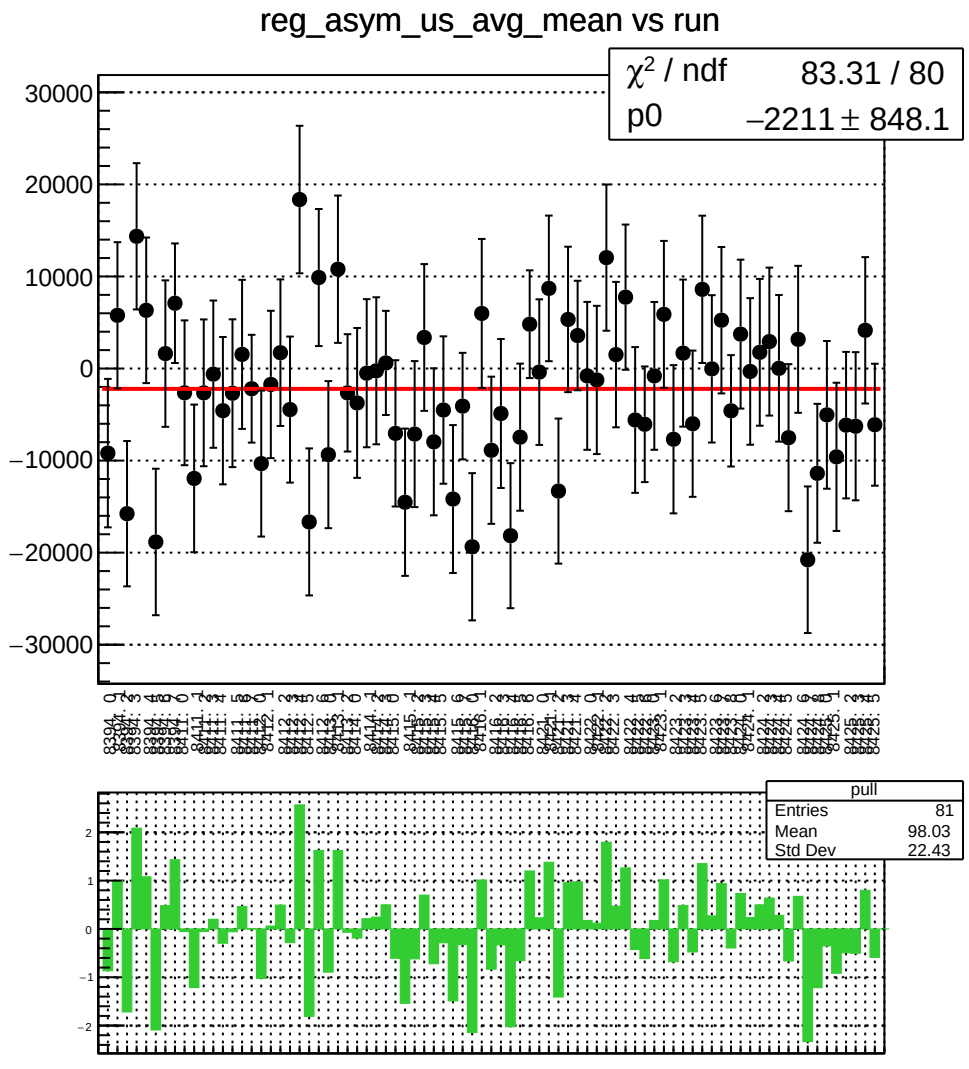
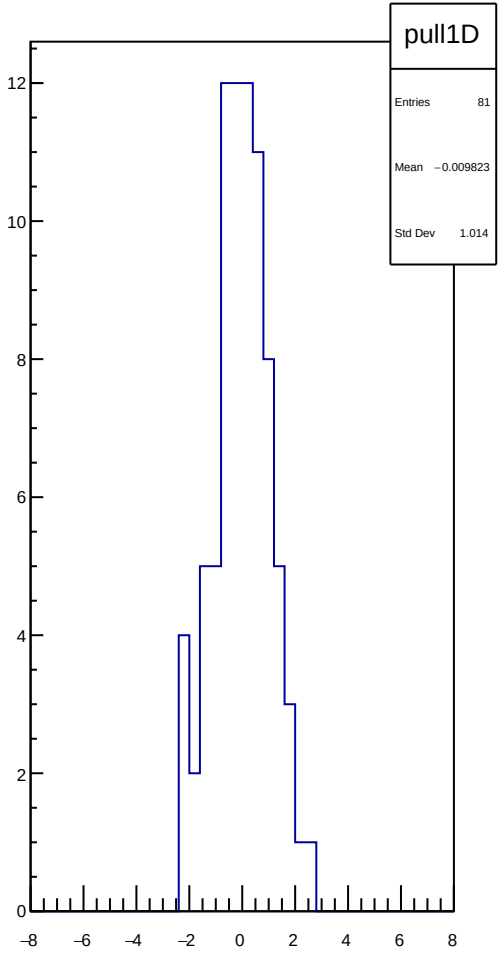
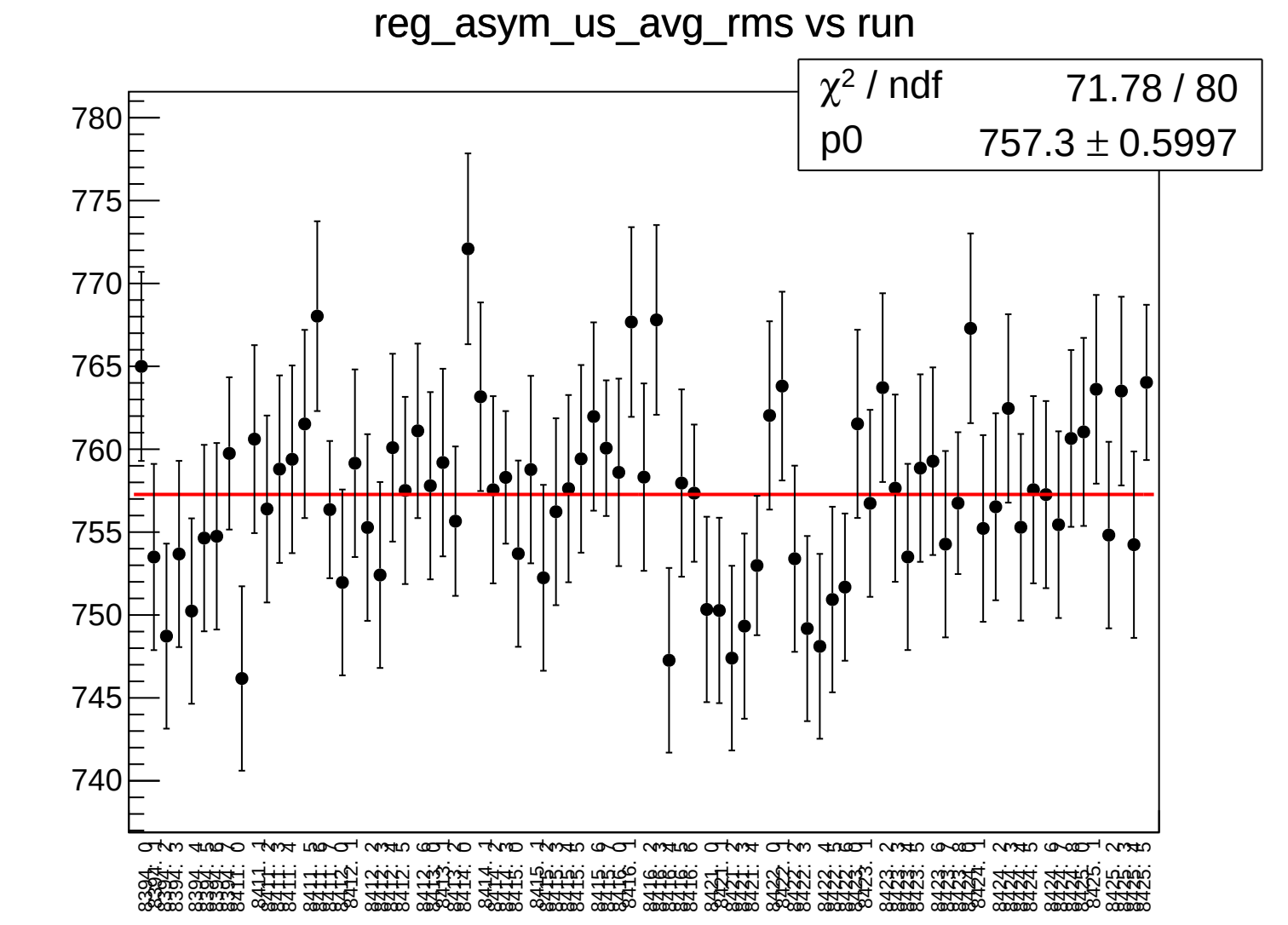
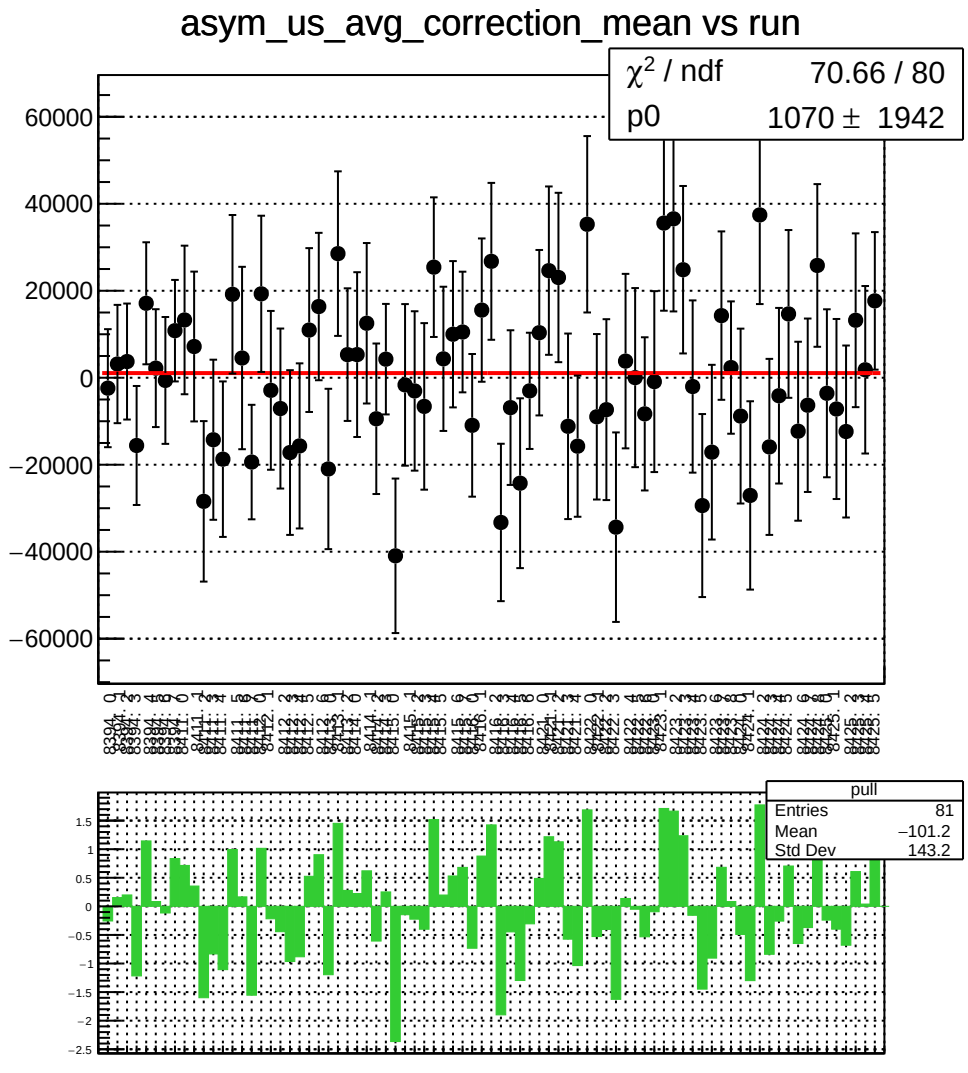
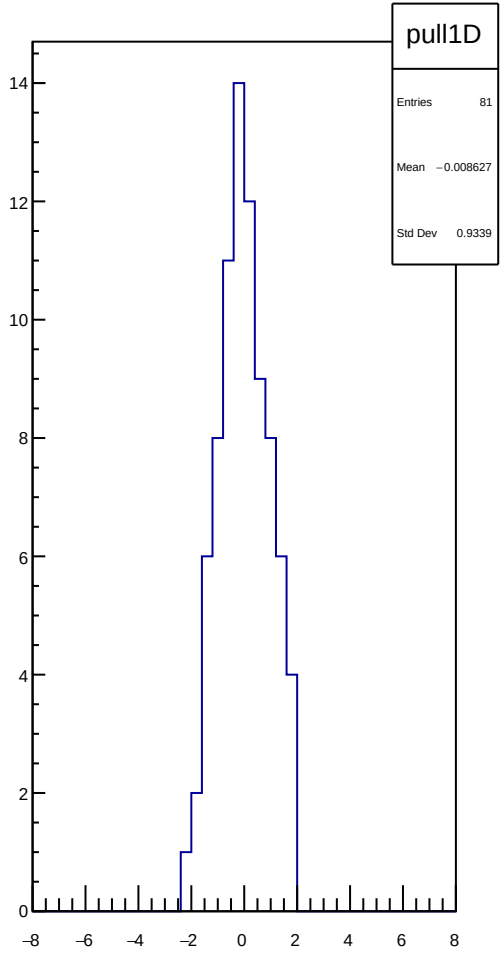
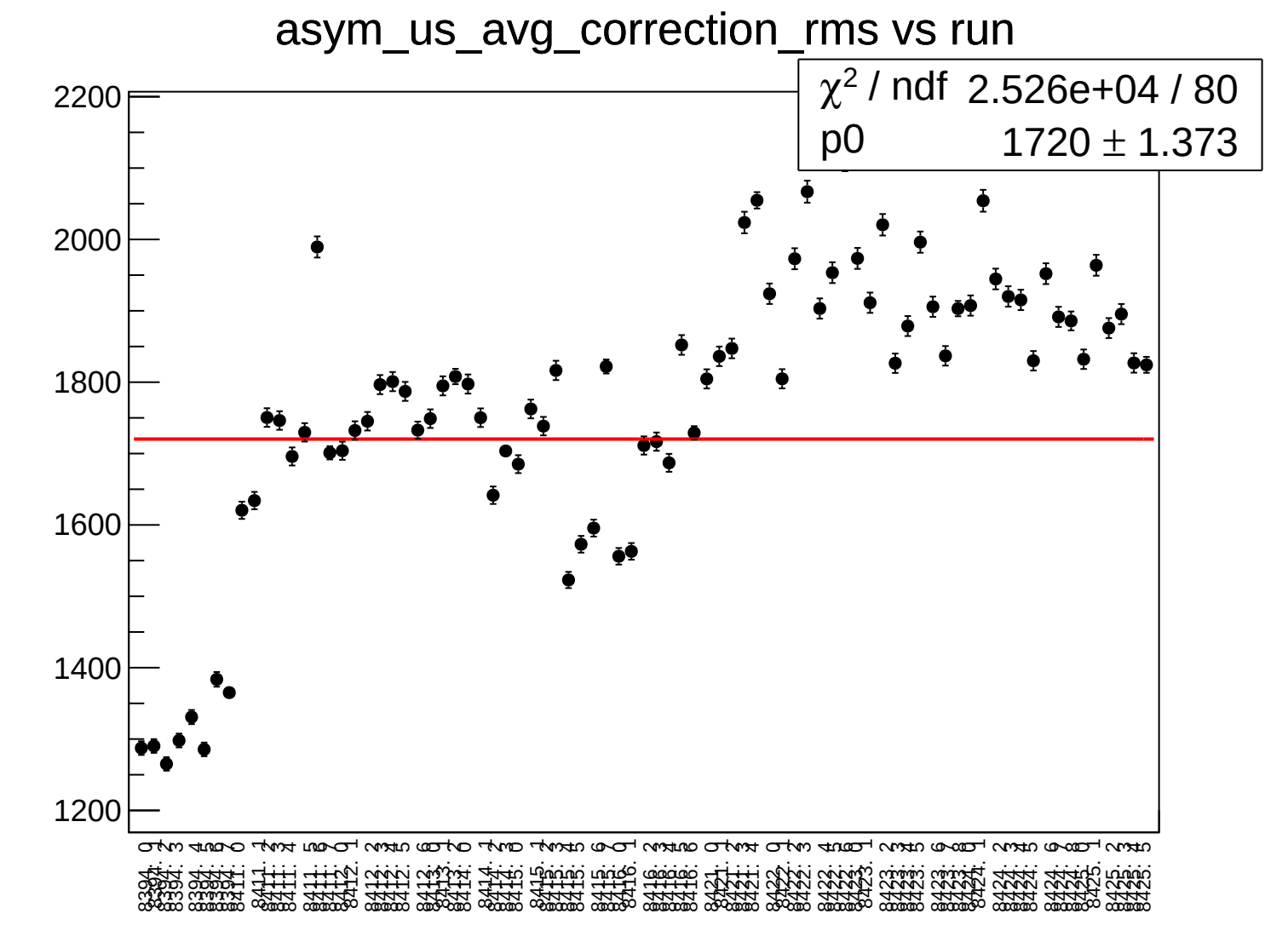

reg_asym_us_avg_mean vs run
χ² / ndf 83.31 / 80
p0 −2211 ± 848.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 98.03
Std Dev 22.43
2
1
0
−1
−2

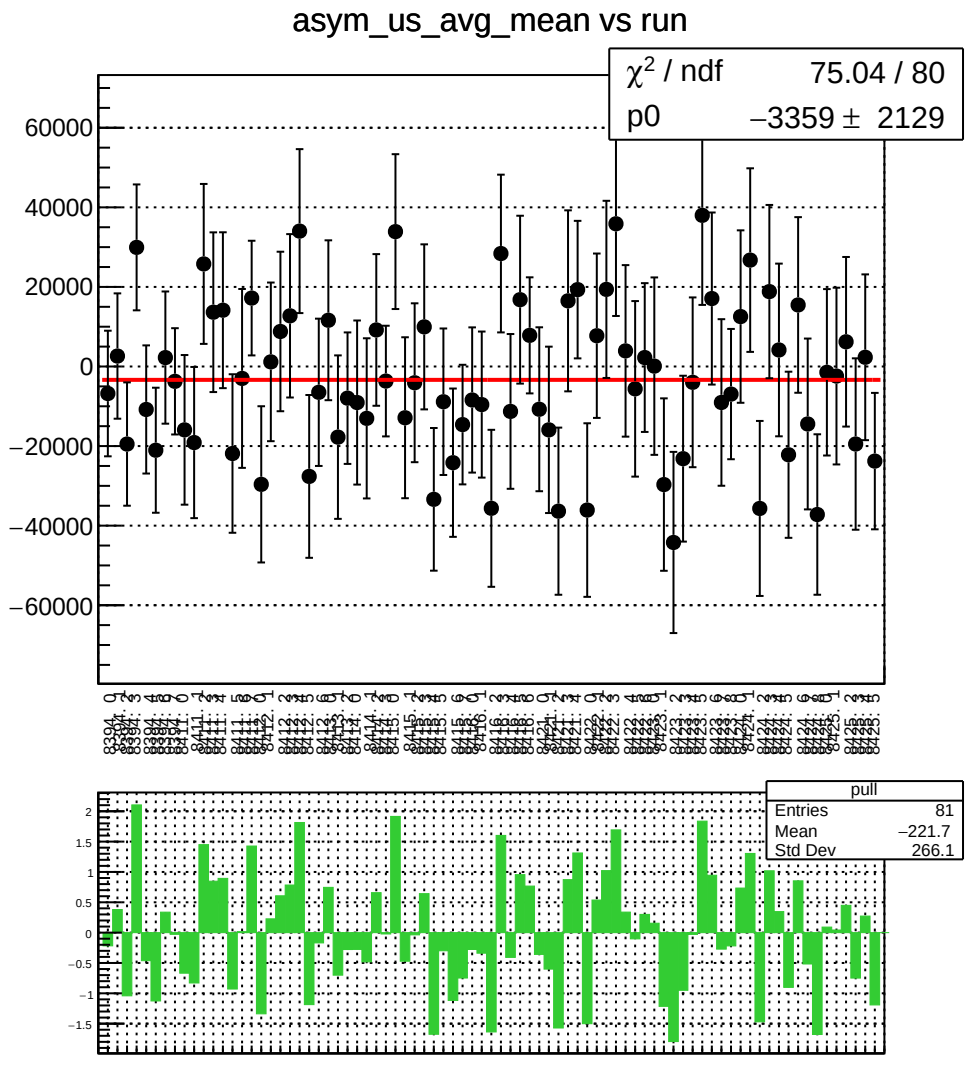

pull1D
Entries 81
Mean −0.009823
Std Dev 1.014
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

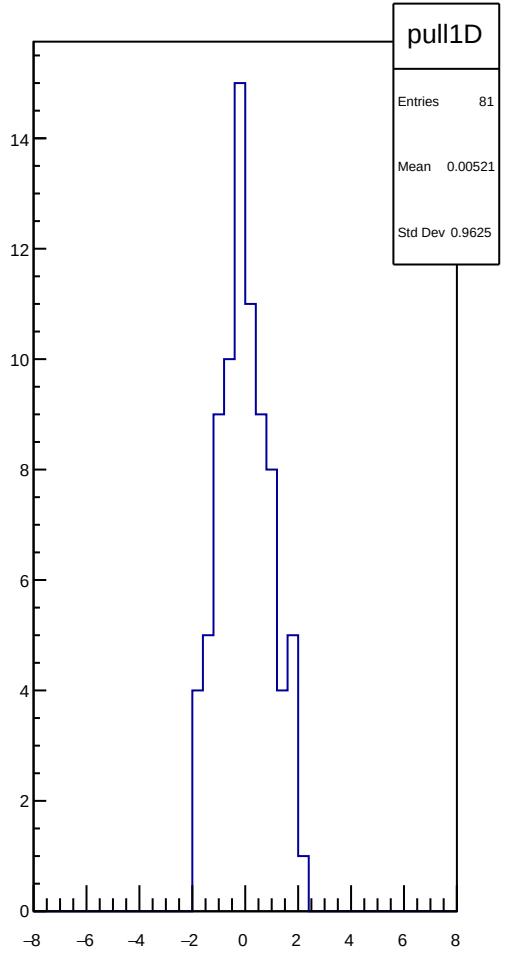

reg_asym_us_avg_rms vs run
χ^2 / ndf 71.78 / 80
p0 757.3 ± 0.5997
780
775
770
765
760
755
750
745
740

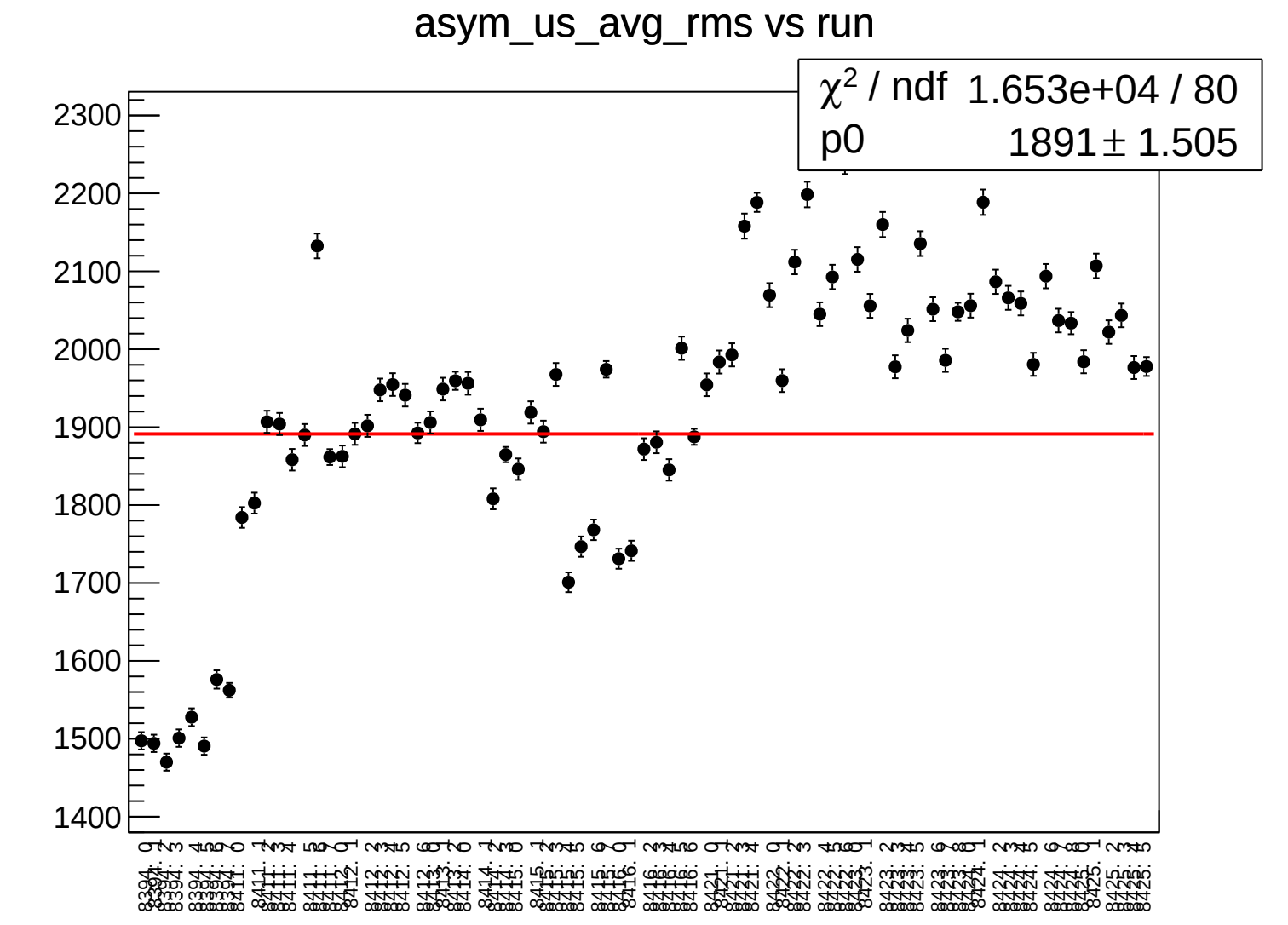

asym_us_avg_correction_mean vs run
χ² / ndf 70.66 / 80
p0 1070 ± 1942
pull
Entries 81
Mean −101.2
Std Dev 143.2

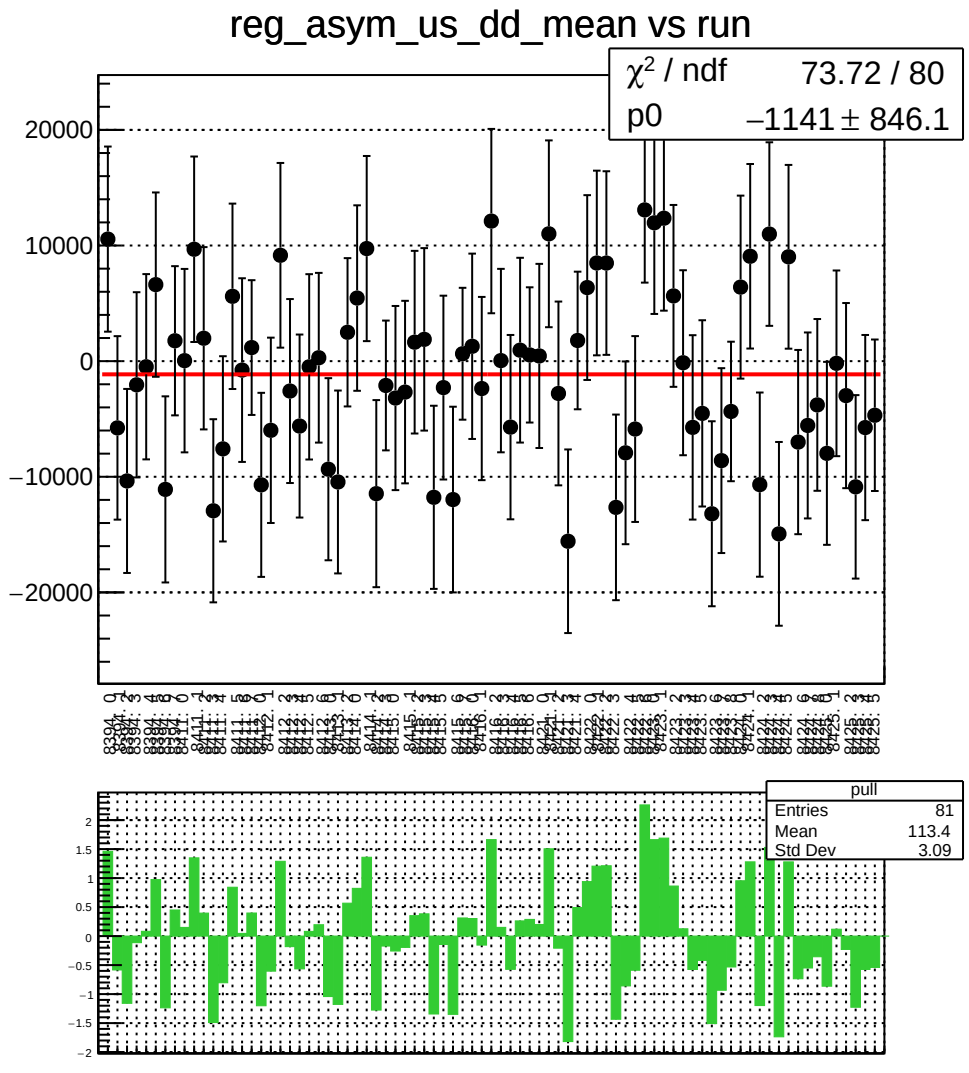

pull1D
Entries 81
Mean −0.008627
Std Dev 0.9339

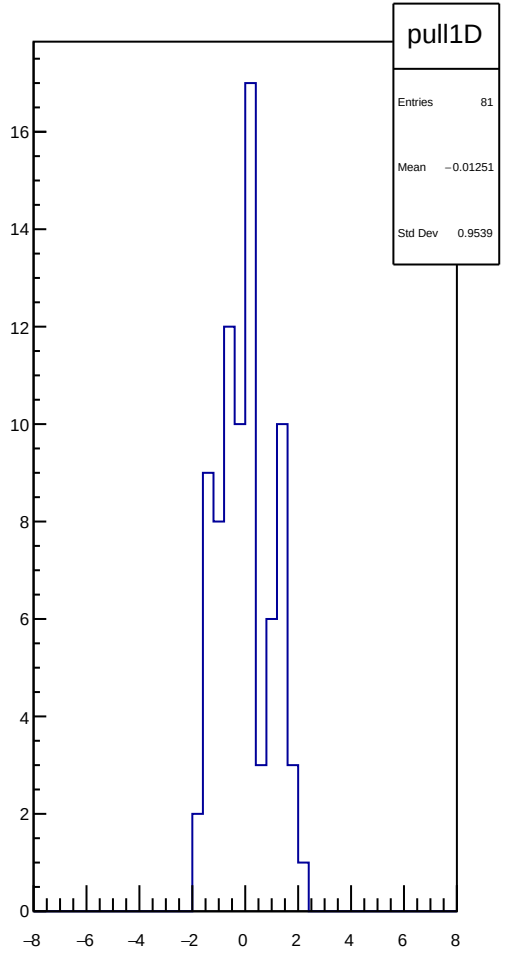

asym_us_avg_correction_rms vs run
χ² / ndf 2.526e+04 / 80
p0 1720 ± 1.373
2200
2000
1800
1600
1400
1200

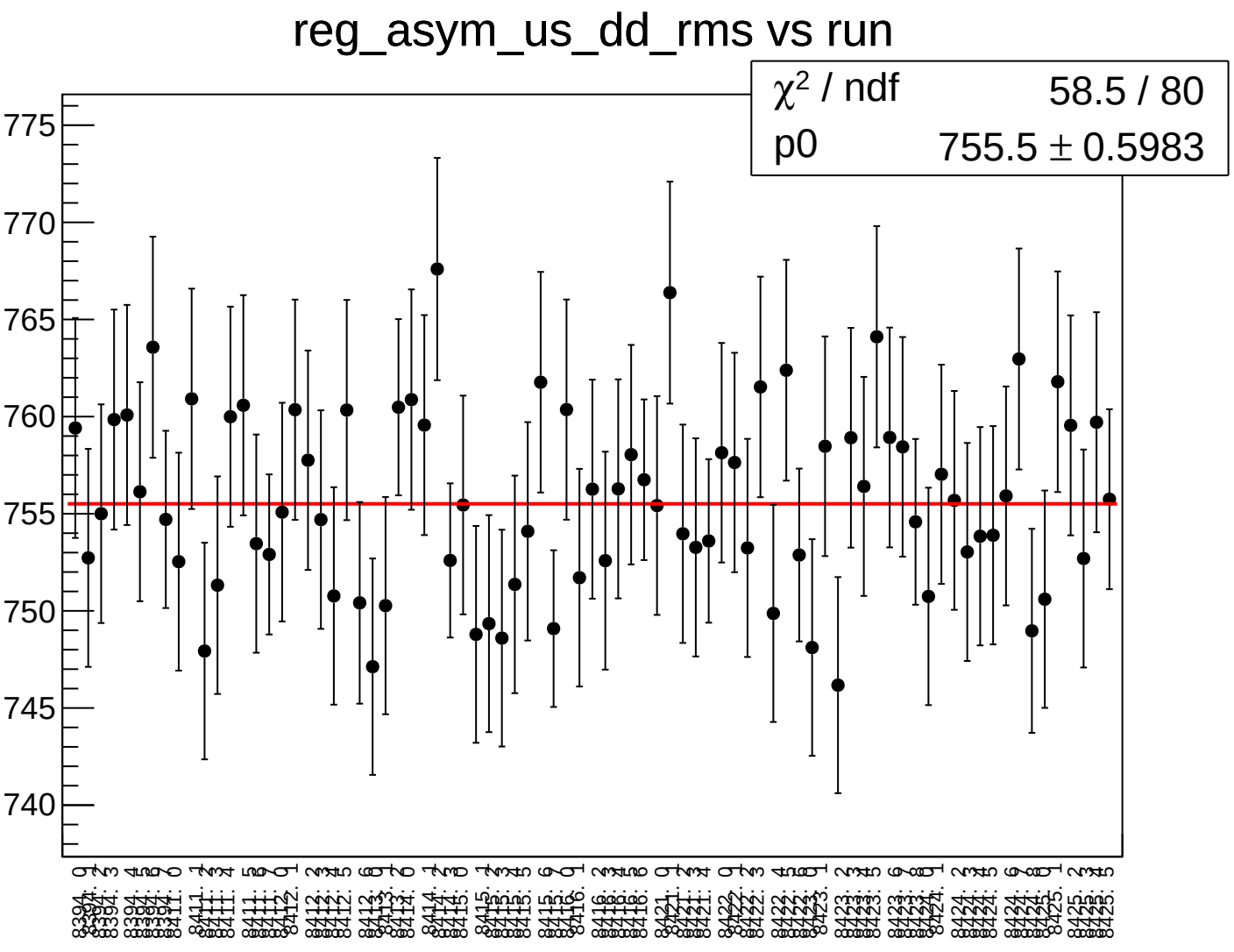

asym_us_avg_mean vs run
χ² / ndf 75.04 / 80
p0 −3359 ± 2129
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −221.7
Std Dev 266.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

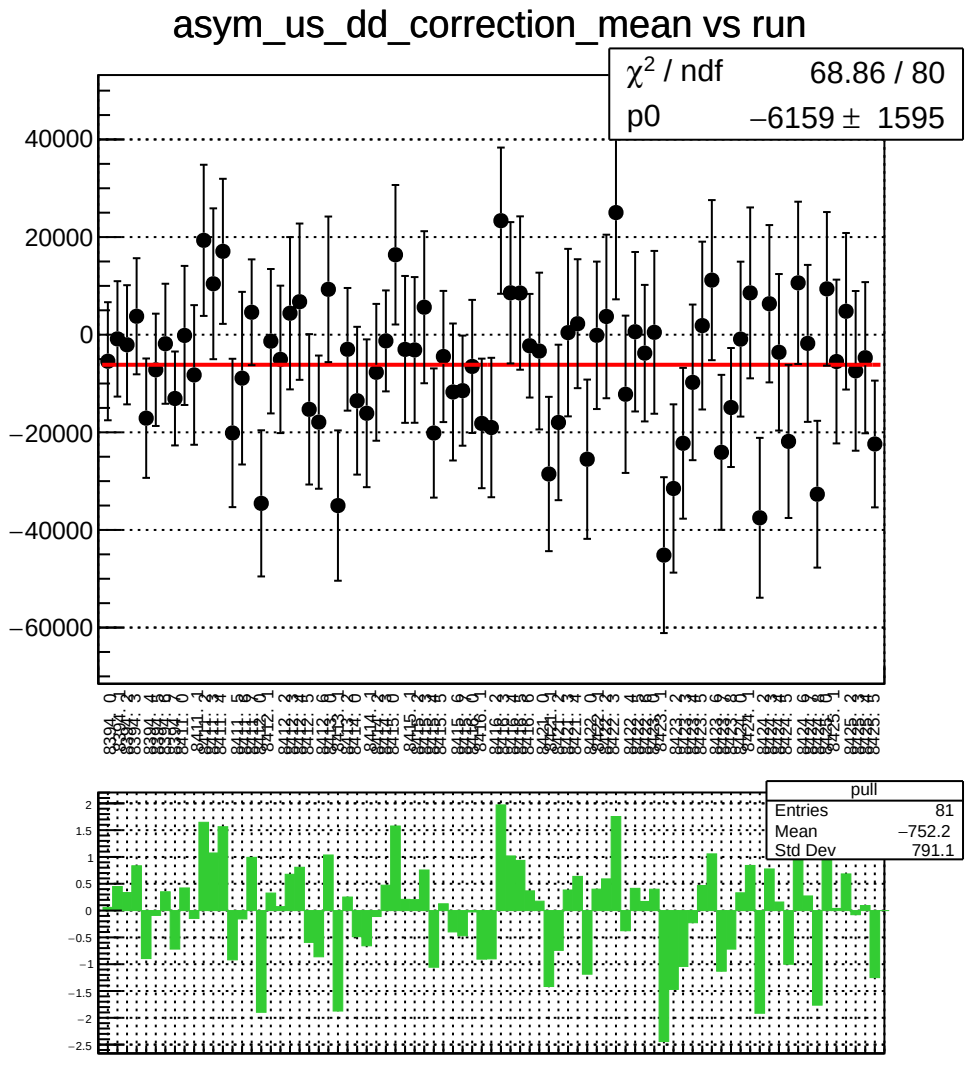

pull1D
Entries 81
Mean 0.00521
Std Dev 0.9625
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

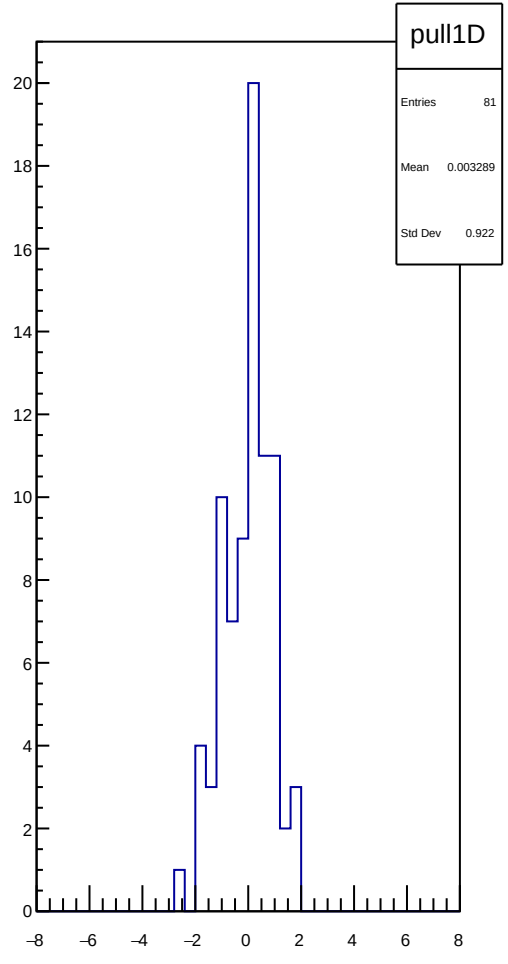

asym_us_avg_rms vs run
χ² / ndf 1.653e+04 / 80
p0 1891 ± 1.505
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

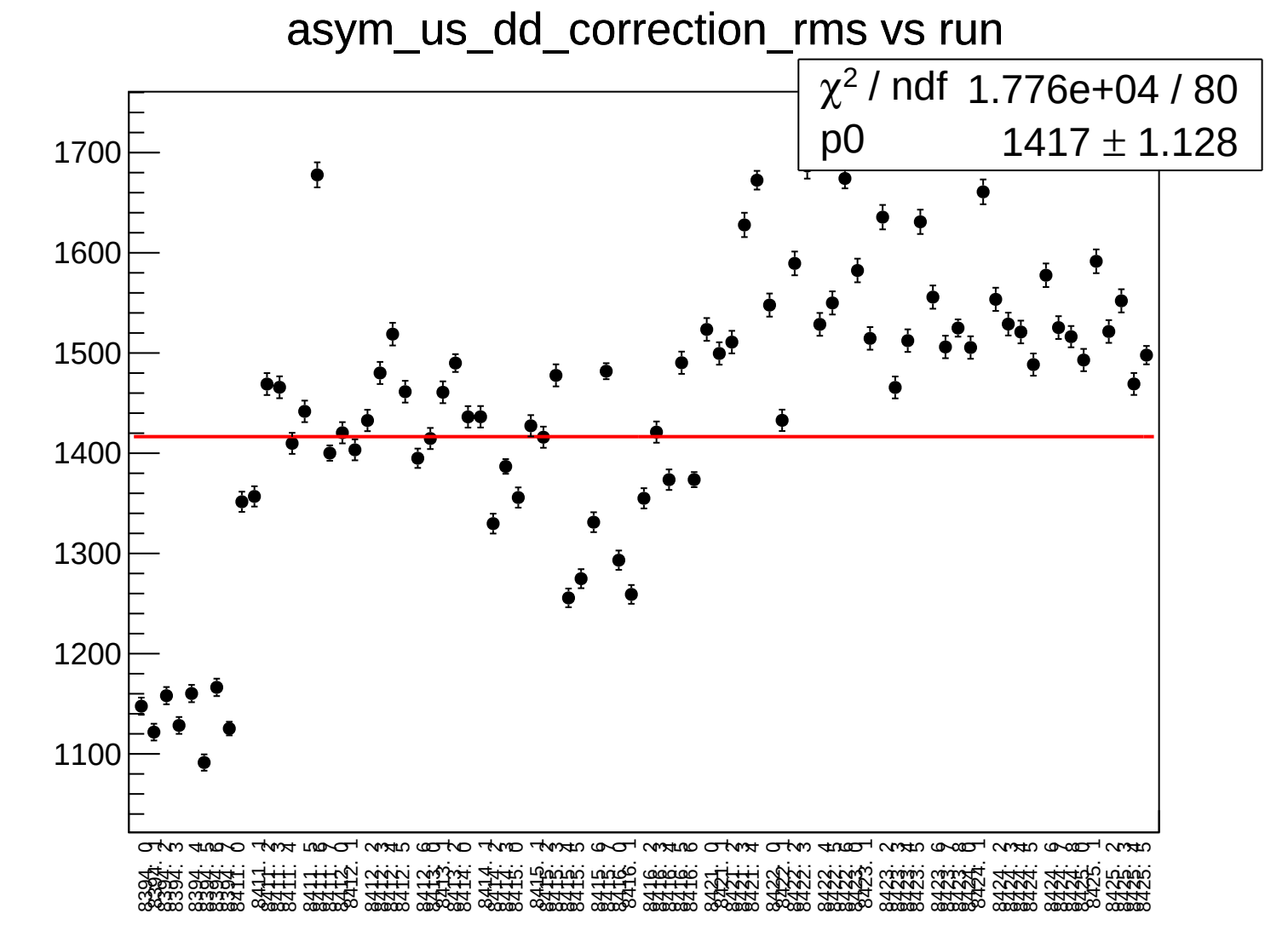

reg_asym_us_dd_mean vs run
χ² / ndf 73.72 / 80
p0 −1141 ± 846.1
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 113.4
Std Dev 3.09
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

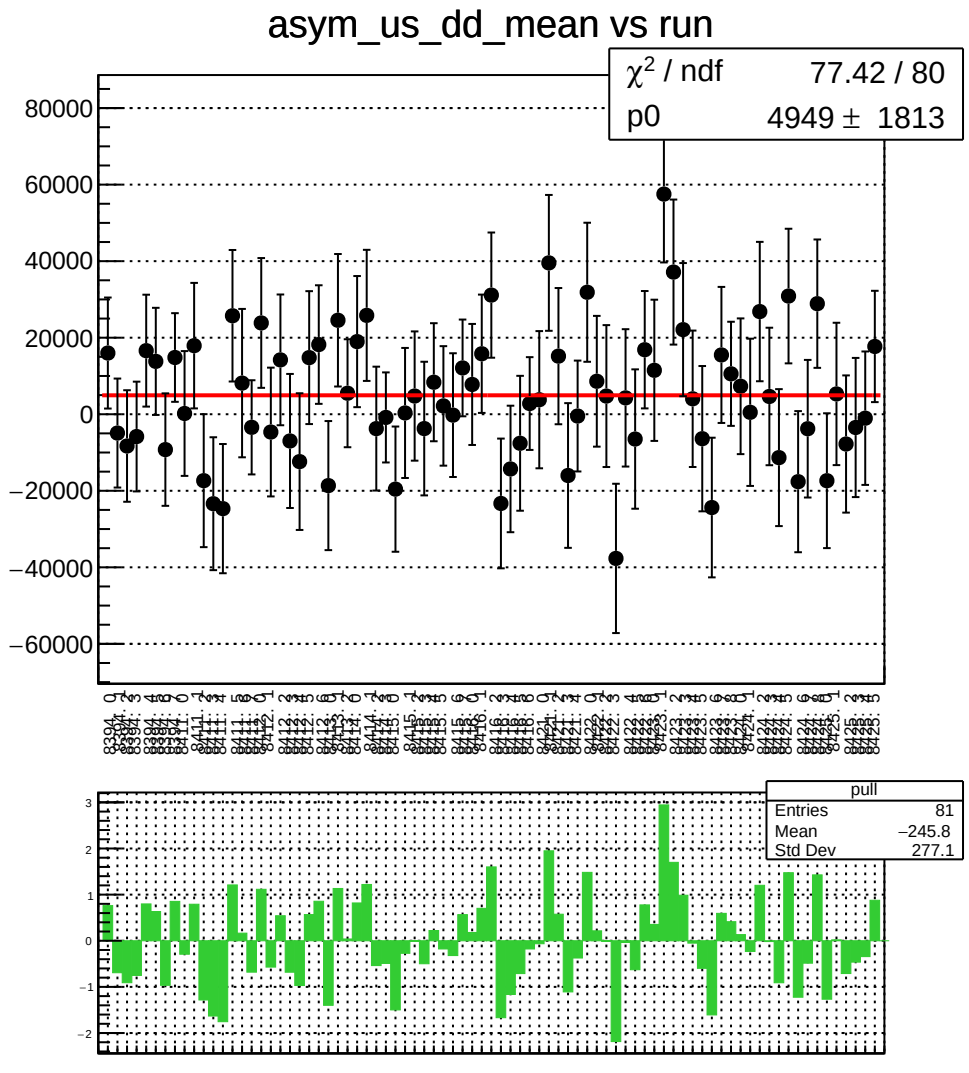

pull1D
Entries 81
Mean −0.01251
Std Dev 0.9539
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

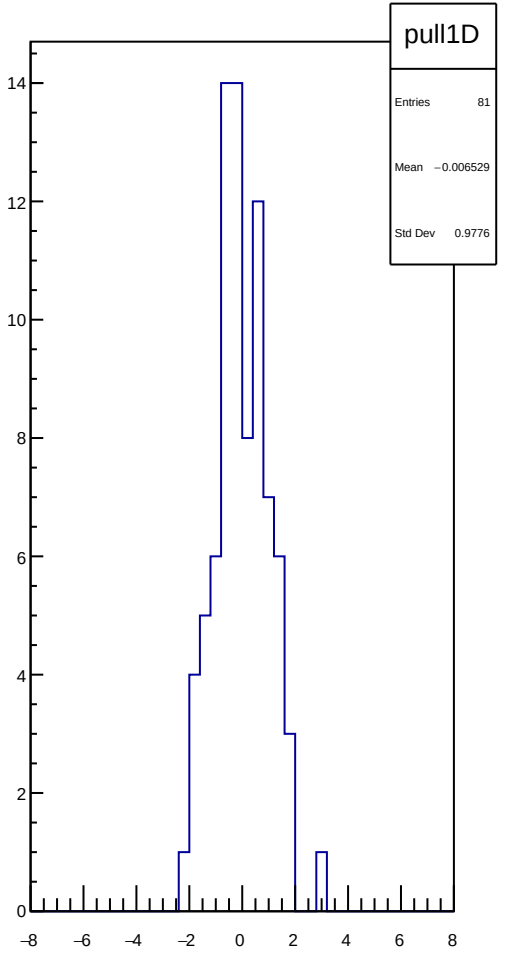

reg_asym_us_dd_rms vs run
χ² / ndf 58.5 / 80
p0 755.5 ± 0.5983
775
770
765
760
755
750
745
740

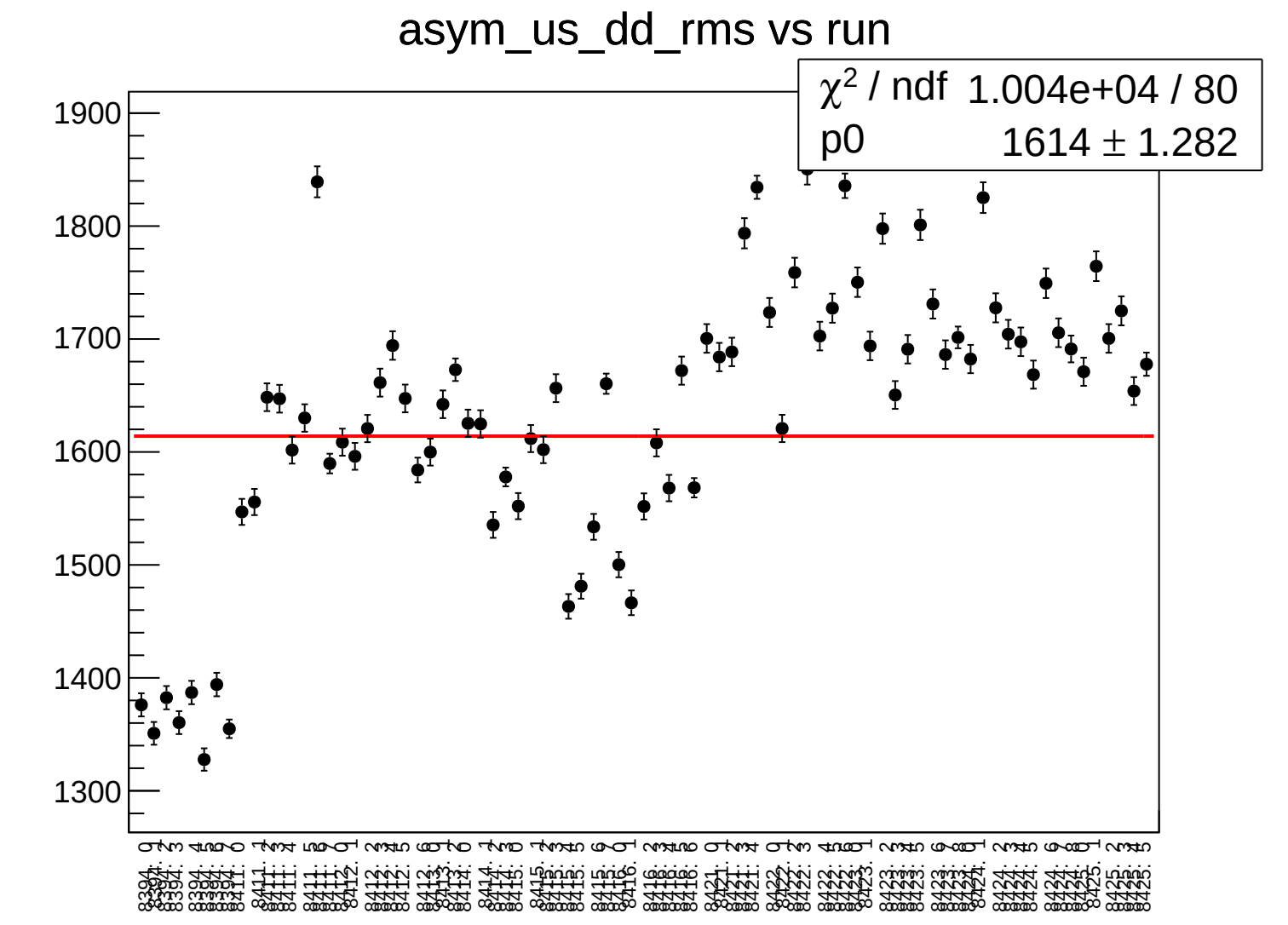

asym_us_dd_correction_mean vs run
χ² / ndf 68.86 / 80
p0 −6159 ± 1595
pull
Entries 81
Mean −752.2
Std Dev 791.1

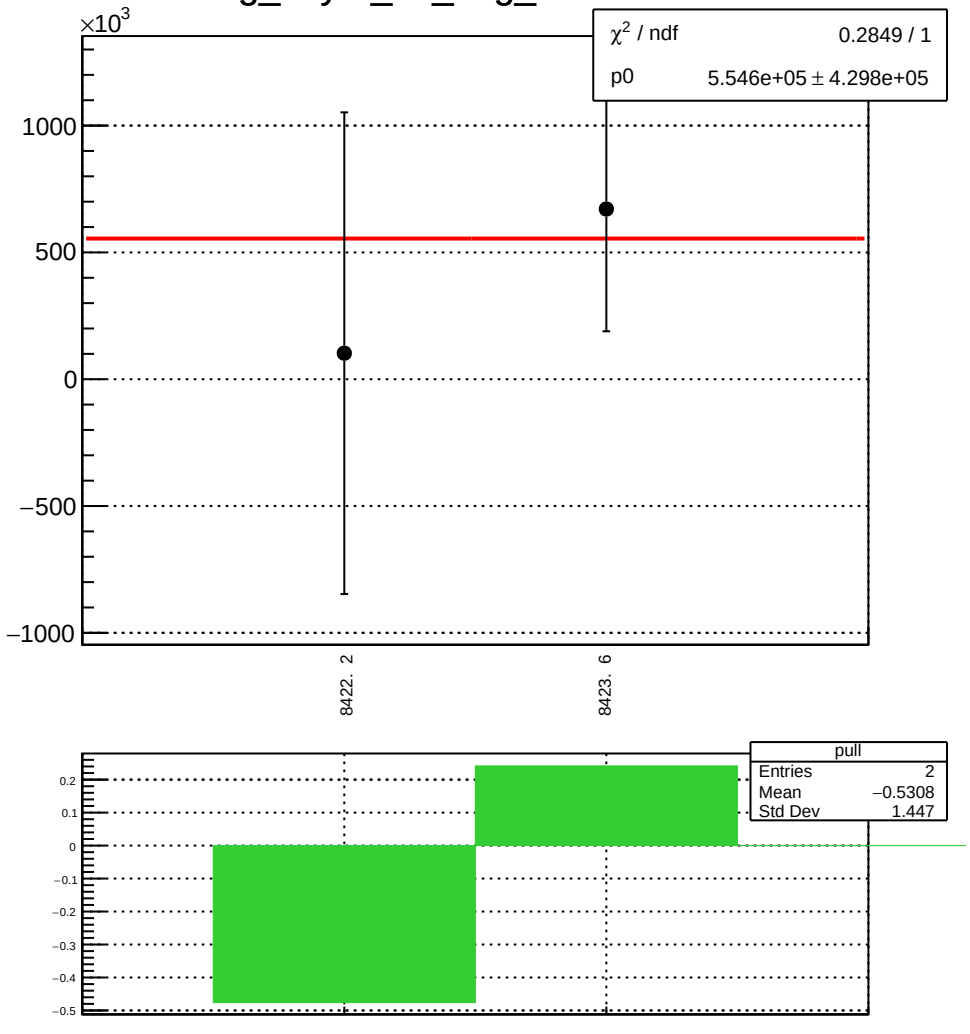

pull1D
Entries 81
Mean 0.003289
Std Dev 0.922

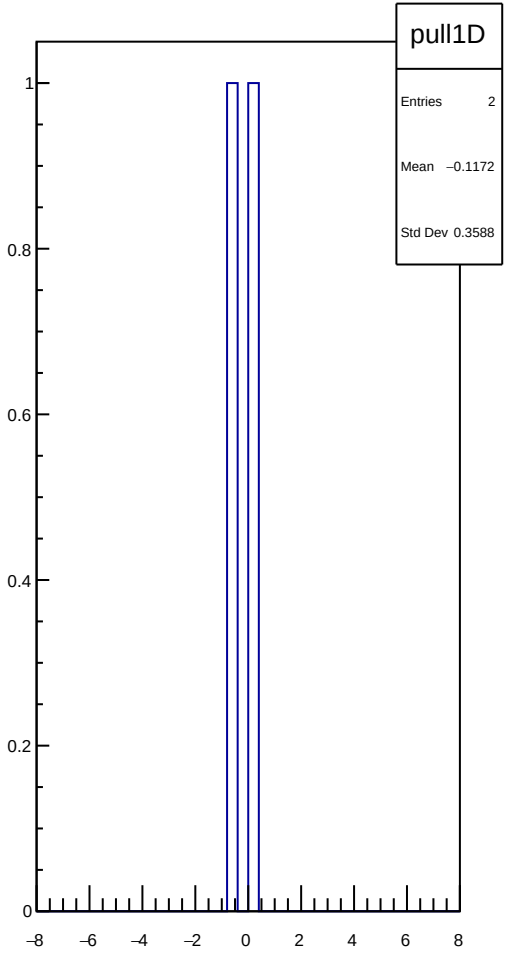

asym_us_dd_correction_rms vs run
χ² / ndf 1.776e+04 / 80
p0 1417 ± 1.128
1700
1600
1500
1400
1300
1200
1100

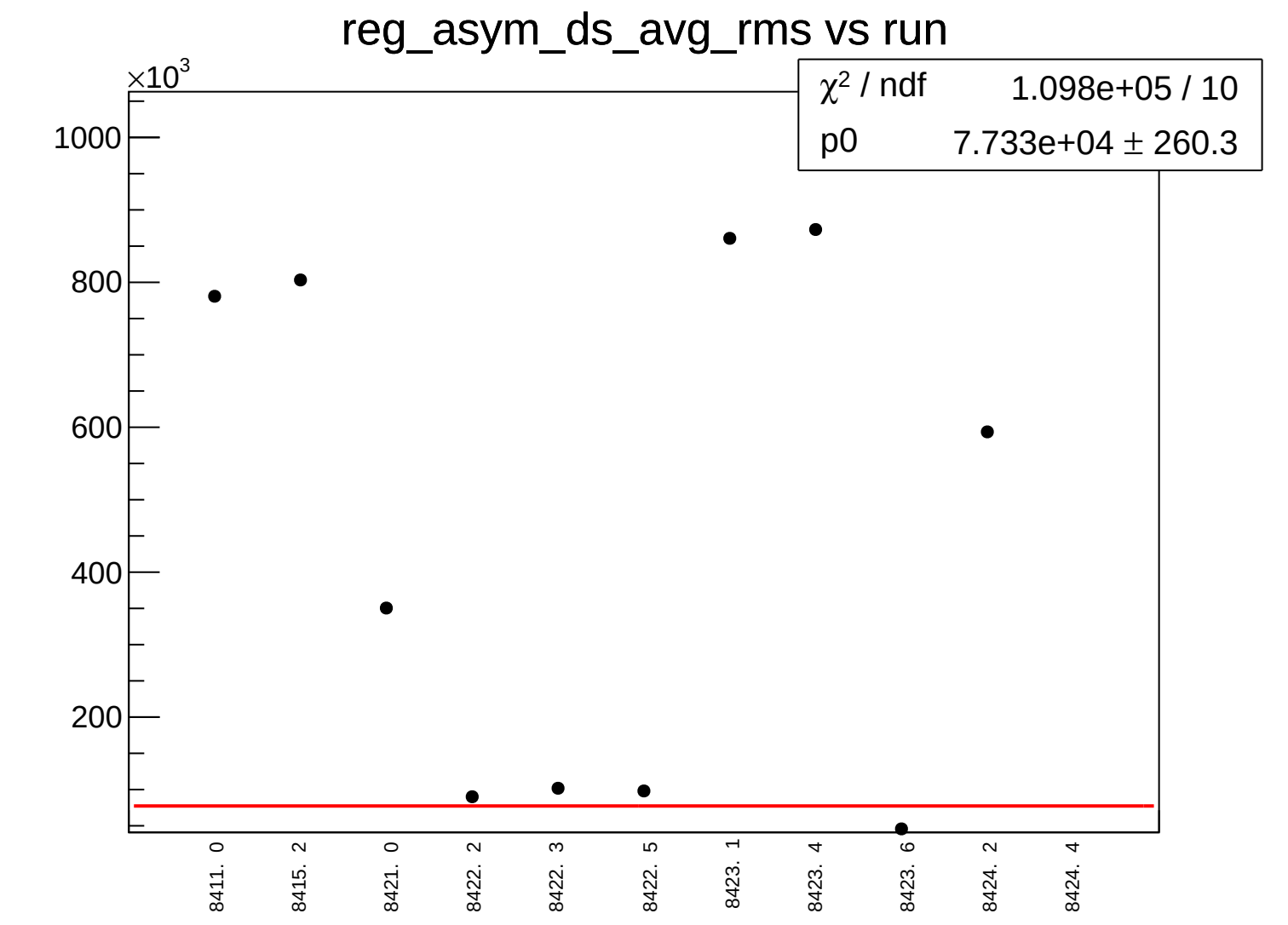

asym_us_dd_mean vs run
χ² / ndf 77.42 / 80
p0 4949 ± 1813
pull
Entries 81
Mean −245.8
Std Dev 277.1

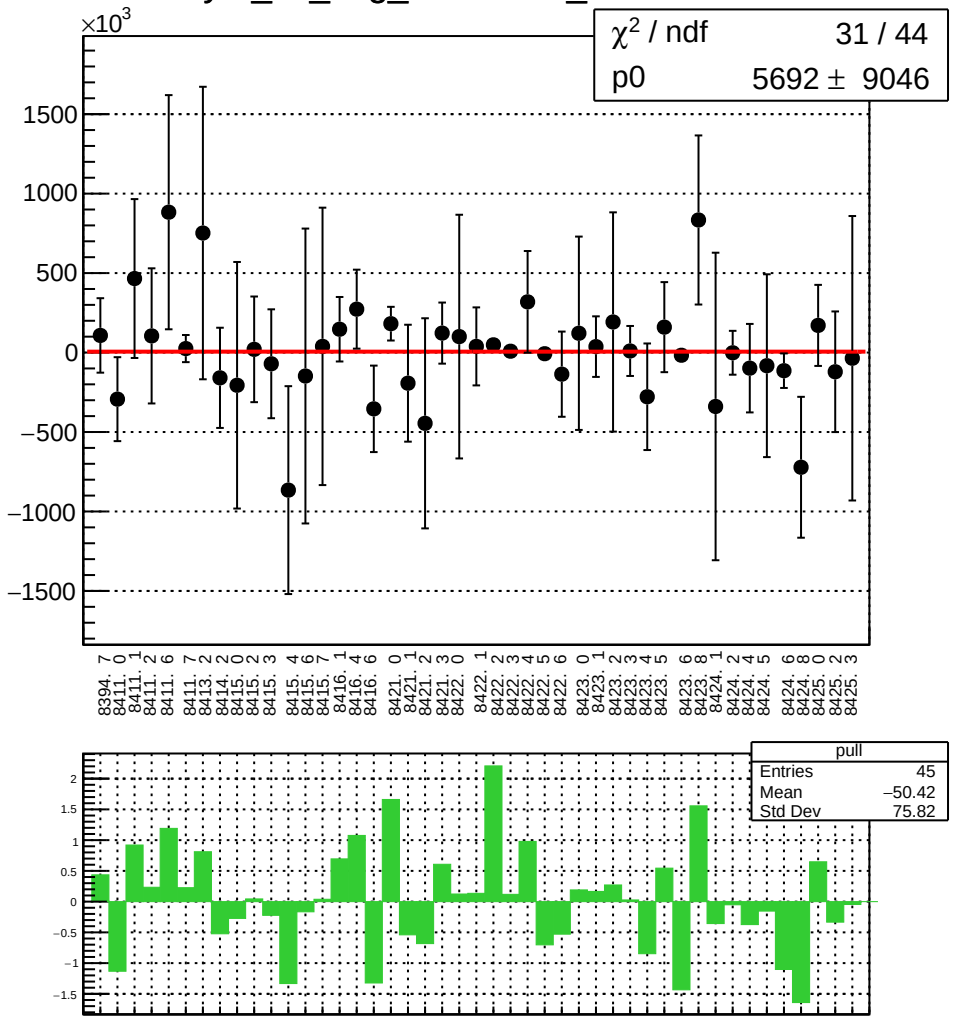

pull1D
Entries 81
Mean −0.006529
Std Dev 0.9776

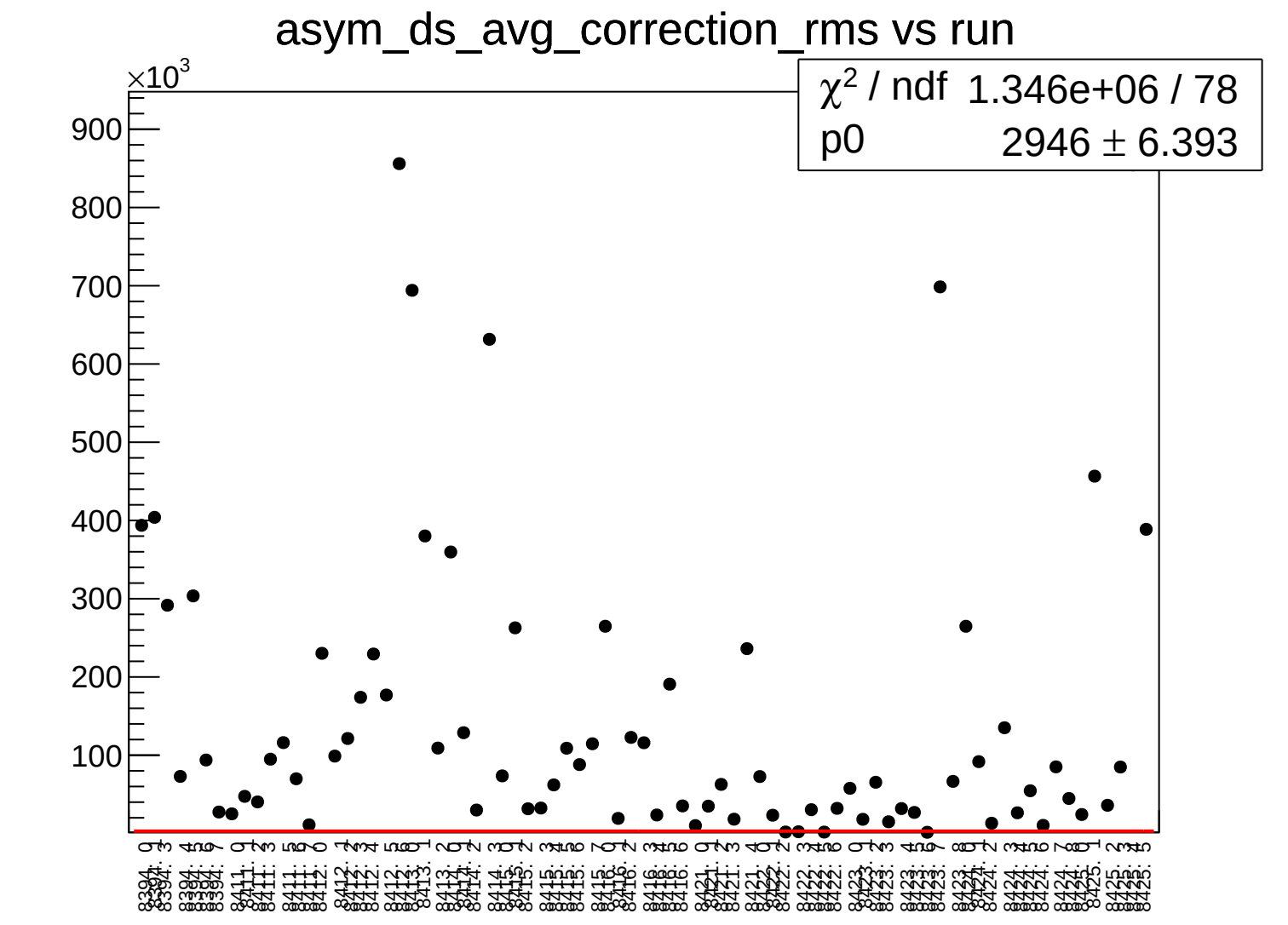

asym_us_dd_rms vs run
χ² / ndf 1.004e+04 / 80
p0 1614 ± 1.282
1900
1800
1700
1600
1500
1400
1300

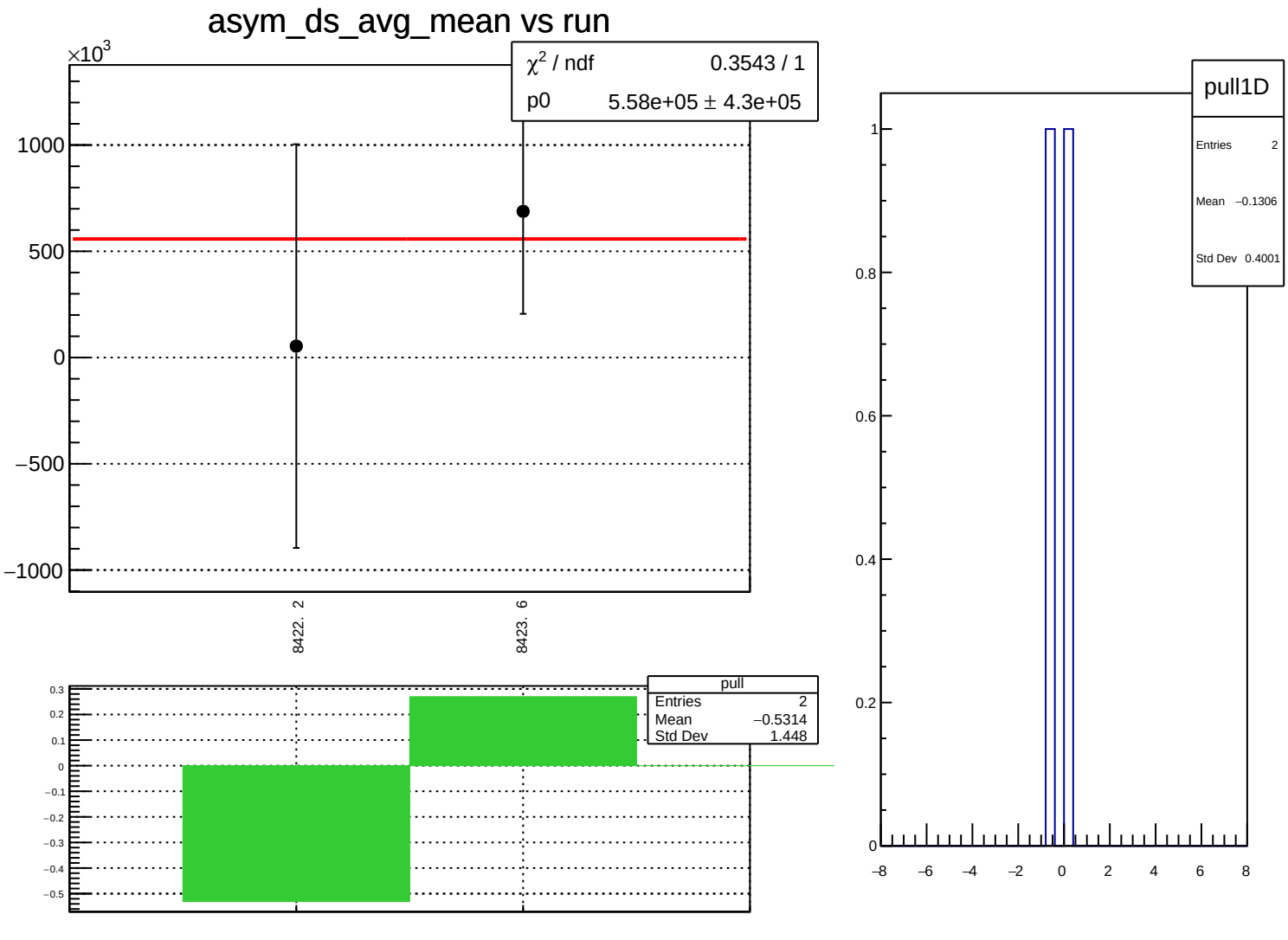

reg_asym_ds_avg_mean vs run
×10^3
χ^2 / ndf 0.2849 / 1
p0 5.546e+05 ± 4.298e+05
1000
500
0
−500
−1000
8422. 2
8423. 6
pull
Entries 2
Mean −0.5308
Std Dev 1.447
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

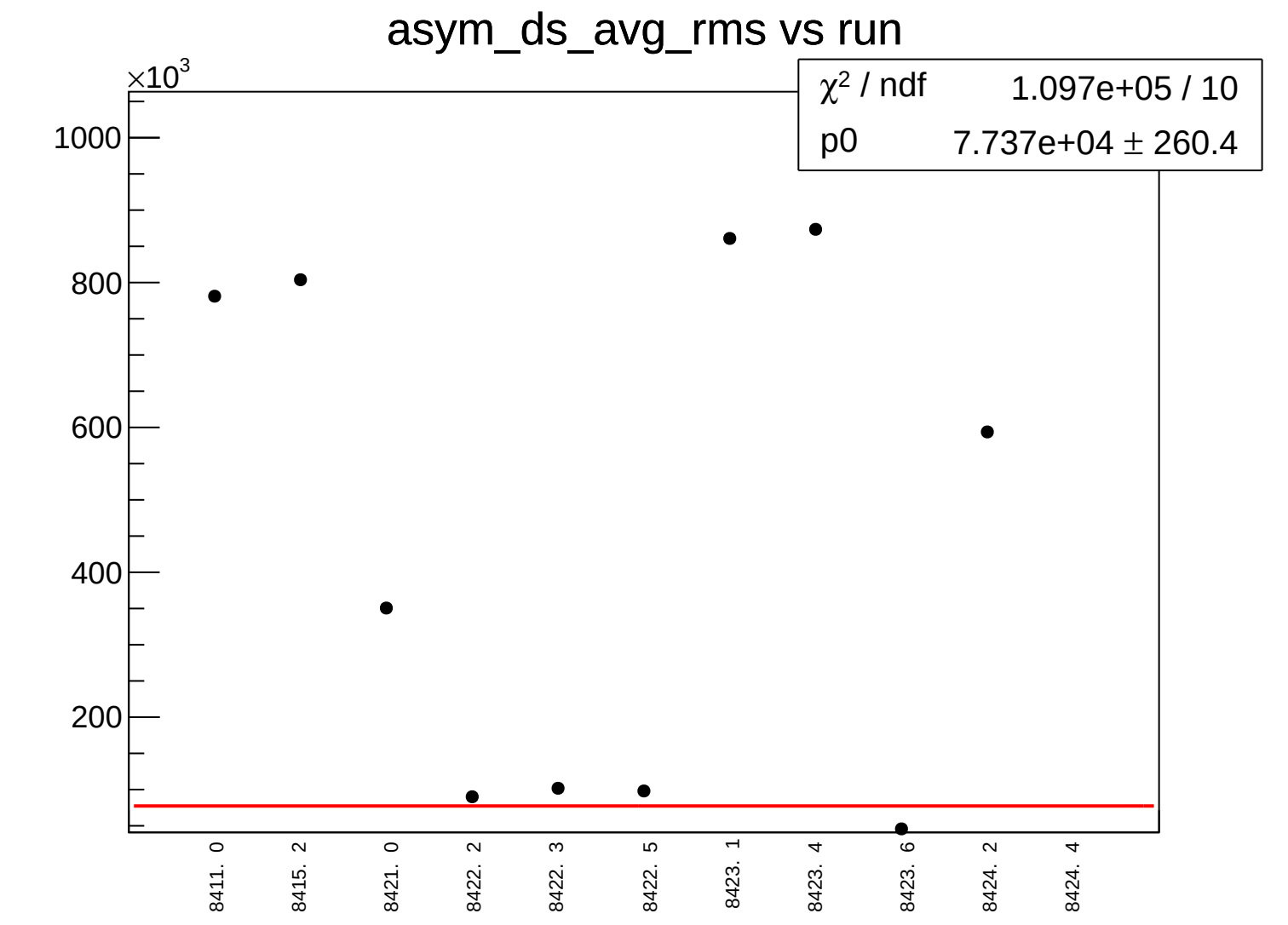

pull1D
Entries 2
Mean −0.1172
Std Dev 0.3588
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

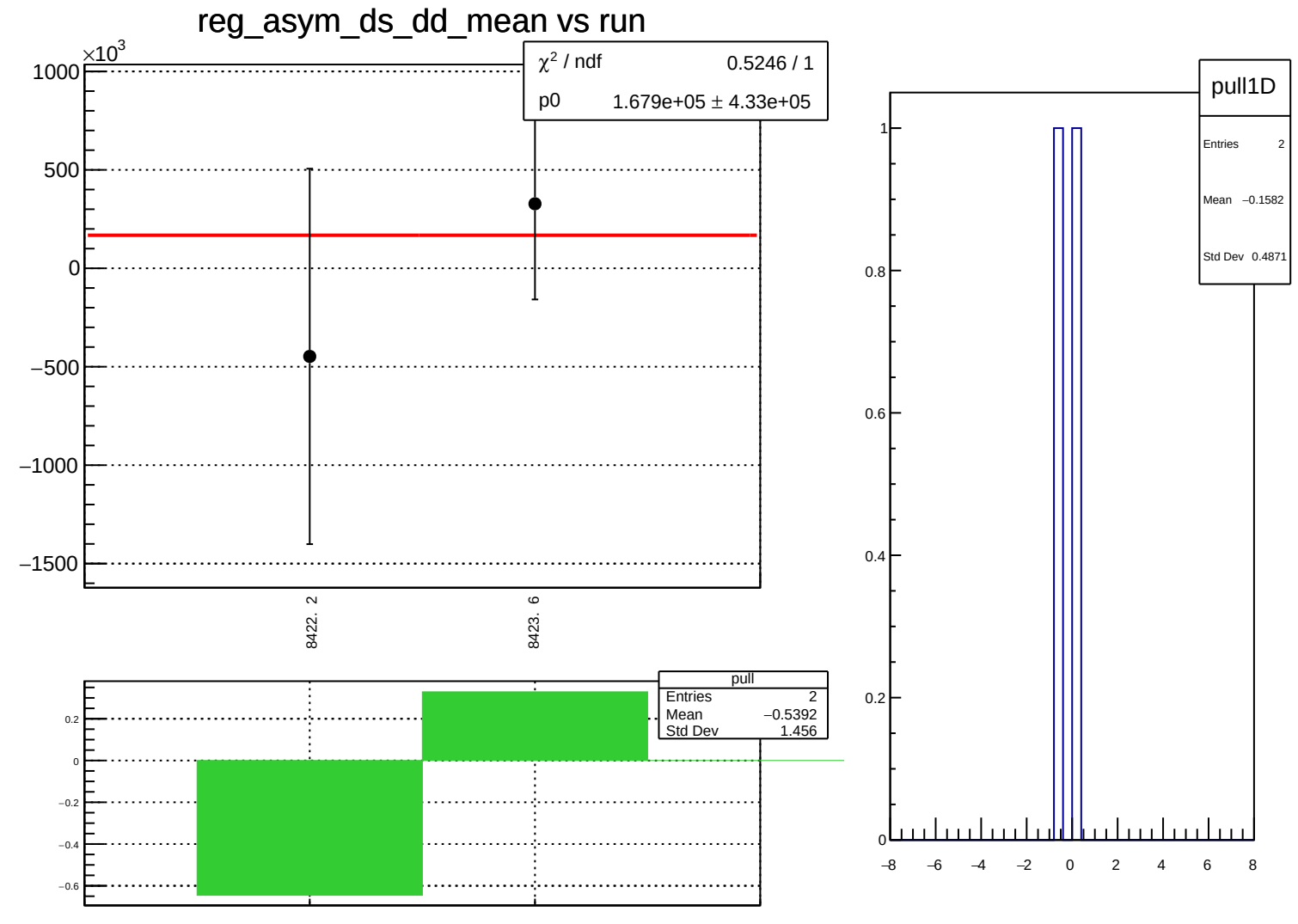

reg_asym_ds_avg_rms vs run
×10^3
χ^2 / ndf 1.098e+05 / 10
p0 7.733e+04 ± 260.3
1000
800
600
400
200
8411. 0
8415. 2
8421. 0
8422. 2
8422. 3
8422. 5
8423. 1
8423. 4
8423. 6
8424. 2
8424. 4

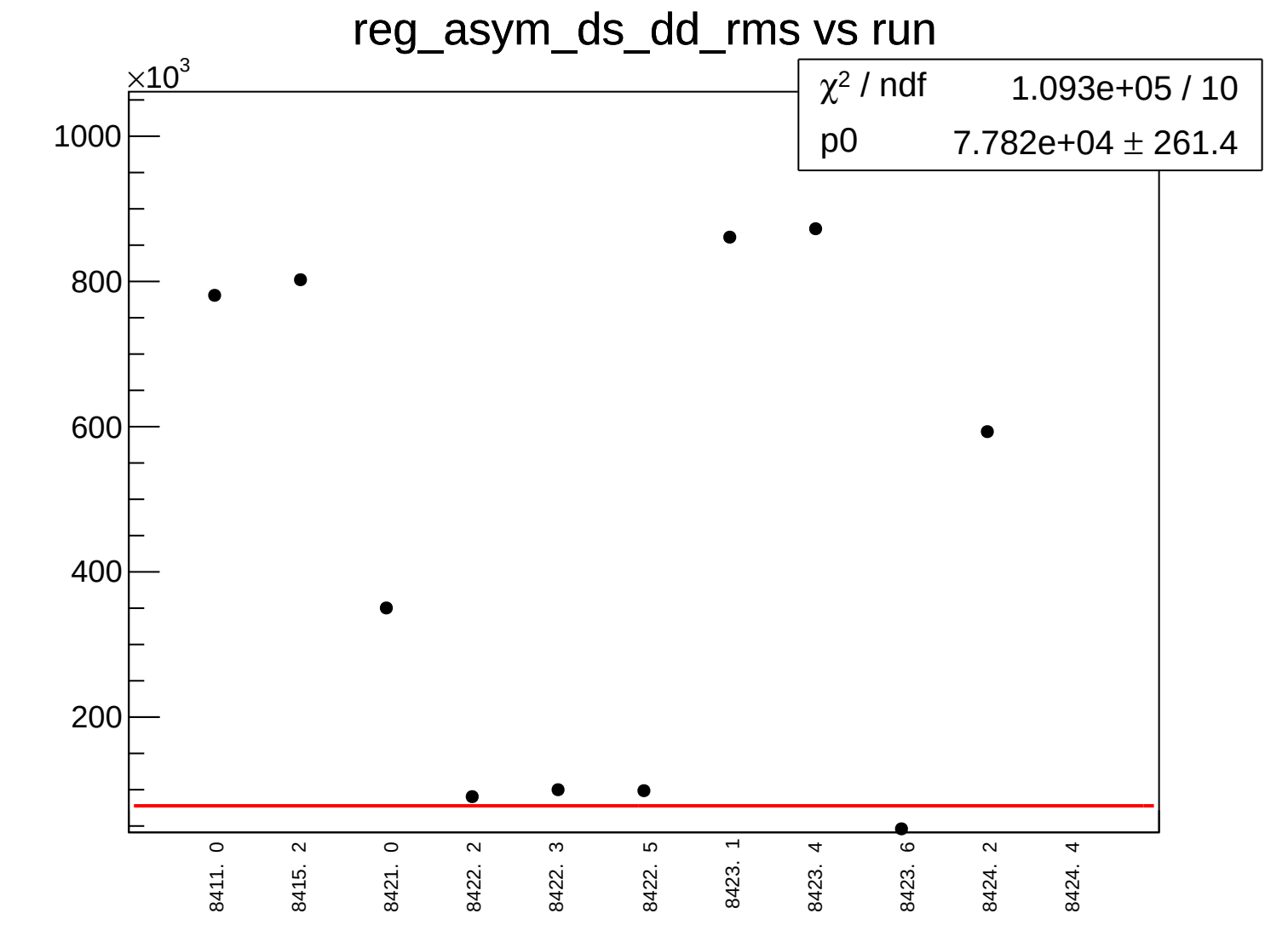

asym_ds_avg_correction_mean vs run
χ² / ndf 31 / 44
p0 5692 ± 9046
×10³
1500
1000
500
0
−500
−1000
−1500
8394. 7
8411. 0
8411. 1
8411. 2
8411. 6
8411. 7
8413. 2
8414. 2
8415. 0
8415. 2
8415. 3
8415. 4
8415. 6
8415. 7
8416. 1
8416. 4
8416. 6
8421. 0
8421. 1
8421. 2
8421. 3
8422. 0
8422. 1
8422. 2
8422. 3
8422. 4
8422. 5
8422. 6
8423. 0
8423. 1
8423. 2
8423. 3
8423. 4
8423. 5
8423. 6
8423. 8
8424. 1
8424. 2
8424. 4
8424. 5
8424. 6
8424. 8
8425. 0
8425. 2
8425. 3
pull
Entries 45
Mean −50.42
Std Dev 75.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.02531
Std Dev 0.8295
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

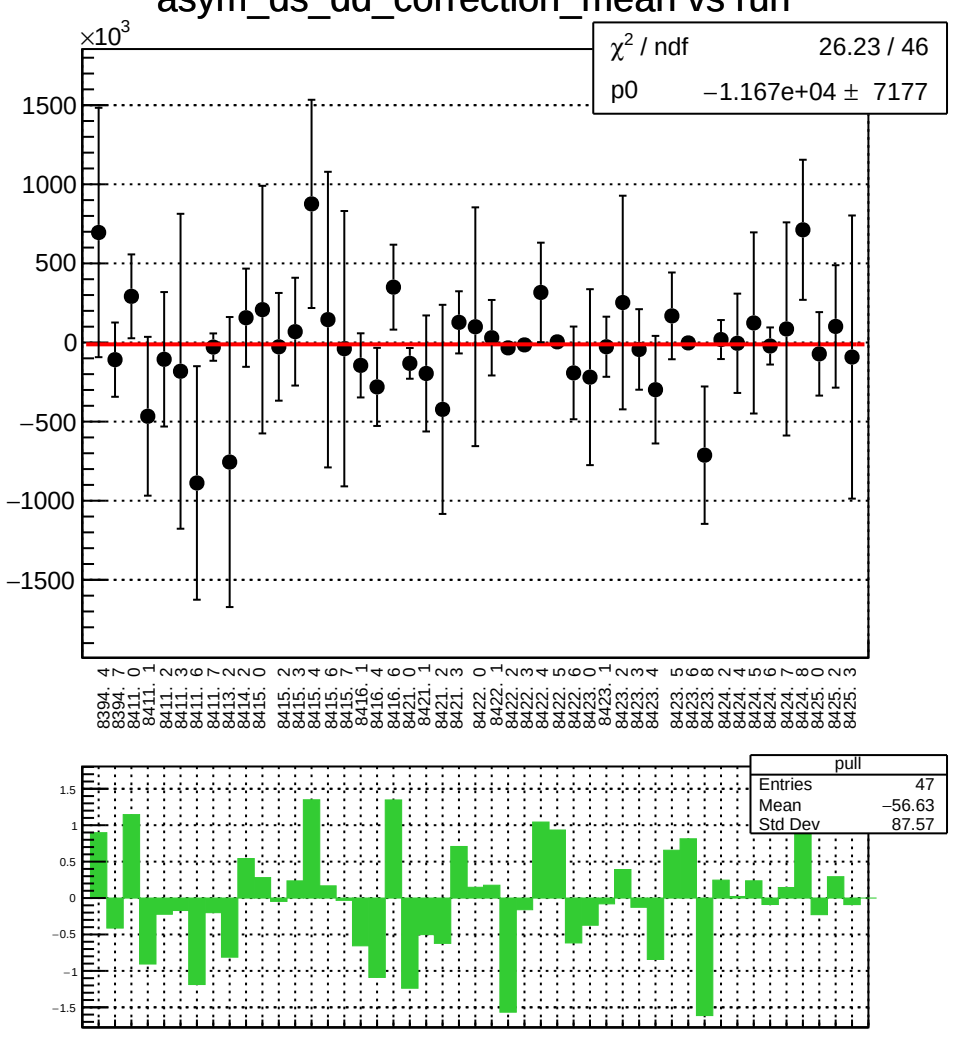

asym_ds_avg_correction_rms vs run
×10^3
χ² / ndf 1.346e+06 / 78
p0 2946 ± 6.393
900
800
700
600
500
400
300
200
100

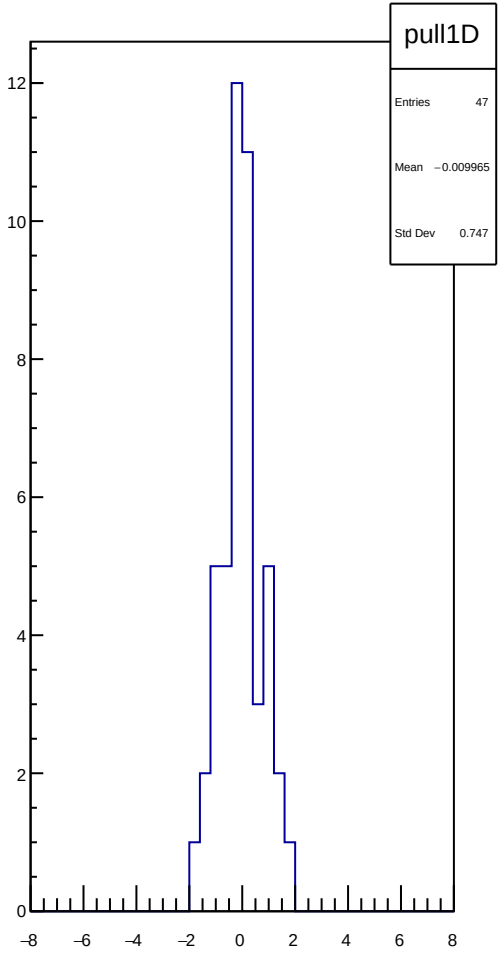

asym_ds_avg_mean vs run
×10^3
χ² / ndf 0.3543 / 1
p0 5.58e+05 ± 4.3e+05
1000
500
0
−500
−1000
8422. 2
8423. 6
pull
Entries 2
Mean −0.5314
Std Dev 1.448
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 2
Mean −0.1306
Std Dev 0.4001
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

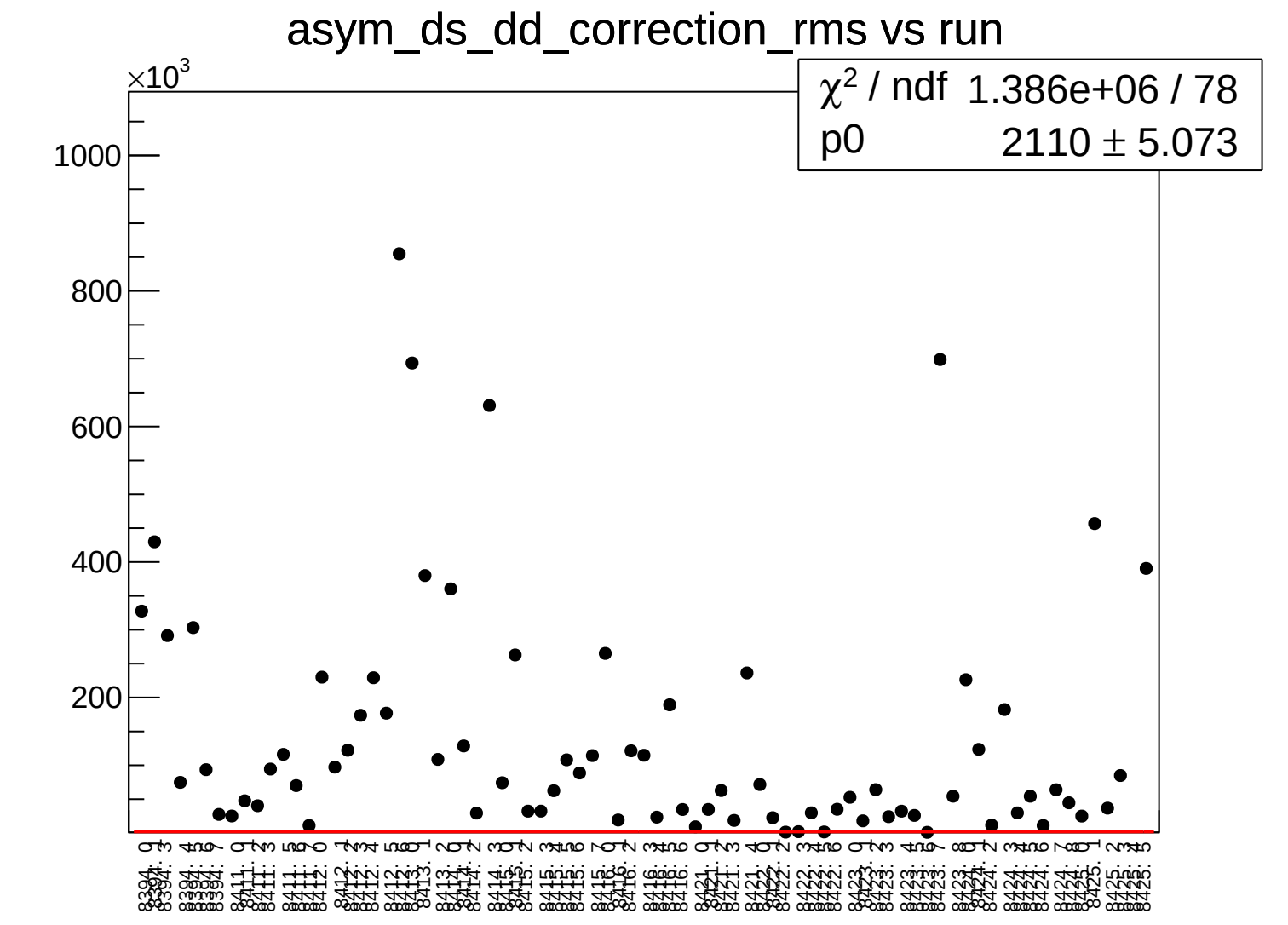

asym_ds_avg_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.097e+05 / 10
p0 7.737e+04 ± 260.4
8411. 0
8415. 2
8421. 0
8422. 2
8422. 3
8422. 5
8423. 1
8423. 4
8423. 6
8424. 2
8424. 4

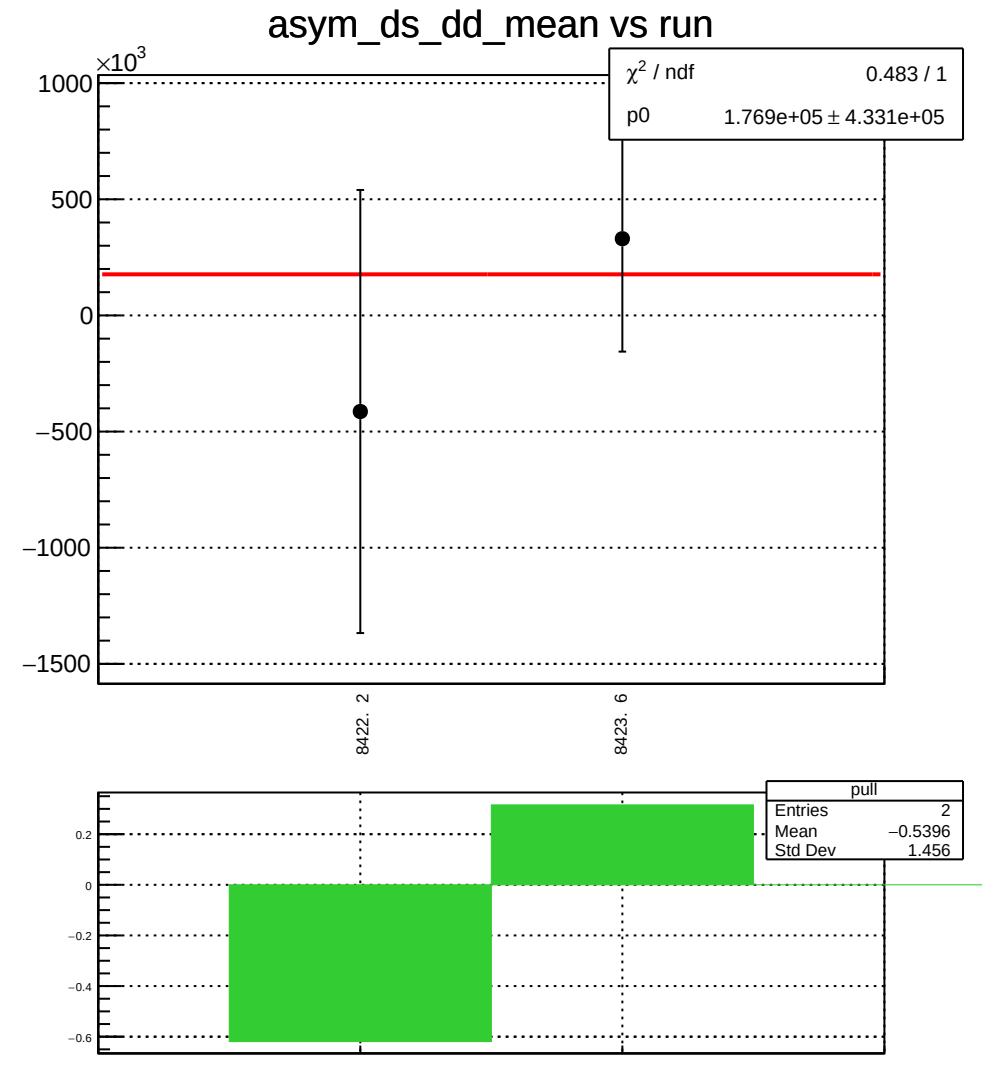

reg_asym_ds_dd_mean vs run
×10^3
1000
500
0
−500
−1000
−1500
χ² / ndf 0.5246 / 1
p0 1.679e+05 ± 4.33e+05
8422. 2
8423. 6
pull
Entries 2
Mean −0.5392
Std Dev 1.456
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 2
Mean −0.1582
Std Dev 0.4871
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

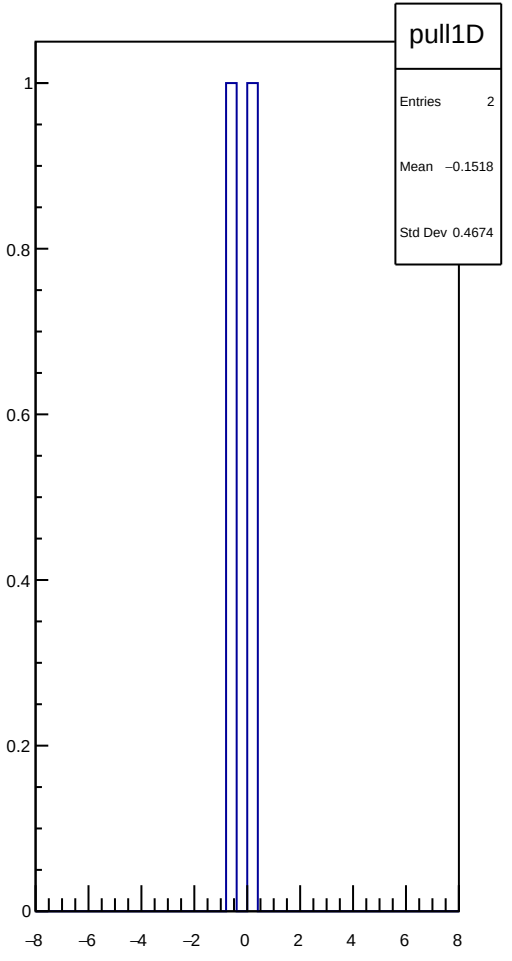

reg_asym_ds_dd_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.093e+05 / 10
p0 7.782e+04 ± 261.4
8411. 0
8415. 2
8421. 0
8422. 2
8422. 3
8422. 5
8423. 1
8423. 4
8423. 6
8424. 2
8424. 4

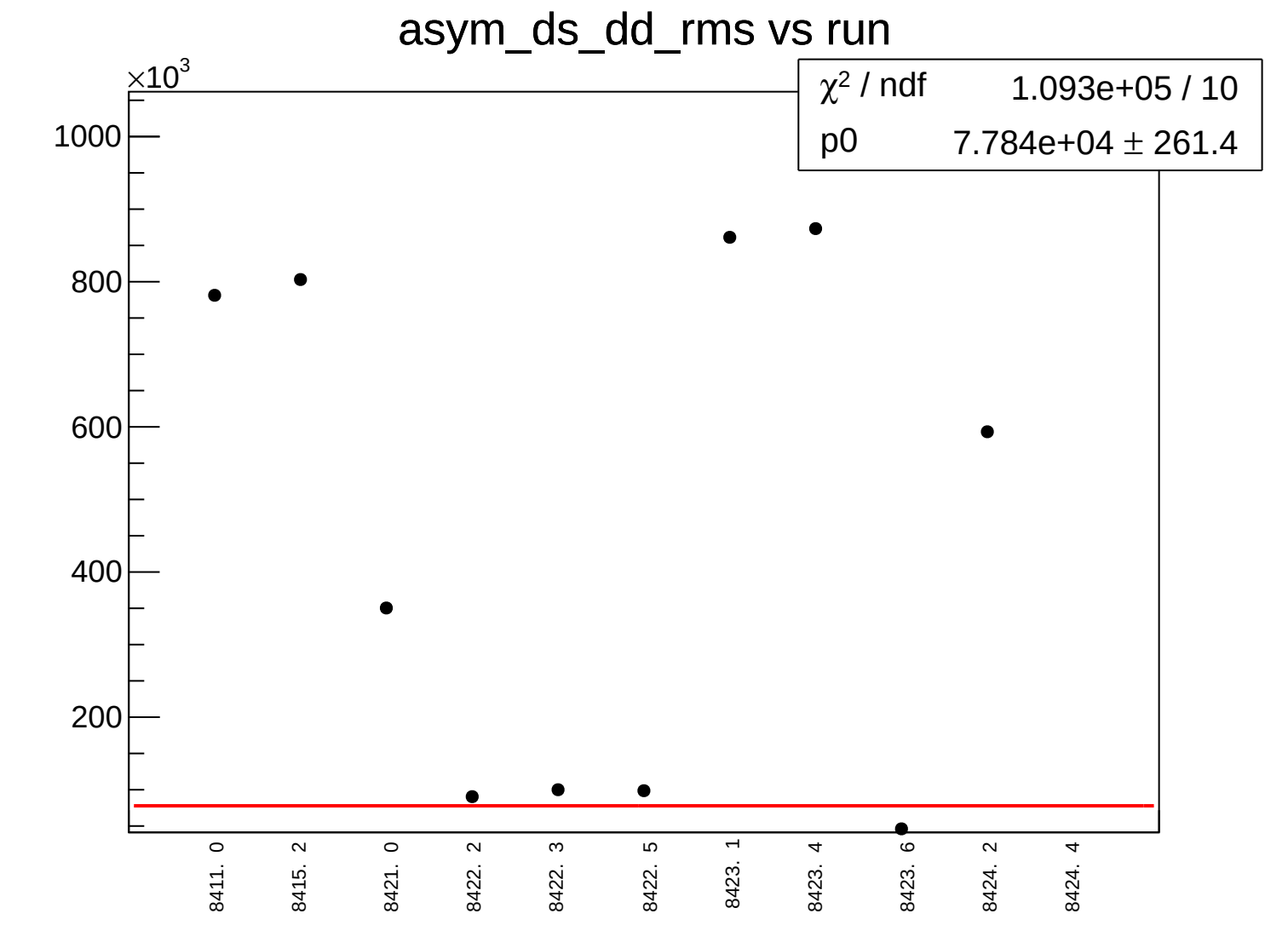

asym_ds_dd_correction_mean vs run
×10^3
χ² / ndf 26.23 / 46
p0 −1.167e+04 ± 7177
1500
1000
500
0
−500
−1000
−1500
8394. 4
8394. 7
8411. 0
8411. 1
8411. 2
8411. 3
8411. 6
8411. 7
8413. 2
8414. 2
8415. 0
8415. 2
8415. 3
8415. 4
8415. 6
8415. 7
8416. 1
8416. 4
8416. 6
8421. 0
8421. 1
8421. 2
8421. 3
8422. 0
8422. 1
8422. 2
8422. 3
8422. 4
8422. 5
8422. 6
8423. 0
8423. 1
8423. 2
8423. 3
8423. 4
8423. 5
8423. 6
8423. 8
8424. 2
8424. 4
8424. 5
8424. 6
8424. 7
8424. 8
8425. 0
8425. 2
8425. 3
pull
Entries 47
Mean −56.63
Std Dev 87.57
1.5
1
0.5
0
−0.5
−1
−1.5

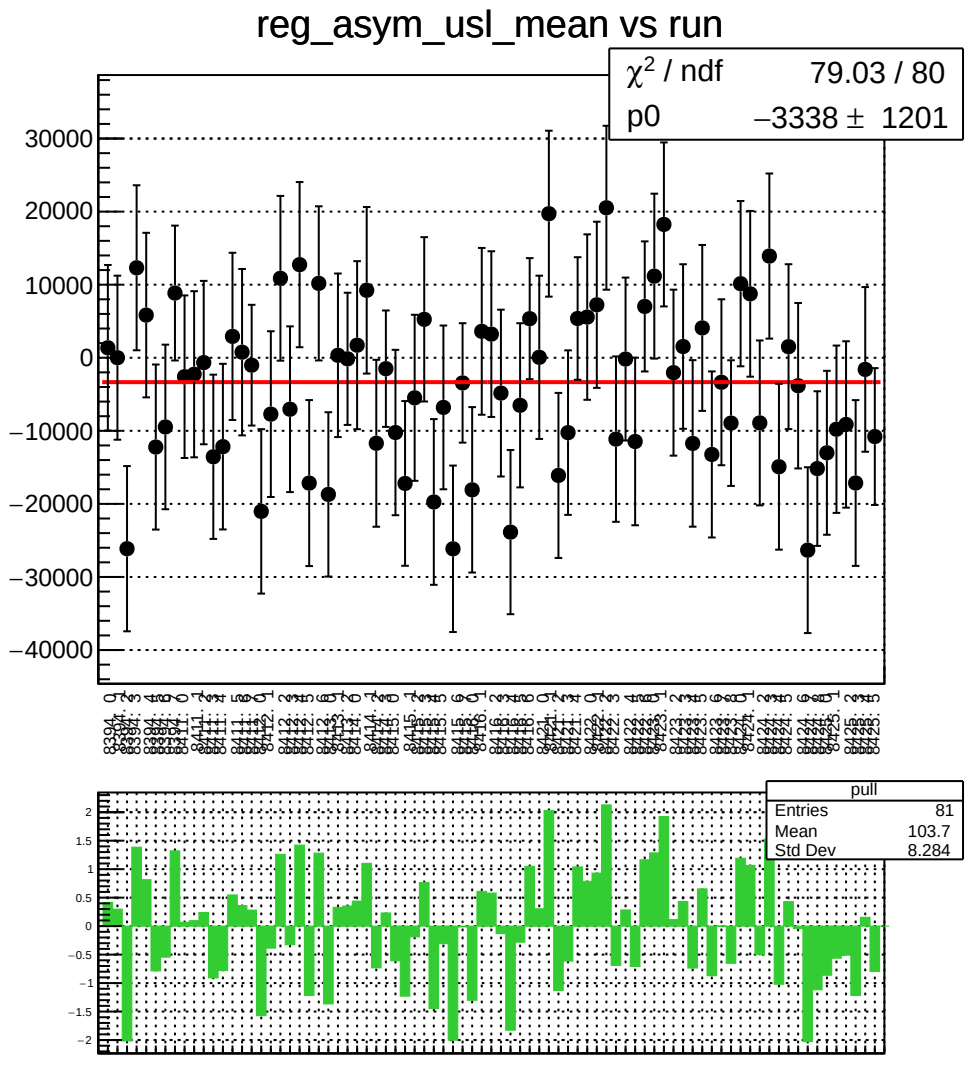

pull1D
Entries 47
Mean −0.009965
Std Dev 0.747
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

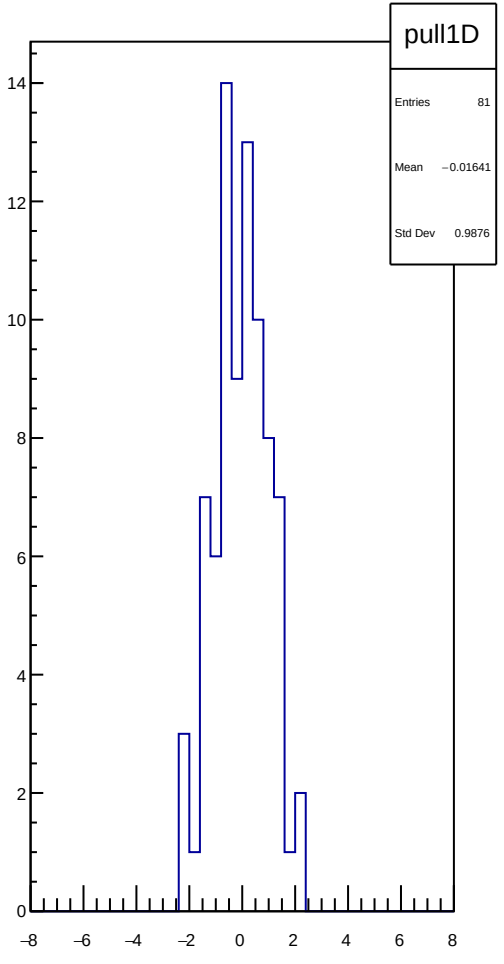

asym_ds_dd_correction_rms vs run
×10^3
χ^2 / ndf 1.386e+06 / 78
p0 2110 ± 5.073
1000
800
600
400
200

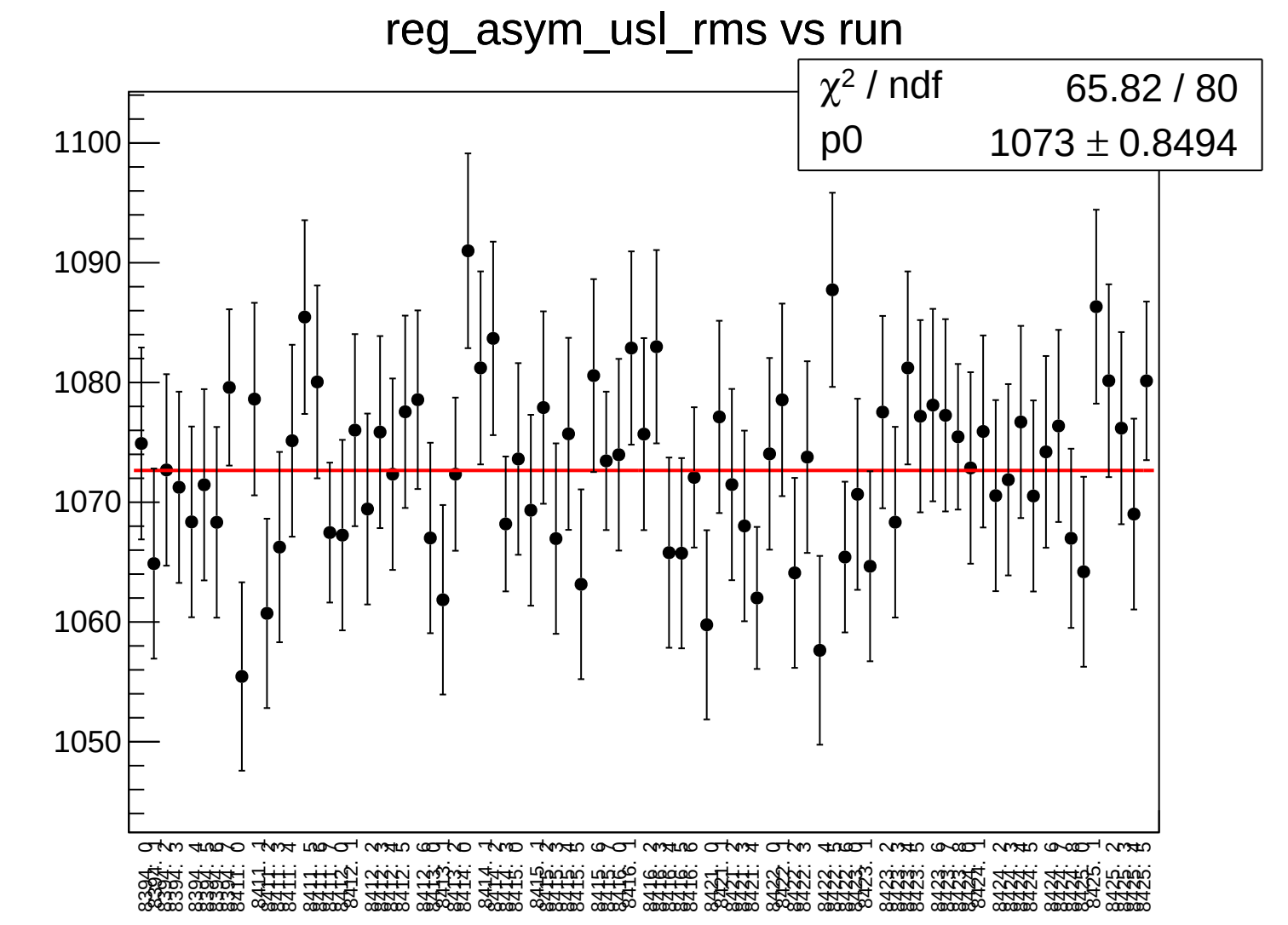

asym_ds_dd_mean vs run
×10^3
1000
500
0
−500
−1000
−1500
χ² / ndf 0.483 / 1
p0 1.769e+05 ± 4.331e+05
8422. 2
8423. 6
pull
Entries 2
Mean −0.5396
Std Dev 1.456
0.2
0
−0.2
−0.4
−0.6

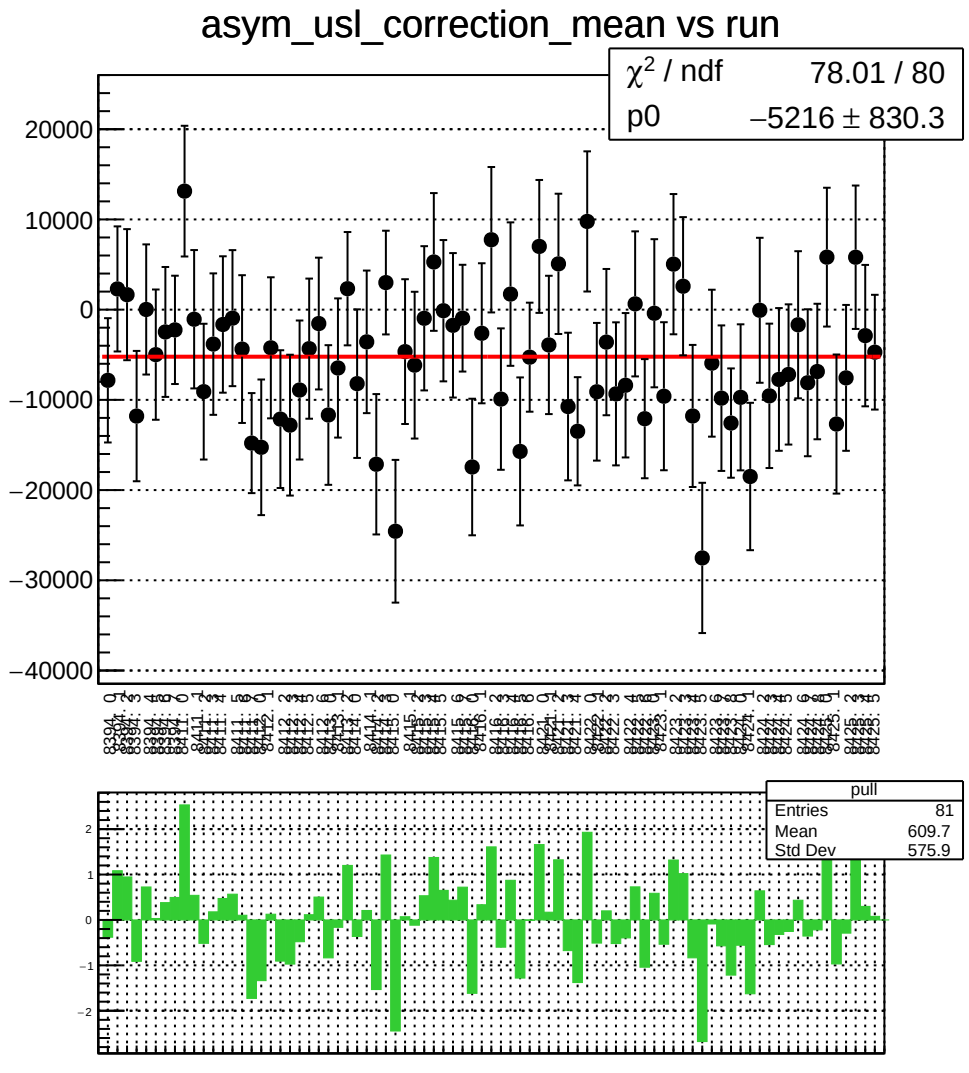

pull1D
Entries 2
Mean −0.1518
Std Dev 0.4674
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

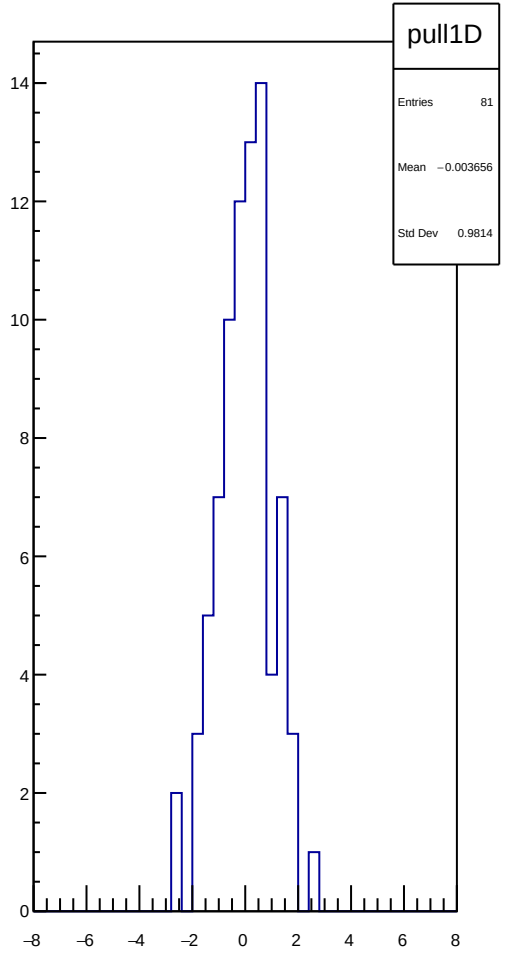

asym_ds_dd_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.093e+05 / 10
p0 7.784e+04 ± 261.4
8411. 0
8415. 2
8421. 0
8422. 2
8422. 3
8422. 5
8423. 1
8423. 4
8423. 6
8424. 2
8424. 4

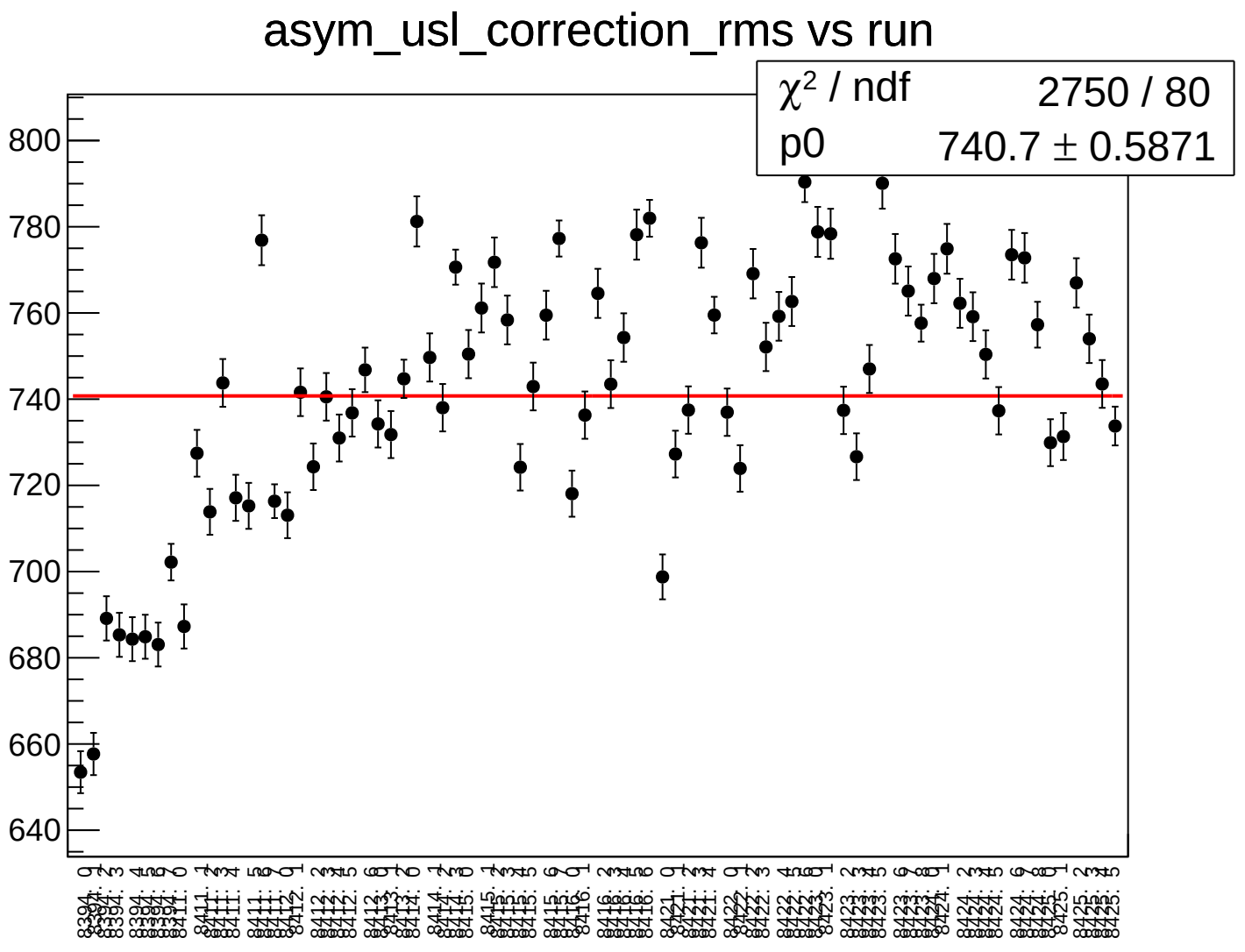

reg_asym_usl_mean vs run
χ² / ndf 79.03 / 80
p0 −3338 ± 1201
pull
Entries 81
Mean 103.7
Std Dev 8.284

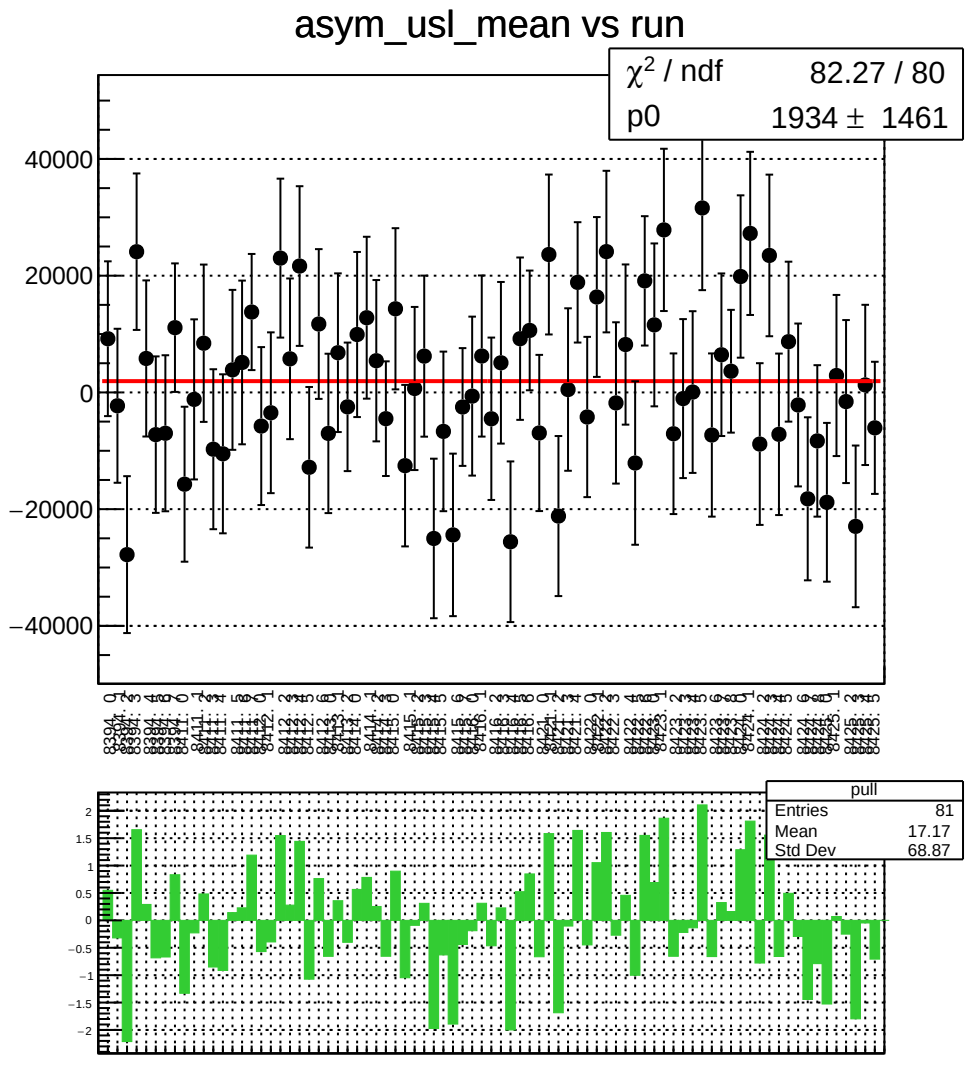

pull1D
Entries 81
Mean −0.01641
Std Dev 0.9876

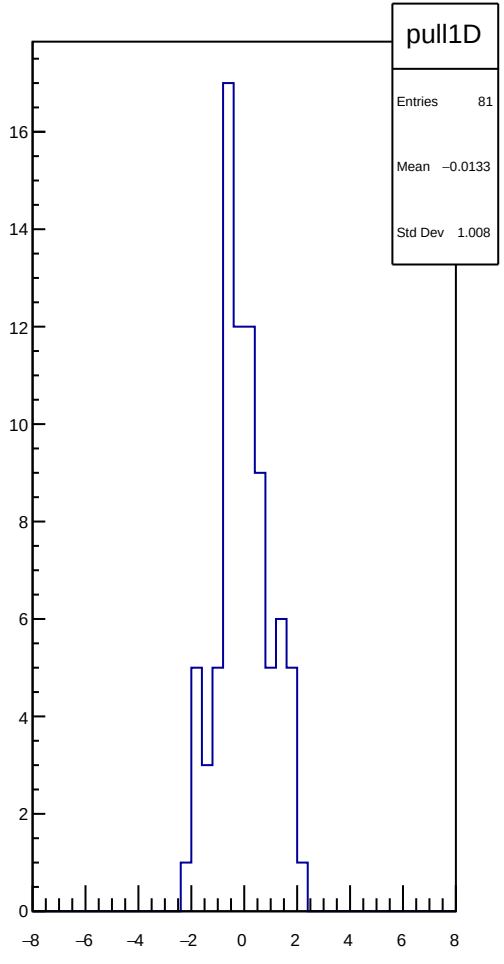

reg_asym_usl_rms vs run
χ² / ndf 65.82 / 80
p0 1073 ± 0.8494
1100
1090
1080
1070
1060
1050

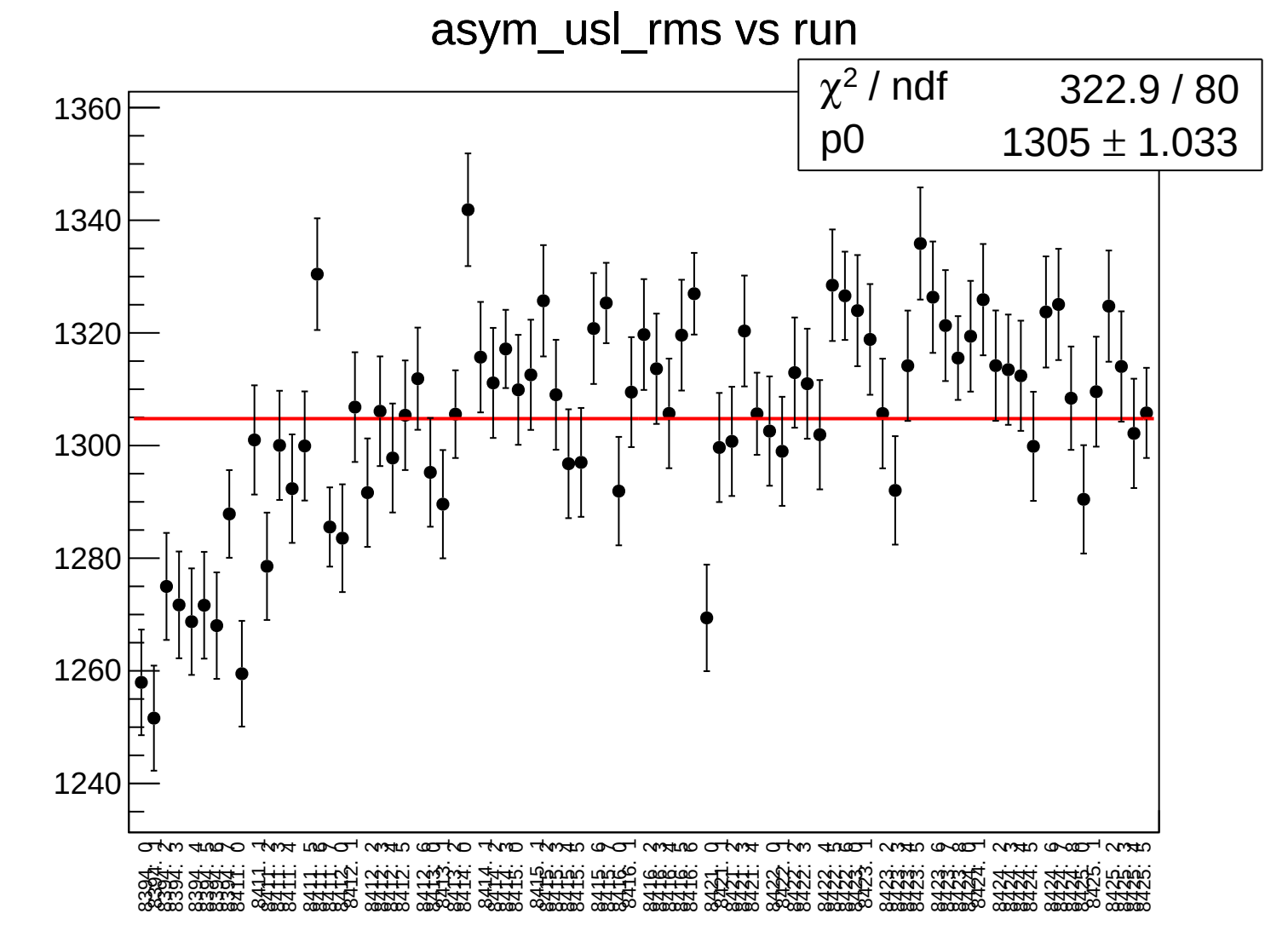

asym_usl_correction_mean vs run
χ² / ndf 78.01 / 80
p0 −5216 ± 830.3
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 81
Mean 609.7
Std Dev 575.9
2
1
0
−1
−2

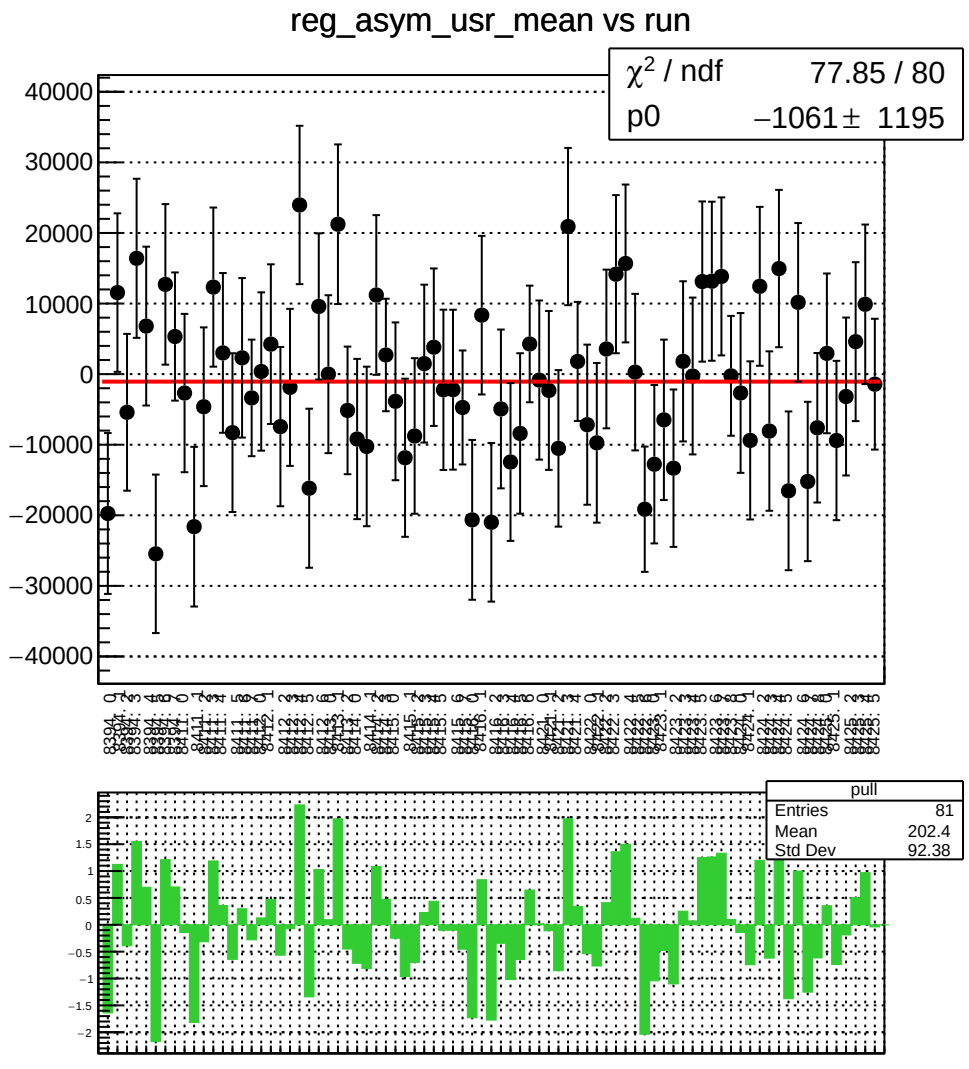

pull1D
Entries 81
Mean −0.003656
Std Dev 0.9814
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

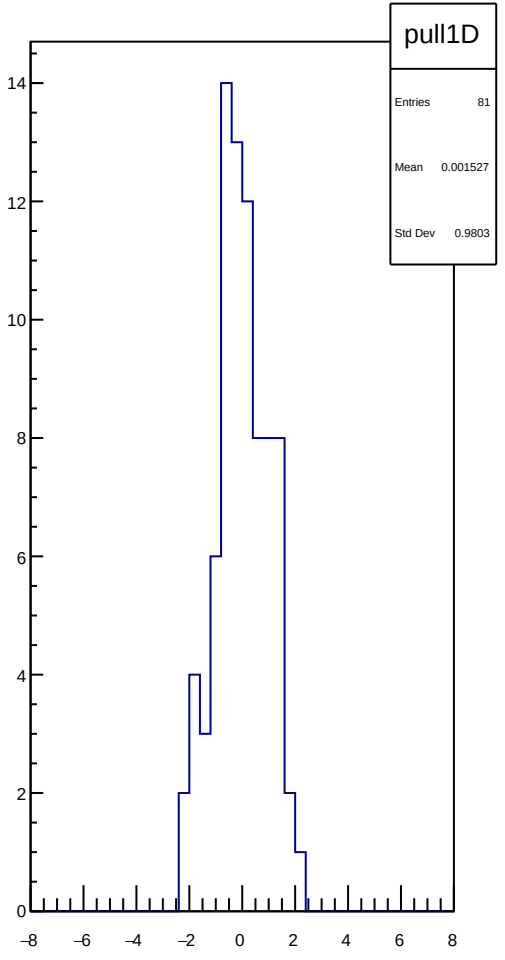

asym_usl_correction_rms vs run
χ² / ndf 2750 / 80
p0 740.7 ± 0.5871
800
780
760
740
720
700
680
660
640

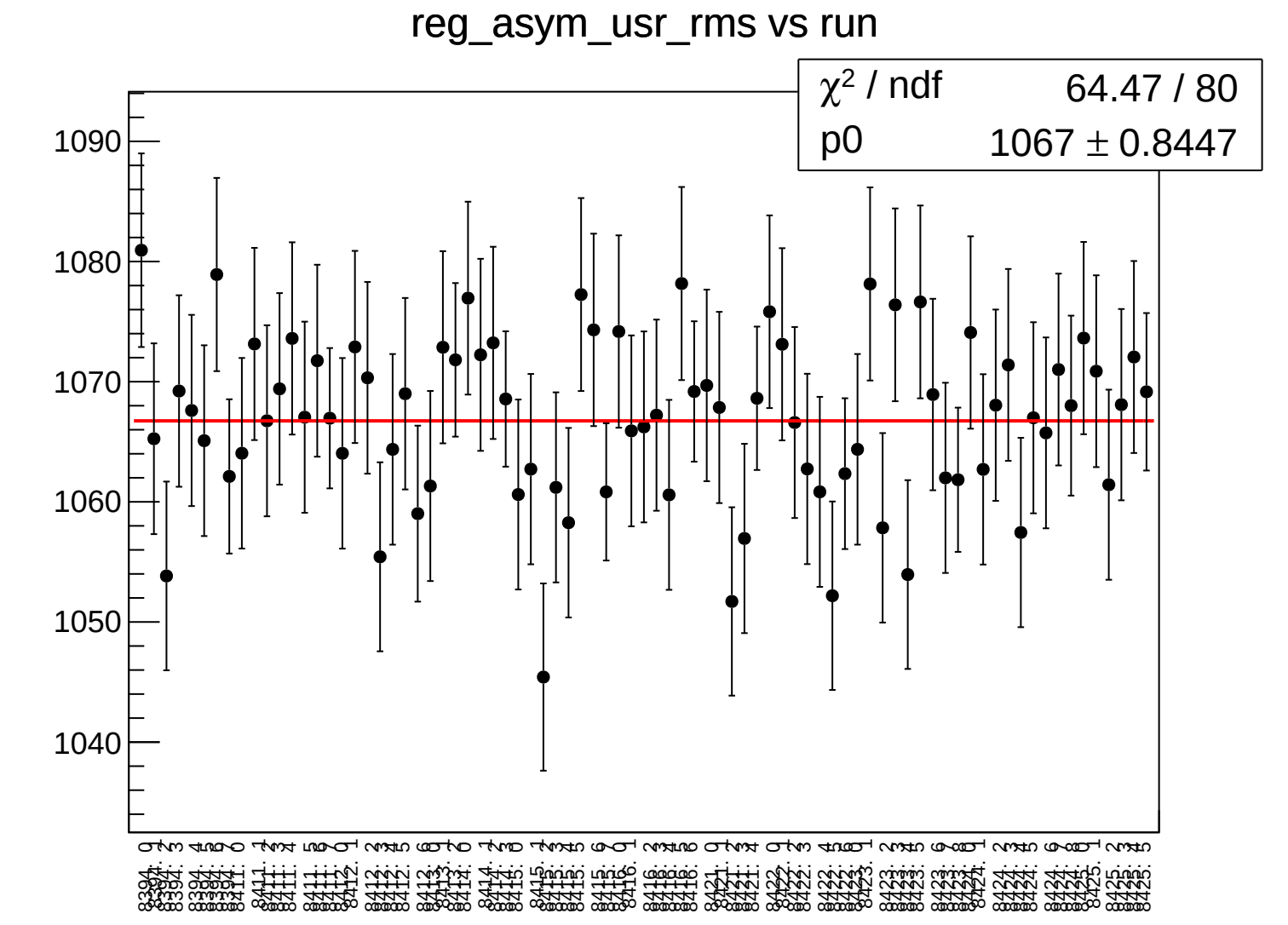

asym_usl_mean vs run
χ^2 / ndf 82.27 / 80
p0 1934 ± 1461
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 17.17
Std Dev 68.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

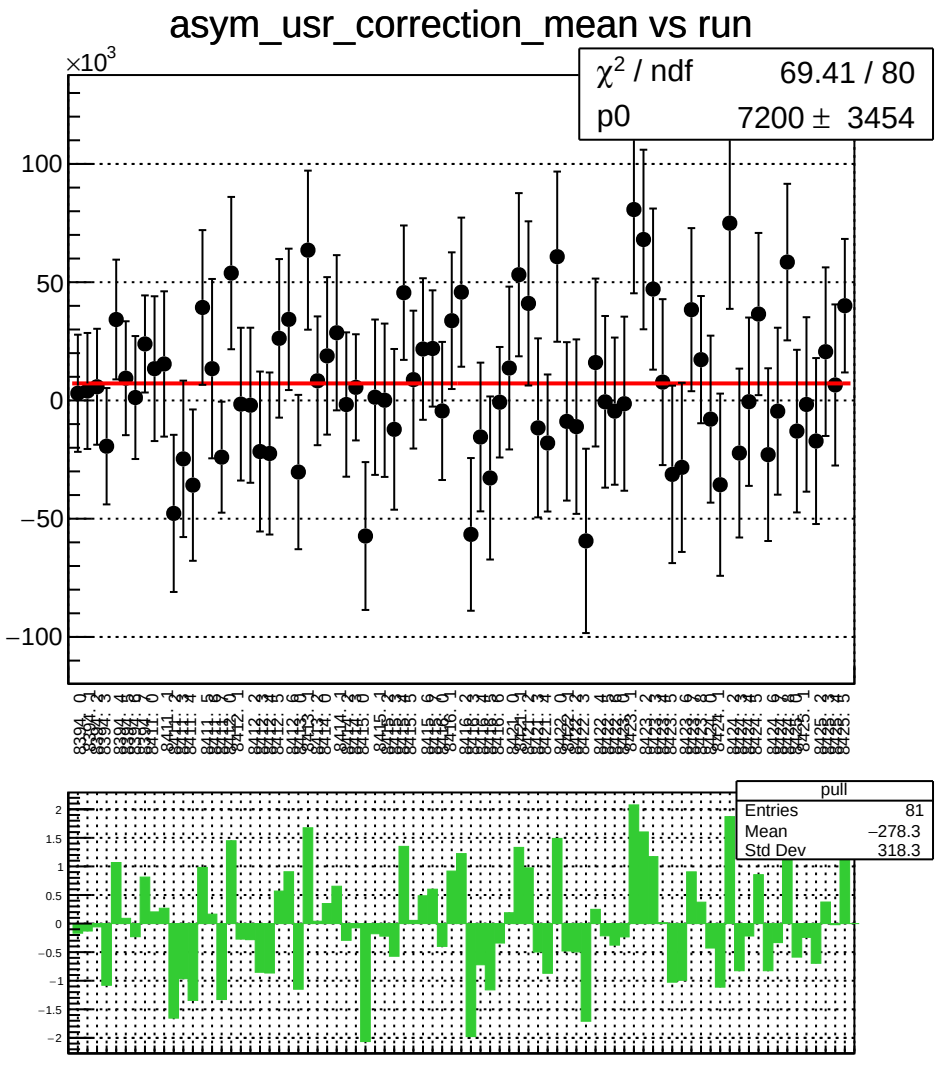

pull1D
Entries 81
Mean −0.0133
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

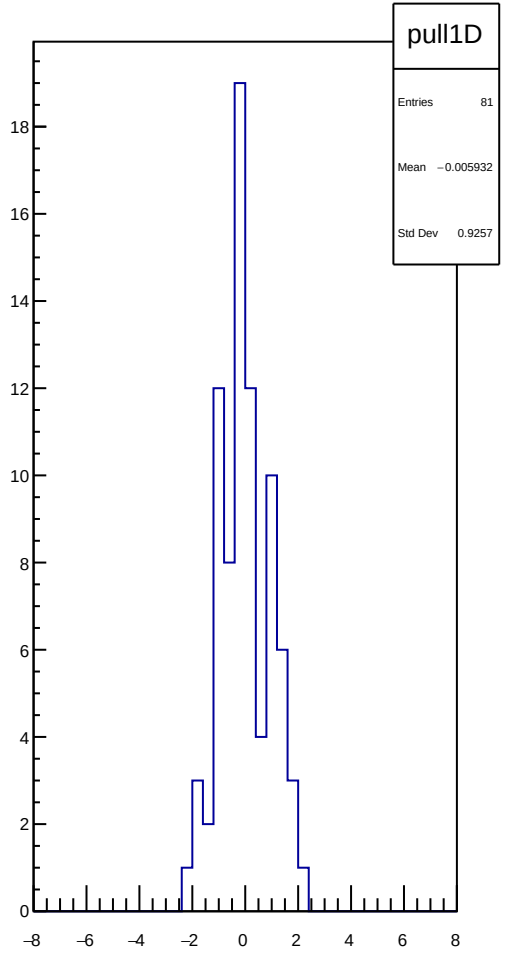

asym_usl_rms vs run
χ² / ndf 322.9 / 80
p0 1305 ± 1.033
1360
1340
1320
1300
1280
1260
1240

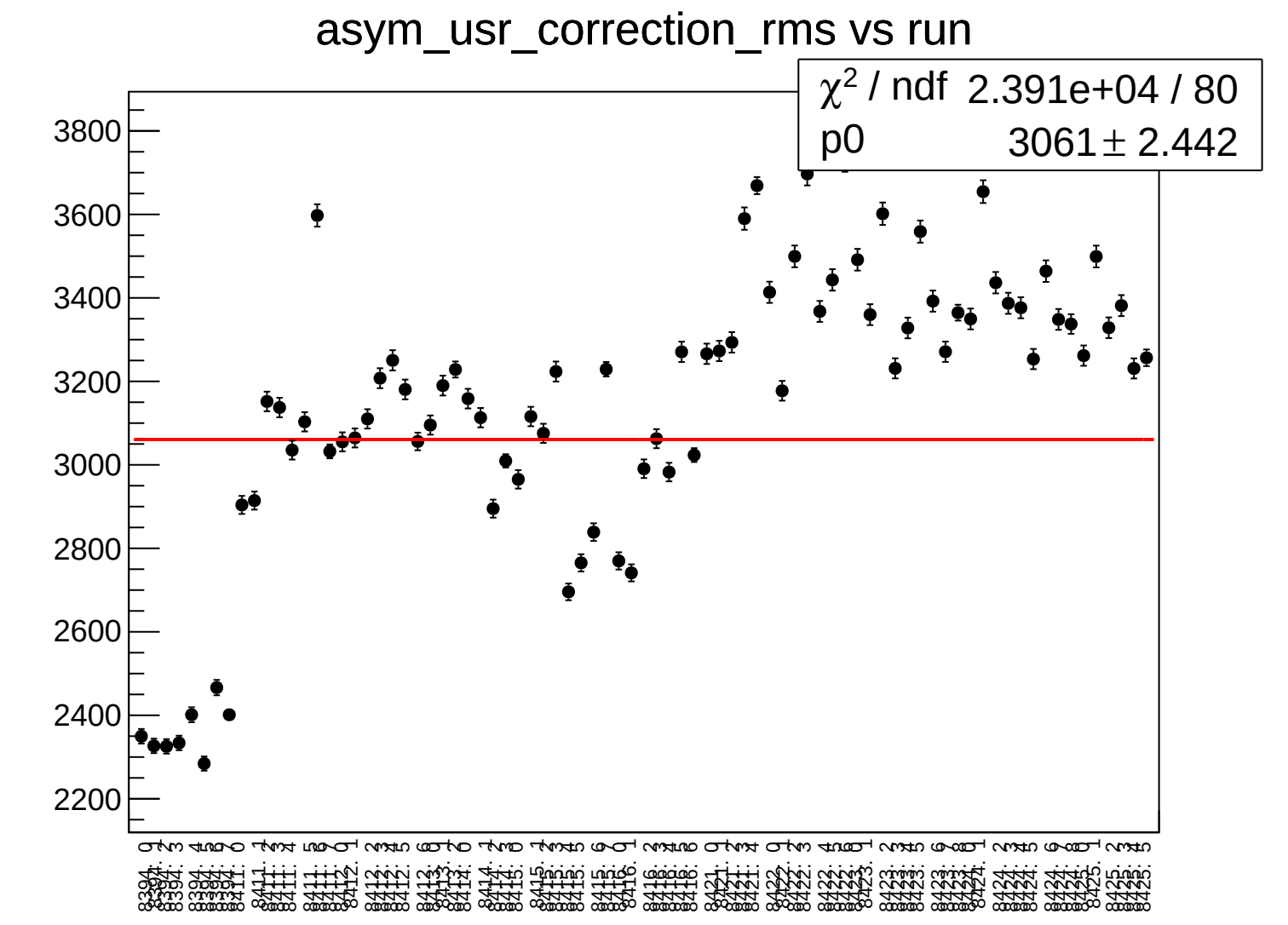

reg_asym_usr_mean vs run
χ² / ndf 77.85 / 80
p0 −1061 ± 1195
pull
Entries 81
Mean 202.4
Std Dev 92.38

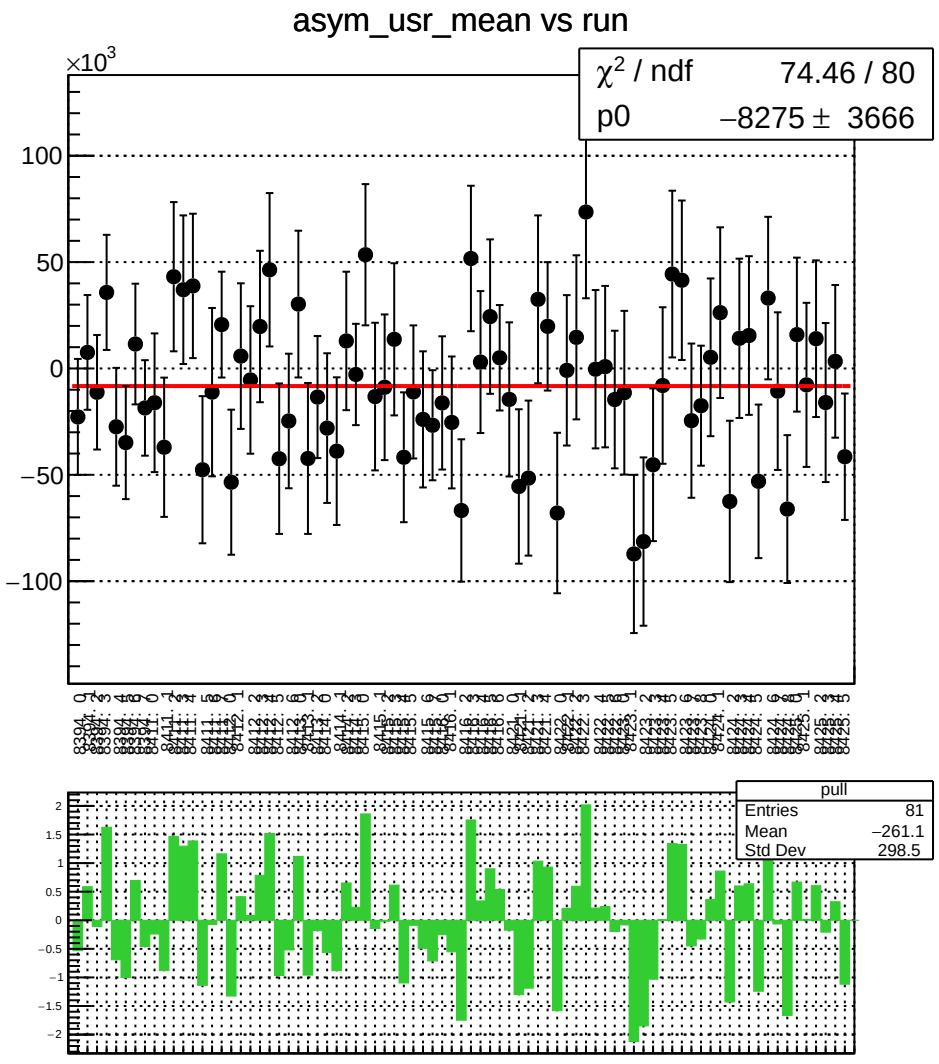

pull1D
Entries 81
Mean 0.001527
Std Dev 0.9803

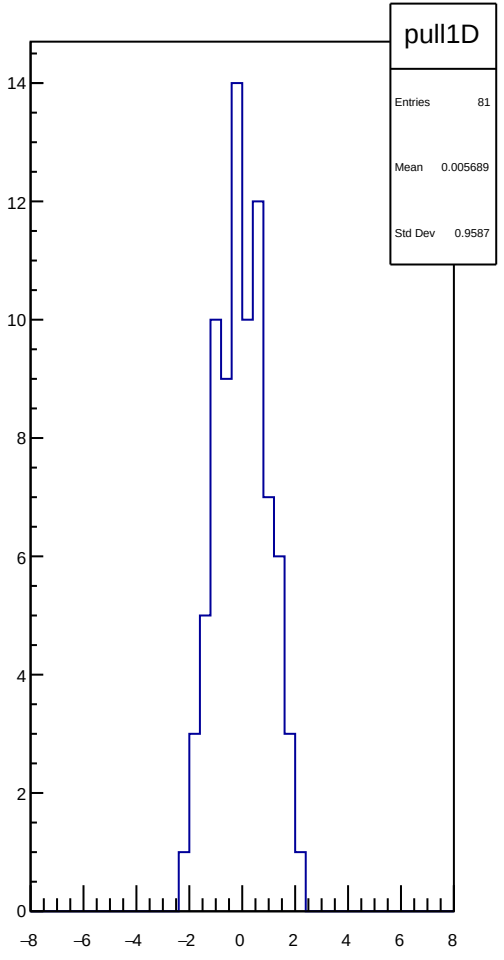

reg_asym_usr_rms vs run
χ² / ndf 64.47 / 80
p0 1067 ± 0.8447
1090
1080
1070
1060
1050
1040

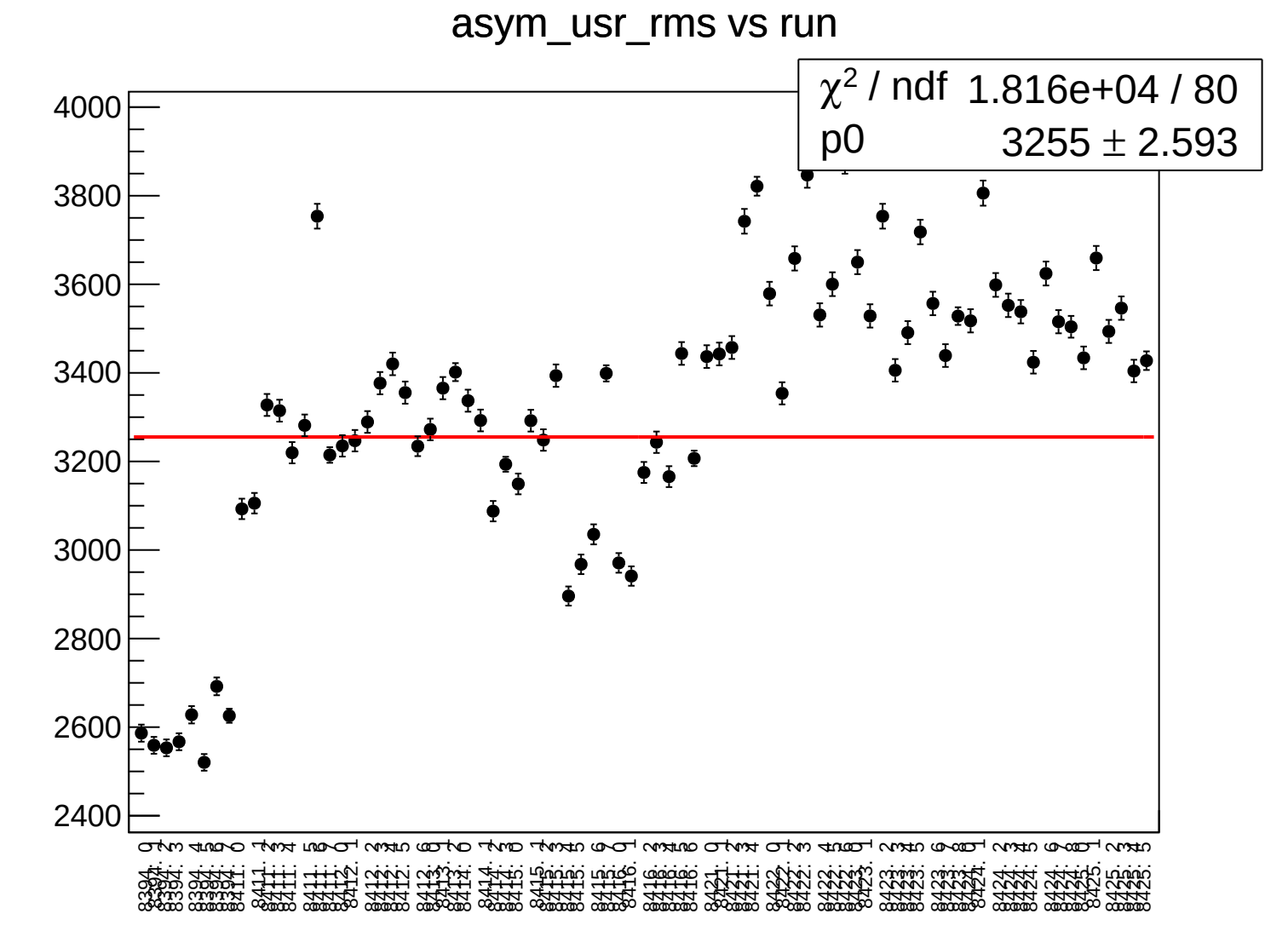

asym_usr_correction_mean vs run
×10^3
χ² / ndf 69.41 / 80
p0 7200 ± 3454
100
50
0
−50
−100
pull
Entries 81
Mean −278.3
Std Dev 318.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

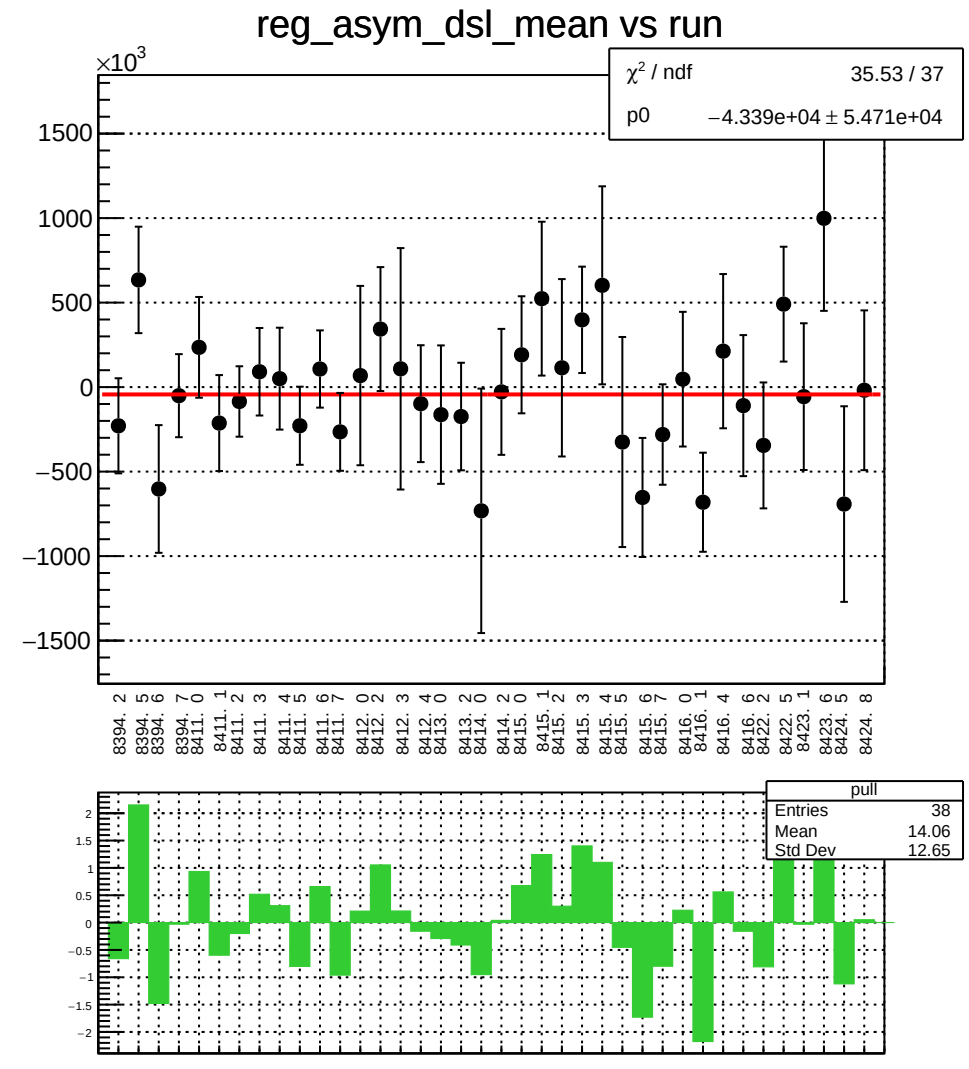

pull1D
Entries 81
Mean −0.005932
Std Dev 0.9257
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

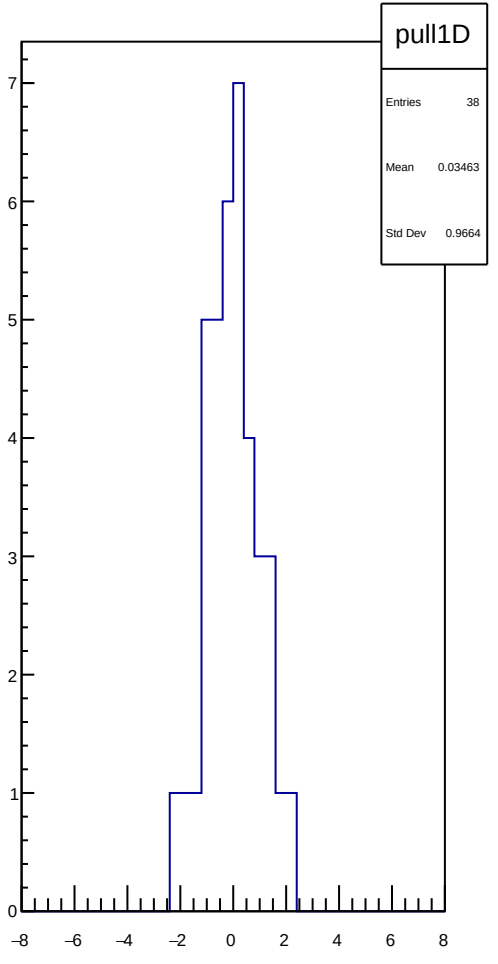

asym_usr_correction_rms vs run
χ² / ndf 2.391e+04 / 80
p0 3061 ± 2.442
3800
3600
3400
3200
3000
2800
2600
2400
2200

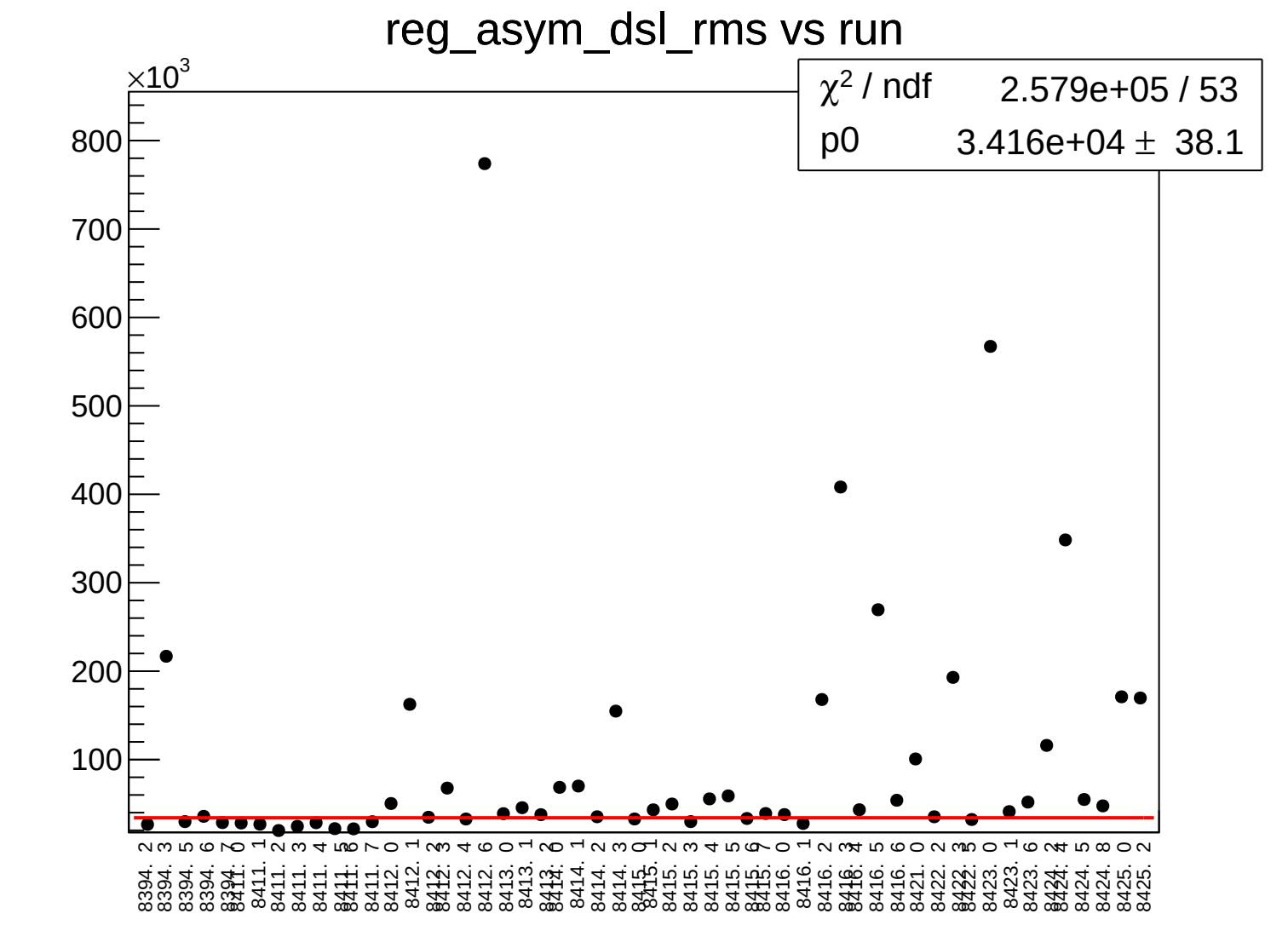

asym_usr_mean vs run
×10^3
χ² / ndf 74.46 / 80
p0 −8275 ± 3666
100
50
0
−50
−100
pull
Entries 81
Mean −261.1
Std Dev 298.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

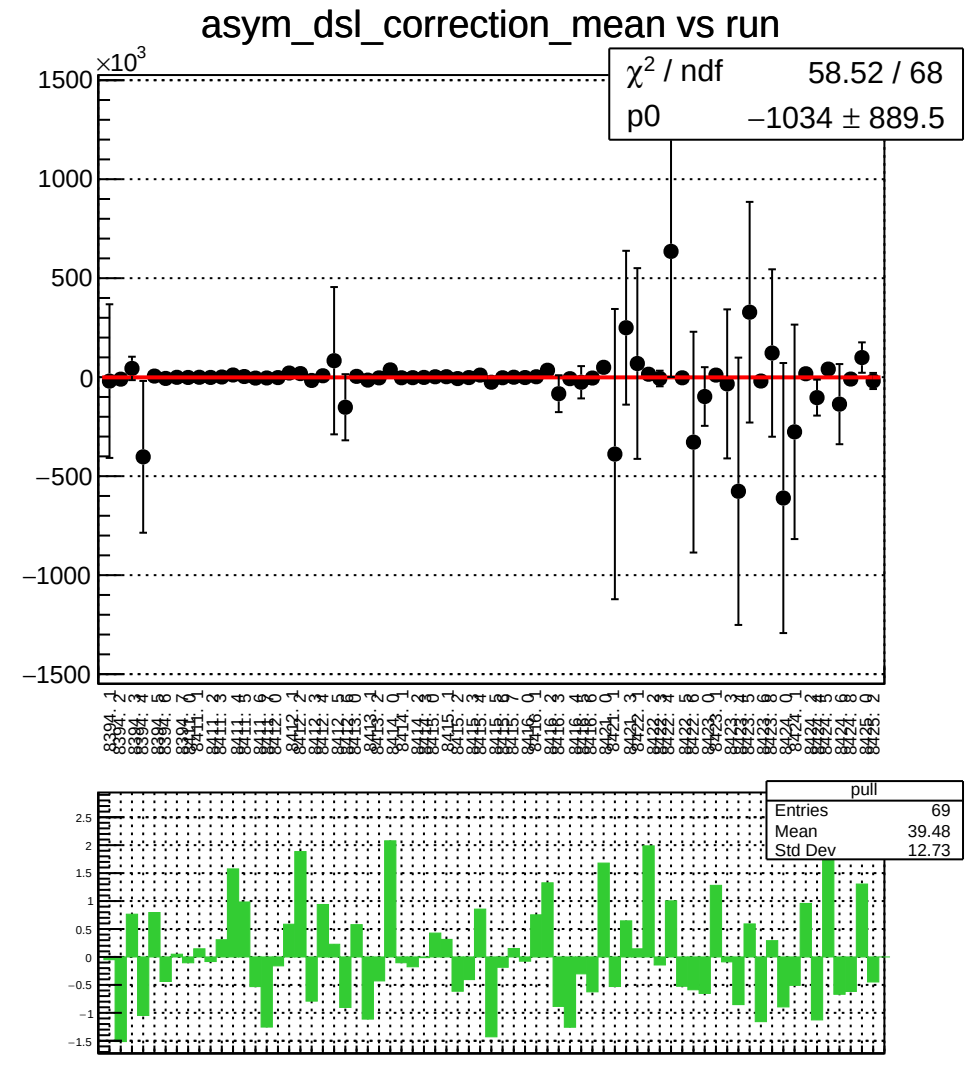

pull1D
Entries 81
Mean 0.005689
Std Dev 0.9587
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

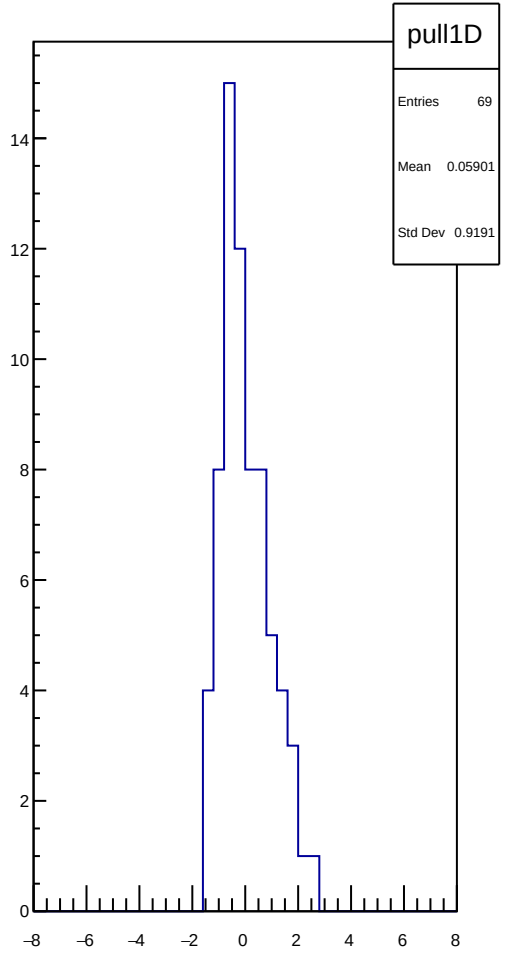

asym_usr_rms vs run
χ² / ndf 1.816e+04 / 80
p0 3255 ± 2.593
4000
3800
3600
3400
3200
3000
2800
2600
2400

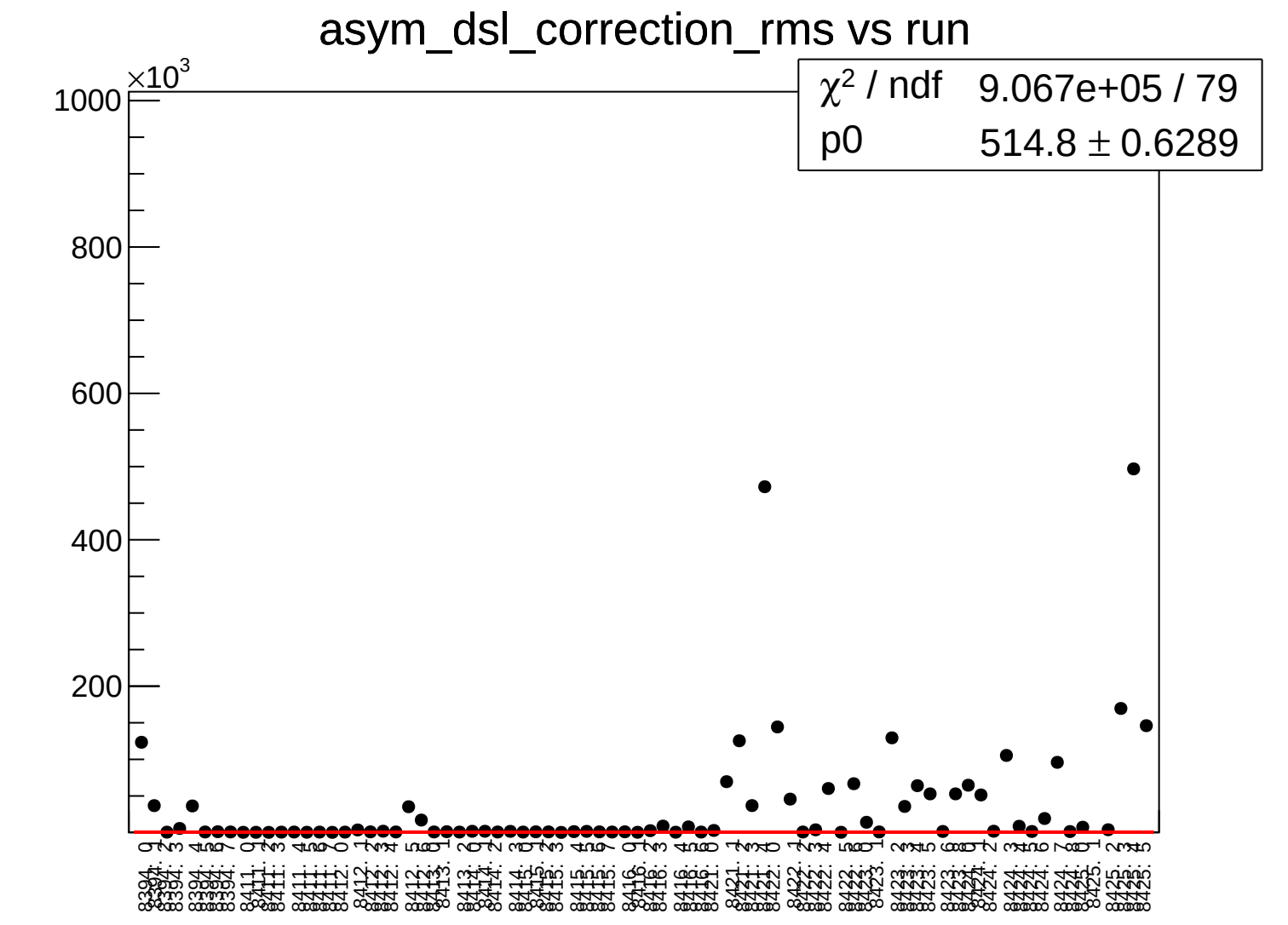

reg_asym_dsl_mean vs run
×10^3
χ² / ndf 35.53 / 37
p0 −4.339e+04 ± 5.471e+04
1500
1000
500
0
−500
−1000
−1500
8394. 2
8394. 5
8394. 6
8394. 7
8411. 0
8411. 1
8411. 2
8411. 3
8411. 4
8411. 5
8411. 6
8411. 7
8412. 0
8412. 2
8412. 3
8412. 4
8413. 0
8413. 2
8414. 0
8414. 2
8415. 0
8415. 1
8415. 2
8415. 3
8415. 4
8415. 5
8415. 6
8415. 7
8416. 0
8416. 1
8416. 4
8416. 6
8422. 2
8422. 5
8423. 1
8423. 6
8424. 5
8424. 8
pull
Entries 38
Mean 14.06
Std Dev 12.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

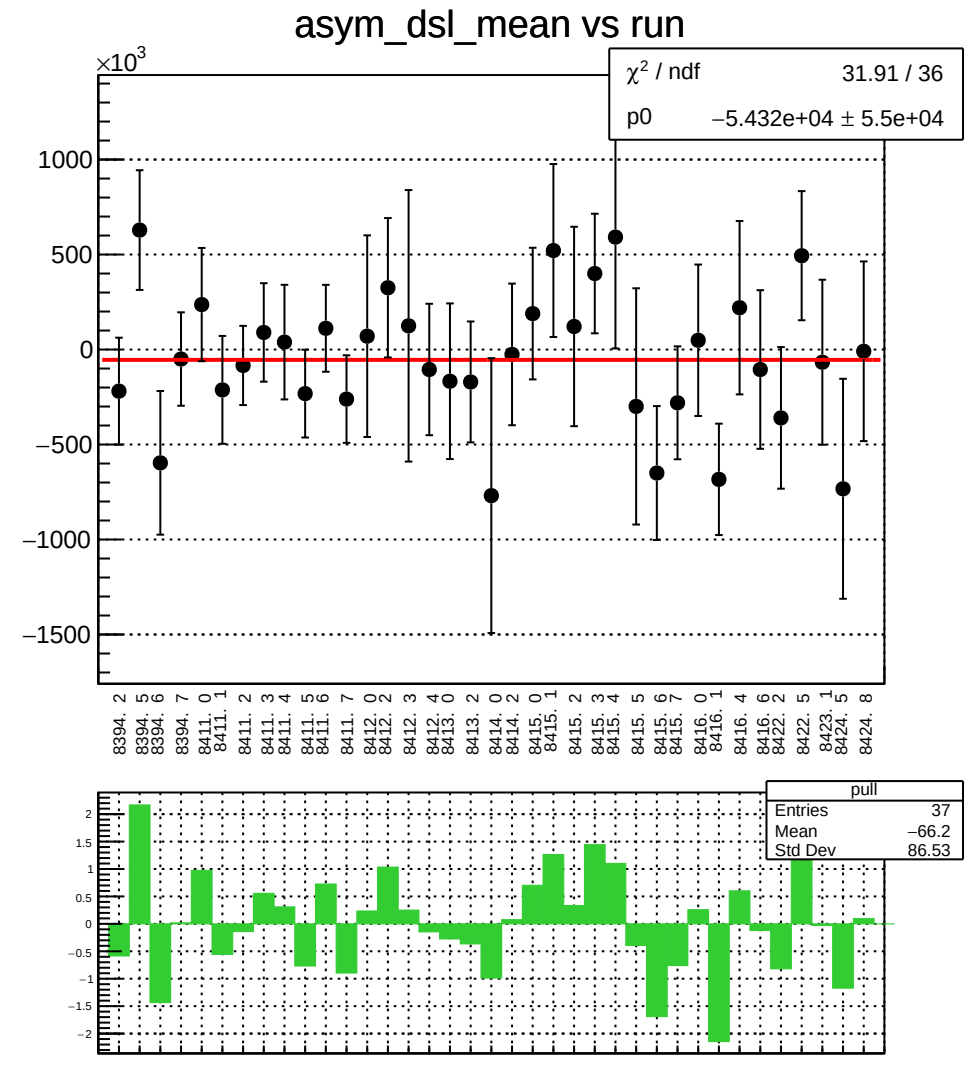

pull1D
Entries 38
Mean 0.03463
Std Dev 0.9664
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

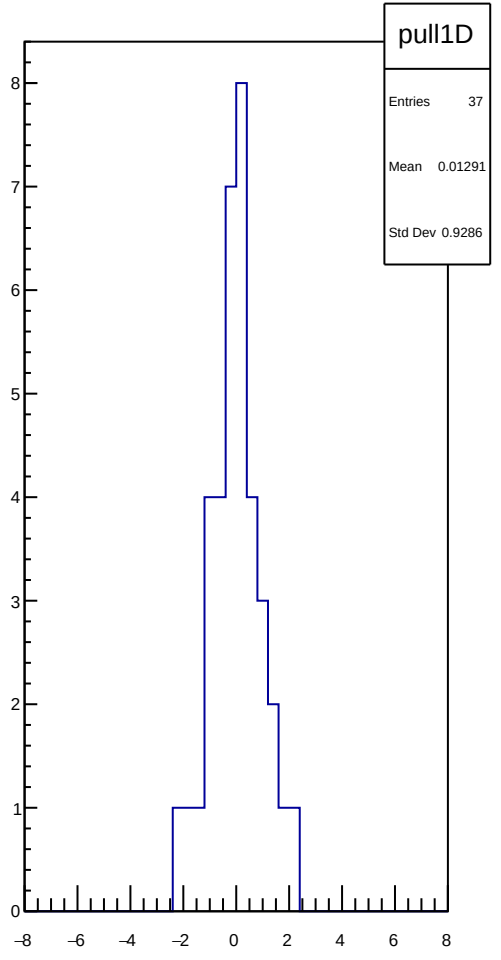

reg_asym_dsl_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 2.579e+05 / 53
p0 3.416e+04 ± 38.1
8394. 2
8394. 3
8394. 5
8394. 6
8411. 1
8411. 2
8411. 3
8411. 4
8411. 7
8412. 0
8412. 1
8412. 4
8412. 6
8413. 0
8413. 1
8414. 1
8414. 2
8414. 3
8415. 2
8415. 3
8415. 4
8415. 5
8416. 0
8416. 1
8416. 2
8416. 5
8416. 6
8421. 0
8422. 2
8423. 0
8423. 1
8423. 6
8424. 2
8424. 5
8424. 8
8425. 0
8425. 2

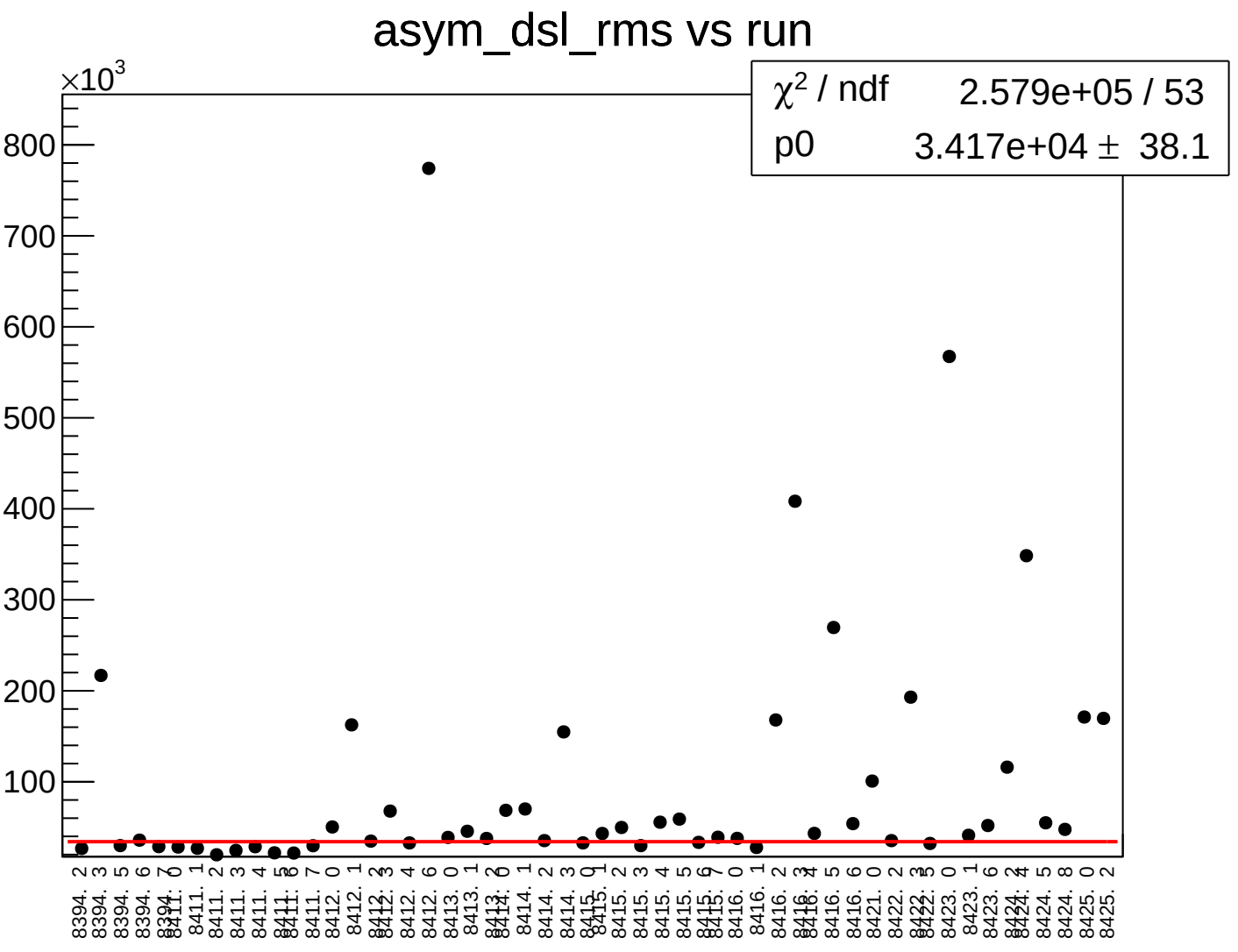

asym_dsl_correction_mean vs run
×10^3
χ² / ndf 58.52 / 68
p0 −1034 ± 889.5
pull
Entries 69
Mean 39.48
Std Dev 12.73

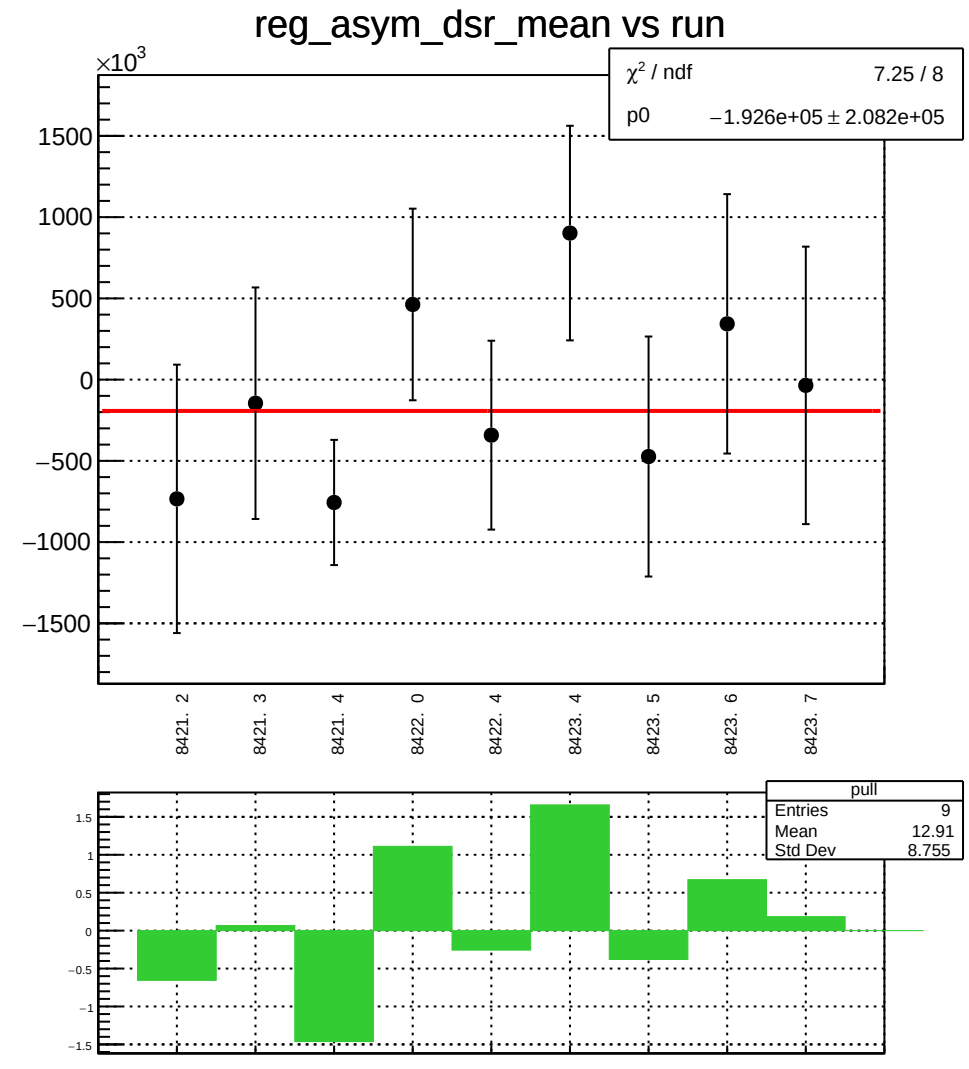

pull1D
Entries 69
Mean 0.05901
Std Dev 0.9191

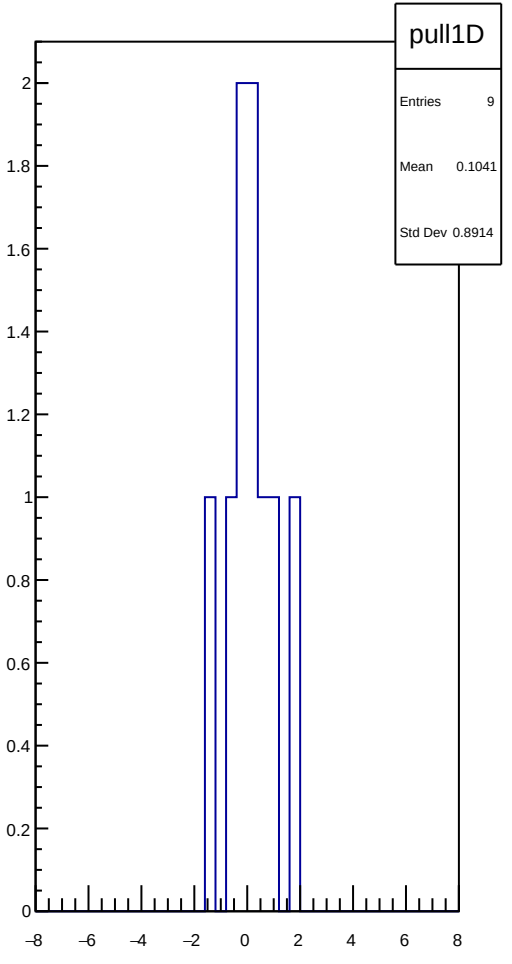

asym_dsl_correction_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 9.067e+05 / 79
p0 514.8 ± 0.6289

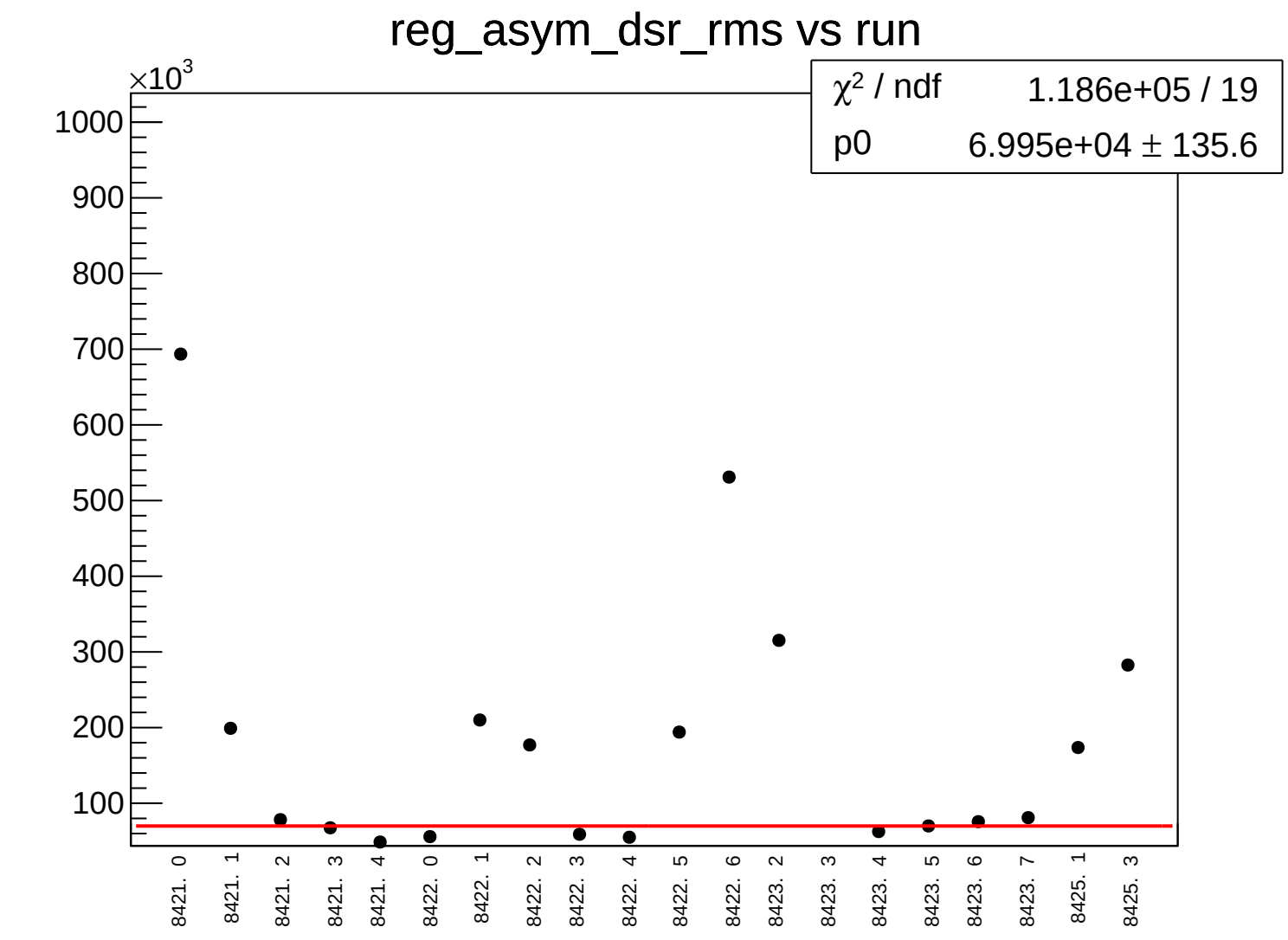

asym_dsl_mean vs run
×10^3
χ² / ndf 31.91 / 36
p0 −5.432e+04 ± 5.5e+04
1000
500
0
−500
−1000
−1500
8394. 2
8394. 5
8394. 6
8394. 7
8411. 0
8411. 1
8411. 2
8411. 3
8411. 4
8411. 5
8411. 6
8411. 7
8412. 0
8412. 2
8412. 3
8412. 4
8413. 0
8413. 2
8414. 0
8414. 2
8415. 0
8415. 1
8415. 2
8415. 3
8415. 4
8415. 5
8415. 6
8415. 7
8416. 0
8416. 1
8416. 4
8416. 6
8422. 2
8422. 5
8423. 1
8424. 5
8424. 8
pull
Entries 37
Mean −66.2
Std Dev 86.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

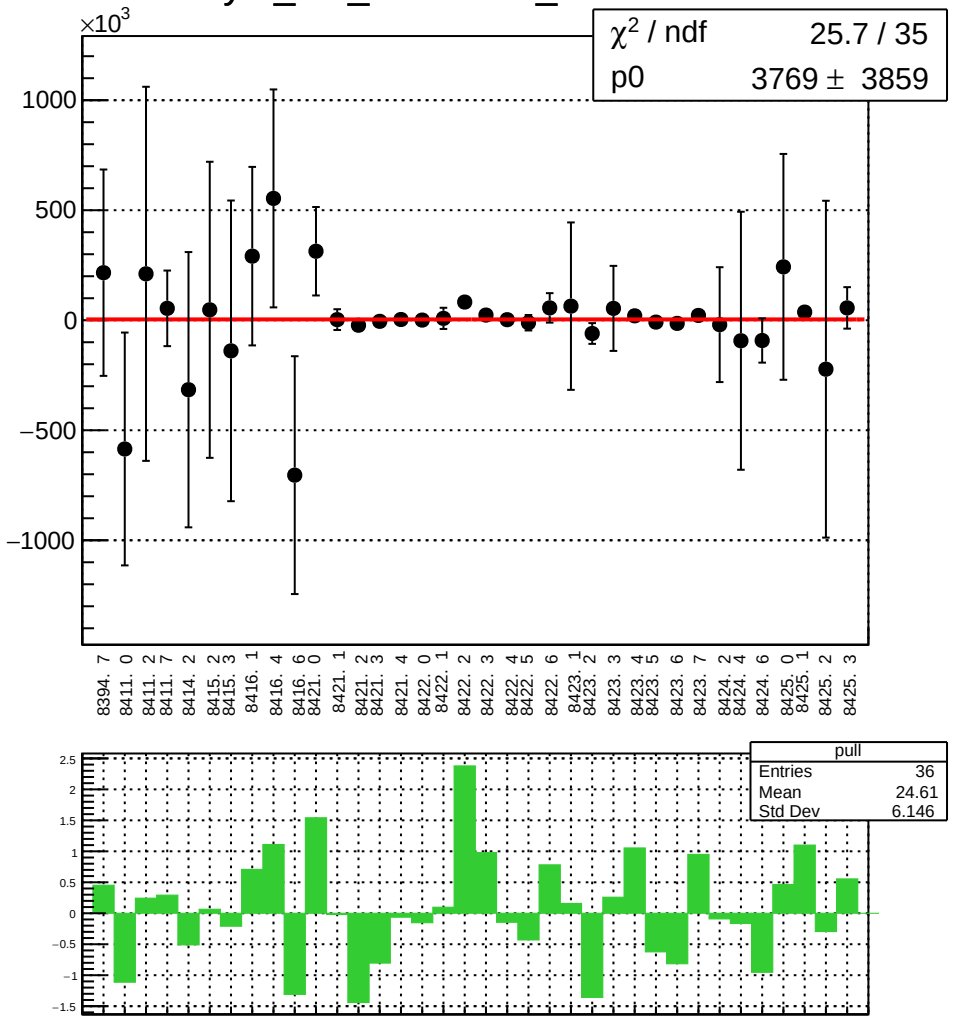

pull1D
Entries 37
Mean 0.01291
Std Dev 0.9286
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

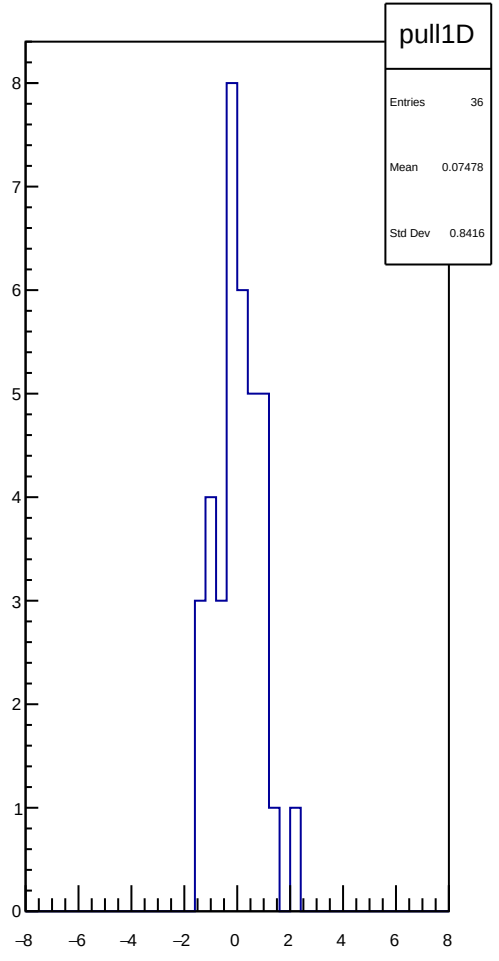

asym_dsl_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 2.579e+05 / 53
p0 3.417e+04 ± 38.1

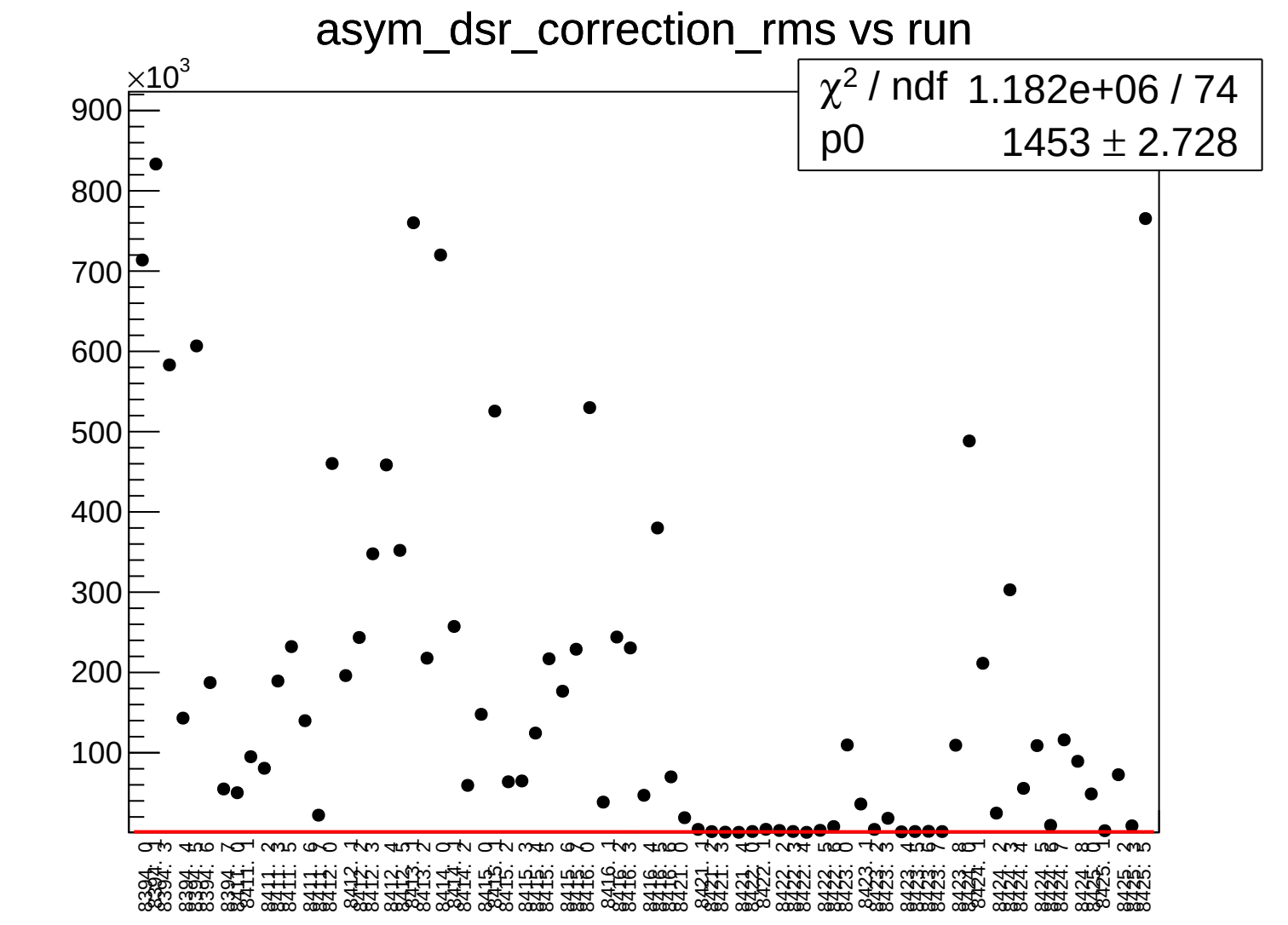

reg_asym_dsr_mean vs run
×10^3
χ² / ndf 7.25 / 8
p0 −1.926e+05 ± 2.082e+05
1500
1000
500
0
−500
−1000
−1500
8421. 2
8421. 3
8421. 4
8422. 0
8422. 4
8423. 4
8423. 5
8423. 6
8423. 7
pull
Entries 9
Mean 12.91
Std Dev 8.755
1.5
1
0.5
0
−0.5
−1
−1.5

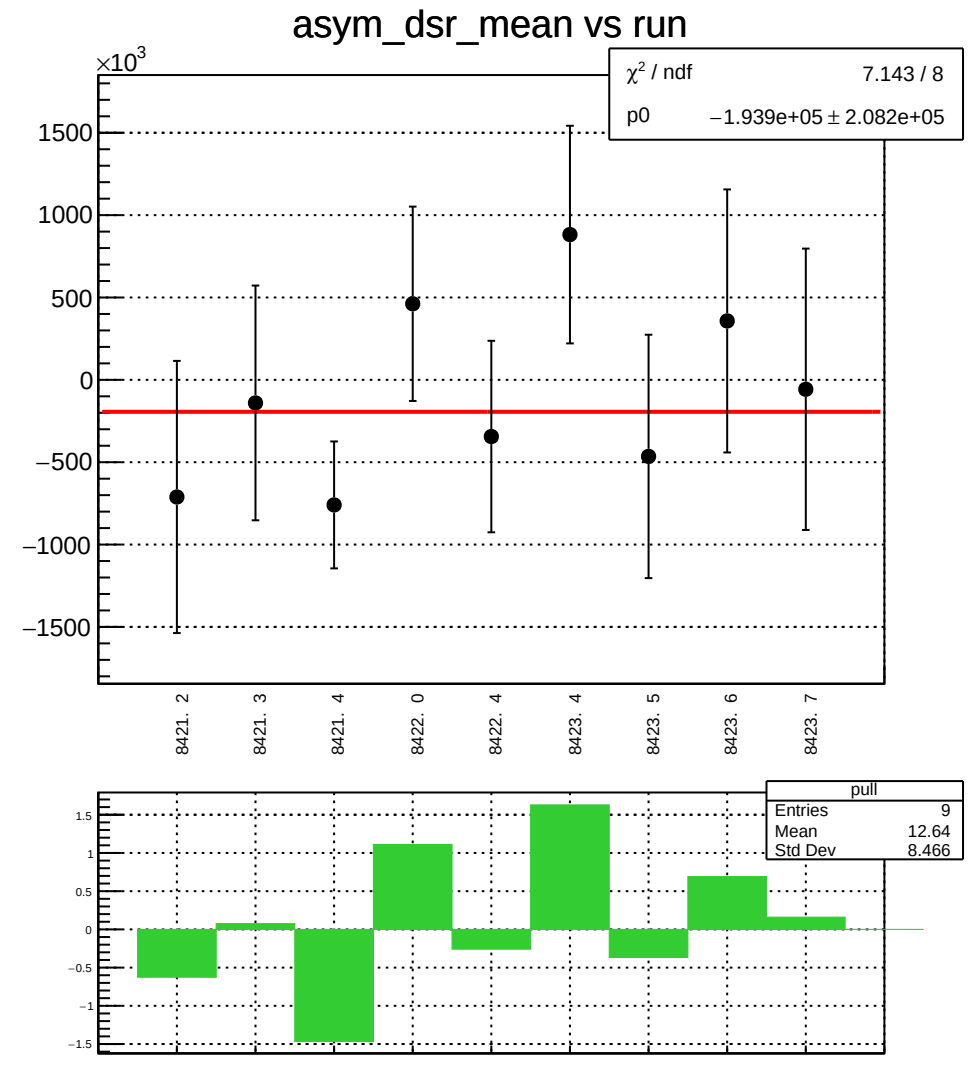

pull1D
Entries 9
Mean 0.1041
Std Dev 0.8914
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

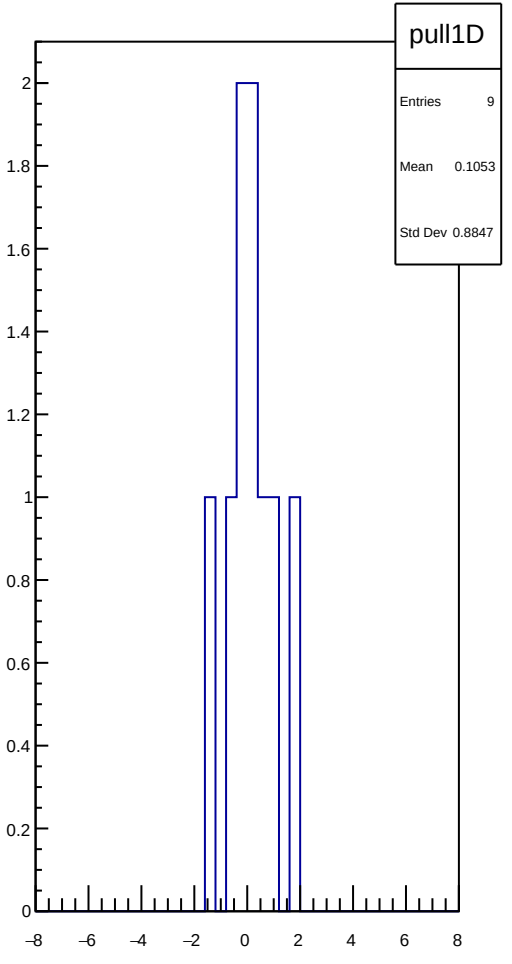

reg_asym_dsr_rms vs run
×10^3
χ^2 / ndf 1.186e+05 / 19
p0 6.995e+04 ± 135.6
1000
900
800
700
600
500
400
300
200
100
8421. 0
8421. 1
8421. 2
8421. 3
8421. 4
8422. 0
8422. 1
8422. 2
8422. 3
8422. 4
8422. 5
8422. 6
8423. 2
8423. 3
8423. 4
8423. 5
8423. 6
8423. 7
8425. 1
8425. 3

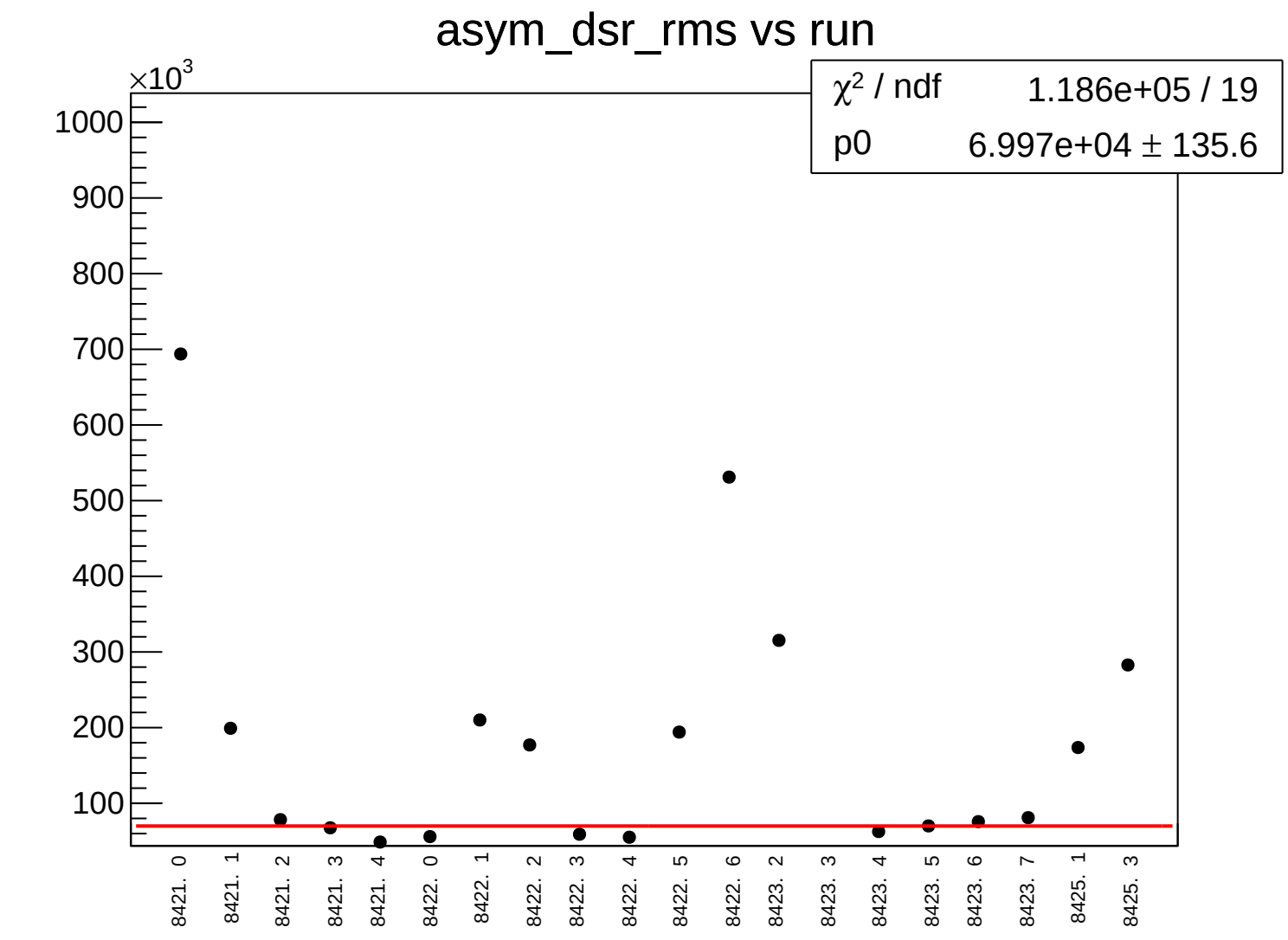

asym_dsr_correction_mean vs run
×10^3
χ^2 / ndf 25.7 / 35
p0 3769 ± 3859
1000
500
0
−500
−1000
8394. 7
8411. 0
8411. 2
8411. 7
8414. 2
8415. 2
8415. 3
8416. 1
8416. 4
8416. 6
8421. 0
8421. 1
8421. 2
8421. 3
8421. 4
8422. 0
8422. 1
8422. 2
8422. 3
8422. 4
8422. 5
8422. 6
8423. 1
8423. 2
8423. 3
8423. 4
8423. 5
8423. 6
8423. 7
8424. 2
8424. 4
8424. 6
8425. 0
8425. 1
8425. 2
8425. 3
pull
Entries 36
Mean 24.61
Std Dev 6.146
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

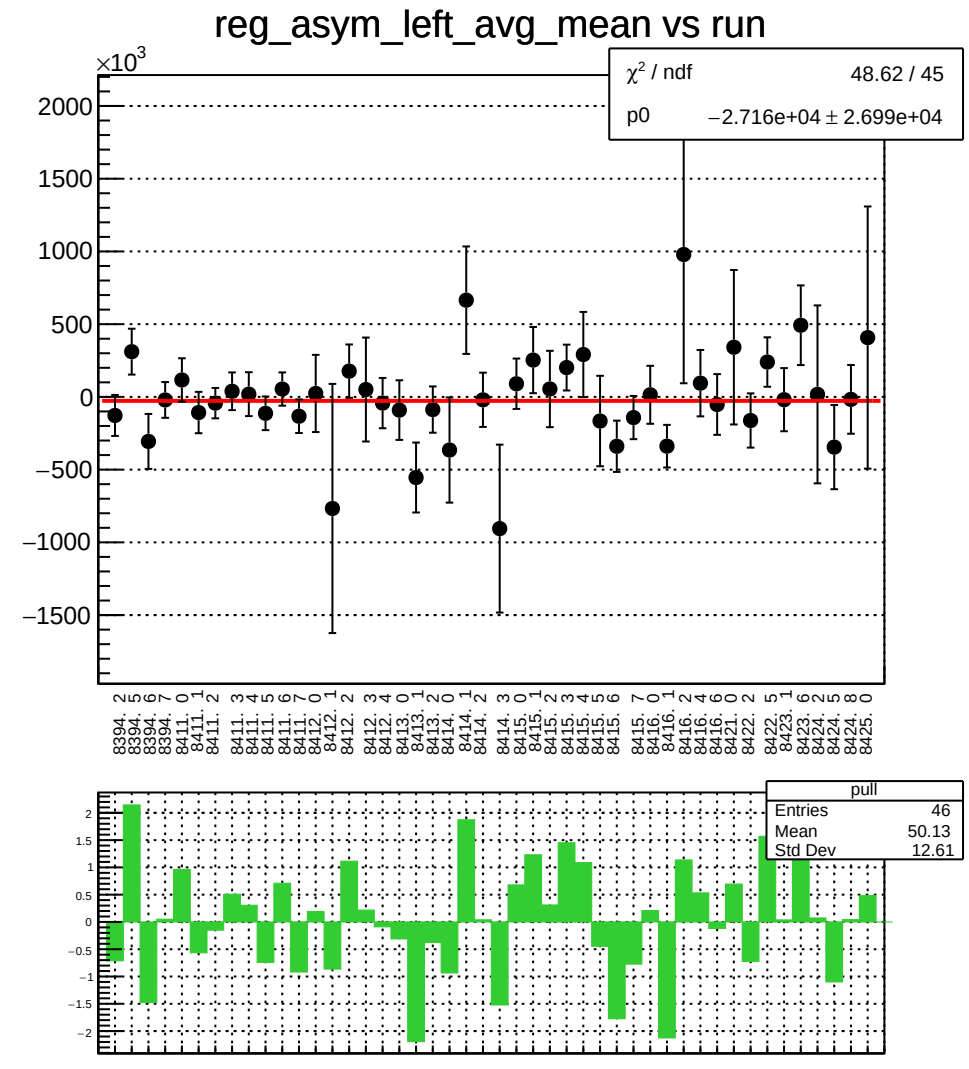

pull1D
Entries 36
Mean 0.07478
Std Dev 0.8416
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

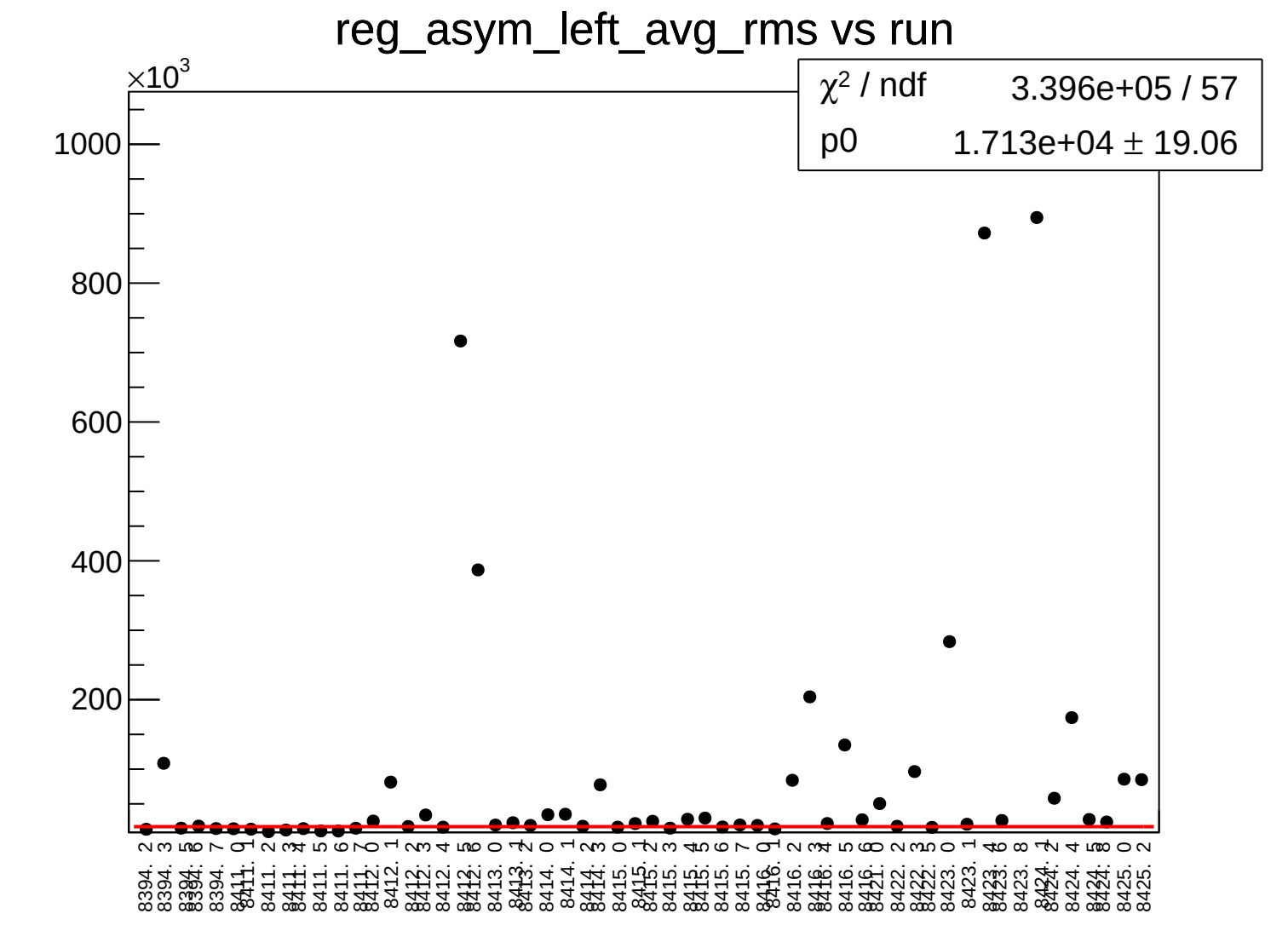

asym_dsr_correction_rms vs run
×10^3
χ^2 / ndf 1.182e+06 / 74
p0 1453 ± 2.728
900
800
700
600
500
400
300
200
100

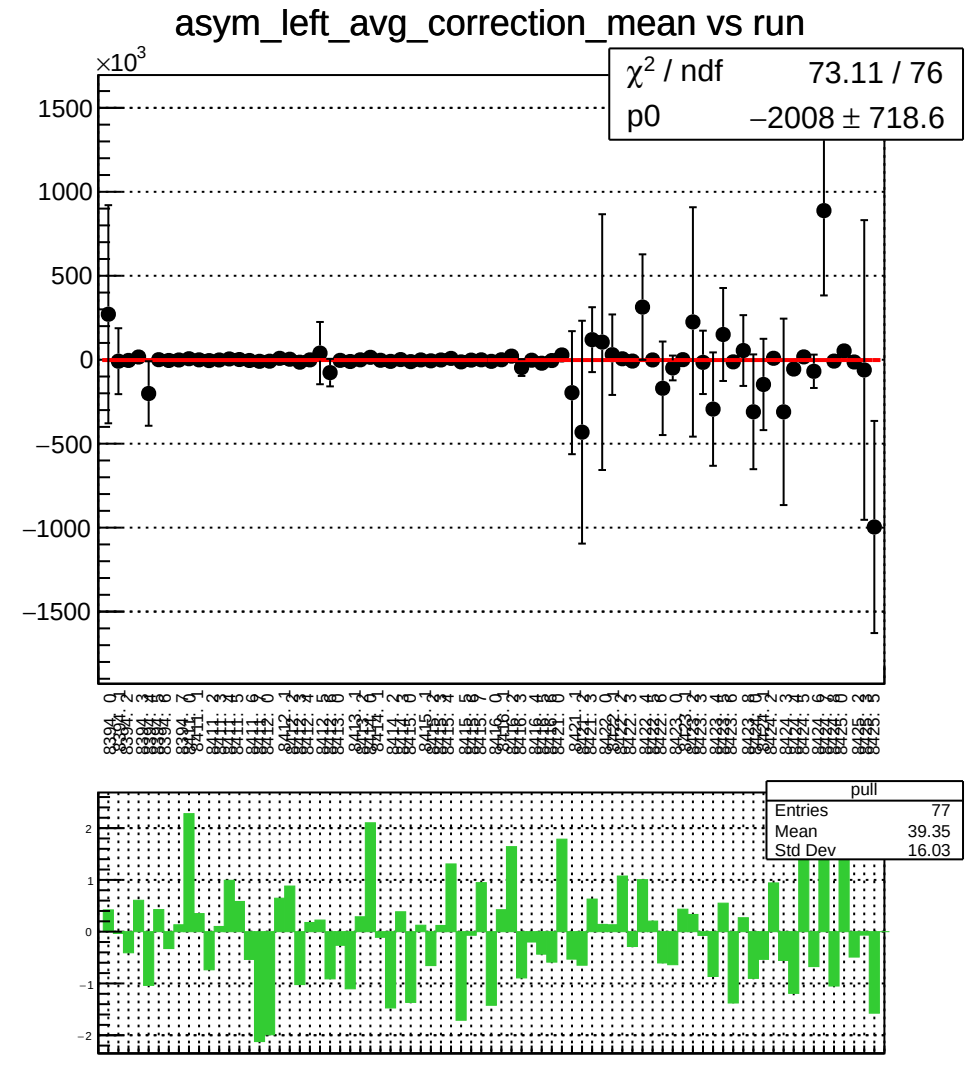

asym_dsr_mean vs run
×10^3
χ² / ndf 7.143 / 8
p0 −1.939e+05 ± 2.082e+05
1500
1000
500
0
−500
−1000
−1500
8421. 2
8421. 3
8421. 4
8422. 0
8422. 4
8423. 4
8423. 5
8423. 6
8423. 7
pull
Entries 9
Mean 12.64
Std Dev 8.466
1.5
1
0.5
0
−0.5
−1
−1.5

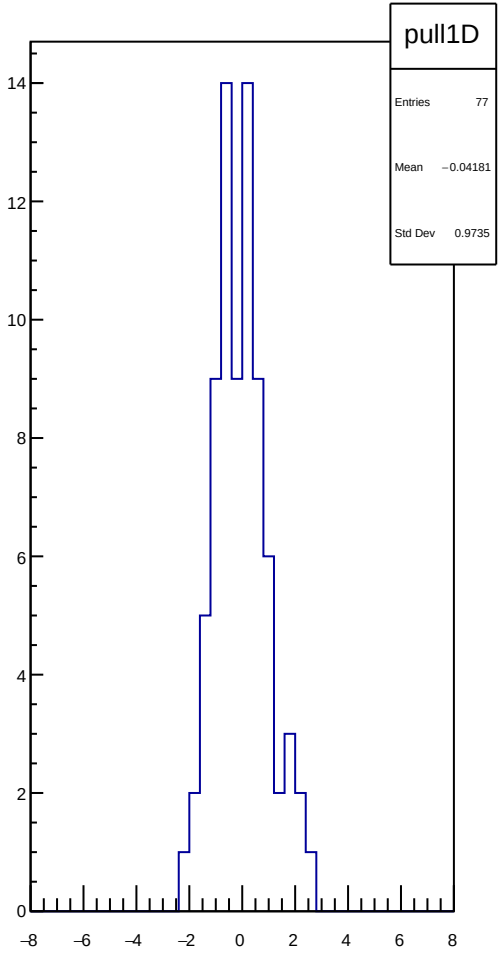

pull1D
Entries 9
Mean 0.1053
Std Dev 0.8847
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsr_rms vs run
×10^3
χ² / ndf 1.186e+05 / 19
p0 6.997e+04 ± 135.6
1000
900
800
700
600
500
400
300
200
100
8421. 0
8421. 1
8421. 2
8421. 3
8421. 4
8422. 0
8422. 1
8422. 2
8422. 3
8422. 4
8422. 5
8422. 6
8423. 2
8423. 3
8423. 4
8423. 5
8423. 6
8423. 7
8425. 1
8425. 3

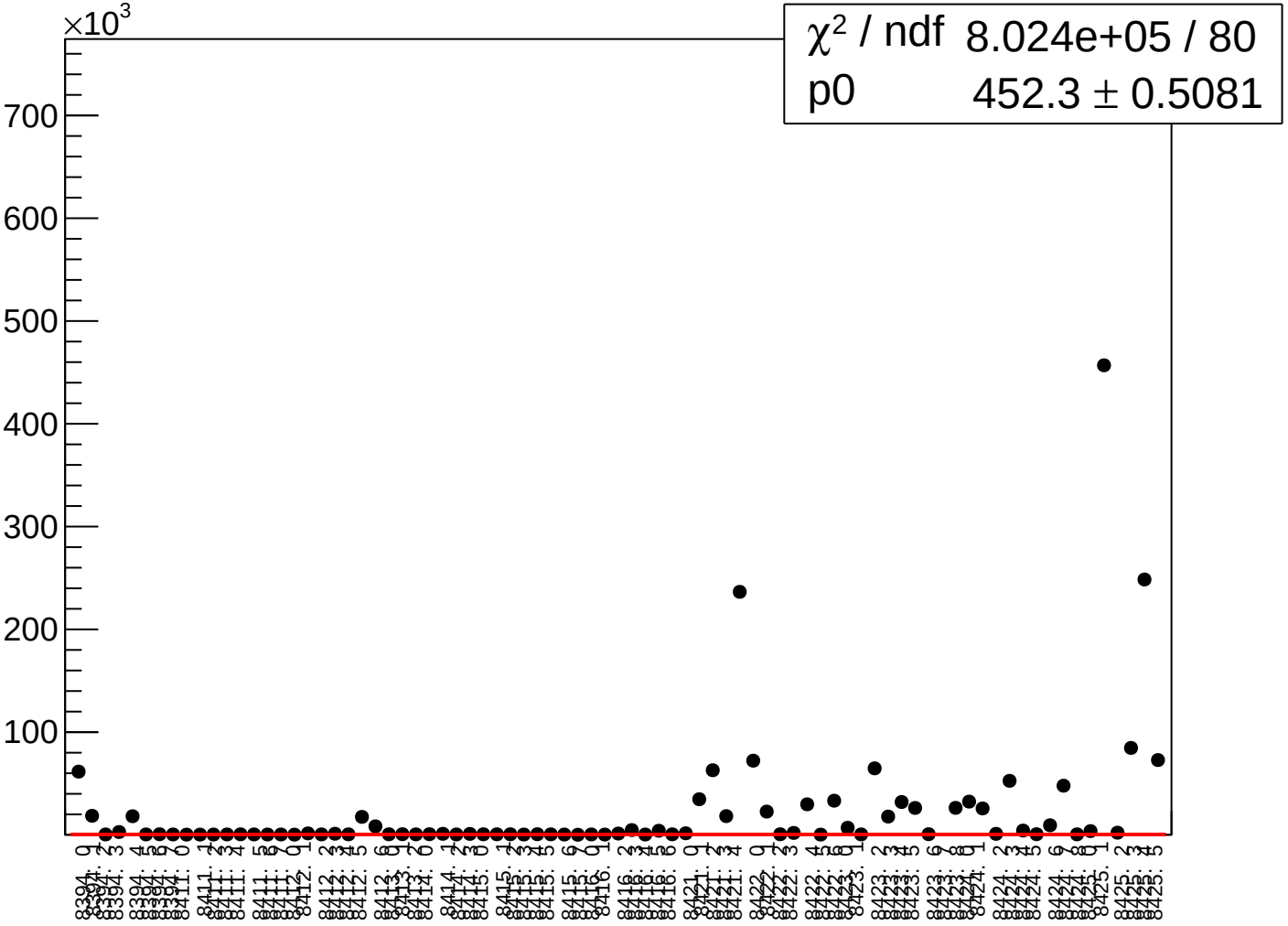

reg_asym_left_avg_mean vs run
×10^3
χ² / ndf 48.62 / 45
p0 −2.716e+04 ± 2.699e+04
2000
1500
1000
500
0
−500
−1000
−1500
8394. 2
8394. 5
8394. 6
8394. 7
8411. 0
8411. 1
8411. 2
8411. 3
8411. 4
8411. 5
8411. 6
8411. 7
8412. 0
8412. 1
8412. 2
8412. 3
8412. 4
8413. 0
8413. 1
8413. 2
8414. 0
8414. 1
8414. 2
8414. 3
8415. 0
8415. 1
8415. 2
8415. 3
8415. 4
8415. 5
8415. 6
8415. 7
8416. 0
8416. 1
8416. 2
8416. 4
8416. 6
8421. 0
8422. 2
8422. 5
8423. 1
8423. 6
8424. 2
8424. 5
8424. 8
8425. 0
pull
Entries 46
Mean 50.13
Std Dev 12.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean 0.03557
Std Dev 1.027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

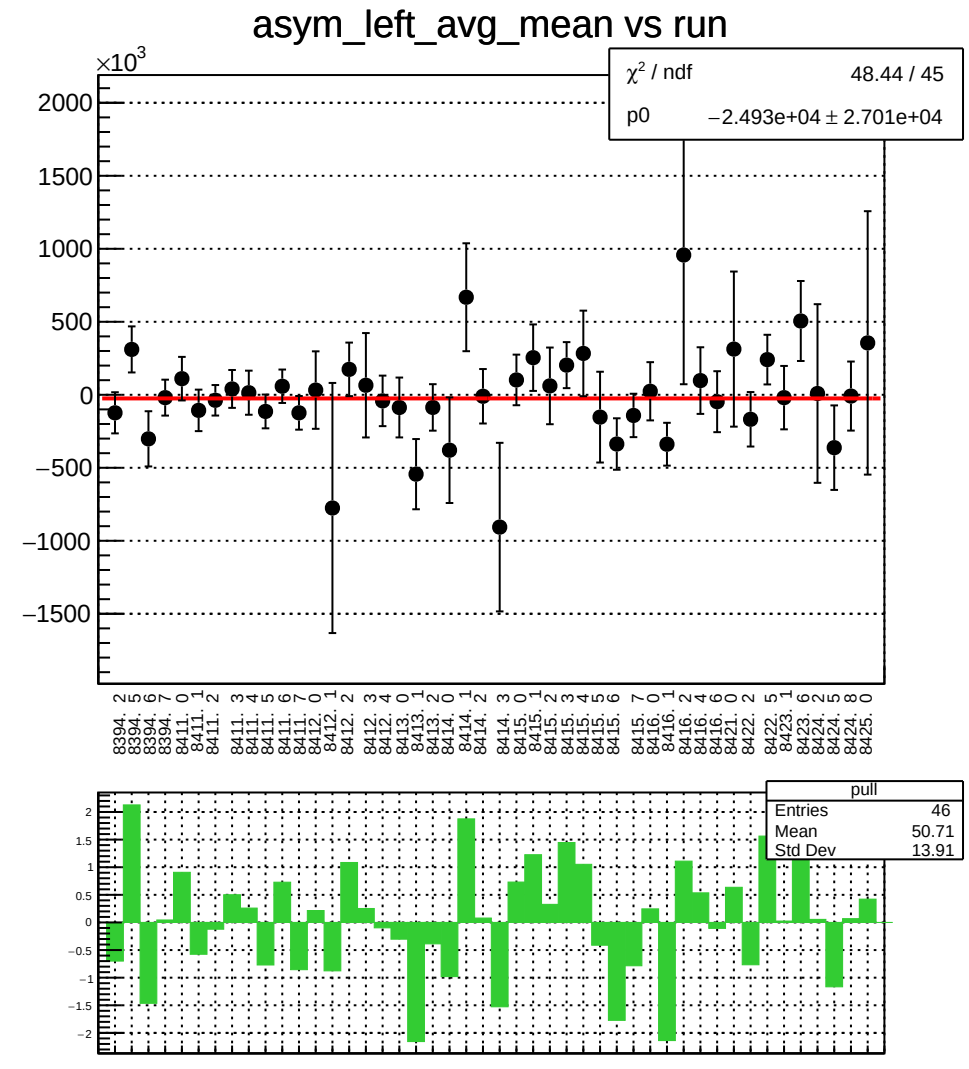

reg_asym_left_avg_rms vs run
×10^3
χ² / ndf 3.396e+05 / 57
p0 1.713e+04 ± 19.06
1000
800
600
400
200

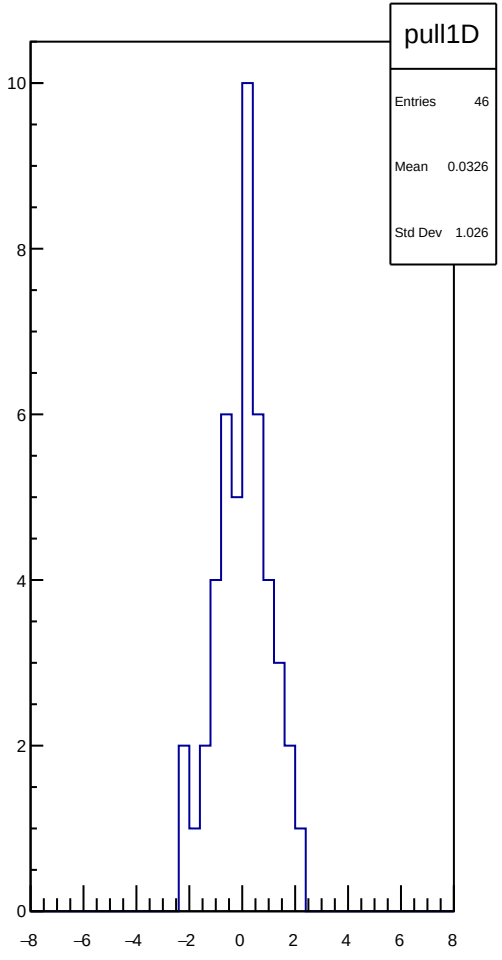

asym_left_avg_correction_mean vs run
×10^3
χ² / ndf 73.11 / 76
p0 −2008 ± 718.6
1500
1000
500
0
−500
−1000
−1500
pull
Entries 77
Mean 39.35
Std Dev 16.03
2
1
0
−1
−2

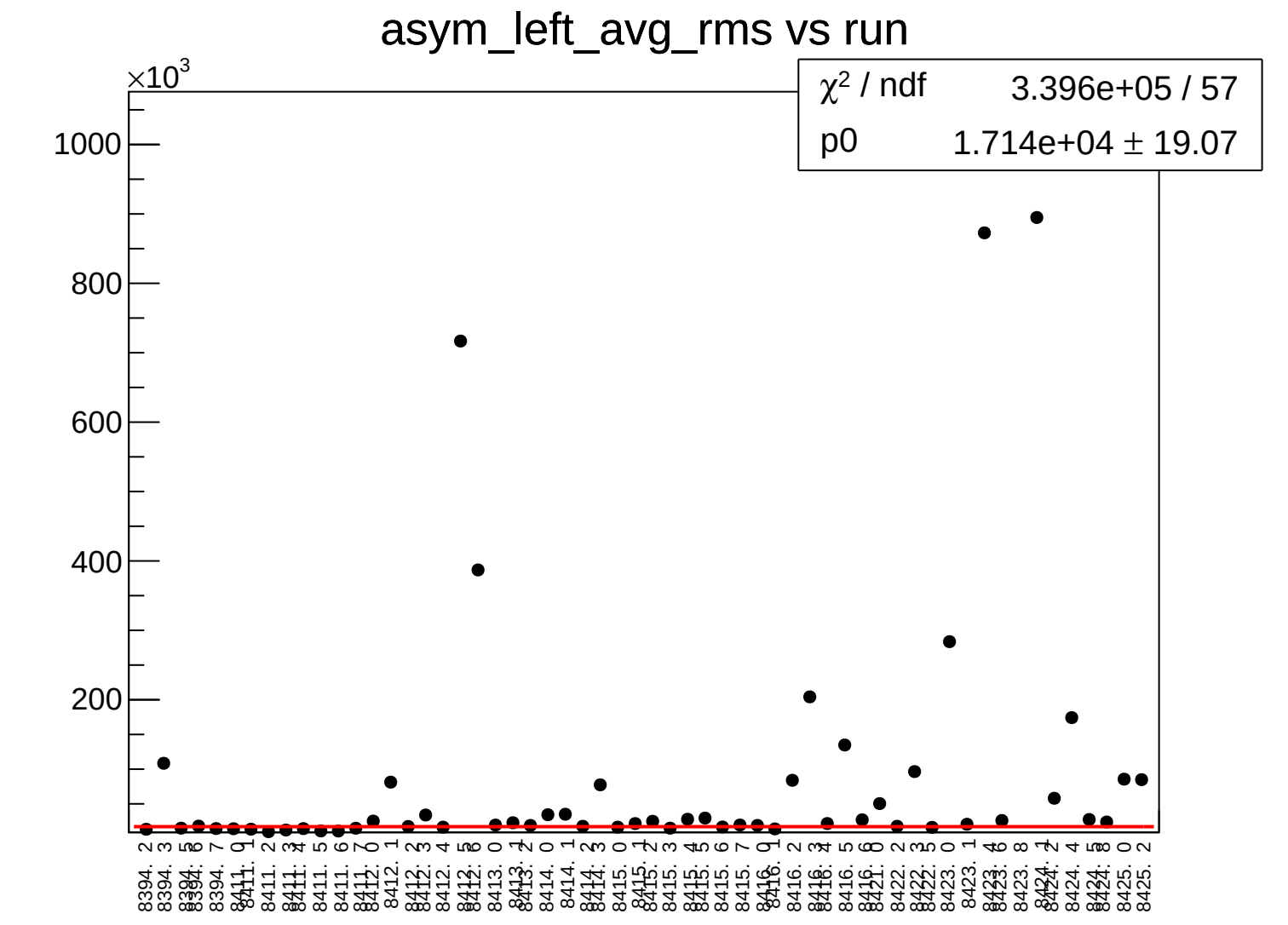

pull1D
Entries 77
Mean −0.04181
Std Dev 0.9735
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

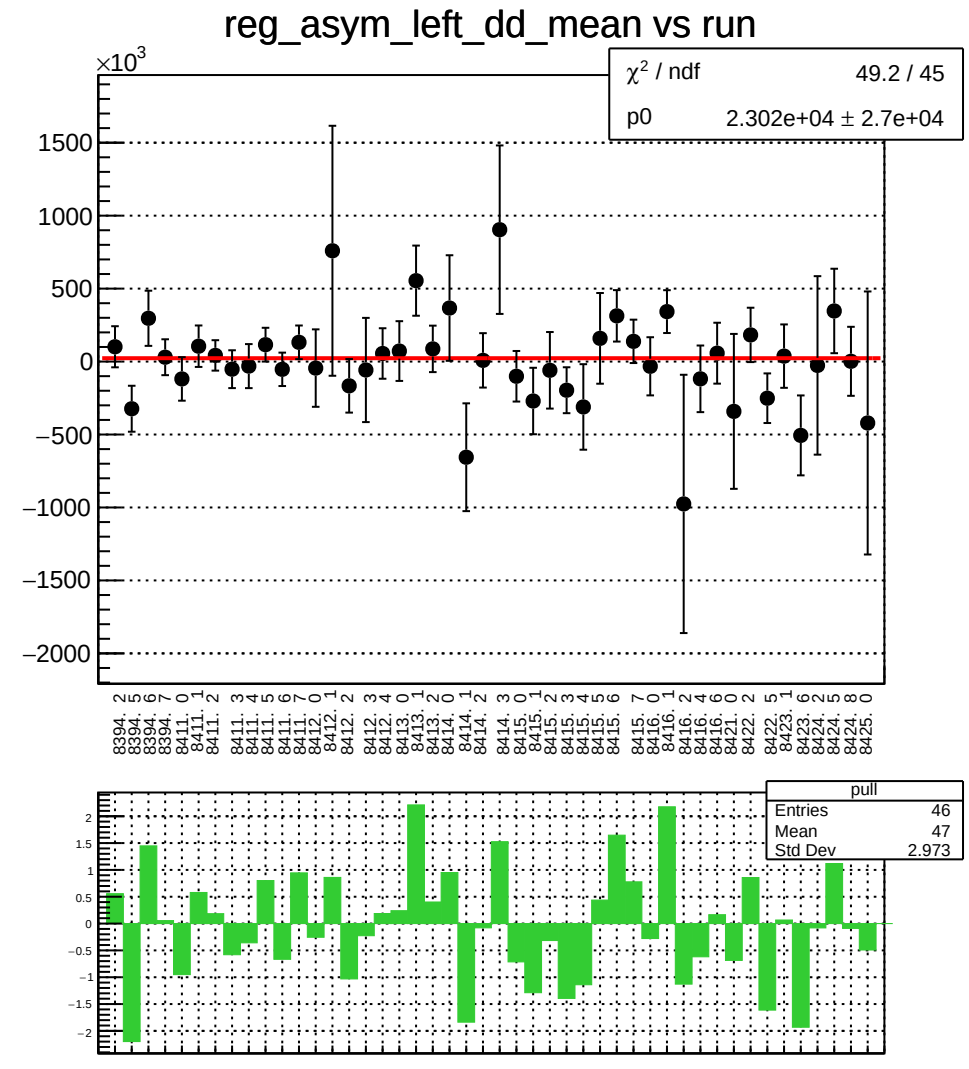
asym_left_avg_correction_rms vs run

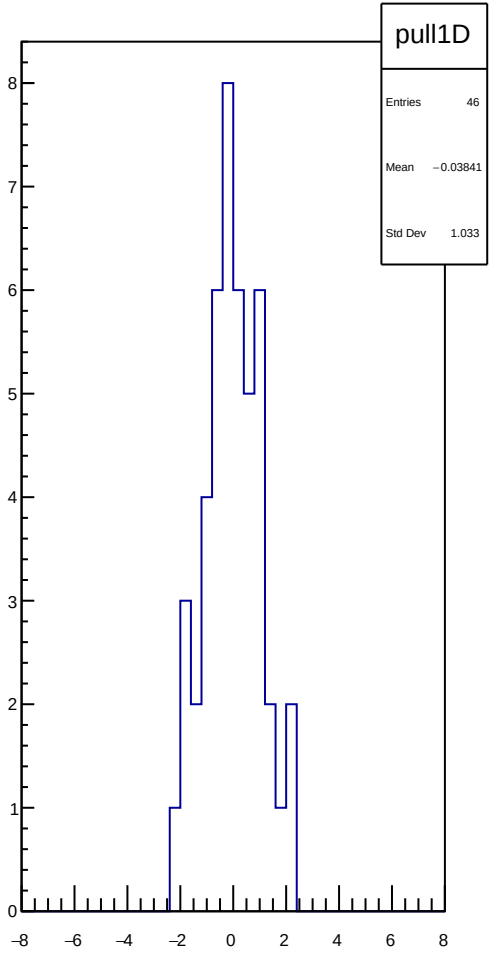


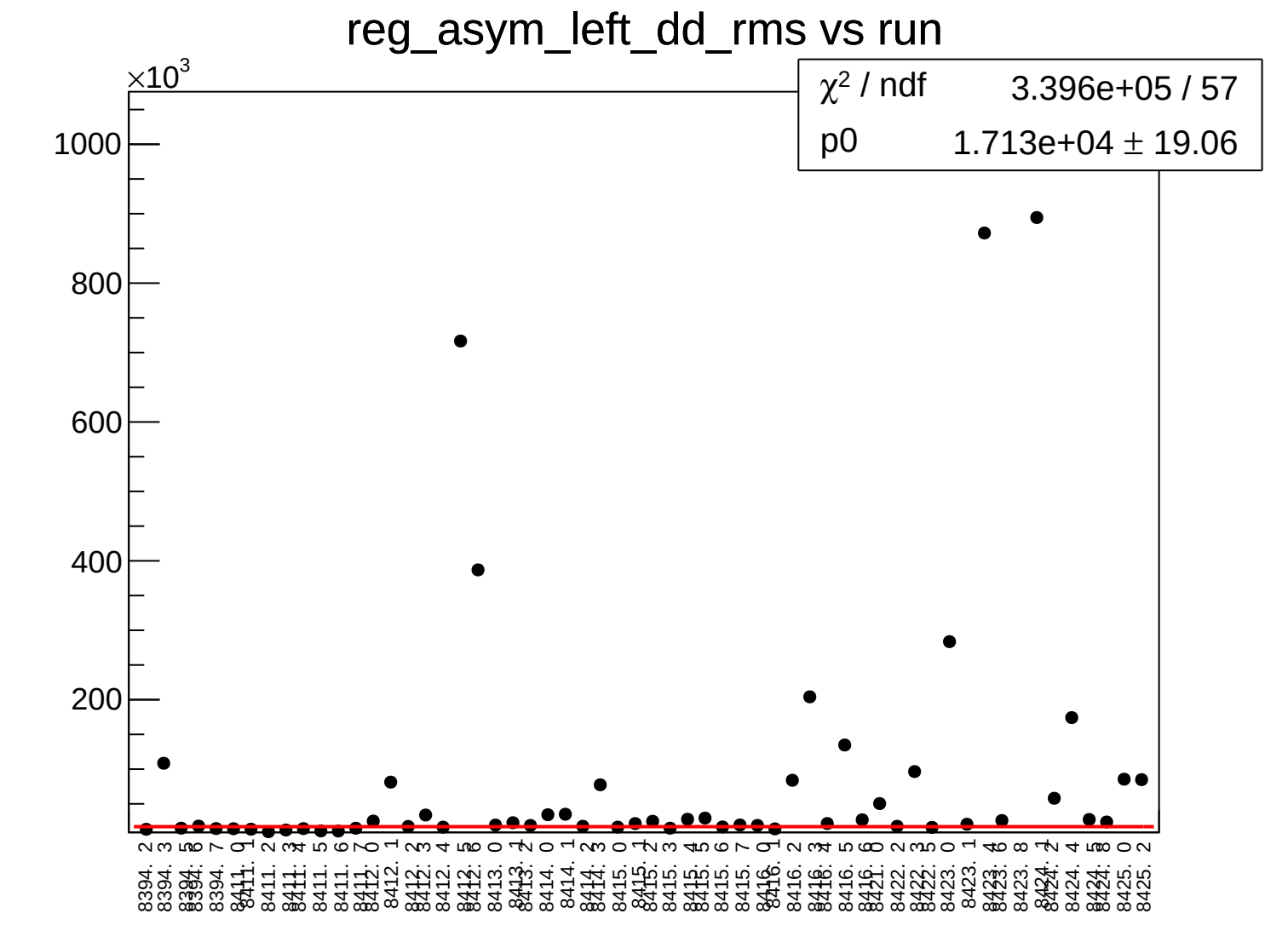

asym_left_avg_mean vs run
×10^3
χ² / ndf 48.44 / 45
p0 −2.493e+04 ± 2.701e+04
pull
Entries 46
Mean 50.71
Std Dev 13.91

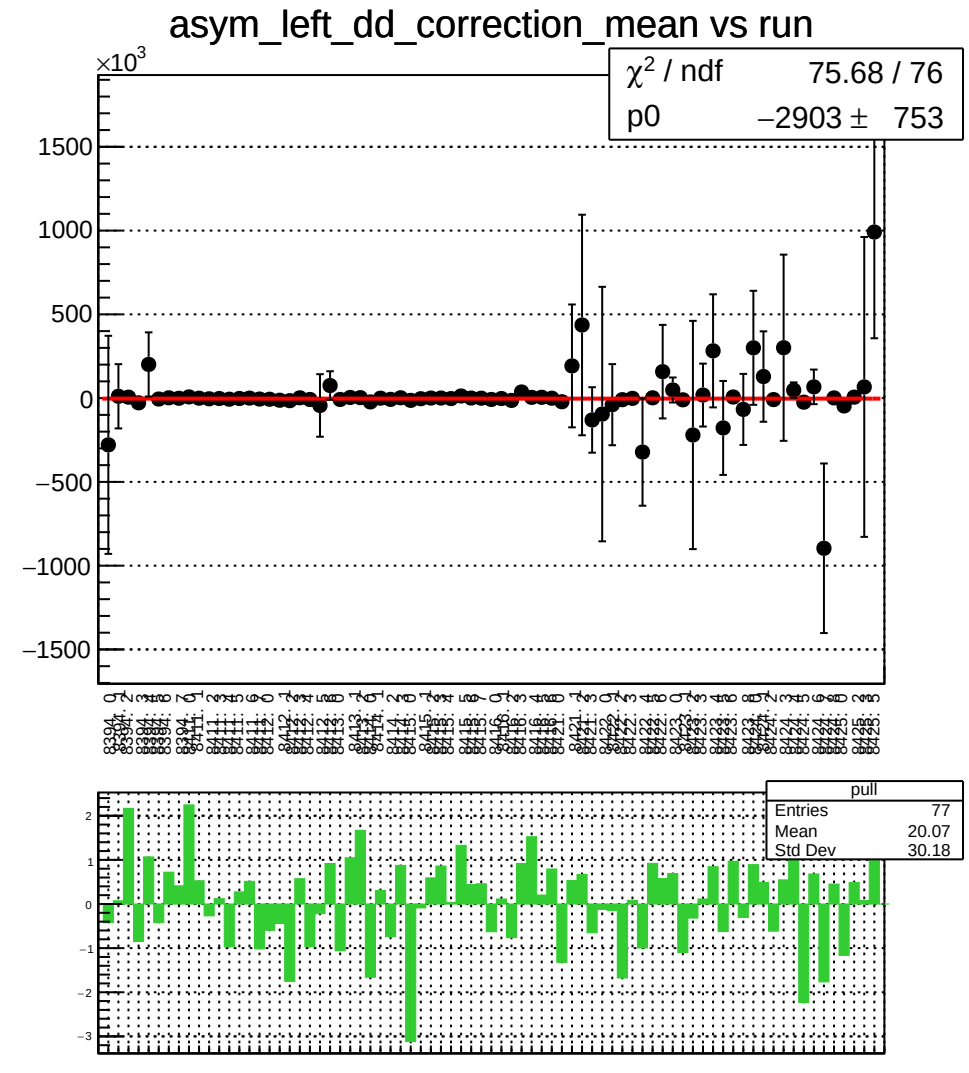

pull1D
Entries 46
Mean 0.0326
Std Dev 1.026

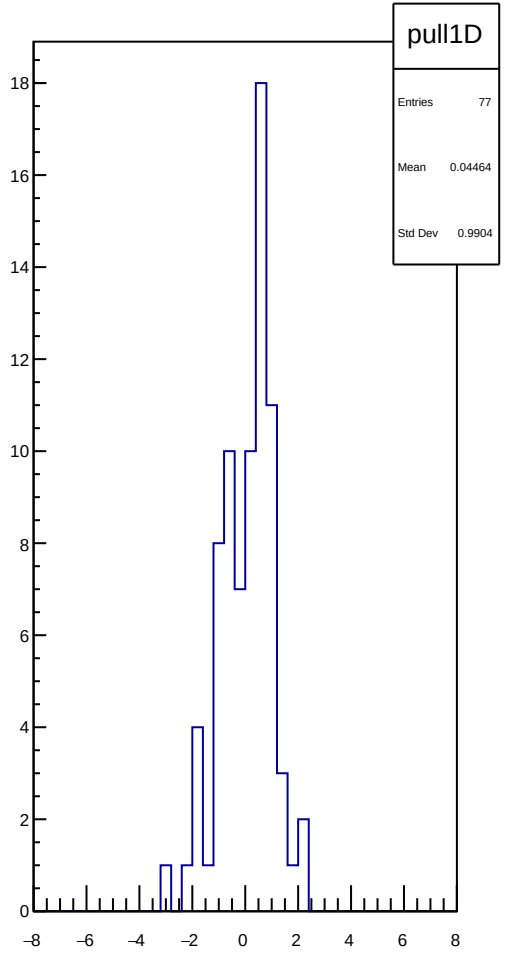

asym_left_avg_rms vs run
×10^3
χ² / ndf 3.396e+05 / 57
p0 1.714e+04 ± 19.07
1000
800
600
400
200

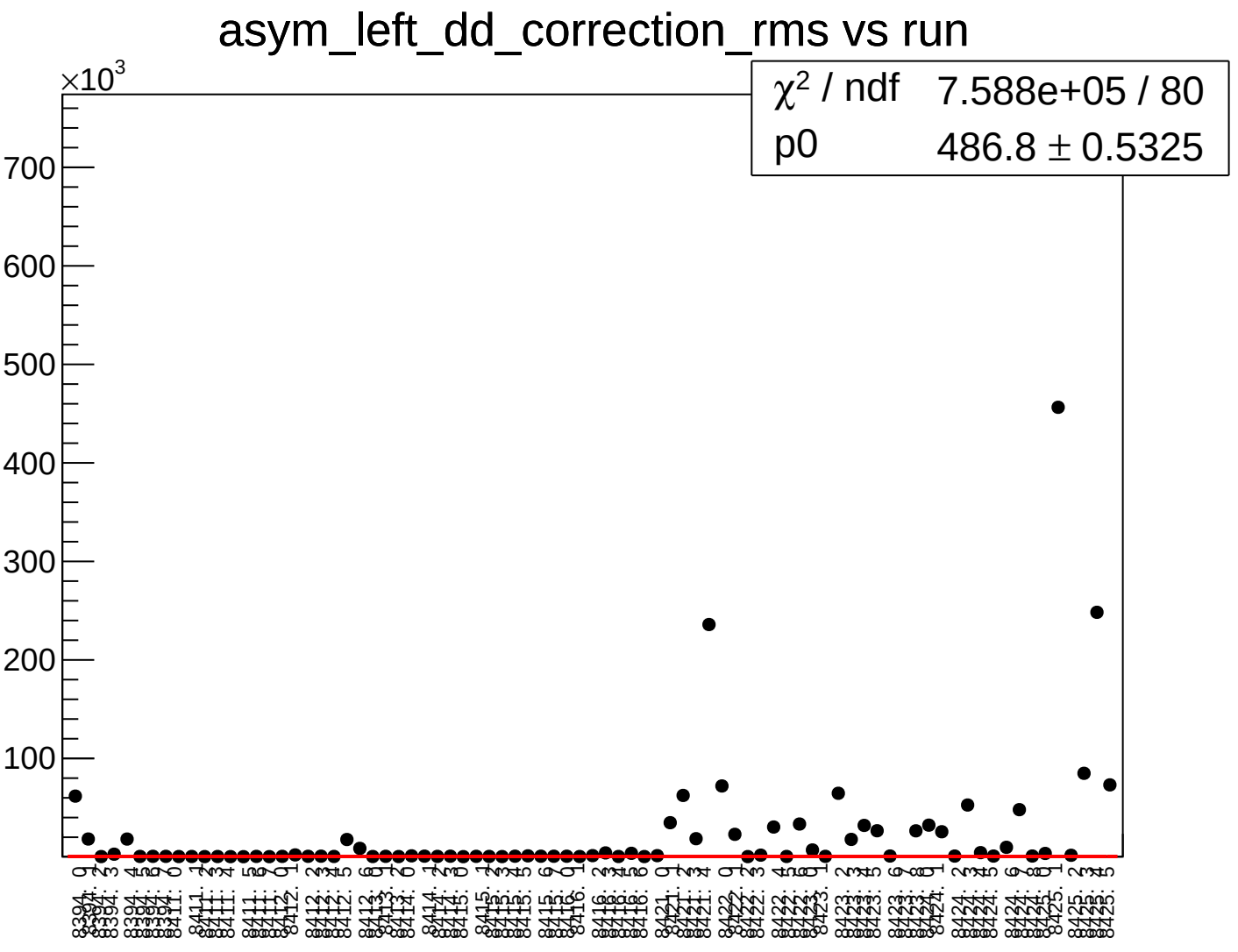

reg_asym_left_dd_mean vs run
×10^3
χ² / ndf 49.2 / 45
p0 2.302e+04 ± 2.7e+04
1500
1000
500
0
−500
−1000
−1500
−2000
8394. 2
8394. 5
8394. 6
8394. 7
8411. 0
8411. 1
8411. 2
8411. 3
8411. 4
8411. 5
8411. 6
8411. 7
8412. 0
8412. 1
8412. 2
8412. 3
8412. 4
8413. 0
8413. 1
8413. 2
8414. 0
8414. 1
8414. 2
8414. 3
8415. 0
8415. 1
8415. 2
8415. 3
8415. 4
8415. 5
8415. 6
8415. 7
8416. 0
8416. 1
8416. 2
8416. 4
8416. 6
8421. 0
8422. 2
8422. 5
8423. 1
8423. 6
8424. 2
8424. 5
8424. 8
8425. 0
pull
Entries 46
Mean 47
Std Dev 2.973
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

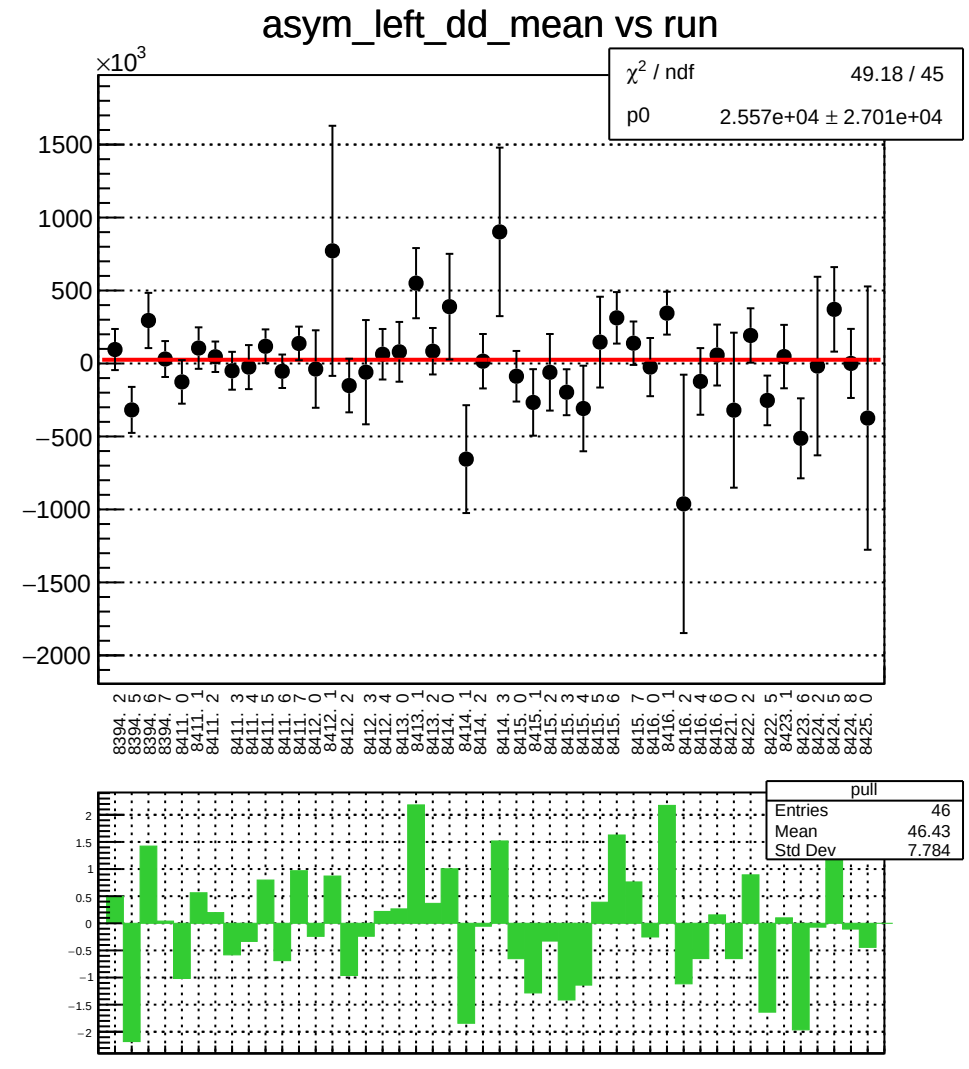

pull1D
Entries 46
Mean −0.03841
Std Dev 1.033
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

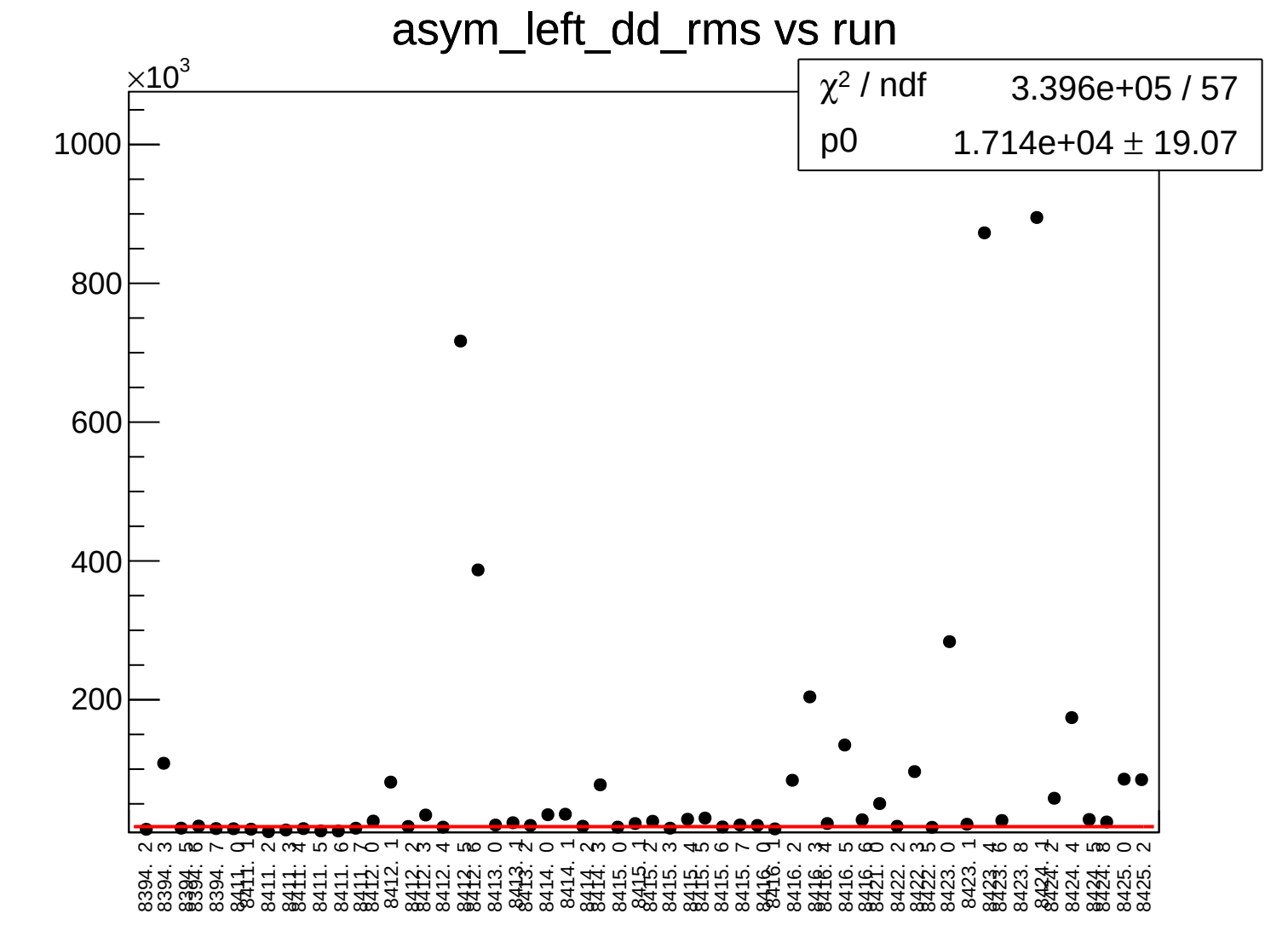

reg_asym_left_dd_rms vs run
×10^3
χ² / ndf 3.396e+05 / 57
p0 1.713e+04 ± 19.06
1000
800
600
400
200

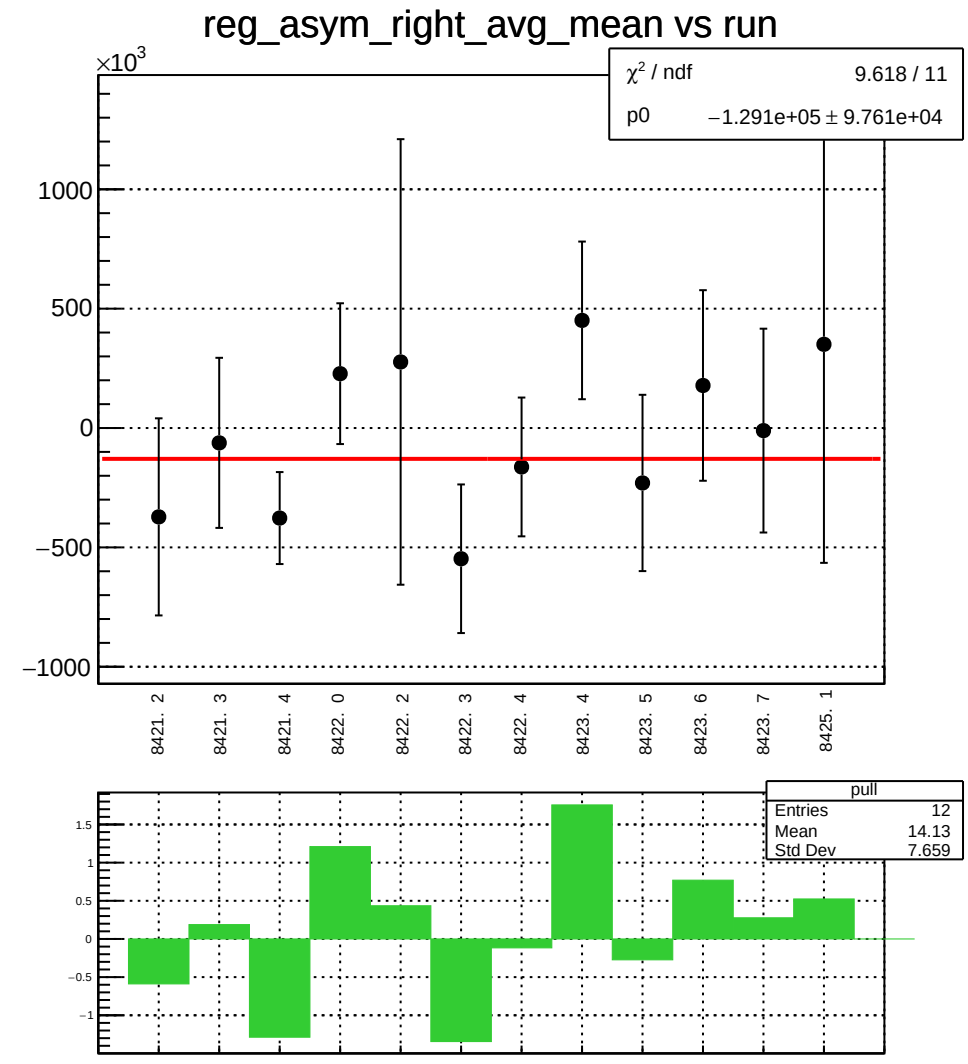

asym_left_dd_correction_mean vs run
×10^3
χ^2 / ndf 75.68 / 76
p0 −2903 ± 753
1500
1000
500
0
−500
−1000
−1500
pull
Entries 77
Mean 20.07
Std Dev 30.18
2
1
0
−1
−2
−3

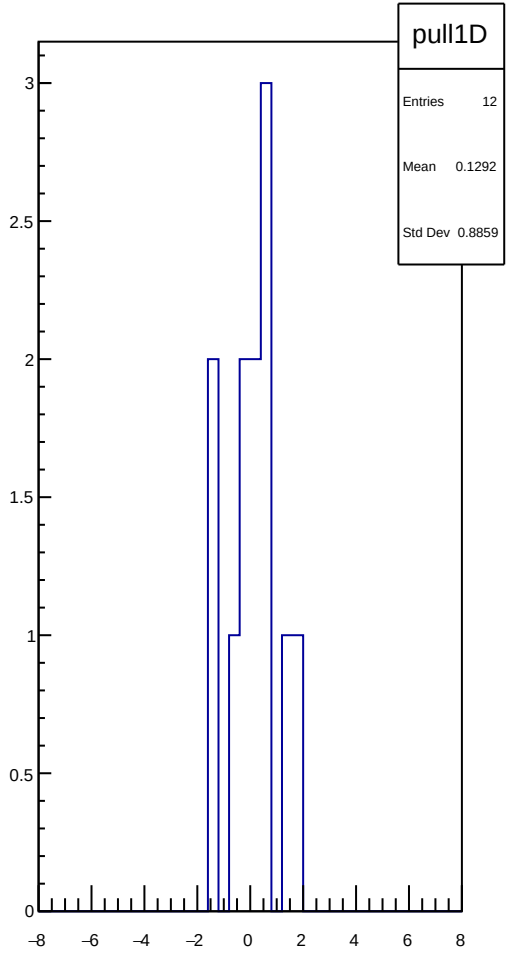

pull1D
Entries 77
Mean 0.04464
Std Dev 0.9904
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

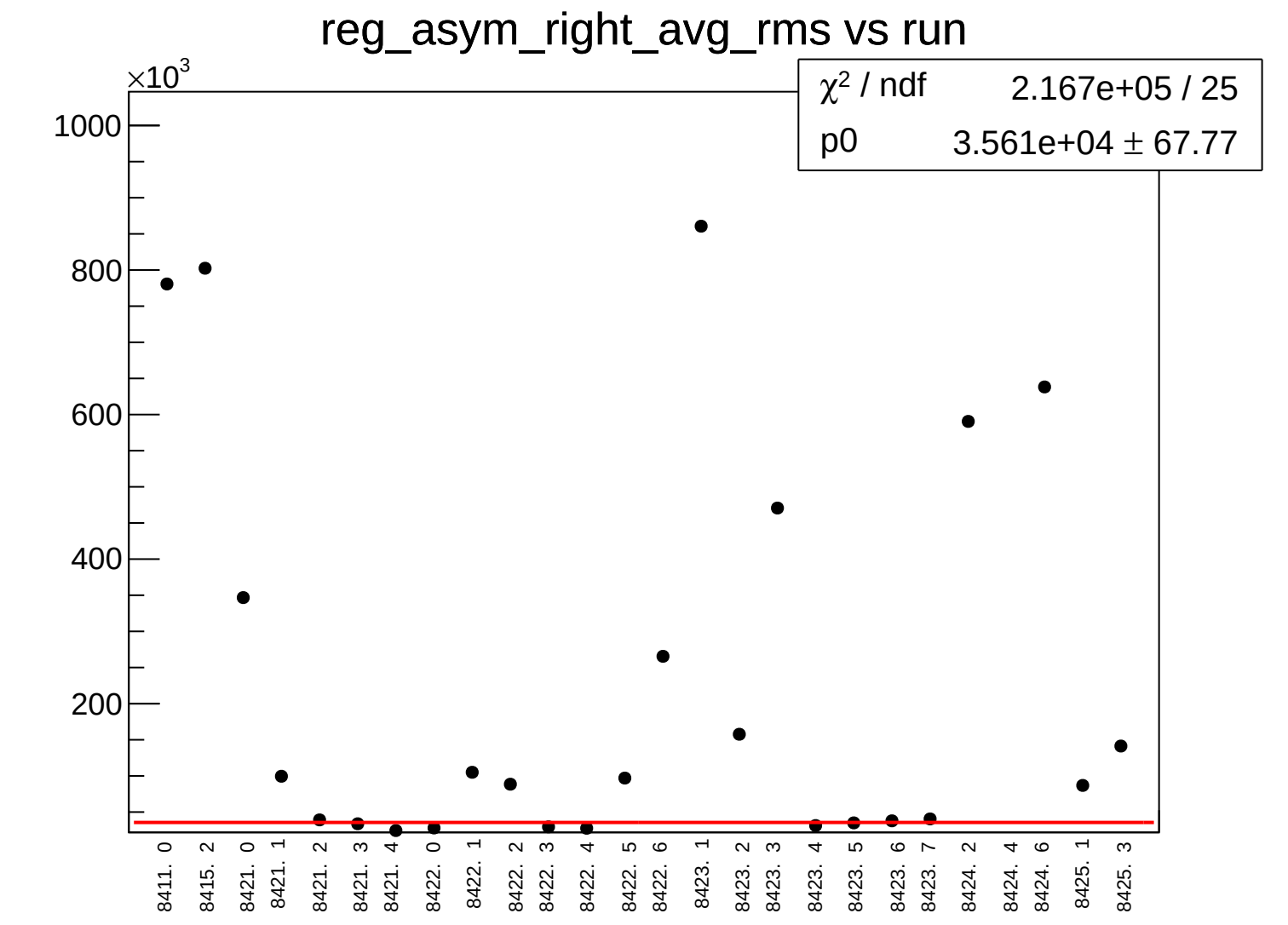

asym_left_dd_correction_rms vs run
×10^3
χ² / ndf 7.588e+05 / 80
p0 486.8 ± 0.5325
700
600
500
400
300
200
100

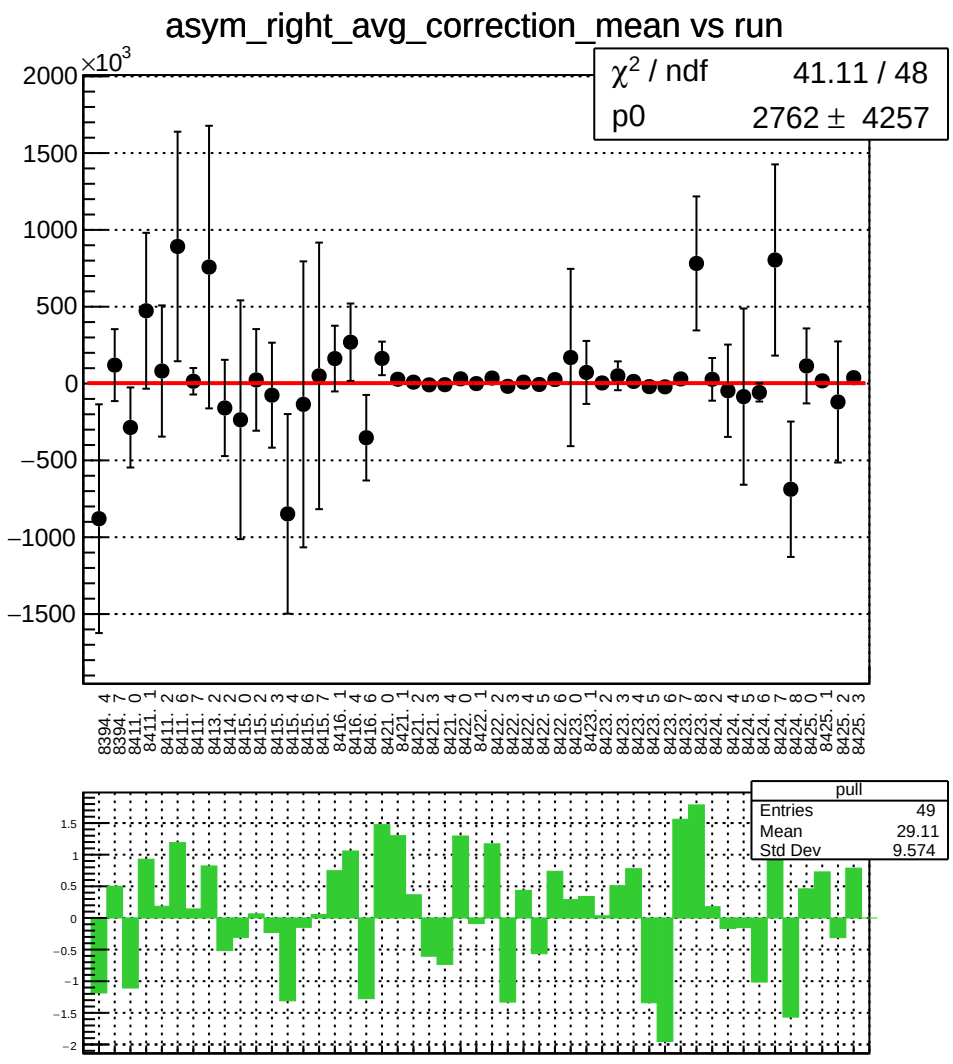

asym_left_dd_mean vs run
×10^3
χ² / ndf 49.18 / 45
p0 2.557e+04 ± 2.701e+04
1500
1000
500
0
−500
−1000
−1500
−2000
8394. 2
8394. 5
8394. 6
8394. 7
8411. 0
8411. 1
8411. 2
8411. 3
8411. 4
8411. 5
8411. 6
8411. 7
8412. 0
8412. 1
8412. 2
8412. 3
8412. 4
8413. 0
8413. 1
8413. 2
8414. 0
8414. 1
8414. 2
8414. 3
8415. 0
8415. 1
8415. 2
8415. 3
8415. 4
8415. 5
8415. 6
8415. 7
8416. 0
8416. 1
8416. 2
8416. 4
8416. 6
8421. 0
8422. 2
8422. 5
8423. 1
8423. 6
8424. 2
8424. 5
8424. 8
8425. 0
pull
Entries 46
Mean 46.43
Std Dev 7.784
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 46
Mean −0.03558
Std Dev 1.033
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

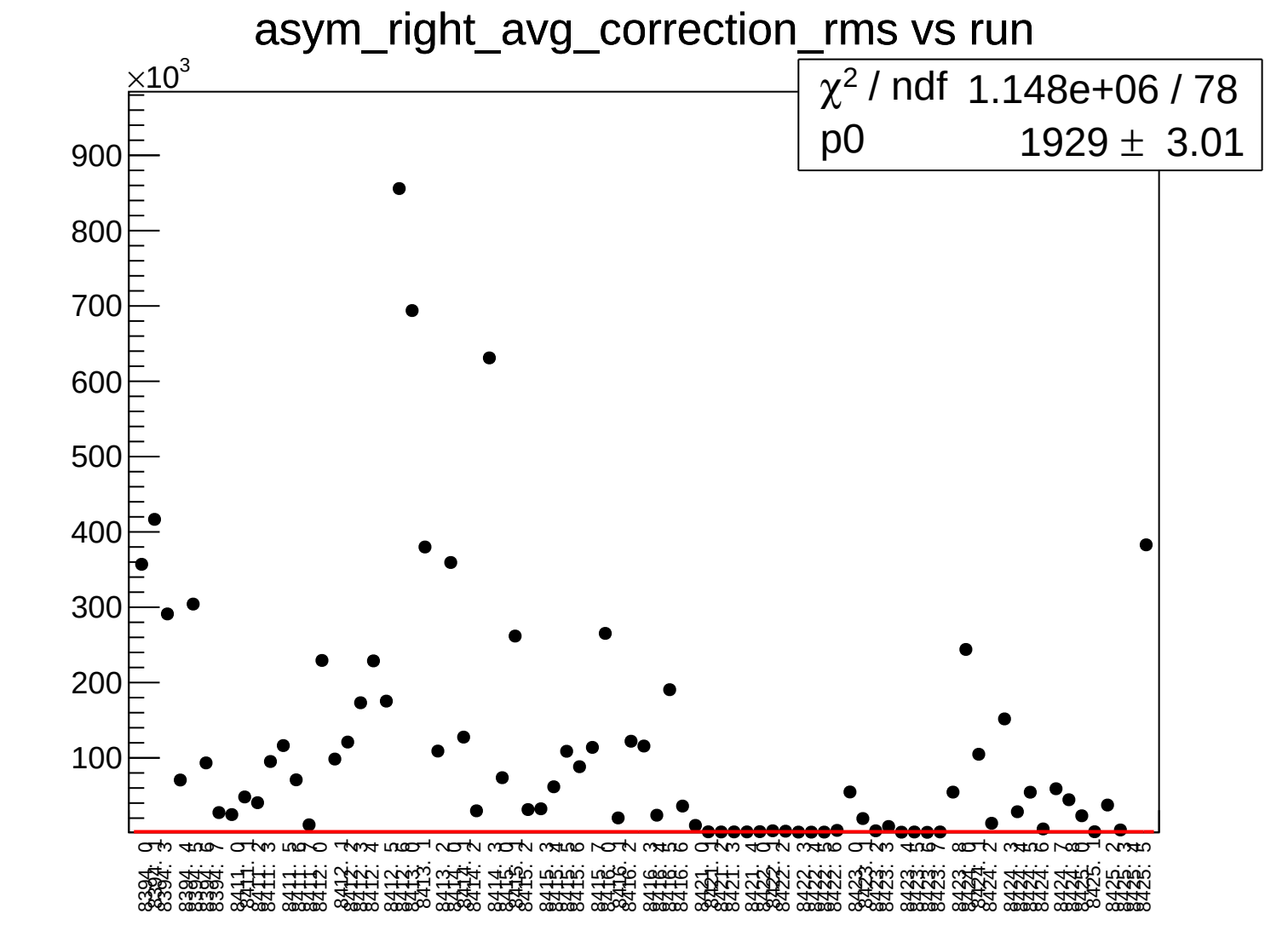

asym_left_dd_rms vs run
×10^3
χ² / ndf 3.396e+05 / 57
p0 1.714e+04 ± 19.07
1000
800
600
400
200

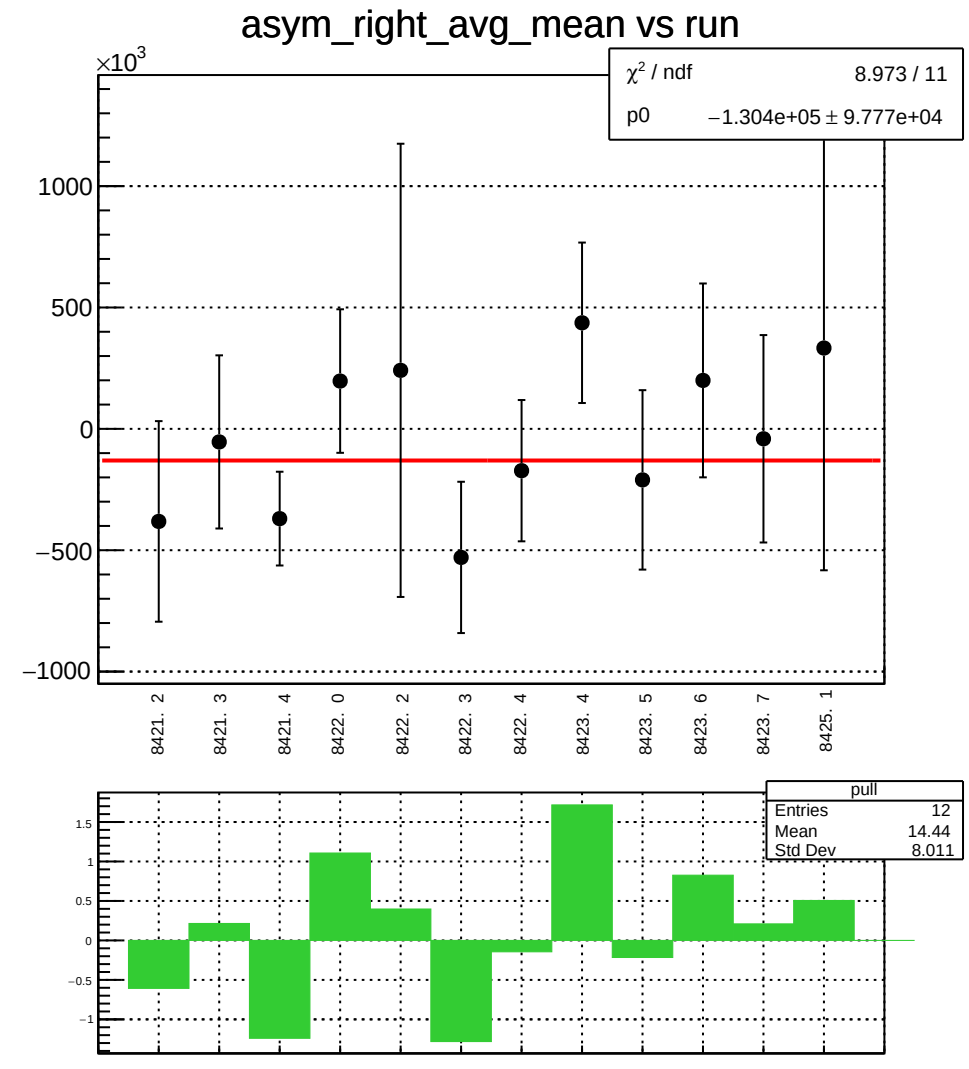

reg_asym_right_avg_mean vs run
×10^3
χ² / ndf 9.618 / 11
p0 −1.291e+05 ± 9.761e+04
1000
500
0
−500
−1000
8421. 2
8421. 3
8421. 4
8422. 0
8422. 2
8422. 3
8422. 4
8423. 4
8423. 5
8423. 6
8423. 7
8425. 1
pull
Entries 12
Mean 14.13
Std Dev 7.659
1.5
1
0.5
0
−0.5
−1

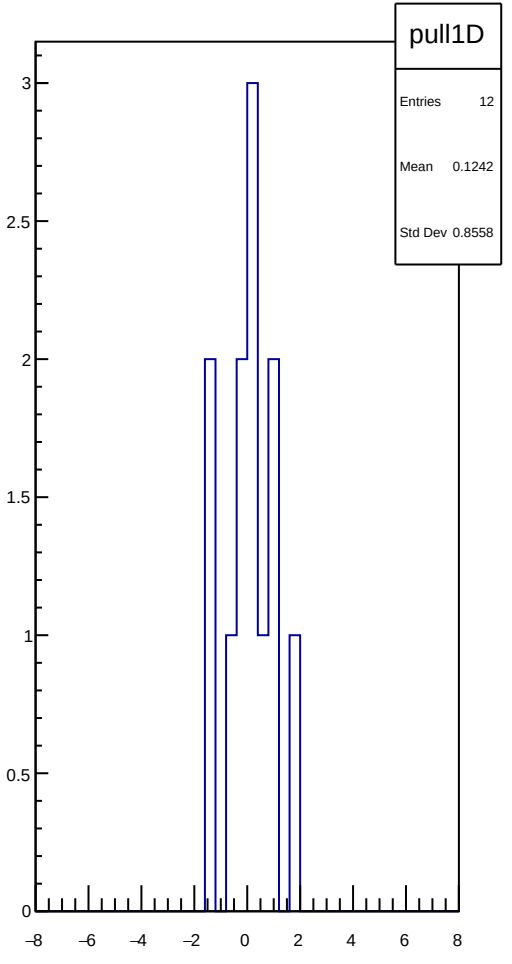

pull1D
Entries 12
Mean 0.1292
Std Dev 0.8859
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

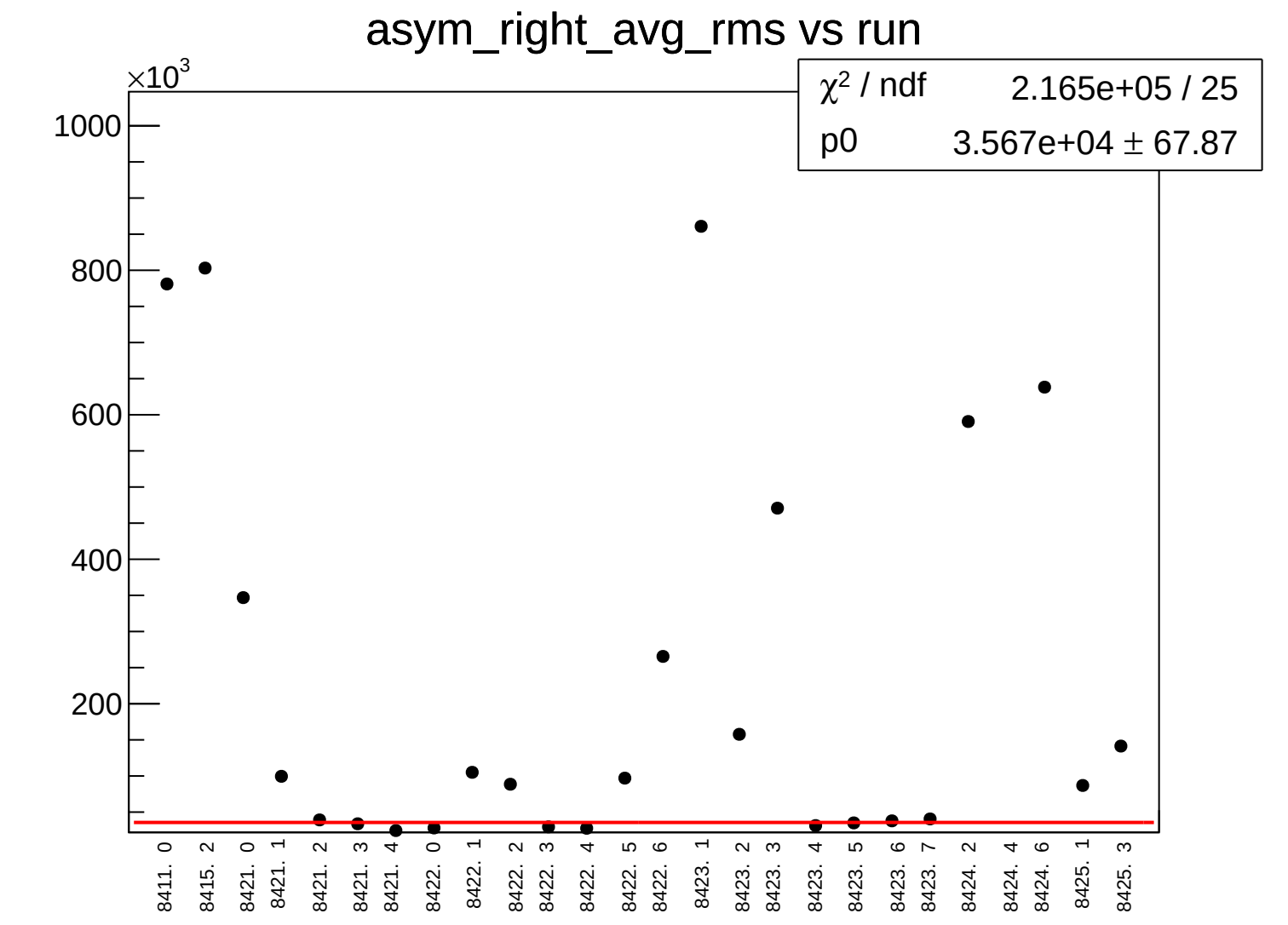

reg_asym_right_avg_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 2.167e+05 / 25
p0 3.561e+04 ± 67.77
8411. 0
8415. 2
8421. 0
8421. 1
8421. 2
8421. 3
8421. 4
8422. 0
8422. 1
8422. 2
8422. 3
8422. 4
8422. 5
8422. 6
8423. 1
8423. 2
8423. 3
8423. 4
8423. 5
8423. 6
8423. 7
8424. 2
8424. 4
8424. 6
8425. 1
8425. 3

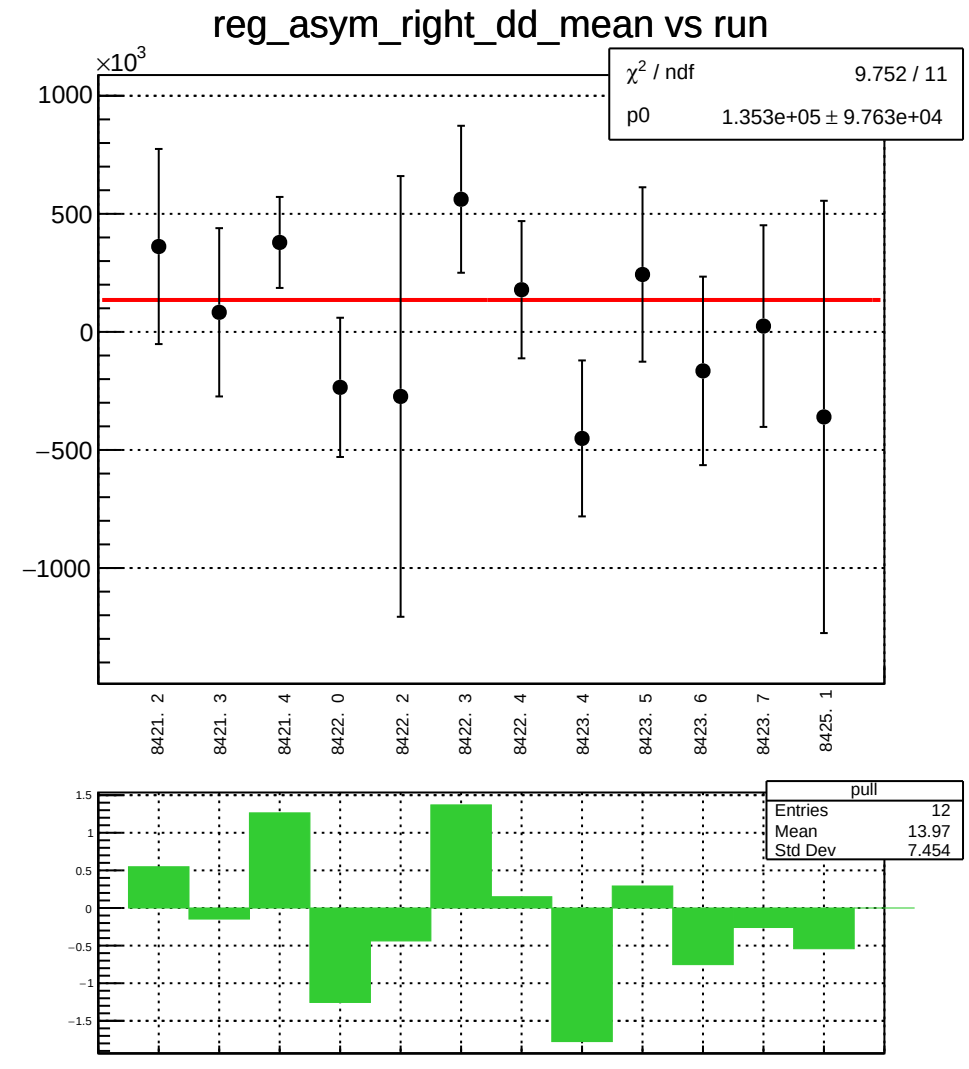

asym_right_avg_correction_mean vs run
χ² / ndf 41.11 / 48
p0 2762 ± 4257
×10³
2000
1500
1000
500
0
−500
−1000
−1500
8394. 4
8394. 7
8411. 0
8411. 1
8411. 2
8411. 6
8411. 7
8413. 2
8414. 2
8415. 0
8415. 2
8415. 3
8415. 4
8415. 6
8415. 7
8416. 1
8416. 4
8416. 6
8421. 0
8421. 1
8421. 2
8421. 3
8421. 4
8422. 0
8422. 1
8422. 2
8422. 3
8422. 4
8422. 5
8422. 6
8423. 0
8423. 1
8423. 2
8423. 3
8423. 4
8423. 5
8423. 6
8423. 7
8423. 8
8424. 2
8424. 4
8424. 5
8424. 6
8424. 7
8424. 8
8425. 0
8425. 1
8425. 2
8425. 3
pull
Entries 49
Mean 29.11
Std Dev 9.574
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean 0.1082
Std Dev 0.9096
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

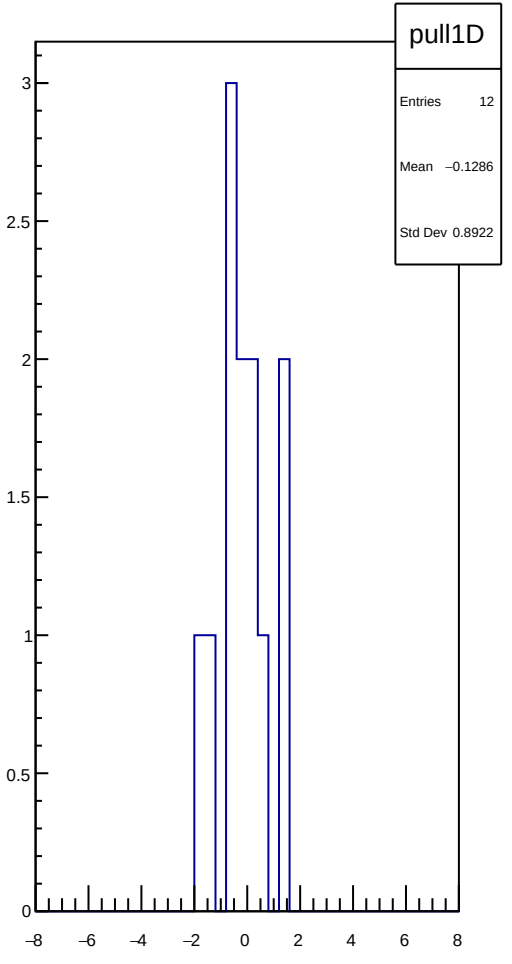

asym_right_avg_correction_rms vs run
×10^3
χ^2 / ndf 1.148e+06 / 78
p0 1929 ± 3.01
900
800
700
600
500
400
300
200
100

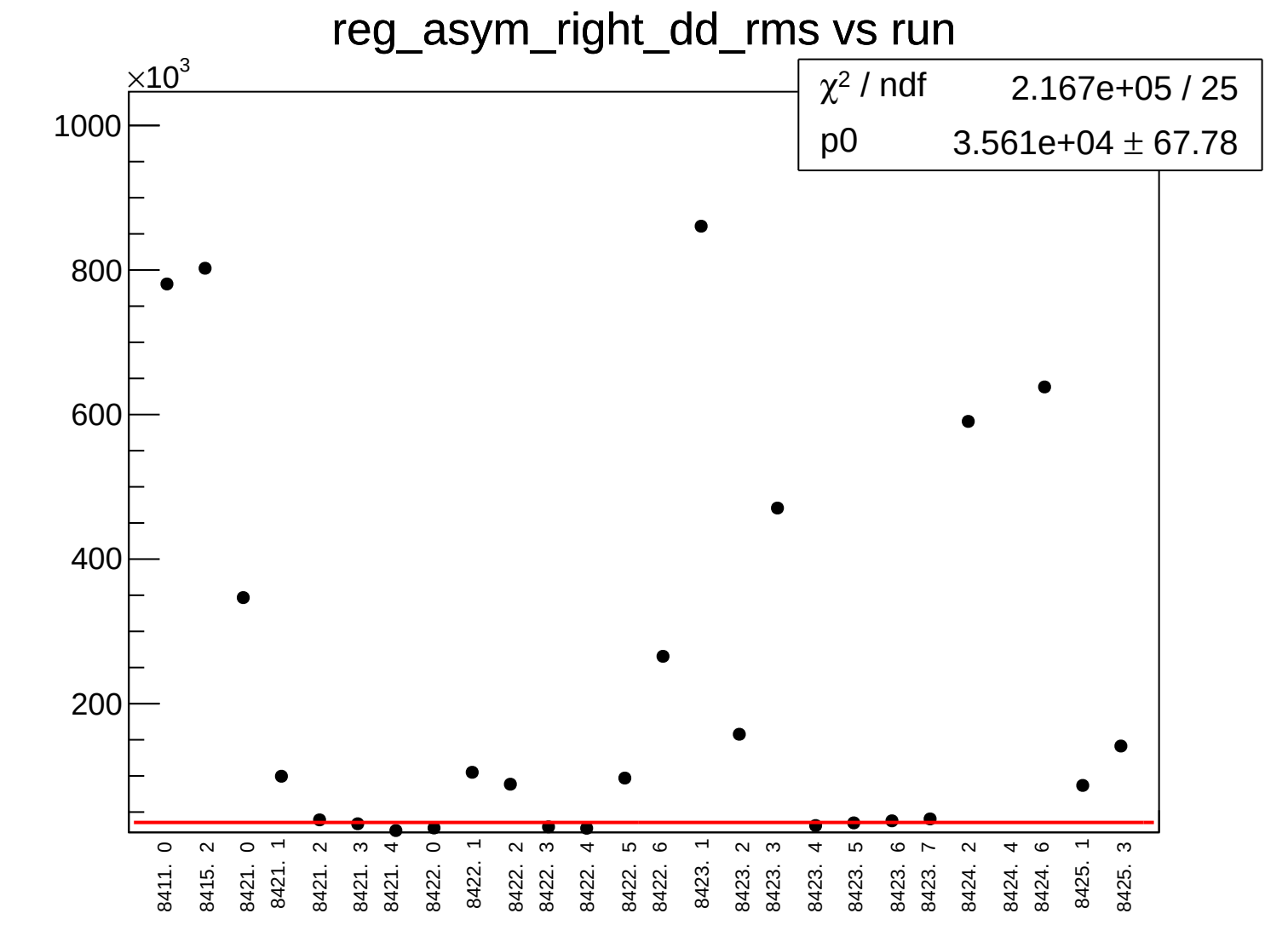

asym_right_avg_mean vs run
×10^3
χ² / ndf 8.973 / 11
p0 −1.304e+05 ± 9.777e+04
1000
500
0
−500
−1000
8421. 2
8421. 3
8421. 4
8422. 0
8422. 2
8422. 3
8422. 4
8423. 4
8423. 5
8423. 6
8423. 7
8425. 1
pull
Entries 12
Mean 14.44
Std Dev 8.011
1.5
1
0.5
0
−0.5
−1

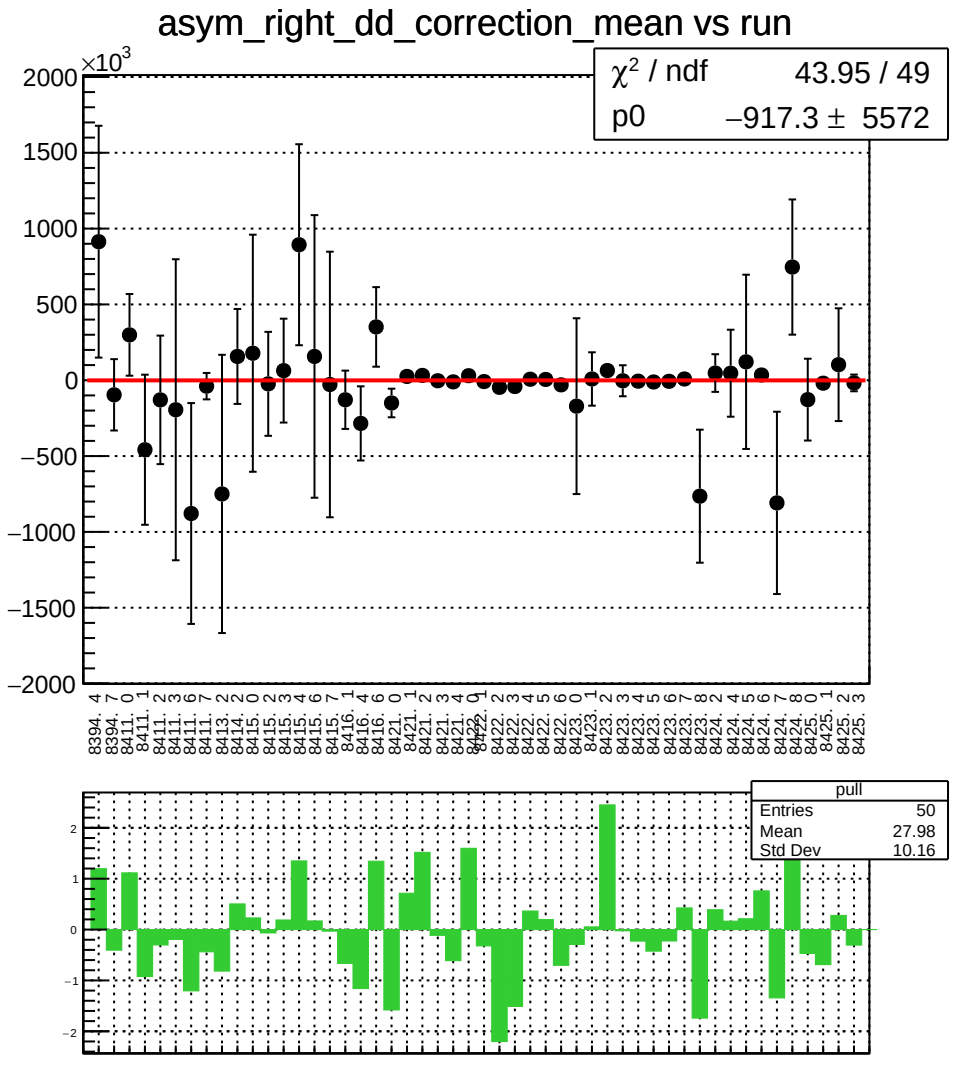

pull1D
Entries 12
Mean 0.1242
Std Dev 0.8558
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

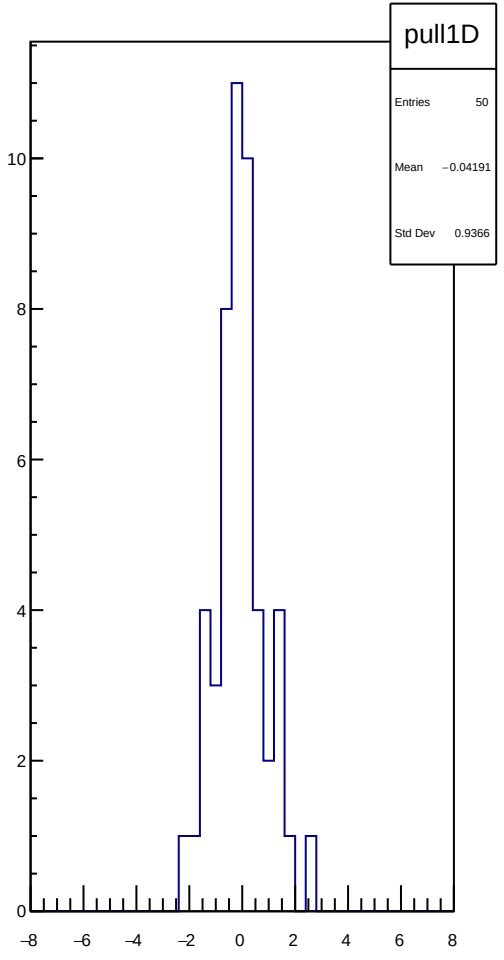

asym_right_avg_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 2.165e+05 / 25
p0 3.567e+04 ± 67.87
8411. 0
8415. 2
8421. 0
8421. 1
8421. 2
8421. 3
8421. 4
8422. 0
8422. 1
8422. 2
8422. 3
8422. 4
8422. 5
8422. 6
8423. 1
8423. 2
8423. 3
8423. 4
8423. 5
8423. 6
8423. 7
8424. 2
8424. 4
8424. 6
8425. 1
8425. 3

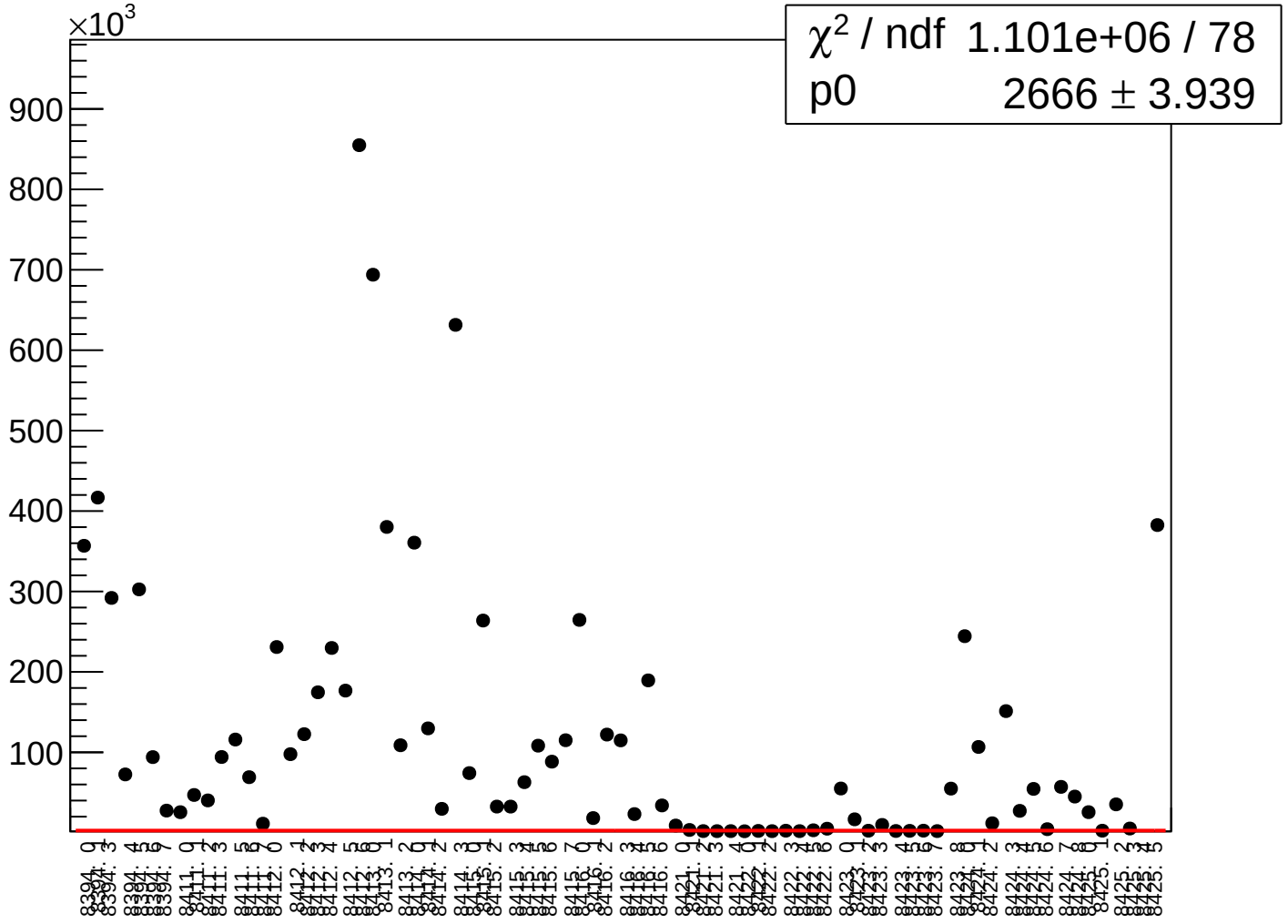

reg_asym_right_dd_mean vs run
×10^3
χ² / ndf 9.752 / 11
p0 1.353e+05 ± 9.763e+04
1000
500
0
−500
−1000
8421. 2
8421. 3
8421. 4
8422. 0
8422. 2
8422. 3
8422. 4
8423. 4
8423. 5
8423. 6
8423. 7
8425. 1
pull
Entries 12
Mean 13.97
Std Dev 7.454
1.5
1
0.5
0
−0.5
−1
−1.5

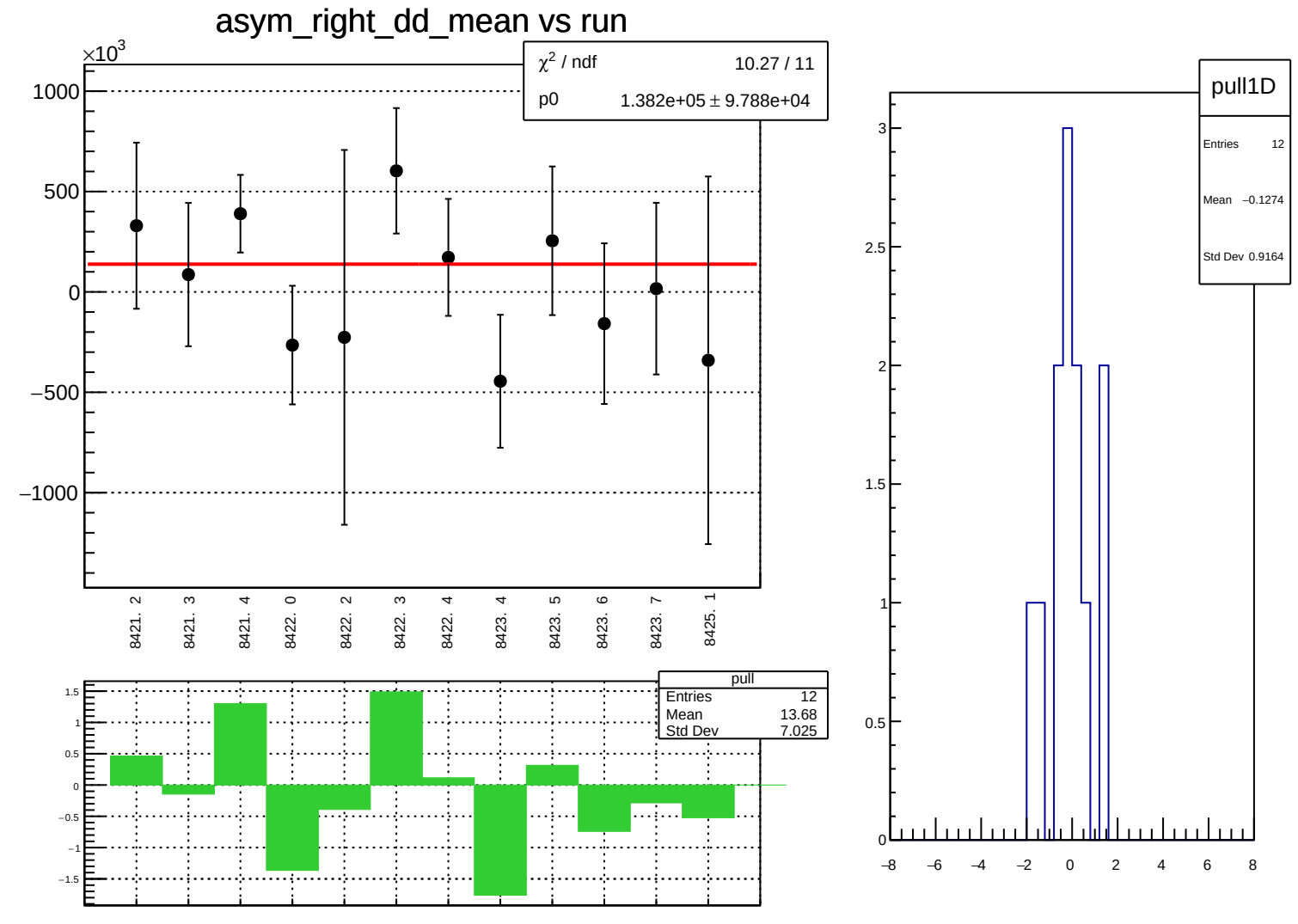

pull1D
Entries 12
Mean −0.1286
Std Dev 0.8922
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

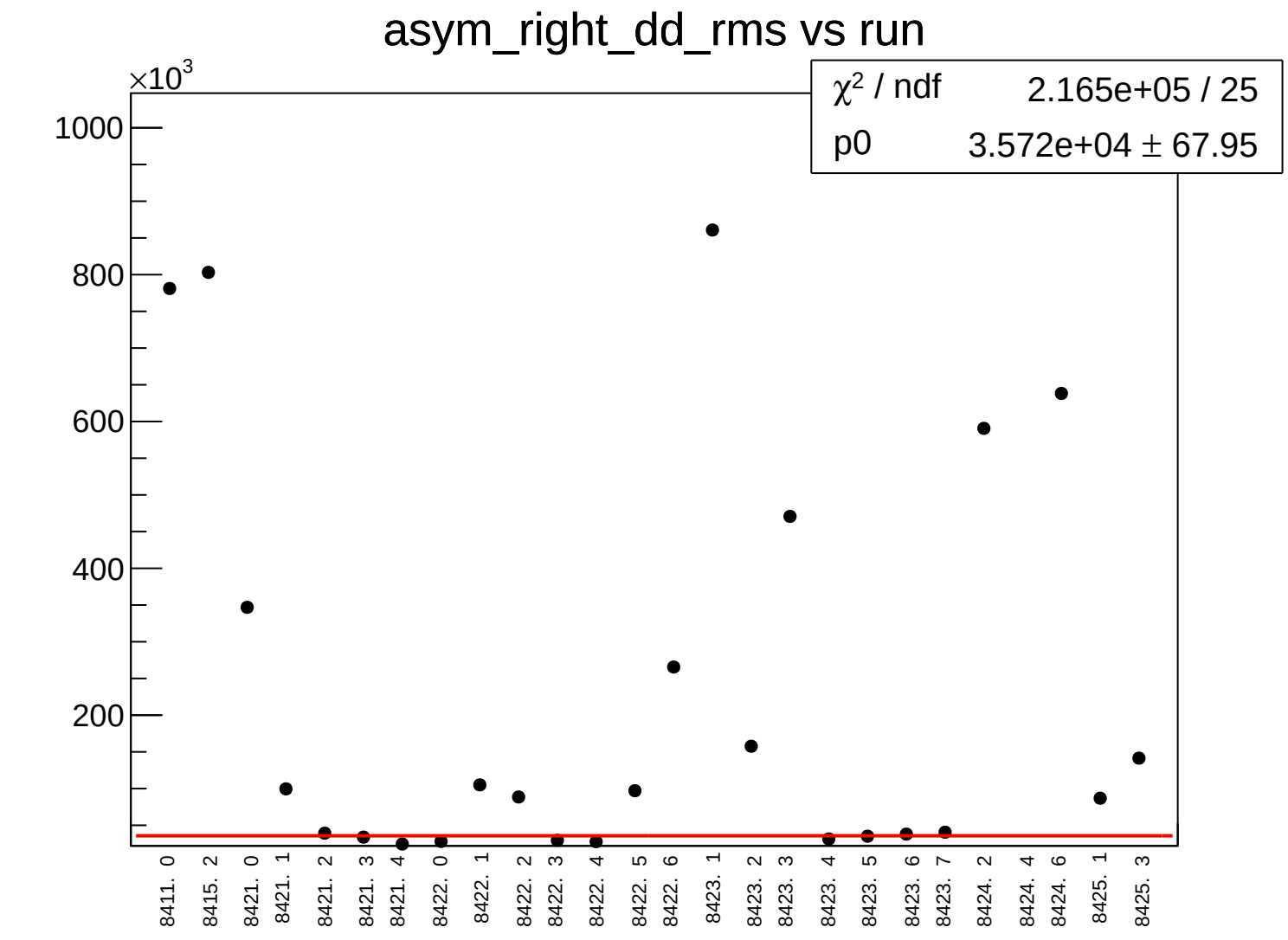

reg_asym_right_dd_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 2.167e+05 / 25
p0 3.561e+04 ± 67.78
8411. 0
8415. 2
8421. 0
8421. 1
8421. 2
8421. 3
8421. 4
8422. 0
8422. 1
8422. 2
8422. 3
8422. 4
8422. 5
8422. 6
8423. 1
8423. 2
8423. 3
8423. 4
8423. 5
8423. 6
8423. 7
8424. 2
8424. 4
8424. 6
8425. 1
8425. 3

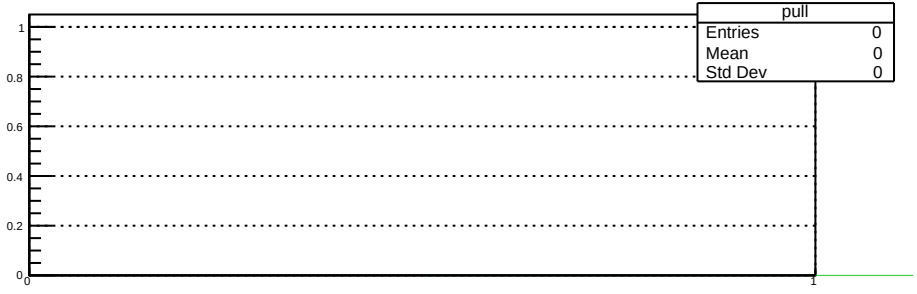

asym_right_dd_correction_mean vs run
χ² / ndf 43.95 / 49
p0 −917.3 ± 5572
×10³
pull
Entries 50
Mean 27.98
Std Dev 10.16

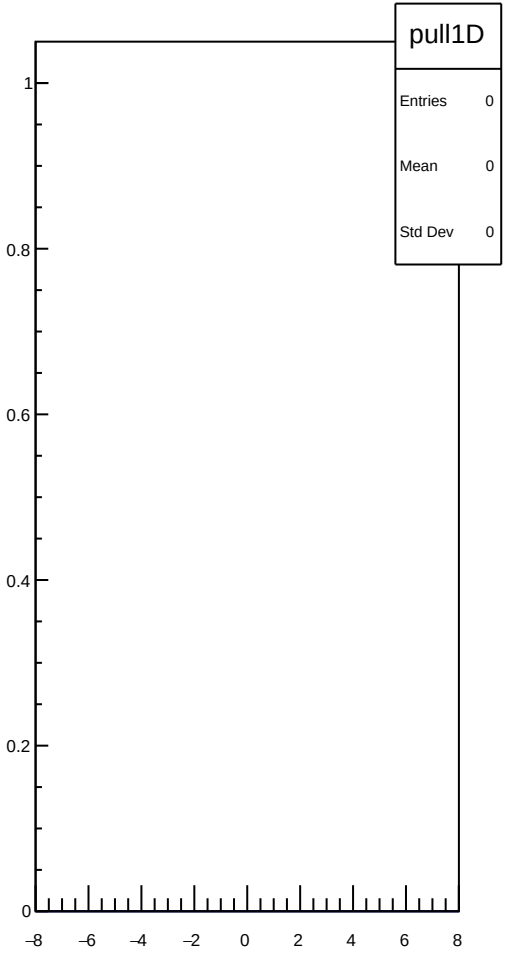

pull1D
Entries 50
Mean −0.04191
Std Dev 0.9366

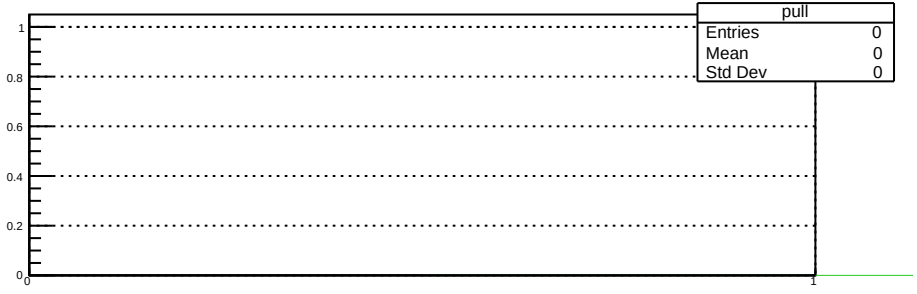

asym_right_dd_correction_rms vs run
×10^3
χ² / ndf 1.101e+06 / 78
p0 2666 ± 3.939
900
800
700
600
500
400
300
200
100

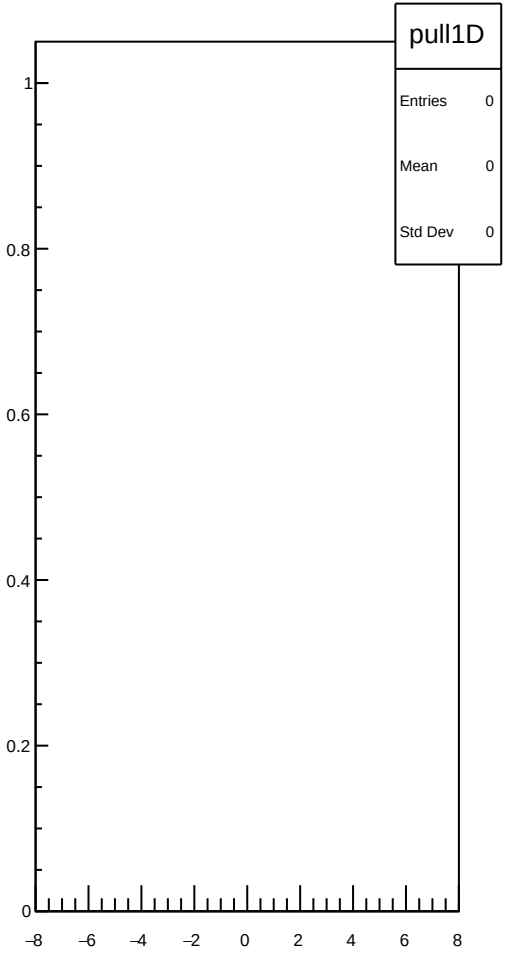

asym_right_dd_mean vs run
×10^3
χ² / ndf 10.27 / 11
p0 1.382e+05 ± 9.788e+04
1000
500
0
−500
−1000
8421. 2
8421. 3
8421. 4
8422. 0
8422. 2
8422. 3
8422. 4
8423. 4
8423. 5
8423. 6
8423. 7
8425. 1
pull
Entries 12
Mean 13.68
Std Dev 7.025
pull1D
Entries 12
Mean −0.1274
Std Dev 0.9164

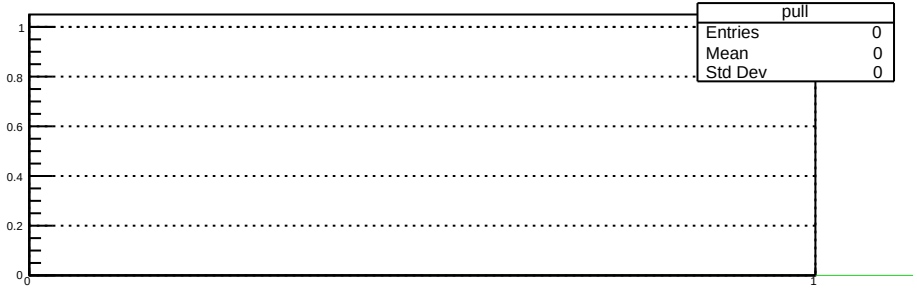

asym_right_dd_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 2.165e+05 / 25
p0 3.572e+04 ± 67.95
8411. 0
8415. 2
8421. 0
8421. 1
8421. 2
8421. 3
8421. 4
8422. 0
8422. 1
8422. 2
8422. 3
8422. 4
8422. 5
8422. 6
8423. 1
8423. 2
8423. 3
8423. 4
8423. 5
8423. 6
8423. 7
8424. 2
8424. 4
8424. 6
8425. 1
8425. 3

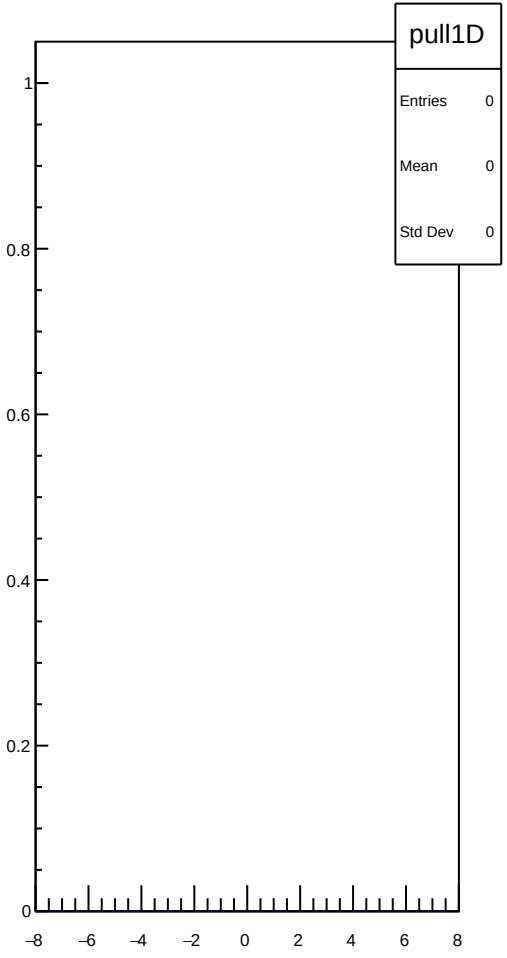

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

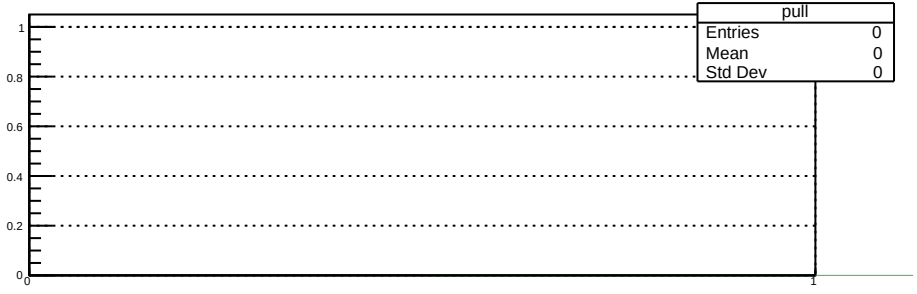

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

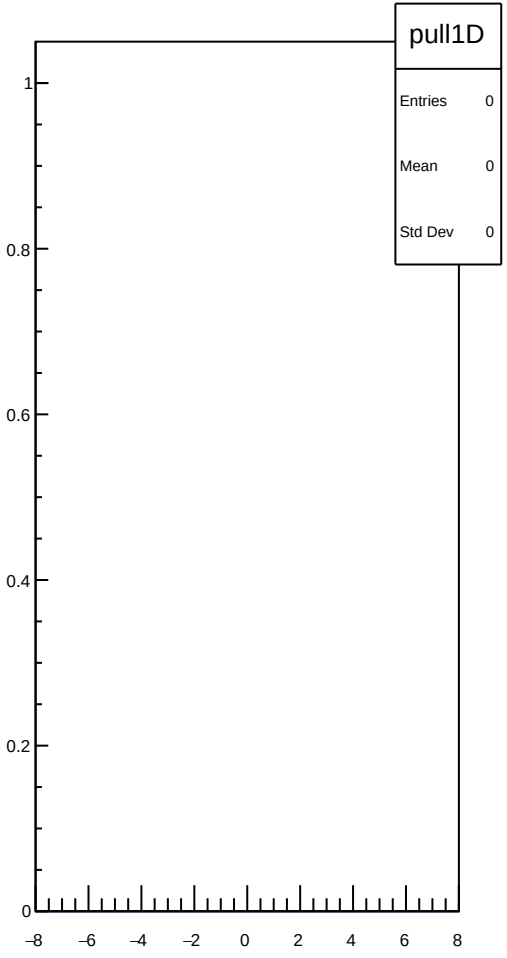

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

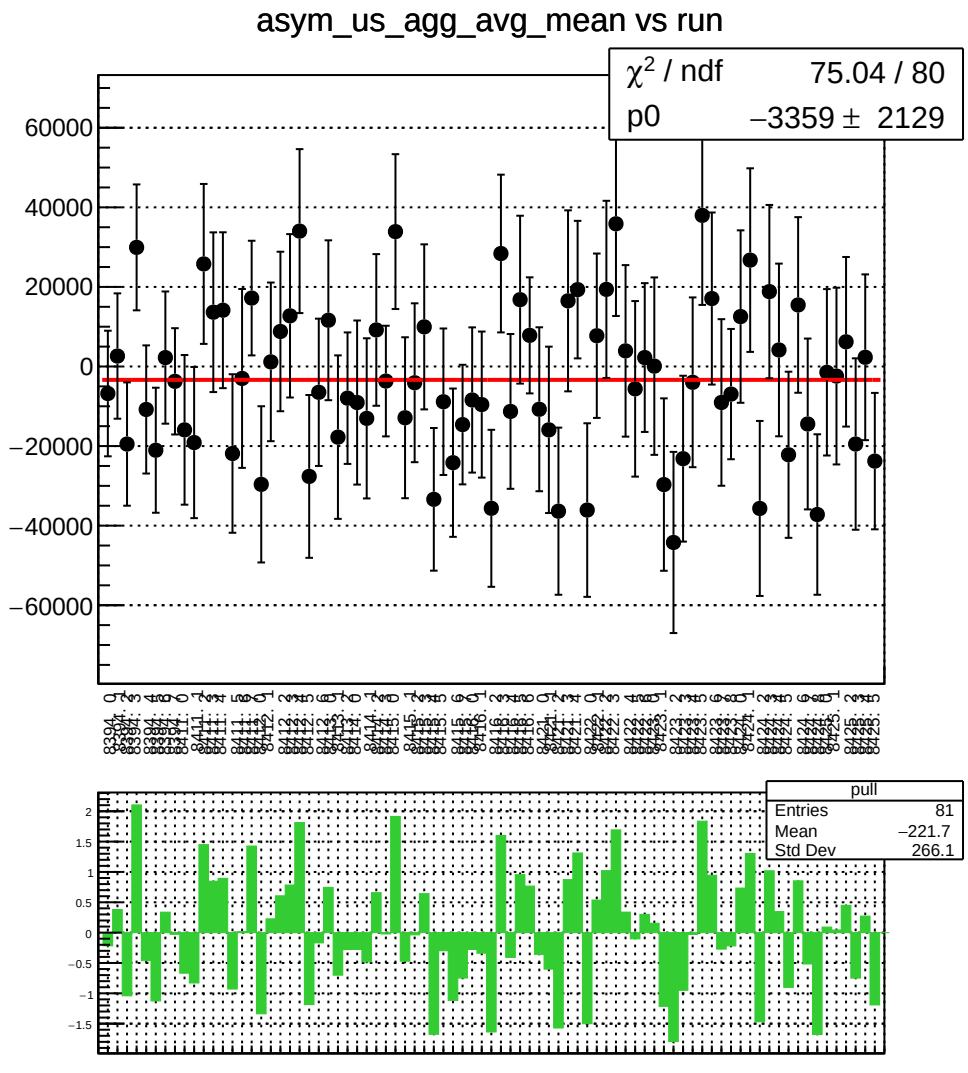

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

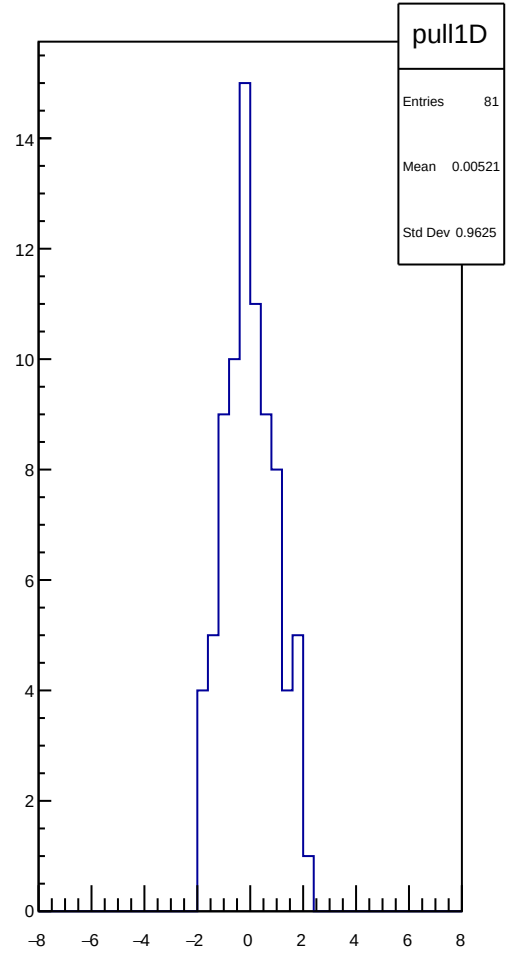

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

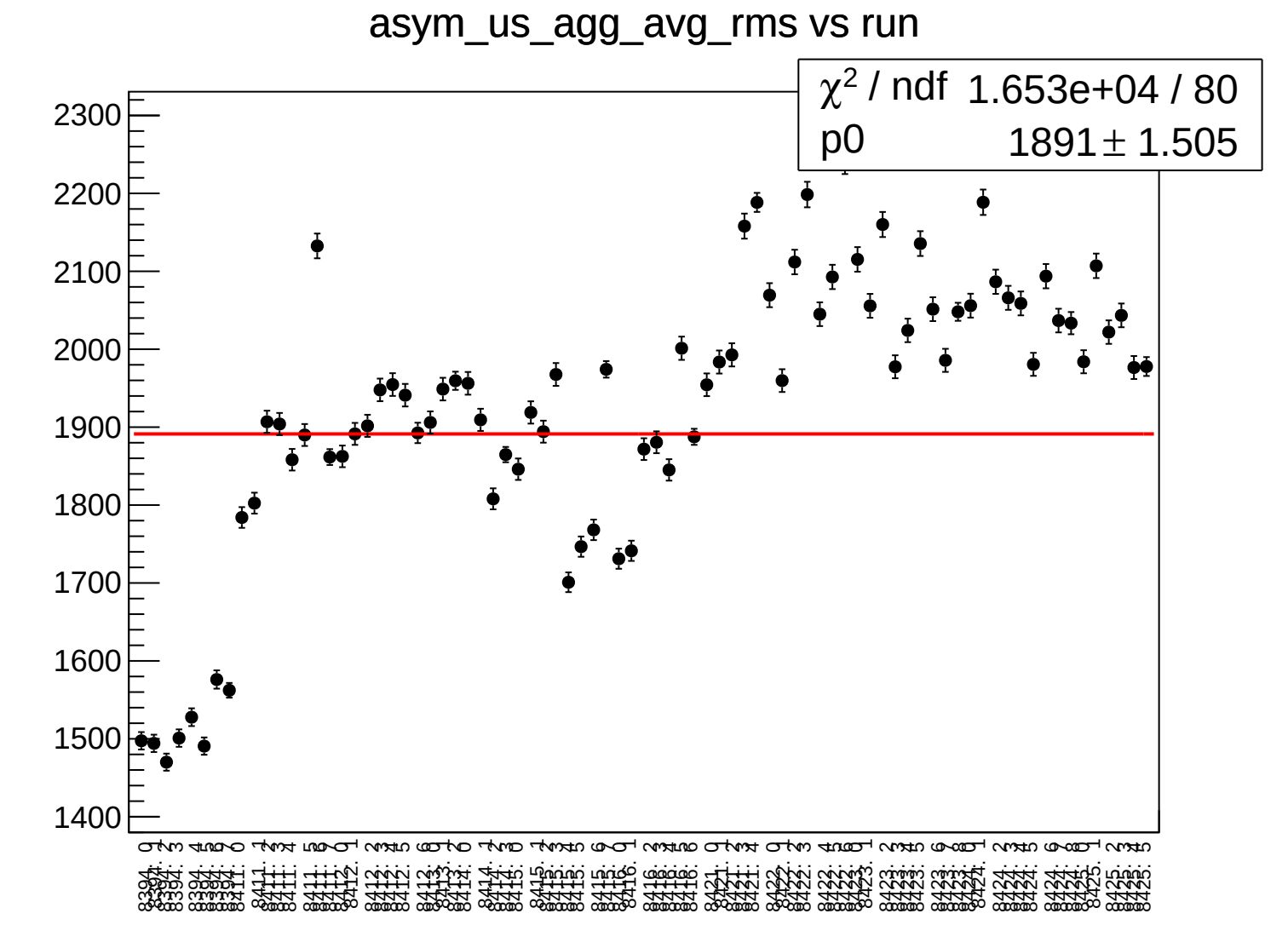

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

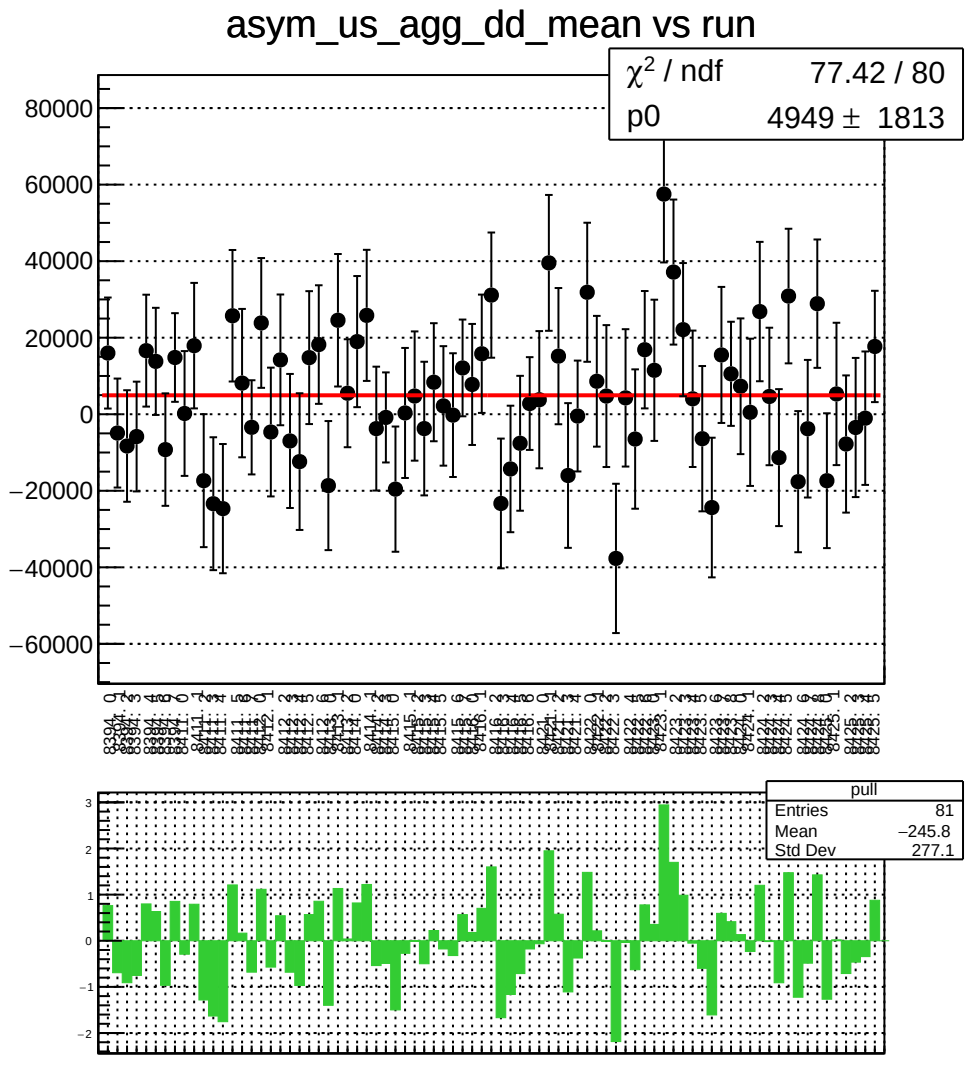

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

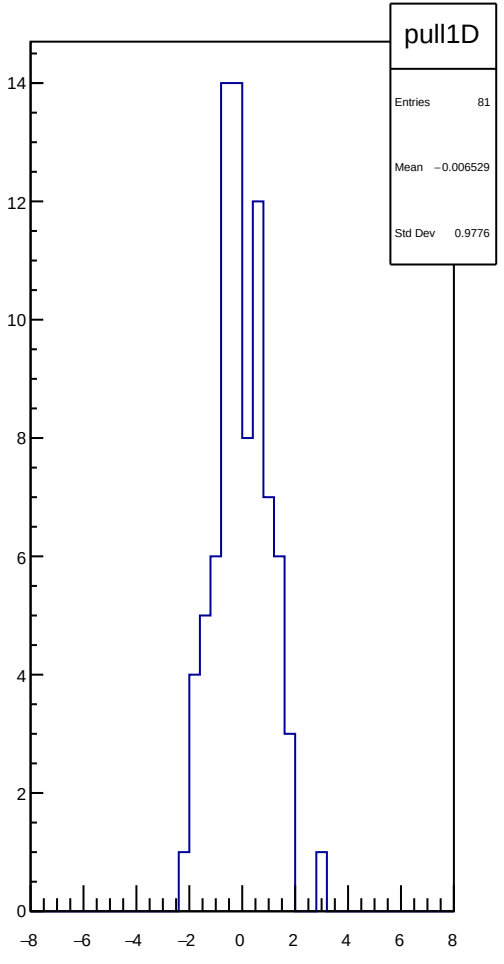

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

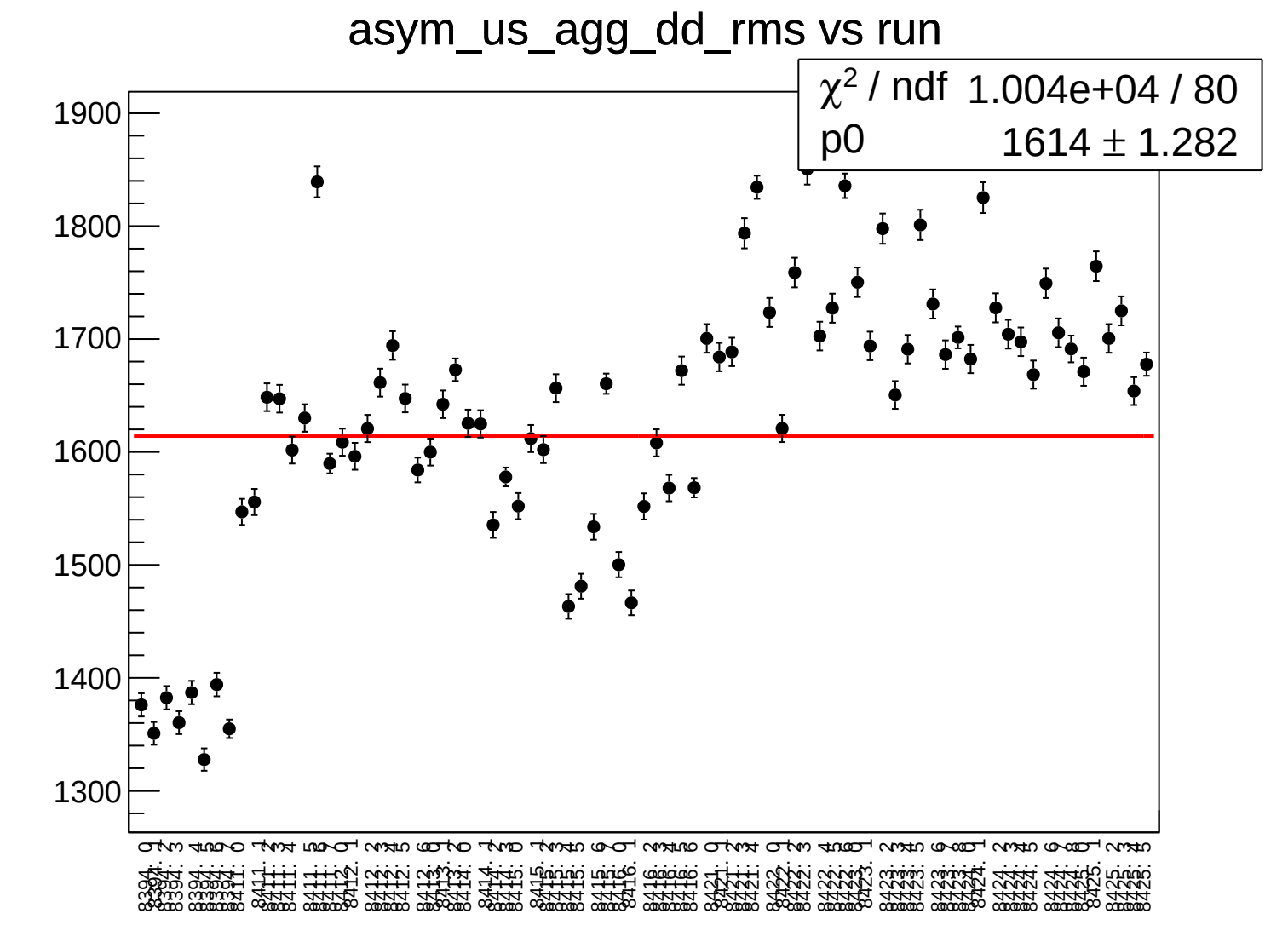

asym_us_agg_avg_mean vs run
χ² / ndf 75.04 / 80
p0 −3359 ± 2129
pull
Entries 81
Mean −221.7
Std Dev 266.1

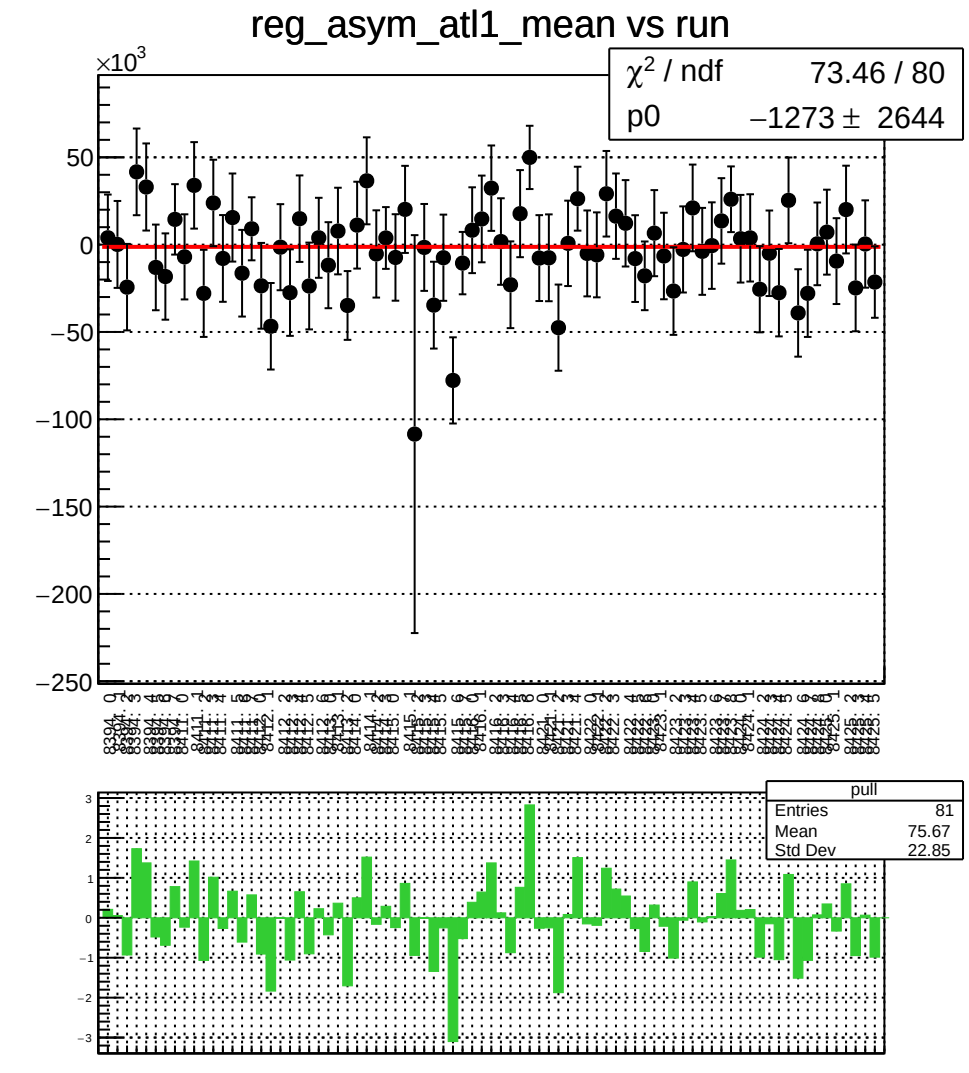

pull1D
Entries 81
Mean 0.00521
Std Dev 0.9625

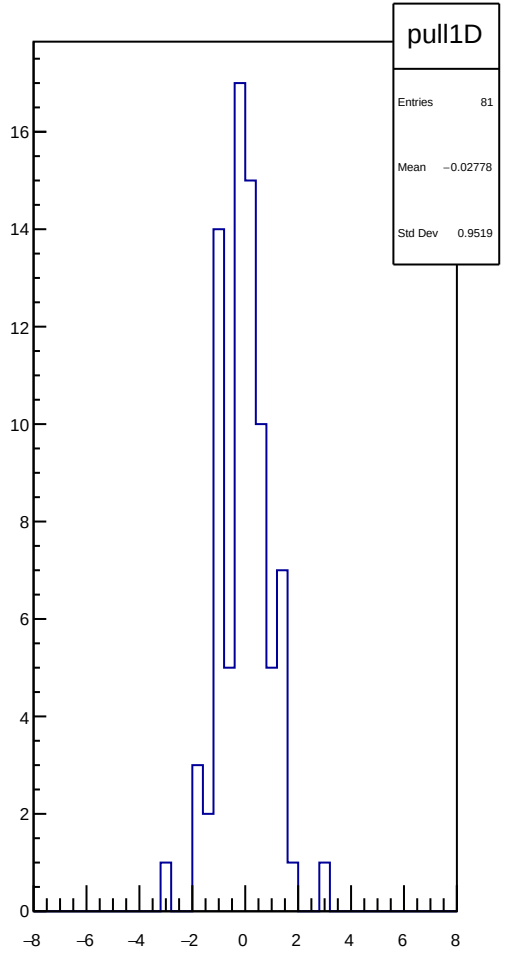

asym_us_agg_avg_rms vs run
χ² / ndf 1.653e+04 / 80
p0 1891 ± 1.505
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

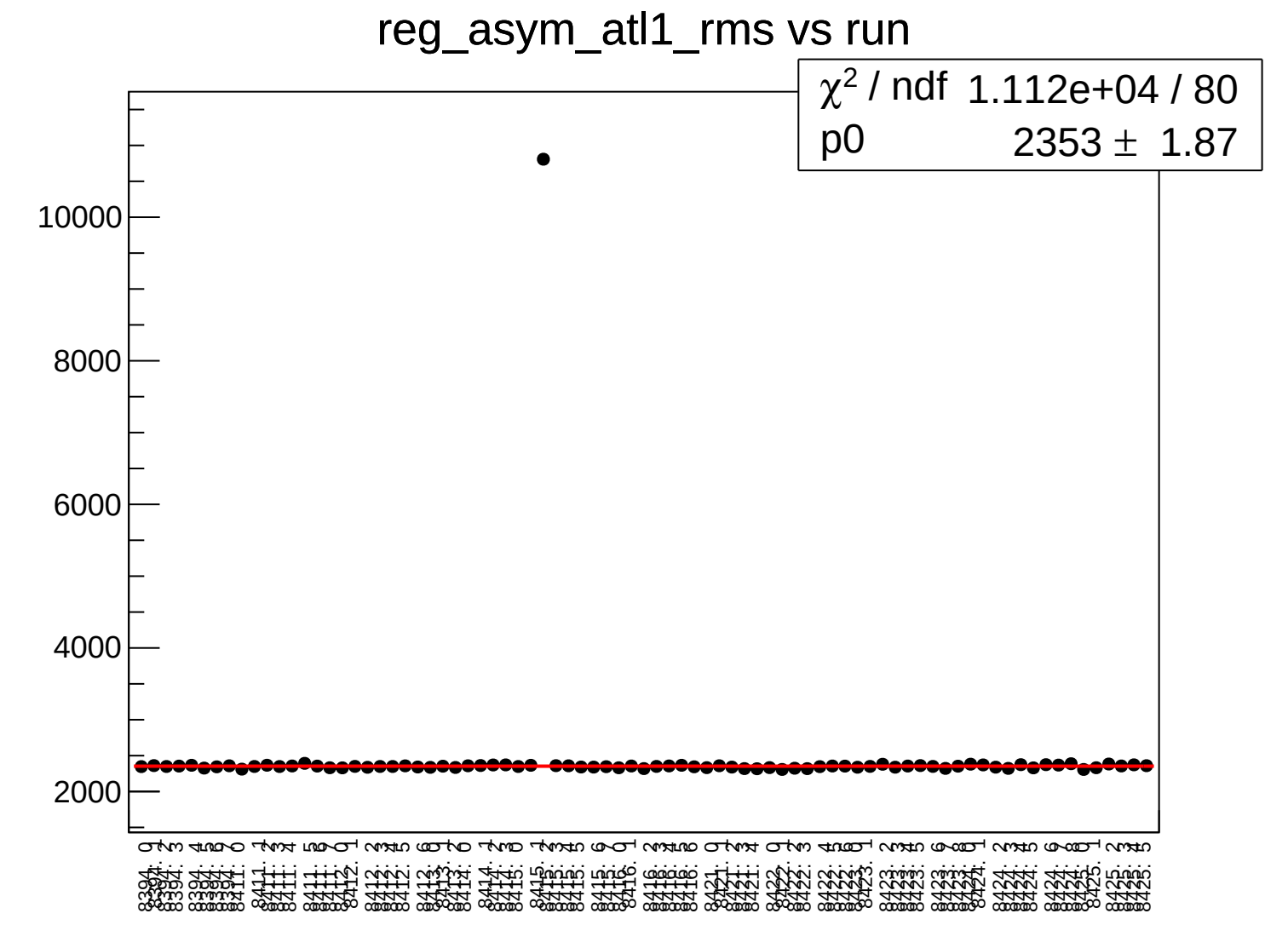

asym_us_agg_dd_mean vs run
χ² / ndf 77.42 / 80
p0 4949 ± 1813
pull
Entries 81
Mean −245.8
Std Dev 277.1

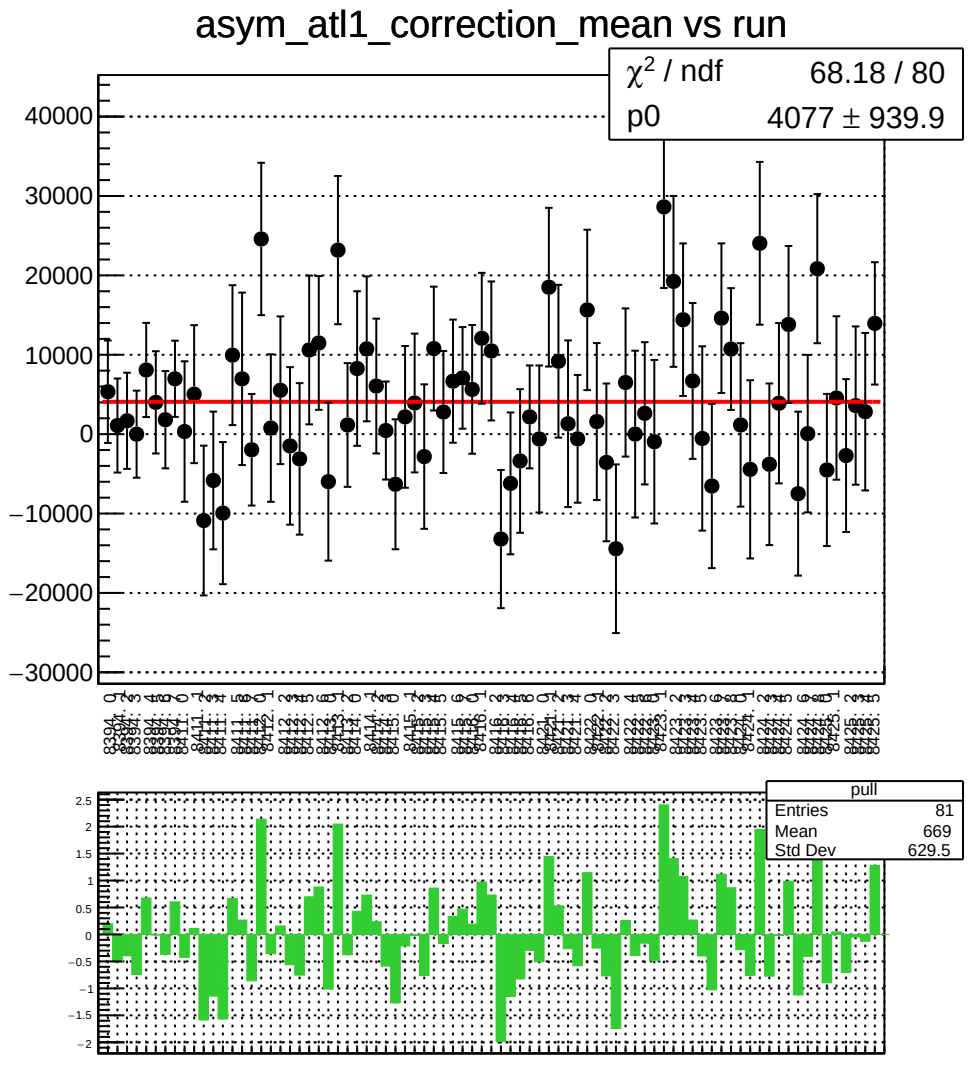

pull1D
Entries 81
Mean −0.006529
Std Dev 0.9776

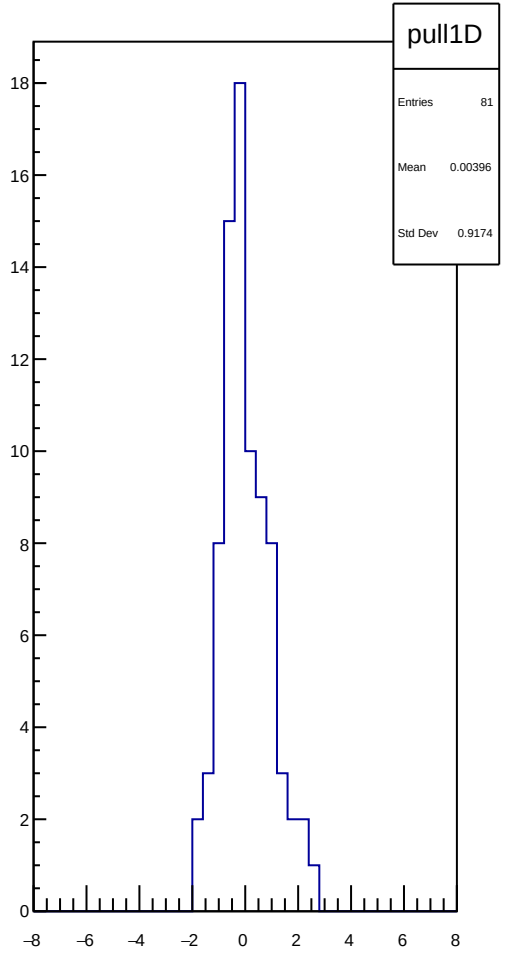

asym_us_agg_dd_rms vs run
χ² / ndf 1.004e+04 / 80
p0 1614 ± 1.282
1900
1800
1700
1600
1500
1400
1300

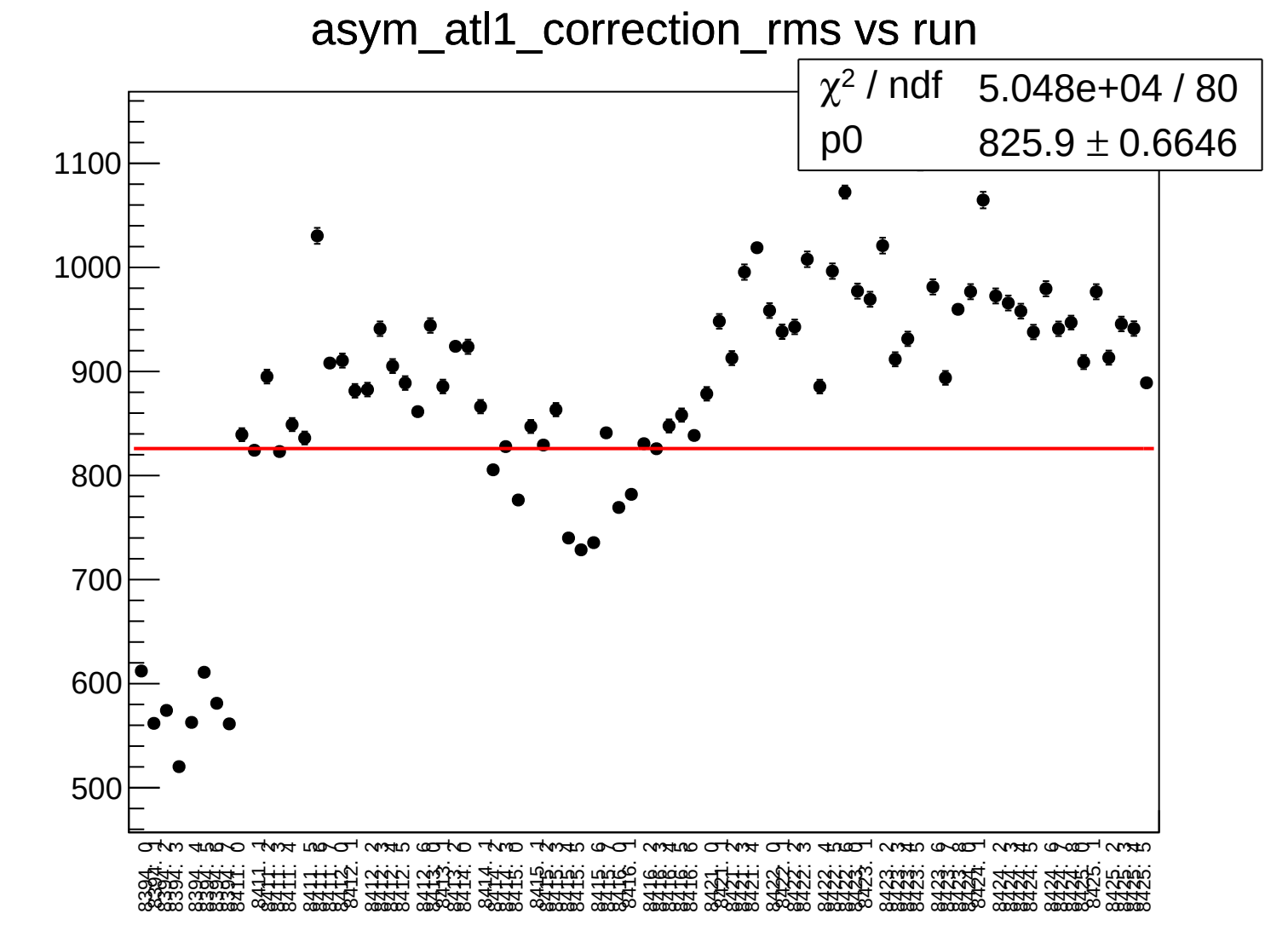

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 73.46 / 80
p0 −1273 ± 2644
50
0
−50
−100
−150
−200
−250
pull
Entries 81
Mean 75.67
Std Dev 22.85
3
2
1
0
−1
−2
−3

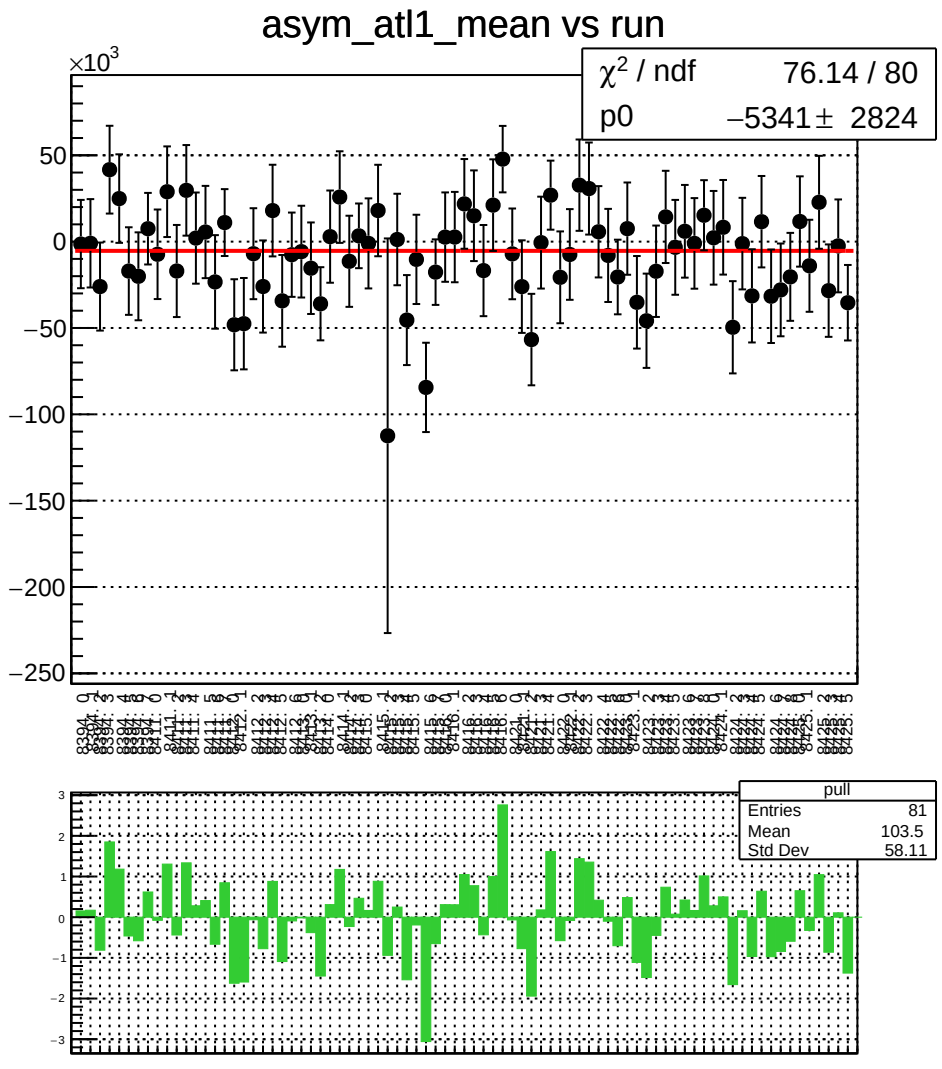

pull1D
Entries 81
Mean −0.02778
Std Dev 0.9519
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

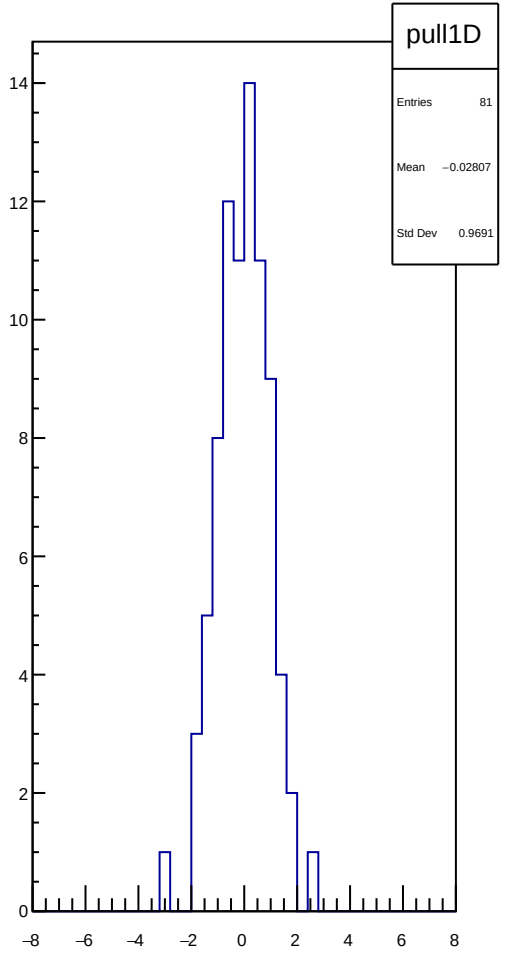

reg_asym_atl1_rms vs run
χ² / ndf 1.112e+04 / 80
p0 2353 ± 1.87
10000
8000
6000
4000
2000

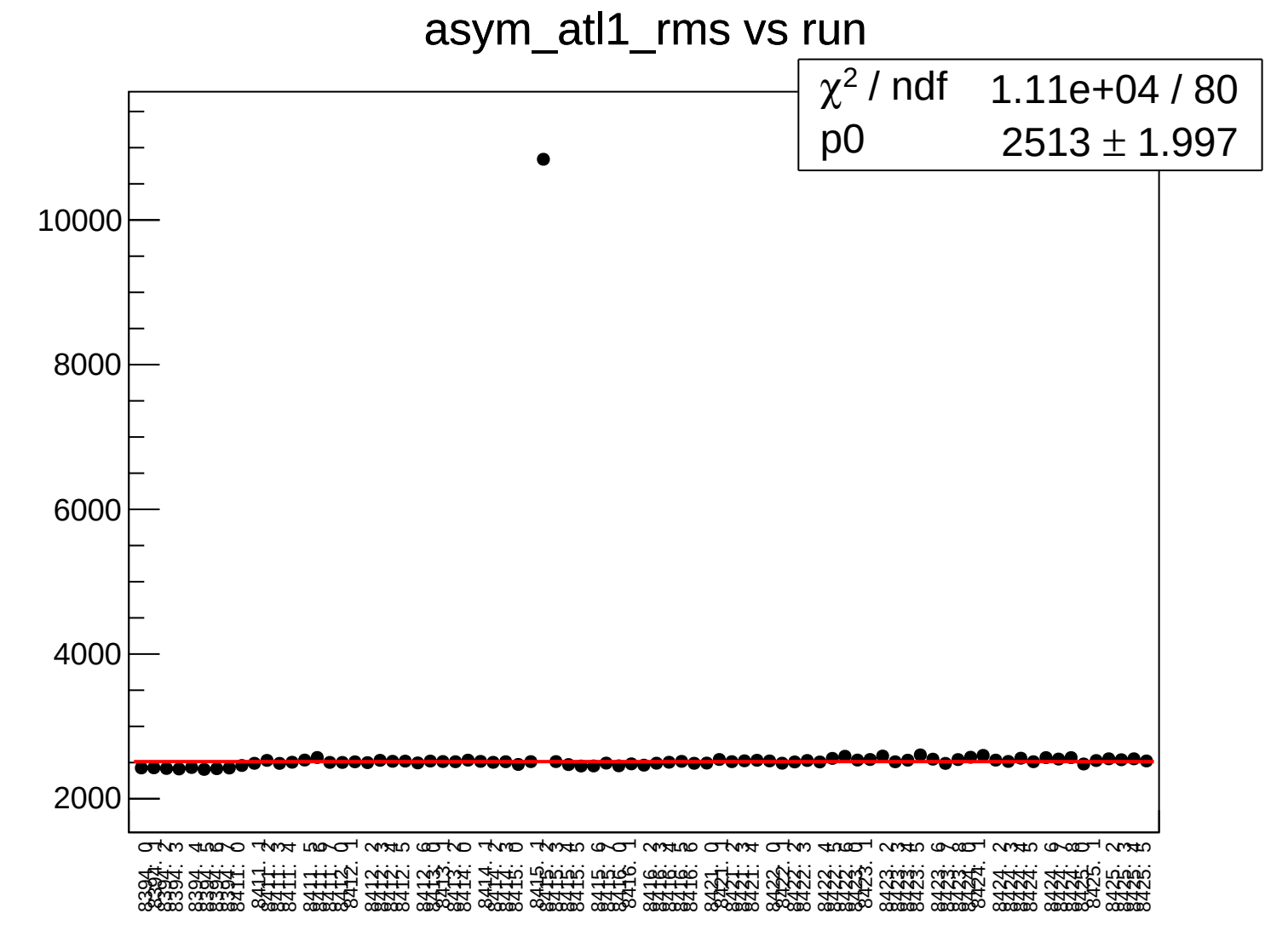

asym_atl1_correction_mean vs run
χ² / ndf 68.18 / 80
p0 4077 ± 939.9
pull
Entries 81
Mean 669
Std Dev 629.5

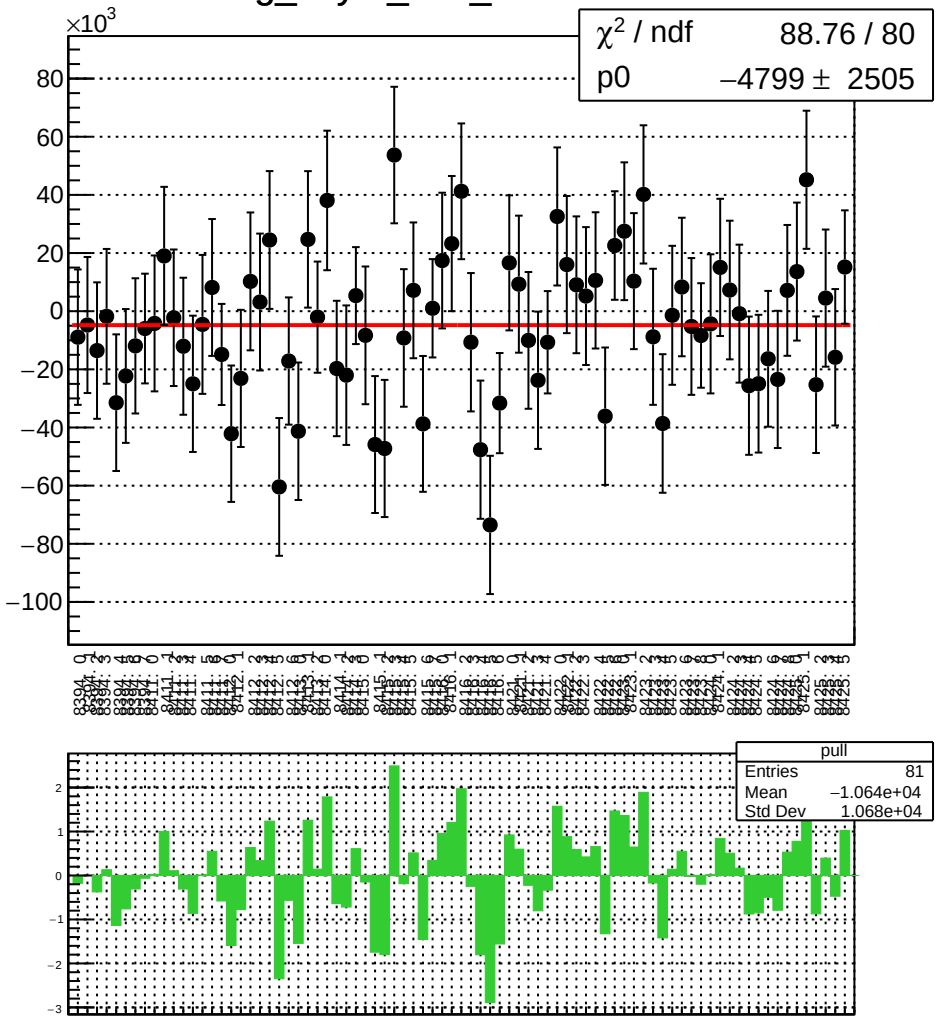

pull1D
Entries 81
Mean 0.00396
Std Dev 0.9174

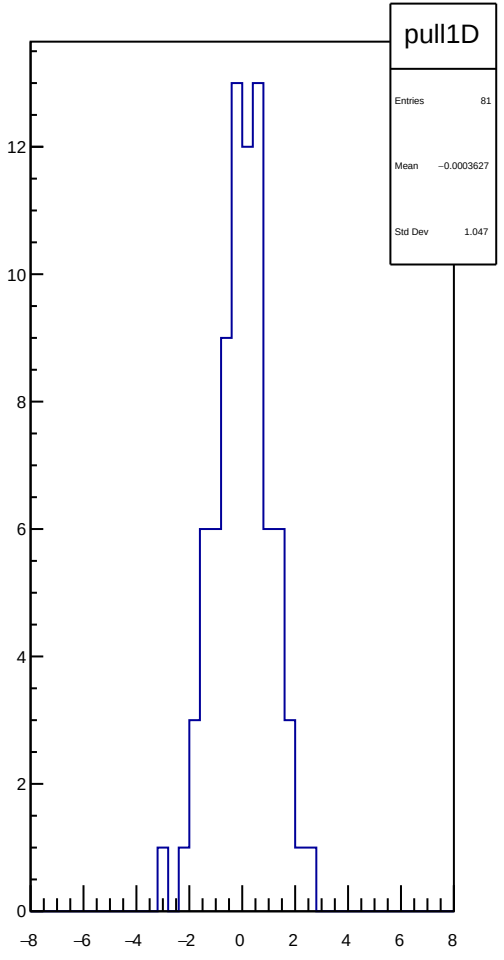

asym_atl1_correction_rms vs run
χ² / ndf 5.048e+04 / 80
p0 825.9 ± 0.6646
1100
1000
900
800
700
600
500

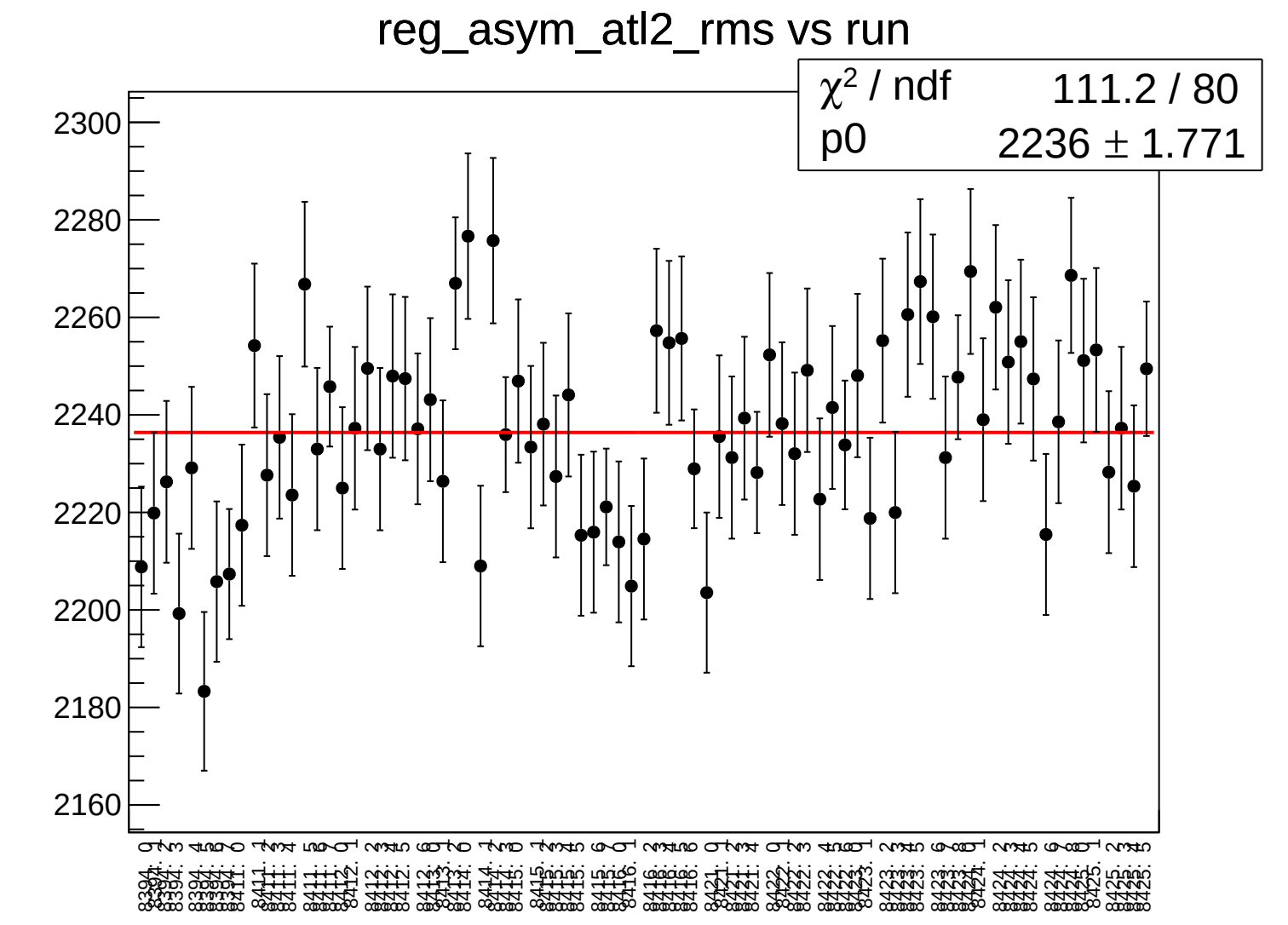

asym_atl1_mean vs run
×10^3
χ^2 / ndf 76.14 / 80
p0 −5341 ± 2824
50
0
−50
−100
−150
−200
−250
pull
Entries 81
Mean 103.5
Std Dev 58.11
3
2
1
0
−1
−2
−3

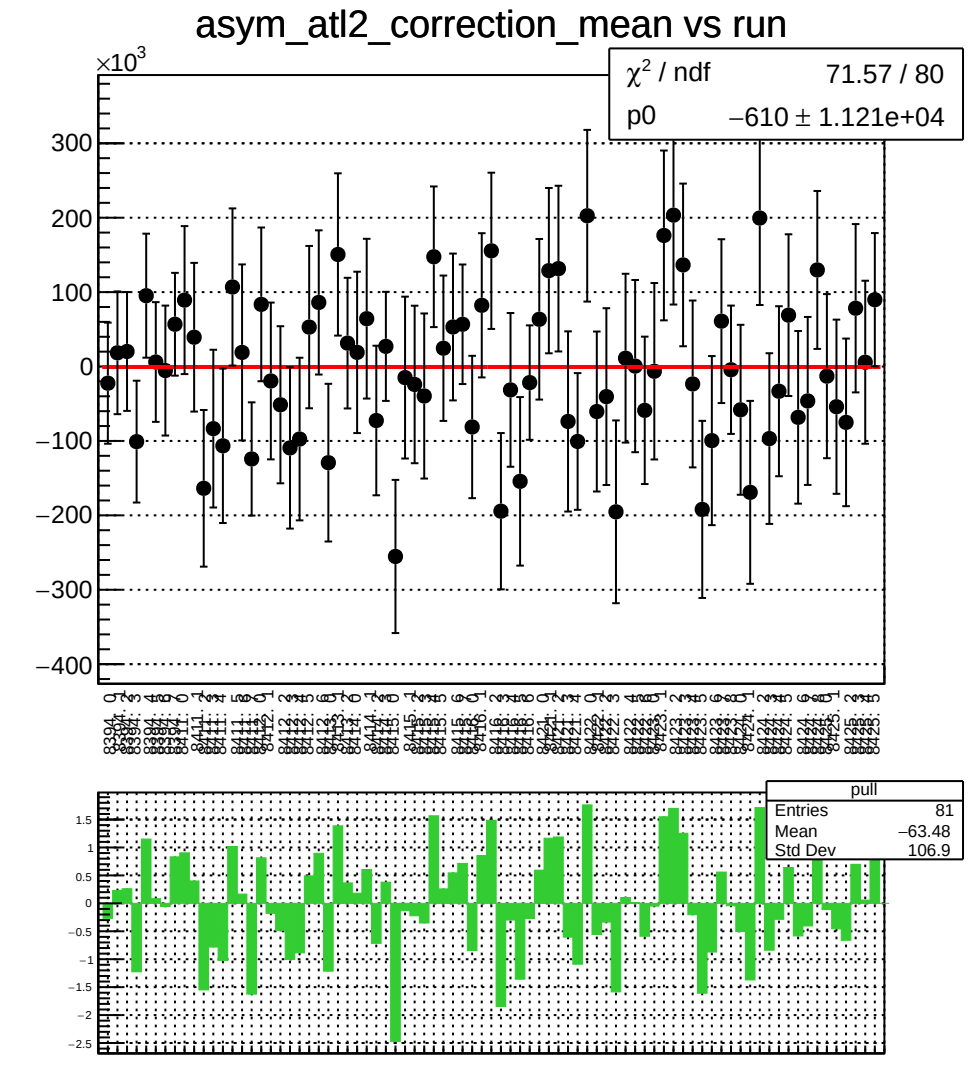

pull1D
Entries 81
Mean −0.02807
Std Dev 0.9691
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

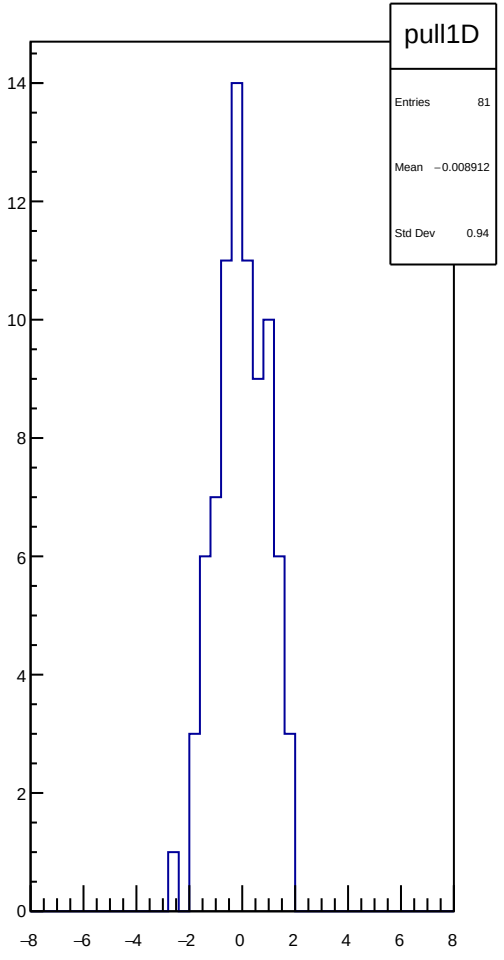

asym_atl1_rms vs run
χ² / ndf 1.11e+04 / 80
p0 2513 ± 1.997
10000
8000
6000
4000
2000

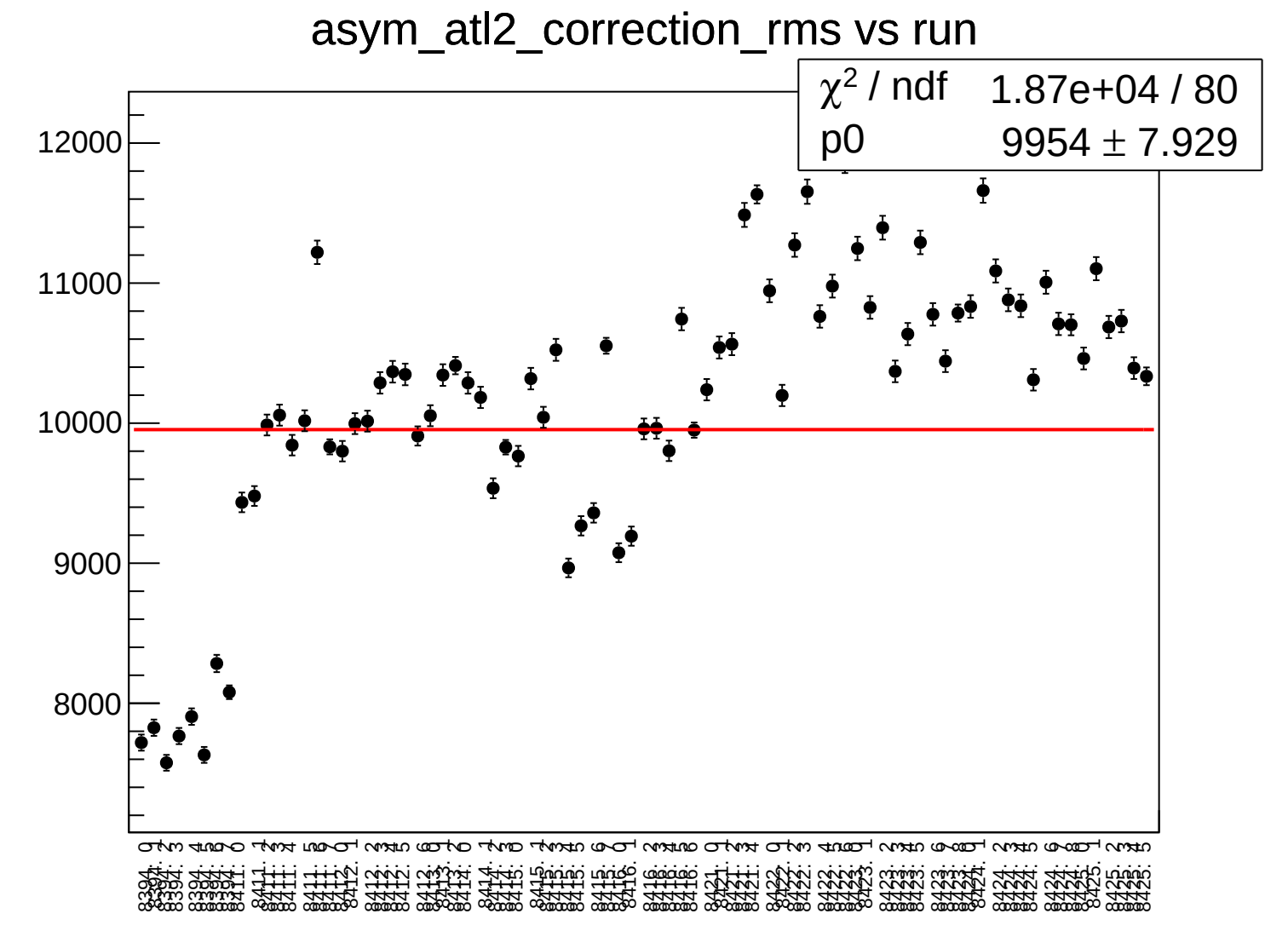

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 88.76 / 80
p0 −4799 ± 2505
pull
Entries 81
Mean −1.064e+04
Std Dev 1.068e+04

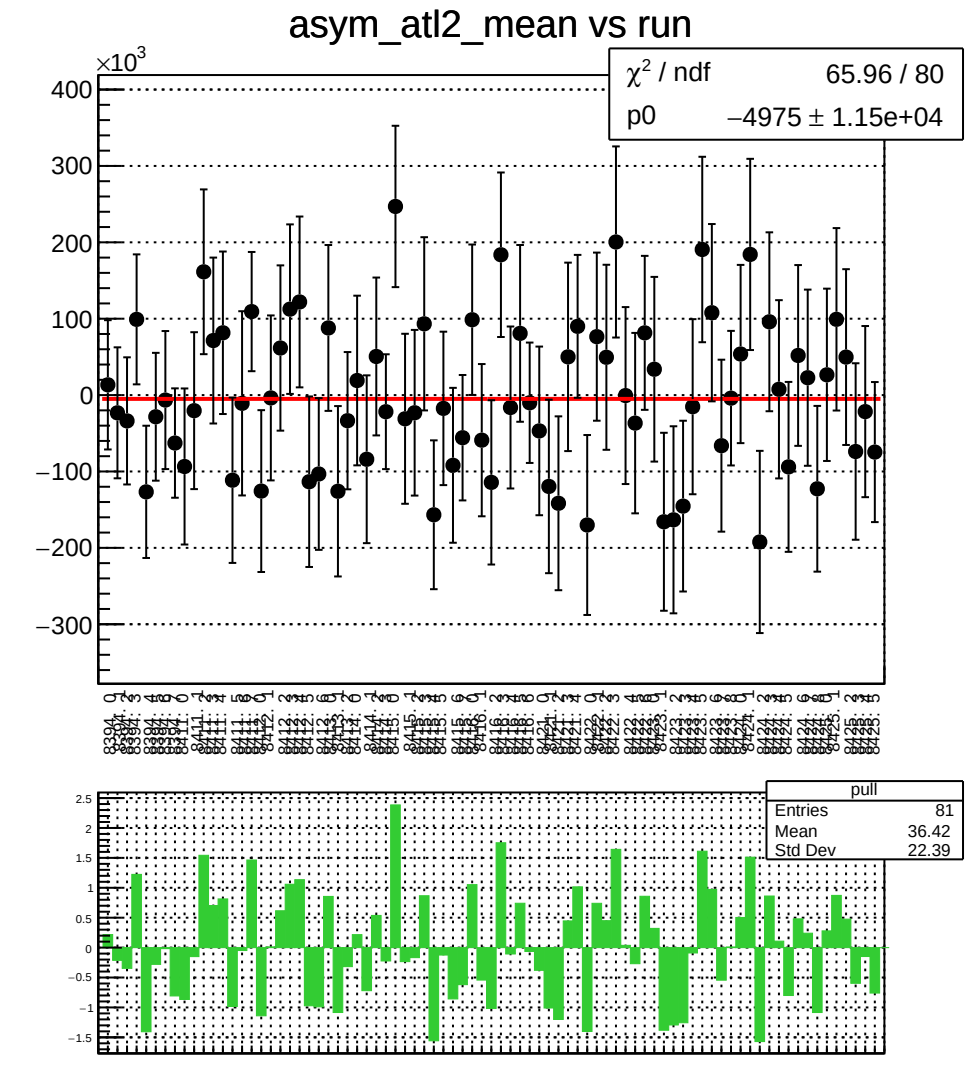

pull1D
Entries 81
Mean −0.0003627
Std Dev 1.047

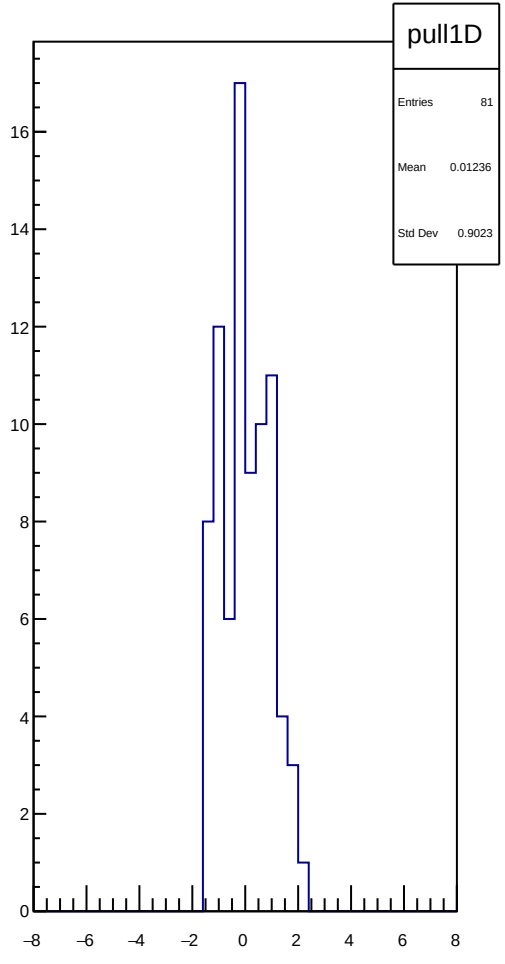

reg_asym_atl2_rms vs run
χ^2 / ndf 111.2 / 80
p0 2236 ± 1.771
2300
2280
2260
2240
2220
2200
2180
2160

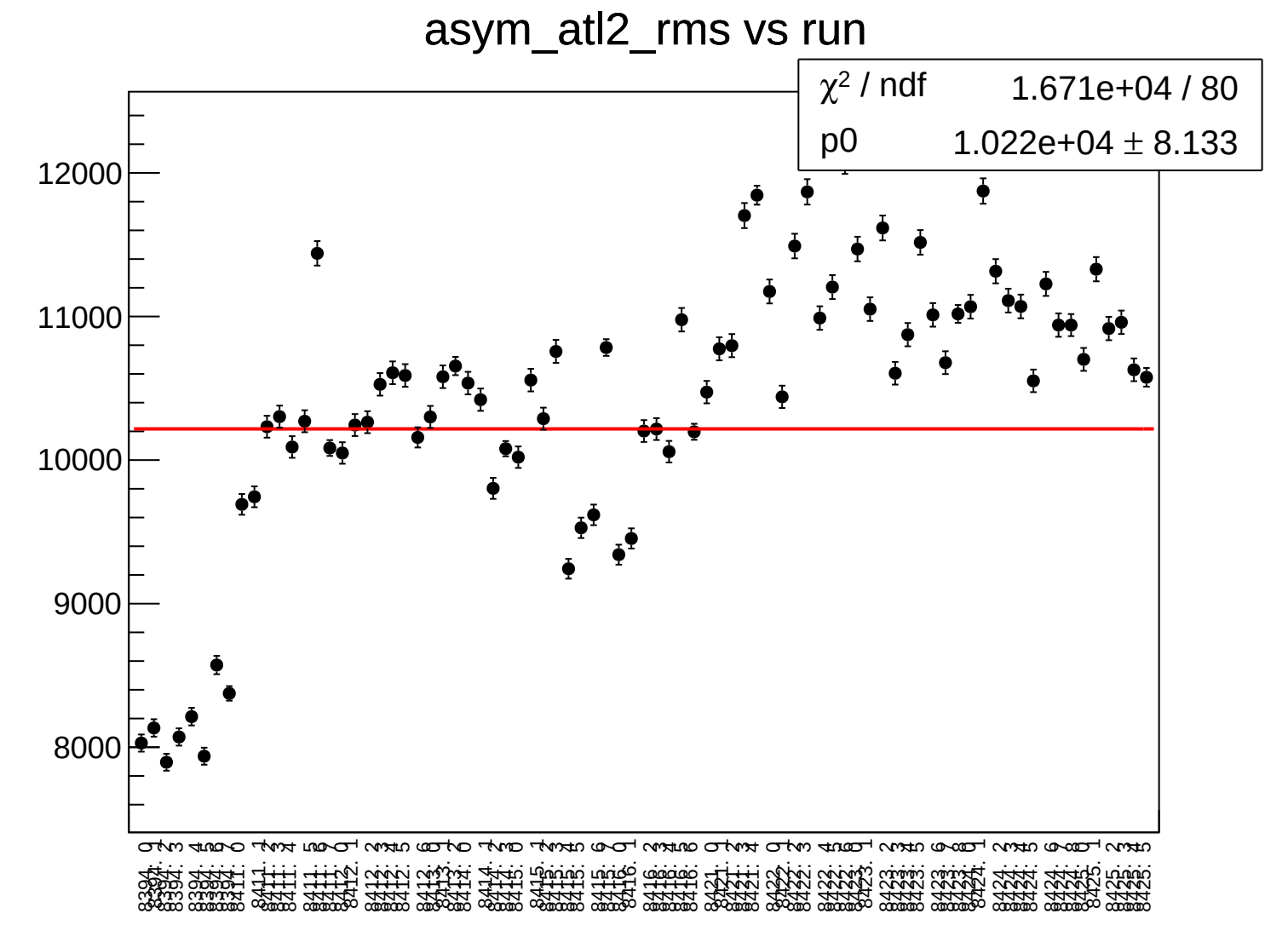

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 71.57 / 80
p0 −610 ± 1.121e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 81
Mean −63.48
Std Dev 106.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

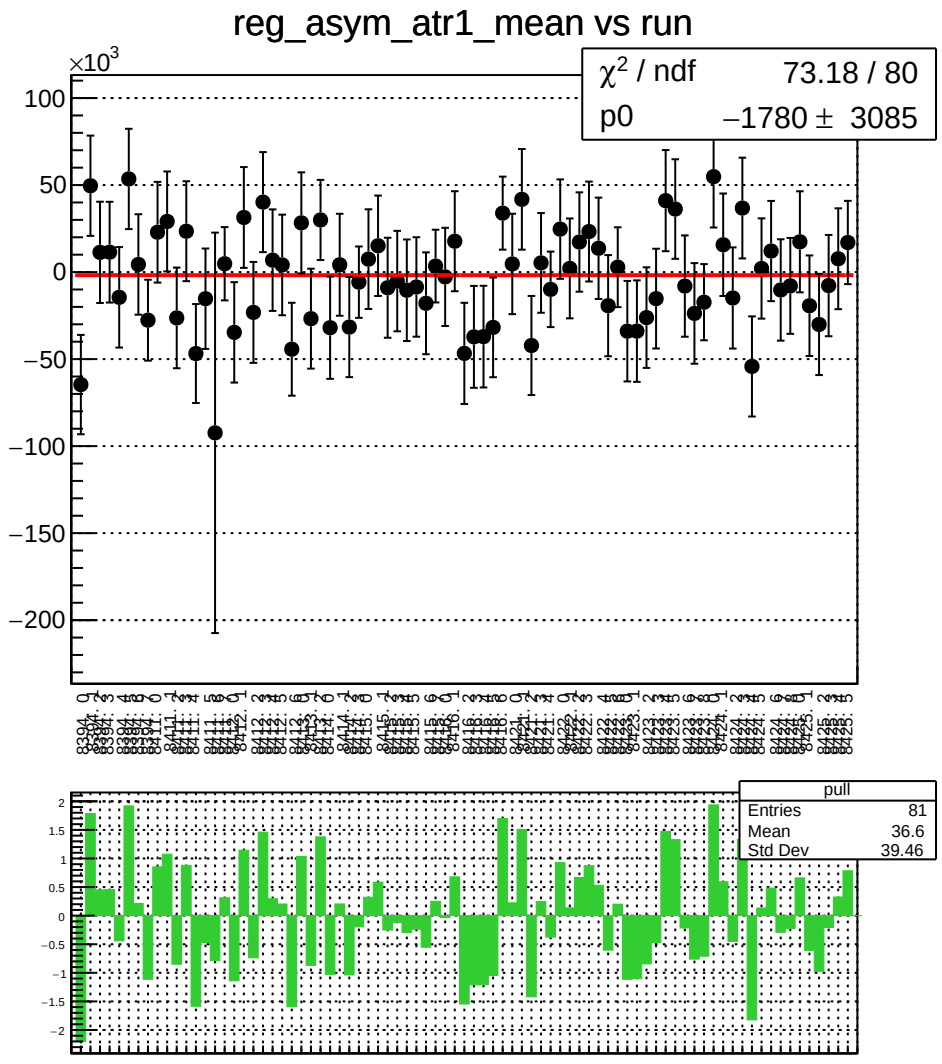

pull1D
Entries 81
Mean −0.008912
Std Dev 0.94
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

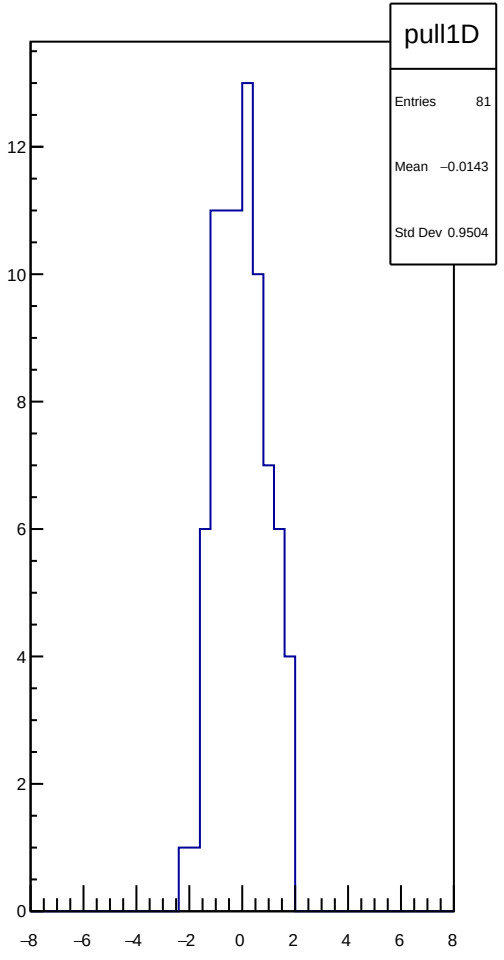

asym_atl2_correction_rms vs run
χ² / ndf 1.87e+04 / 80
p0 9954 ± 7.929
12000
11000
10000
9000
8000

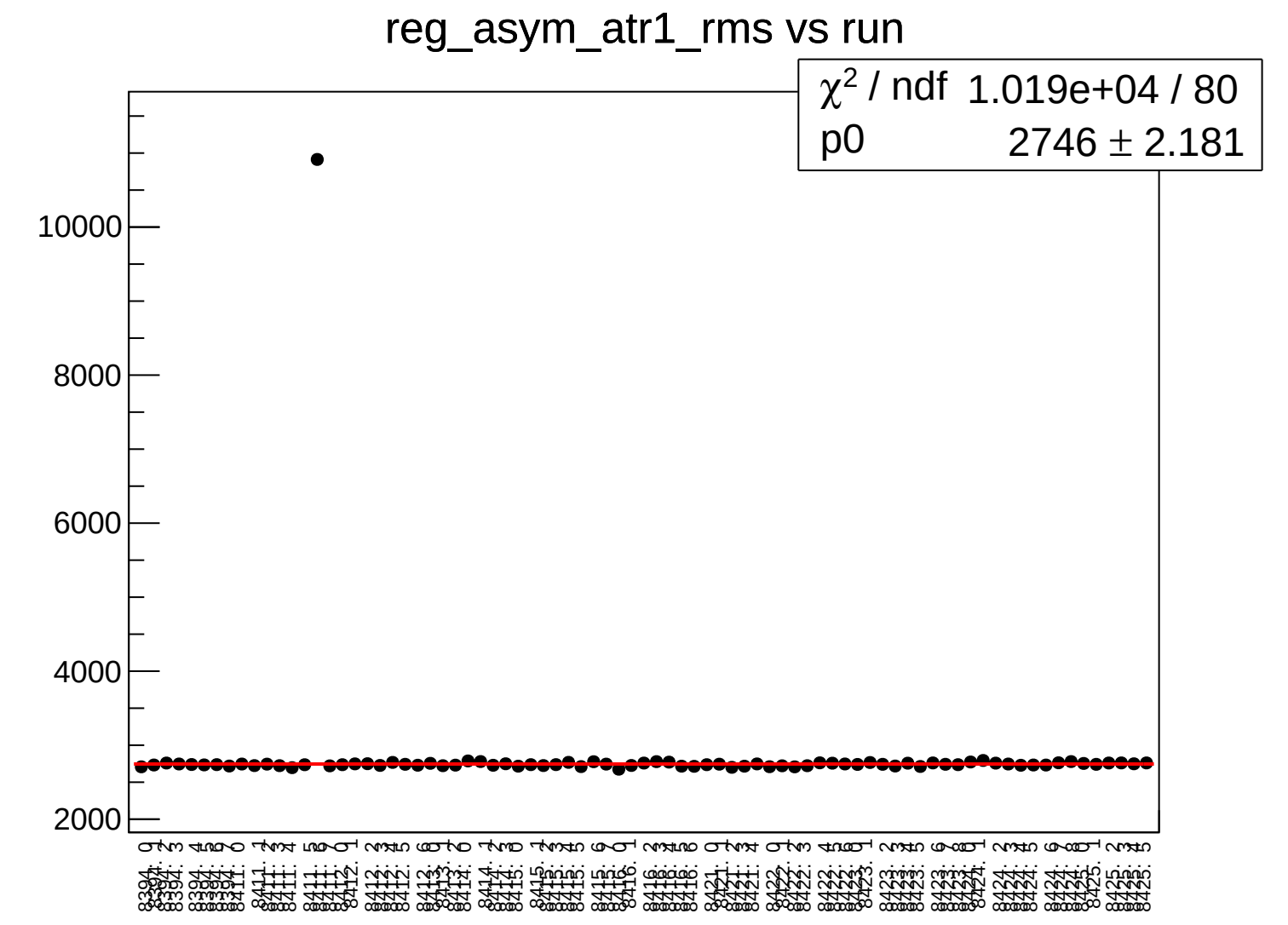

asym_atl2_mean vs run
×10^3
χ² / ndf 65.96 / 80
p0 −4975 ± 1.15e+04
pull
Entries 81
Mean 36.42
Std Dev 22.39

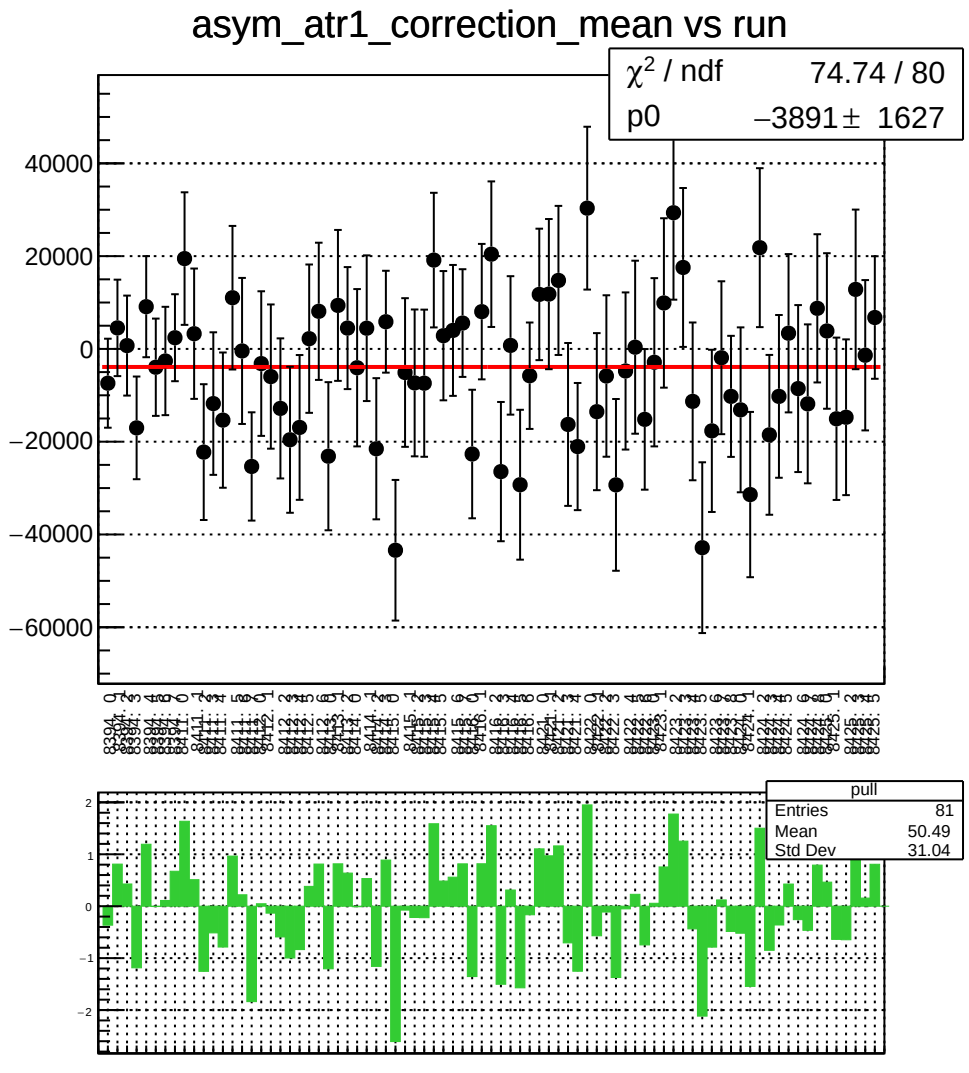

pull1D
Entries 81
Mean 0.01236
Std Dev 0.9023

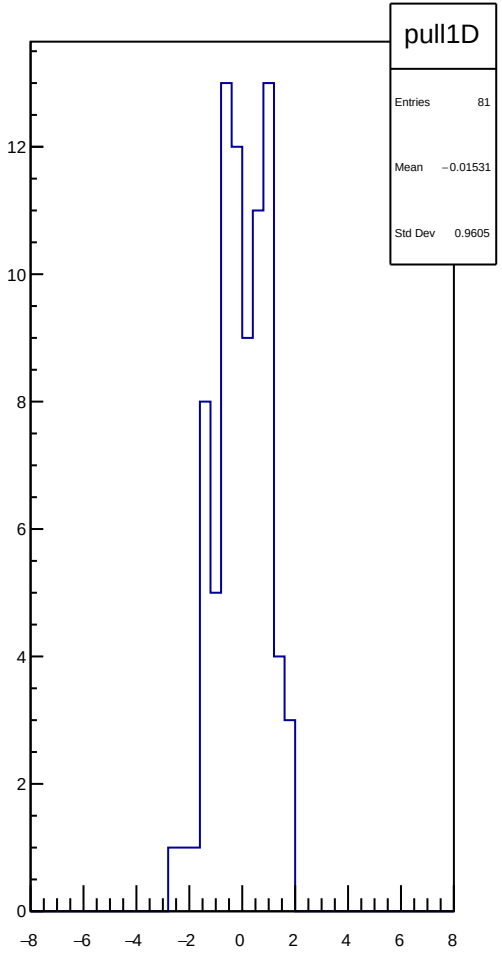

asym_atl2_rms vs run
χ² / ndf 1.671e+04 / 80
p0 1.022e+04 ± 8.133
12000
11000
10000
9000
8000

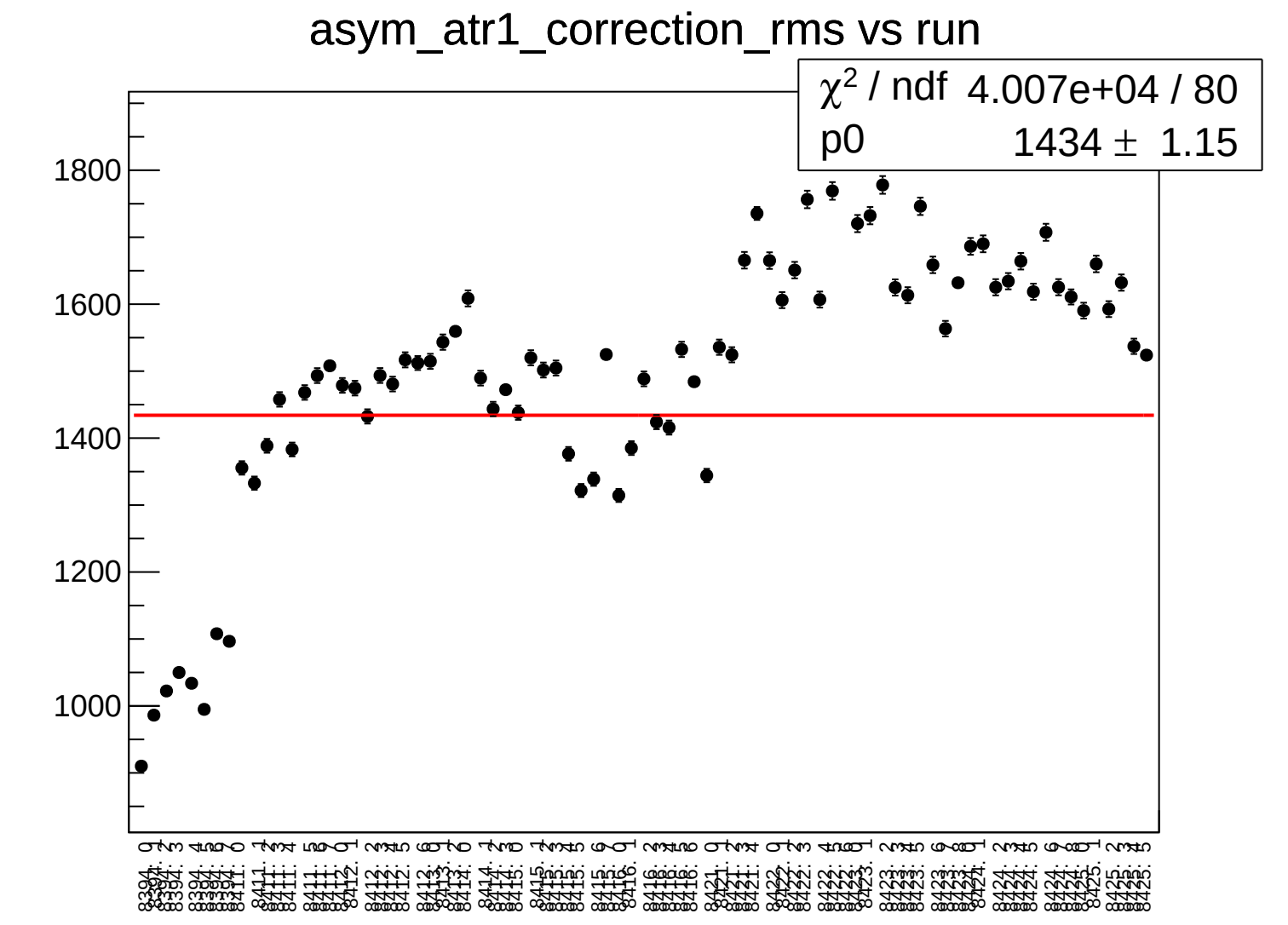

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 73.18 / 80
p0 −1780 ± 3085
pull
Entries 81
Mean 36.6
Std Dev 39.46

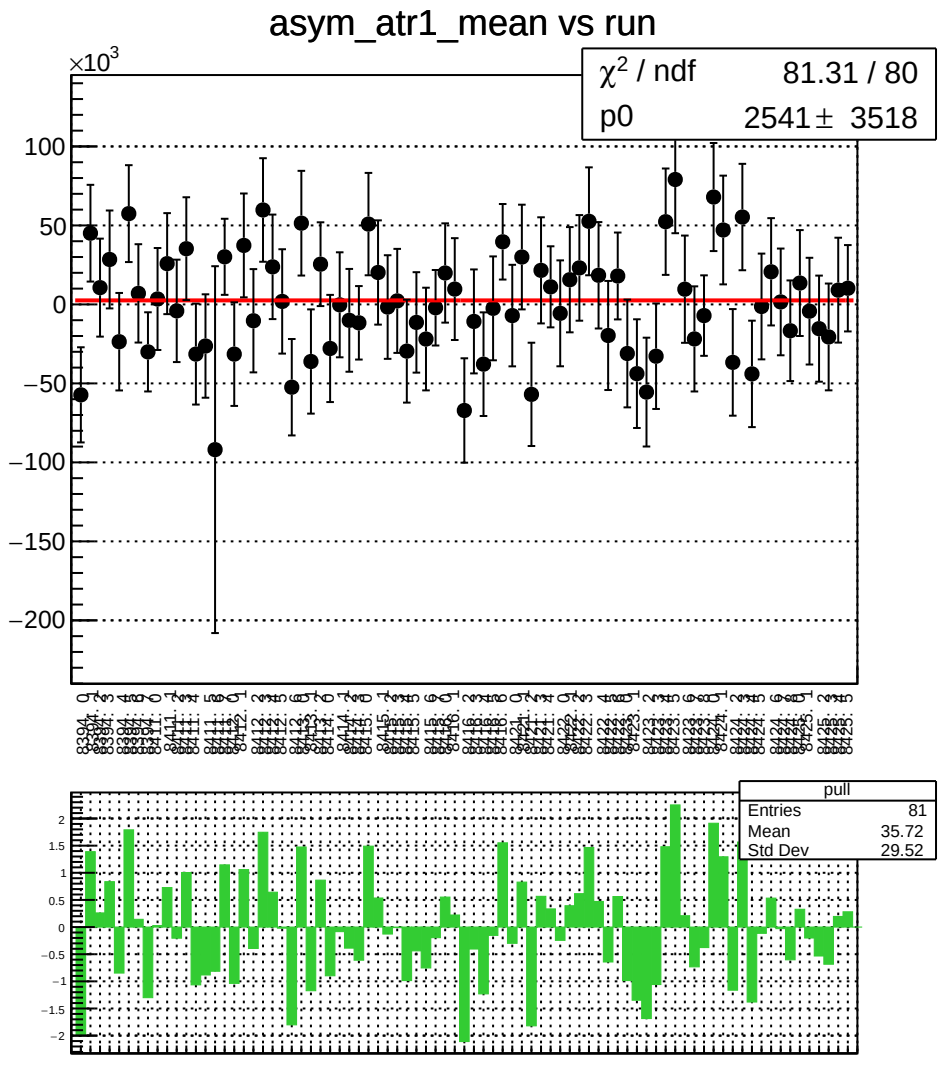

pull1D
Entries 81
Mean −0.0143
Std Dev 0.9504

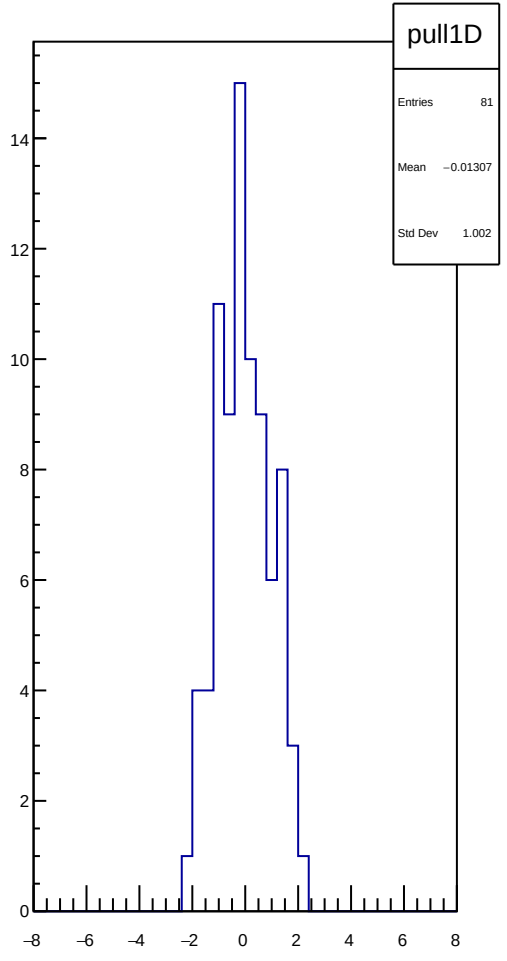

reg_asym_atr1_rms vs run
χ^2 / ndf 1.019e+04 / 80
p0 2746 ± 2.181
10000
8000
6000
4000
2000

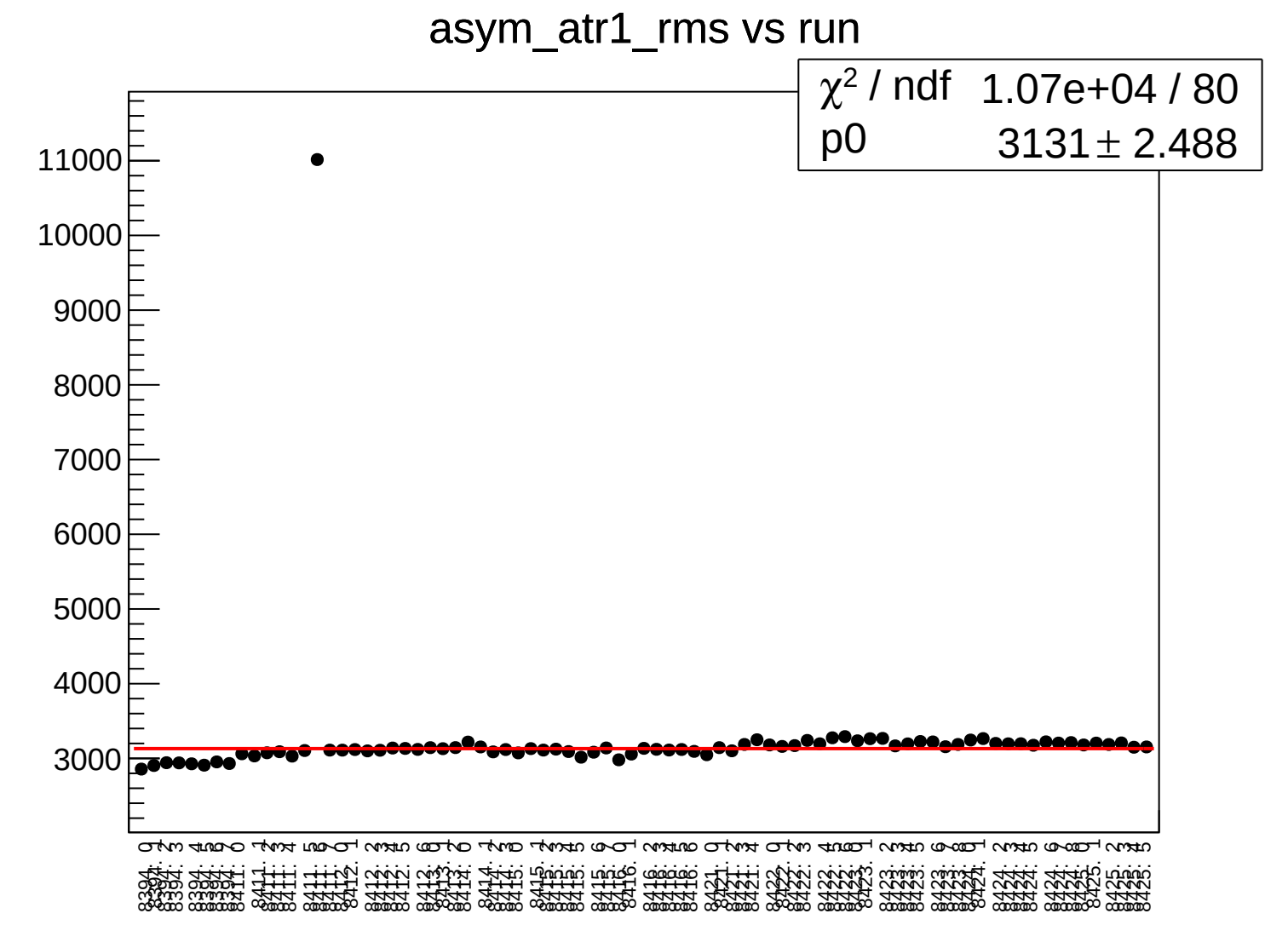

asym_atr1_correction_mean vs run
χ² / ndf 74.74 / 80
p0 −3891 ± 1627
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 50.49
Std Dev 31.04
2
1
0
−1
−2

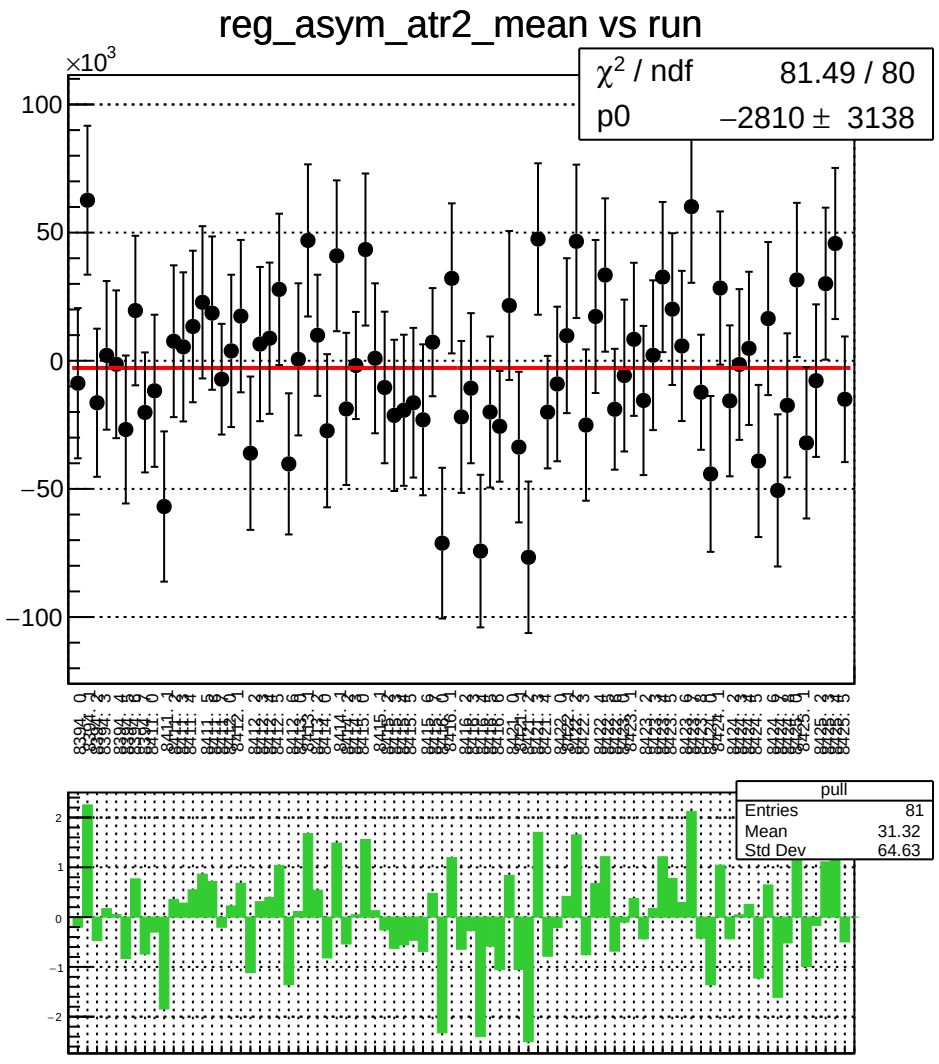

pull1D
Entries 81
Mean −0.01531
Std Dev 0.9605
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

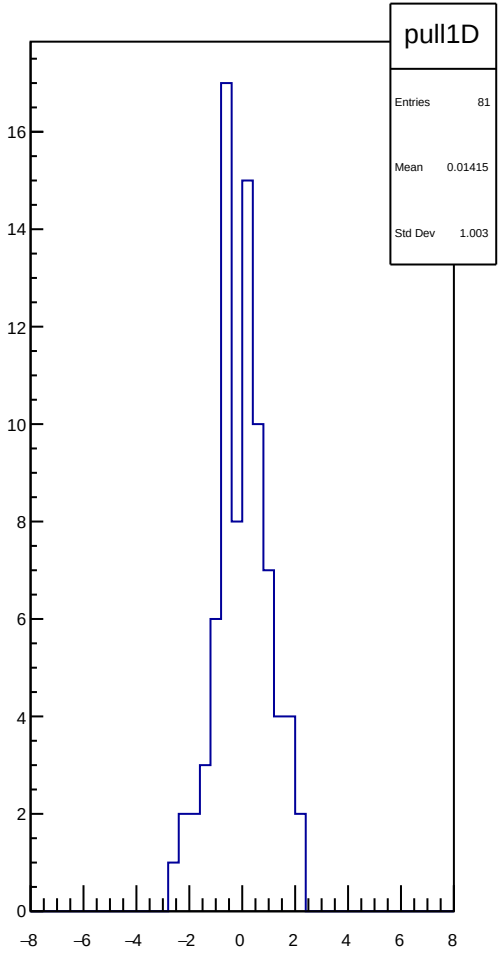

asym_atr1_correction_rms vs run
χ² / ndf 4.007e+04 / 80
p0 1434 ± 1.15
1800
1600
1400
1200
1000

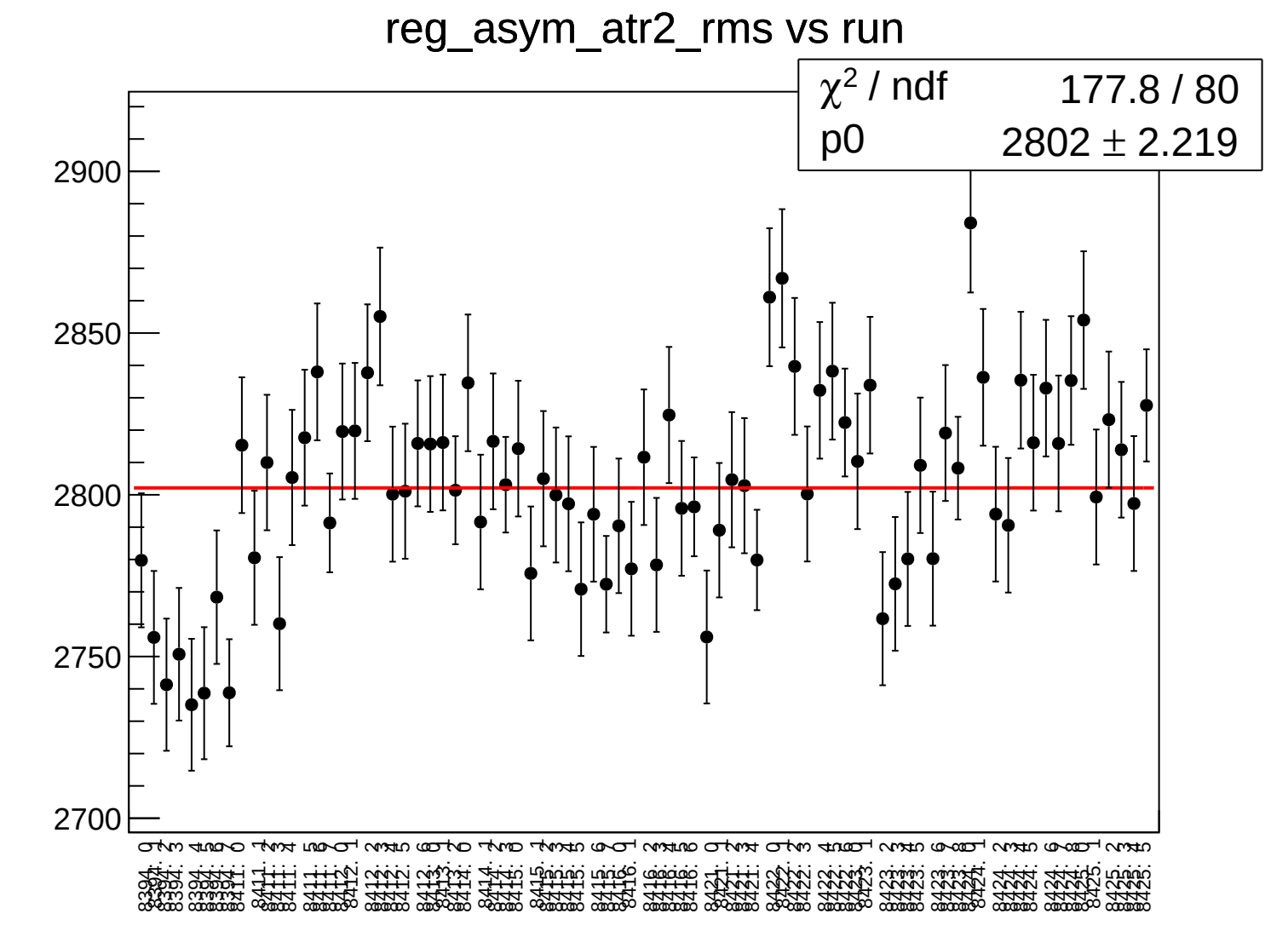

asym_atr1_mean vs run
×10^3
χ^2 / ndf 81.31 / 80
p0 2541 ± 3518
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean 35.72
Std Dev 29.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

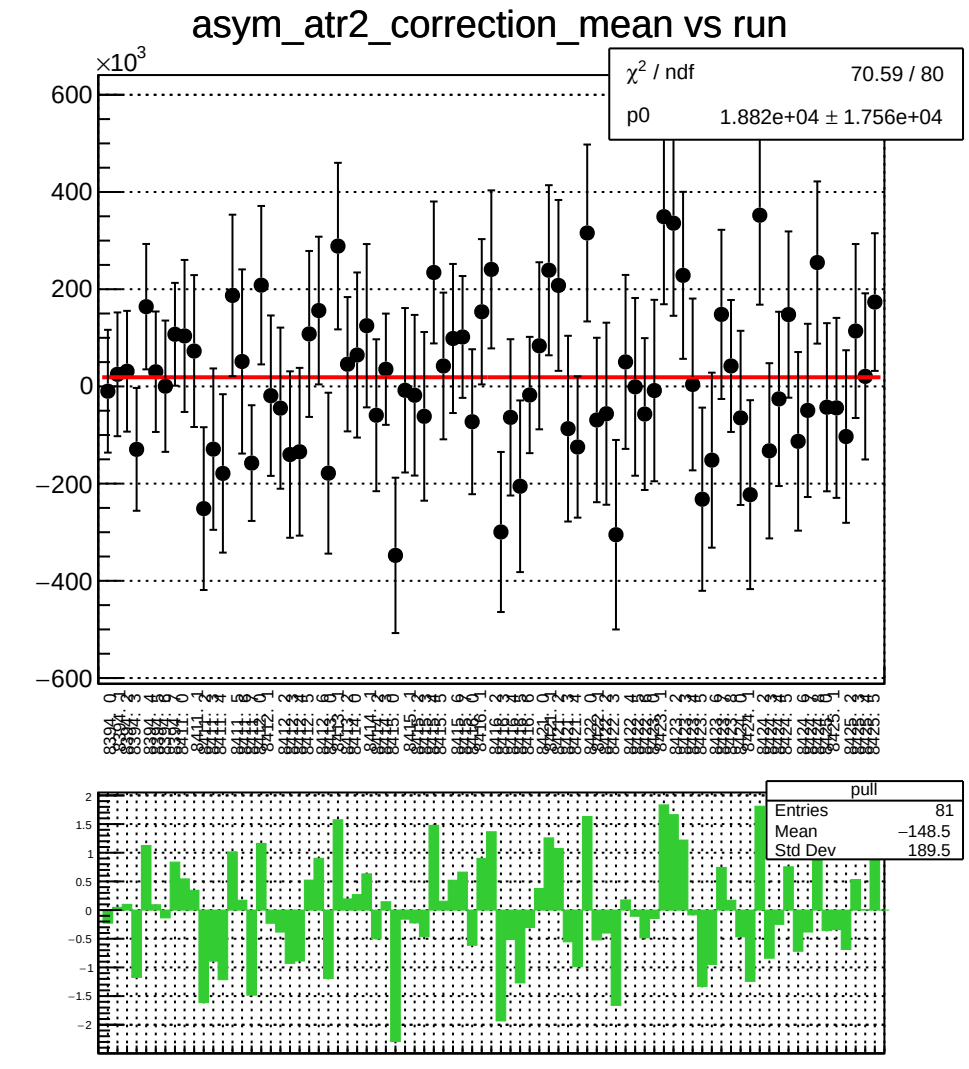

pull1D
Entries 81
Mean −0.01307
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

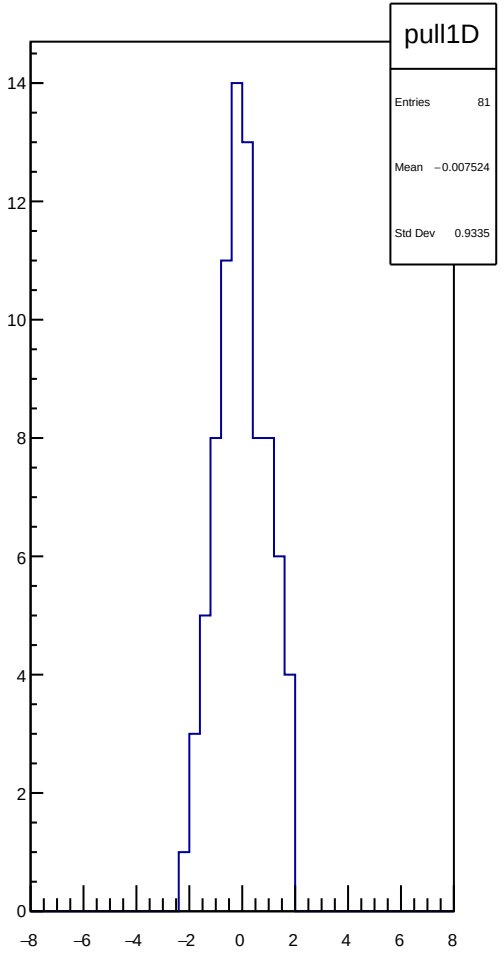

asym_atr1_rms vs run
χ² / ndf 1.07e+04 / 80
p0 3131 ± 2.488
11000
10000
9000
8000
7000
6000
5000
4000
3000

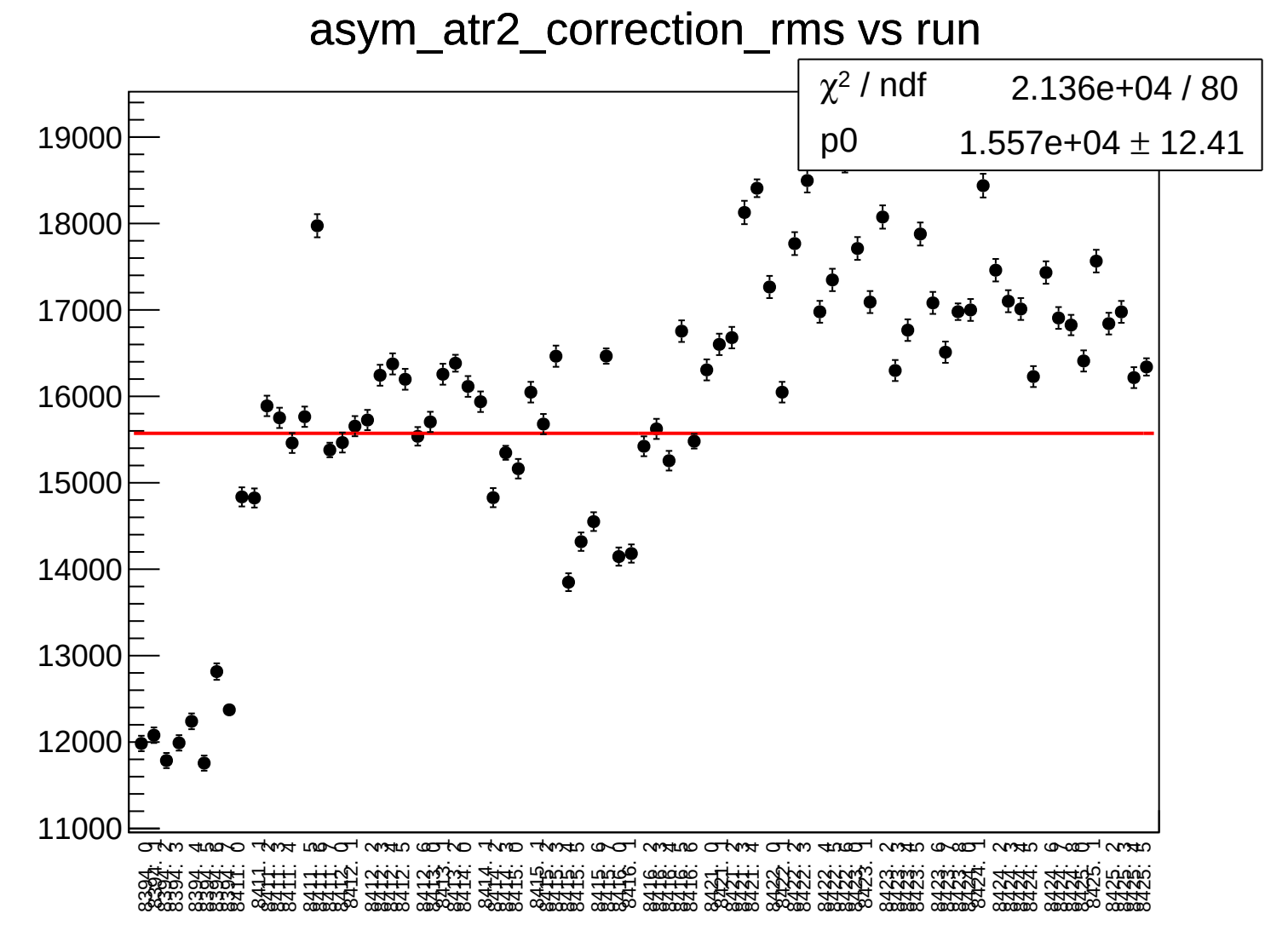

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 81.49 / 80
p0 −2810 ± 3138
pull
Entries 81
Mean 31.32
Std Dev 64.63

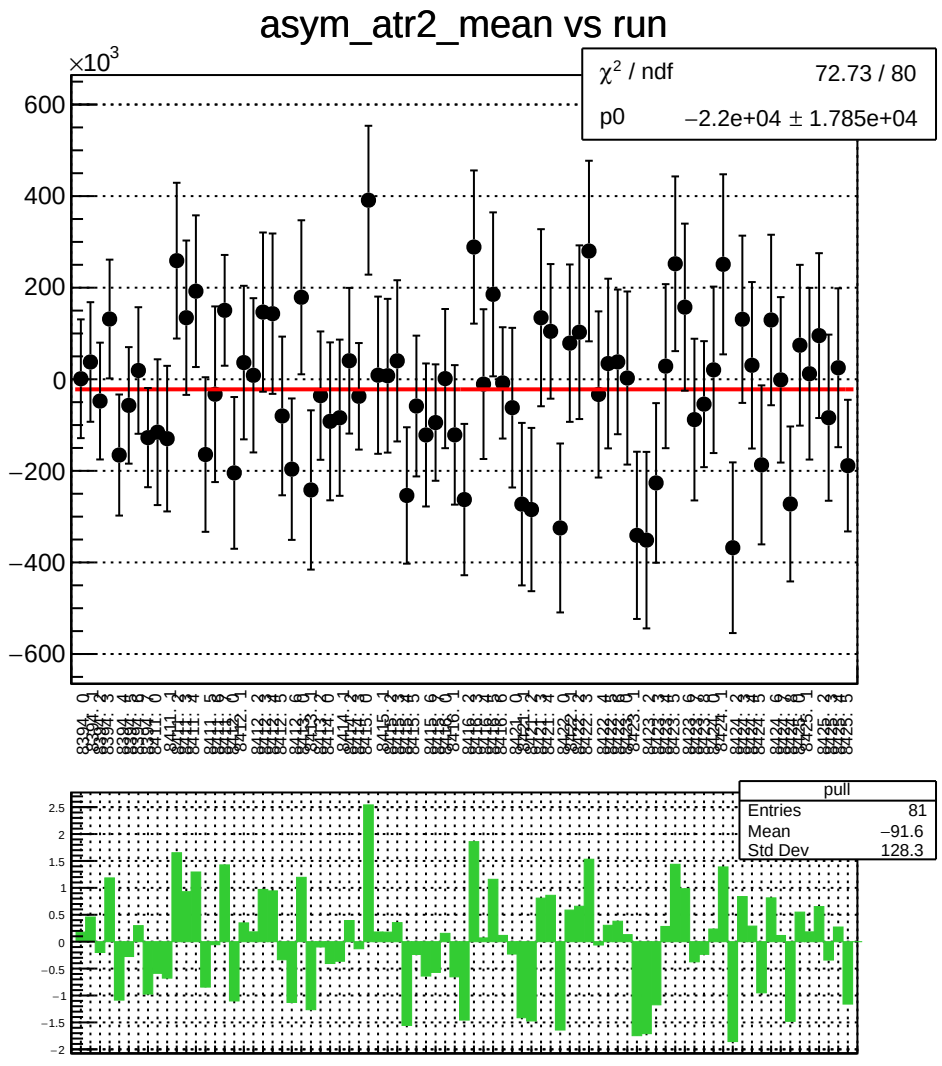

pull1D
Entries 81
Mean 0.01415
Std Dev 1.003

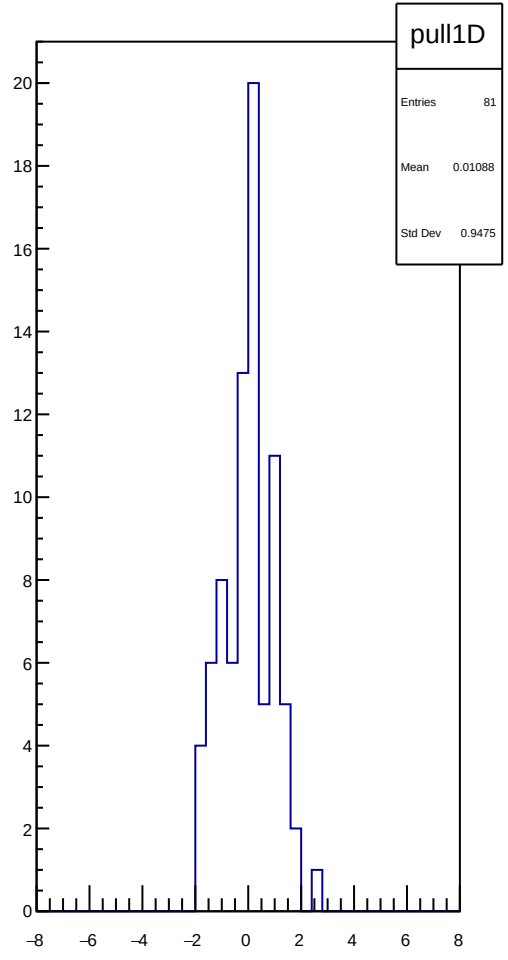

reg_asym_atr2_rms vs run
χ^2 / ndf 177.8 / 80
p0 2802 ± 2.219
2900
2850
2800
2750
2700

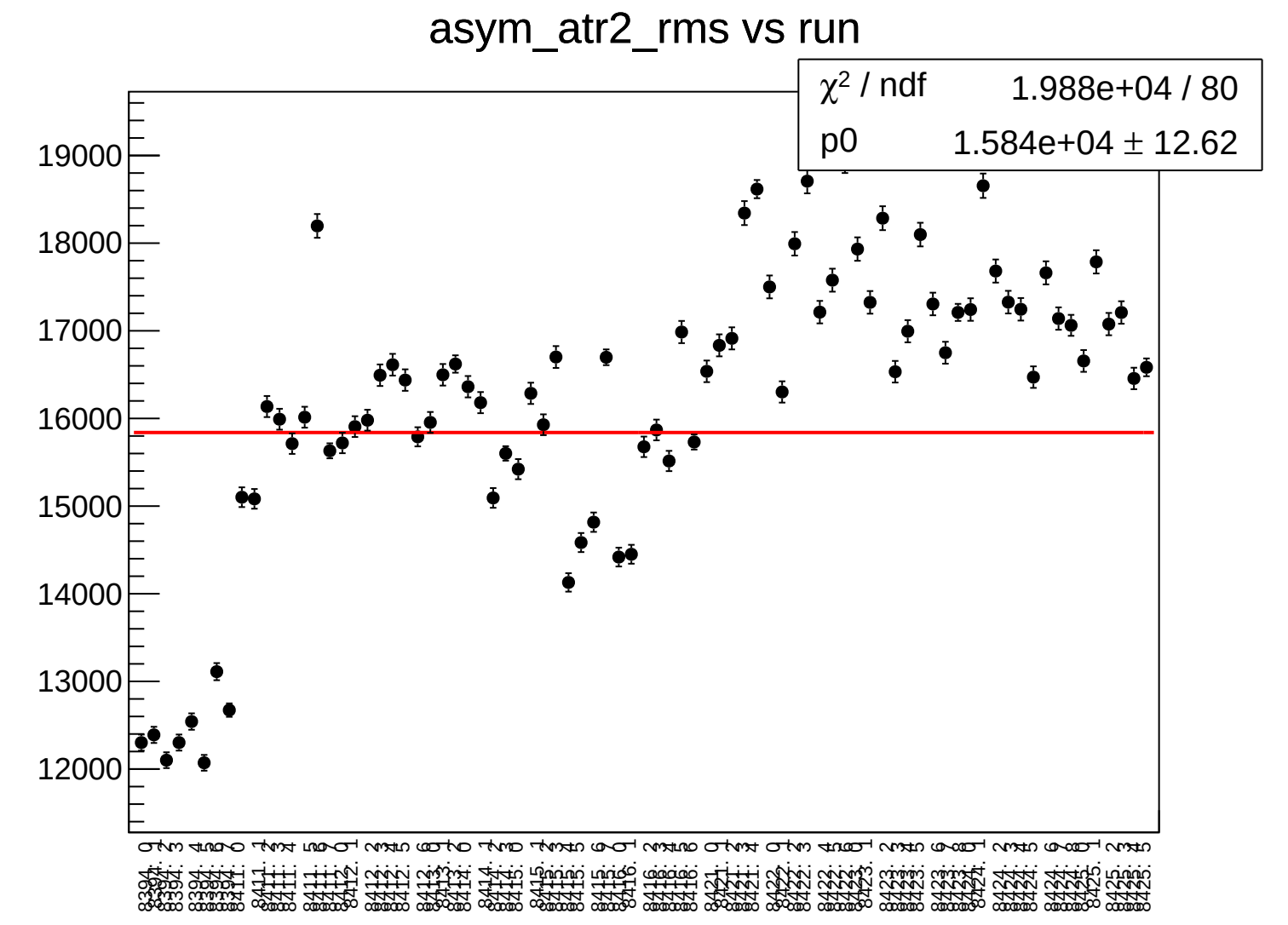

asym_atr2_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 70.59 / 80
p0 1.882e+04 ± 1.756e+04
pull
Entries 81
Mean −148.5
Std Dev 189.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

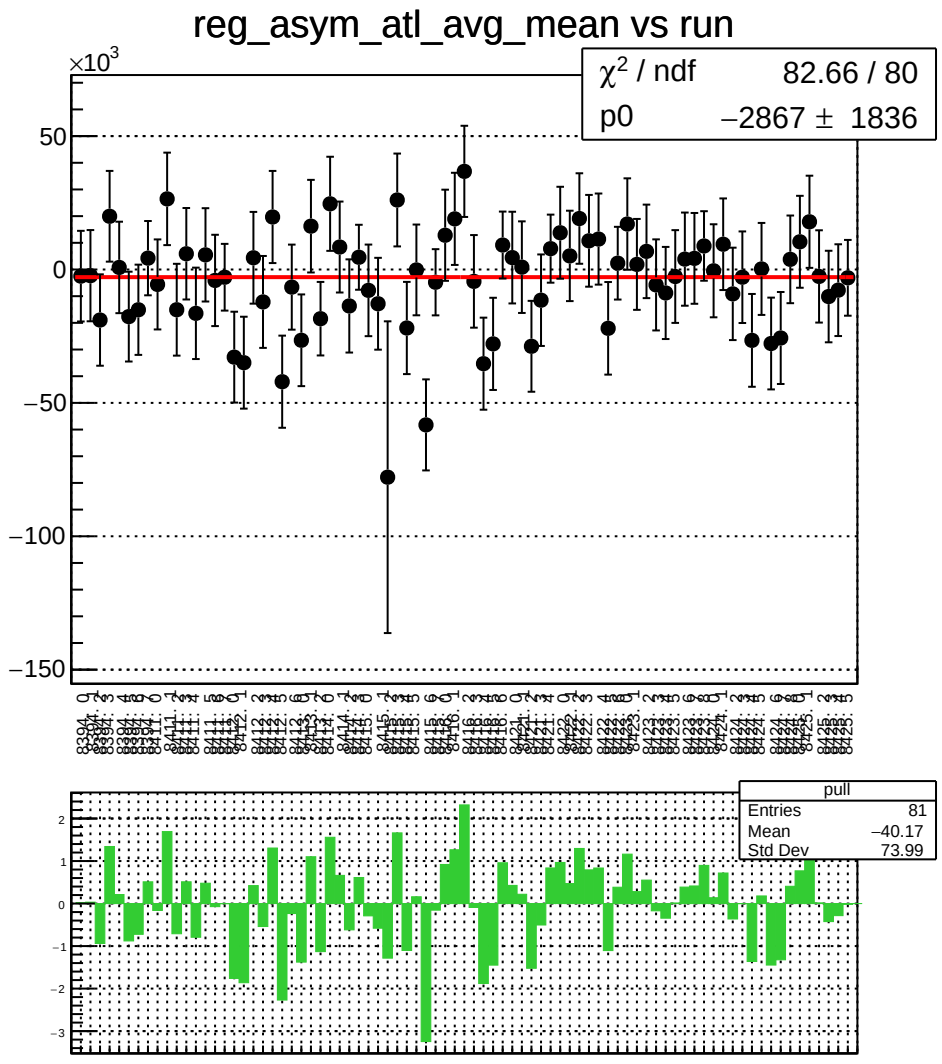

pull1D
Entries 81
Mean −0.007524
Std Dev 0.9335
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

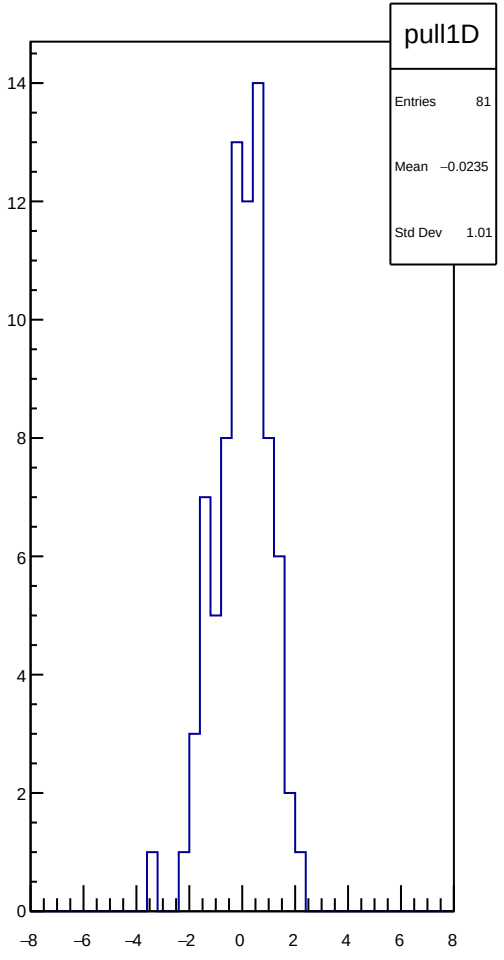

asym_atr2_correction_rms vs run
χ² / ndf 2.136e+04 / 80
p0 1.557e+04 ± 12.41
19000
18000
17000
16000
15000
14000
13000
12000
11000

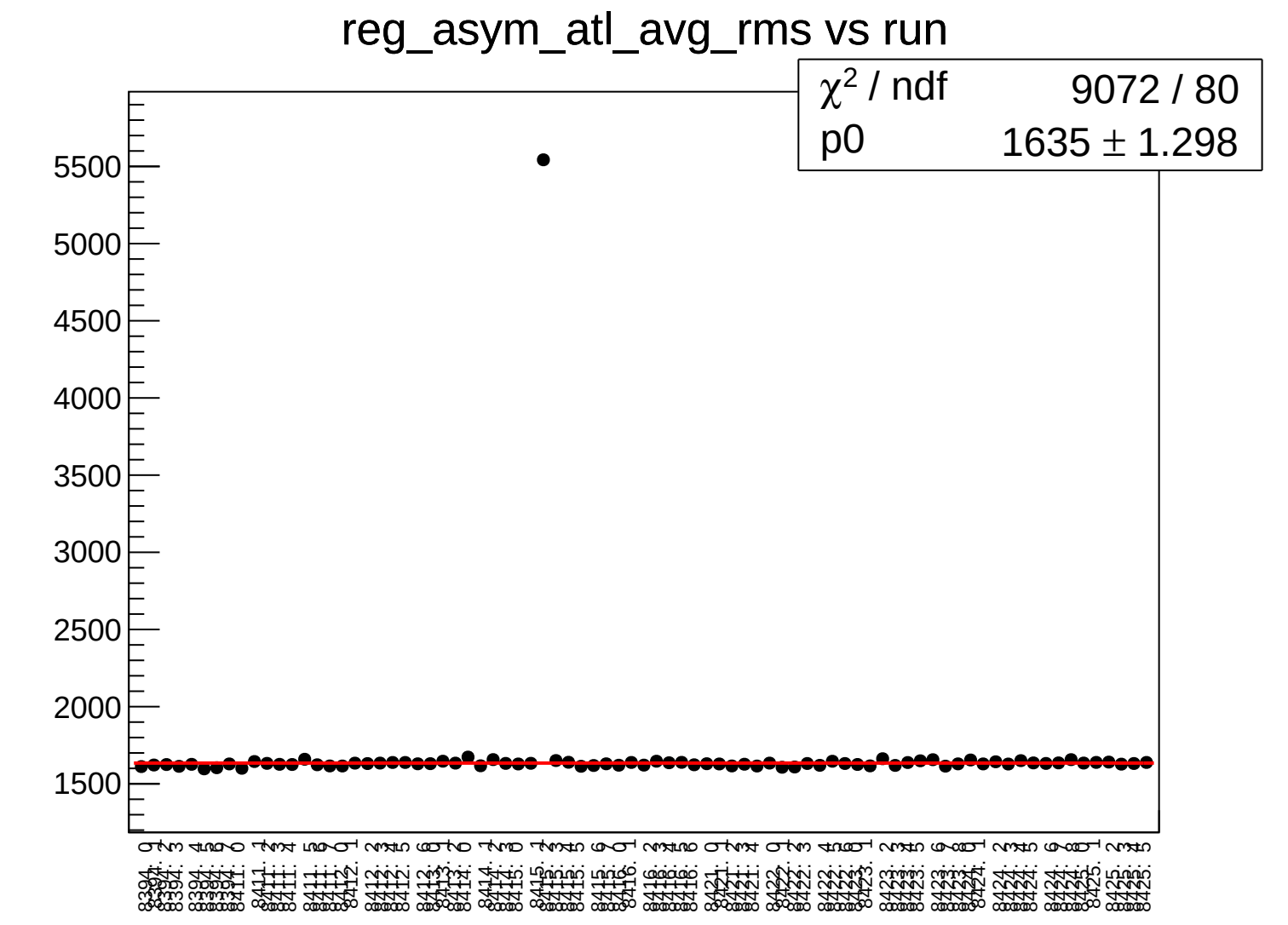

asym_atr2_mean vs run
×10^3
χ² / ndf 72.73 / 80
p0 −2.2e+04 ± 1.785e+04
pull
Entries 81
Mean −91.6
Std Dev 128.3

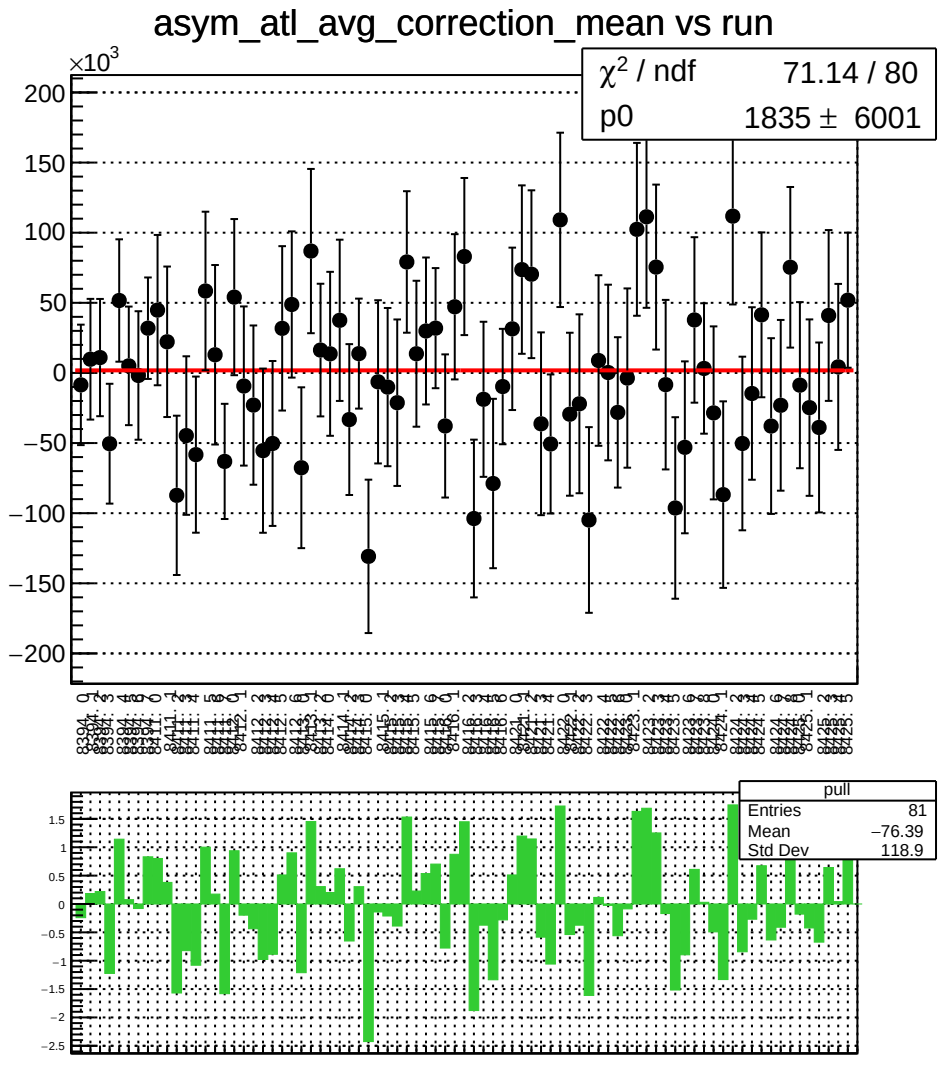

pull1D
Entries 81
Mean 0.01088
Std Dev 0.9475

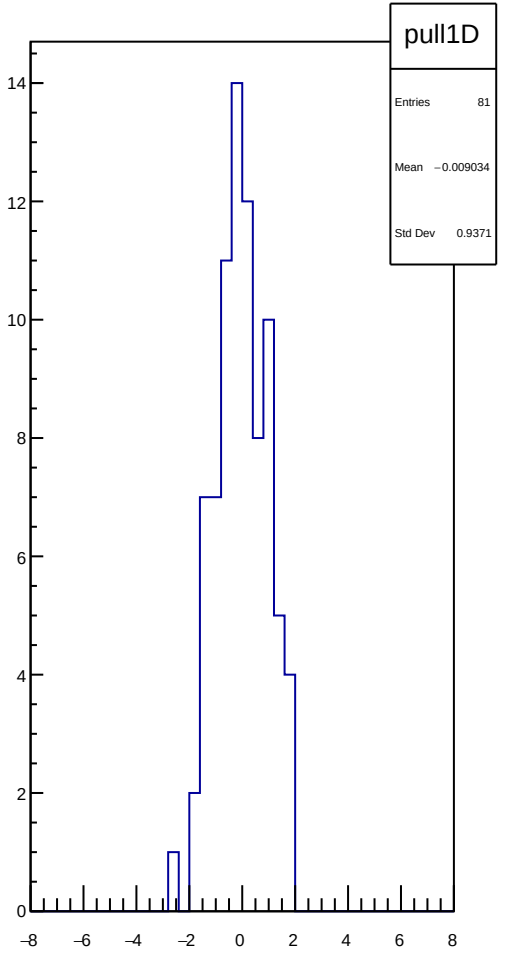

asym_atr2_rms vs run
χ² / ndf 1.988e+04 / 80
p0 1.584e+04 ± 12.62
19000
18000
17000
16000
15000
14000
13000
12000

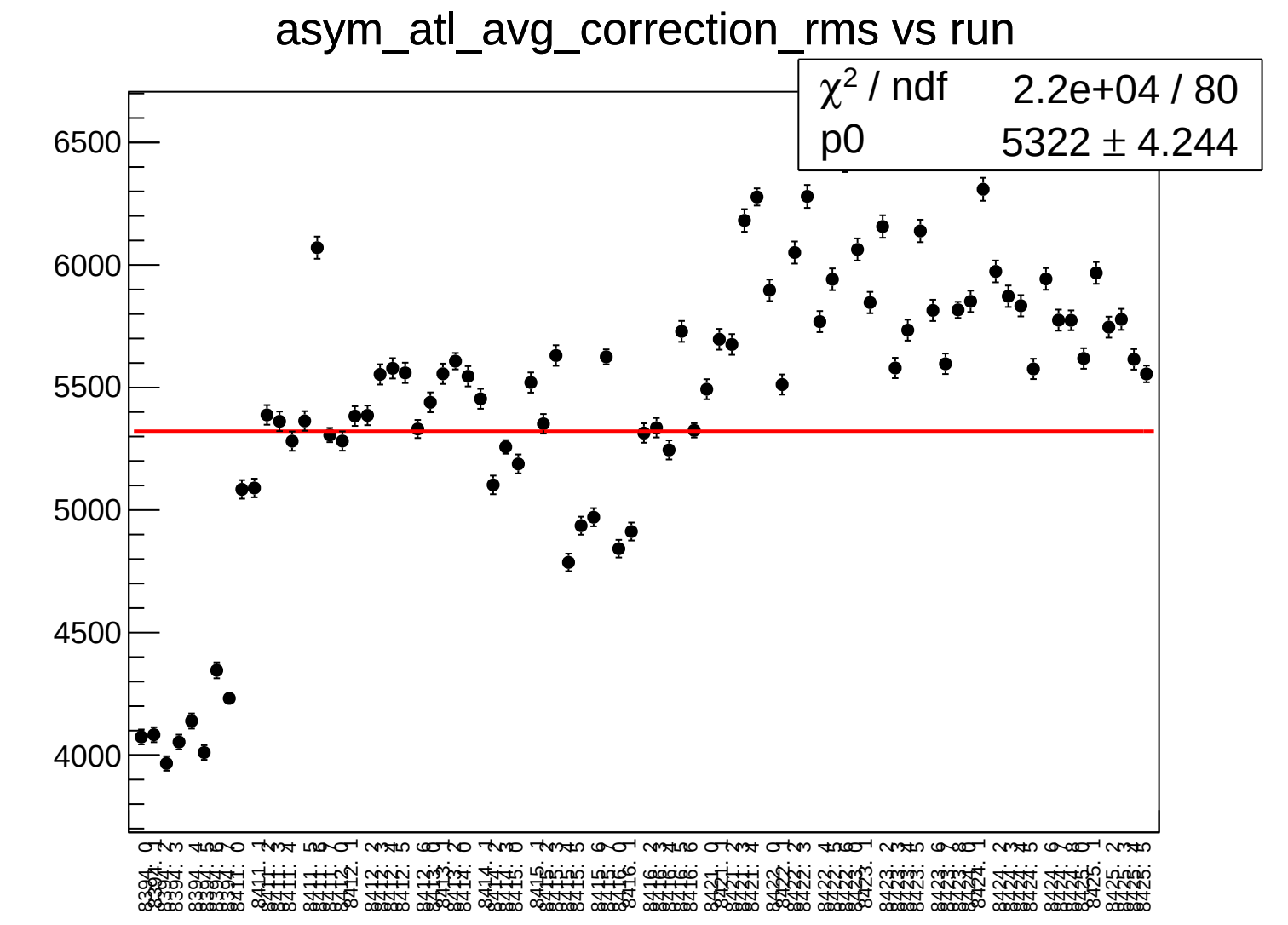

reg_asym_atl_avg_mean vs run
×10^3
χ² / ndf 82.66 / 80
p0 −2867 ± 1836
50
0
−50
−100
−150
pull
Entries 81
Mean −40.17
Std Dev 73.99
2
1
0
−1
−2
−3

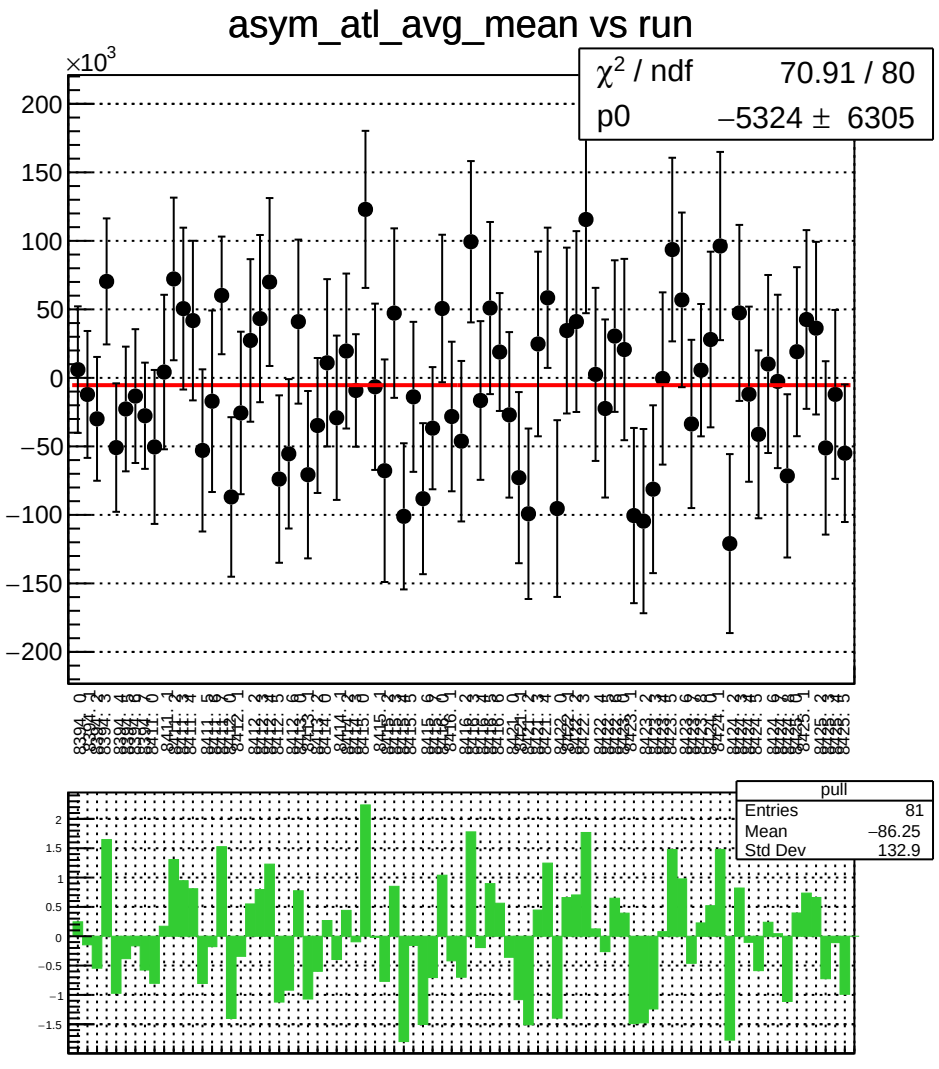

pull1D
Entries 81
Mean −0.0235
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

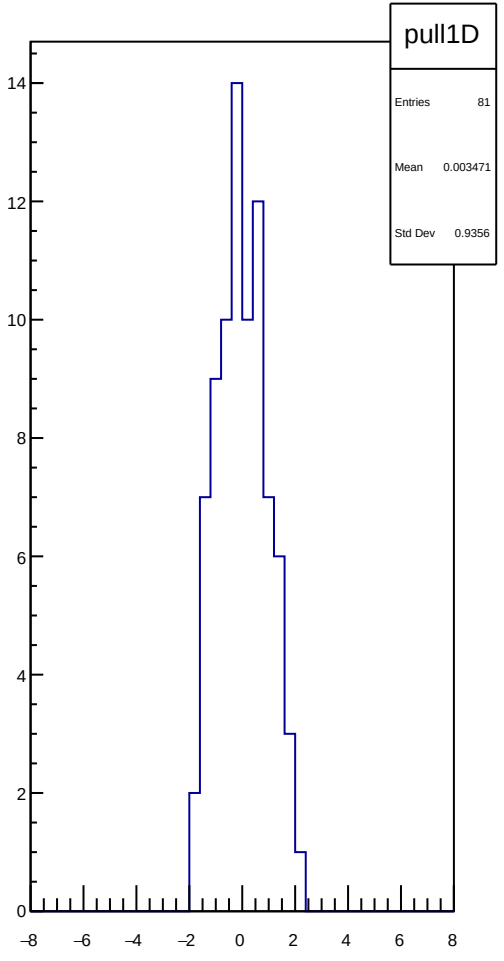

reg_asym_atl_avg_rms vs run
χ^2 / ndf 9072 / 80
p0 1635 ± 1.298
5500
5000
4500
4000
3500
3000
2500
2000
1500

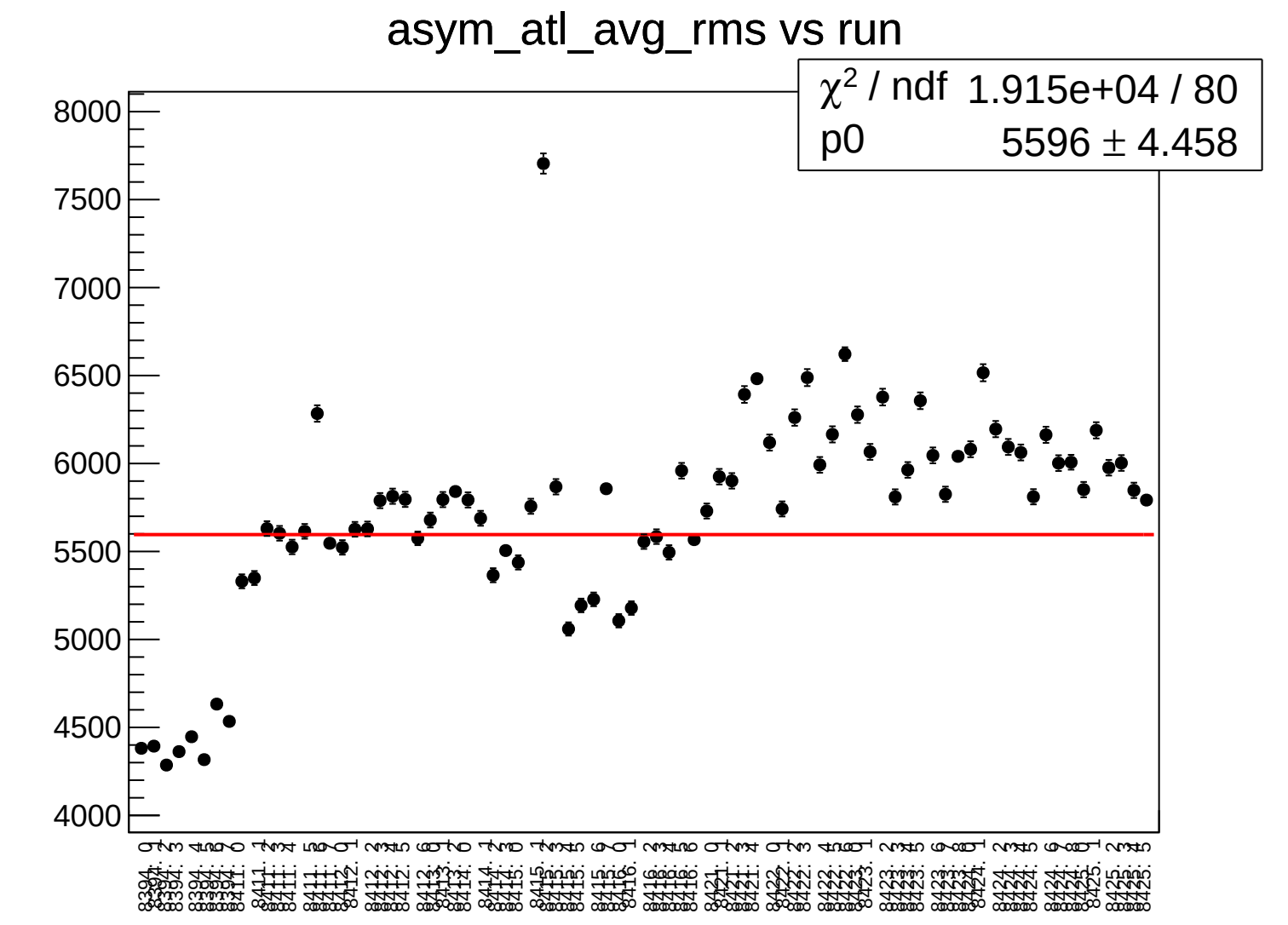

asym_atl_avg_correction_mean vs run
×10^3
χ^2 / ndf 71.14 / 80
p0 1835 ± 6001
pull
Entries 81
Mean −76.39
Std Dev 118.9

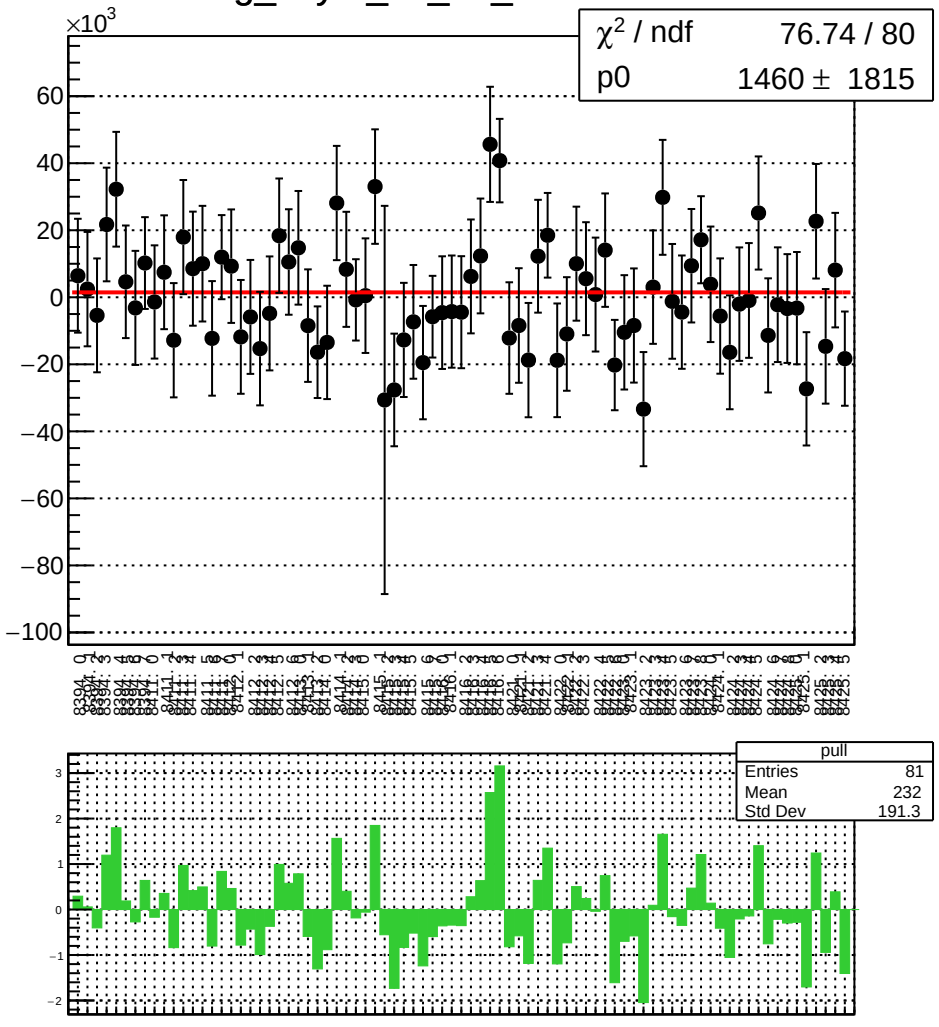

pull1D
Entries 81
Mean −0.009034
Std Dev 0.9371

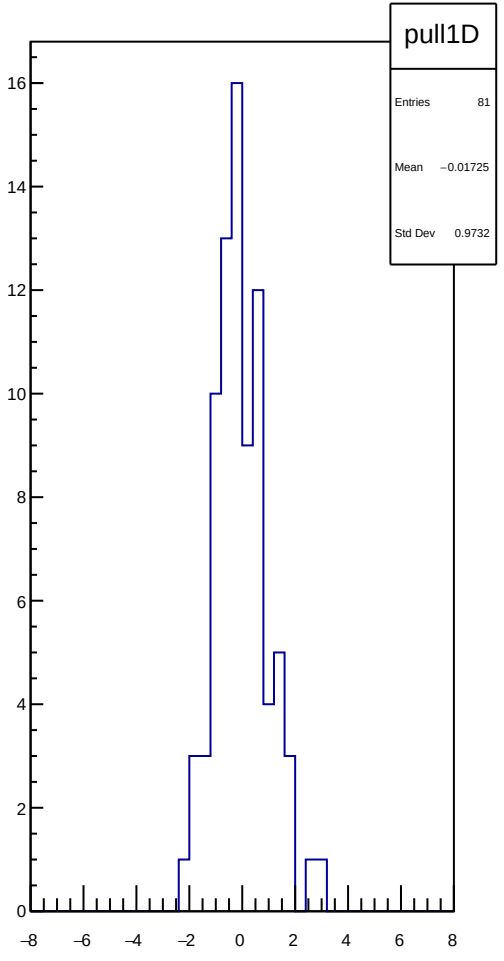

asym_atl_avg_correction_rms vs run
χ² / ndf 2.2e+04 / 80
p0 5322 ± 4.244
6500
6000
5500
5000
4500
4000

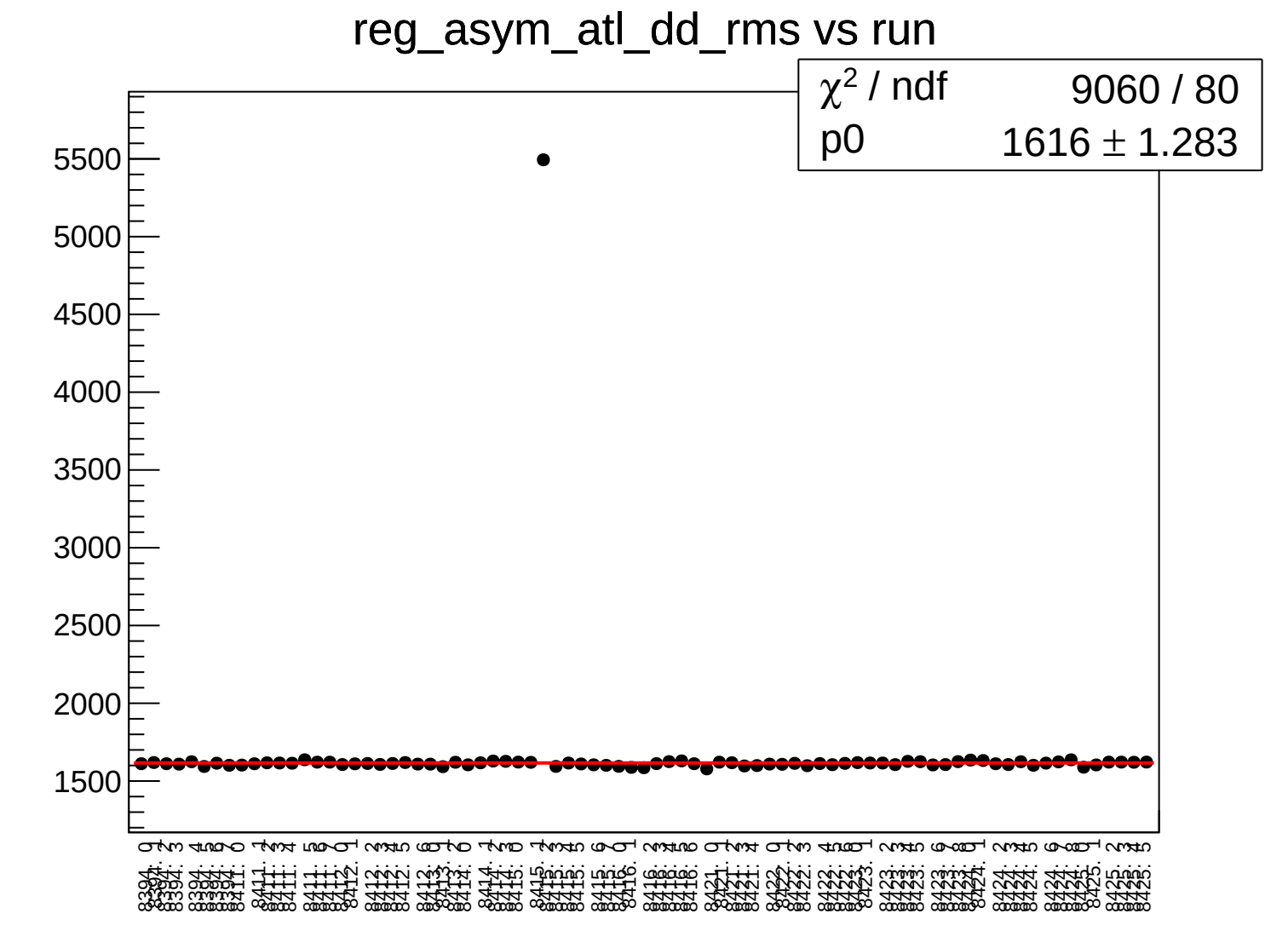

asym_atl_avg_mean vs run
×10^3
χ² / ndf 70.91 / 80
p0 −5324 ± 6305
pull
Entries 81
Mean −86.25
Std Dev 132.9

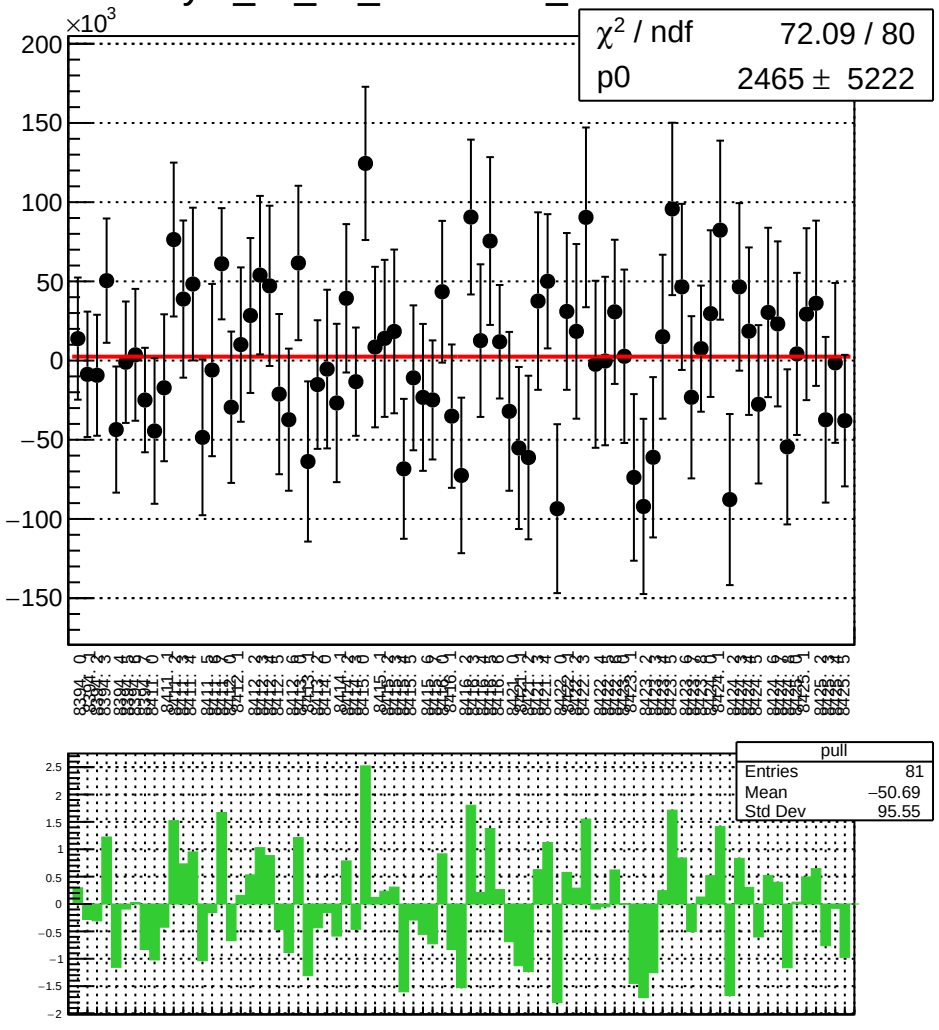

pull1D
Entries 81
Mean 0.003471
Std Dev 0.9356

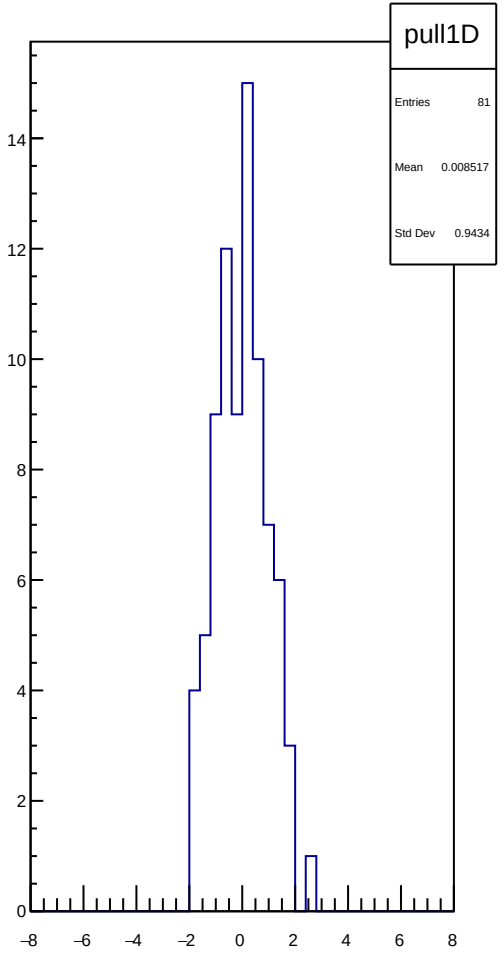

asym_atl_avg_rms vs run
χ² / ndf 1.915e+04 / 80
p0 5596 ± 4.458
8000
7500
7000
6500
6000
5500
5000
4500
4000

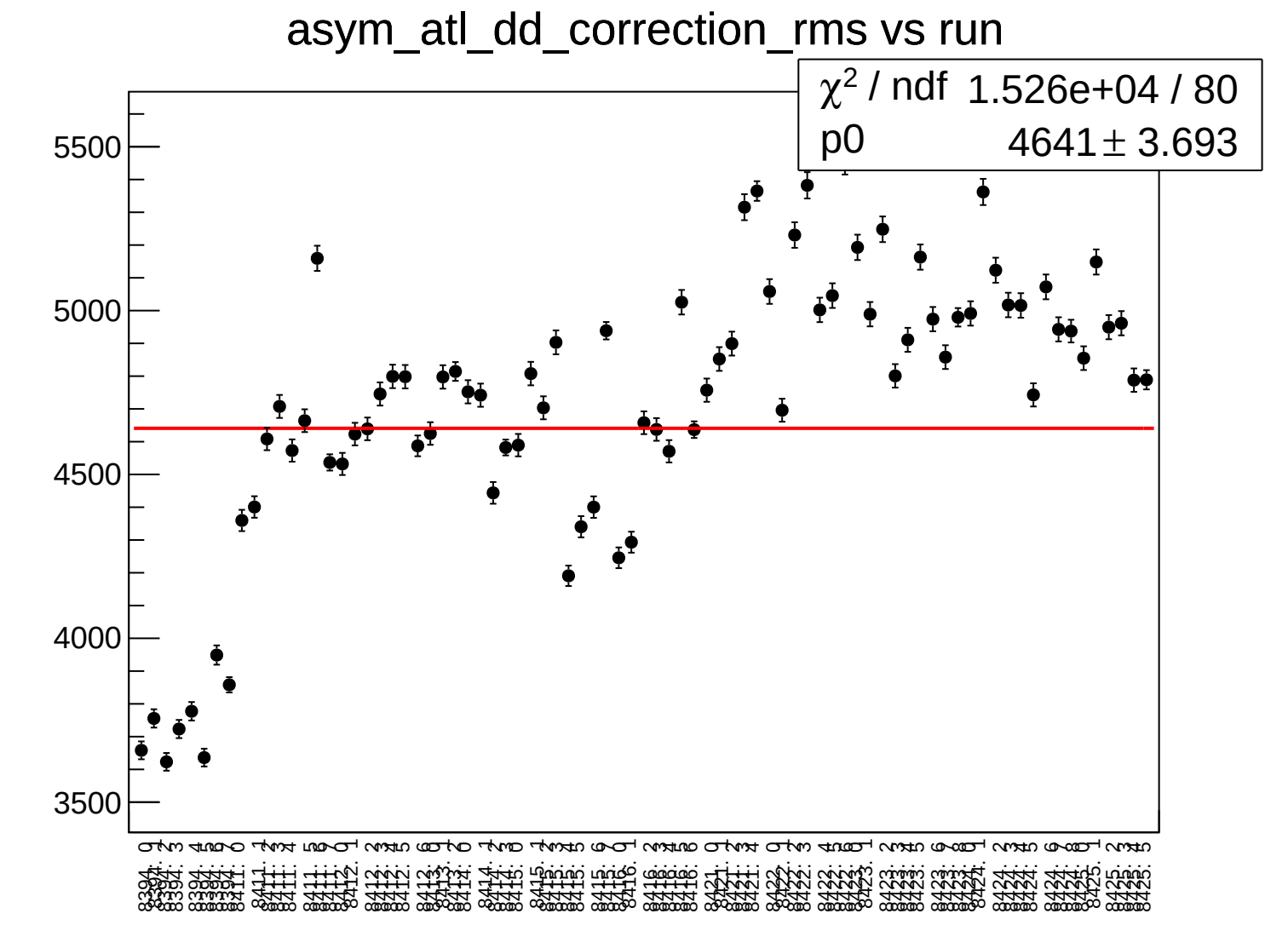

reg_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 76.74 / 80
p0 1460 ± 1815
pull
Entries 81
Mean 232
Std Dev 191.3

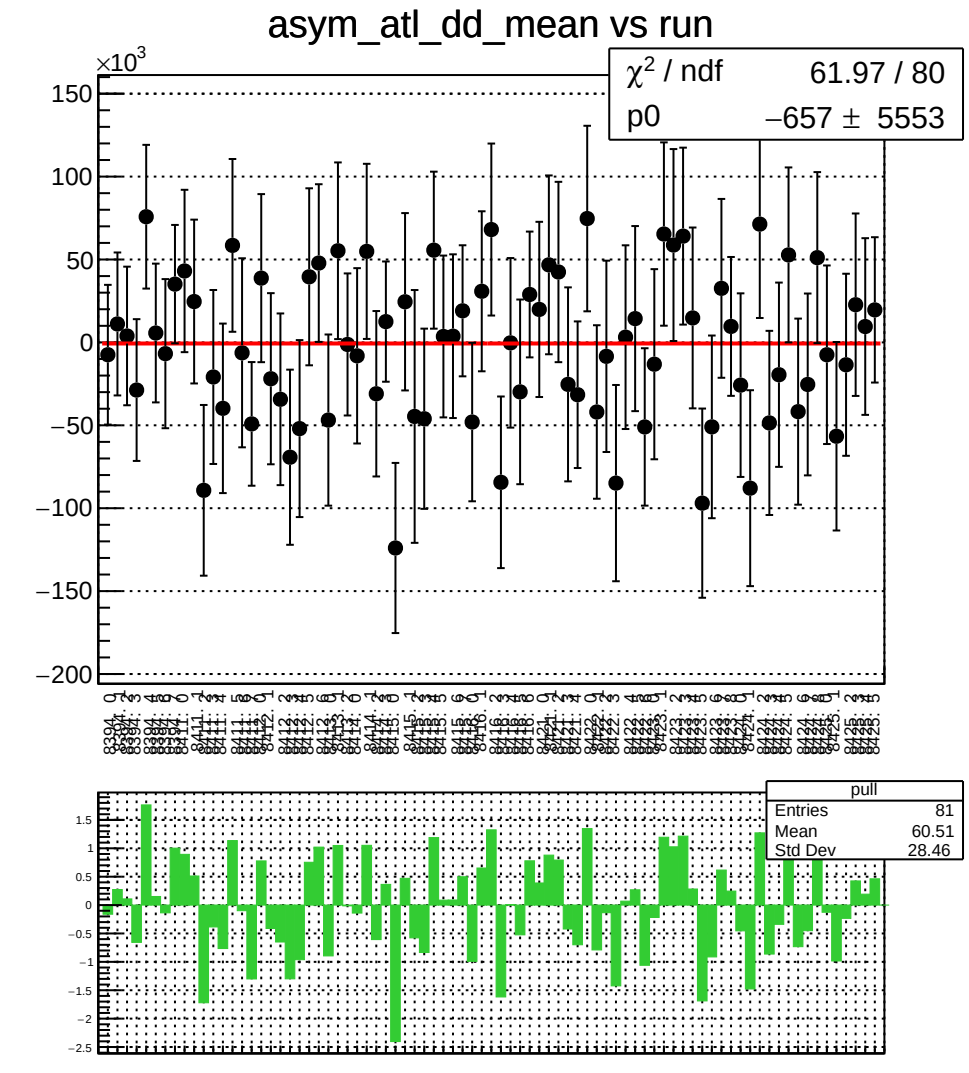

pull1D
Entries 81
Mean −0.01725
Std Dev 0.9732

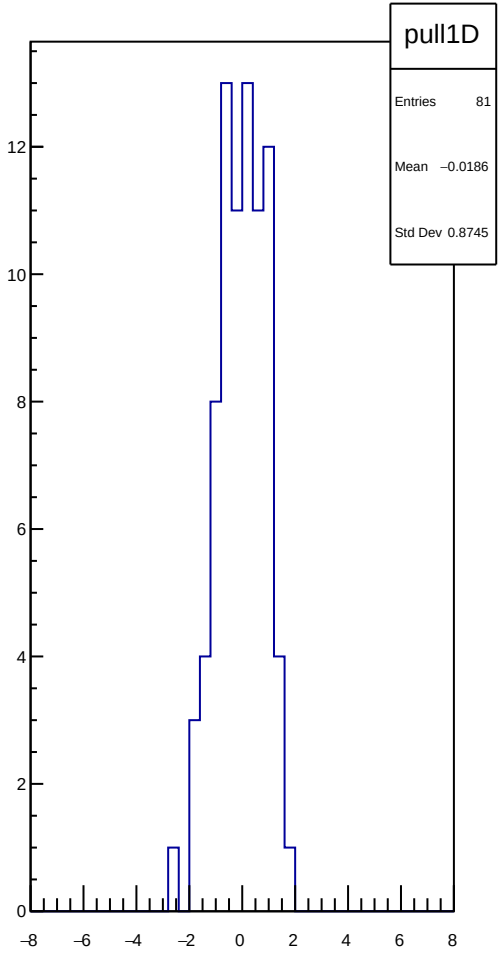

reg_asym_atl_dd_rms vs run
χ^2 / ndf 9060 / 80
p0 1616 ± 1.283
5500
5000
4500
4000
3500
3000
2500
2000
1500

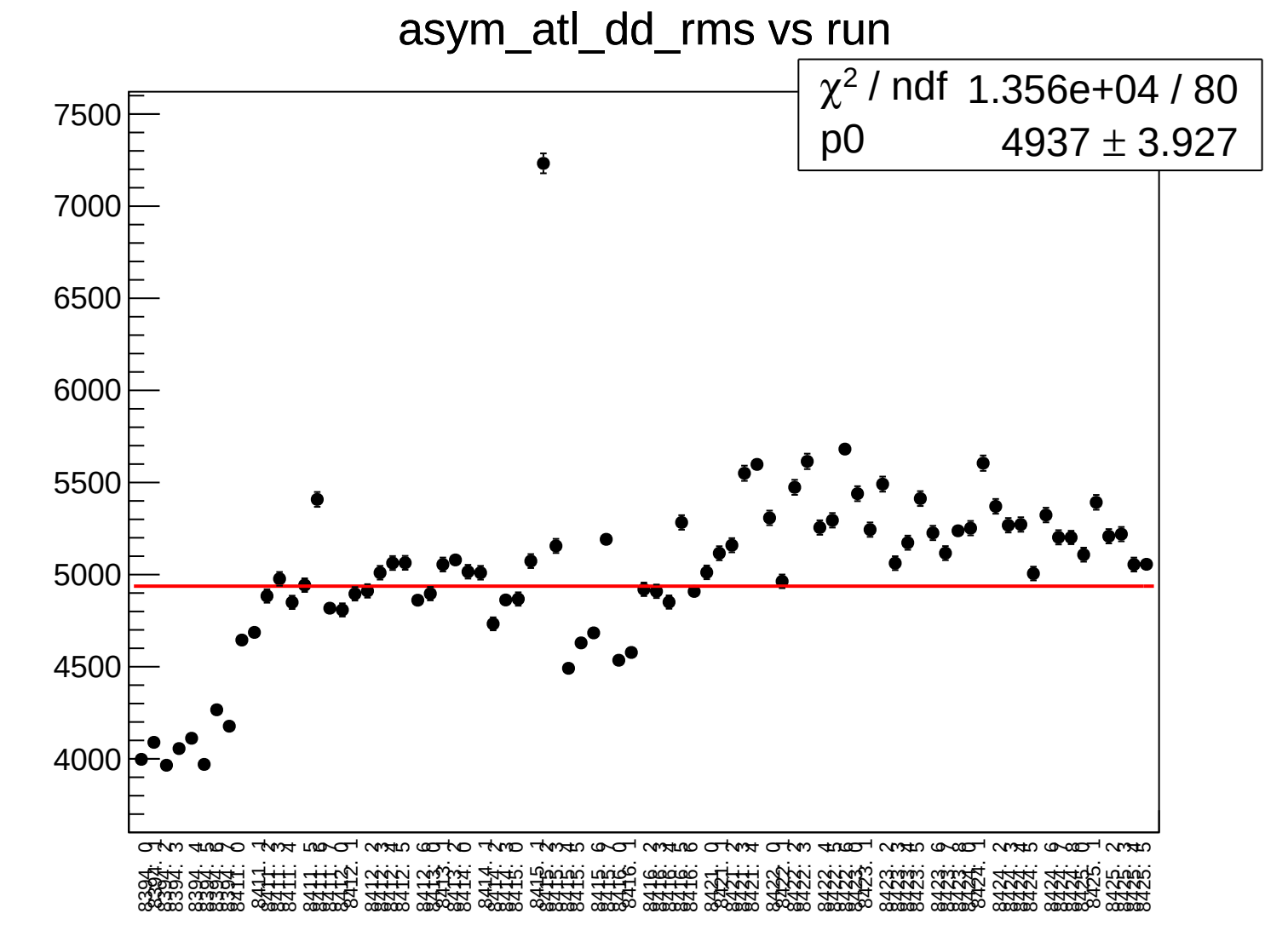

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 72.09 / 80
p0 2465 ± 5222
pull
Entries 81
Mean −50.69
Std Dev 95.55

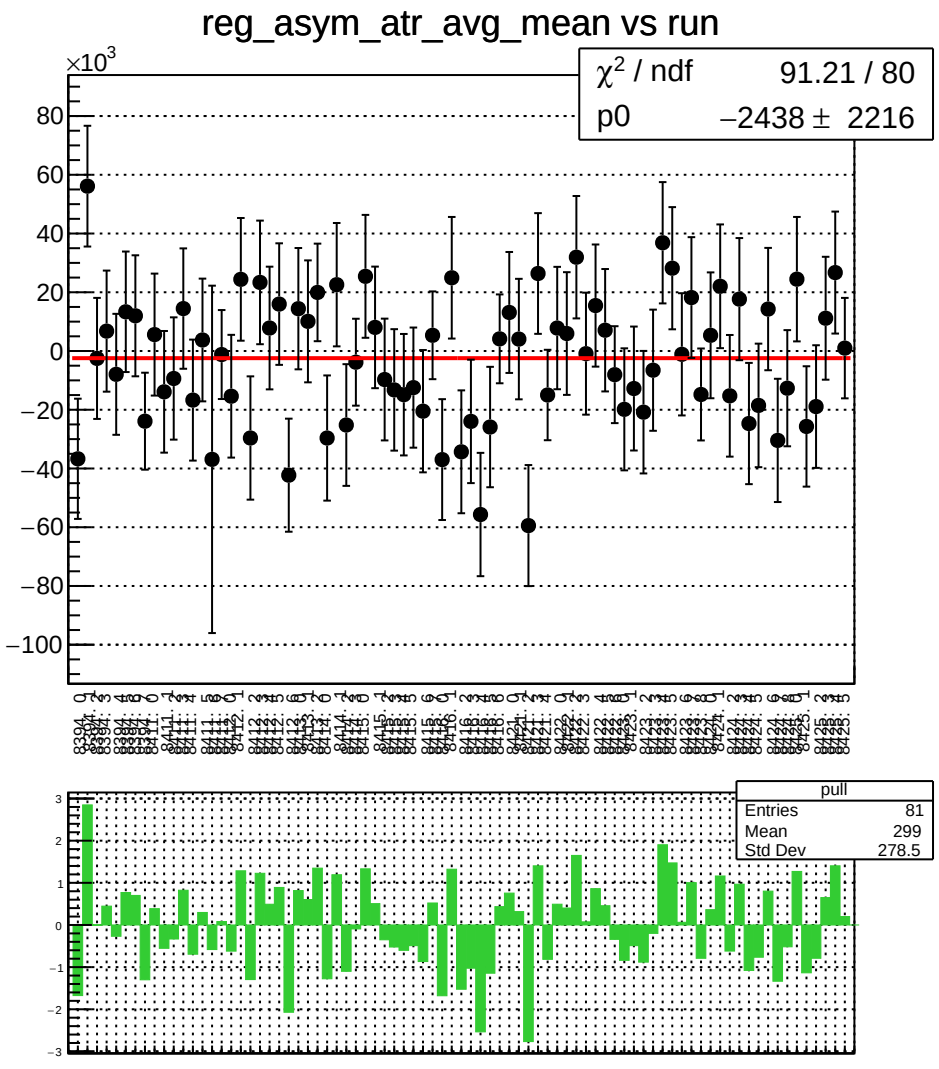

pull1D
Entries 81
Mean 0.008517
Std Dev 0.9434

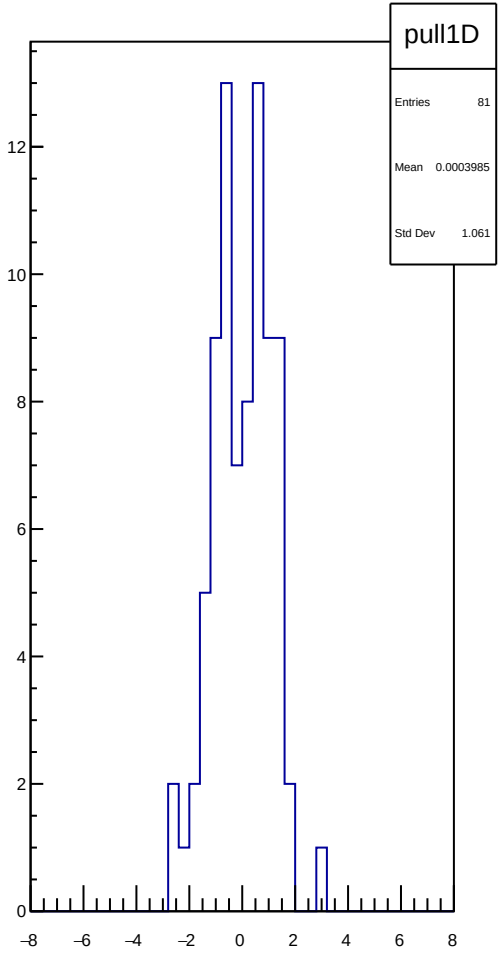

asym_atl_dd_correction_rms vs run
χ² / ndf 1.526e+04 / 80
p0 4641 ± 3.693
5500
5000
4500
4000
3500

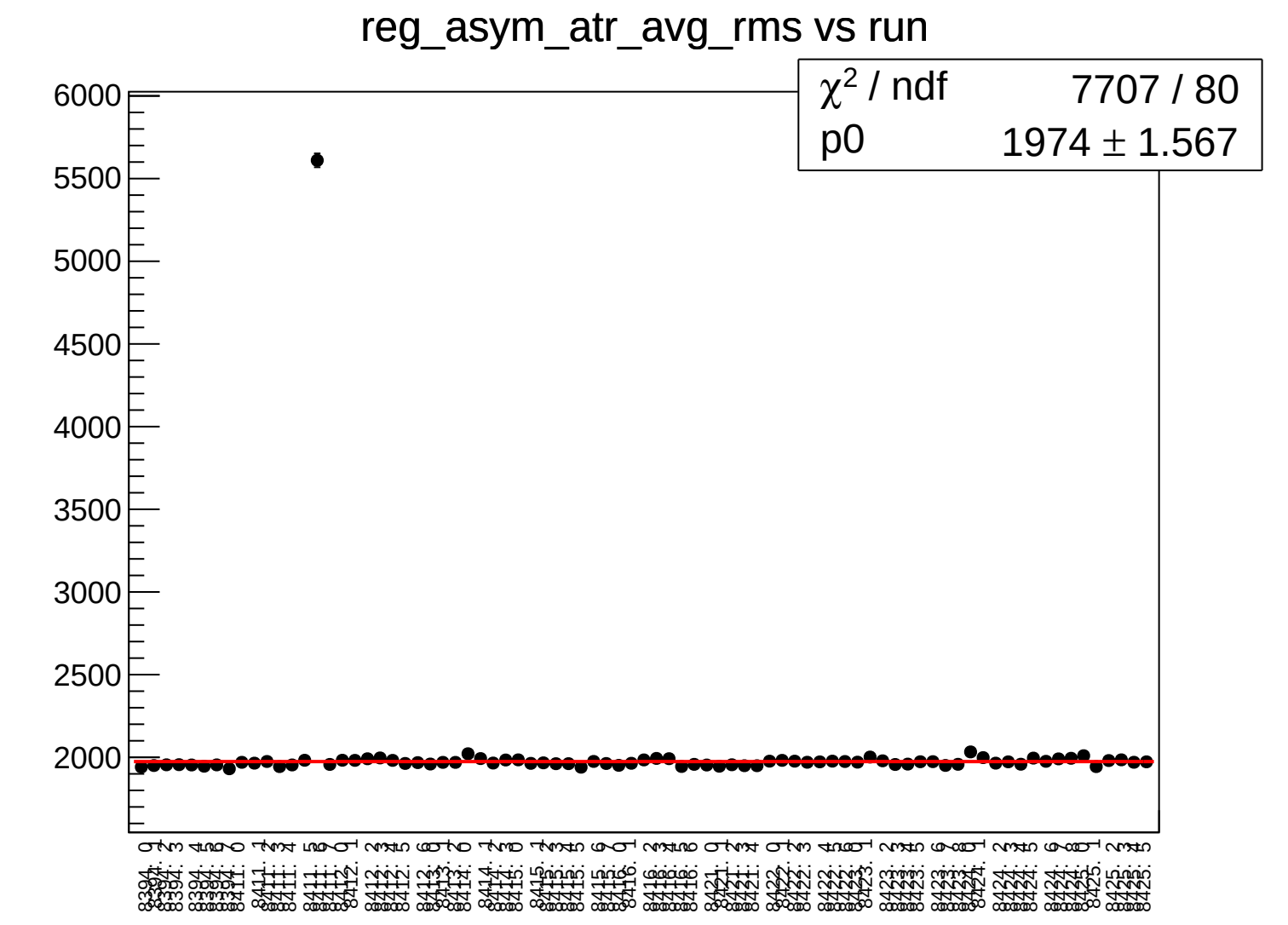

asym_atl_dd_mean vs run
×10^3
χ² / ndf 61.97 / 80
p0 −657 ± 5553
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean 60.51
Std Dev 28.46
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

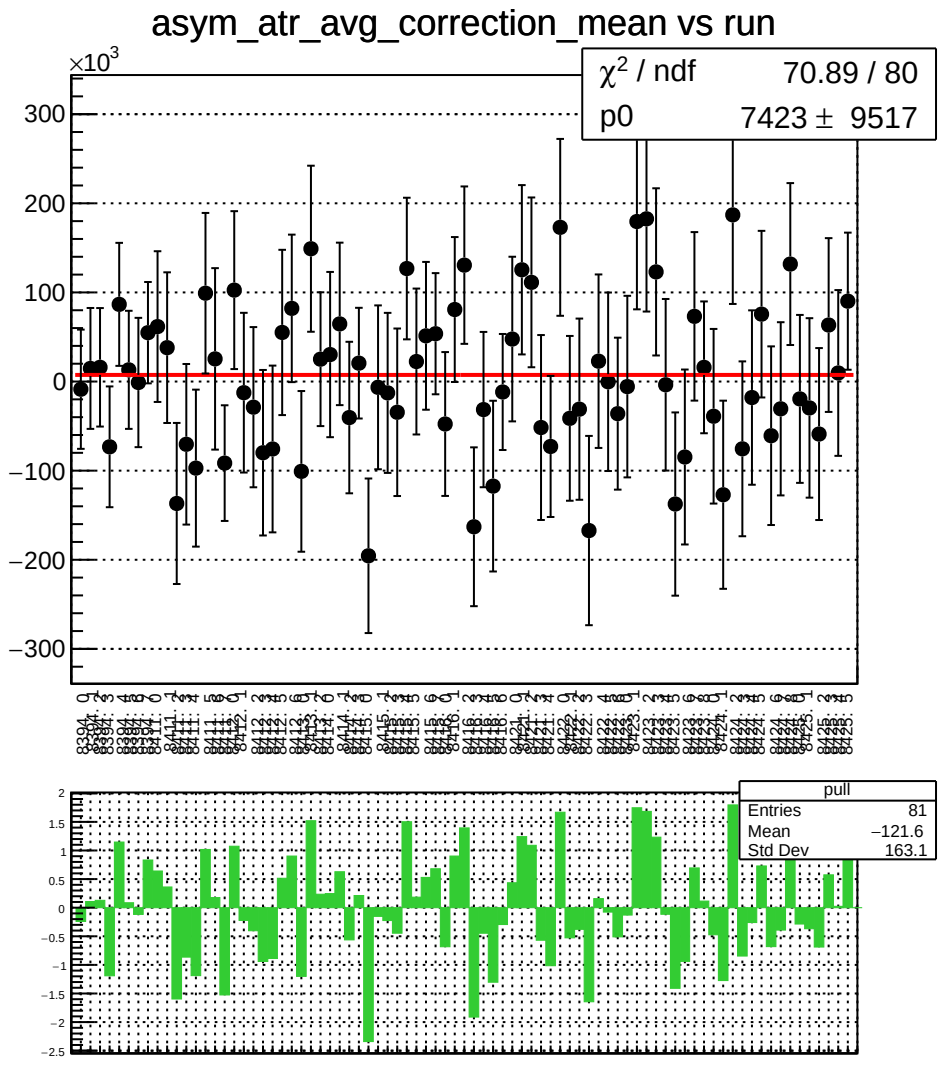

pull1D
Entries 81
Mean −0.0186
Std Dev 0.8745
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

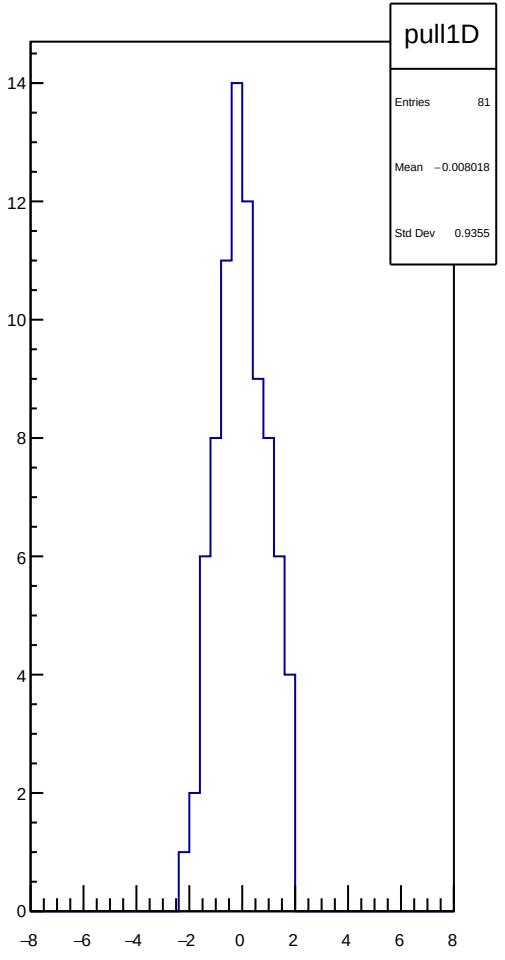

asym_atl_dd_rms vs run
χ^2 / ndf 1.356e+04 / 80
p0 4937 ± 3.927
7500
7000
6500
6000
5500
5000
4500
4000

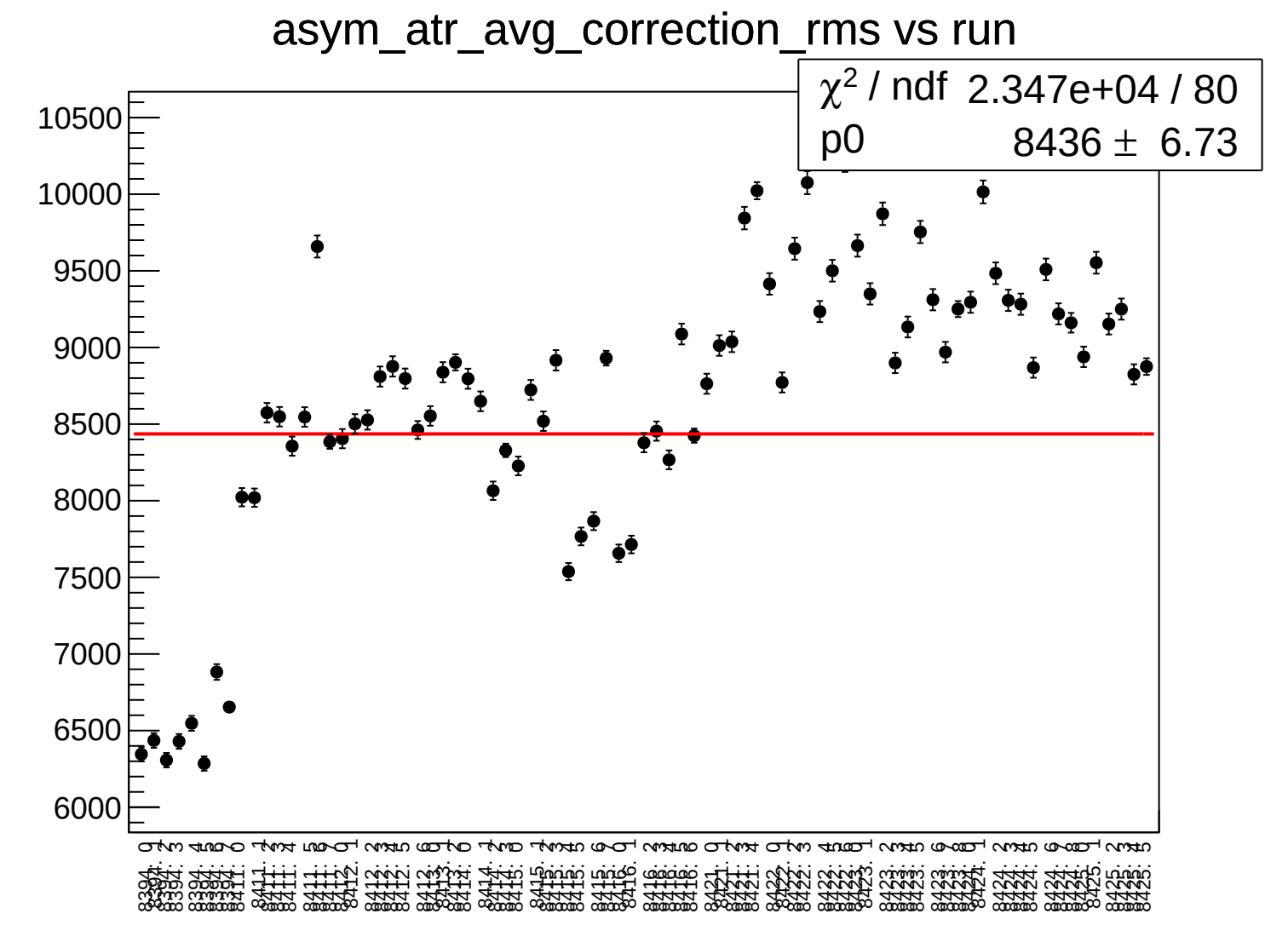

reg_asym_atr_avg_mean vs run
×10^3
χ² / ndf 91.21 / 80
p0 −2438 ± 2216
pull
Entries 81
Mean 299
Std Dev 278.5

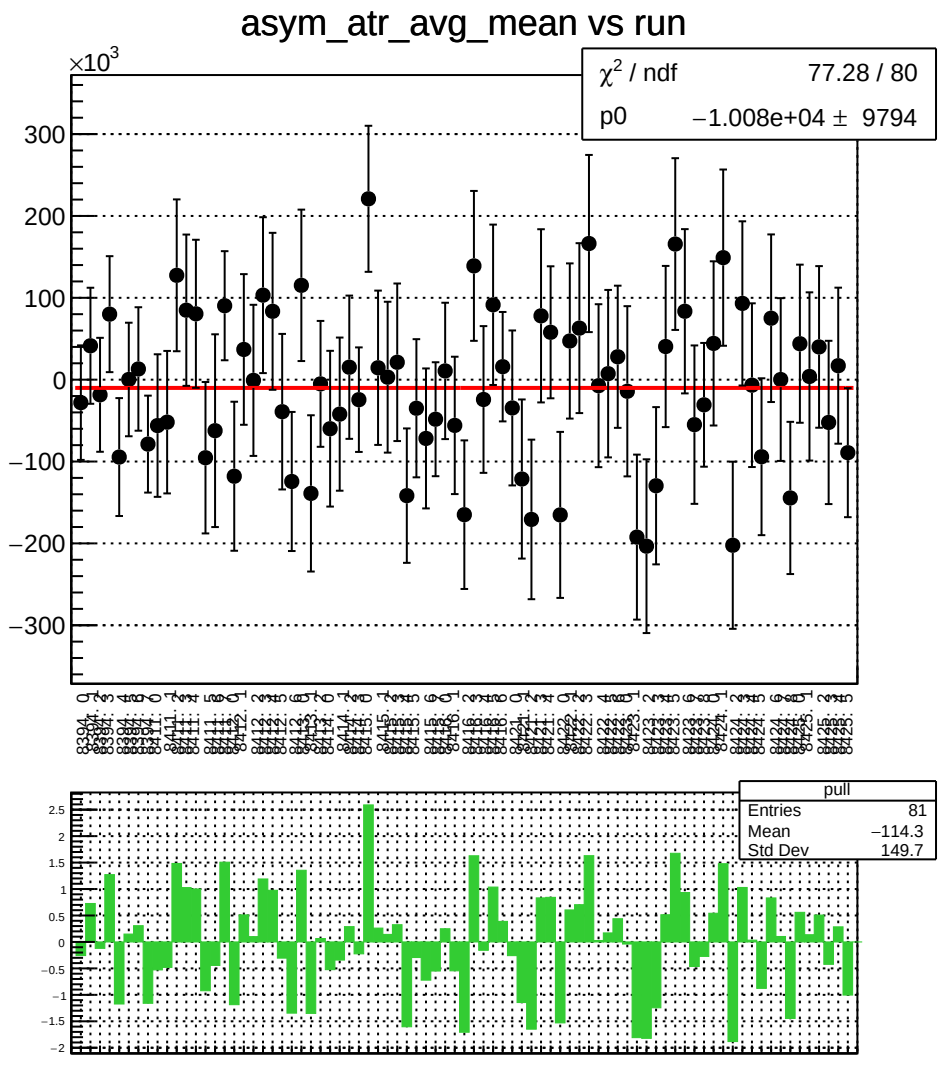

pull1D
Entries 81
Mean 0.0003985
Std Dev 1.061

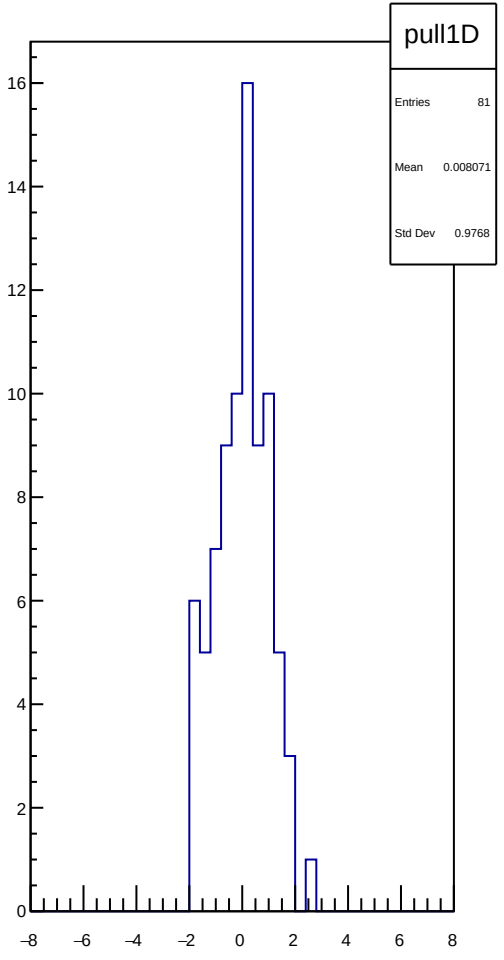

reg_asym_atr_avg_rms vs run
χ^2 / ndf 7707 / 80
p0 1974 ± 1.567
6000
5500
5000
4500
4000
3500
3000
2500
2000

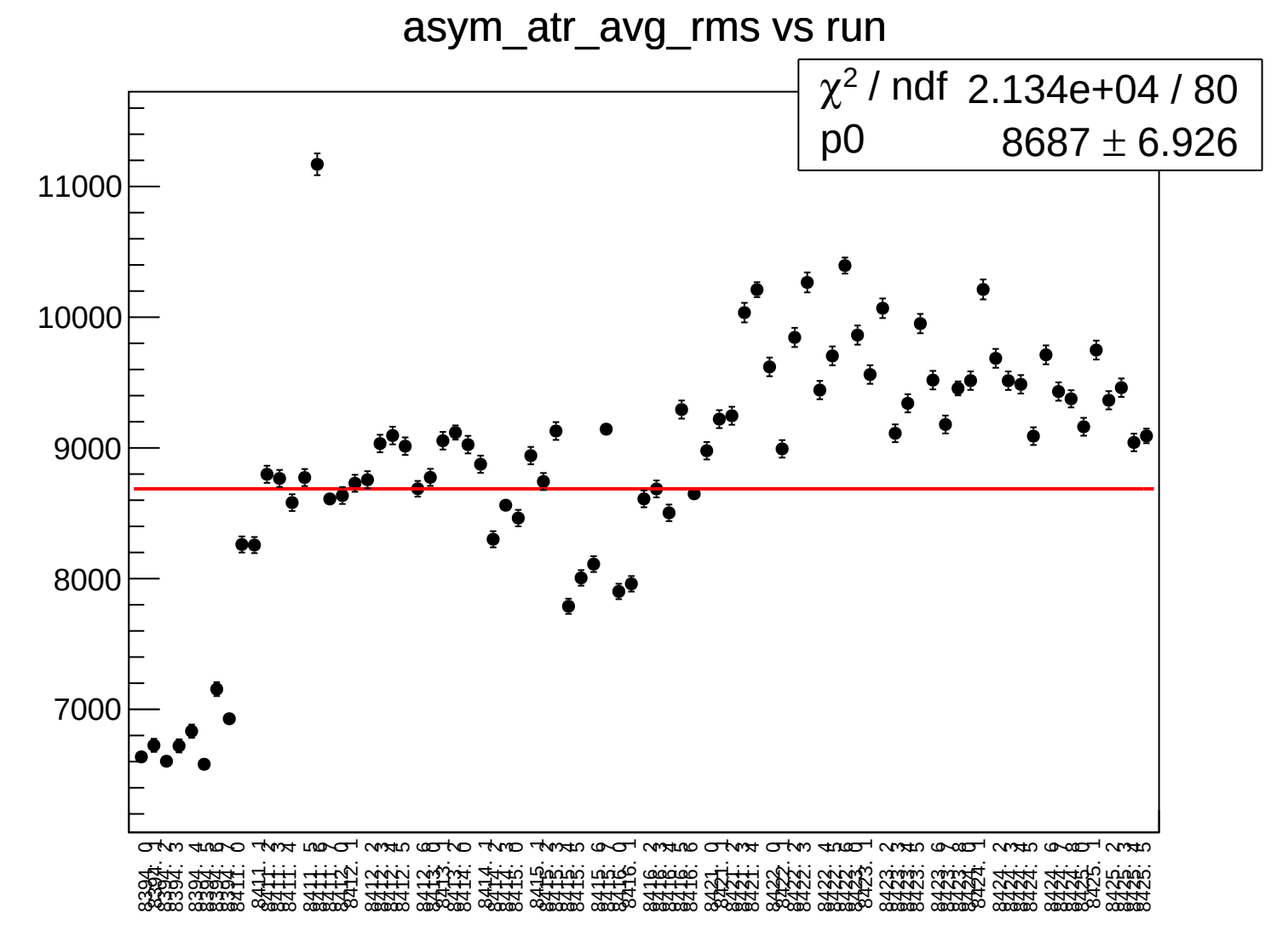

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 70.89 / 80
p0 7423 ± 9517
pull
Entries 81
Mean −121.6
Std Dev 163.1

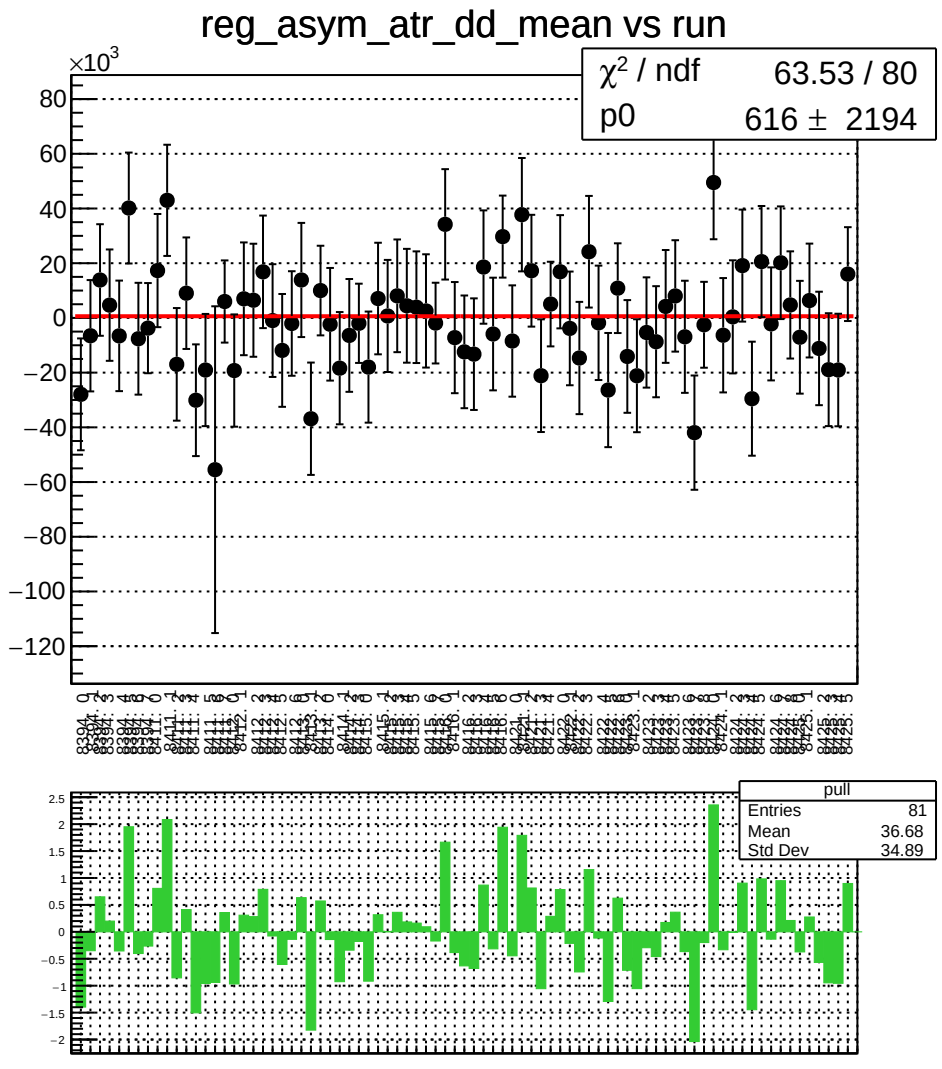

pull1D
Entries 81
Mean −0.008018
Std Dev 0.9355

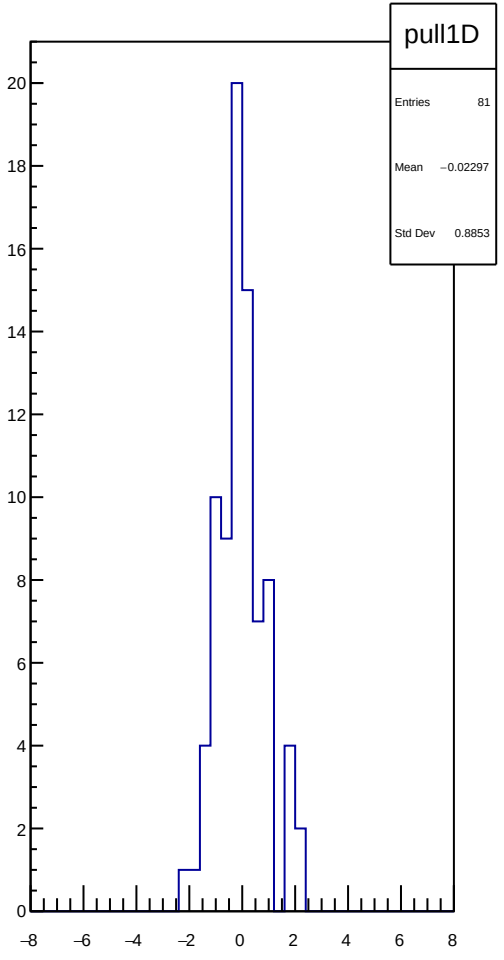

asym_atr_avg_correction_rms vs run
χ² / ndf 2.347e+04 / 80
p0 8436 ± 6.73
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

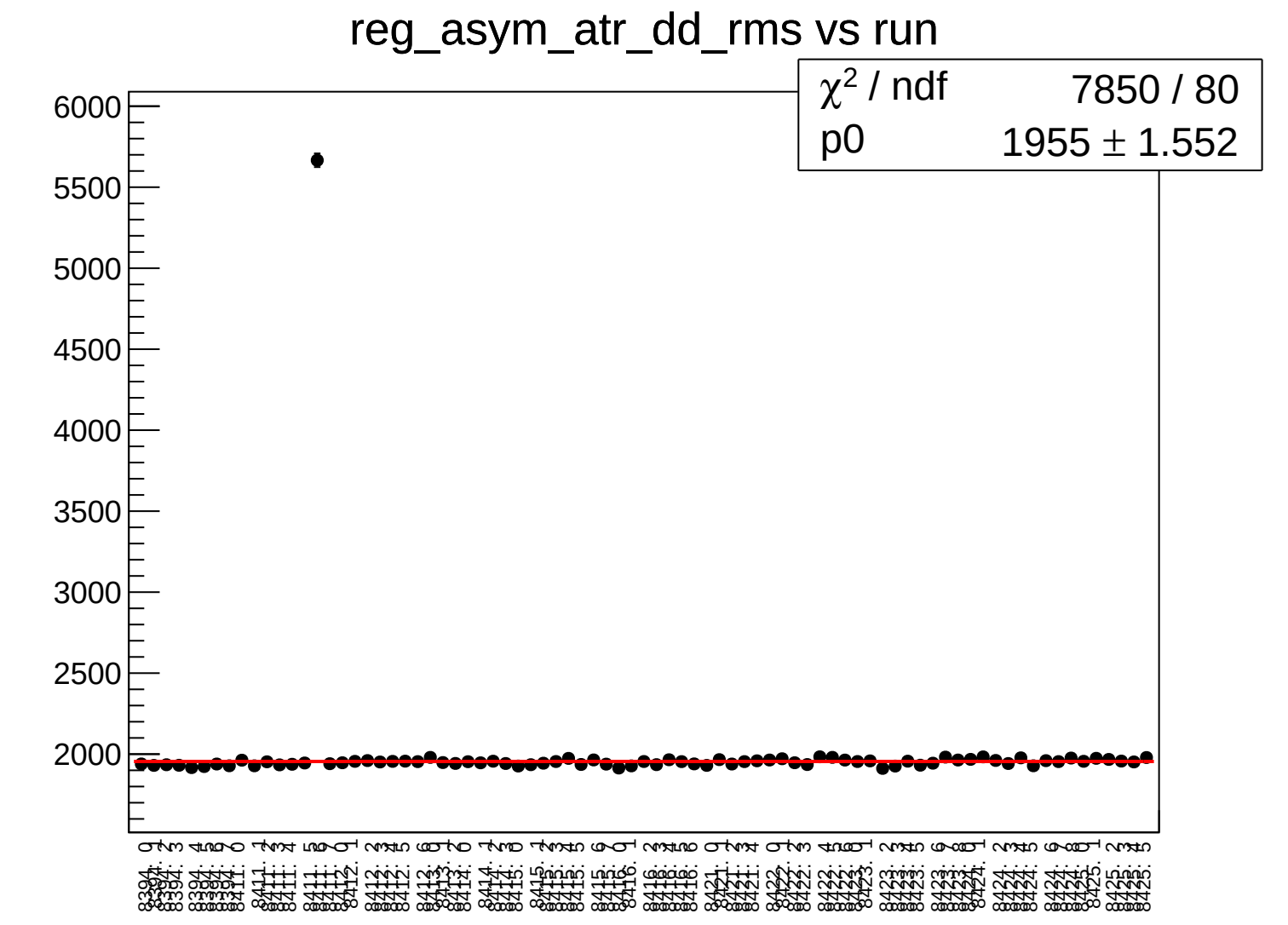

asym_atr_avg_mean vs run
×10^3
χ² / ndf 77.28 / 80
p0 −1.008e+04 ± 9794
300
200
100
0
−100
−200
−300
pull
Entries 81
Mean −114.3
Std Dev 149.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

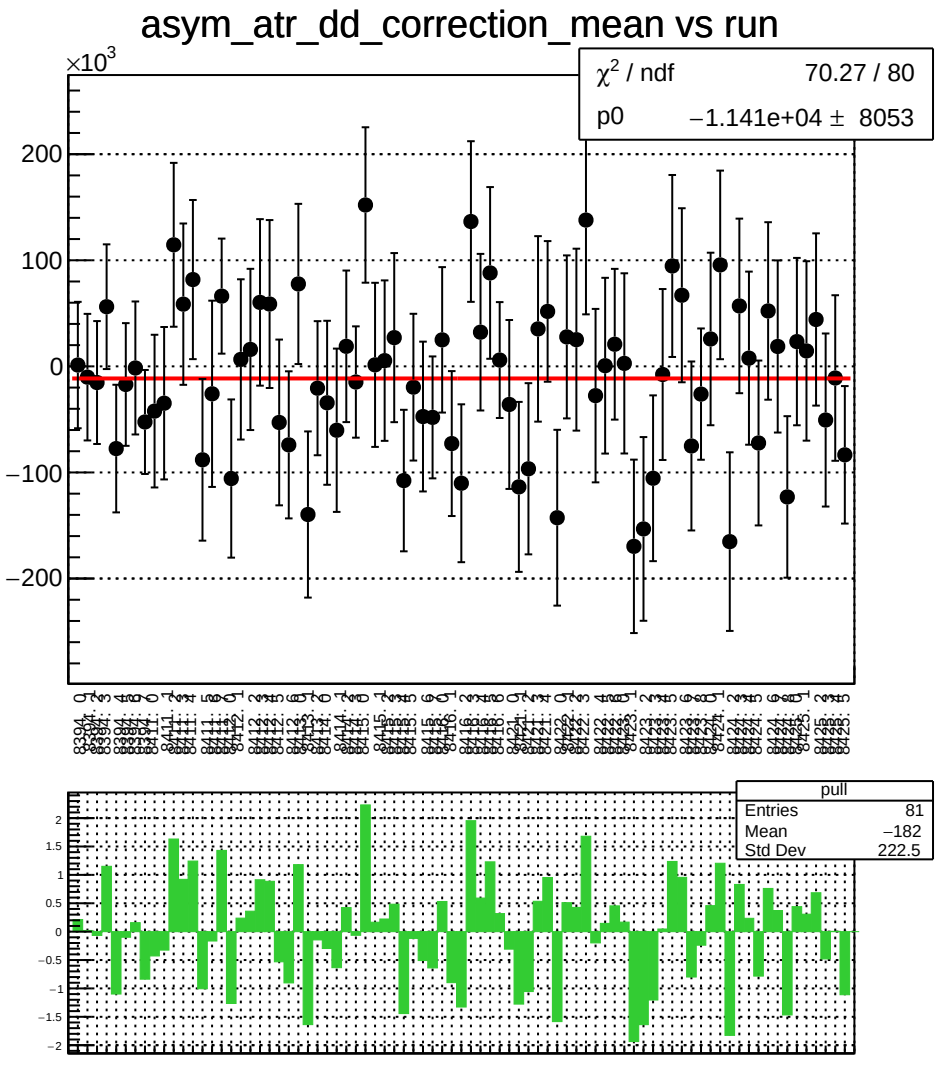

pull1D
Entries 81
Mean 0.008071
Std Dev 0.9768
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

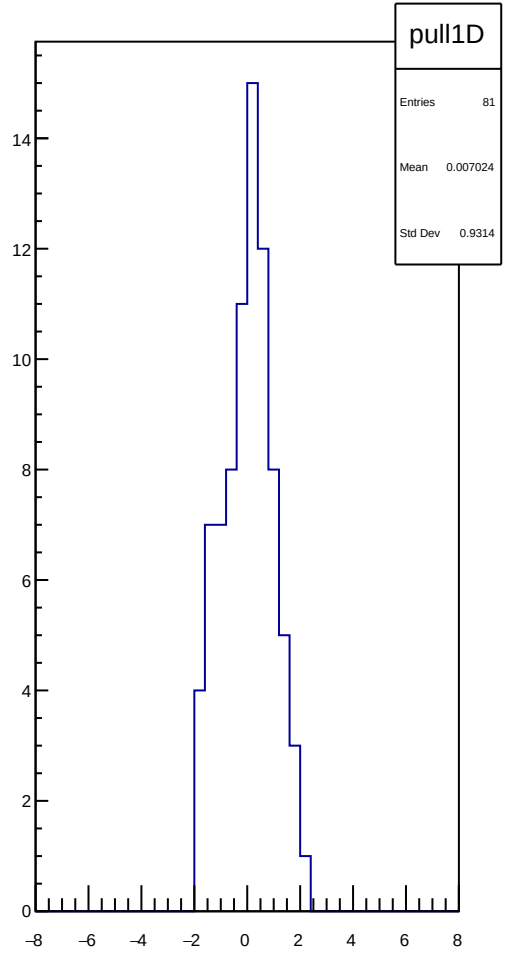

asym_atr_avg_rms vs run
χ^2 / ndf 2.134e+04 / 80
p0 8687 ± 6.926
11000
10000
9000
8000
7000

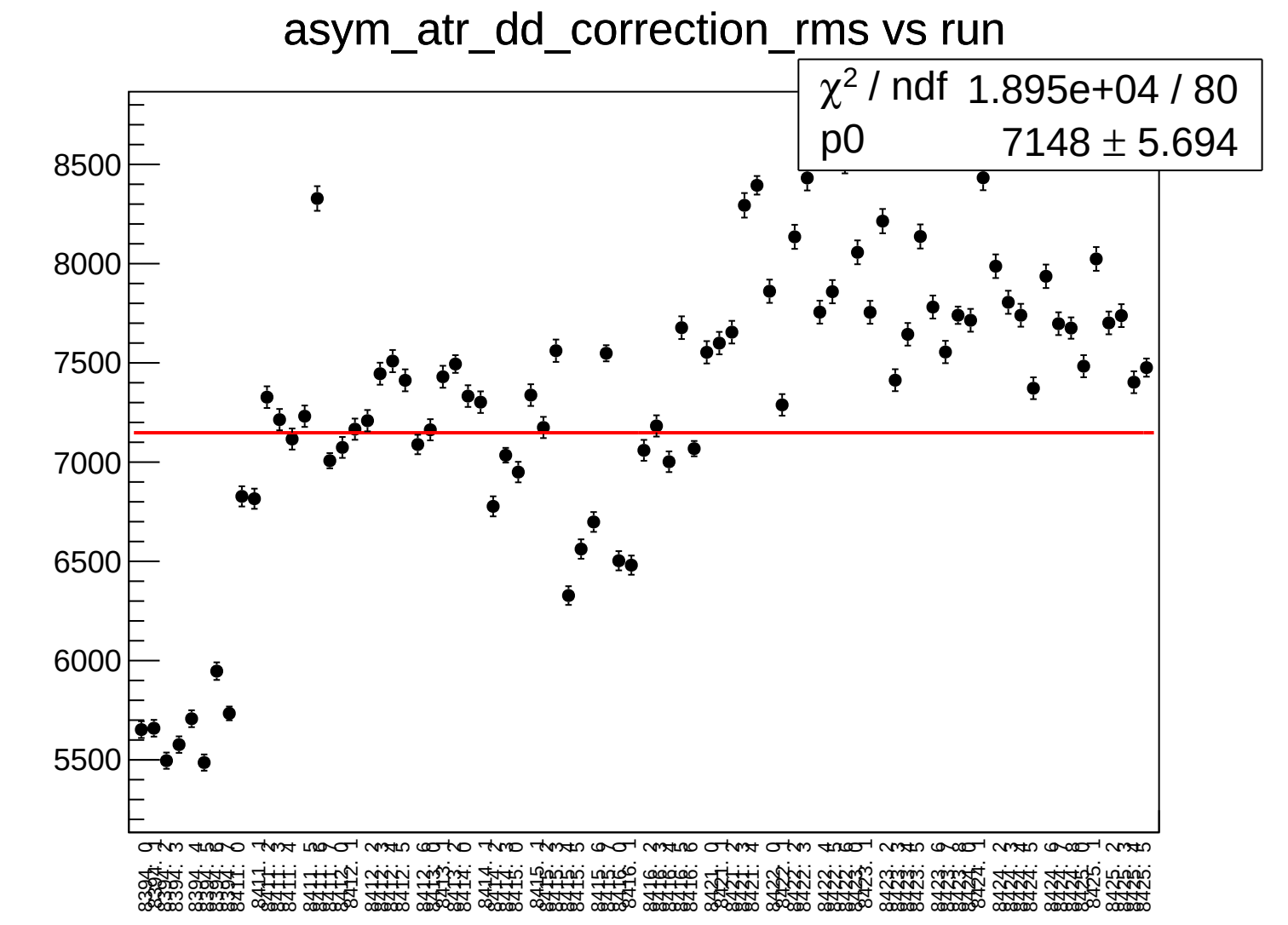

reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 63.53 / 80
p0 616 ± 2194
pull
Entries 81
Mean 36.68
Std Dev 34.89

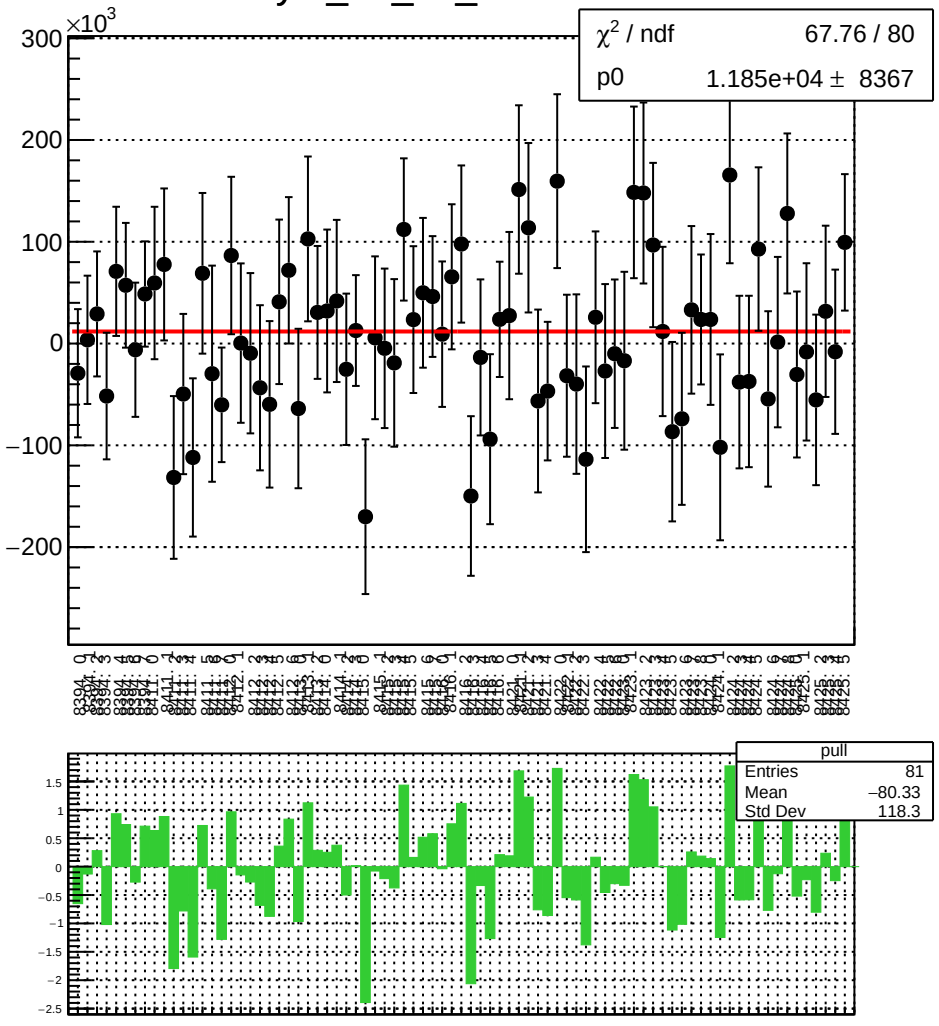

pull1D
Entries 81
Mean −0.02297
Std Dev 0.8853

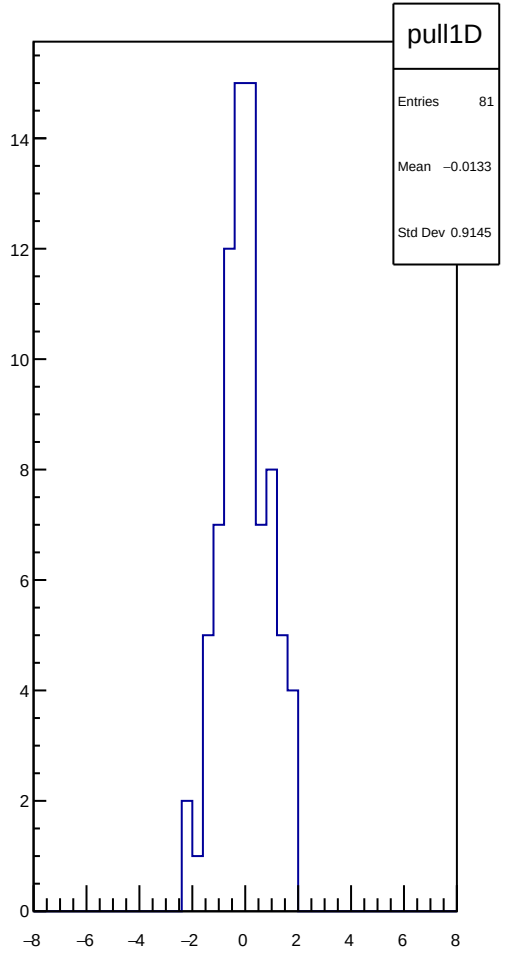

reg_asym_atr_dd_rms vs run
χ^2 / ndf 7850 / 80
p0 1955 ± 1.552
6000
5500
5000
4500
4000
3500
3000
2500
2000

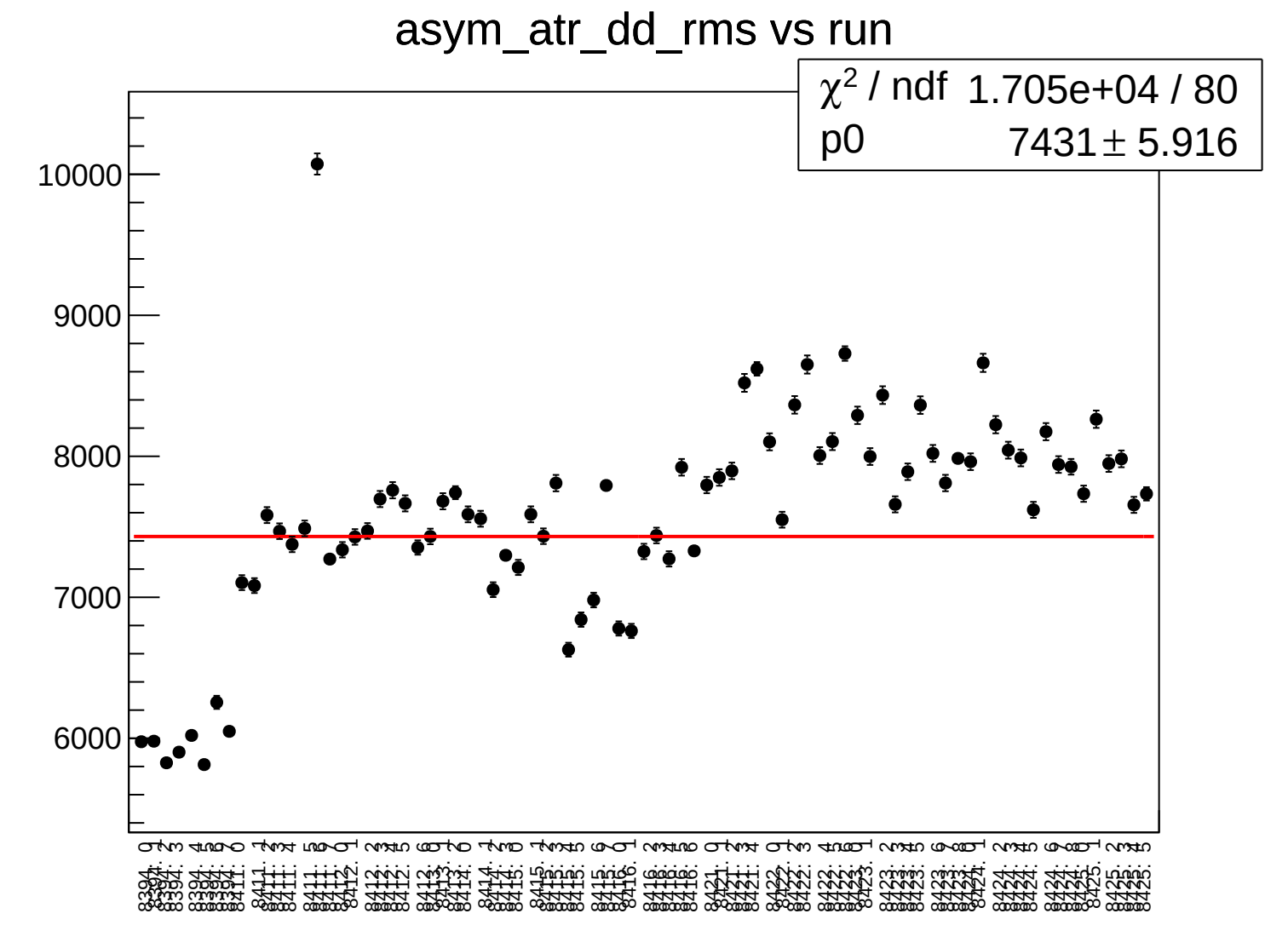

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 70.27 / 80
p0 −1.141e+04 ± 8053
200
100
0
−100
−200
pull
Entries 81
Mean −182
Std Dev 222.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

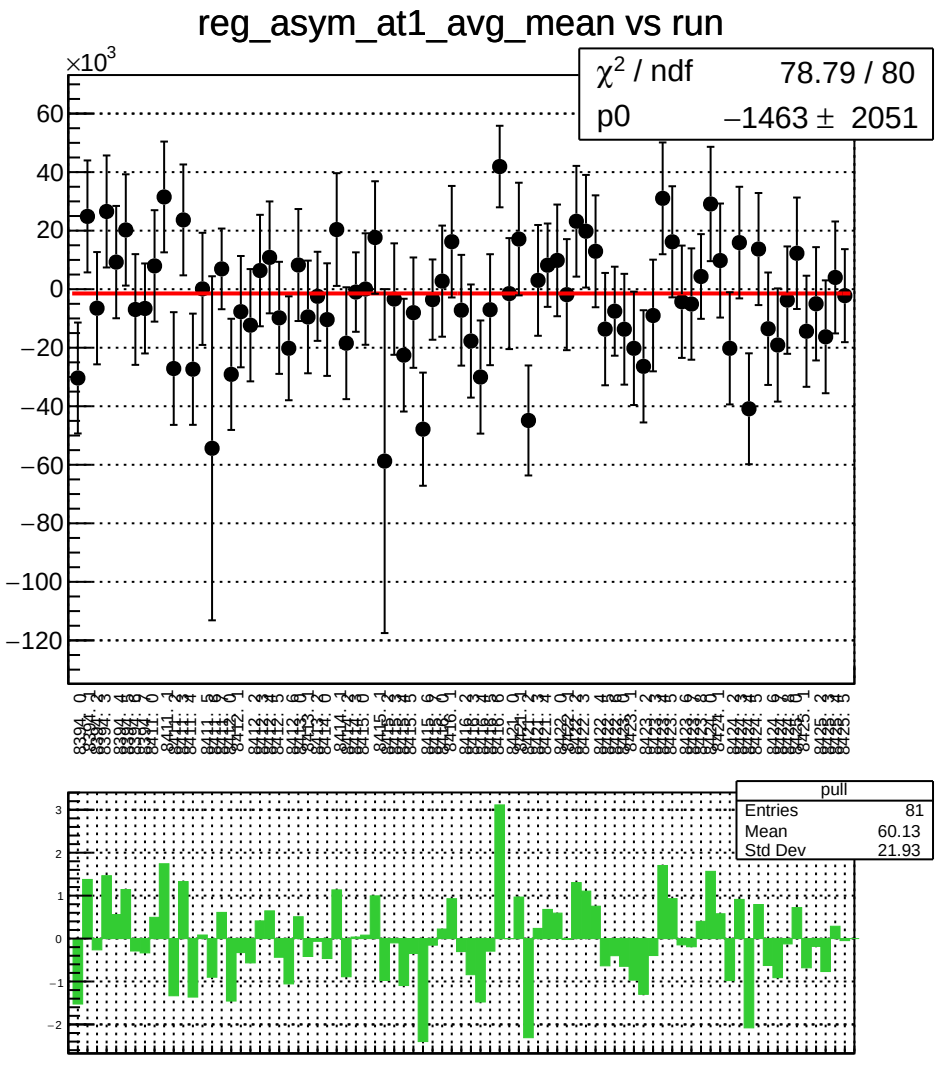

pull1D
Entries 81
Mean 0.007024
Std Dev 0.9314
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

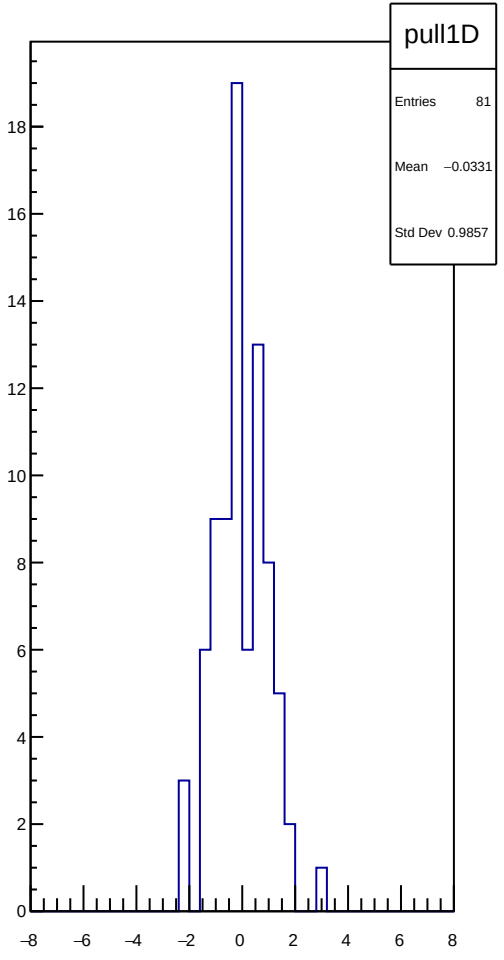

asym_atr_dd_correction_rms vs run
χ² / ndf 1.895e+04 / 80
p0 7148 ± 5.694
8500
8000
7500
7000
6500
6000
5500

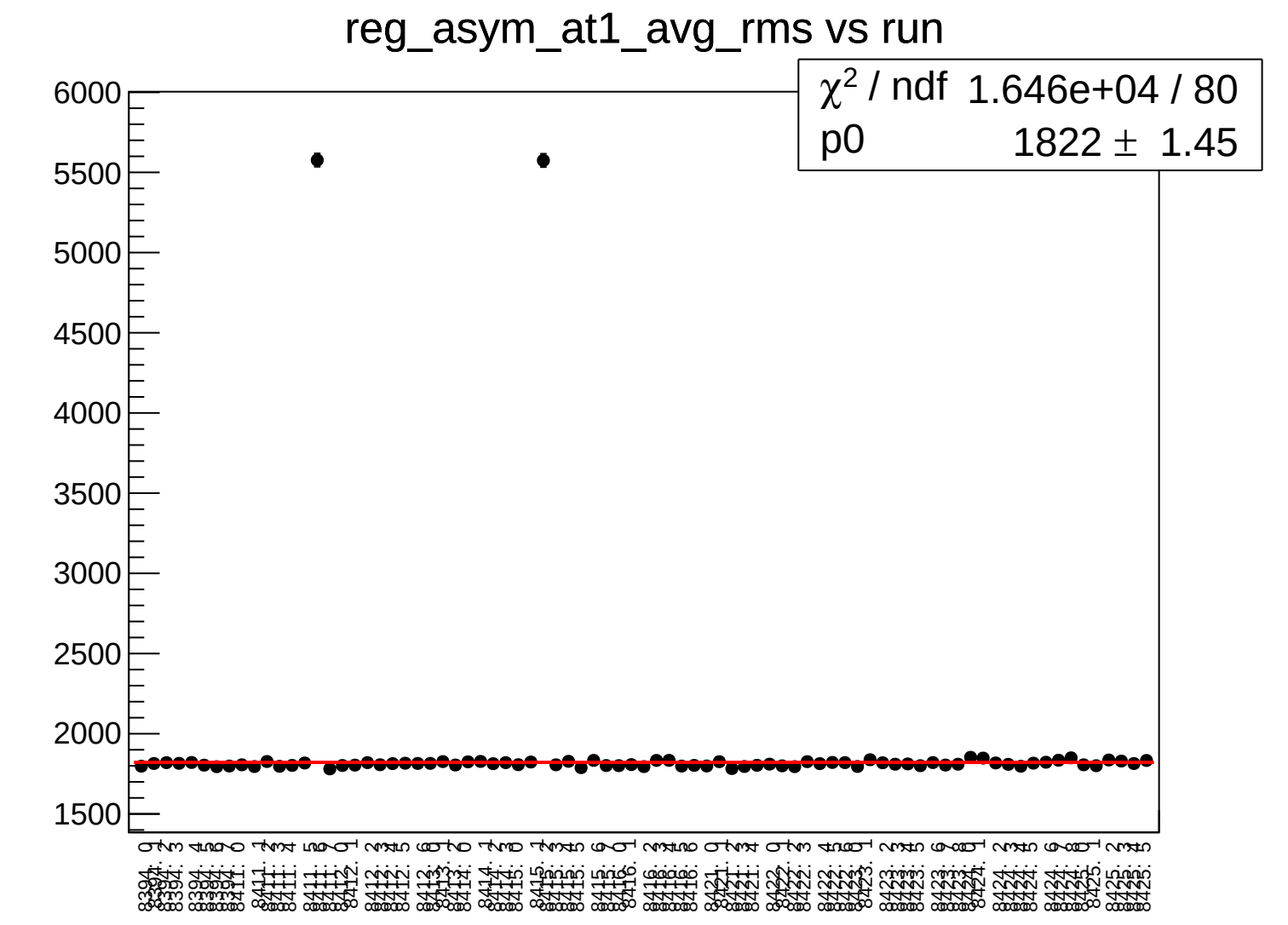

asym_atr_dd_mean vs run
×10^3
χ² / ndf 67.76 / 80
p0 1.185e+04 ± 8367
pull
Entries 81
Mean −80.33
Std Dev 118.3

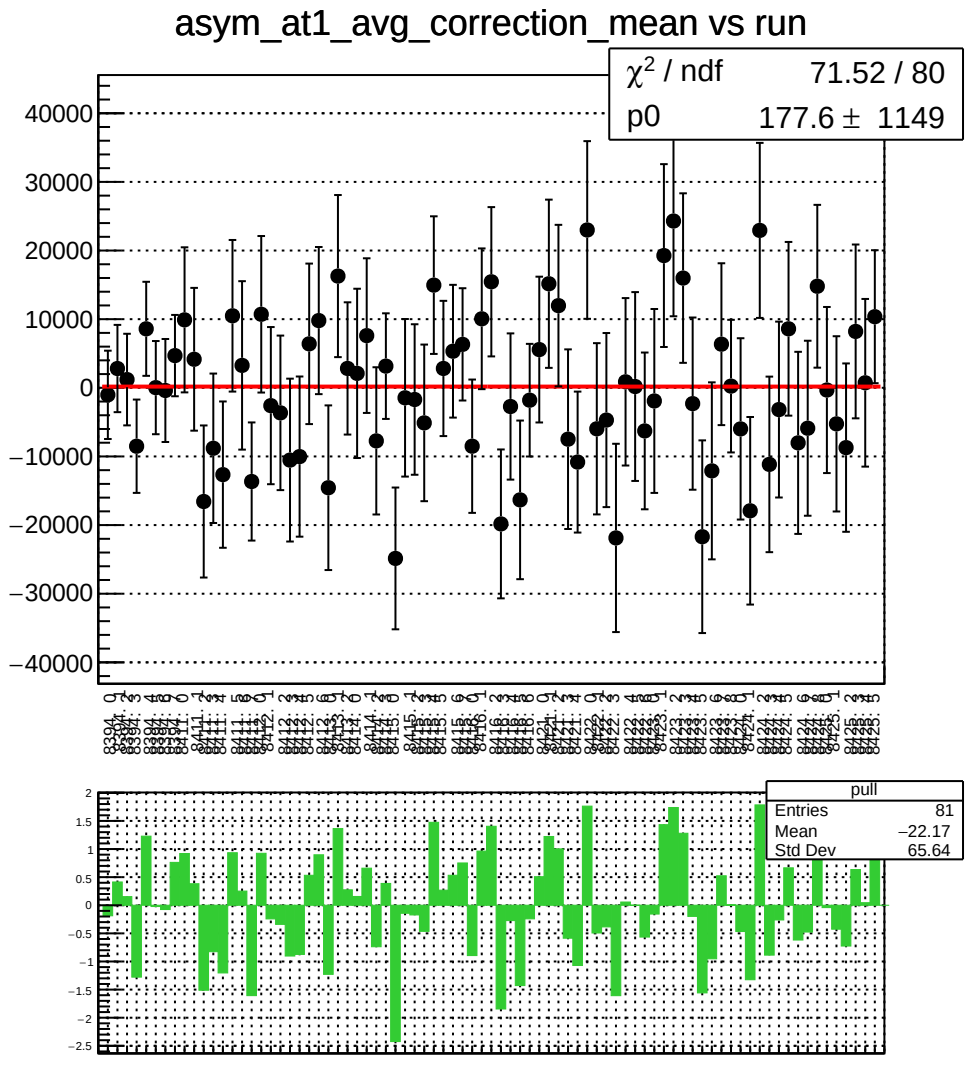

pull1D
Entries 81
Mean −0.0133
Std Dev 0.9145

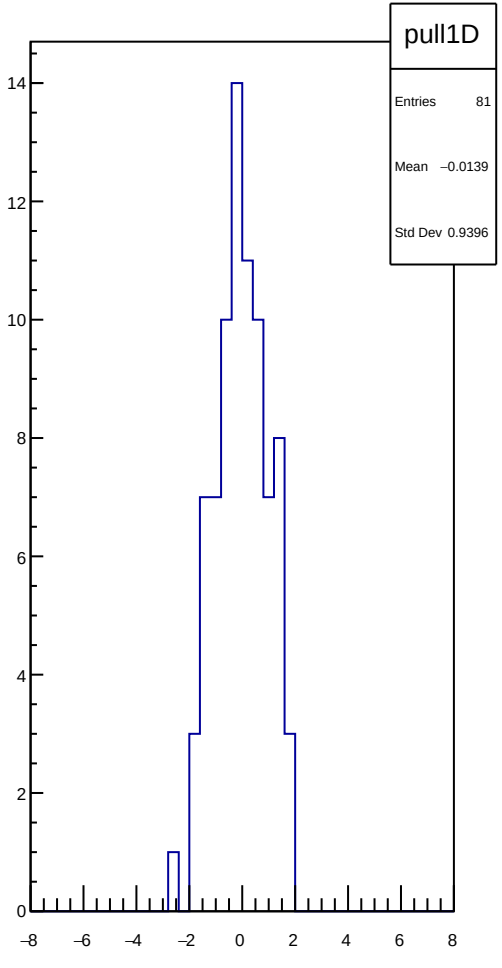

asym_atr_dd_rms vs run
χ^2 / ndf 1.705e+04 / 80
p0 7431 ± 5.916
10000
9000
8000
7000
6000

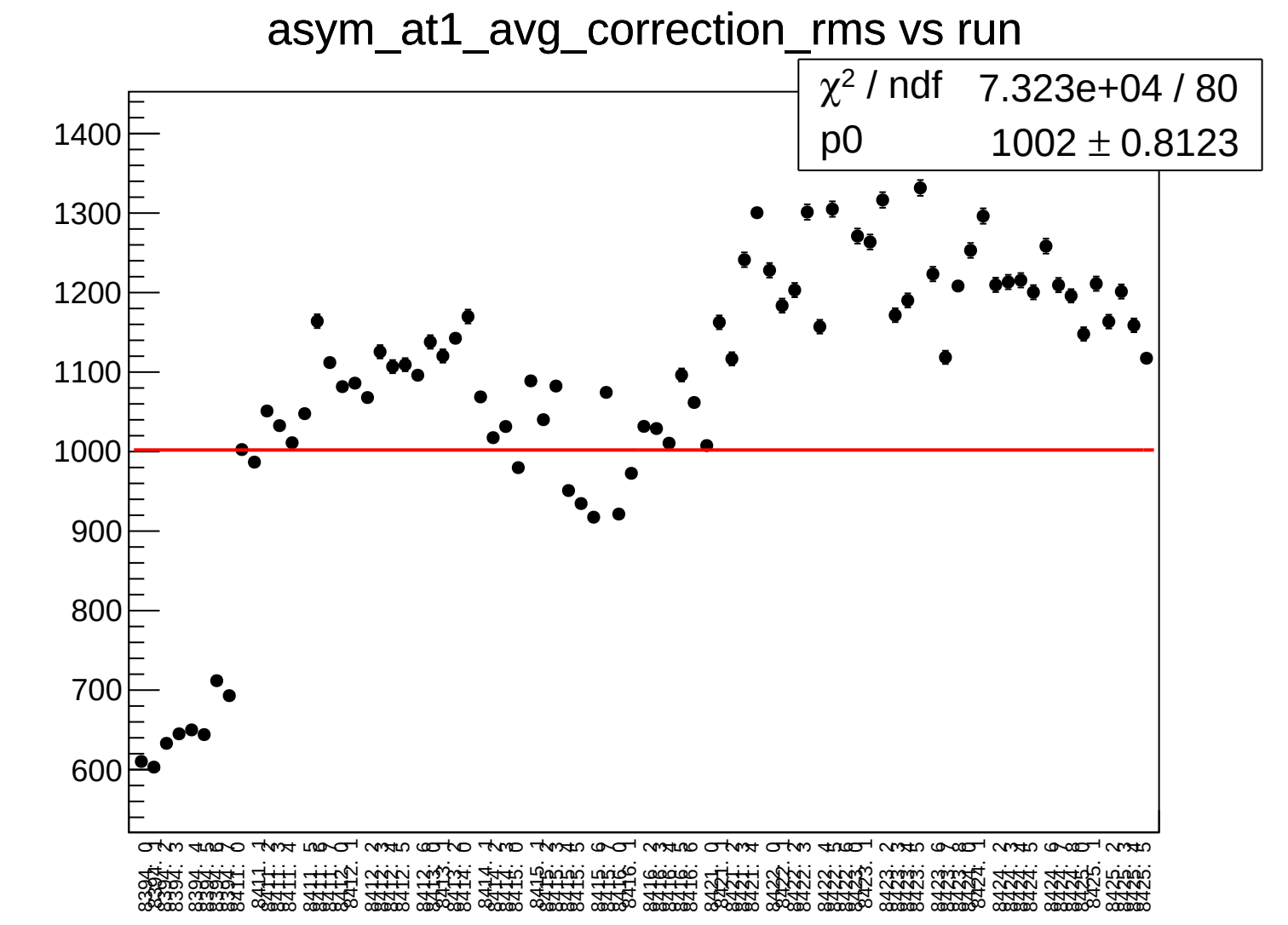

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 78.79 / 80
p0 −1463 ± 2051
pull
Entries 81
Mean 60.13
Std Dev 21.93

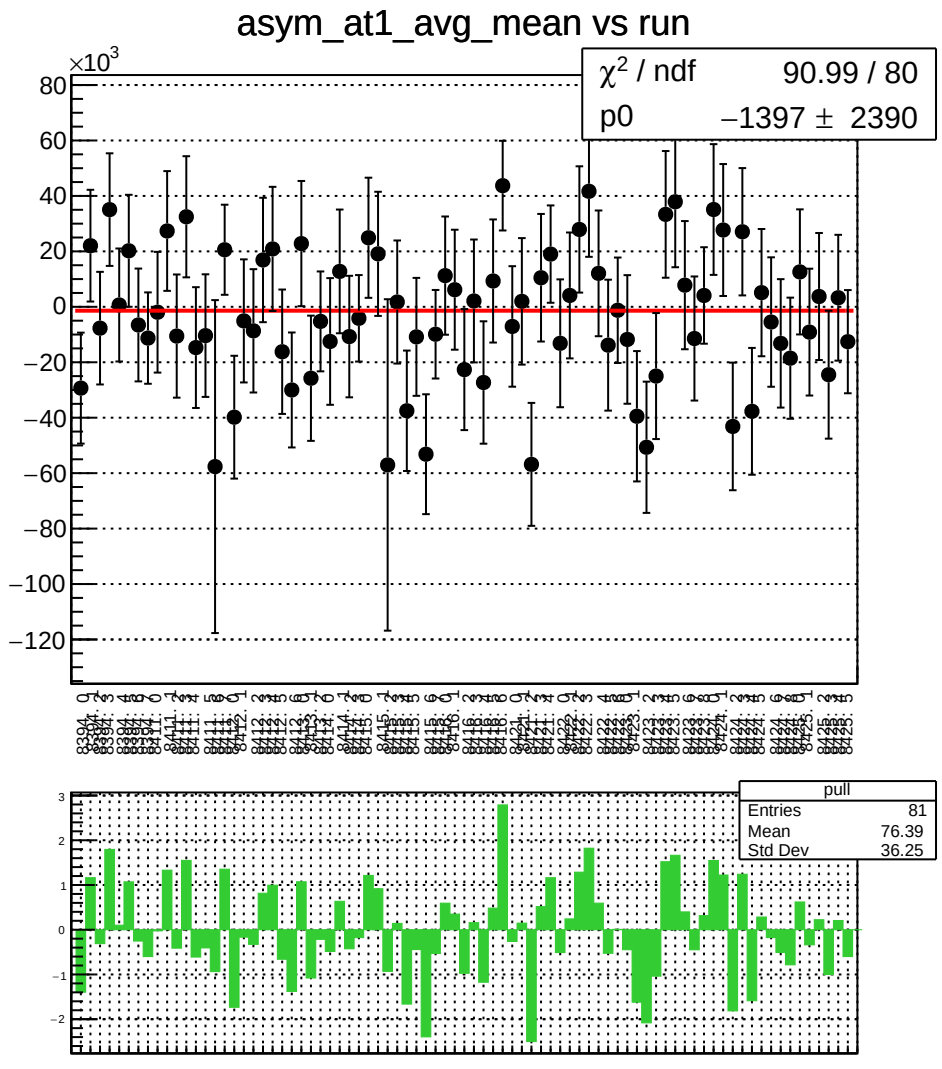

pull1D
Entries 81
Mean −0.0331
Std Dev 0.9857

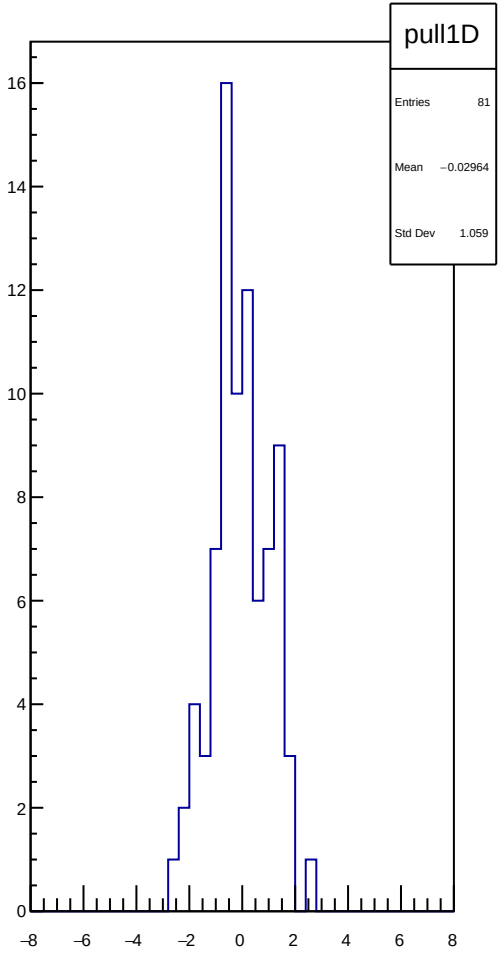

reg_asym_at1_avg_rms vs run
χ² / ndf 1.646e+04 / 80
p0 1822 ± 1.45
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

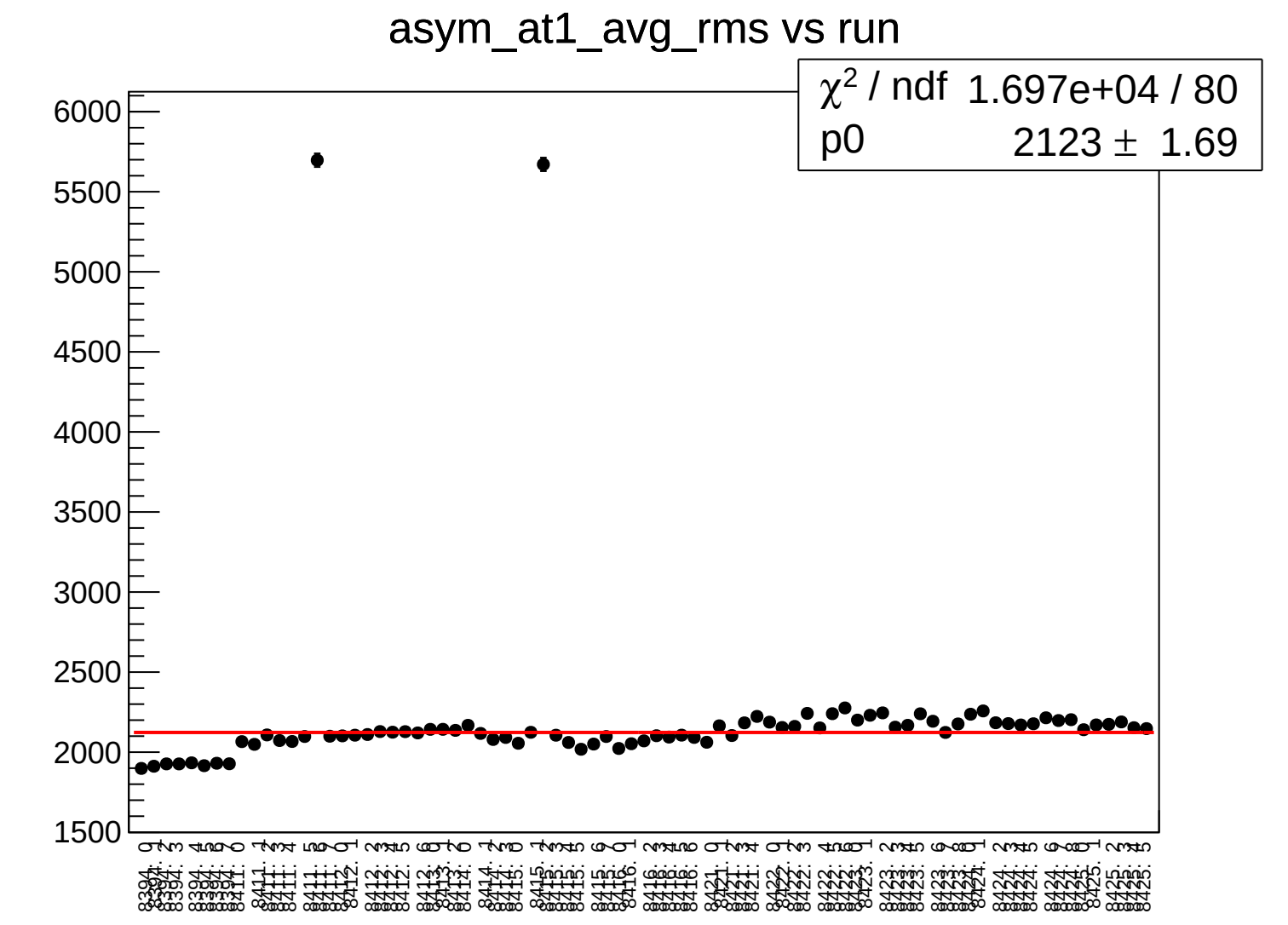

asym_at1_avg_correction_mean vs run
χ² / ndf 71.52 / 80
p0 177.6 ± 1149
pull
Entries 81
Mean −22.17
Std Dev 65.64

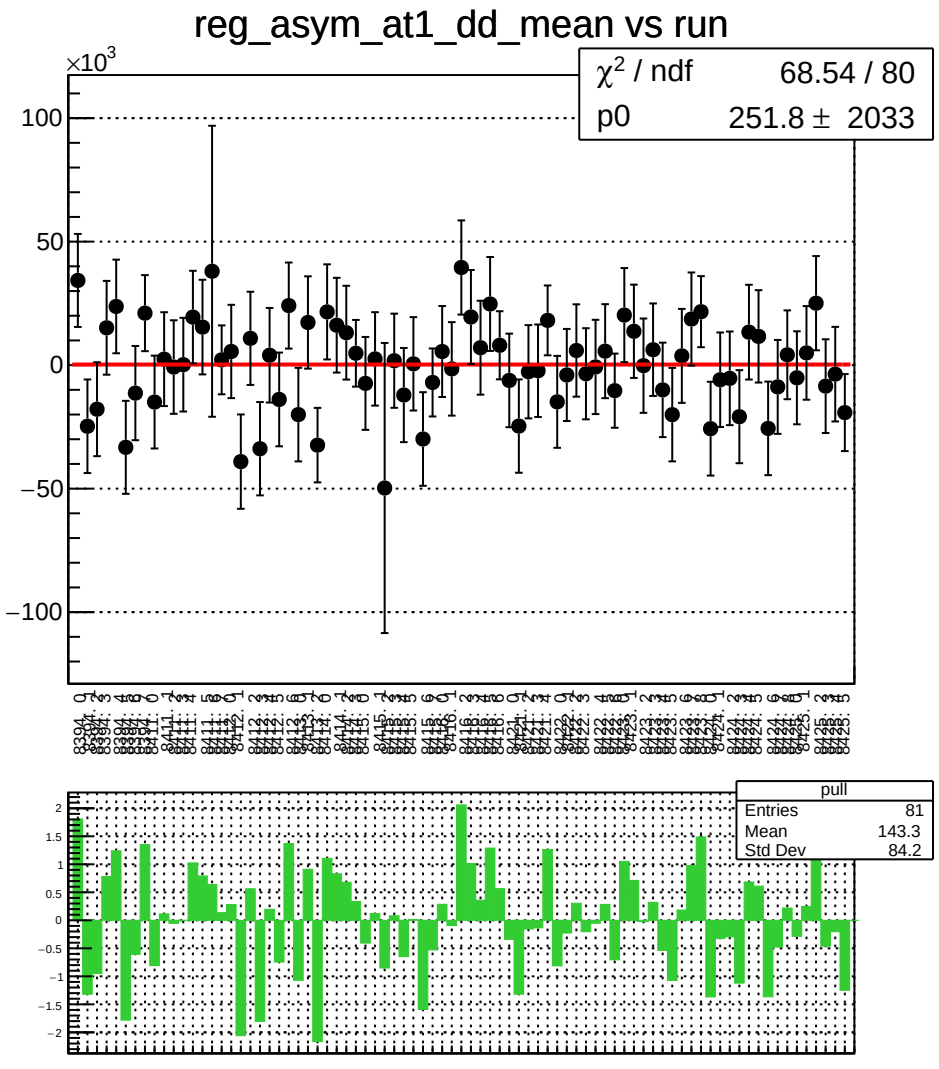

pull1D
Entries 81
Mean −0.0139
Std Dev 0.9396

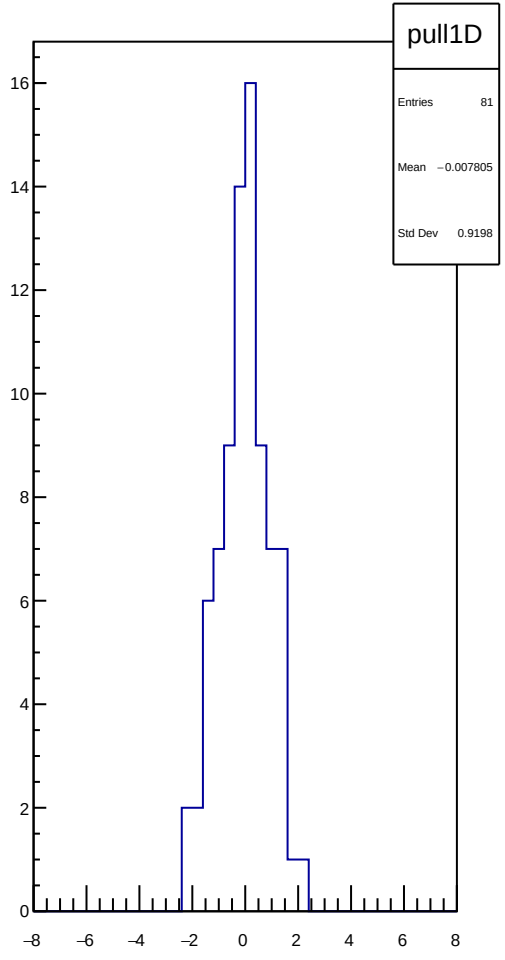

asym_at1_avg_correction_rms vs run
χ² / ndf 7.323e+04 / 80
p0 1002 ± 0.8123
1400
1300
1200
1100
1000
900
800
700
600

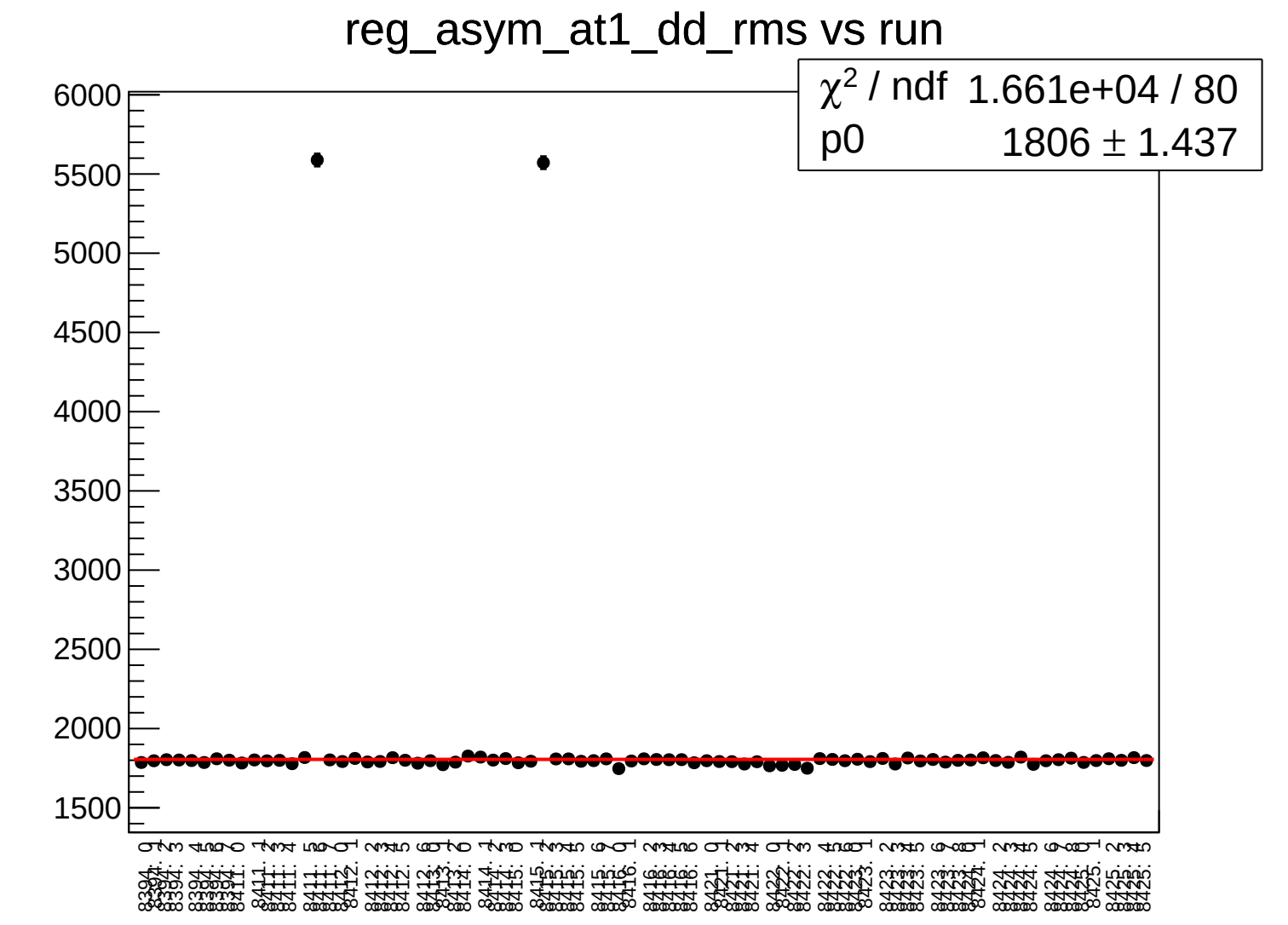

asym_at1_avg_mean vs run
×10^3
χ² / ndf 90.99 / 80
p0 −1397 ± 2390
pull
Entries 81
Mean 76.39
Std Dev 36.25

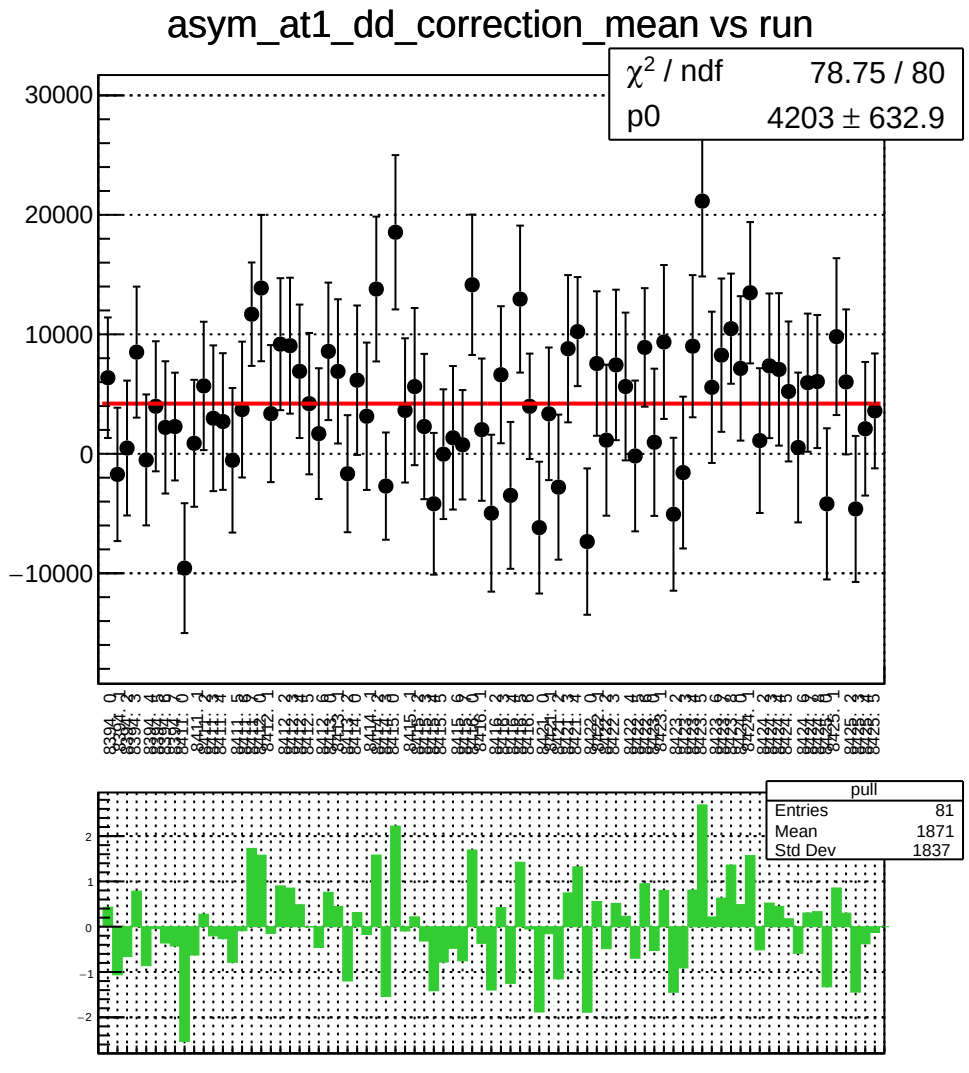

pull1D
Entries 81
Mean −0.02964
Std Dev 1.059

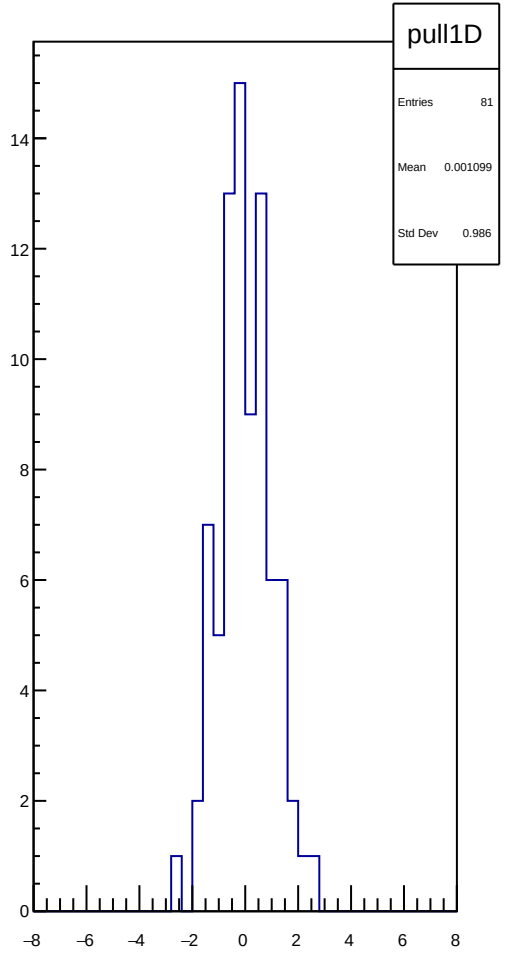

asym_at1_avg_rms vs run
χ² / ndf 1.697e+04 / 80
p0 2123 ± 1.69
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

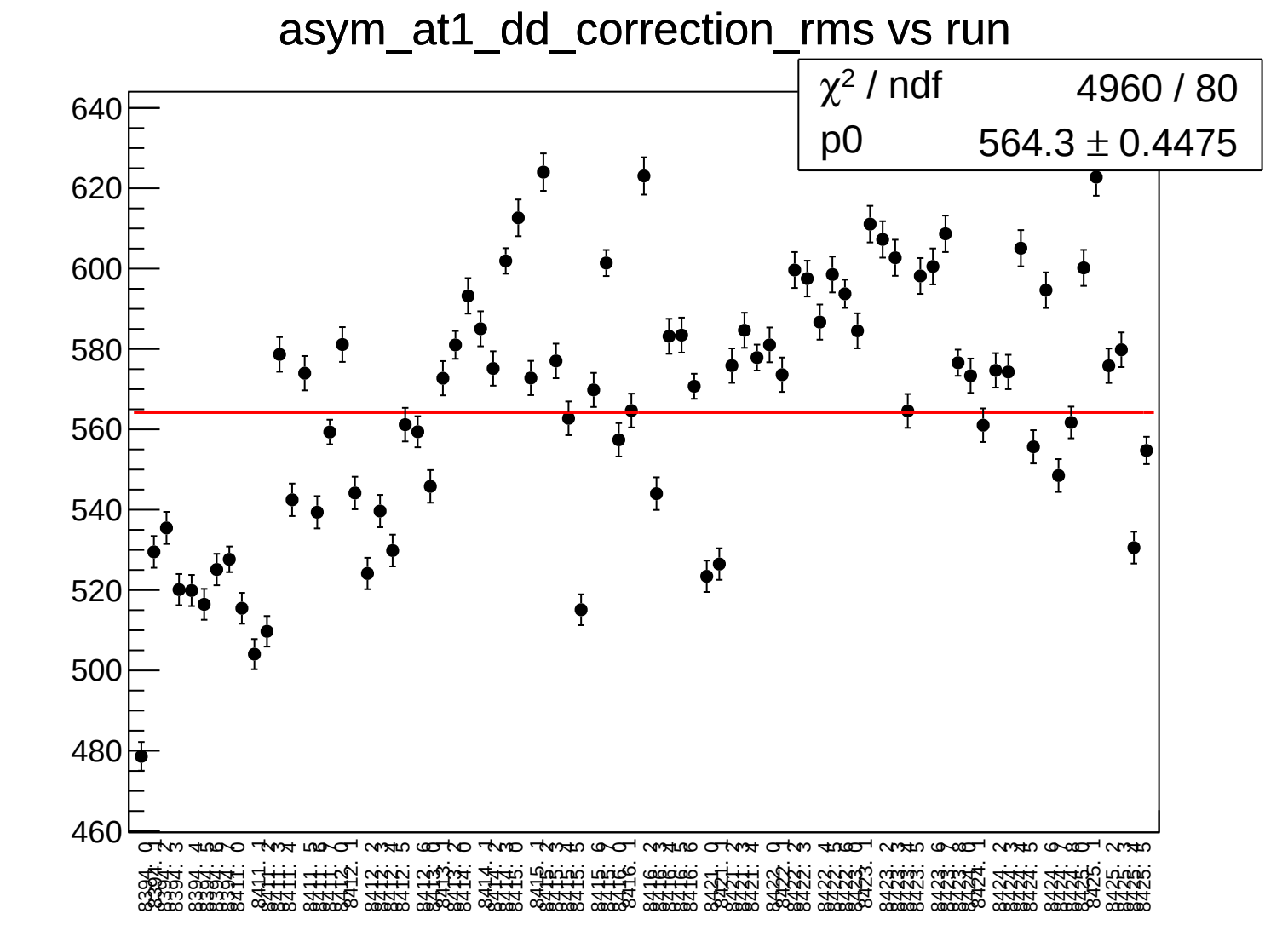

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 68.54 / 80
p0 251.8 ± 2033
100
50
0
−50
−100
pull
Entries 81
Mean 143.3
Std Dev 84.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

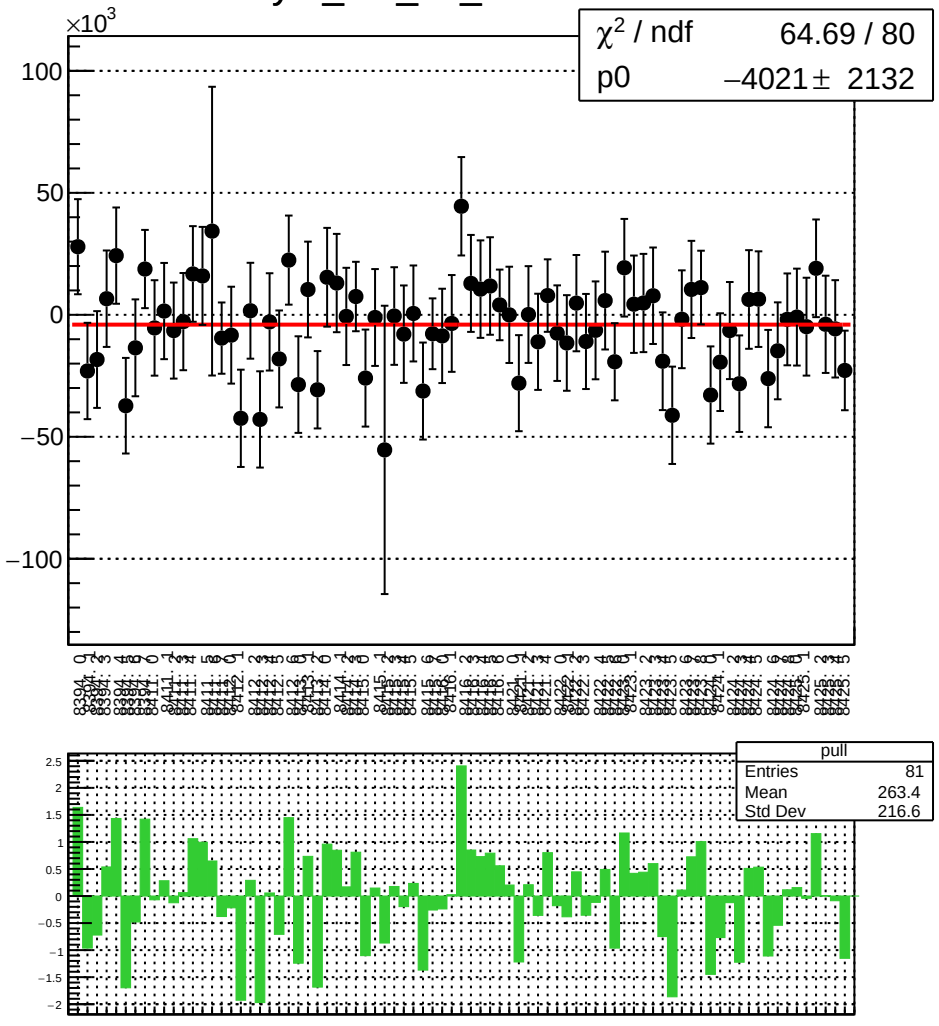

pull1D
Entries 81
Mean −0.007805
Std Dev 0.9198
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

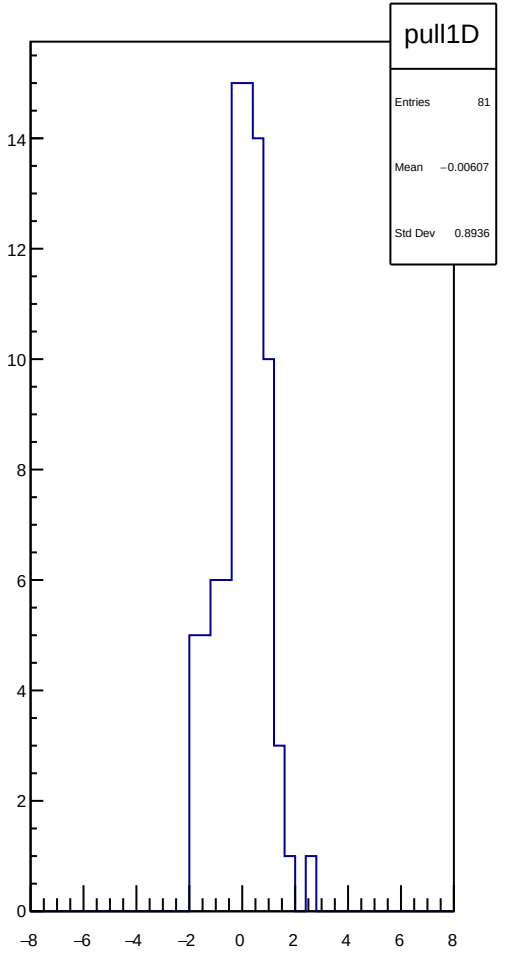

reg_asym_at1_dd_rms vs run
χ² / ndf 1.661e+04 / 80
p0 1806 ± 1.437
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

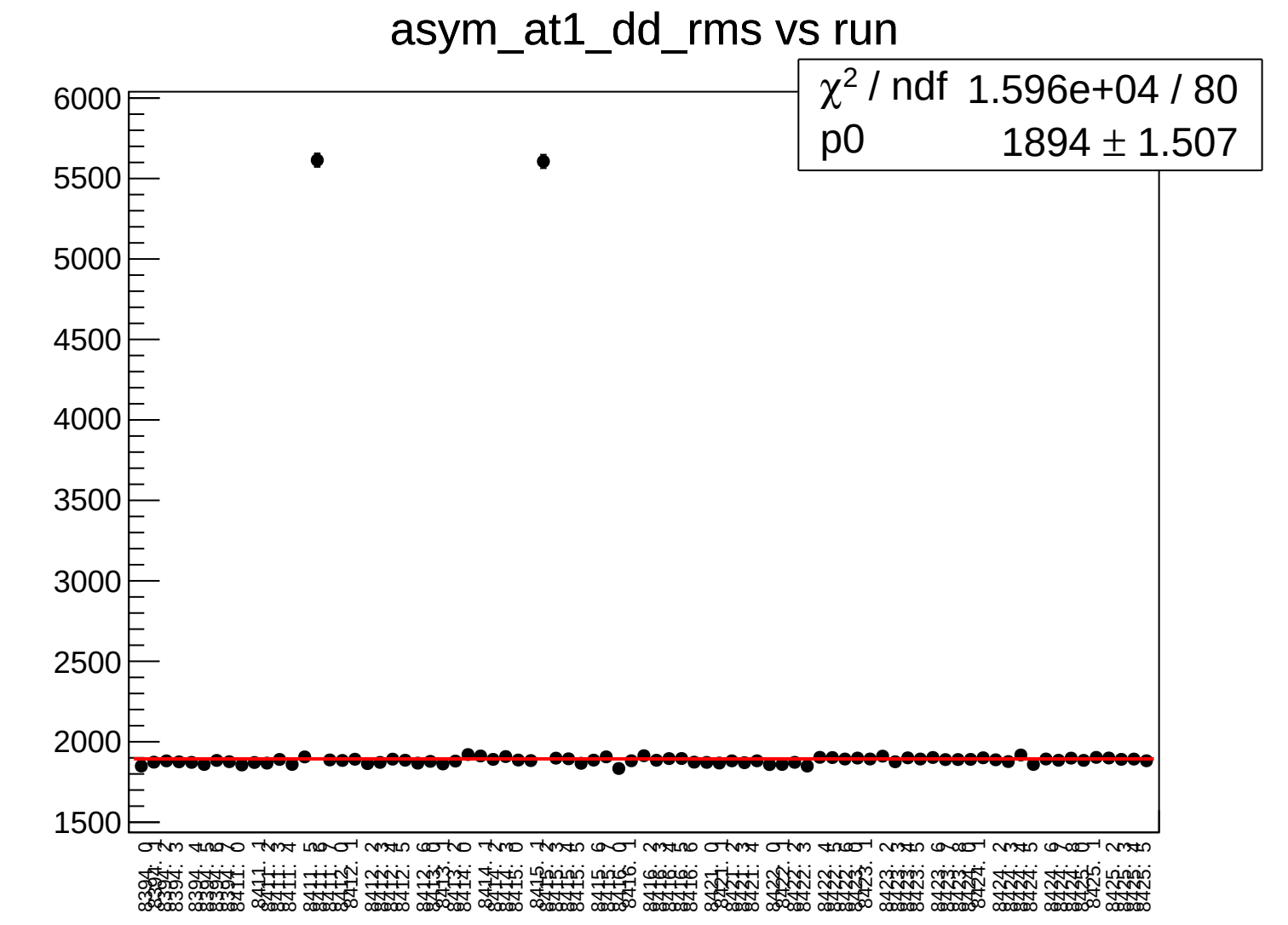

asym_at1_dd_correction_mean vs run
χ² / ndf 78.75 / 80
p0 4203 ± 632.9
30000
20000
10000
0
−10000
pull
Entries 81
Mean 1871
Std Dev 1837
2
1
0
−1
−2

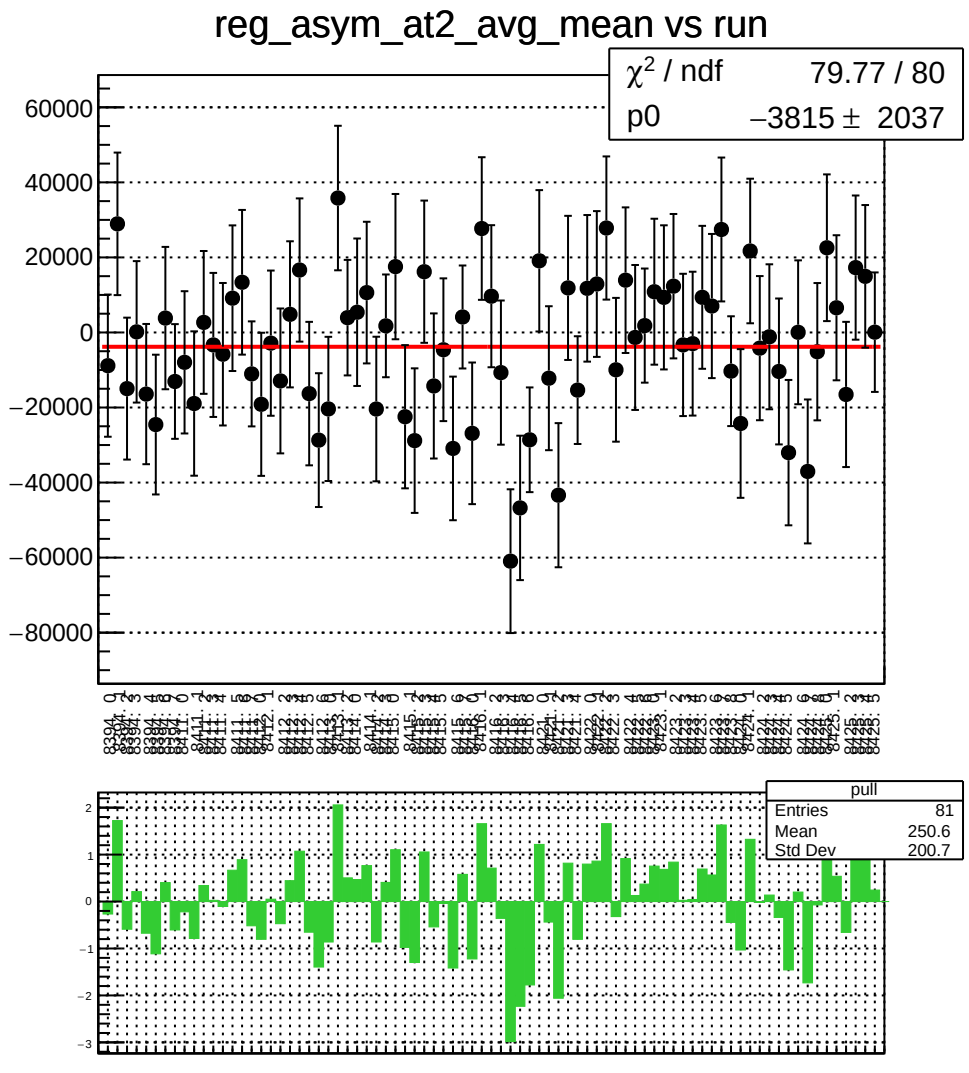

pull1D
Entries 81
Mean 0.001099
Std Dev 0.986
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

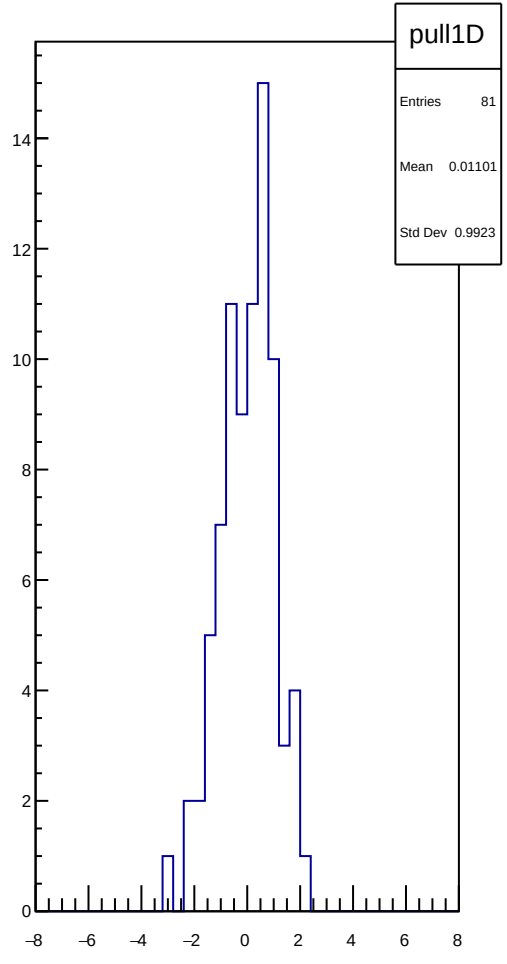

asym_at1_dd_correction_rms vs run
χ² / ndf 4960 / 80
p0 564.3 ± 0.4475
640
620
600
580
560
540
520
500
480
460

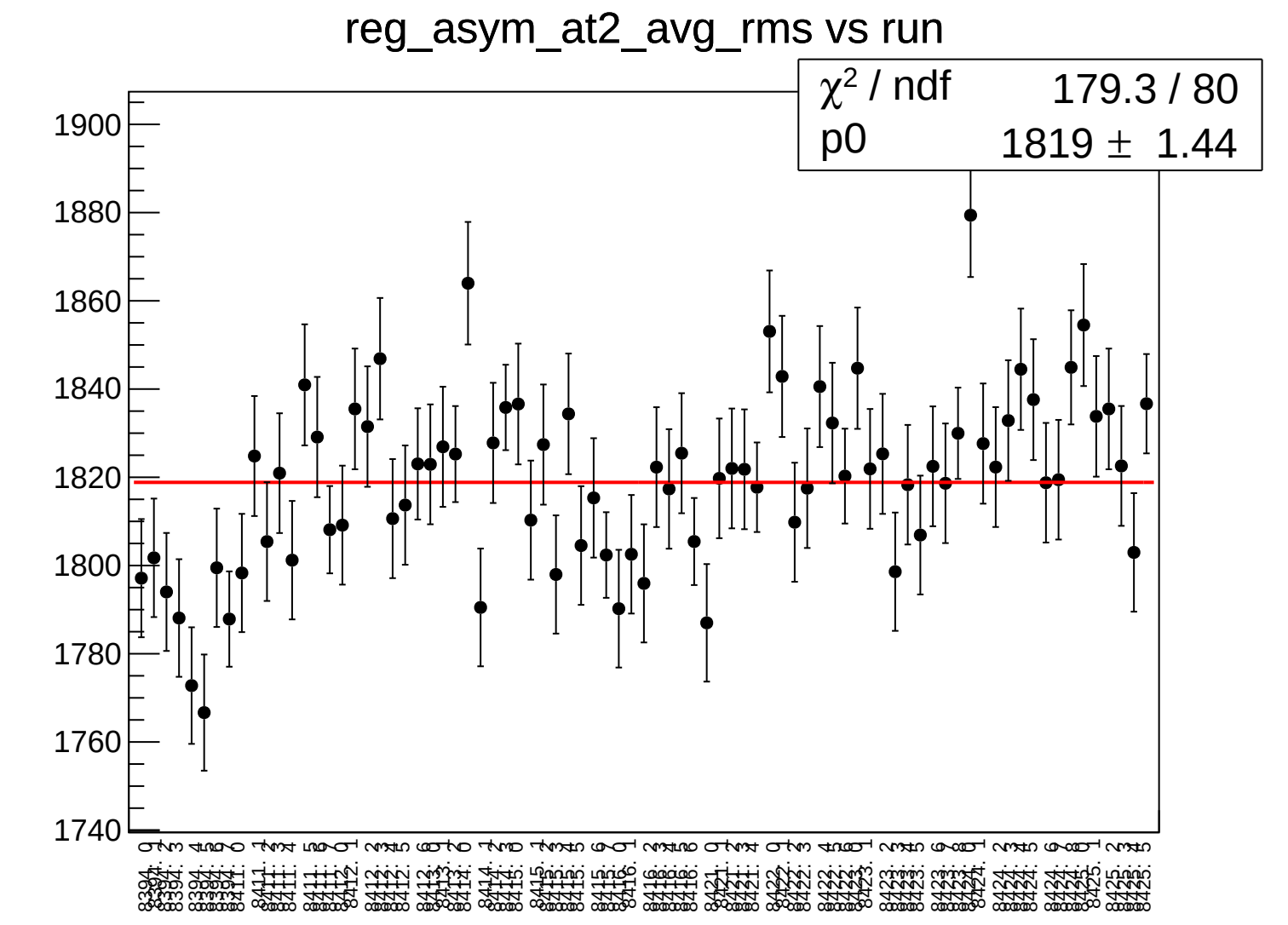

asym_at1_dd_mean vs run
×10^3
χ² / ndf 64.69 / 80
p0 −4021 ± 2132
100
50
0
−50
−100
pull
Entries 81
Mean 263.4
Std Dev 216.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

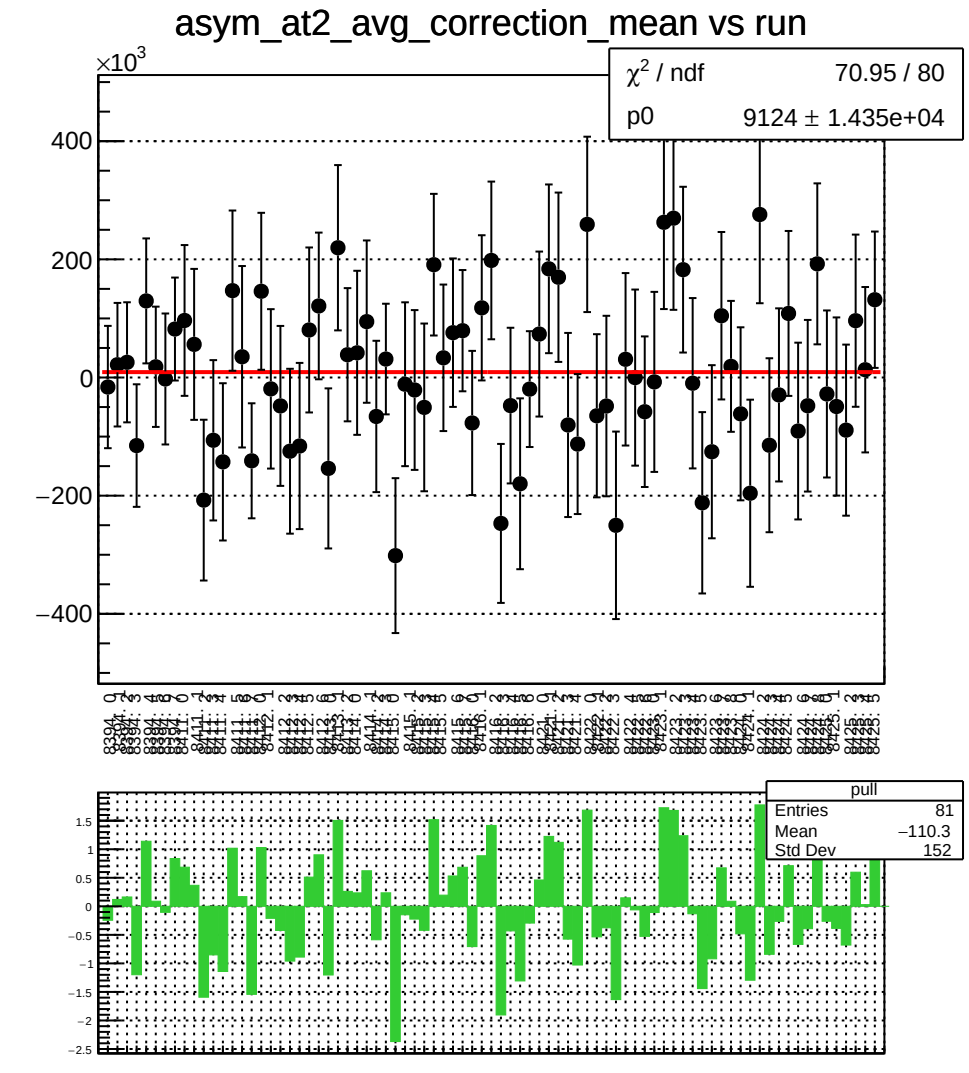

pull1D
Entries 81
Mean −0.00607
Std Dev 0.8936
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

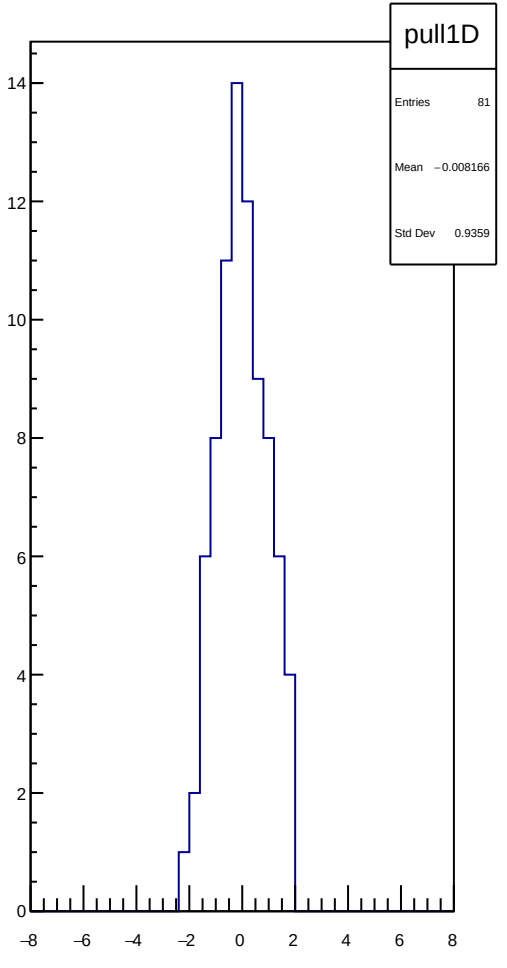

asym_at1_dd_rms vs run
χ² / ndf 1.596e+04 / 80
p0 1894 ± 1.507
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

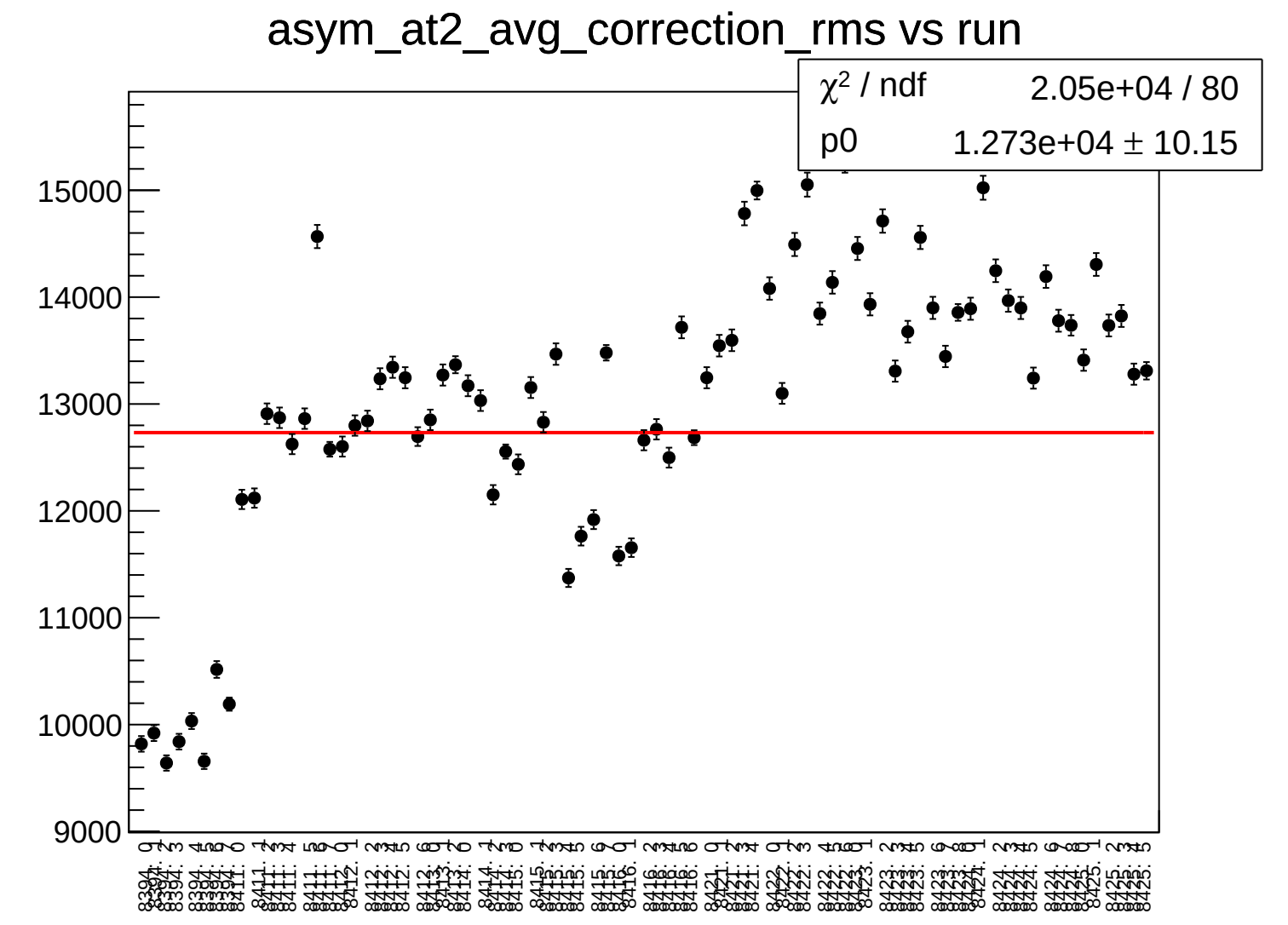

reg_asym_at2_avg_mean vs run
χ² / ndf 79.77 / 80
p0 −3815 ± 2037
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean 250.6
Std Dev 200.7
2
1
0
−1
−2
−3

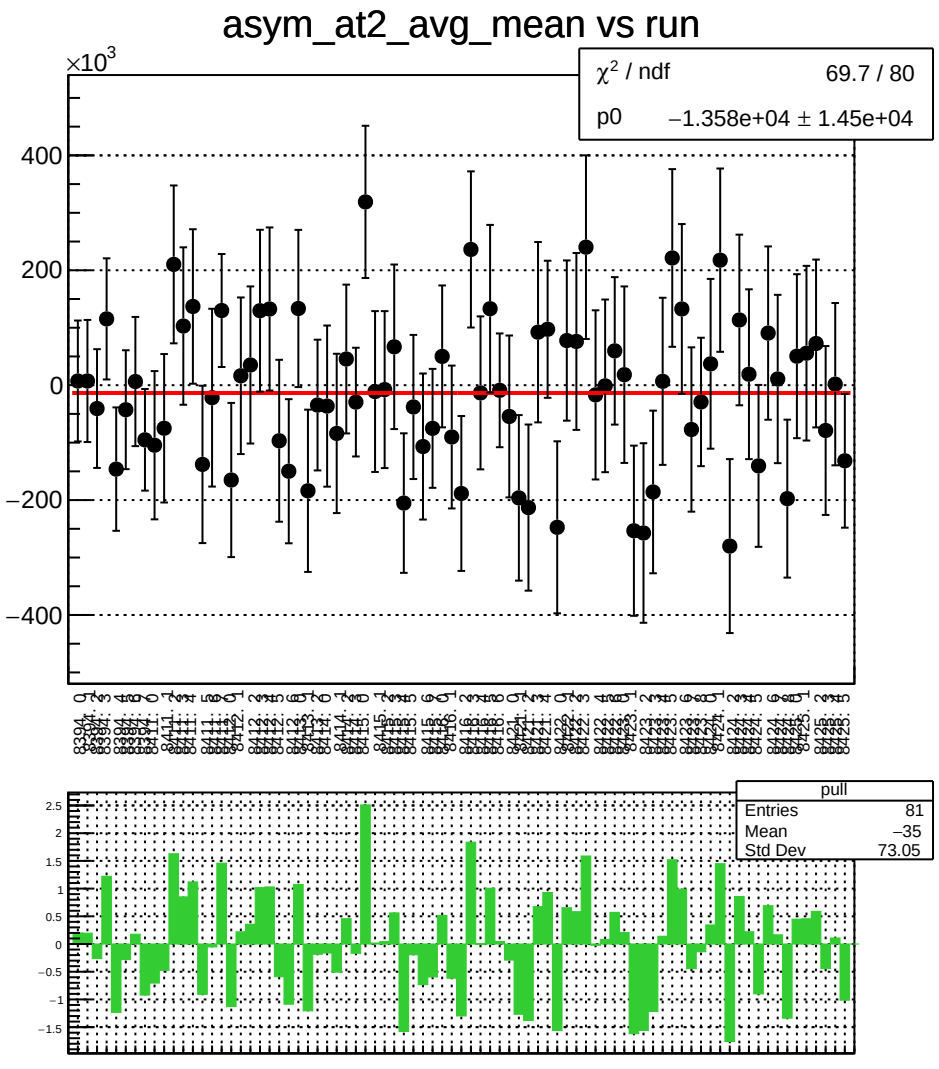

pull1D
Entries 81
Mean 0.01101
Std Dev 0.9923
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

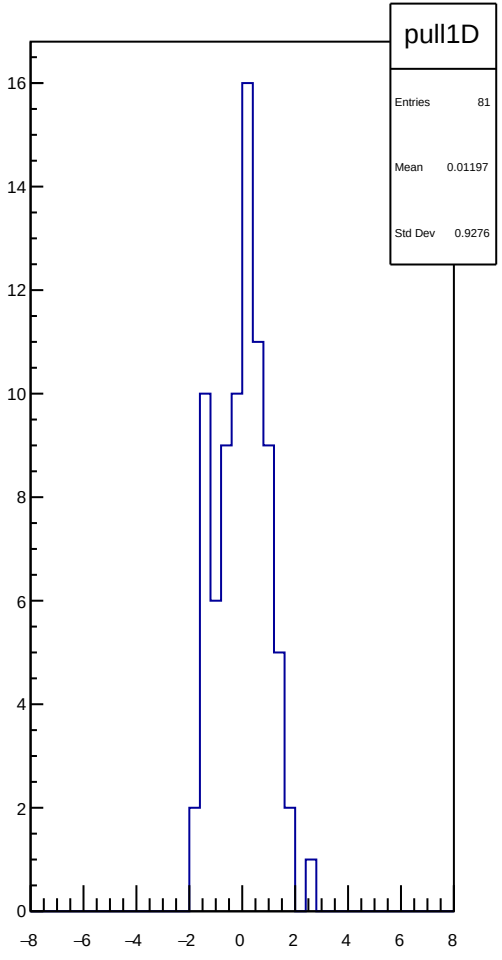

reg_asym_at2_avg_rms vs run
χ² / ndf 179.3 / 80
p0 1819 ± 1.44
1900
1880
1860
1840
1820
1800
1780
1760
1740

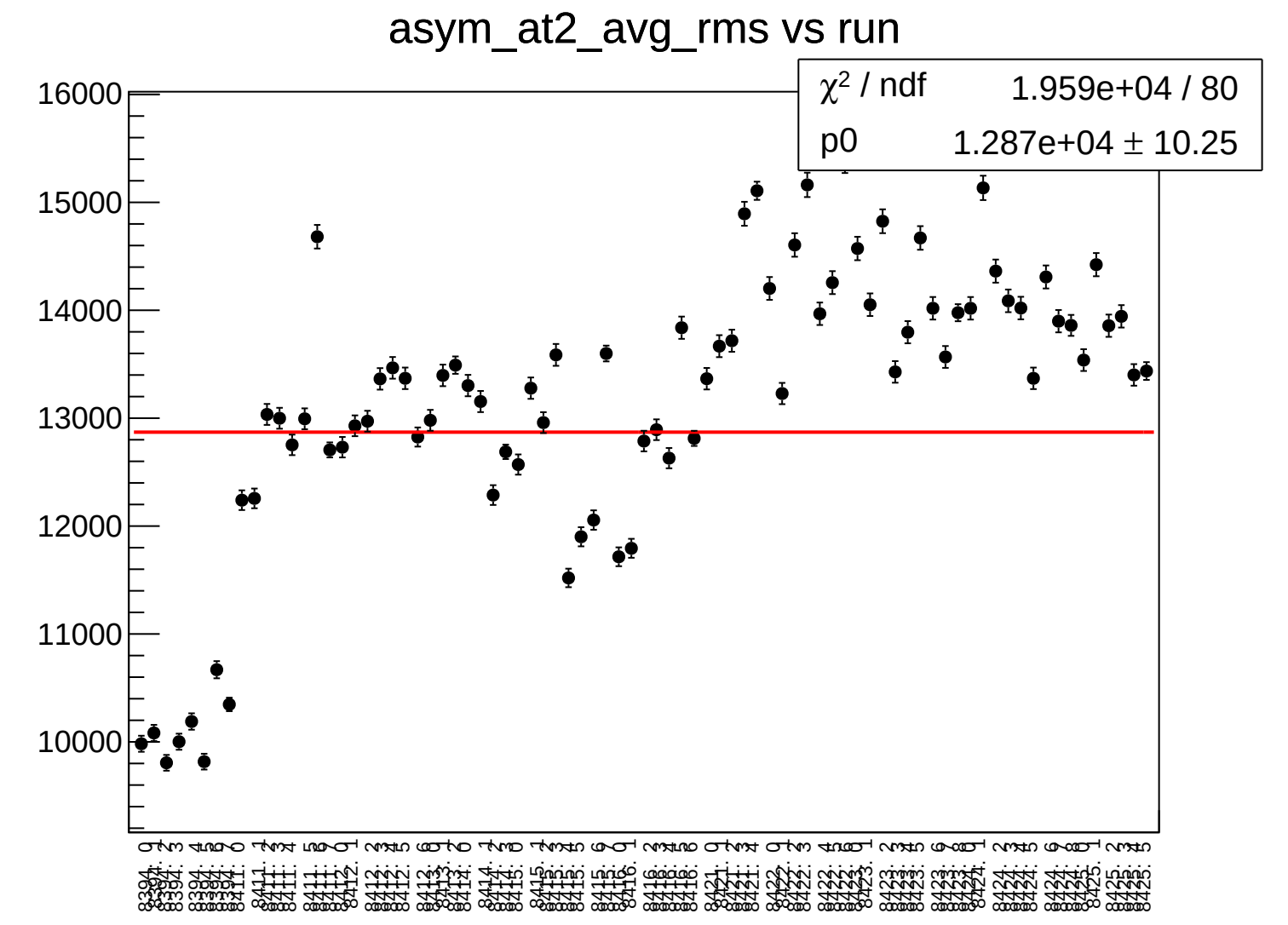

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 70.95 / 80
p0 9124 ± 1.435e+04
400
200
0
−200
−400
pull
Entries 81
Mean −110.3
Std Dev 152
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

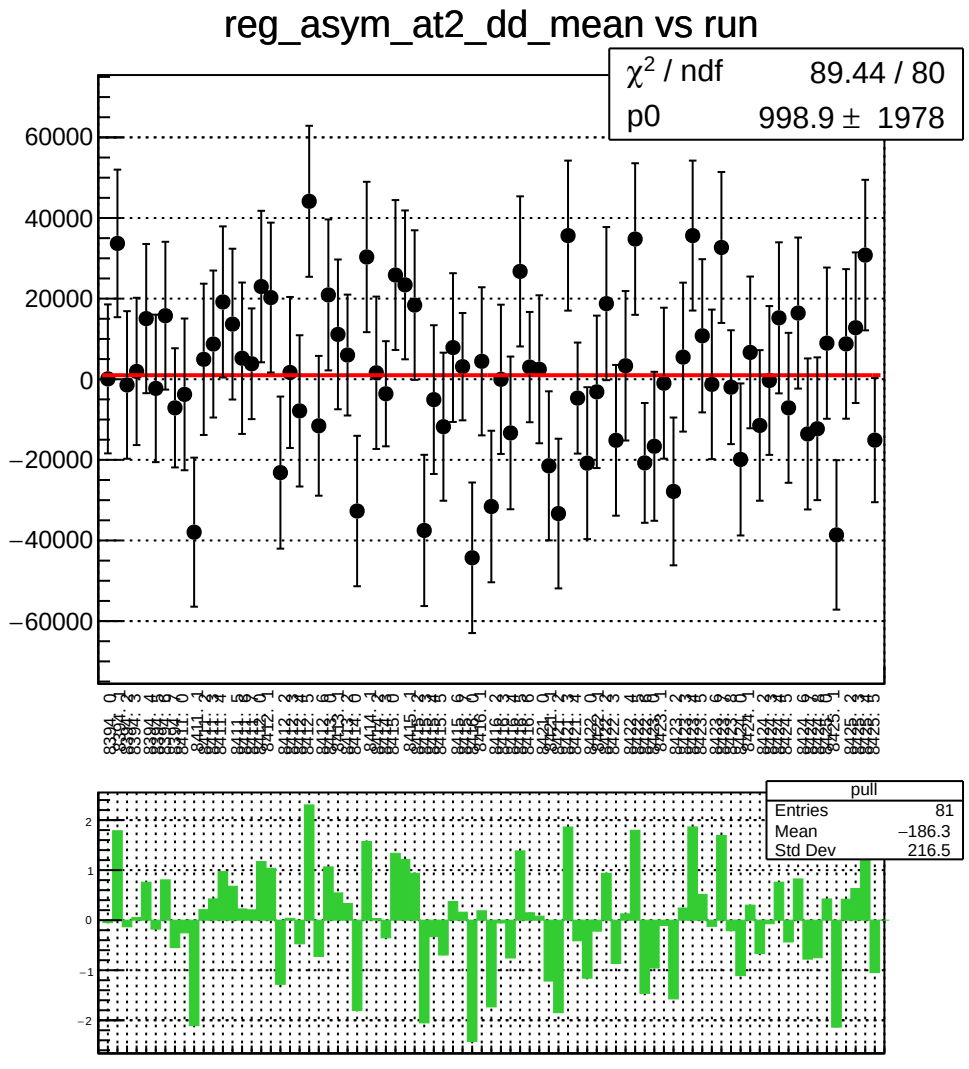

pull1D
Entries 81
Mean −0.008166
Std Dev 0.9359
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

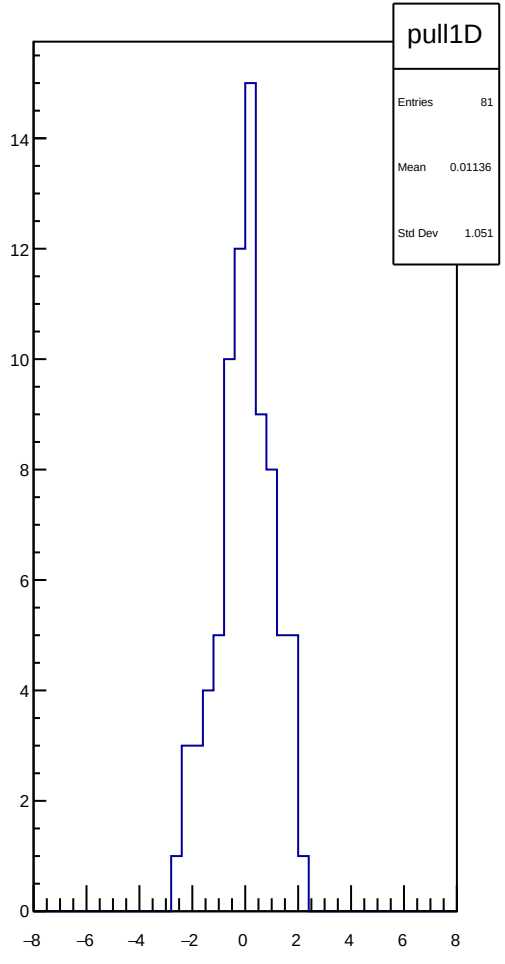

asym_at2_avg_correction_rms vs run
χ² / ndf 2.05e+04 / 80
p0 1.273e+04 ± 10.15
15000
14000
13000
12000
11000
10000
9000

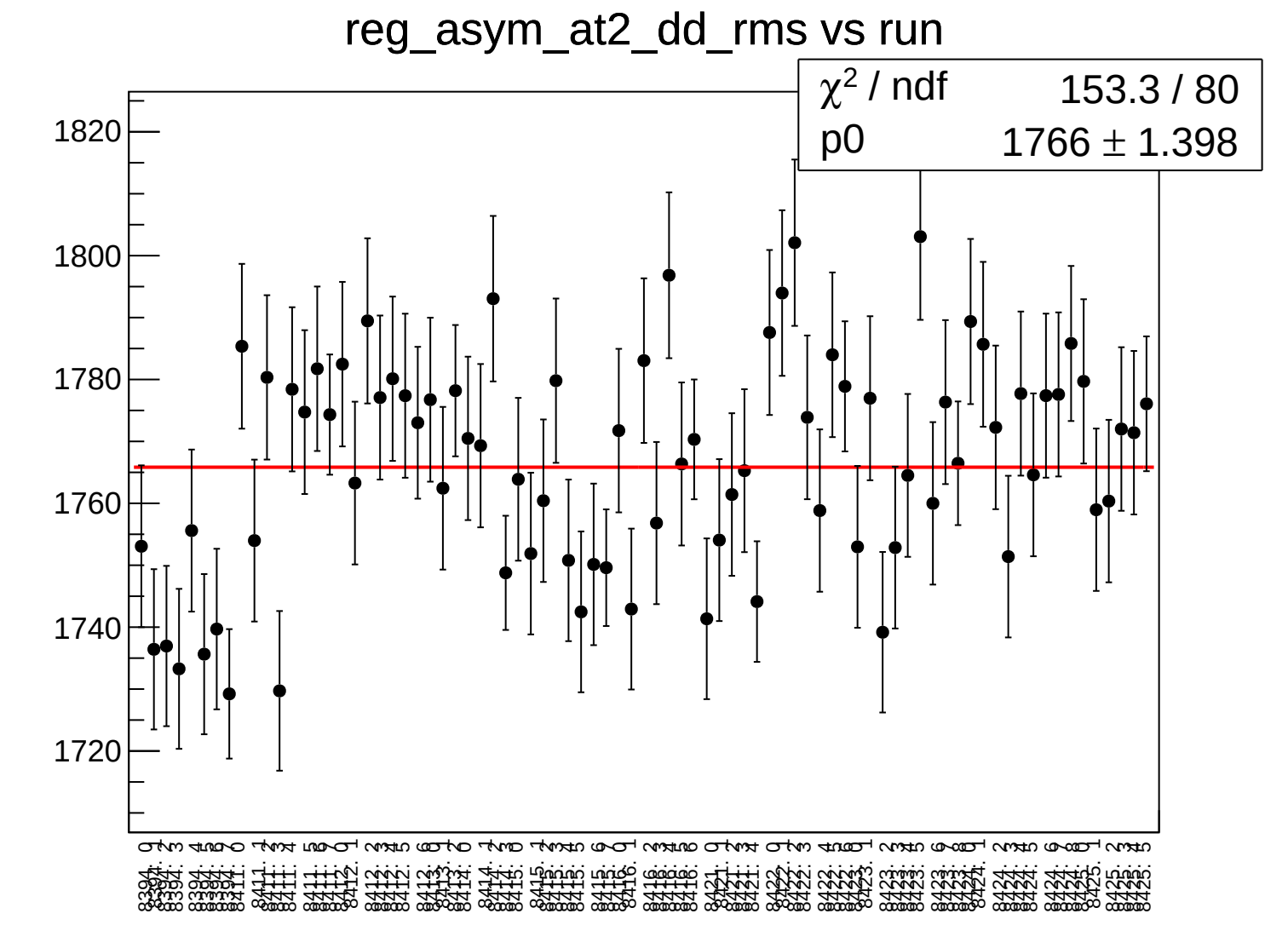

asym_at2_avg_mean vs run
×10^3
χ² / ndf 69.7 / 80
p0 −1.358e+04 ± 1.45e+04
400
200
0
−200
−400
pull
Entries 81
Mean −35
Std Dev 73.05
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

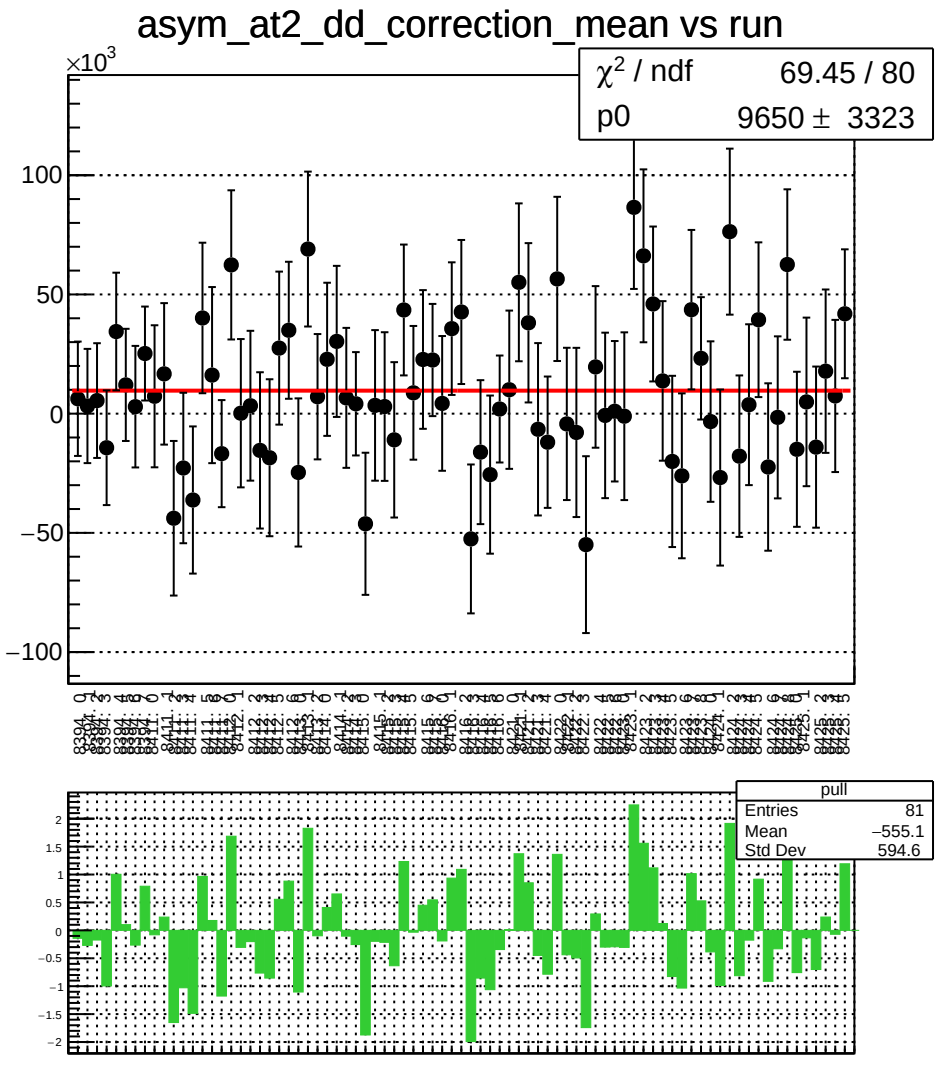

pull1D
Entries 81
Mean 0.01197
Std Dev 0.9276
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

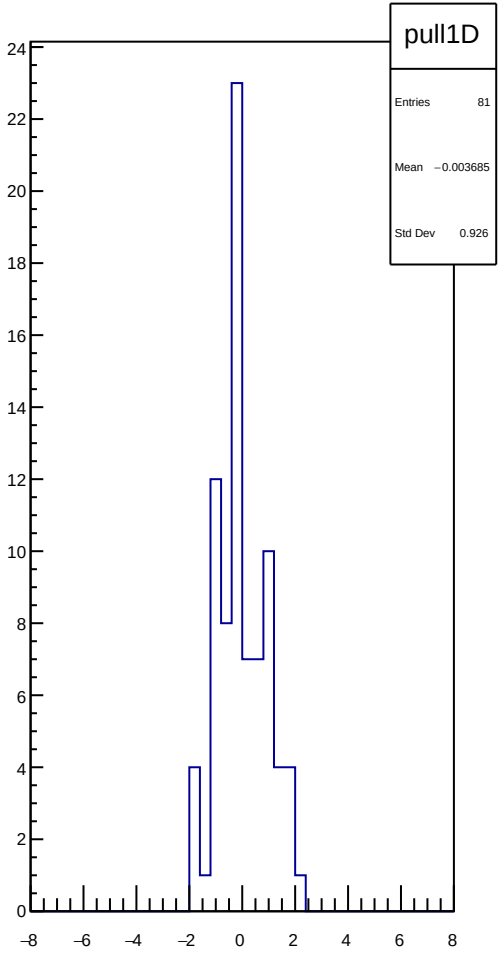

asym_at2_avg_rms vs run
χ² / ndf 1.959e+04 / 80
p0 1.287e+04 ± 10.25
16000
15000
14000
13000
12000
11000
10000

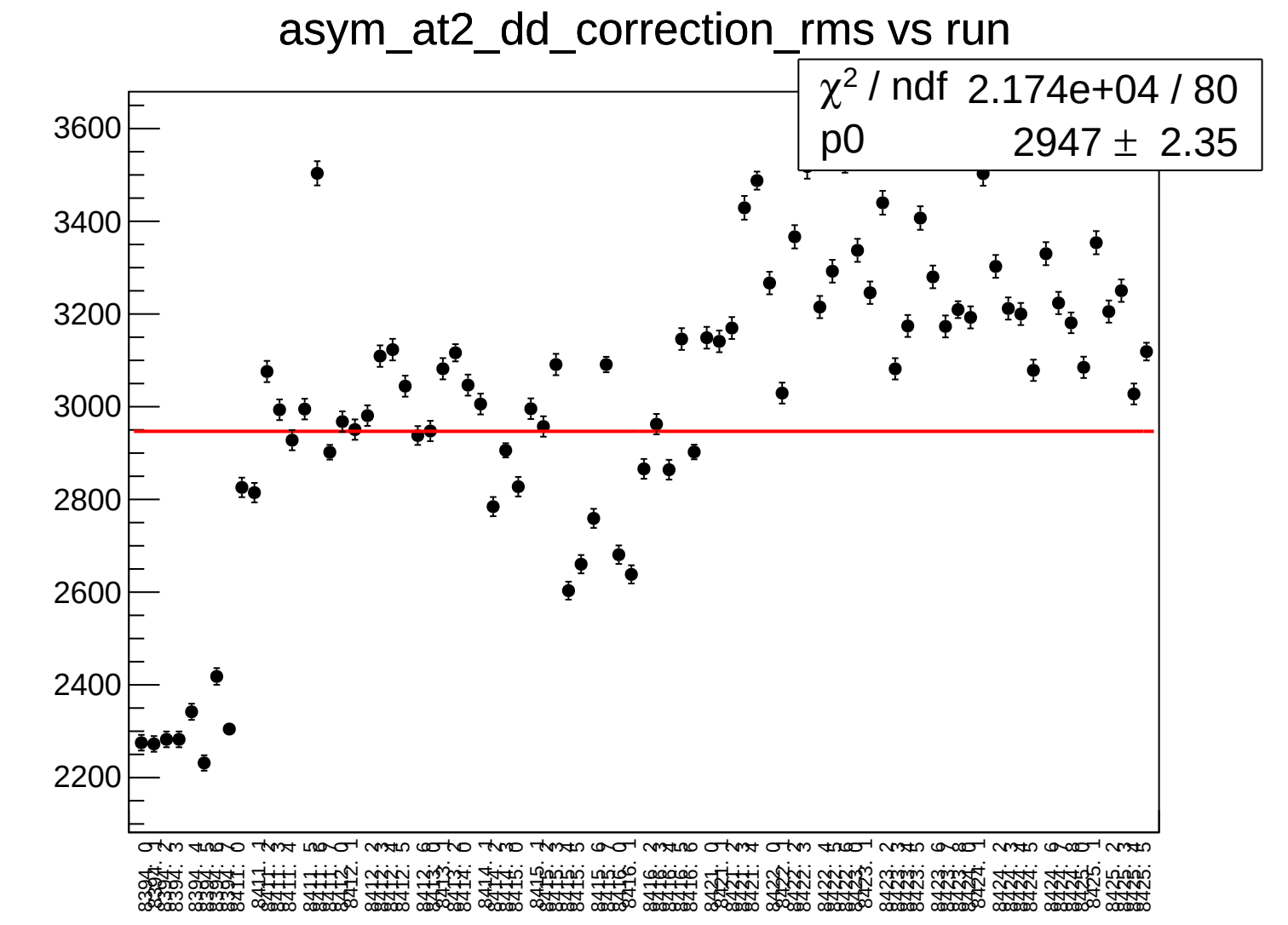

reg_asym_at2_dd_mean vs run
χ^2 / ndf 89.44 / 80
p0 998.9 ± 1978
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −186.3
Std Dev 216.5
2
1
0
−1
−2

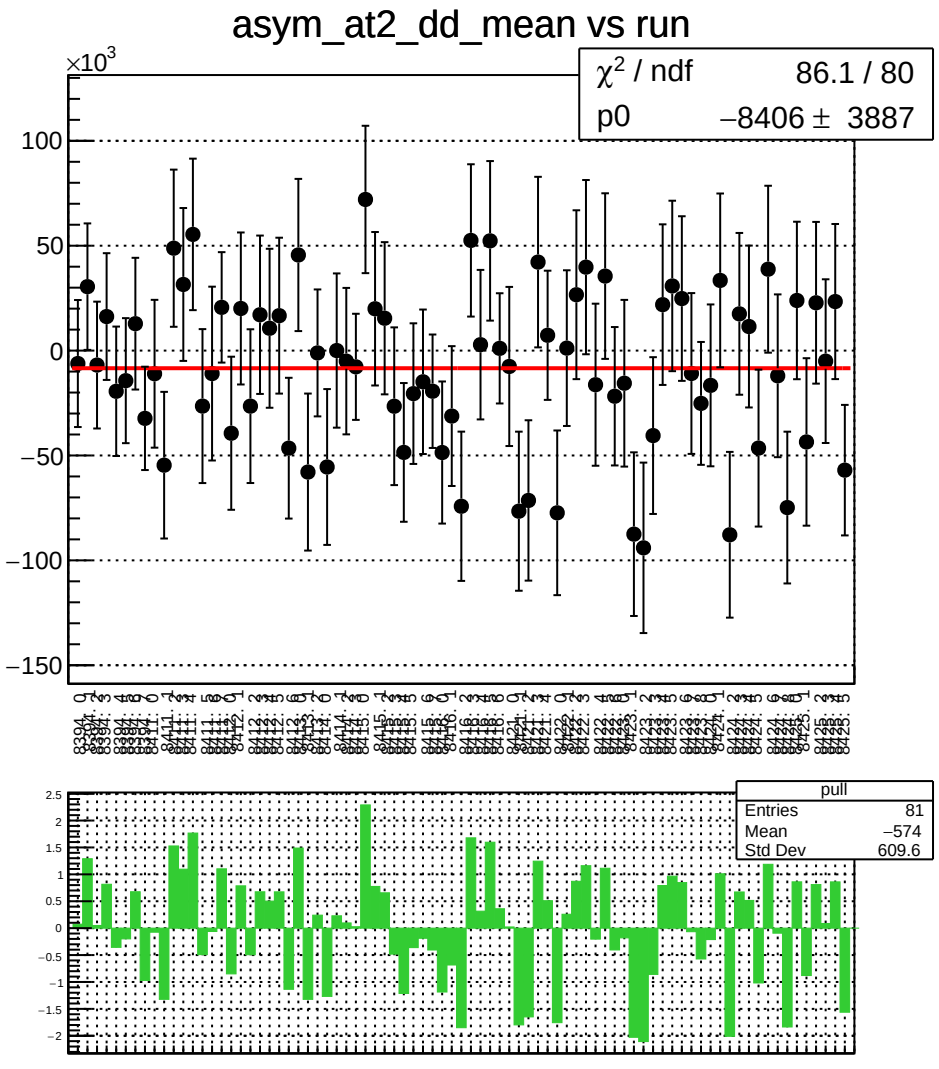

pull1D
Entries 81
Mean 0.01136
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

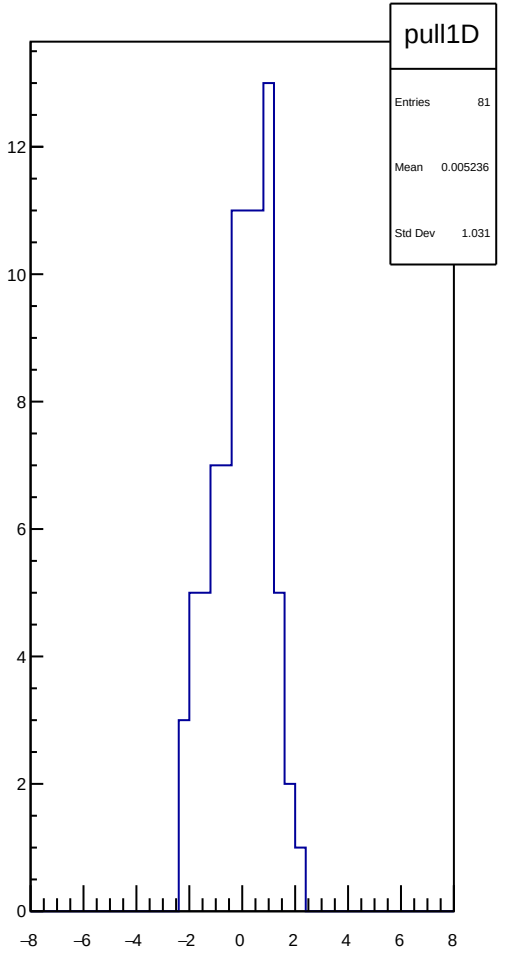

reg_asym_at2_dd_rms vs run
χ^2 / ndf 153.3 / 80
p0 1766 ± 1.398
1820
1800
1780
1760
1740
1720

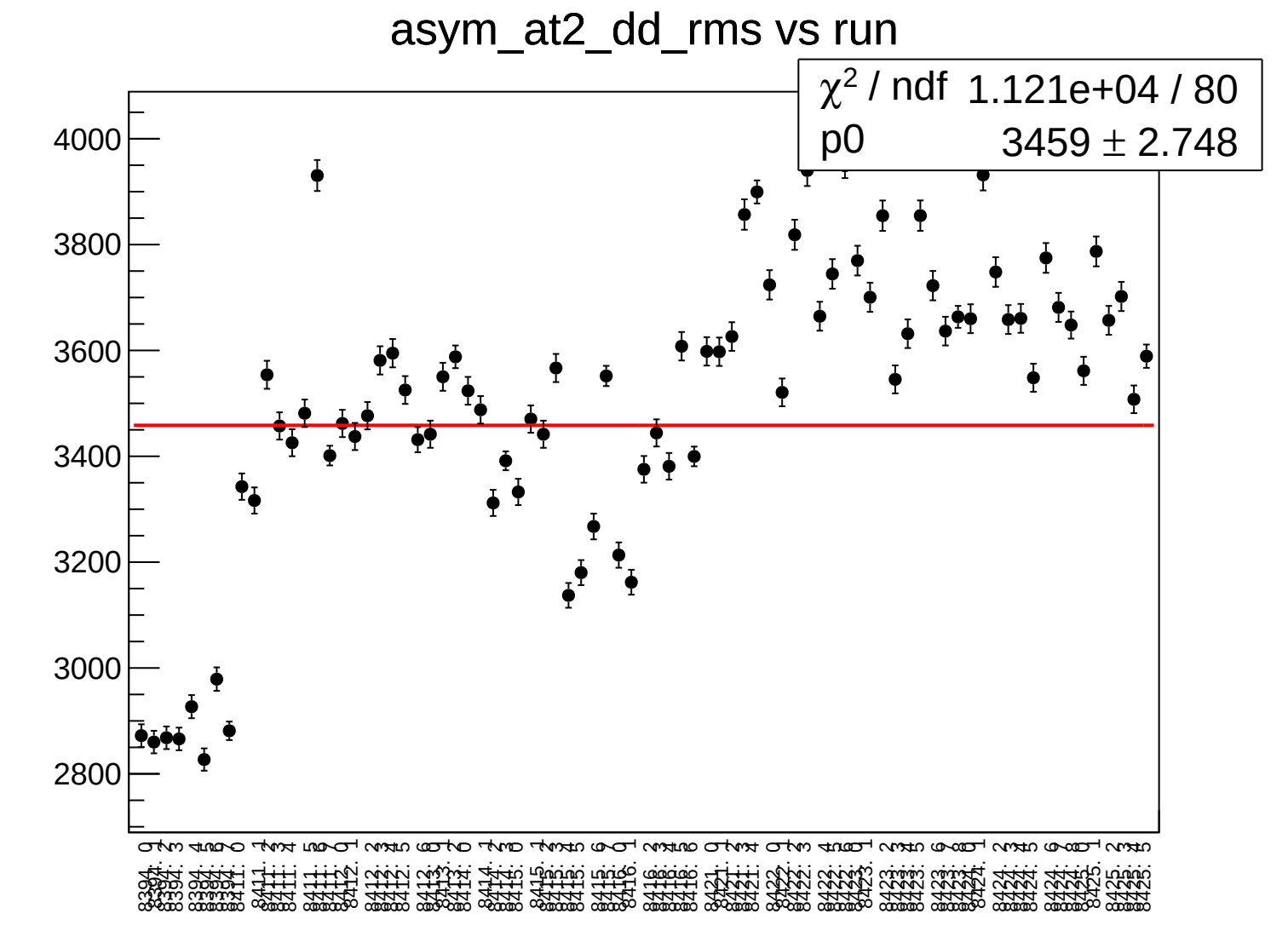

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 69.45 / 80
p0 9650 ± 3323
100
50
0
−50
−100
pull
Entries 81
Mean −555.1
Std Dev 594.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

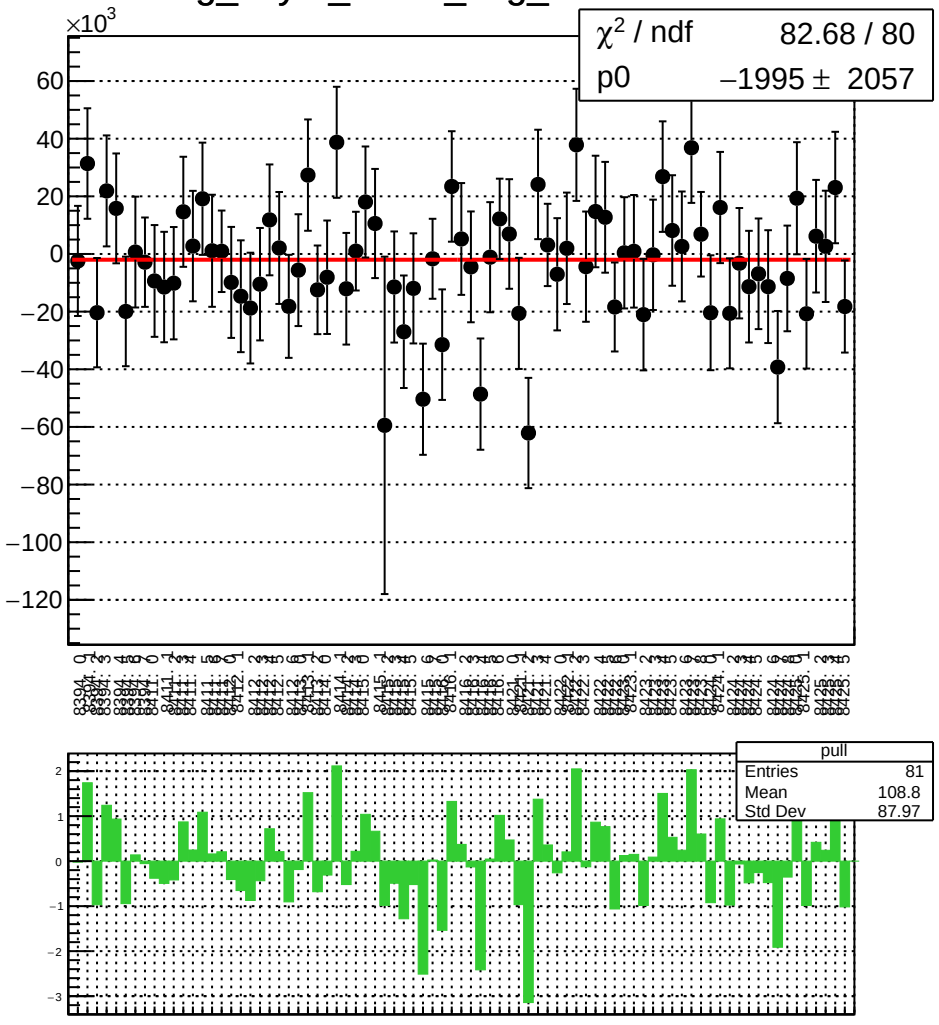

pull1D
Entries 81
Mean −0.003685
Std Dev 0.926
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

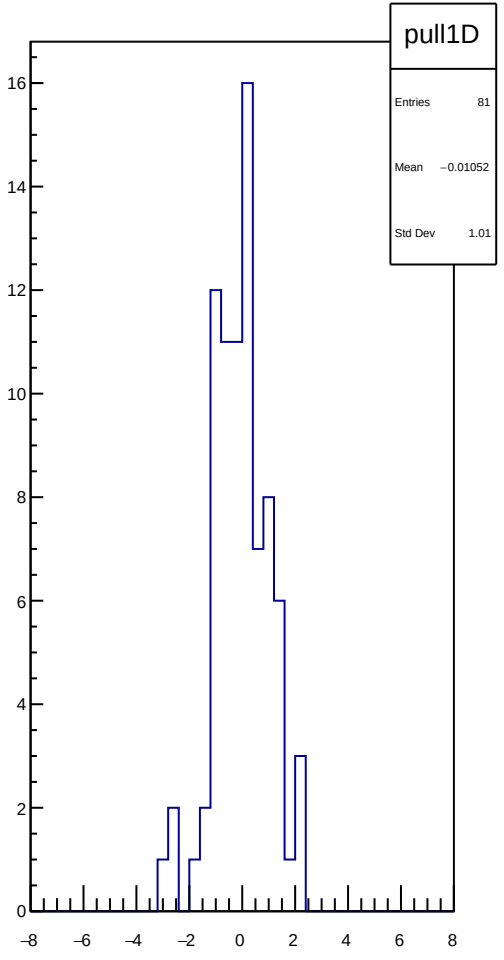

asym_at2_dd_correction_rms vs run
χ² / ndf 2.174e+04 / 80
p0 2947 ± 2.35
3600
3400
3200
3000
2800
2600
2400
2200

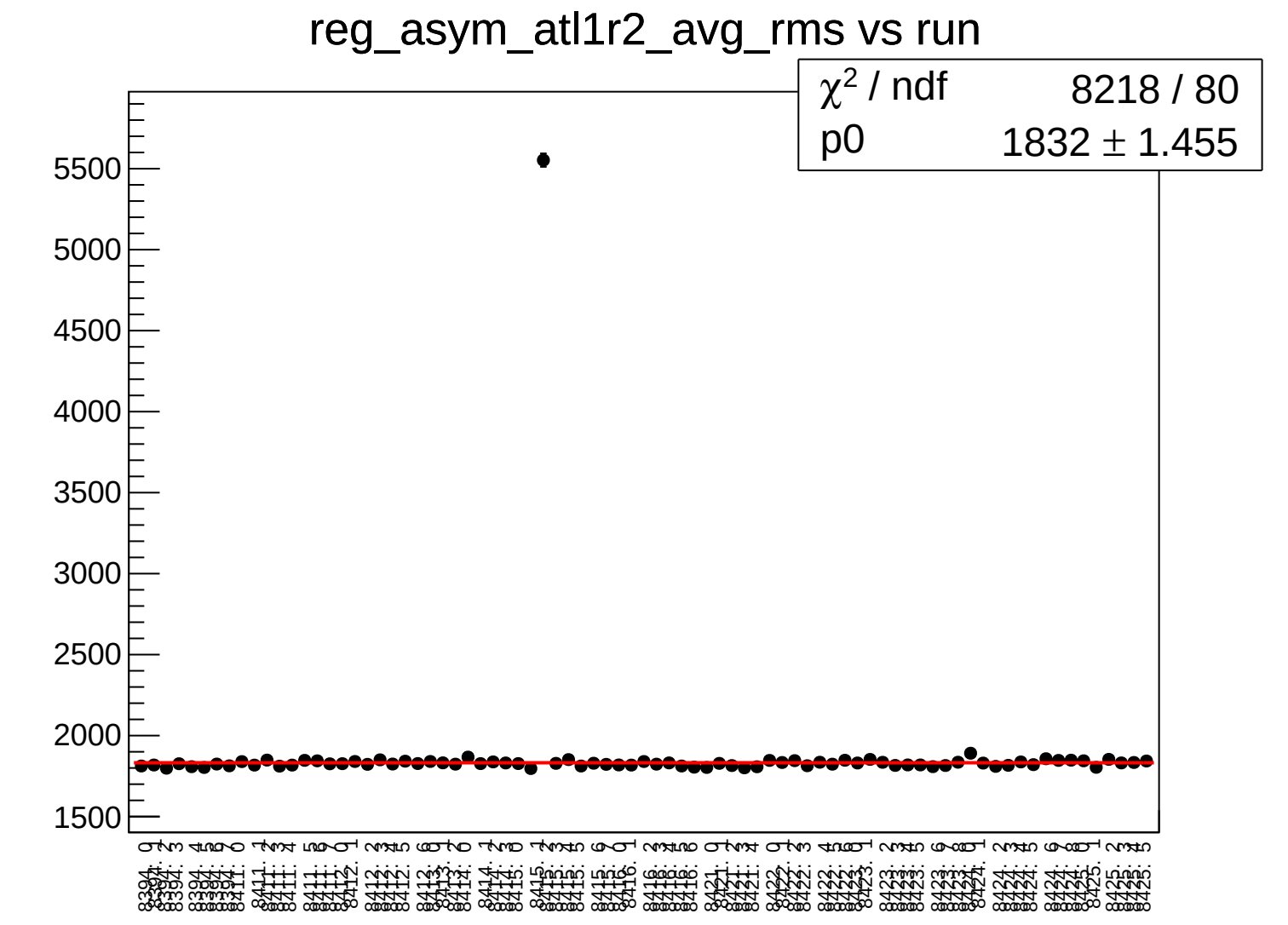

asym_at2_dd_mean vs run
×10^3
χ² / ndf 86.1 / 80
p0 −8406 ± 3887
100
50
0
−50
−100
−150
pull
Entries 81
Mean −574
Std Dev 609.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

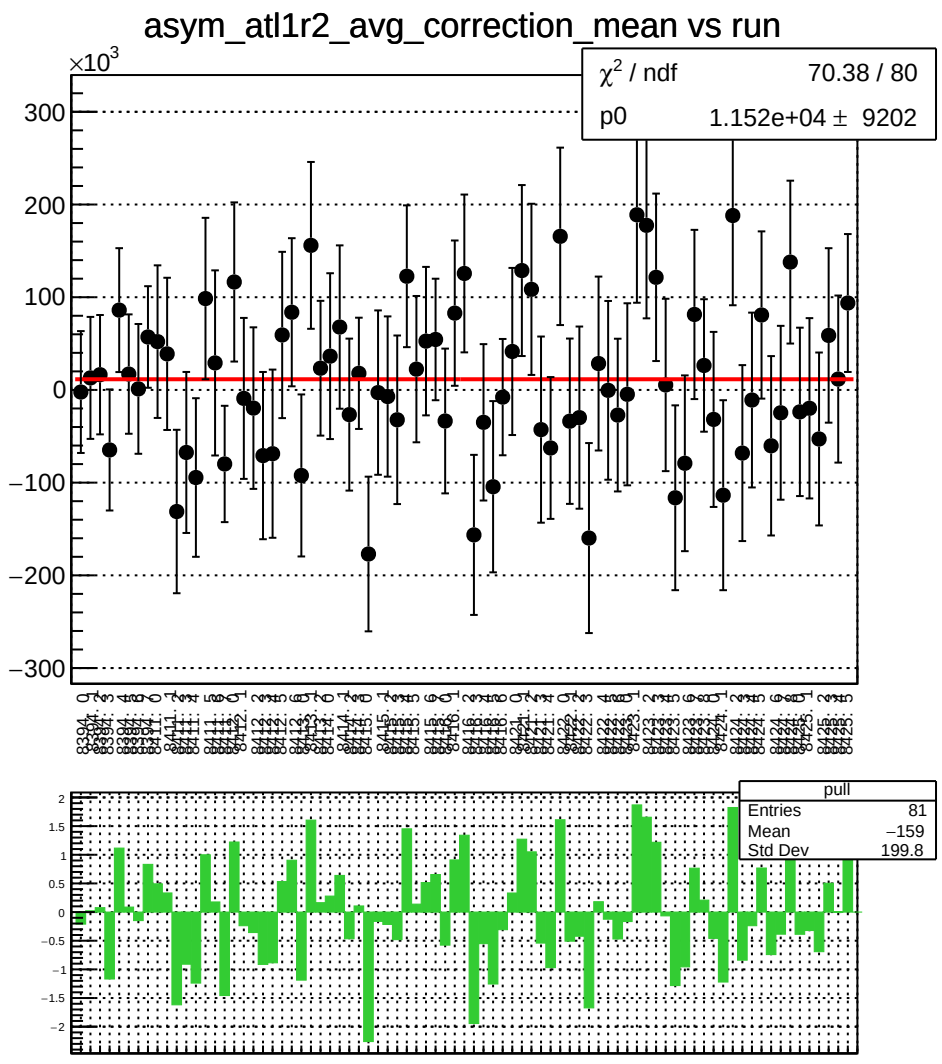

pull1D
Entries 81
Mean 0.005236
Std Dev 1.031
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

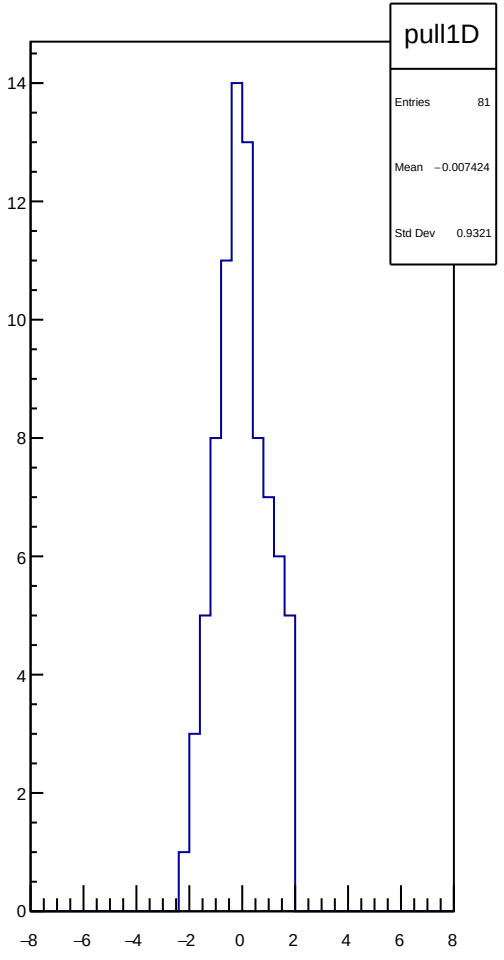

asym_at2_dd_rms vs run
χ² / ndf 1.121e+04 / 80
p0 3459 ± 2.748
4000
3800
3600
3400
3200
3000
2800

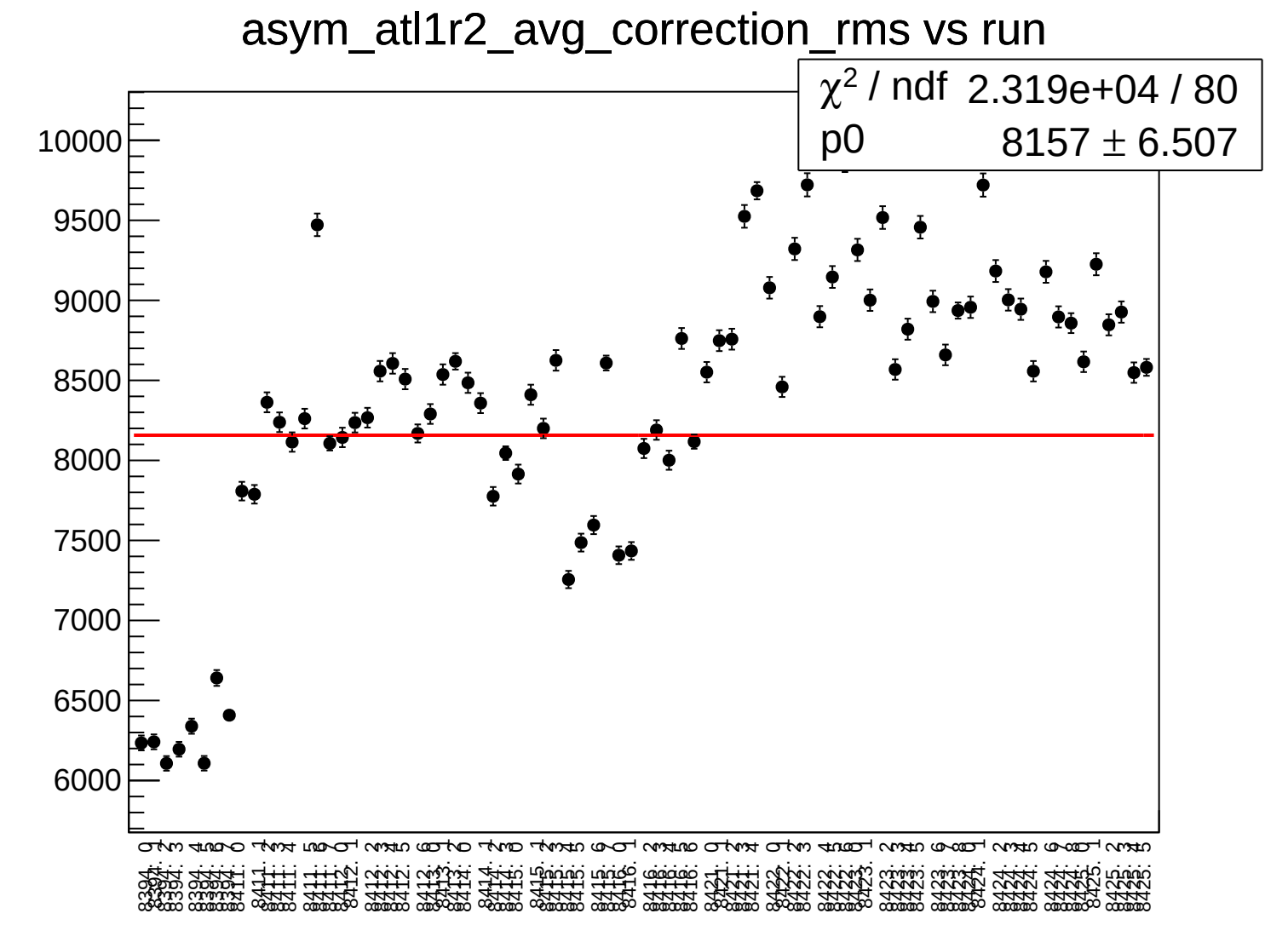

reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 82.68 / 80
p0 −1995 ± 2057
pull
Entries 81
Mean 108.8
Std Dev 87.97

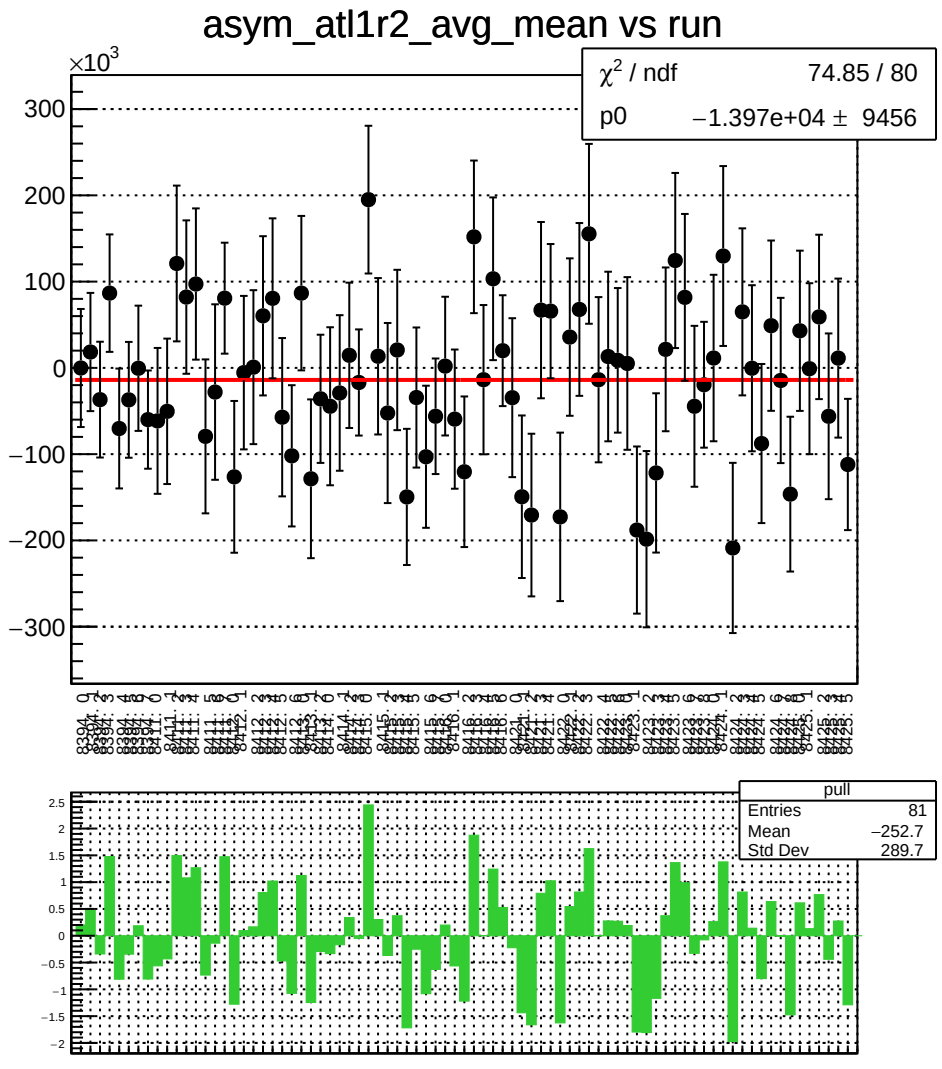

pull1D
Entries 81
Mean −0.01052
Std Dev 1.01

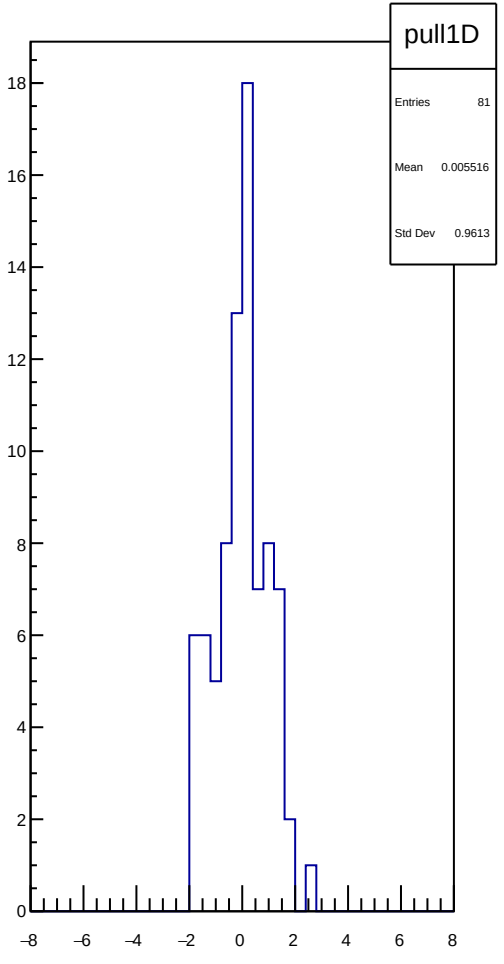

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 8218 / 80
p0 1832 ± 1.455
5500
5000
4500
4000
3500
3000
2500
2000
1500

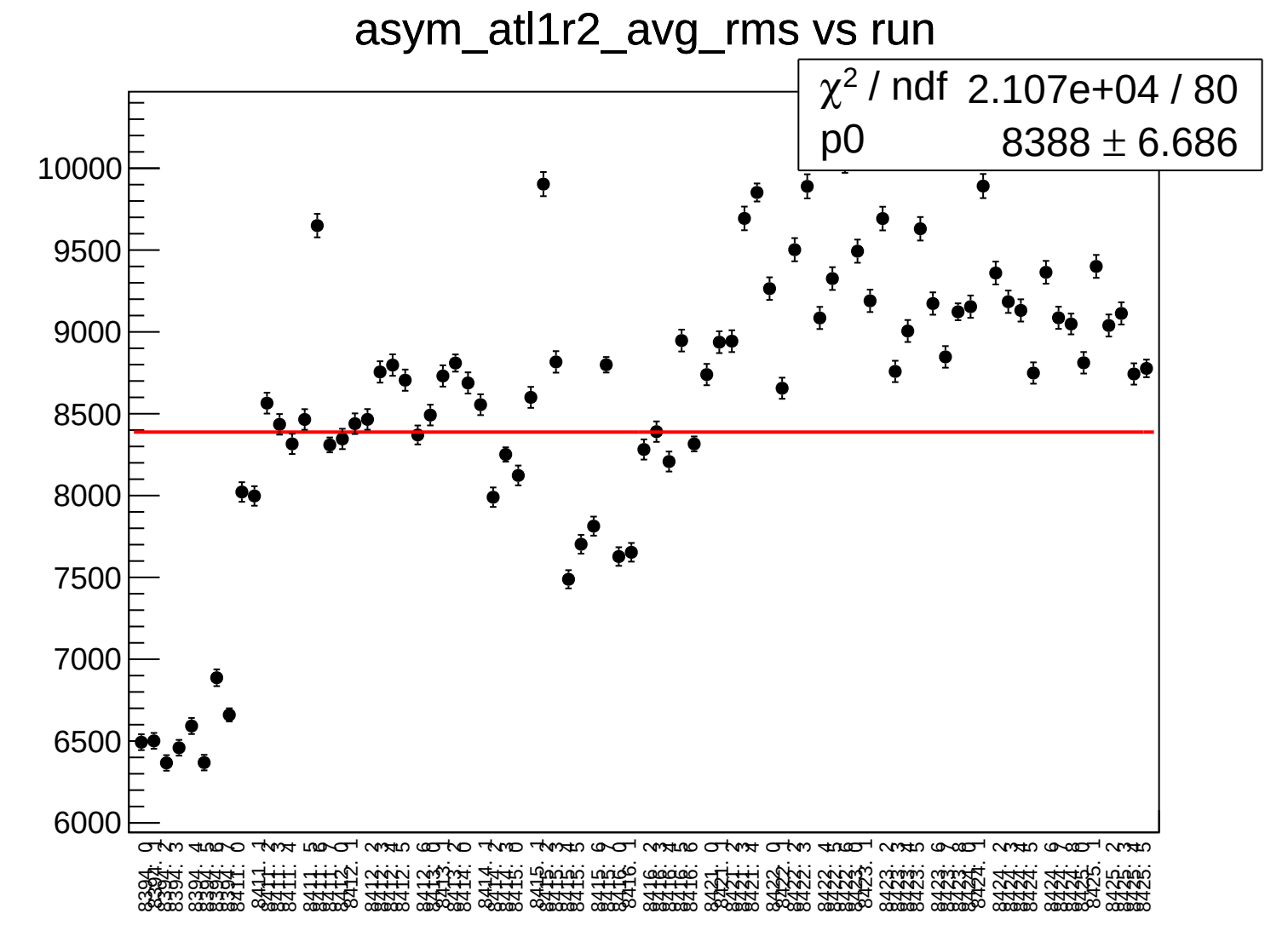

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 70.38 / 80
p0 1.152e+04 ± 9202
pull
Entries 81
Mean −159
Std Dev 199.8

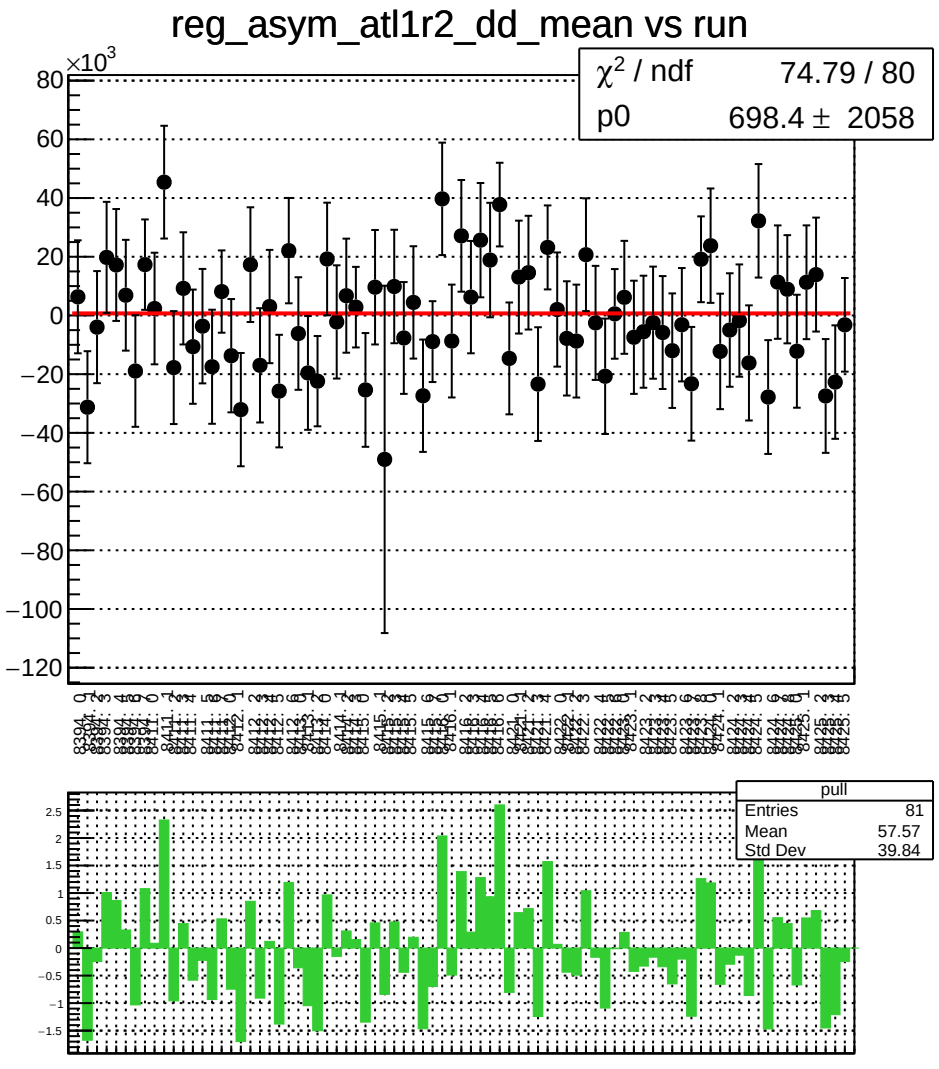

pull1D
Entries 81
Mean −0.007424
Std Dev 0.9321

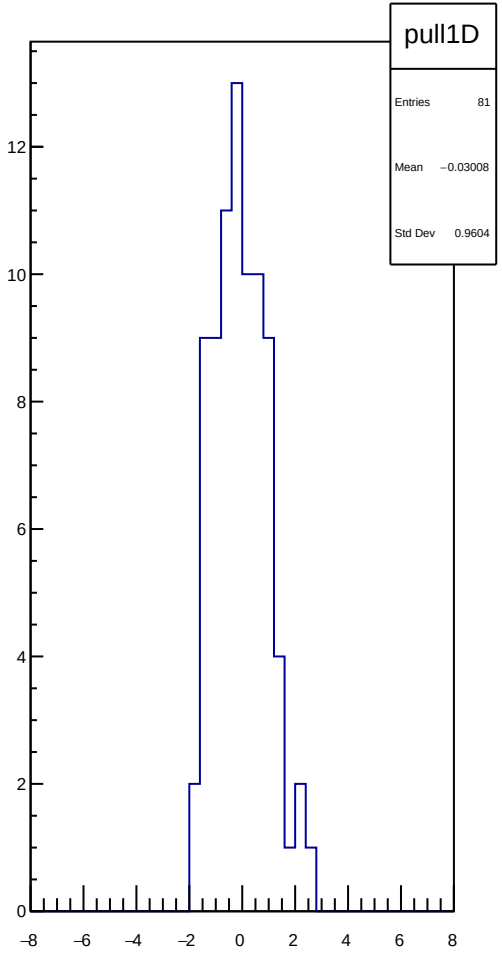

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 2.319e+04 / 80
p0 8157 ± 6.507
10000
9500
9000
8500
8000
7500
7000
6500
6000

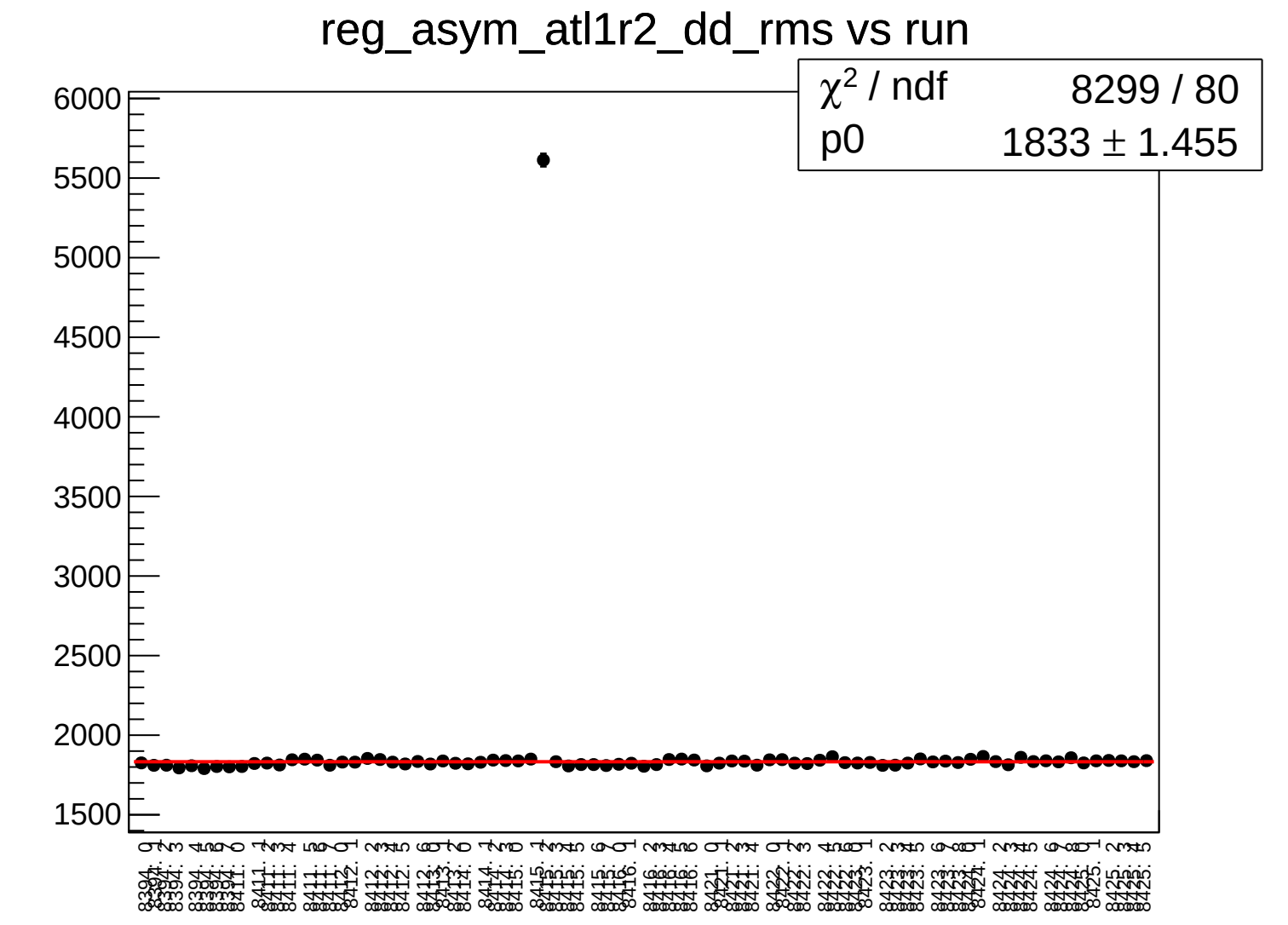

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 74.85 / 80
p0 −1.397e+04 ± 9456
pull
Entries 81
Mean −252.7
Std Dev 289.7

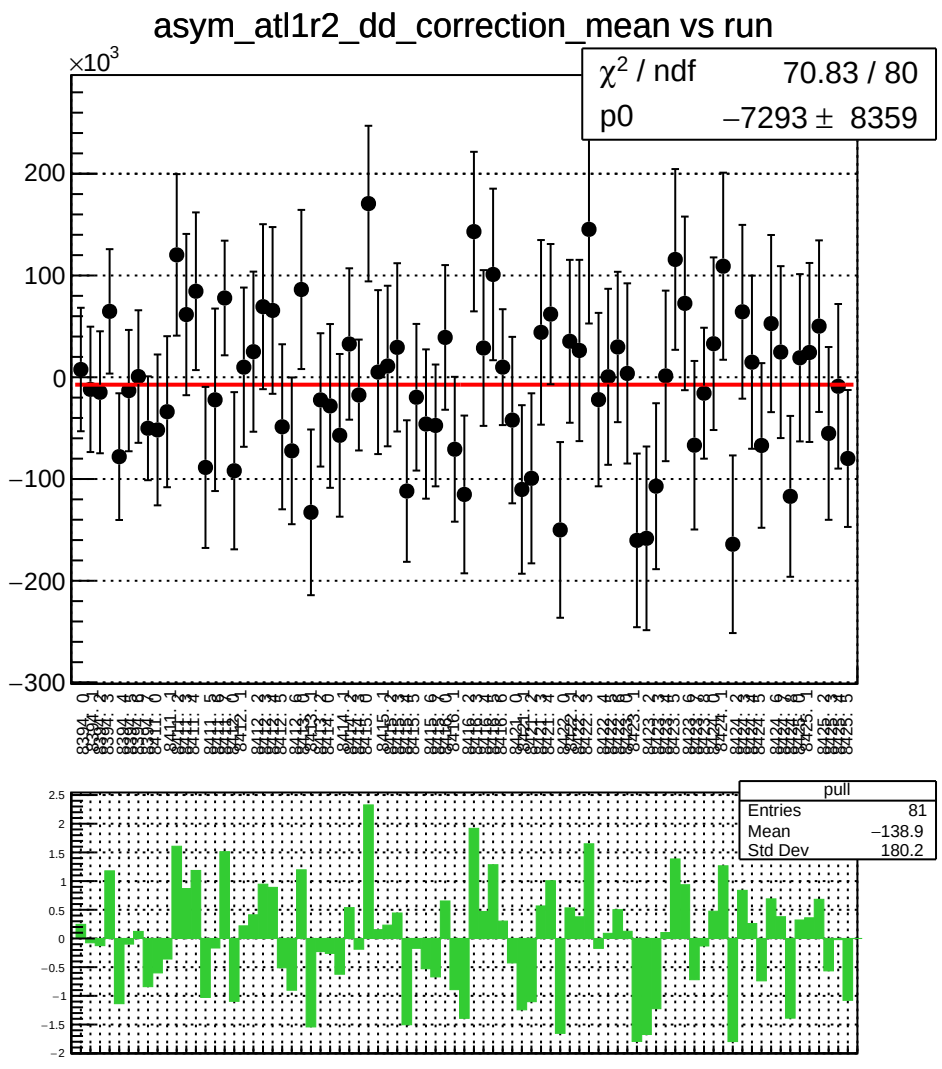

pull1D
Entries 81
Mean 0.005516
Std Dev 0.9613

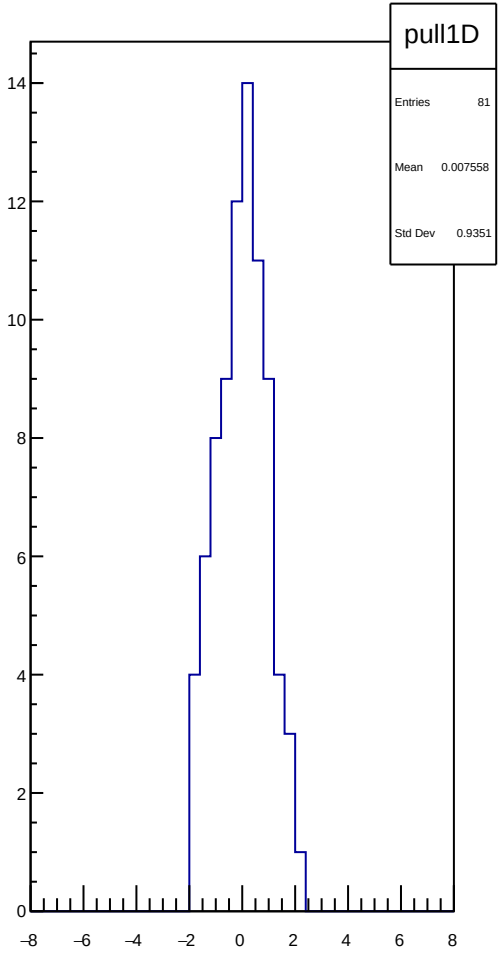

asym_atl1r2_avg_rms vs run
χ² / ndf 2.107e+04 / 80
p0 8388 ± 6.686
10000
9500
9000
8500
8000
7500
7000
6500
6000

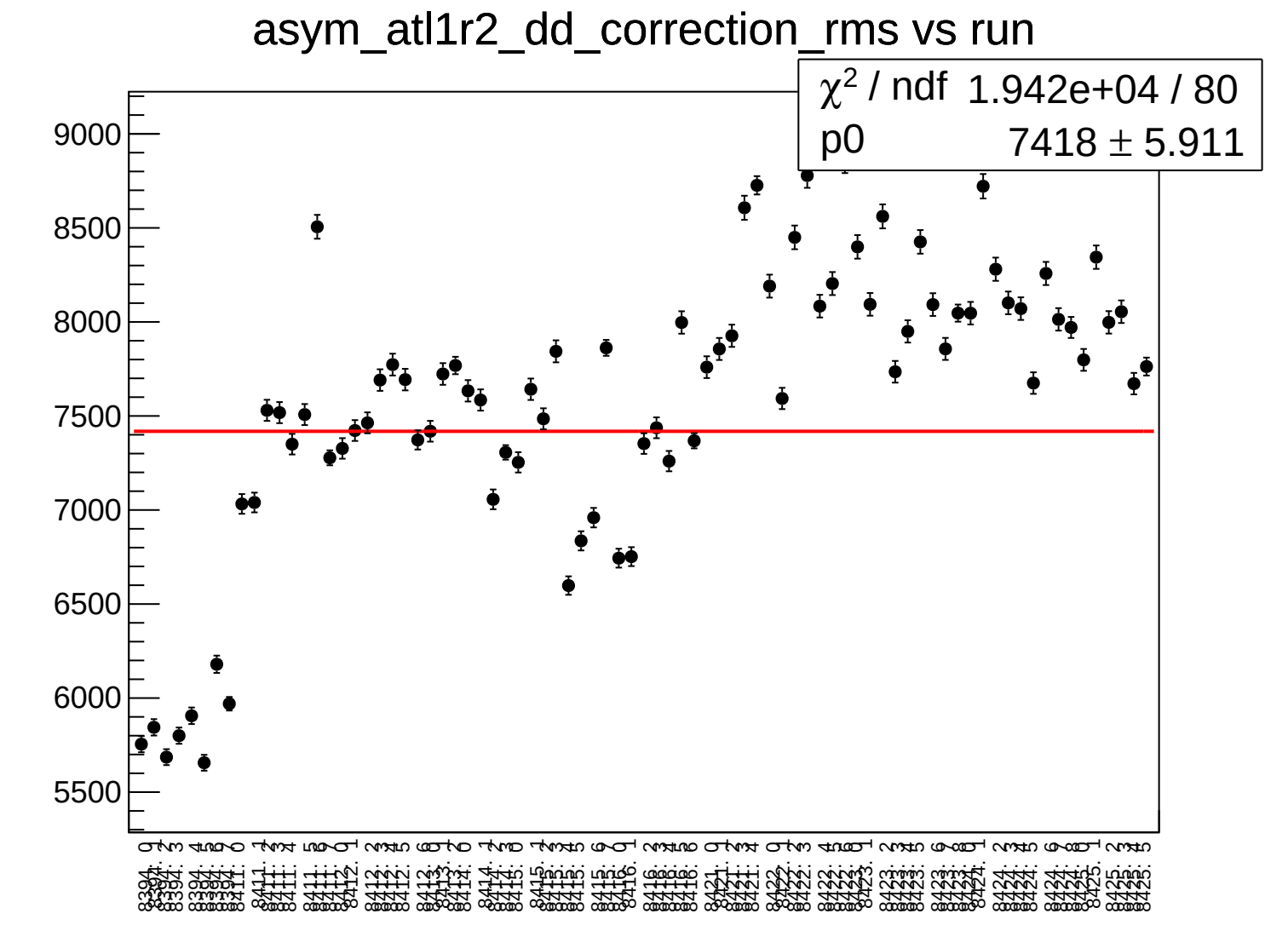

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 74.79 / 80
p0 698.4 ± 2058
×10³
pull
Entries 81
Mean 57.57
Std Dev 39.84

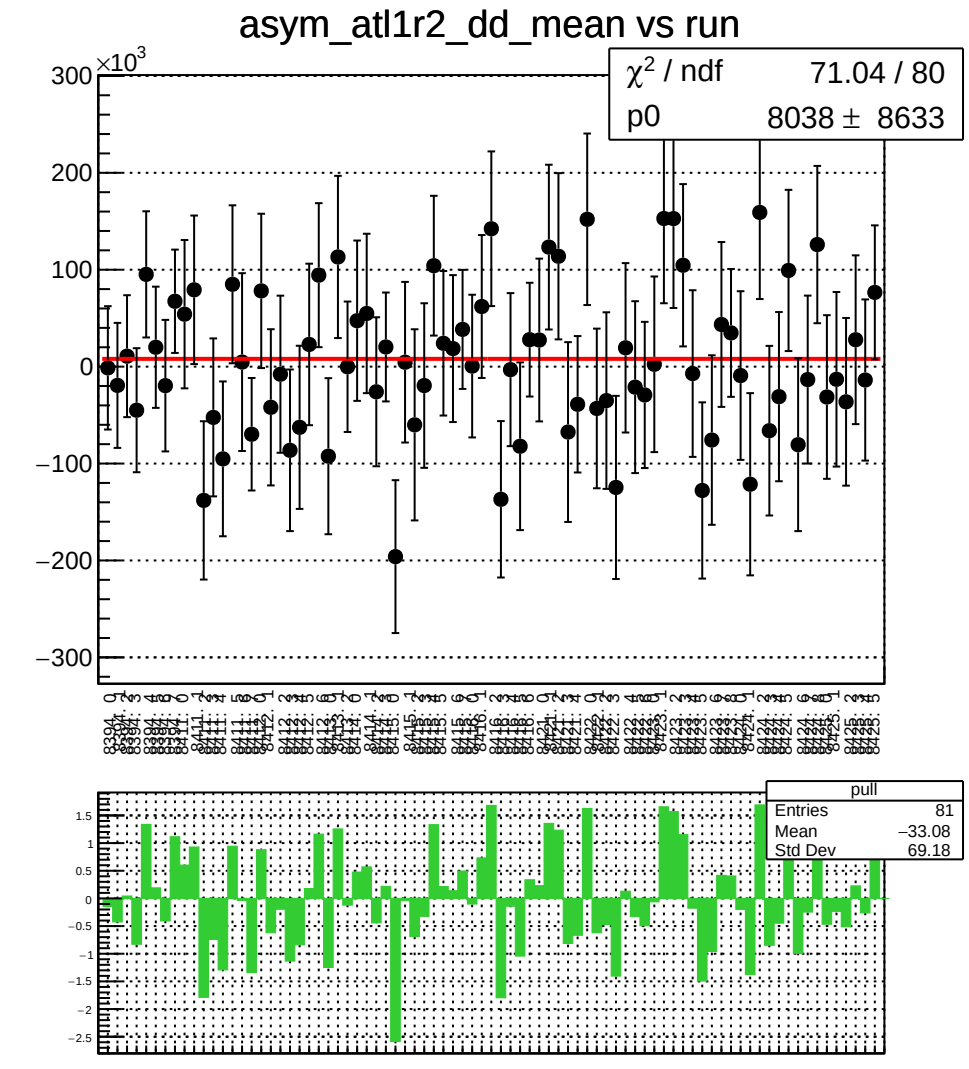

pull1D
Entries 81
Mean −0.03008
Std Dev 0.9604

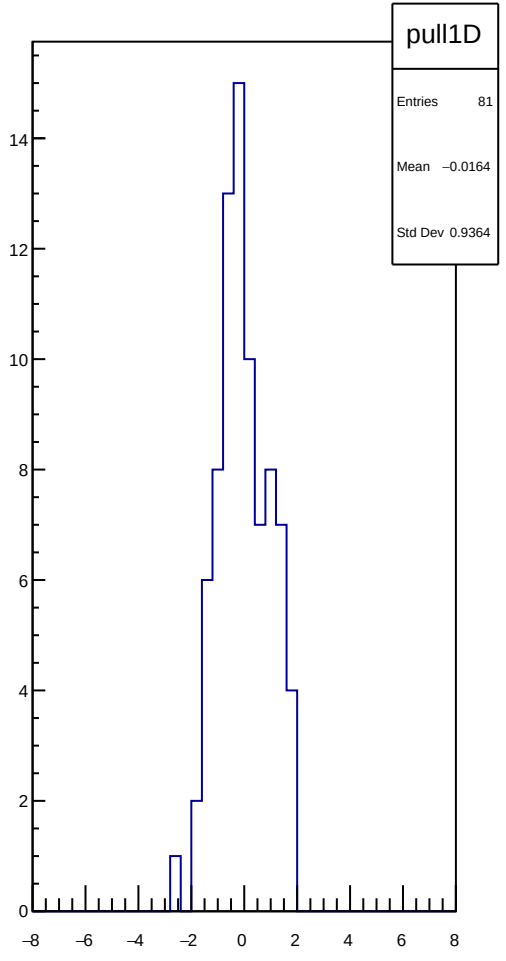

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 8299 / 80
p0 1833 ± 1.455
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

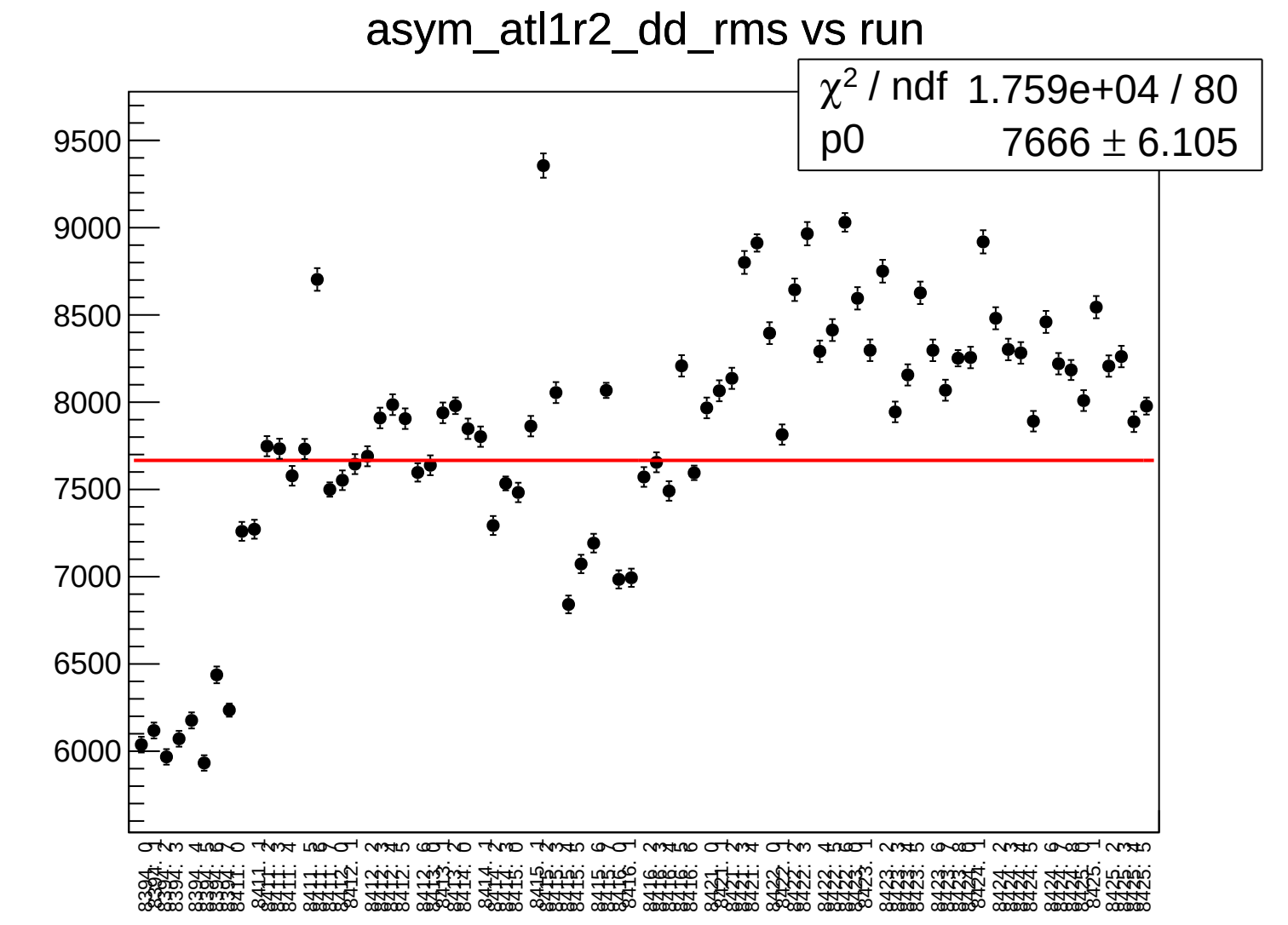

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 70.83 / 80
p0 −7293 ± 8359
pull
Entries 81
Mean −138.9
Std Dev 180.2

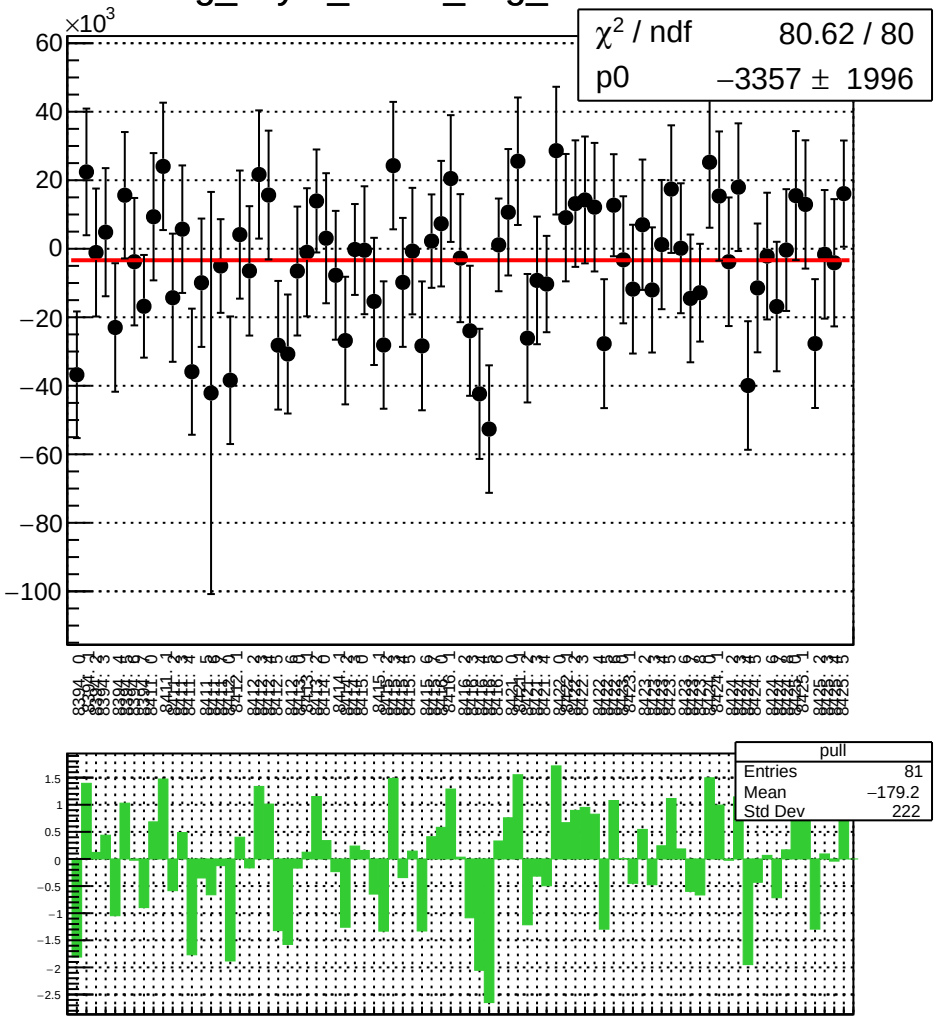

pull1D
Entries 81
Mean 0.007558
Std Dev 0.9351

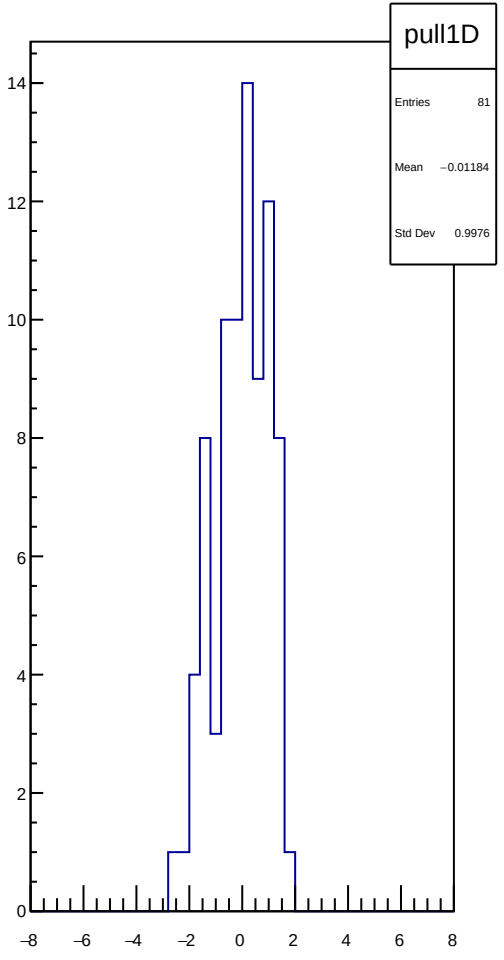

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1.942e+04 / 80
p0 7418 ± 5.911
9000
8500
8000
7500
7000
6500
6000
5500

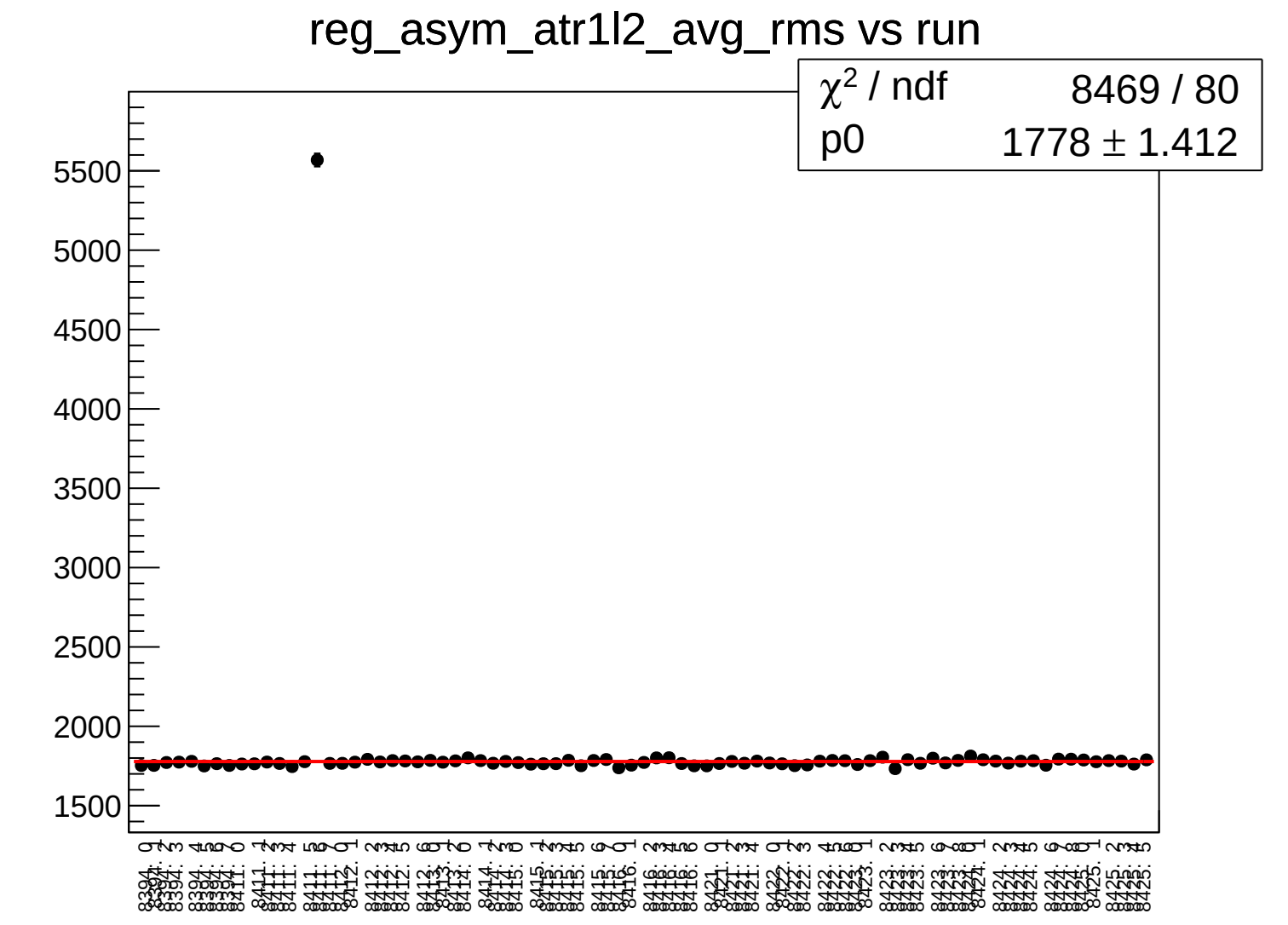

asym_atl1r2_dd_mean vs run
χ² / ndf 71.04 / 80
p0 8038 ± 8633
×10³
300
200
100
0
−100
−200
−300
pull
Entries 81
Mean −33.08
Std Dev 69.18
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

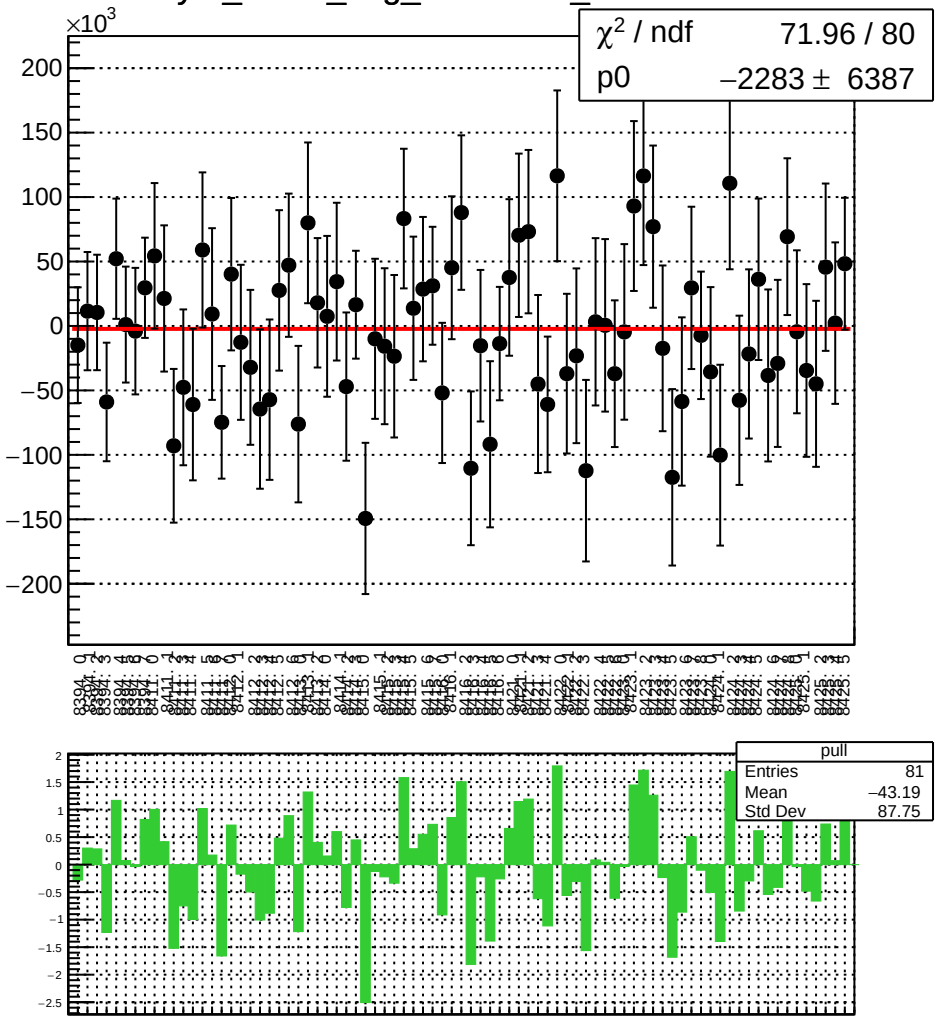

pull1D
Entries 81
Mean −0.0164
Std Dev 0.9364
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

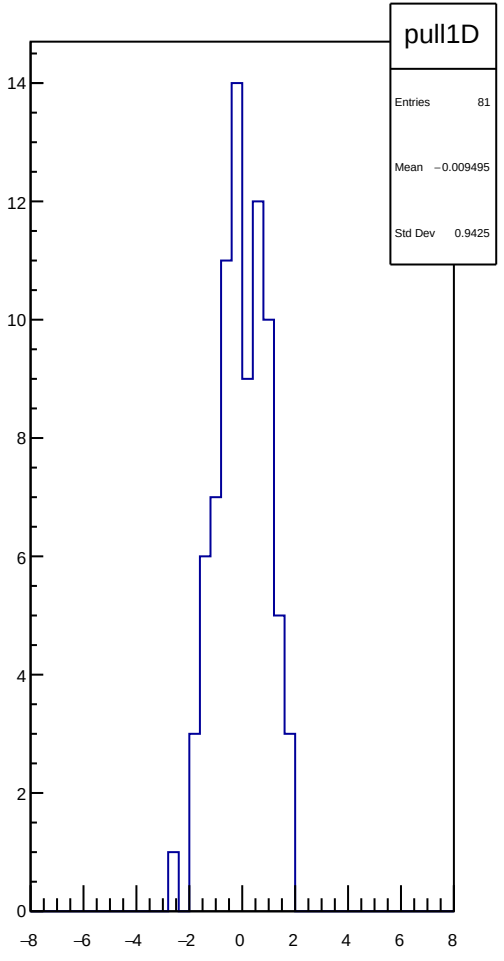

asym_atl1r2_dd_rms vs run
χ^2 / ndf 1.759e+04 / 80
p0 7666 ± 6.105
9500
9000
8500
8000
7500
7000
6500
6000

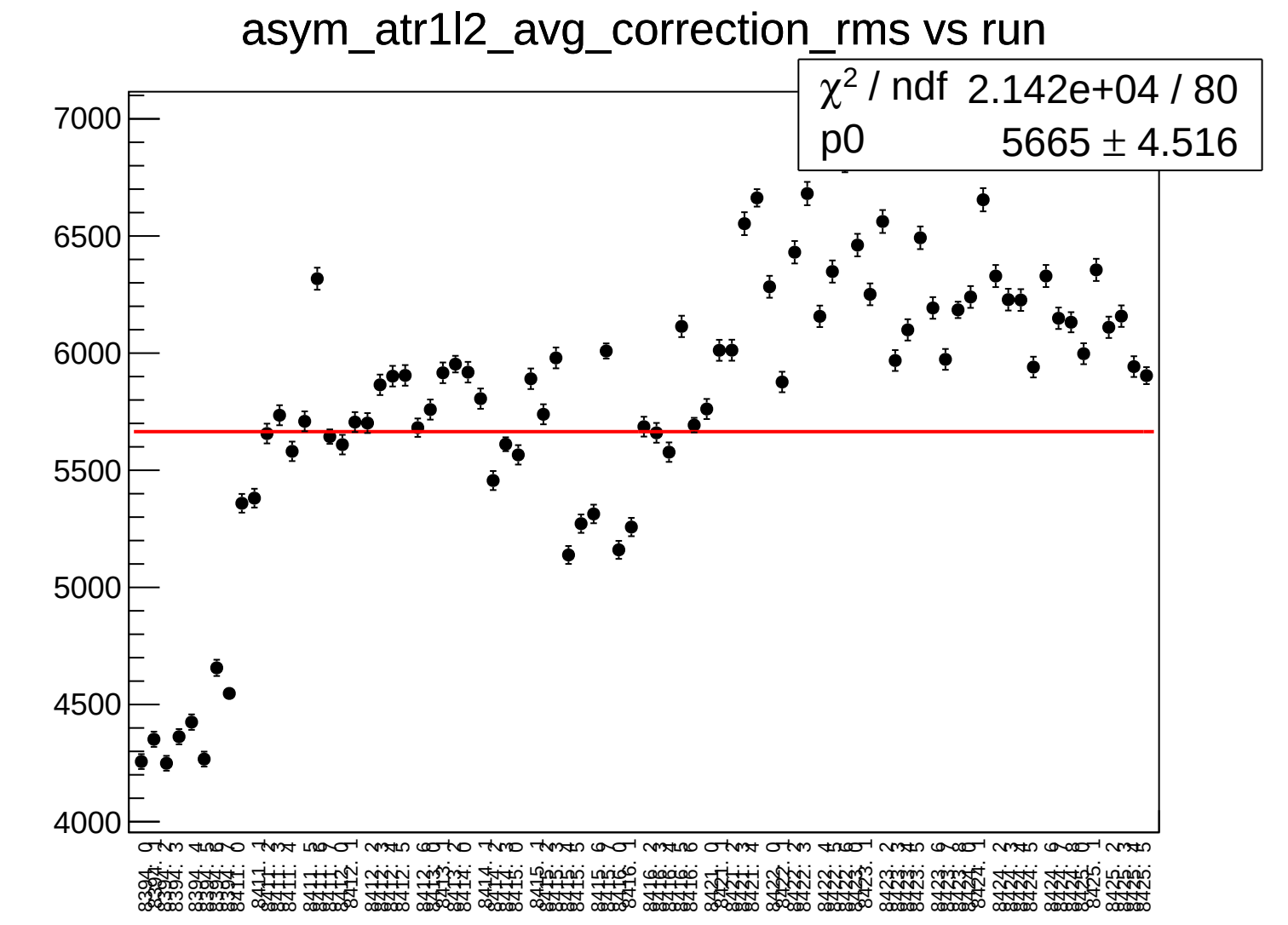

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 80.62 / 80
p0 −3357 ± 1996
×10³
pull
Entries 81
Mean −179.2
Std Dev 222

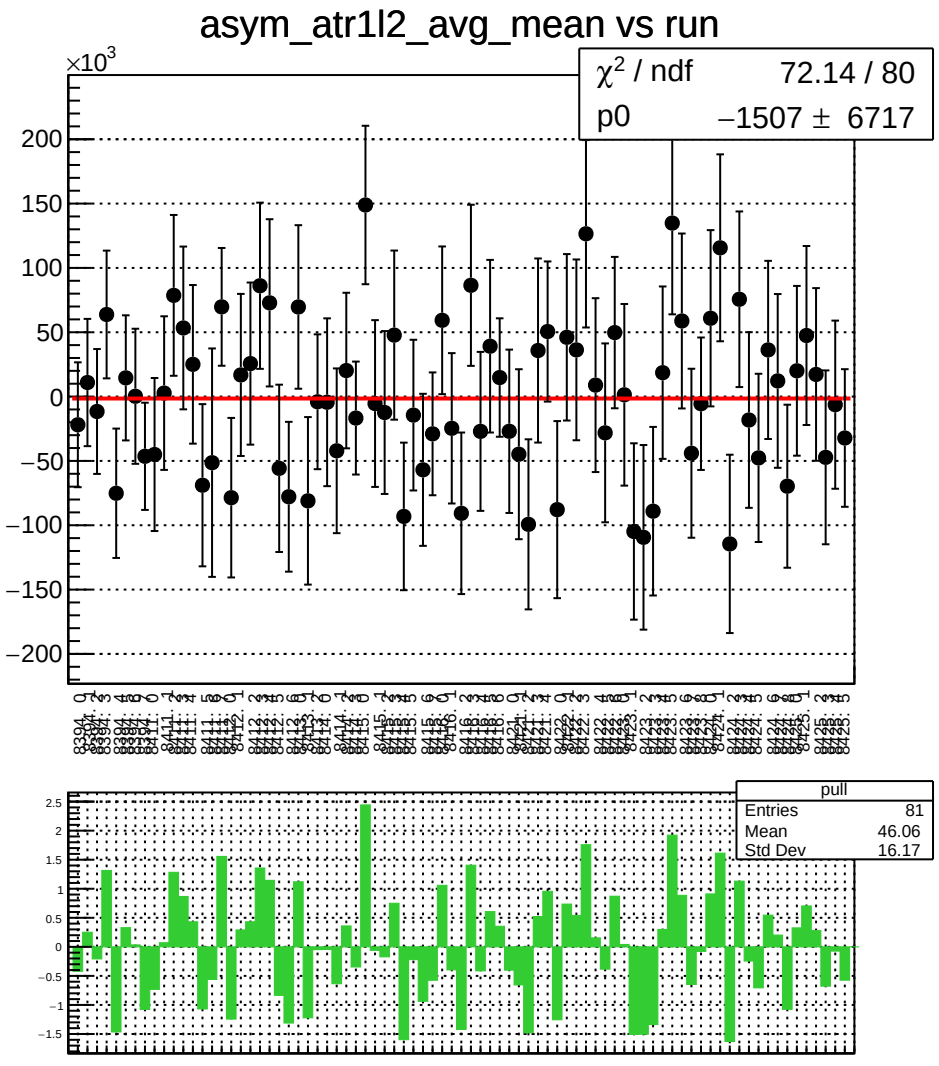

pull1D
Entries 81
Mean −0.01184
Std Dev 0.9976

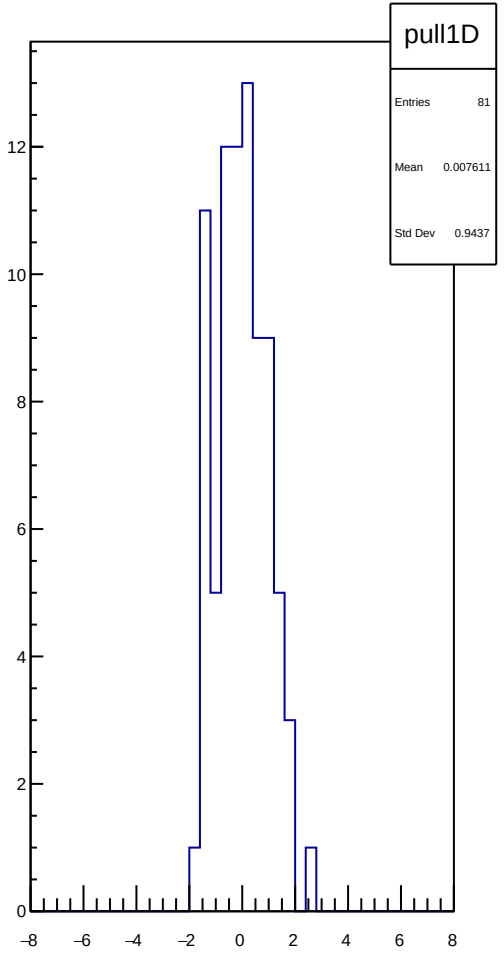

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 8469 / 80
p0 1778 ± 1.412
5500
5000
4500
4000
3500
3000
2500
2000
1500

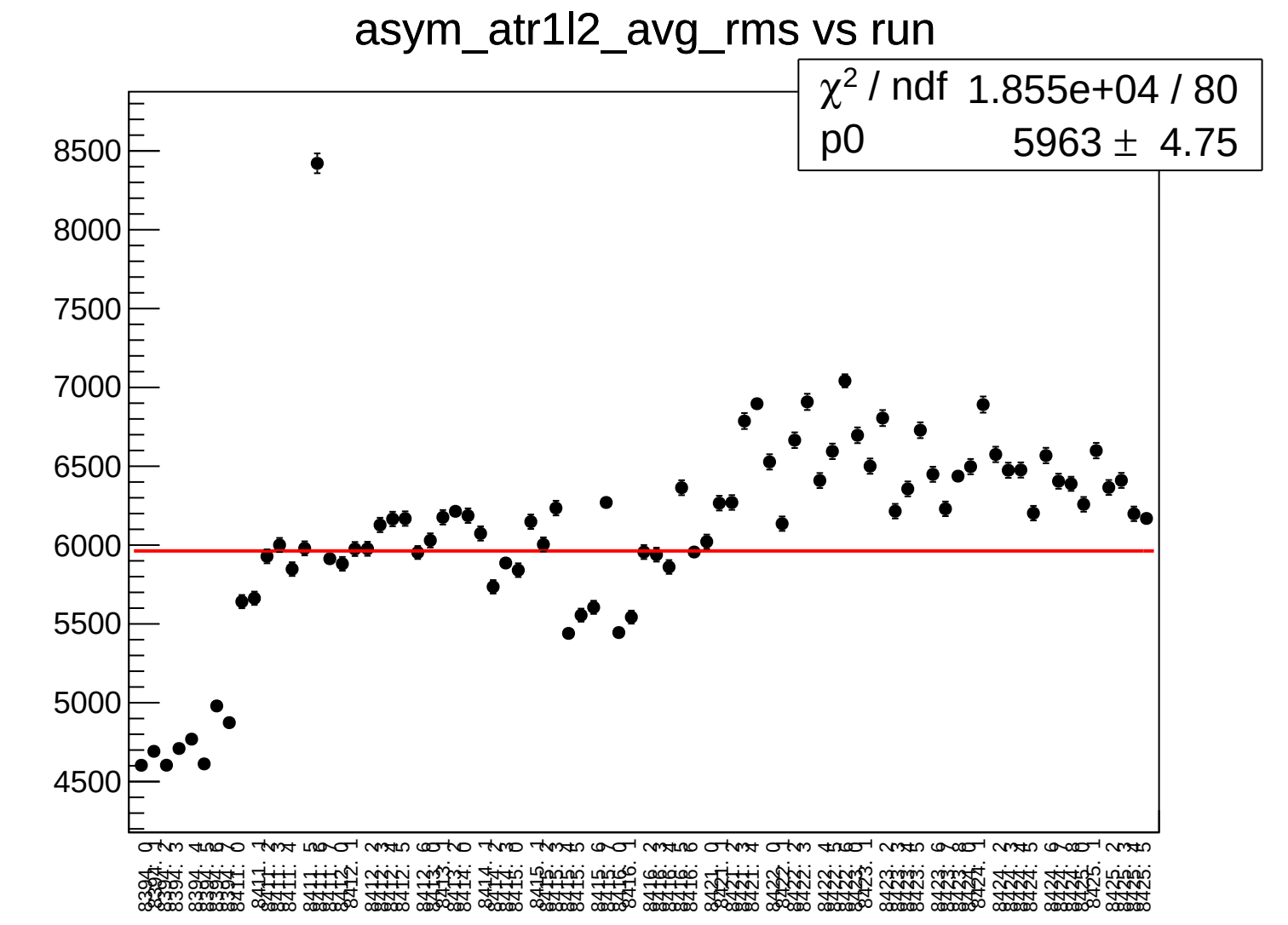

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 71.96 / 80
p0 −2283 ± 6387
pull
Entries 81
Mean −43.19
Std Dev 87.75

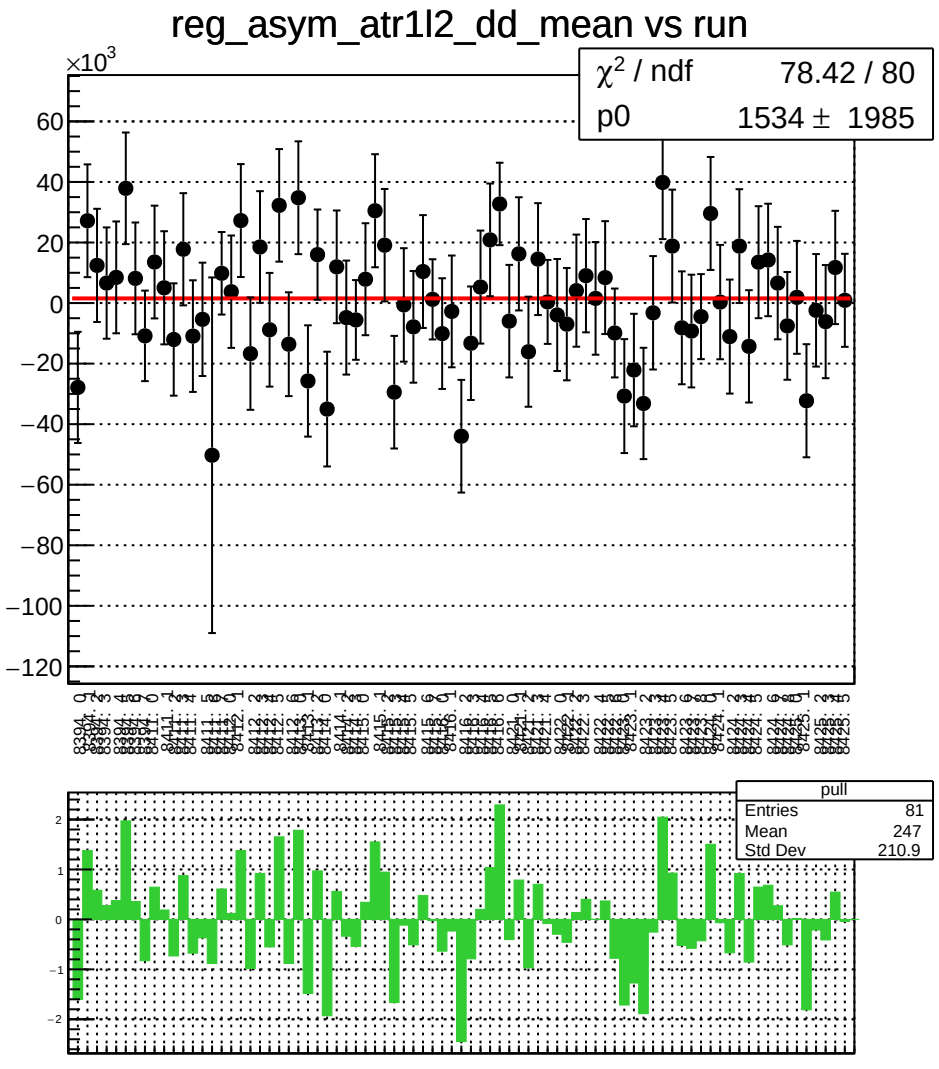

pull1D
Entries 81
Mean −0.009495
Std Dev 0.9425

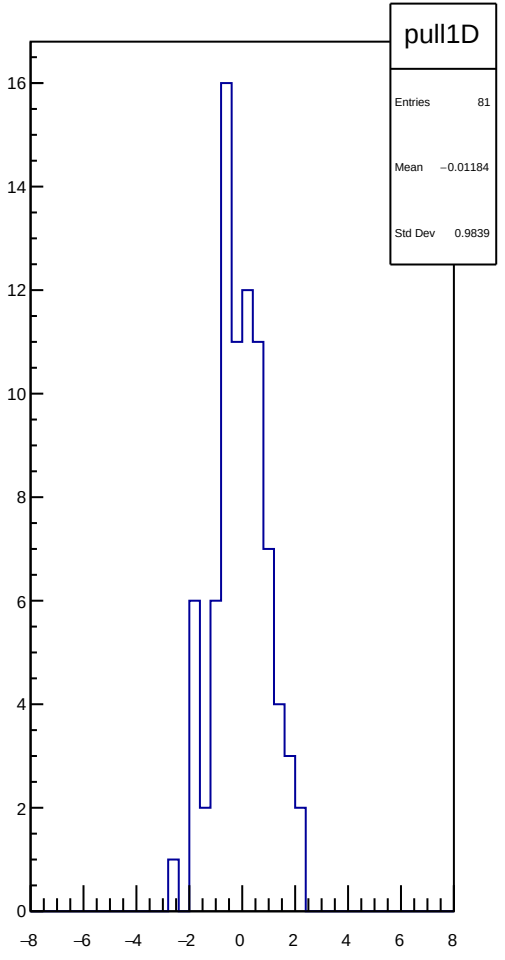

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 2.142e+04 / 80
p0 5665 ± 4.516
7000
6500
6000
5500
5000
4500
4000

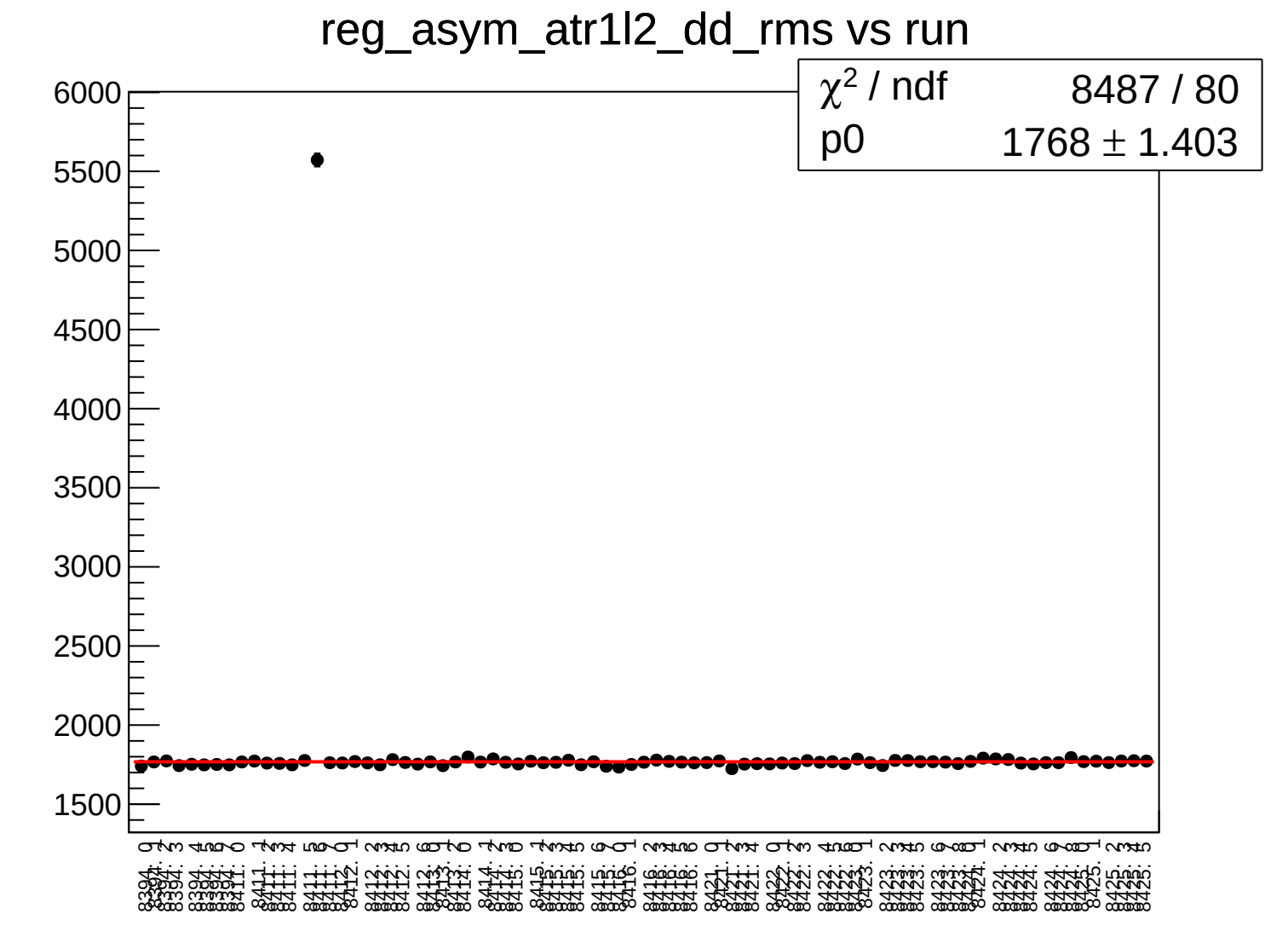

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 72.14 / 80
p0 −1507 ± 6717
pull
Entries 81
Mean 46.06
Std Dev 16.17

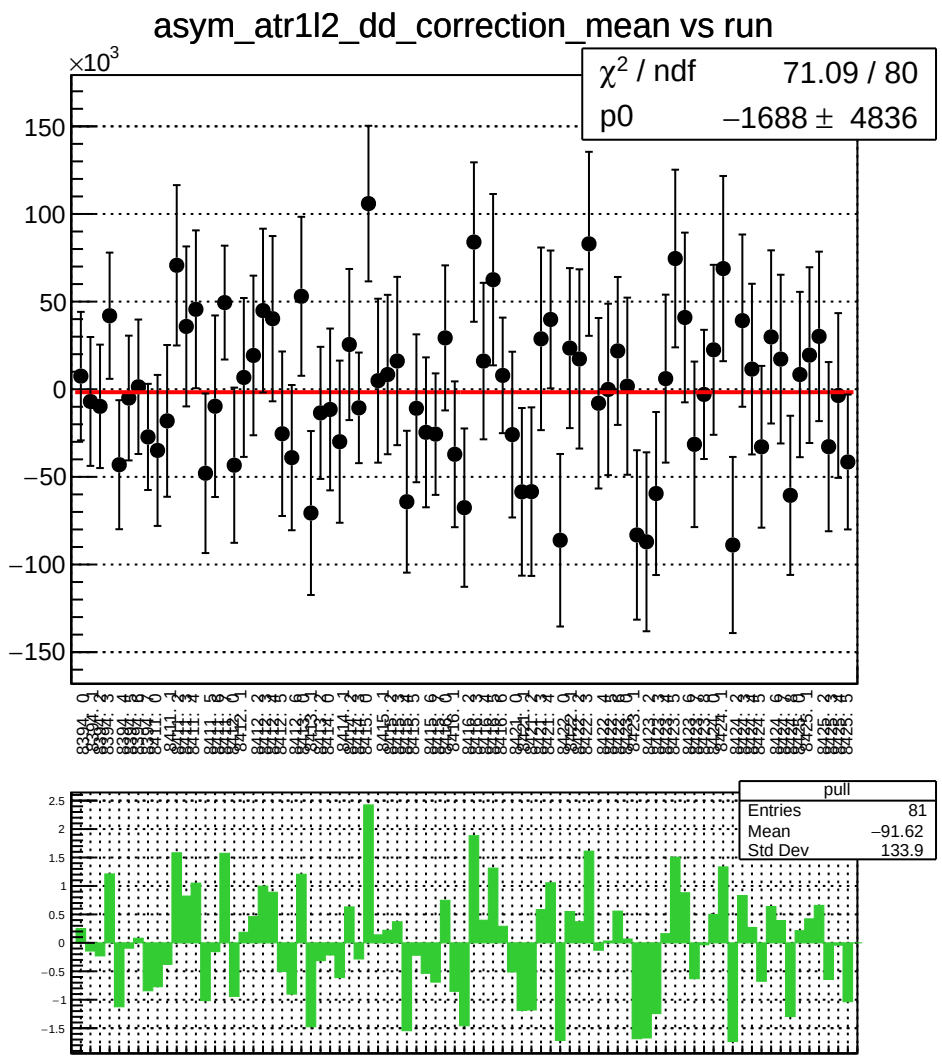

pull1D
Entries 81
Mean 0.007611
Std Dev 0.9437

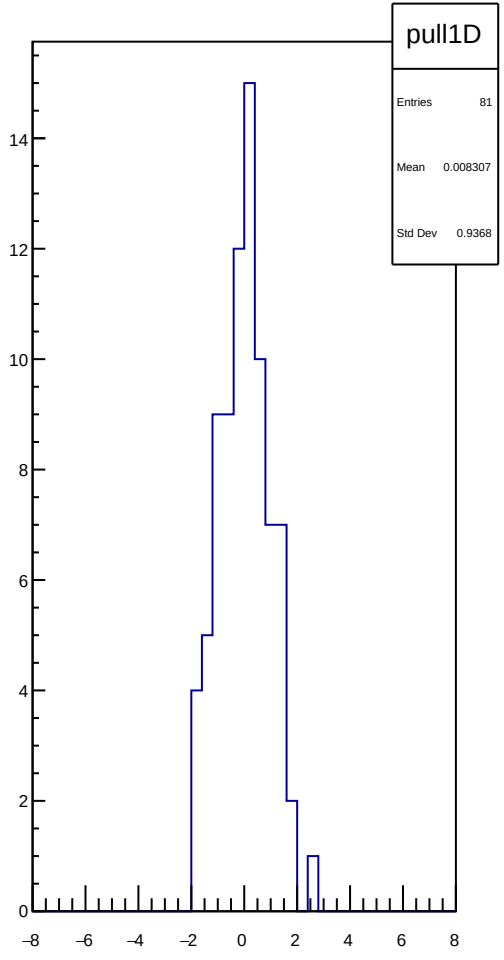

asym_atr1l2_avg_rms vs run
χ² / ndf 1.855e+04 / 80
p0 5963 ± 4.75
8500
8000
7500
7000
6500
6000
5500
5000
4500

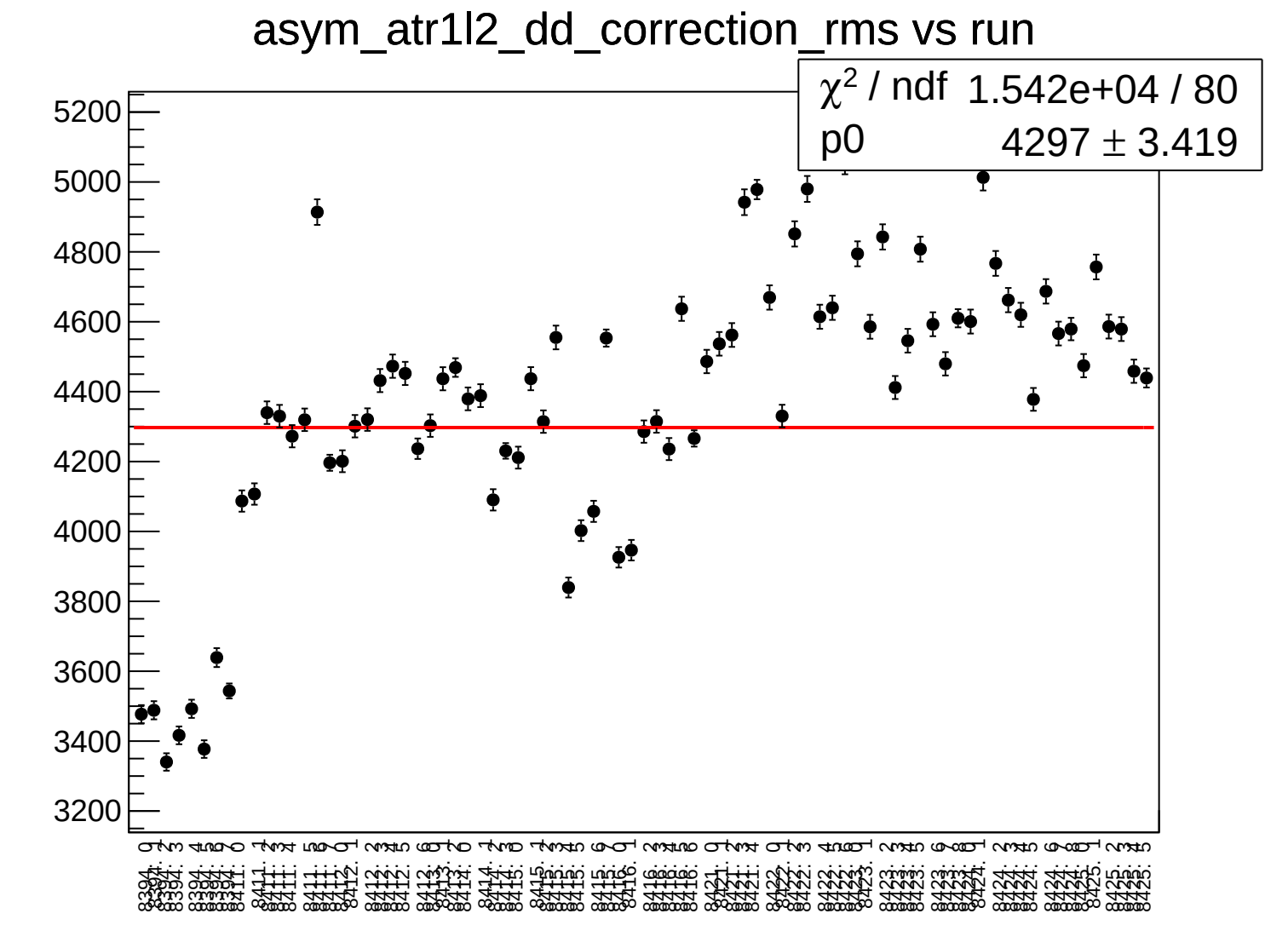

reg_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 78.42 / 80
p0 1534 ± 1985
pull
Entries 81
Mean 247
Std Dev 210.9

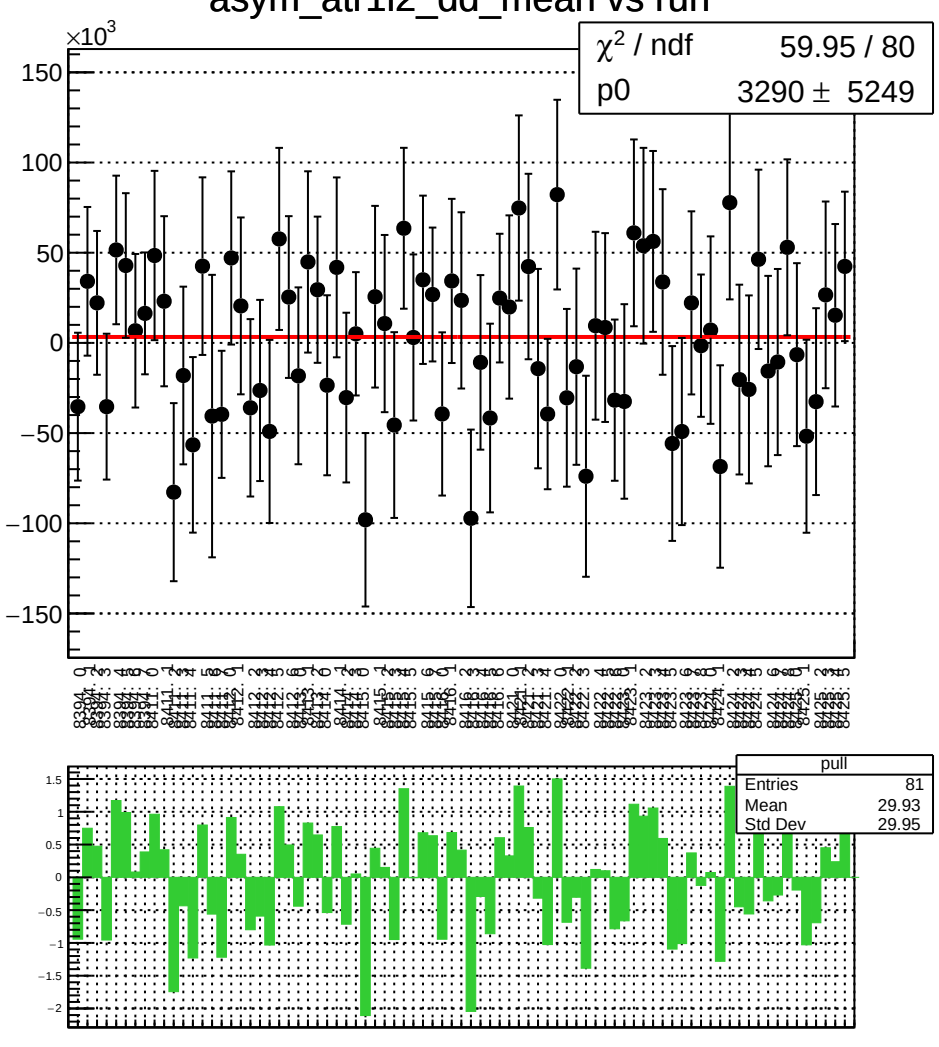

pull1D
Entries 81
Mean −0.01184
Std Dev 0.9839

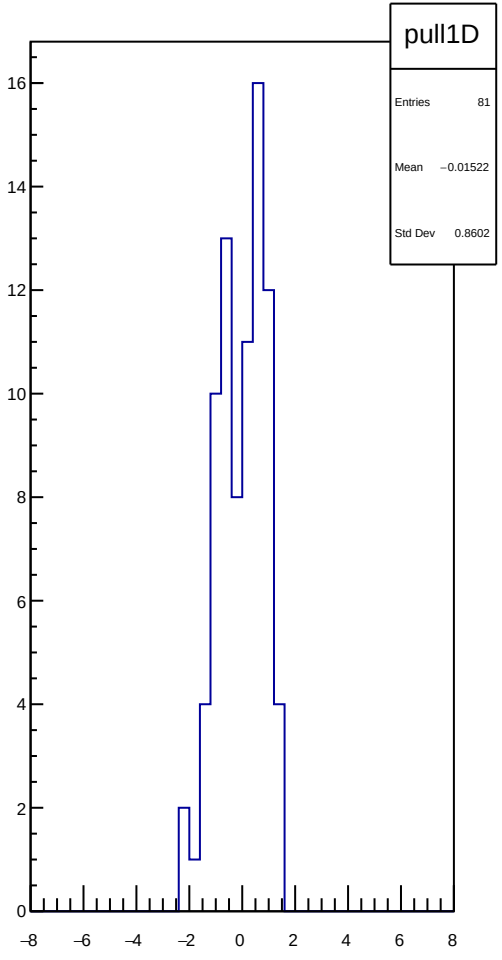

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 8487 / 80
p0 1768 ± 1.403
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

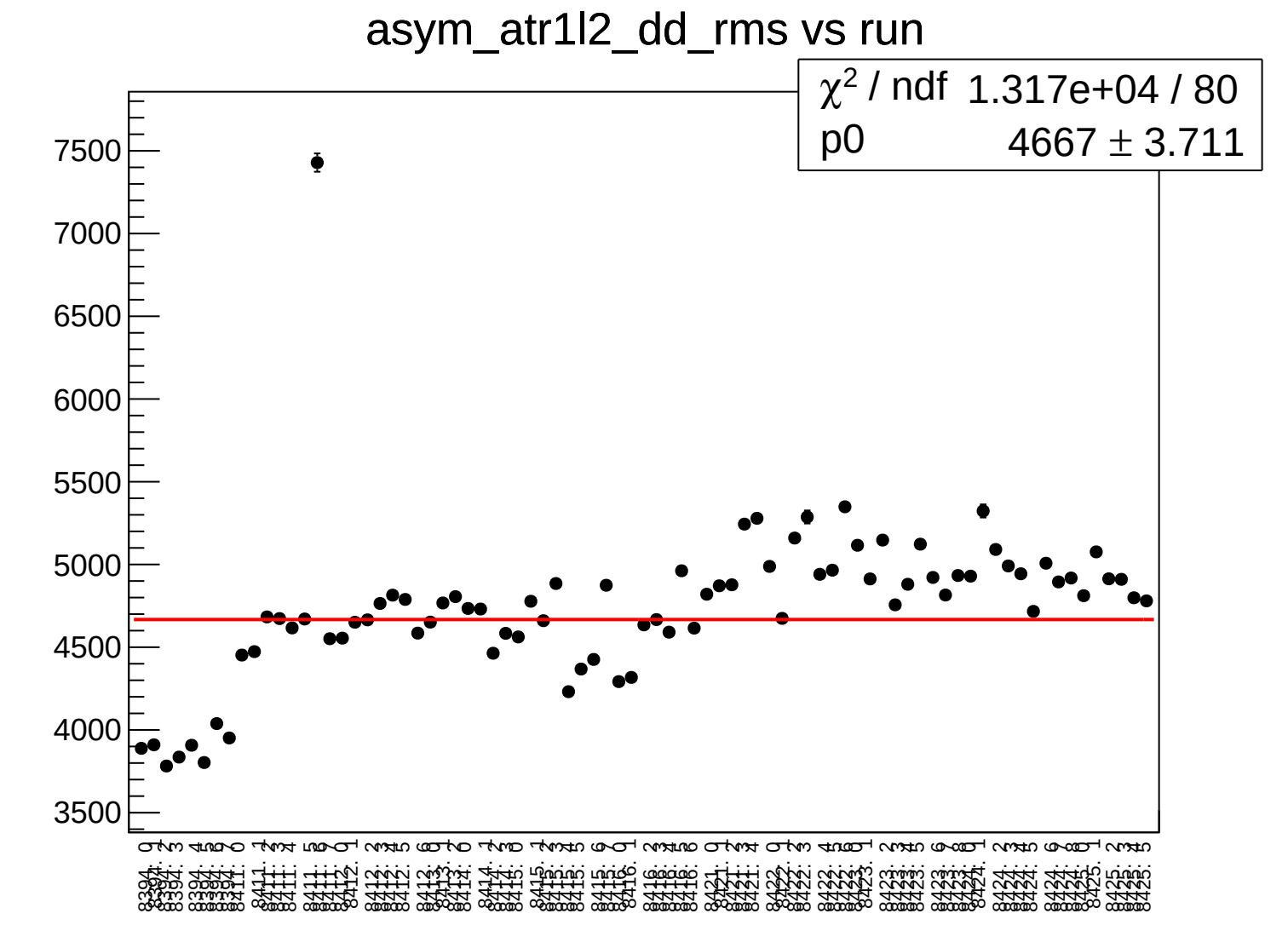

asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 71.09 / 80
p0 −1688 ± 4836
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −91.62
Std Dev 133.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

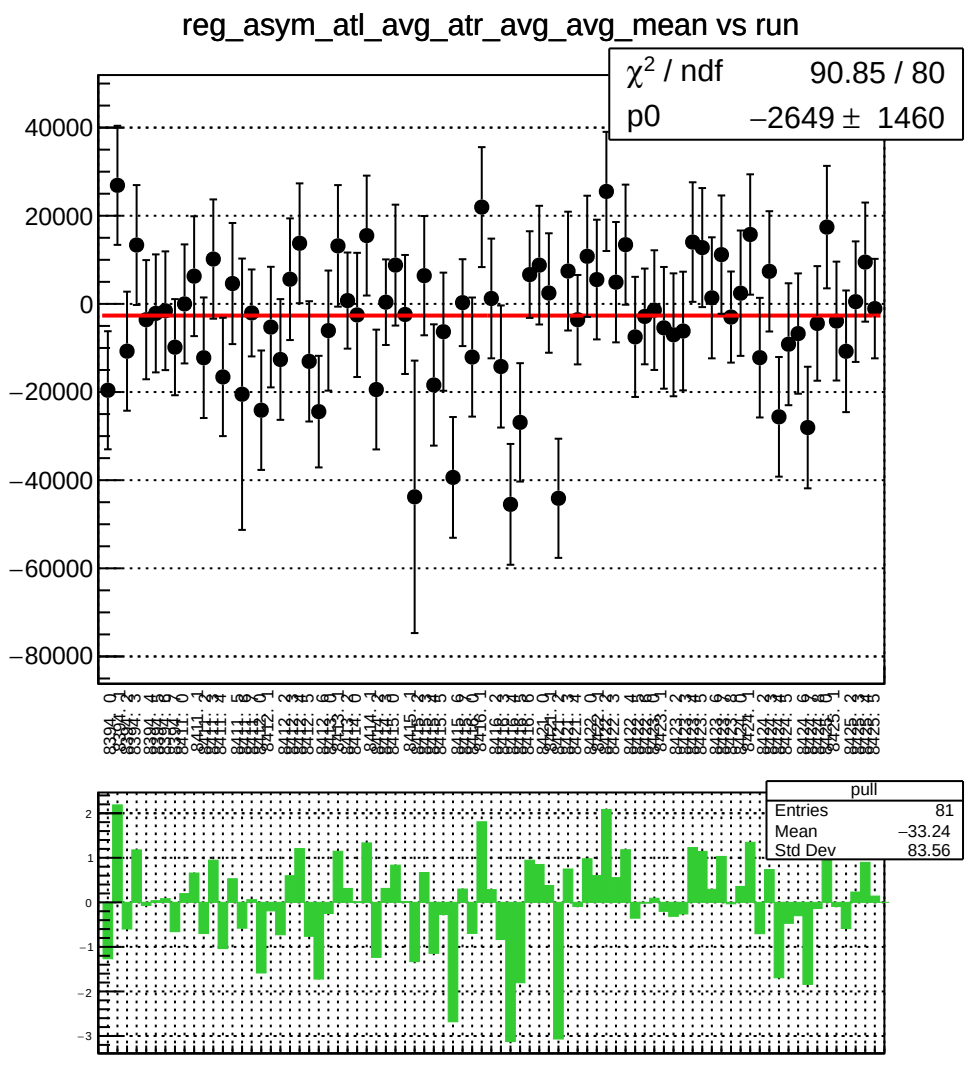

pull1D
Entries 81
Mean 0.008307
Std Dev 0.9368
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

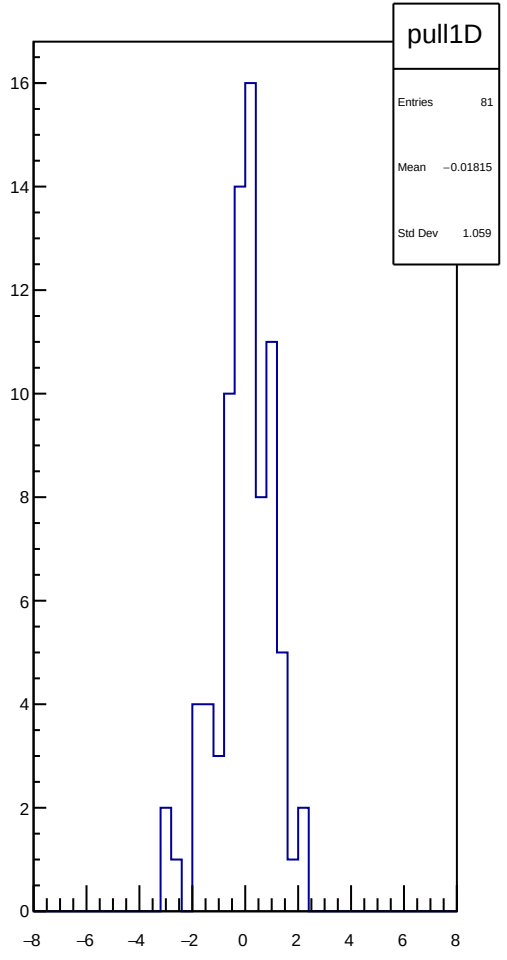

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 1.542e+04 / 80
p0 4297 ± 3.419
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

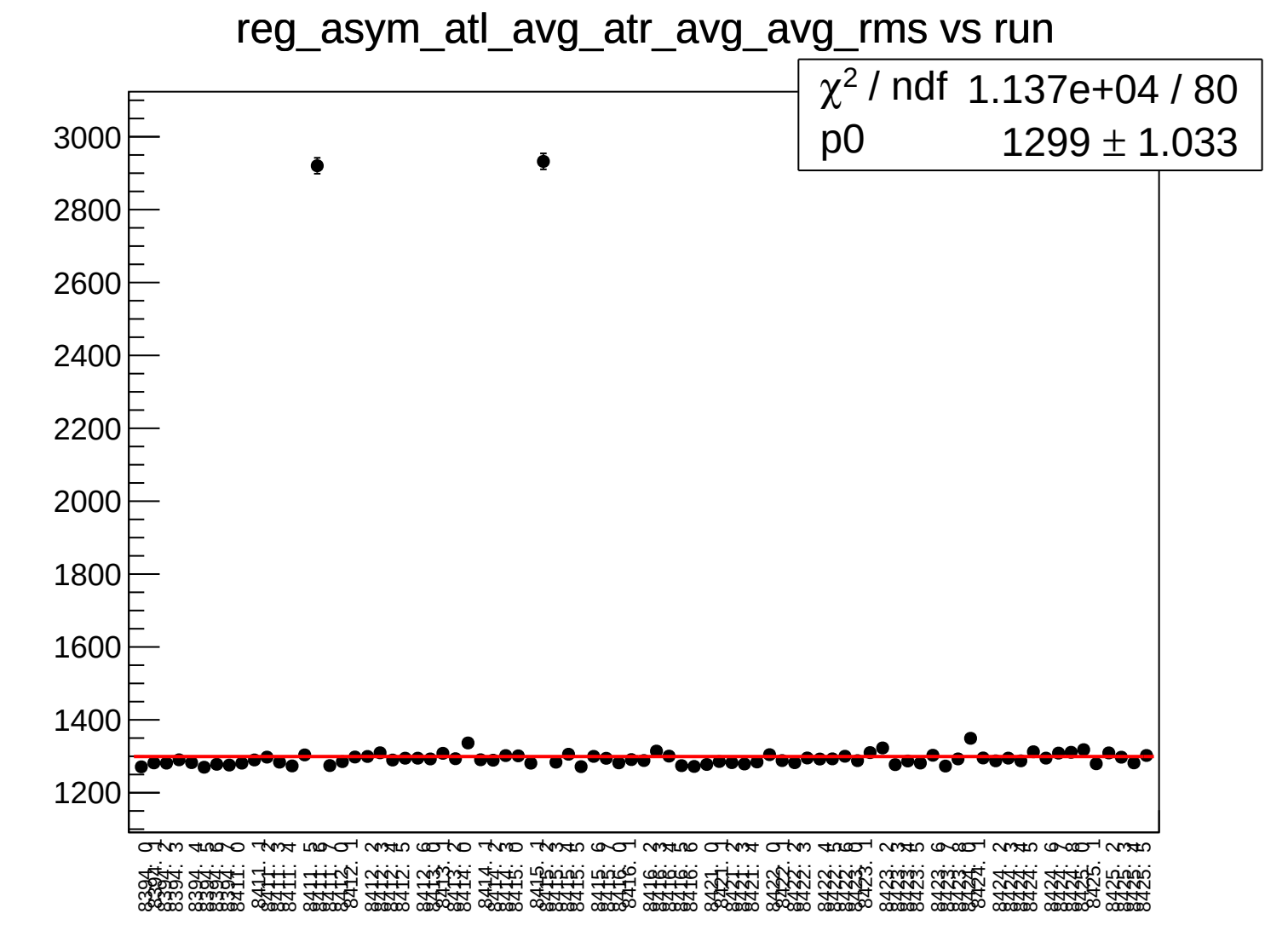

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 59.95 / 80
p0 3290 ± 5249
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean 29.93
Std Dev 29.95
1.5
1
0.5
0
−0.5
−1
−1.5
−2

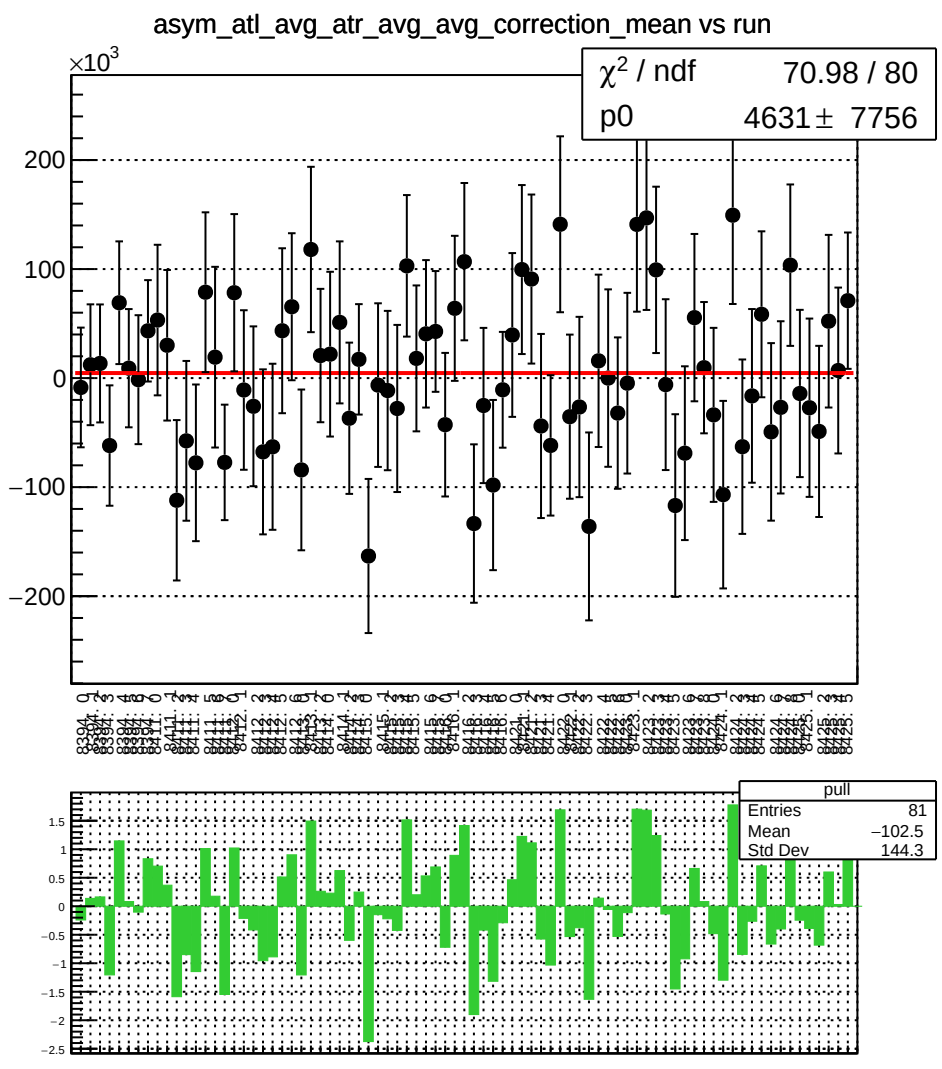

pull1D
Entries 81
Mean −0.01522
Std Dev 0.8602
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

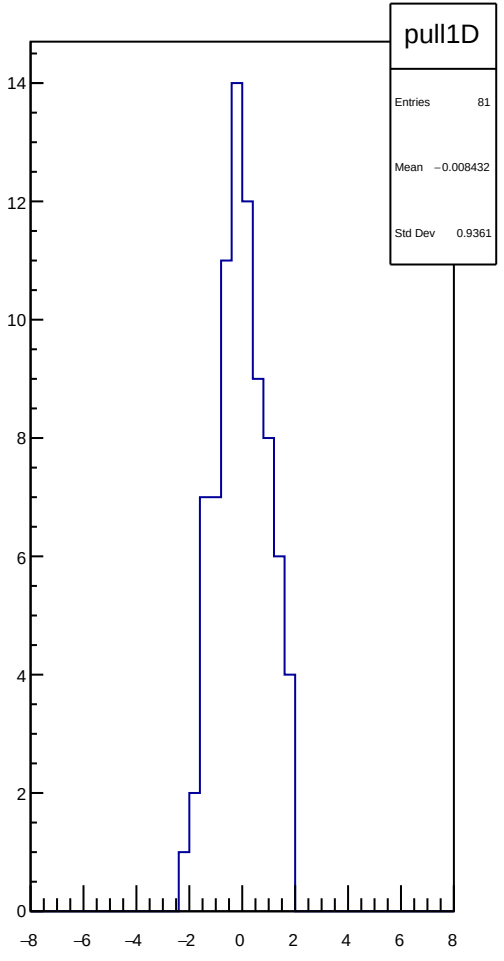

asym_atr1l2_dd_rms vs run
χ^2 / ndf 1.317e+04 / 80
p0 4667 ± 3.711
7500
7000
6500
6000
5500
5000
4500
4000
3500

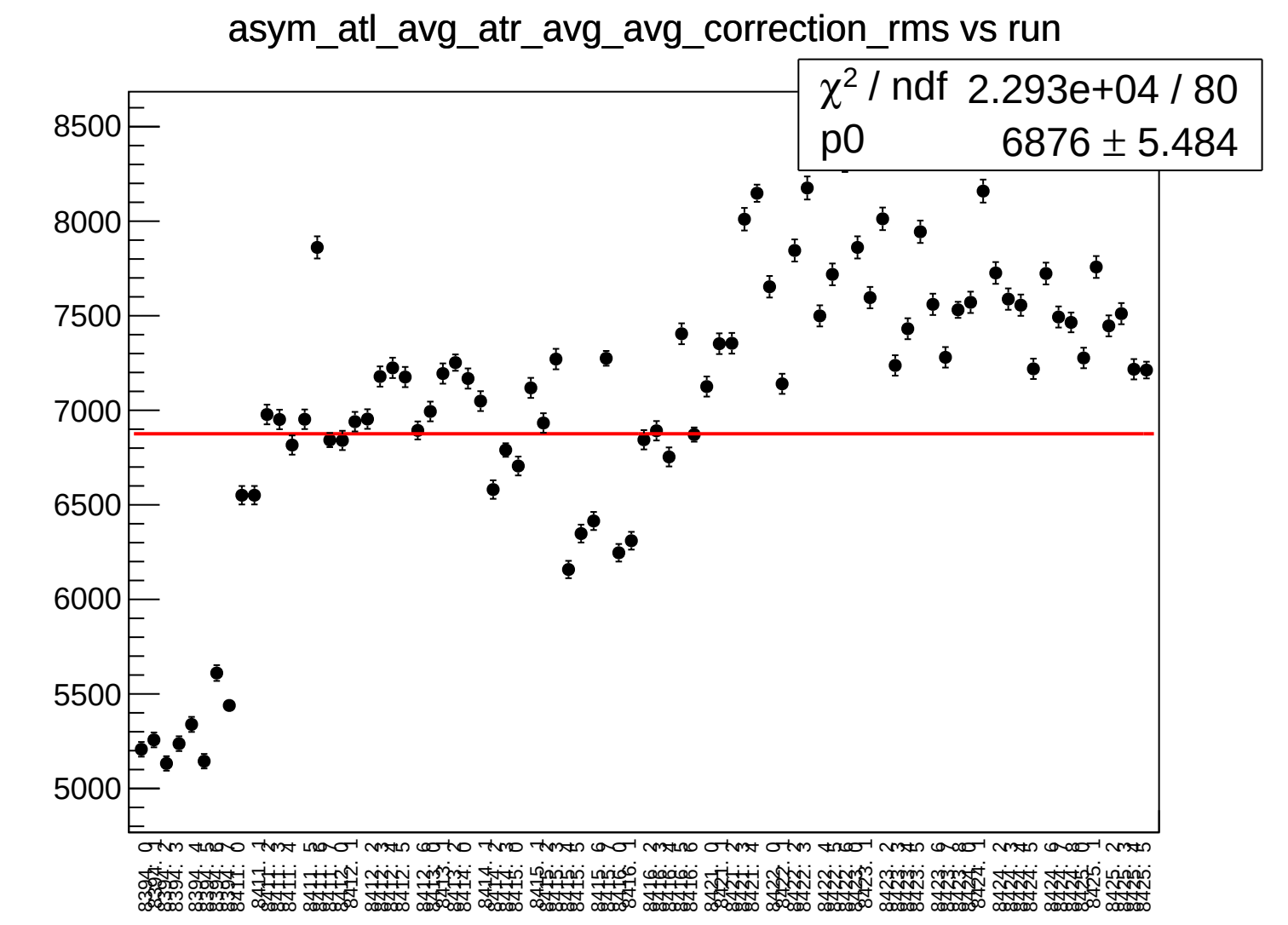

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.85 / 80
p0 −2649 ± 1460
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −33.24
Std Dev 83.56
2
1
0
−1
−2
−3

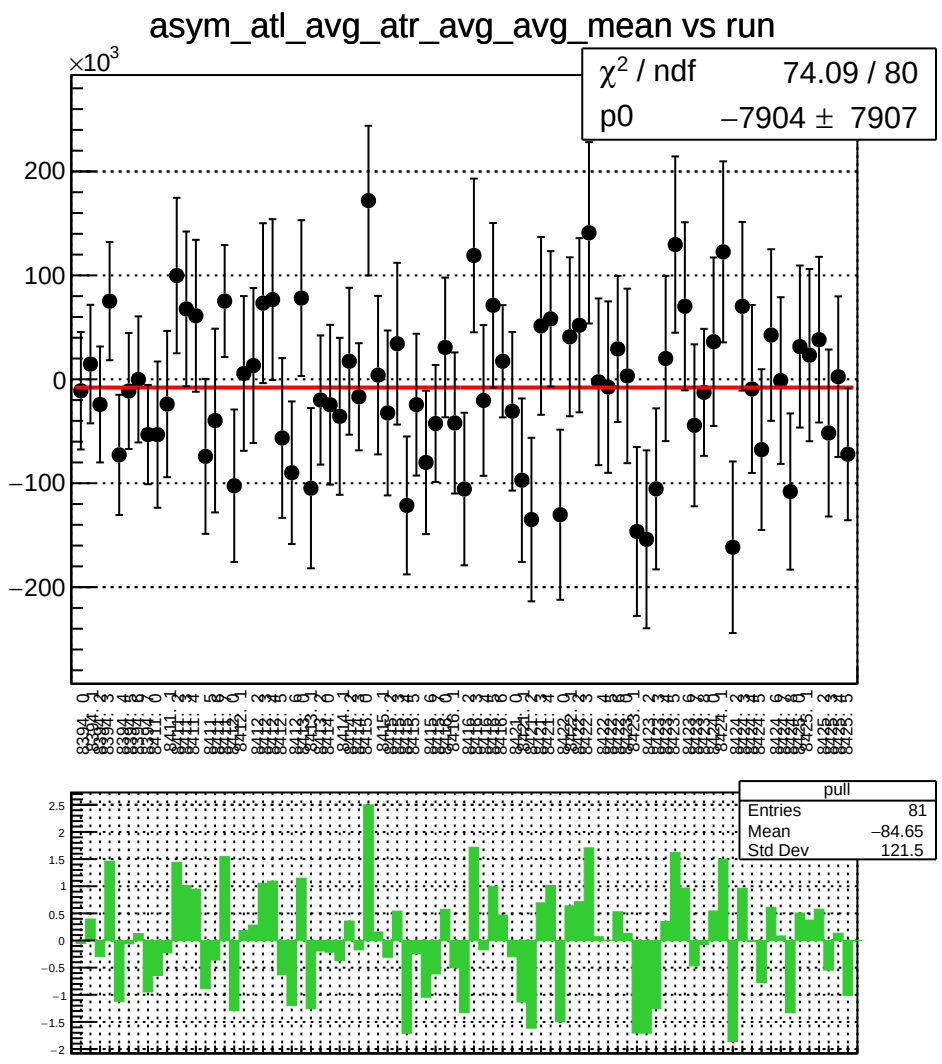

pull1D
Entries 81
Mean −0.01815
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

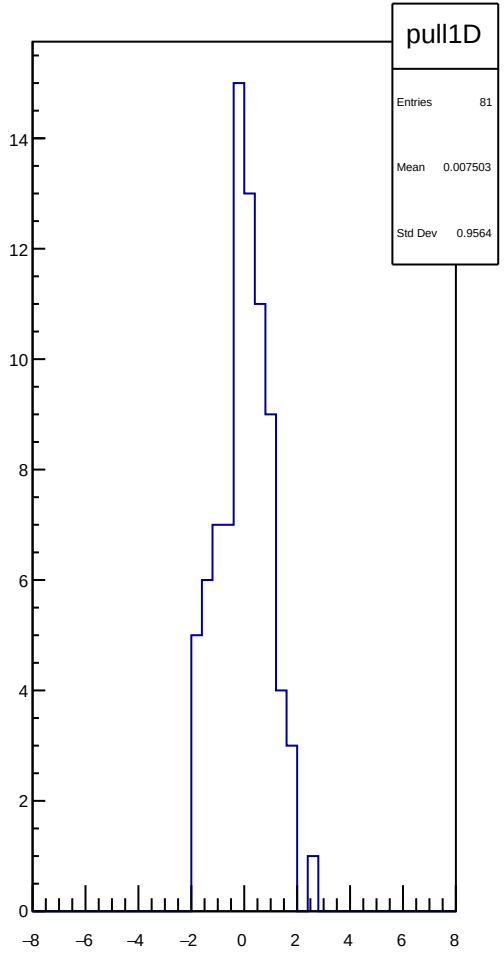

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.137e+04 / 80
p0 1299 ± 1.033
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

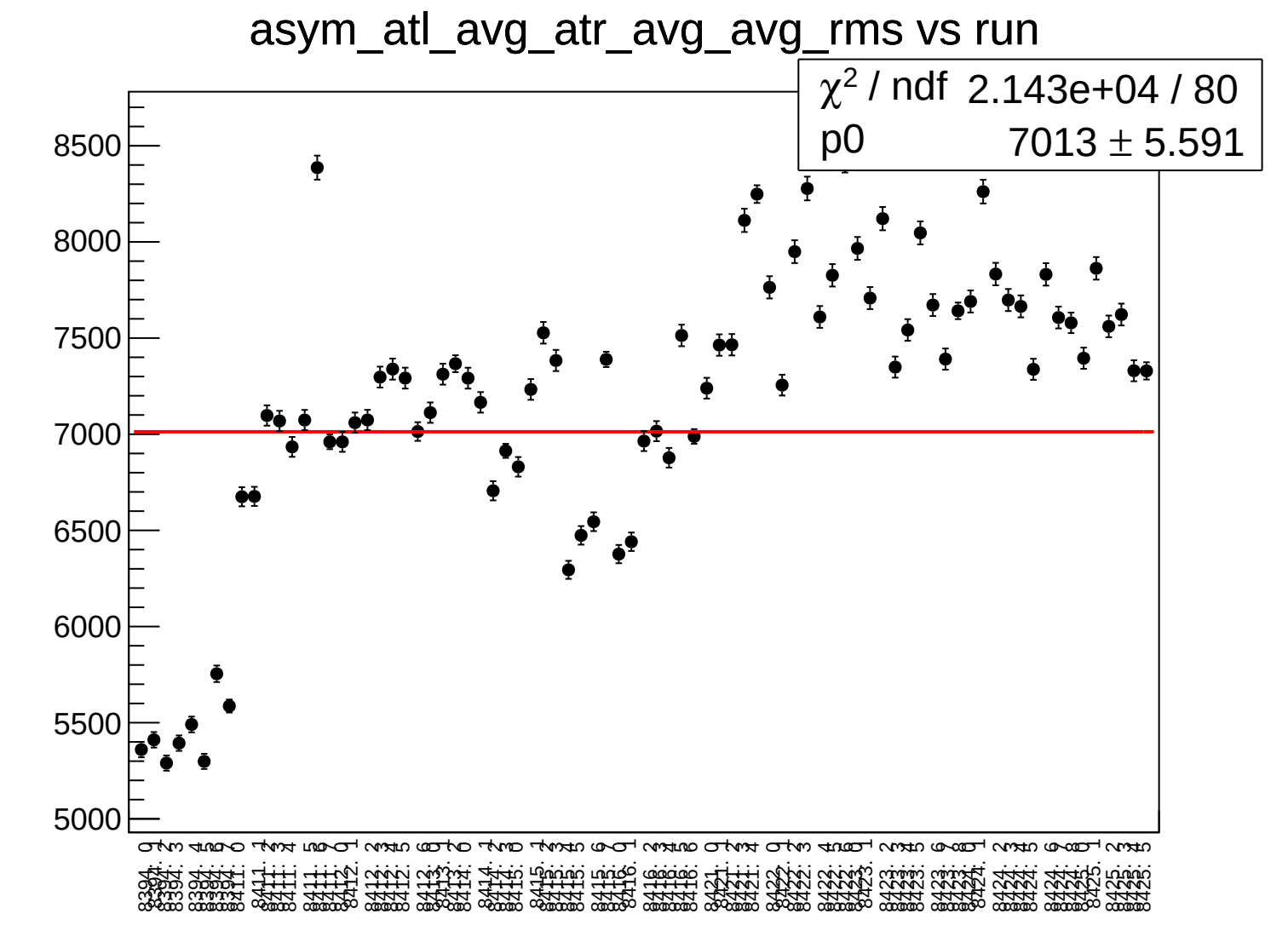

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ^2 / ndf 70.98 / 80
p0 4631 ± 7756
200
100
0
−100
−200
pull
Entries 81
Mean −102.5
Std Dev 144.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

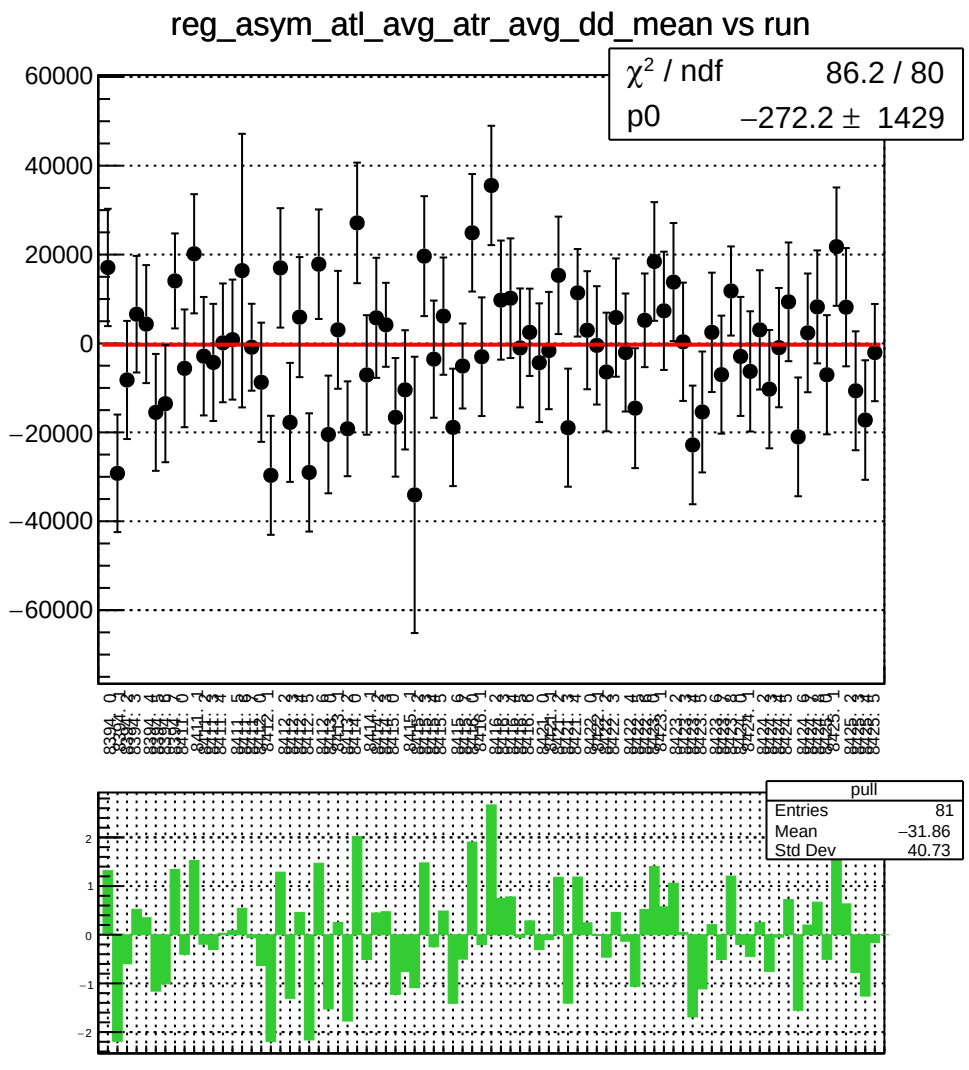

pull1D
Entries 81
Mean −0.008432
Std Dev 0.9361
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

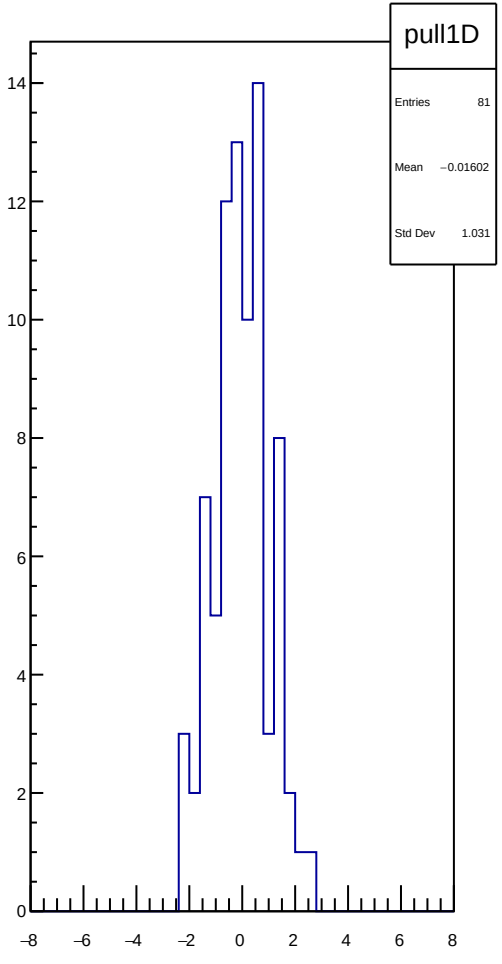

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 2.293e+04 / 80
p0 6876 ± 5.484
8500
8000
7500
7000
6500
6000
5500
5000

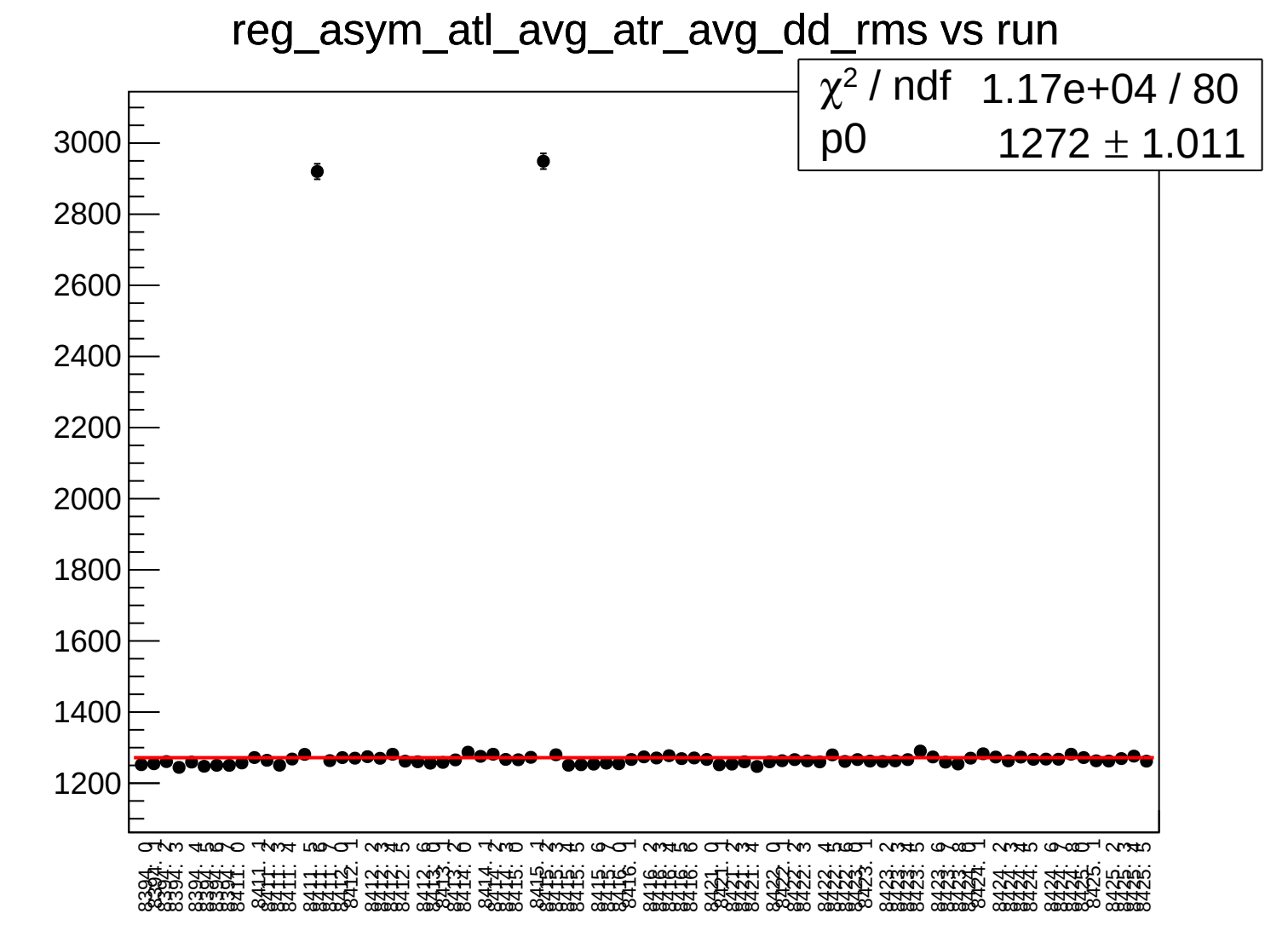

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 74.09 / 80
p0 −7904 ± 7907
200
100
0
−100
−200
pull
Entries 81
Mean −84.65
Std Dev 121.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

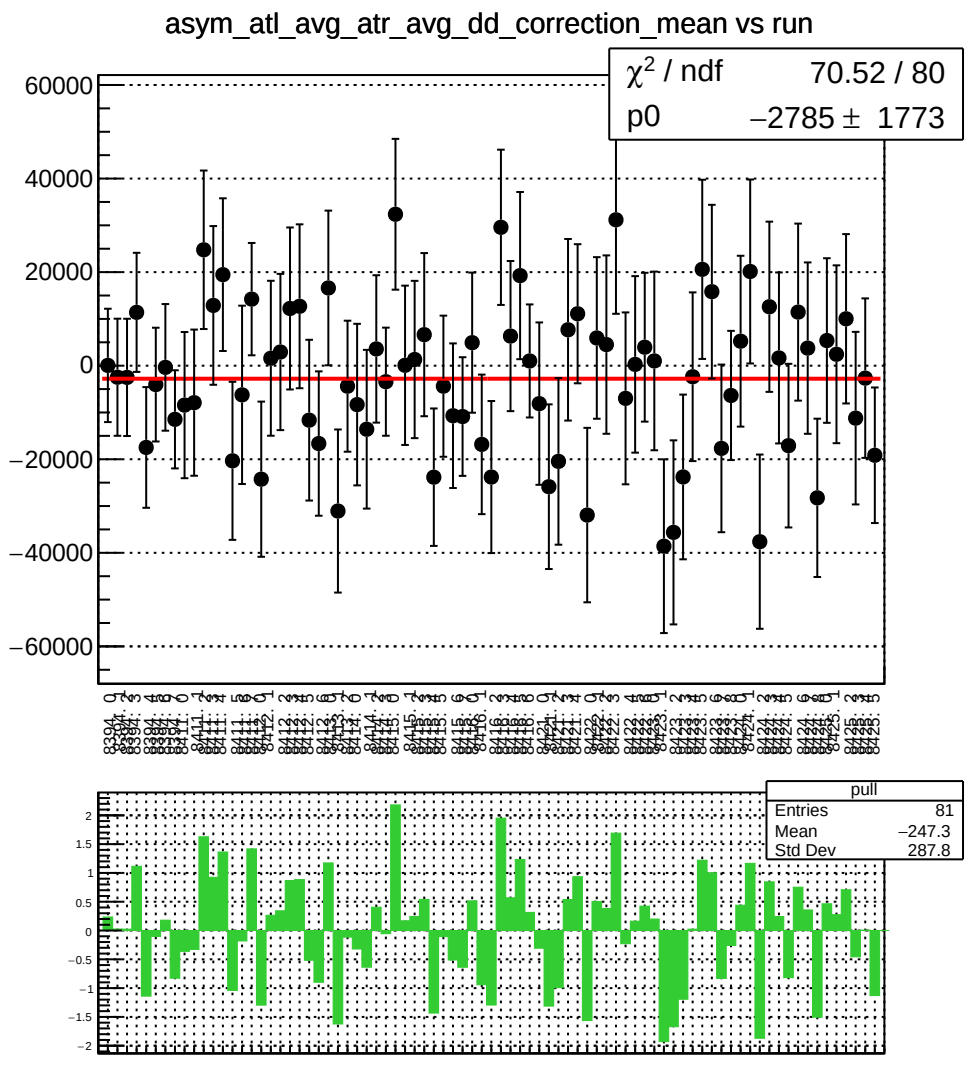

pull1D
Entries 81
Mean 0.007503
Std Dev 0.9564
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

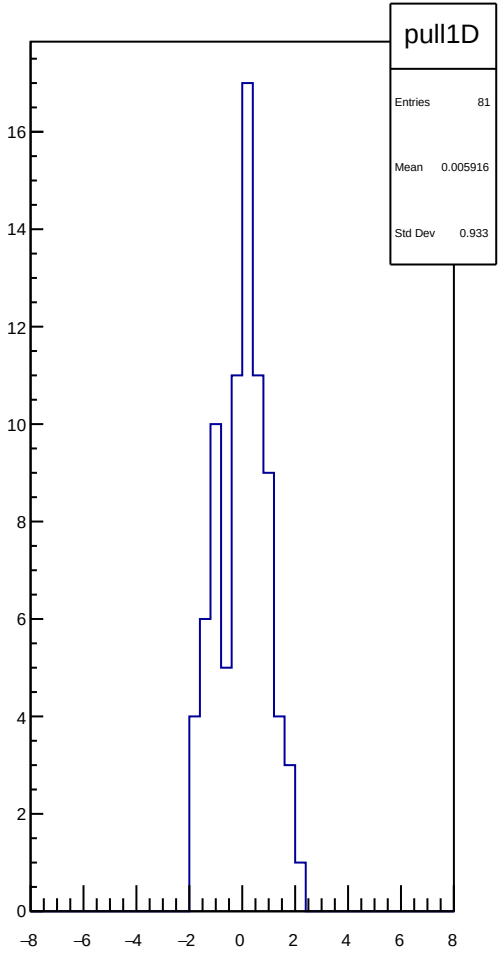

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2.143e+04 / 80
p0 7013 ± 5.591
8500
8000
7500
7000
6500
6000
5500
5000

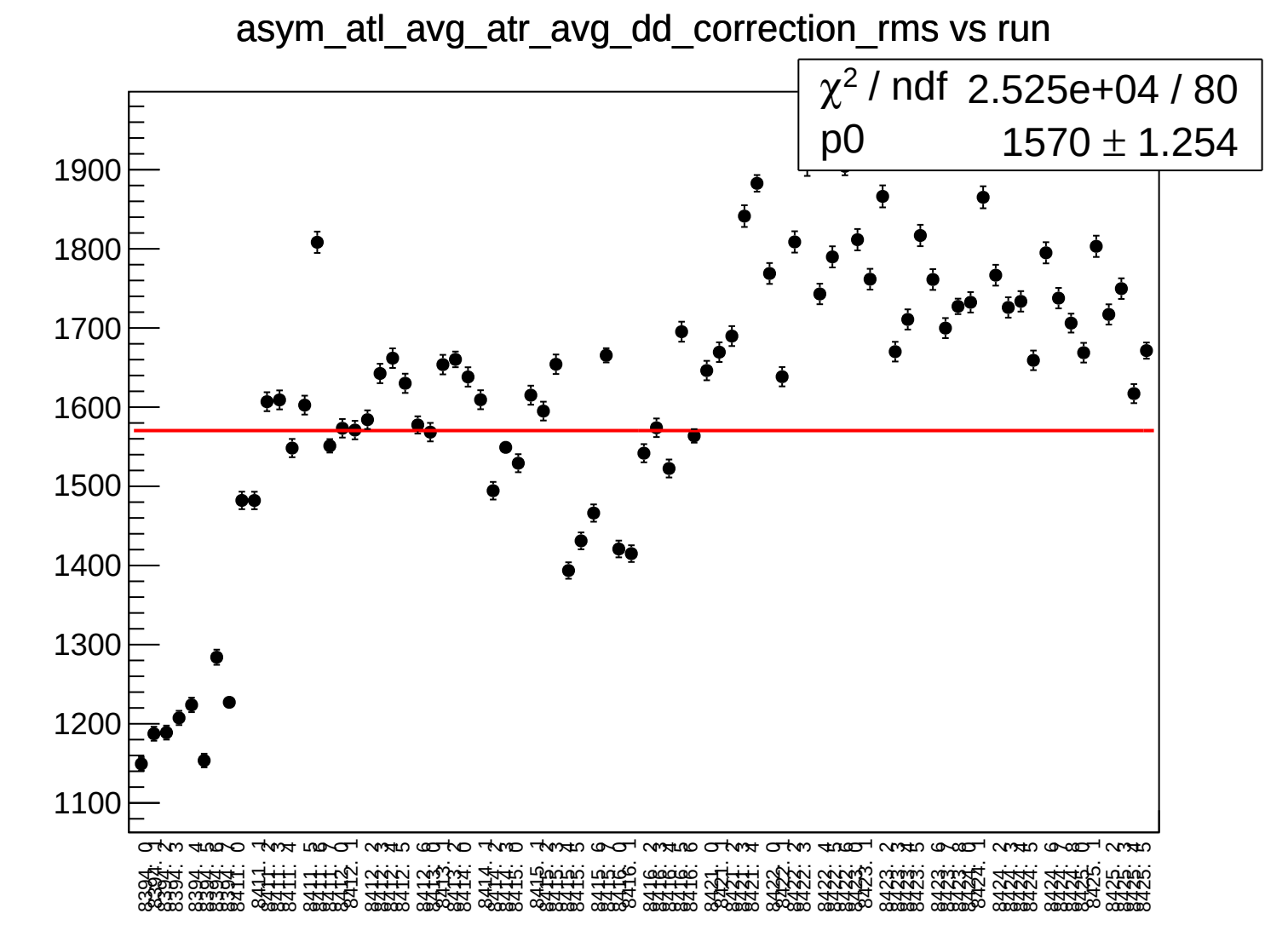

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 86.2 / 80
p0 −272.2 ± 1429
pull
Entries 81
Mean −31.86
Std Dev 40.73

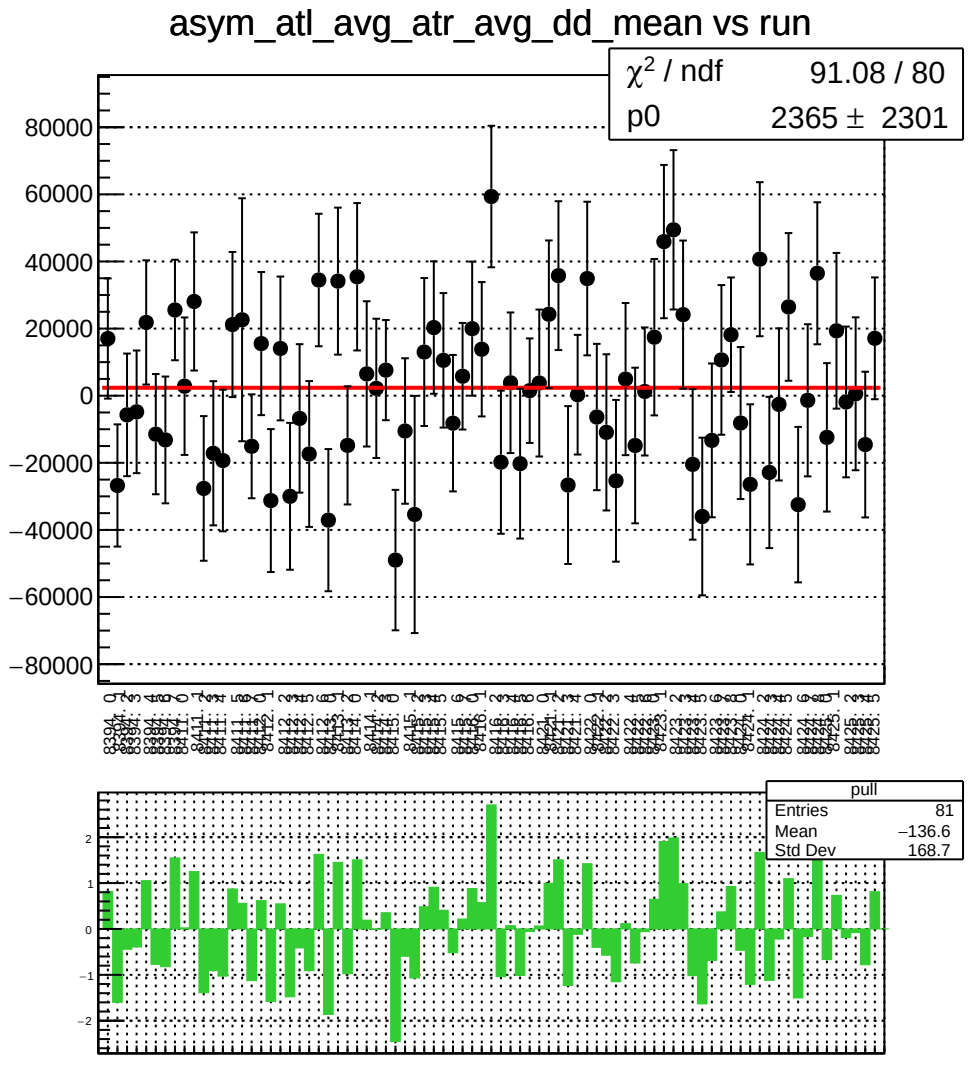

pull1D
Entries 81
Mean −0.01602
Std Dev 1.031

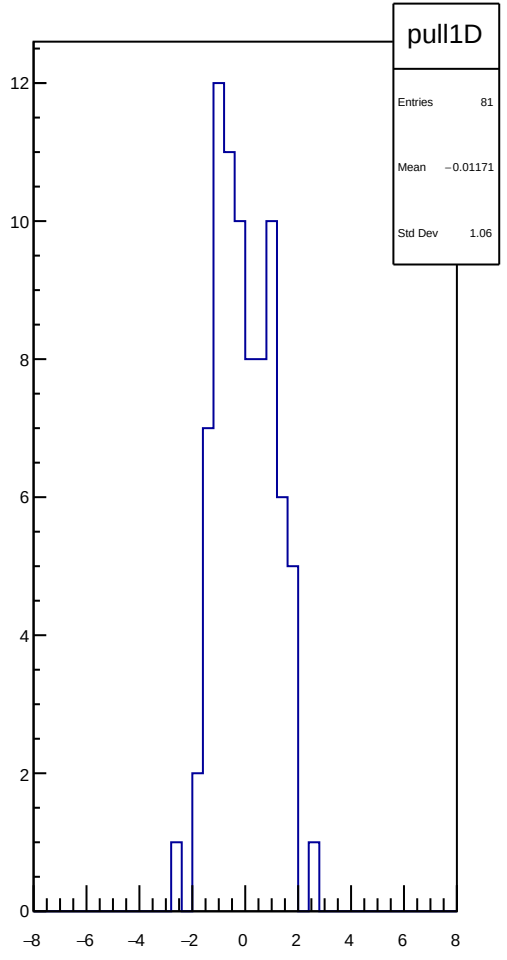

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.17e+04 / 80
p0 1272 ± 1.011
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

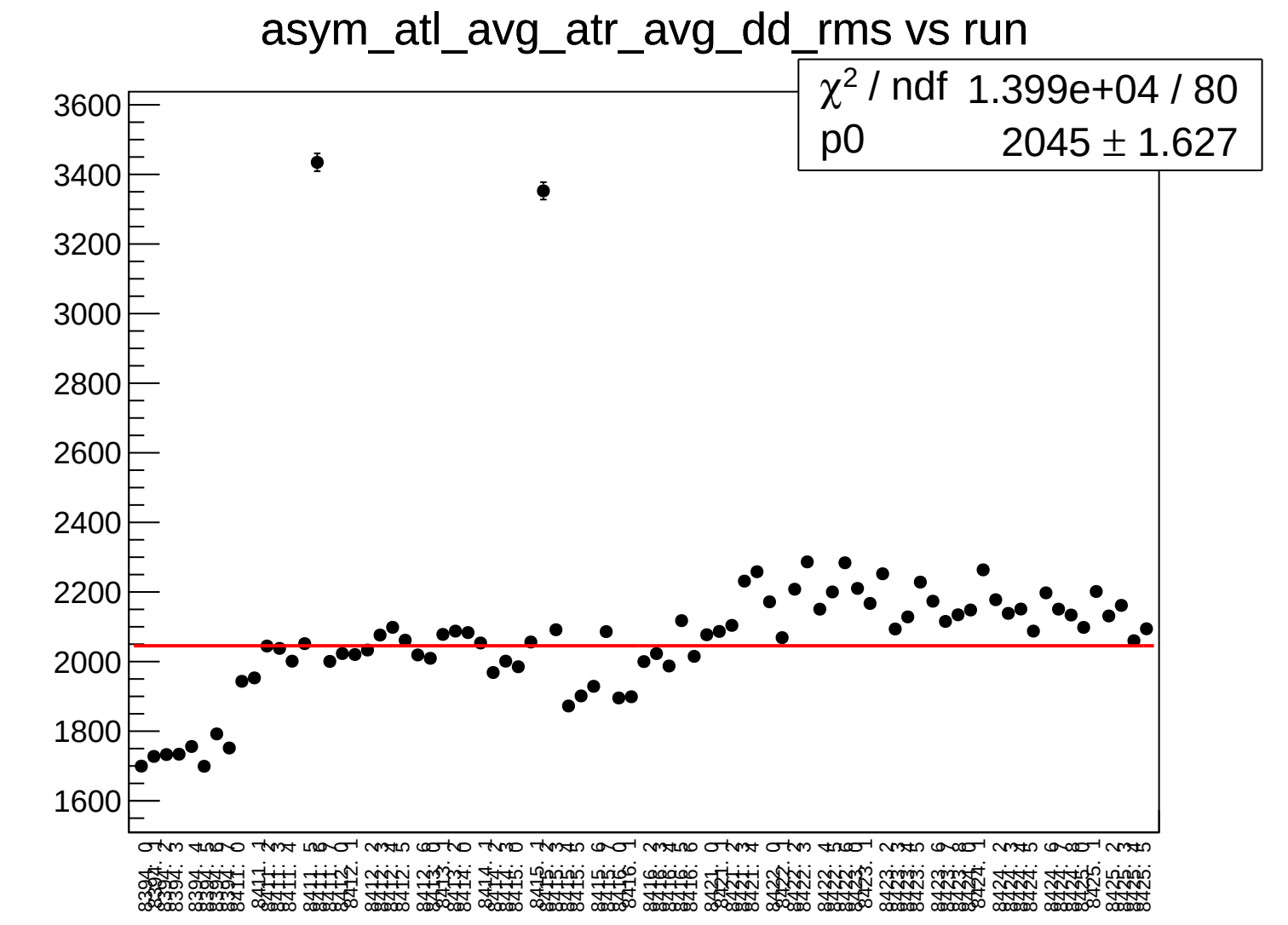

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 70.52 / 80
p0 −2785 ± 1773
pull
Entries 81
Mean −247.3
Std Dev 287.8

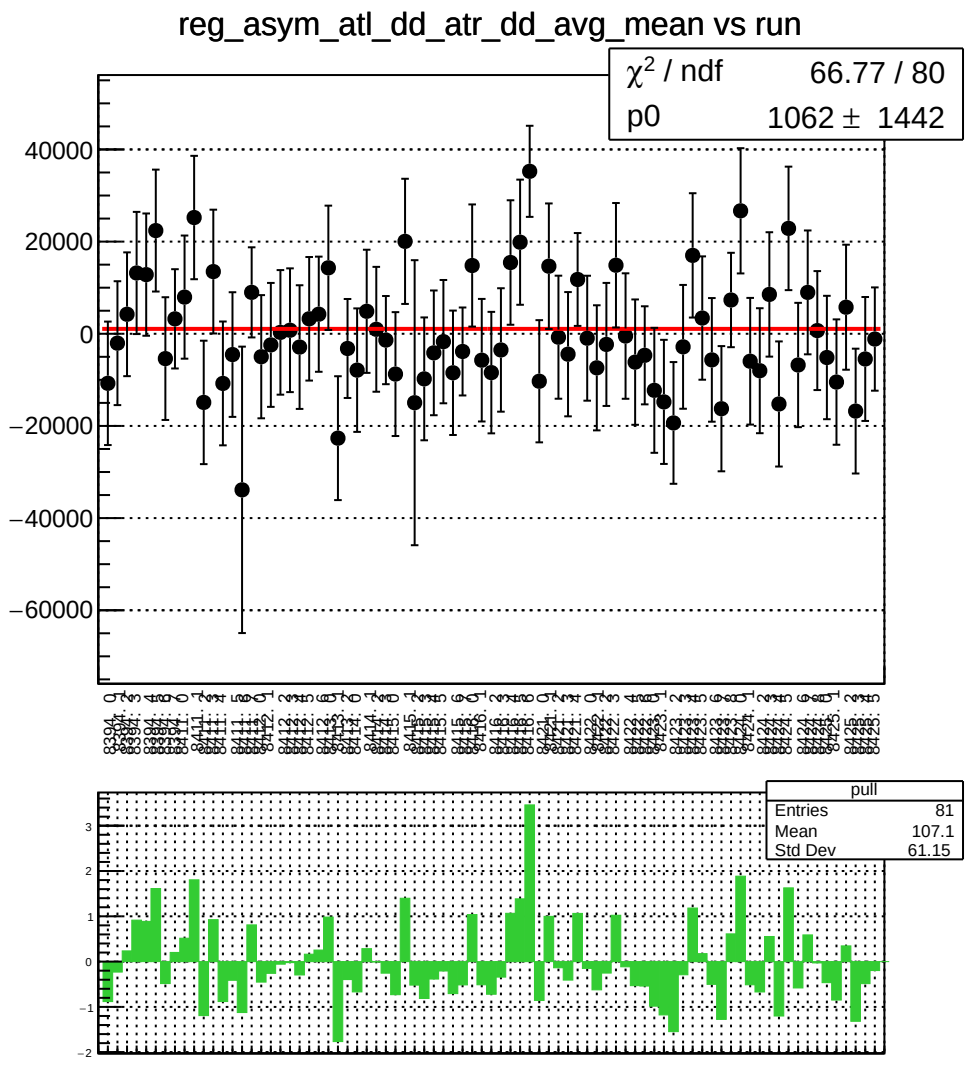

pull1D
Entries 81
Mean 0.005916
Std Dev 0.933

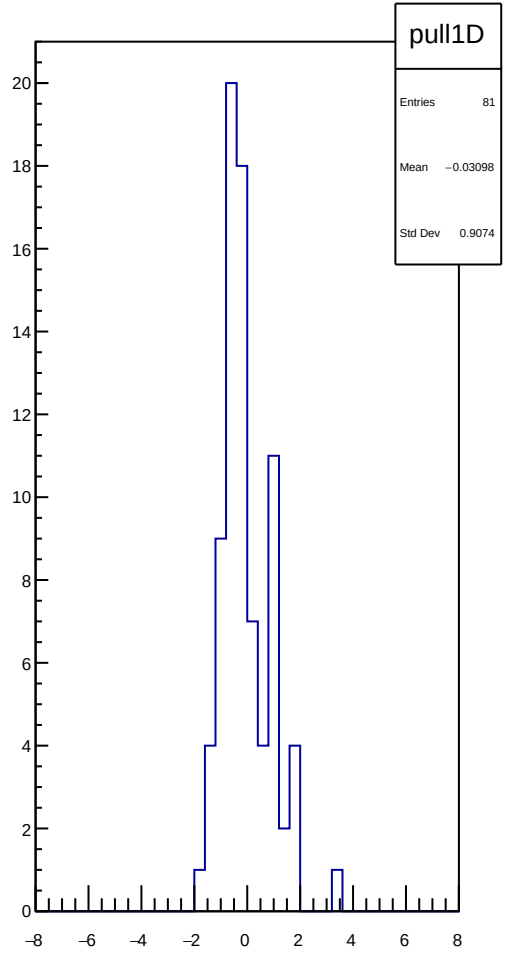

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 2.525e+04 / 80
p0 1570 ± 1.254
1900
1800
1700
1600
1500
1400
1300
1200
1100

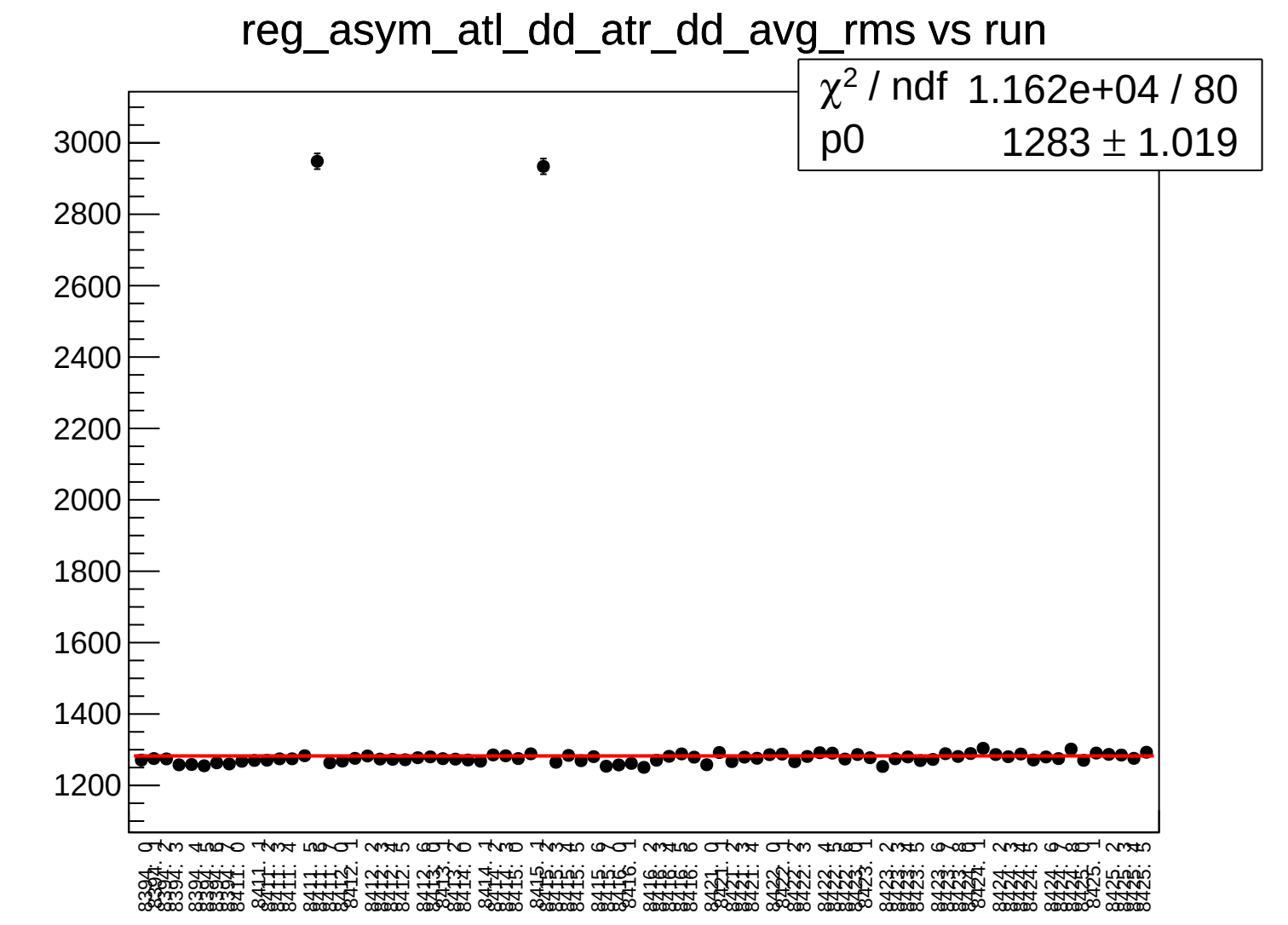

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 91.08 / 80
p0 2365 ± 2301
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −136.6
Std Dev 168.7
2
1
0
−1
−2

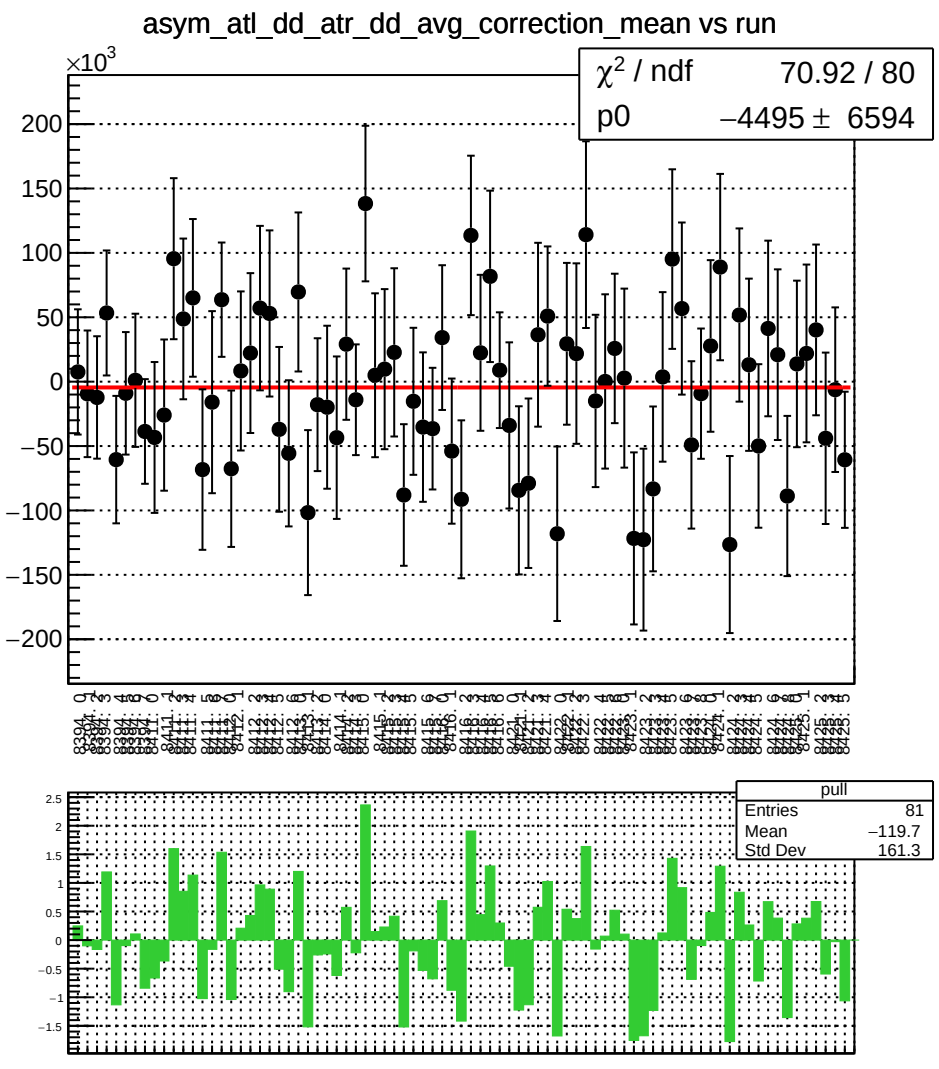

pull1D
Entries 81
Mean −0.01171
Std Dev 1.06
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

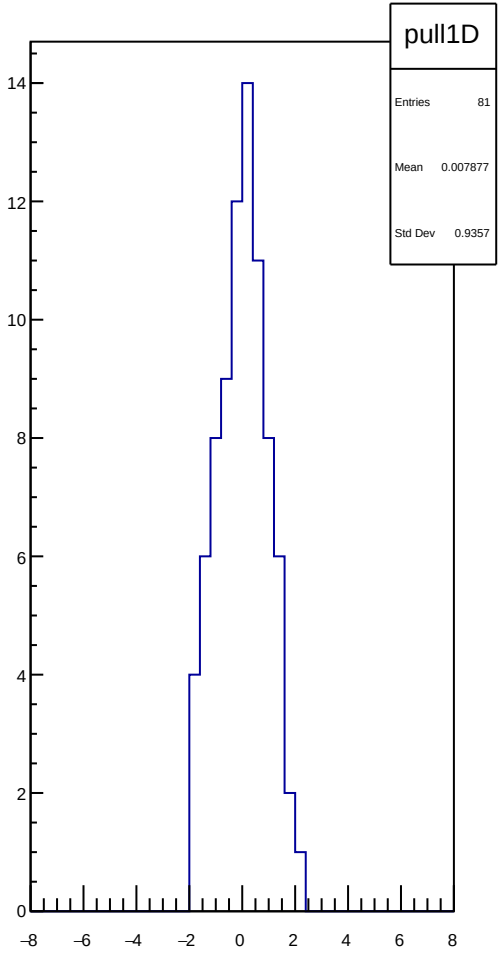

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.399e+04 / 80
p0 2045 ± 1.627
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

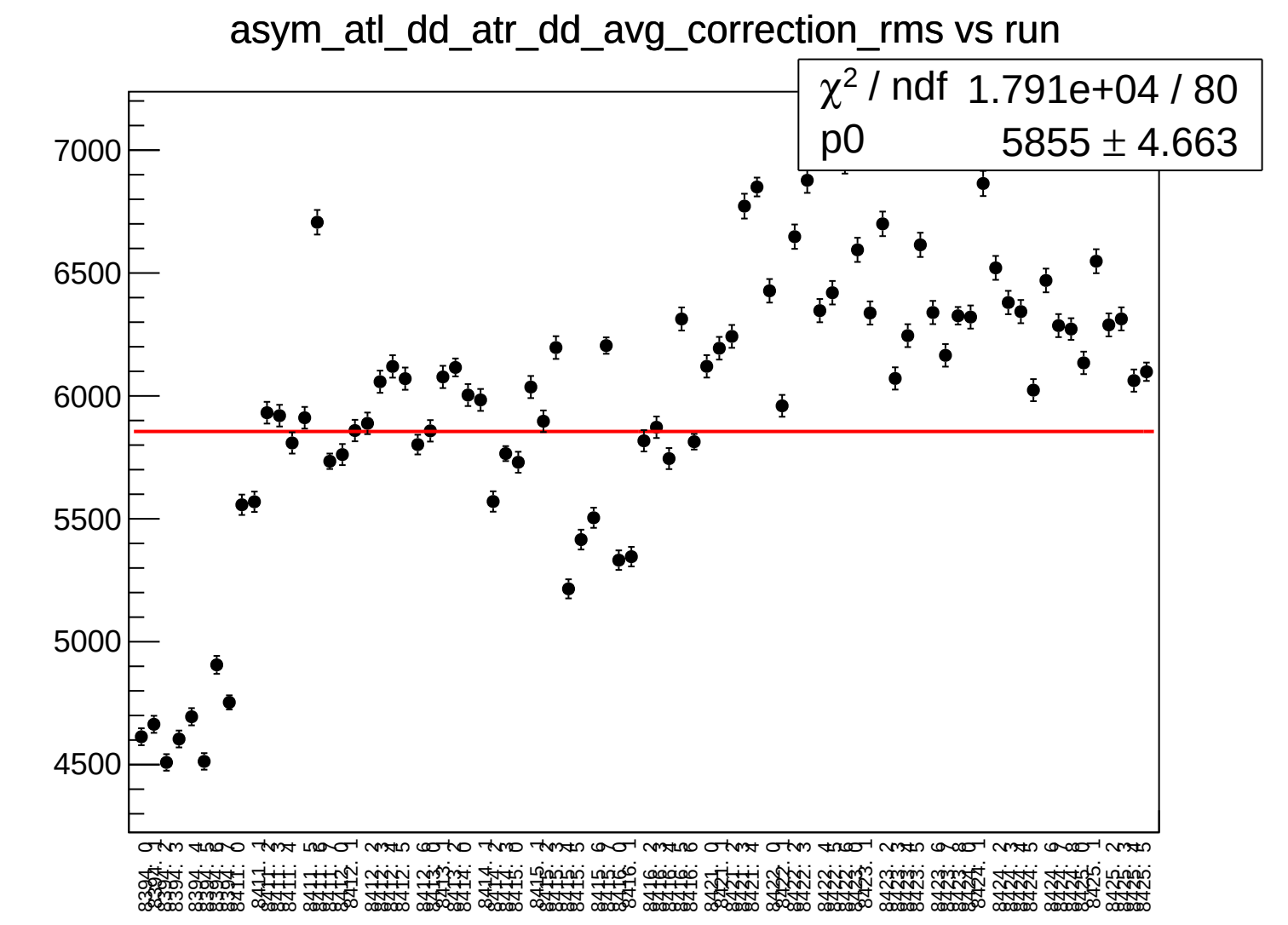

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 66.77 / 80
p0 1062 ± 1442
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 107.1
Std Dev 61.15
3
2
1
0
−1
−2

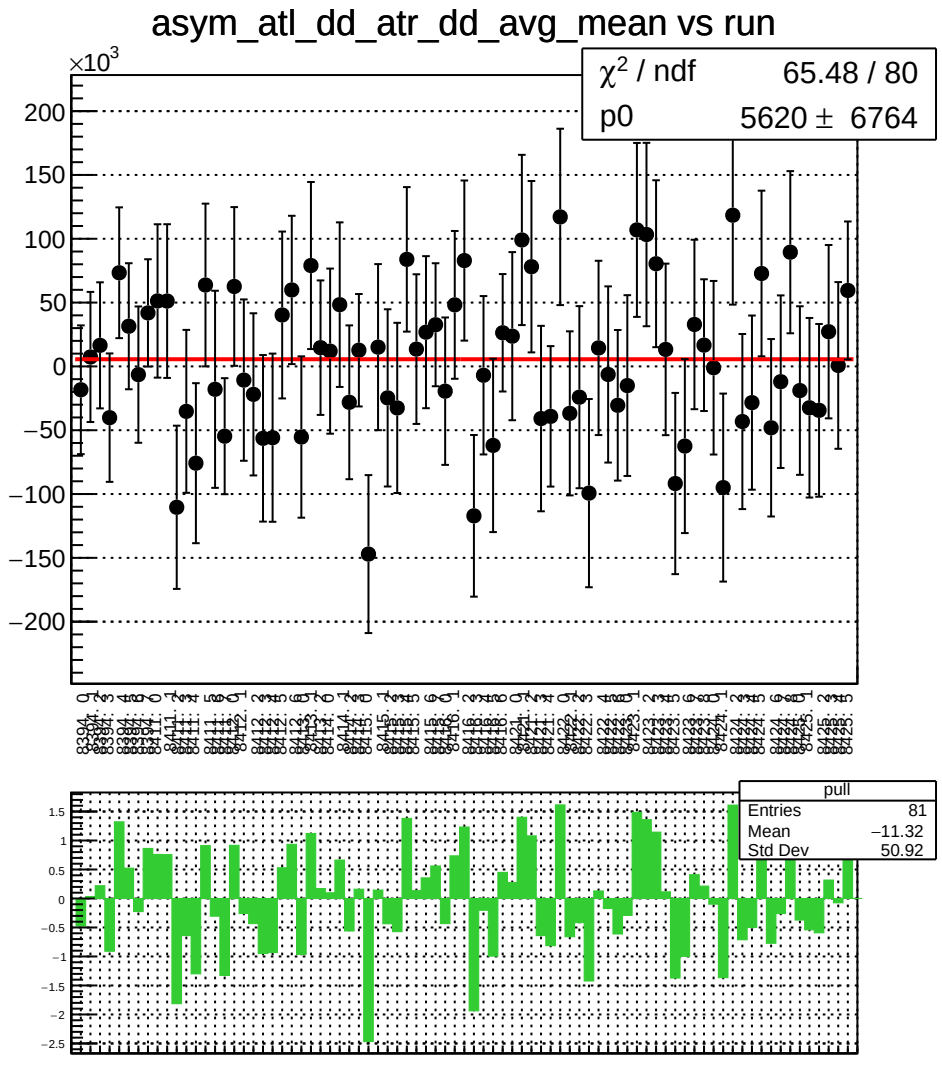

pull1D
Entries 81
Mean −0.03098
Std Dev 0.9074
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

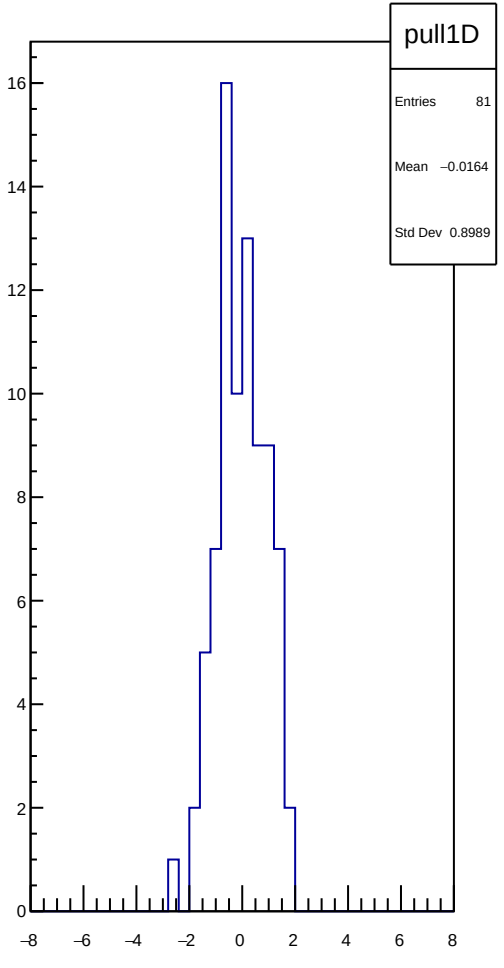

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.162e+04 / 80
p0 1283 ± 1.019
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

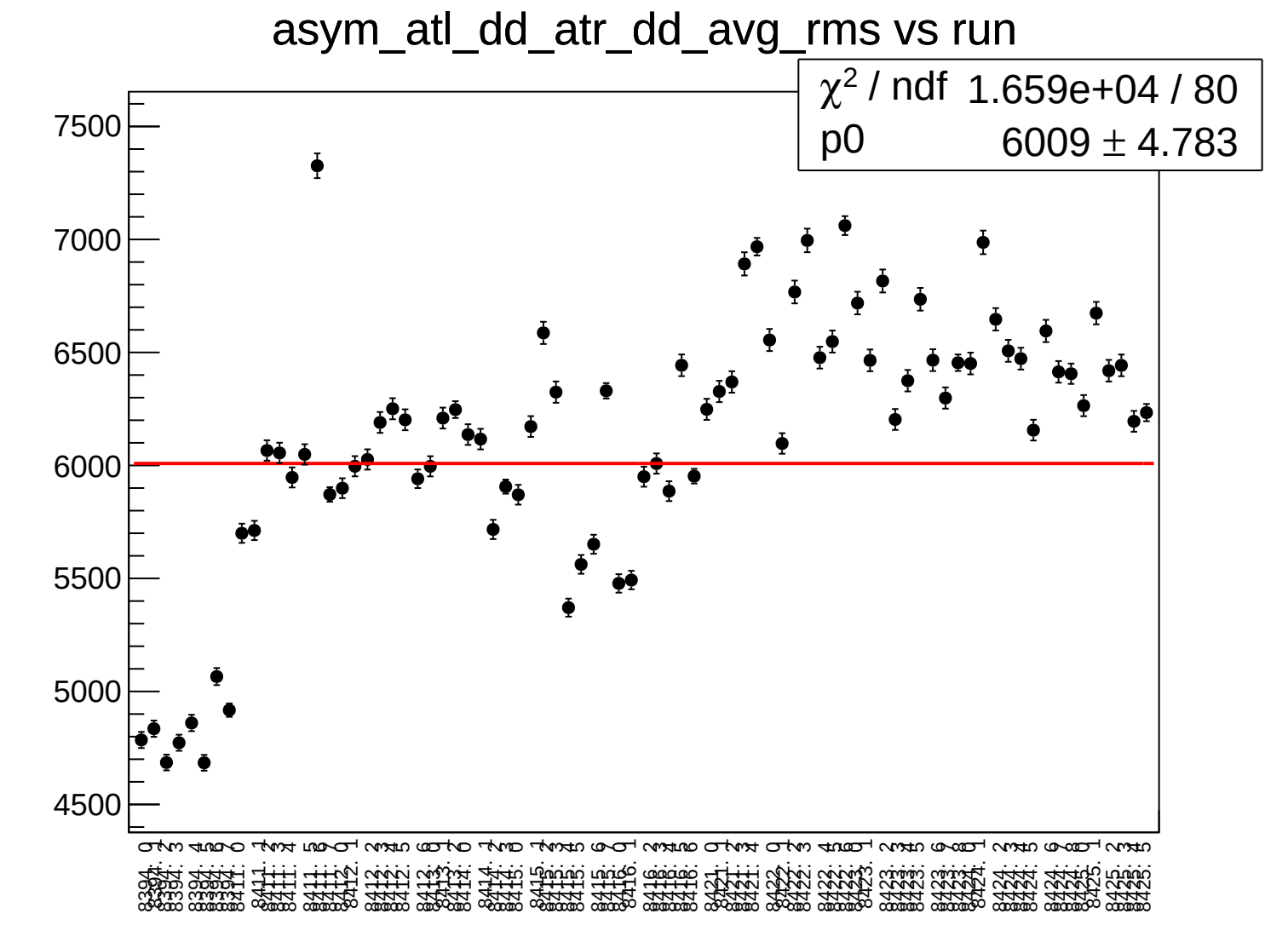

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 70.92 / 80
p0 −4495 ± 6594
pull
Entries 81
Mean −119.7
Std Dev 161.3

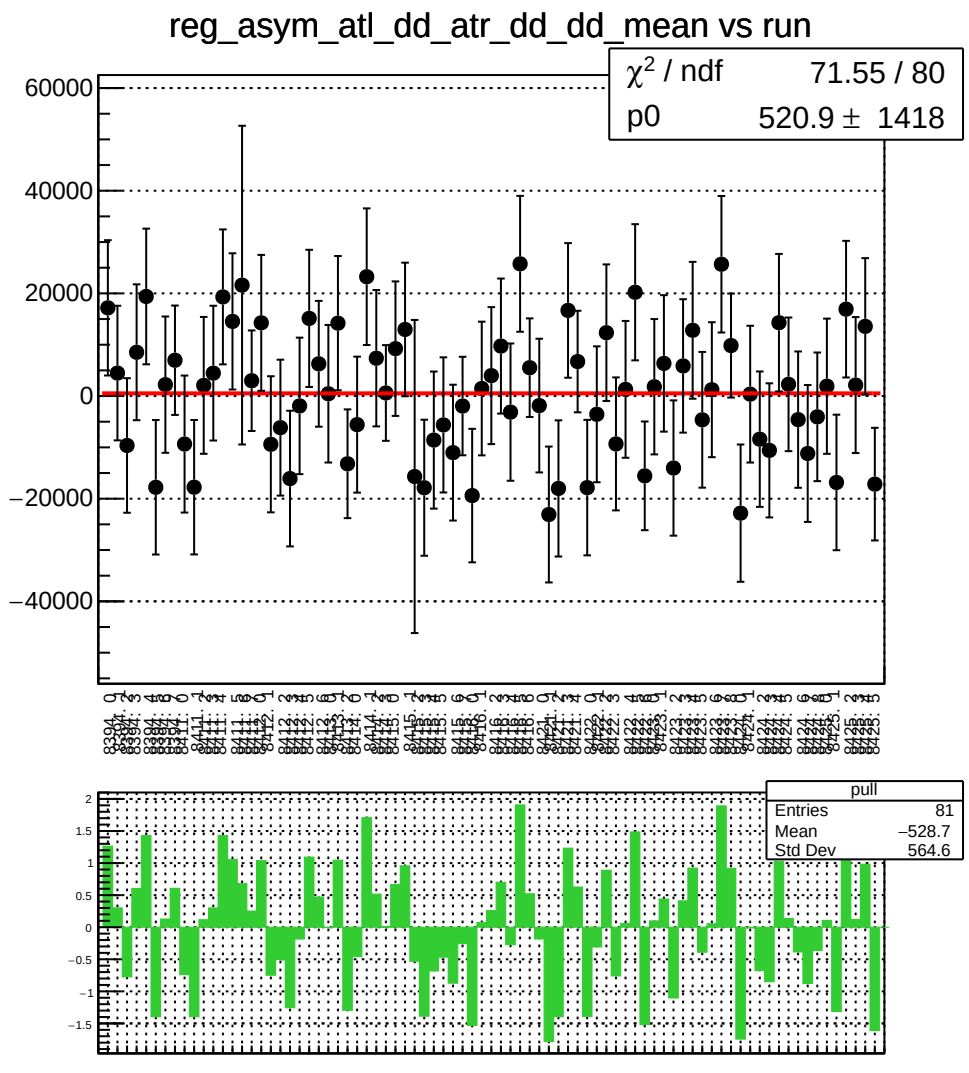

pull1D
Entries 81
Mean 0.007877
Std Dev 0.9357

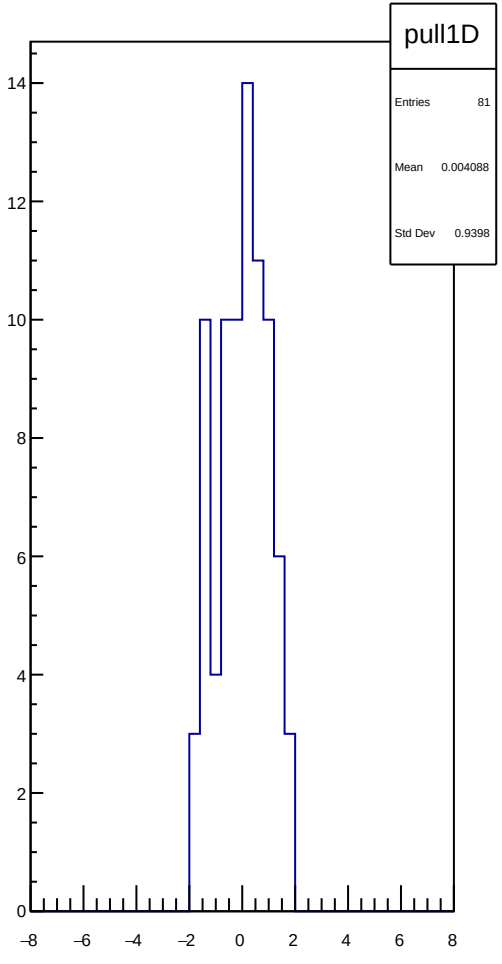

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 1.791e+04 / 80
p0 5855 ± 4.663
7000
6500
6000
5500
5000
4500

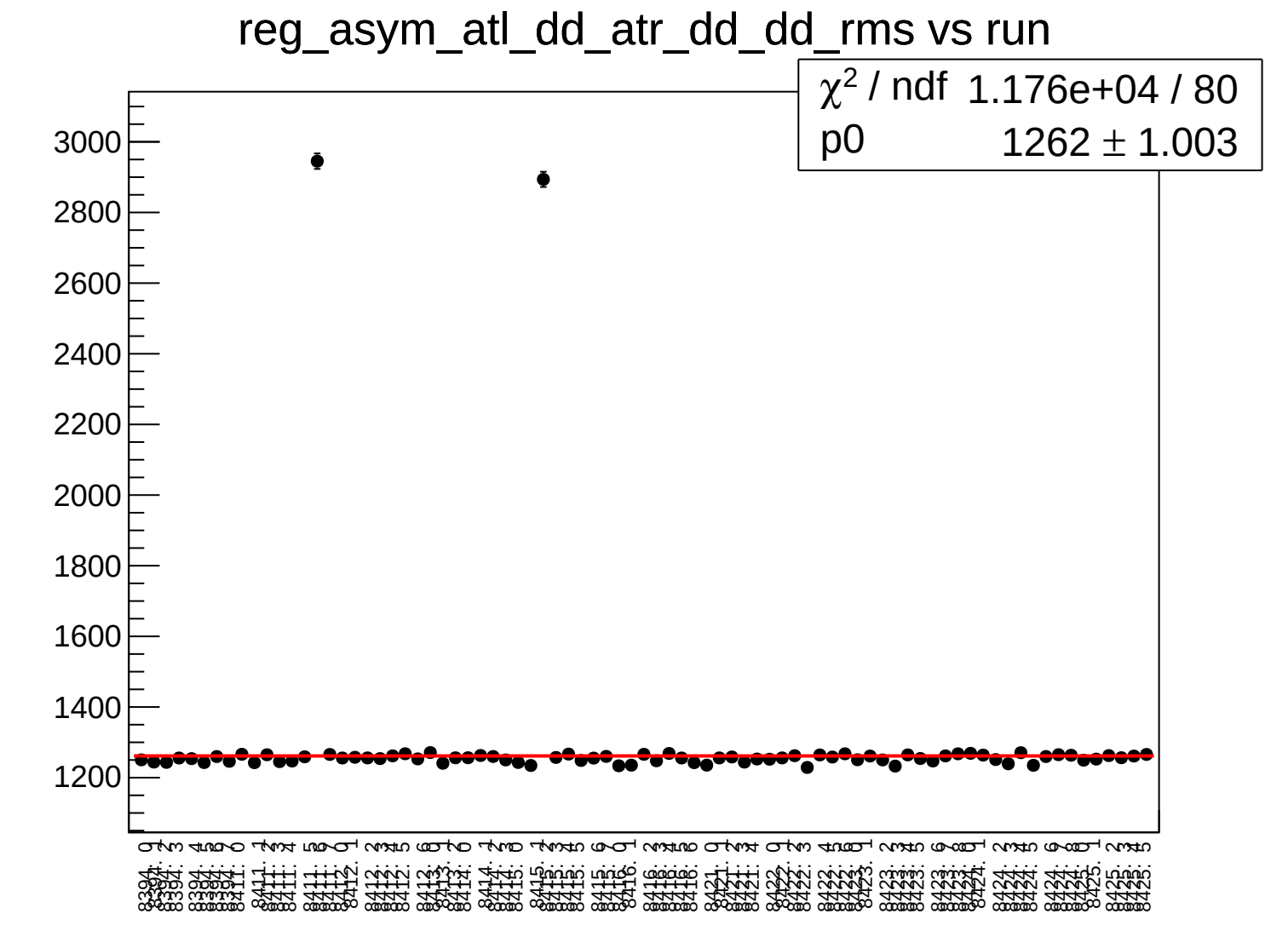

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 65.48 / 80
p0 5620 ± 6764
pull
Entries 81
Mean −11.32
Std Dev 50.92

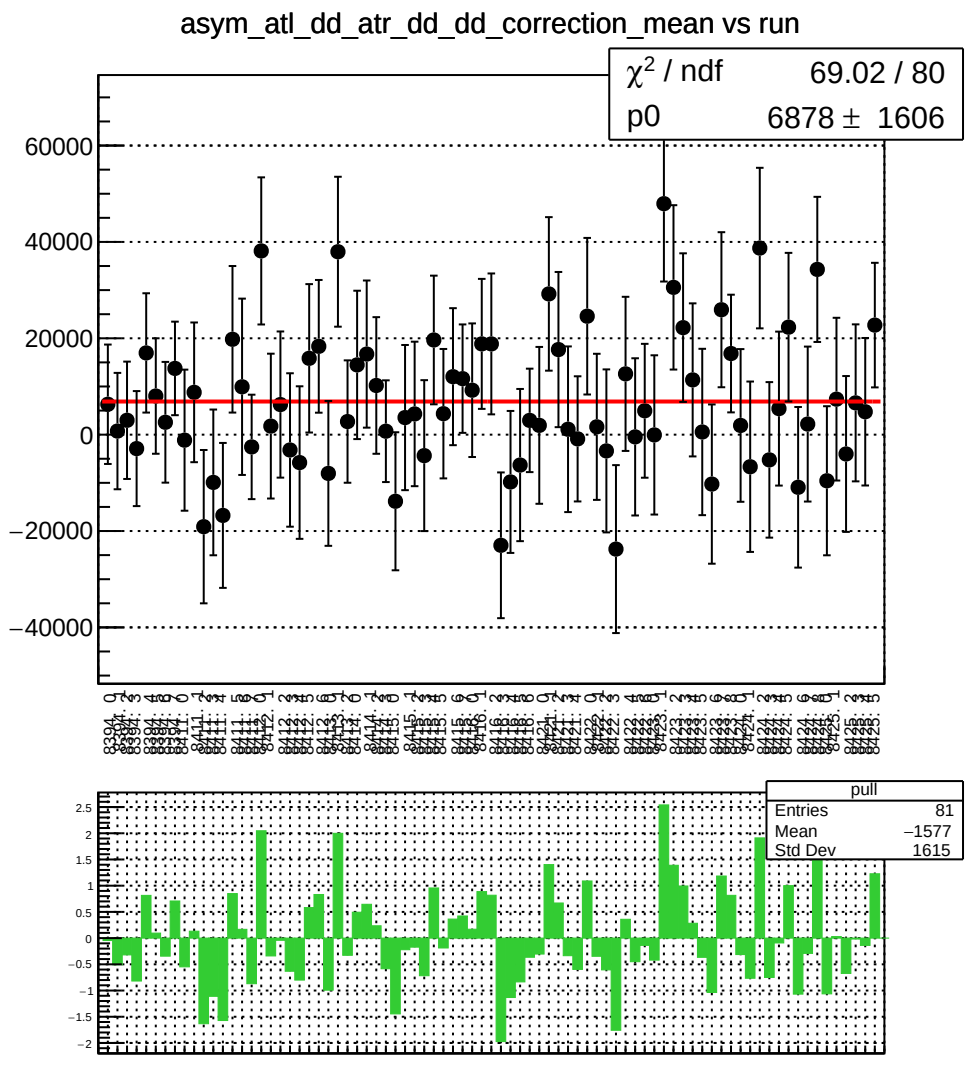

pull1D
Entries 81
Mean −0.0164
Std Dev 0.8989

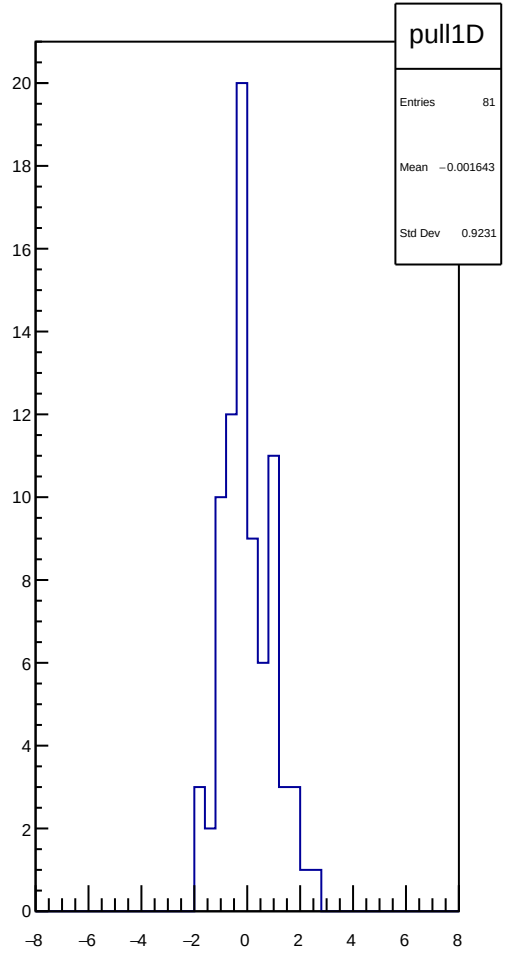

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.659e+04 / 80
p0 6009 ± 4.783
7500
7000
6500
6000
5500
5000
4500

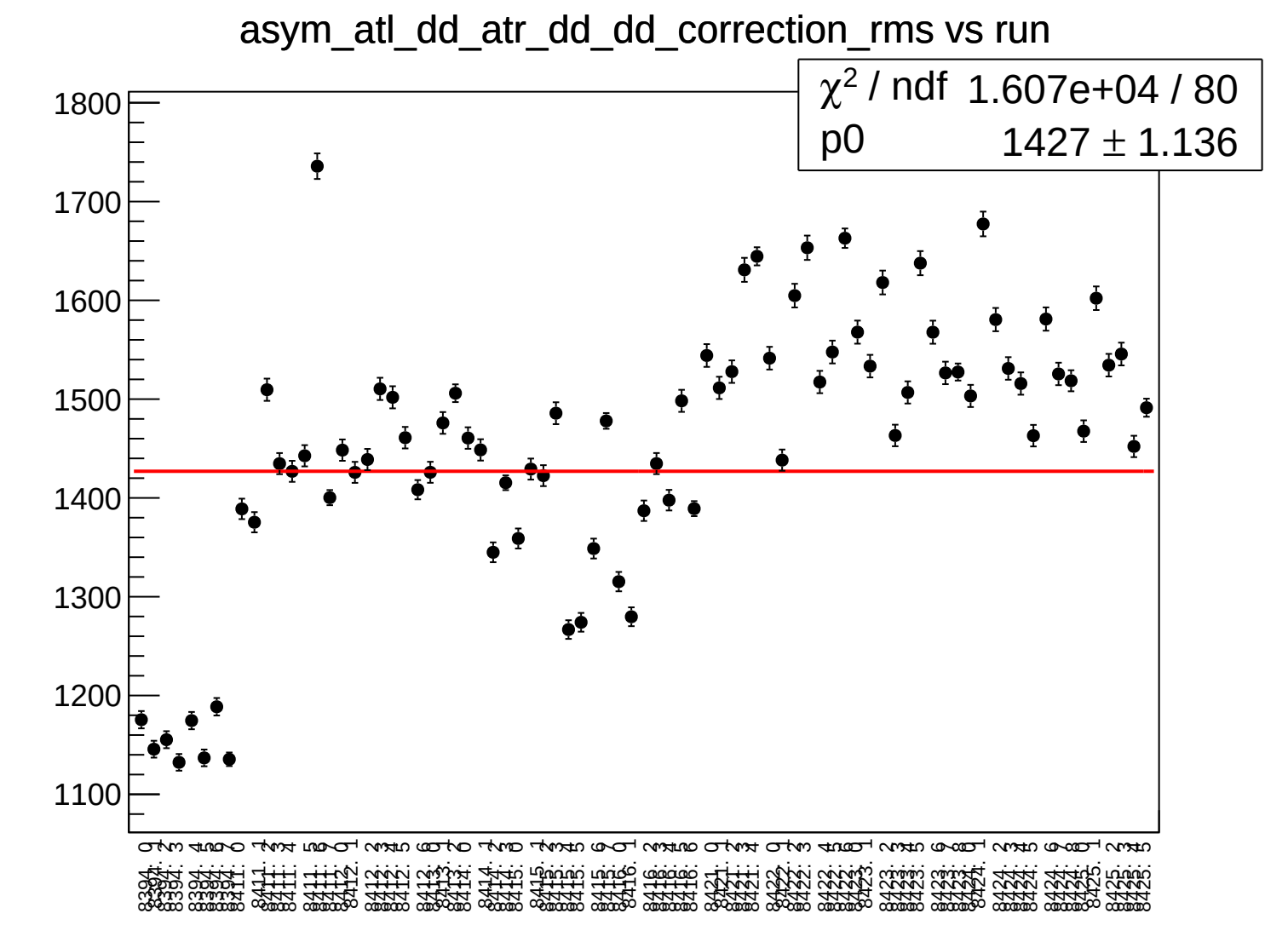

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 71.55 / 80
p0 520.9 ± 1418
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −528.7
Std Dev 564.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

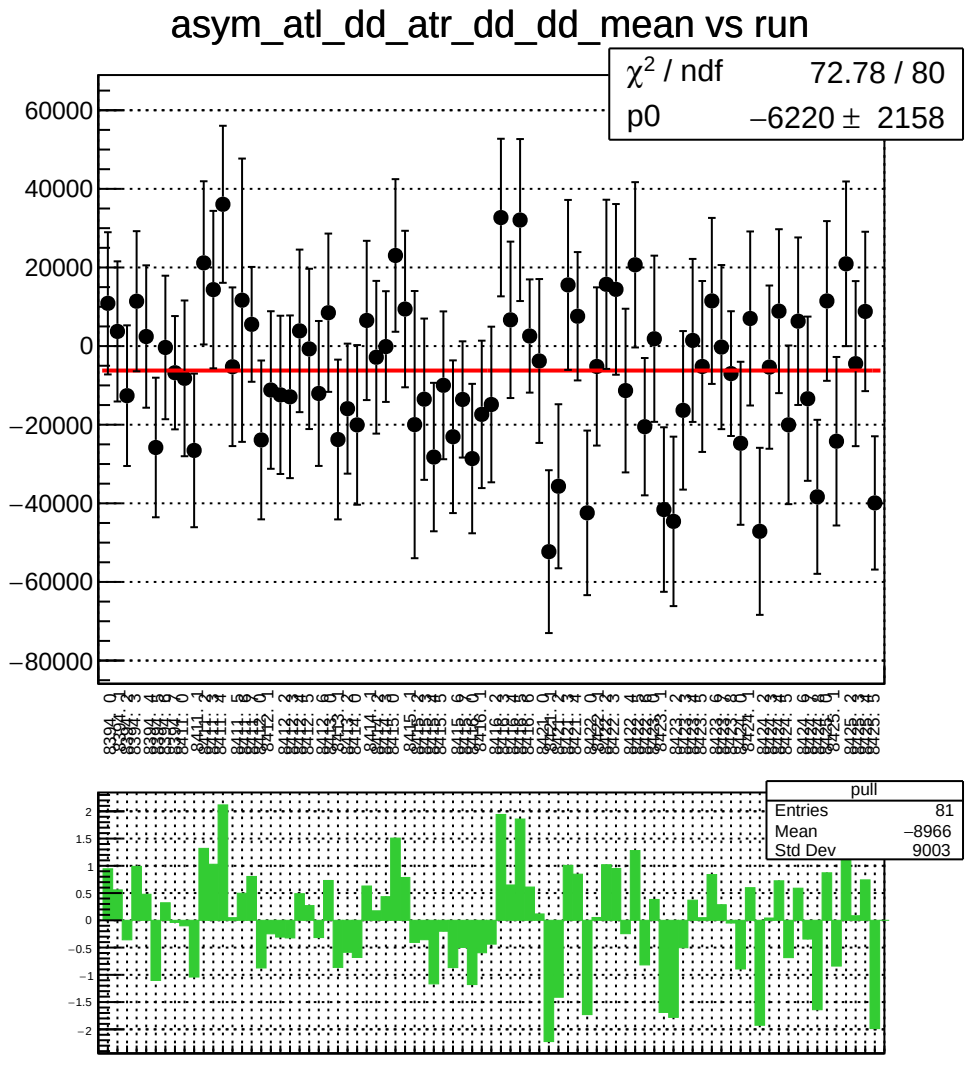

pull1D
Entries 81
Mean 0.004088
Std Dev 0.9398
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

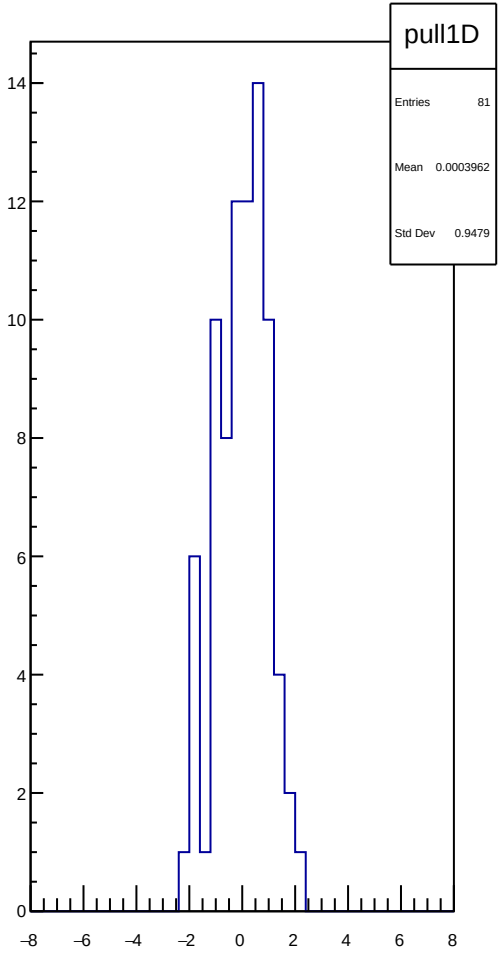

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.176e+04 / 80
p0 1262 ± 1.003
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

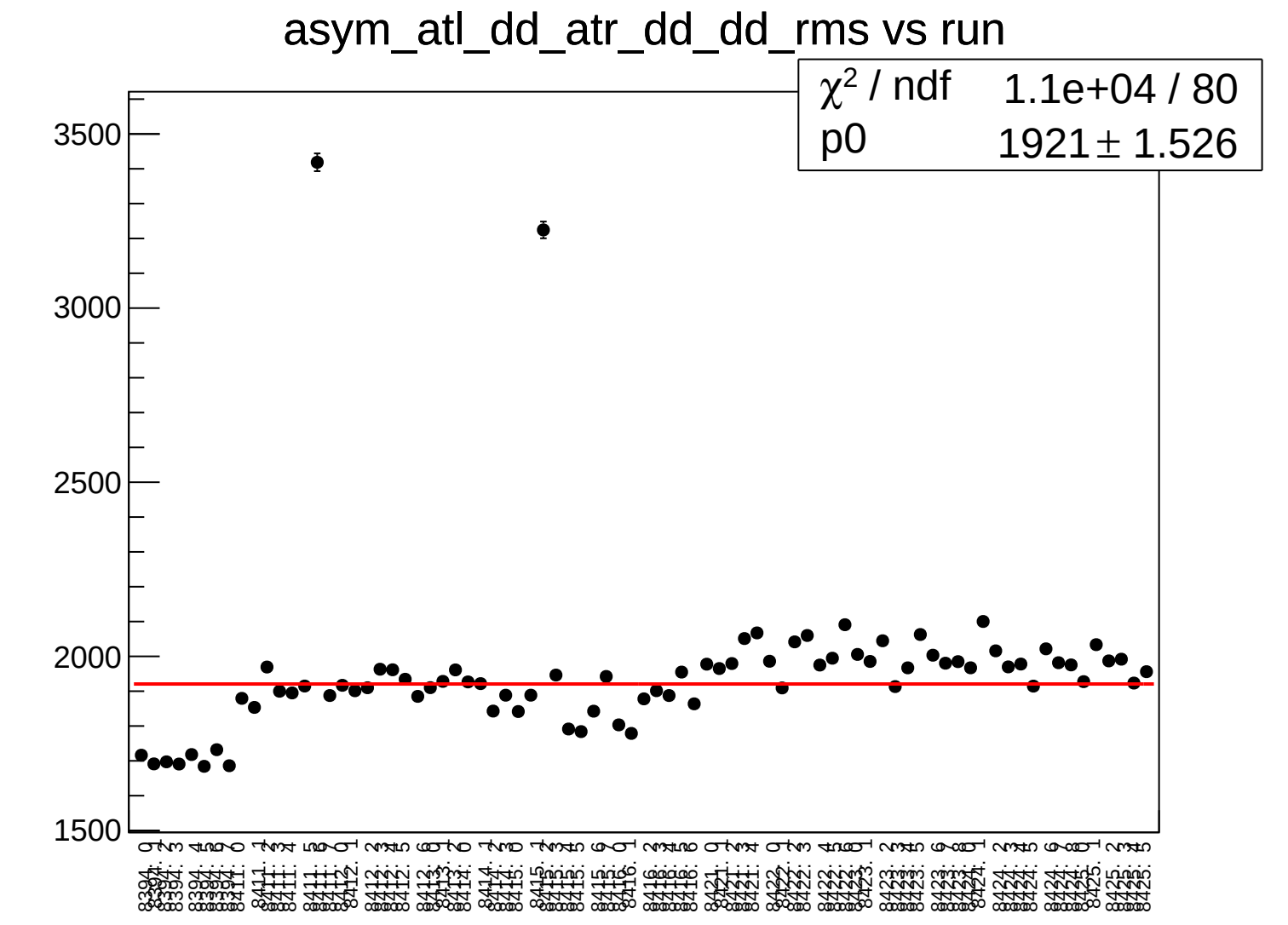

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 69.02 / 80
p0 6878 ± 1606
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −1577
Std Dev 1615
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

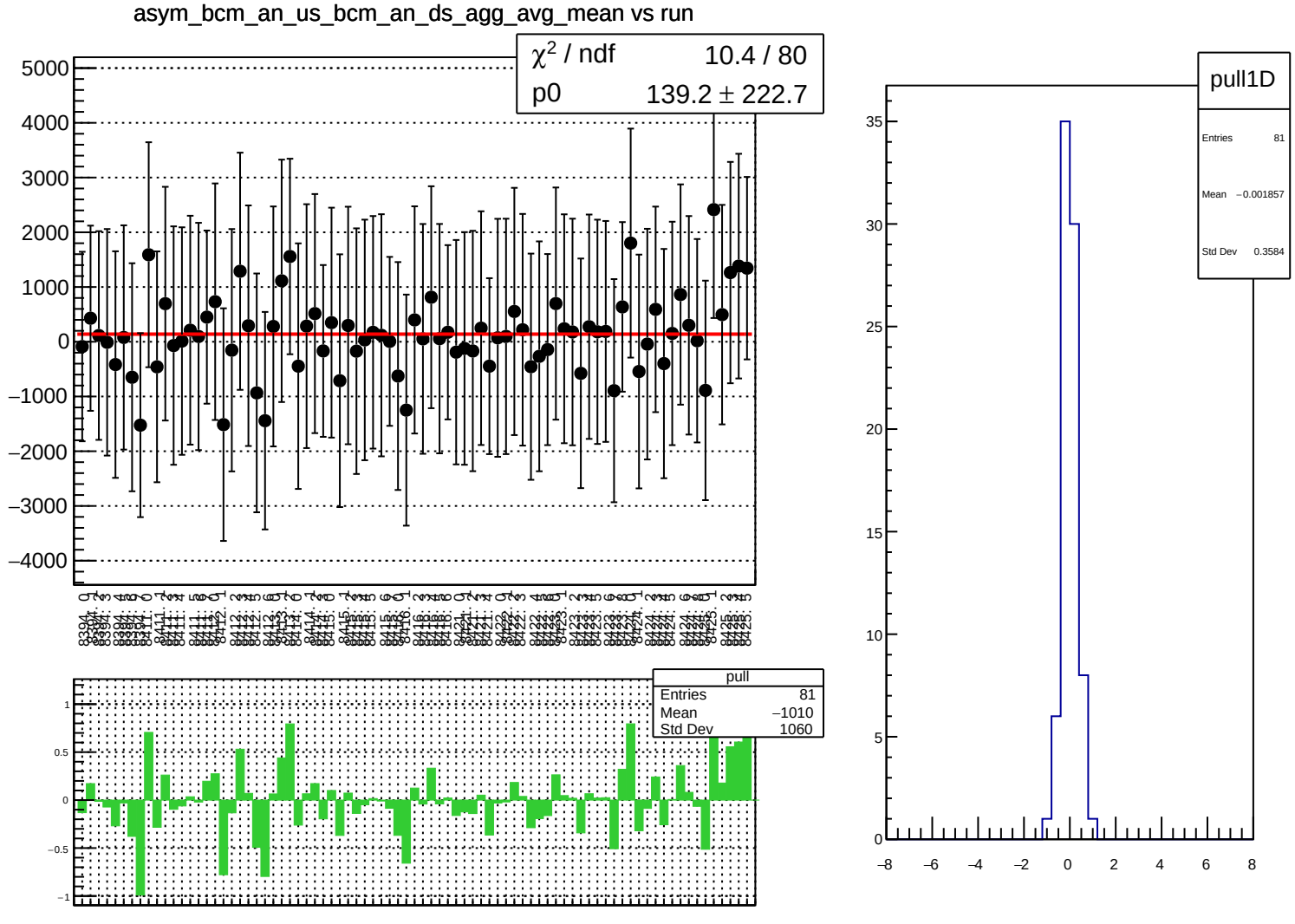

pull1D
Entries 81
Mean −0.001643
Std Dev 0.9231
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

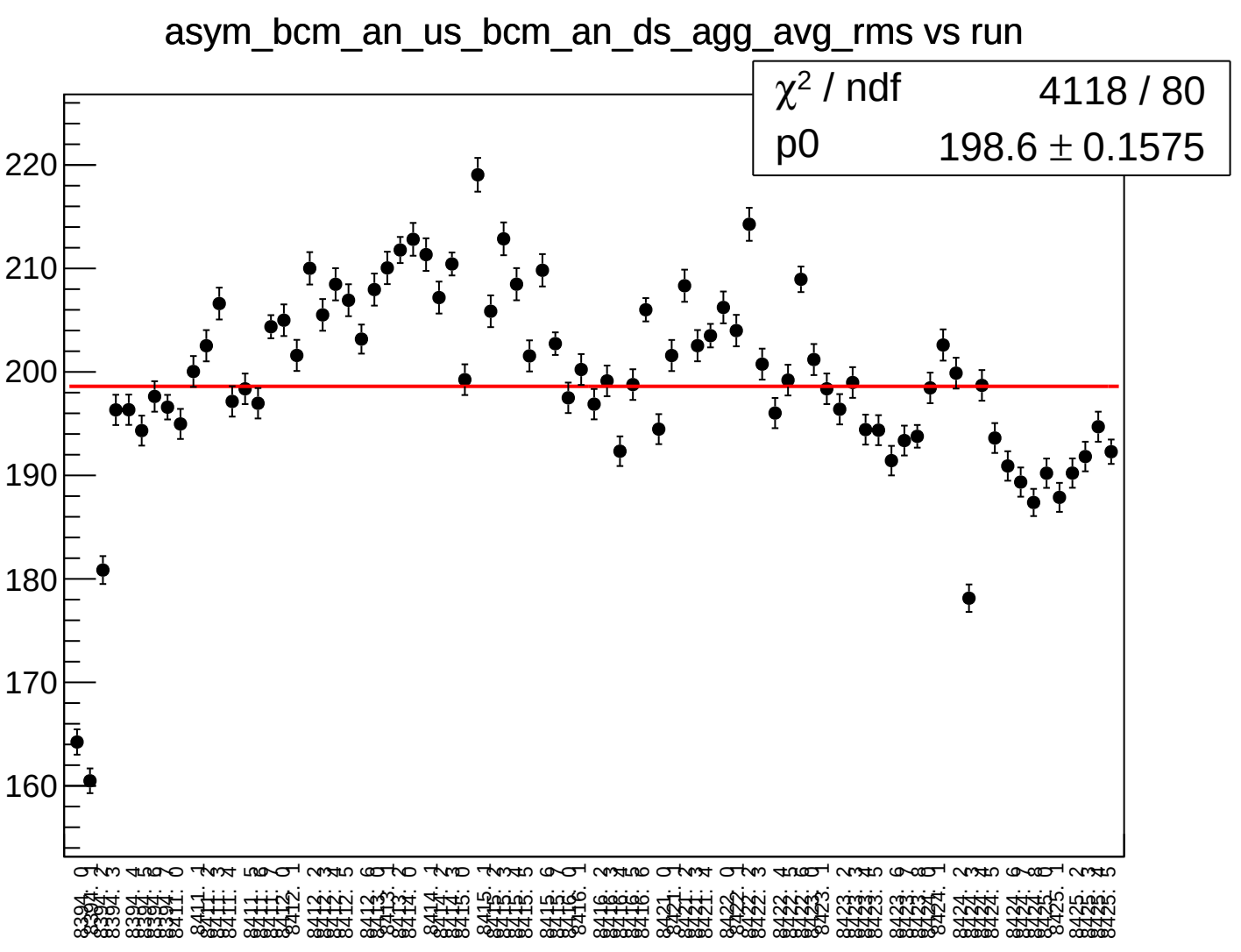

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 1.607e+04 / 80
p0 1427 ± 1.136
1800
1700
1600
1500
1400
1300
1200
1100

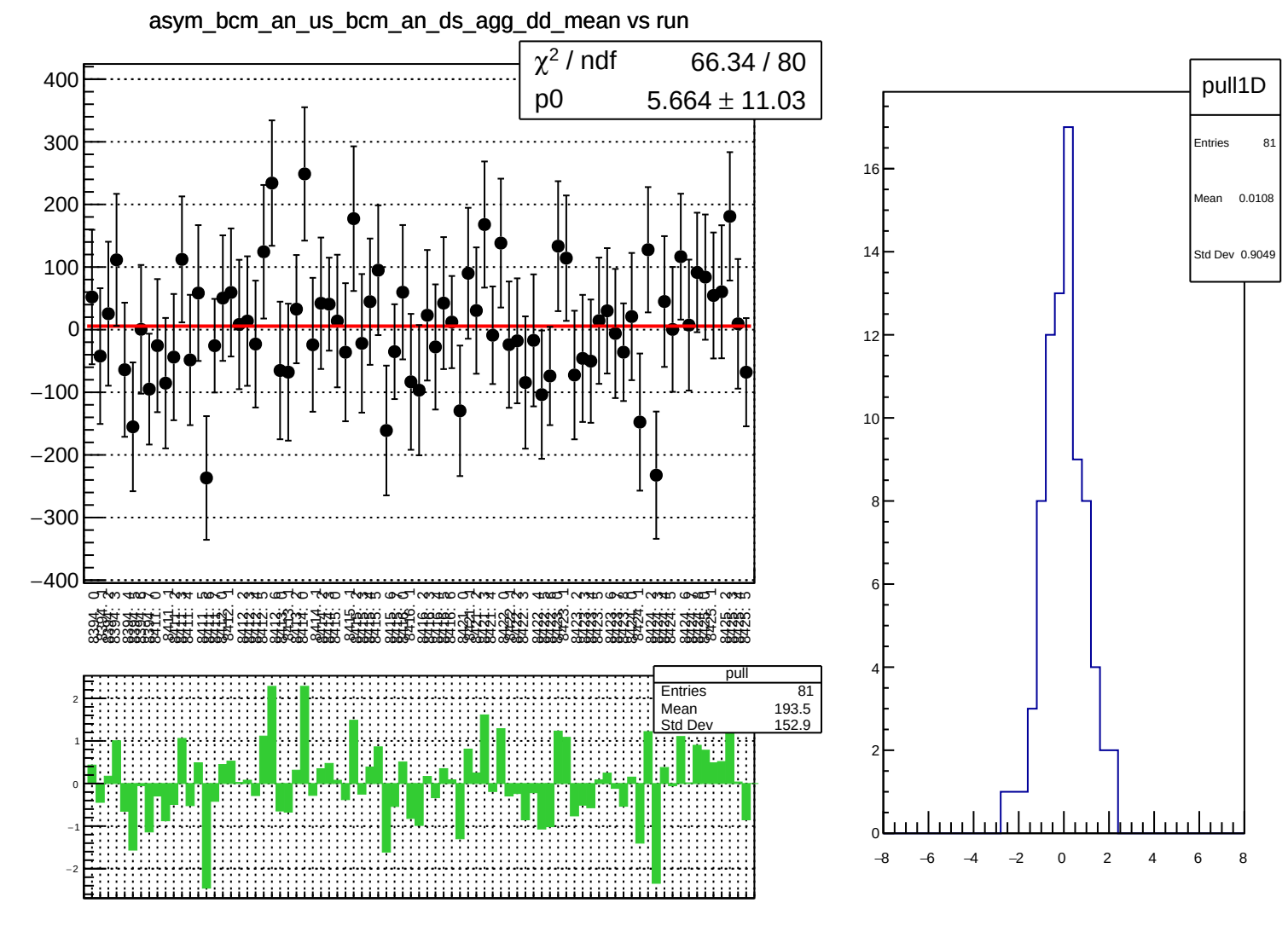

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 72.78 / 80
p0 −6220 ± 2158
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean −8966
Std Dev 9003
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

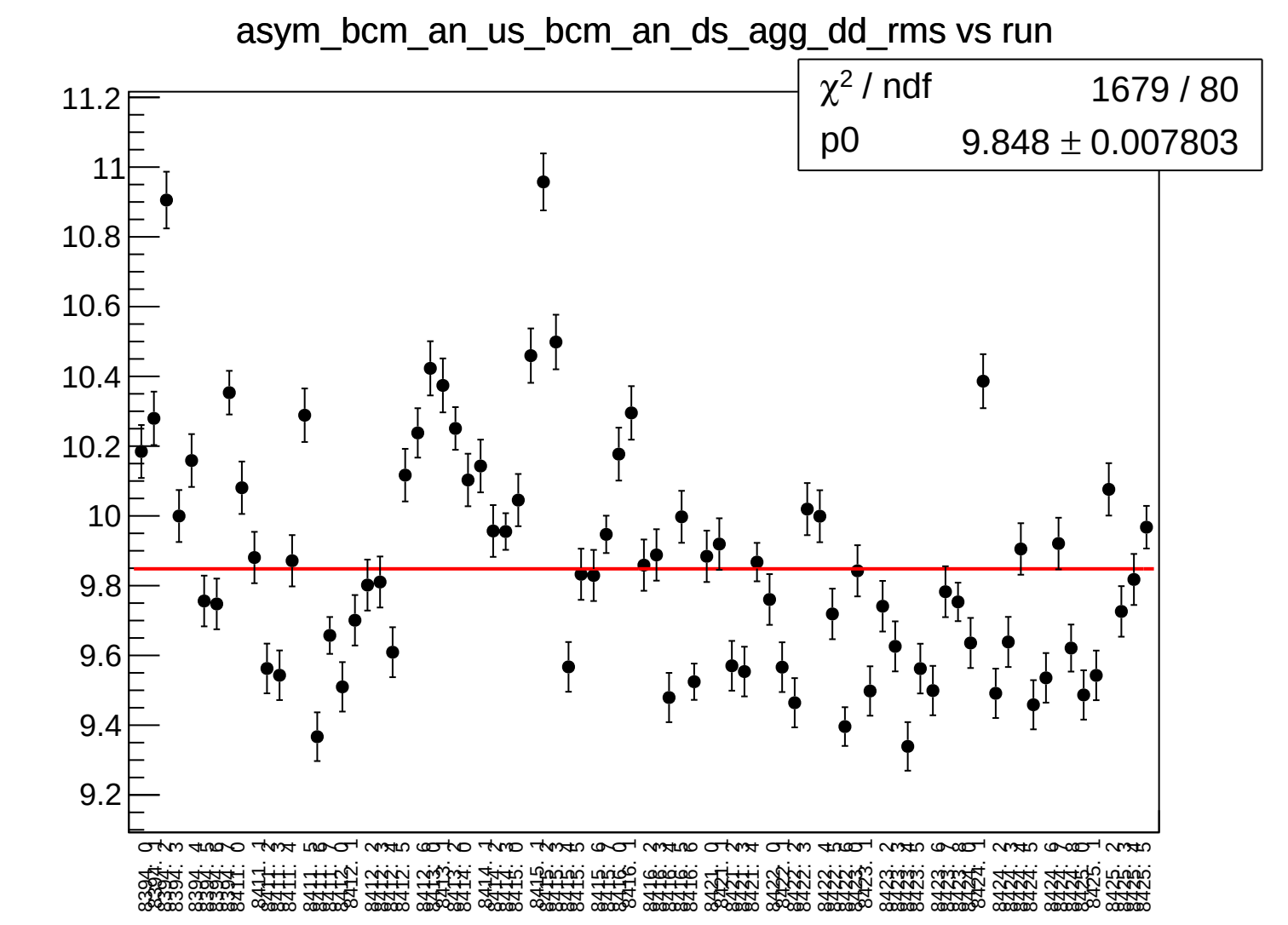

pull1D
Entries 81
Mean 0.0003962
Std Dev 0.9479
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

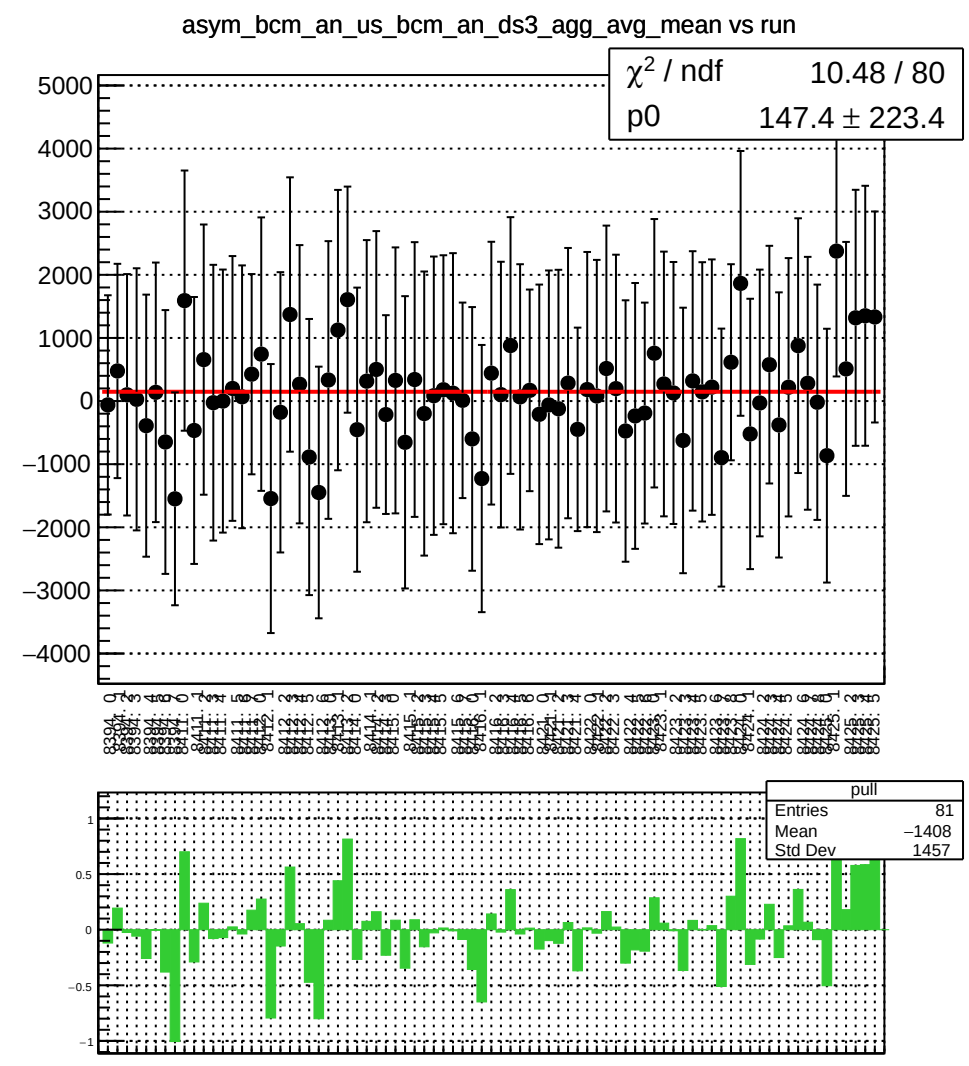

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.1e+04 / 80
p0 1921 ± 1.526
3500
3000
2500
2000
1500

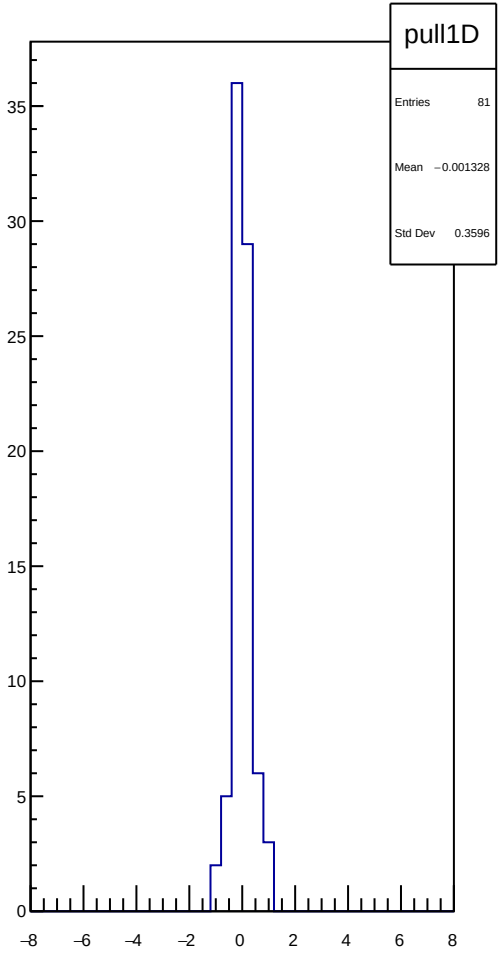

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.4 / 80
p0 139.2 ± 222.7
pull
Entries 81
Mean −1010
Std Dev 1060
pull1D
Entries 81
Mean −0.001857
Std Dev 0.3584

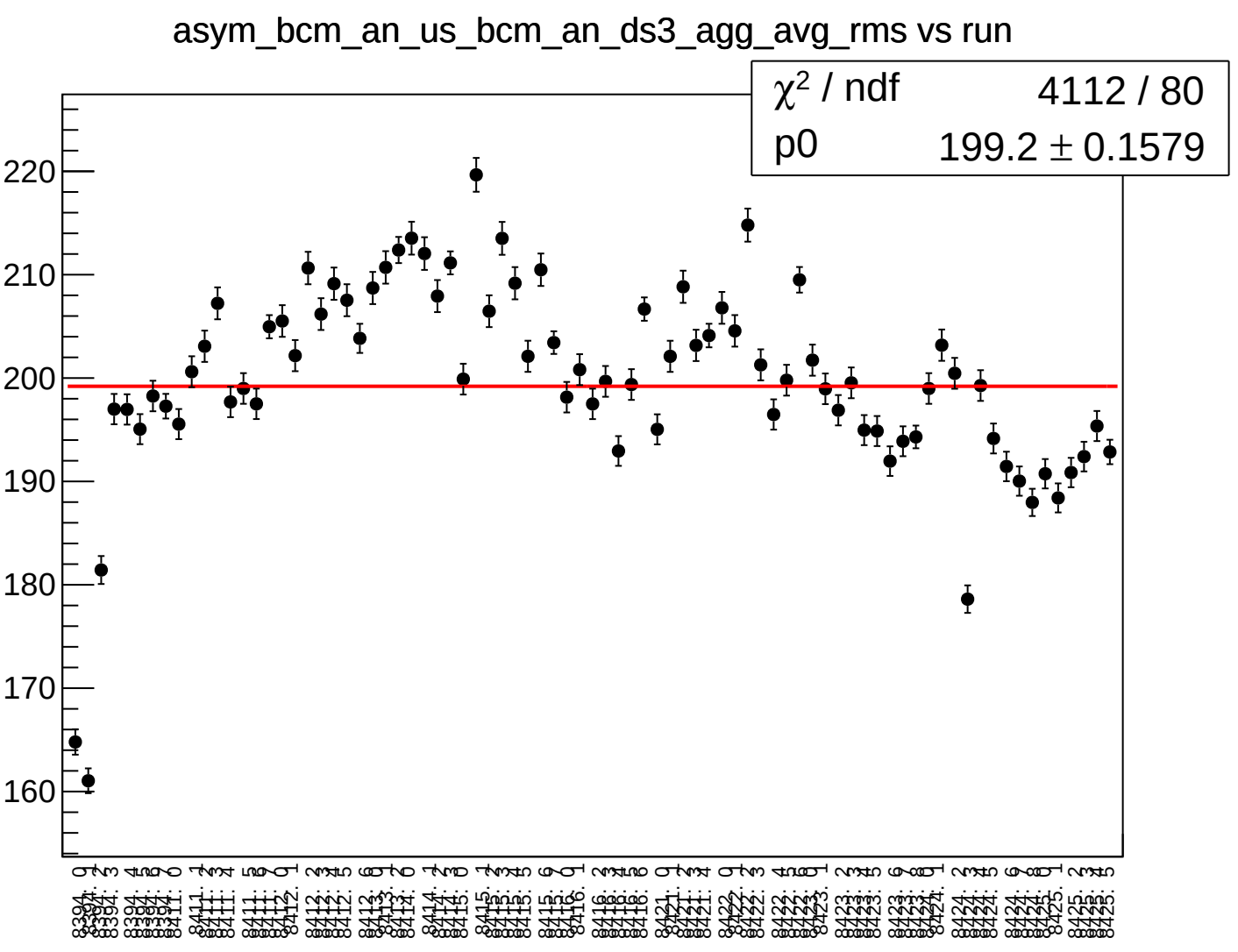

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4118 / 80
p0 198.6 ± 0.1575
220
210
200
190
180
170
160

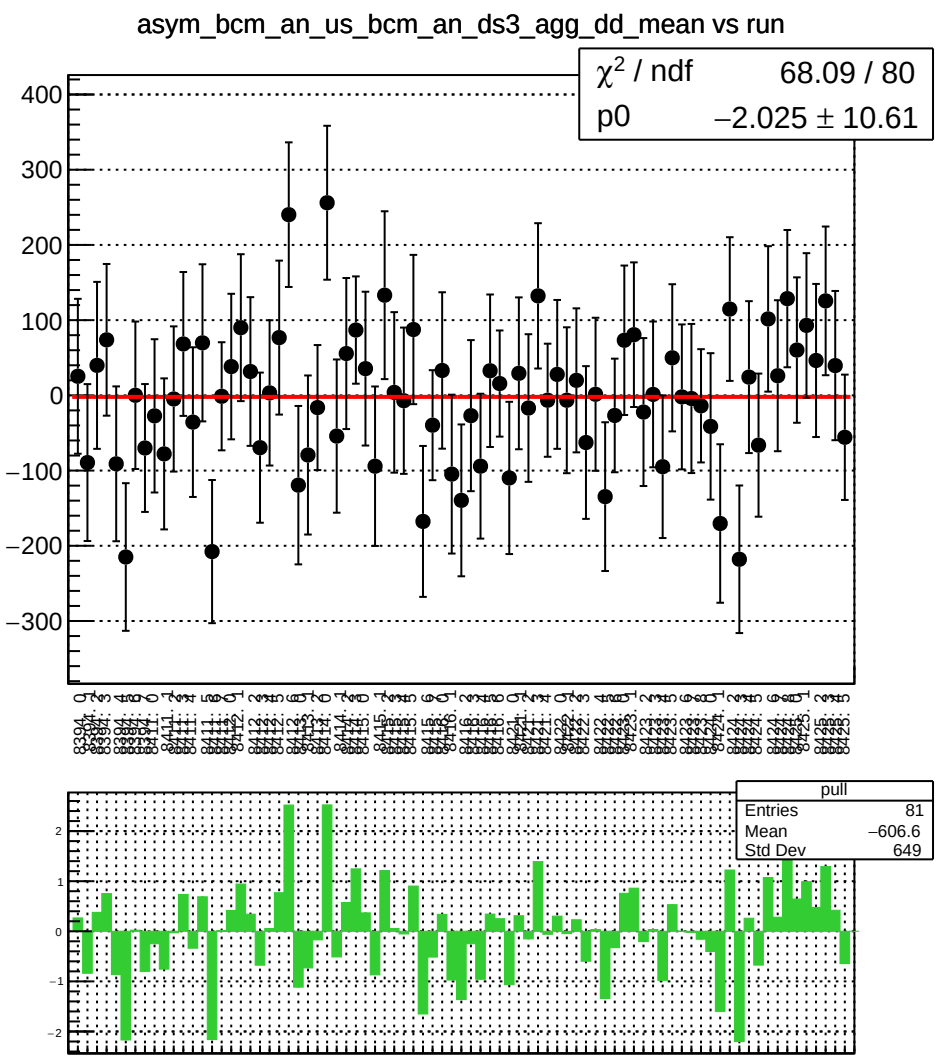

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 66.34 / 80
p0 5.664 ± 11.03
pull
Entries 81
Mean 193.5
Std Dev 152.9
pull1D
Entries 81
Mean 0.0108
Std Dev 0.9049

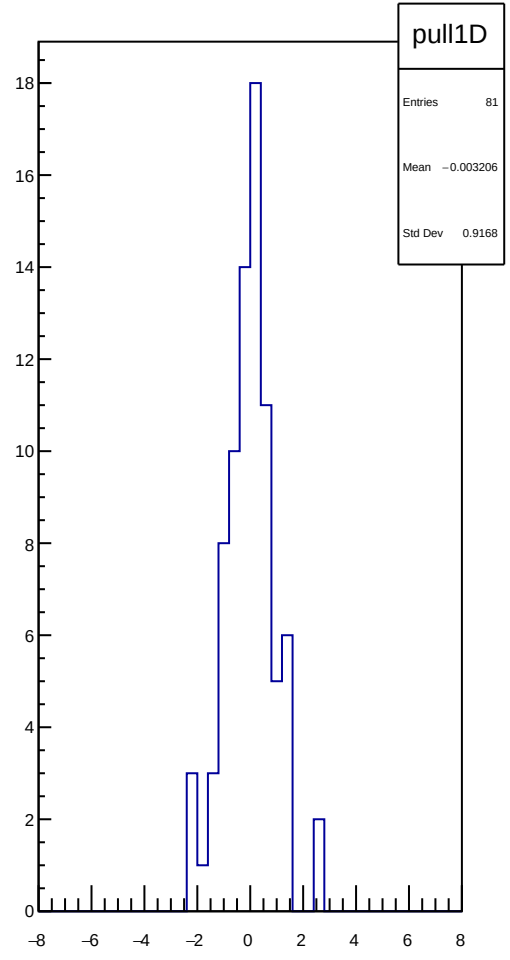

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1679 / 80
p0 9.848 ± 0.007803
11.2
11
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2

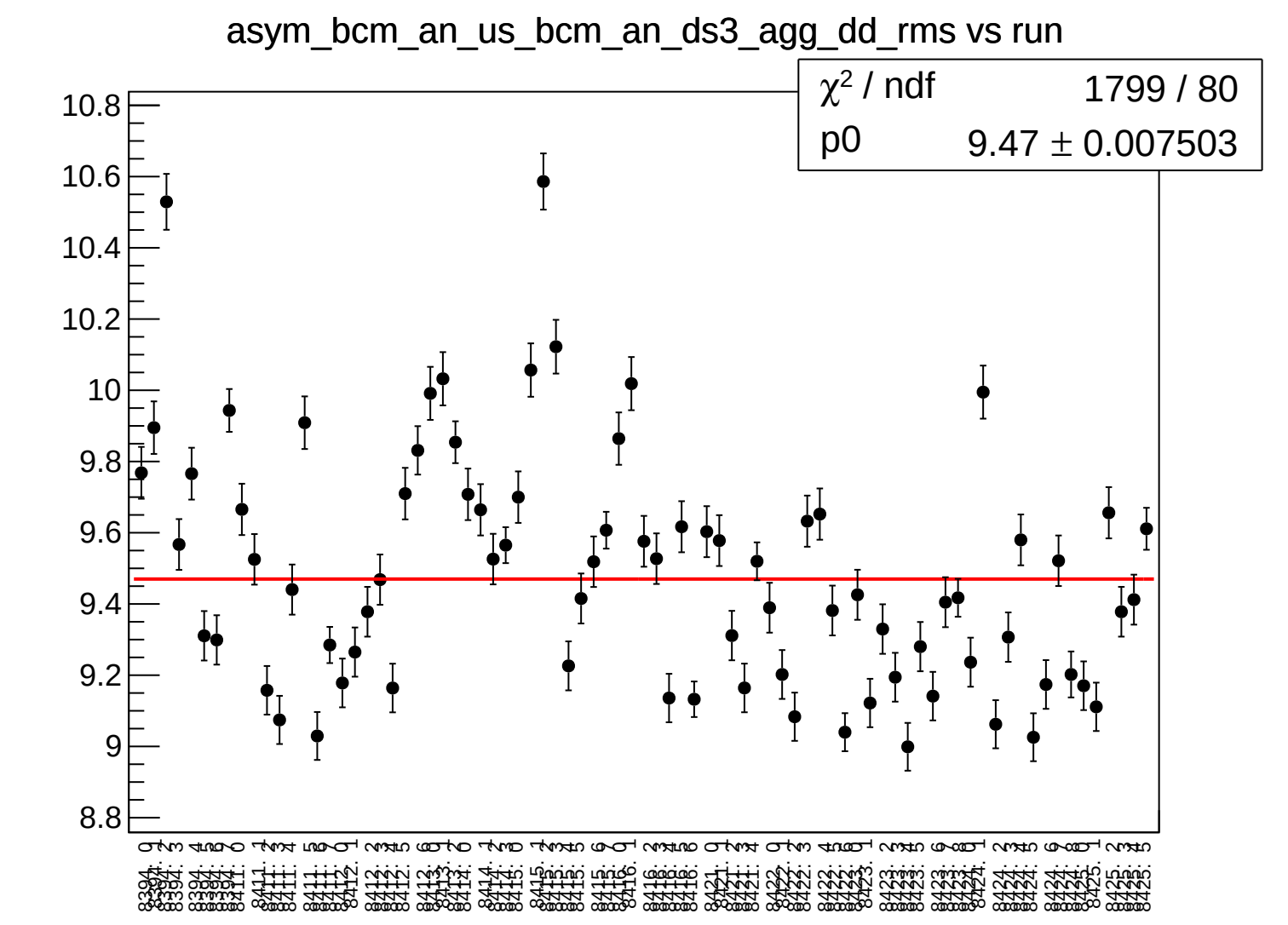

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 10.48 / 80
p0 147.4 ± 223.4
pull
Entries 81
Mean −1408
Std Dev 1457

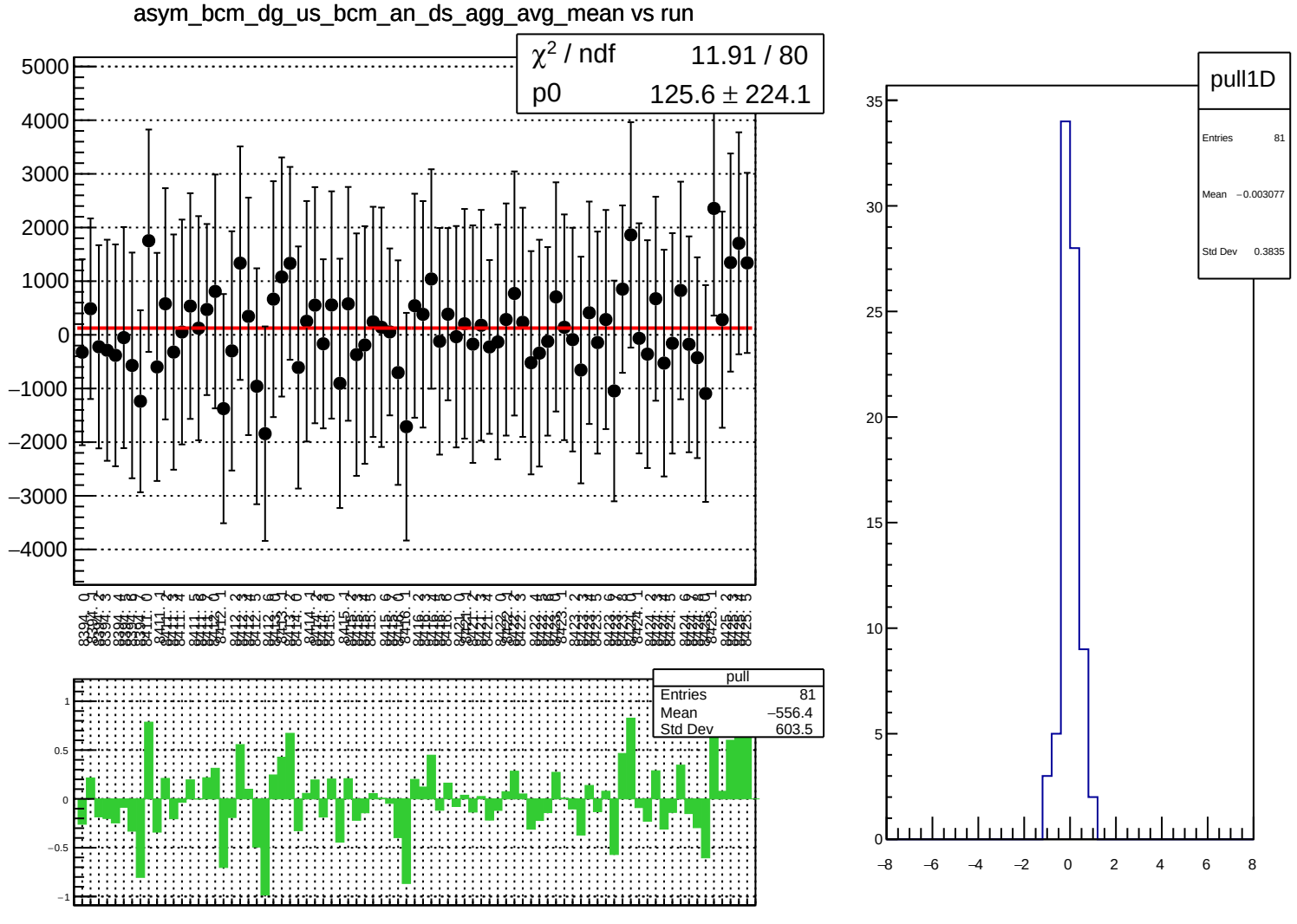

pull1D
Entries 81
Mean −0.001328
Std Dev 0.3596

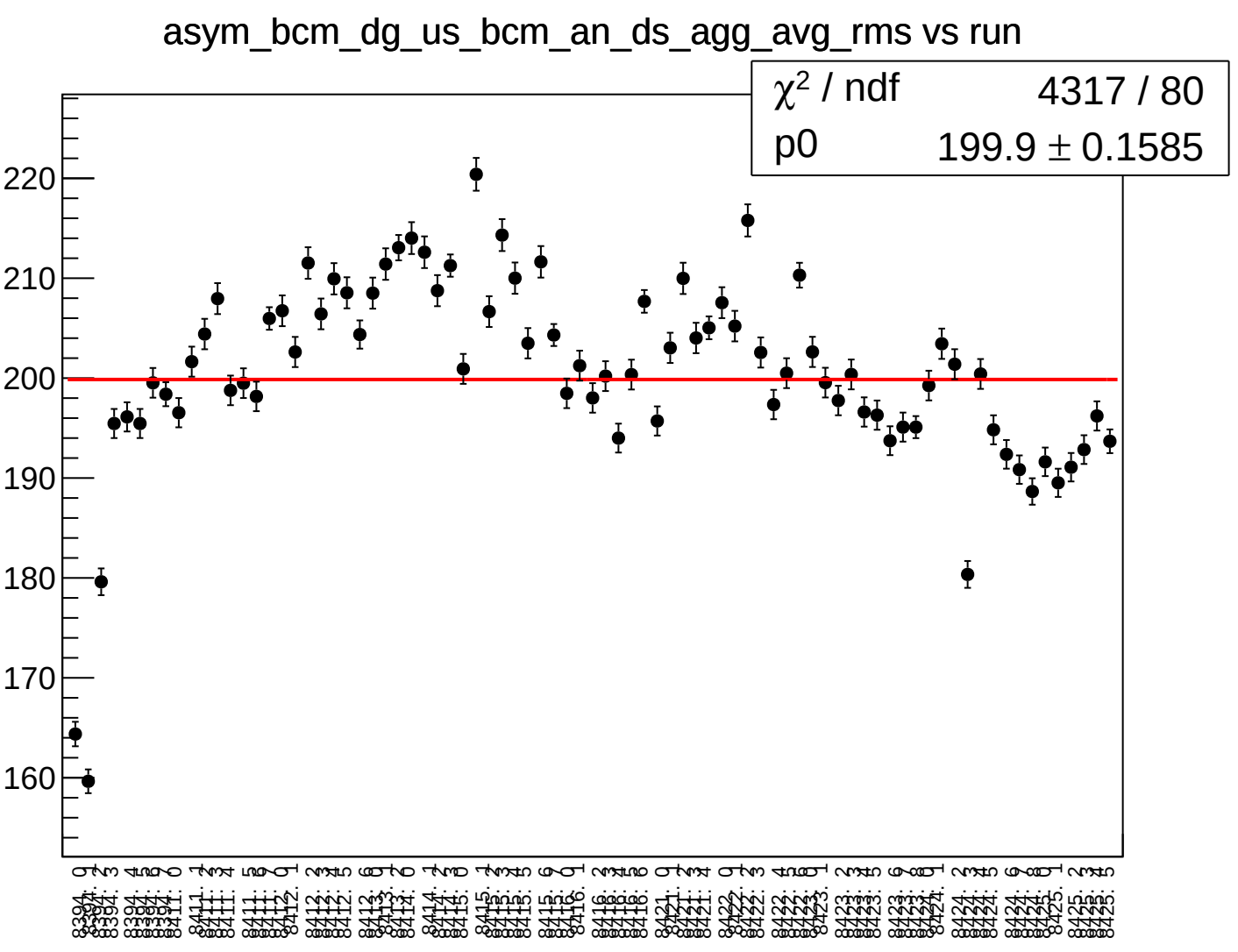

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 4112 / 80
p0 199.2 ± 0.1579
220
210
200
190
180
170
160

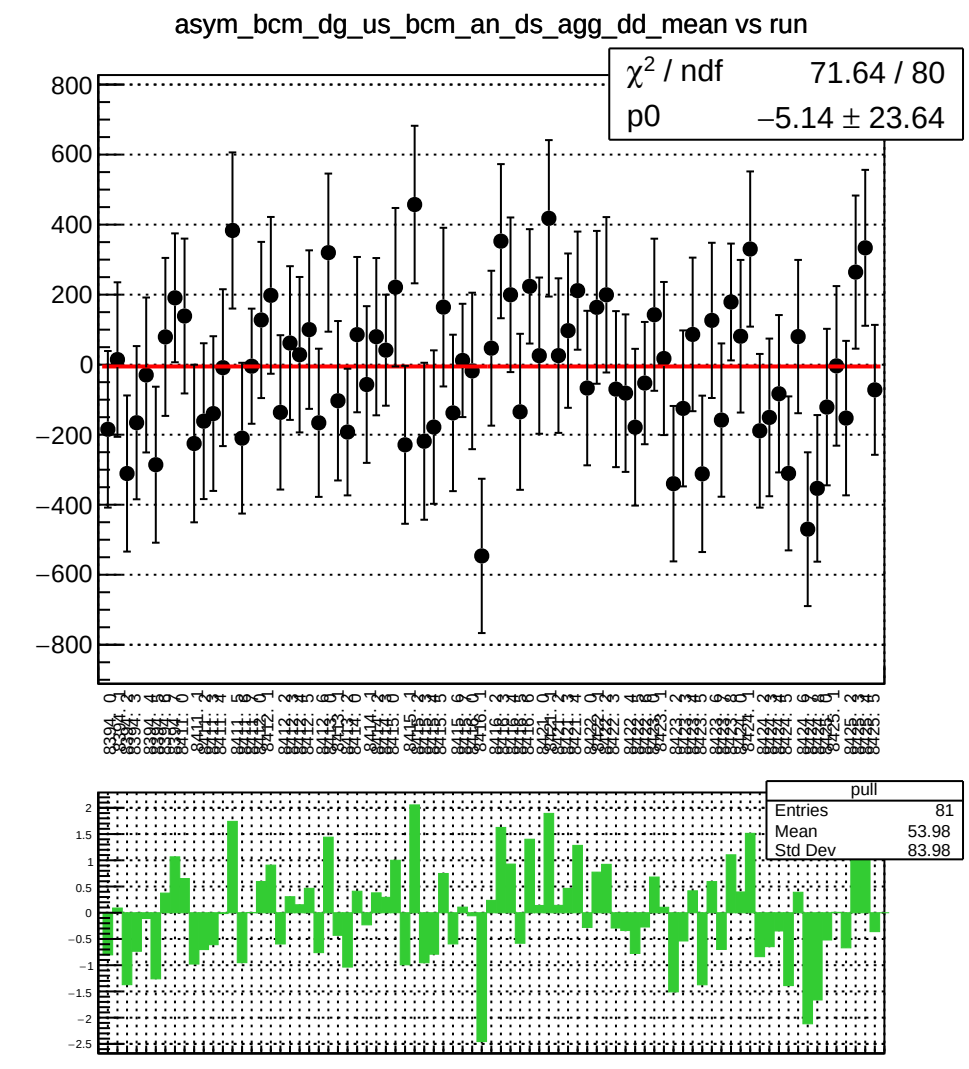

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 68.09 / 80
p0 −2.025 ± 10.61
pull
Entries 81
Mean −606.6
Std Dev 649

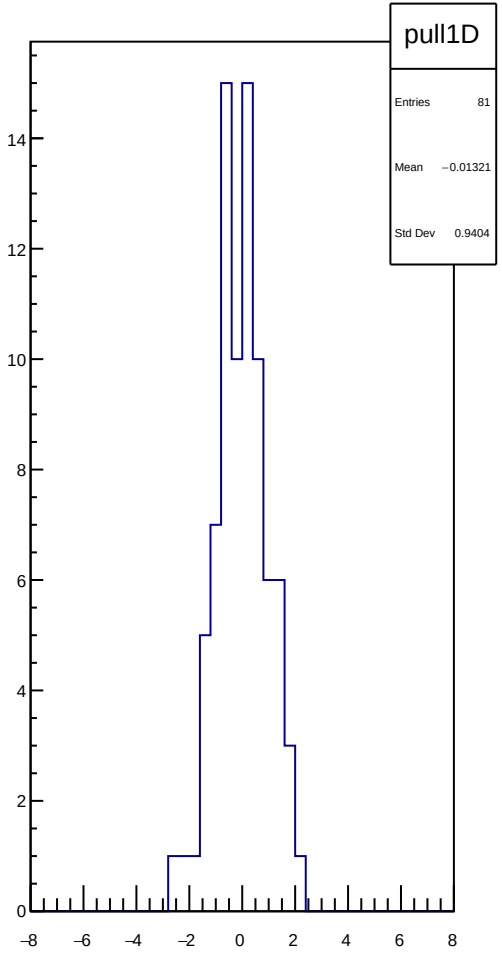

pull1D
Entries 81
Mean −0.003206
Std Dev 0.9168

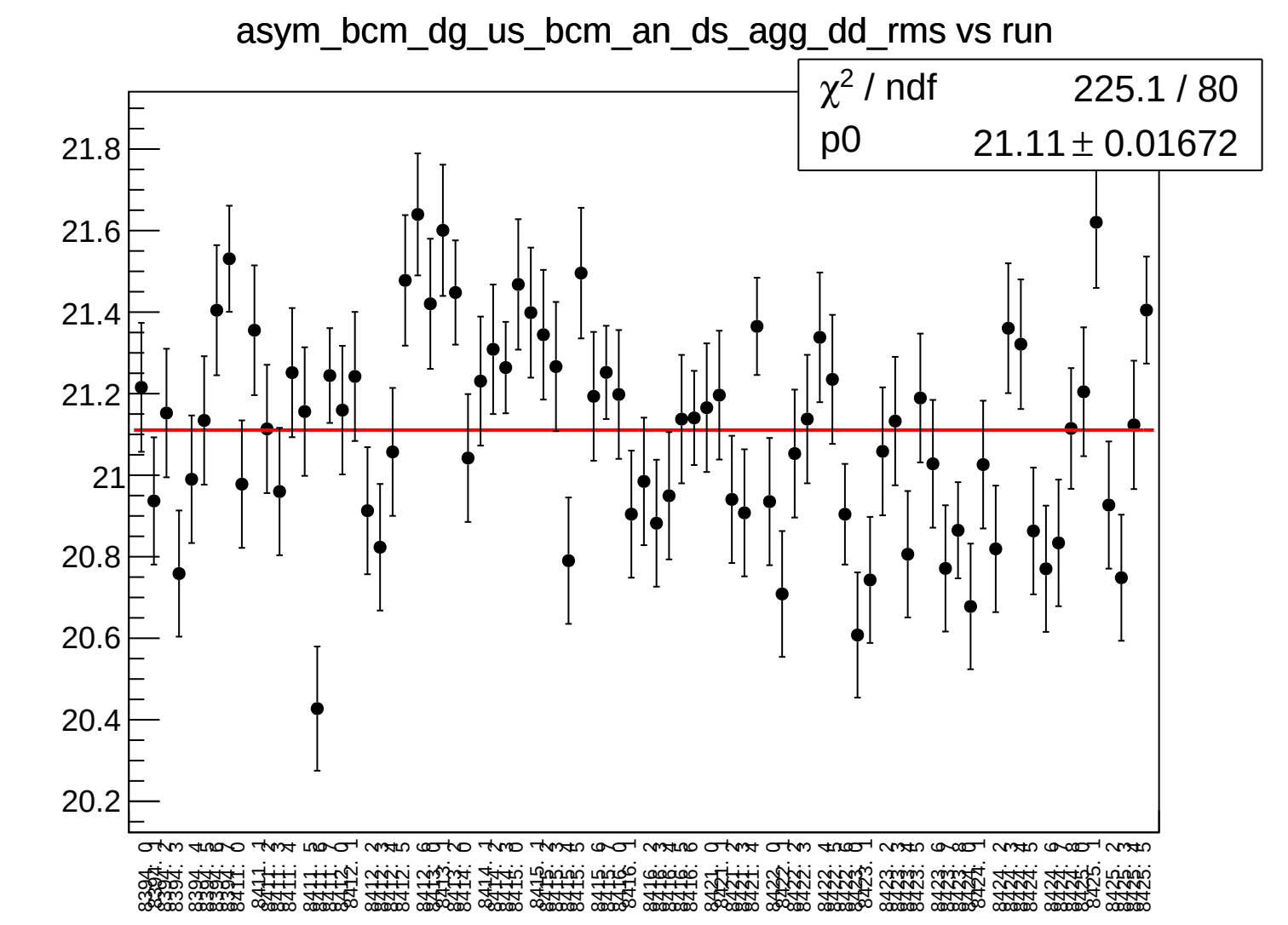

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1799 / 80
p0 9.47 ± 0.007503
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2
9
8.8

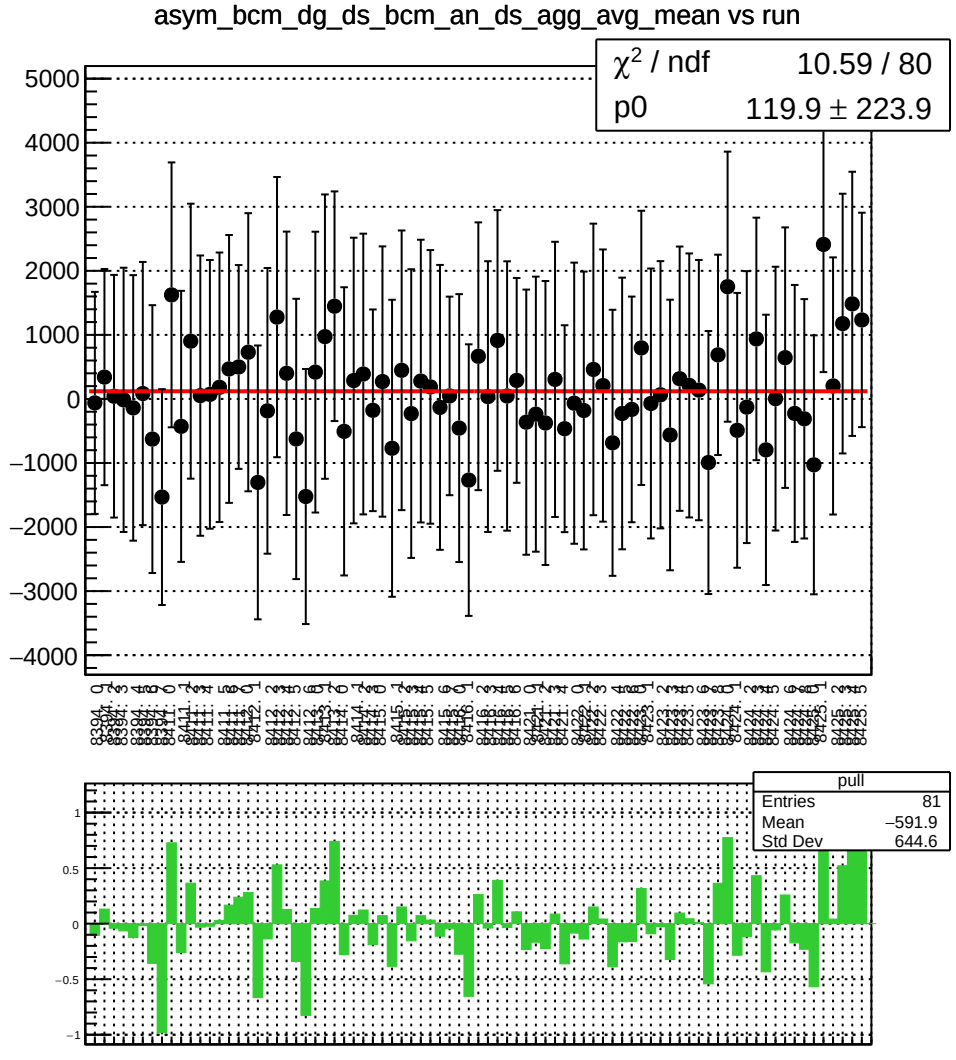

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.91 / 80
p0 125.6 ± 224.1
pull
Entries 81
Mean −556.4
Std Dev 603.5
pull1D
Entries 81
Mean −0.003077
Std Dev 0.3835

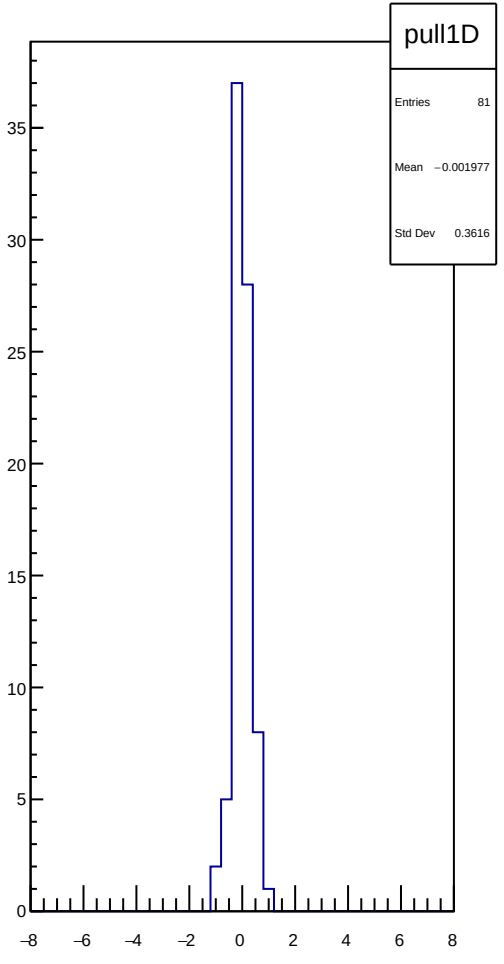

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4317 / 80
p0 199.9 ± 0.1585
220
210
200
190
180
170
160

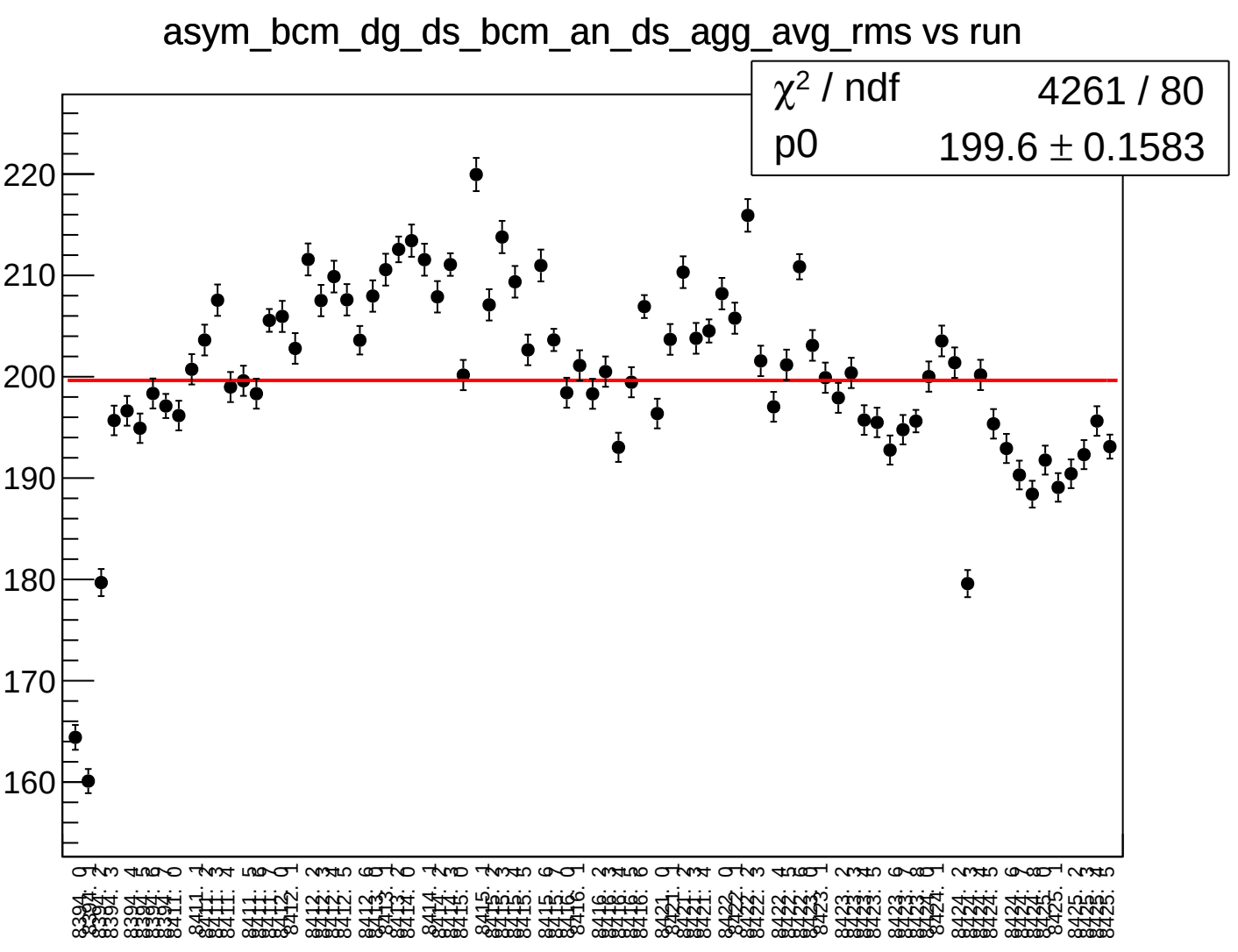

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 71.64 / 80
p0 −5.14 ± 23.64
pull
Entries 81
Mean 53.98
Std Dev 83.98

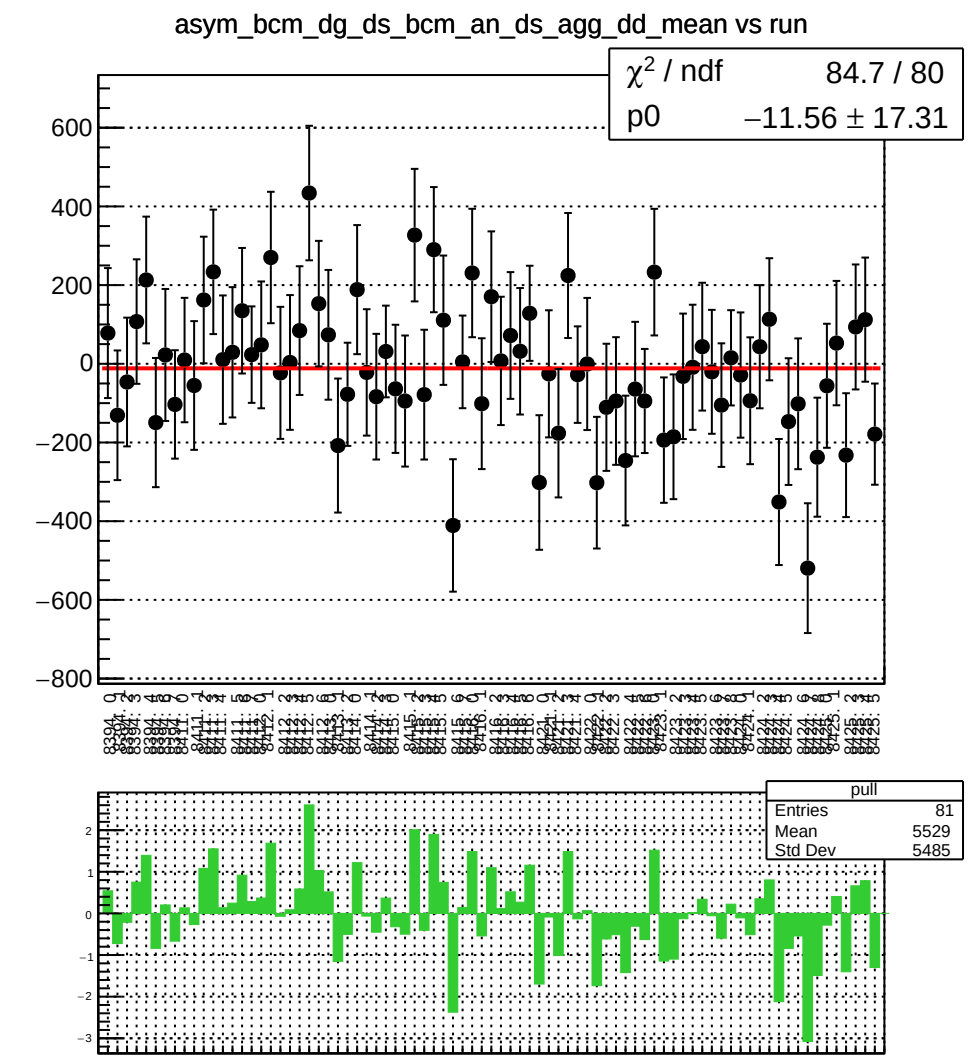

pull1D
Entries 81
Mean −0.01321
Std Dev 0.9404

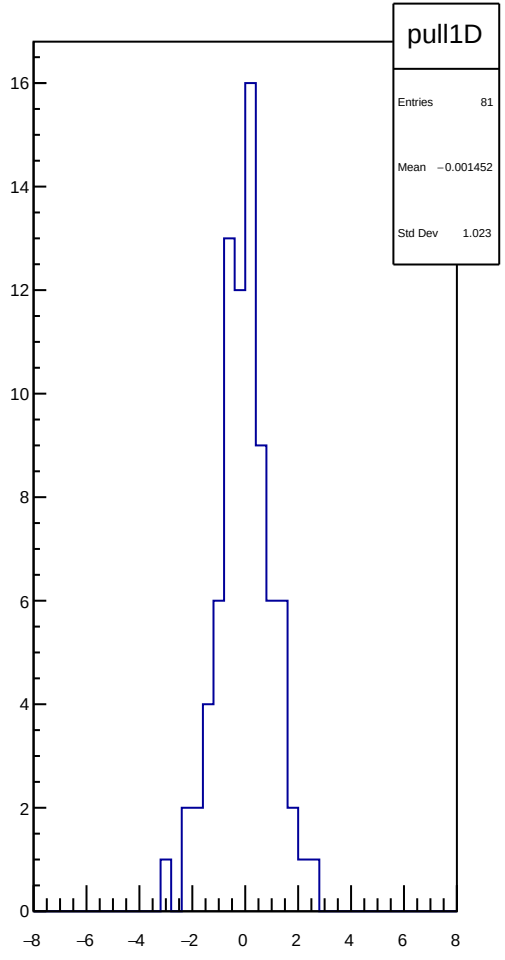

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 225.1 / 80
p0 21.11 ± 0.01672
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2

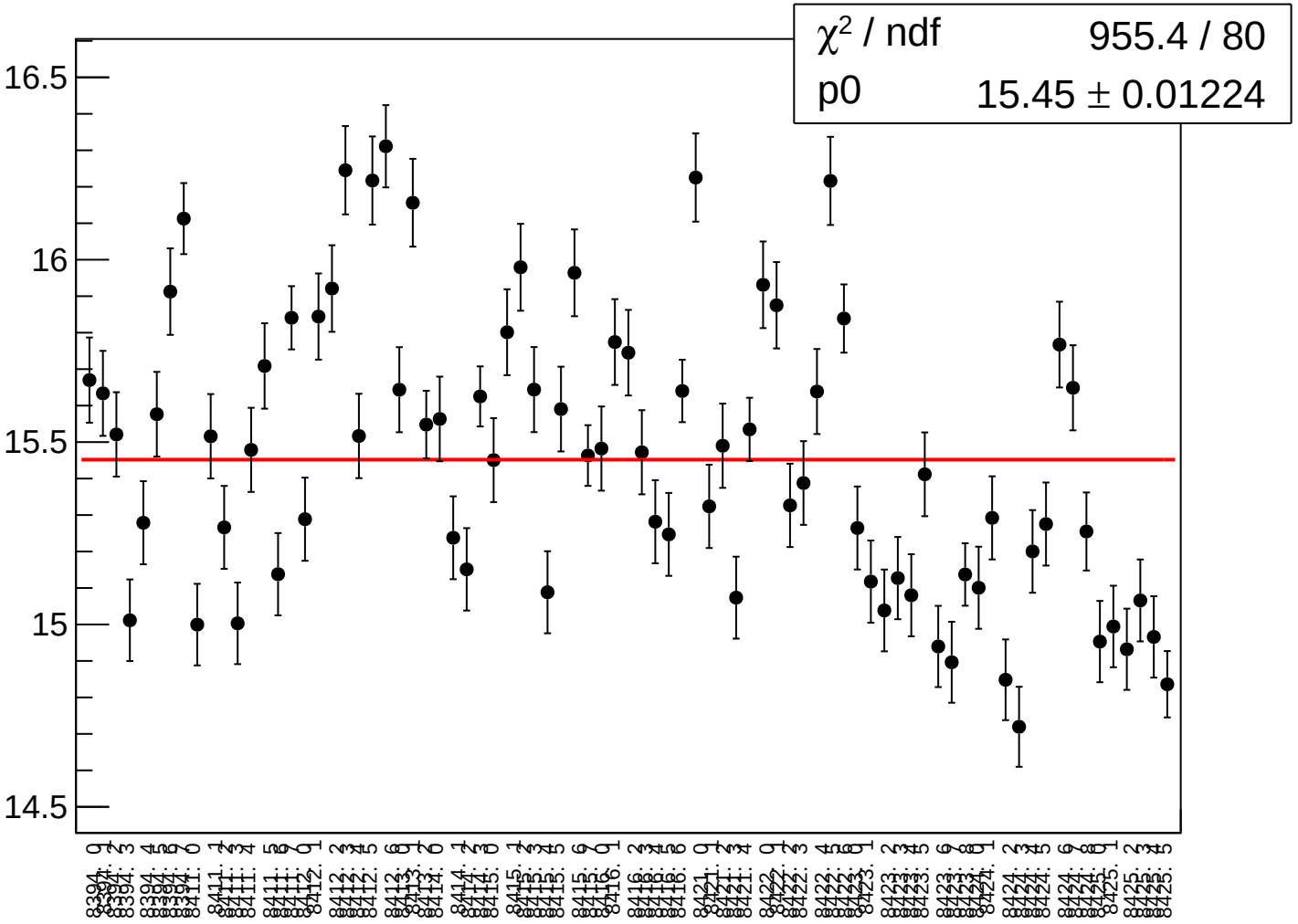

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.59 / 80
p0 119.9 ± 223.9
pull
Entries 81
Mean −591.9
Std Dev 644.6

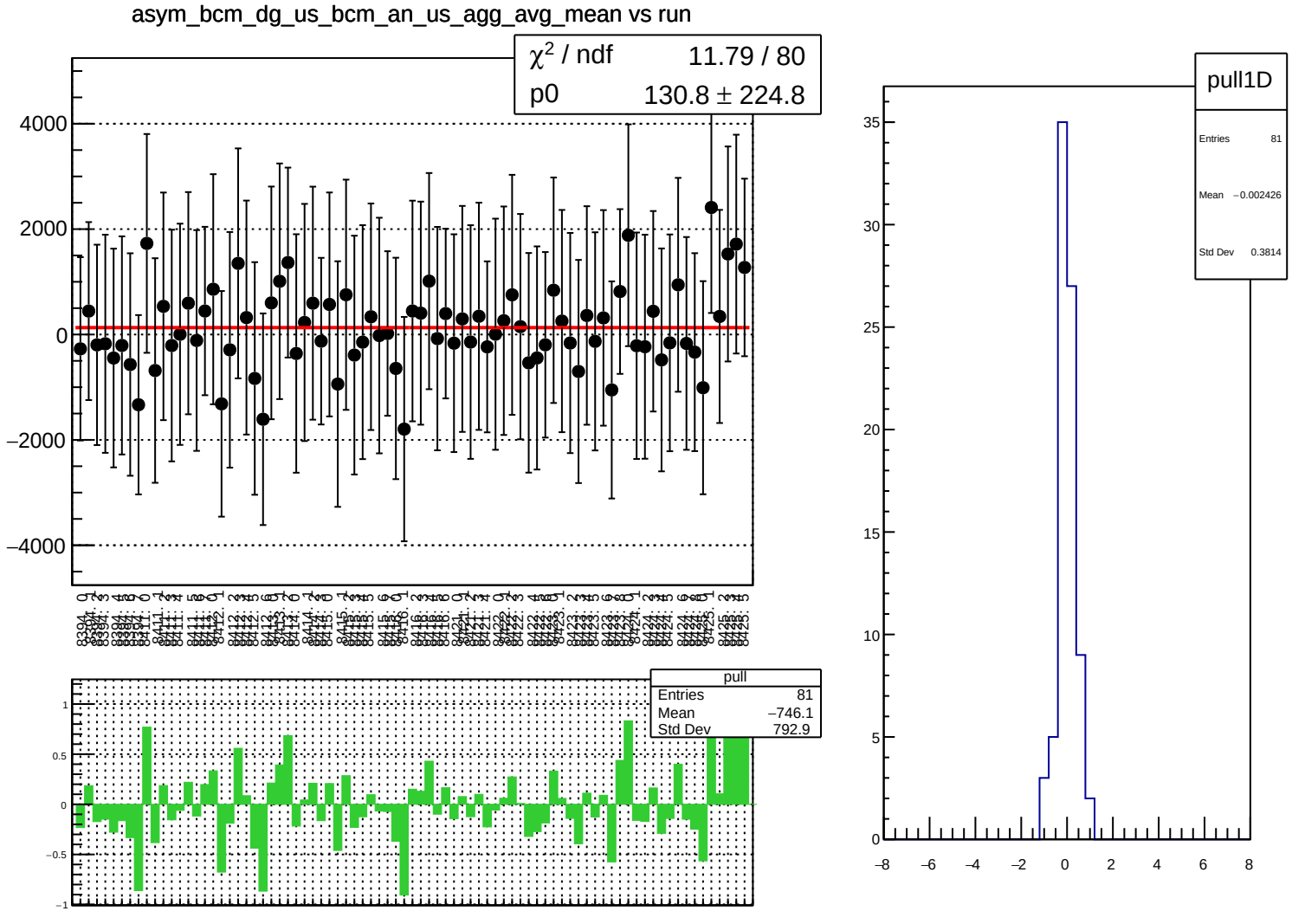

pull1D
Entries 81
Mean −0.001977
Std Dev 0.3616

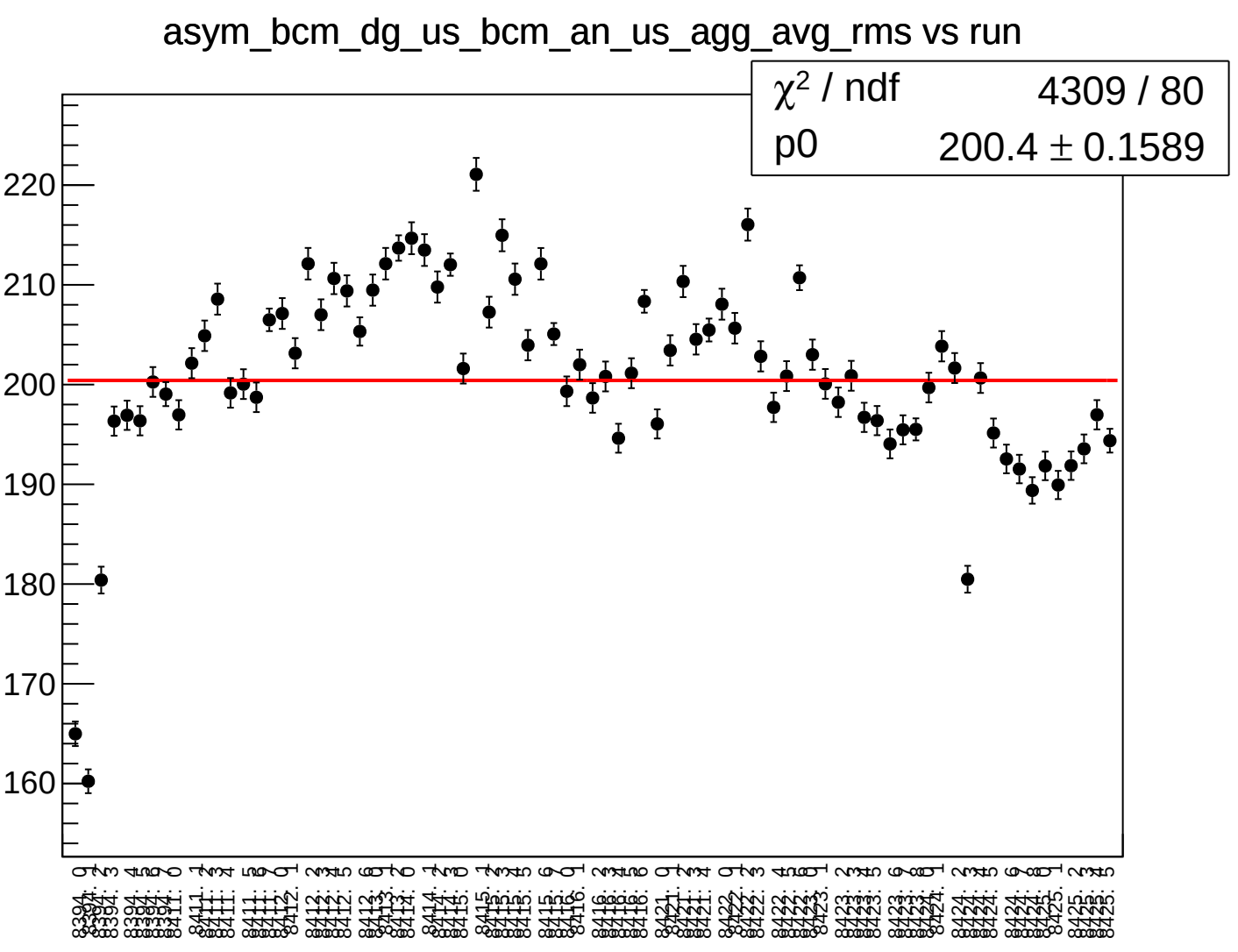

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4261 / 80
p0 199.6 ± 0.1583
220
210
200
190
180
170
160

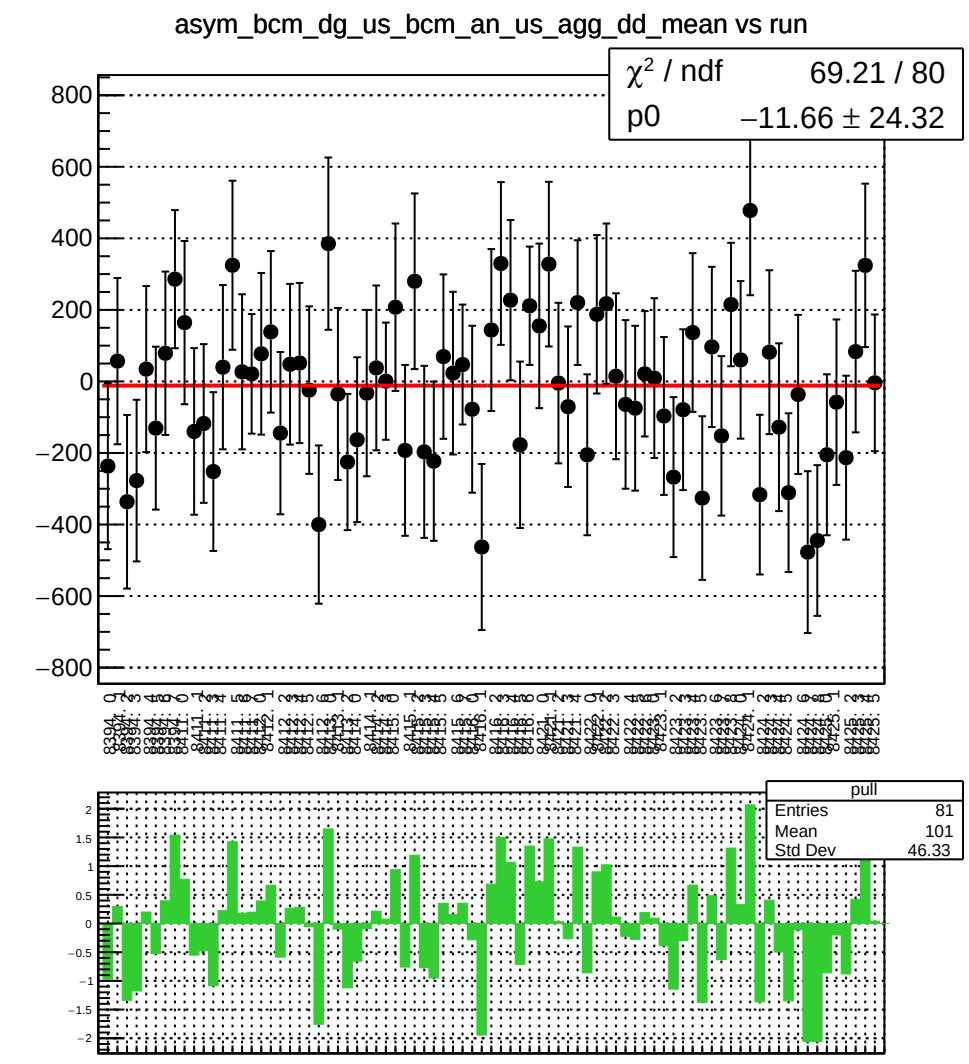

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 84.7 / 80
p0 −11.56 ± 17.31
pull
Entries 81
Mean 5529
Std Dev 5485

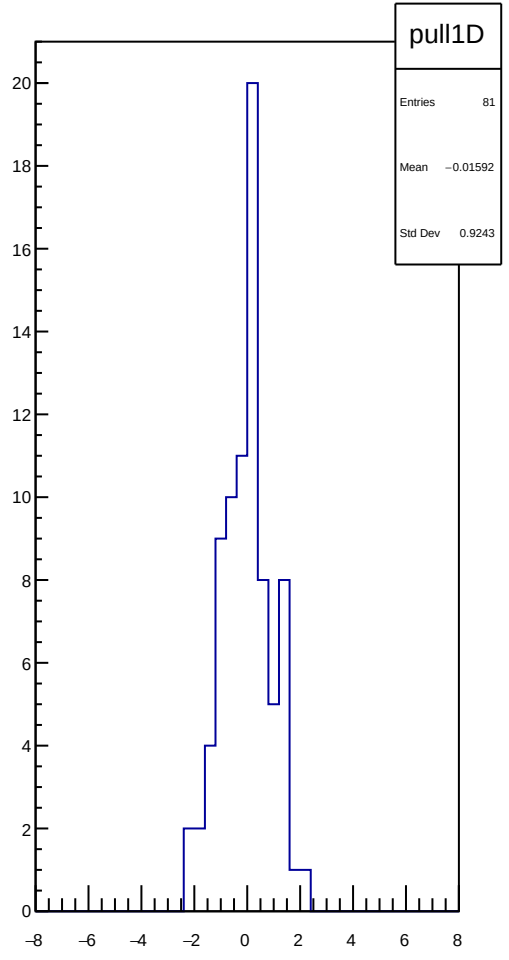

pull1D
Entries 81
Mean −0.001452
Std Dev 1.023

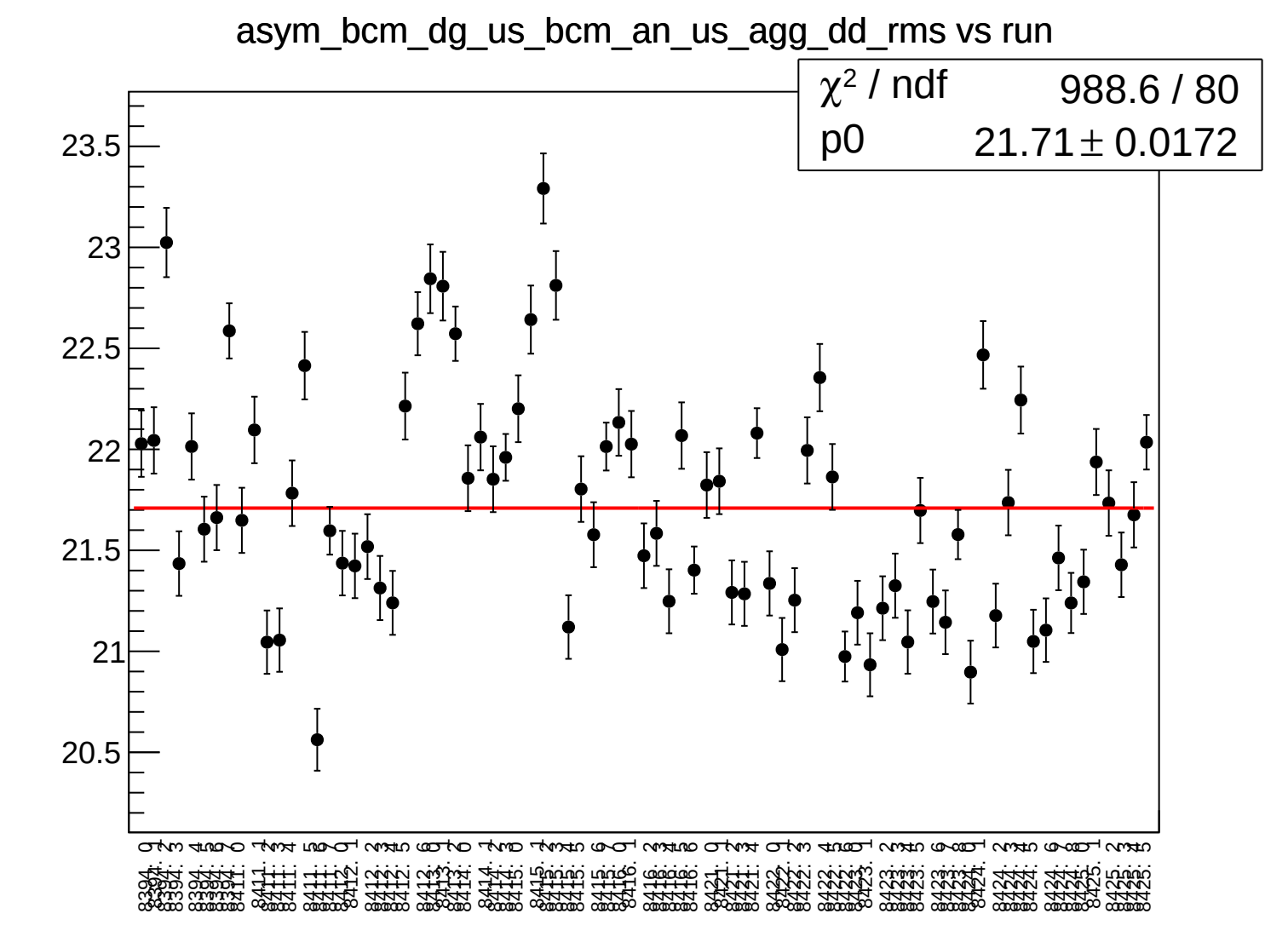

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 955.4 / 80
p0 15.45 ± 0.01224
16.5
16
15.5
15
14.5

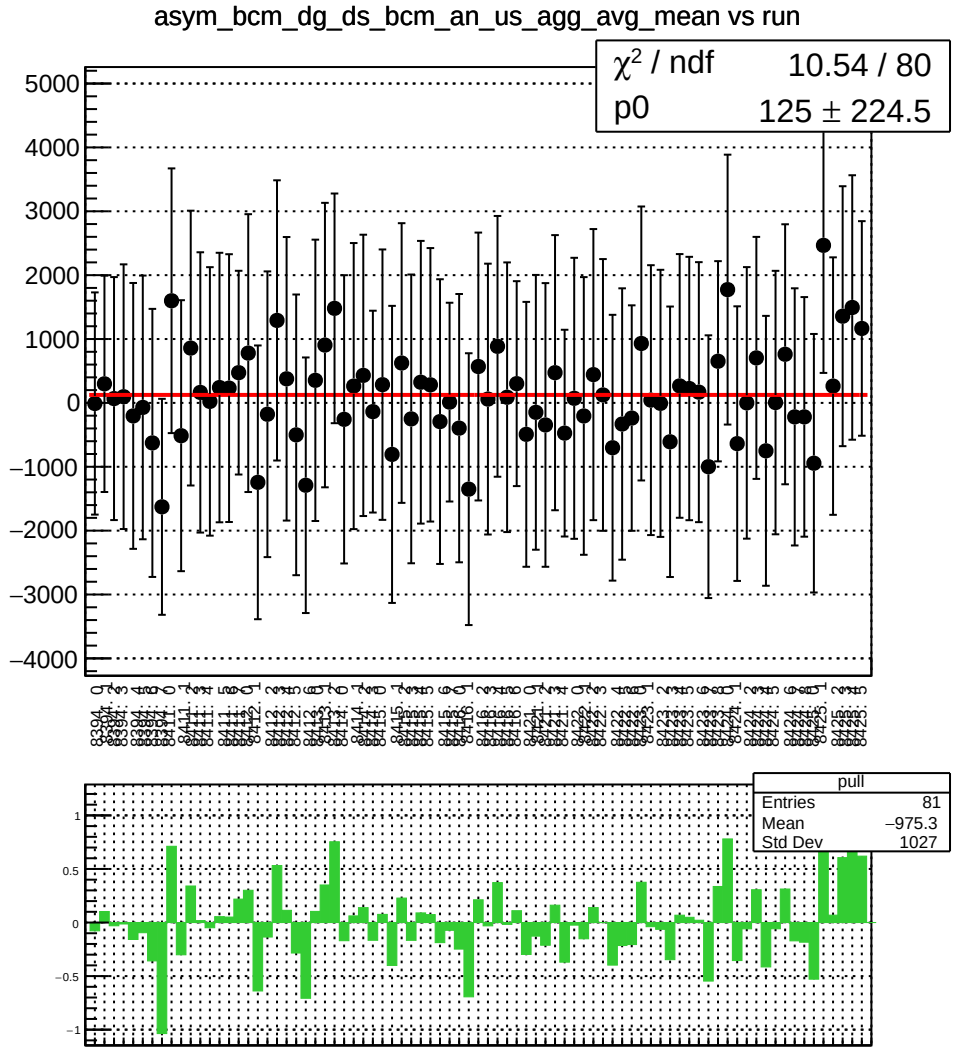

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 11.79 / 80
p0 130.8 ± 224.8
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −746.1
Std Dev 792.9
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean −0.002426
Std Dev 0.3814
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

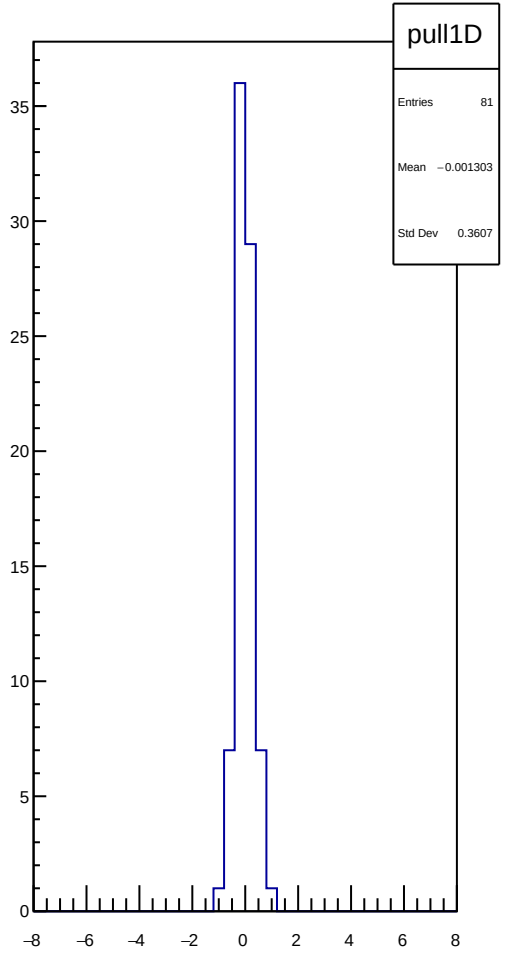

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4309 / 80
p0 200.4 ± 0.1589
220
210
200
190
180
170
160

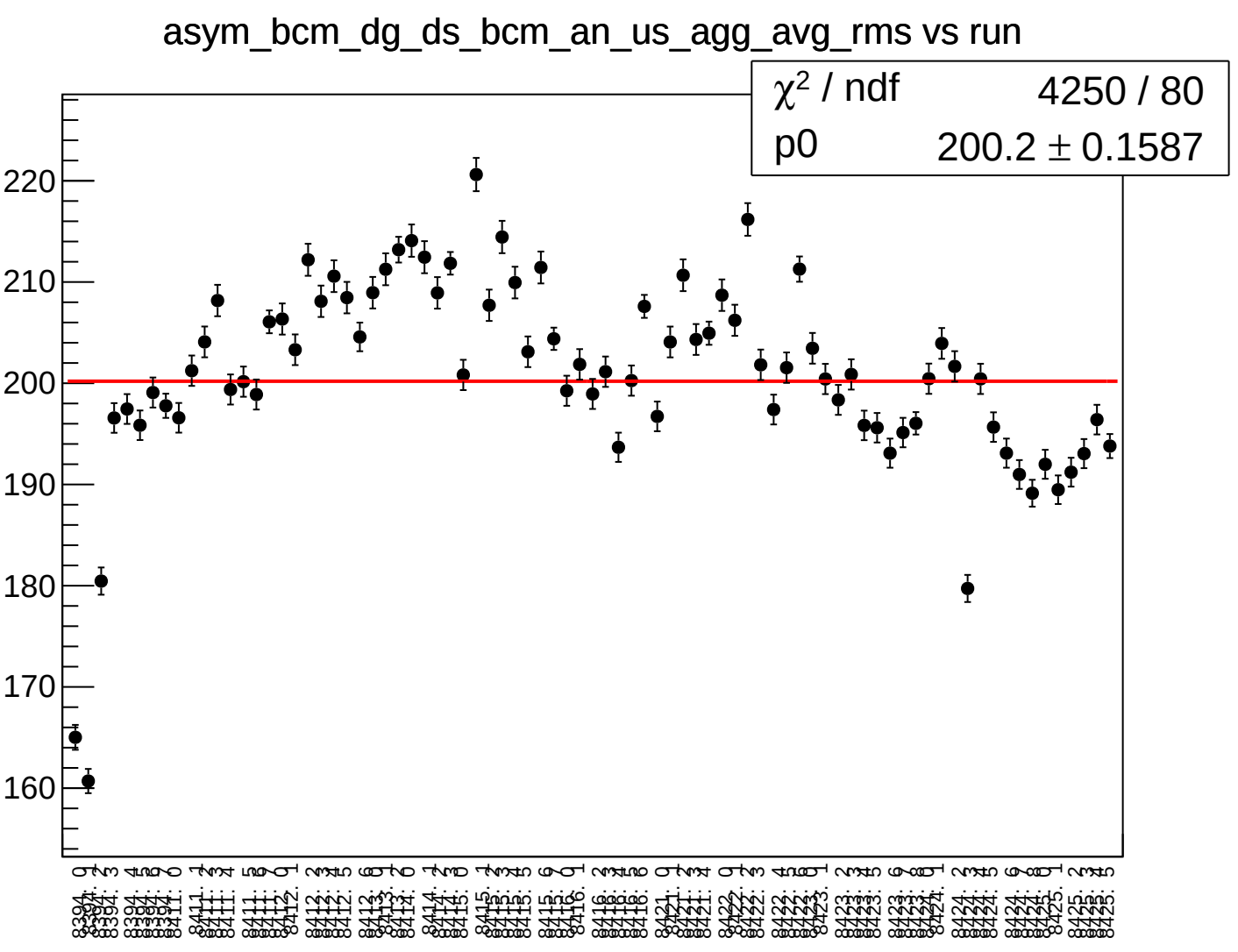

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 69.21 / 80
p0 −11.66 ± 24.32
pull
Entries 81
Mean 101
Std Dev 46.33

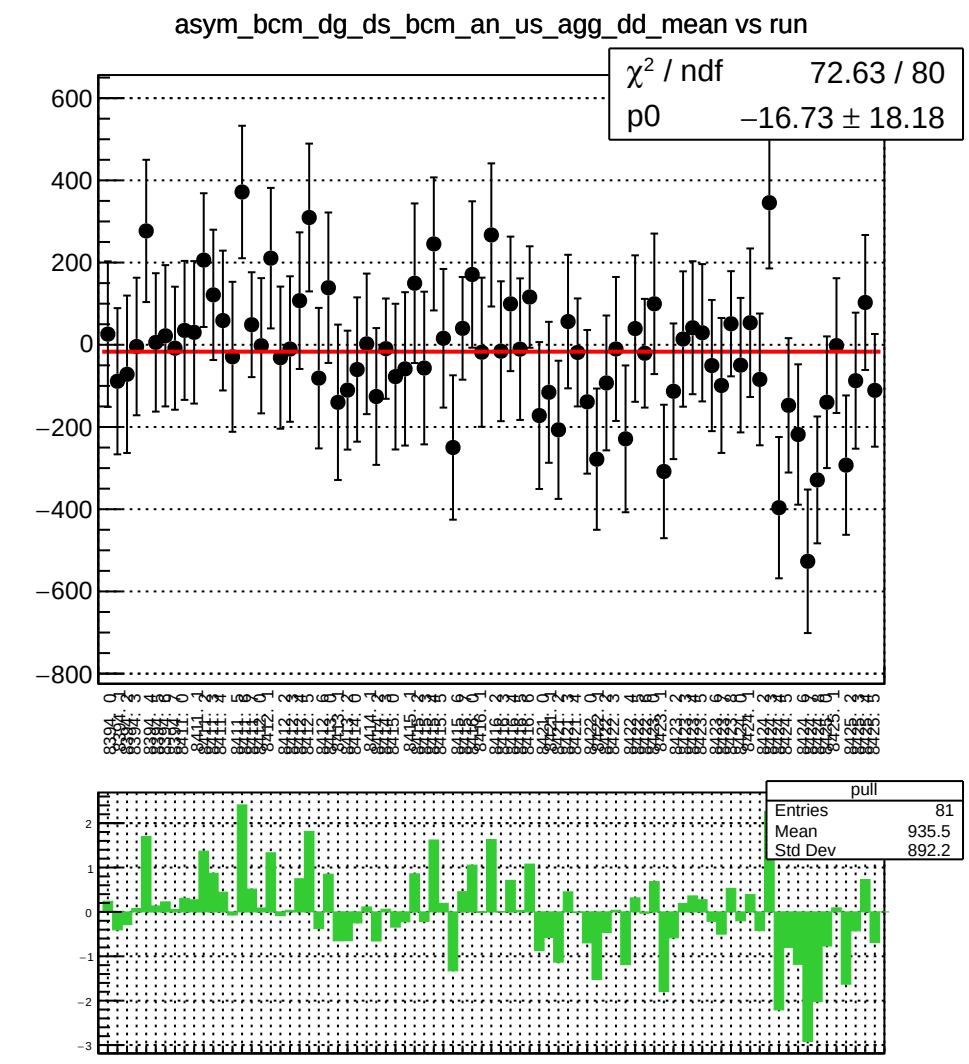

pull1D
Entries 81
Mean −0.01592
Std Dev 0.9243

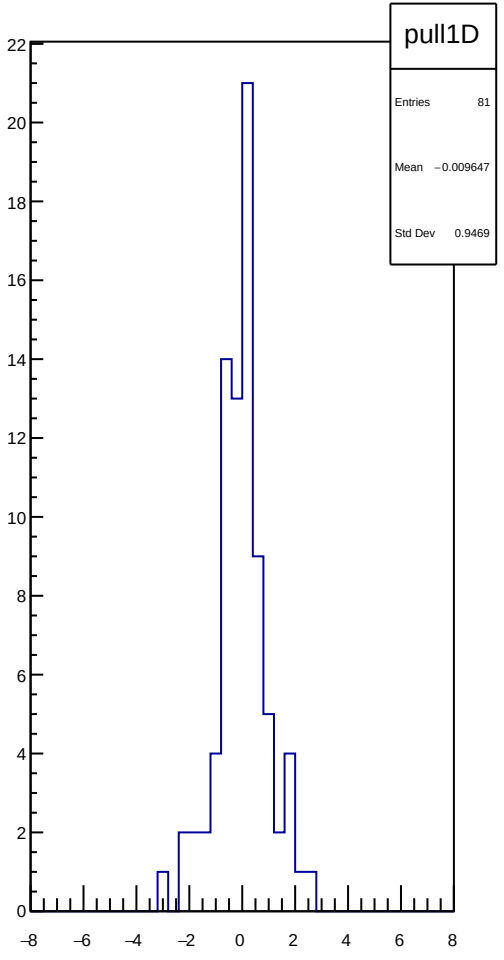

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 988.6 / 80
p0 21.71 ± 0.0172
23.5
23
22.5
22
21.5
21
20.5

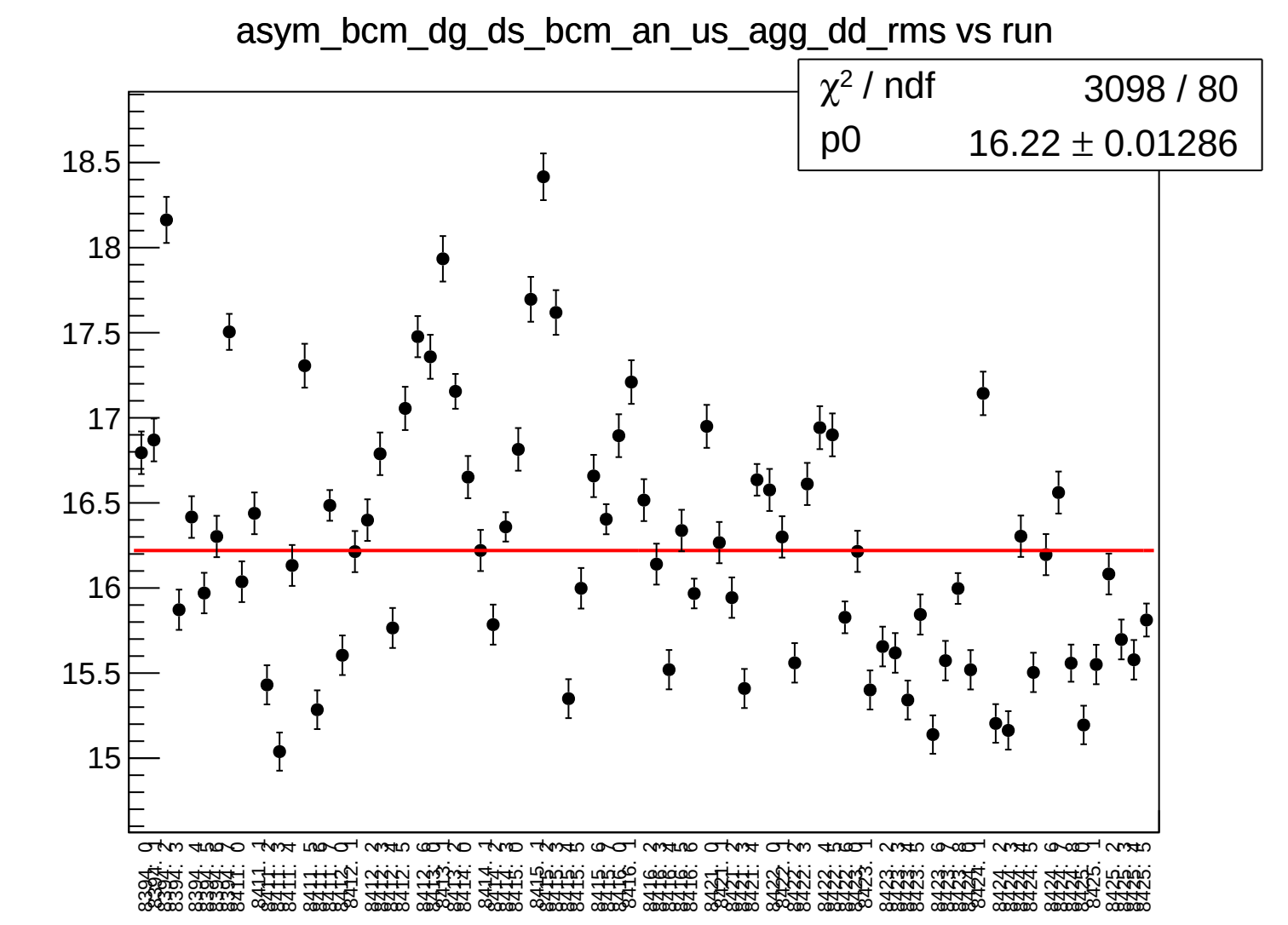

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.54 / 80
p0 125 ± 224.5
pull
Entries 81
Mean −975.3
Std Dev 1027

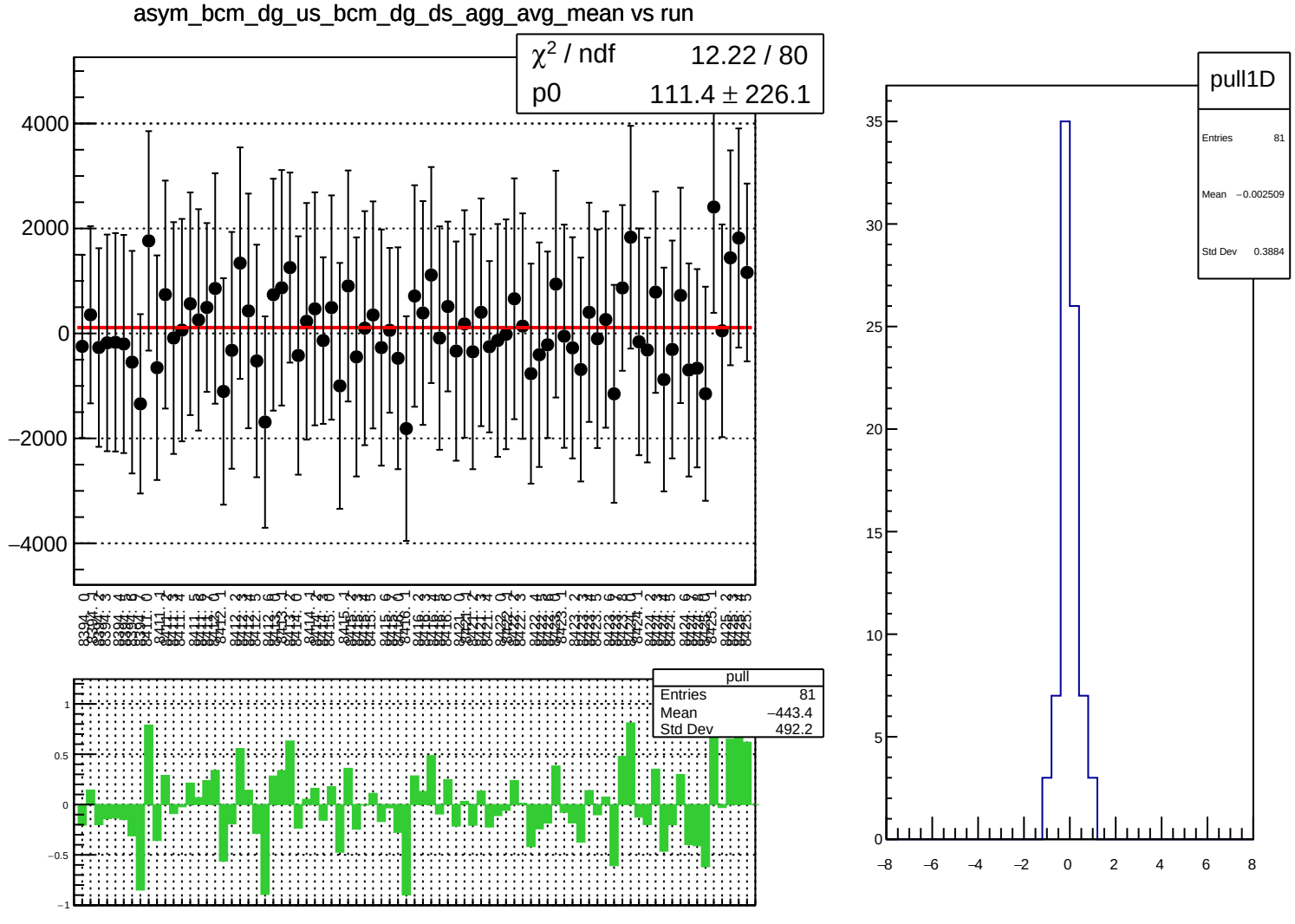

pull1D
Entries 81
Mean −0.001303
Std Dev 0.3607

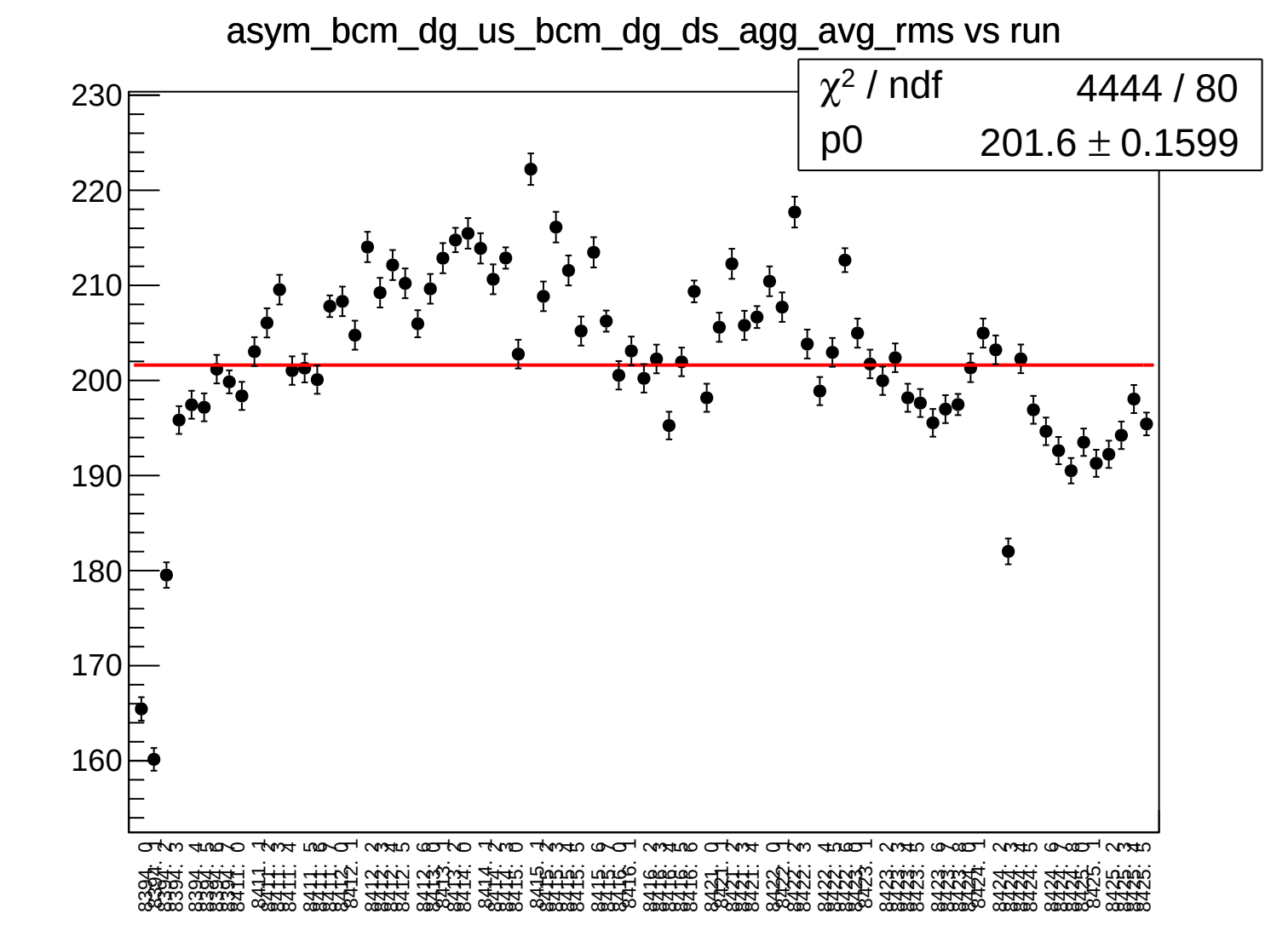

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4250 / 80
p0 200.2 ± 0.1587
220
210
200
190
180
170
160

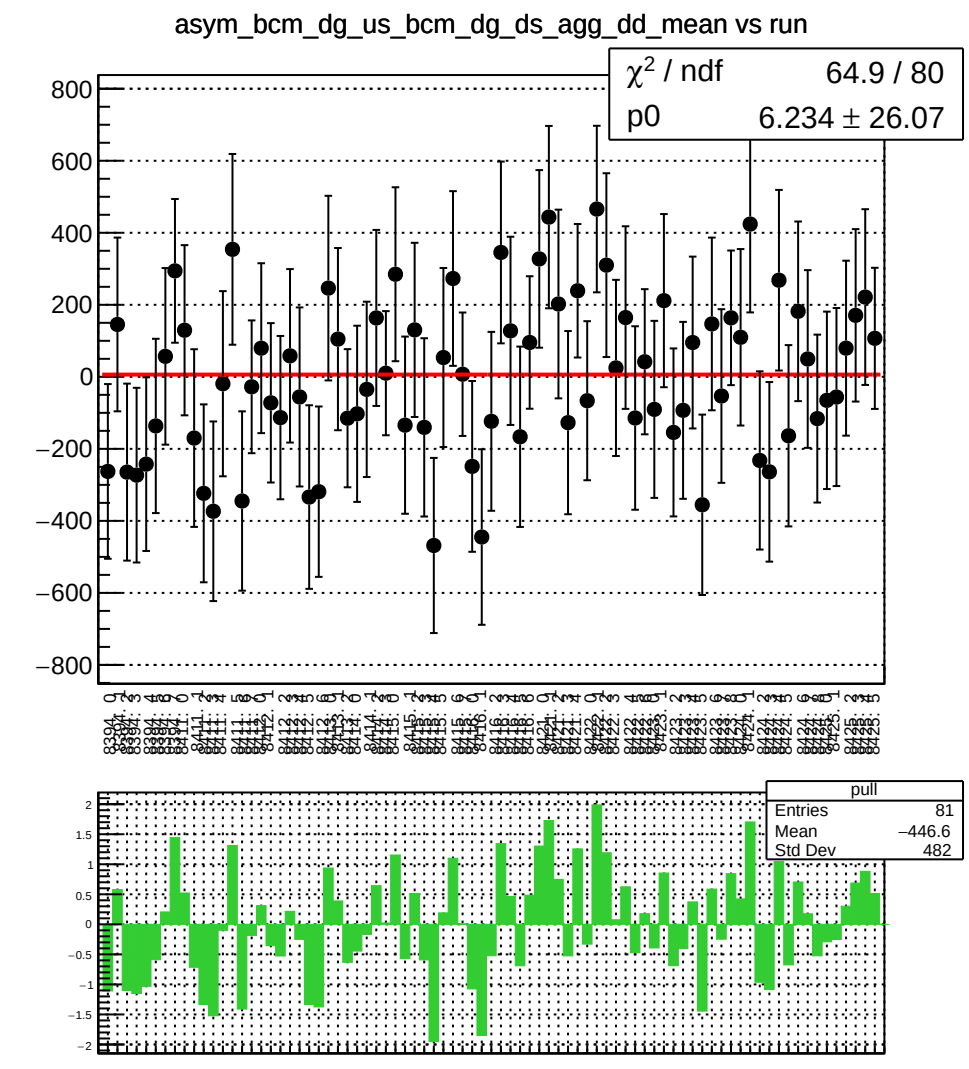

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 72.63 / 80
p0 −16.73 ± 18.18
pull
Entries 81
Mean 935.5
Std Dev 892.2

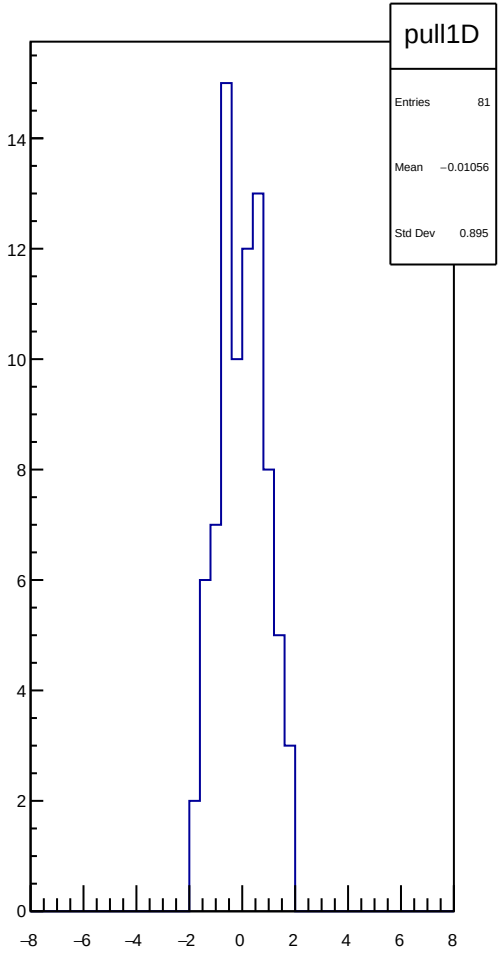

pull1D
Entries 81
Mean −0.009647
Std Dev 0.9469

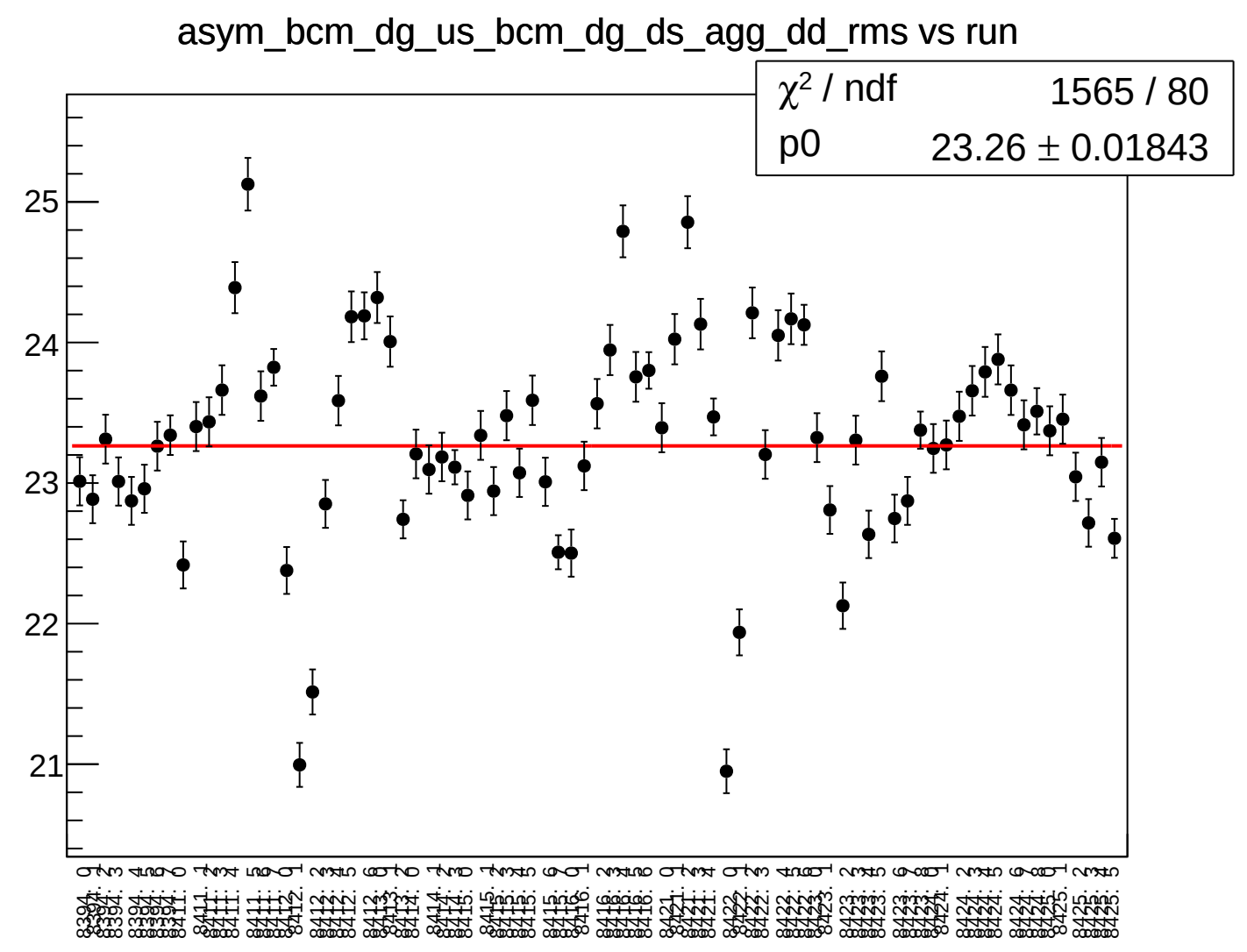

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3098 / 80
p0 16.22 ± 0.01286
18.5
18
17.5
17
16.5
16
15.5
15

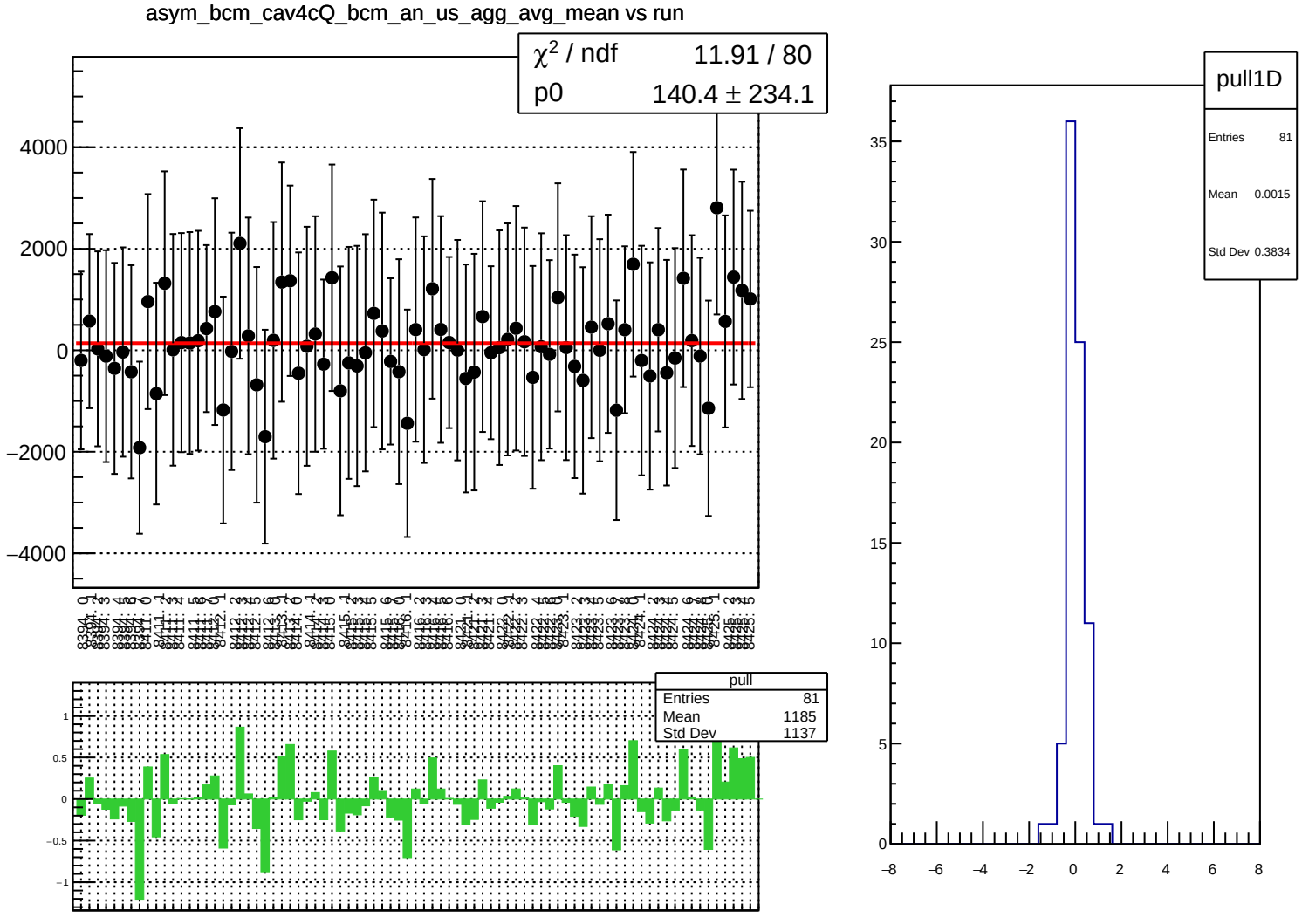

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 12.22 / 80
p0 111.4 ± 226.1
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −443.4
Std Dev 492.2
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean −0.002509
Std Dev 0.3884
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

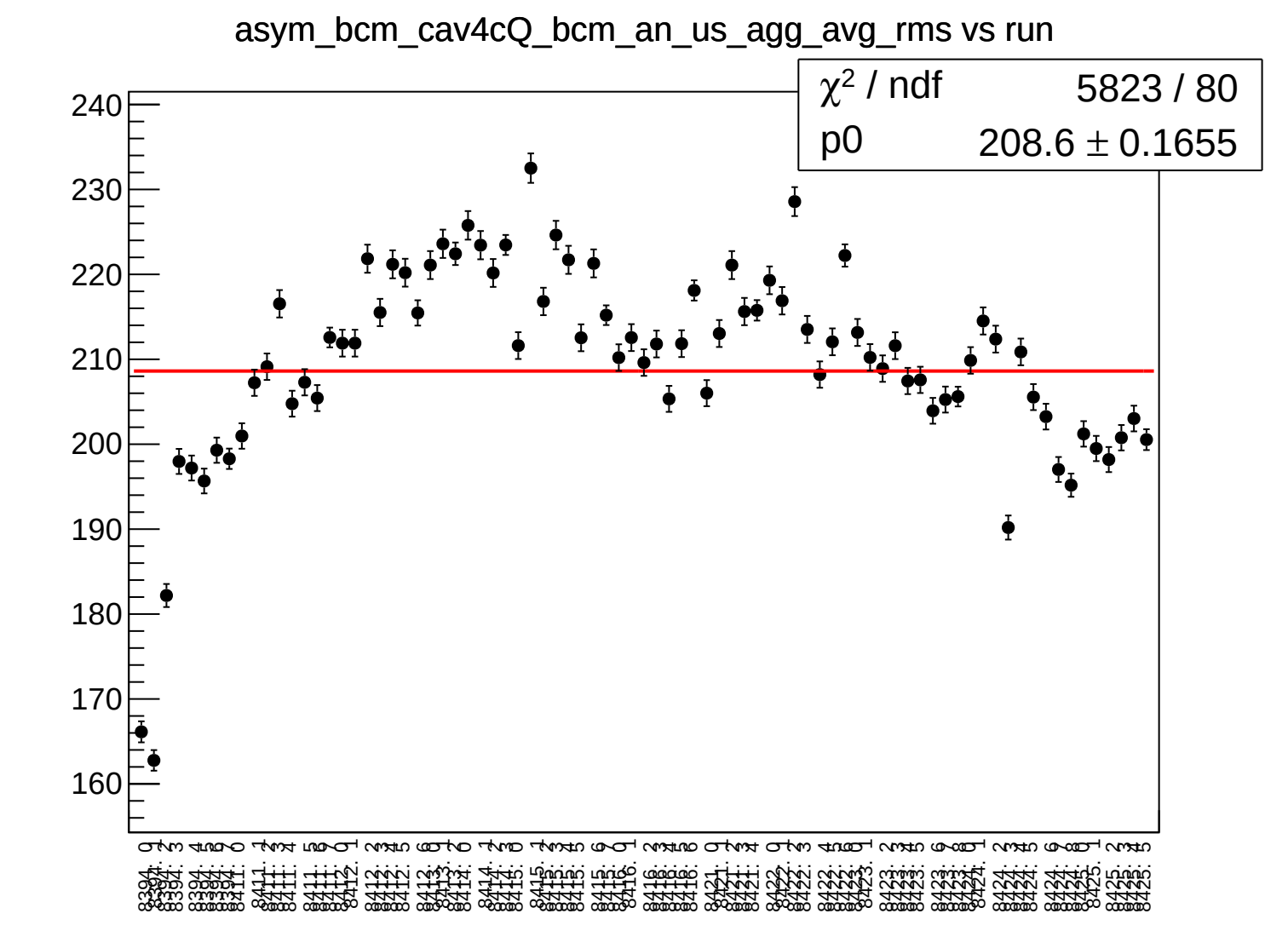

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4444 / 80
p0 201.6 ± 0.1599
230
220
210
200
190
180
170
160

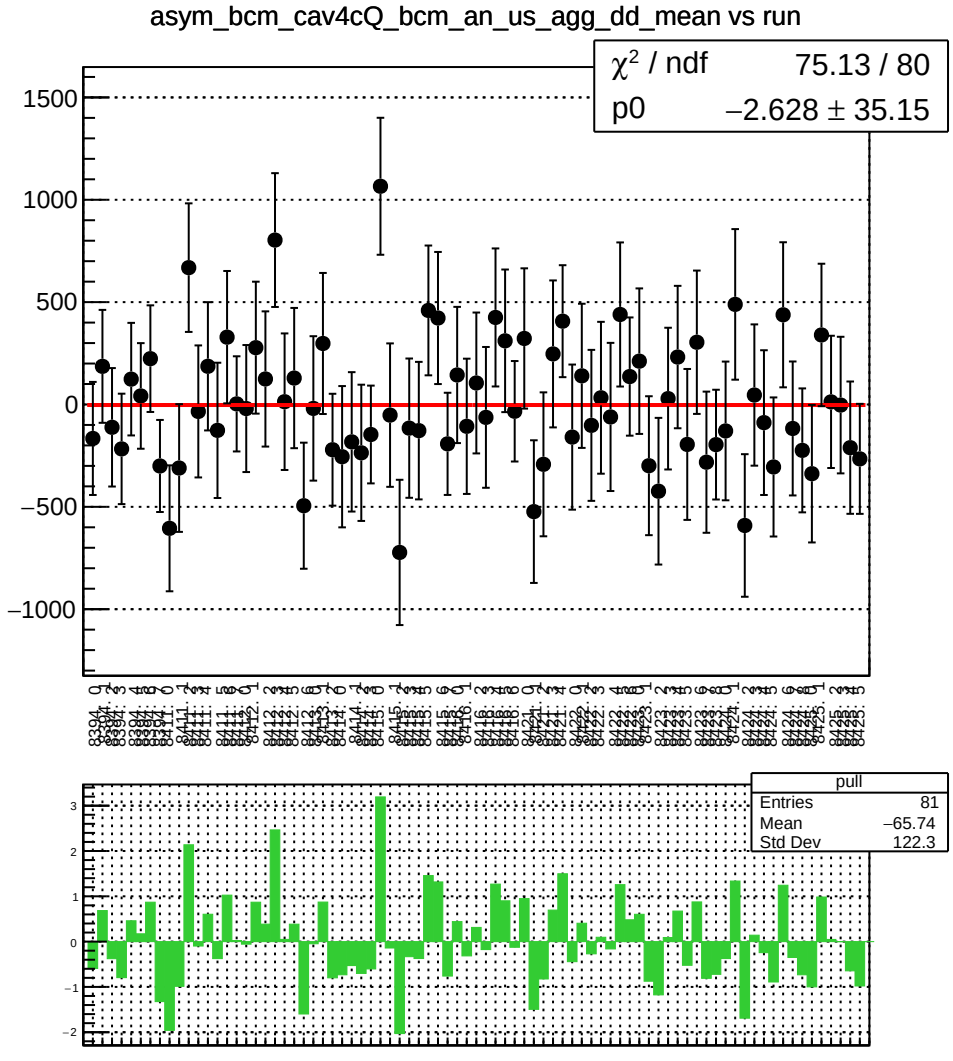

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 64.9 / 80
p0 6.234 ± 26.07
pull
Entries 81
Mean −446.6
Std Dev 482

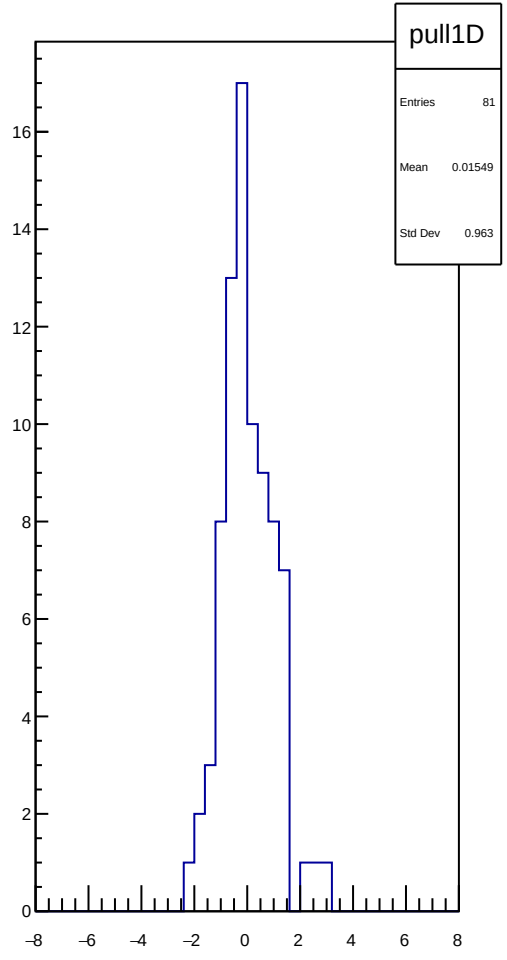

pull1D
Entries 81
Mean −0.01056
Std Dev 0.895

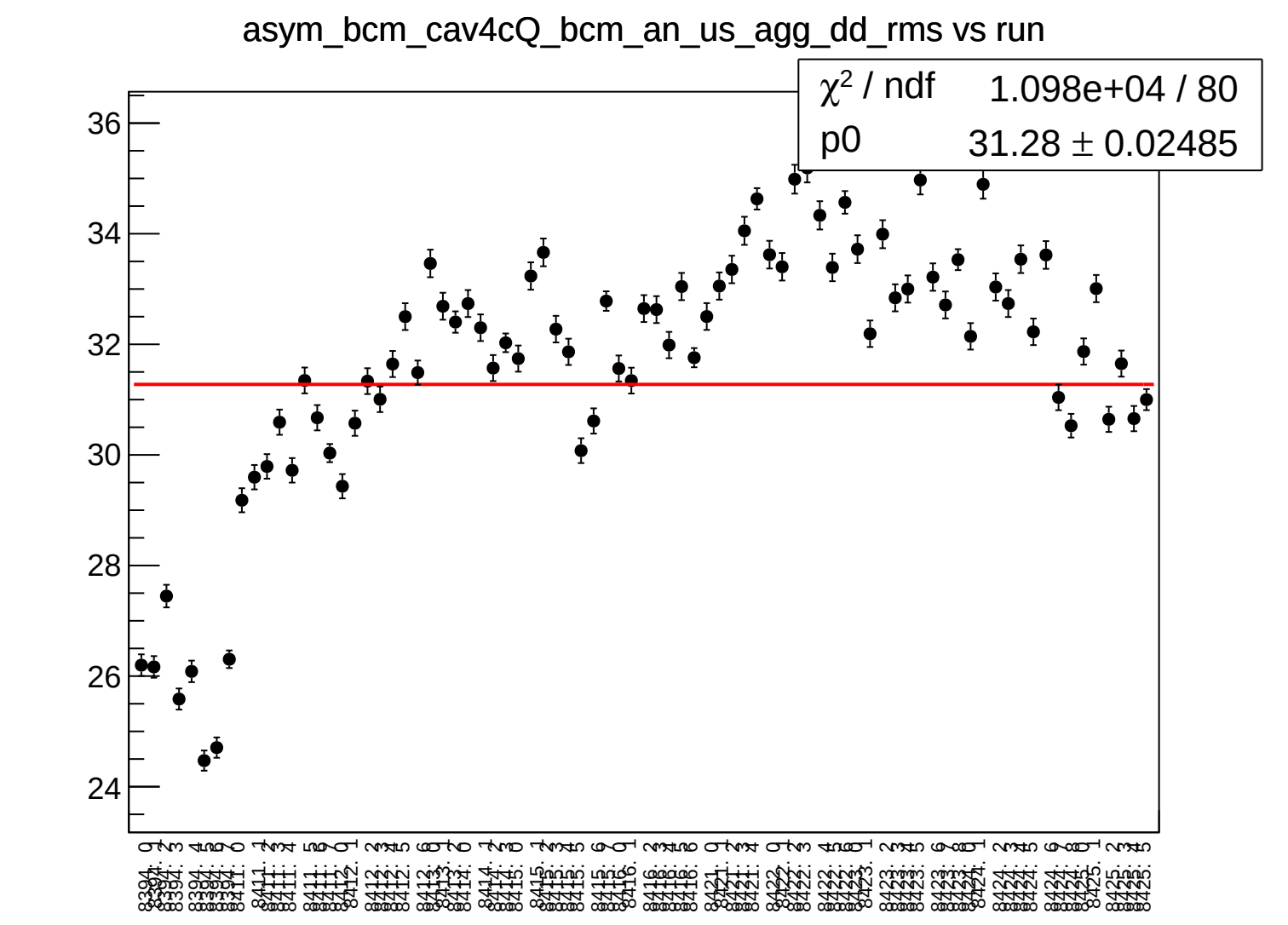

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1565 / 80
p0 23.26 ± 0.01843
25
24
23
22
21

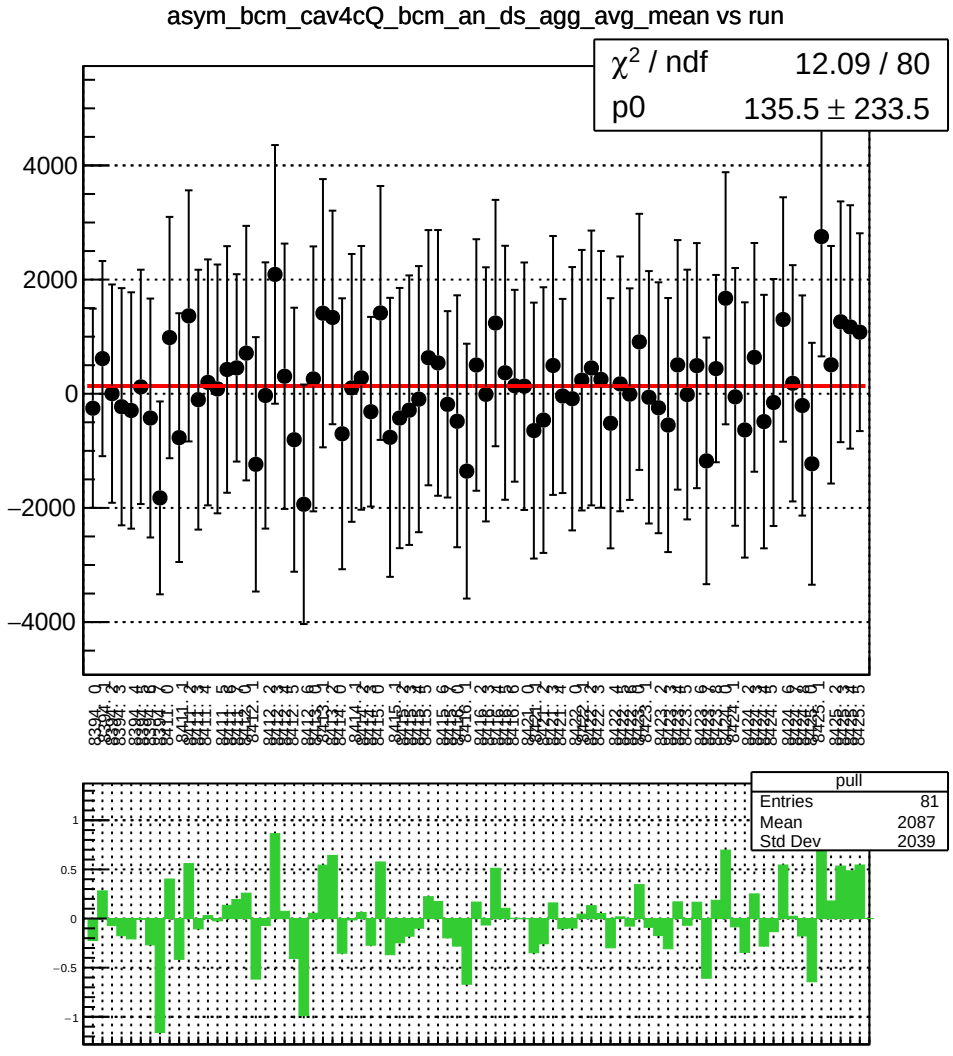

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 11.91 / 80
p0 140.4 ± 234.1
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 1185
Std Dev 1137
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean 0.0015
Std Dev 0.3834
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

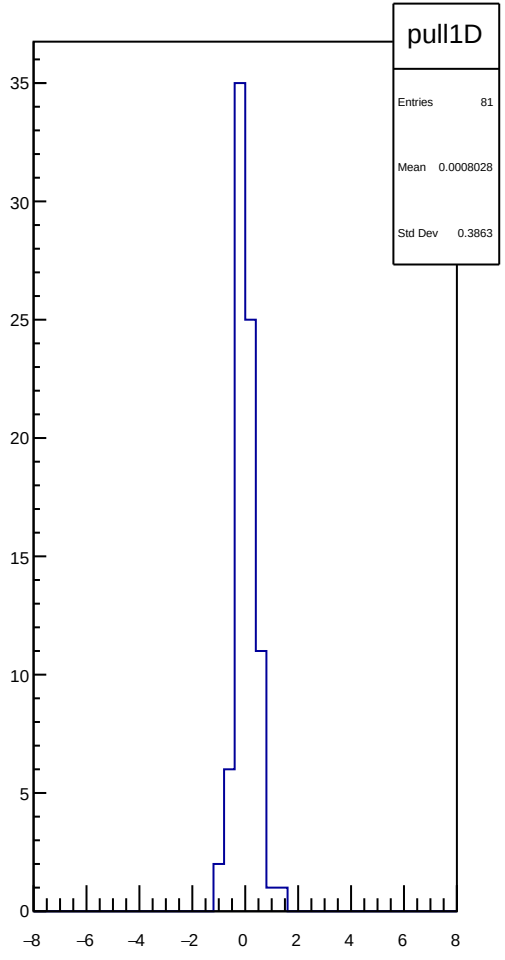

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 5823 / 80
p0 208.6 ± 0.1655
240
230
220
210
200
190
180
170
160

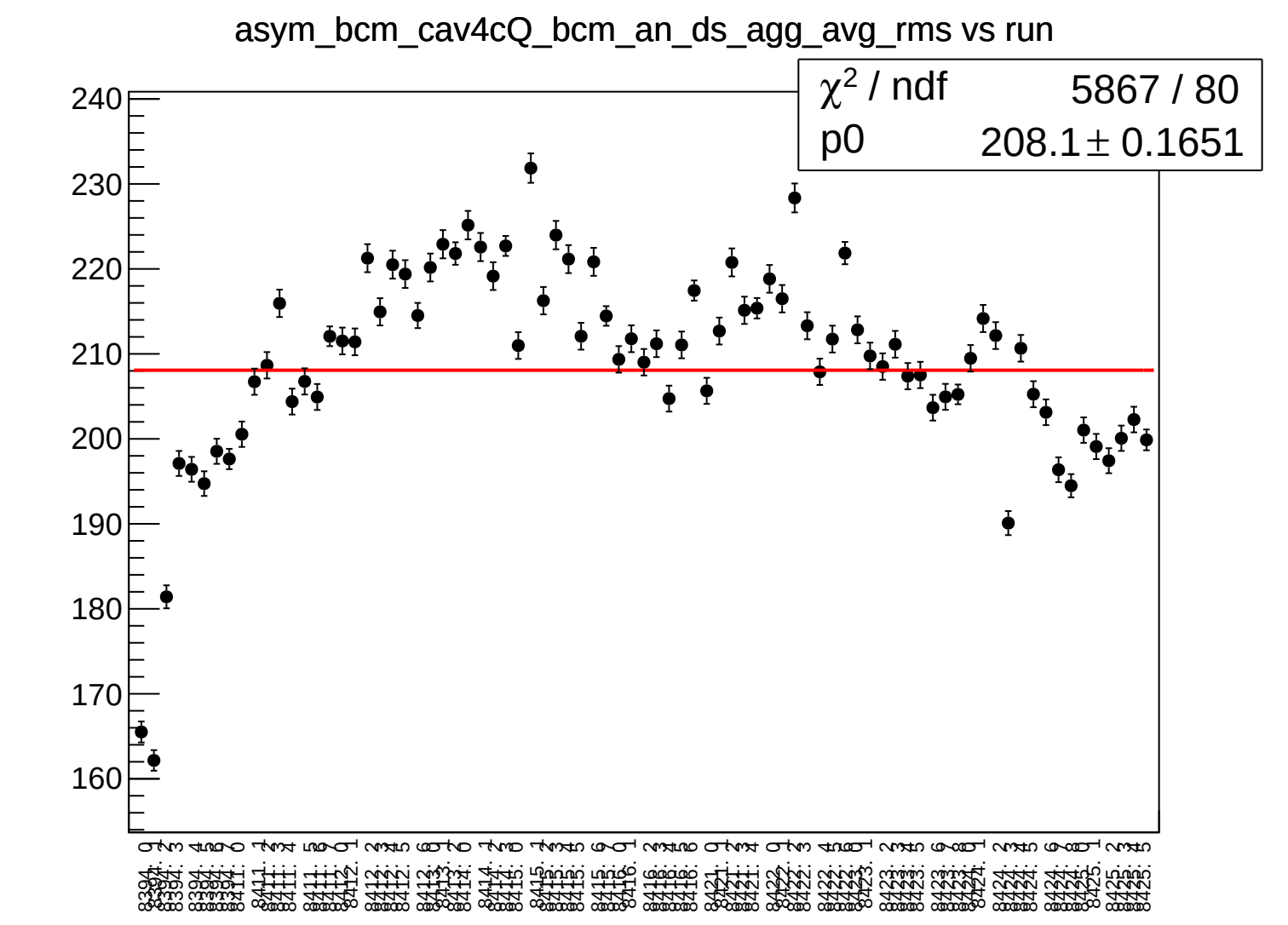

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 75.13 / 80
p0 −2.628 ± 35.15
pull
Entries 81
Mean −65.74
Std Dev 122.3

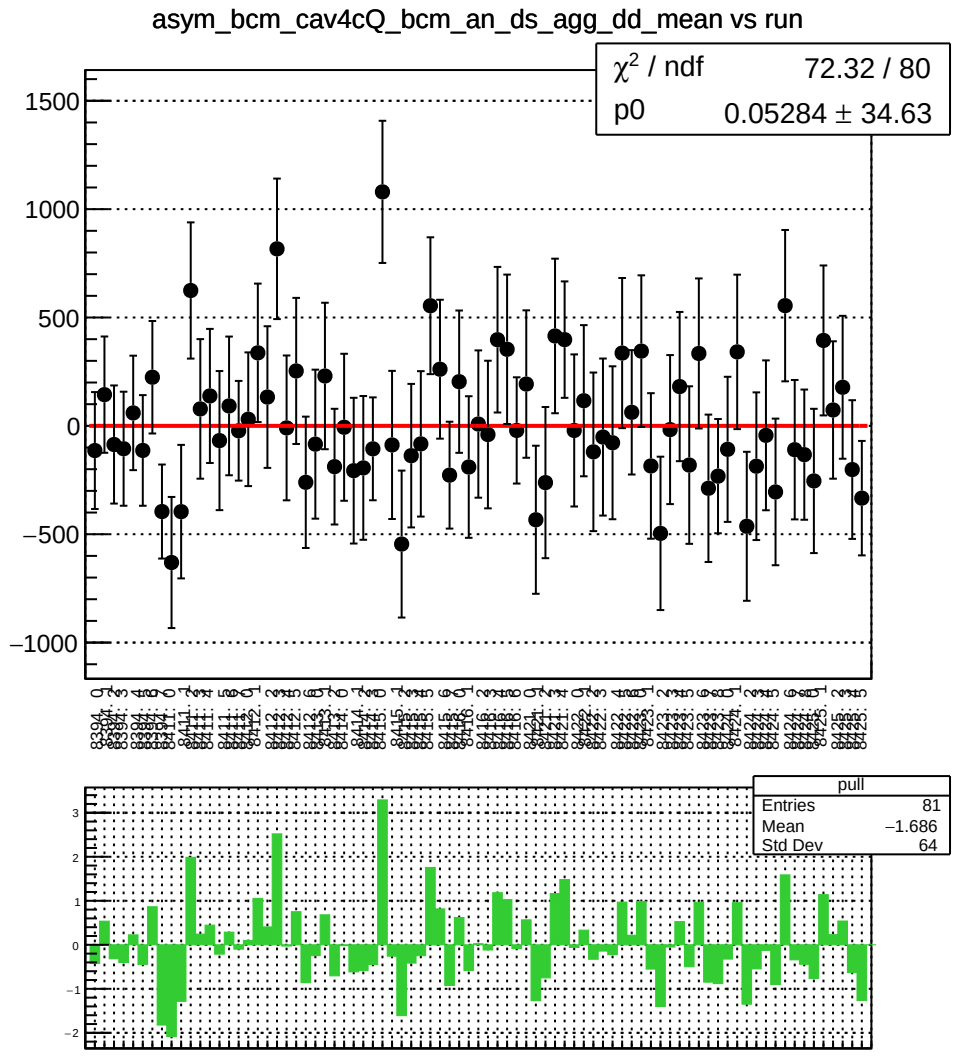

pull1D
Entries 81
Mean 0.01549
Std Dev 0.963

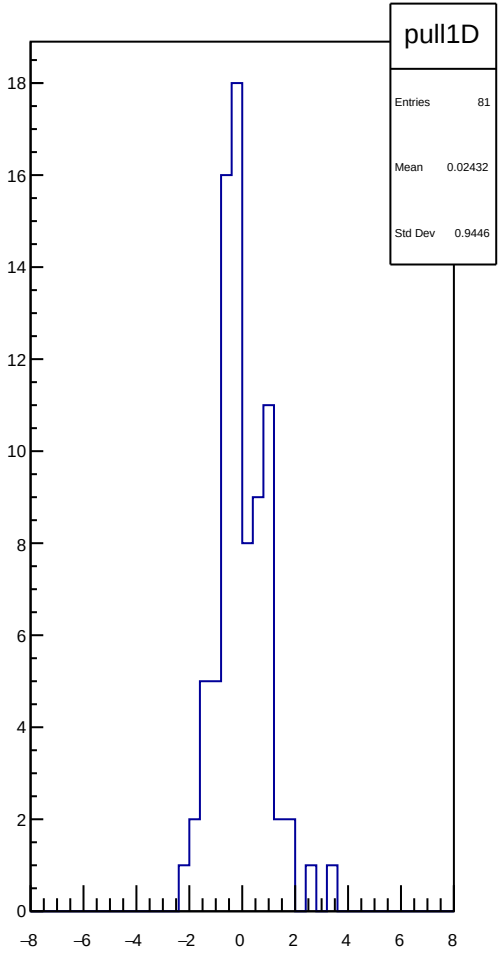

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.098e+04 / 80
p0 31.28 ± 0.02485
36
34
32
30
28
26
24

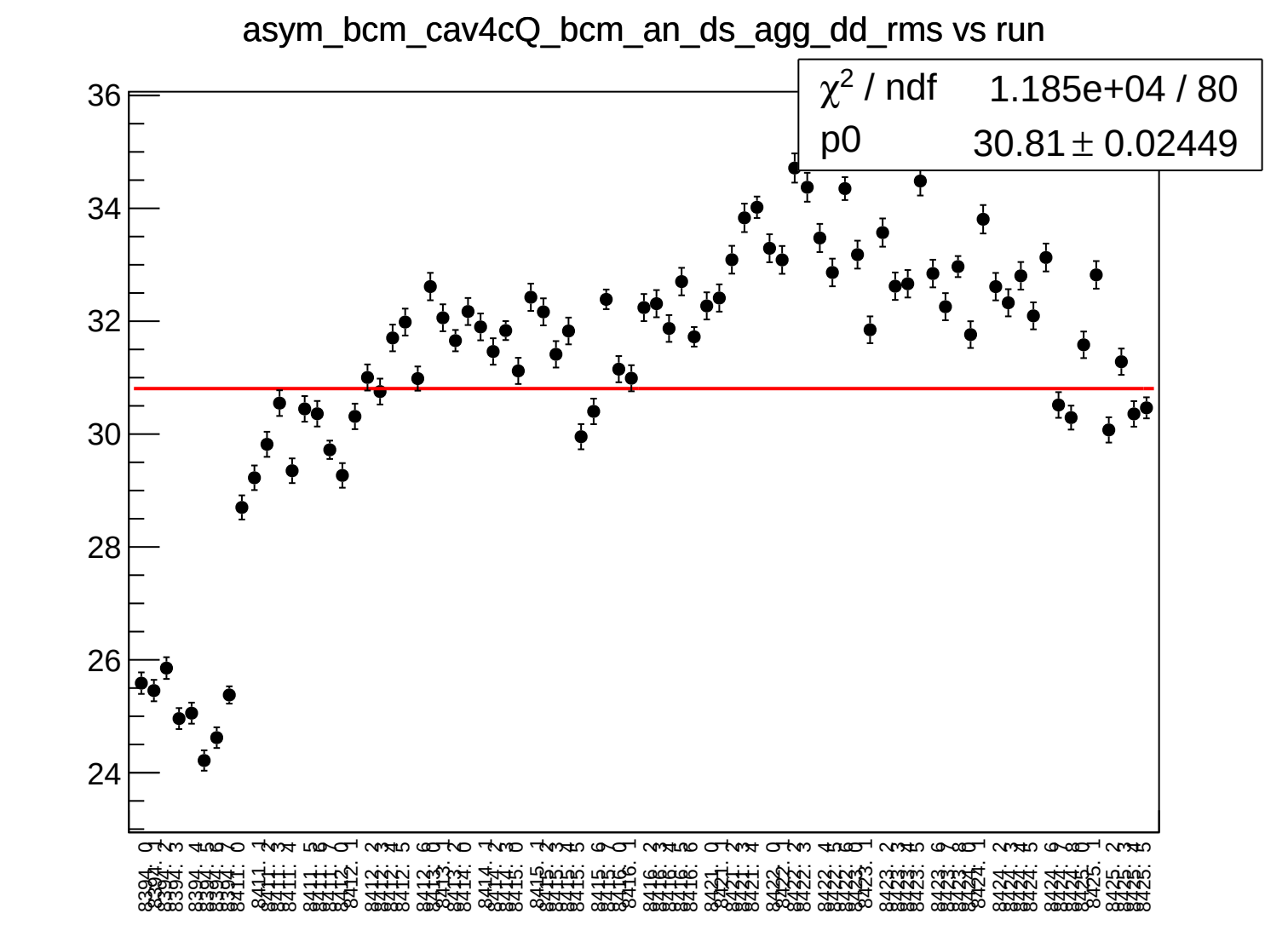

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.09 / 80
p0 135.5 ± 233.5
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 2087
Std Dev 2039
1
0.5
0
−0.5
−1

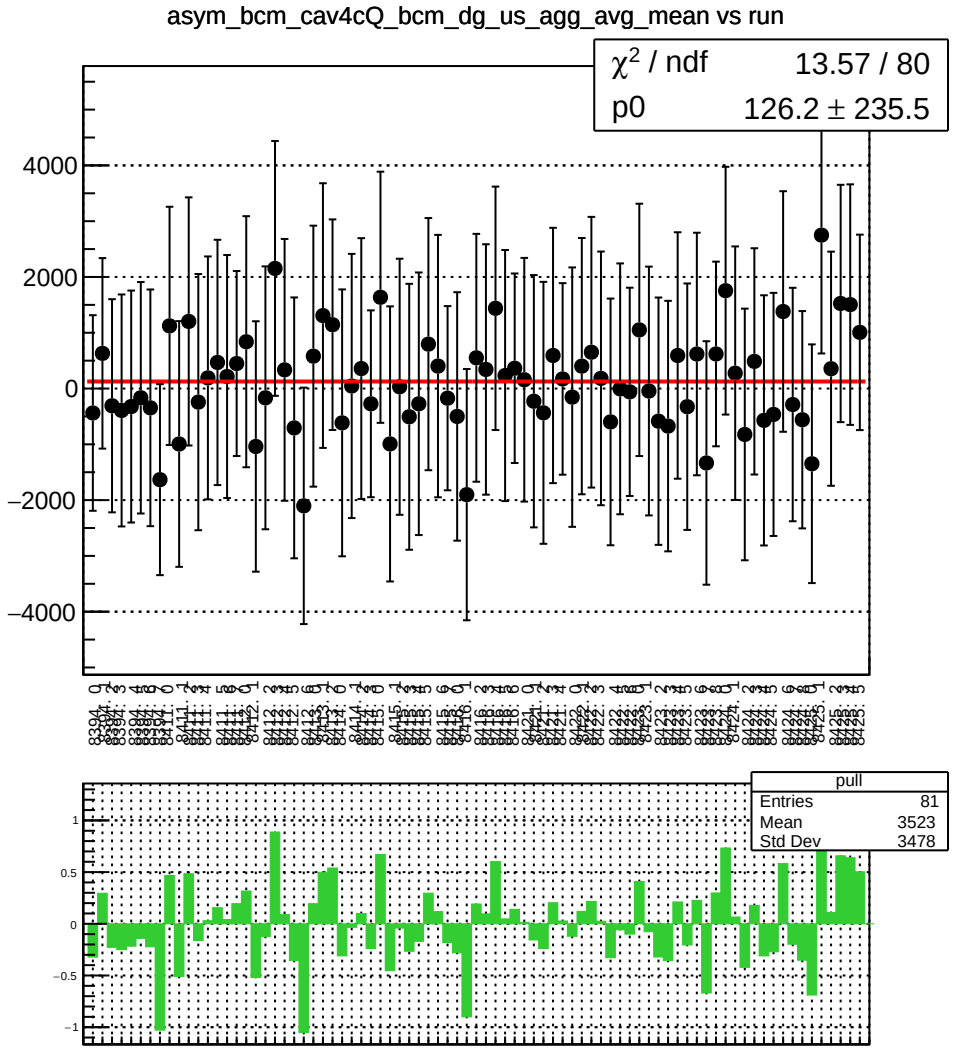

pull1D
Entries 81
Mean 0.0008028
Std Dev 0.3863
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

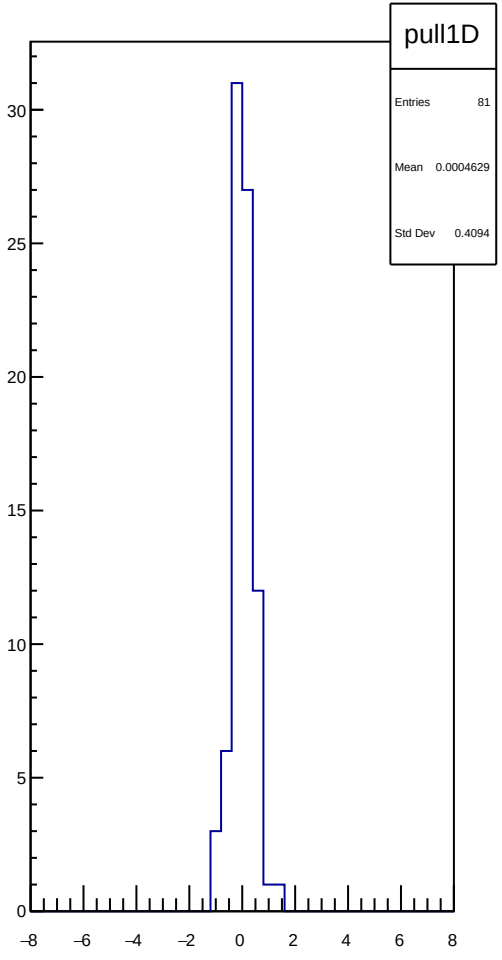

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5867 / 80
p0 208.1 ± 0.1651
240
230
220
210
200
190
180
170
160

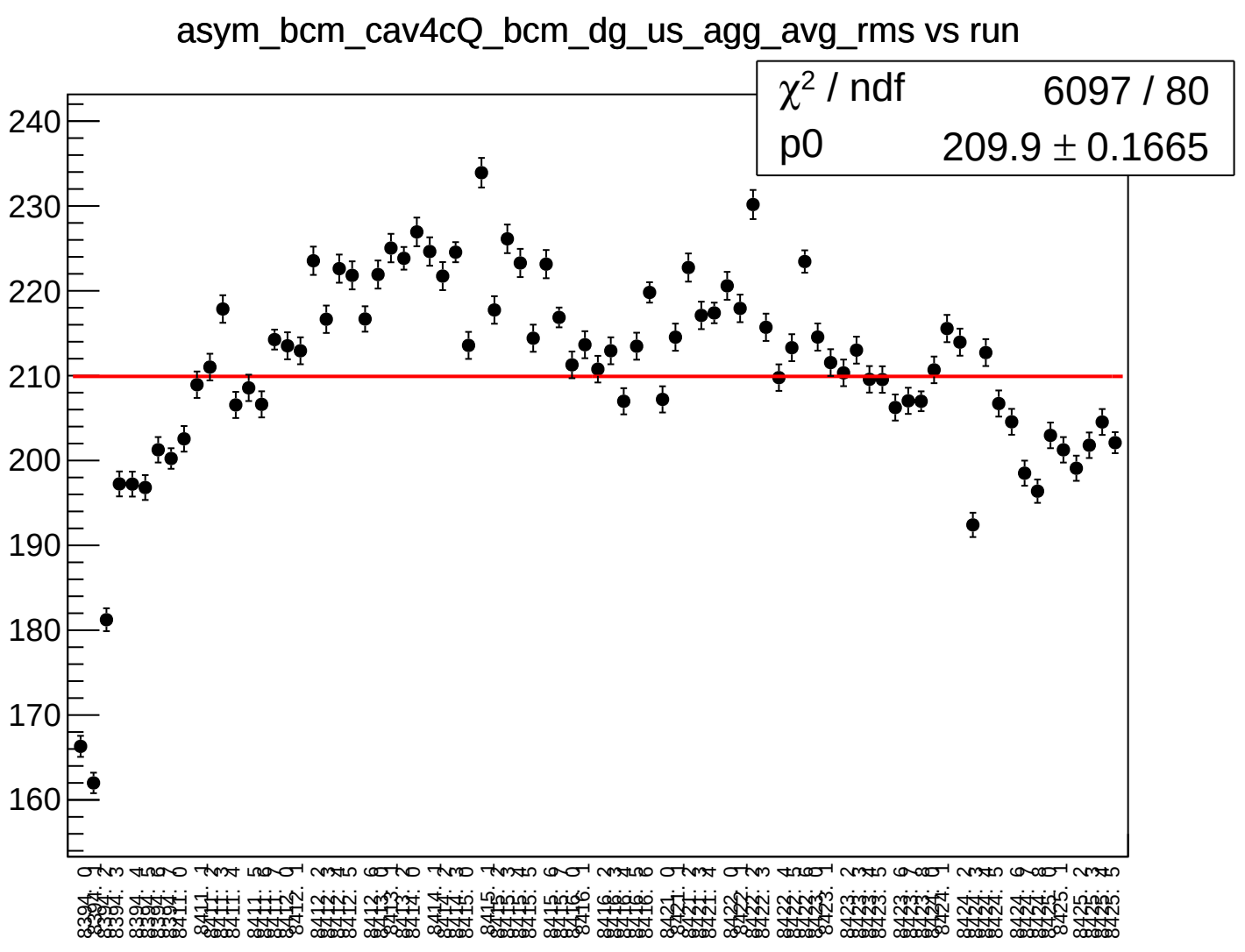

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 72.32 / 80
p0 0.05284 ± 34.63
pull
Entries 81
Mean −1.686
Std Dev 64

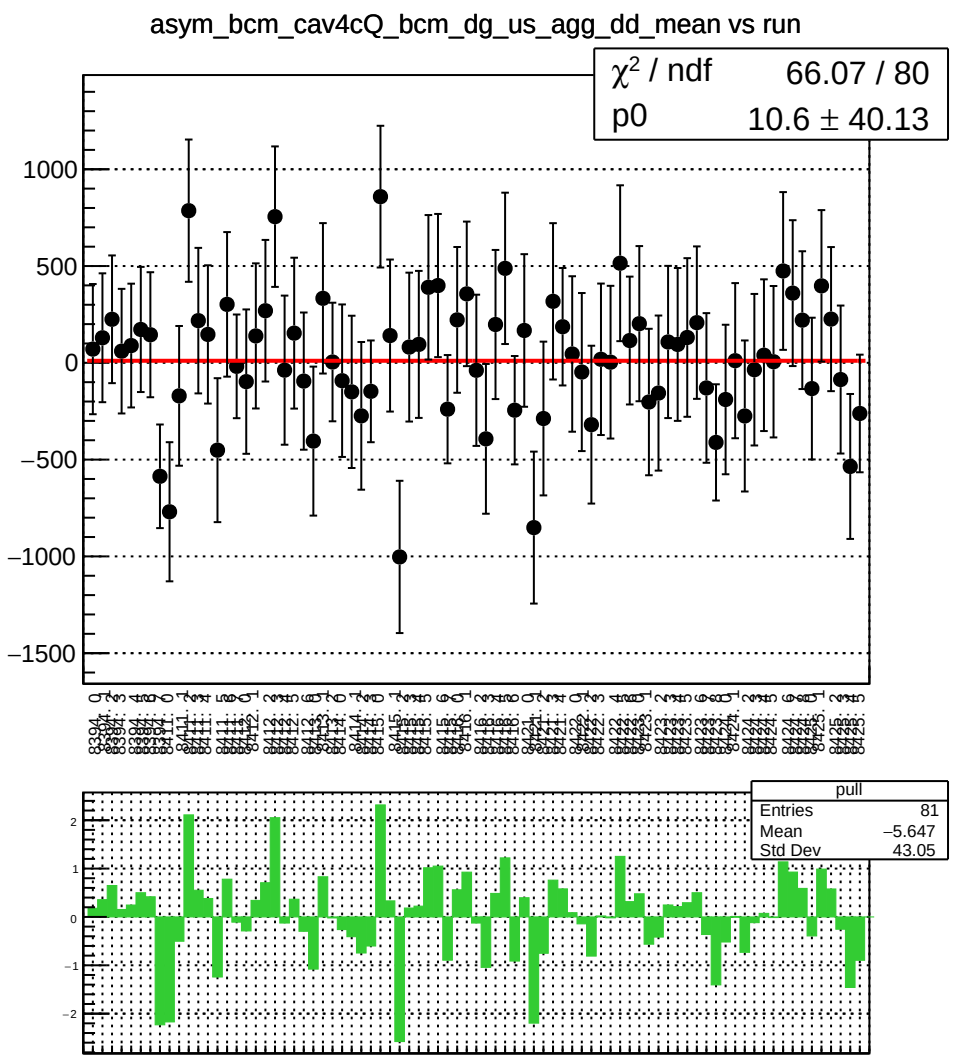

pull1D
Entries 81
Mean 0.02432
Std Dev 0.9446

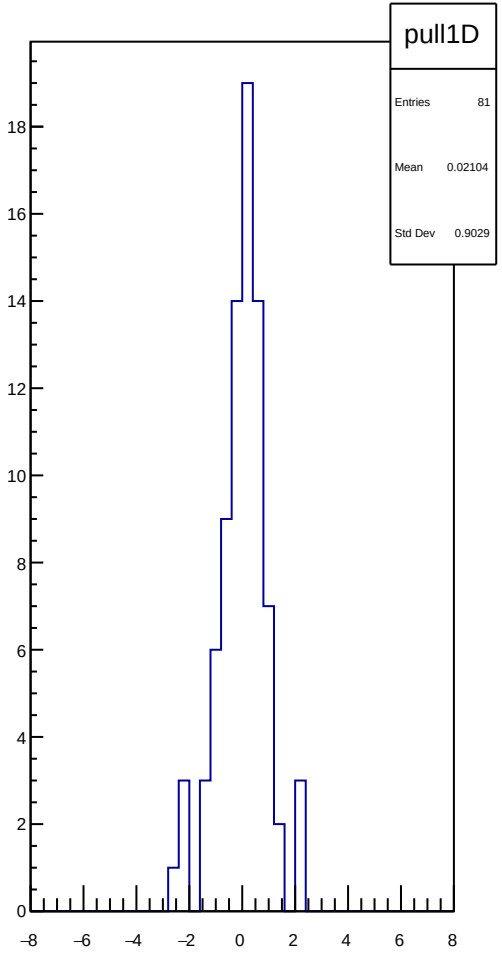

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.185e+04 / 80
p0 30.81 ± 0.02449
36
34
32
30
28
26
24

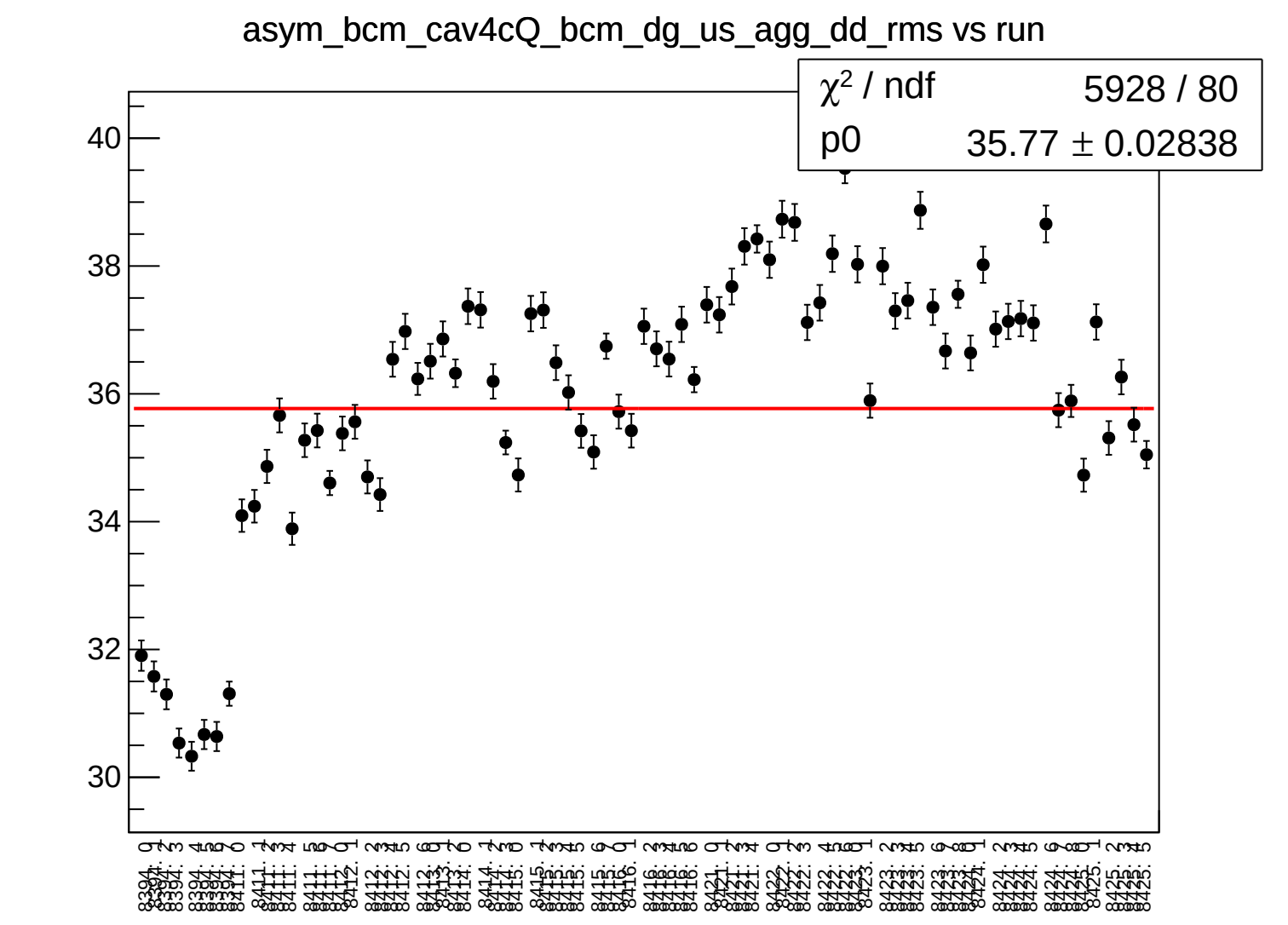

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 13.57 / 80
p0 126.2 ± 235.5
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 3523
Std Dev 3478
1
0.5
0
−0.5
−1

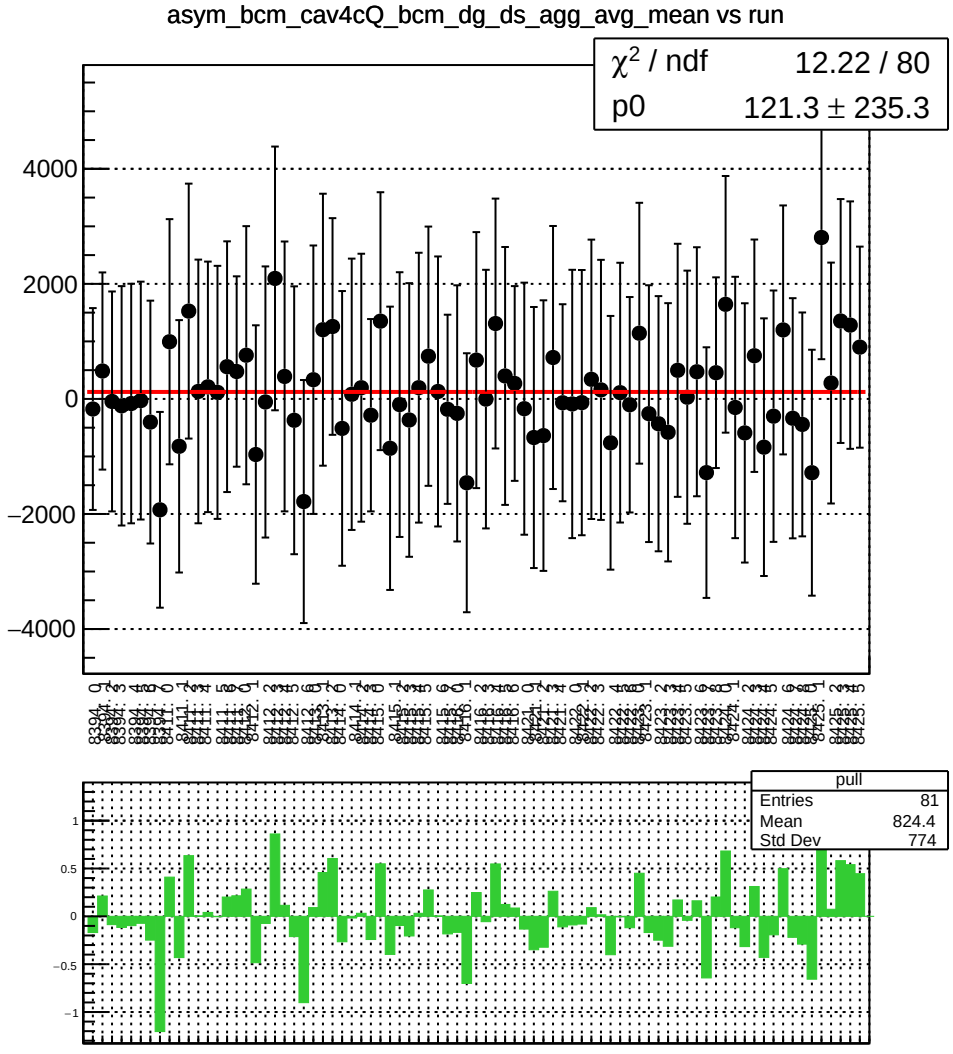

pull1D
Entries 81
Mean 0.0004629
Std Dev 0.4094
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

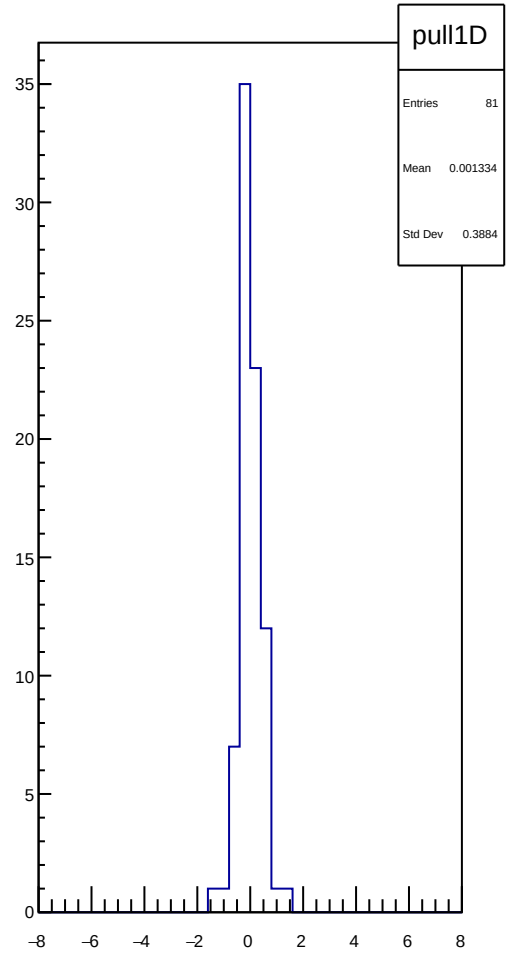

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 6097 / 80
p0 209.9 ± 0.1665
240
230
220
210
200
190
180
170
160

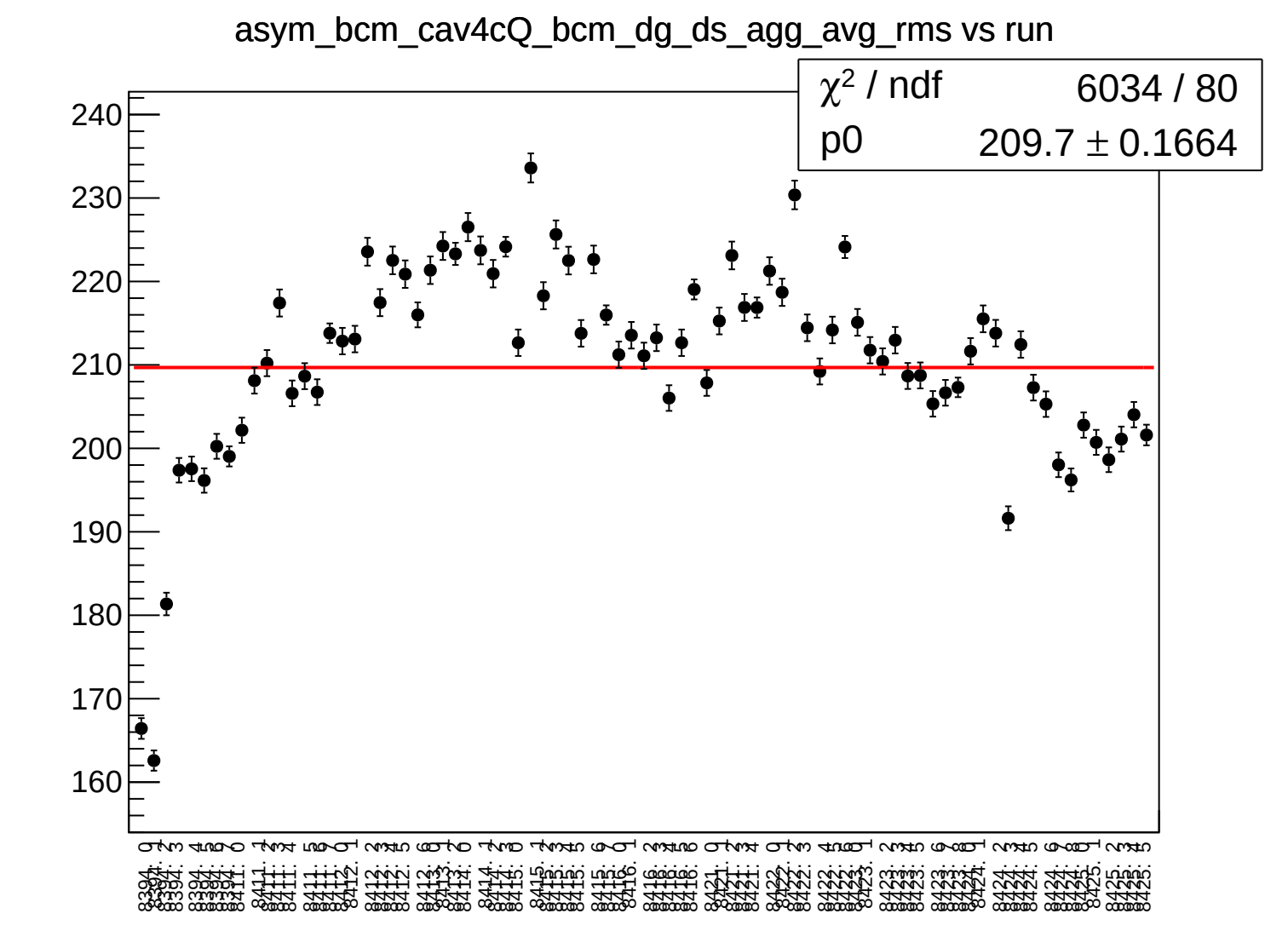

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 66.07 / 80
p0 10.6 ± 40.13
1000
500
0
−500
−1000
−1500
pull
Entries 81
Mean −5.647
Std Dev 43.05
2
1
0
−1
−2

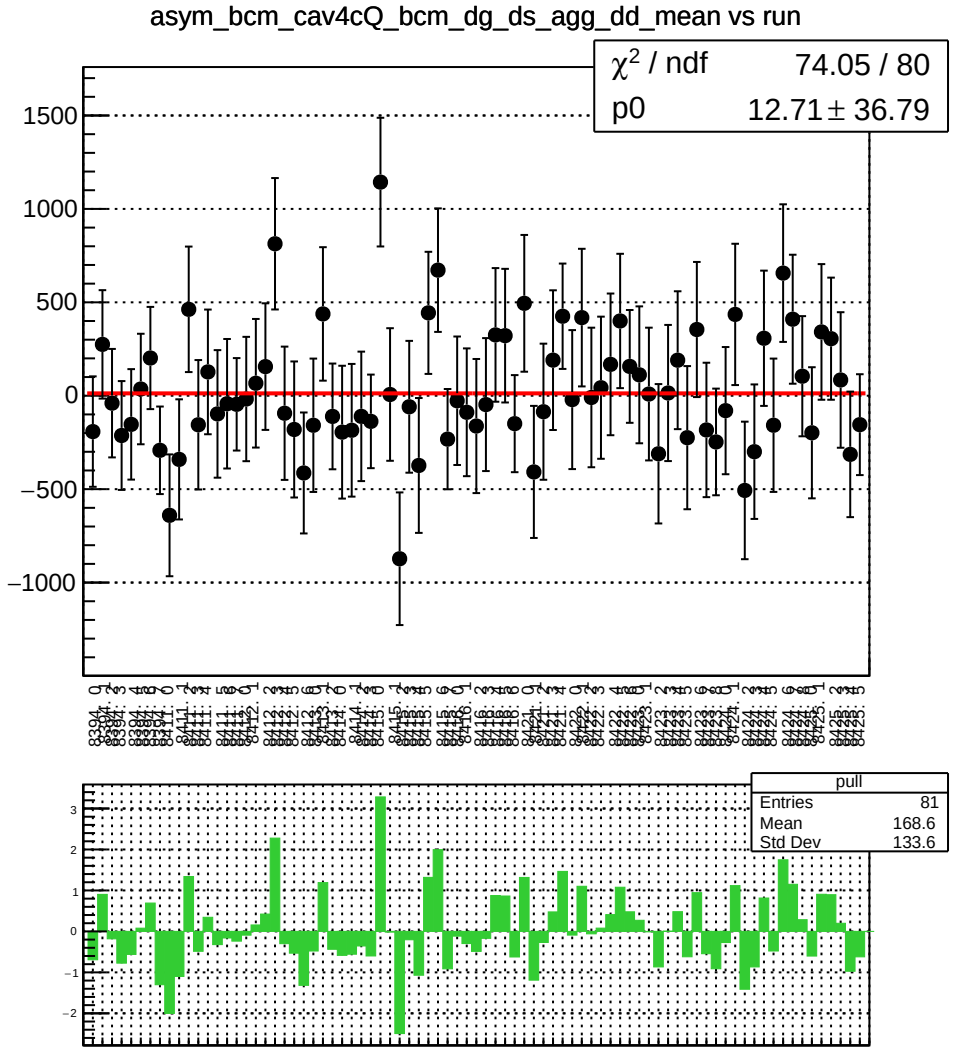

pull1D
Entries 81
Mean 0.02104
Std Dev 0.9029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

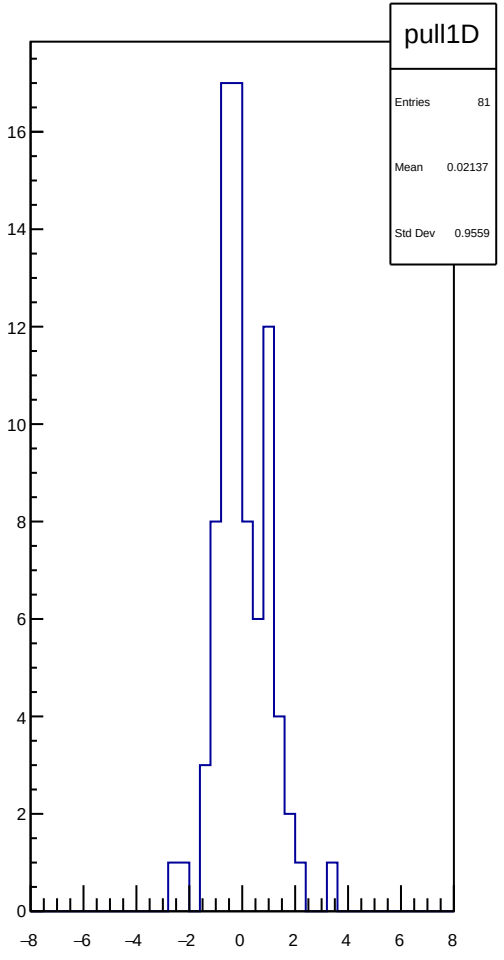

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 5928 / 80
p0 35.77 ± 0.02838
40
38
36
34
32
30

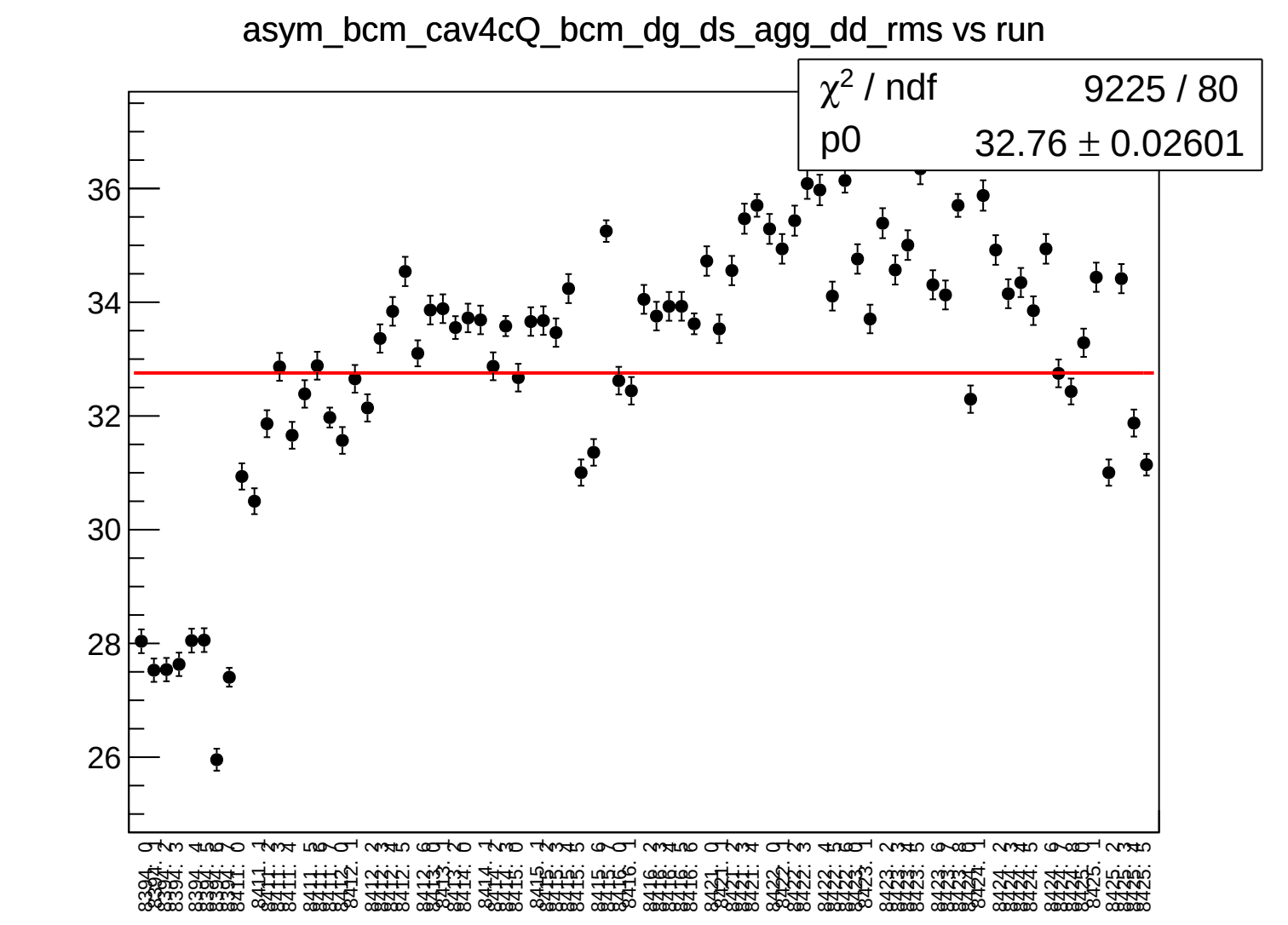

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 12.22 / 80
p0 121.3 ± 235.3
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 824.4
Std Dev 774
1
0.5
0
−0.5
−1

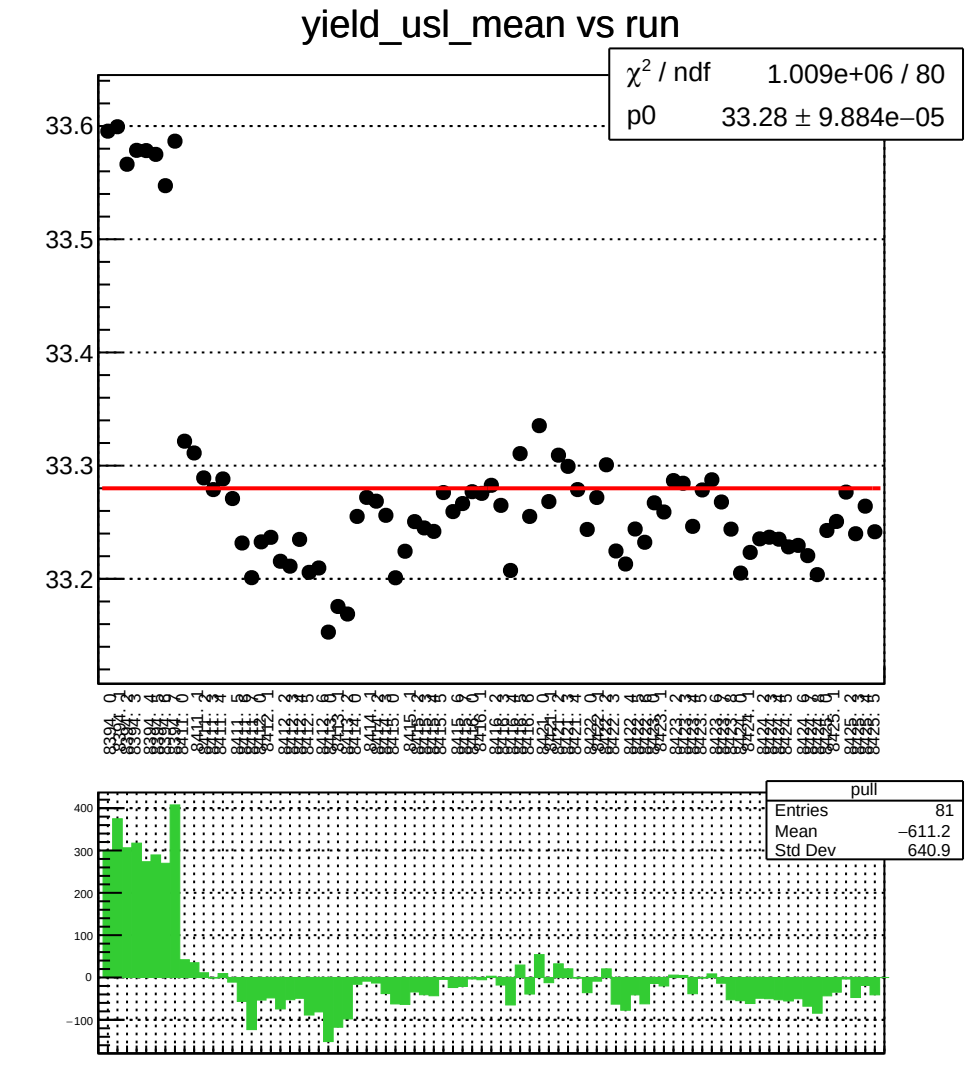

pull1D
Entries 81
Mean 0.001334
Std Dev 0.3884
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

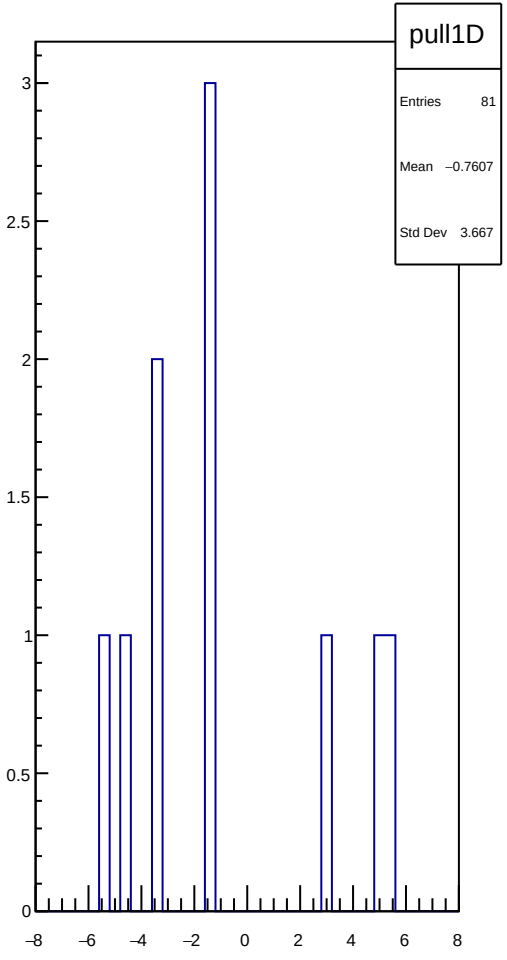

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 6034 / 80
p0 209.7 ± 0.1664
240
230
220
210
200
190
180
170
160

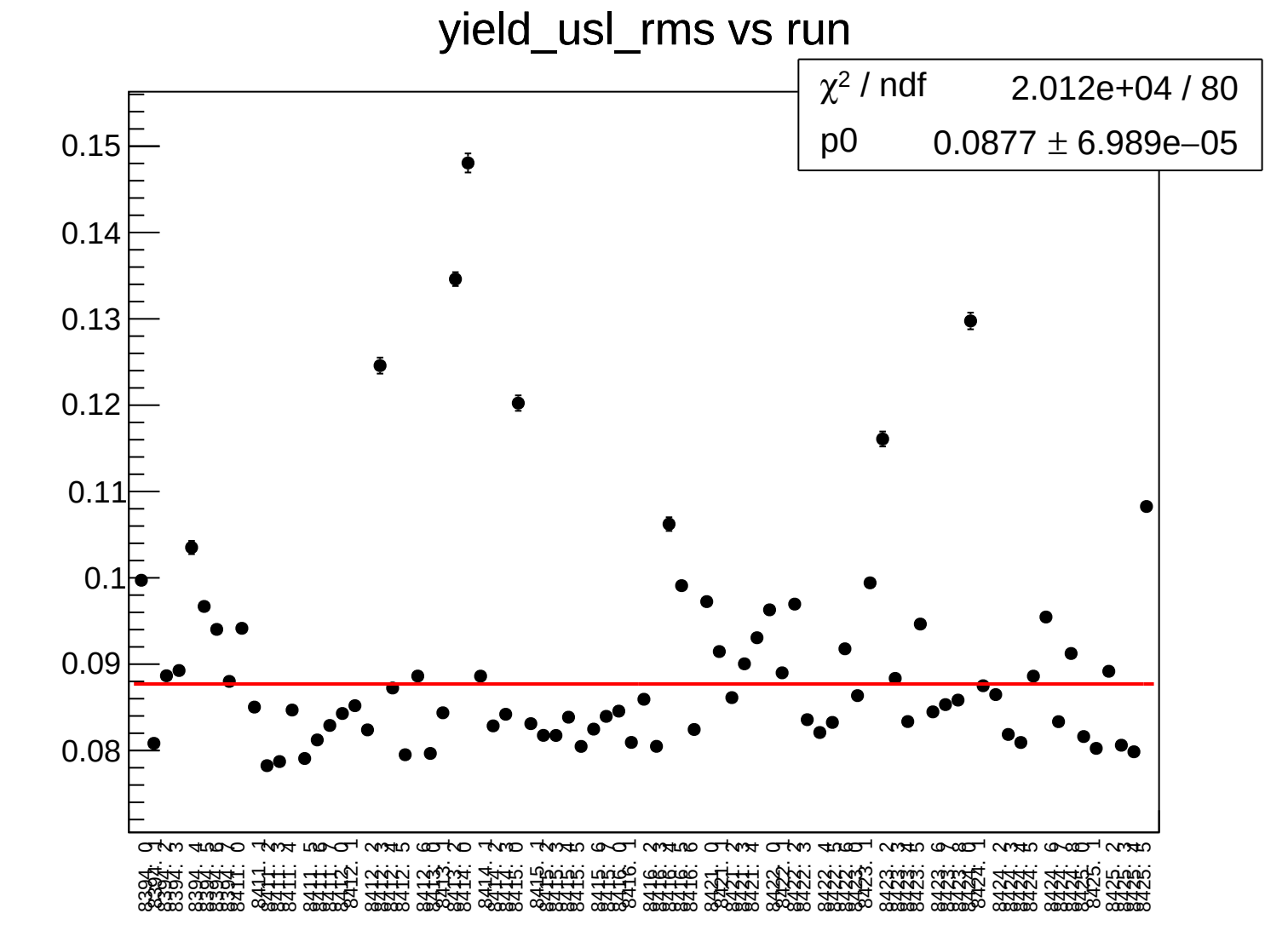

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 74.05 / 80
p0 12.71 ± 36.79
pull
Entries 81
Mean 168.6
Std Dev 133.6

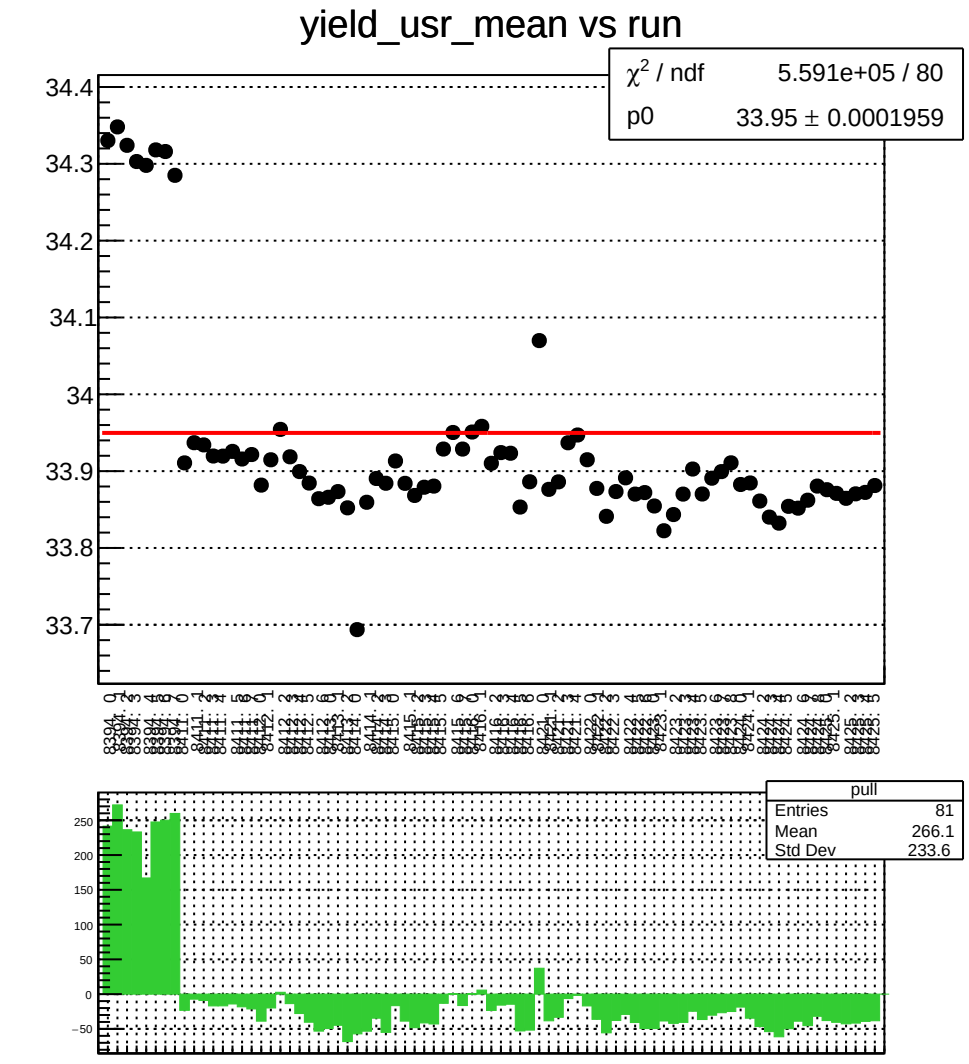

pull1D
Entries 81
Mean 0.02137
Std Dev 0.9559

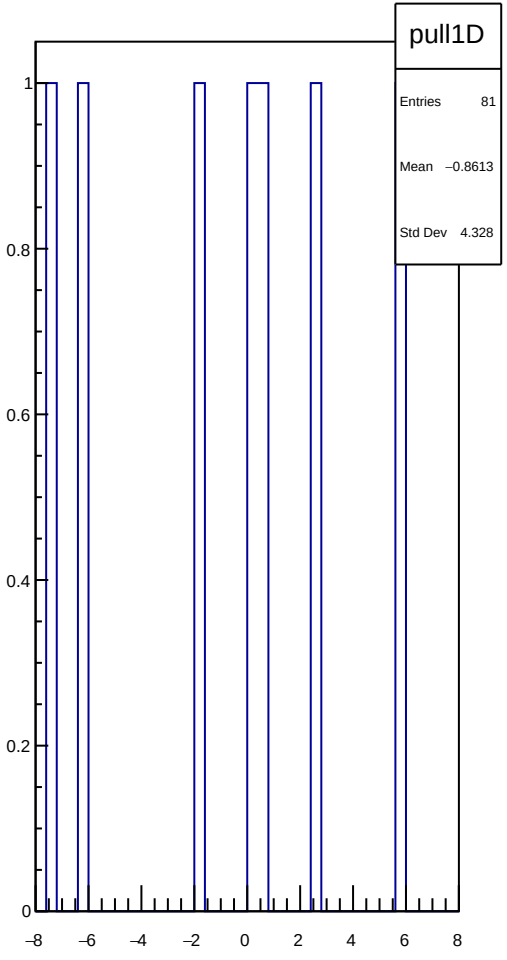

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 9225 / 80
p0 32.76 ± 0.02601
36
34
32
30
28
26

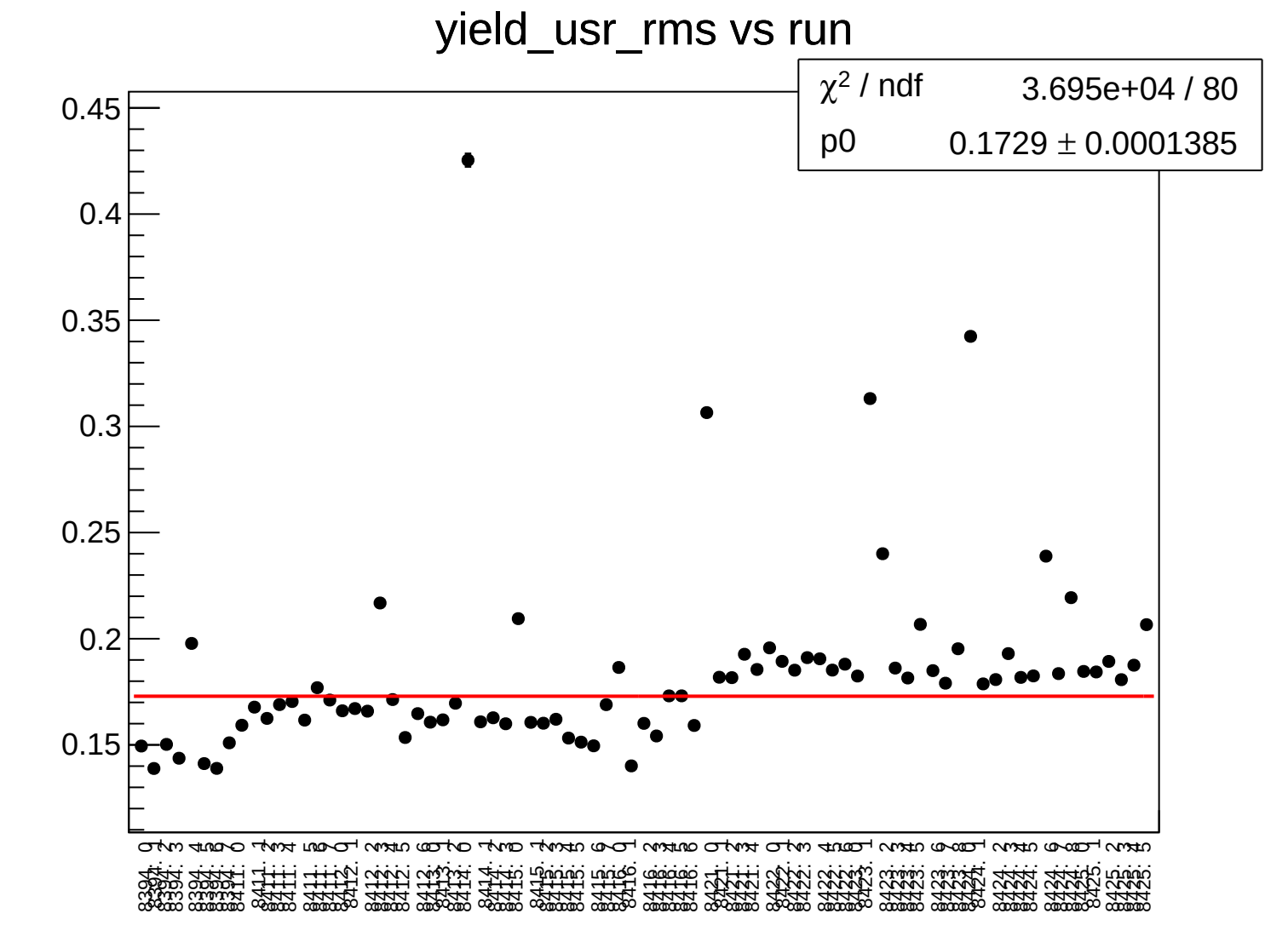

yield_usl_mean vs run
χ² / ndf 1.009e+06 / 80
p0 33.28 ± 9.884e−05
33.6
33.5
33.4
33.3
33.2
pull
Entries 81
Mean −611.2
Std Dev 640.9
400
300
200
100
0
−100

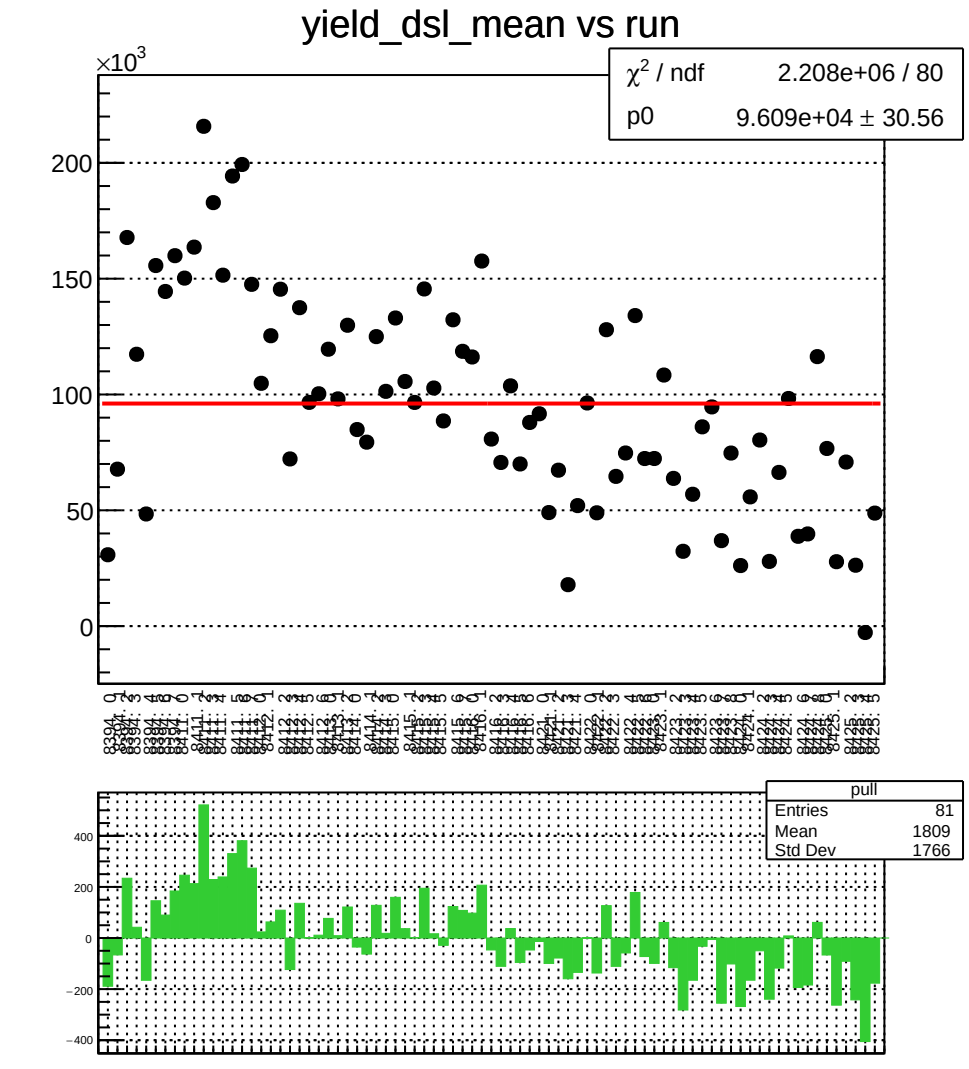

pull1D
Entries 81
Mean −0.7607
Std Dev 3.667
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

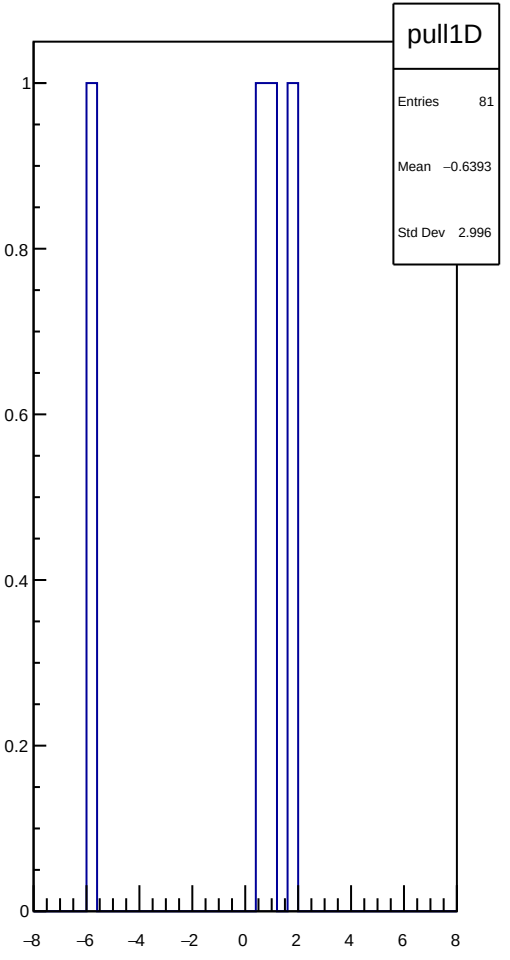

yield_usl_rms vs run
χ² / ndf 2.012e+04 / 80
p0 0.0877 ± 6.989e−05
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08

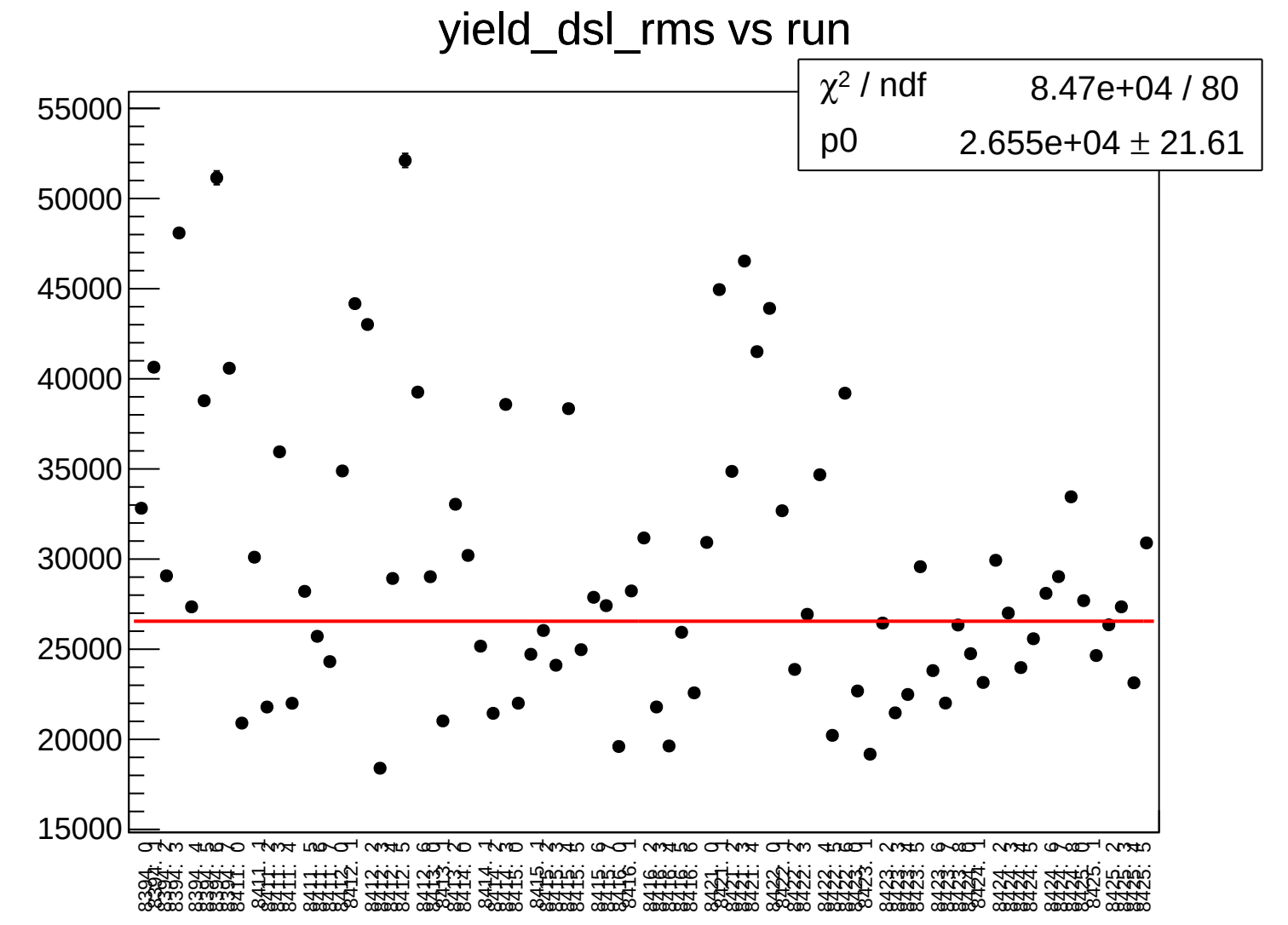

yield_usr_mean vs run
χ² / ndf 5.591e+05 / 80
p0 33.95 ± 0.0001959
34.4
34.3
34.2
34.1
34
33.9
33.8
33.7
pull
Entries 81
Mean 266.1
Std Dev 233.6
250
200
150
100
50
0
−50

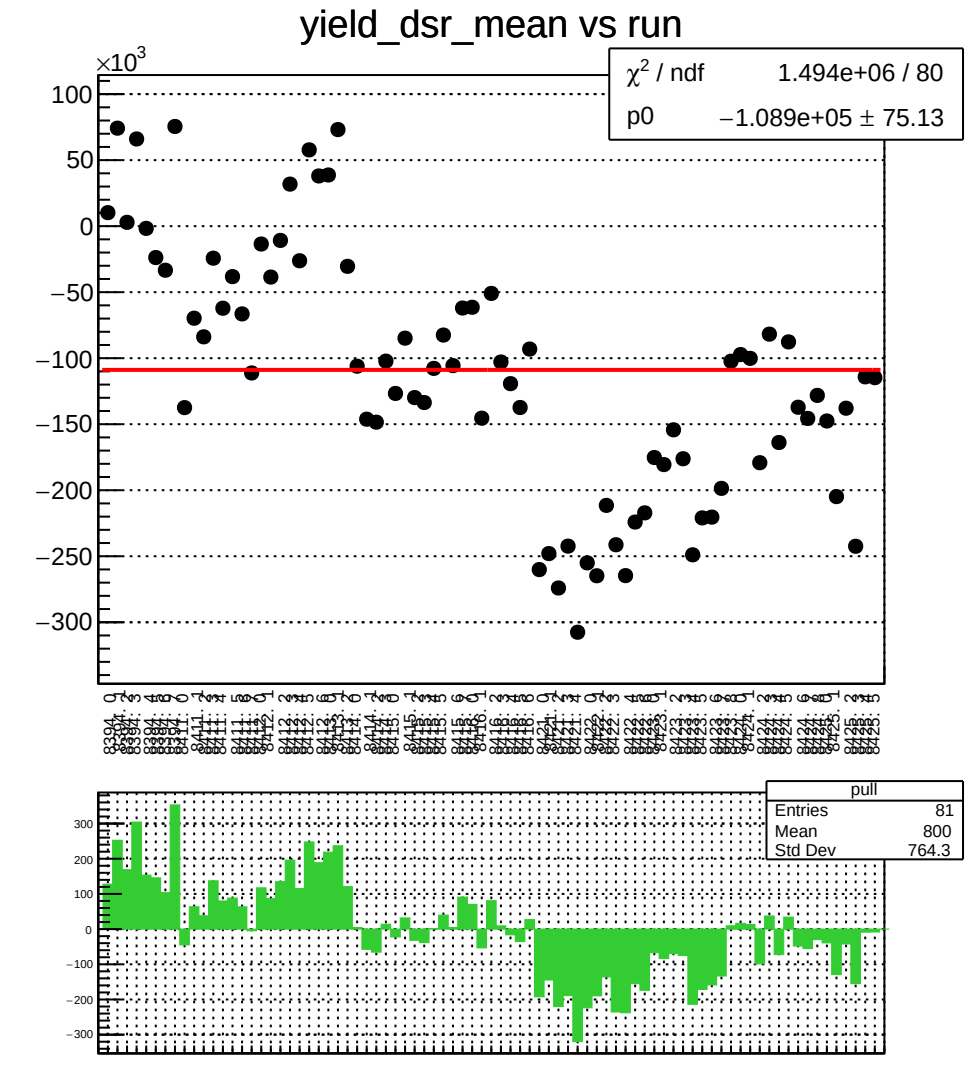

pull1D
Entries 81
Mean −0.8613
Std Dev 4.328
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

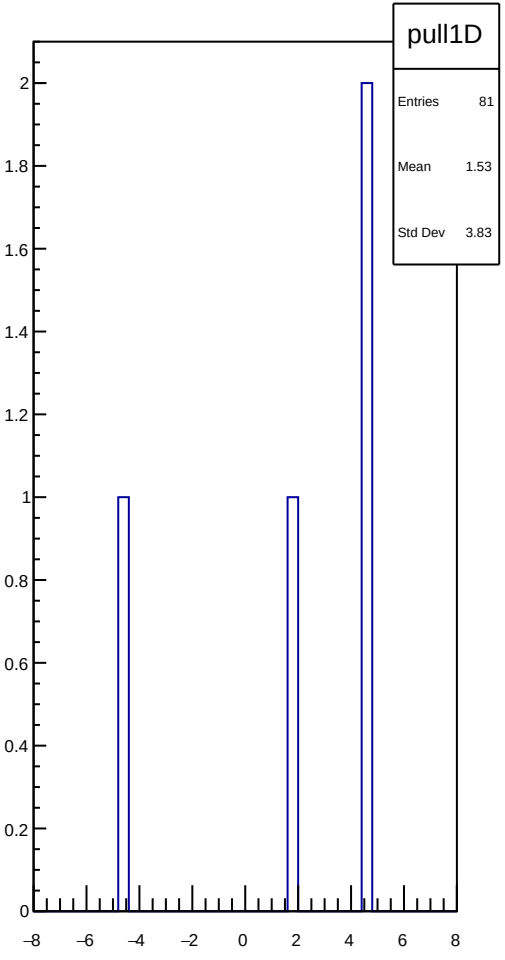

yield_usr_rms vs run
χ² / ndf 3.695e+04 / 80
p0 0.1729 ± 0.0001385
0.45
0.4
0.35
0.3
0.25
0.2
0.15

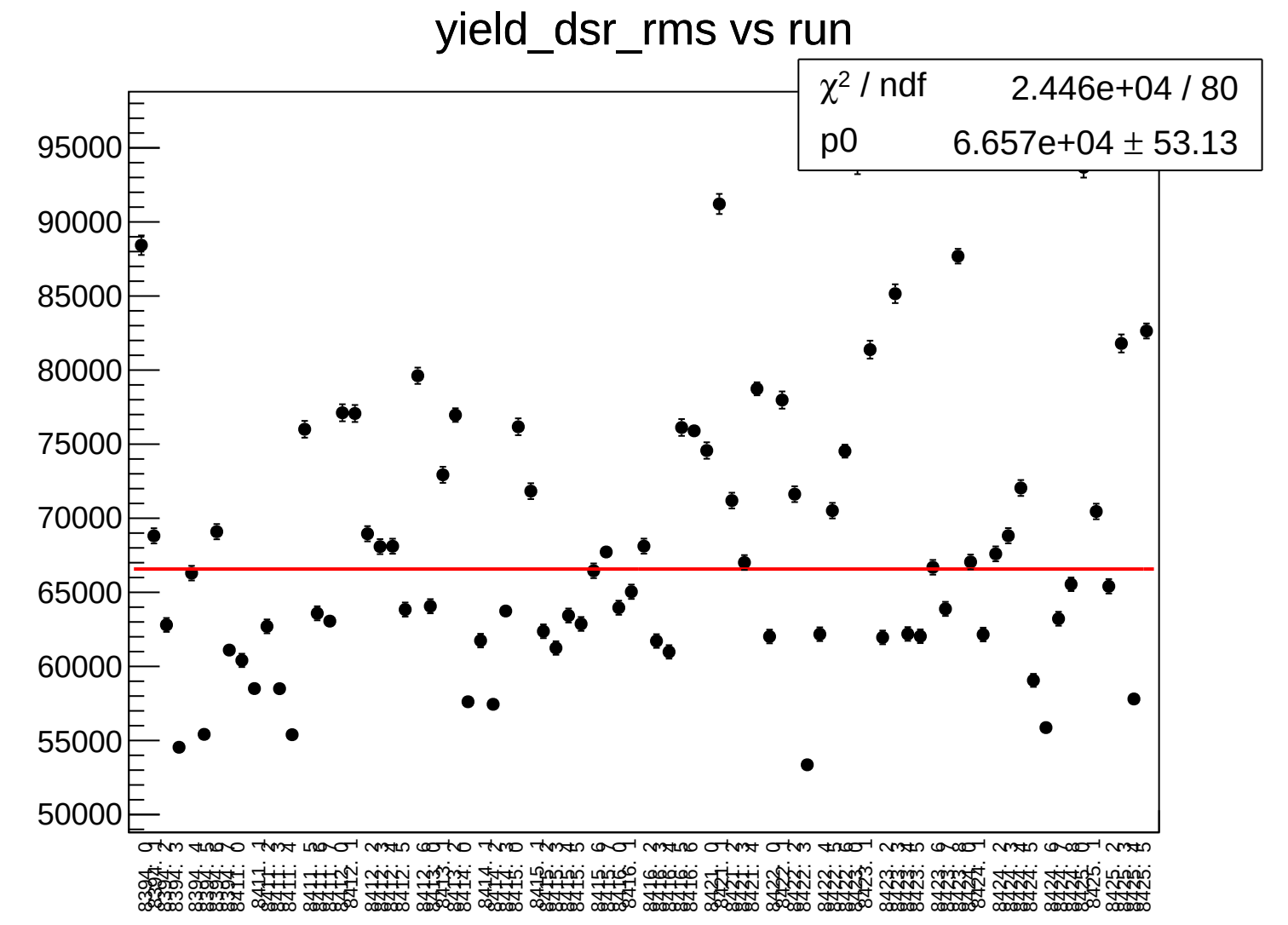

yield_dsl_mean vs run
×10^3
χ² / ndf 2.208e+06 / 80
p0 9.609e+04 ± 30.56
200
150
100
50
0
pull
Entries 81
Mean 1809
Std Dev 1766
400
200
0
−200
−400

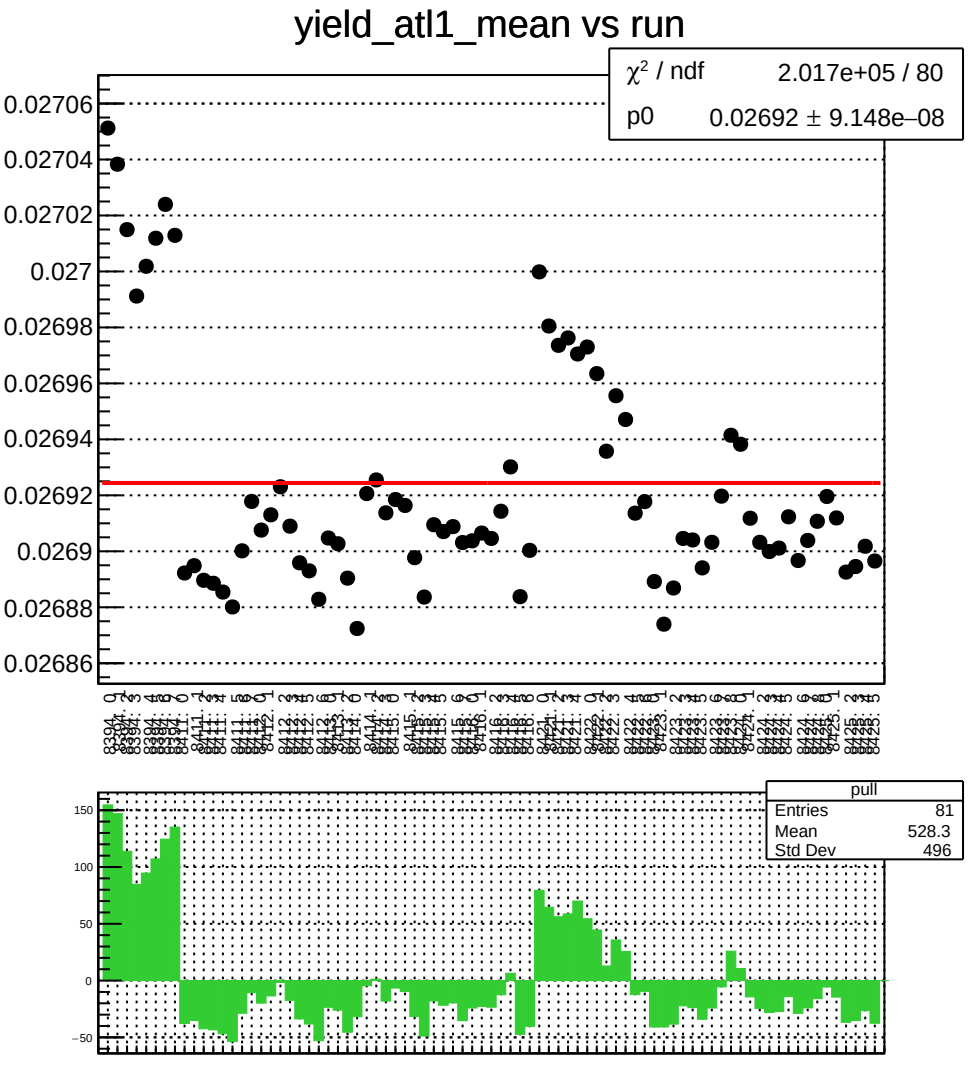

pull1D
Entries 81
Mean −0.6393
Std Dev 2.996
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

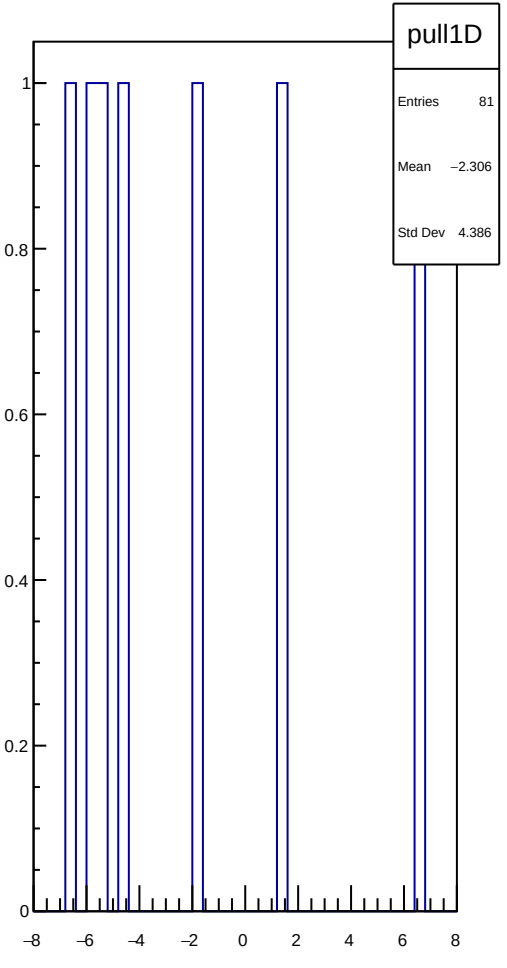

yield_dsl_rms vs run
χ² / ndf 8.47e+04 / 80
p0 2.655e+04 ± 21.61
55000
50000
45000
40000
35000
30000
25000
20000
15000

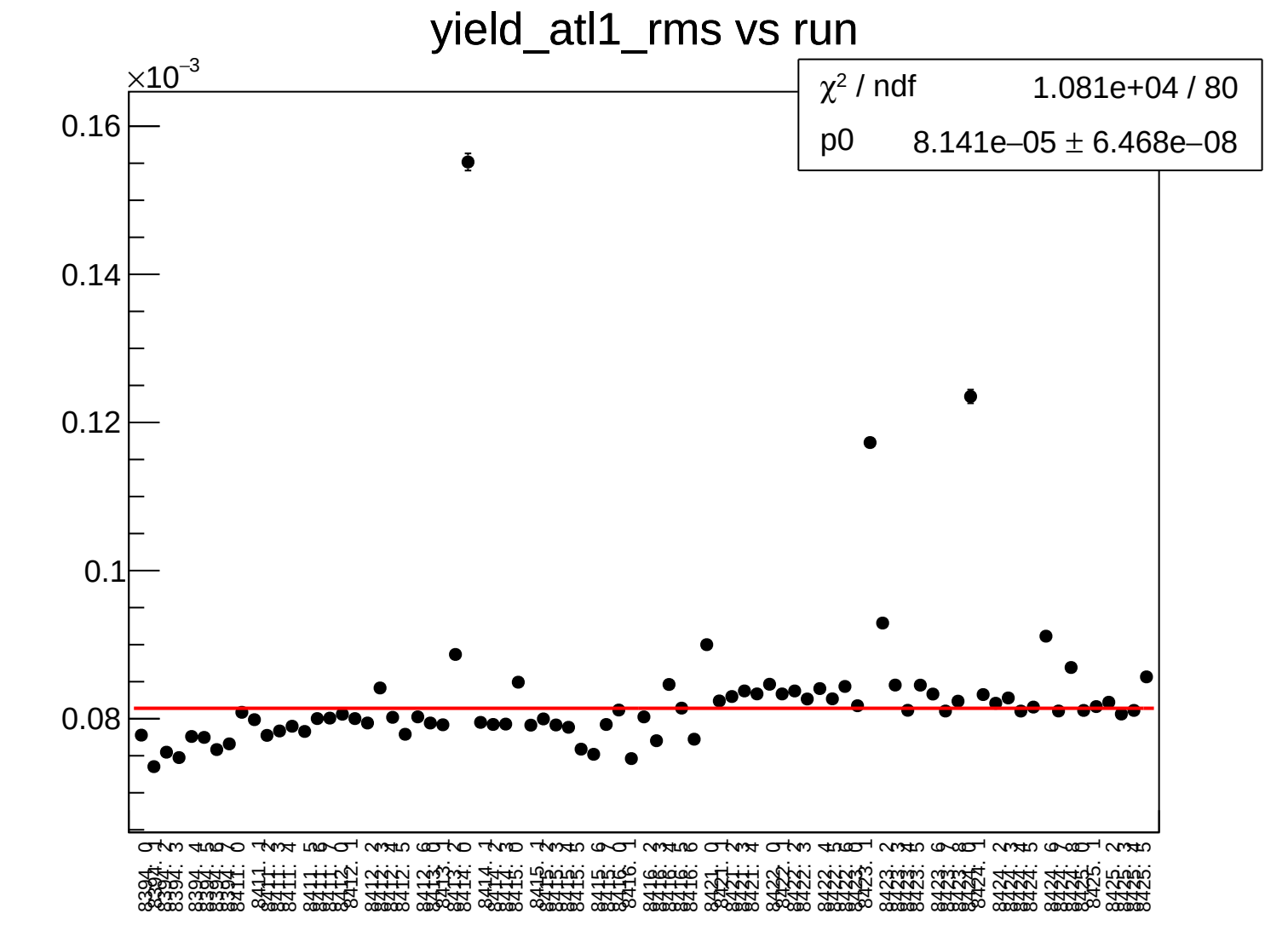

yield_dsr_mean vs run
×10^3
χ² / ndf 1.494e+06 / 80
p0 −1.089e+05 ± 75.13
pull
Entries 81
Mean 800
Std Dev 764.3

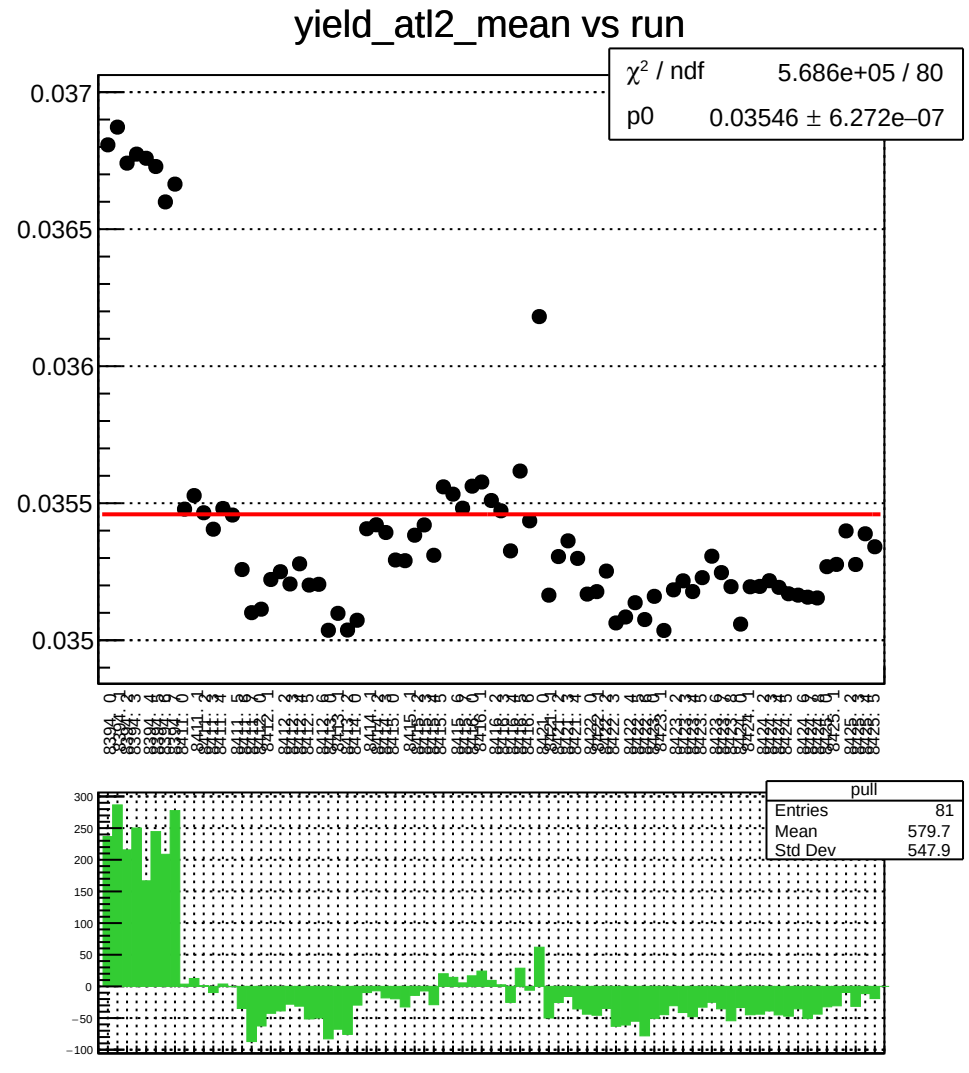

pull1D
Entries 81
Mean 1.53
Std Dev 3.83

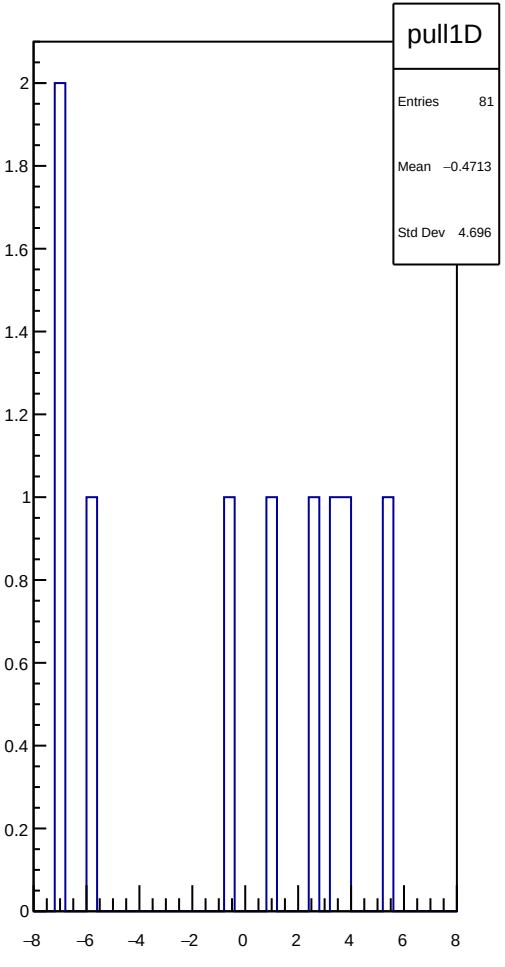

yield_dsr_rms vs run
χ^2 / ndf 2.446e+04 / 80
p0 6.657e+04 ± 53.13
95000
90000
85000
80000
75000
70000
65000
60000
55000
50000

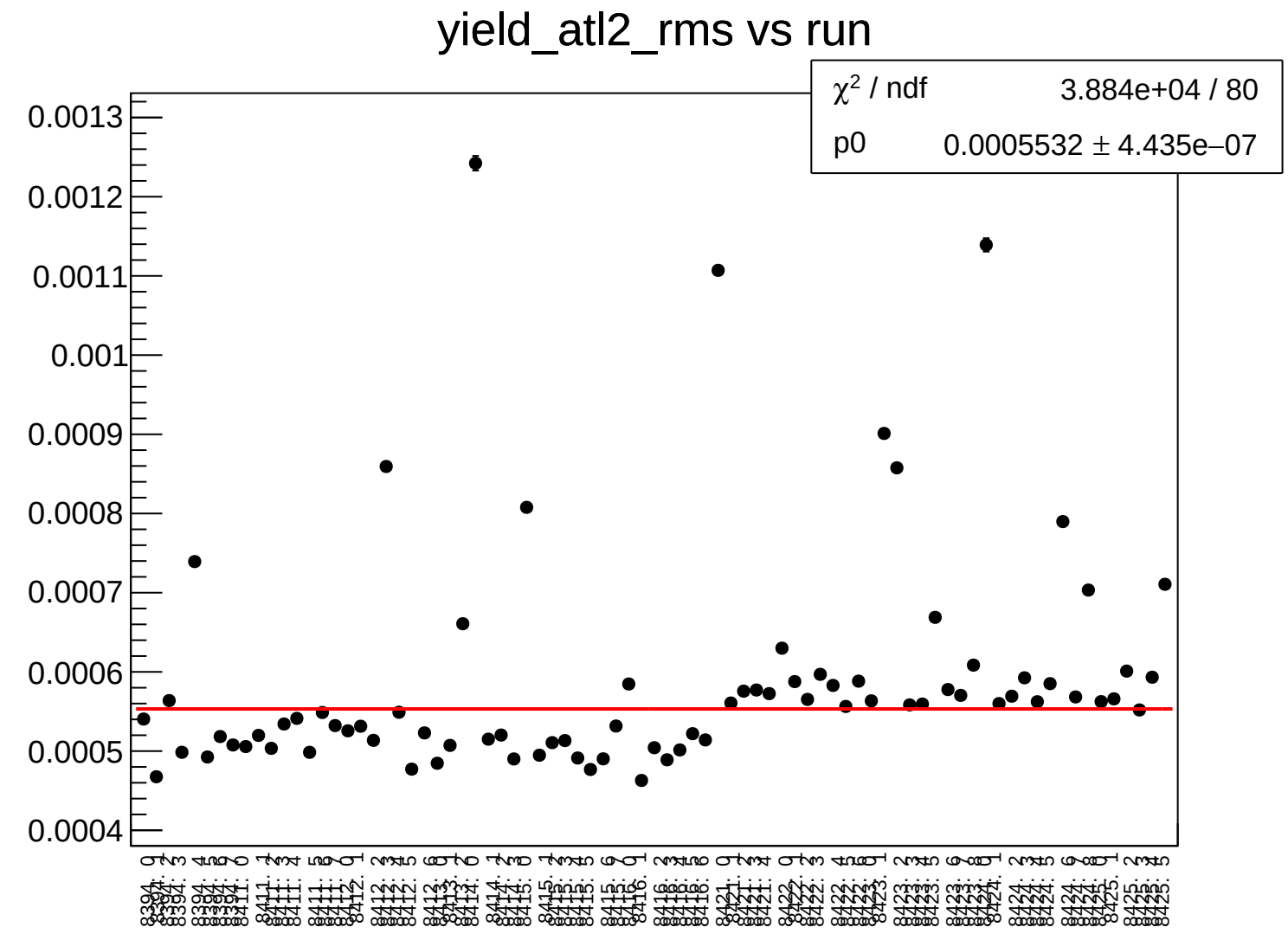

yield_atl1_mean vs run
χ² / ndf 2.017e+05 / 80
p0 0.02692 ± 9.148e−08
0.02706
0.02704
0.02702
0.027
0.02698
0.02696
0.02694
0.02692
0.0269
0.02688
0.02686
pull
Entries 81
Mean 528.3
Std Dev 496
150
100
50
0
−50

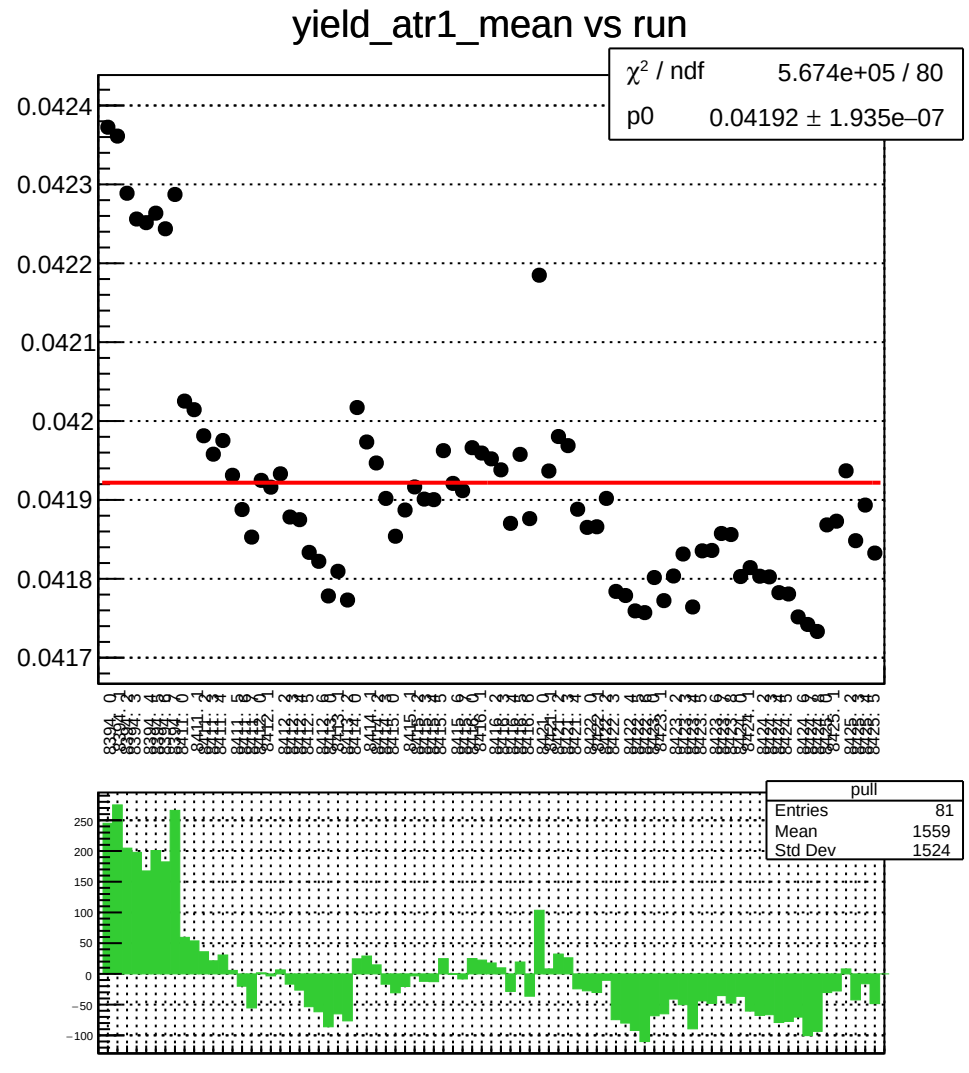

pull1D
Entries 81
Mean −2.306
Std Dev 4.386
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

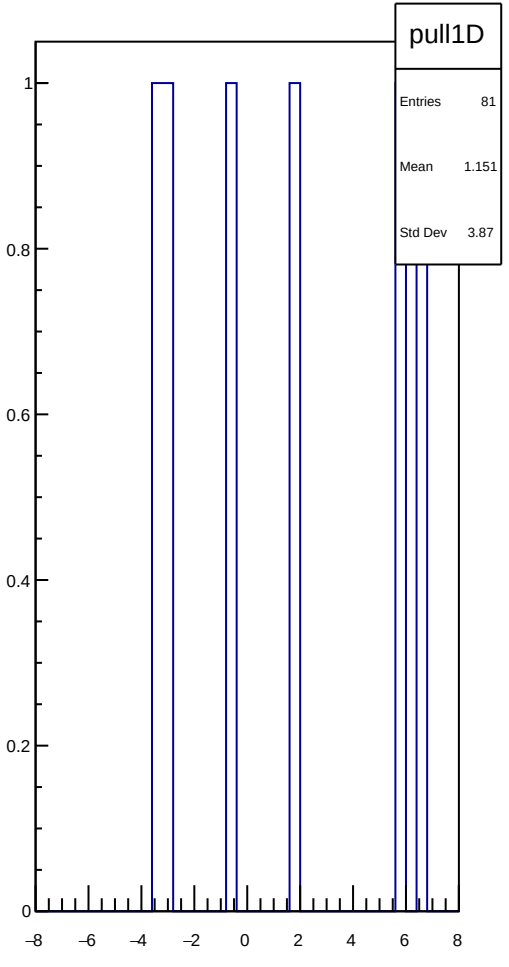

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.081e+04 / 80
p0 8.141e−05 ± 6.468e−08
0.16
0.14
0.12
0.1
0.08

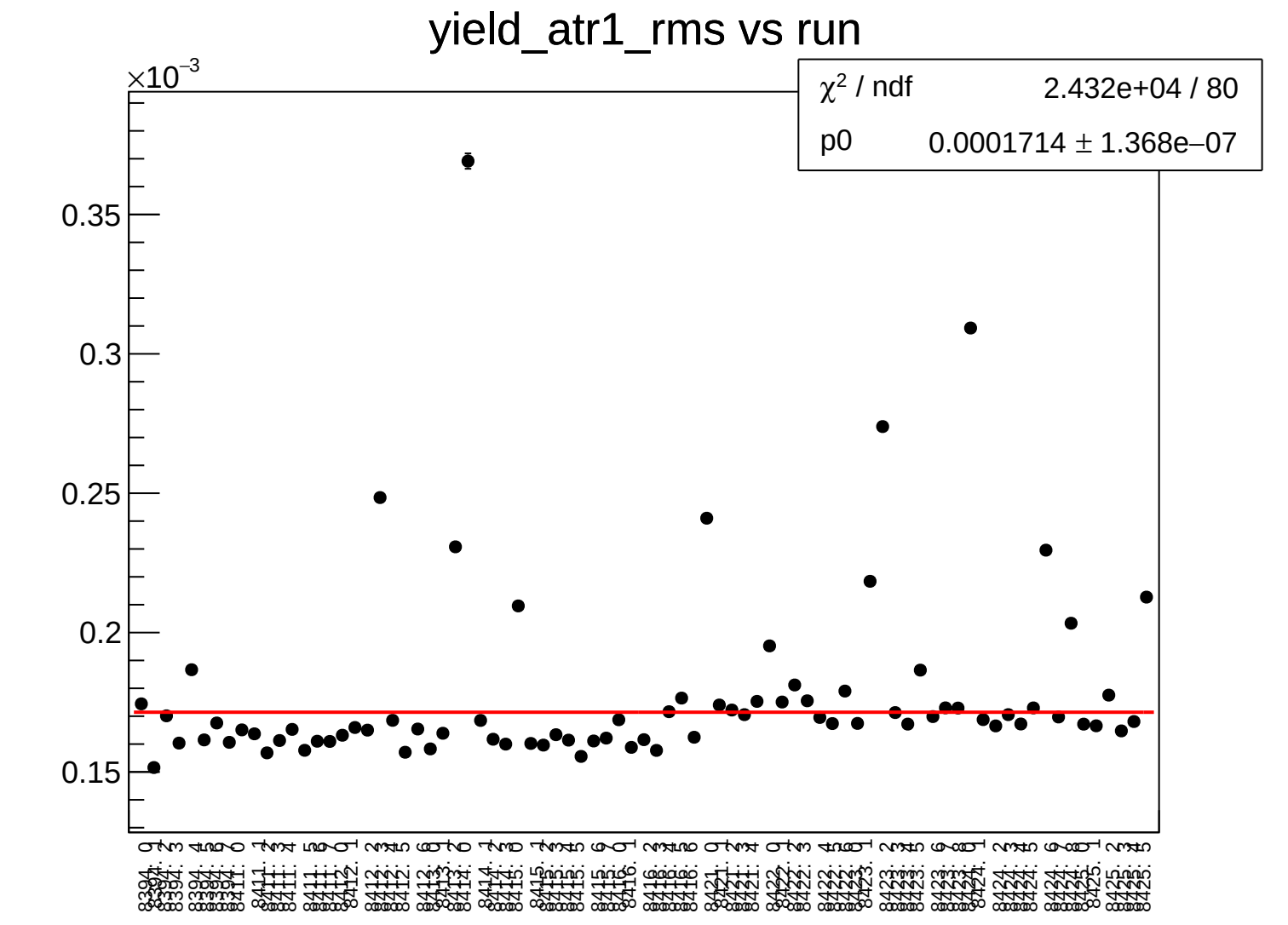

yield_atl2_mean vs run
χ² / ndf 5.686e+05 / 80
p0 0.03546 ± 6.272e−07
0.037
0.0365
0.036
0.0355
0.035
pull
Entries 81
Mean 579.7
Std Dev 547.9
300
250
200
150
100
50
0
−50
−100

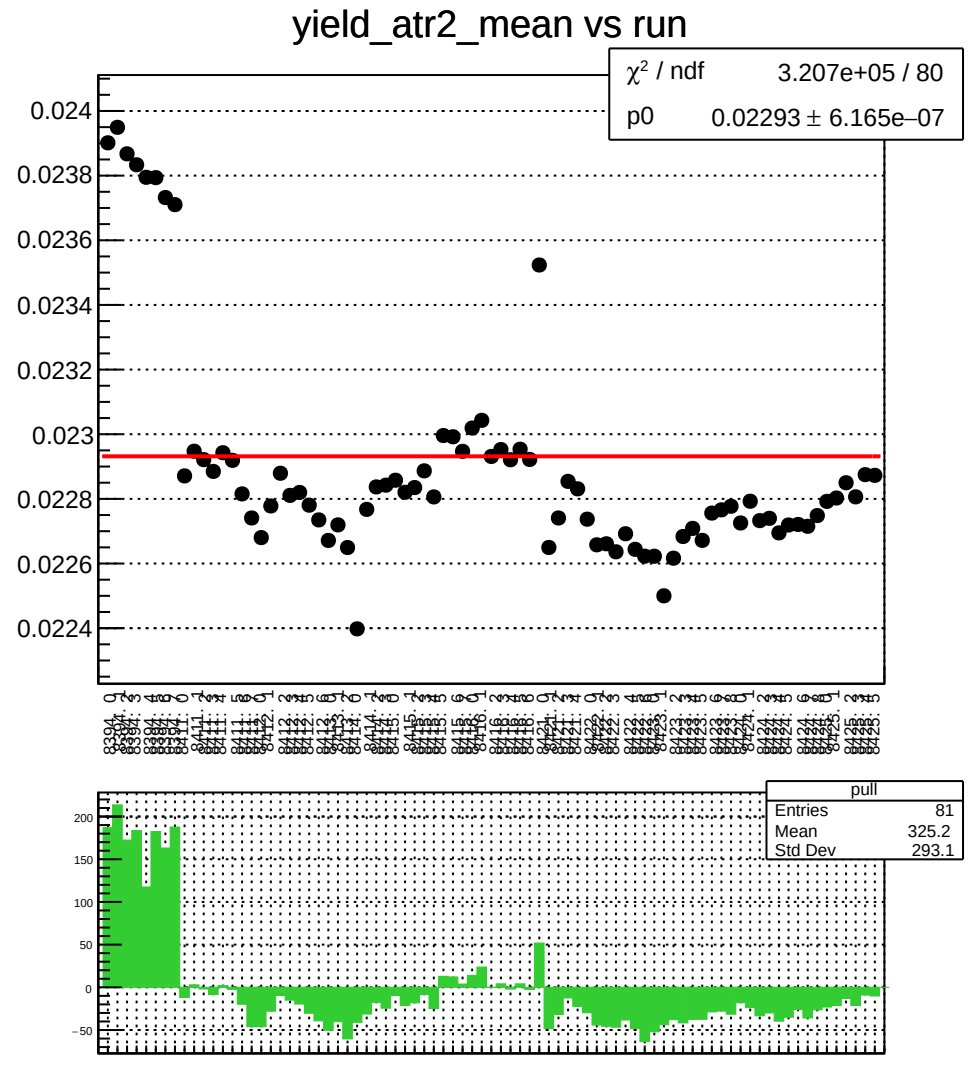

pull1D
Entries 81
Mean −0.4713
Std Dev 4.696
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

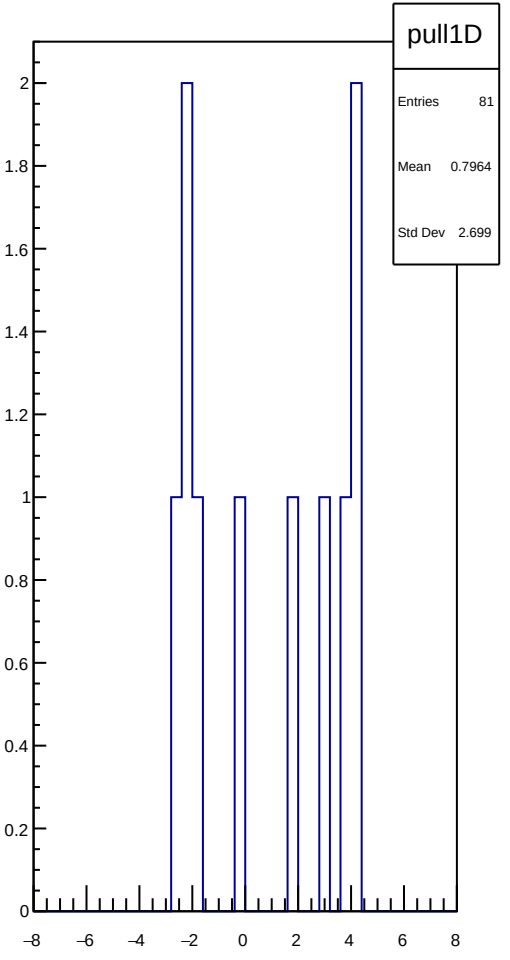

yield_atl2_rms vs run
χ² / ndf 3.884e+04 / 80
p0 0.0005532 ± 4.435e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

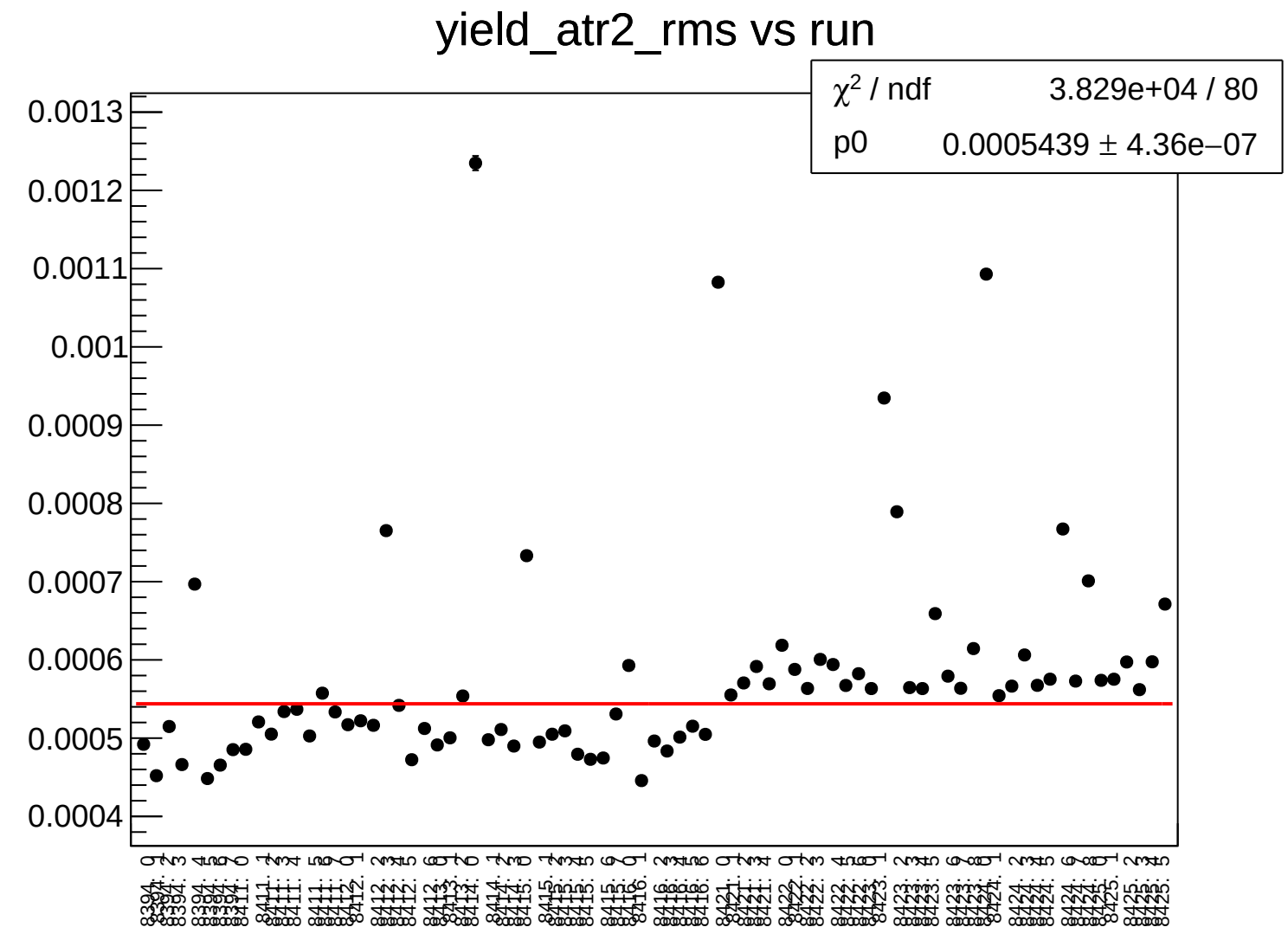

yield_atr1_mean vs run
χ² / ndf 5.674e+05 / 80
p0 0.04192 ± 1.935e−07
0.0424
0.0423
0.0422
0.0421
0.042
0.0419
0.0418
0.0417
pull
Entries 81
Mean 1559
Std Dev 1524
250
200
150
100
50
0
−50
−100

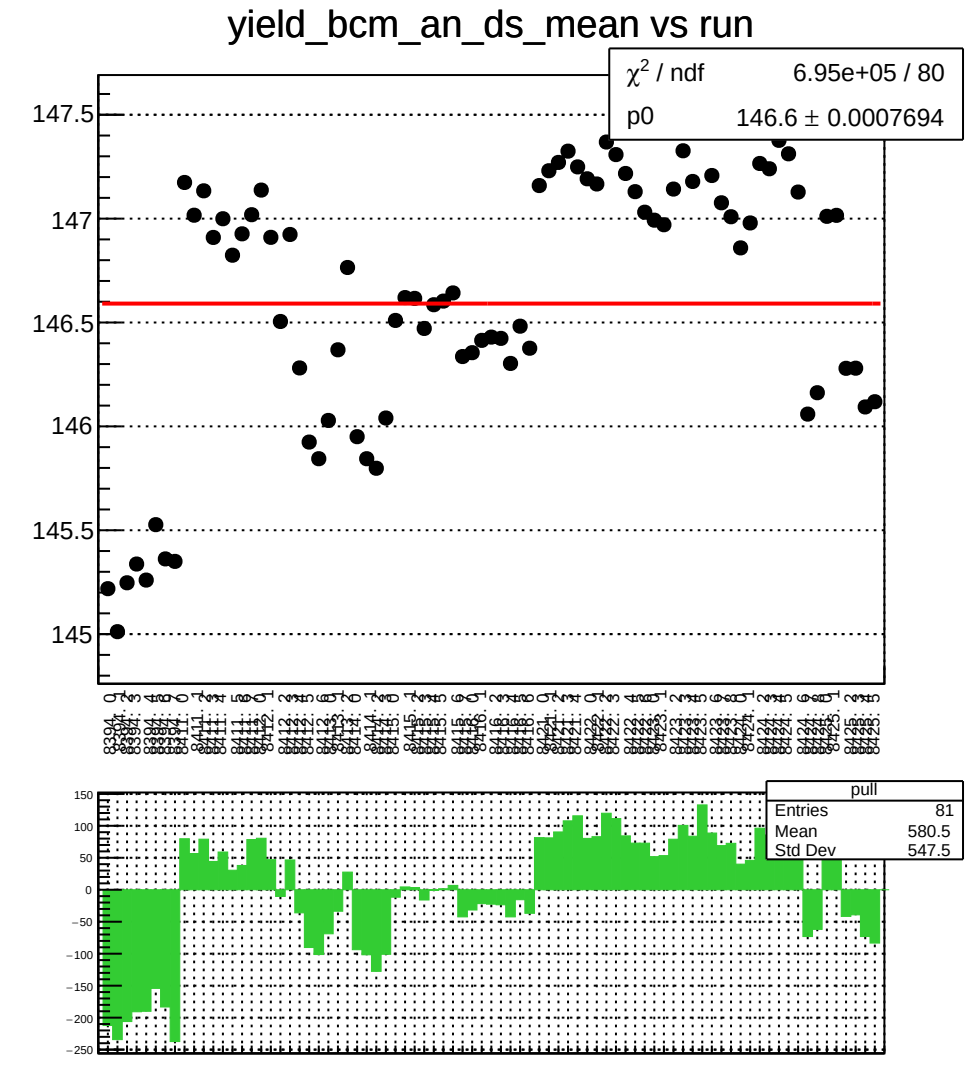

pull1D
Entries 81
Mean 1.151
Std Dev 3.87
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

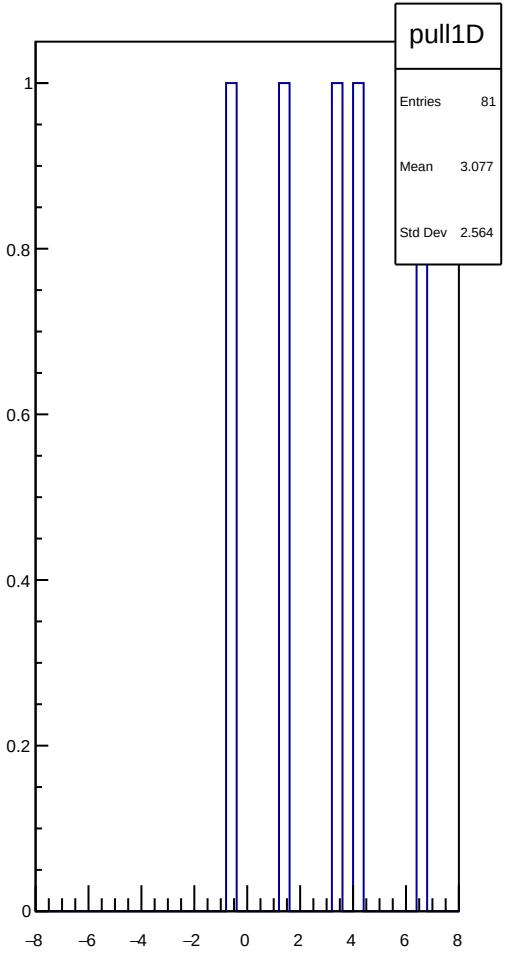

yield_atr1_rms vs run
×10⁻³
χ² / ndf 2.432e+04 / 80
p0 0.0001714 ± 1.368e−07
0.35
0.3
0.25
0.2
0.15

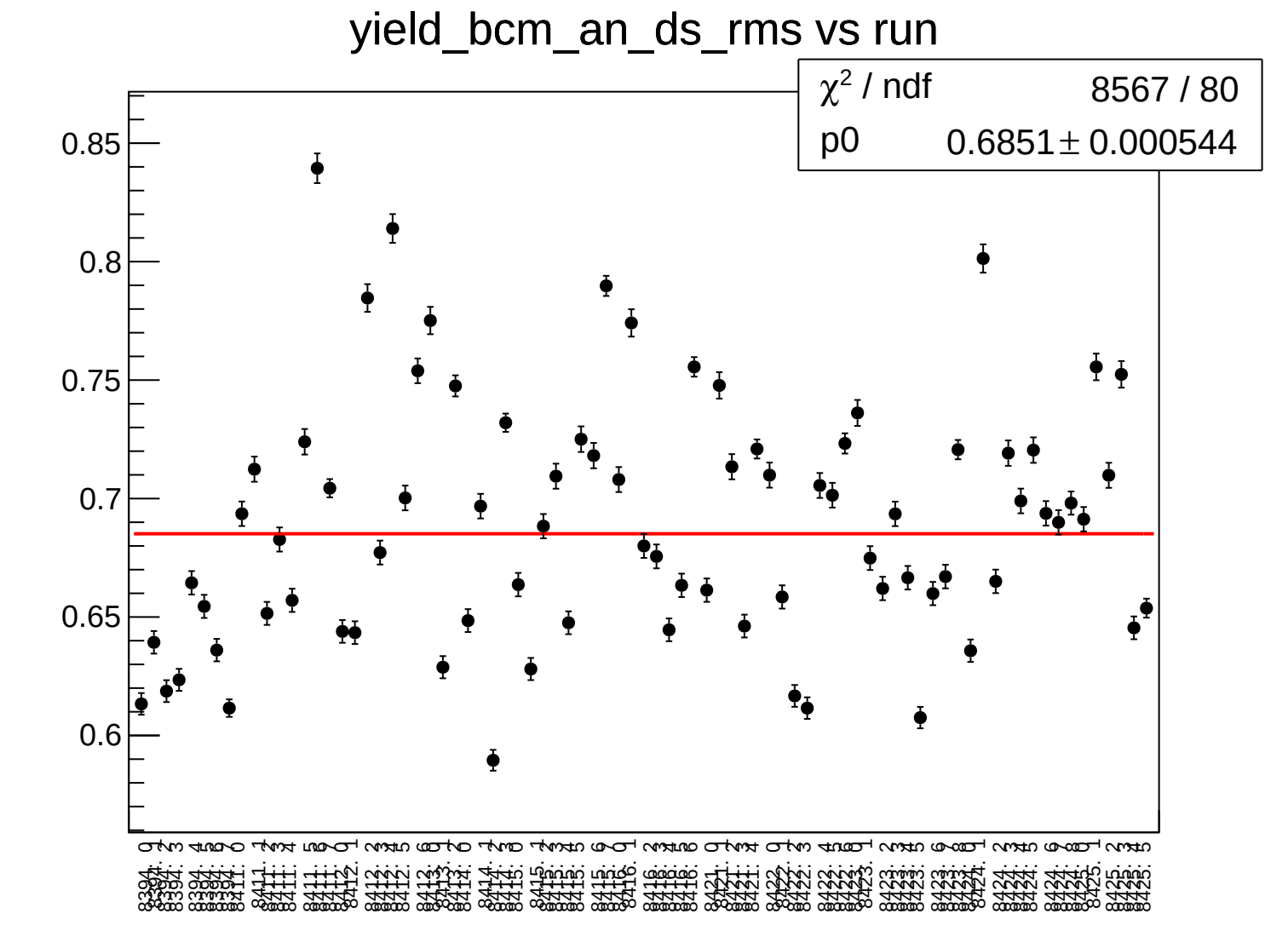

yield_atr2_mean vs run
χ² / ndf 3.207e+05 / 80
p0 0.02293 ± 6.165e−07
0.024
0.0238
0.0236
0.0234
0.0232
0.023
0.0228
0.0226
0.0224
pull
Entries 81
Mean 325.2
Std Dev 293.1
200
150
100
50
0
−50

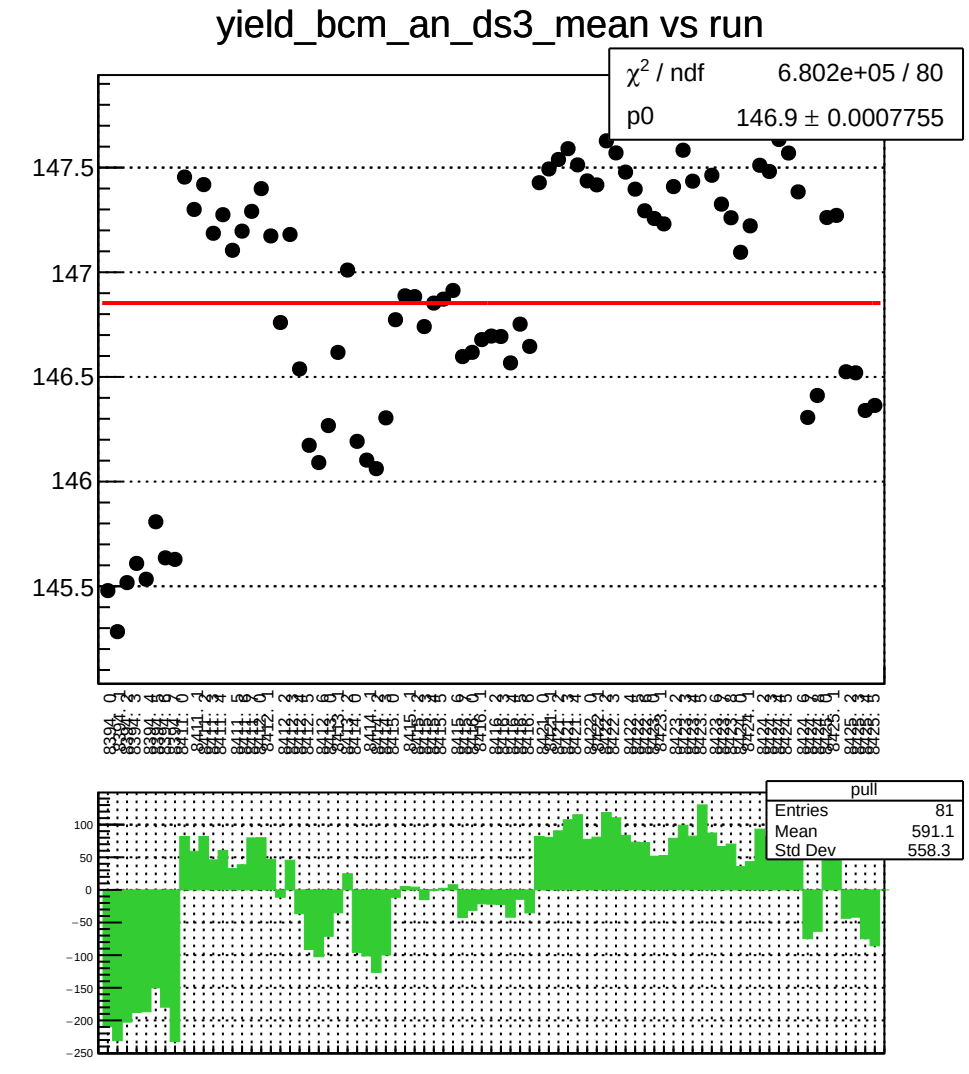

pull1D
Entries 81
Mean 0.7964
Std Dev 2.699
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

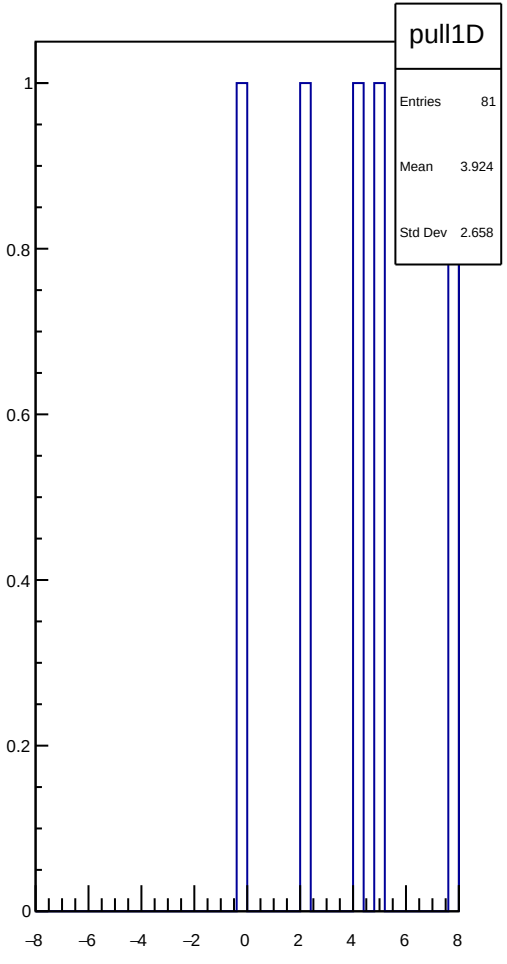

yield_atr2_rms vs run
χ² / ndf 3.829e+04 / 80
p0 0.0005439 ± 4.36e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

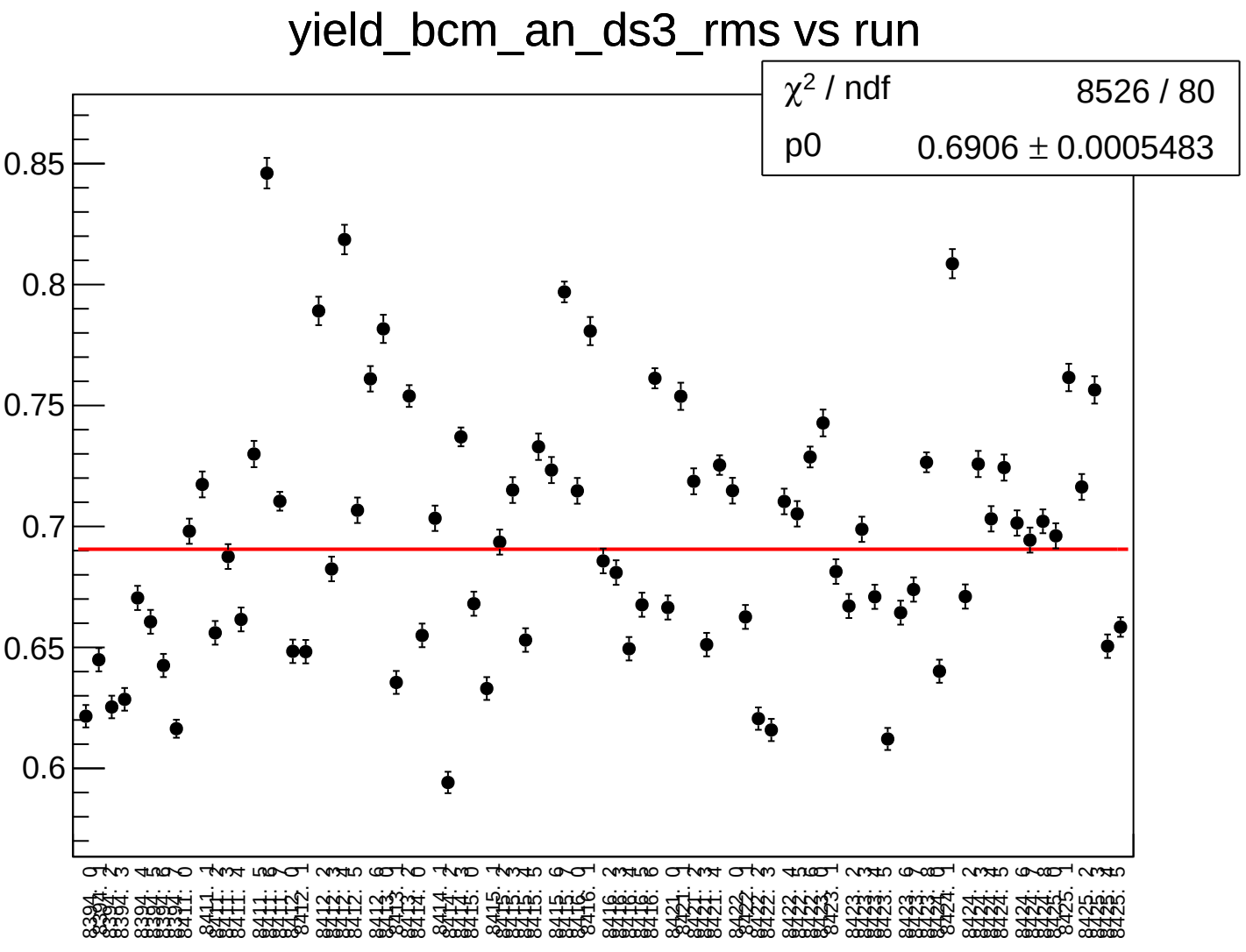

yield_bcm_an_ds_mean vs run
χ² / ndf 6.95e+05 / 80
p0 146.6 ± 0.0007694
147.5
147
146.5
146
145.5
145
pull
Entries 81
Mean 580.5
Std Dev 547.5
150
100
50
0
−50
−100
−150
−200
−250

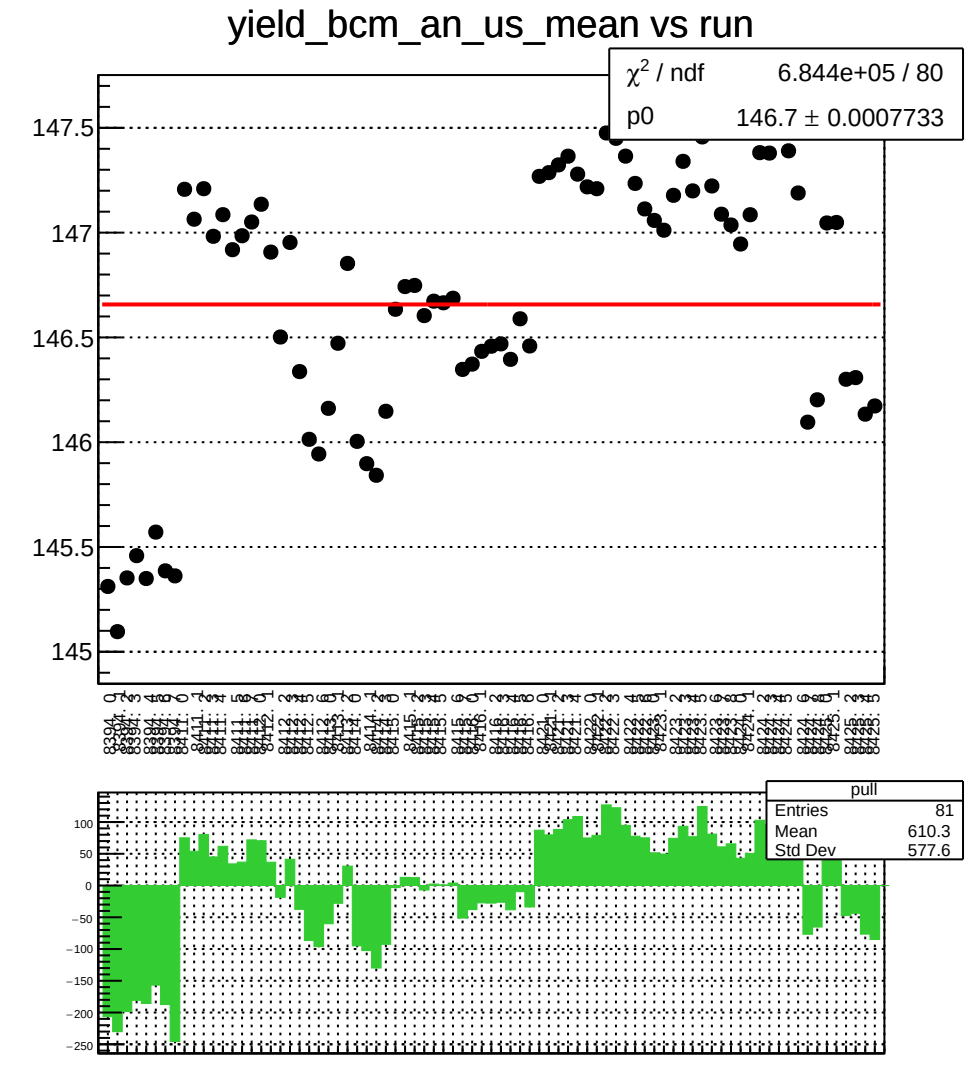

pull1D
Entries 81
Mean 3.077
Std Dev 2.564
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

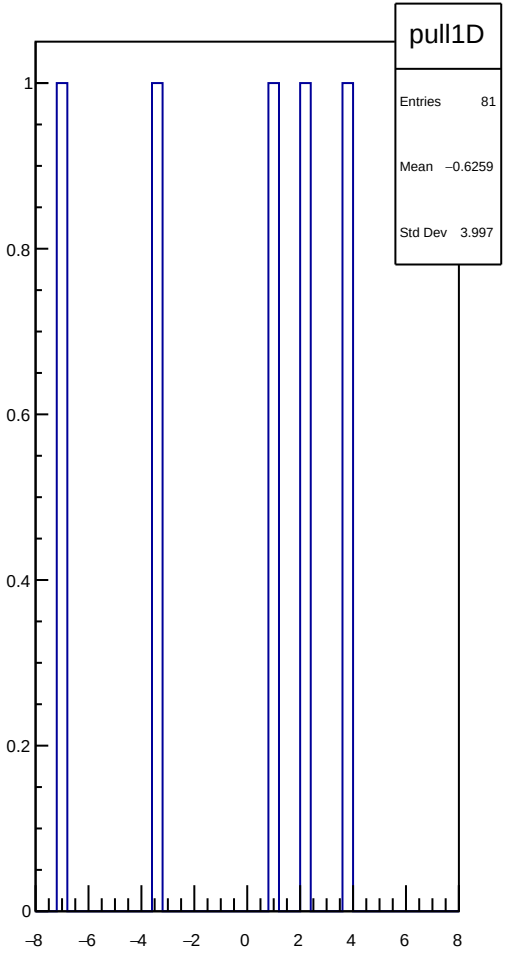

yield_bcm_an_ds_rms vs run
χ² / ndf 8567 / 80
p0 0.6851 ± 0.000544
0.85
0.8
0.75
0.7
0.65
0.6

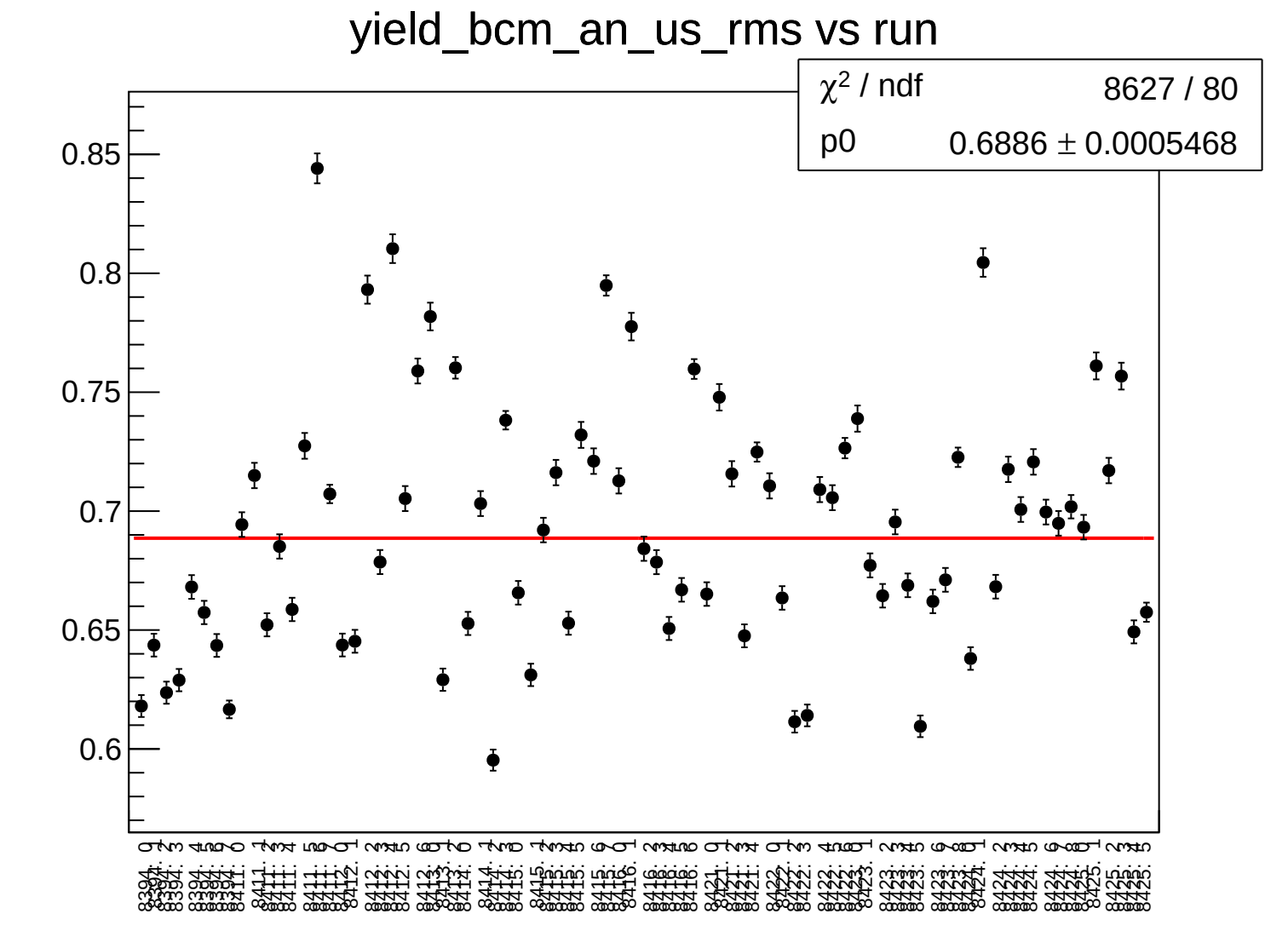

yield_bcm_an_ds3_mean vs run
χ² / ndf 6.802e+05 / 80
p0 146.9 ± 0.0007755
147.5
147
146.5
146
145.5
pull
Entries 81
Mean 591.1
Std Dev 558.3
100
50
0
−50
−100
−150
−200
−250

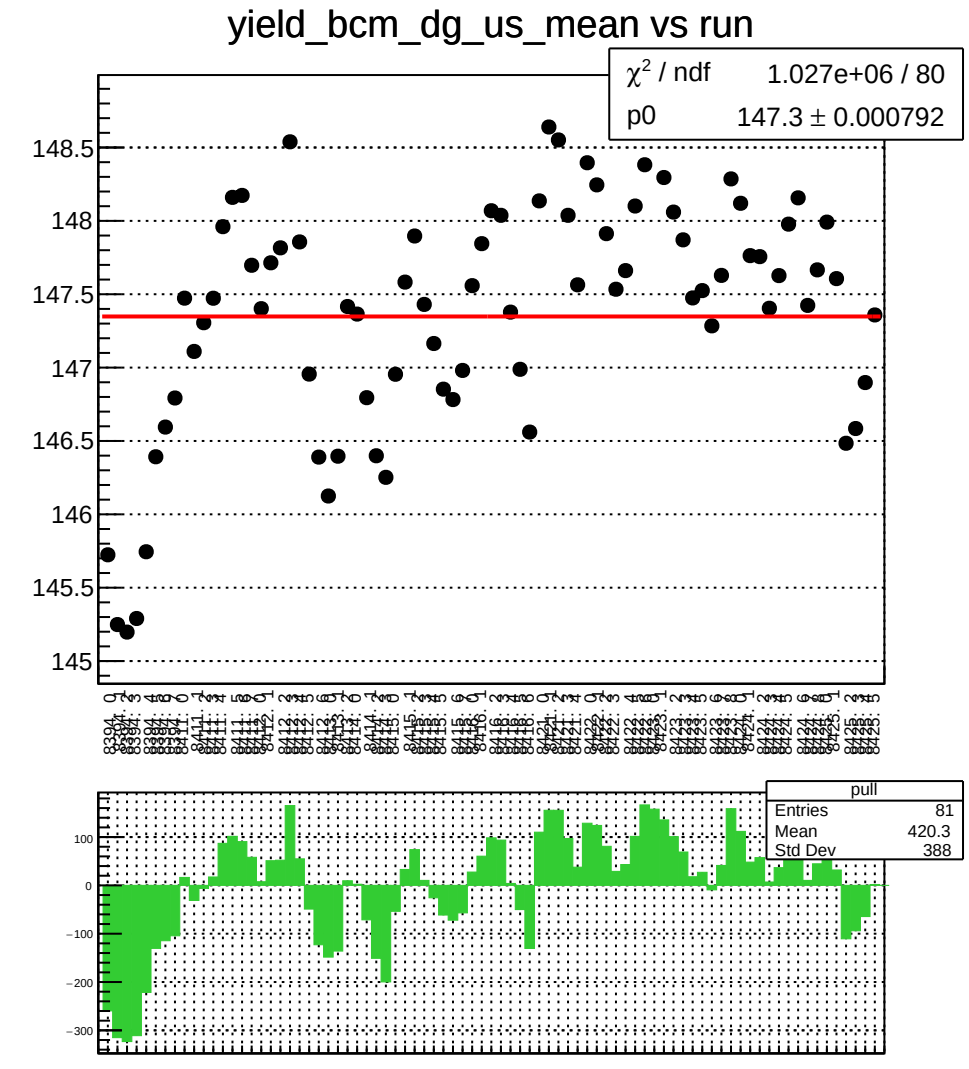

pull1D
Entries 81
Mean 3.924
Std Dev 2.658
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

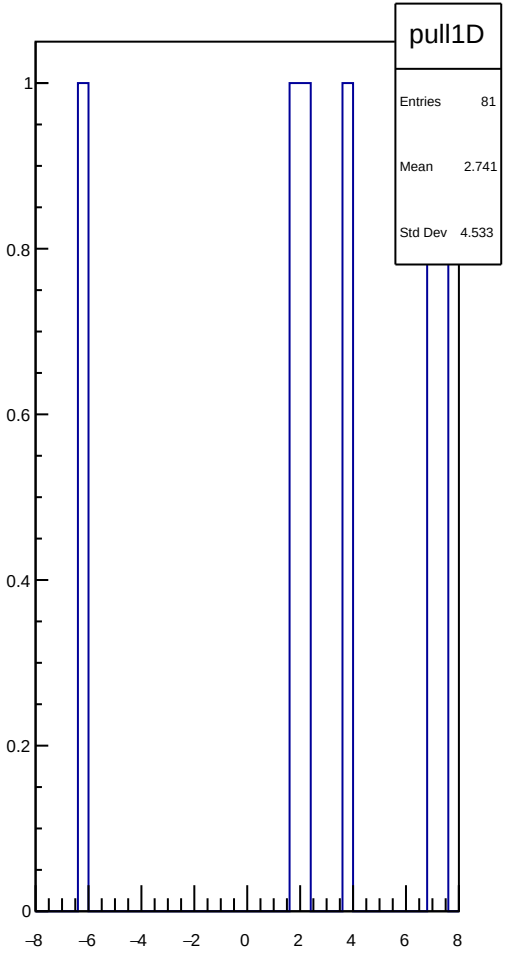

yield_bcm_an_ds3_rms vs run
χ² / ndf 8526 / 80
p0 0.6906 ± 0.0005483
0.85
0.8
0.75
0.7
0.65
0.6

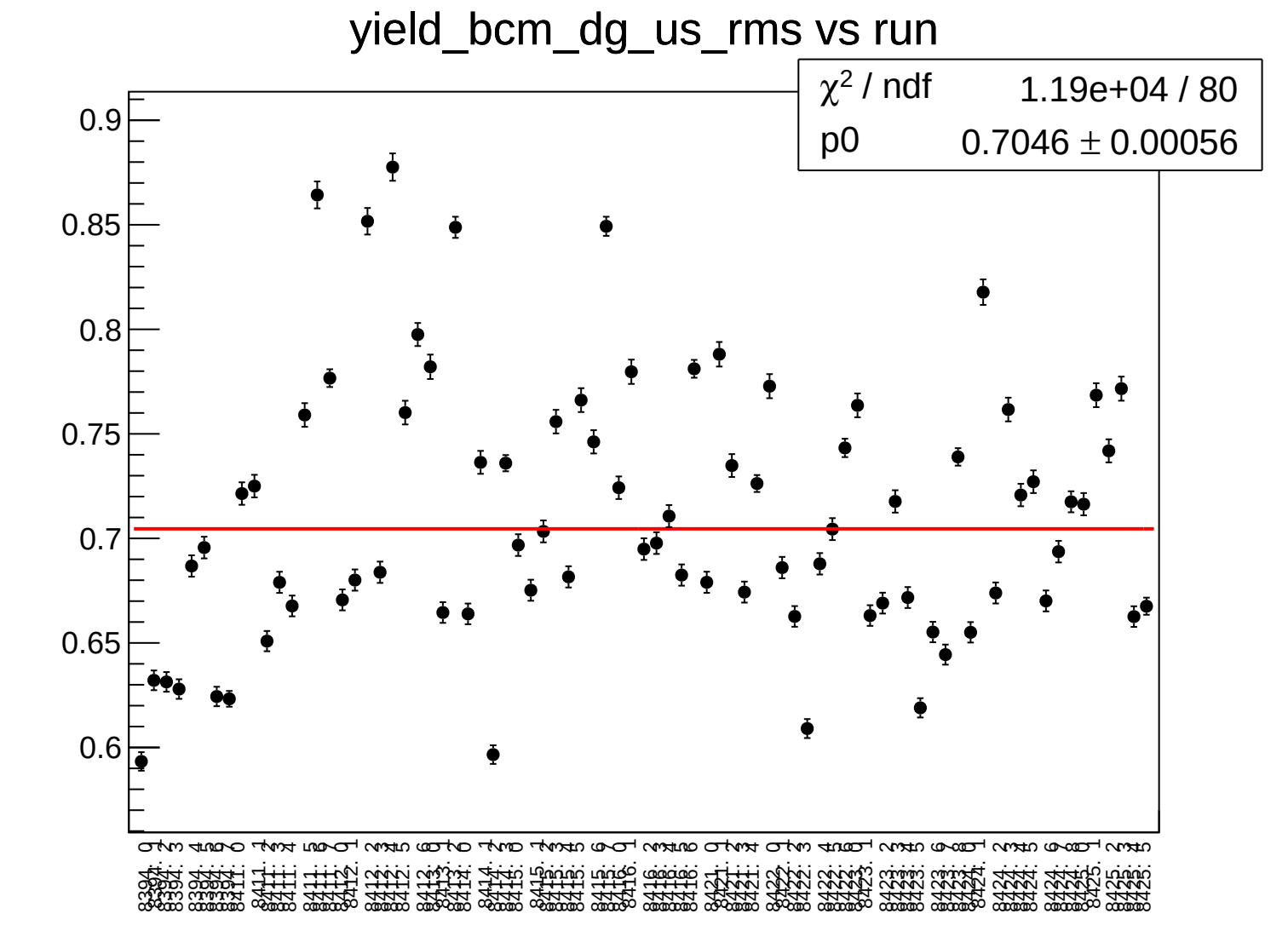

yield_bcm_an_us_mean vs run
χ² / ndf 6.844e+05 / 80
p0 146.7 ± 0.0007733
147.5
147
146.5
146
145.5
145
pull
Entries 81
Mean 610.3
Std Dev 577.6
100
50
0
−50
−100
−150
−200
−250

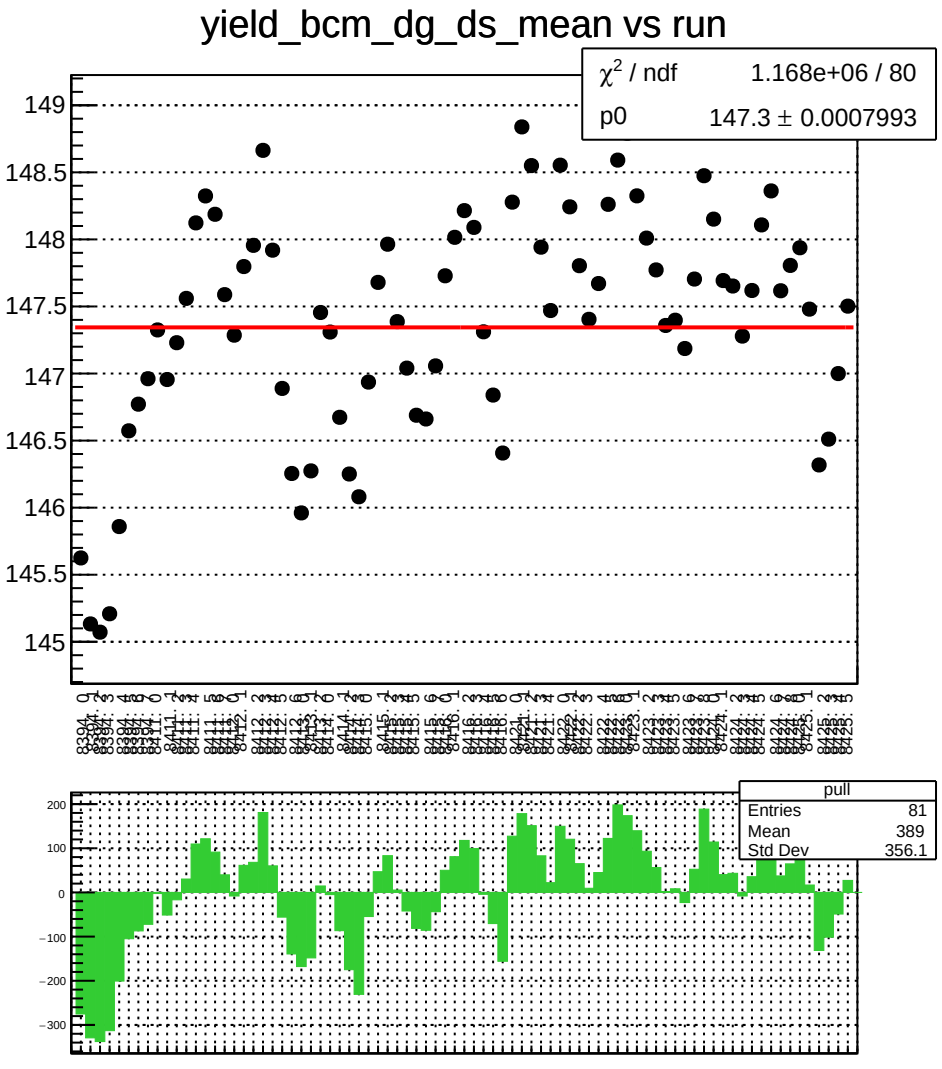

pull1D
Entries 81
Mean −0.6259
Std Dev 3.997
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

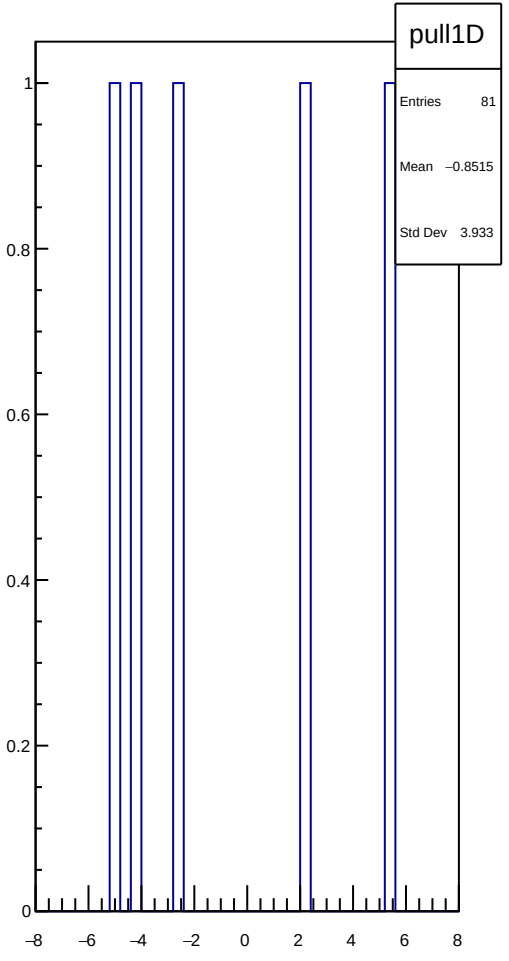

yield_bcm_an_us_rms vs run
χ² / ndf 8627 / 80
p0 0.6886 ± 0.0005468
0.85
0.8
0.75
0.7
0.65
0.6

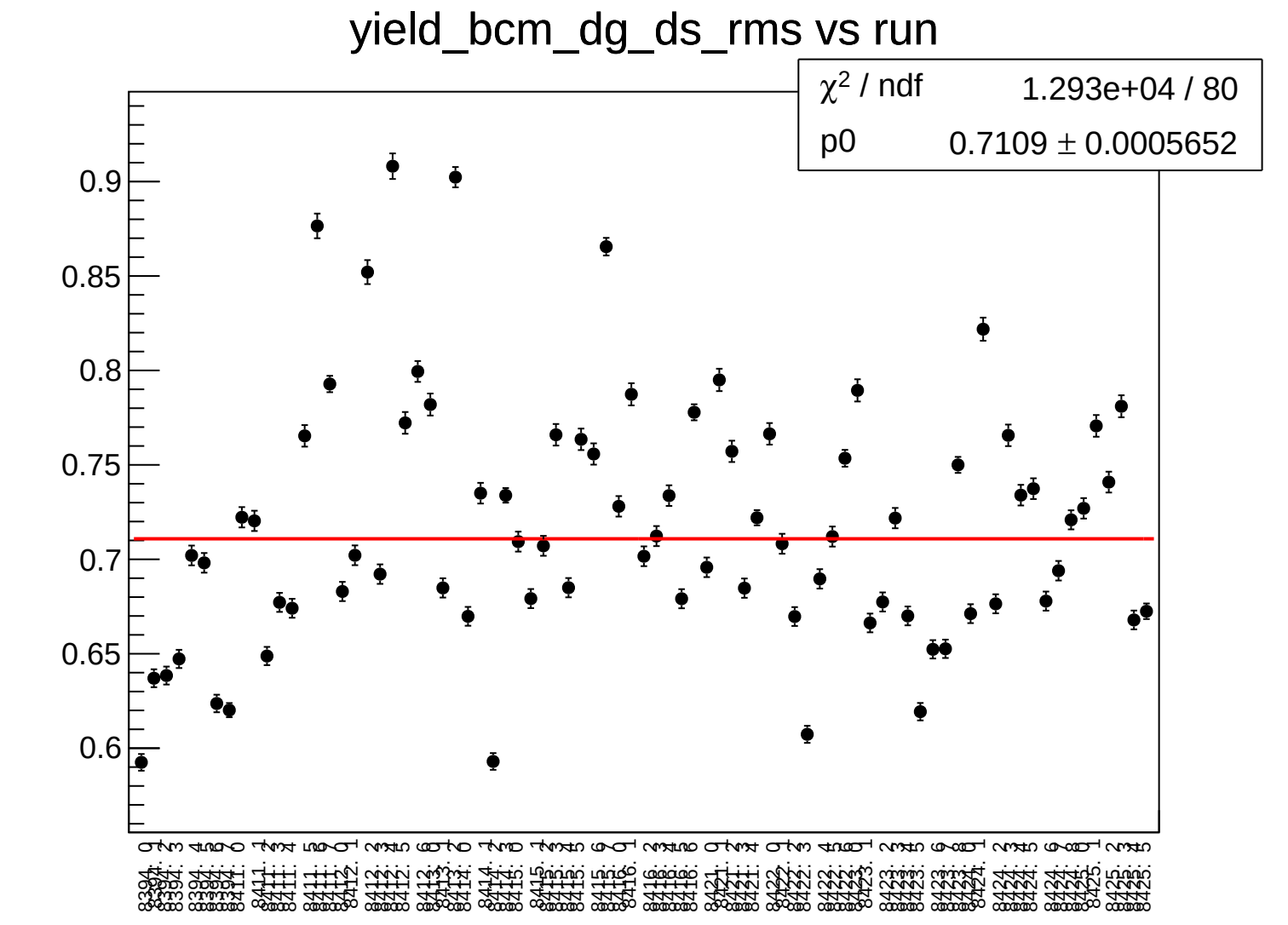

yield_bcm_dg_us_mean vs run
χ² / ndf 1.027e+06 / 80
p0 147.3 ± 0.000792
148.5
148
147.5
147
146.5
146
145.5
145
pull
Entries 81
Mean 420.3
Std Dev 388
100
0
−100
−200
−300

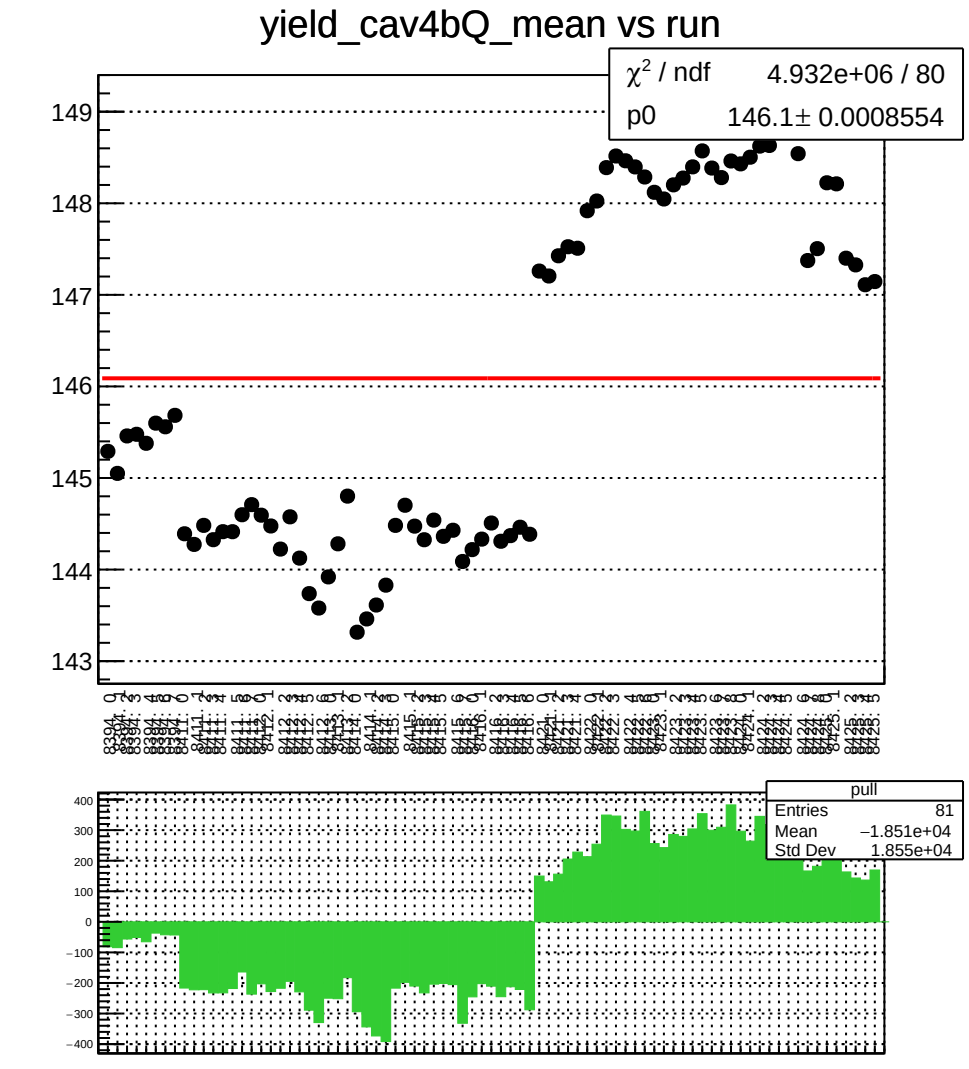

pull1D
Entries 81
Mean 2.741
Std Dev 4.533
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

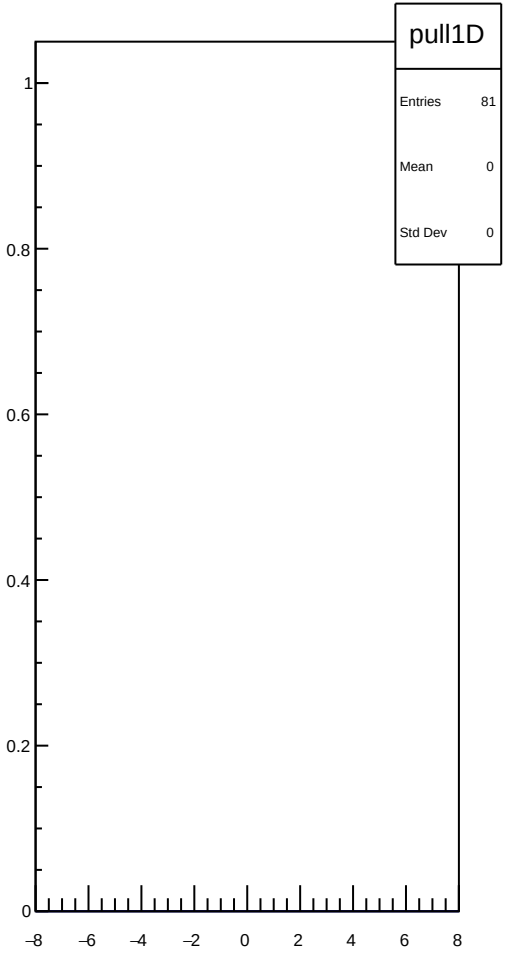

yield_bcm_dg_us_rms vs run
χ^2 / ndf 1.19e+04 / 80
p0 0.7046 ± 0.00056
0.9
0.85
0.8
0.75
0.7
0.65
0.6

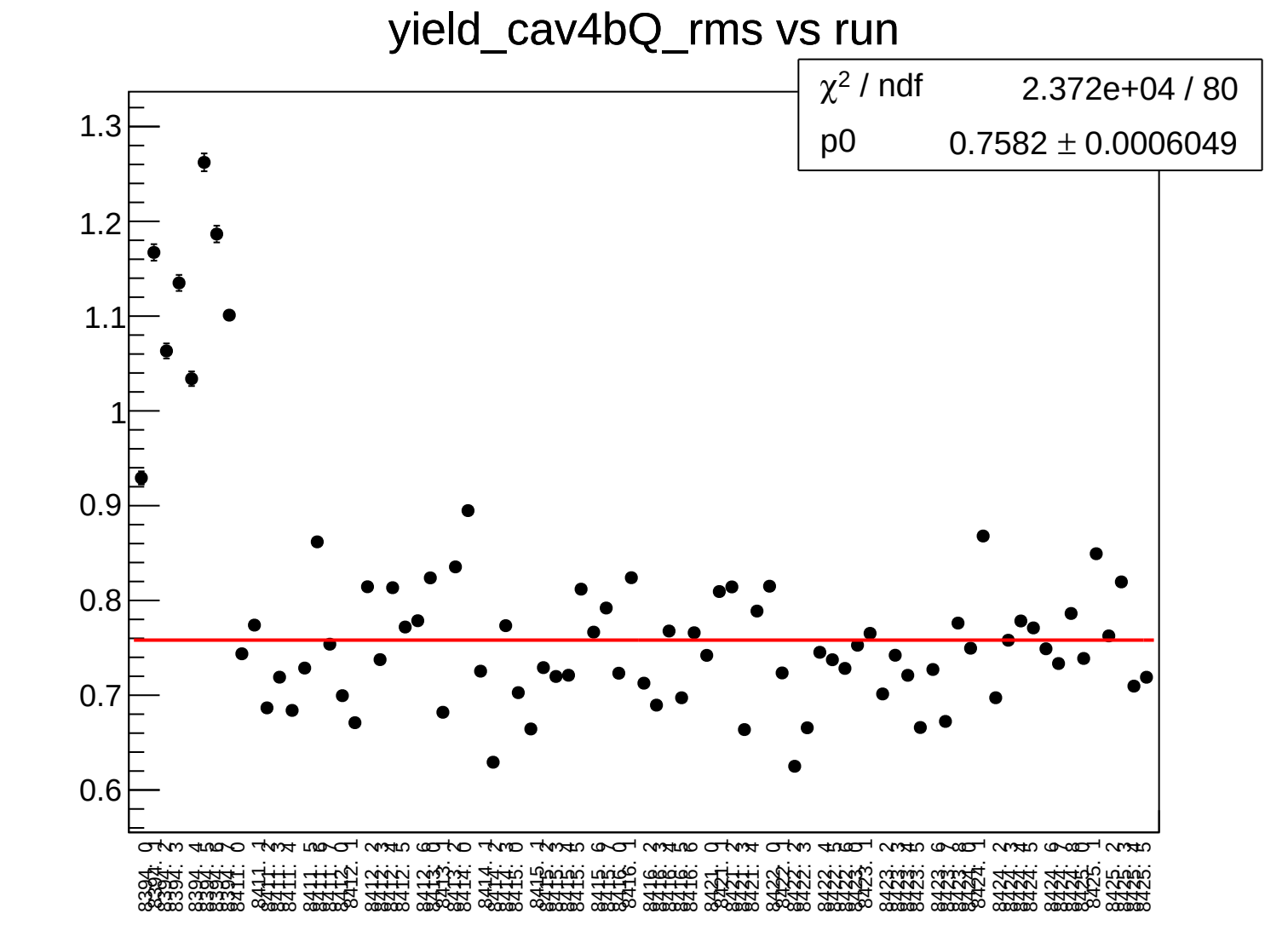

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.168e+06 / 80
p0 147.3 ± 0.0007993
149
148.5
148
147.5
147
146.5
146
145.5
145
pull
Entries 81
Mean 389
Std Dev 356.1
200
100
0
−100
−200
−300

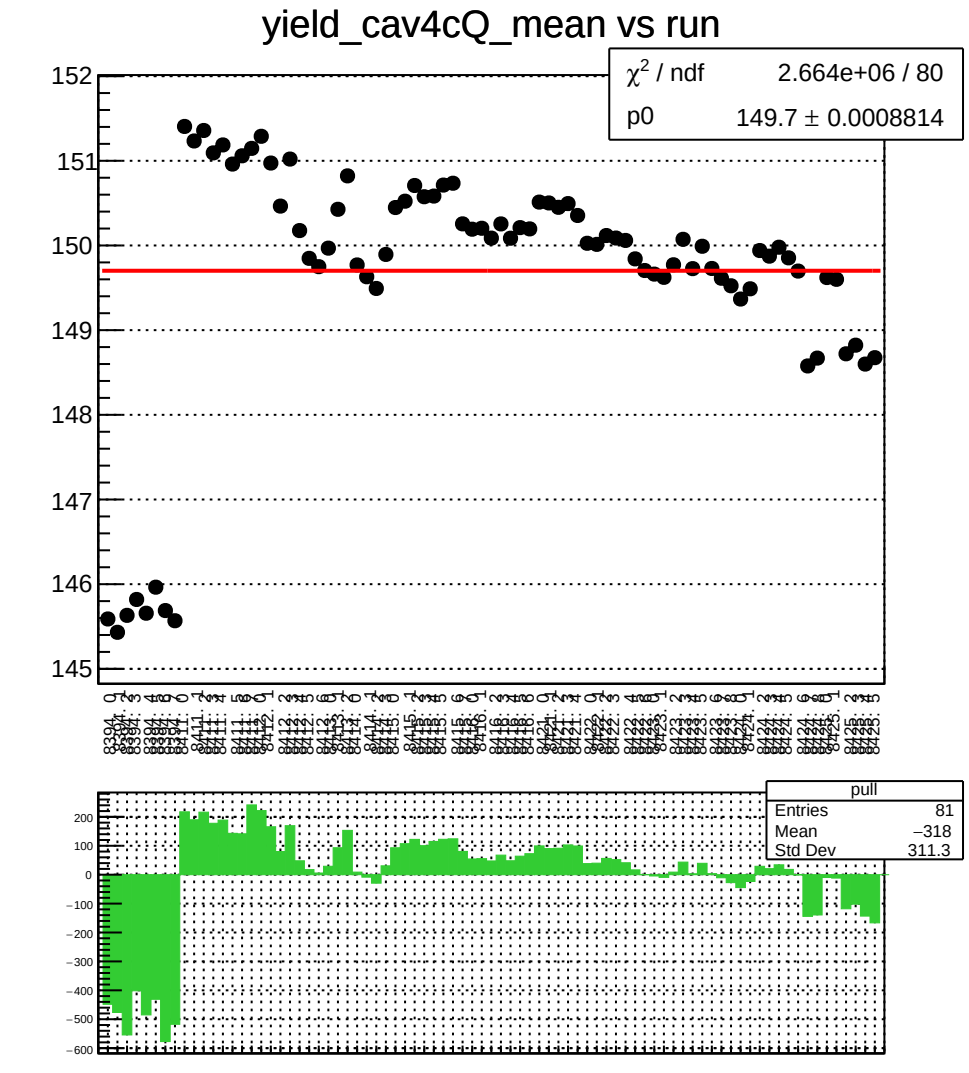

pull1D
Entries 81
Mean −0.8515
Std Dev 3.933
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

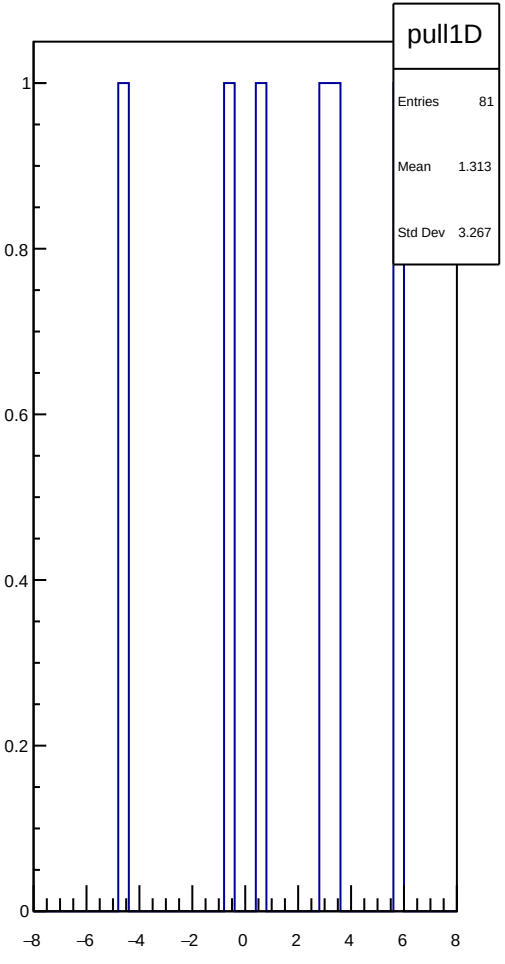

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.293e+04 / 80
p0 0.7109 ± 0.0005652
0.9
0.85
0.8
0.75
0.7
0.65
0.6

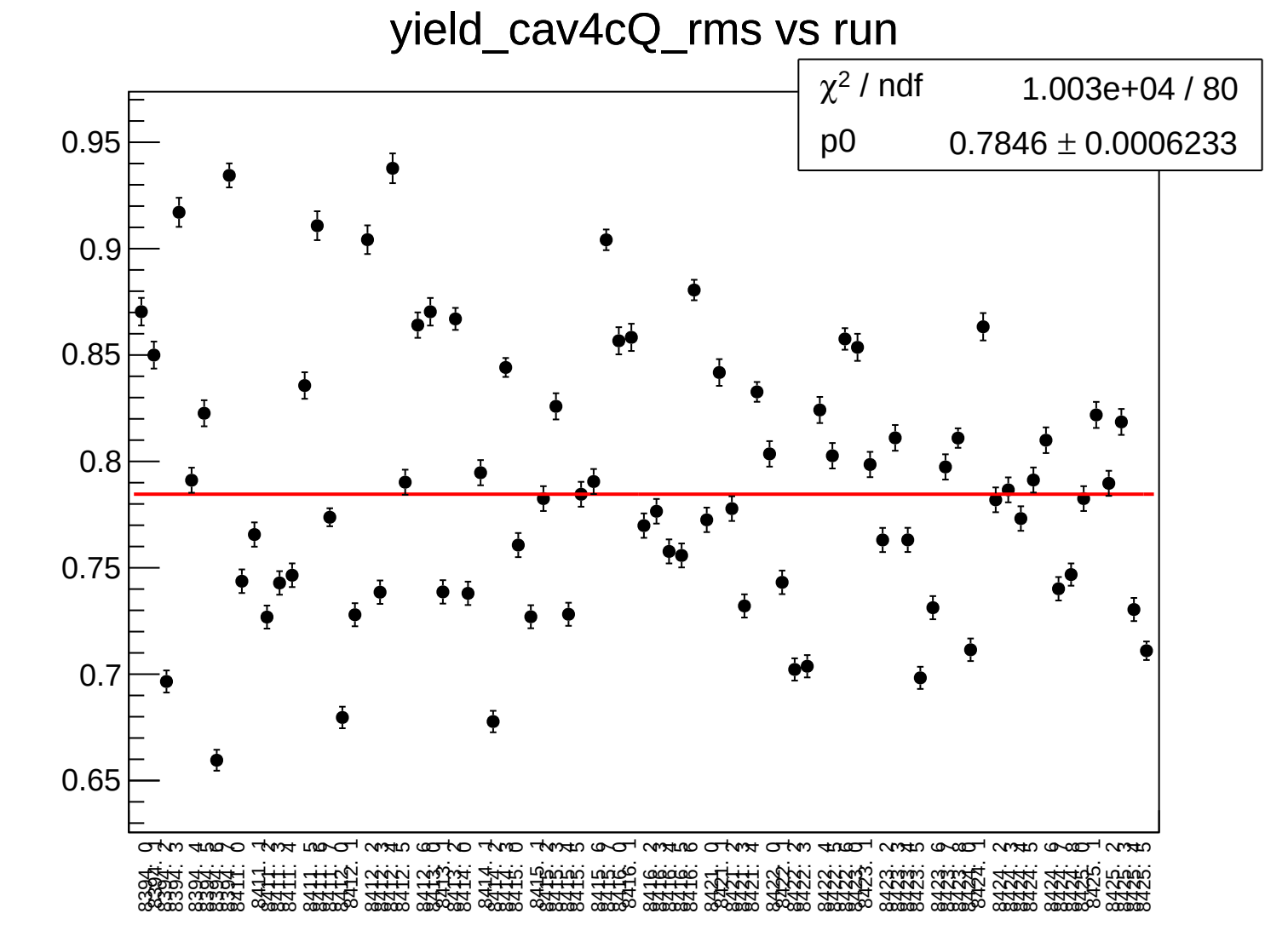

yield_cav4bQ_mean vs run
χ² / ndf 4.932e+06 / 80
p0 146.1± 0.0008554
149
148
147
146
145
144
143
pull
Entries 81
Mean −1.851e+04
Std Dev 1.855e+04
400
300
200
100
0
−100
−200
−300
−400

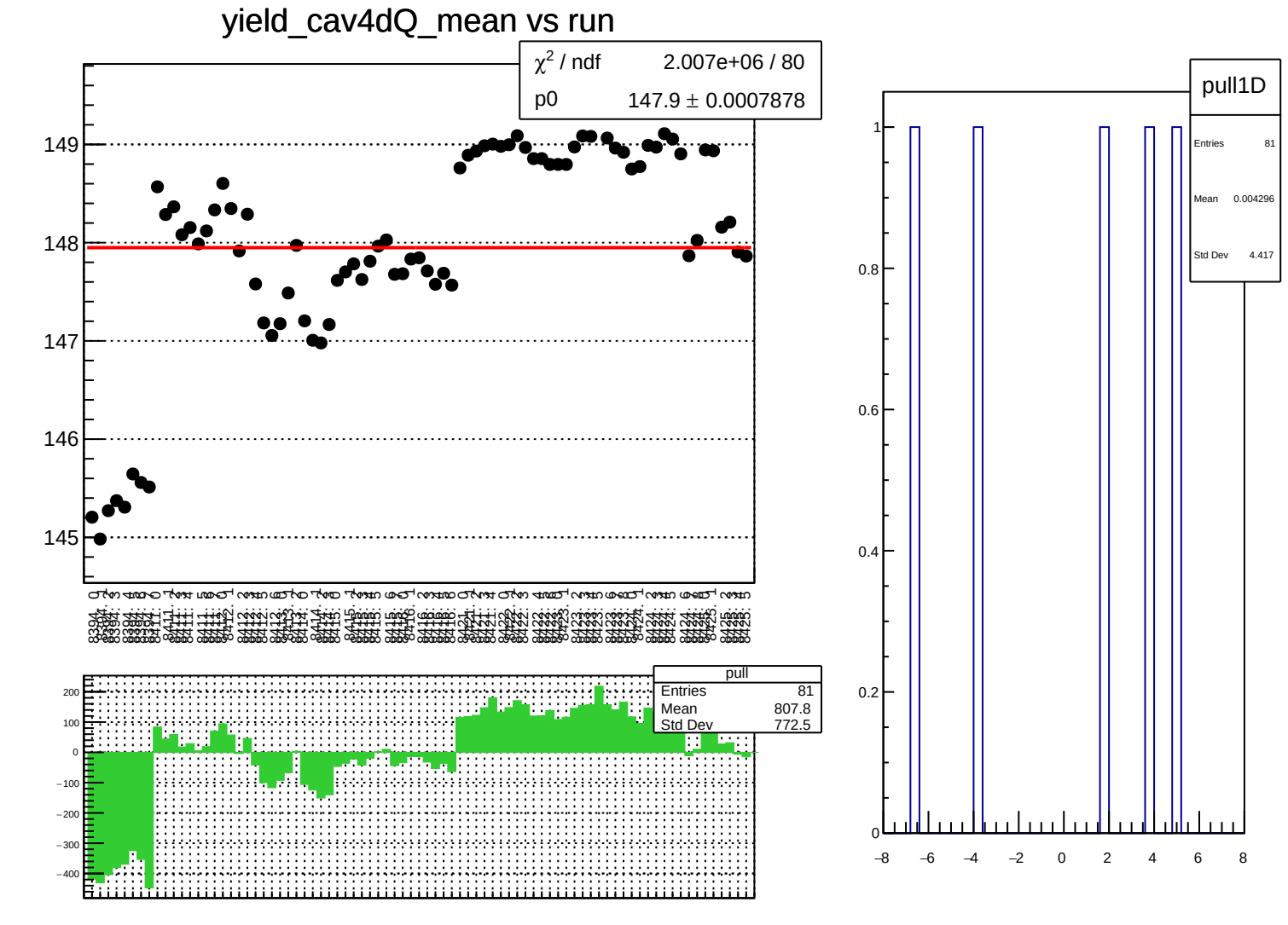

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

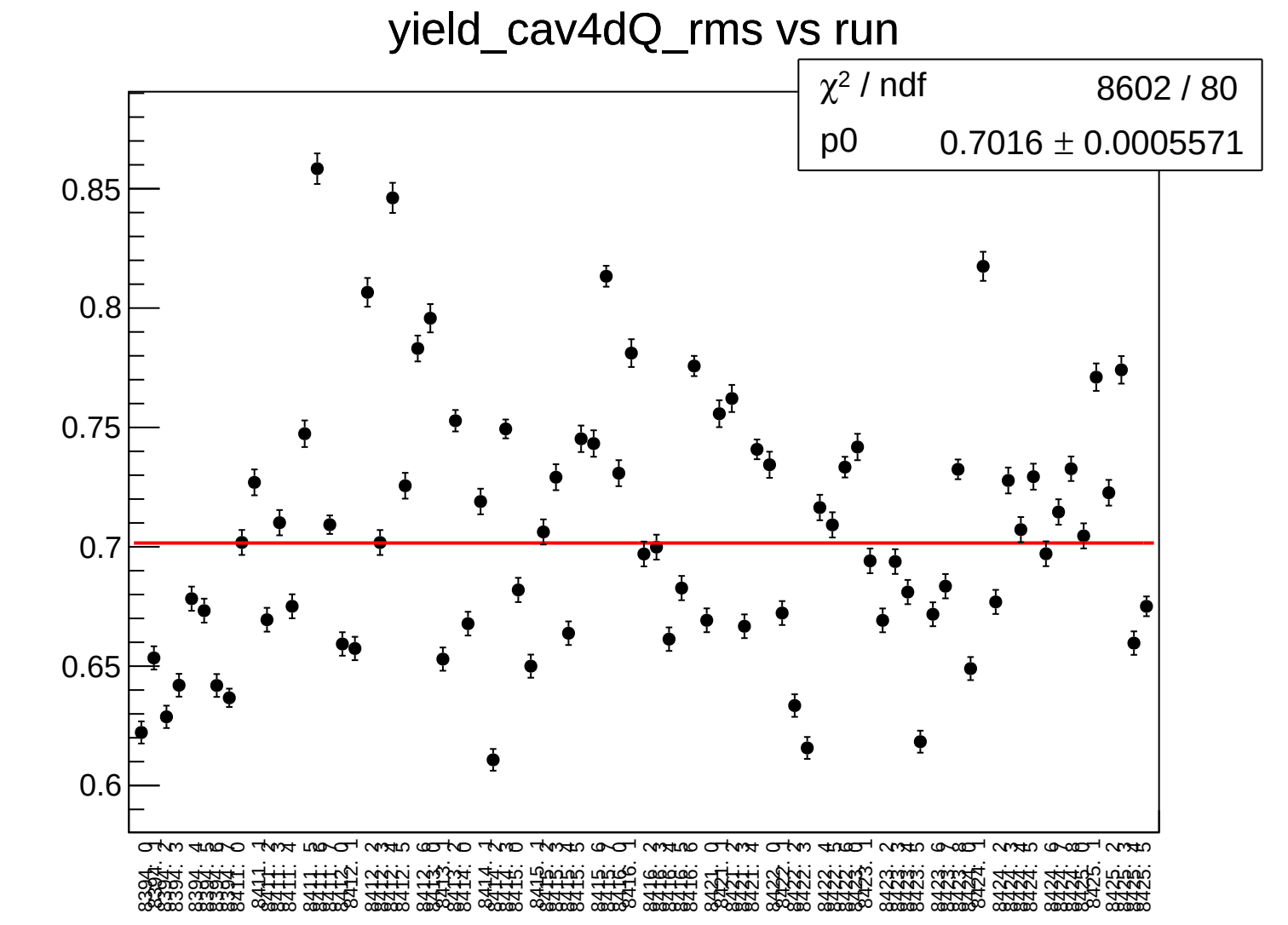

yield_cav4bQ_rms vs run
χ² / ndf 2.372e+04 / 80
p0 0.7582 ± 0.0006049
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6

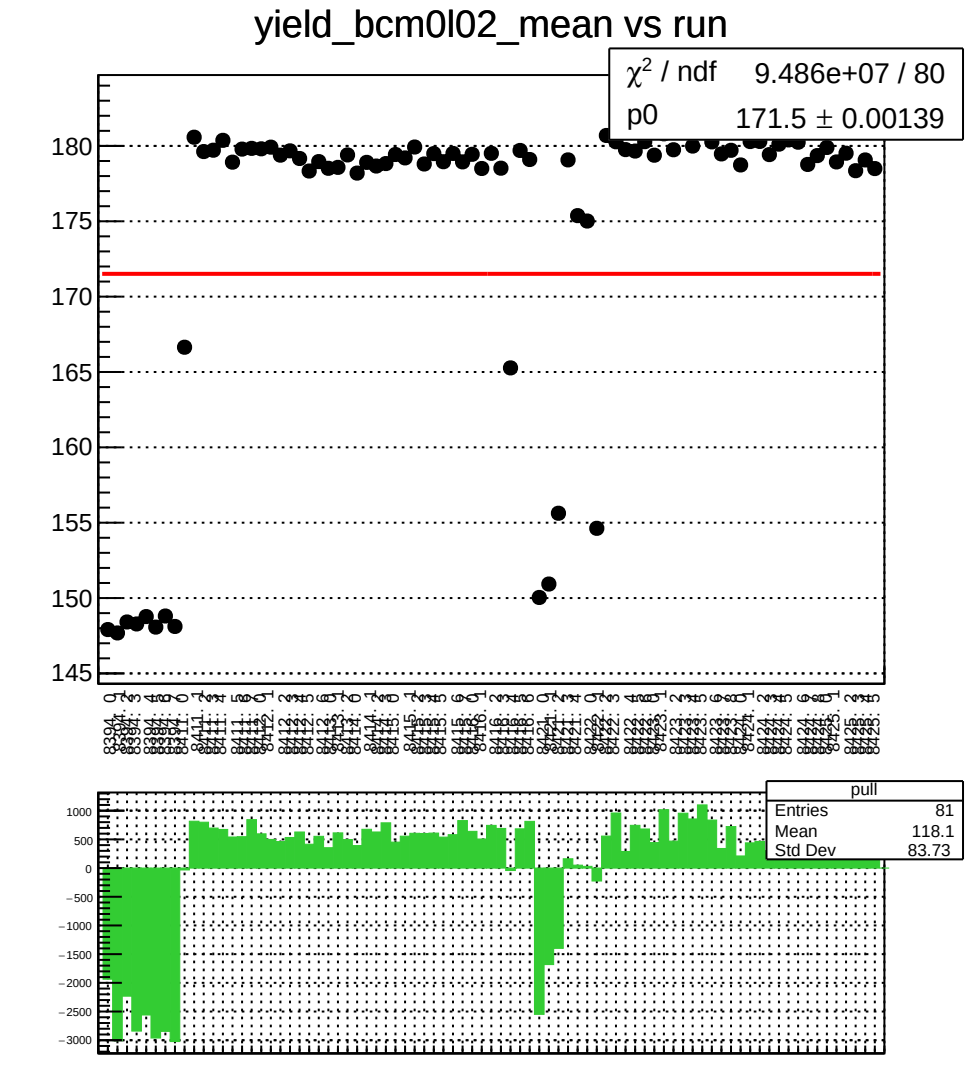

yield_cav4cQ_mean vs run
χ² / ndf 2.664e+06 / 80
p0 149.7 ± 0.0008814
pull
Entries 81
Mean −318
Std Dev 311.3

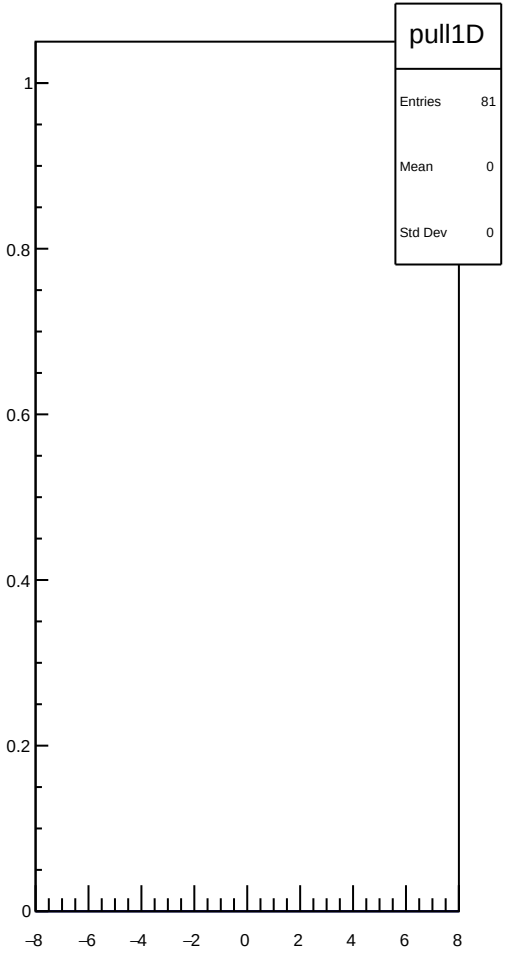

pull1D
Entries 81
Mean 1.313
Std Dev 3.267


yield_cav4cQ_rms vs run
χ² / ndf 1.003e+04 / 80
p0 0.7846 ± 0.0006233
0.95
0.9
0.85
0.8
0.75
0.7
0.65

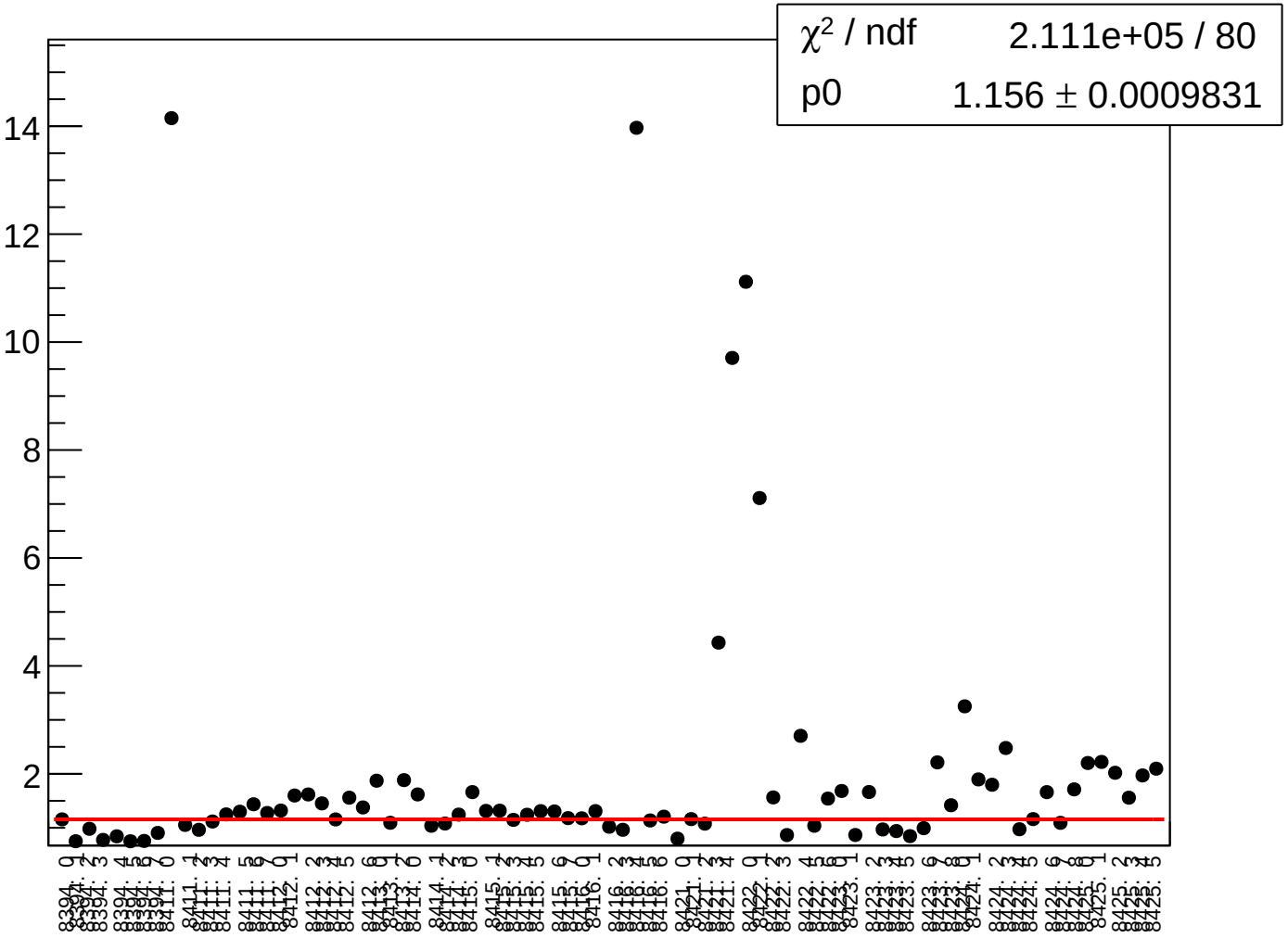

yield_cav4dQ_mean vs run
χ² / ndf 2.007e+06 / 80
p0 147.9 ± 0.0007878
149
148
147
146
145
pull
Entries 81
Mean 807.8
Std Dev 772.5
200
100
0
−100
−200
−300
−400
pull1D
Entries 81
Mean 0.004296
Std Dev 4.417
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

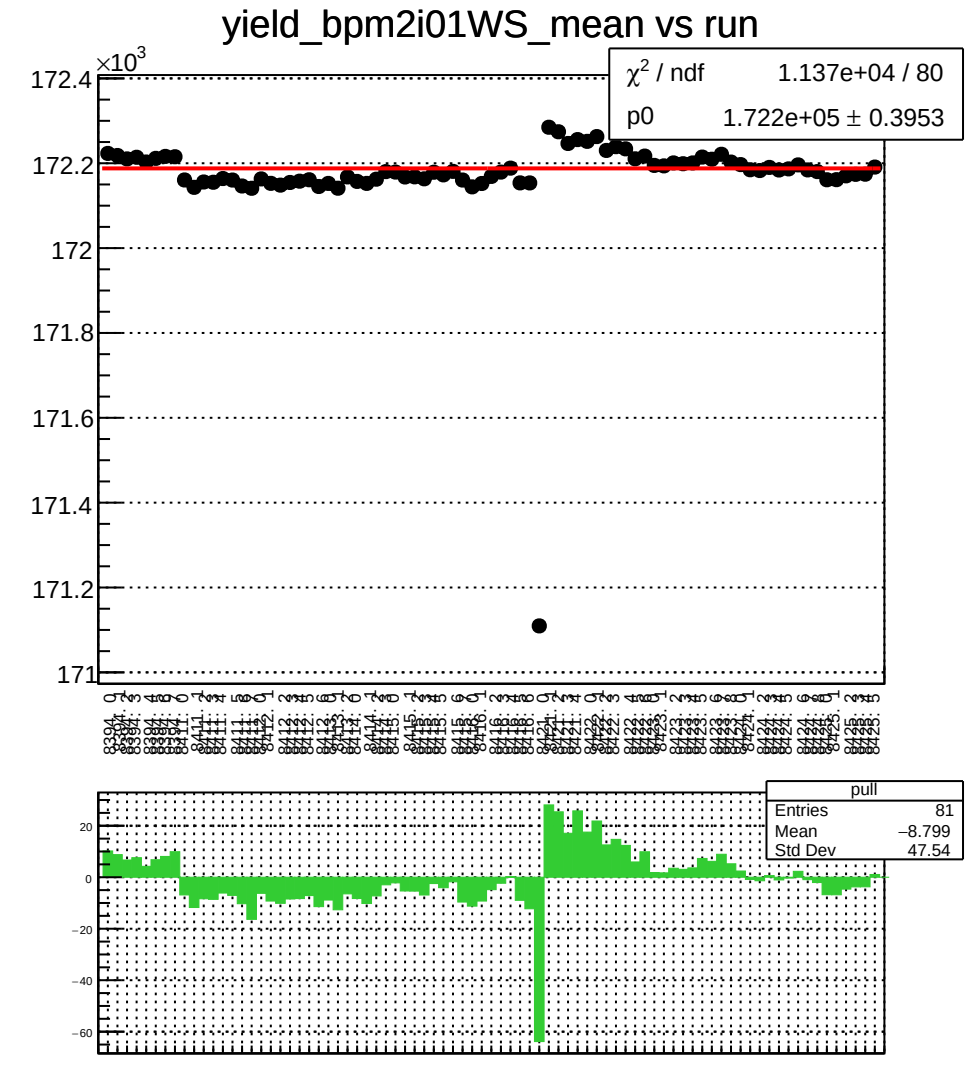

yield_cav4dQ_rms vs run
χ² / ndf 8602 / 80
p0 0.7016 ± 0.0005571
0.85
0.8
0.75
0.7
0.65
0.6

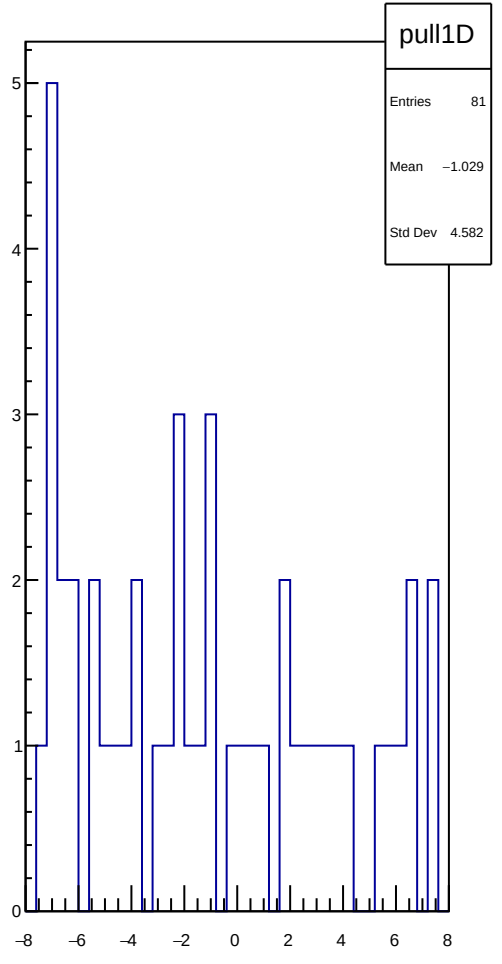

yield_bcm0l02_mean vs run
χ² / ndf 9.486e+07 / 80
p0 171.5 ± 0.00139
180
175
170
165
160
155
150
145
pull
Entries 81
Mean 118.1
Std Dev 83.73
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

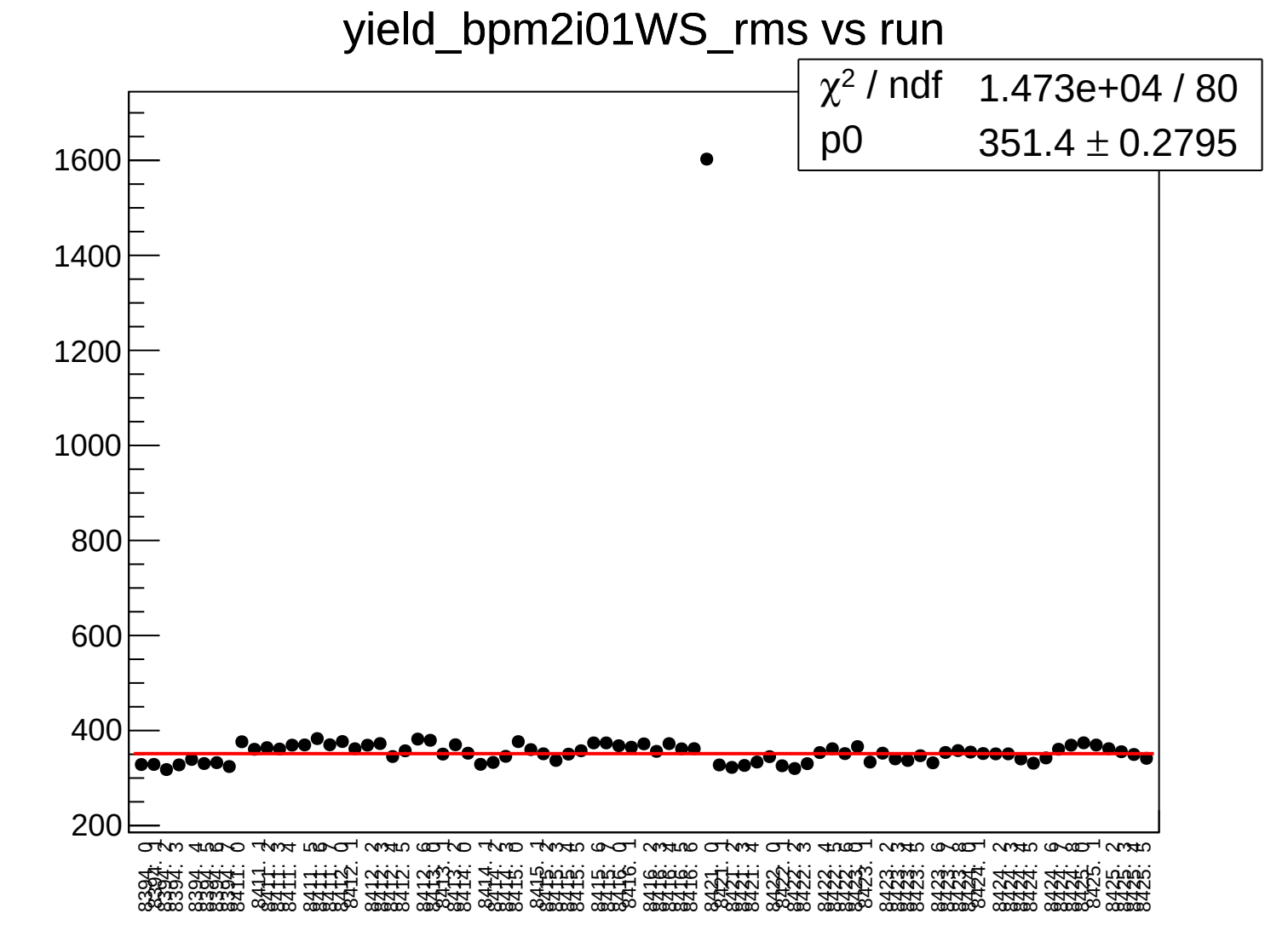

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

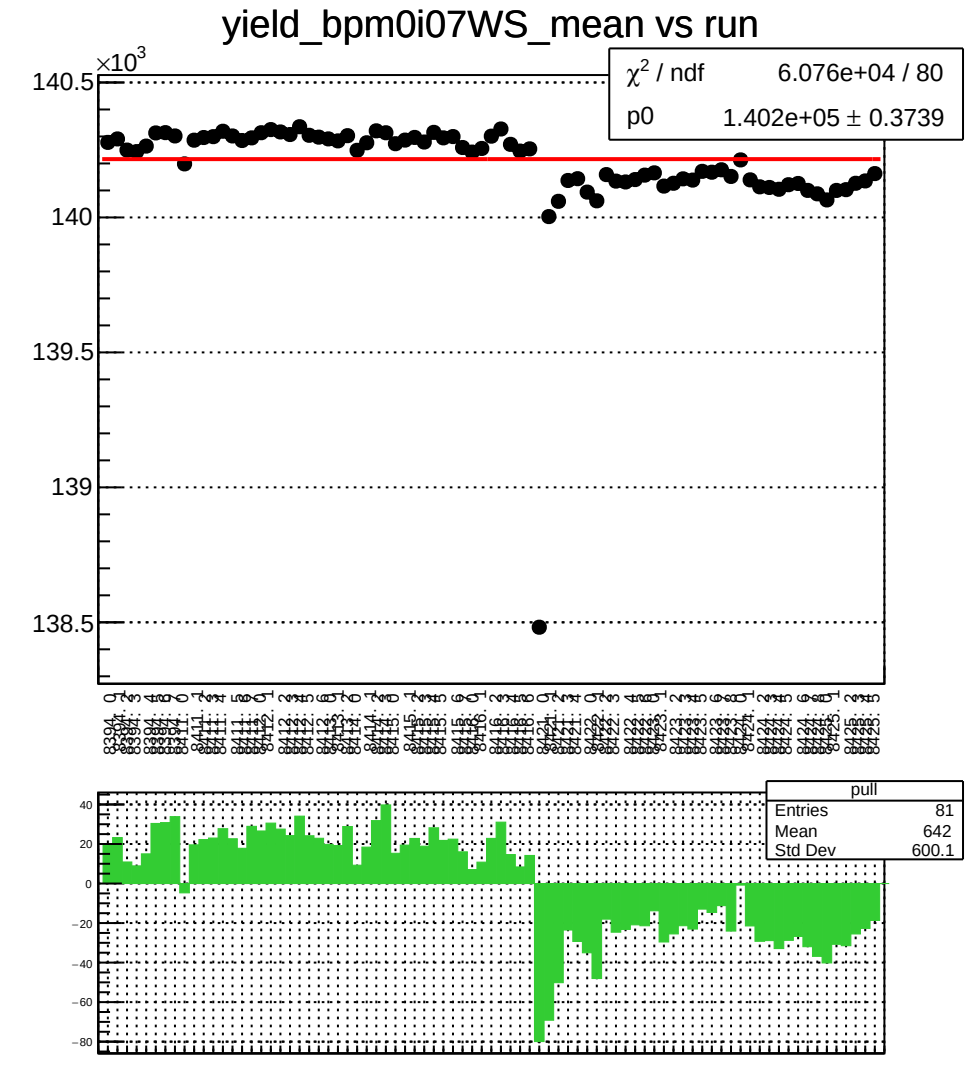
yield_bcm0l02_rms vs run

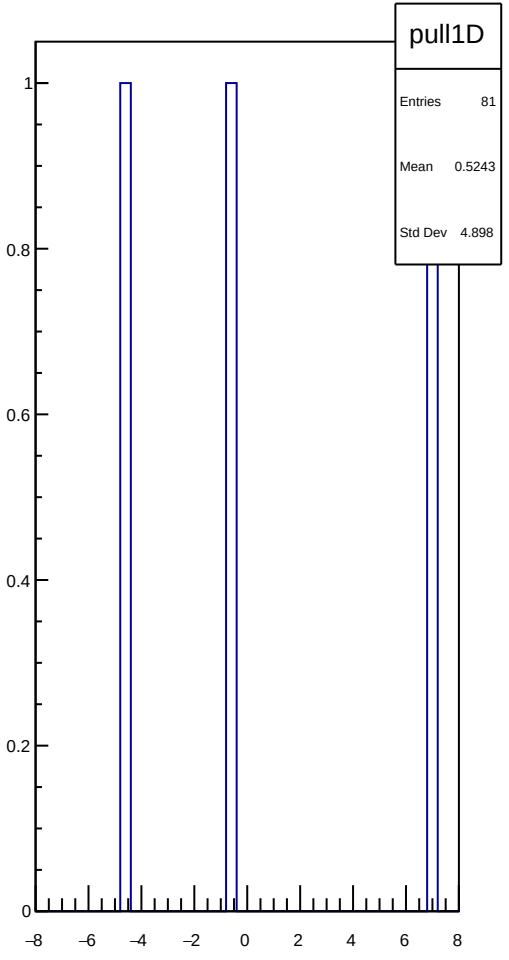


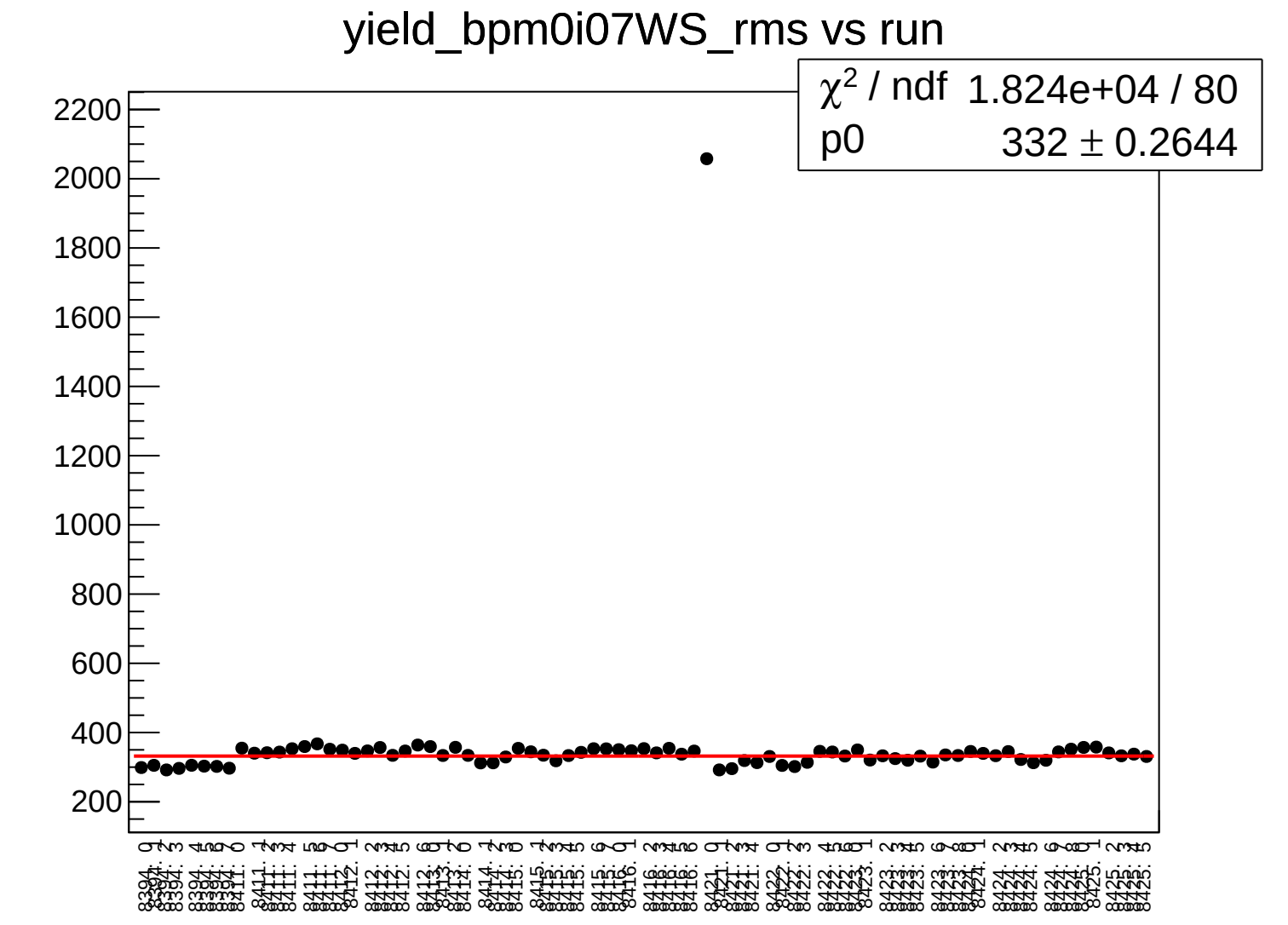

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.137e+04 / 80
p0 1.722e+05 ± 0.3953
172.4
172.2
172
171.8
171.6
171.4
171.2
171
pull
Entries 81
Mean −8.799
Std Dev 47.54
20
0
−20
−40
−60

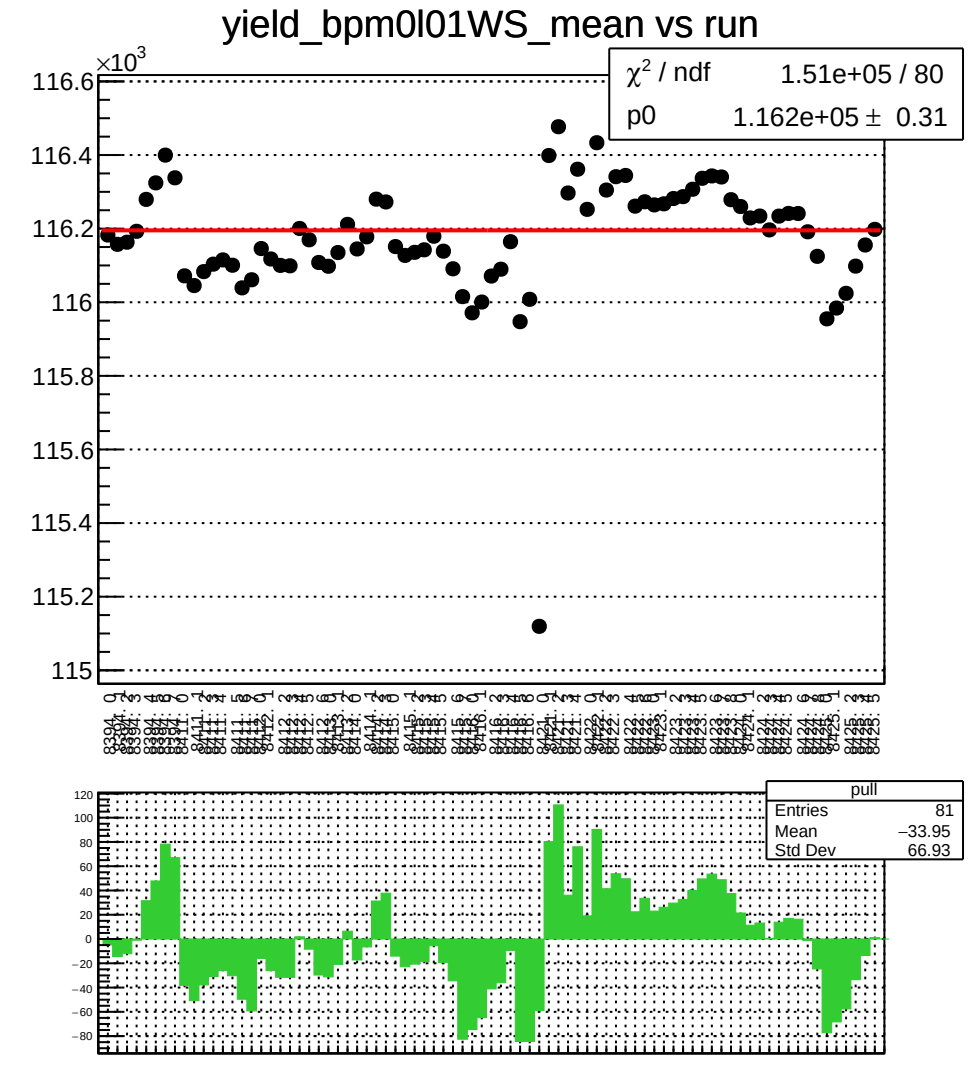

pull1D
Entries 81
Mean −1.029
Std Dev 4.582
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

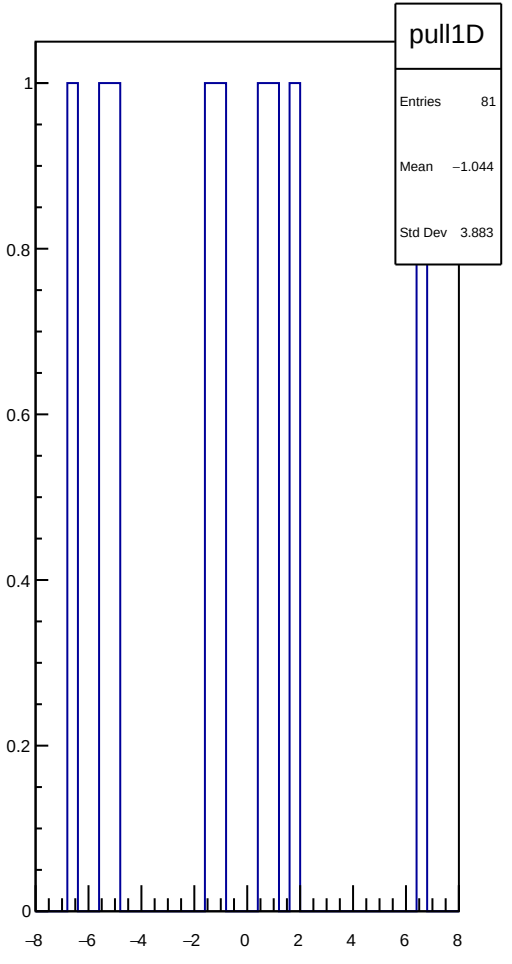

yield_bpm2i01WS_rms vs run
χ² / ndf 1.473e+04 / 80
p0 351.4 ± 0.2795
1600
1400
1200
1000
800
600
400
200

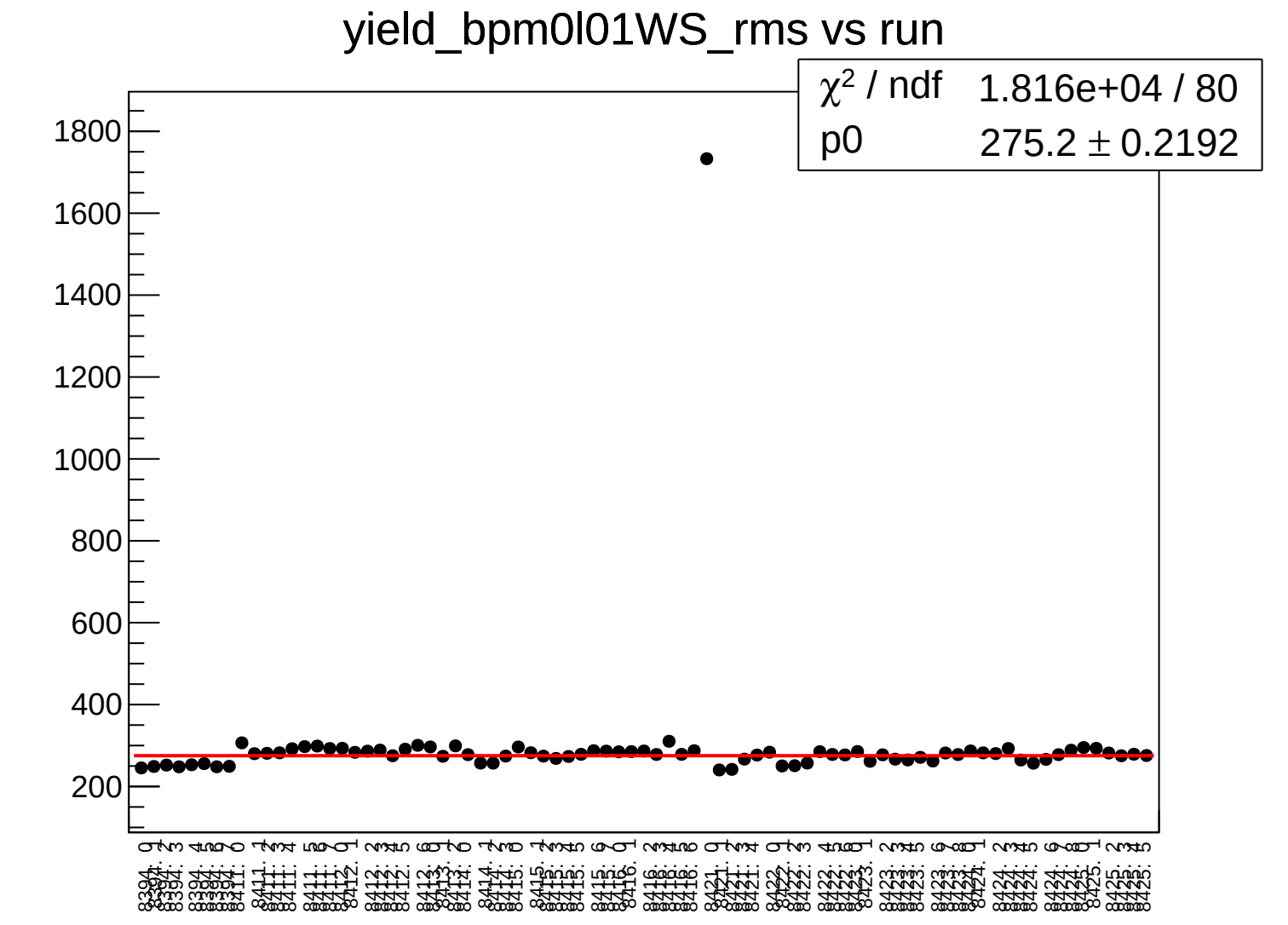

yield_bpm0i07WS_mean vs run
×10^3
140.5
140
139.5
139
138.5
χ² / ndf 6.076e+04 / 80
p0 1.402e+05 ± 0.3739
pull
Entries 81
Mean 642
Std Dev 600.1
40
20
0
−20
−40
−60
−80

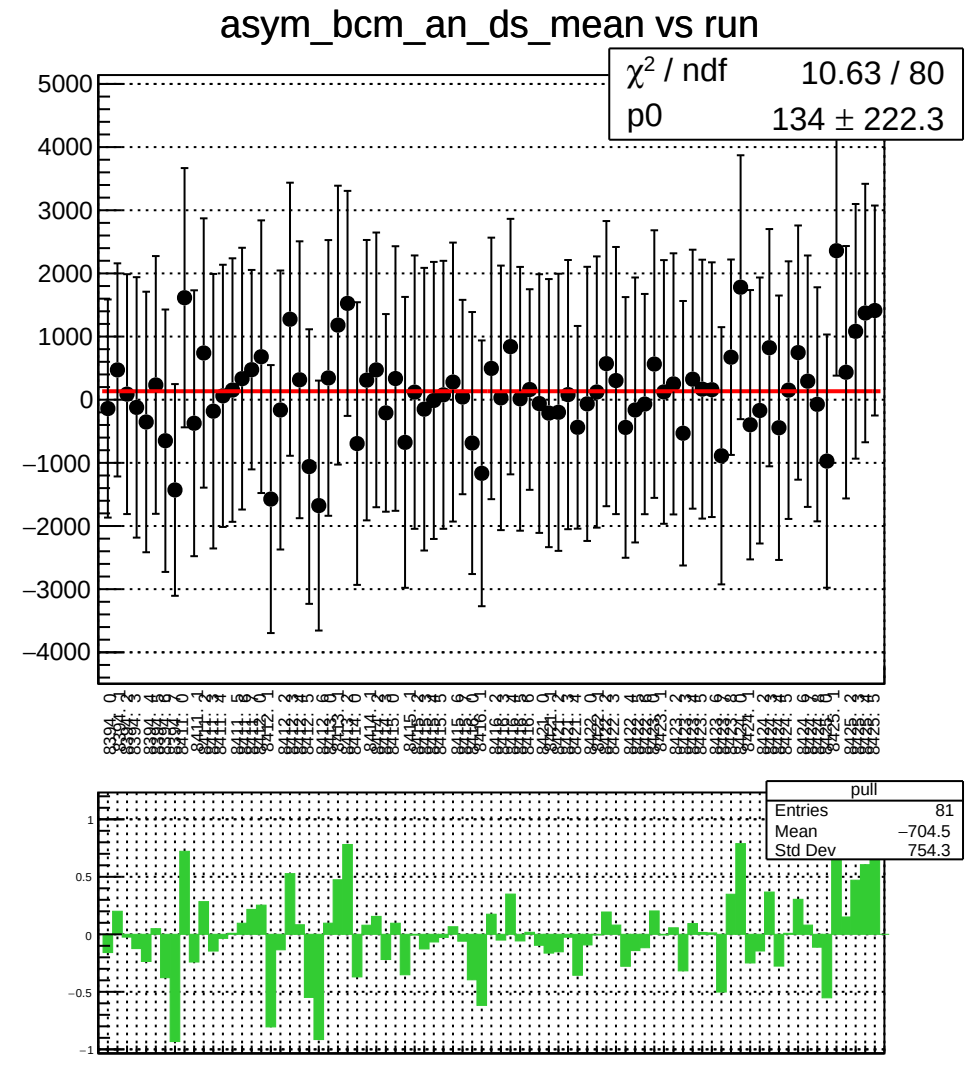

pull1D
Entries 81
Mean 0.5243
Std Dev 4.898
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

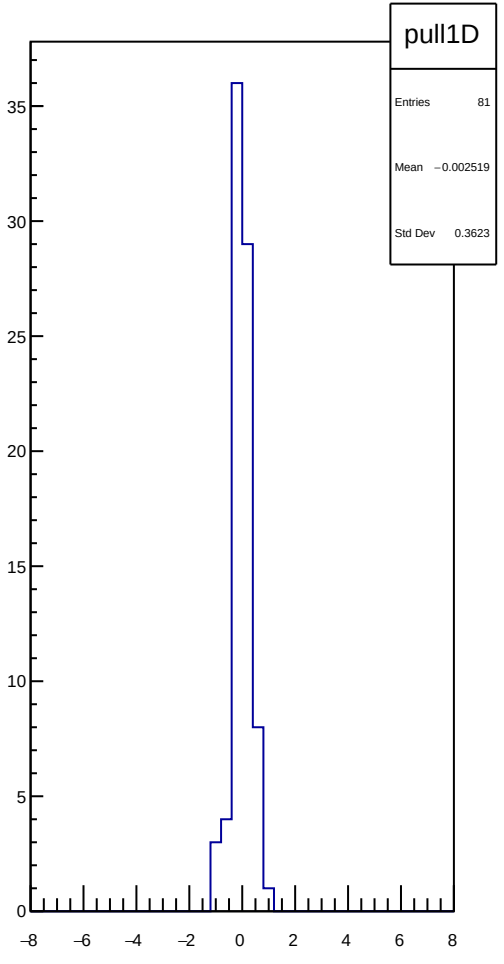

yield_bpm0i07WS_rms vs run
χ² / ndf 1.824e+04 / 80
p0 332 ± 0.2644
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

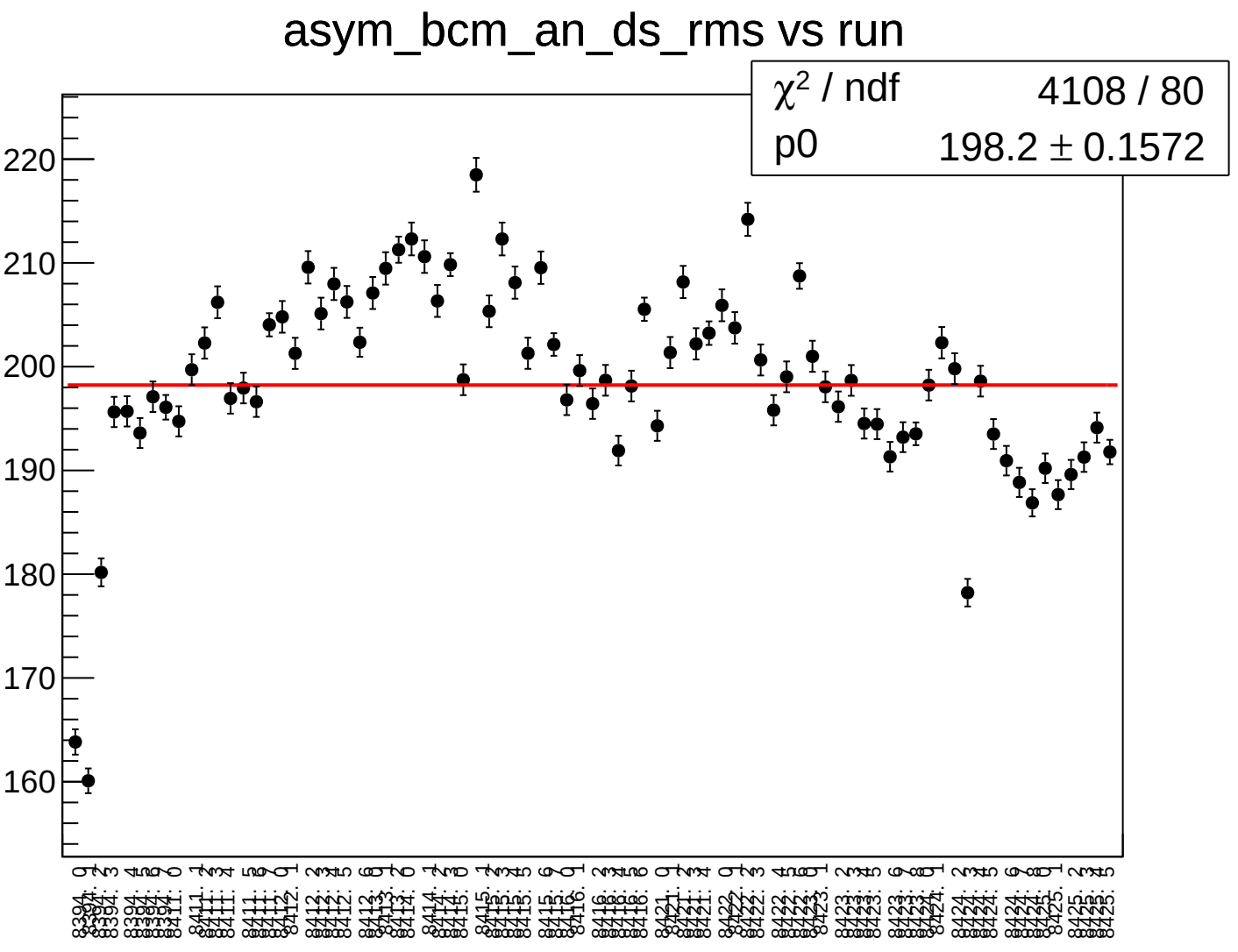

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.51e+05 / 80
p0 1.162e+05 ± 0.31
116.6
116.4
116.2
116
115.8
115.6
115.4
115.2
115
pull
Entries 81
Mean −33.95
Std Dev 66.93
120
100
80
60
40
20
0
−20
−40
−60
−80

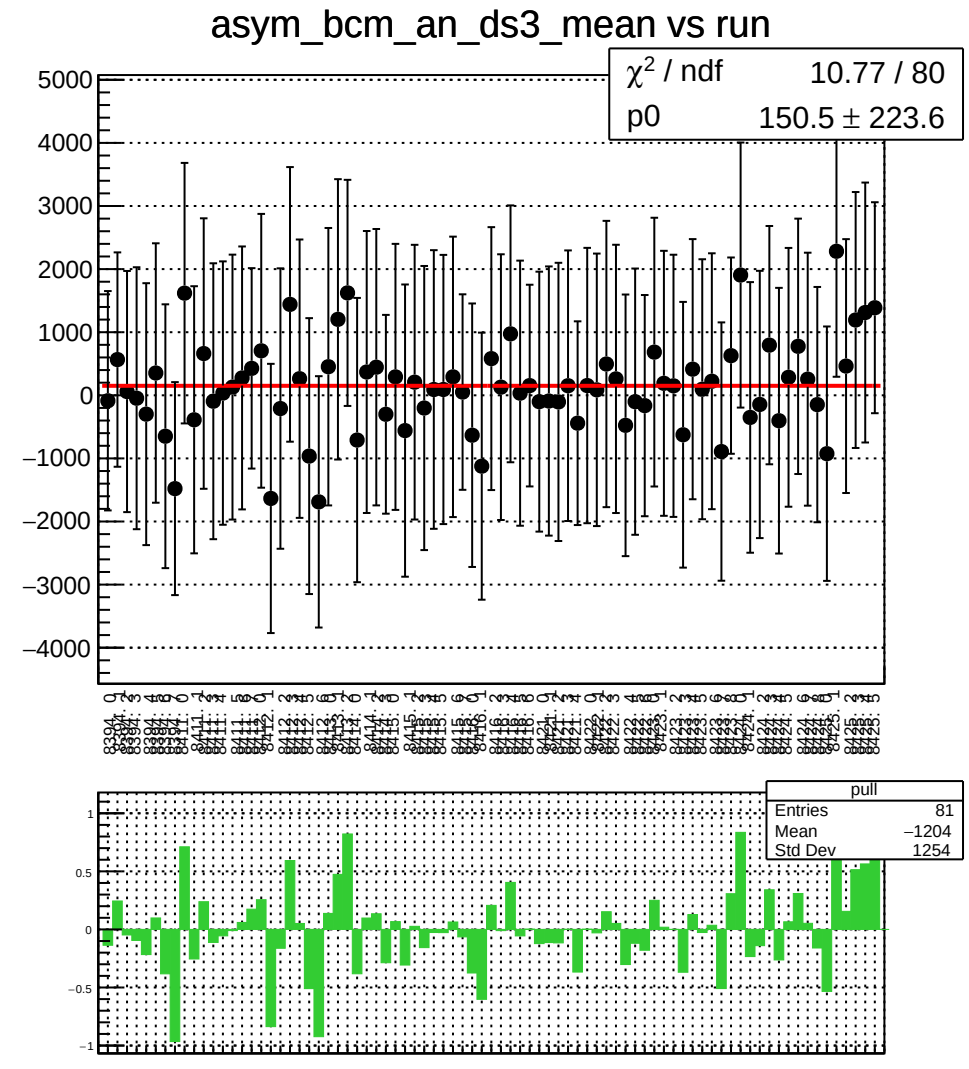

pull1D
Entries 81
Mean −1.044
Std Dev 3.883
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

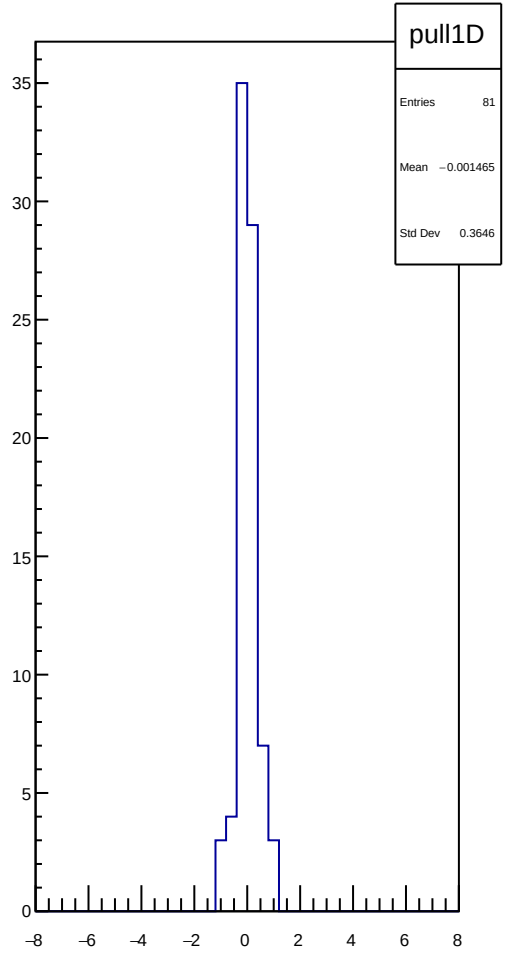

yield_bpm0l01WS_rms vs run
χ² / ndf 1.816e+04 / 80
p0 275.2 ± 0.2192
1800
1600
1400
1200
1000
800
600
400
200

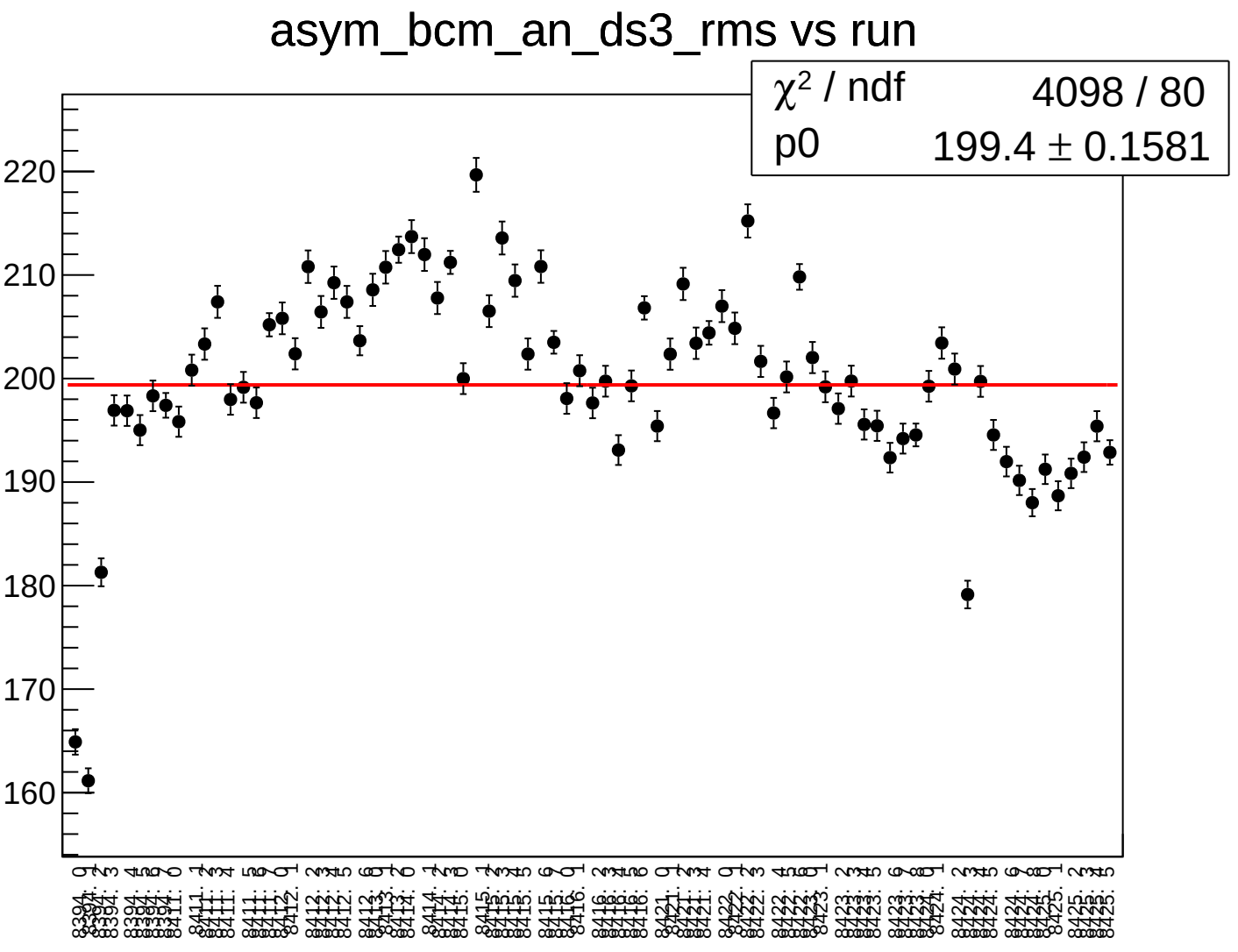

asym_bcm_an_ds_mean vs run
χ² / ndf 10.63 / 80
p0 134 ± 222.3
pull
Entries 81
Mean −704.5
Std Dev 754.3

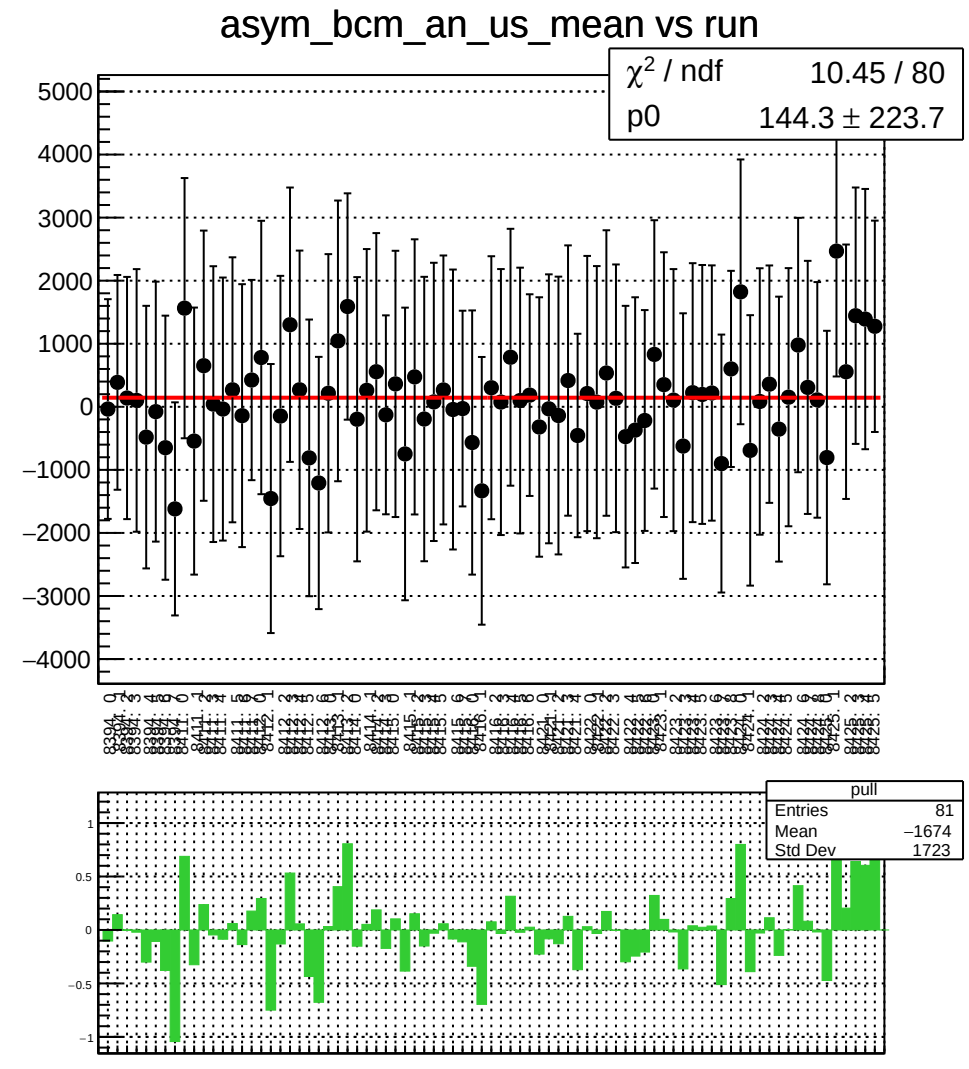

pull1D
Entries 81
Mean −0.002519
Std Dev 0.3623

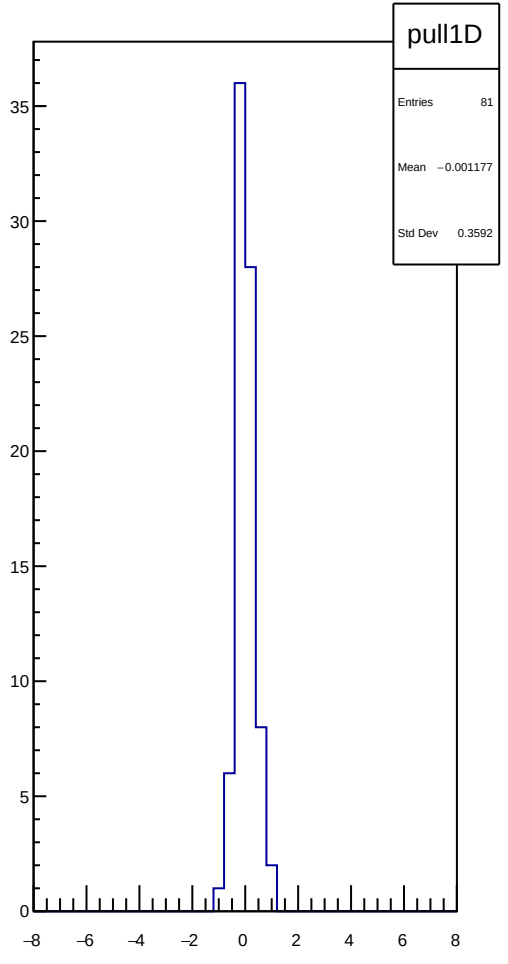

asym_bcm_an_ds_rms vs run
χ² / ndf 4108 / 80
p0 198.2 ± 0.1572
220
210
200
190
180
170
160

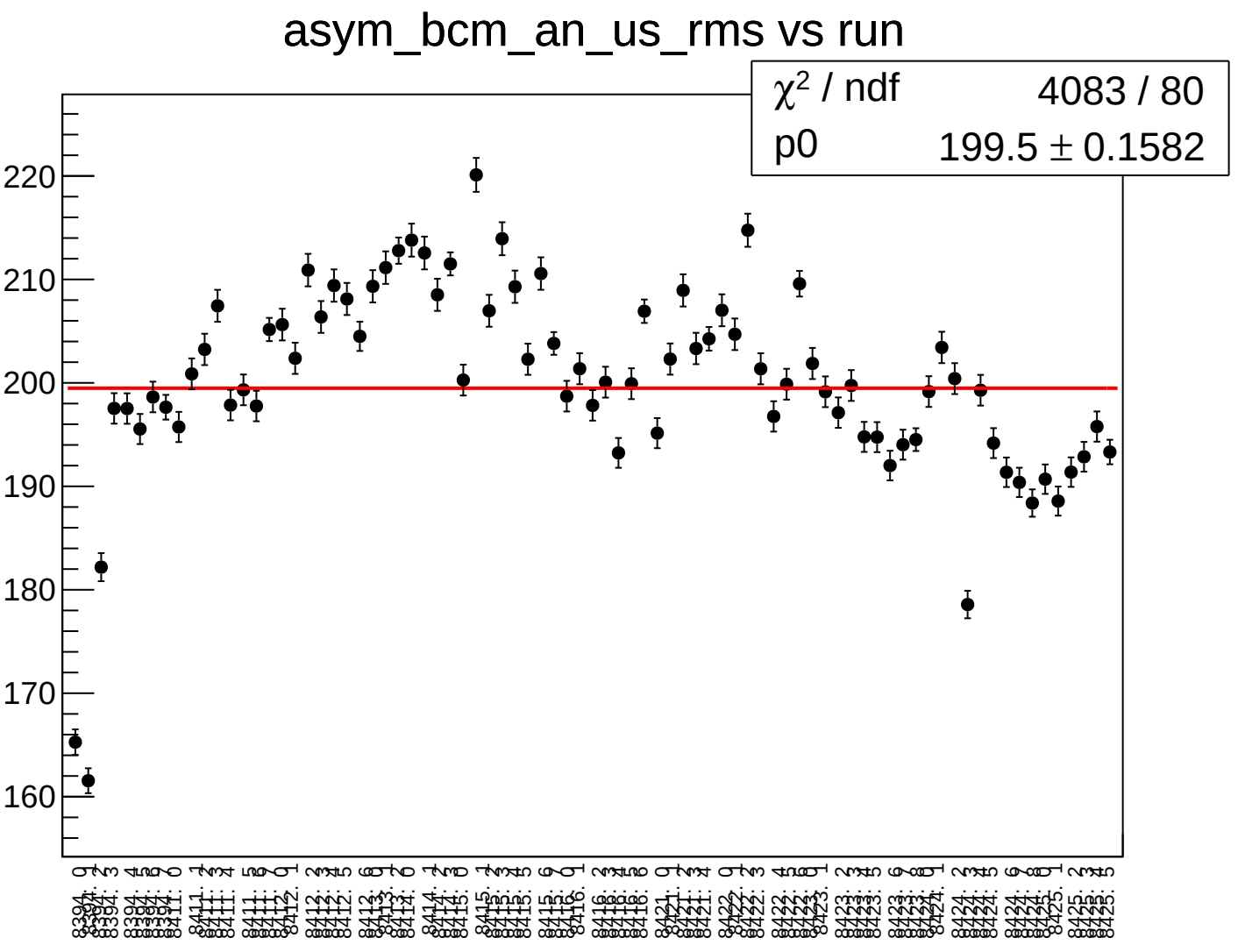

asym_bcm_an_ds3_mean vs run
χ² / ndf 10.77 / 80
p0 150.5 ± 223.6
pull
Entries 81
Mean −1204
Std Dev 1254

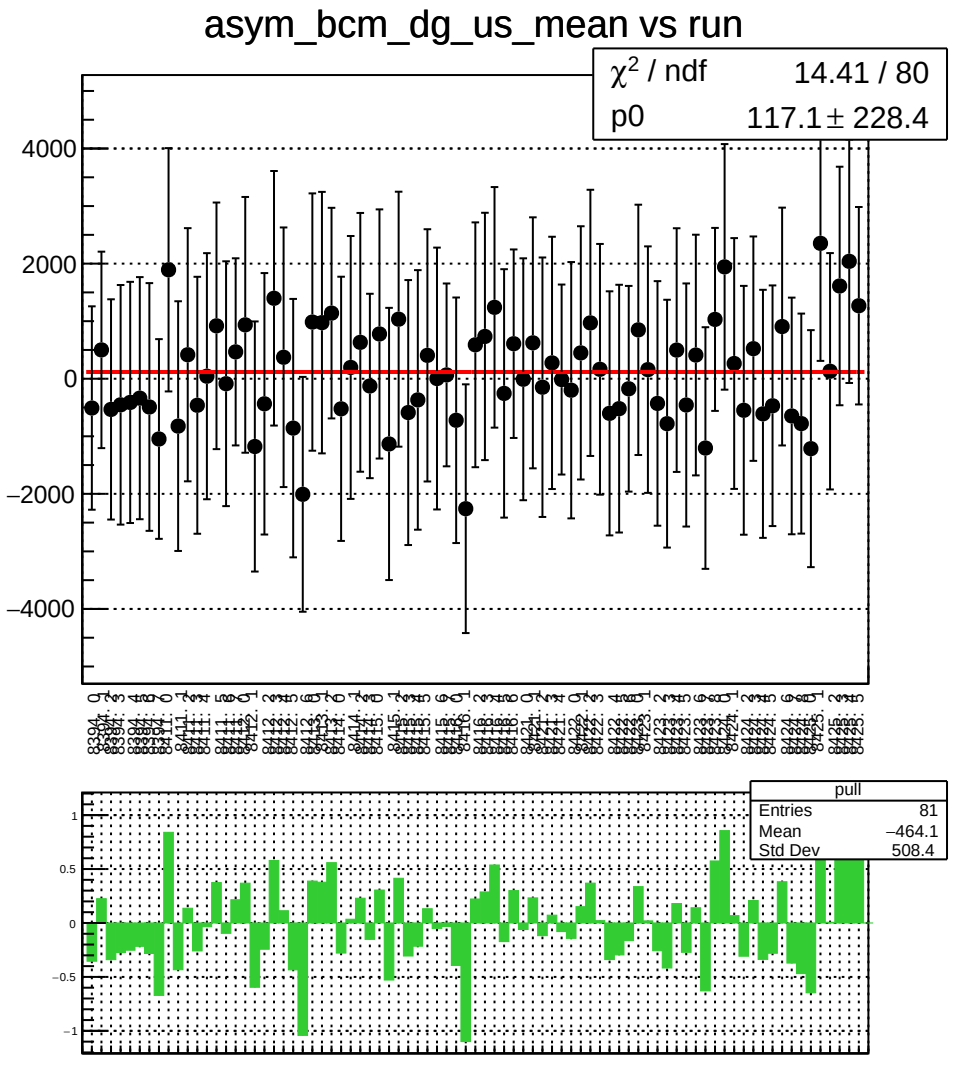

pull1D
Entries 81
Mean −0.001465
Std Dev 0.3646

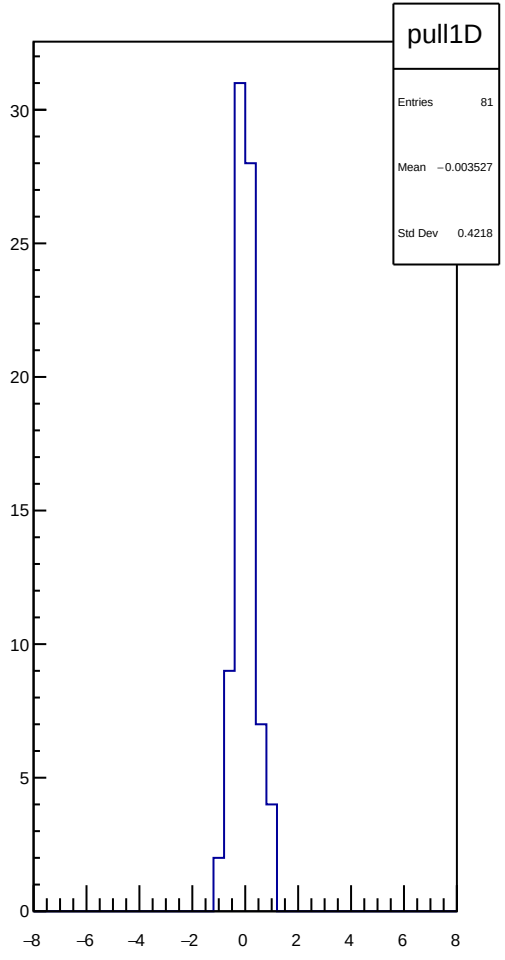

asym_bcm_an_ds3_rms vs run
χ² / ndf 4098 / 80
p0 199.4 ± 0.1581
220
210
200
190
180
170
160

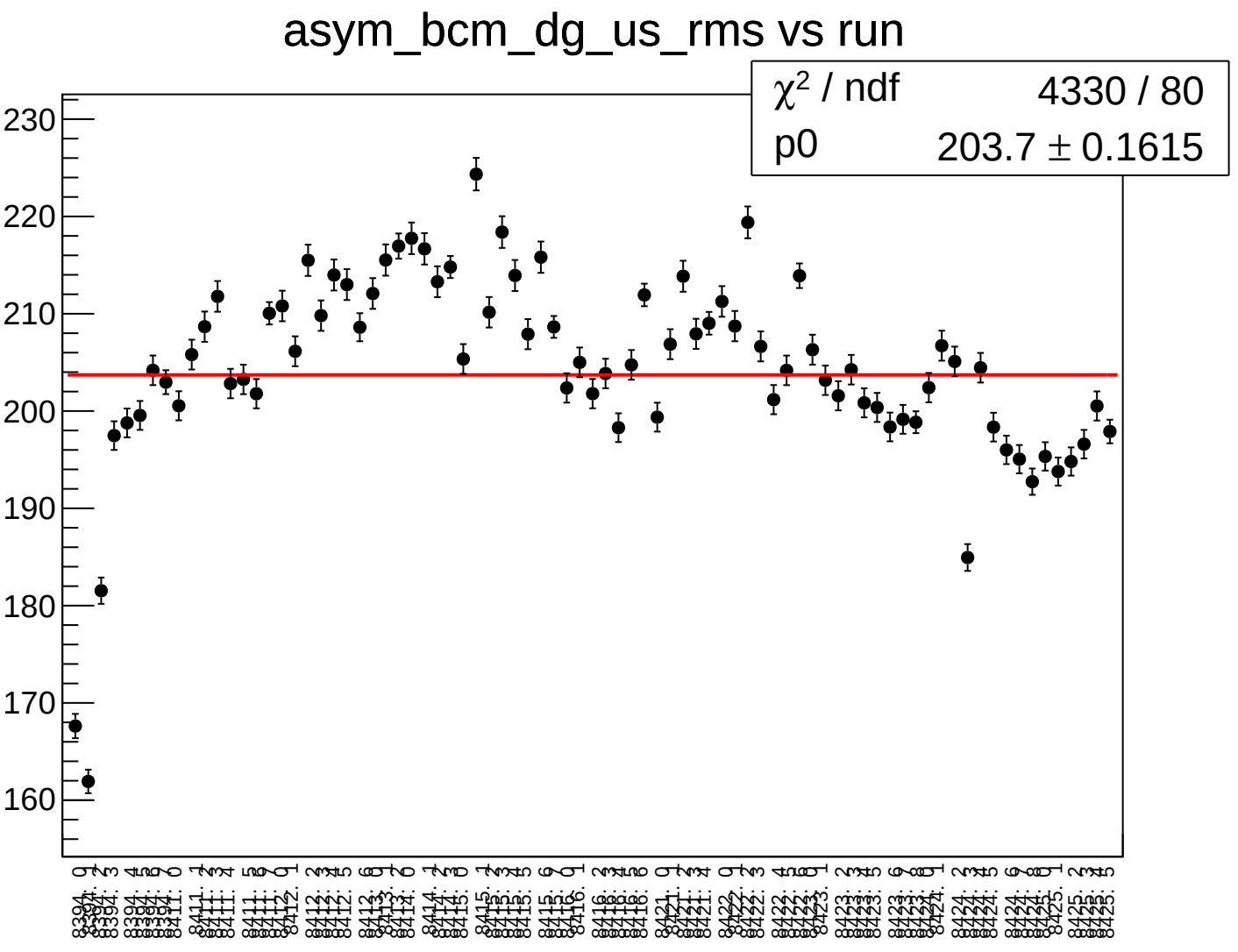

asym_bcm_an_us_mean vs run
χ² / ndf 10.45 / 80
p0 144.3 ± 223.7
pull
Entries 81
Mean −1674
Std Dev 1723

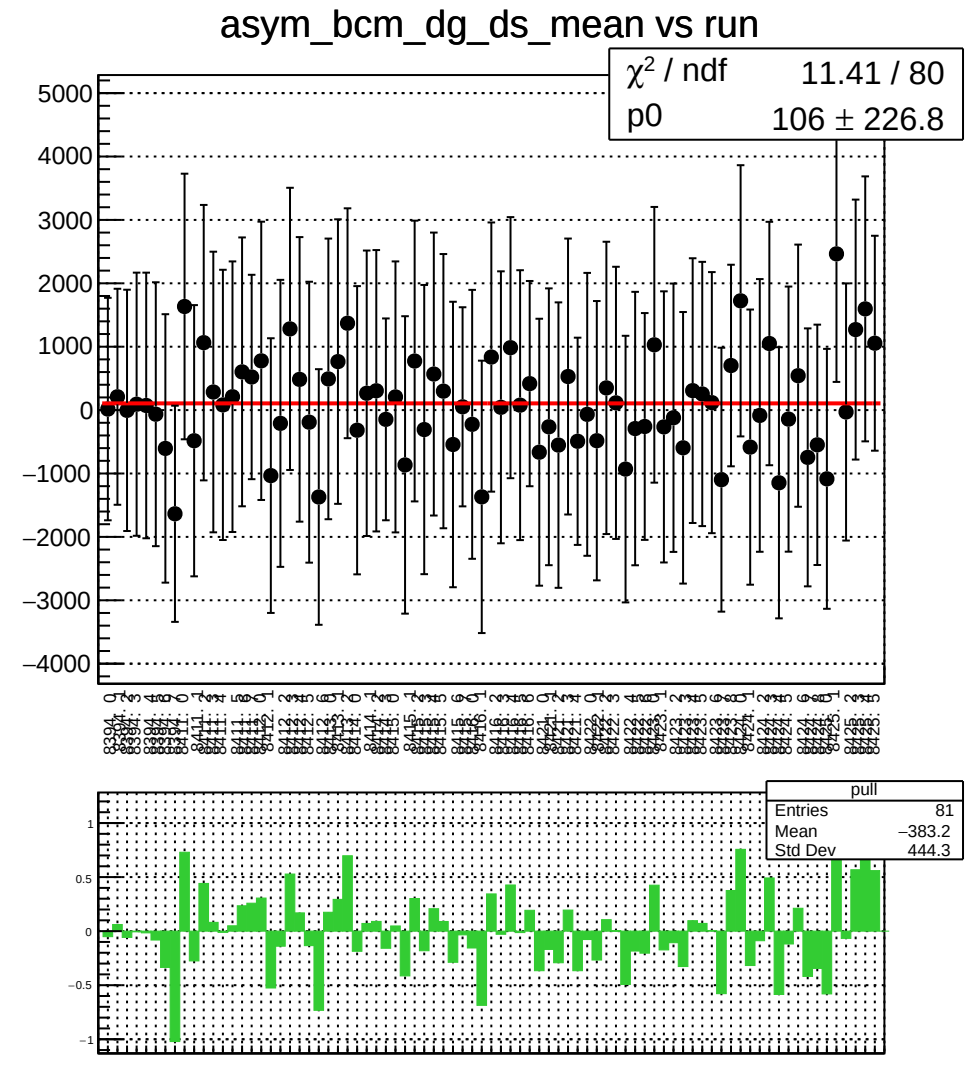

pull1D
Entries 81
Mean −0.001177
Std Dev 0.3592

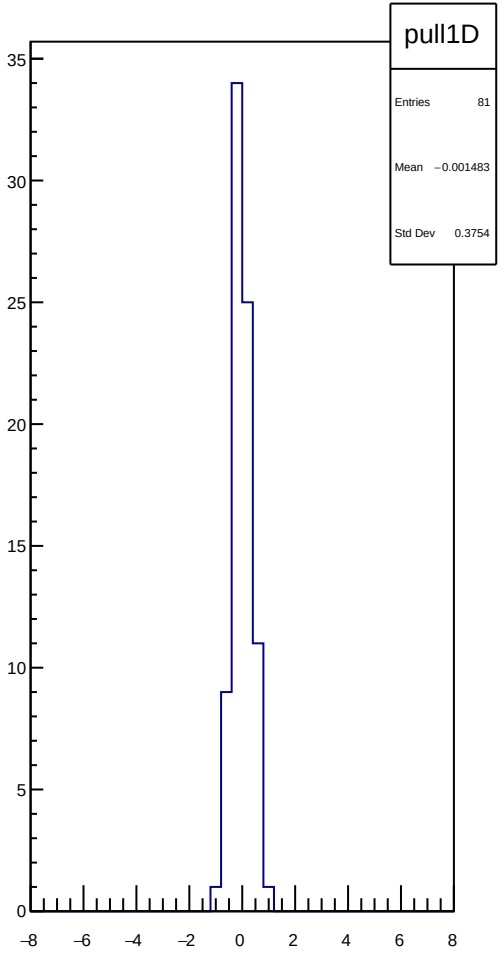

asym_bcm_an_us_rms vs run
χ² / ndf 4083 / 80
p0 199.5 ± 0.1582
220
210
200
190
180
170
160

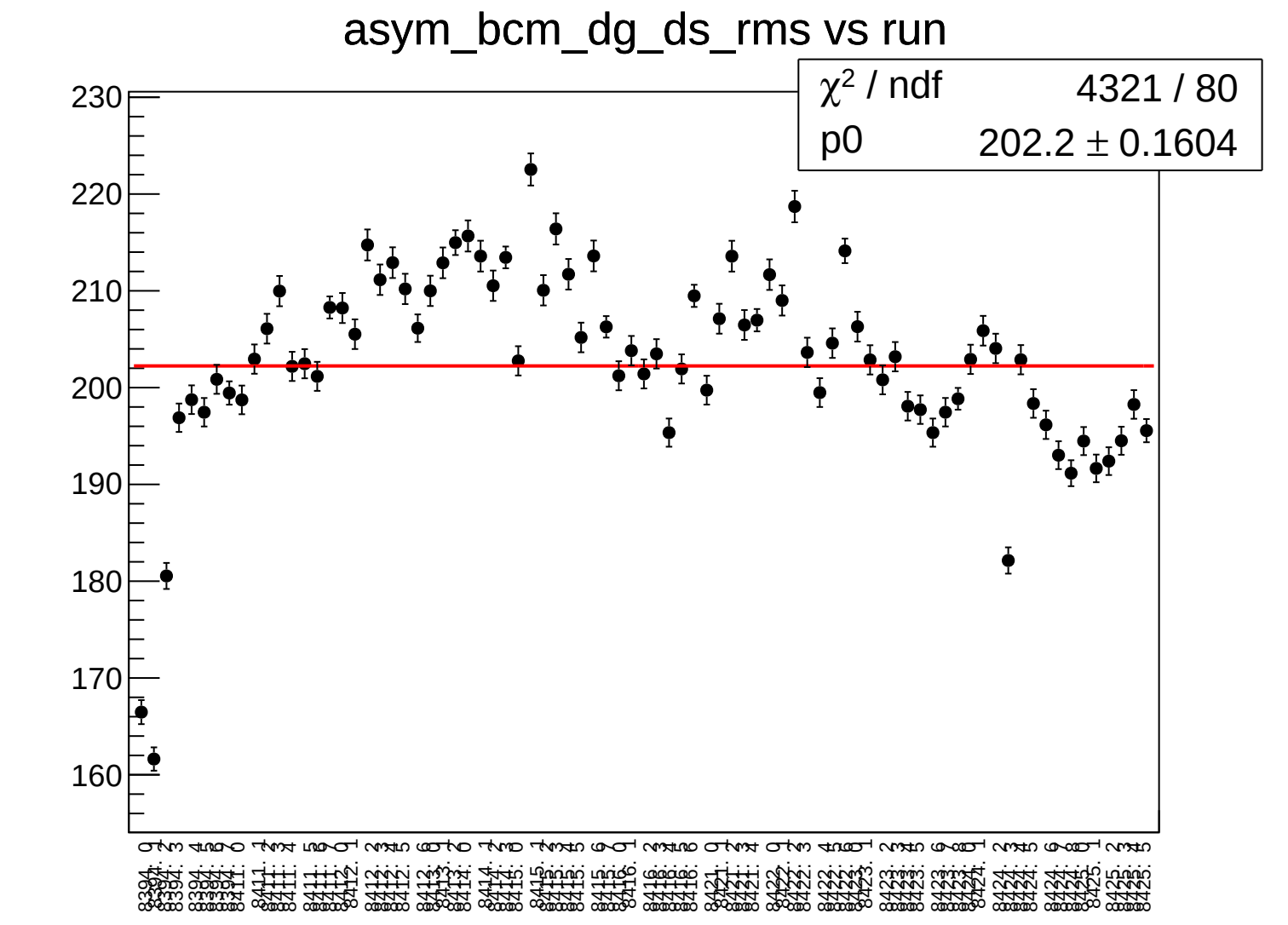

asym_bcm_dg_us_mean vs run
χ² / ndf 14.41 / 80
p0 117.1 ± 228.4
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −464.1
Std Dev 508.4
1
0.5
0
−0.5
−1

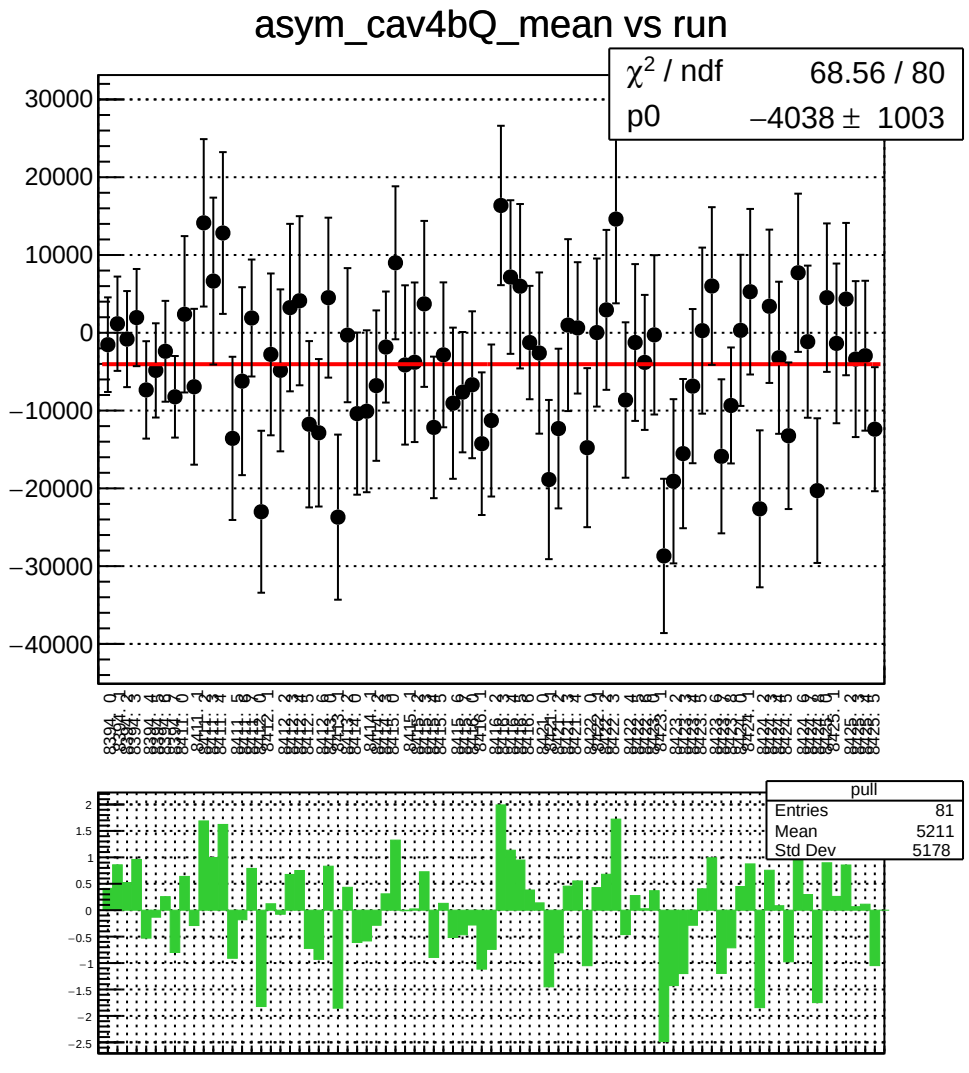

pull1D
Entries 81
Mean −0.003527
Std Dev 0.4218
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

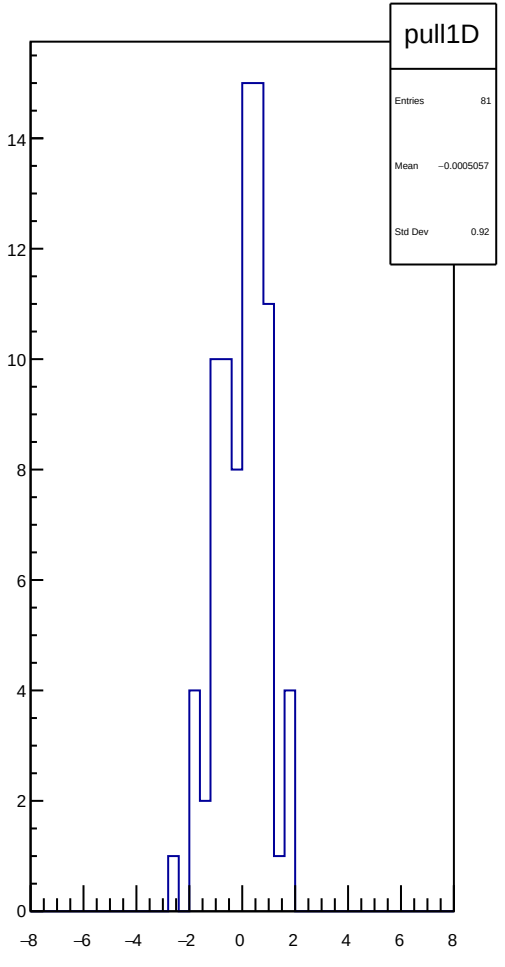

asym_bcm_dg_us_rms vs run
χ² / ndf 4330 / 80
p0 203.7 ± 0.1615
230
220
210
200
190
180
170
160

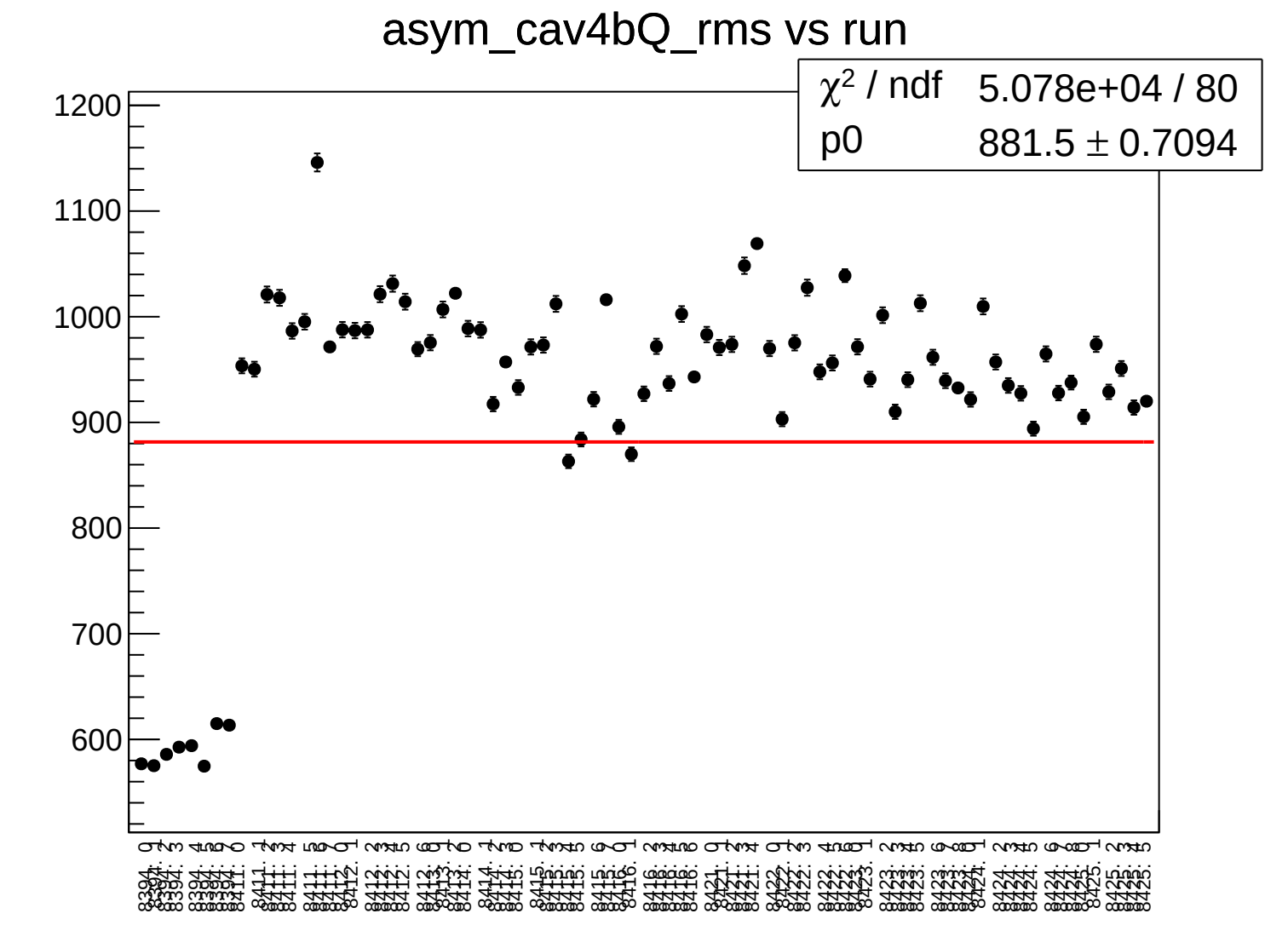

asym_bcm_dg_ds_mean vs run
χ² / ndf 11.41 / 80
p0 106 ± 226.8
pull
Entries 81
Mean −383.2
Std Dev 444.3

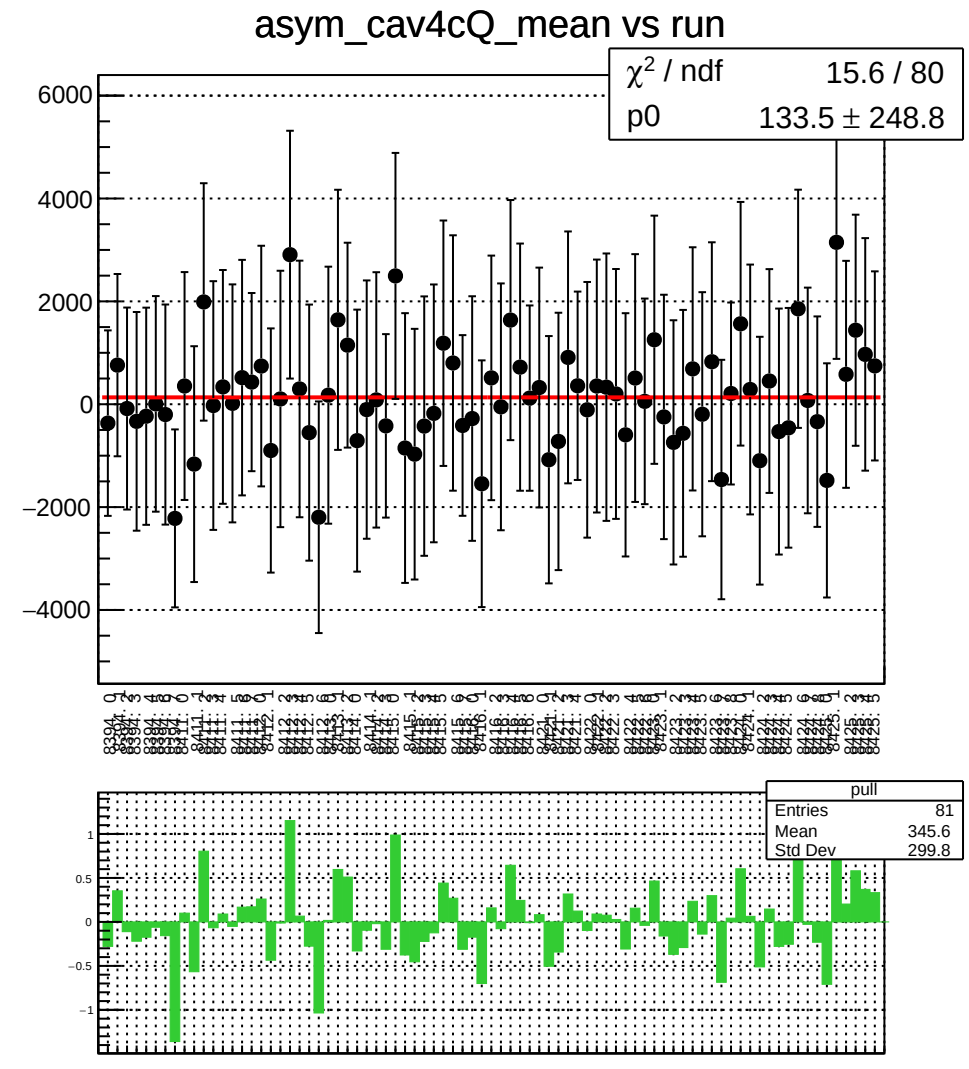

pull1D
Entries 81
Mean −0.001483
Std Dev 0.3754

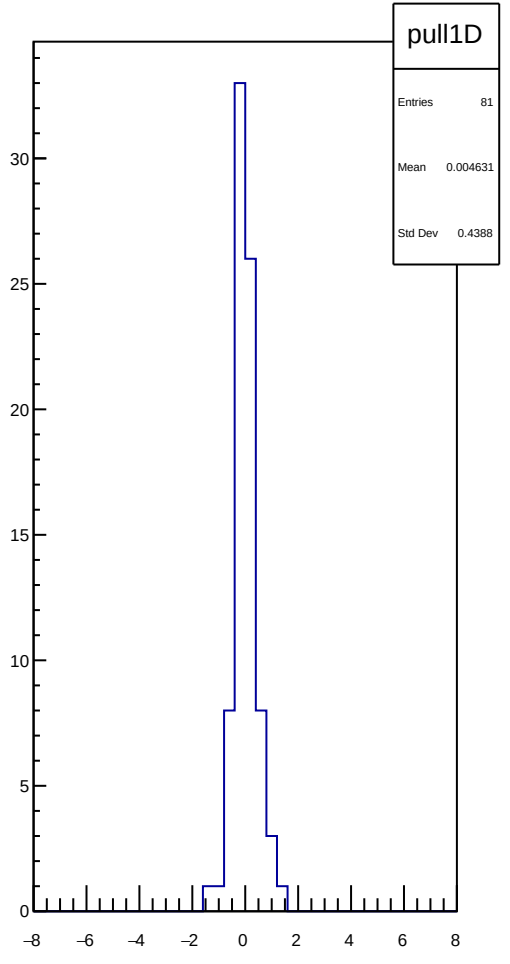

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 4321 / 80
p0 202.2 ± 0.1604
230
220
210
200
190
180
170
160

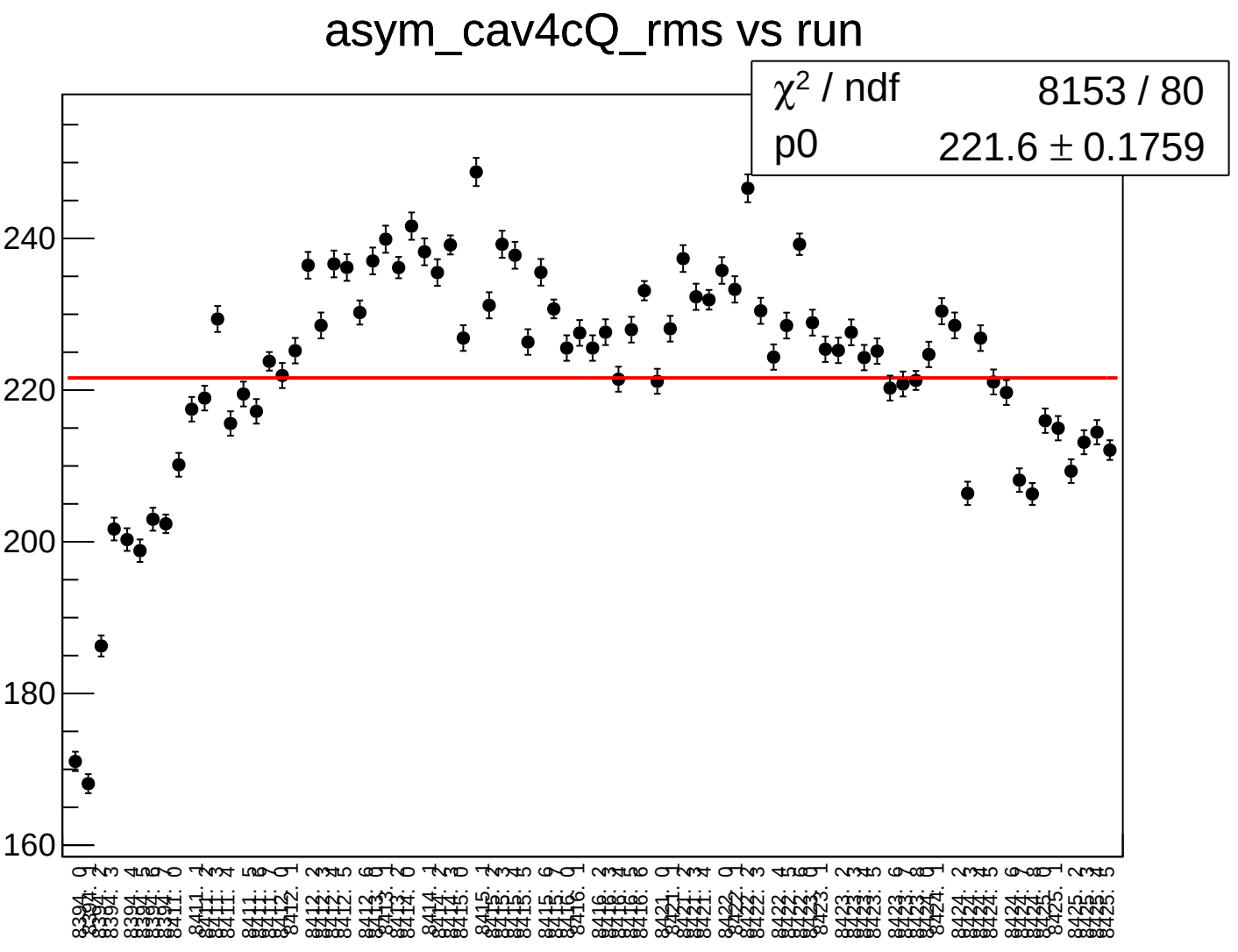

asym_cav4bQ_mean vs run
χ² / ndf 68.56 / 80
p0 −4038 ± 1003
pull
Entries 81
Mean 5211
Std Dev 5178

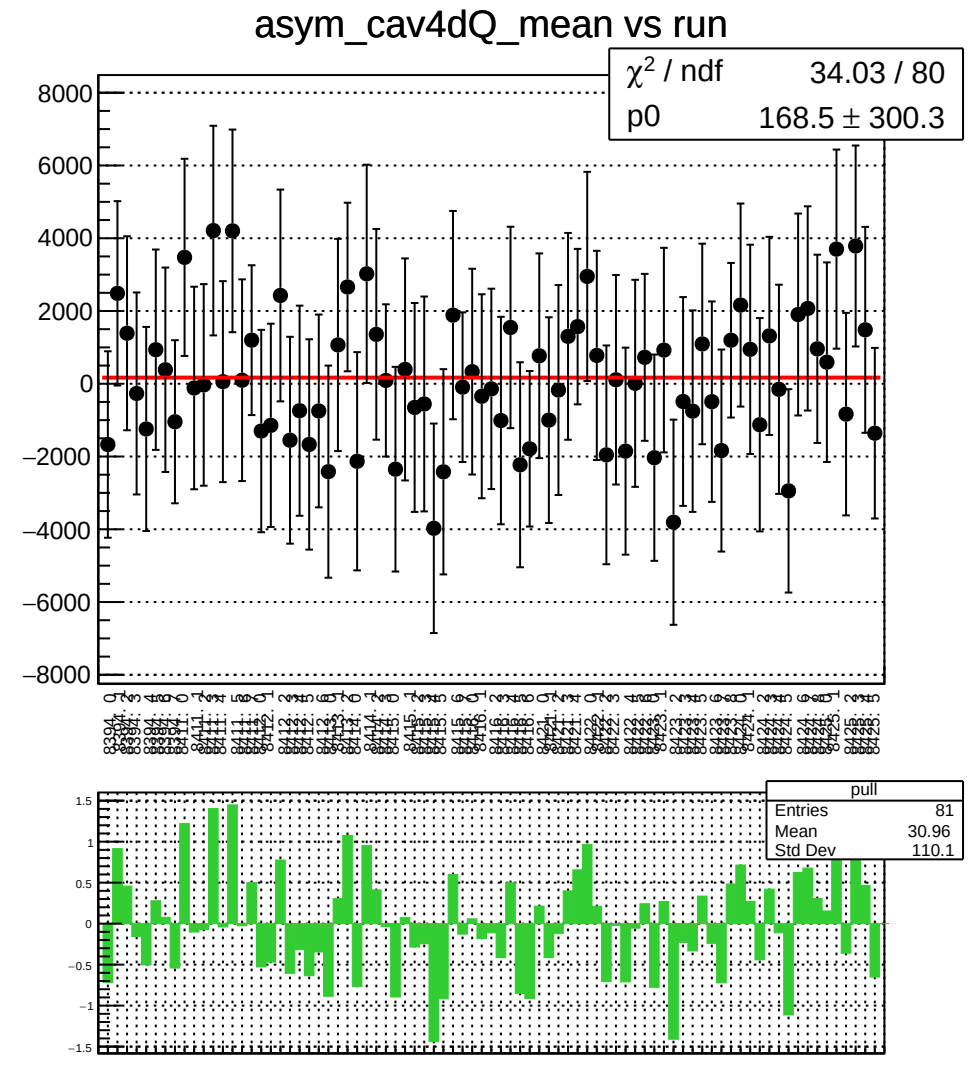

pull1D
Entries 81
Mean −0.0005057
Std Dev 0.92

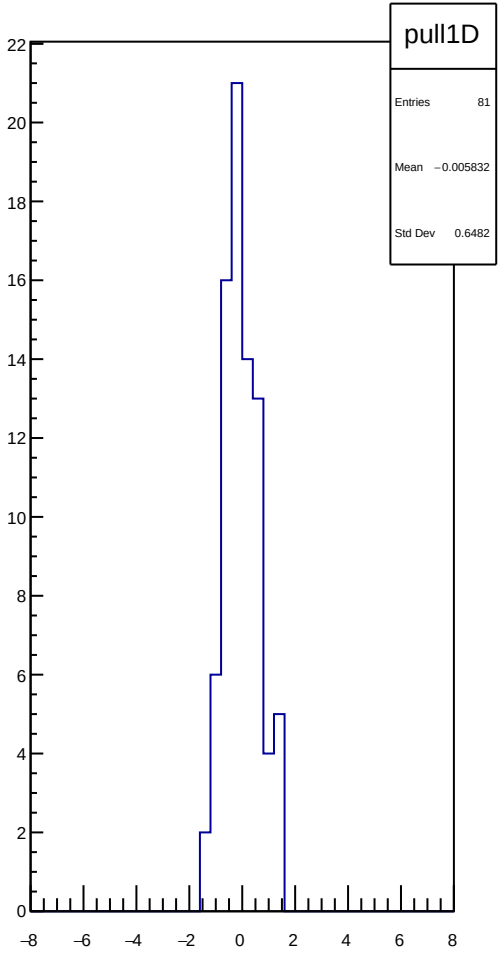

asym_cav4bQ_rms vs run
χ² / ndf 5.078e+04 / 80
p0 881.5 ± 0.7094
1200
1100
1000
900
800
700
600

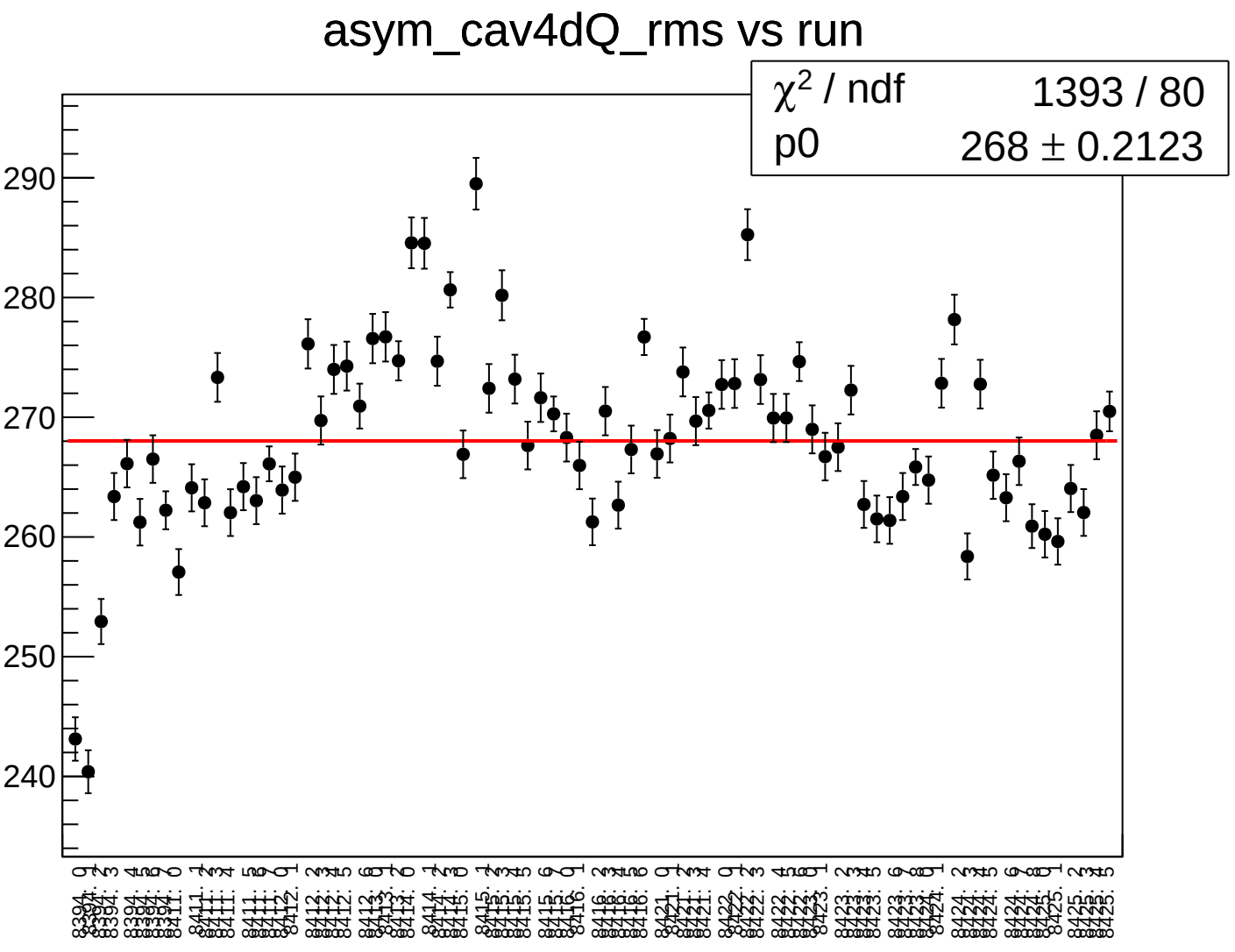

asym_cav4cQ_mean vs run
χ² / ndf 15.6 / 80
p0 133.5 ± 248.8
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 345.6
Std Dev 299.8
1
0.5
0
−0.5
−1

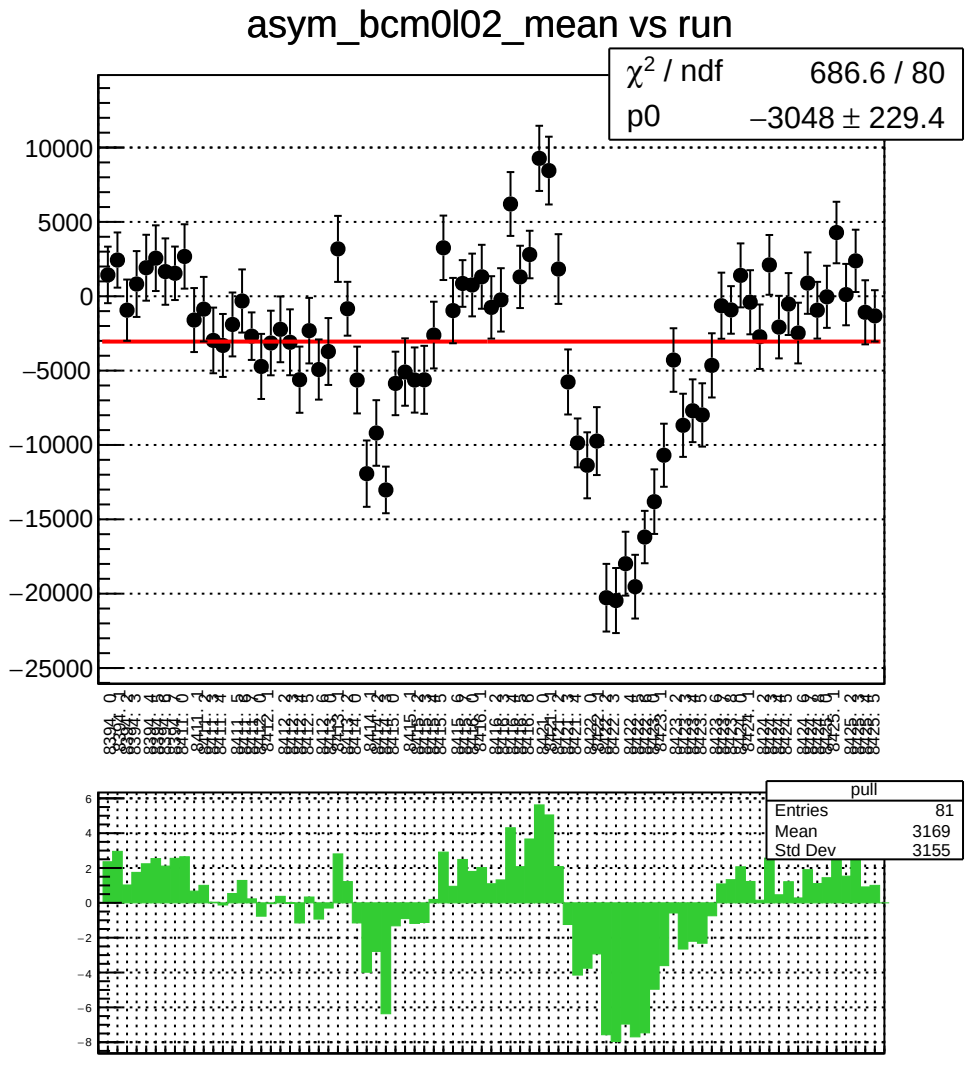

pull1D
Entries 81
Mean 0.004631
Std Dev 0.4388
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

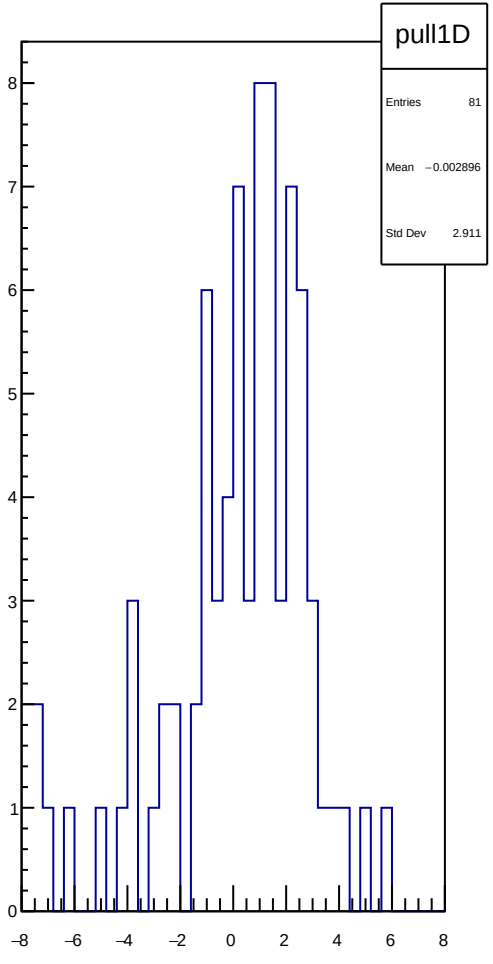

asym_cav4cQ_rms vs run
χ² / ndf 8153 / 80
p0 221.6 ± 0.1759
240
220
200
180
160

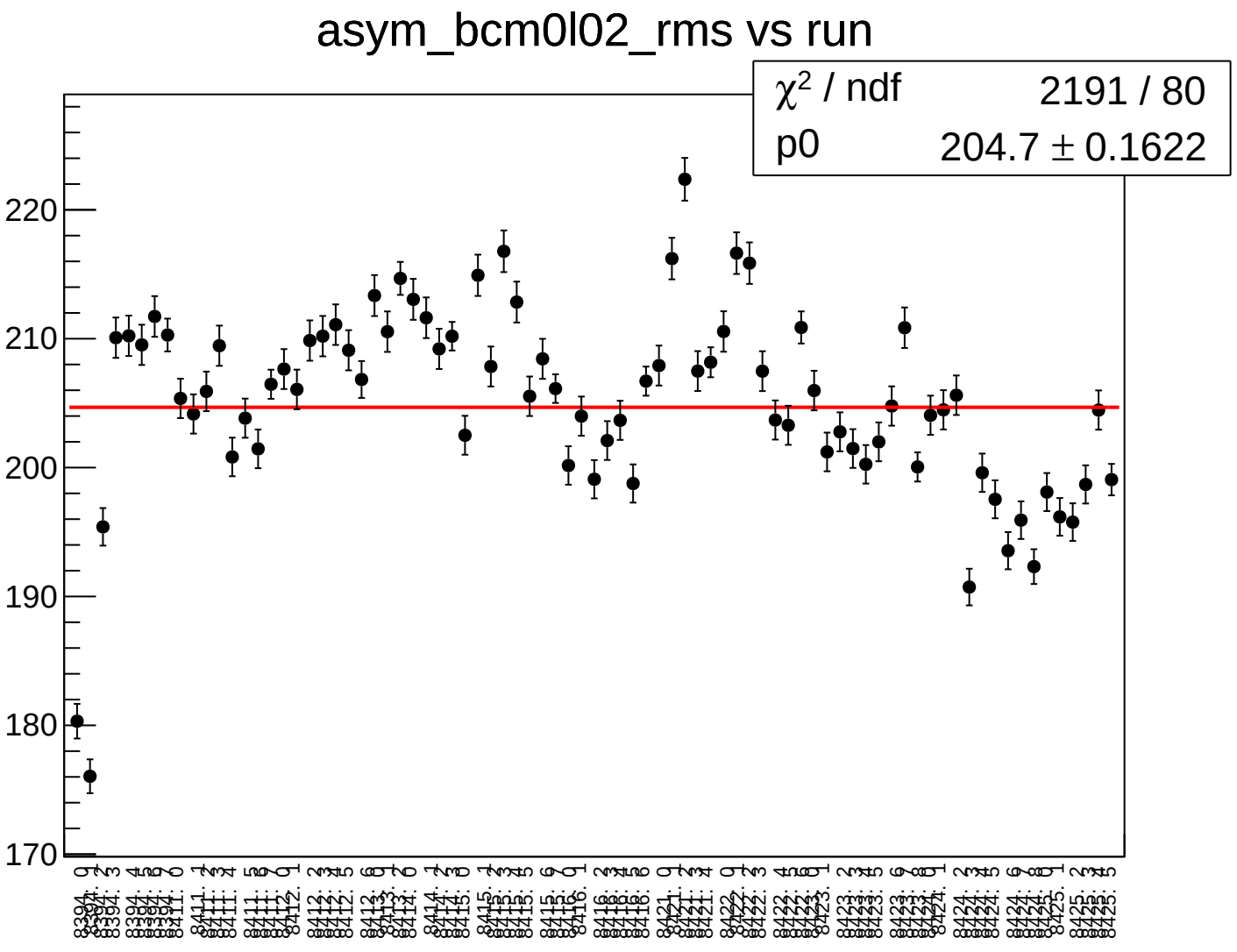

asym_cav4dQ_mean vs run
χ² / ndf 34.03 / 80
p0 168.5 ± 300.3
pull
Entries 81
Mean 30.96
Std Dev 110.1

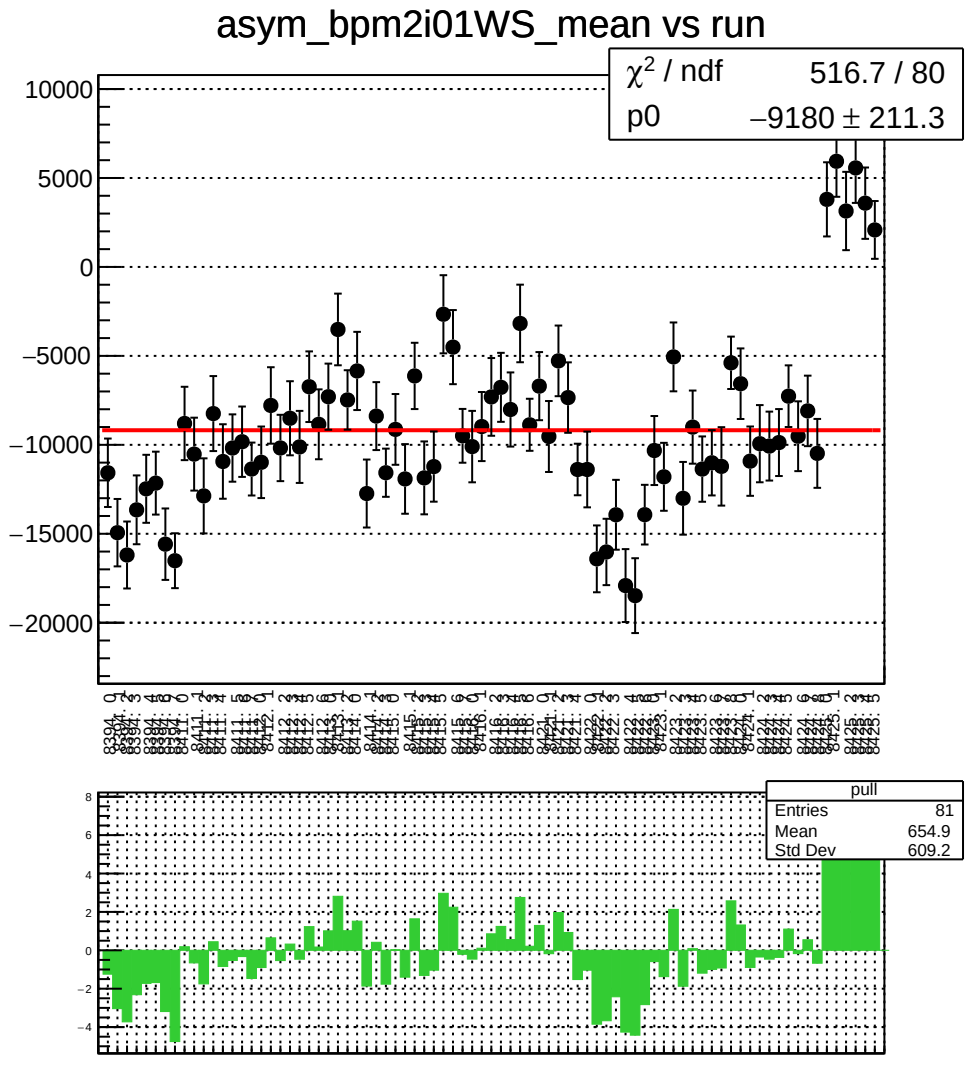

pull1D
Entries 81
Mean −0.005832
Std Dev 0.6482

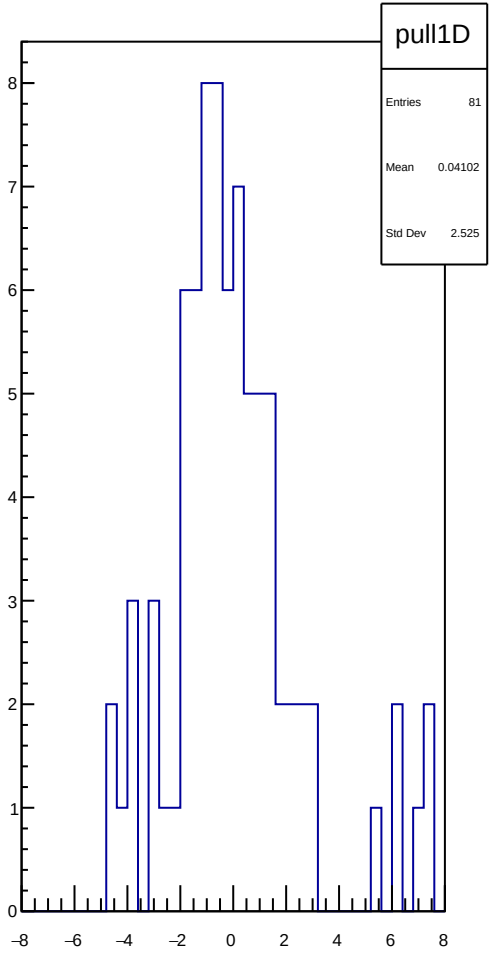

asym_cav4dQ_rms vs run
χ² / ndf 1393 / 80
p0 268 ± 0.2123
290
280
270
260
250
240

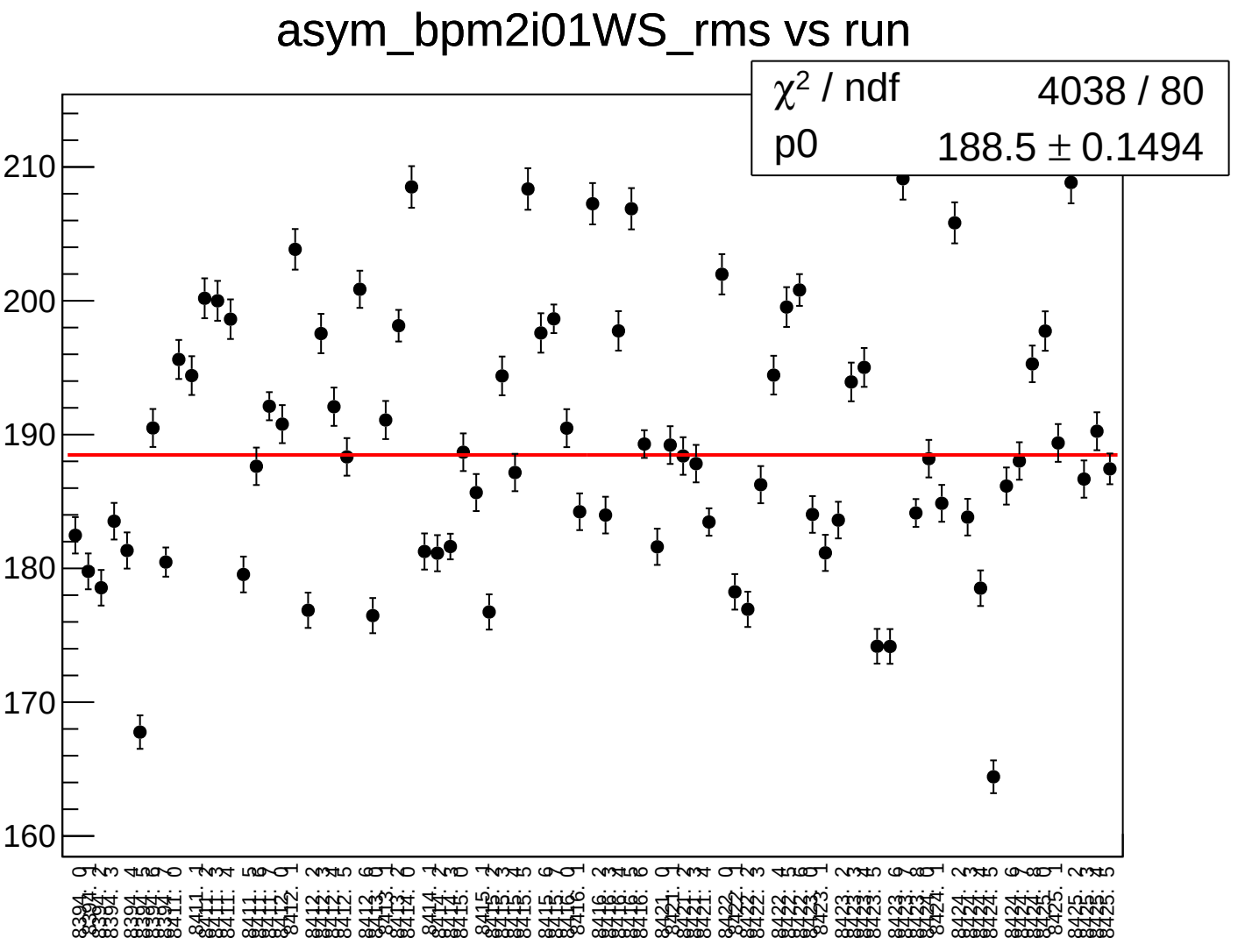

asym_bcm0l02_mean vs run
χ² / ndf 686.6 / 80
p0 −3048 ± 229.4
pull
Entries 81
Mean 3169
Std Dev 3155

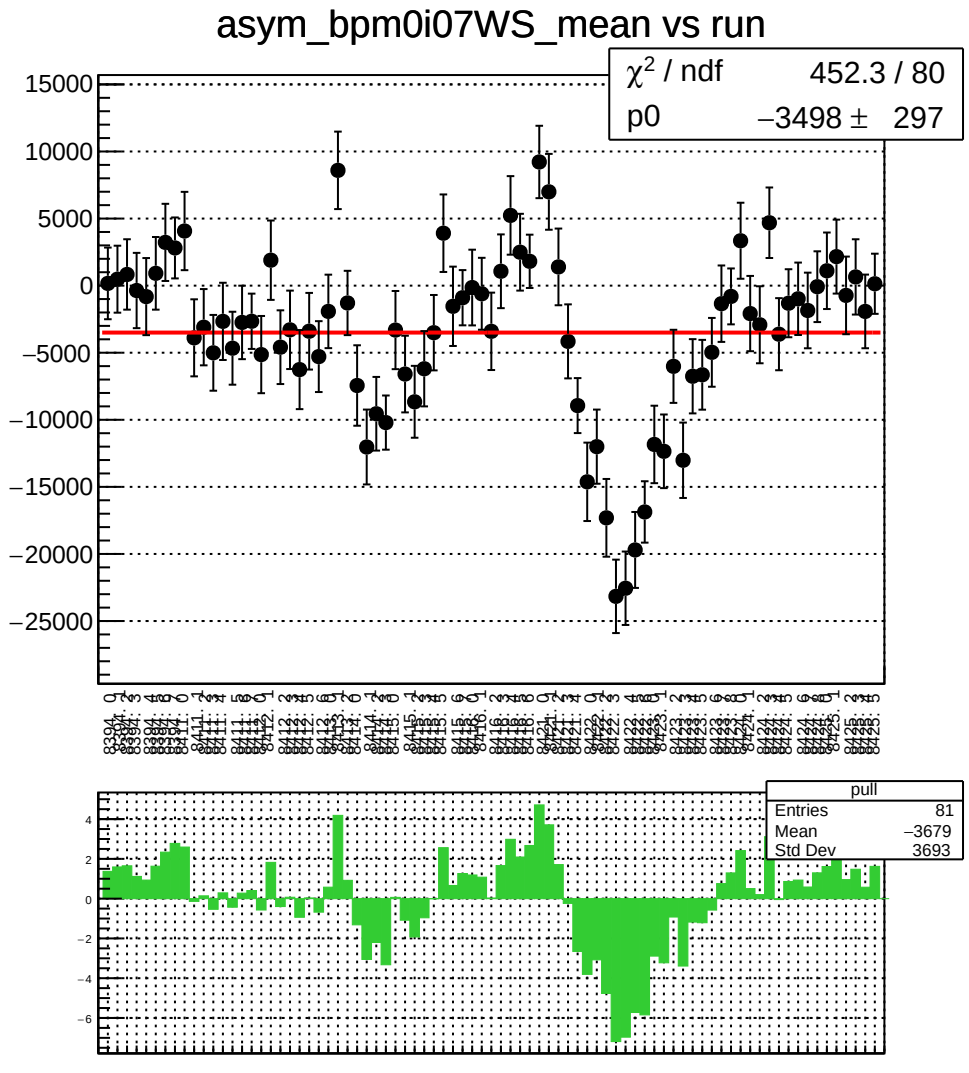

pull1D
Entries 81
Mean −0.002896
Std Dev 2.911

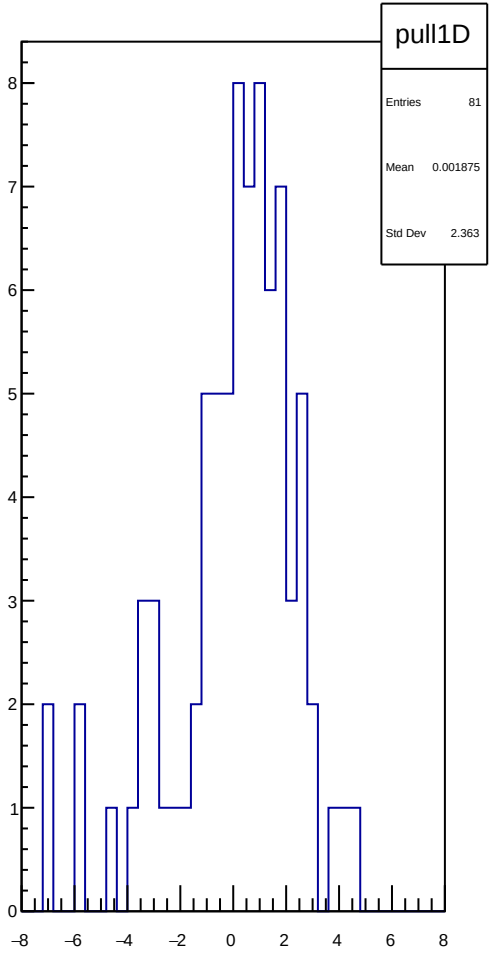

asym_bcm0l02_rms vs run
χ² / ndf 2191 / 80
p0 204.7 ± 0.1622
220
210
200
190
180
170

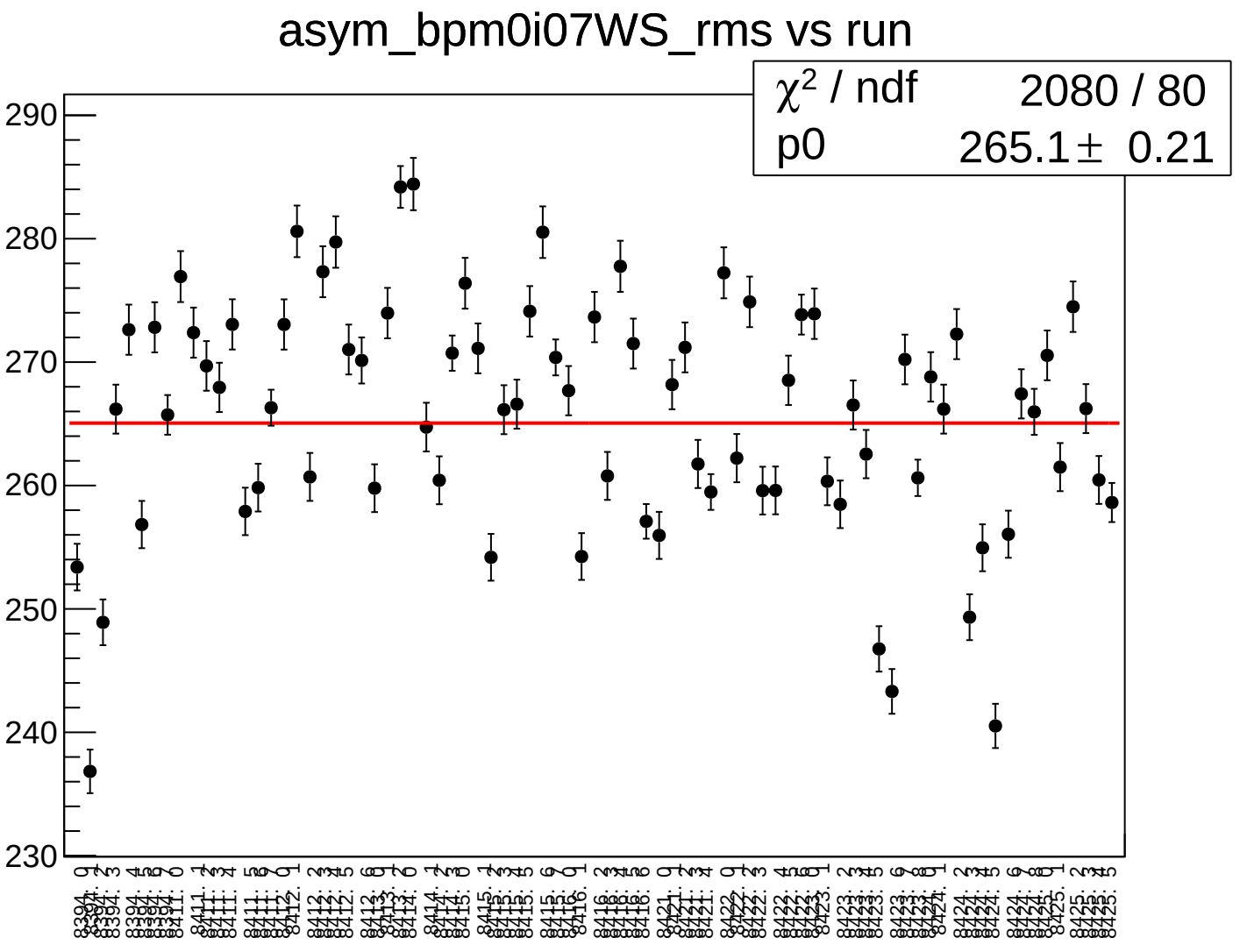

asym_bpm2i01WS_mean vs run
χ² / ndf 516.7 / 80
p0 −9180 ± 211.3
pull
Entries 81
Mean 654.9
Std Dev 609.2

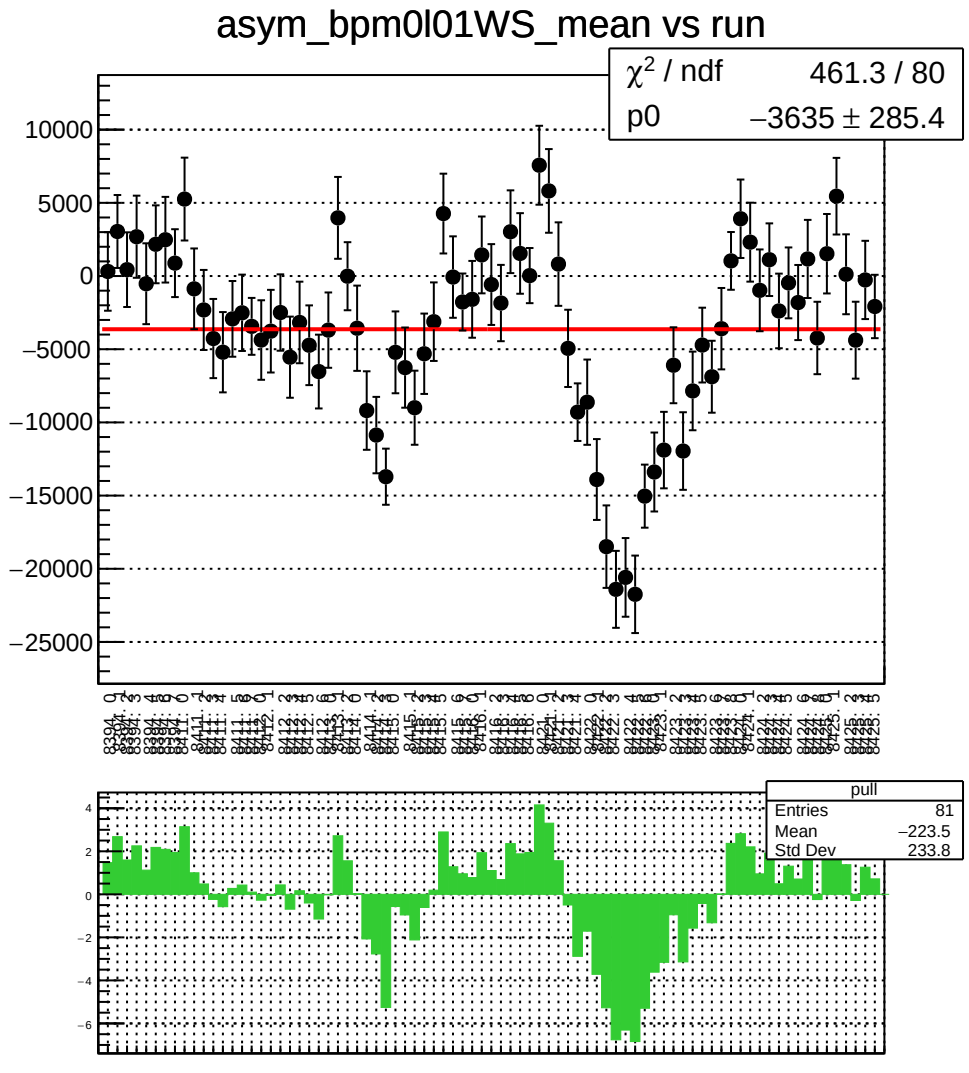

pull1D
Entries 81
Mean 0.04102
Std Dev 2.525

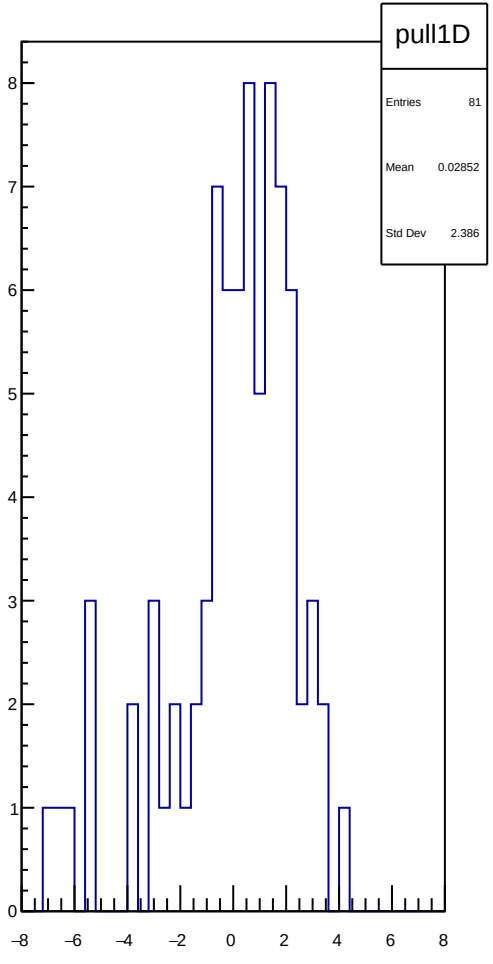

asym_bpm2i01WS_rms vs run
χ² / ndf 4038 / 80
p0 188.5 ± 0.1494
210
200
190
180
170
160

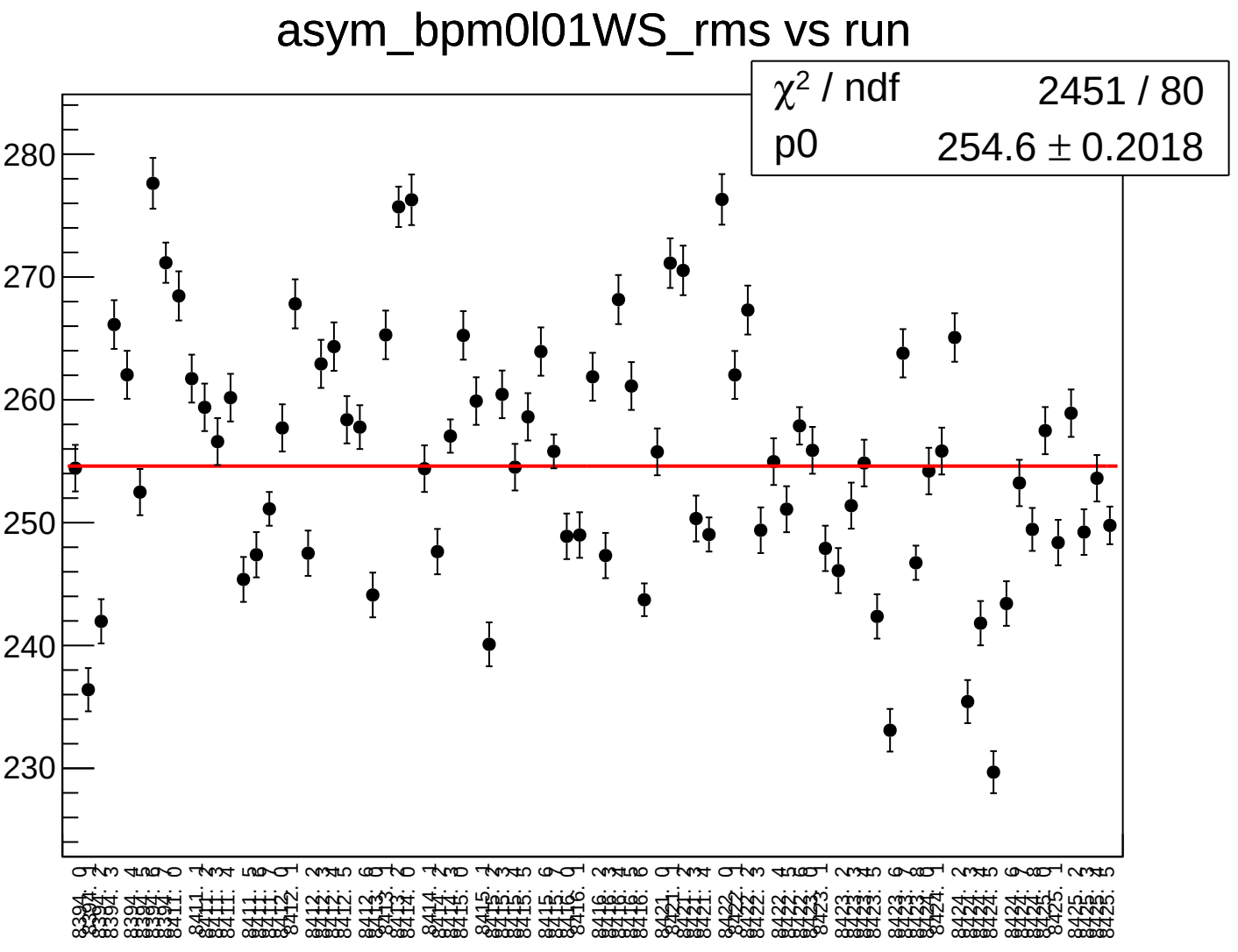

asym_bpm0i07WS_mean vs run
χ² / ndf 452.3 / 80
p0 −3498 ± 297
pull
Entries 81
Mean −3679
Std Dev 3693

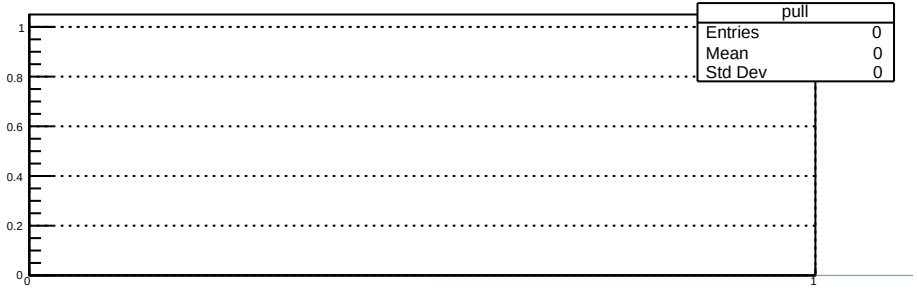

pull1D
Entries 81
Mean 0.001875
Std Dev 2.363

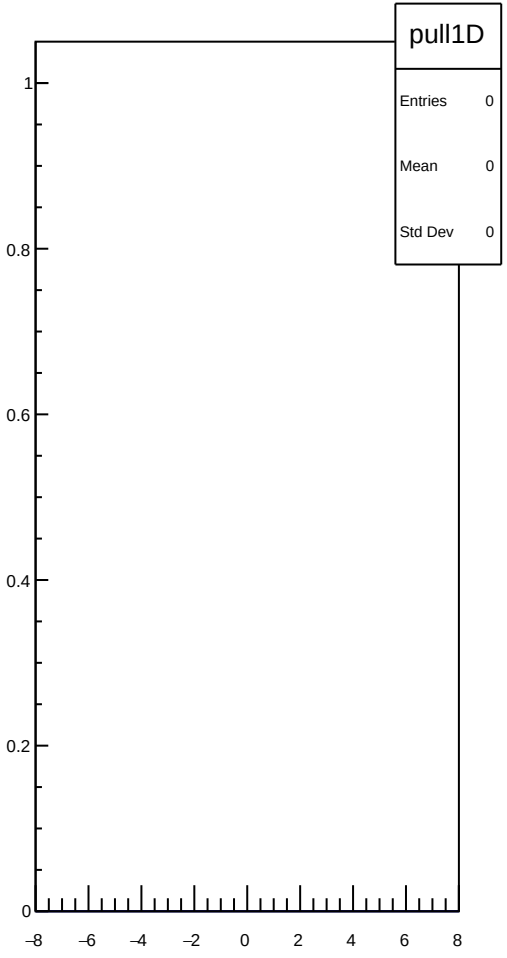

asym_bpm0i07WS_rms vs run
χ² / ndf 2080 / 80
p0 265.1 ± 0.21
290
280
270
260
250
240
230

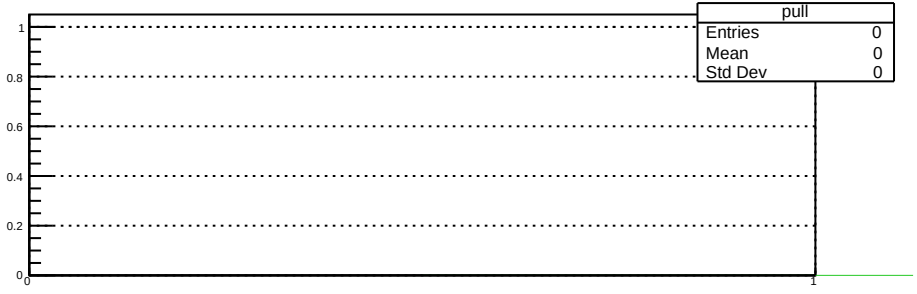

asym_bpm0l01WS_mean vs run
χ² / ndf 461.3 / 80
p0 −3635 ± 285.4
pull
Entries 81
Mean −223.5
Std Dev 233.8

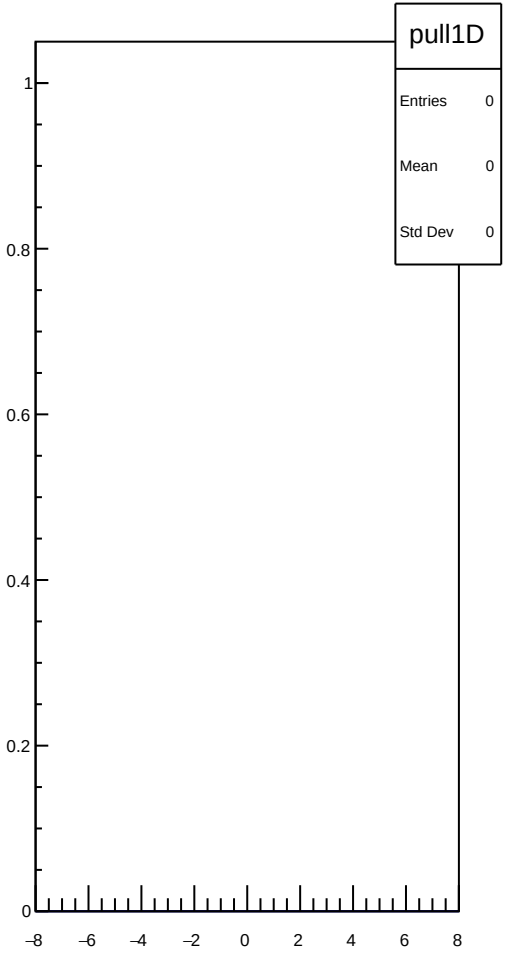

pull1D
Entries 81
Mean 0.02852
Std Dev 2.386

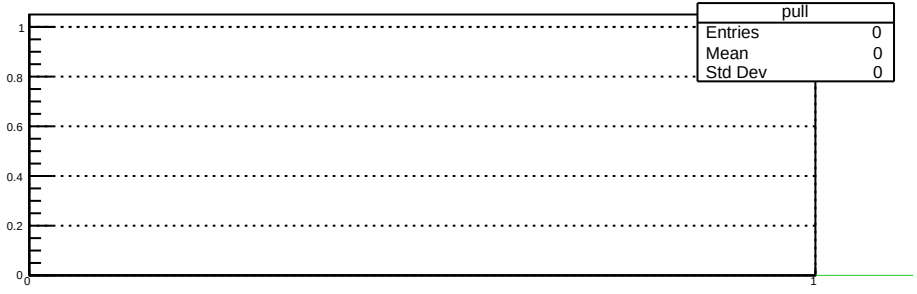

asym_bpm0l01WS_rms vs run
χ² / ndf 2451 / 80
p0 254.6 ± 0.2018
280
270
260
250
240
230

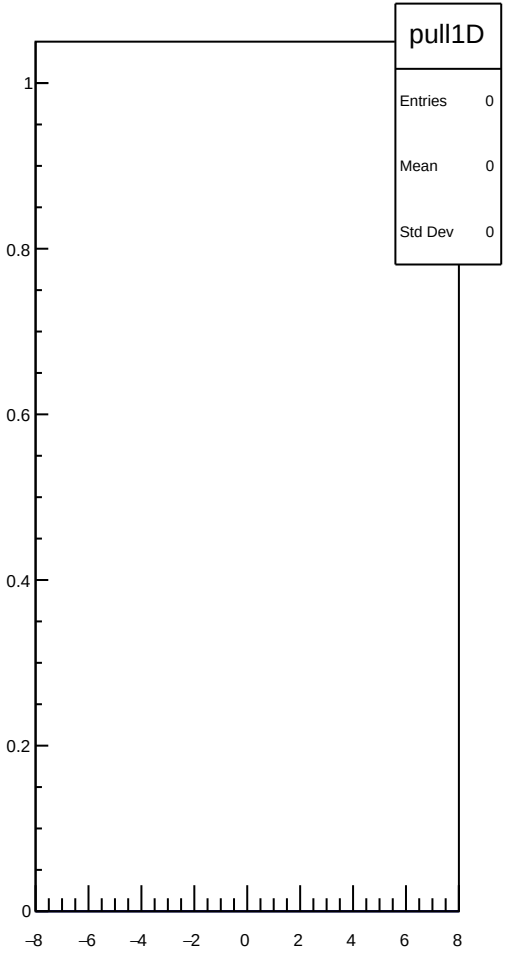

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

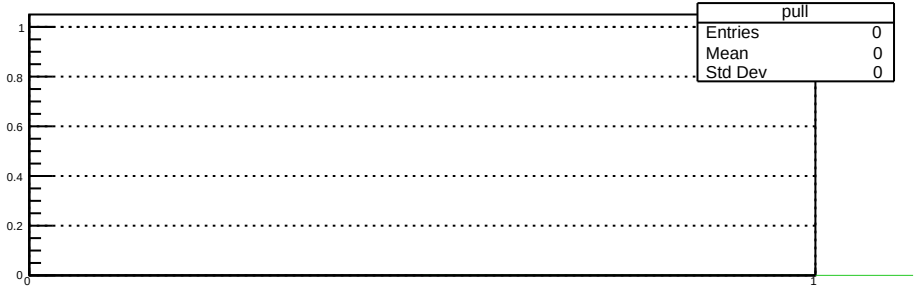

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

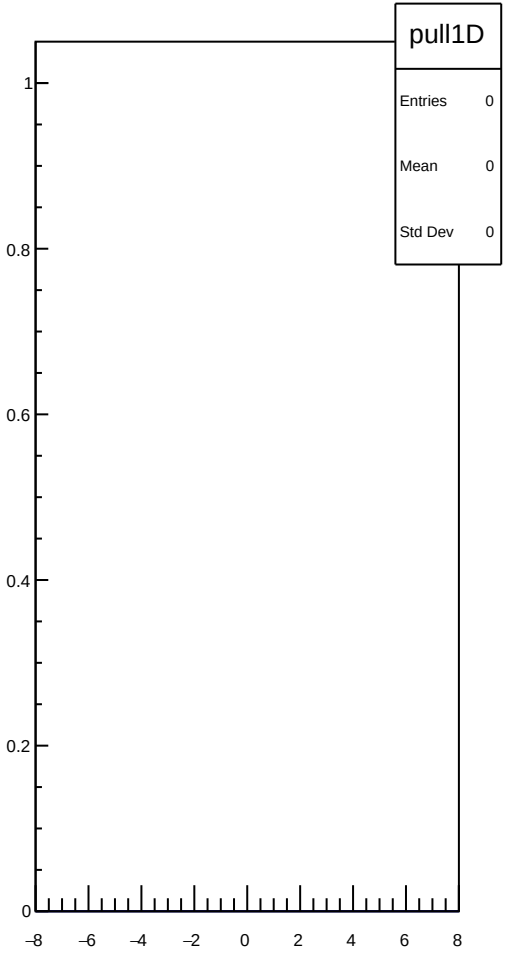

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

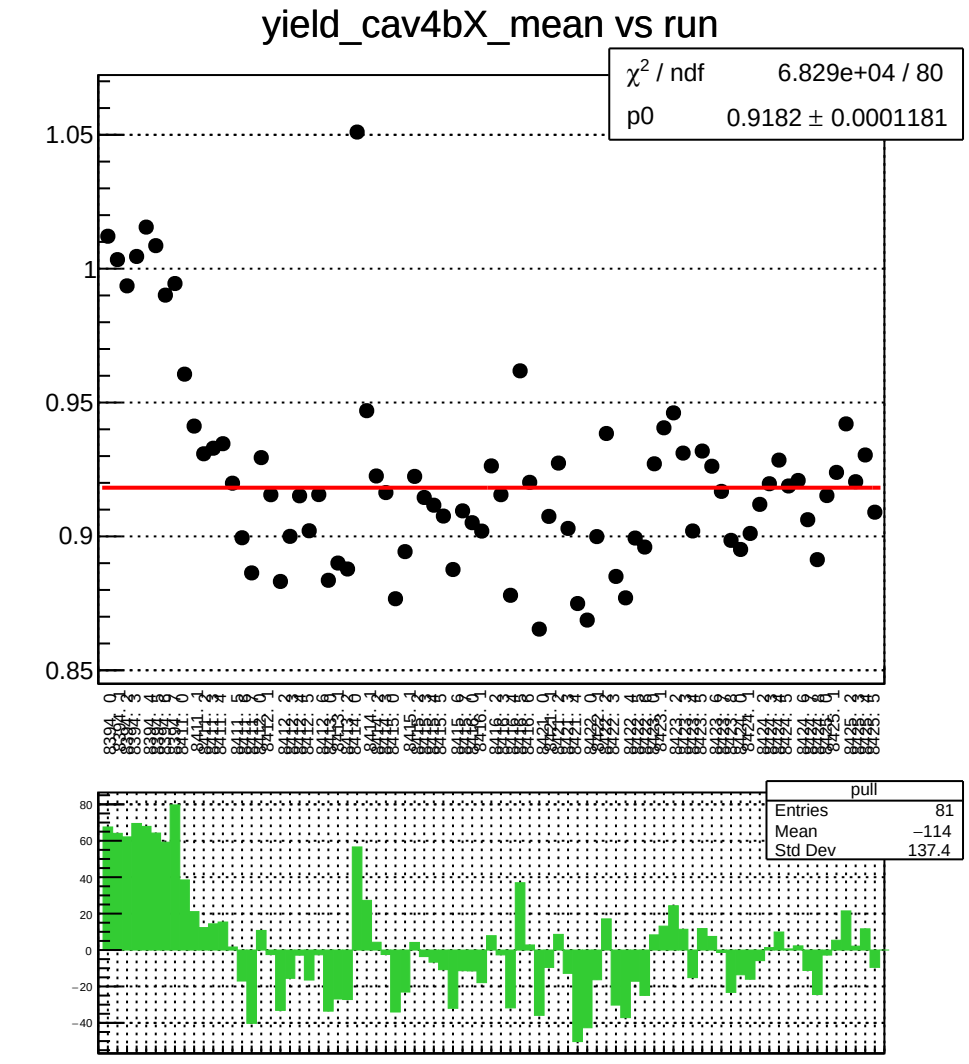

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

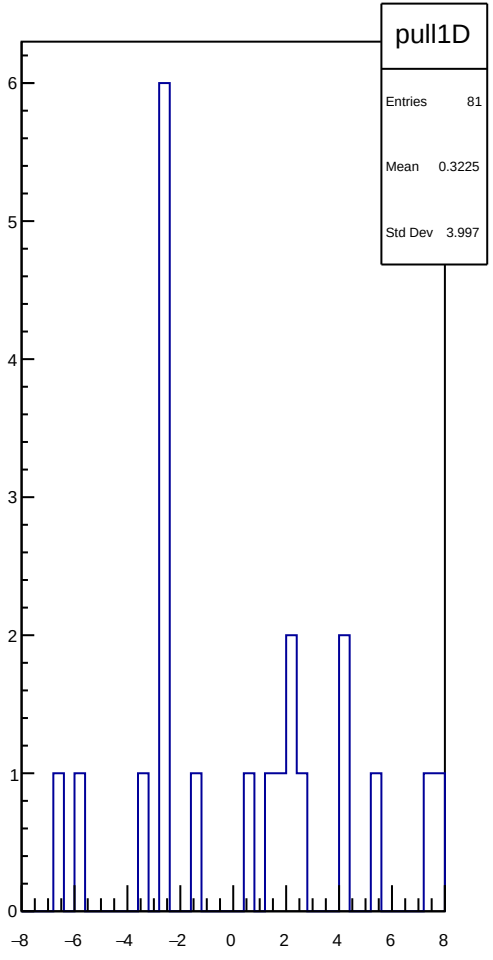

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

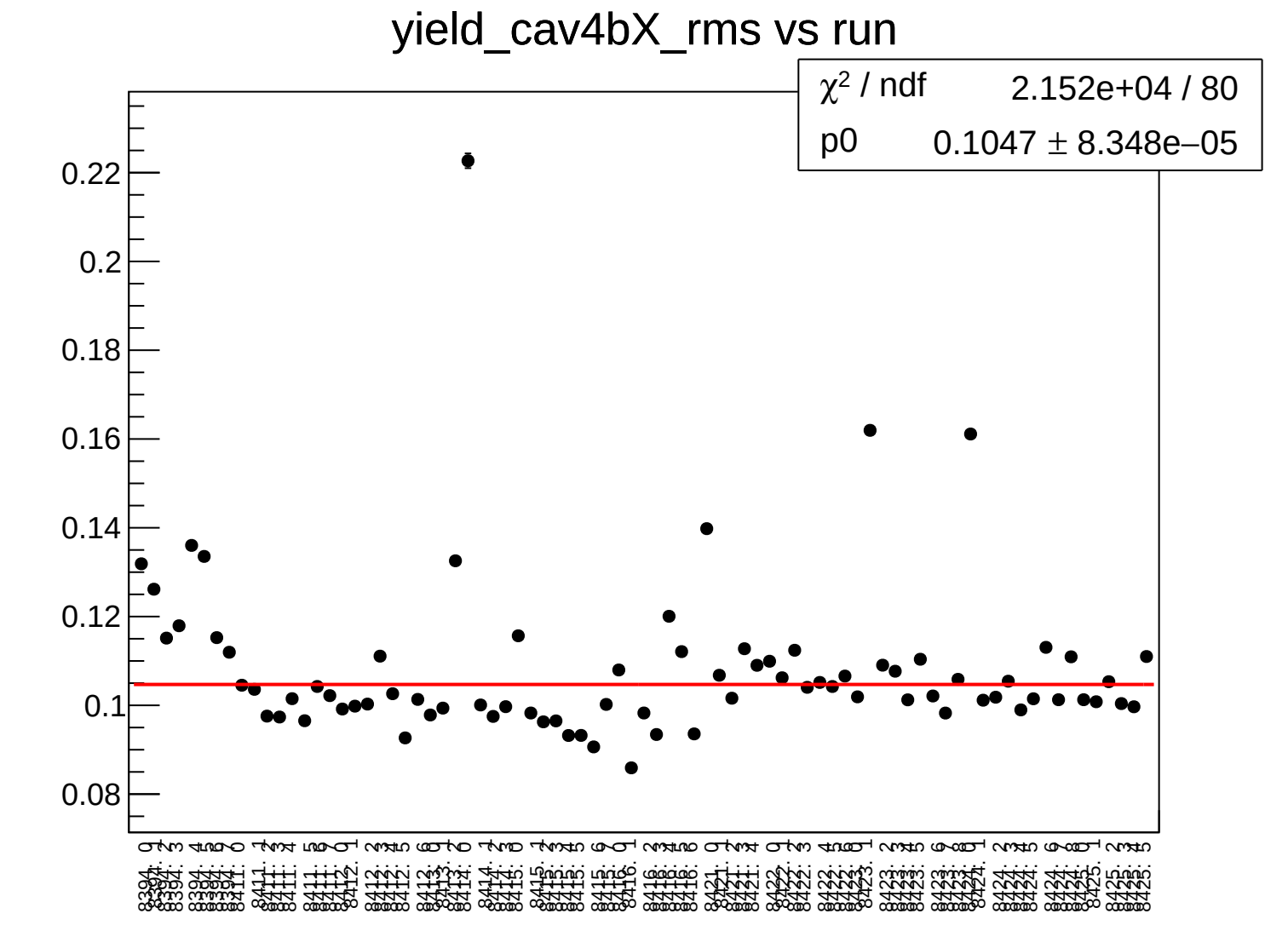

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

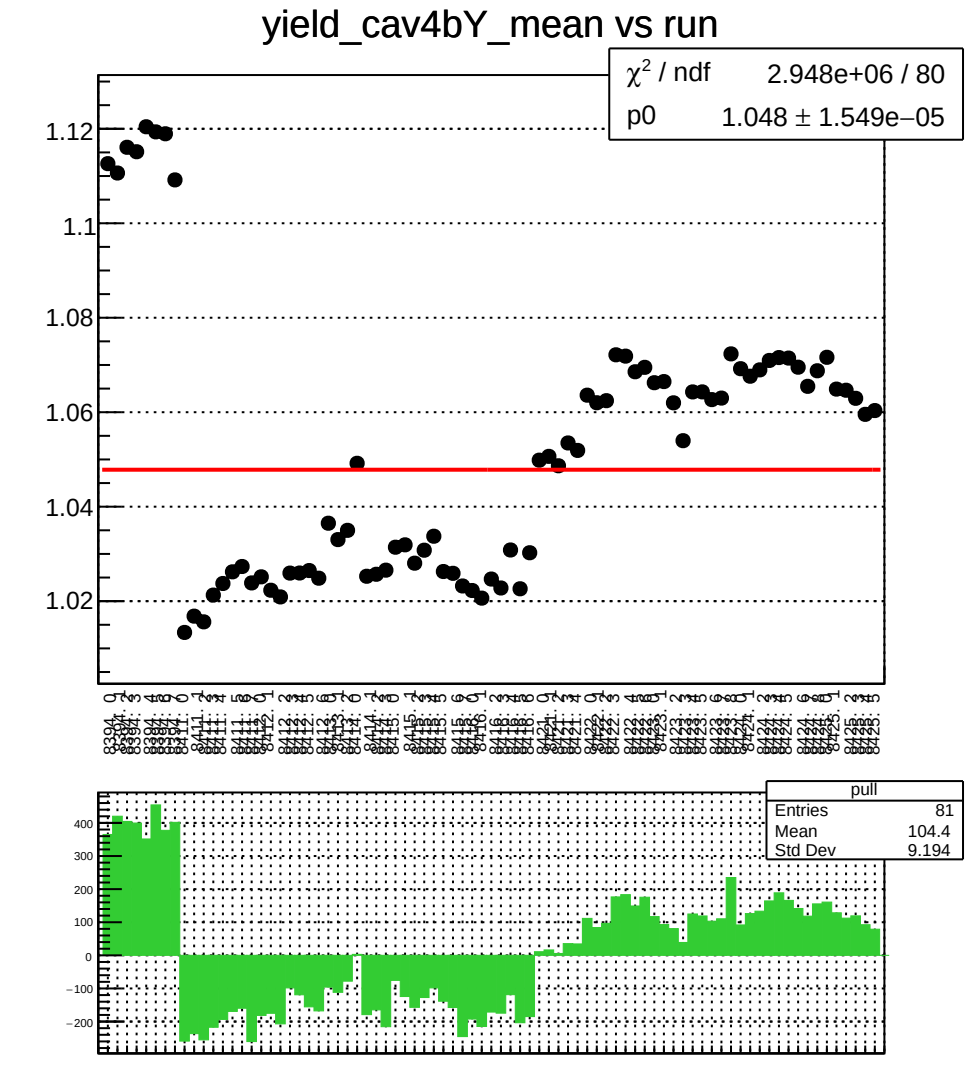

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

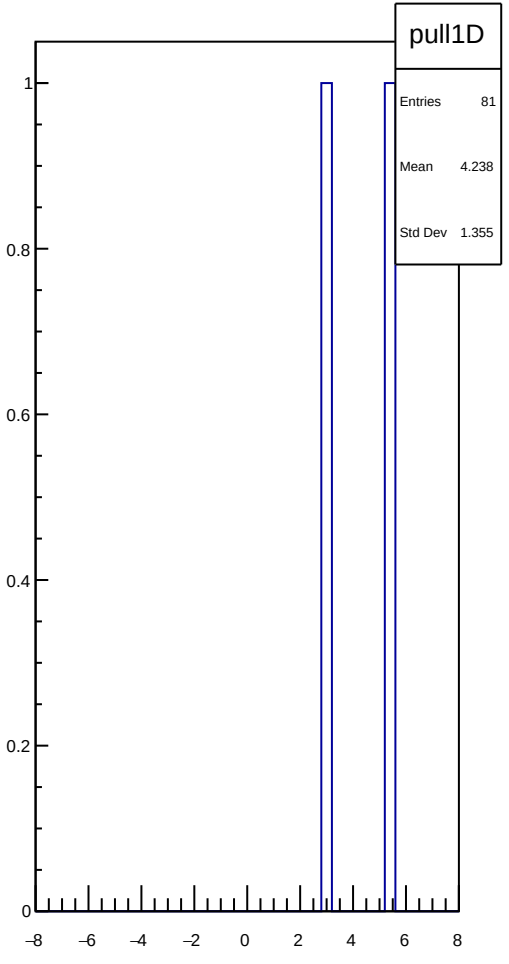

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

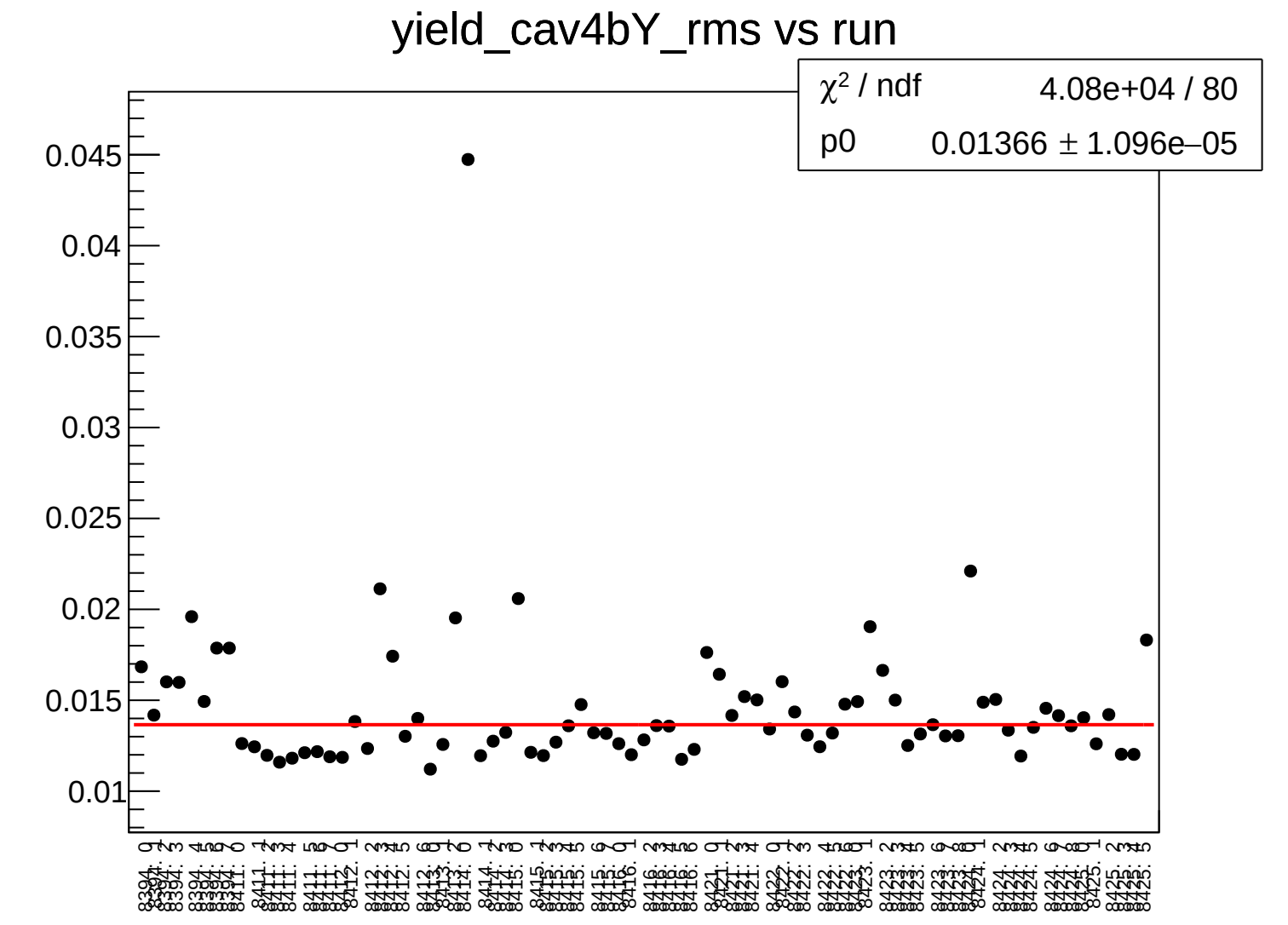

yield_cav4bX_mean vs run
χ² / ndf 6.829e+04 / 80
p0 0.9182 ± 0.0001181
1.05
1
0.95
0.9
0.85
pull
Entries 81
Mean −114
Std Dev 137.4
80
60
40
20
0
−20
−40

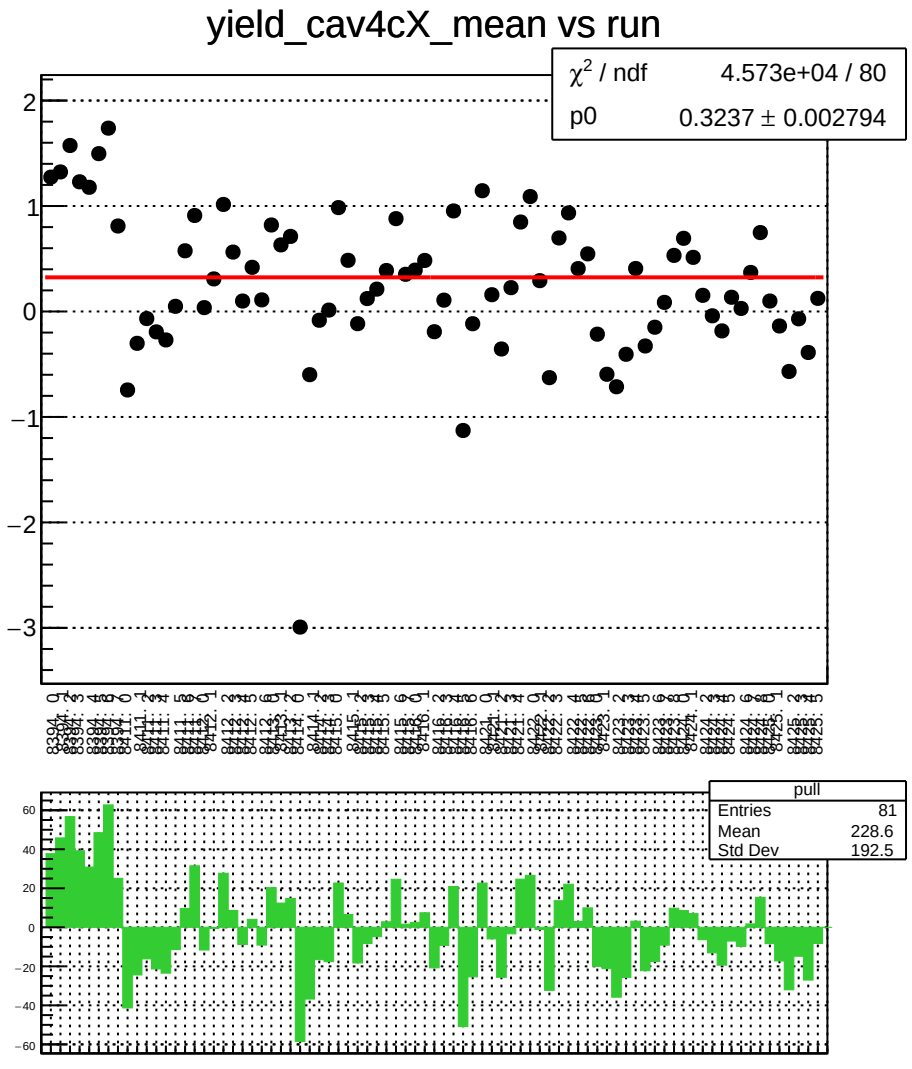

pull1D
Entries 81
Mean 0.3225
Std Dev 3.997
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

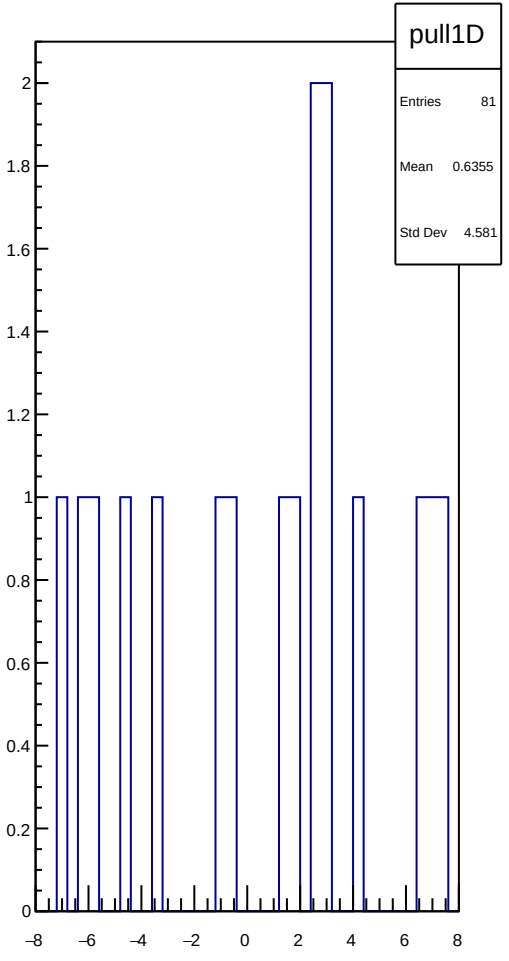

yield_cav4bX_rms vs run
χ² / ndf 2.152e+04 / 80
p0 0.1047 ± 8.348e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

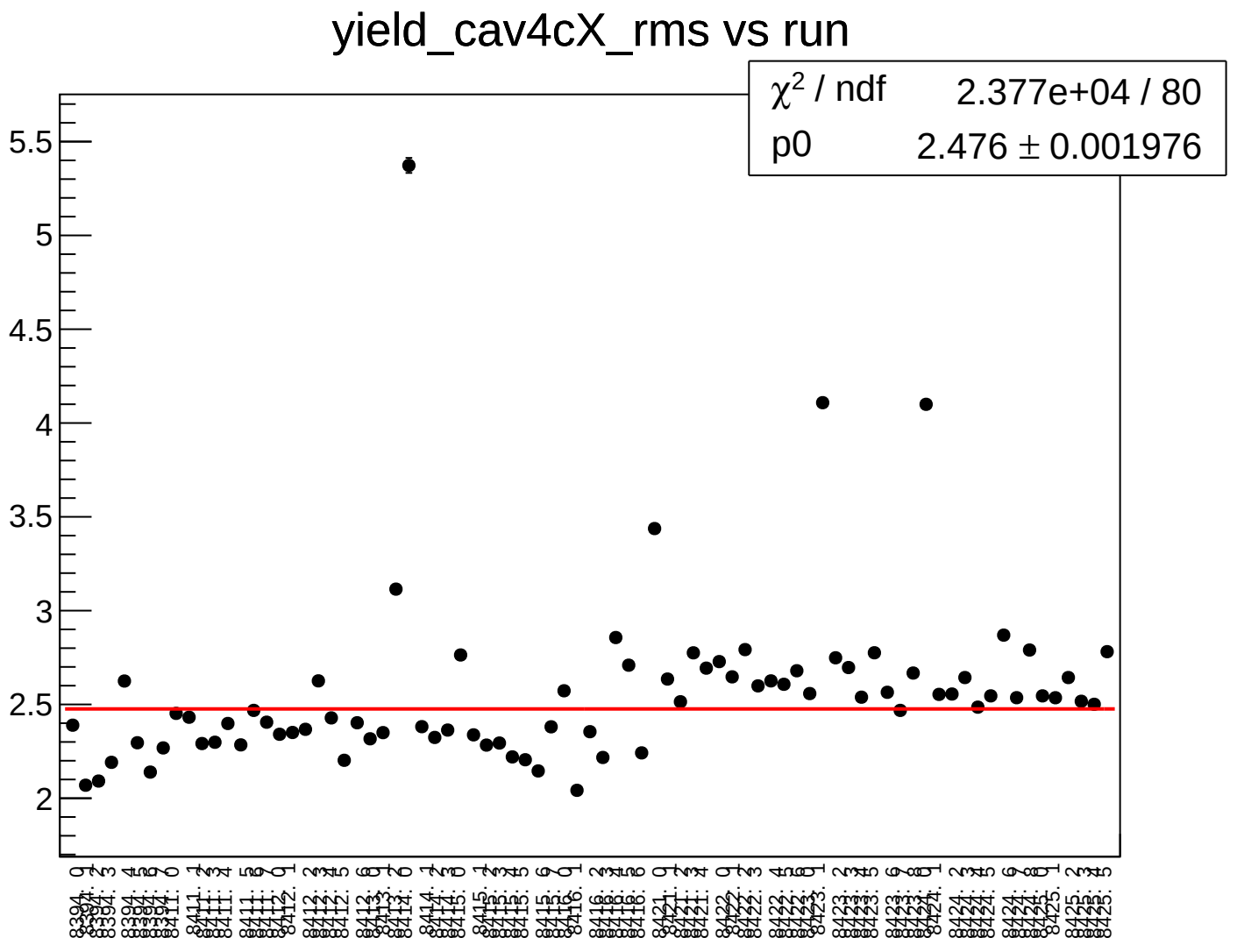

yield_cav4bY_mean vs run
χ² / ndf 2.948e+06 / 80
p0 1.048 ± 1.549e−05
1.12
1.1
1.08
1.06
1.04
1.02
pull
Entries 81
Mean 104.4
Std Dev 9.194
400
300
200
100
0
−100
−200

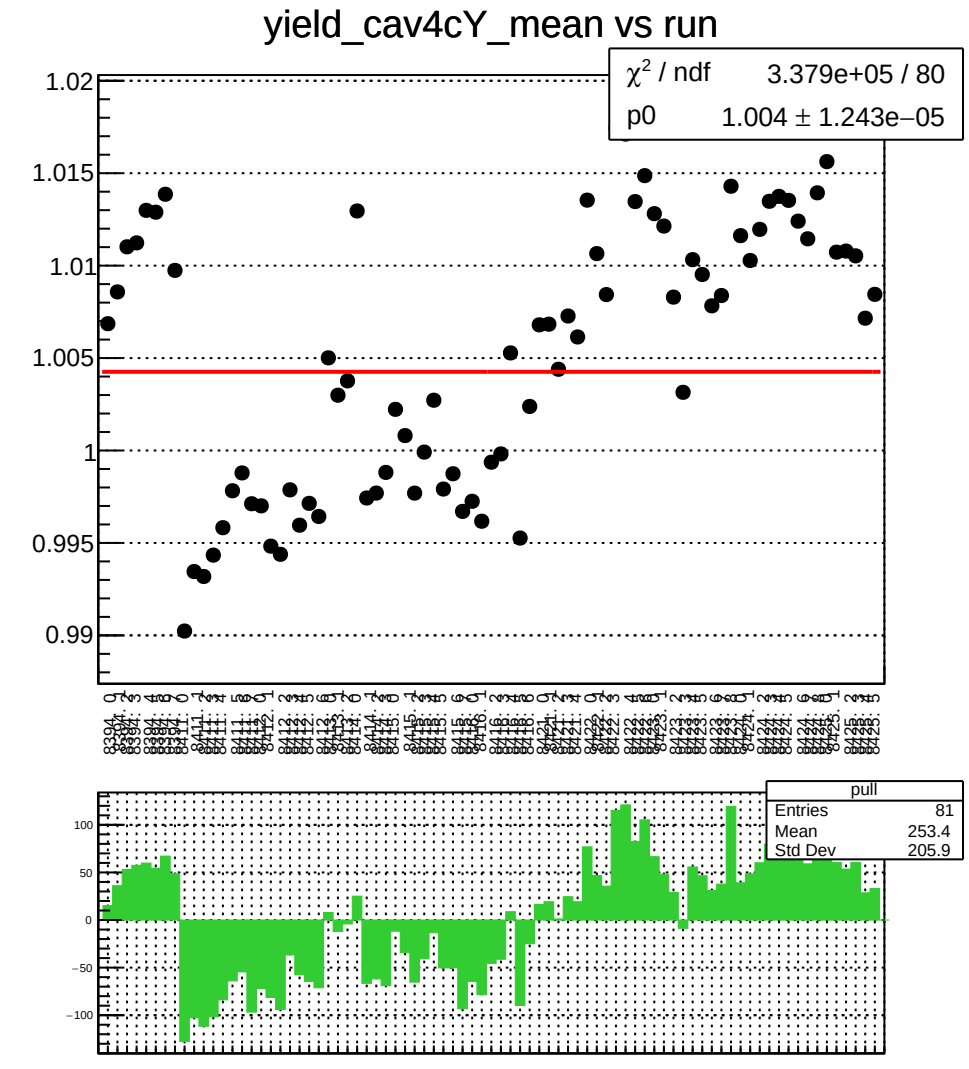

pull1D
Entries 81
Mean 4.238
Std Dev 1.355
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

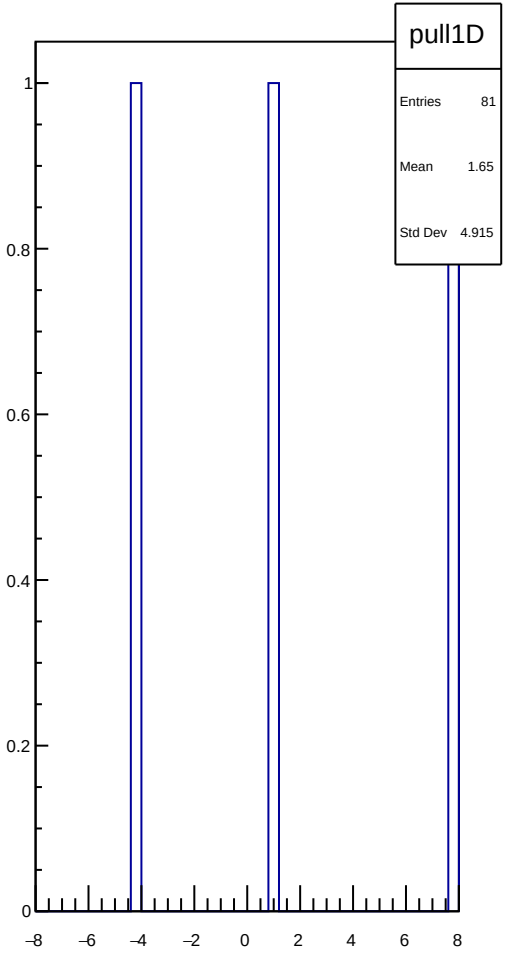

yield_cav4bY_rms vs run
χ² / ndf 4.08e+04 / 80
p0 0.01366 ± 1.096e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01


yield_cav4cX_mean vs run
χ² / ndf 4.573e+04 / 80
p0 0.3237 ± 0.002794
pull
Entries 81
Mean 228.6
Std Dev 192.5

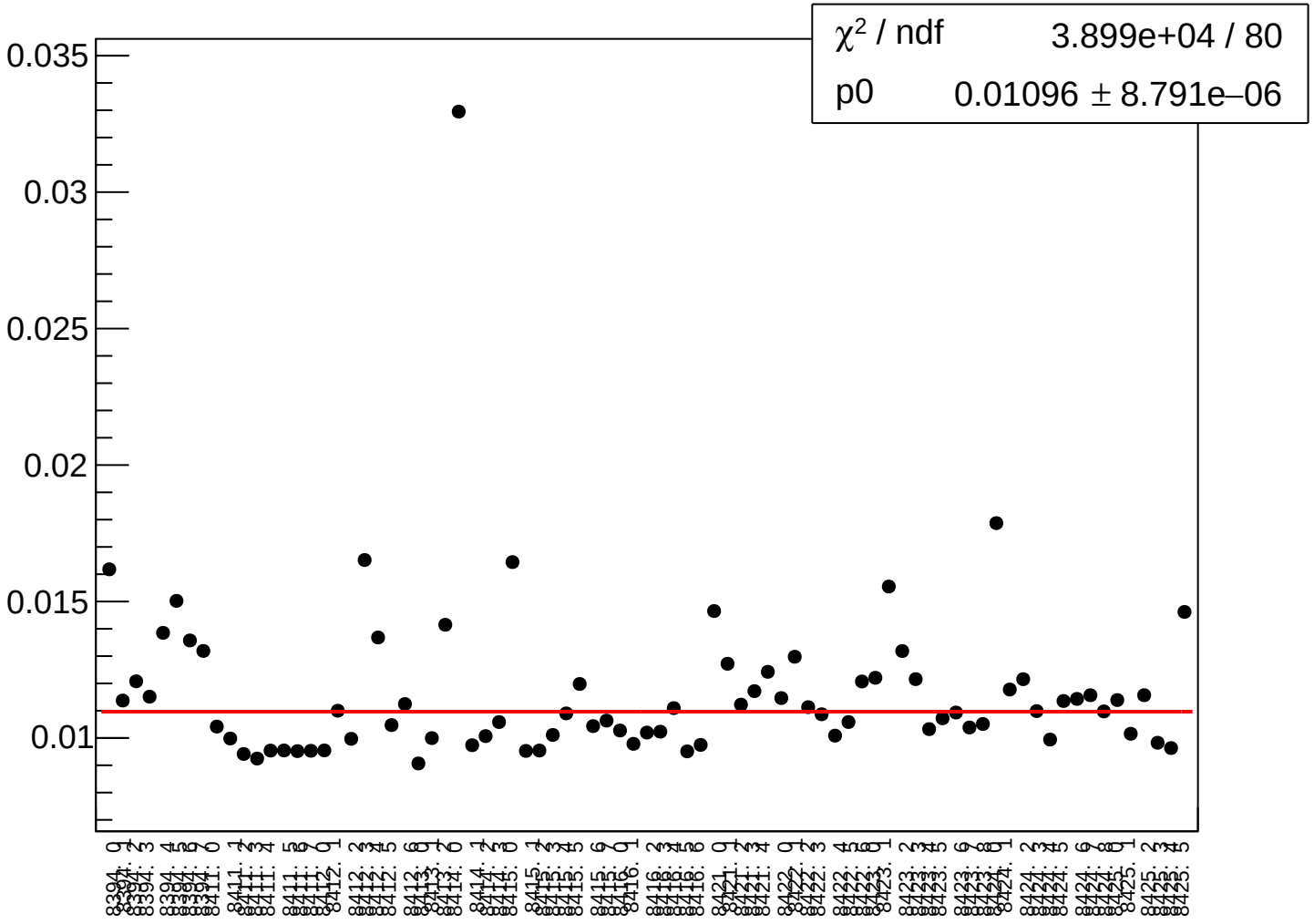

pull1D
Entries 81
Mean 0.6355
Std Dev 4.581

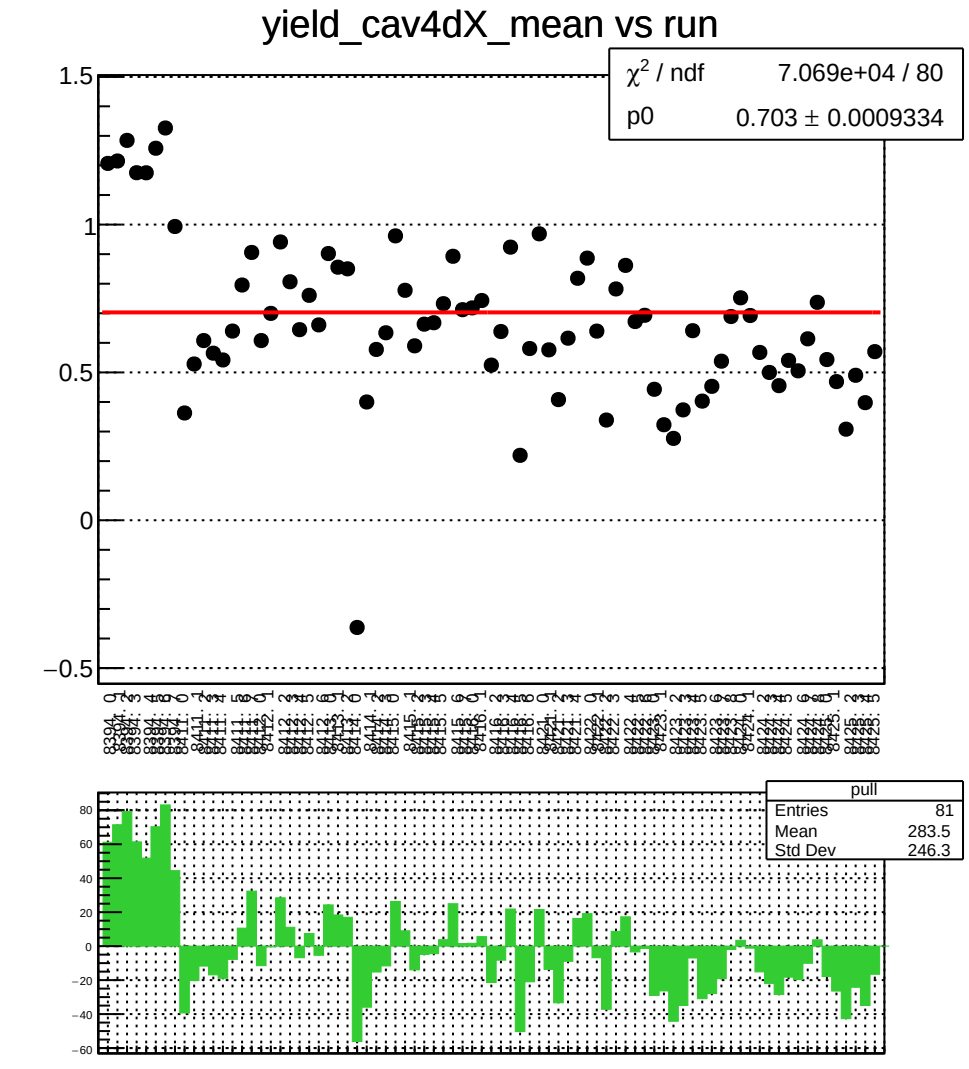

yield_cav4cX_rms vs run
χ^2 / ndf 2.377e+04 / 80
p0 2.476 ± 0.001976
5.5
5
4.5
4
3.5
3
2.5
2

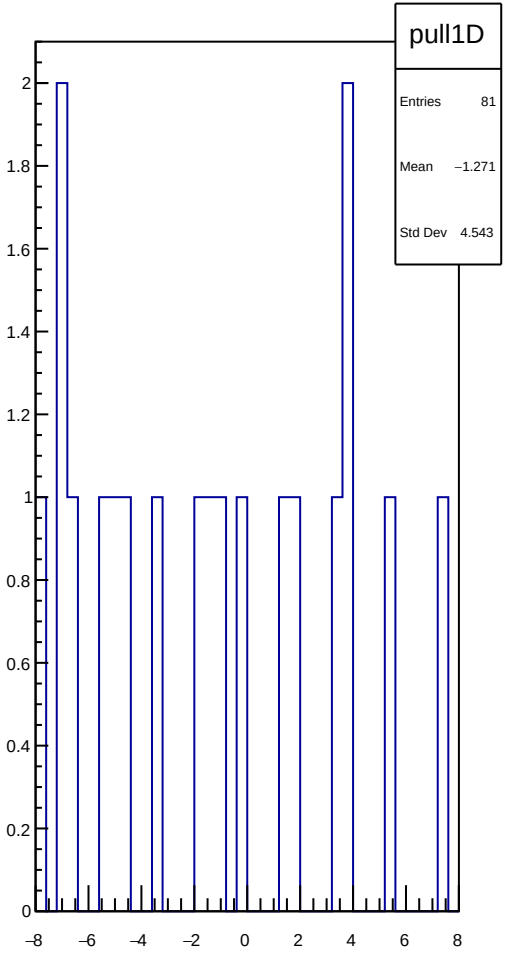

yield_cav4cY_mean vs run
χ² / ndf 3.379e+05 / 80
p0 1.004 ± 1.243e−05
1.02
1.015
1.01
1.005
1
0.995
0.99
pull
Entries 81
Mean 253.4
Std Dev 205.9
100
50
0
−50
−100

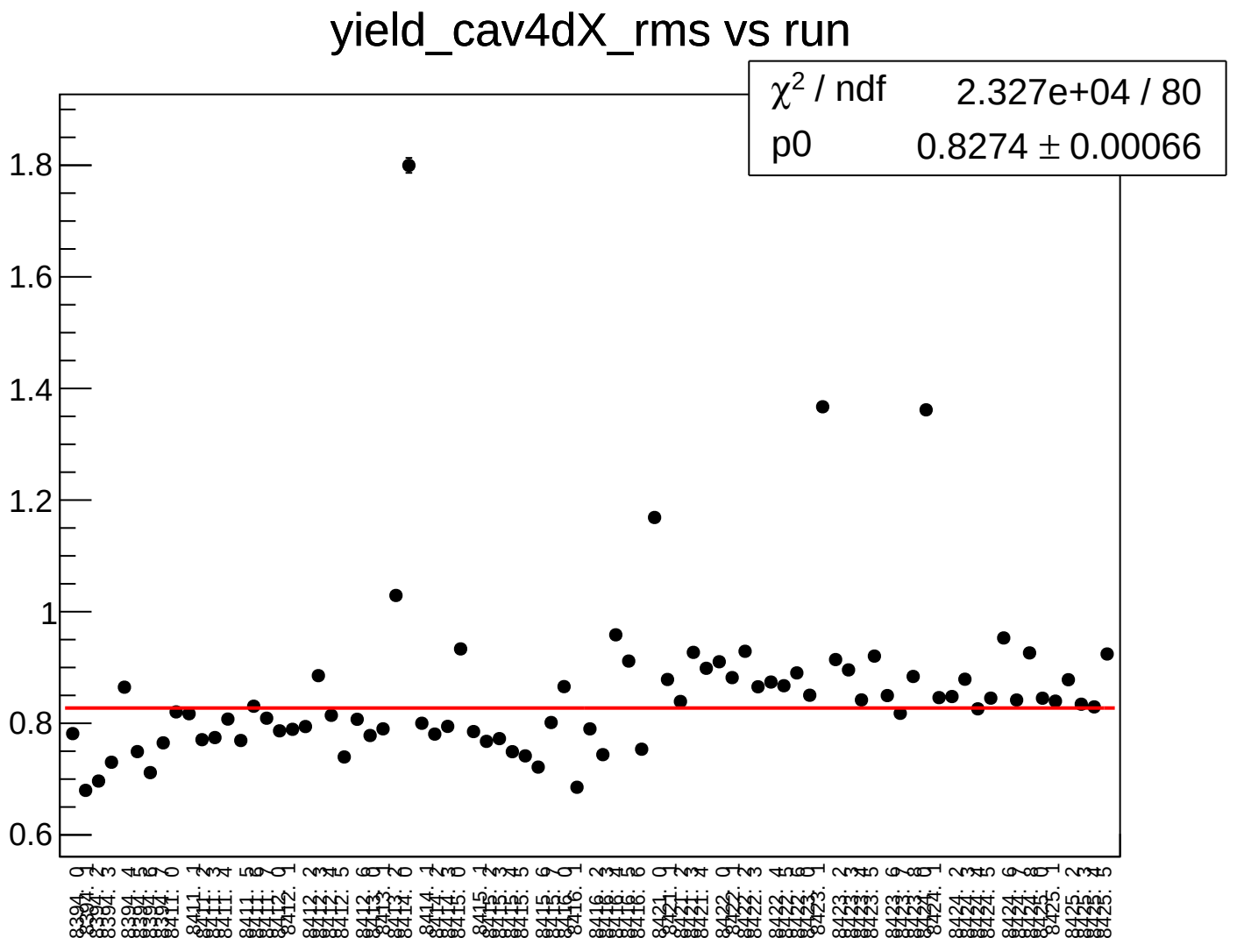

pull1D
Entries 81
Mean 1.65
Std Dev 4.915
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

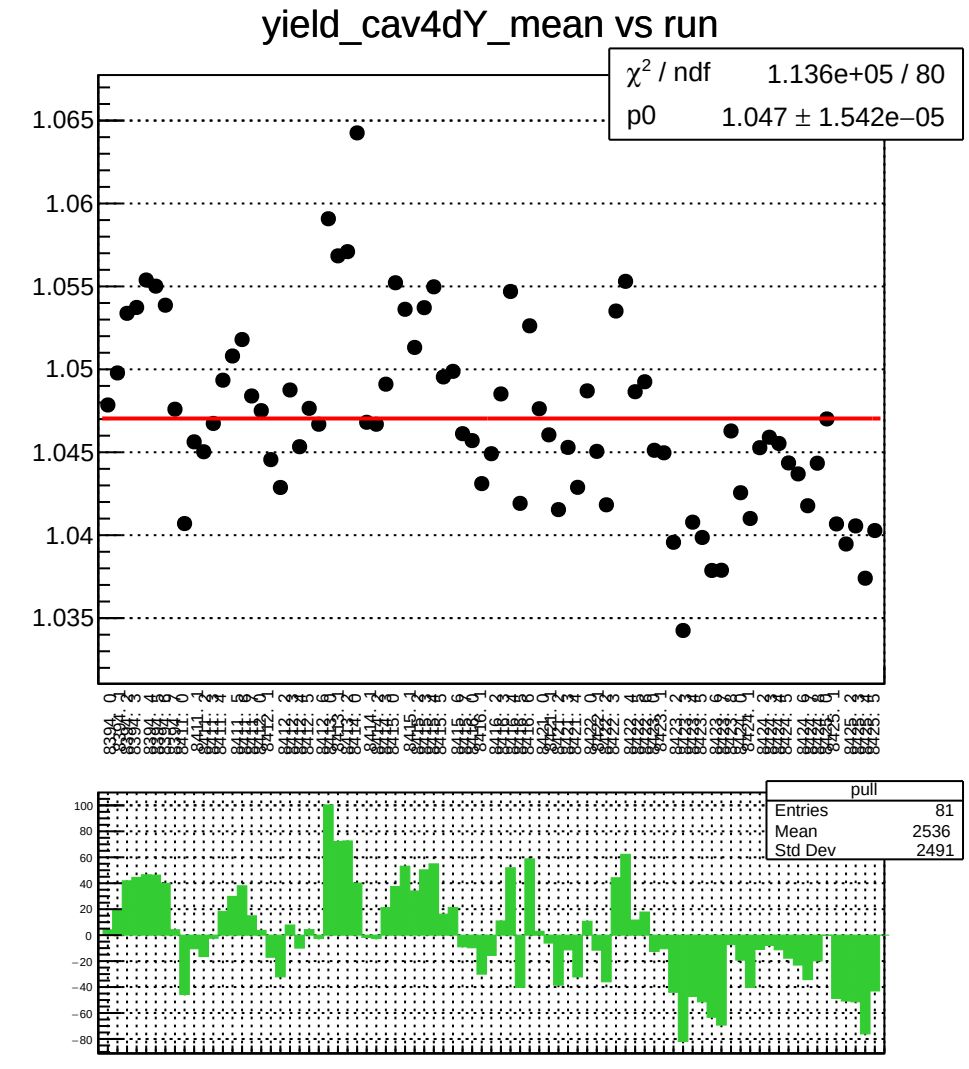
yield_cav4cY_rms vs run

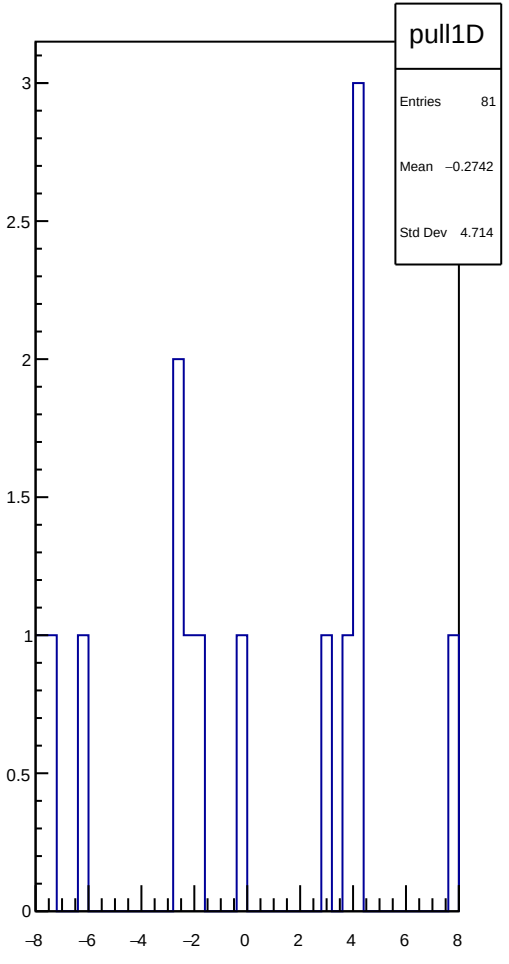


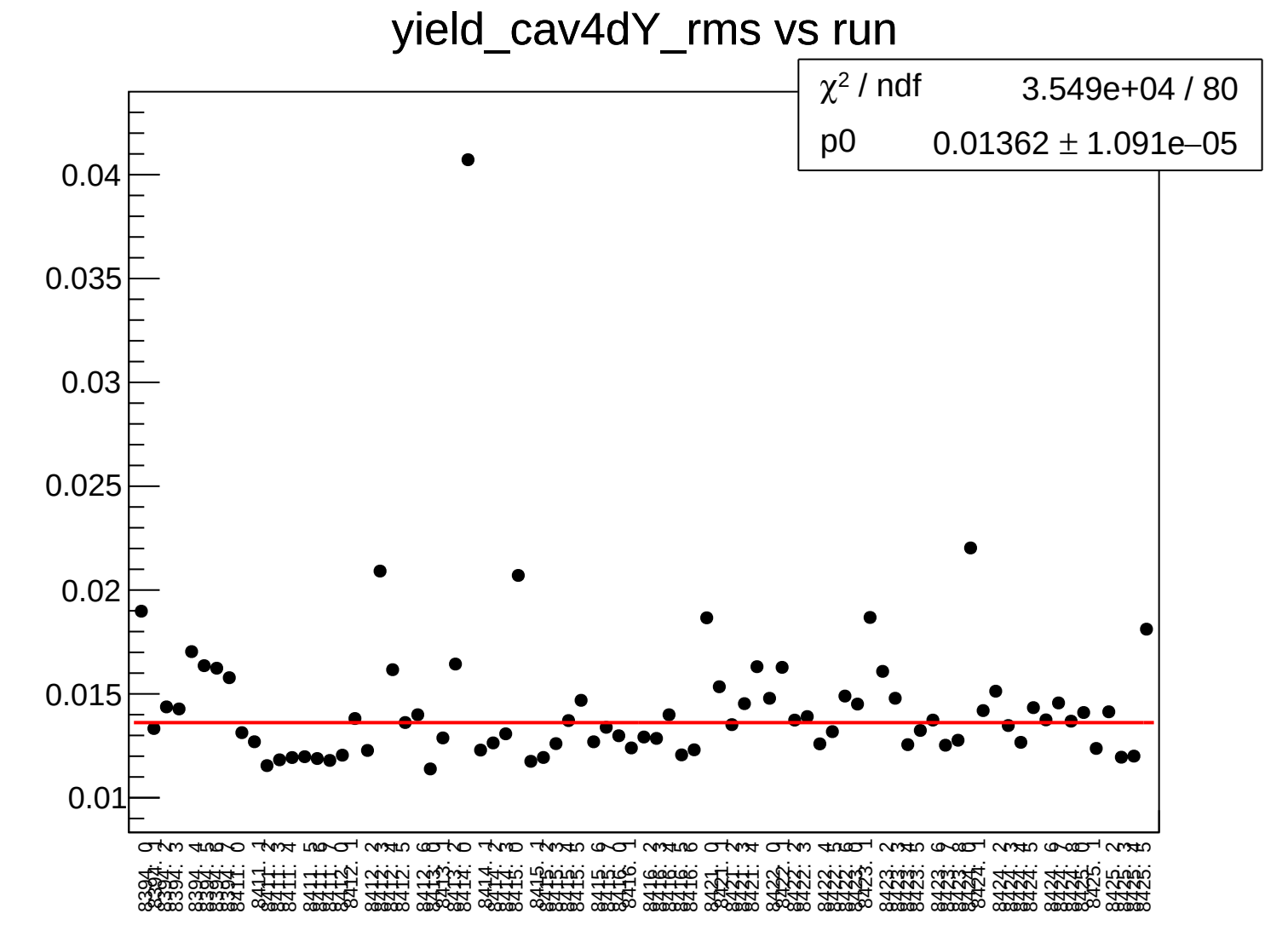

yield_cav4dX_mean vs run
χ² / ndf 7.069e+04 / 80
p0 0.703 ± 0.0009334
1.5
1
0.5
0
−0.5
pull
Entries 81
Mean 283.5
Std Dev 246.3
80
60
40
20
0
−20
−40
−60

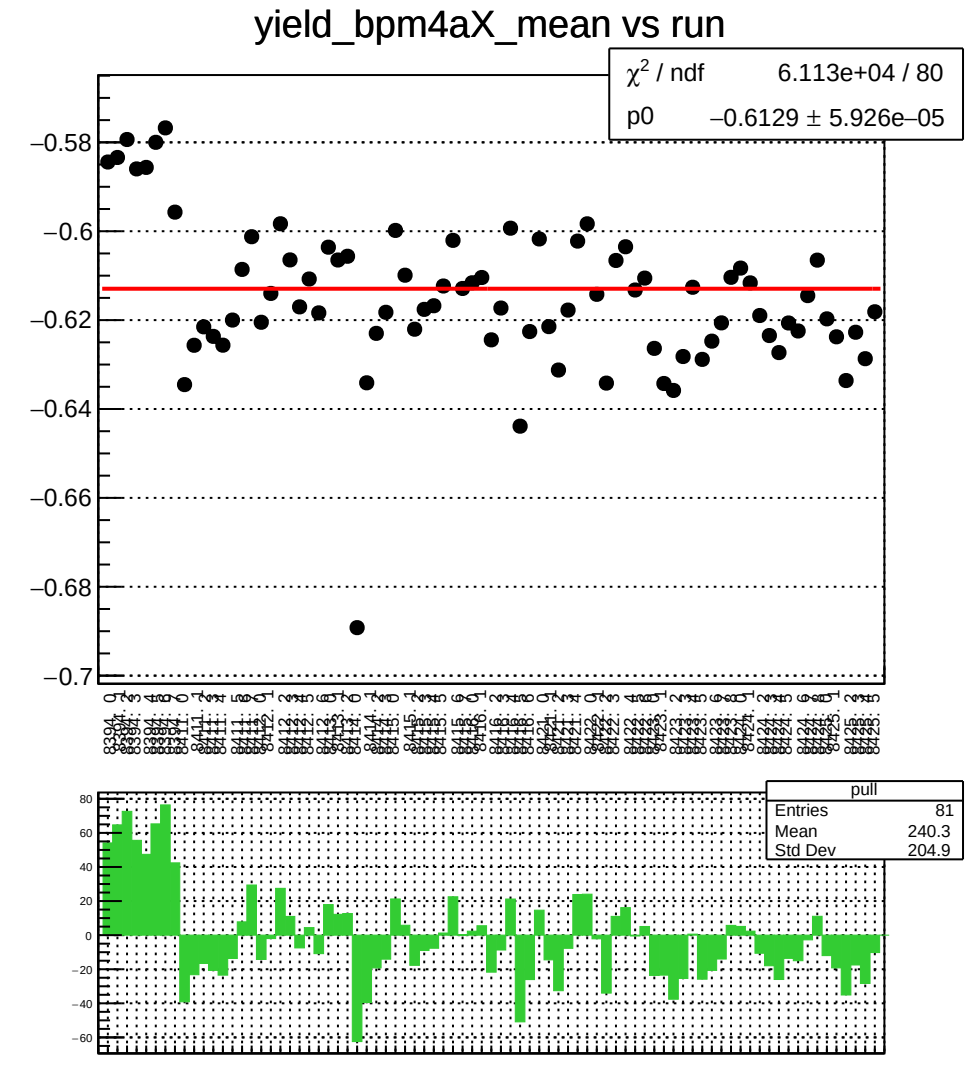

pull1D
Entries 81
Mean −1.271
Std Dev 4.543
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

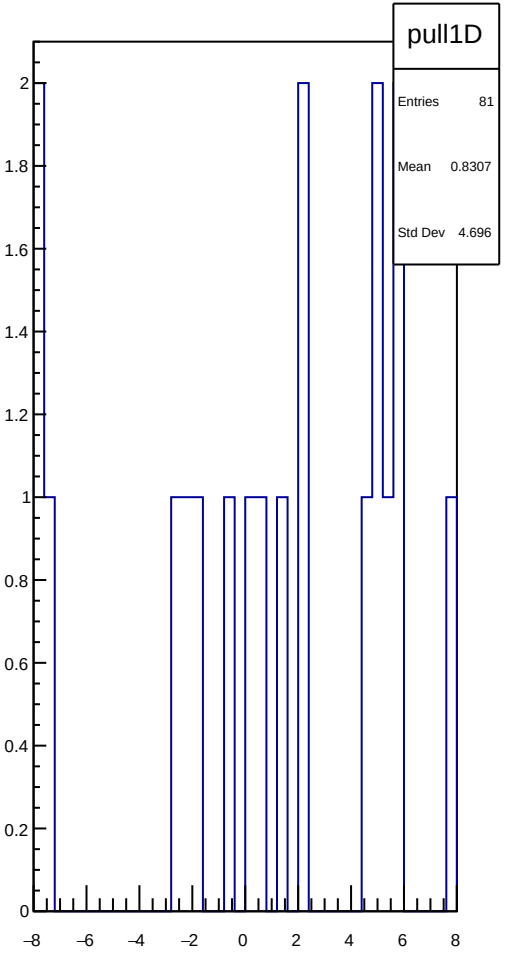

yield_cav4dX_rms vs run
χ^2 / ndf 2.327e+04 / 80
p0 0.8274 ± 0.00066
1.8
1.6
1.4
1.2
1
0.8
0.6

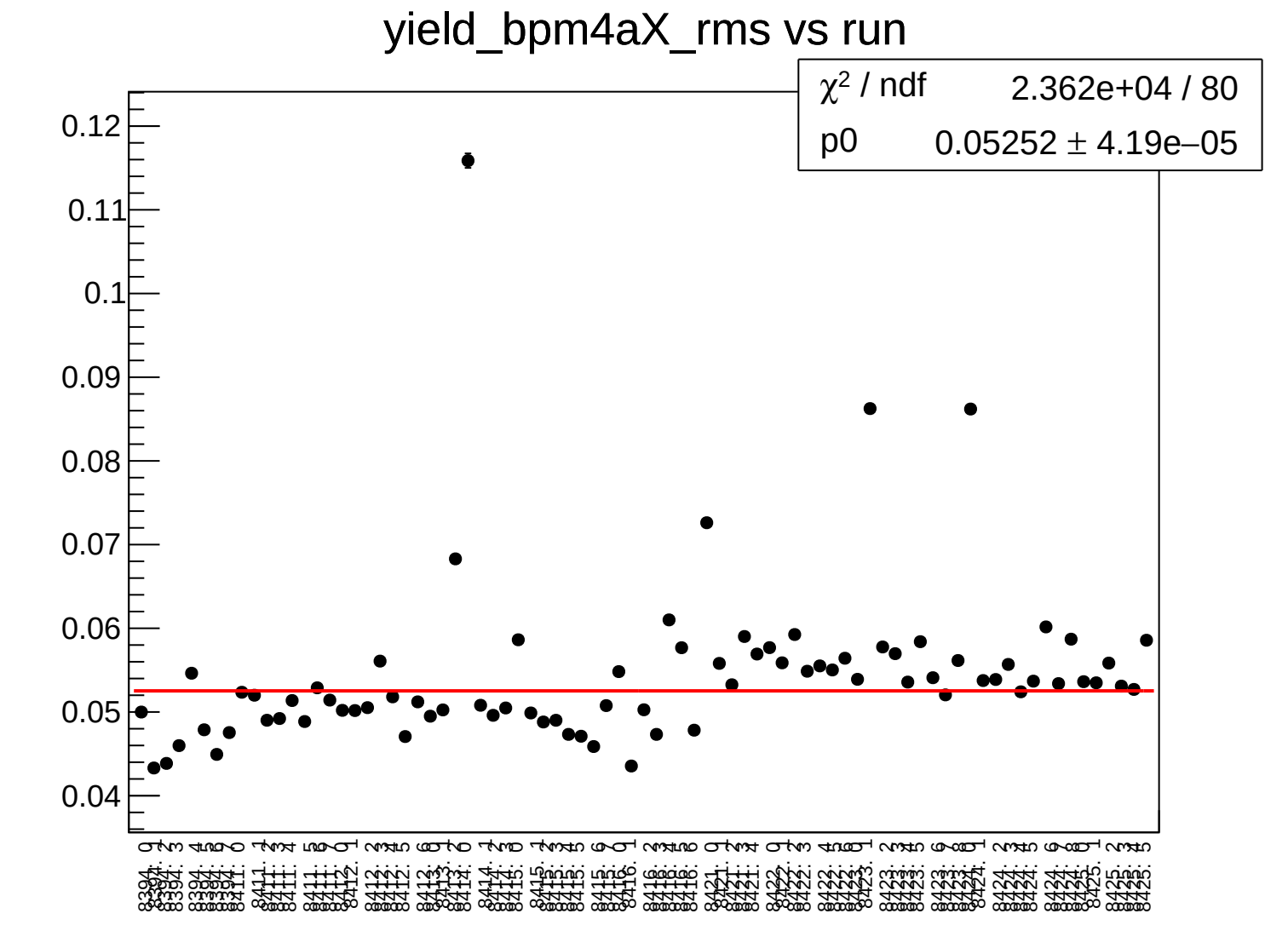

yield_cav4dY_mean vs run
χ² / ndf 1.136e+05 / 80
p0 1.047 ± 1.542e−05
1.065
1.06
1.055
1.05
1.045
1.04
1.035
pull
Entries 81
Mean 2536
Std Dev 2491
100
80
60
40
20
0
−20
−40
−60
−80

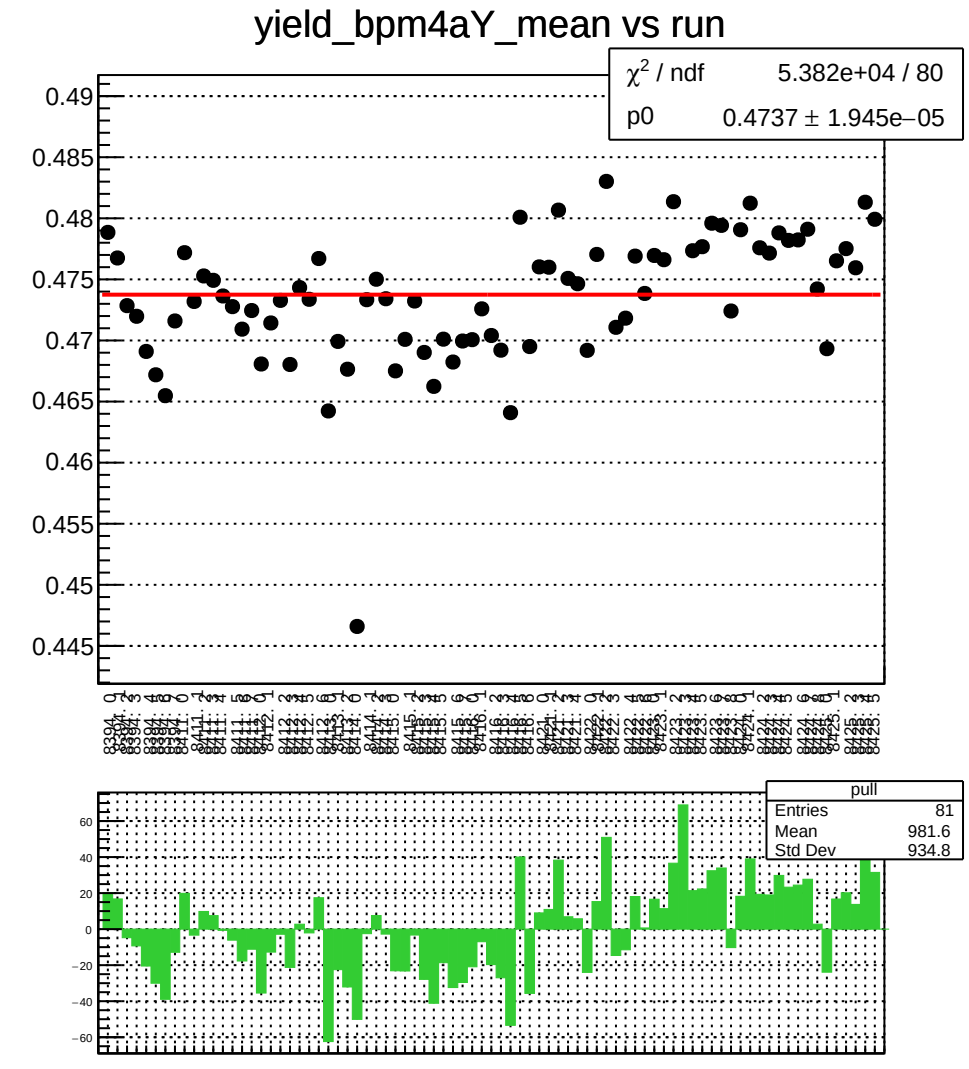

pull1D
Entries 81
Mean −0.2742
Std Dev 4.714
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

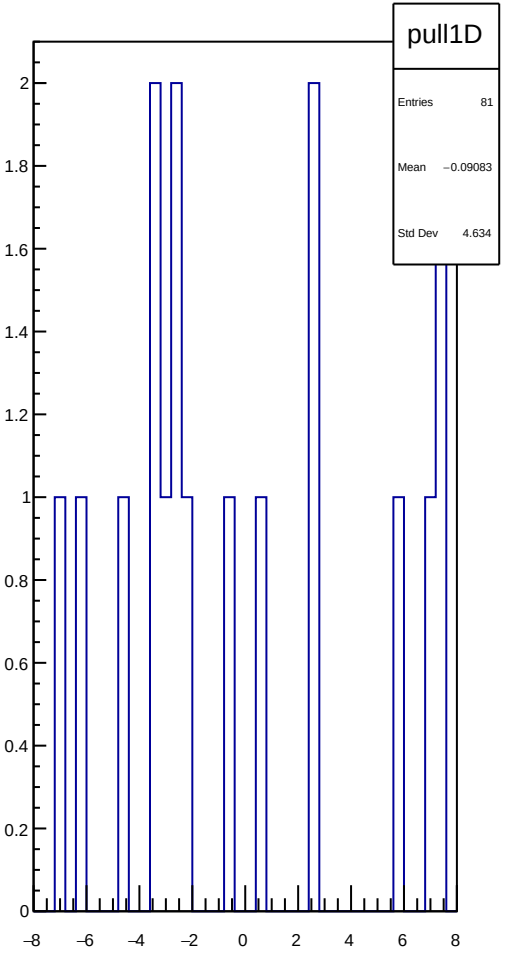

yield_cav4dY_rms vs run
χ² / ndf 3.549e+04 / 80
p0 0.01362 ± 1.091e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

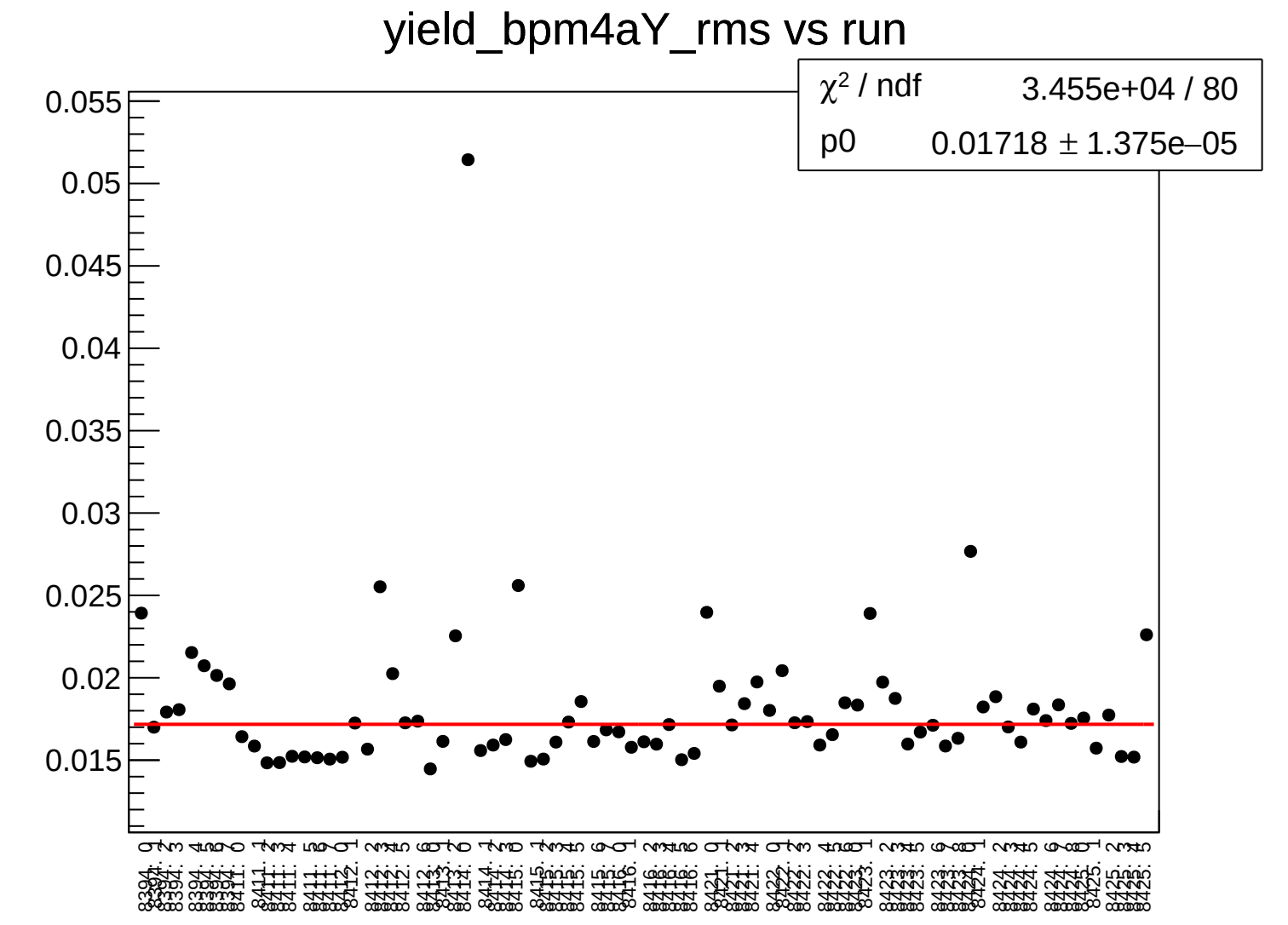

yield_bpm4aX_mean vs run
χ² / ndf 6.113e+04 / 80
p0 −0.6129 ± 5.926e−05
−0.58
−0.6
−0.62
−0.64
−0.66
−0.68
−0.7
pull
Entries 81
Mean 240.3
Std Dev 204.9
80
60
40
20
0
−20
−40
−60

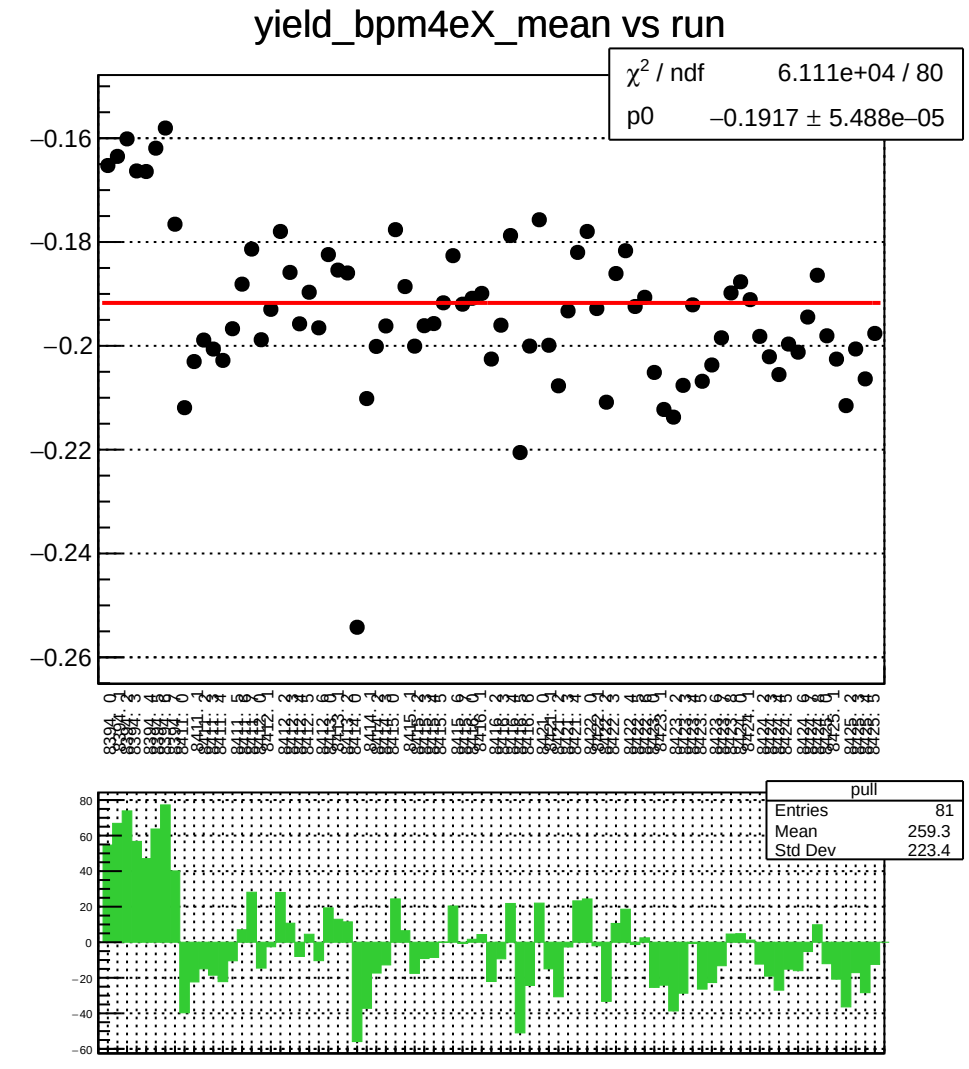

pull1D
Entries 81
Mean 0.8307
Std Dev 4.696
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

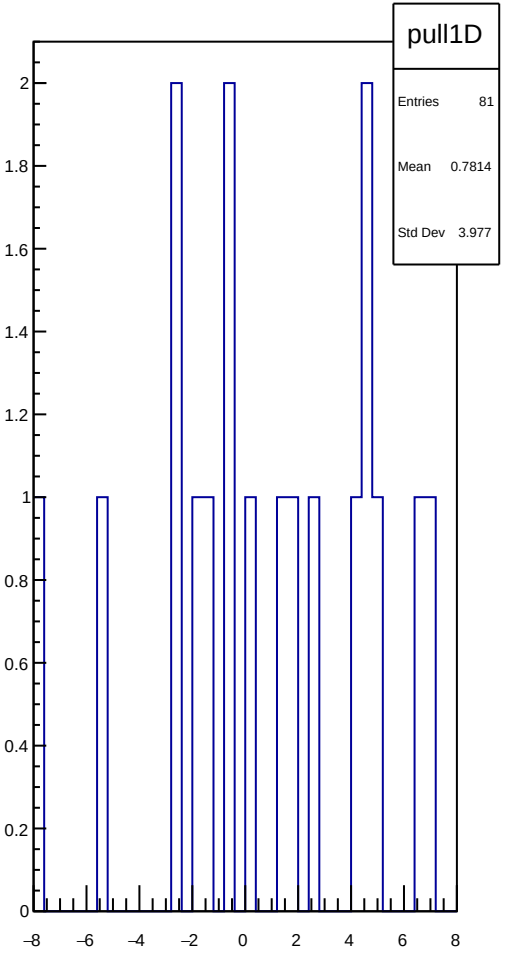

yield_bpm4aX_rms vs run
χ² / ndf 2.362e+04 / 80
p0 0.05252 ± 4.19e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

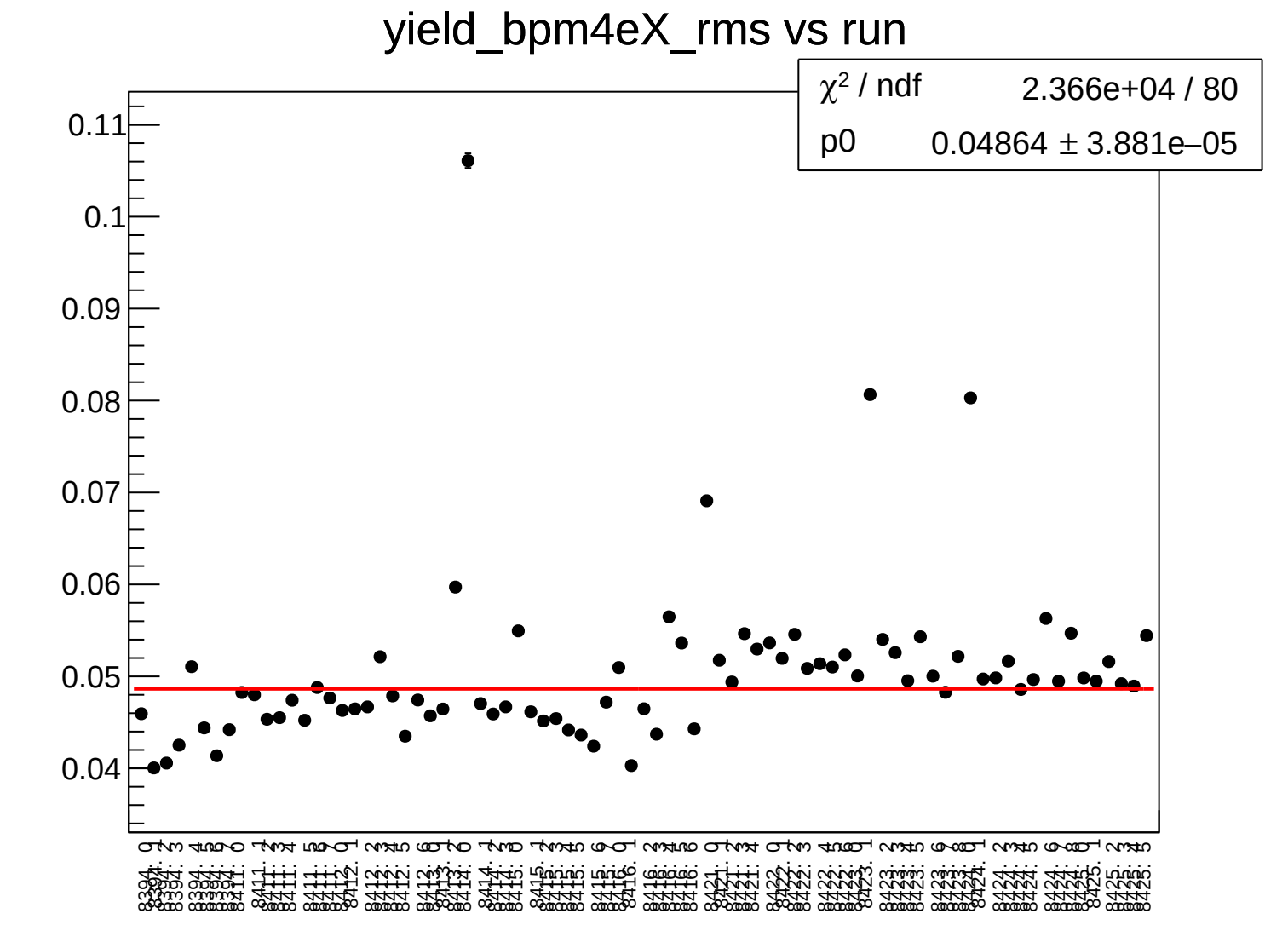

yield_bpm4aY_mean vs run
χ² / ndf 5.382e+04 / 80
p0 0.4737 ± 1.945e−05
0.49
0.485
0.48
0.475
0.47
0.465
0.46
0.455
0.45
0.445
pull
Entries 81
Mean 981.6
Std Dev 934.8
60
40
20
0
−20
−40
−60

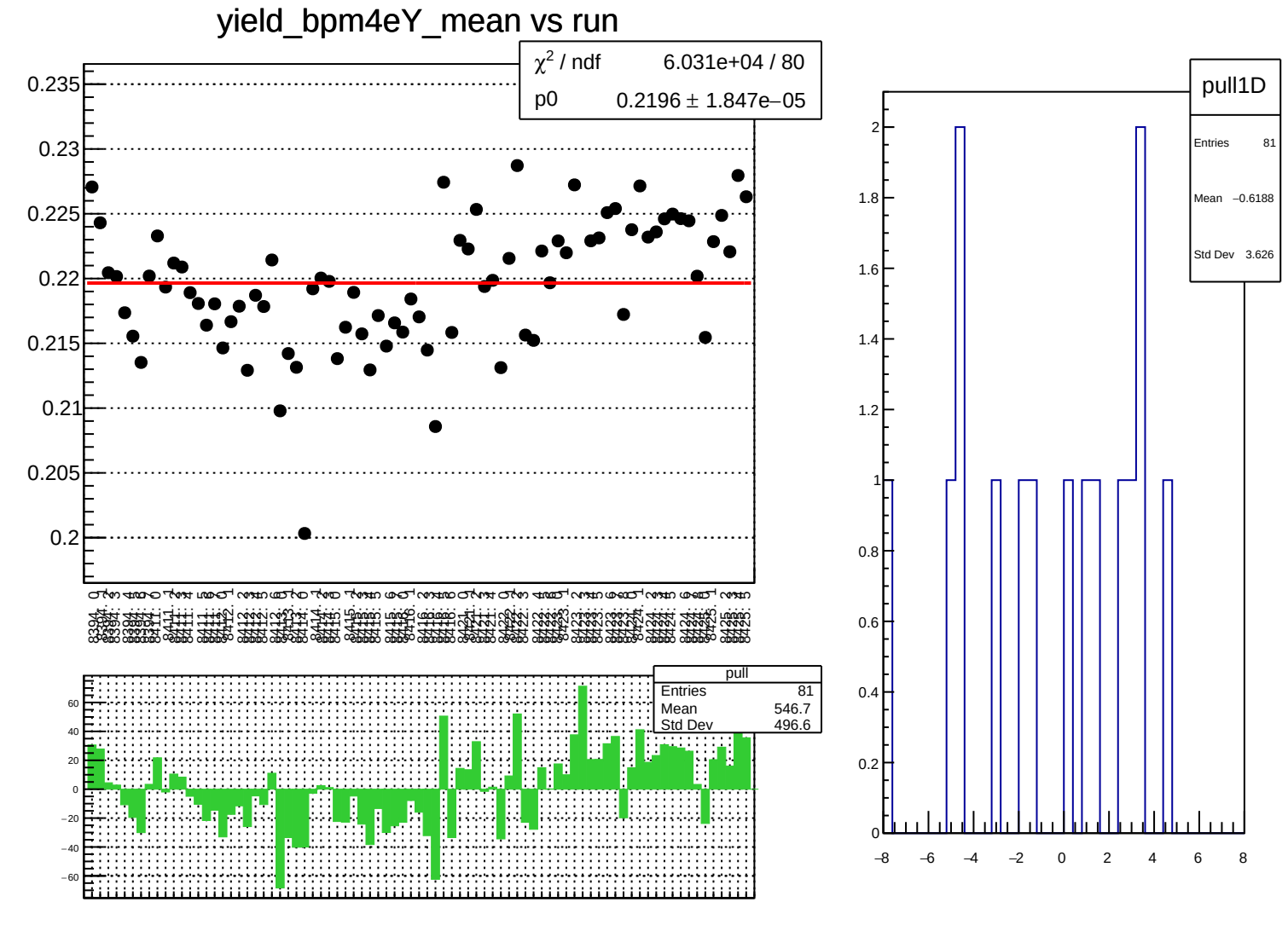

pull1D
Entries 81
Mean −0.09083
Std Dev 4.634
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

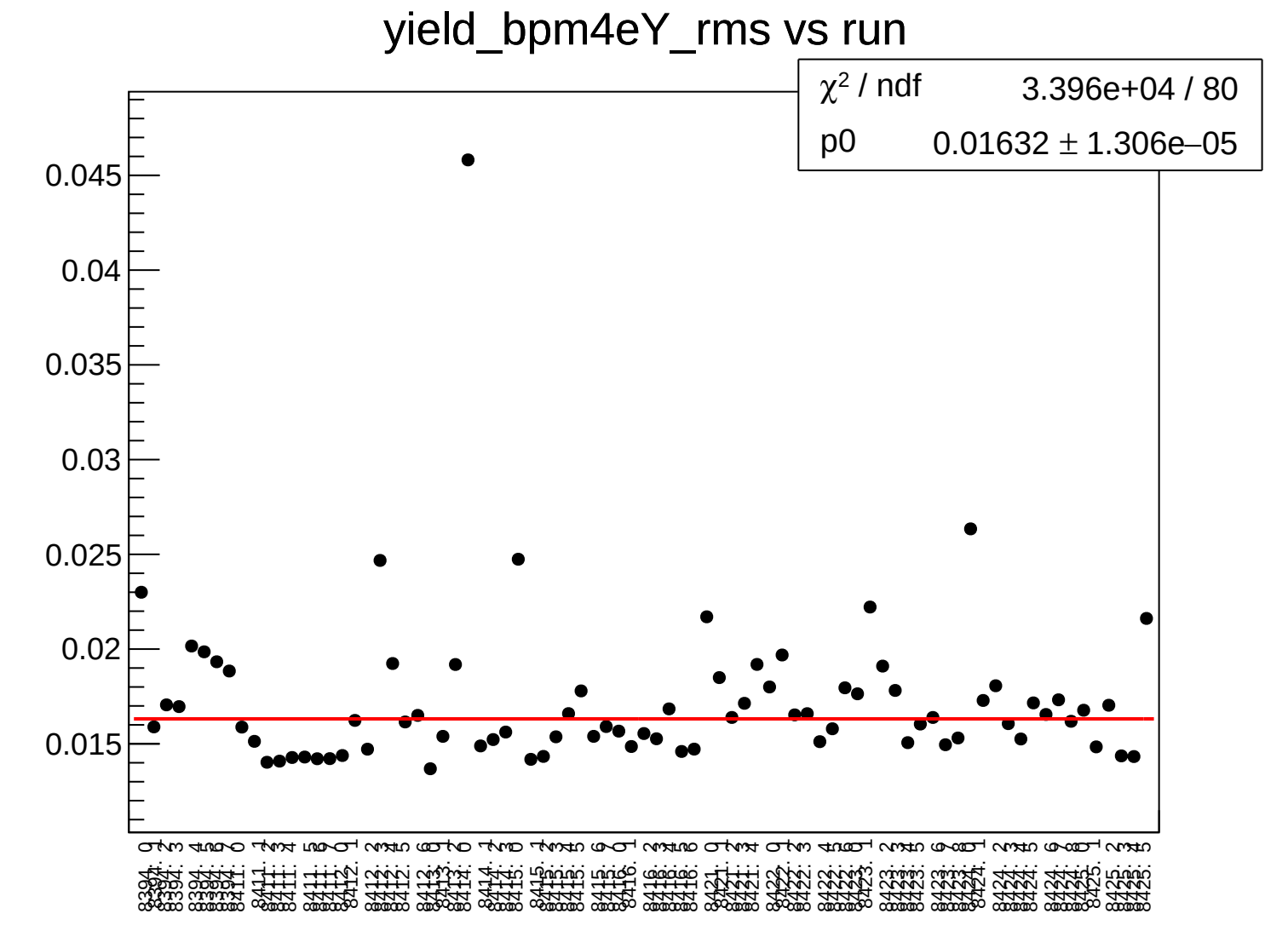

yield_bpm4aY_rms vs run
χ² / ndf 3.455e+04 / 80
p0 0.01718 ± 1.375e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

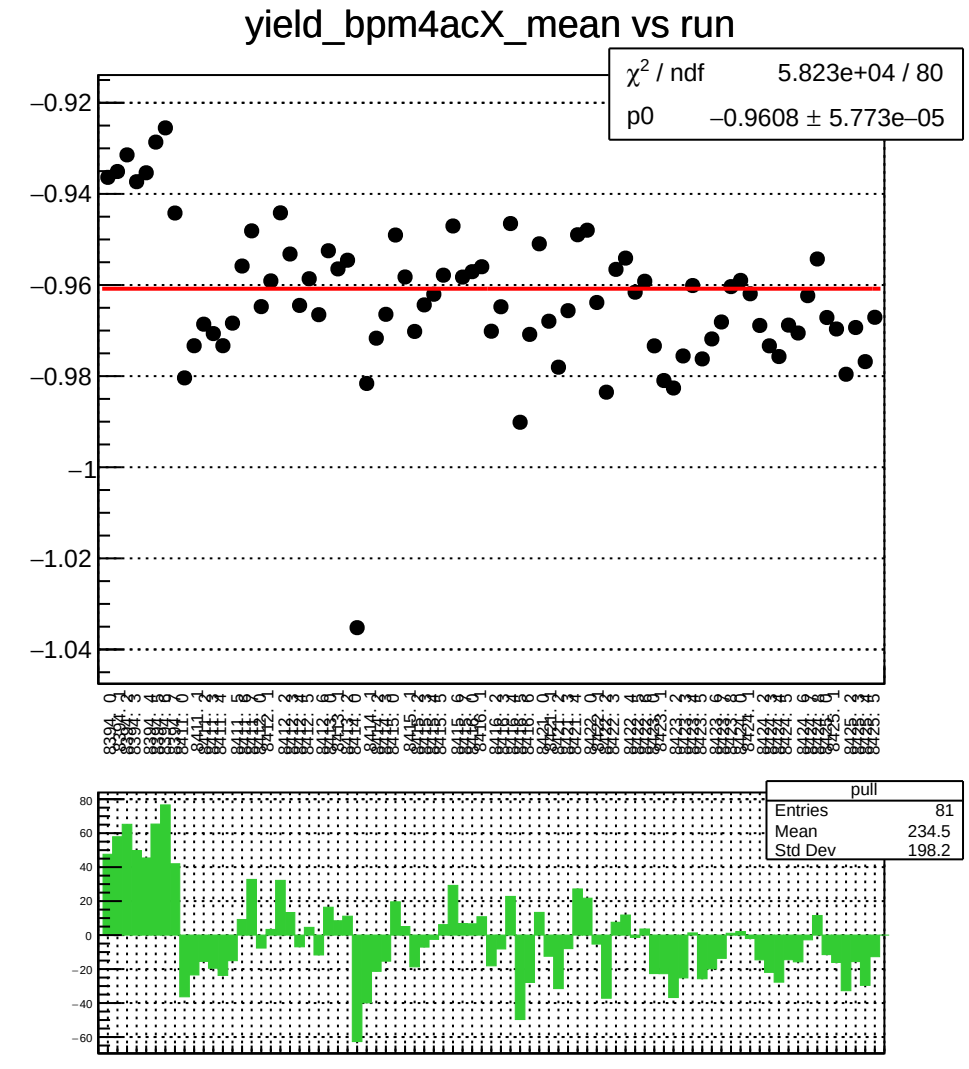

yield_bpm4eX_mean vs run
χ² / ndf 6.111e+04 / 80
p0 −0.1917 ± 5.488e−05
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
pull
Entries 81
Mean 259.3
Std Dev 223.4
80
60
40
20
0
−20
−40
−60

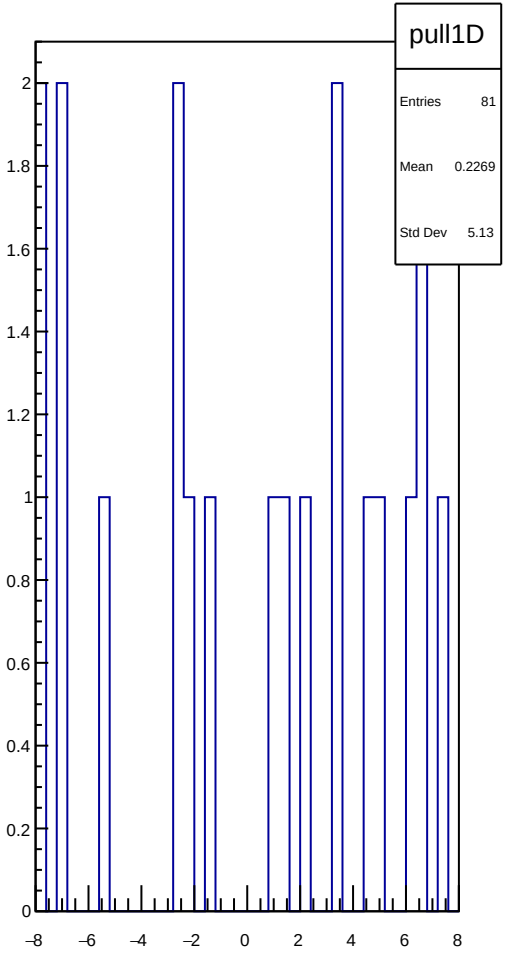

pull1D
Entries 81
Mean 0.7814
Std Dev 3.977
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

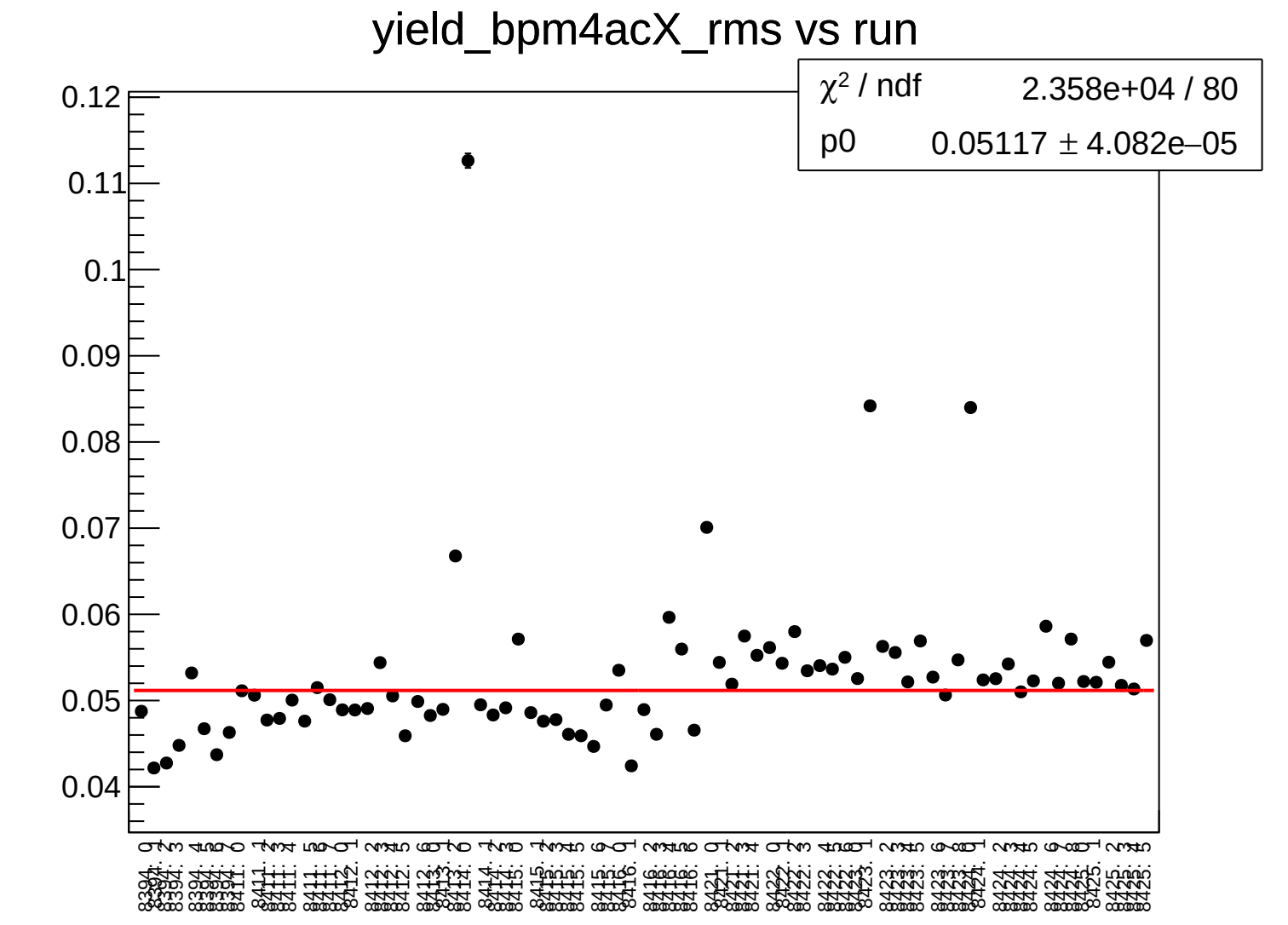

yield_bpm4eX_rms vs run
χ² / ndf 2.366e+04 / 80
p0 0.04864 ± 3.881e–05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

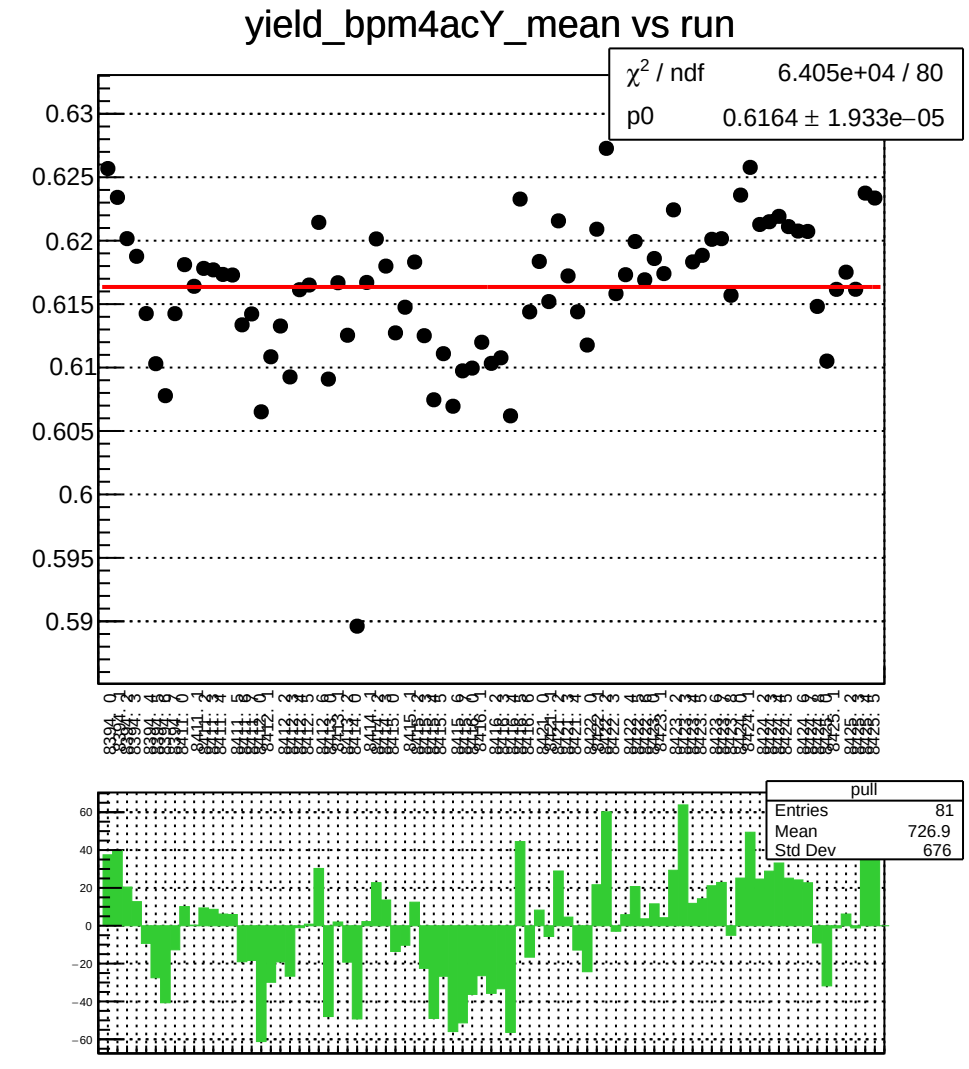

yield_bpm4eY_mean vs run
χ² / ndf 6.031e+04 / 80
p0 0.2196 ± 1.847e−05
0.235
0.23
0.225
0.22
0.215
0.21
0.205
0.2
pull
Entries 81
Mean 546.7
Std Dev 496.6
60
40
20
0
−20
−40
−60
pull1D
Entries 81
Mean −0.6188
Std Dev 3.626
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

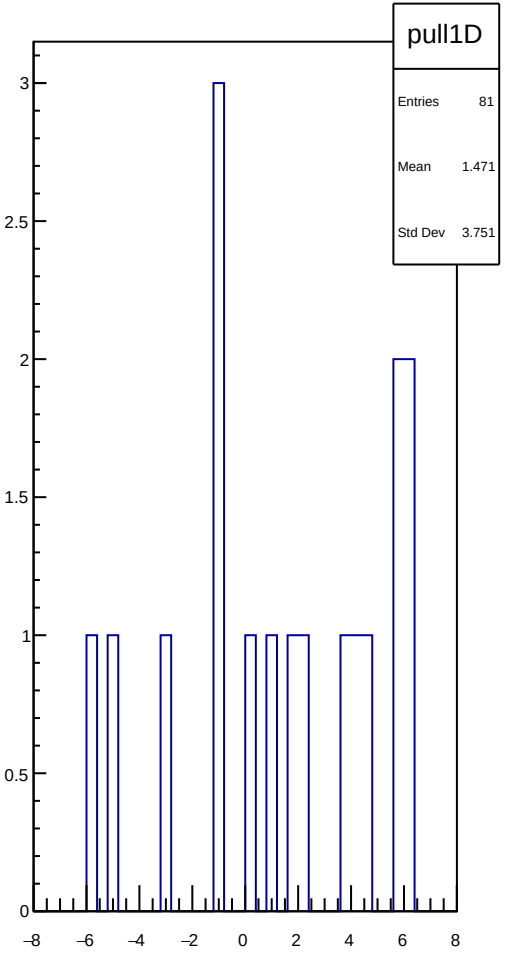

yield_bpm4eY_rms vs run
χ² / ndf 3.396e+04 / 80
p0 0.01632 ± 1.306e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

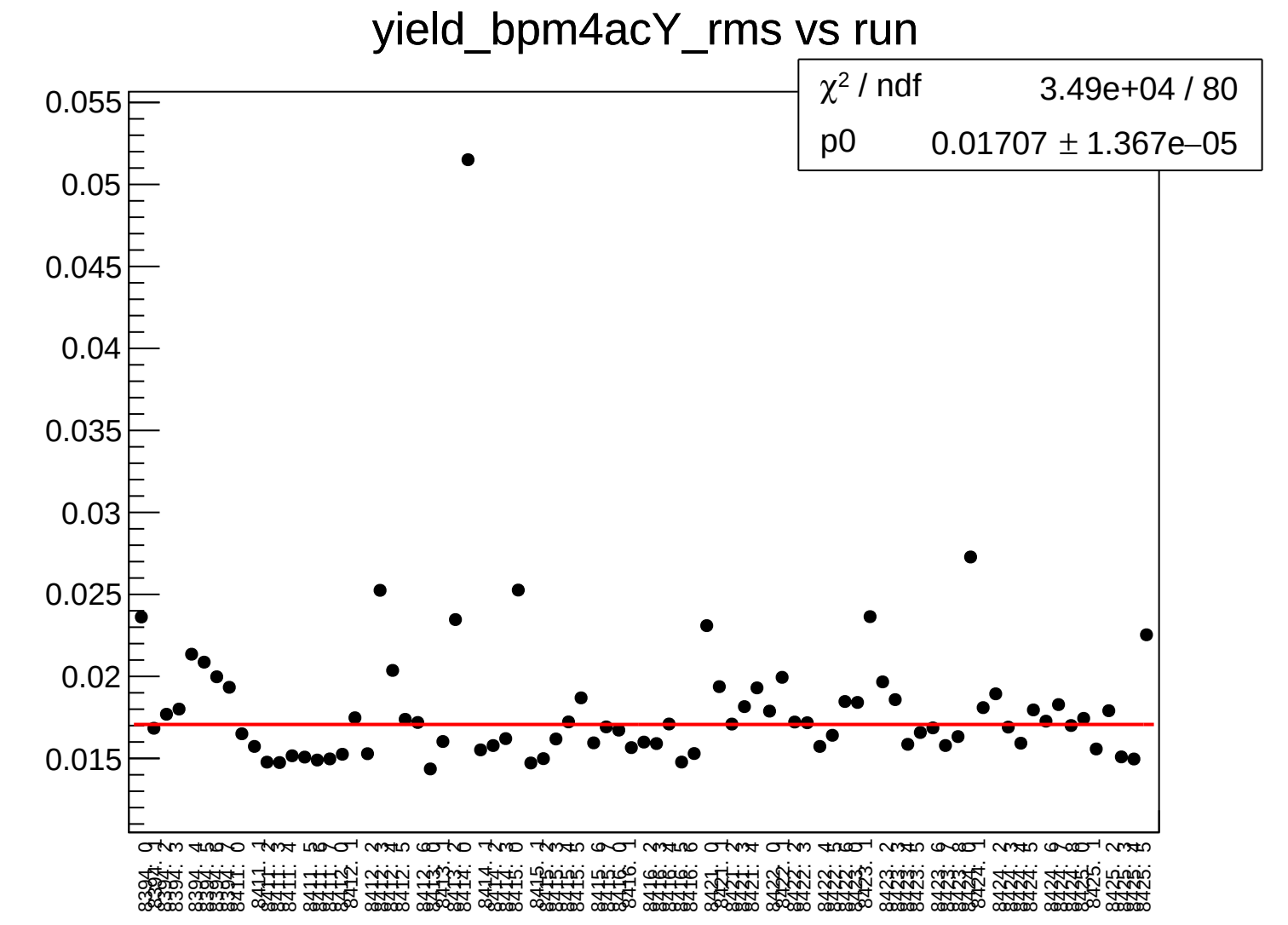

yield_bpm4acX_mean vs run
χ² / ndf 5.823e+04 / 80
p0 −0.9608 ± 5.773e−05
−0.92
−0.94
−0.96
−0.98
−1
−1.02
−1.04
pull
Entries 81
Mean 234.5
Std Dev 198.2
80
60
40
20
0
−20
−40
−60

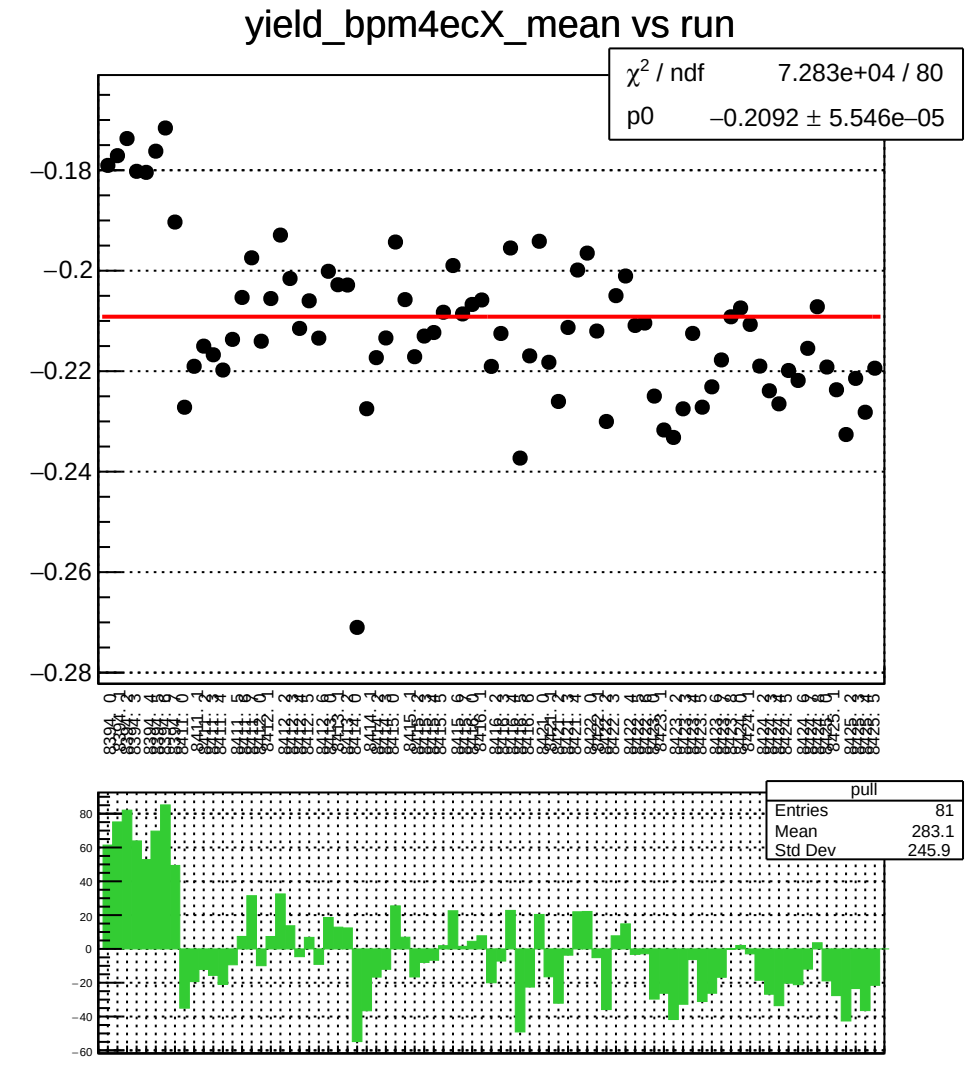

pull1D
Entries 81
Mean 0.2269
Std Dev 5.13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

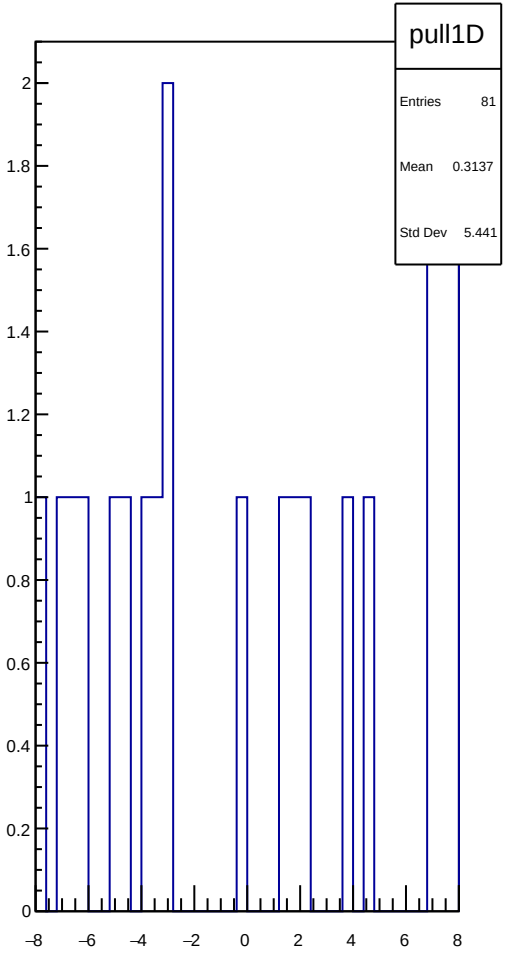

yield_bpm4acX_rms vs run
χ² / ndf 2.358e+04 / 80
p0 0.05117 ± 4.082e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

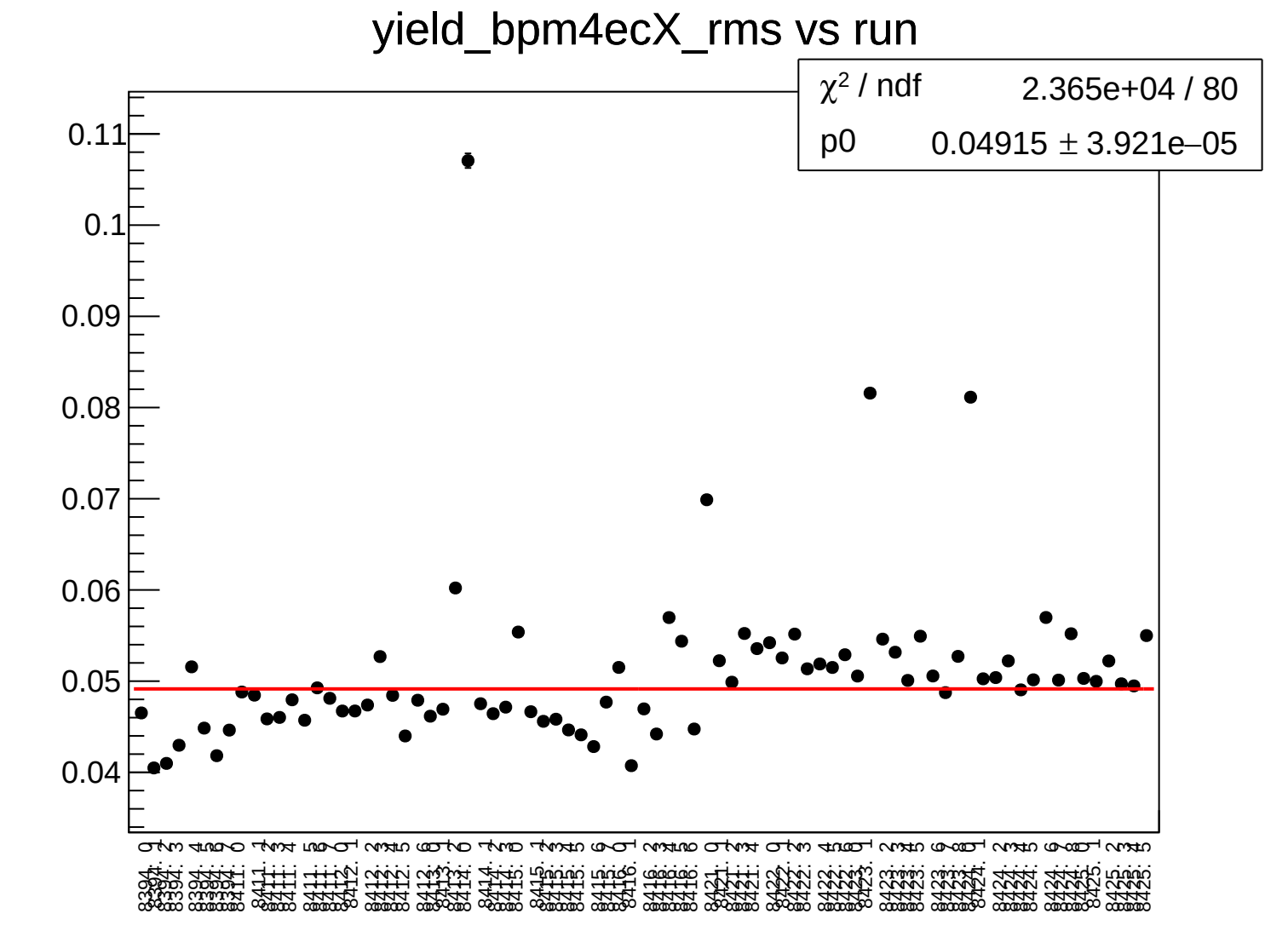

yield_bpm4acY_mean vs run
χ² / ndf 6.405e+04 / 80
p0 0.6164 ± 1.933e−05
0.63
0.625
0.62
0.615
0.61
0.605
0.6
0.595
0.59
pull
Entries 81
Mean 726.9
Std Dev 676
60
40
20
0
−20
−40
−60

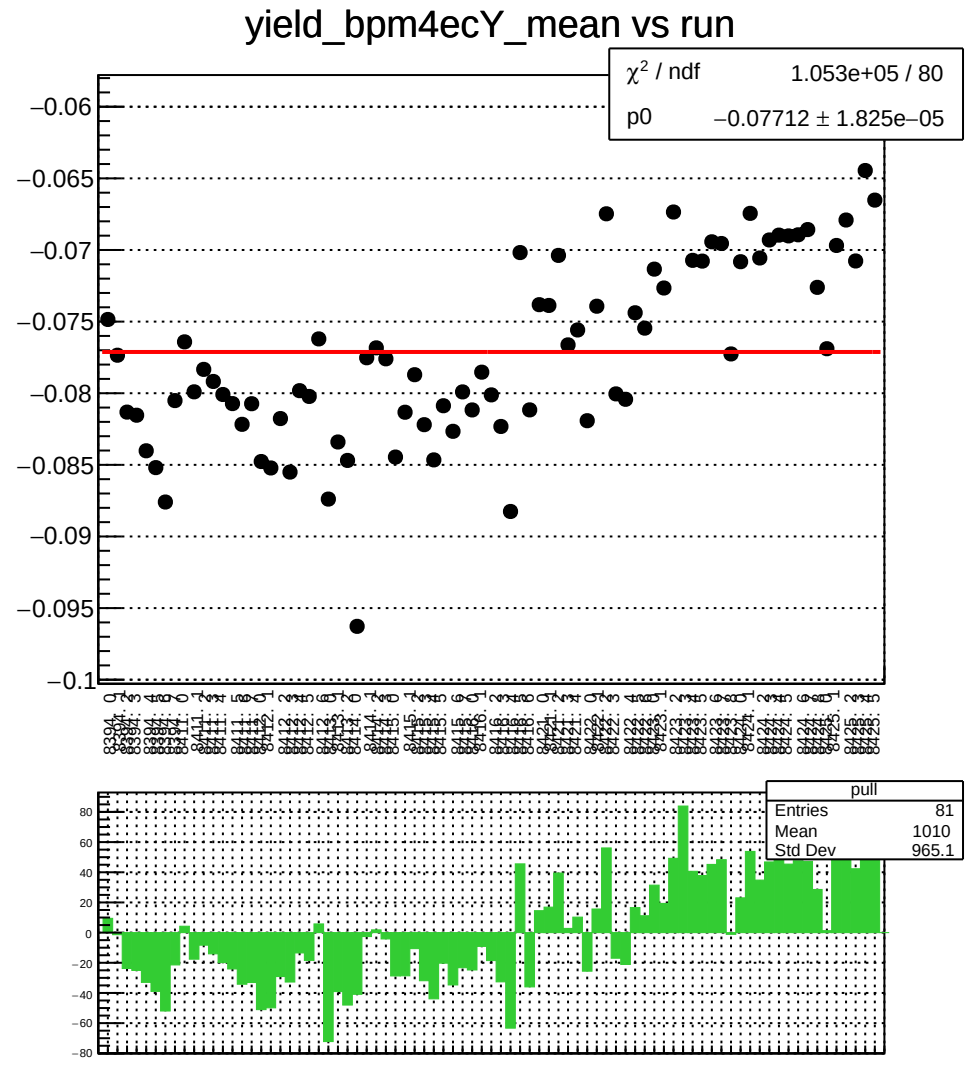

pull1D
Entries 81
Mean 1.471
Std Dev 3.751
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

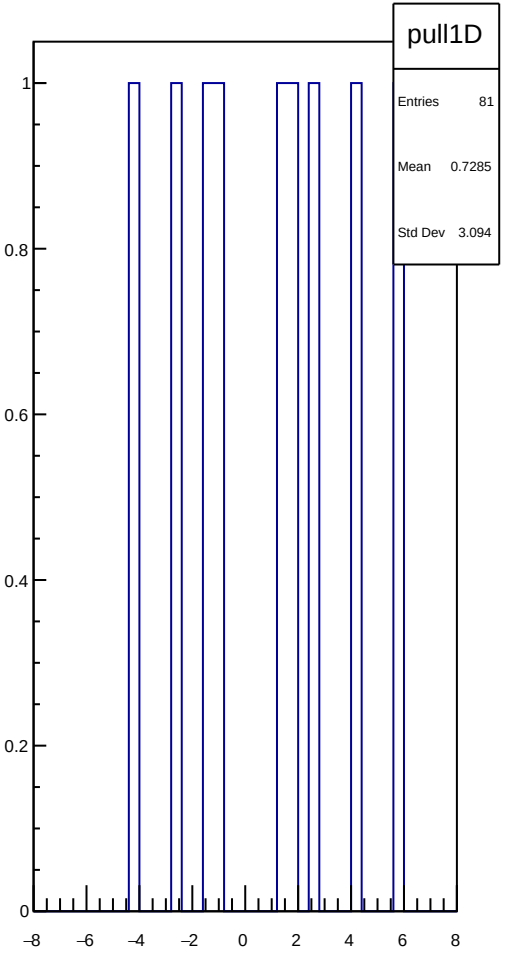

yield_bpm4acY_rms vs run
χ² / ndf 3.49e+04 / 80
p0 0.01707 ± 1.367e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

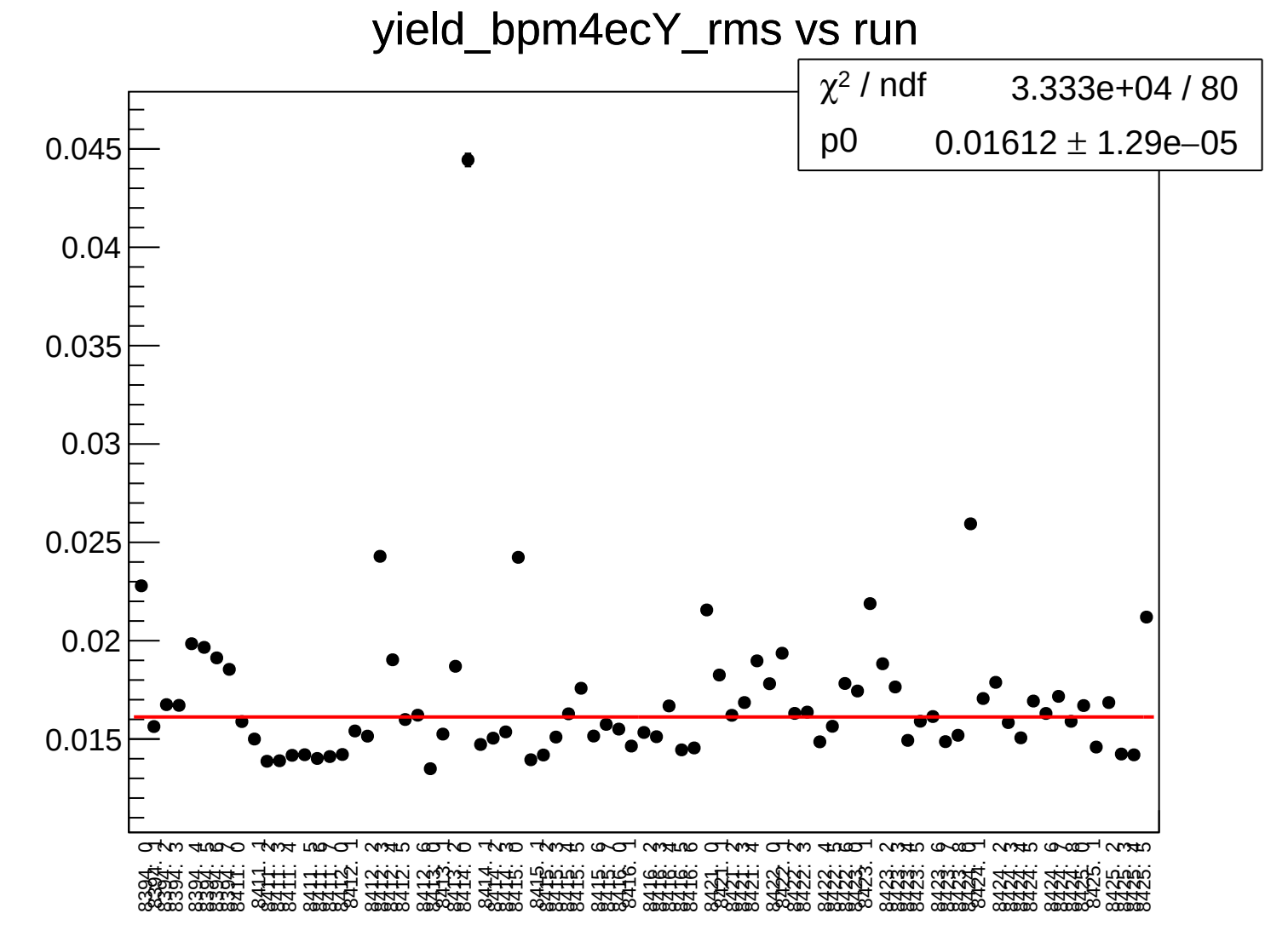

yield_bpm4ecX_mean vs run
χ² / ndf 7.283e+04 / 80
p0 −0.2092 ± 5.546e−05
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
pull
Entries 81
Mean 283.1
Std Dev 245.9
80
60
40
20
0
−20
−40
−60

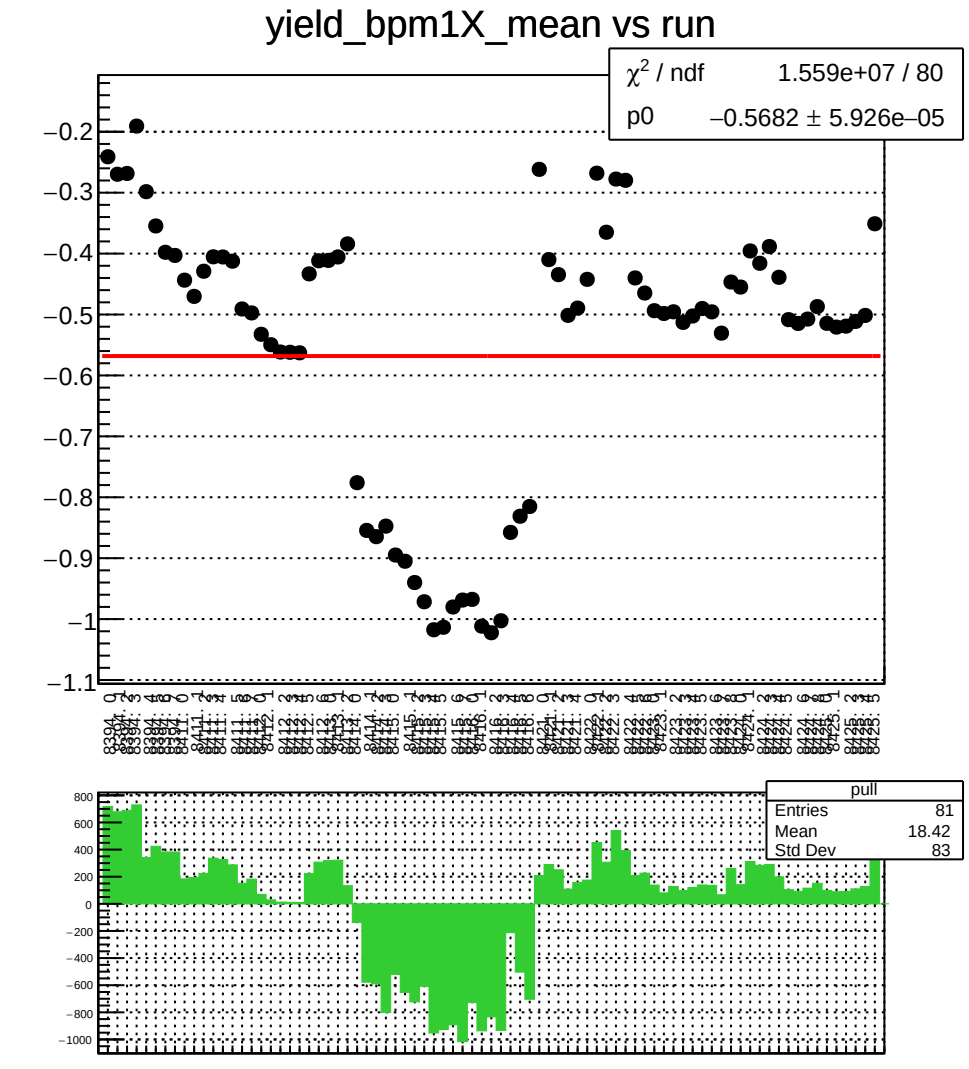

pull1D
Entries 81
Mean 0.3137
Std Dev 5.441
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

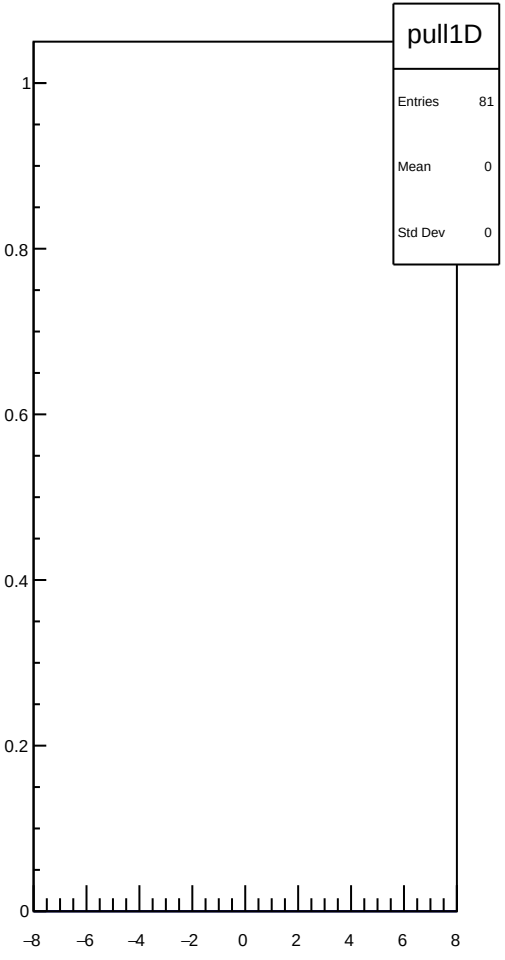

yield_bpm4ecX_rms vs run
χ² / ndf 2.365e+04 / 80
p0 0.04915 ± 3.921e–05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

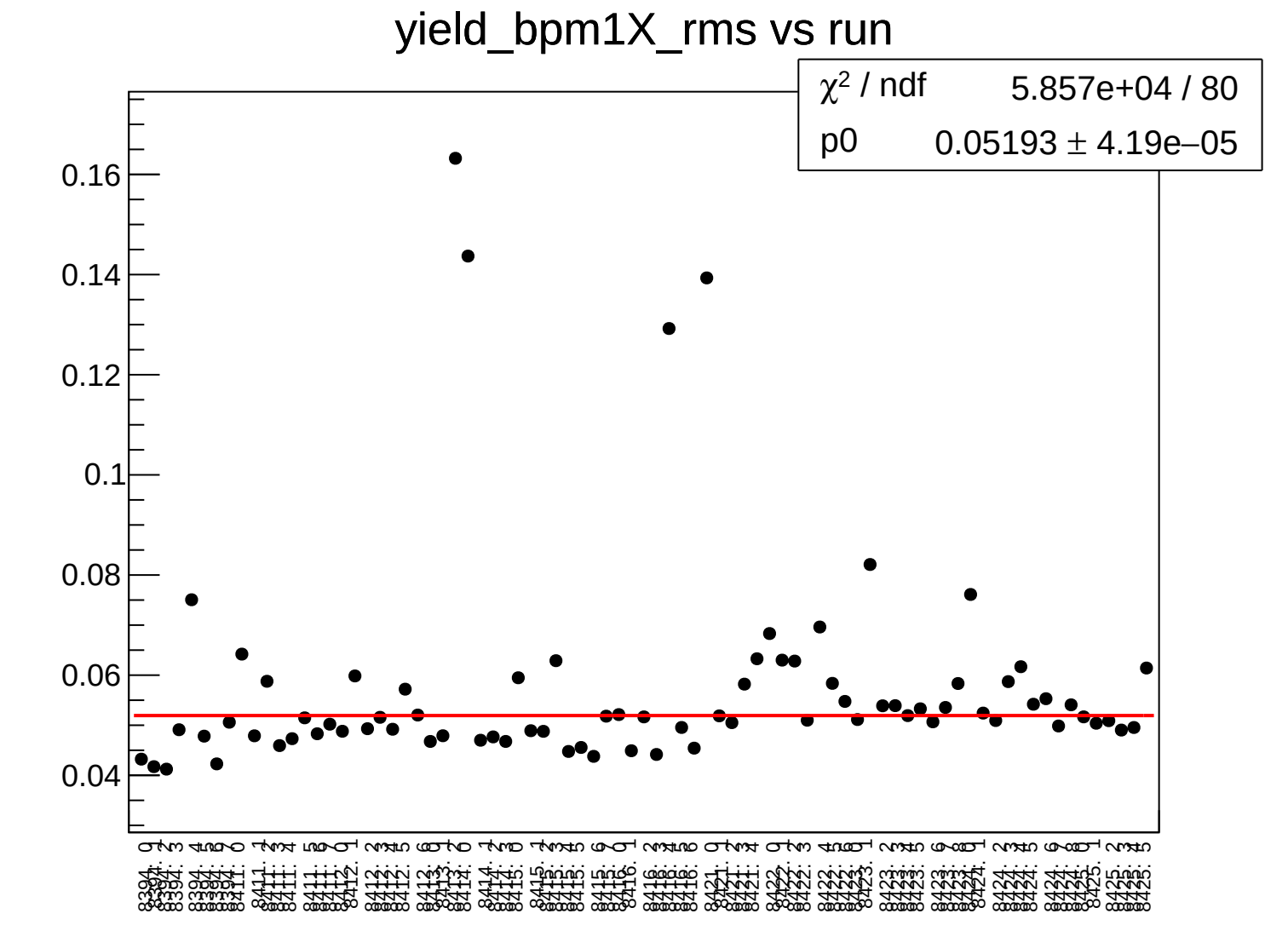

yield_bpm4ecY_mean vs run
χ² / ndf 1.053e+05 / 80
p0 −0.07712 ± 1.825e−05
−0.06
−0.065
−0.07
−0.075
−0.08
−0.085
−0.09
−0.095
−0.1
pull
Entries 81
Mean 1010
Std Dev 965.1
80
60
40
20
0
−20
−40
−60
−80

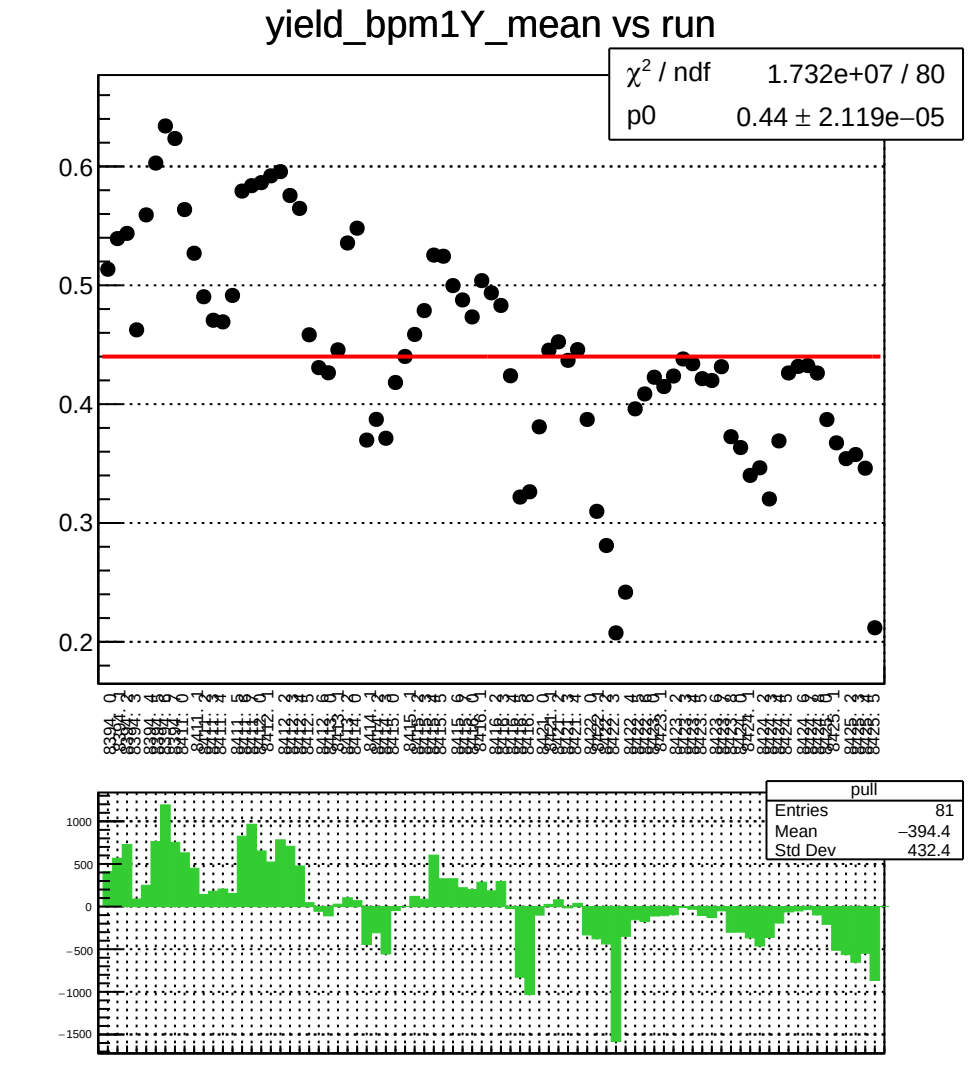

pull1D
Entries 81
Mean 0.7285
Std Dev 3.094
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

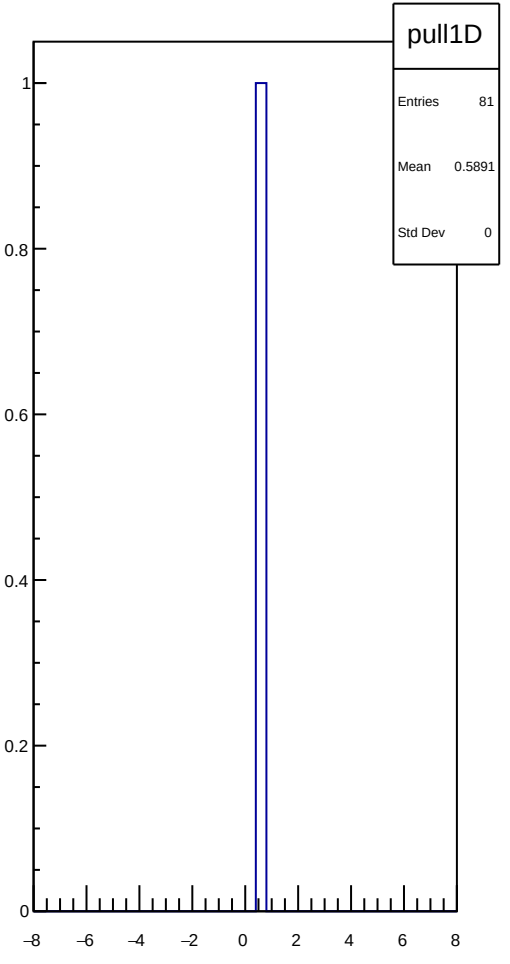

yield_bpm4ecY_rms vs run
χ² / ndf 3.333e+04 / 80
p0 0.01612 ± 1.29e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015


yield_bpm1X_mean vs run
χ² / ndf 1.559e+07 / 80
p0 −0.5682 ± 5.926e−05
pull
Entries 81
Mean 18.42
Std Dev 83

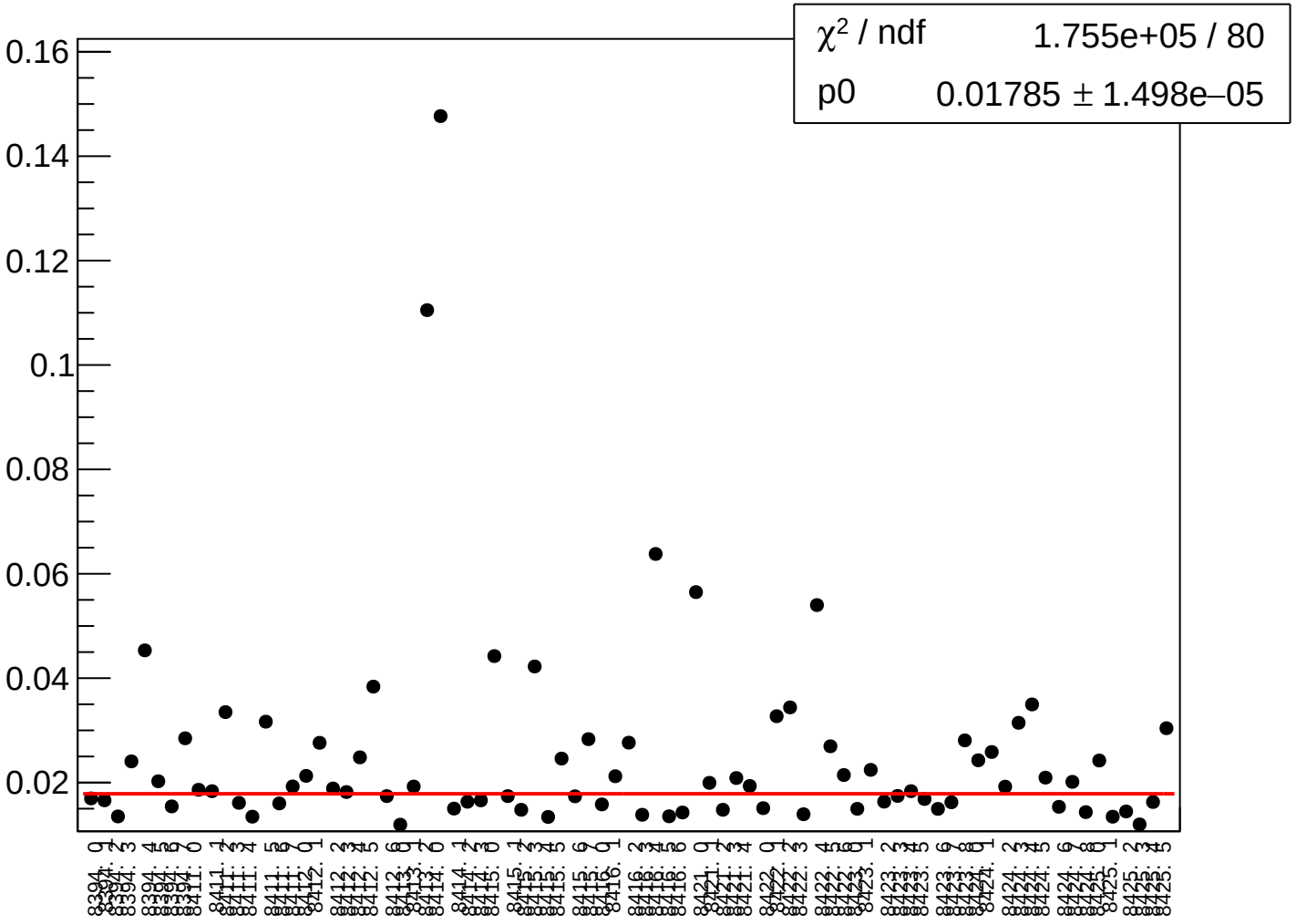

pull1D
Entries 81
Mean 0
Std Dev 0

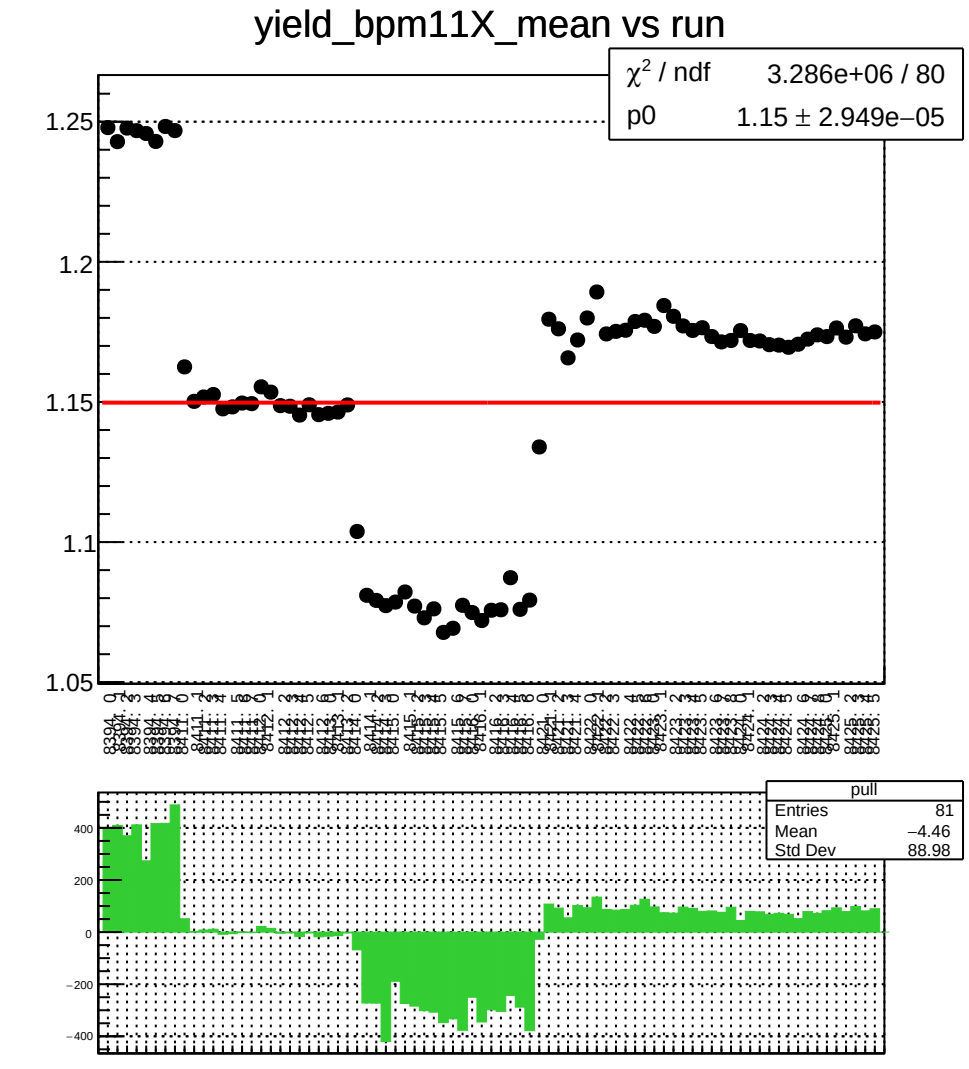

yield_bpm1X_rms vs run
χ² / ndf 5.857e+04 / 80
p0 0.05193 ± 4.19e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

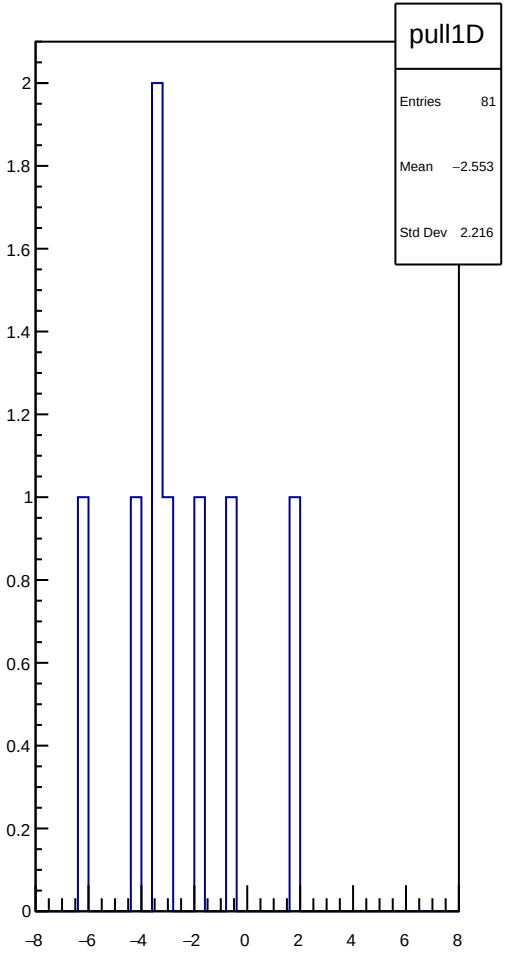

yield_bpm1Y_mean vs run
χ² / ndf 1.732e+07 / 80
p0 0.44 ± 2.119e−05
0.6
0.5
0.4
0.3
0.2
pull
Entries 81
Mean −394.4
Std Dev 432.4
1000
500
0
−500
−1000
−1500

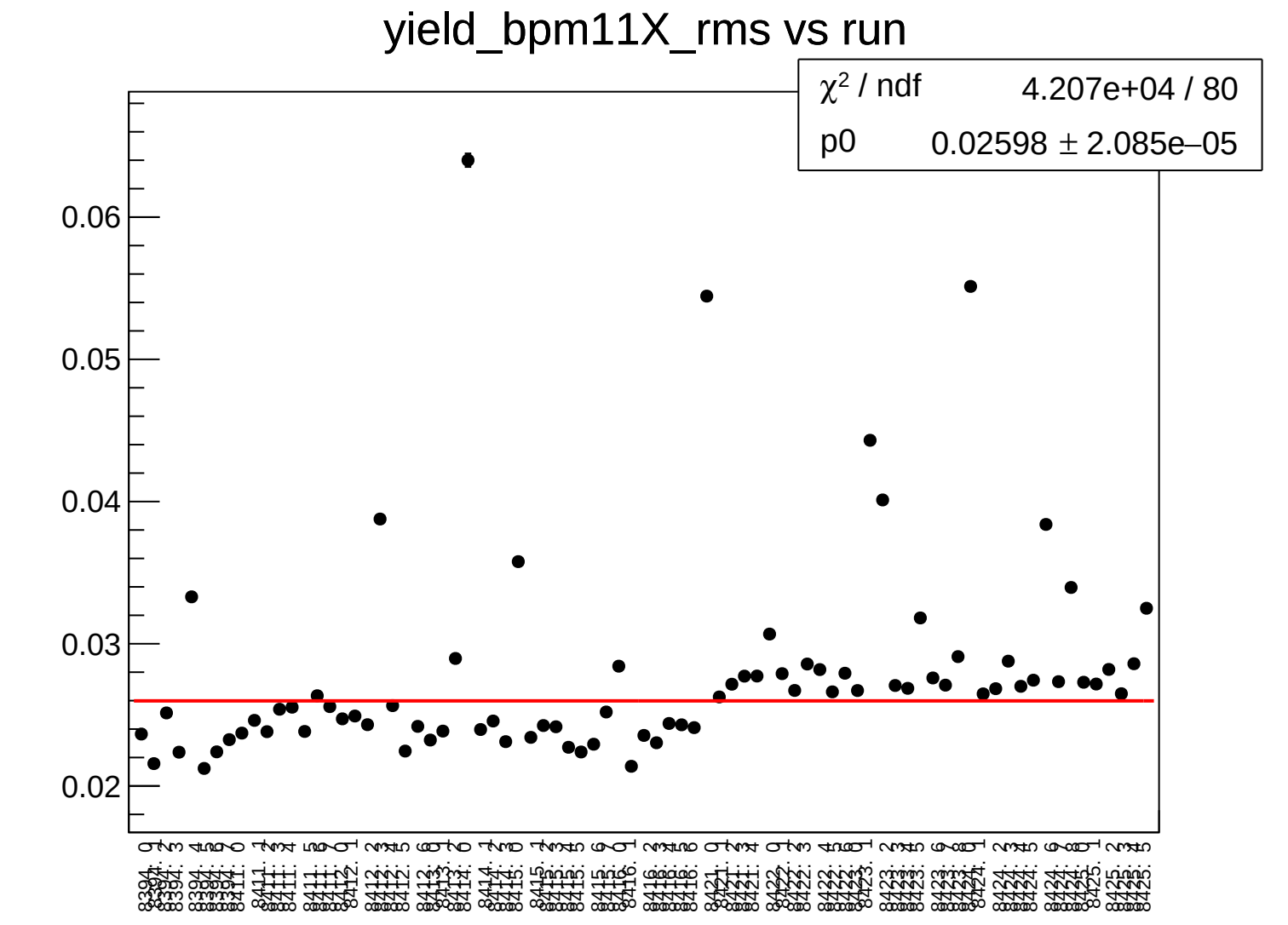

pull1D
Entries 81
Mean 0.5891
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

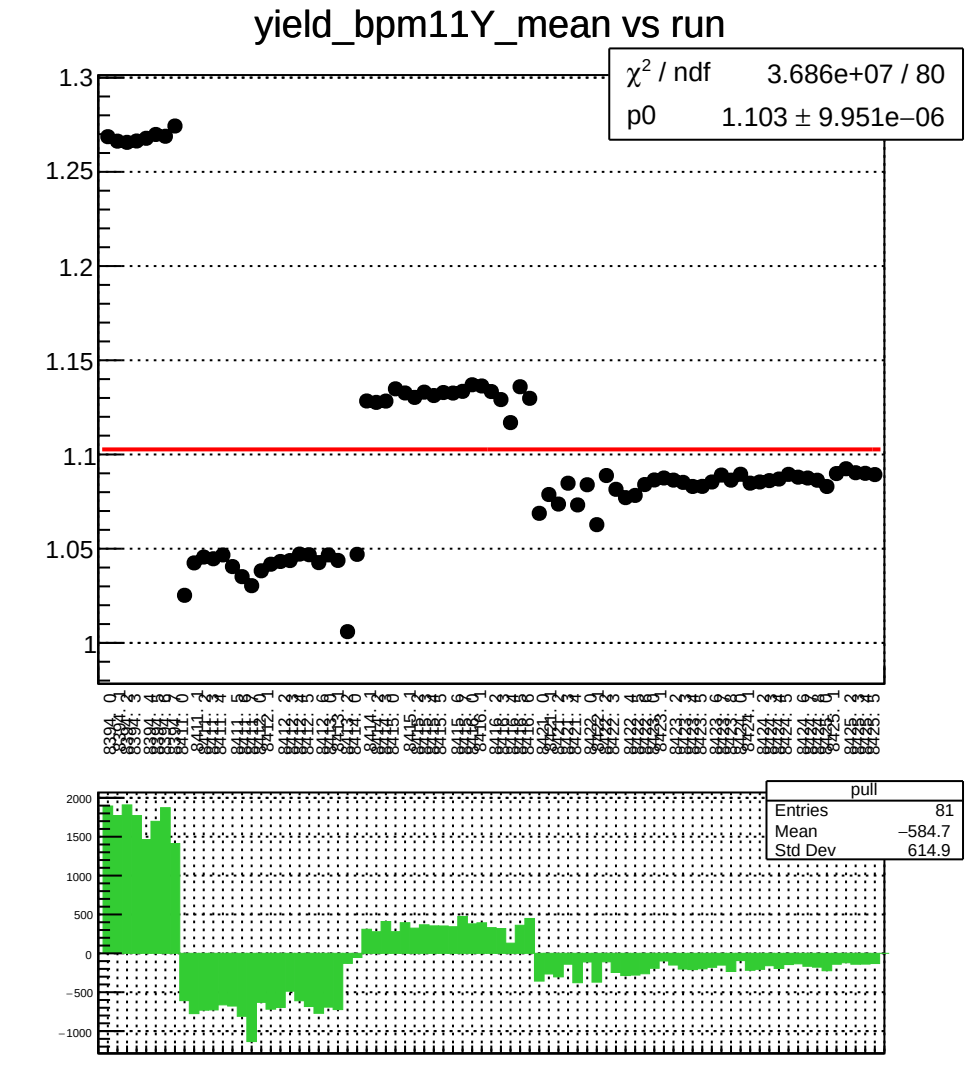
yield_bpm1Y_rms vs run

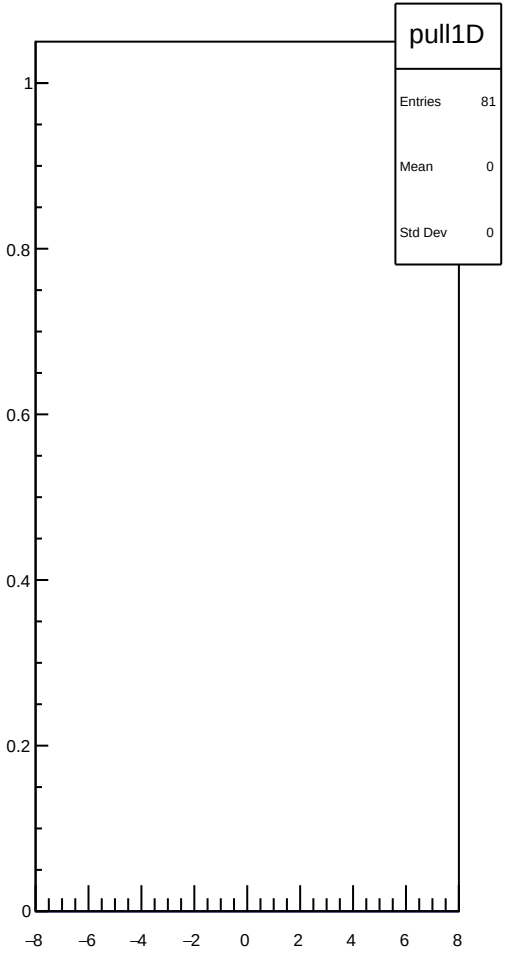


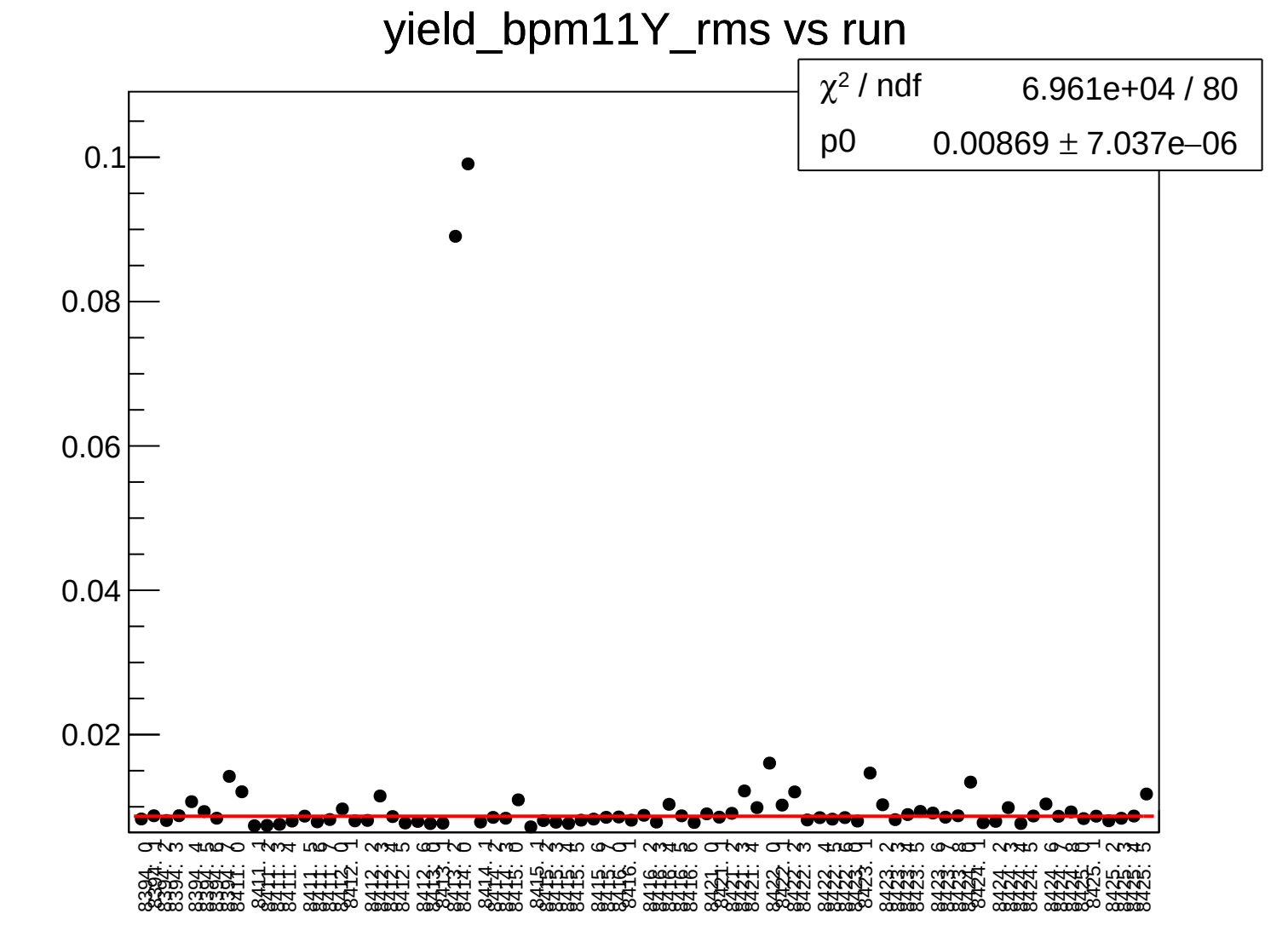

yield_bpm11X_mean vs run
χ² / ndf 3.286e+06 / 80
p0 1.15 ± 2.949e−05
1.25
1.2
1.15
1.1
1.05
pull
Entries 81
Mean −4.46
Std Dev 88.98
400
200
0
−200
−400

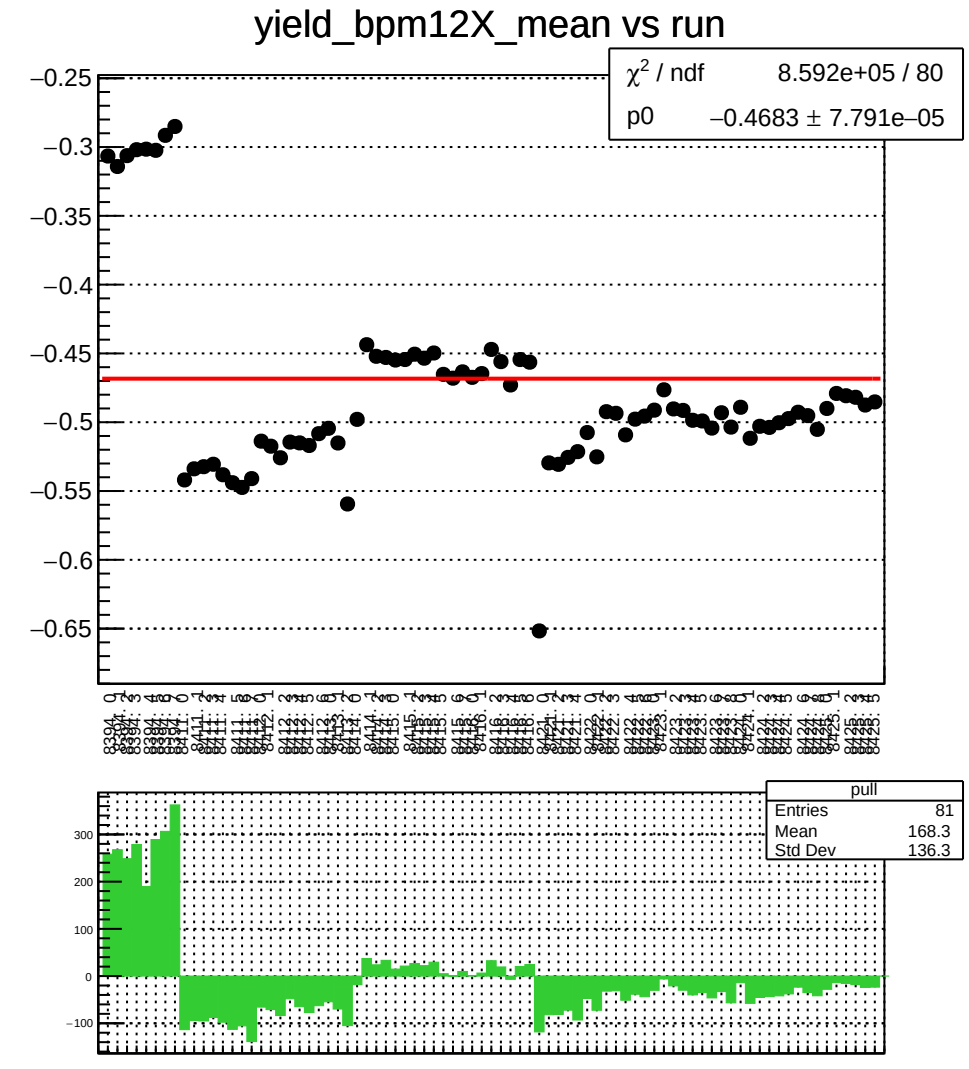

pull1D
Entries 81
Mean −2.553
Std Dev 2.216
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

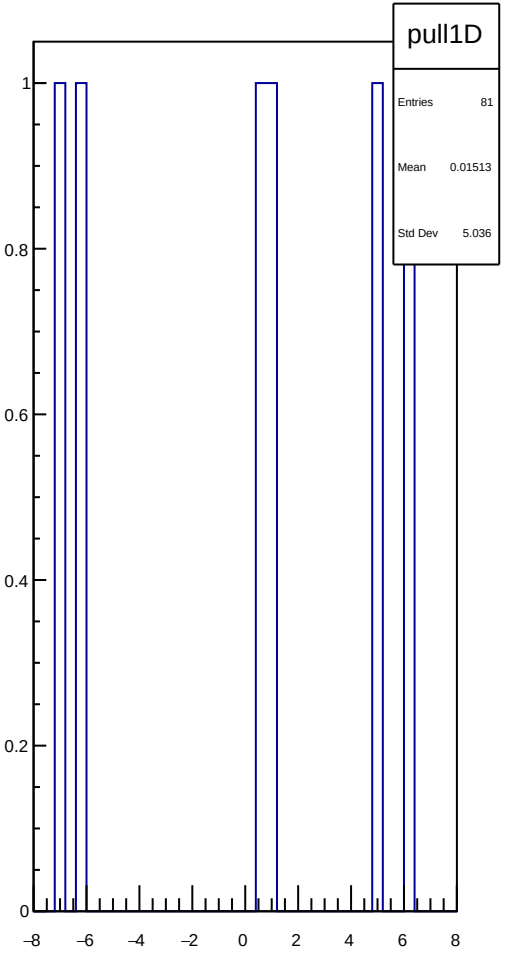

yield_bpm11X_rms vs run
χ² / ndf 4.207e+04 / 80
p0 0.02598 ± 2.085e–05
0.06
0.05
0.04
0.03
0.02

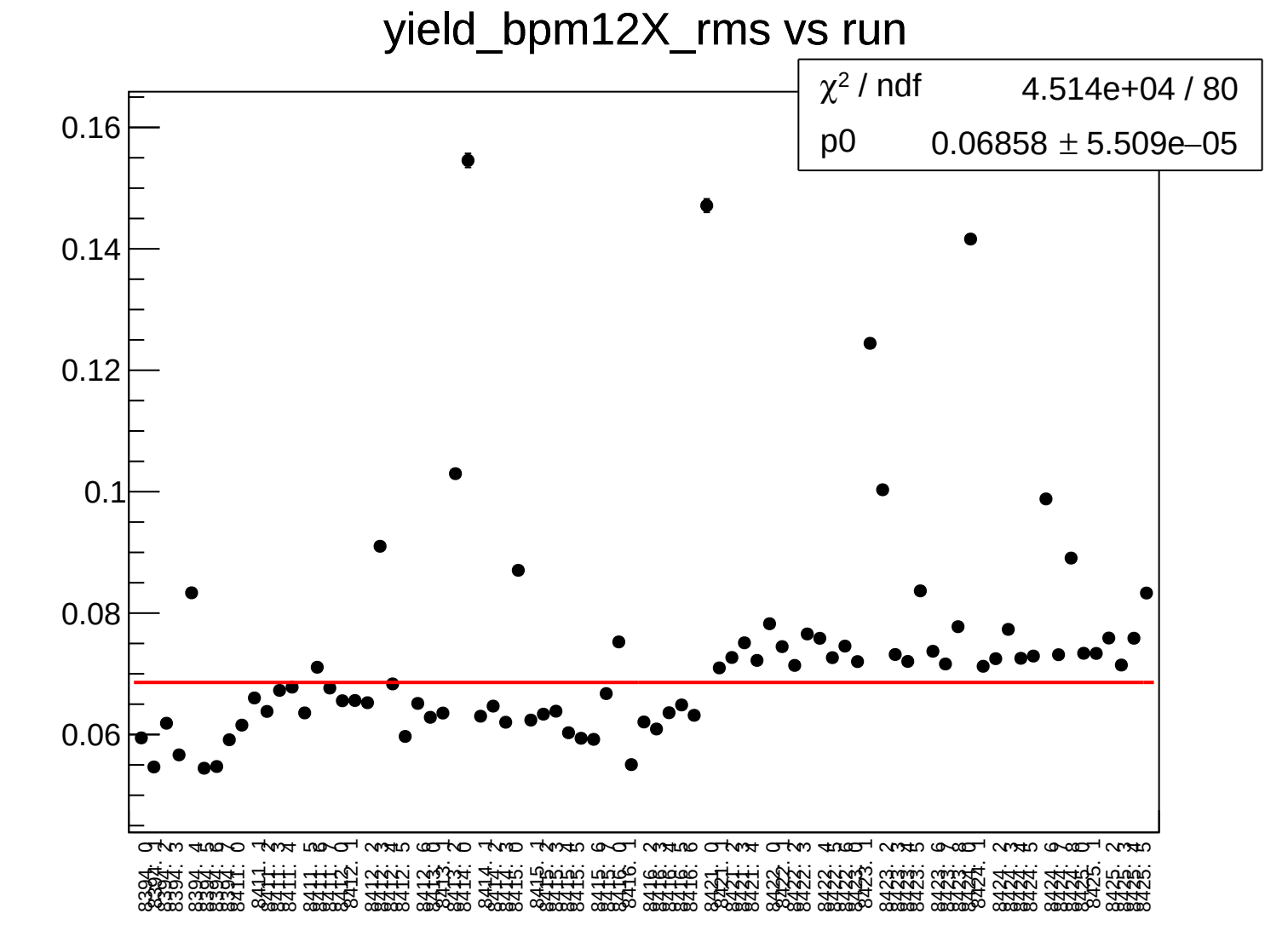

yield_bpm11Y_mean vs run
χ² / ndf 3.686e+07 / 80
p0 1.103 ± 9.951e−06
pull
Entries 81
Mean −584.7
Std Dev 614.9

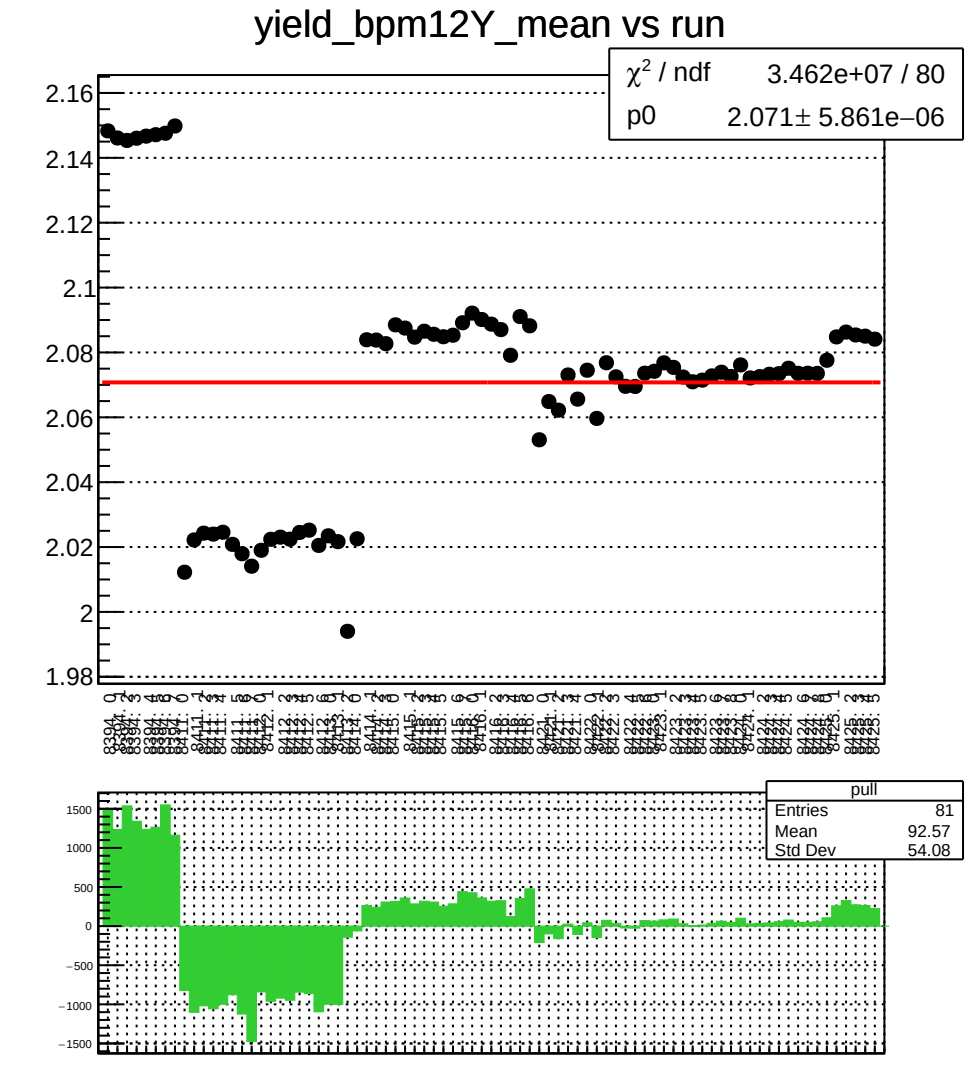

pull1D
Entries 81
Mean 0
Std Dev 0

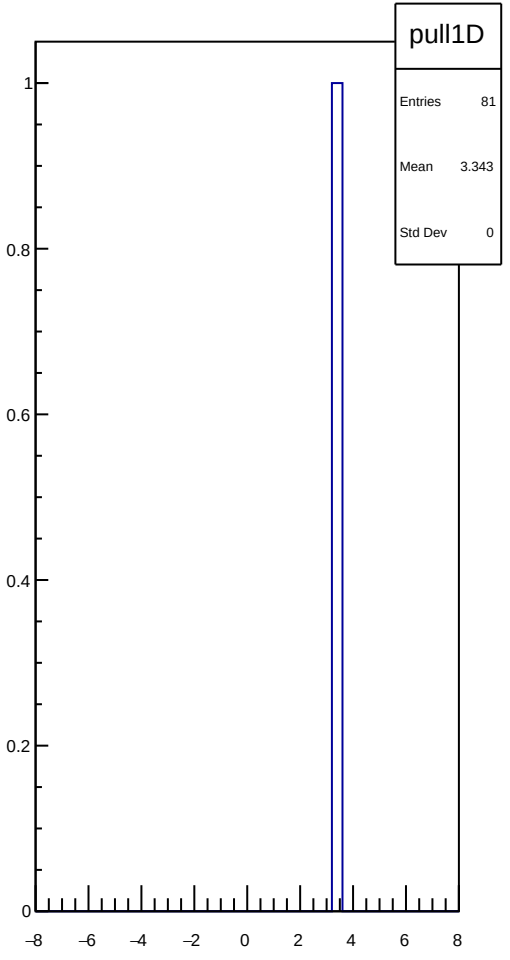

yield_bpm11Y_rms vs run
χ² / ndf 6.961e+04 / 80
p0 0.00869 ± 7.037e–06
0.1
0.08
0.06
0.04
0.02

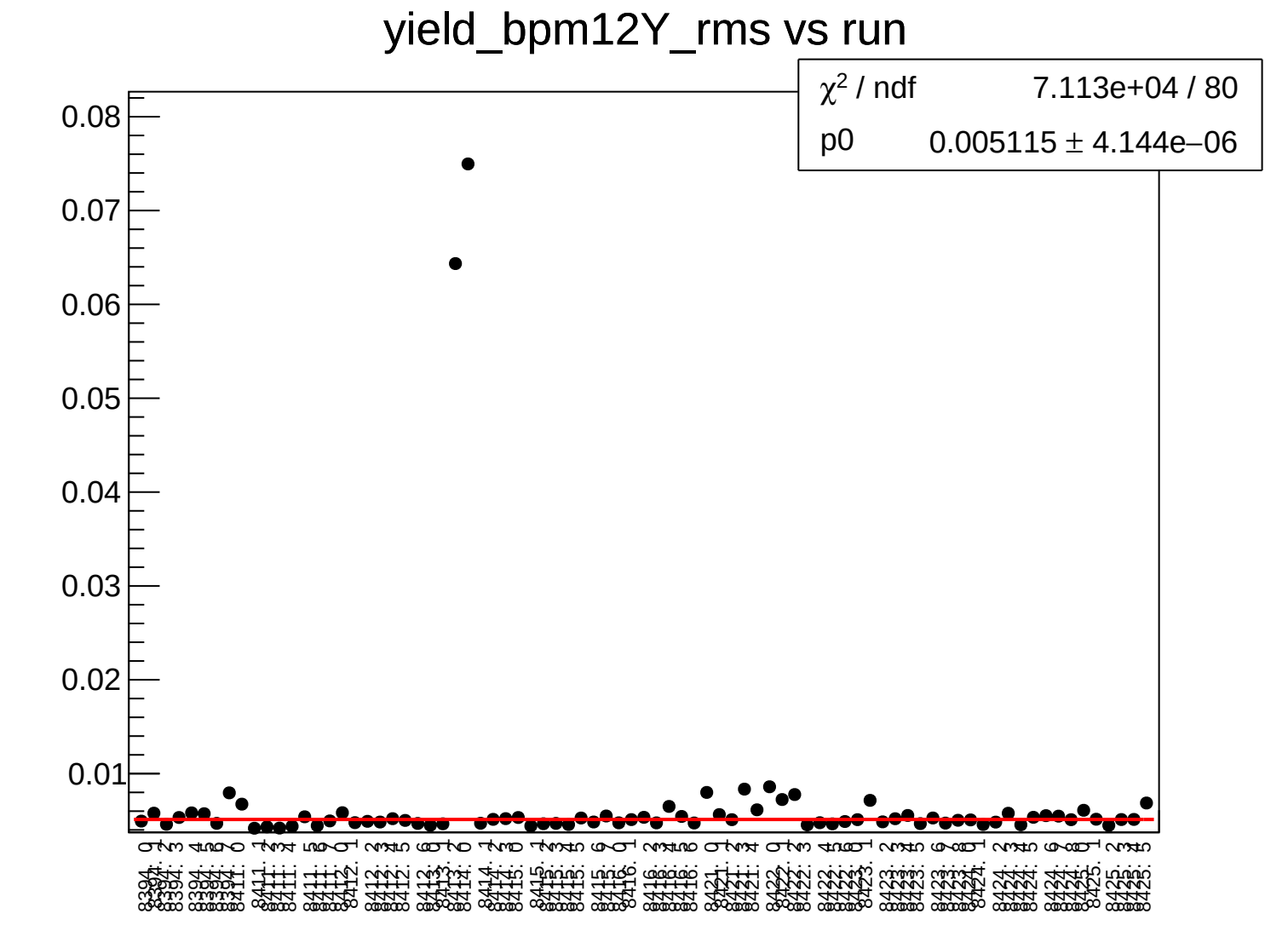

yield_bpm12X_mean vs run
χ² / ndf 8.592e+05 / 80
p0 −0.4683 ± 7.791e−05
pull
Entries 81
Mean 168.3
Std Dev 136.3

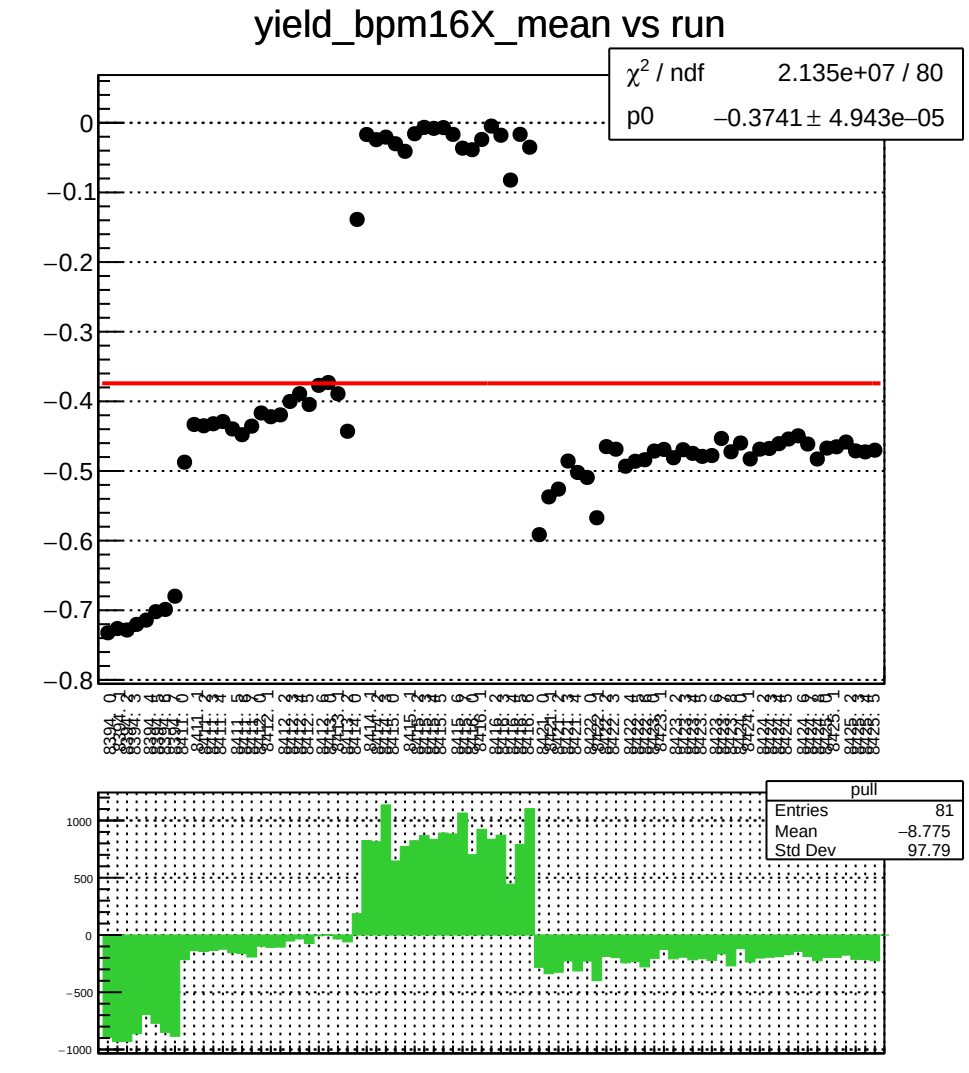

pull1D
Entries 81
Mean 0.01513
Std Dev 5.036

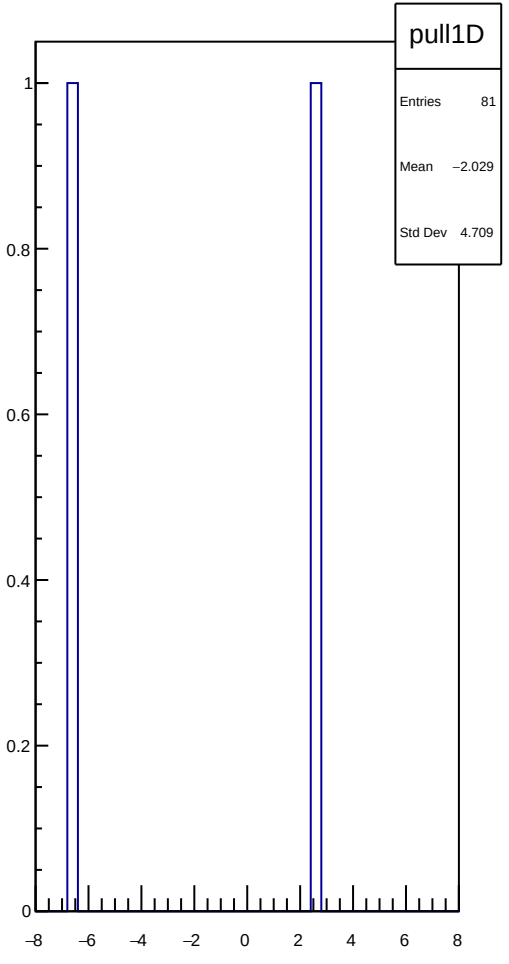

yield_bpm12X_rms vs run
χ² / ndf 4.514e+04 / 80
p0 0.06858 ± 5.509e−05
0.16
0.14
0.12
0.1
0.08
0.06

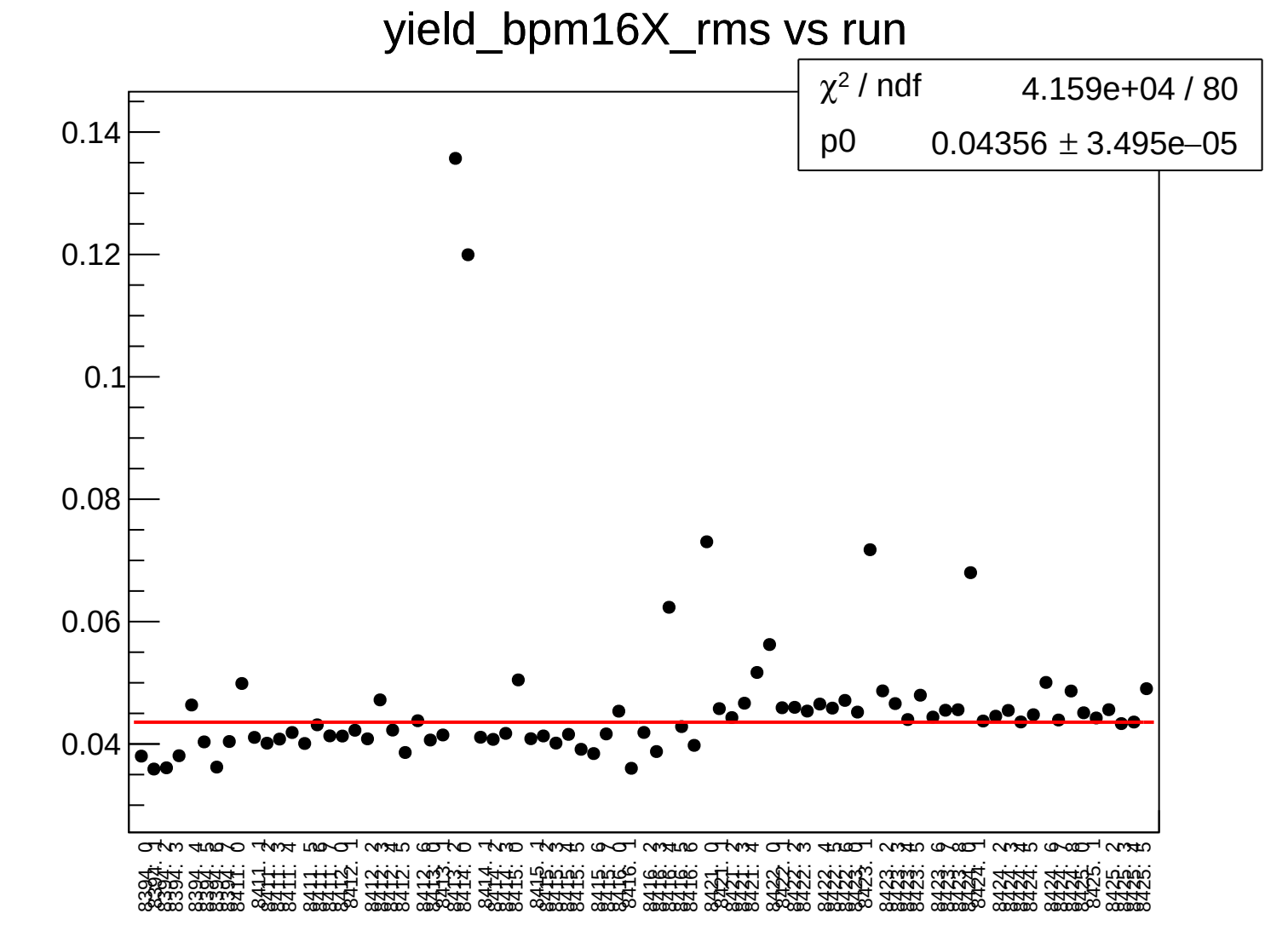

yield_bpm12Y_mean vs run
χ² / ndf 3.462e+07 / 80
p0 2.071± 5.861e−06
pull
Entries 81
Mean 92.57
Std Dev 54.08

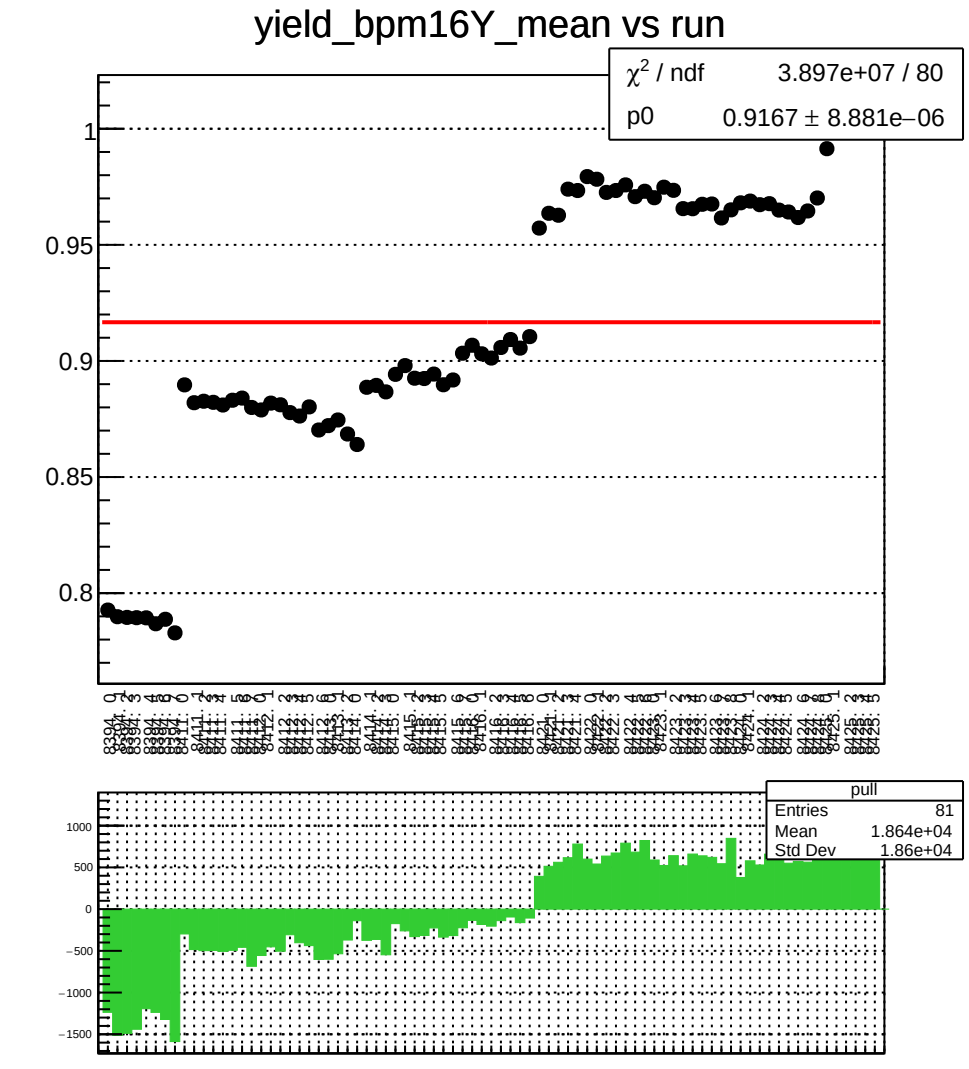

pull1D
Entries 81
Mean 3.343
Std Dev 0

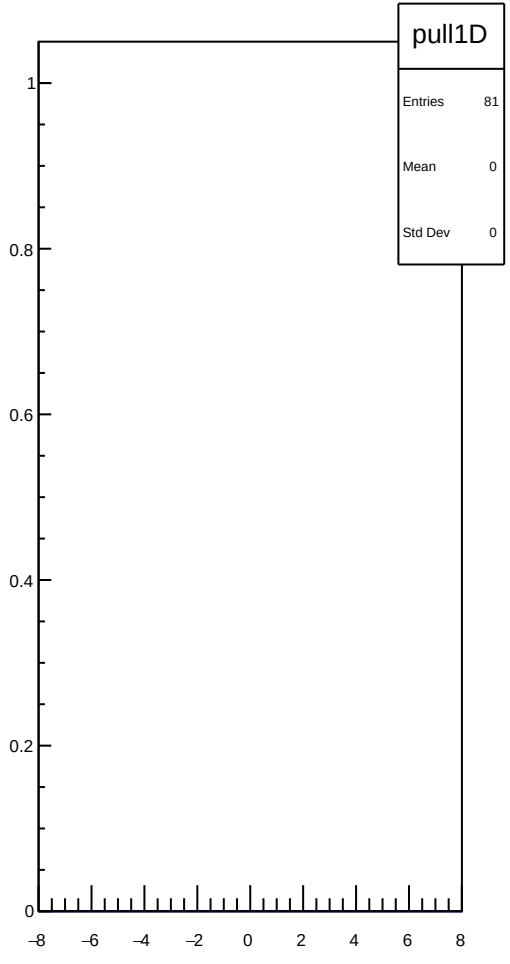

yield_bpm12Y_rms vs run
χ² / ndf 7.113e+04 / 80
p0 0.005115 ± 4.144e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

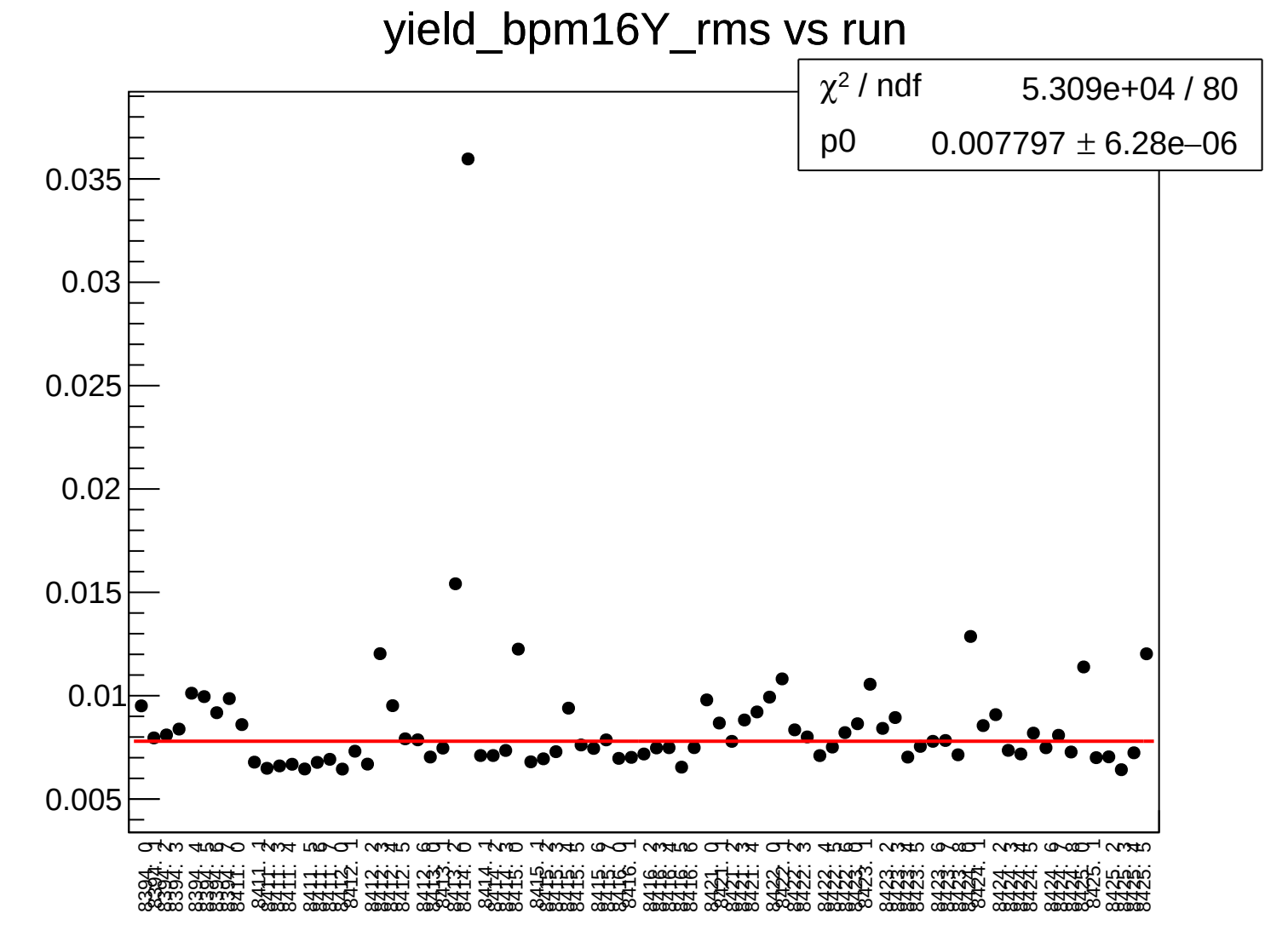

yield_bpm16X_mean vs run
χ² / ndf 2.135e+07 / 80
p0 −0.3741 ± 4.943e−05
pull
Entries 81
Mean −8.775
Std Dev 97.79

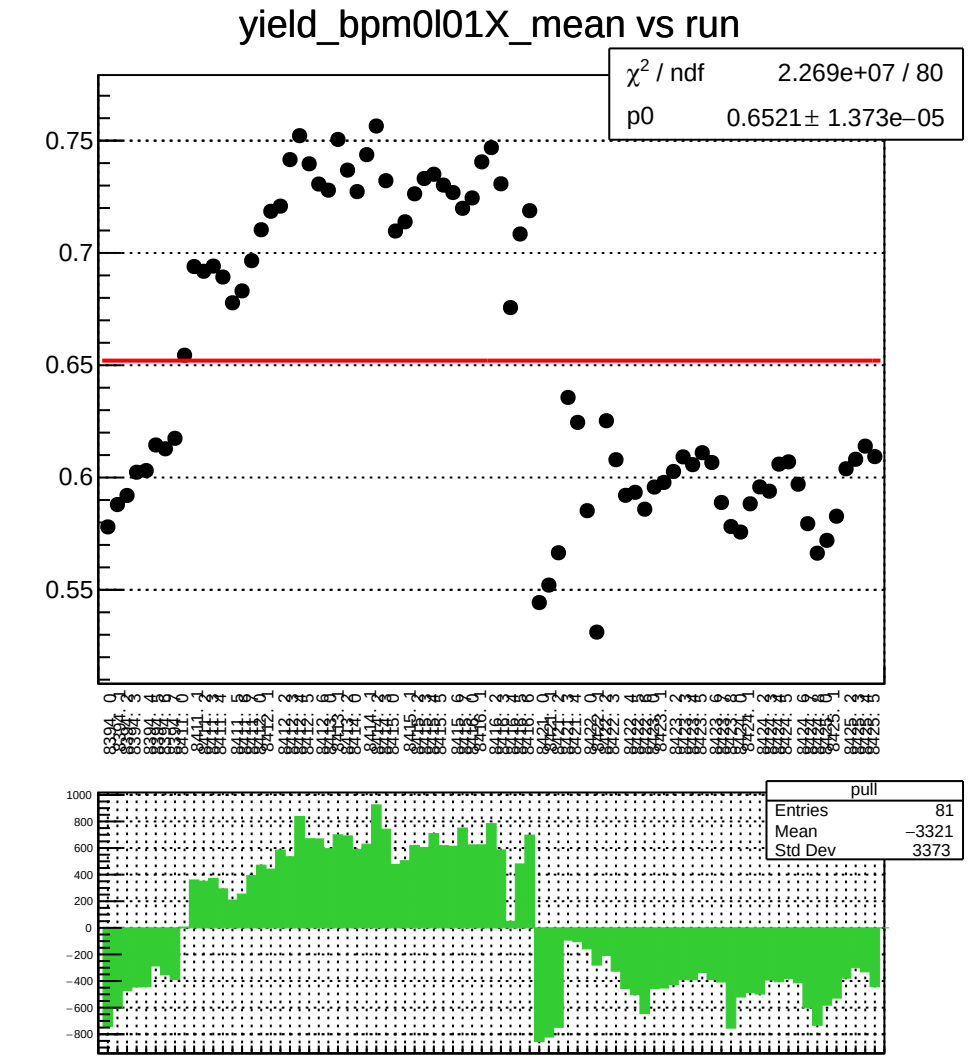

pull1D
Entries 81
Mean −2.029
Std Dev 4.709

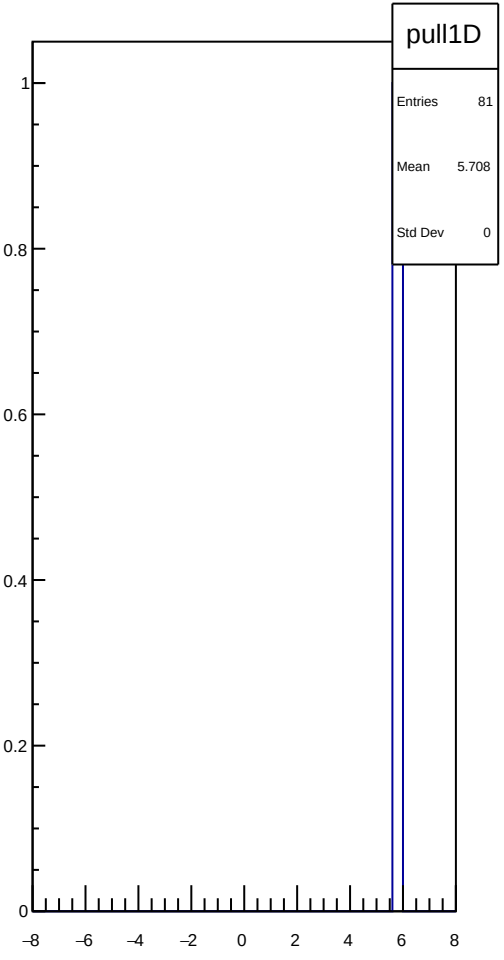

yield_bpm16X_rms vs run
χ² / ndf 4.159e+04 / 80
p0 0.04356 ± 3.495e–05
0.14
0.12
0.1
0.08
0.06
0.04

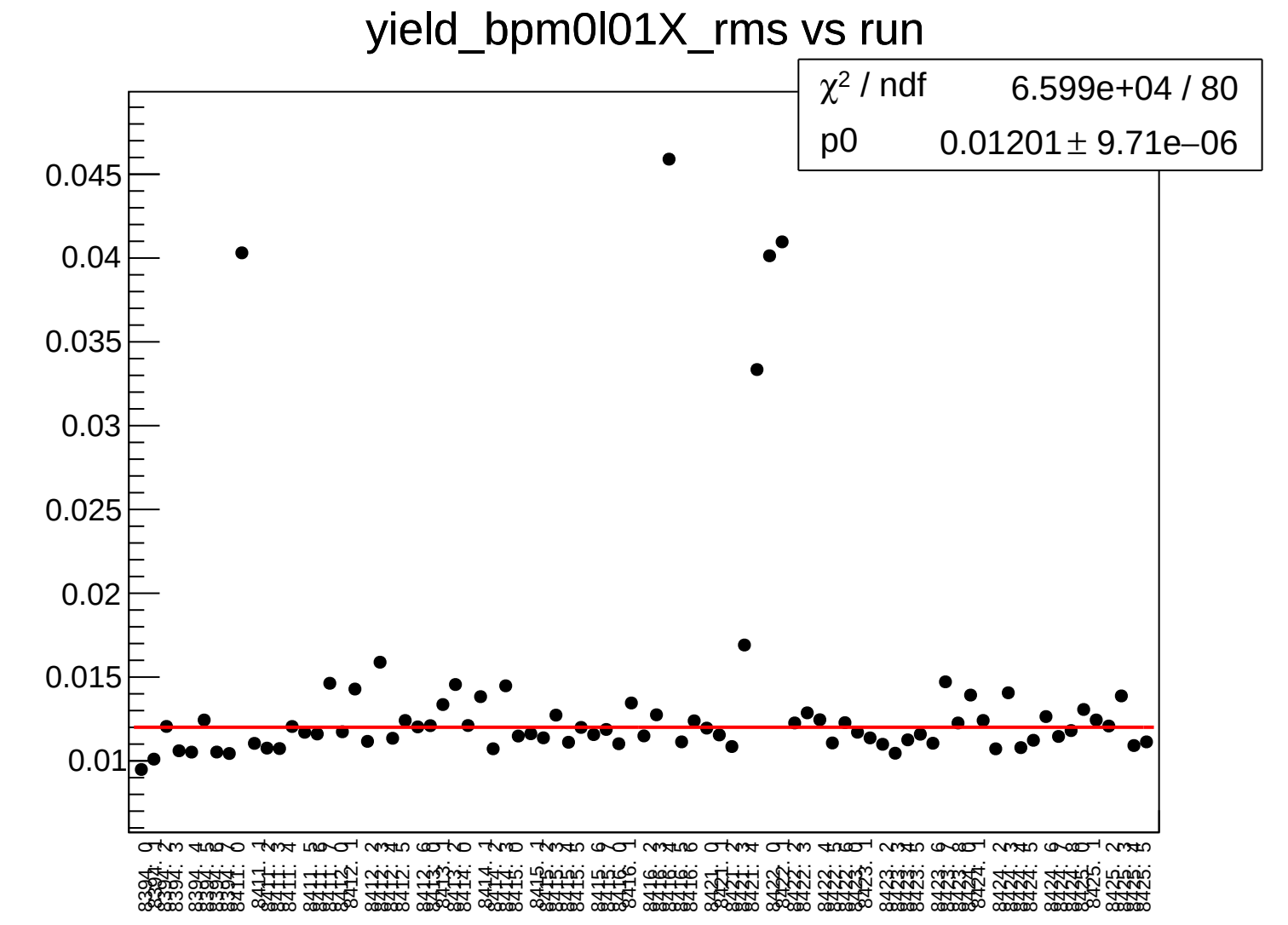

yield_bpm16Y_mean vs run
χ² / ndf 3.897e+07 / 80
p0 0.9167 ± 8.881e−06
1
0.95
0.9
0.85
0.8
pull
Entries 81
Mean 1.864e+04
Std Dev 1.86e+04
1000
500
0
−500
−1000
−1500

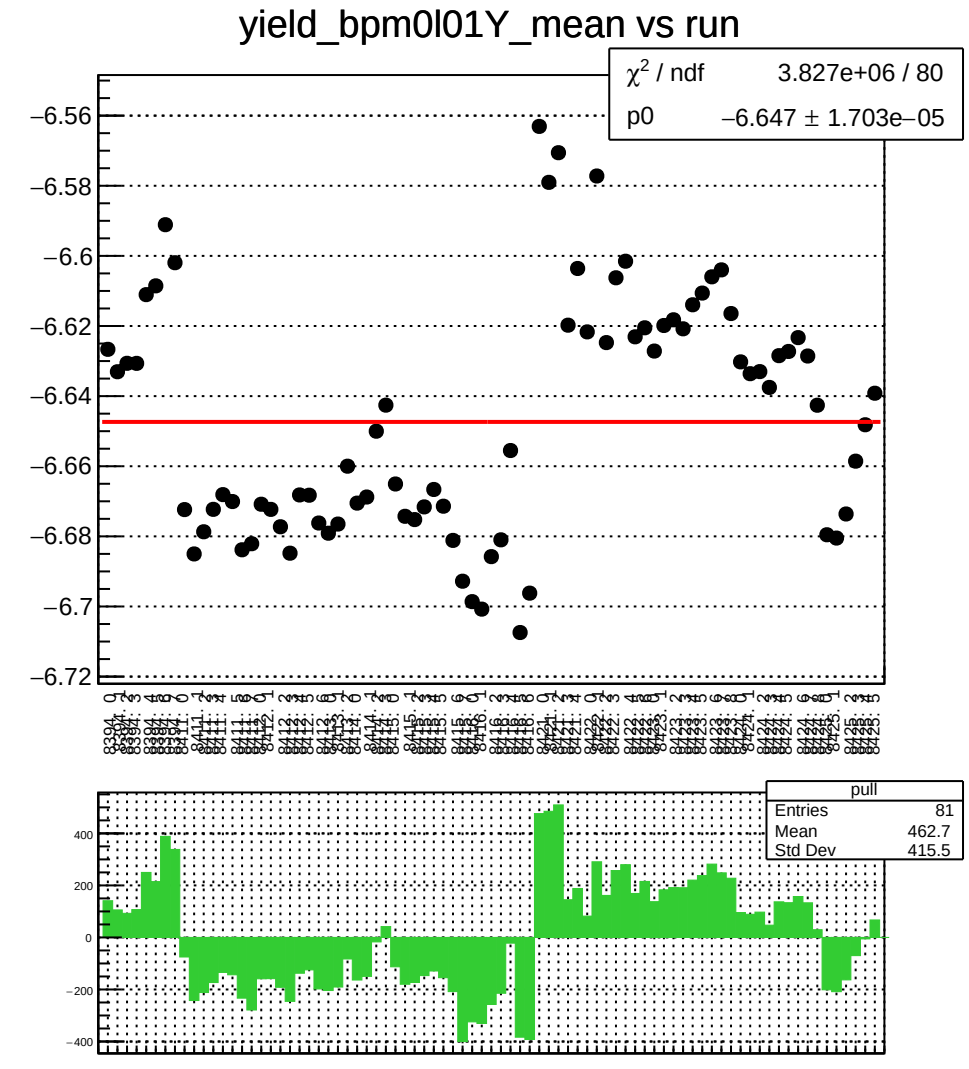

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

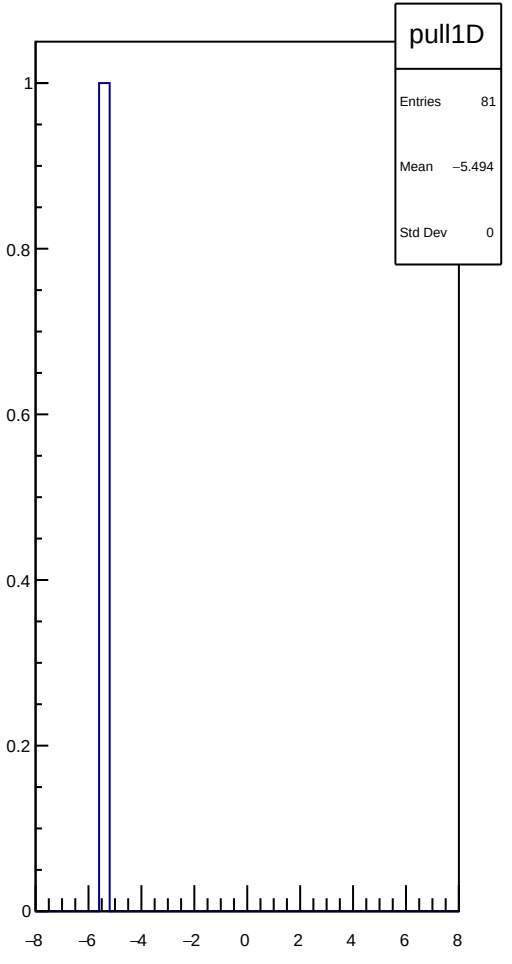

yield_bpm16Y_rms vs run
χ² / ndf 5.309e+04 / 80
p0 0.007797 ± 6.28e–06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

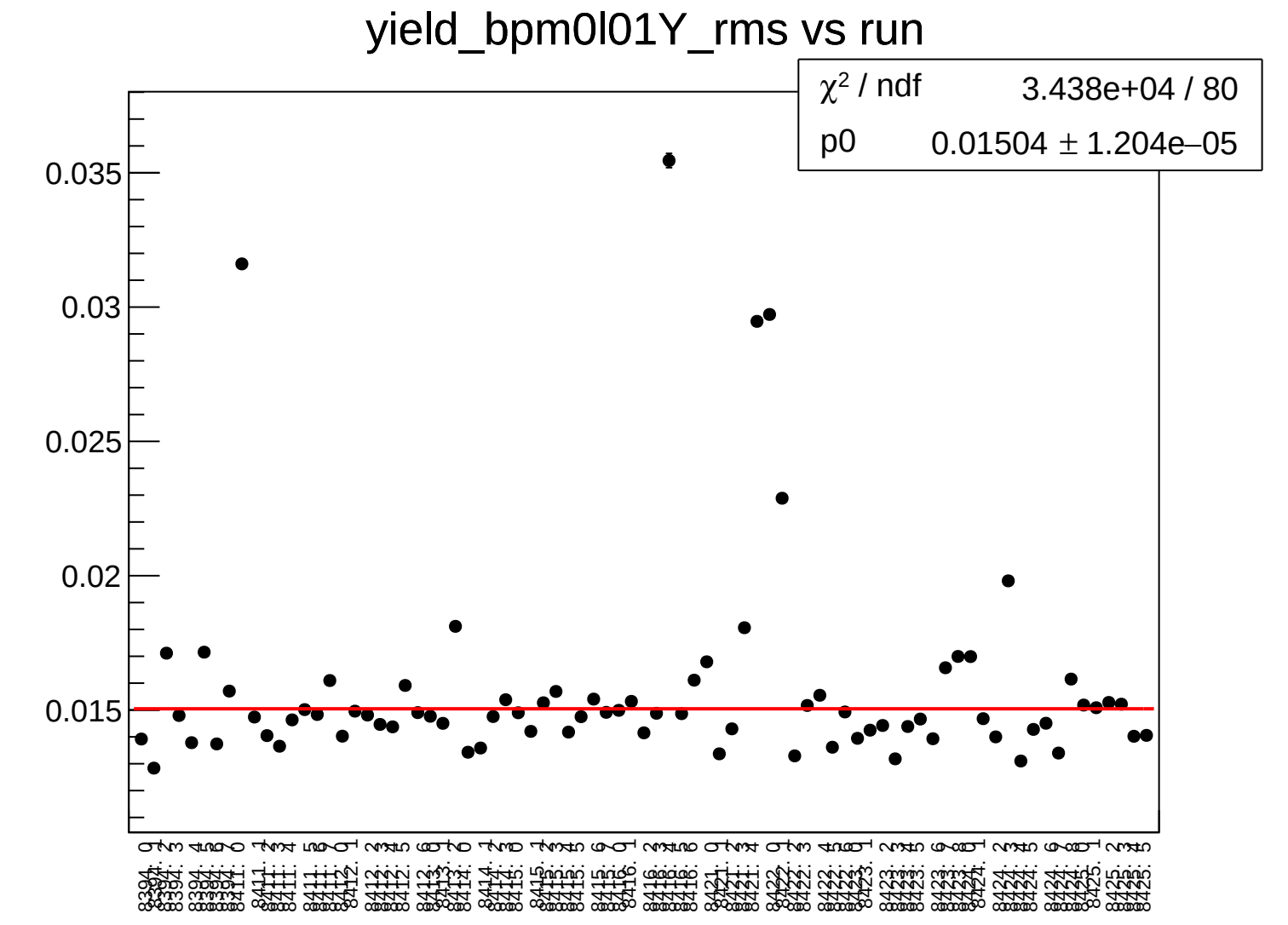

yield_bpm0l01X_mean vs run
χ² / ndf 2.269e+07 / 80
p0 0.6521 ± 1.373e−05
0.75
0.7
0.65
0.6
0.55
pull
Entries 81
Mean −3321
Std Dev 3373
1000
800
600
400
200
0
−200
−400
−600
−800

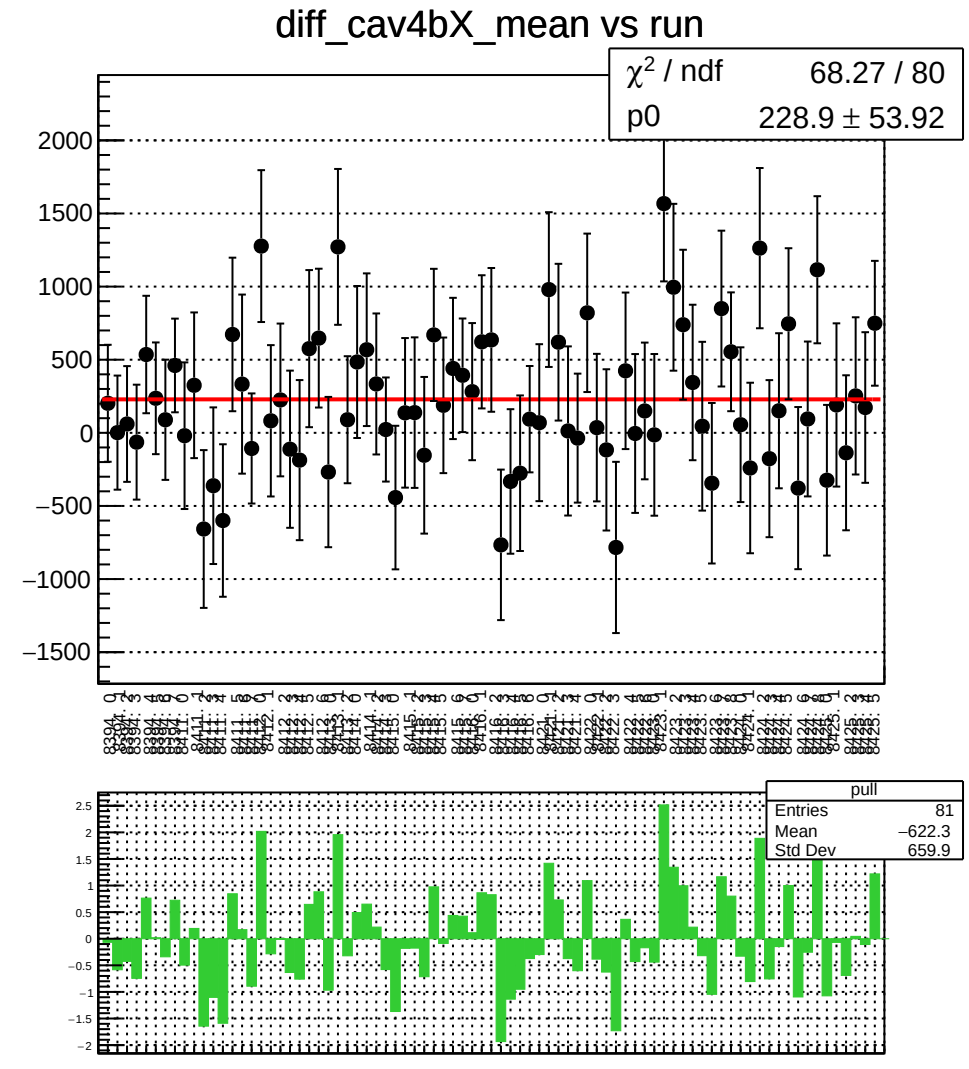

pull1D
Entries 81
Mean 5.708
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

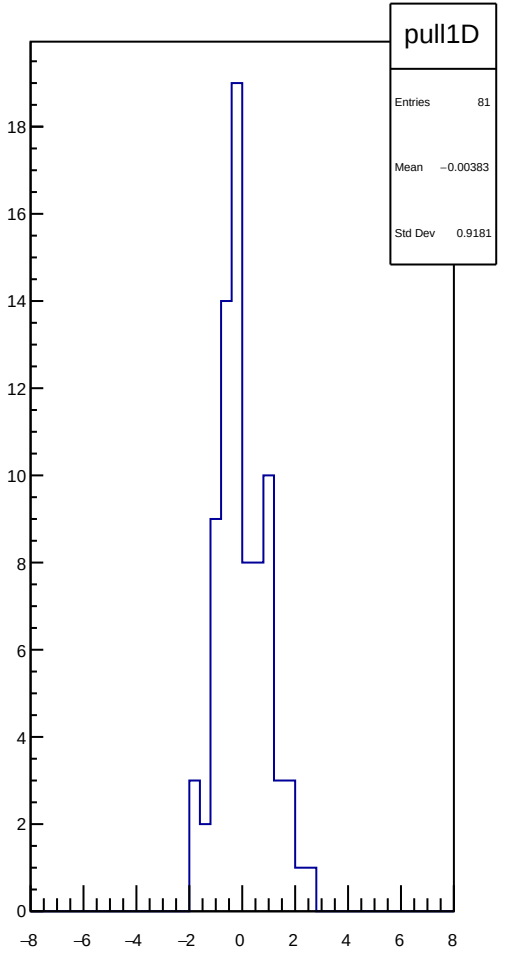

yield_bpm0l01X_rms vs run
χ² / ndf 6.599e+04 / 80
p0 0.01201 ± 9.71e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

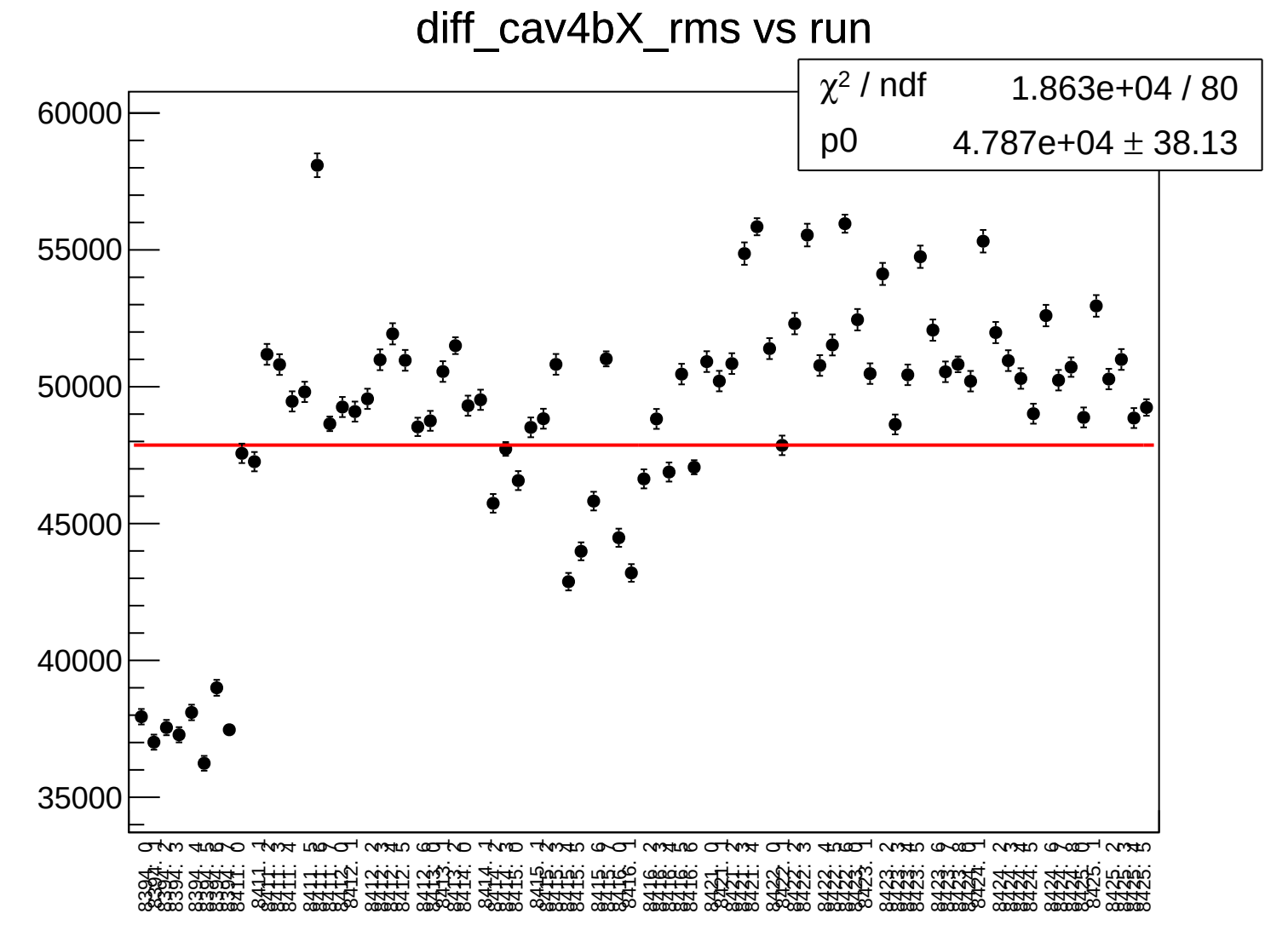

yield_bpm0l01Y_mean vs run
χ² / ndf 3.827e+06 / 80
p0 −6.647 ± 1.703e−05
−6.56
−6.58
−6.6
−6.62
−6.64
−6.66
−6.68
−6.7
−6.72
pull
Entries 81
Mean 462.7
Std Dev 415.5
400
200
0
−200
−400

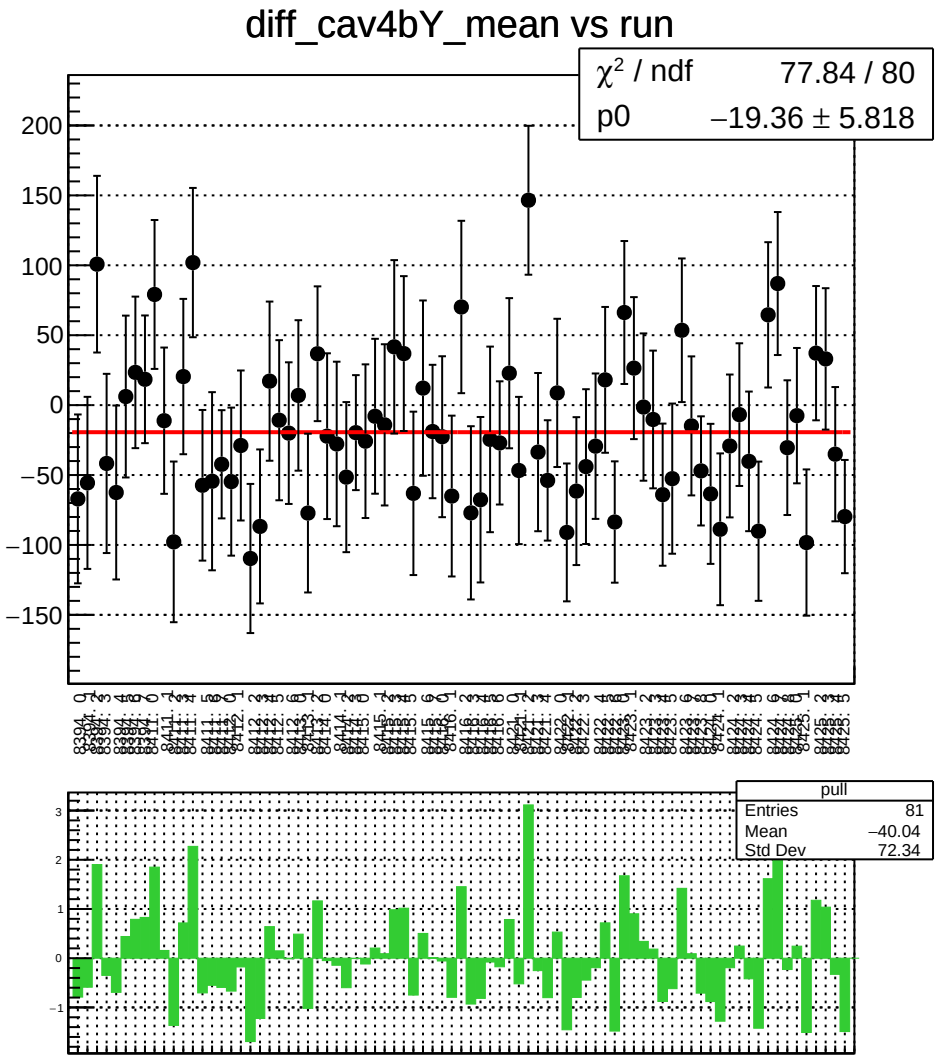

pull1D
Entries 81
Mean −5.494
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

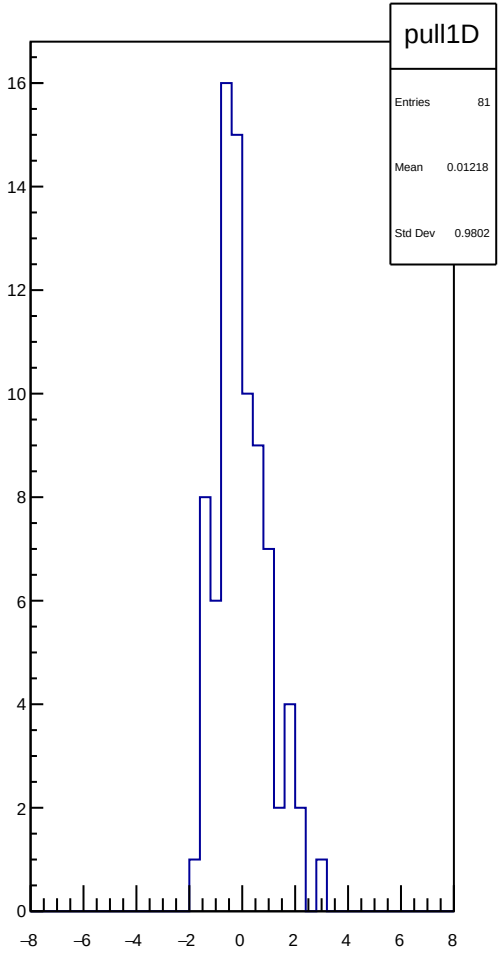

yield_bpm0l01Y_rms vs run
χ² / ndf 3.438e+04 / 80
p0 0.01504 ± 1.204e−05
0.035
0.03
0.025
0.02
0.015

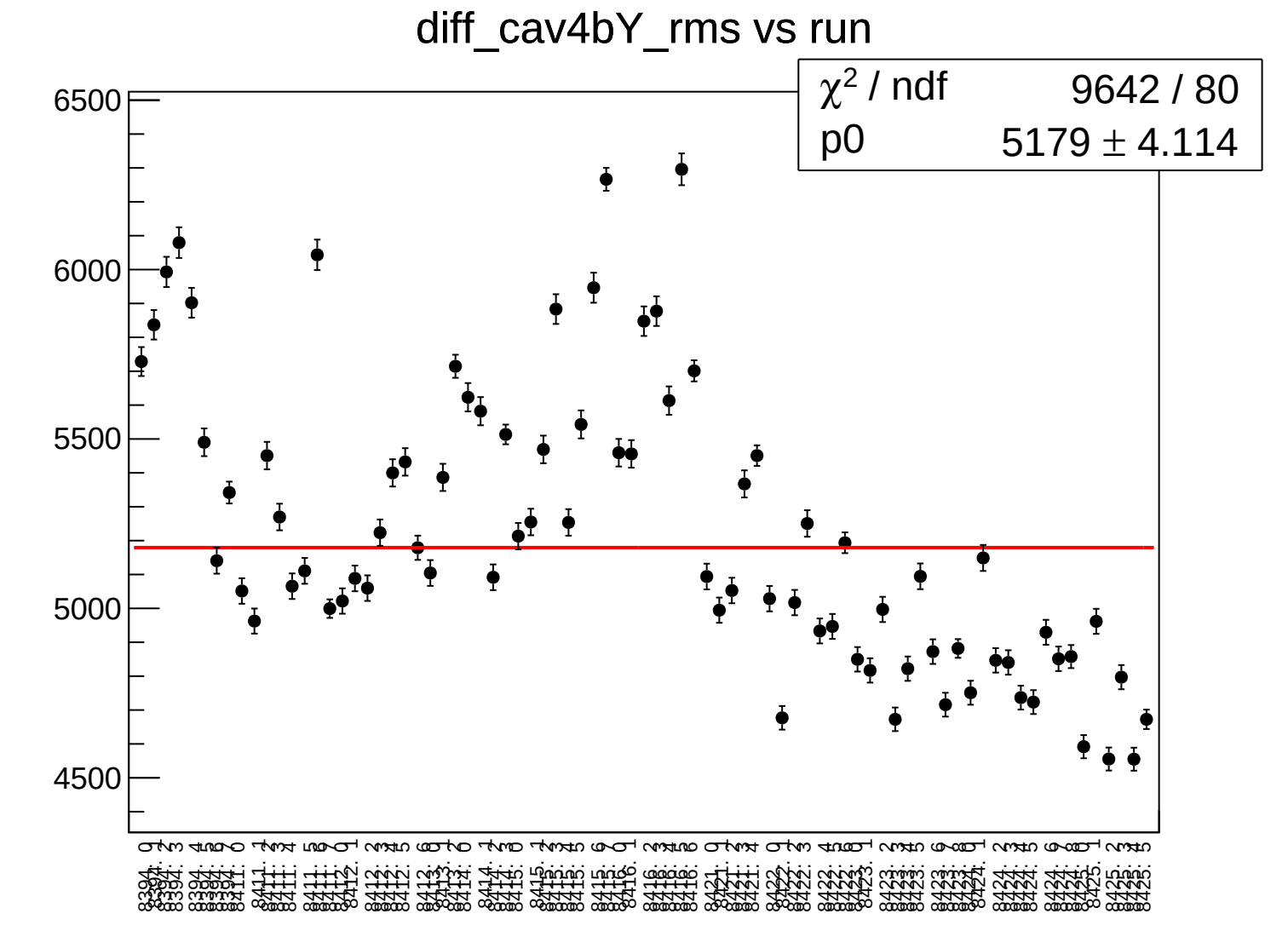

diff_cav4bX_mean vs run
χ^2 / ndf 68.27 / 80
p0 228.9 ± 53.92
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 81
Mean −622.3
Std Dev 659.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

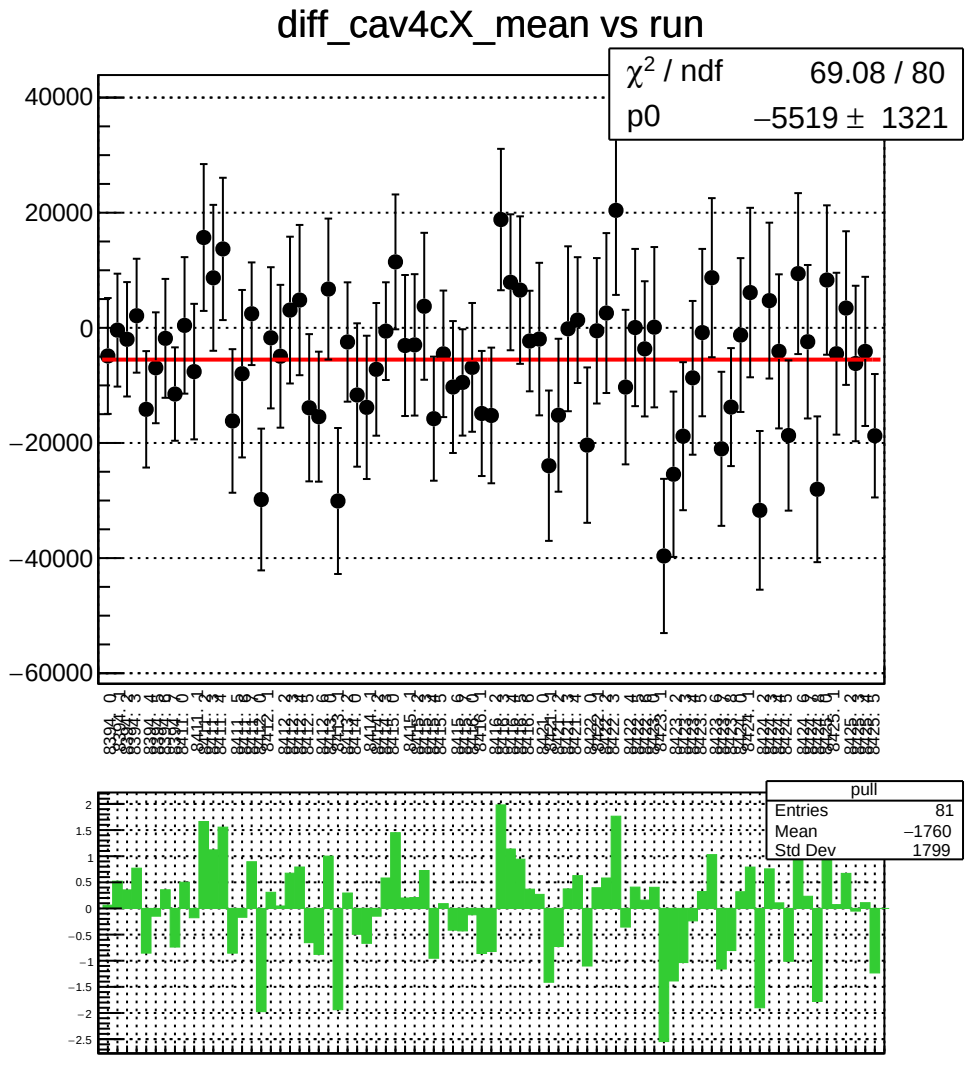

pull1D
Entries 81
Mean −0.00383
Std Dev 0.9181
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

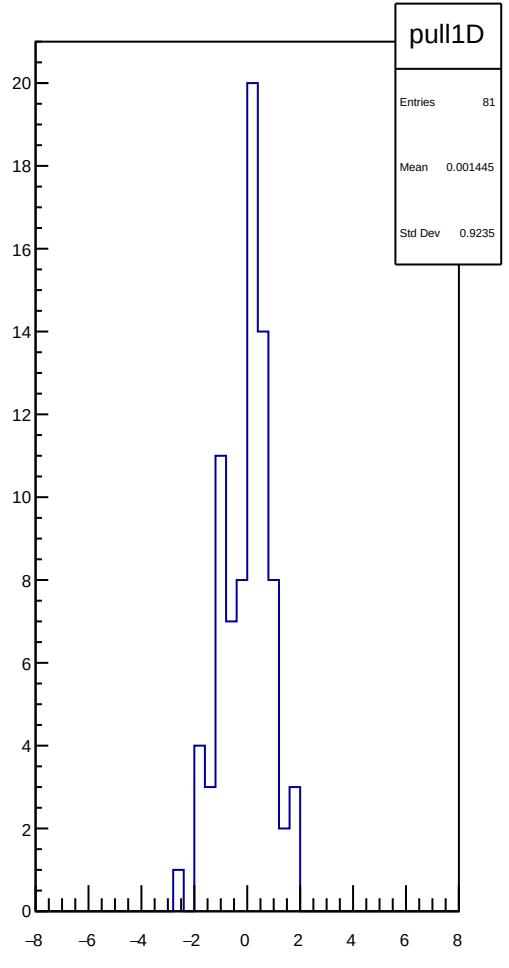

diff_cav4bX_rms vs run
χ² / ndf 1.863e+04 / 80
p0 4.787e+04 ± 38.13
60000
55000
50000
45000
40000
35000

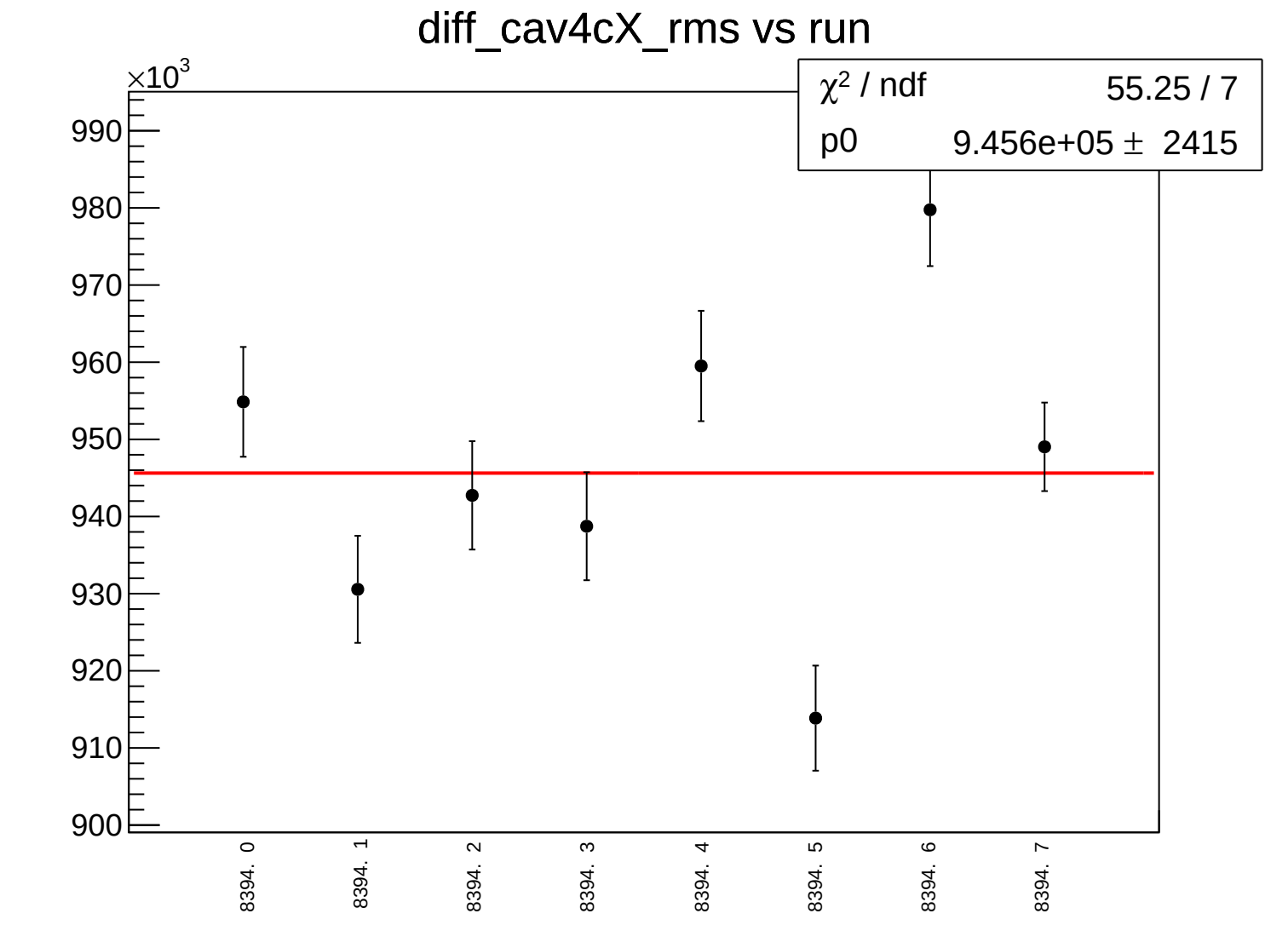

diff_cav4bY_mean vs run
χ² / ndf 77.84 / 80
p0 −19.36 ± 5.818
200
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −40.04
Std Dev 72.34
3
2
1
0
−1

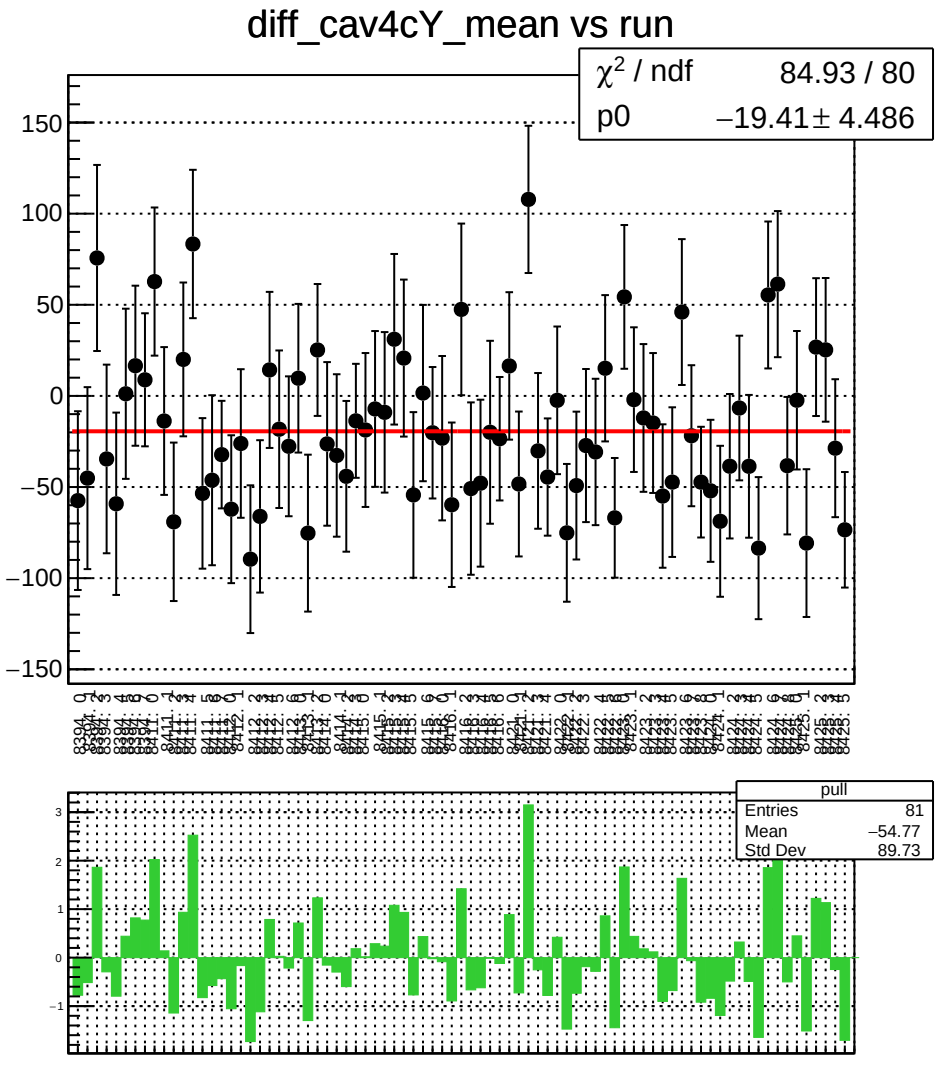

pull1D
Entries 81
Mean 0.01218
Std Dev 0.9802
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

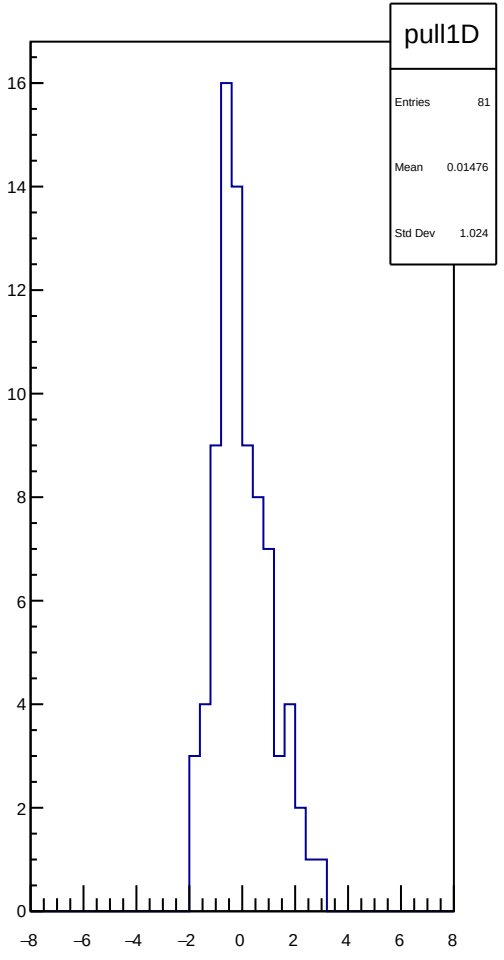

diff_cav4bY_rms vs run
χ² / ndf 9642 / 80
p0 5179 ± 4.114
6500
6000
5500
5000
4500

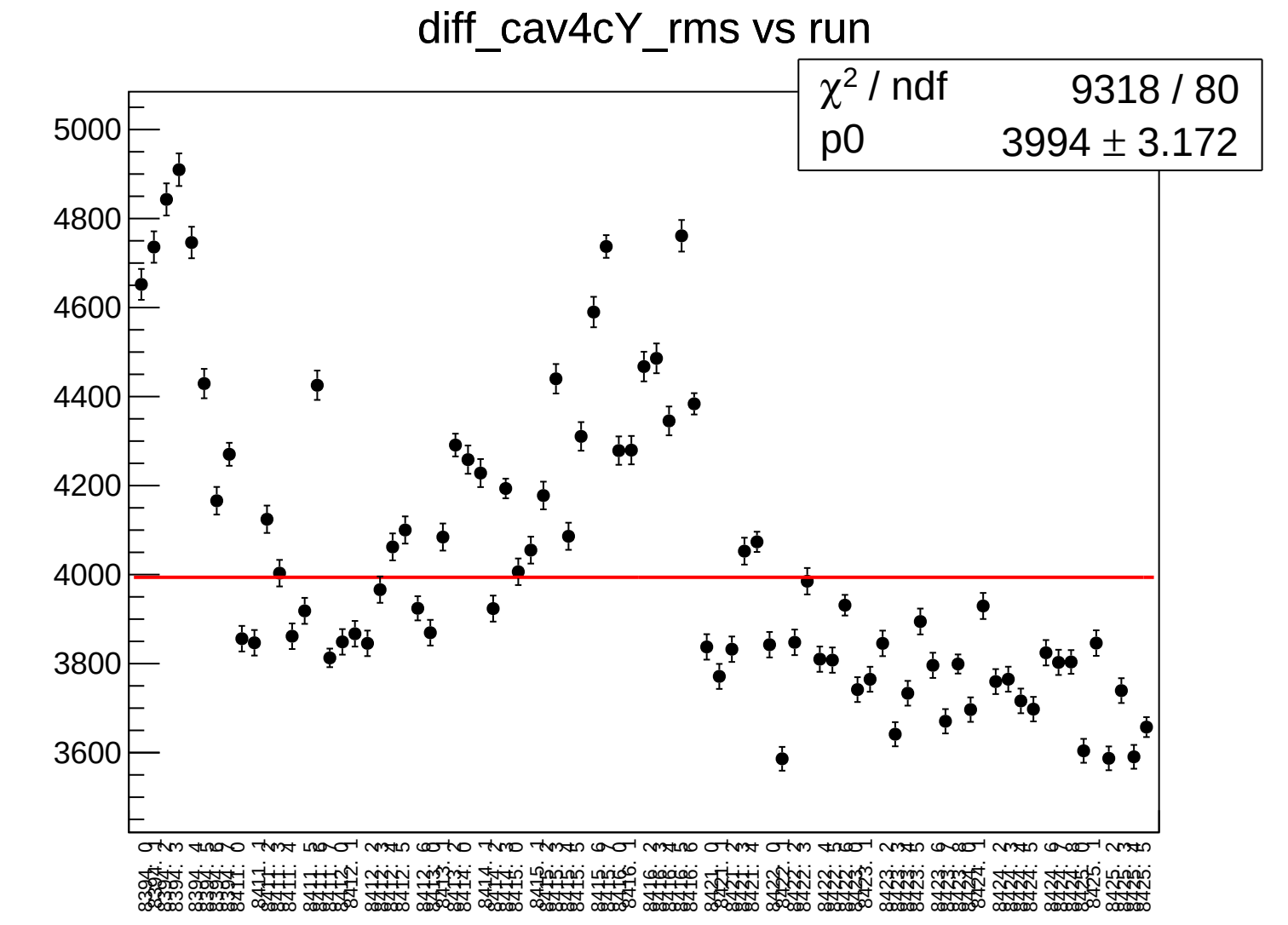

diff_cav4cX_mean vs run
χ² / ndf 69.08 / 80
p0 −5519 ± 1321
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −1760
Std Dev 1799
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

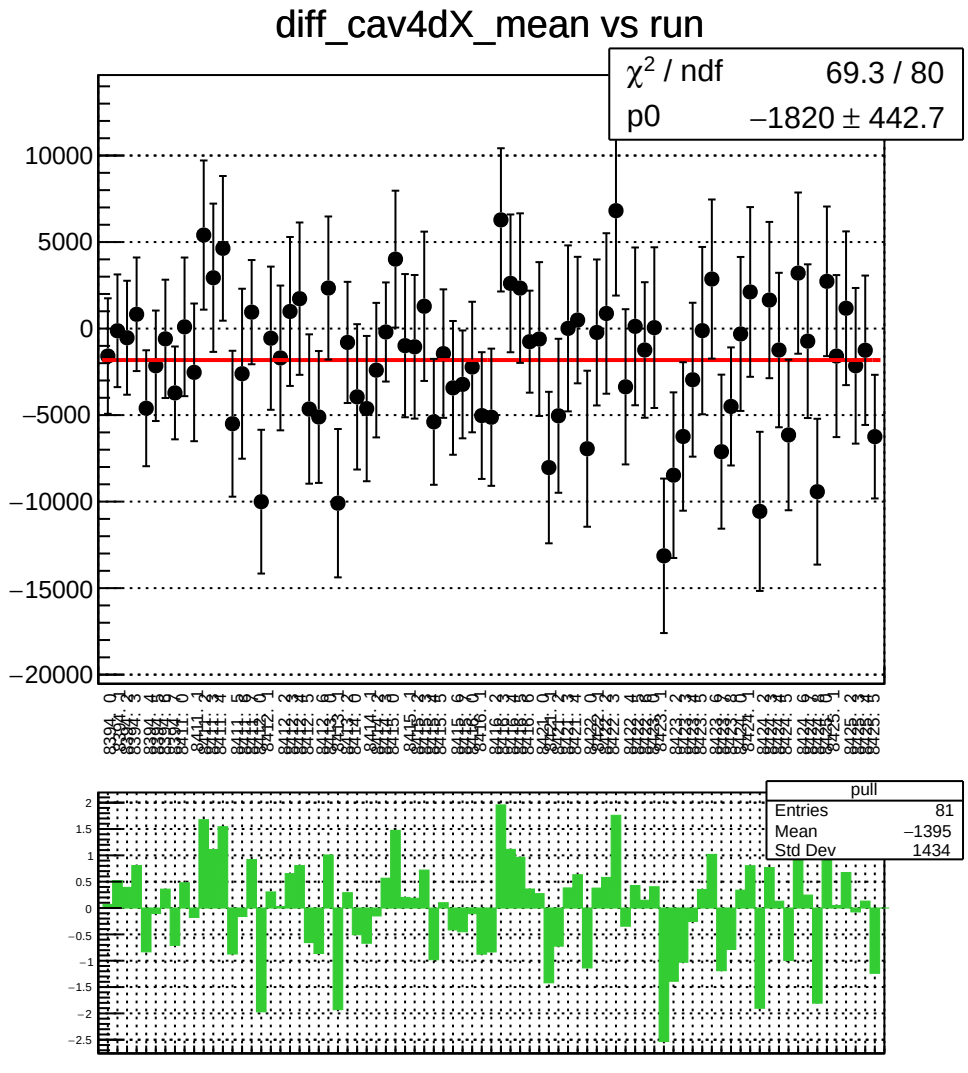

pull1D
Entries 81
Mean 0.001445
Std Dev 0.9235
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

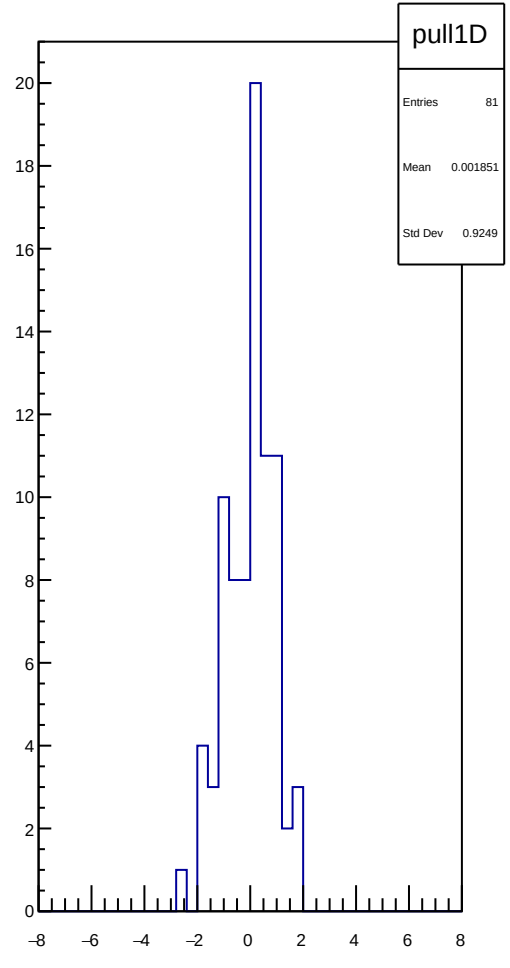

diff_cav4cX_rms vs run
×10^3
990
980
970
960
950
940
930
920
910
900
χ² / ndf 55.25 / 7
p0 9.456e+05 ± 2415
8394. 0
8394. 1
8394. 2
8394. 3
8394. 4
8394. 5
8394. 6
8394. 7

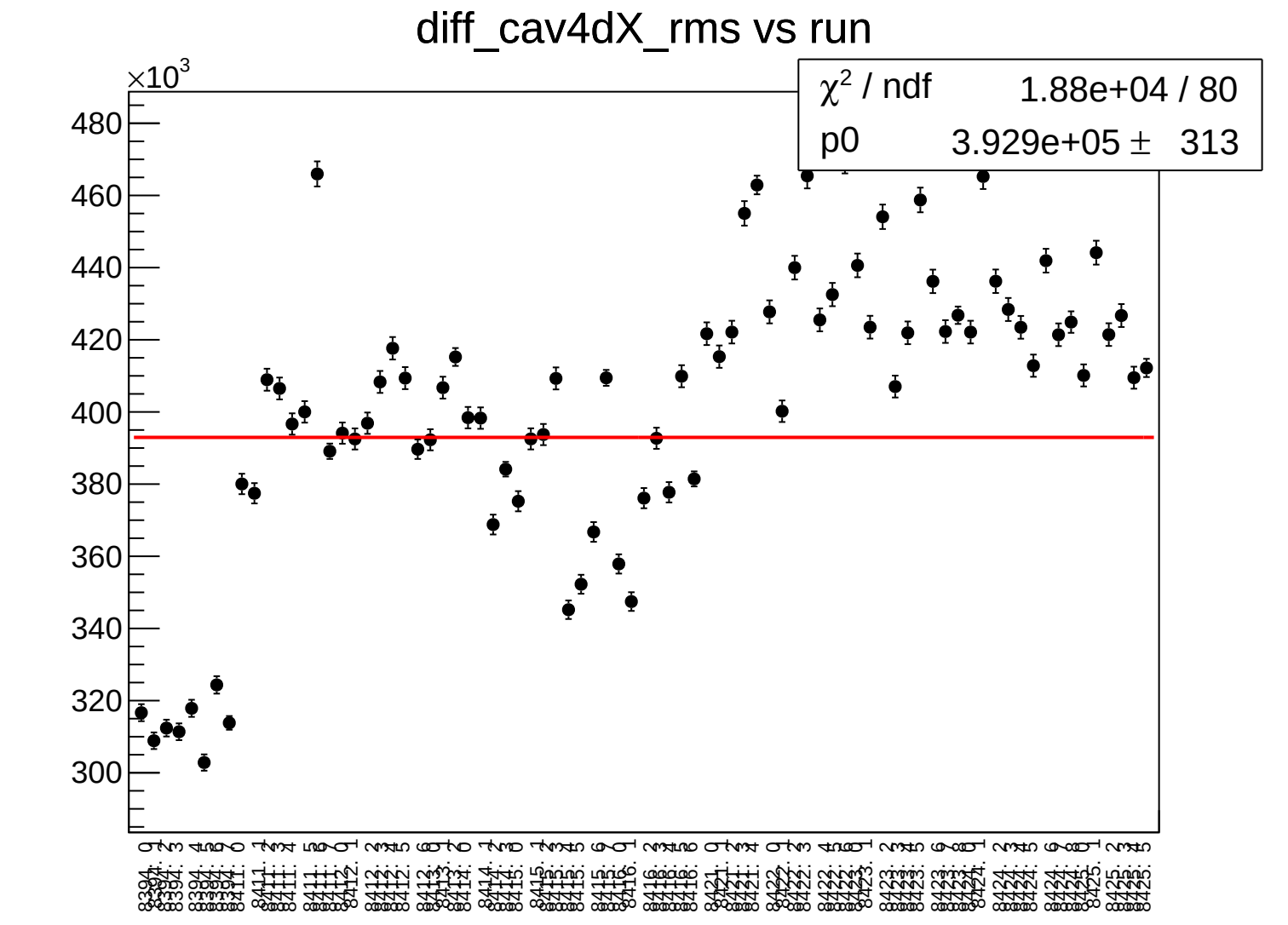

diff_cav4cY_mean vs run
χ² / ndf 84.93 / 80
p0 −19.41 ± 4.486
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −54.77
Std Dev 89.73
3
2
1
0
−1

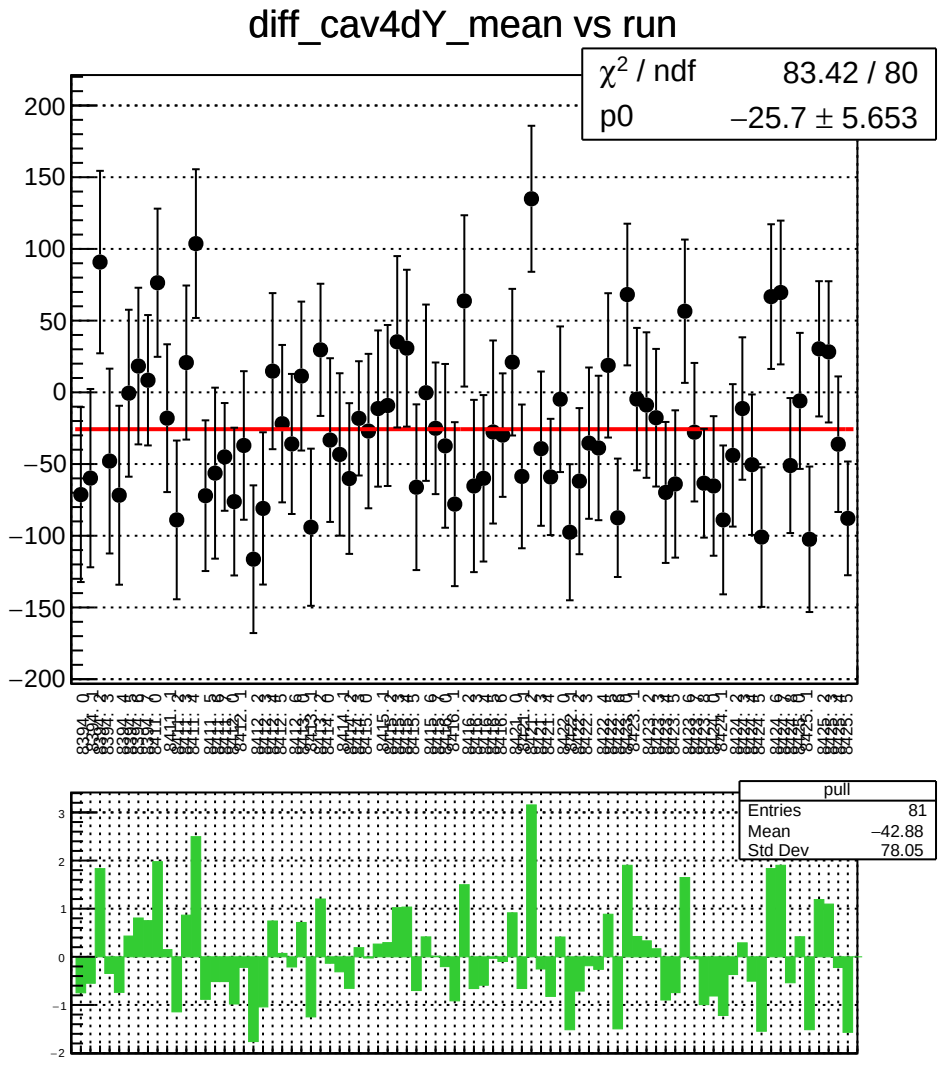

pull1D
Entries 81
Mean 0.01476
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

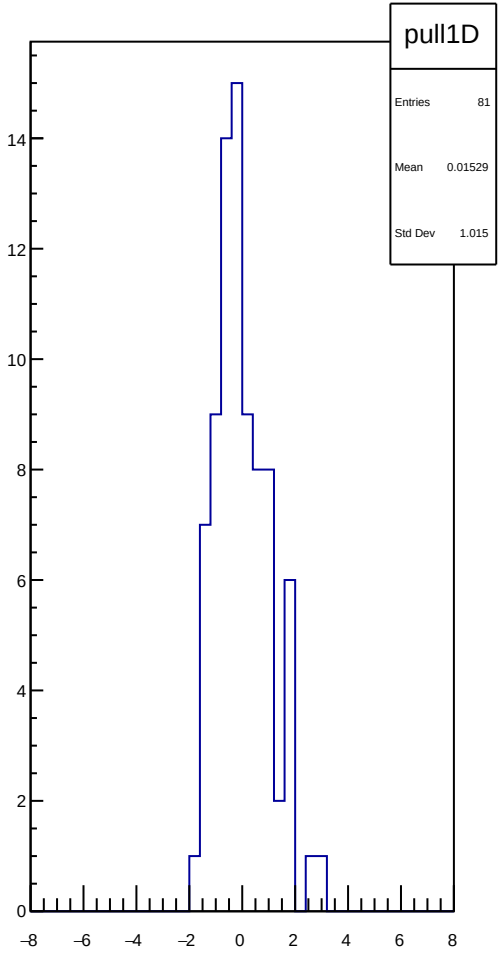

diff_cav4cY_rms vs run
χ² / ndf 9318 / 80
p0 3994 ± 3.172
5000
4800
4600
4400
4200
4000
3800
3600

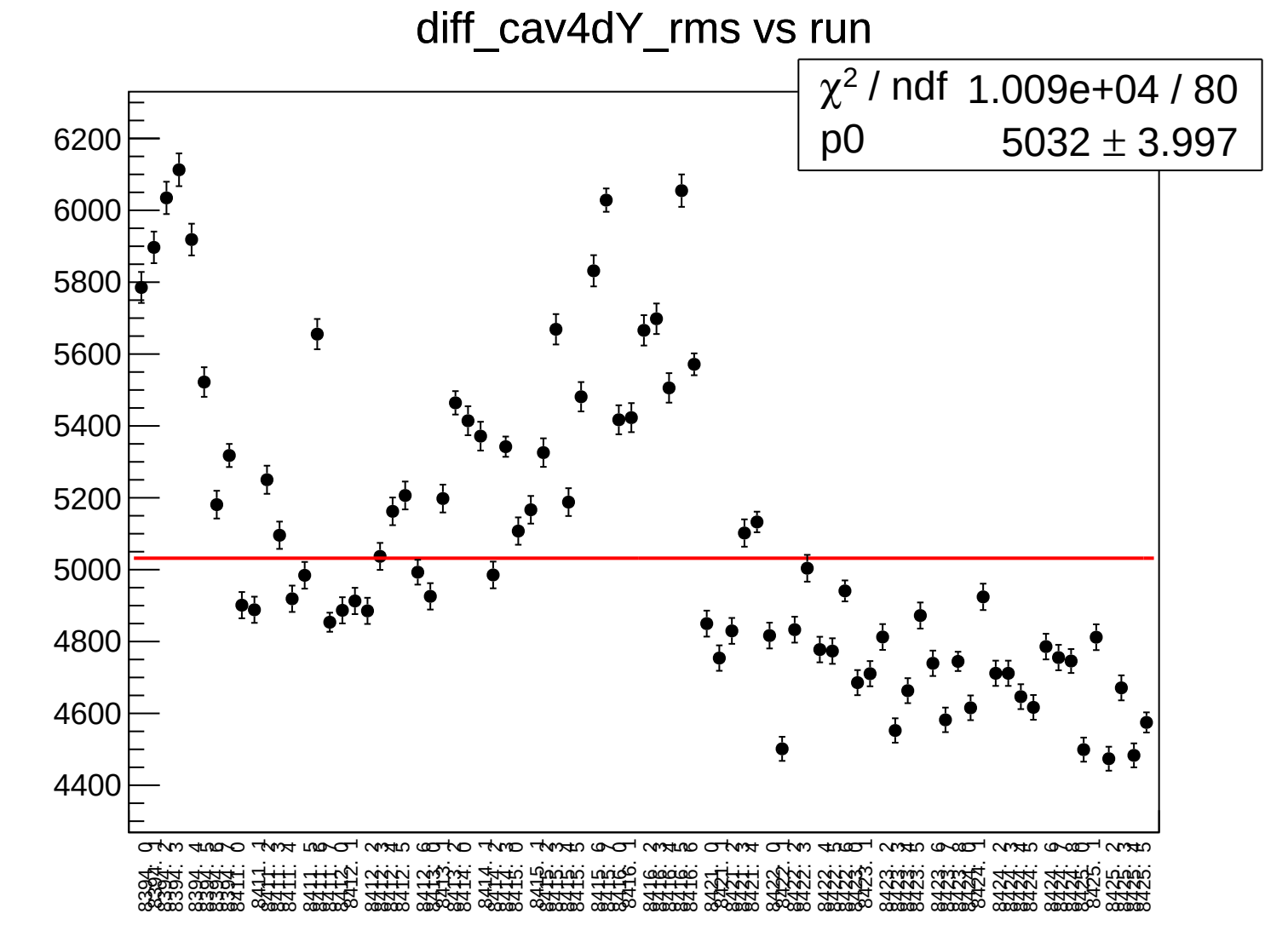

diff_cav4dX_mean vs run
χ^2 / ndf 69.3 / 80
p0 −1820 ± 442.7
pull
Entries 81
Mean −1395
Std Dev 1434

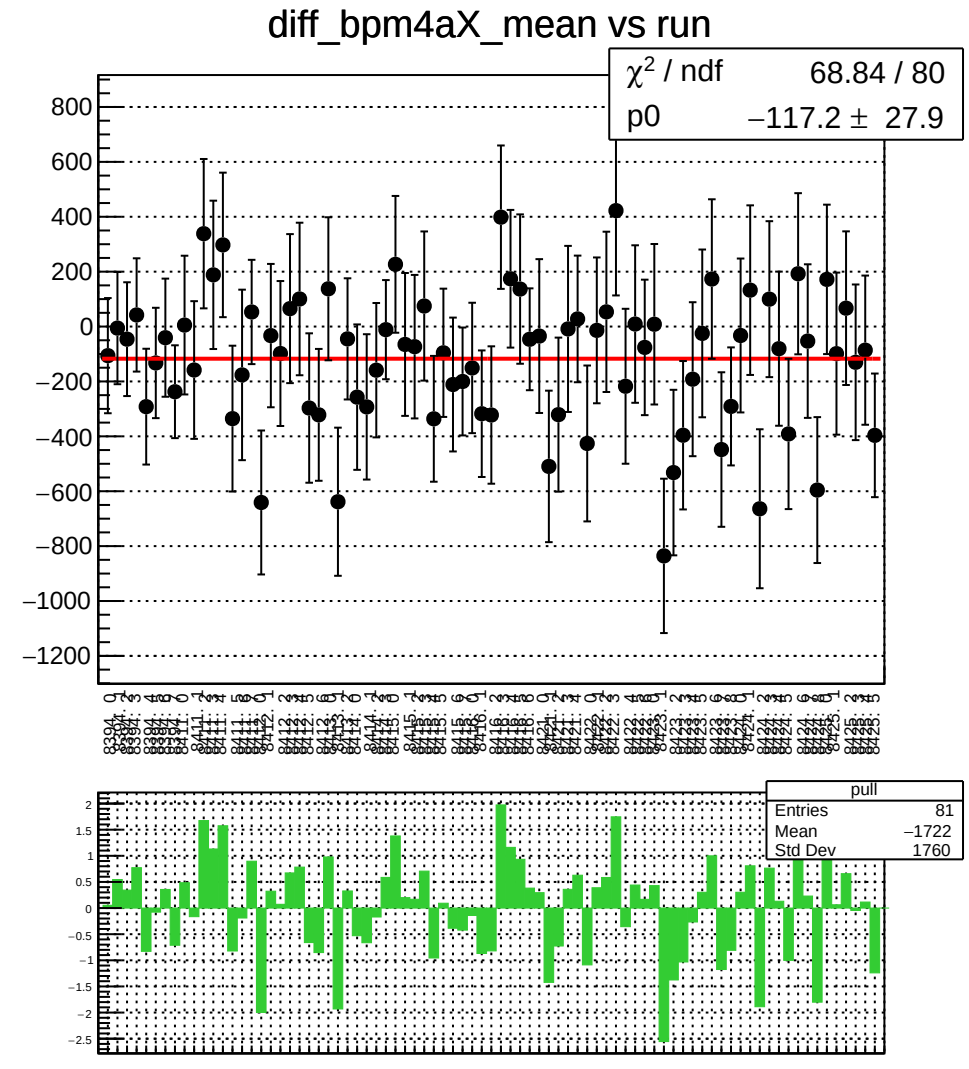

pull1D
Entries 81
Mean 0.001851
Std Dev 0.9249

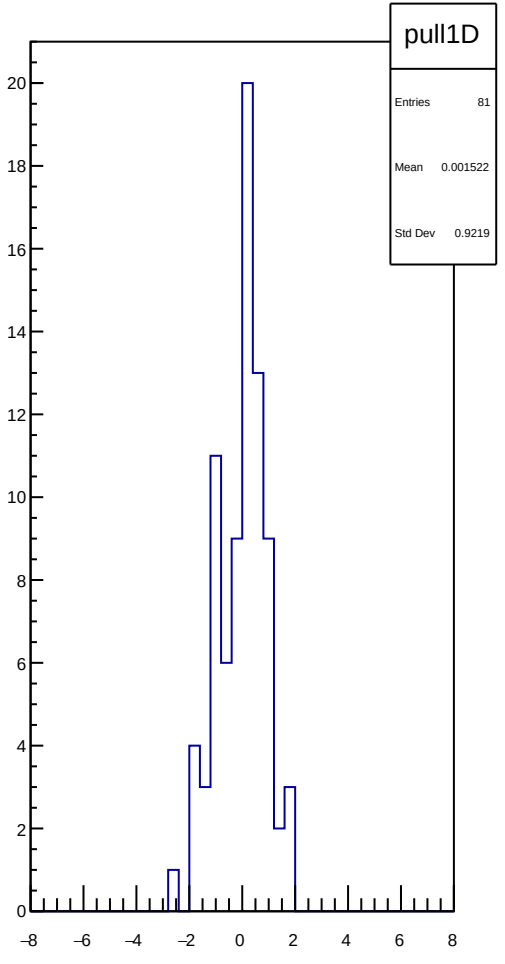

diff_cav4dX_rms vs run
×10^3
χ^2 / ndf 1.88e+04 / 80
p0 3.929e+05 ± 313
480
460
440
420
400
380
360
340
320
300

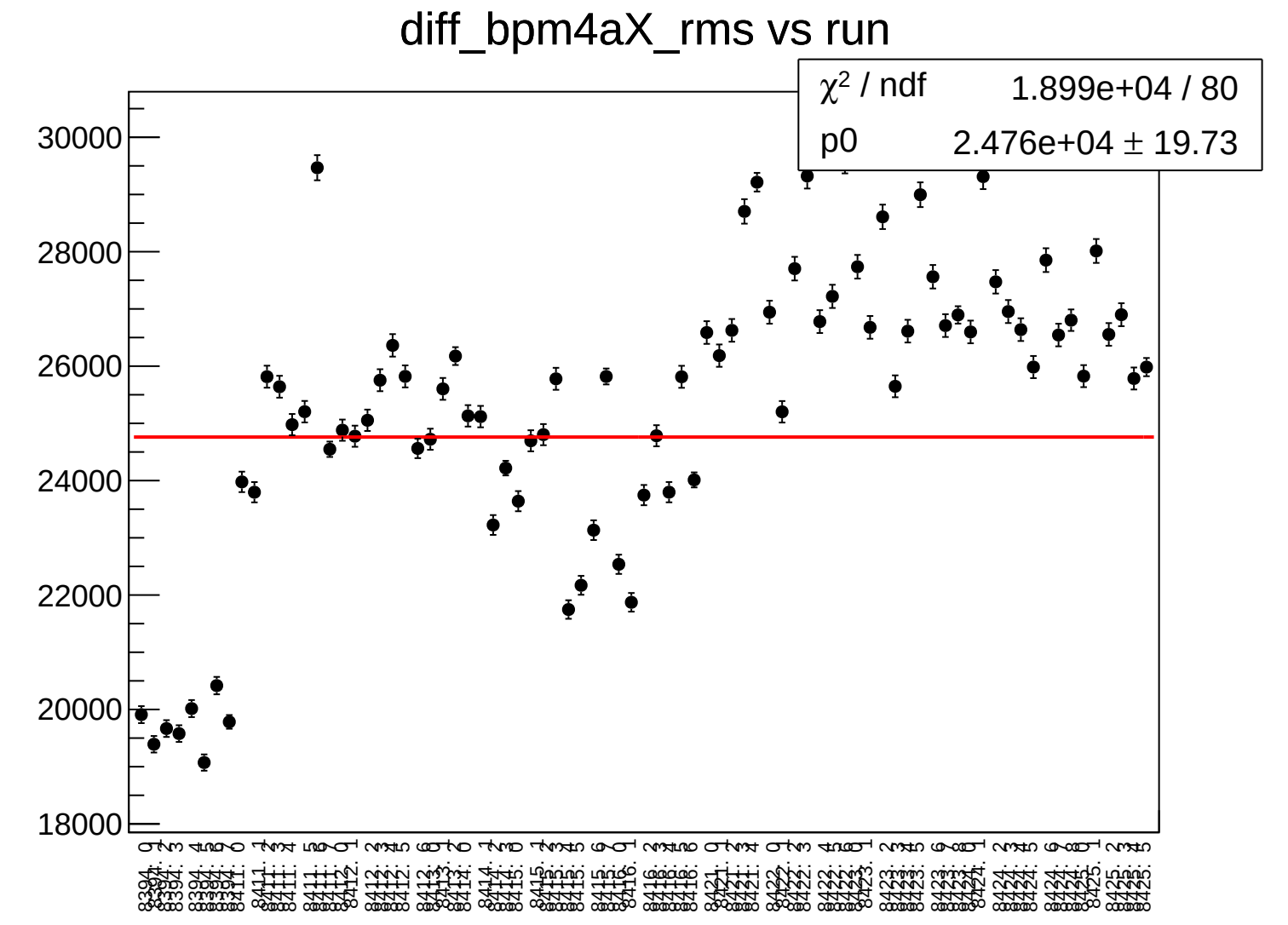

diff_cav4dY_mean vs run
χ^2 / ndf 83.42 / 80
p0 −25.7 ± 5.653
pull
Entries 81
Mean −42.88
Std Dev 78.05

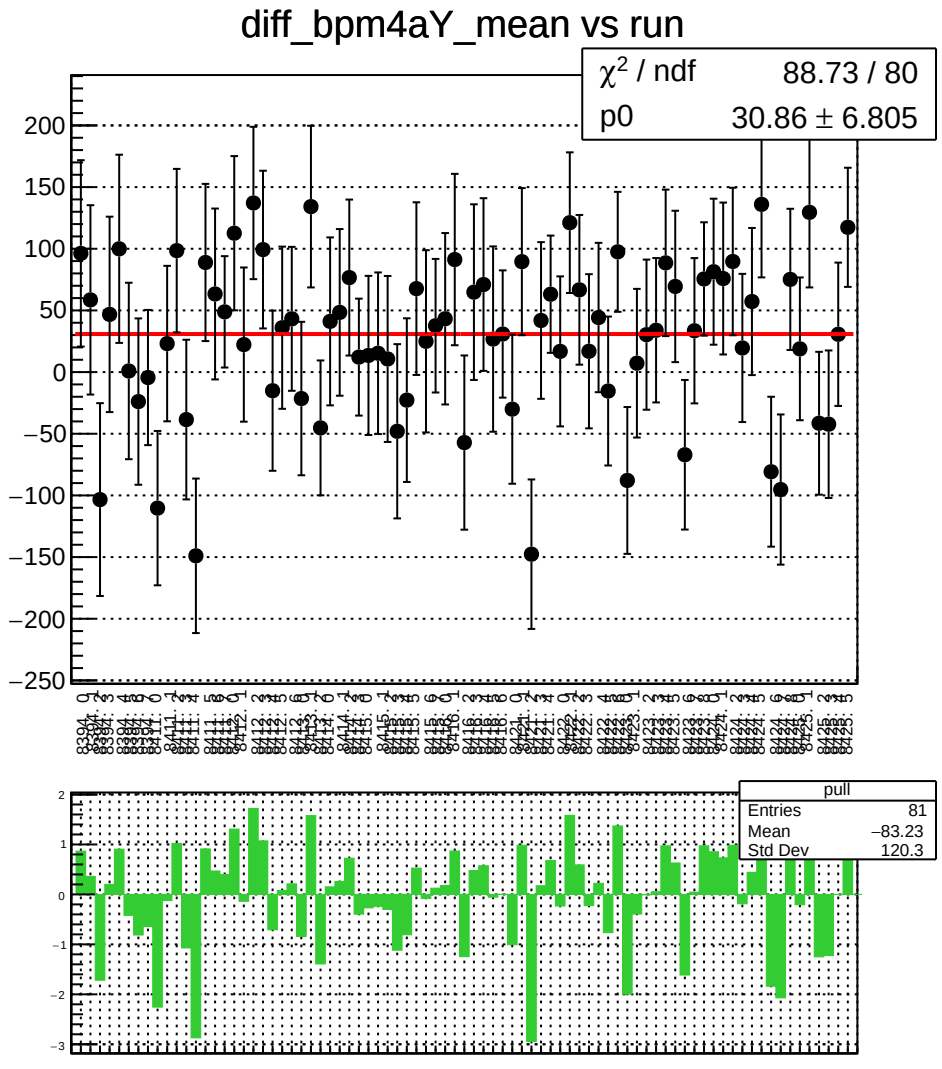

pull1D
Entries 81
Mean 0.01529
Std Dev 1.015

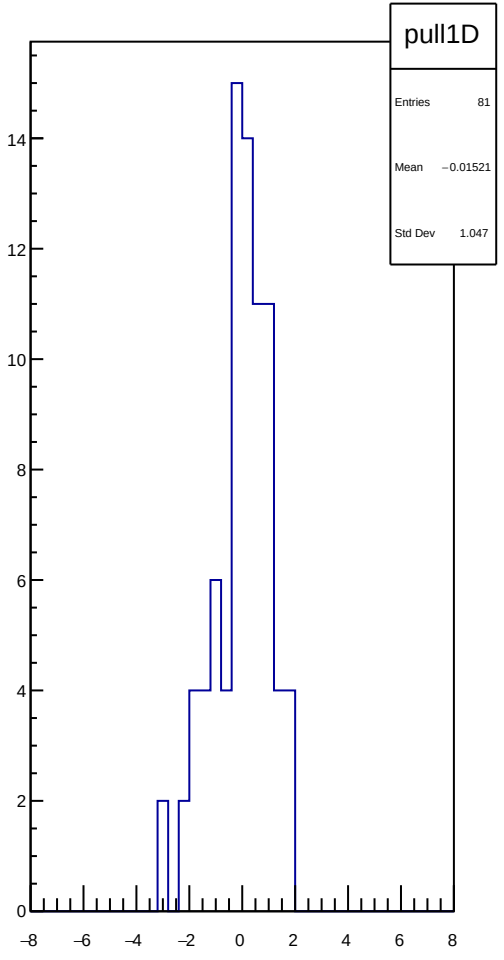

diff_cav4dY_rms vs run
χ² / ndf 1.009e+04 / 80
p0 5032 ± 3.997
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

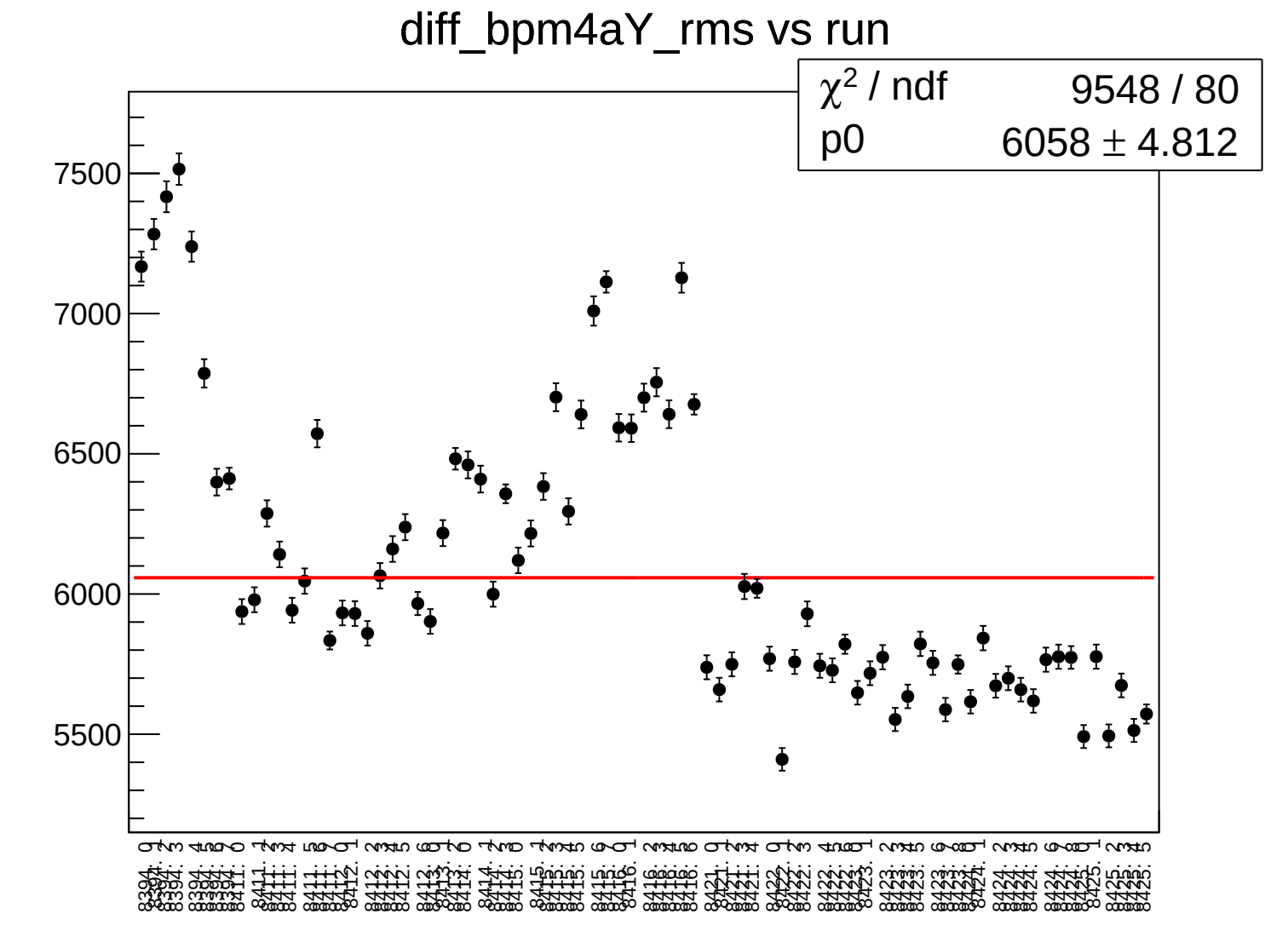

diff_bpm4aX_mean vs run
χ² / ndf 68.84 / 80
p0 −117.2 ± 27.9
pull
Entries 81
Mean −1722
Std Dev 1760

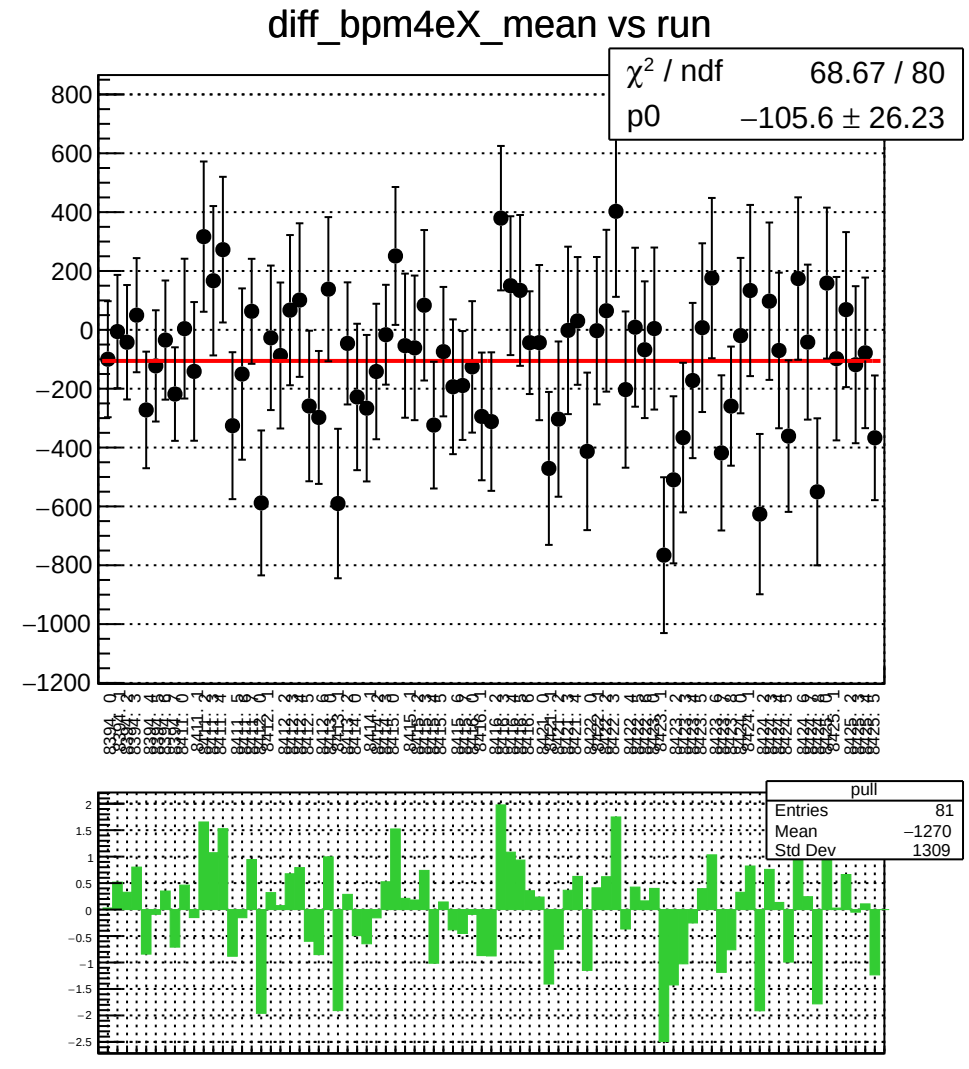

pull1D
Entries 81
Mean 0.001522
Std Dev 0.9219

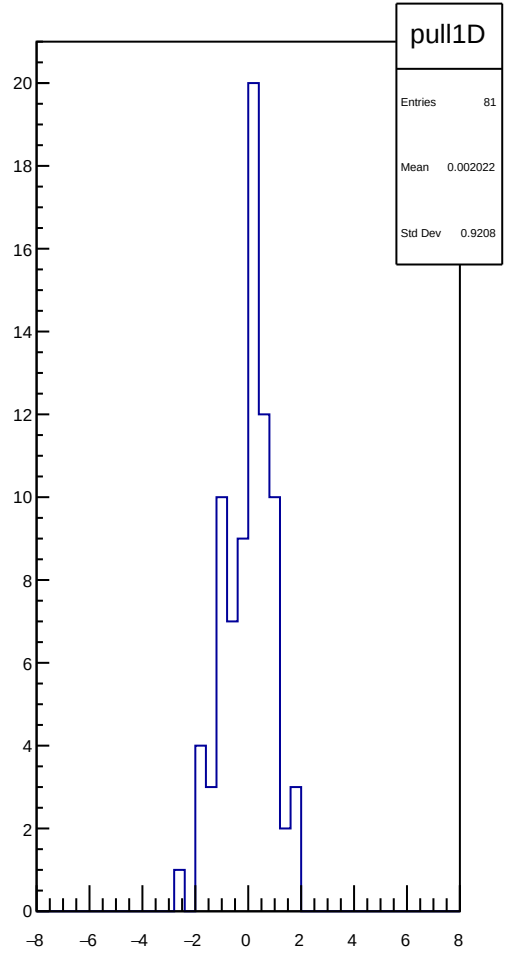

diff_bpm4aX_rms vs run
χ² / ndf 1.899e+04 / 80
p0 2.476e+04 ± 19.73
30000
28000
26000
24000
22000
20000
18000

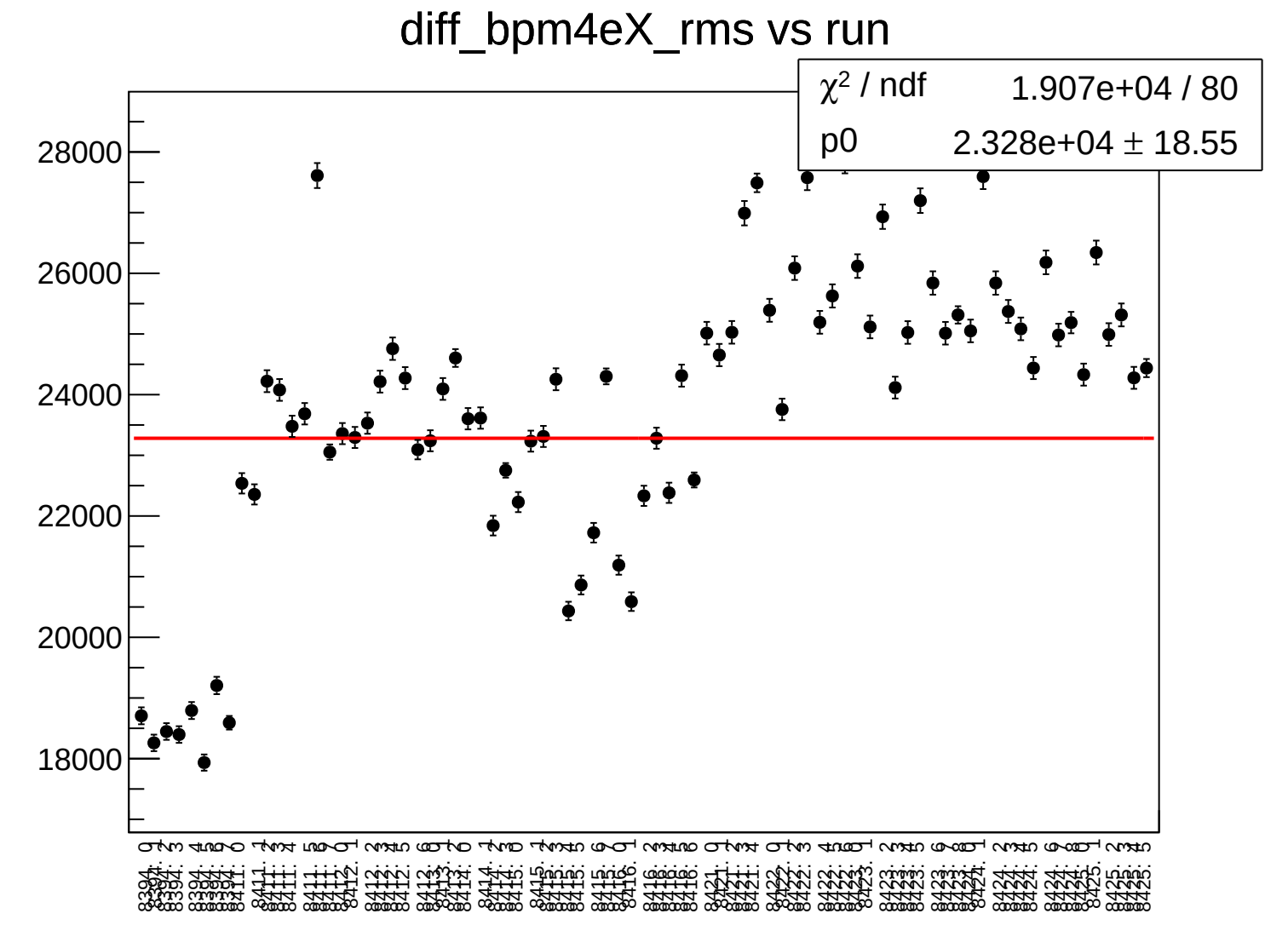

diff_bpm4aY_mean vs run
χ² / ndf 88.73 / 80
p0 30.86 ± 6.805
pull
Entries 81
Mean −83.23
Std Dev 120.3

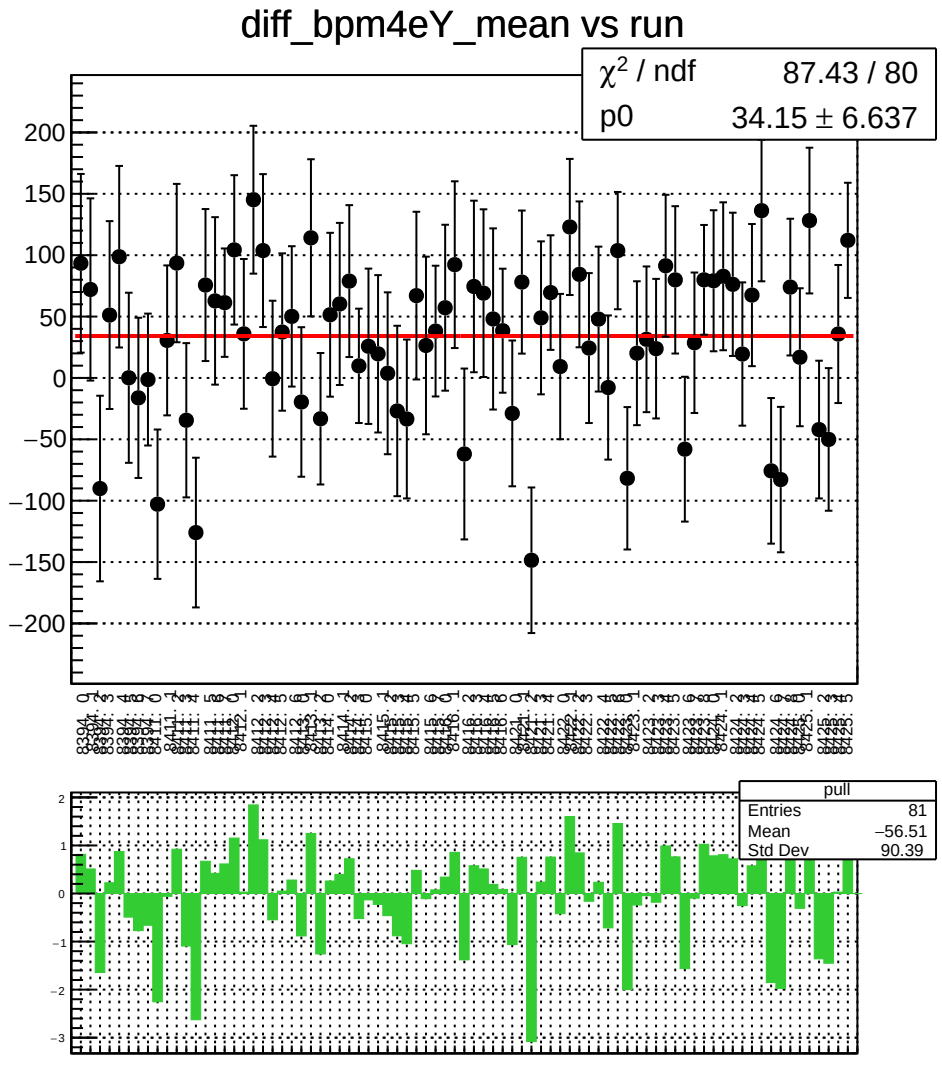

pull1D
Entries 81
Mean −0.01521
Std Dev 1.047

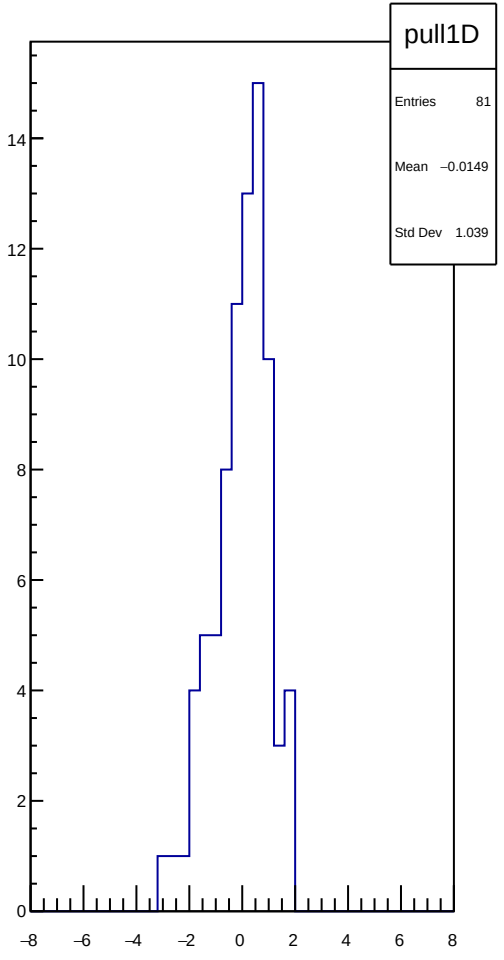

diff_bpm4aY_rms vs run
χ² / ndf 9548 / 80
p0 6058 ± 4.812
7500
7000
6500
6000
5500

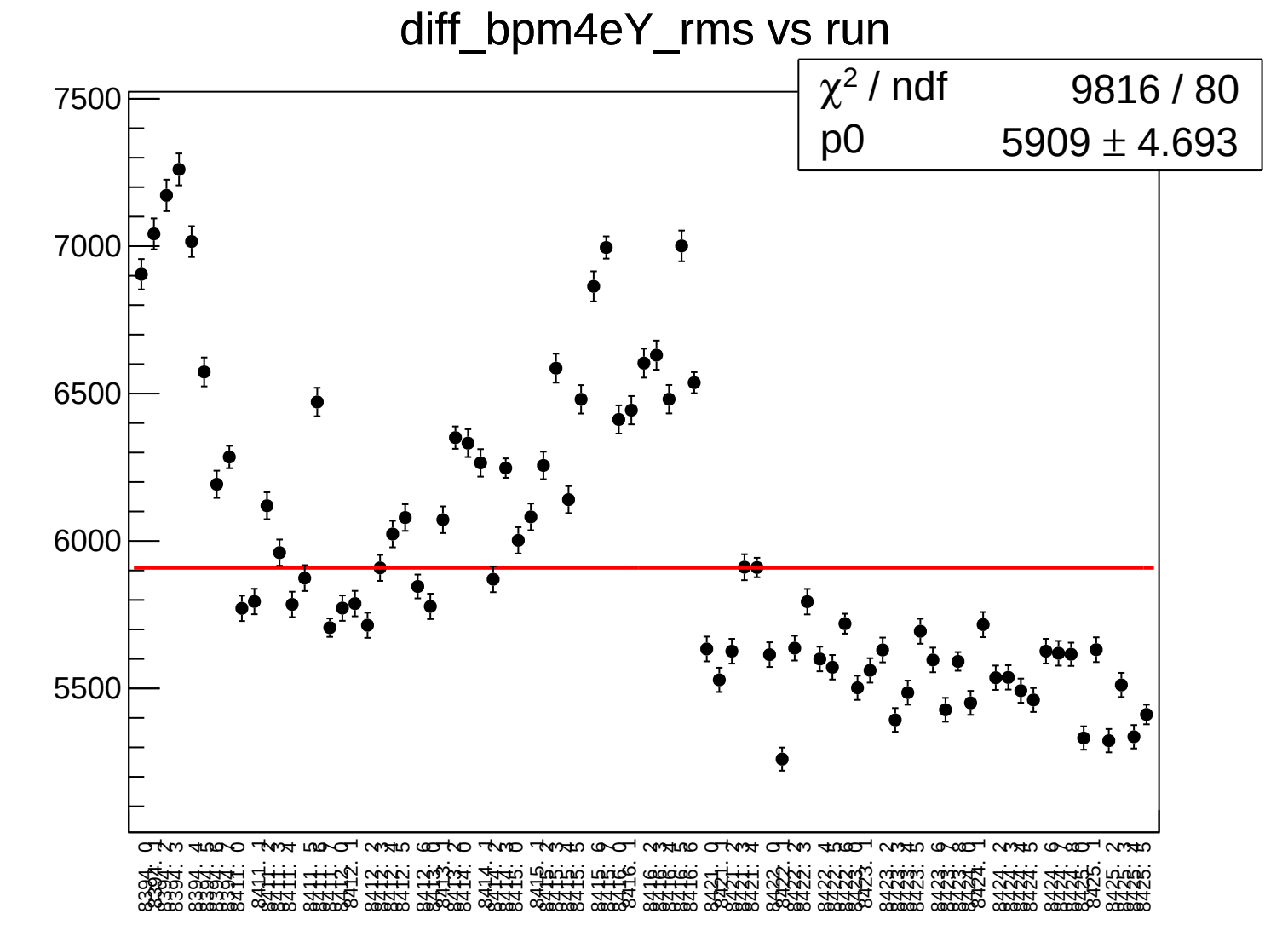

diff_bpm4eX_mean vs run
χ² / ndf 68.67 / 80
p0 −105.6 ± 26.23
pull
Entries 81
Mean −1270
Std Dev 1309

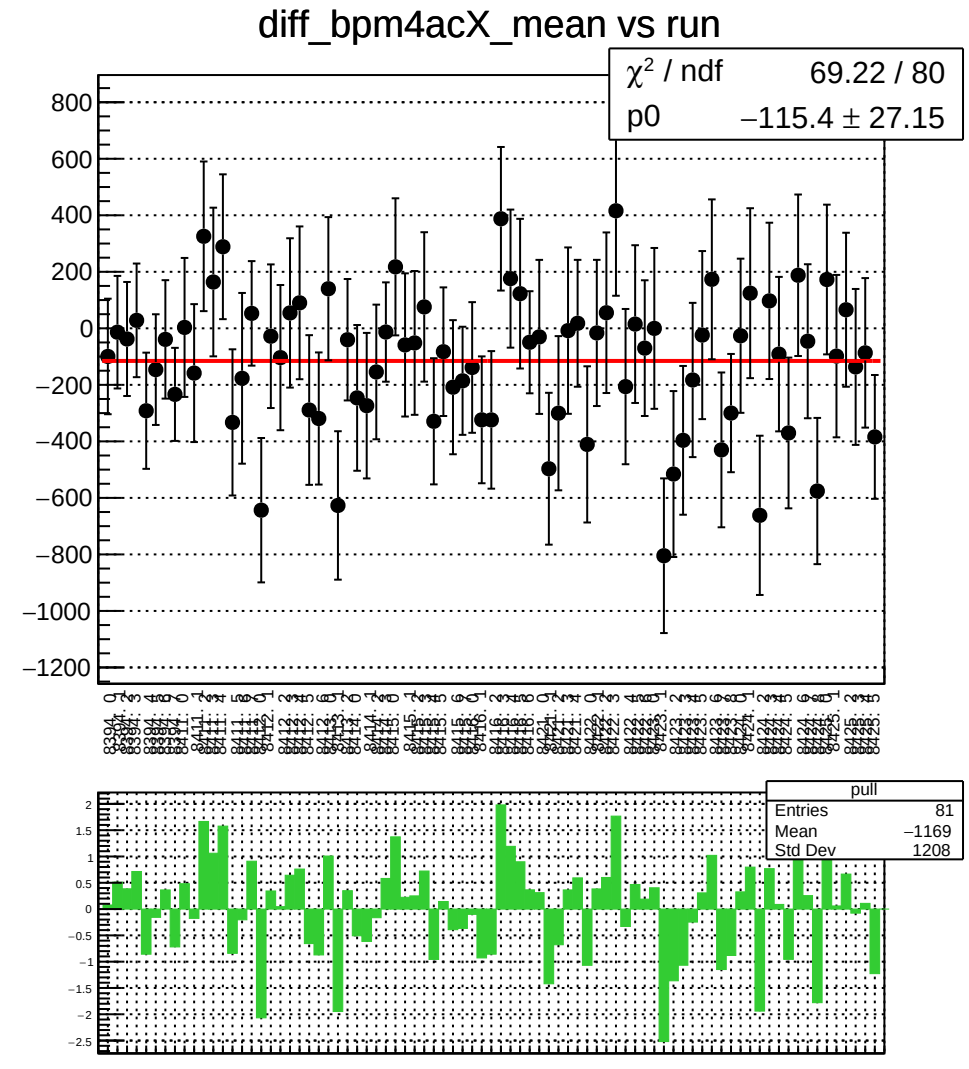

pull1D
Entries 81
Mean 0.002022
Std Dev 0.9208

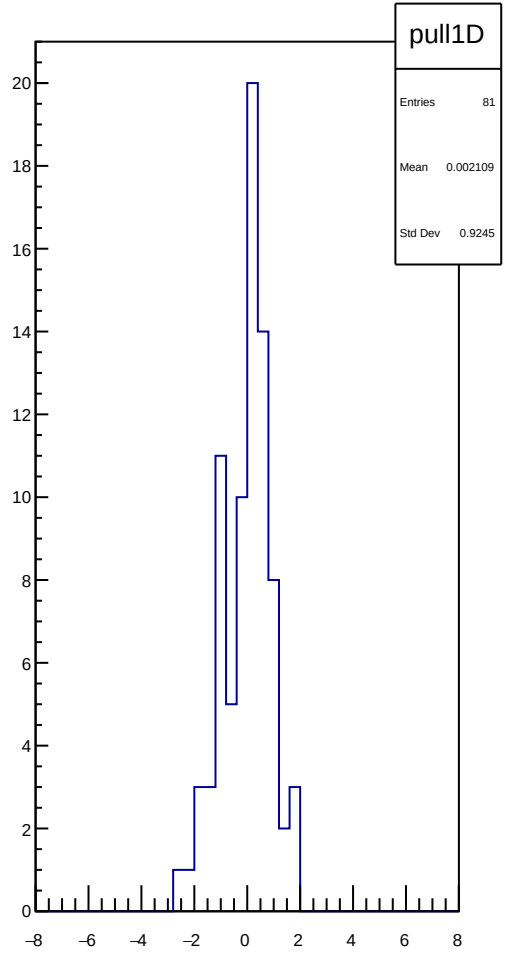

diff_bpm4eX_rms vs run
χ² / ndf 1.907e+04 / 80
p0 2.328e+04 ± 18.55
28000
26000
24000
22000
20000
18000

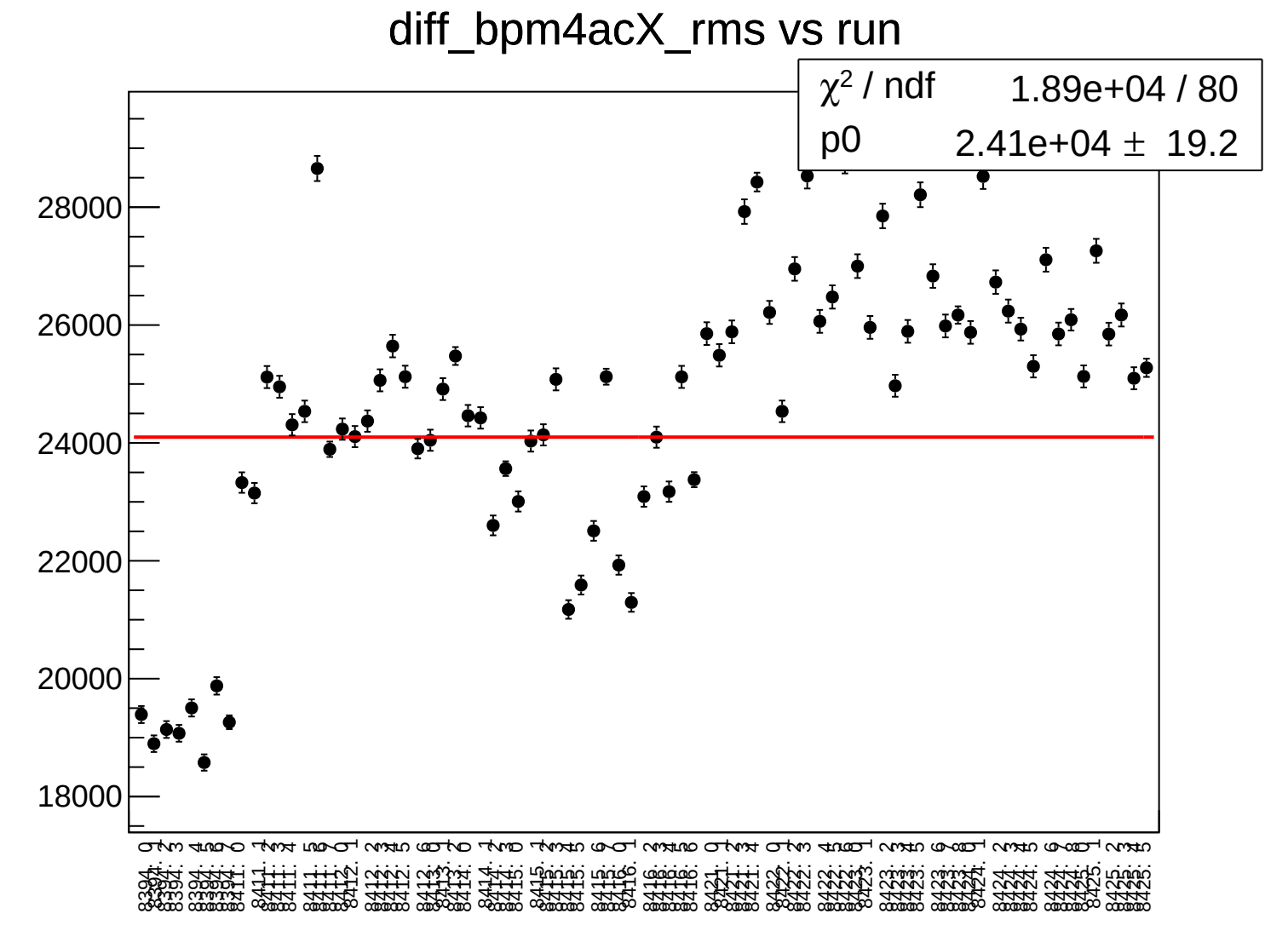

diff_bpm4eY_mean vs run
χ² / ndf 87.43 / 80
p0 34.15 ± 6.637
pull
Entries 81
Mean −56.51
Std Dev 90.39

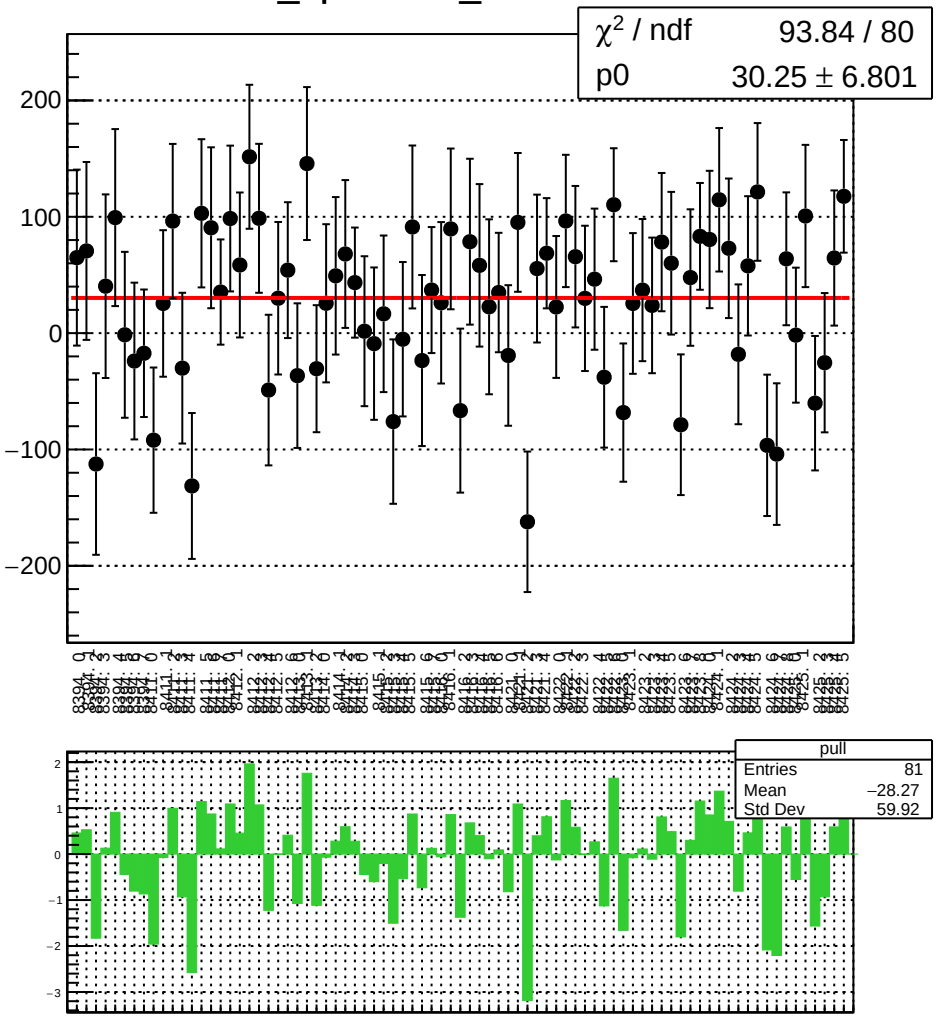

pull1D
Entries 81
Mean −0.0149
Std Dev 1.039

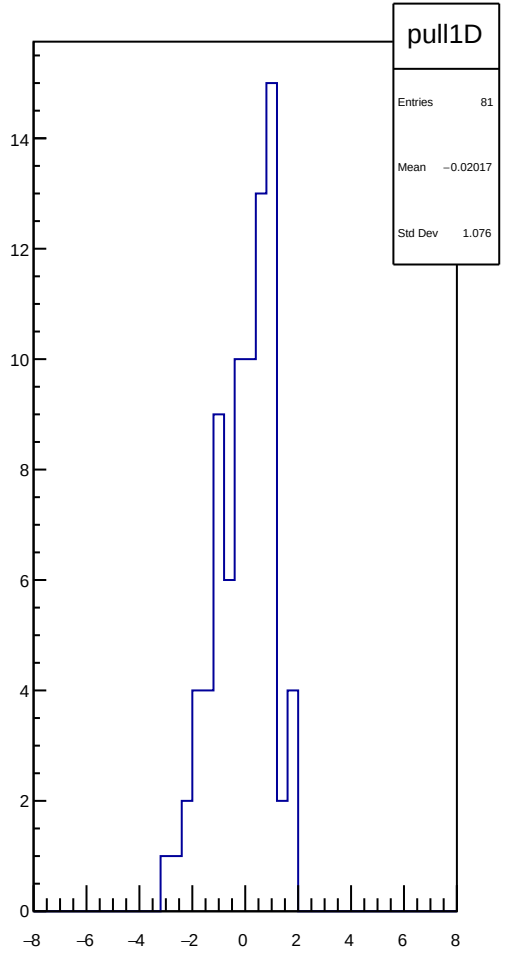

diff_bpm4eY_rms vs run
χ^2 / ndf 9816 / 80
p0 5909 ± 4.693
7500
7000
6500
6000
5500

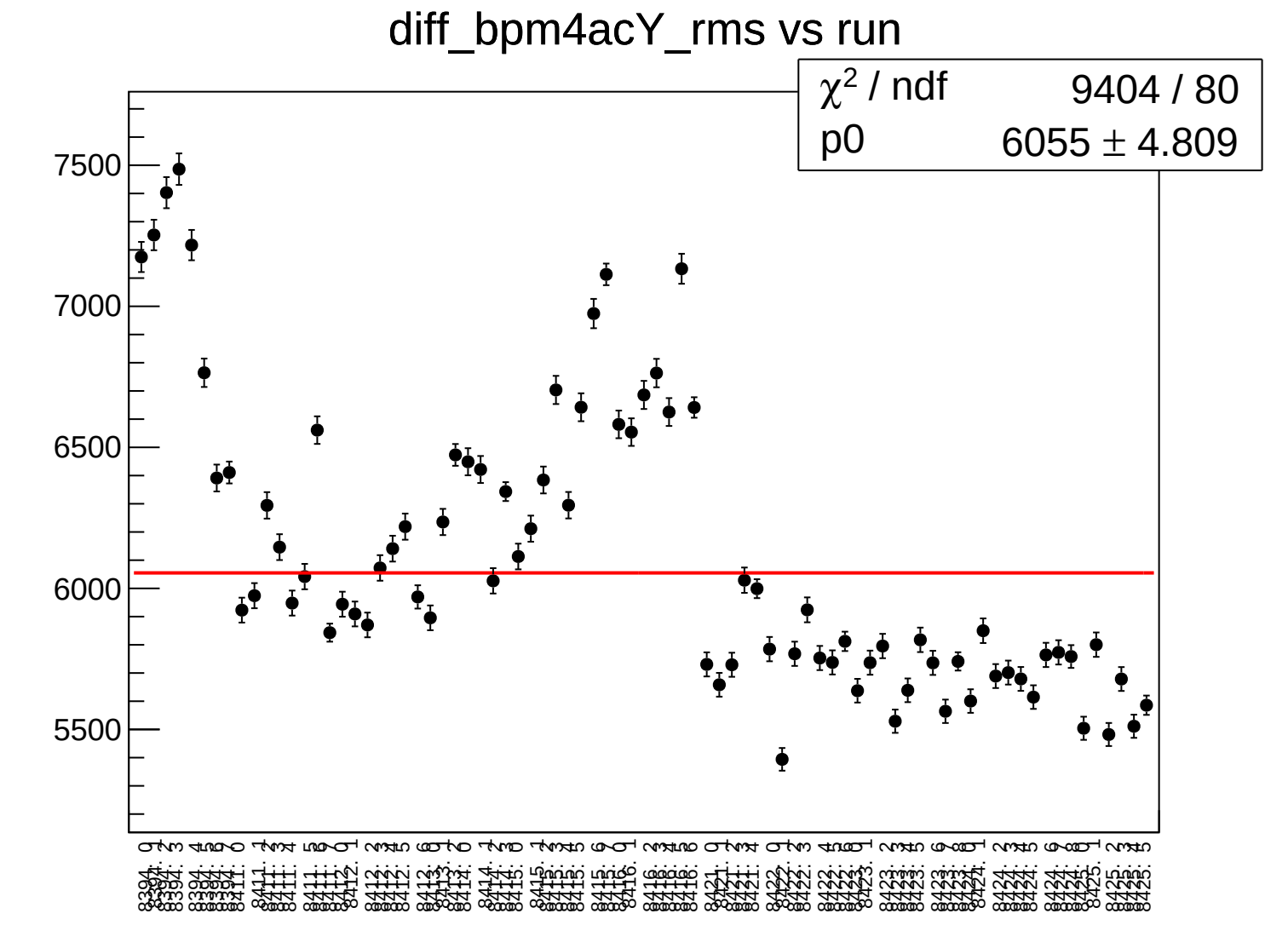

diff_bpm4acX_mean vs run
χ^2 / ndf 69.22 / 80
p0 −115.4 ± 27.15
pull
Entries 81
Mean −1169
Std Dev 1208

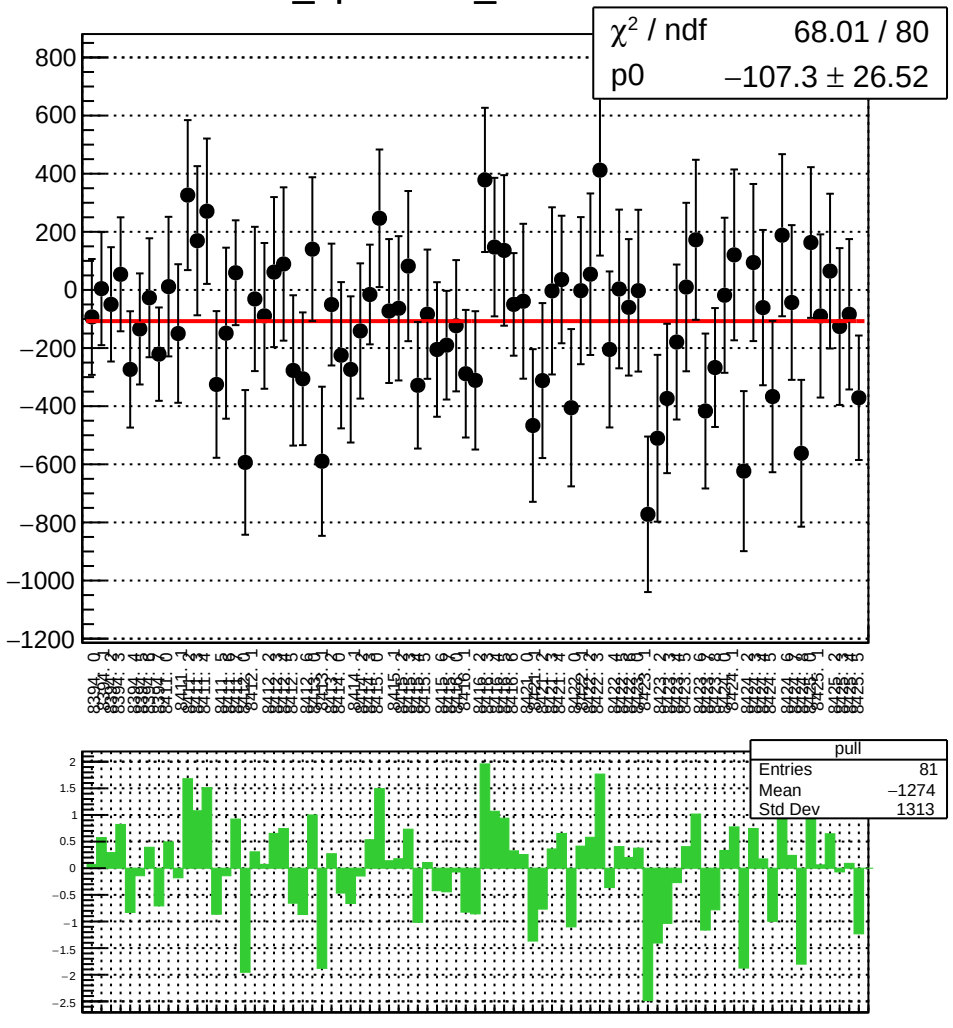

pull1D
Entries 81
Mean 0.002109
Std Dev 0.9245

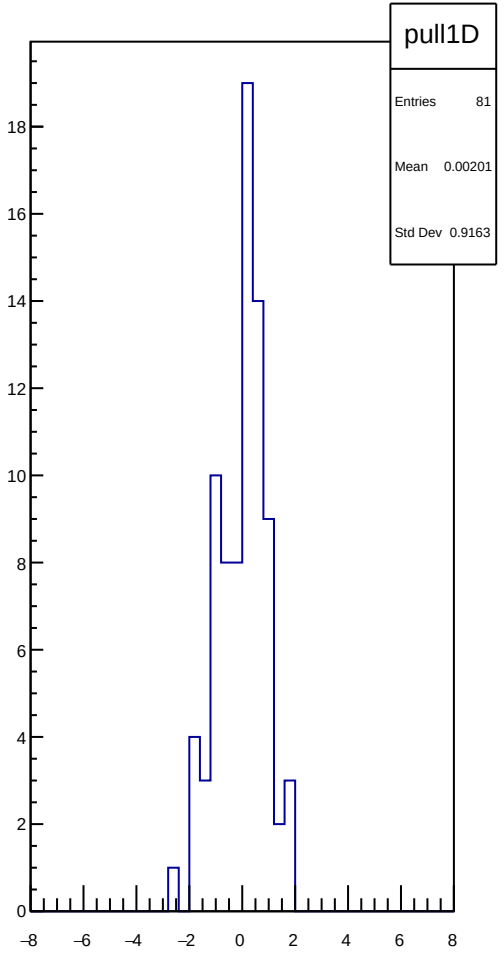

diff_bpm4acX_rms vs run
χ² / ndf 1.89e+04 / 80
p0 2.41e+04 ± 19.2
28000
26000
24000
22000
20000
18000

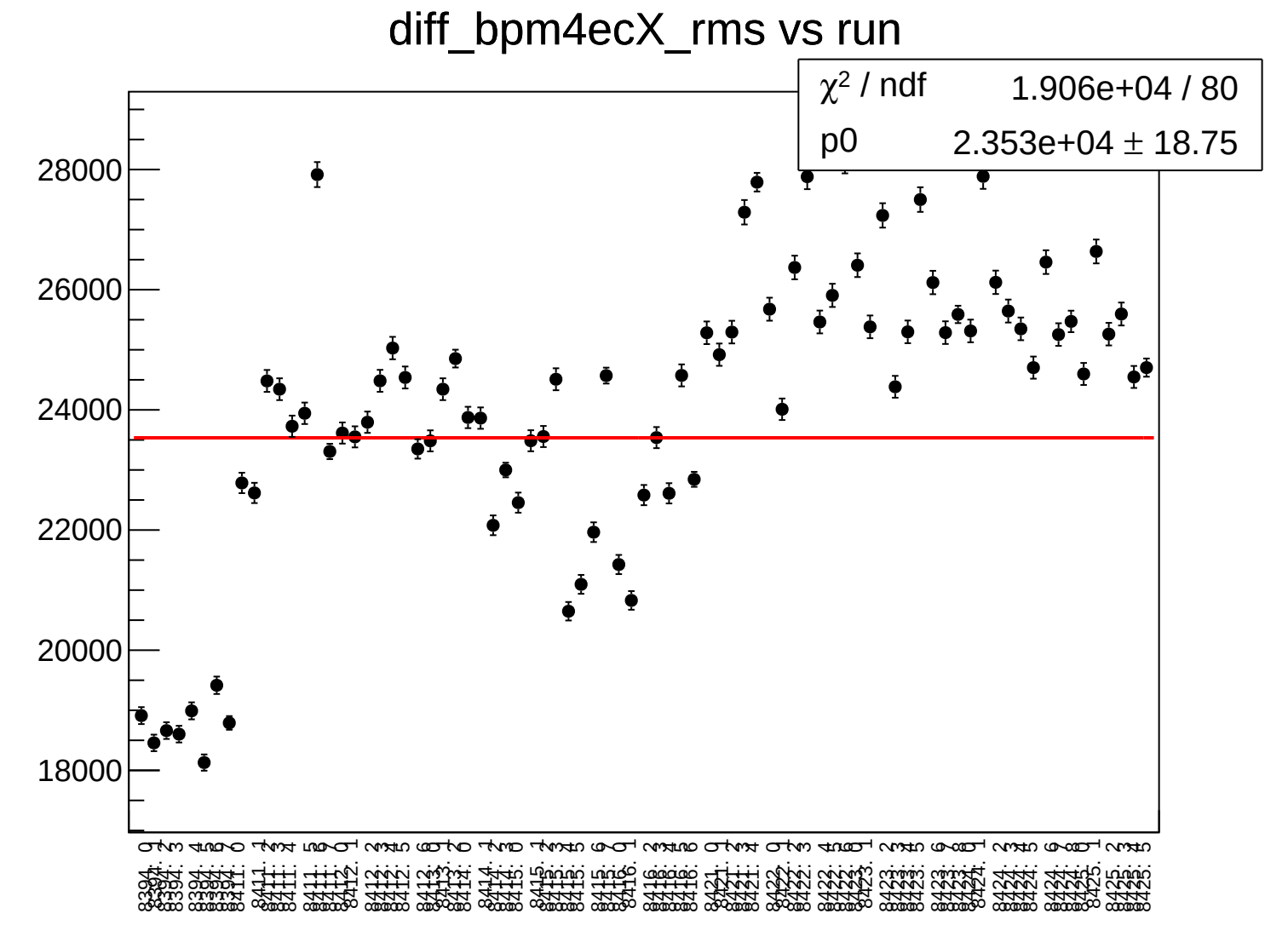

diff_bpm4acY_mean vs run
χ² / ndf 93.84 / 80
p0 30.25 ± 6.801
200
100
0
−100
−200
pull
Entries 81
Mean −28.27
Std Dev 59.92
2
1
0
−1
−2
−3

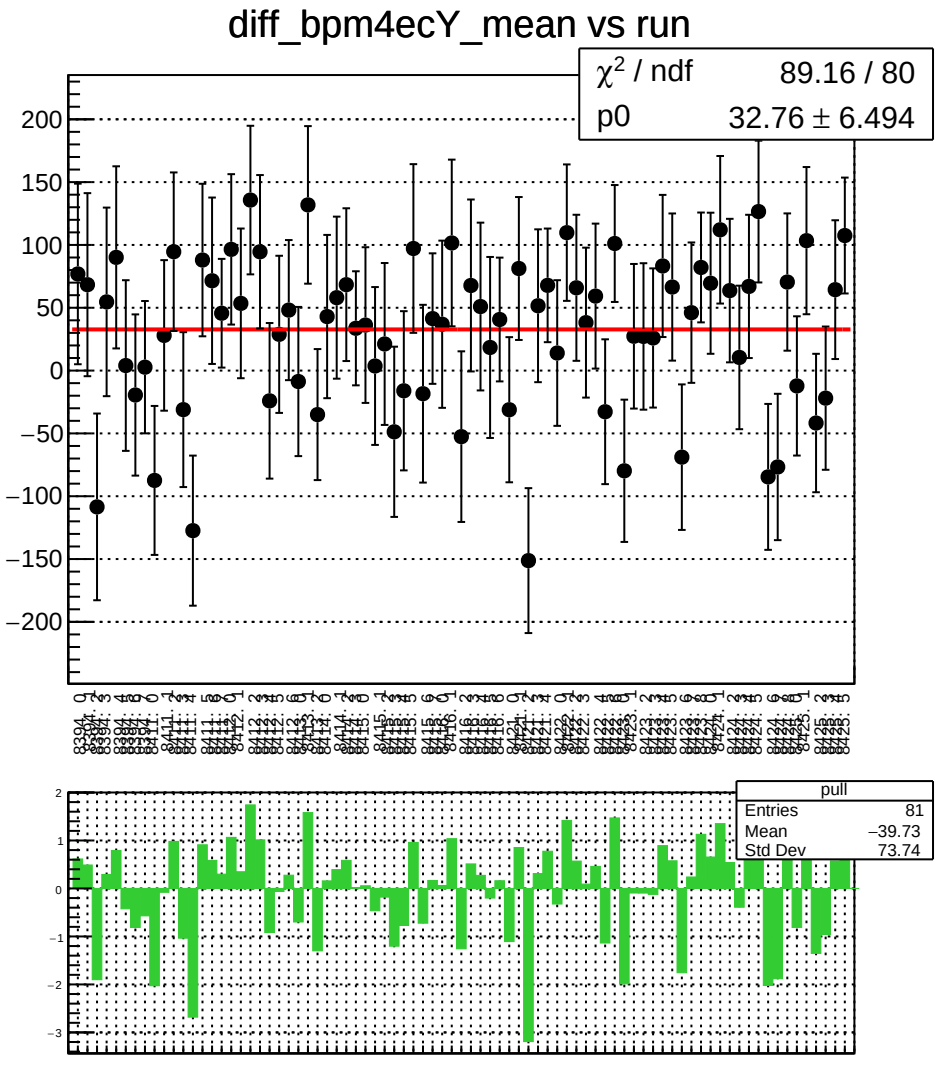

pull1D
Entries 81
Mean −0.02017
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

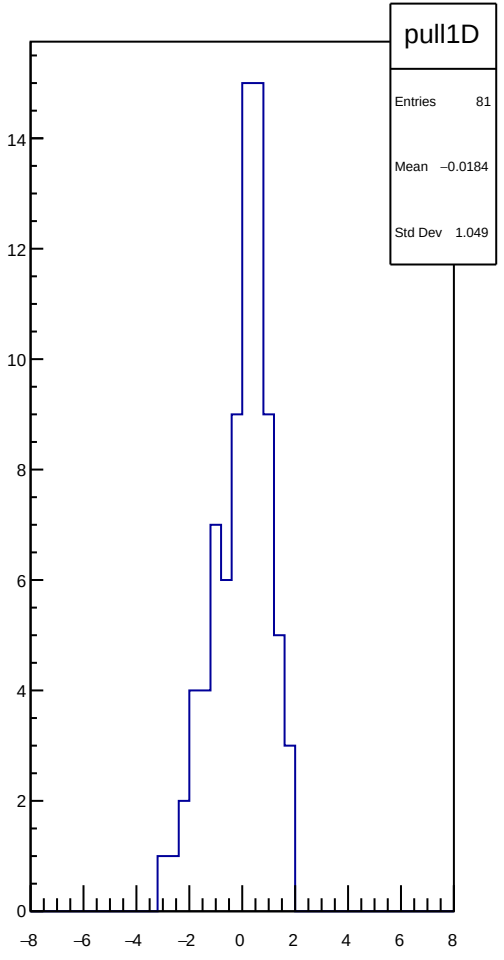

diff_bpm4acY_rms vs run
χ² / ndf 9404 / 80
p0 6055 ± 4.809
7500
7000
6500
6000
5500

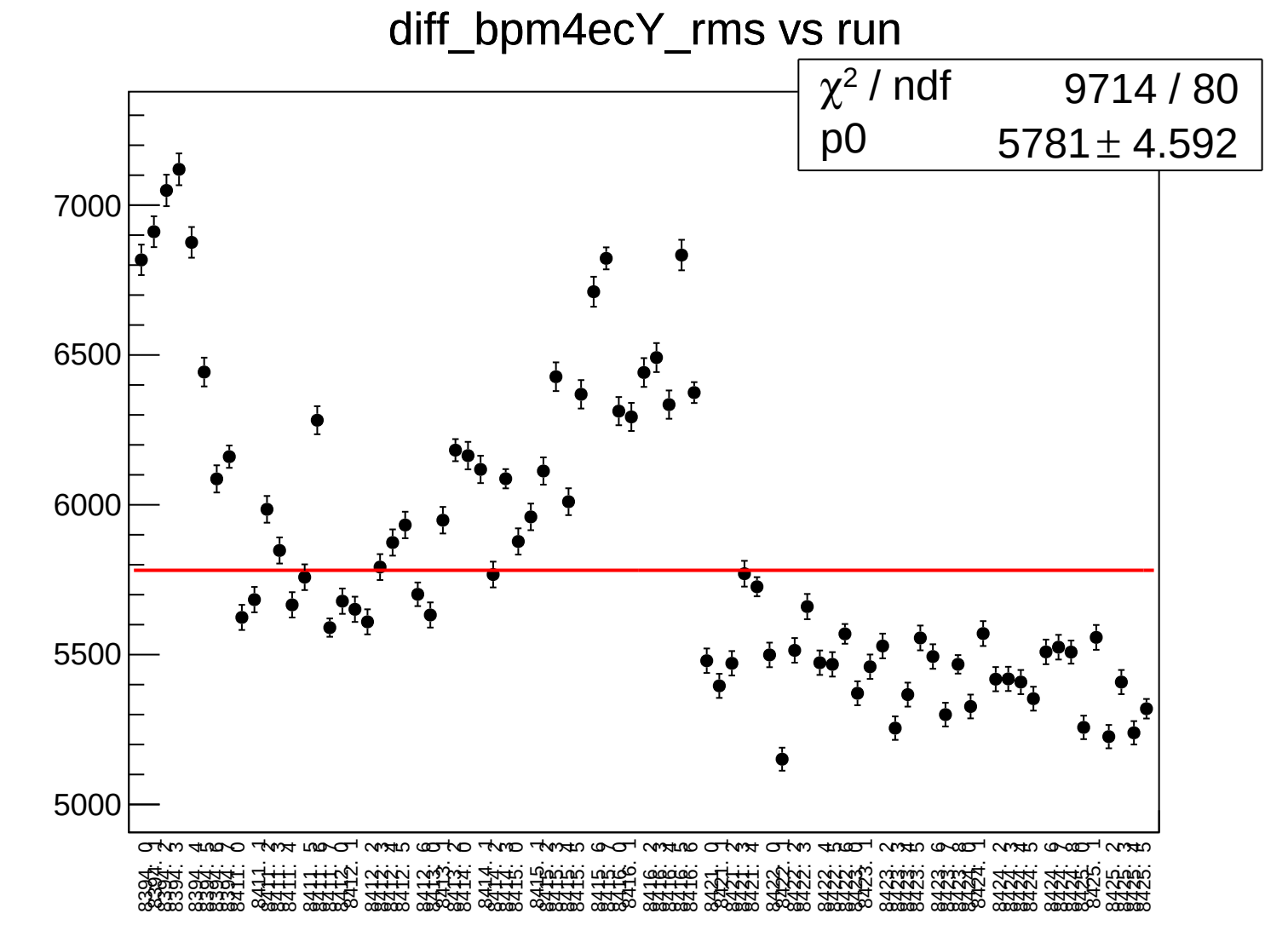

diff_bpm4ecX_mean vs run
χ² / ndf 68.01 / 80
p0 −107.3 ± 26.52
pull
Entries 81
Mean −1274
Std Dev 1313

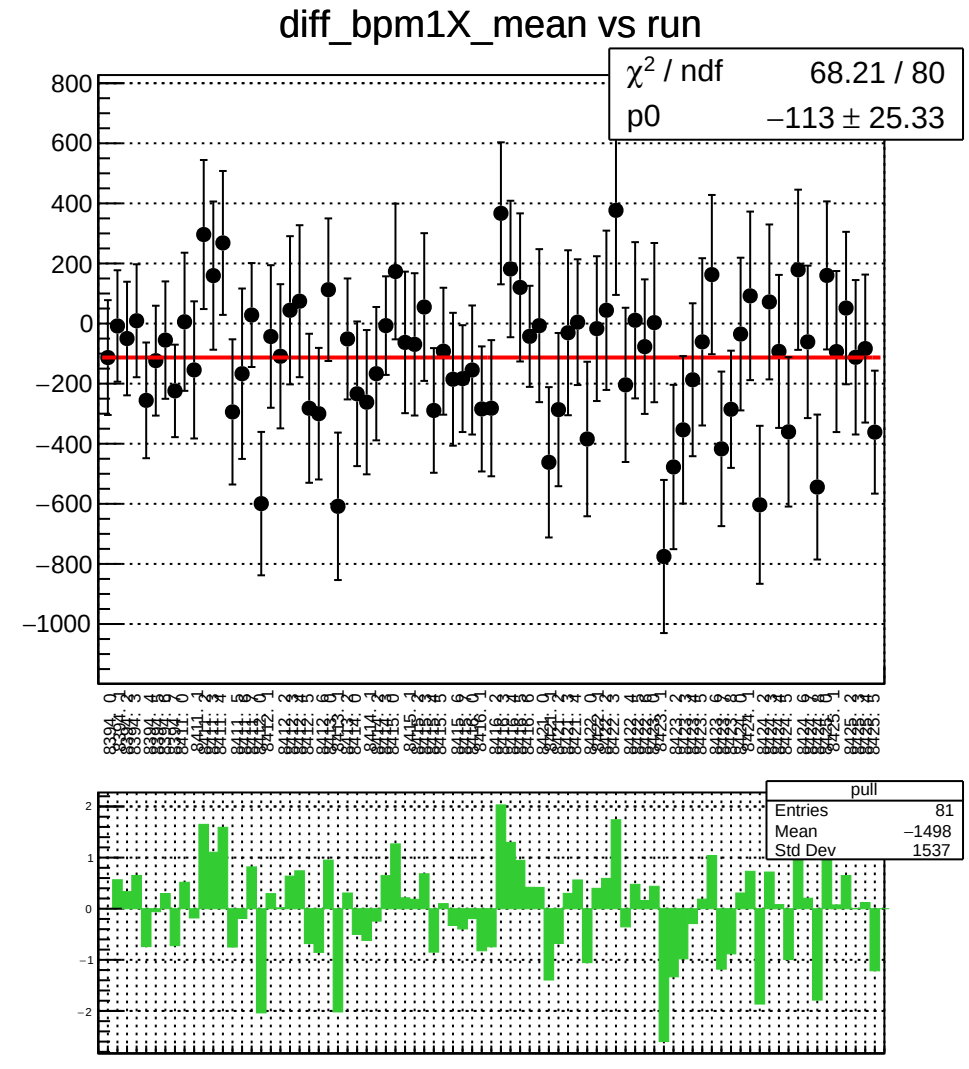

pull1D
Entries 81
Mean 0.00201
Std Dev 0.9163

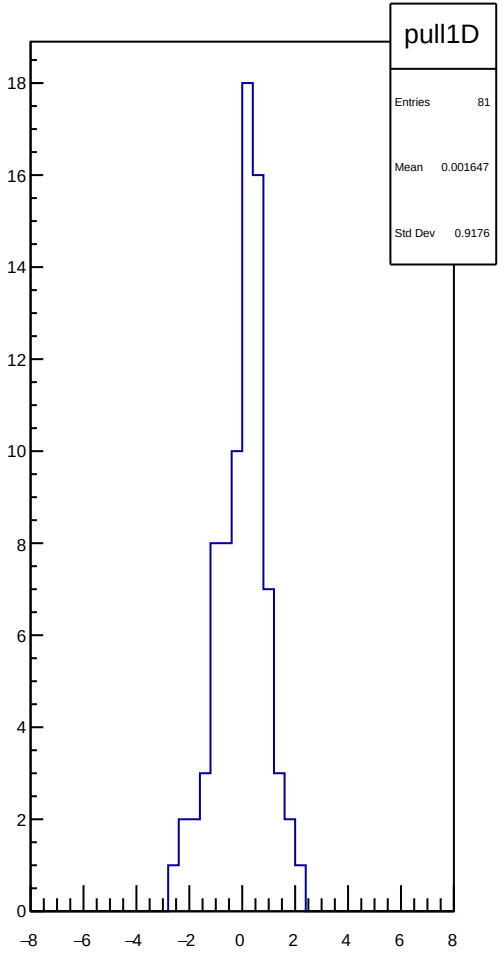

diff_bpm4ecX_rms vs run
χ² / ndf 1.906e+04 / 80
p0 2.353e+04 ± 18.75
28000
26000
24000
22000
20000
18000

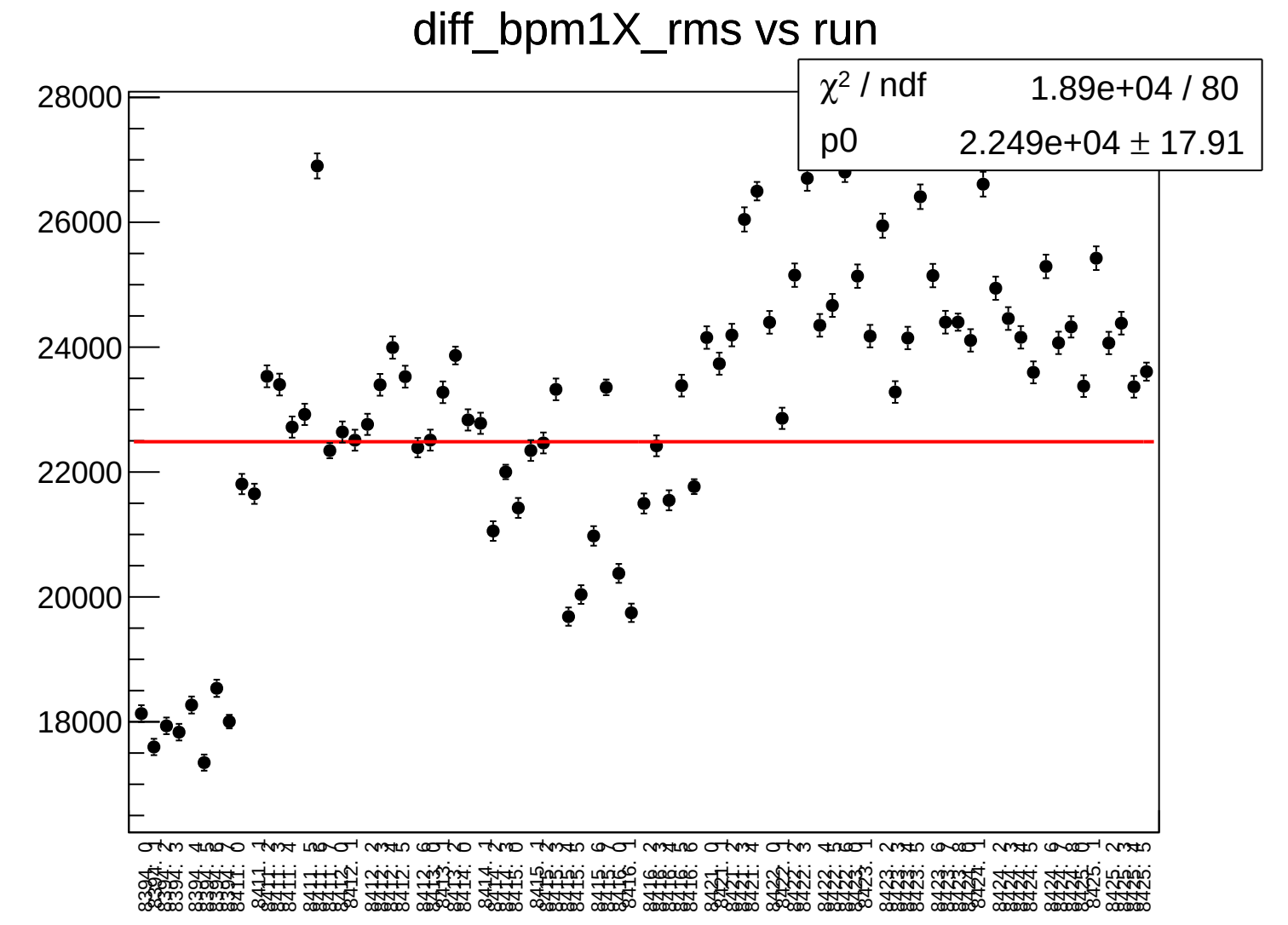

diff_bpm4ecY_mean vs run
χ² / ndf 89.16 / 80
p0 32.76 ± 6.494
pull
Entries 81
Mean −39.73
Std Dev 73.74

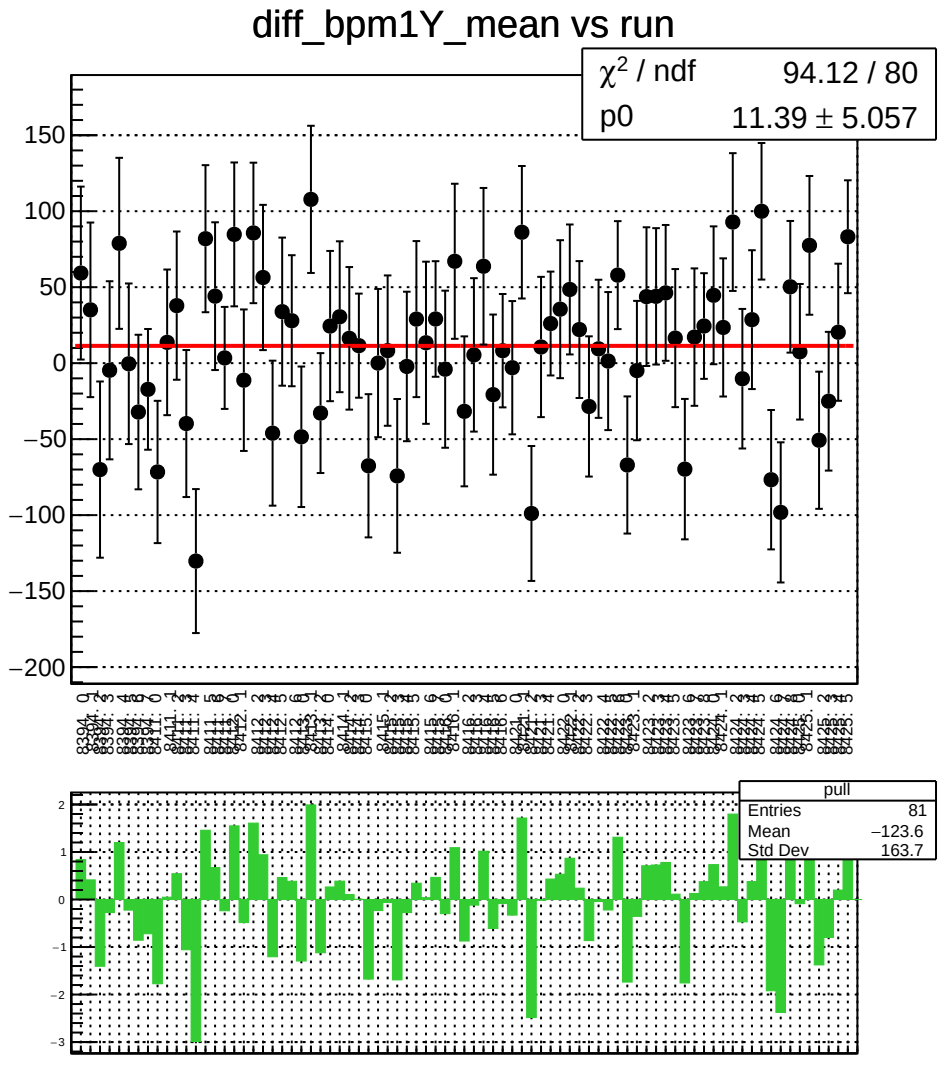

pull1D
Entries 81
Mean −0.0184
Std Dev 1.049

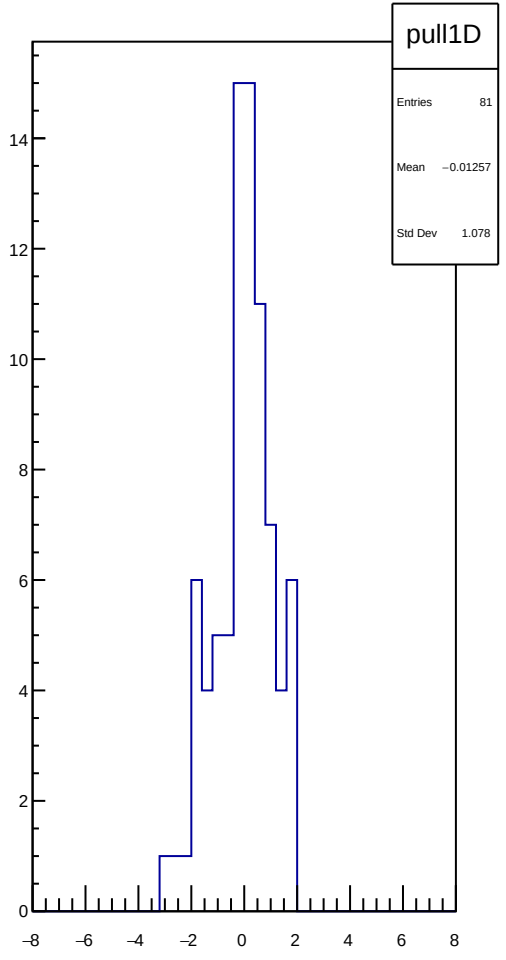

diff_bpm4ecY_rms vs run
χ² / ndf 9714 / 80
p0 5781 ± 4.592
7000
6500
6000
5500
5000

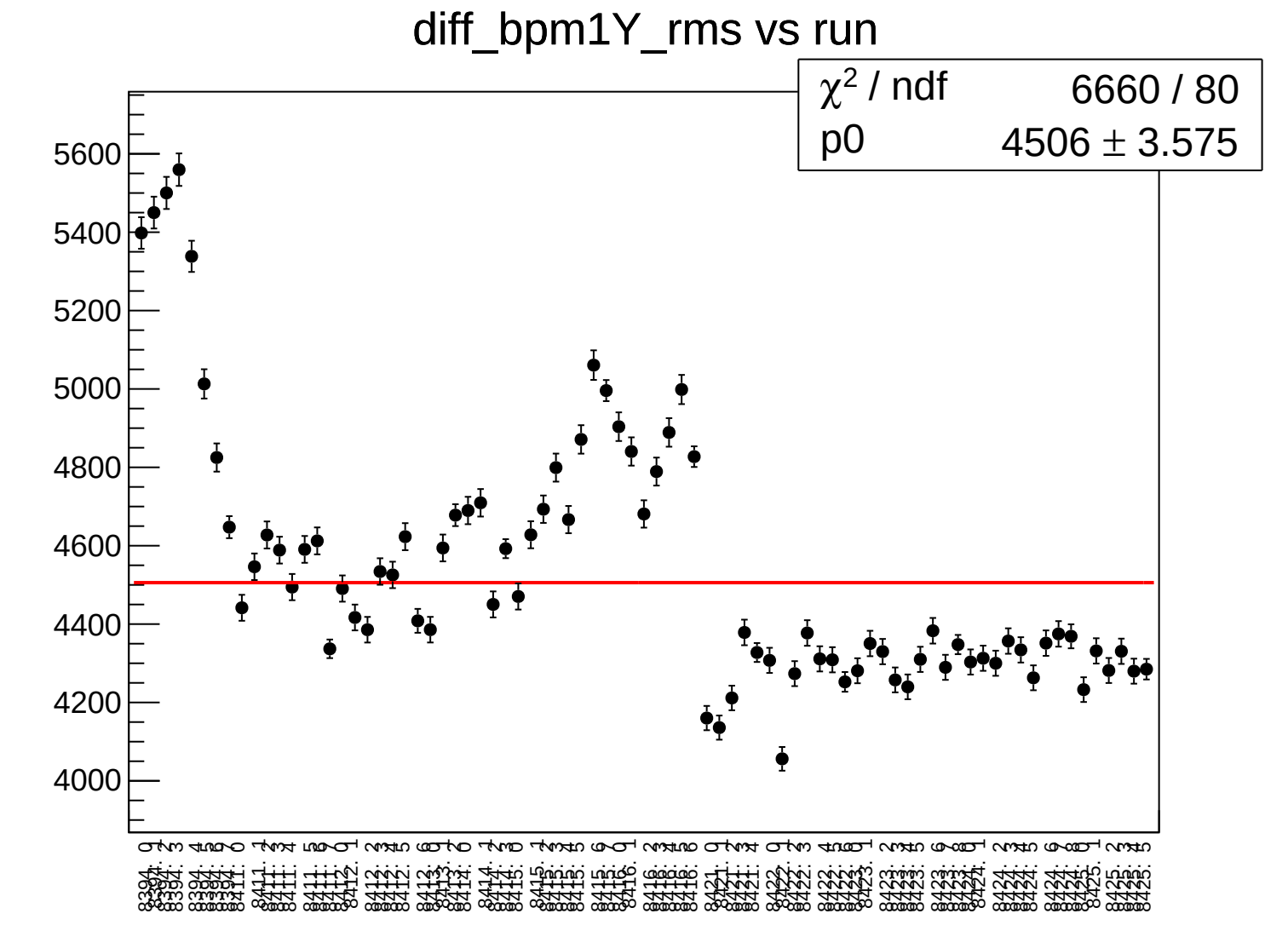

diff_bpm1X_mean vs run
χ^2 / ndf 68.21 / 80
p0 −113 ± 25.33
pull
Entries 81
Mean −1498
Std Dev 1537

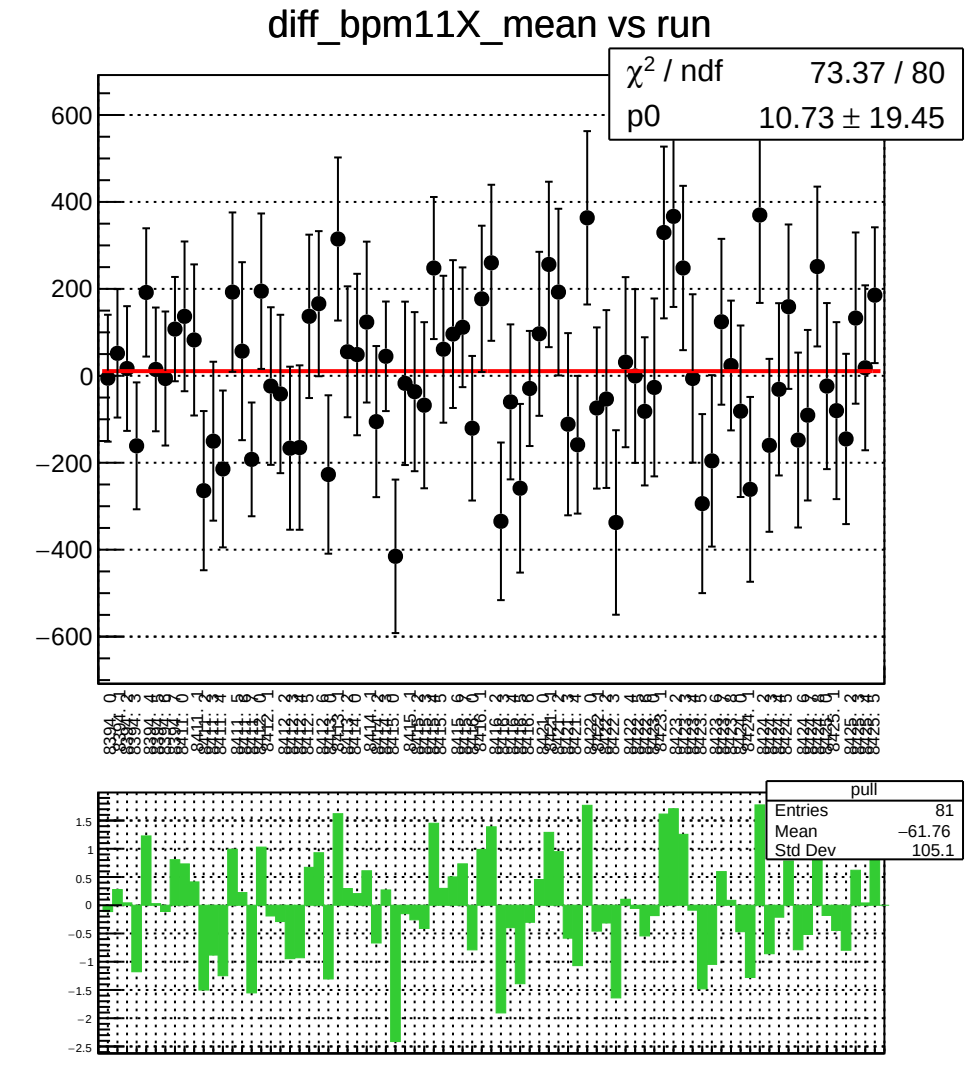

pull1D
Entries 81
Mean 0.001647
Std Dev 0.9176

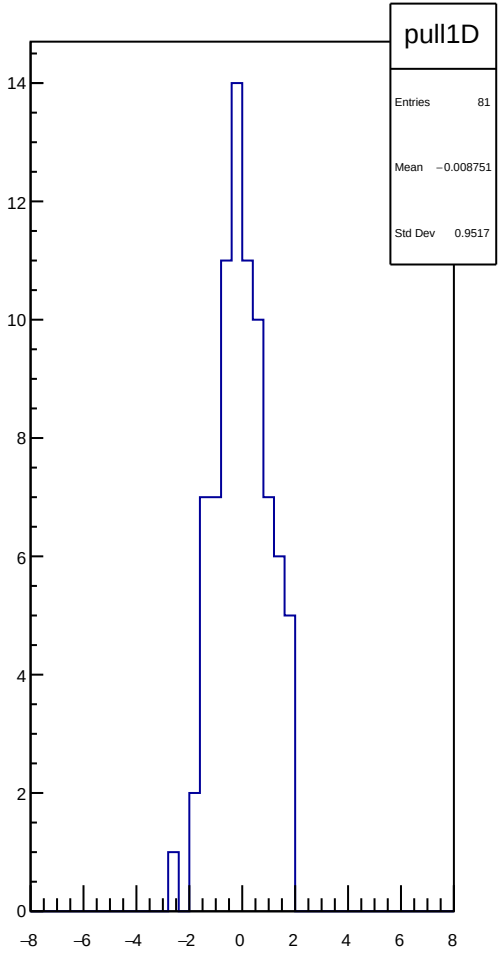

diff_bpm1X_rms vs run
χ² / ndf 1.89e+04 / 80
p0 2.249e+04 ± 17.91
28000
26000
24000
22000
20000
18000

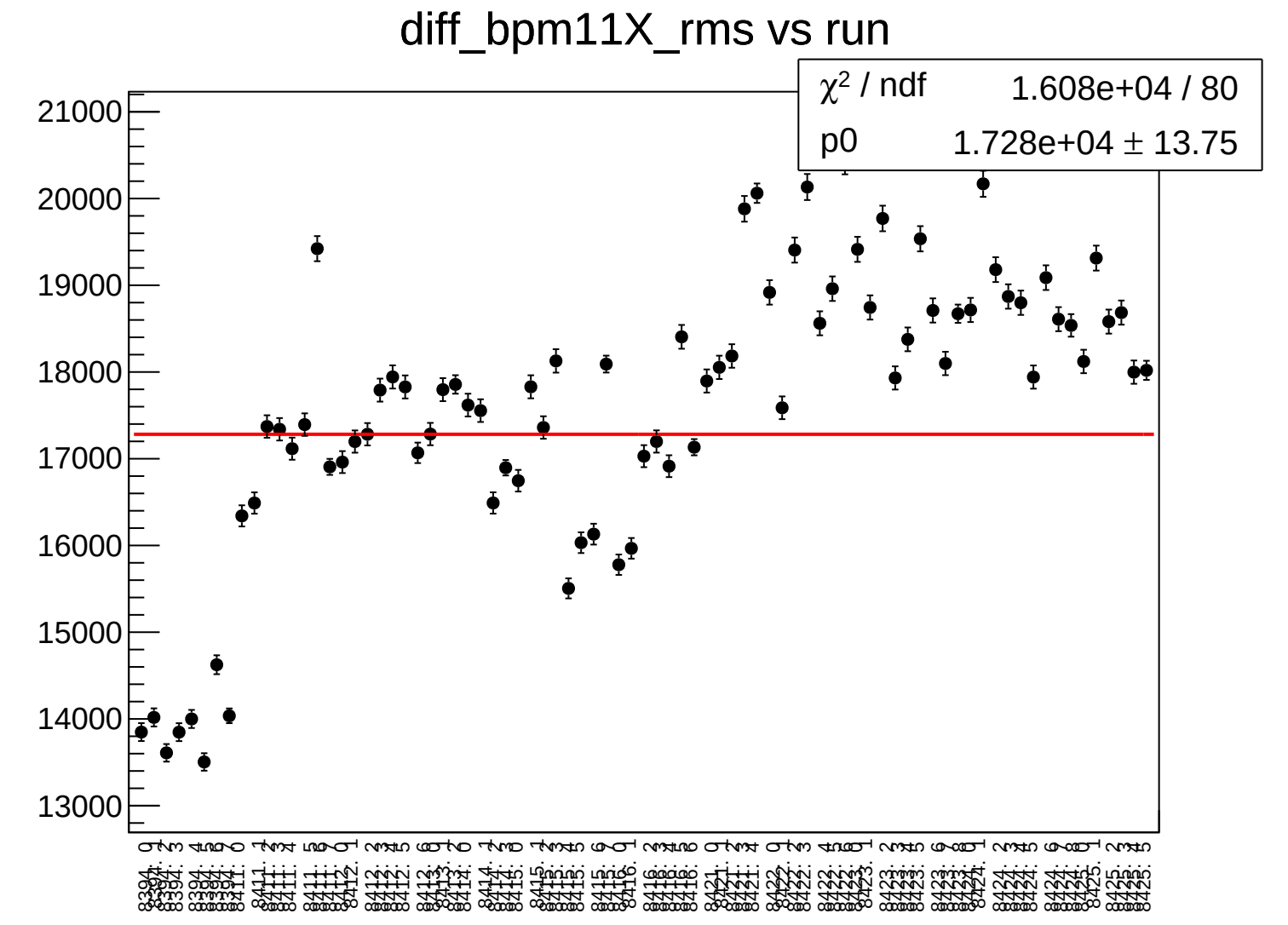

diff_bpm1Y_mean vs run
χ^2 / ndf 94.12 / 80
p0 11.39 ± 5.057
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −123.6
Std Dev 163.7
2
1
0
−1
−2
−3

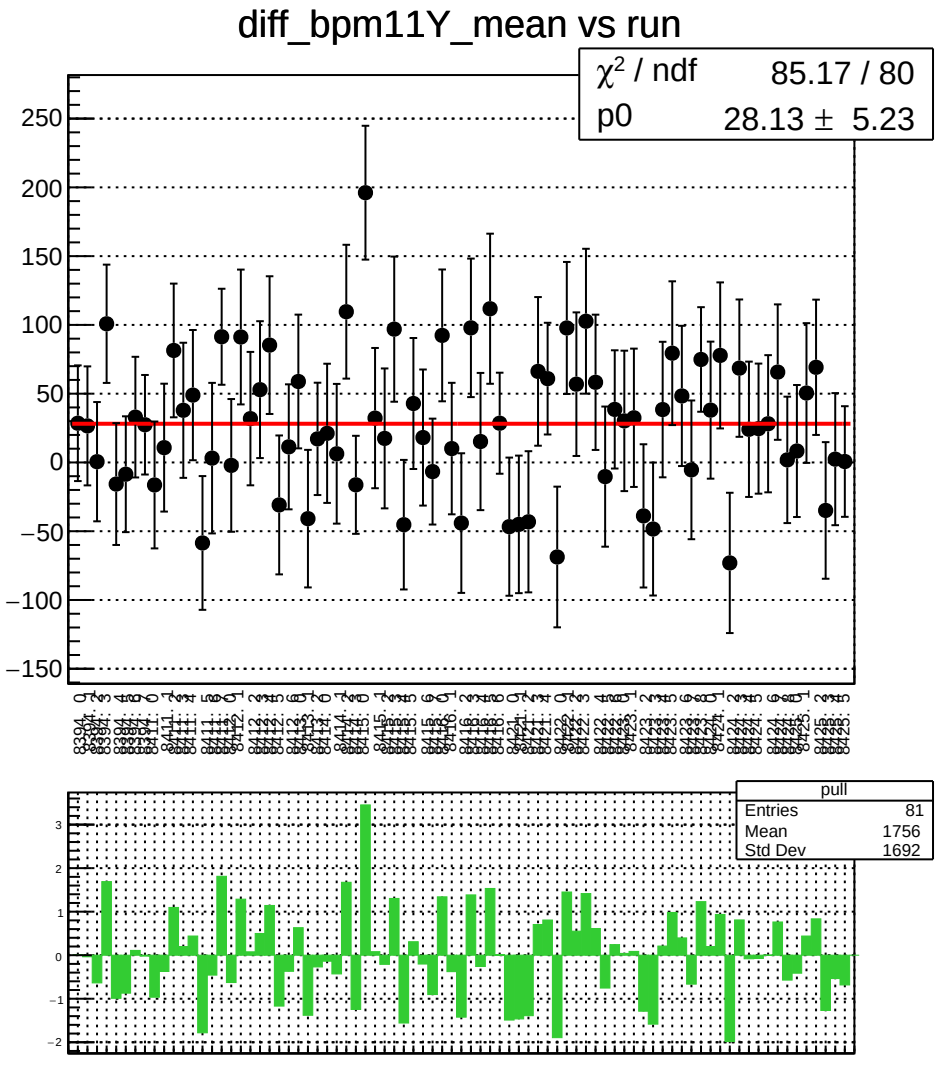

pull1D
Entries 81
Mean −0.01257
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

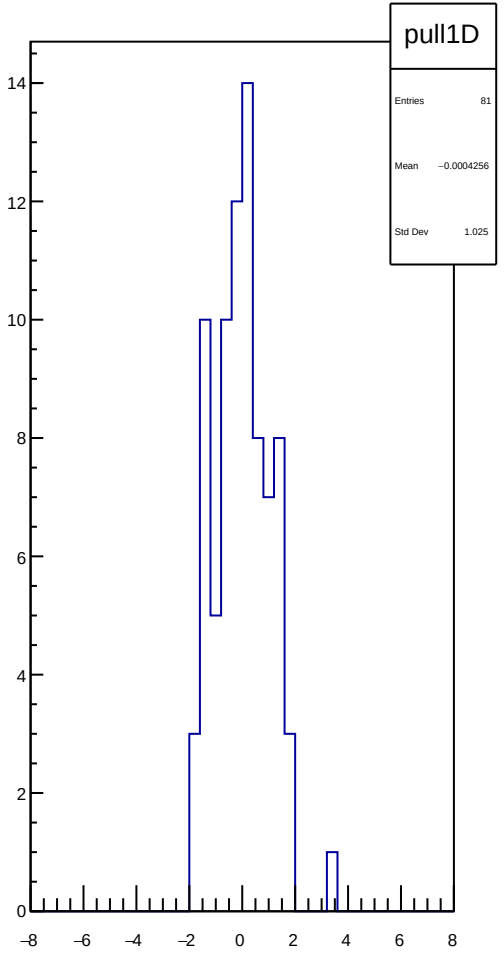

diff_bpm1Y_rms vs run
χ² / ndf 6660 / 80
p0 4506 ± 3.575
5600
5400
5200
5000
4800
4600
4400
4200
4000

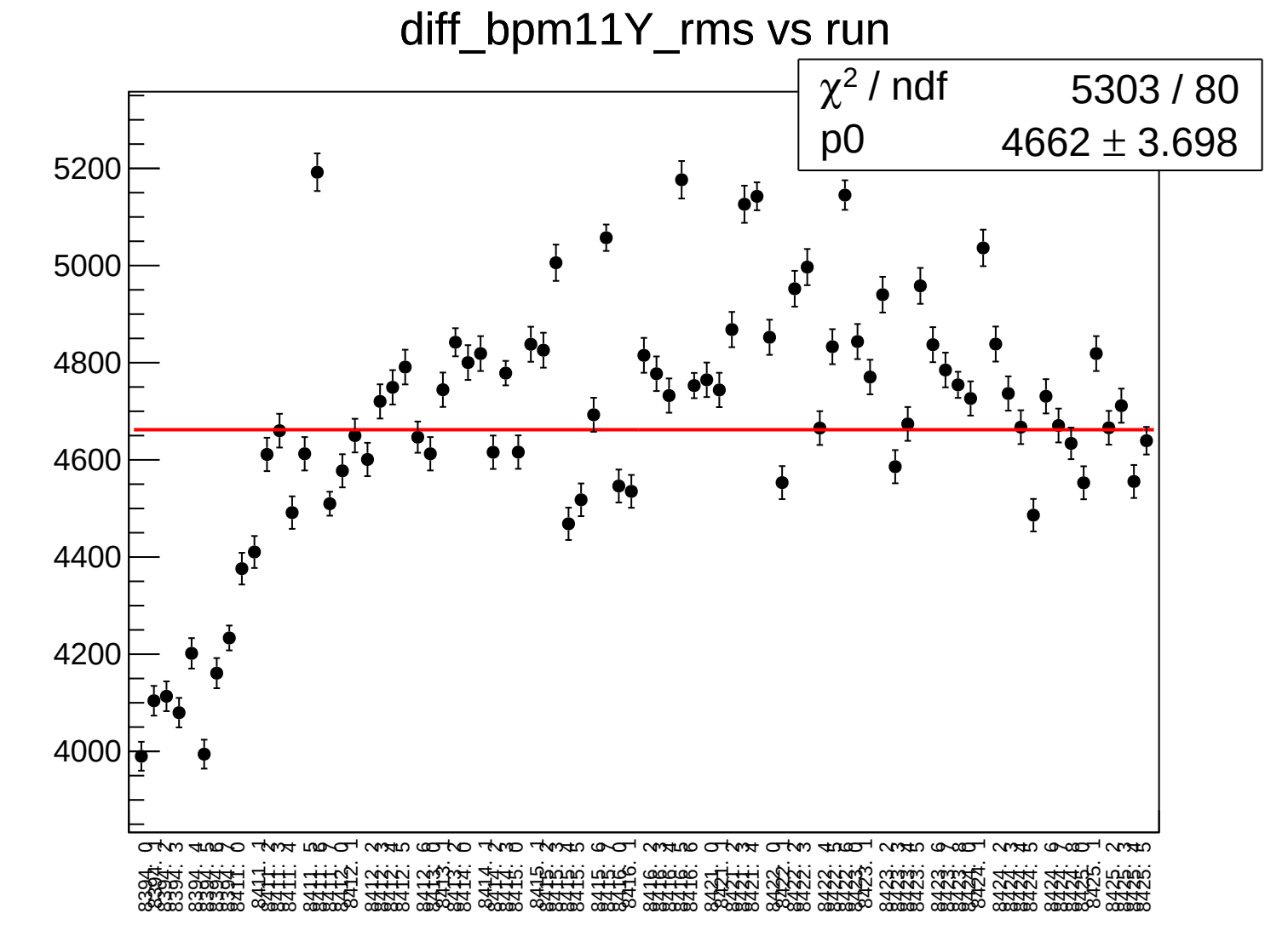

diff_bpm11X_mean vs run
χ^2 / ndf 73.37 / 80
p0 10.73 ± 19.45
pull
Entries 81
Mean −61.76
Std Dev 105.1

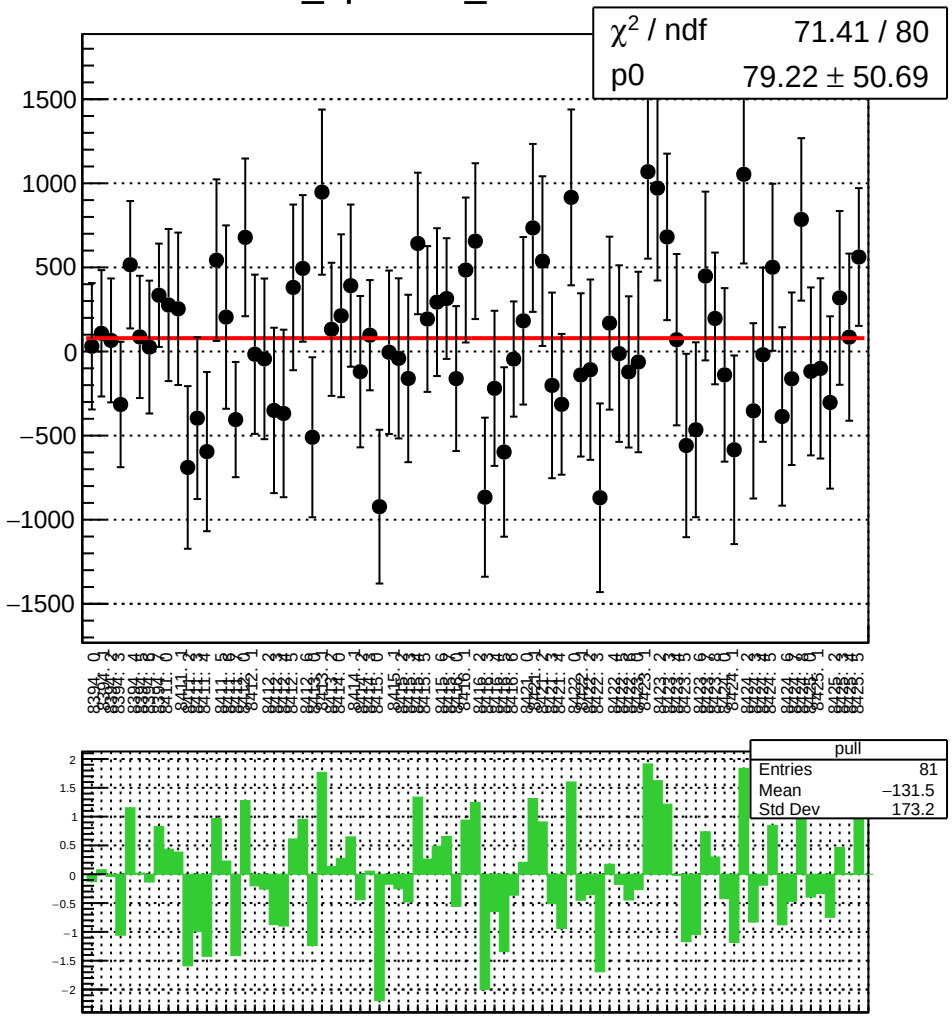

pull1D
Entries 81
Mean −0.008751
Std Dev 0.9517

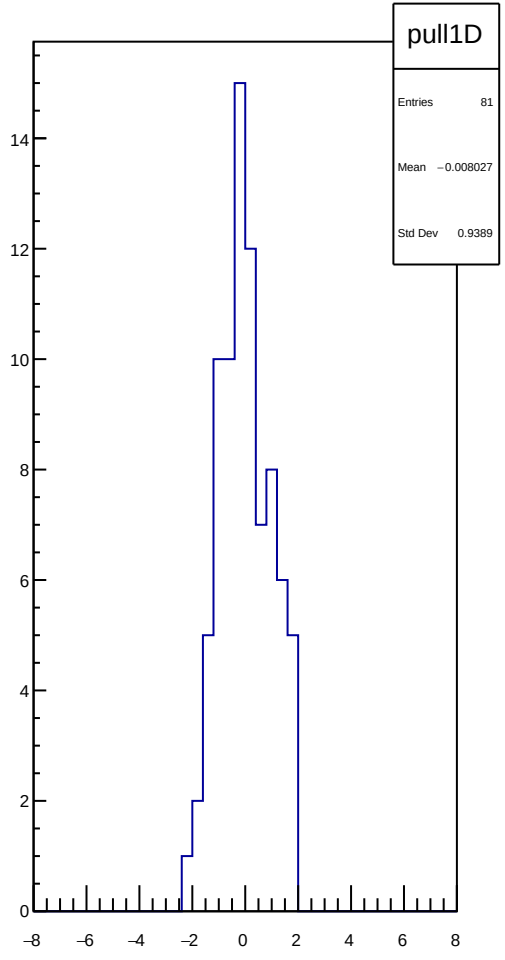

diff_bpm11X_rms vs run
χ² / ndf 1.608e+04 / 80
p0 1.728e+04 ± 13.75
21000
20000
19000
18000
17000
16000
15000
14000
13000

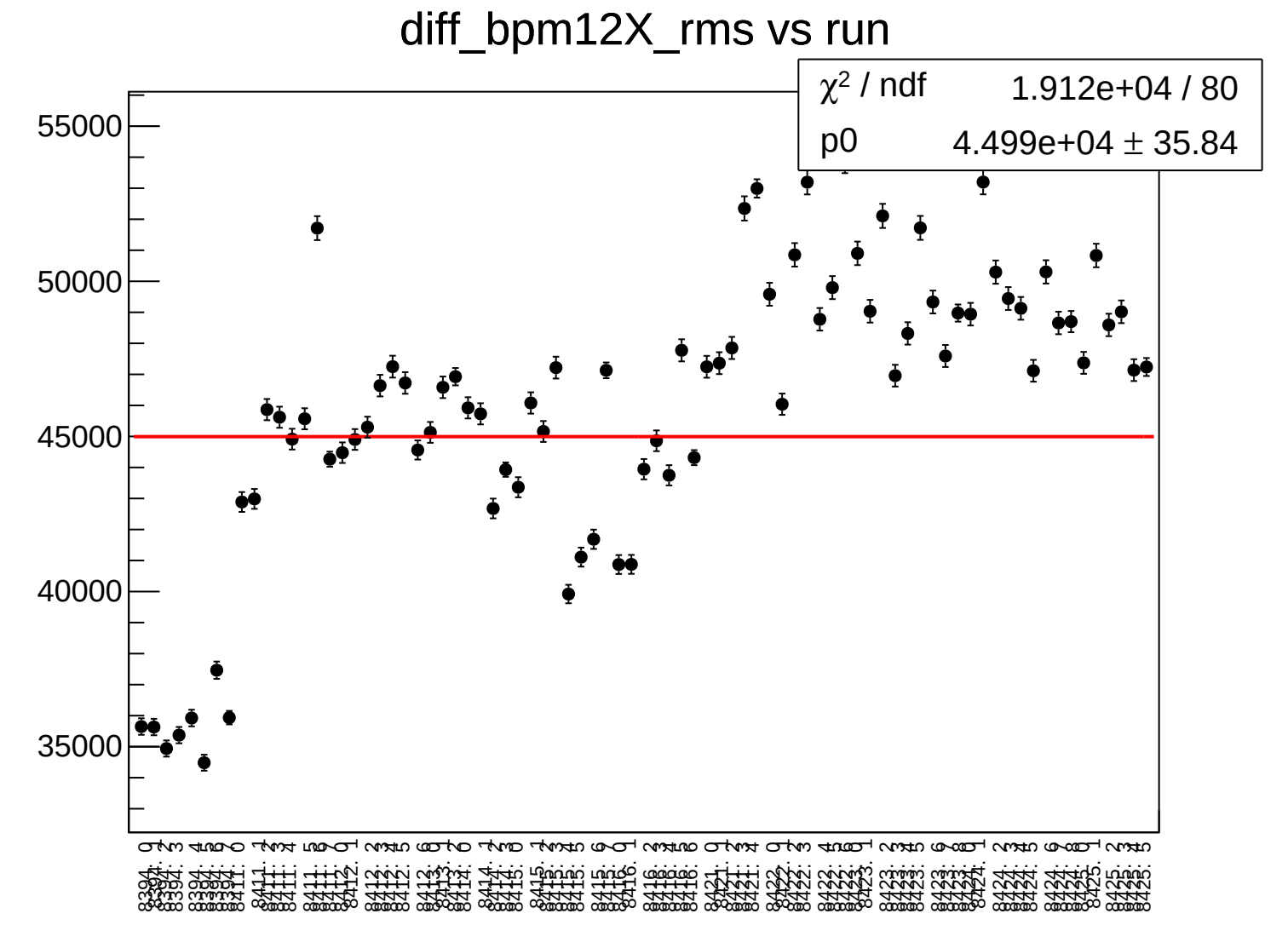

diff_bpm11Y_mean vs run
χ² / ndf 85.17 / 80
p0 28.13 ± 5.23
pull
Entries 81
Mean 1756
Std Dev 1692

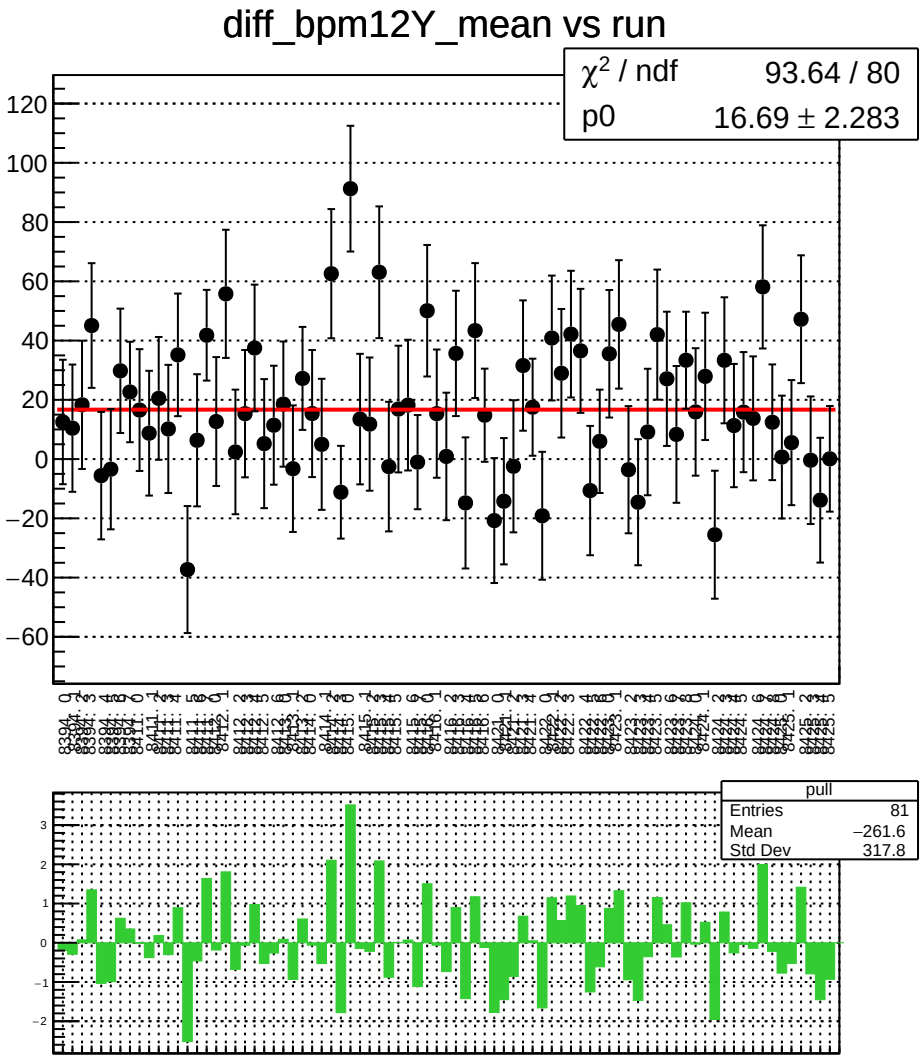

pull1D
Entries 81
Mean −0.0004256
Std Dev 1.025

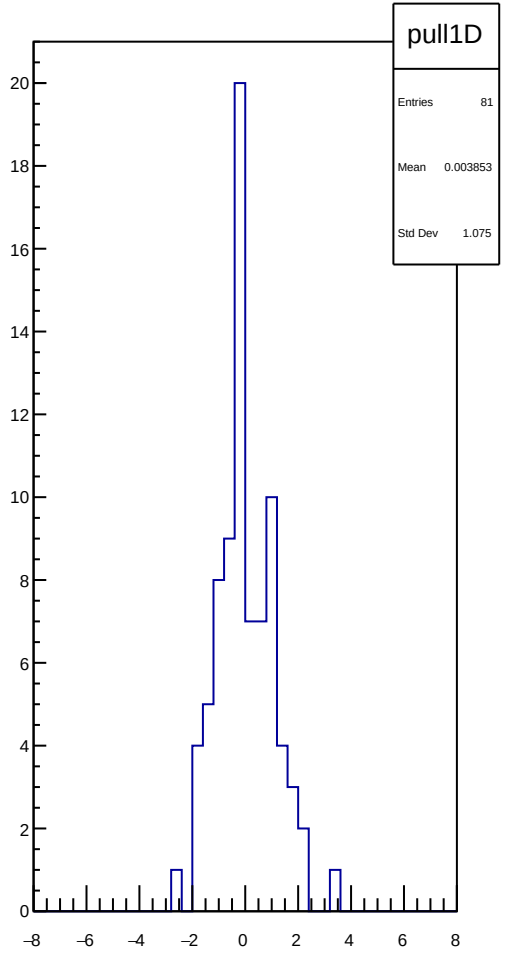

diff_bpm11Y_rms vs run
χ^2 / ndf 5303 / 80
p0 4662 ± 3.698
5200
5000
4800
4600
4400
4200
4000

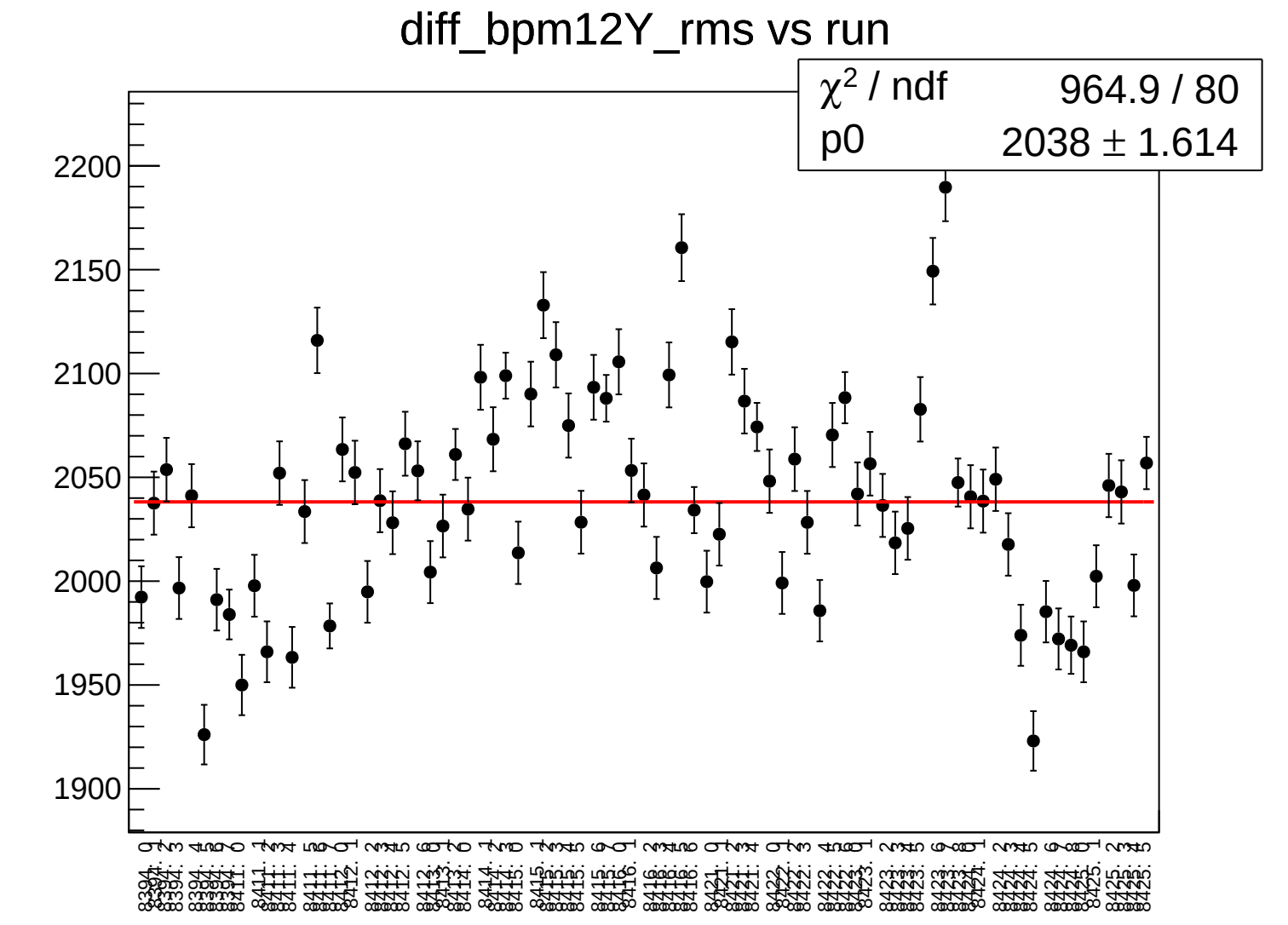

diff_bpm12X_mean vs run
χ² / ndf 71.41 / 80
p0 79.22 ± 50.69
pull
Entries 81
Mean −131.5
Std Dev 173.2

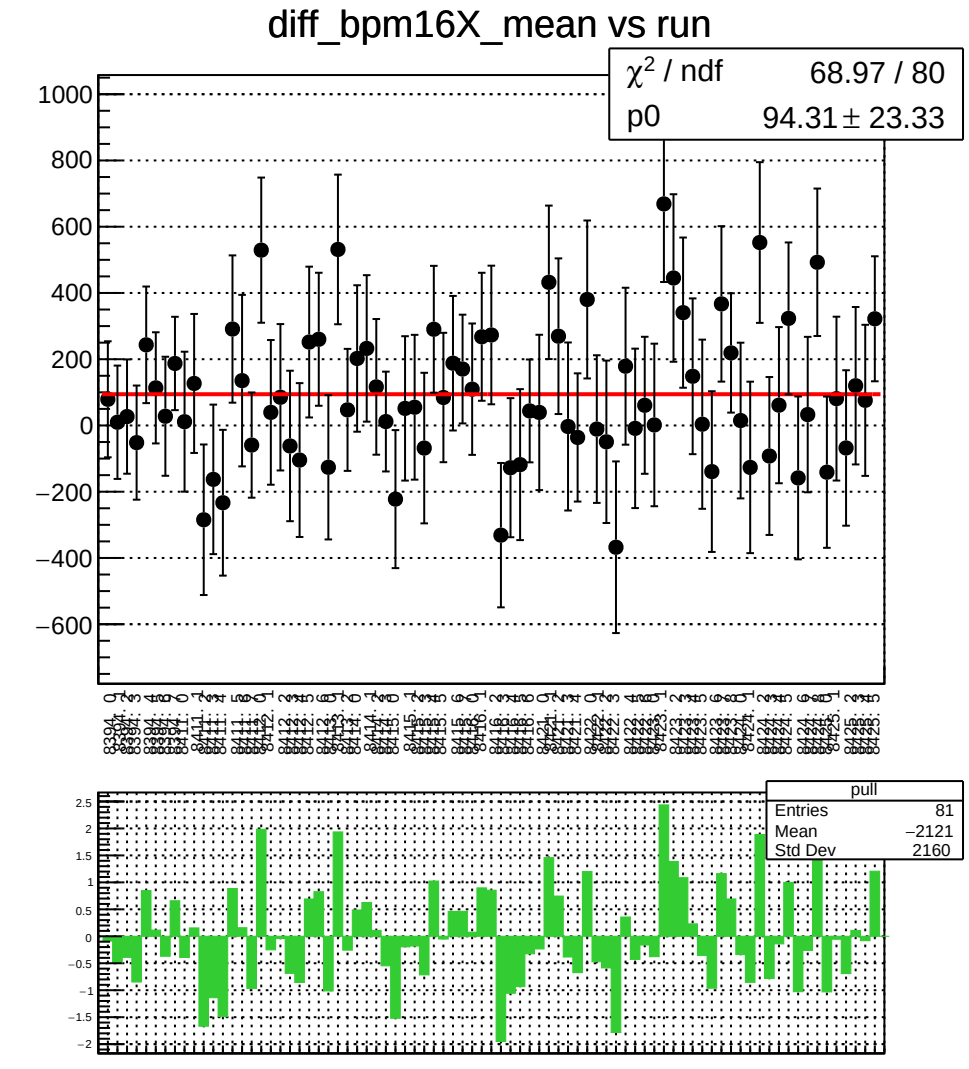

pull1D
Entries 81
Mean −0.008027
Std Dev 0.9389

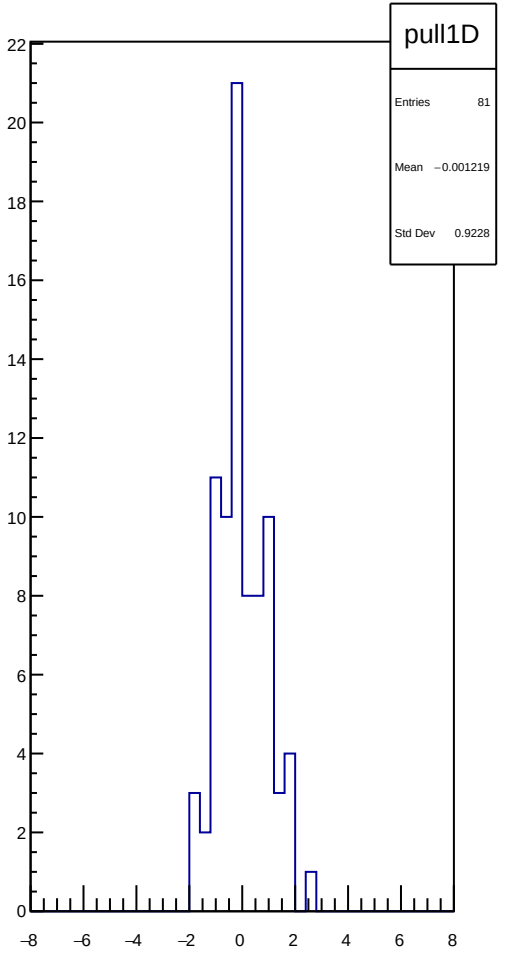

diff_bpm12X_rms vs run
χ² / ndf 1.912e+04 / 80
p0 4.499e+04 ± 35.84
55000
50000
45000
40000
35000

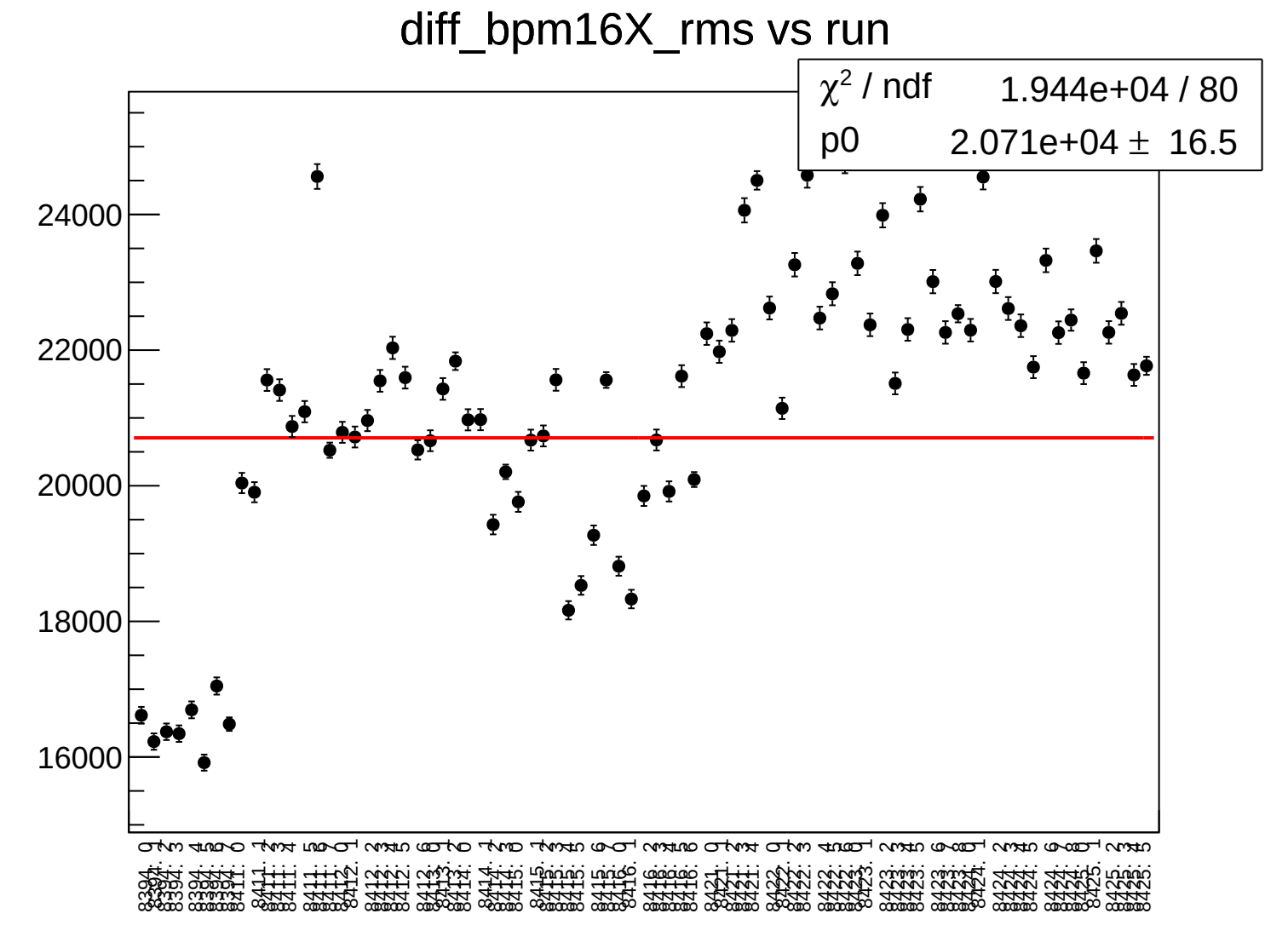

diff_bpm12Y_mean vs run
χ^2 / ndf 93.64 / 80
p0 16.69 ± 2.283
pull
Entries 81
Mean −261.6
Std Dev 317.8

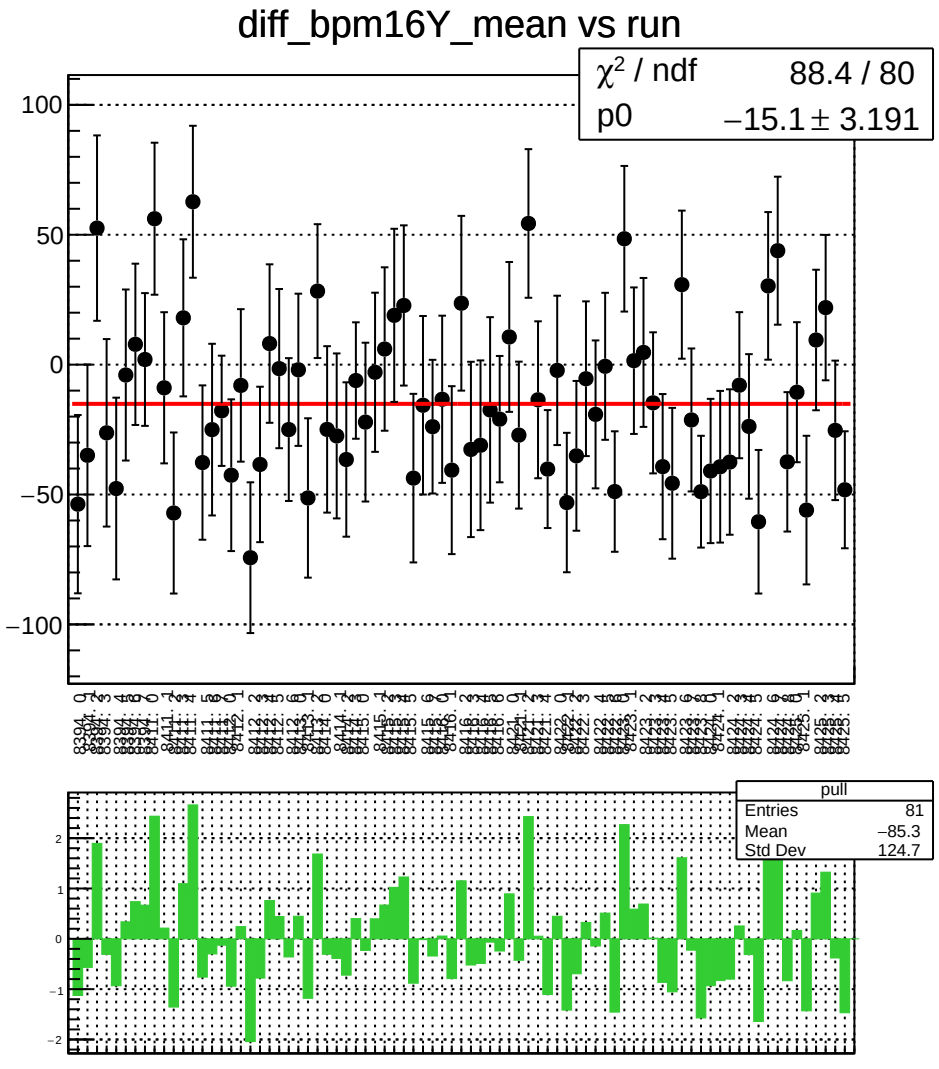

pull1D
Entries 81
Mean 0.003853
Std Dev 1.075

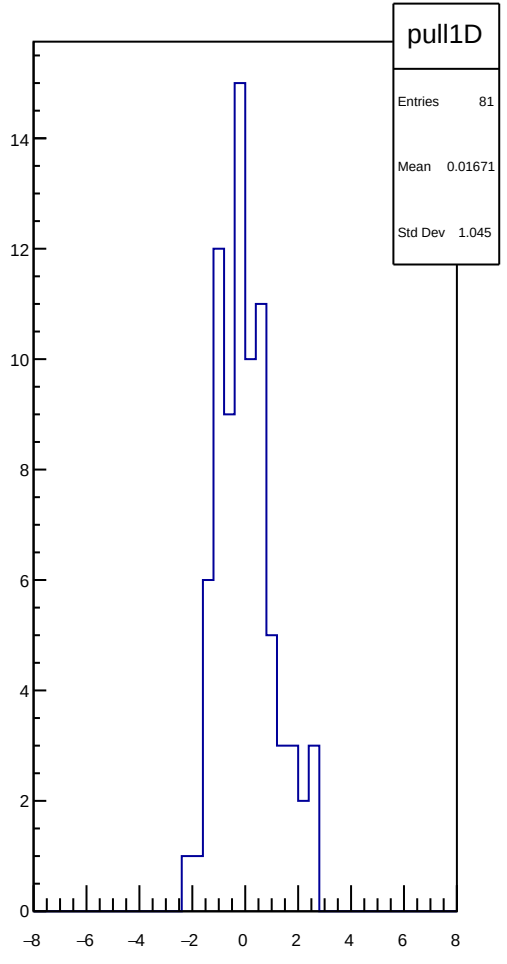

diff_bpm12Y_rms vs run
χ² / ndf 964.9 / 80
p0 2038 ± 1.614
2200
2150
2100
2050
2000
1950
1900

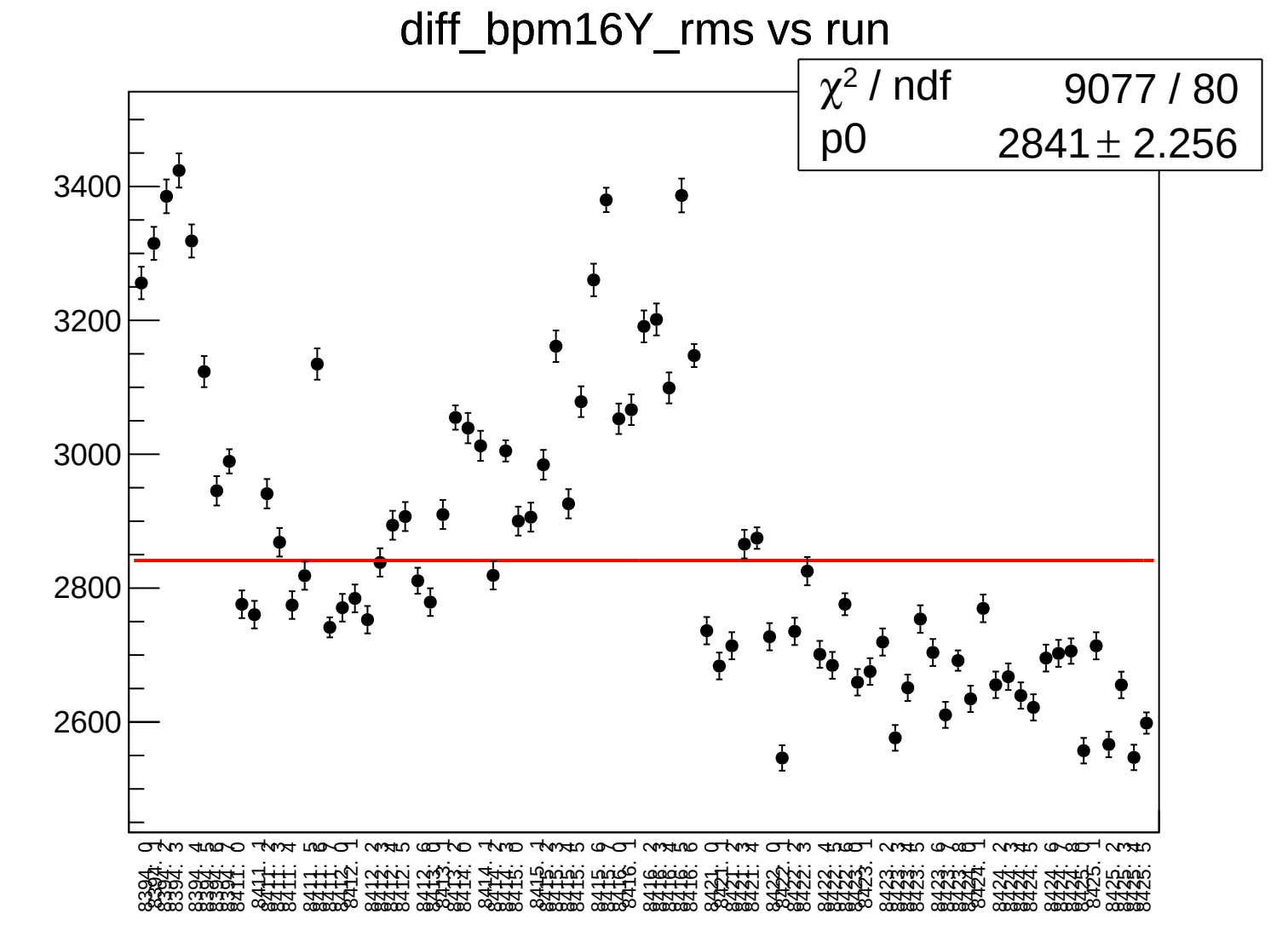

diff_bpm16X_mean vs run
χ² / ndf 68.97 / 80
p0 94.31 ± 23.33
pull
Entries 81
Mean −2121
Std Dev 2160

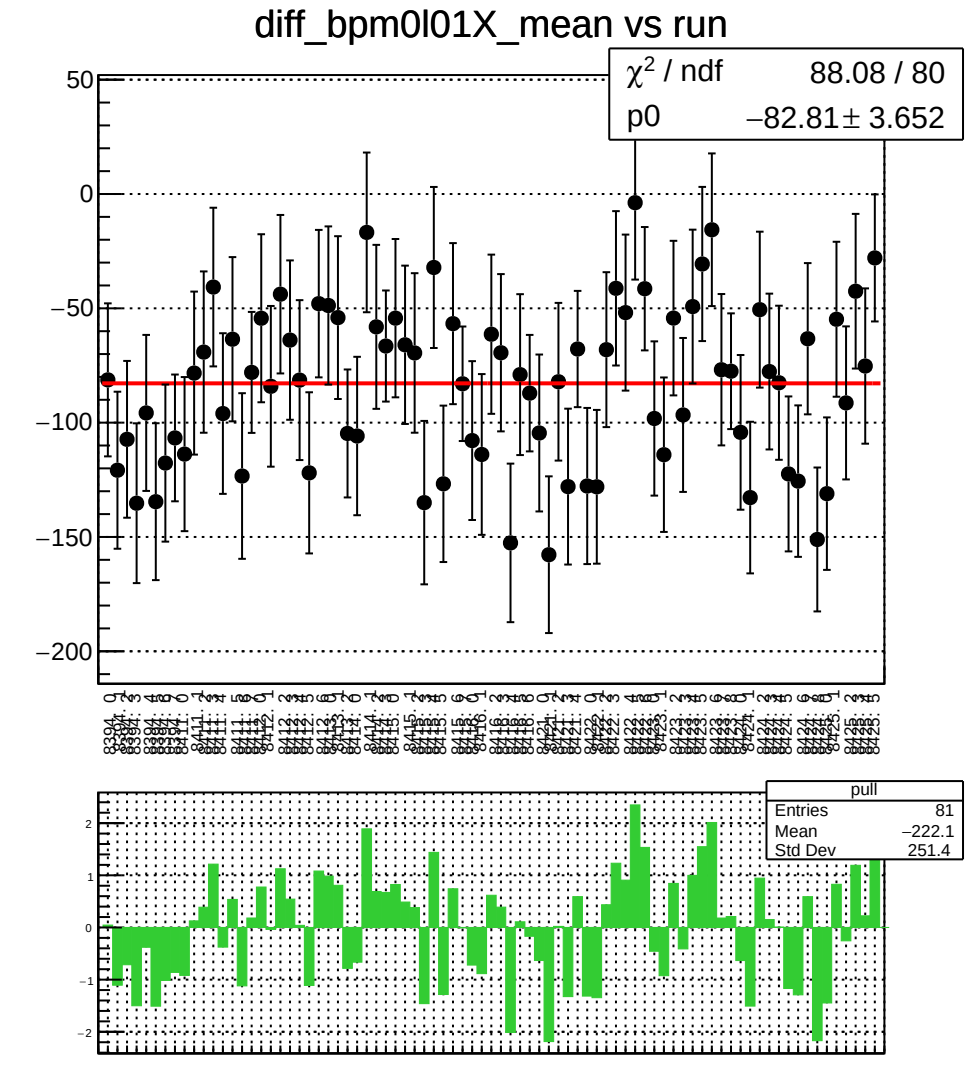

pull1D
Entries 81
Mean −0.001219
Std Dev 0.9228

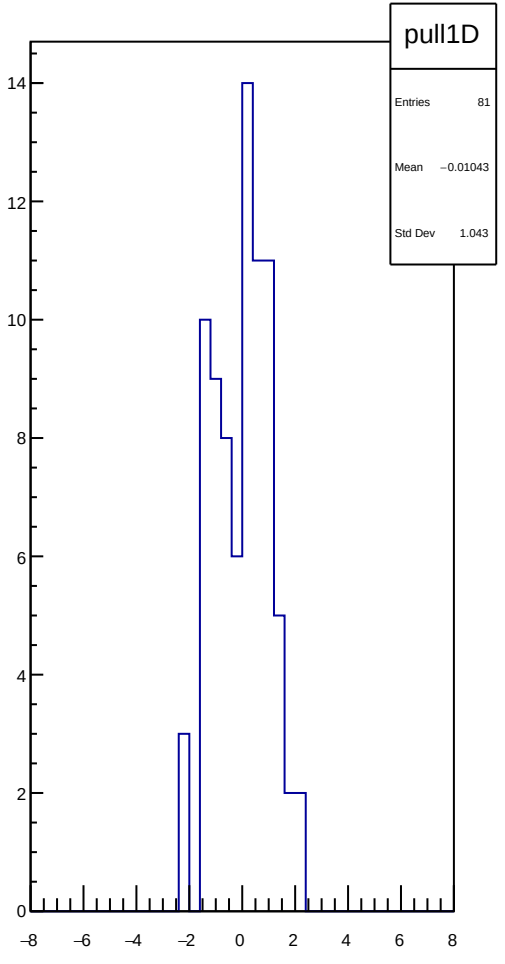

diff_bpm16X_rms vs run
χ^2 / ndf 1.944e+04 / 80
p0 2.071e+04 ± 16.5
24000
22000
20000
18000
16000

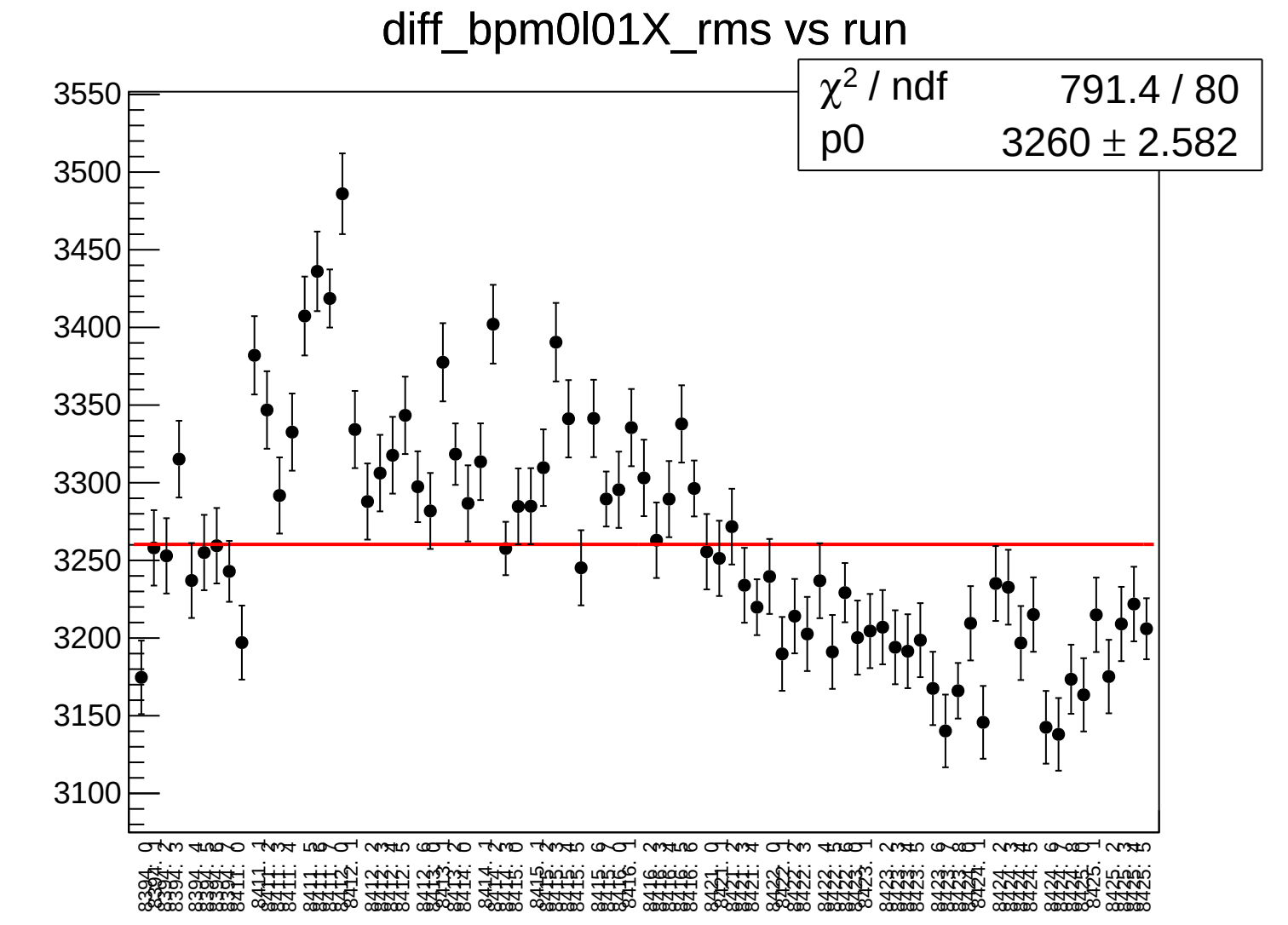

diff_bpm16Y_mean vs run
χ² / ndf 88.4 / 80
p0 −15.1 ± 3.191
100
50
0
−50
−100
pull
Entries 81
Mean −85.3
Std Dev 124.7
2
1
0
−1
−2

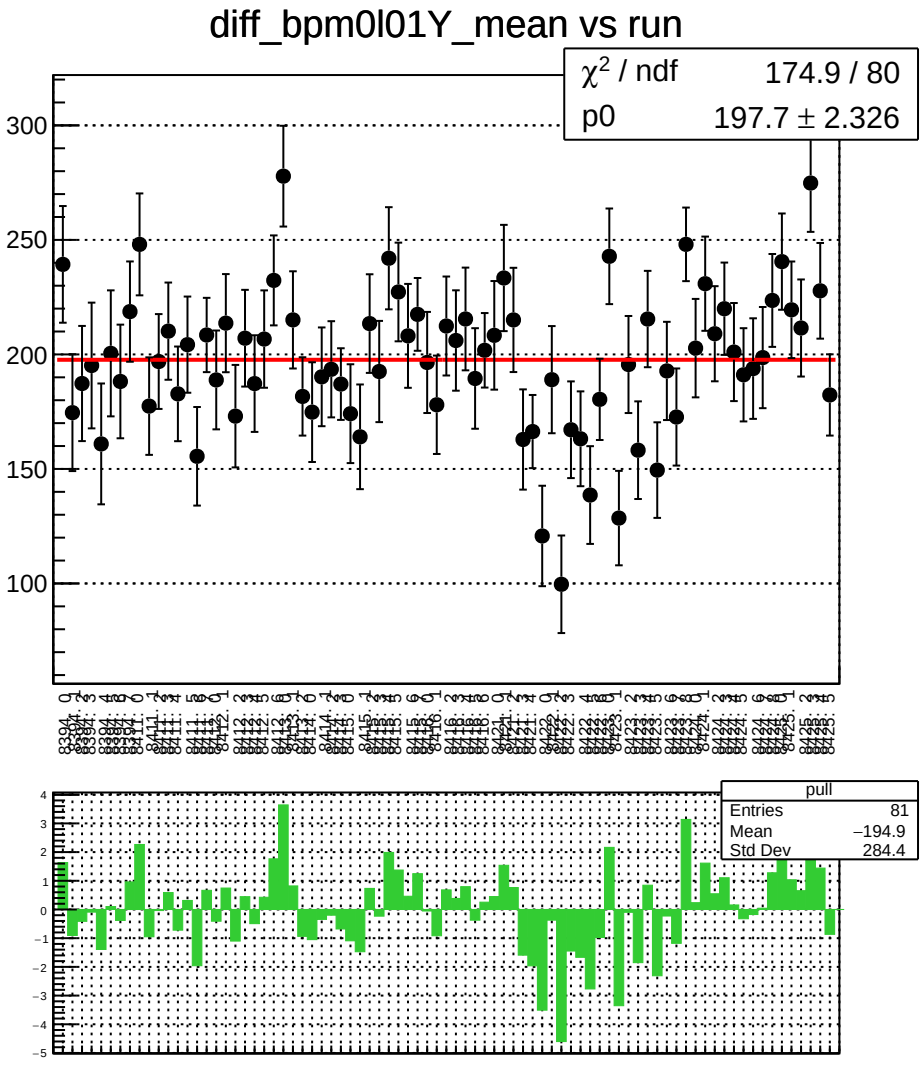

pull1D
Entries 81
Mean 0.01671
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

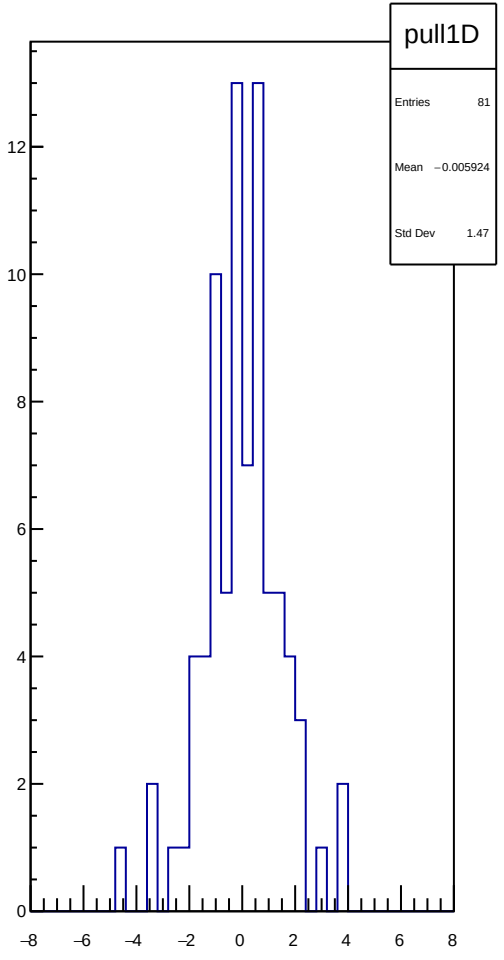

diff_bpm16Y_rms vs run
χ² / ndf 9077 / 80
p0 2841 ± 2.256
3400
3200
3000
2800
2600

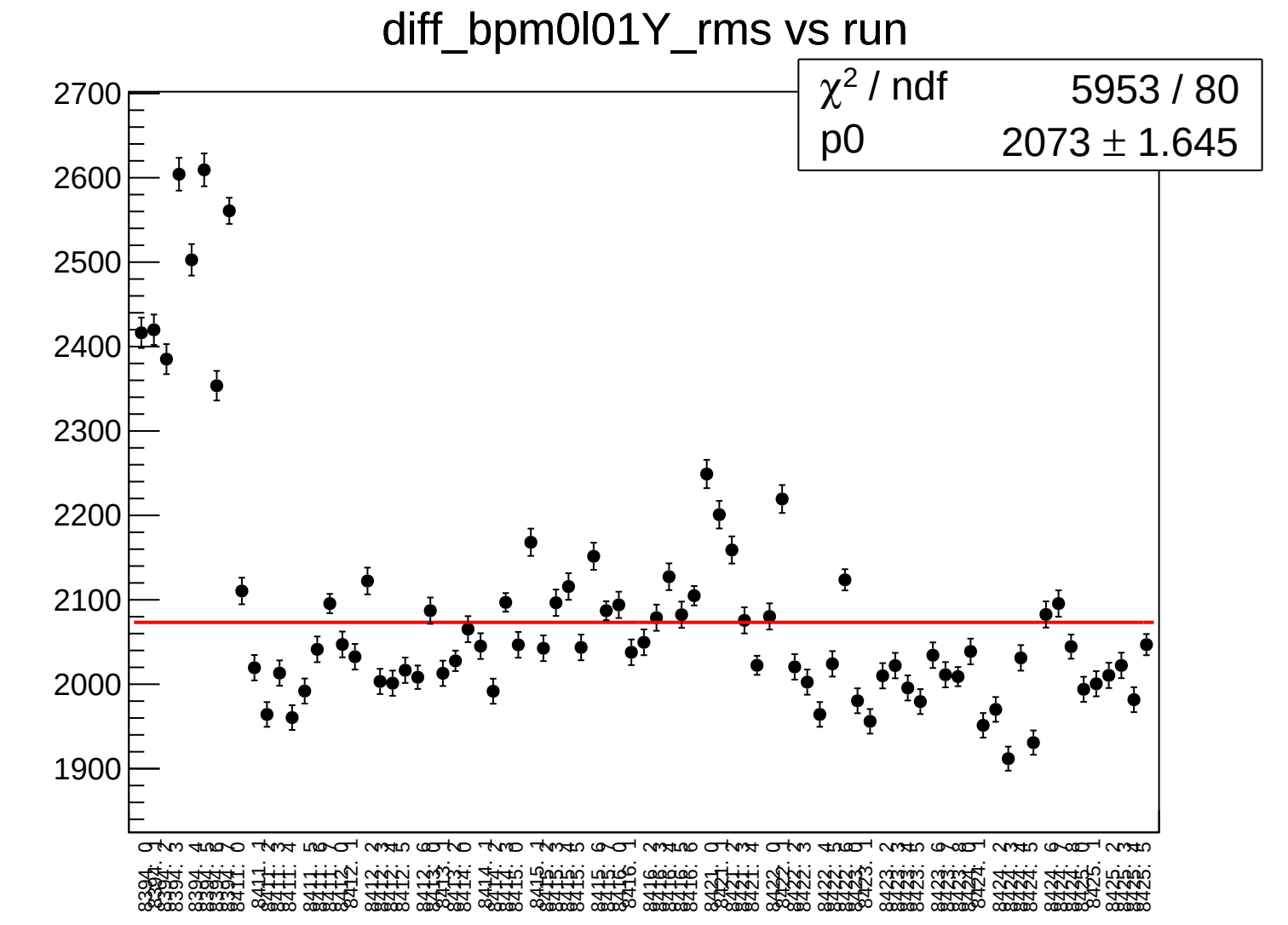

diff_bpm0l01X_mean vs run
χ² / ndf 88.08 / 80
p0 −82.81 ± 3.652
pull
Entries 81
Mean −222.1
Std Dev 251.4

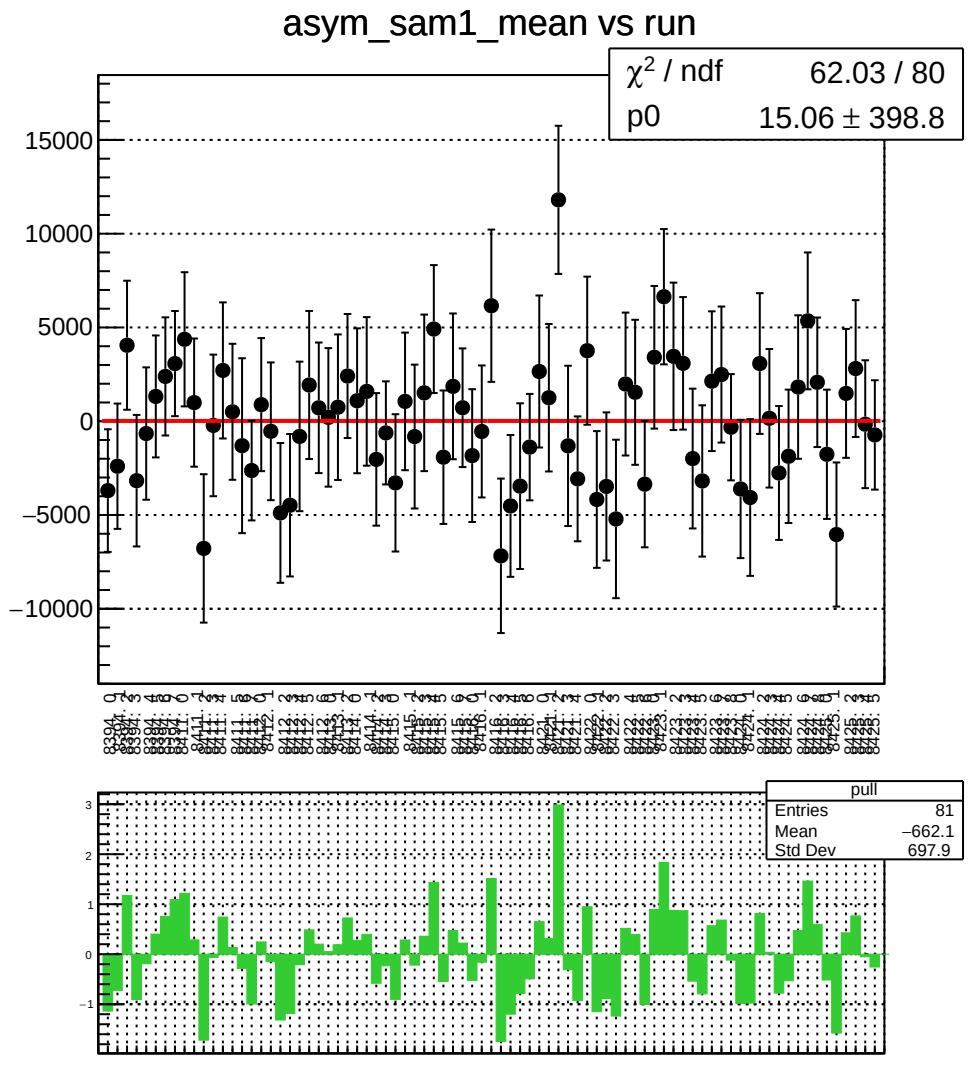

pull1D
Entries 81
Mean −0.01043
Std Dev 1.043

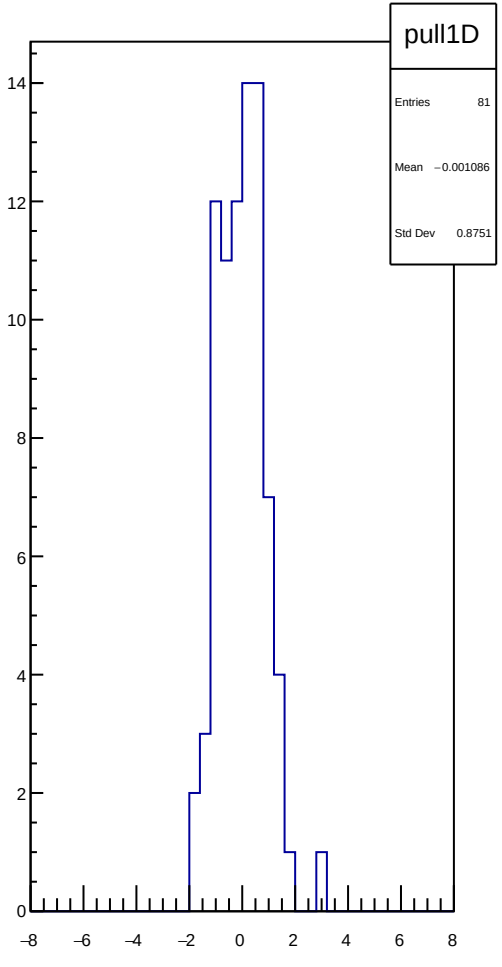

diff_bpm0l01X_rms vs run
χ^2 / ndf 791.4 / 80
p0 3260 ± 2.582
3550
3500
3450
3400
3350
3300
3250
3200
3150
3100

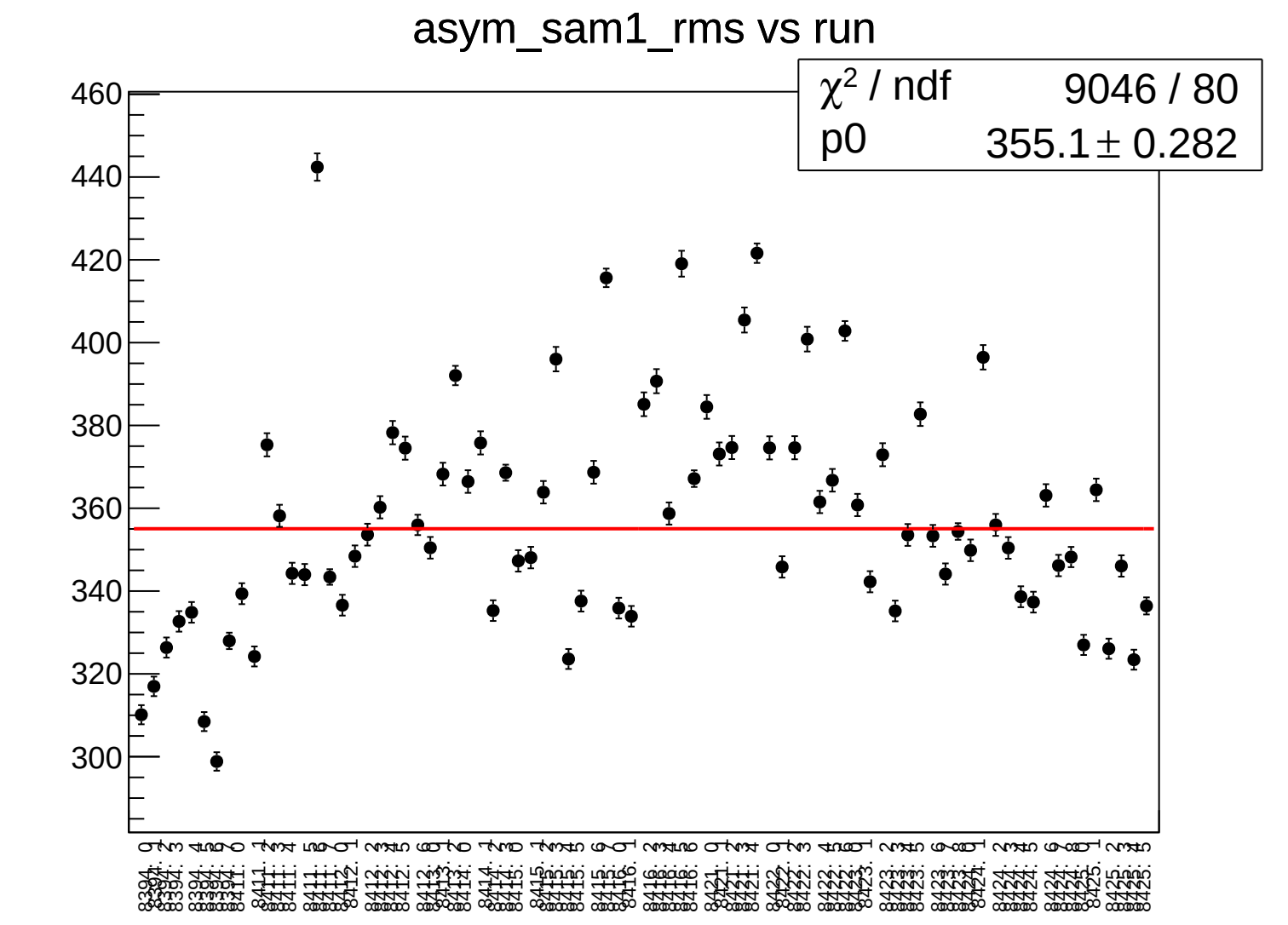

diff_bpm0l01Y_mean vs run
χ² / ndf 174.9 / 80
p0 197.7 ± 2.326
300
250
200
150
100
pull
Entries 81
Mean −194.9
Std Dev 284.4
4
3
2
1
0
−1
−2
−3
−4
−5

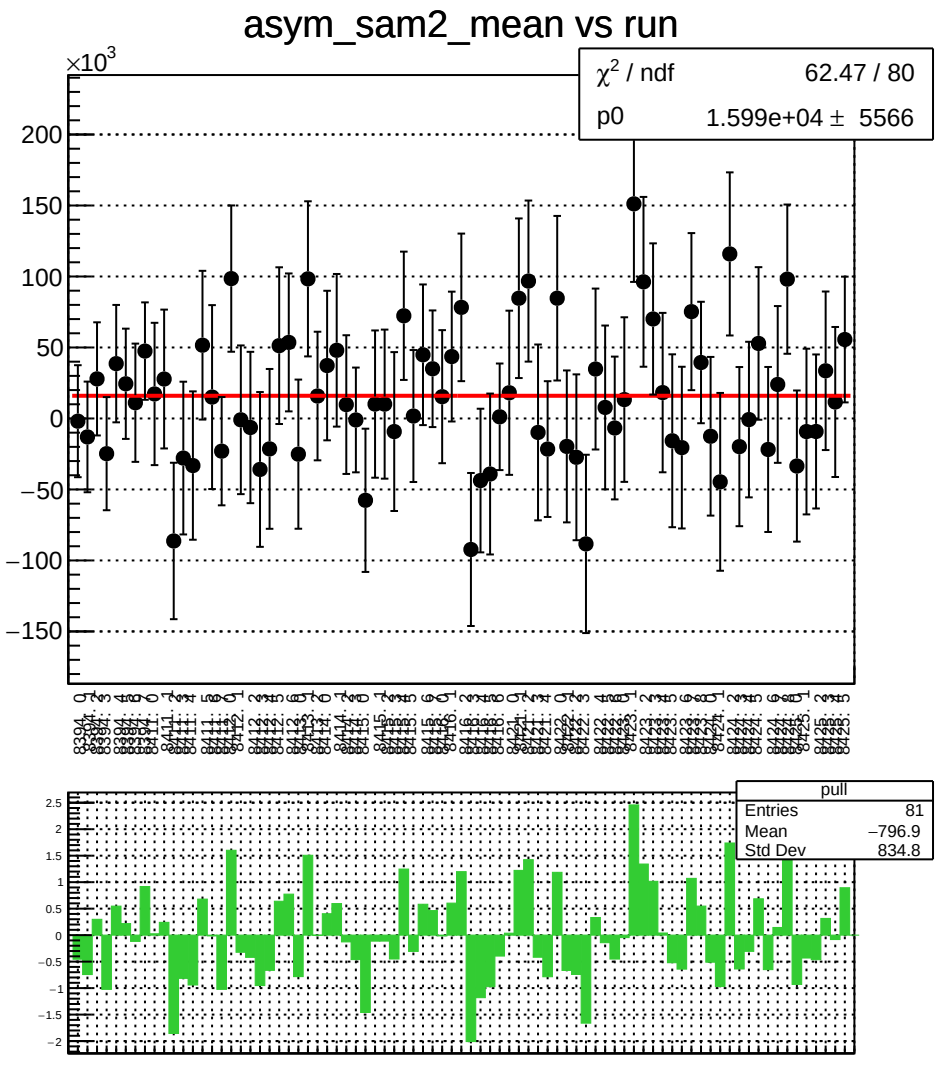

pull1D
Entries 81
Mean −0.005924
Std Dev 1.47
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

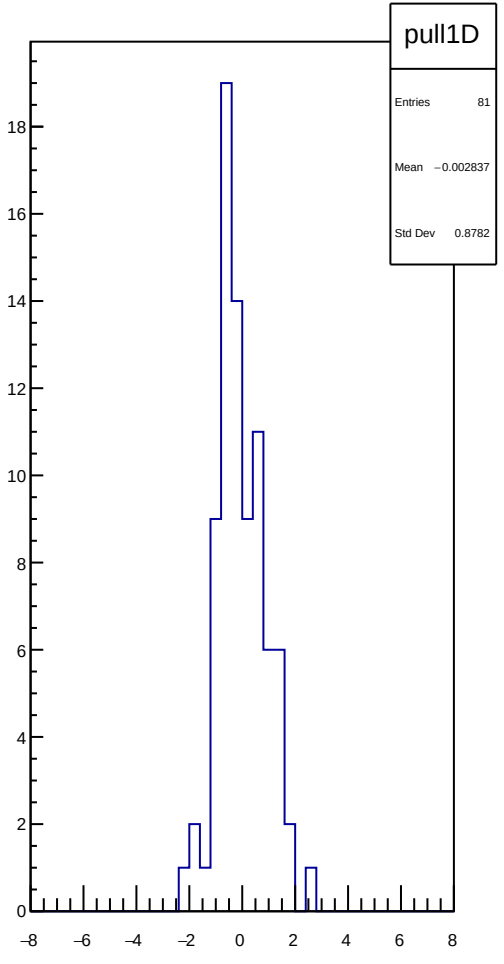

diff_bpm0l01Y_rms vs run
χ² / ndf 5953 / 80
p0 2073 ± 1.645
2700
2600
2500
2400
2300
2200
2100
2000
1900

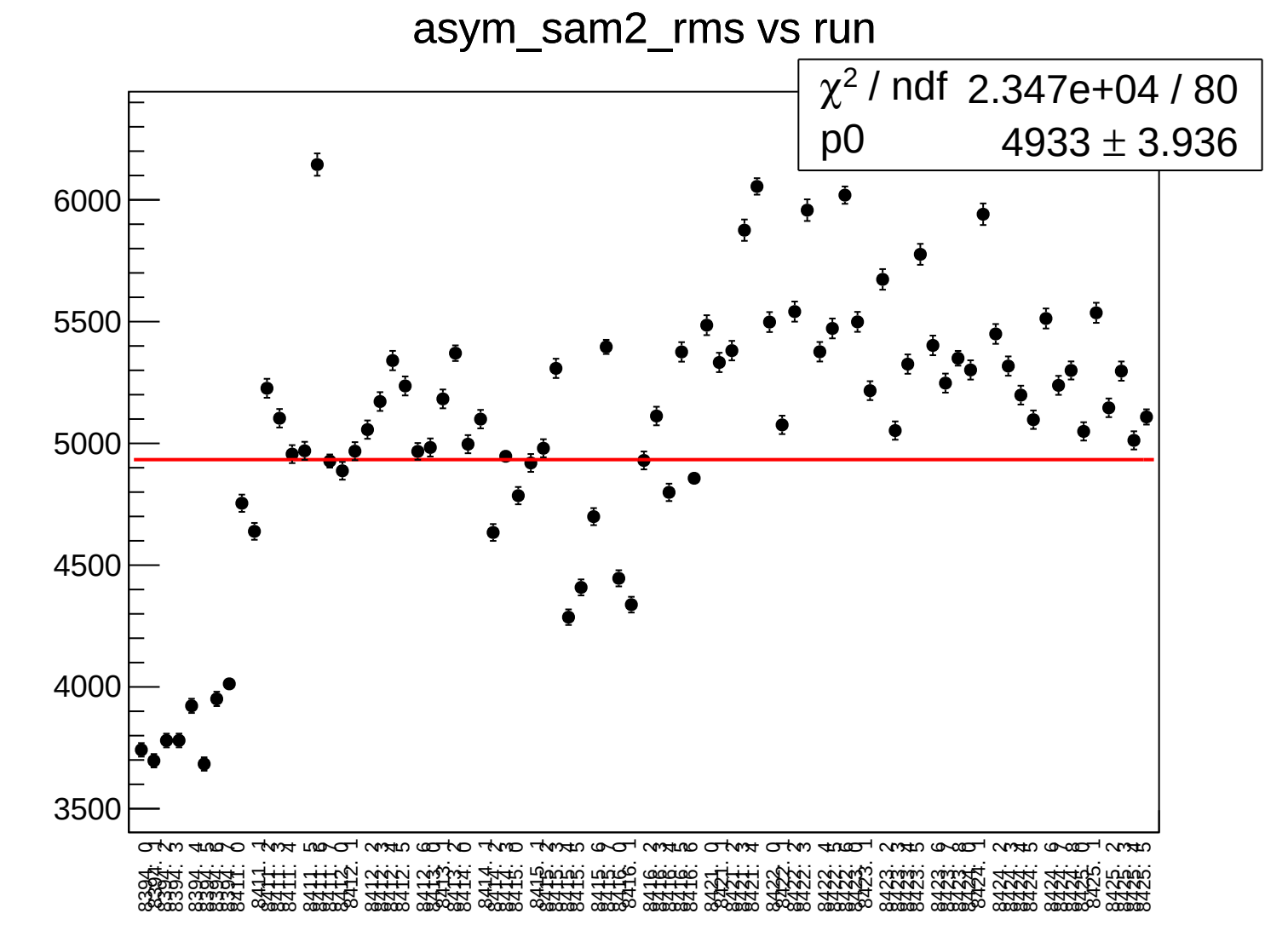

asym_sam1_mean vs run
χ² / ndf 62.03 / 80
p0 15.06 ± 398.8
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −662.1
Std Dev 697.9
3
2
1
0
−1

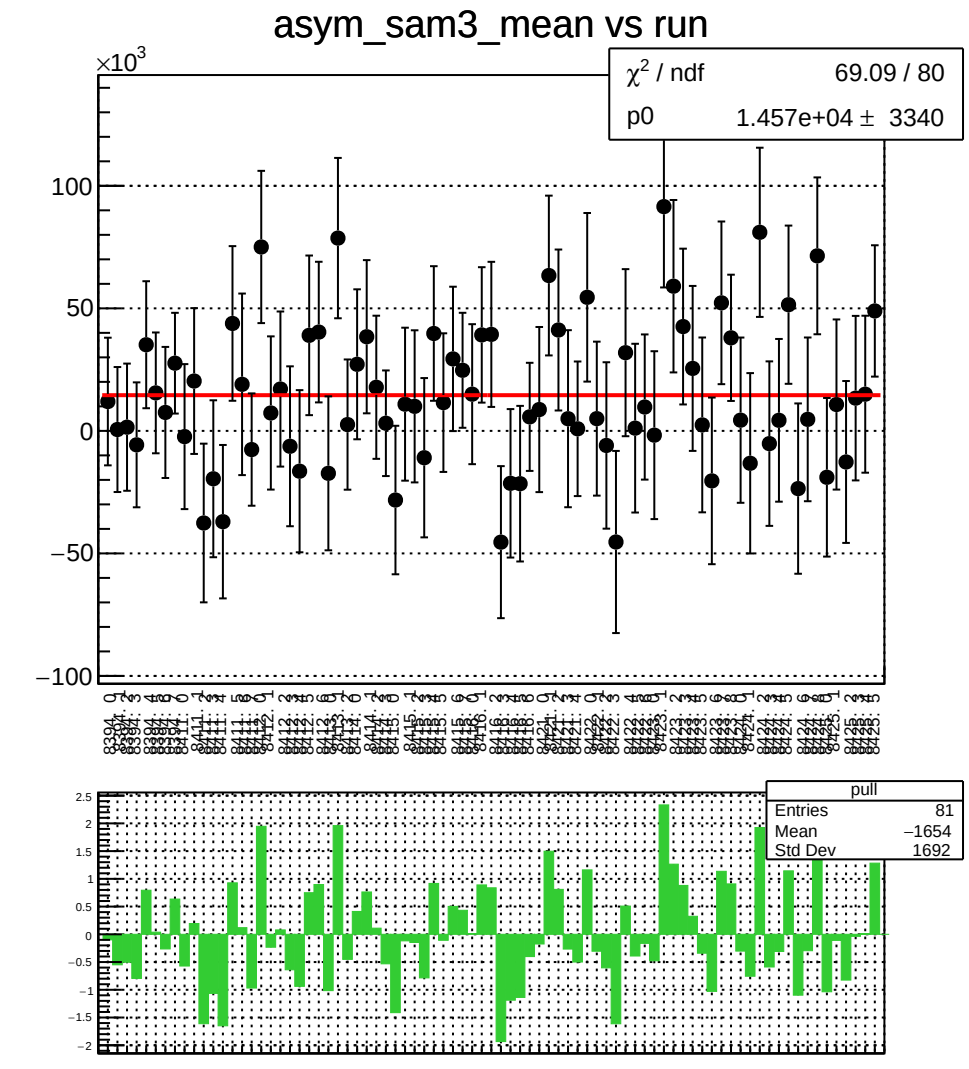

pull1D
Entries 81
Mean −0.001086
Std Dev 0.8751
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

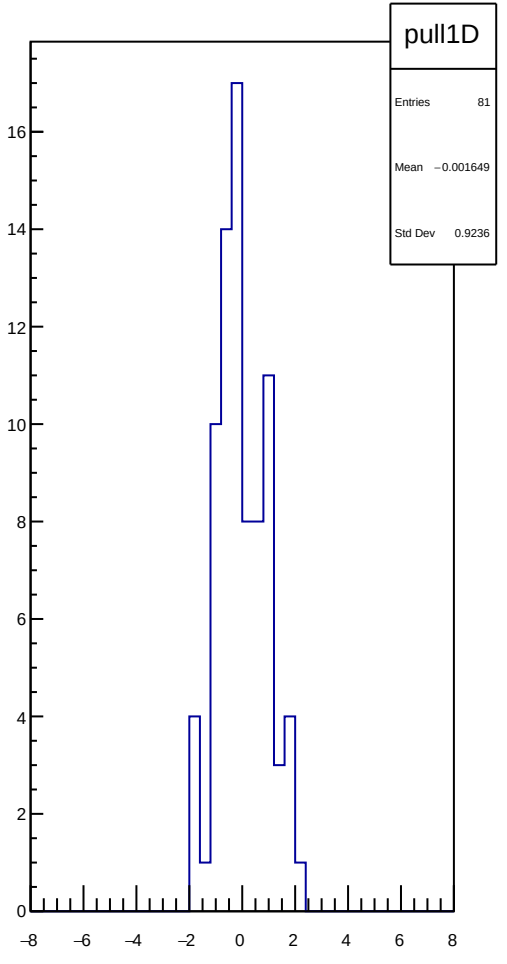

asym_sam1_rms vs run
χ² / ndf 9046 / 80
p0 355.1 ± 0.282
460
440
420
400
380
360
340
320
300

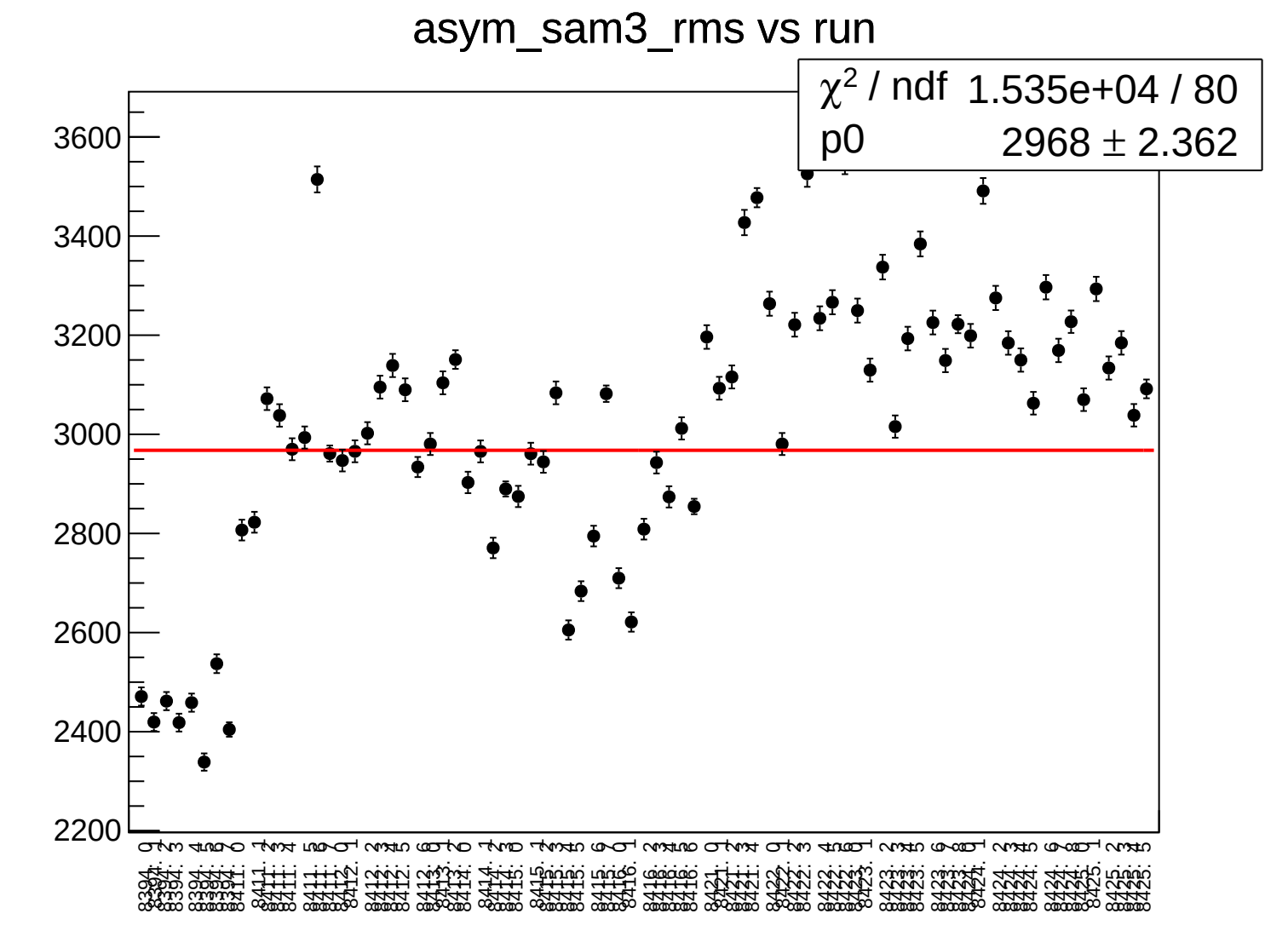

asym_sam2_mean vs run
×10^3
χ² / ndf 62.47 / 80
p0 1.599e+04 ± 5566
pull
Entries 81
Mean −796.9
Std Dev 834.8

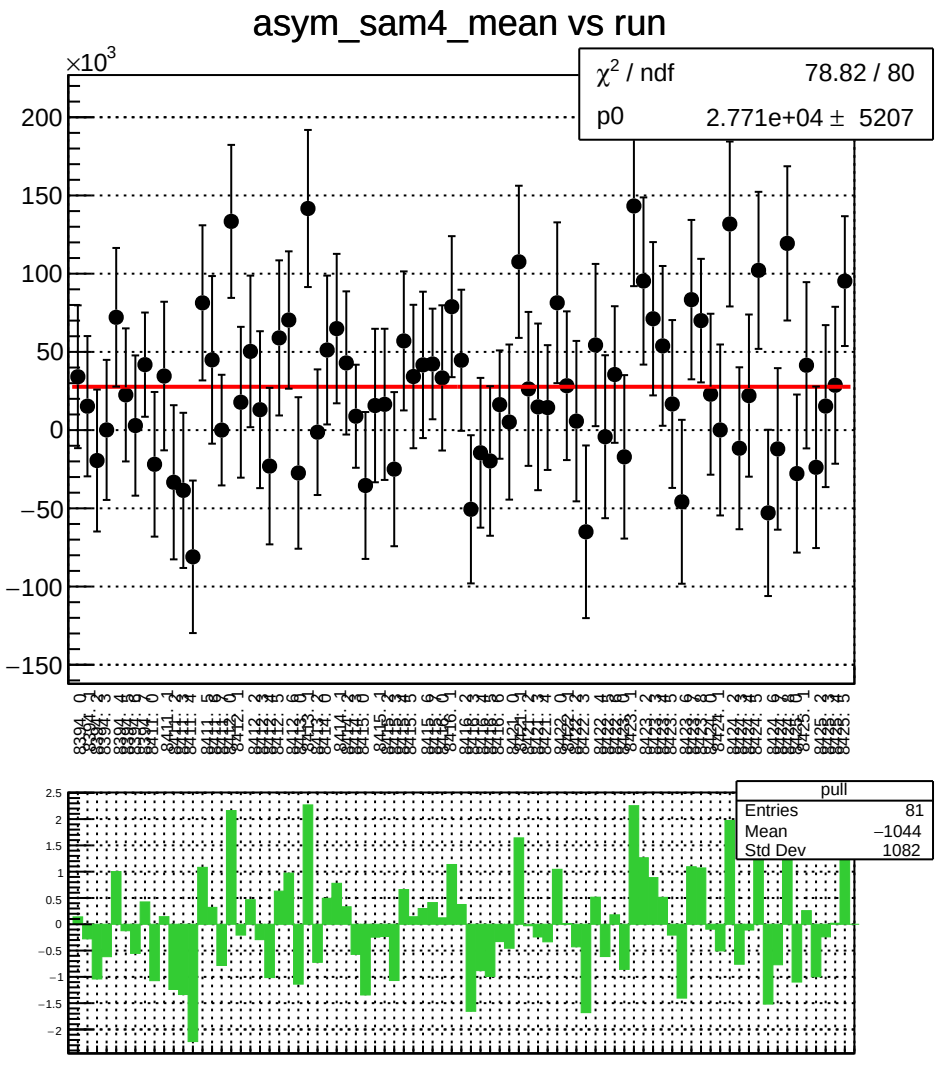

pull1D
Entries 81
Mean −0.002837
Std Dev 0.8782

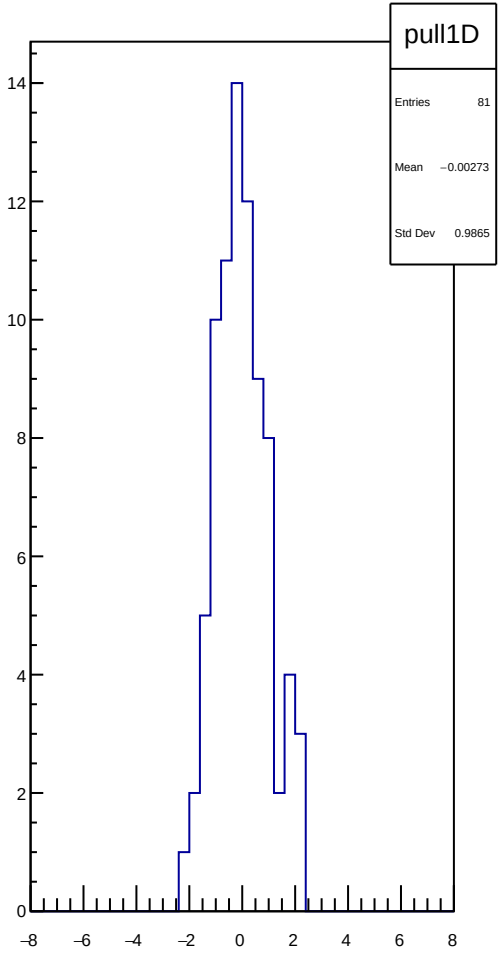

asym_sam2_rms vs run
χ² / ndf 2.347e+04 / 80
p0 4933 ± 3.936
6000
5500
5000
4500
4000
3500

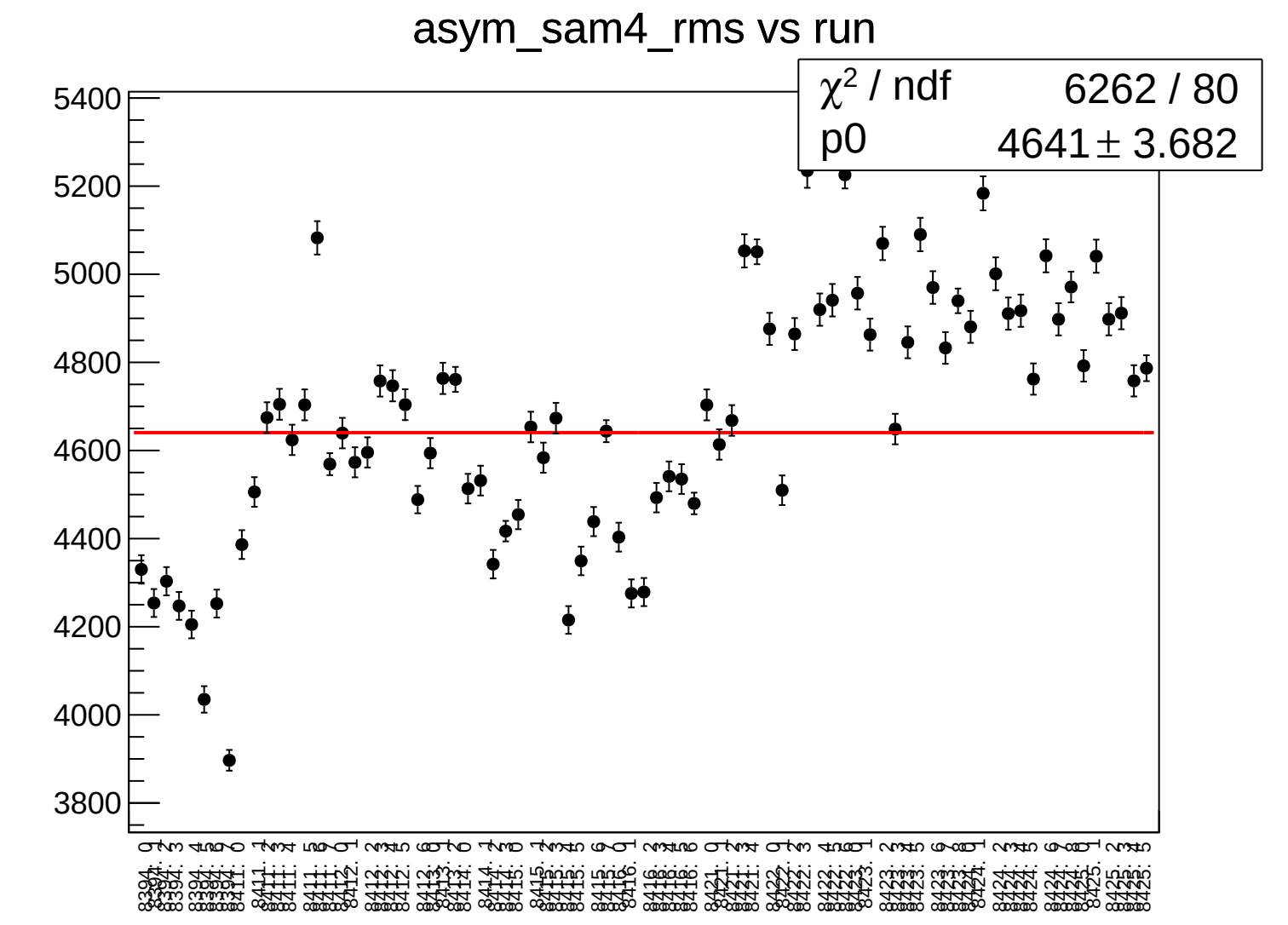

asym_sam3_mean vs run
×10^3
χ² / ndf 69.09 / 80
p0 1.457e+04 ± 3340
100
50
0
−50
−100
pull
Entries 81
Mean −1654
Std Dev 1692
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

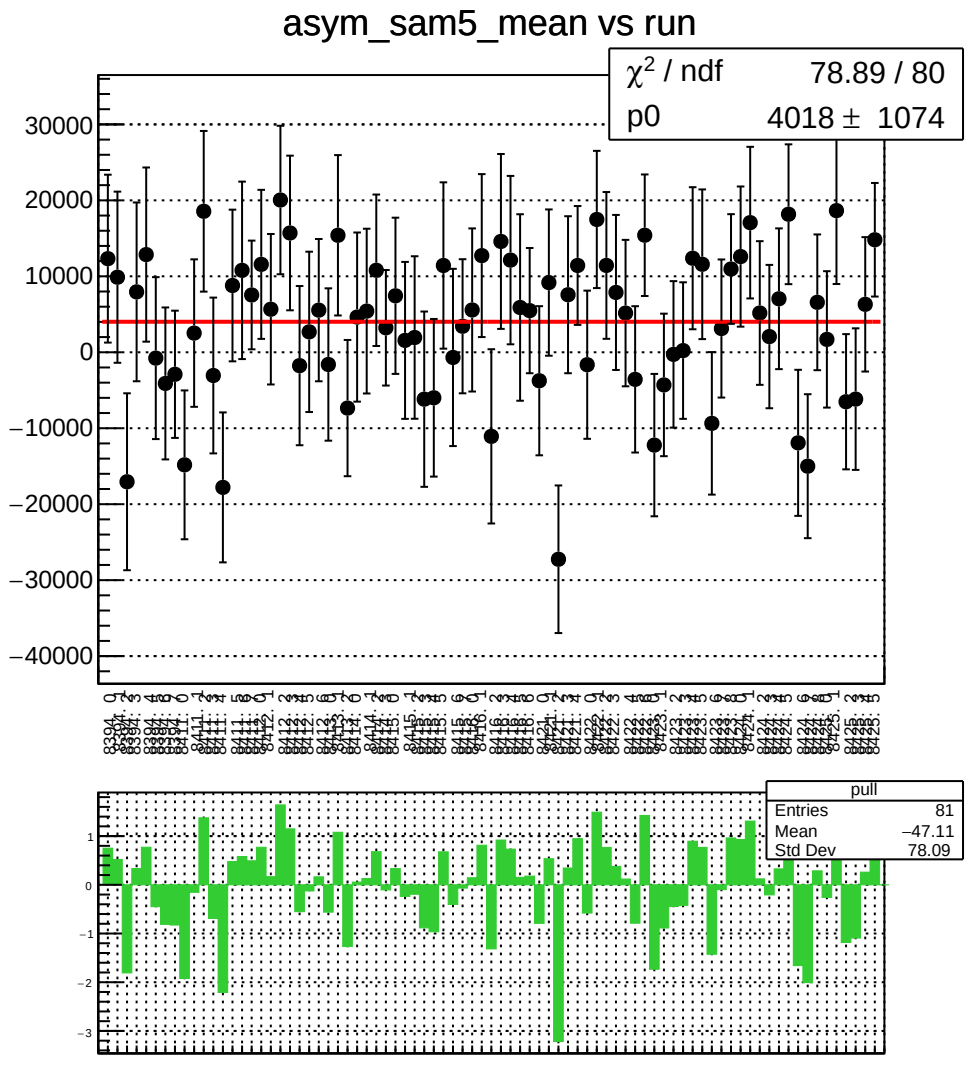

pull1D
Entries 81
Mean −0.001649
Std Dev 0.9236
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

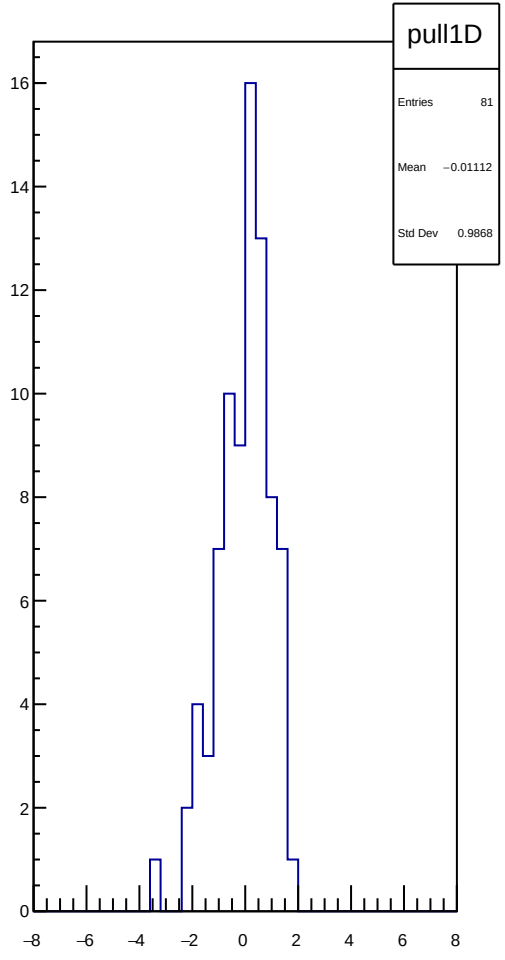

asym_sam3_rms vs run
χ² / ndf 1.535e+04 / 80
p0 2968 ± 2.362
3600
3400
3200
3000
2800
2600
2400
2200

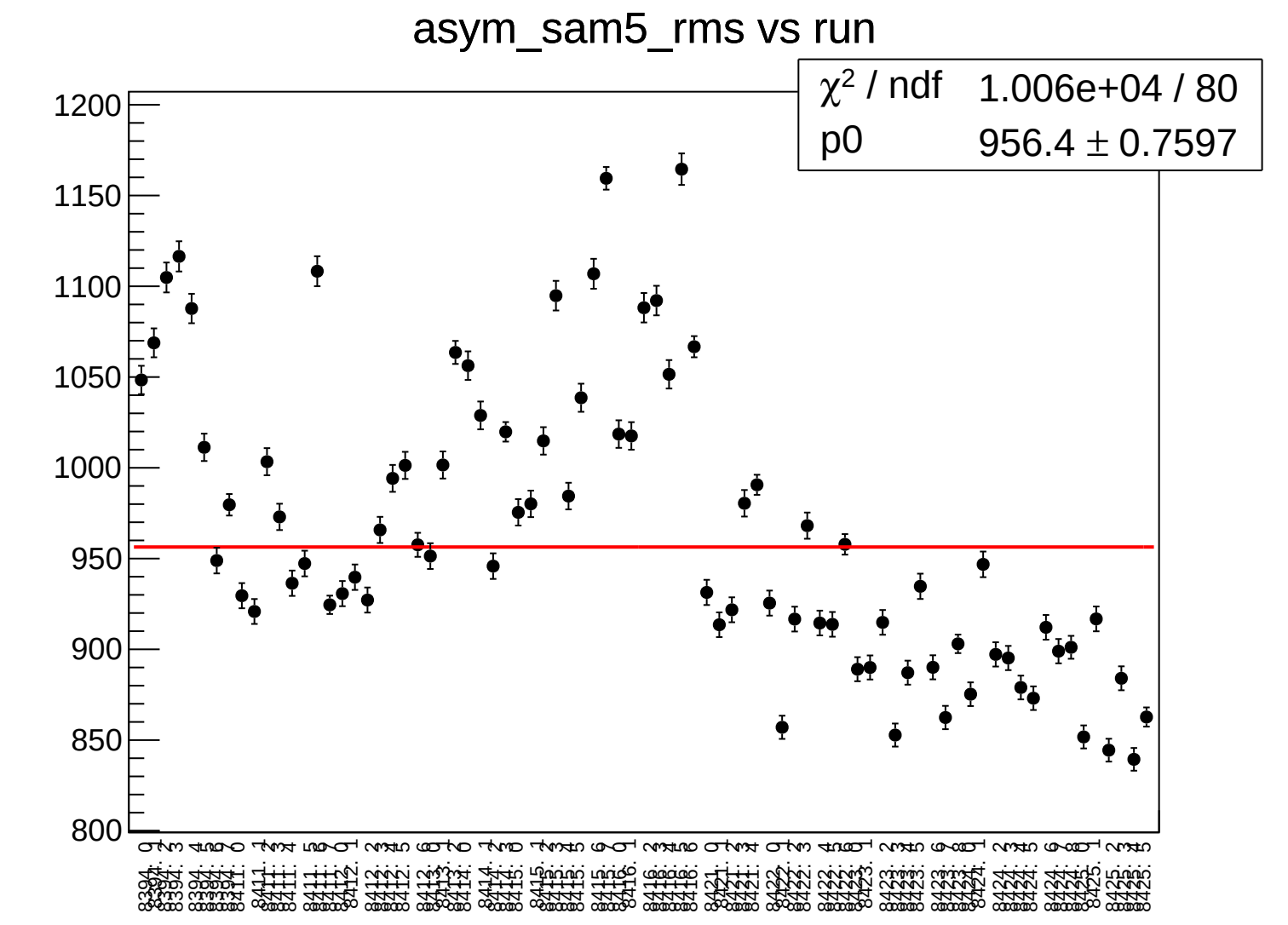

asym_sam4_mean vs run
×10^3
χ² / ndf 78.82 / 80
p0 2.771e+04 ± 5207
pull
Entries 81
Mean −1044
Std Dev 1082

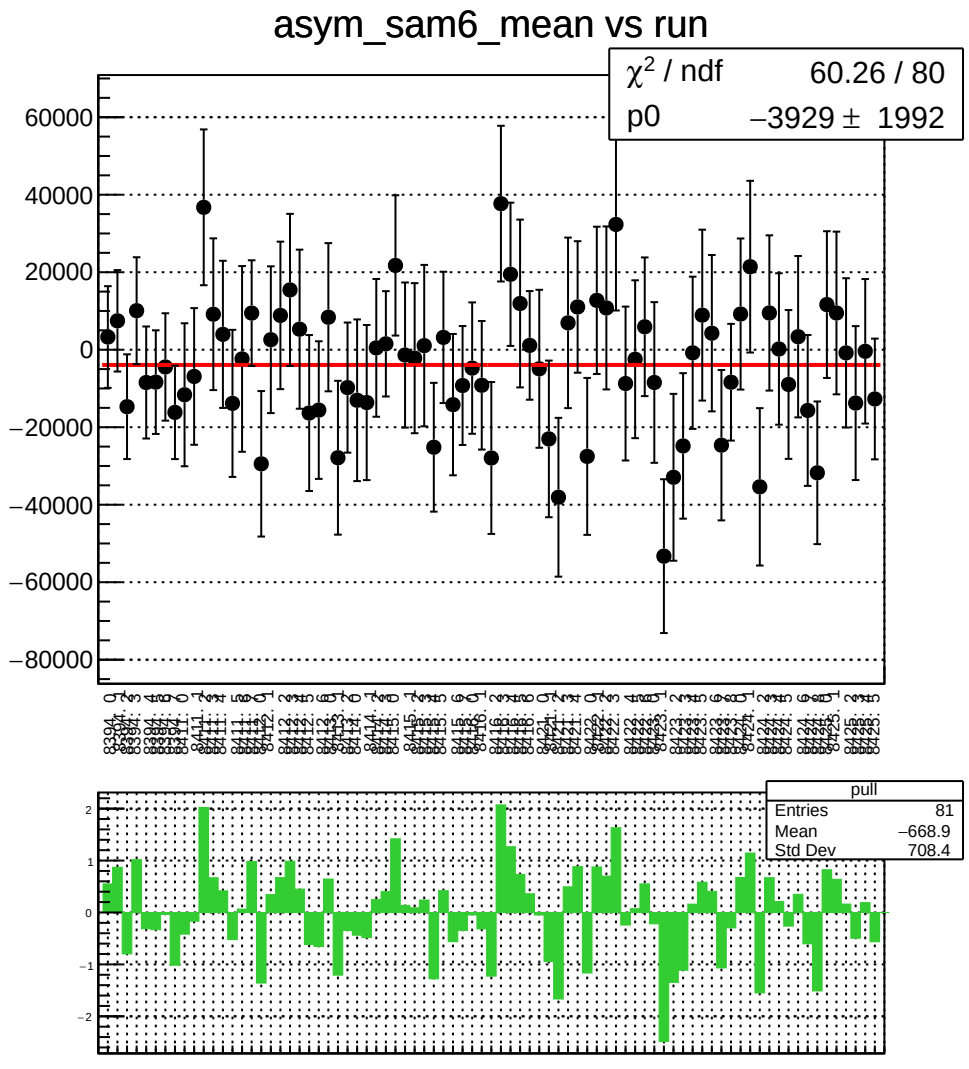

pull1D
Entries 81
Mean −0.00273
Std Dev 0.9865

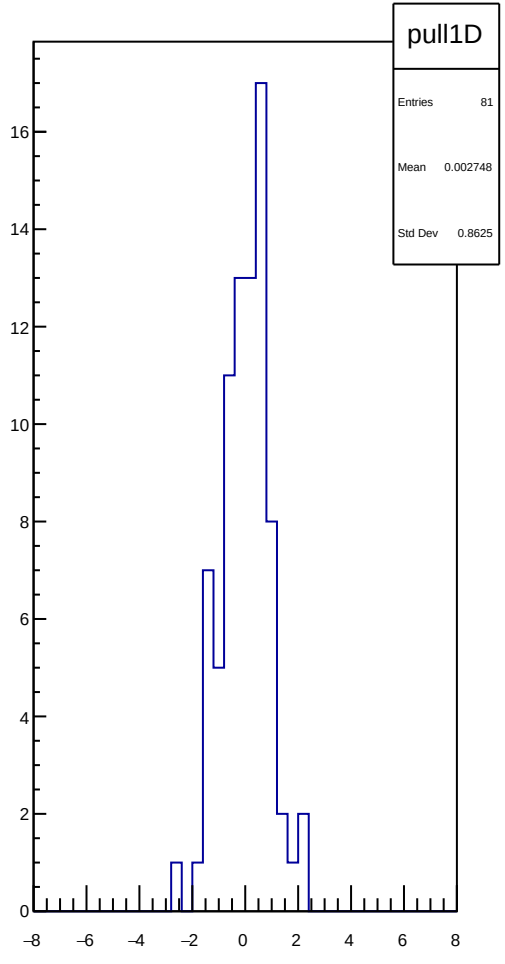

asym_sam4_rms vs run
χ² / ndf 6262 / 80
p0 4641 ± 3.682
5400
5200
5000
4800
4600
4400
4200
4000
3800

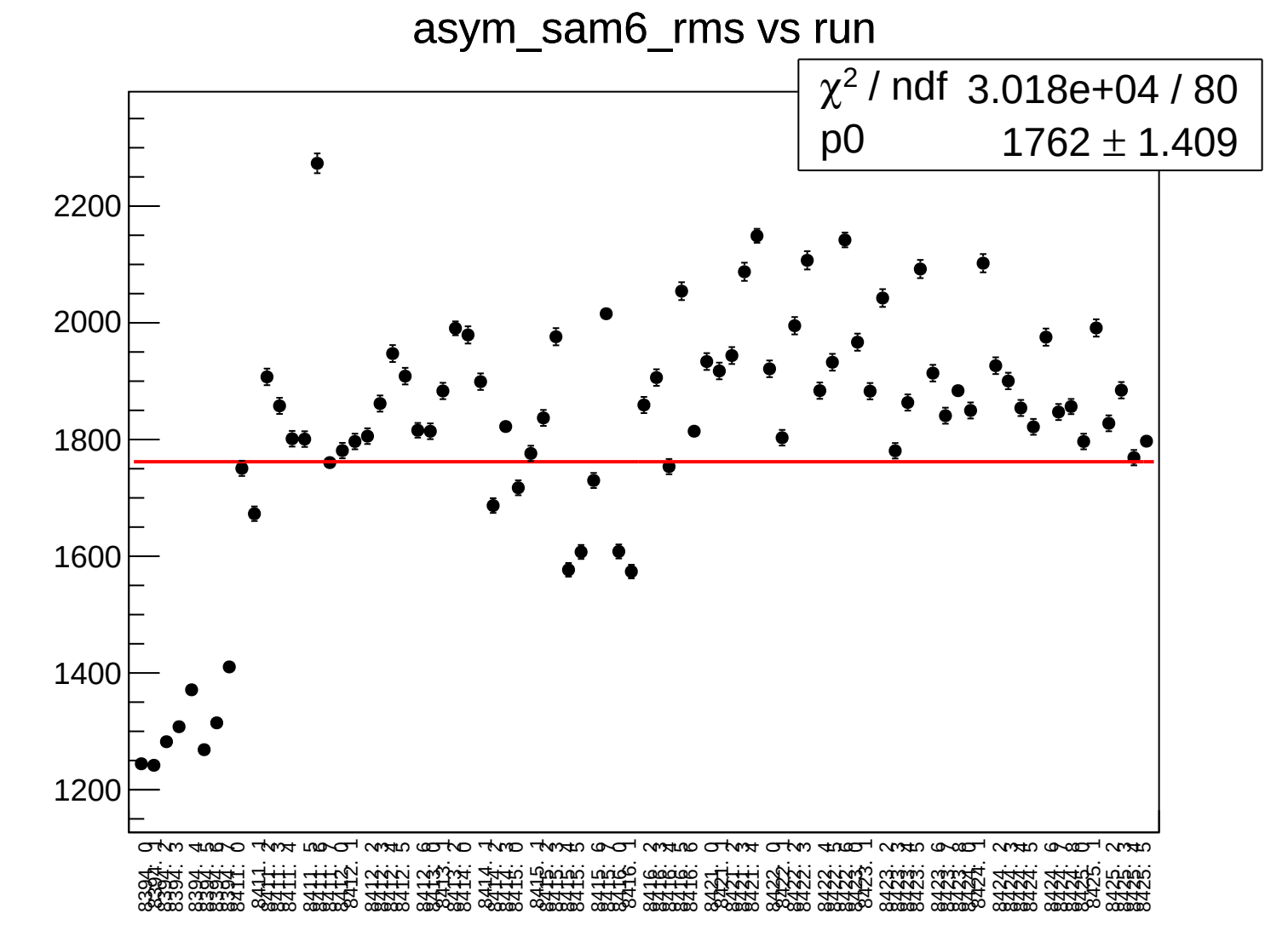

asym_sam5_mean vs run
χ² / ndf 78.89 / 80
p0 4018 ± 1074
pull
Entries 81
Mean −47.11
Std Dev 78.09

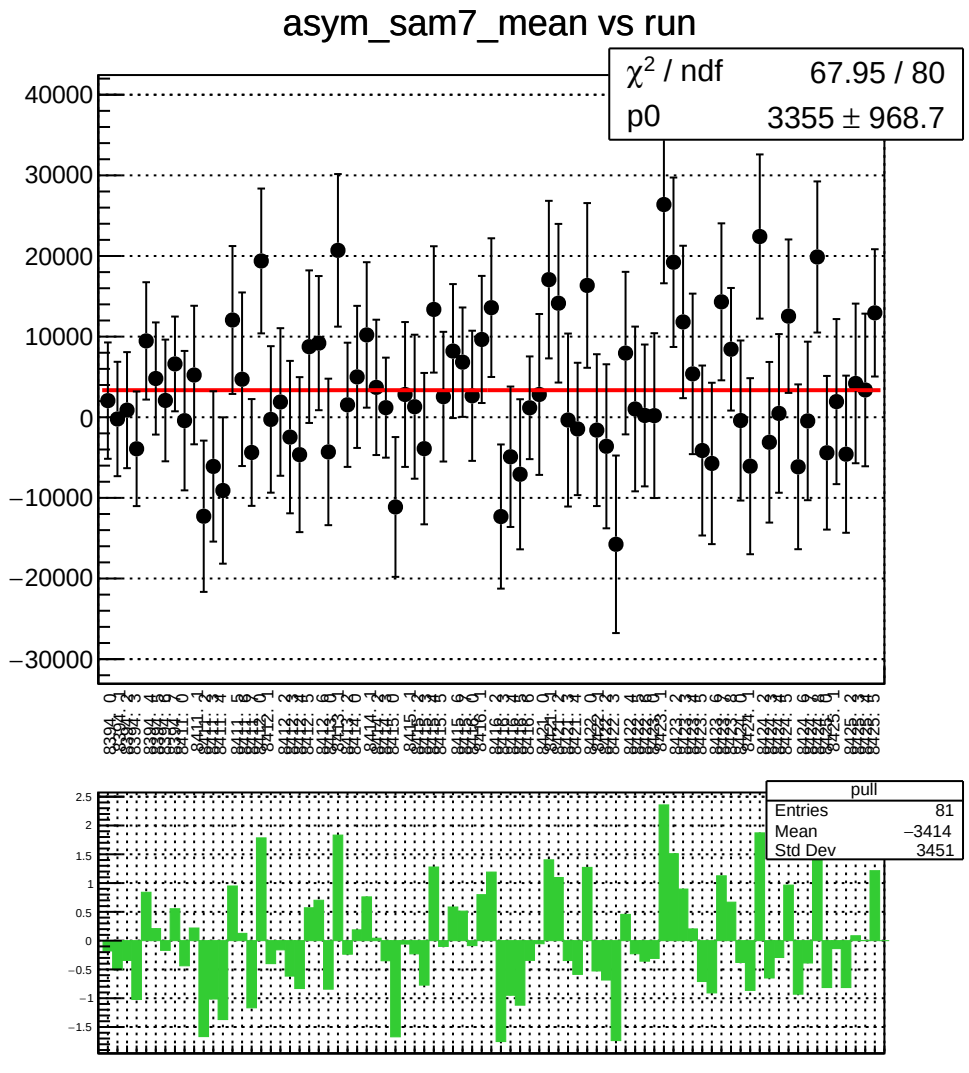

pull1D
Entries 81
Mean −0.01112
Std Dev 0.9868

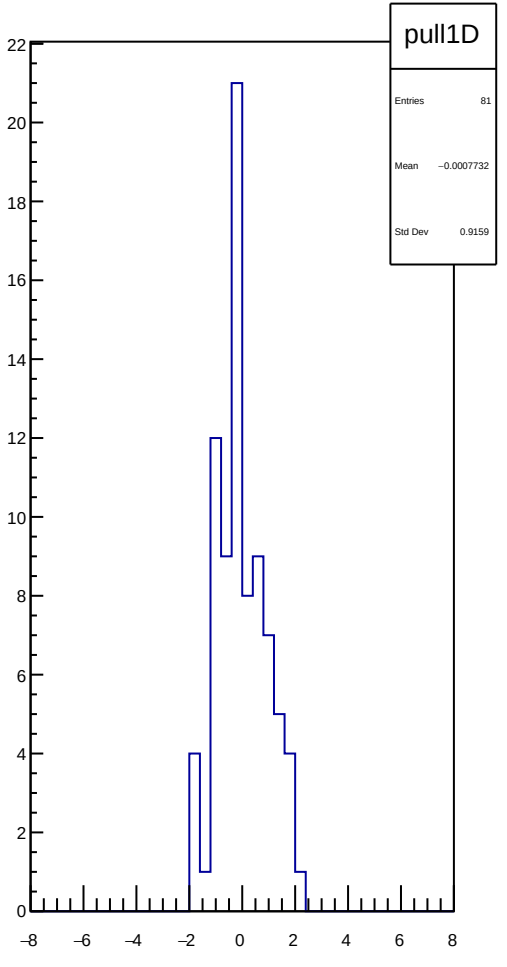

asym_sam5_rms vs run
χ² / ndf 1.006e+04 / 80
p0 956.4 ± 0.7597
1200
1150
1100
1050
1000
950
900
850
800

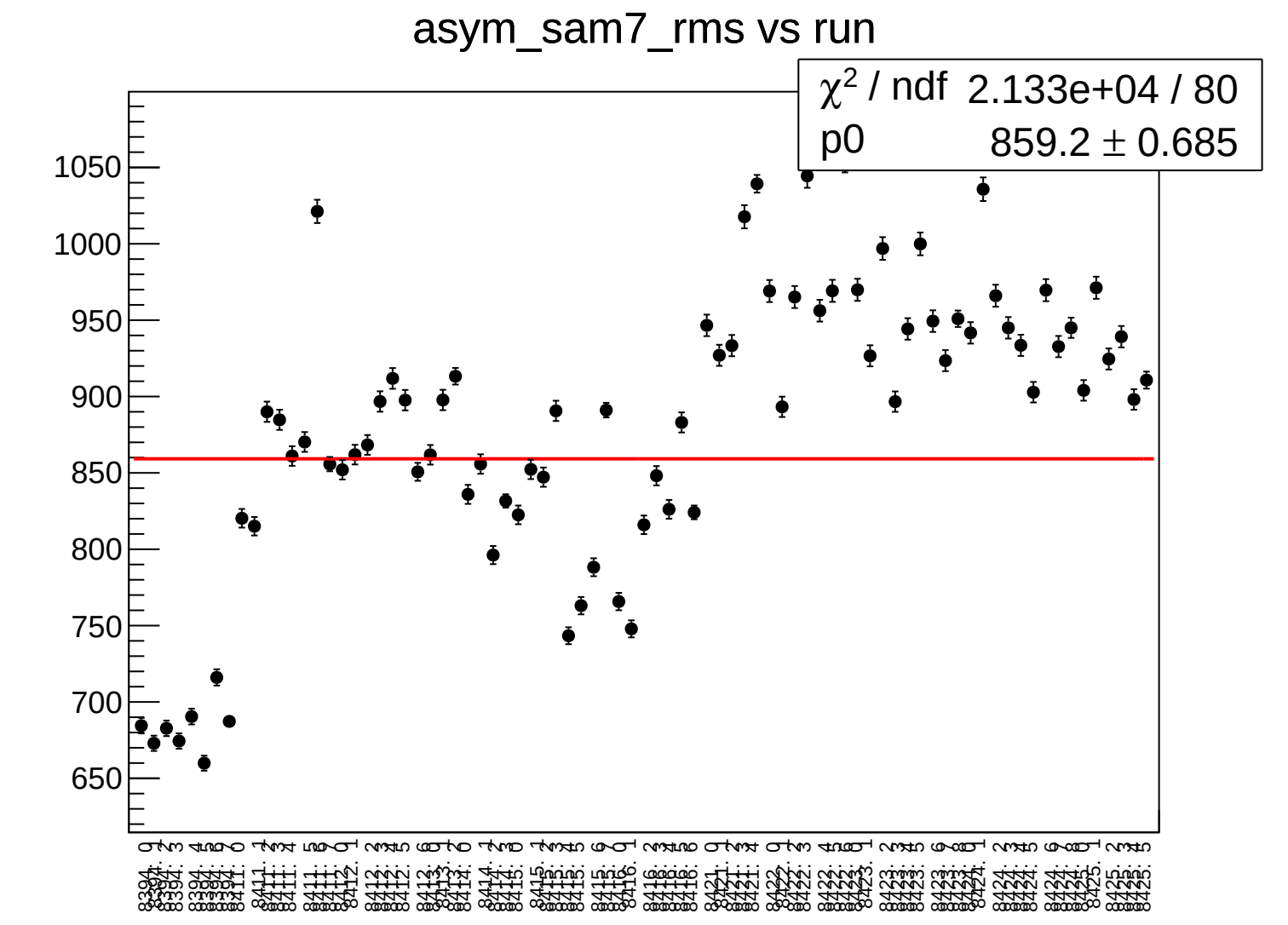

asym_sam6_mean vs run
χ² / ndf 60.26 / 80
p0 −3929 ± 1992
pull
Entries 81
Mean −668.9
Std Dev 708.4

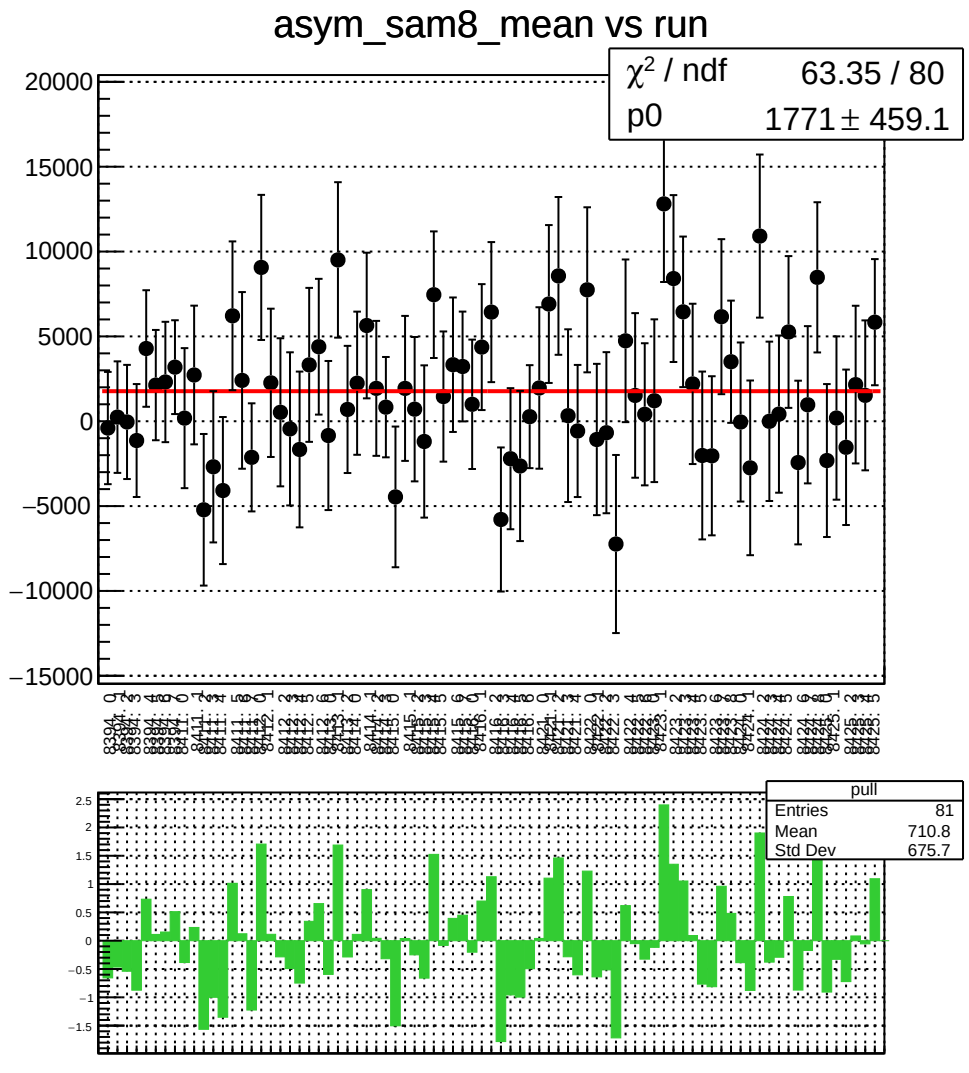

pull1D
Entries 81
Mean 0.002748
Std Dev 0.8625

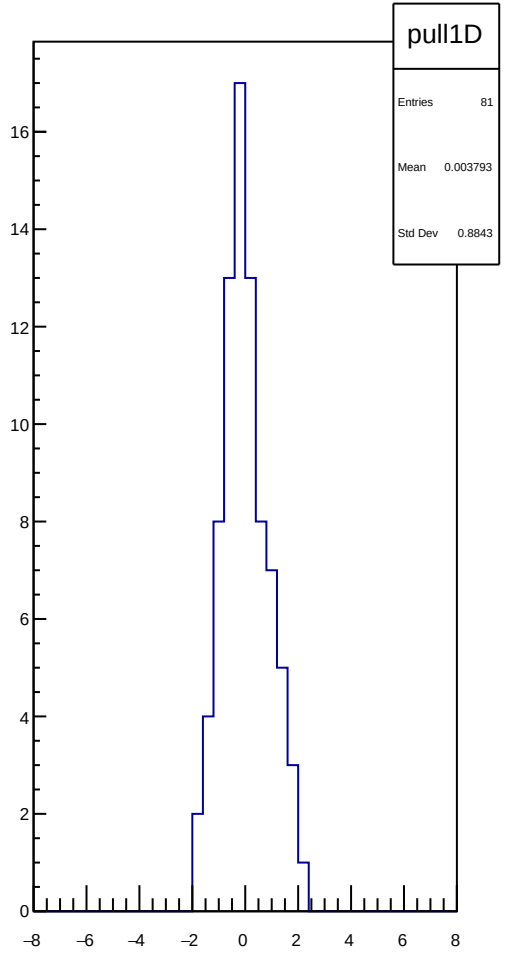

asym_sam6_rms vs run
χ² / ndf 3.018e+04 / 80
p0 1762 ± 1.409
2200
2000
1800
1600
1400
1200

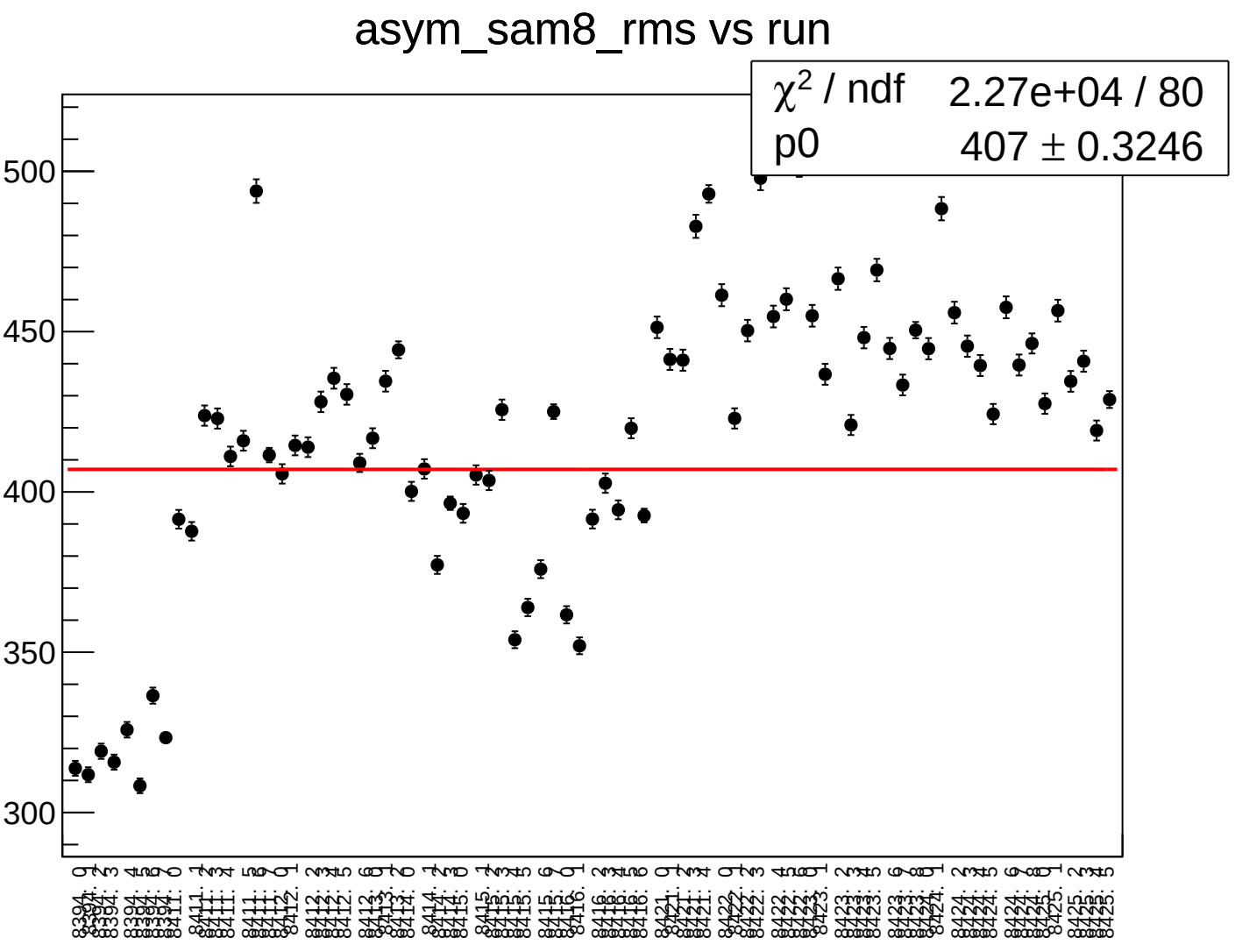

asym_sam7_mean vs run
χ² / ndf 67.95 / 80
p0 3355 ± 968.7
pull
Entries 81
Mean −3414
Std Dev 3451

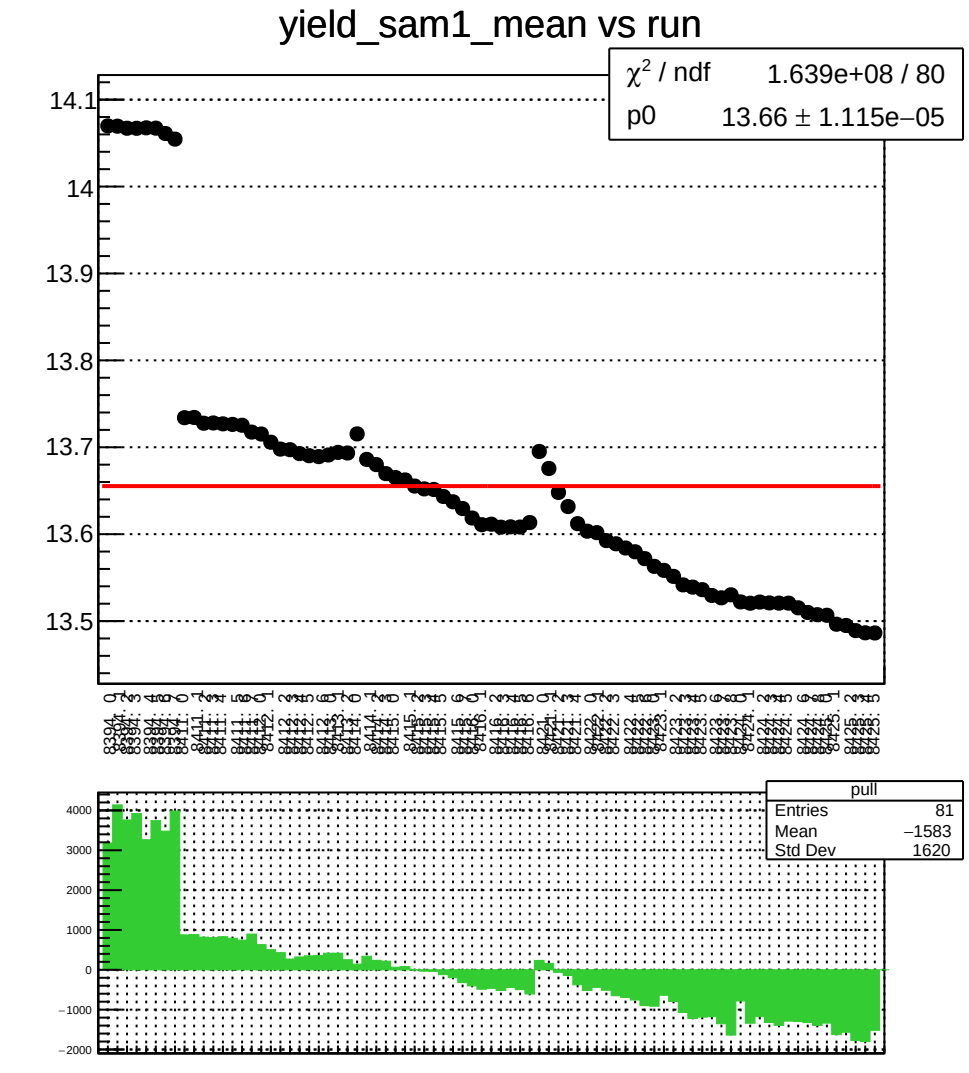

pull1D
Entries 81
Mean −0.0007732
Std Dev 0.9159

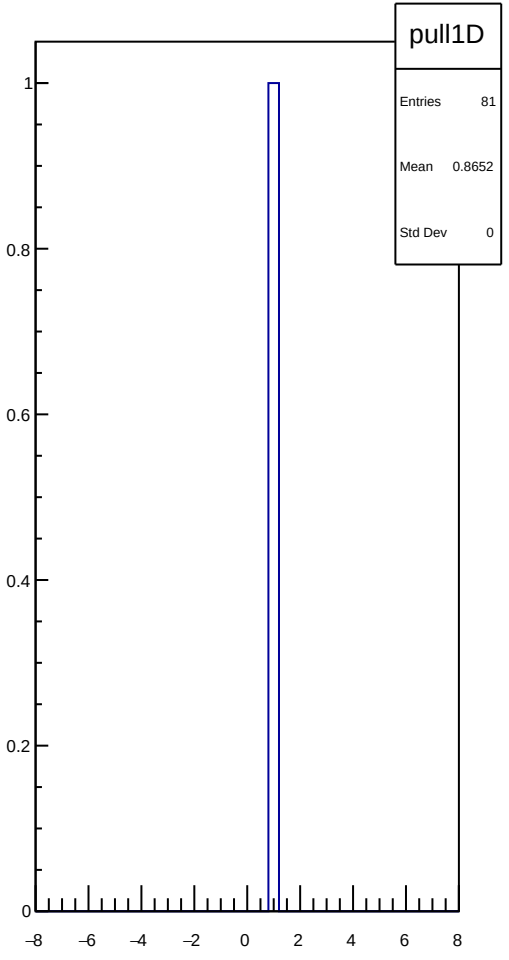

asym_sam7_rms vs run
χ² / ndf 2.133e+04 / 80
p0 859.2 ± 0.685
1050
1000
950
900
850
800
750
700
650

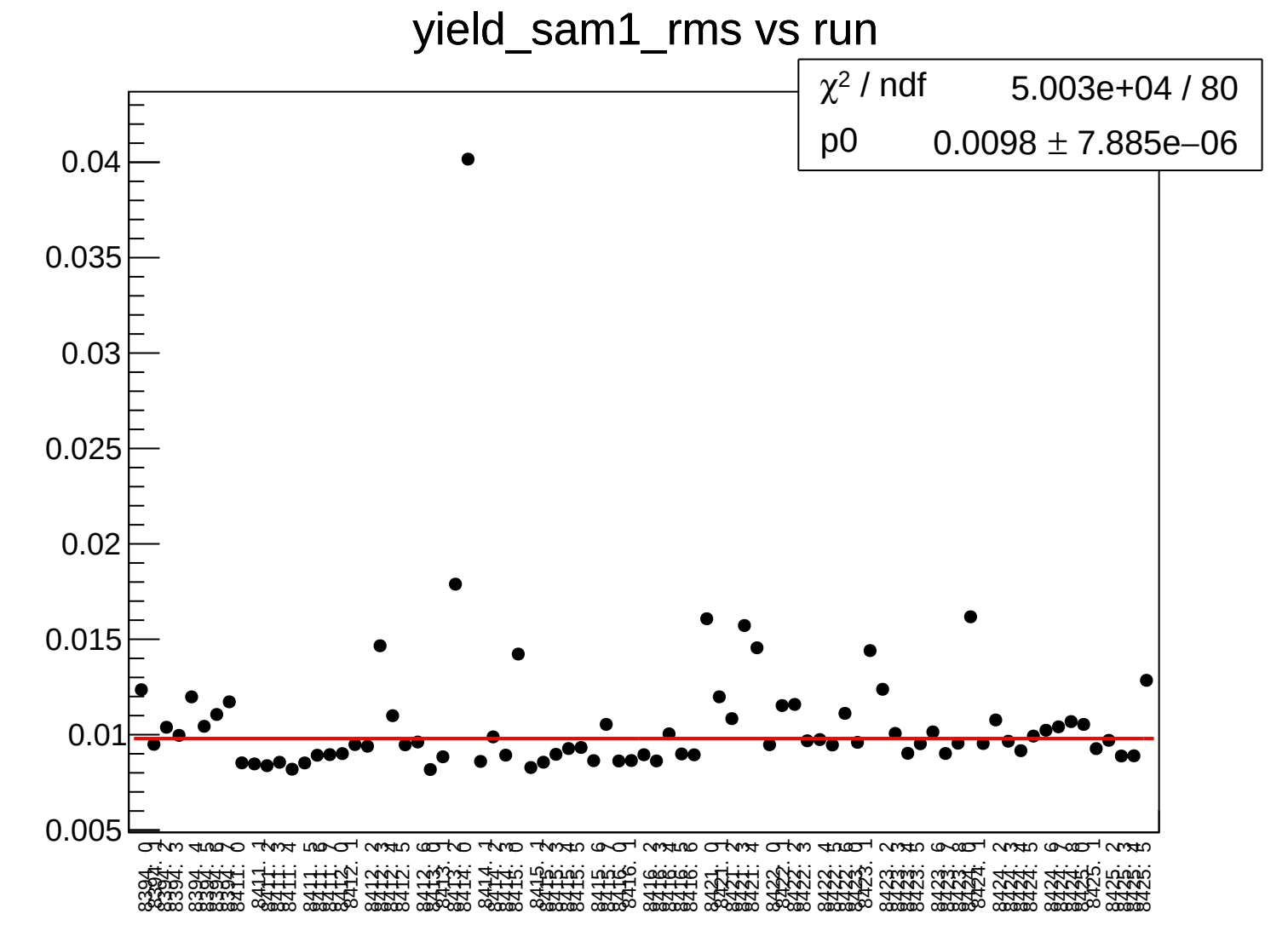

asym_sam8_mean vs run
χ² / ndf 63.35 / 80
p0 1771 ± 459.1
pull
Entries 81
Mean 710.8
Std Dev 675.7

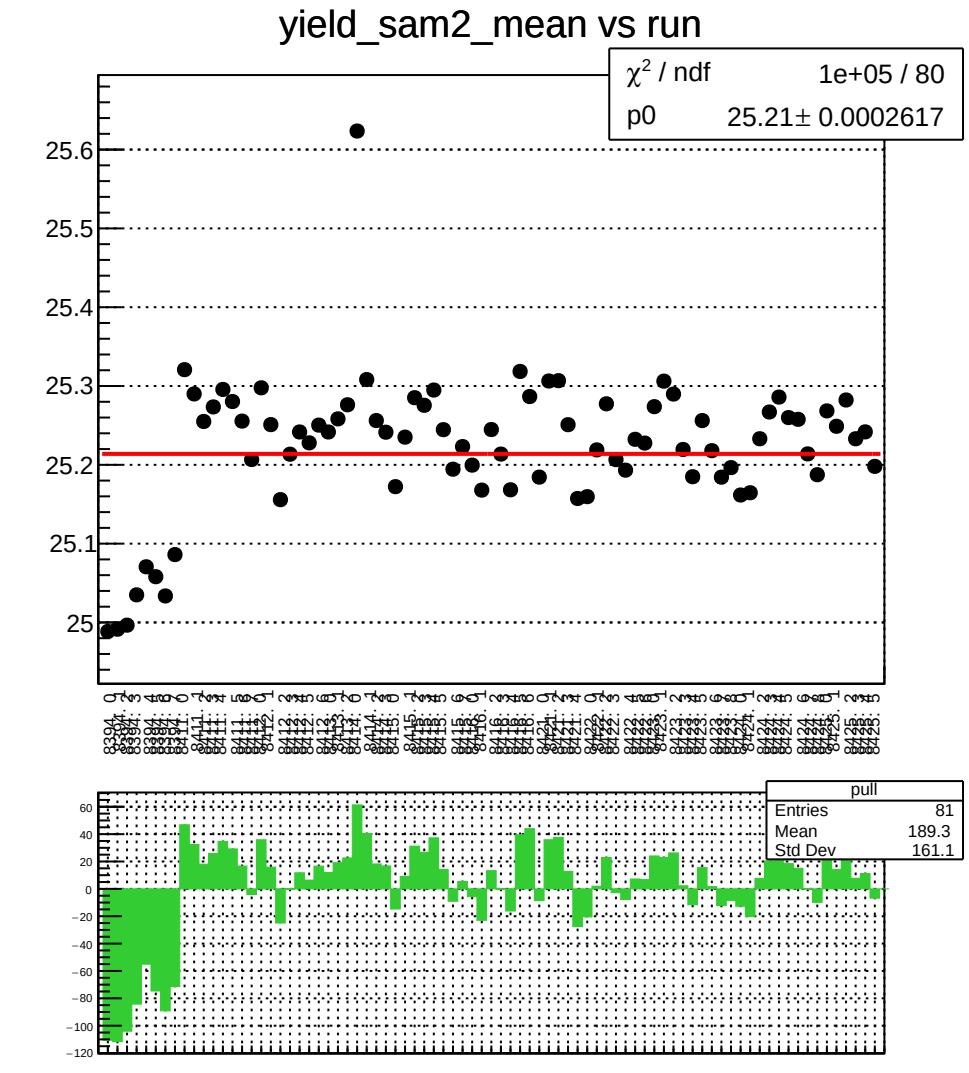

pull1D
Entries 81
Mean 0.003793
Std Dev 0.8843

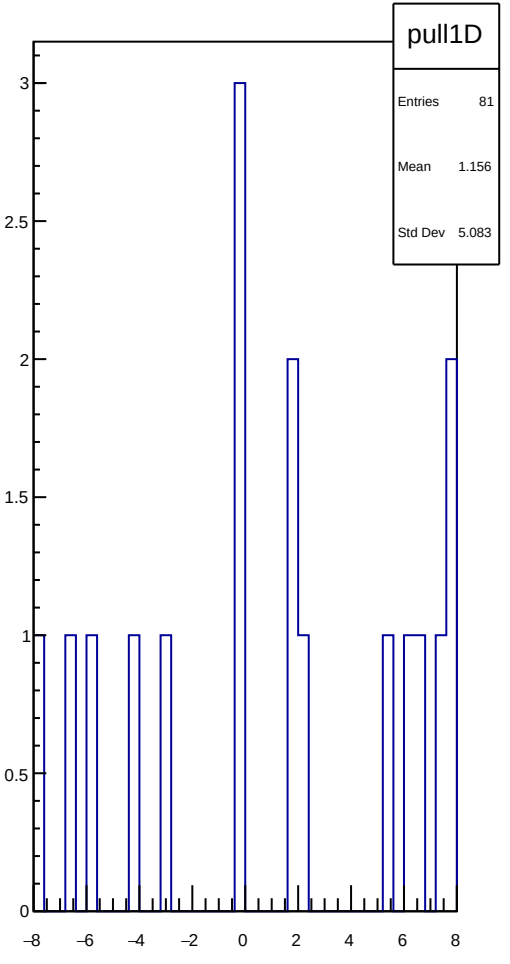

asym_sam8_rms vs run
χ² / ndf 2.27e+04 / 80
p0 407 ± 0.3246
500
450
400
350
300

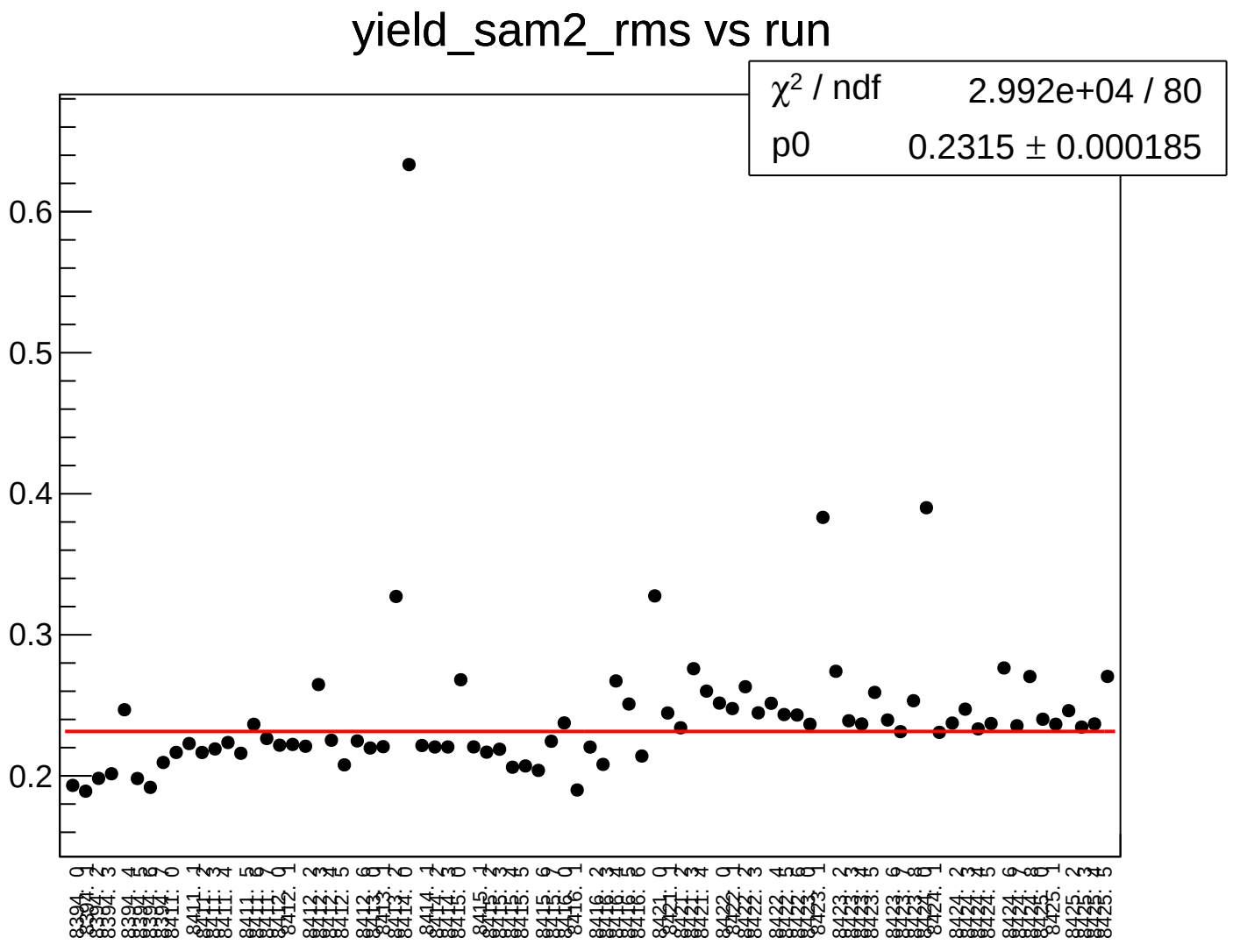

yield_sam1_mean vs run
χ² / ndf 1.639e+08 / 80
p0 13.66 ± 1.115e−05
14.1
14
13.9
13.8
13.7
13.6
13.5
pull
Entries 81
Mean −1583
Std Dev 1620
4000
3000
2000
1000
0
−1000
−2000

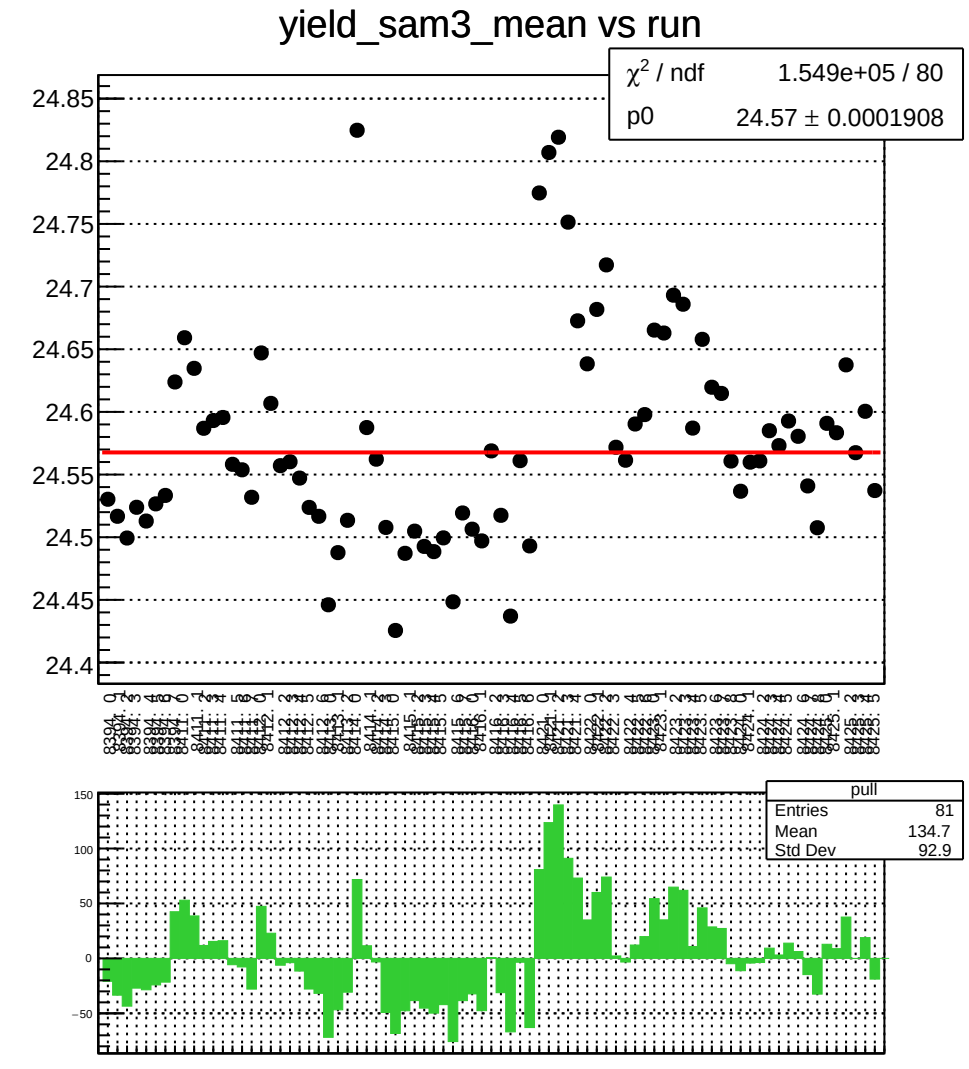

pull1D
Entries 81
Mean 0.8652
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

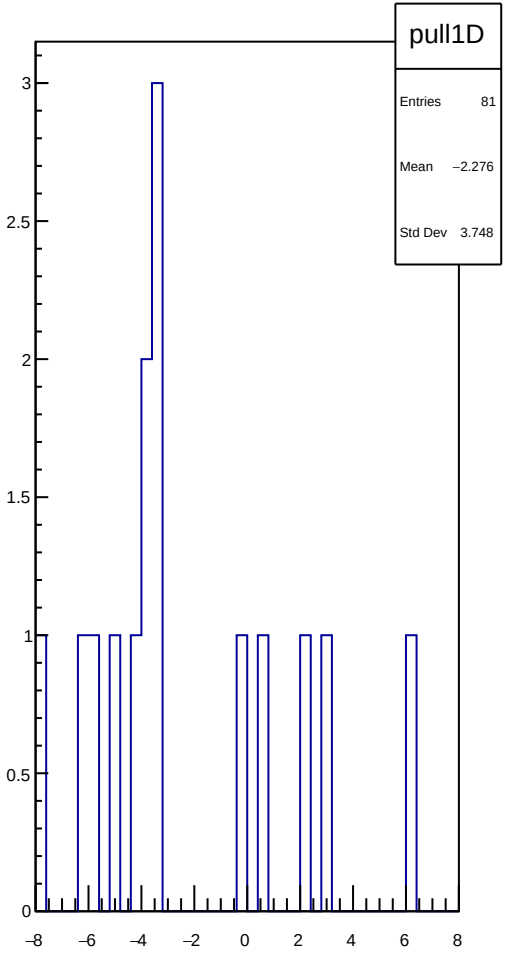

yield_sam1_rms vs run
χ² / ndf 5.003e+04 / 80
p0 0.0098 ± 7.885e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

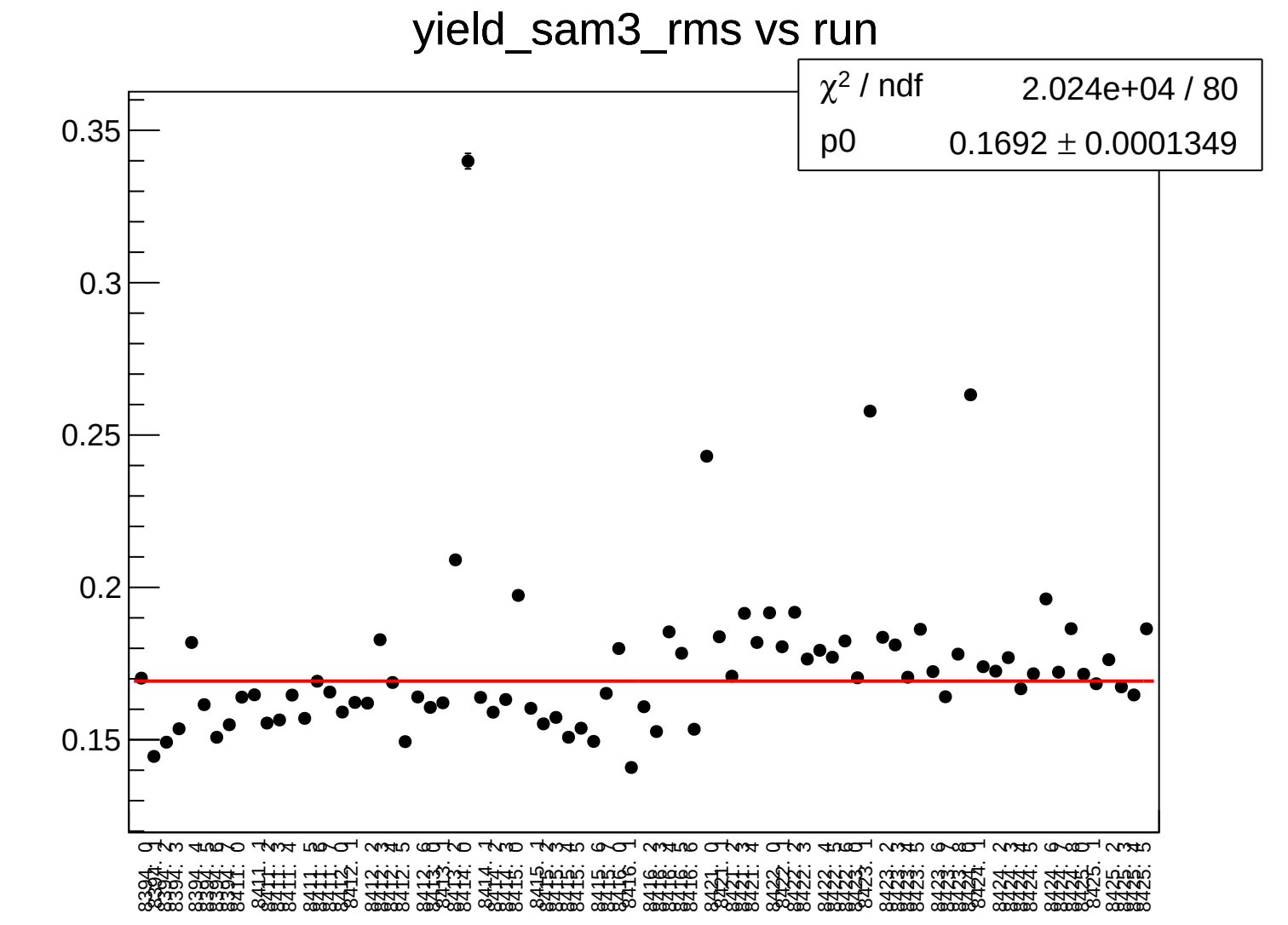

yield_sam2_mean vs run
χ² / ndf 1e+05 / 80
p0 25.21± 0.0002617
25.6
25.5
25.4
25.3
25.2
25.1
25
pull
Entries 81
Mean 189.3
Std Dev 161.1
60
40
20
0
−20
−40
−60
−80
−100
−120

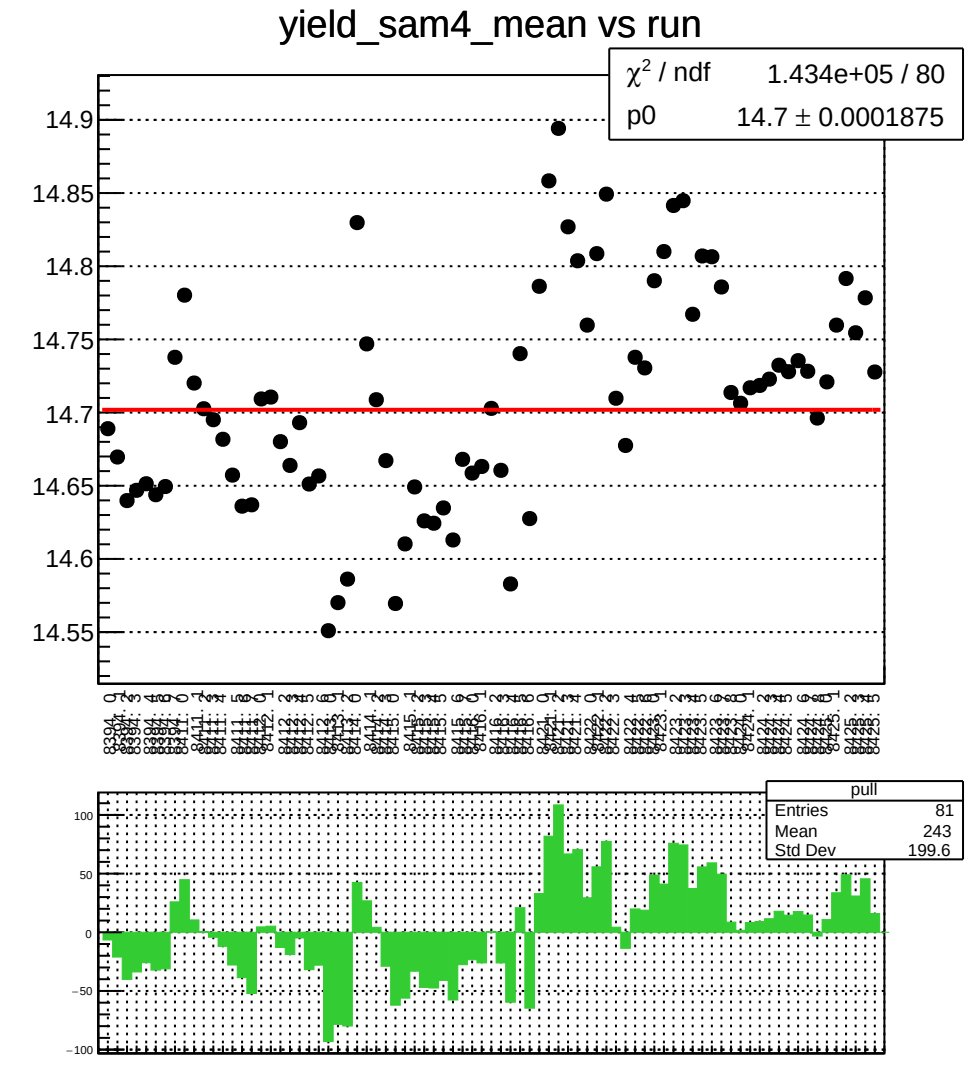

pull1D
Entries 81
Mean 1.156
Std Dev 5.083
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

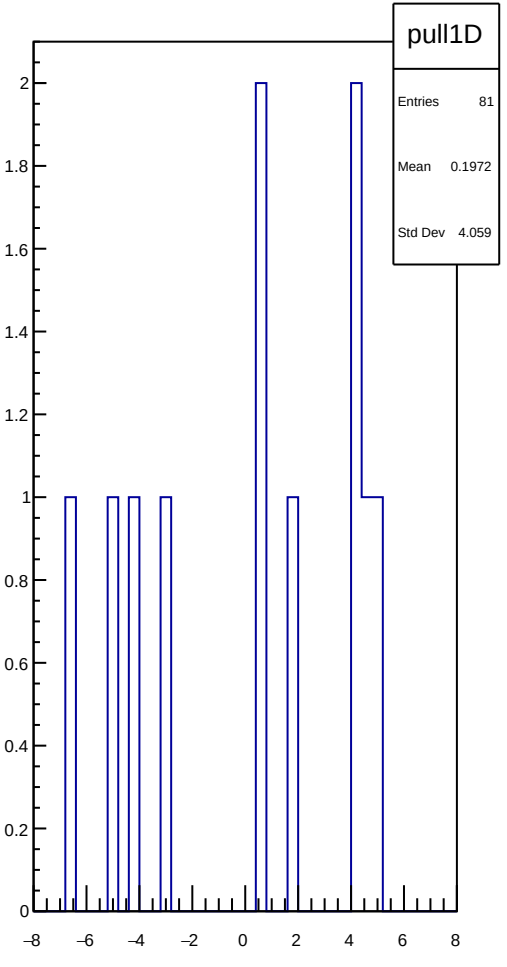

yield_sam2_rms vs run
χ^2 / ndf 2.992e+04 / 80
p0 0.2315 ± 0.000185
0.6
0.5
0.4
0.3
0.2

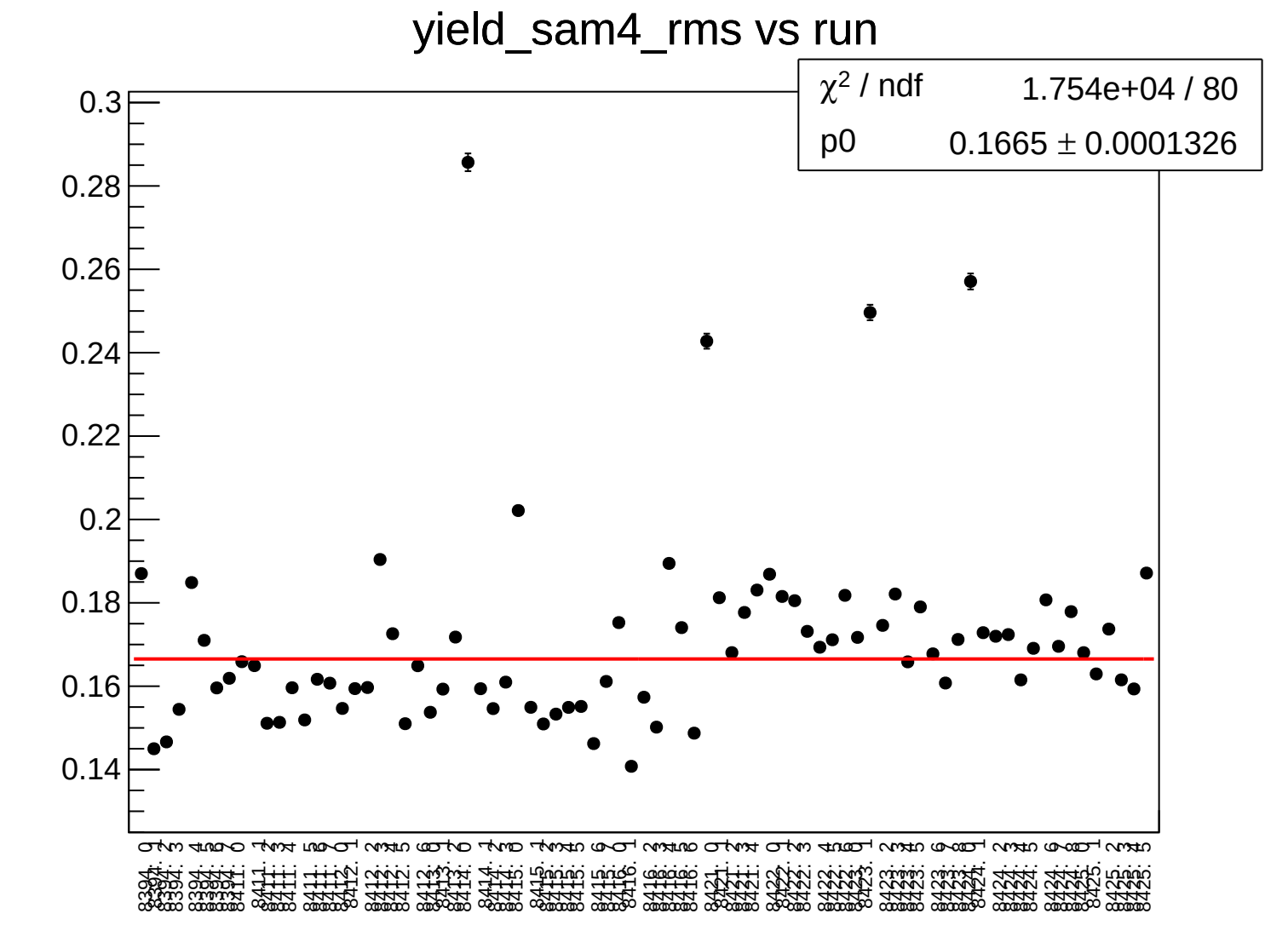

yield_sam3_mean vs run
χ² / ndf 1.549e+05 / 80
p0 24.57 ± 0.0001908
24.85
24.8
24.75
24.7
24.65
24.6
24.55
24.5
24.45
24.4
pull
Entries 81
Mean 134.7
Std Dev 92.9
150
100
50
0
−50

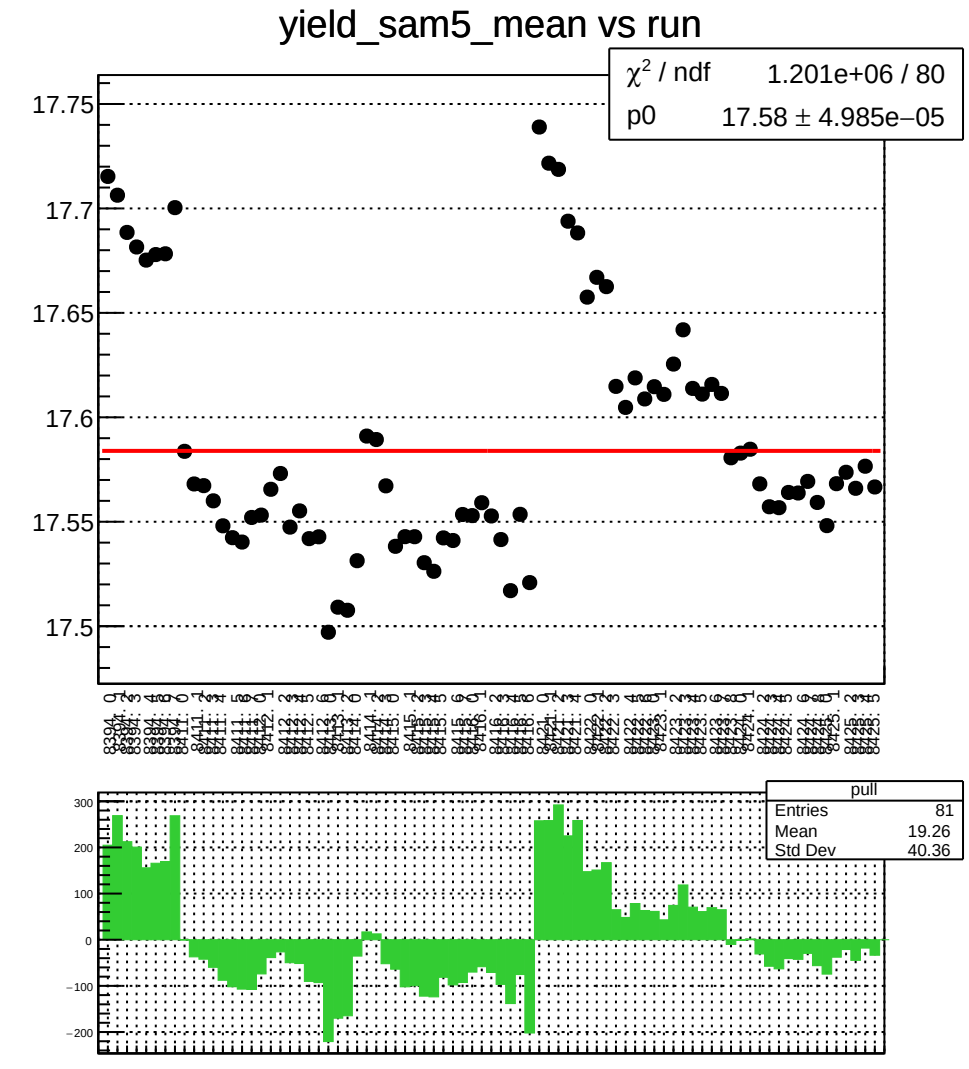

pull1D
Entries 81
Mean −2.276
Std Dev 3.748
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

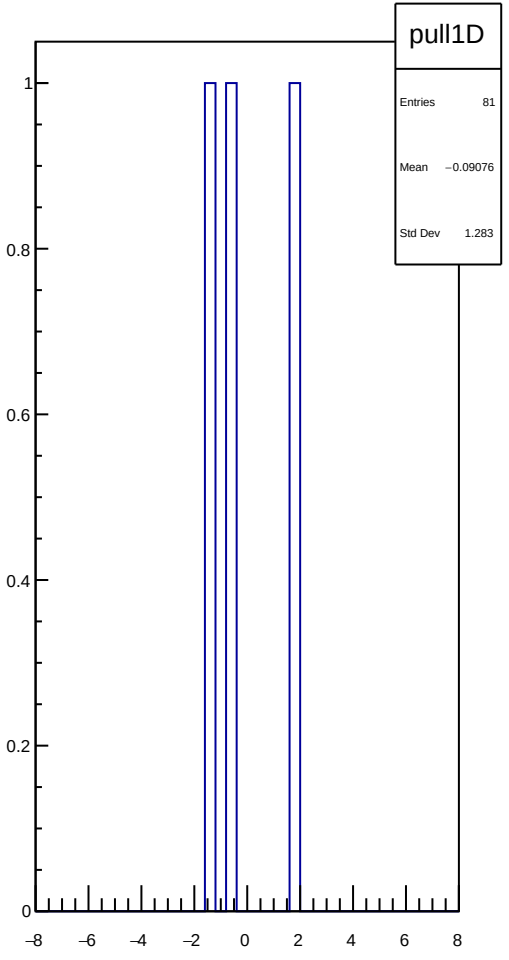

yield_sam3_rms vs run
χ² / ndf 2.024e+04 / 80
p0 0.1692 ± 0.0001349
0.35
0.3
0.25
0.2
0.15

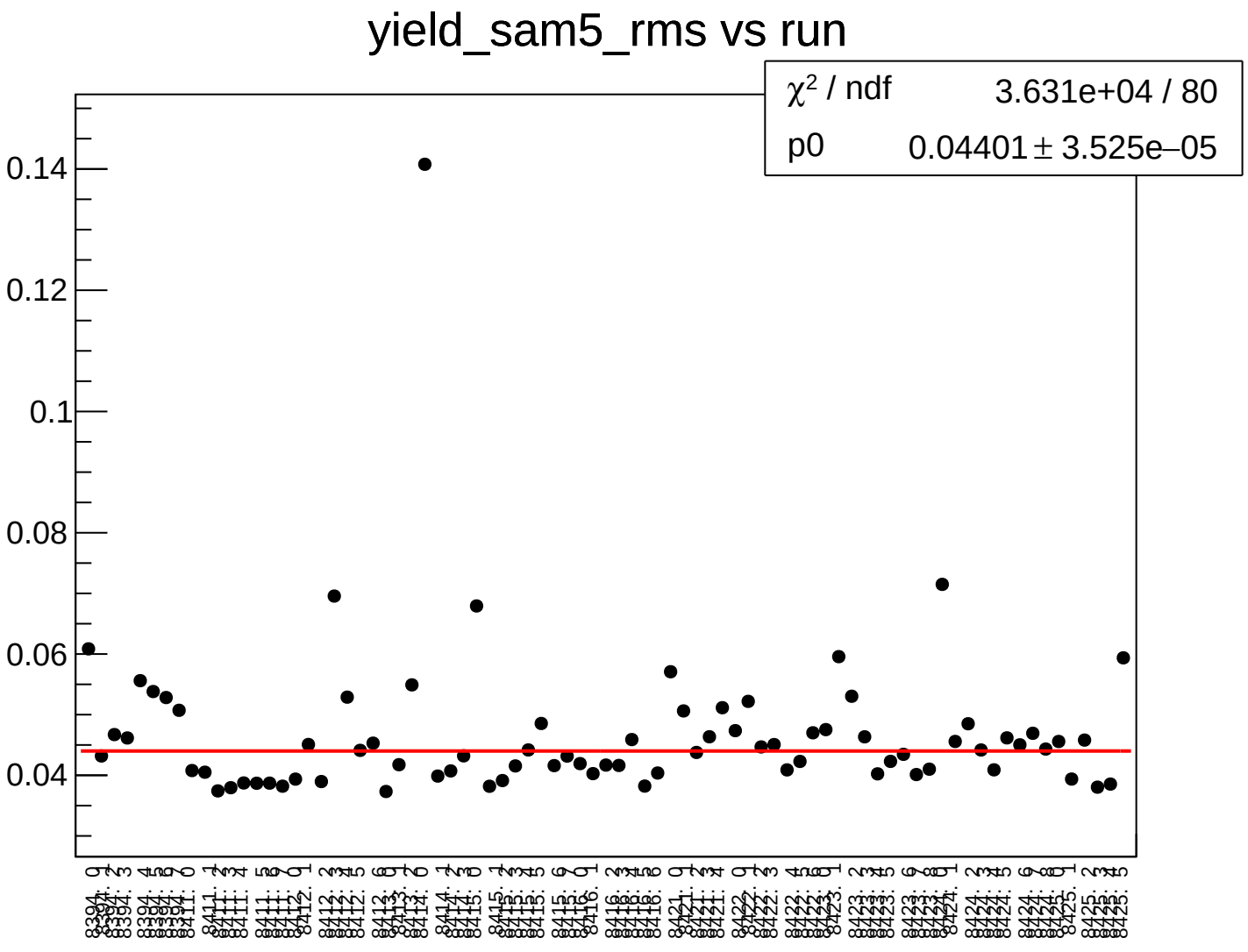

yield_sam4_mean vs run
χ² / ndf 1.434e+05 / 80
p0 14.7 ± 0.0001875
14.9
14.85
14.8
14.75
14.7
14.65
14.6
14.55
pull
Entries 81
Mean 243
Std Dev 199.6
100
50
0
−50
−100

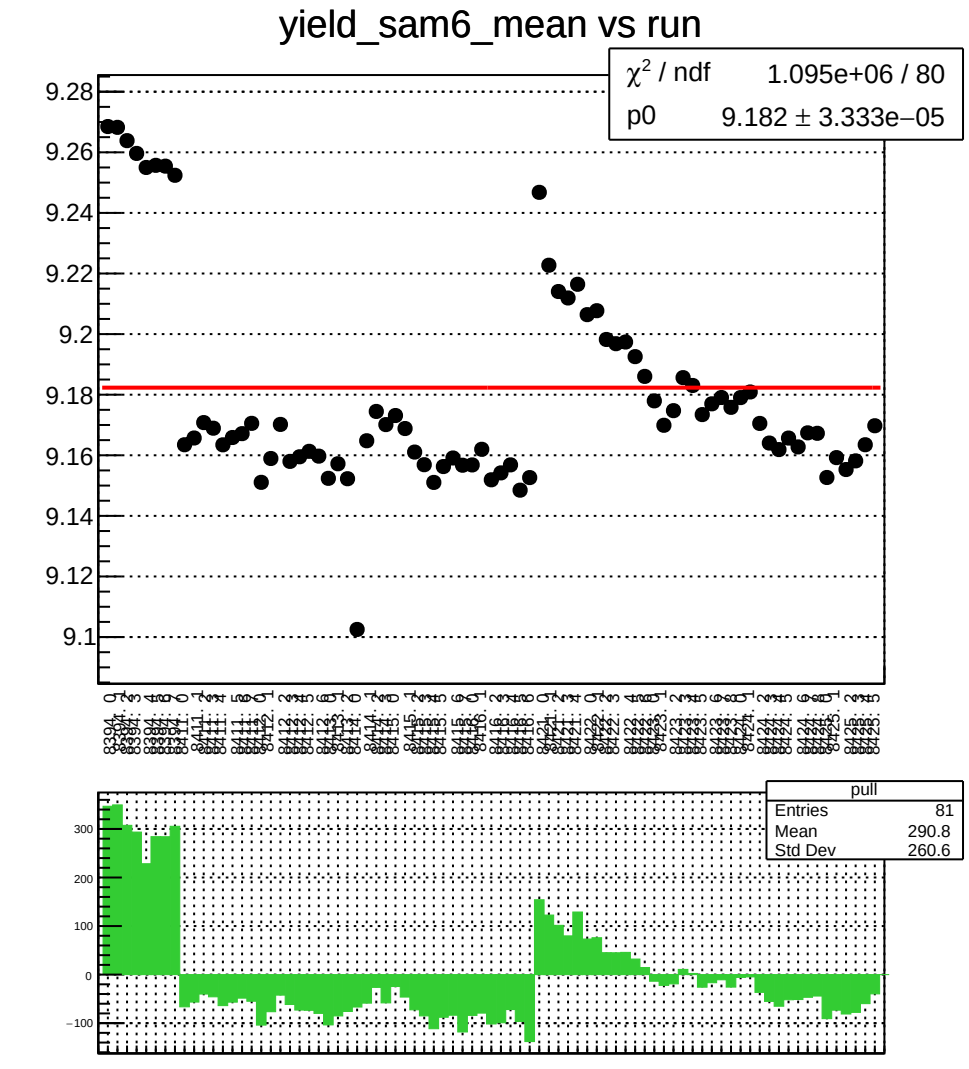

pull1D
Entries 81
Mean 0.1972
Std Dev 4.059
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

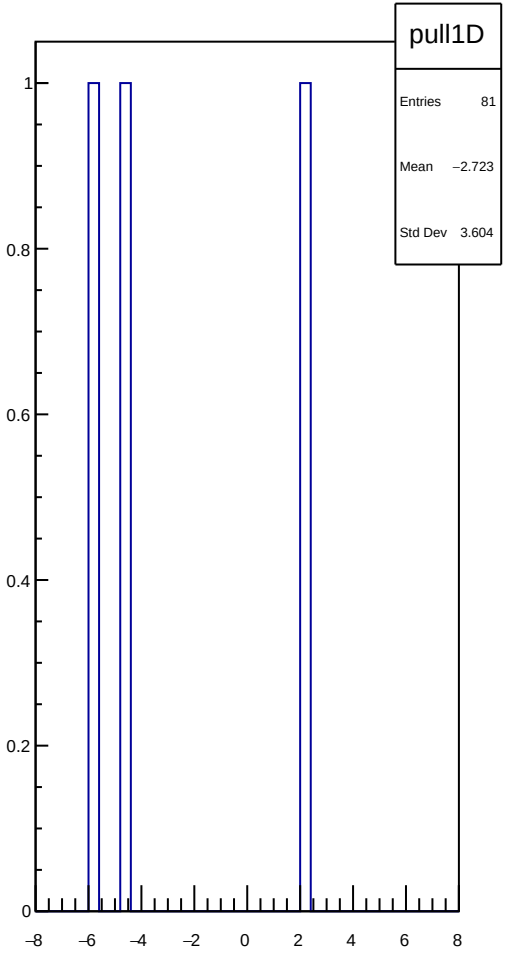

yield_sam4_rms vs run
χ² / ndf 1.754e+04 / 80
p0 0.1665 ± 0.0001326
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14

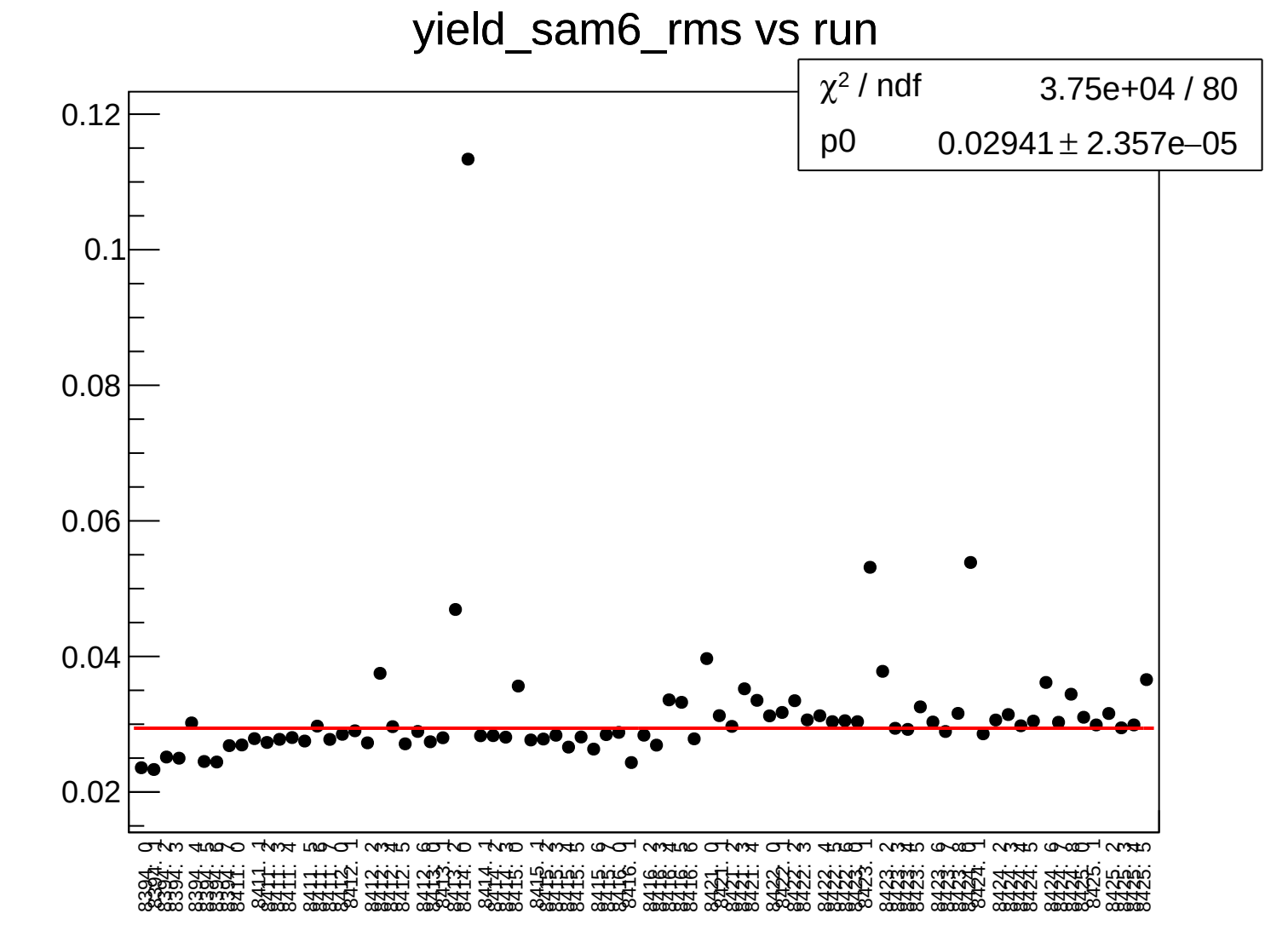

yield_sam5_mean vs run
χ² / ndf 1.201e+06 / 80
p0 17.58 ± 4.985e−05
17.75
17.7
17.65
17.6
17.55
17.5
pull
Entries 81
Mean 19.26
Std Dev 40.36
300
200
100
0
−100
−200

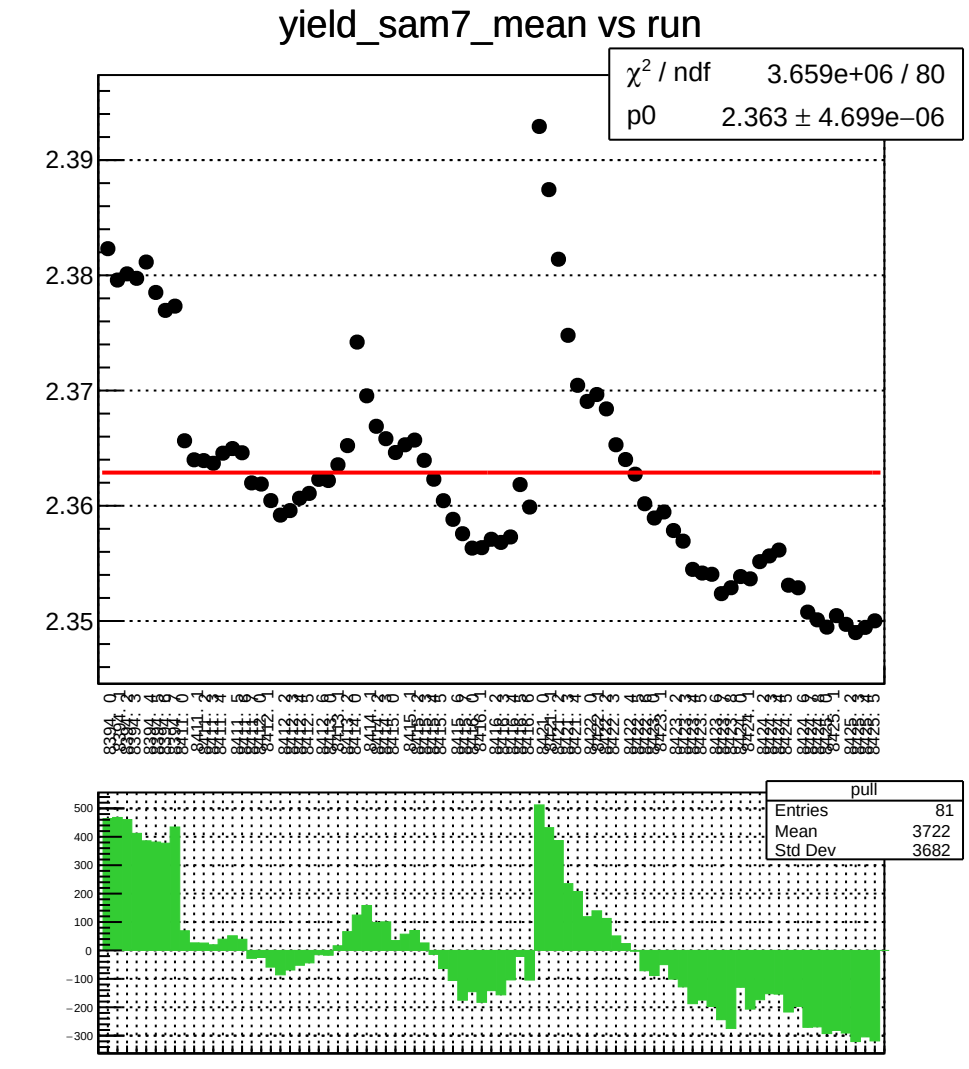

pull1D
Entries 81
Mean −0.09076
Std Dev 1.283
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

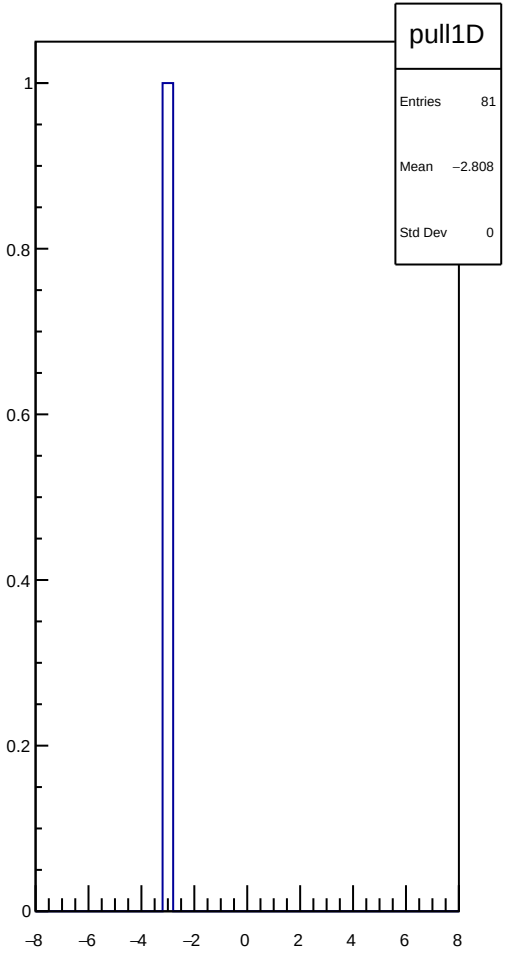

yield_sam5_rms vs run
χ² / ndf 3.631e+04 / 80
p0 0.04401 ± 3.525e−05
0.14
0.12
0.1
0.08
0.06
0.04

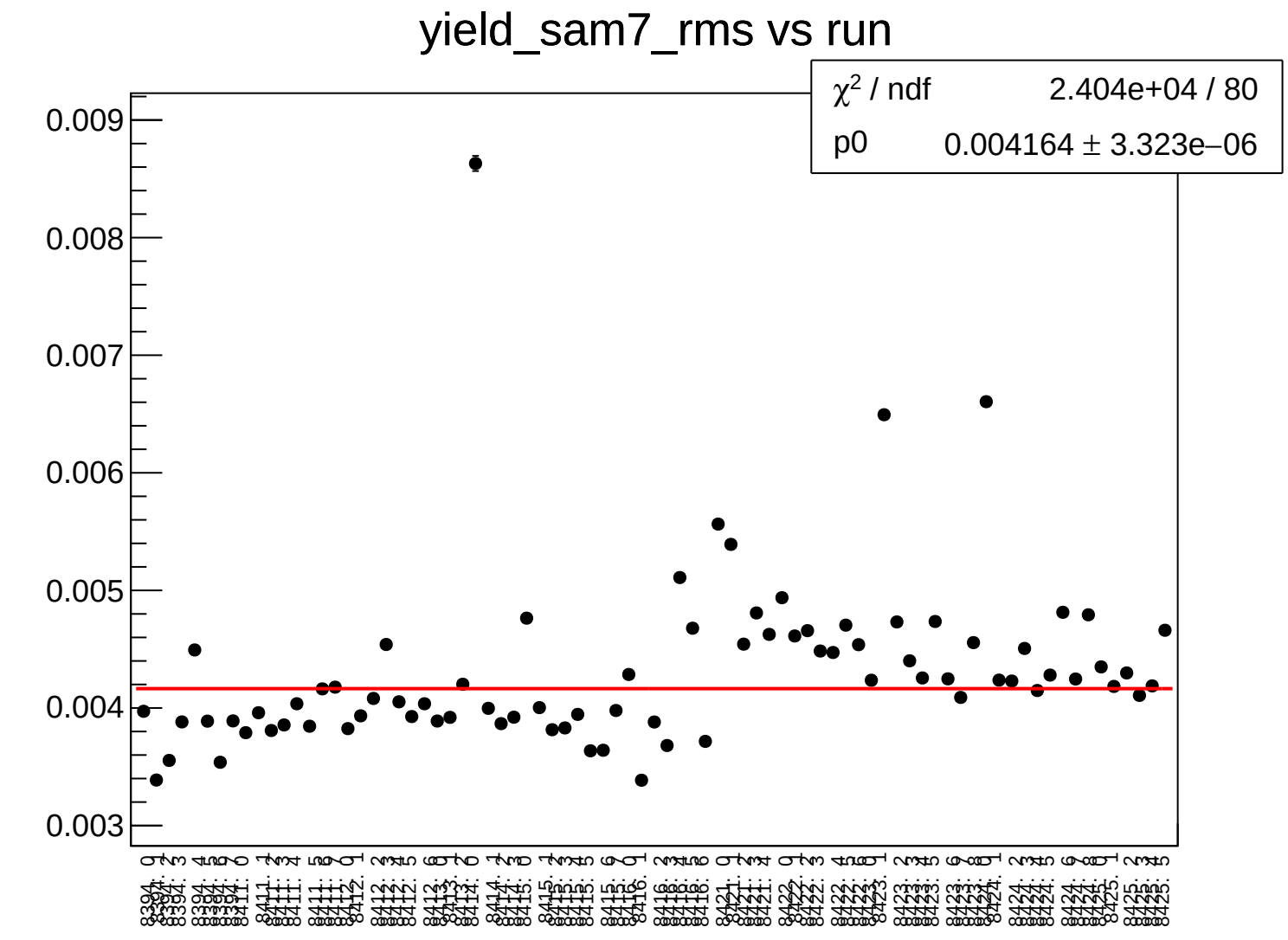

yield_sam6_mean vs run
χ² / ndf 1.095e+06 / 80
p0 9.182 ± 3.333e−05
9.28
9.26
9.24
9.22
9.2
9.18
9.16
9.14
9.12
9.1
pull
Entries 81
Mean 290.8
Std Dev 260.6
300
200
100
0
−100

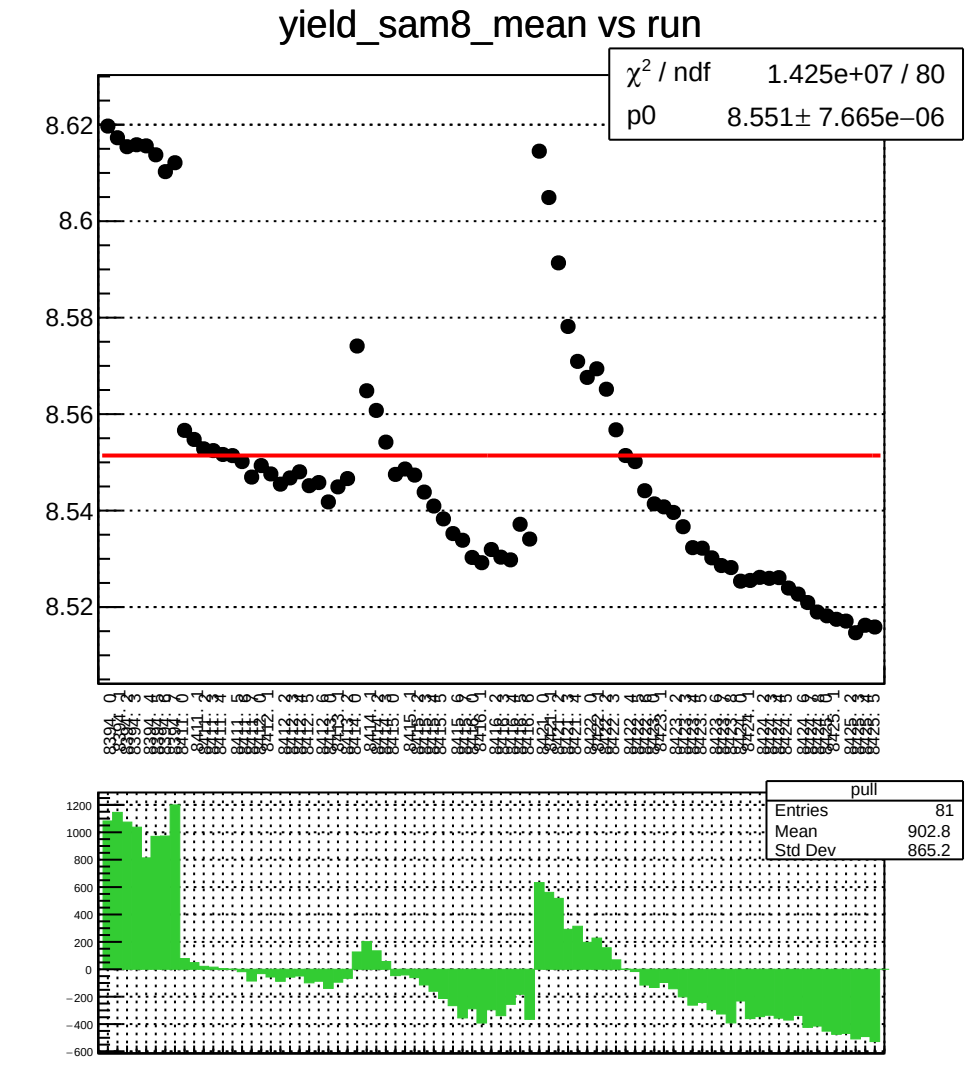

pull1D
Entries 81
Mean −2.723
Std Dev 3.604
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

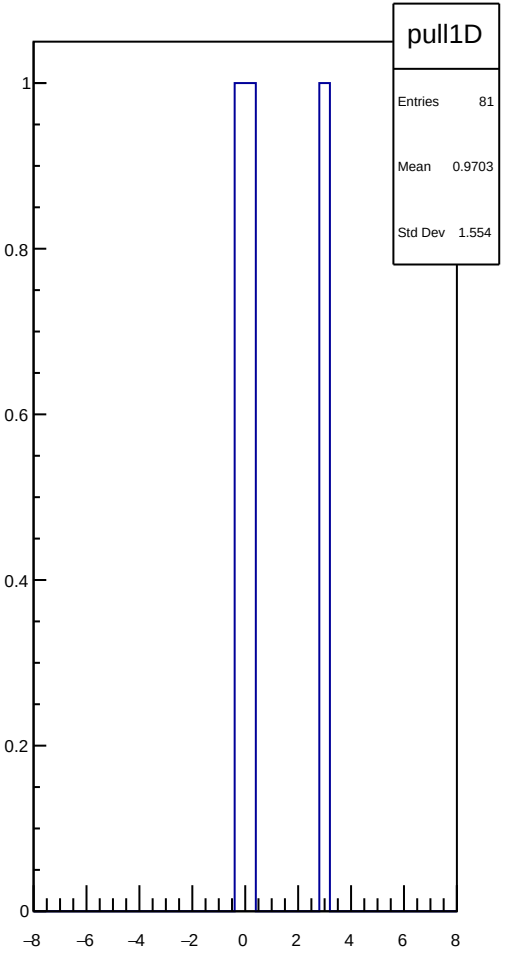

yield_sam6_rms vs run
χ² / ndf 3.75e+04 / 80
p0 0.02941 ± 2.357e–05
0.12
0.1
0.08
0.06
0.04
0.02

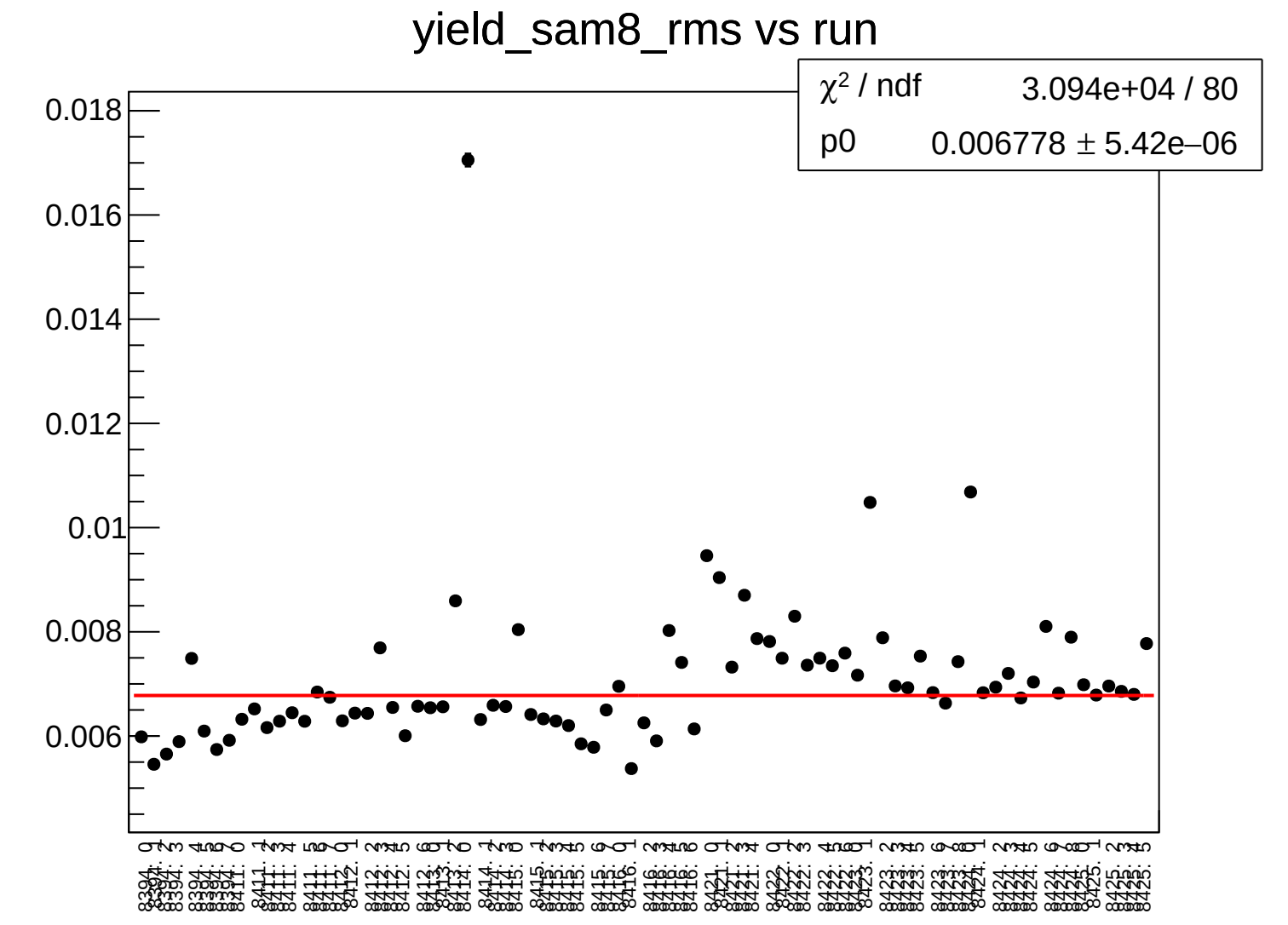

yield_sam7_mean vs run
χ² / ndf 3.659e+06 / 80
p0 2.363 ± 4.699e−06
2.39
2.38
2.37
2.36
2.35
pull
Entries 81
Mean 3722
Std Dev 3682
500
400
300
200
100
0
−100
−200
−300

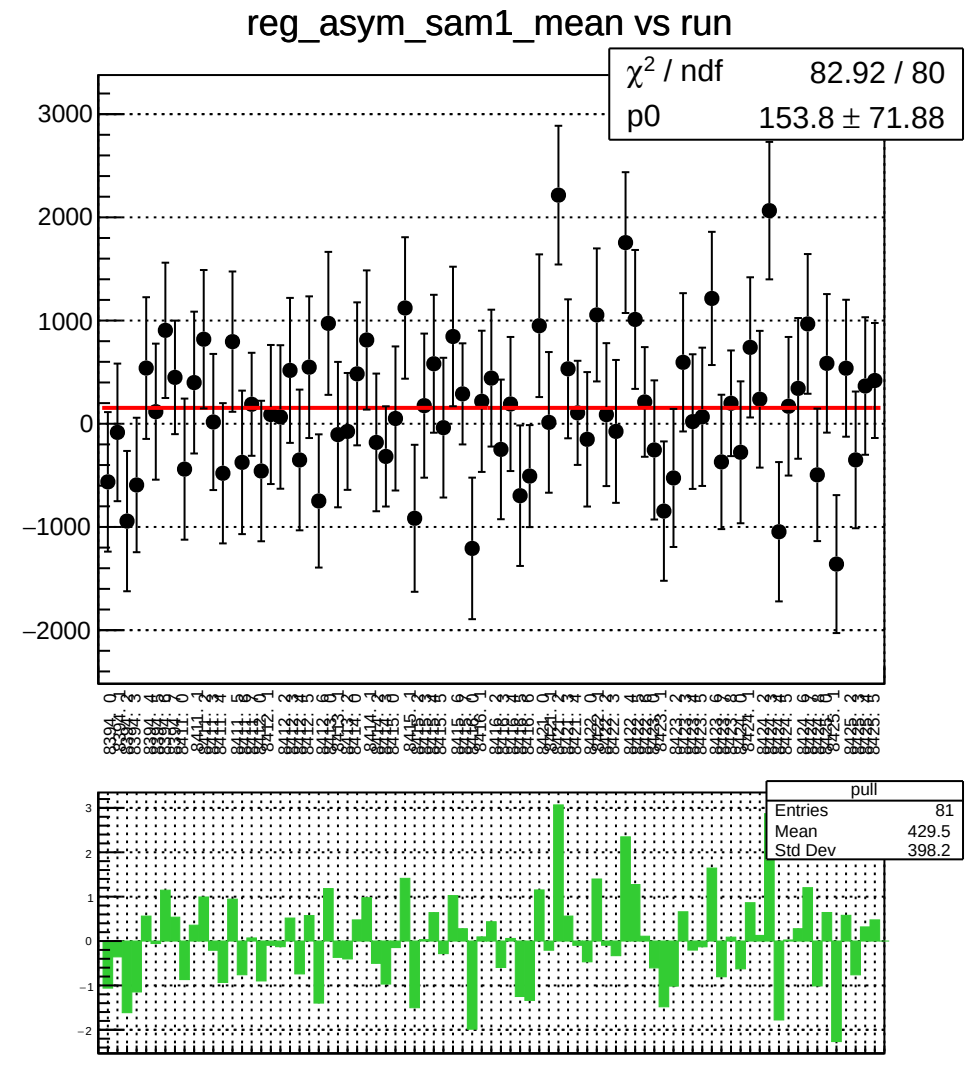

pull1D
Entries 81
Mean −2.808
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

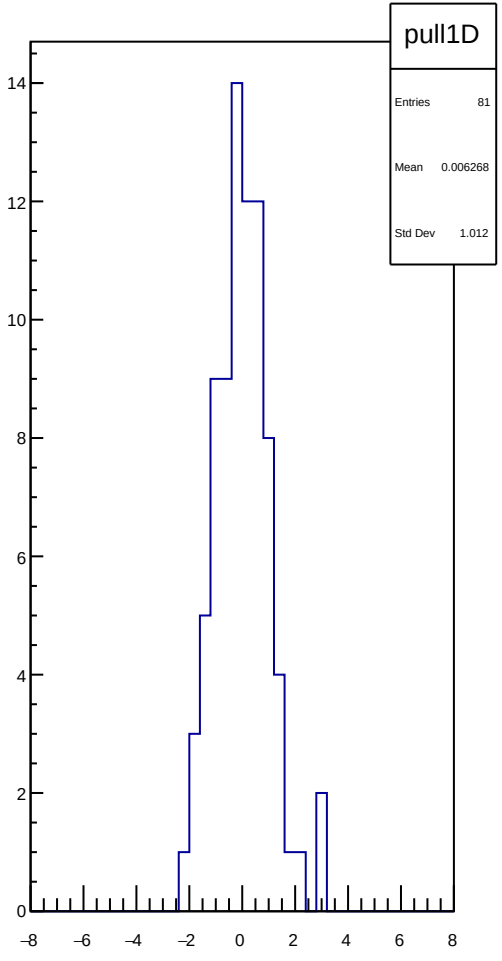

yield_sam7_rms vs run
χ² / ndf 2.404e+04 / 80
p0 0.004164 ± 3.323e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

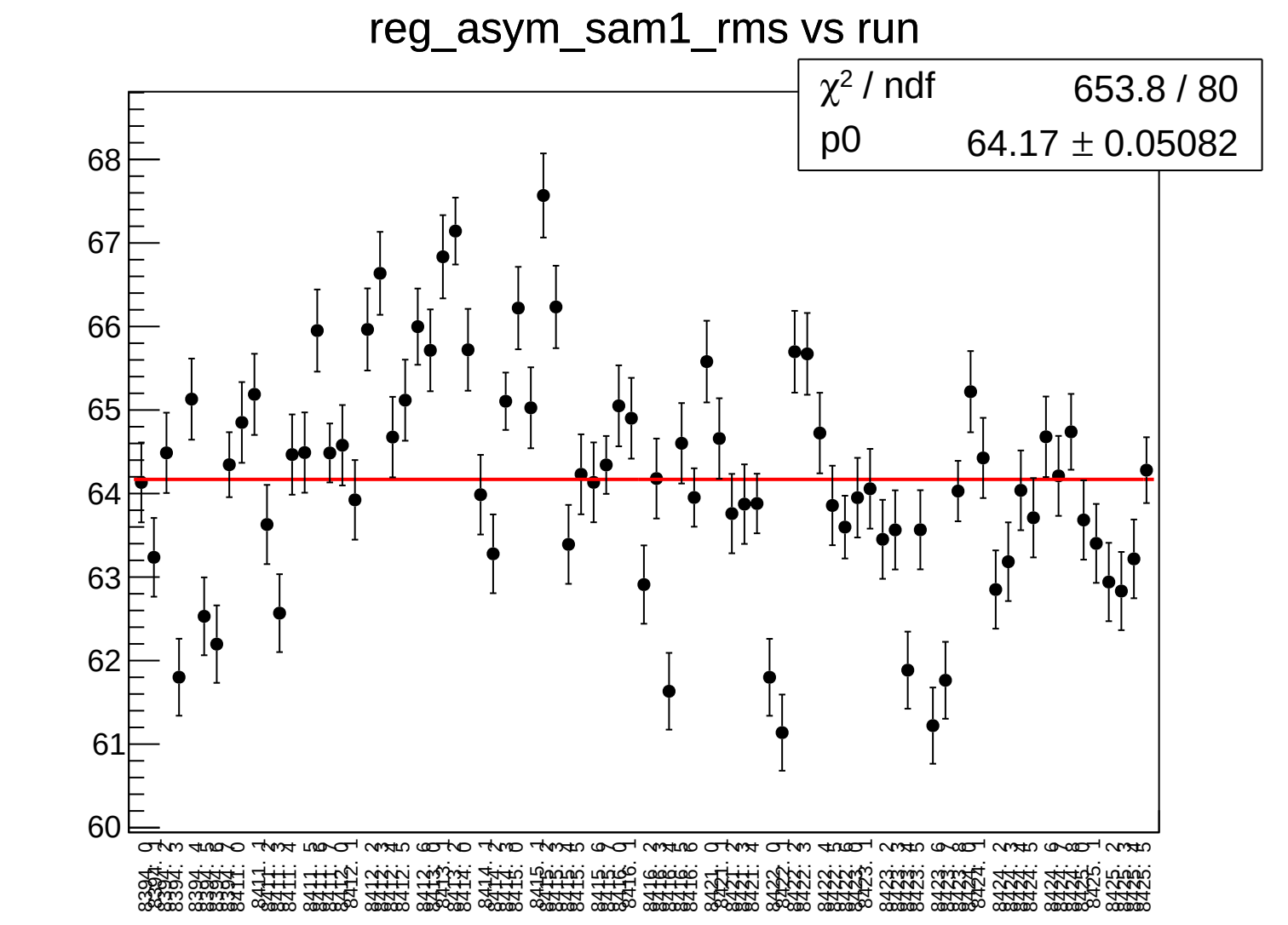

yield_sam8_mean vs run
χ² / ndf 1.425e+07 / 80
p0 8.551± 7.665e−06
8.62
8.6
8.58
8.56
8.54
8.52
pull
Entries 81
Mean 902.8
Std Dev 865.2
1200
1000
800
600
400
200
0
−200
−400
−600

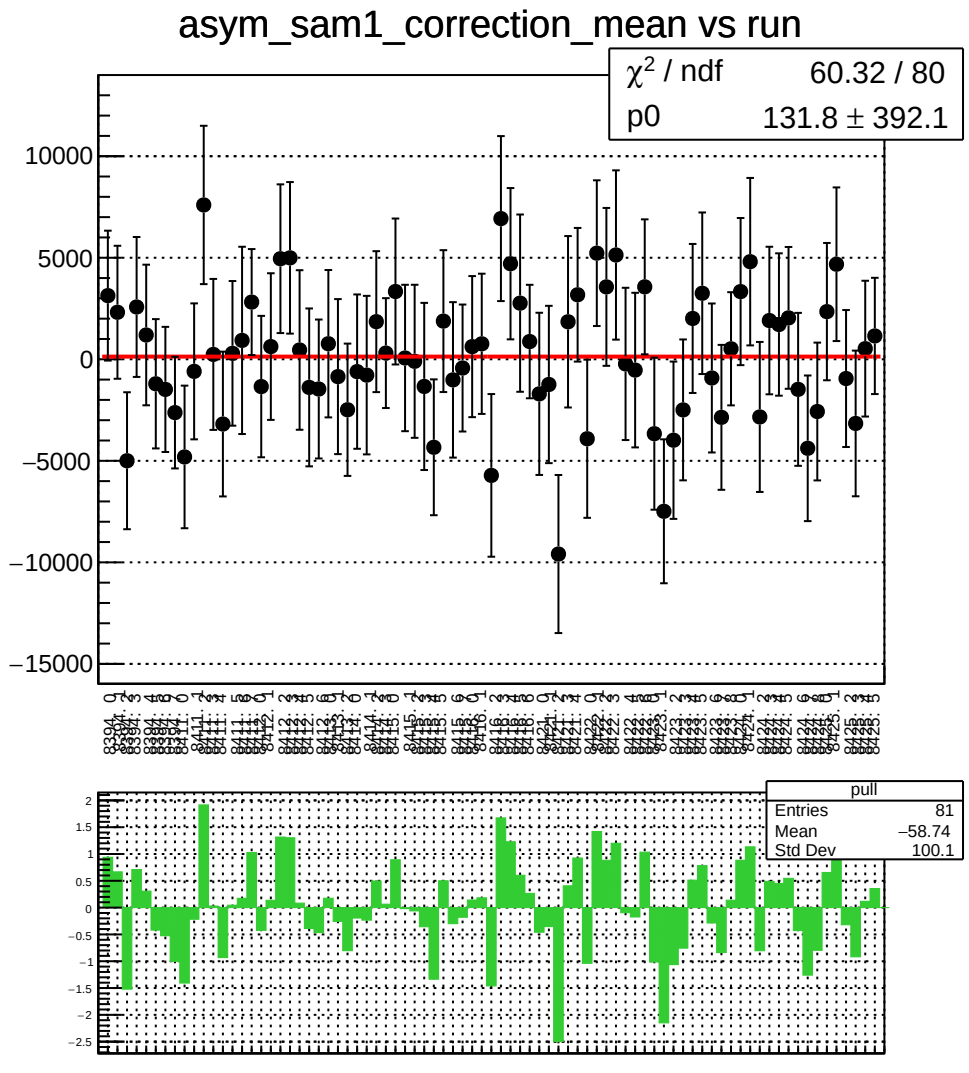

pull1D
Entries 81
Mean 0.9703
Std Dev 1.554
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

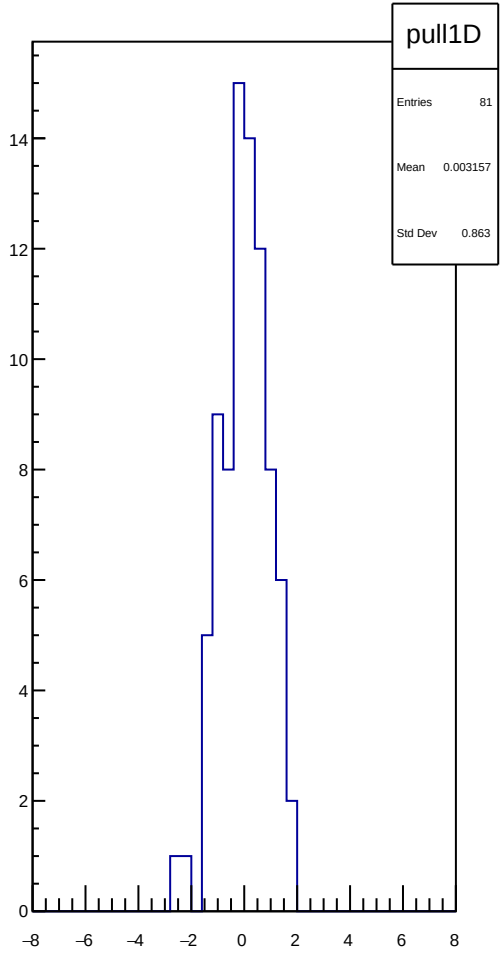

yield_sam8_rms vs run
χ² / ndf 3.094e+04 / 80
p0 0.006778 ± 5.42e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

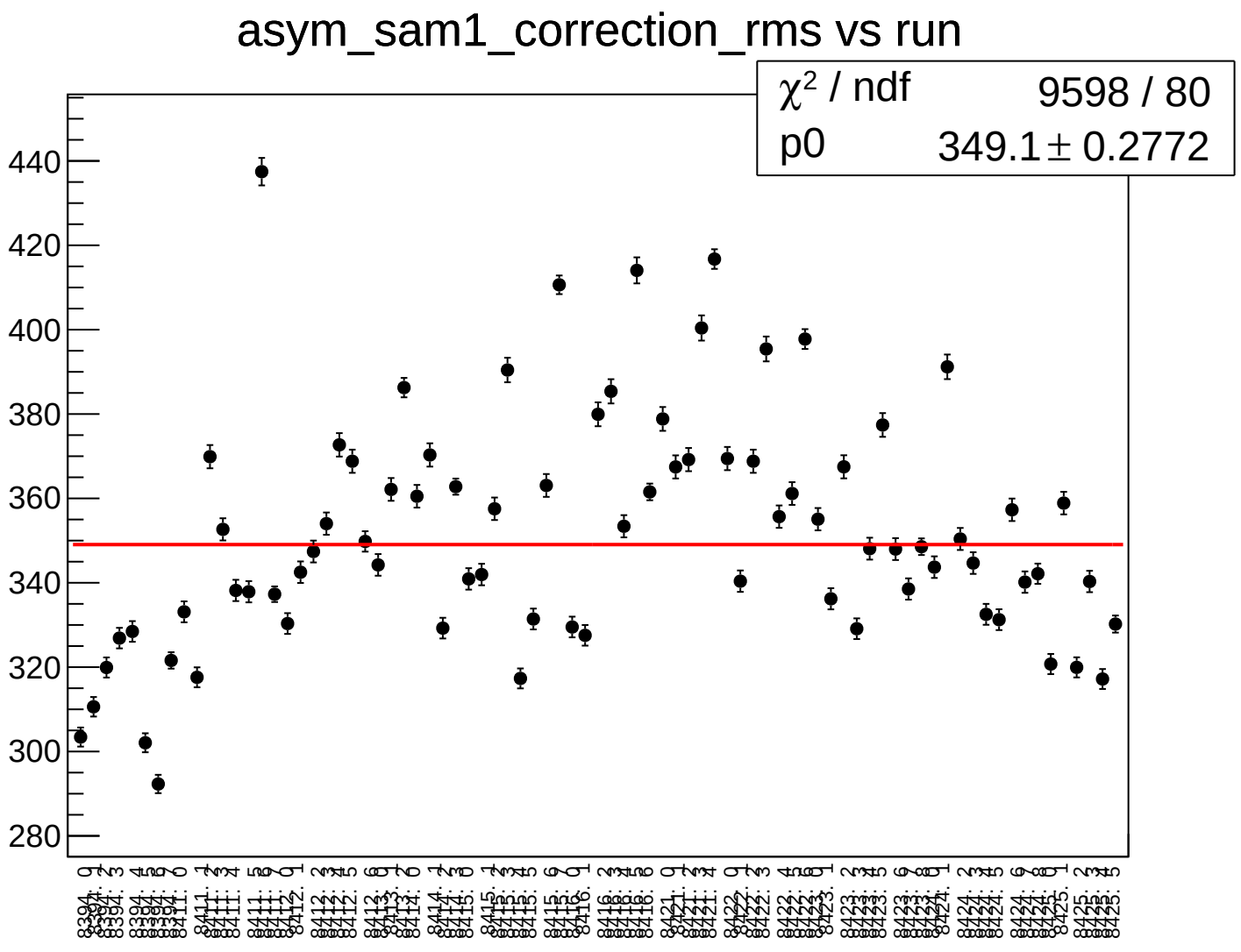

reg_asym_sam1_mean vs run
χ² / ndf 82.92 / 80
p0 153.8 ± 71.88
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 429.5
Std Dev 398.2
3
2
1
0
−1
−2

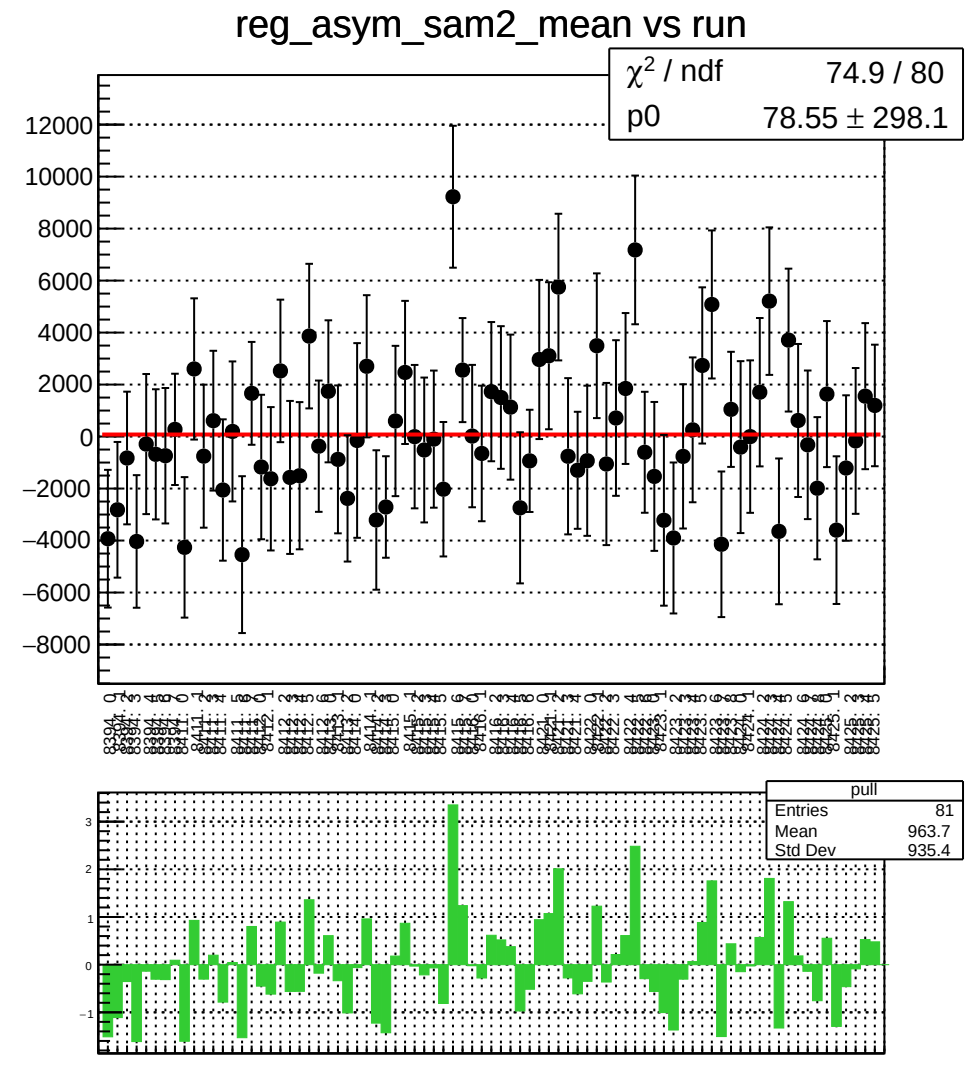

pull1D
Entries 81
Mean 0.006268
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

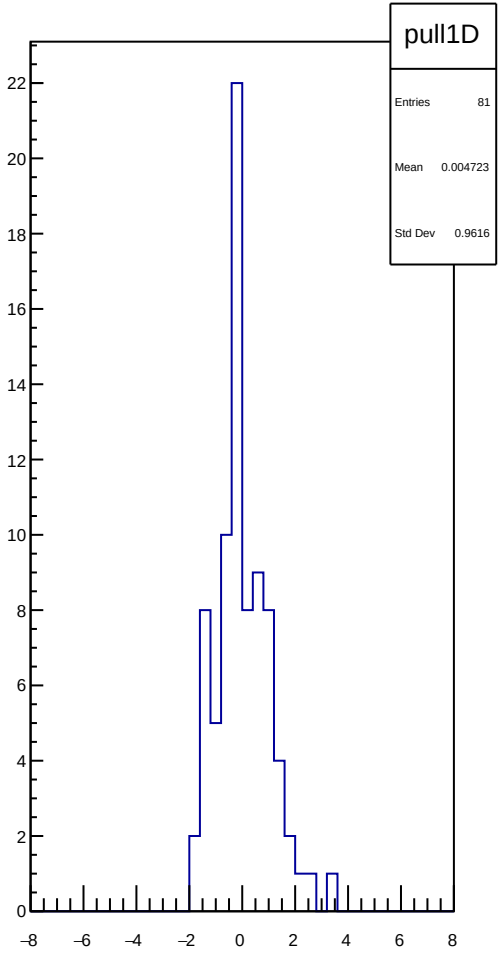

reg_asym_sam1_rms vs run
χ² / ndf 653.8 / 80
p0 64.17 ± 0.05082
68
67
66
65
64
63
62
61
60

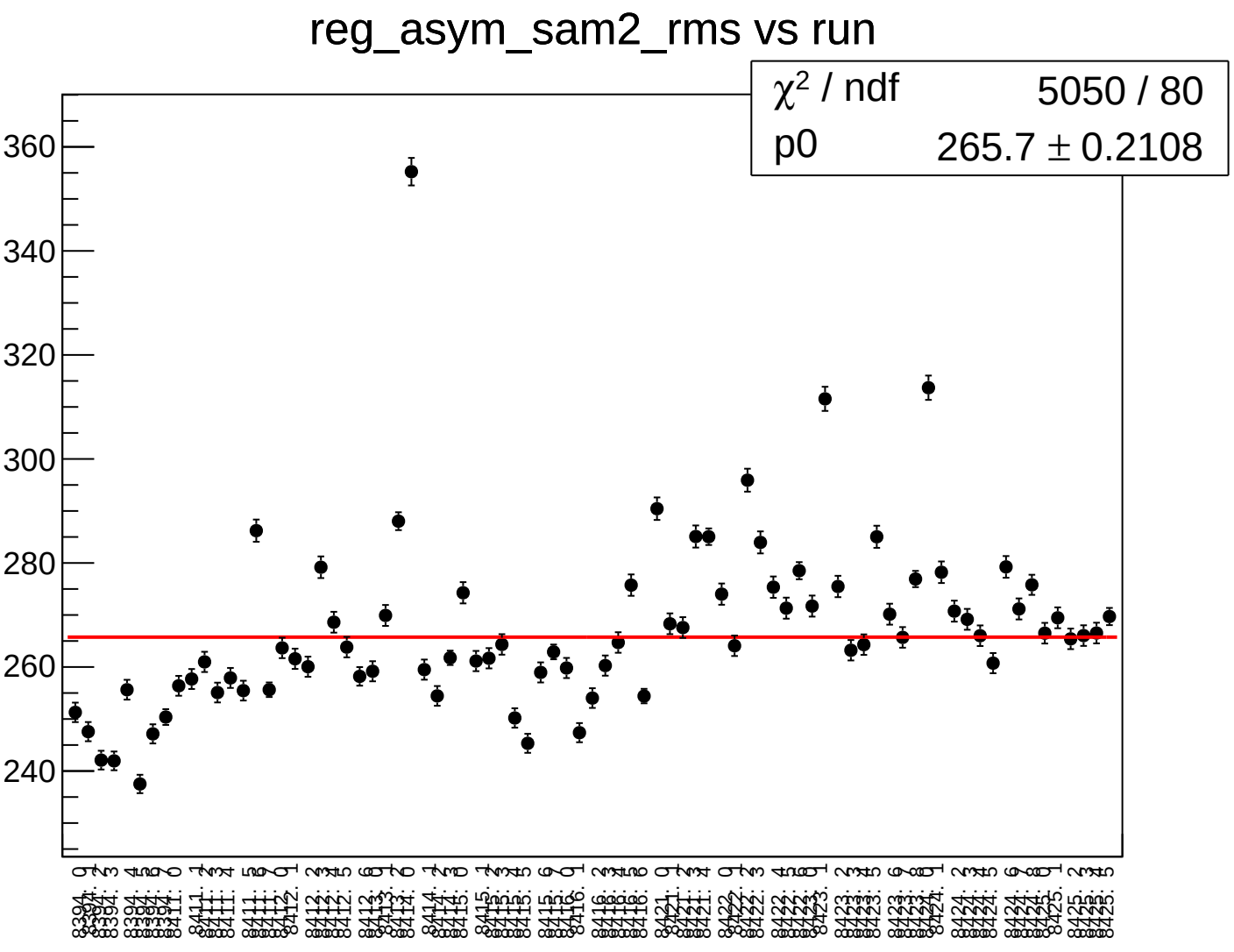

asym_sam1_correction_mean vs run
χ^2 / ndf 60.32 / 80
p0 131.8 ± 392.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −58.74
Std Dev 100.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

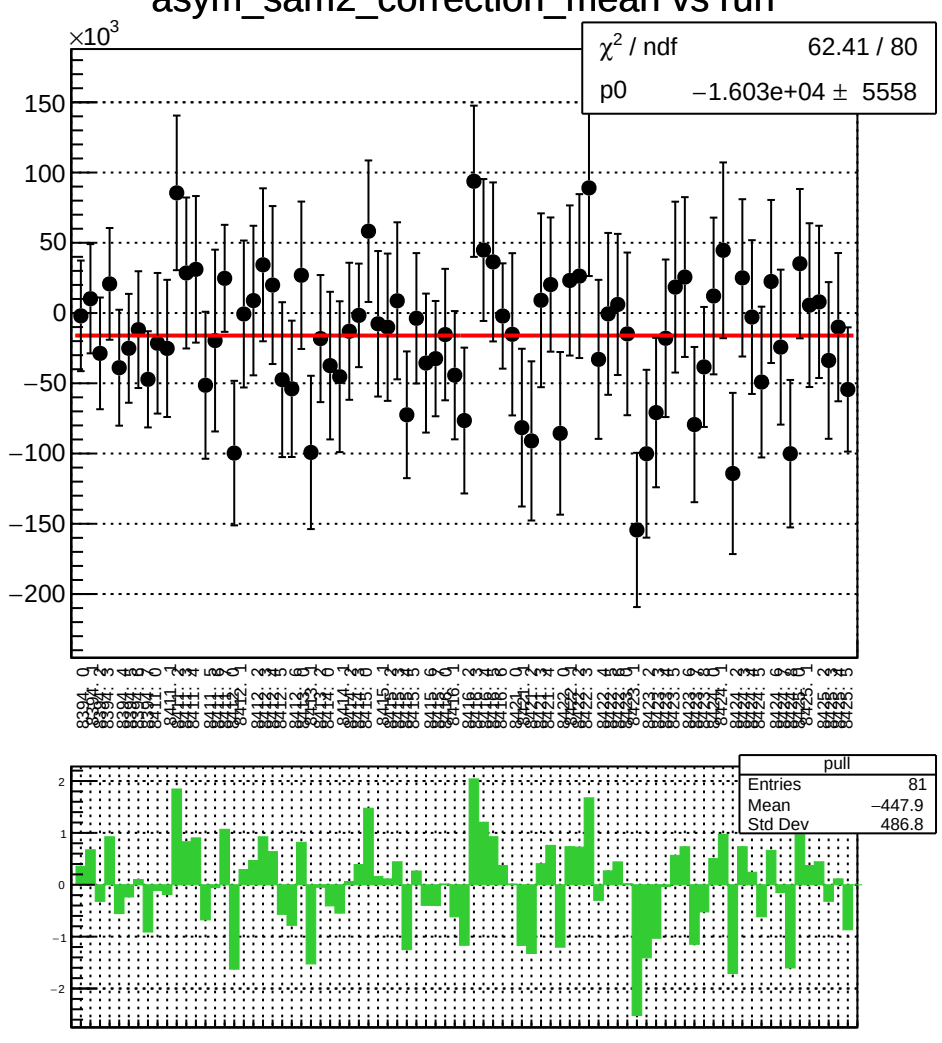

pull1D
Entries 81
Mean 0.003157
Std Dev 0.863
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

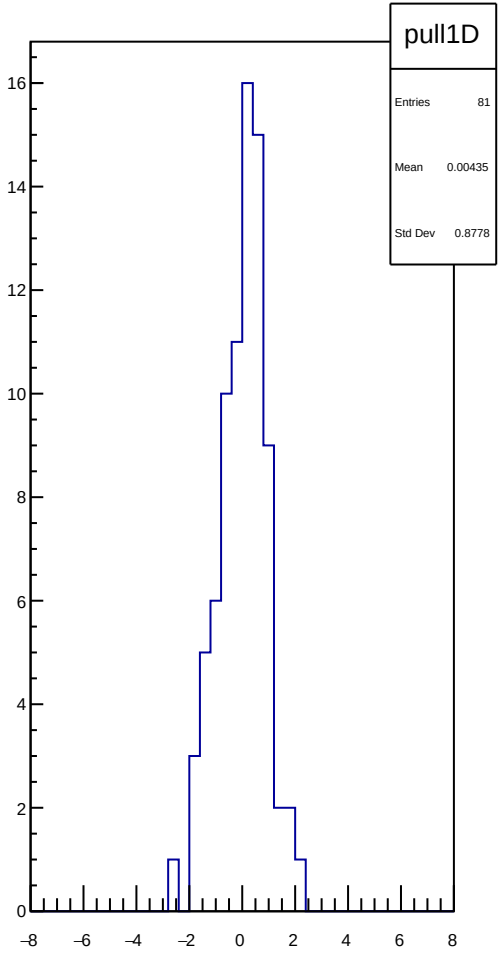

asym_sam1_correction_rms vs run
χ² / ndf 9598 / 80
p0 349.1 ± 0.2772
440
420
400
380
360
340
320
300
280

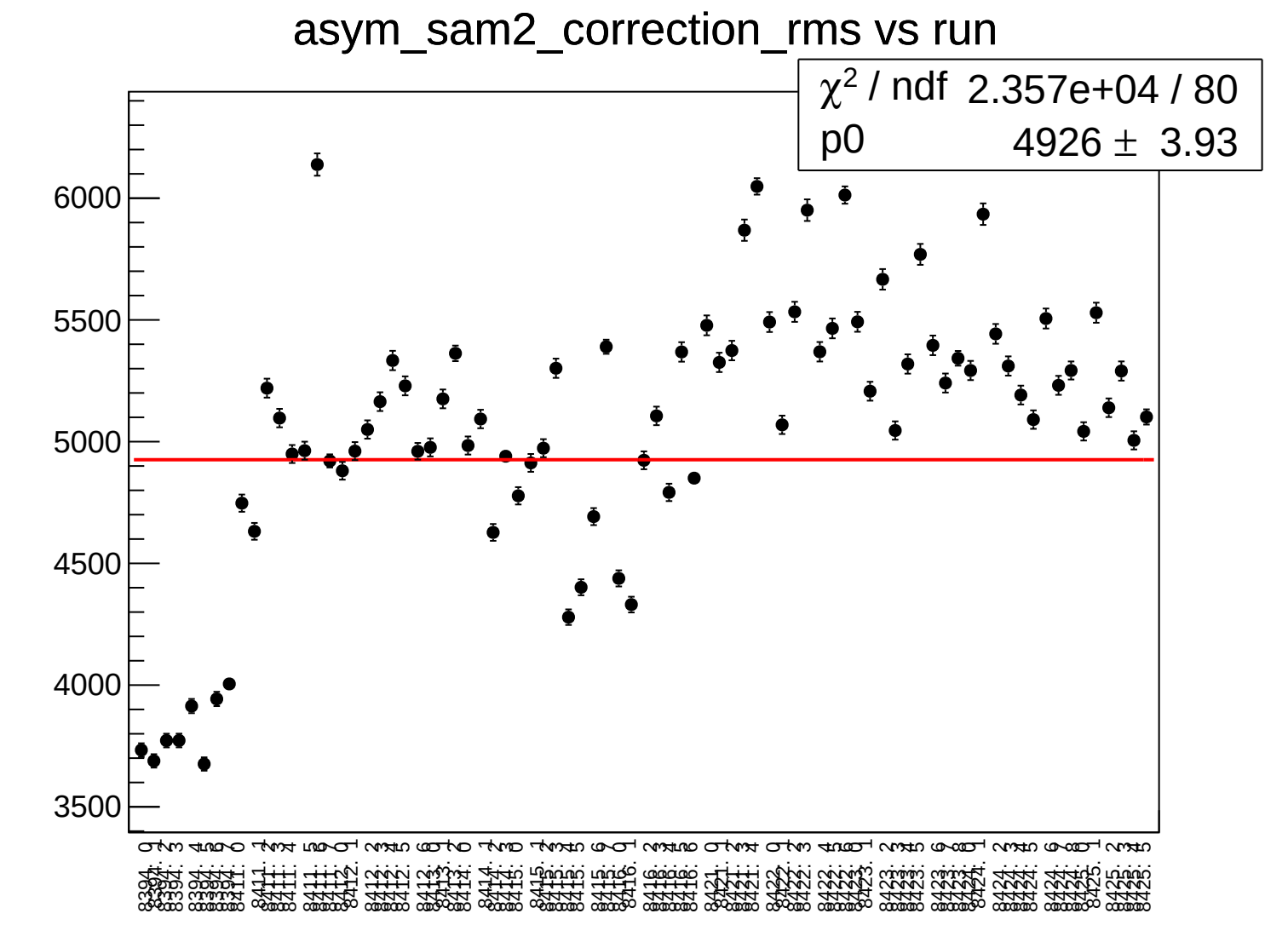

reg_asym_sam2_mean vs run
χ² / ndf 74.9 / 80
p0 78.55 ± 298.1
pull
Entries 81
Mean 963.7
Std Dev 935.4

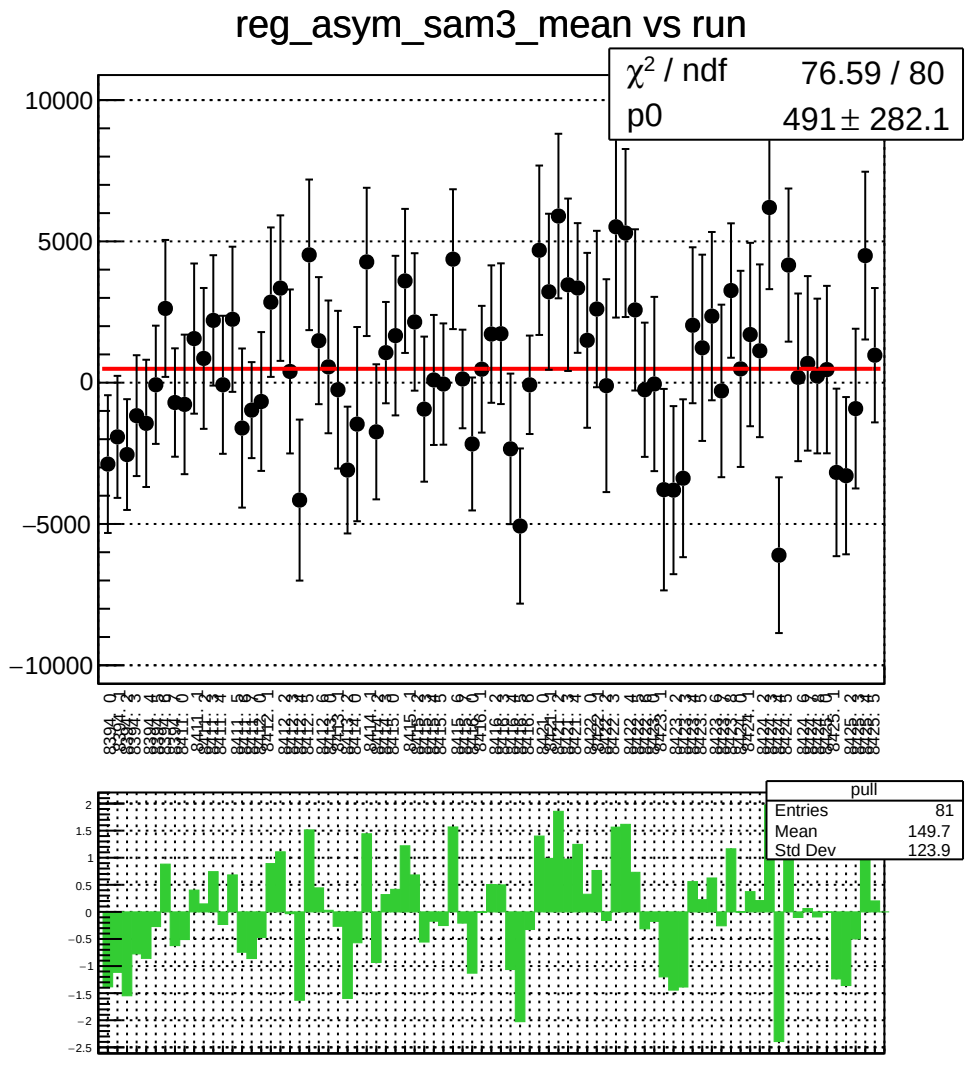

pull1D
Entries 81
Mean 0.004723
Std Dev 0.9616

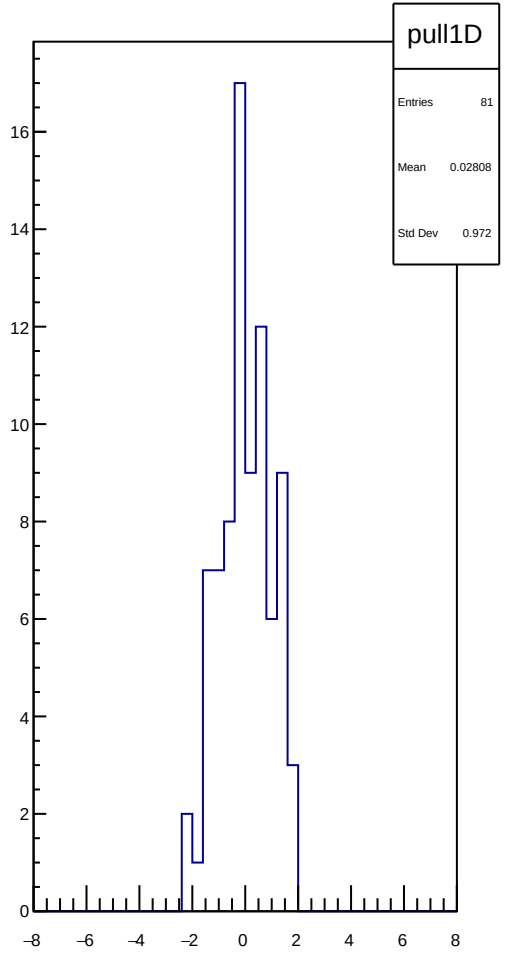

reg_asym_sam2_rms vs run
χ² / ndf 5050 / 80
p0 265.7 ± 0.2108
360
340
320
300
280
260
240

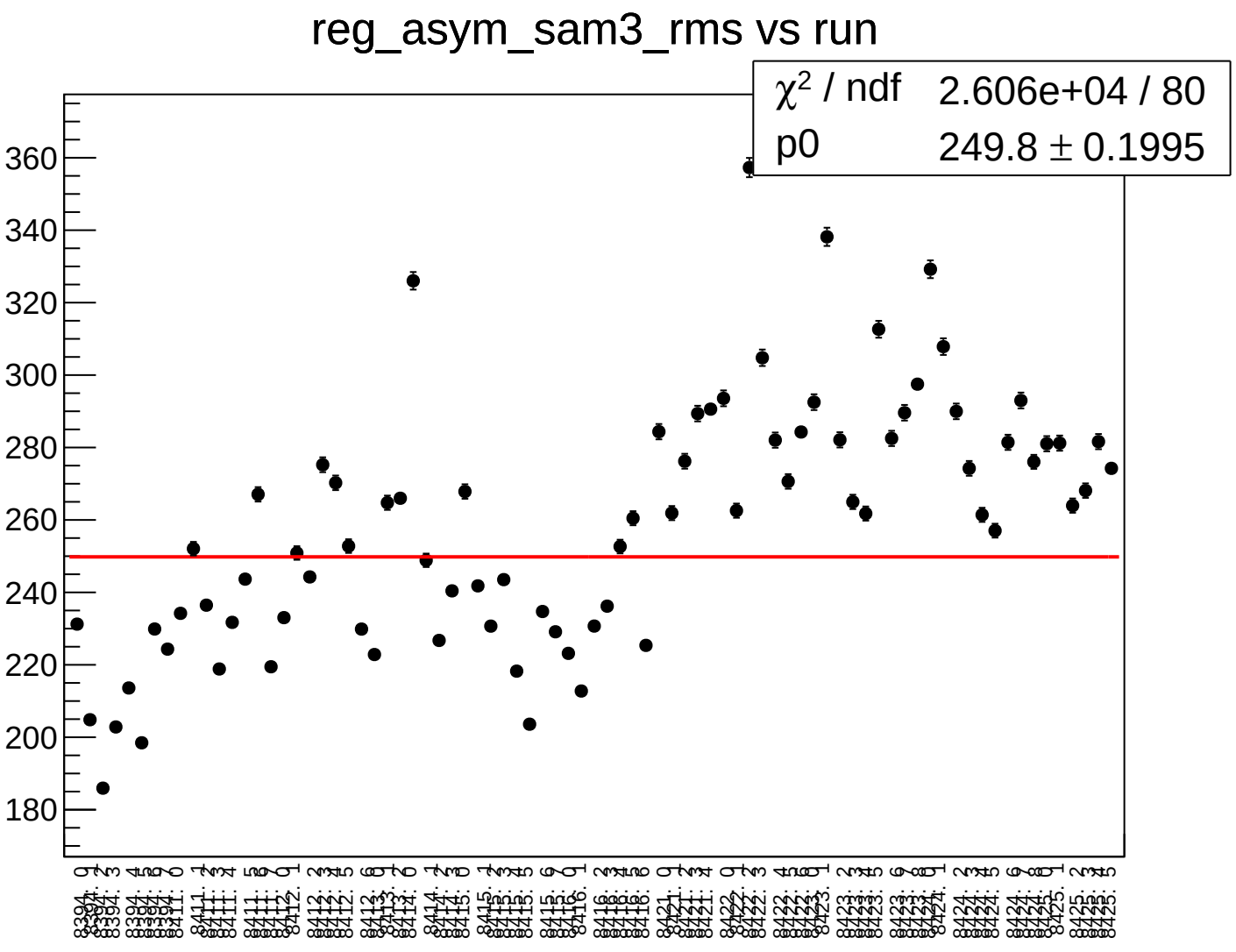

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 62.41 / 80
p0 −1.603e+04 ± 5558
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −447.9
Std Dev 486.8
2
1
0
−1
−2

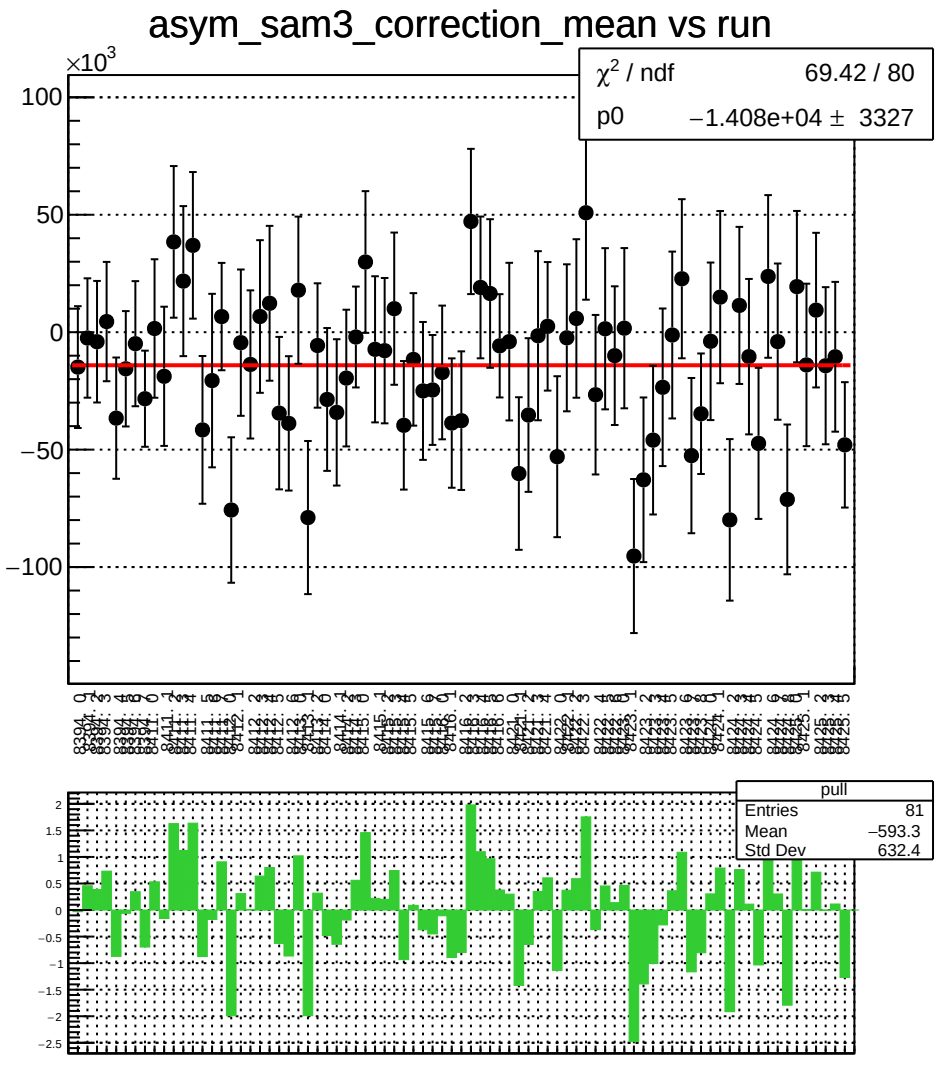

pull1D
Entries 81
Mean 0.00435
Std Dev 0.8778
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

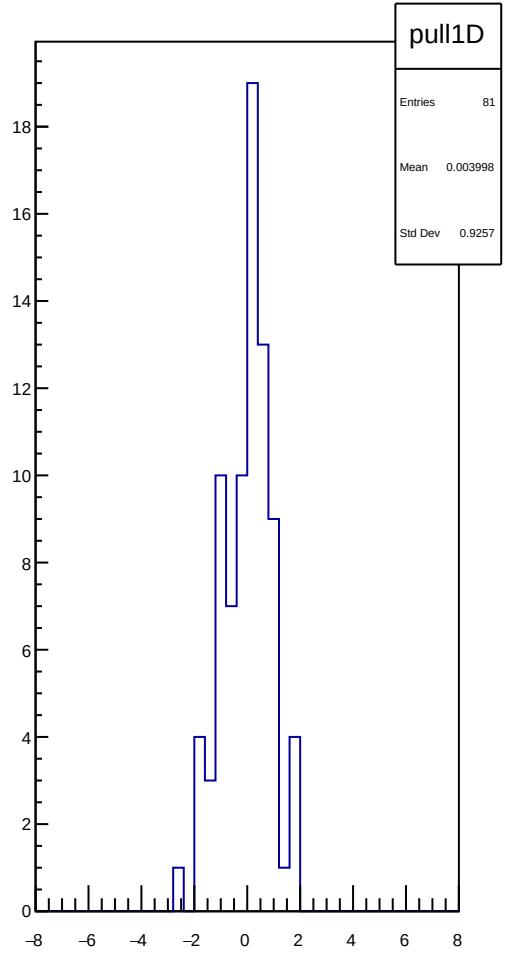

asym_sam2_correction_rms vs run
χ² / ndf 2.357e+04 / 80
p0 4926 ± 3.93
6000
5500
5000
4500
4000
3500

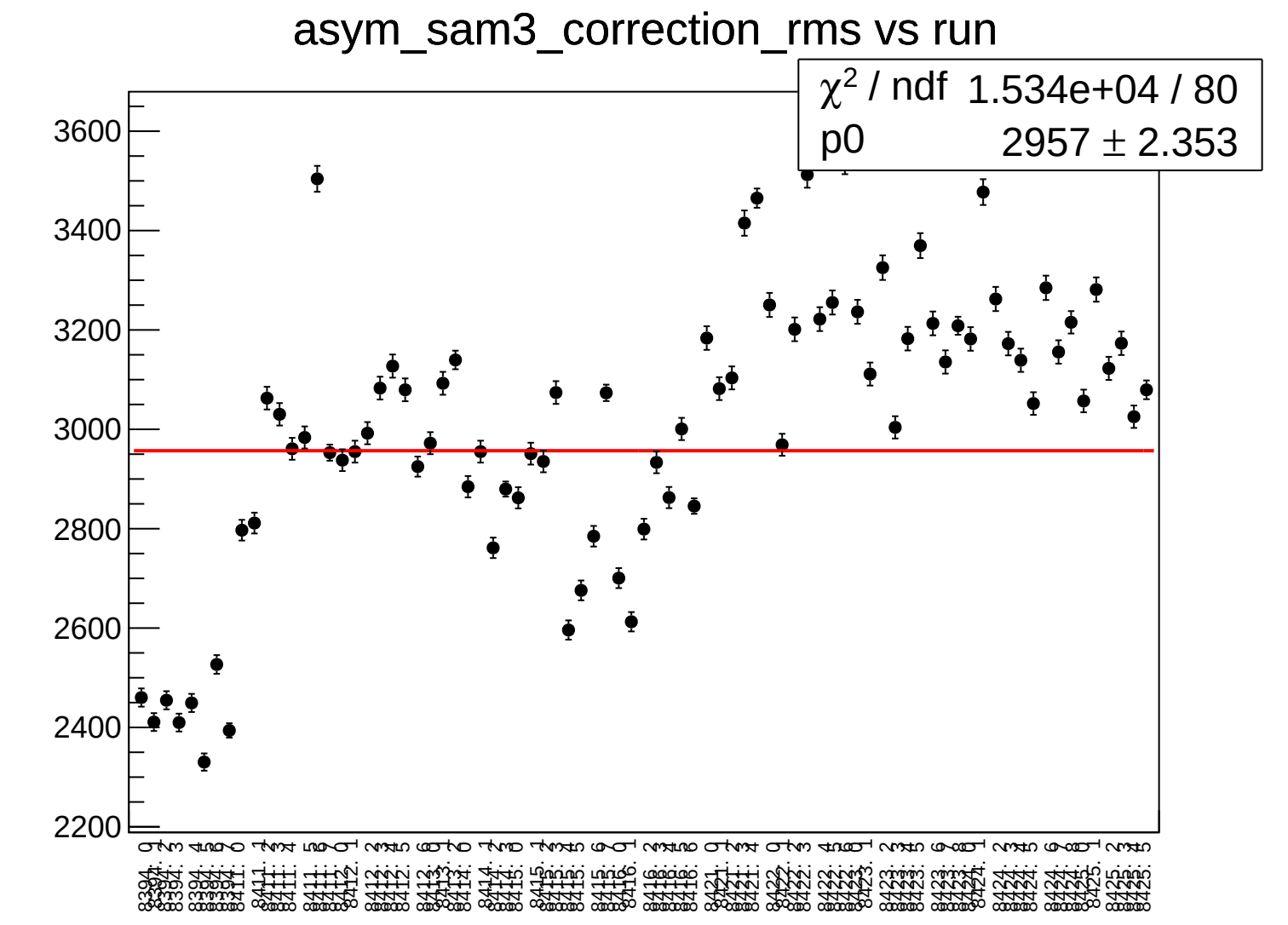

reg_asym_sam3_mean vs run
χ² / ndf 76.59 / 80
p0 491 ± 282.1
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 149.7
Std Dev 123.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

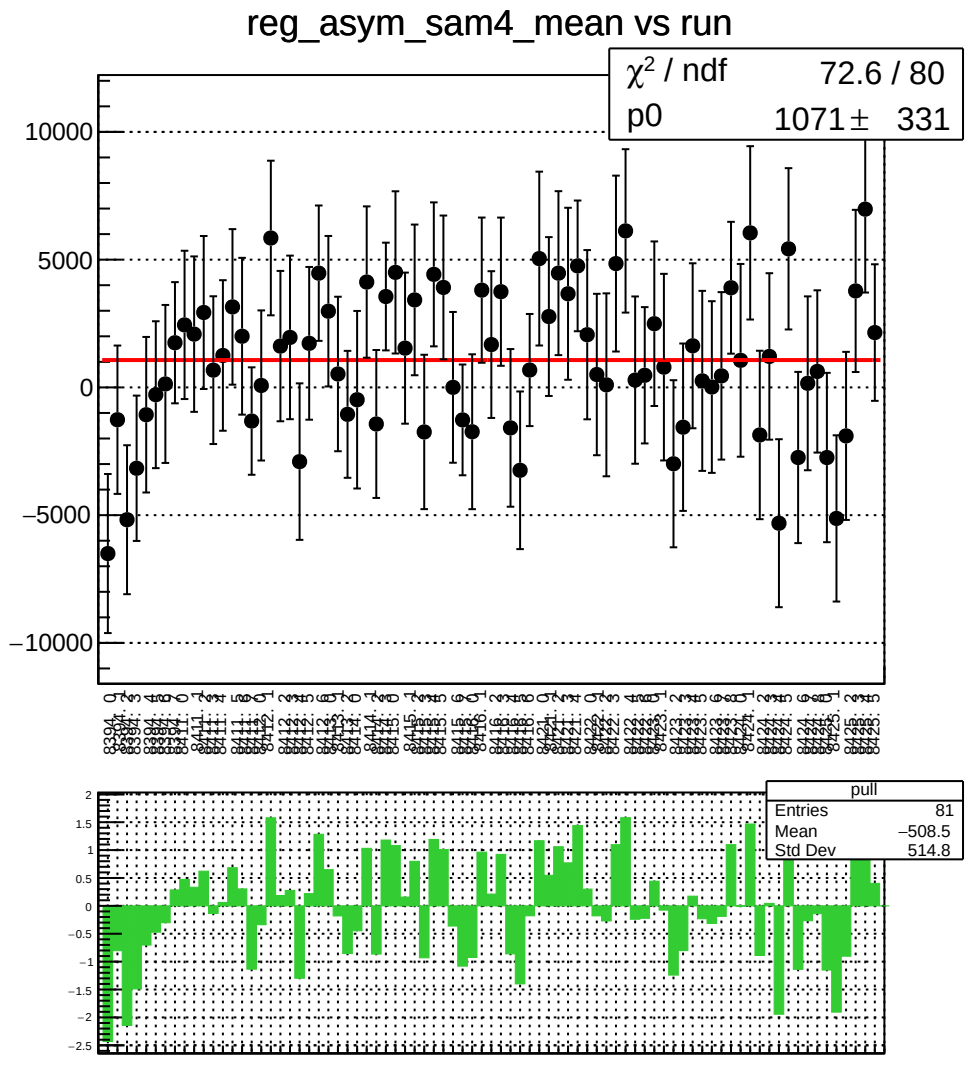

pull1D
Entries 81
Mean 0.02808
Std Dev 0.972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

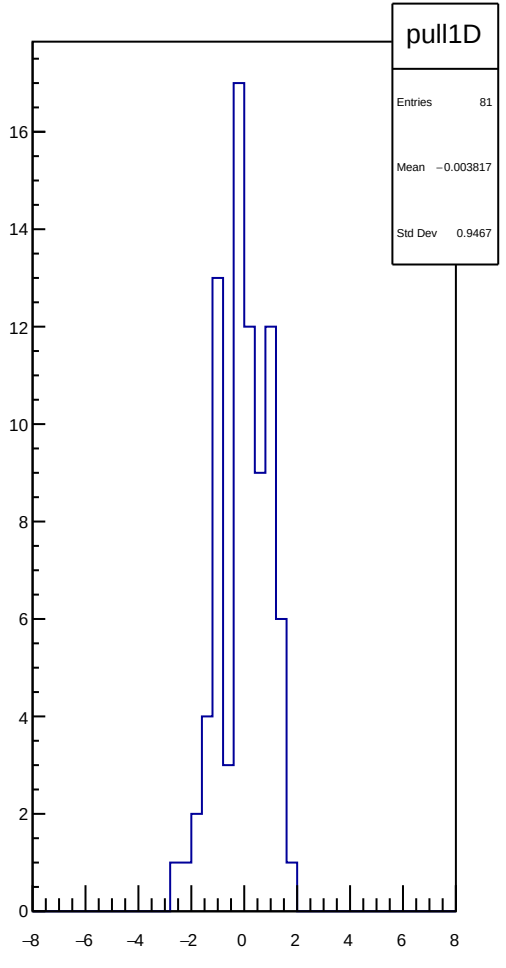

reg_asym_sam3_rms vs run
χ² / ndf 2.606e+04 / 80
p0 249.8 ± 0.1995
360
340
320
300
280
260
240
220
200
180

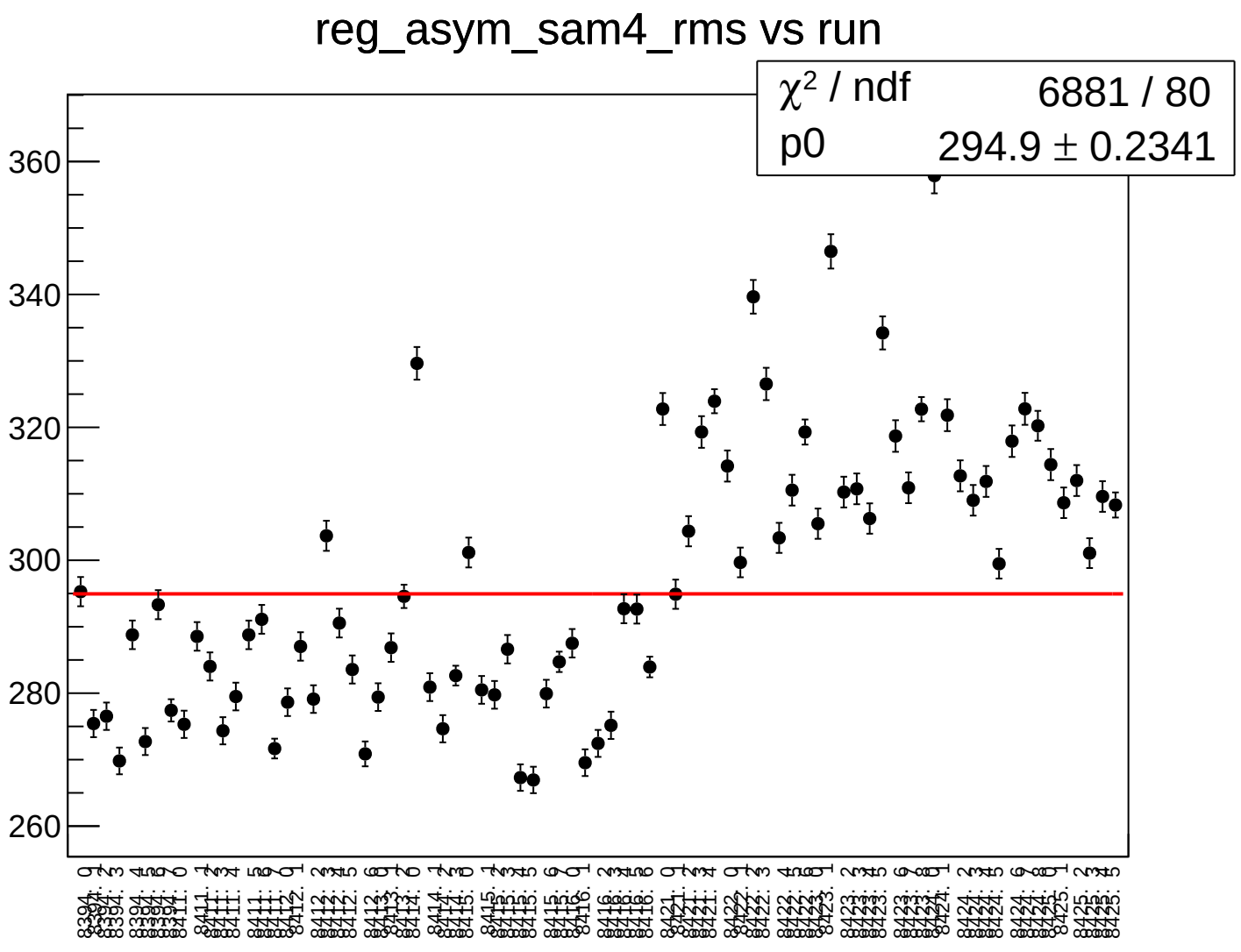

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 69.42 / 80
p0 −1.408e+04 ± 3327
100
50
0
−50
−100
pull
Entries 81
Mean −593.3
Std Dev 632.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

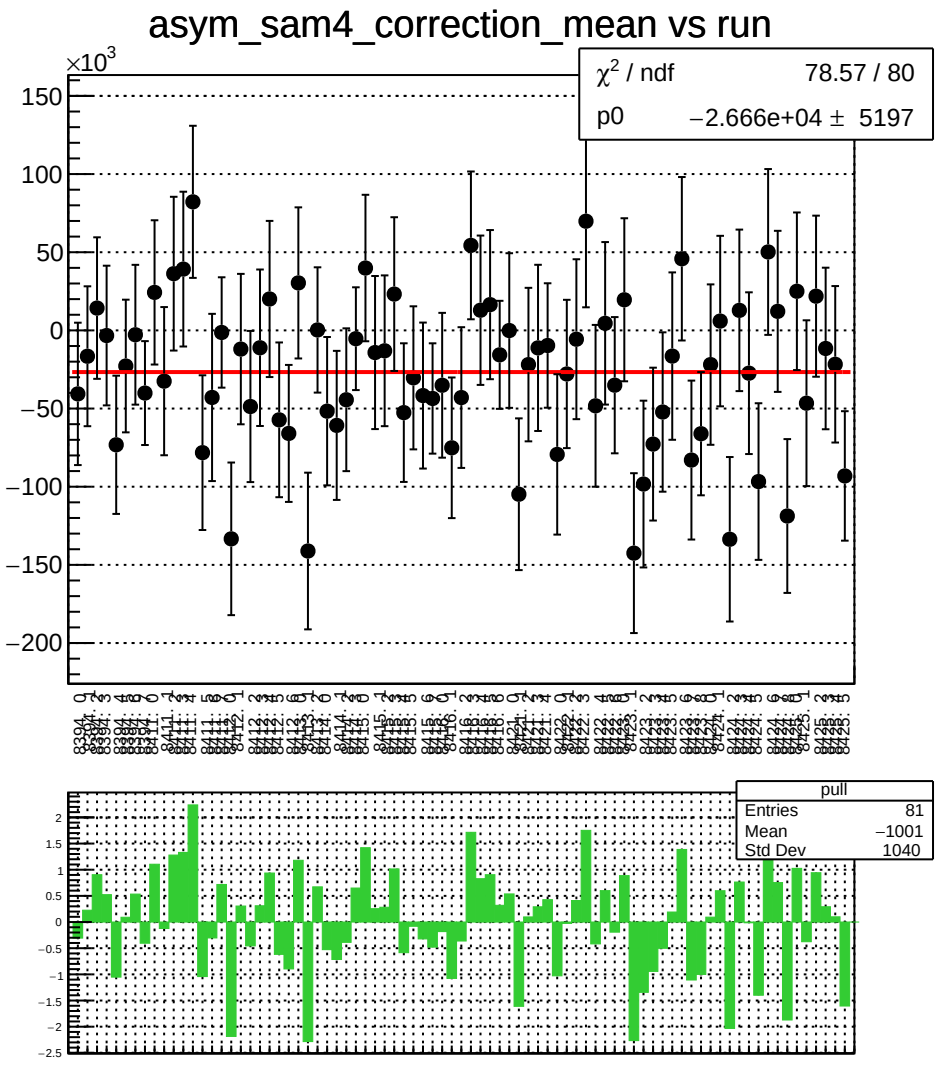

pull1D
Entries 81
Mean 0.003998
Std Dev 0.9257
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

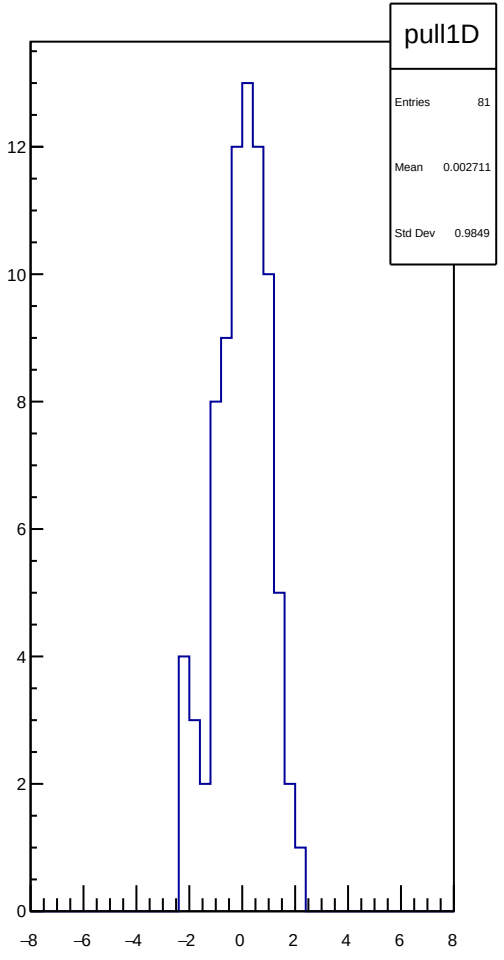

asym_sam3_correction_rms vs run
χ² / ndf 1.534e+04 / 80
p0 2957 ± 2.353
3600
3400
3200
3000
2800
2600
2400
2200

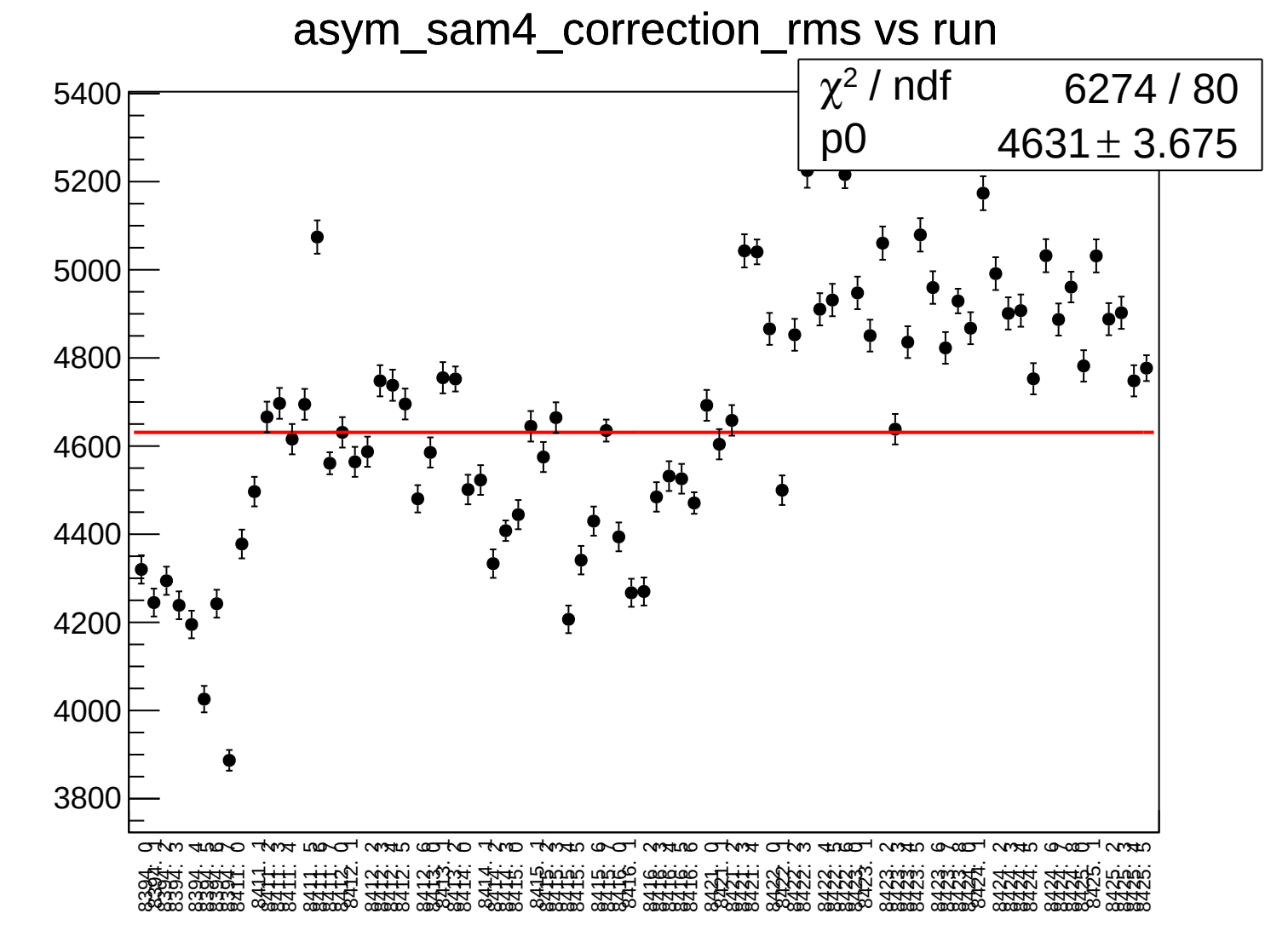

reg_asym_sam4_mean vs run
χ² / ndf 72.6 / 80
p0 1071 ± 331
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −508.5
Std Dev 514.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

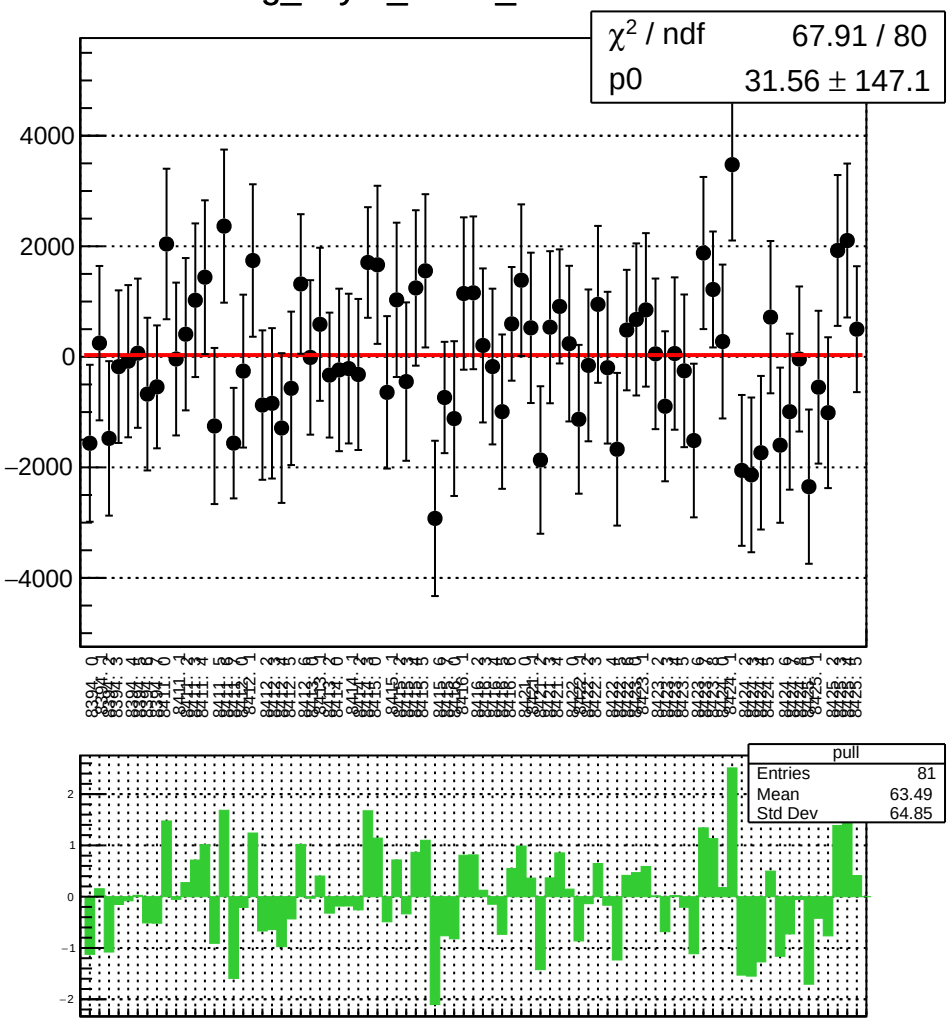

pull1D
Entries 81
Mean −0.003817
Std Dev 0.9467
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

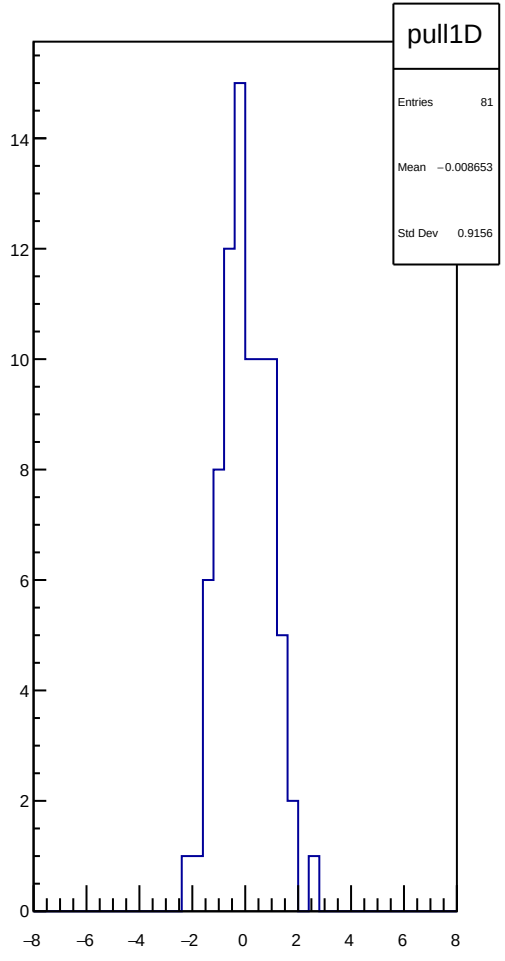

reg_asym_sam4_rms vs run
χ² / ndf 6881 / 80
p0 294.9 ± 0.2341
360
340
320
300
280
260

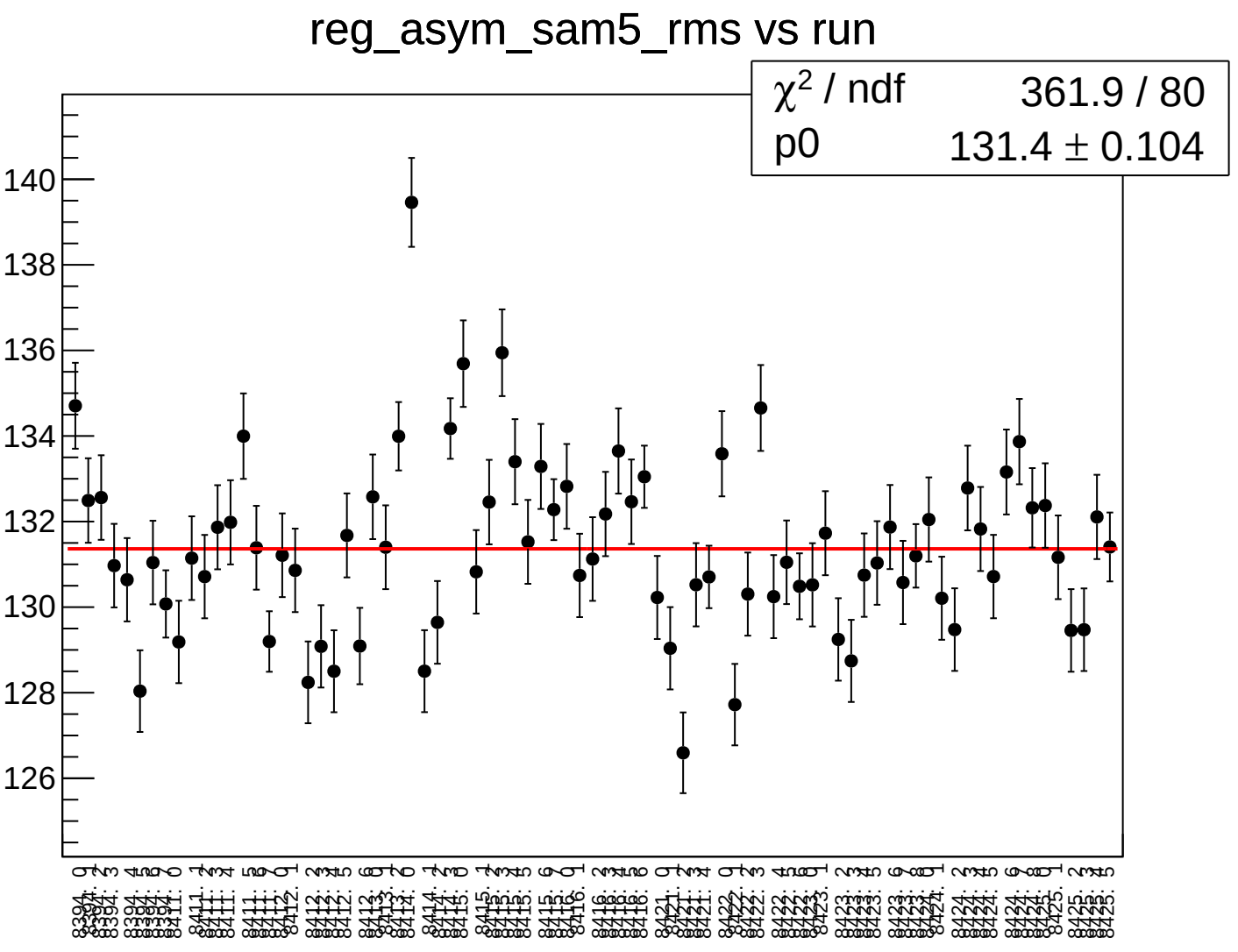

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 78.57 / 80
p0 −2.666e+04 ± 5197
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −1001
Std Dev 1040
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

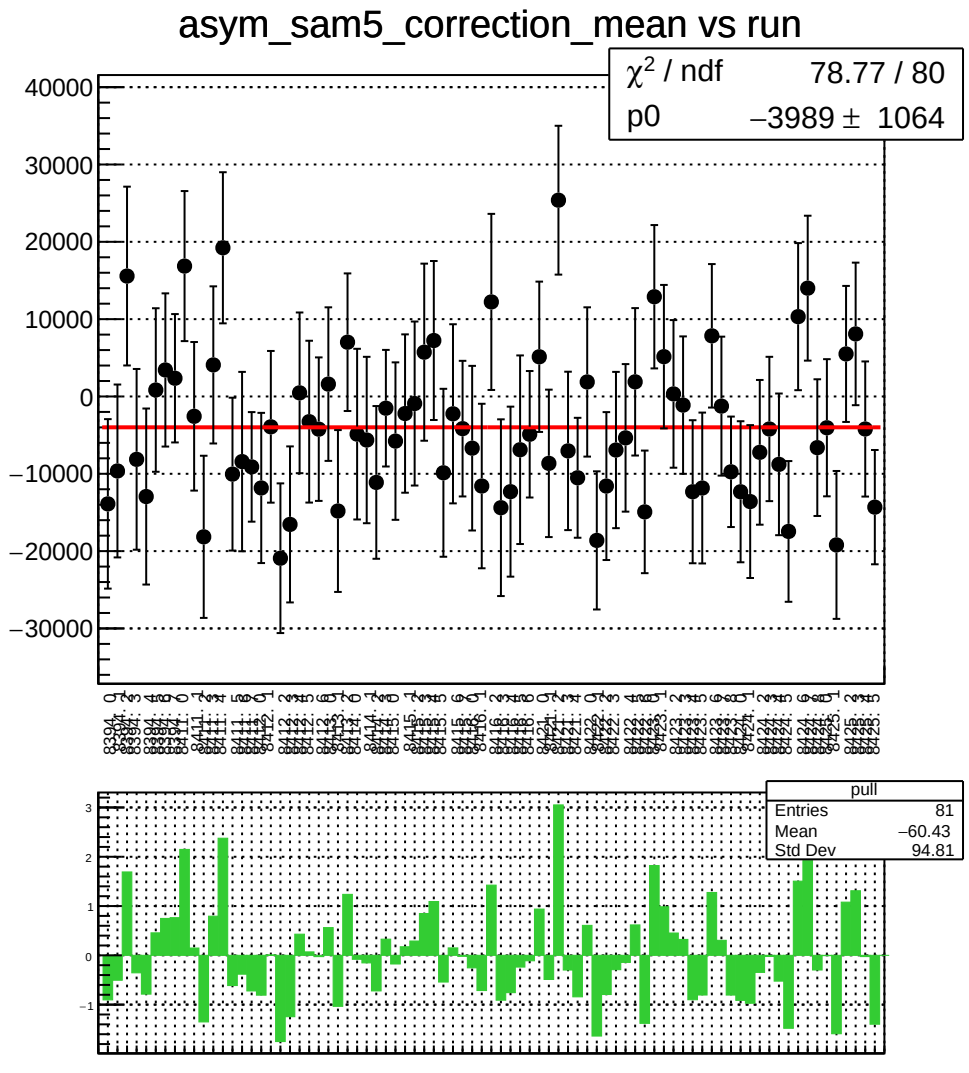

pull1D
Entries 81
Mean 0.002711
Std Dev 0.9849
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

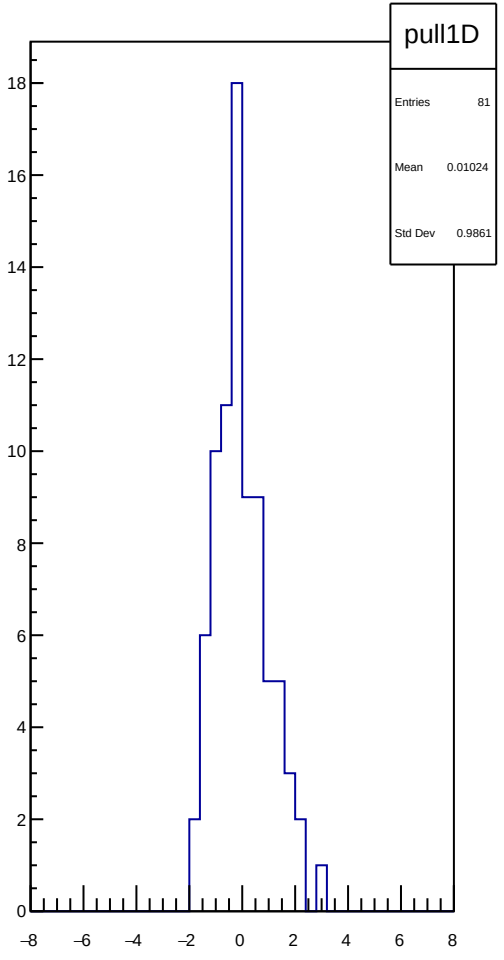

asym_sam4_correction_rms vs run
χ² / ndf 6274 / 80
p0 4631 ± 3.675
5400
5200
5000
4800
4600
4400
4200
4000
3800

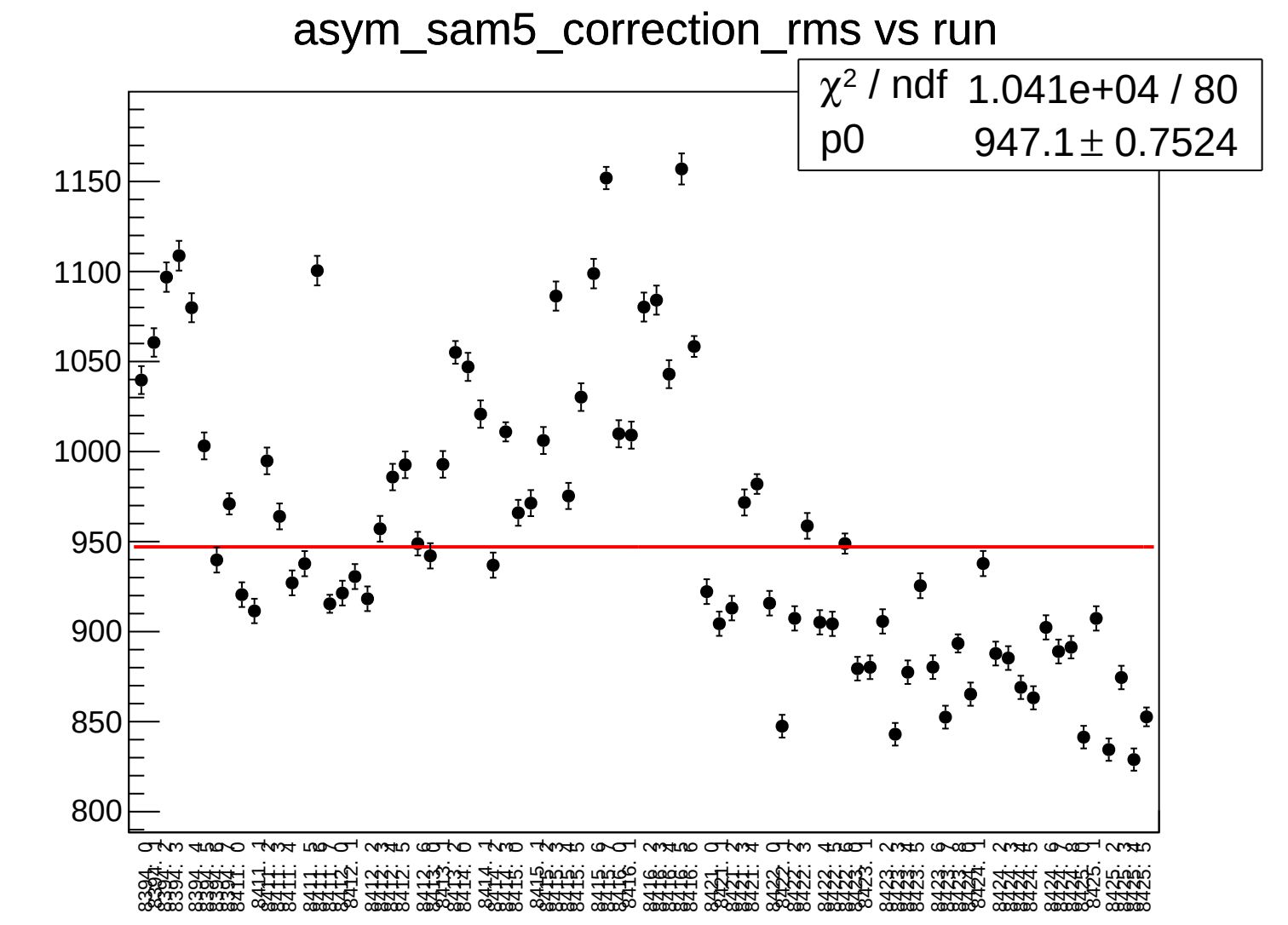

reg_asym_sam5_mean vs run
χ^2 / ndf 67.91 / 80
p0 31.56 ± 147.1
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 63.49
Std Dev 64.85
2
1
0
−1
−2

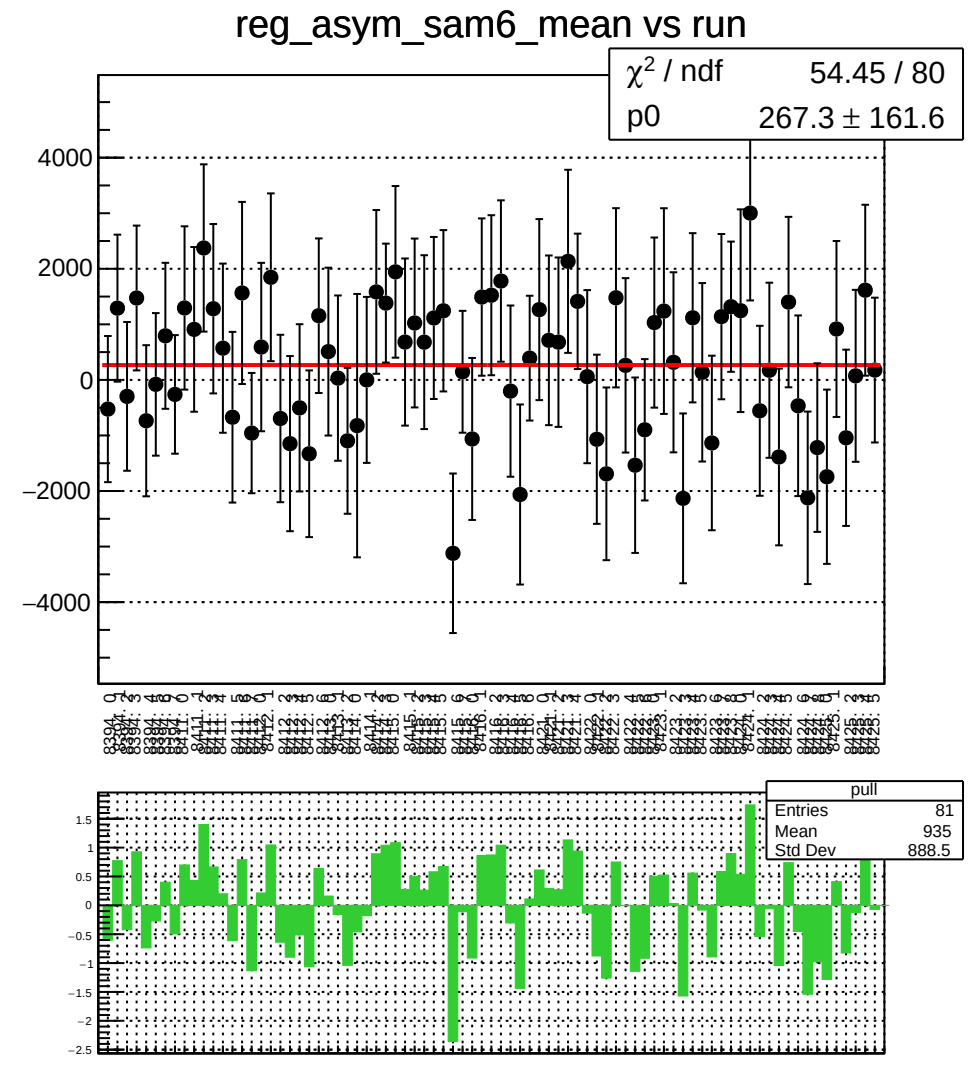

pull1D
Entries 81
Mean −0.008653
Std Dev 0.9156
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

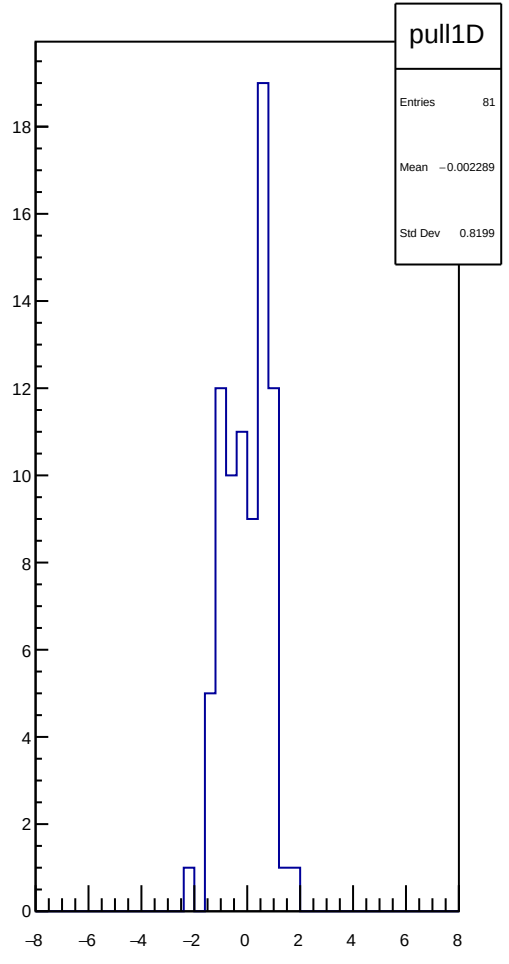

reg_asym_sam5_rms vs run
χ² / ndf 361.9 / 80
p0 131.4 ± 0.104
140
138
136
134
132
130
128
126

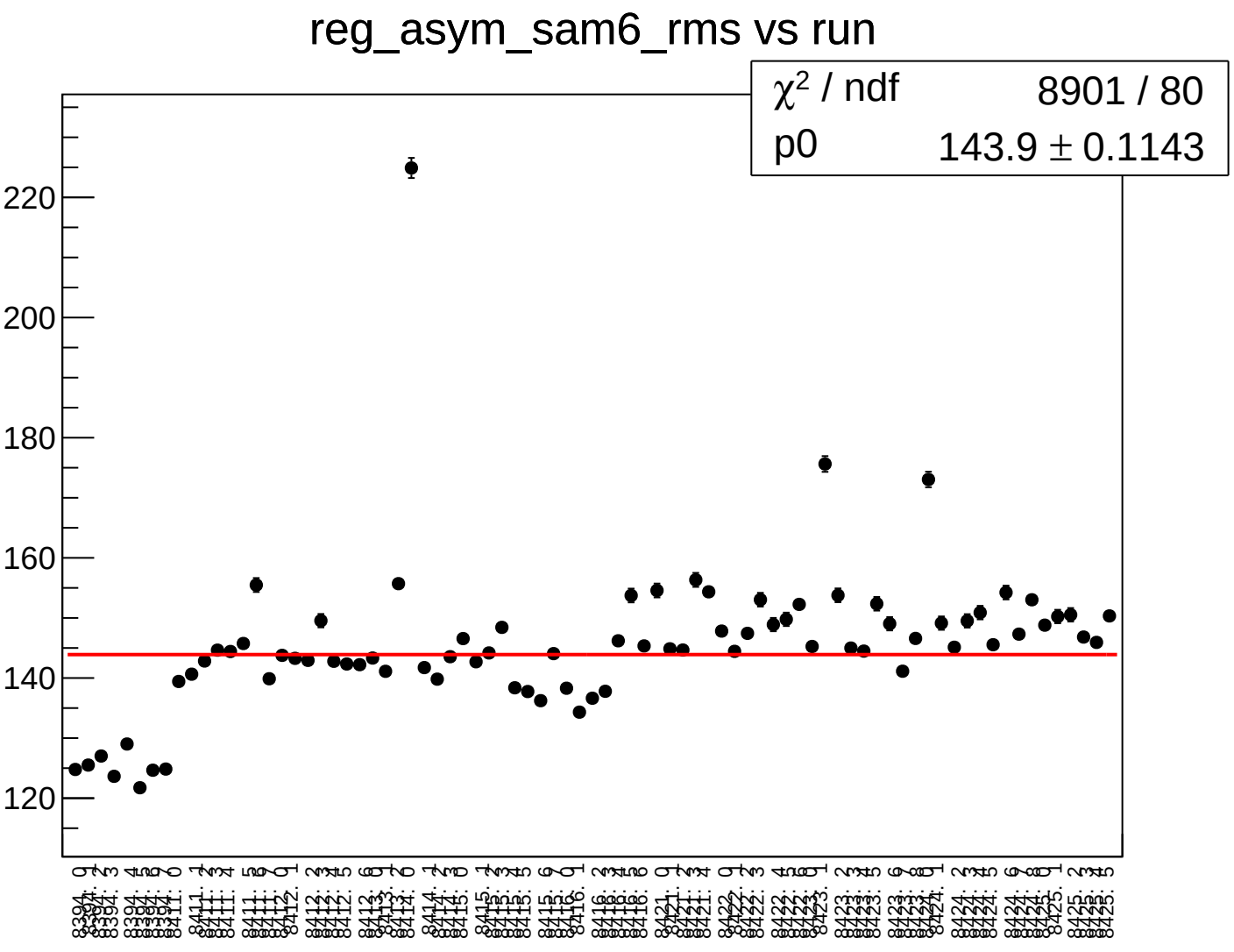

asym_sam5_correction_mean vs run
χ² / ndf 78.77 / 80
p0 −3989 ± 1064
pull
Entries 81
Mean −60.43
Std Dev 94.81

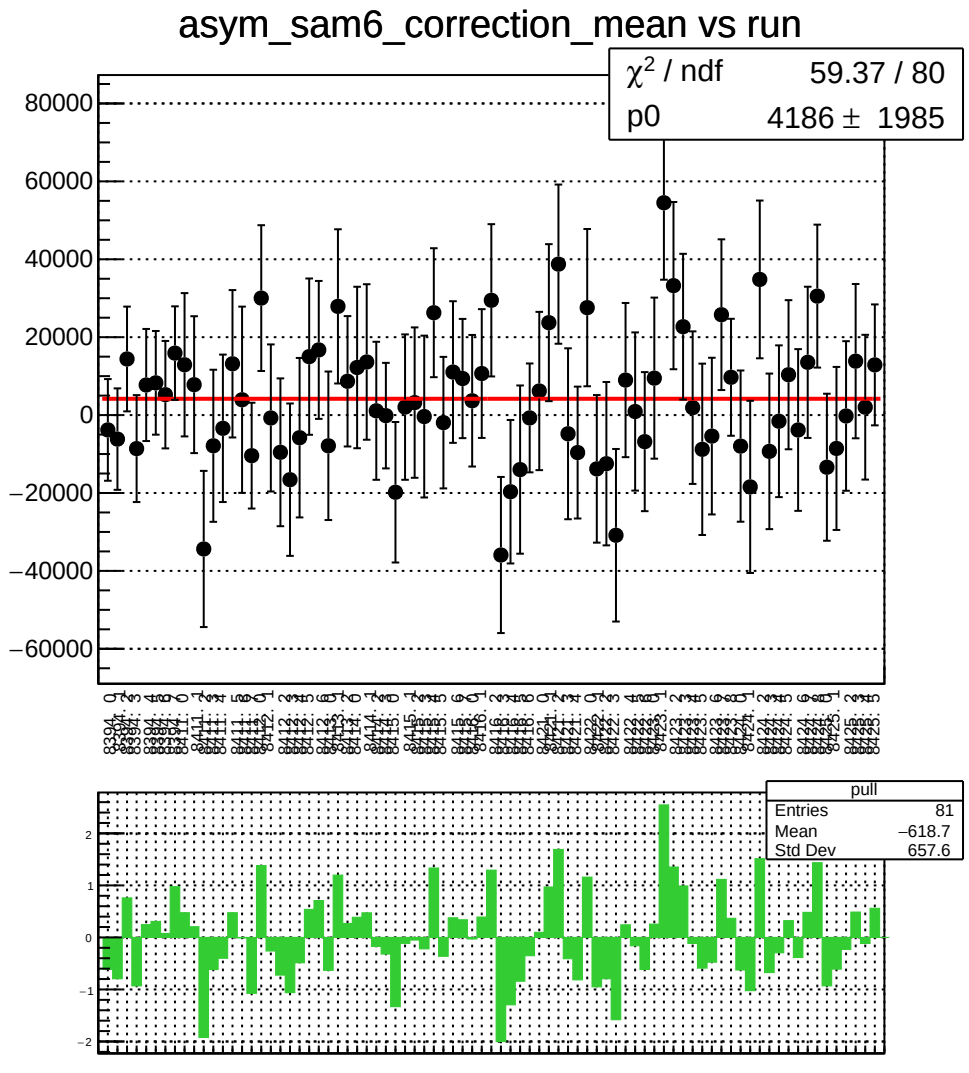

pull1D
Entries 81
Mean 0.01024
Std Dev 0.9861

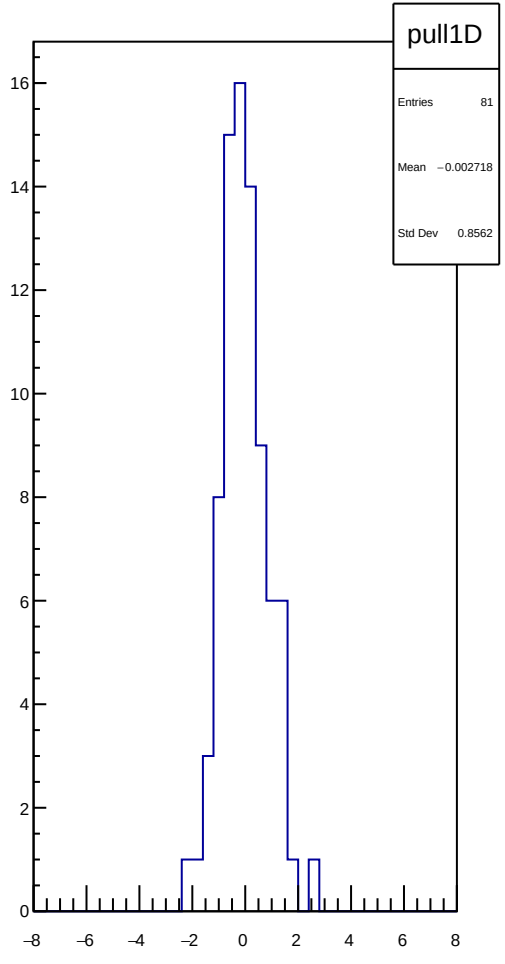

asym_sam5_correction_rms vs run
χ² / ndf 1.041e+04 / 80
p0 947.1 ± 0.7524
1150
1100
1050
1000
950
900
850
800

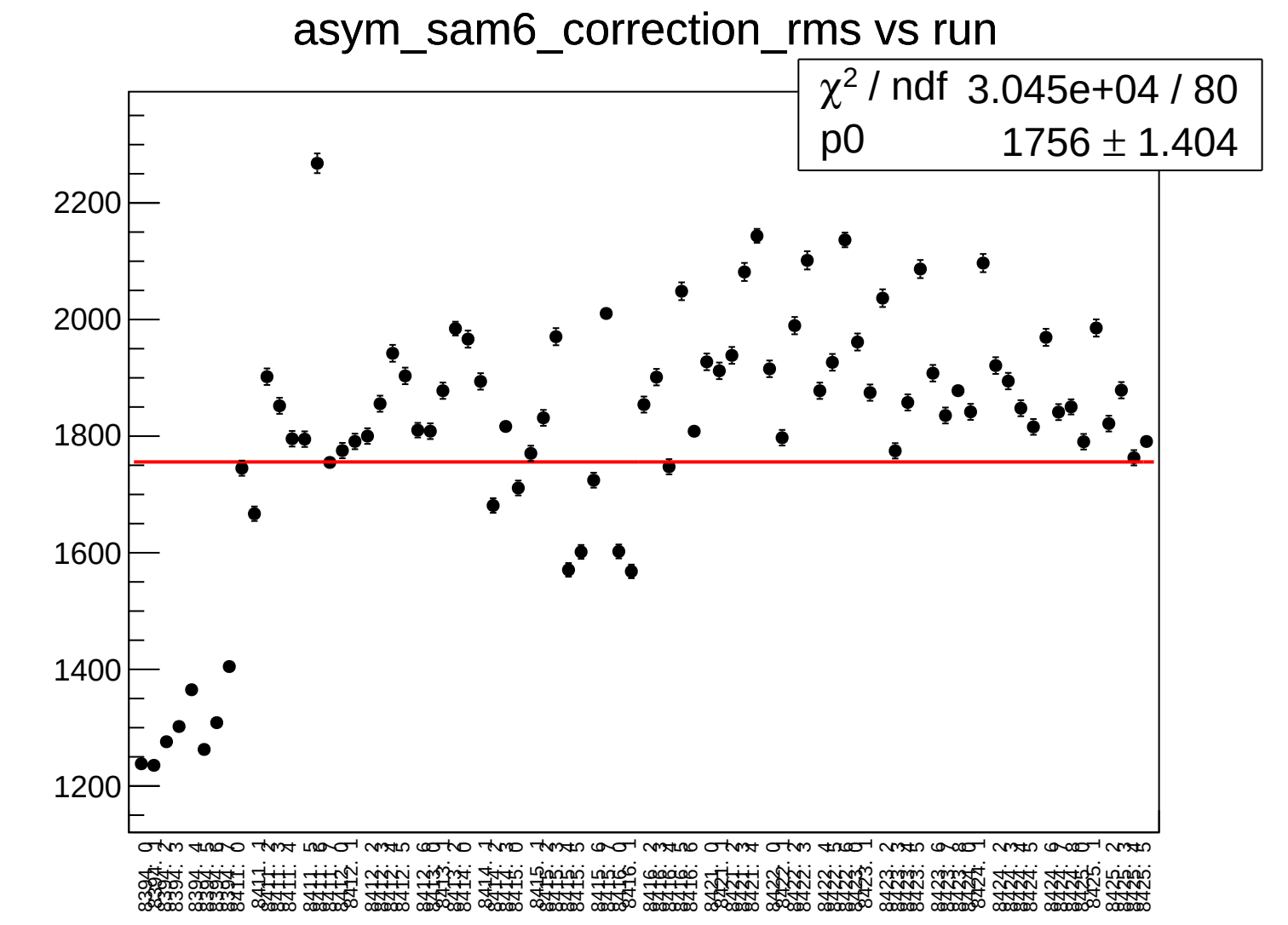

reg_asym_sam6_mean vs run
χ^2 / ndf 54.45 / 80
p0 267.3 ± 161.6
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 935
Std Dev 888.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

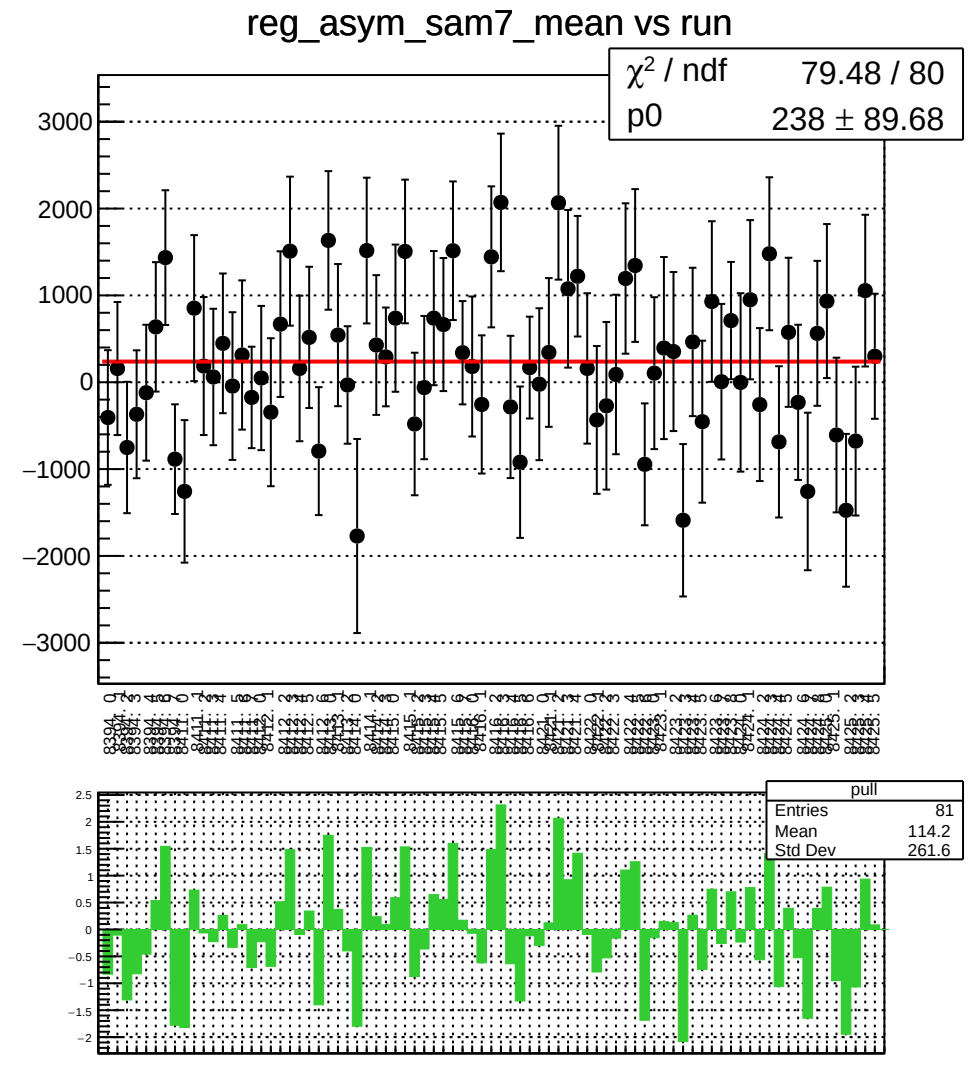

pull1D
Entries 81
Mean −0.002289
Std Dev 0.8199
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

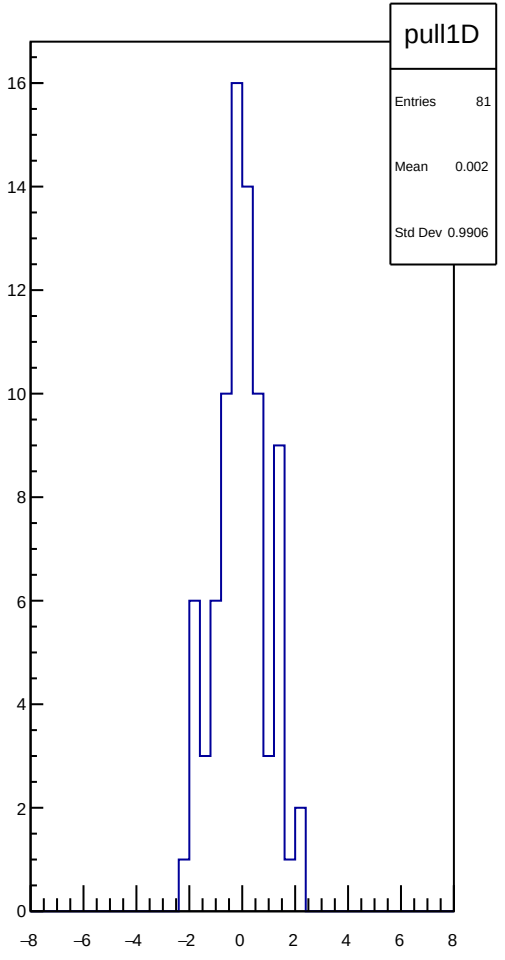

reg_asym_sam6_rms vs run
χ² / ndf 8901 / 80
p0 143.9 ± 0.1143
220
200
180
160
140
120

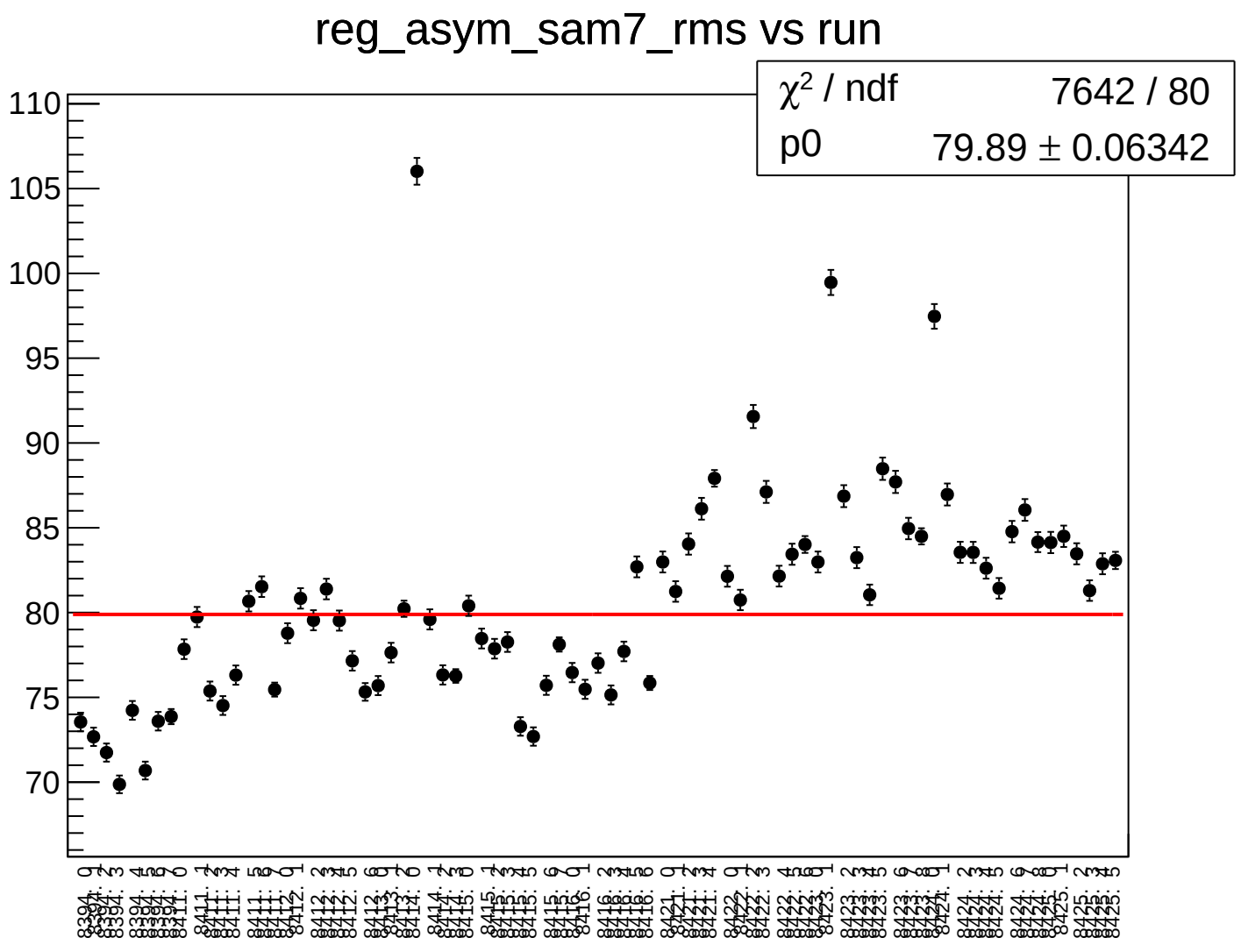

asym_sam6_correction_mean vs run
χ² / ndf 59.37 / 80
p0 4186 ± 1985
pull
Entries 81
Mean −618.7
Std Dev 657.6

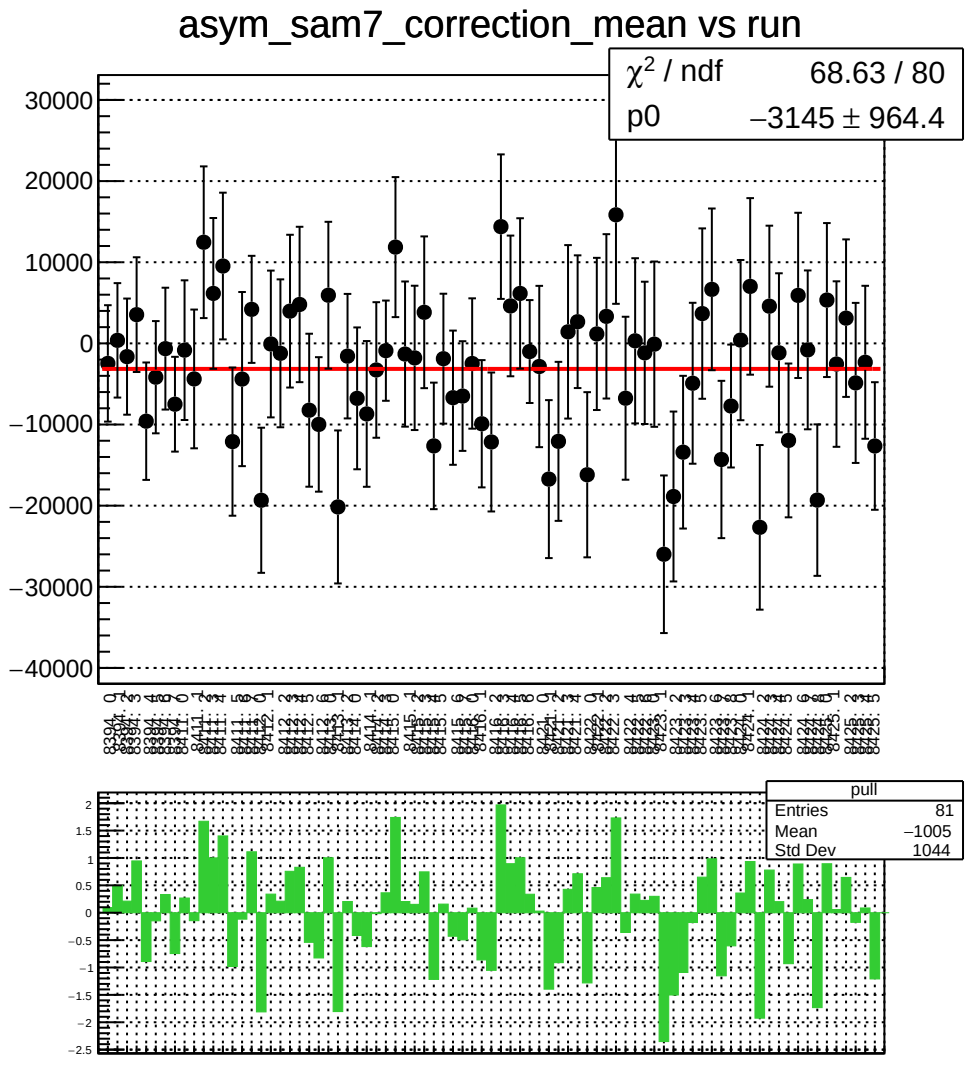

pull1D
Entries 81
Mean −0.002718
Std Dev 0.8562

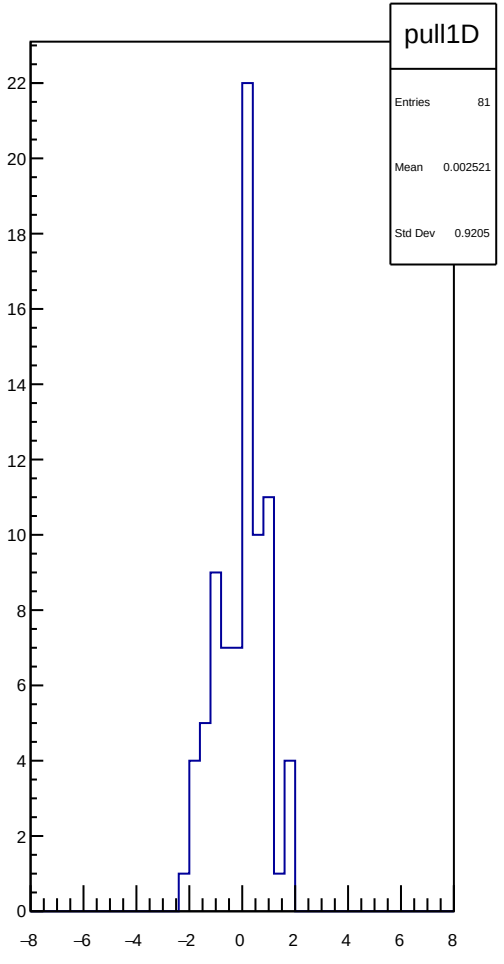

asym_sam6_correction_rms vs run
χ² / ndf 3.045e+04 / 80
p0 1756 ± 1.404
2200
2000
1800
1600
1400
1200

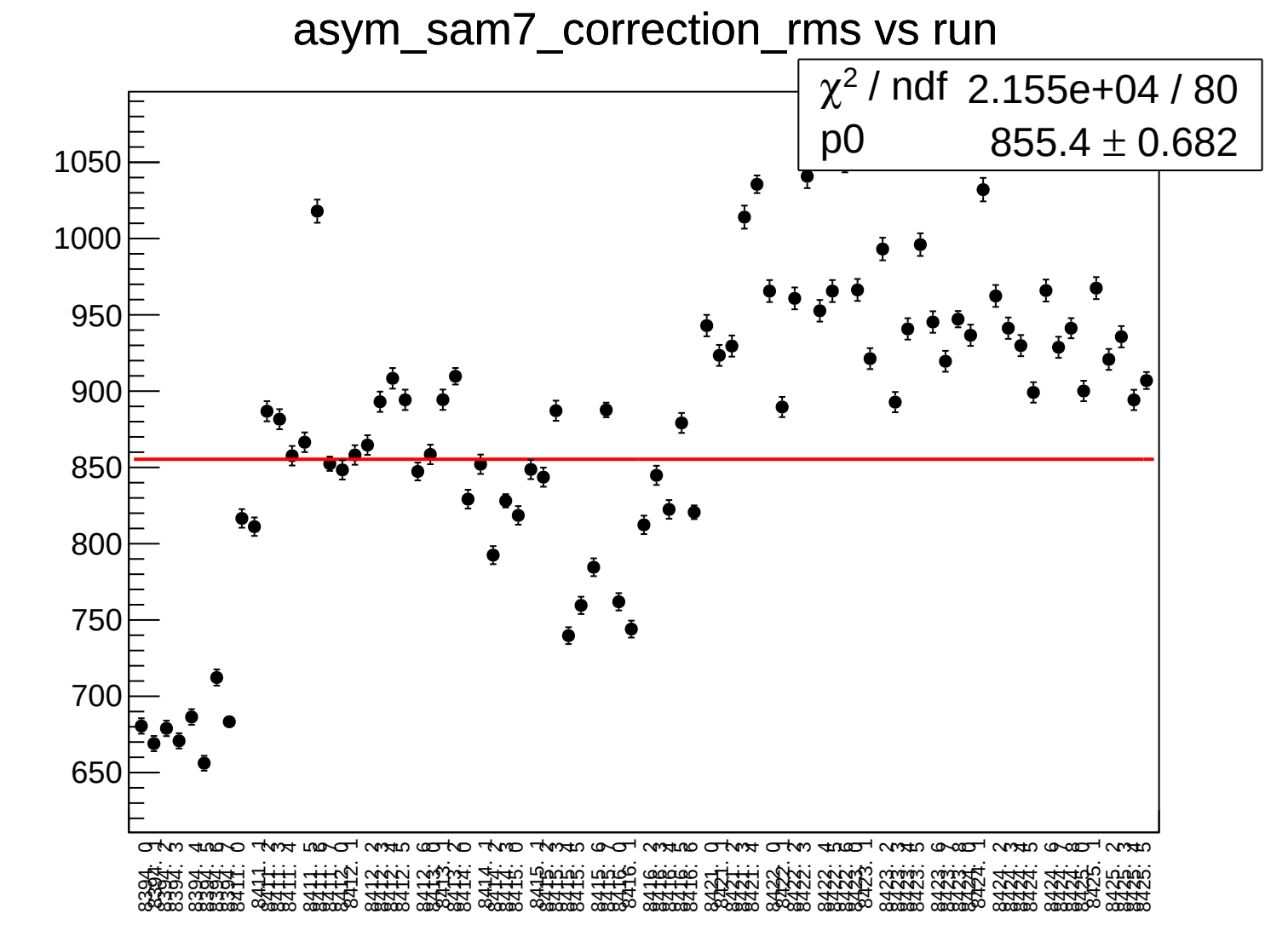

reg_asym_sam7_mean vs run
χ² / ndf 79.48 / 80
p0 238 ± 89.68
pull
Entries 81
Mean 114.2
Std Dev 261.6

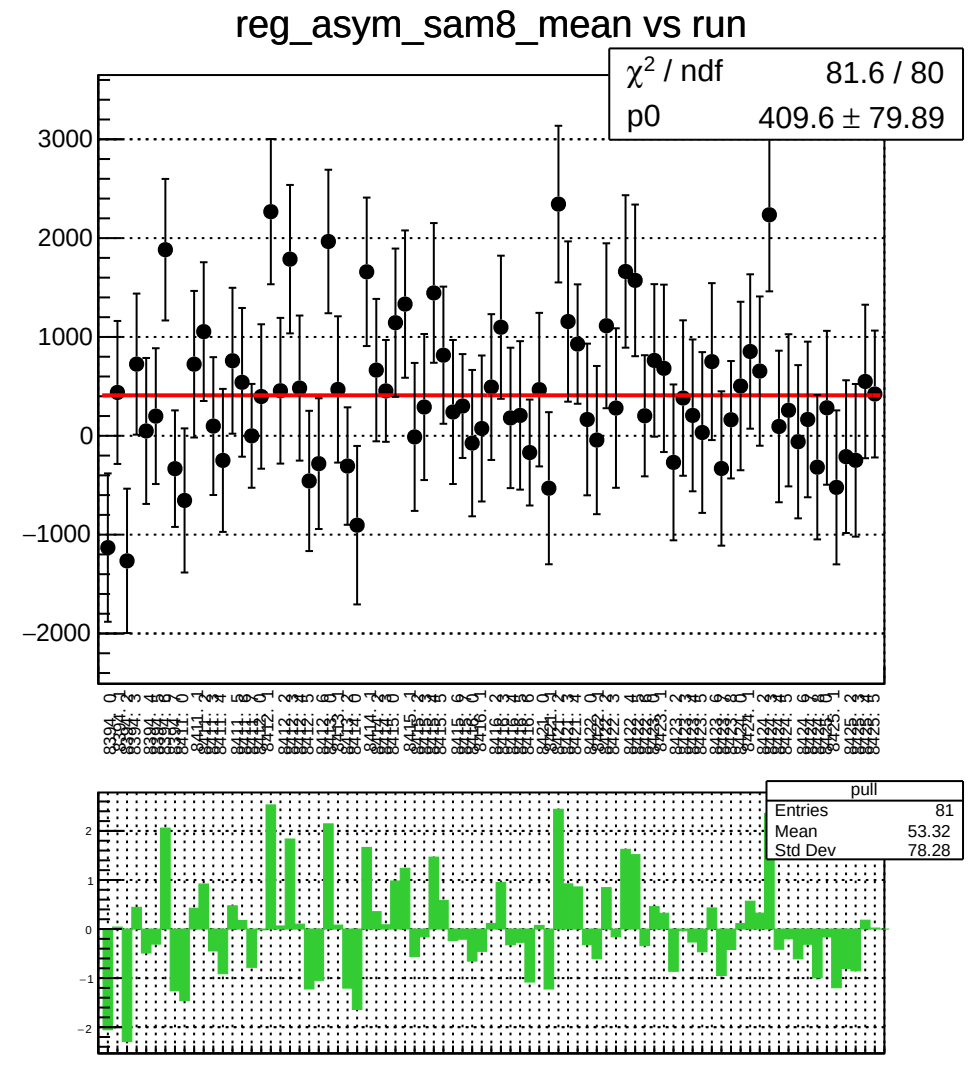

pull1D
Entries 81
Mean 0.002
Std Dev 0.9906

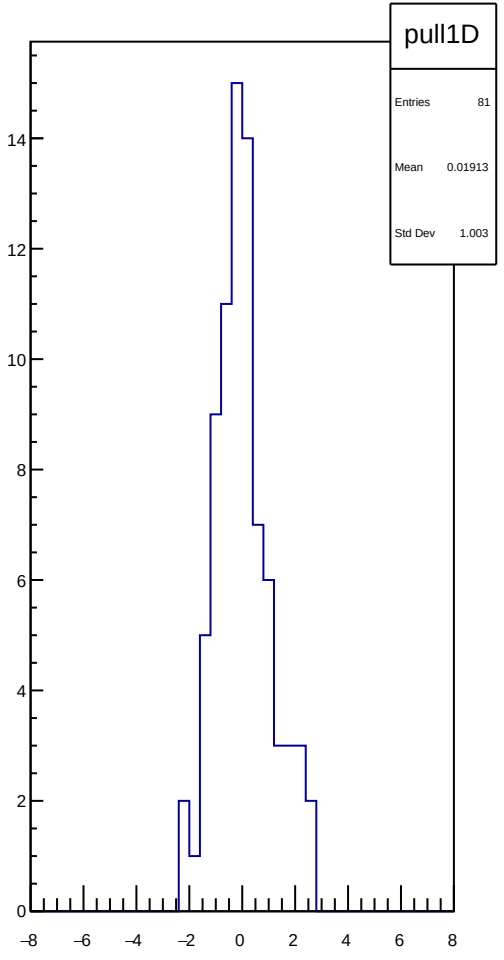

reg_asym_sam7_rms vs run
χ^2 / ndf 7642 / 80
p0 79.89 ± 0.06342
110
105
100
95
90
85
80
75
70

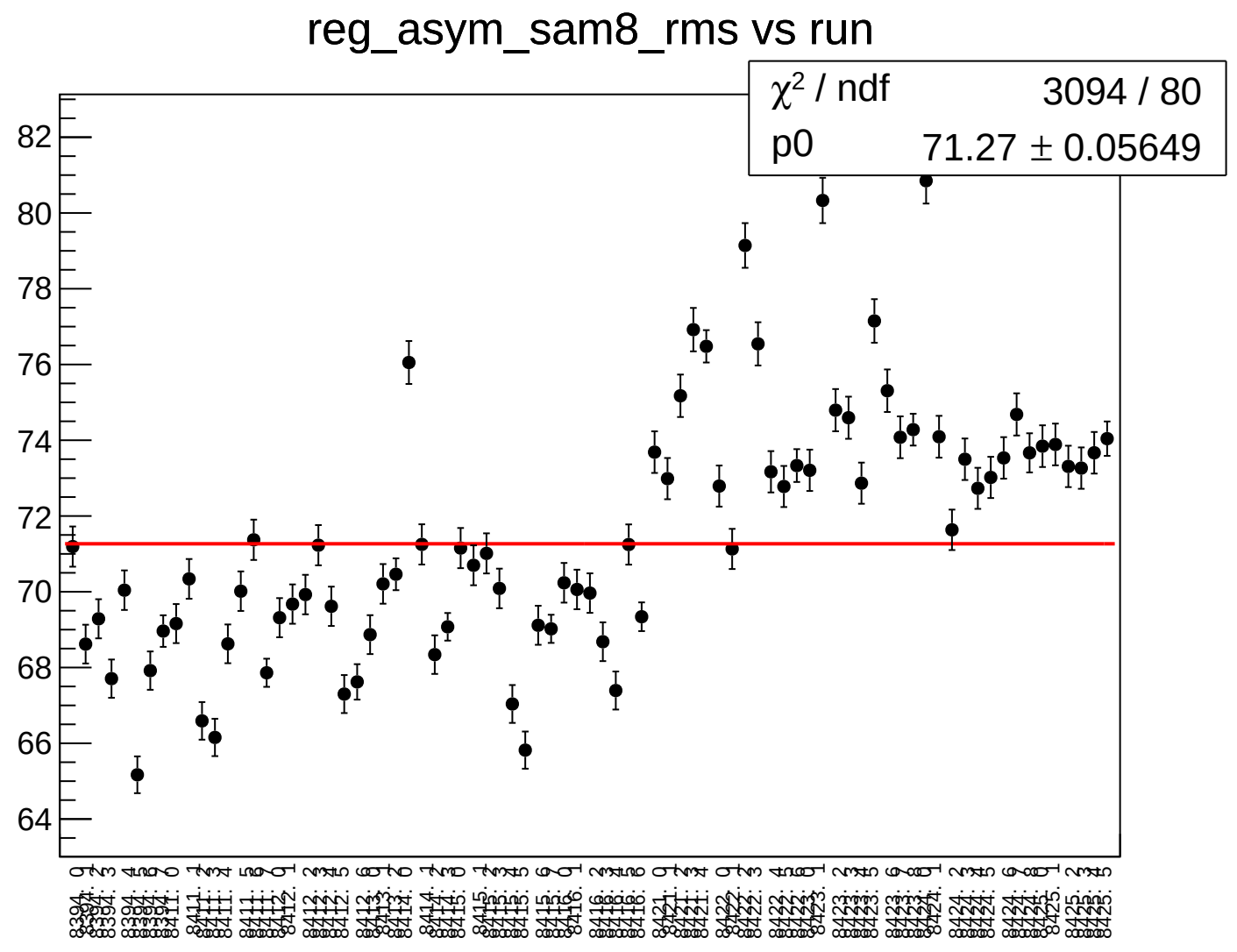

asym_sam7_correction_mean vs run
χ² / ndf 68.63 / 80
p0 −3145 ± 964.4
pull
Entries 81
Mean −1005
Std Dev 1044

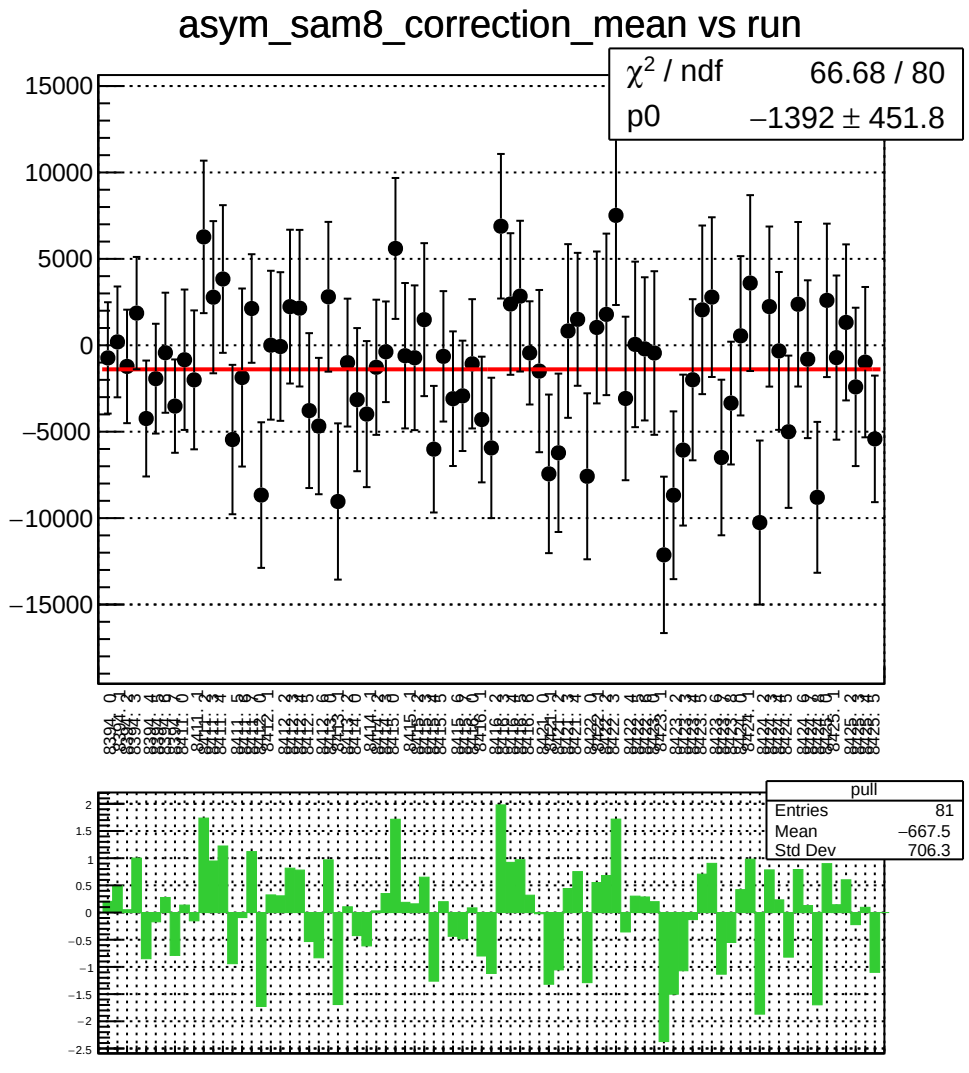

pull1D
Entries 81
Mean 0.002521
Std Dev 0.9205

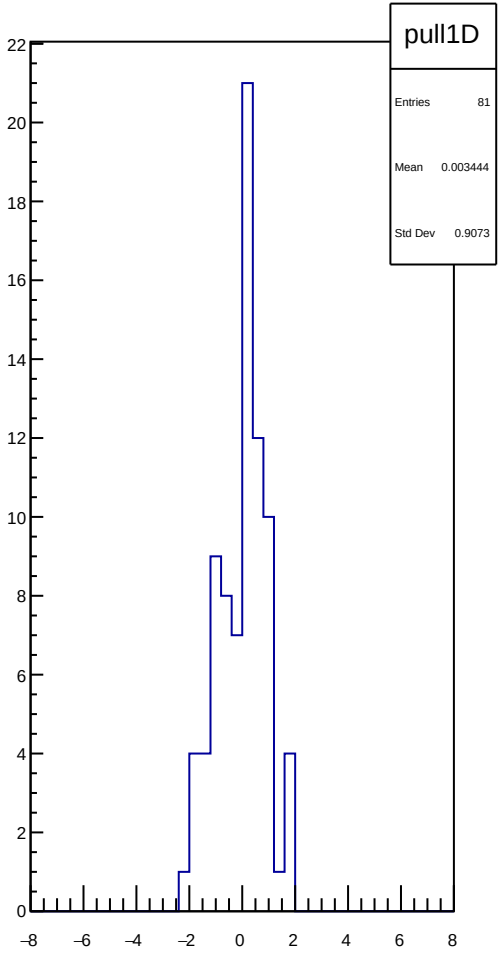

asym_sam7_correction_rms vs run
χ² / ndf 2.155e+04 / 80
p0 855.4 ± 0.682
1050
1000
950
900
850
800
750
700
650

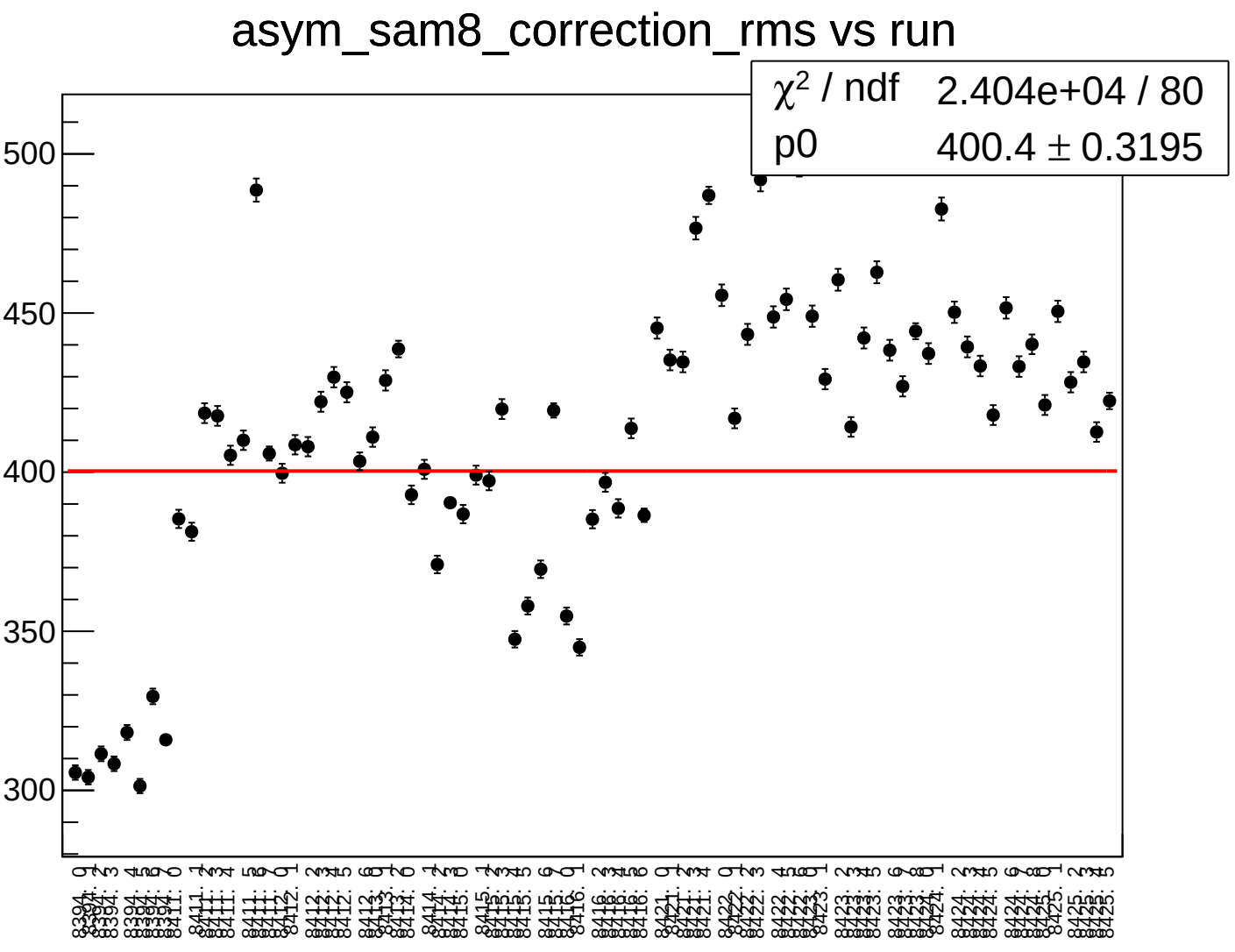

reg_asym_sam8_mean vs run
χ^2 / ndf 81.6 / 80
p0 409.6 ± 79.89
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 53.32
Std Dev 78.28
2
1
0
−1
−2

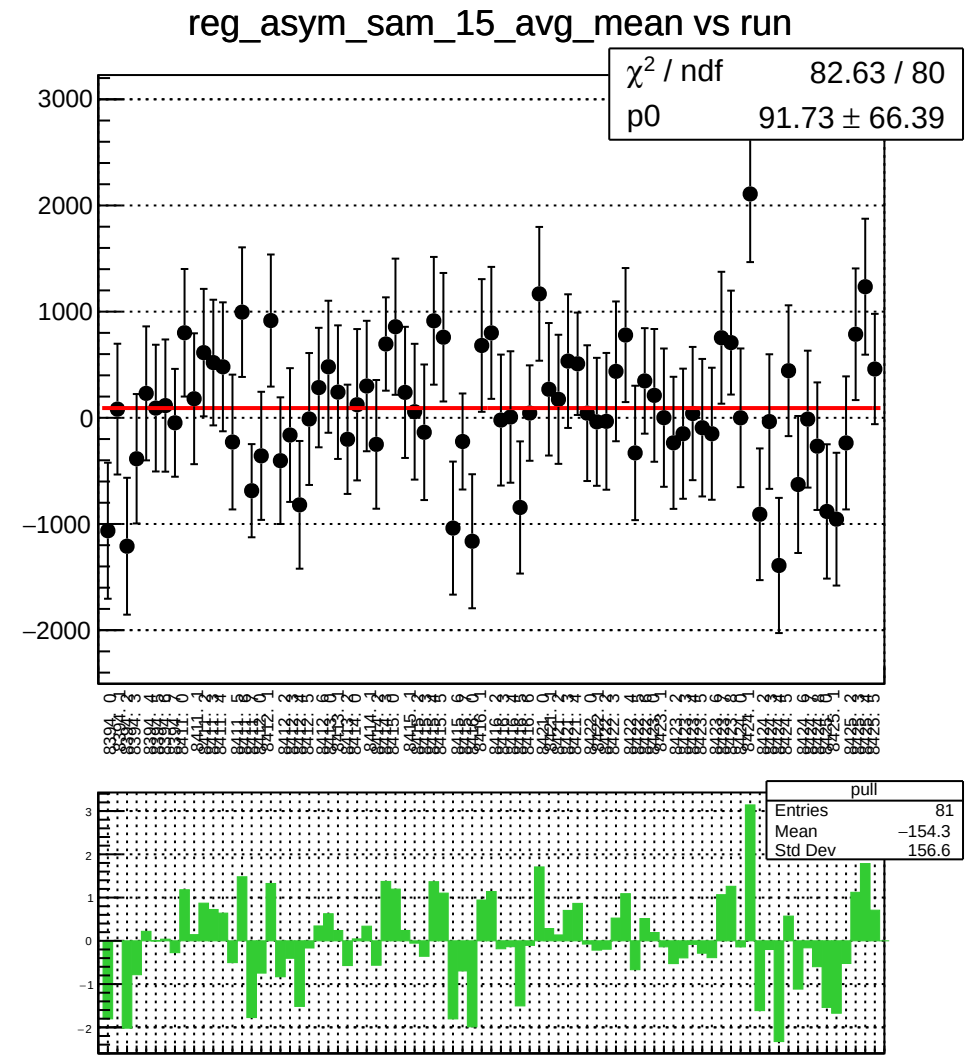

pull1D
Entries 81
Mean 0.01913
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

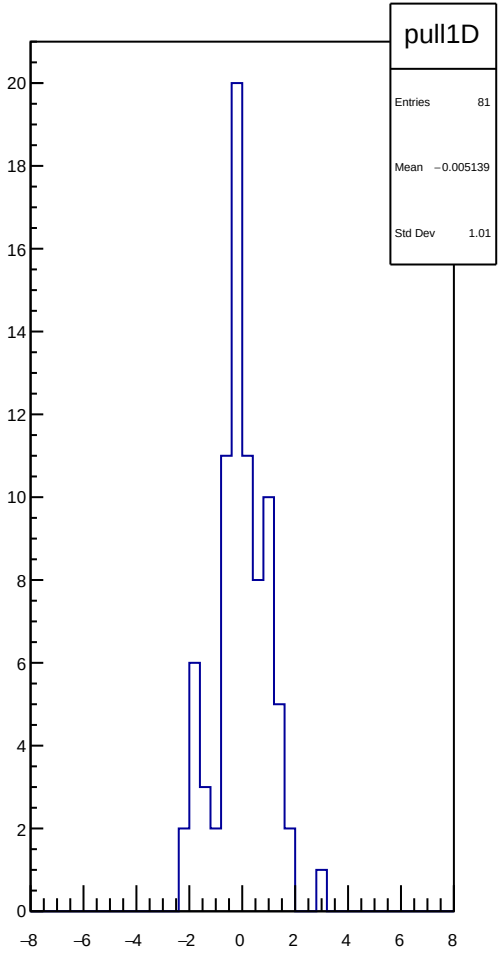

reg_asym_sam8_rms vs run
χ^2 / ndf 3094 / 80
p0 71.27 ± 0.05649
82
80
78
76
74
72
70
68
66
64

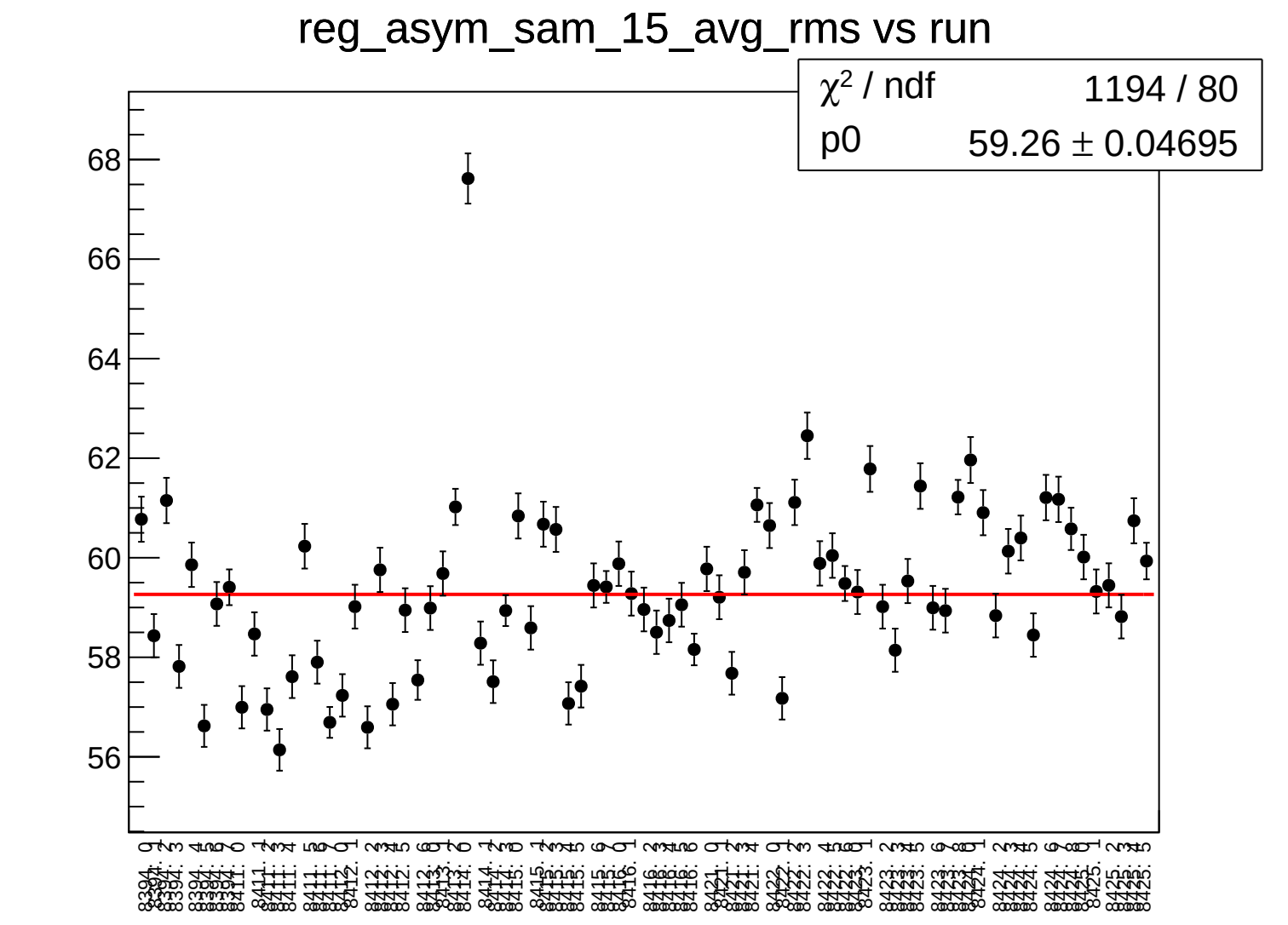

asym_sam8_correction_mean vs run
χ² / ndf 66.68 / 80
p0 −1392 ± 451.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −667.5
Std Dev 706.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

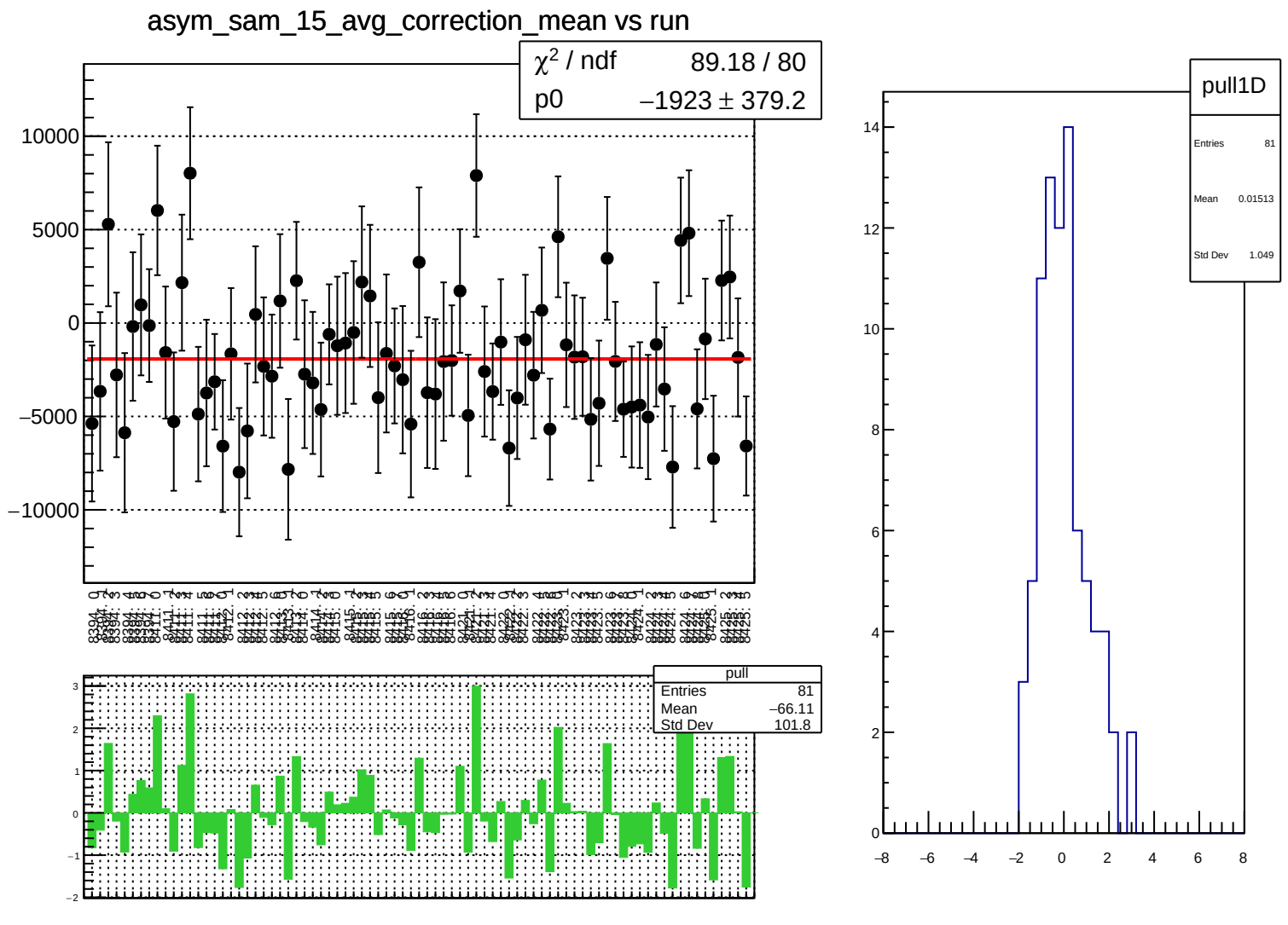

pull1D
Entries 81
Mean 0.003444
Std Dev 0.9073
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

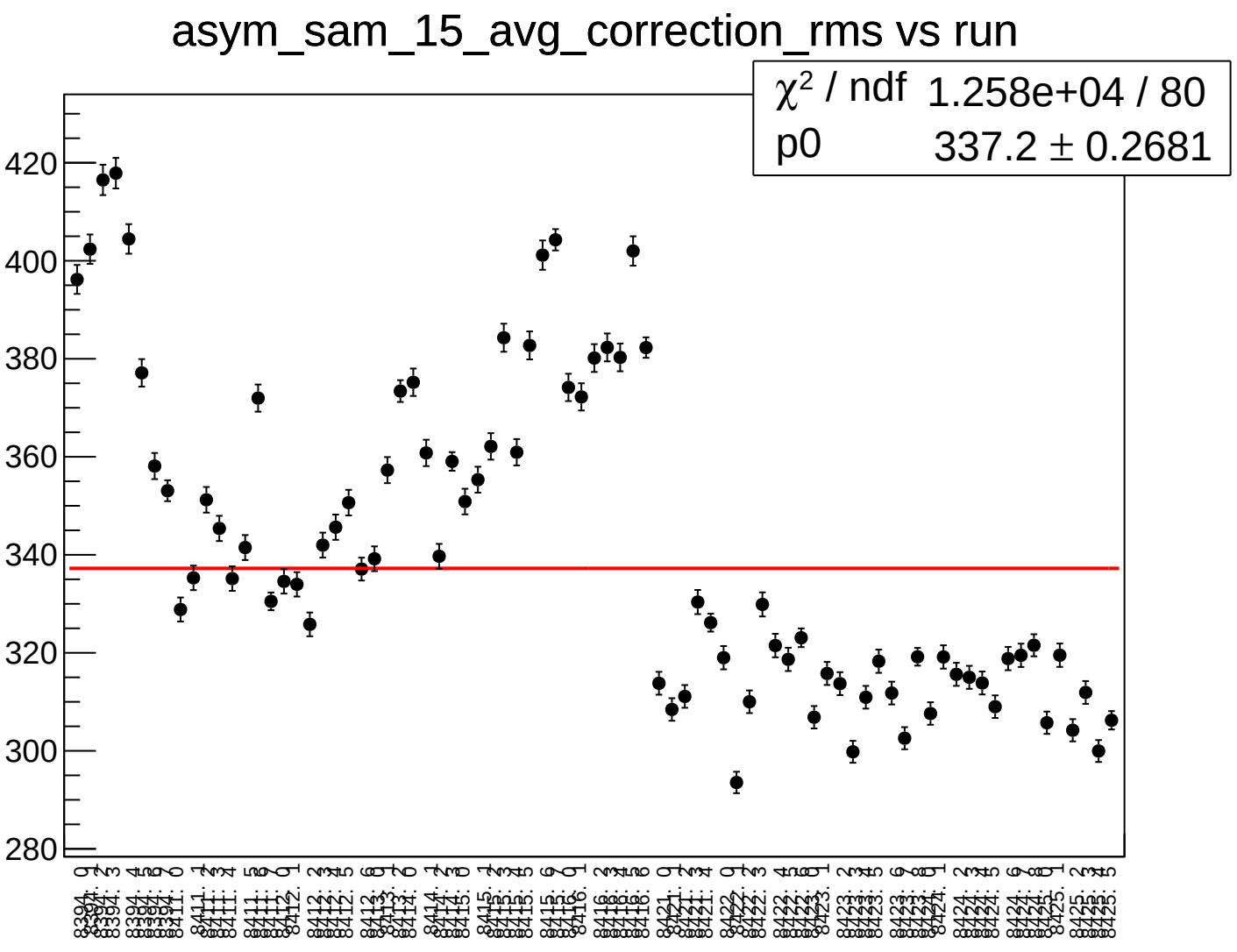

asym_sam8_correction_rms vs run
χ² / ndf 2.404e+04 / 80
p0 400.4 ± 0.3195
500
450
400
350
300

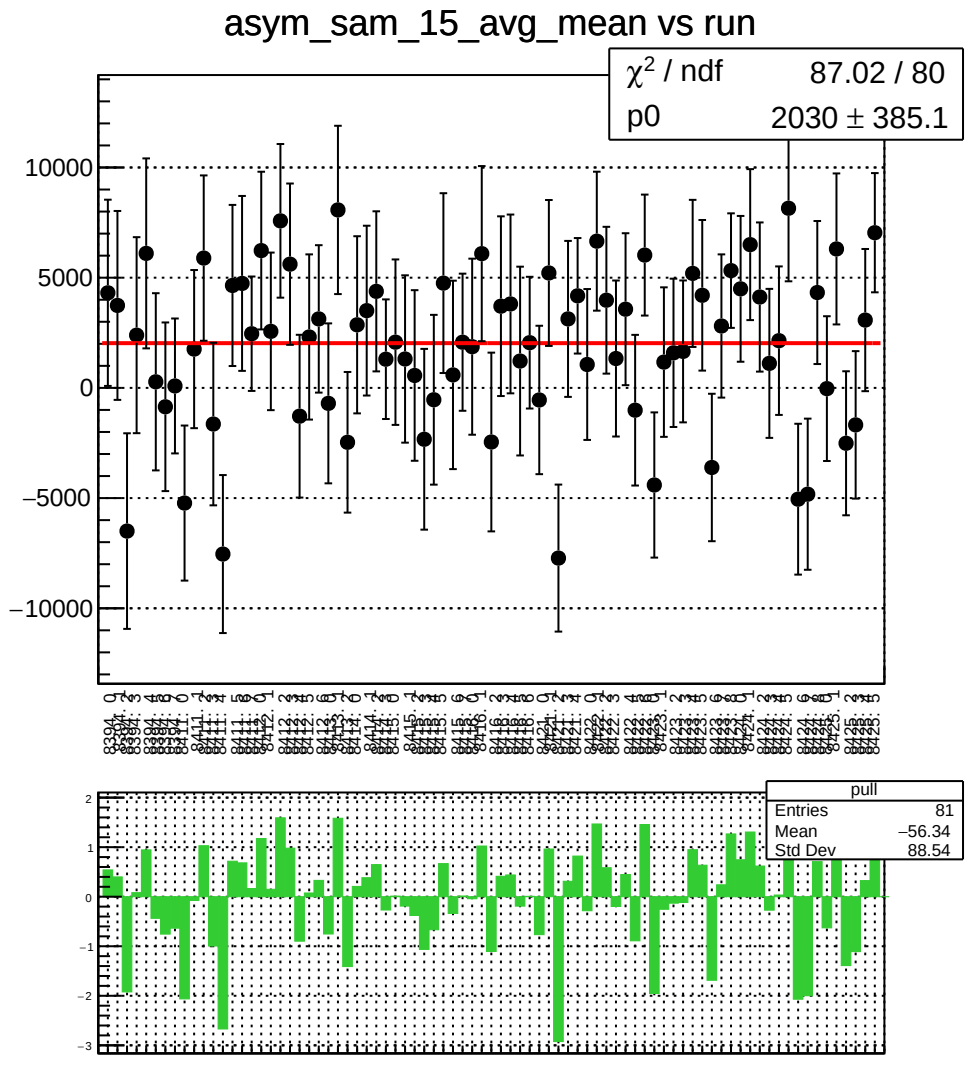

reg_asym_sam_15_avg_mean vs run
χ² / ndf 82.63 / 80
p0 91.73 ± 66.39
pull
Entries 81
Mean −154.3
Std Dev 156.6

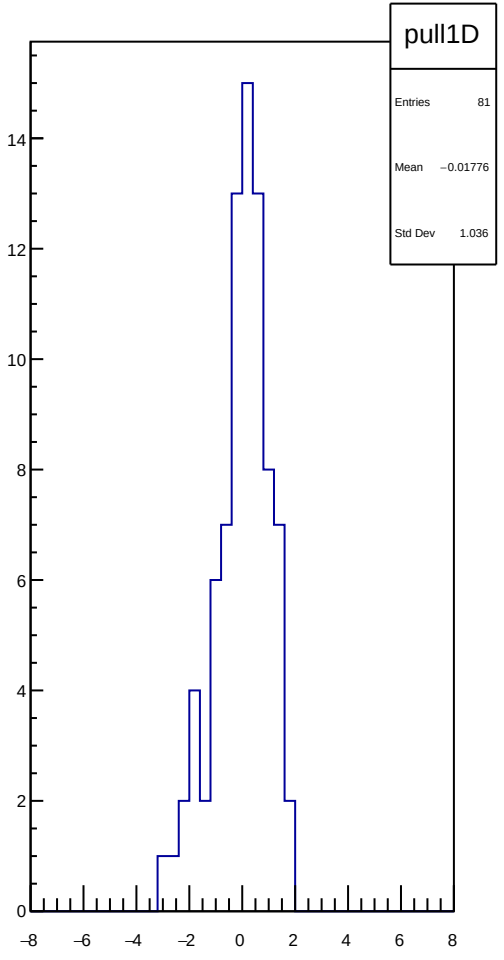

pull1D
Entries 81
Mean −0.005139
Std Dev 1.01

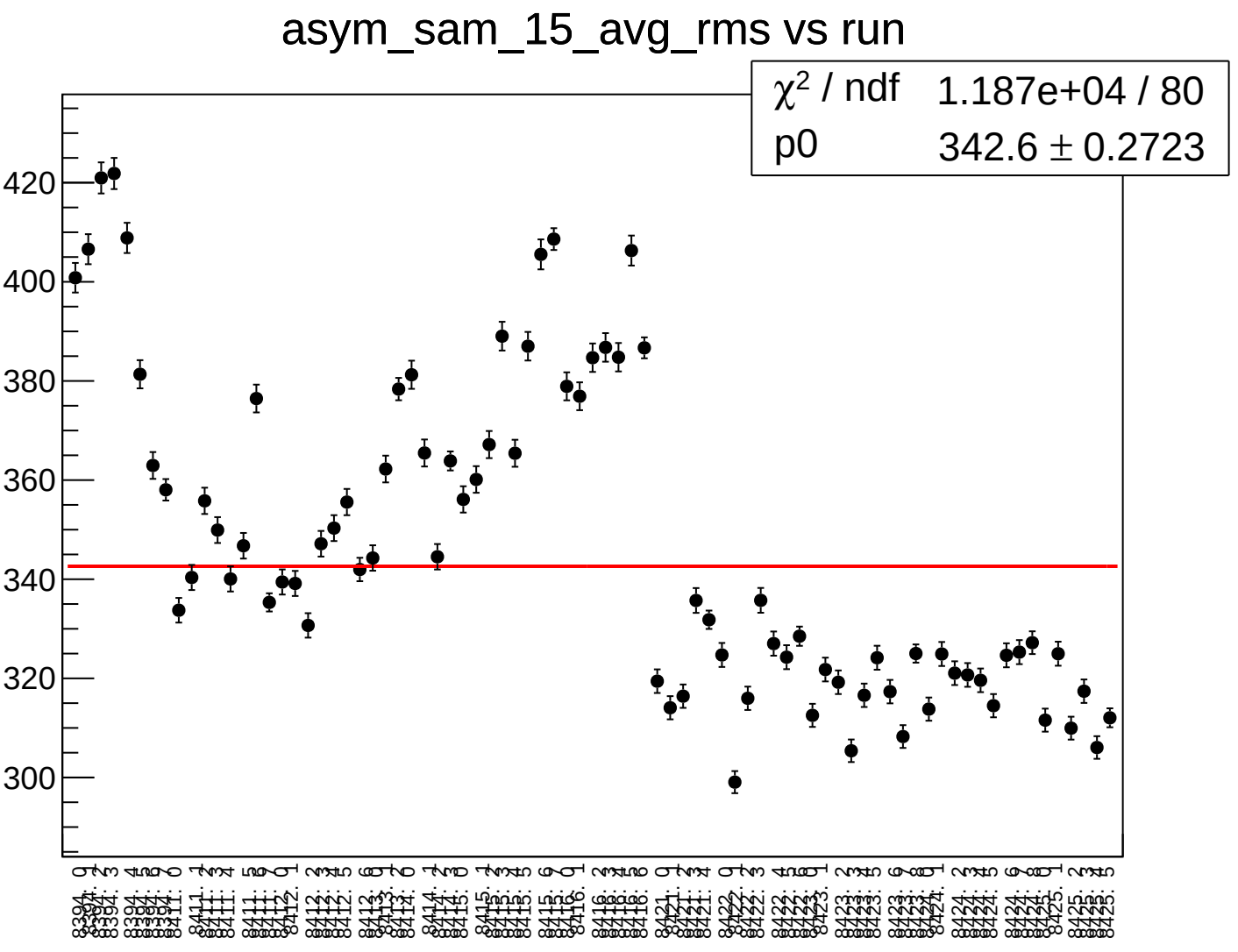

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1194 / 80
p0 59.26 ± 0.04695
68
66
64
62
60
58
56

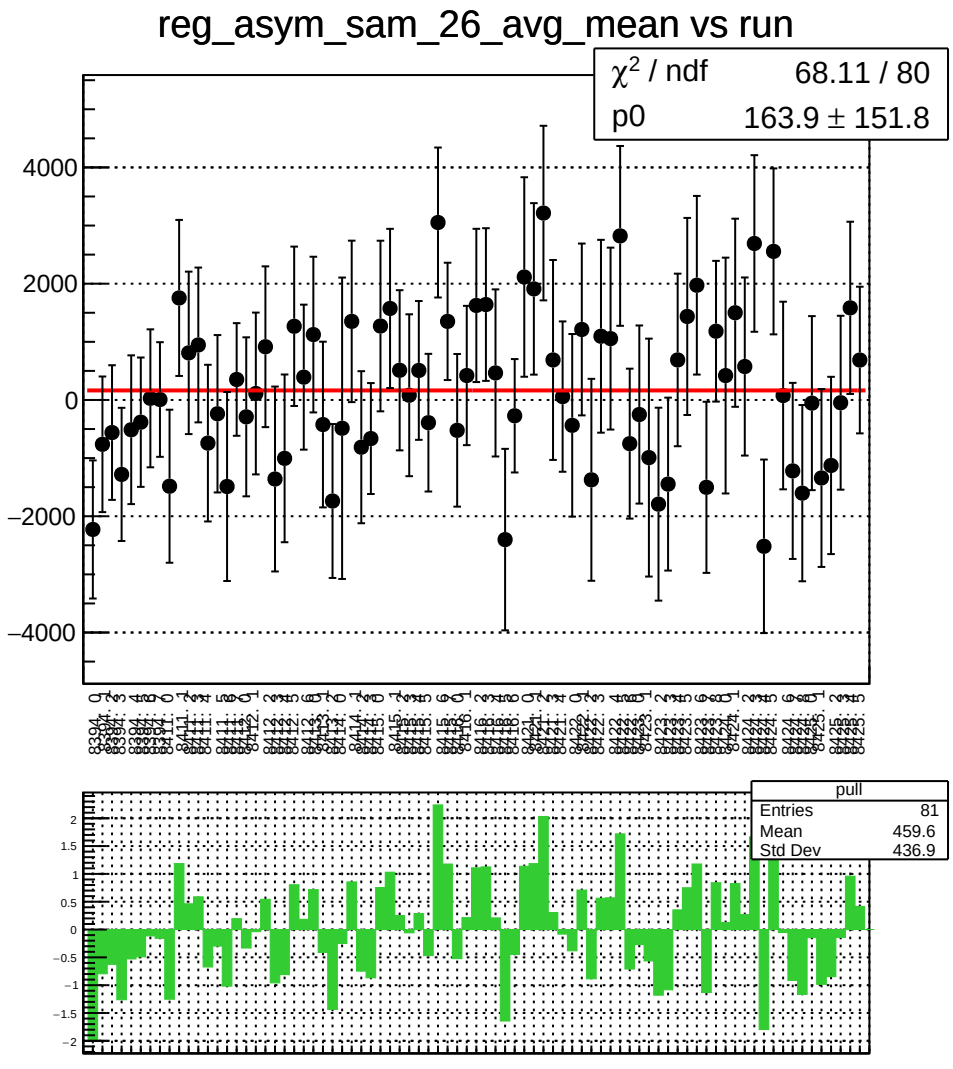

asym_sam_15_avg_correction_mean vs run
χ² / ndf 89.18 / 80
p0 −1923 ± 379.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −66.11
Std Dev 101.8
3
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.01513
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

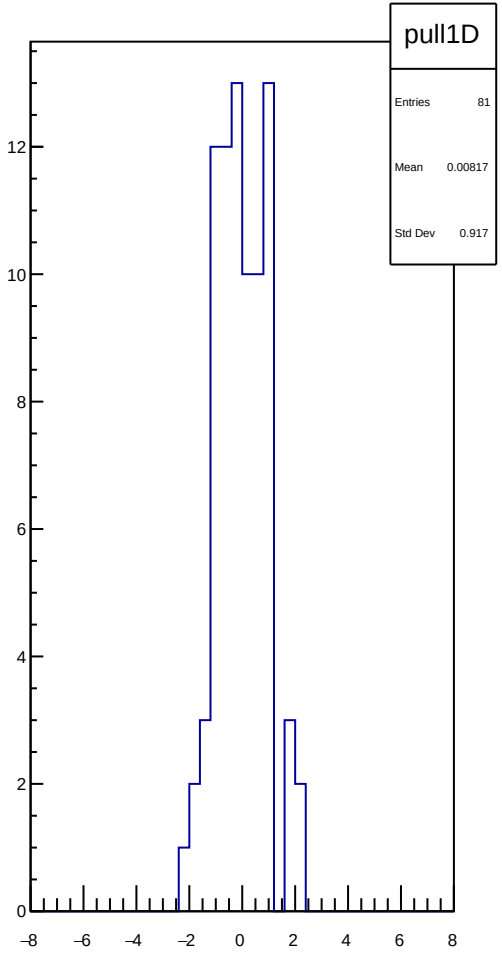

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.258e+04 / 80
p0 337.2 ± 0.2681
420
400
380
360
340
320
300
280

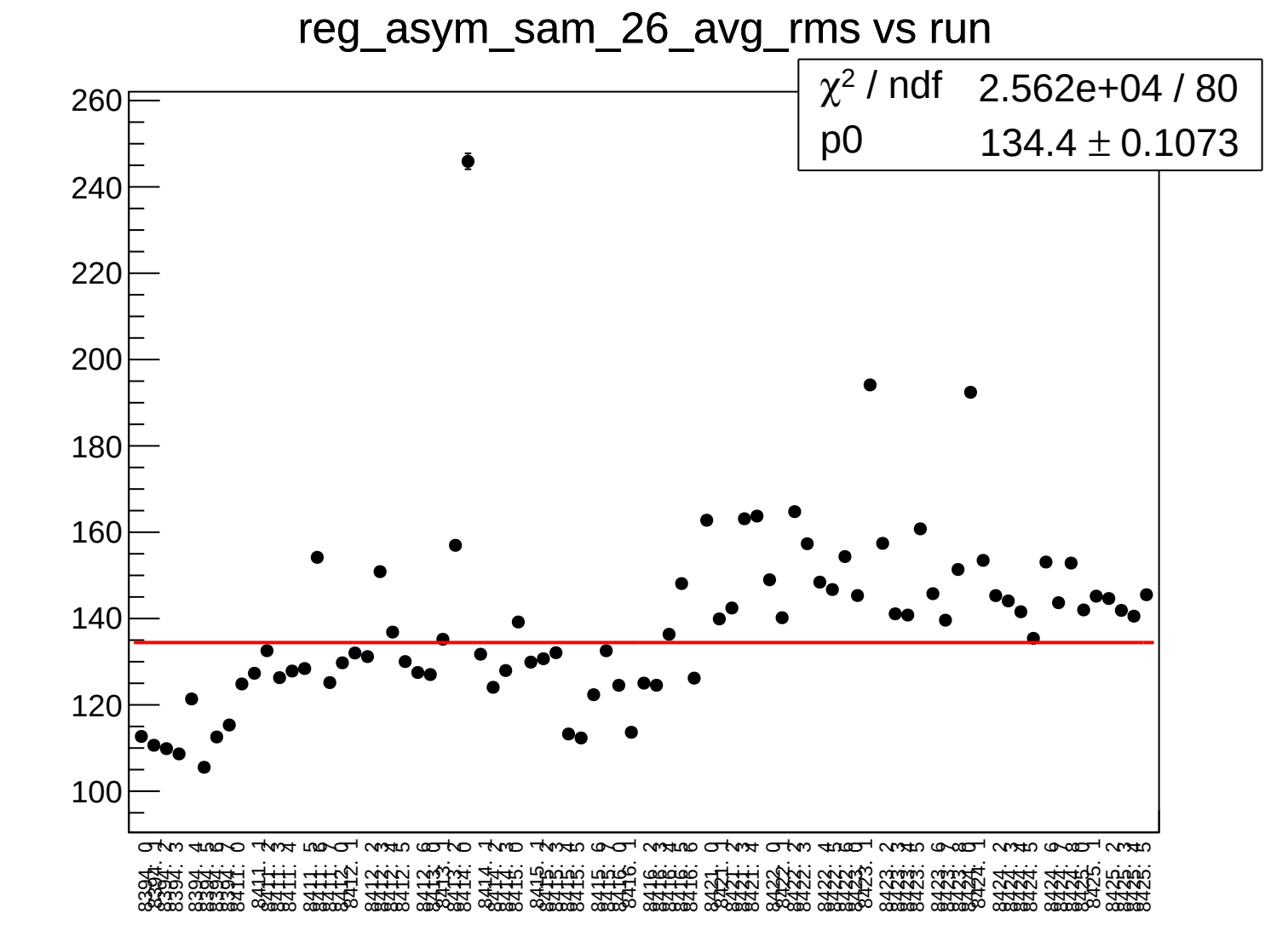

asym_sam_15_avg_mean vs run
χ² / ndf 87.02 / 80
p0 2030 ± 385.1
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −56.34
Std Dev 88.54
2
1
0
−1
−2
−3

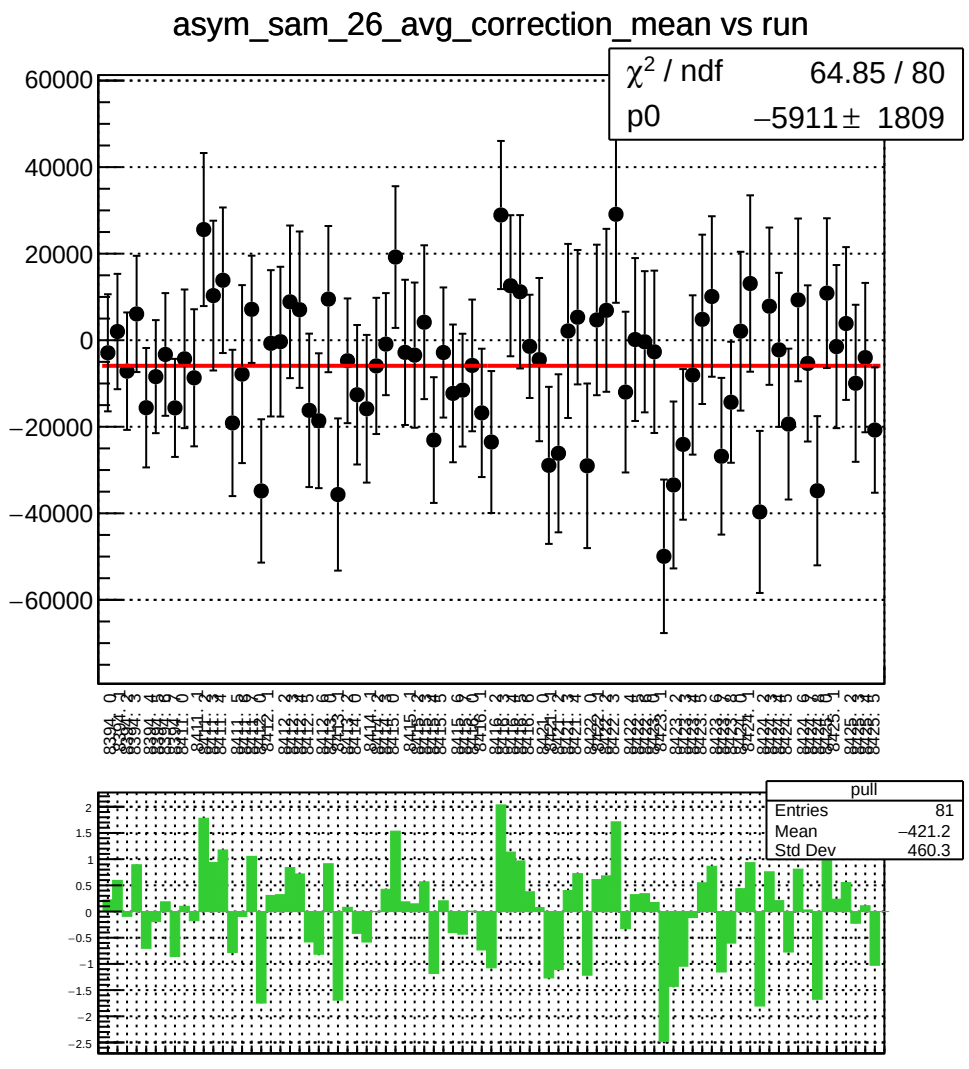

pull1D
Entries 81
Mean −0.01776
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

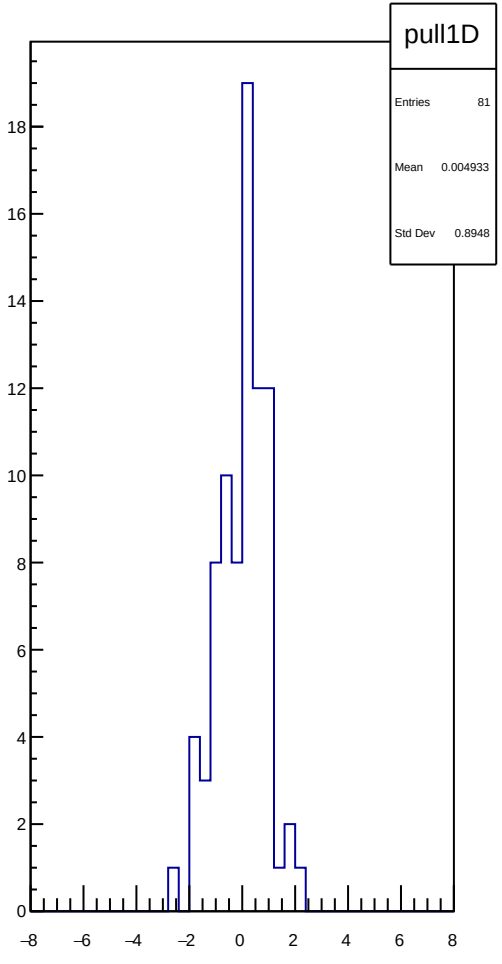

asym_sam_15_avg_rms vs run
χ² / ndf 1.187e+04 / 80
p0 342.6 ± 0.2723
420
400
380
360
340
320
300

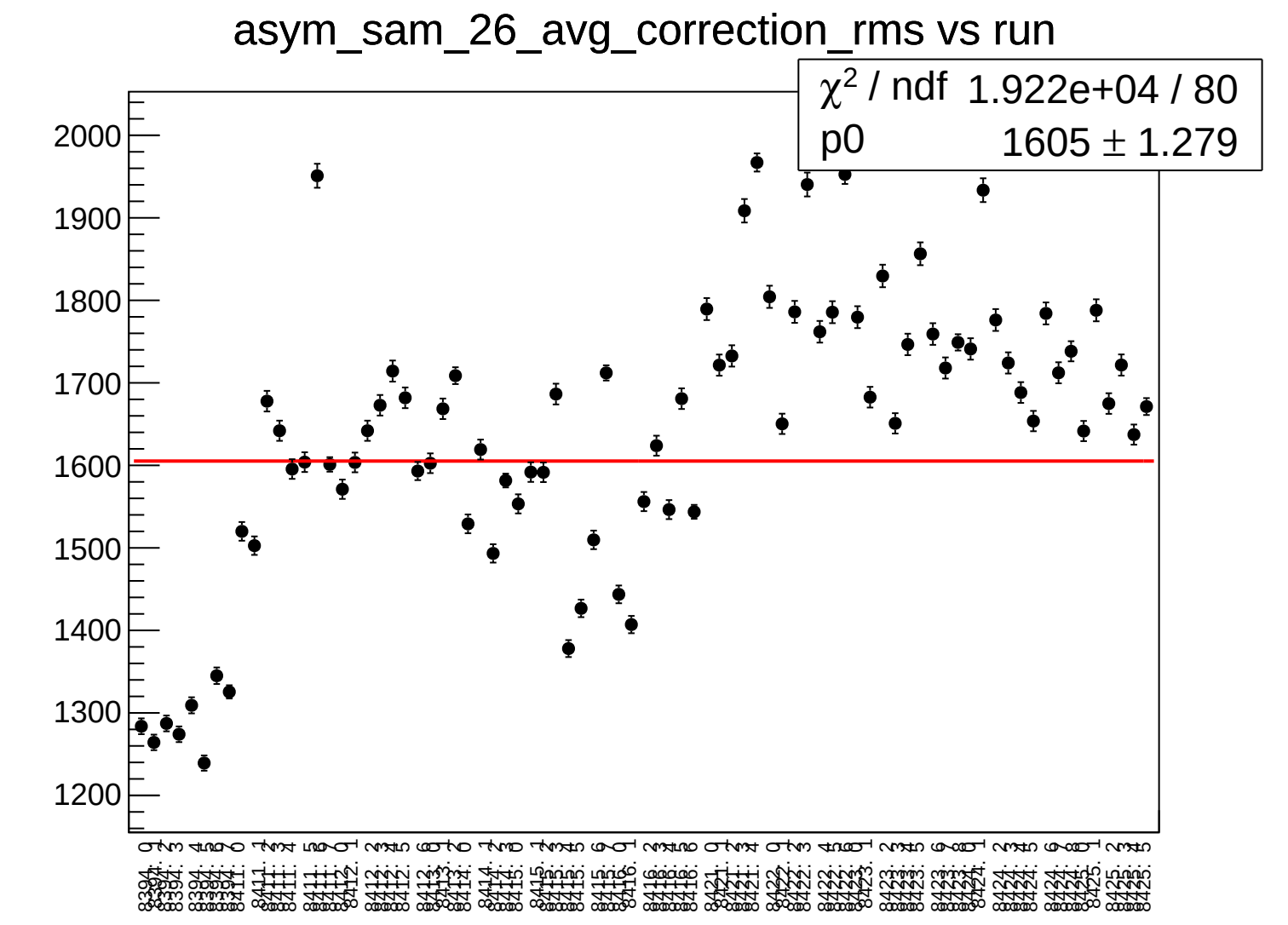

reg_asym_sam_26_avg_mean vs run
χ² / ndf 68.11 / 80
p0 163.9 ± 151.8
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 459.6
Std Dev 436.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

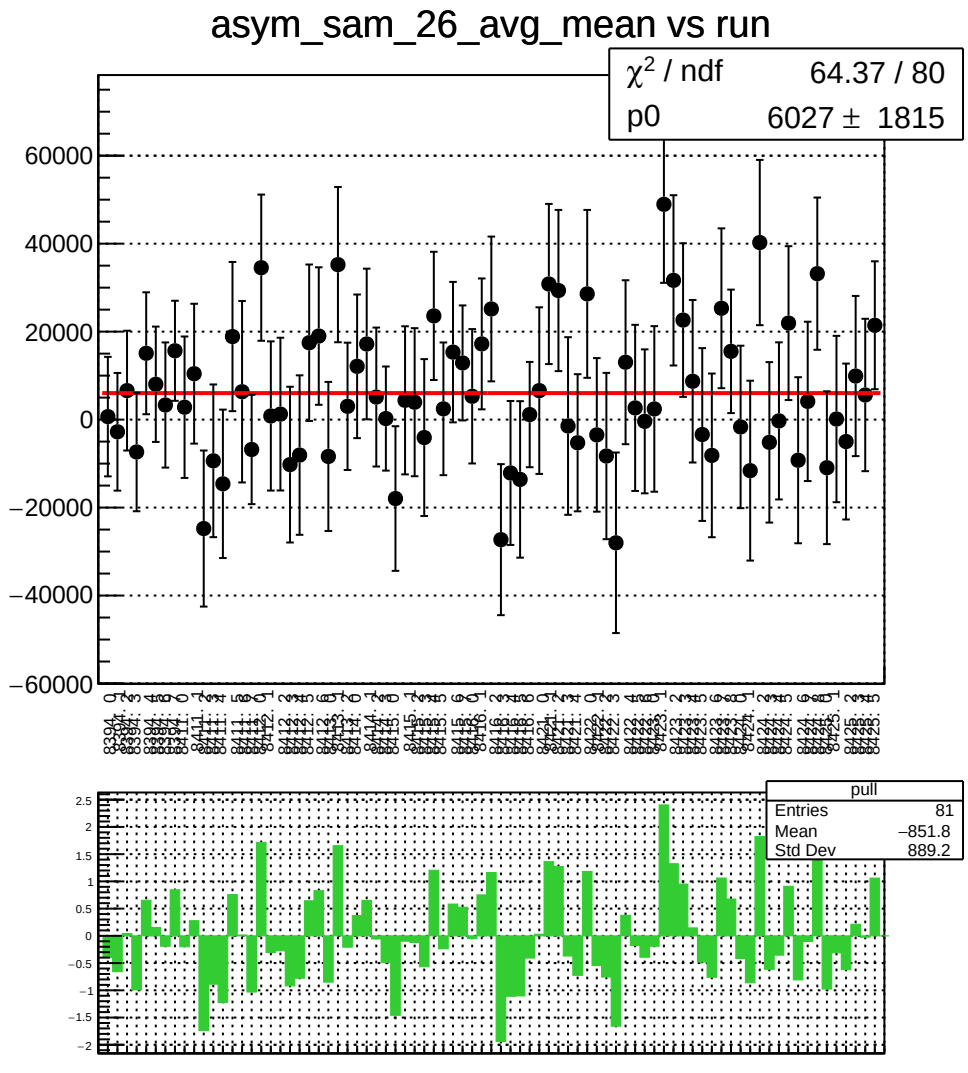

pull1D
Entries 81
Mean 0.00817
Std Dev 0.917
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

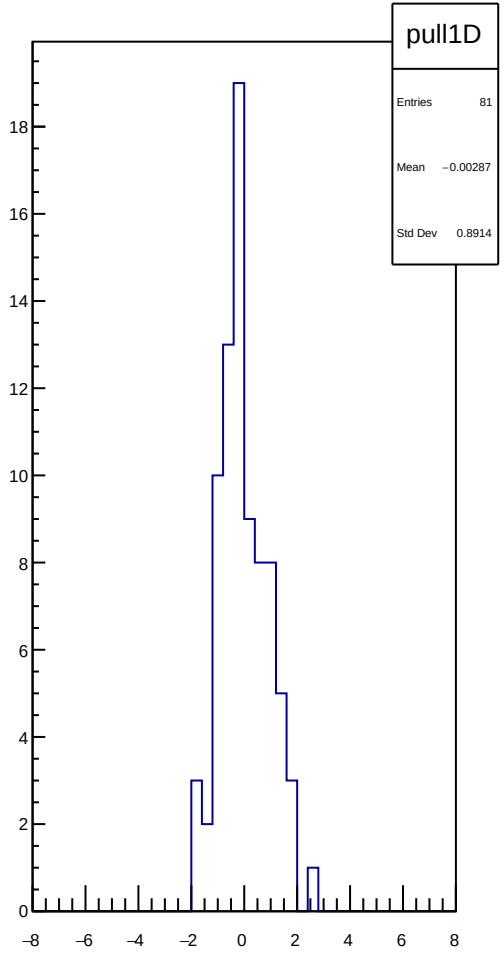

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 2.562e+04 / 80
p0 134.4 ± 0.1073
260
240
220
200
180
160
140
120
100

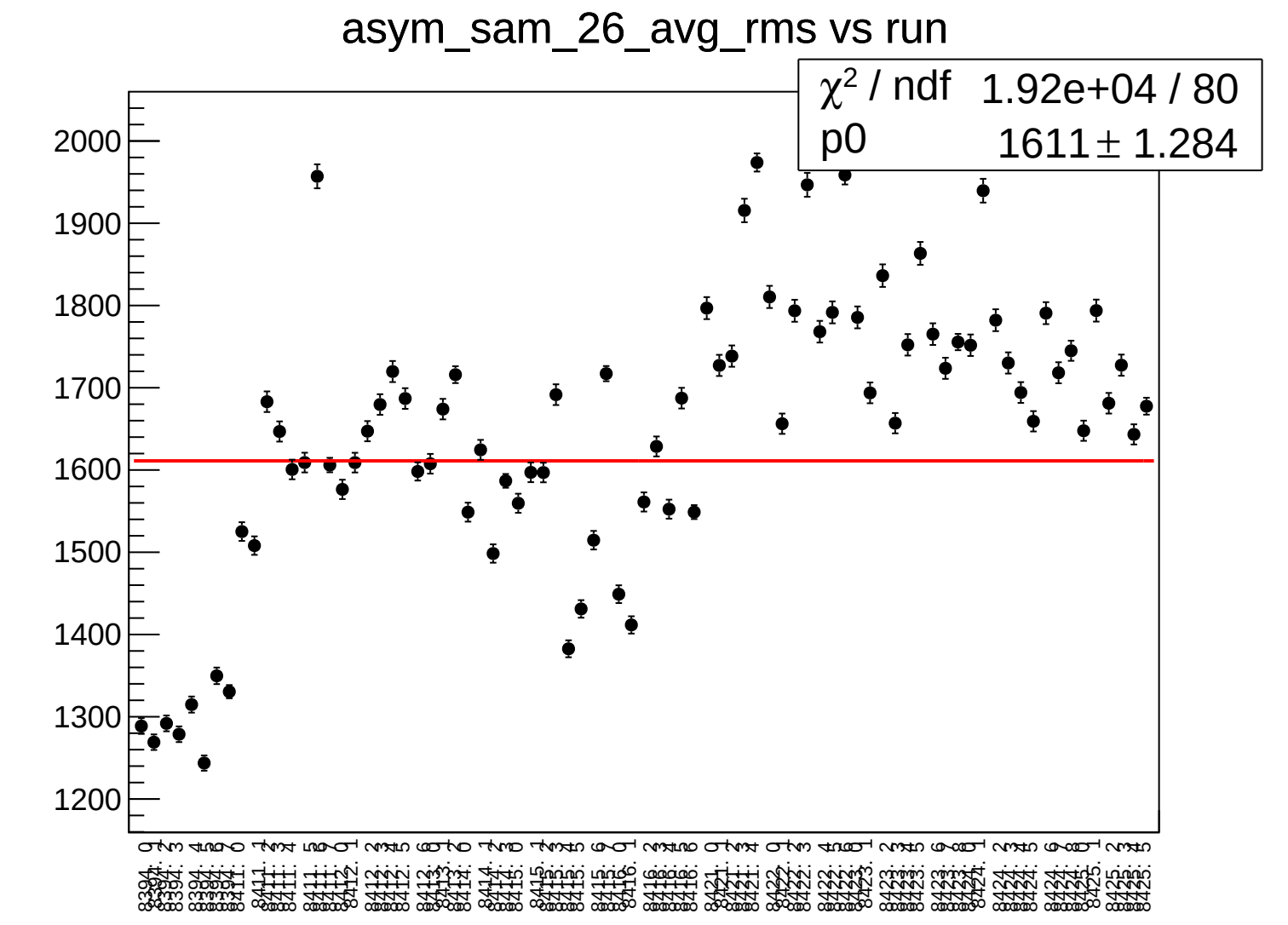

asym_sam_26_avg_correction_mean vs run
χ² / ndf 64.85 / 80
p0 −5911 ± 1809
pull
Entries 81
Mean −421.2
Std Dev 460.3

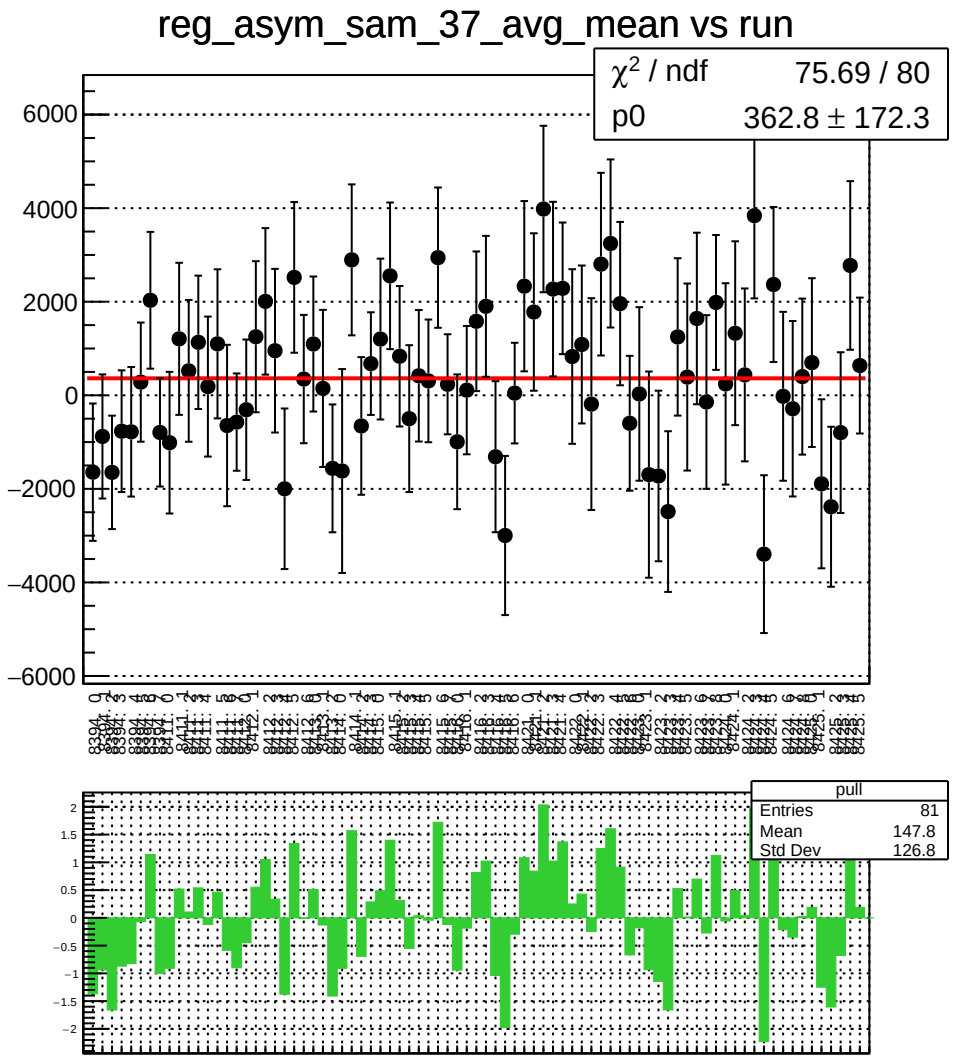

pull1D
Entries 81
Mean 0.004933
Std Dev 0.8948

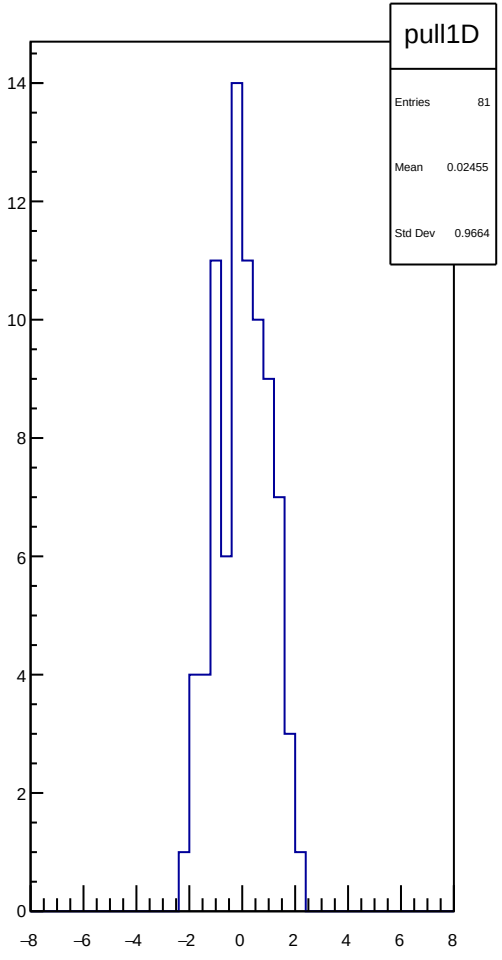

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1.922e+04 / 80
p0 1605 ± 1.279
2000
1900
1800
1700
1600
1500
1400
1300
1200

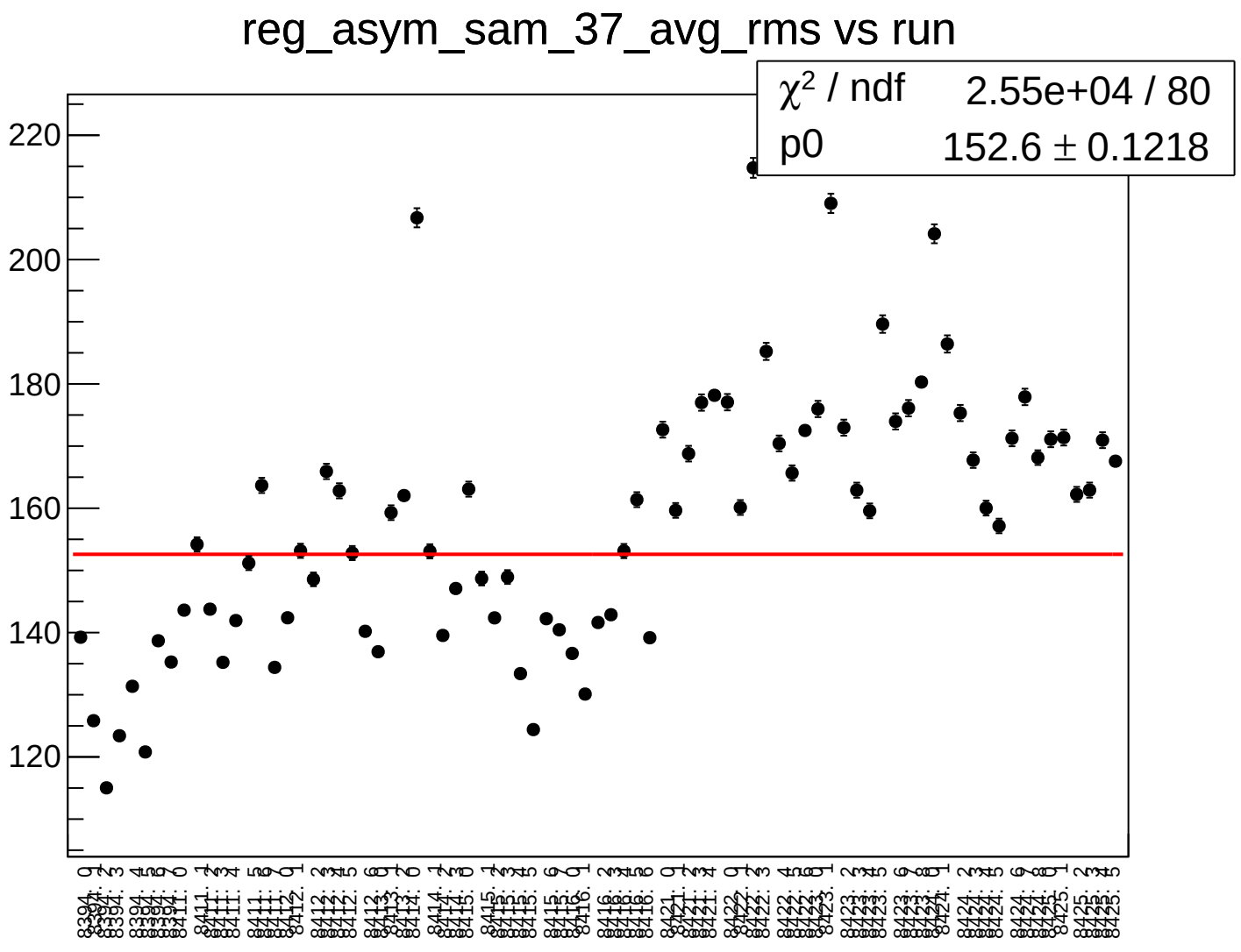

asym_sam_26_avg_mean vs run
χ² / ndf 64.37 / 80
p0 6027 ± 1815
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −851.8
Std Dev 889.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

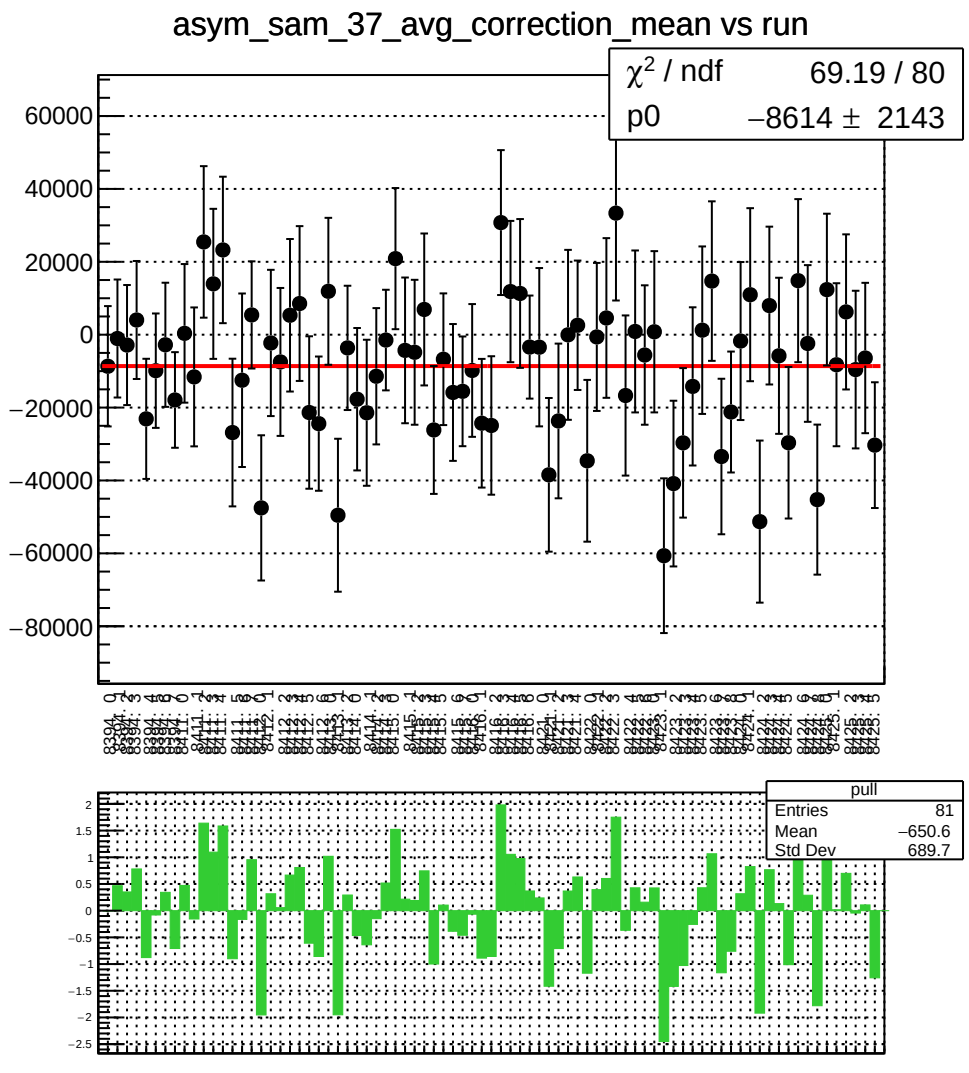

pull1D
Entries 81
Mean −0.00287
Std Dev 0.8914
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

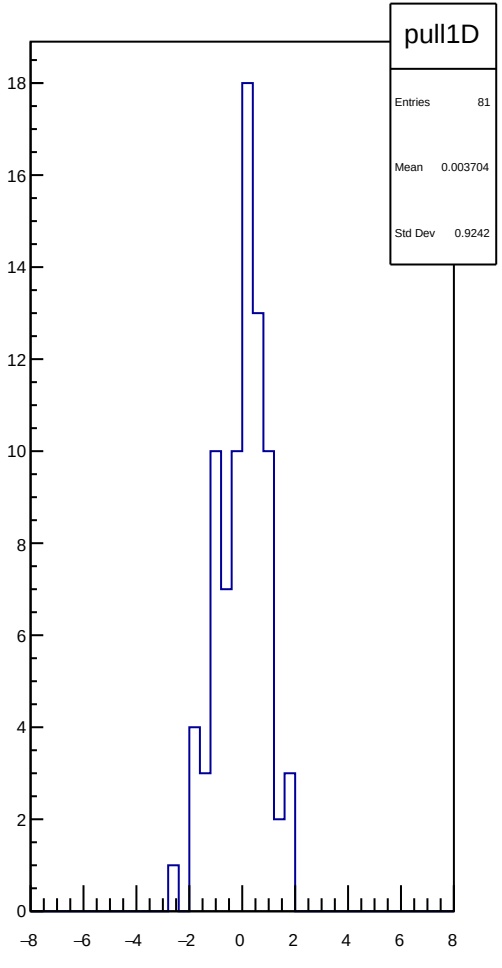

asym_sam_26_avg_rms vs run
χ² / ndf 1.92e+04 / 80
p0 1611 ± 1.284
2000
1900
1800
1700
1600
1500
1400
1300
1200

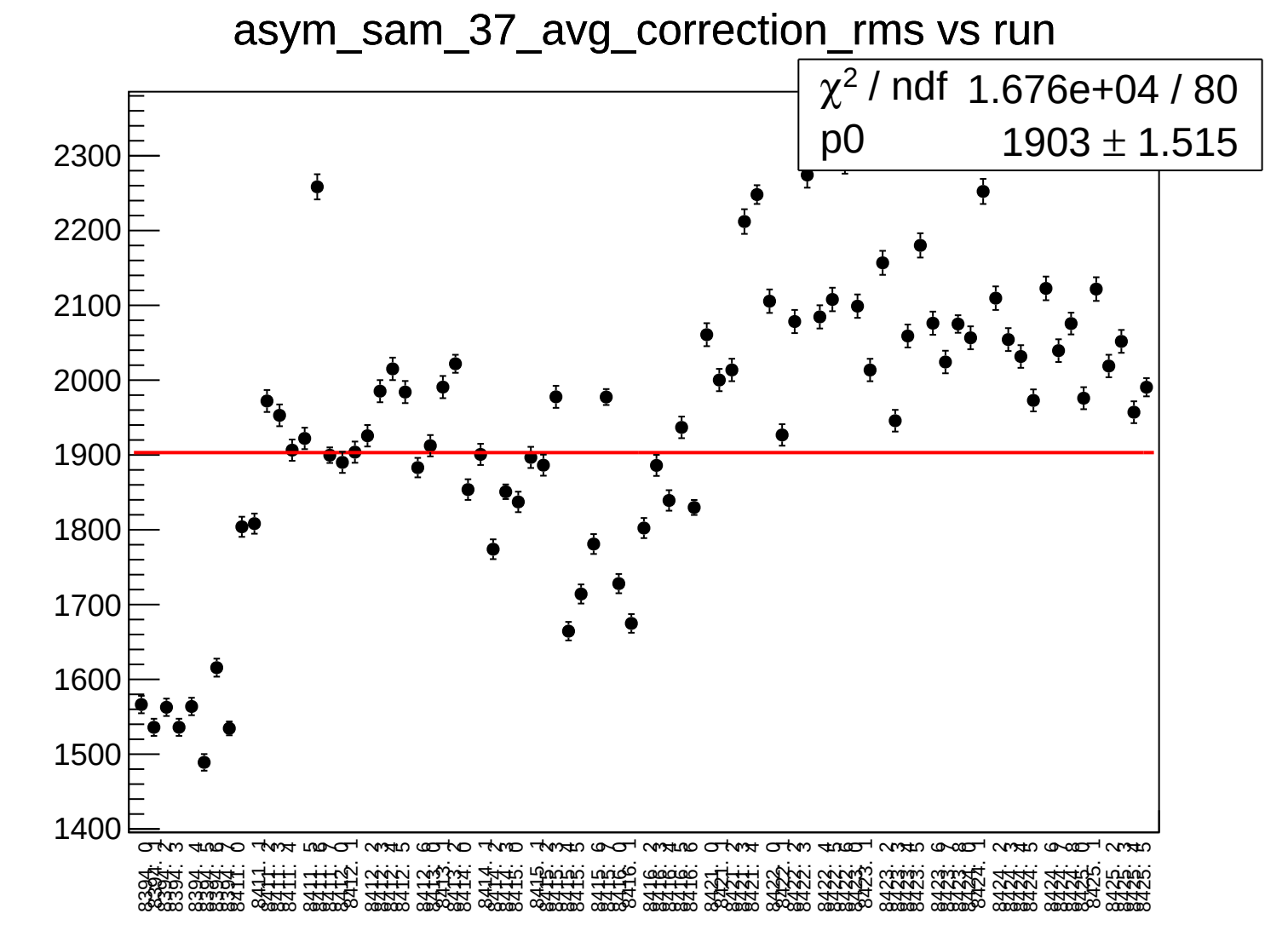

reg_asym_sam_37_avg_mean vs run
χ² / ndf 75.69 / 80
p0 362.8 ± 172.3
pull
Entries 81
Mean 147.8
Std Dev 126.8

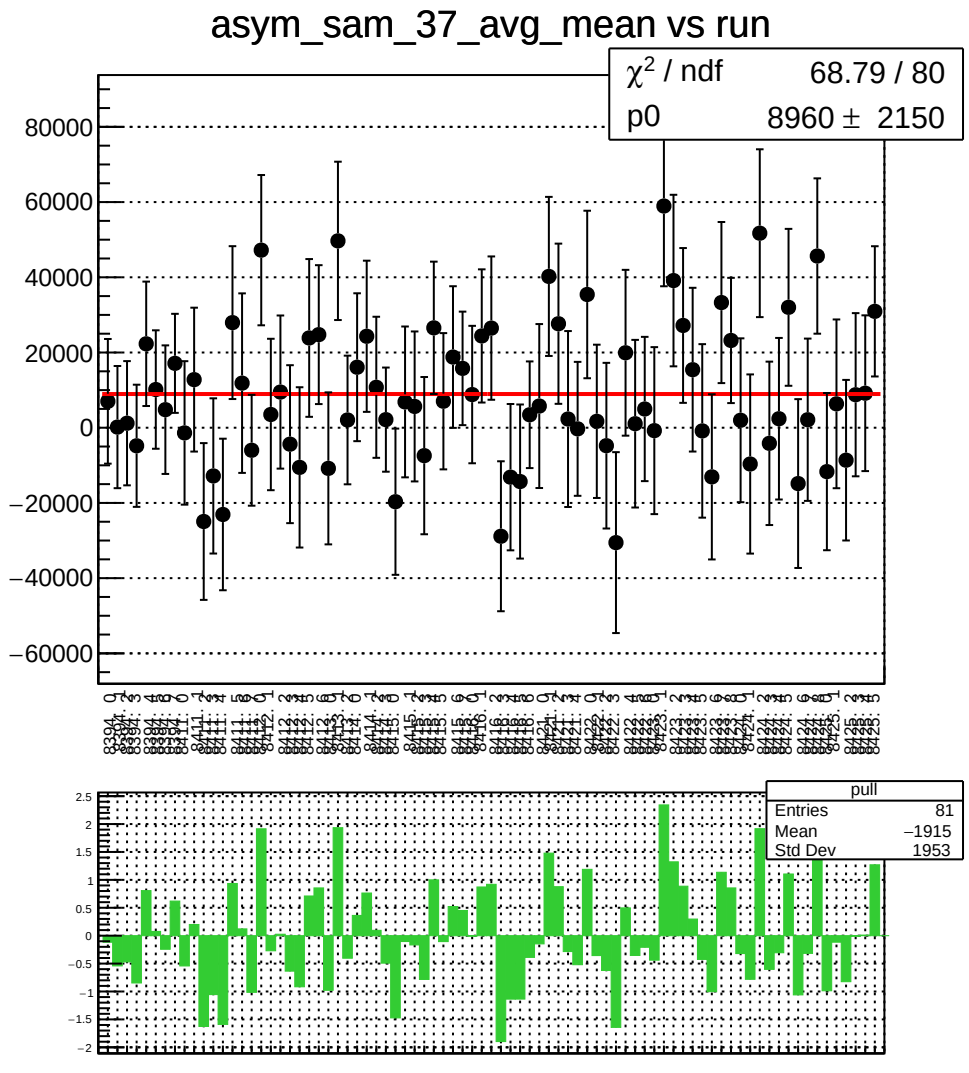

pull1D
Entries 81
Mean 0.02455
Std Dev 0.9664

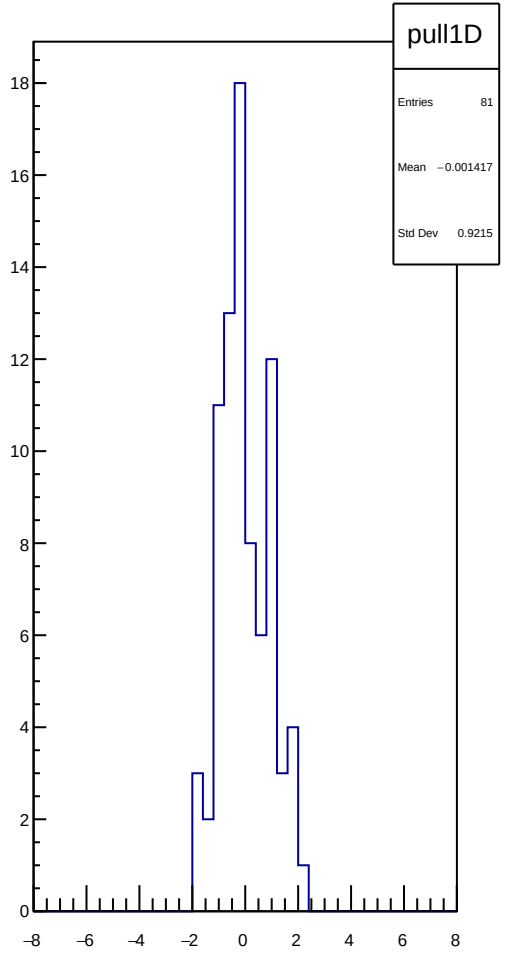

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.55e+04 / 80
p0 152.6 ± 0.1218
220
200
180
160
140
120

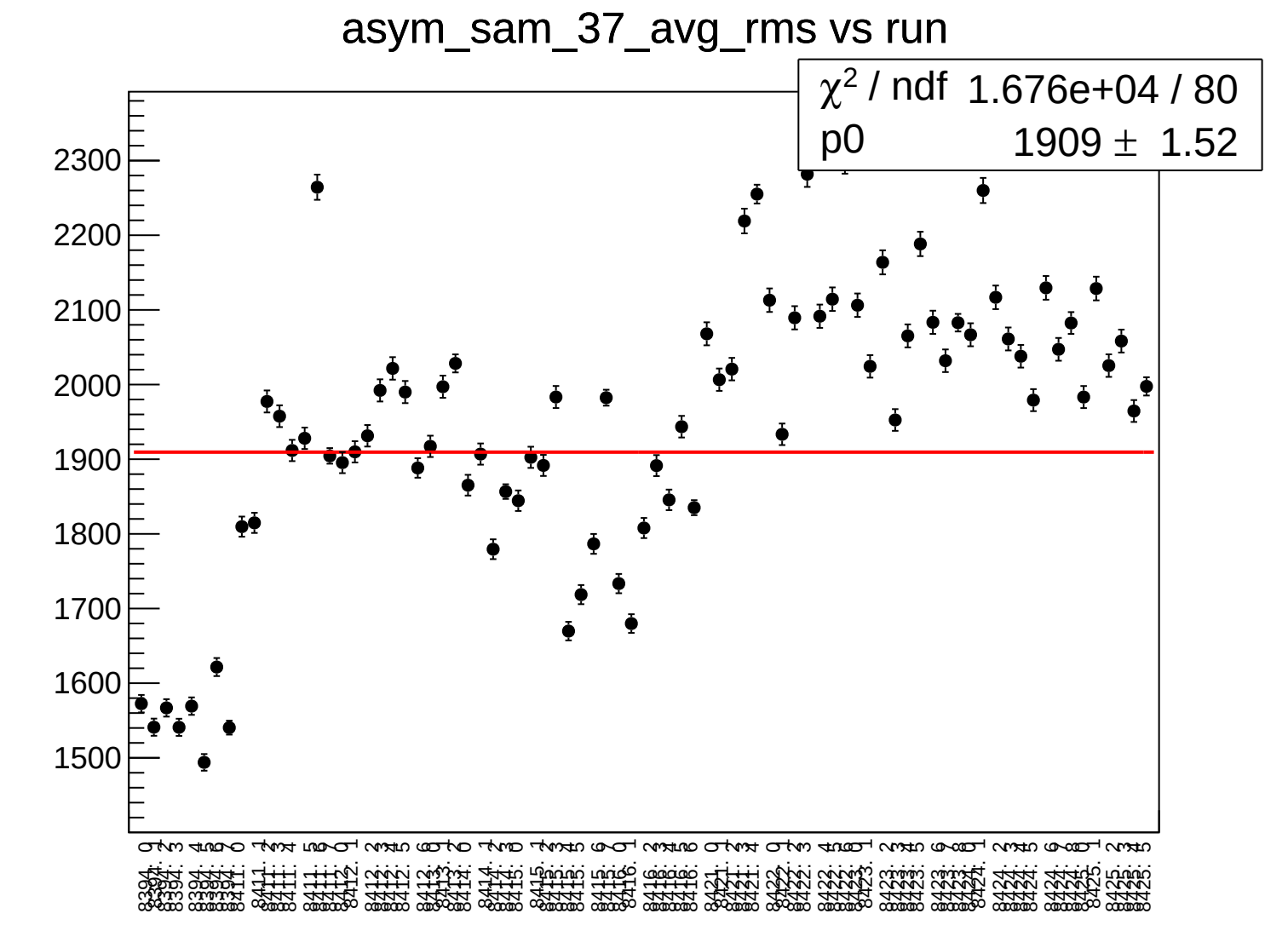

asym_sam_37_avg_correction_mean vs run
χ² / ndf 69.19 / 80
p0 −8614 ± 2143
pull
Entries 81
Mean −650.6
Std Dev 689.7

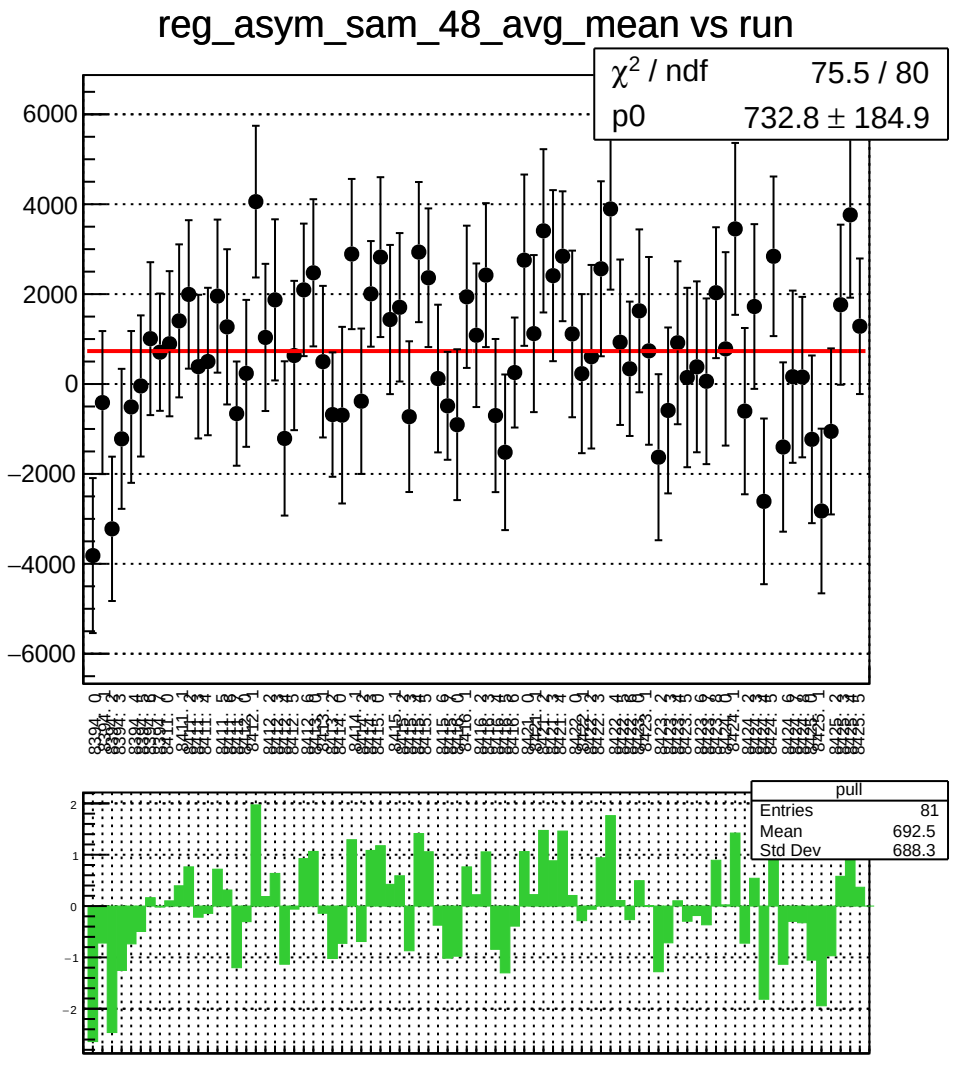

pull1D
Entries 81
Mean 0.003704
Std Dev 0.9242

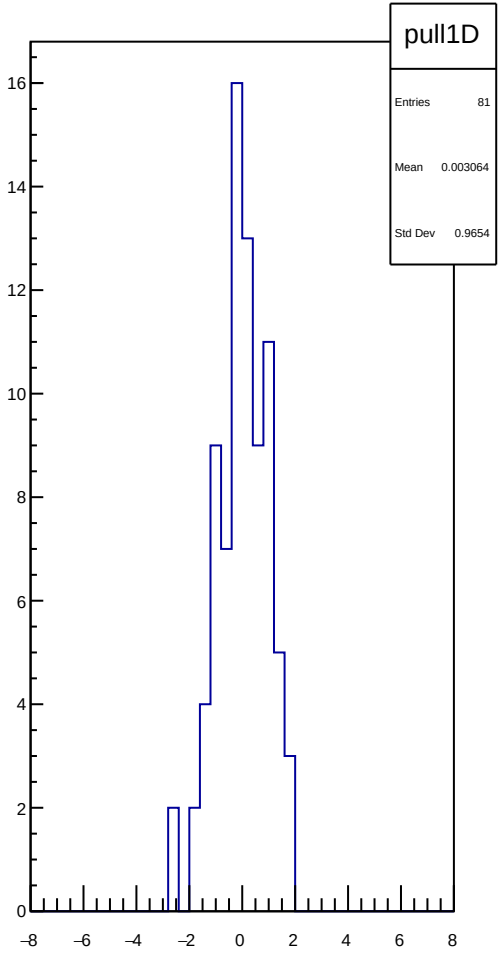

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1.676e+04 / 80
p0 1903 ± 1.515
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

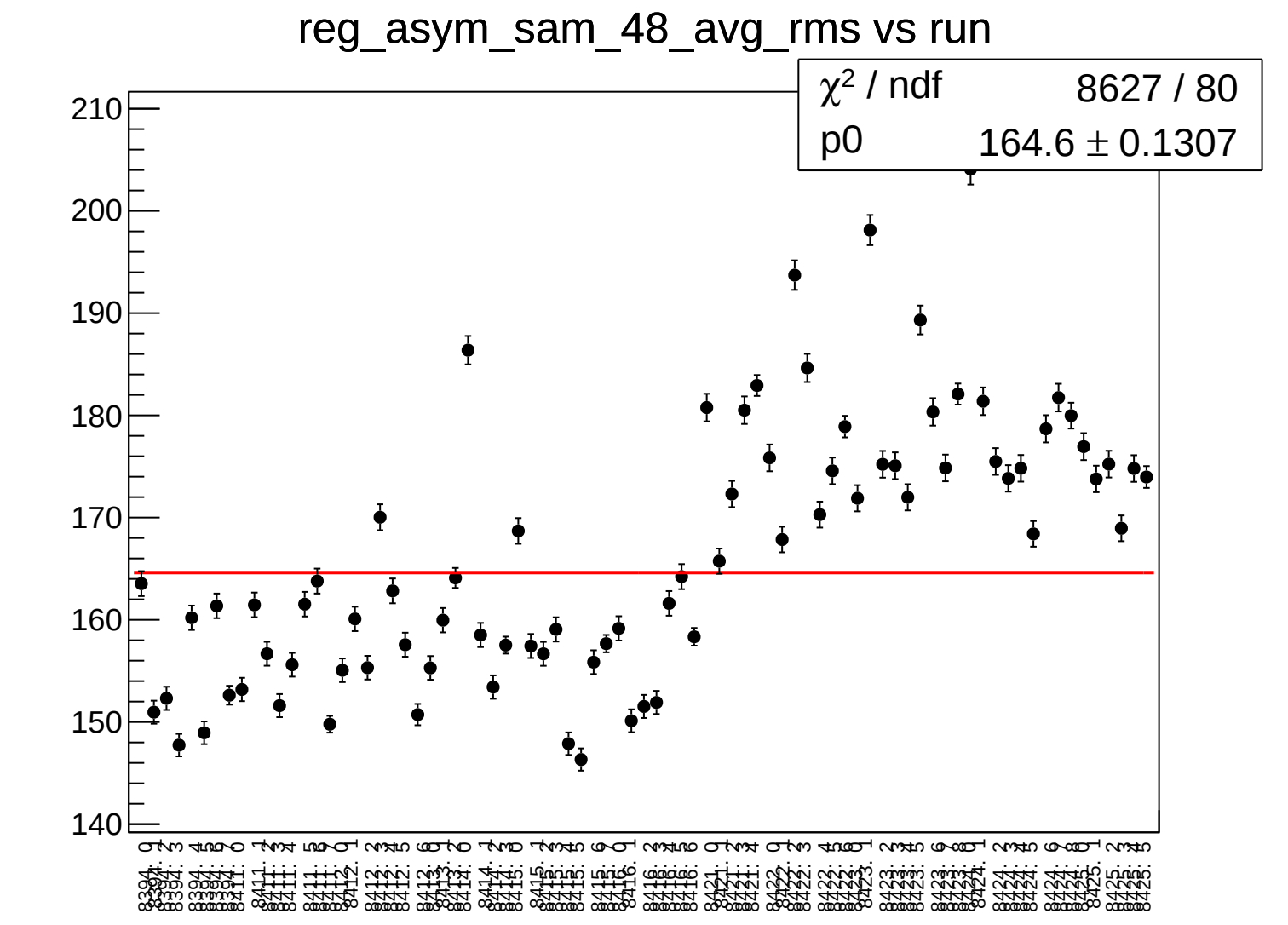

asym_sam_37_avg_mean vs run
χ² / ndf 68.79 / 80
p0 8960 ± 2150
pull
Entries 81
Mean −1915
Std Dev 1953

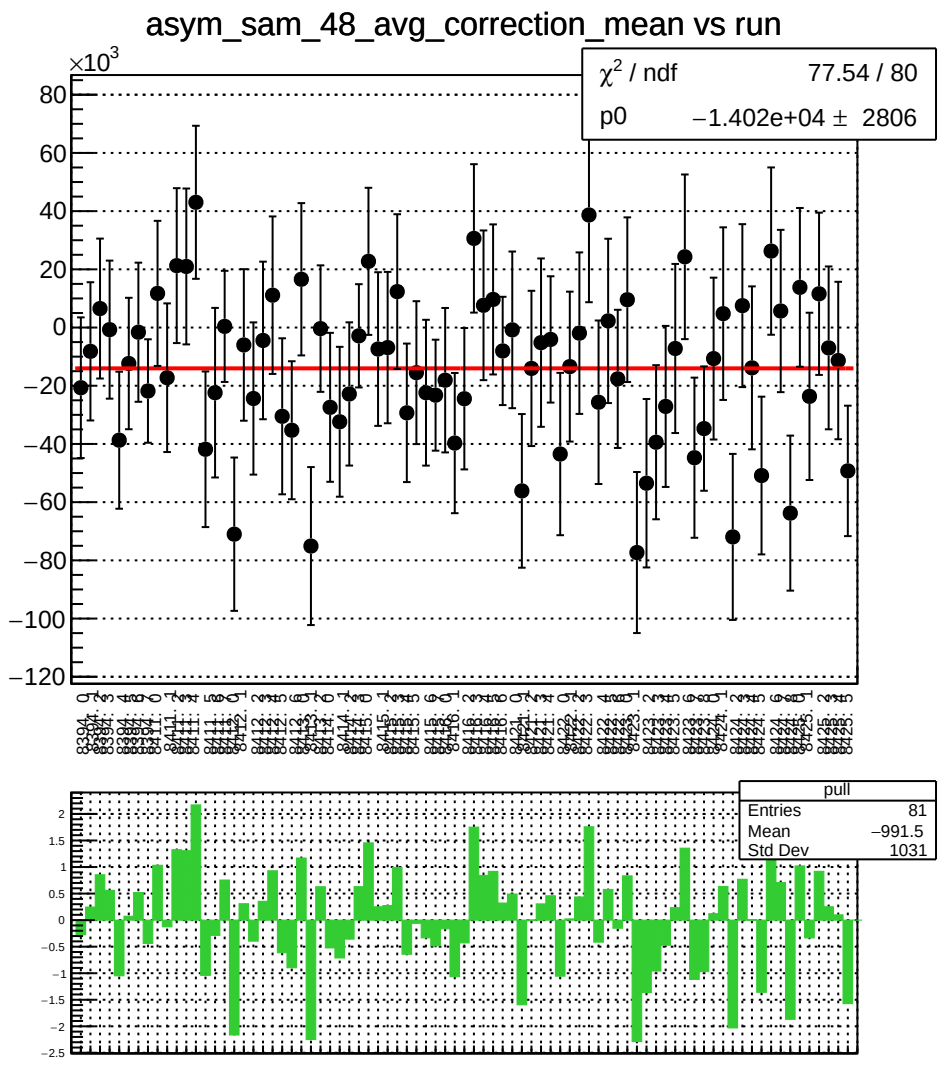

pull1D
Entries 81
Mean −0.001417
Std Dev 0.9215

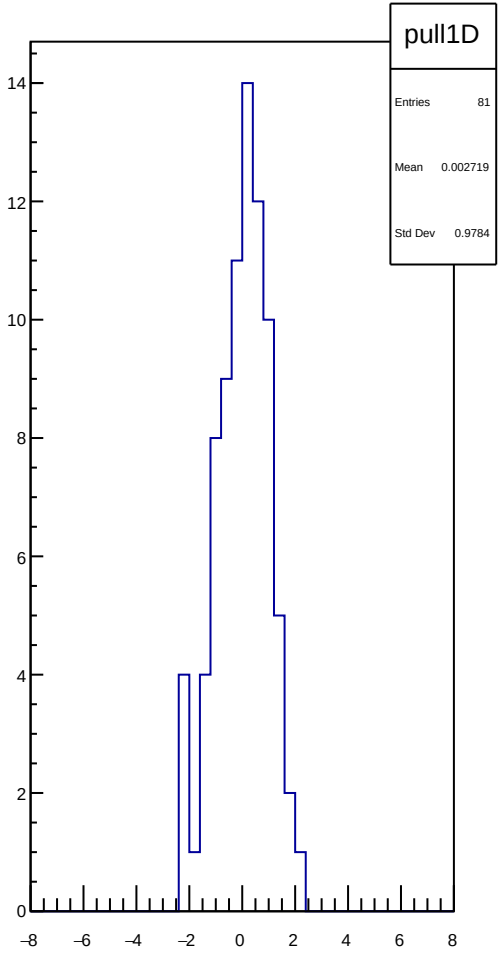

asym_sam_37_avg_rms vs run
χ² / ndf 1.676e+04 / 80
p0 1909 ± 1.52
2300
2200
2100
2000
1900
1800
1700
1600
1500

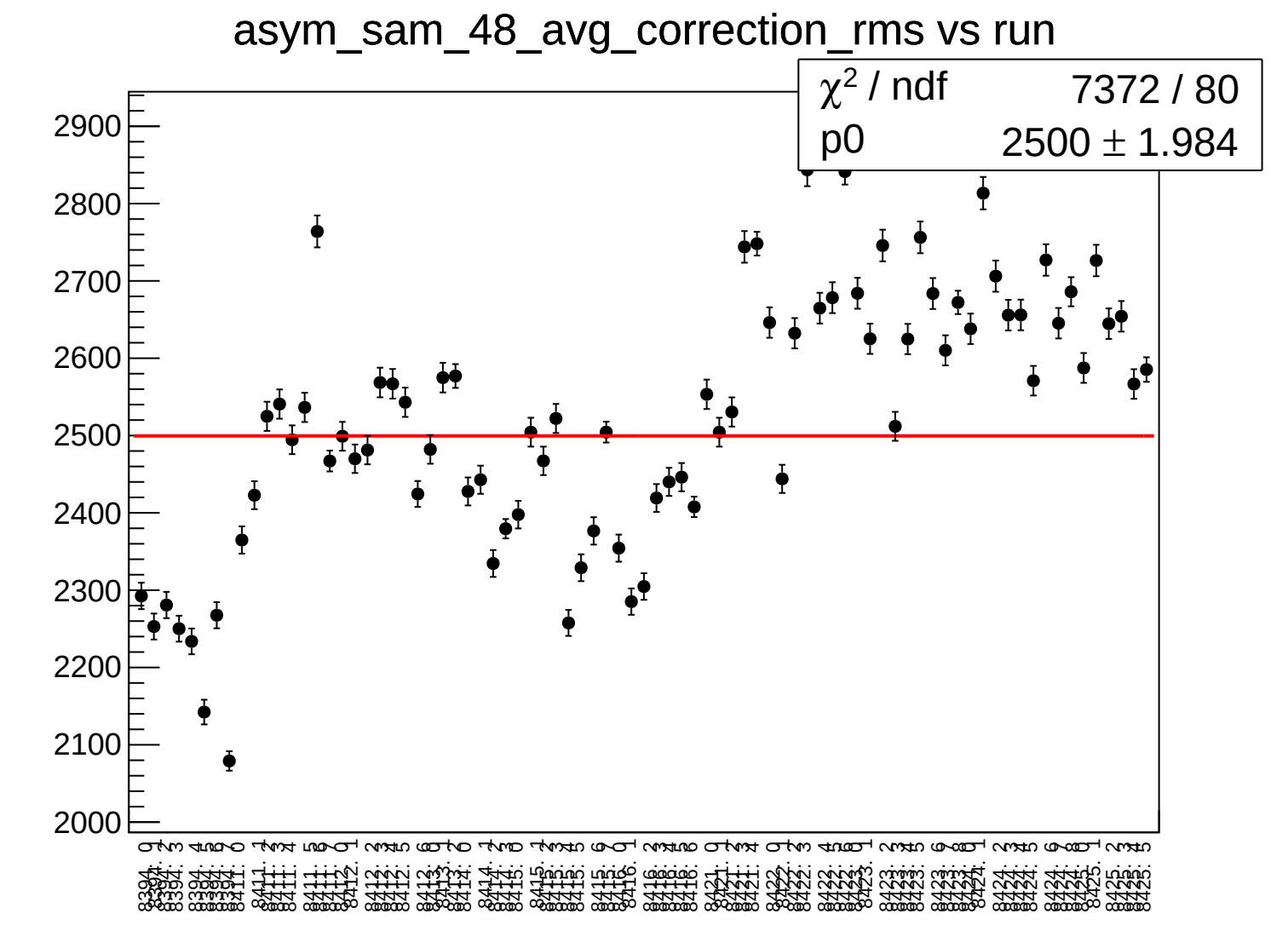

reg_asym_sam_48_avg_mean vs run
χ^2 / ndf 75.5 / 80
p0 732.8 ± 184.9
pull
Entries 81
Mean 692.5
Std Dev 688.3

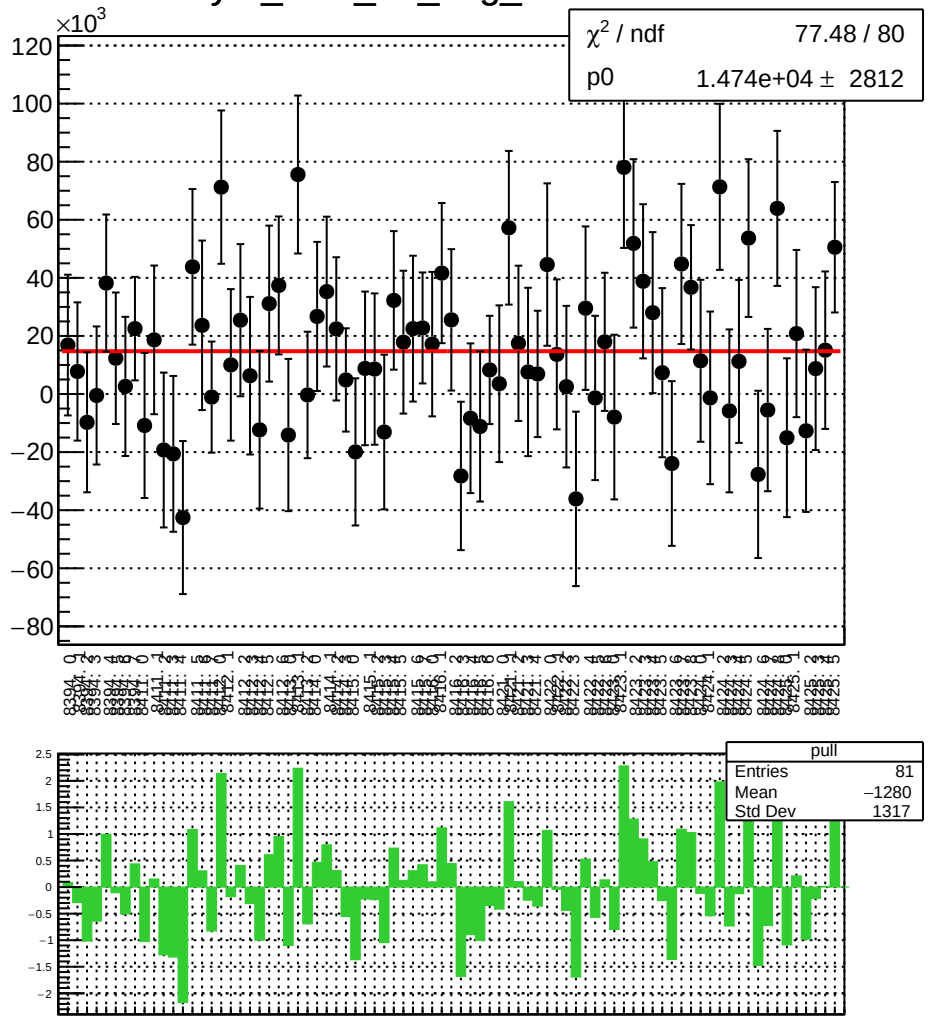

pull1D
Entries 81
Mean 0.003064
Std Dev 0.9654

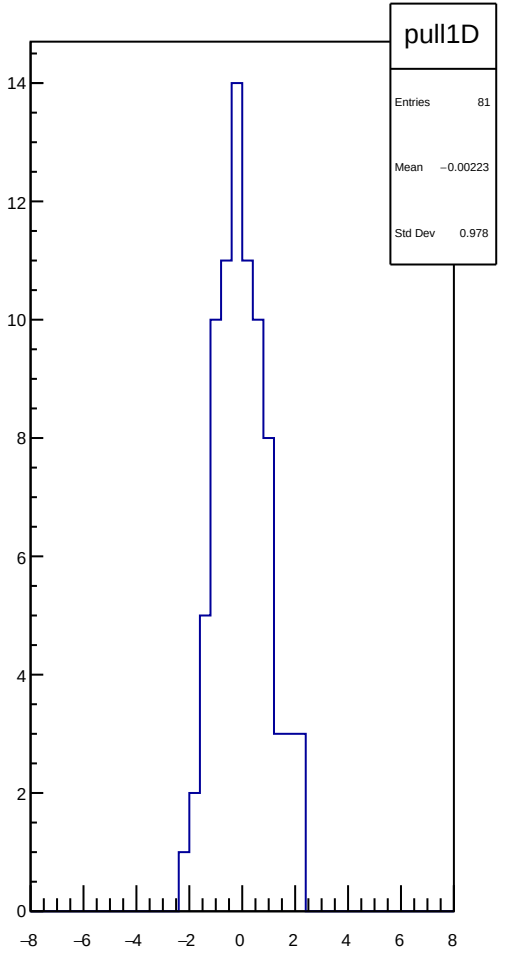

reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 8627 / 80
p0 164.6 ± 0.1307
210
200
190
180
170
160
150
140

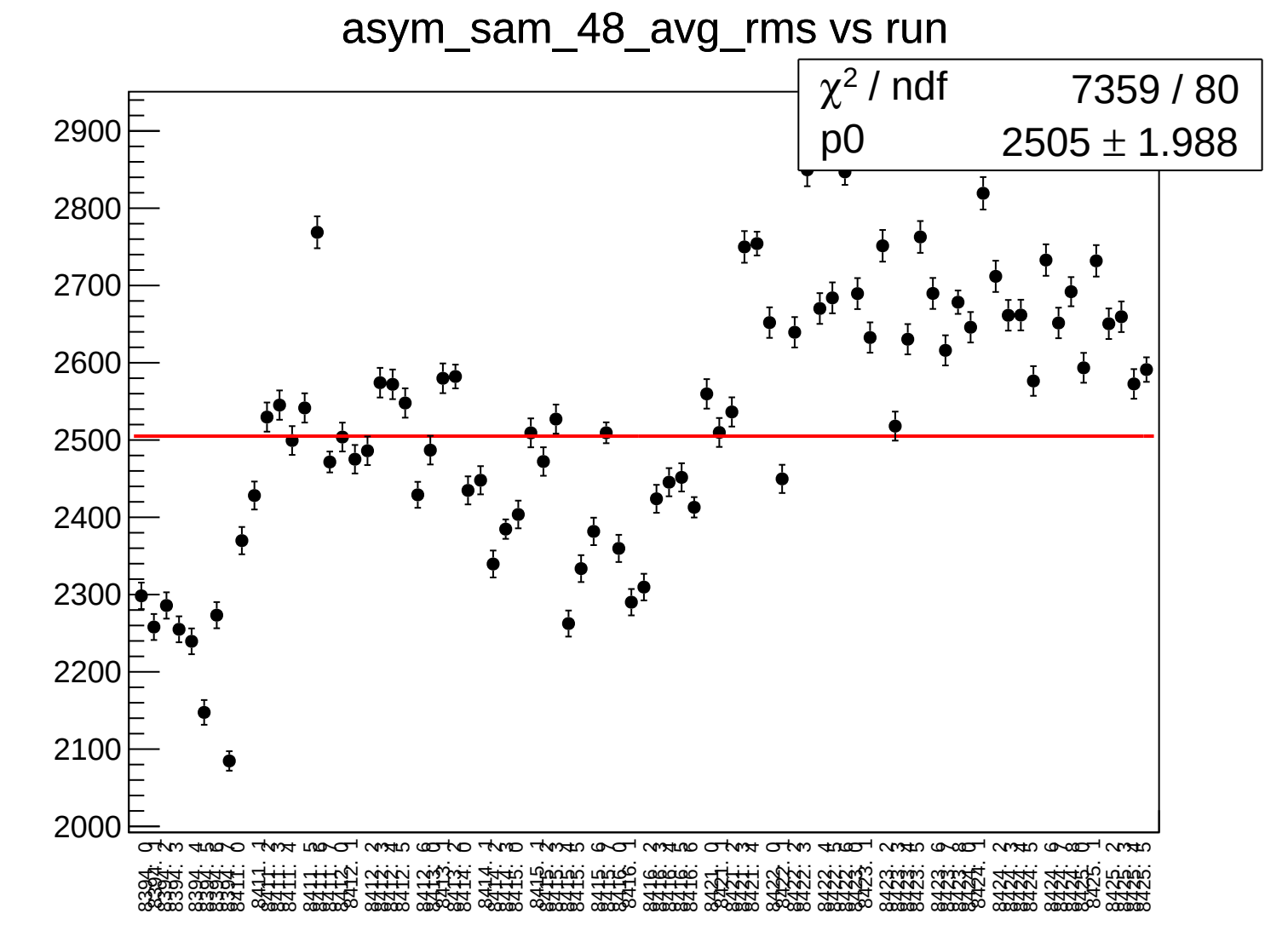

asym_sam_48_avg_correction_mean vs run
×10^3
χ² / ndf 77.54 / 80
p0 −1.402e+04 ± 2806
pull
Entries 81
Mean −991.5
Std Dev 1031

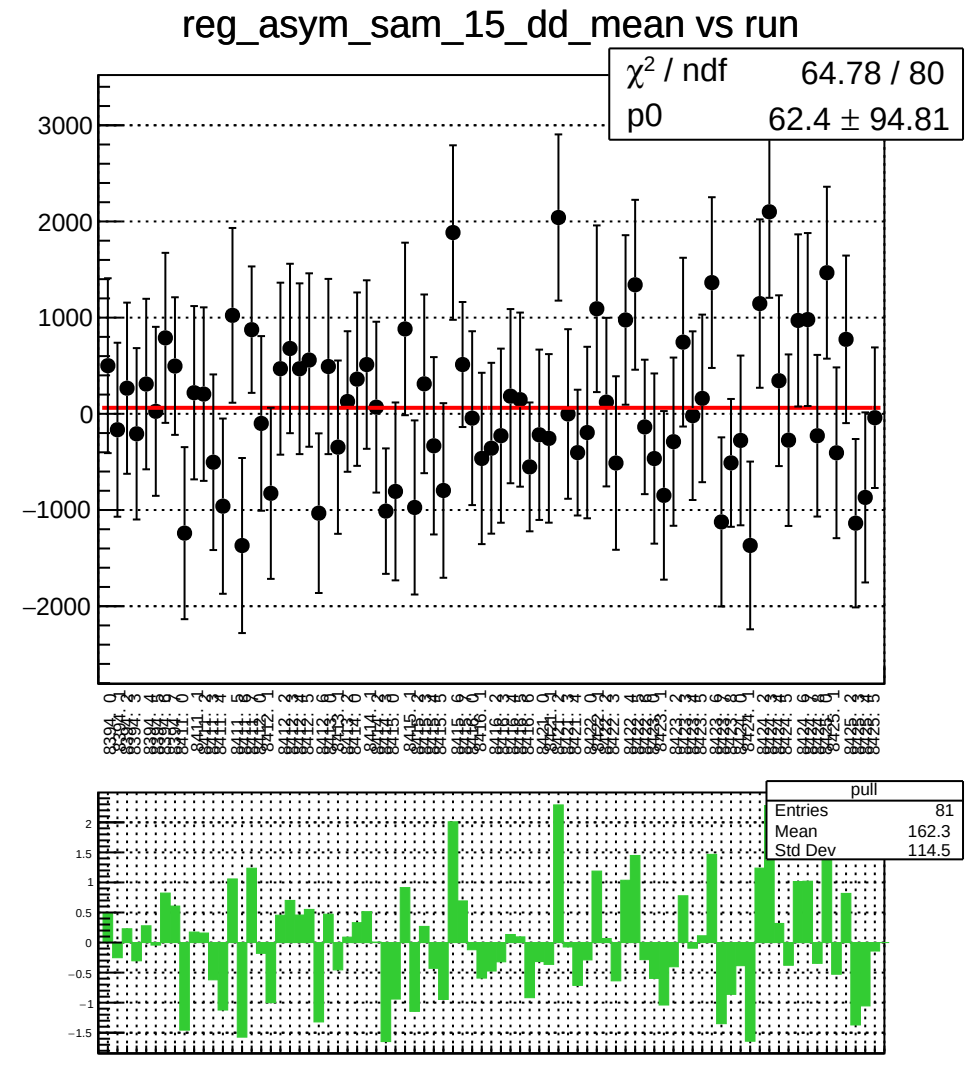

pull1D
Entries 81
Mean 0.002719
Std Dev 0.9784

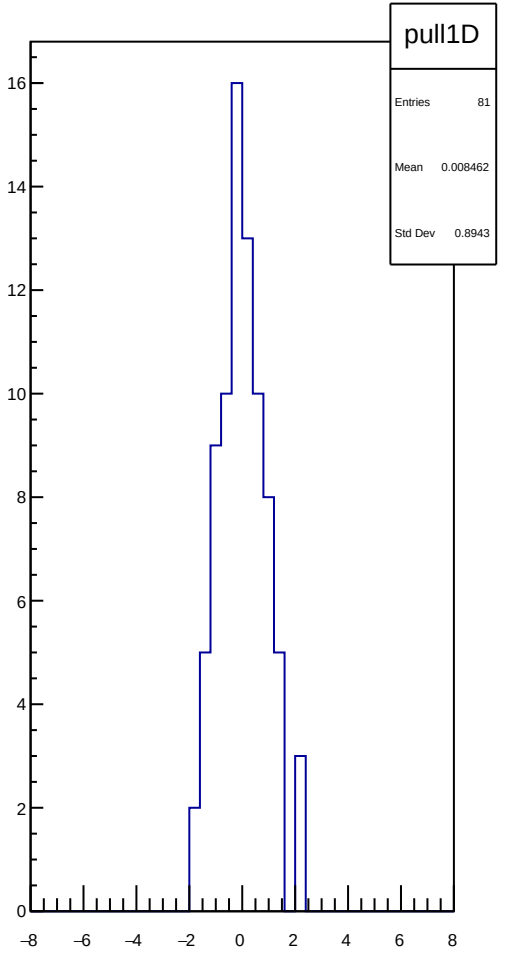

asym_sam_48_avg_correction_rms vs run
χ² / ndf 7372 / 80
p0 2500 ± 1.984
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

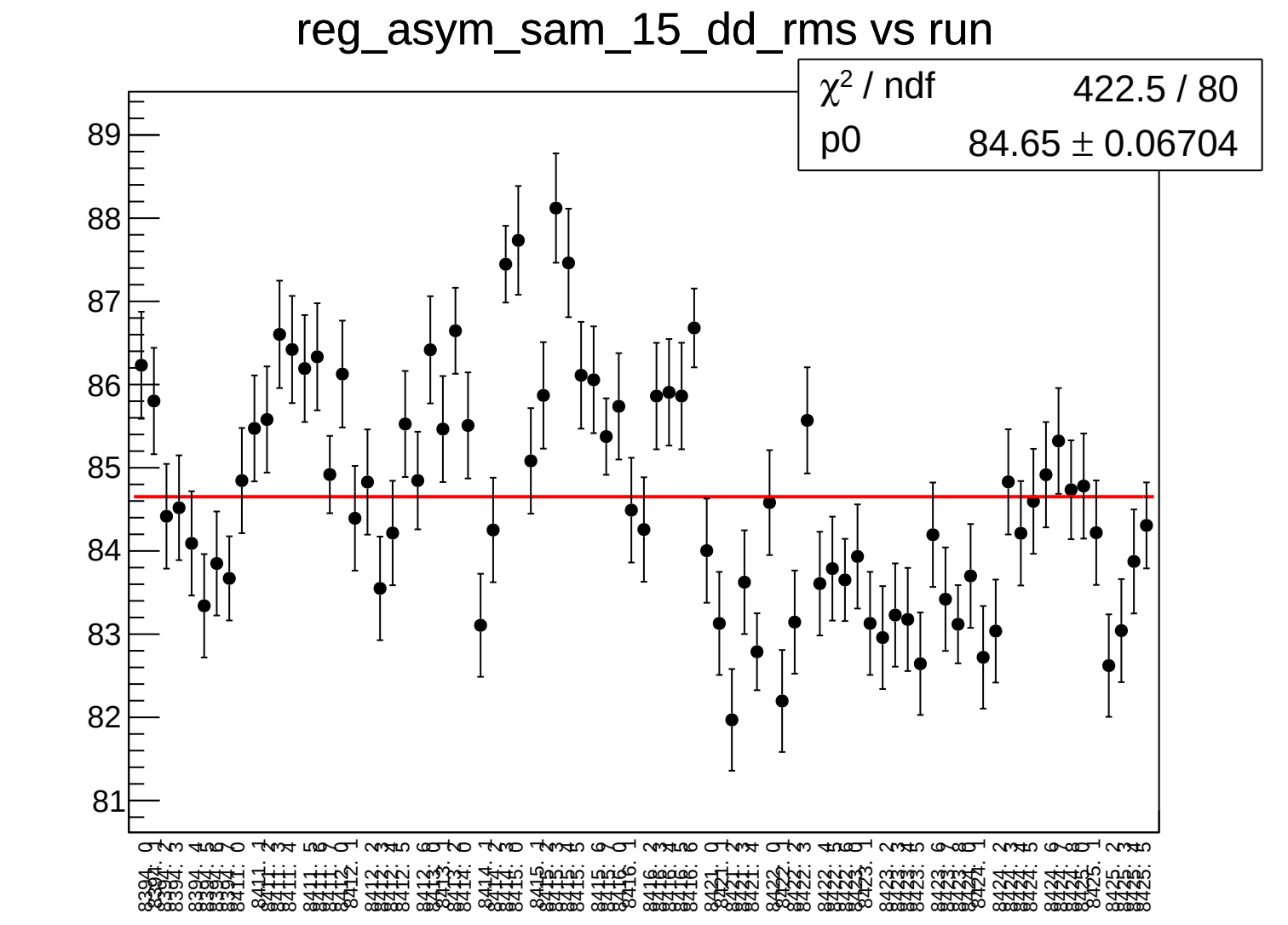

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 77.48 / 80
p0 1.474e+04 ± 2812
pull
Entries 81
Mean −1280
Std Dev 1317

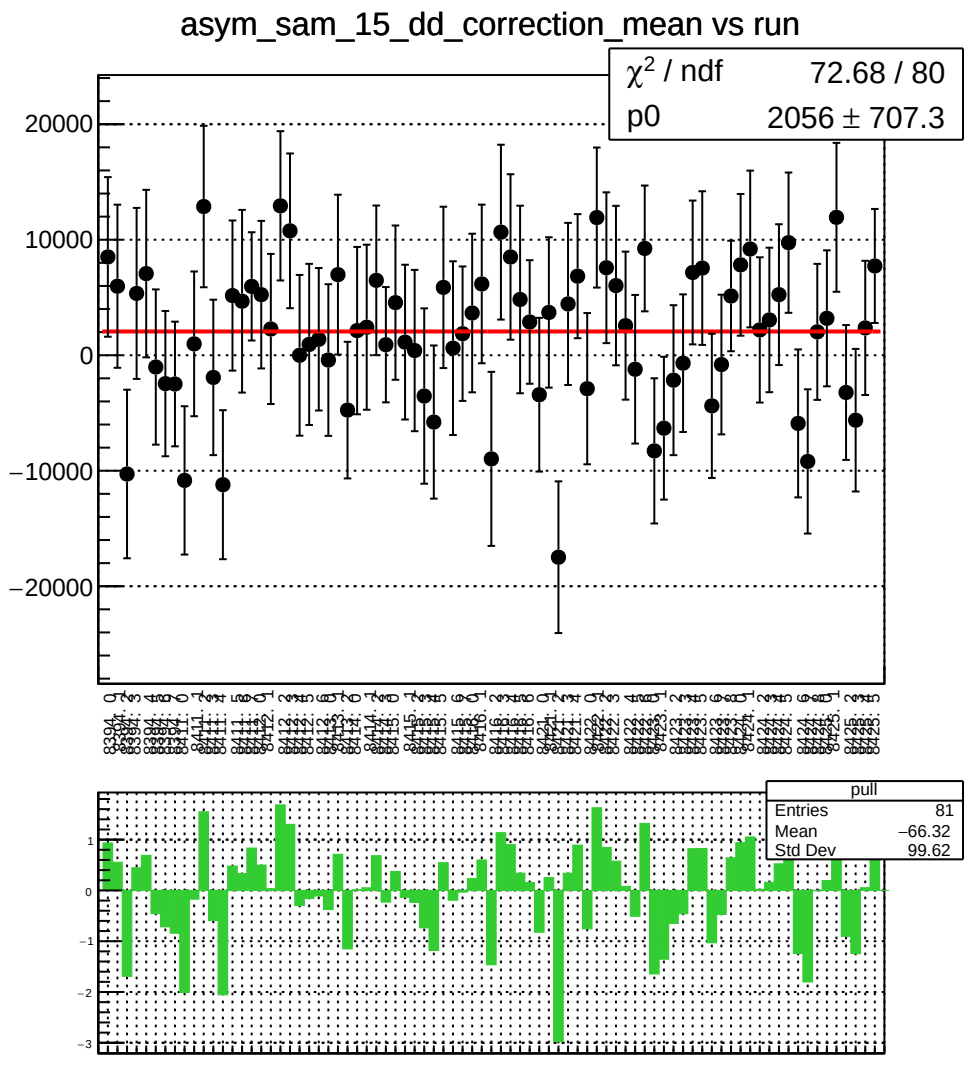

pull1D
Entries 81
Mean −0.00223
Std Dev 0.978

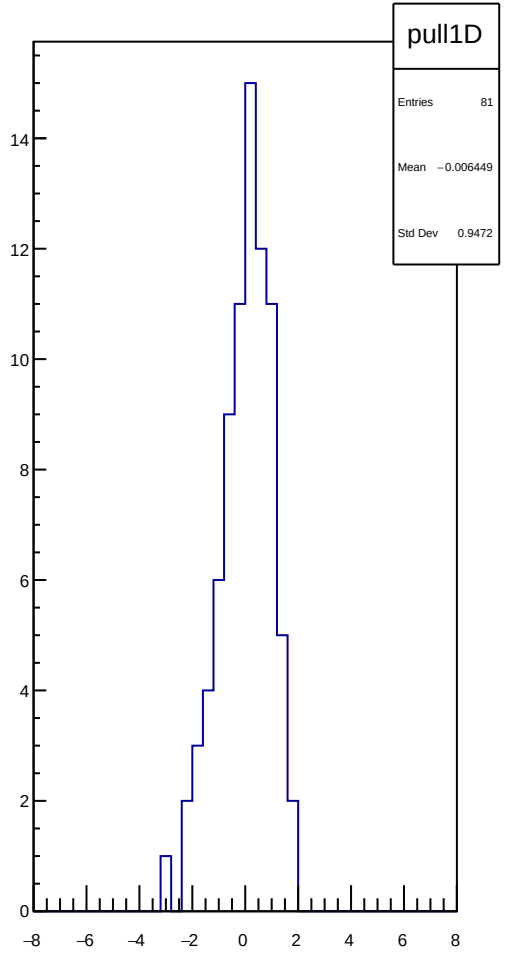

asym_sam_48_avg_rms vs run
χ² / ndf 7359 / 80
p0 2505 ± 1.988
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

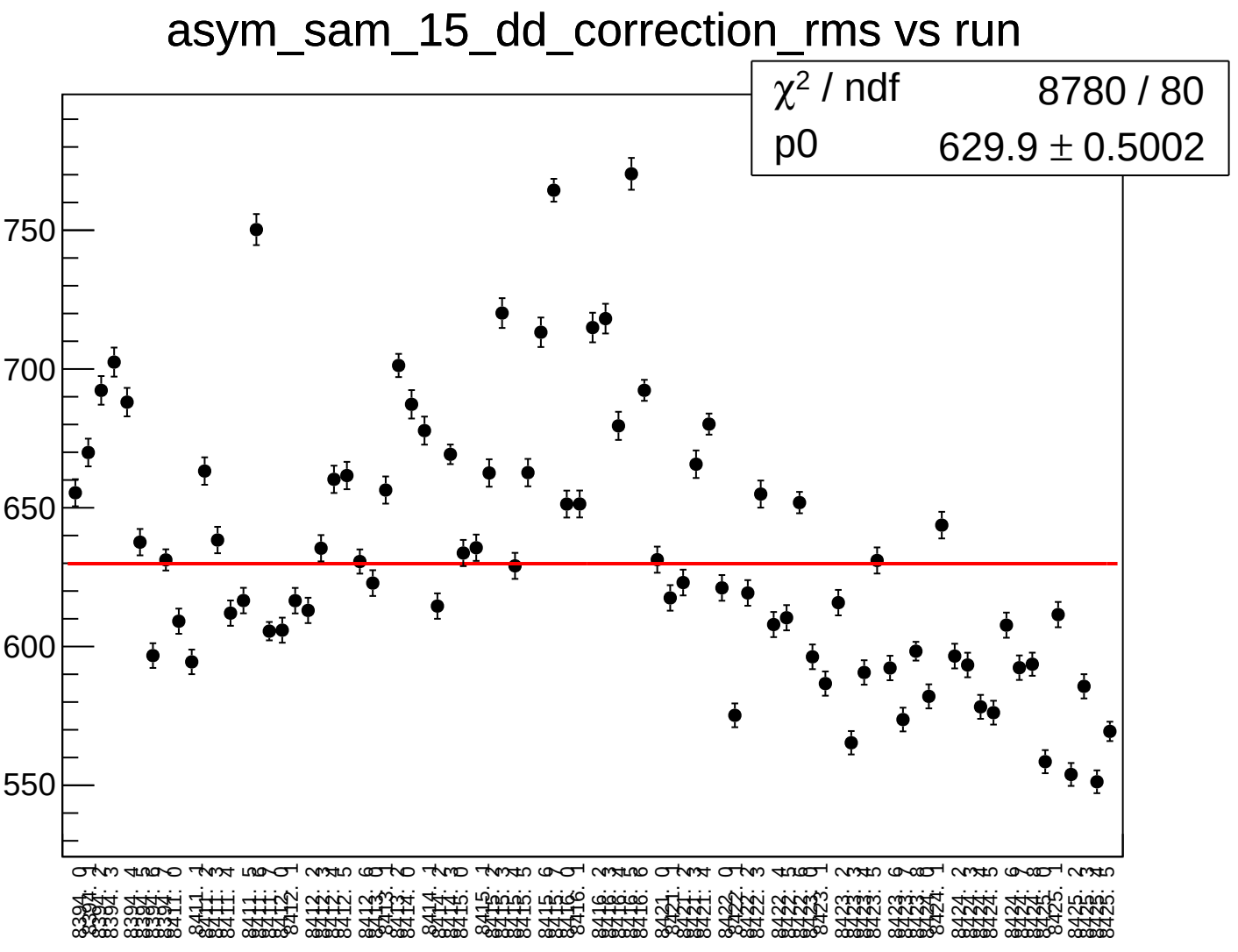

reg_asym_sam_15_dd_mean vs run
χ² / ndf 64.78 / 80
p0 62.4 ± 94.81
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 162.3
Std Dev 114.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

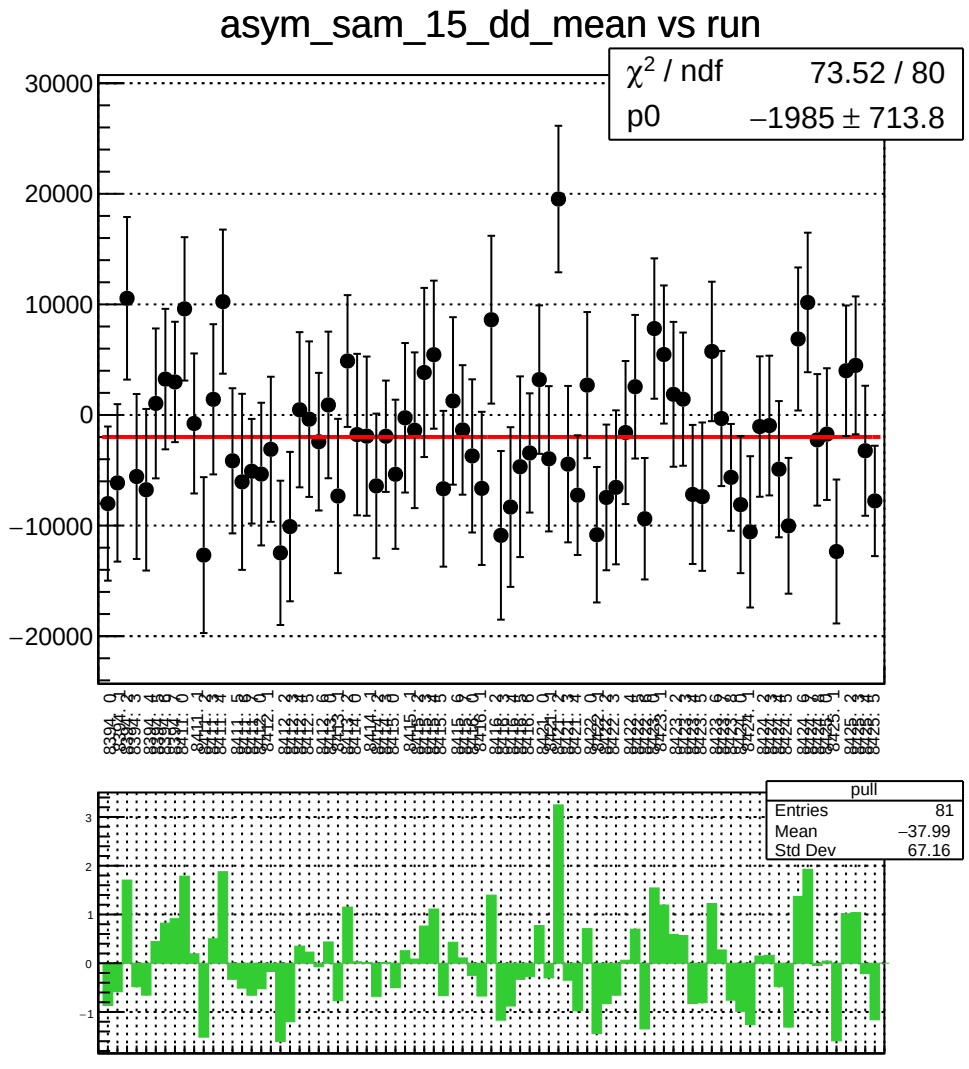

pull1D
Entries 81
Mean 0.008462
Std Dev 0.8943
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

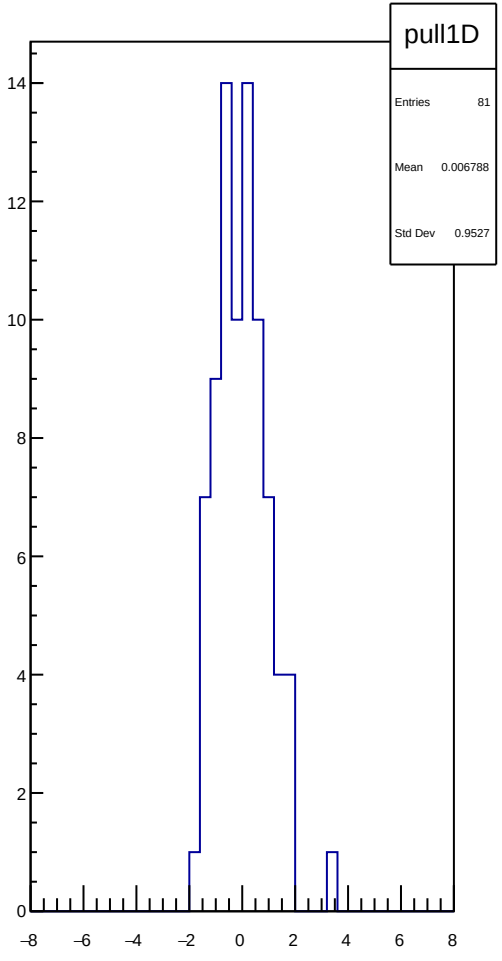

reg_asym_sam_15_dd_rms vs run
χ² / ndf 422.5 / 80
p0 84.65 ± 0.06704
89
88
87
86
85
84
83
82
81

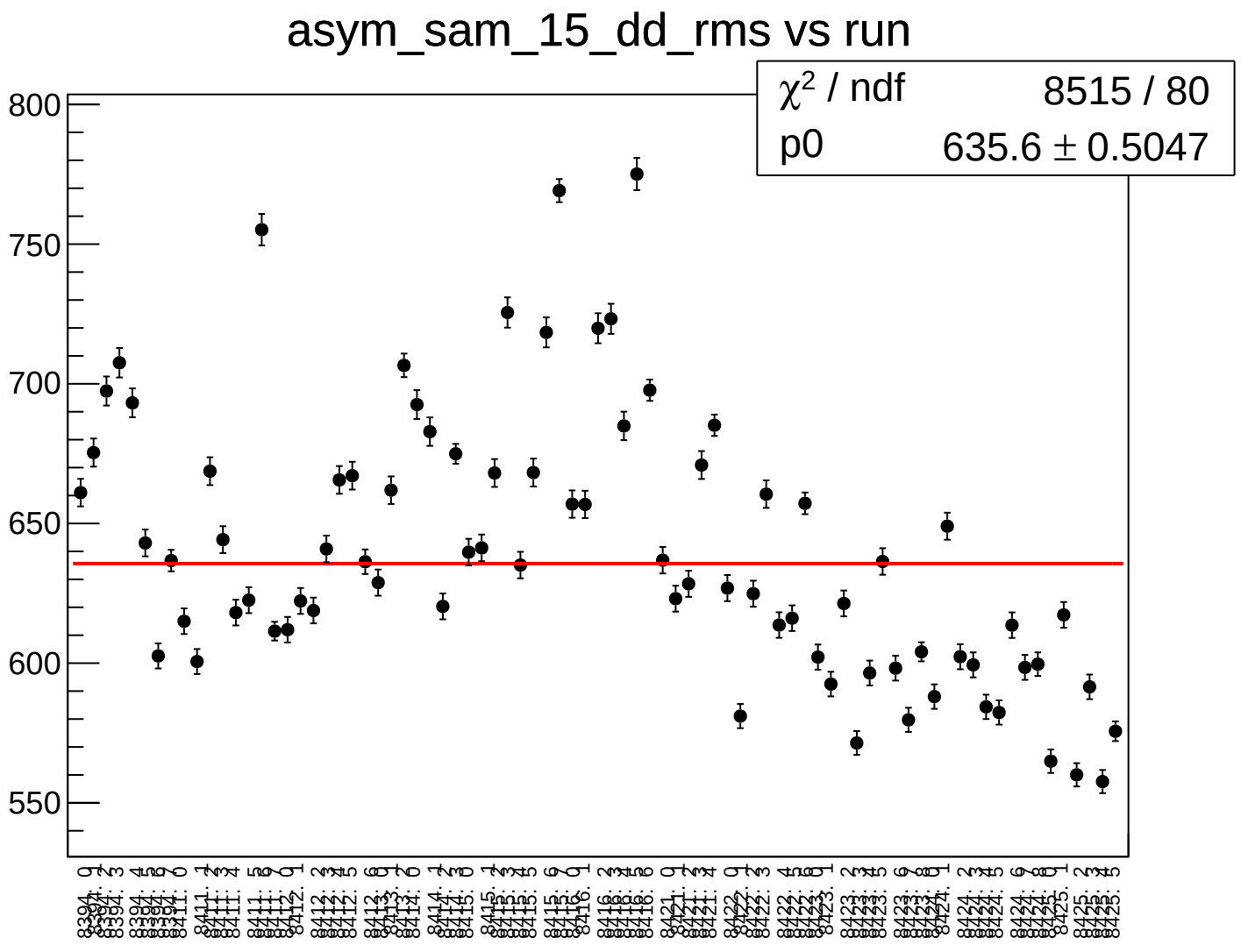

asym_sam_15_dd_correction_mean vs run
χ² / ndf 72.68 / 80
p0 2056 ± 707.3
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −66.32
Std Dev 99.62
1
0
−1
−2
−3

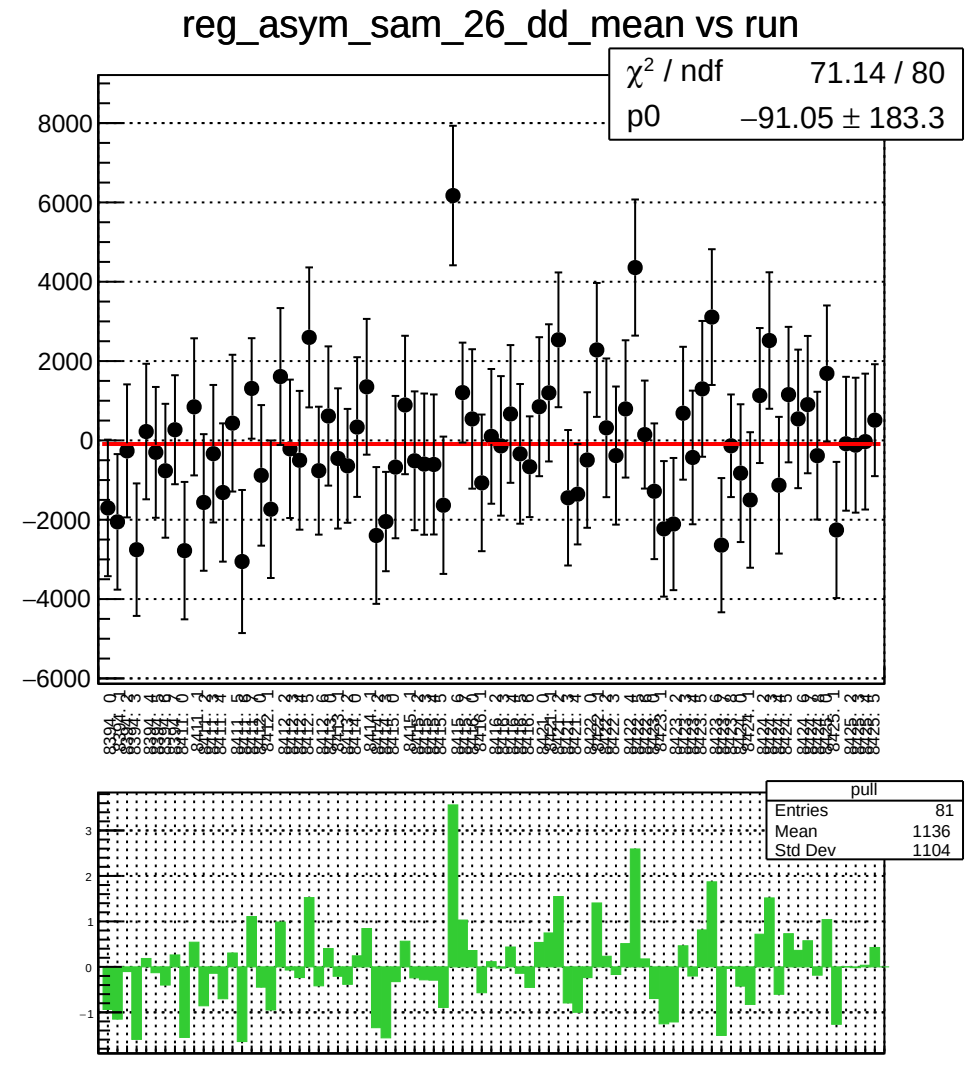

pull1D
Entries 81
Mean −0.006449
Std Dev 0.9472
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

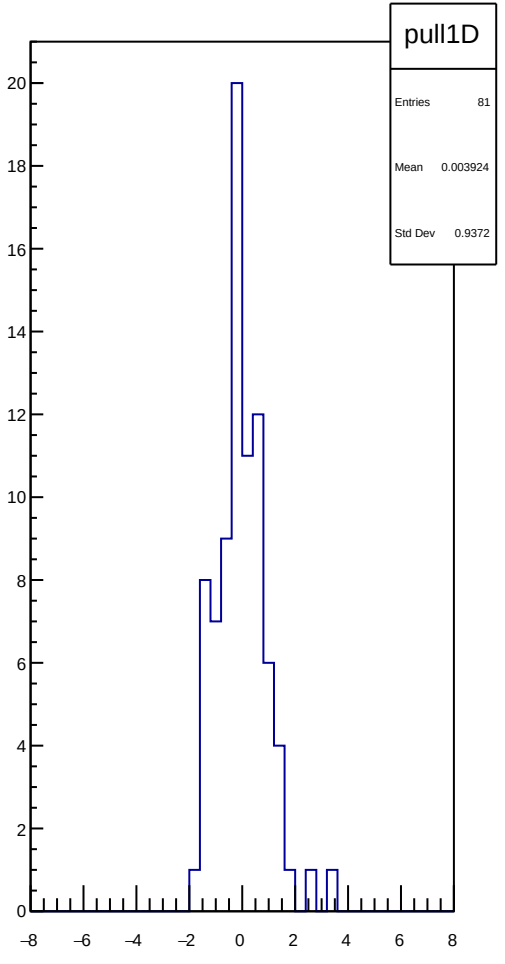

asym_sam_15_dd_correction_rms vs run
χ² / ndf 8780 / 80
p0 629.9 ± 0.5002
750
700
650
600
550

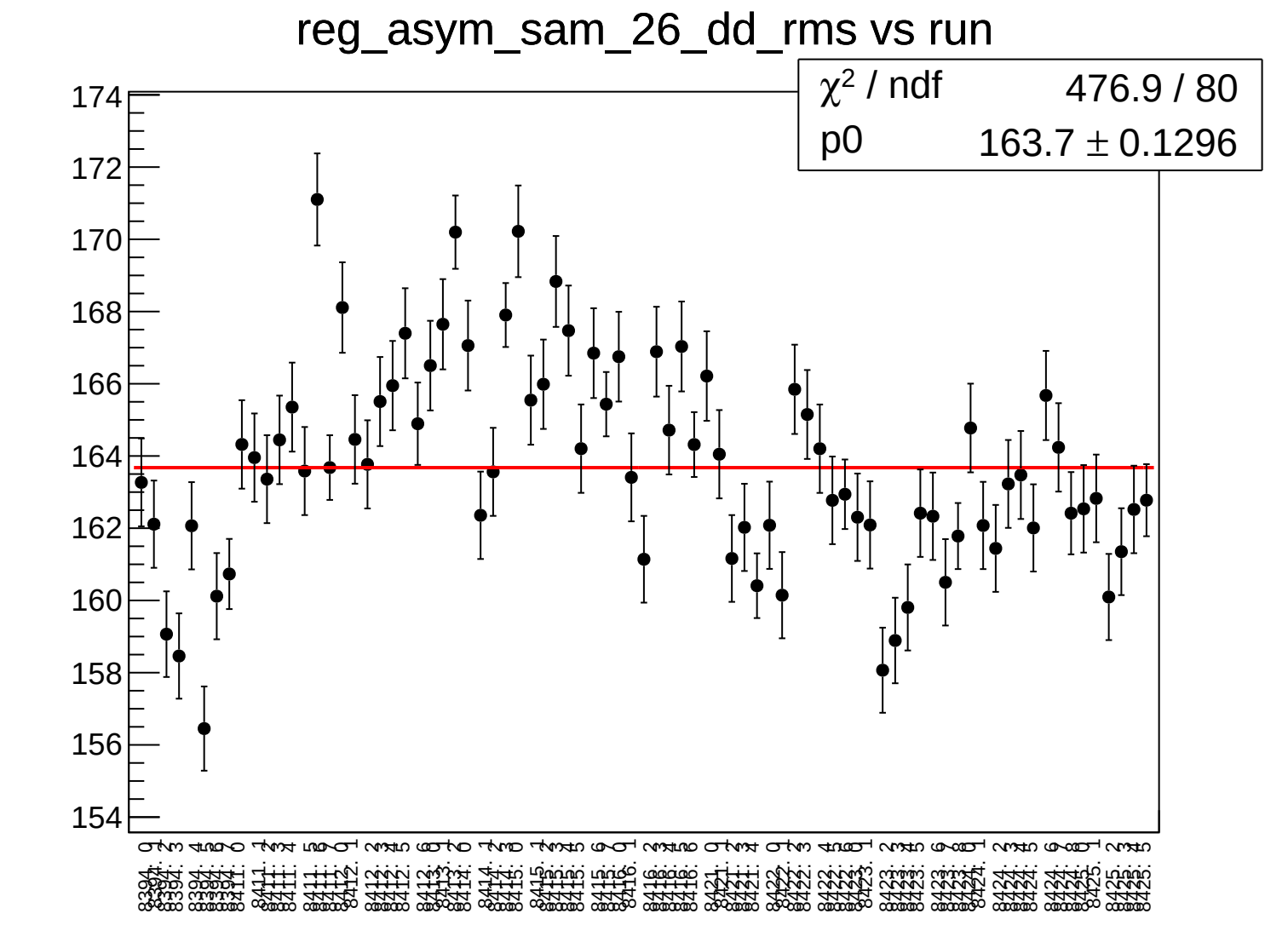

asym_sam_15_dd_mean vs run
χ² / ndf 73.52 / 80
p0 −1985 ± 713.8
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −37.99
Std Dev 67.16
3
2
1
0
−1

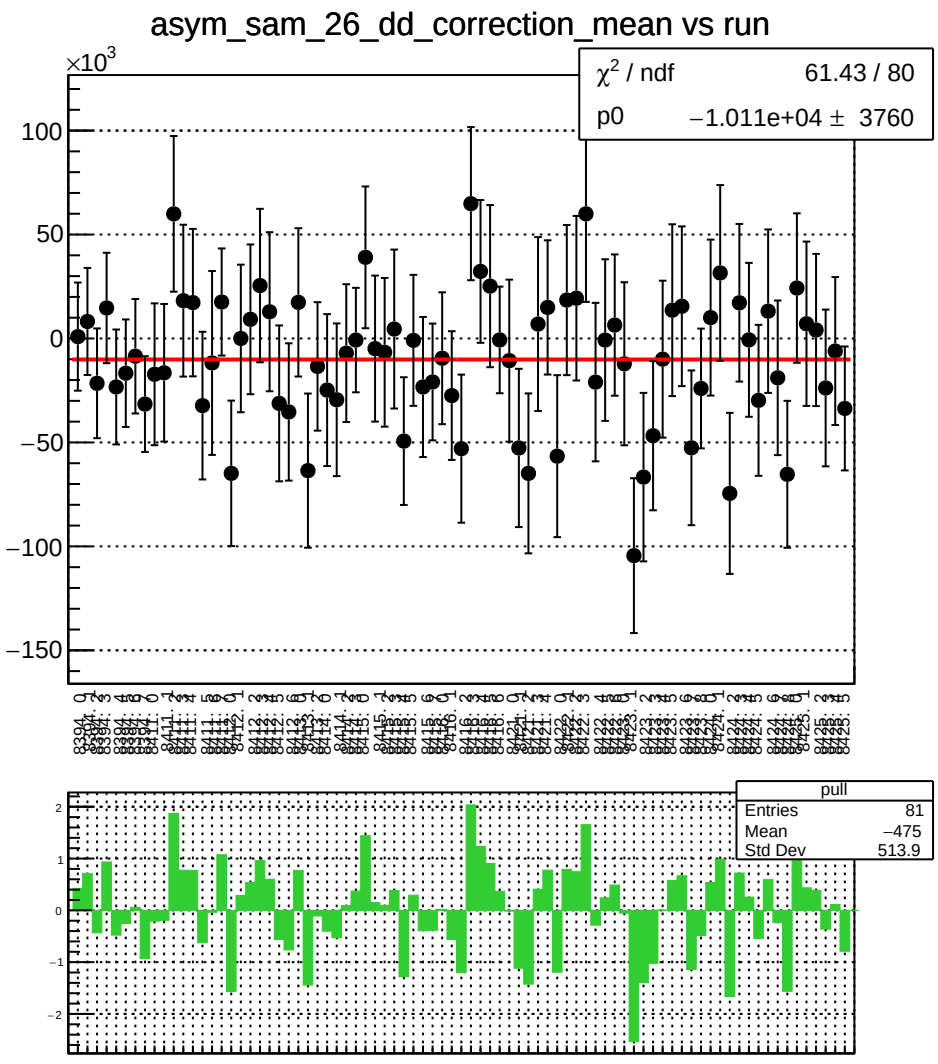

pull1D
Entries 81
Mean 0.006788
Std Dev 0.9527
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

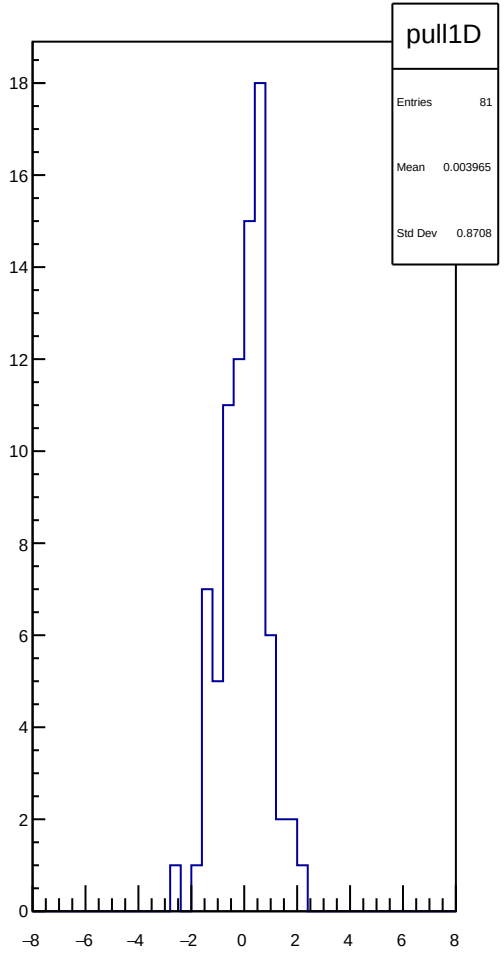

asym_sam_15_dd_rms vs run
χ^2 / ndf 8515 / 80
p0 635.6 ± 0.5047
800
750
700
650
600
550

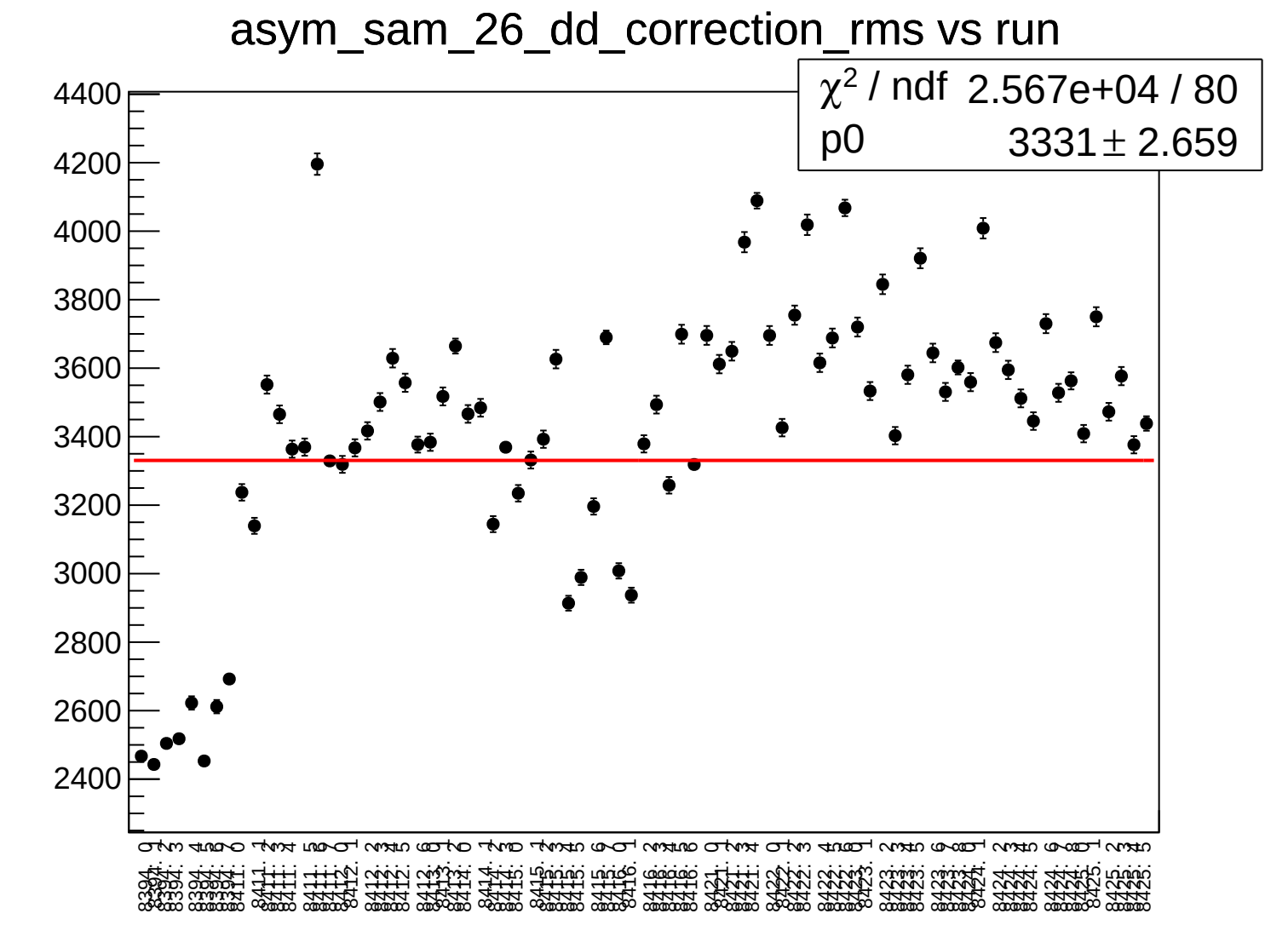

reg_asym_sam_26_dd_mean vs run
χ² / ndf 71.14 / 80
p0 −91.05 ± 183.3
pull
Entries 81
Mean 1136
Std Dev 1104

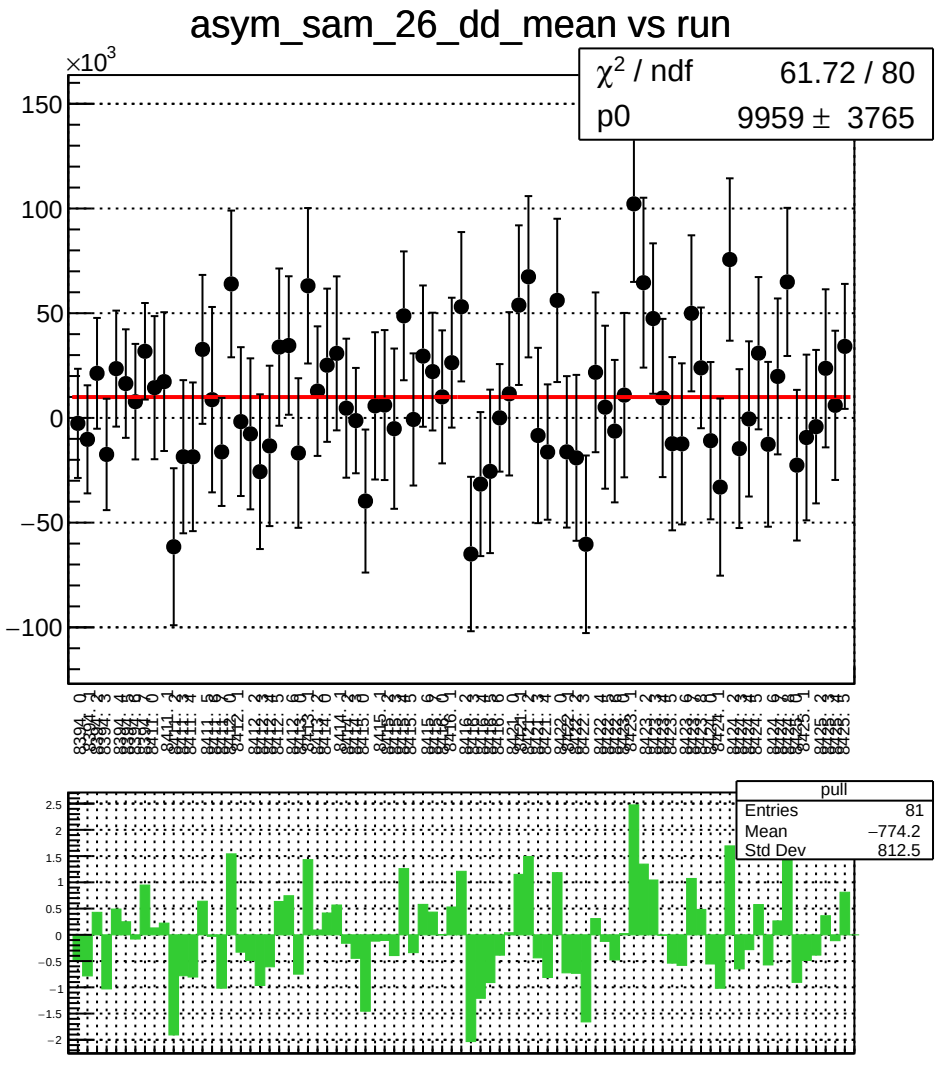

pull1D
Entries 81
Mean 0.003924
Std Dev 0.9372

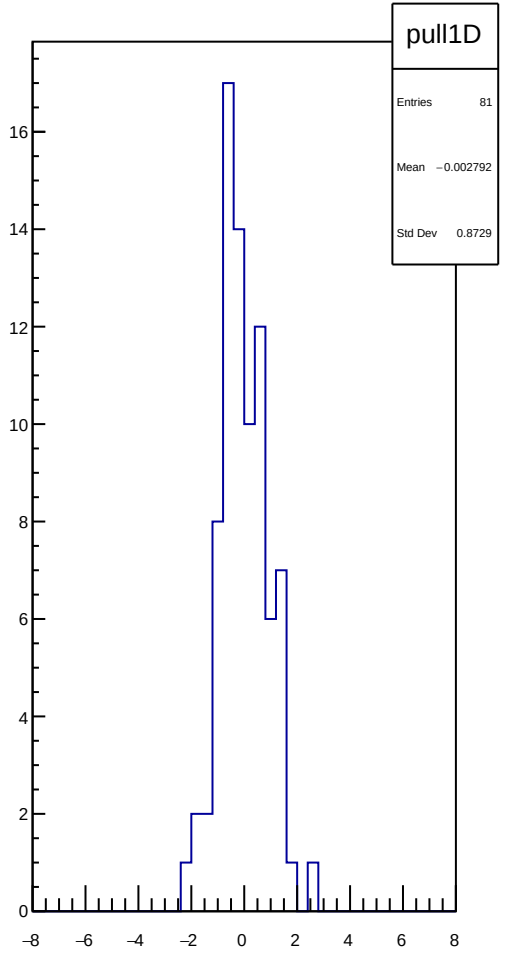

reg_asym_sam_26_dd_rms vs run
χ² / ndf 476.9 / 80
p0 163.7 ± 0.1296
174
172
170
168
166
164
162
160
158
156
154

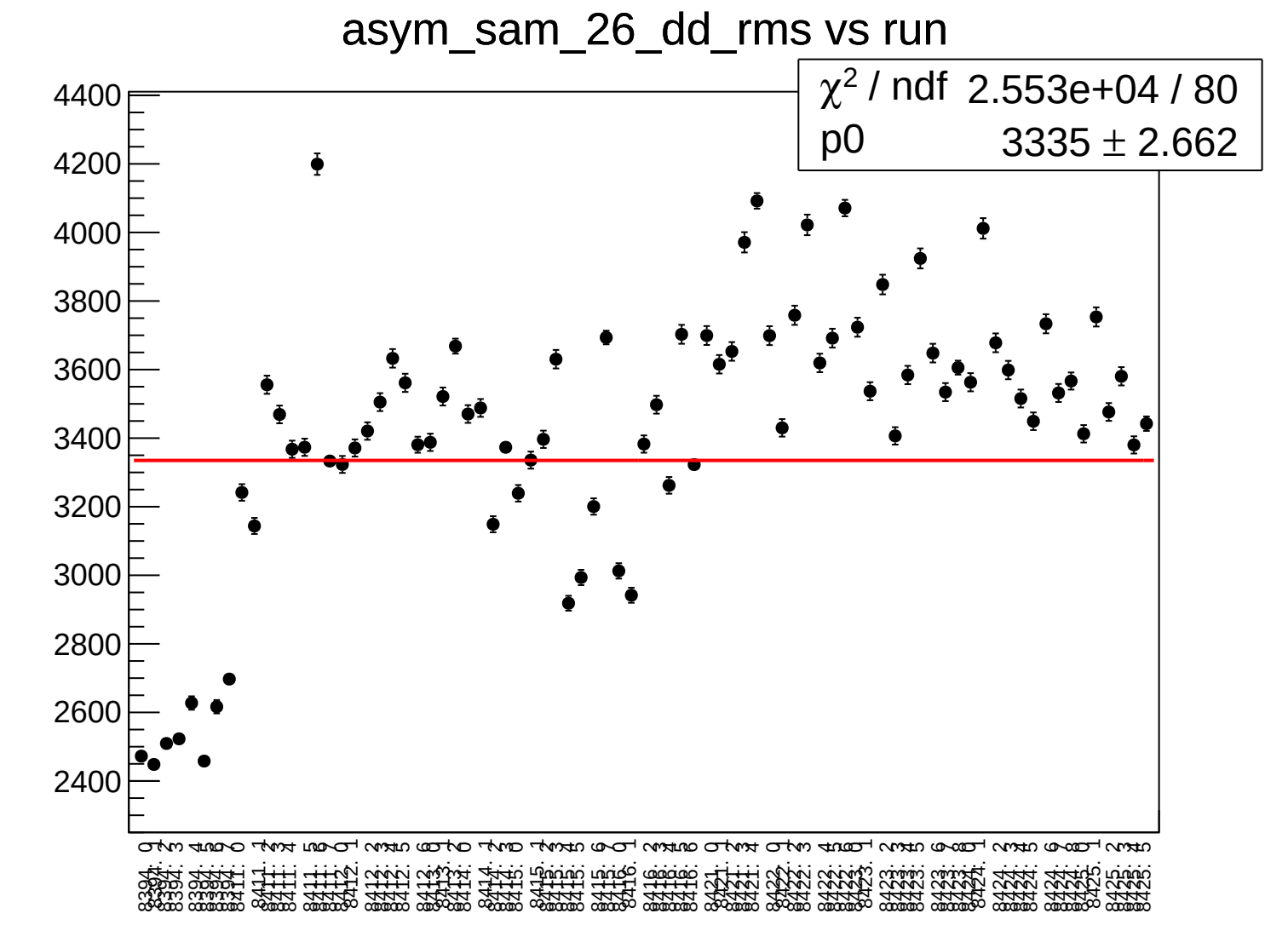

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 61.43 / 80
p0 −1.011e+04 ± 3760
100
50
0
−50
−100
−150
pull
Entries 81
Mean −475
Std Dev 513.9
2
1
0
−1
−2

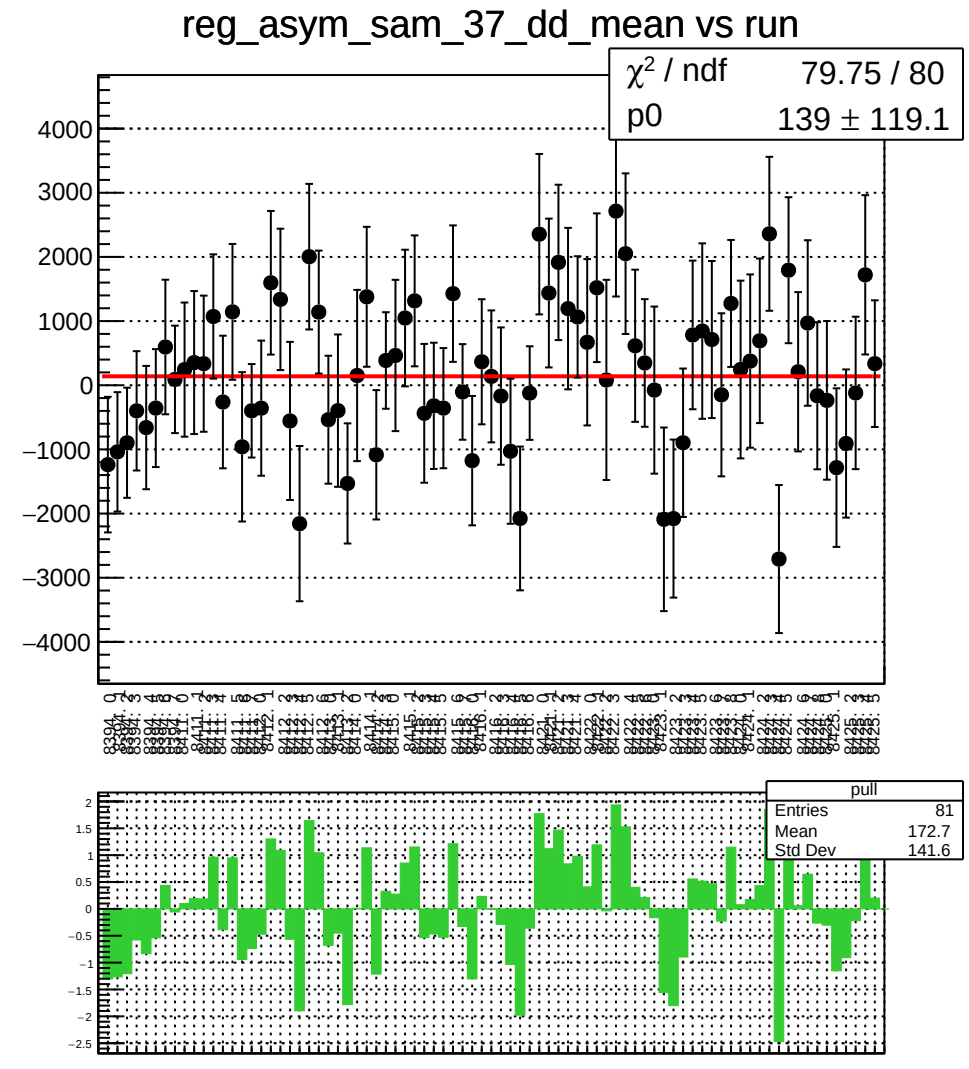

pull1D
Entries 81
Mean 0.003965
Std Dev 0.8708
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

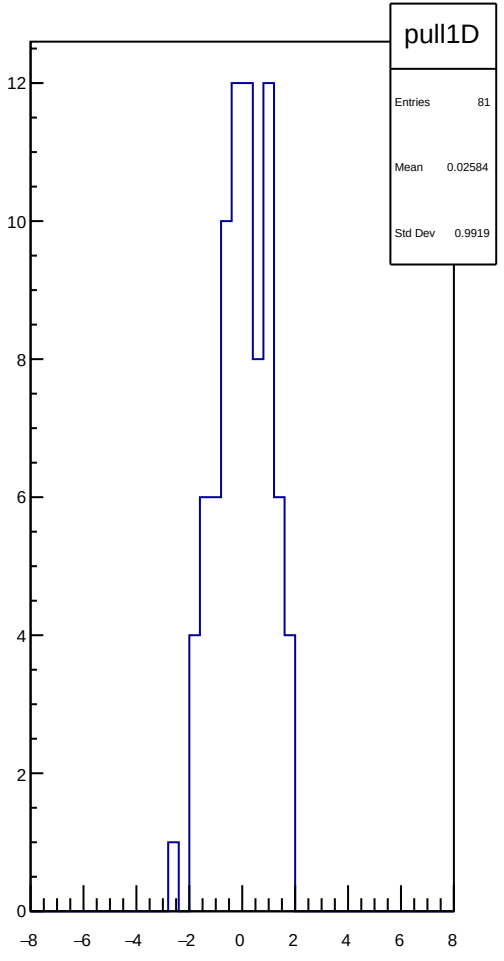

asym_sam_26_dd_correction_rms vs run
χ² / ndf 2.567e+04 / 80
p0 3331 ± 2.659
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

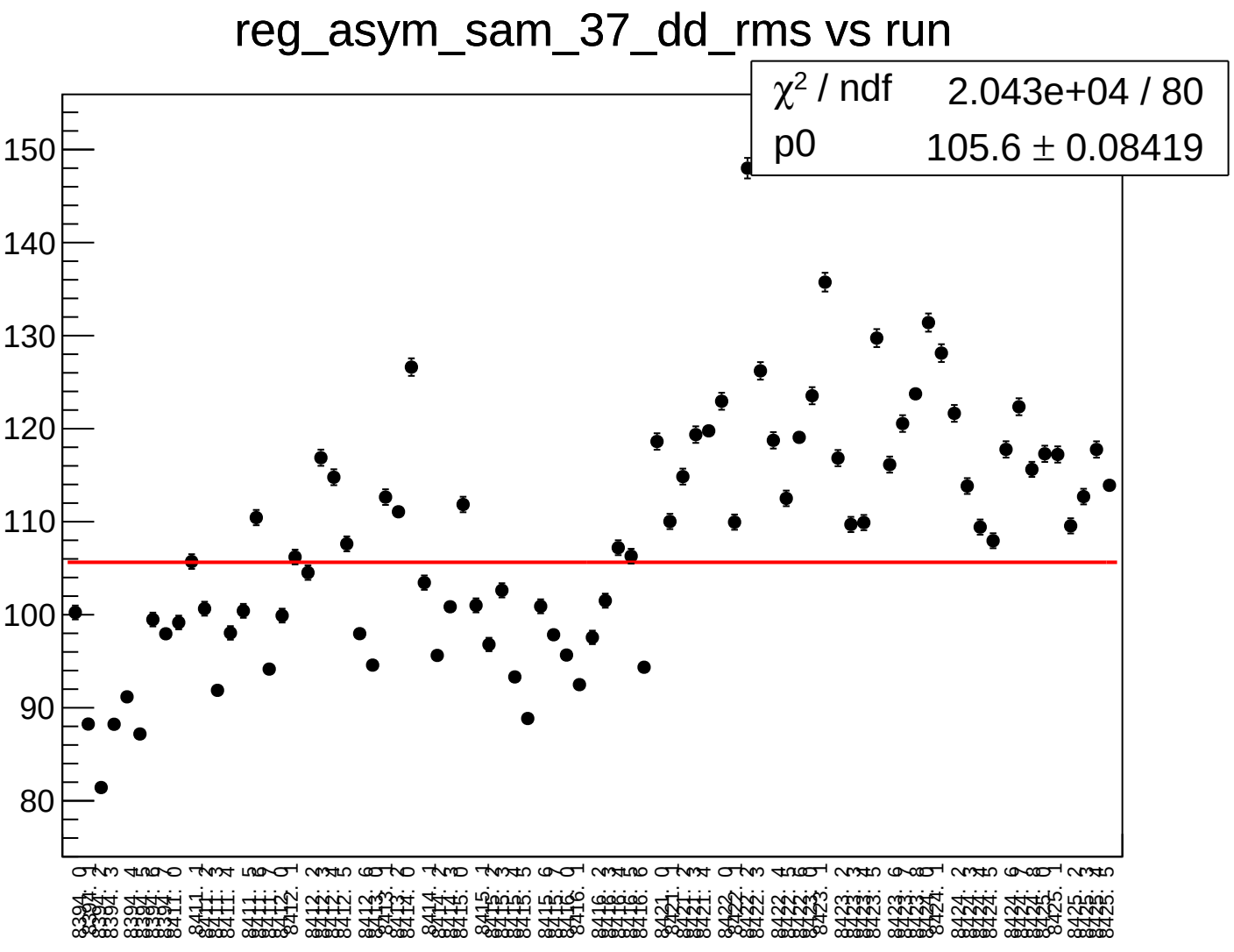

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 61.72 / 80
p0 9959 ± 3765
150
100
50
0
−50
−100
pull
Entries 81
Mean −774.2
Std Dev 812.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

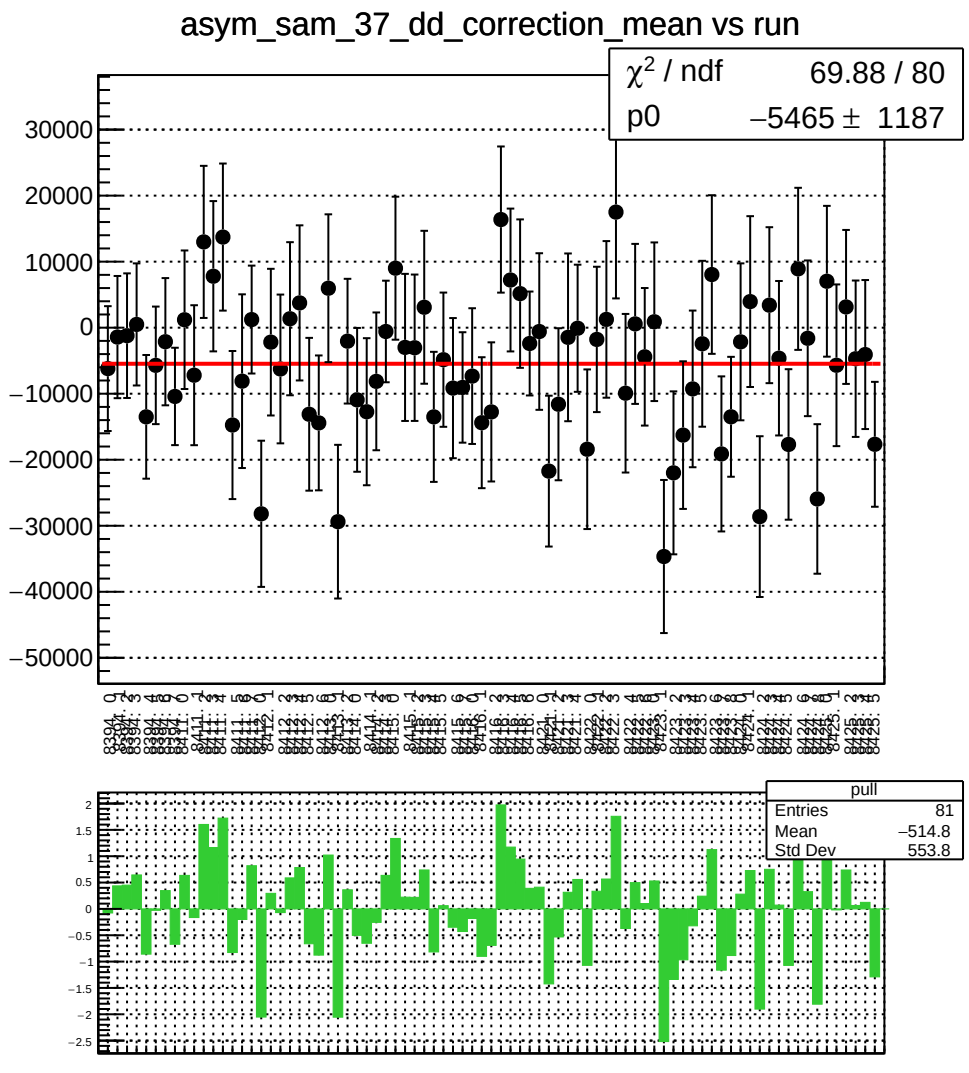

pull1D
Entries 81
Mean −0.002792
Std Dev 0.8729
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

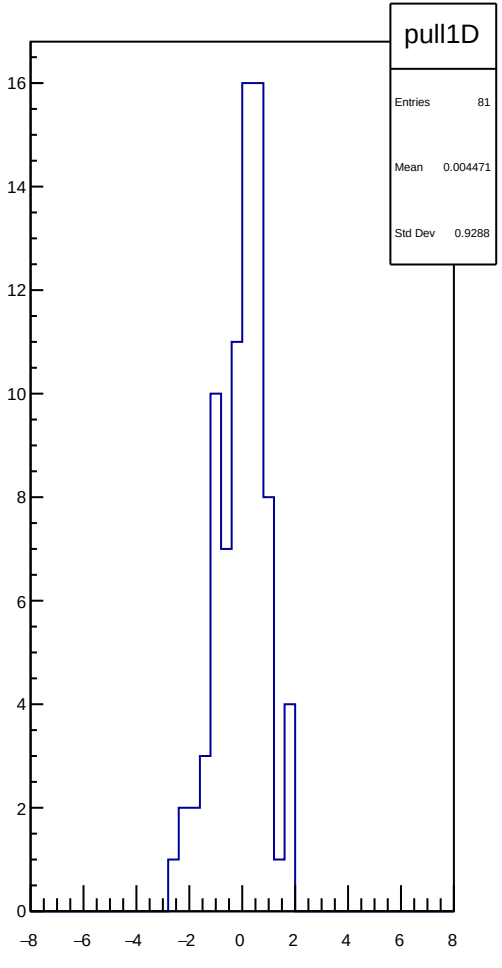

asym_sam_26_dd_rms vs run
χ² / ndf 2.553e+04 / 80
p0 3335 ± 2.662
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

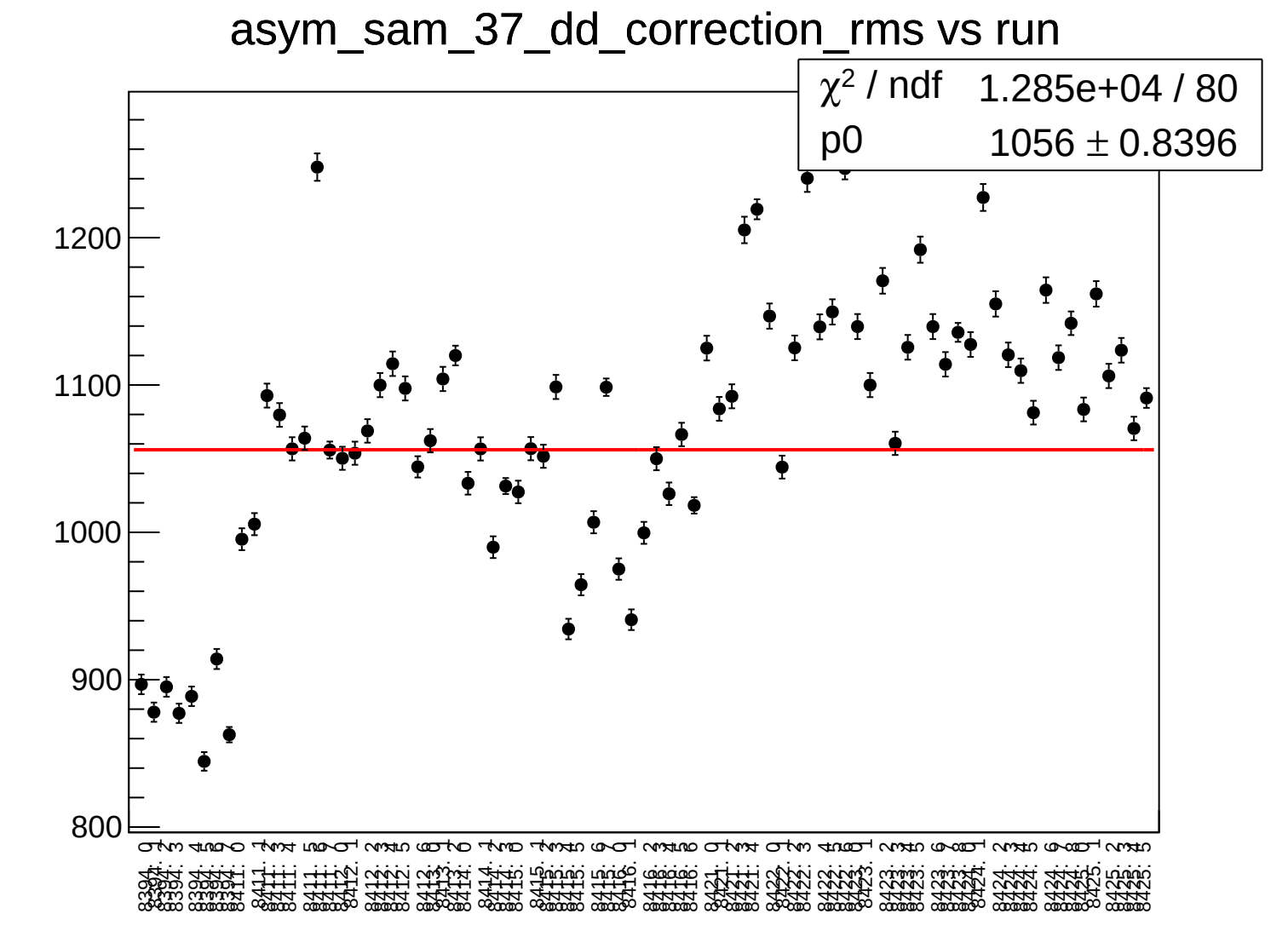

reg_asym_sam_37_dd_mean vs run
χ² / ndf 79.75 / 80
p0 139 ± 119.1
pull
Entries 81
Mean 172.7
Std Dev 141.6

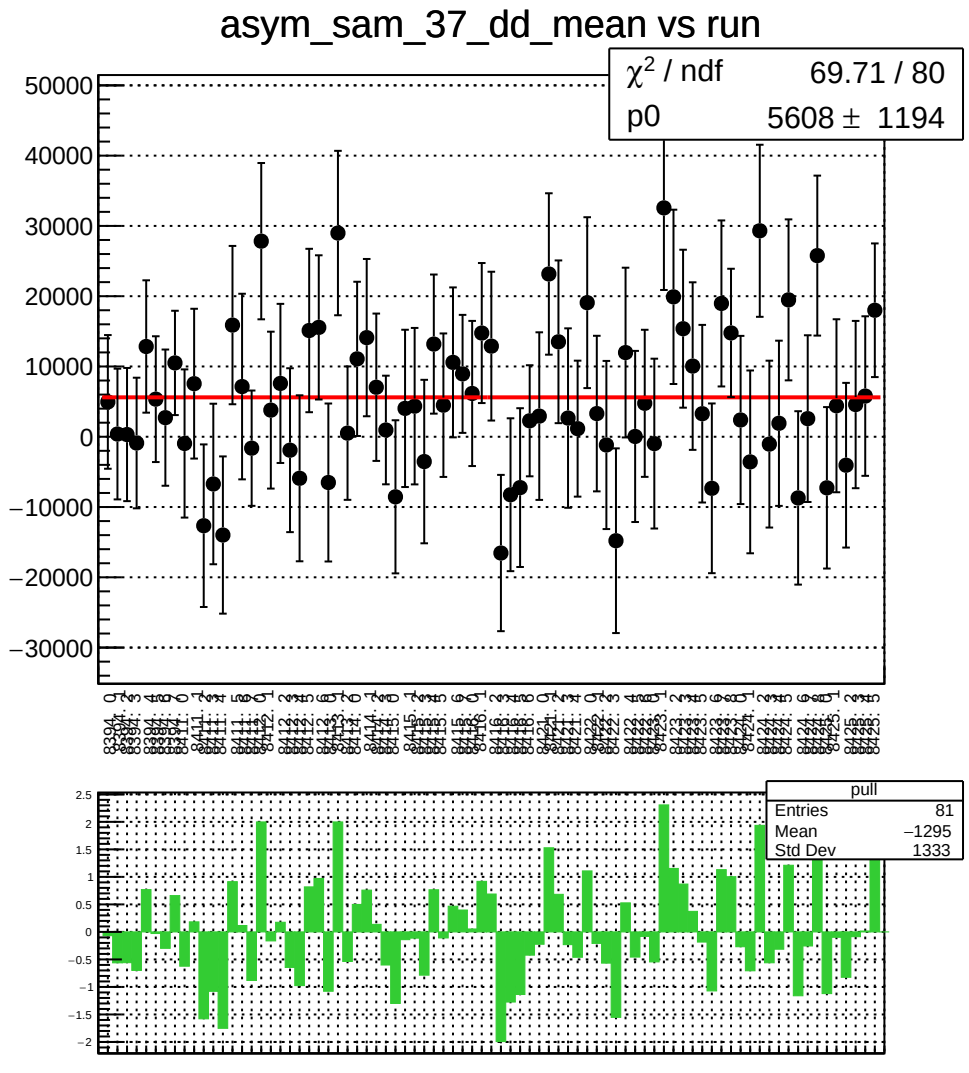

pull1D
Entries 81
Mean 0.02584
Std Dev 0.9919

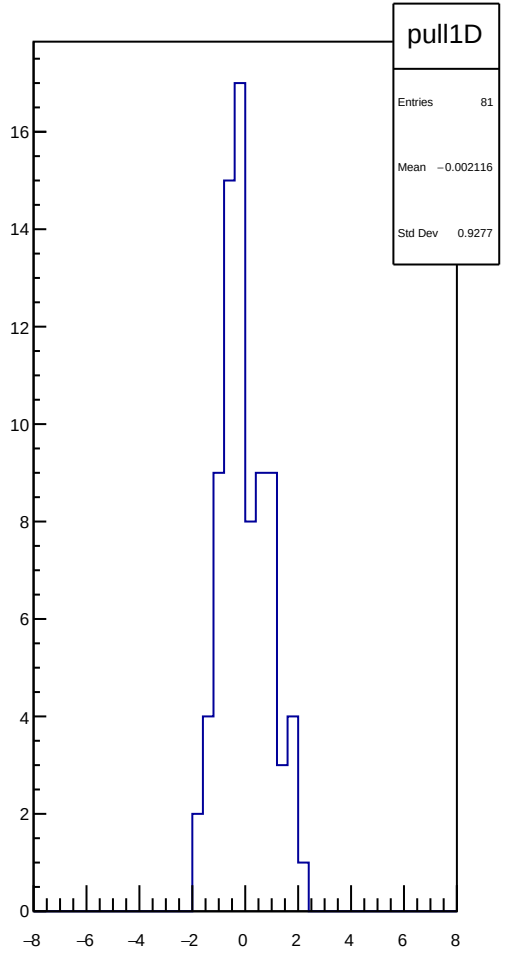

reg_asym_sam_37_dd_rms vs run
χ² / ndf 2.043e+04 / 80
p0 105.6 ± 0.08419
150
140
130
120
110
100
90
80

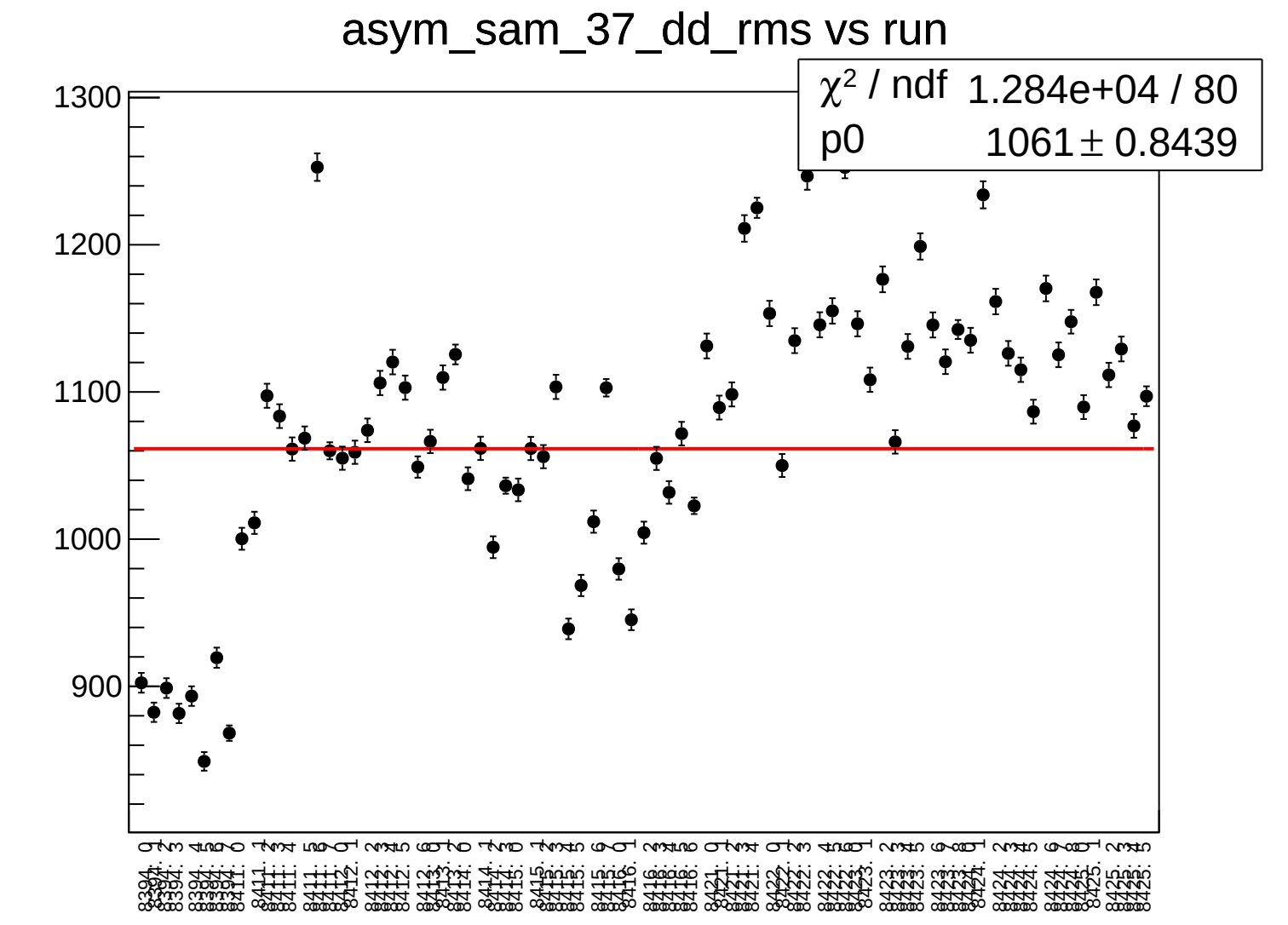

asym_sam_37_dd_correction_mean vs run
χ² / ndf 69.88 / 80
p0 −5465 ± 1187
pull
Entries 81
Mean −514.8
Std Dev 553.8

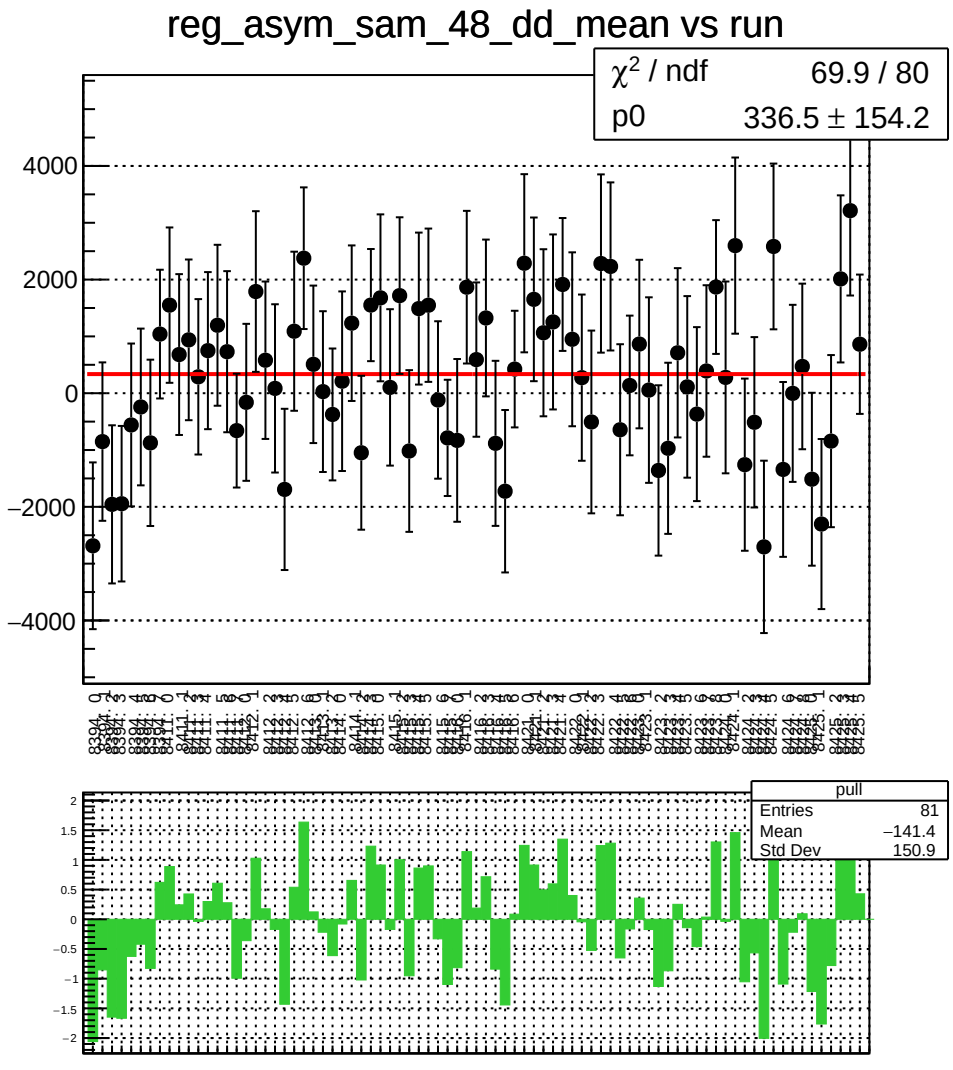

pull1D
Entries 81
Mean 0.004471
Std Dev 0.9288

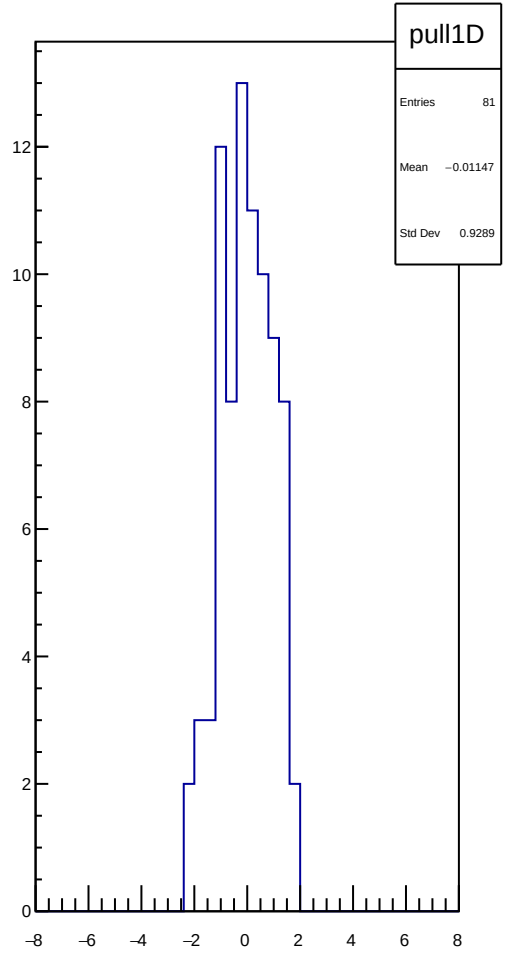

asym_sam_37_dd_correction_rms vs run
χ² / ndf 1.285e+04 / 80
p0 1056 ± 0.8396
1200
1100
1000
900
800

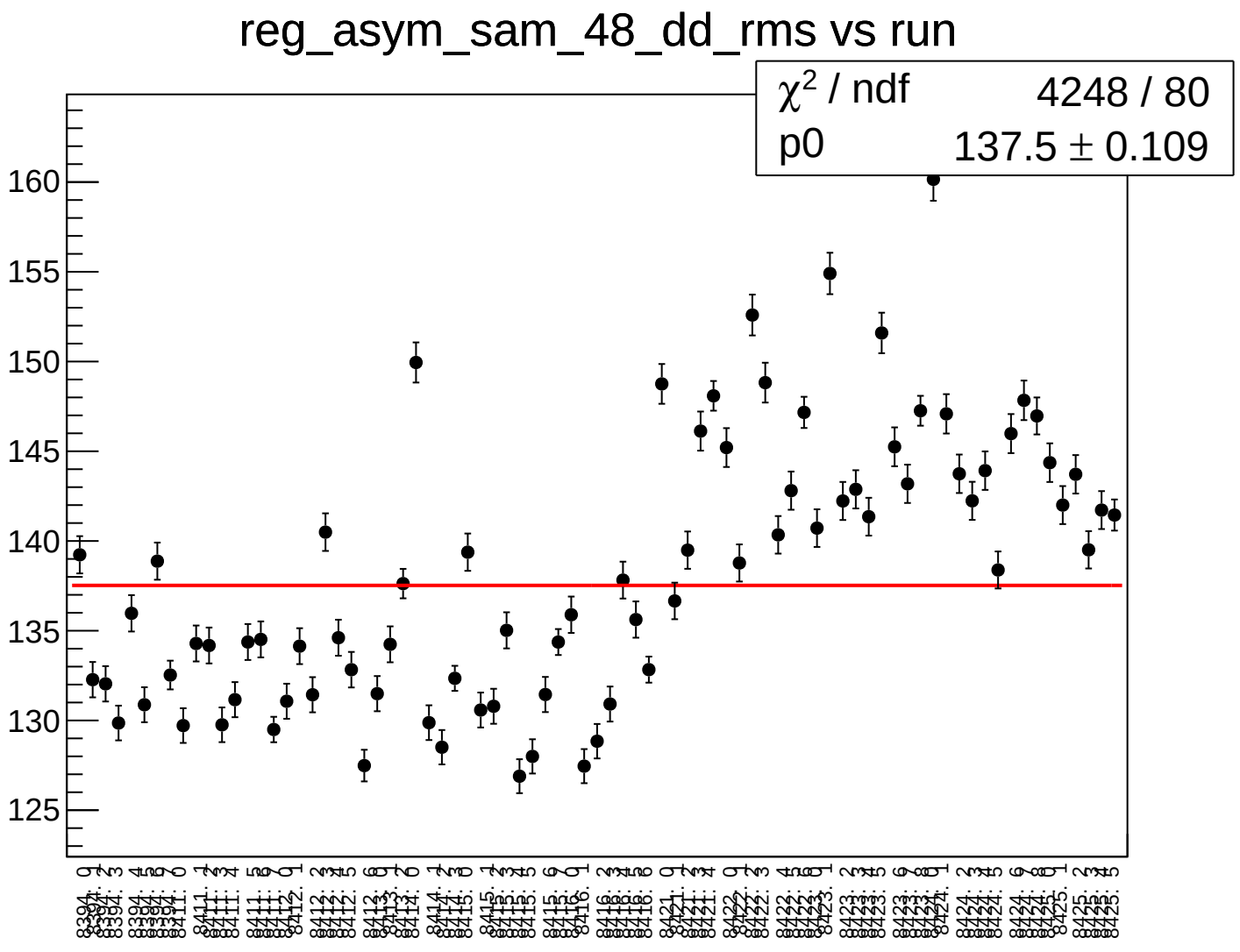

asym_sam_37_dd_mean vs run
χ² / ndf 69.71 / 80
p0 5608 ± 1194
pull
Entries 81
Mean −1295
Std Dev 1333

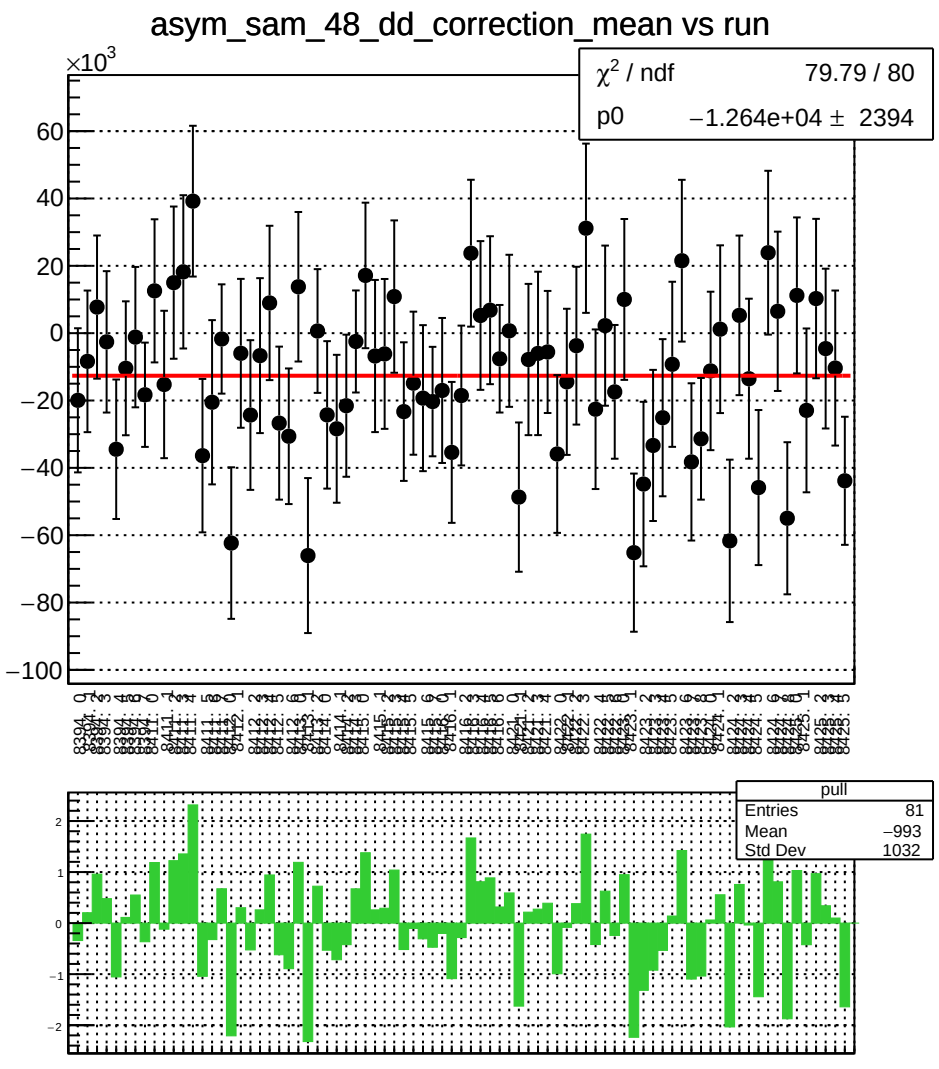

pull1D
Entries 81
Mean −0.002116
Std Dev 0.9277

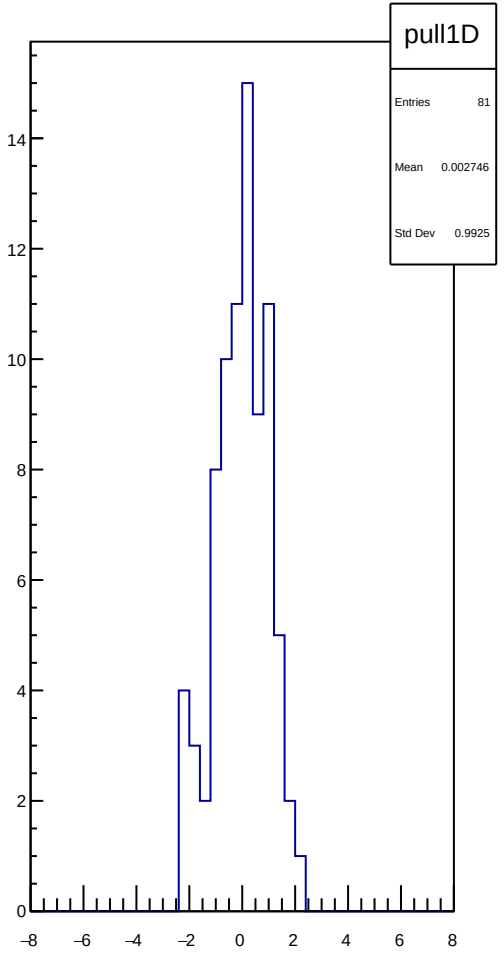

asym_sam_37_dd_rms vs run
χ² / ndf 1.284e+04 / 80
p0 1061 ± 0.8439
1300
1200
1100
1000
900

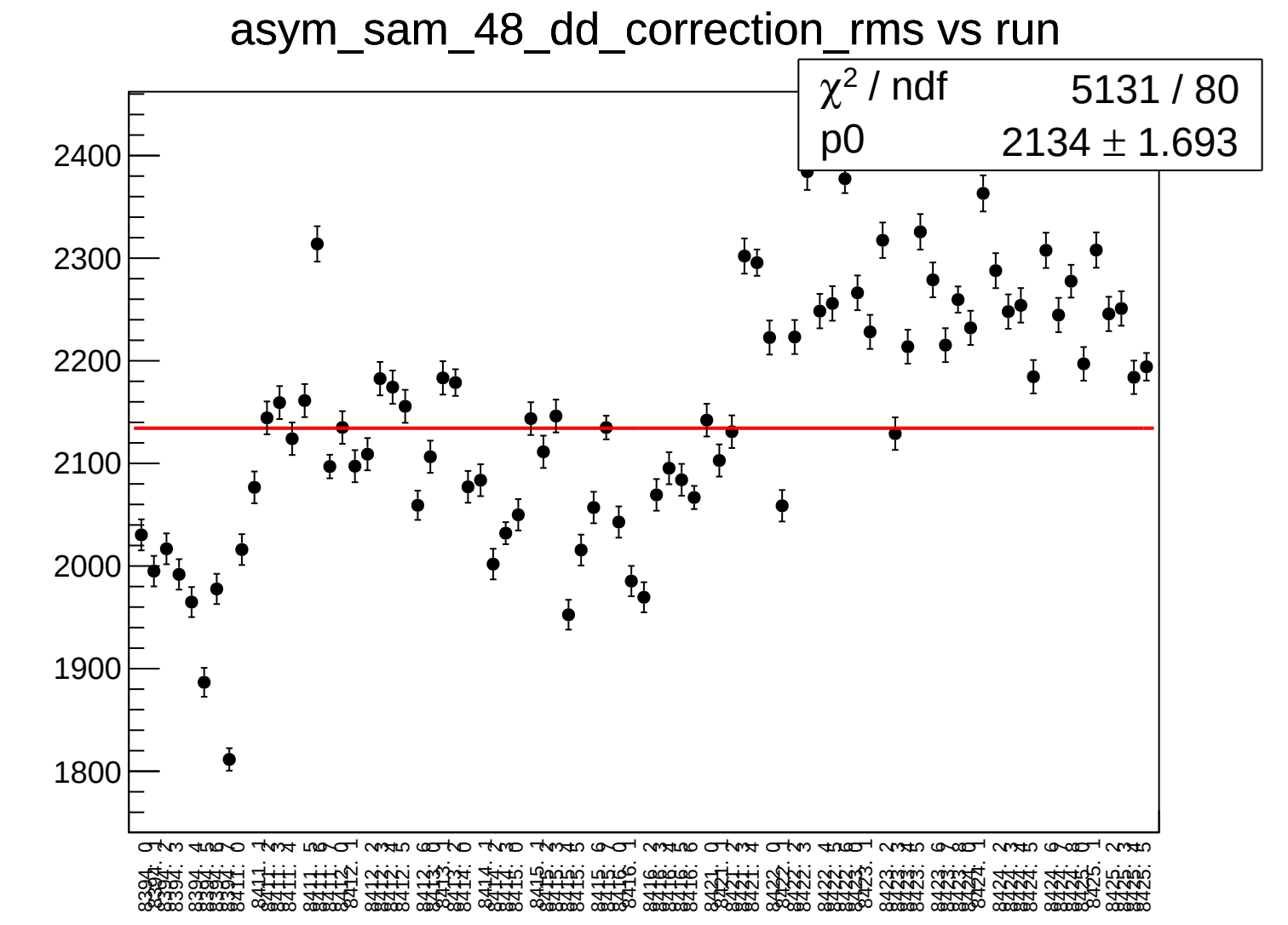

reg_asym_sam_48_dd_mean vs run
χ² / ndf 69.9 / 80
p0 336.5 ± 154.2
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −141.4
Std Dev 150.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

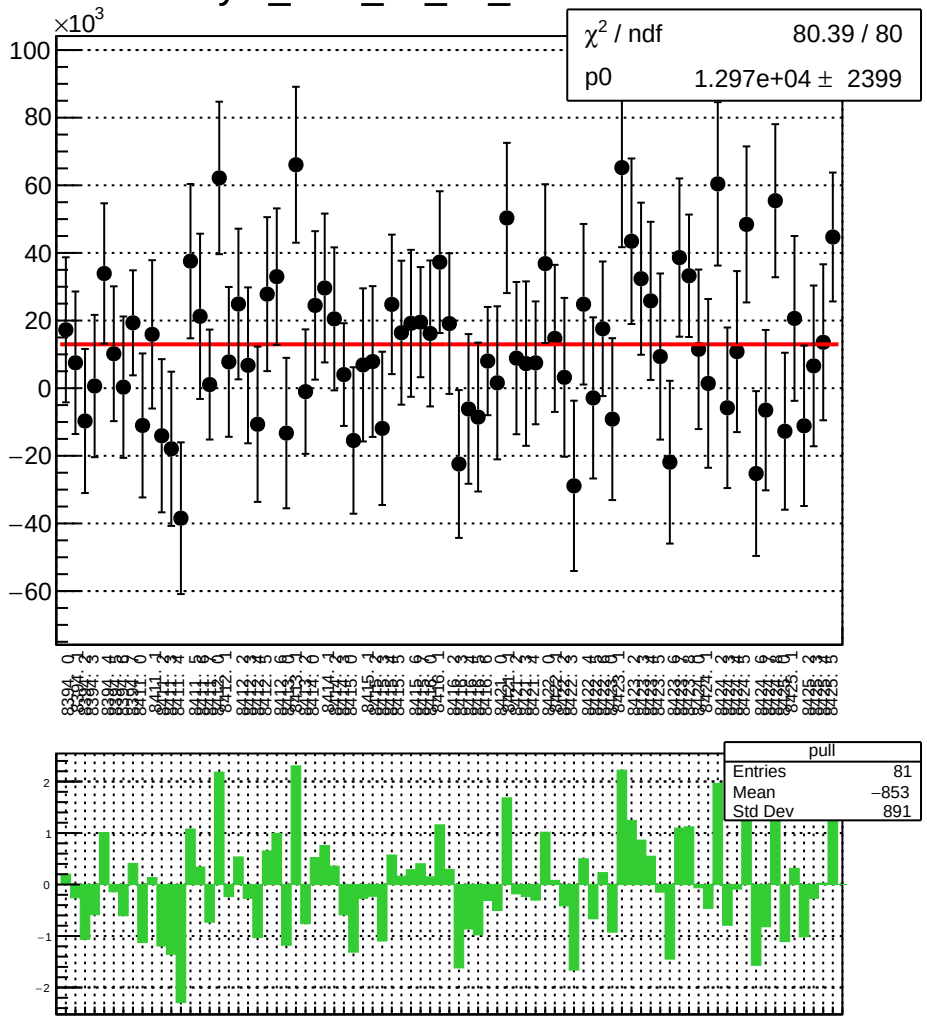

pull1D
Entries 81
Mean −0.01147
Std Dev 0.9289
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

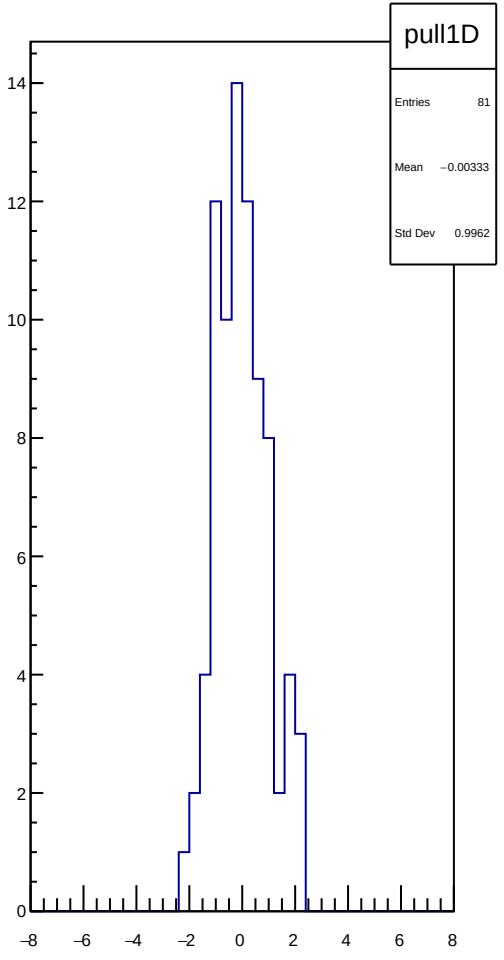

reg_asym_sam_48_dd_rms vs run
χ² / ndf 4248 / 80
p0 137.5 ± 0.109
160
155
150
145
140
135
130
125

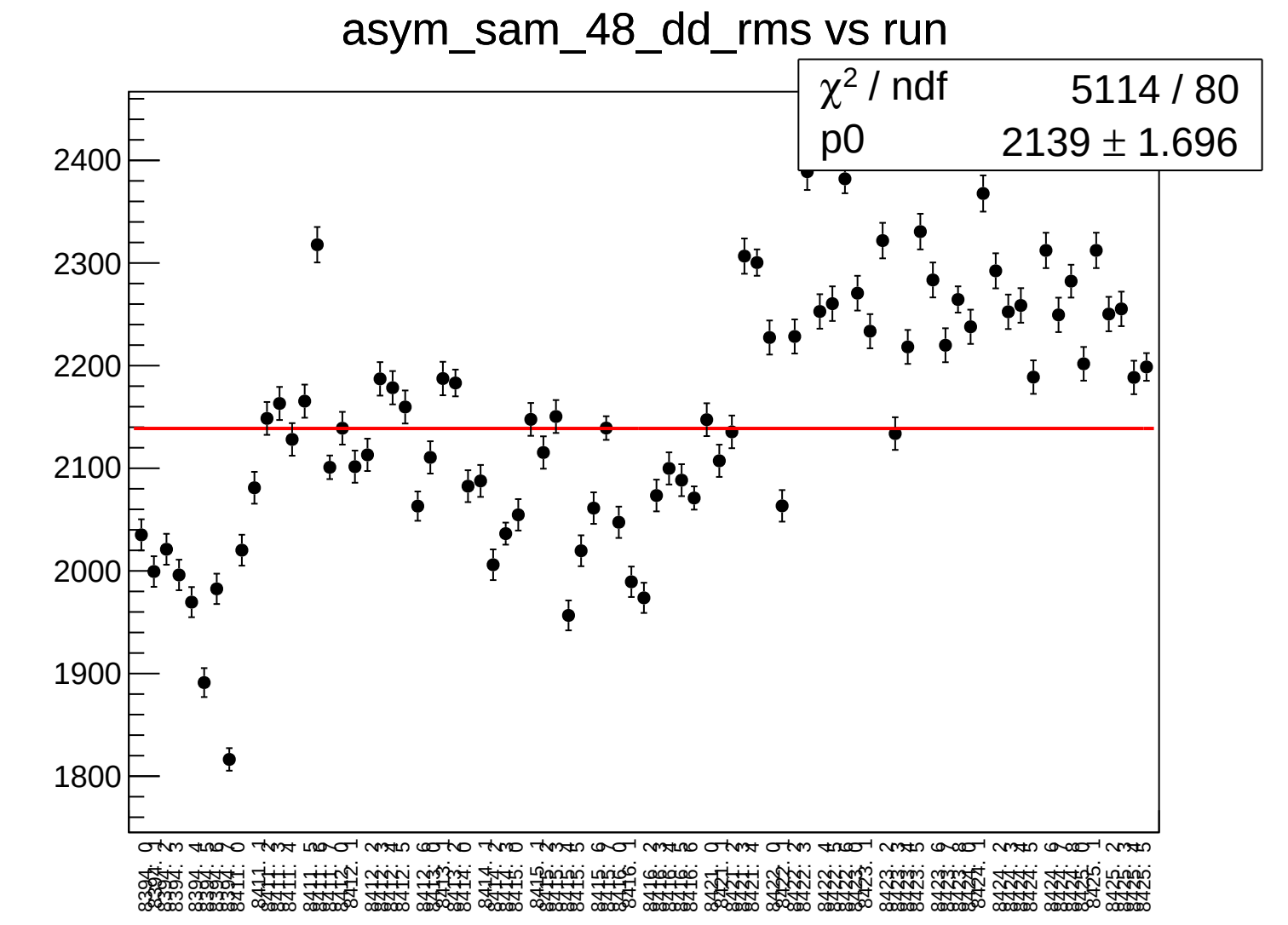

asym_sam_48_dd_correction_mean vs run
χ² / ndf 79.79 / 80
p0 −1.264e+04 ± 2394
pull
Entries 81
Mean −993
Std Dev 1032

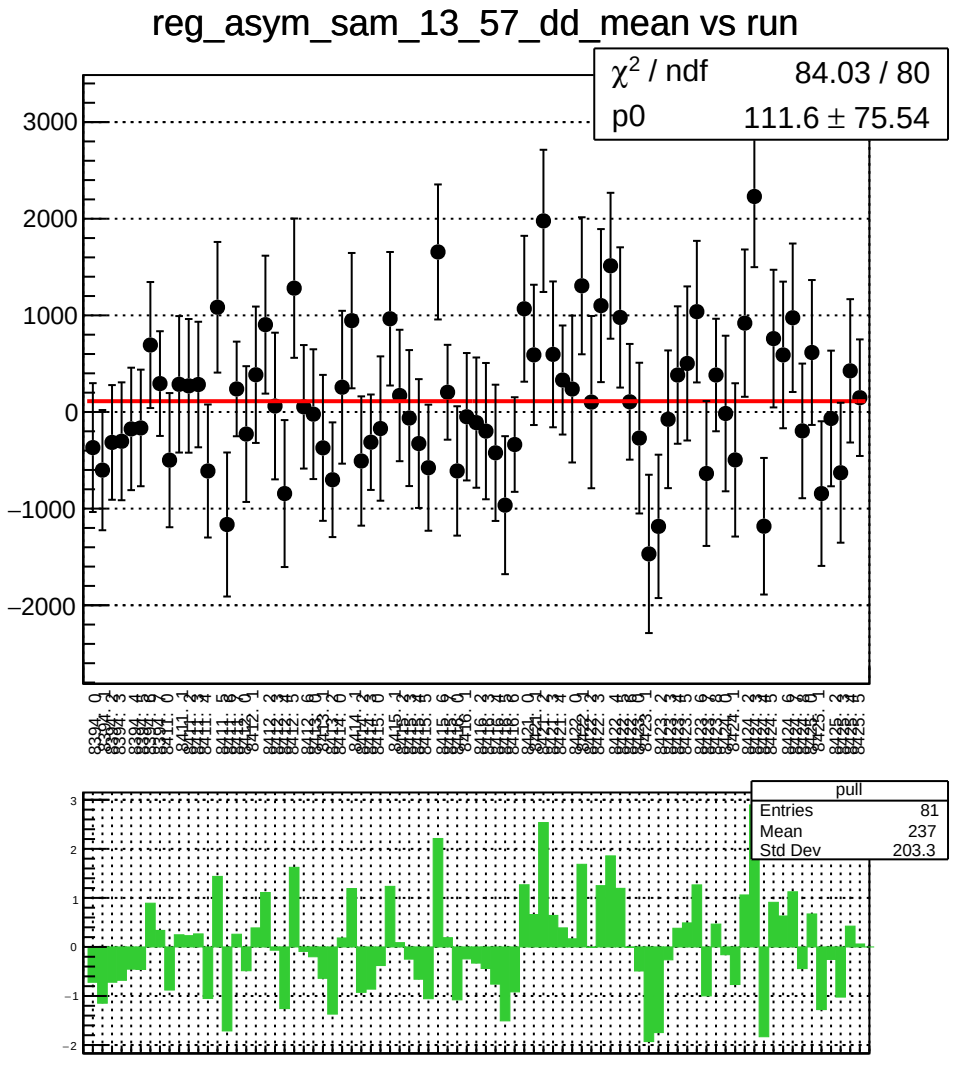

pull1D
Entries 81
Mean 0.002746
Std Dev 0.9925

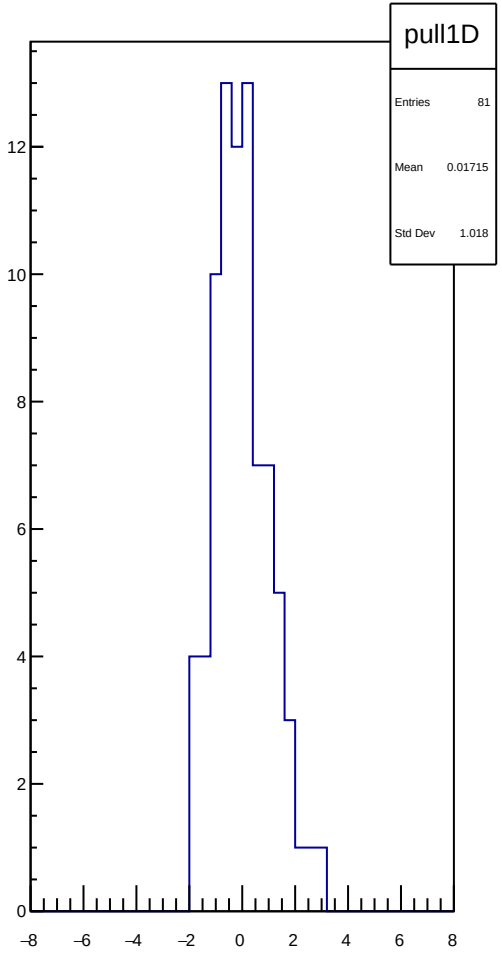

asym_sam_48_dd_correction_rms vs run
χ² / ndf 5131 / 80
p0 2134 ± 1.693
2400
2300
2200
2100
2000
1900
1800

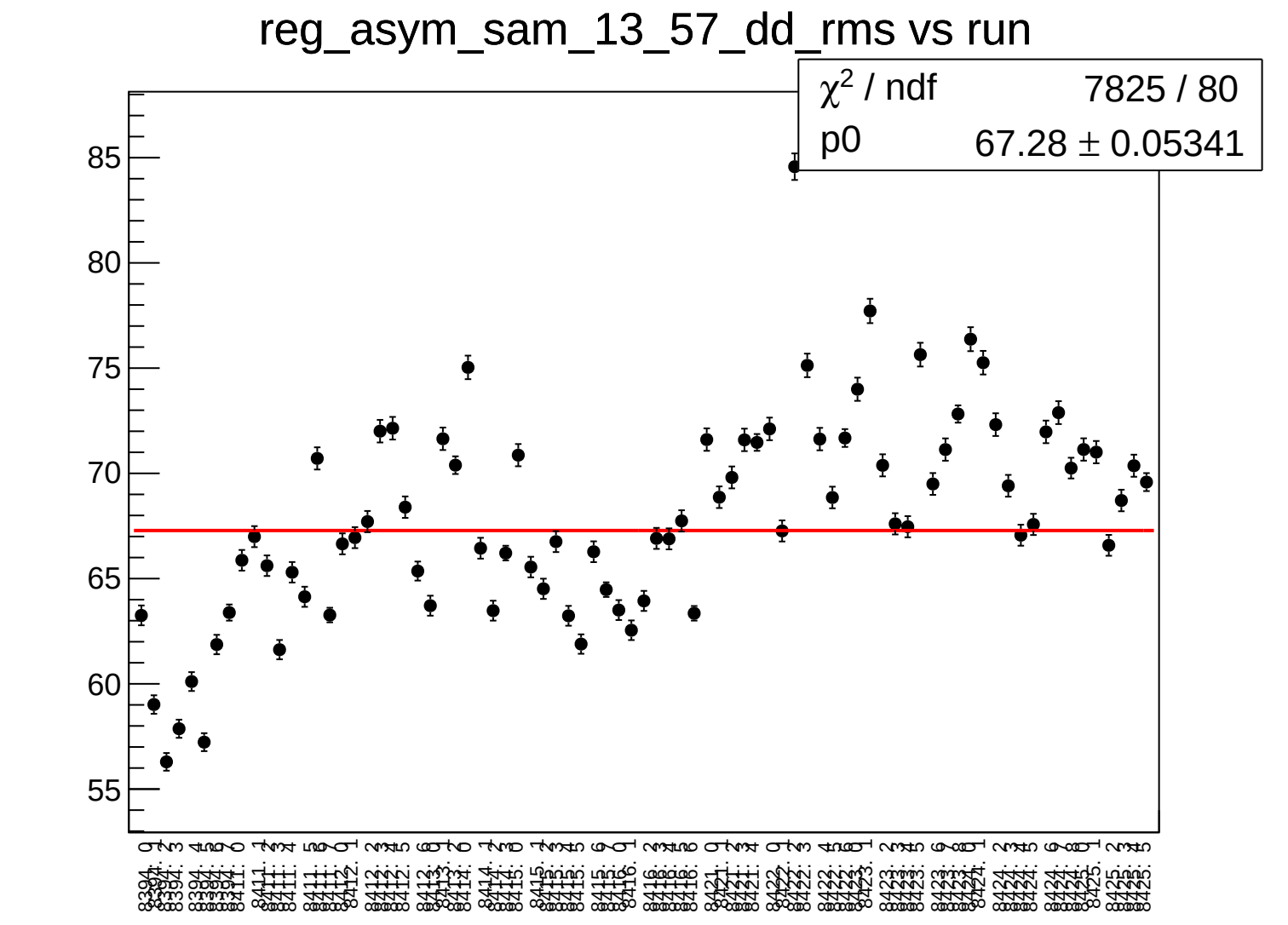

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 80.39 / 80
p0 1.297e+04 ± 2399
pull
Entries 81
Mean −853
Std Dev 891

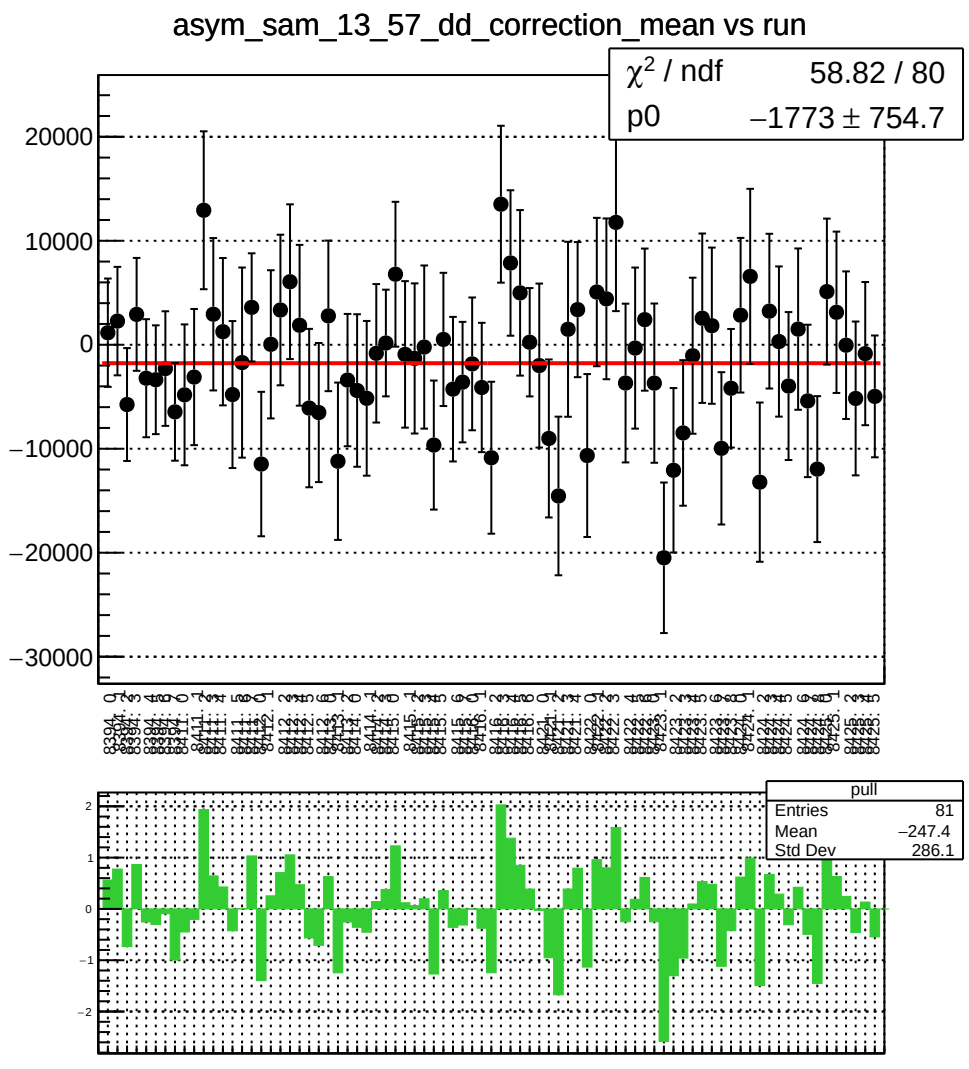

pull1D
Entries 81
Mean −0.00333
Std Dev 0.9962

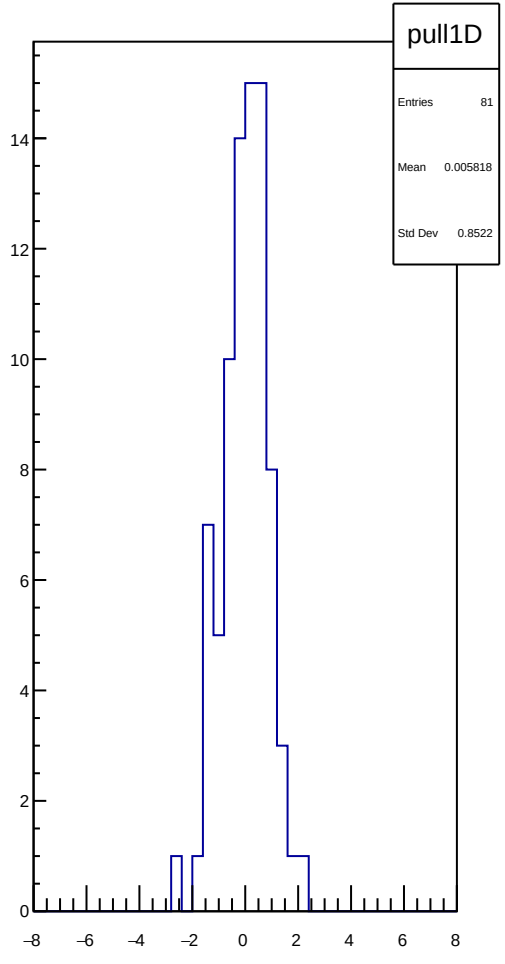

asym_sam_48_dd_rms vs run
χ² / ndf 5114 / 80
p0 2139 ± 1.696
2400
2300
2200
2100
2000
1900
1800

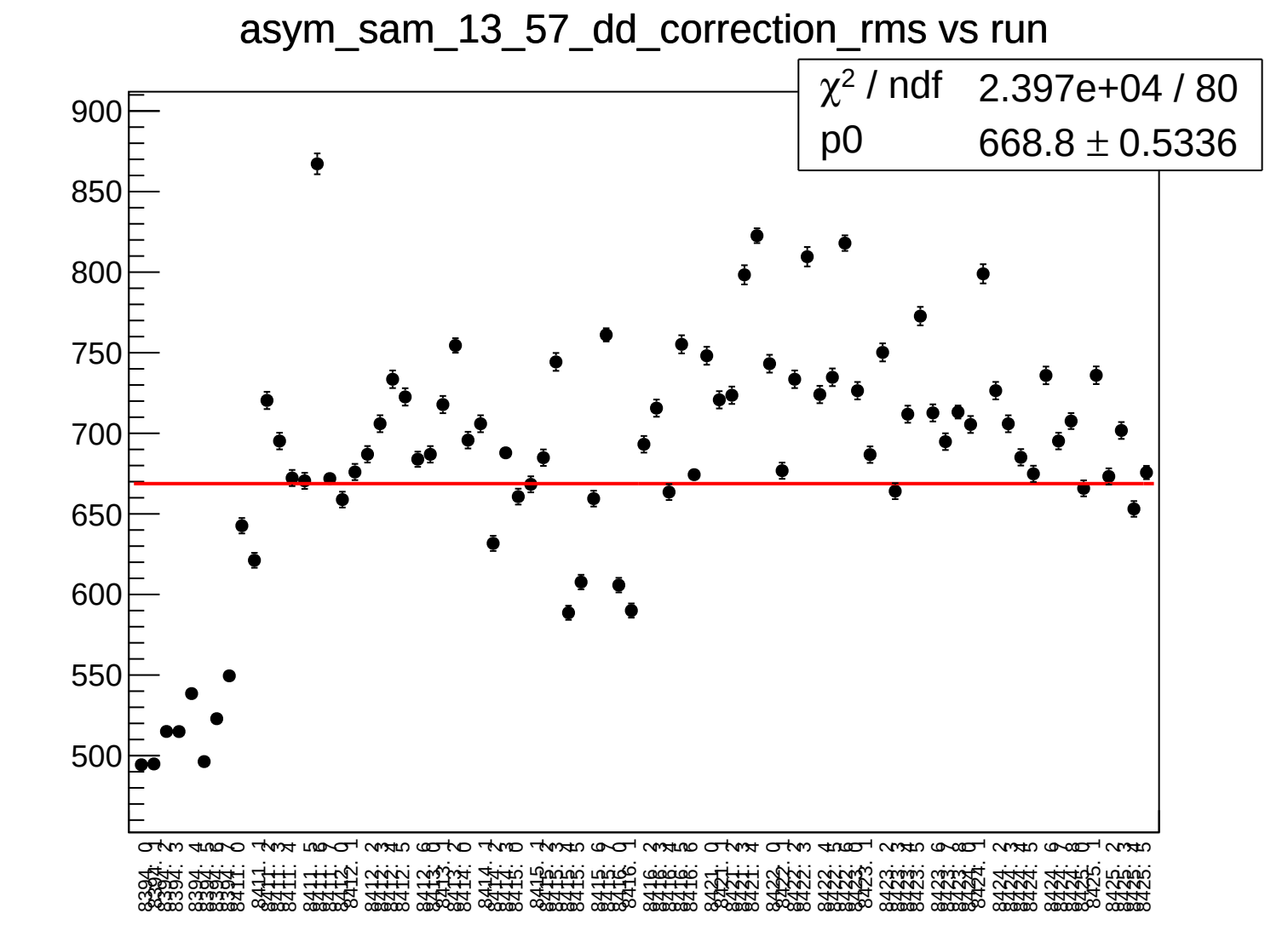

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 84.03 / 80
p0 111.6 ± 75.54
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 237
Std Dev 203.3
3
2
1
0
−1
−2

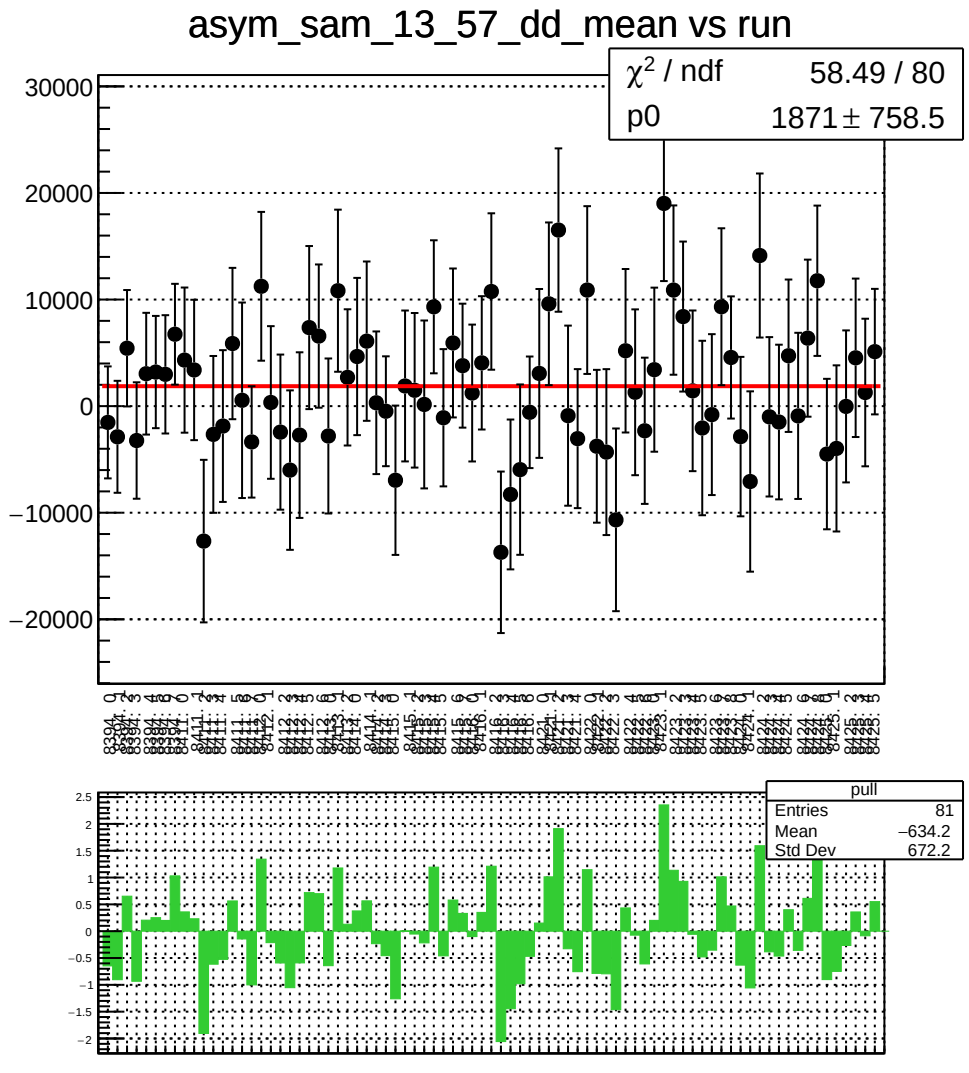

pull1D
Entries 81
Mean 0.01715
Std Dev 1.018
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

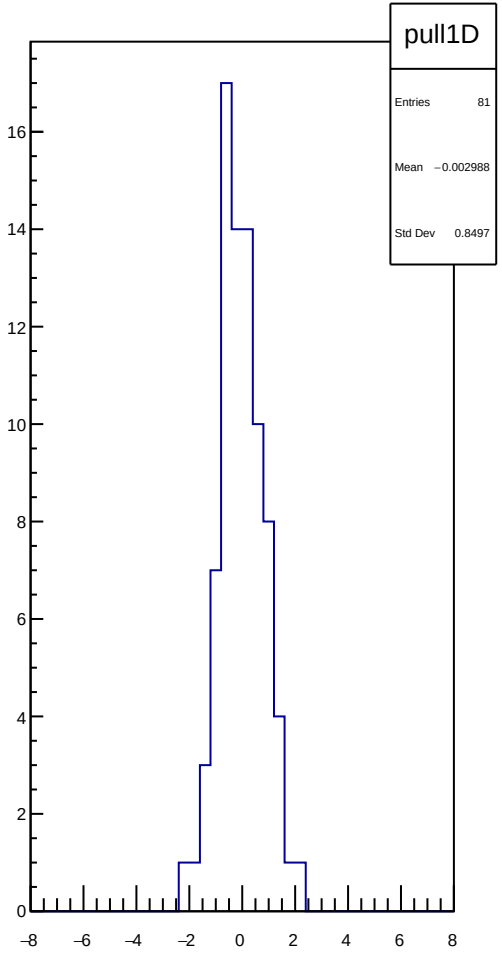

reg_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 7825 / 80
p0 67.28 ± 0.05341
85
80
75
70
65
60
55

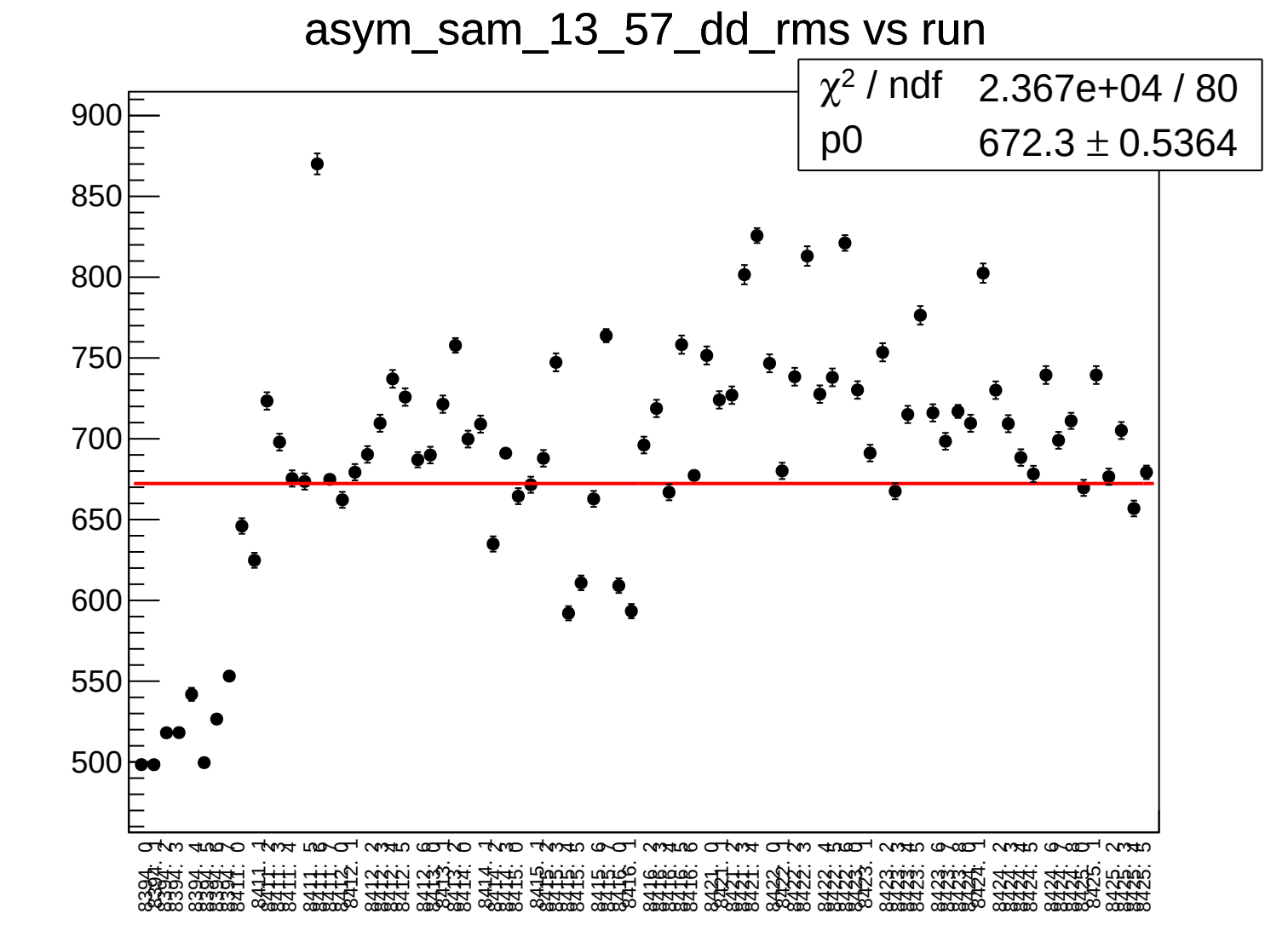

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 58.82 / 80
p0 −1773 ± 754.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −247.4
Std Dev 286.1
2
1
0
−1
−2

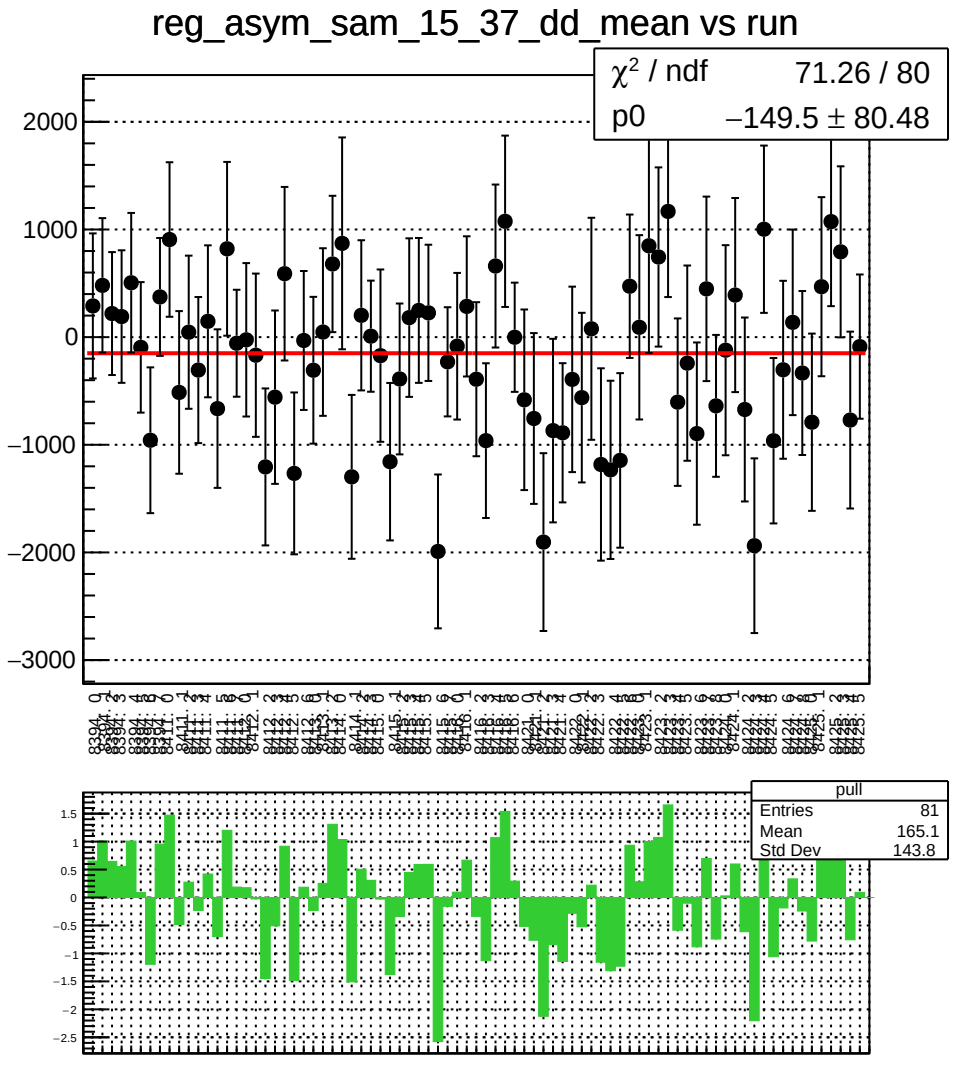

pull1D
Entries 81
Mean 0.005818
Std Dev 0.8522
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

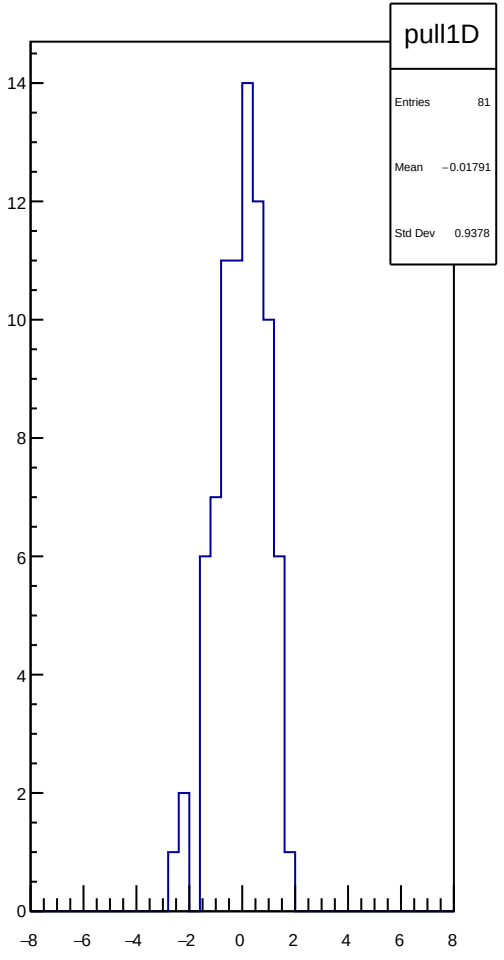

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 2.397e+04 / 80
p0 668.8 ± 0.5336
900
850
800
750
700
650
600
550
500

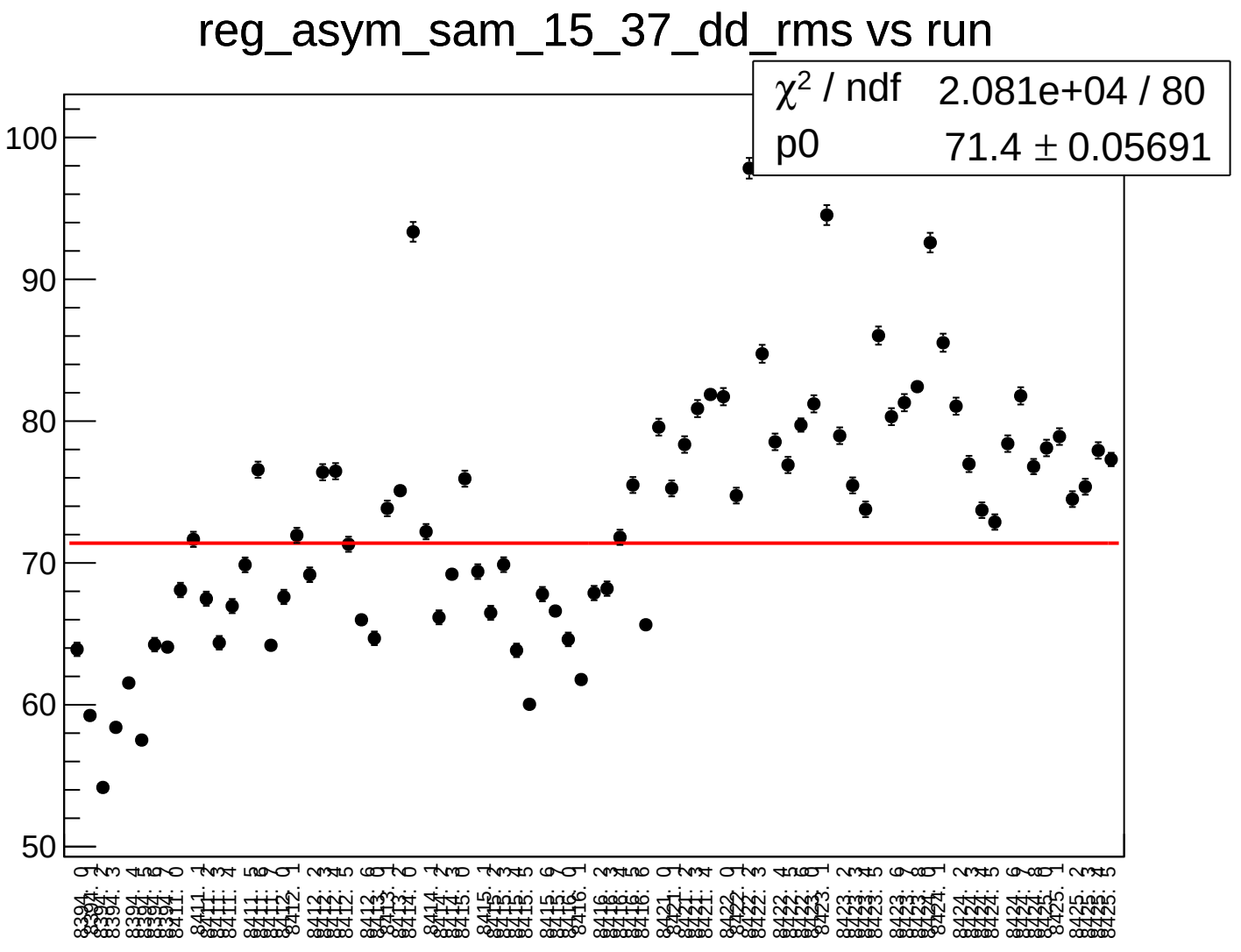

asym_sam_13_57_dd_mean vs run
χ² / ndf 58.49 / 80
p0 1871 ± 758.5
pull
Entries 81
Mean −634.2
Std Dev 672.2

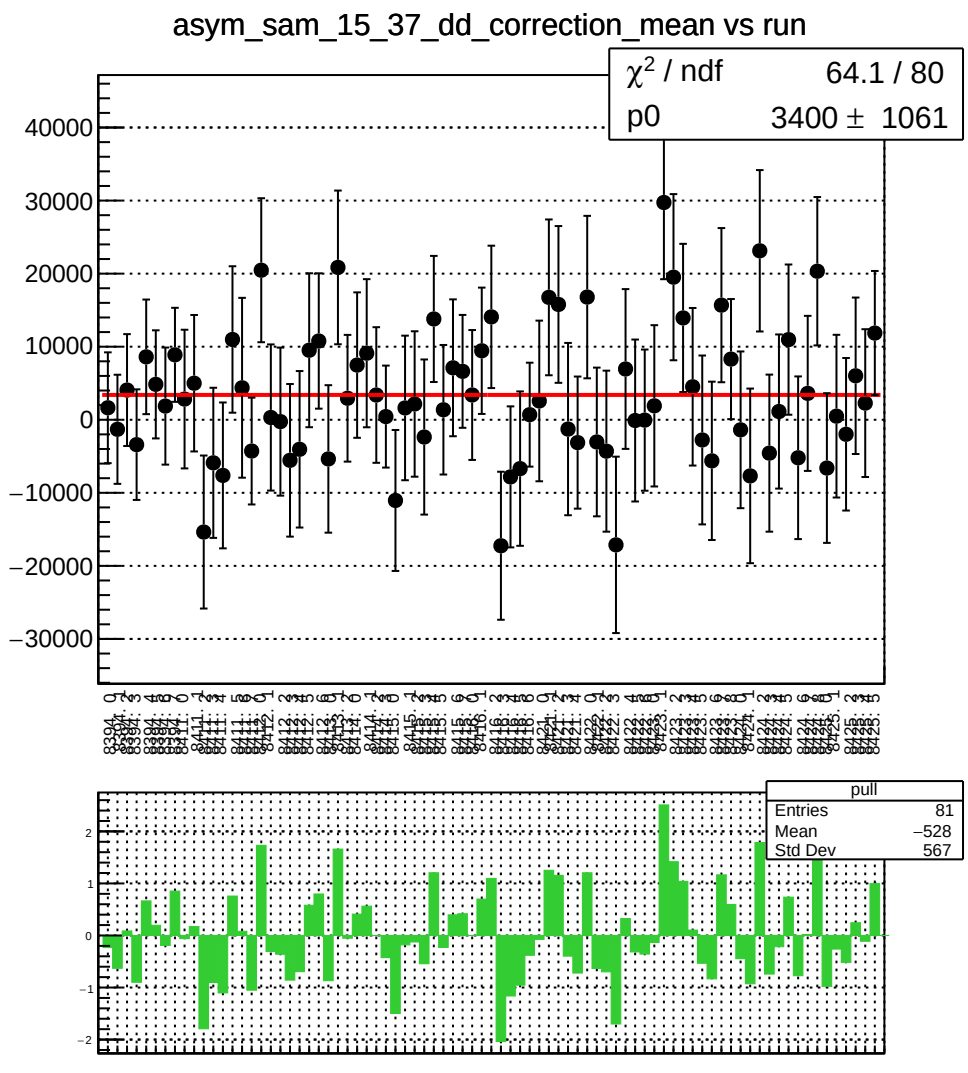

pull1D
Entries 81
Mean −0.002988
Std Dev 0.8497

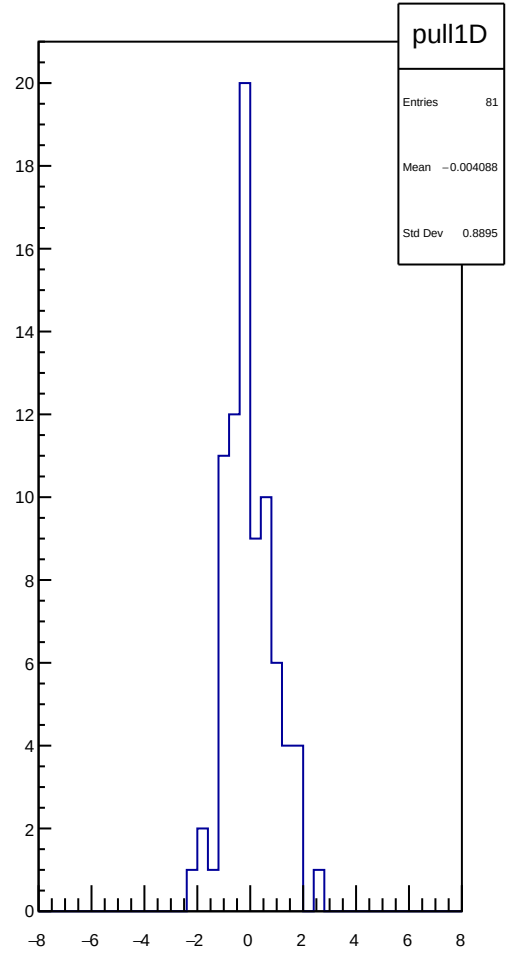

asym_sam_13_57_dd_rms vs run
χ² / ndf 2.367e+04 / 80
p0 672.3 ± 0.5364
900
850
800
750
700
650
600
550
500

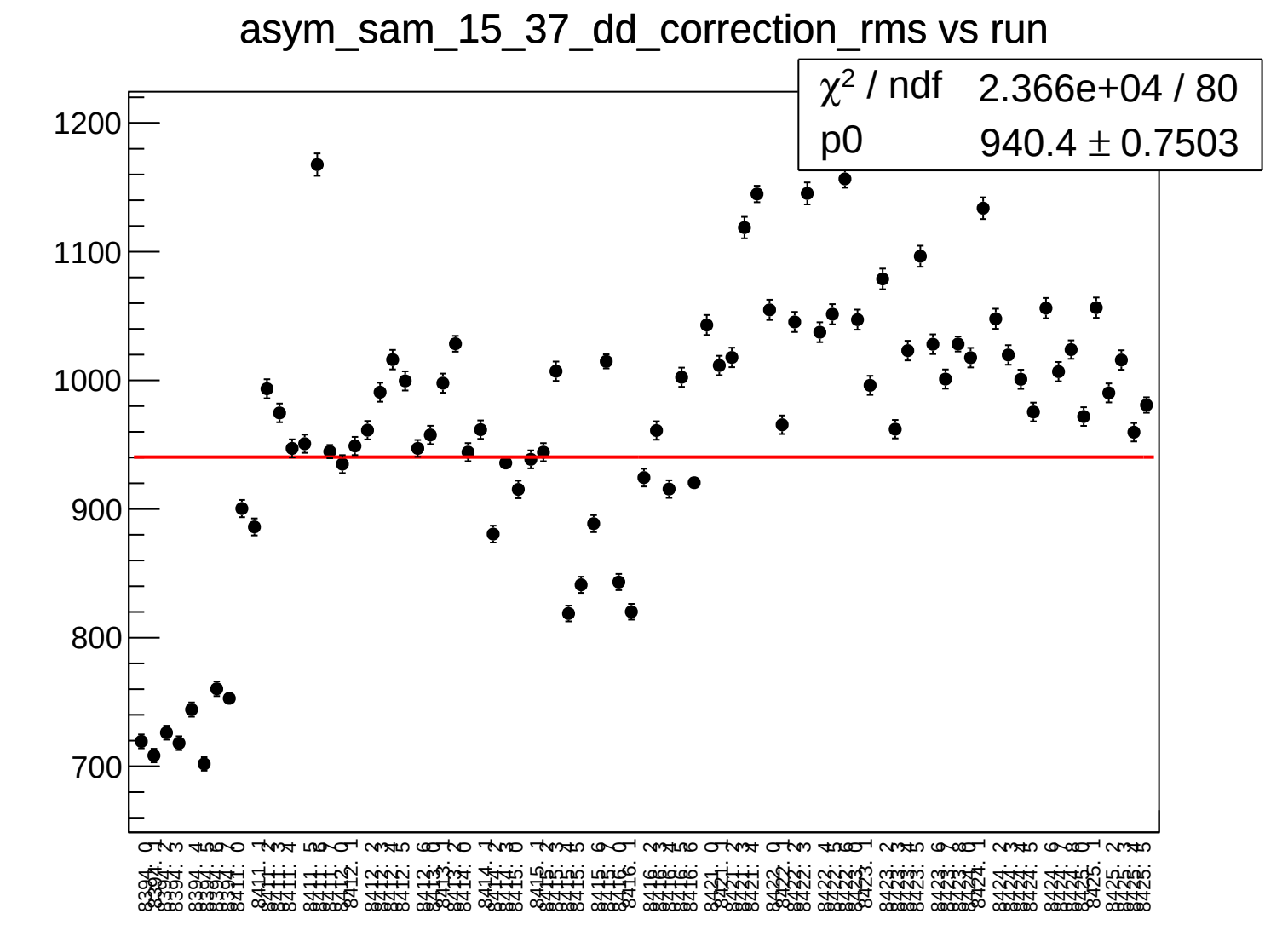

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 71.26 / 80
p0 −149.5 ± 80.48
pull
Entries 81
Mean 165.1
Std Dev 143.8

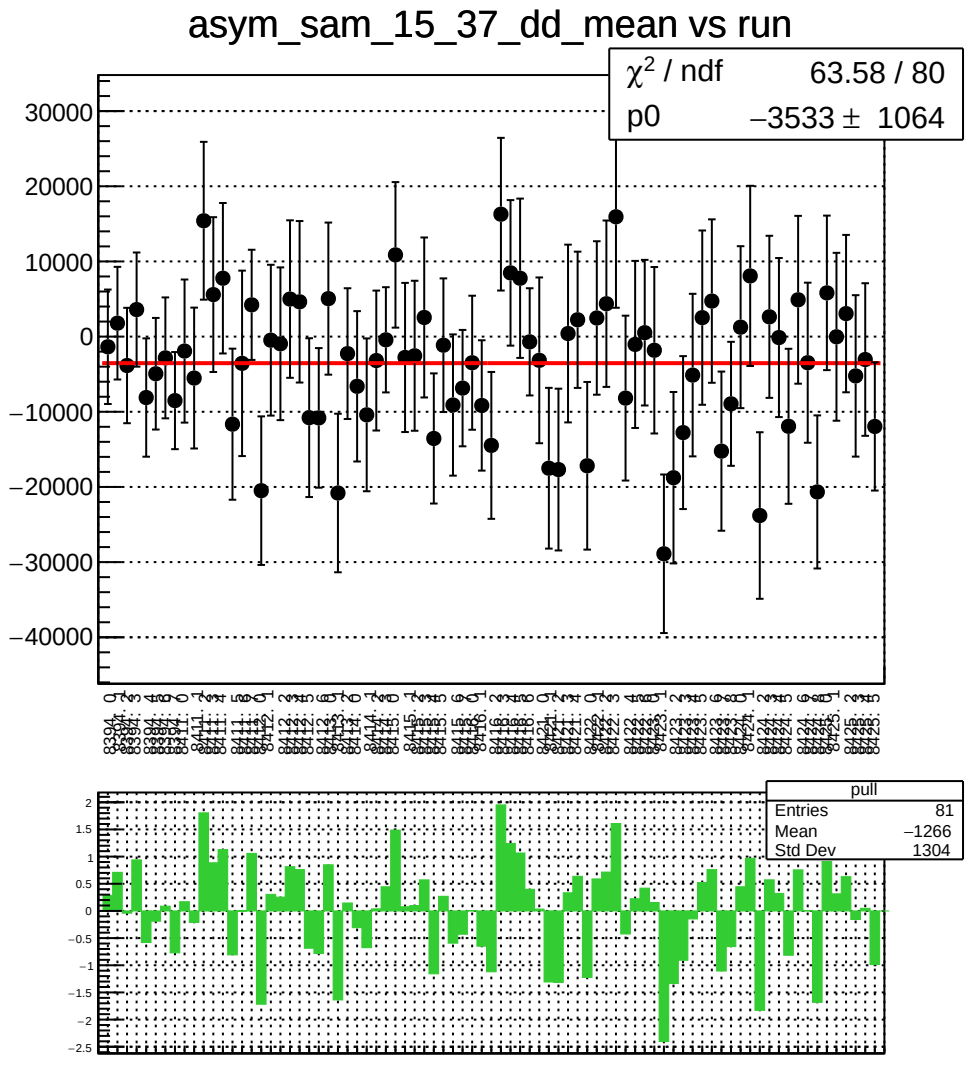

pull1D
Entries 81
Mean −0.01791
Std Dev 0.9378

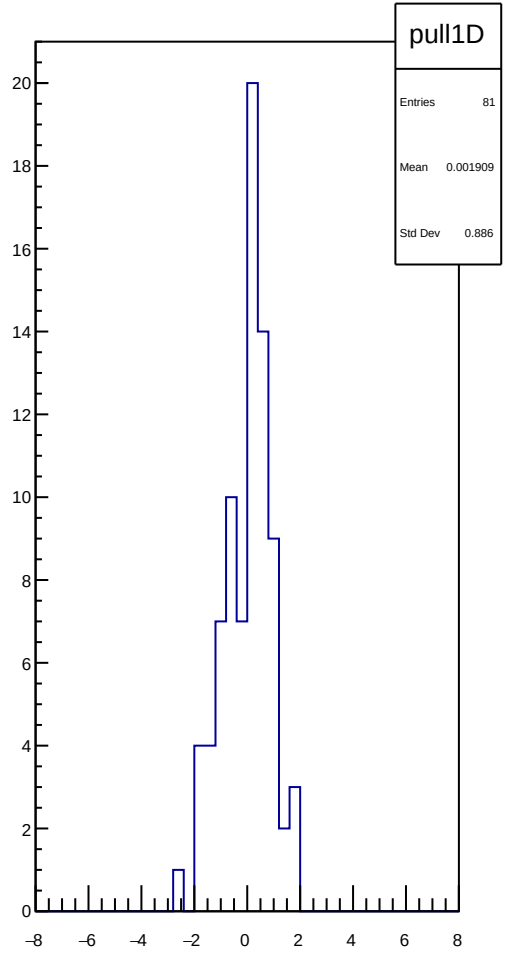

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.081e+04 / 80
p0 71.4 ± 0.05691
100
90
80
70
60
50

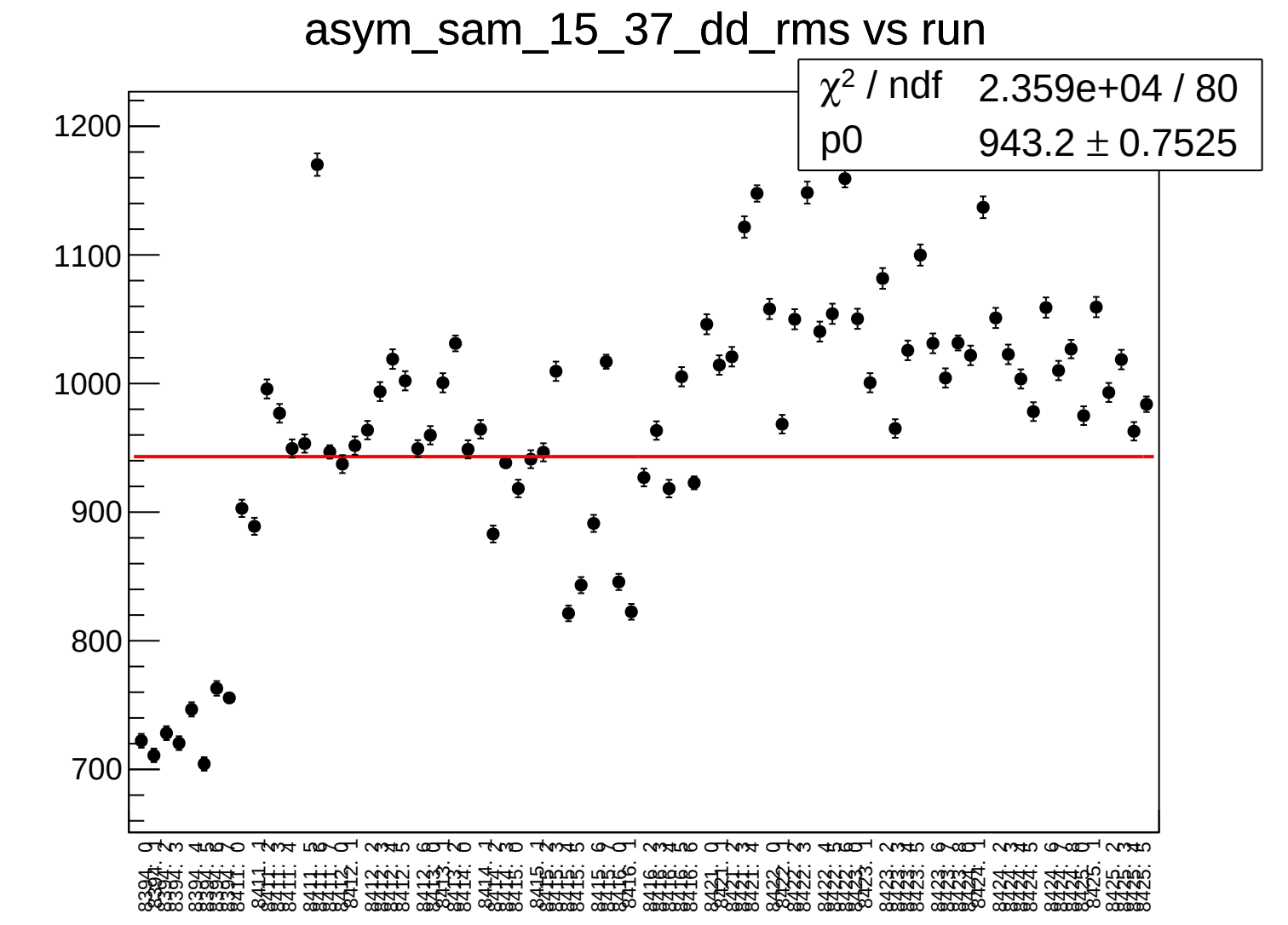

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 64.1 / 80
p0 3400 ± 1061
pull
Entries 81
Mean −528
Std Dev 567

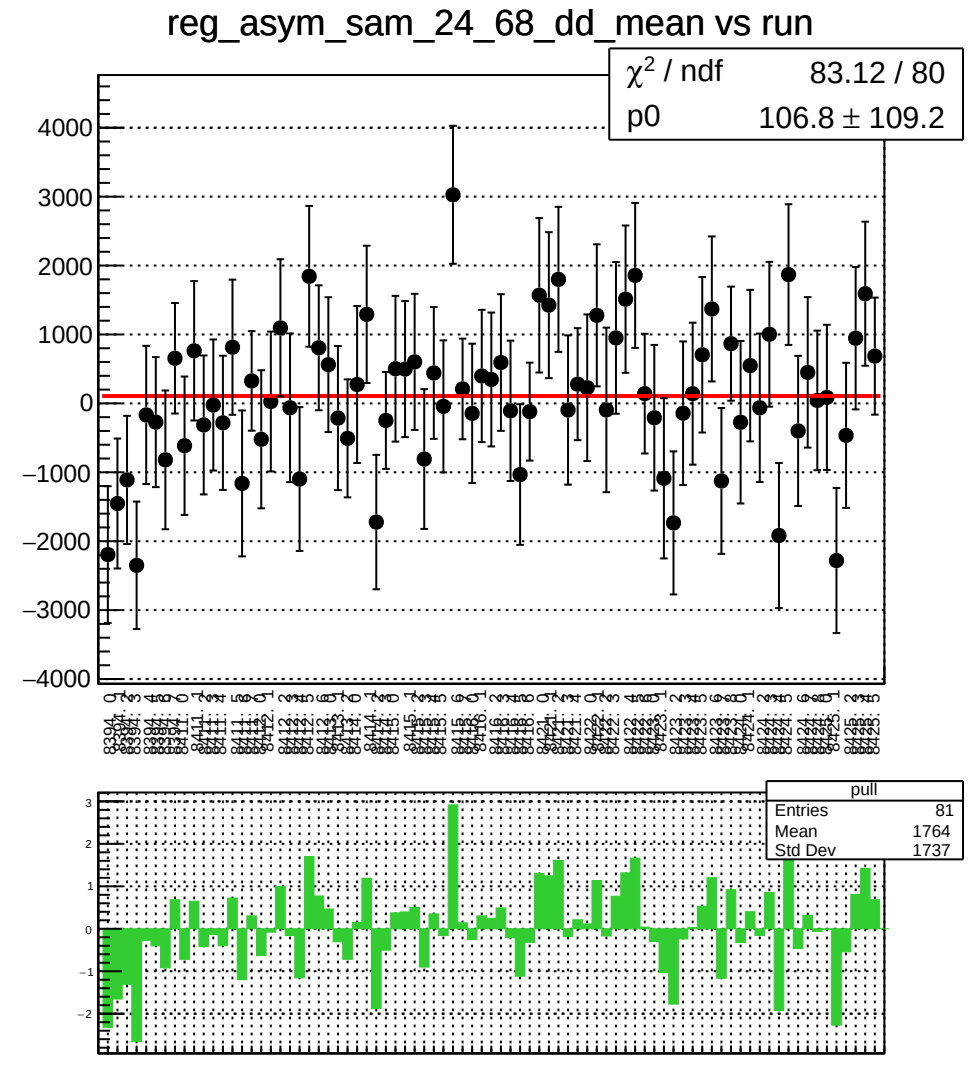

pull1D
Entries 81
Mean −0.004088
Std Dev 0.8895

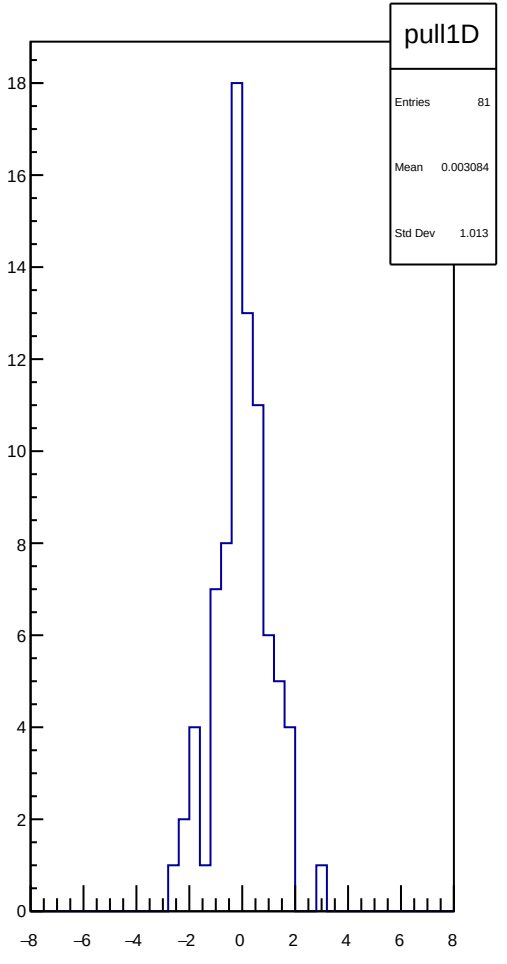

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 2.366e+04 / 80
p0 940.4 ± 0.7503
1200
1100
1000
900
800
700

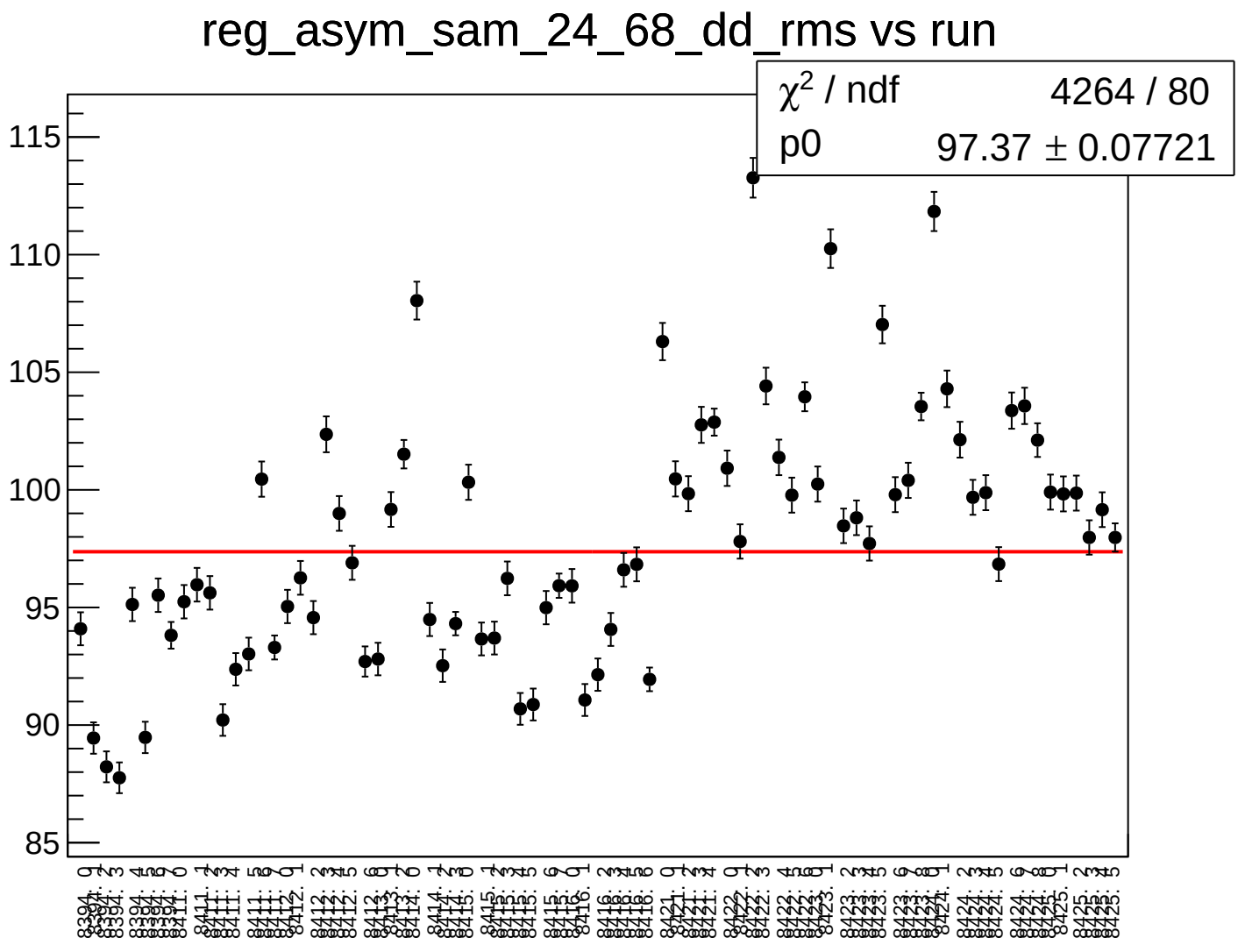

asym_sam_15_37_dd_mean vs run
χ² / ndf 63.58 / 80
p0 −3533 ± 1064
pull
Entries 81
Mean −1266
Std Dev 1304

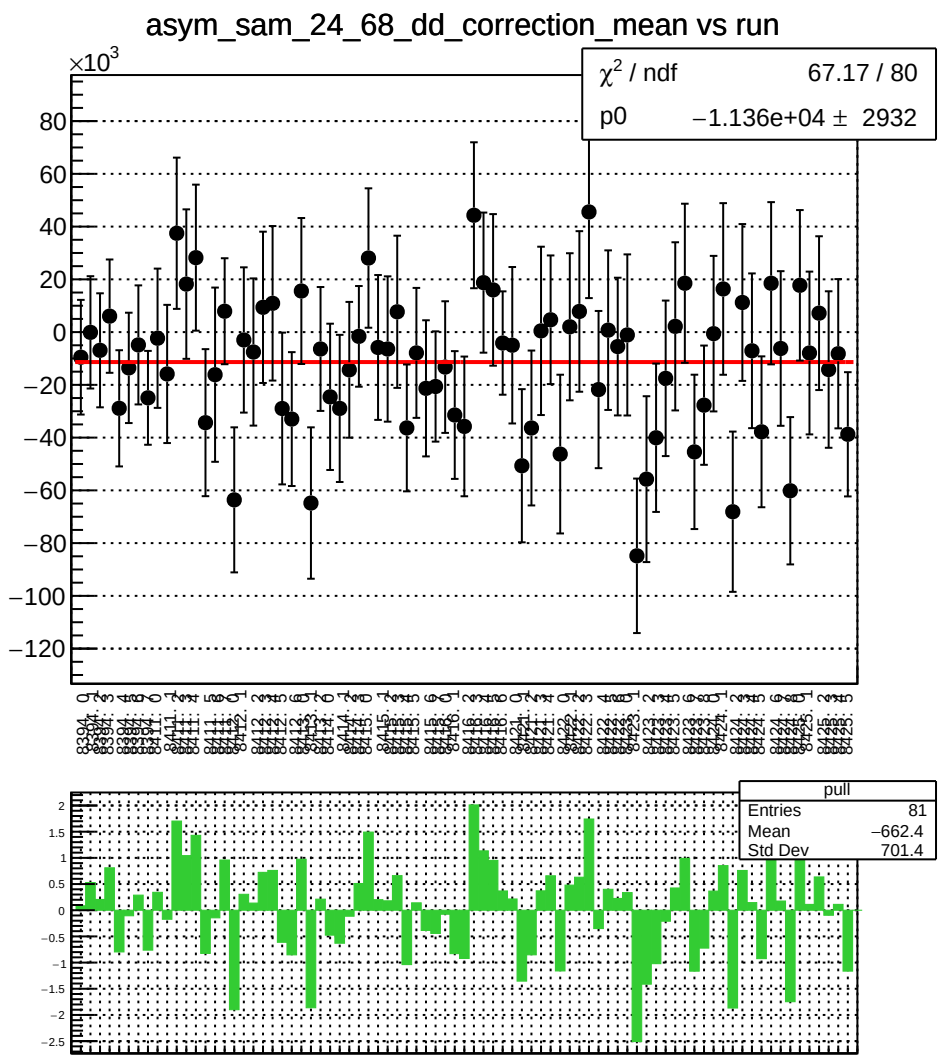

pull1D
Entries 81
Mean 0.001909
Std Dev 0.886

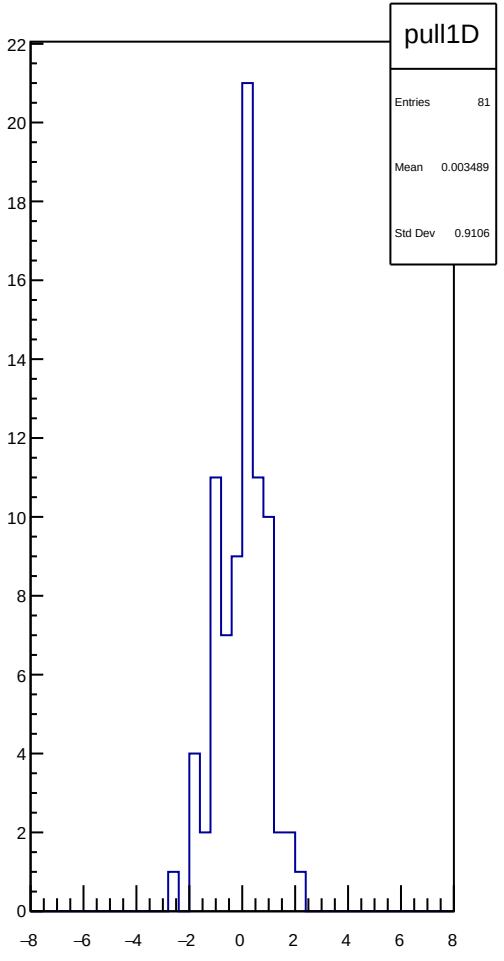

asym_sam_15_37_dd_rms vs run
χ² / ndf 2.359e+04 / 80
p0 943.2 ± 0.7525
1200
1100
1000
900
800
700

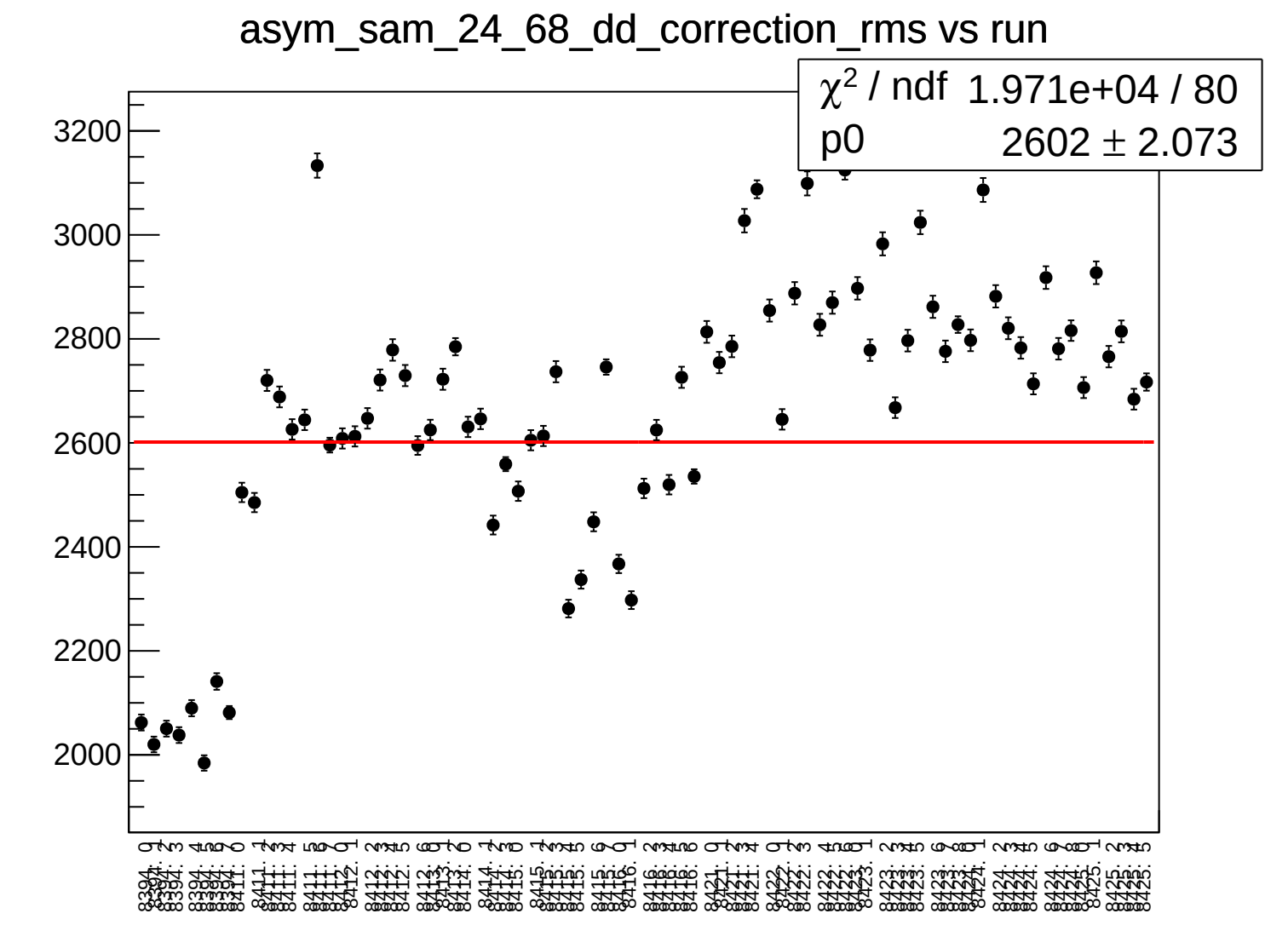

reg_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 83.12 / 80
p0 106.8 ± 109.2
pull
Entries 81
Mean 1764
Std Dev 1737

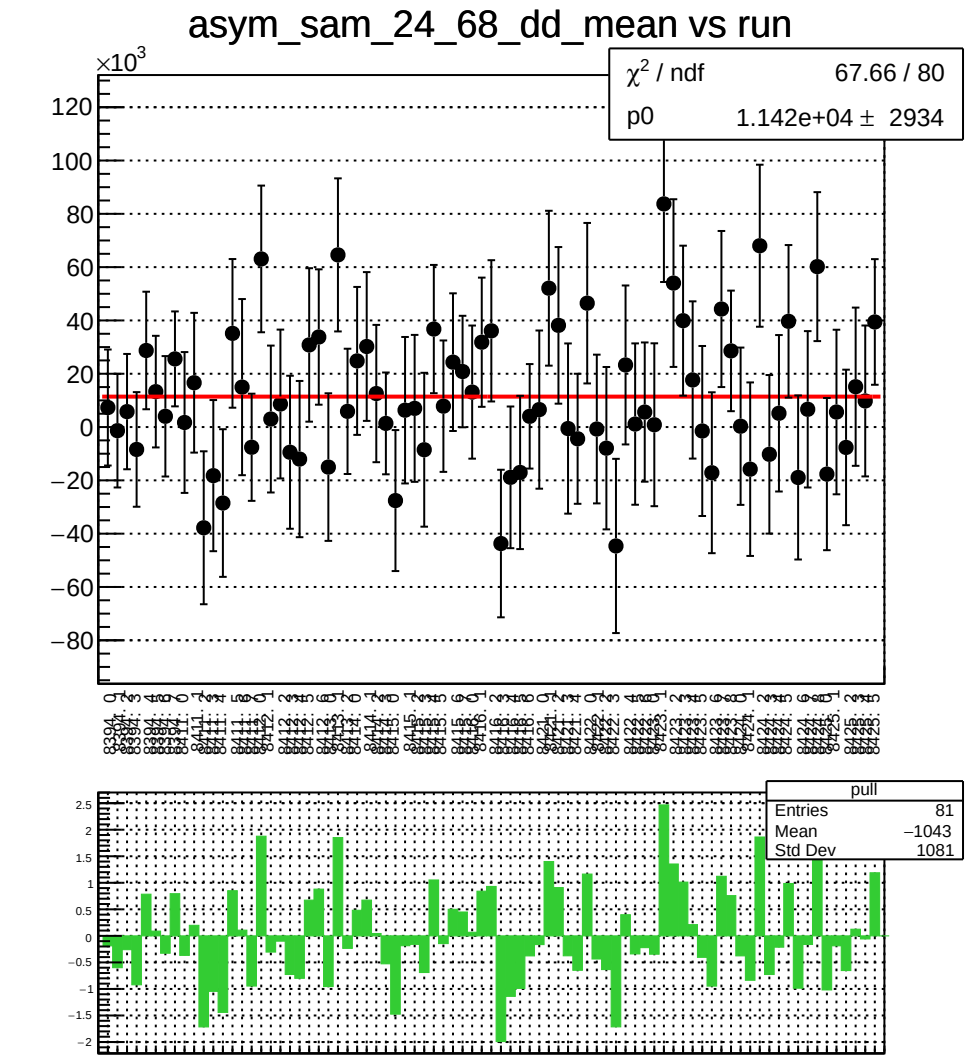

pull1D
Entries 81
Mean 0.003084
Std Dev 1.013

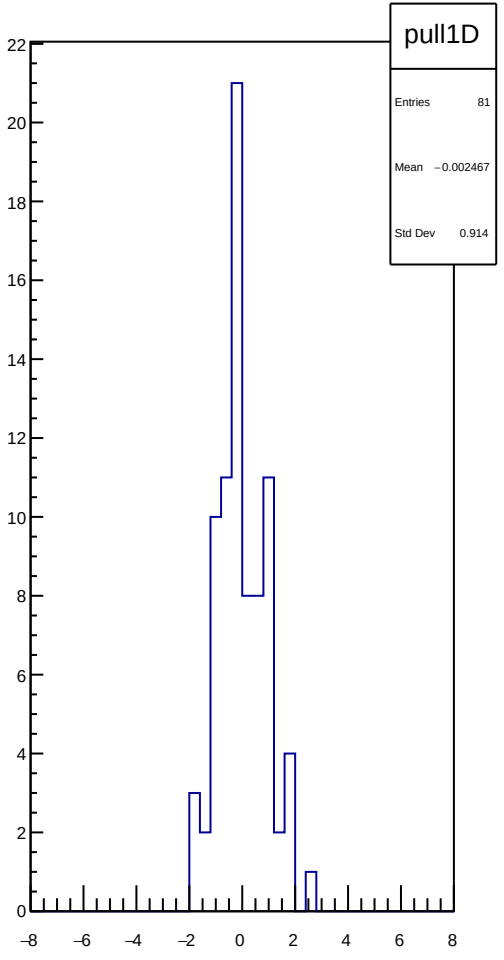

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 4264 / 80
p0 97.37 ± 0.07721
115
110
105
100
95
90
85

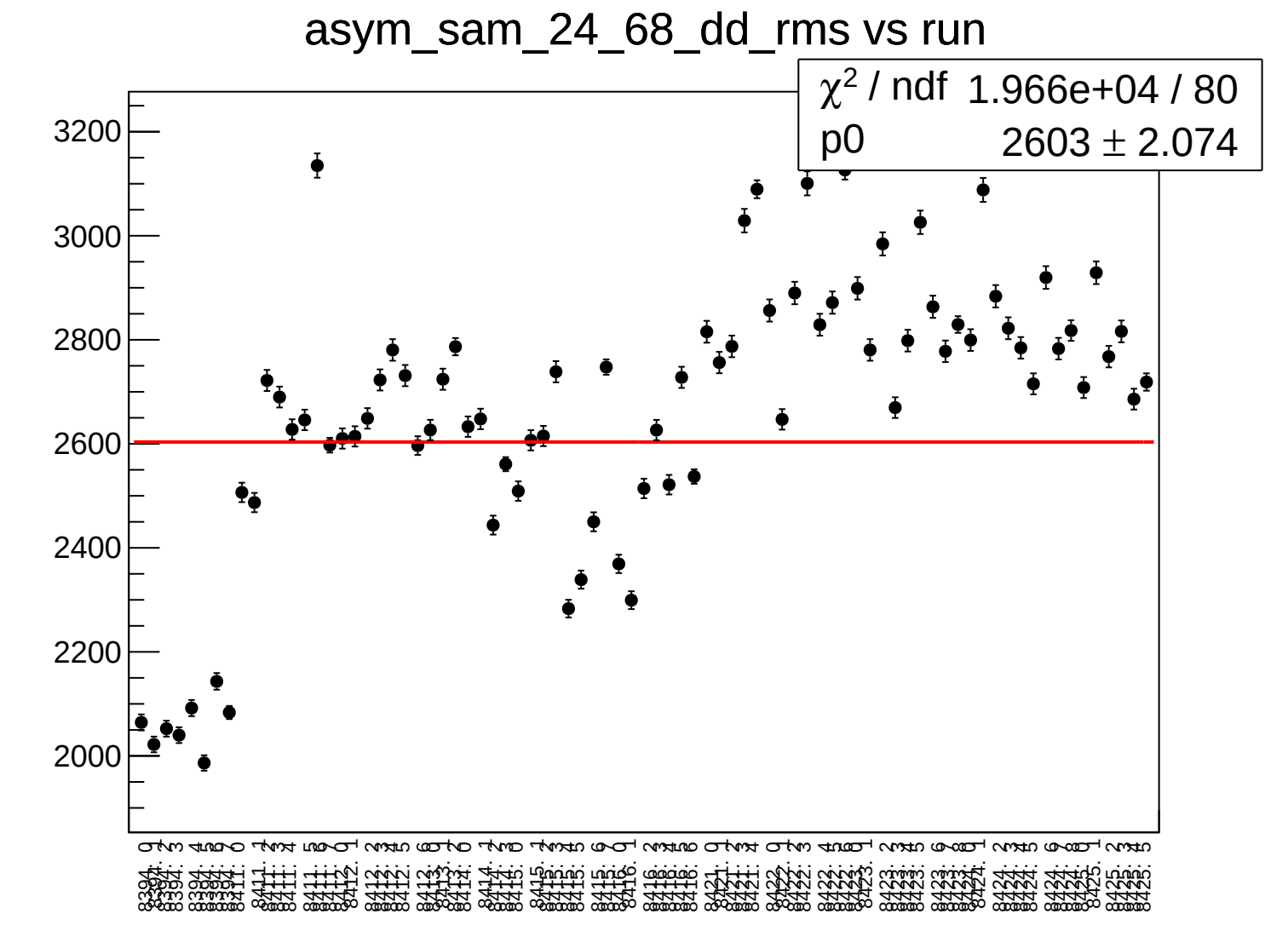

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ² / ndf 67.17 / 80
p0 −1.136e+04 ± 2932
pull
Entries 81
Mean −662.4
Std Dev 701.4

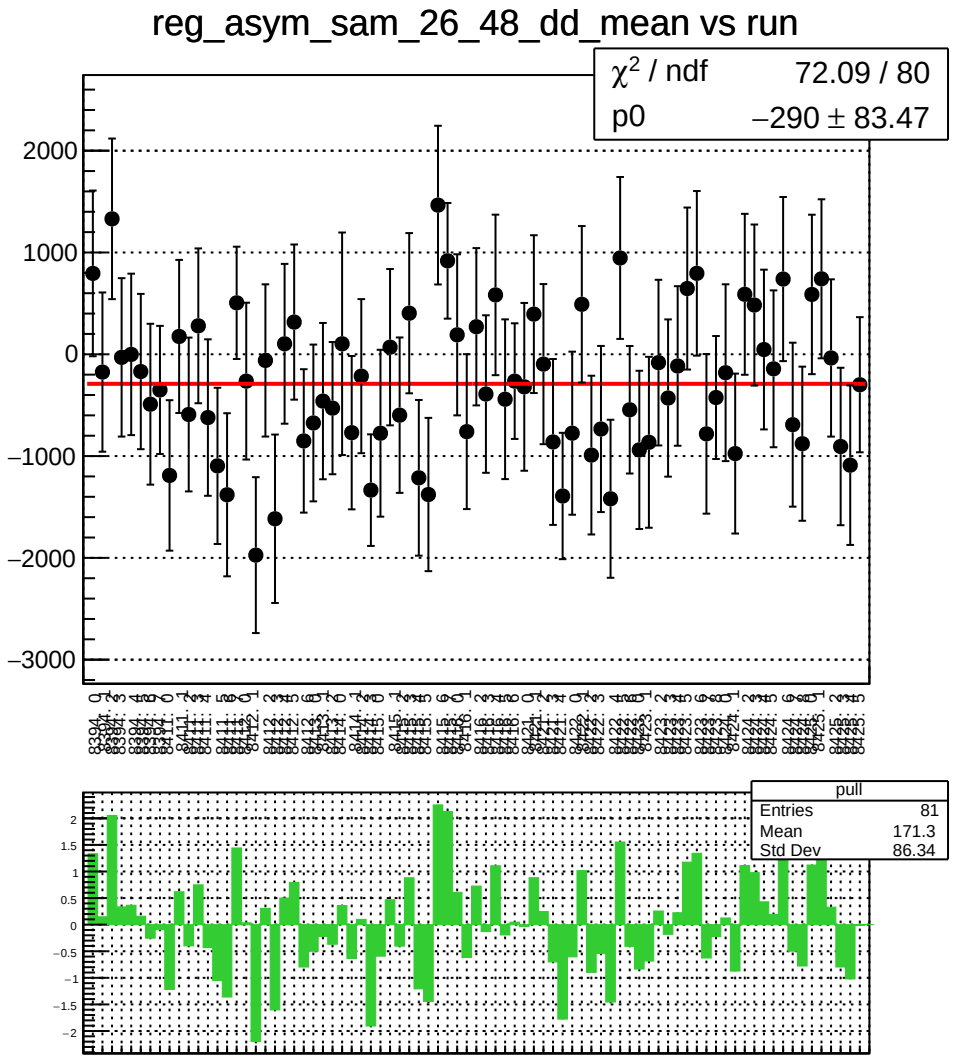

pull1D
Entries 81
Mean 0.003489
Std Dev 0.9106

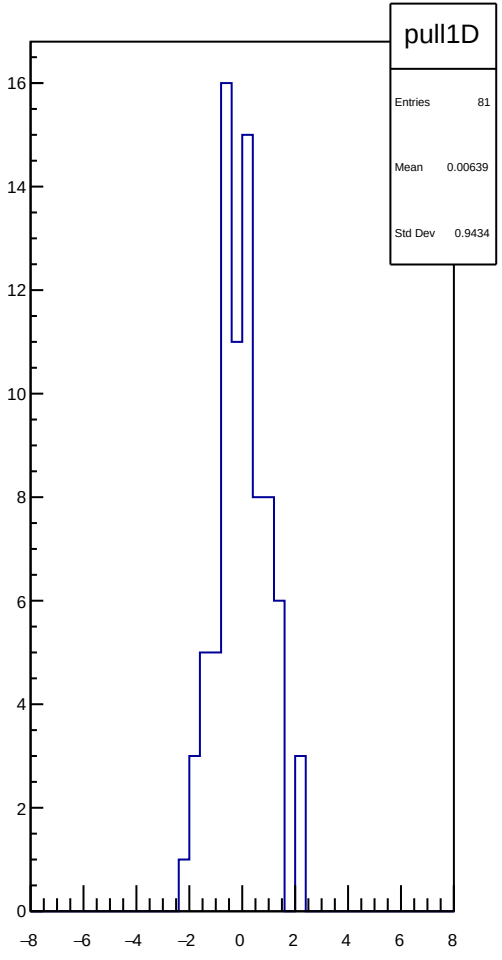

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 1.971e+04 / 80
p0 2602 ± 2.073
3200
3000
2800
2600
2400
2200
2000

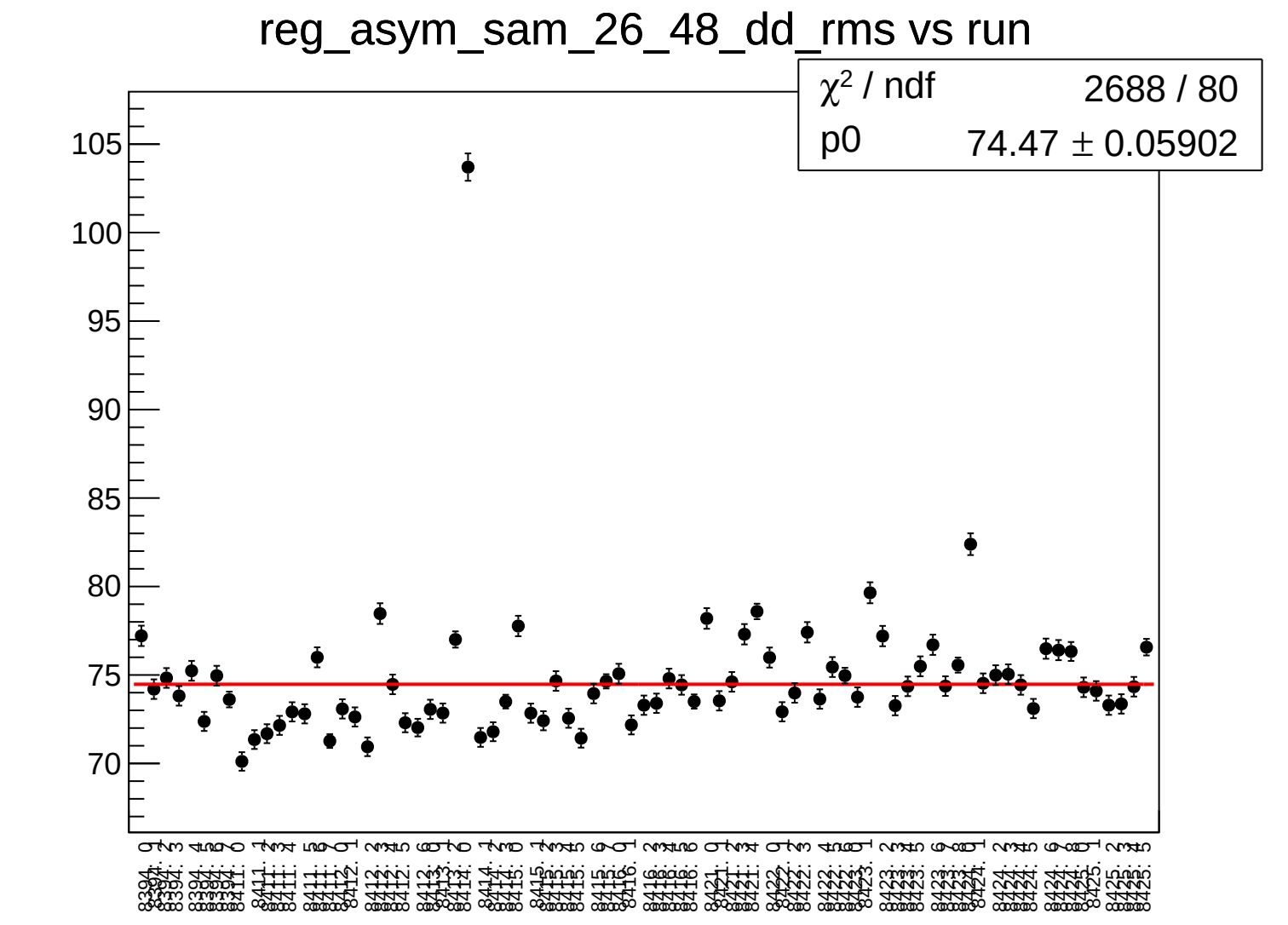

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 67.66 / 80
p0 1.142e+04 ± 2934
pull
Entries 81
Mean −1043
Std Dev 1081

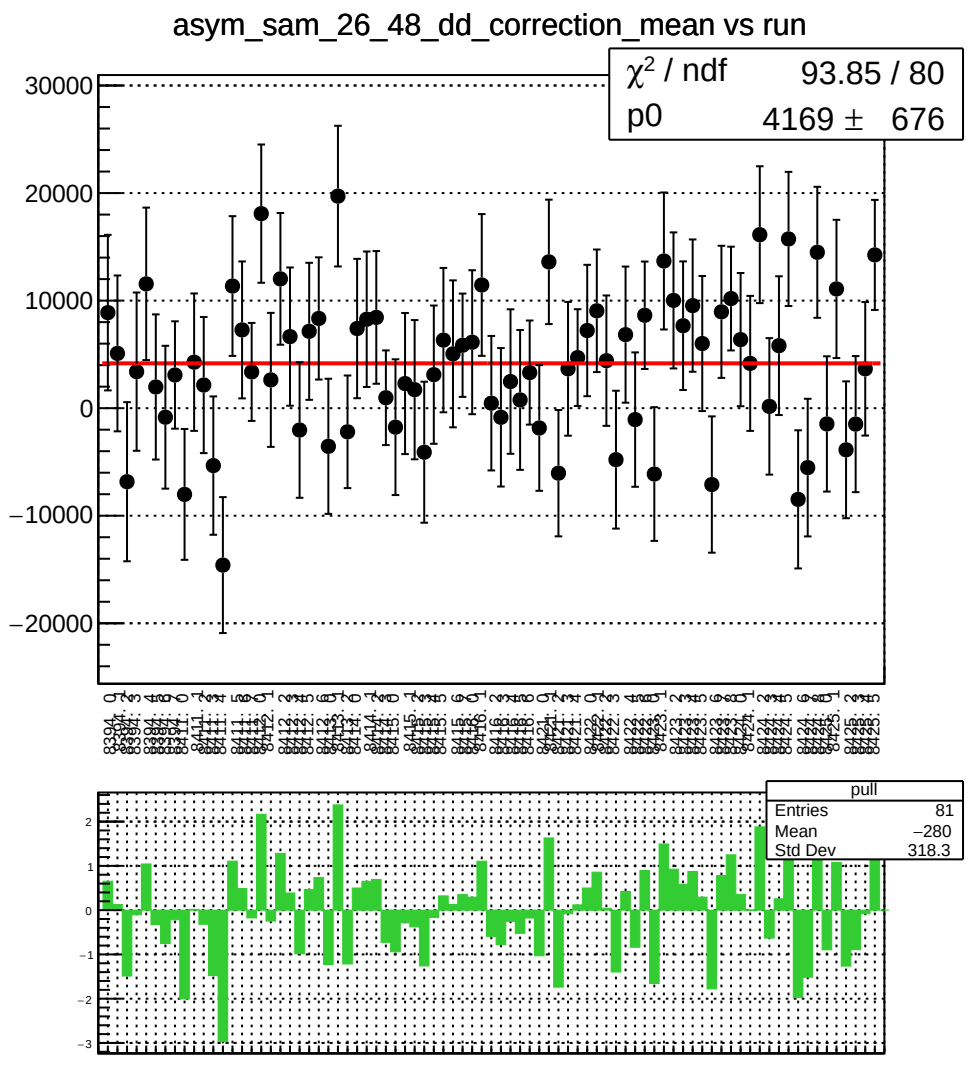

pull1D
Entries 81
Mean −0.002467
Std Dev 0.914

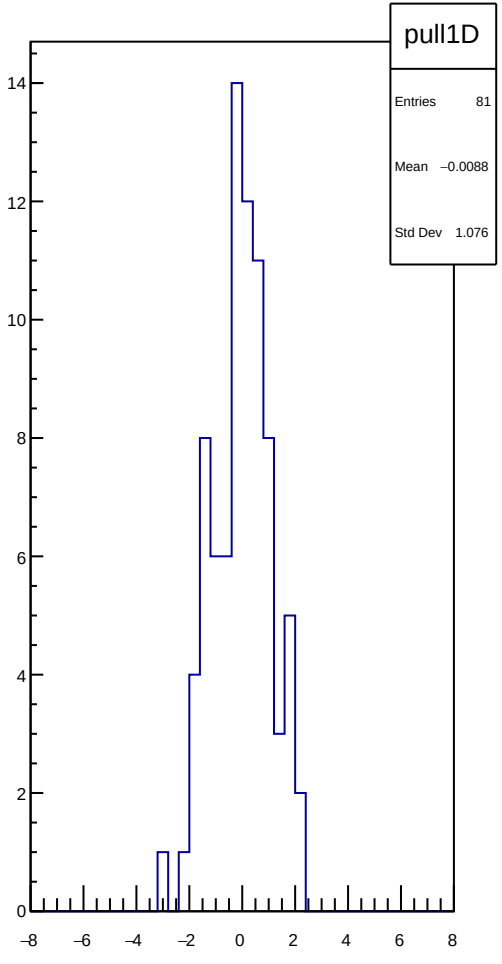

asym_sam_24_68_dd_rms vs run
χ² / ndf 1.966e+04 / 80
p0 2603 ± 2.074
3200
3000
2800
2600
2400
2200
2000

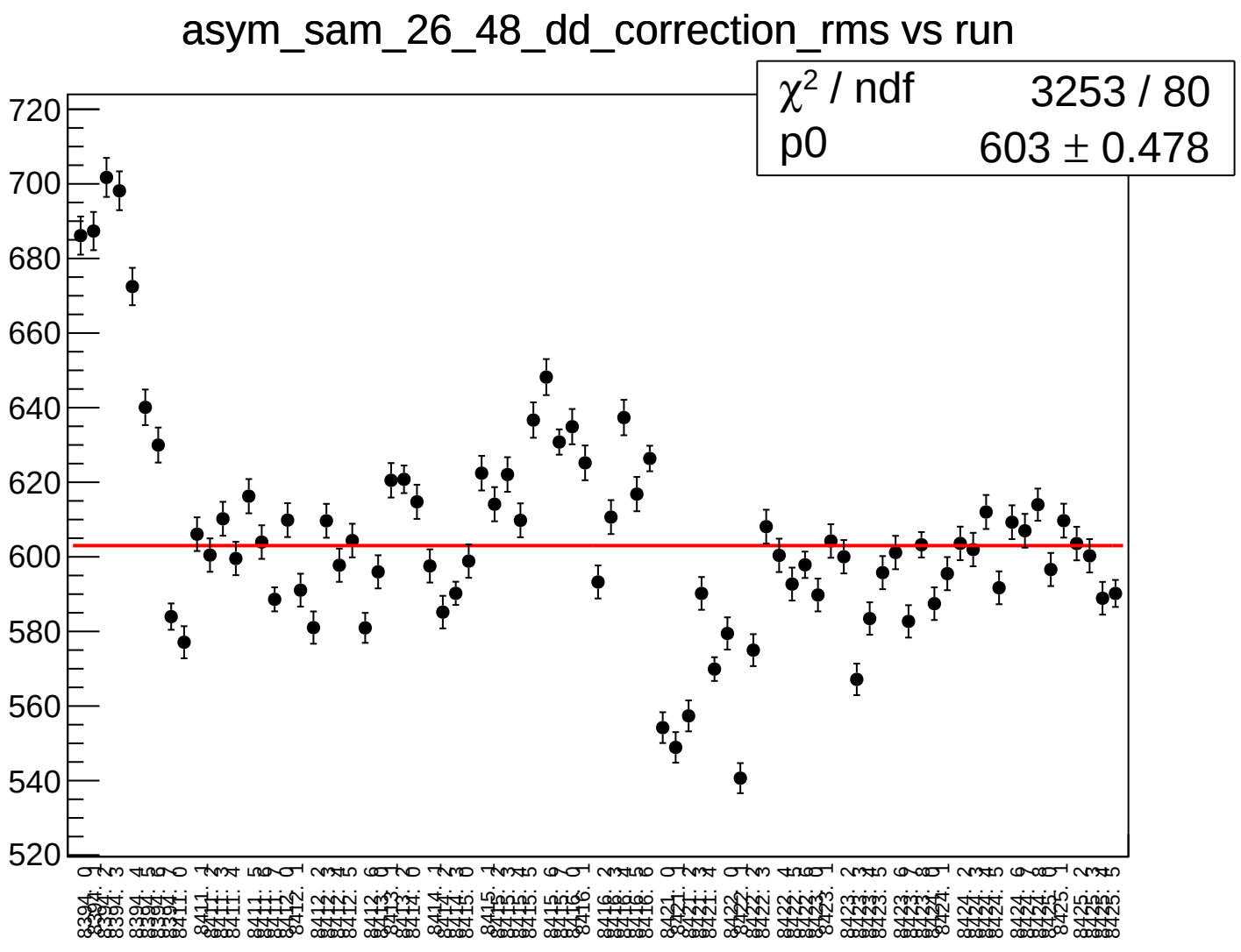

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 72.09 / 80
p0 −290 ± 83.47
pull
Entries 81
Mean 171.3
Std Dev 86.34

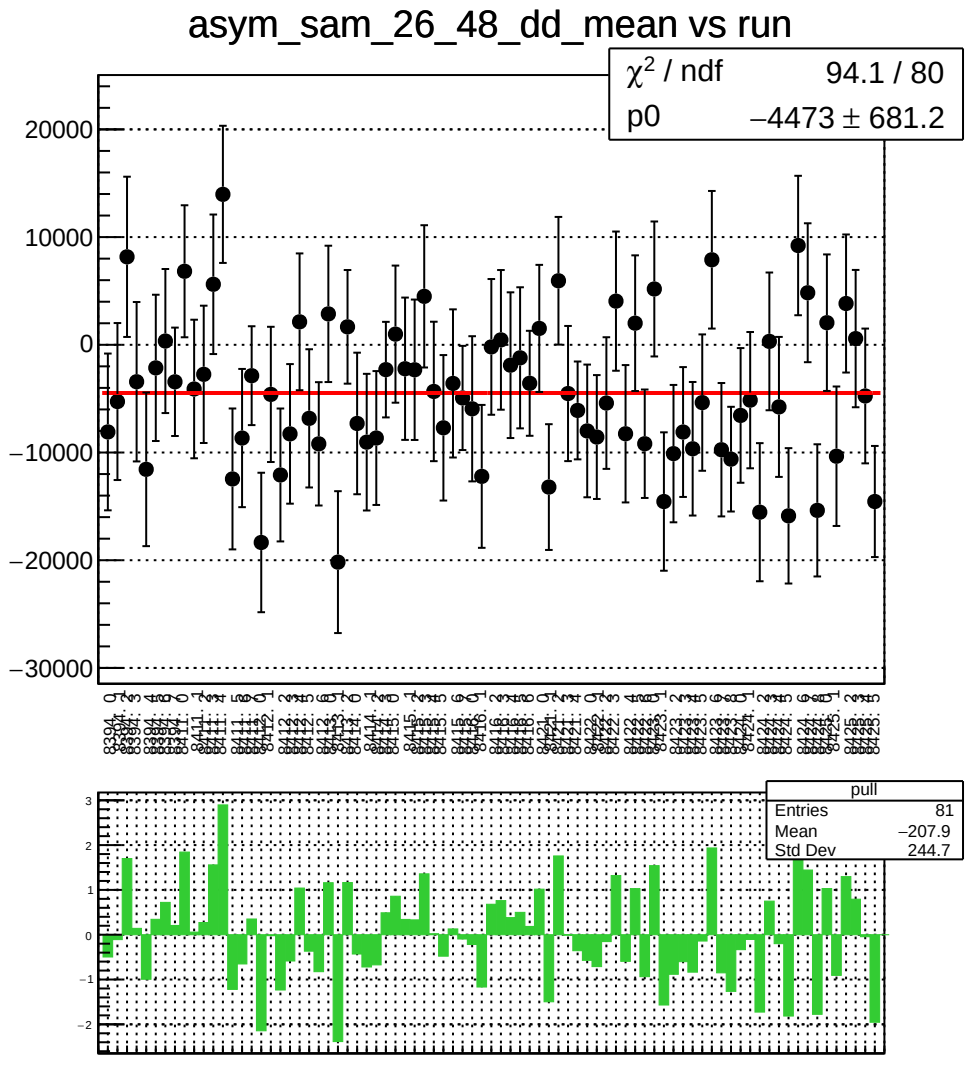

pull1D
Entries 81
Mean 0.00639
Std Dev 0.9434

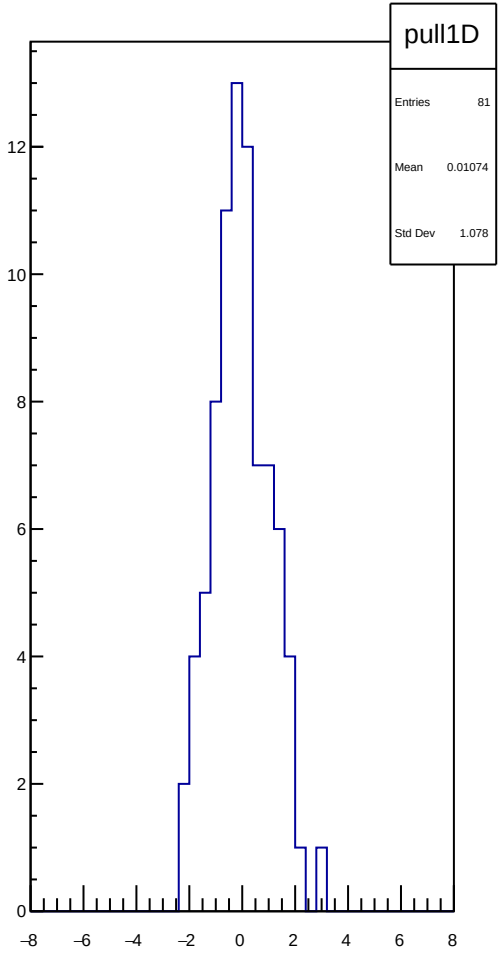

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 2688 / 80
p0 74.47 ± 0.05902
105
100
95
90
85
80
75
70

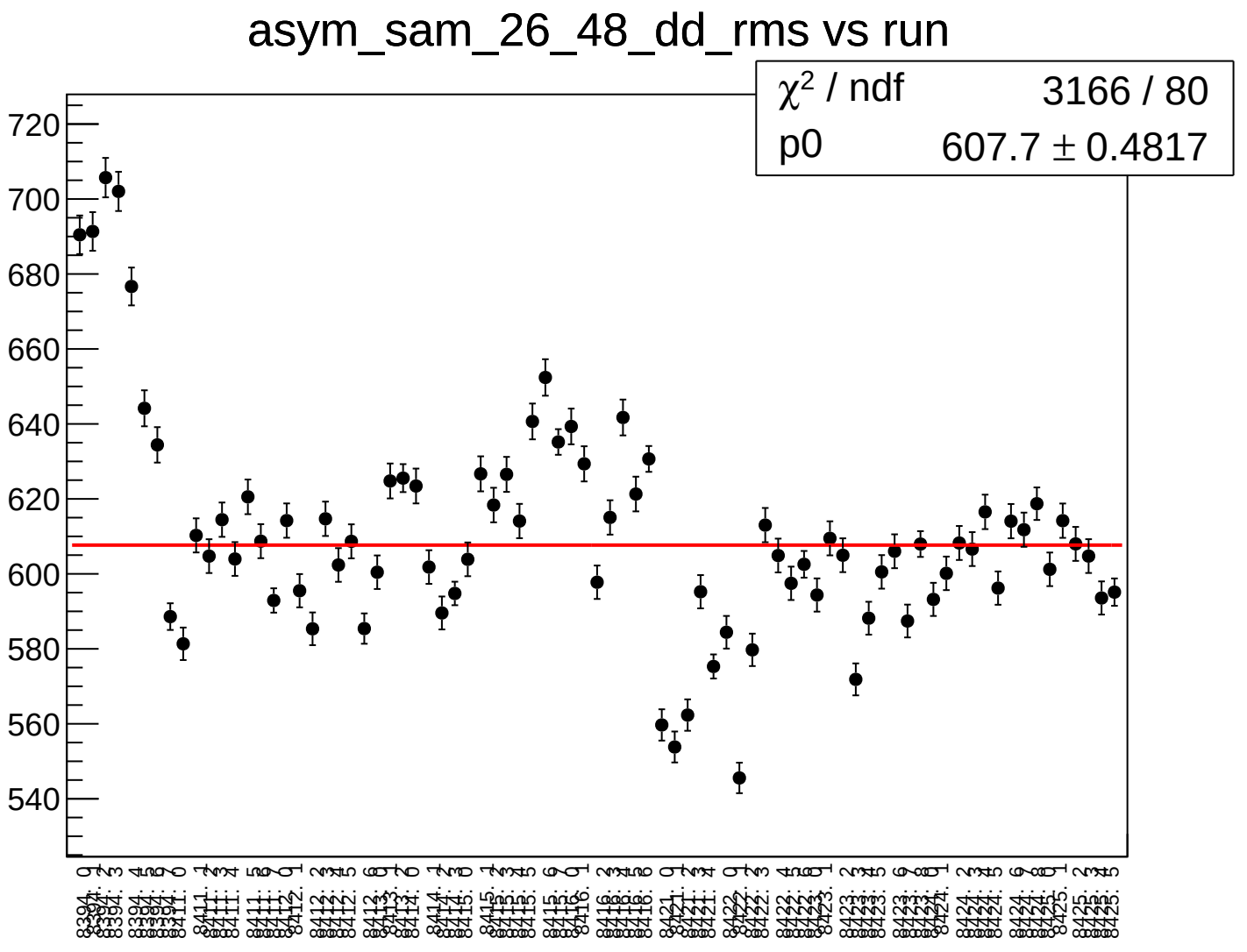

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 93.85 / 80
p0 4169 ± 676
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −280
Std Dev 318.3
2
1
0
−1
−2
−3

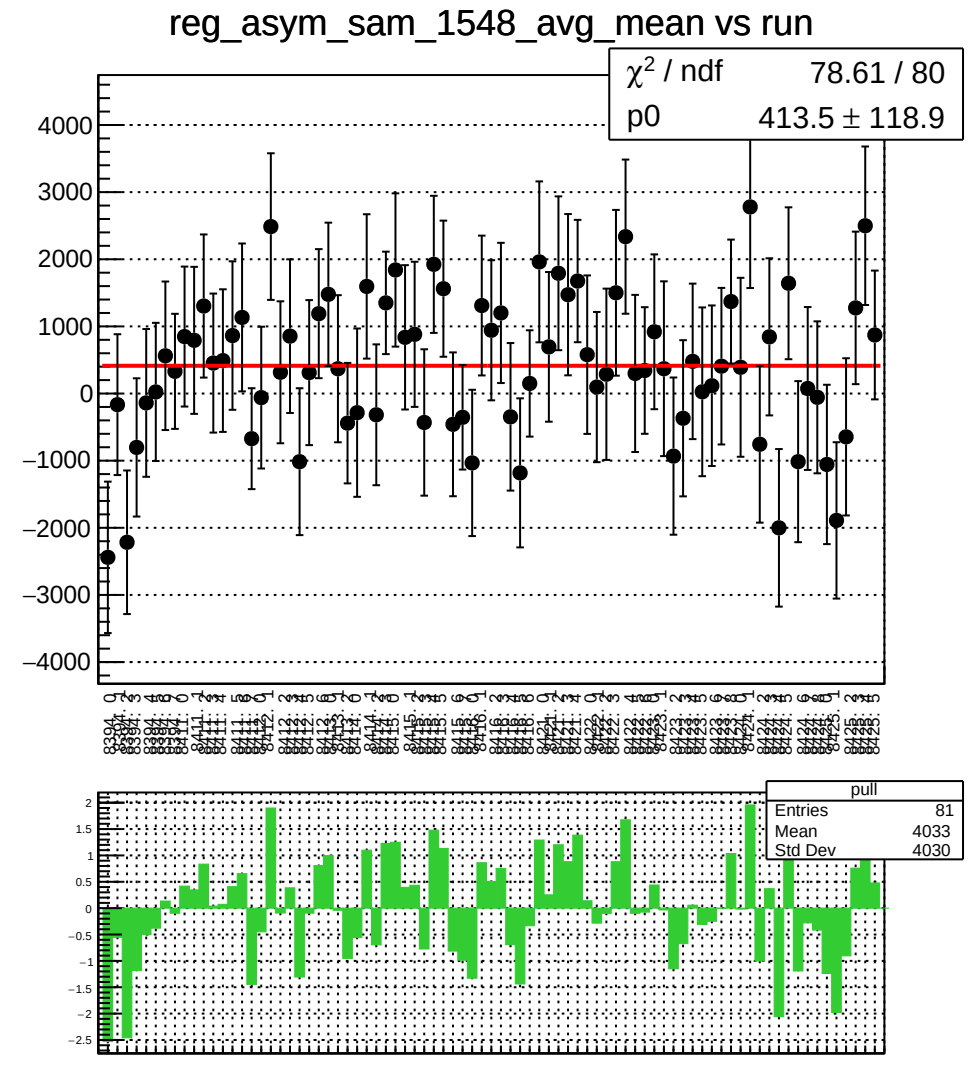

pull1D
Entries 81
Mean −0.0088
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

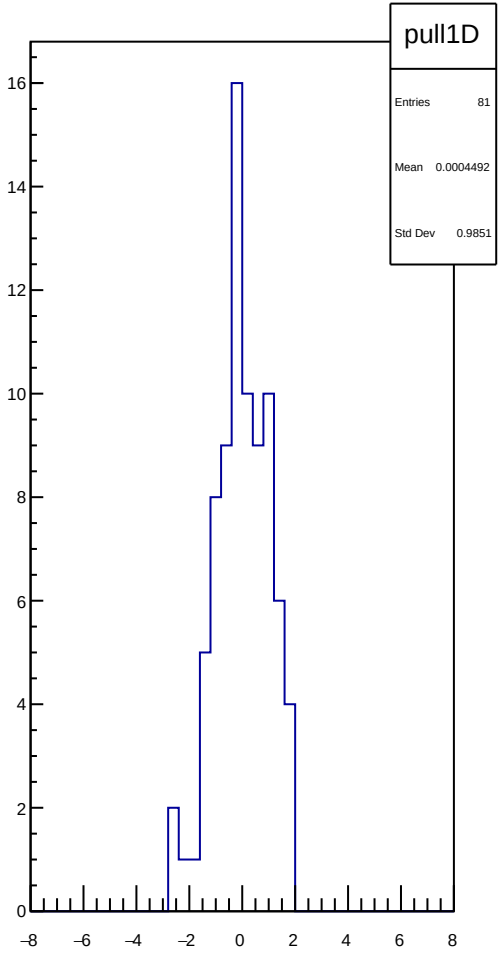

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 3253 / 80
p0 603 ± 0.478
720
700
680
660
640
620
600
580
560
540
520

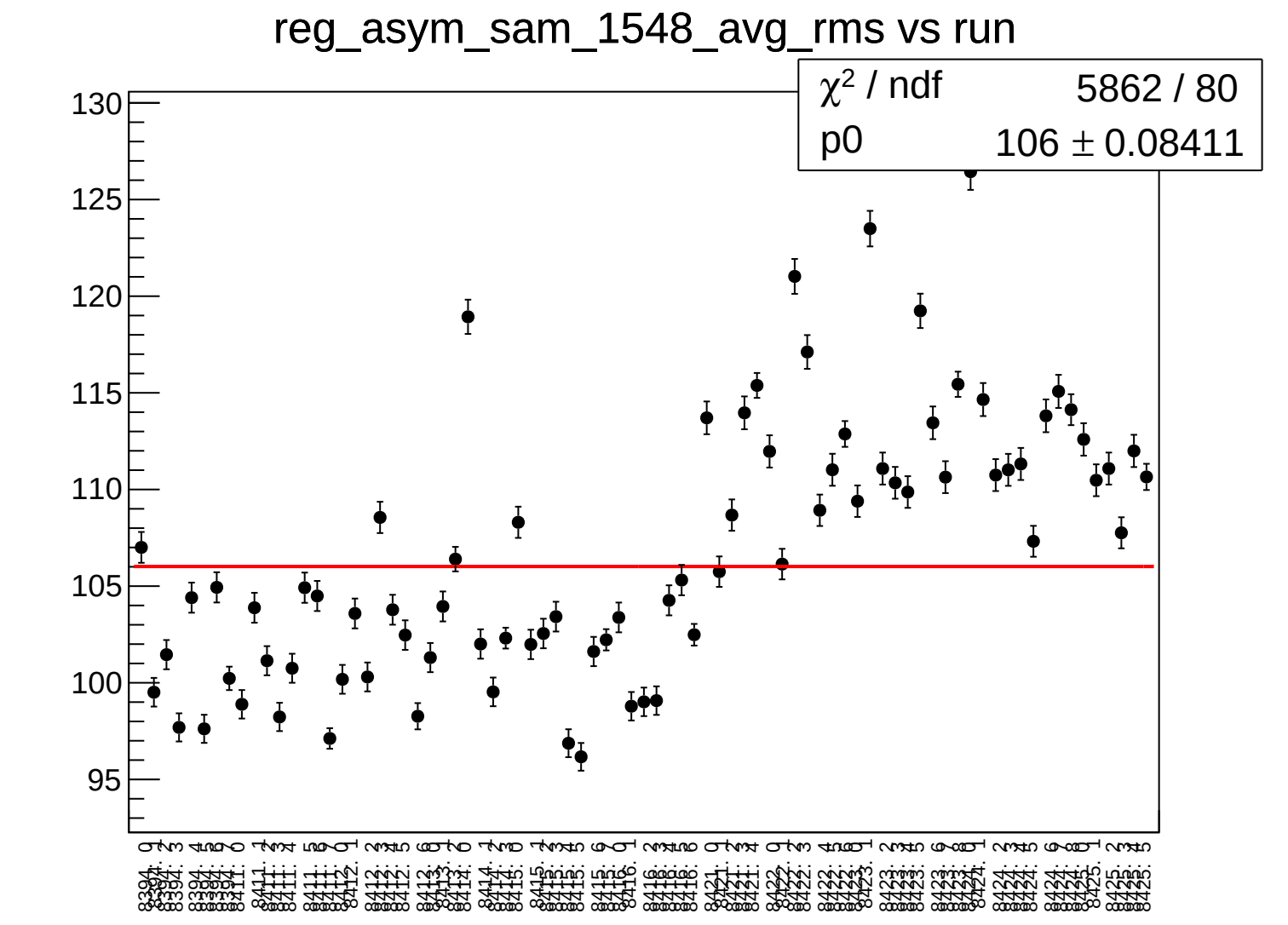

asym_sam_26_48_dd_mean vs run
χ² / ndf 94.1 / 80
p0 −4473 ± 681.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −207.9
Std Dev 244.7
3
2
1
0
−1
−2

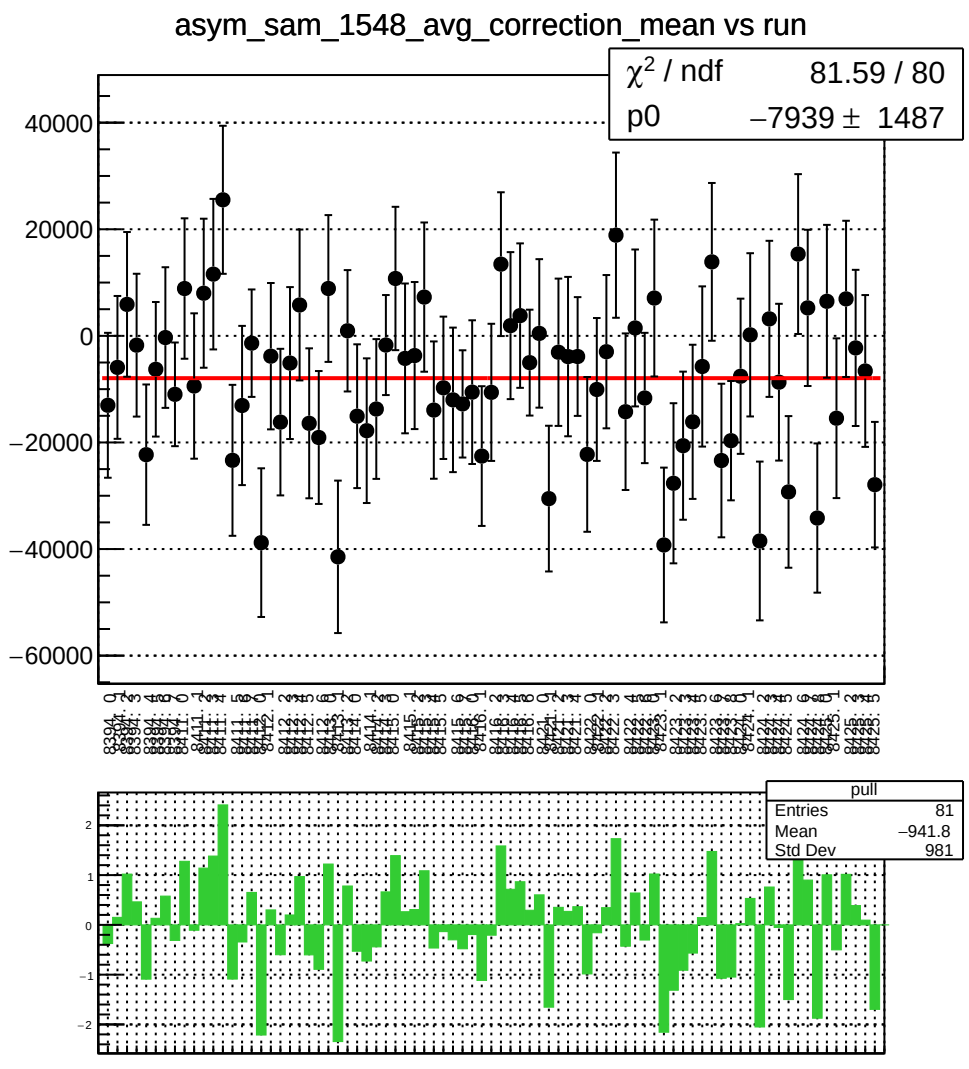

pull1D
Entries 81
Mean 0.01074
Std Dev 1.078
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

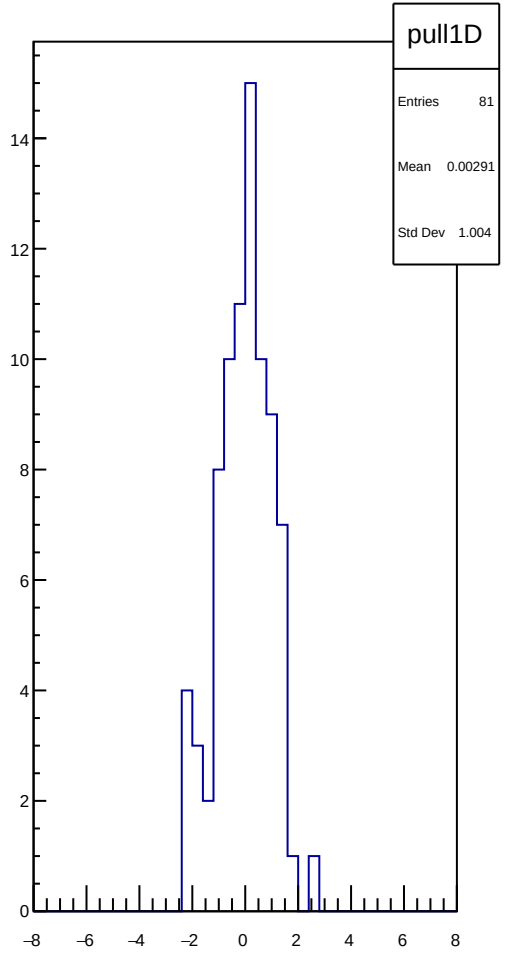

asym_sam_26_48_dd_rms vs run
χ² / ndf 3166 / 80
p0 607.7 ± 0.4817
720
700
680
660
640
620
600
580
560
540

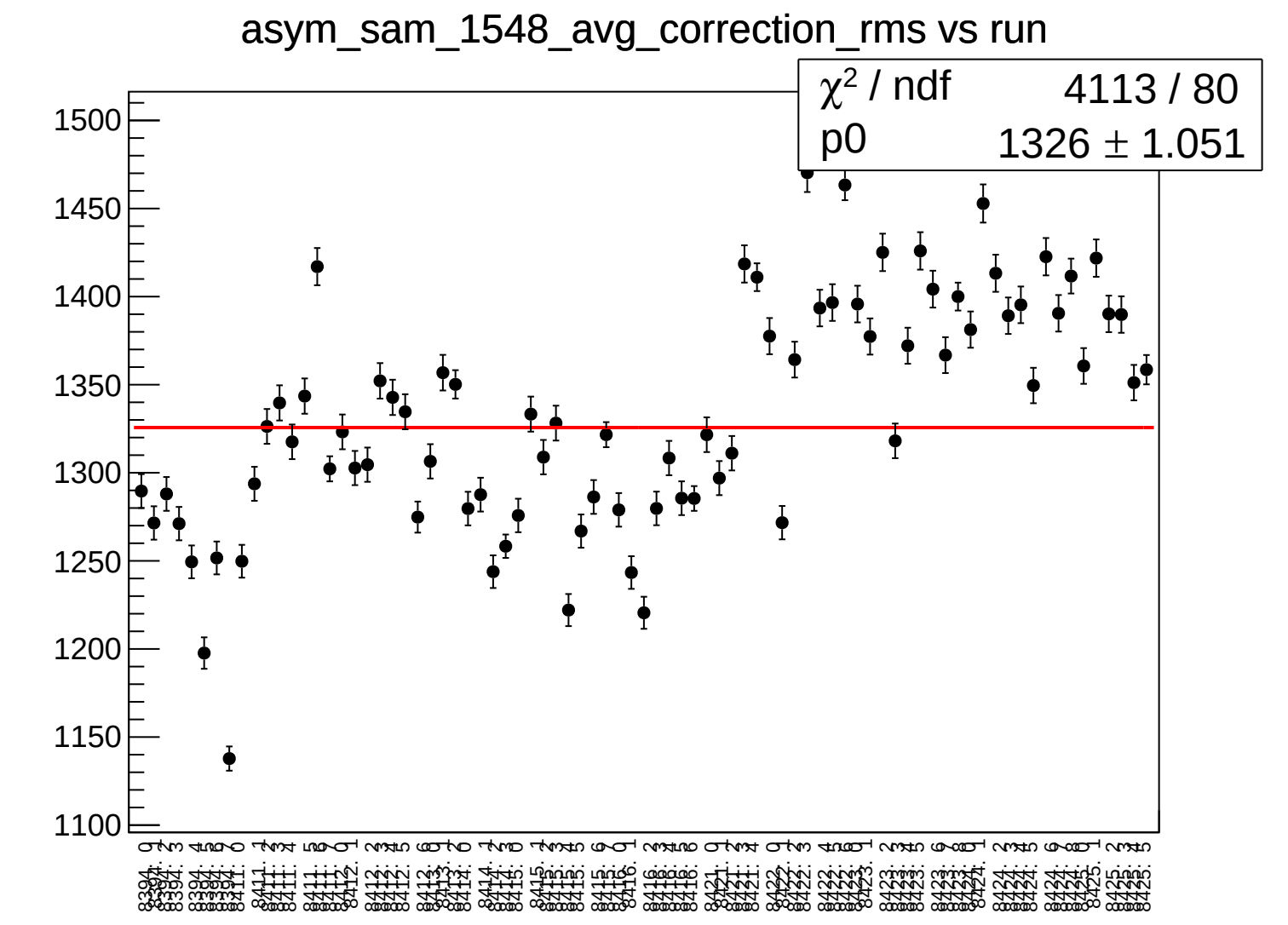

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 78.61 / 80
p0 413.5 ± 118.9
pull
Entries 81
Mean 4033
Std Dev 4030

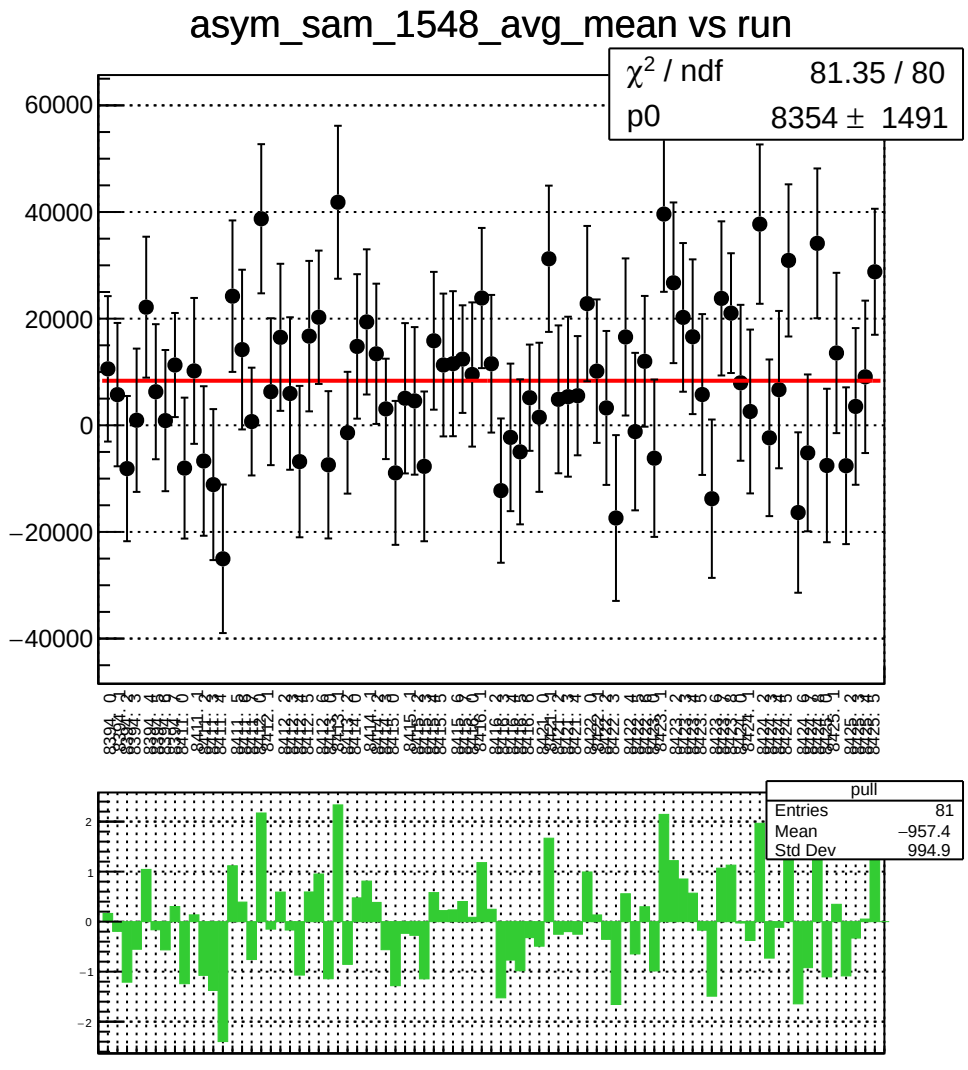

pull1D
Entries 81
Mean 0.0004492
Std Dev 0.9851

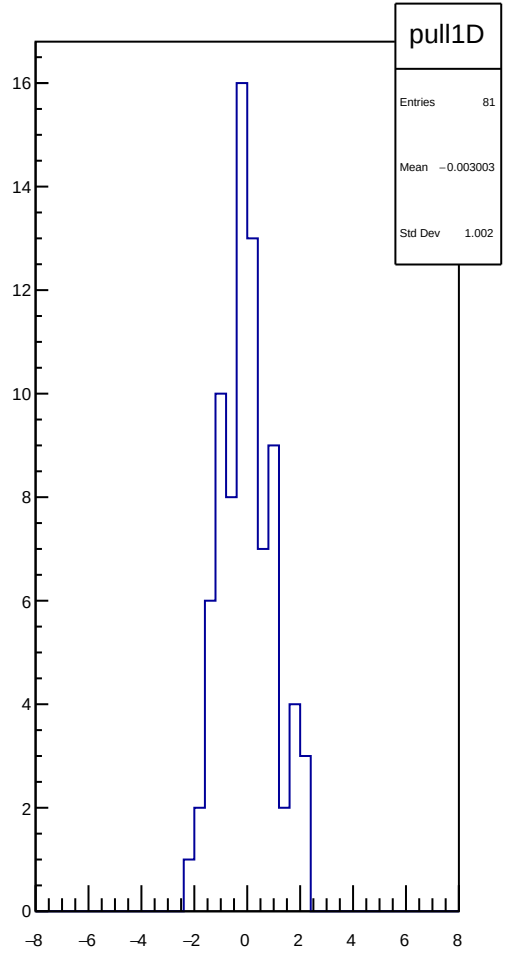

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 5862 / 80
p0 106 ± 0.08411
130
125
120
115
110
105
100
95

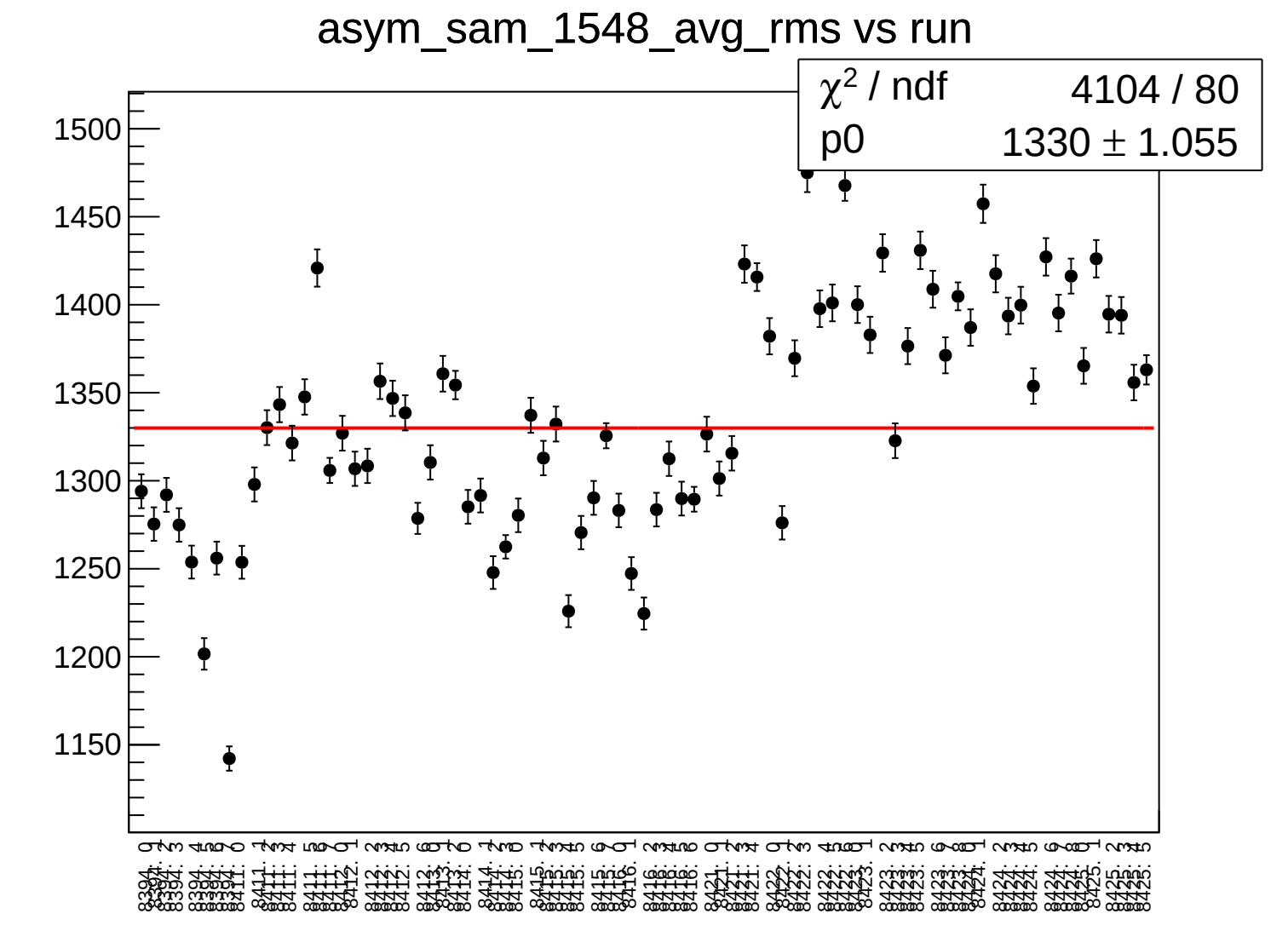

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 81.59 / 80
p0 −7939 ± 1487
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −941.8
Std Dev 981
2
1
0
−1
−2

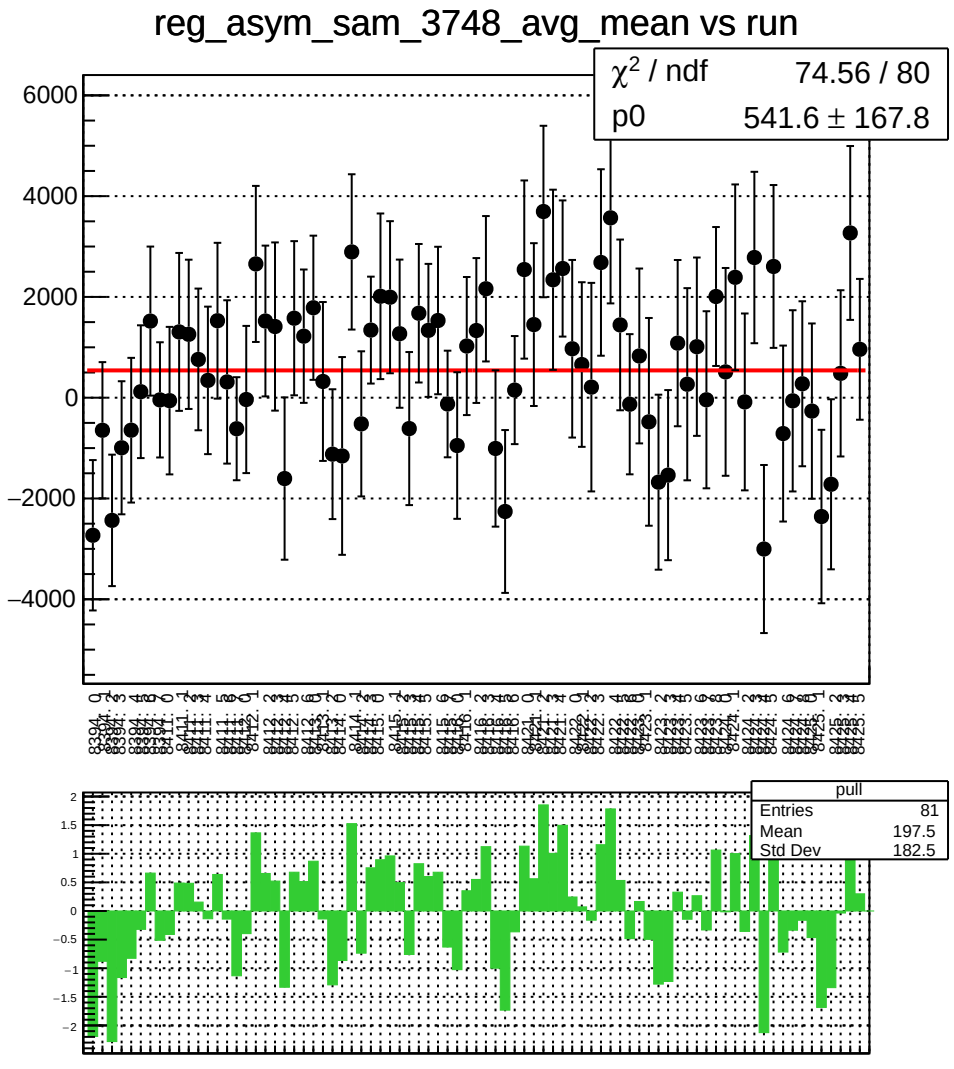

pull1D
Entries 81
Mean 0.00291
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

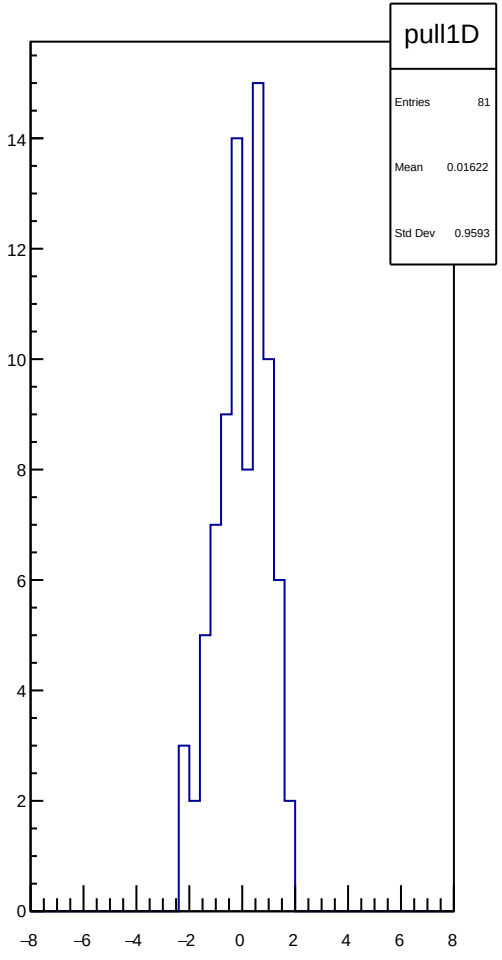

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 4113 / 80
p0 1326 ± 1.051
1500
1450
1400
1350
1300
1250
1200
1150
1100

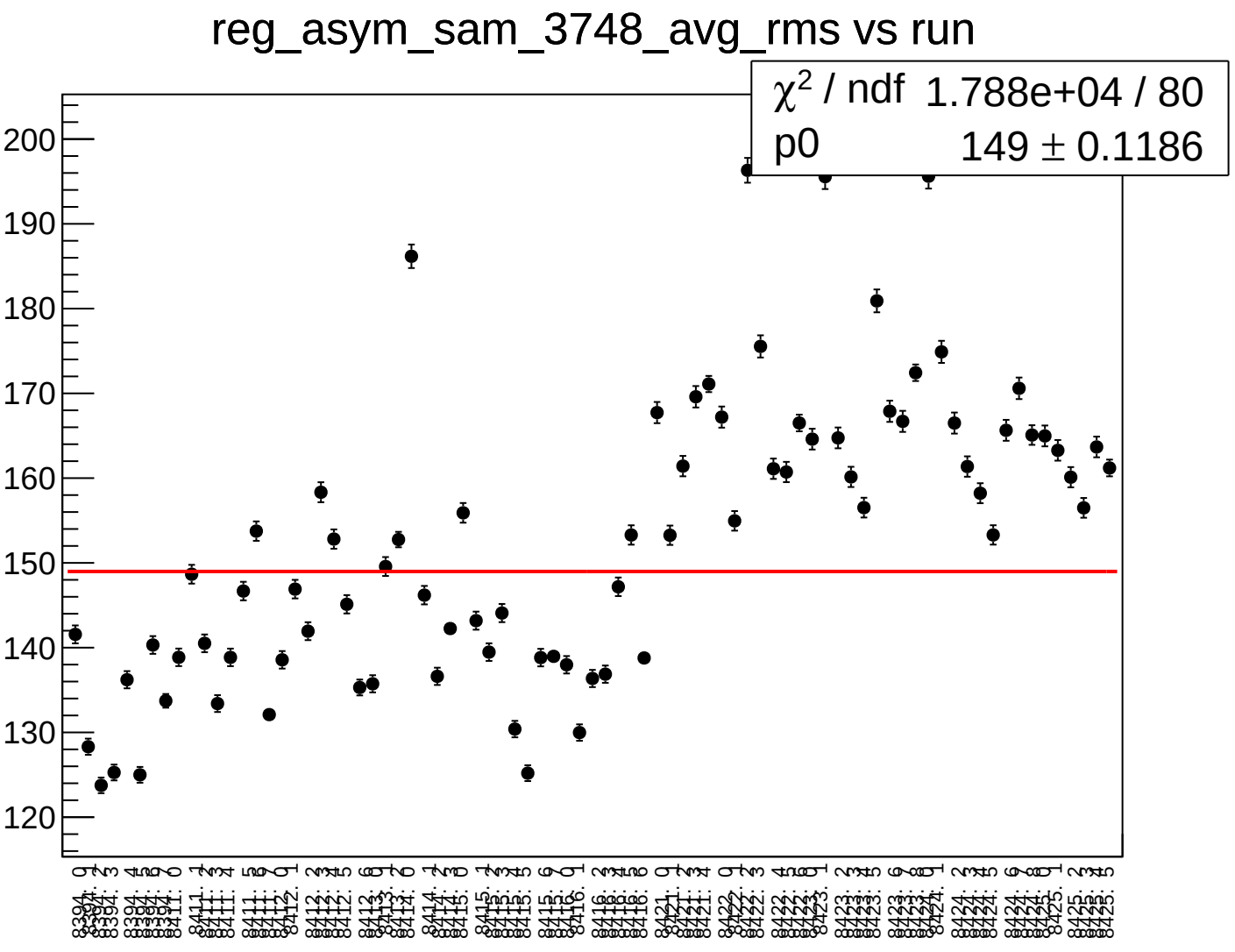

asym_sam_1548_avg_mean vs run
χ² / ndf 81.35 / 80
p0 8354 ± 1491
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −957.4
Std Dev 994.9
2
1
0
−1
−2

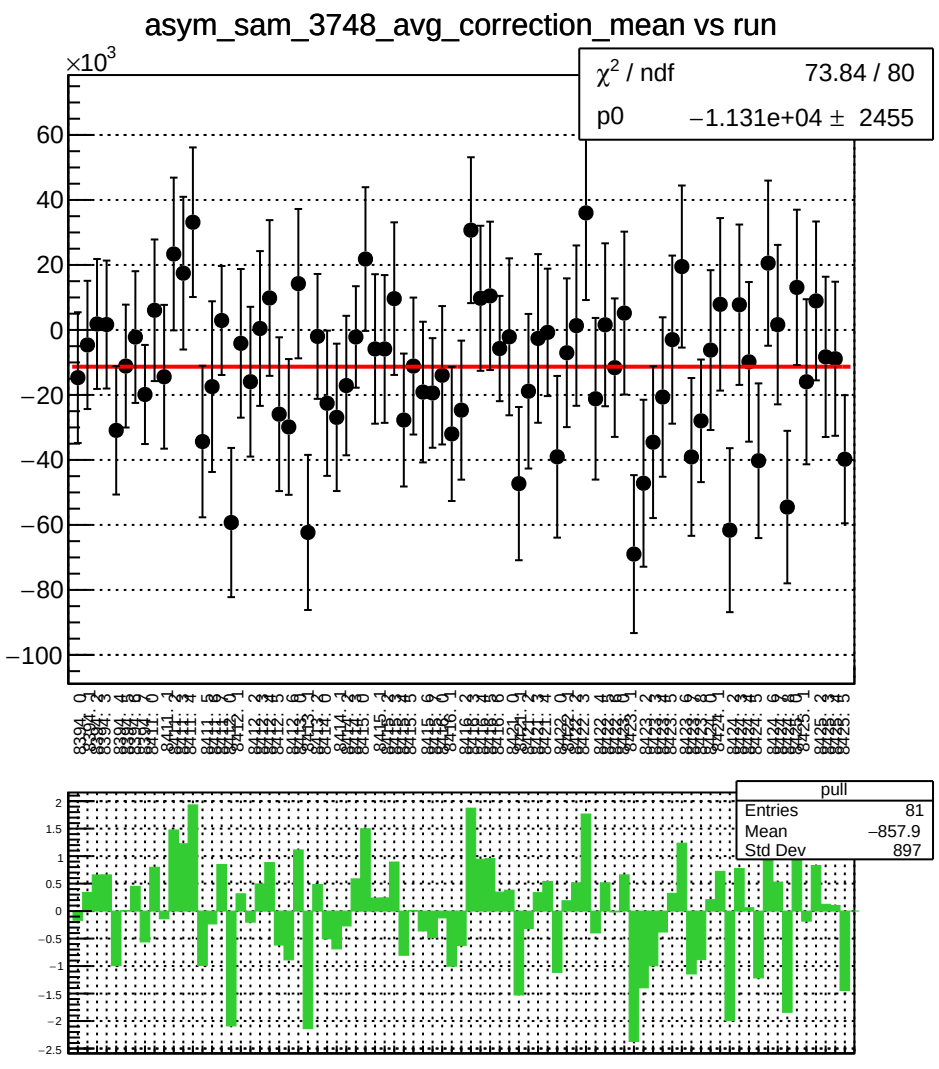

pull1D
Entries 81
Mean −0.003003
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

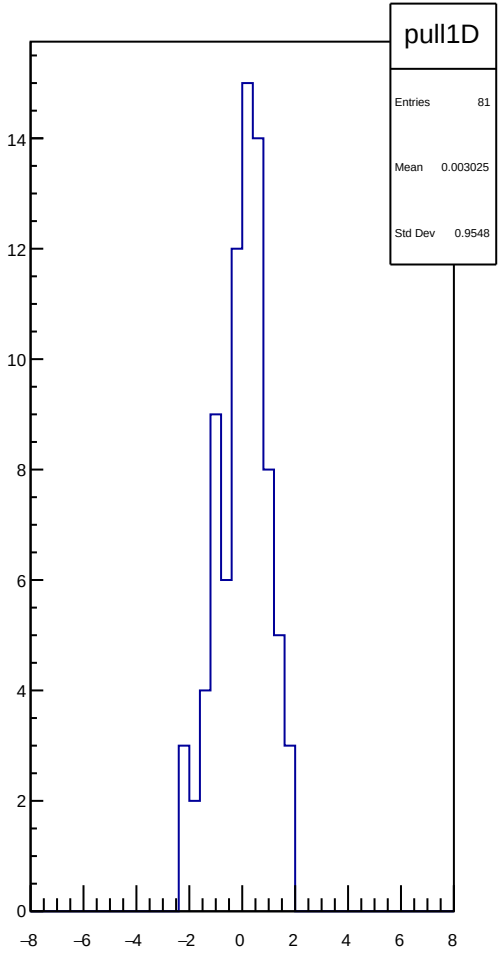

asym_sam_1548_avg_rms vs run
χ² / ndf 4104 / 80
p0 1330 ± 1.055
1500
1450
1400
1350
1300
1250
1200
1150

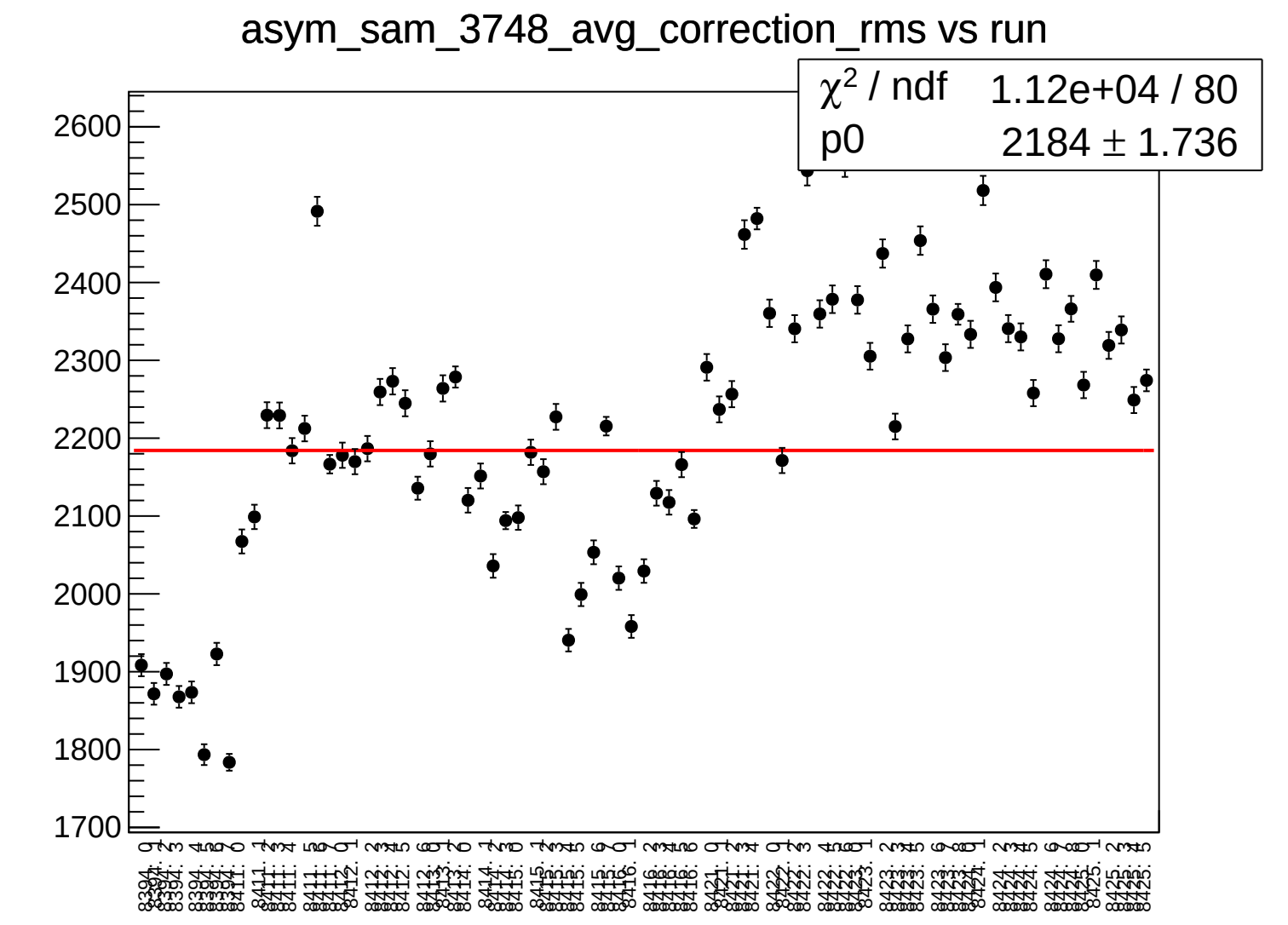

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 74.56 / 80
p0 541.6 ± 167.8
pull
Entries 81
Mean 197.5
Std Dev 182.5

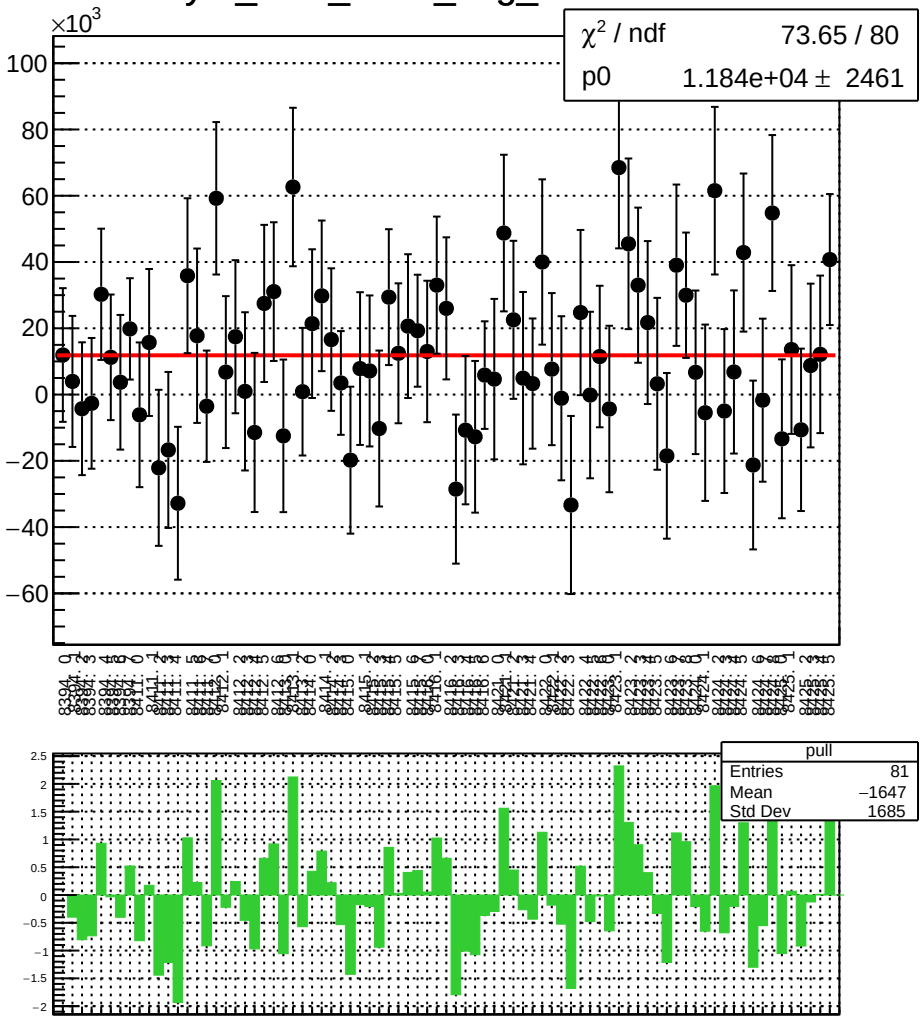

pull1D
Entries 81
Mean 0.01622
Std Dev 0.9593

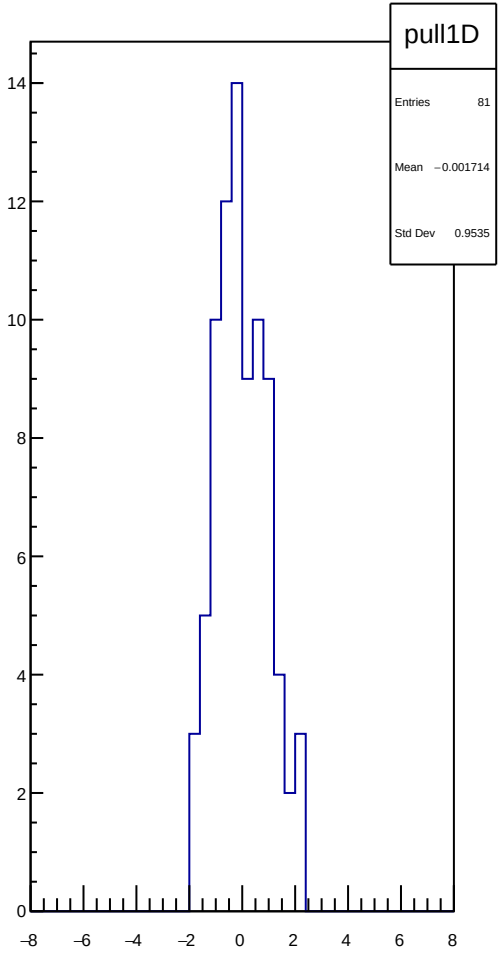

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.788e+04 / 80
p0 149 ± 0.1186
200
190
180
170
160
150
140
130
120

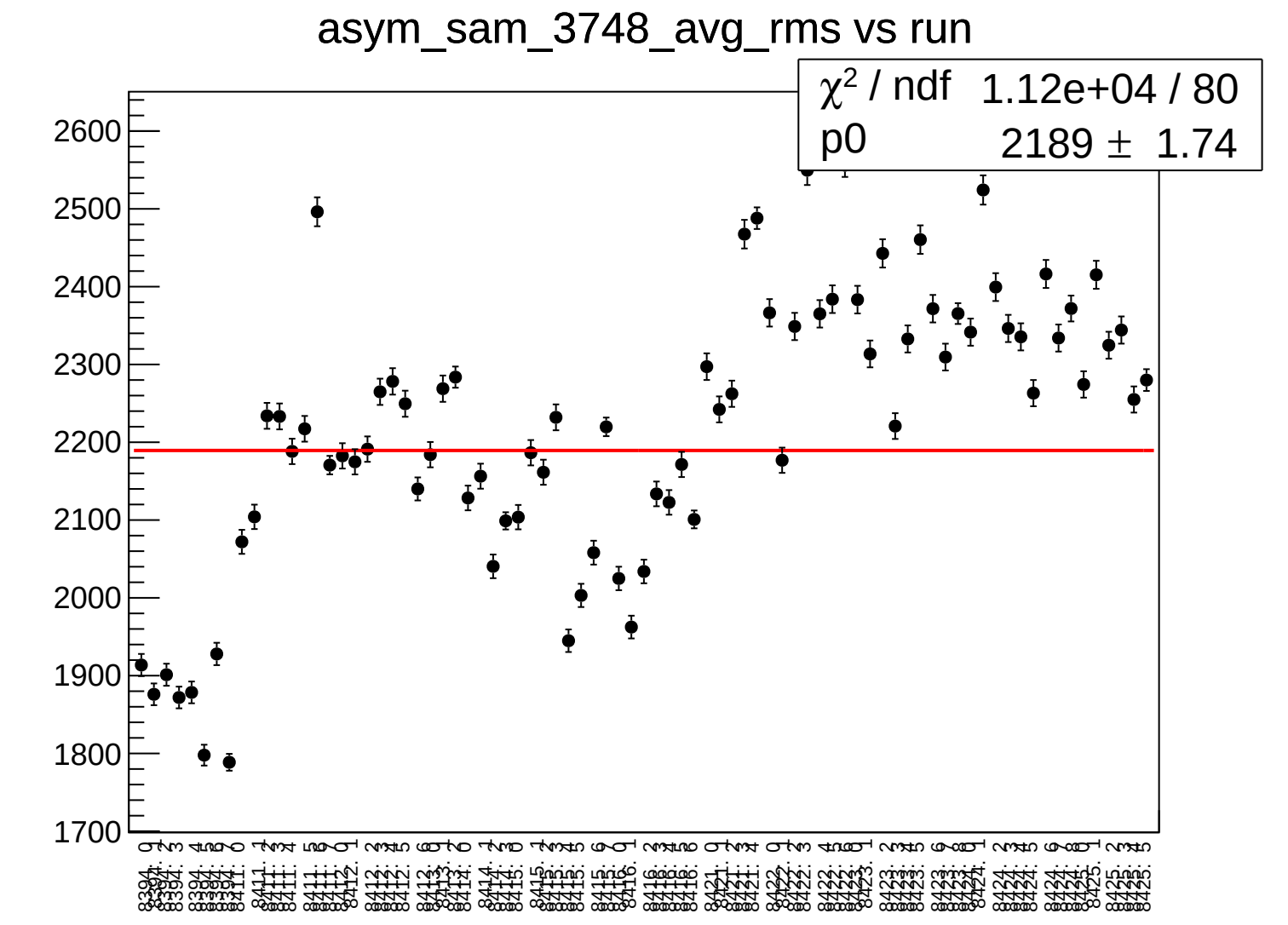

asym_sam_3748_avg_correction_mean vs run
×10^3
χ² / ndf 73.84 / 80
p0 −1.131e+04 ± 2455
pull
Entries 81
Mean −857.9
Std Dev 897

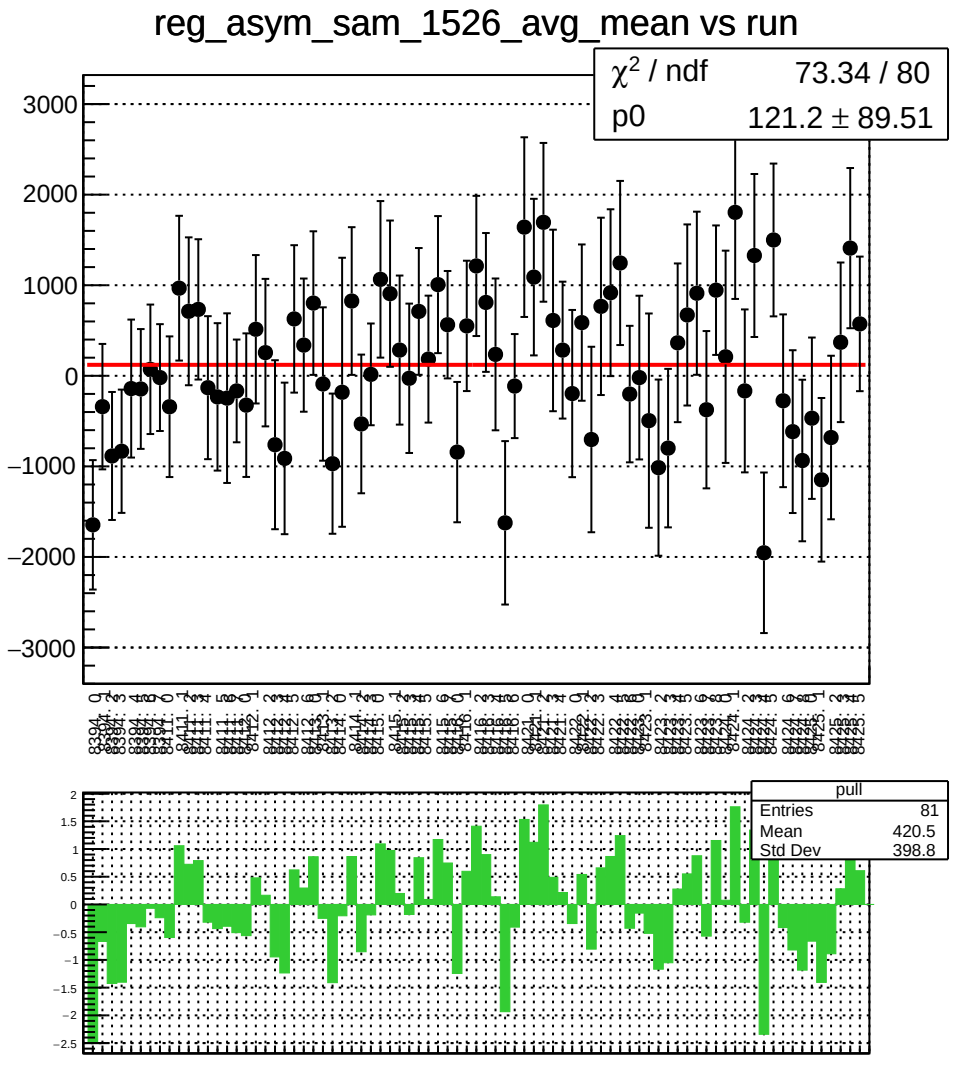

pull1D
Entries 81
Mean 0.003025
Std Dev 0.9548

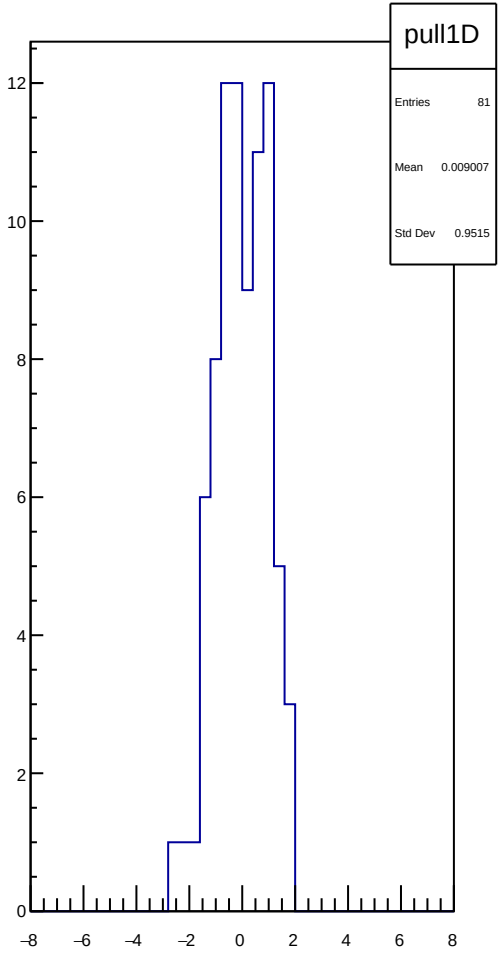

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 1.12e+04 / 80
p0 2184 ± 1.736
2600
2500
2400
2300
2200
2100
2000
1900
1800
1700

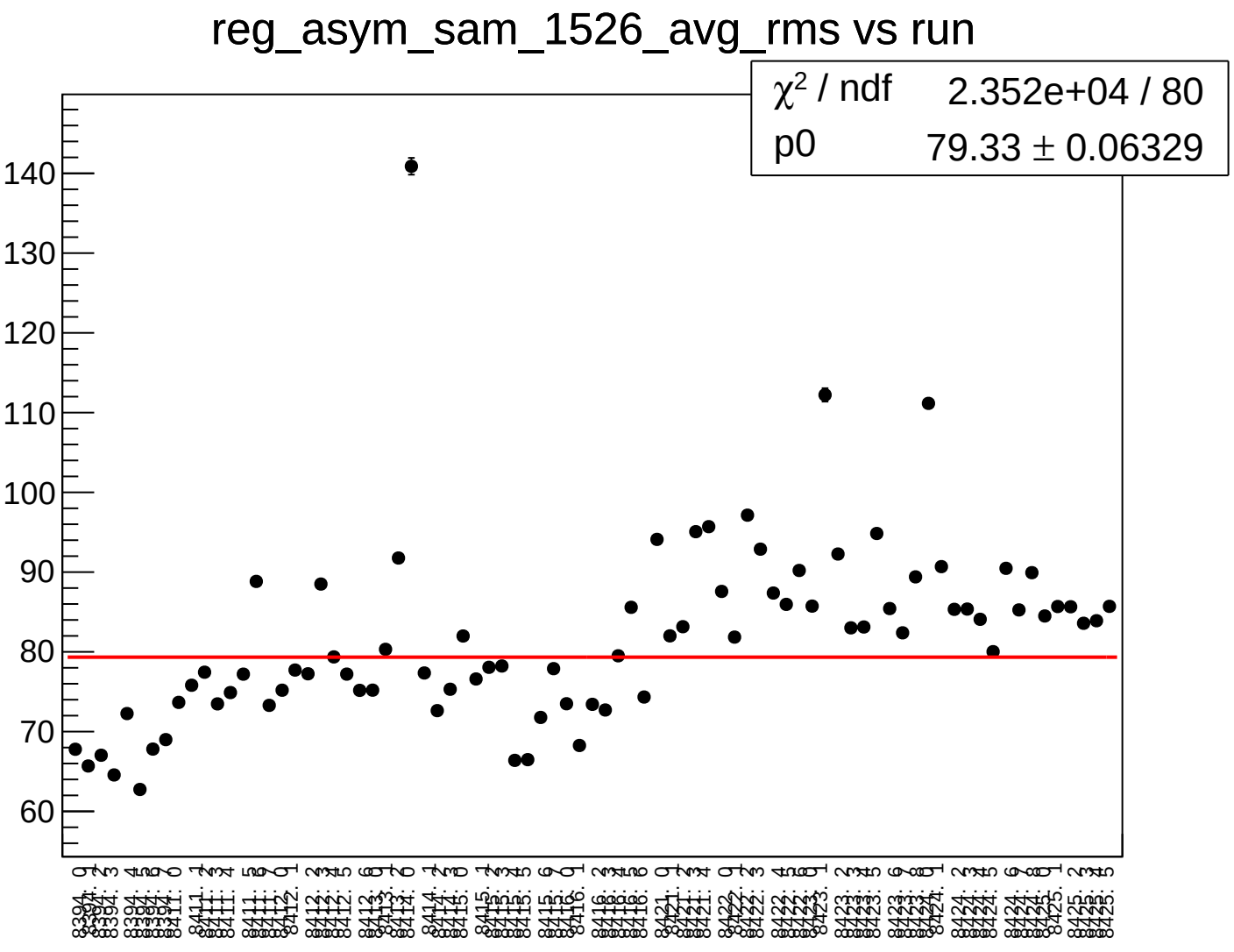

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 73.65 / 80
p0 1.184e+04 ± 2461
pull
Entries 81
Mean −1647
Std Dev 1685

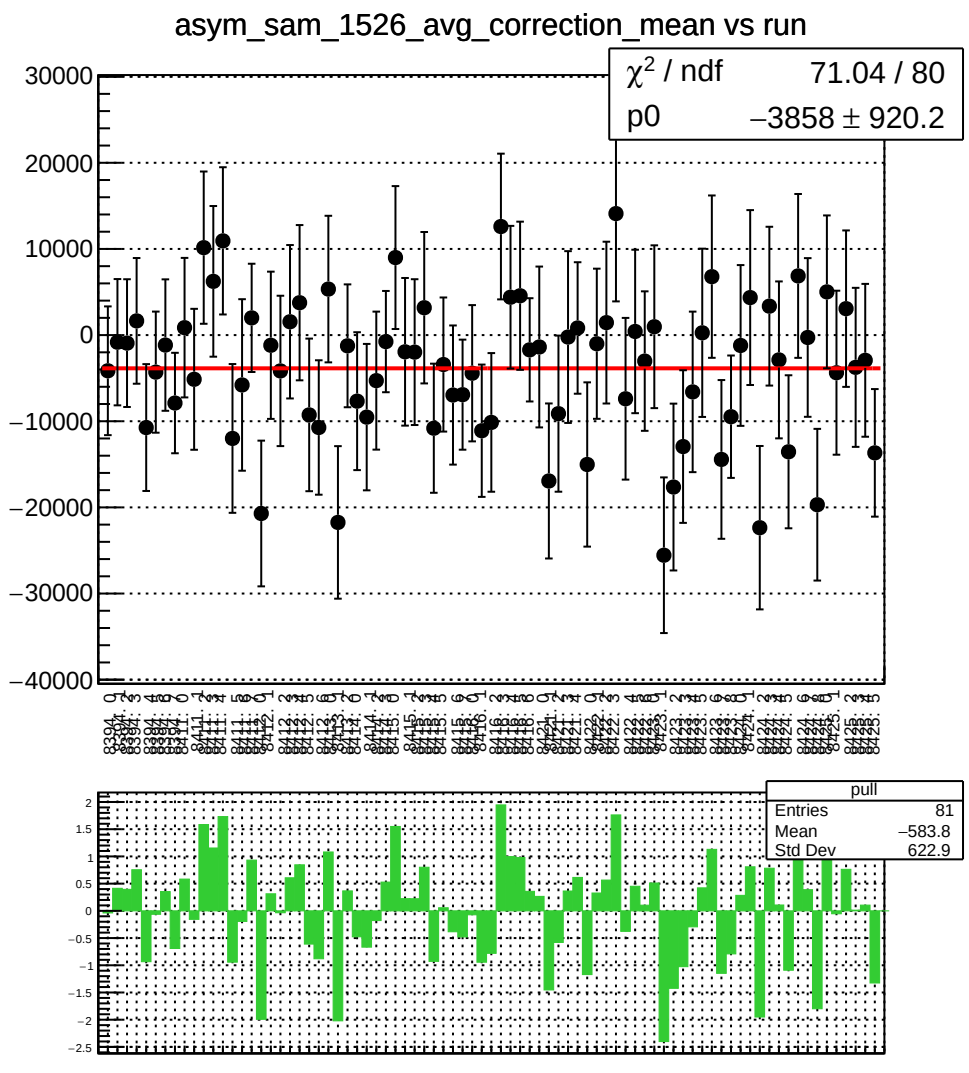

pull1D
Entries 81
Mean −0.001714
Std Dev 0.9535

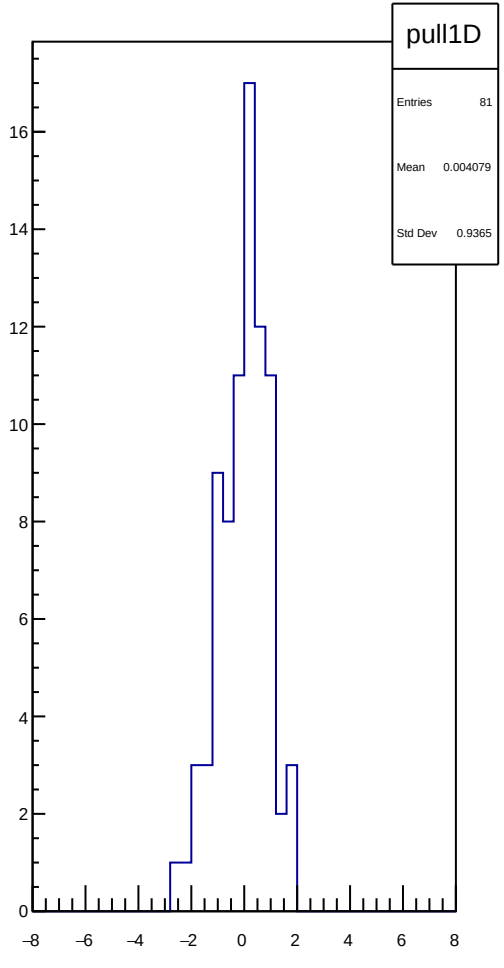

asym_sam_3748_avg_rms vs run
χ² / ndf 1.12e+04 / 80
p0 2189 ± 1.74
2600
2500
2400
2300
2200
2100
2000
1900
1800
1700

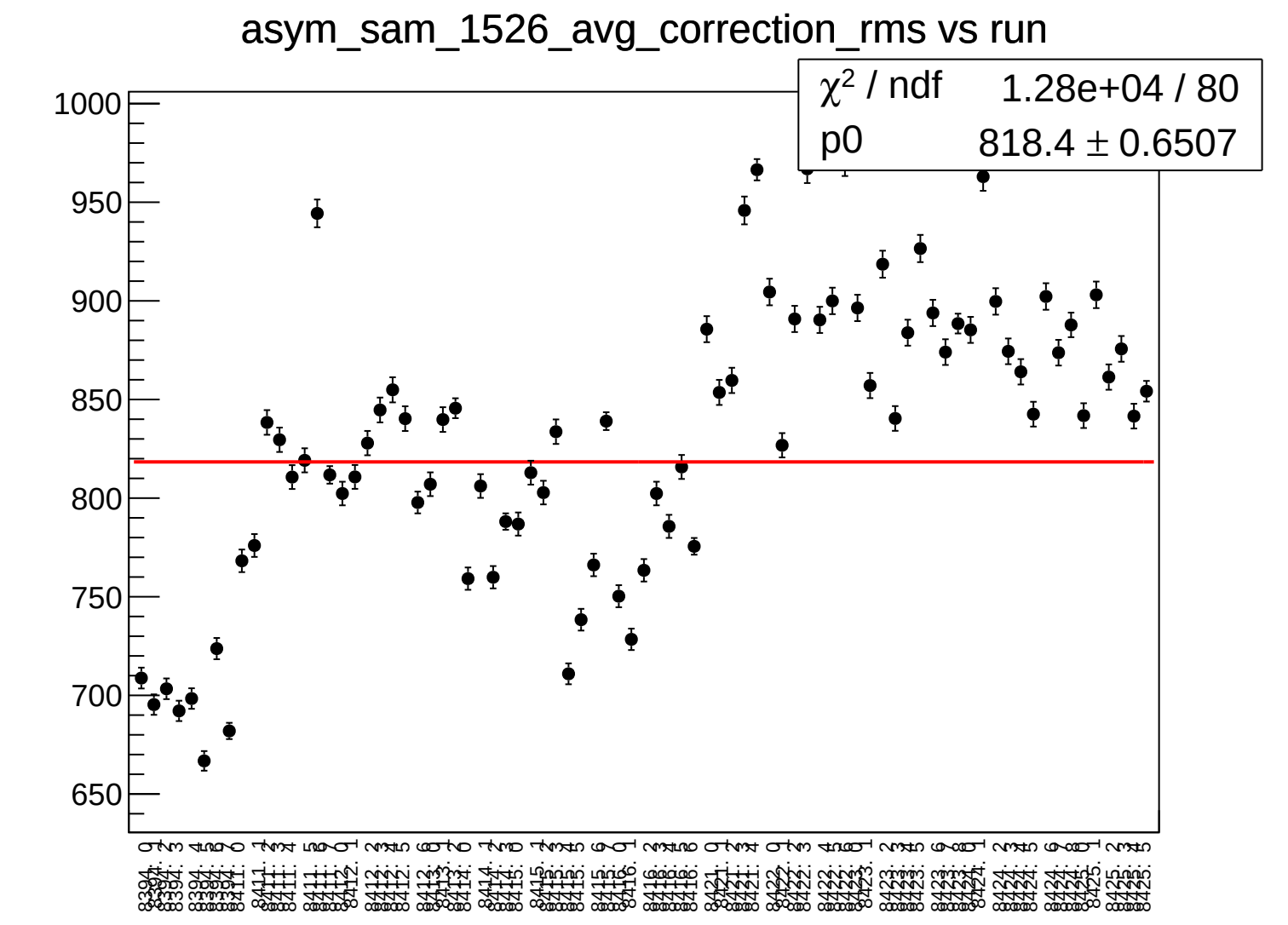

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 73.34 / 80
p0 121.2 ± 89.51
pull
Entries 81
Mean 420.5
Std Dev 398.8

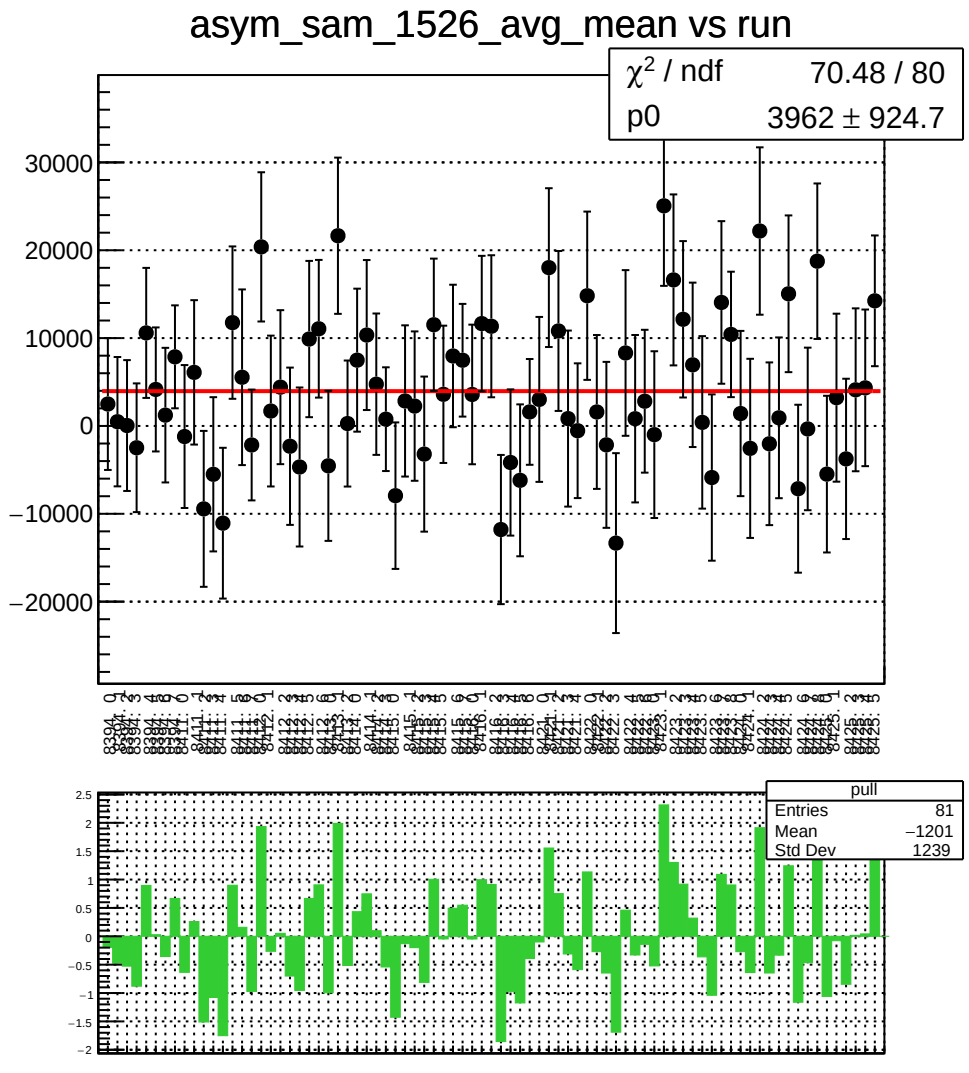

pull1D
Entries 81
Mean 0.009007
Std Dev 0.9515

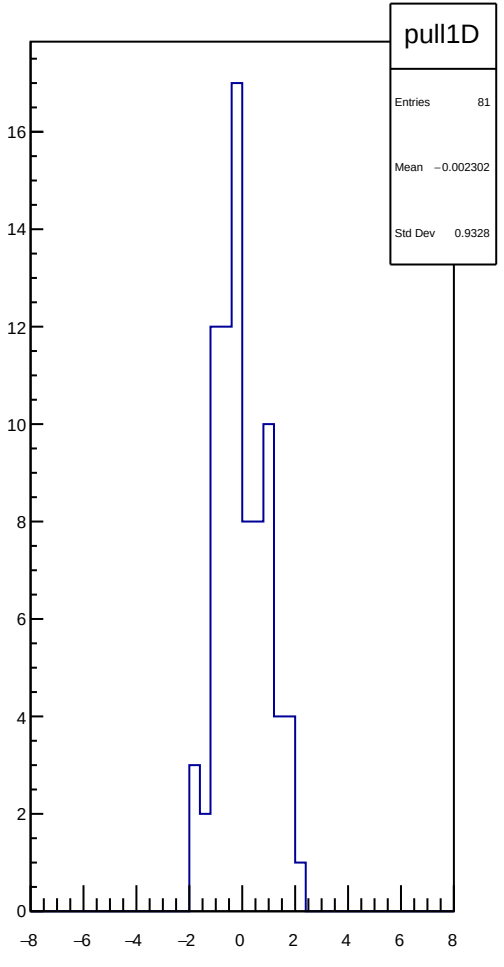

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 2.352e+04 / 80
p0 79.33 ± 0.06329
140
130
120
110
100
90
80
70
60

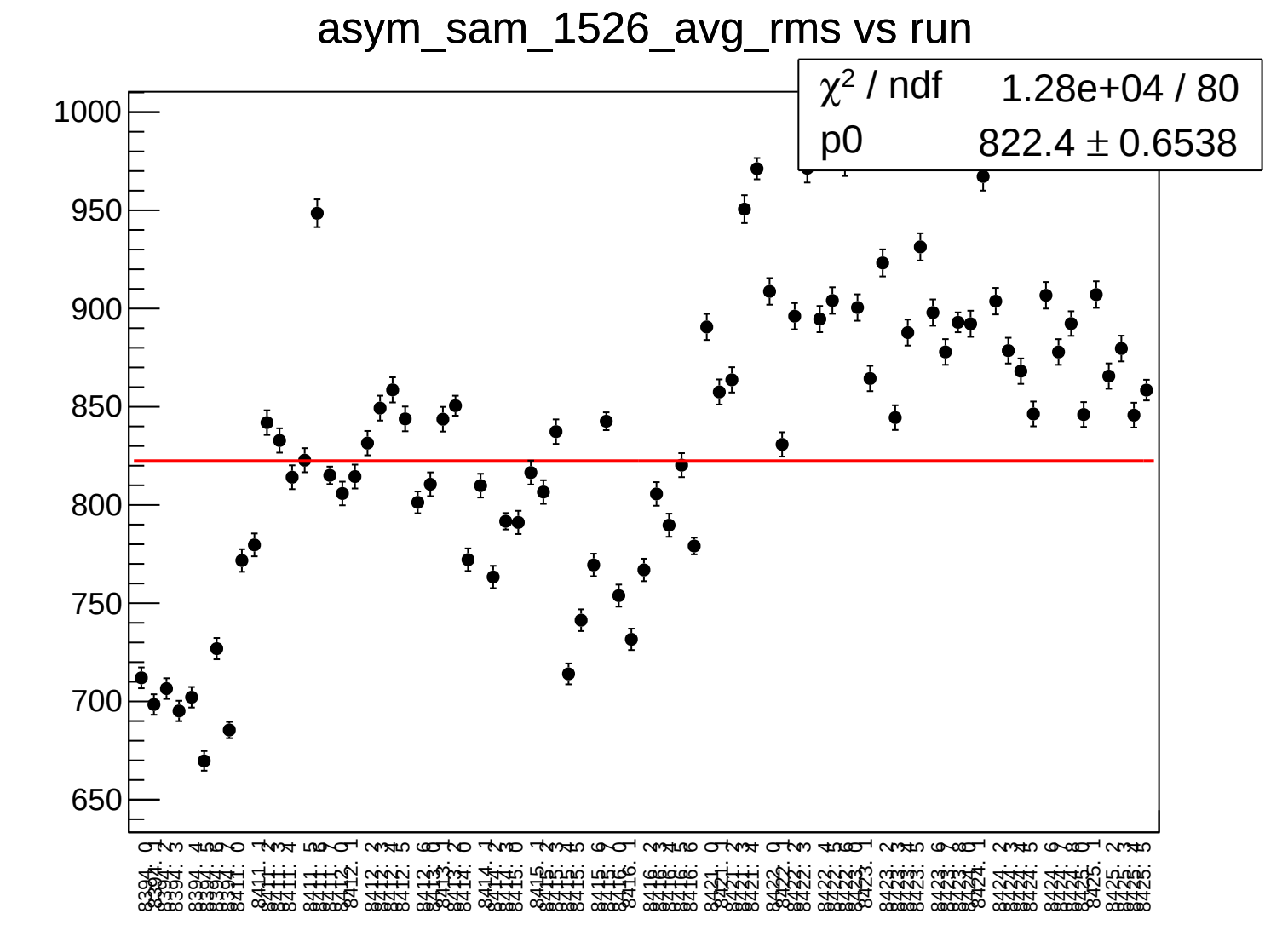

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 71.04 / 80
p0 −3858 ± 920.2
pull
Entries 81
Mean −583.8
Std Dev 622.9

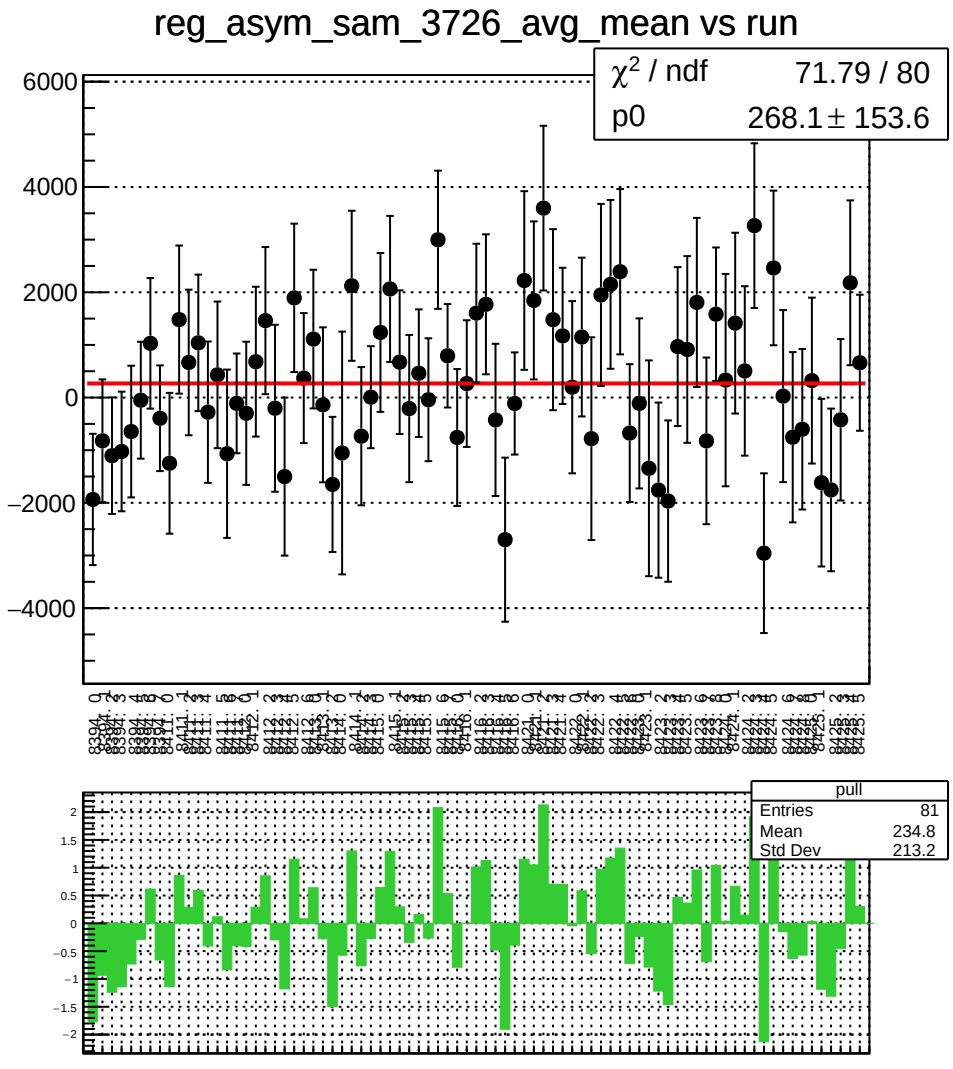

pull1D
Entries 81
Mean 0.004079
Std Dev 0.9365

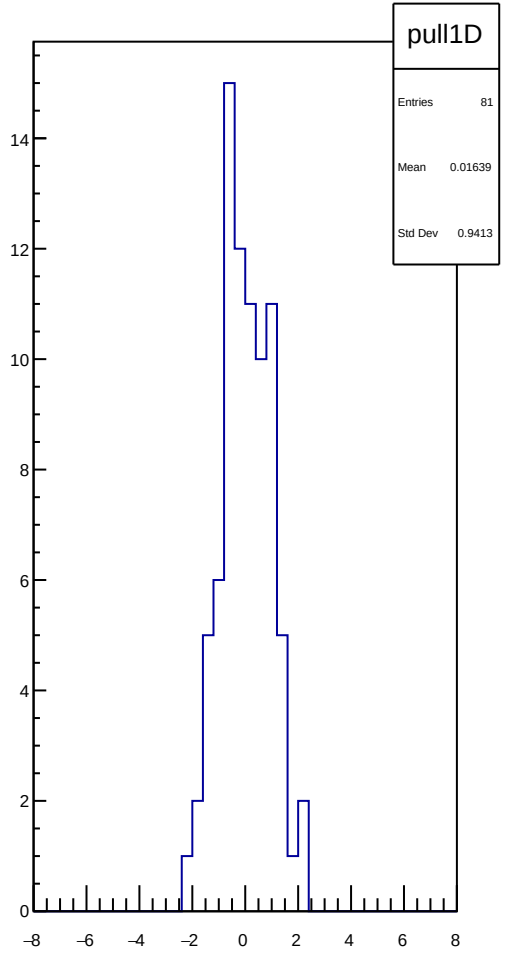

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 1.28e+04 / 80
p0 818.4 ± 0.6507
1000
950
900
850
800
750
700
650

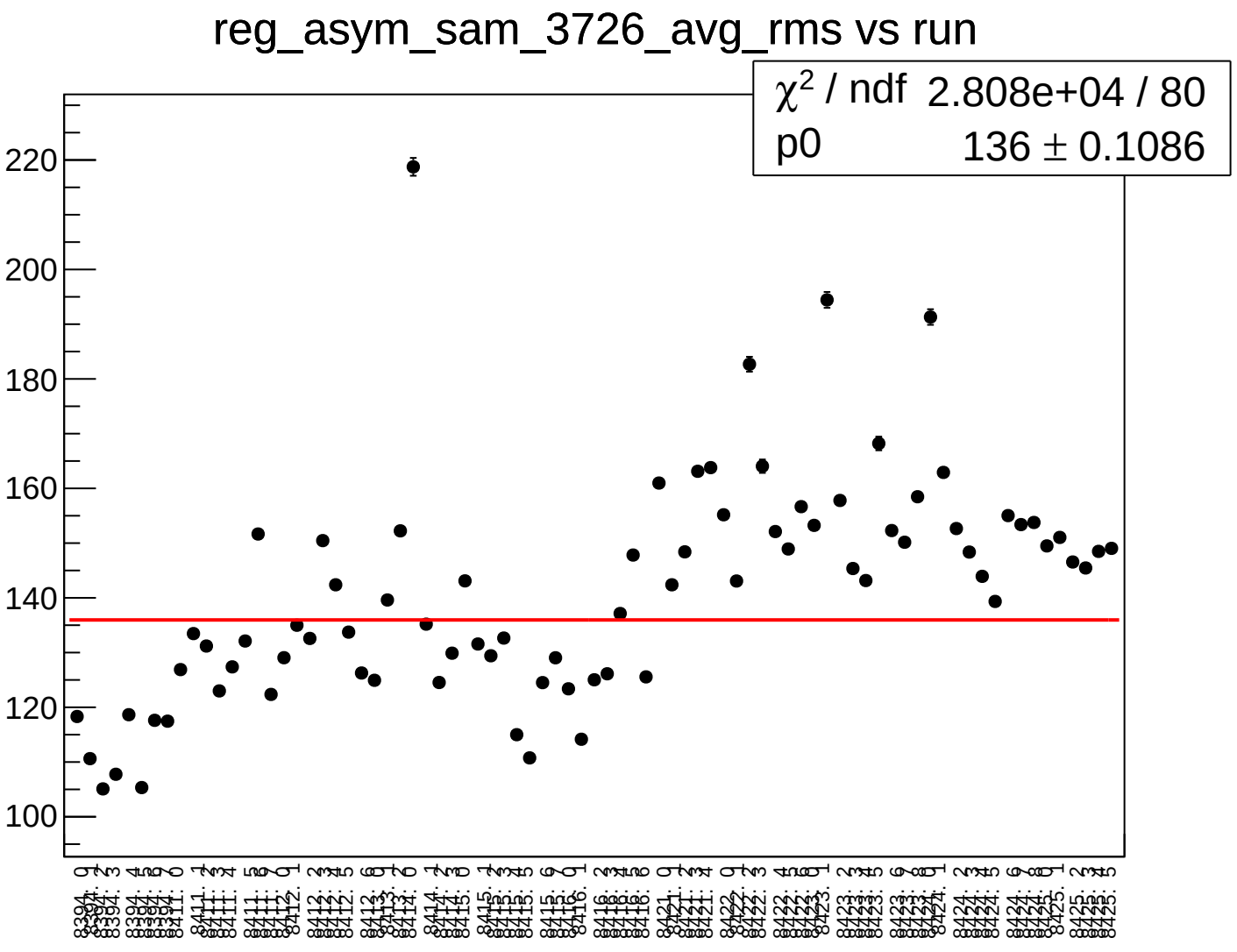

asym_sam_1526_avg_mean vs run
χ² / ndf 70.48 / 80
p0 3962 ± 924.7
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −1201
Std Dev 1239
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

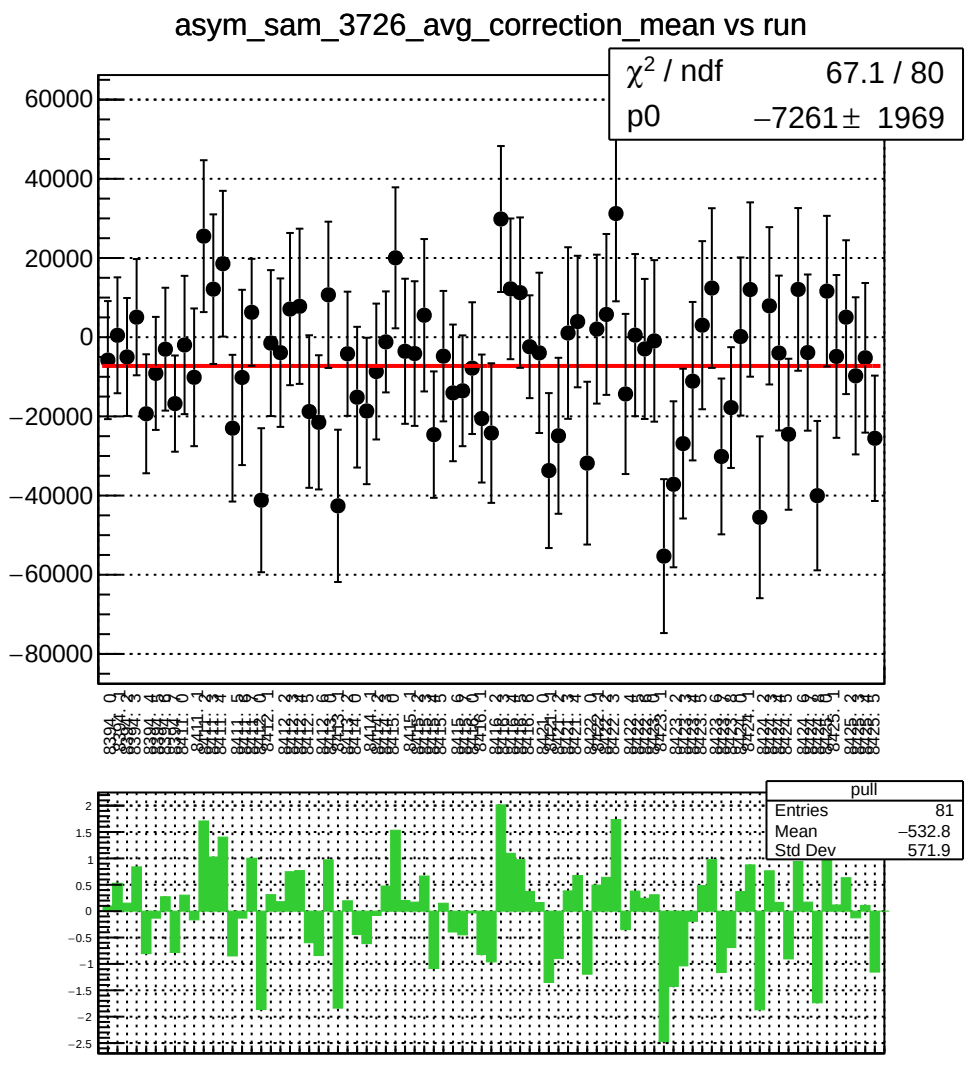

pull1D
Entries 81
Mean −0.002302
Std Dev 0.9328
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

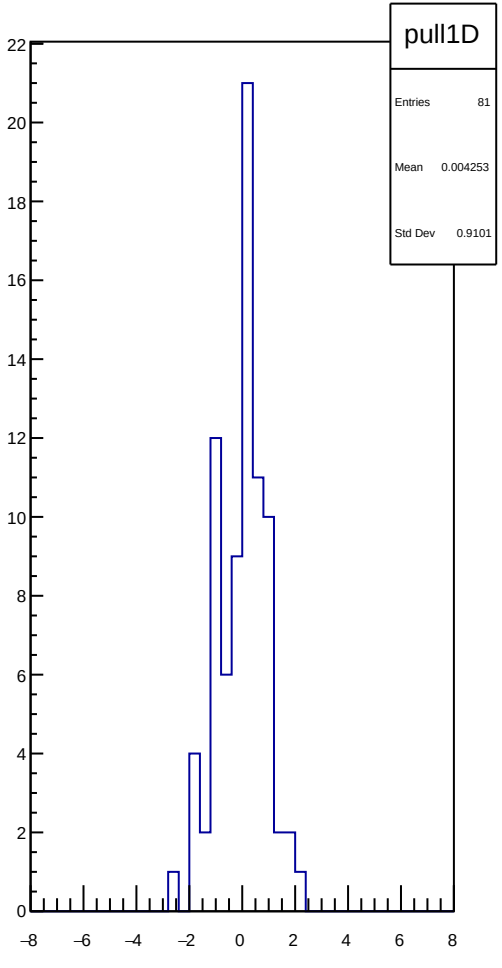

asym_sam_1526_avg_rms vs run
χ² / ndf 1.28e+04 / 80
p0 822.4 ± 0.6538
1000
950
900
850
800
750
700
650

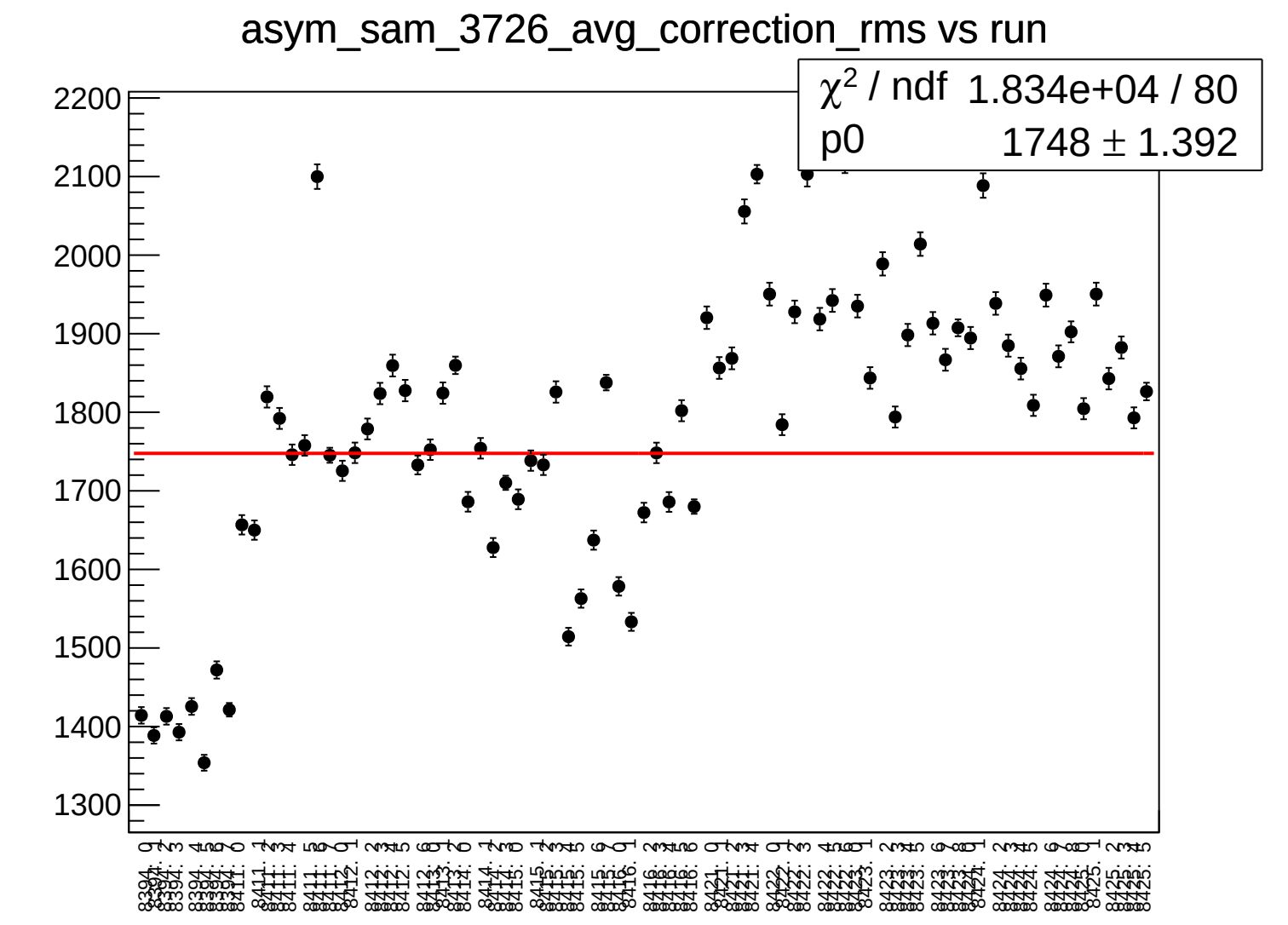

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 71.79 / 80
p0 268.1 ± 153.6
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 234.8
Std Dev 213.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

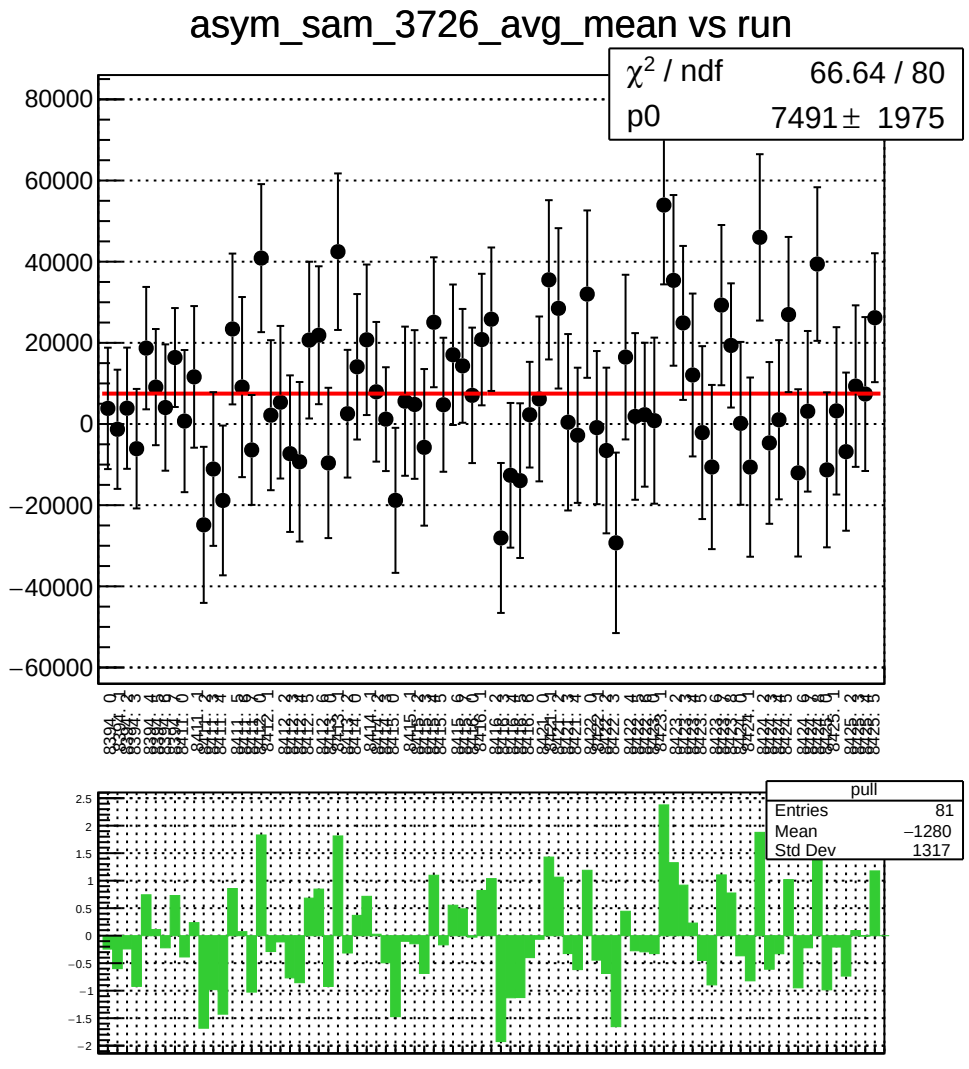

pull1D
Entries 81
Mean 0.01639
Std Dev 0.9413
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

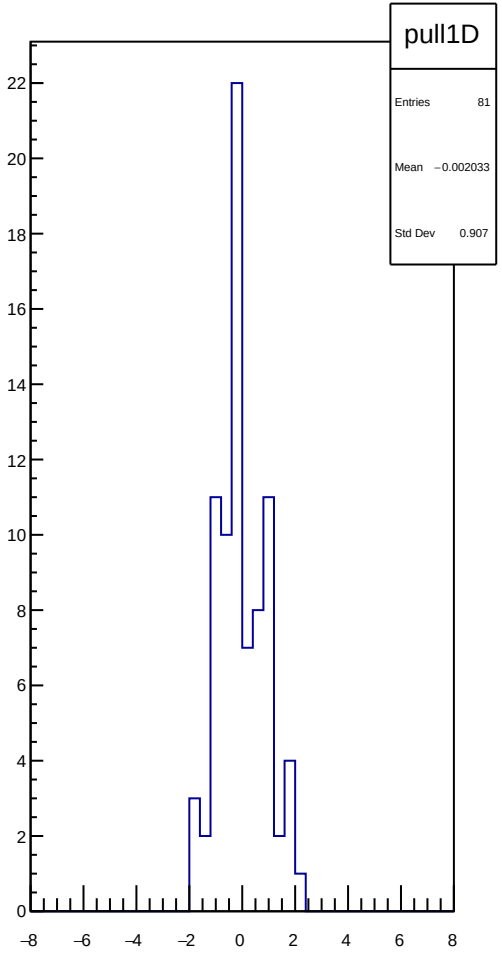

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 2.808e+04 / 80
p0 136 ± 0.1086
220
200
180
160
140
120
100

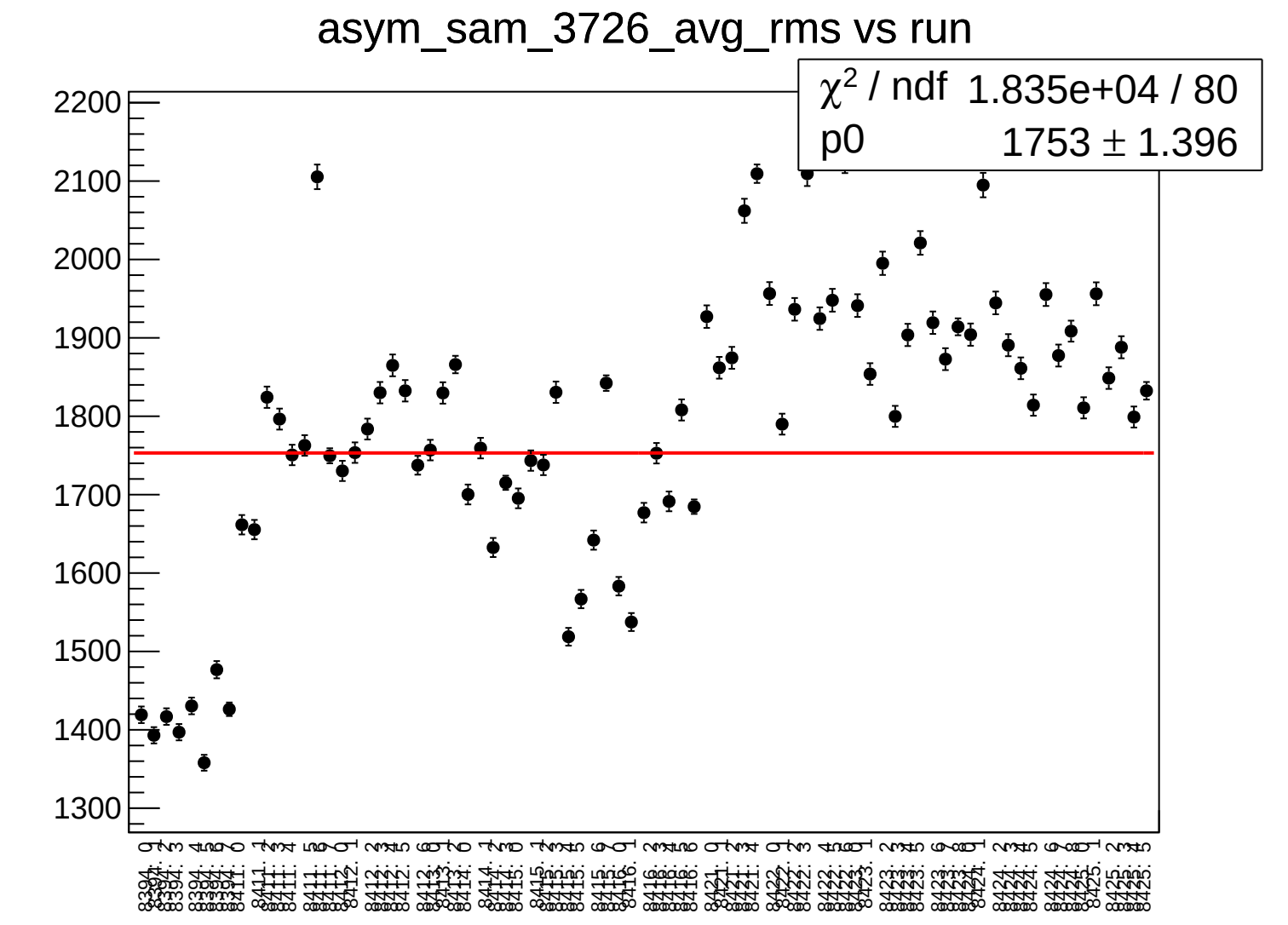

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 67.1 / 80
p0 −7261 ± 1969
pull
Entries 81
Mean −532.8
Std Dev 571.9

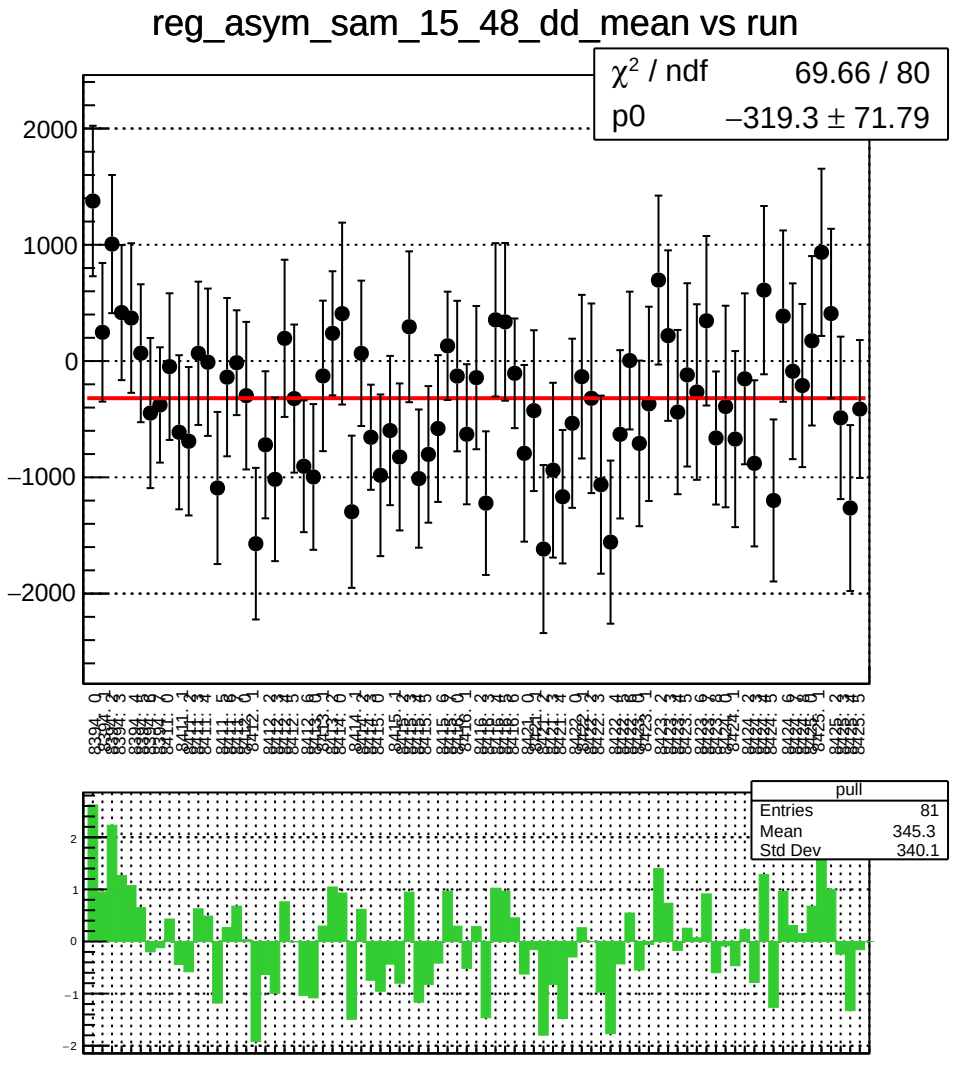

pull1D
Entries 81
Mean 0.004253
Std Dev 0.9101

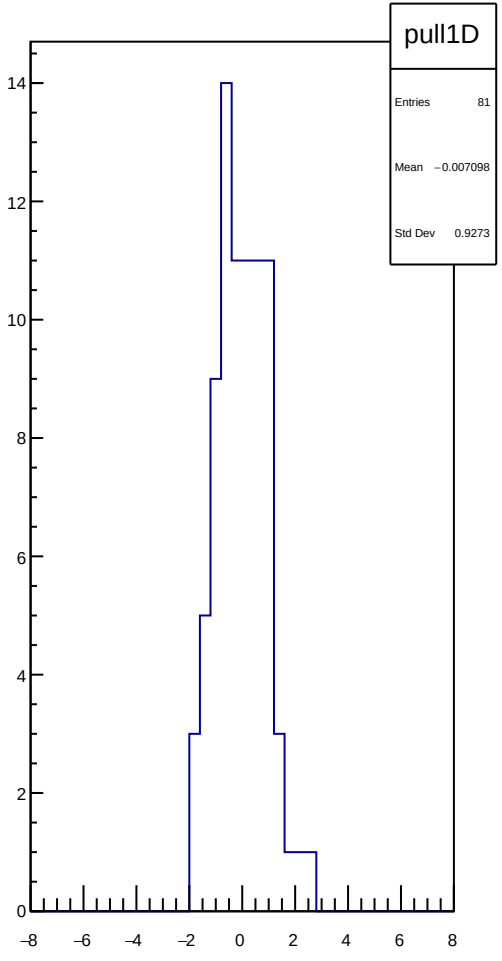

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 1.834e+04 / 80
p0 1748 ± 1.392
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

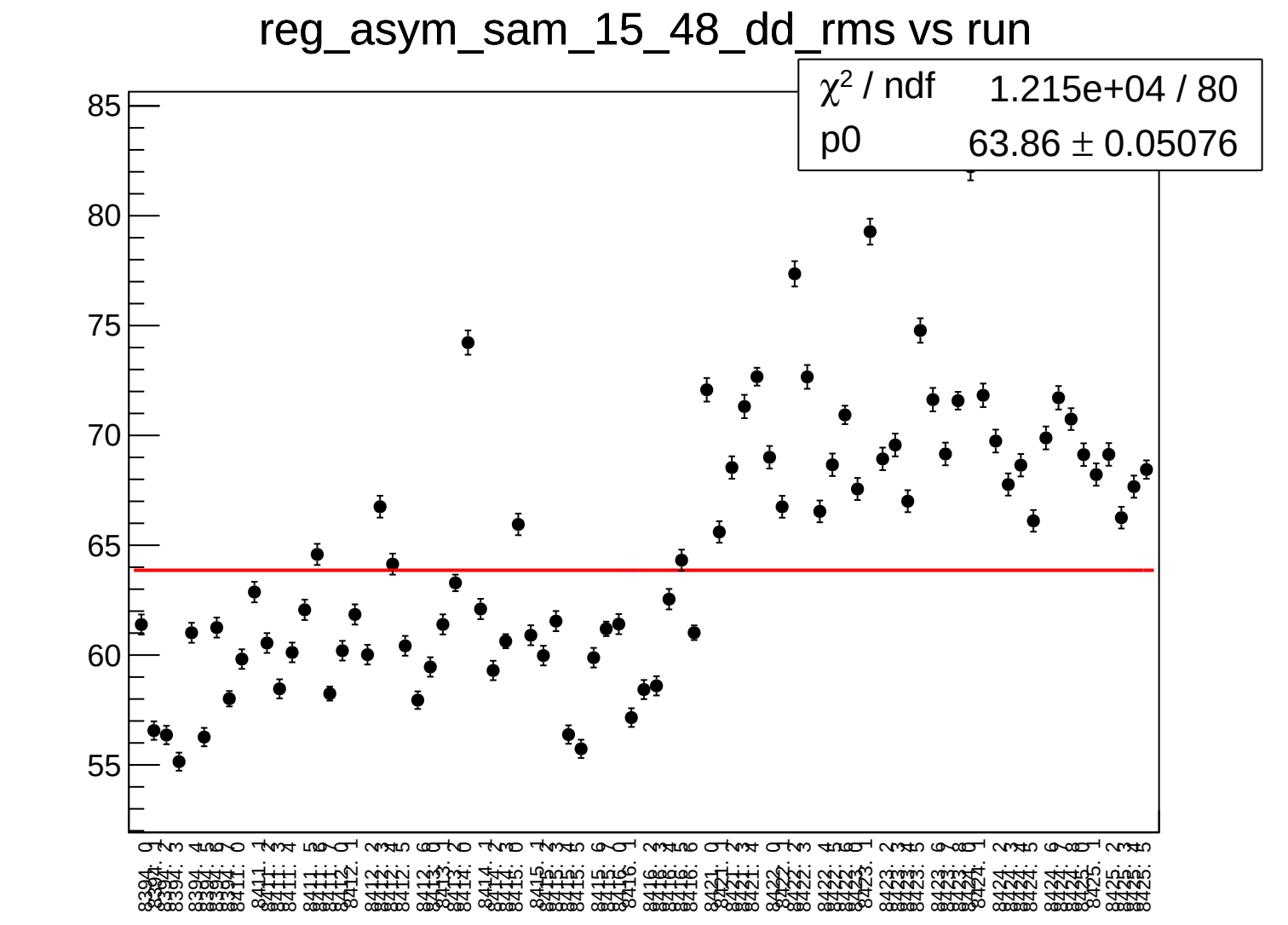

asym_sam_3726_avg_mean vs run
χ² / ndf 66.64 / 80
p0 7491 ± 1975
pull
Entries 81
Mean −1280
Std Dev 1317

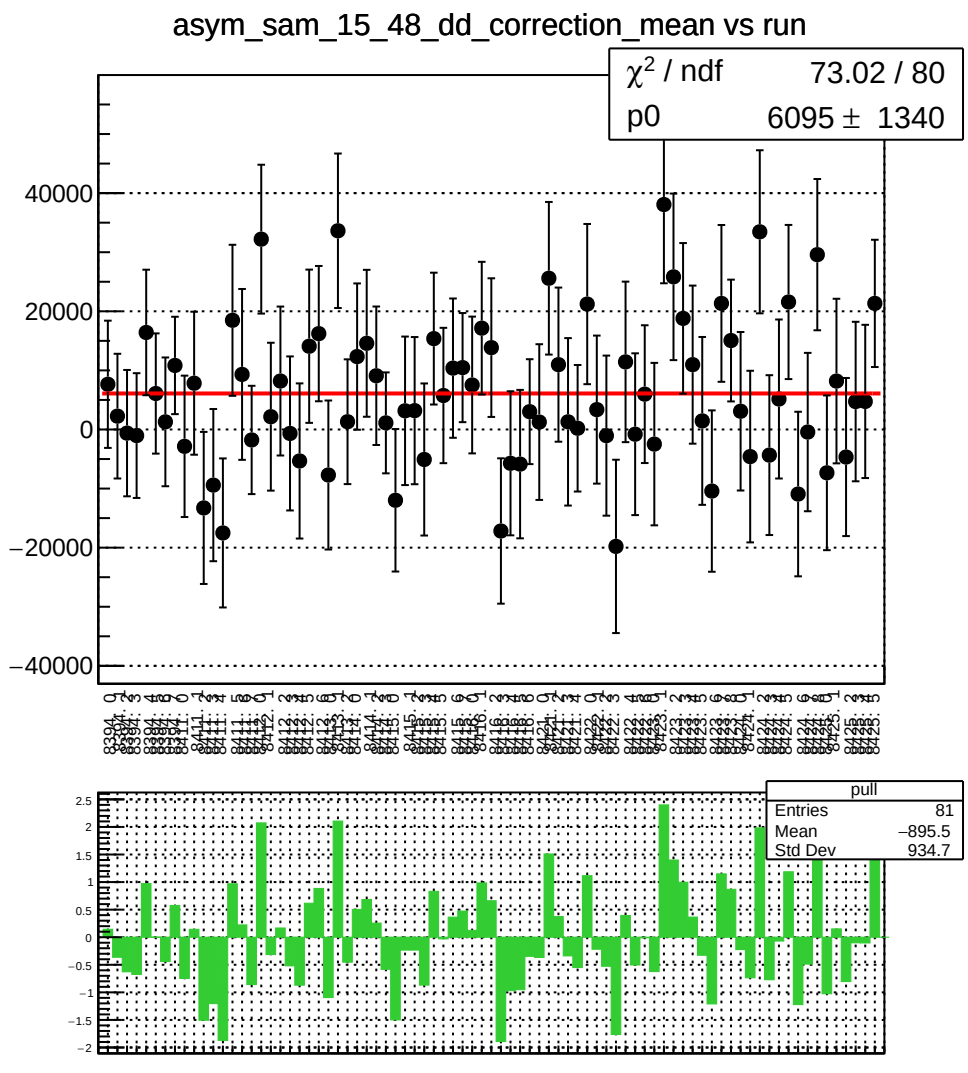

pull1D
Entries 81
Mean −0.002033
Std Dev 0.907

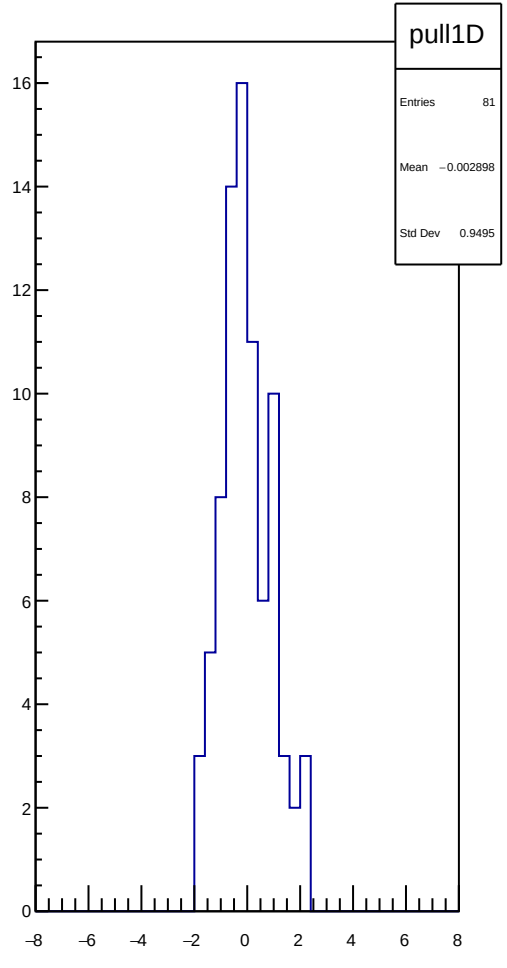

asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.835e+04 / 80
p0 1753 ± 1.396
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

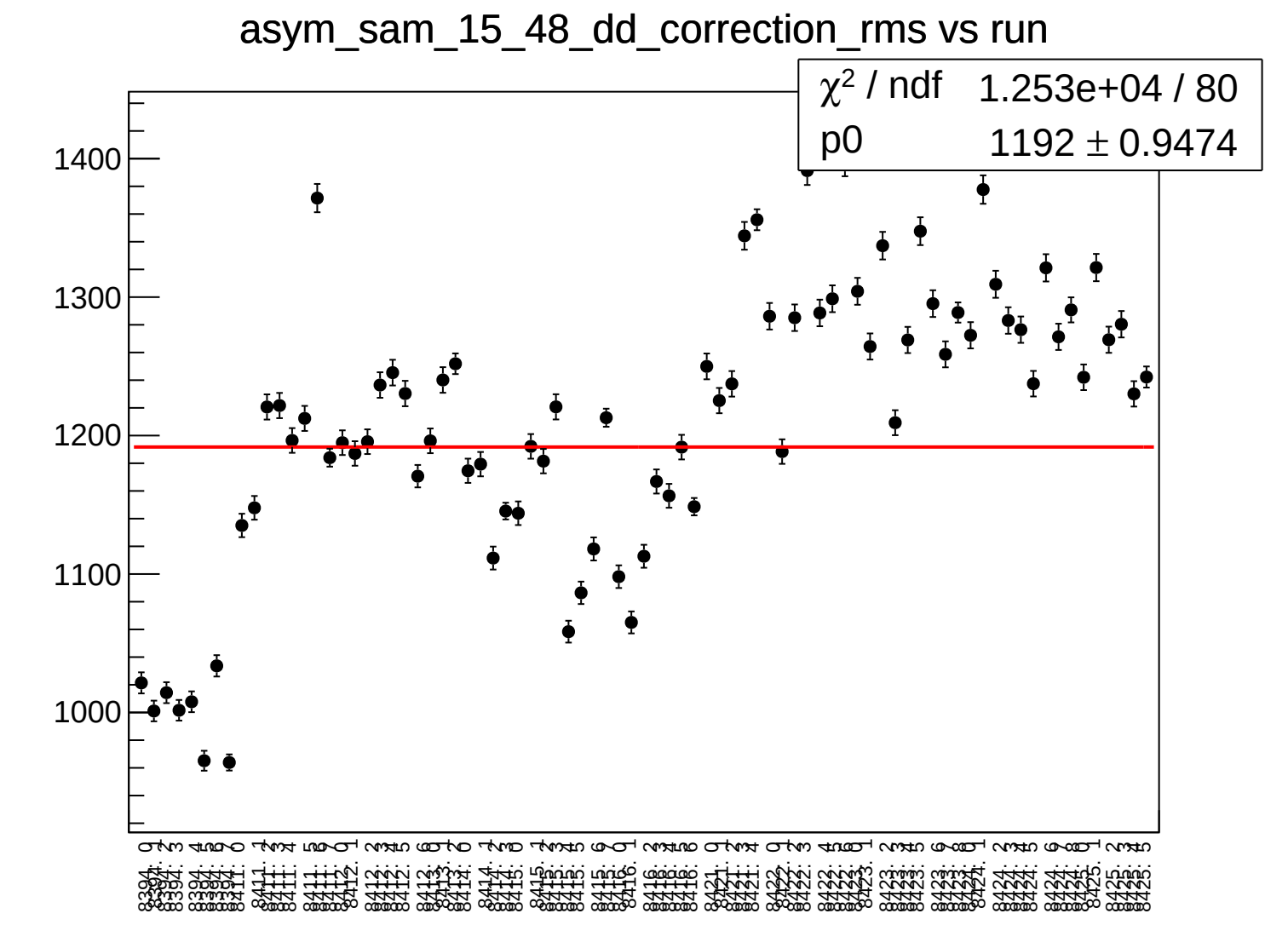

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 69.66 / 80
p0 −319.3 ± 71.79
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 345.3
Std Dev 340.1
2
1
0
−1
−2

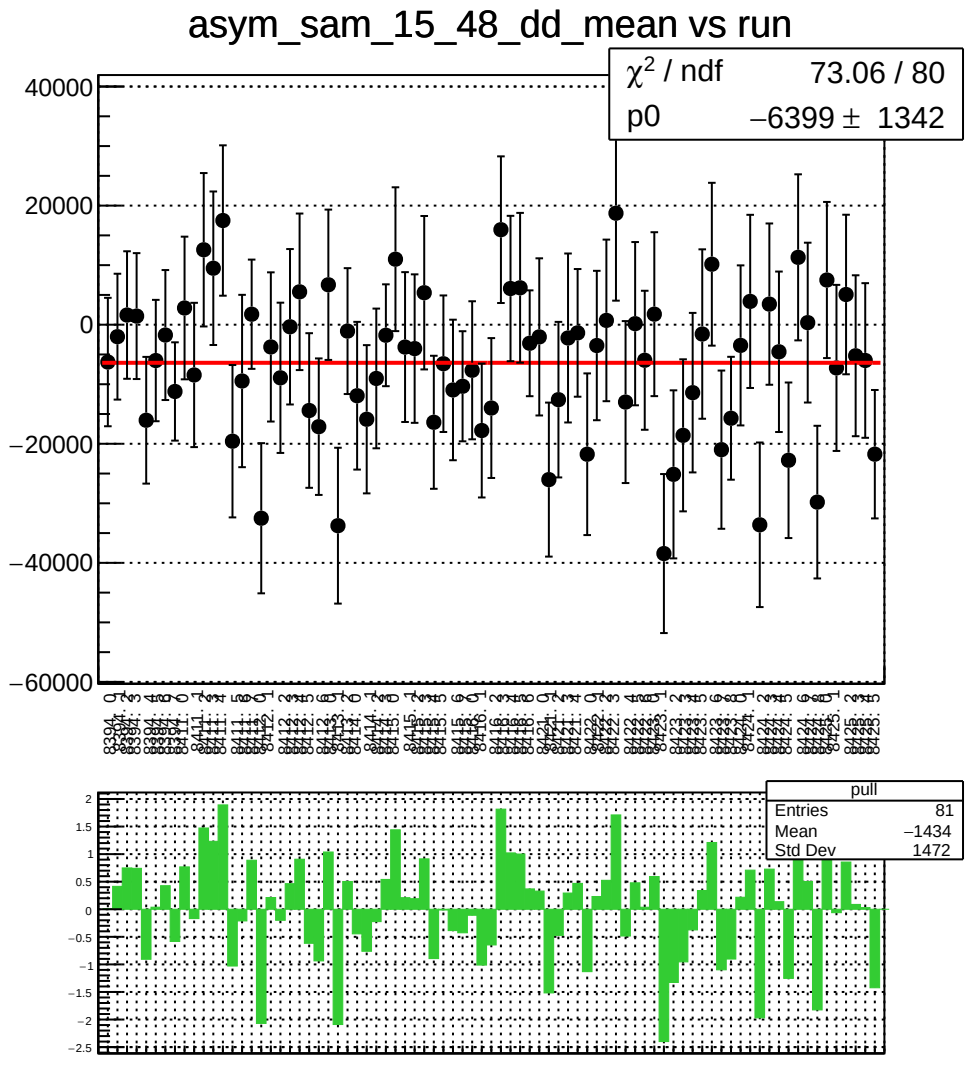

pull1D
Entries 81
Mean −0.007098
Std Dev 0.9273
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

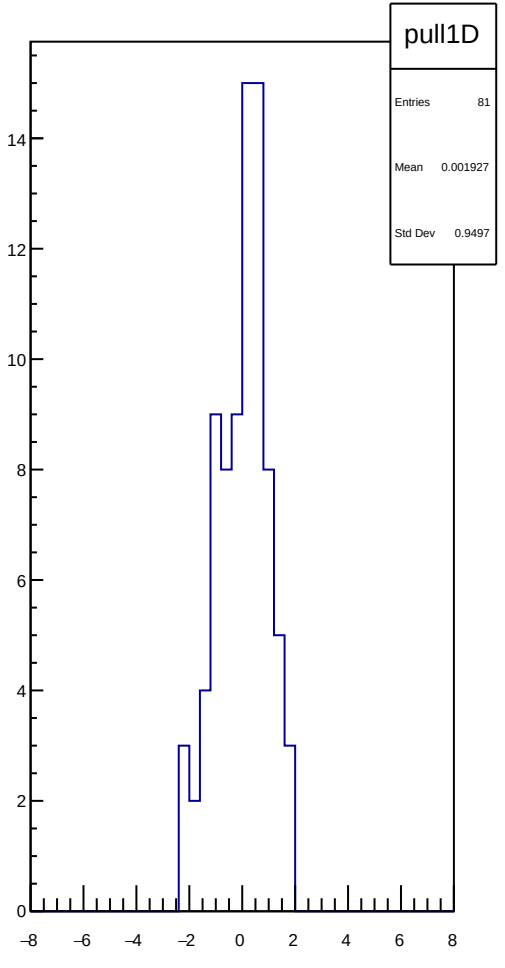

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.215e+04 / 80
p0 63.86 ± 0.05076
85
80
75
70
65
60
55

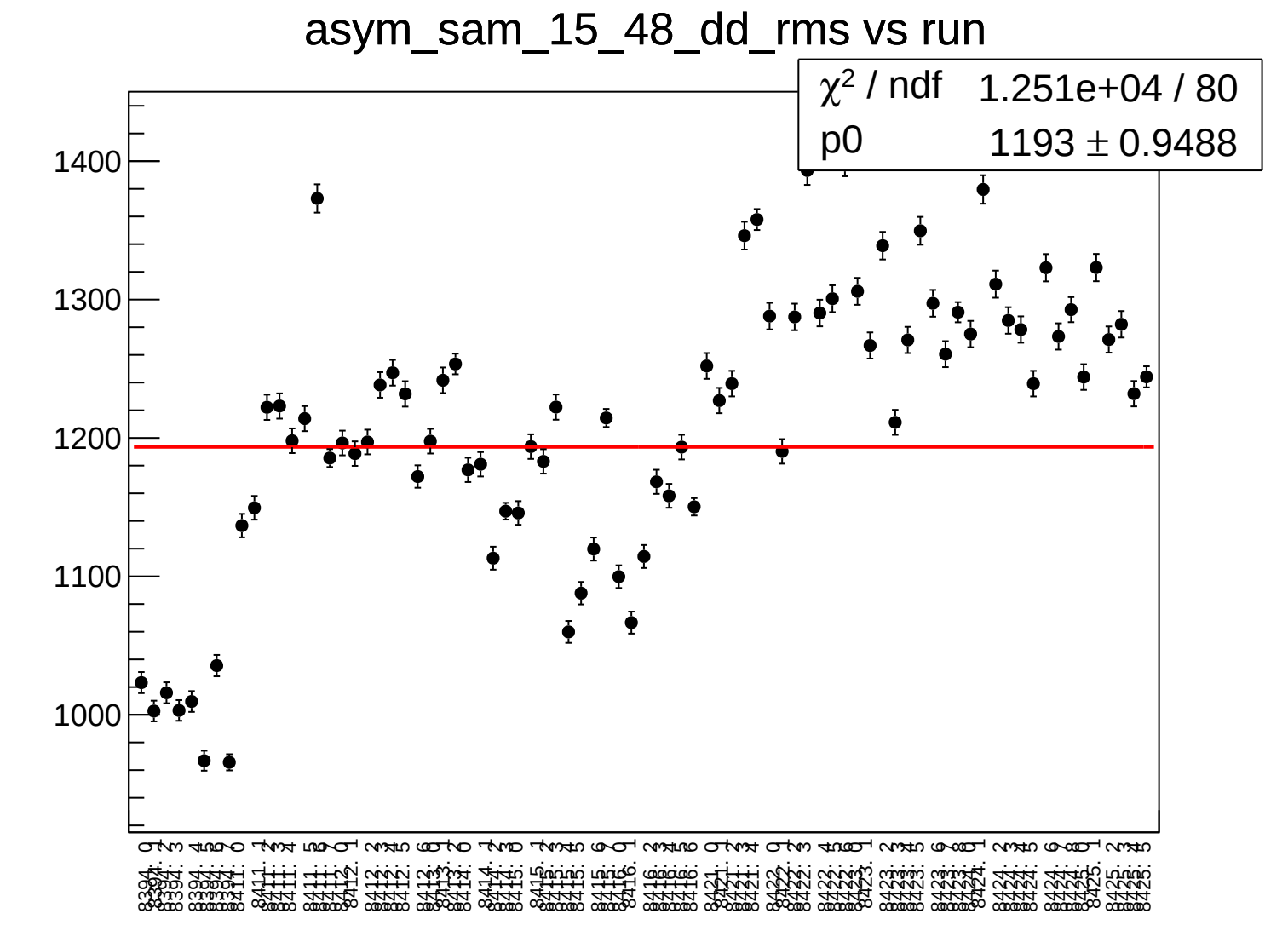

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 73.02 / 80
p0 6095 ± 1340
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −895.5
Std Dev 934.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

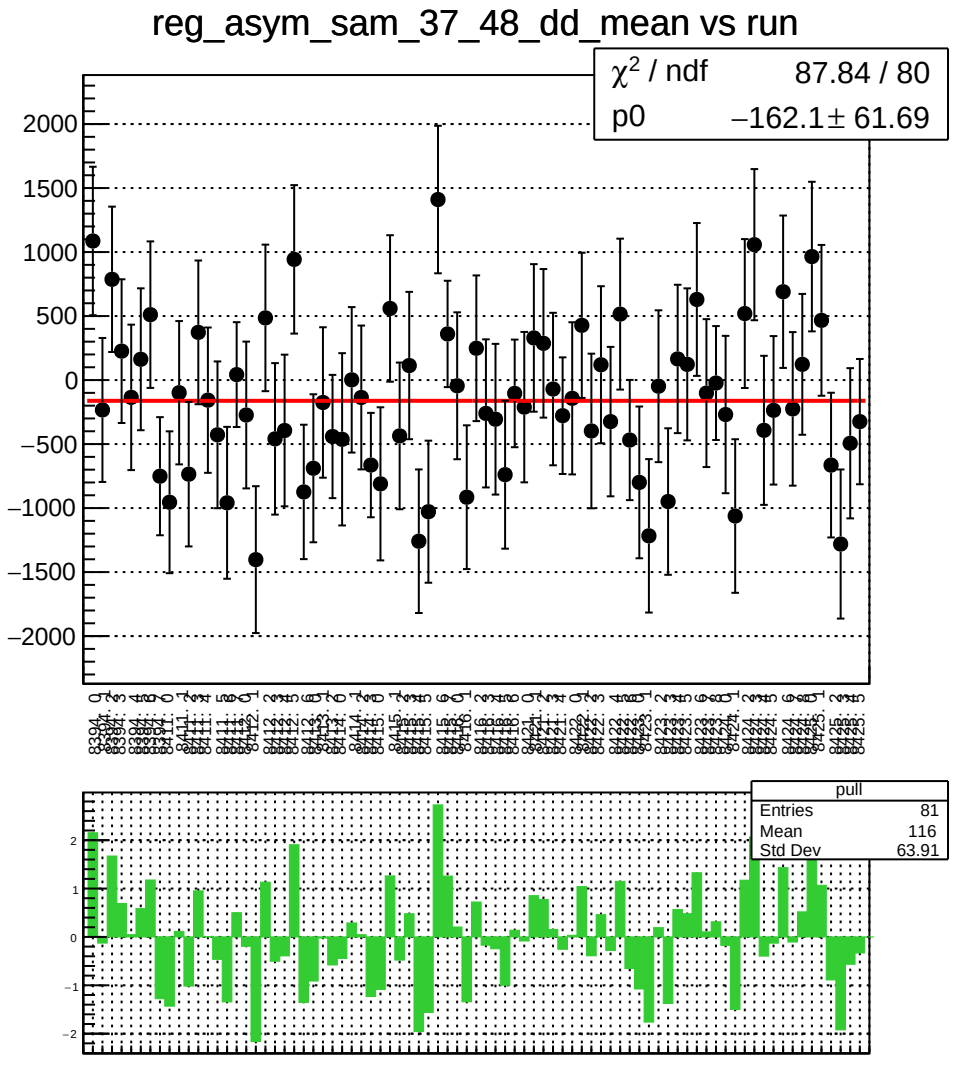

pull1D
Entries 81
Mean −0.002898
Std Dev 0.9495
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

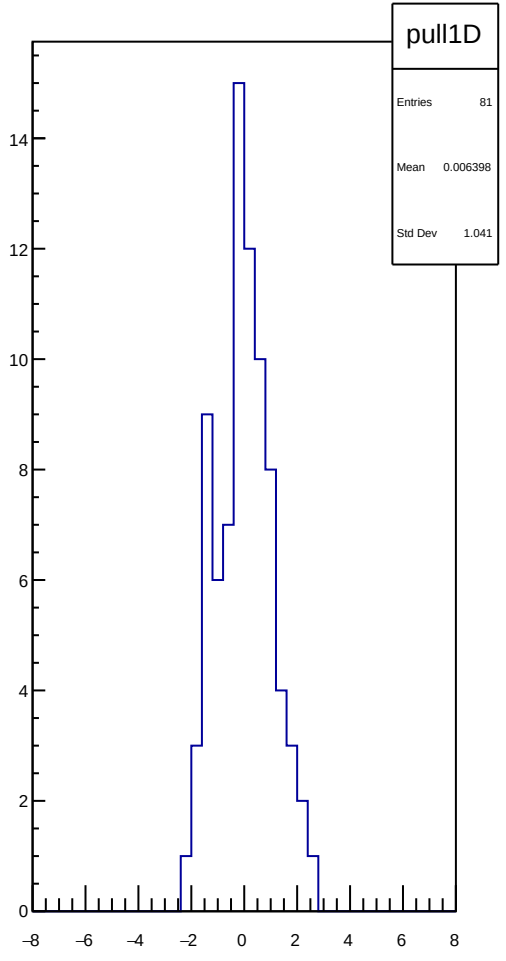

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 1.253e+04 / 80
p0 1192 ± 0.9474
1400
1300
1200
1100
1000


asym_sam_15_48_dd_mean vs run
χ² / ndf 73.06 / 80
p0 −6399 ± 1342
pull
Entries 81
Mean −1434
Std Dev 1472

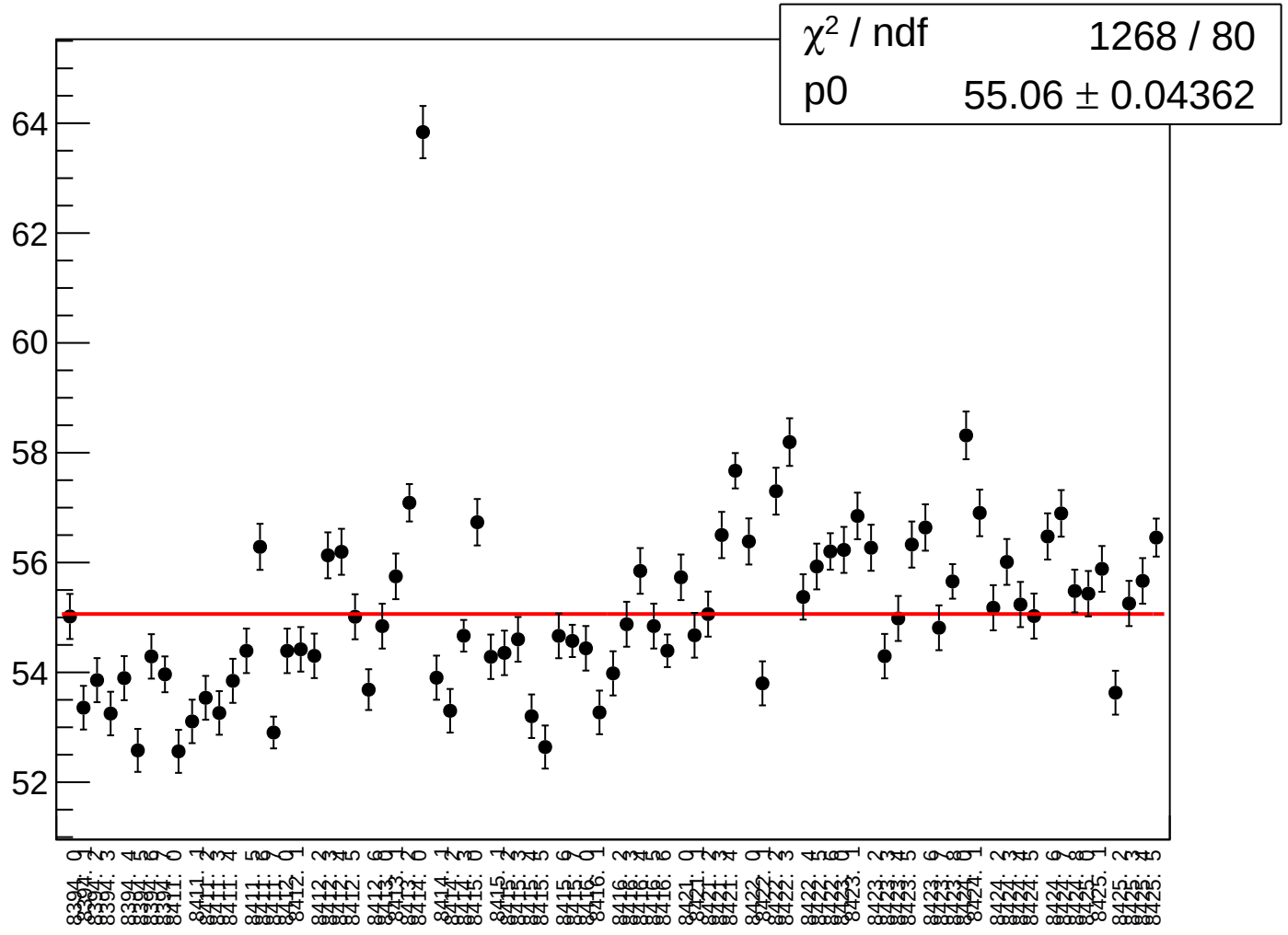

pull1D
Entries 81
Mean 0.001927
Std Dev 0.9497

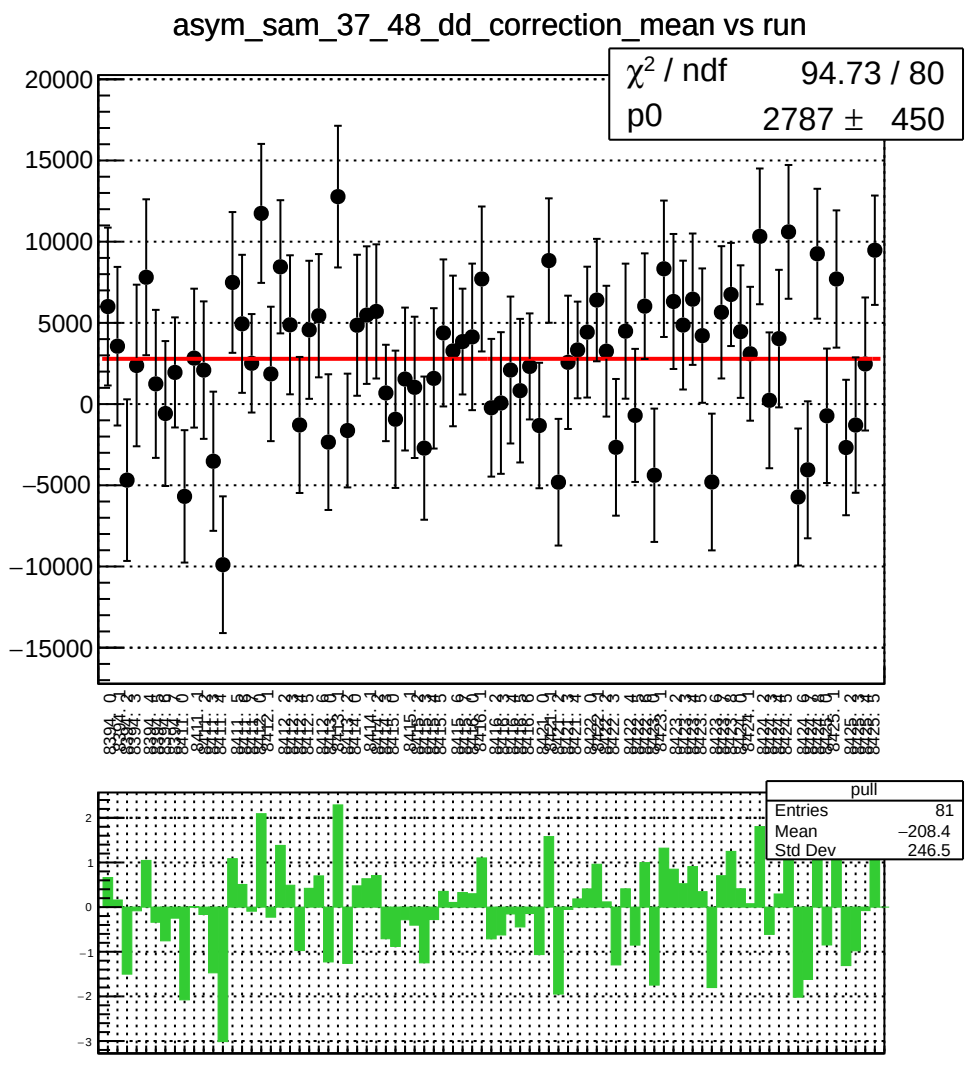

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.251e+04 / 80
p0 1193 ± 0.9488
1400
1300
1200
1100
1000

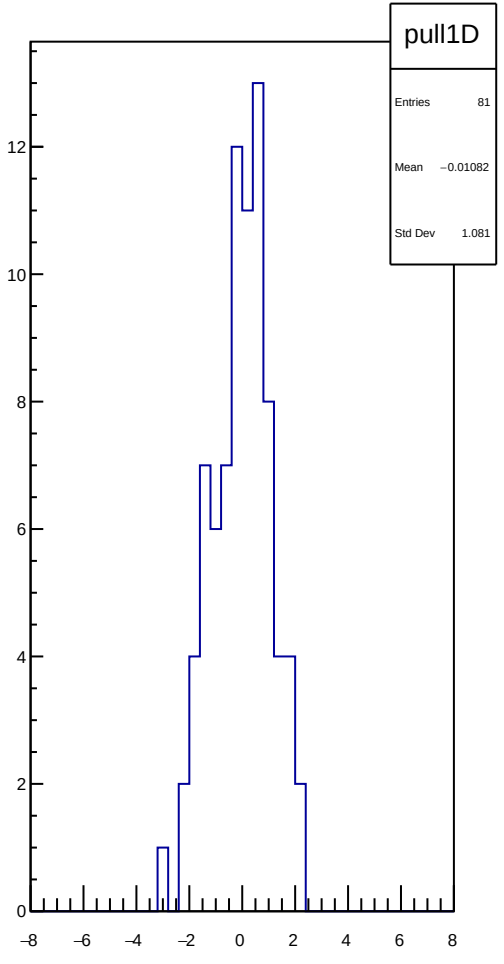

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 87.84 / 80
p0 −162.1± 61.69
pull
Entries 81
Mean 116
Std Dev 63.91

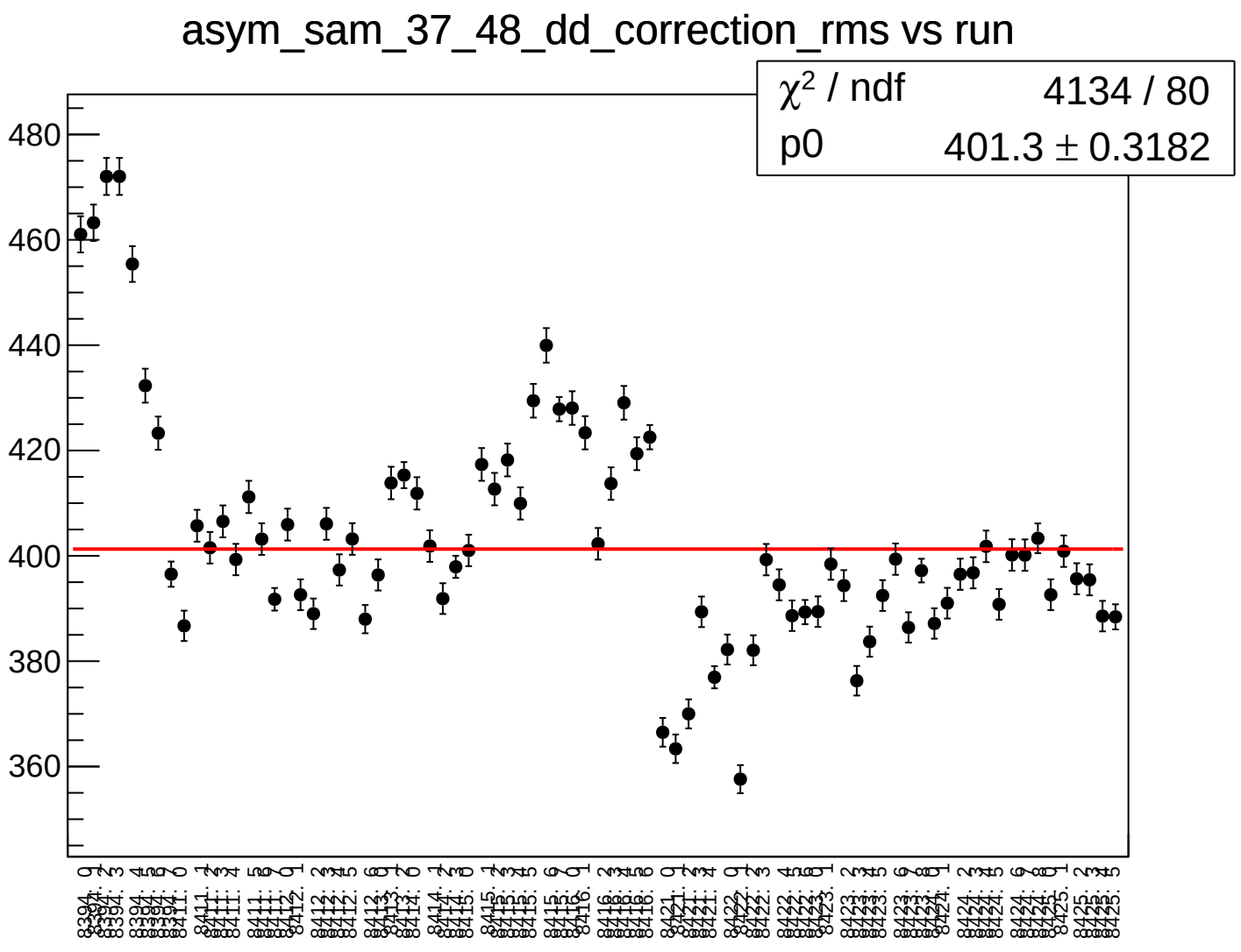

pull1D
Entries 81
Mean 0.006398
Std Dev 1.041

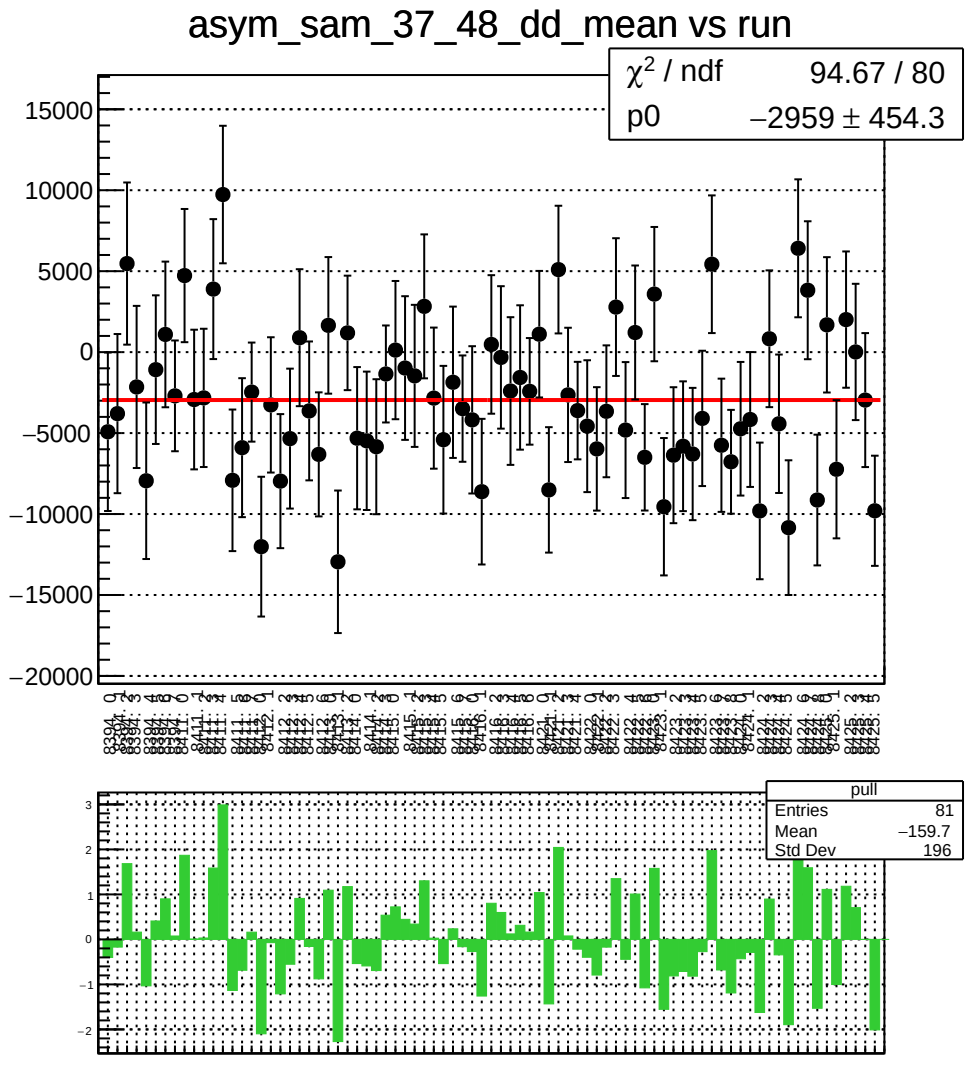
reg_asym_sam_37_48_dd_rms vs run

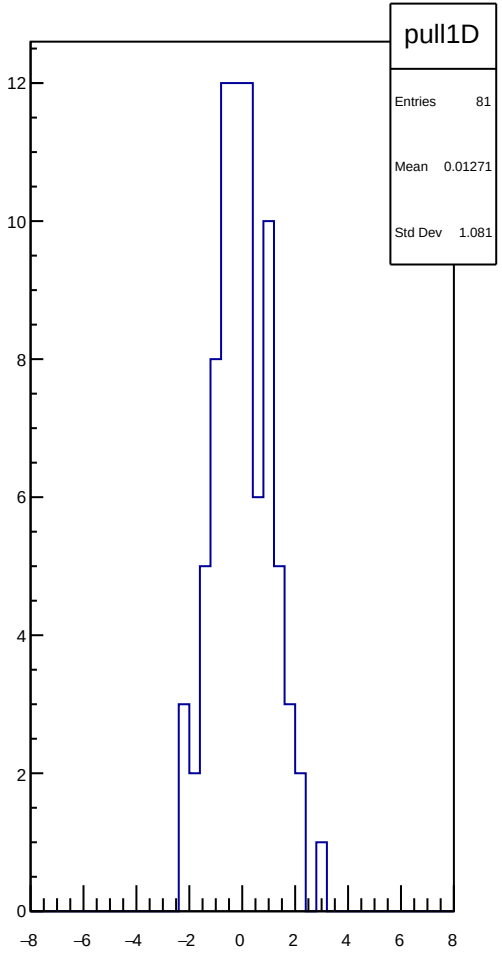


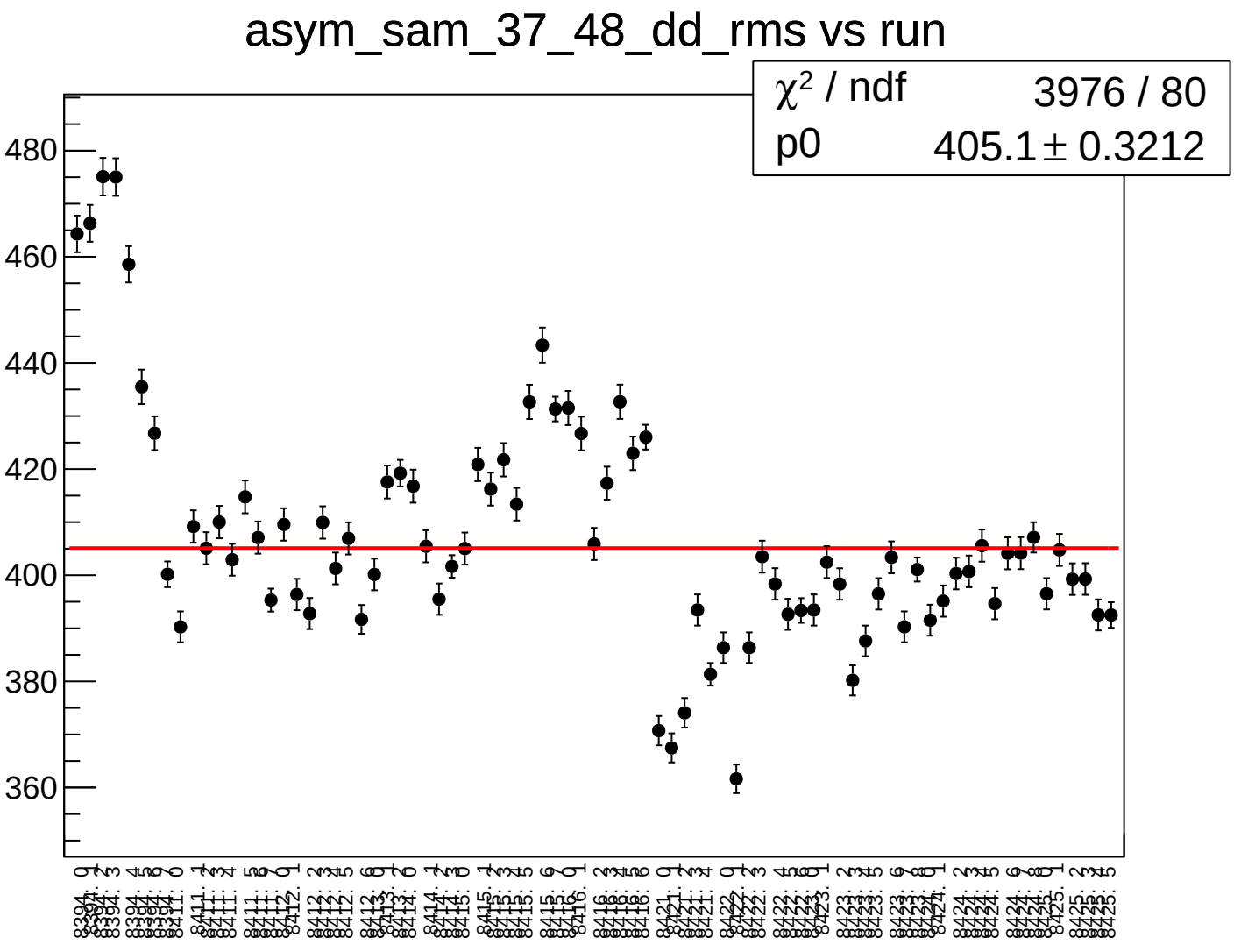

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 94.73 / 80
p0 2787 ± 450
pull
Entries 81
Mean −208.4
Std Dev 246.5

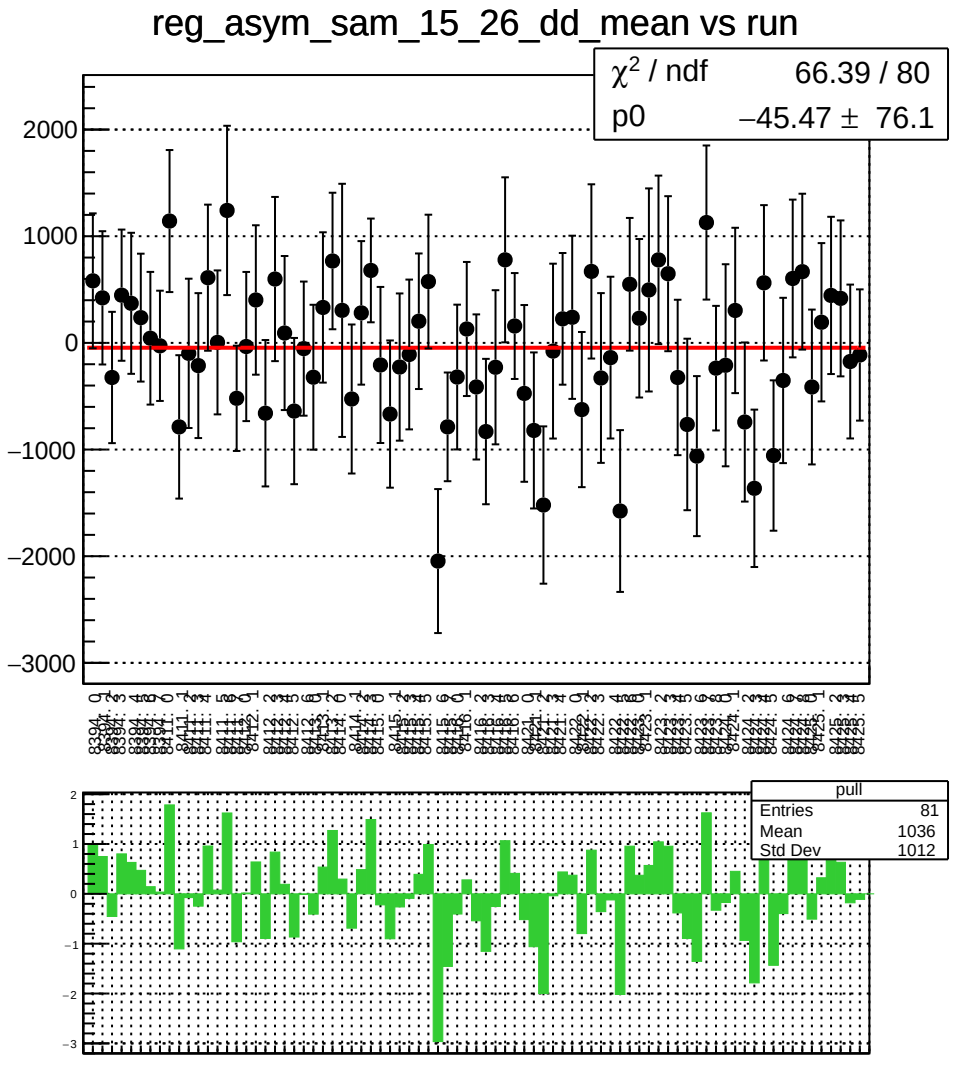

pull1D
Entries 81
Mean −0.01082
Std Dev 1.081

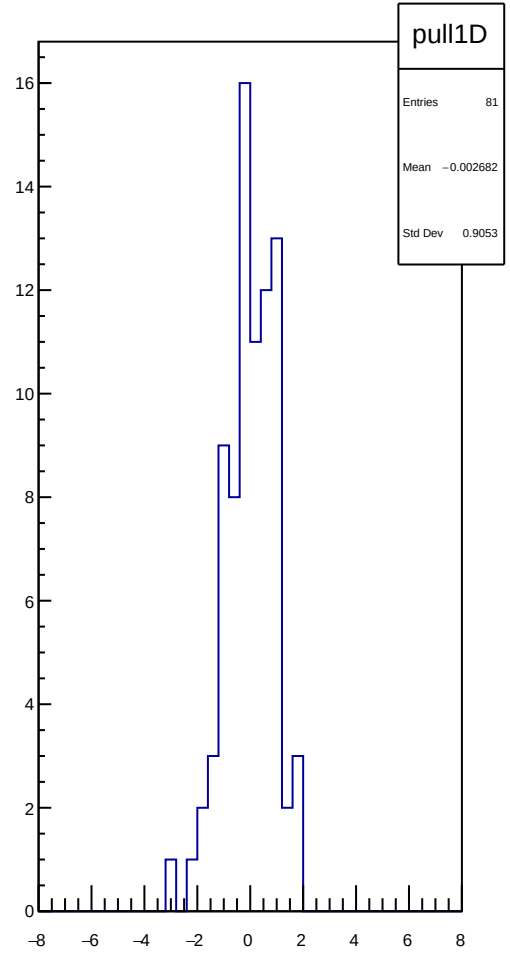

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 4134 / 80
p0 401.3 ± 0.3182
480
460
440
420
400
380
360

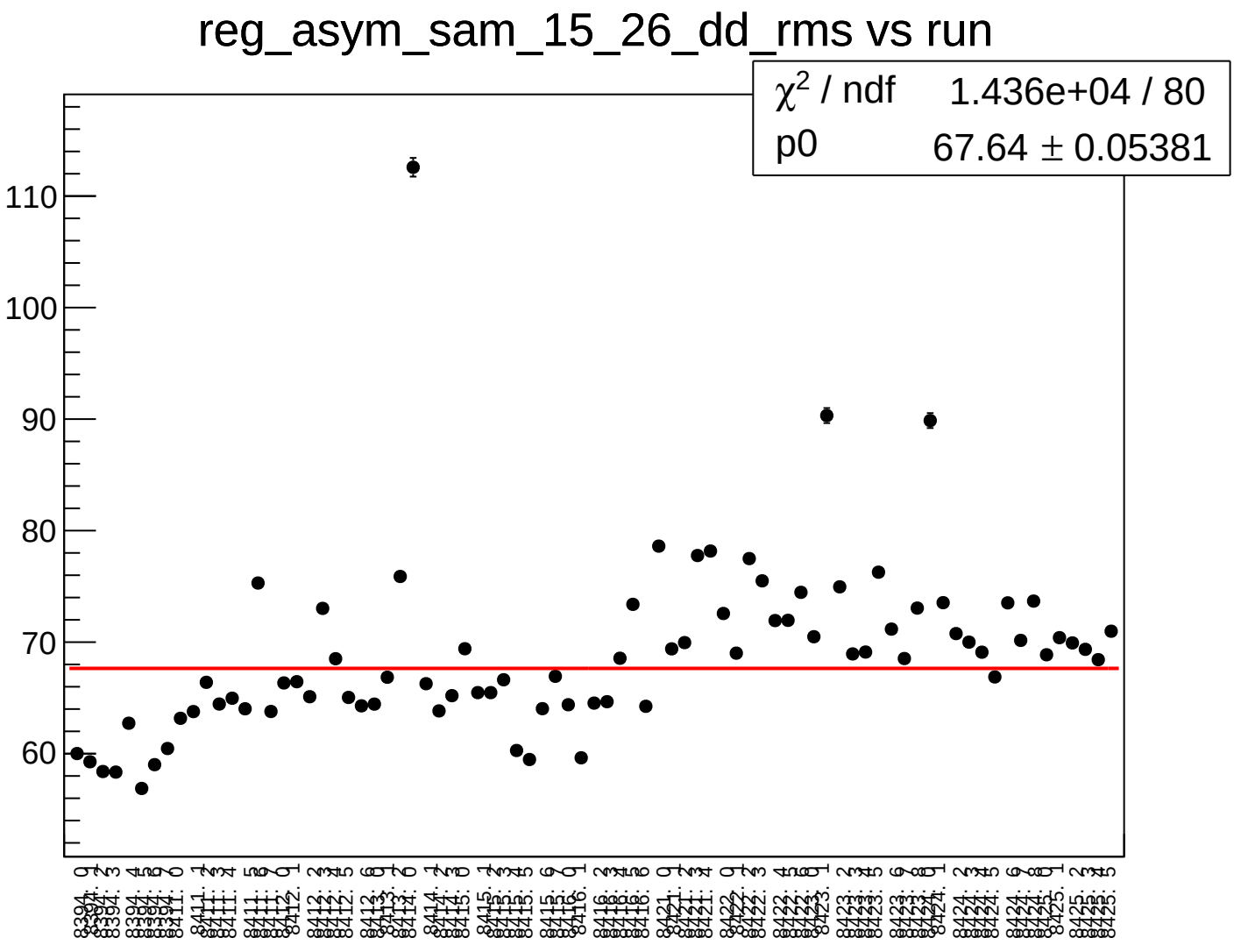

asym_sam_37_48_dd_mean vs run
χ² / ndf 94.67 / 80
p0 −2959 ± 454.3
pull
Entries 81
Mean −159.7
Std Dev 196

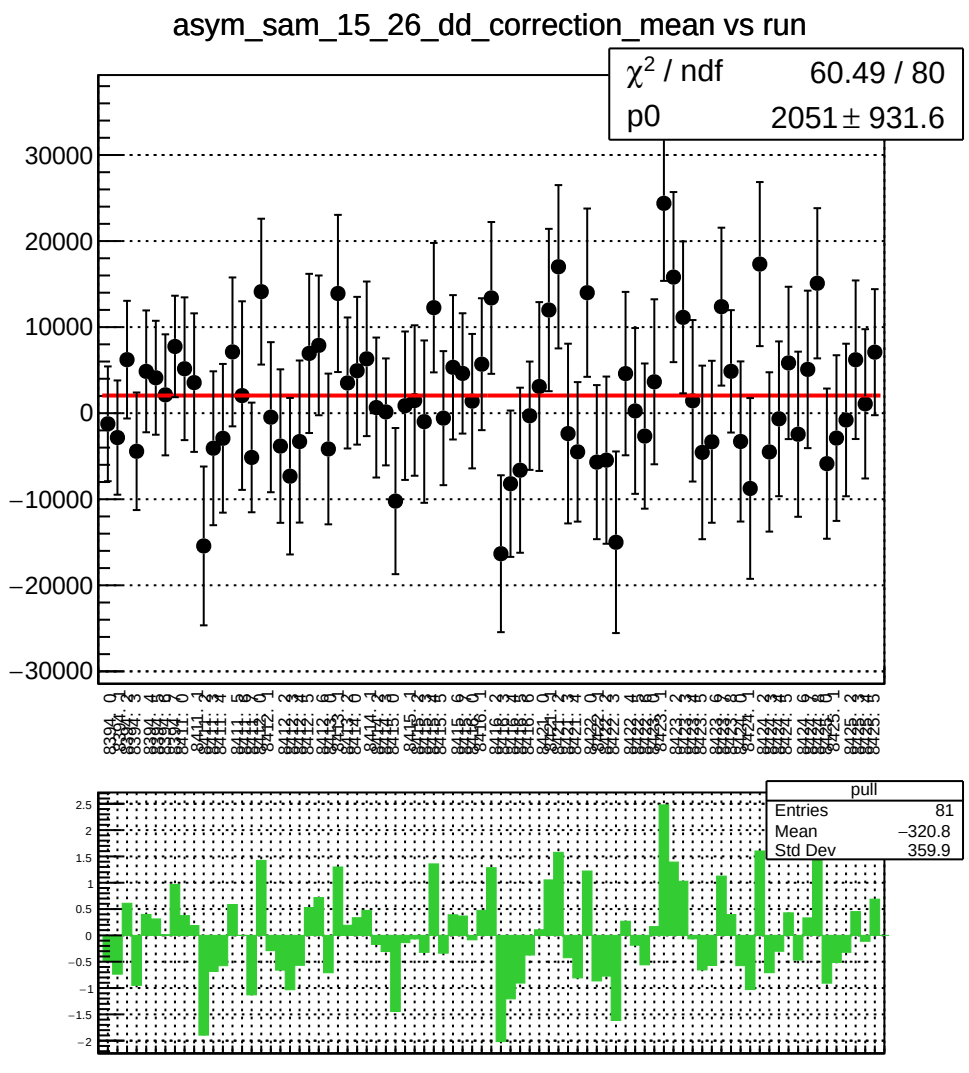

pull1D
Entries 81
Mean 0.01271
Std Dev 1.081

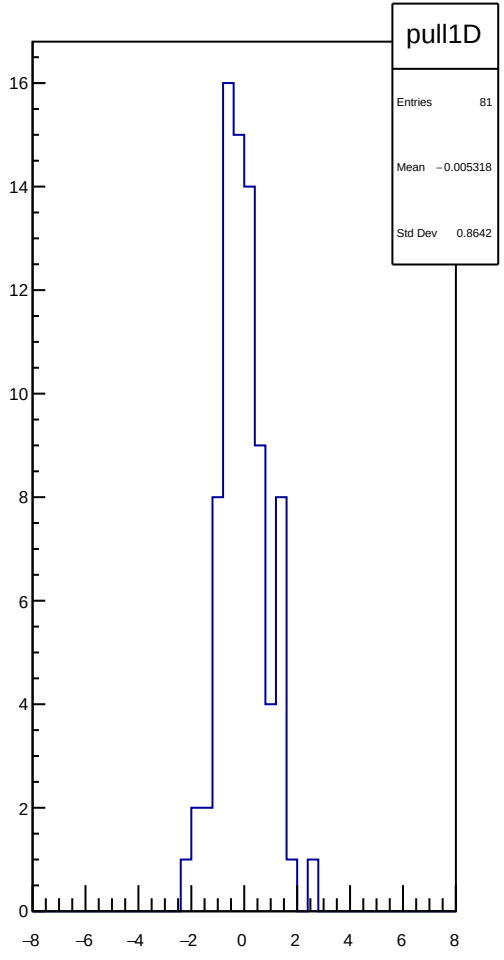

asym_sam_37_48_dd_rms vs run
χ² / ndf 3976 / 80
p0 405.1 ± 0.3212
480
460
440
420
400
380
360

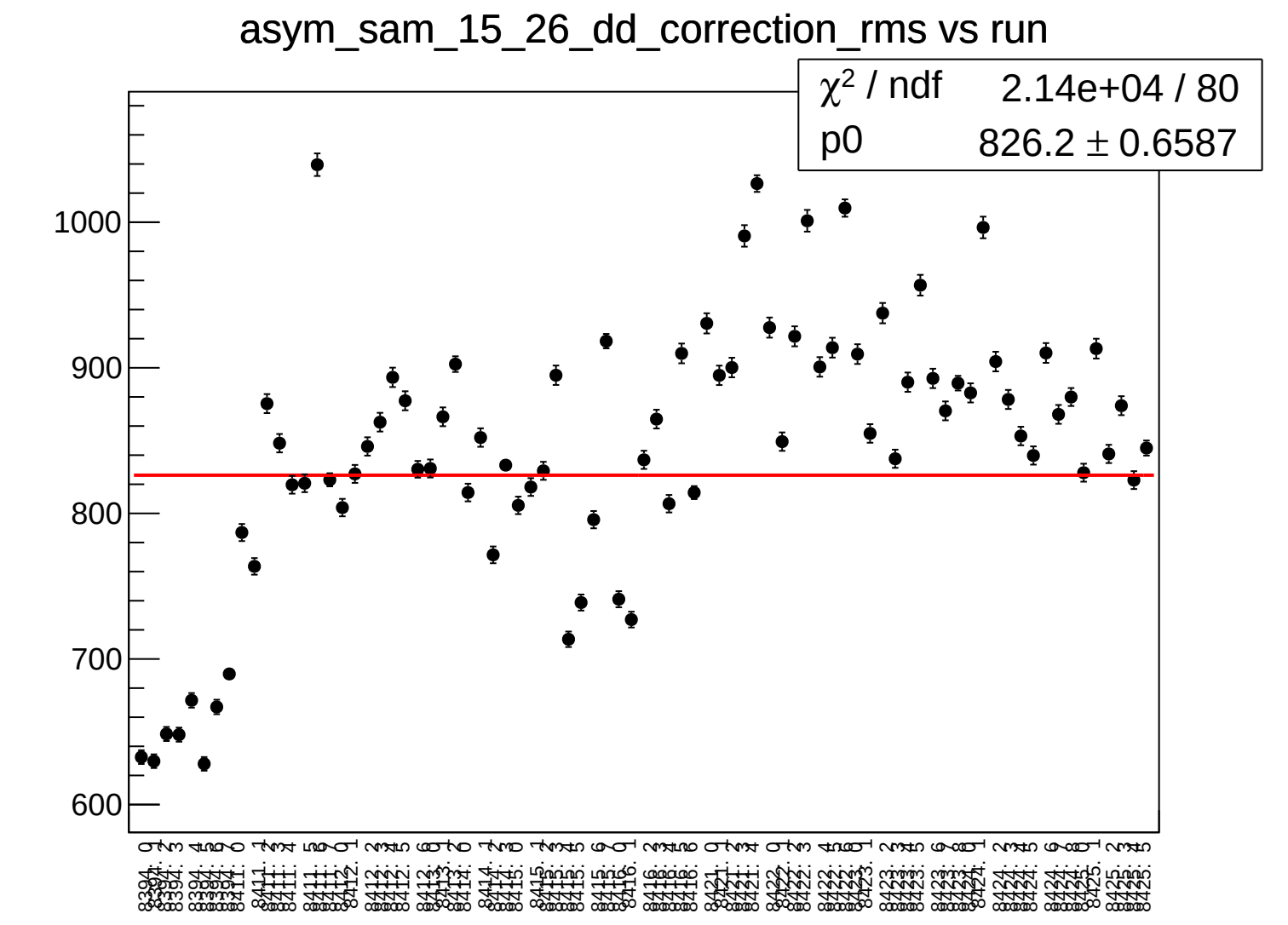

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 66.39 / 80
p0 −45.47 ± 76.1
pull
Entries 81
Mean 1036
Std Dev 1012

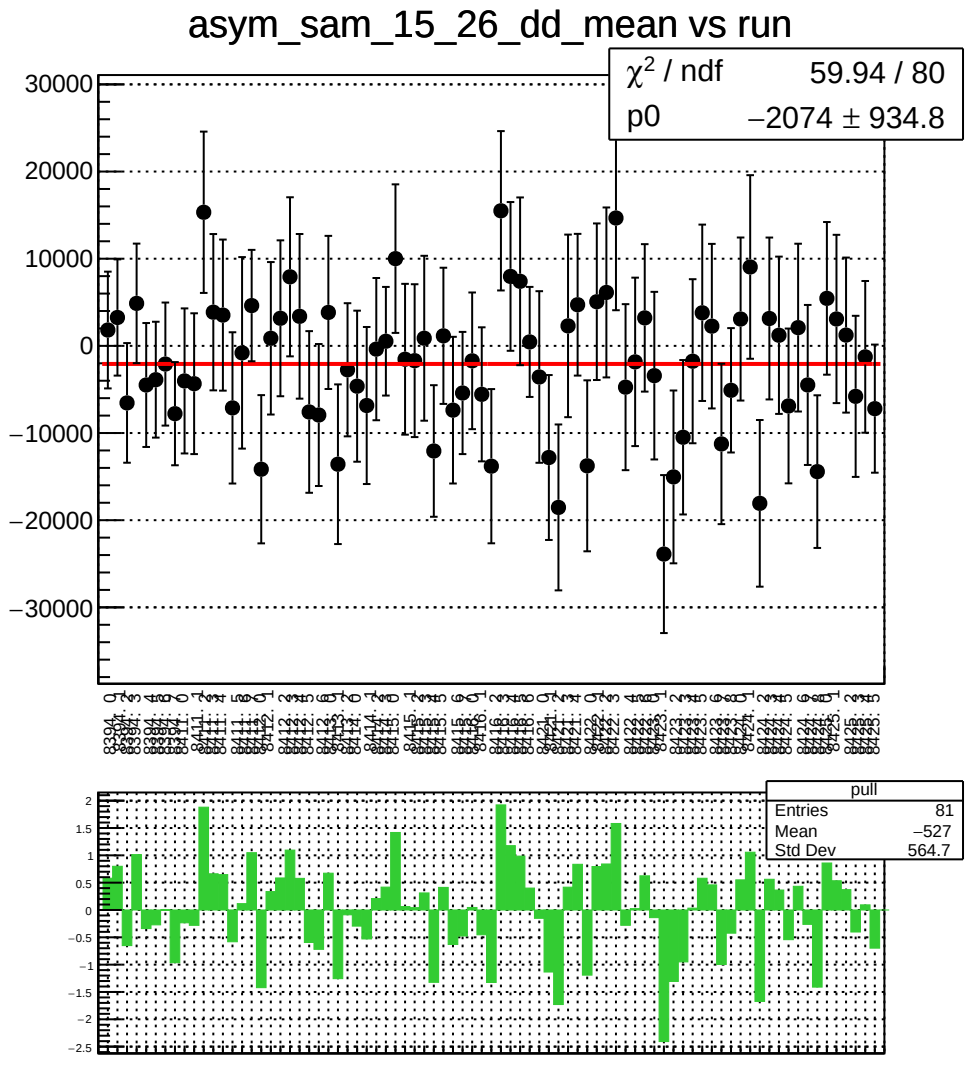

pull1D
Entries 81
Mean −0.002682
Std Dev 0.9053

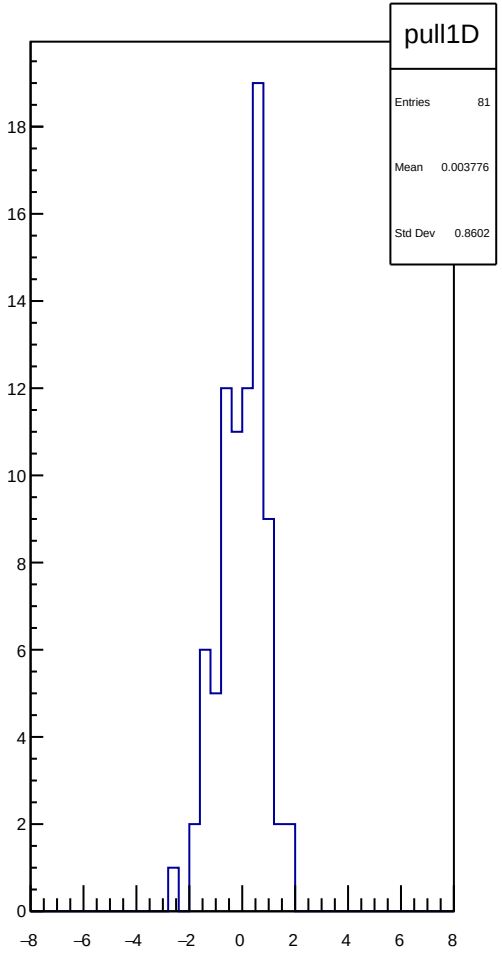

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.436e+04 / 80
p0 67.64 ± 0.05381
110
100
90
80
70
60

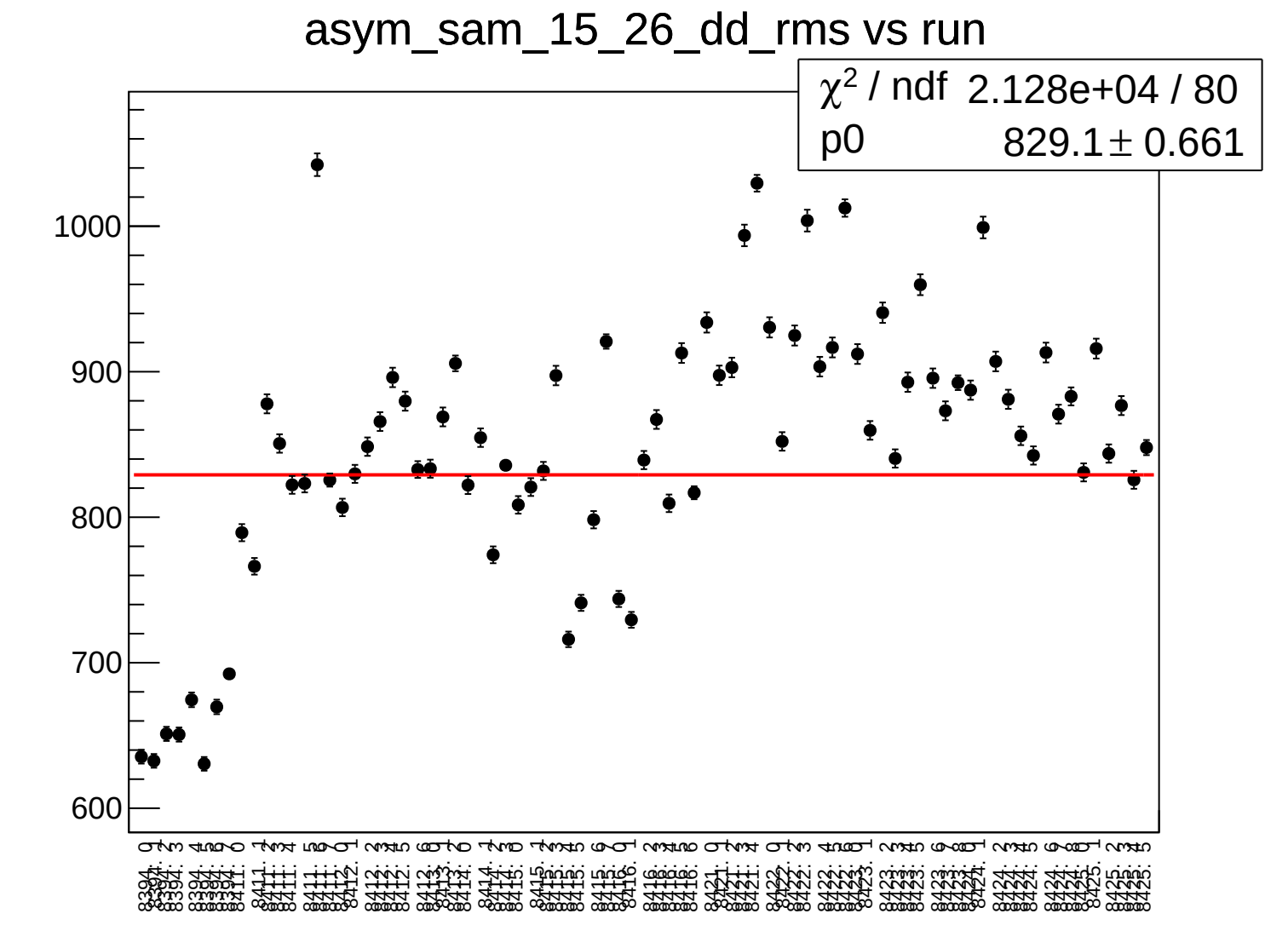

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 60.49 / 80
p0 2051 ± 931.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −320.8
Std Dev 359.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

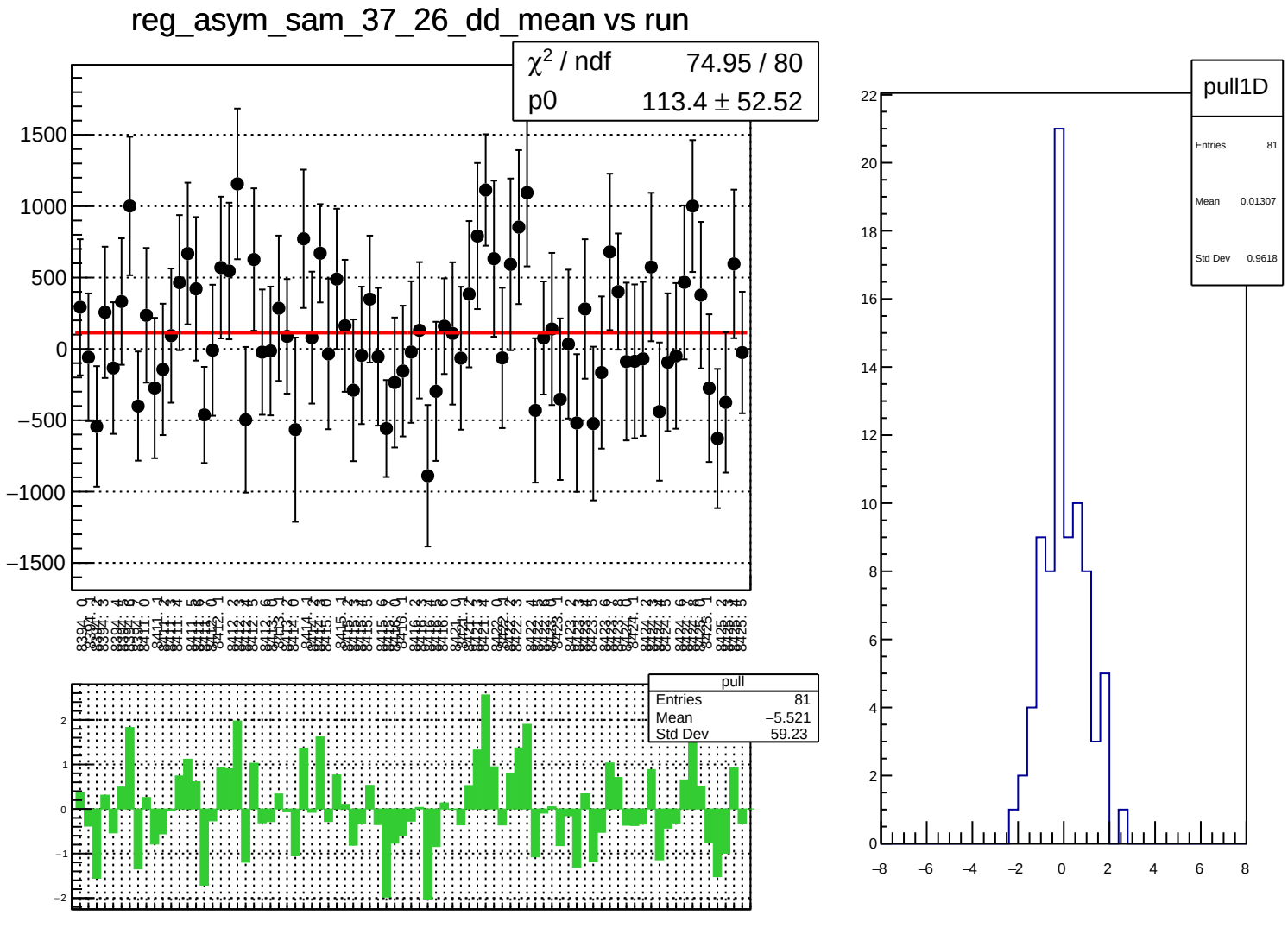

pull1D
Entries 81
Mean −0.005318
Std Dev 0.8642
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

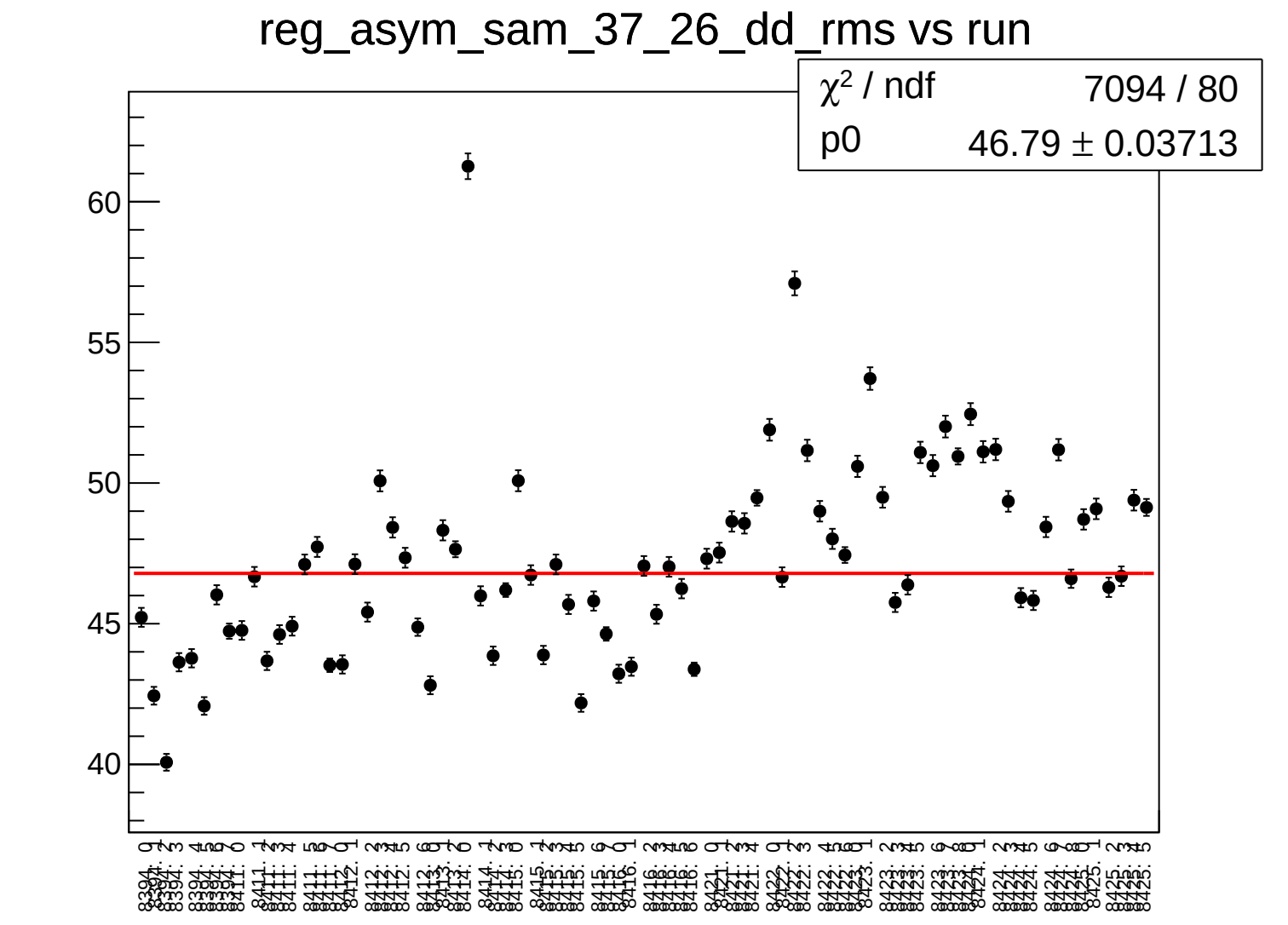

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 2.14e+04 / 80
p0 826.2 ± 0.6587
1000
900
800
700
600

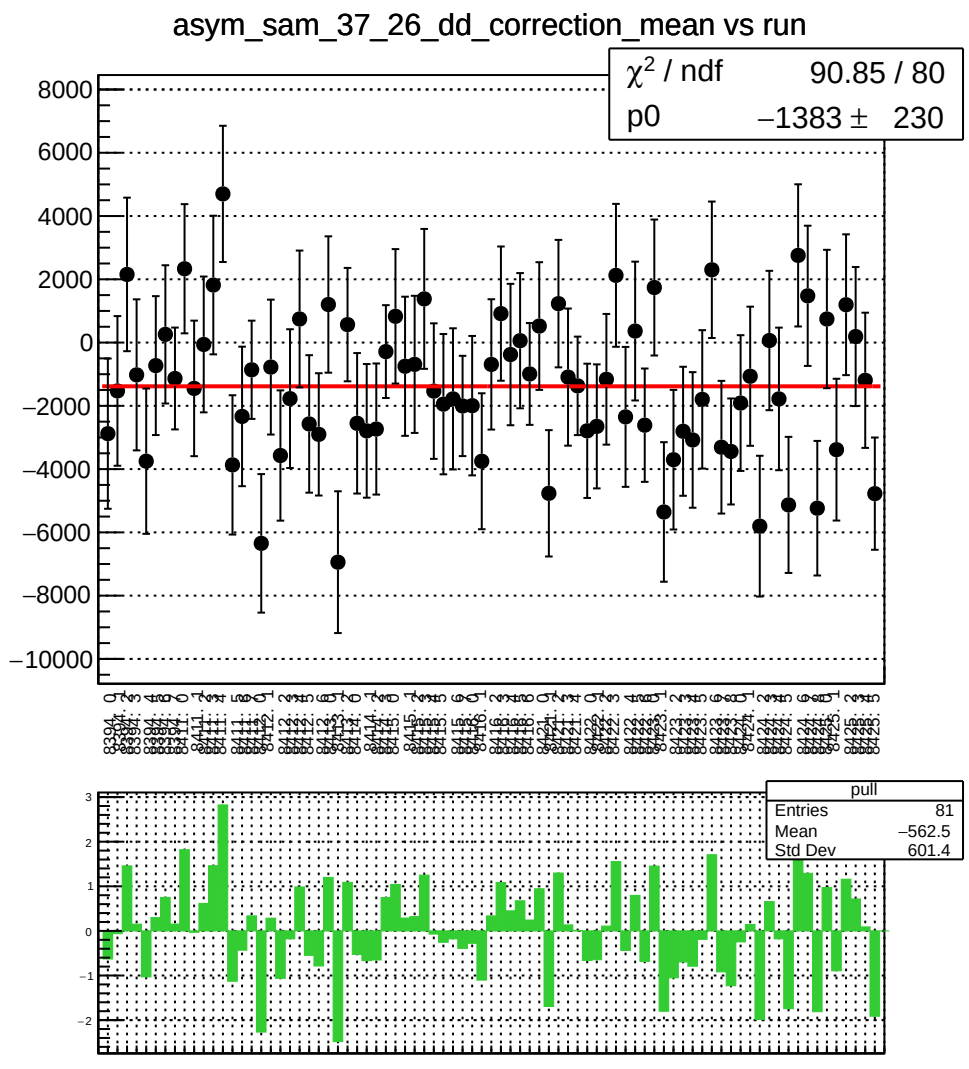

asym_sam_15_26_dd_mean vs run
χ² / ndf 59.94 / 80
p0 −2074 ± 934.8
pull
Entries 81
Mean −527
Std Dev 564.7

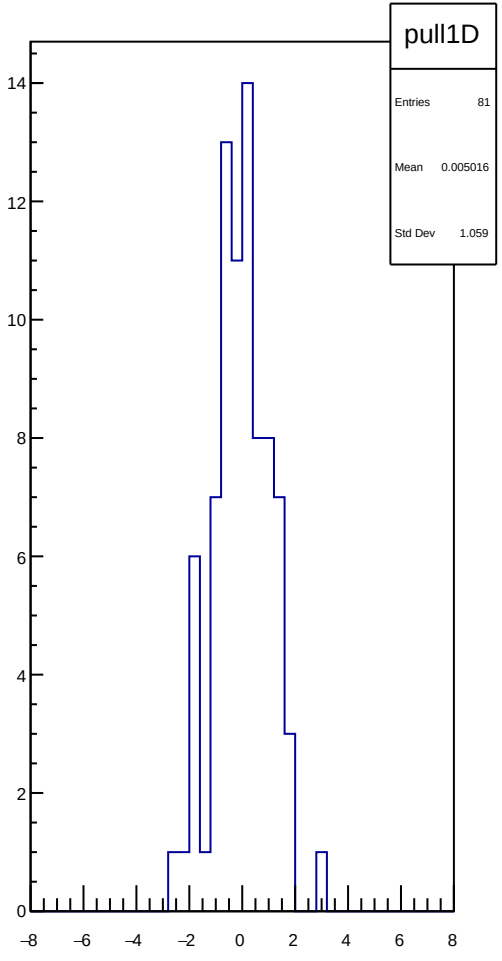

pull1D
Entries 81
Mean 0.003776
Std Dev 0.8602

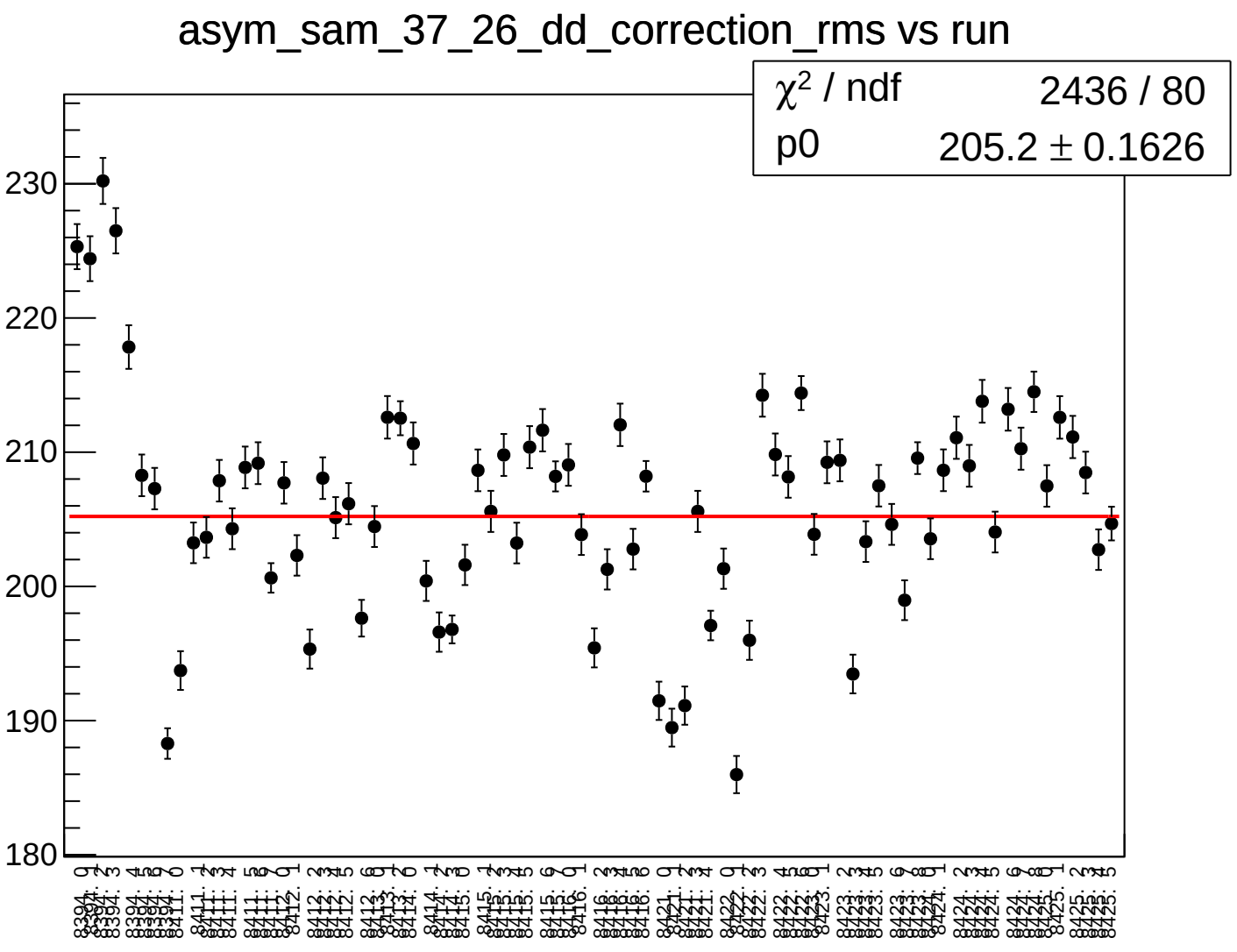

asym_sam_15_26_dd_rms vs run
χ² / ndf 2.128e+04 / 80
p0 829.1 ± 0.661
1000
900
800
700
600

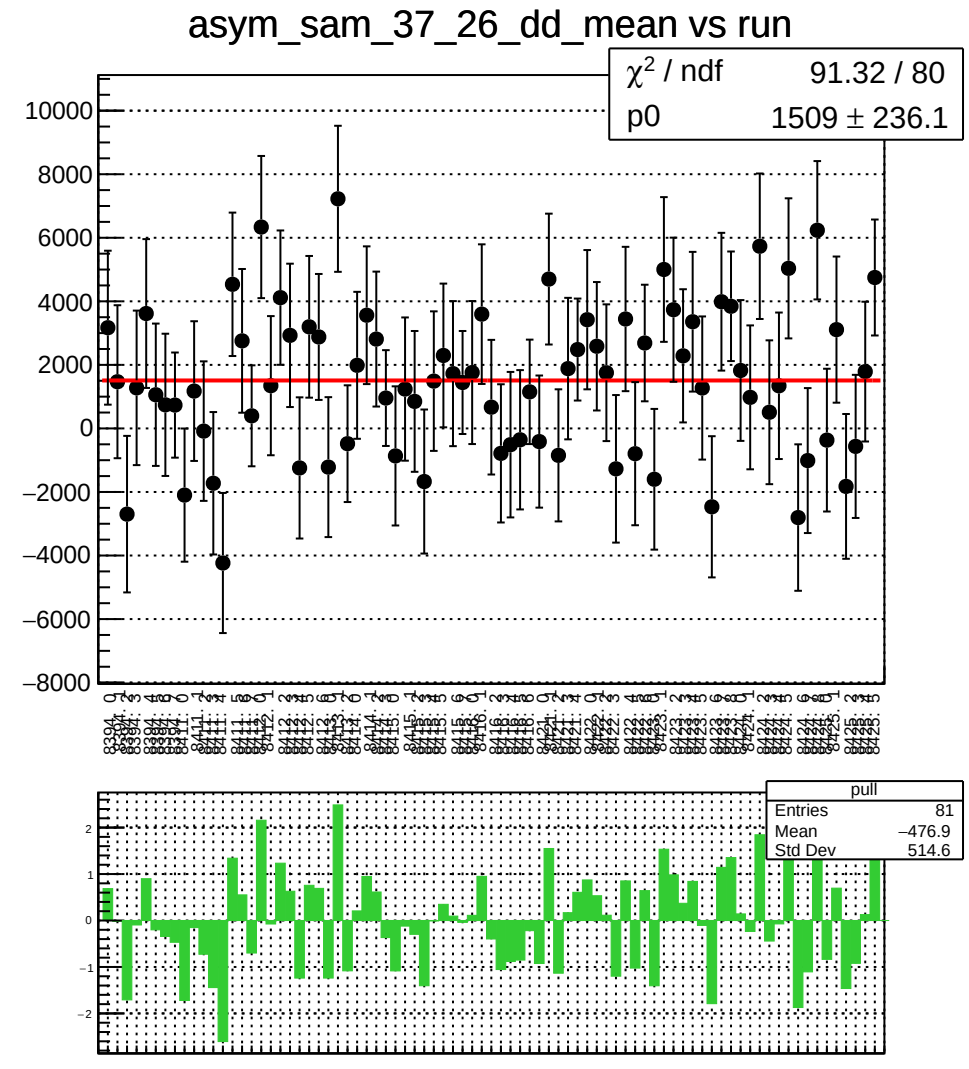

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 74.95 / 80
p0 113.4 ± 52.52
1500
1000
500
0
−500
−1000
−1500
pull
Entries 81
Mean −5.521
Std Dev 59.23
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.01307
Std Dev 0.9618
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

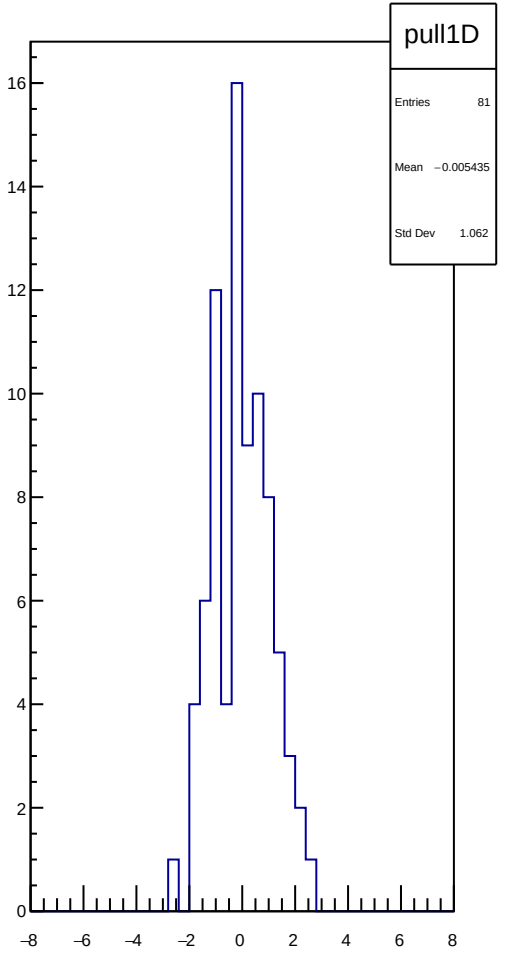

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 7094 / 80
p0 46.79 ± 0.03713
60
55
50
45
40

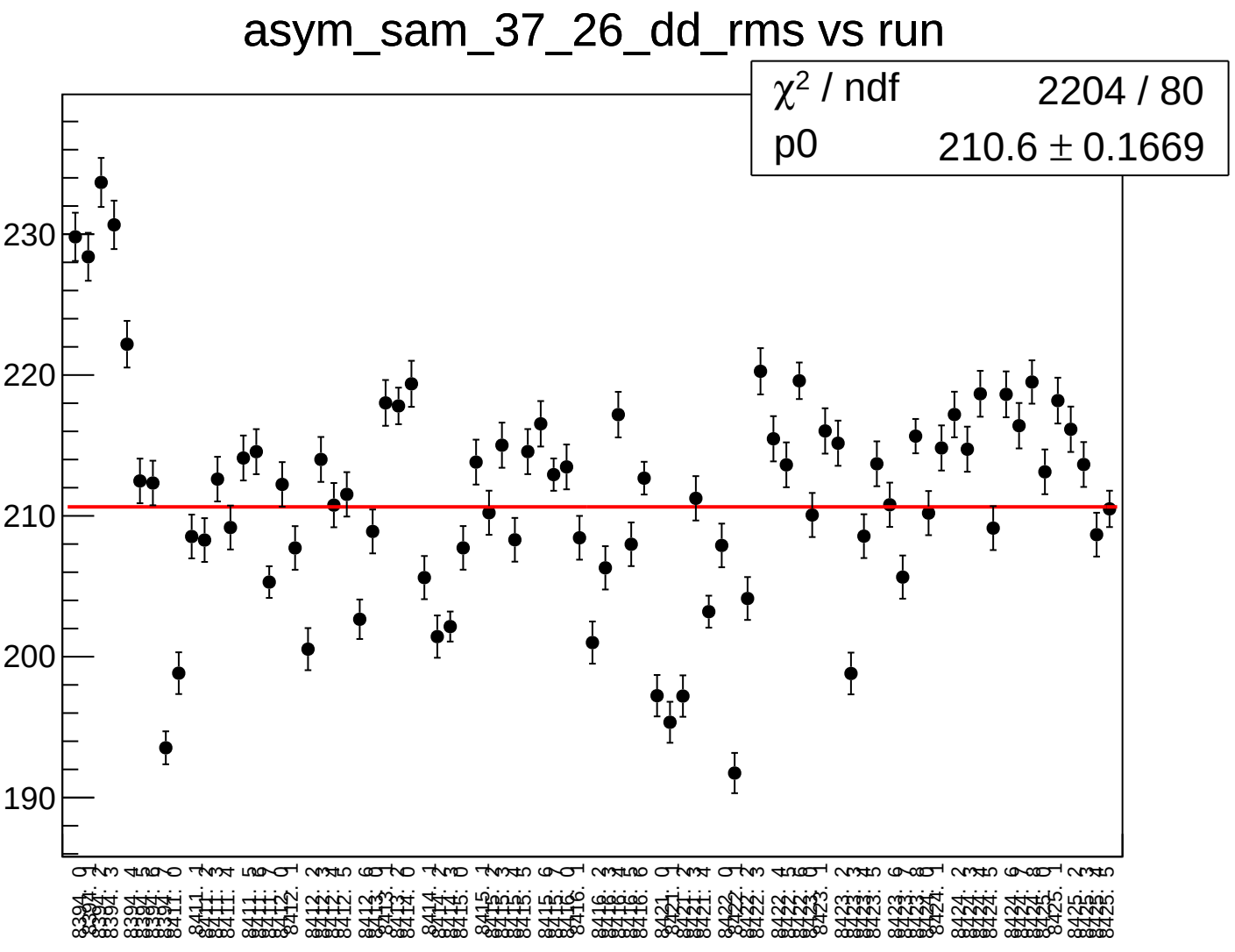

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 90.85 / 80
p0 −1383 ± 230
pull
Entries 81
Mean −562.5
Std Dev 601.4

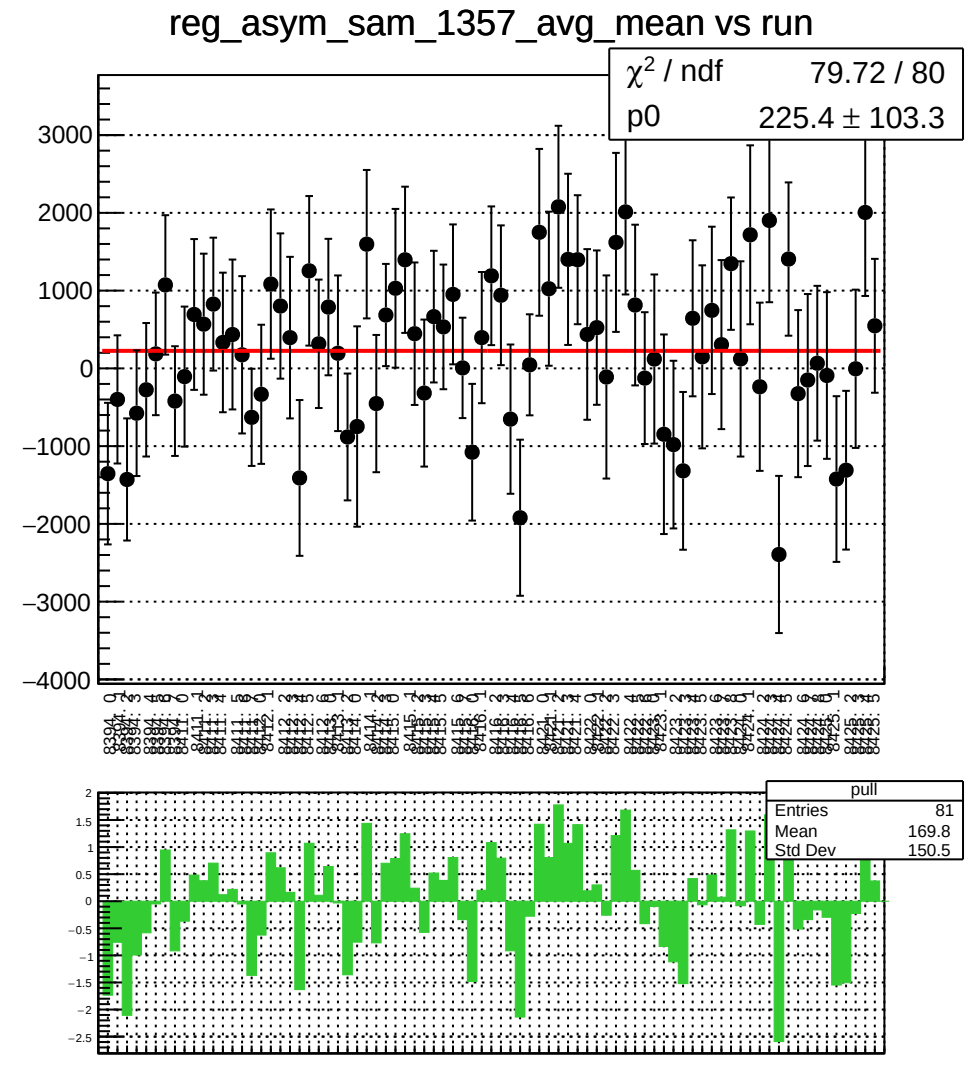

pull1D
Entries 81
Mean 0.005016
Std Dev 1.059

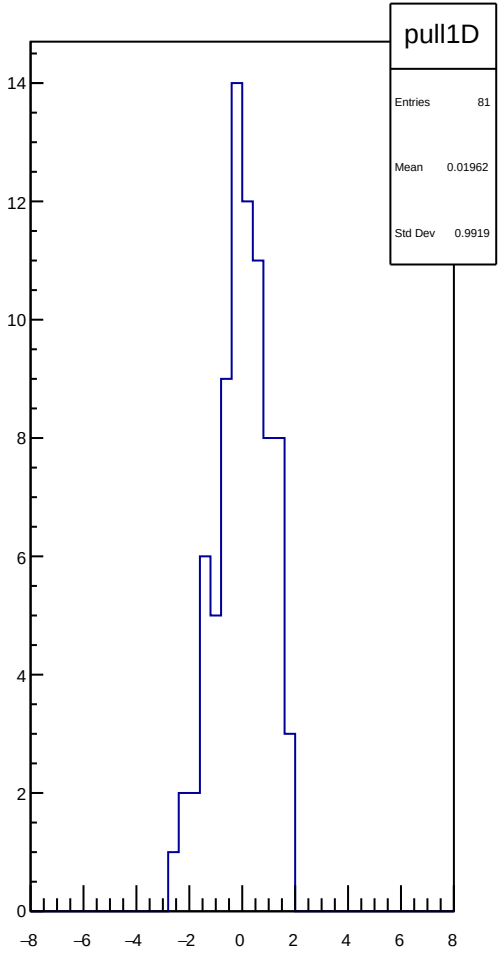

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 2436 / 80
p0 205.2 ± 0.1626
230
220
210
200
190
180

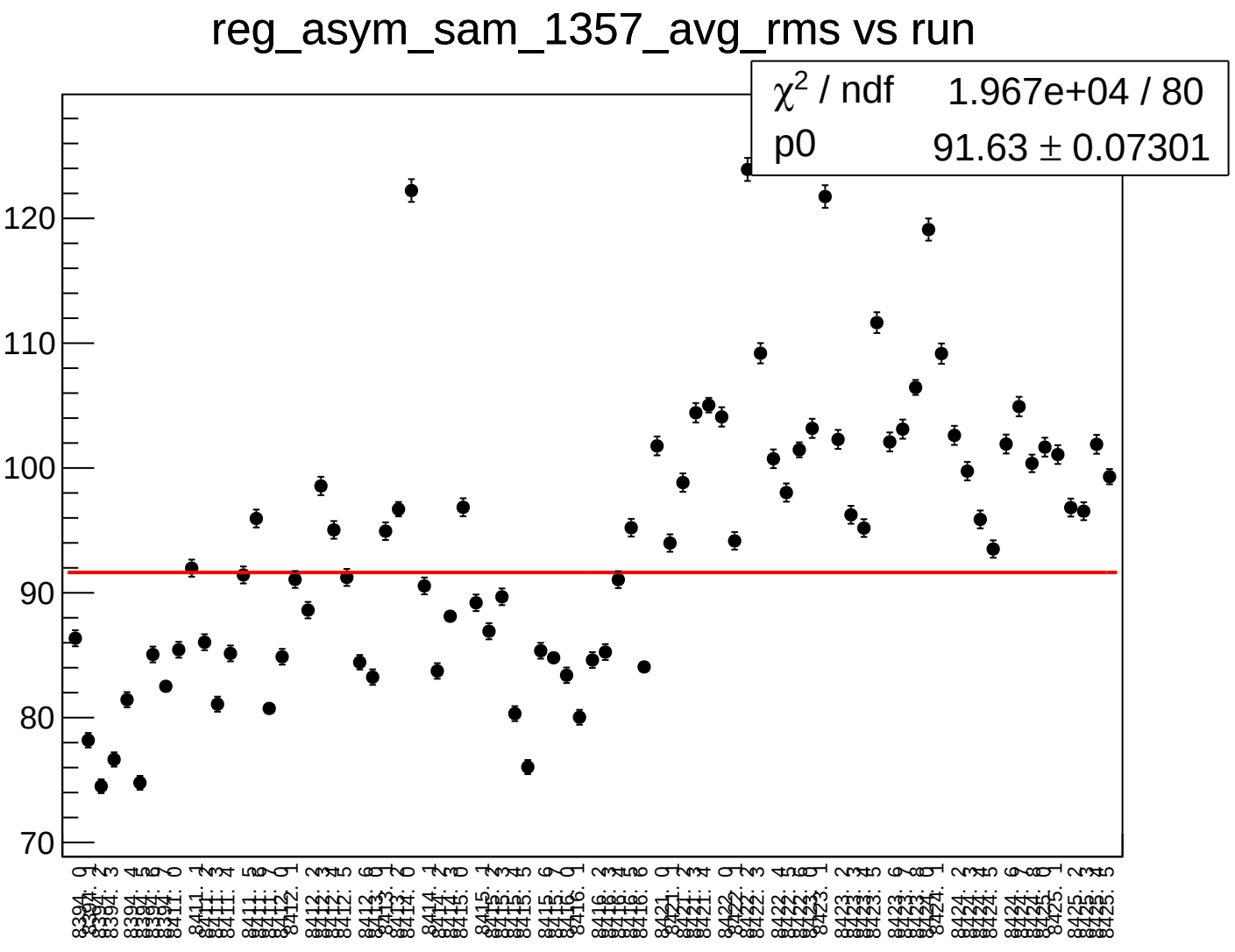

asym_sam_37_26_dd_mean vs run
χ² / ndf 91.32 / 80
p0 1509 ± 236.1
pull
Entries 81
Mean −476.9
Std Dev 514.6

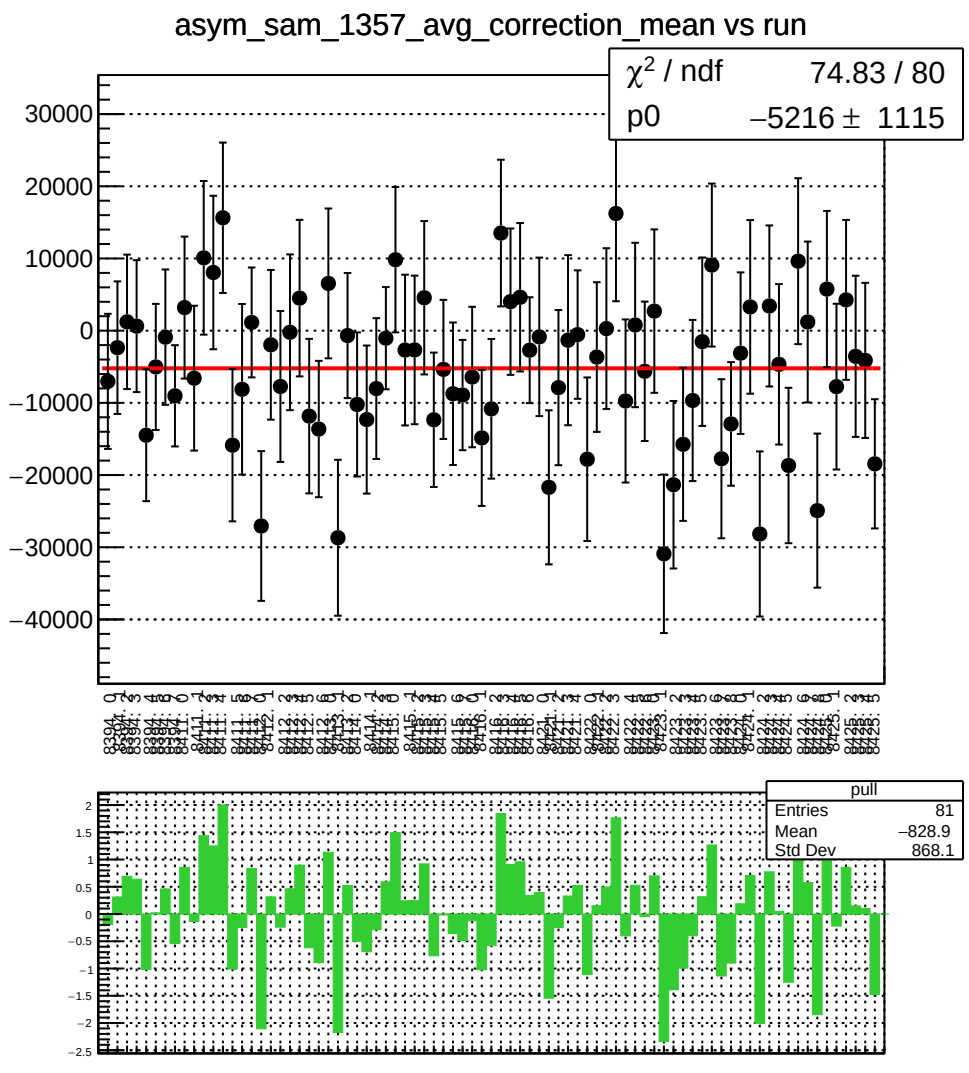

pull1D
Entries 81
Mean −0.005435
Std Dev 1.062

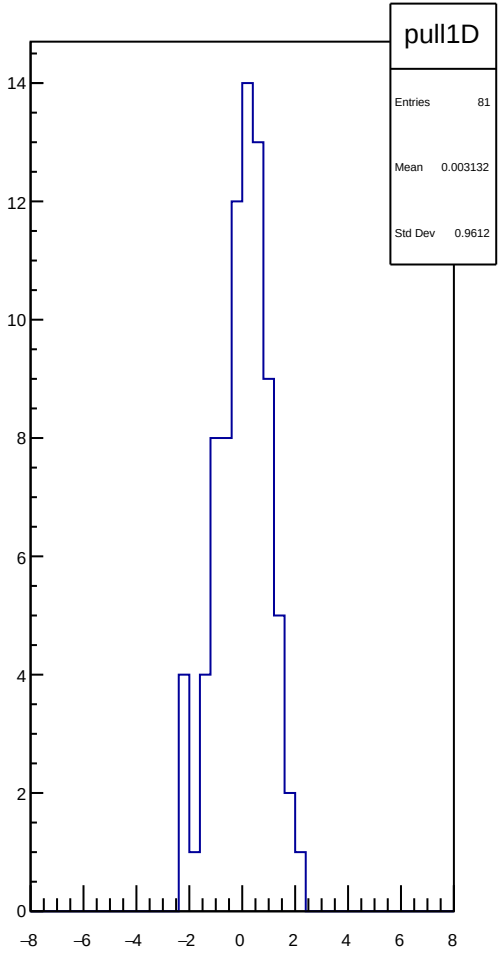

asym_sam_37_26_dd_rms vs run
χ² / ndf 2204 / 80
p0 210.6 ± 0.1669
230
220
210
200
190

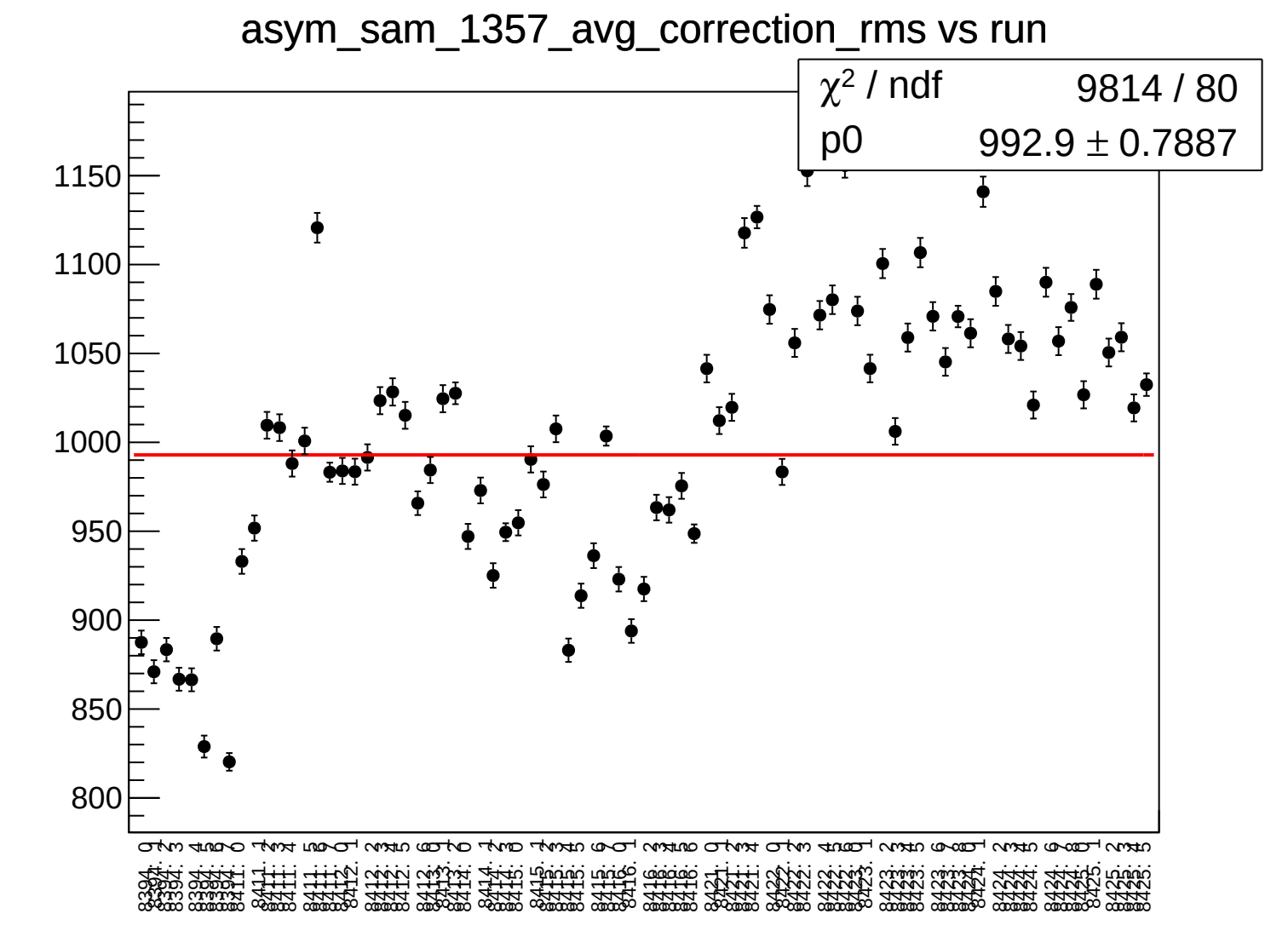

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 79.72 / 80
p0 225.4 ± 103.3
pull
Entries 81
Mean 169.8
Std Dev 150.5

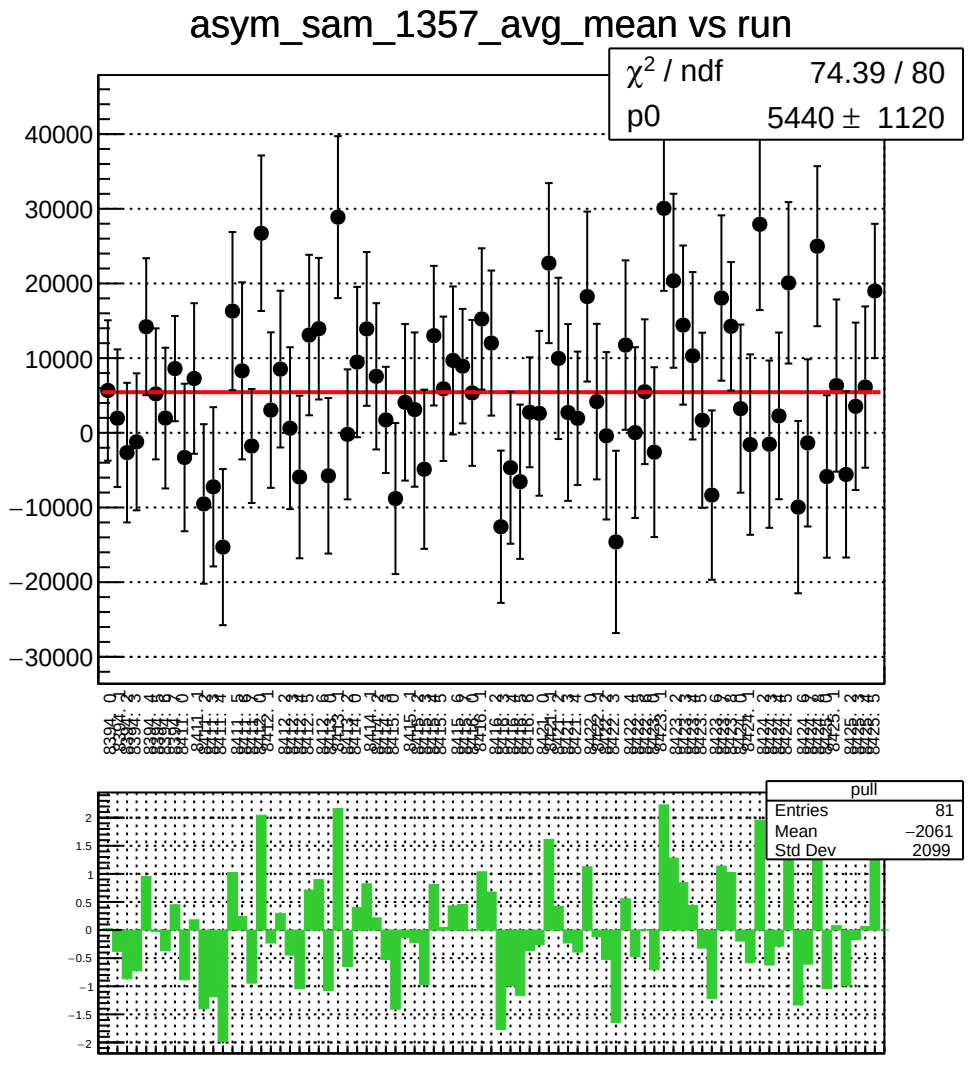

pull1D
Entries 81
Mean 0.01962
Std Dev 0.9919

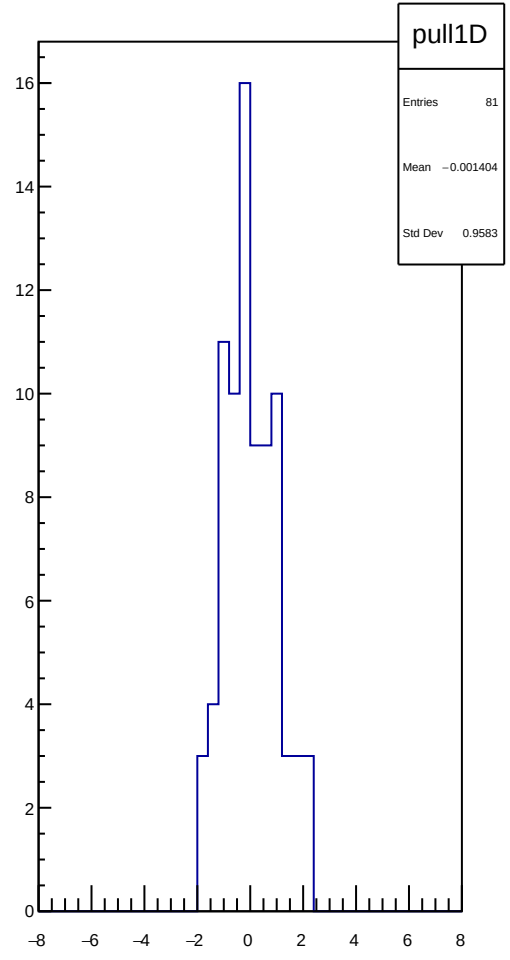

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.967e+04 / 80
p0 91.63 ± 0.07301
120
110
100
90
80
70

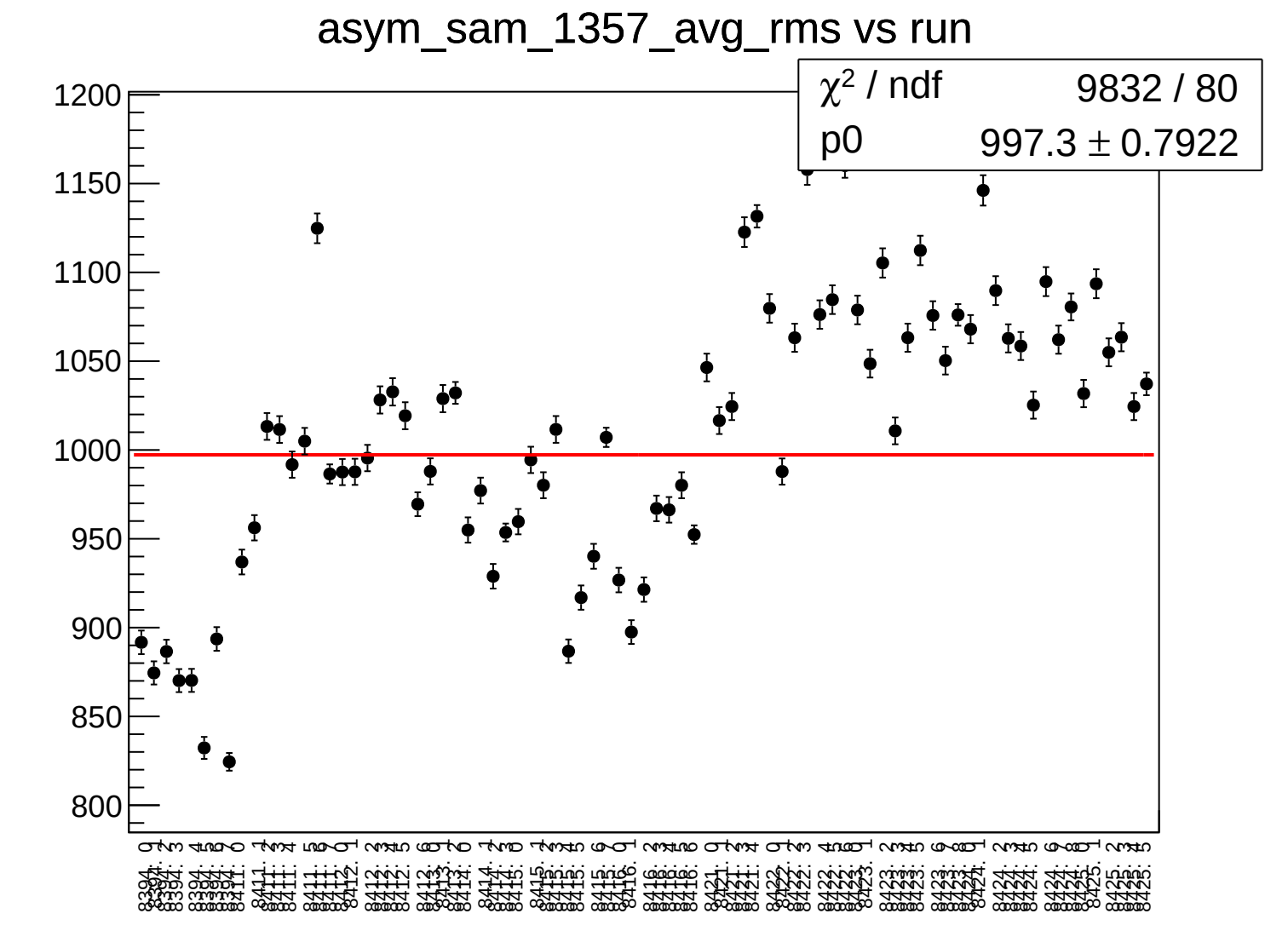

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 74.83 / 80
p0 −5216 ± 1115
pull
Entries 81
Mean −828.9
Std Dev 868.1

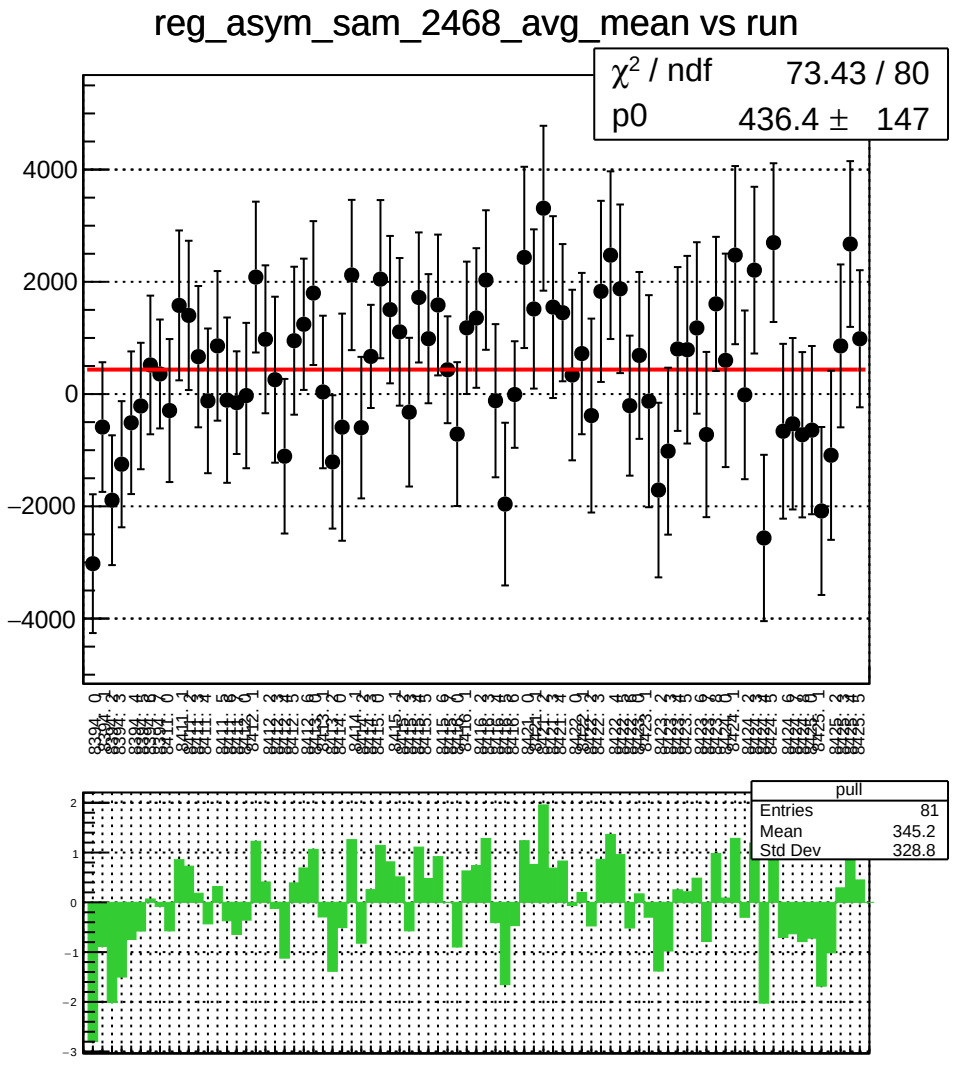

pull1D
Entries 81
Mean 0.003132
Std Dev 0.9612

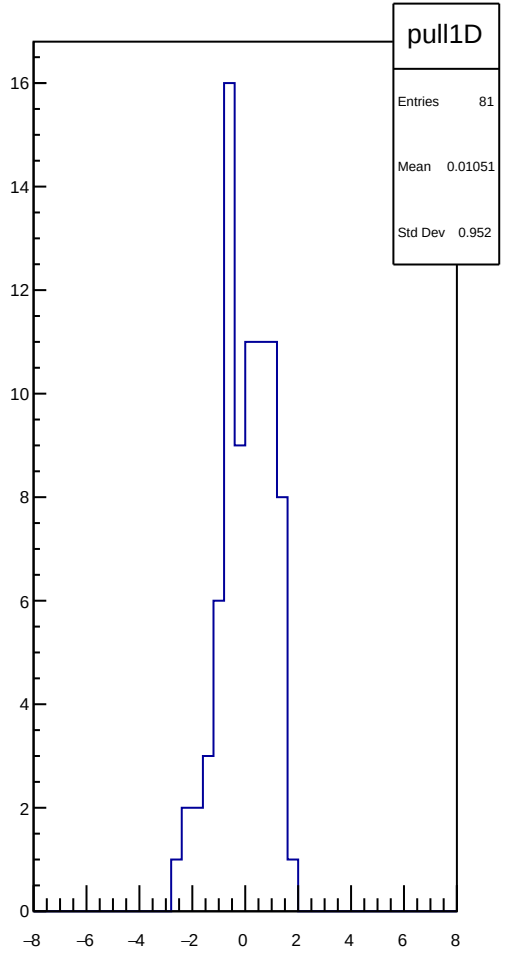

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 9814 / 80
p0 992.9 ± 0.7887
1150
1100
1050
1000
950
900
850
800

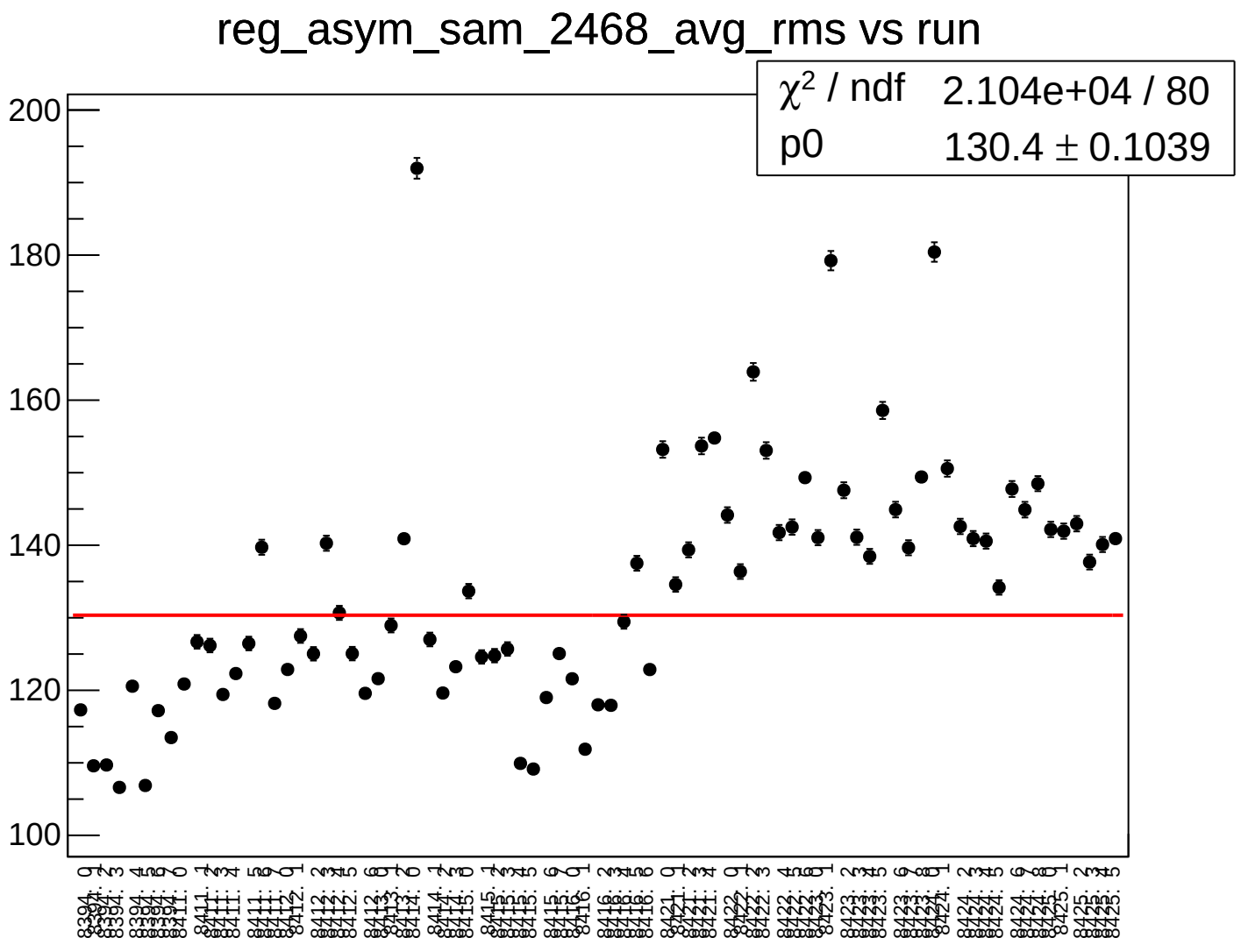

asym_sam_1357_avg_mean vs run
χ² / ndf 74.39 / 80
p0 5440 ± 1120
pull
Entries 81
Mean −2061
Std Dev 2099

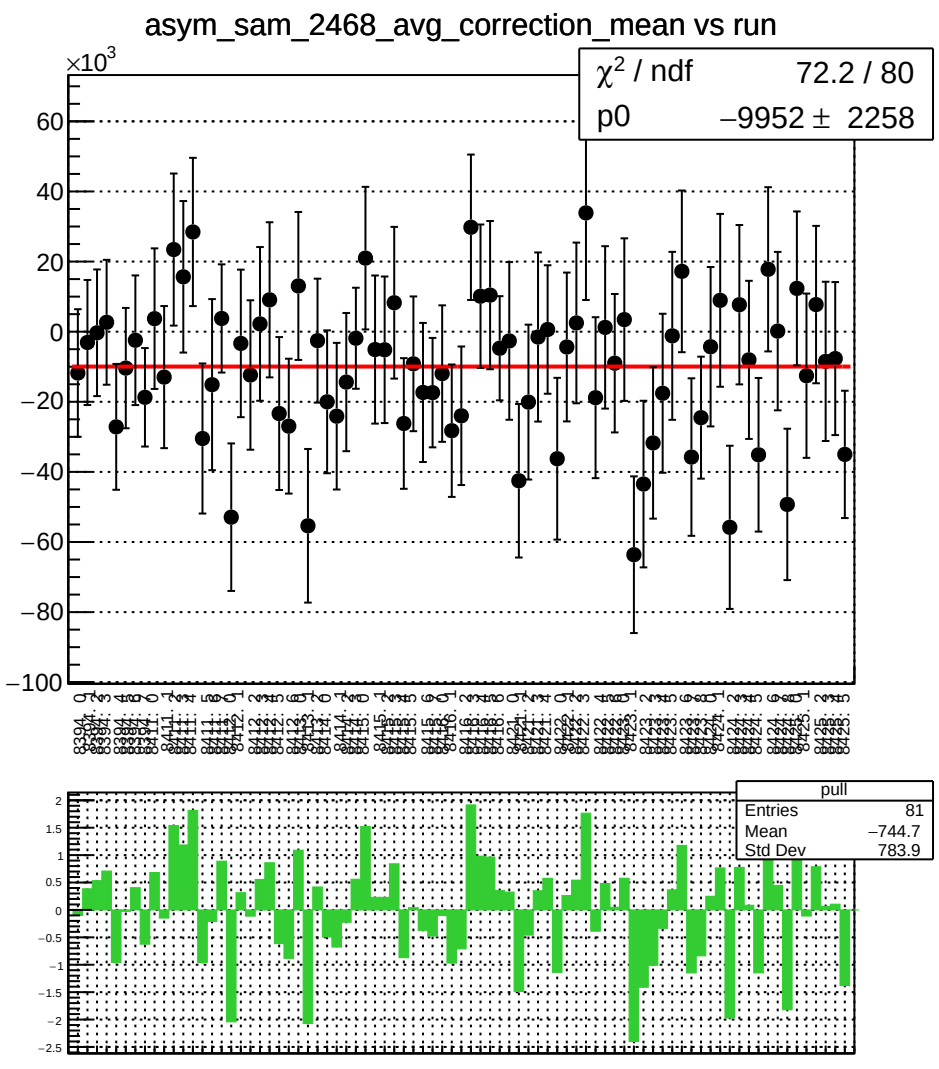

pull1D
Entries 81
Mean −0.001404
Std Dev 0.9583

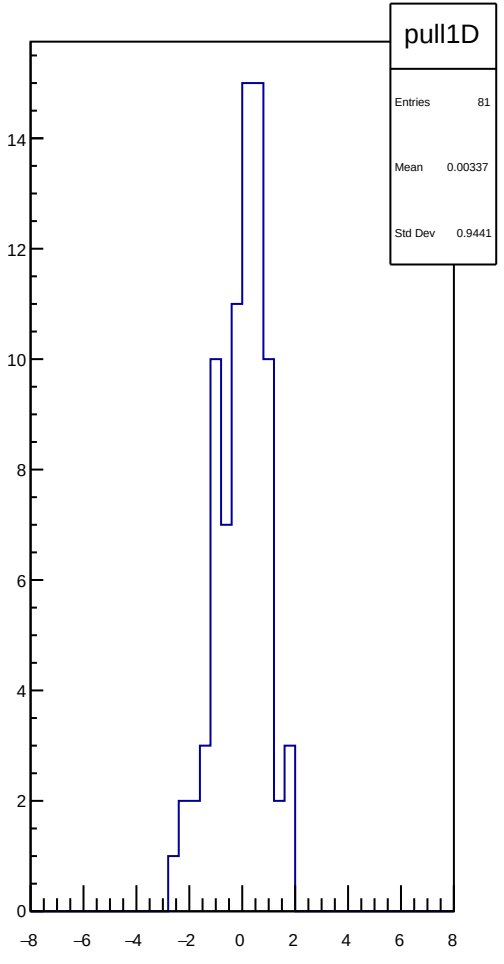

asym_sam_1357_avg_rms vs run
χ² / ndf 9832 / 80
p0 997.3 ± 0.7922
1200
1150
1100
1050
1000
950
900
850
800

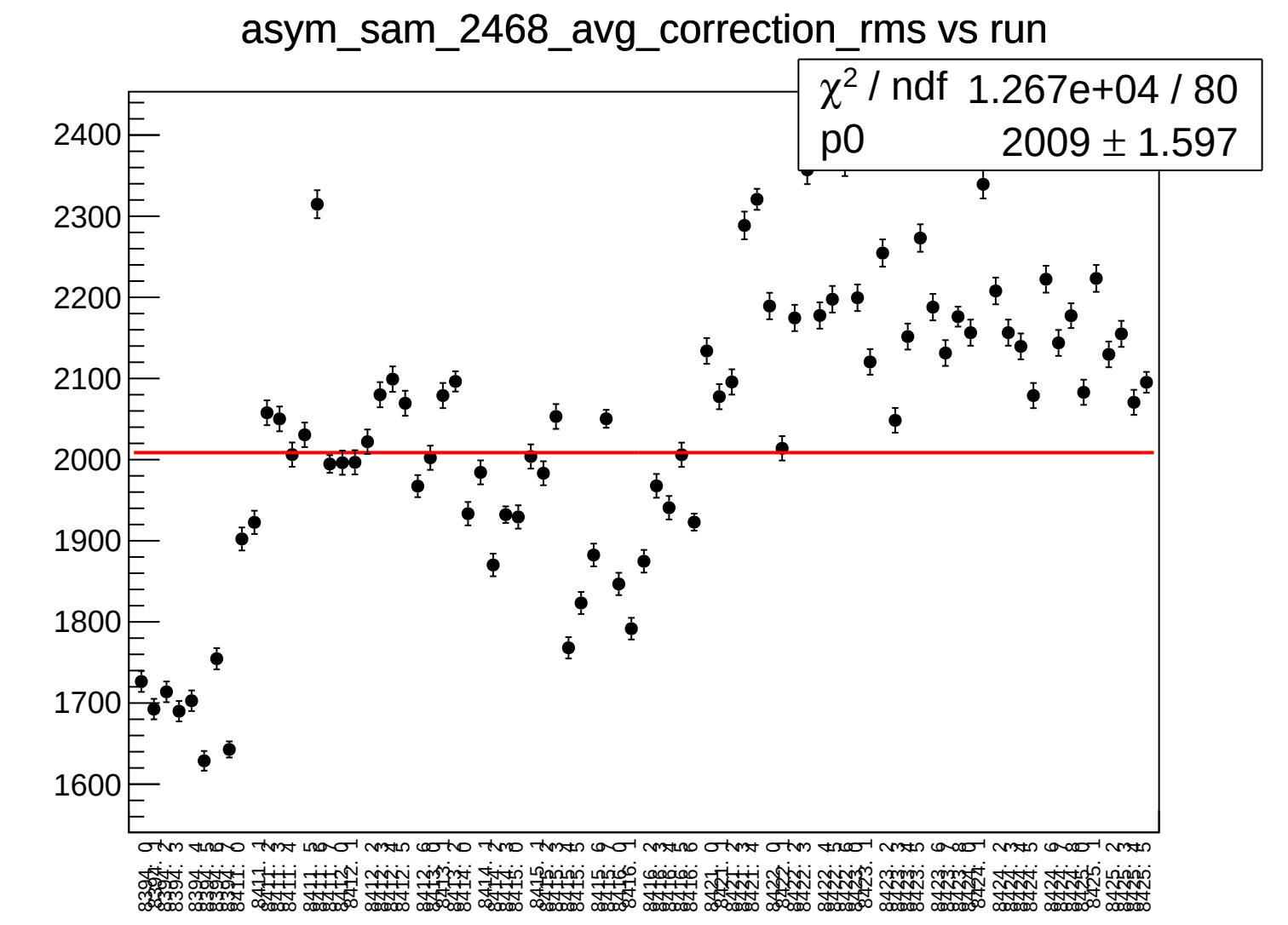

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 73.43 / 80
p0 436.4 ± 147
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 345.2
Std Dev 328.8
2
1
0
−1
−2
−3

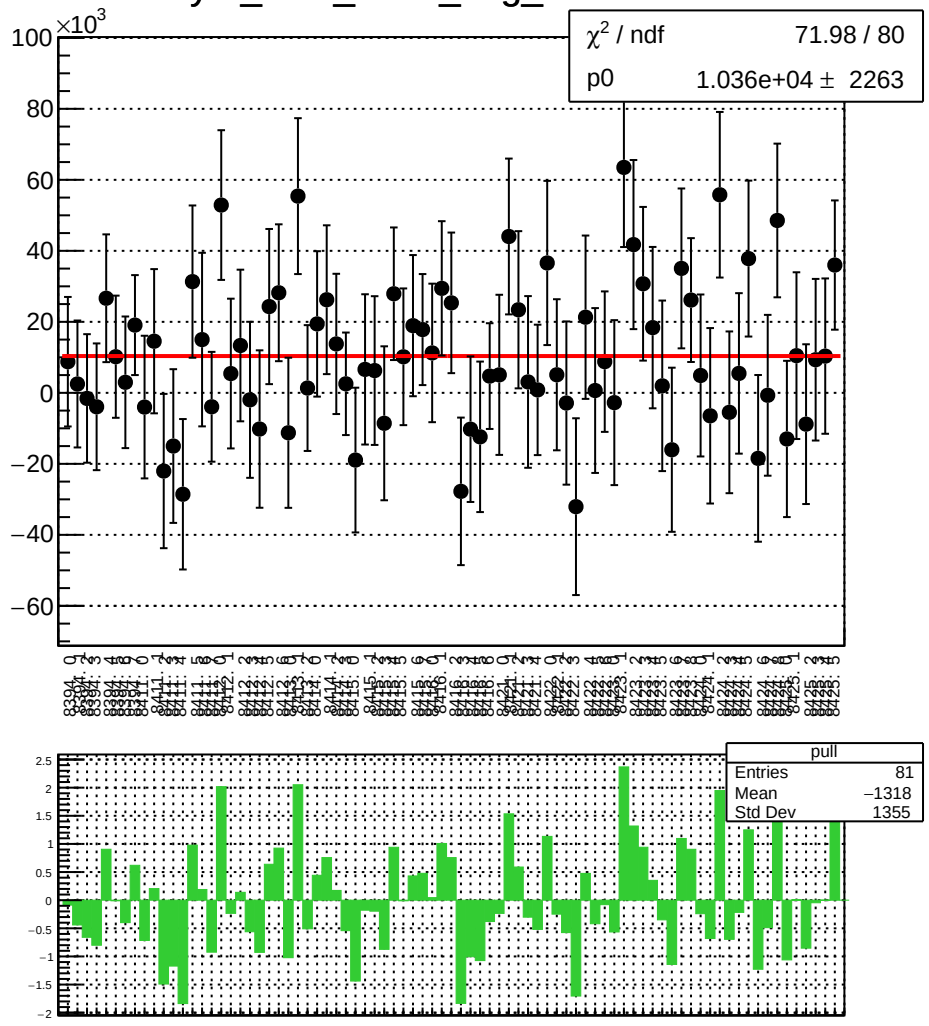

pull1D
Entries 81
Mean 0.01051
Std Dev 0.952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

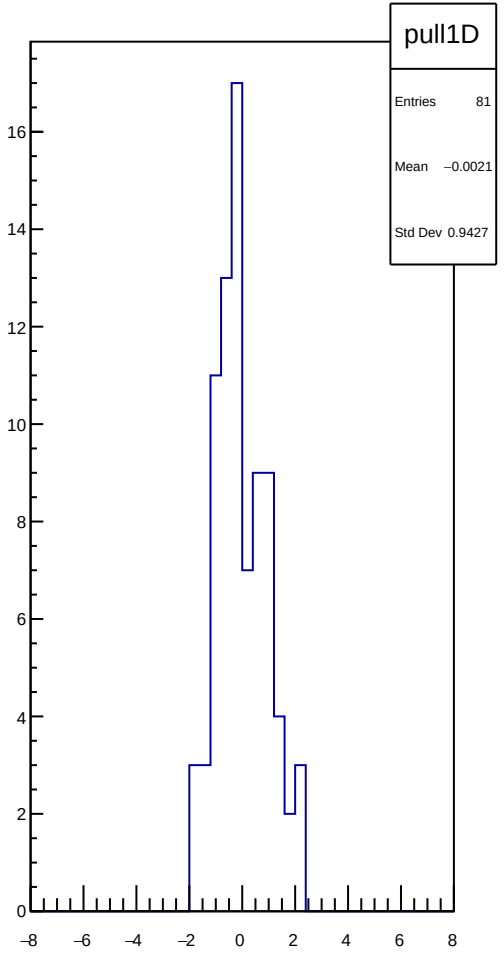

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 2.104e+04 / 80
p0 130.4 ± 0.1039
200
180
160
140
120
100

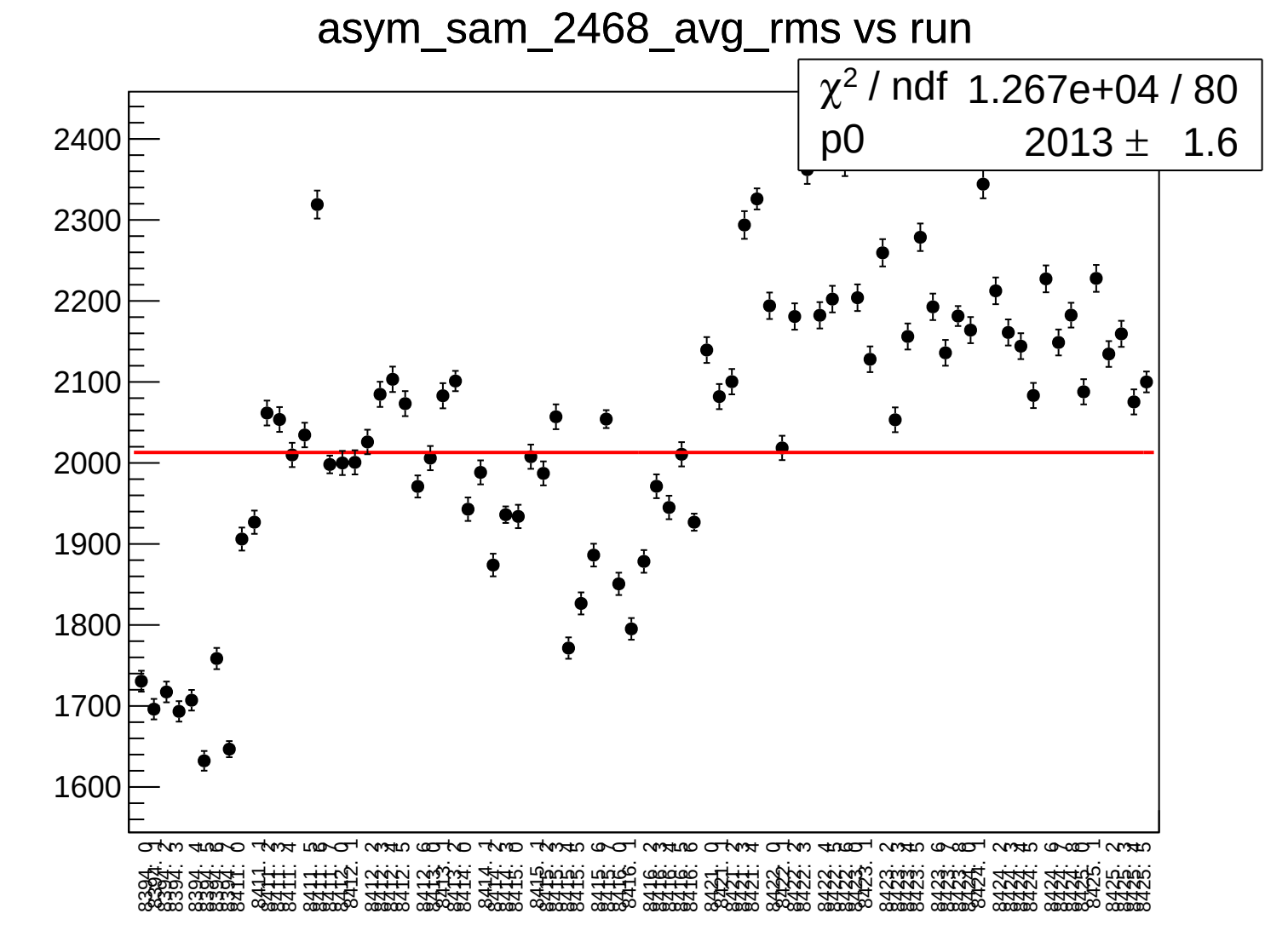

asym_sam_2468_avg_correction_mean vs run
×10^3
χ² / ndf 72.2 / 80
p0 −9952 ± 2258
pull
Entries 81
Mean −744.7
Std Dev 783.9

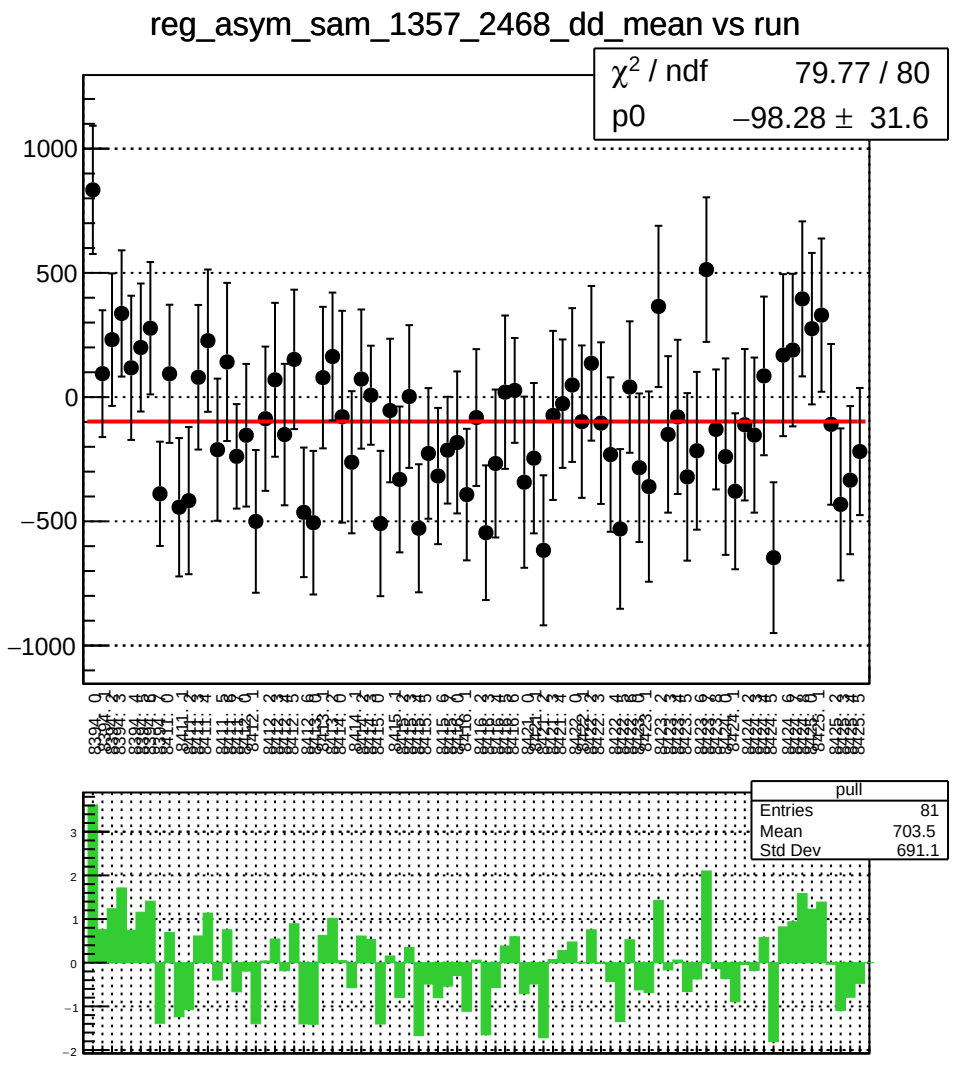

pull1D
Entries 81
Mean 0.00337
Std Dev 0.9441

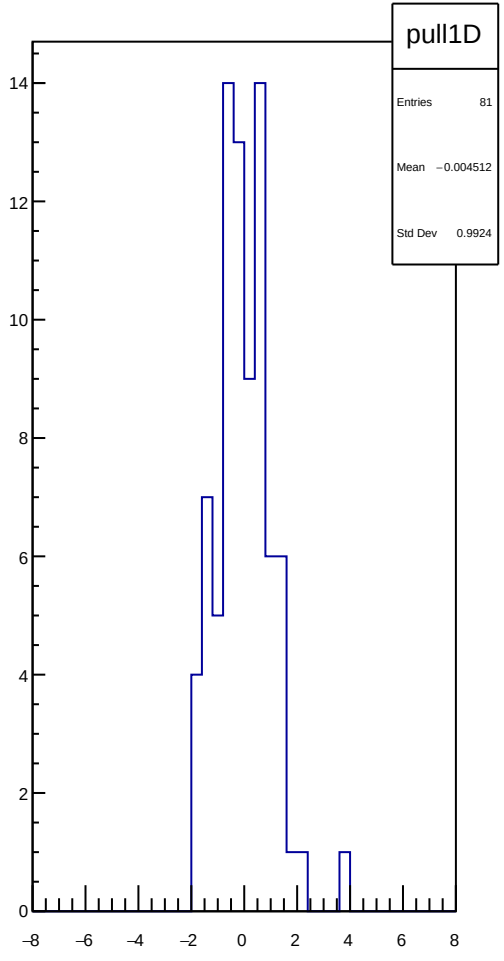

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1.267e+04 / 80
p0 2009 ± 1.597
2400
2300
2200
2100
2000
1900
1800
1700
1600

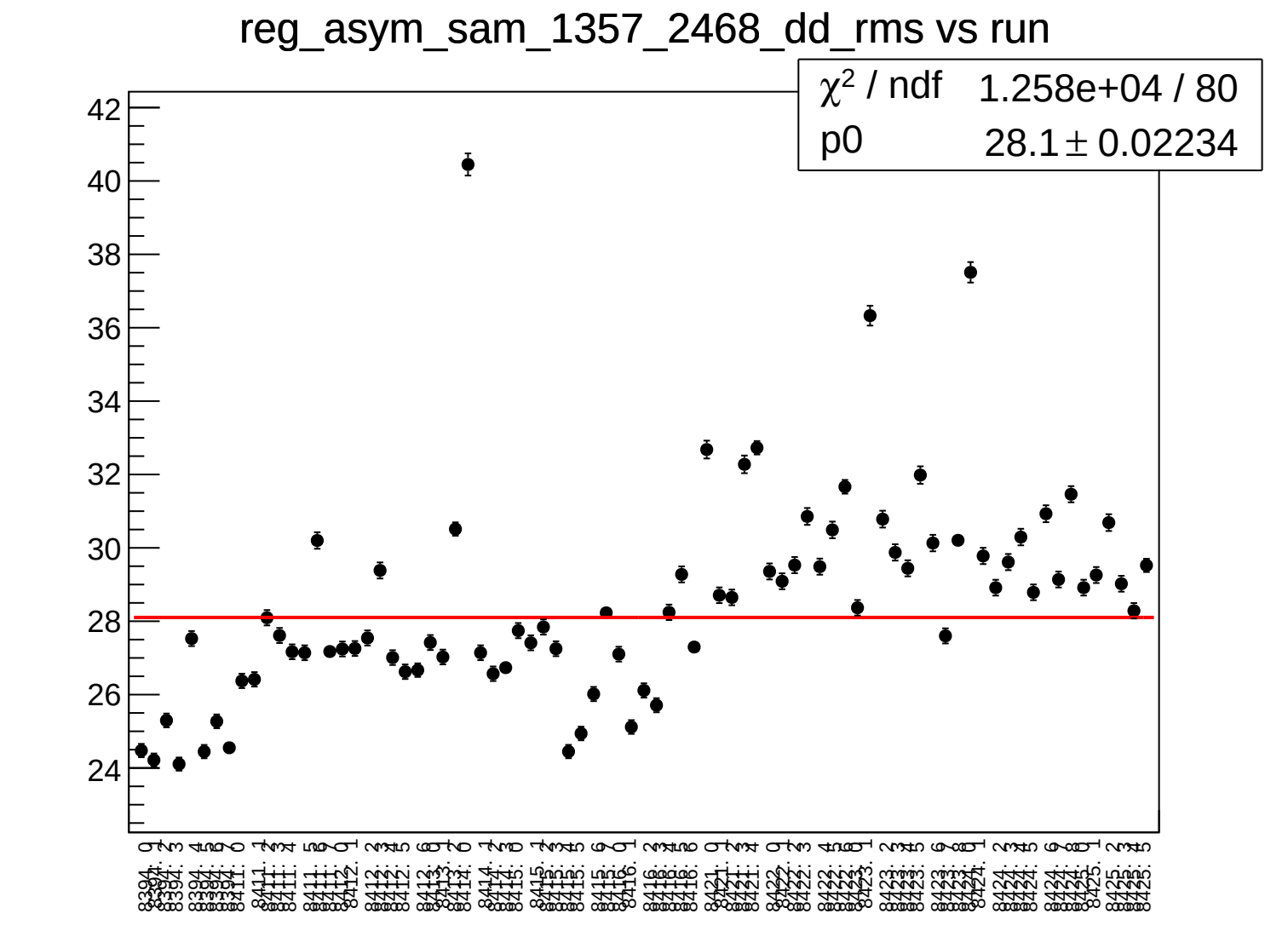

asym_sam_2468_avg_mean vs run
χ² / ndf 71.98 / 80
p0 1.036e+04 ± 2263
×10³
pull
Entries 81
Mean −1318
Std Dev 1355

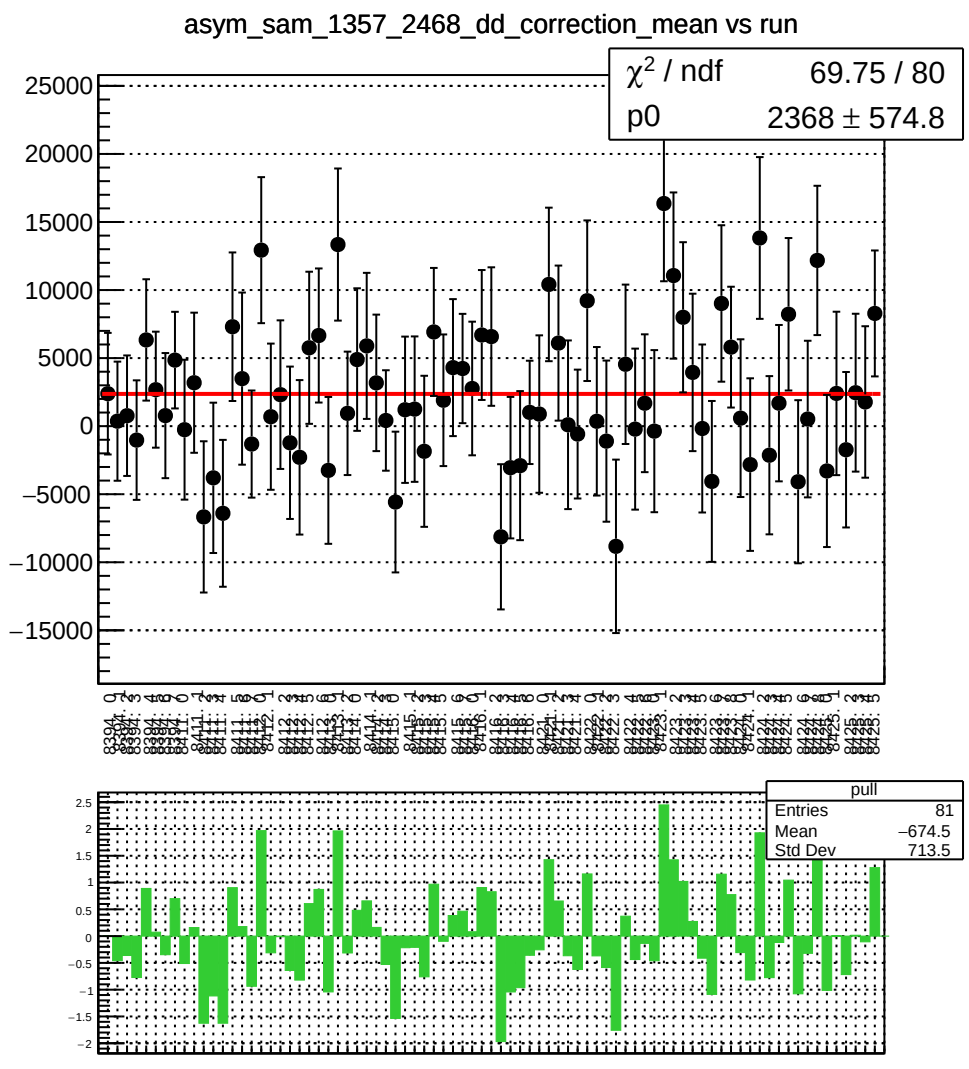

pull1D
Entries 81
Mean −0.0021
Std Dev 0.9427

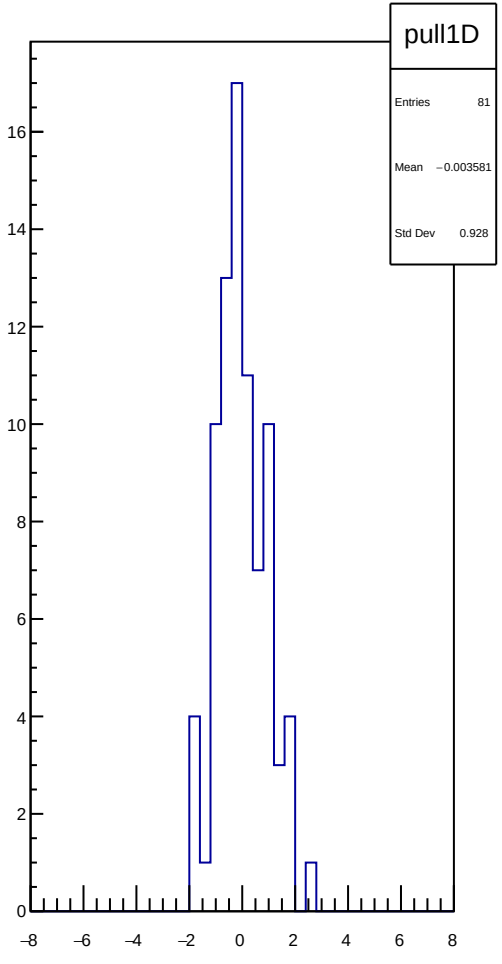

asym_sam_2468_avg_rms vs run
χ² / ndf 1.267e+04 / 80
p0 2013 ± 1.6
2400
2300
2200
2100
2000
1900
1800
1700
1600

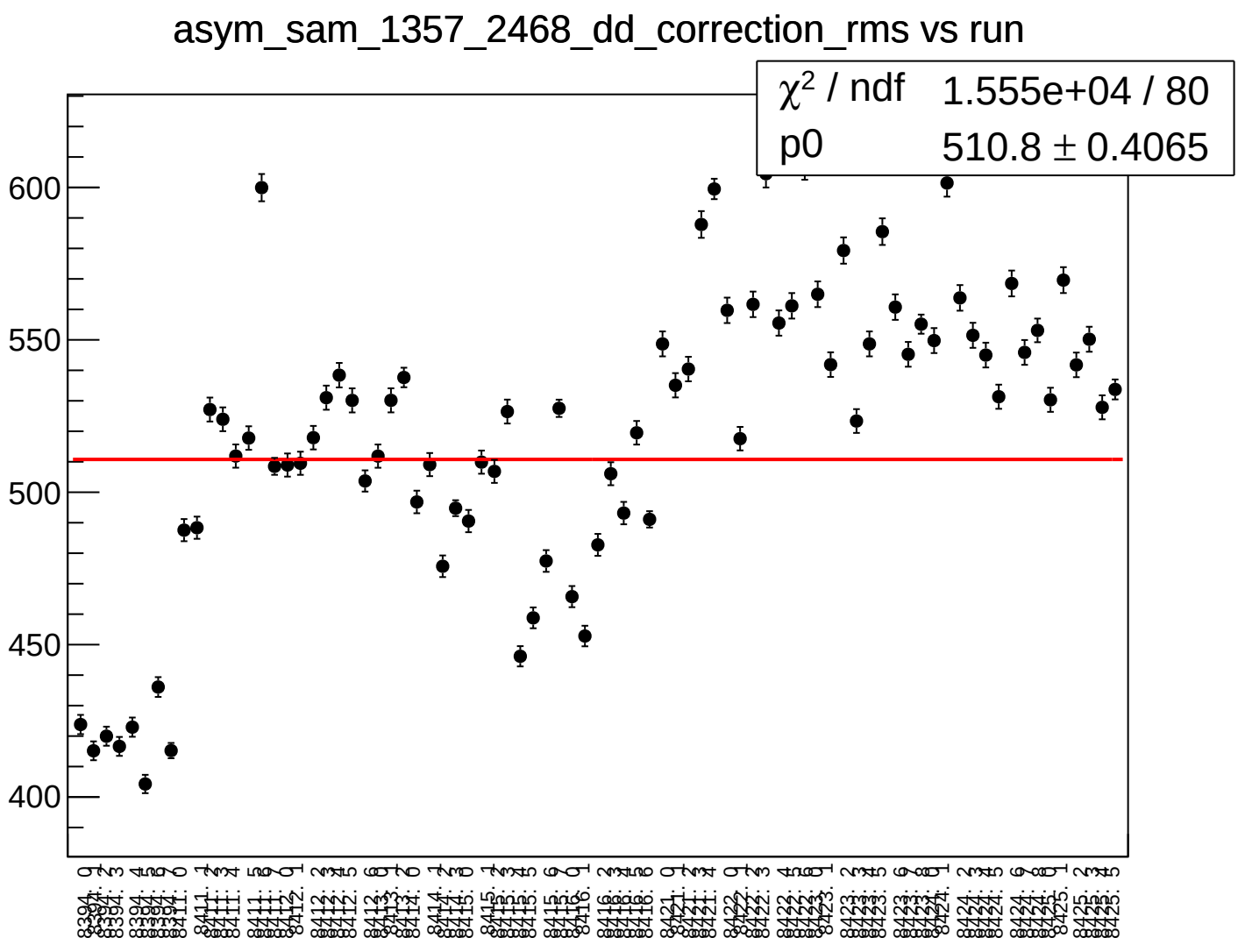

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 79.77 / 80
p0 −98.28 ± 31.6
1000
500
0
−500
−1000
pull
Entries 81
Mean 703.5
Std Dev 691.1
3
2
1
0
−1
−2

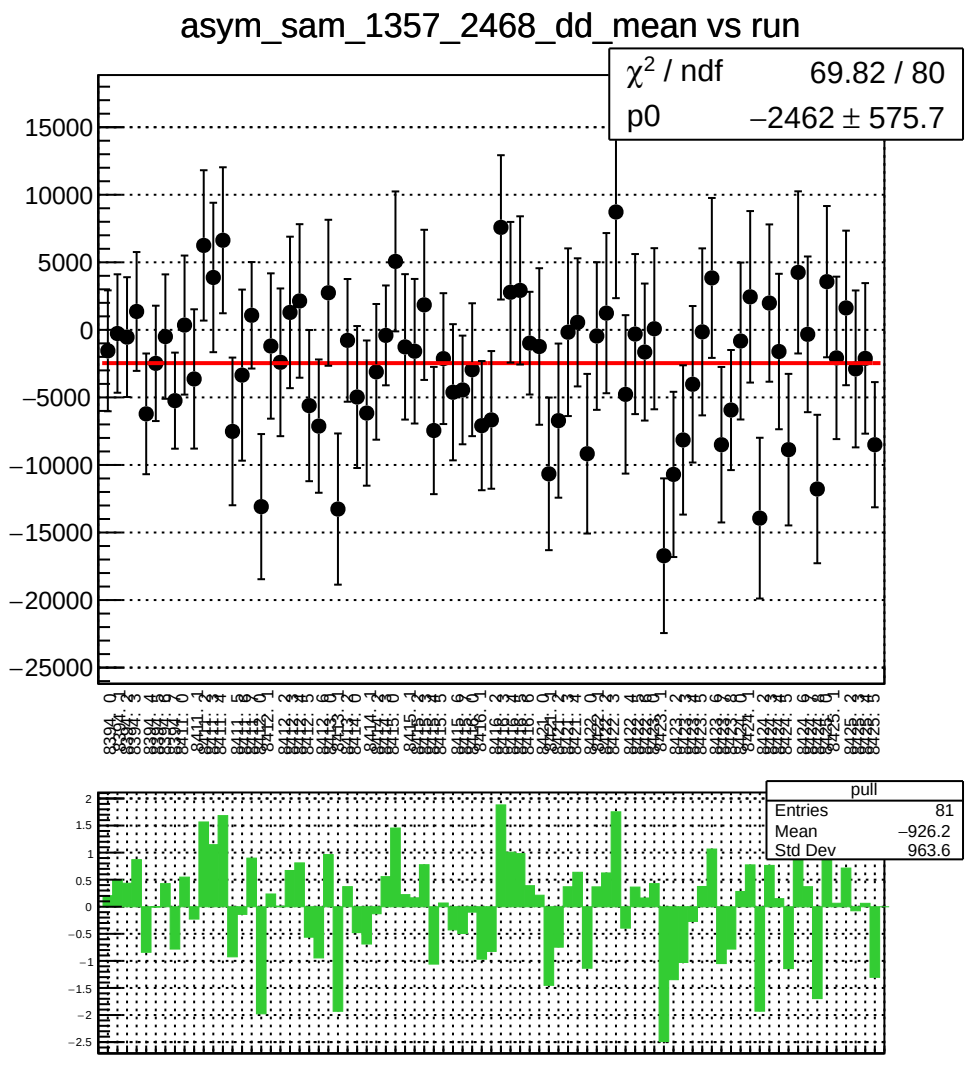

pull1D
Entries 81
Mean −0.004512
Std Dev 0.9924
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

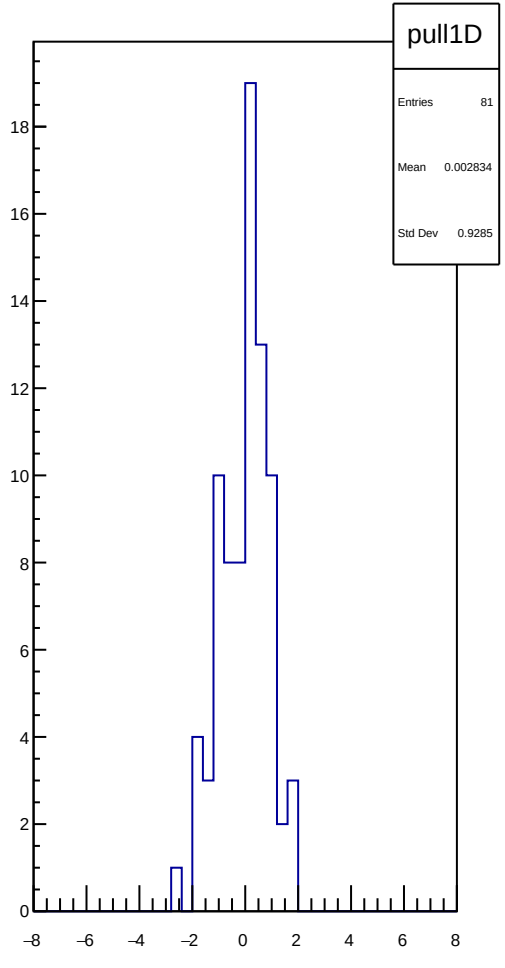

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.258e+04 / 80
p0 28.1 ± 0.02234
42
40
38
36
34
32
30
28
26
24

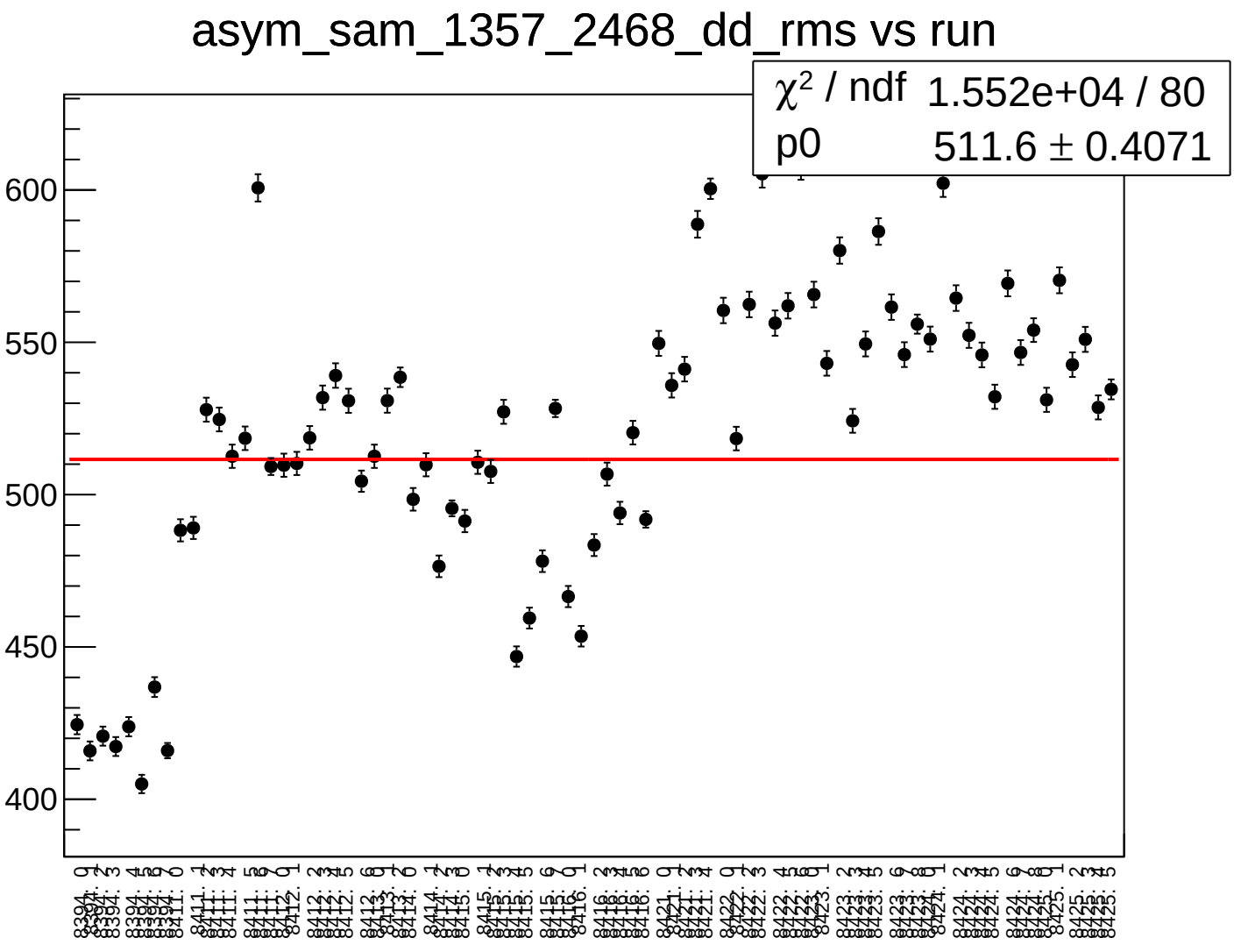

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 69.75 / 80
p0 2368 ± 574.8
pull
Entries 81
Mean −674.5
Std Dev 713.5

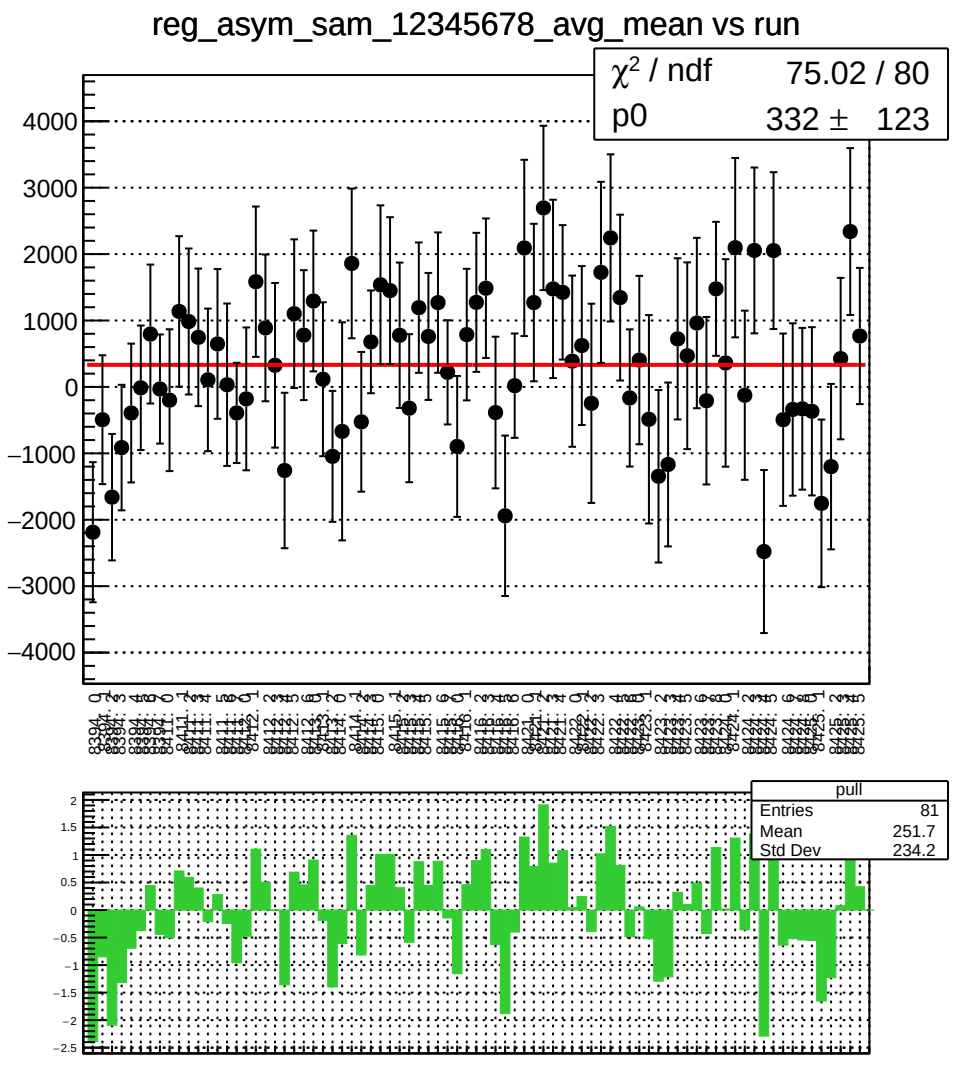

pull1D
Entries 81
Mean −0.003581
Std Dev 0.928

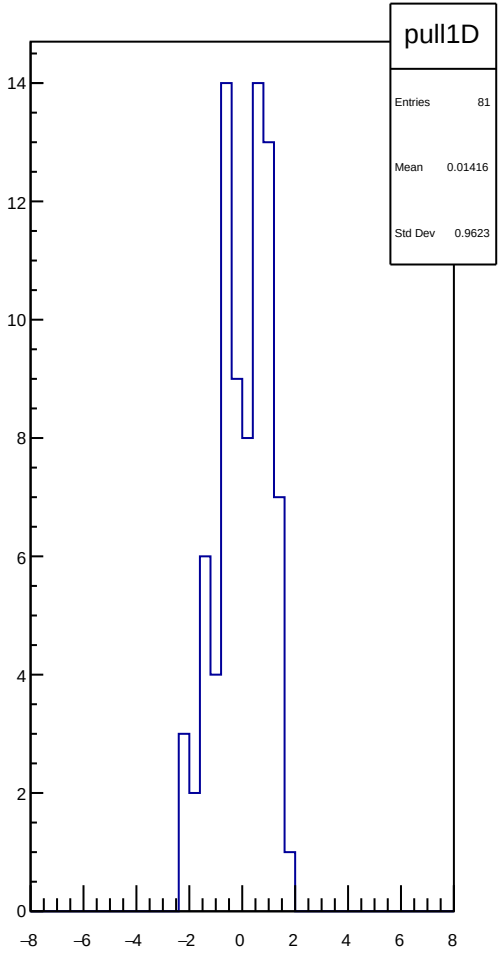

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1.555e+04 / 80
p0 510.8 ± 0.4065
600
550
500
450
400

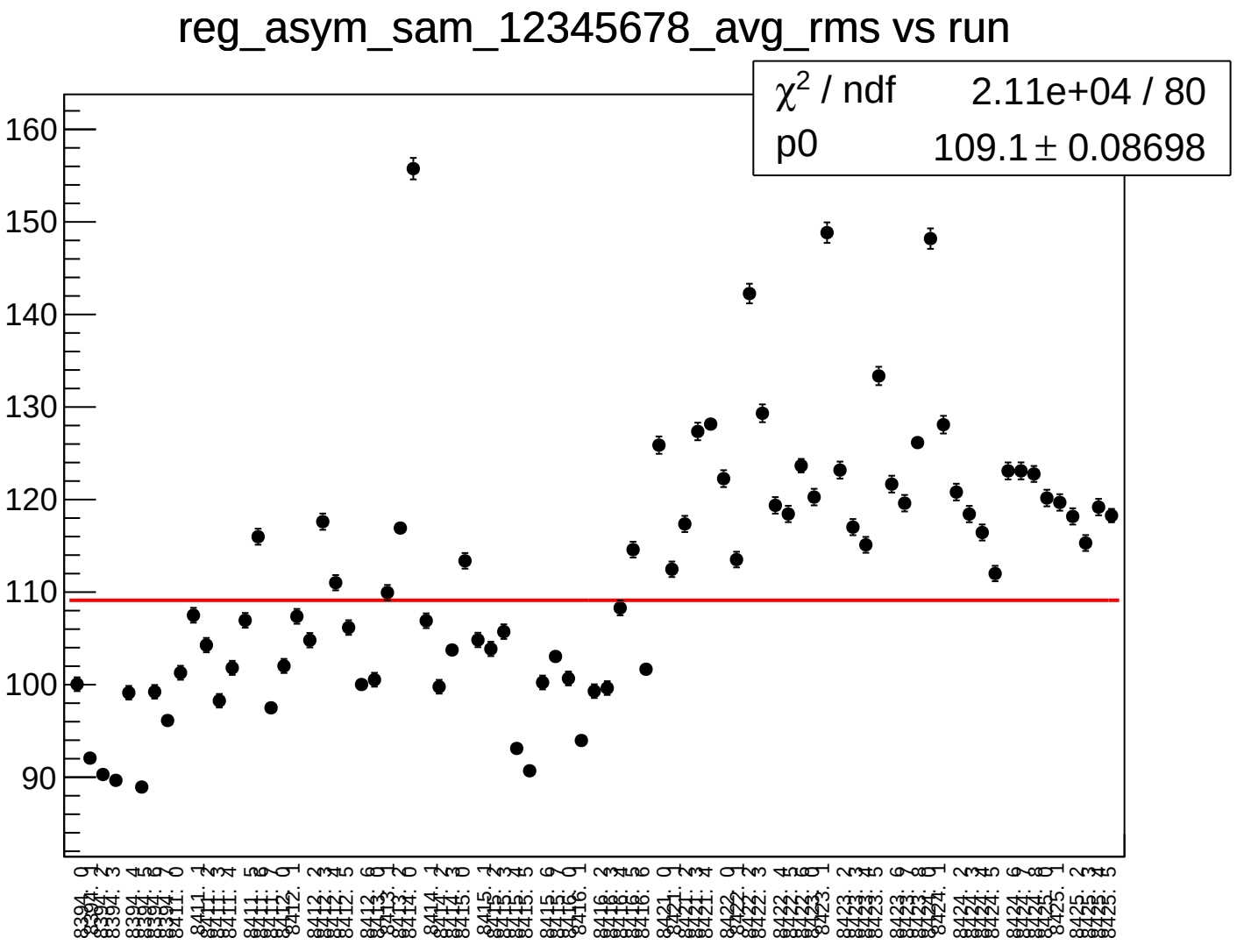

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 69.82 / 80
p0 −2462 ± 575.7
pull
Entries 81
Mean −926.2
Std Dev 963.6

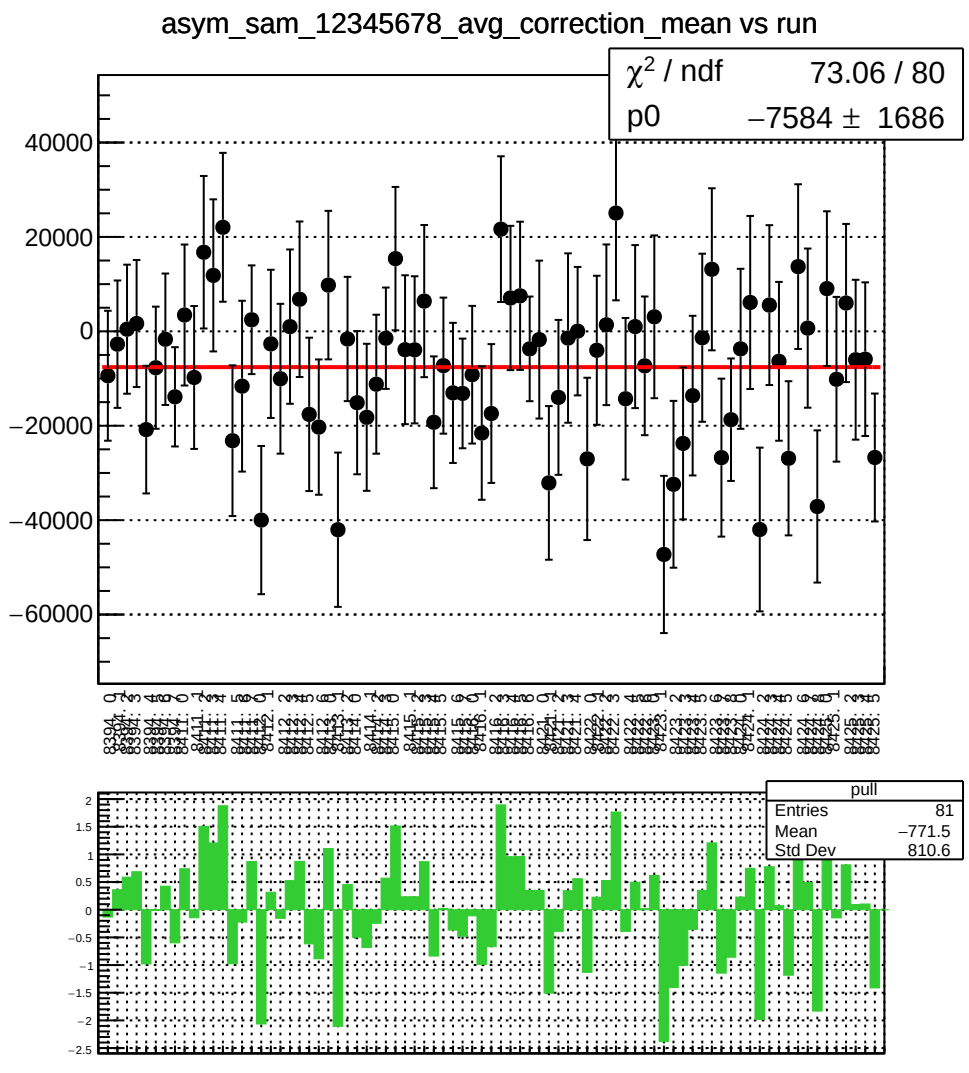

pull1D
Entries 81
Mean 0.002834
Std Dev 0.9285

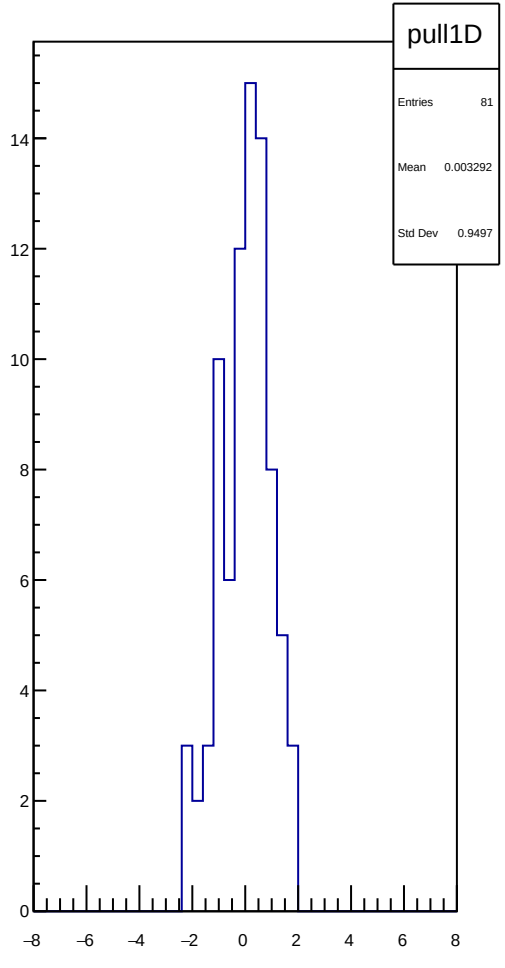

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.552e+04 / 80
p0 511.6 ± 0.4071
600
550
500
450
400

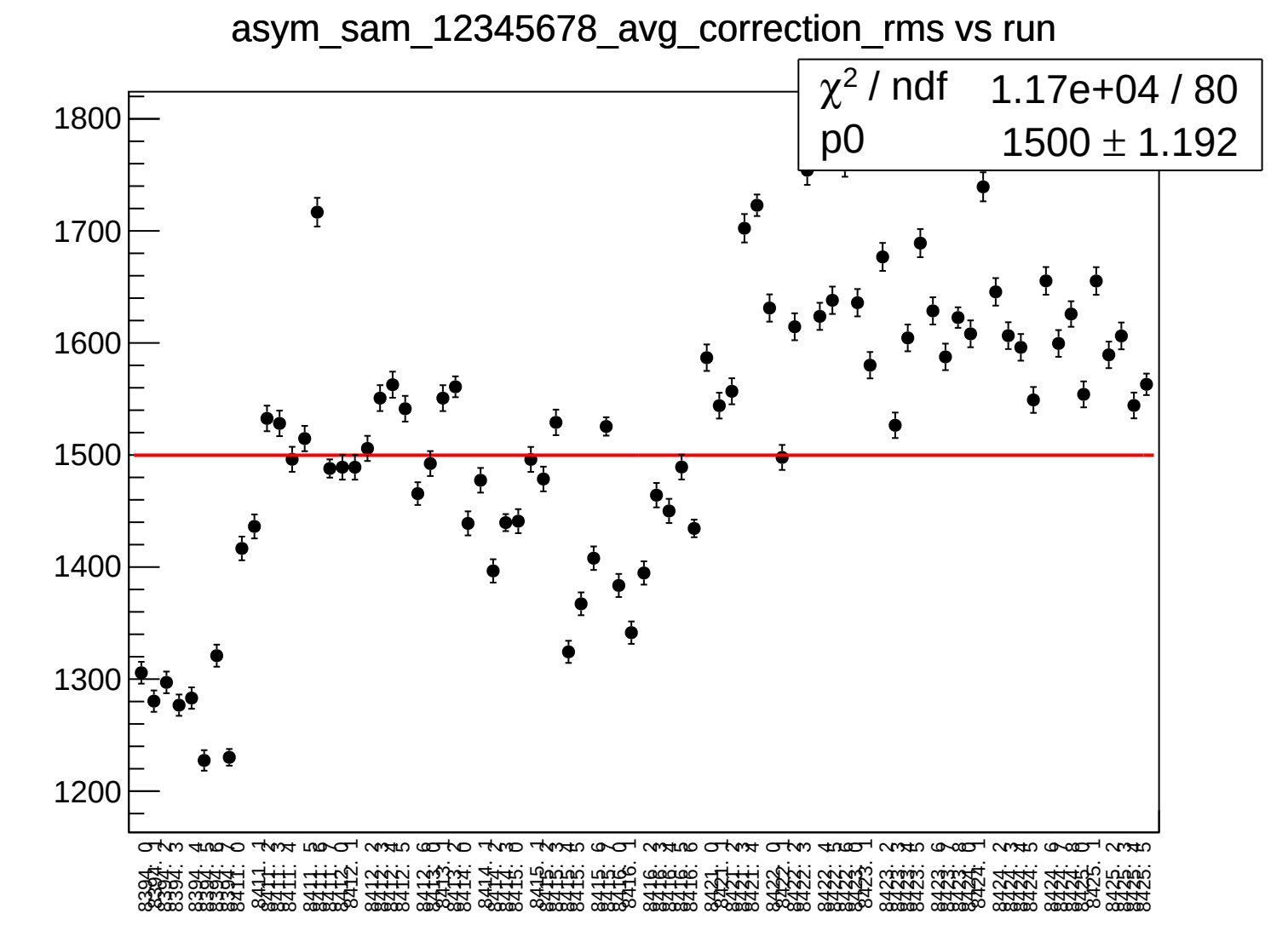

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 75.02 / 80
p0 332 ± 123
pull
Entries 81
Mean 251.7
Std Dev 234.2

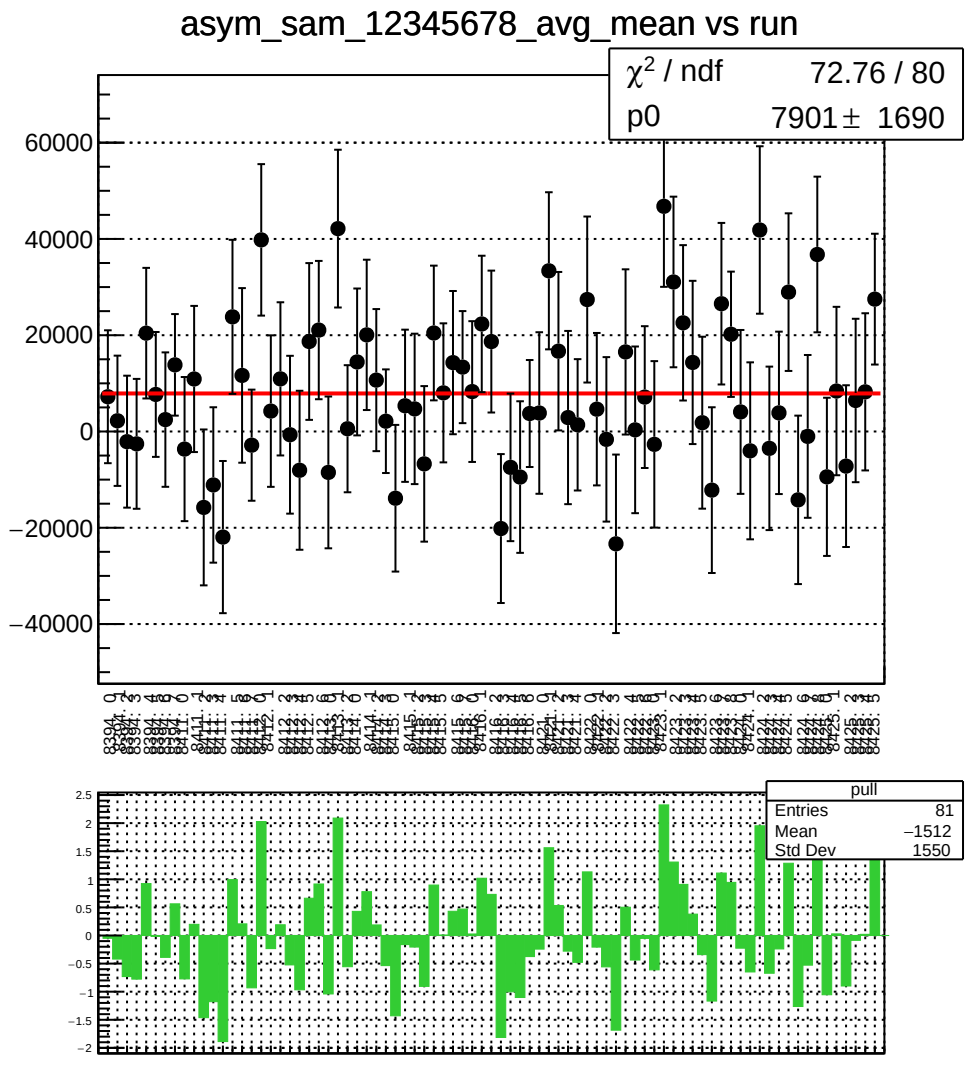

pull1D
Entries 81
Mean 0.01416
Std Dev 0.9623

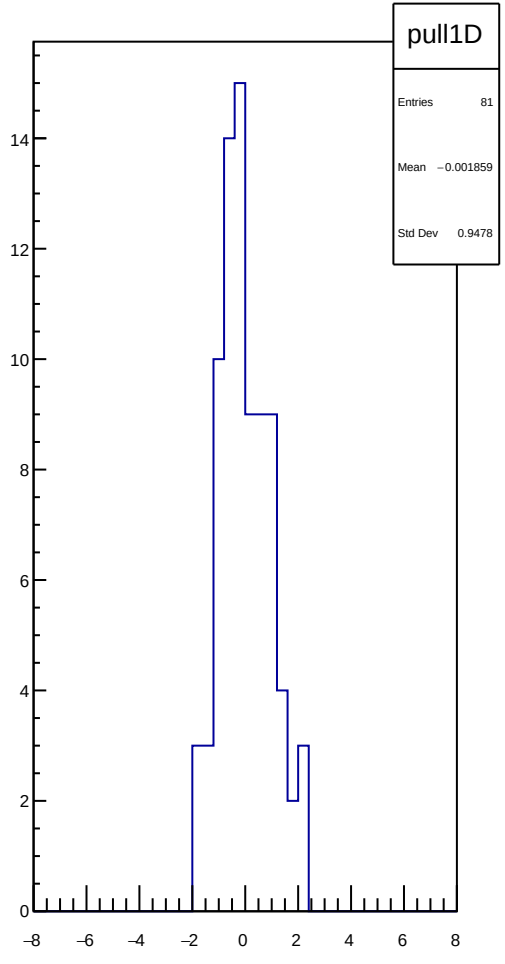

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 2.11e+04 / 80
p0 109.1 ± 0.08698
160
150
140
130
120
110
100
90

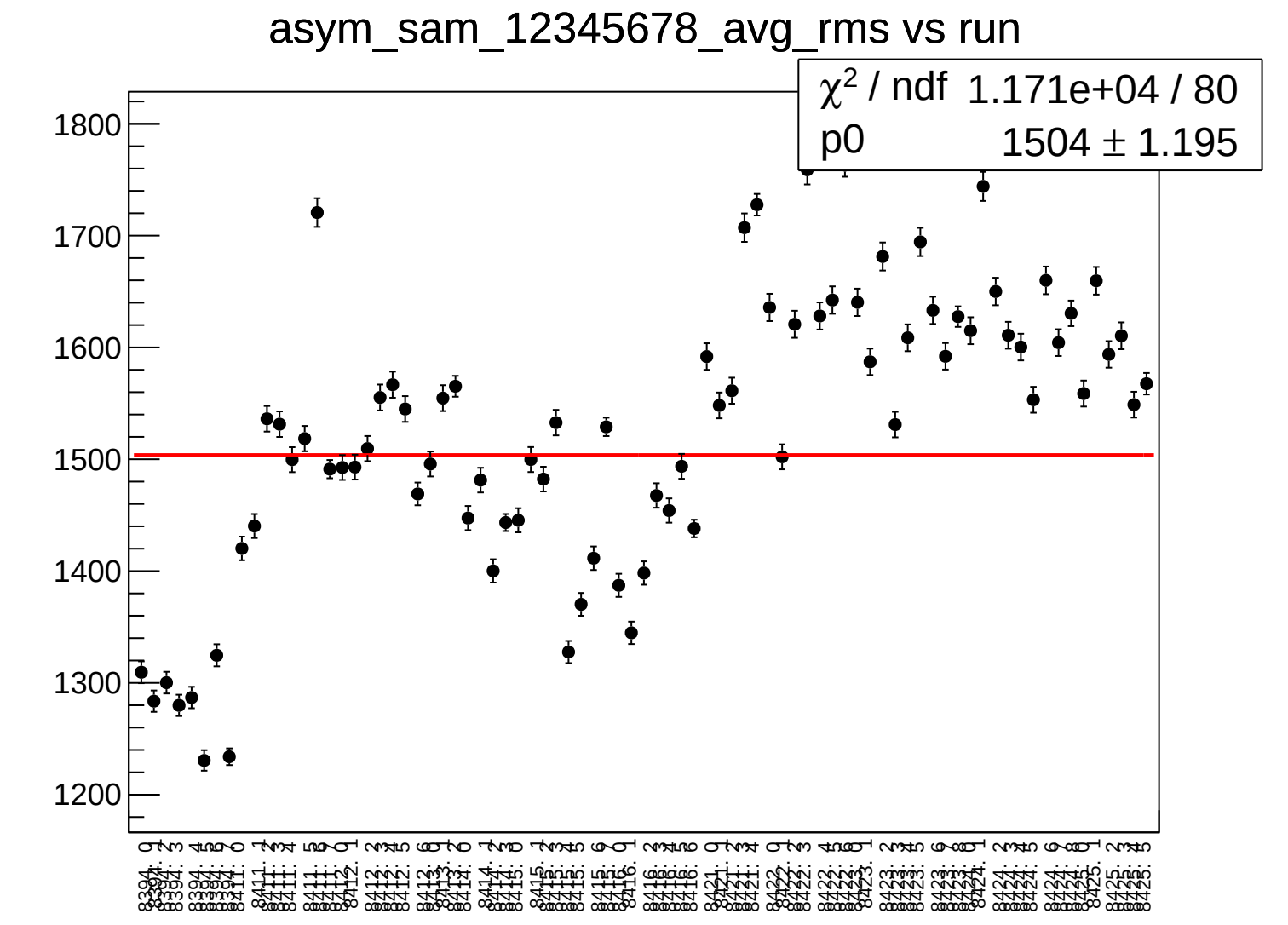

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 73.06 / 80
p0 −7584 ± 1686
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −771.5
Std Dev 810.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

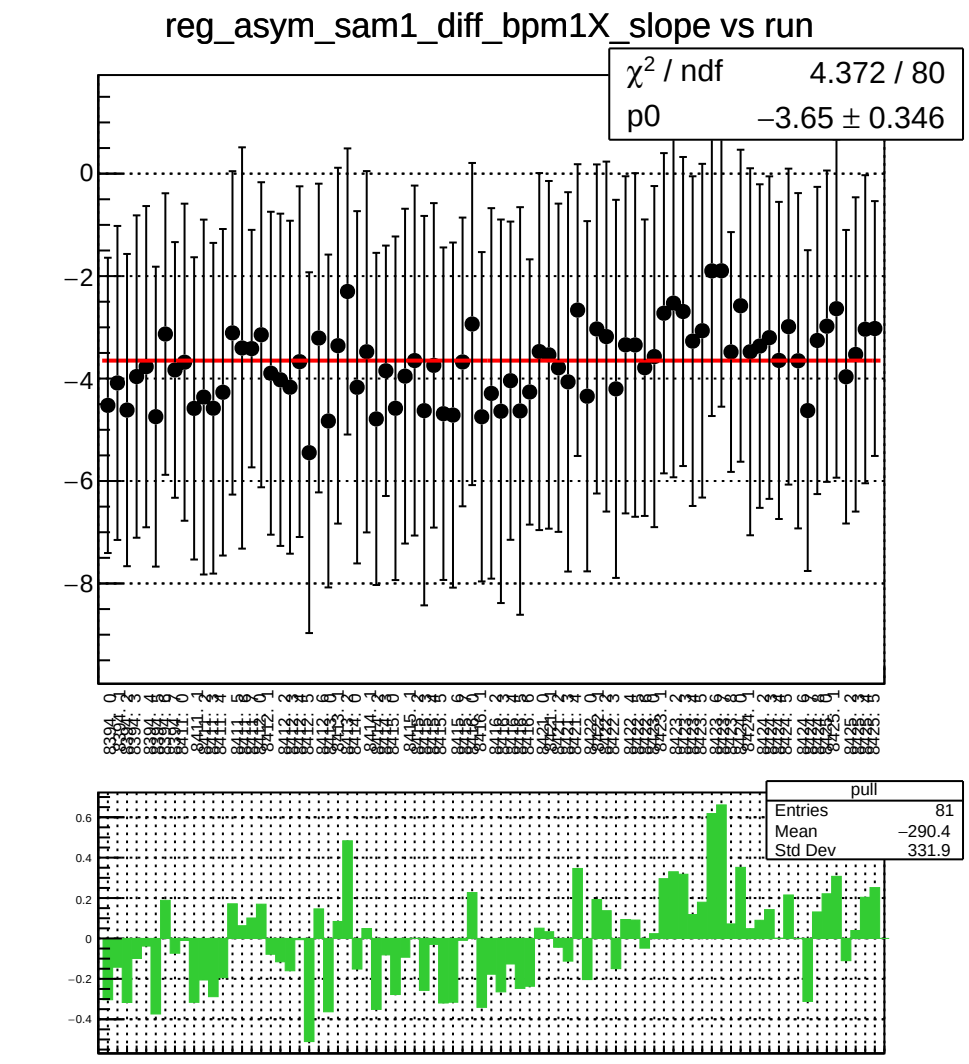

pull1D
Entries 81
Mean 0.003292
Std Dev 0.9497
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

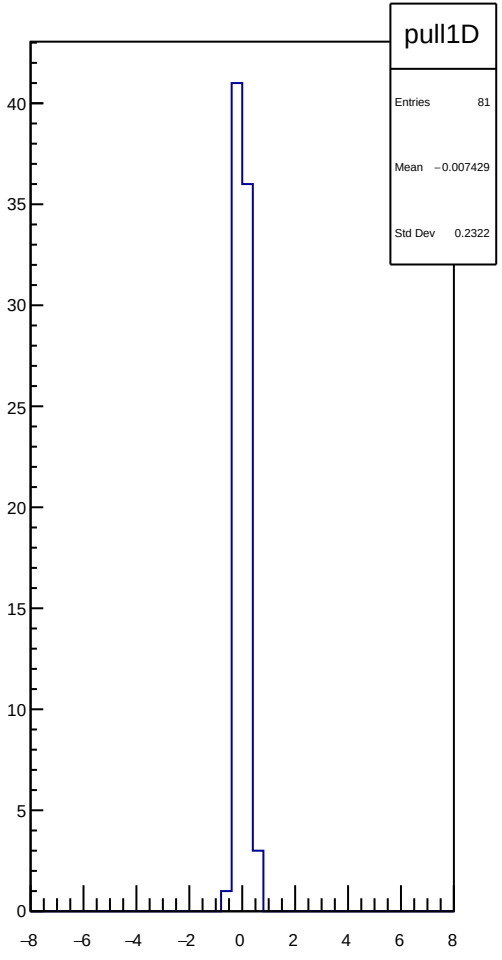

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 1.17e+04 / 80
p0 1500 ± 1.192
1800
1700
1600
1500
1400
1300
1200

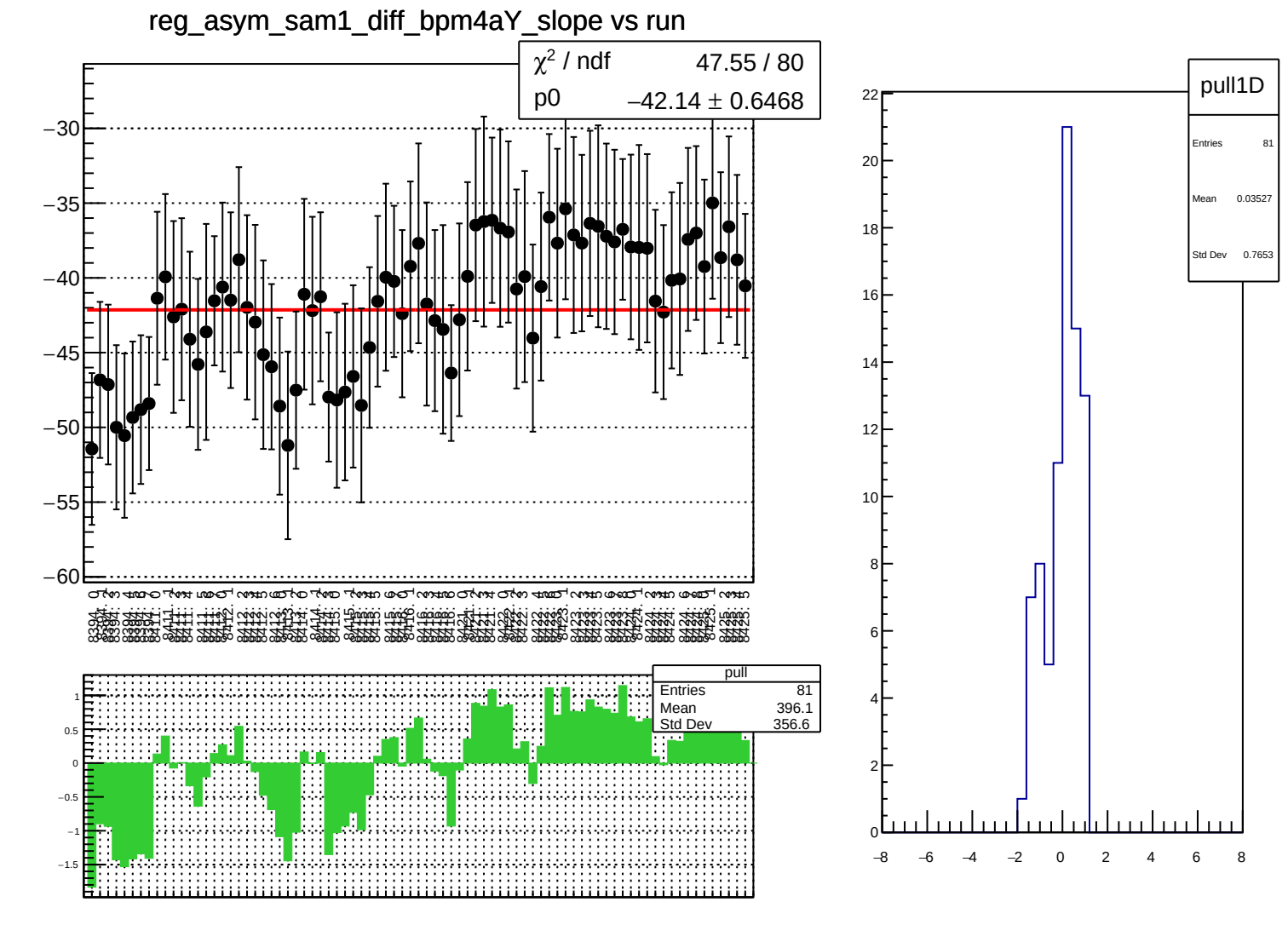

asym_sam_12345678_avg_mean vs run
χ² / ndf 72.76 / 80
p0 7901 ± 1690
pull
Entries 81
Mean −1512
Std Dev 1550

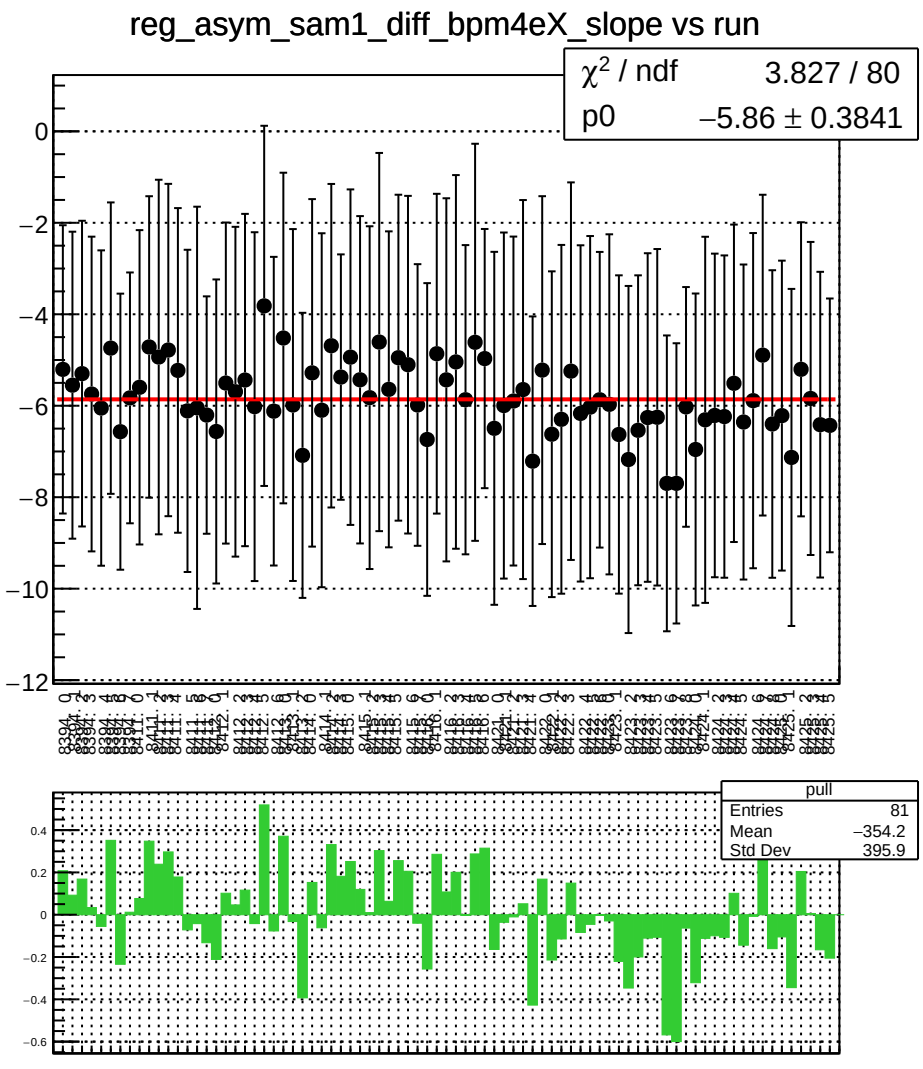

pull1D
Entries 81
Mean −0.001859
Std Dev 0.9478

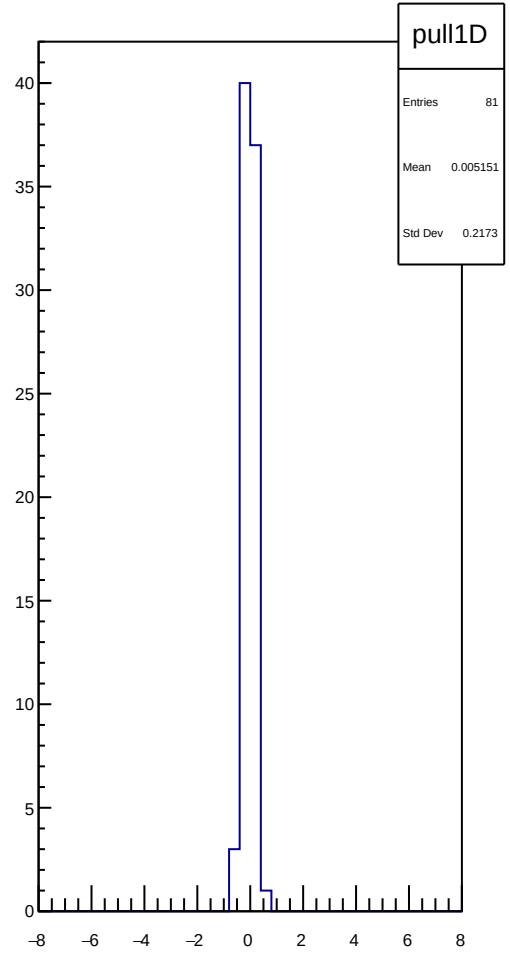

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.171e+04 / 80
p0 1504 ± 1.195
1800
1700
1600
1500
1400
1300
1200

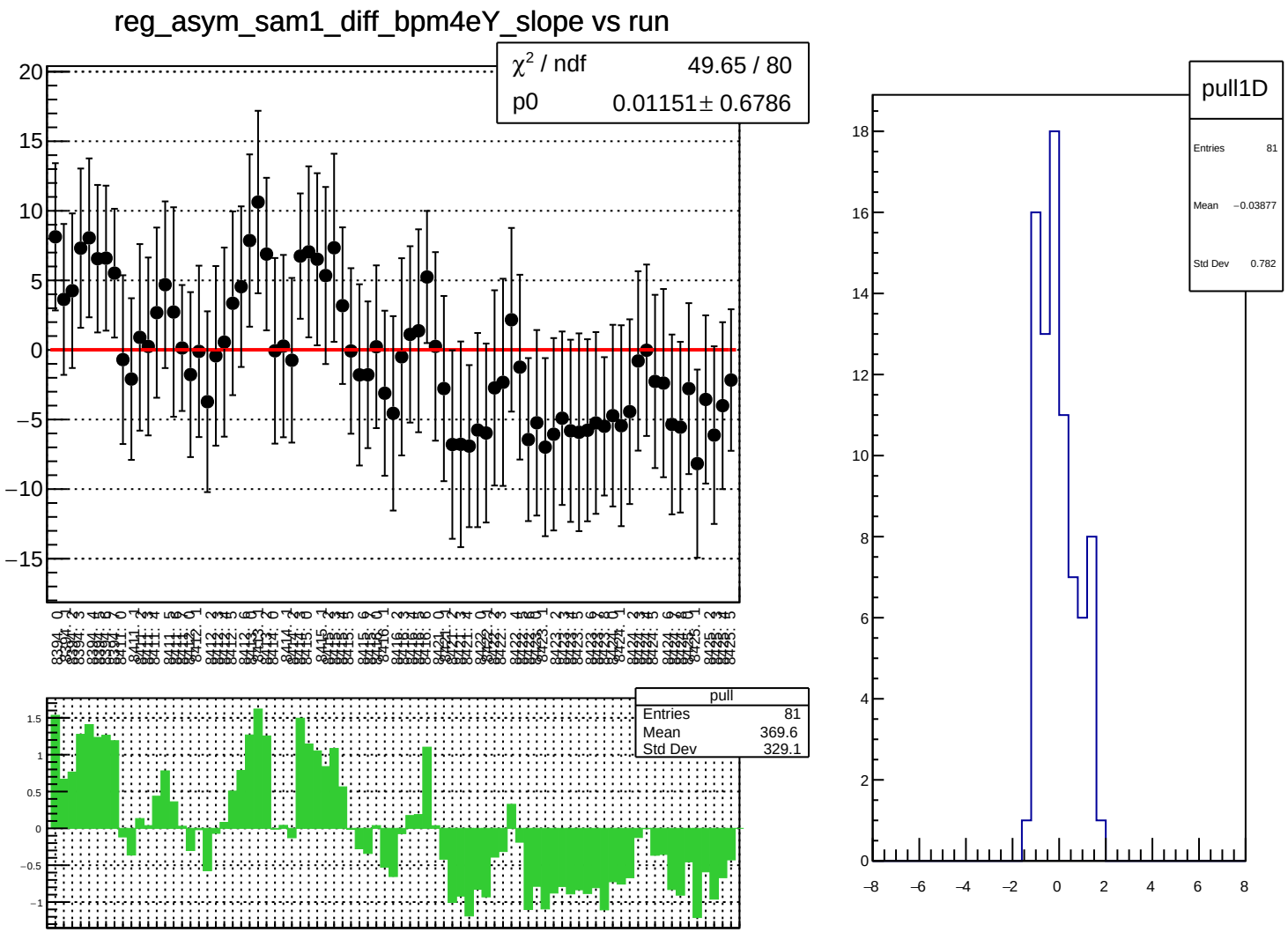

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 4.372 / 80
p0 −3.65 ± 0.346
pull
Entries 81
Mean −290.4
Std Dev 331.9

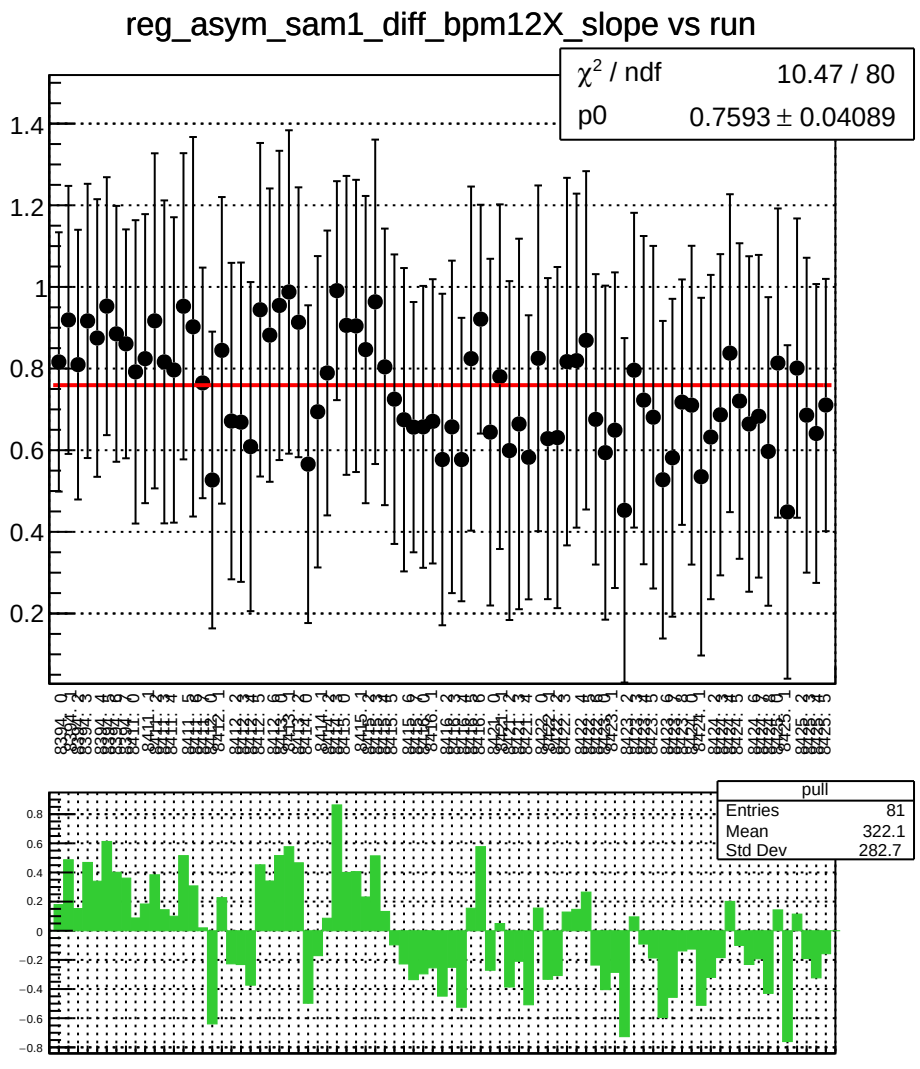

pull1D
Entries 81
Mean −0.007429
Std Dev 0.2322

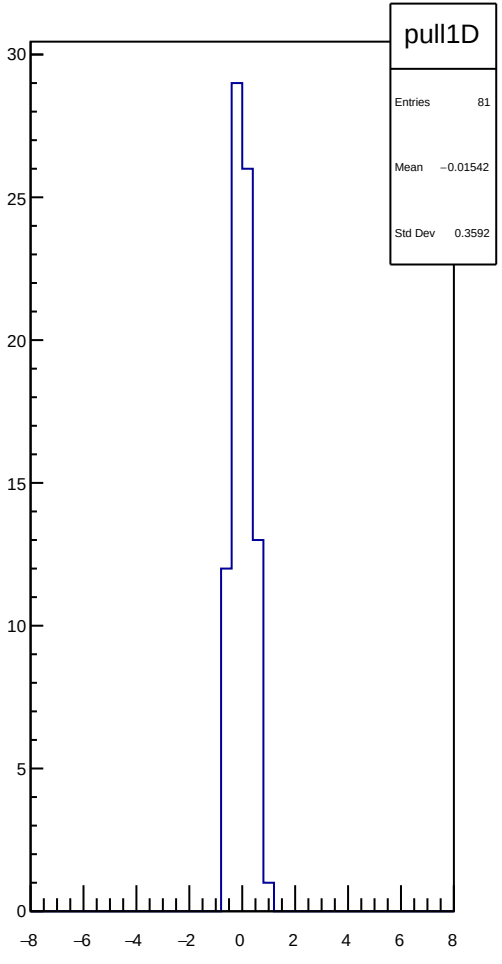

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 47.55 / 80
p0 −42.14 ± 0.6468
pull
Entries 81
Mean 396.1
Std Dev 356.6
pull1D
Entries 81
Mean 0.03527
Std Dev 0.7653

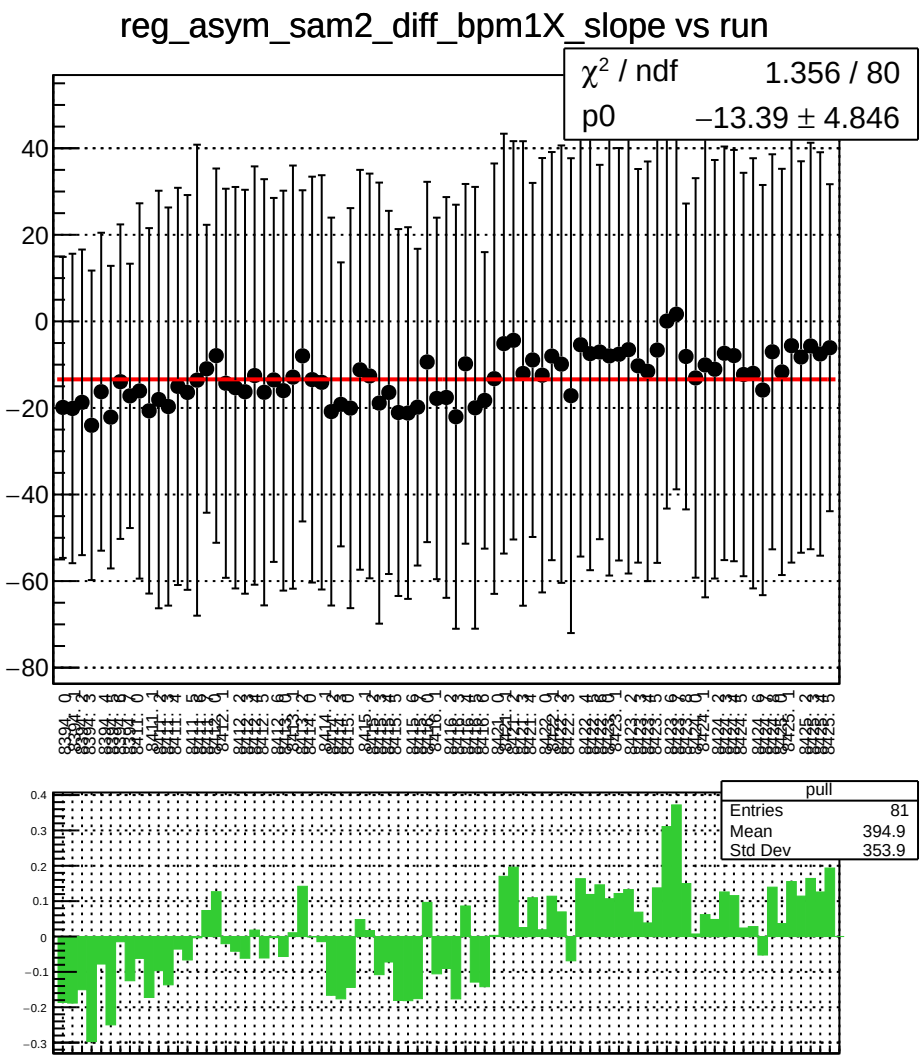

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 3.827 / 80
p0 −5.86 ± 0.3841
pull
Entries 81
Mean −354.2
Std Dev 395.9

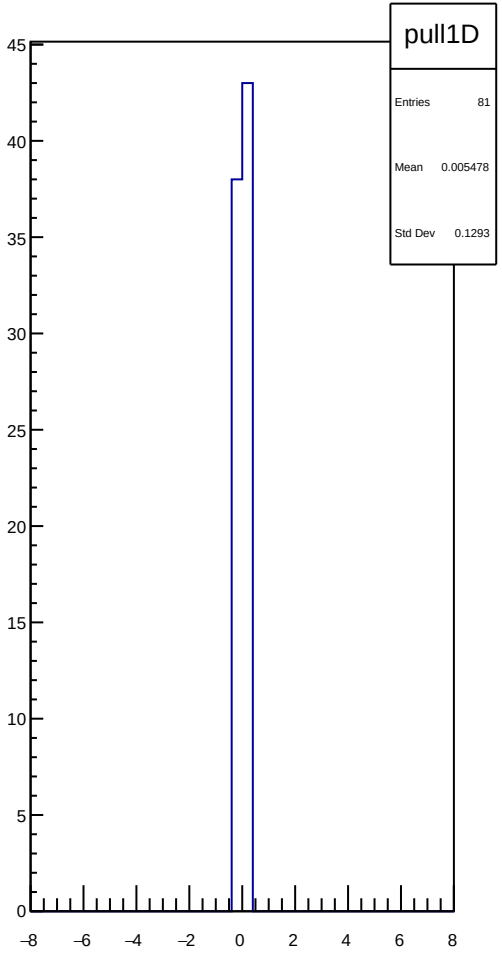

pull1D
Entries 81
Mean 0.005151
Std Dev 0.2173

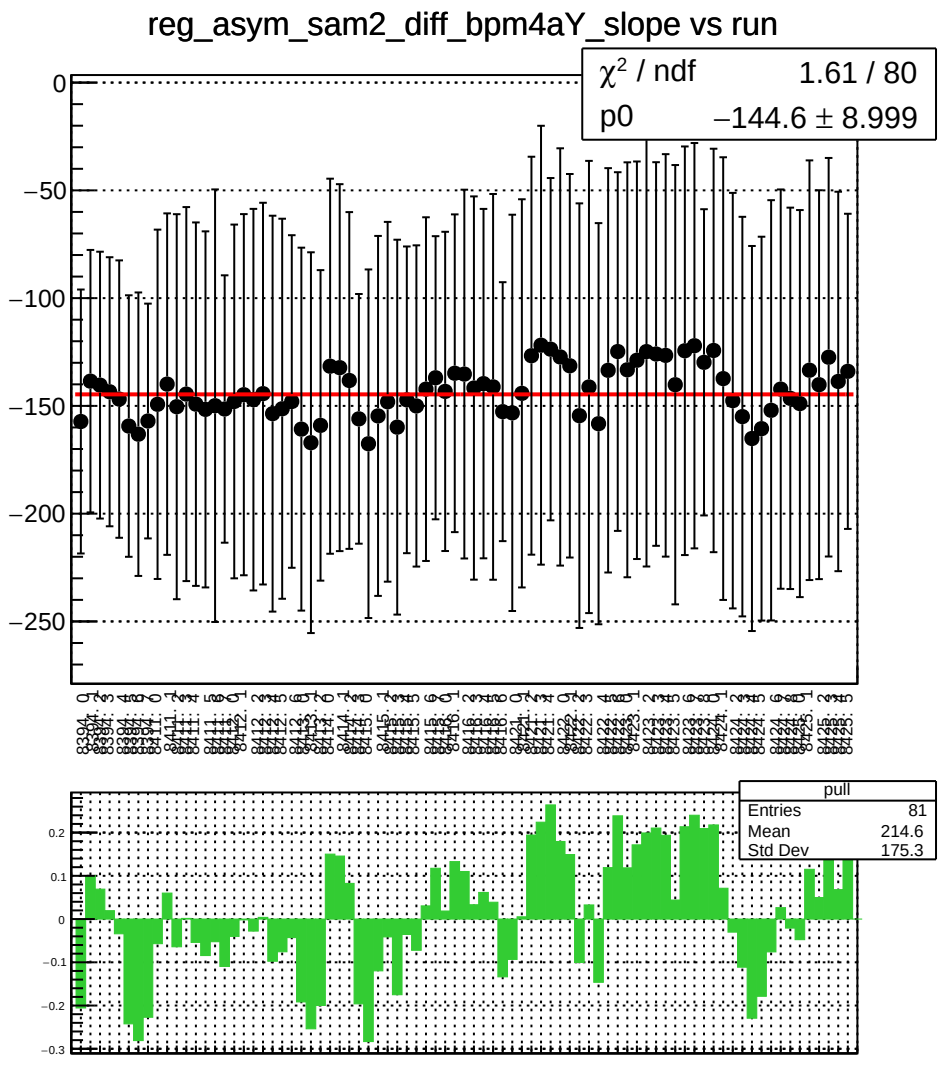

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 49.65 / 80
p0 0.01151 ± 0.6786
pull
Entries 81
Mean 369.6
Std Dev 329.1
pull1D
Entries 81
Mean −0.03877
Std Dev 0.782

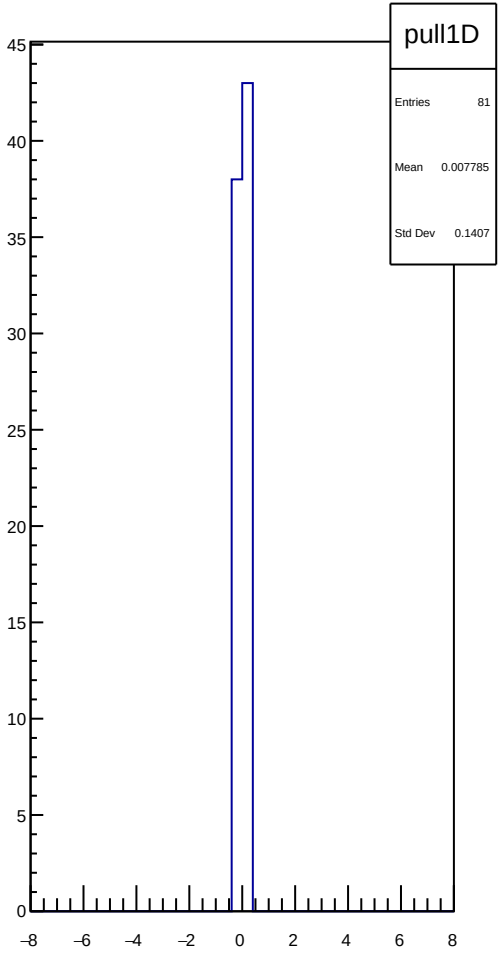

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 10.47 / 80
p0 0.7593 ± 0.04089
pull
Entries 81
Mean 322.1
Std Dev 282.7

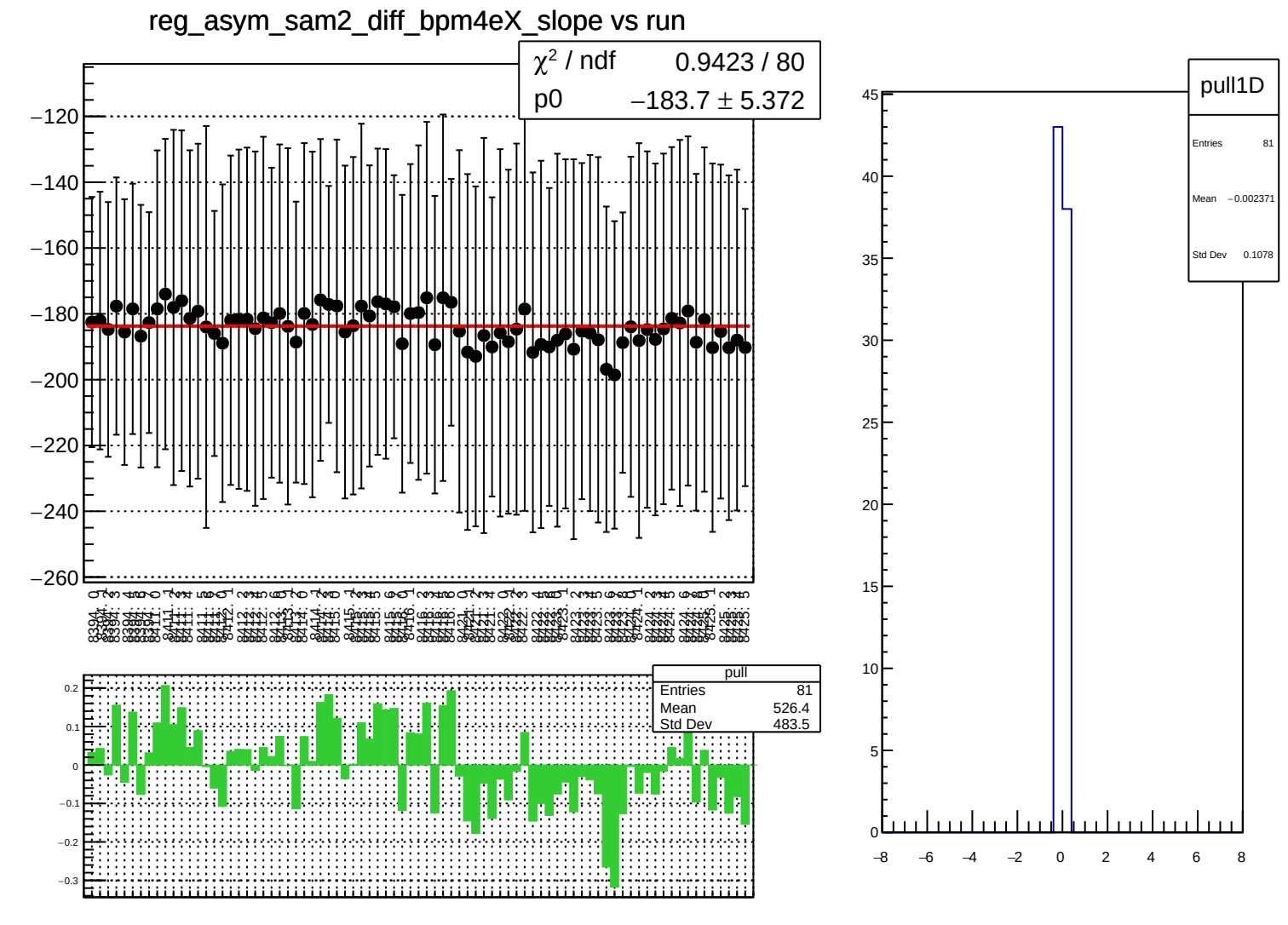

pull1D
Entries 81
Mean −0.01542
Std Dev 0.3592

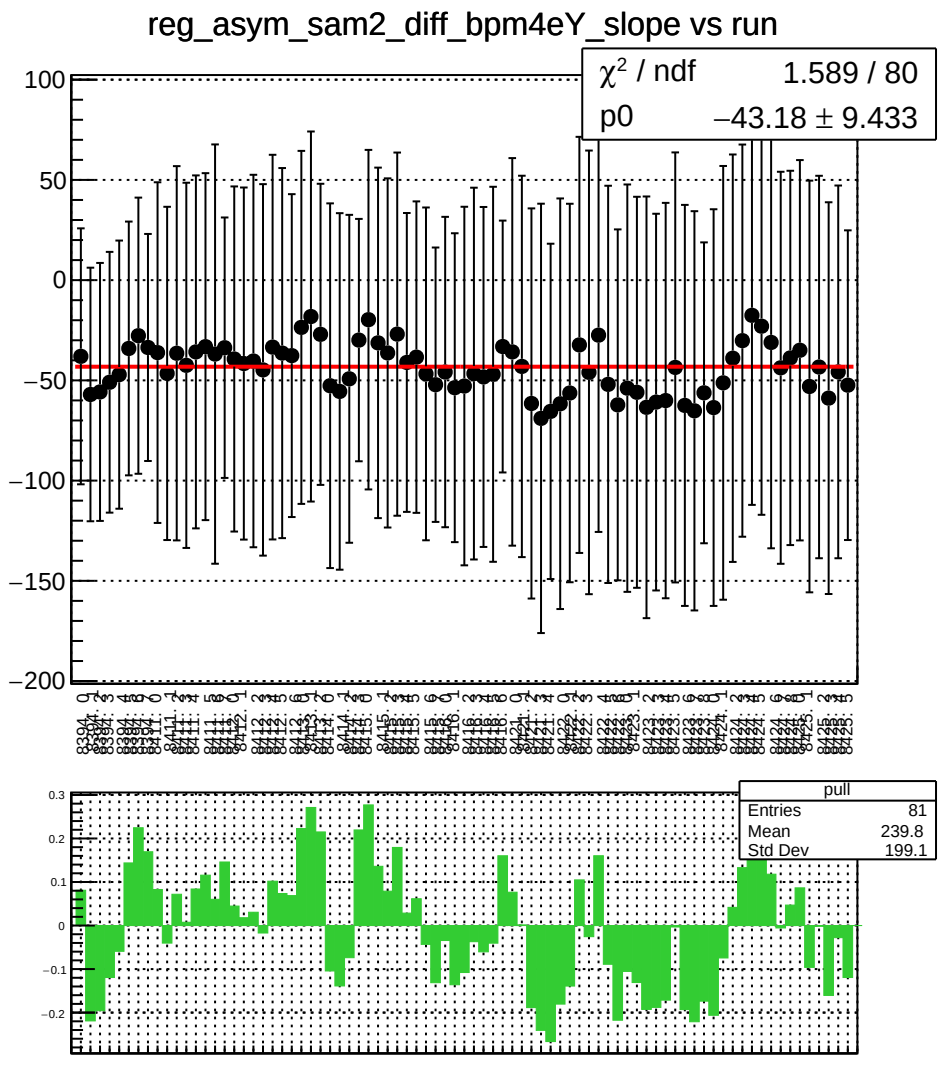

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 1.356 / 80
p0 −13.39 ± 4.846
pull
Entries 81
Mean 394.9
Std Dev 353.9

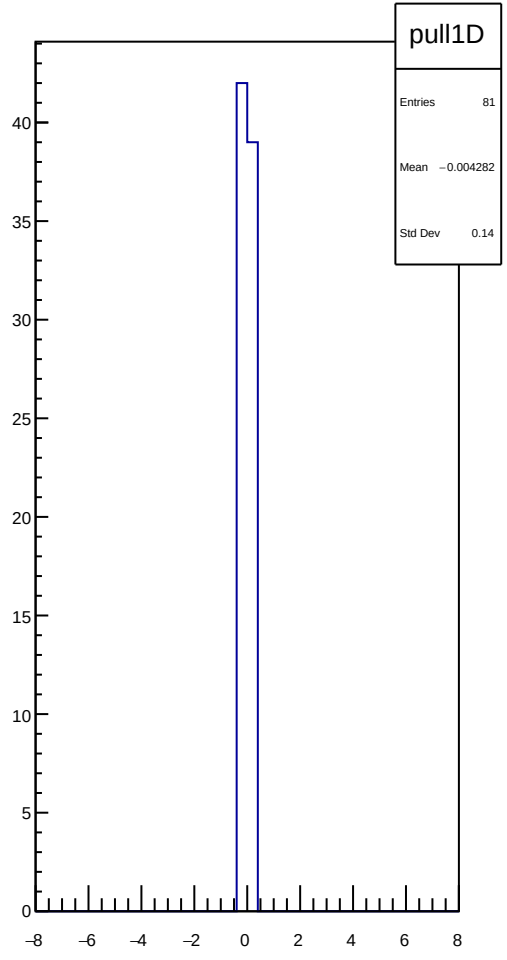

pull1D
Entries 81
Mean 0.005478
Std Dev 0.1293

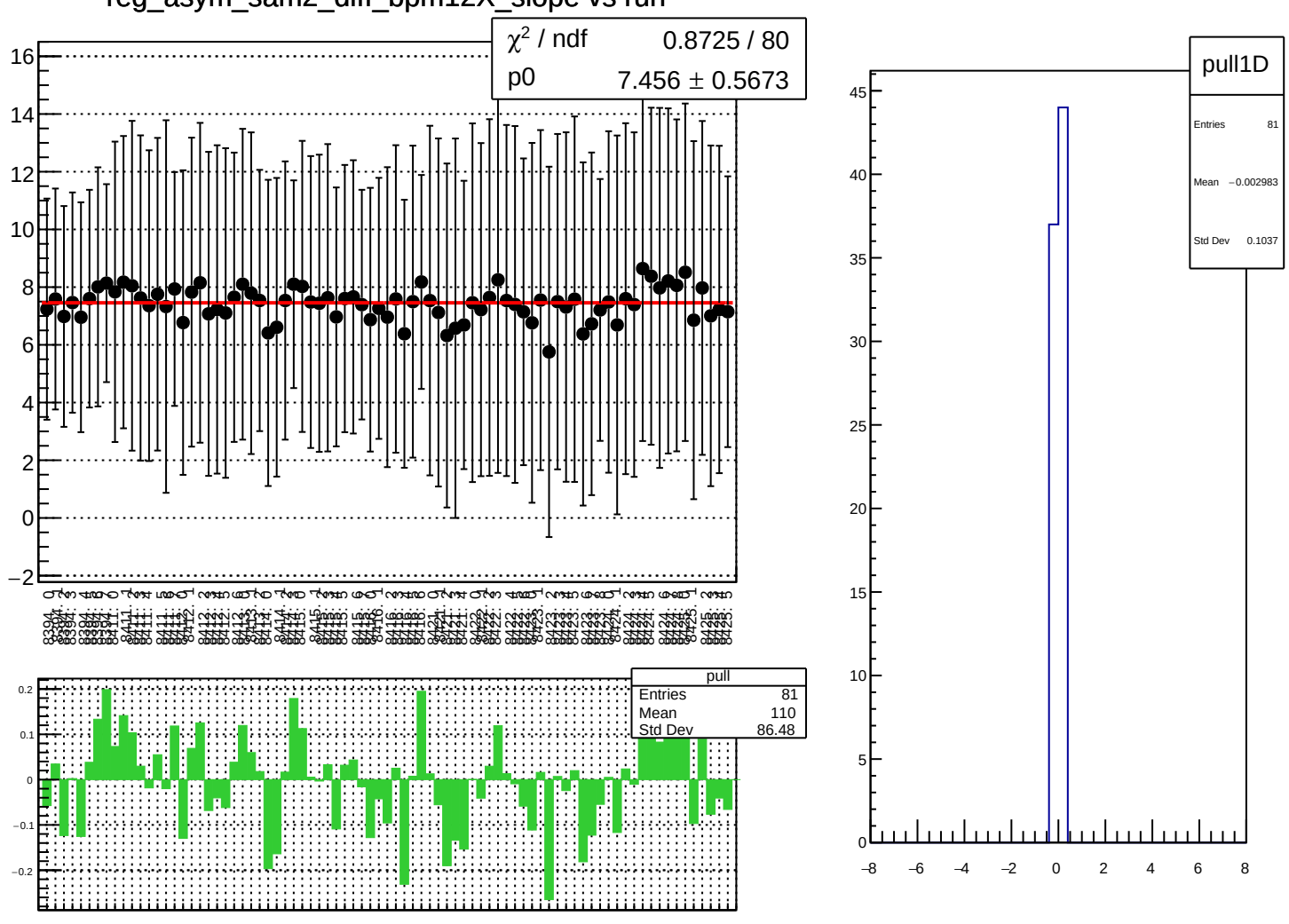

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1.61 / 80
p0 −144.6 ± 8.999
pull
Entries 81
Mean 214.6
Std Dev 175.3

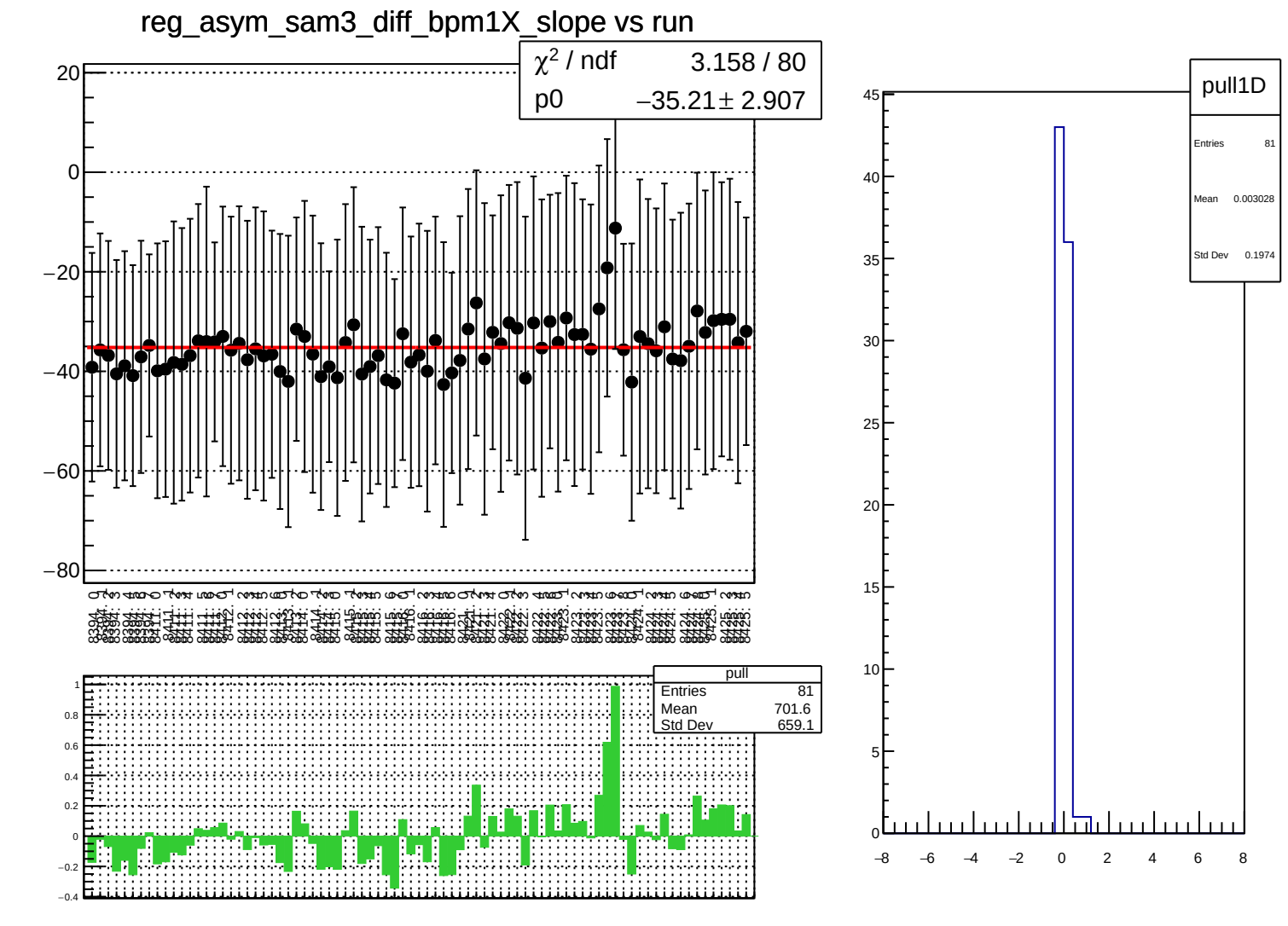

pull1D
Entries 81
Mean 0.007785
Std Dev 0.1407

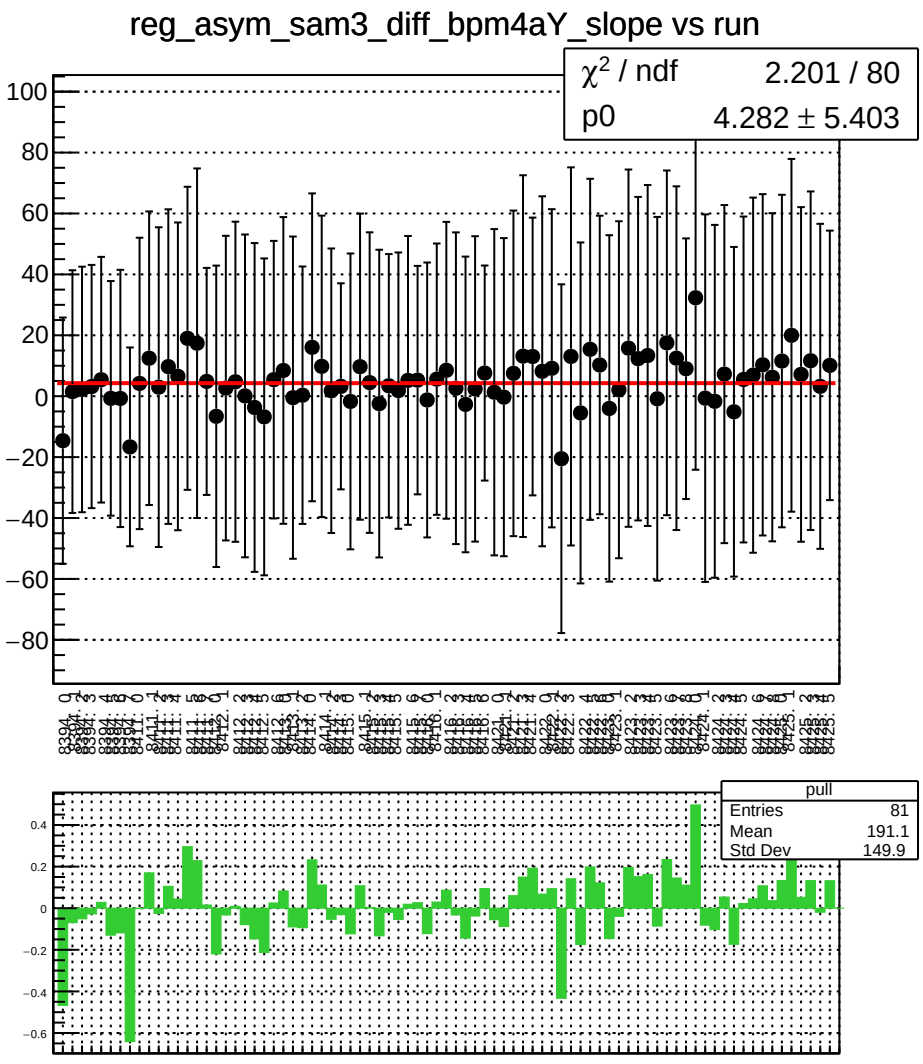

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.9423 / 80
p0 −183.7 ± 5.372
pull
Entries 81
Mean 526.4
Std Dev 483.5
pull1D
Entries 81
Mean −0.002371
Std Dev 0.1078

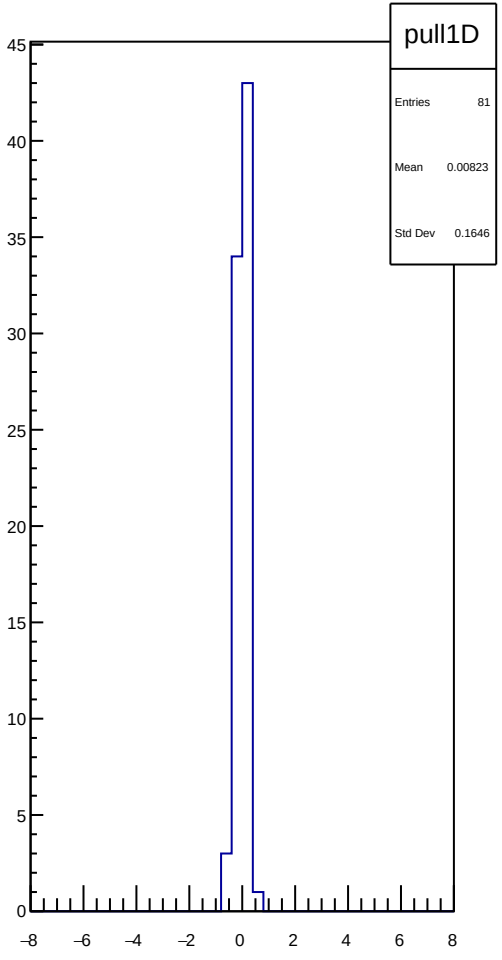

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1.589 / 80
p0 −43.18 ± 9.433
pull
Entries 81
Mean 239.8
Std Dev 199.1

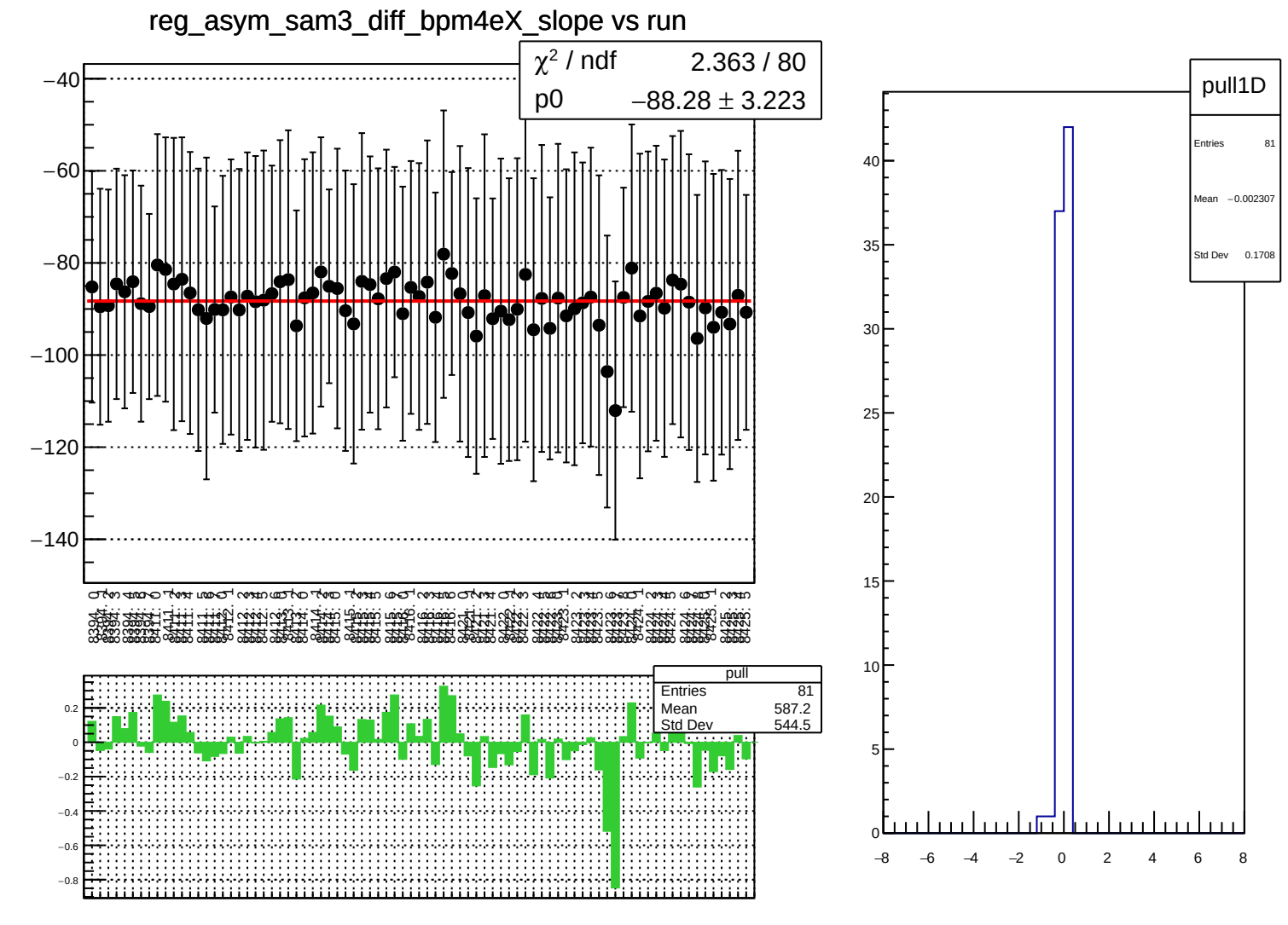

pull1D
Entries 81
Mean −0.004282
Std Dev 0.14

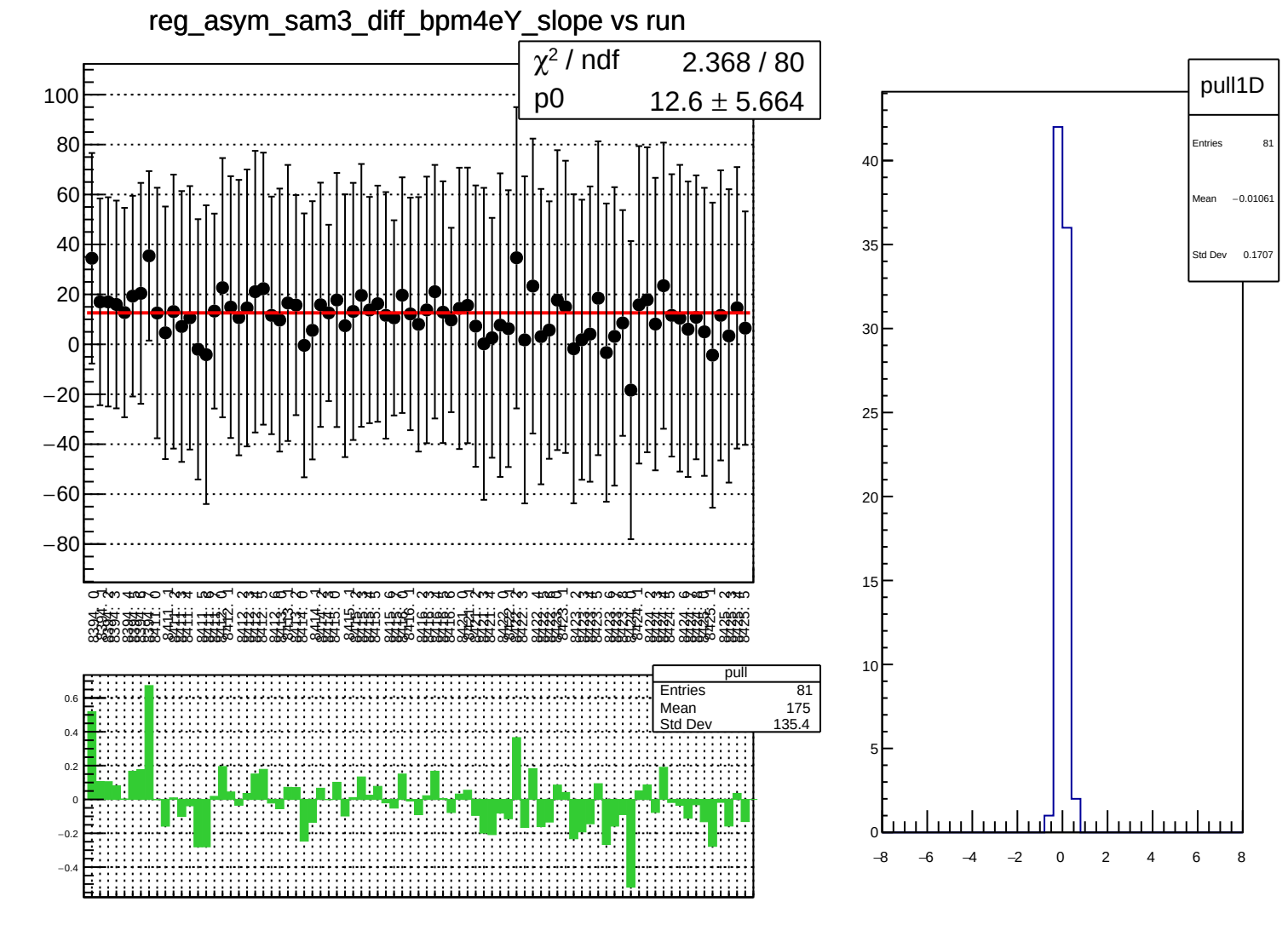

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 0.8725 / 80
p0 7.456 ± 0.5673
pull
Entries 81
Mean 110
Std Dev 86.48
pull1D
Entries 81
Mean −0.002983
Std Dev 0.1037

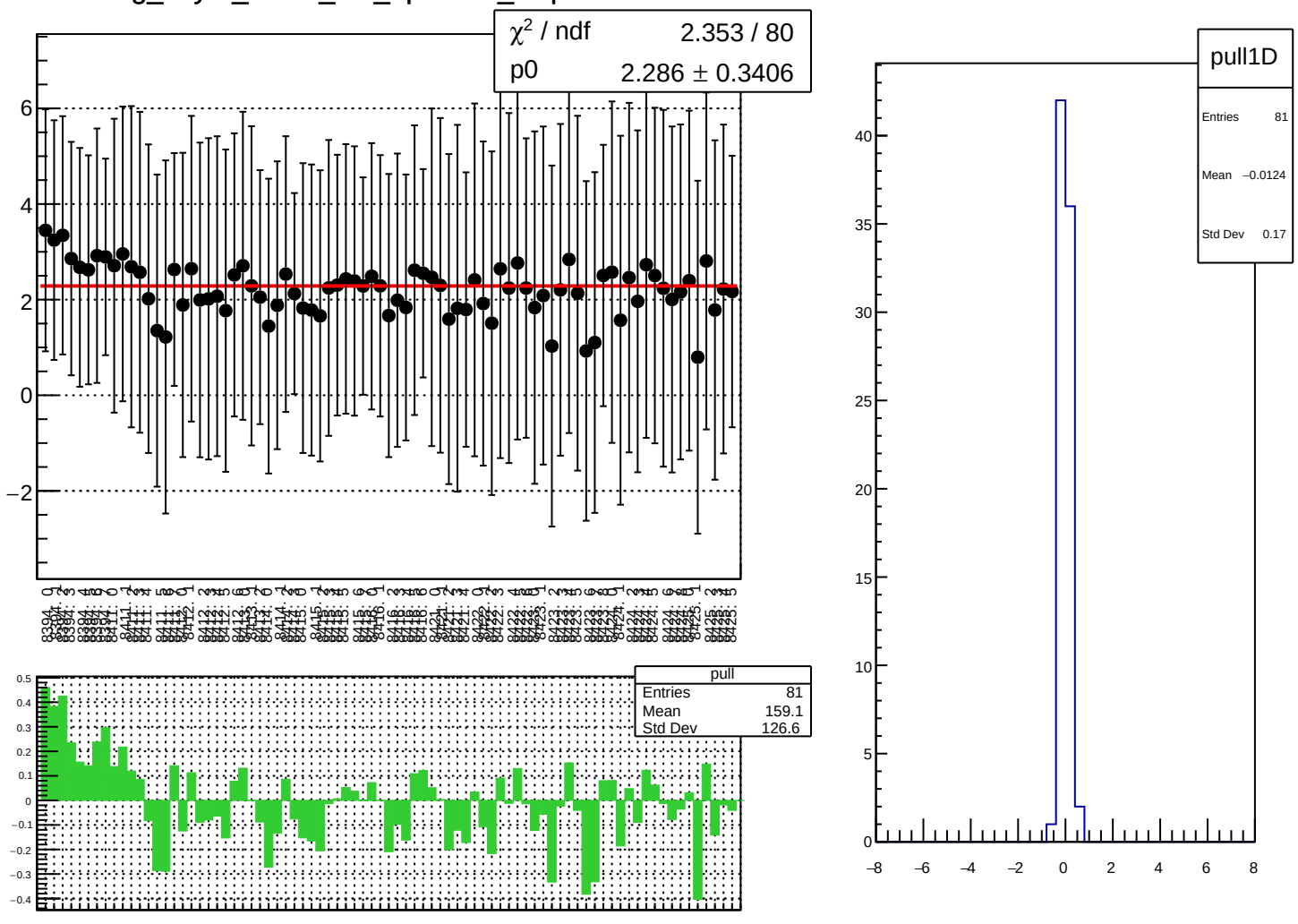

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 3.158 / 80
p0 −35.21± 2.907
pull
Entries 81
Mean 701.6
Std Dev 659.1
pull1D
Entries 81
Mean 0.003028
Std Dev 0.1974

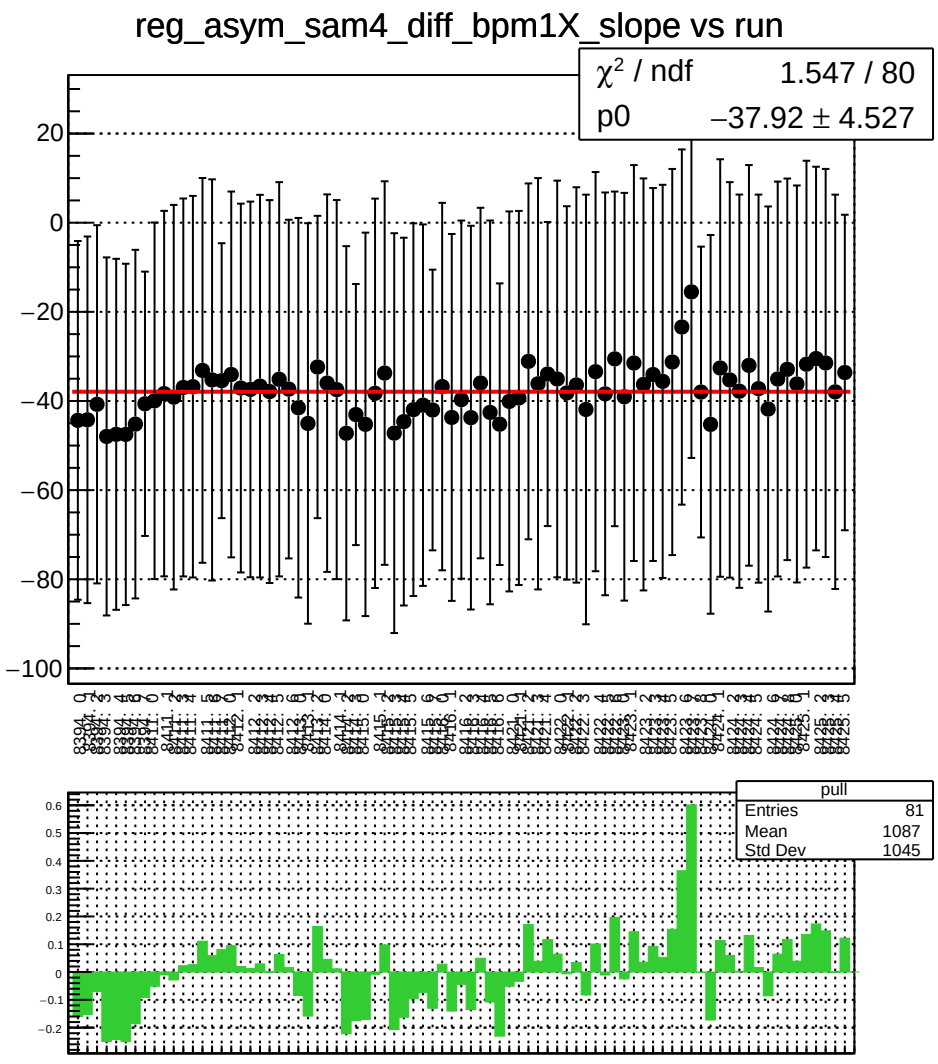

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 2.201 / 80
p0 4.282 ± 5.403
pull
Entries 81
Mean 191.1
Std Dev 149.9

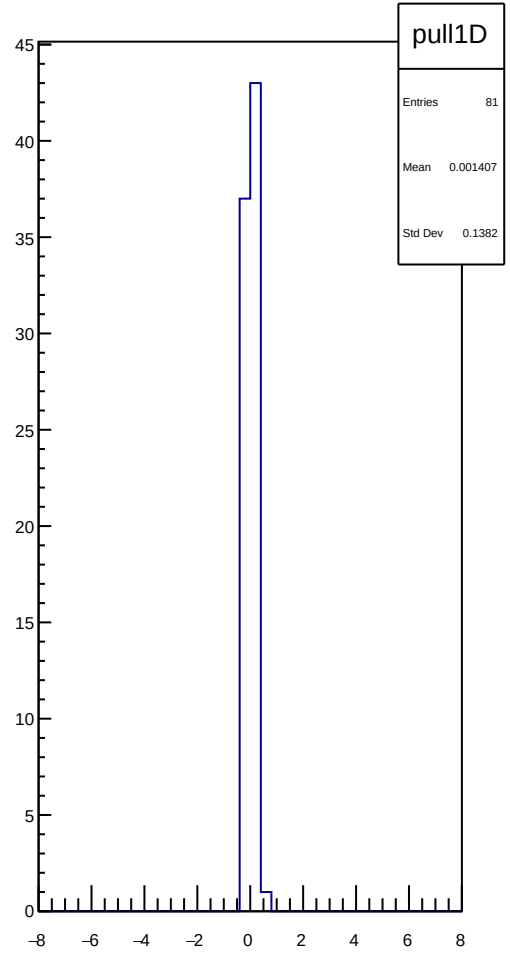

pull1D
Entries 81
Mean 0.00823
Std Dev 0.1646

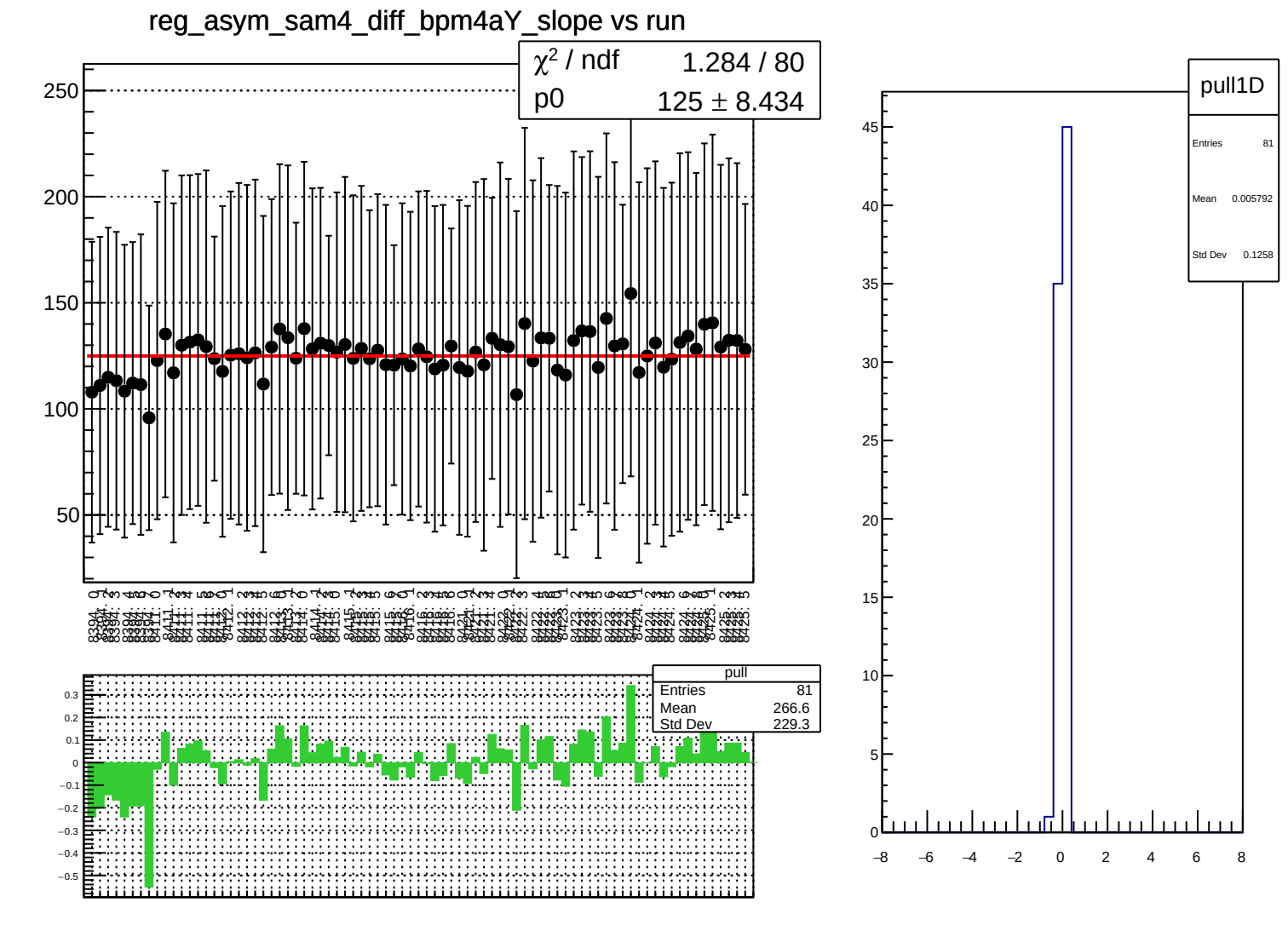

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 2.363 / 80
p0 −88.28 ± 3.223
pull
Entries 81
Mean 587.2
Std Dev 544.5
pull1D
Entries 81
Mean −0.002307
Std Dev 0.1708

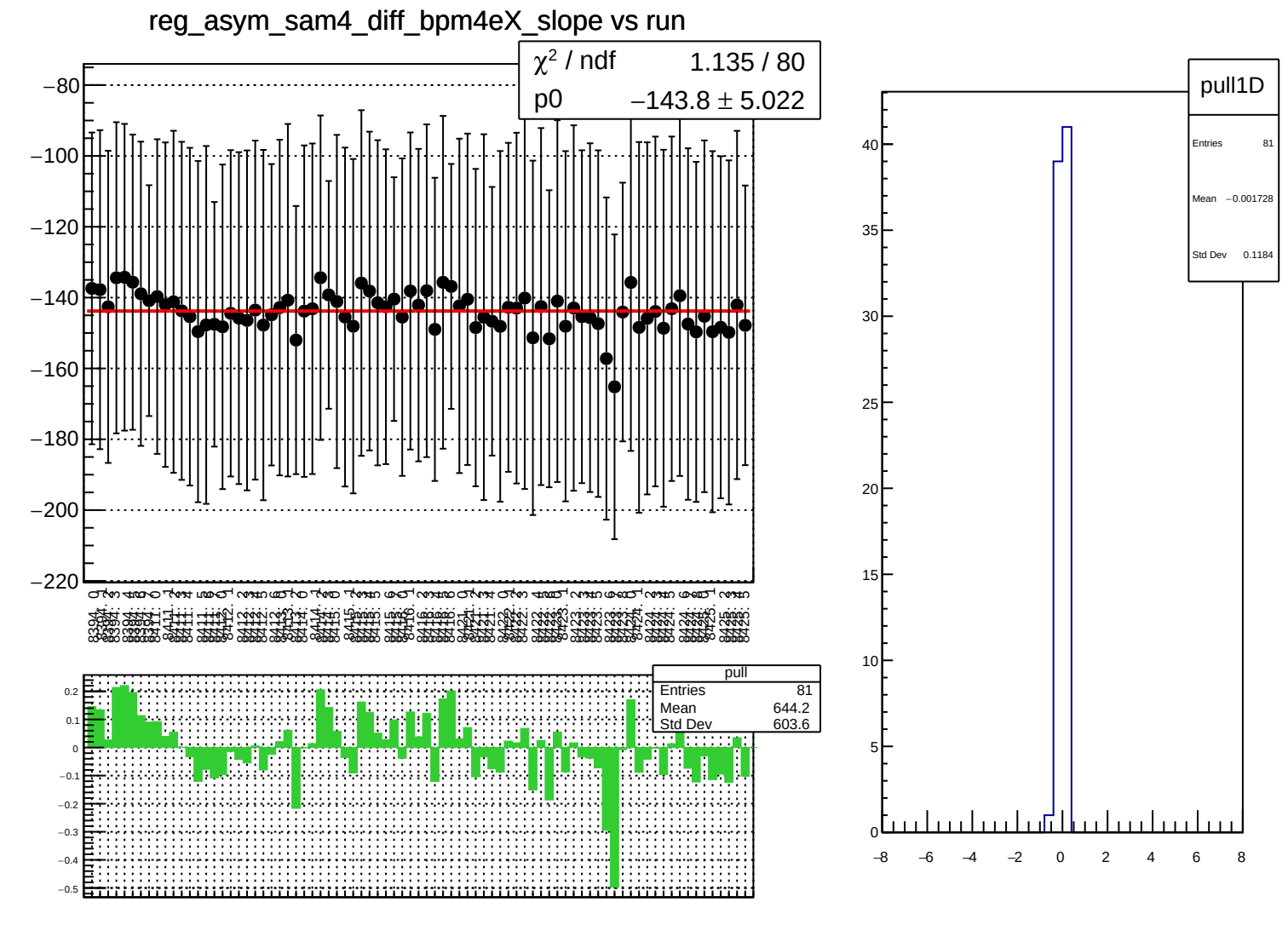

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 2.368 / 80
p0 12.6 ± 5.664
pull
Entries 81
Mean 175
Std Dev 135.4
pull1D
Entries 81
Mean −0.01061
Std Dev 0.1707

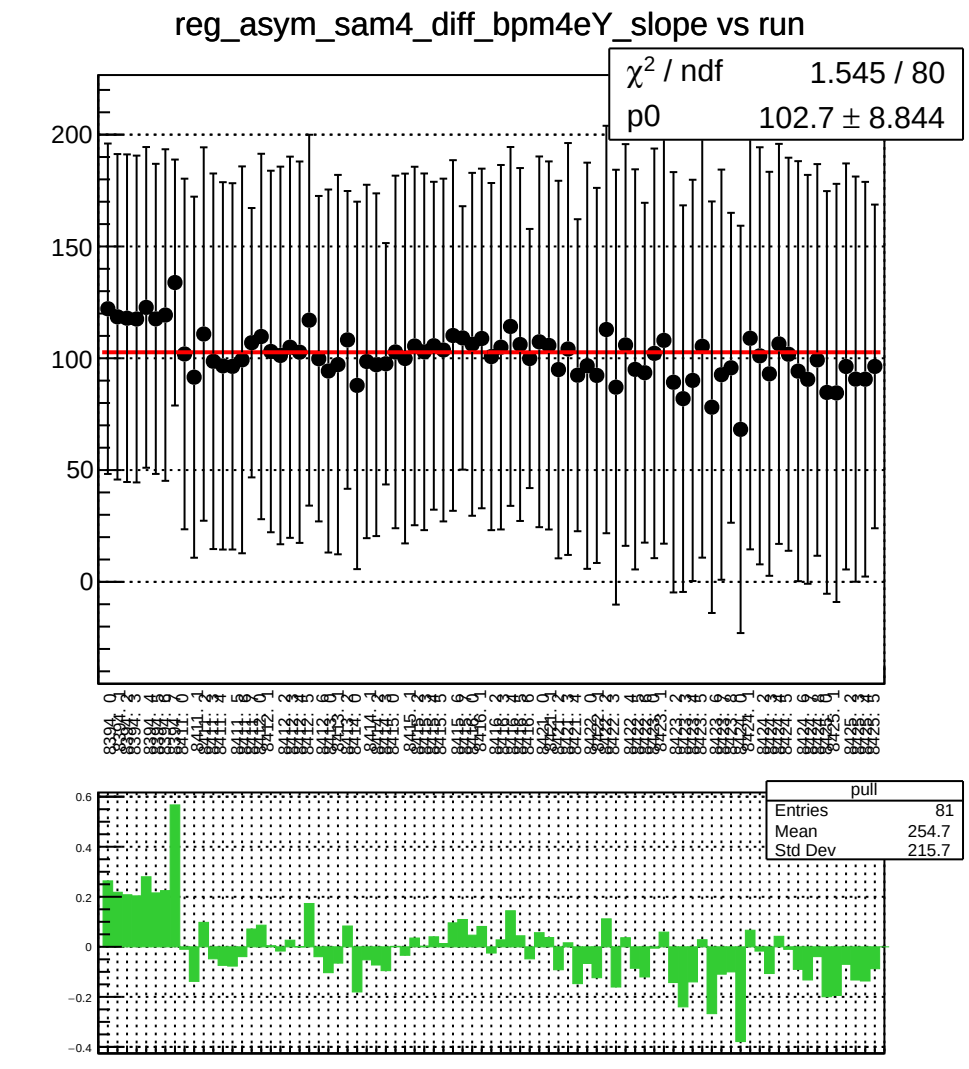

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 2.353 / 80
p0 2.286 ± 0.3406
pull
Entries 81
Mean 159.1
Std Dev 126.6
pull1D
Entries 81
Mean −0.0124
Std Dev 0.17

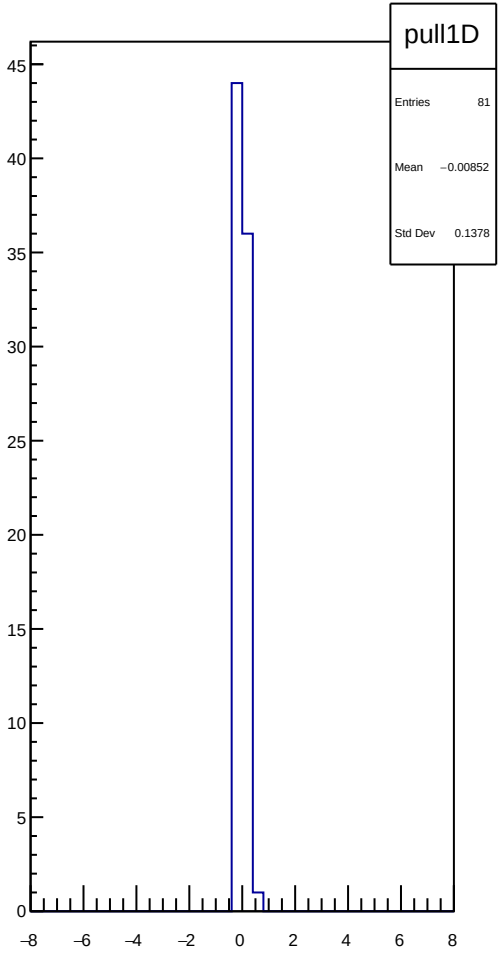

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 1.547 / 80
p0 −37.92 ± 4.527
pull
Entries 81
Mean 1087
Std Dev 1045

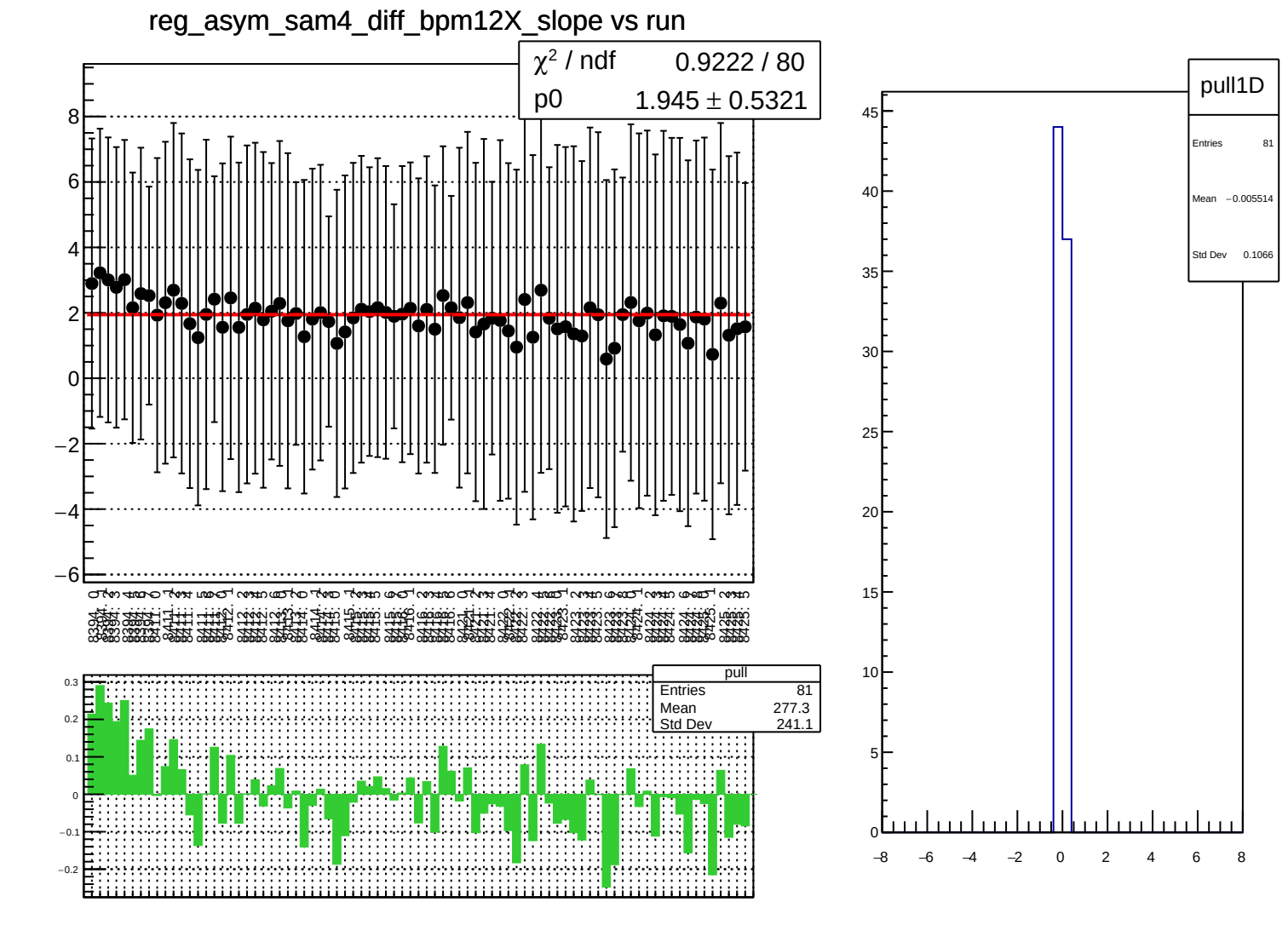

pull1D
Entries 81
Mean 0.001407
Std Dev 0.1382

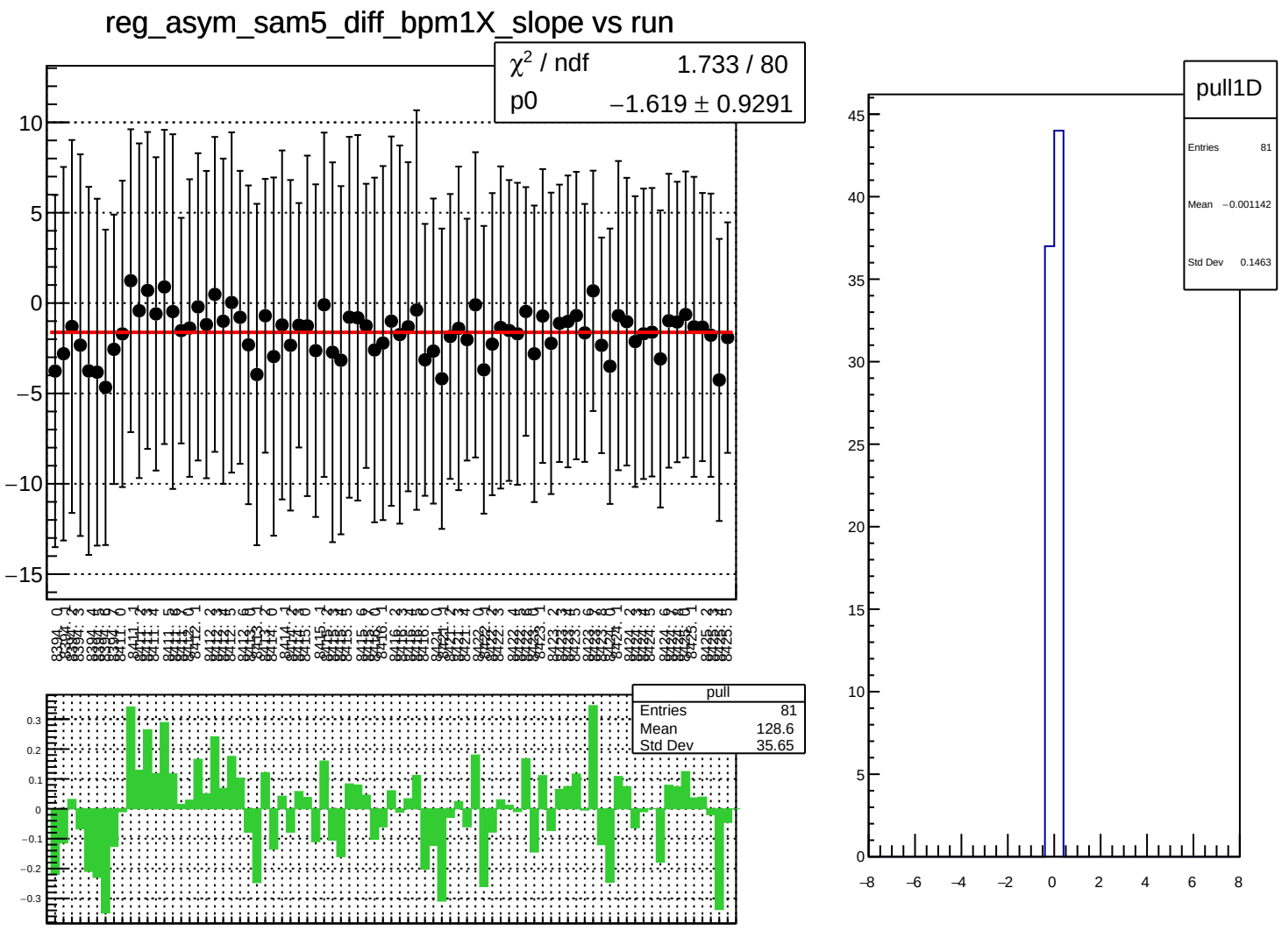

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.284 / 80
p0 125 ± 8.434
250
200
150
100
50
pull
Entries 81
Mean 266.6
Std Dev 229.3
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 81
Mean 0.005792
Std Dev 0.1258
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

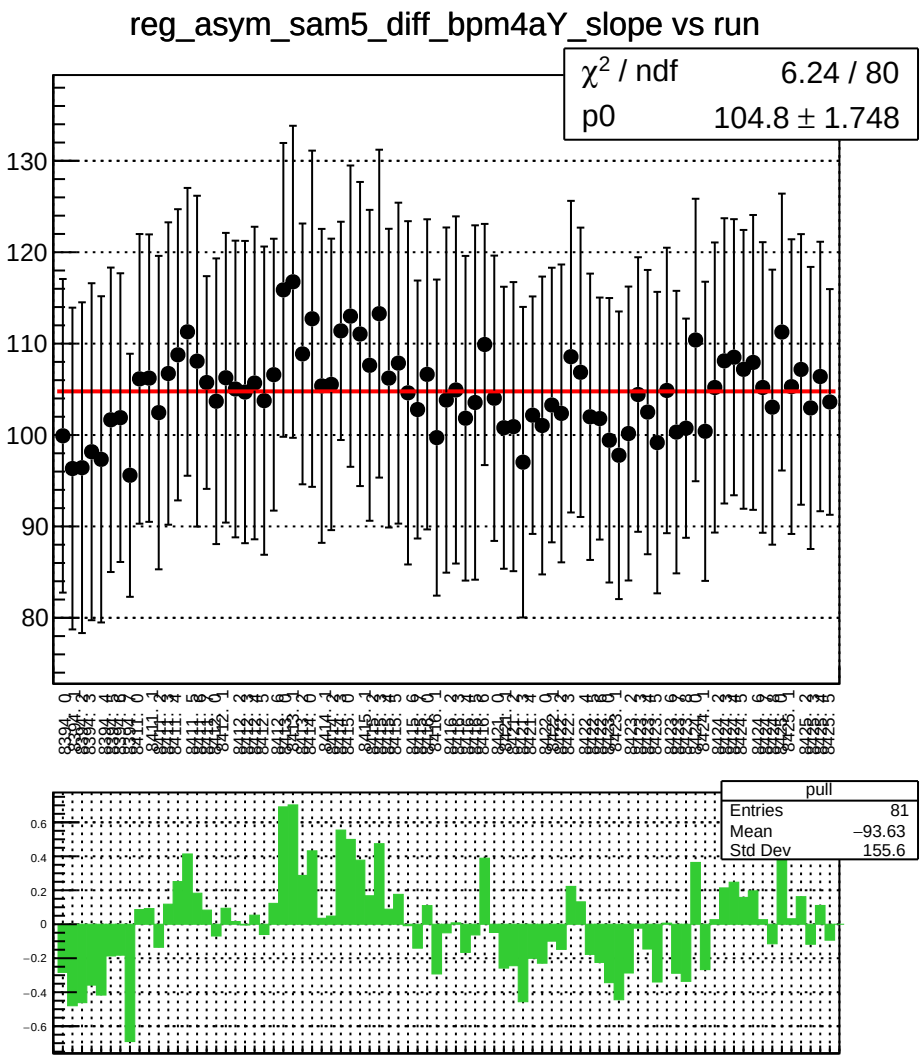

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 1.135 / 80
p0 −143.8 ± 5.022
pull
Entries 81
Mean 644.2
Std Dev 603.6
pull1D
Entries 81
Mean −0.001728
Std Dev 0.1184

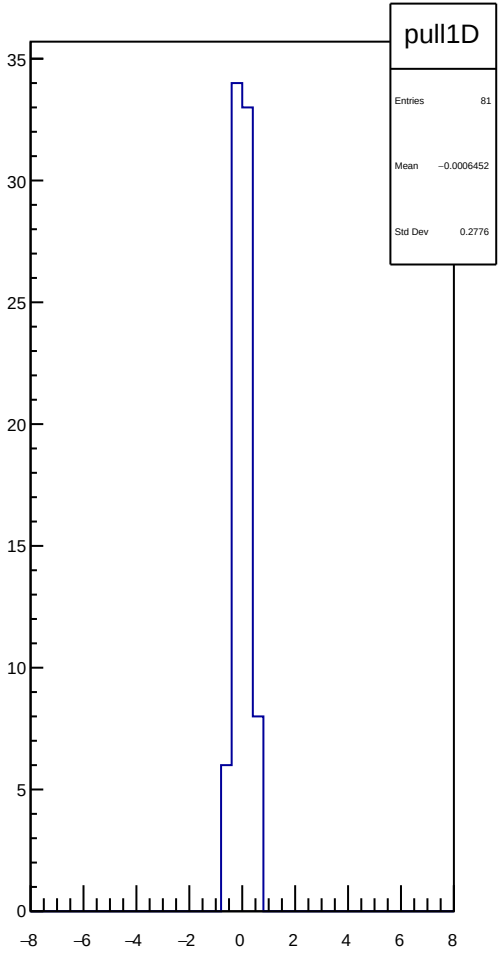

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 1.545 / 80
p0 102.7 ± 8.844
200
150
100
50
0
pull
Entries 81
Mean 254.7
Std Dev 215.7
0.6
0.4
0.2
0
−0.2
−0.4

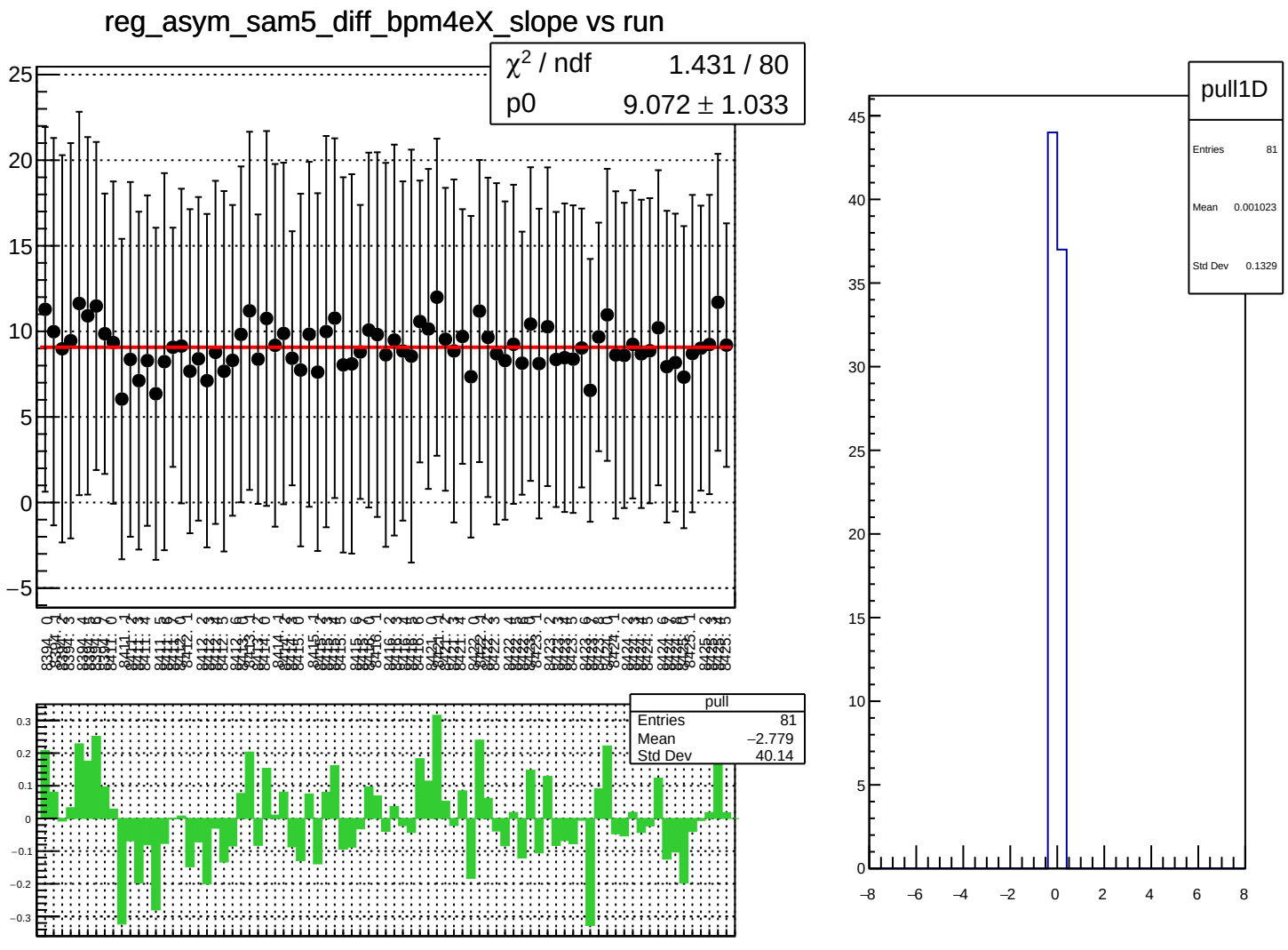

pull1D
Entries 81
Mean −0.00852
Std Dev 0.1378
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

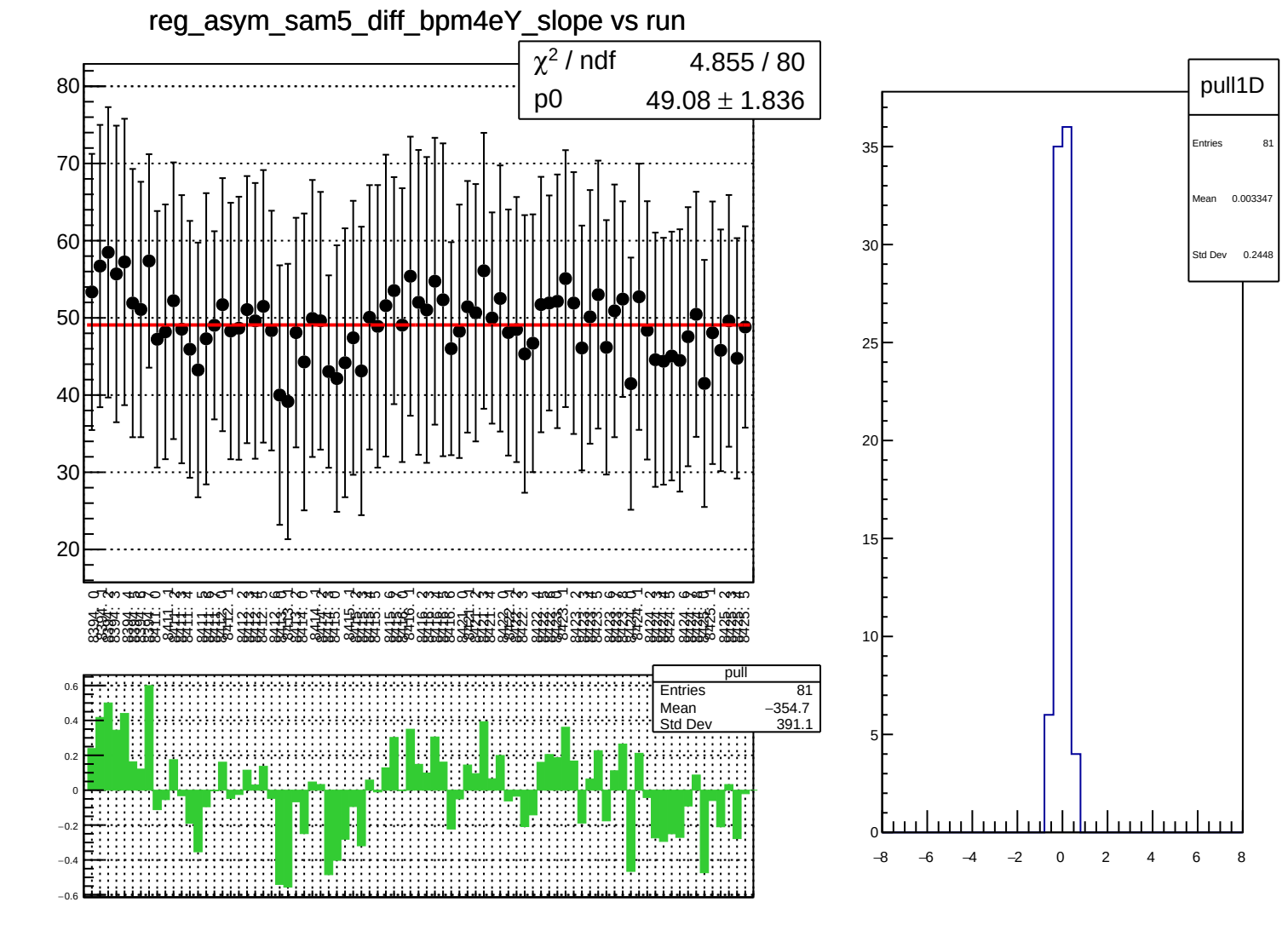

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 0.9222 / 80
p0 1.945 ± 0.5321
pull
Entries 81
Mean 277.3
Std Dev 241.1
pull1D
Entries 81
Mean −0.005514
Std Dev 0.1066

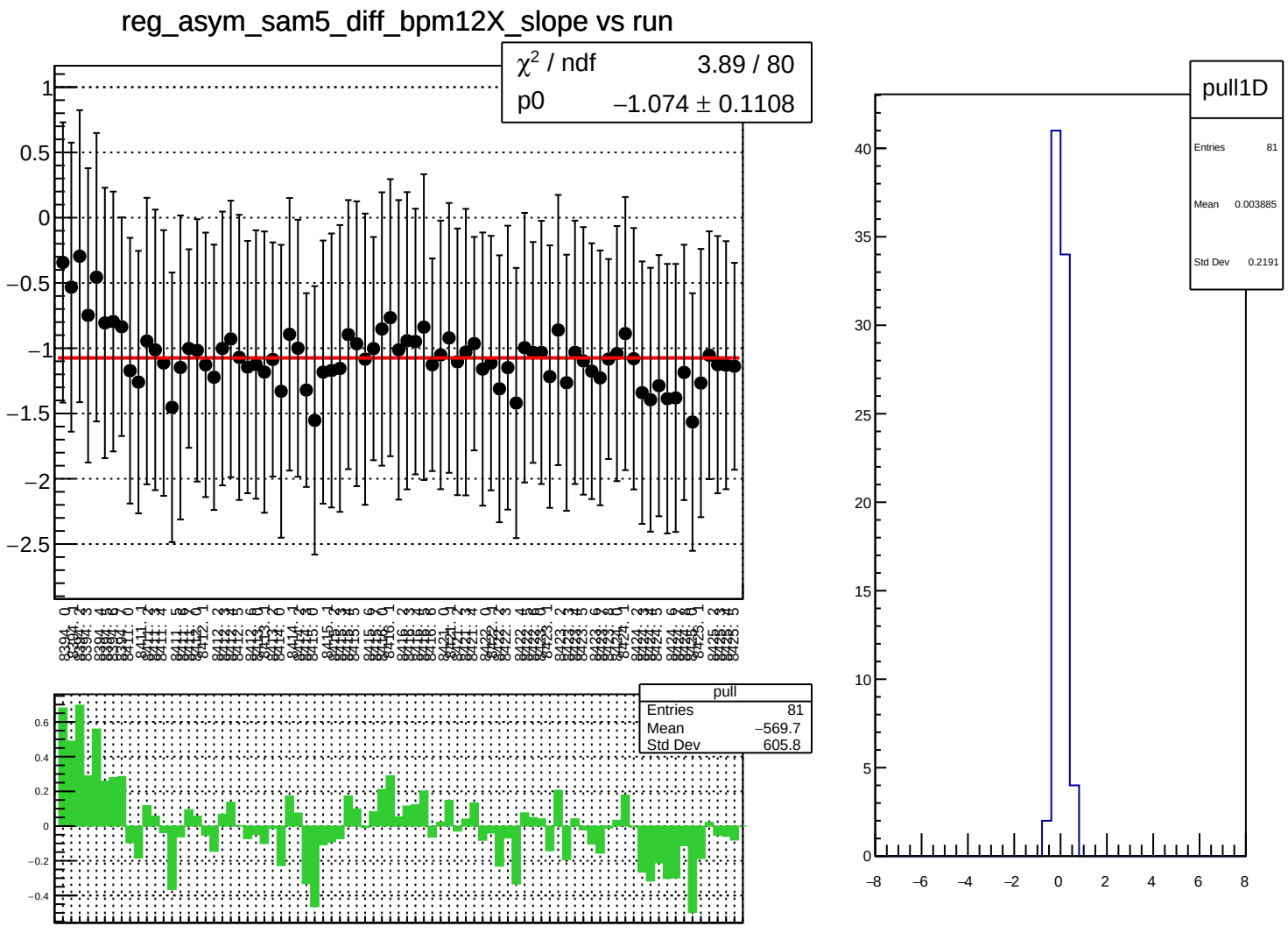

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 1.733 / 80
p0 −1.619 ± 0.9291
pull
Entries 81
Mean 128.6
Std Dev 35.65
pull1D
Entries 81
Mean −0.001142
Std Dev 0.1463

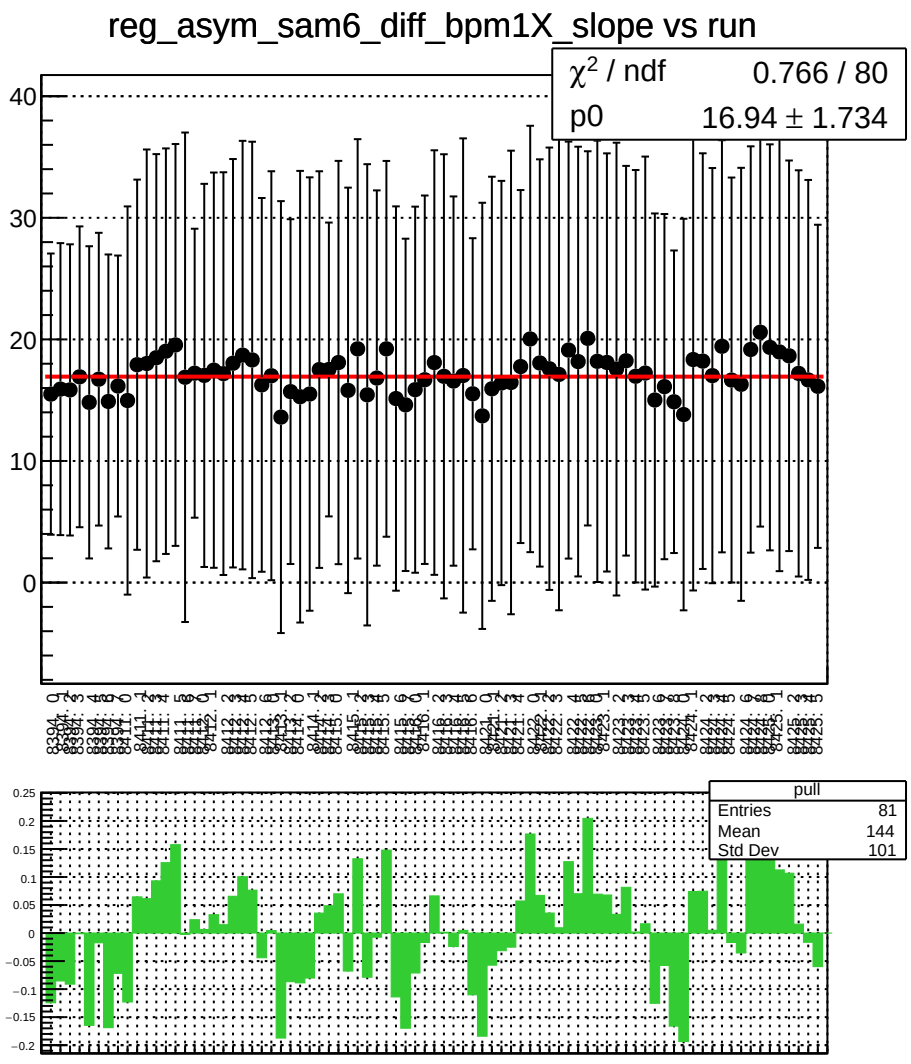

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 6.24 / 80
p0 104.8 ± 1.748
130
120
110
100
90
80
pull
Entries 81
Mean −93.63
Std Dev 155.6
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

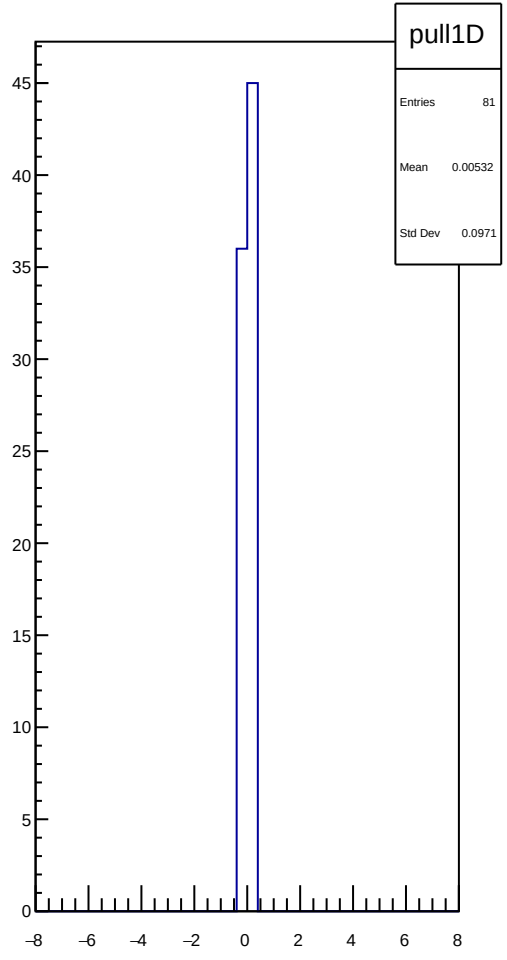

pull1D
Entries 81
Mean −0.0006452
Std Dev 0.2776
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

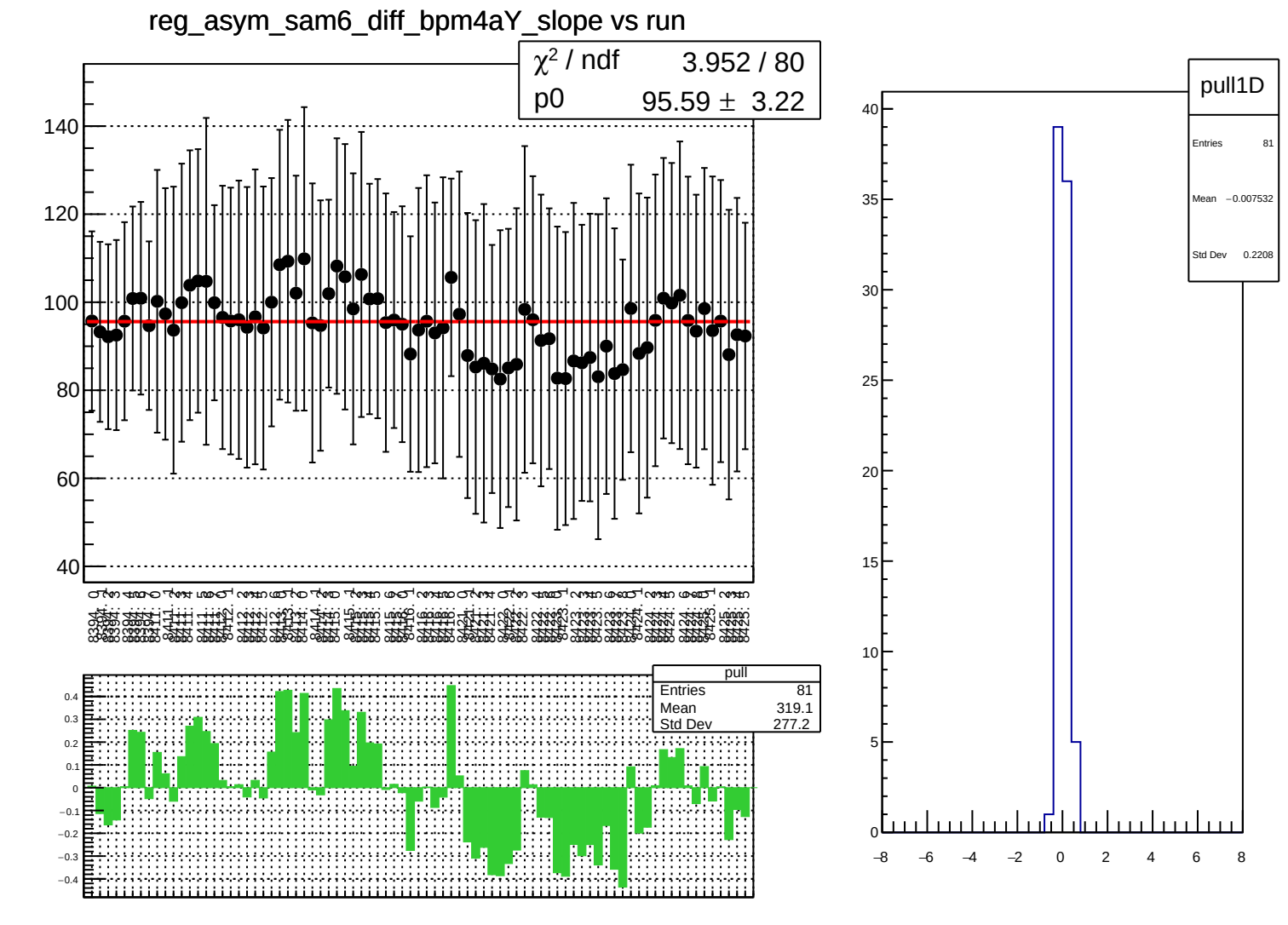

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 1.431 / 80
p0 9.072 ± 1.033
pull
Entries 81
Mean −2.779
Std Dev 40.14
pull1D
Entries 81
Mean 0.001023
Std Dev 0.1329

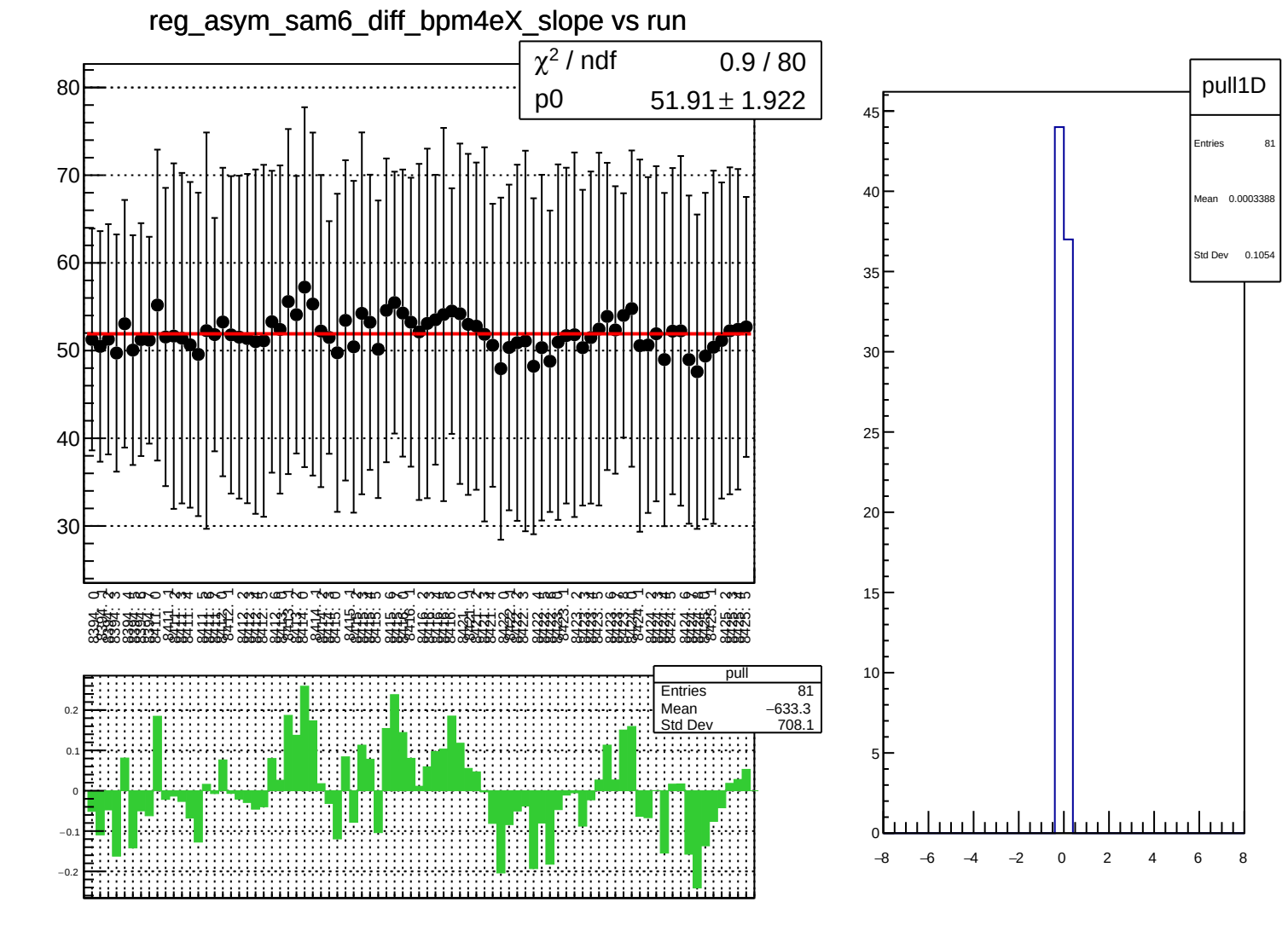

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 4.855 / 80
p0 49.08 ± 1.836
pull
Entries 81
Mean −354.7
Std Dev 391.1
pull1D
Entries 81
Mean 0.003347
Std Dev 0.2448

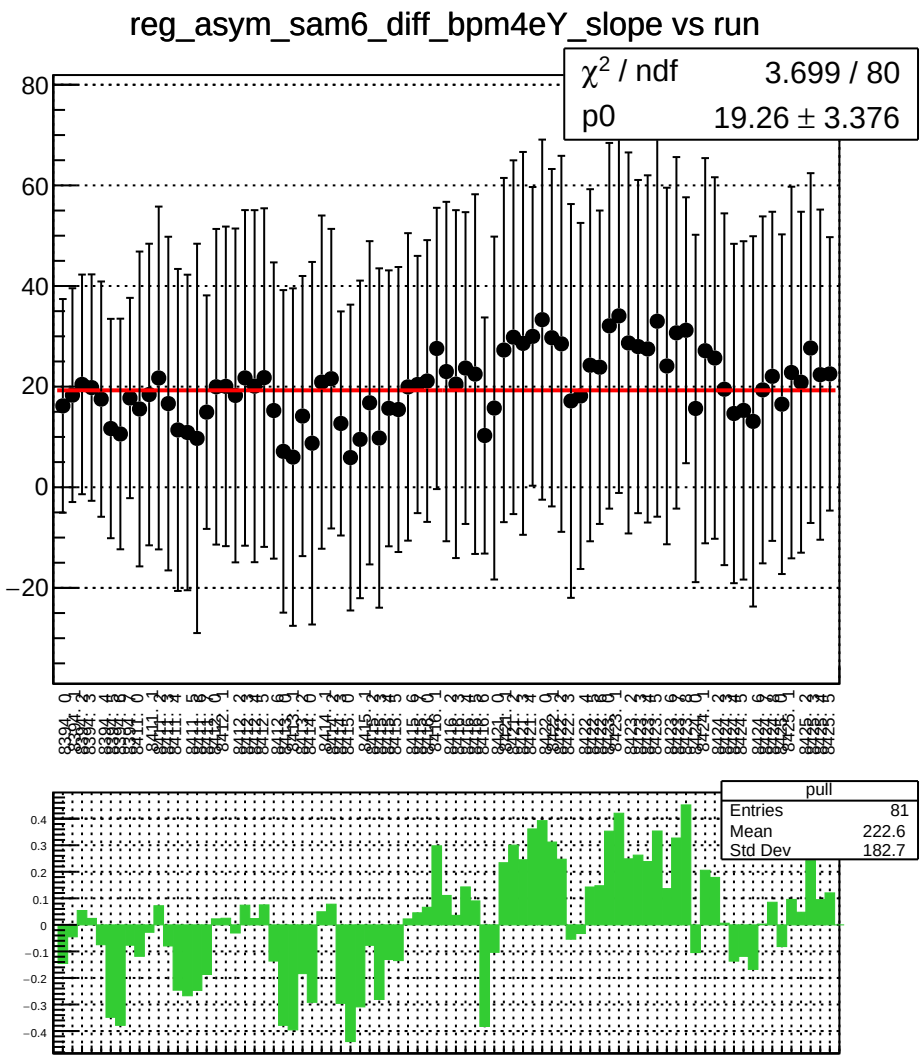

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 3.89 / 80
p0 −1.074 ± 0.1108
pull
Entries 81
Mean −569.7
Std Dev 605.8
pull1D
Entries 81
Mean 0.003885
Std Dev 0.2191

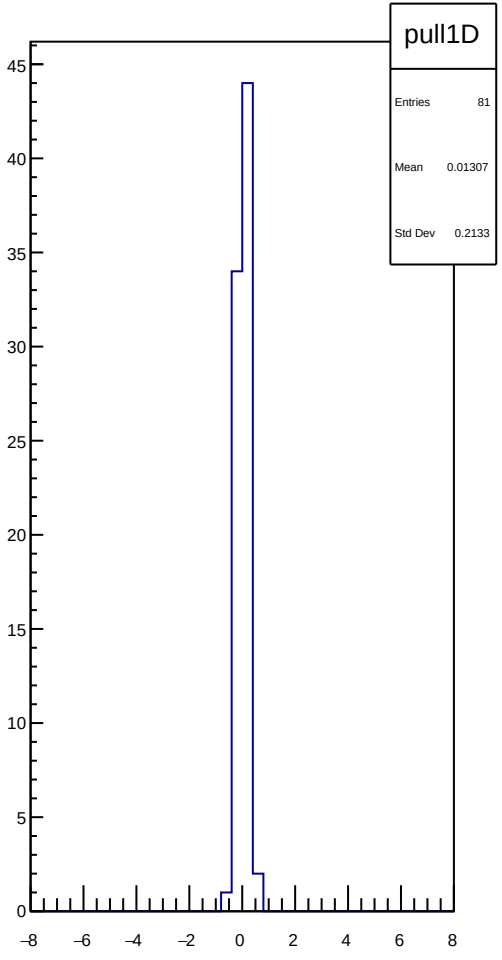

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 0.766 / 80
p0 16.94 ± 1.734
pull
Entries 81
Mean 144
Std Dev 101

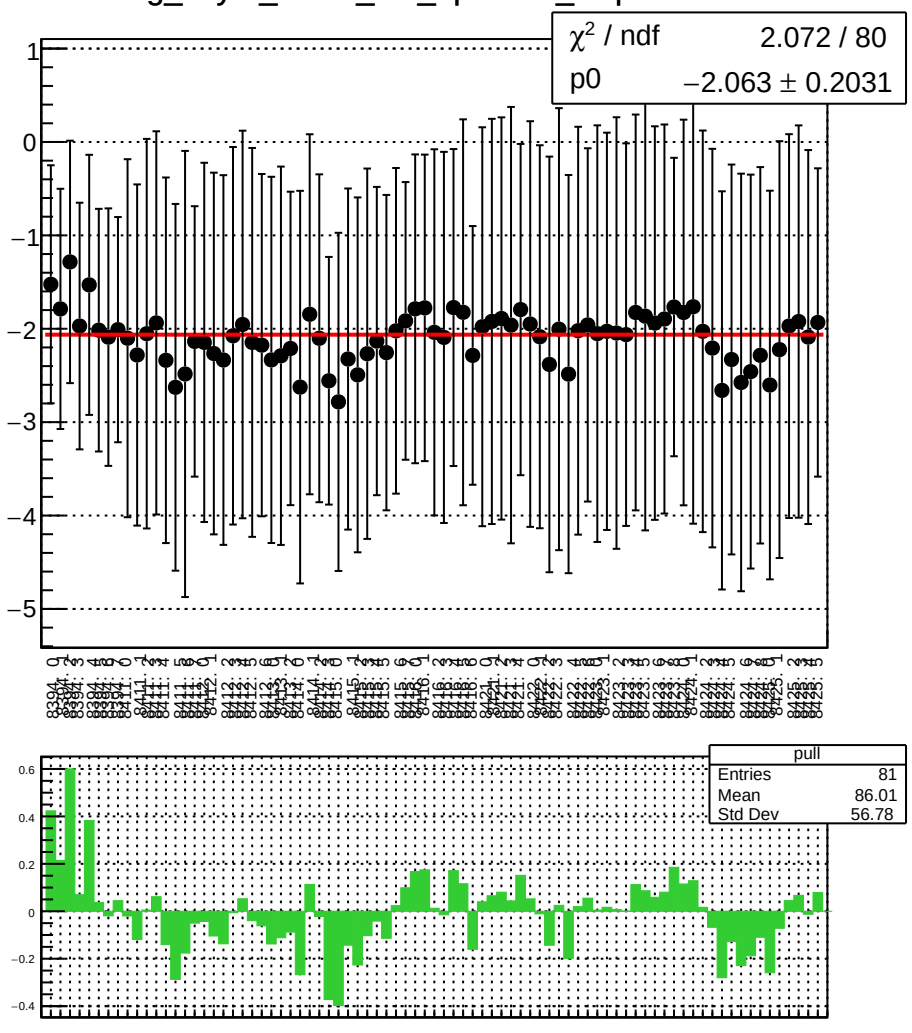

pull1D
Entries 81
Mean 0.00532
Std Dev 0.0971

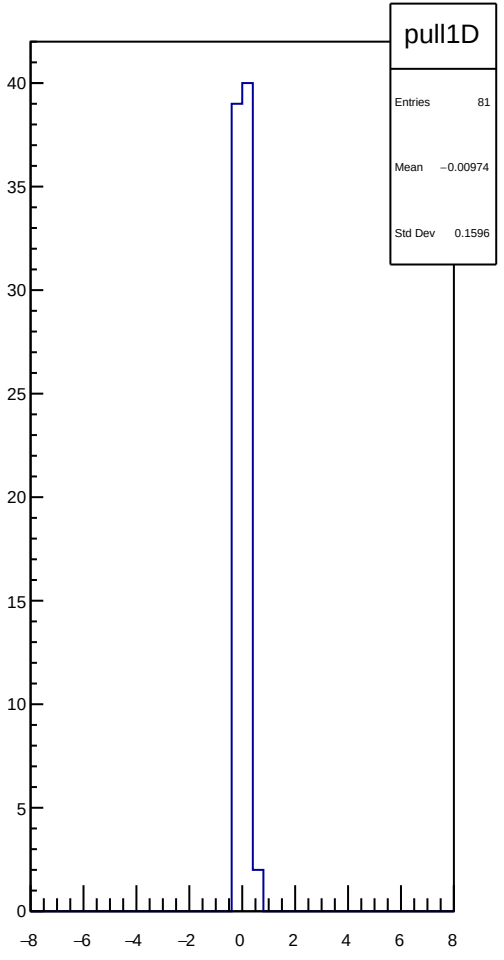

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 3.952 / 80
p0 95.59 ± 3.22
pull
Entries 81
Mean 319.1
Std Dev 277.2
pull1D
Entries 81
Mean −0.007532
Std Dev 0.2208

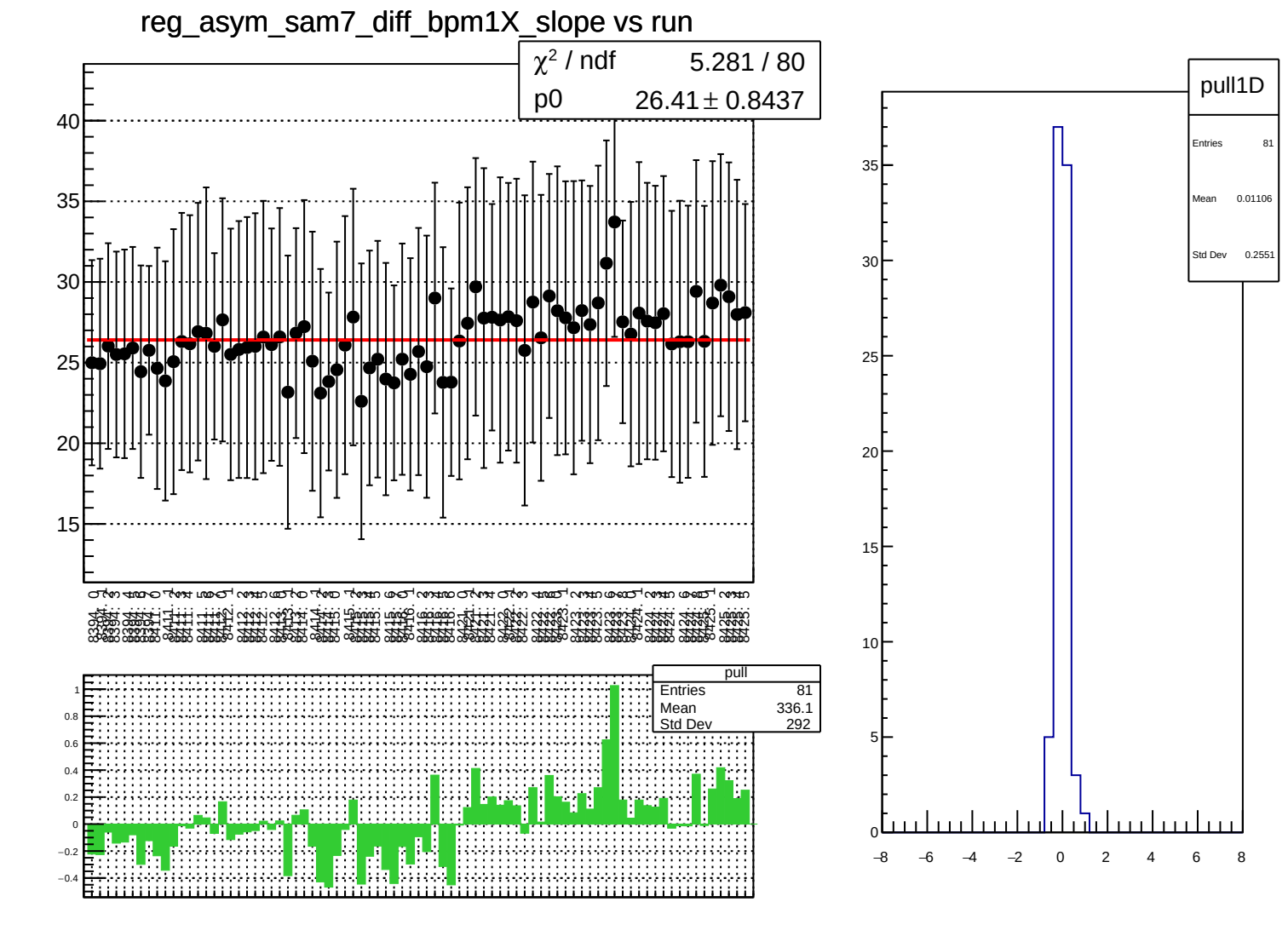

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 0.9 / 80
p0 51.91 ± 1.922
pull
Entries 81
Mean −633.3
Std Dev 708.1
pull1D
Entries 81
Mean 0.0003388
Std Dev 0.1054

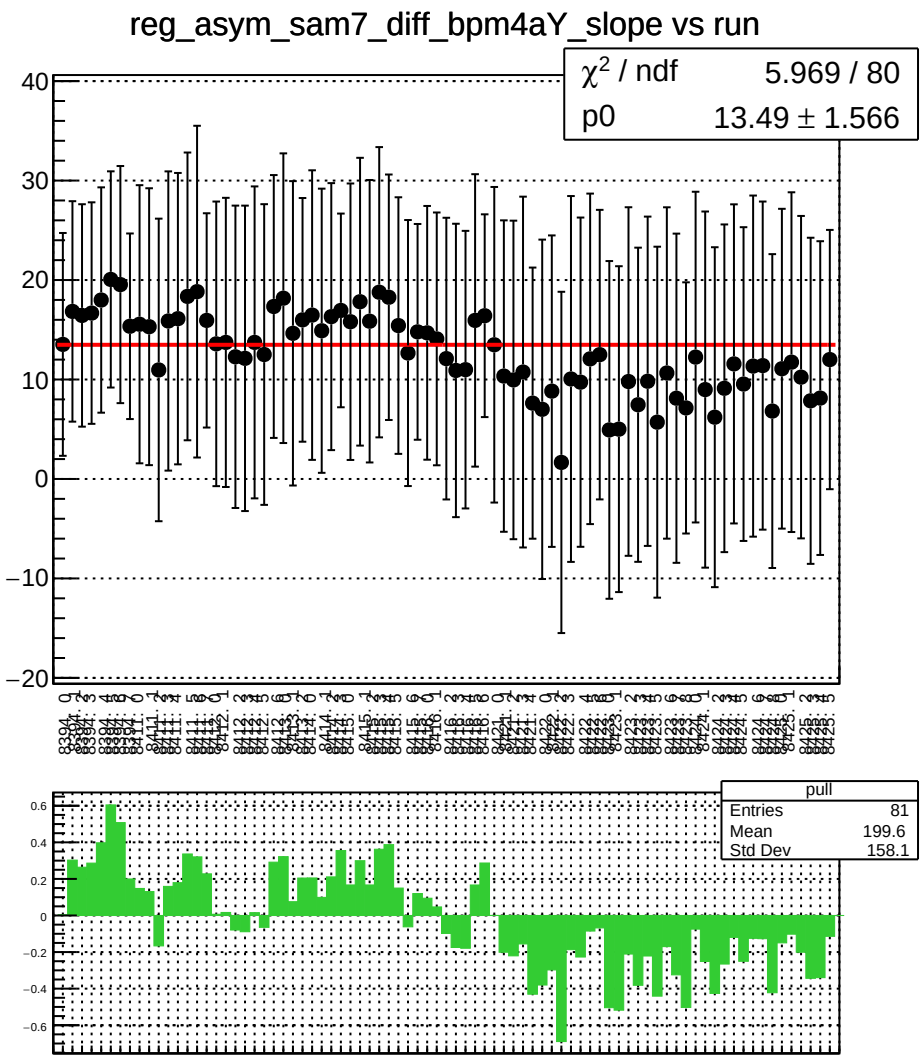

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 3.699 / 80
p0 19.26 ± 3.376
pull
Entries 81
Mean 222.6
Std Dev 182.7

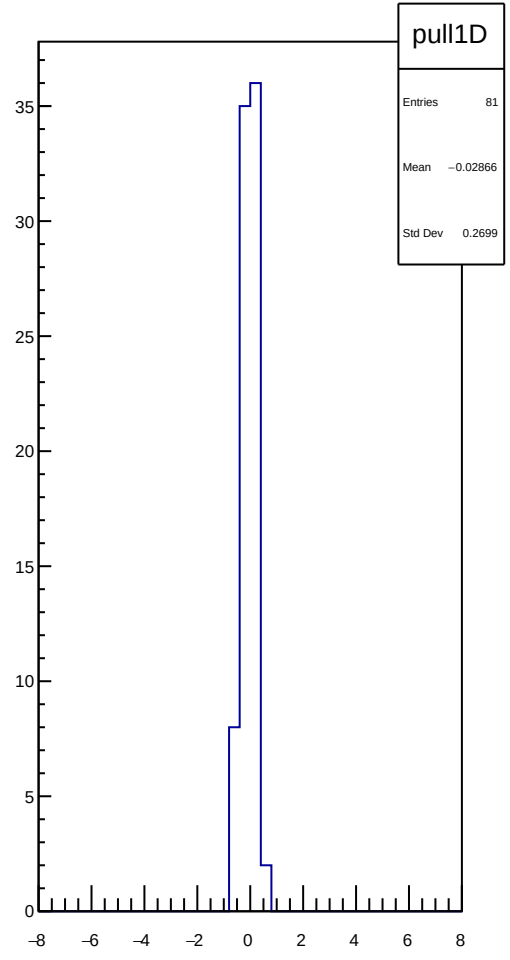

pull1D
Entries 81
Mean 0.01307
Std Dev 0.2133

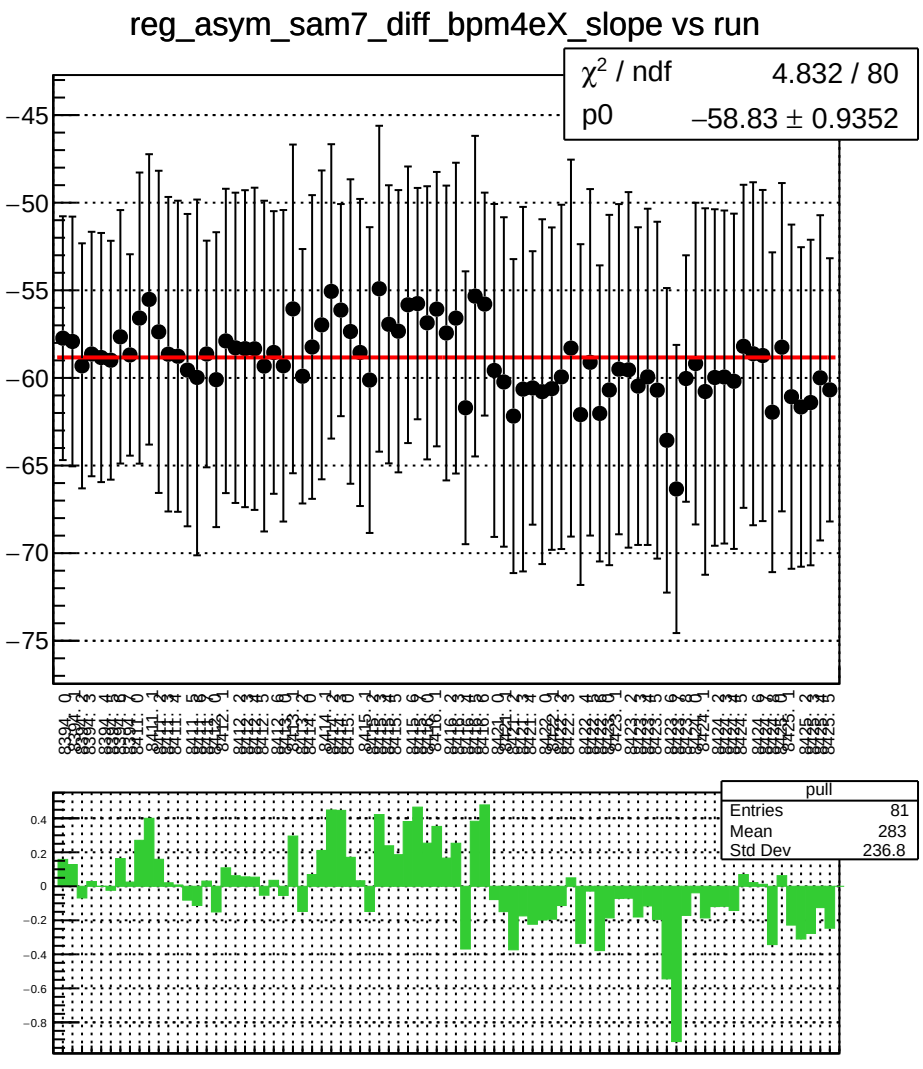

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 2.072 / 80
p0 −2.063 ± 0.2031
pull
Entries 81
Mean 86.01
Std Dev 56.78

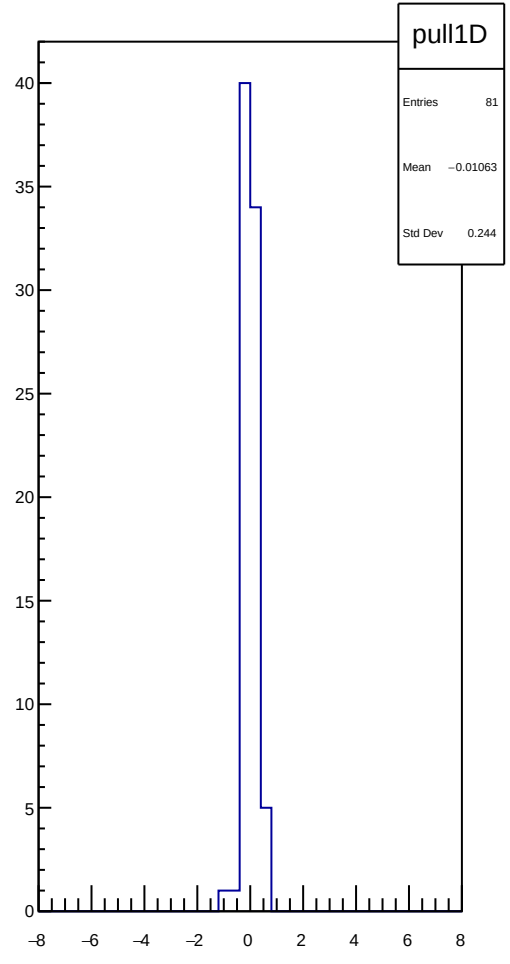

pull1D
Entries 81
Mean −0.00974
Std Dev 0.1596

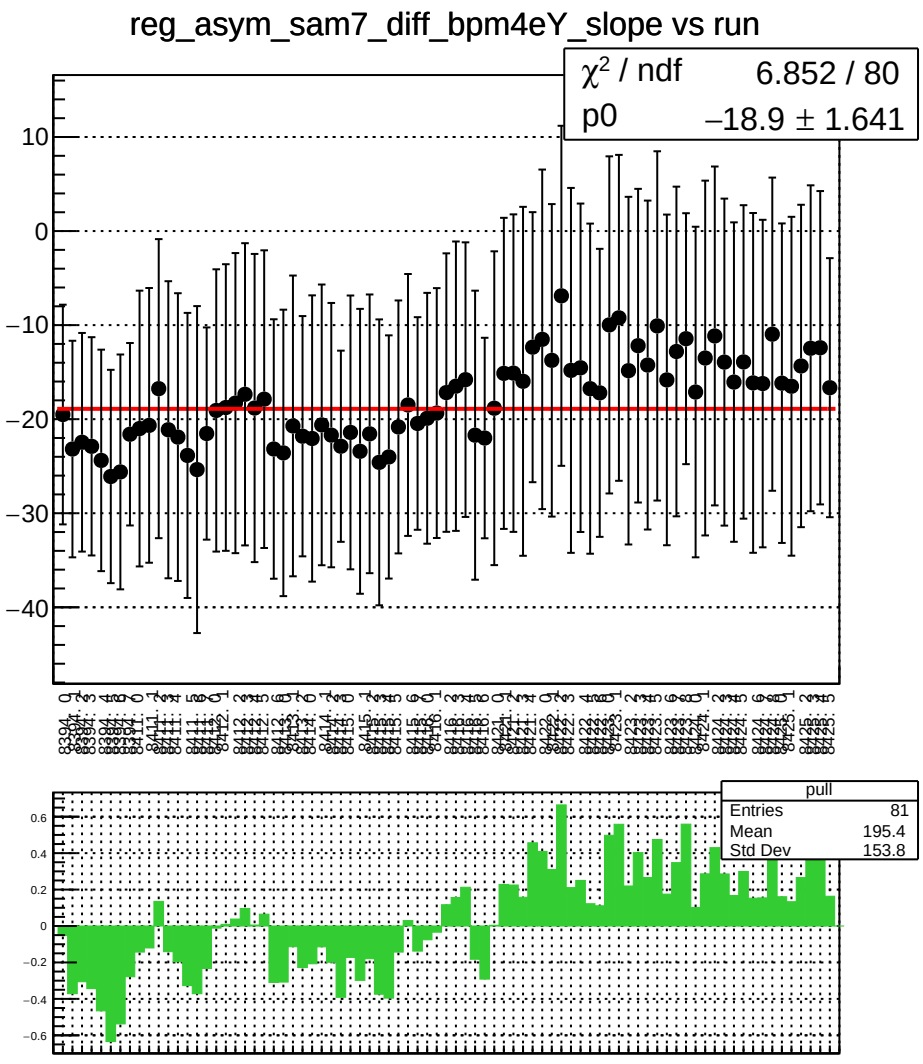

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 5.281 / 80
p0 26.41 ± 0.8437
pull
Entries 81
Mean 336.1
Std Dev 292
pull1D
Entries 81
Mean 0.01106
Std Dev 0.2551

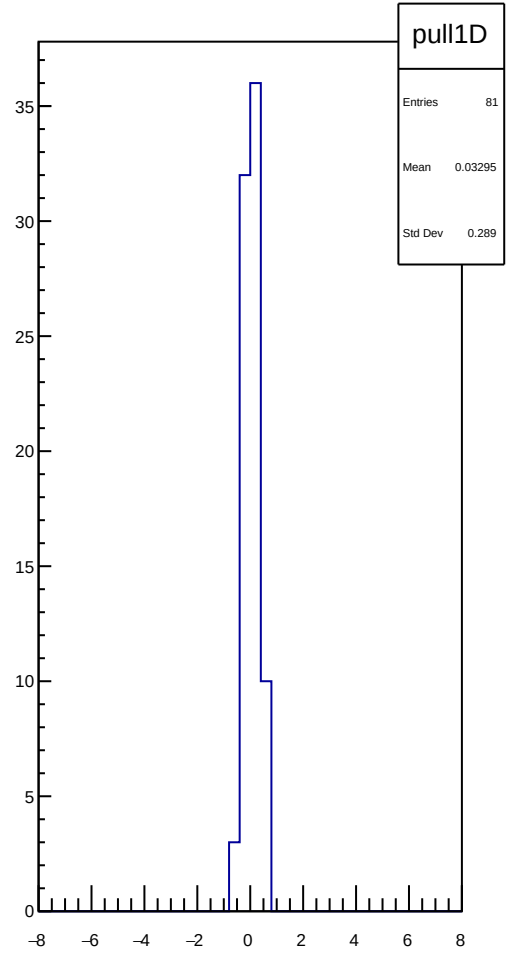

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 5.969 / 80
p0 13.49 ± 1.566
pull
Entries 81
Mean 199.6
Std Dev 158.1

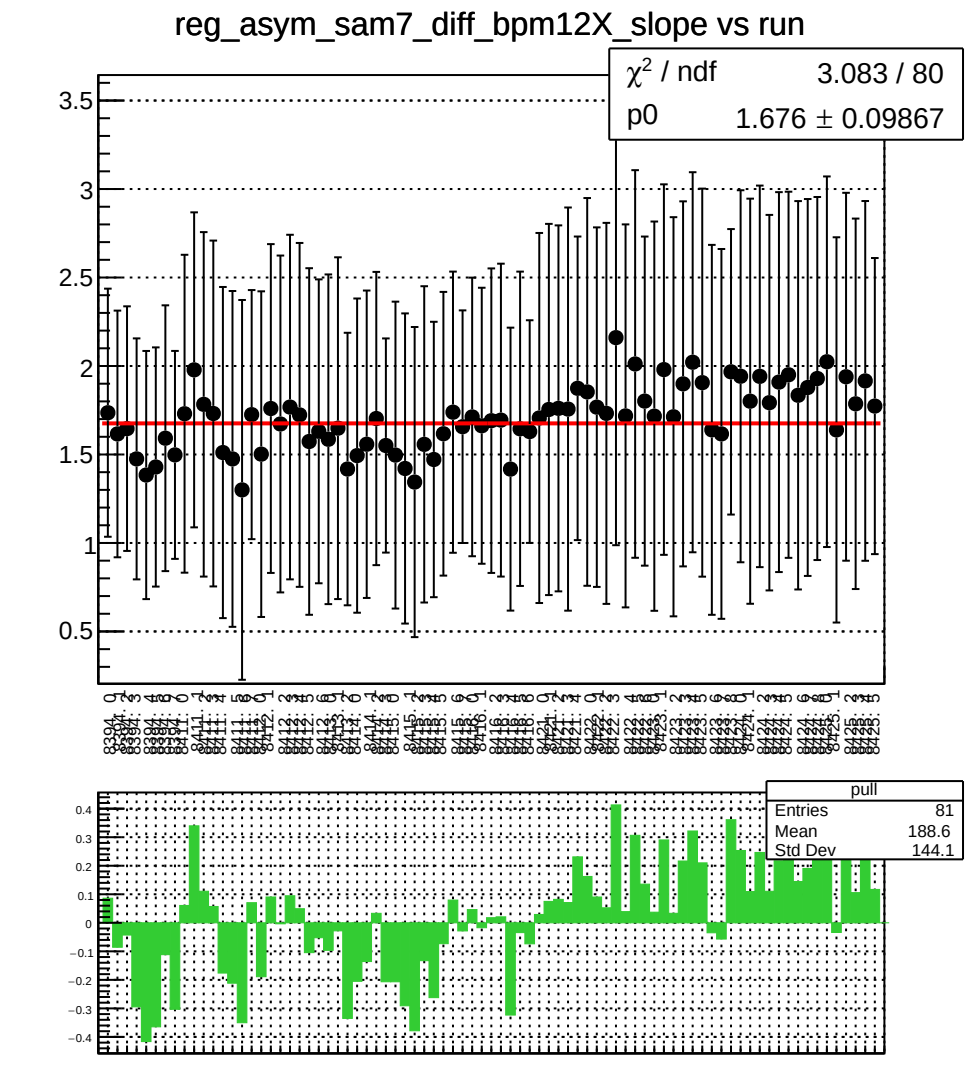

pull1D
Entries 81
Mean −0.02866
Std Dev 0.2699

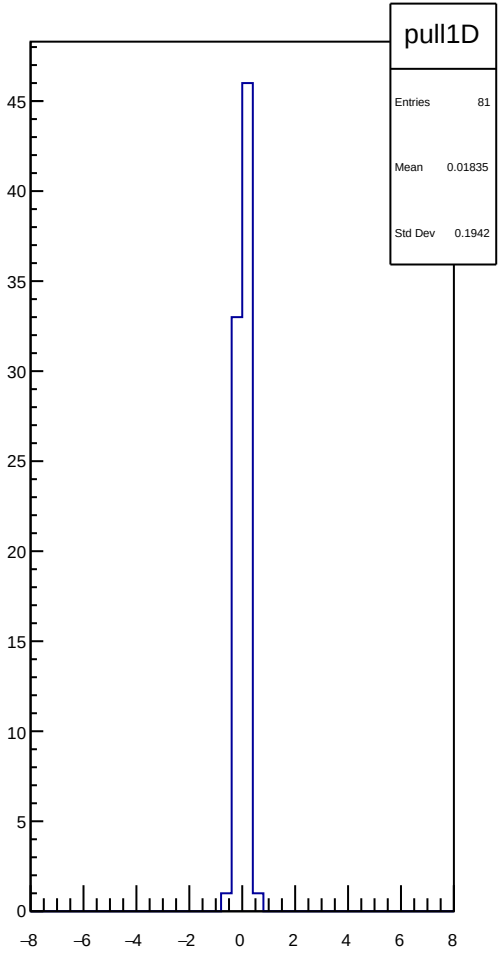

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 4.832 / 80
p0 −58.83 ± 0.9352
pull
Entries 81
Mean 283
Std Dev 236.8

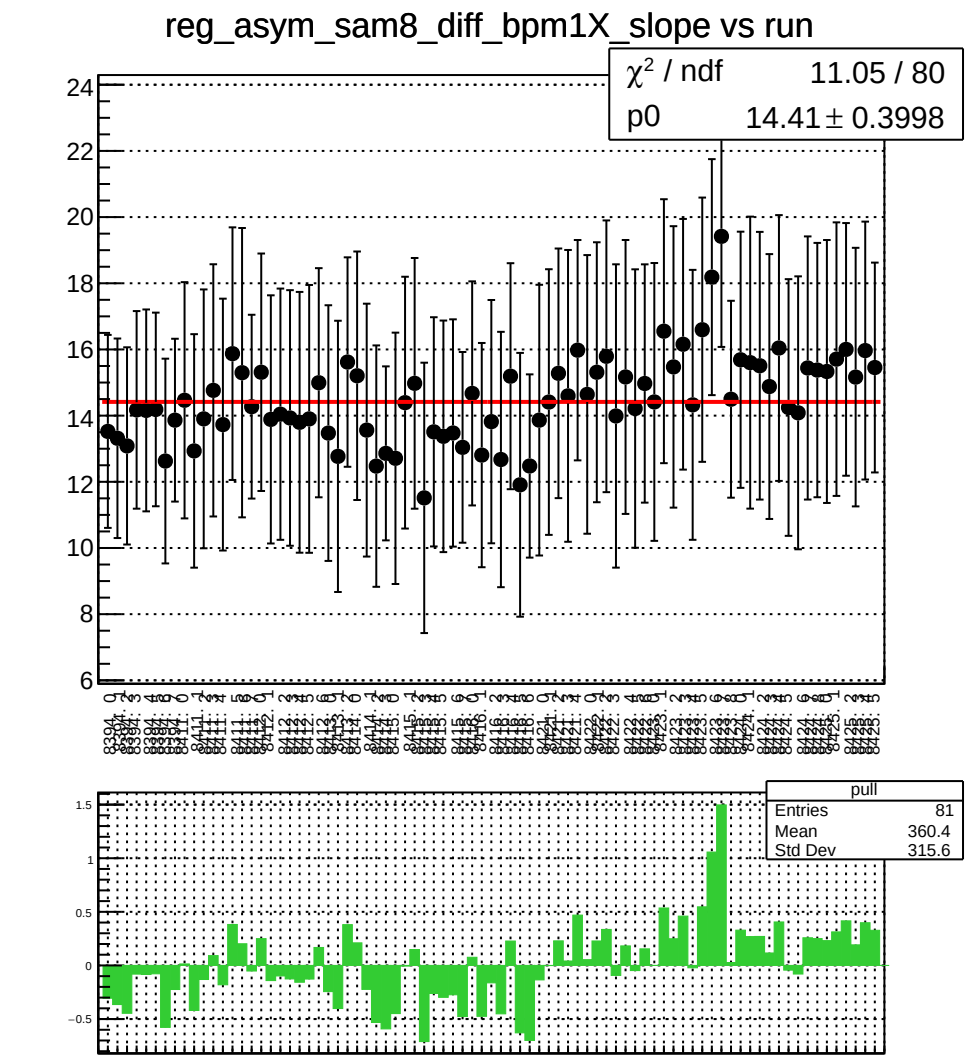

pull1D
Entries 81
Mean −0.01063
Std Dev 0.244

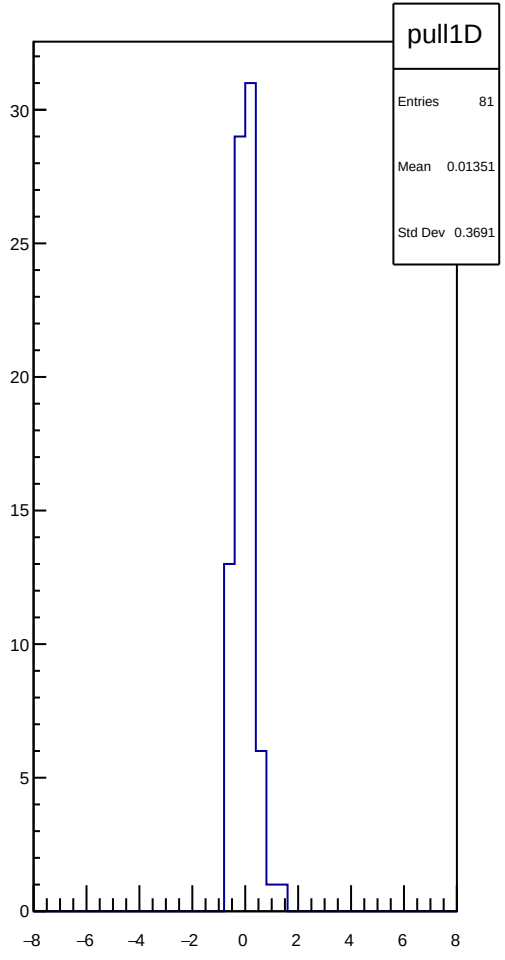

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 6.852 / 80
p0 −18.9 ± 1.641
pull
Entries 81
Mean 195.4
Std Dev 153.8

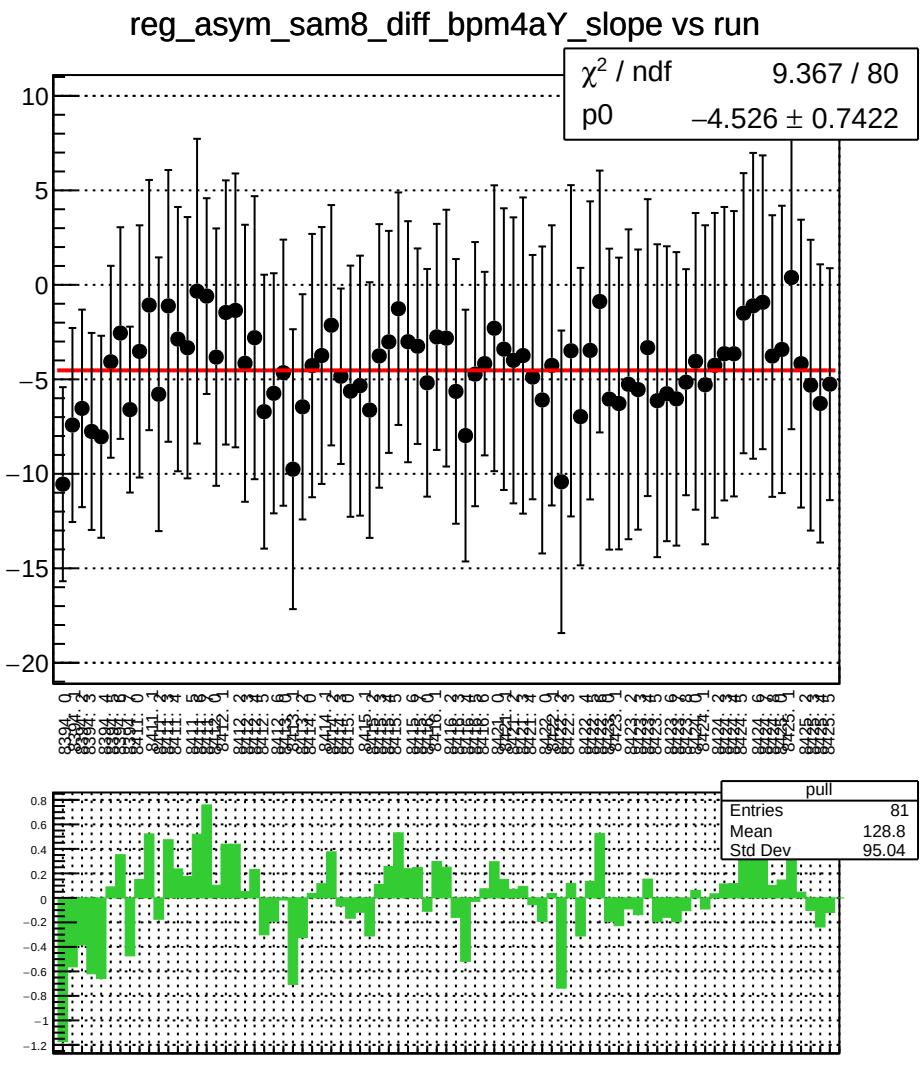

pull1D
Entries 81
Mean 0.03295
Std Dev 0.289

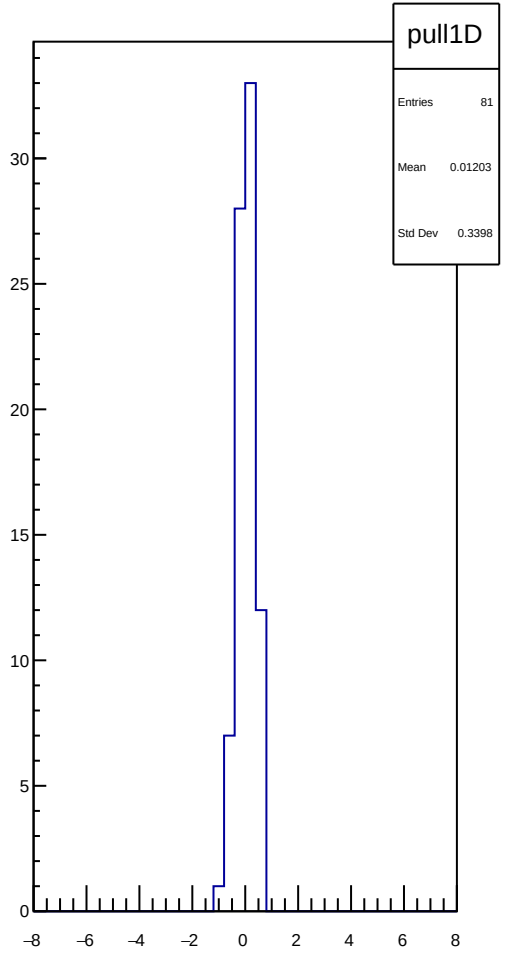

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 3.083 / 80
p0 1.676 ± 0.09867
pull
Entries 81
Mean 188.6
Std Dev 144.1

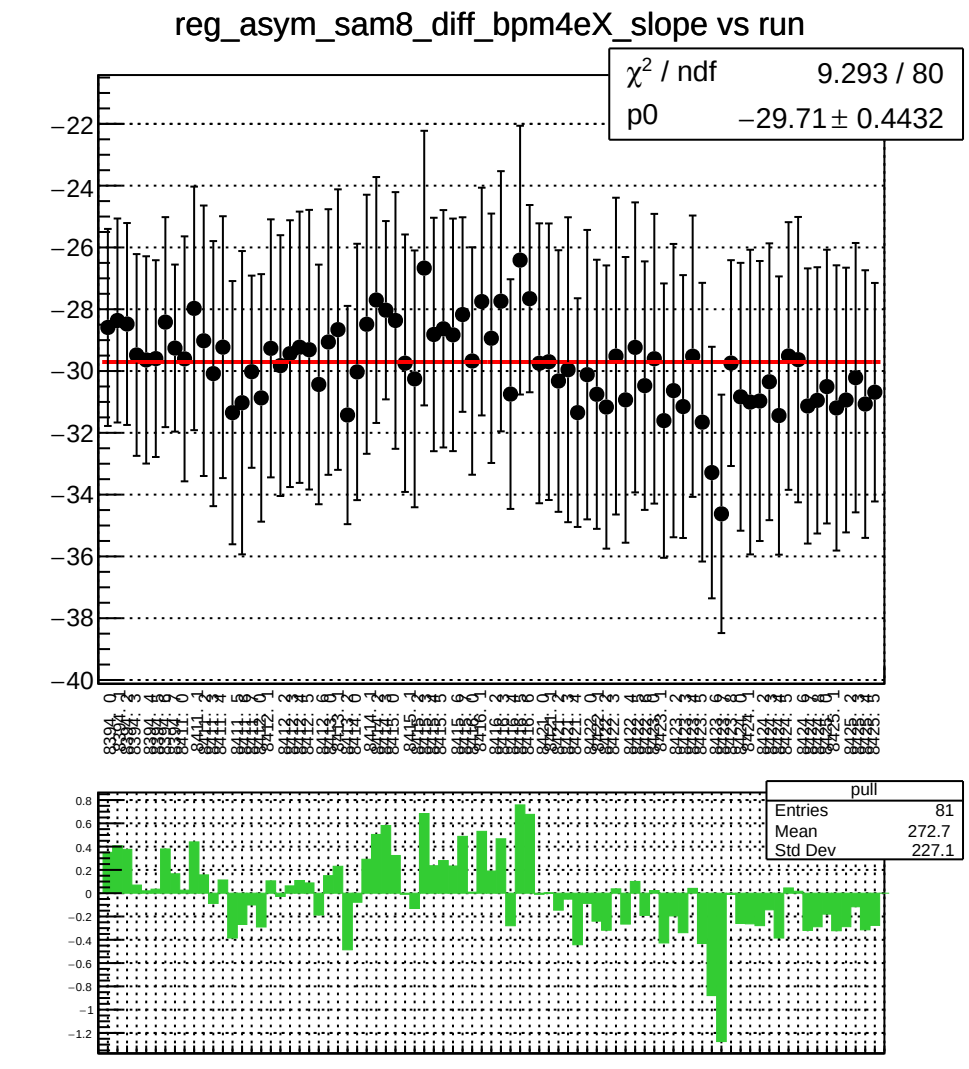

pull1D
Entries 81
Mean 0.01835
Std Dev 0.1942

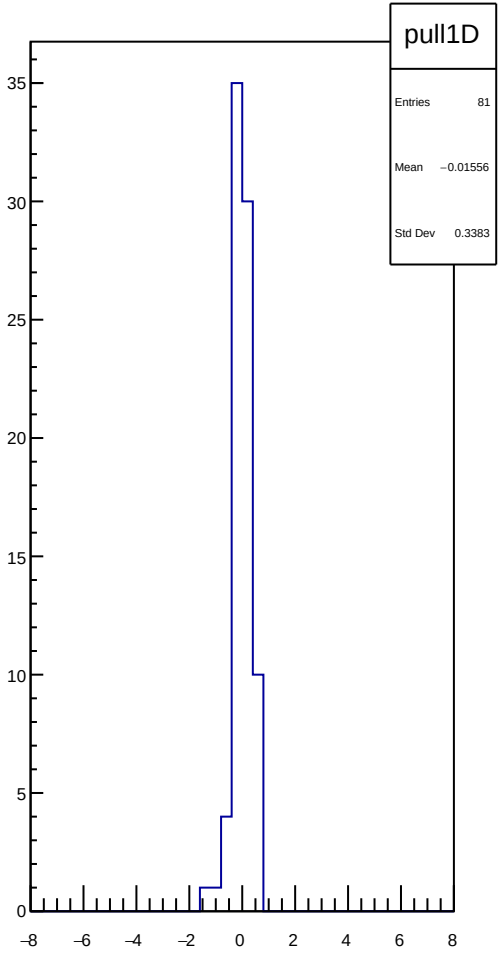

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 11.05 / 80
p0 14.41 ± 0.3998
pull
Entries 81
Mean 360.4
Std Dev 315.6

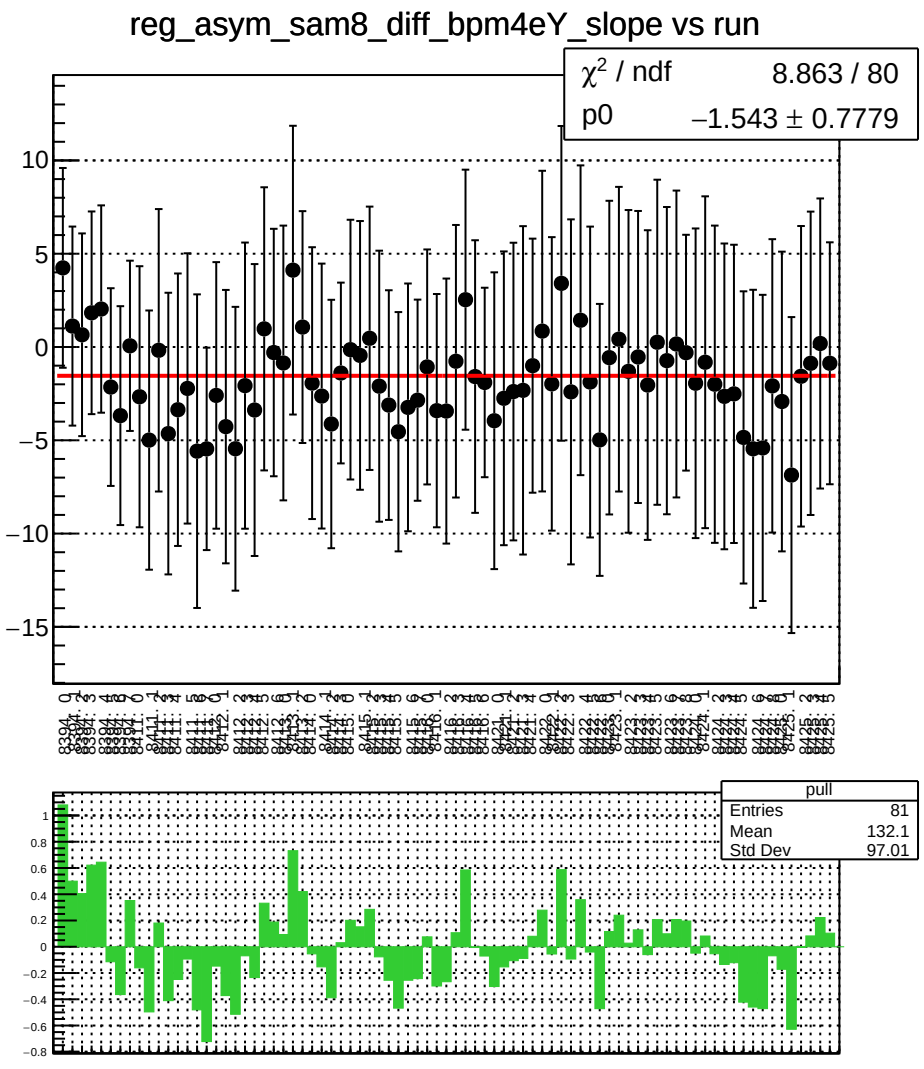

pull1D
Entries 81
Mean 0.01351
Std Dev 0.3691

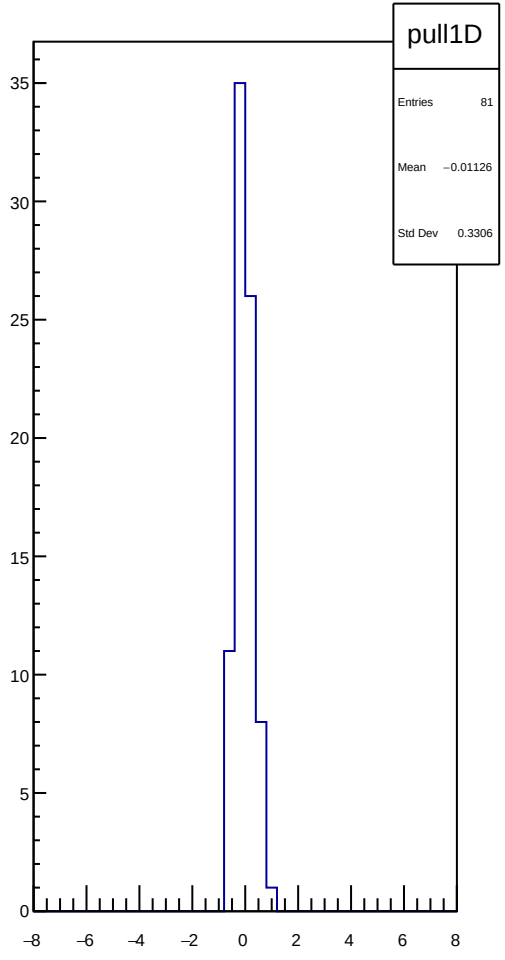

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 9.367 / 80
p0 −4.526 ± 0.7422
pull
Entries 81
Mean 128.8
Std Dev 95.04

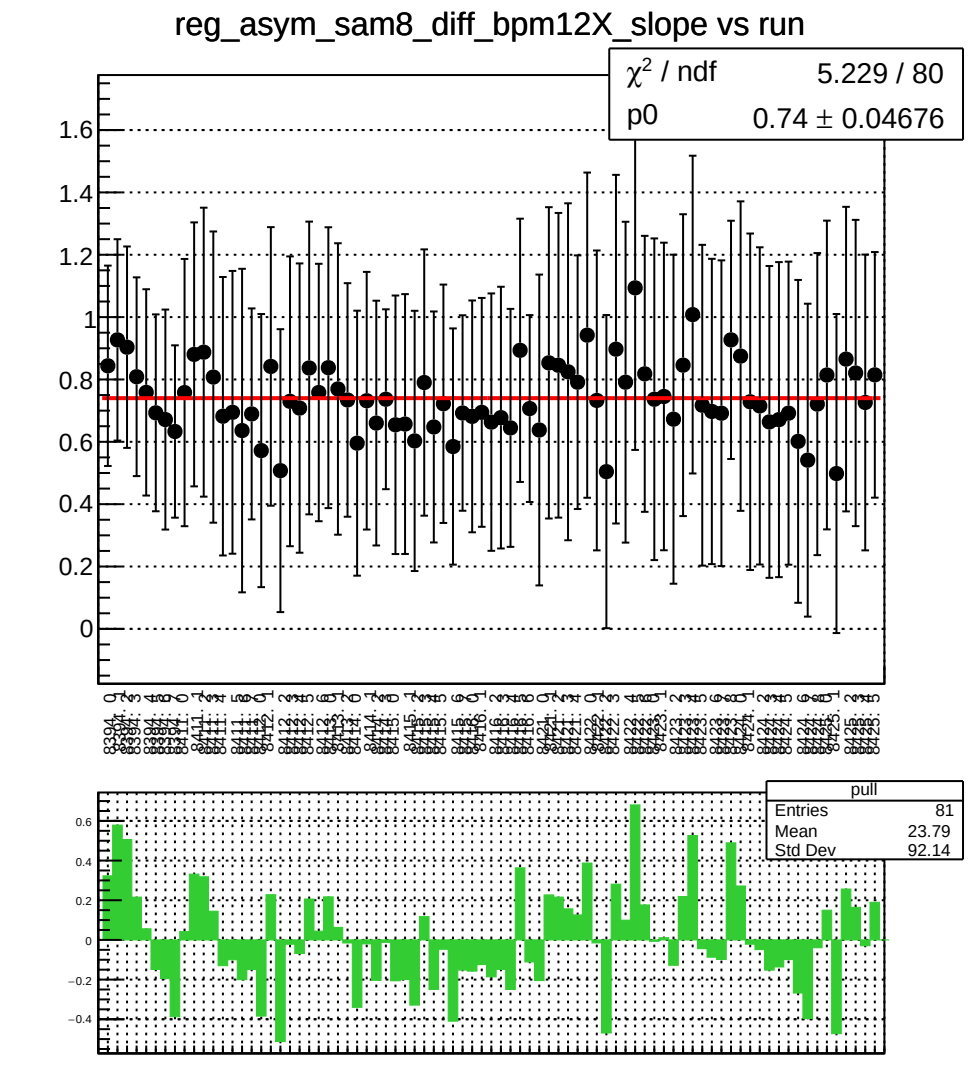

pull1D
Entries 81
Mean 0.01203
Std Dev 0.3398

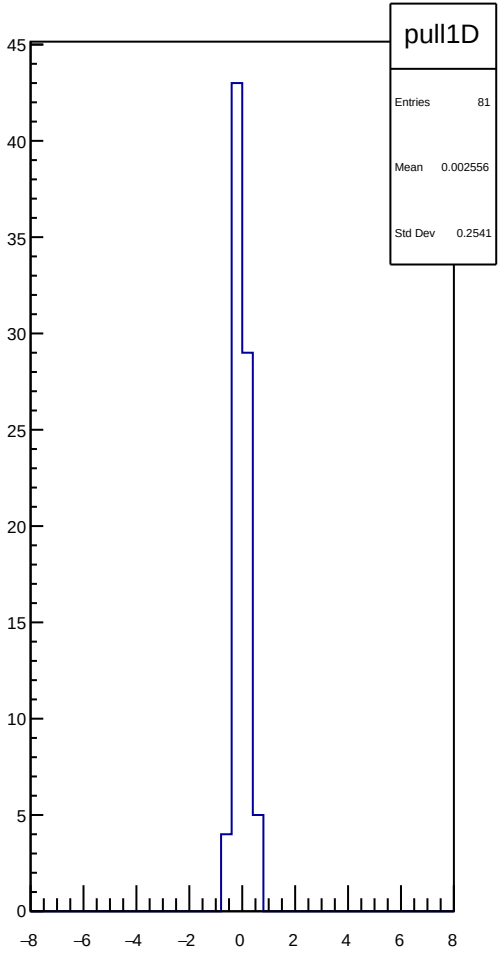

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 9.293 / 80
p0 −29.71 ± 0.4432
pull
Entries 81
Mean 272.7
Std Dev 227.1

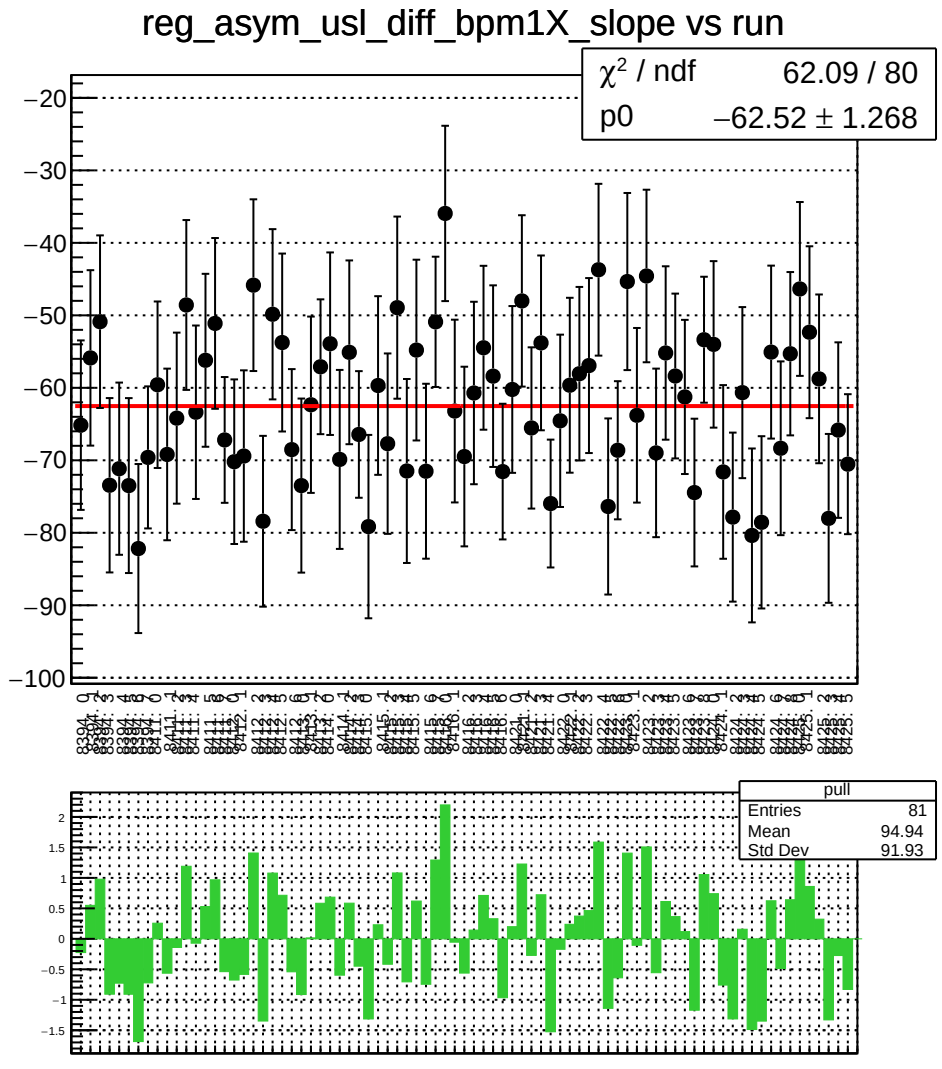

pull1D
Entries 81
Mean −0.01556
Std Dev 0.3383

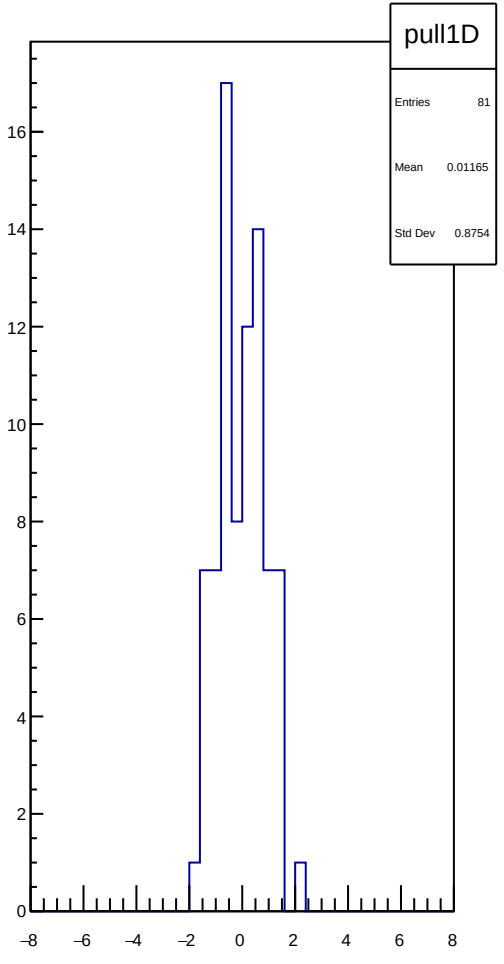

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 8.863 / 80
p0 −1.543 ± 0.7779
pull
Entries 81
Mean 132.1
Std Dev 97.01

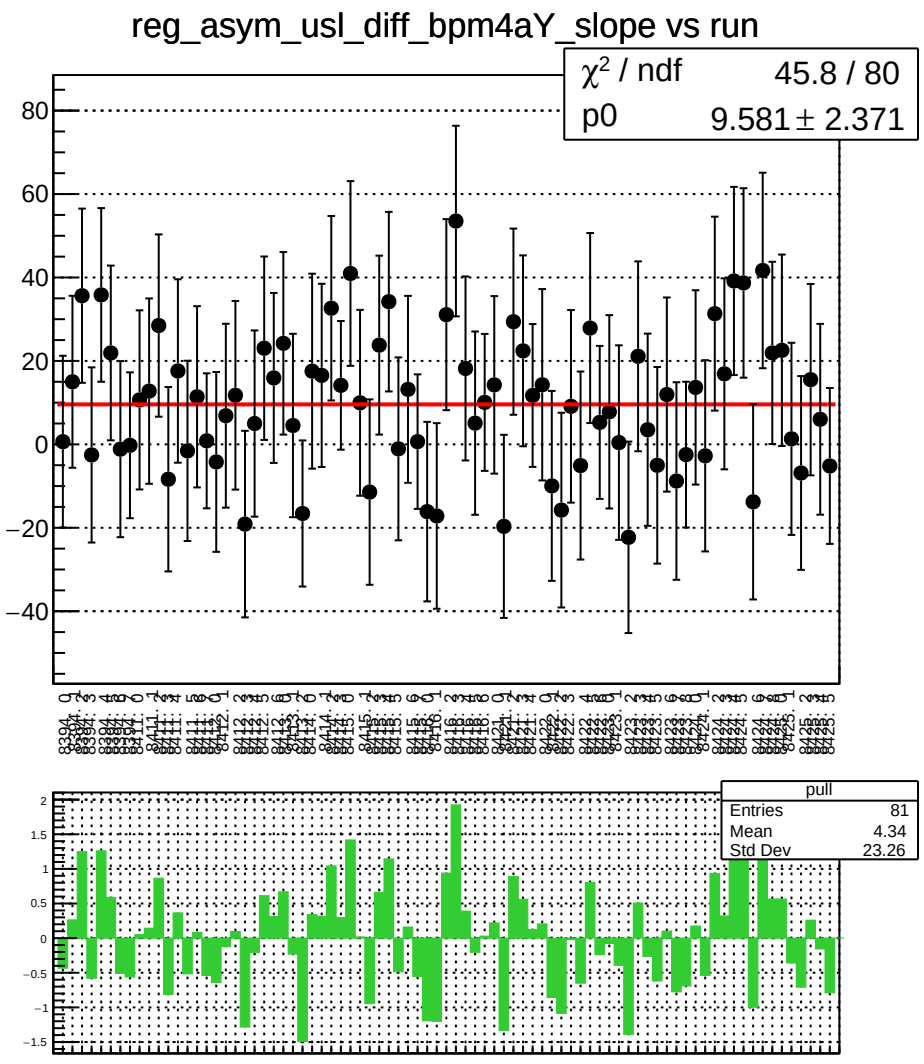

pull1D
Entries 81
Mean −0.01126
Std Dev 0.3306

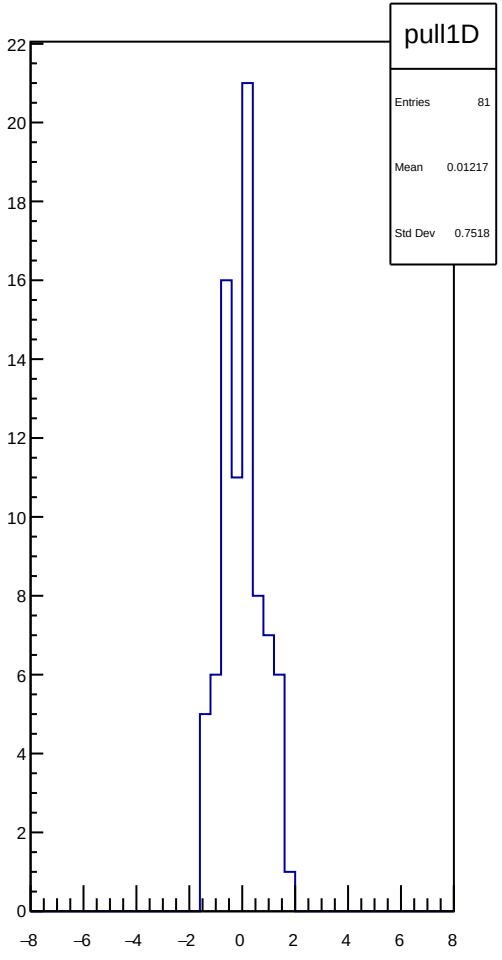

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 5.229 / 80
p0 0.74 ± 0.04676
pull
Entries 81
Mean 23.79
Std Dev 92.14

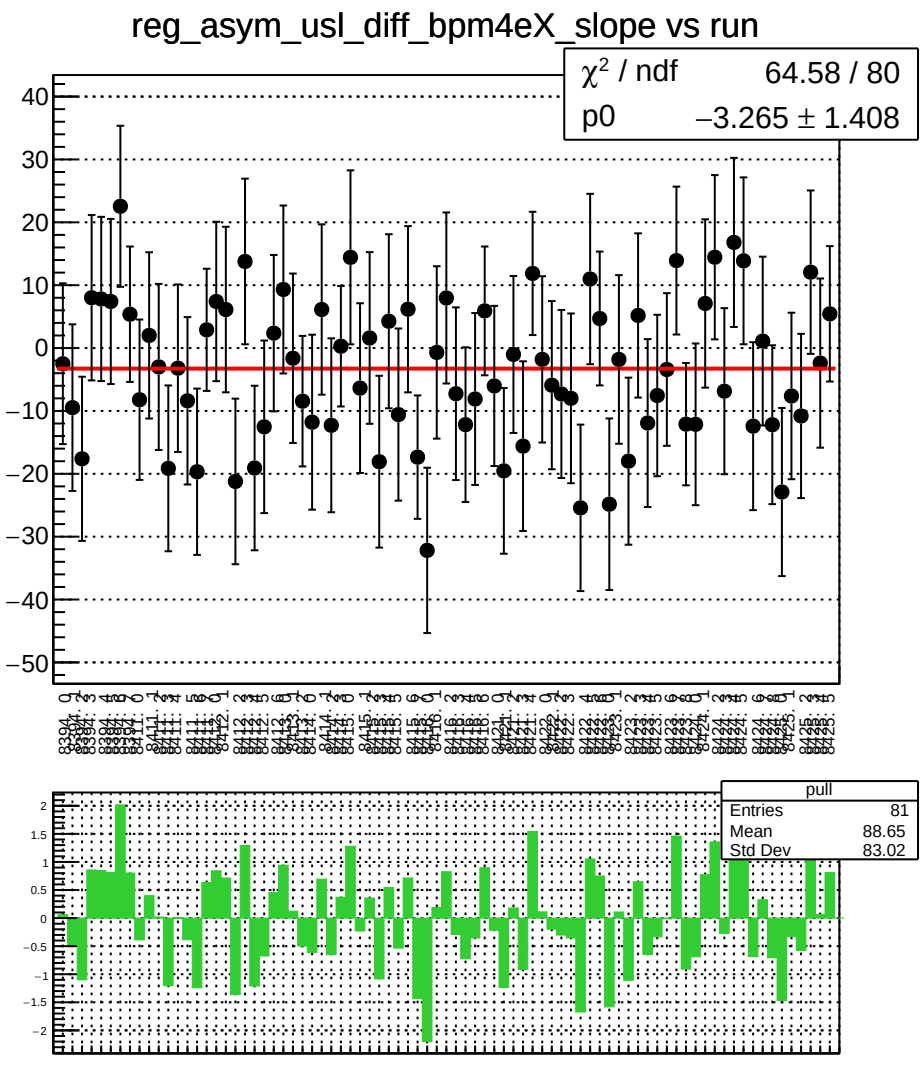

pull1D
Entries 81
Mean 0.002556
Std Dev 0.2541

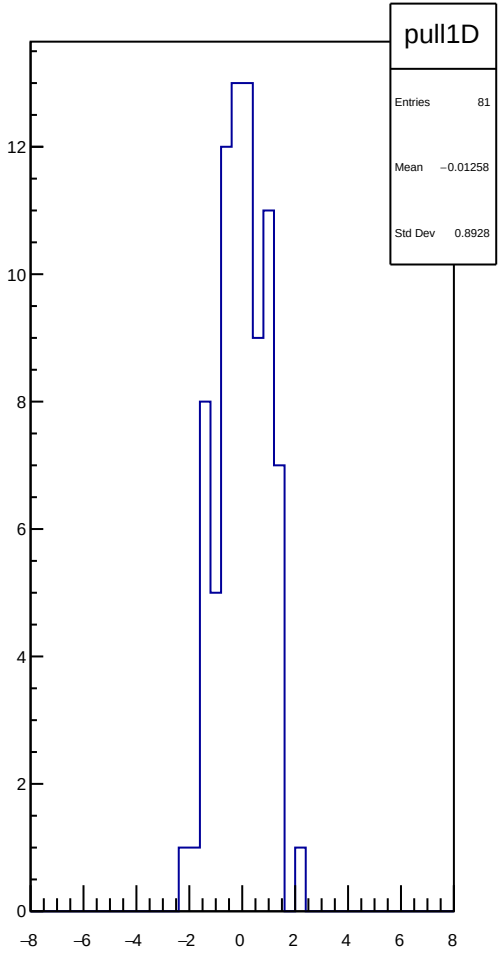

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 62.09 / 80
p0 −62.52 ± 1.268
pull
Entries 81
Mean 94.94
Std Dev 91.93

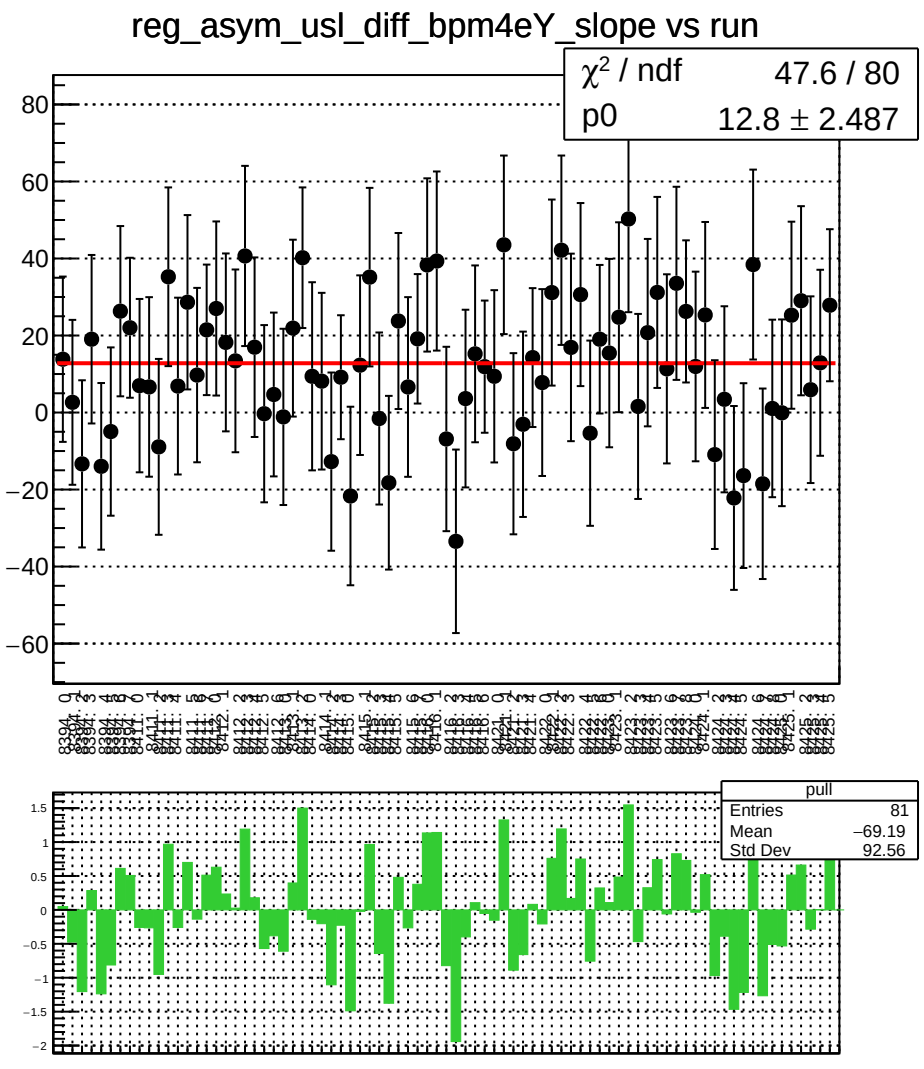

pull1D
Entries 81
Mean 0.01165
Std Dev 0.8754

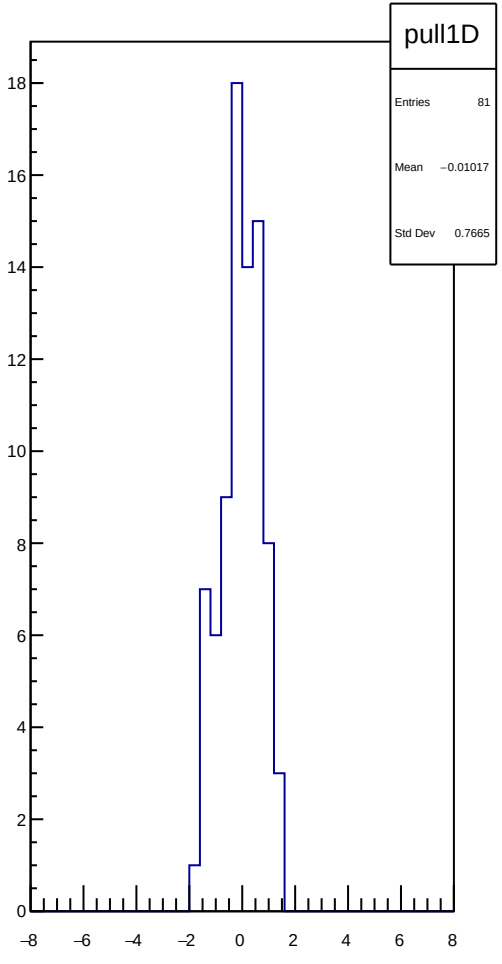

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 45.8 / 80
p0 9.581 ± 2.371
pull
Entries 81
Mean 4.34
Std Dev 23.26

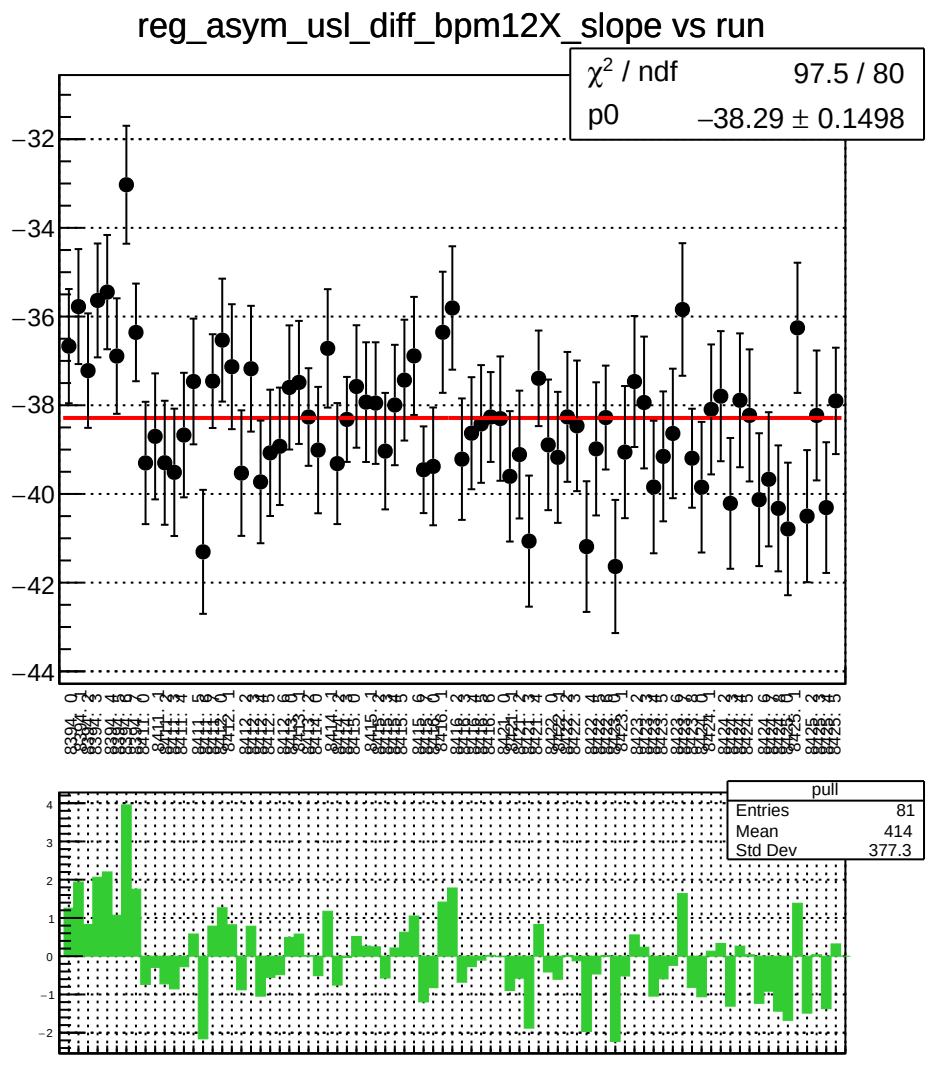

pull1D
Entries 81
Mean 0.01217
Std Dev 0.7518

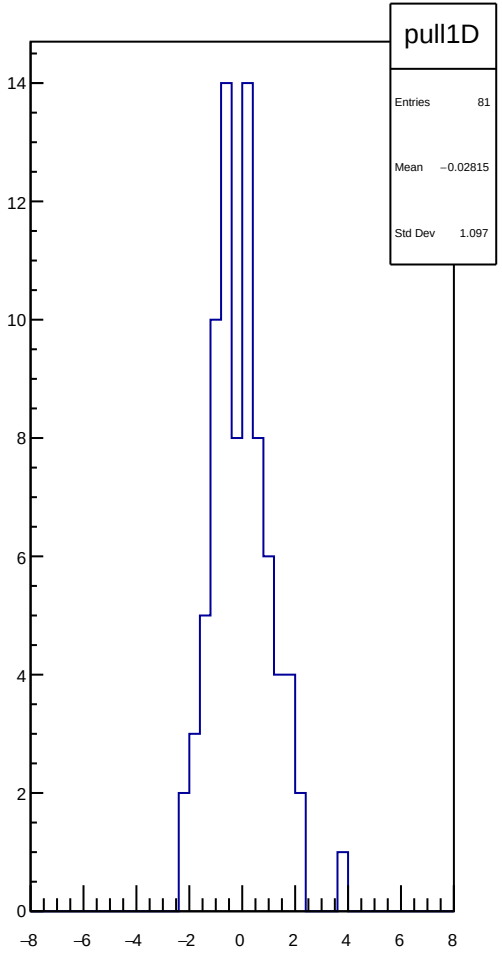

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 64.58 / 80
p0 −3.265 ± 1.408
pull
Entries 81
Mean 88.65
Std Dev 83.02

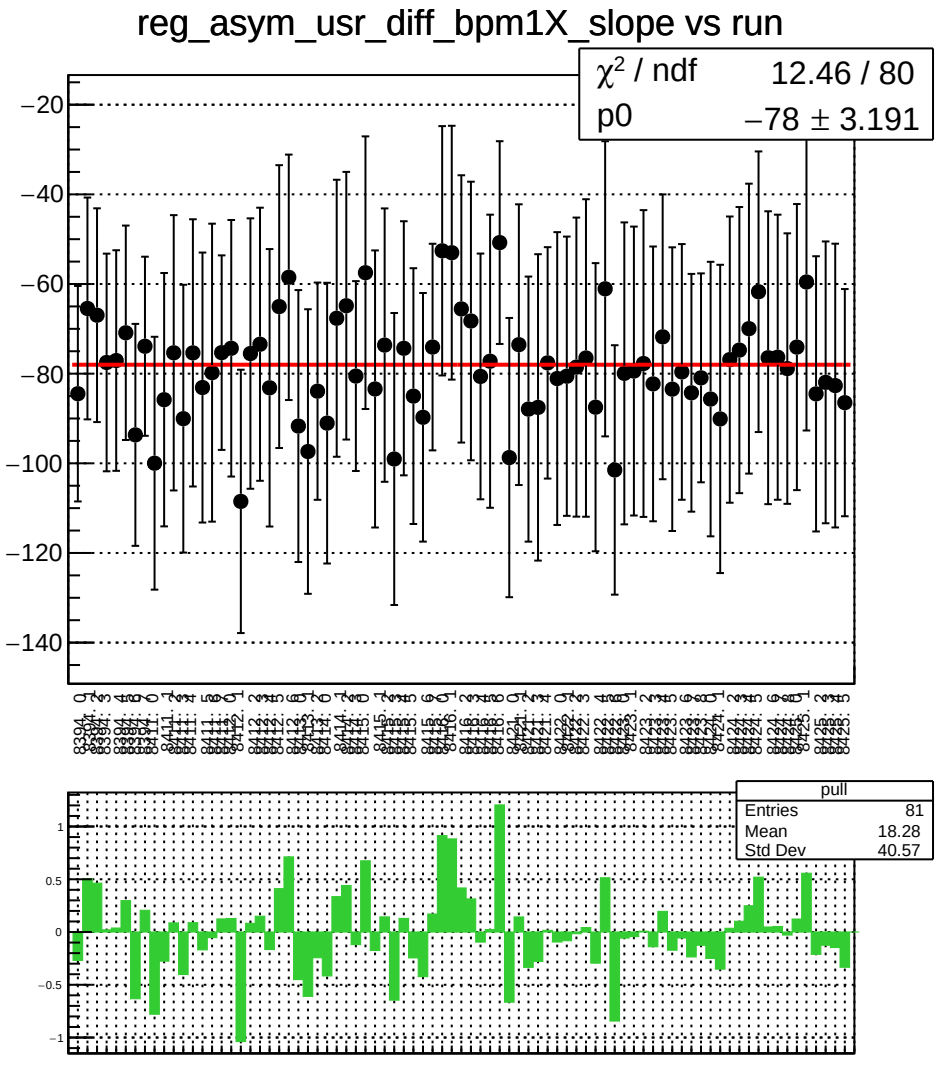

pull1D
Entries 81
Mean −0.01258
Std Dev 0.8928

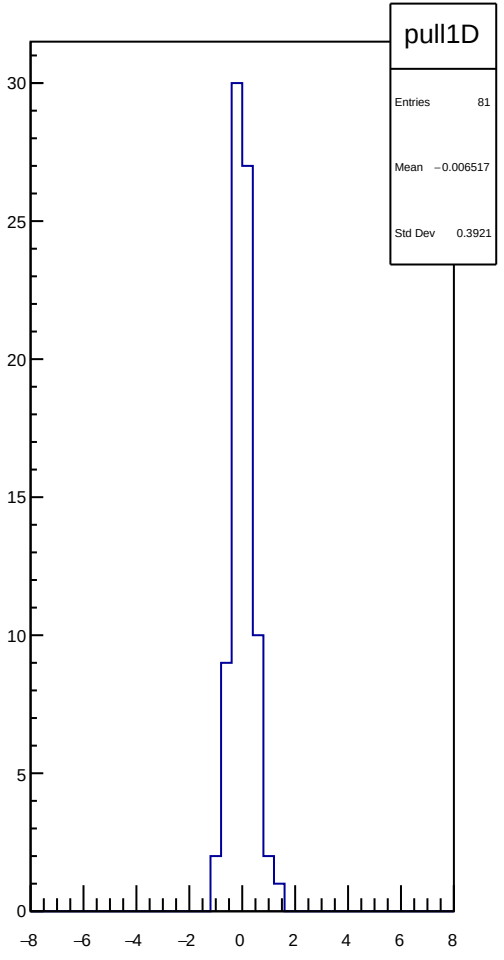

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 47.6 / 80
p0 12.8 ± 2.487
pull
Entries 81
Mean −69.19
Std Dev 92.56

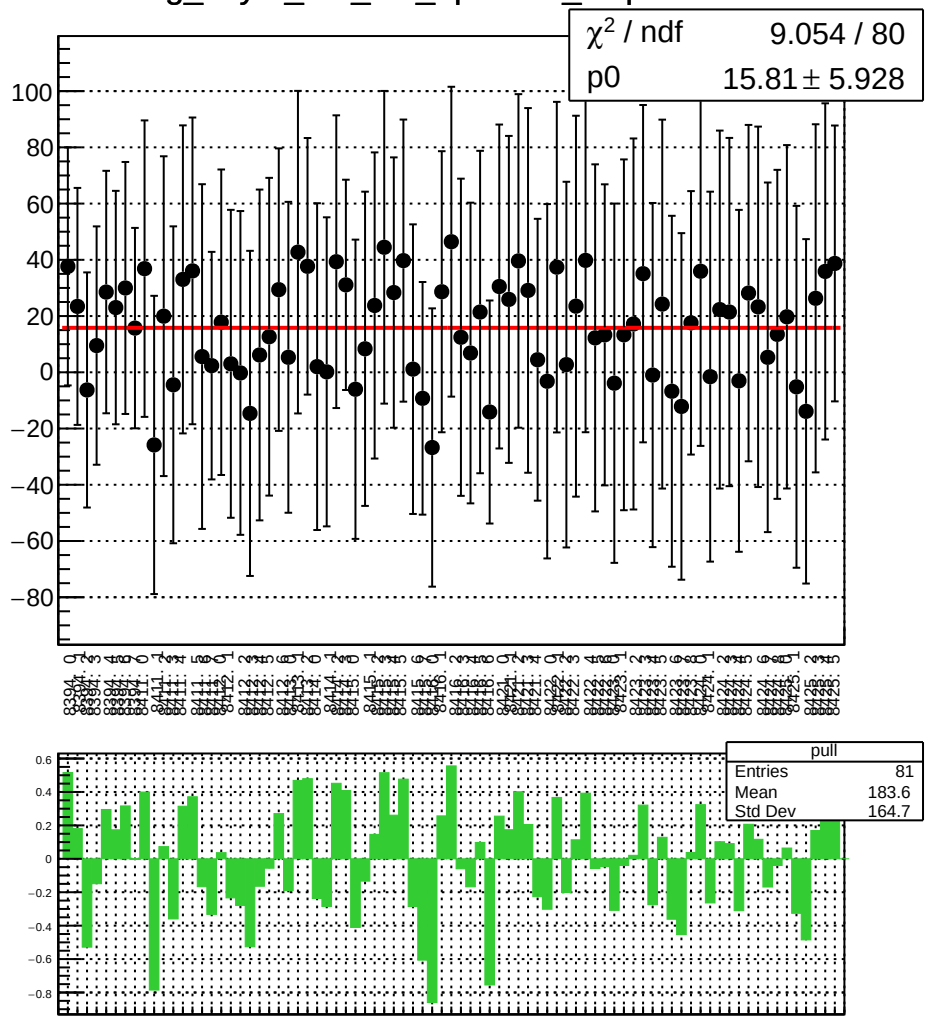

pull1D
Entries 81
Mean −0.01017
Std Dev 0.7665

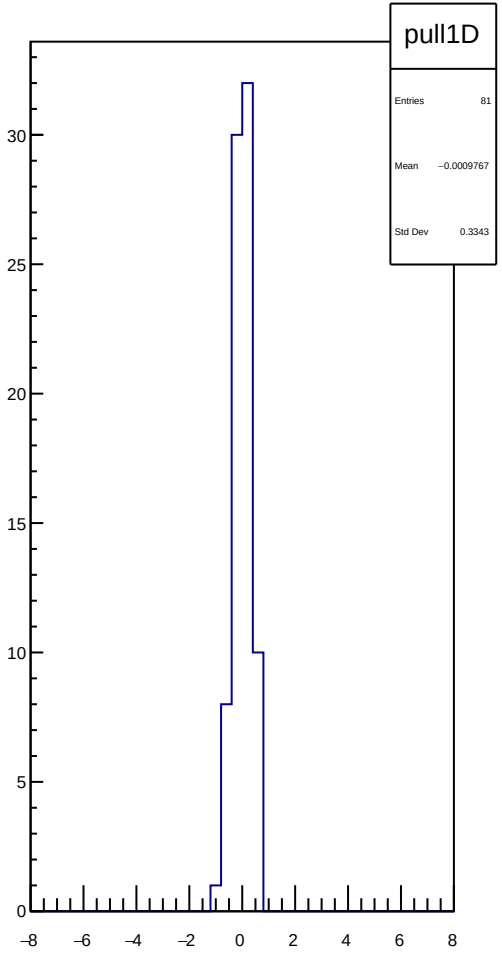

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 97.5 / 80
p0 −38.29 ± 0.1498
pull
Entries 81
Mean 414
Std Dev 377.3

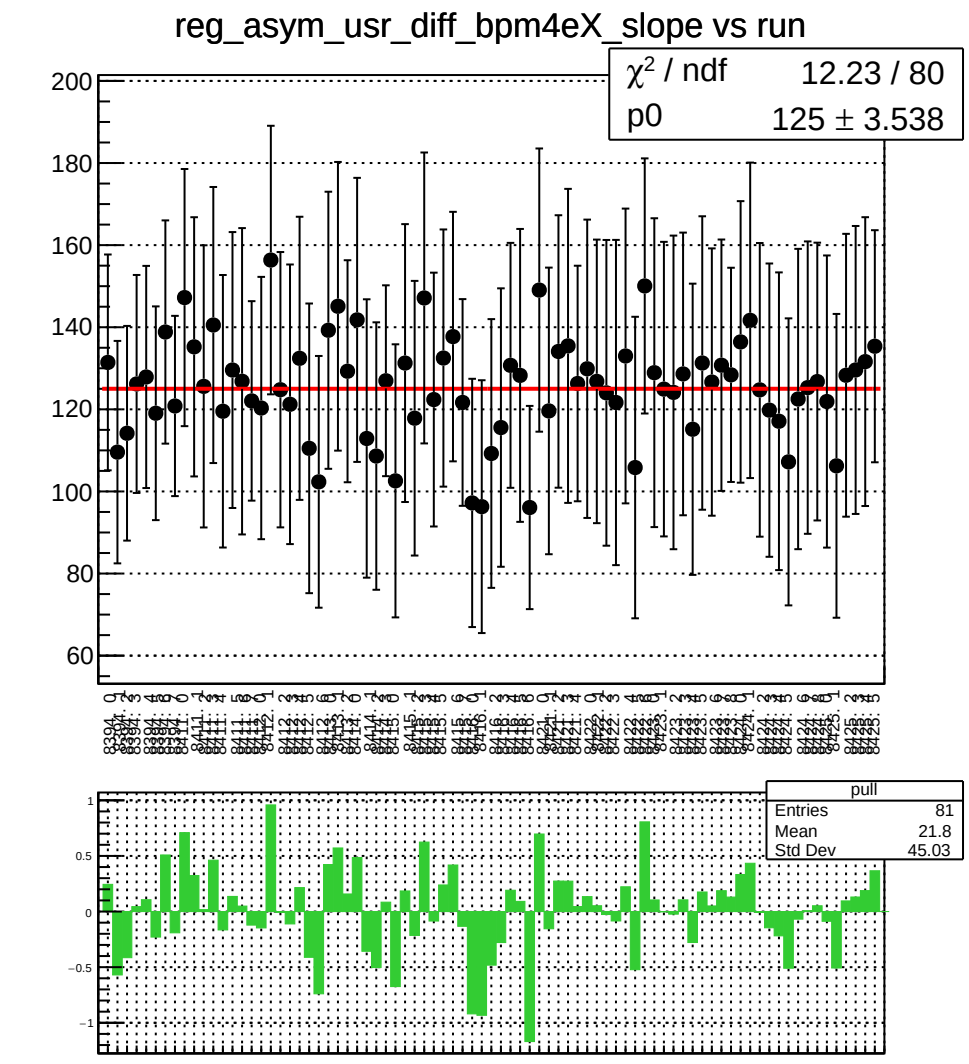

pull1D
Entries 81
Mean −0.02815
Std Dev 1.097

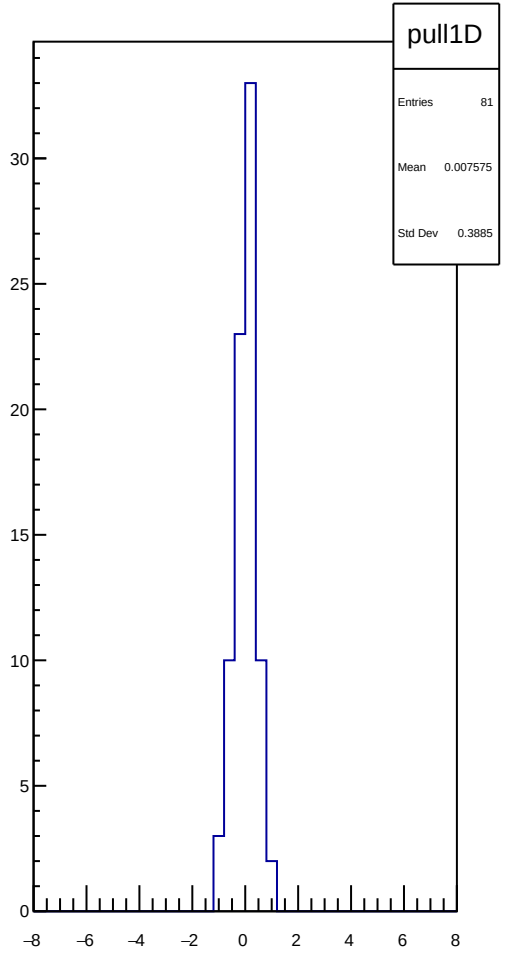

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 12.46 / 80
p0 −78 ± 3.191
−20
−40
−60
−80
−100
−120
−140
pull
Entries 81
Mean 18.28
Std Dev 40.57
1
0.5
0
−0.5
−1

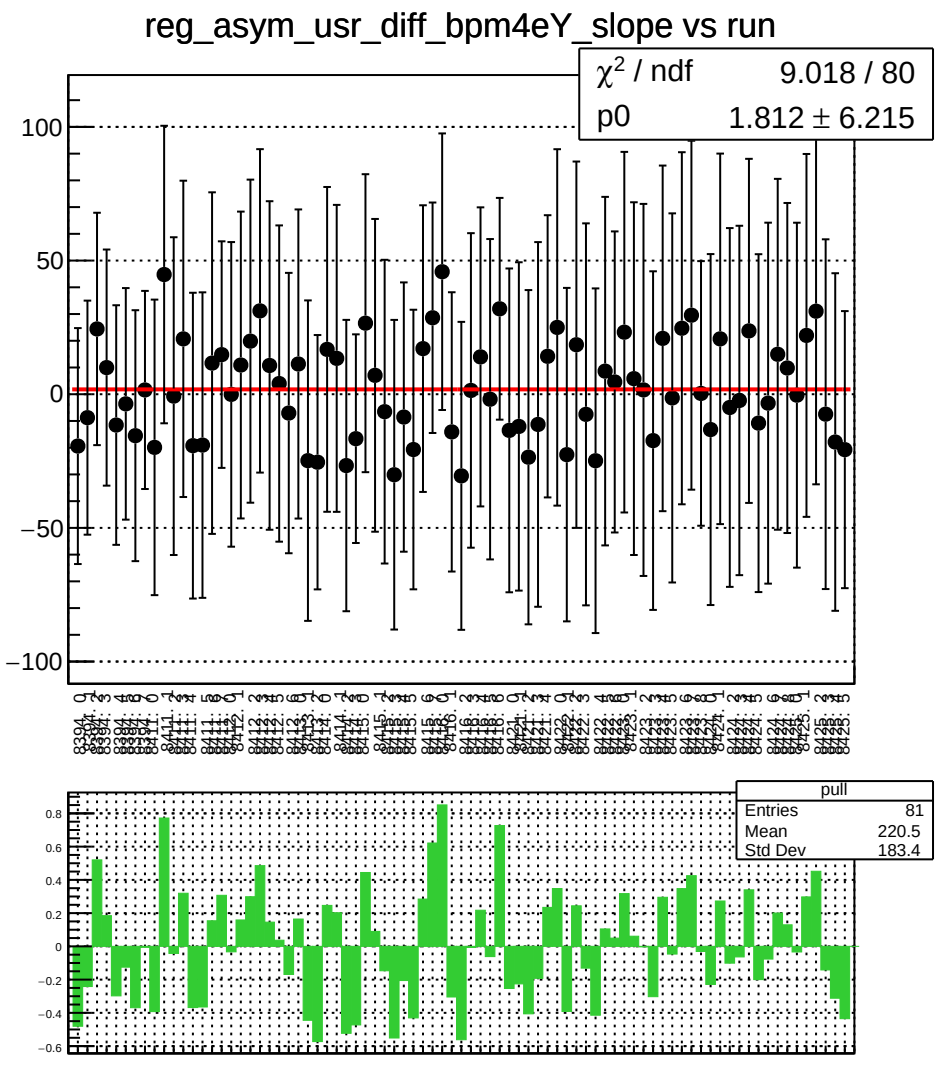

pull1D
Entries 81
Mean −0.006517
Std Dev 0.3921
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

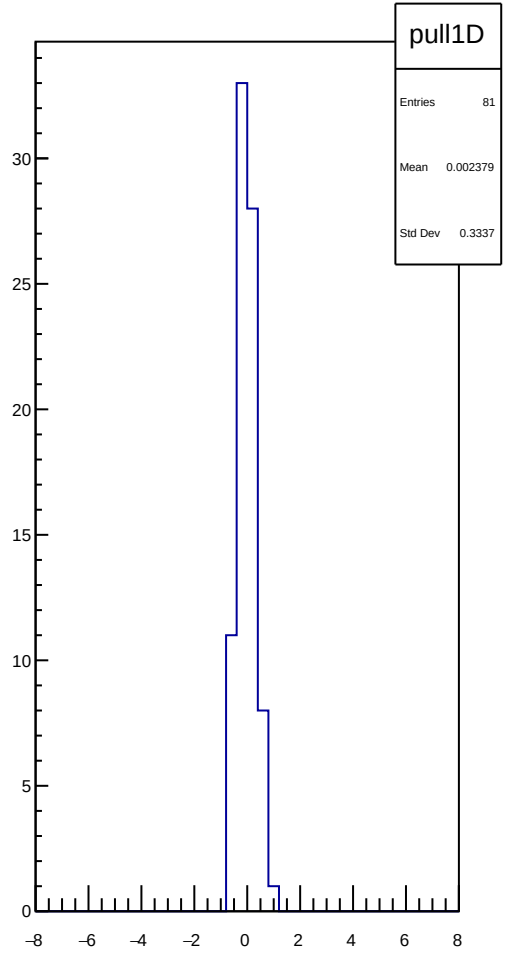

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 9.054 / 80
p0 15.81 ± 5.928
pull
Entries 81
Mean 183.6
Std Dev 164.7

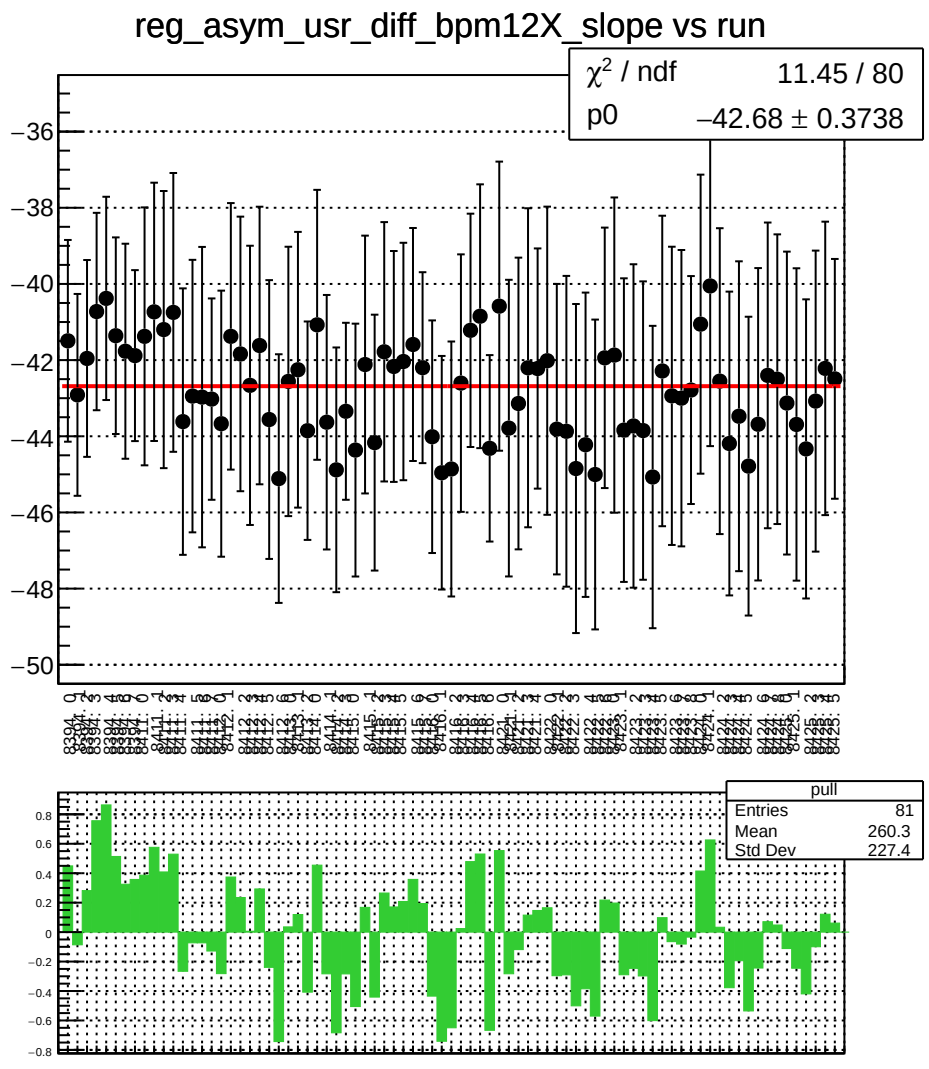

pull1D
Entries 81
Mean −0.0009767
Std Dev 0.3343

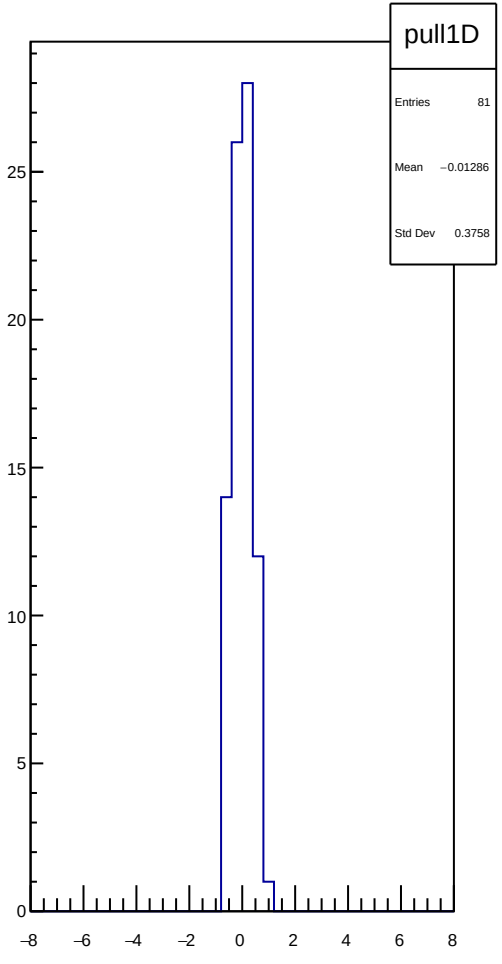

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 12.23 / 80
p0 125 ± 3.538
pull
Entries 81
Mean 21.8
Std Dev 45.03

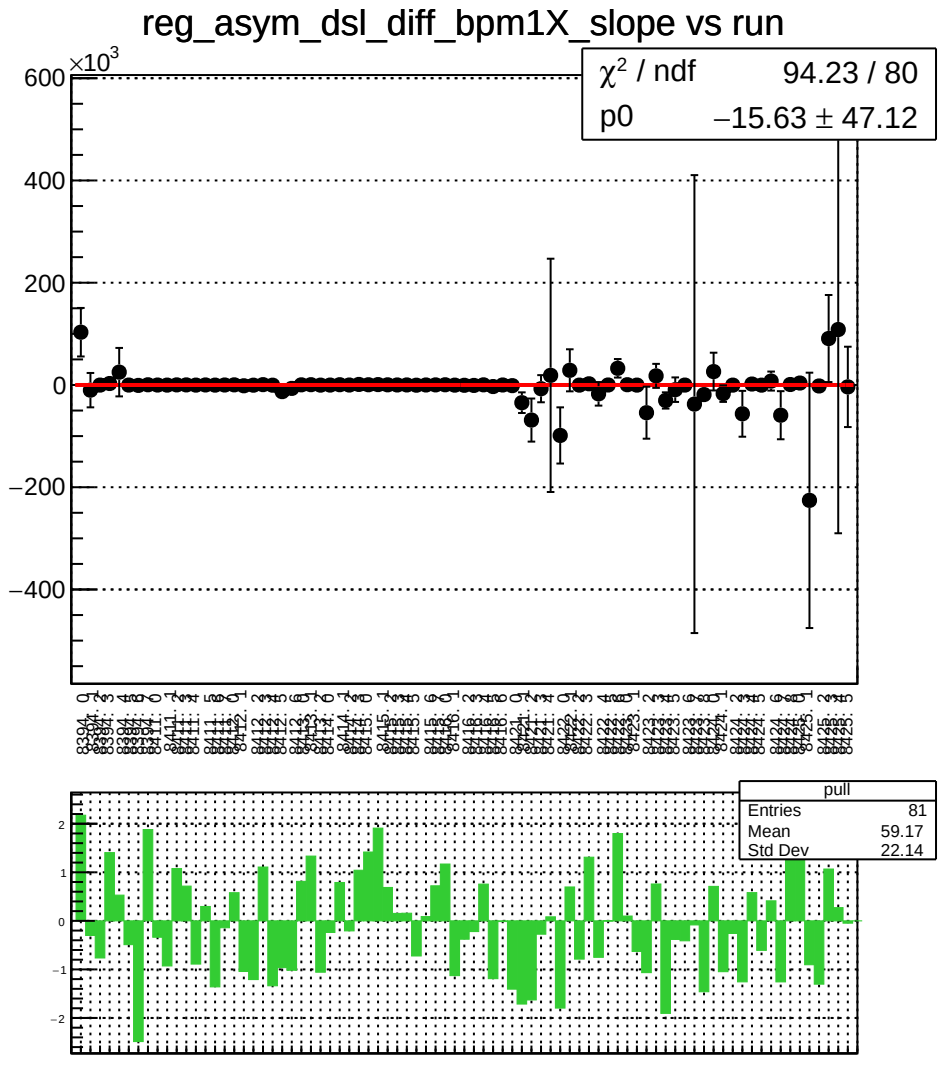

pull1D
Entries 81
Mean 0.007575
Std Dev 0.3885

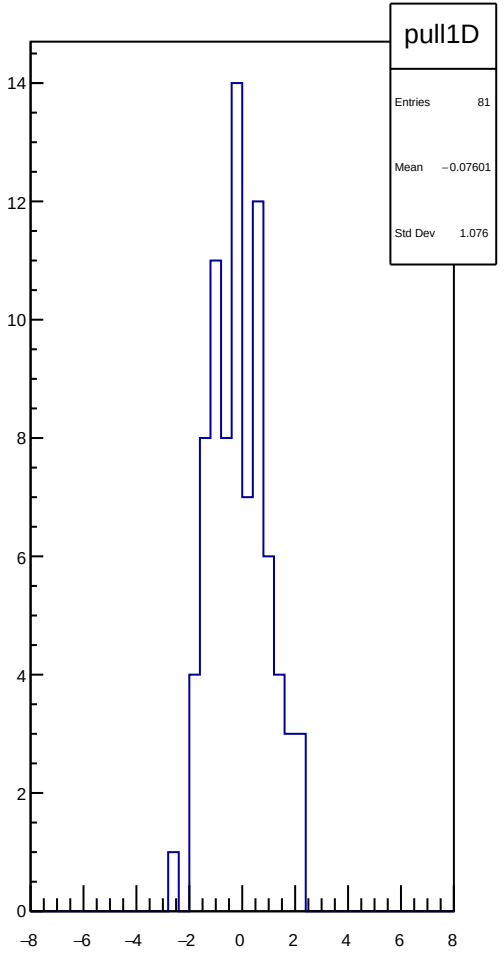

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 9.018 / 80
p0 1.812 ± 6.215
100
50
0
−50
−100
pull
Entries 81
Mean 220.5
Std Dev 183.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

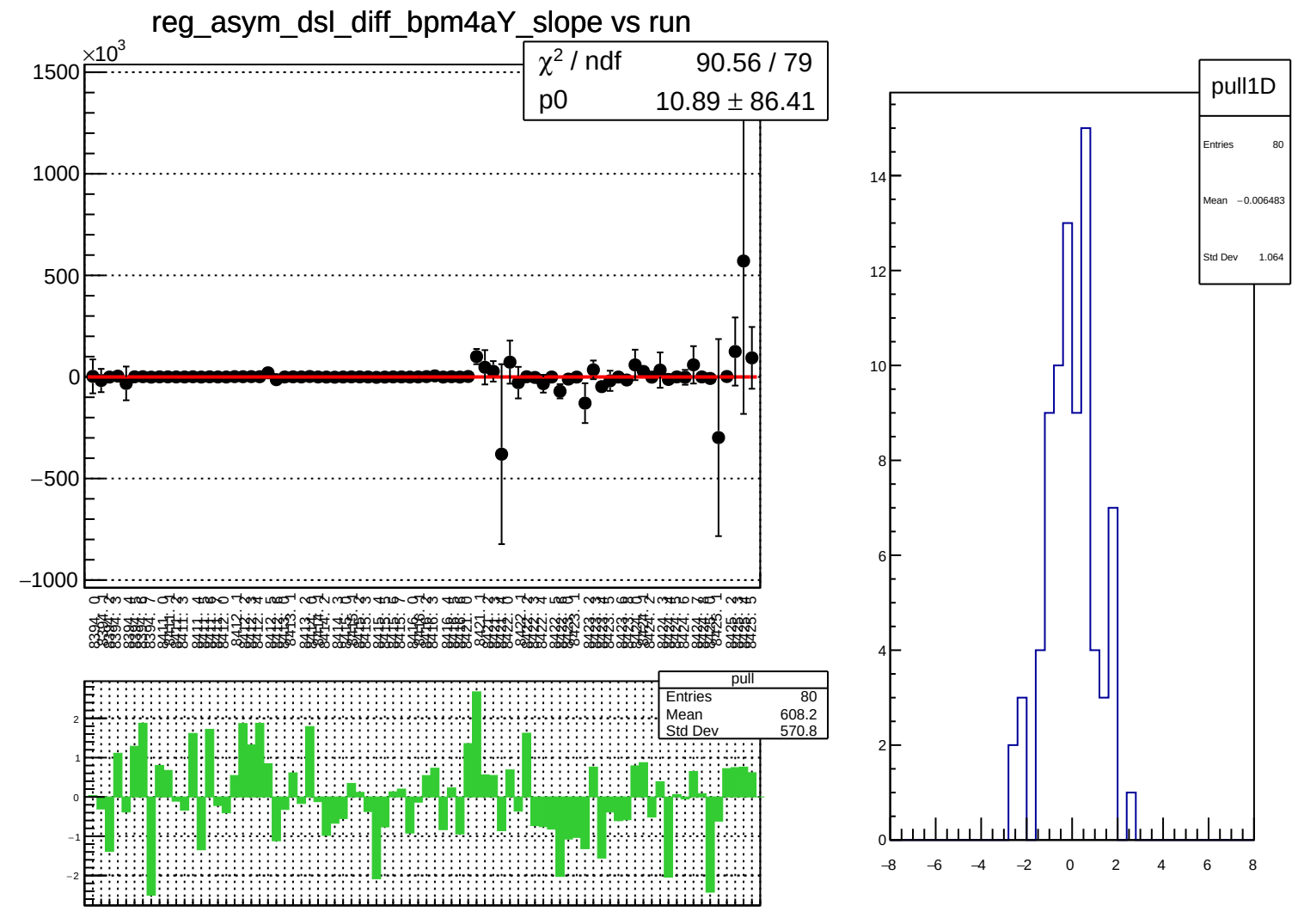

pull1D
Entries 81
Mean 0.002379
Std Dev 0.3337
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

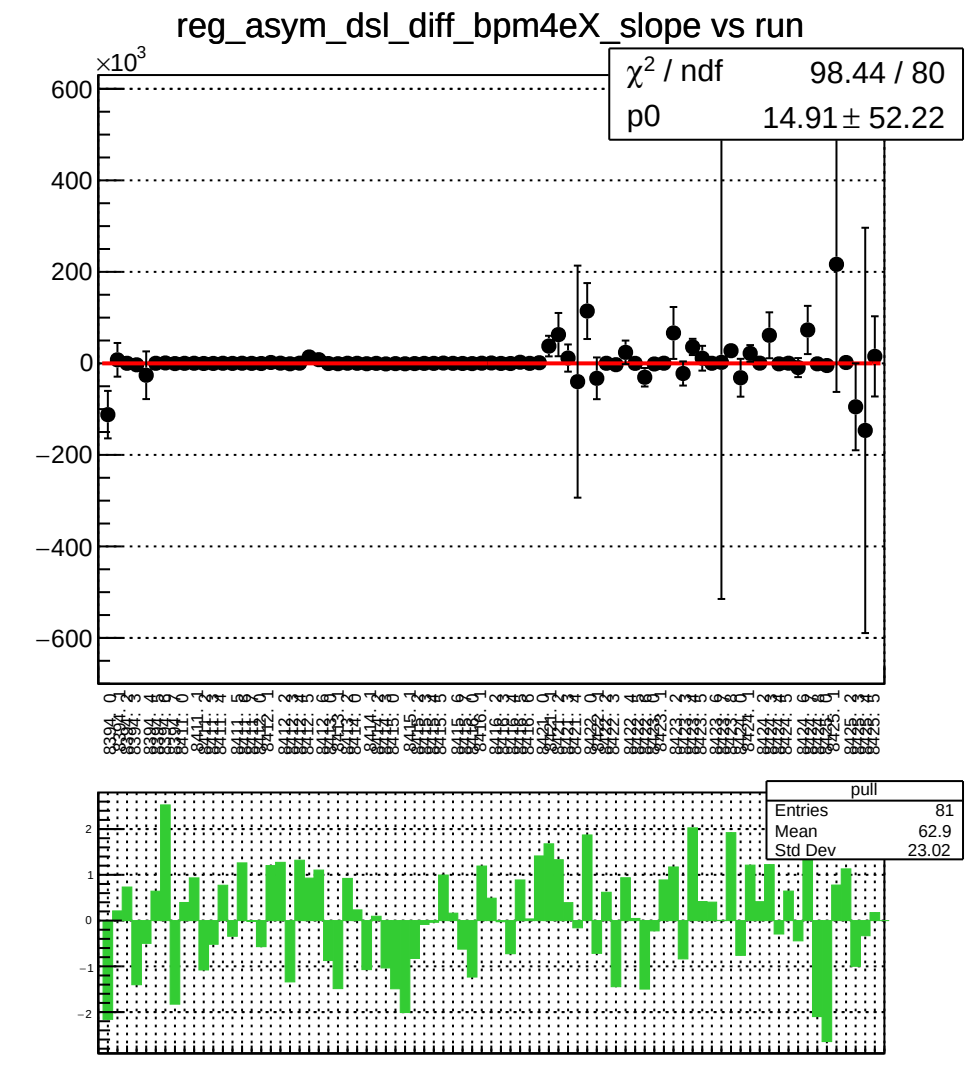

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 11.45 / 80
p0 −42.68 ± 0.3738
pull
Entries 81
Mean 260.3
Std Dev 227.4

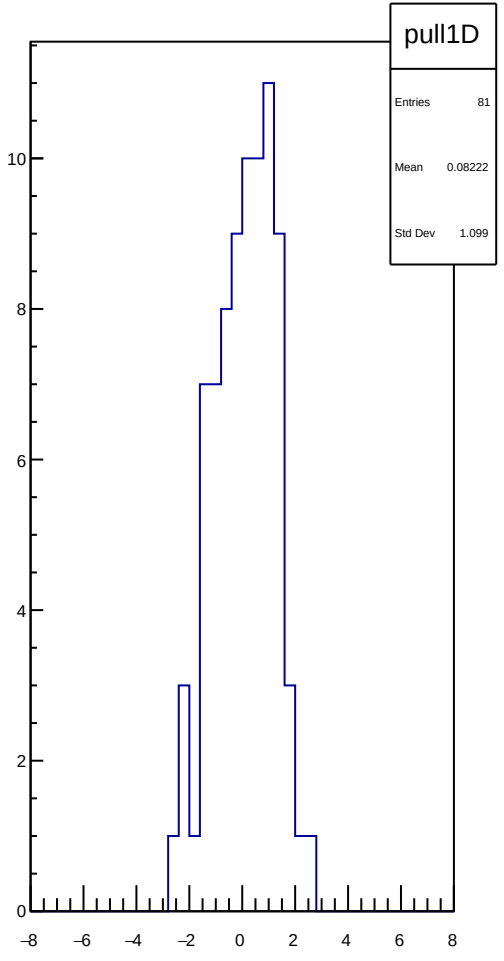

pull1D
Entries 81
Mean −0.01286
Std Dev 0.3758

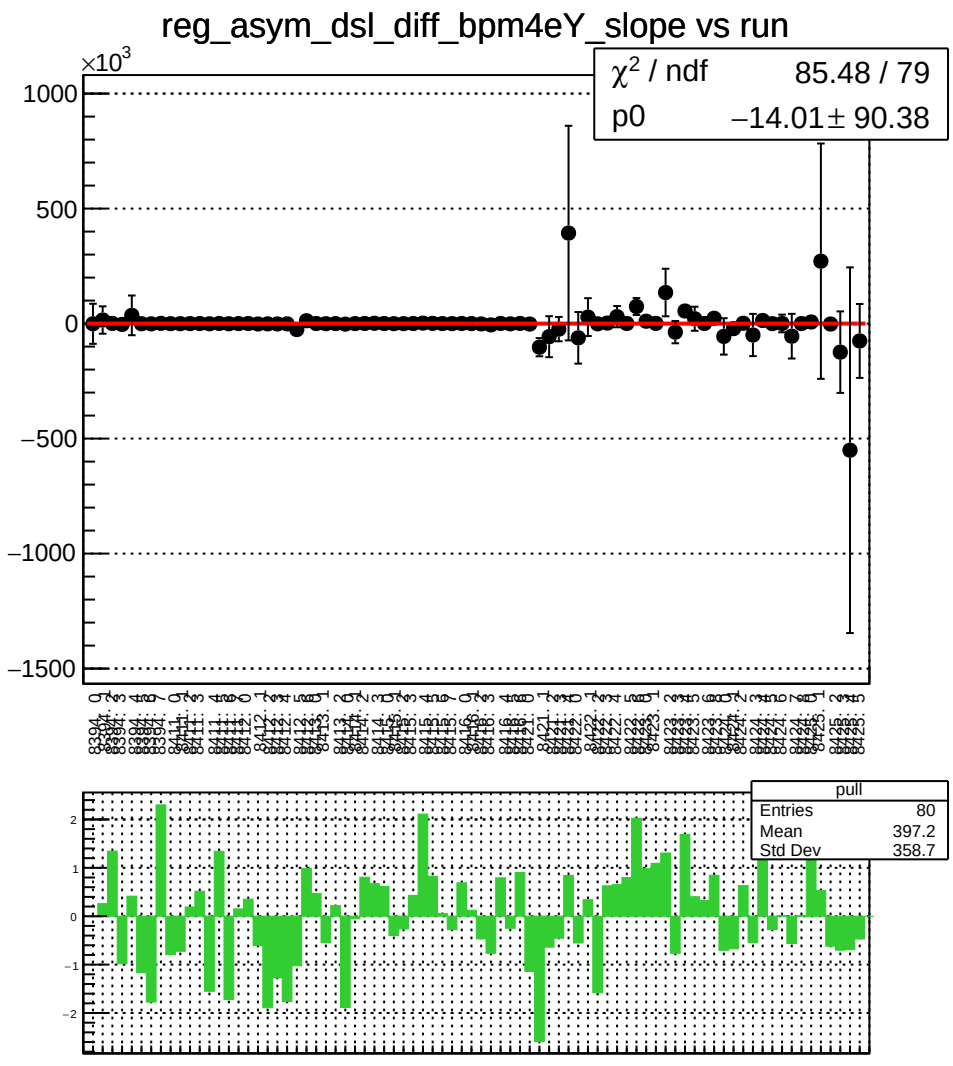

reg_asym_dsl_diff_bpm1X_slope vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 94.23 / 80
p0 −15.63 ± 47.12
pull
Entries 81
Mean 59.17
Std Dev 22.14
2
1
0
−1
−2

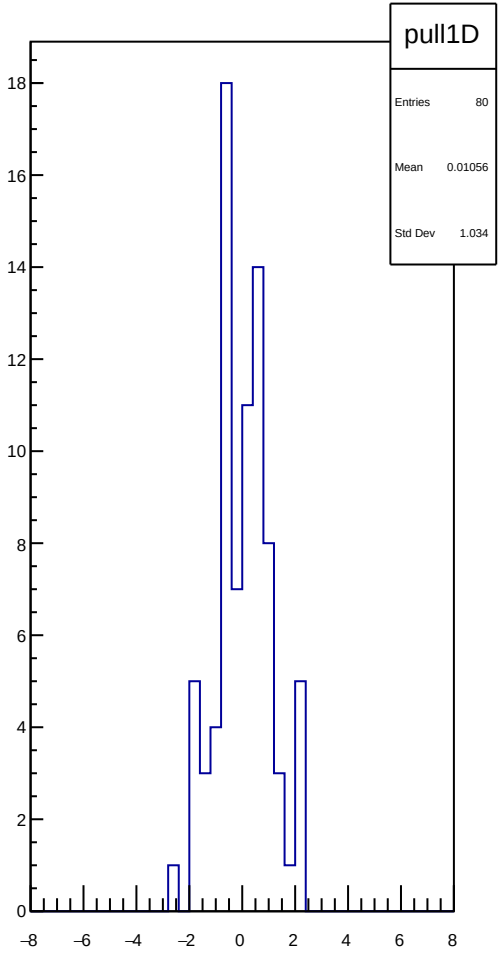

pull1D
Entries 81
Mean −0.07601
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

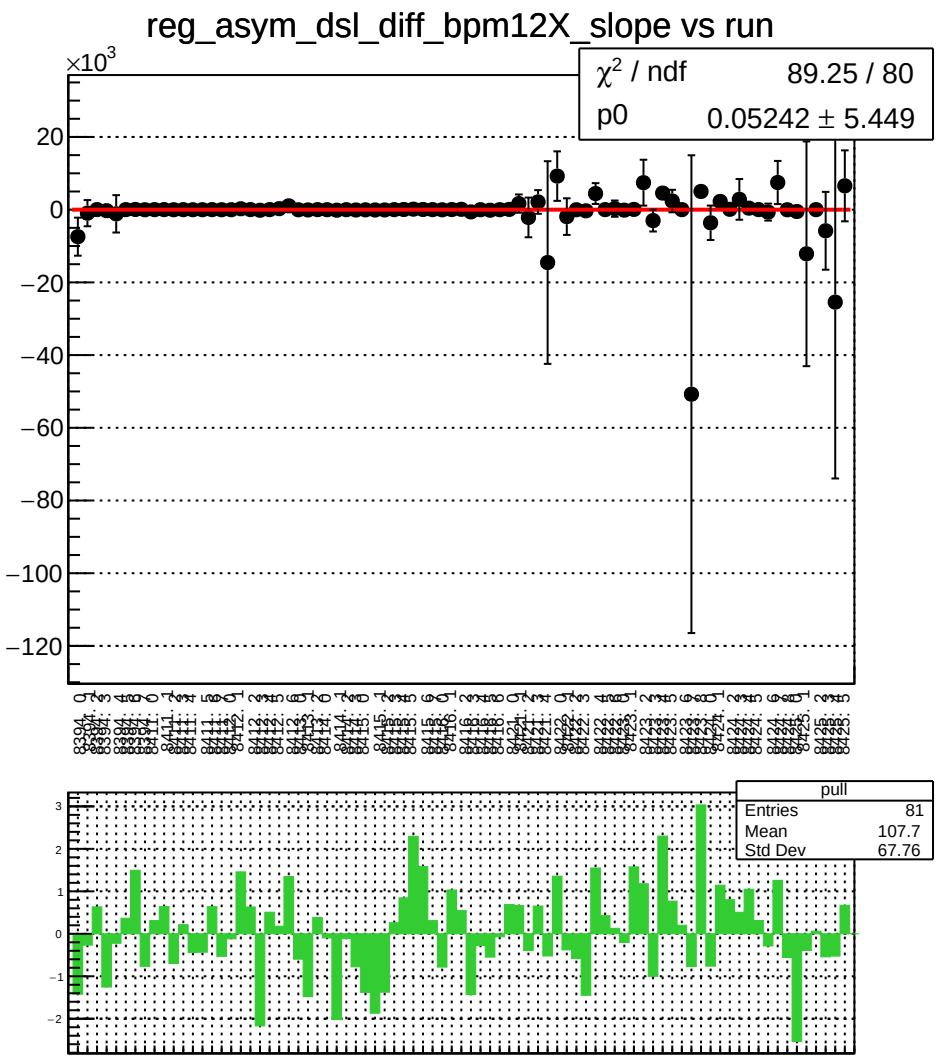

reg_asym_dsl_diff_bpm4aY_slope vs run
×10^3
1500
1000
500
0
−500
−1000
χ² / ndf 90.56 / 79
p0 10.89 ± 86.41
pull
Entries 80
Mean 608.2
Std Dev 570.8
2
1
0
−1
−2
pull1D
Entries 80
Mean −0.006483
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

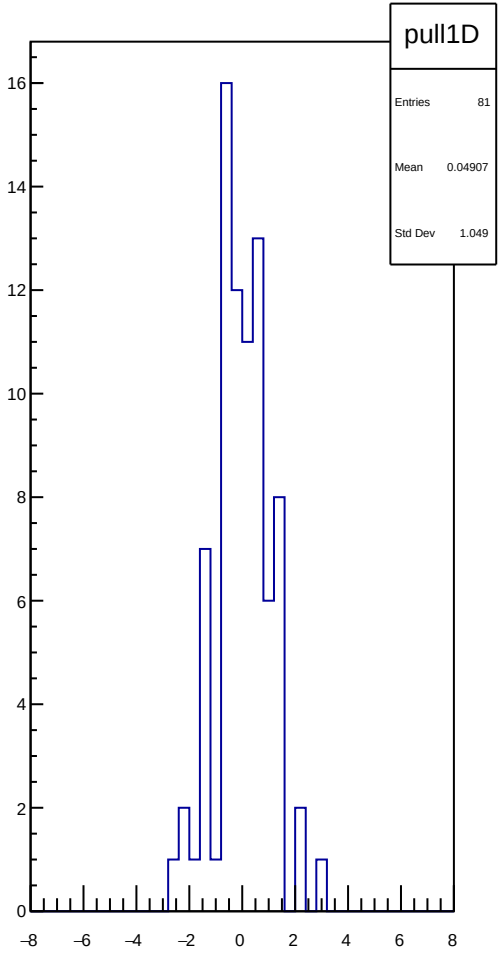

reg_asym_dsl_diff_bpm4eX_slope vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 98.44 / 80
p0 14.91 ± 52.22
pull
Entries 81
Mean 62.9
Std Dev 23.02
2
1
0
−1
−2

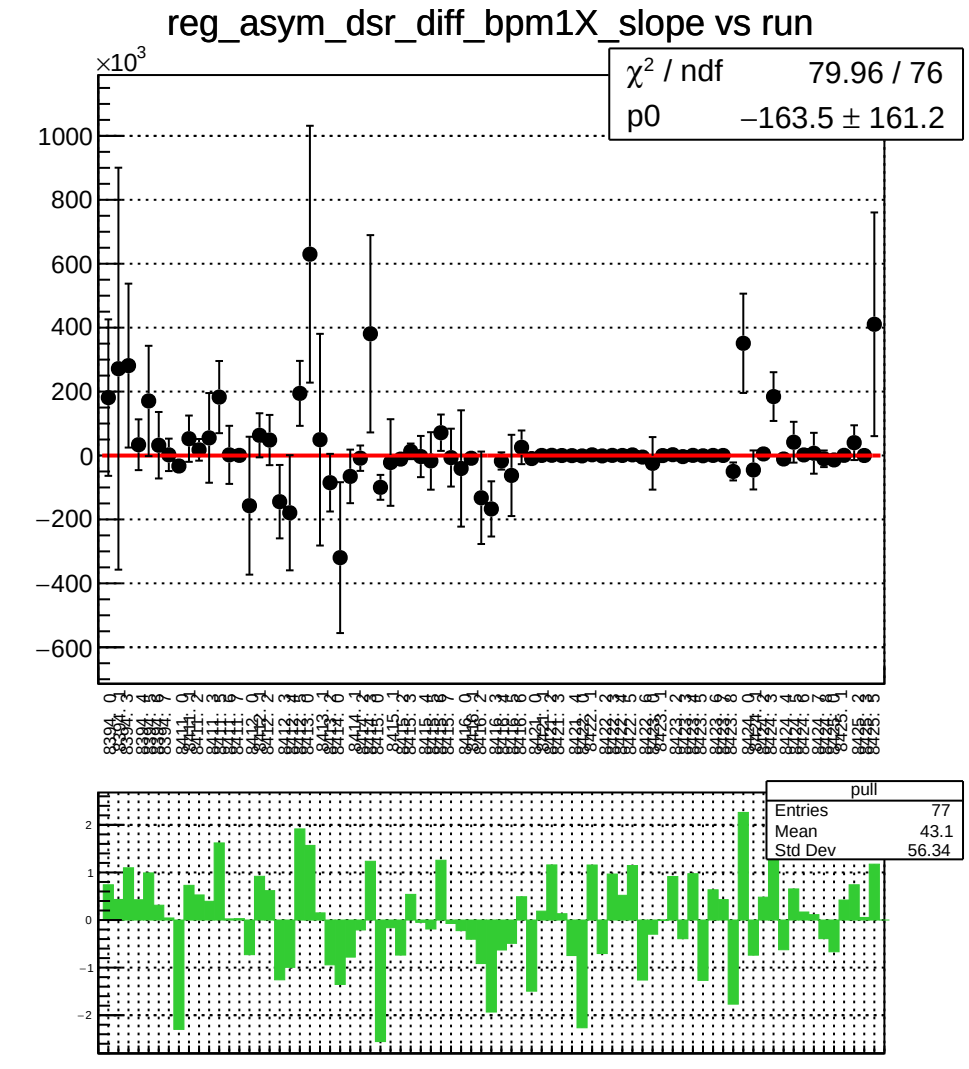

pull1D
Entries 81
Mean 0.08222
Std Dev 1.099
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

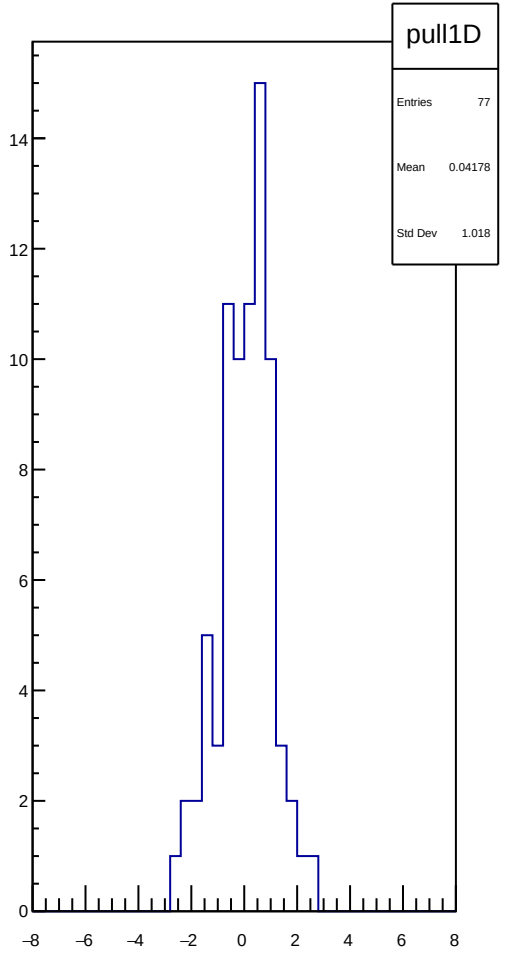

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 85.48 / 79
p0 −14.01± 90.38
×10³
pull
Entries 80
Mean 397.2
Std Dev 358.7

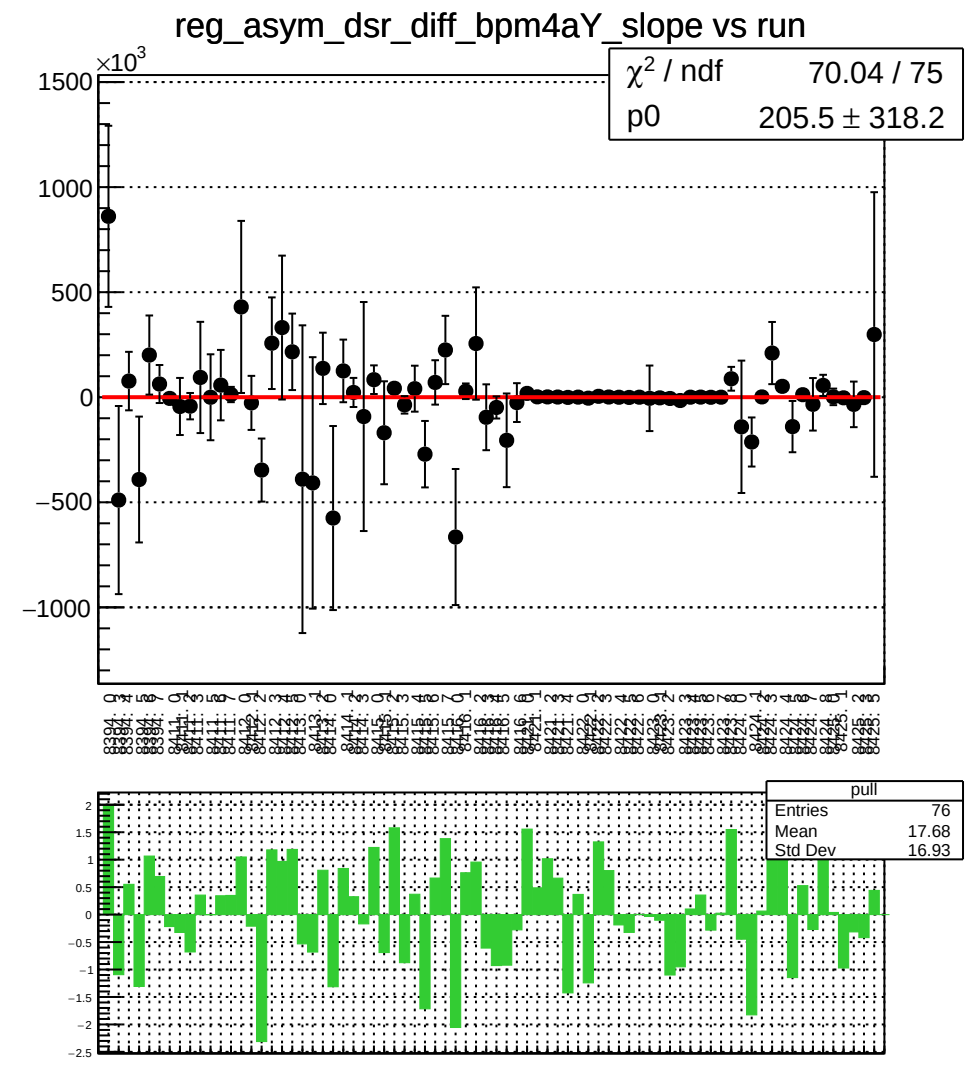

pull1D
Entries 80
Mean 0.01056
Std Dev 1.034

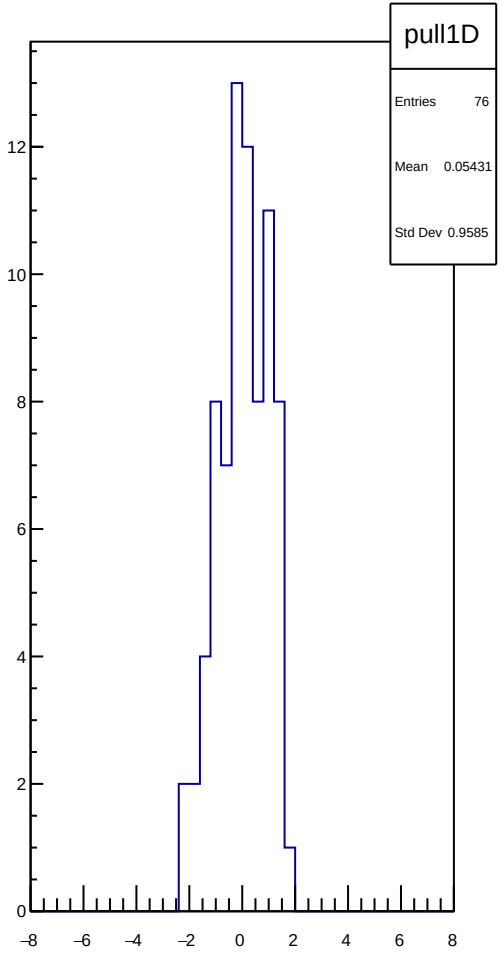

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 89.25 / 80
p0 0.05242 ± 5.449
pull
Entries 81
Mean 107.7
Std Dev 67.76

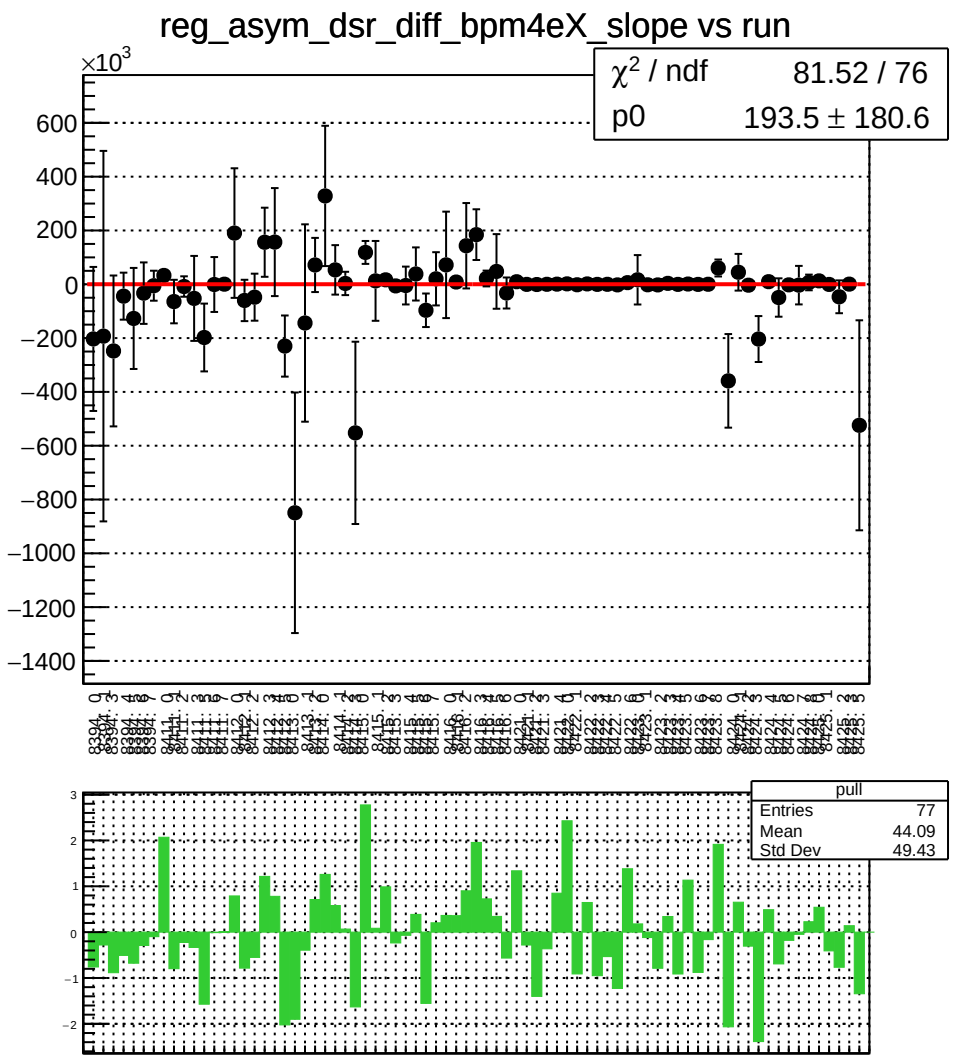

pull1D
Entries 81
Mean 0.04907
Std Dev 1.049

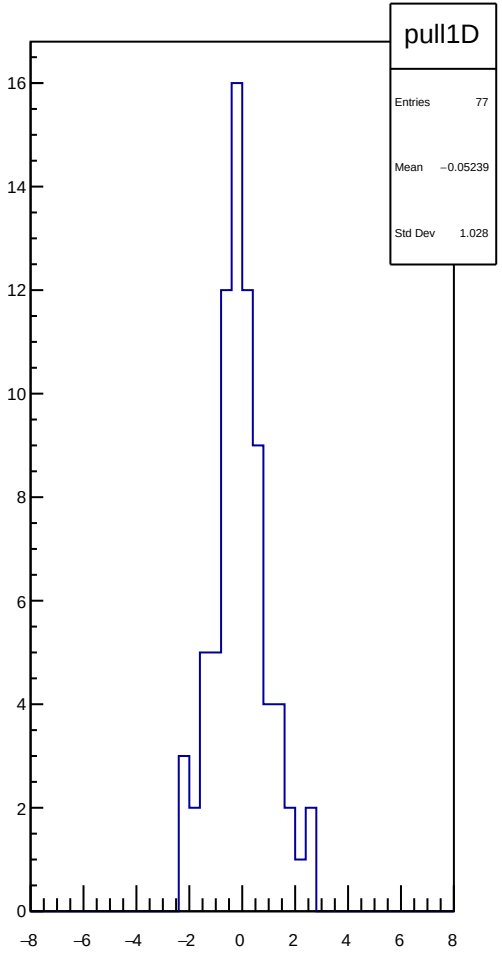

reg_asym_dsr_diff_bpm1X_slope vs run
×10^3
χ² / ndf 79.96 / 76
p0 −163.5 ± 161.2
1000
800
600
400
200
0
−200
−400
−600
pull
Entries 77
Mean 43.1
Std Dev 56.34
2
1
0
−1
−2

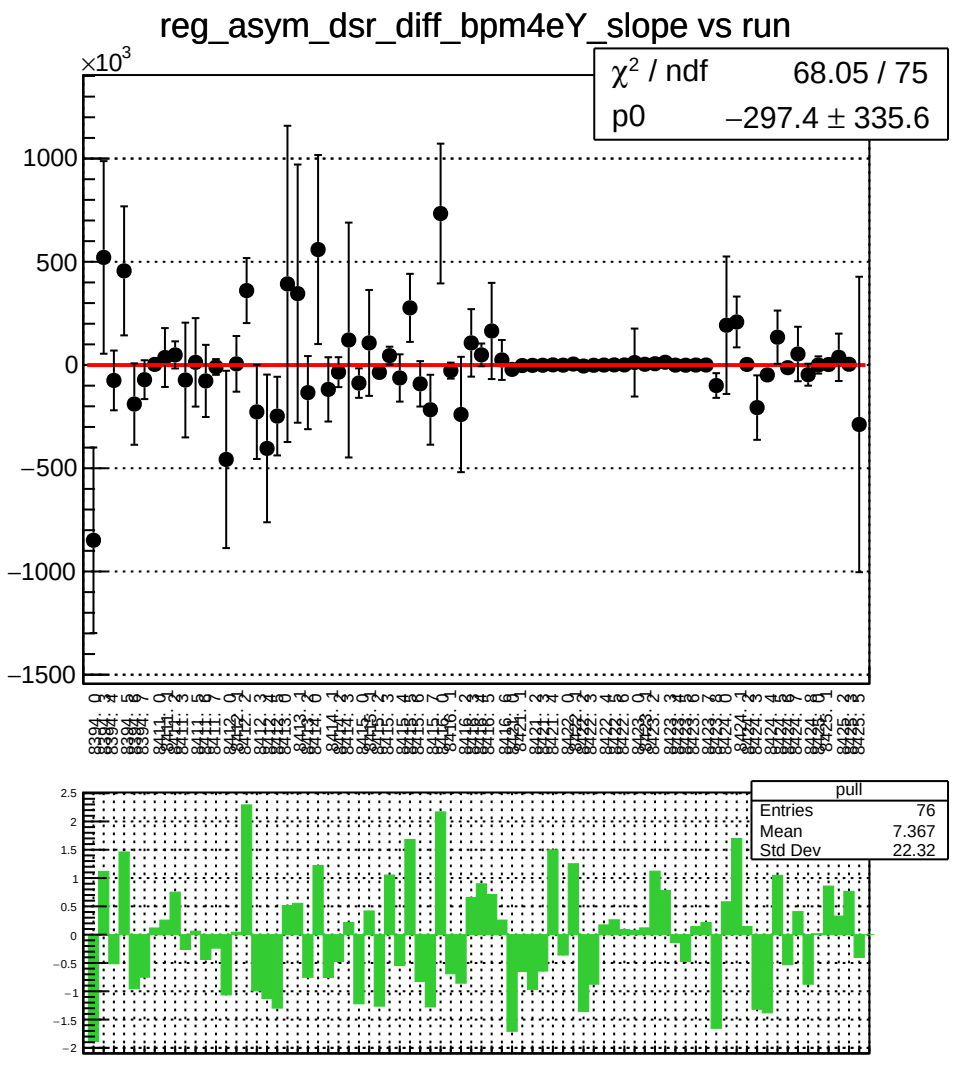

pull1D
Entries 77
Mean 0.04178
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

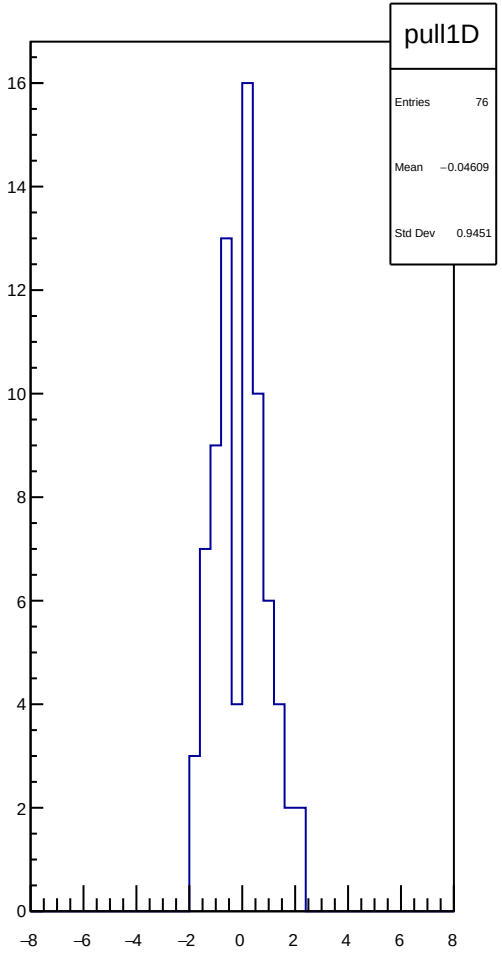

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 70.04 / 75
p0 205.5 ± 318.2
×10³
1500
1000
500
0
−500
−1000
pull
Entries 76
Mean 17.68
Std Dev 16.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

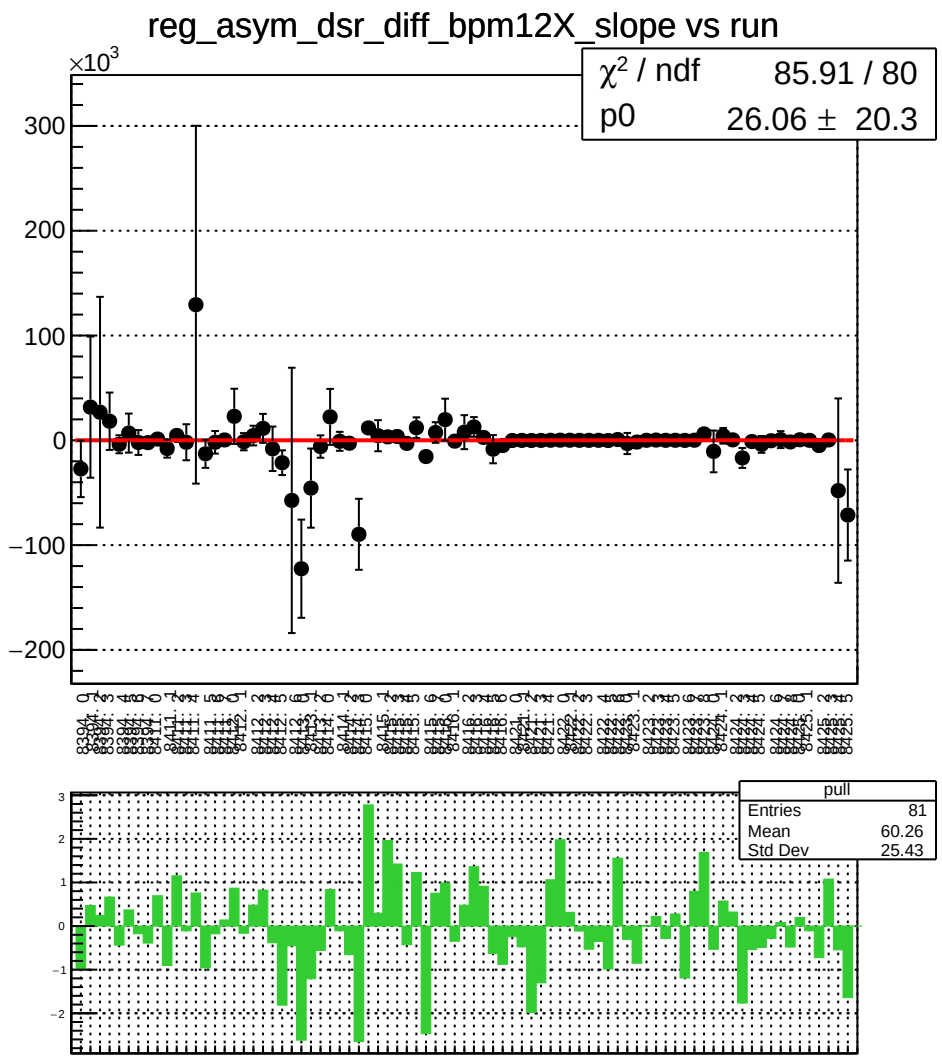

pull1D
Entries 76
Mean 0.05431
Std Dev 0.9585
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

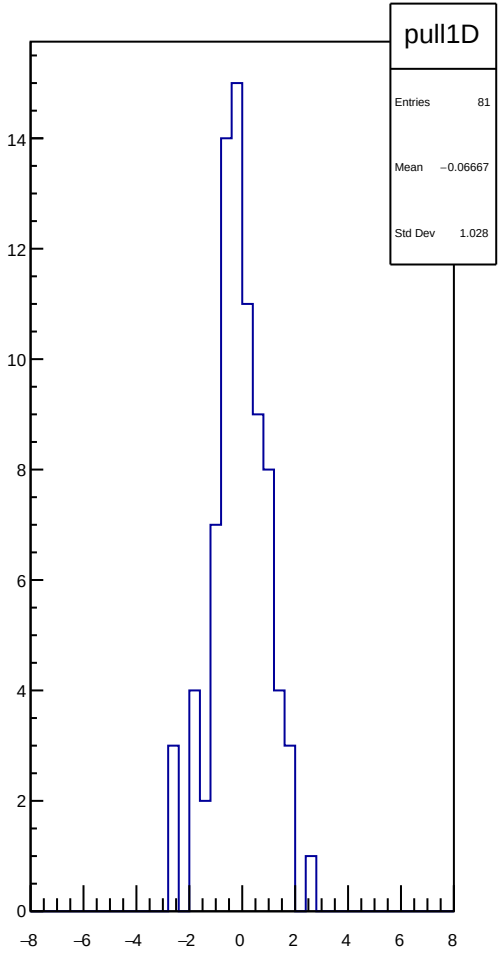

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 81.52 / 76
p0 193.5 ± 180.6
×10³
pull
Entries 77
Mean 44.09
Std Dev 49.43

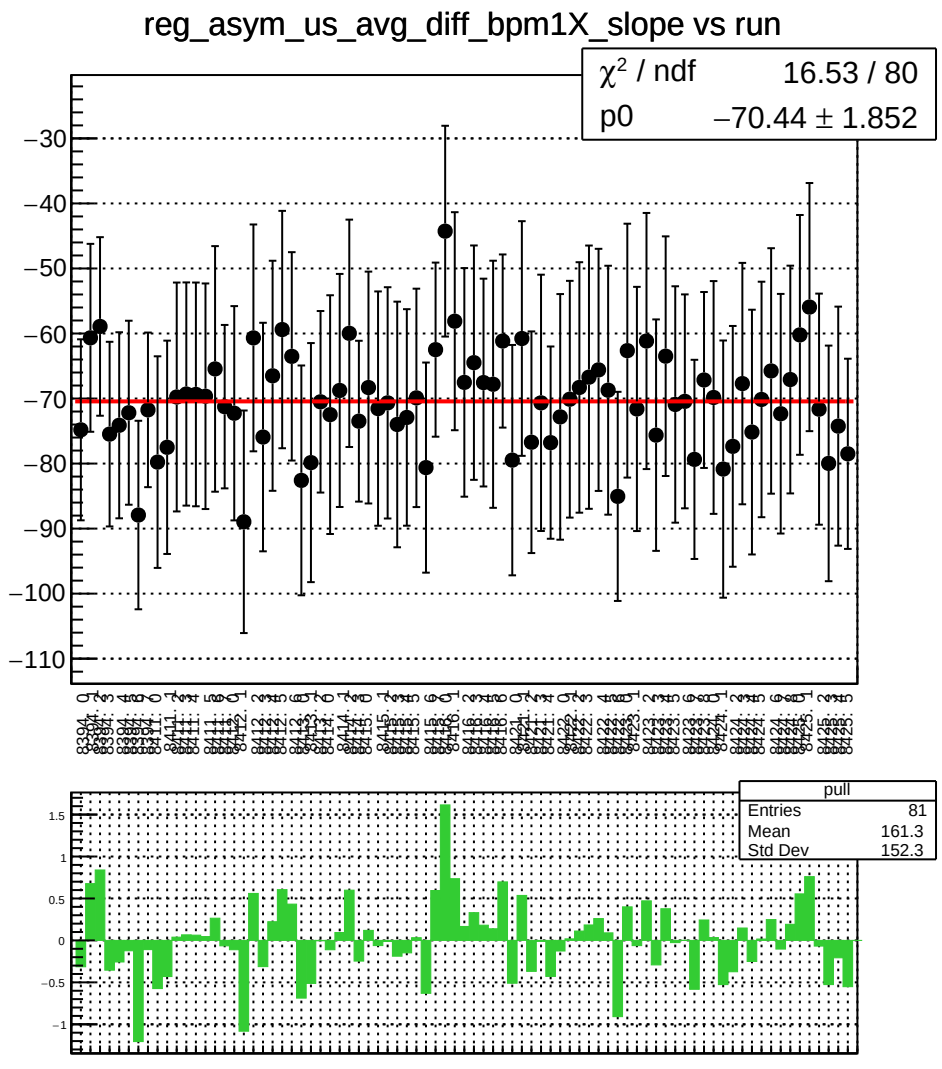

pull1D
Entries 77
Mean −0.05239
Std Dev 1.028

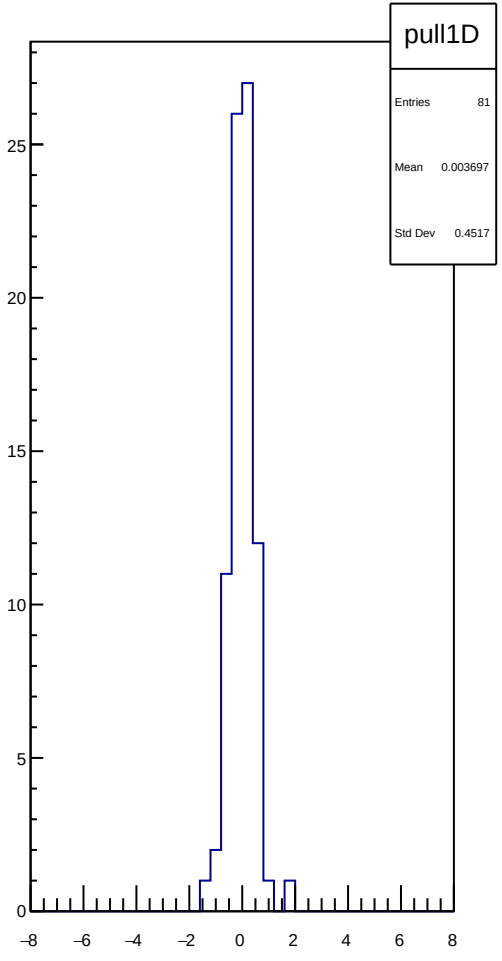

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 68.05 / 75
p0 −297.4 ± 335.6
×10³
pull
Entries 76
Mean 7.367
Std Dev 22.32

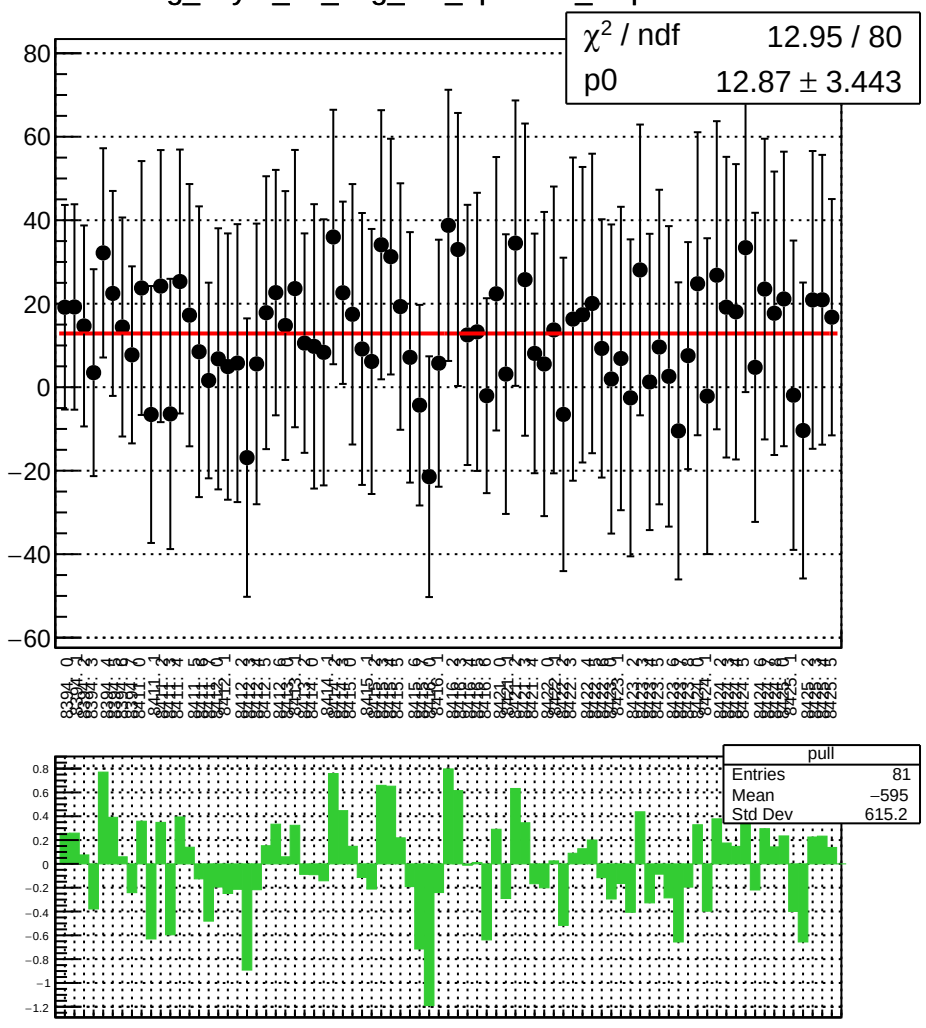

pull1D
Entries 76
Mean −0.04609
Std Dev 0.9451

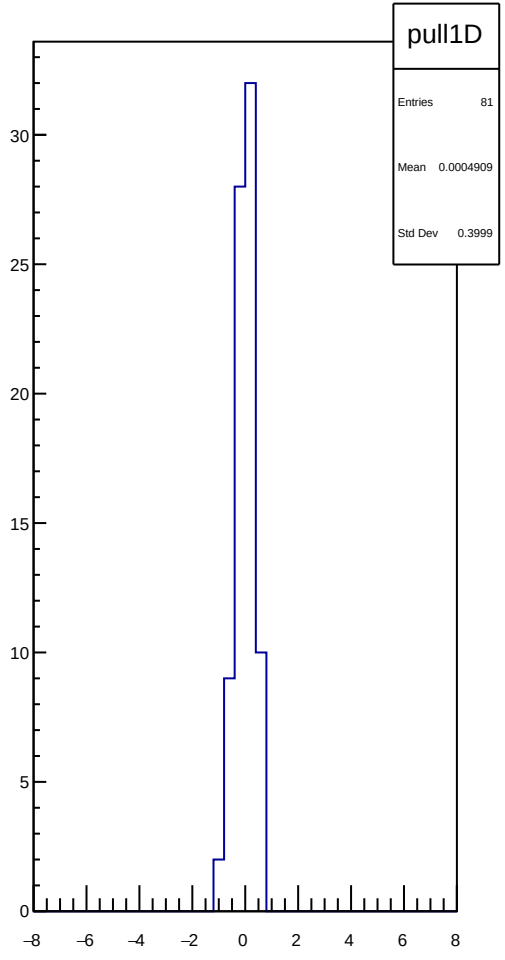

reg_asym_dsr_diff_bpm12X_slope vs run
×10^3
χ² / ndf 85.91 / 80
p0 26.06 ± 20.3
pull
Entries 81
Mean 60.26
Std Dev 25.43

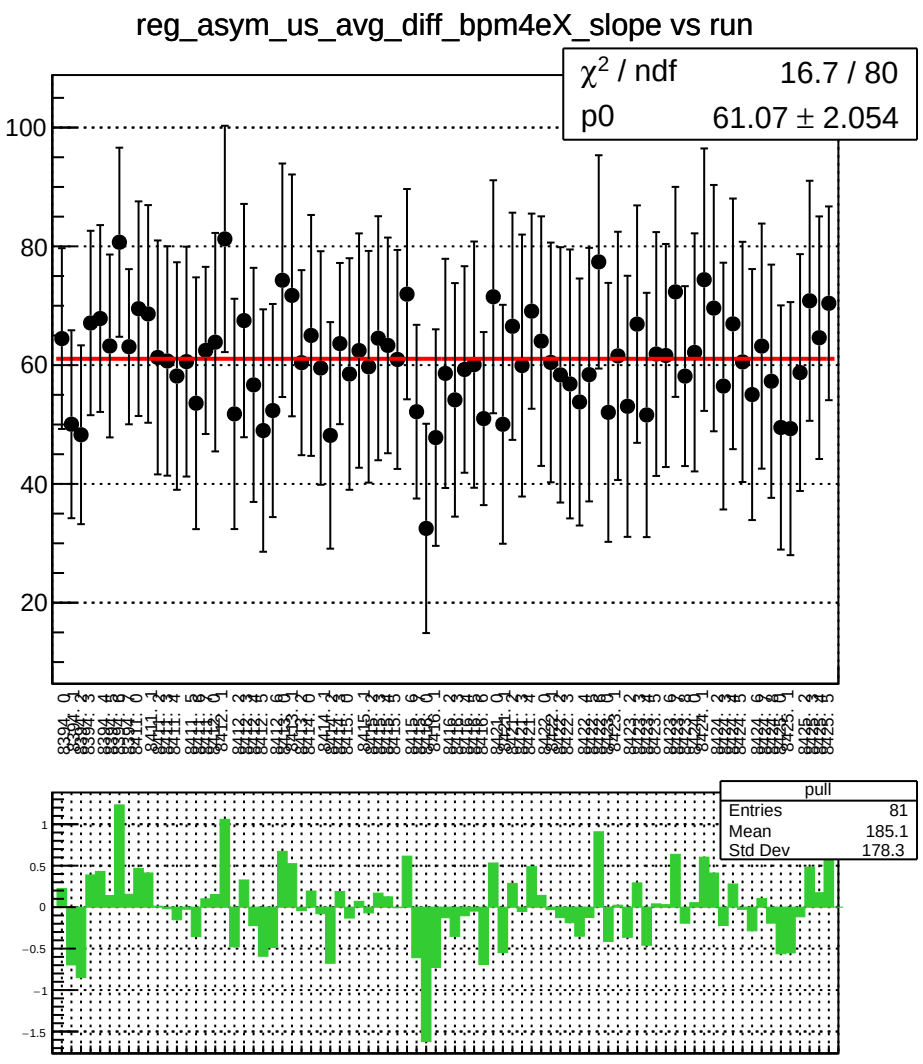

pull1D
Entries 81
Mean −0.06667
Std Dev 1.028

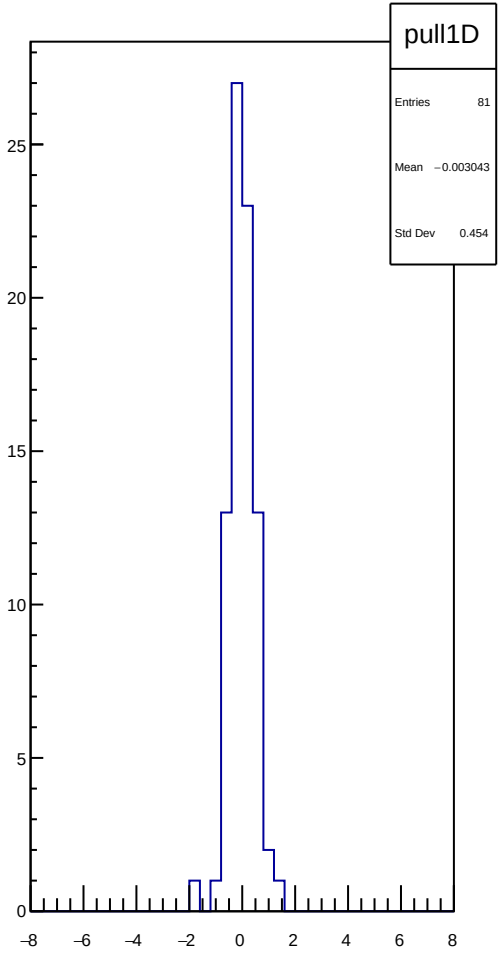

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 16.53 / 80
p0 −70.44 ± 1.852
pull
Entries 81
Mean 161.3
Std Dev 152.3

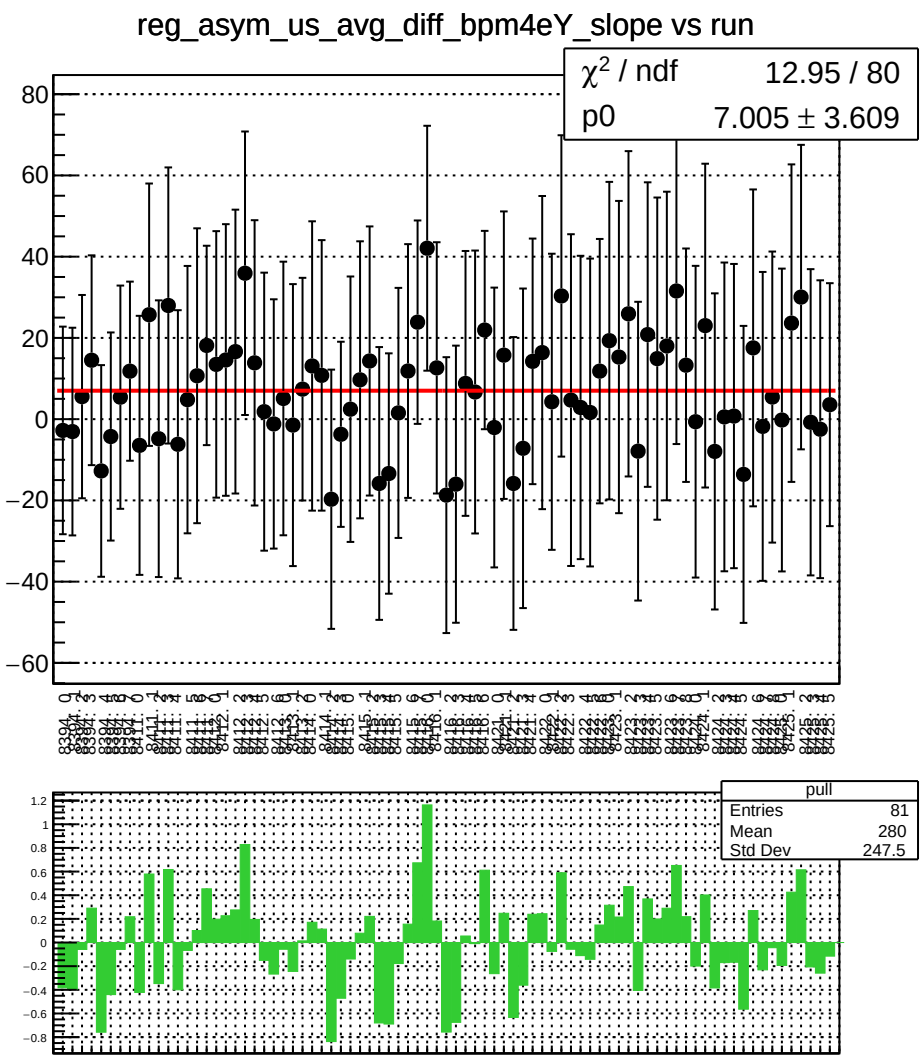

pull1D
Entries 81
Mean 0.003697
Std Dev 0.4517

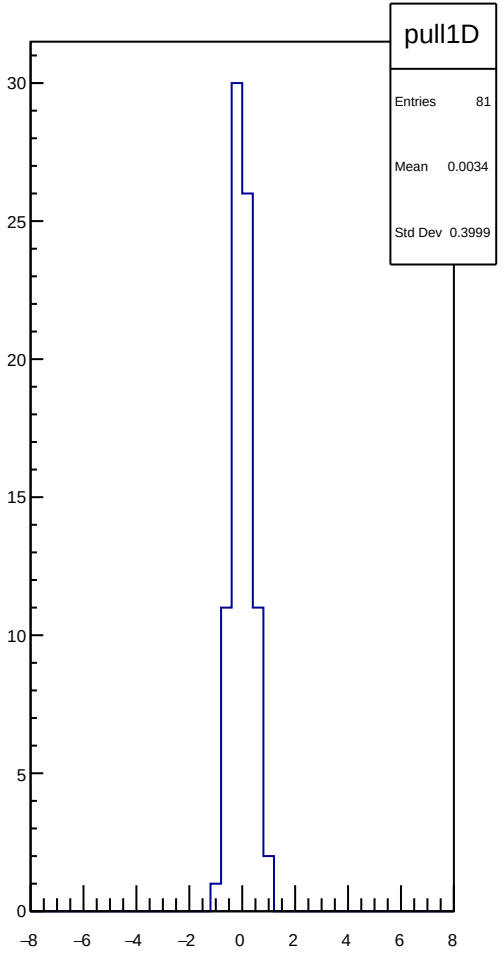

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.95 / 80
p0 12.87 ± 3.443
pull
Entries 81
Mean −595
Std Dev 615.2

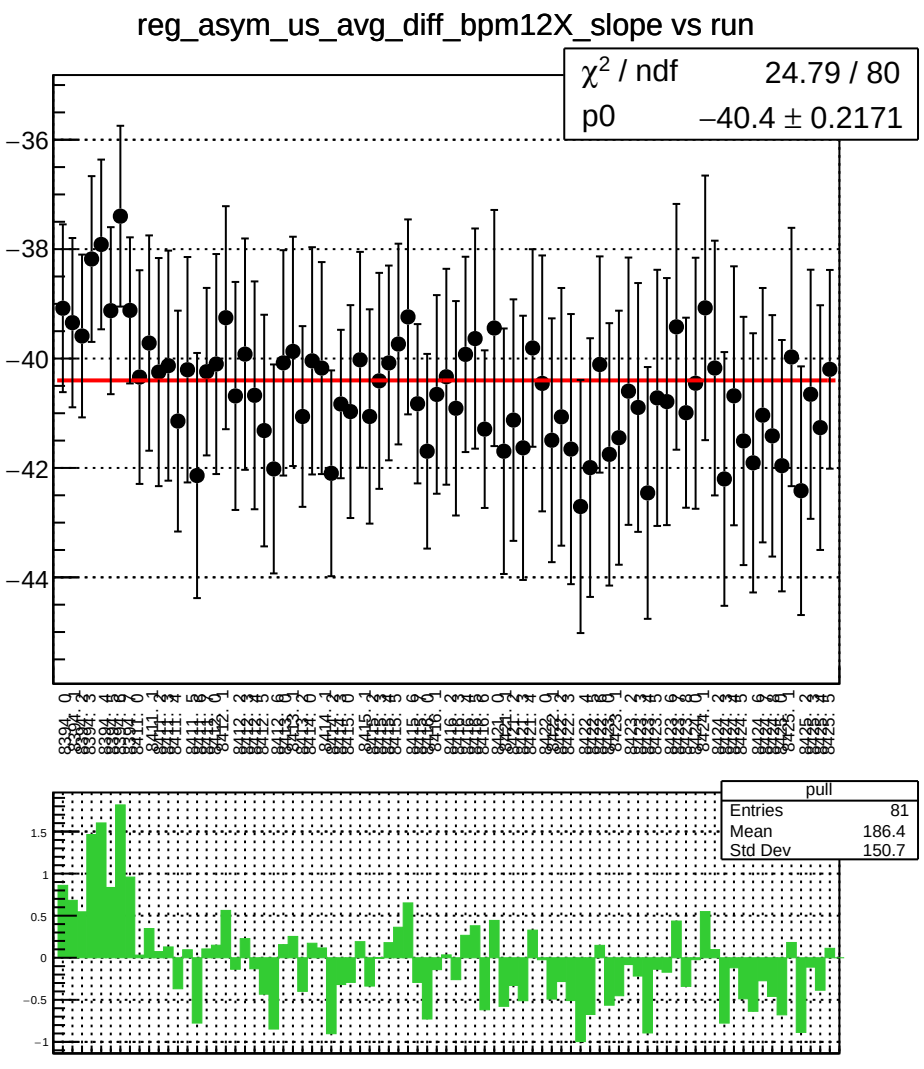

pull1D
Entries 81
Mean 0.0004909
Std Dev 0.3999

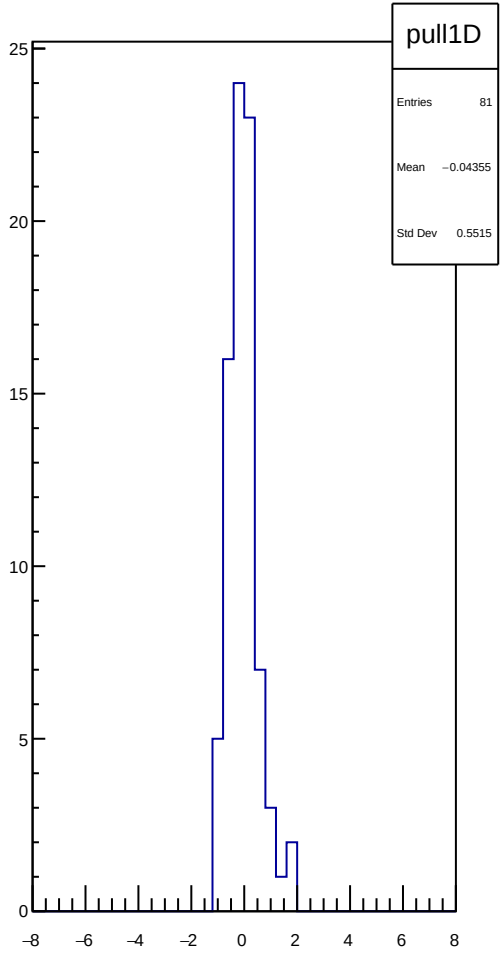

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.7 / 80
p0 61.07 ± 2.054
pull
Entries 81
Mean 185.1
Std Dev 178.3

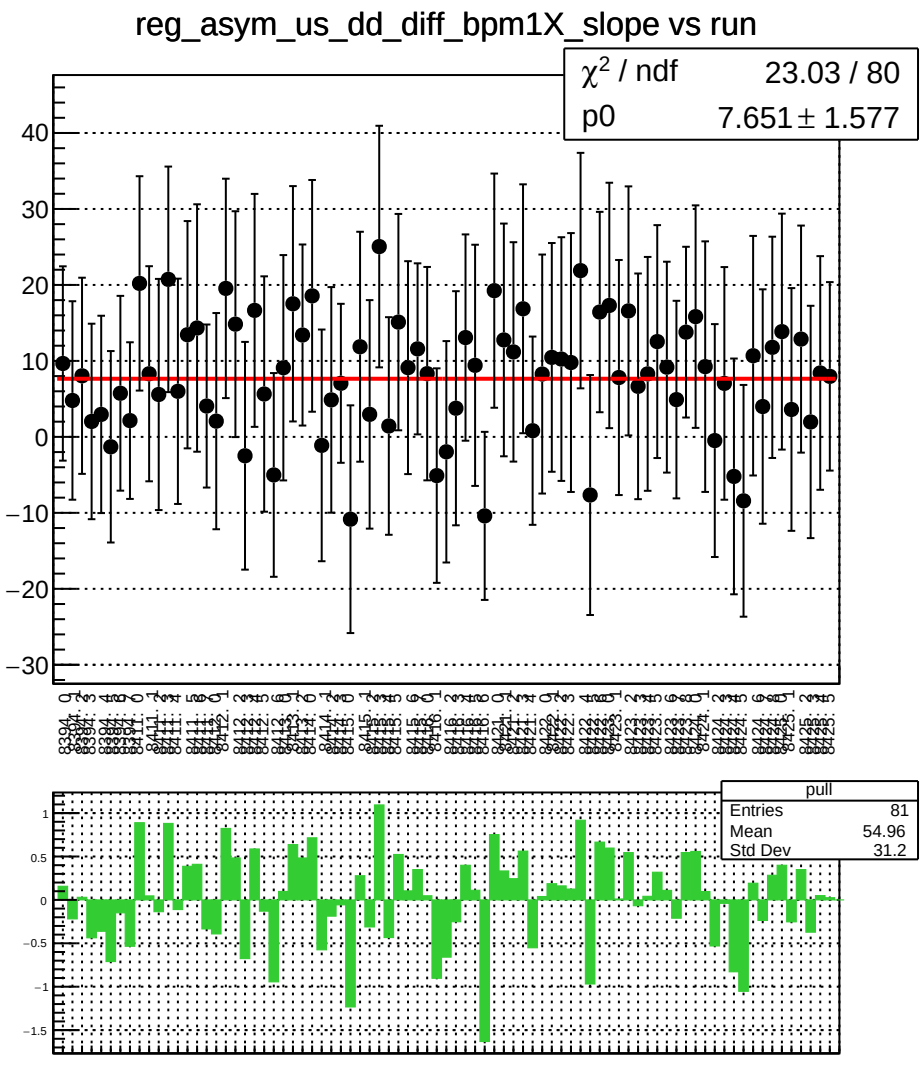

pull1D
Entries 81
Mean −0.003043
Std Dev 0.454

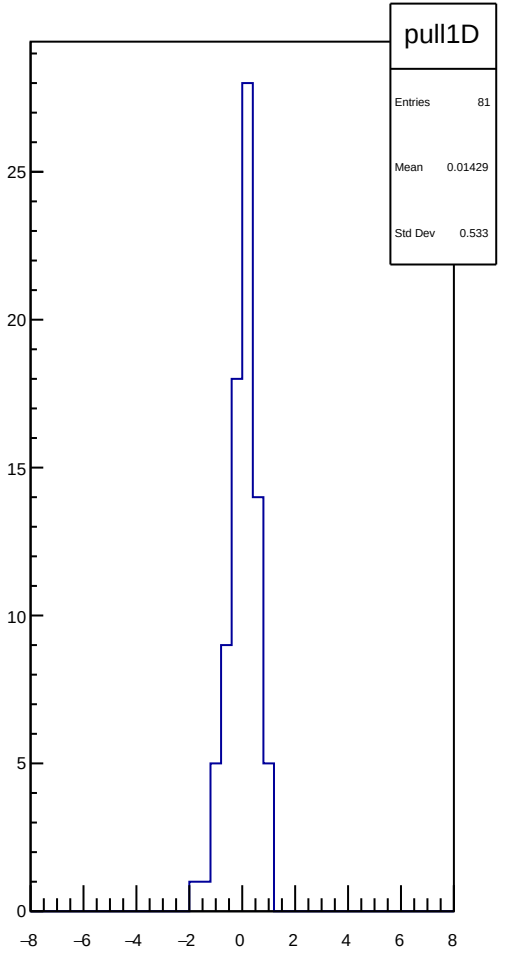

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.95 / 80
p0 7.005 ± 3.609
pull
Entries 81
Mean 280
Std Dev 247.5

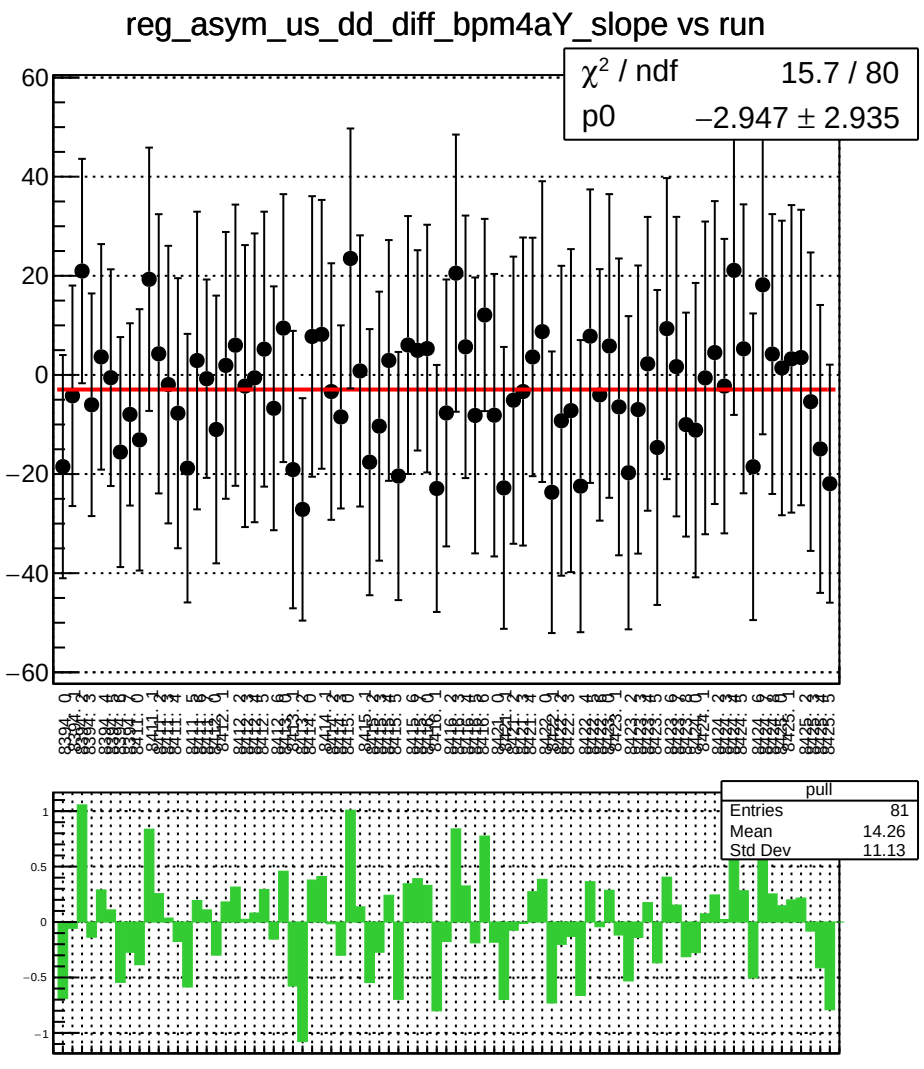

pull1D
Entries 81
Mean 0.0034
Std Dev 0.3999

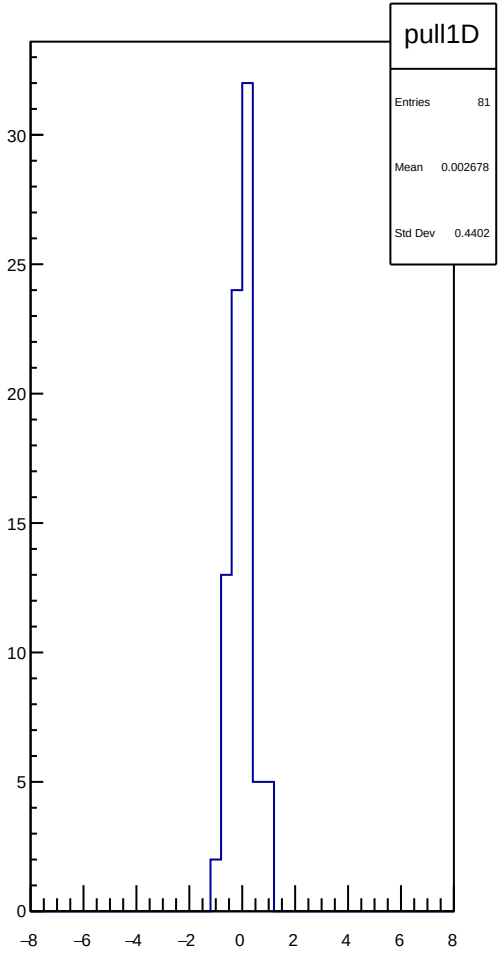

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 24.79 / 80
p0 −40.4 ± 0.2171
−36
−38
−40
−42
−44
pull
Entries 81
Mean 186.4
Std Dev 150.7
1.5
1
0.5
0
−0.5
−1

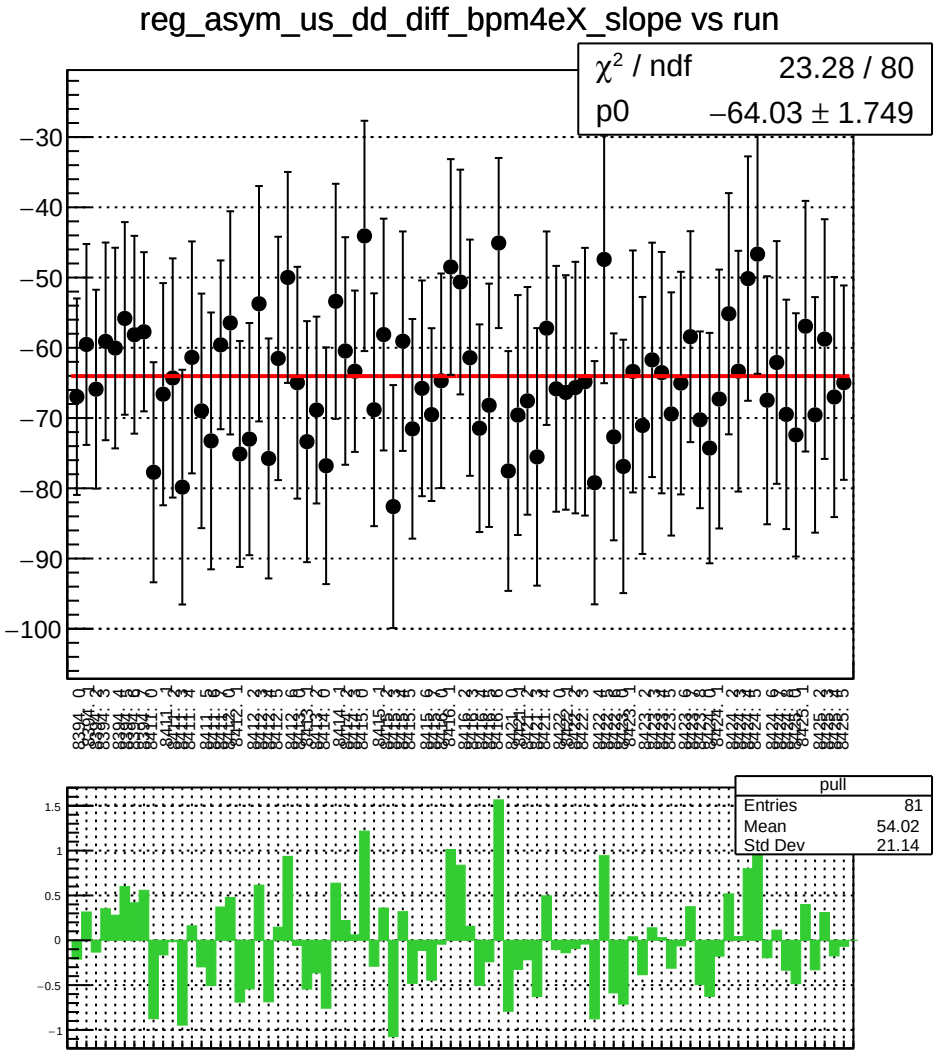

pull1D
Entries 81
Mean −0.04355
Std Dev 0.5515
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

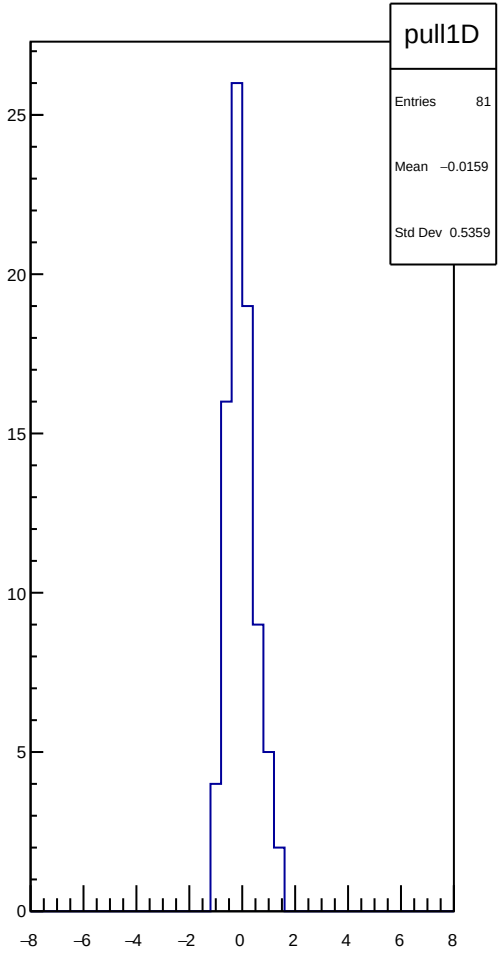

reg_asym_us_dd_diff_bpm1X_slope vs run
χ^2 / ndf 23.03 / 80
p0 7.651 ± 1.577
pull
Entries 81
Mean 54.96
Std Dev 31.2

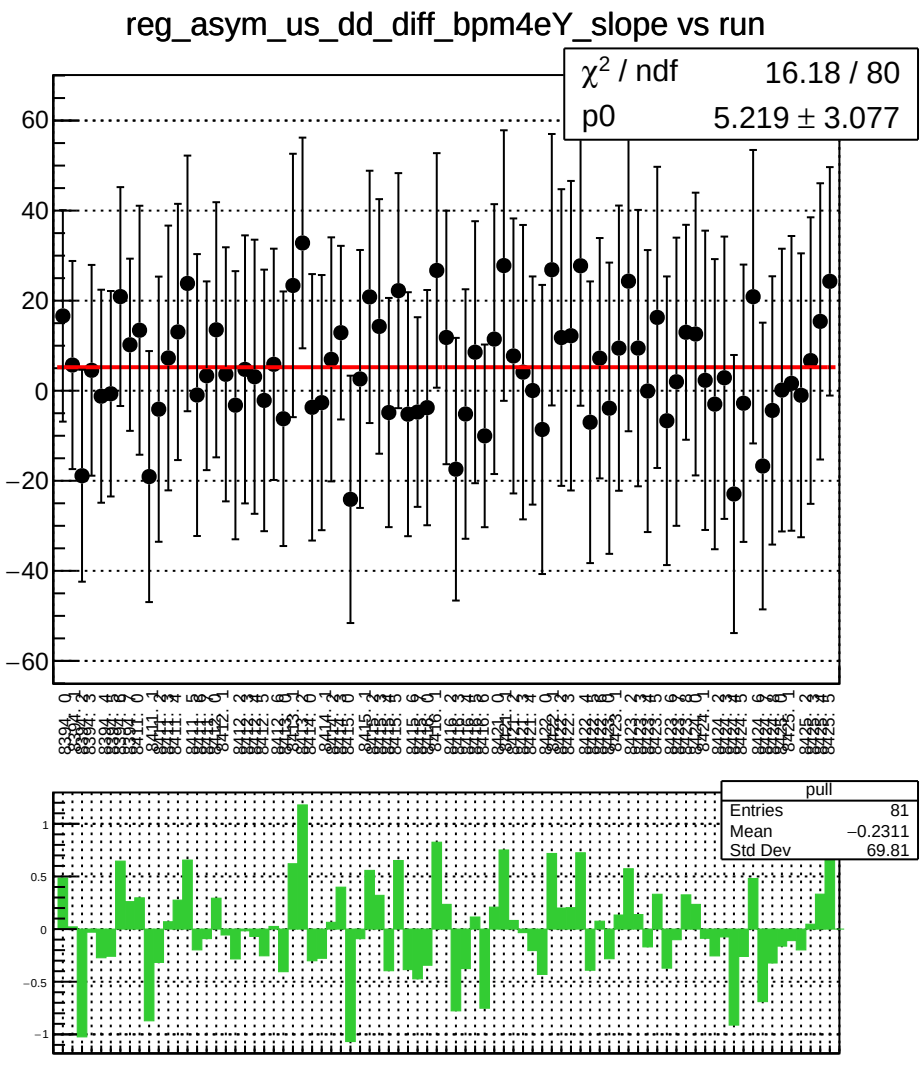

pull1D
Entries 81
Mean 0.01429
Std Dev 0.533

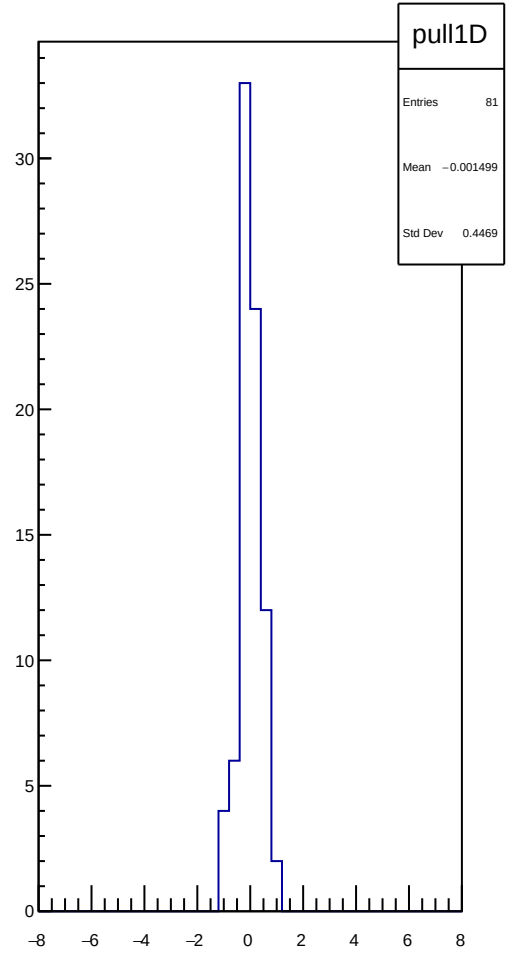

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.7 / 80
p0 −2.947 ± 2.935
pull
Entries 81
Mean 14.26
Std Dev 11.13

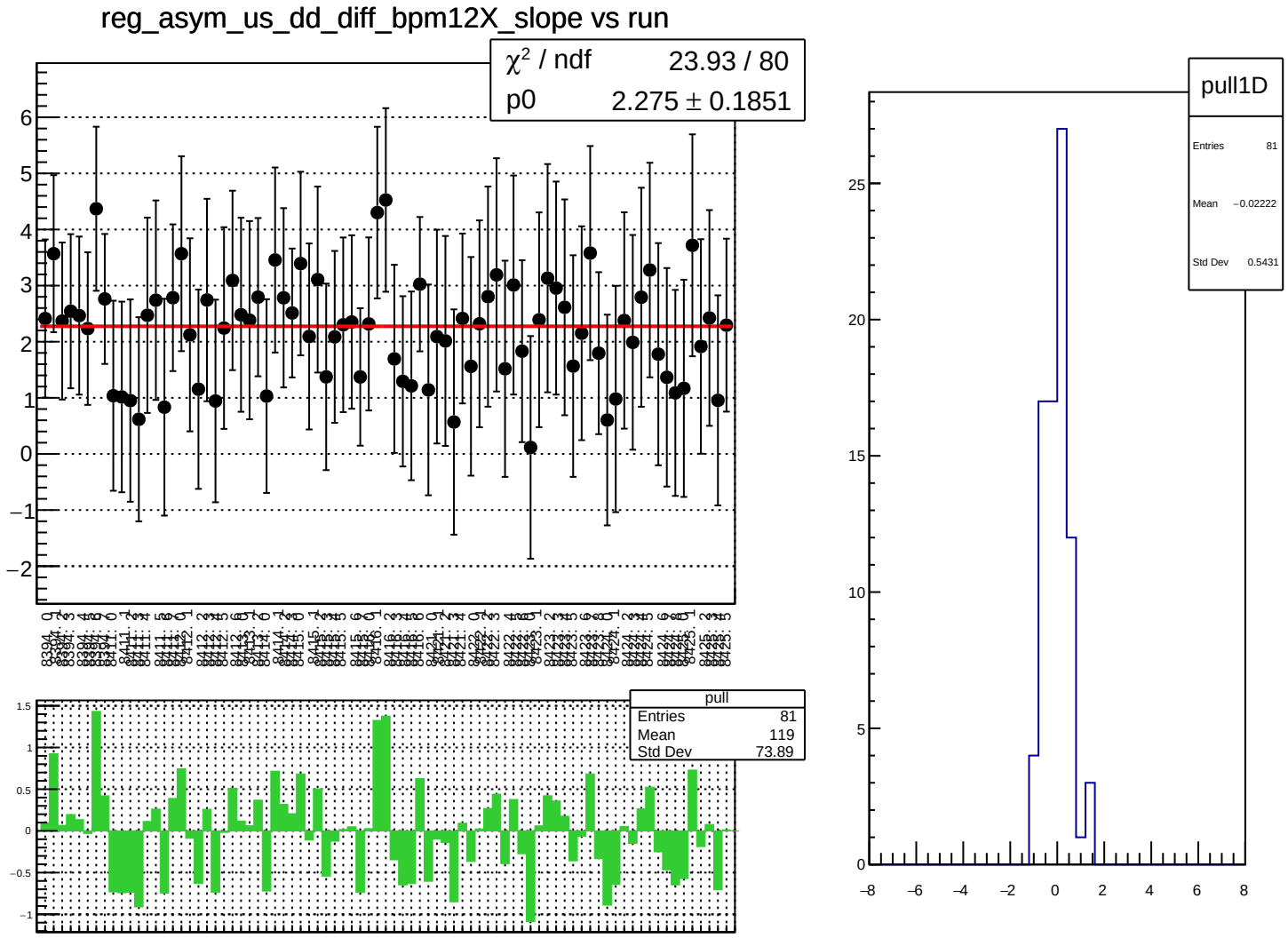

pull1D
Entries 81
Mean 0.002678
Std Dev 0.4402

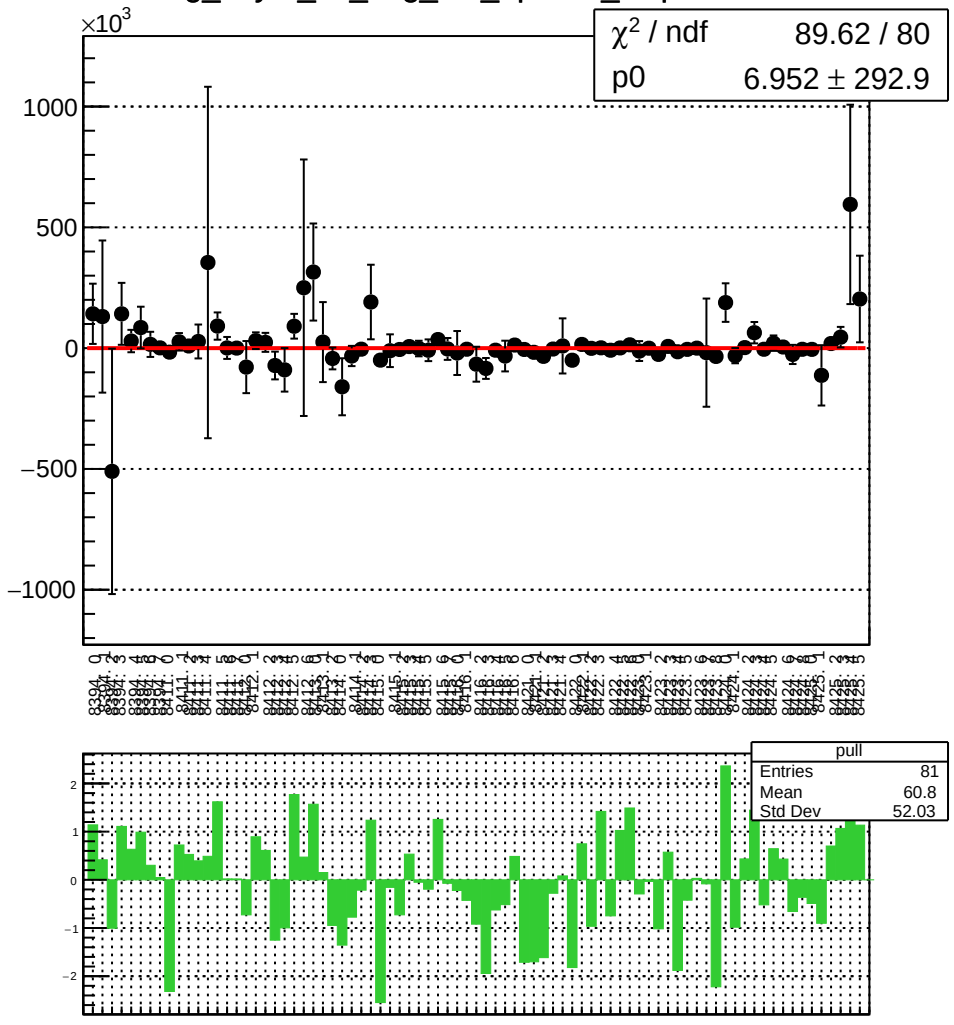

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.28 / 80
p0 −64.03 ± 1.749
pull
Entries 81
Mean 54.02
Std Dev 21.14

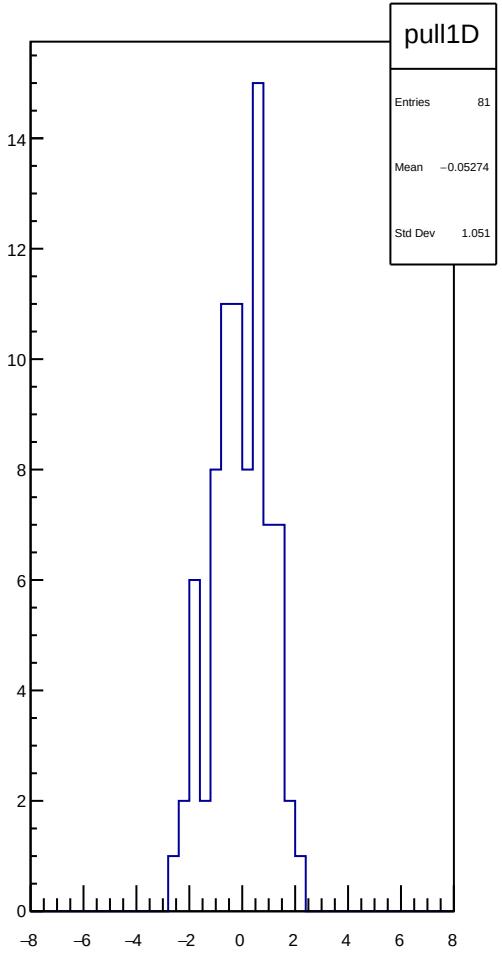

pull1D
Entries 81
Mean −0.0159
Std Dev 0.5359

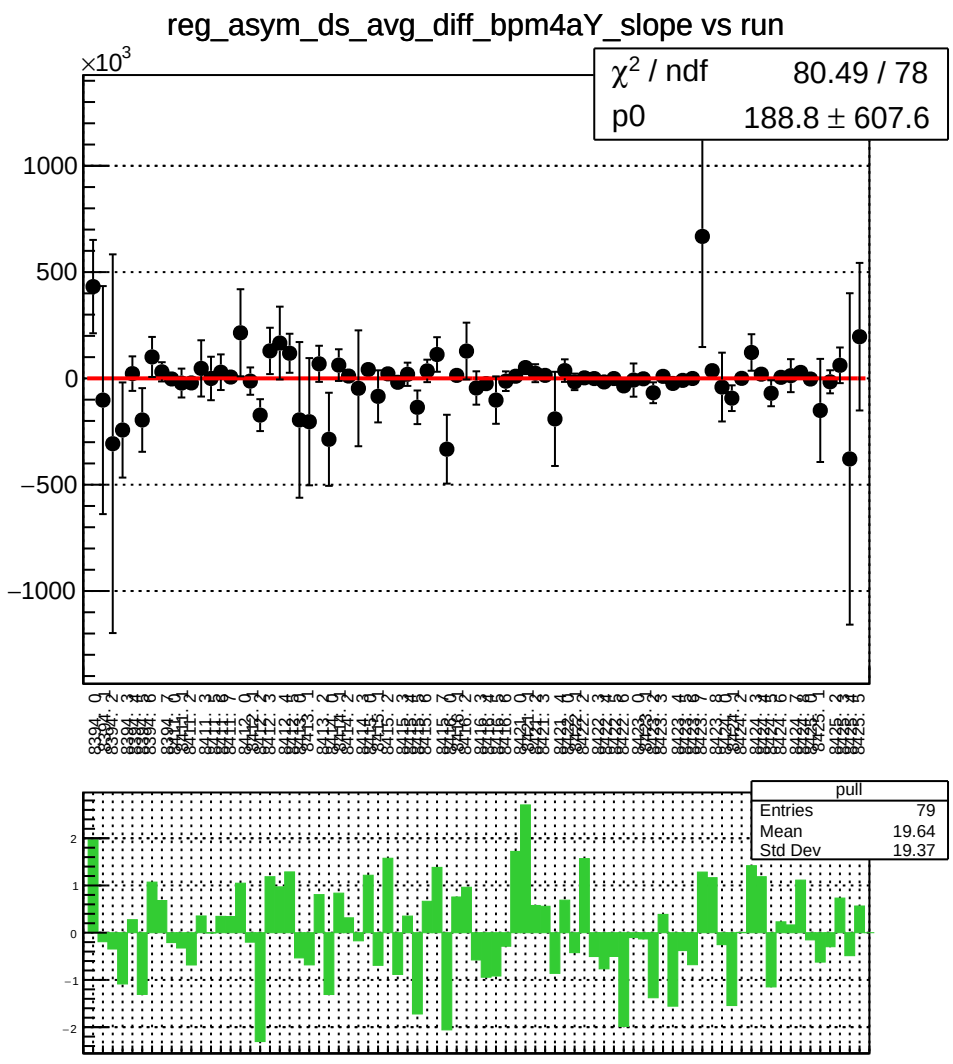

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.18 / 80
p0 5.219 ± 3.077
pull
Entries 81
Mean −0.2311
Std Dev 69.81

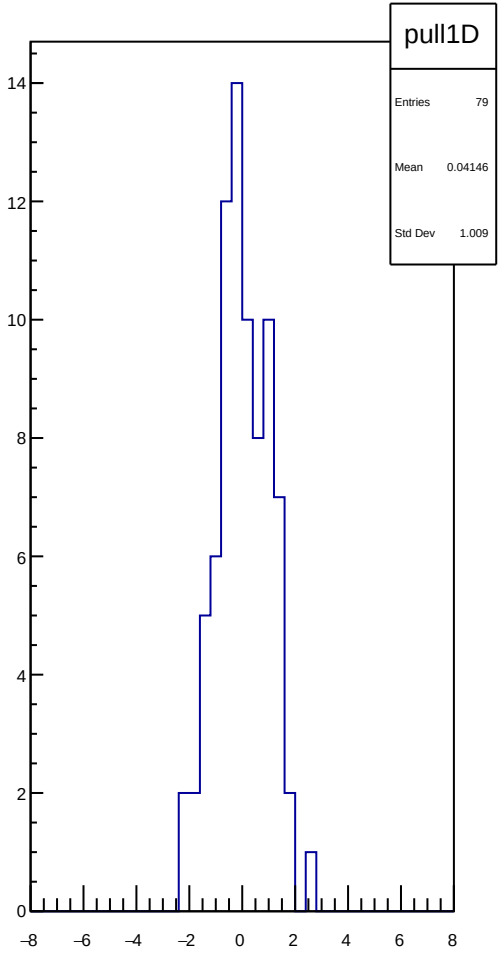

pull1D
Entries 81
Mean −0.001499
Std Dev 0.4469

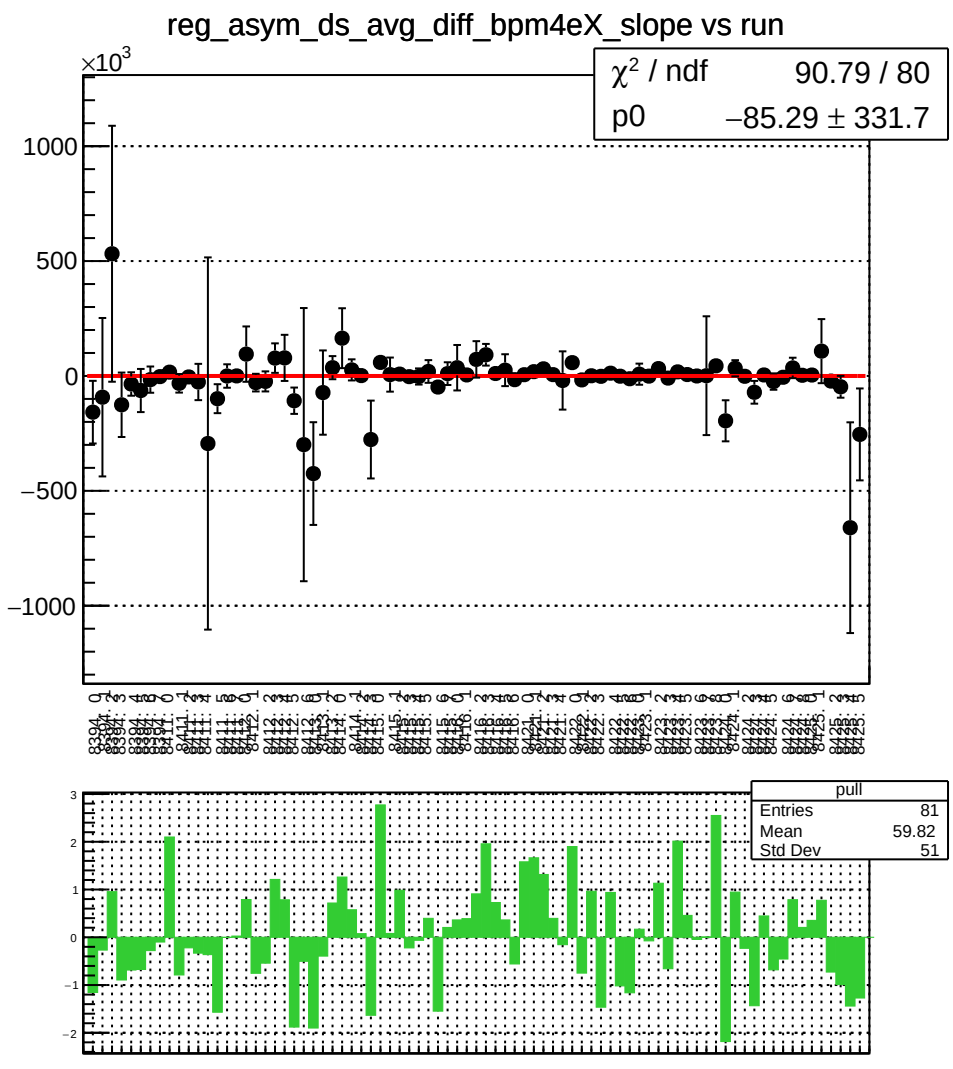

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 23.93 / 80
p0 2.275 ± 0.1851
pull
Entries 81
Mean 119
Std Dev 73.89
pull1D
Entries 81
Mean −0.02222
Std Dev 0.5431

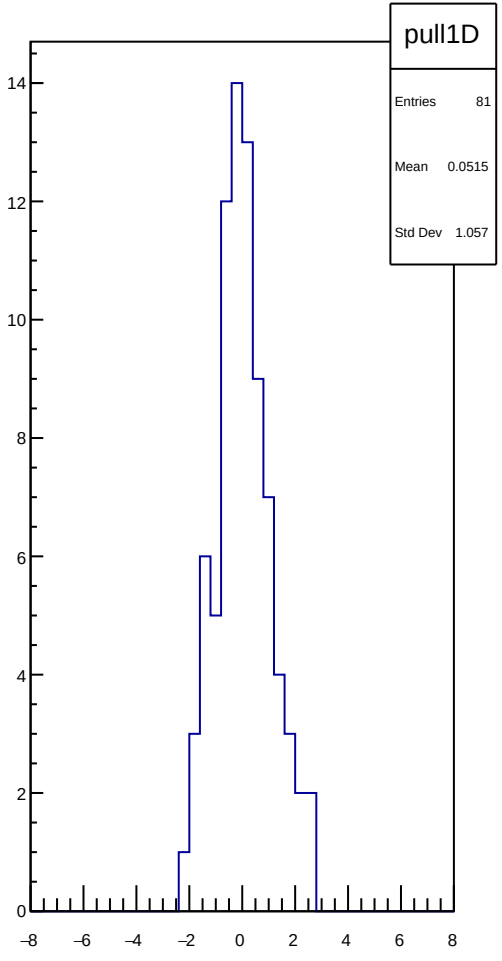

reg_asym_ds_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 89.62 / 80
p0 6.952 ± 292.9
1000
500
0
−500
−1000
pull
Entries 81
Mean 60.8
Std Dev 52.03
2
1
0
−1
−2

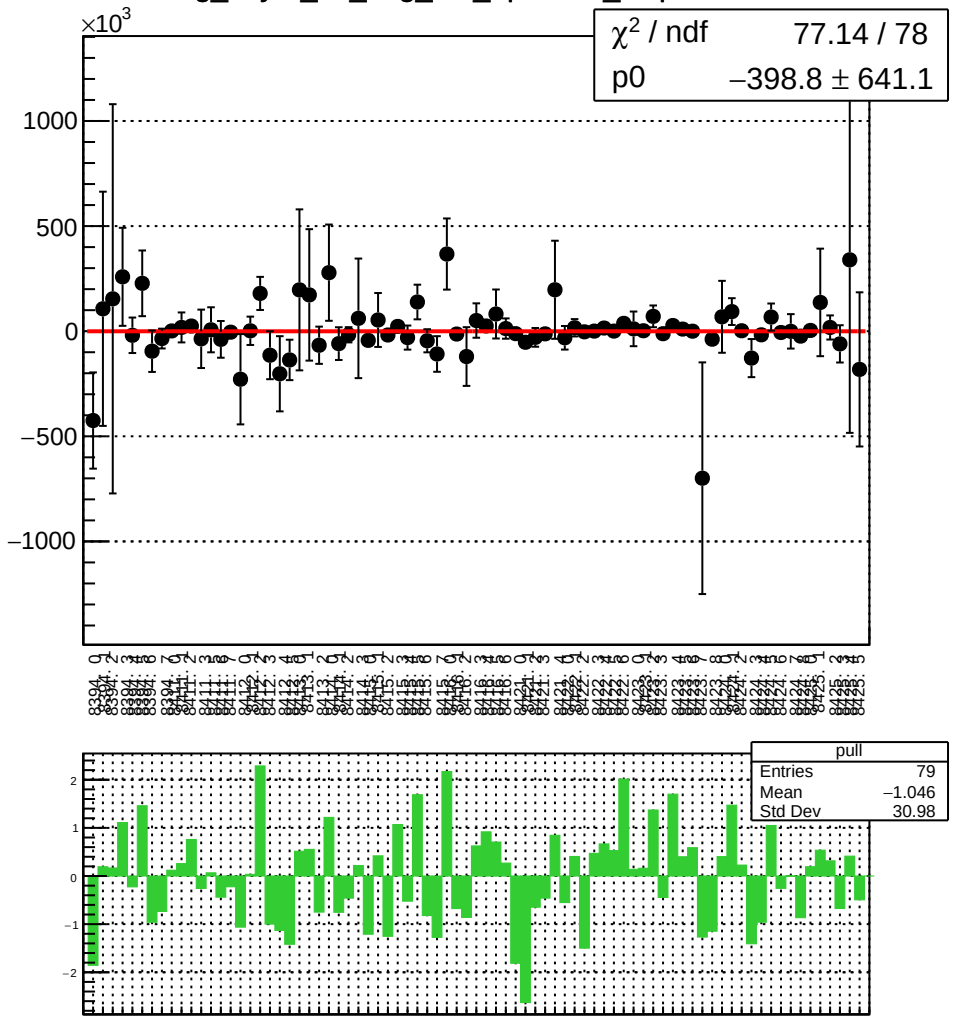

pull1D
Entries 81
Mean −0.05274
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

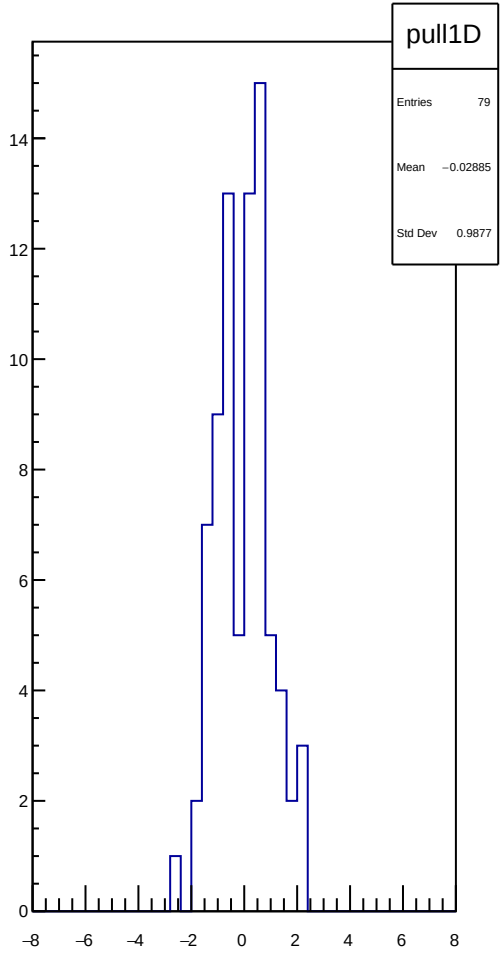

reg_asym_ds_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 80.49 / 78
p0 188.8 ± 607.6
1000
500
0
−500
−1000
pull
Entries 79
Mean 19.64
Std Dev 19.37
2
1
0
−1
−2

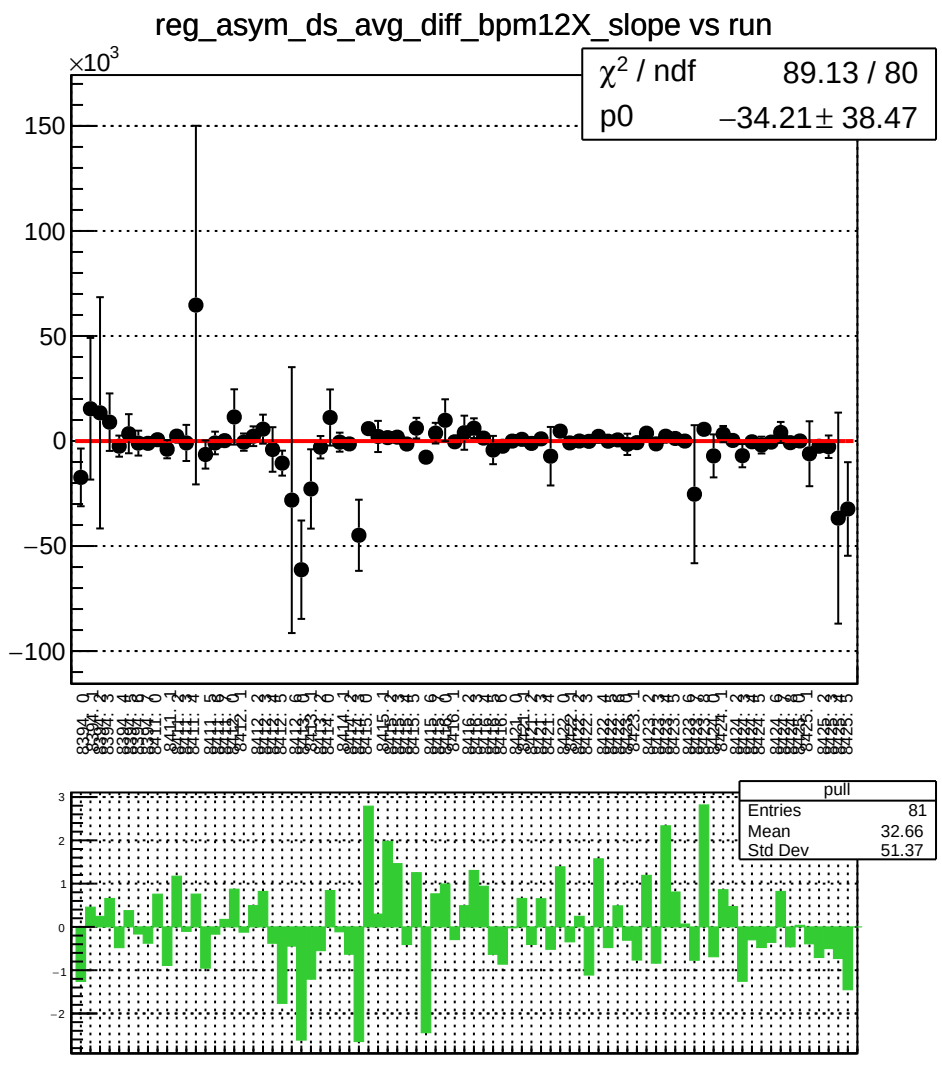

pull1D
Entries 79
Mean 0.04146
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

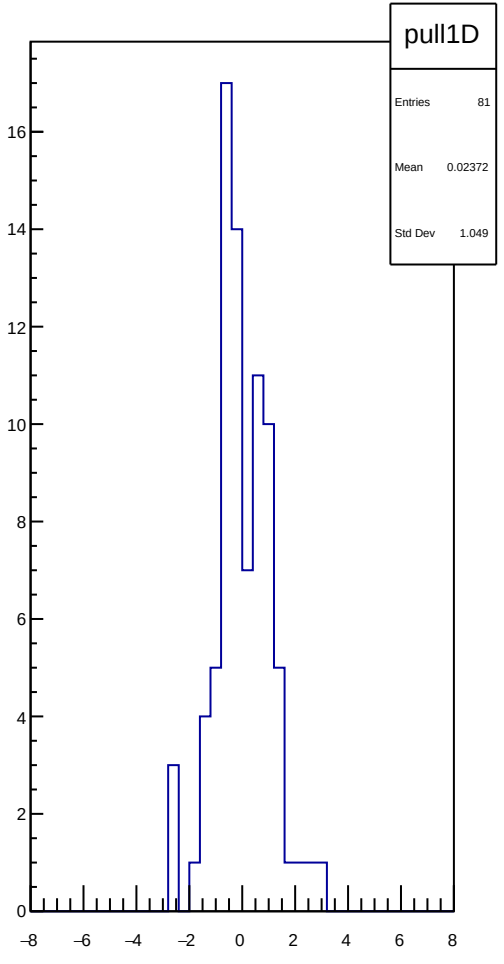

reg_asym_ds_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 90.79 / 80
p0 −85.29 ± 331.7
1000
500
0
−500
−1000
pull
Entries 81
Mean 59.82
Std Dev 51
3
2
1
0
−1
−2

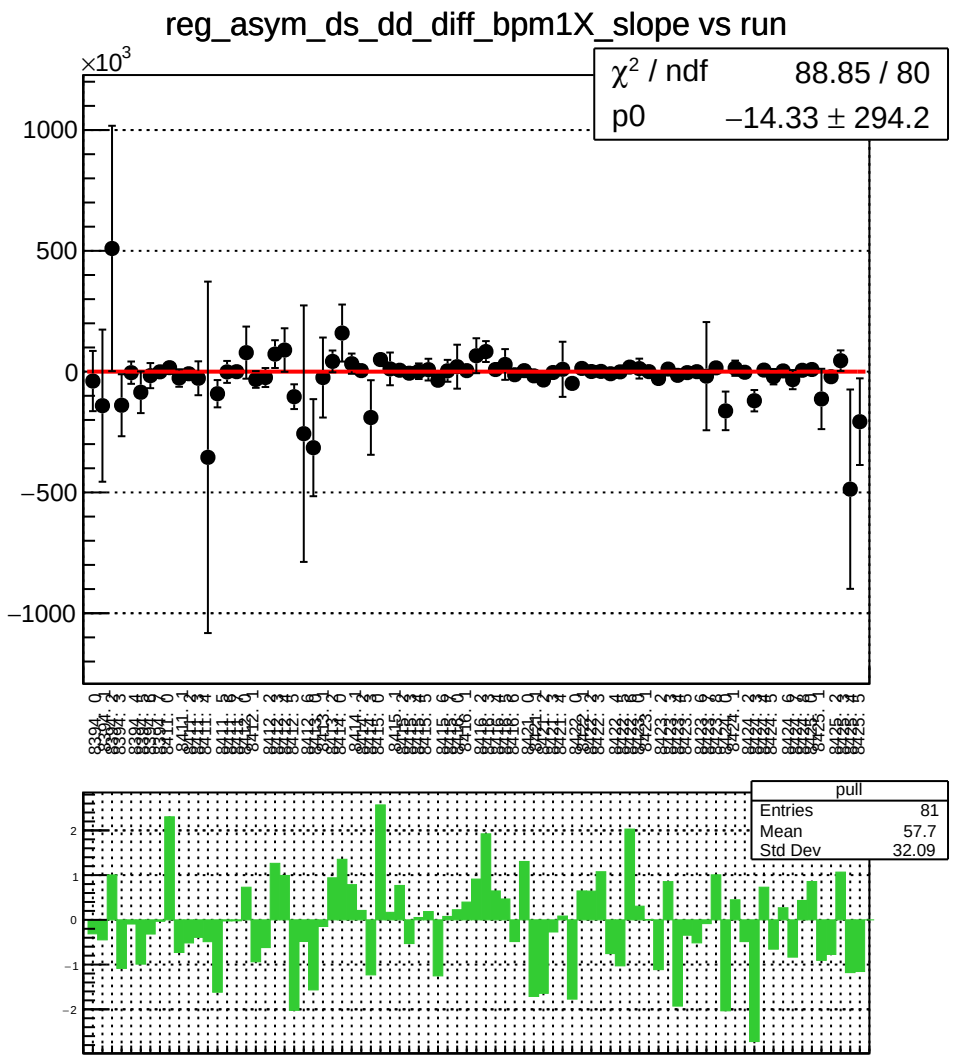

pull1D
Entries 81
Mean 0.0515
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

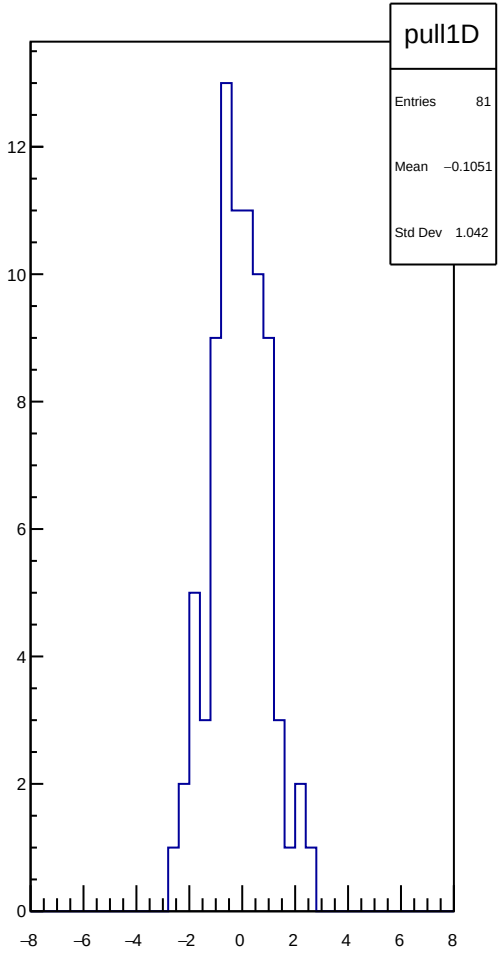

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.14 / 78
p0 −398.8 ± 641.1
×10³
1000
500
0
−500
−1000
pull
Entries 79
Mean −1.046
Std Dev 30.98
2
1
0
−1
−2

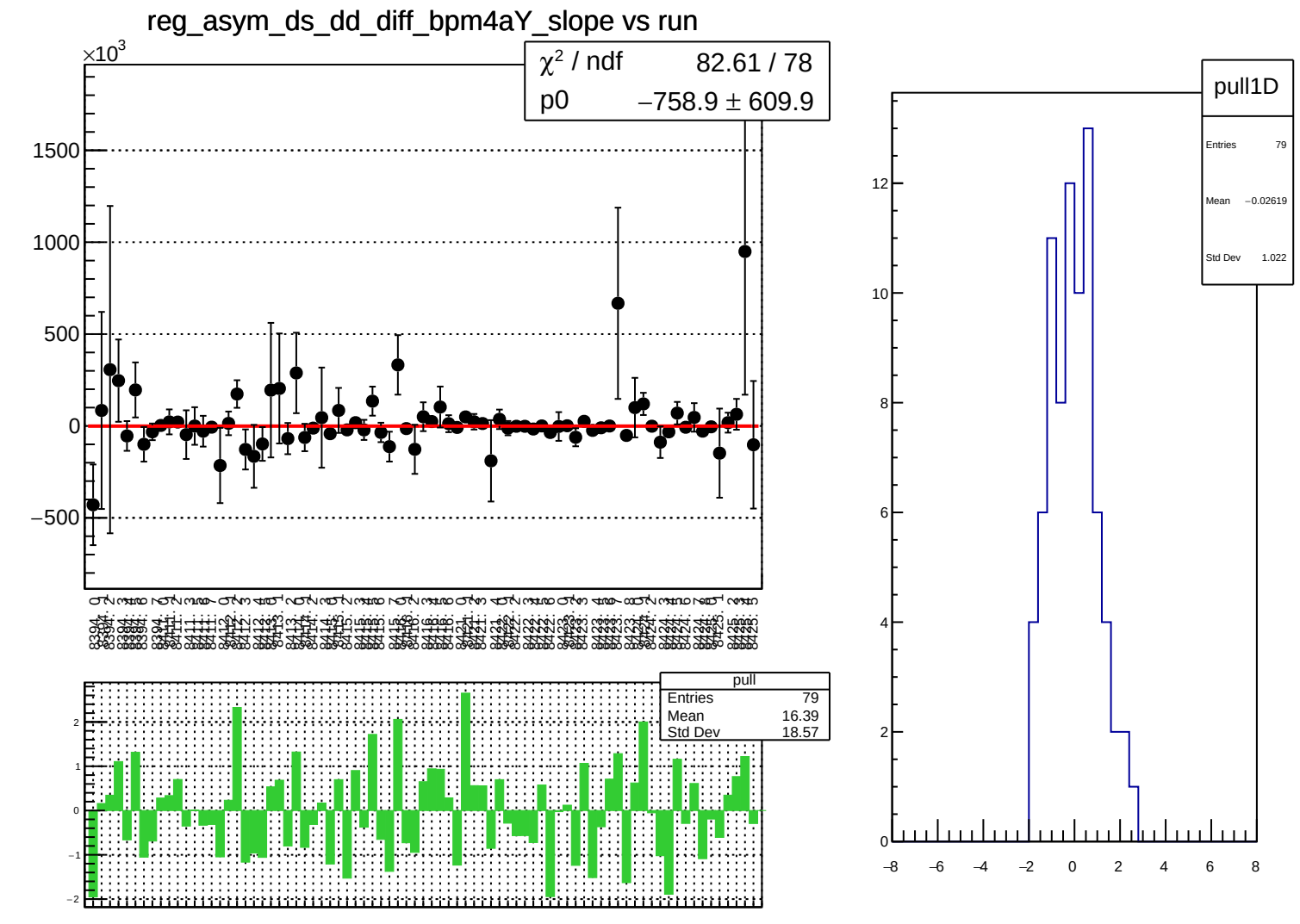

pull1D
Entries 79
Mean −0.02885
Std Dev 0.9877
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

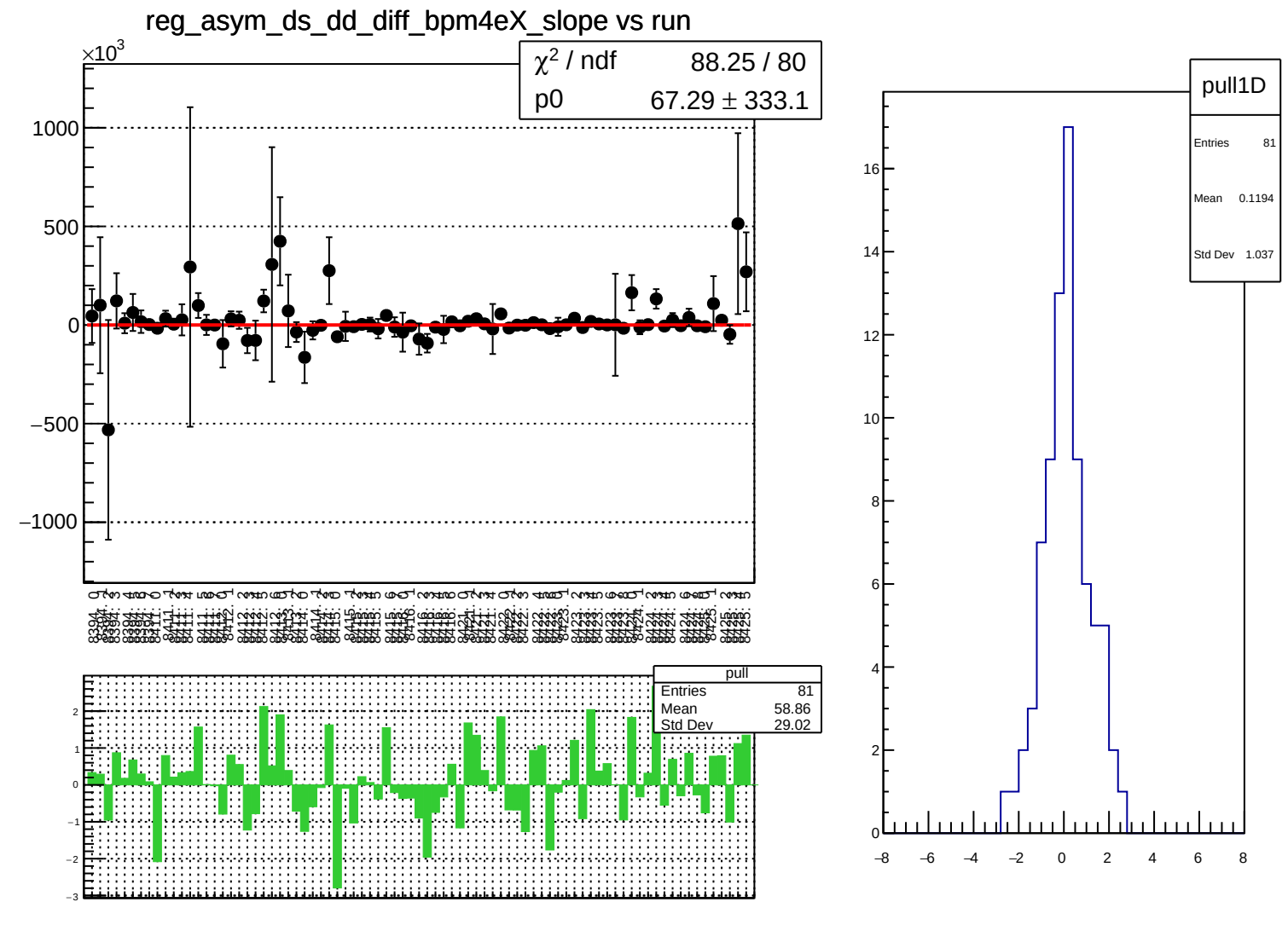

reg_asym_ds_avg_diff_bpm12X_slope vs run
×10^3
χ² / ndf 89.13 / 80
p0 −34.21 ± 38.47
150
100
50
0
−50
−100
pull
Entries 81
Mean 32.66
Std Dev 51.37
3
2
1
0
−1
−2

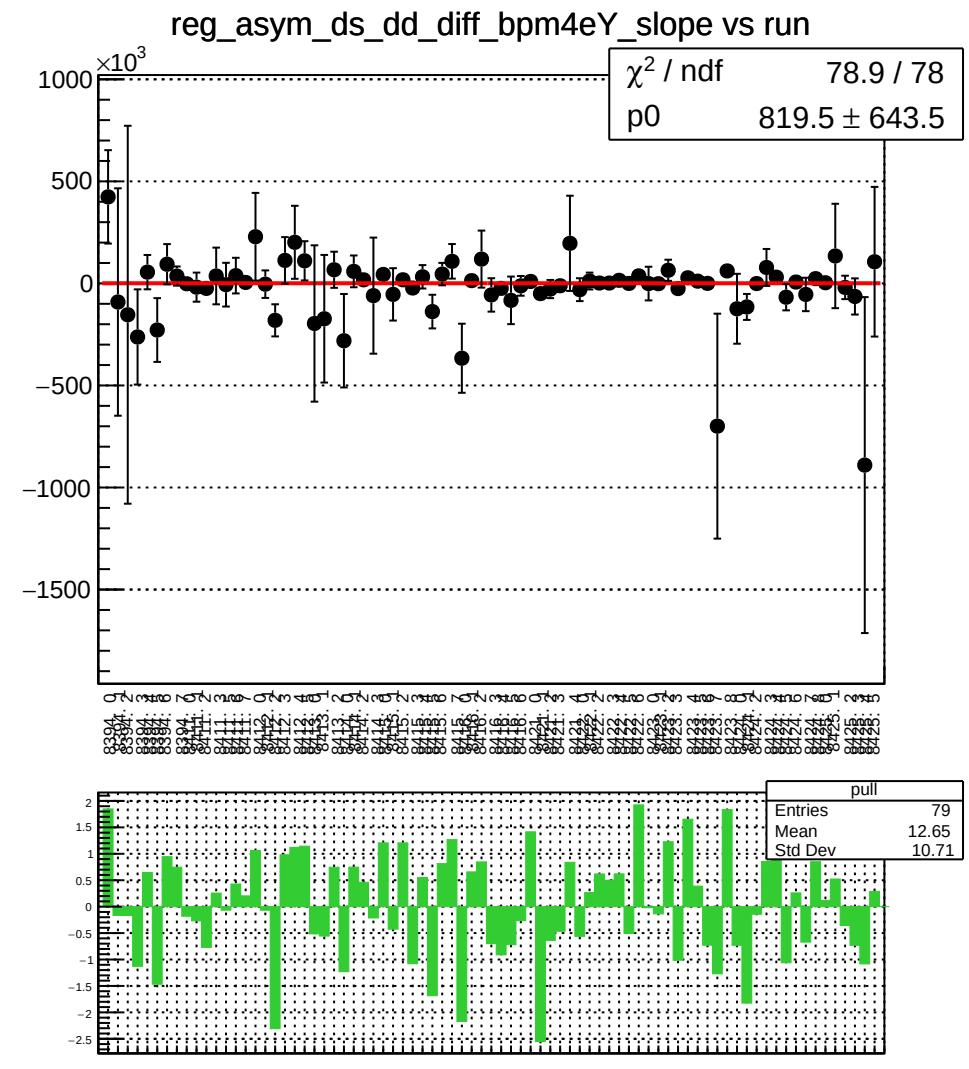

pull1D
Entries 81
Mean 0.02372
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

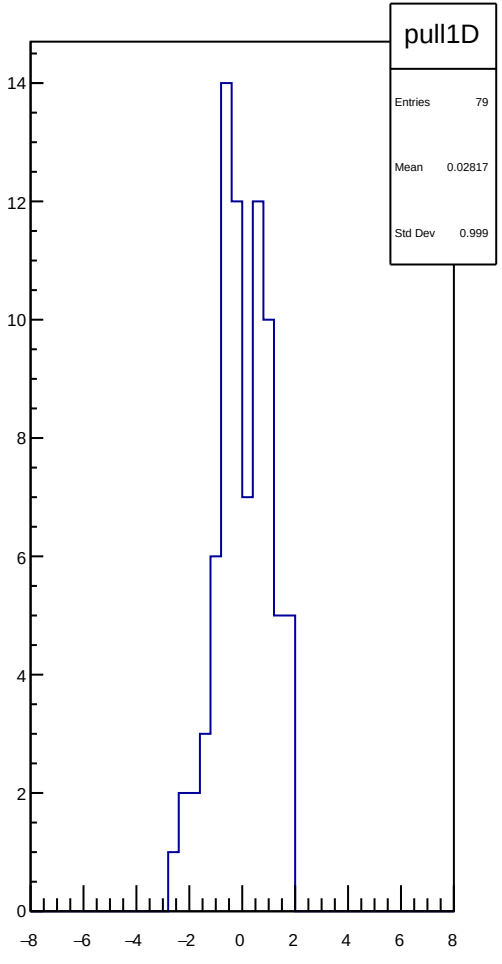

reg_asym_ds_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 88.85 / 80
p0 −14.33 ± 294.2
1000
500
0
−500
−1000
pull
Entries 81
Mean 57.7
Std Dev 32.09
2
1
0
−1
−2

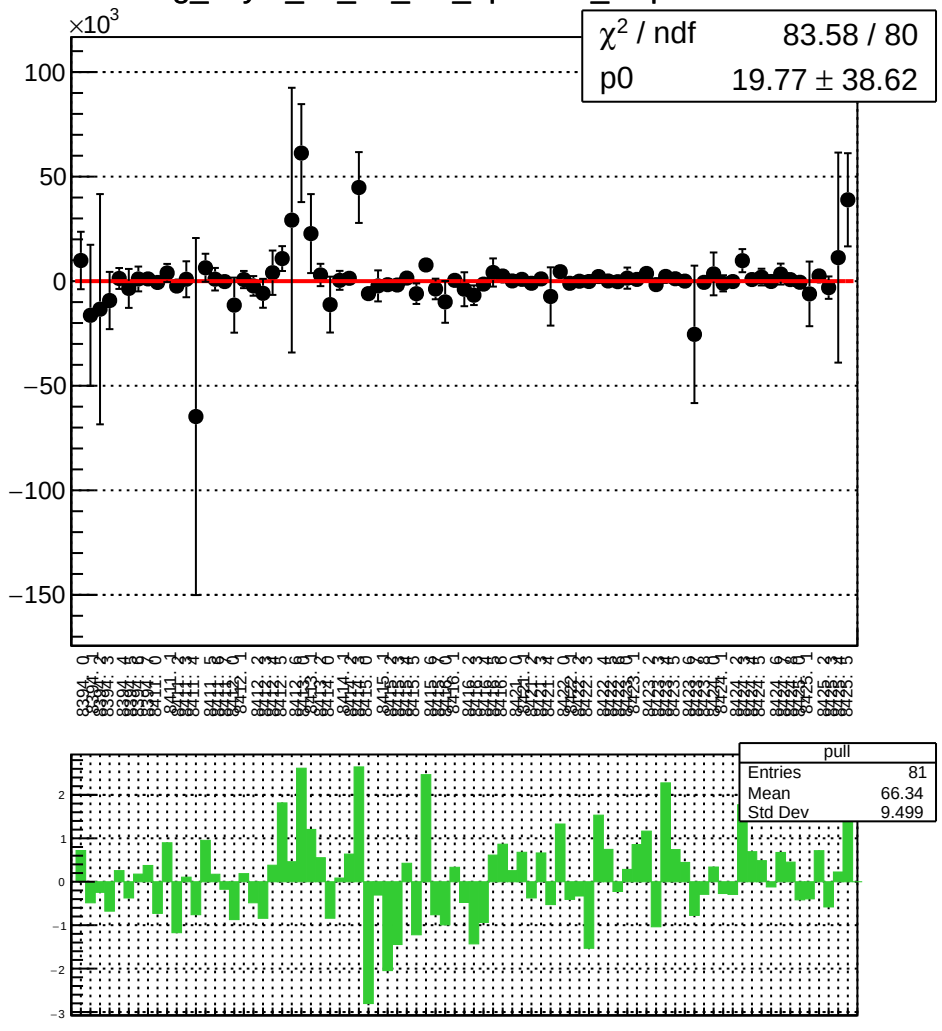

pull1D
Entries 81
Mean −0.1051
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

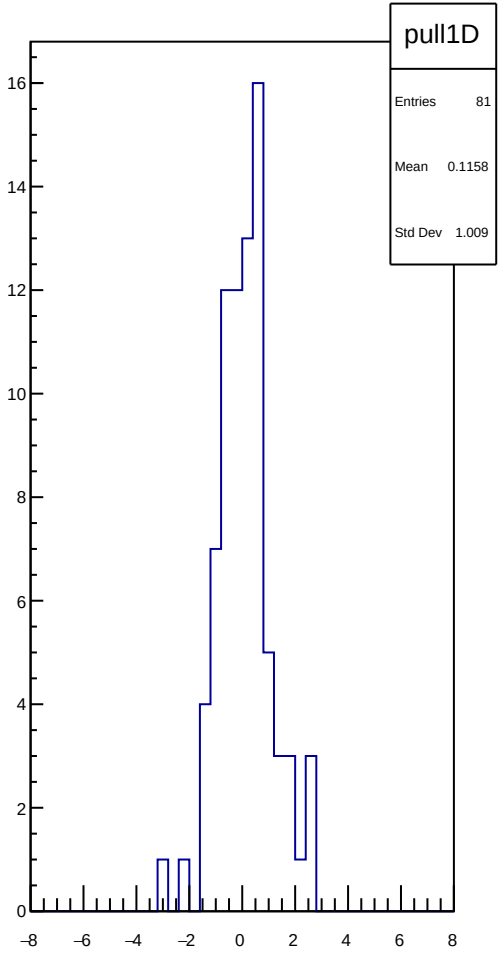

reg_asym_ds_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 82.61 / 78
p0 −758.9 ± 609.9
1500
1000
500
0
−500
pull
Entries 79
Mean 16.39
Std Dev 18.57
2
1
0
−1
−2
pull1D
Entries 79
Mean −0.02619
Std Dev 1.022
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

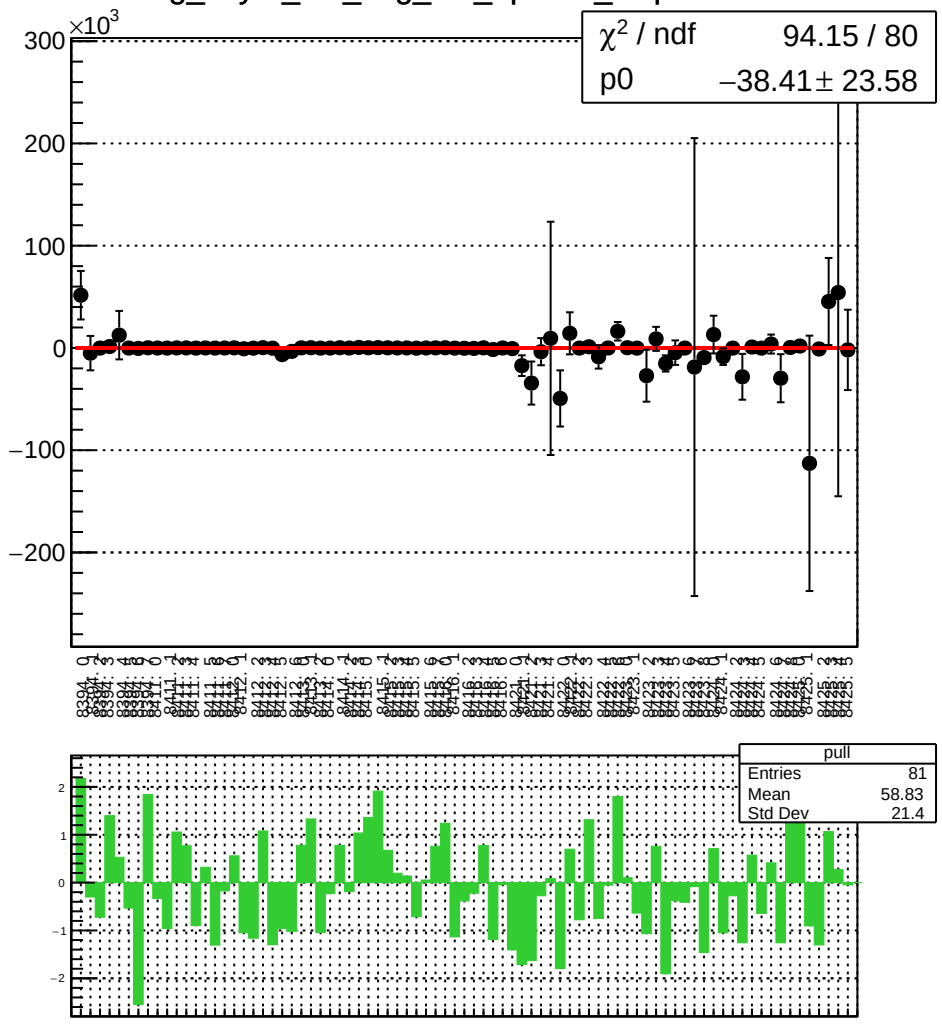

reg_asym_ds_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 88.25 / 80
p0 67.29 ± 333.1
1000
500
0
−500
−1000
pull
Entries 81
Mean 58.86
Std Dev 29.02
2
1
0
−1
−2
−3
pull1D
Entries 81
Mean 0.1194
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

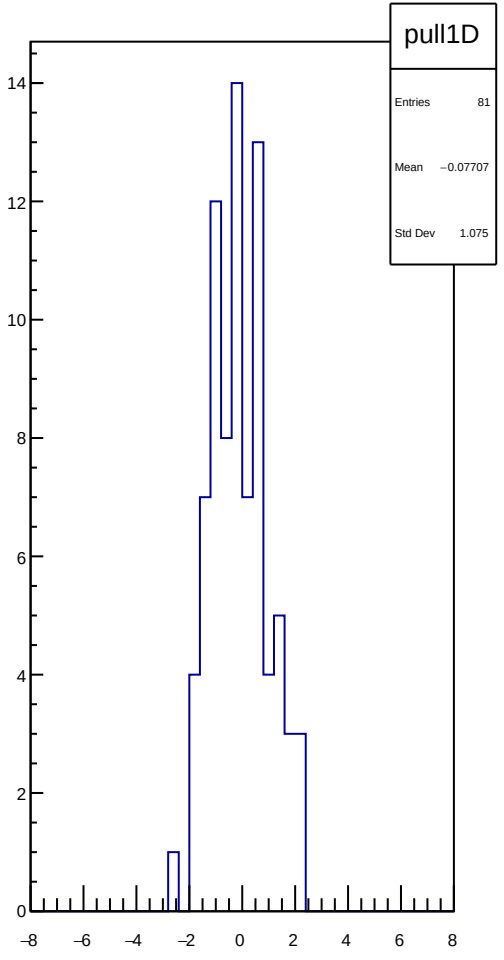

reg_asym_ds_dd_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 78.9 / 78
p0 819.5 ± 643.5
pull
Entries 79
Mean 12.65
Std Dev 10.71

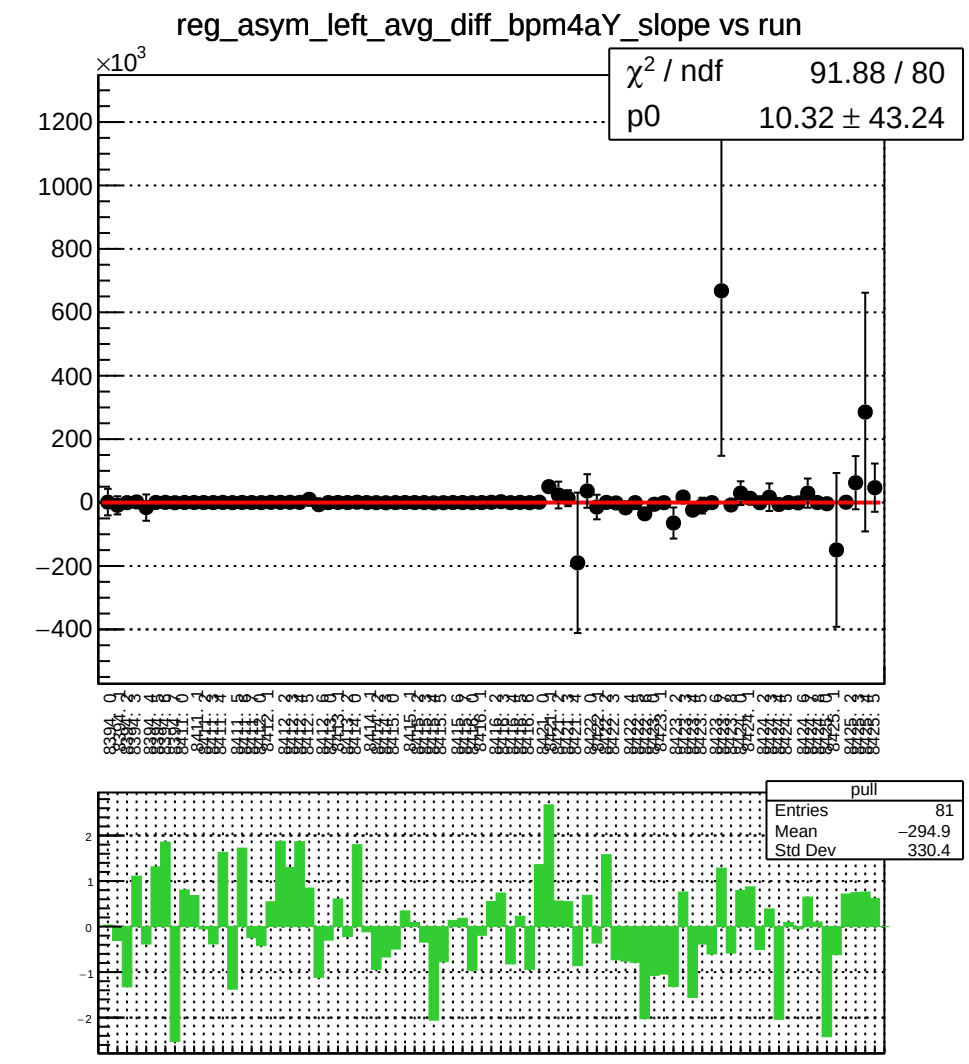

pull1D
Entries 79
Mean 0.02817
Std Dev 0.999

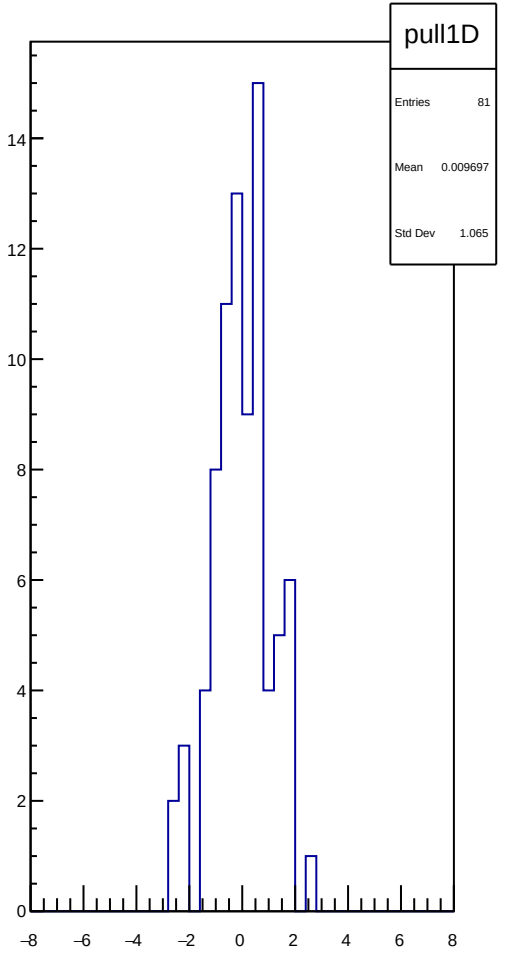

reg_asym_ds_dd_diff_bpm12X_slope vs run
×10^3
χ² / ndf 83.58 / 80
p0 19.77 ± 38.62
100
50
0
−50
−100
−150
pull
Entries 81
Mean 66.34
Std Dev 9.499
2
1
0
−1
−2
−3

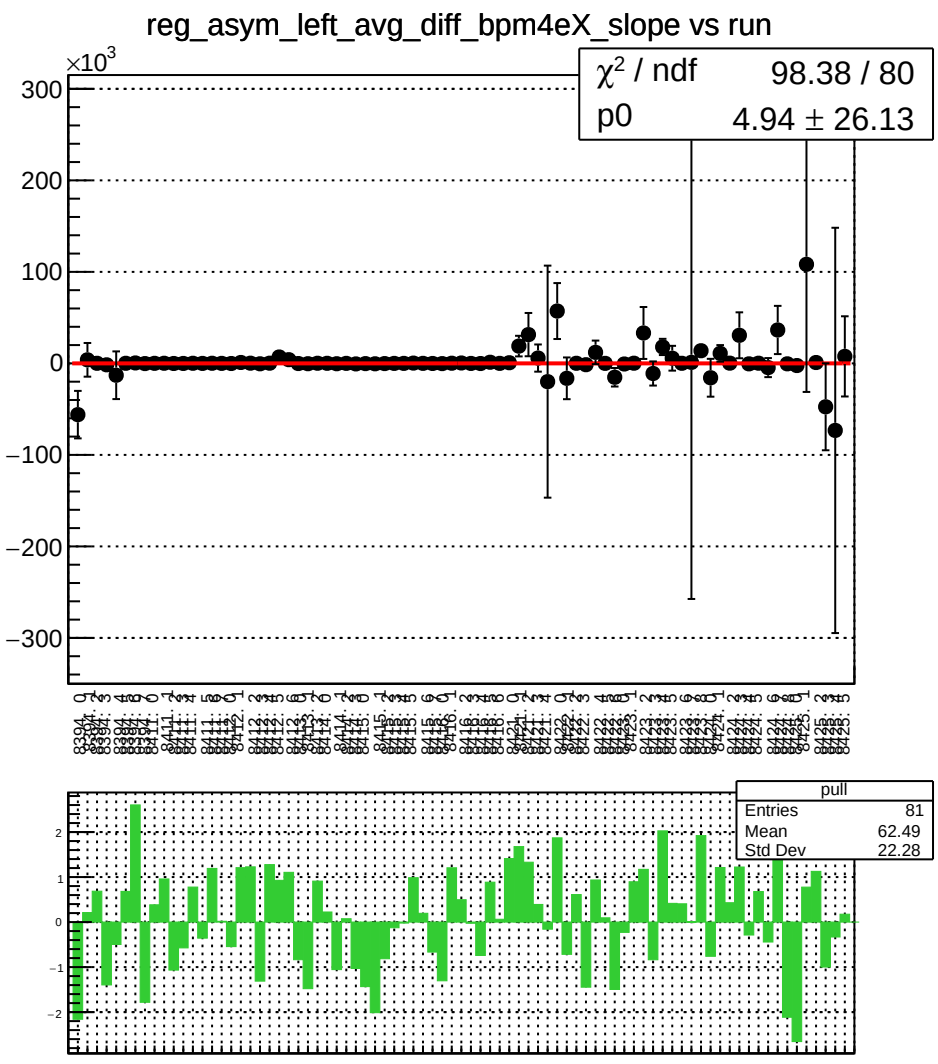

pull1D
Entries 81
Mean 0.1158
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

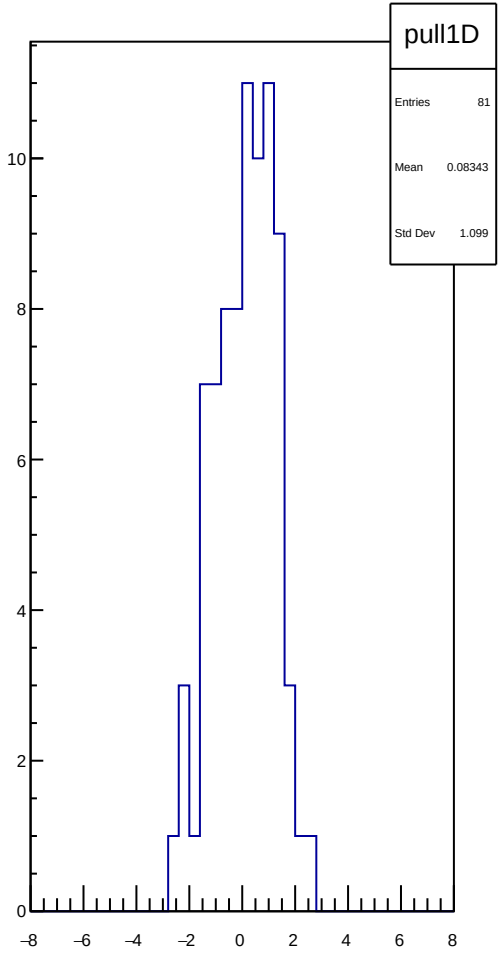

reg_asym_left_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 94.15 / 80
p0 −38.41 ± 23.58
pull
Entries 81
Mean 58.83
Std Dev 21.4

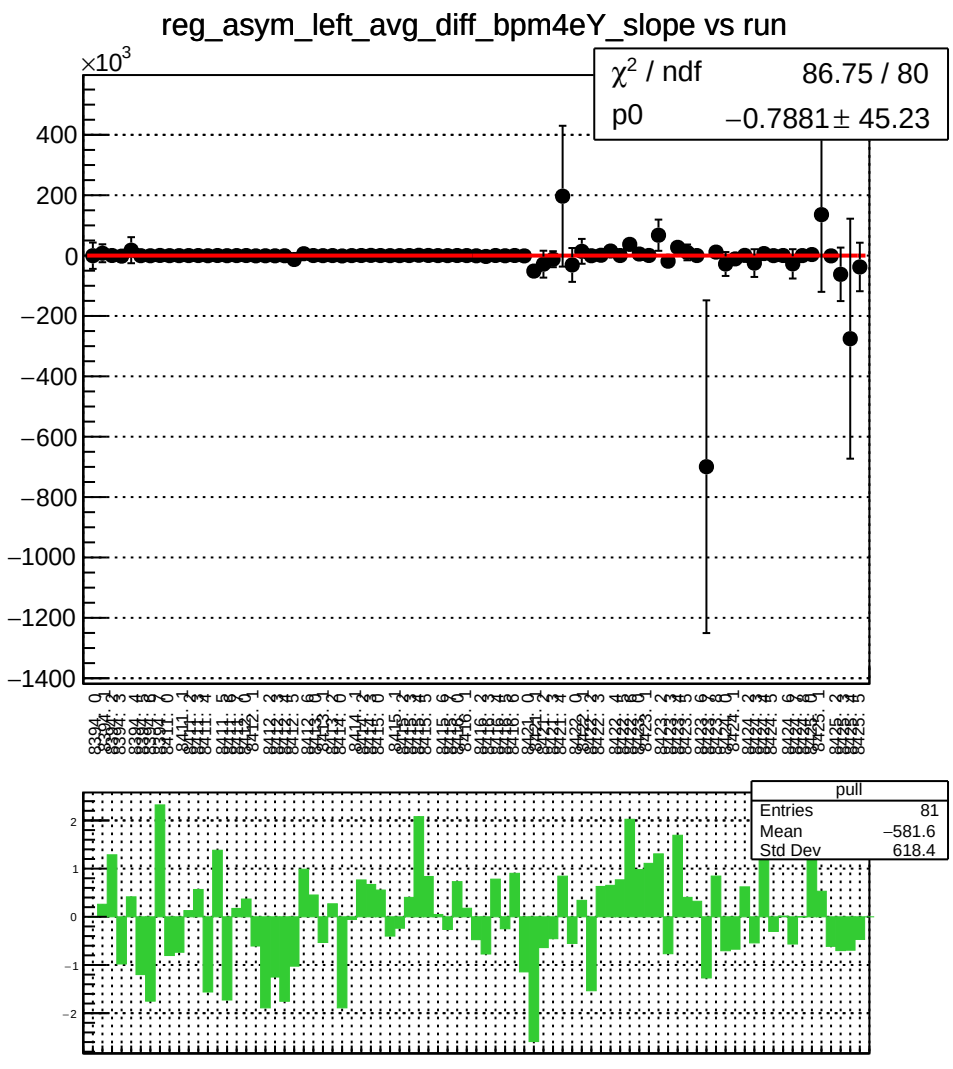

pull1D
Entries 81
Mean −0.07707
Std Dev 1.075

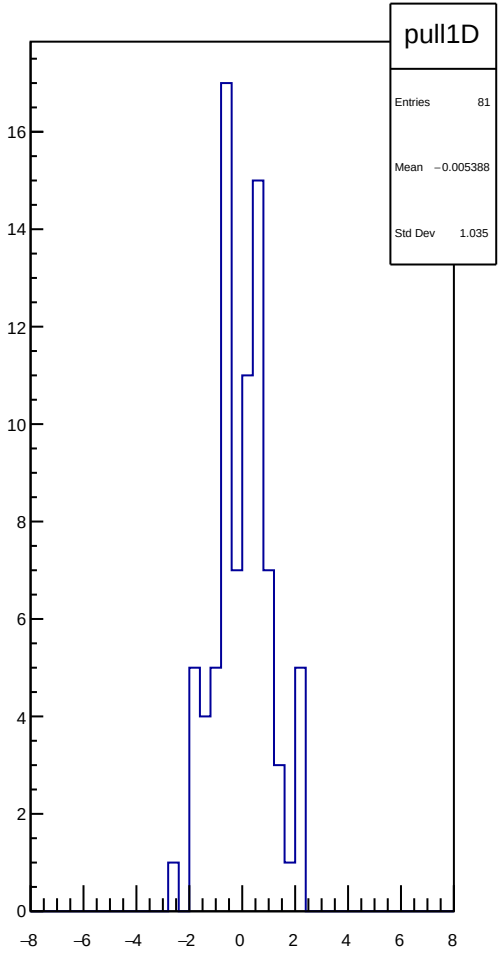

reg_asym_left_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 91.88 / 80
p0 10.32 ± 43.24
1200
1000
800
600
400
200
0
−200
−400
pull
Entries 81
Mean −294.9
Std Dev 330.4
2
1
0
−1
−2

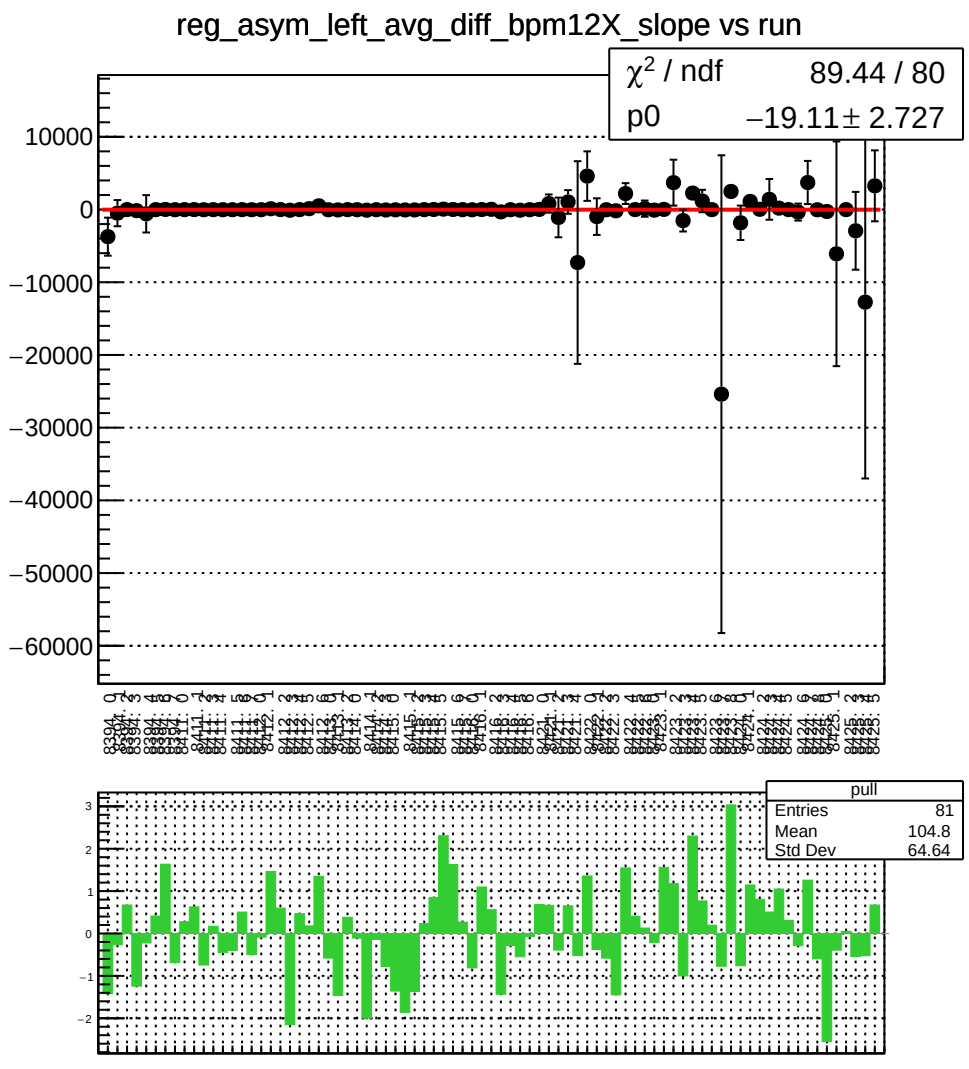

pull1D
Entries 81
Mean 0.009697
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

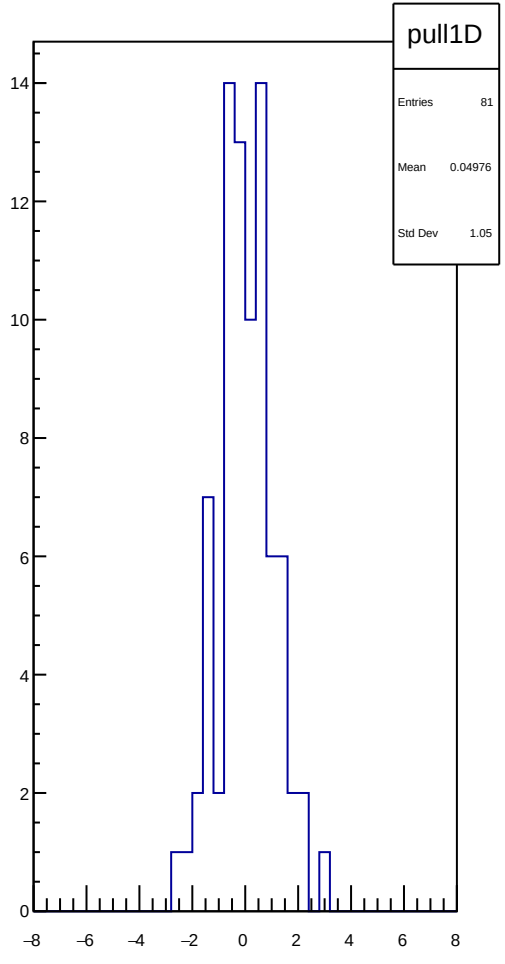

reg_asym_left_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 98.38 / 80
p0 4.94 ± 26.13
pull
Entries 81
Mean 62.49
Std Dev 22.28

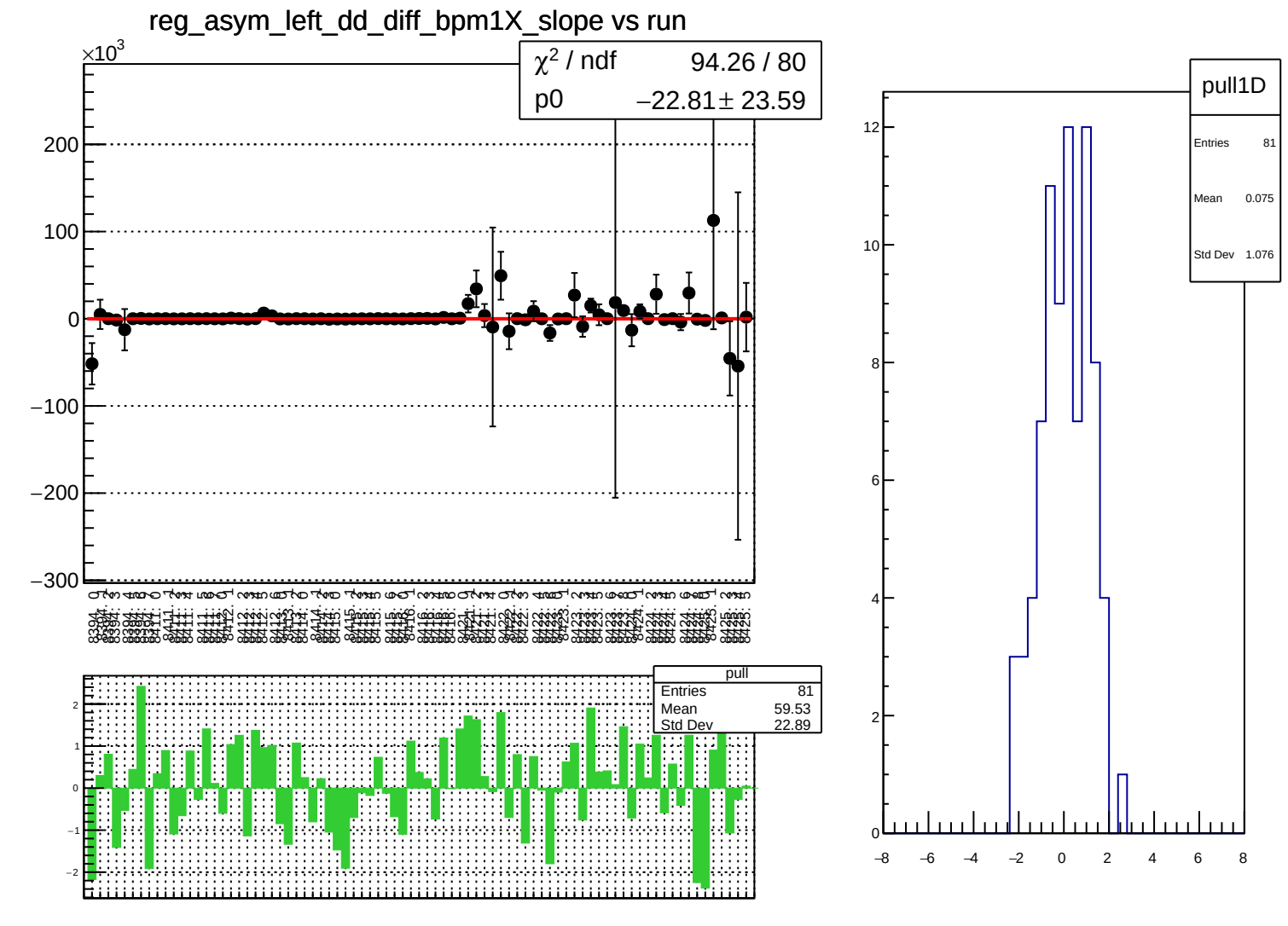

pull1D
Entries 81
Mean 0.08343
Std Dev 1.099

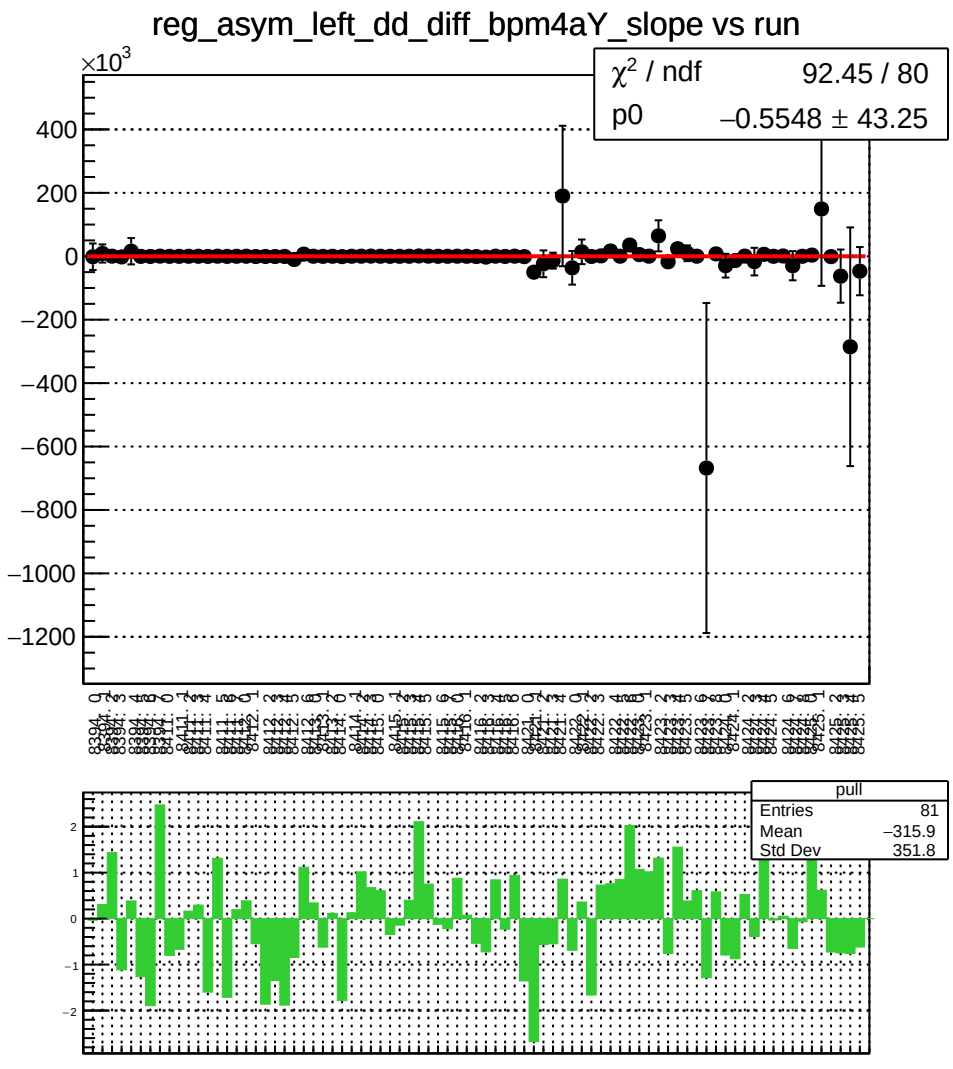

reg_asym_left_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 86.75 / 80
p0 −0.7881 ± 45.23
pull
Entries 81
Mean −581.6
Std Dev 618.4

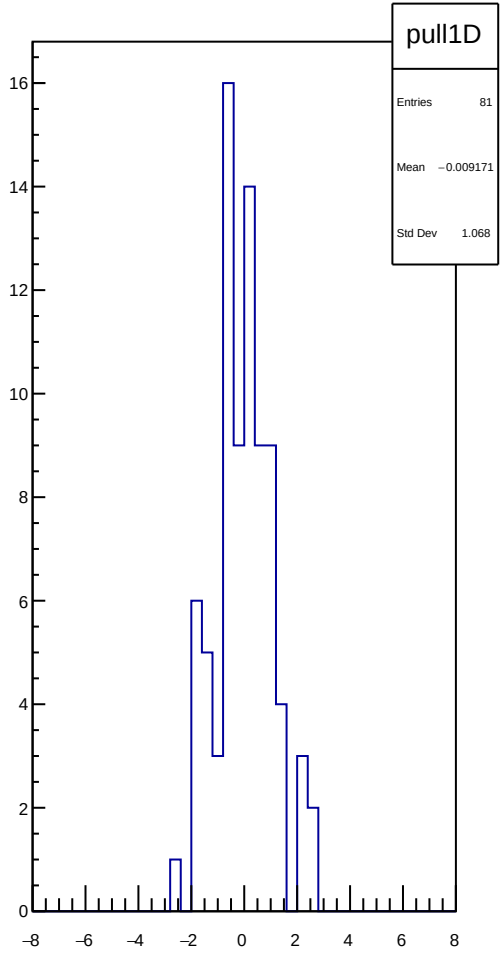

pull1D
Entries 81
Mean −0.005388
Std Dev 1.035

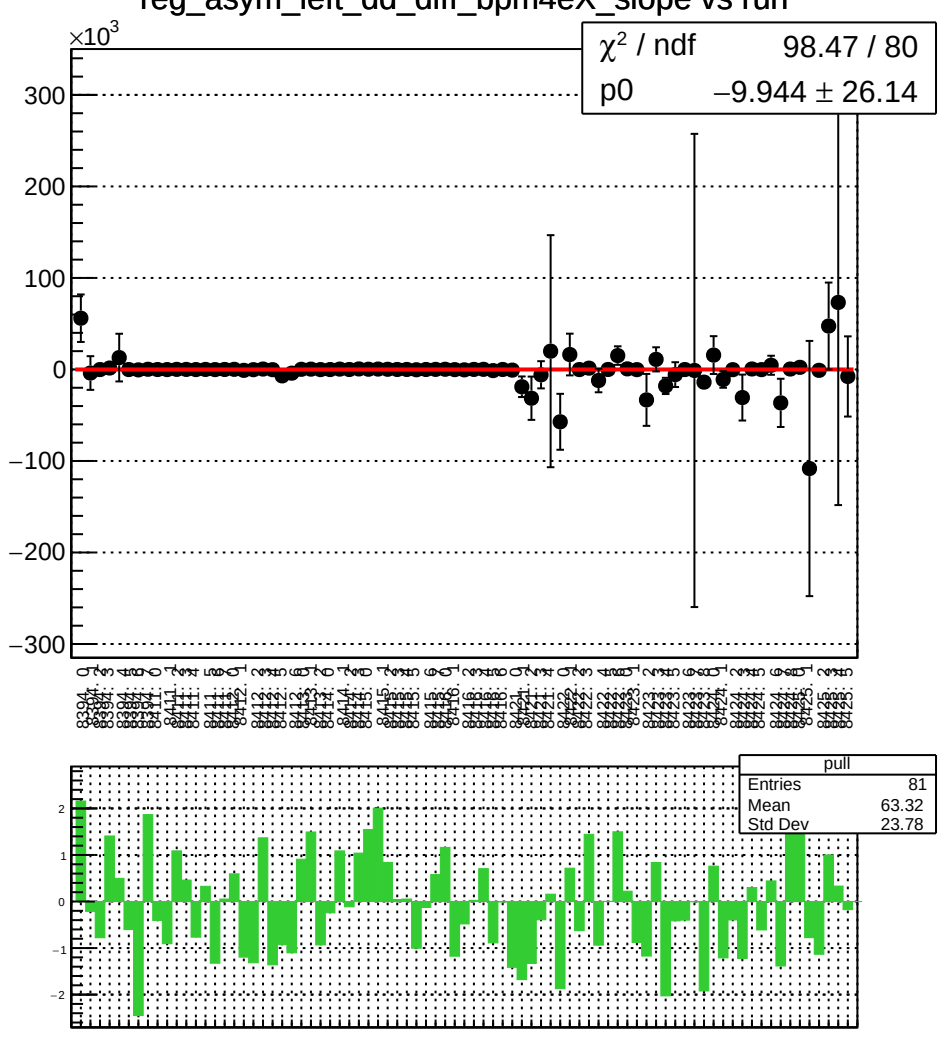

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 89.44 / 80
p0 −19.11 ± 2.727
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
pull
Entries 81
Mean 104.8
Std Dev 64.64
3
2
1
0
−1
−2

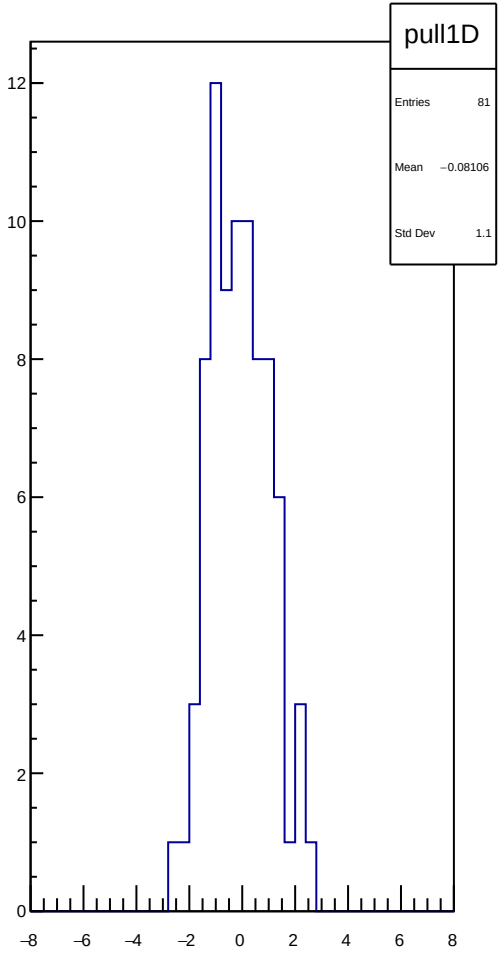

pull1D
Entries 81
Mean 0.04976
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

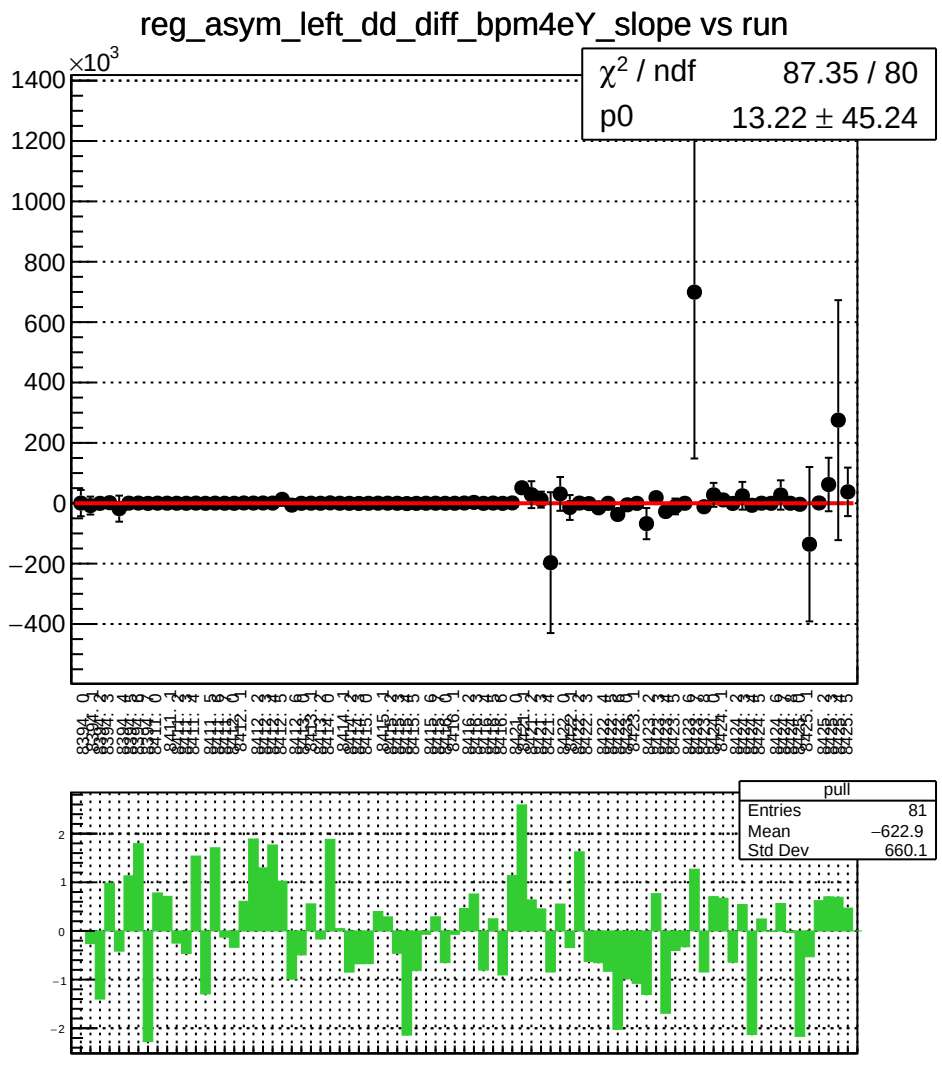

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 94.26 / 80
p0 −22.81 ± 23.59
×10³
200
100
0
−100
−200
−300
pull
Entries 81
Mean 59.53
Std Dev 22.89
pull1D
Entries 81
Mean 0.075
Std Dev 1.076

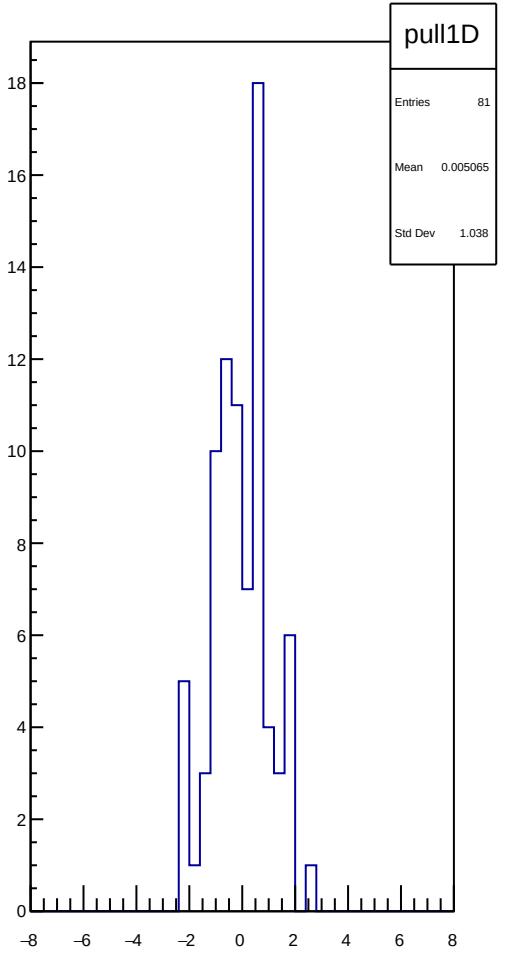

reg_asym_left_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 92.45 / 80
p0 −0.5548 ± 43.25
400
200
0
−200
−400
−600
−800
−1000
−1200
pull
Entries 81
Mean −315.9
Std Dev 351.8
2
1
0
−1
−2

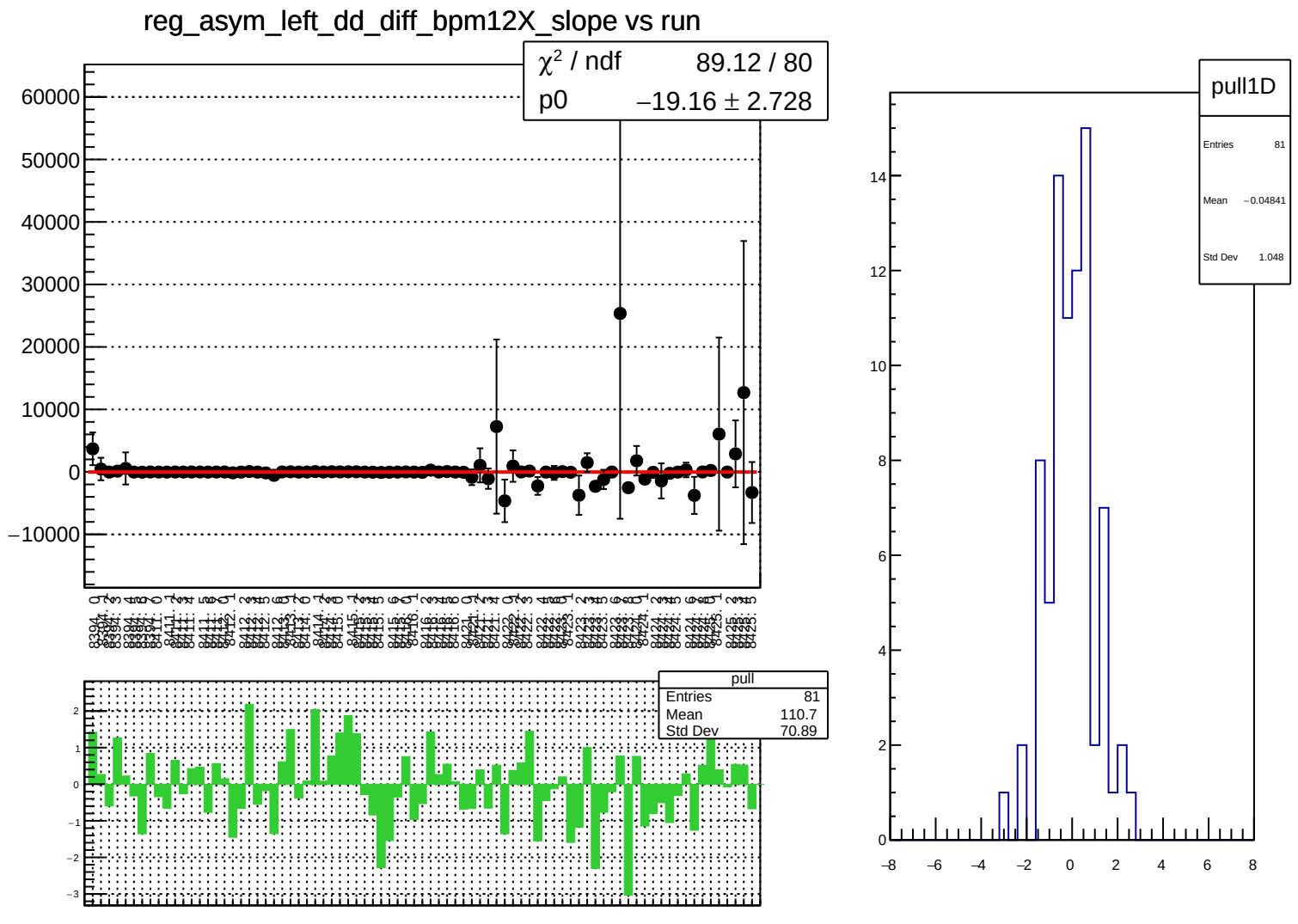

pull1D
Entries 81
Mean −0.009171
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

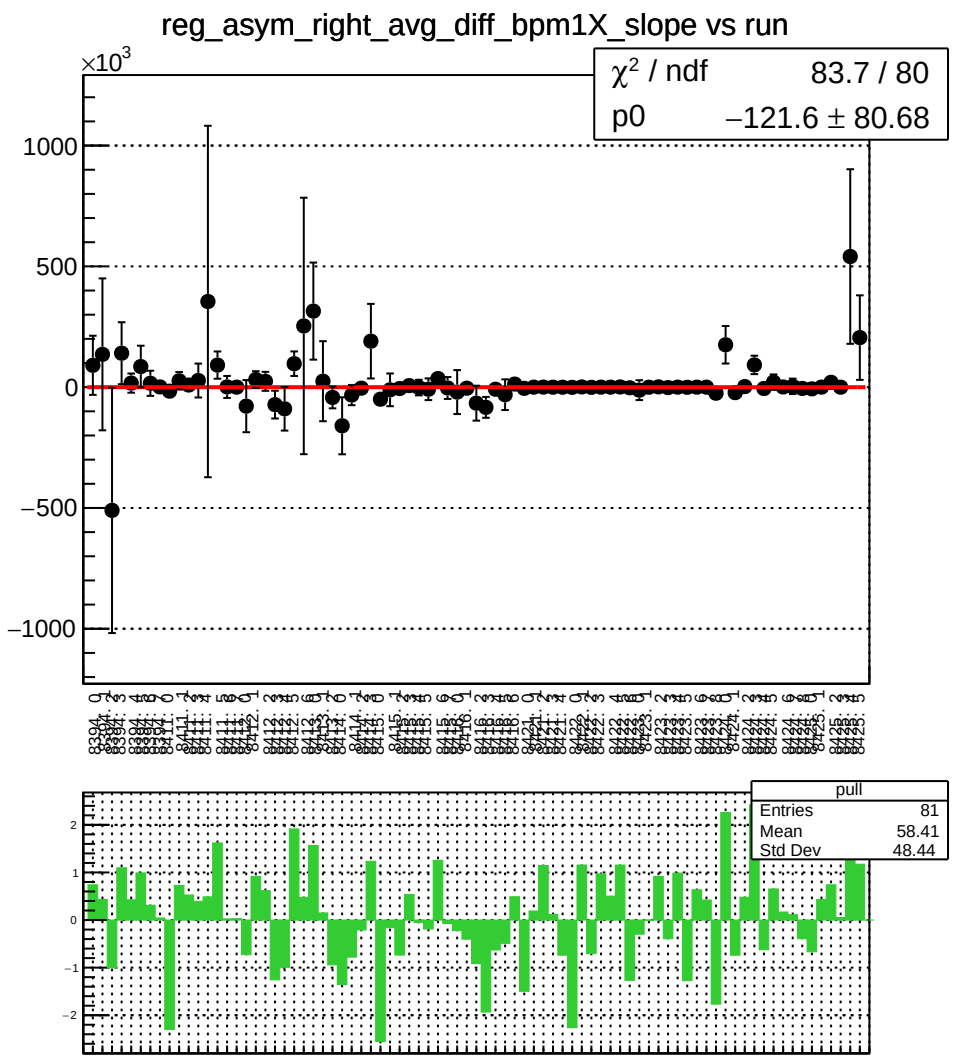

reg_asym_left_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 98.47 / 80
p0 −9.944 ± 26.14
pull
Entries 81
Mean 63.32
Std Dev 23.78

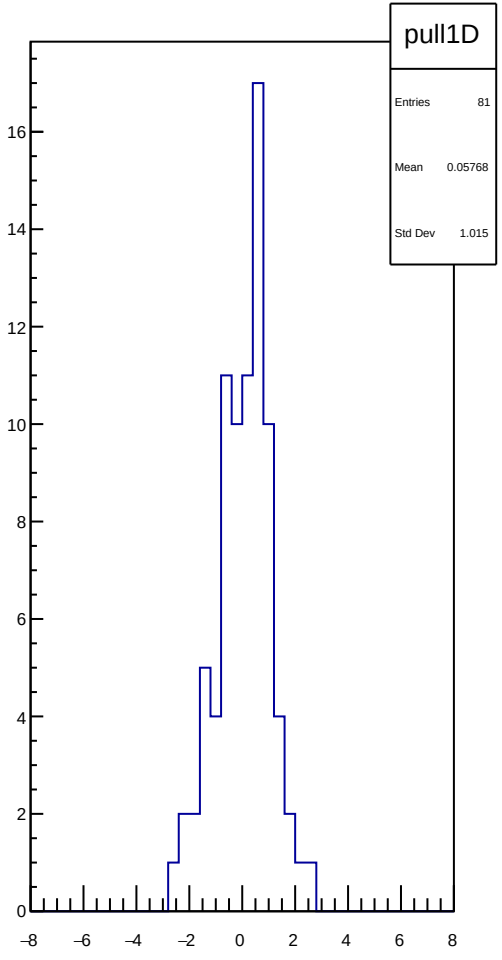

pull1D
Entries 81
Mean −0.08106
Std Dev 1.1

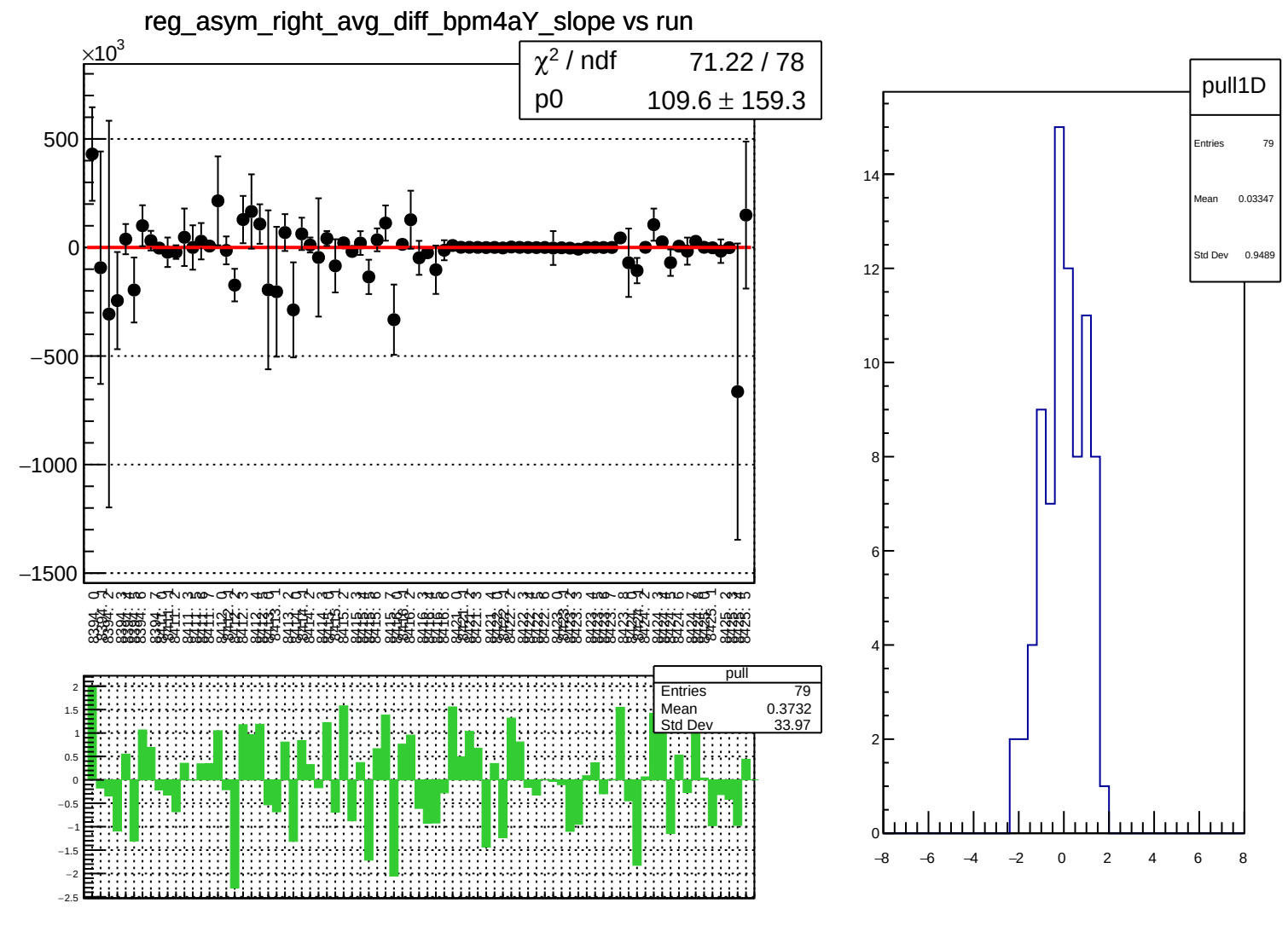

reg_asym_left_dd_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 87.35 / 80
p0 13.22 ± 45.24
pull
Entries 81
Mean −622.9
Std Dev 660.1

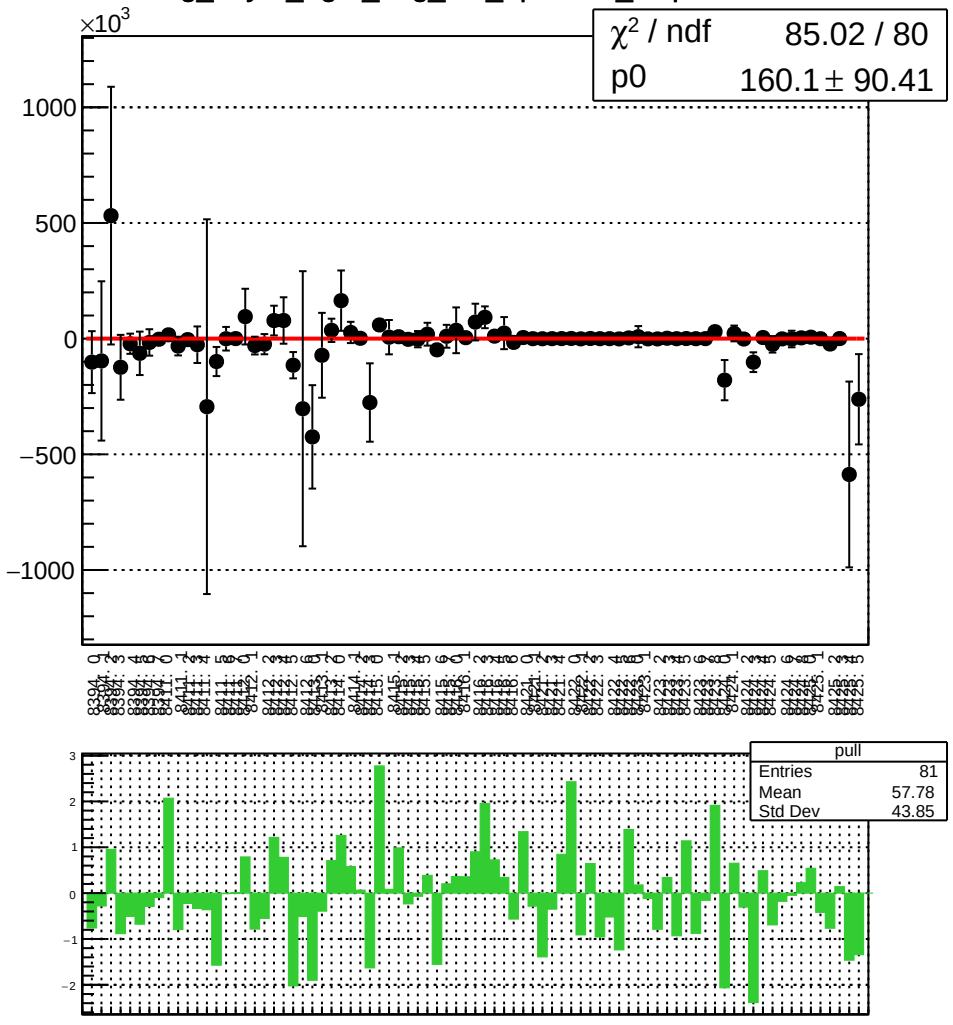

pull1D
Entries 81
Mean 0.005065
Std Dev 1.038

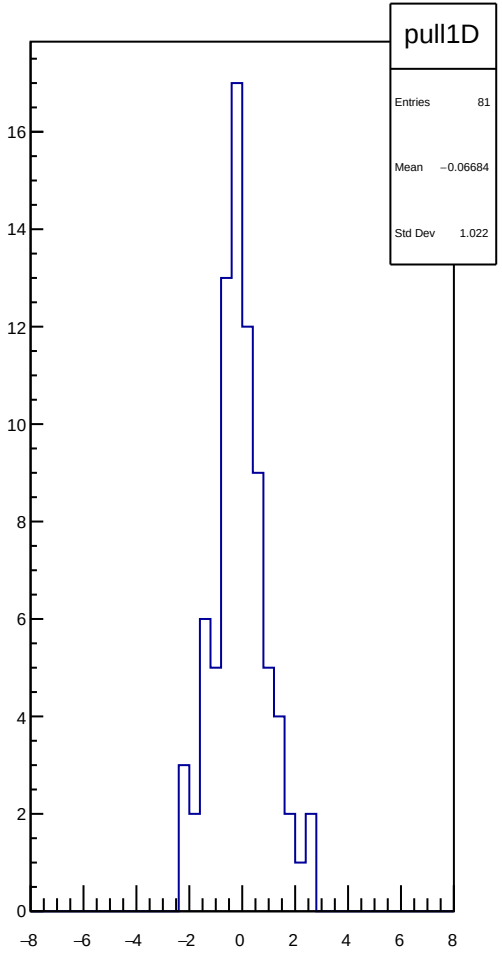

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 89.12 / 80
p0 −19.16 ± 2.728
pull
Entries 81
Mean 110.7
Std Dev 70.89
pull1D
Entries 81
Mean −0.04841
Std Dev 1.048

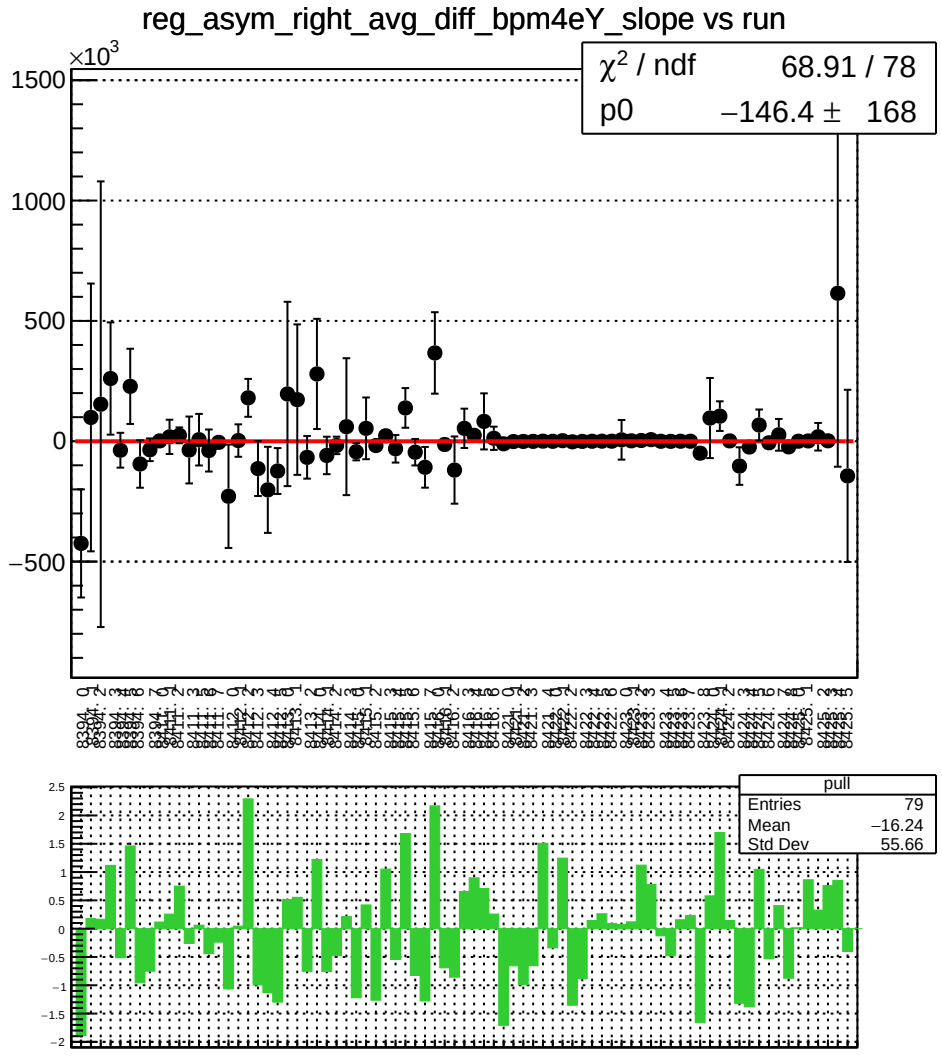

reg_asym_right_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 83.7 / 80
p0 −121.6 ± 80.68
1000
500
0
−500
−1000
pull
Entries 81
Mean 58.41
Std Dev 48.44
2
1
0
−1
−2

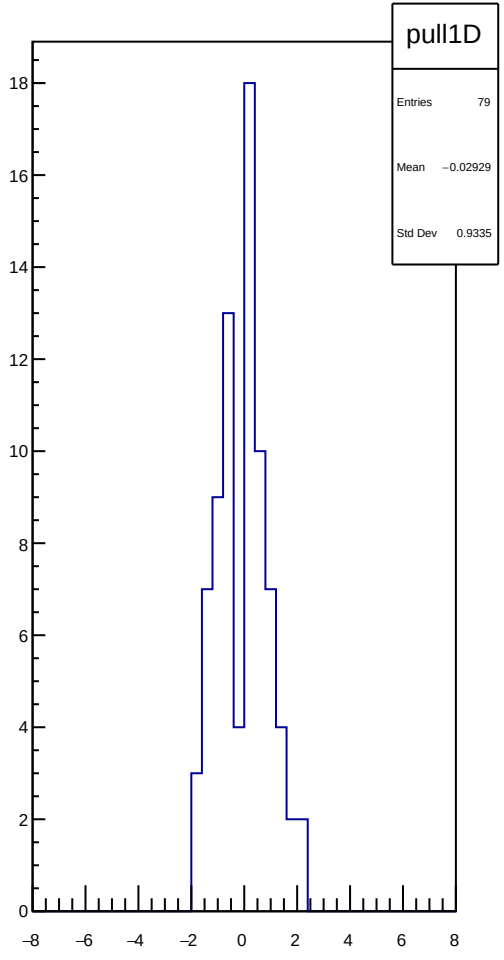

pull1D
Entries 81
Mean 0.05768
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

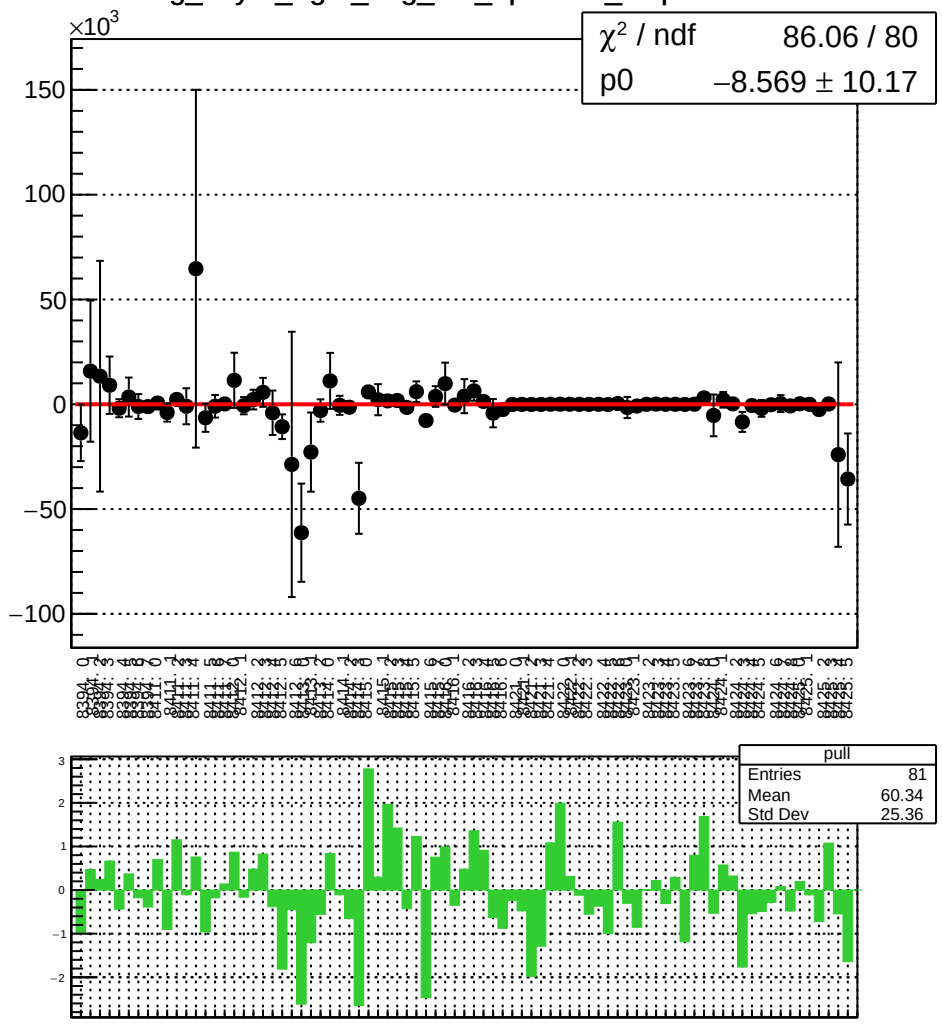

reg_asym_right_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 71.22 / 78
p0 109.6 ± 159.3
500
0
−500
−1000
−1500
pull
Entries 79
Mean 0.3732
Std Dev 33.97
pull1D
Entries 79
Mean 0.03347
Std Dev 0.9489

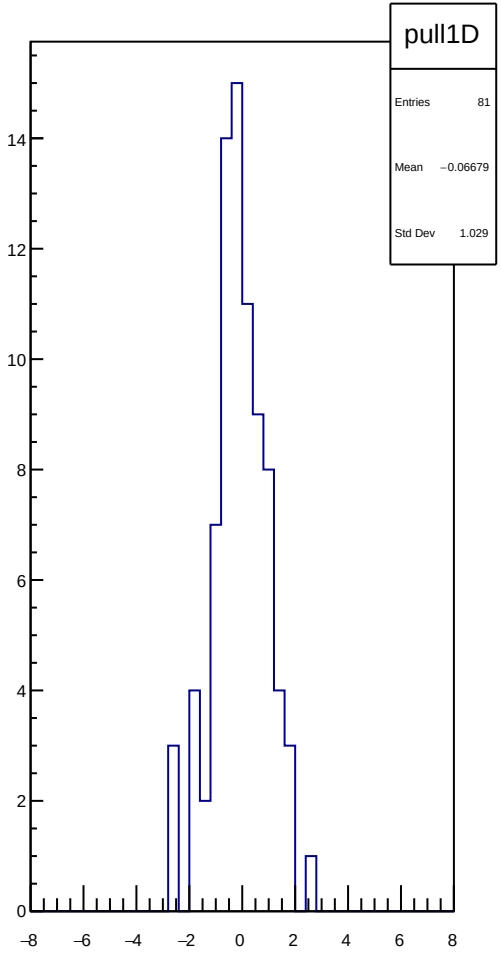

reg_asym_right_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 85.02 / 80
p0 160.1 ± 90.41
1000
500
0
−500
−1000
pull
Entries 81
Mean 57.78
Std Dev 43.85
3
2
1
0
−1
−2

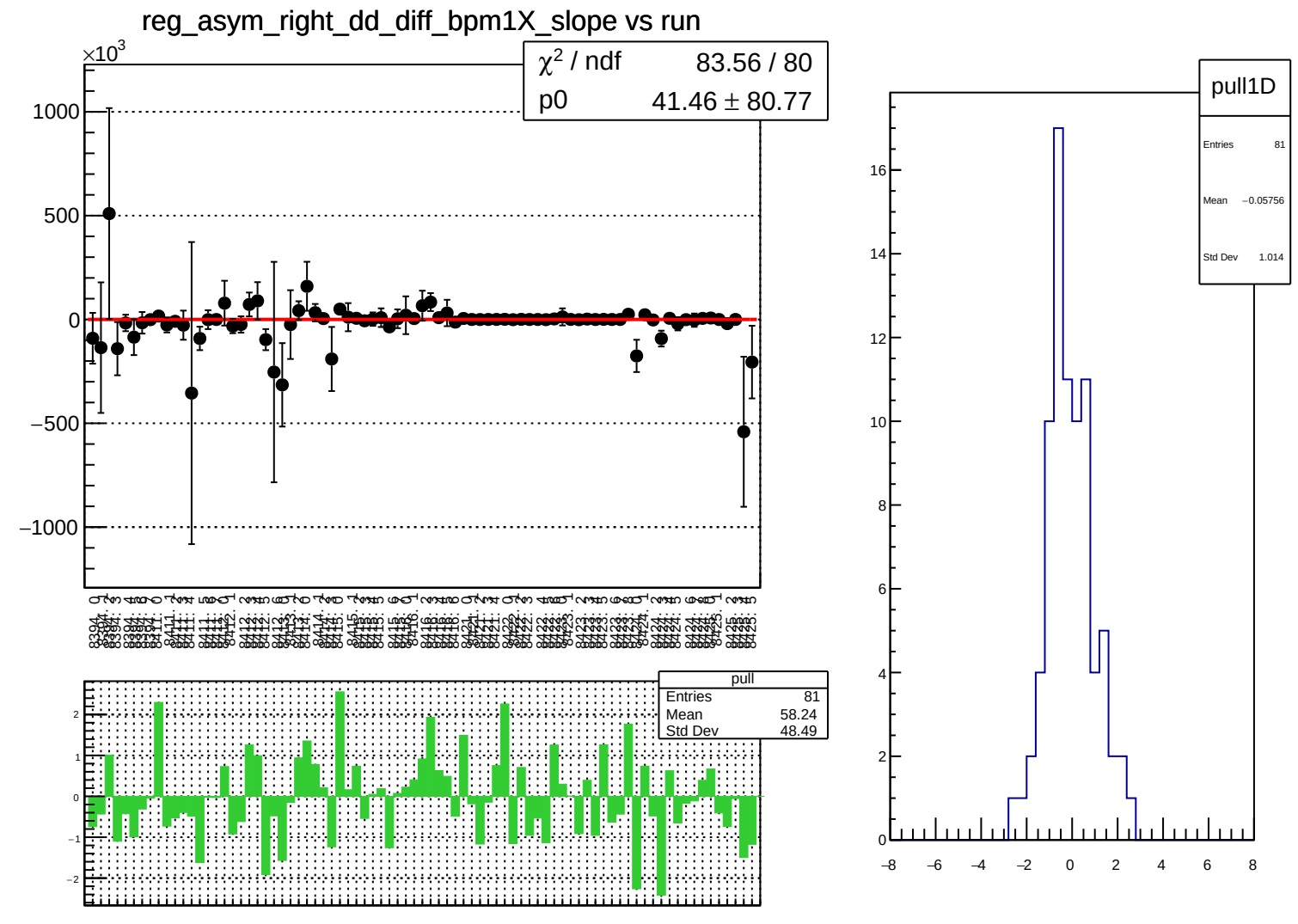

pull1D
Entries 81
Mean −0.06684
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

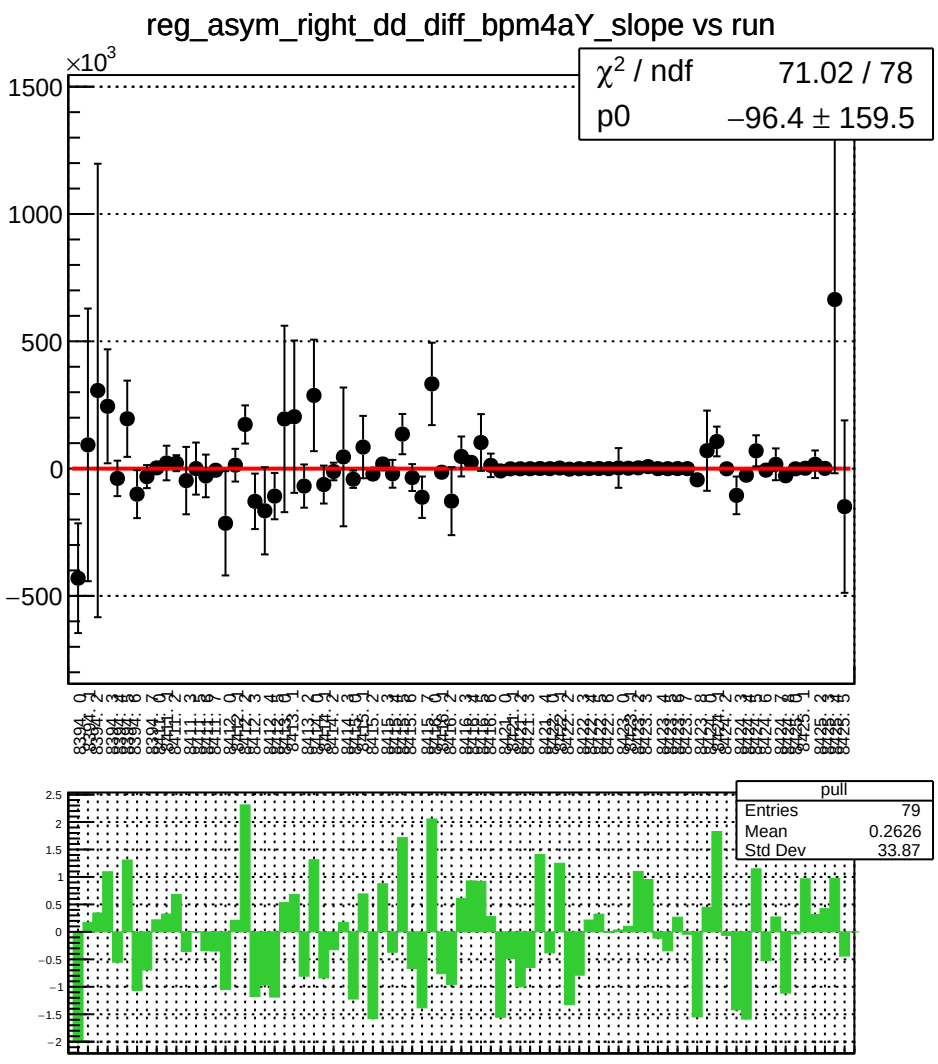

reg_asym_right_avg_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 68.91 / 78
p0 −146.4 ± 168
pull
Entries 79
Mean −16.24
Std Dev 55.66

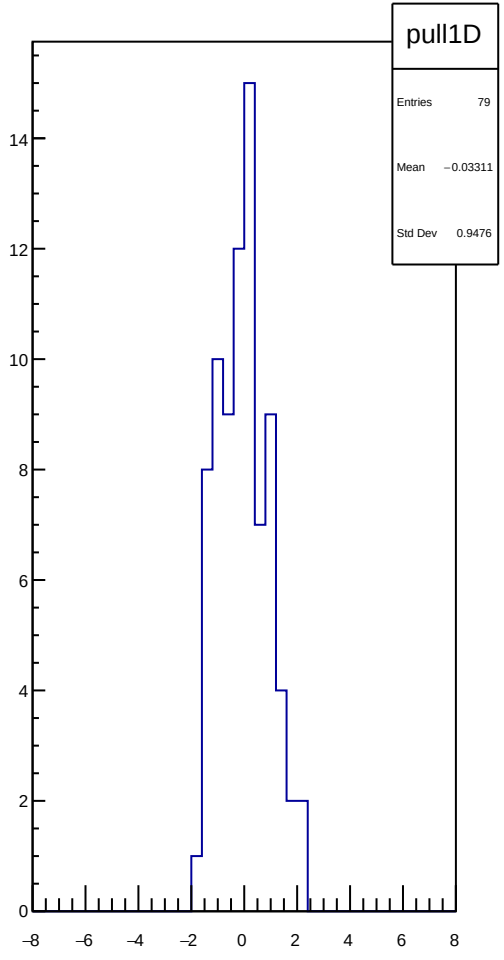

pull1D
Entries 79
Mean −0.02929
Std Dev 0.9335

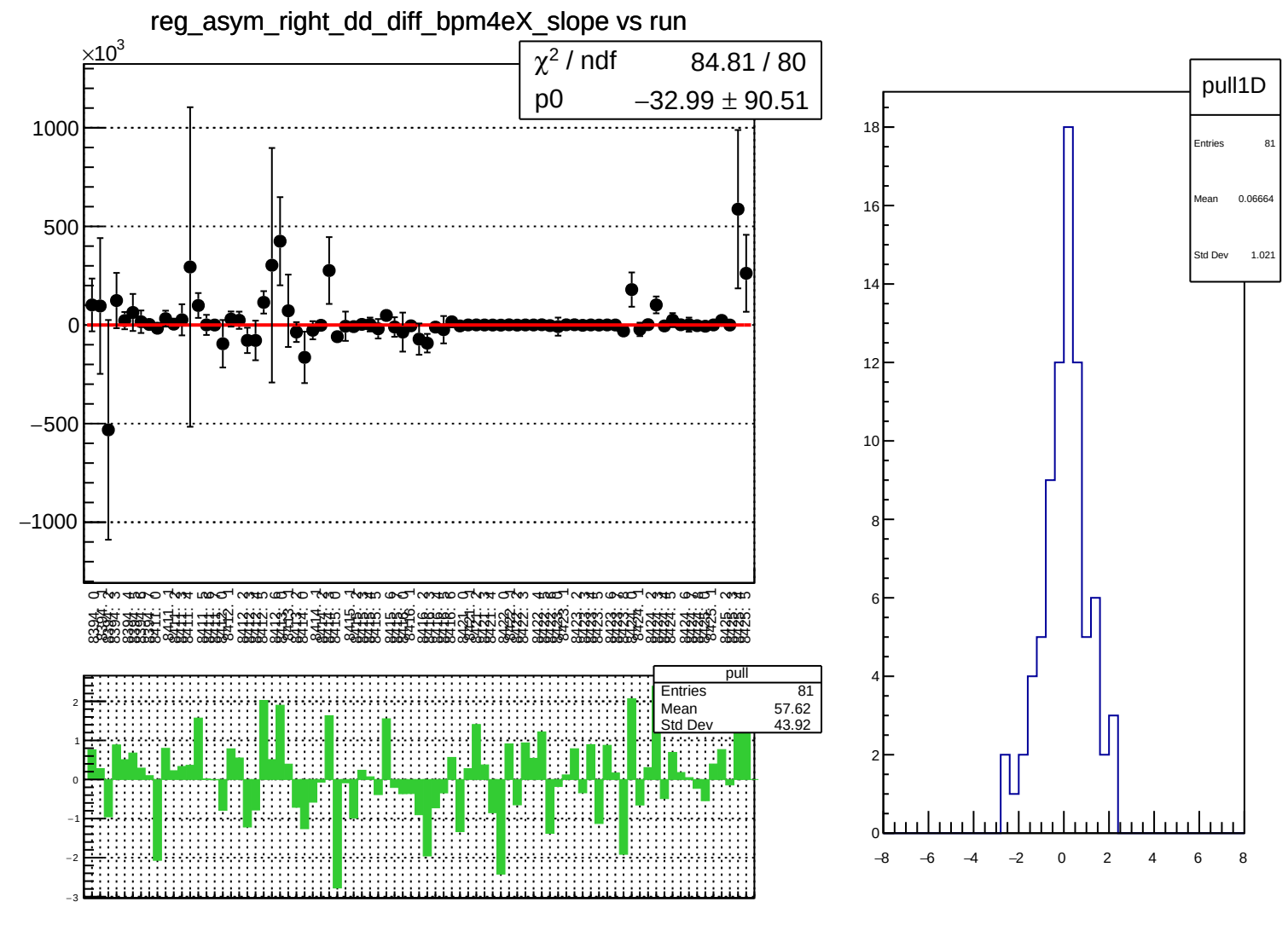

reg_asym_right_avg_diff_bpm12X_slope vs run
×10^3
χ² / ndf 86.06 / 80
p0 −8.569 ± 10.17
150
100
50
0
−50
−100
pull
Entries 81
Mean 60.34
Std Dev 25.36
3
2
1
0
−1
−2

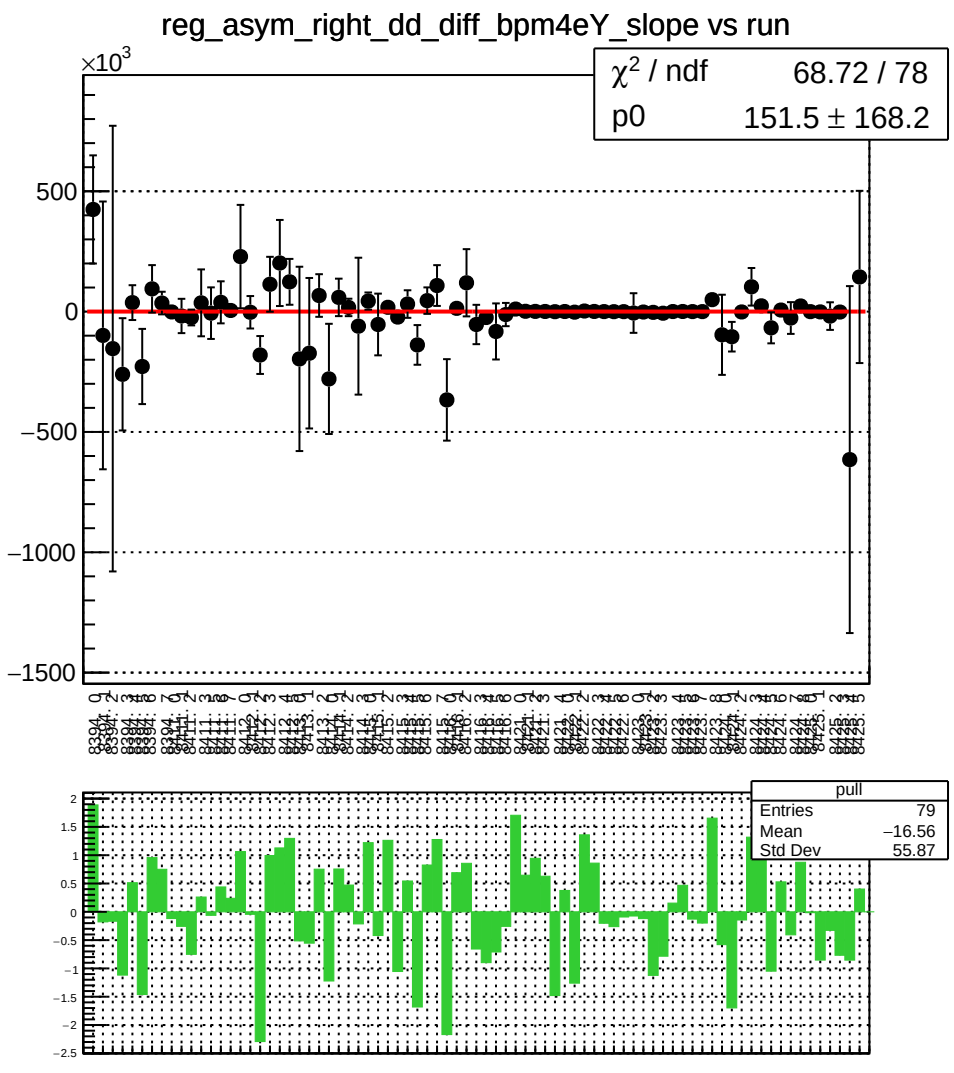

pull1D
Entries 81
Mean −0.06679
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

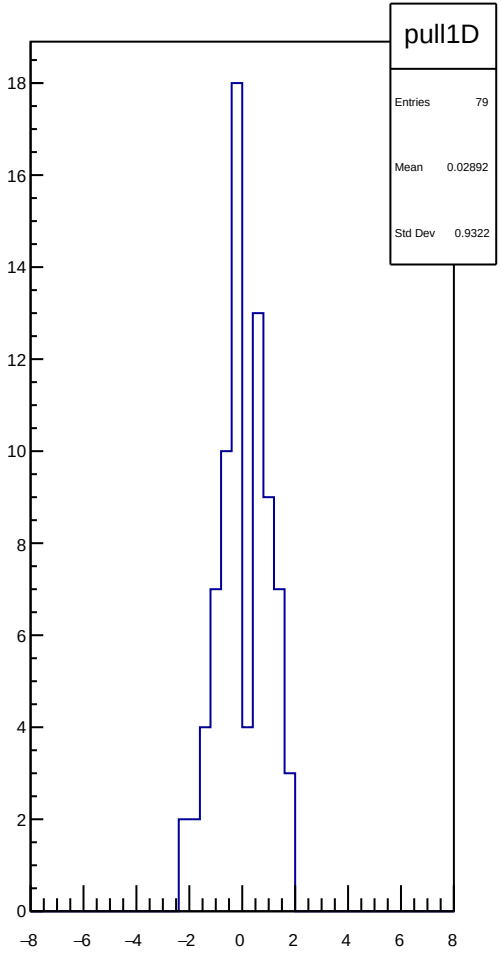

reg_asym_right_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 83.56 / 80
p0 41.46 ± 80.77
1000
500
0
−500
−1000
pull
Entries 81
Mean 58.24
Std Dev 48.49
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.05756
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

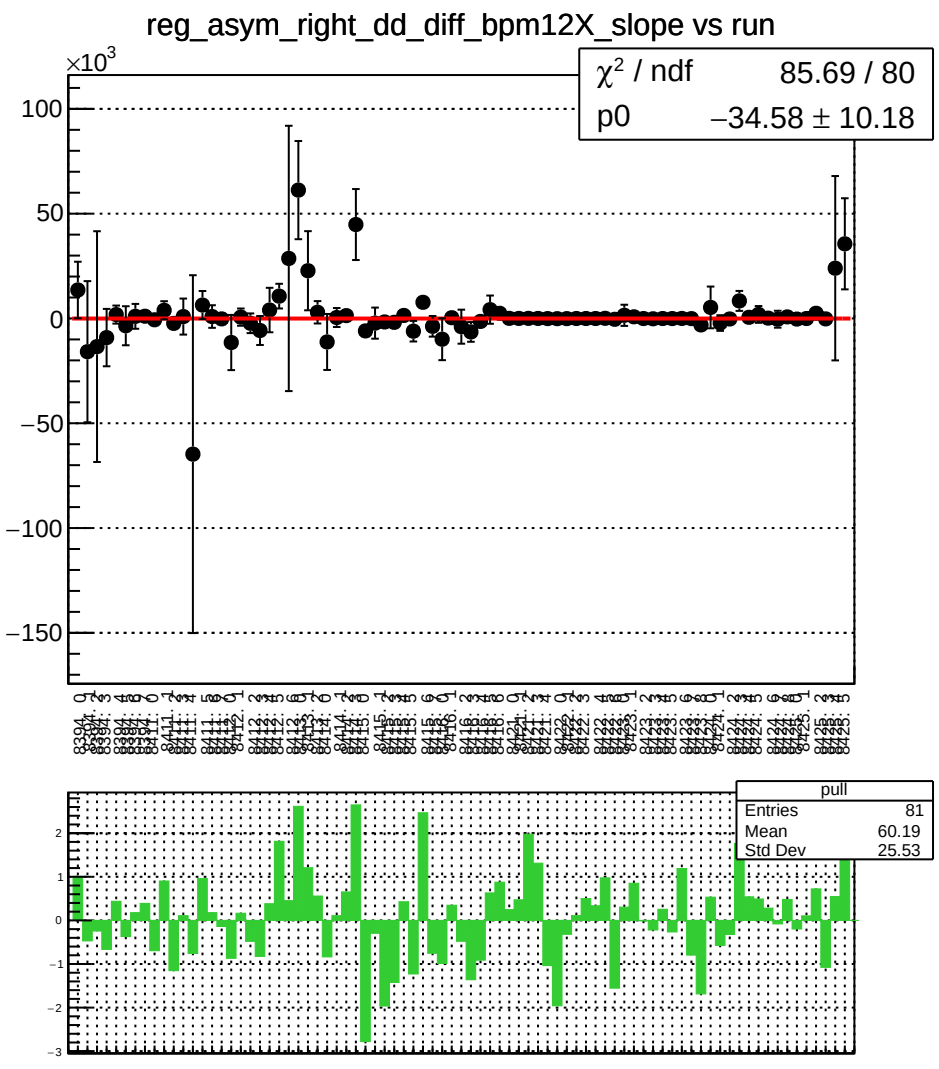

reg_asym_right_dd_diff_bpm4aY_slope vs run
×10^3
1500
1000
500
0
−500
χ² / ndf 71.02 / 78
p0 −96.4 ± 159.5
pull
Entries 79
Mean 0.2626
Std Dev 33.87
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

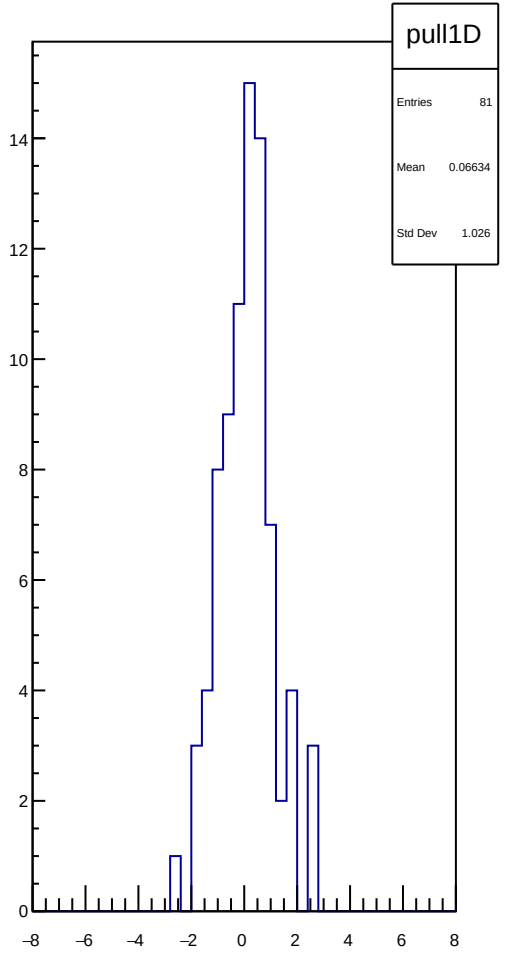

pull1D
Entries 79
Mean −0.03311
Std Dev 0.9476
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

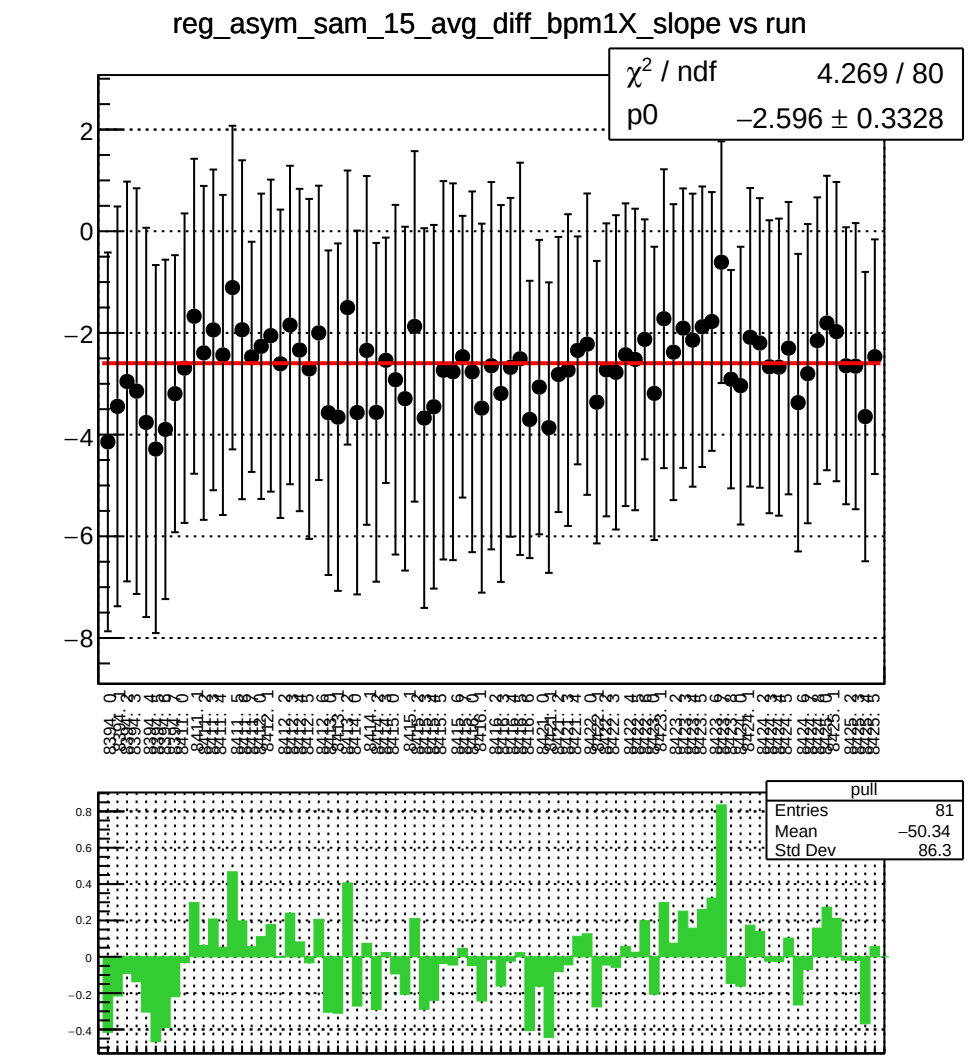

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.81 / 80
p0 −32.99 ± 90.51
×10³
1000
500
0
−500
−1000
pull
Entries 81
Mean 57.62
Std Dev 43.92
pull1D
Entries 81
Mean 0.06664
Std Dev 1.021

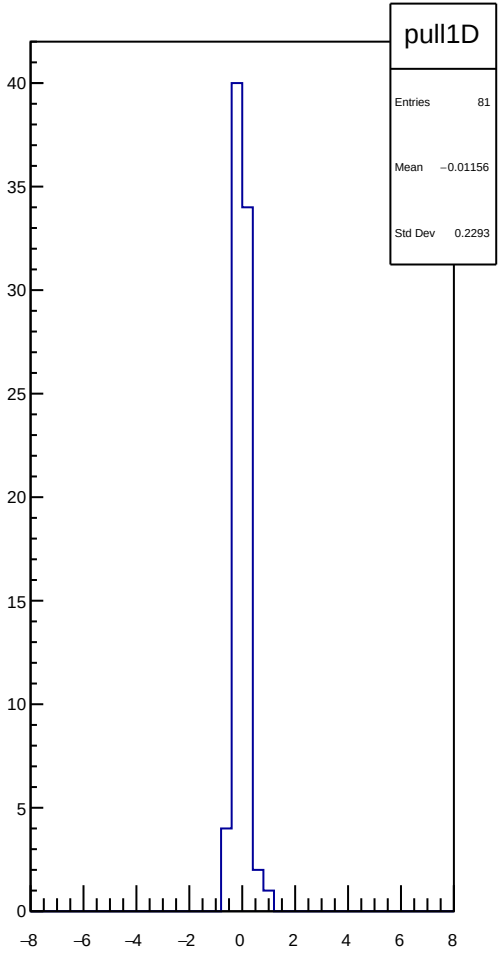

reg_asym_right_dd_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 68.72 / 78
p0 151.5 ± 168.2
500
0
−500
−1000
−1500
pull
Entries 79
Mean −16.56
Std Dev 55.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

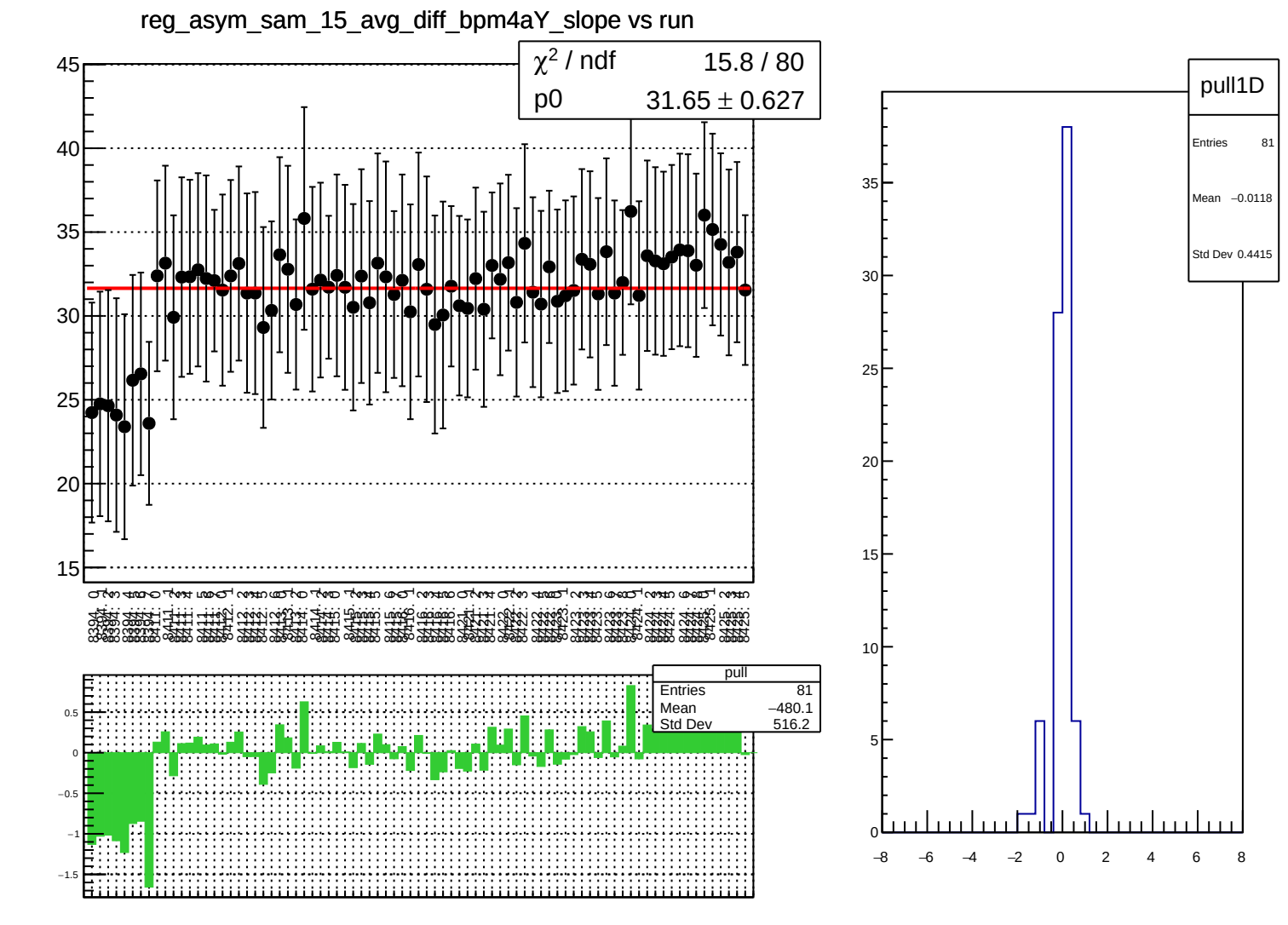

pull1D
Entries 79
Mean 0.02892
Std Dev 0.9322
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

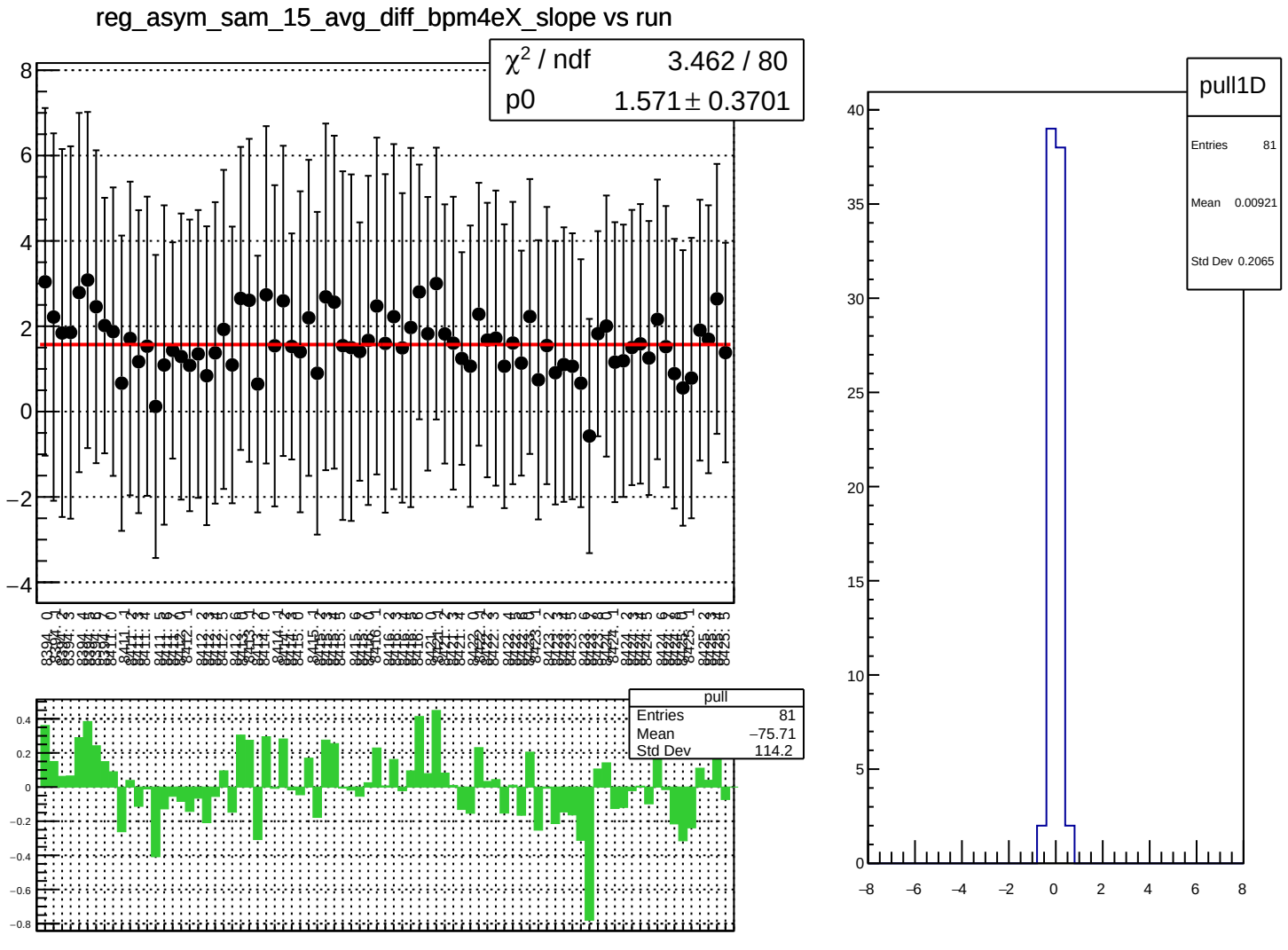

reg_asym_right_dd_diff_bpm12X_slope vs run
×10^3
χ² / ndf 85.69 / 80
p0 −34.58 ± 10.18
pull
Entries 81
Mean 60.19
Std Dev 25.53

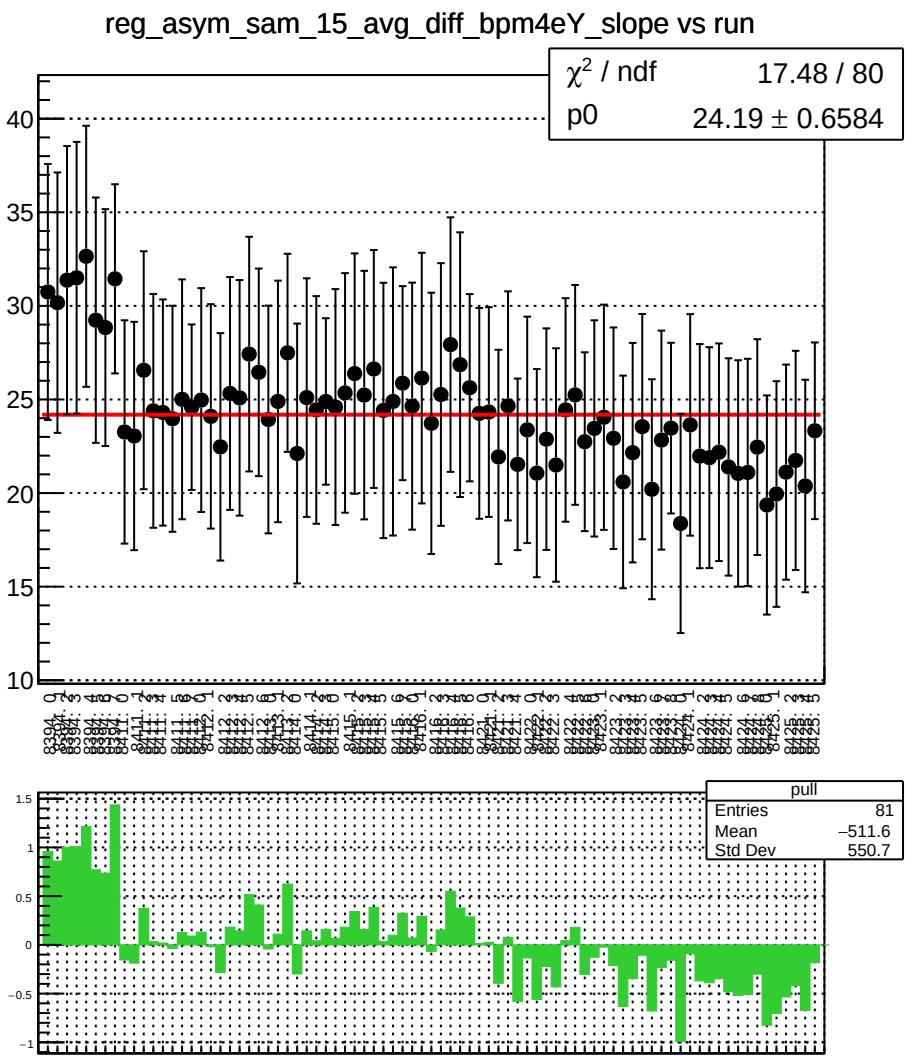

pull1D
Entries 81
Mean 0.06634
Std Dev 1.026

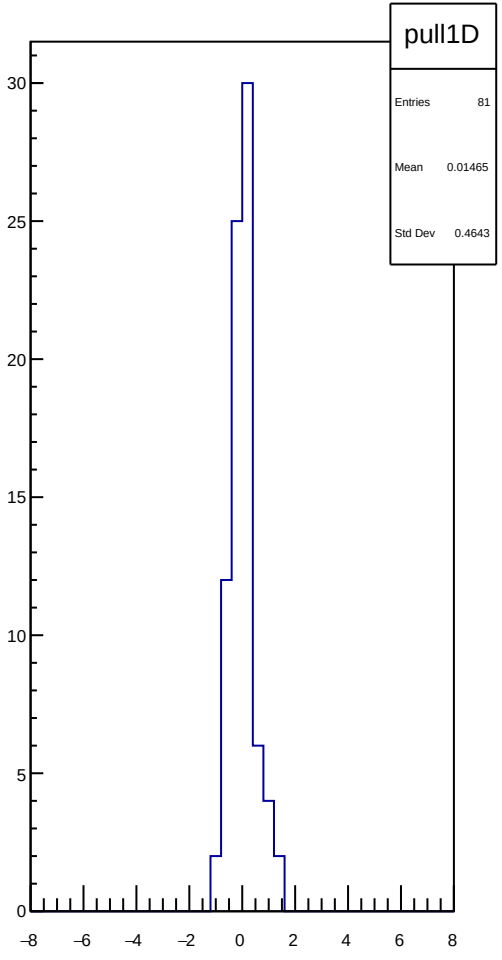

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 4.269 / 80
p0 −2.596 ± 0.3328
pull
Entries 81
Mean −50.34
Std Dev 86.3

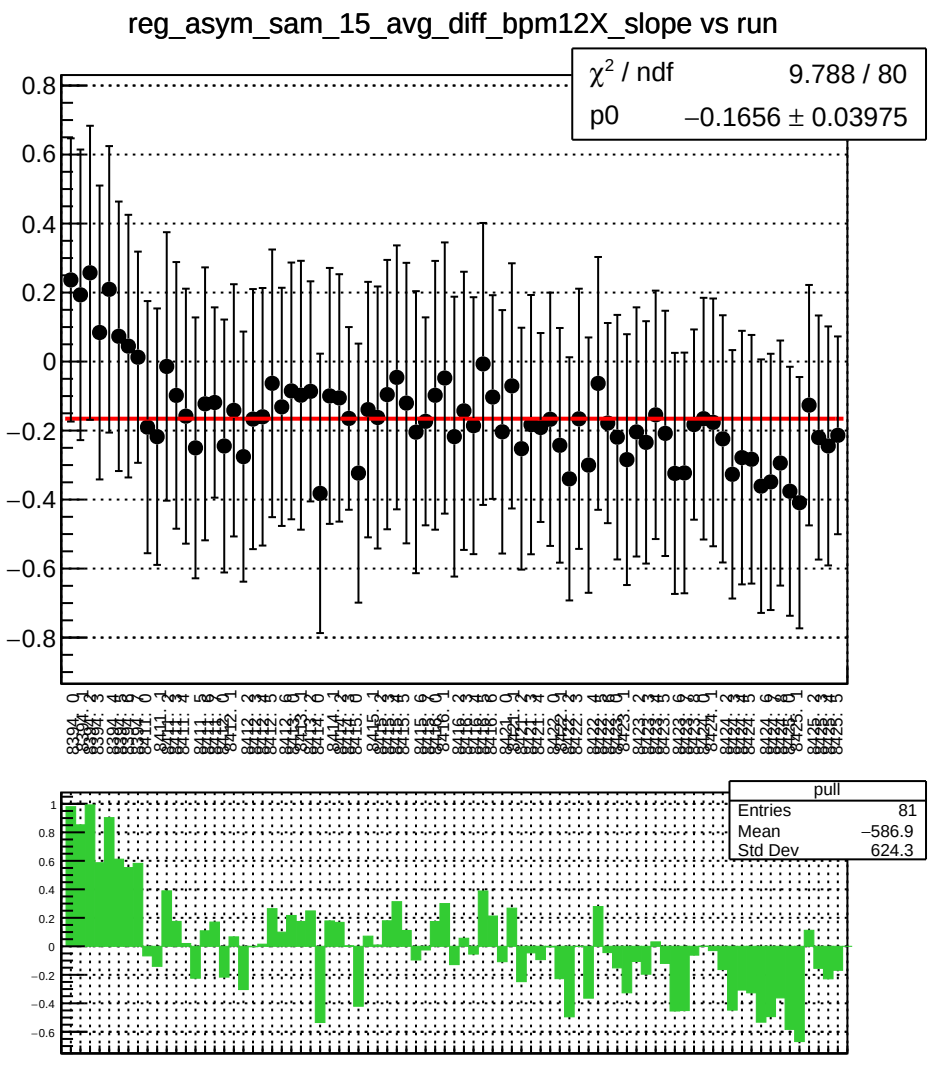

pull1D
Entries 81
Mean −0.01156
Std Dev 0.2293

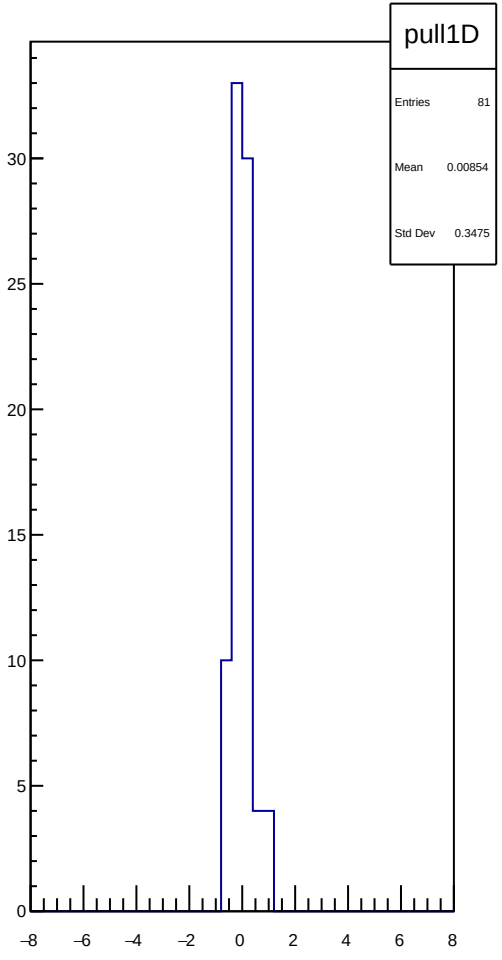

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.8 / 80
p0 31.65 ± 0.627
pull
Entries 81
Mean −480.1
Std Dev 516.2
pull1D
Entries 81
Mean −0.0118
Std Dev 0.4415

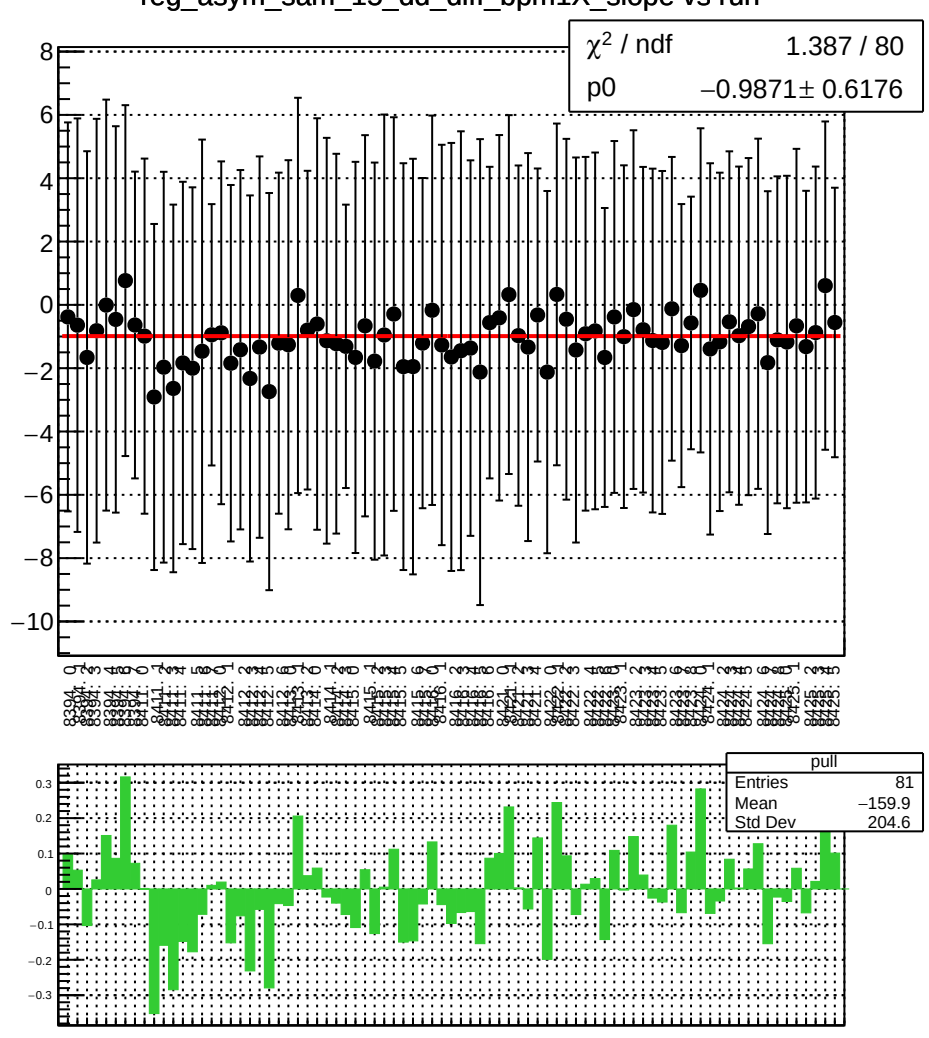

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.462 / 80
p0 1.571 ± 0.3701
pull
Entries 81
Mean −75.71
Std Dev 114.2
pull1D
Entries 81
Mean 0.00921
Std Dev 0.2065

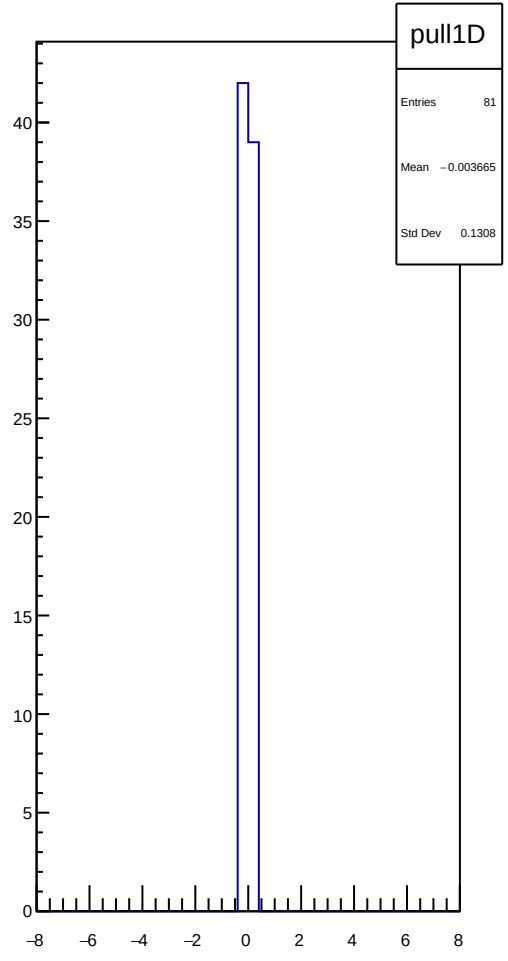

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.48 / 80
p0 24.19 ± 0.6584
pull
Entries 81
Mean −511.6
Std Dev 550.7

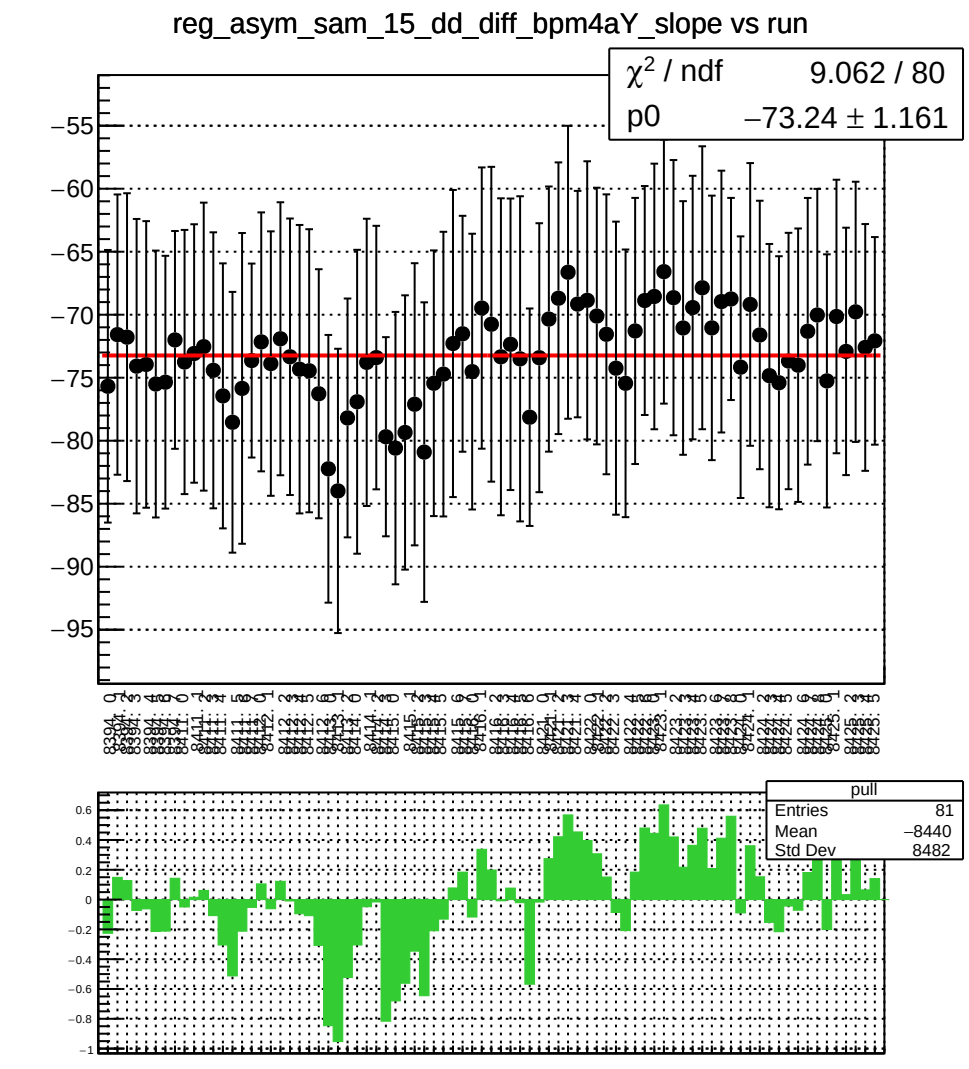

pull1D
Entries 81
Mean 0.01465
Std Dev 0.4643

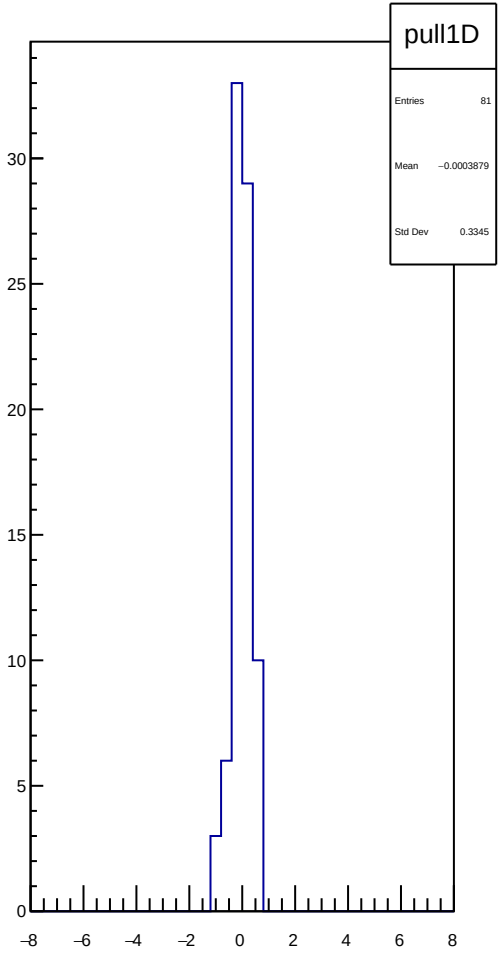

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 9.788 / 80
p0 −0.1656 ± 0.03975
pull
Entries 81
Mean −586.9
Std Dev 624.3

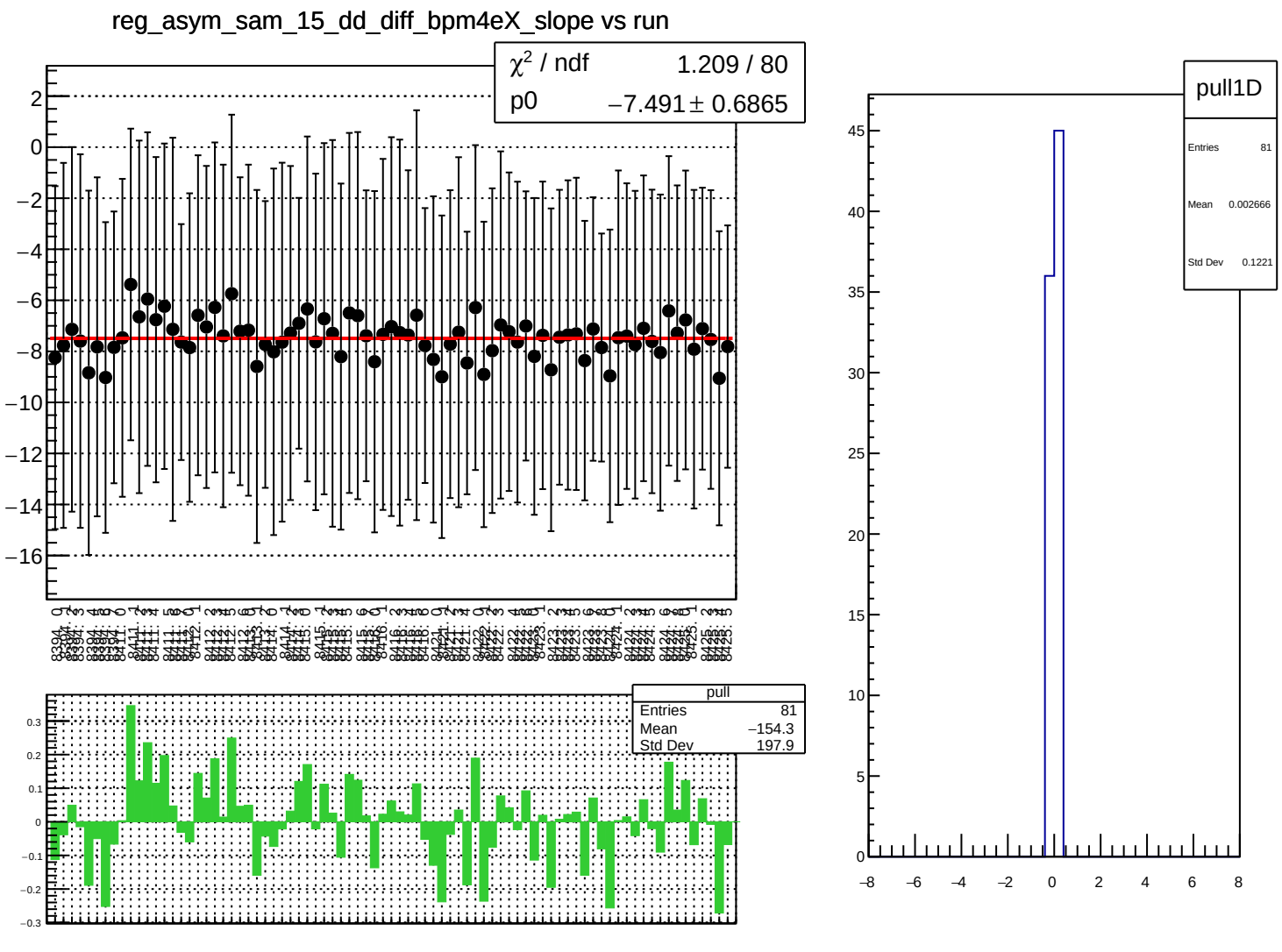

pull1D
Entries 81
Mean 0.00854
Std Dev 0.3475

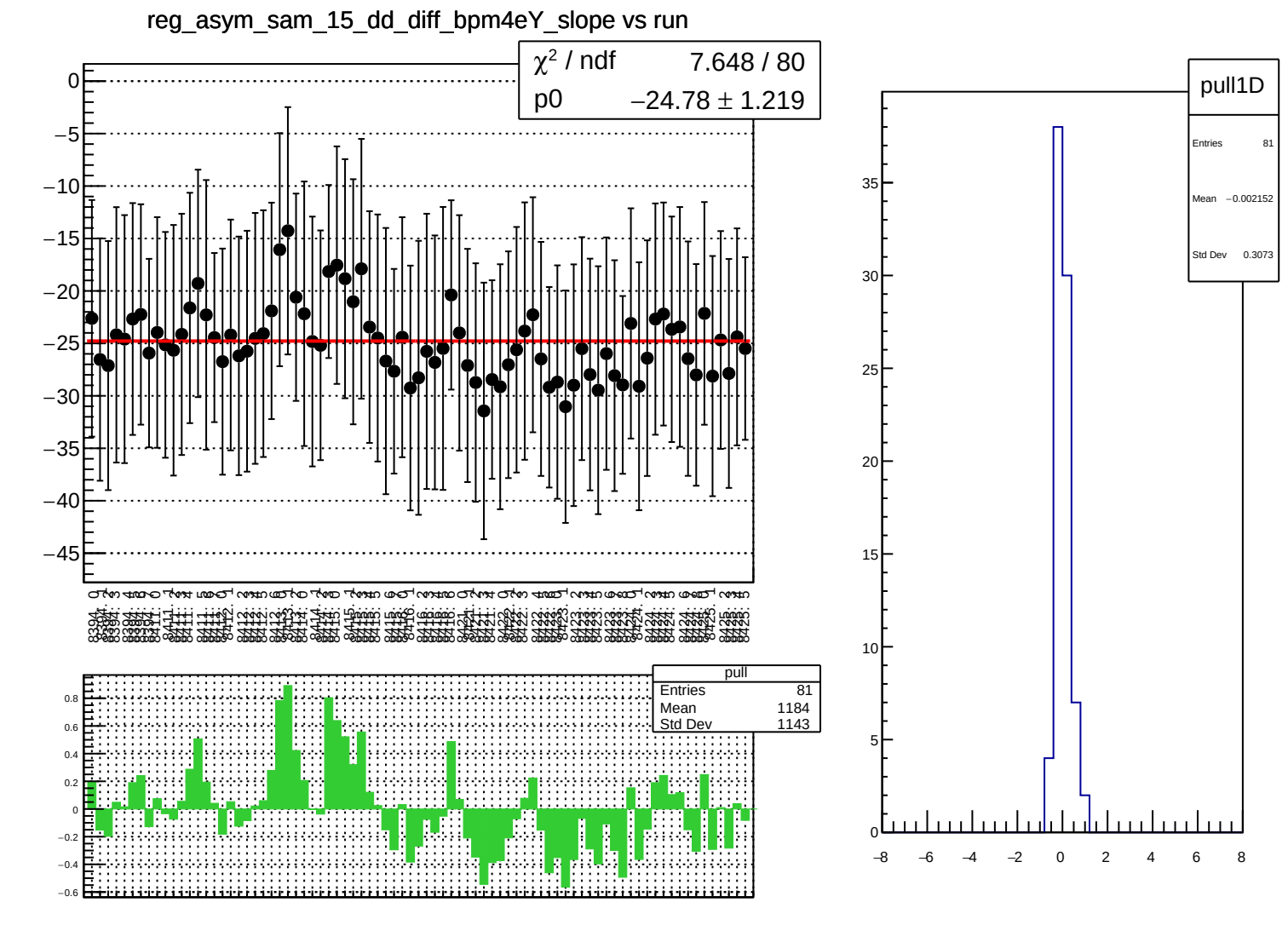

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 1.387 / 80
p0 −0.9871± 0.6176
pull
Entries 81
Mean −159.9
Std Dev 204.6

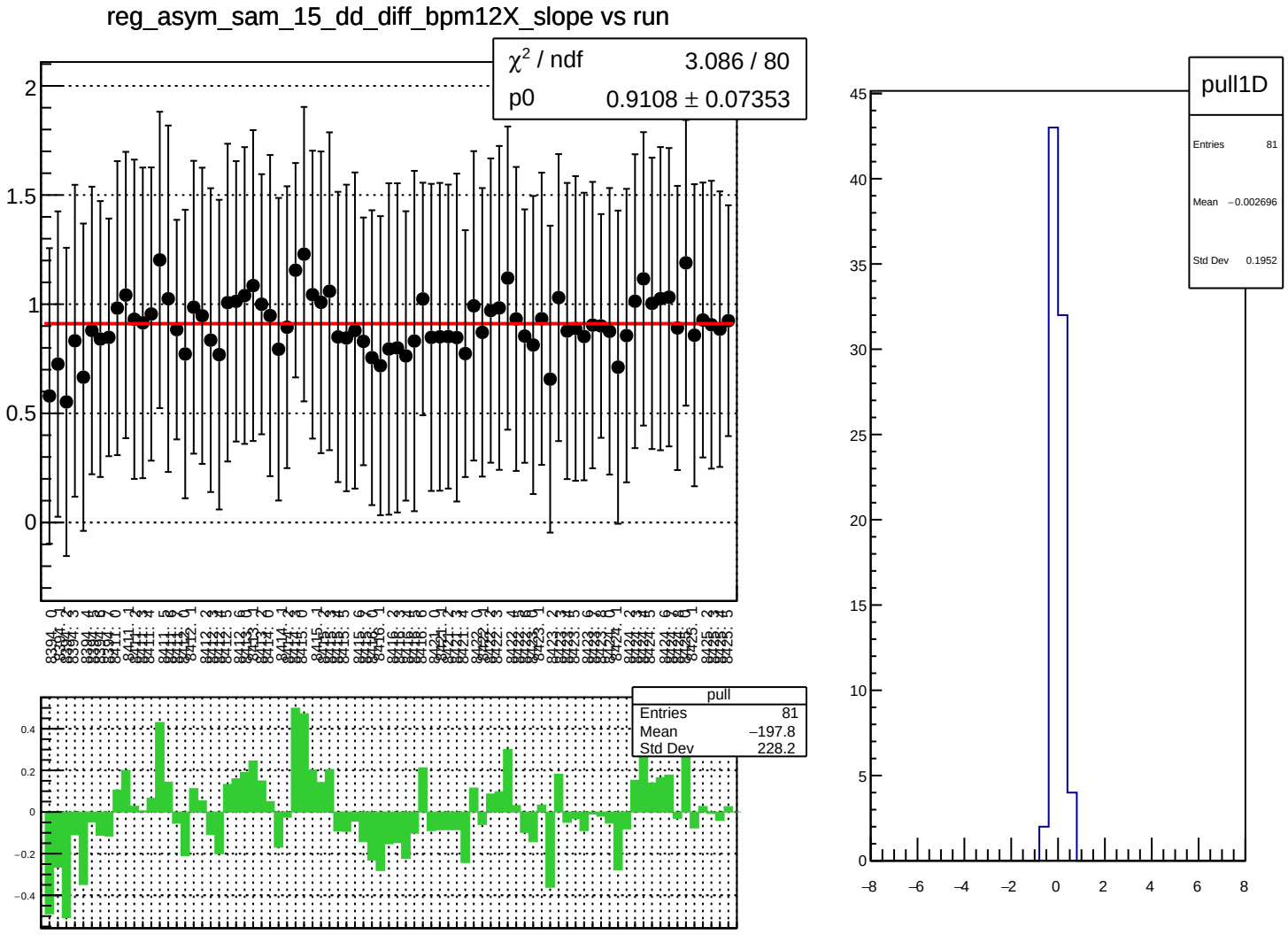

pull1D
Entries 81
Mean −0.003665
Std Dev 0.1308

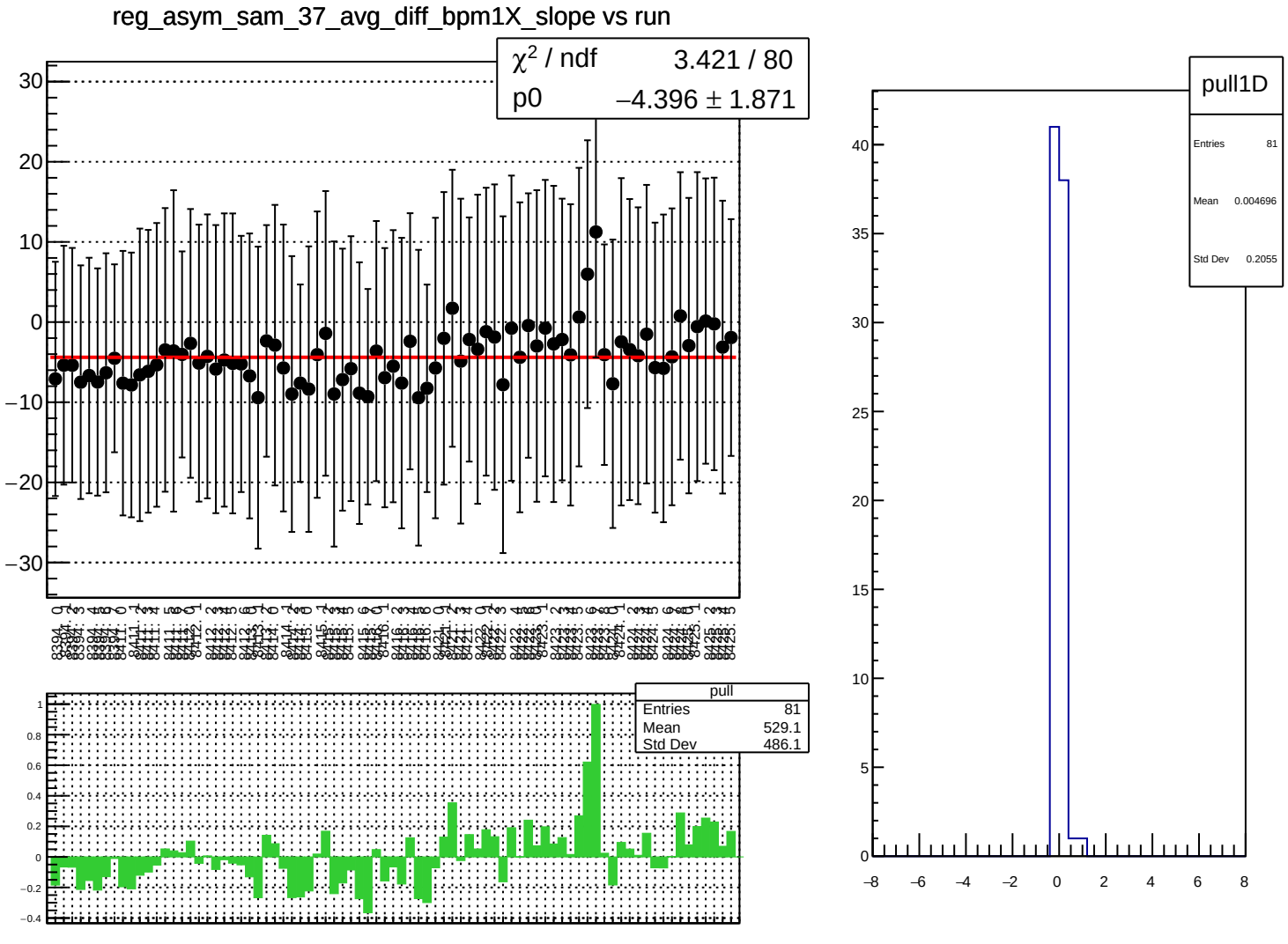

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.062 / 80
p0 −73.24 ± 1.161
pull
Entries 81
Mean −8440
Std Dev 8482

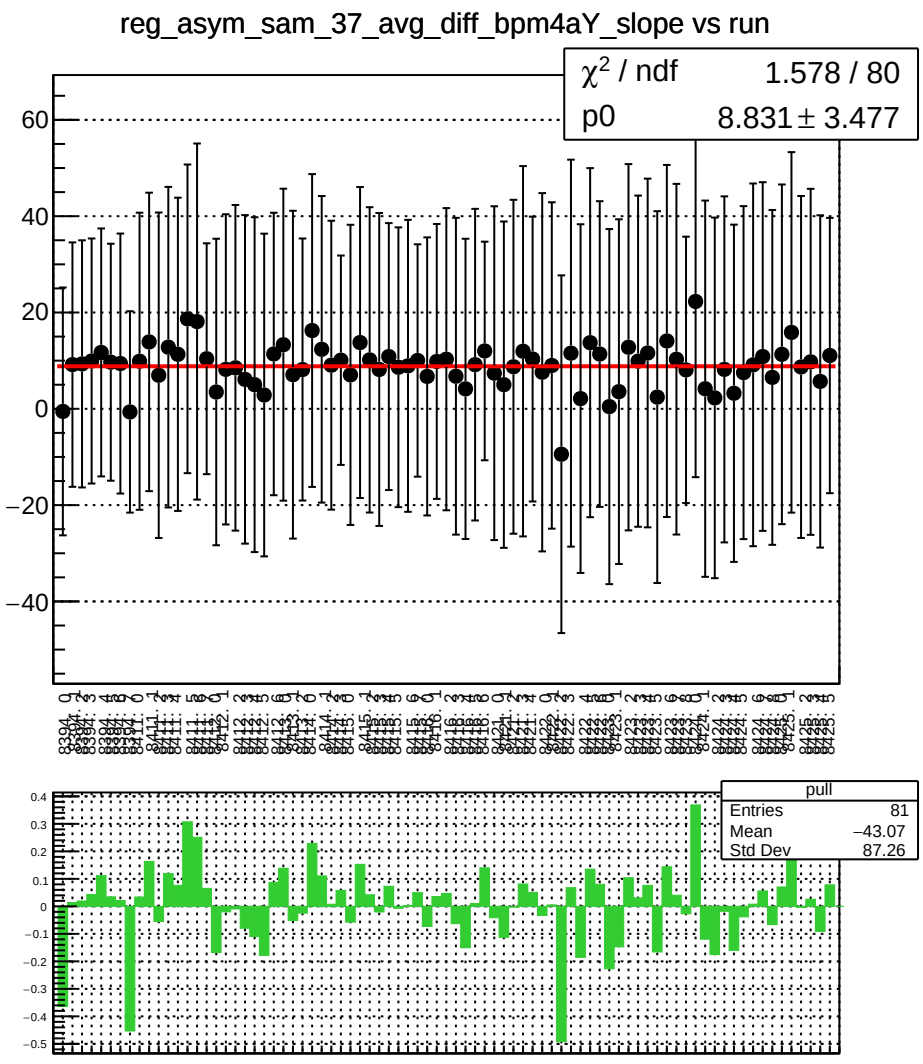

pull1D
Entries 81
Mean −0.0003879
Std Dev 0.3345

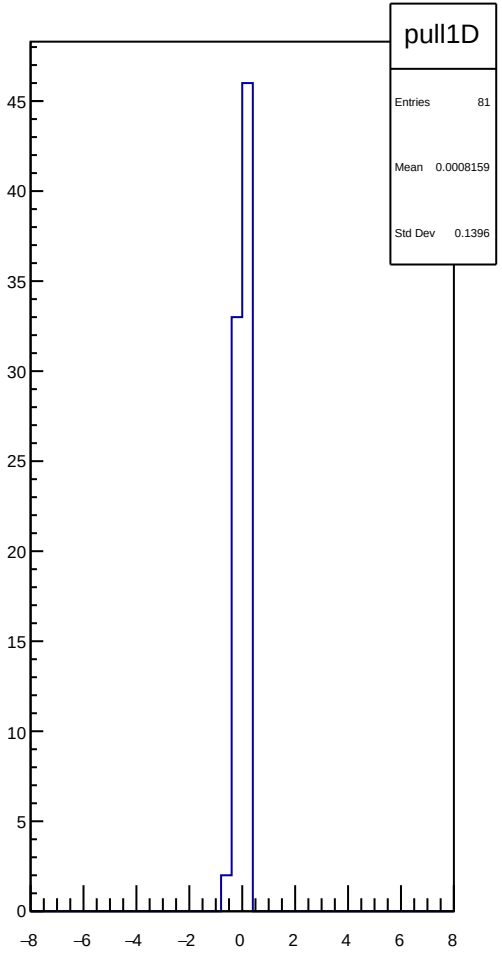

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.209 / 80
p0 −7.491 ± 0.6865
pull
Entries 81
Mean −154.3
Std Dev 197.9
pull1D
Entries 81
Mean 0.002666
Std Dev 0.1221

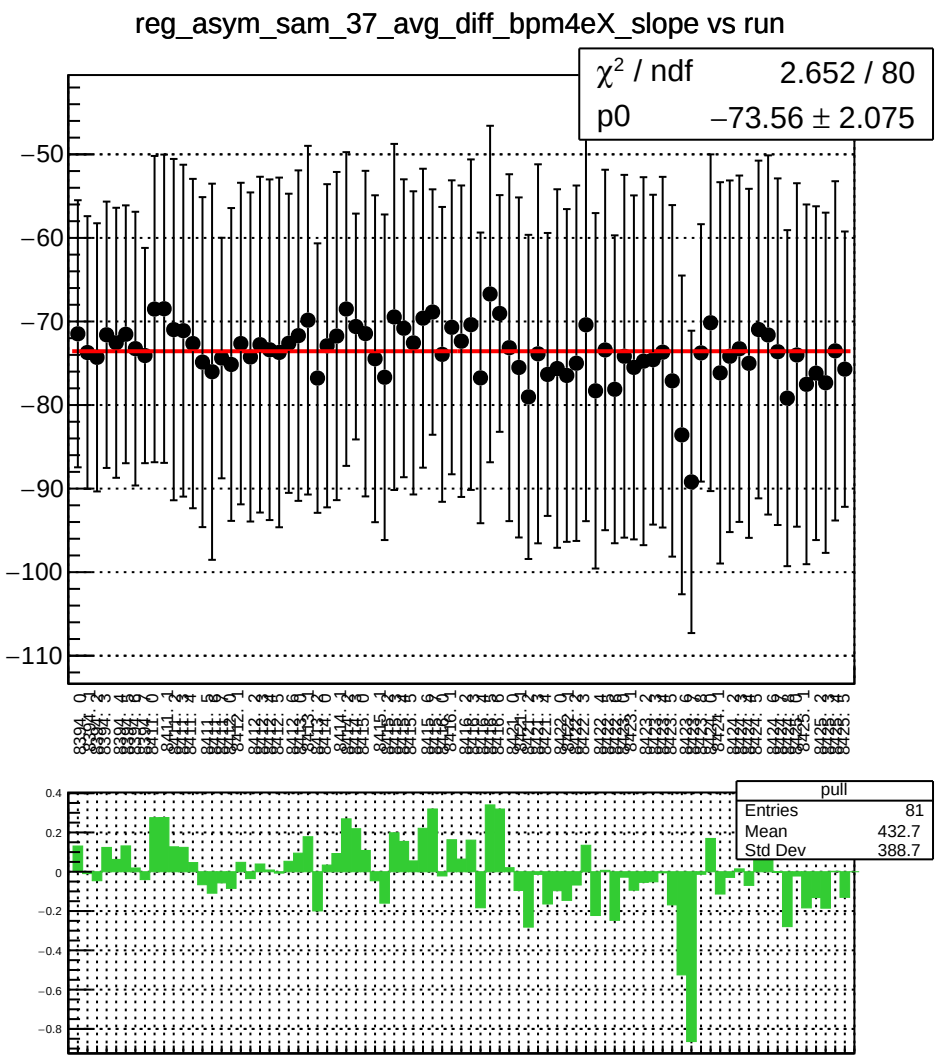

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.648 / 80
p0 −24.78 ± 1.219
pull
Entries 81
Mean 1184
Std Dev 1143
pull1D
Entries 81
Mean −0.002152
Std Dev 0.3073

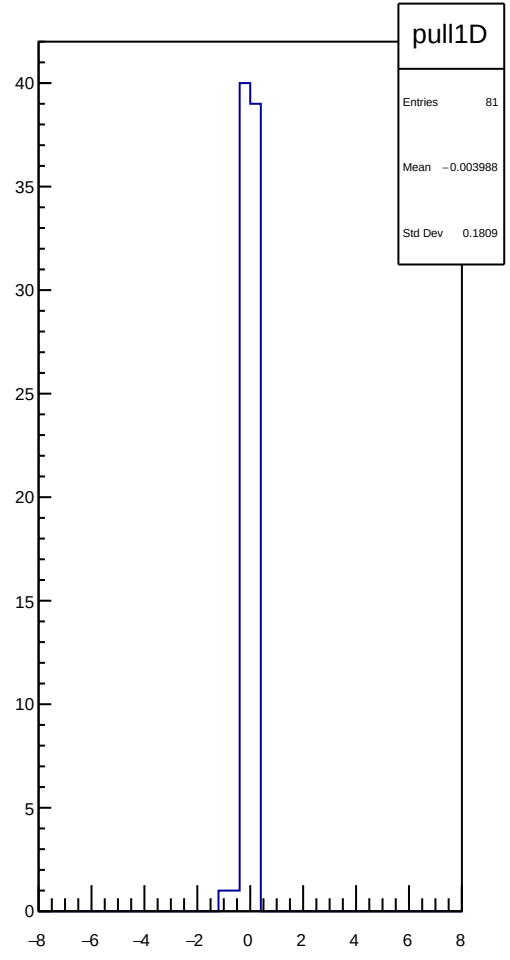

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 3.086 / 80
p0 0.9108 ± 0.07353
pull
Entries 81
Mean −197.8
Std Dev 228.2
pull1D
Entries 81
Mean −0.002696
Std Dev 0.1952

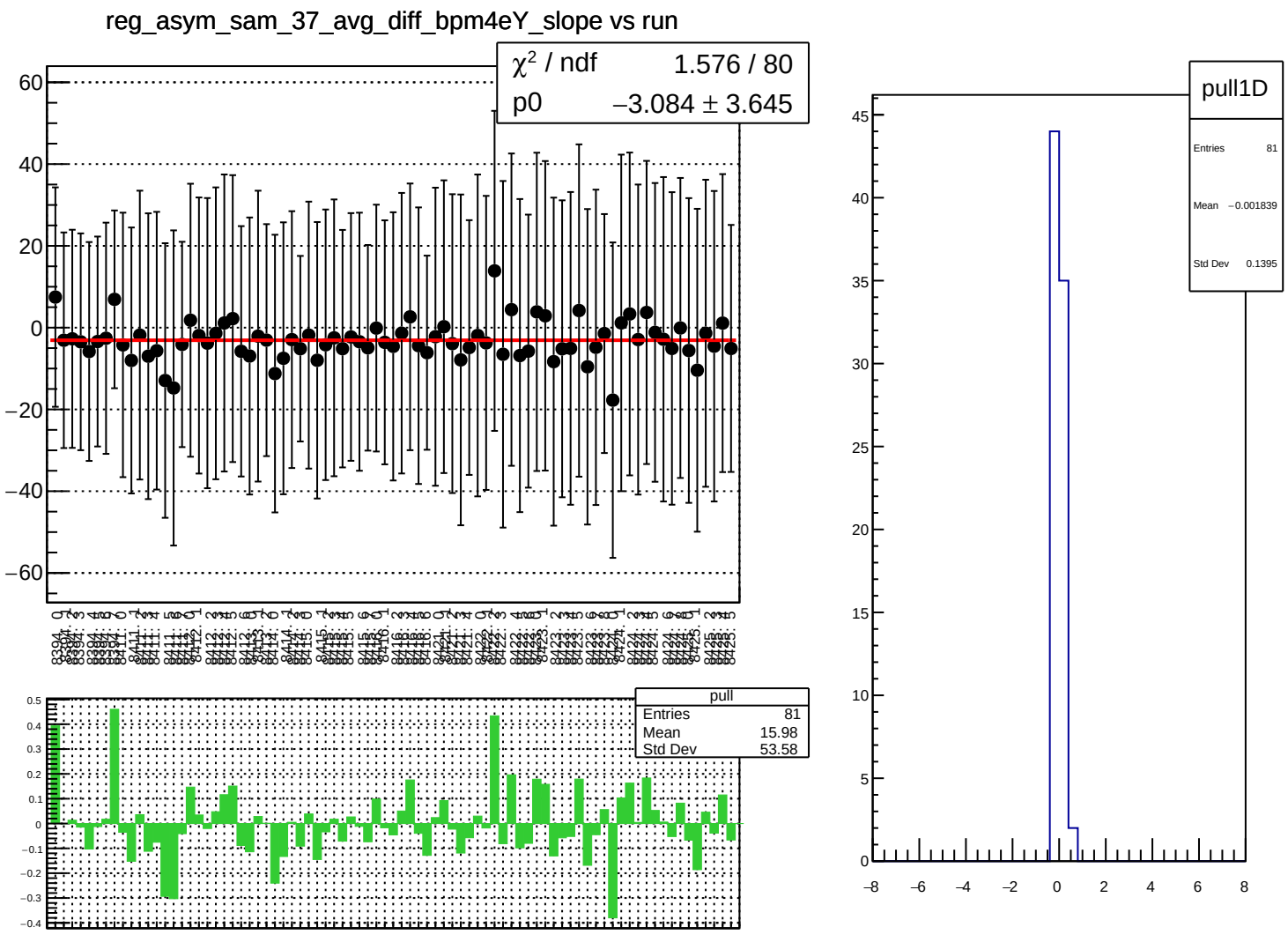

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 3.421 / 80
p0 −4.396 ± 1.871
pull
Entries 81
Mean 529.1
Std Dev 486.1
pull1D
Entries 81
Mean 0.004696
Std Dev 0.2055

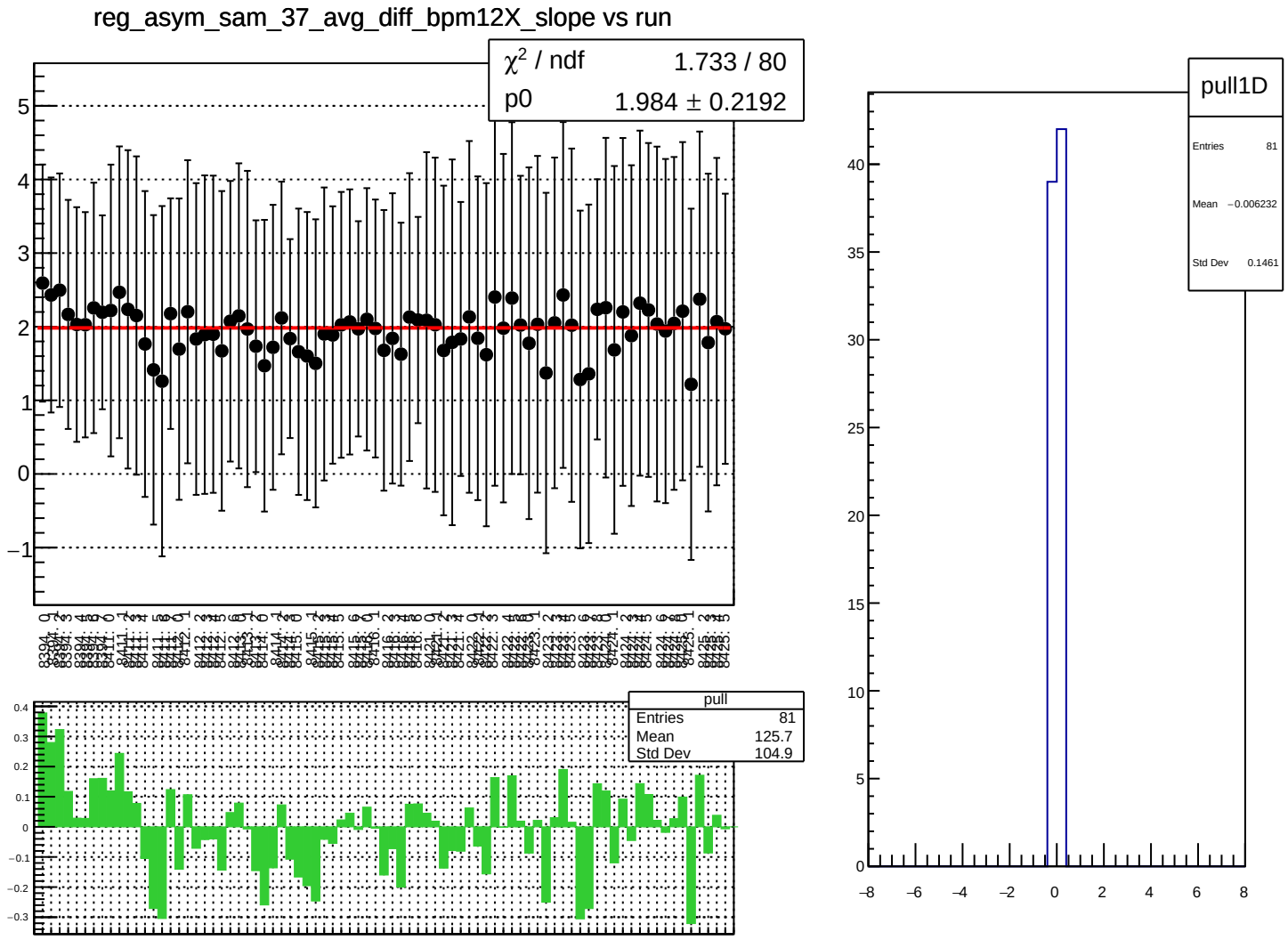

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.578 / 80
p0 8.831 ± 3.477
pull
Entries 81
Mean −43.07
Std Dev 87.26

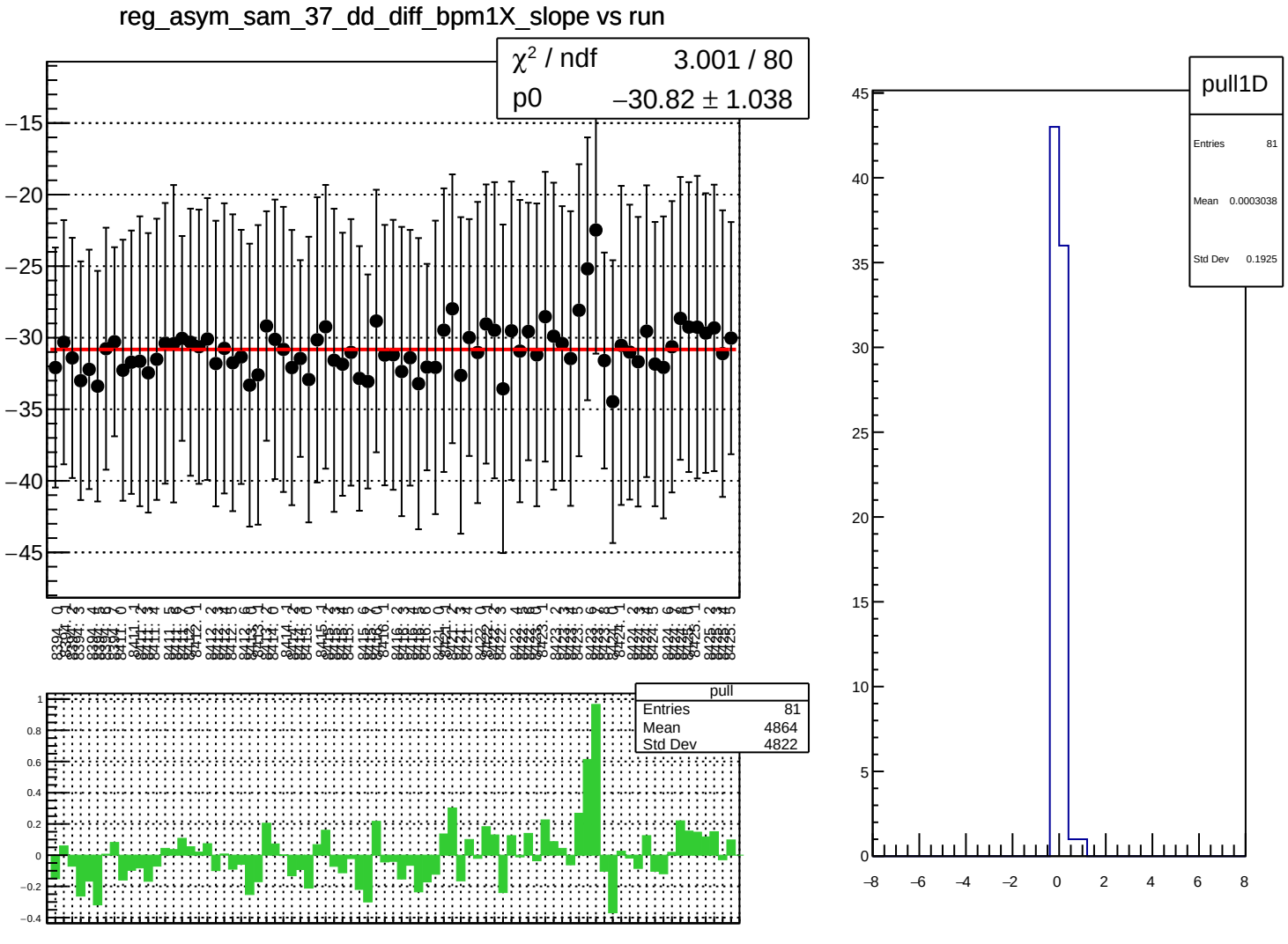

pull1D
Entries 81
Mean 0.0008159
Std Dev 0.1396

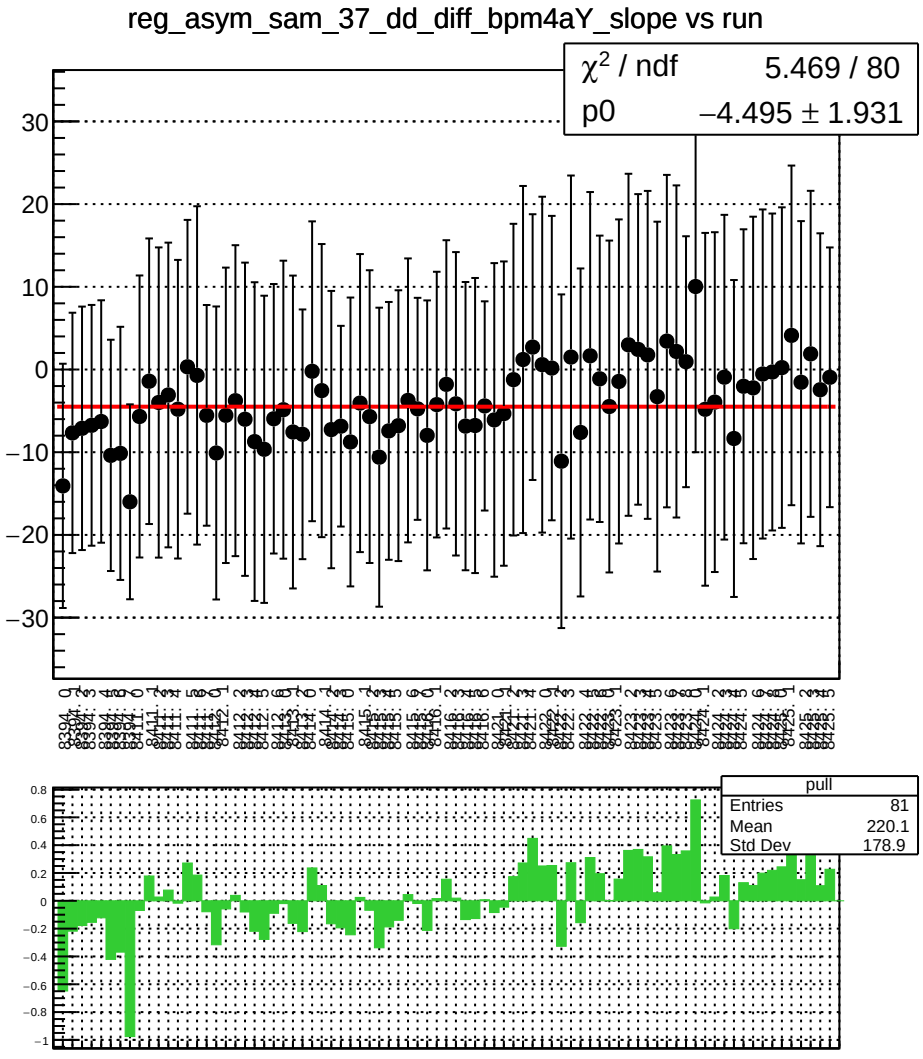

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.652 / 80
p0 −73.56 ± 2.075
pull
Entries 81
Mean 432.7
Std Dev 388.7

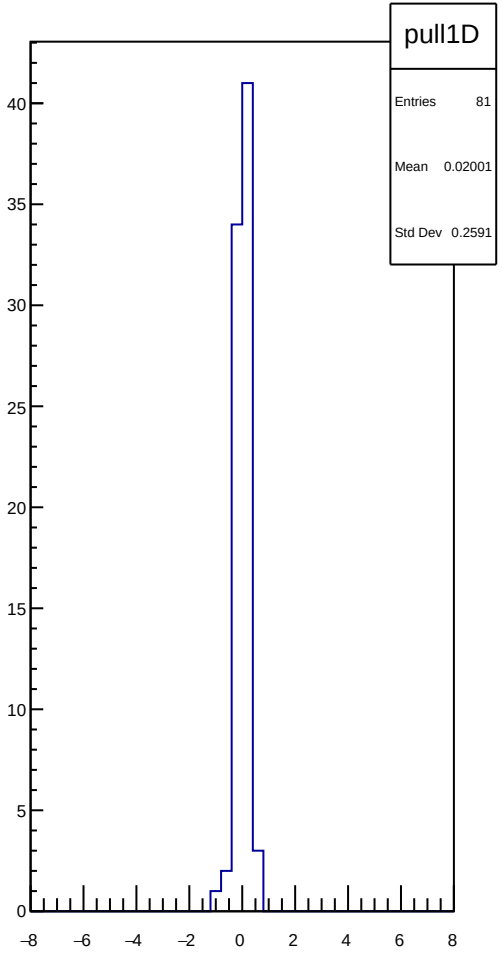

pull1D
Entries 81
Mean −0.003988
Std Dev 0.1809

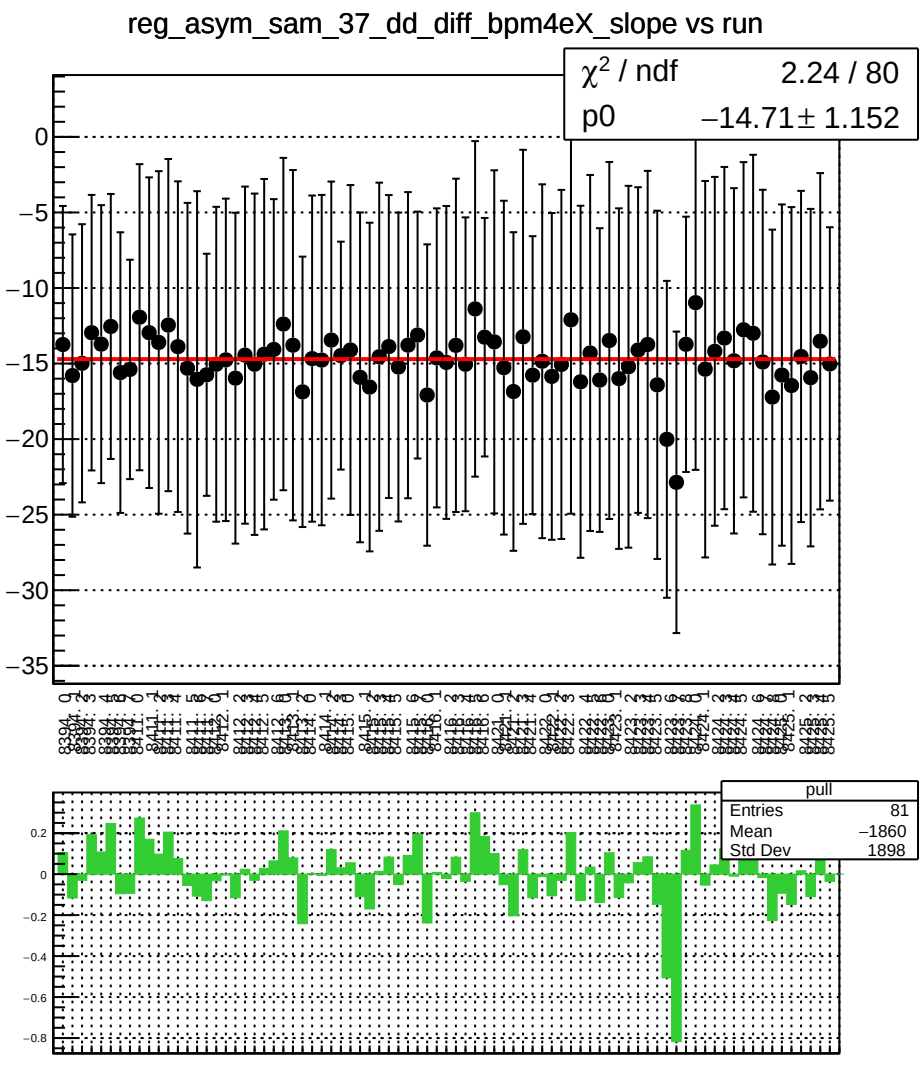

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.576 / 80
p0 −3.084 ± 3.645
pull
Entries 81
Mean 15.98
Std Dev 53.58
pull1D
Entries 81
Mean −0.001839
Std Dev 0.1395

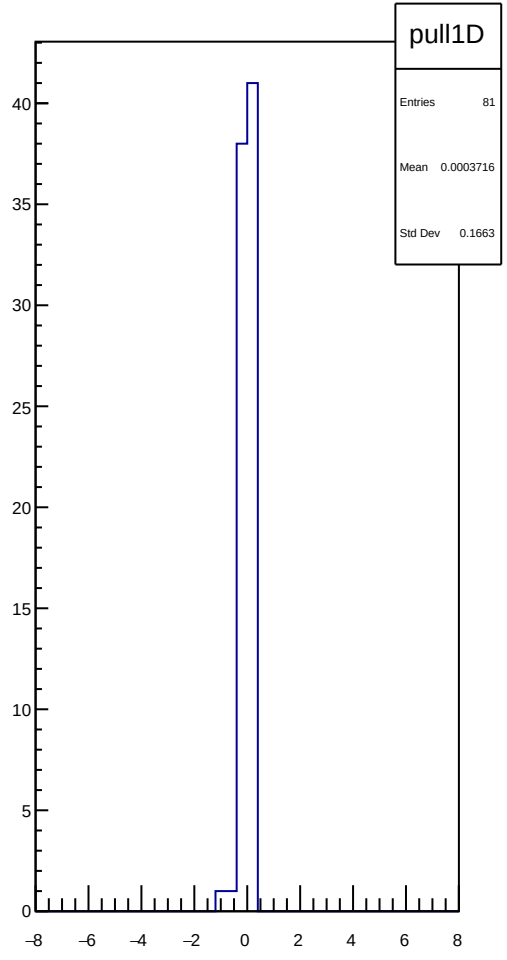

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 1.733 / 80
p0 1.984 ± 0.2192
pull
Entries 81
Mean 125.7
Std Dev 104.9
pull1D
Entries 81
Mean −0.006232
Std Dev 0.1461

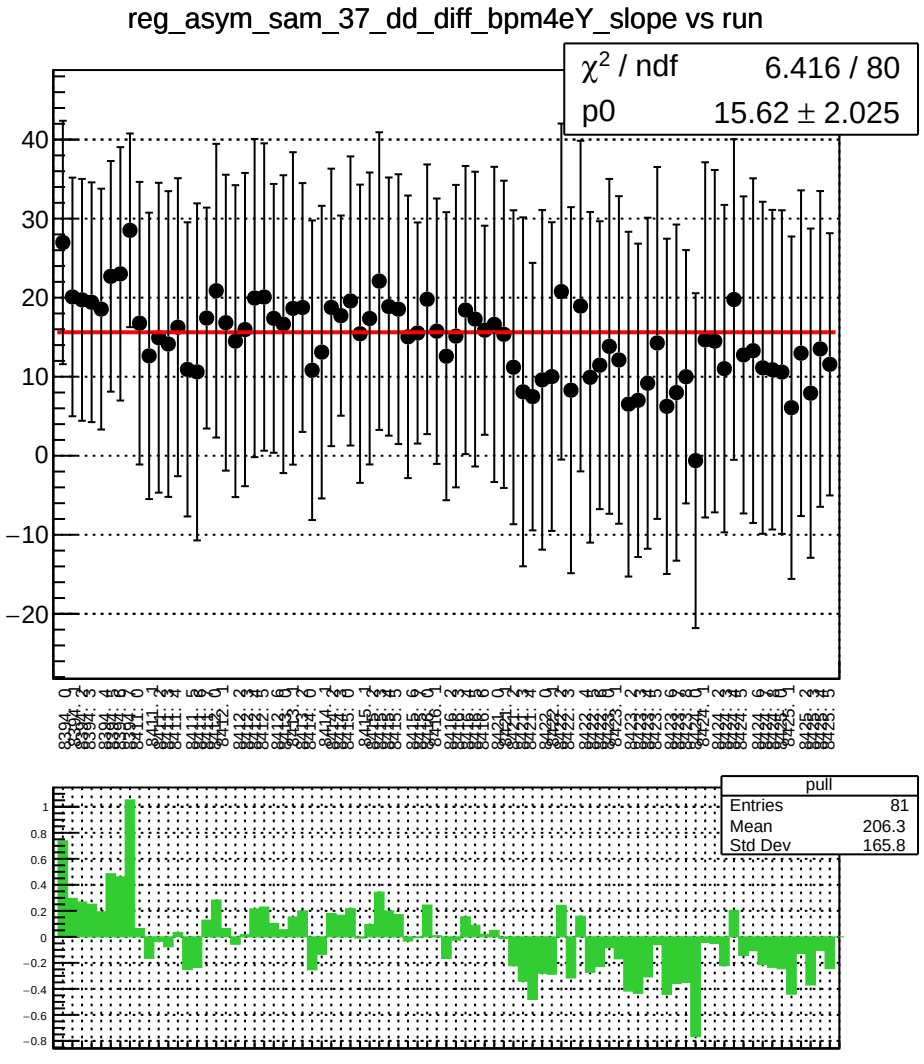

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 3.001 / 80
p0 −30.82 ± 1.038
pull
Entries 81
Mean 4864
Std Dev 4822
pull1D
Entries 81
Mean 0.0003038
Std Dev 0.1925

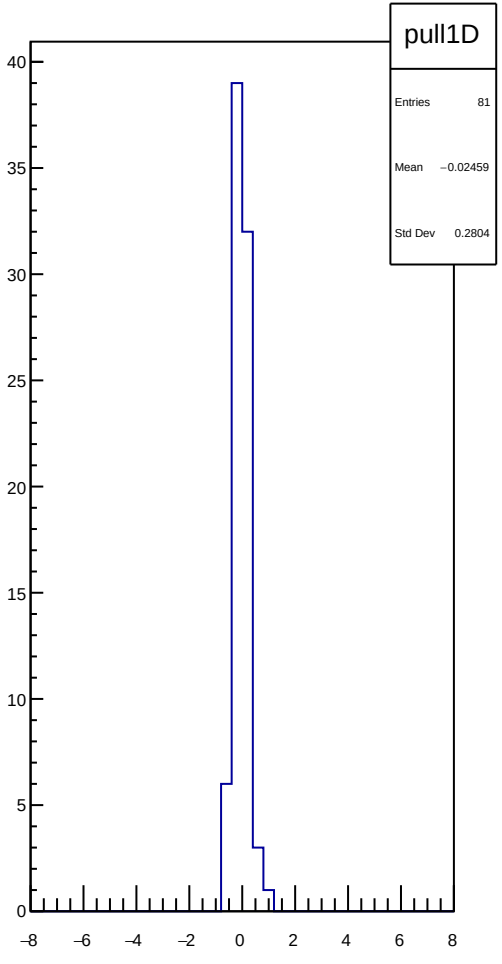

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.469 / 80
p0 −4.495 ± 1.931
pull
Entries 81
Mean 220.1
Std Dev 178.9

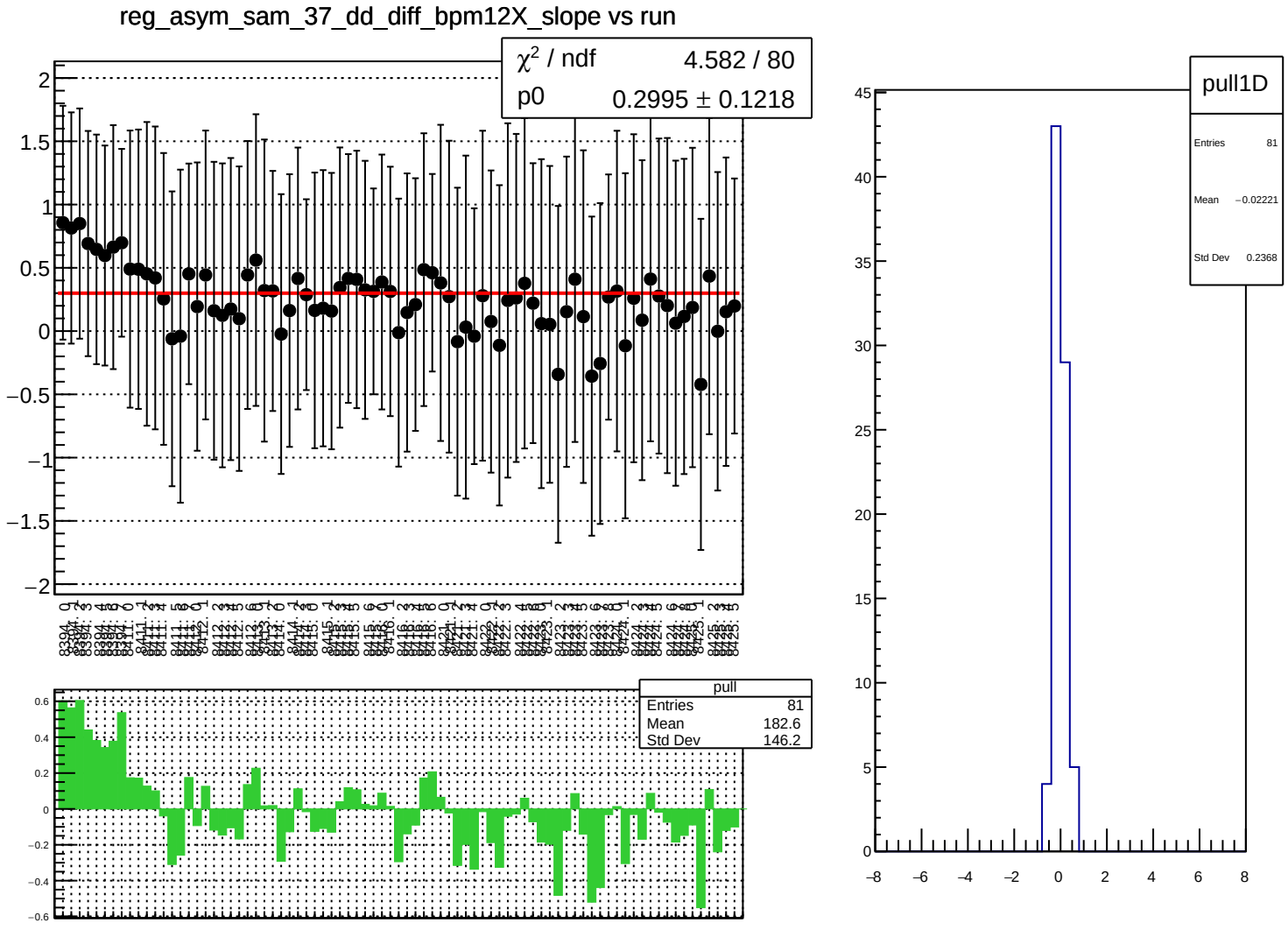

pull1D
Entries 81
Mean 0.02001
Std Dev 0.2591

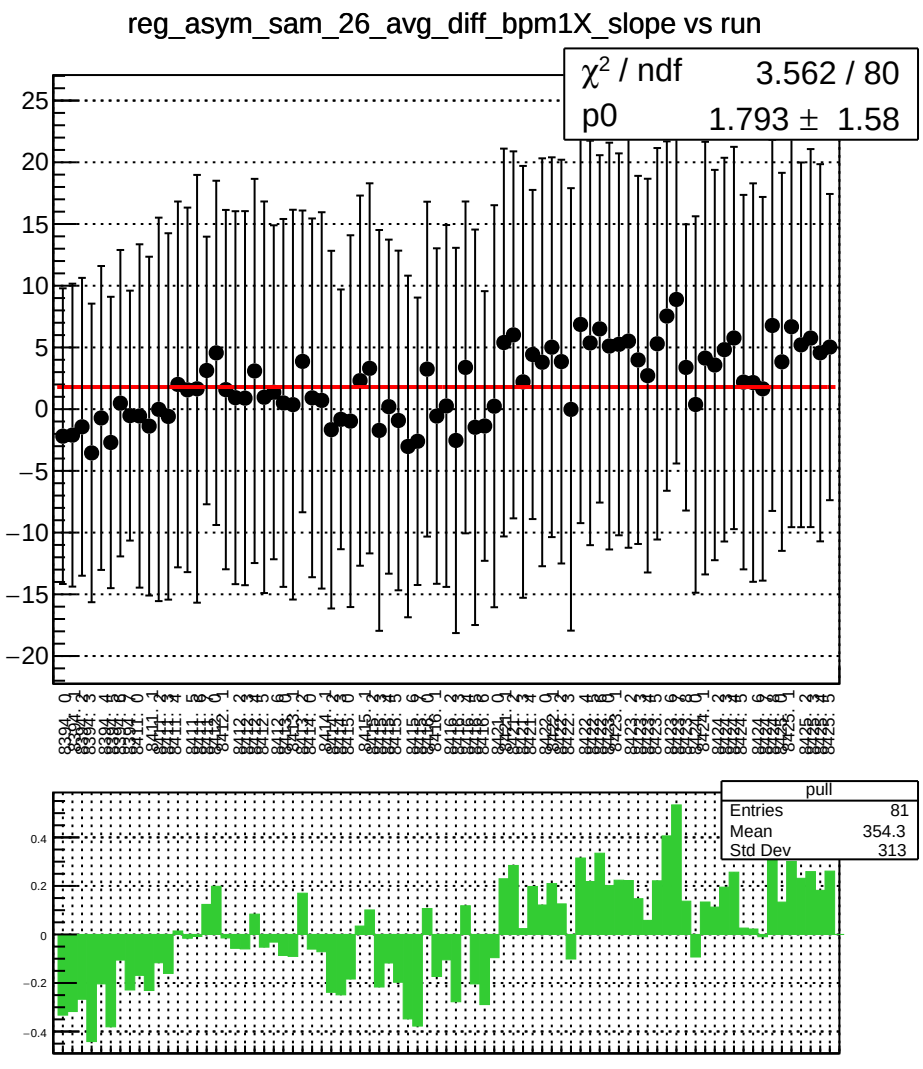

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.24 / 80
p0 −14.71± 1.152
pull
Entries 81
Mean −1860
Std Dev 1898

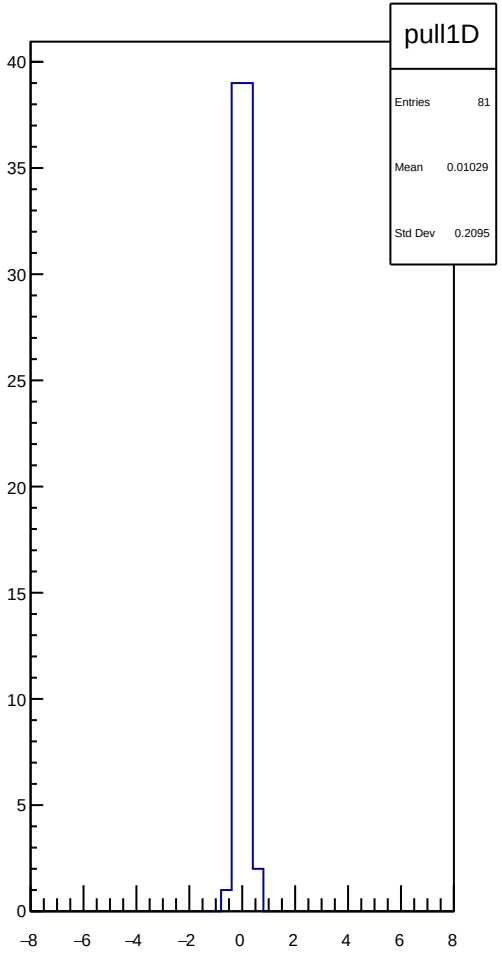

pull1D
Entries 81
Mean 0.0003716
Std Dev 0.1663

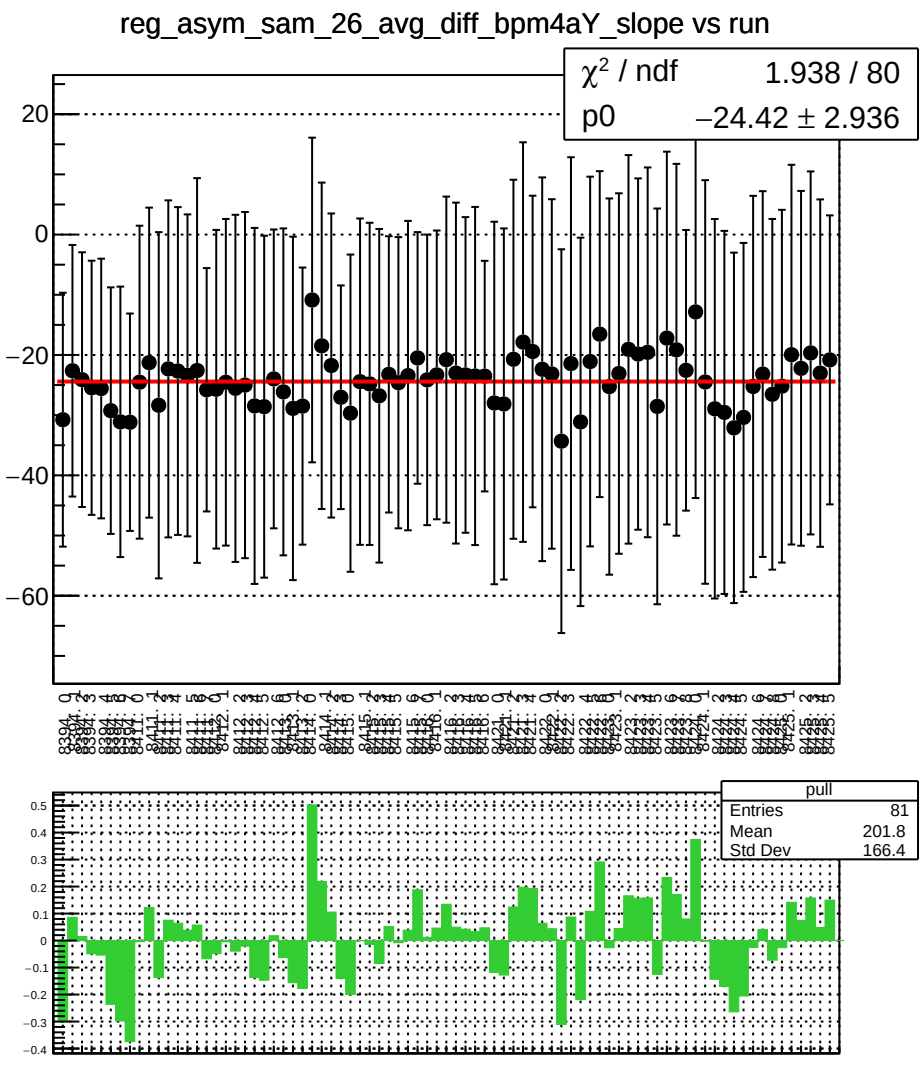

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.416 / 80
p0 15.62 ± 2.025
pull
Entries 81
Mean 206.3
Std Dev 165.8

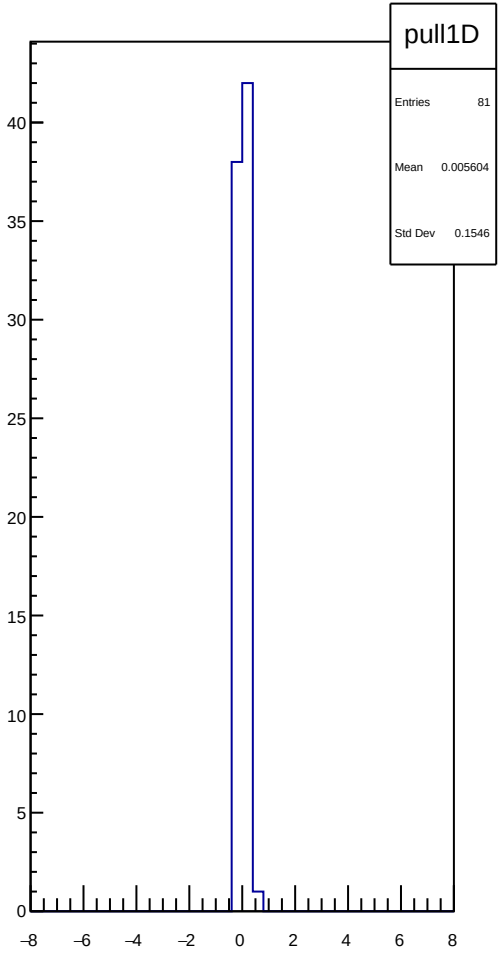

pull1D
Entries 81
Mean −0.02459
Std Dev 0.2804

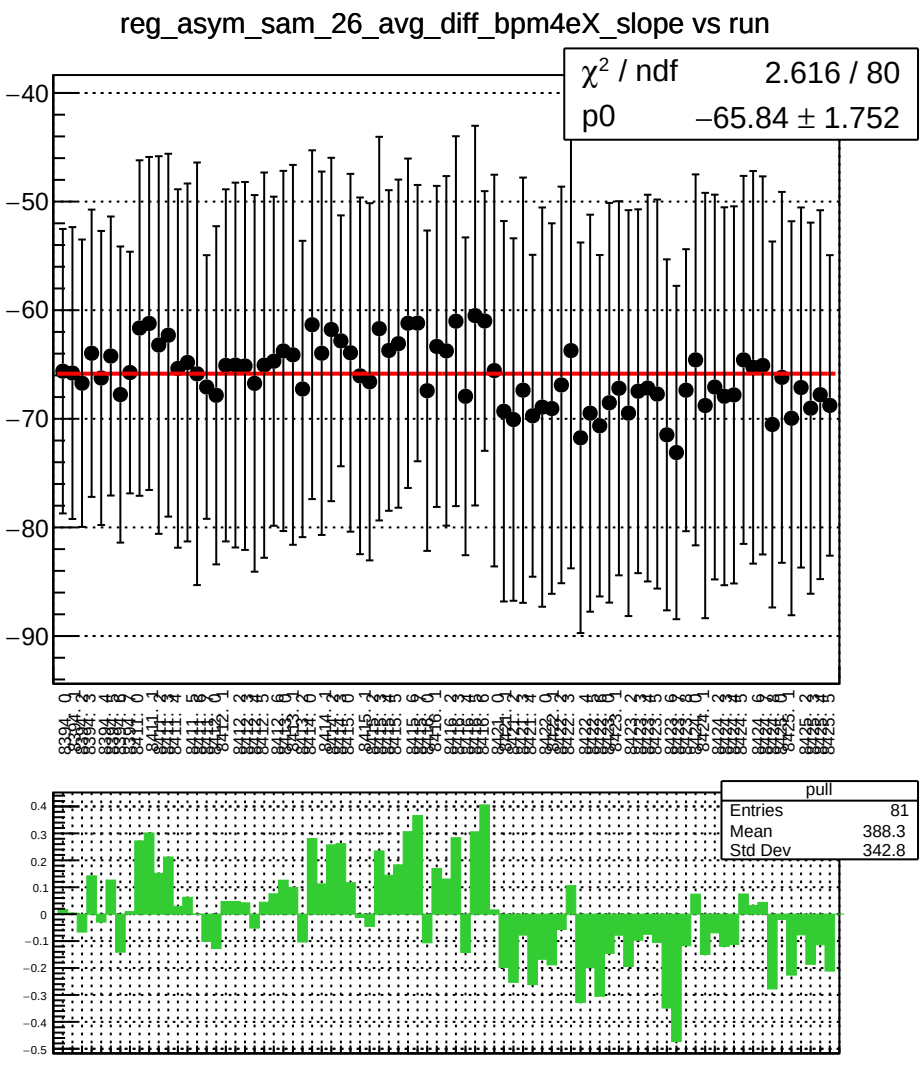

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 4.582 / 80
p0 0.2995 ± 0.1218
pull
Entries 81
Mean 182.6
Std Dev 146.2
pull1D
Entries 81
Mean −0.02221
Std Dev 0.2368

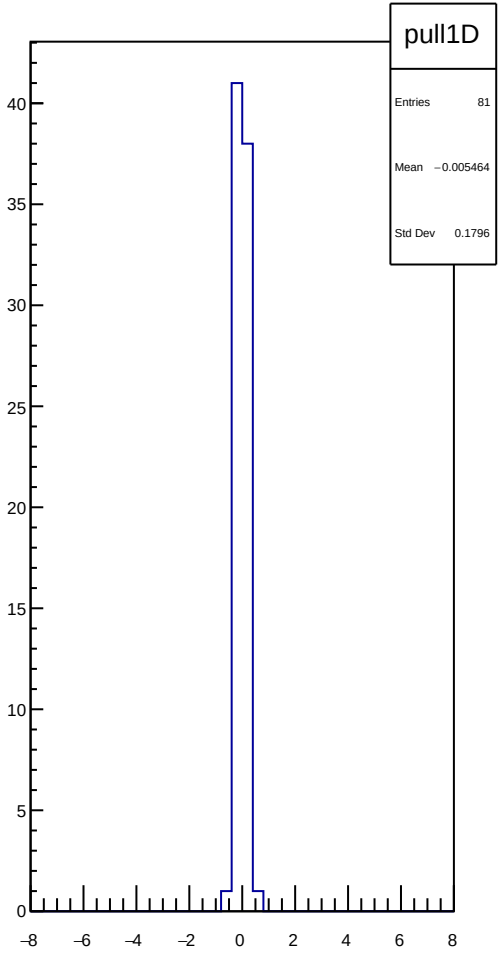

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 3.562 / 80
p0 1.793 ± 1.58
pull
Entries 81
Mean 354.3
Std Dev 313

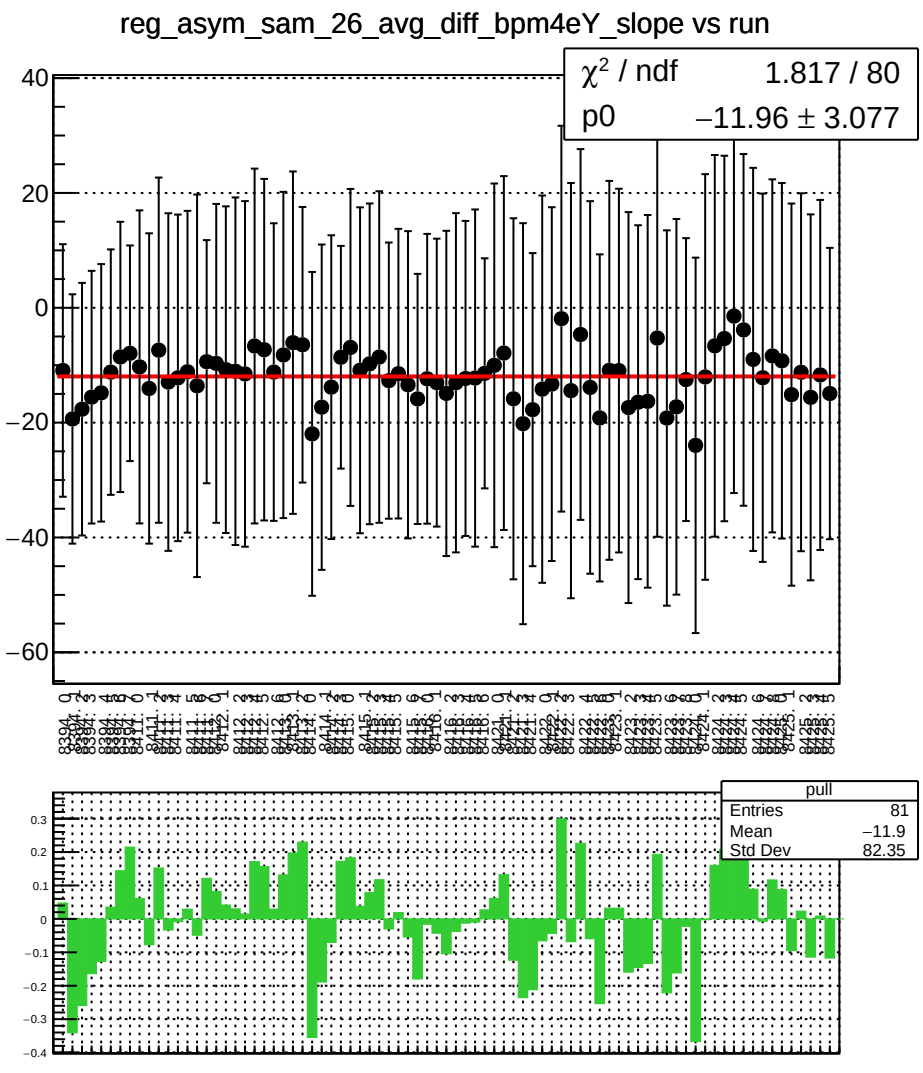

pull1D
Entries 81
Mean 0.01029
Std Dev 0.2095

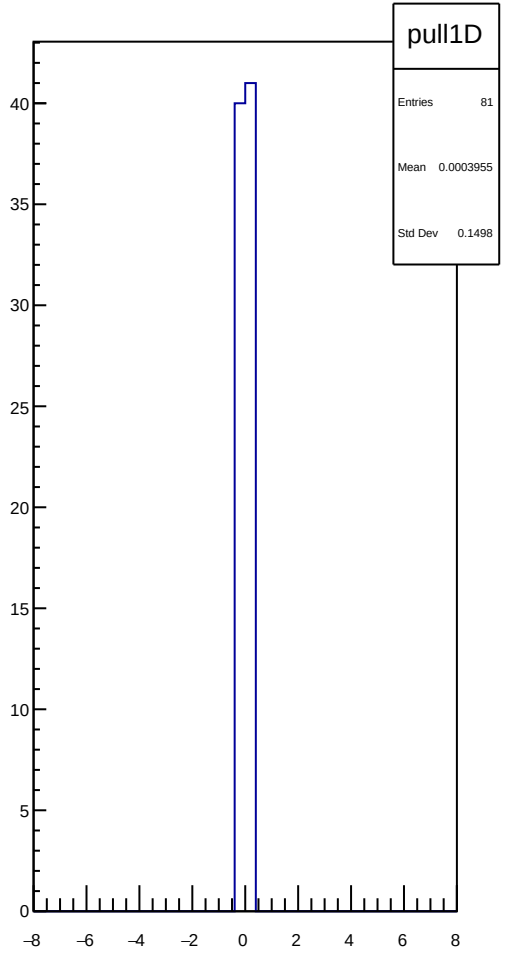

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.938 / 80
p0 −24.42 ± 2.936
pull
Entries 81
Mean 201.8
Std Dev 166.4

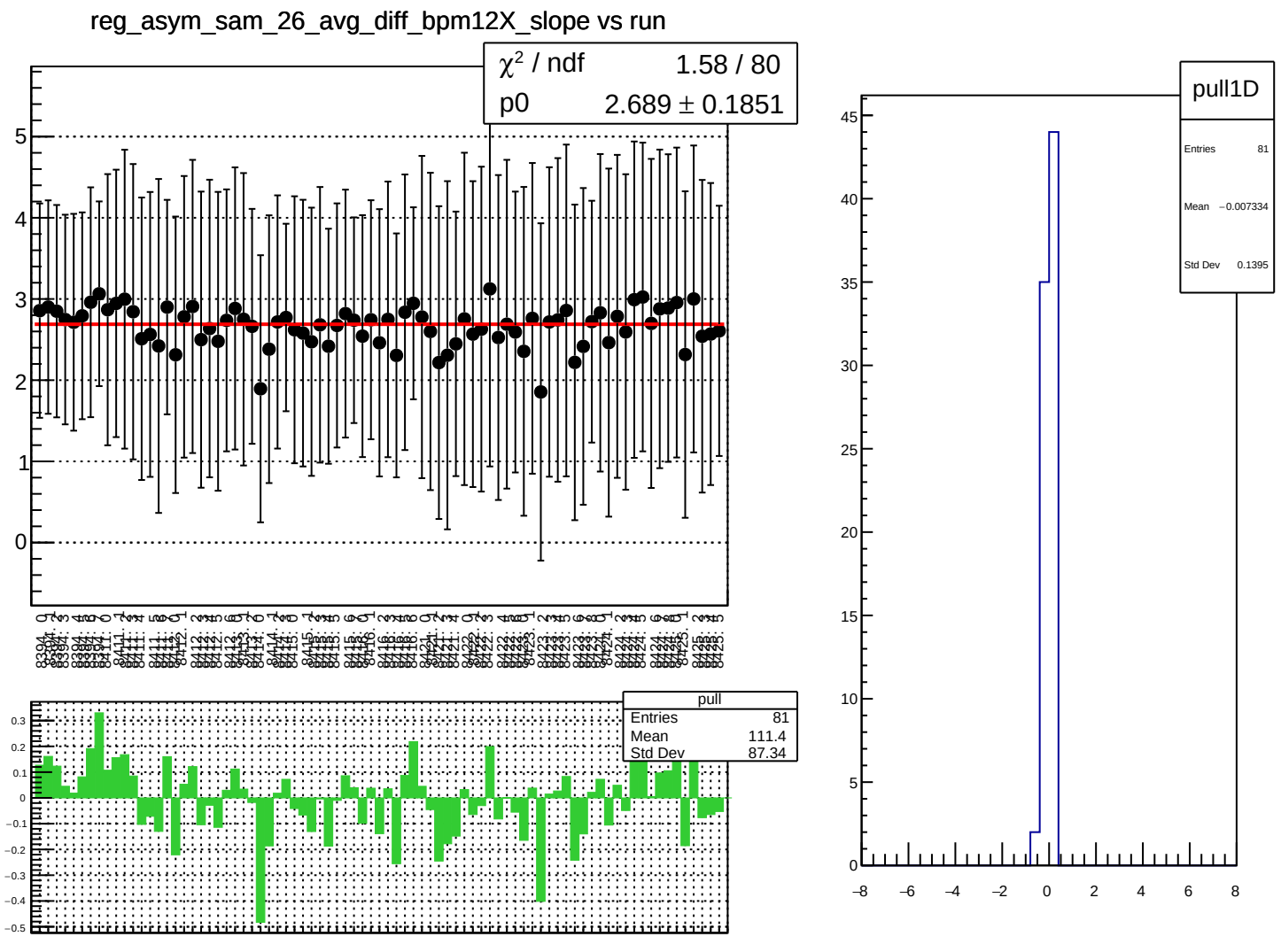

pull1D
Entries 81
Mean 0.005604
Std Dev 0.1546

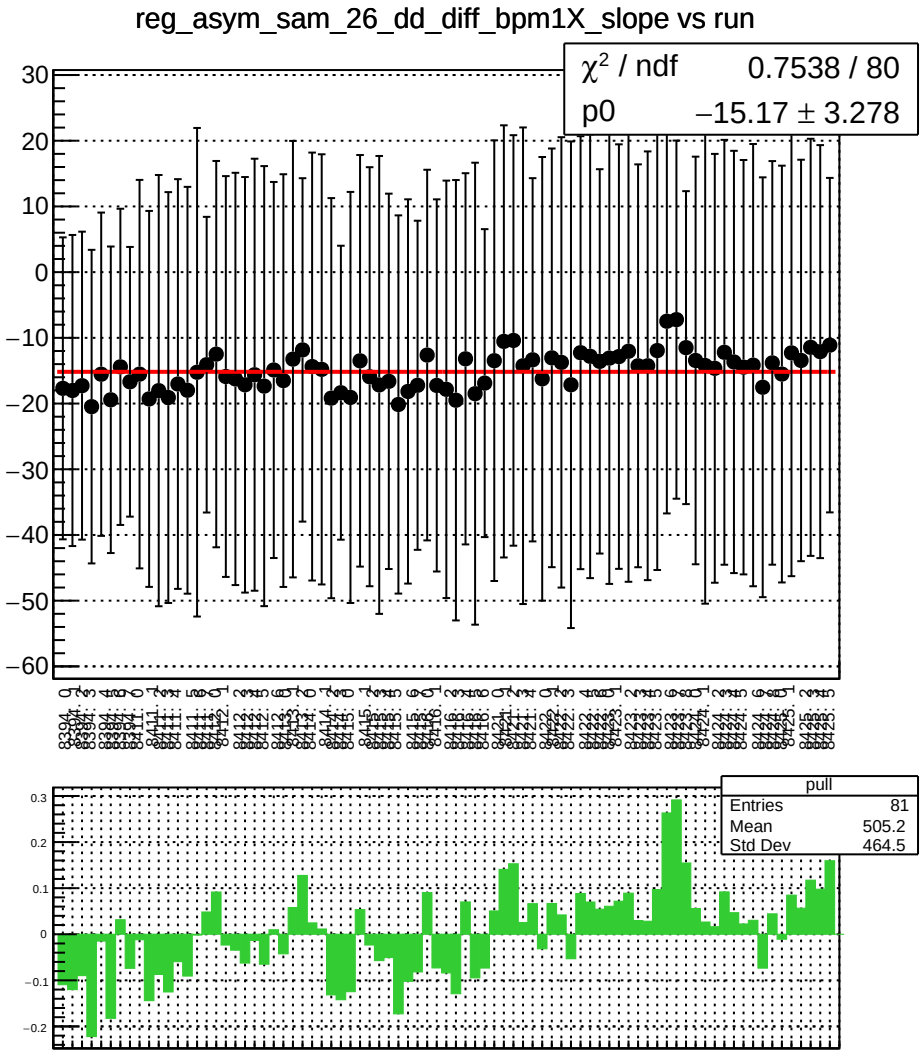

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.616 / 80
p0 −65.84 ± 1.752
pull
Entries 81
Mean 388.3
Std Dev 342.8

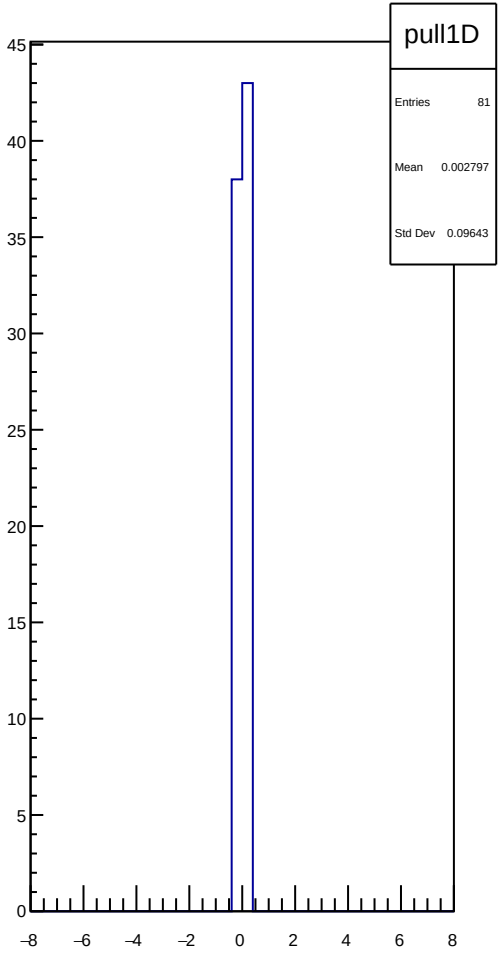

pull1D
Entries 81
Mean −0.005464
Std Dev 0.1796

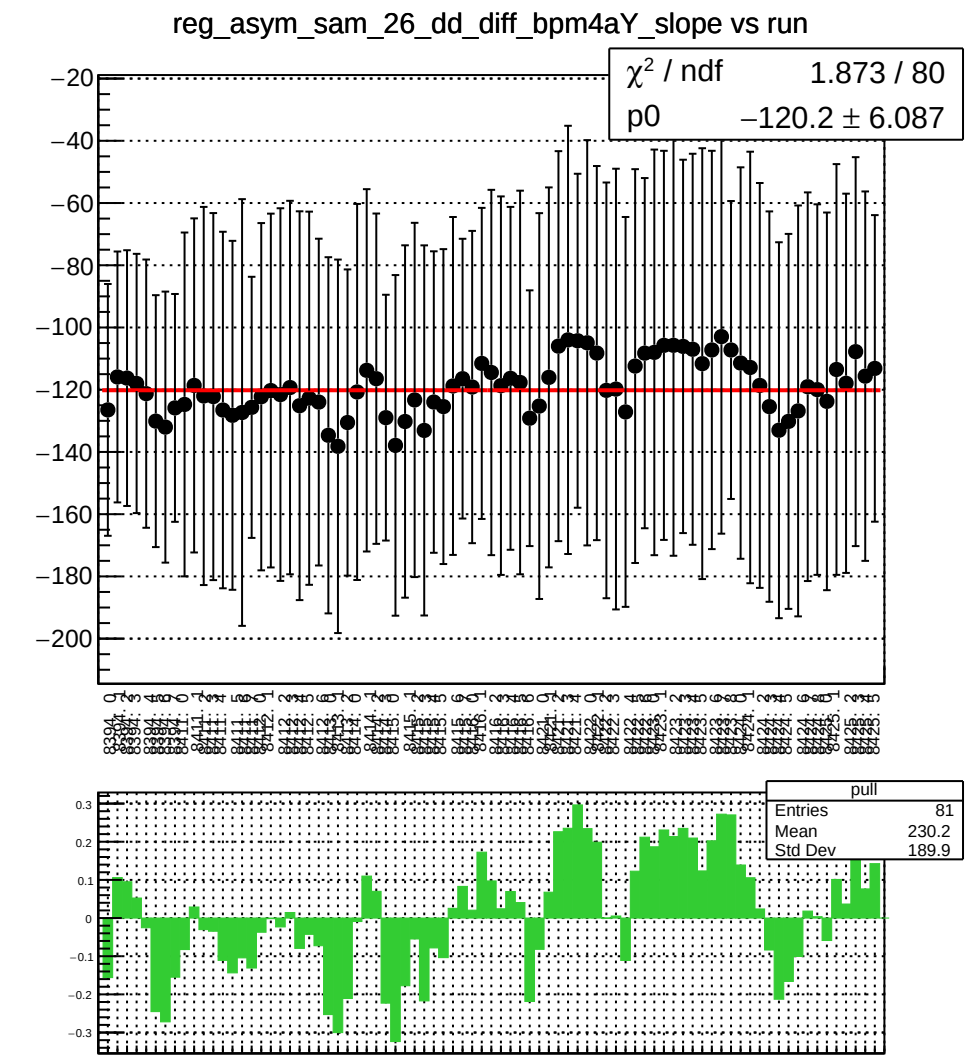

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.817 / 80
p0 −11.96 ± 3.077
pull
Entries 81
Mean −11.9
Std Dev 82.35

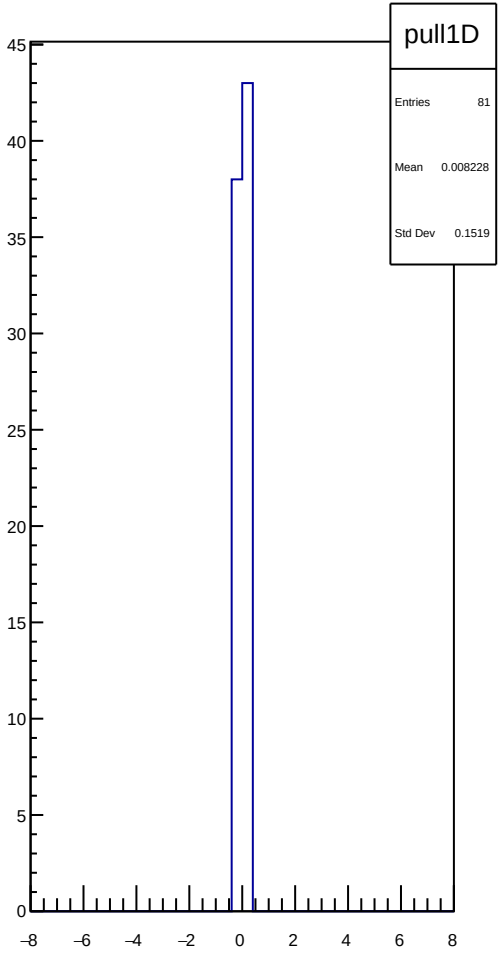

pull1D
Entries 81
Mean 0.0003955
Std Dev 0.1498

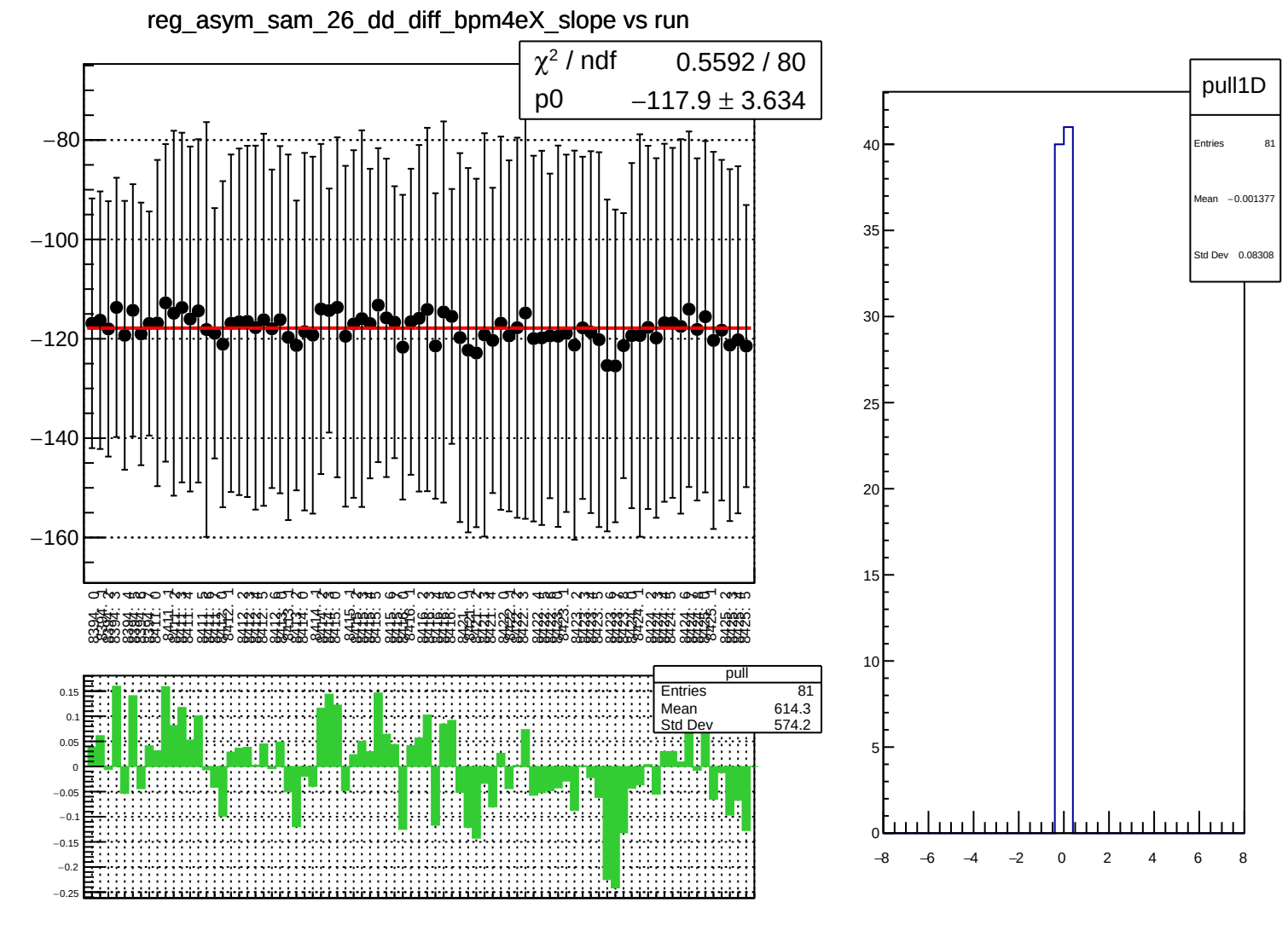

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 1.58 / 80
p0 2.689 ± 0.1851
pull
Entries 81
Mean 111.4
Std Dev 87.34
pull1D
Entries 81
Mean −0.007334
Std Dev 0.1395

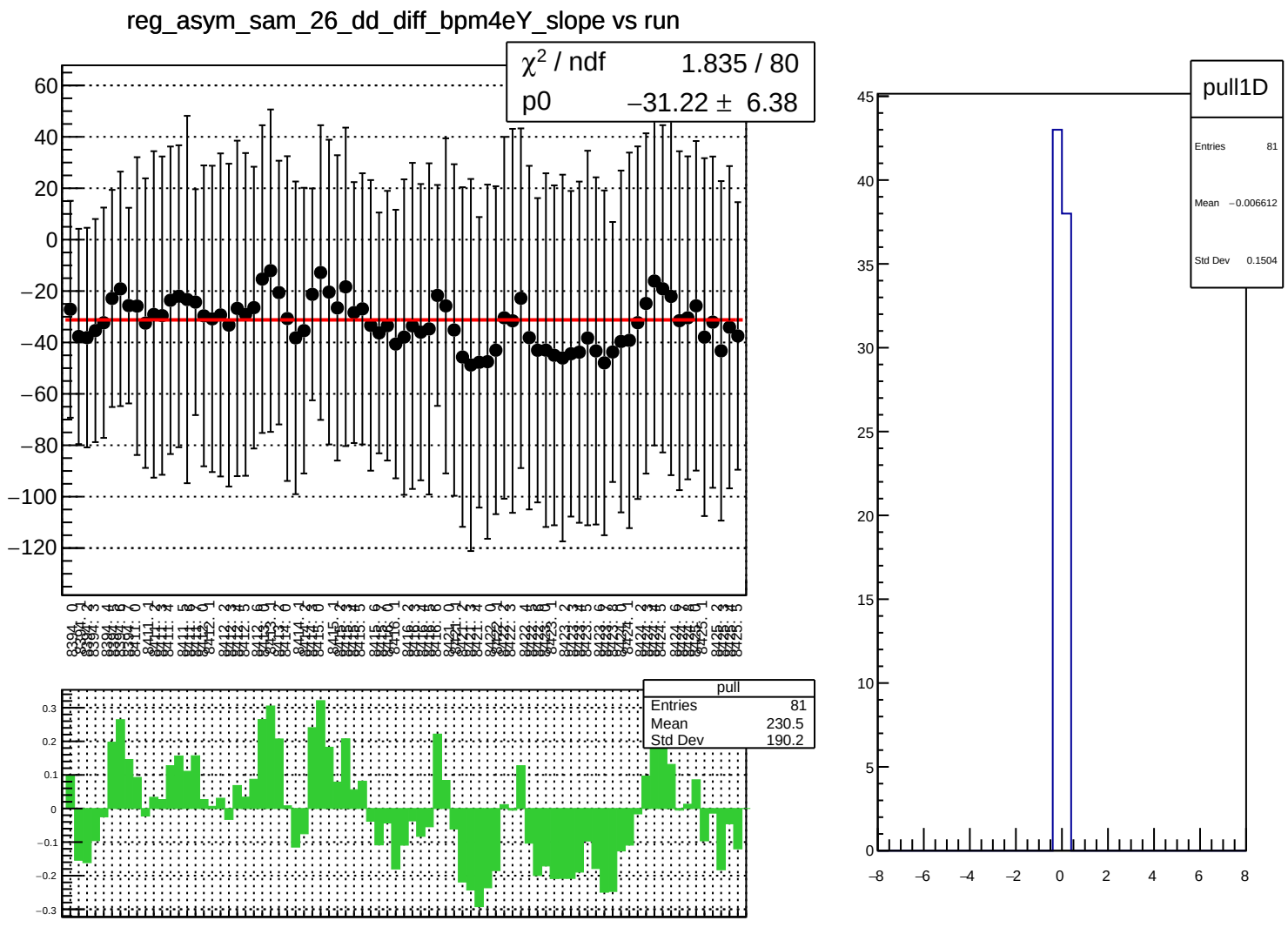

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.7538 / 80
p0 −15.17 ± 3.278
pull
Entries 81
Mean 505.2
Std Dev 464.5

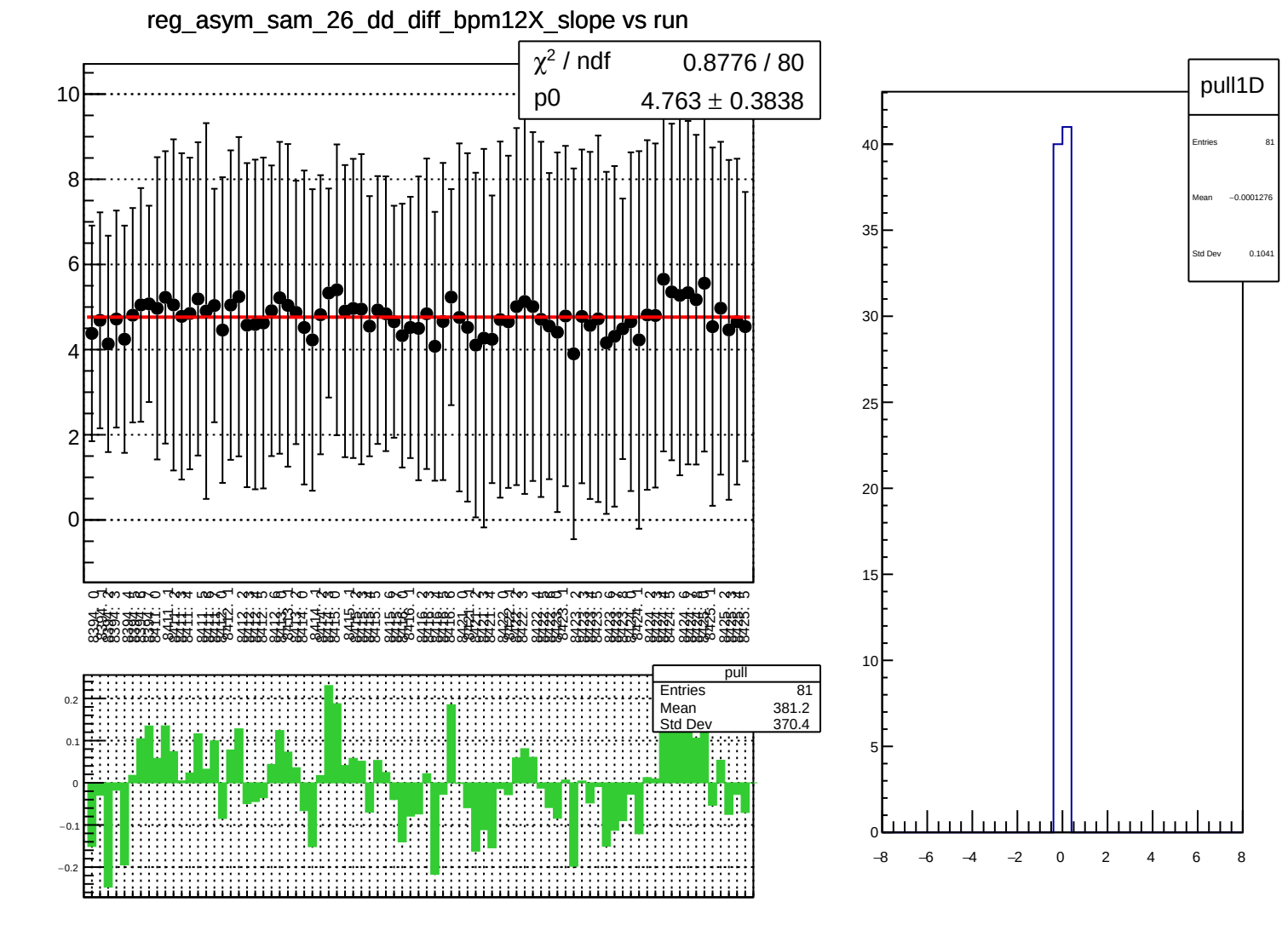

pull1D
Entries 81
Mean 0.002797
Std Dev 0.09643

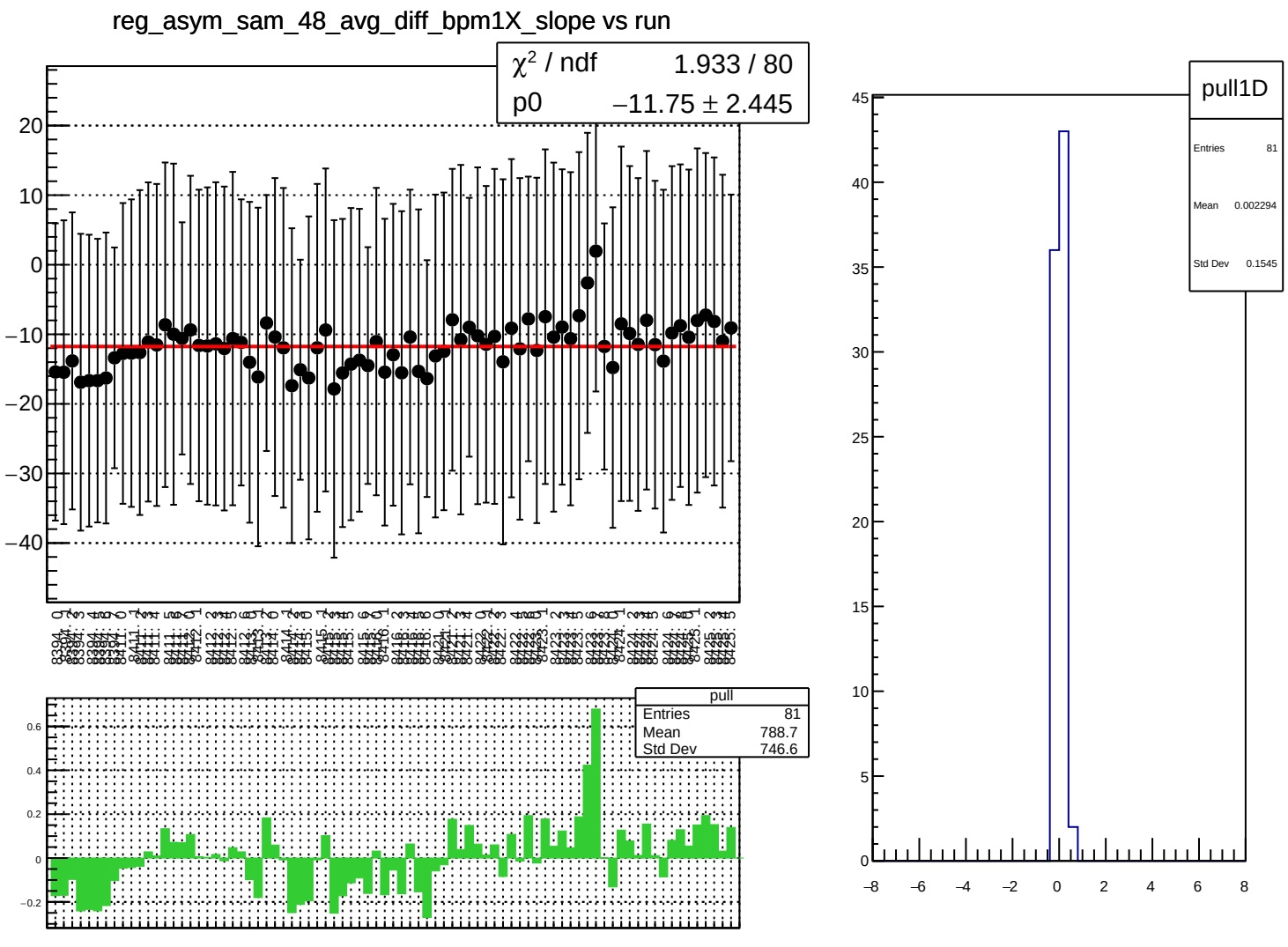

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.873 / 80
p0 −120.2 ± 6.087
pull
Entries 81
Mean 230.2
Std Dev 189.9

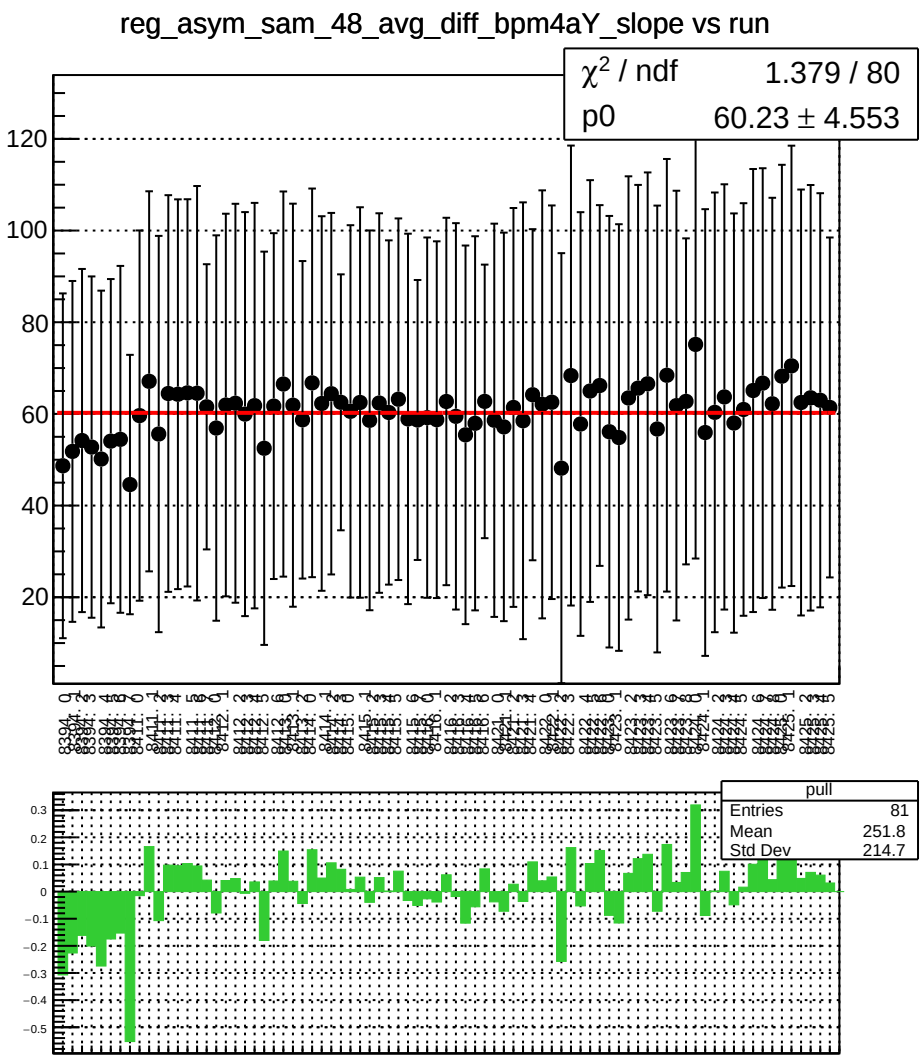

pull1D
Entries 81
Mean 0.008228
Std Dev 0.1519

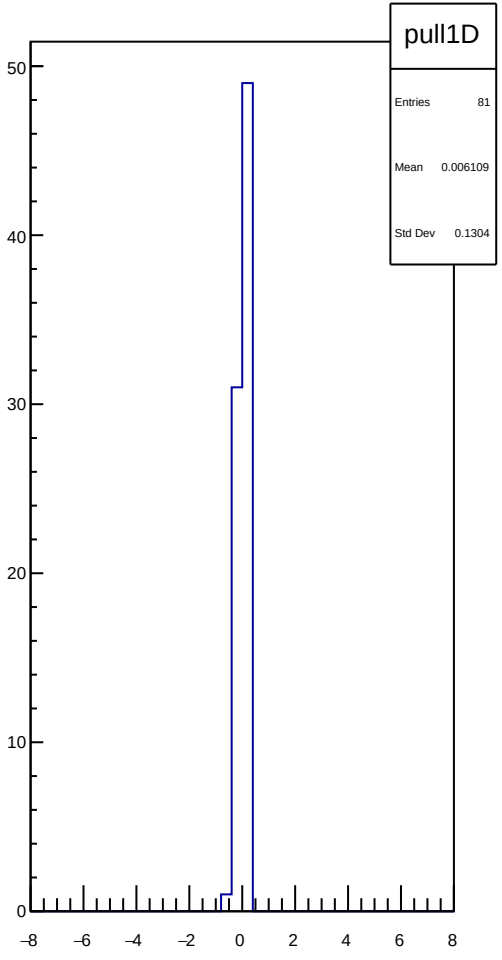

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5592 / 80
p0 −117.9 ± 3.634
pull
Entries 81
Mean 614.3
Std Dev 574.2
pull1D
Entries 81
Mean −0.001377
Std Dev 0.08308

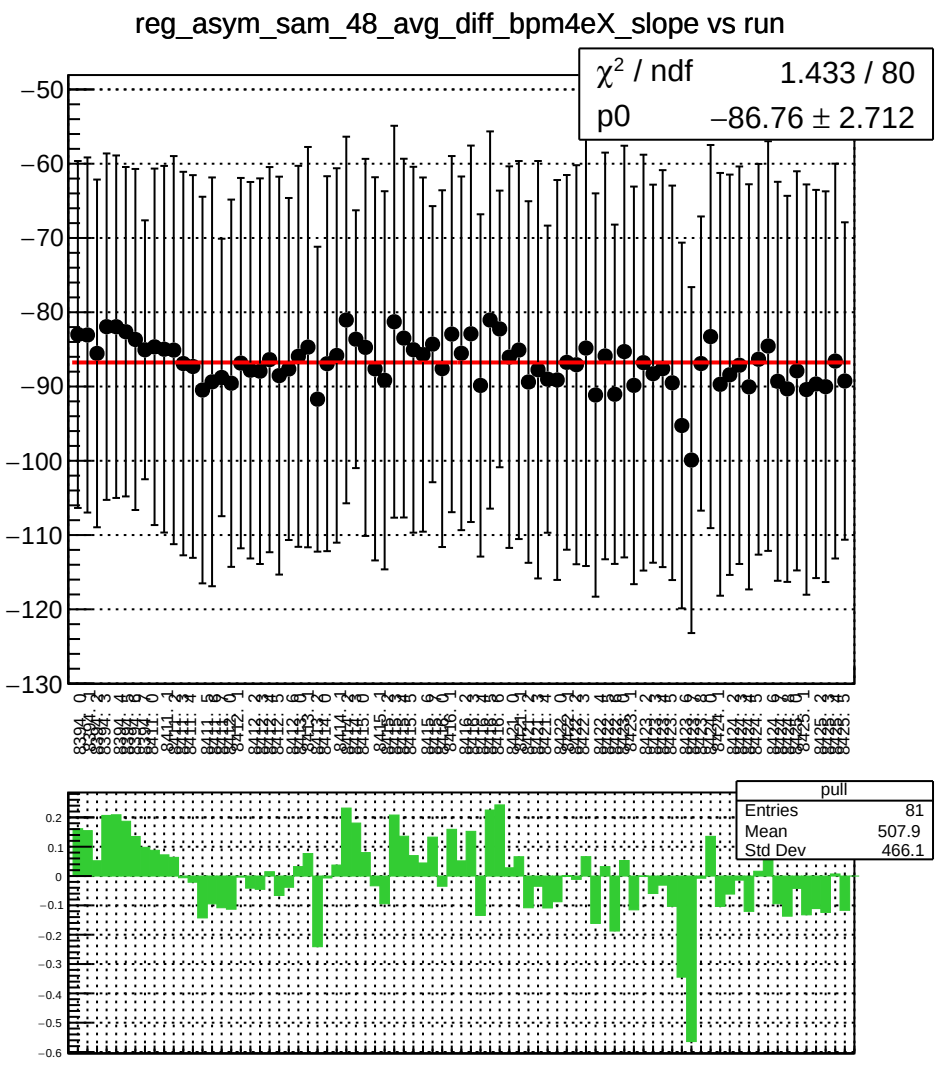

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.835 / 80
p0 −31.22 ± 6.38
pull
Entries 81
Mean 230.5
Std Dev 190.2
pull1D
Entries 81
Mean −0.006612
Std Dev 0.1504

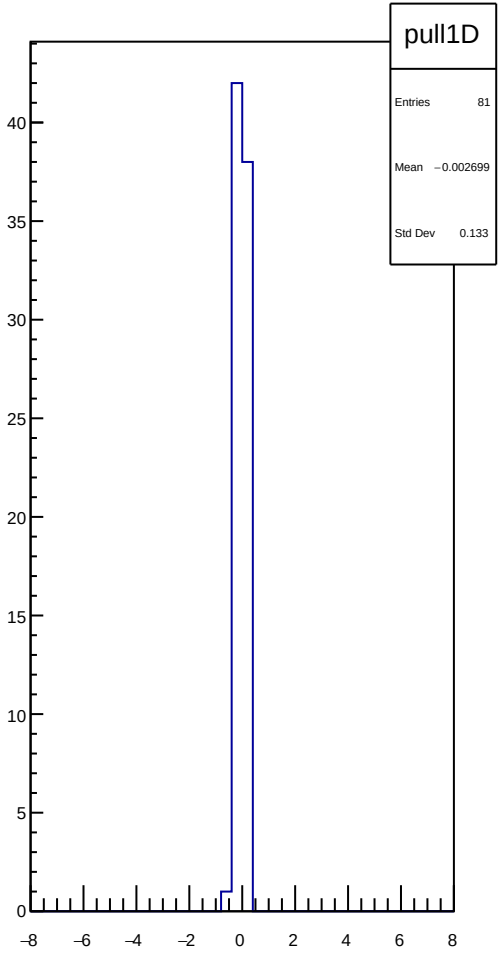

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8776 / 80
p0 4.763 ± 0.3838
pull
Entries 81
Mean 381.2
Std Dev 370.4
pull1D
Entries 81
Mean −0.0001276
Std Dev 0.1041

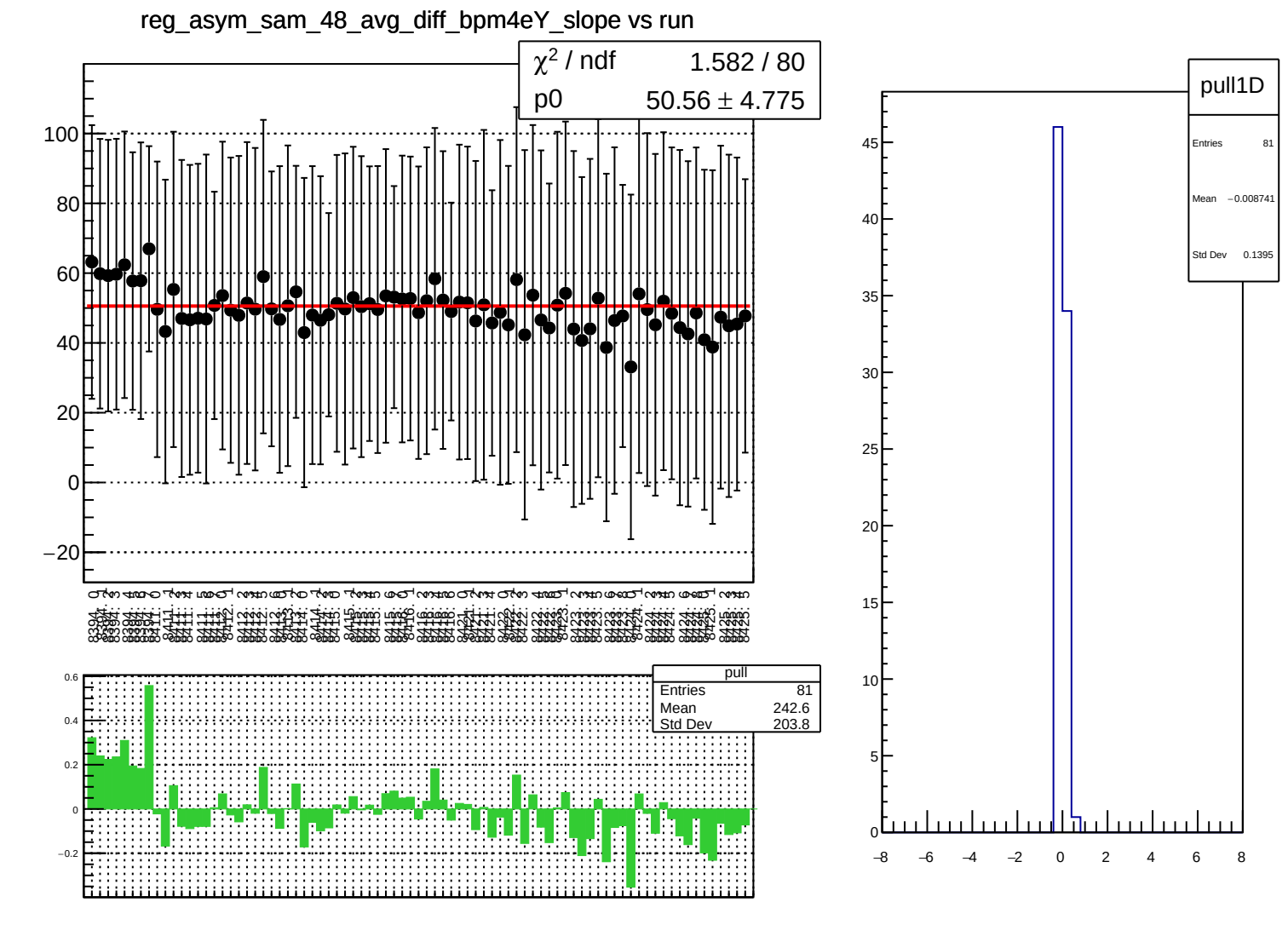

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 1.933 / 80
p0 −11.75 ± 2.445
pull
Entries 81
Mean 788.7
Std Dev 746.6
pull1D
Entries 81
Mean 0.002294
Std Dev 0.1545

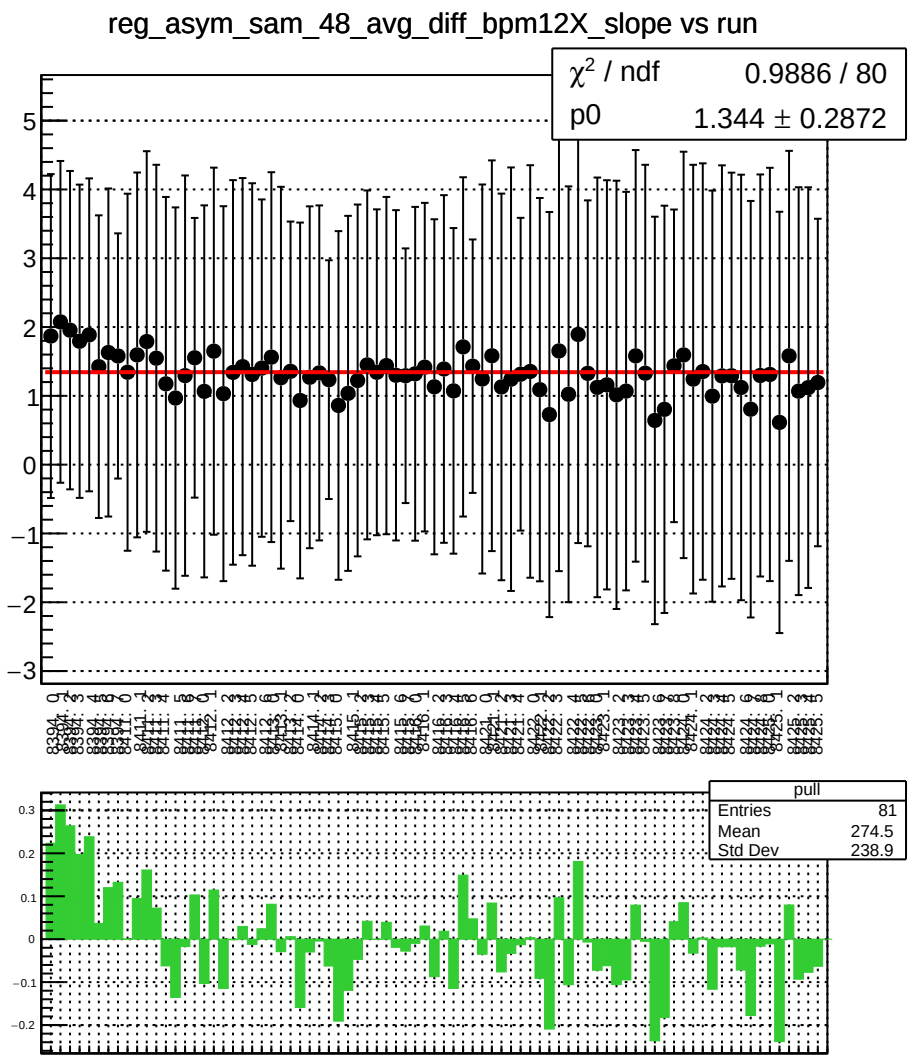

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.379 / 80
p0 60.23 ± 4.553
pull
Entries 81
Mean 251.8
Std Dev 214.7

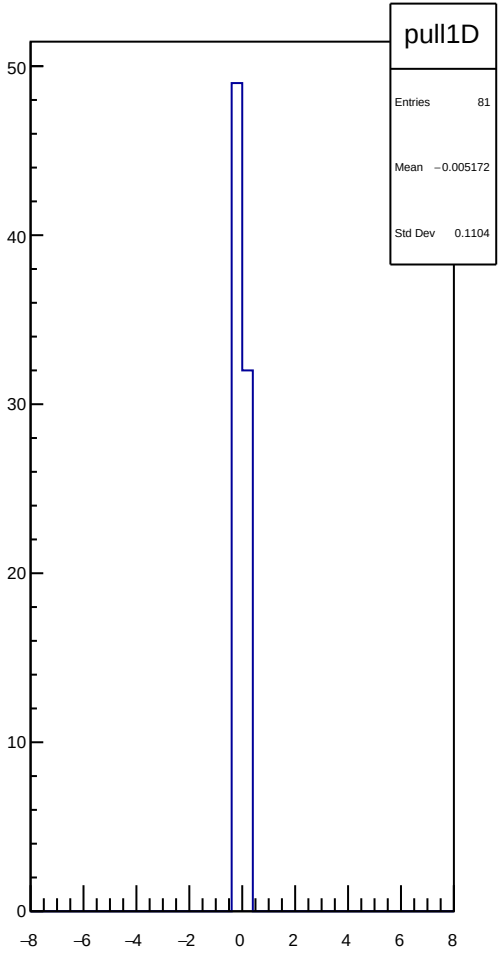

pull1D
Entries 81
Mean 0.006109
Std Dev 0.1304

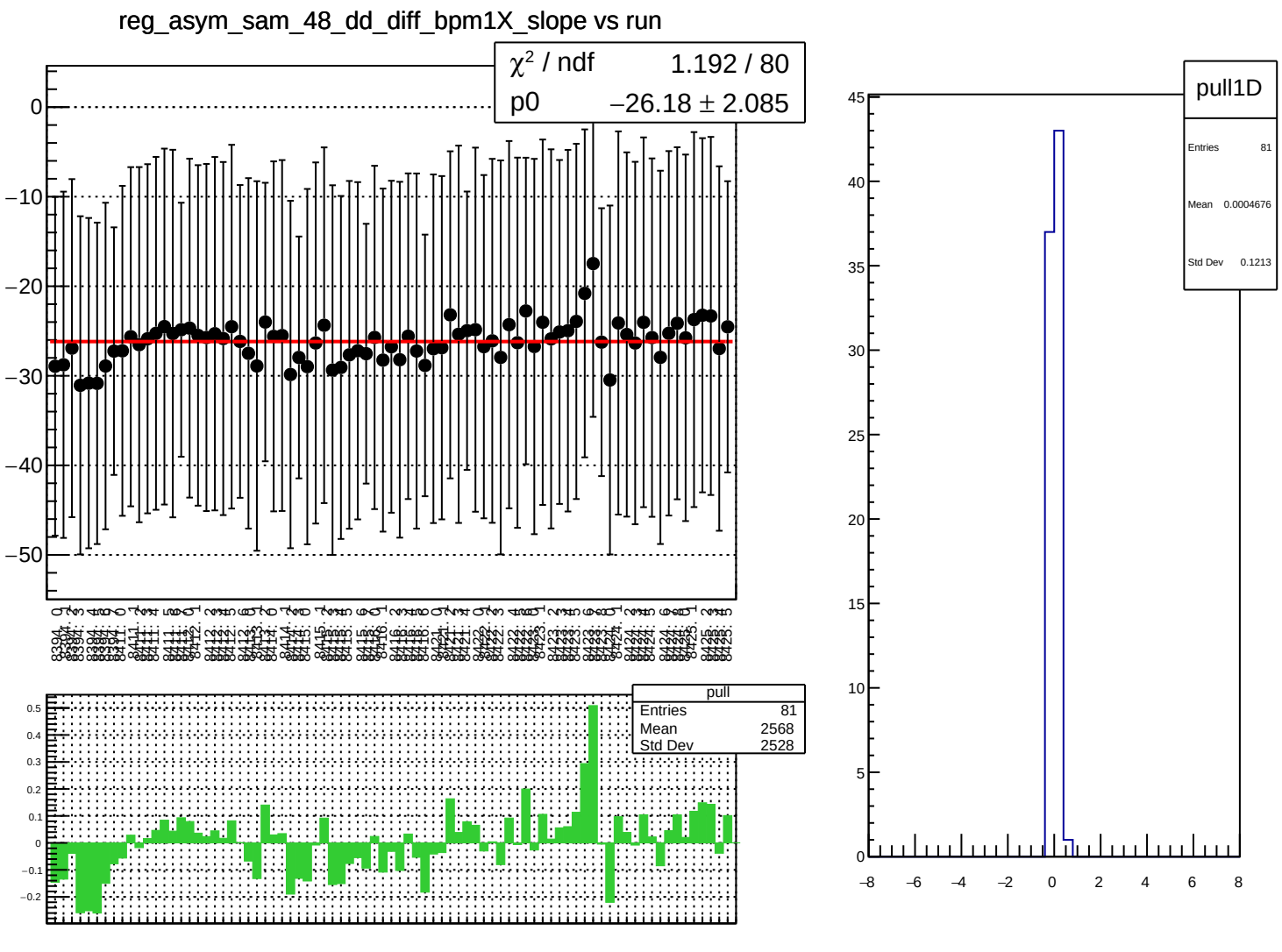

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.433 / 80
p0 −86.76 ± 2.712
pull
Entries 81
Mean 507.9
Std Dev 466.1

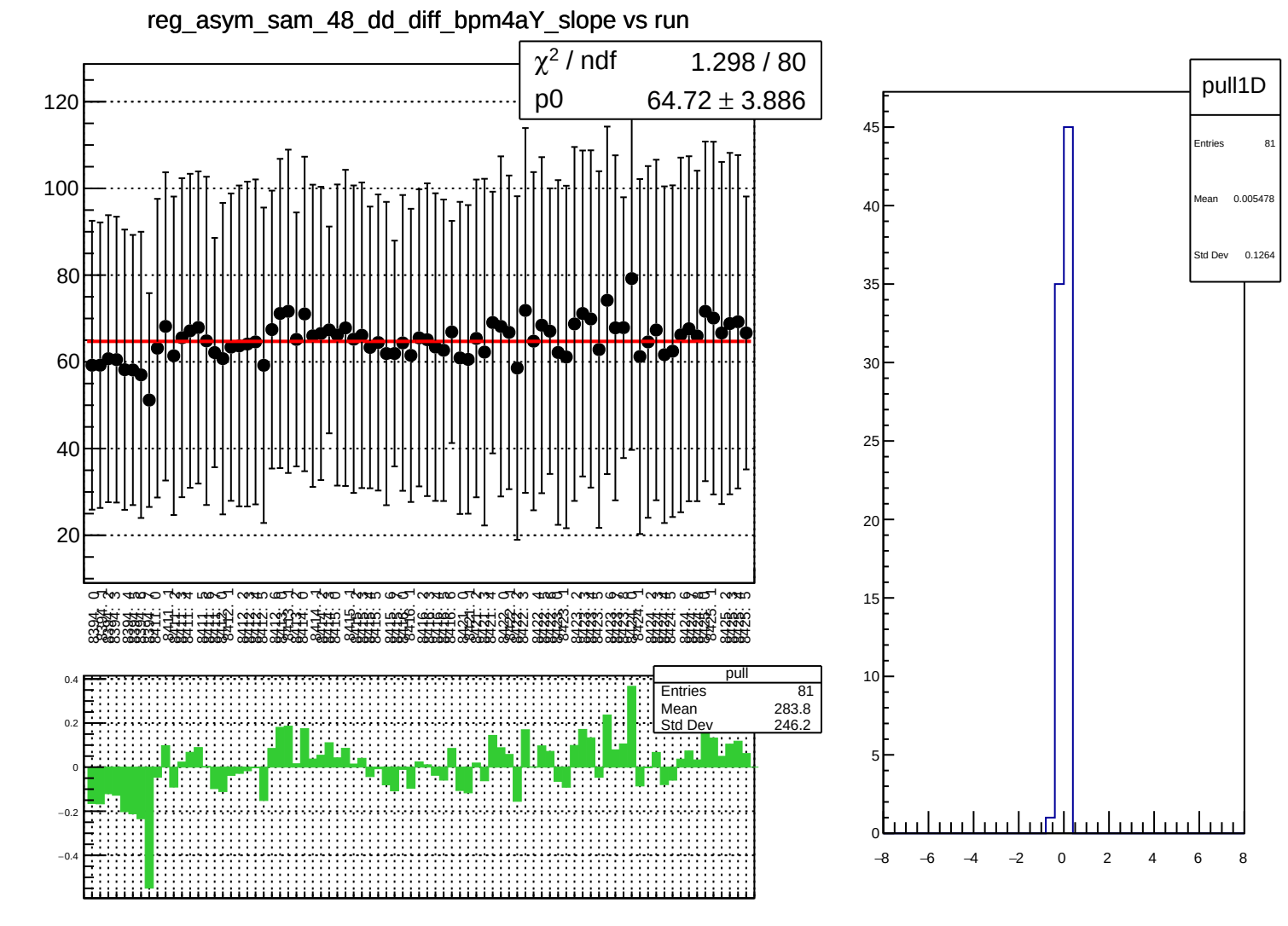

pull1D
Entries 81
Mean −0.002699
Std Dev 0.133

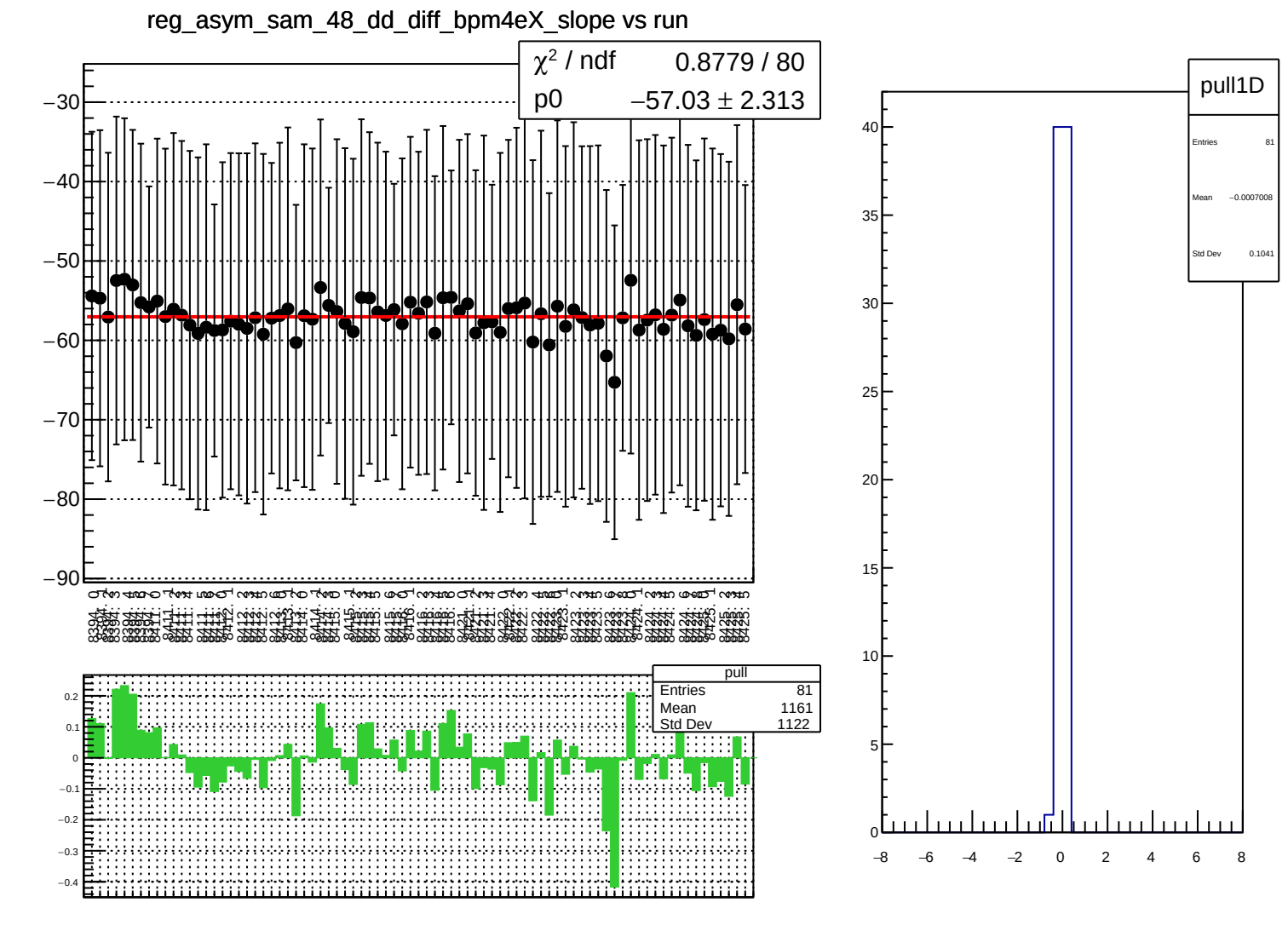

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.582 / 80
p0 50.56 ± 4.775
pull
Entries 81
Mean 242.6
Std Dev 203.8
pull1D
Entries 81
Mean −0.008741
Std Dev 0.1395

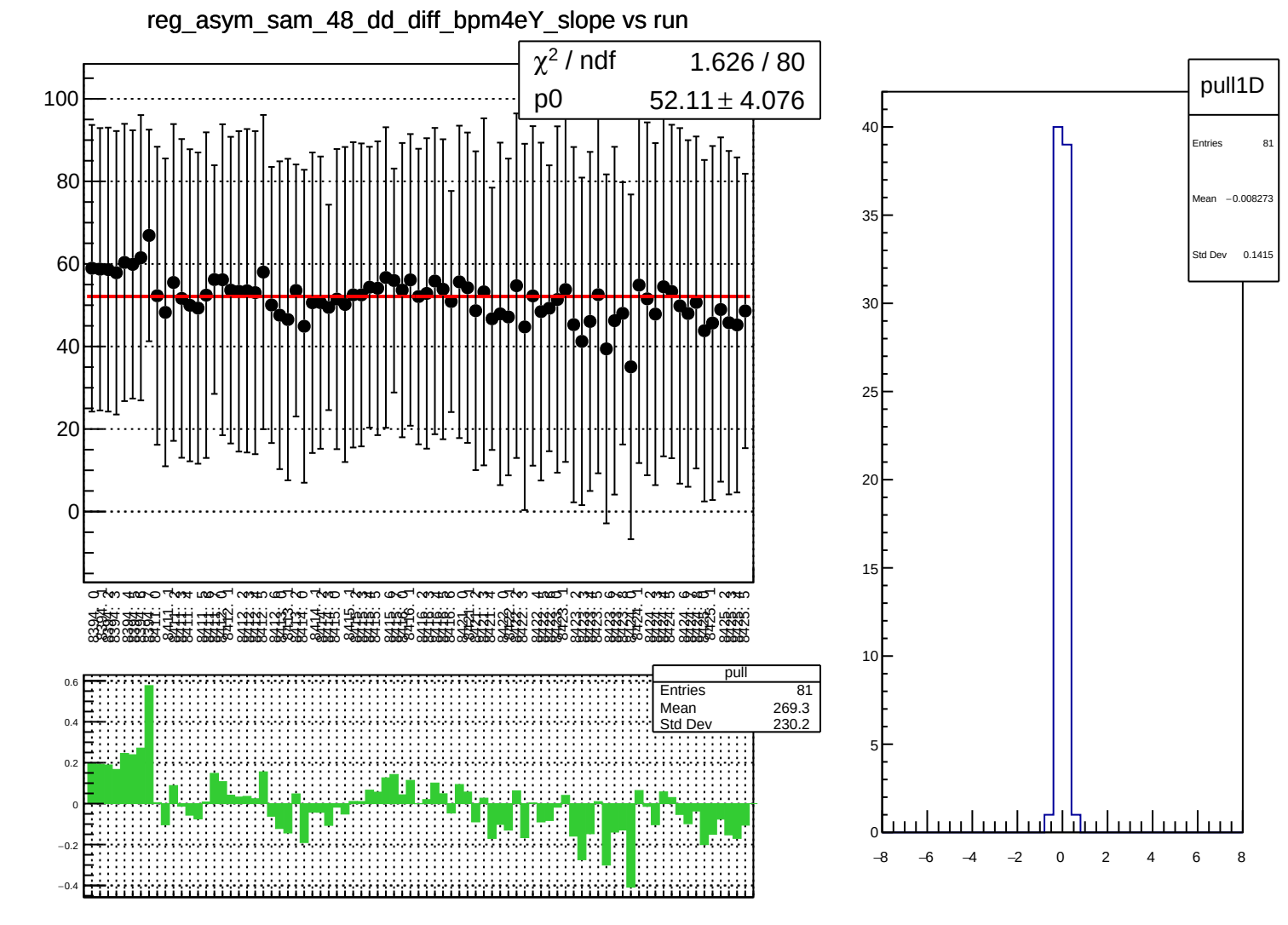

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 0.9886 / 80
p0 1.344 ± 0.2872
pull
Entries 81
Mean 274.5
Std Dev 238.9

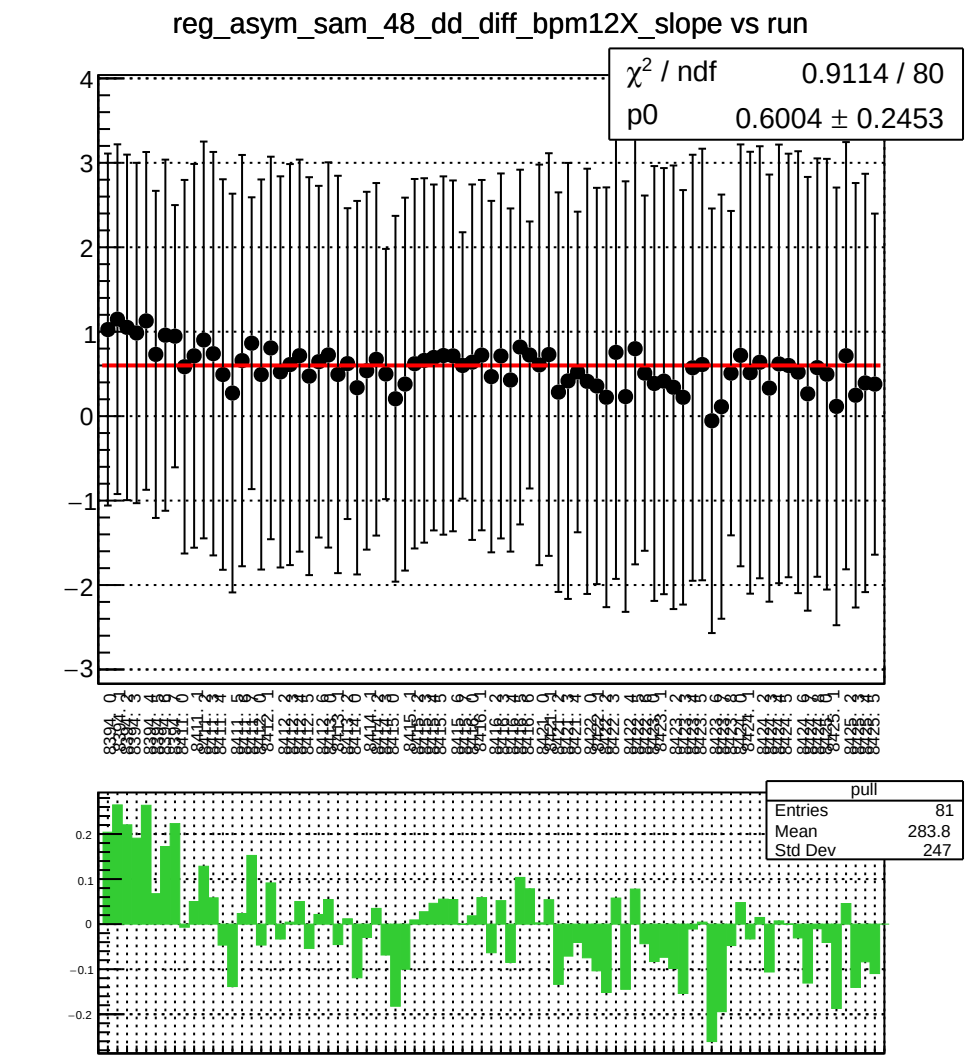

pull1D
Entries 81
Mean −0.005172
Std Dev 0.1104

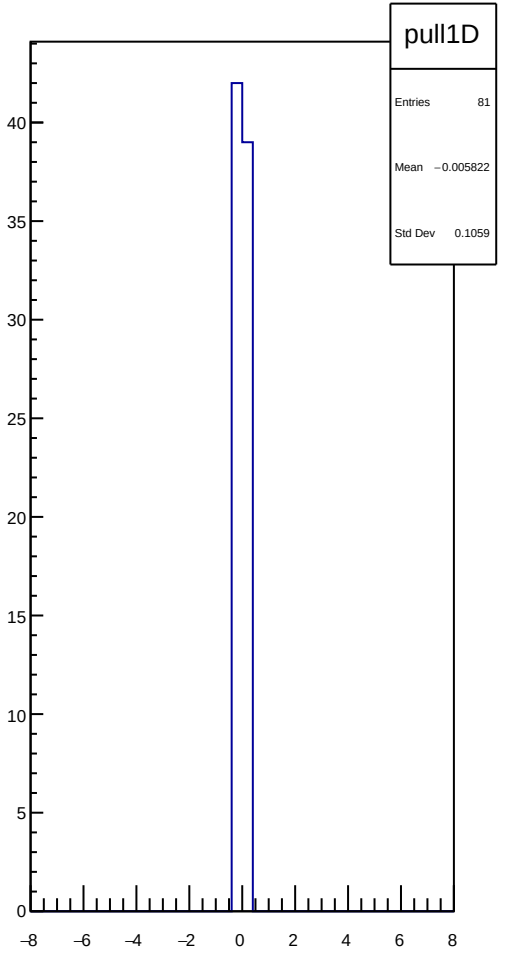

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.192 / 80
p0 −26.18 ± 2.085
pull
Entries 81
Mean 2568
Std Dev 2528
pull1D
Entries 81
Mean 0.0004676
Std Dev 0.1213

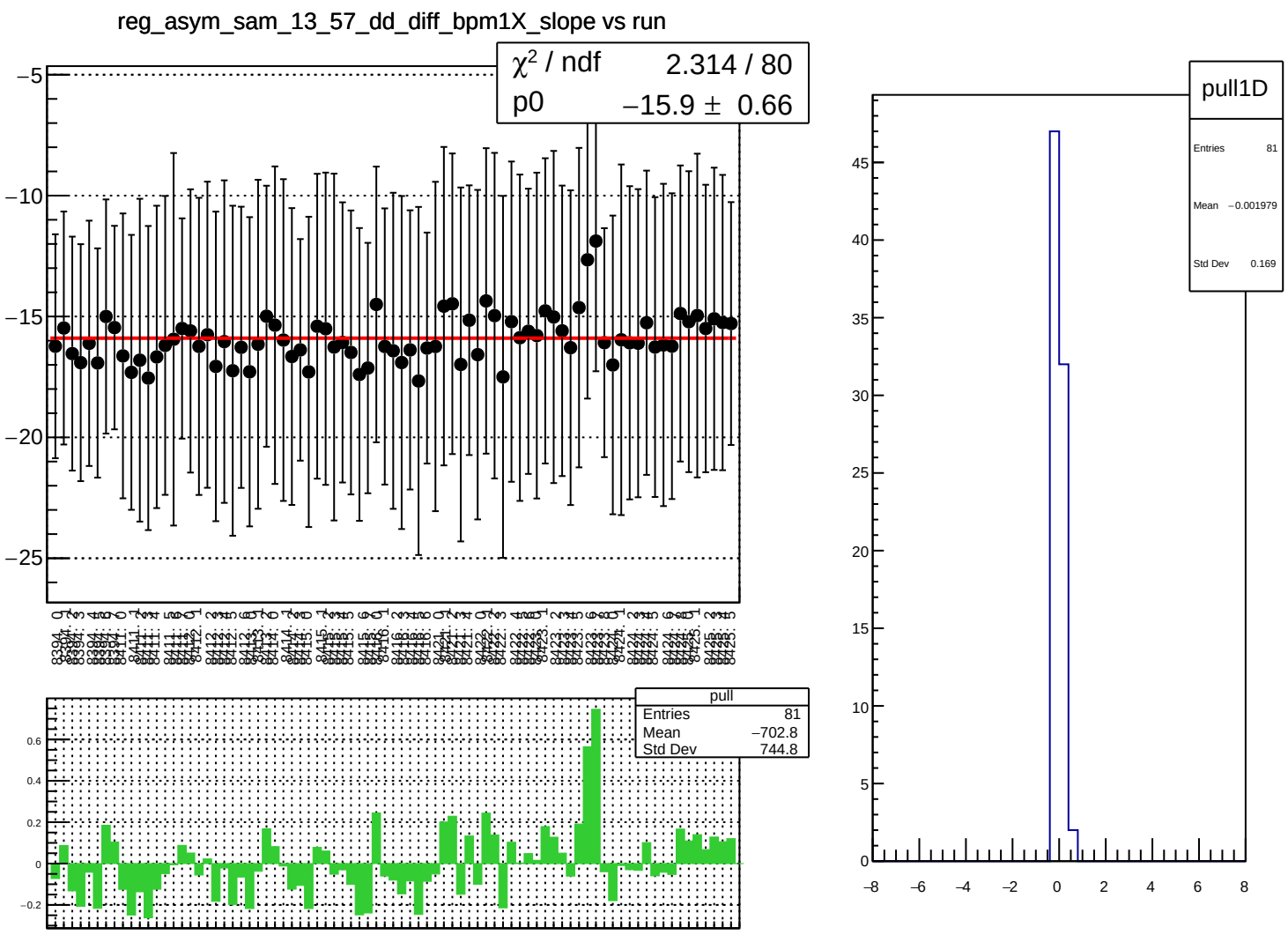

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 1.298 / 80
p0 64.72 ± 3.886
pull
Entries 81
Mean 283.8
Std Dev 246.2
pull1D
Entries 81
Mean 0.005478
Std Dev 0.1264

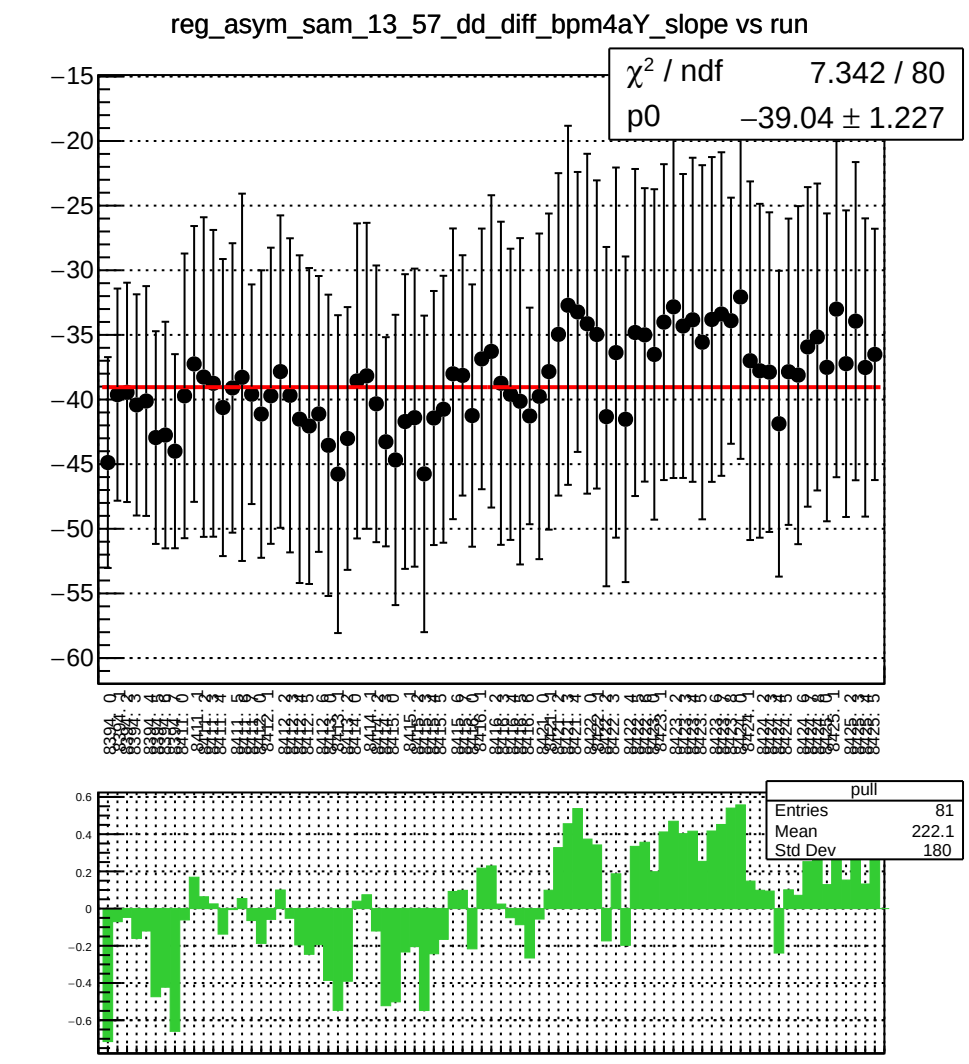

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.8779 / 80
p0 −57.03 ± 2.313
pull
Entries 81
Mean 1161
Std Dev 1122
pull1D
Entries 81
Mean −0.0007008
Std Dev 0.1041

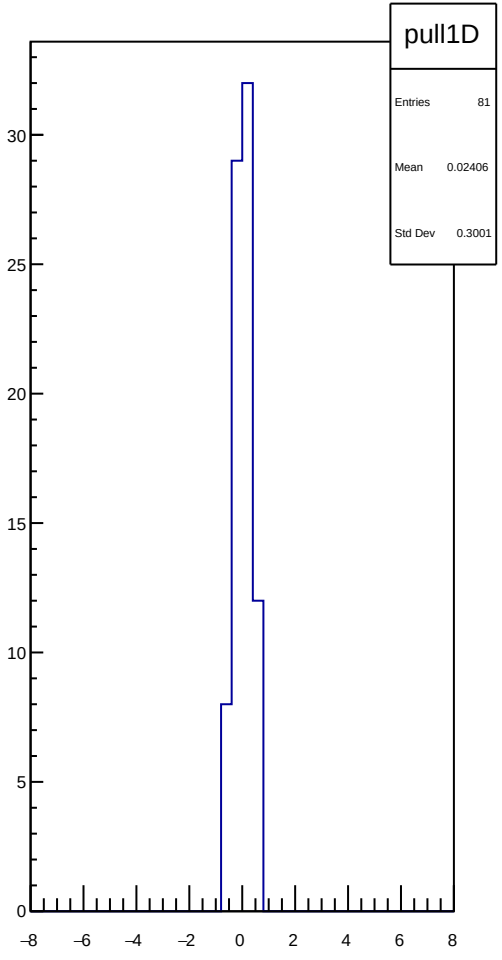

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.626 / 80
p0 52.11 ± 4.076
pull
Entries 81
Mean 269.3
Std Dev 230.2
pull1D
Entries 81
Mean −0.008273
Std Dev 0.1415

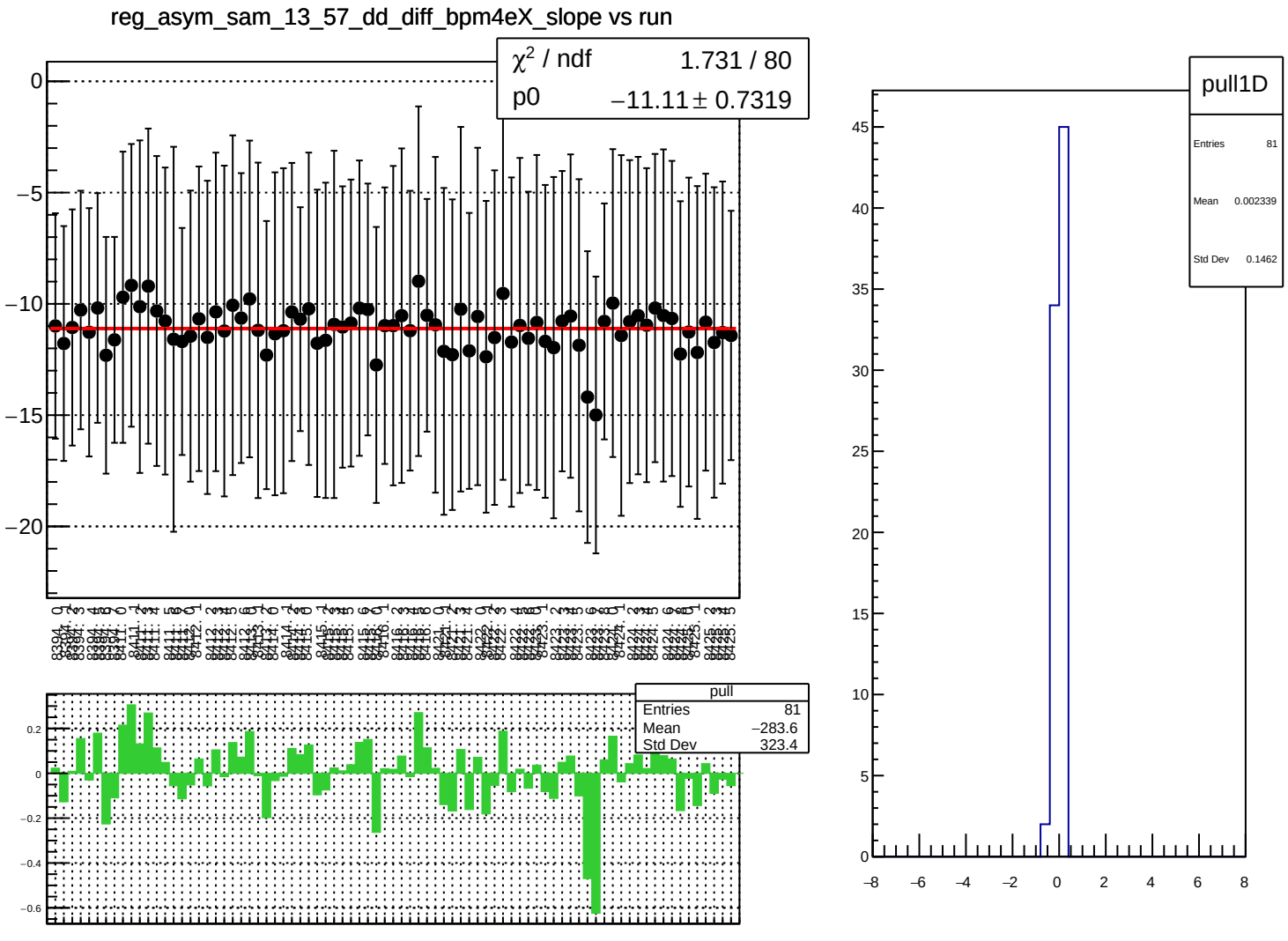

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.9114 / 80
p0 0.6004 ± 0.2453
pull
Entries 81
Mean 283.8
Std Dev 247

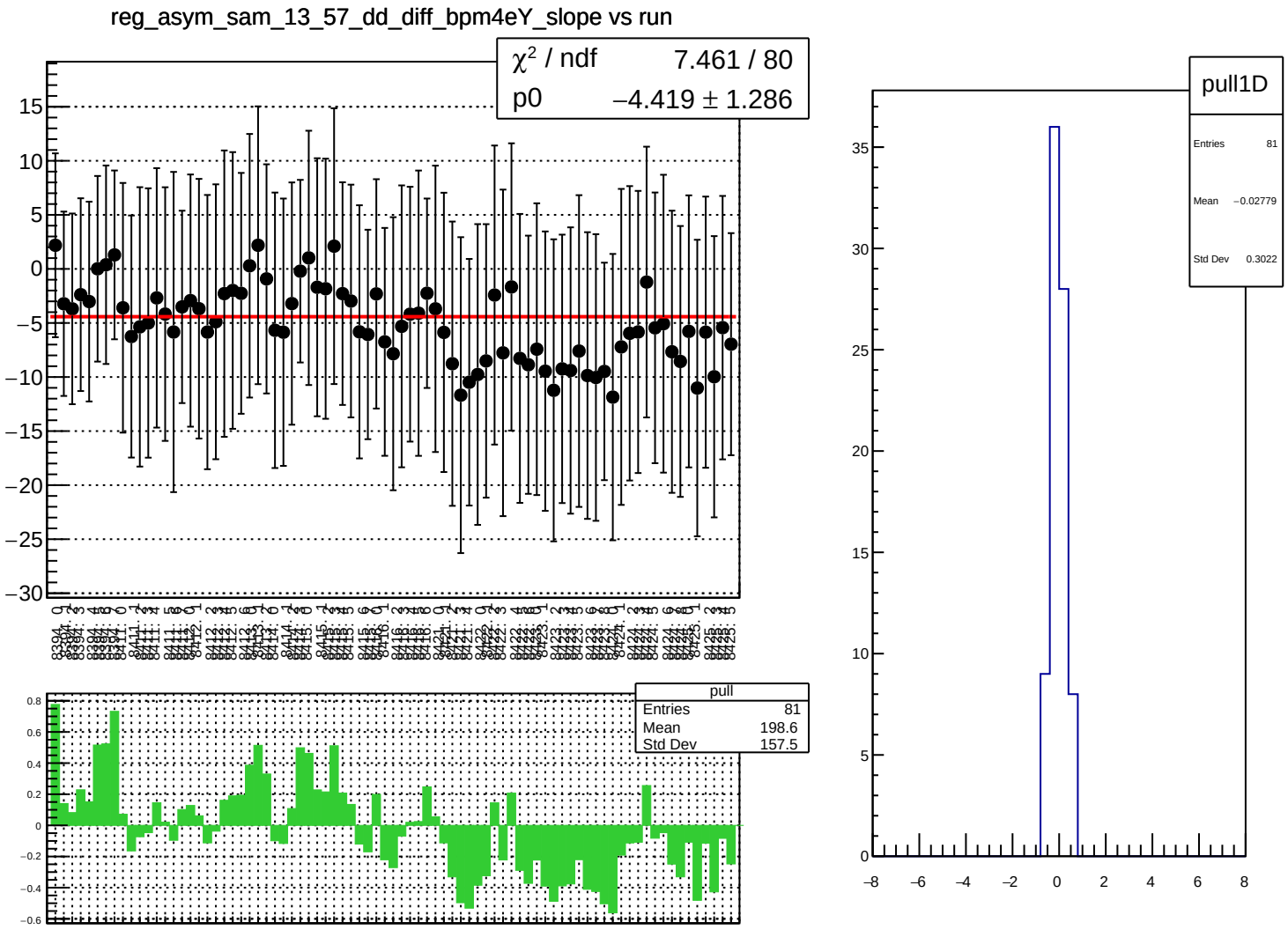

pull1D
Entries 81
Mean −0.005822
Std Dev 0.1059

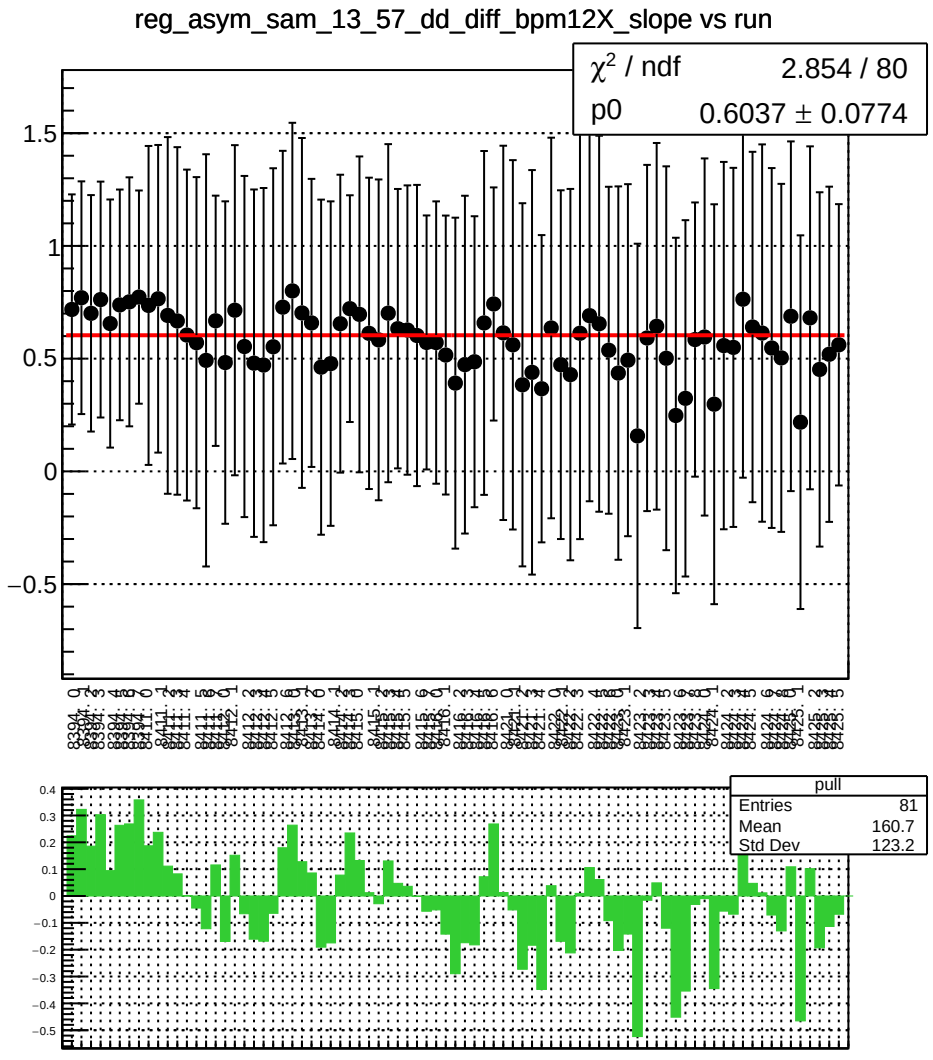

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 2.314 / 80
p0 −15.9 ± 0.66
pull
Entries 81
Mean −702.8
Std Dev 744.8
pull1D
Entries 81
Mean −0.001979
Std Dev 0.169

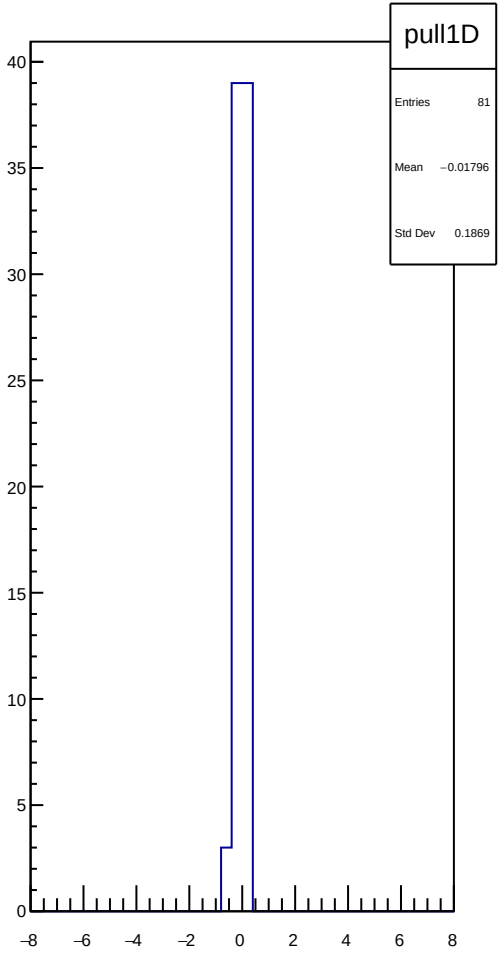

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.342 / 80
p0 −39.04 ± 1.227
pull
Entries 81
Mean 222.1
Std Dev 180

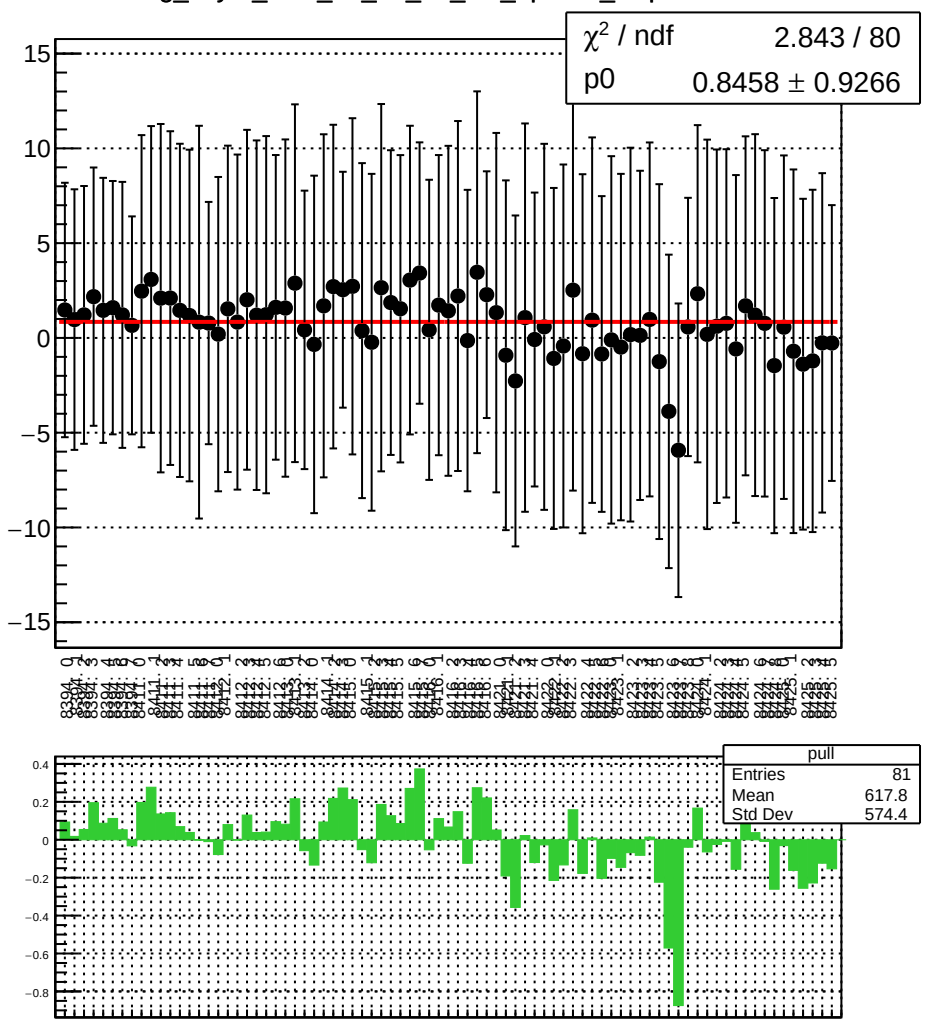

pull1D
Entries 81
Mean 0.02406
Std Dev 0.3001

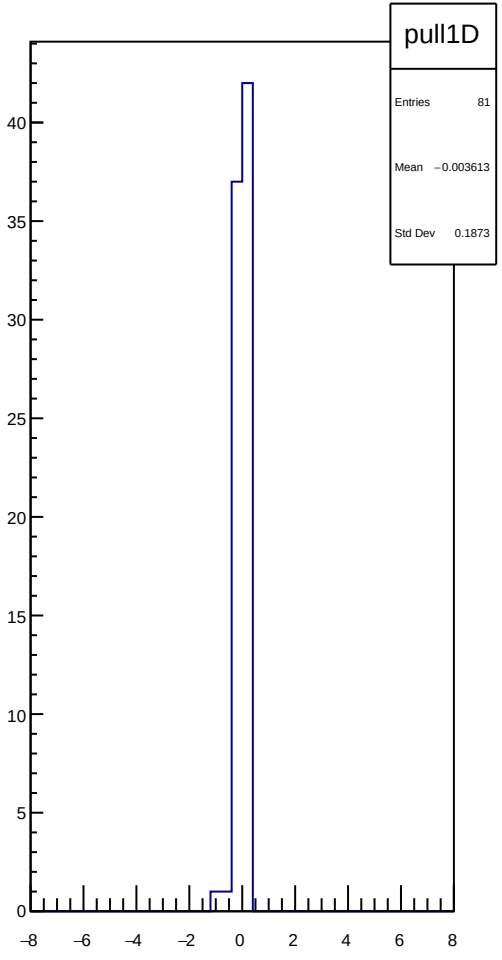

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.731 / 80
p0 −11.11 ± 0.7319
pull
Entries 81
Mean −283.6
Std Dev 323.4
pull1D
Entries 81
Mean 0.002339
Std Dev 0.1462

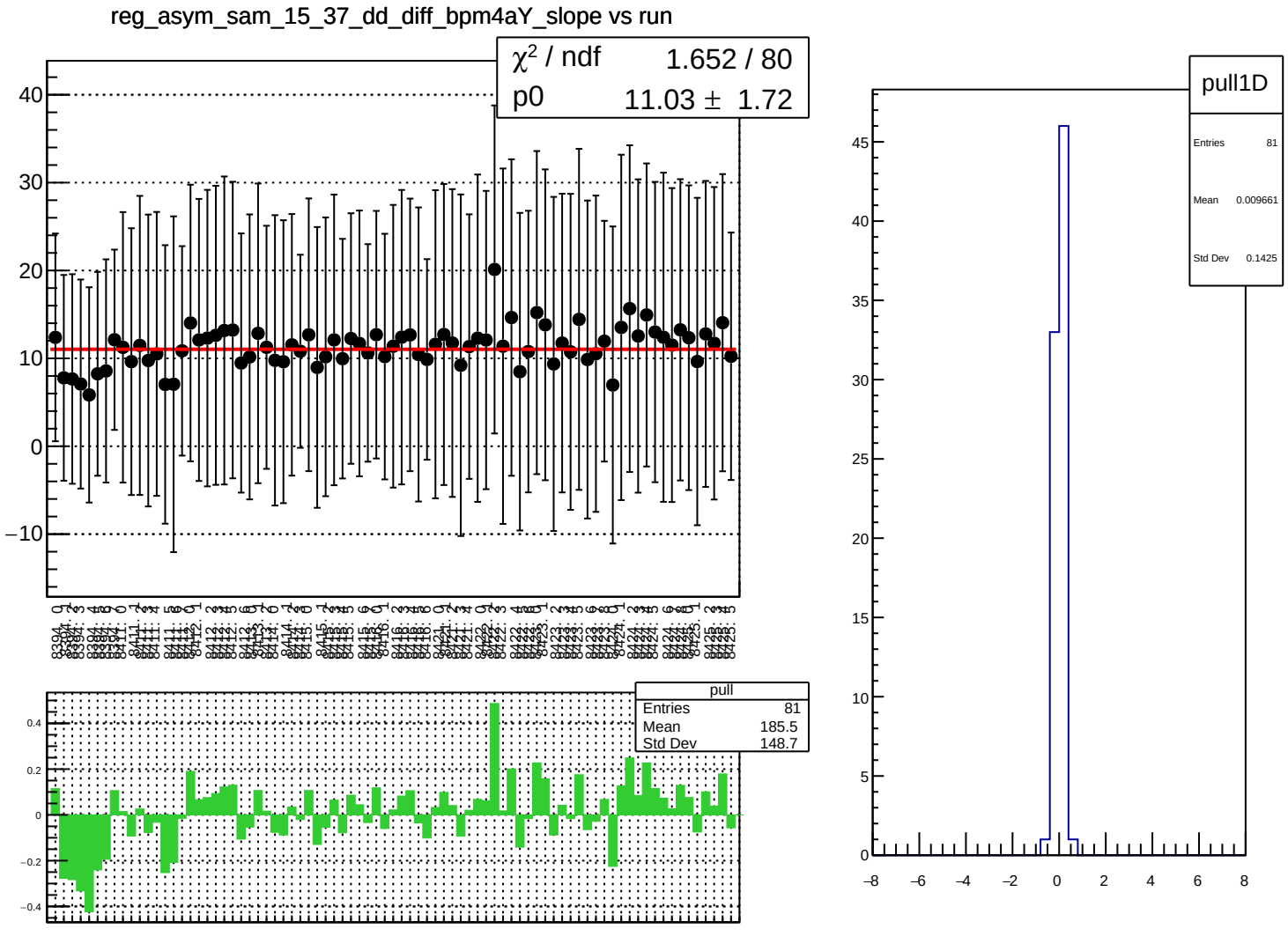

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.461 / 80
p0 −4.419 ± 1.286
pull
Entries 81
Mean 198.6
Std Dev 157.5
pull1D
Entries 81
Mean −0.02779
Std Dev 0.3022

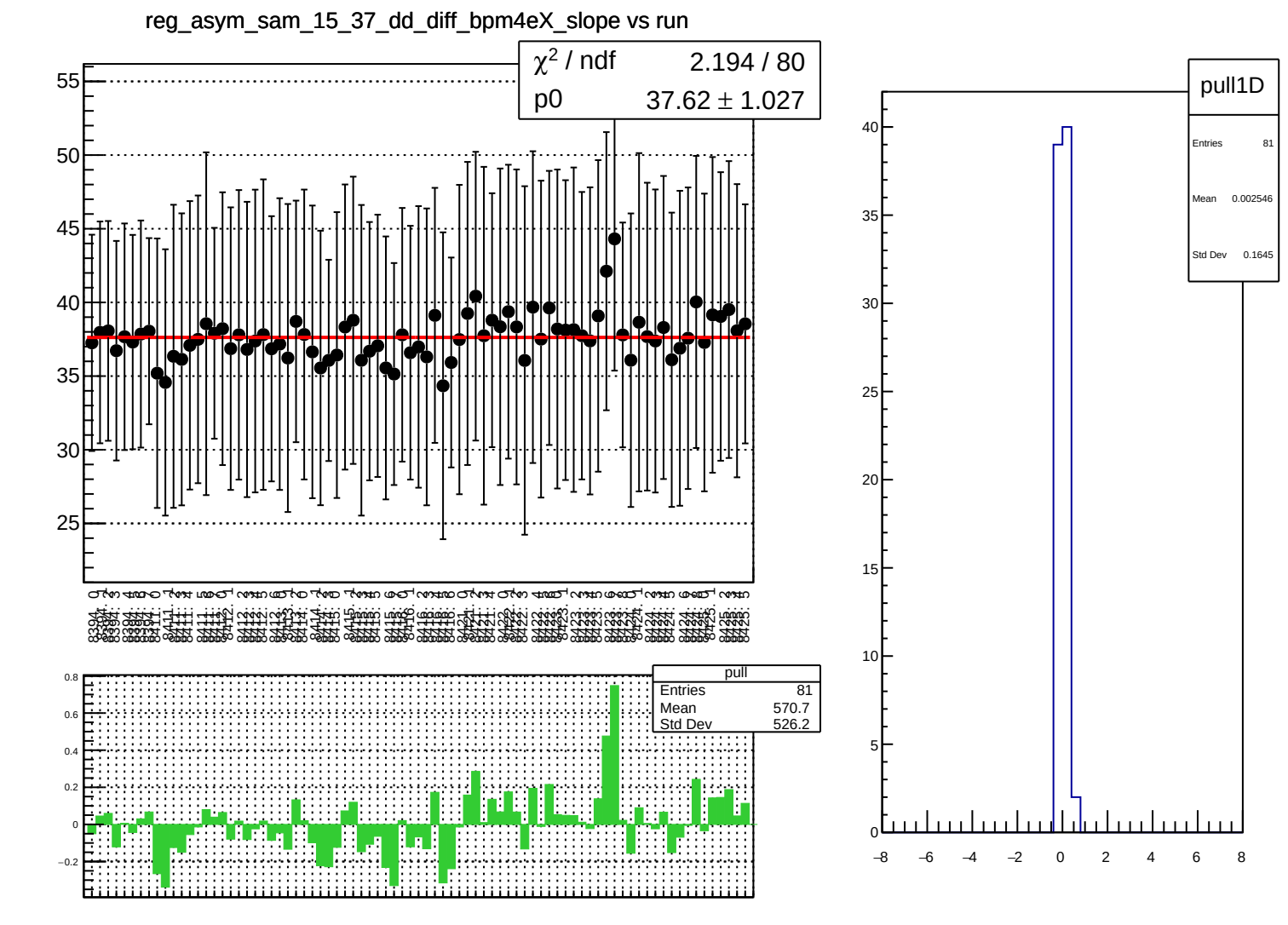

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 2.854 / 80
p0 0.6037 ± 0.0774
pull
Entries 81
Mean 160.7
Std Dev 123.2

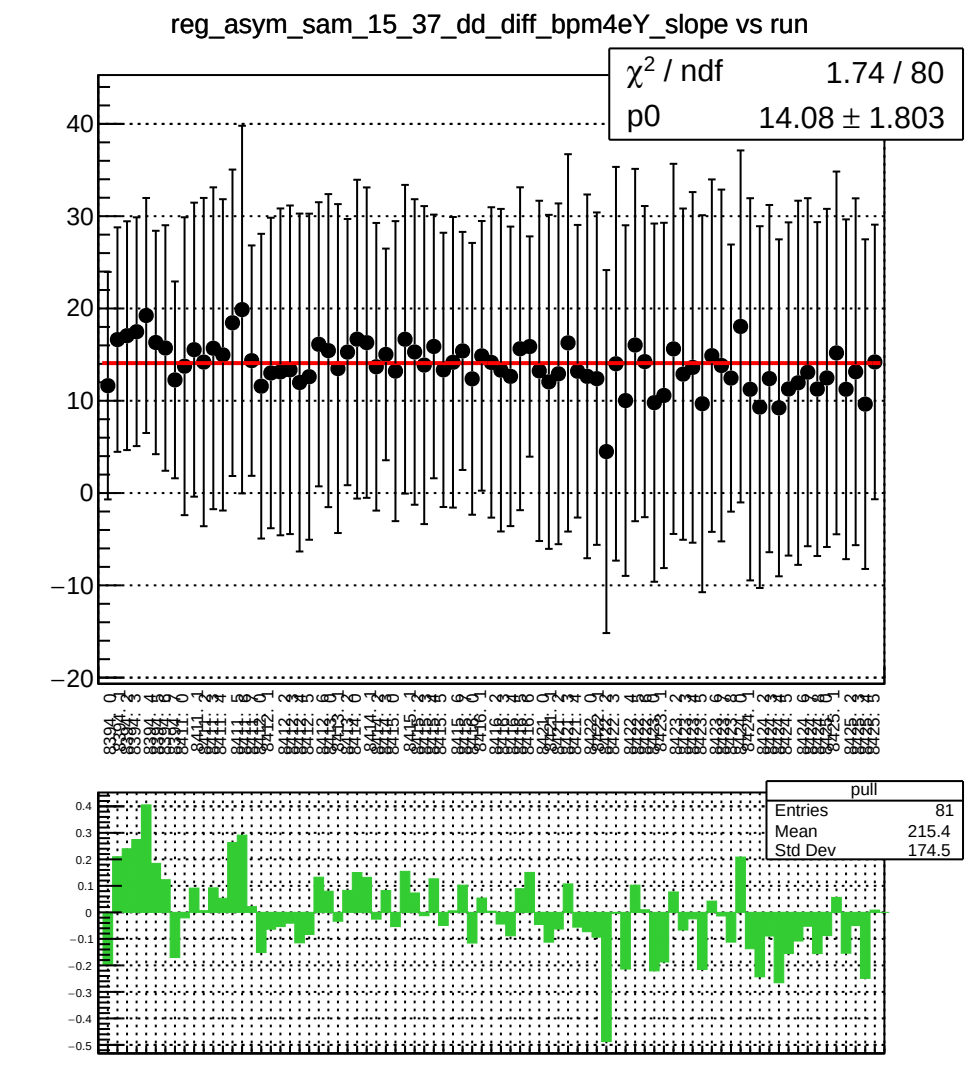

pull1D
Entries 81
Mean −0.01796
Std Dev 0.1869

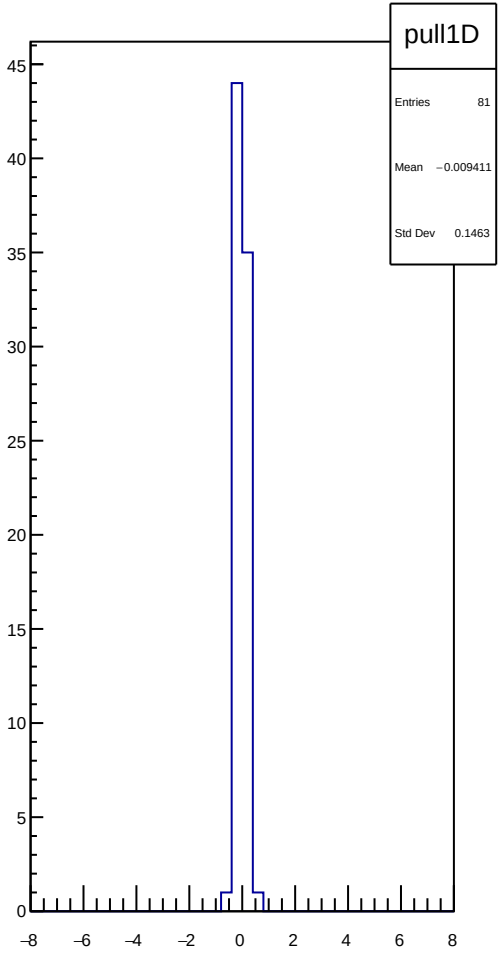

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 2.843 / 80
p0 0.8458 ± 0.9266
pull
Entries 81
Mean 617.8
Std Dev 574.4

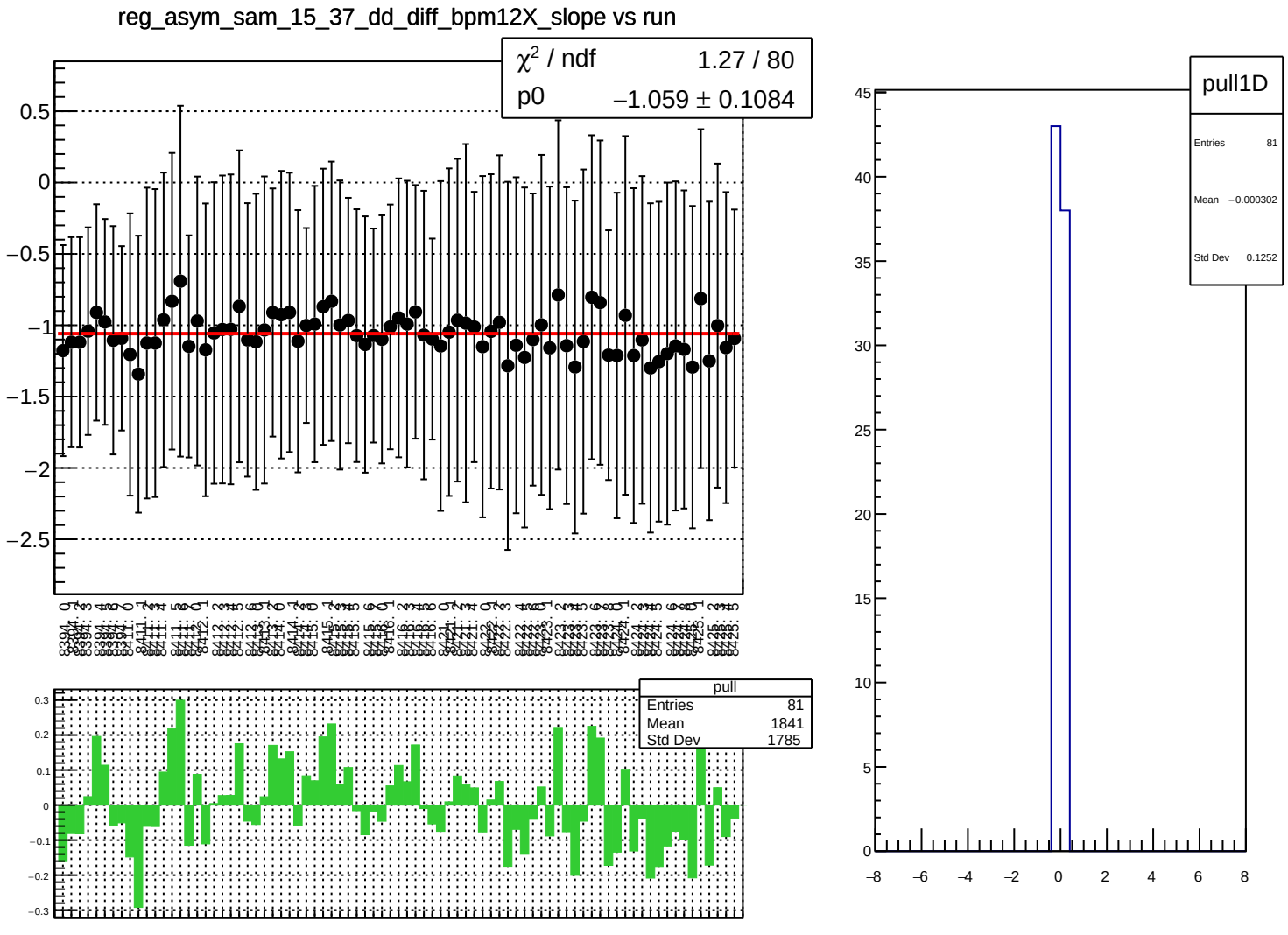

pull1D
Entries 81
Mean −0.003613
Std Dev 0.1873

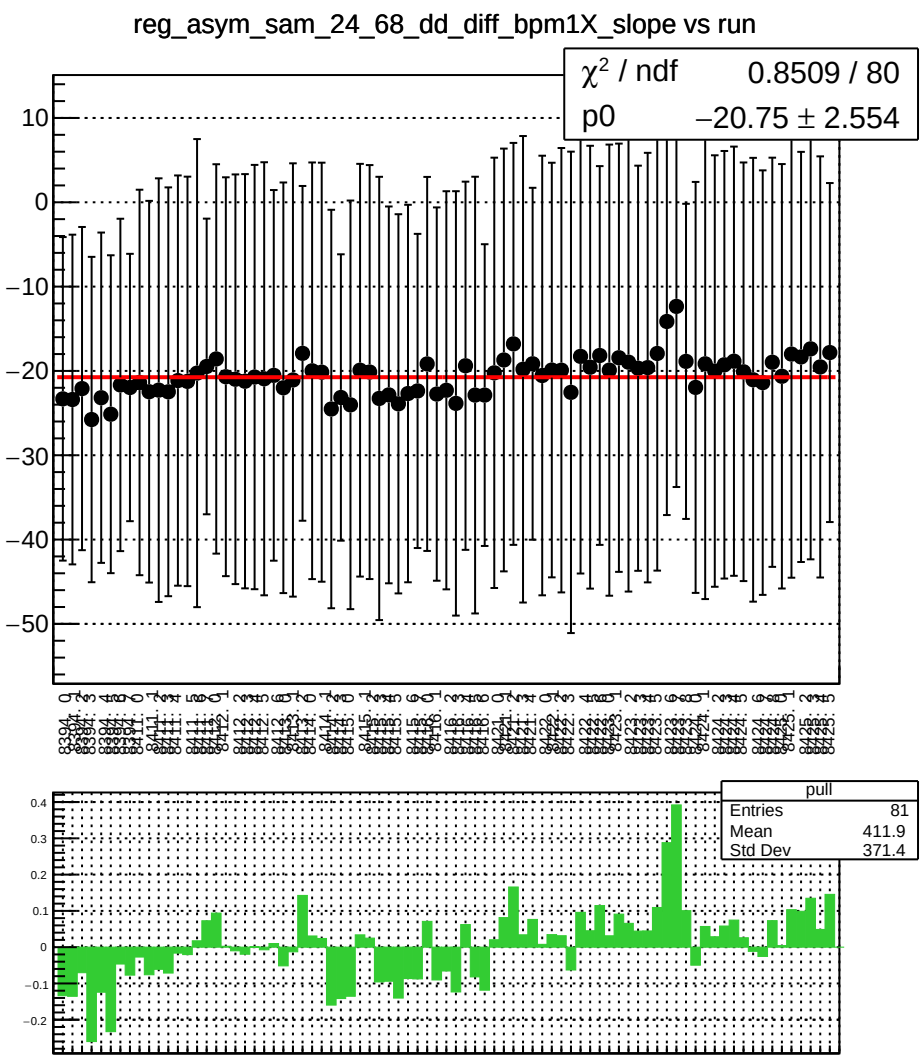

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.652 / 80
p0 11.03 ± 1.72
pull
Entries 81
Mean 185.5
Std Dev 148.7
pull1D
Entries 81
Mean 0.009661
Std Dev 0.1425

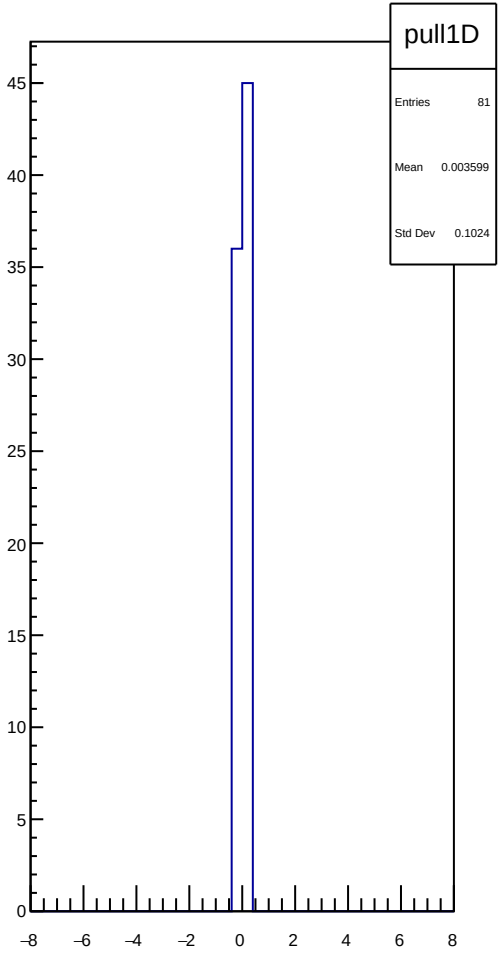

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.194 / 80
p0 37.62 ± 1.027
pull
Entries 81
Mean 570.7
Std Dev 526.2
pull1D
Entries 81
Mean 0.002546
Std Dev 0.1645

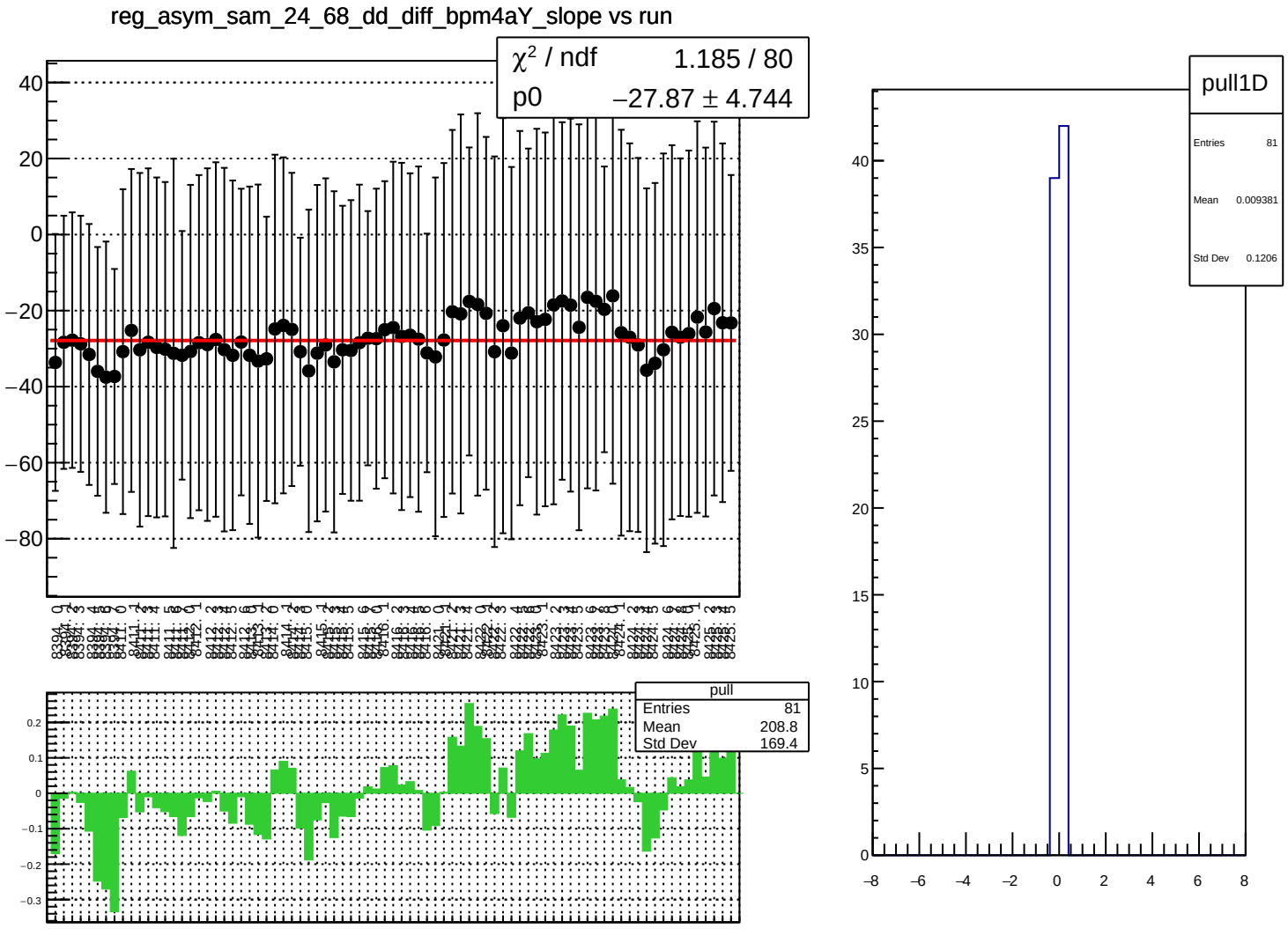

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.74 / 80
p0 14.08 ± 1.803
pull
Entries 81
Mean 215.4
Std Dev 174.5

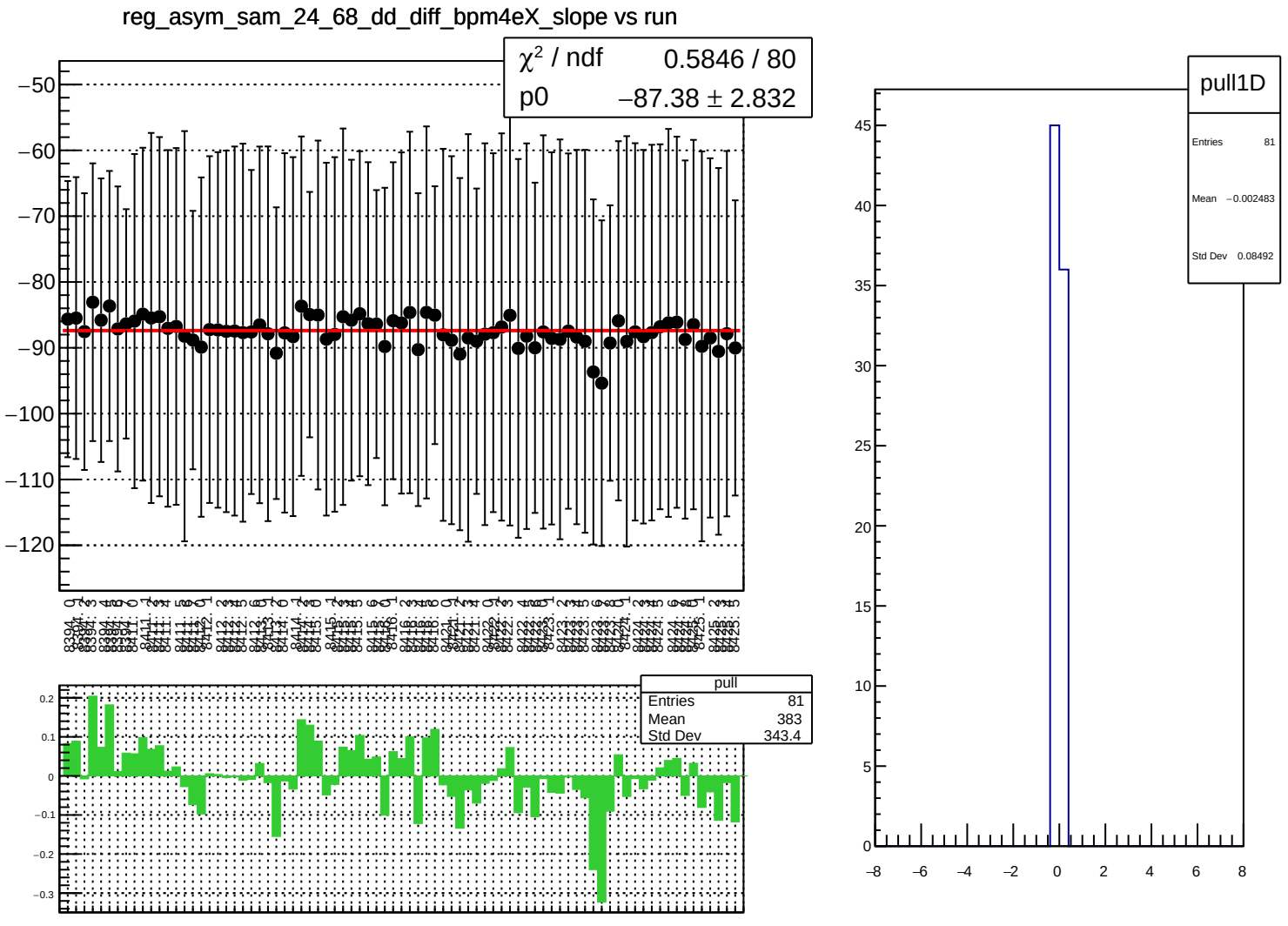

pull1D
Entries 81
Mean −0.009411
Std Dev 0.1463

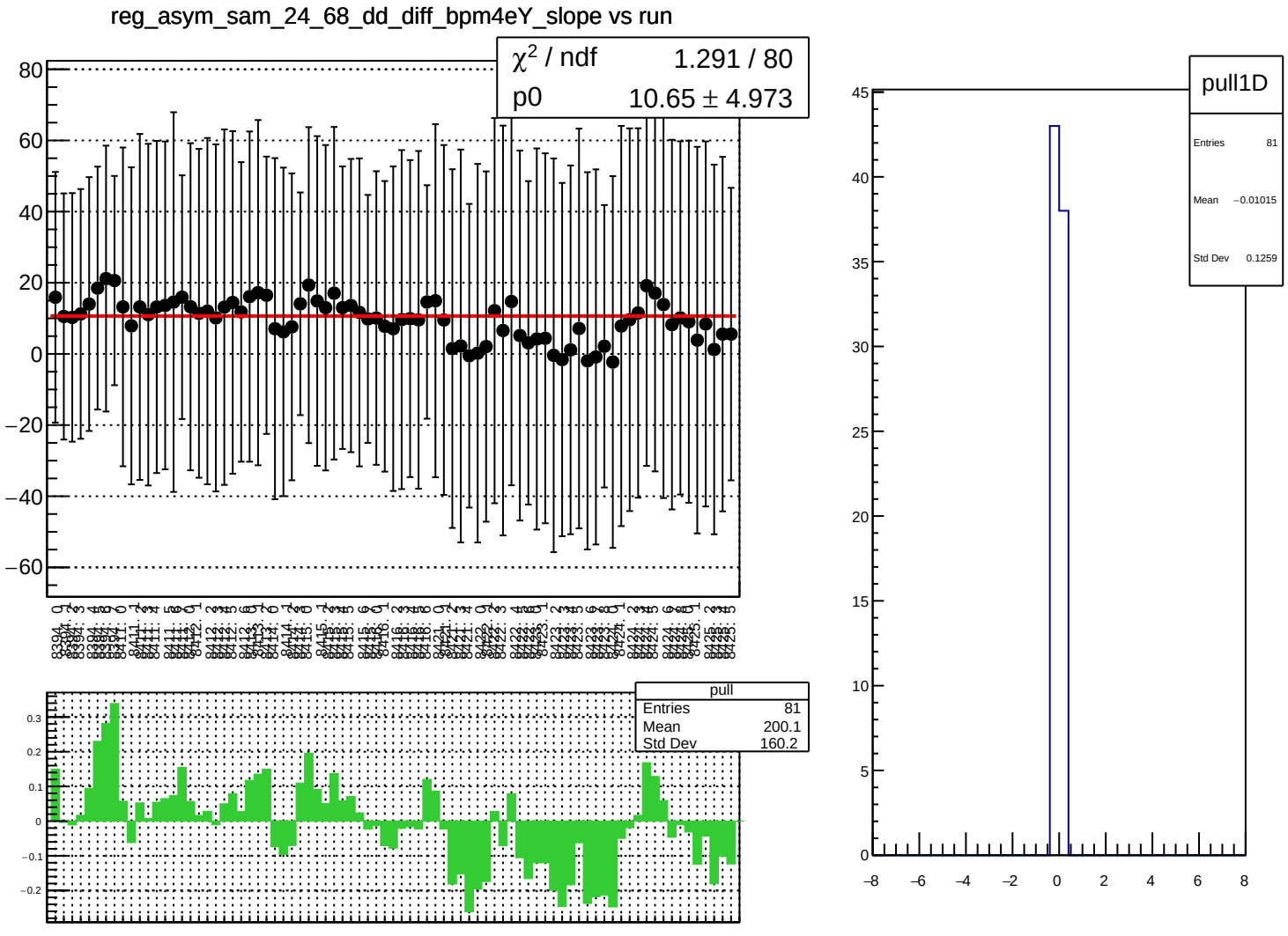

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.27 / 80
p0 −1.059 ± 0.1084
pull
Entries 81
Mean 1841
Std Dev 1785
pull1D
Entries 81
Mean −0.000302
Std Dev 0.1252

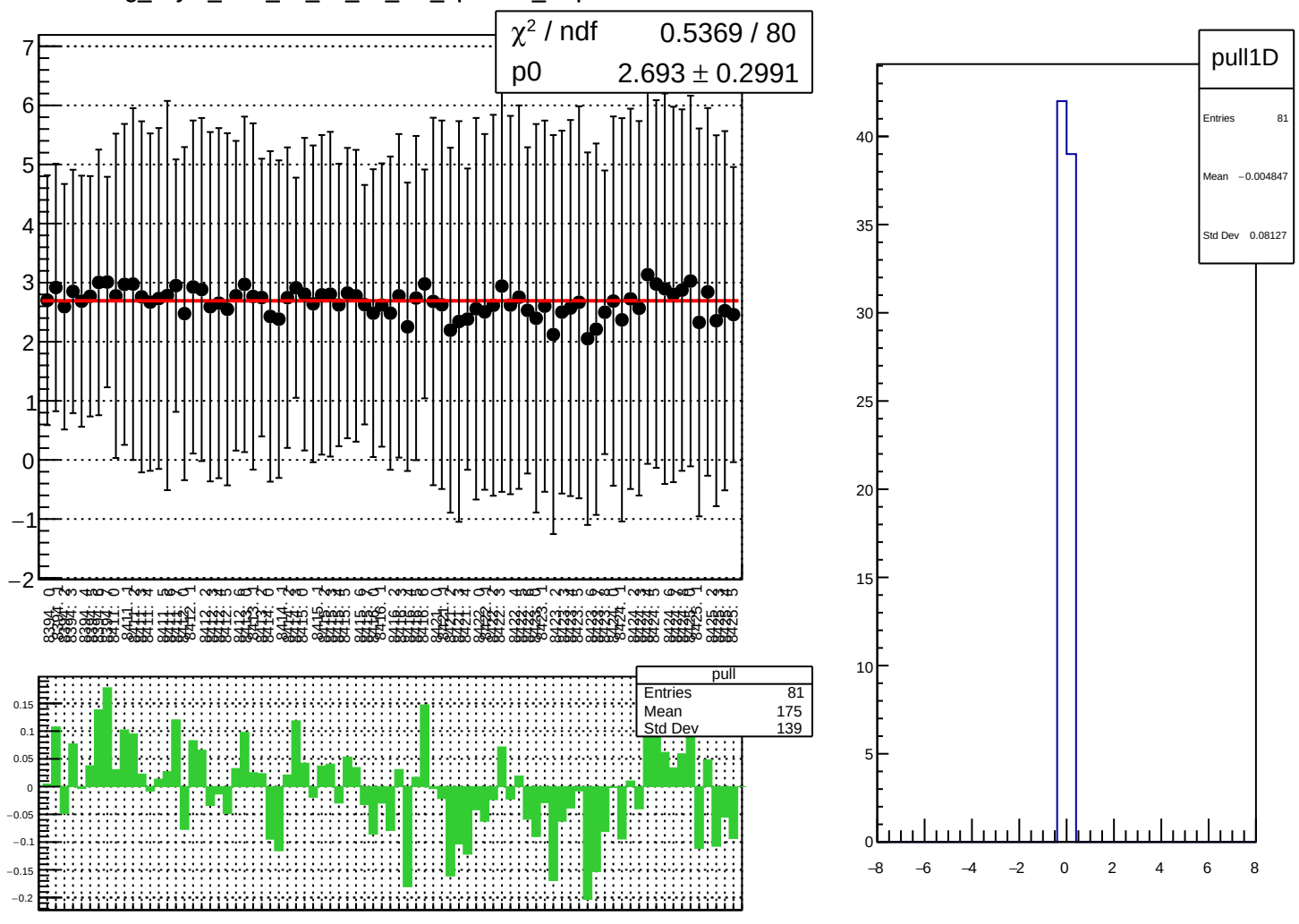

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.8509 / 80
p0 −20.75 ± 2.554
pull
Entries 81
Mean 411.9
Std Dev 371.4

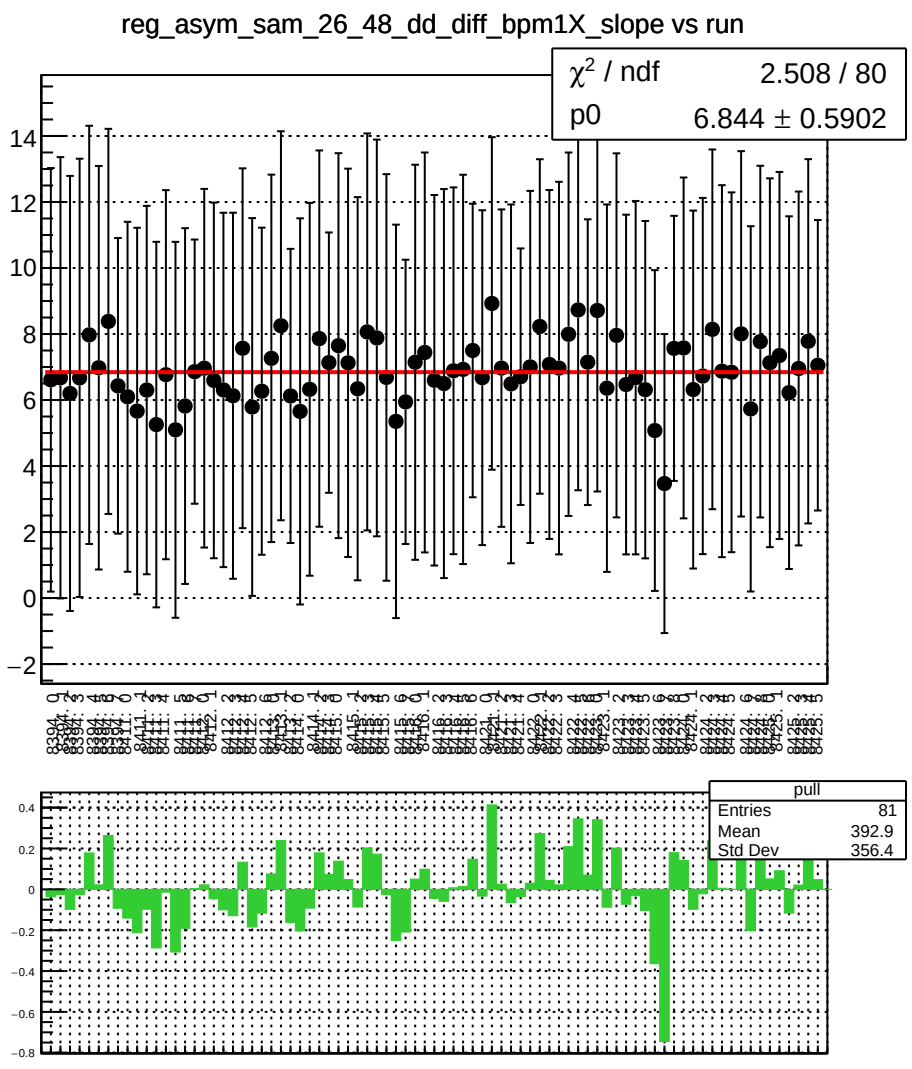

pull1D
Entries 81
Mean 0.003599
Std Dev 0.1024

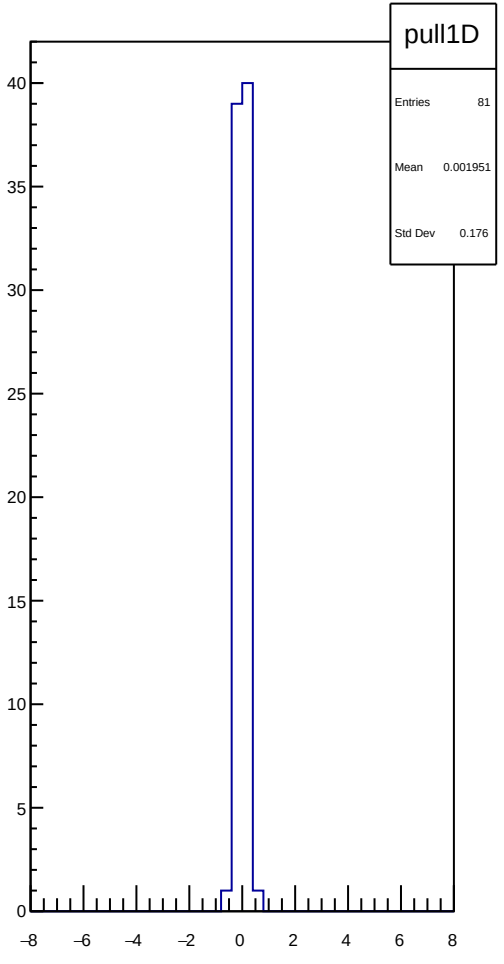

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.185 / 80
p0 −27.87 ± 4.744
pull
Entries 81
Mean 208.8
Std Dev 169.4
pull1D
Entries 81
Mean 0.009381
Std Dev 0.1206

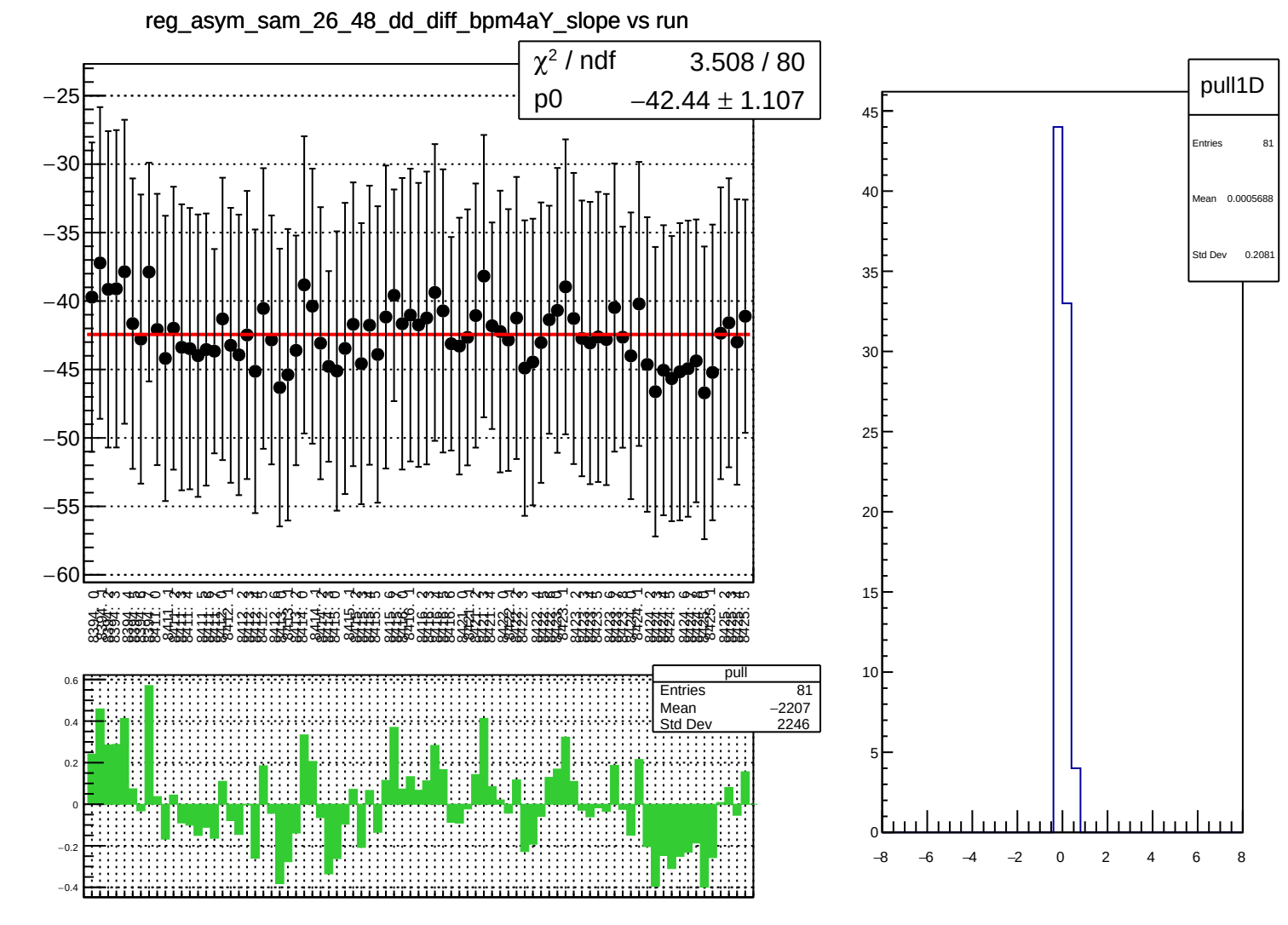

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5846 / 80
p0 −87.38 ± 2.832
pull
Entries 81
Mean 383
Std Dev 343.4
pull1D
Entries 81
Mean −0.002483
Std Dev 0.08492

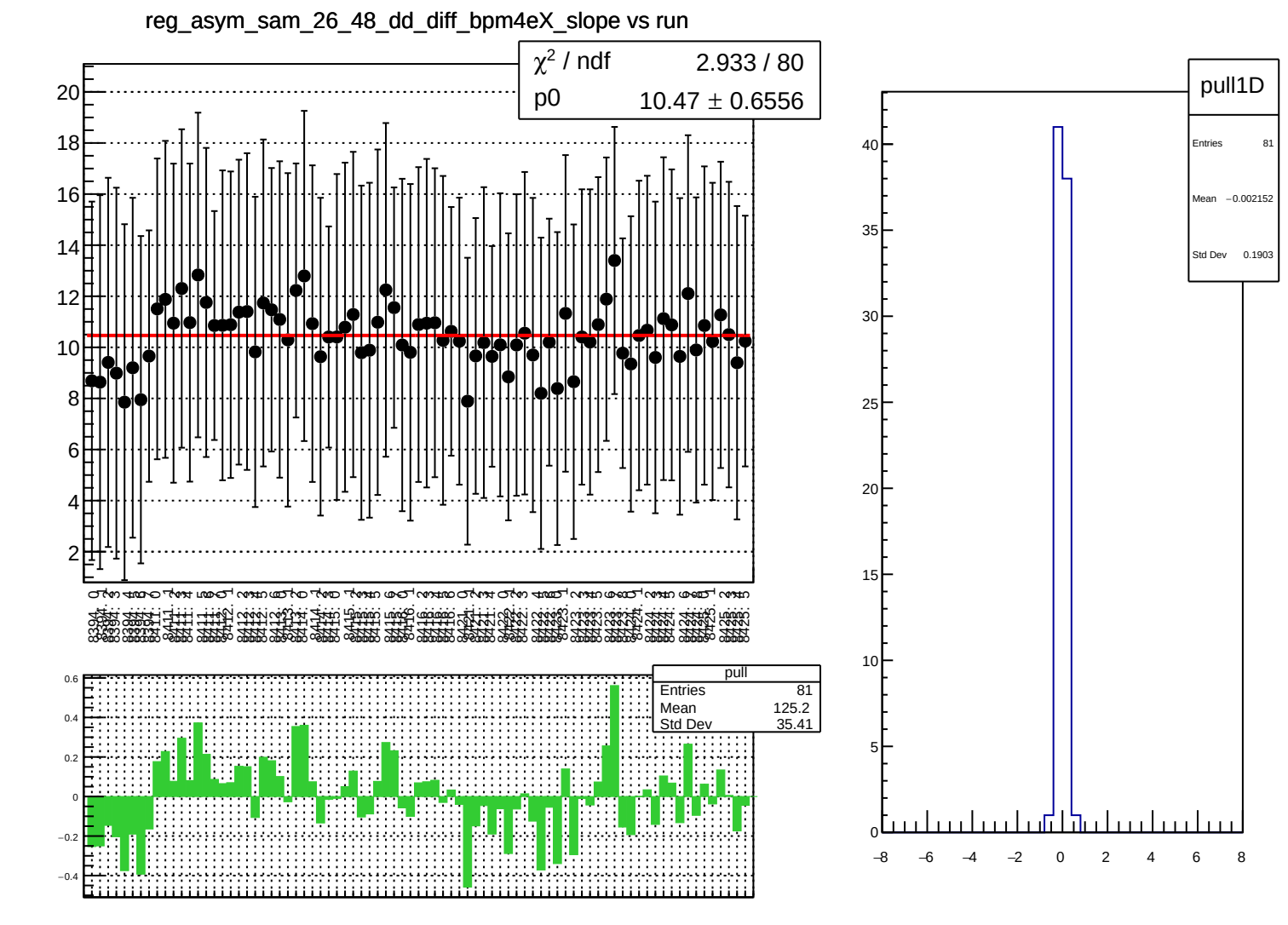

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.291 / 80
p0 10.65 ± 4.973
pull
Entries 81
Mean 200.1
Std Dev 160.2
pull1D
Entries 81
Mean −0.01015
Std Dev 0.1259

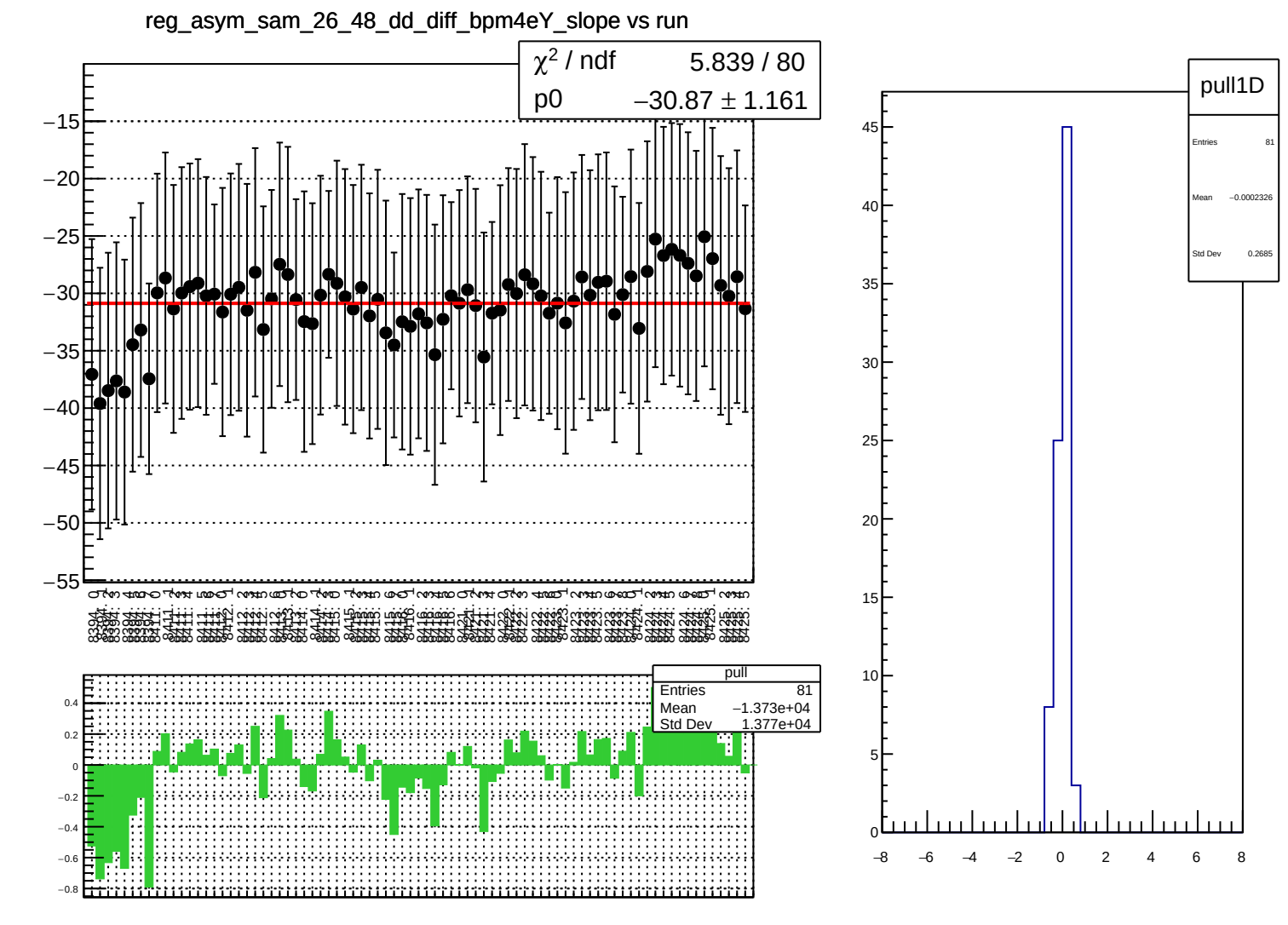

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.5369 / 80
p0 2.693 ± 0.2991
pull
Entries 81
Mean 175
Std Dev 139
pull1D
Entries 81
Mean −0.004847
Std Dev 0.08127

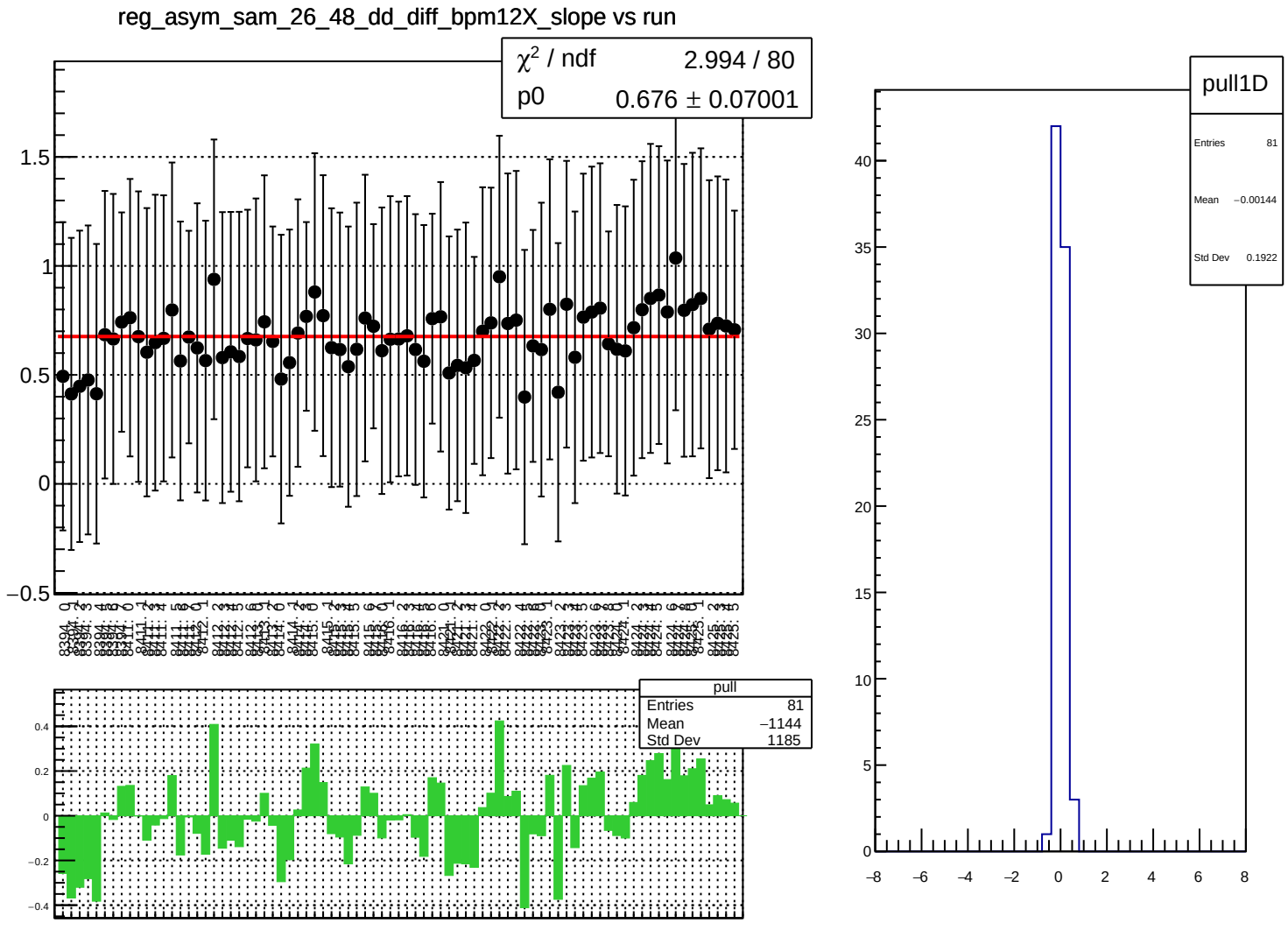

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.508 / 80
p0 6.844 ± 0.5902
pull
Entries 81
Mean 392.9
Std Dev 356.4

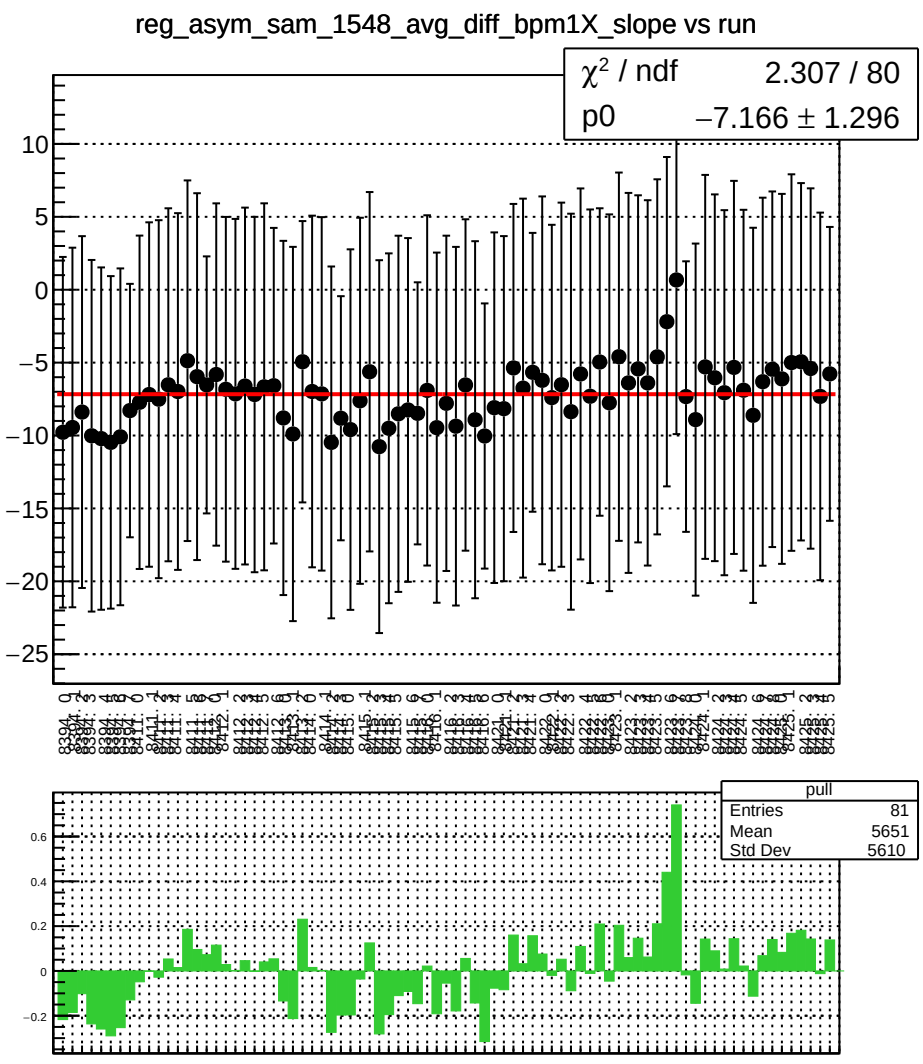

pull1D
Entries 81
Mean 0.001951
Std Dev 0.176

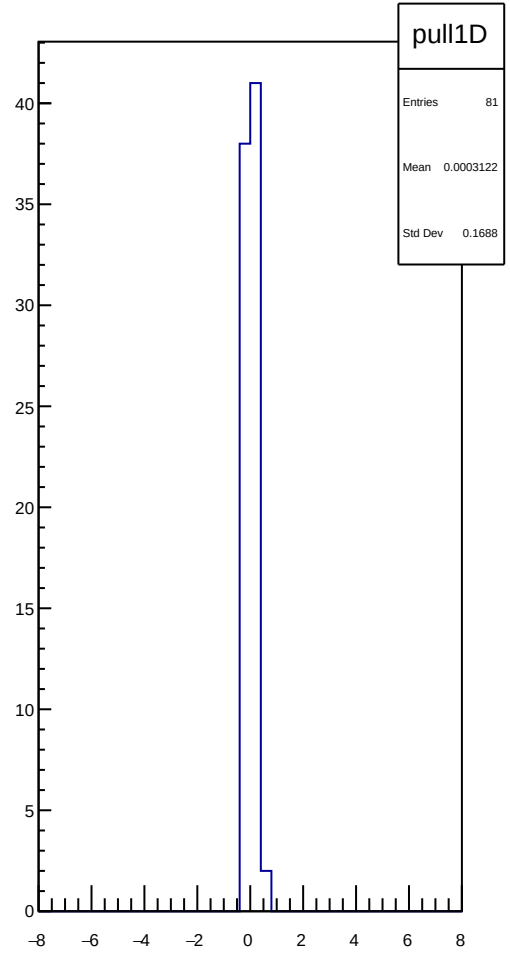

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.508 / 80
p0 −42.44 ± 1.107
pull
Entries 81
Mean −2207
Std Dev 2246
pull1D
Entries 81
Mean 0.0005688
Std Dev 0.2081

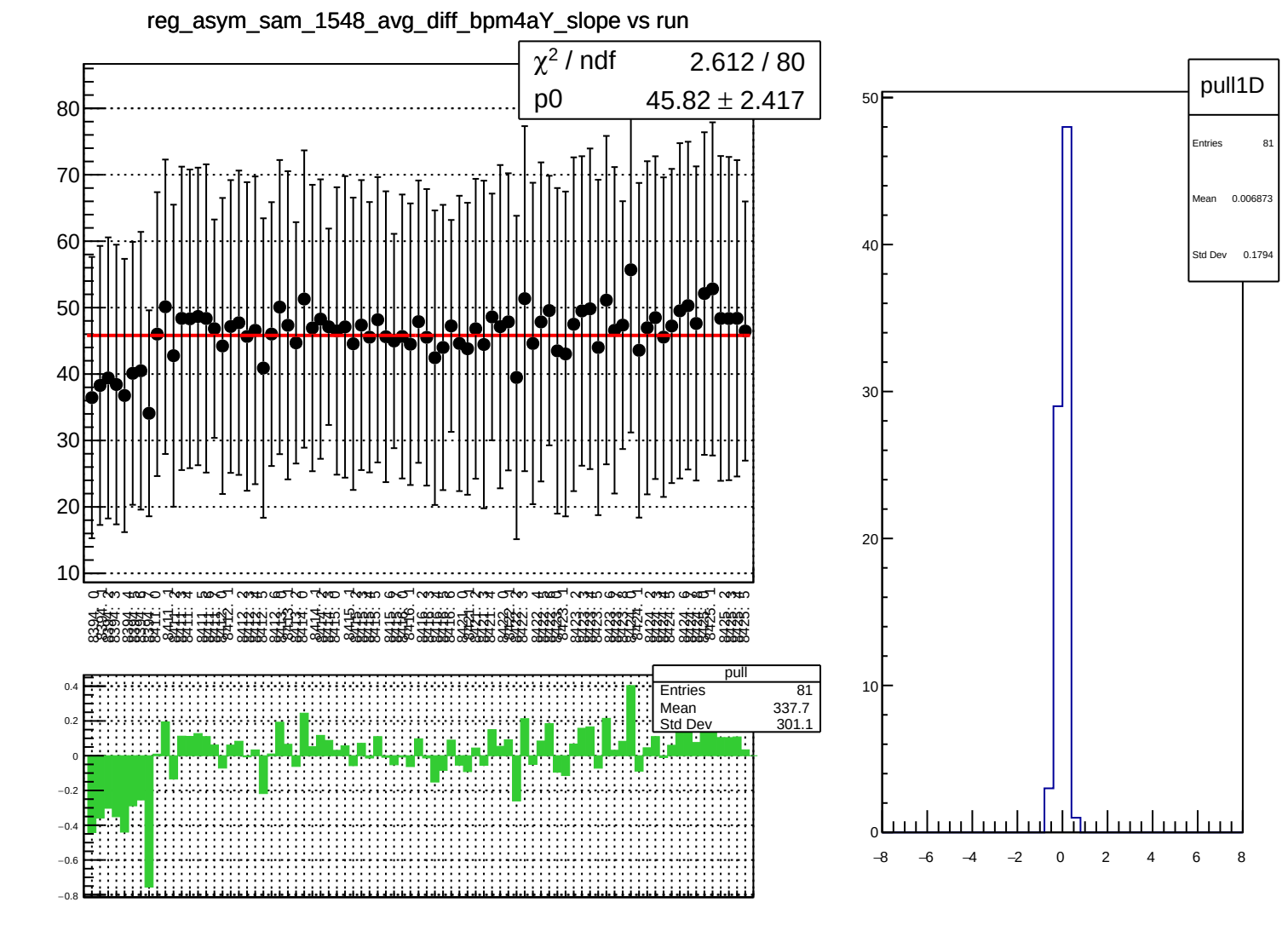

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.933 / 80
p0 10.47 ± 0.6556
pull
Entries 81
Mean 125.2
Std Dev 35.41
pull1D
Entries 81
Mean −0.002152
Std Dev 0.1903

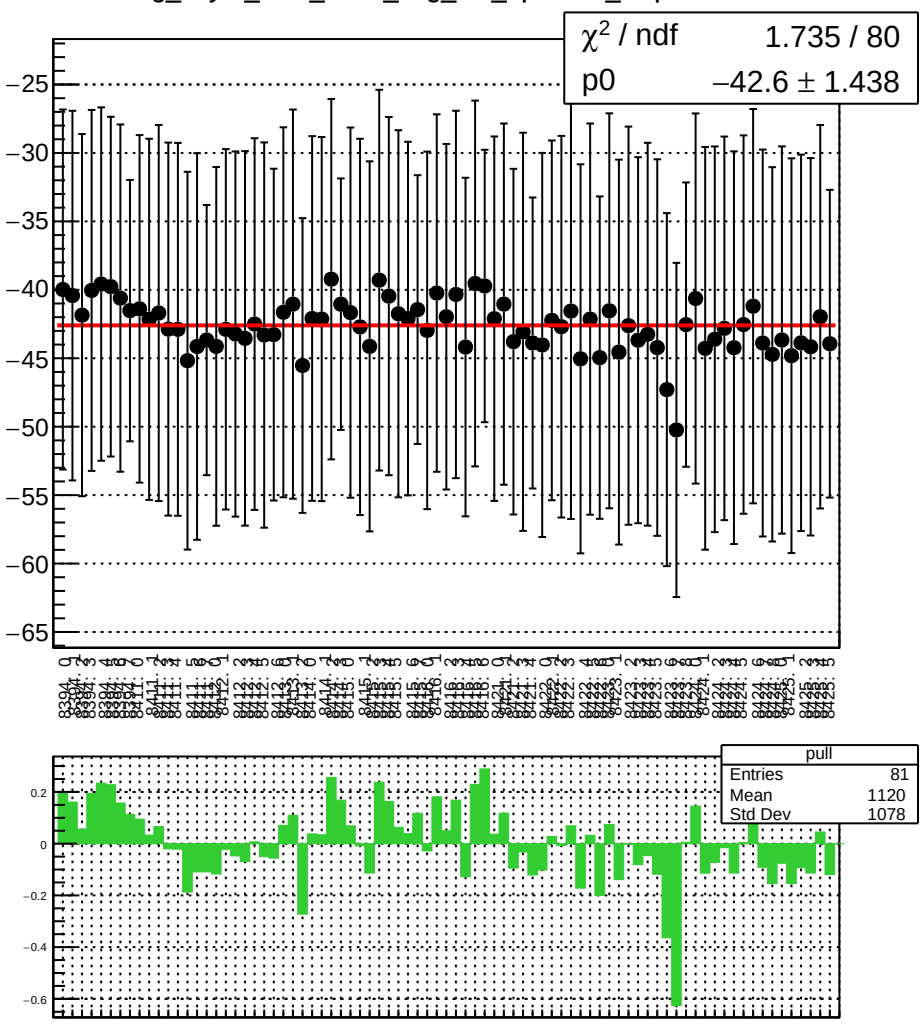

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.839 / 80
p0 −30.87 ± 1.161
pull
Entries 81
Mean −1.373e+04
Std Dev 1.377e+04
pull1D
Entries 81
Mean −0.0002326
Std Dev 0.2685

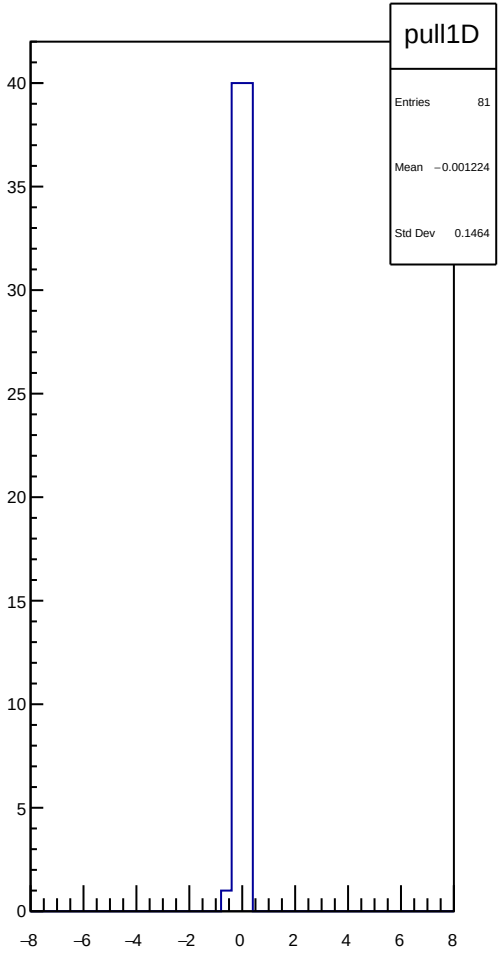

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.994 / 80
p0 0.676 ± 0.07001
pull
Entries 81
Mean −1144
Std Dev 1185
pull1D
Entries 81
Mean −0.00144
Std Dev 0.1922

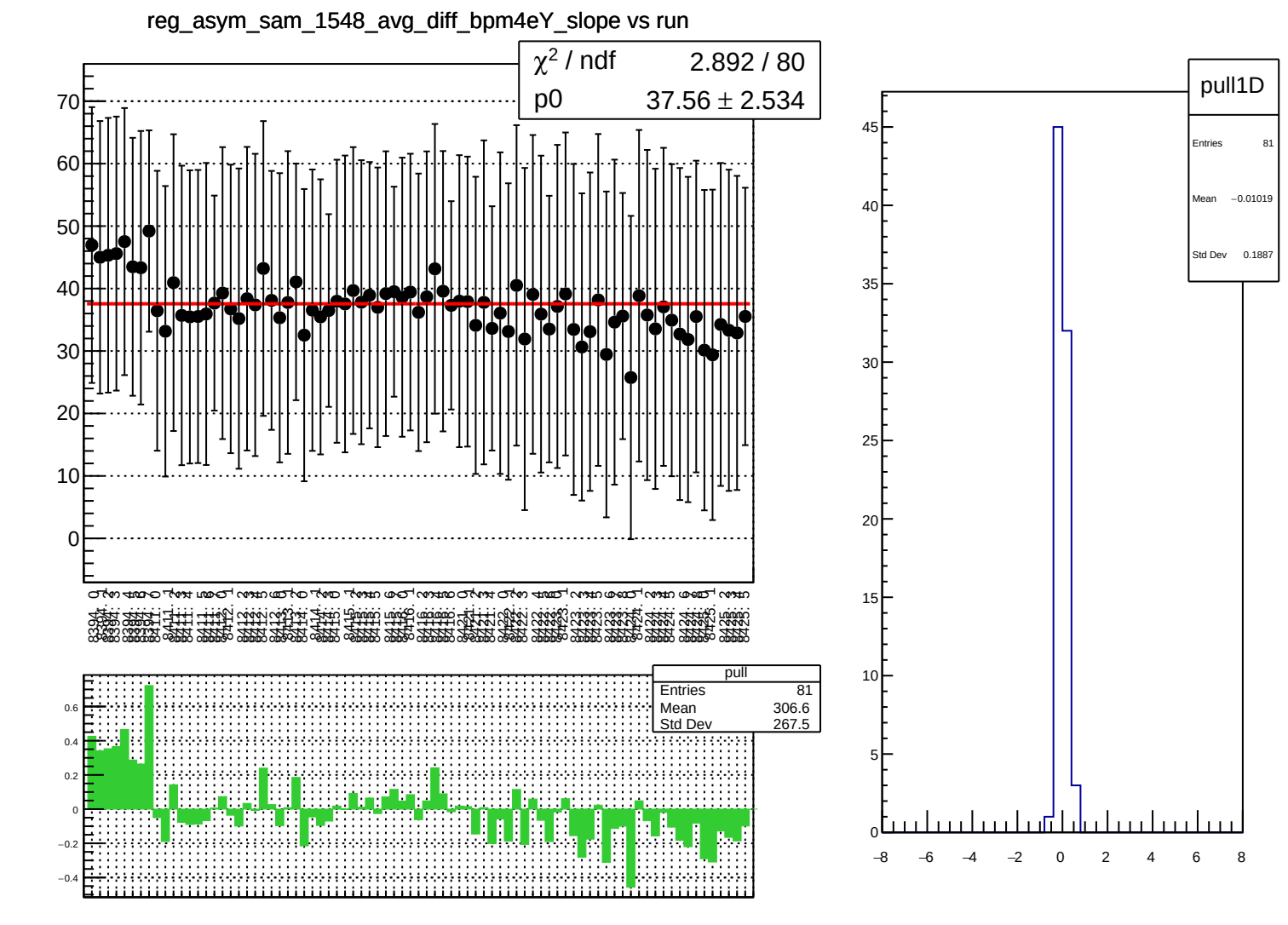

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 2.307 / 80
p0 −7.166 ± 1.296
pull
Entries 81
Mean 5651
Std Dev 5610

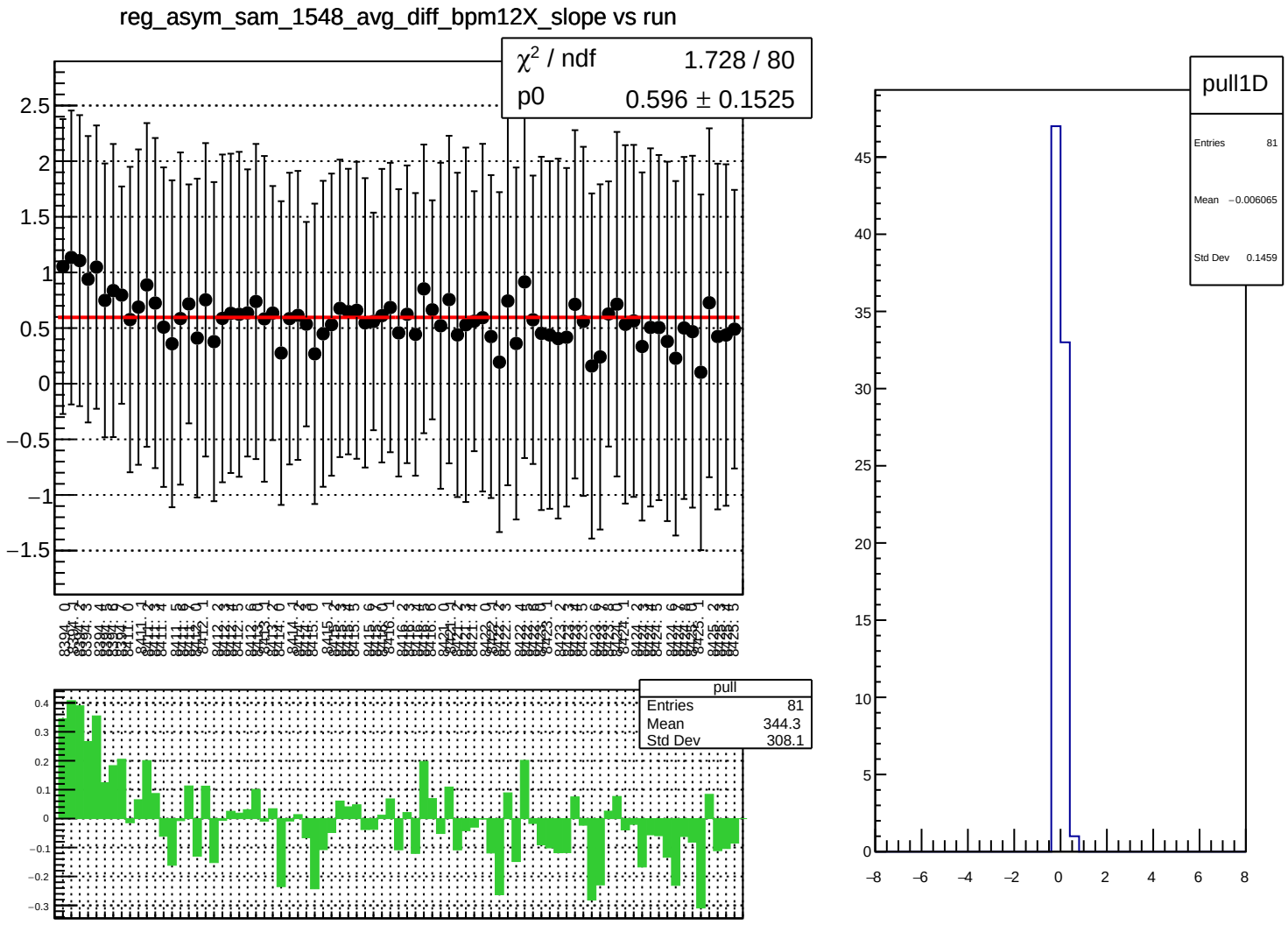

pull1D
Entries 81
Mean 0.0003122
Std Dev 0.1688

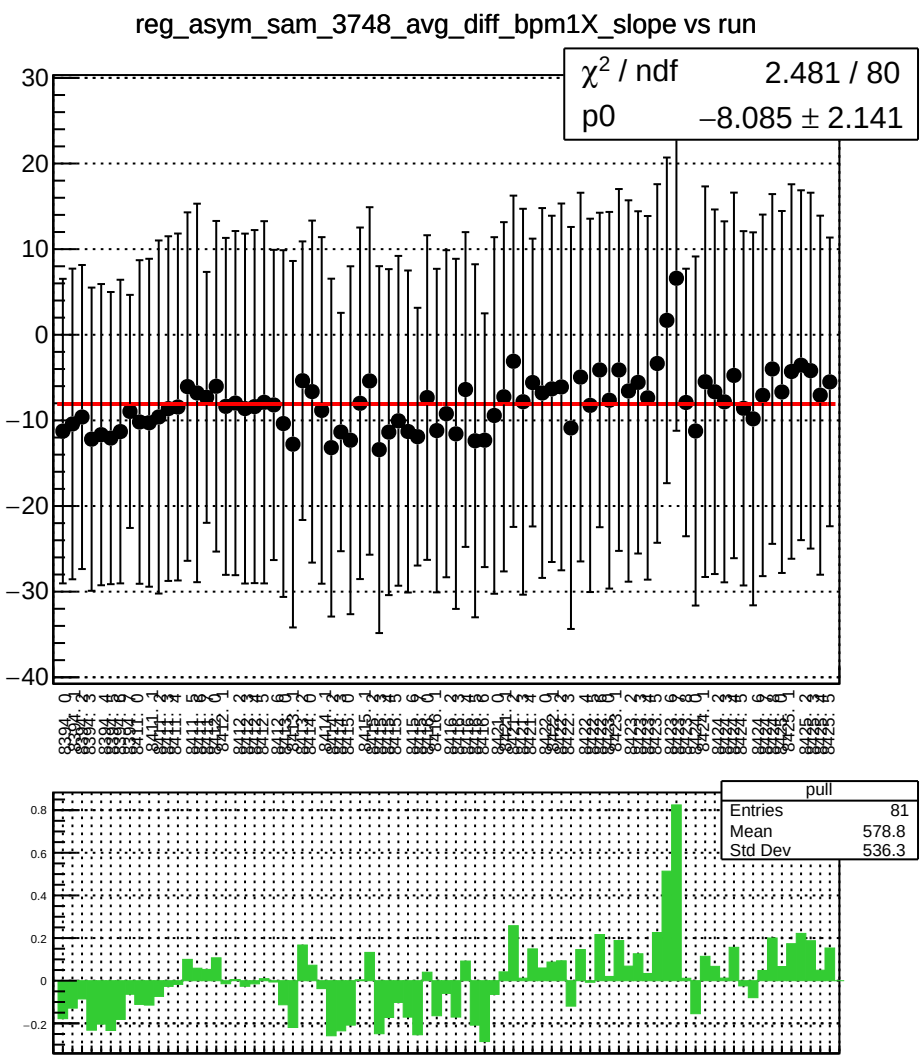

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.612 / 80
p0 45.82 ± 2.417
pull
Entries 81
Mean 337.7
Std Dev 301.1
pull1D
Entries 81
Mean 0.006873
Std Dev 0.1794

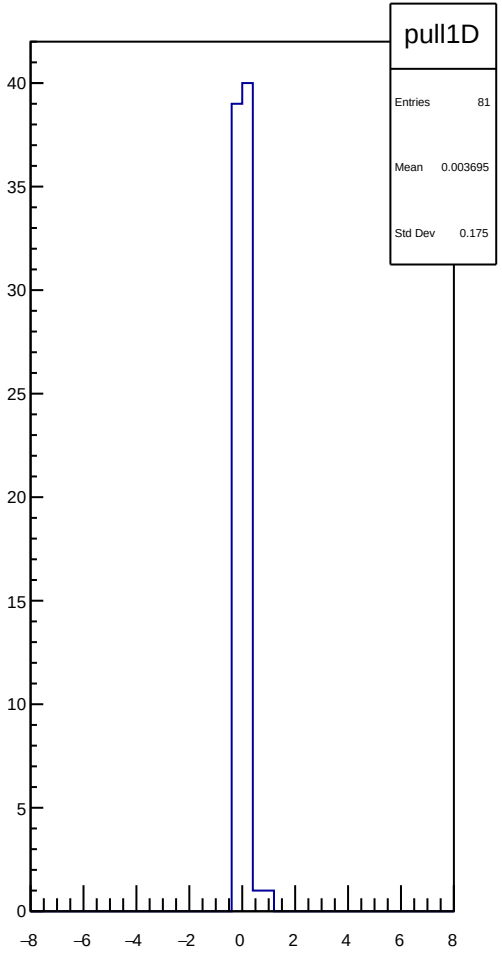

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.735 / 80
p0 −42.6 ± 1.438
pull
Entries 81
Mean 1120
Std Dev 1078

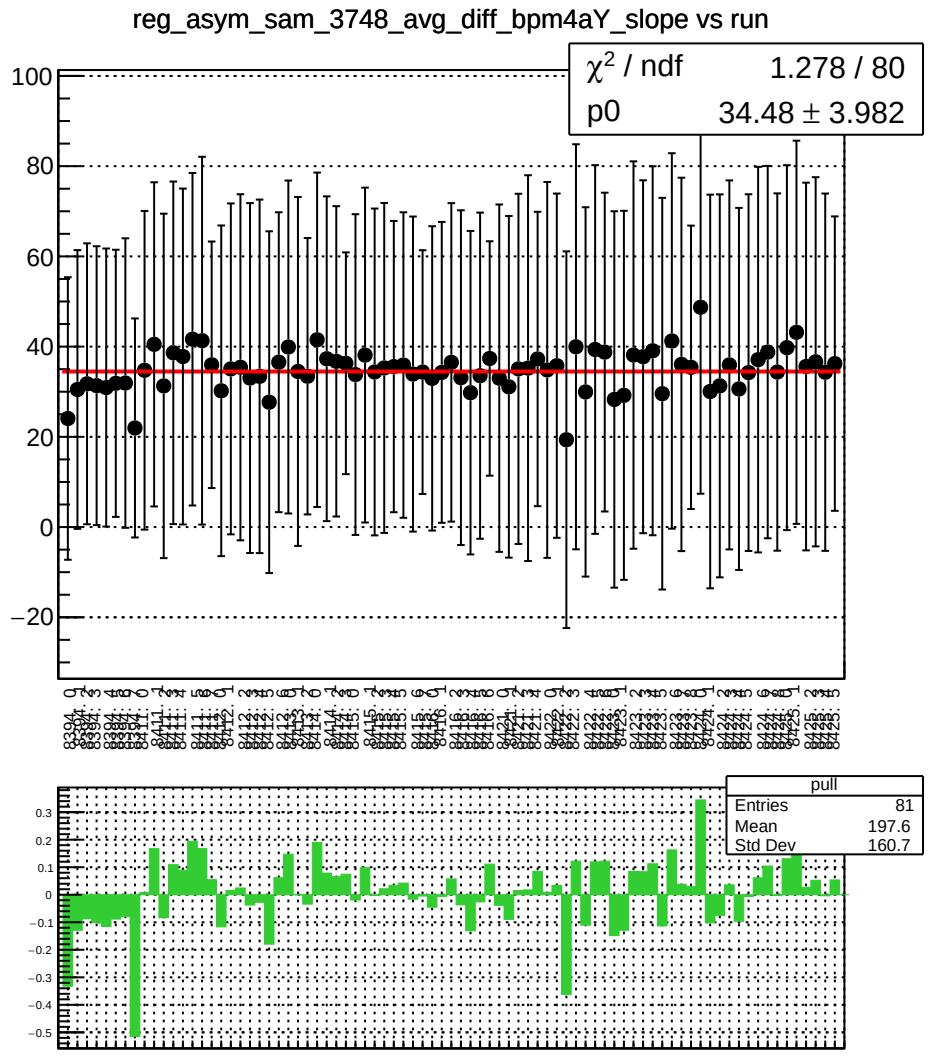

pull1D
Entries 81
Mean −0.001224
Std Dev 0.1464

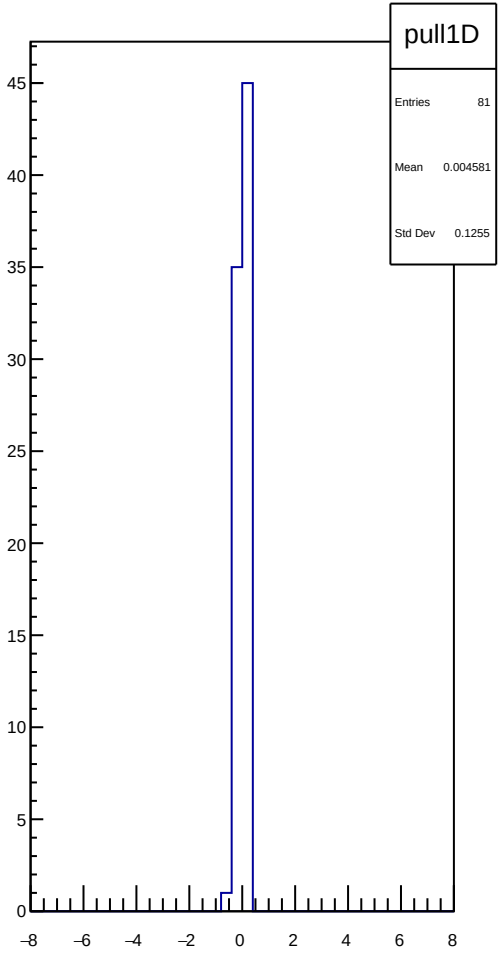

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.892 / 80
p0 37.56 ± 2.534
pull
Entries 81
Mean 306.6
Std Dev 267.5
pull1D
Entries 81
Mean −0.01019
Std Dev 0.1887

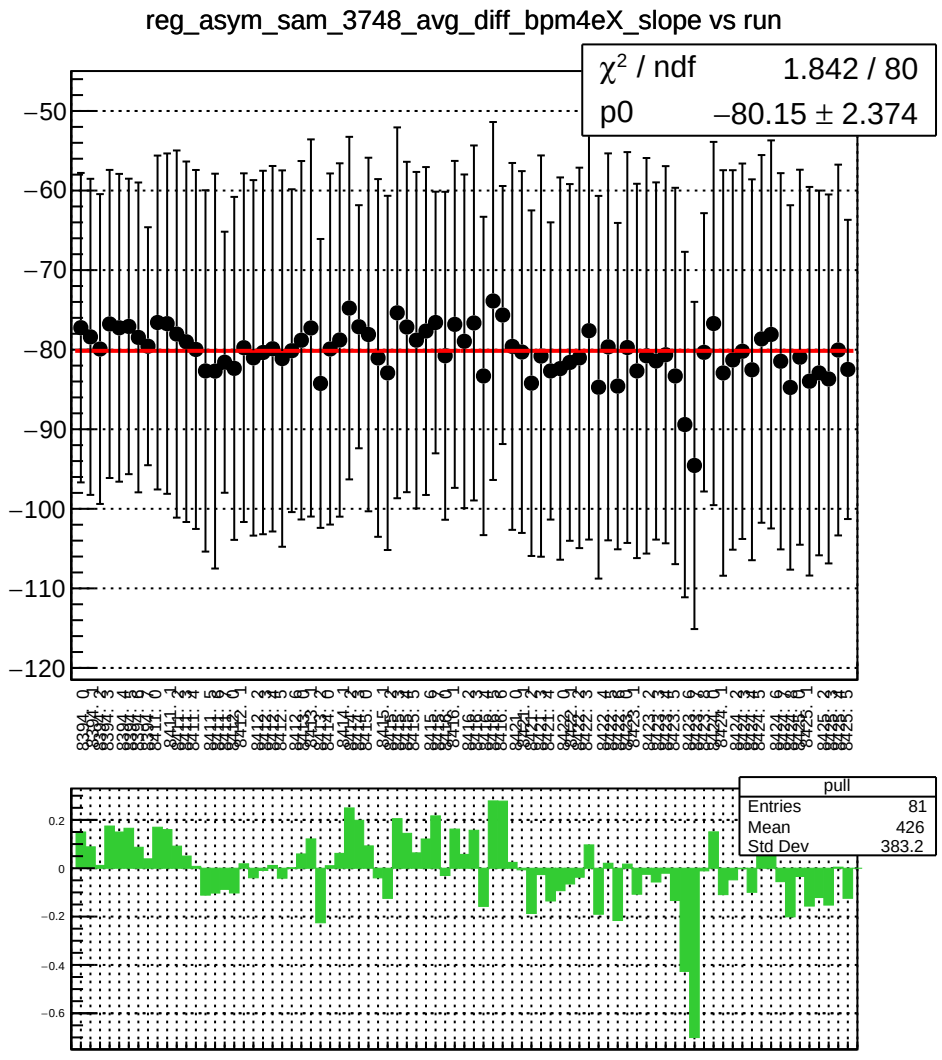

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 1.728 / 80
p0 0.596 ± 0.1525
pull
Entries 81
Mean 344.3
Std Dev 308.1
pull1D
Entries 81
Mean −0.006065
Std Dev 0.1459

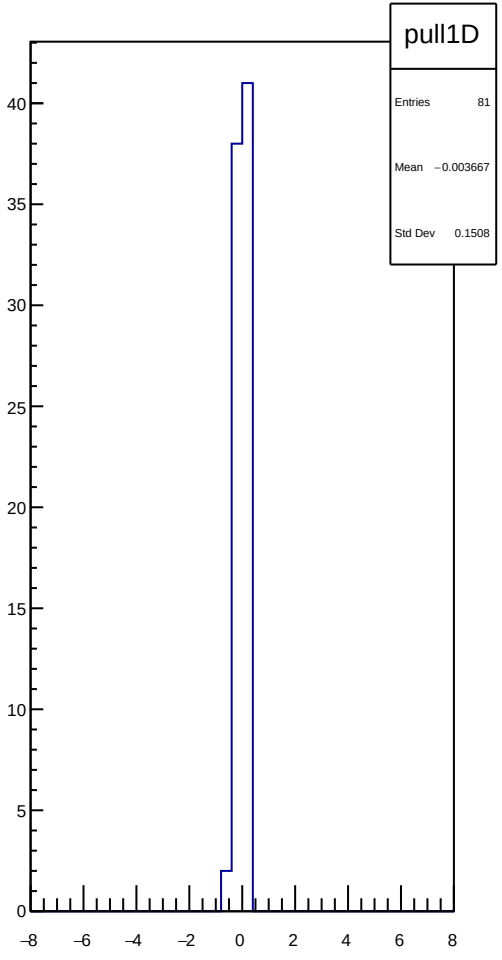

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 2.481 / 80
p0 −8.085 ± 2.141
pull
Entries 81
Mean 578.8
Std Dev 536.3

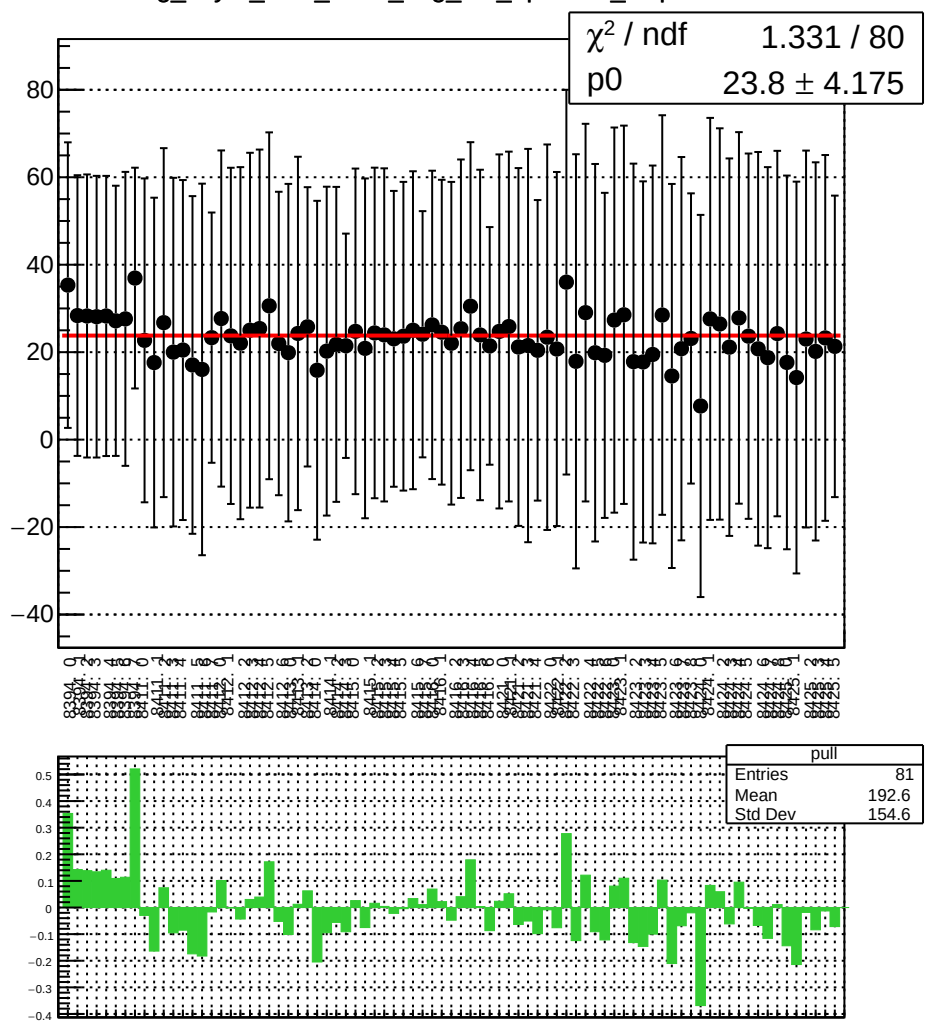

pull1D
Entries 81
Mean 0.003695
Std Dev 0.175

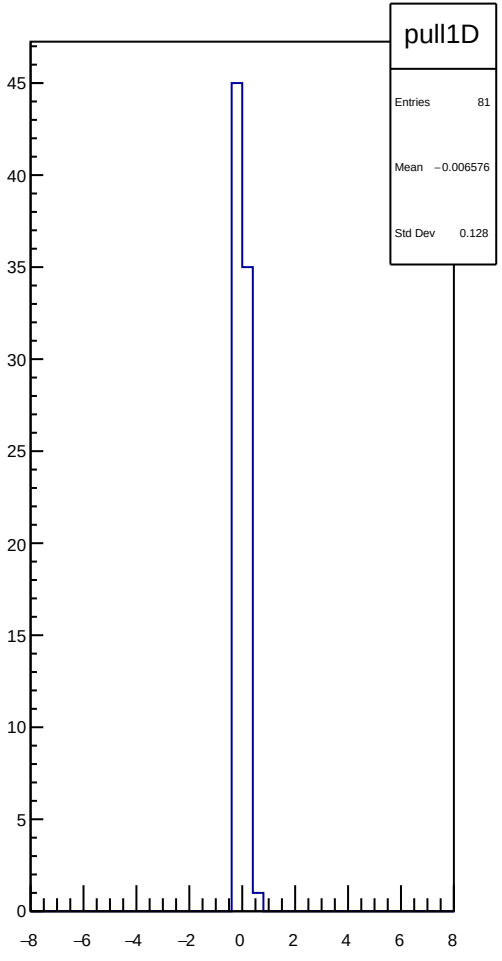

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.278 / 80
p0 34.48 ± 3.982
pull
Entries 81
Mean 197.6
Std Dev 160.7

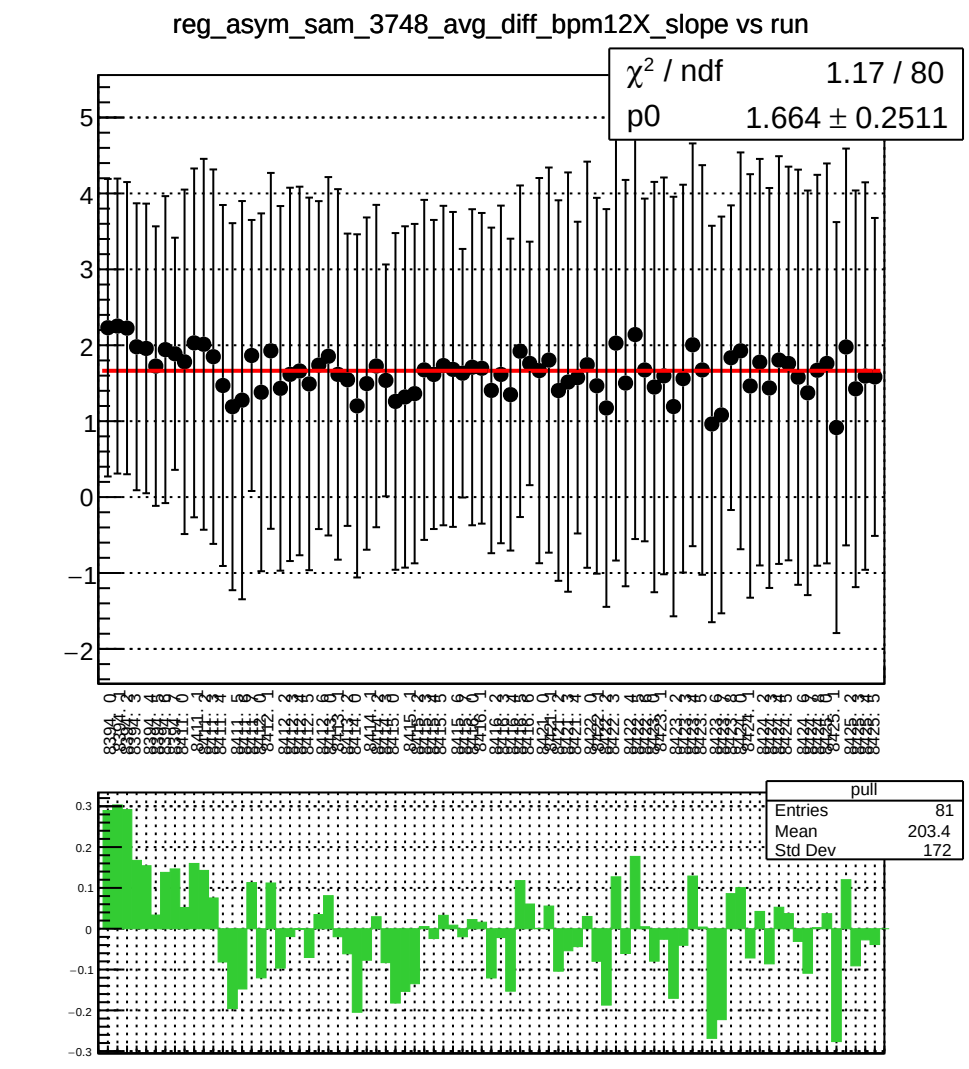

pull1D
Entries 81
Mean 0.004581
Std Dev 0.1255

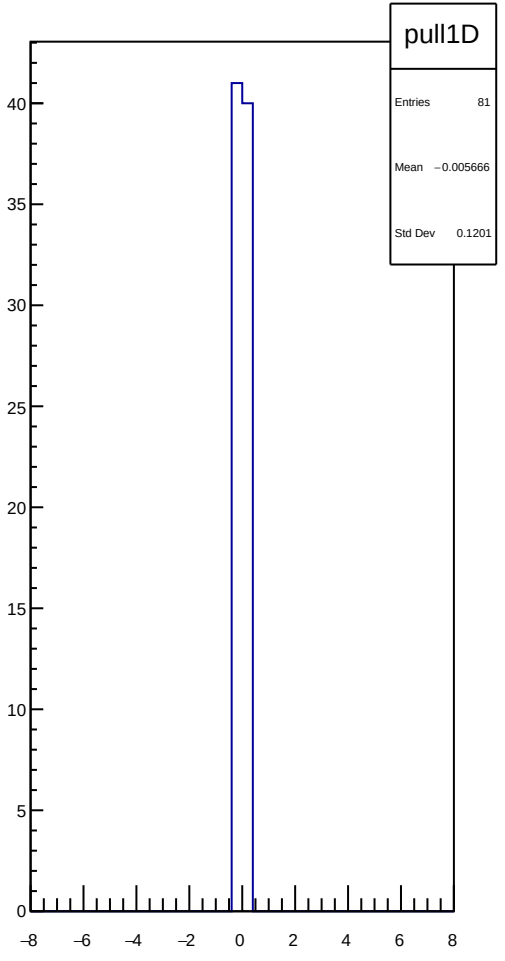

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.842 / 80
p0 −80.15 ± 2.374
pull
Entries 81
Mean 426
Std Dev 383.2

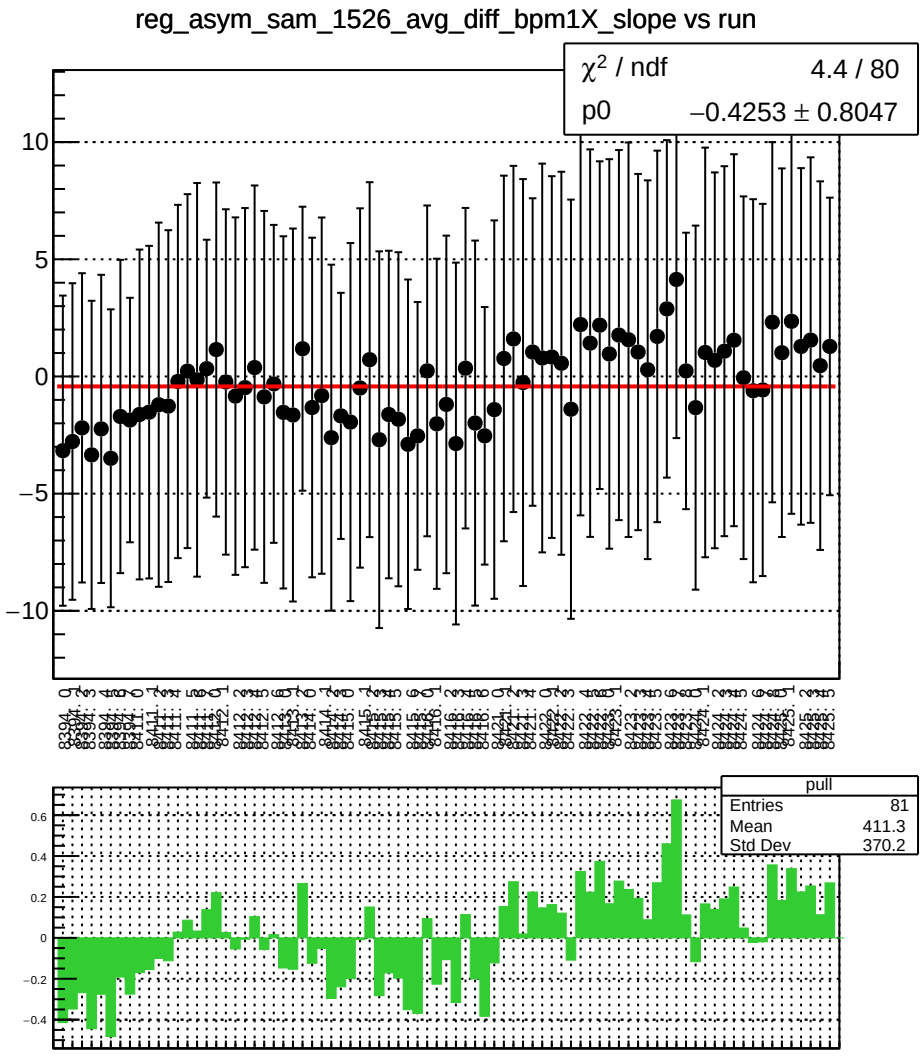

pull1D
Entries 81
Mean −0.003667
Std Dev 0.1508

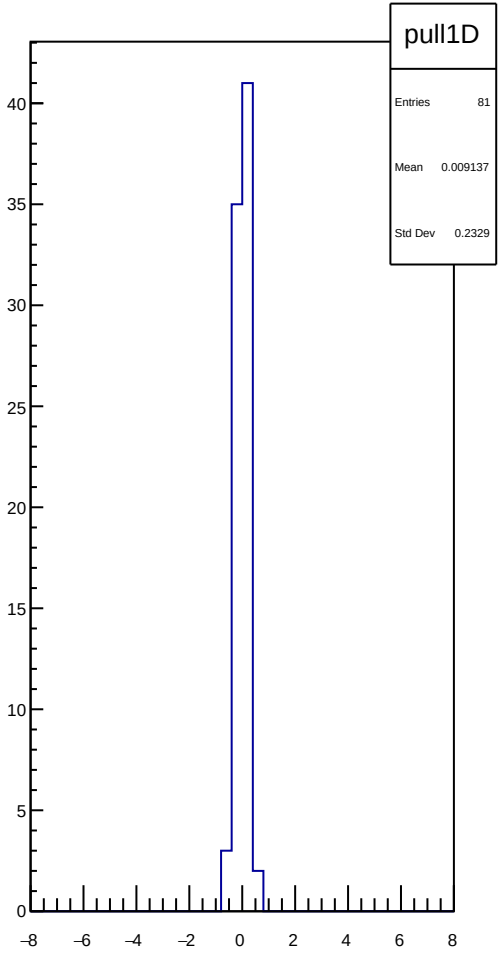

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.331 / 80
p0 23.8 ± 4.175
pull
Entries 81
Mean 192.6
Std Dev 154.6

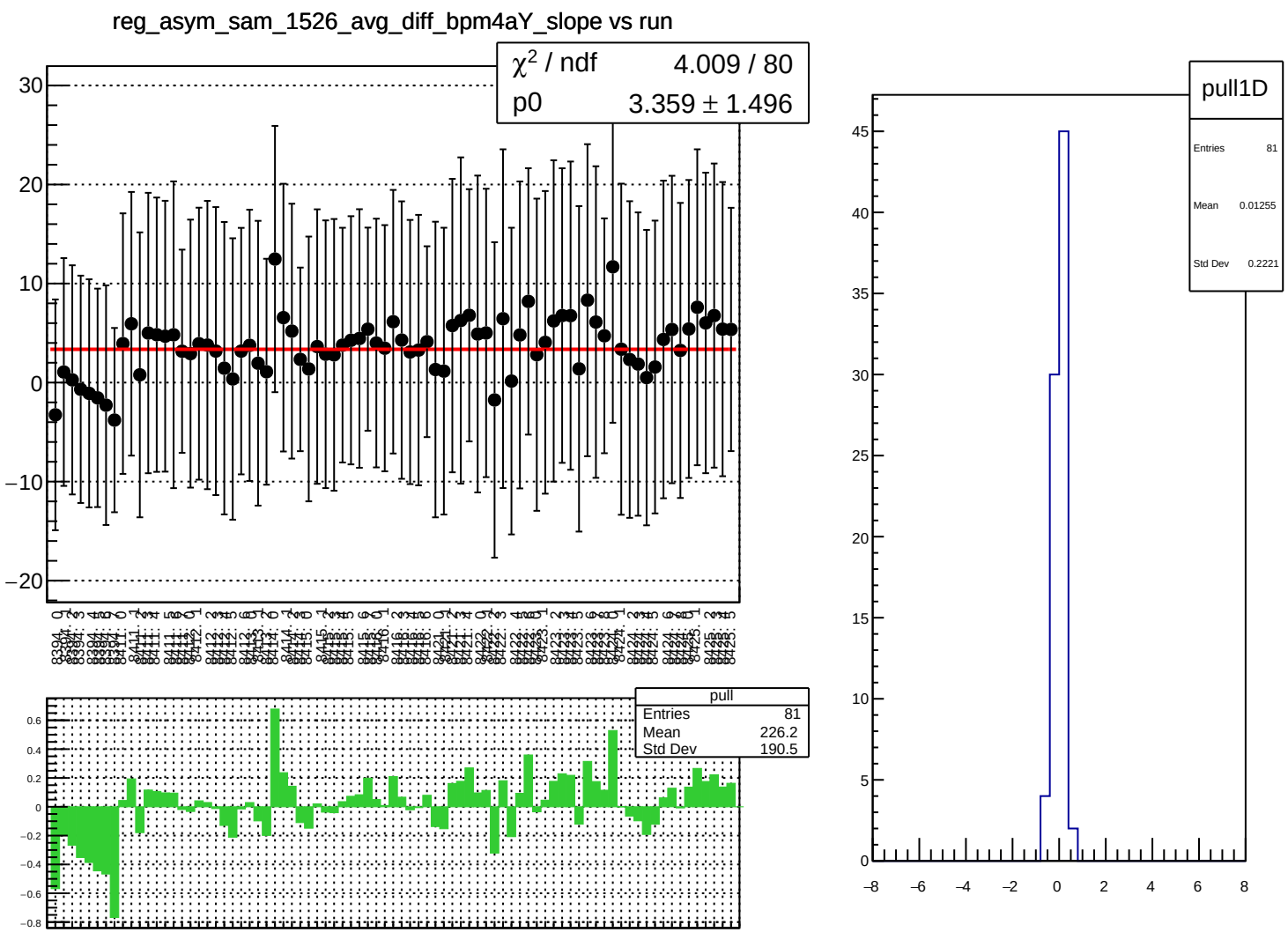

pull1D
Entries 81
Mean −0.006576
Std Dev 0.128

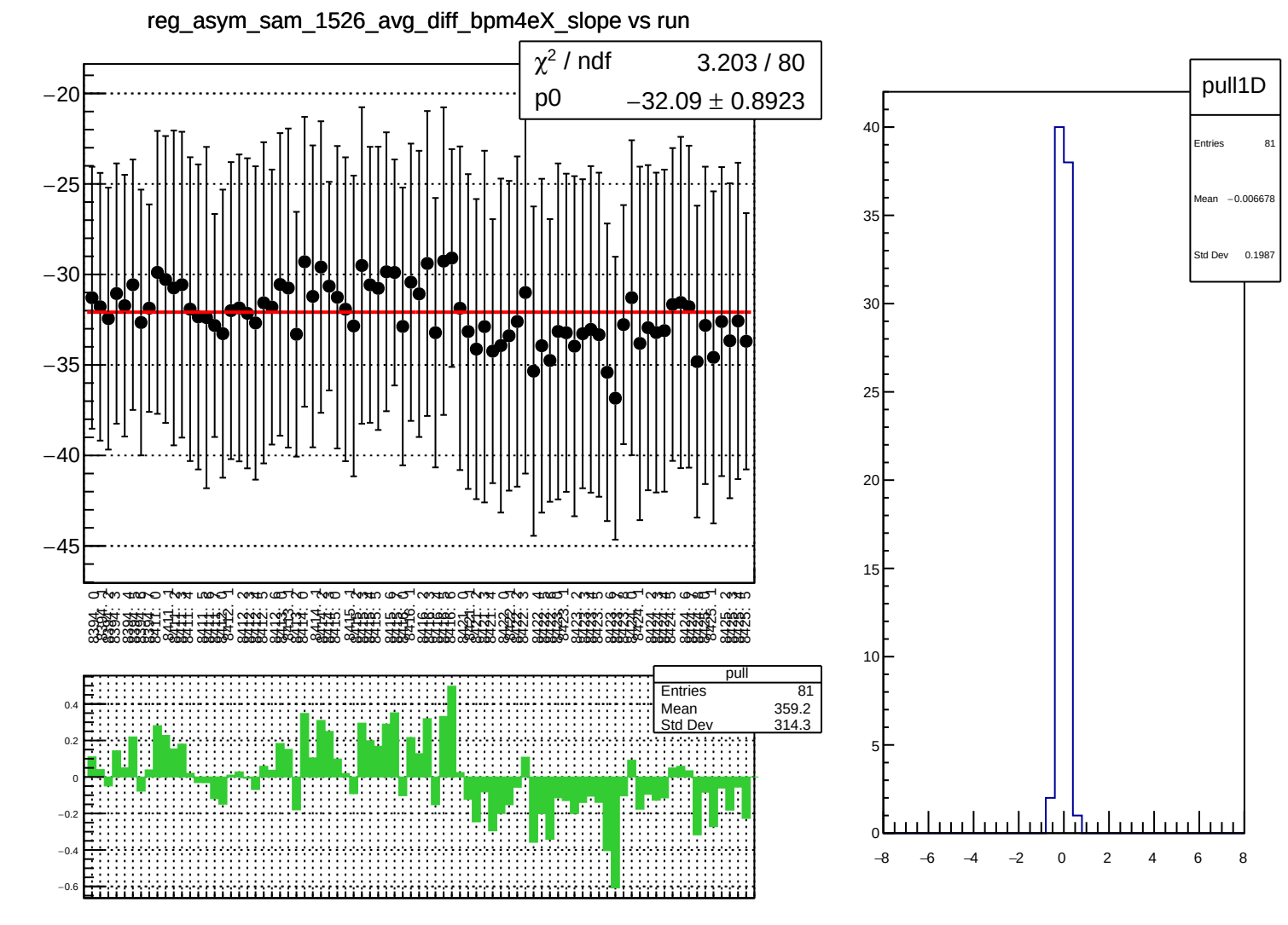

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 1.17 / 80
p0 1.664 ± 0.2511
pull
Entries 81
Mean 203.4
Std Dev 172

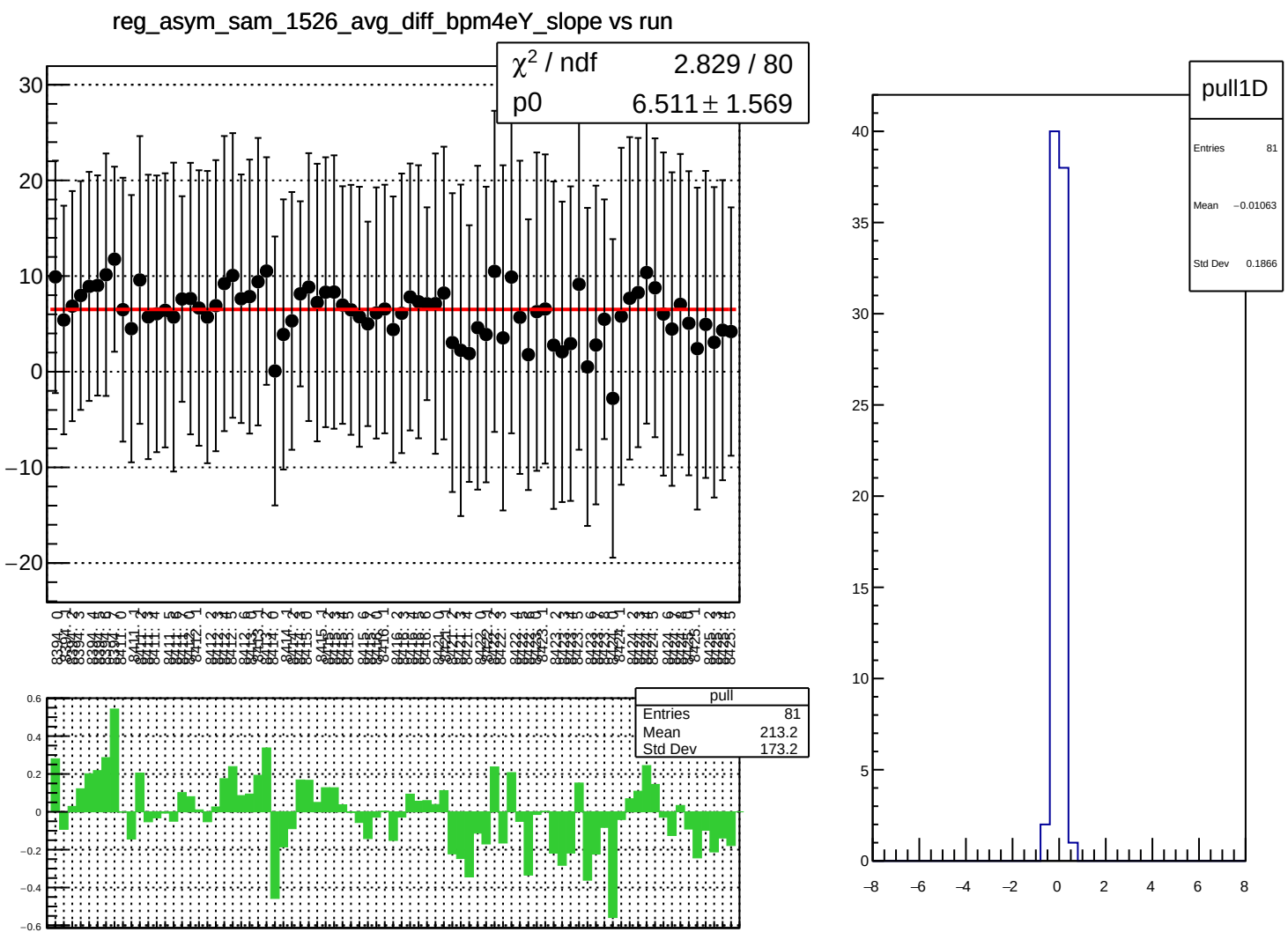

pull1D
Entries 81
Mean −0.005666
Std Dev 0.1201

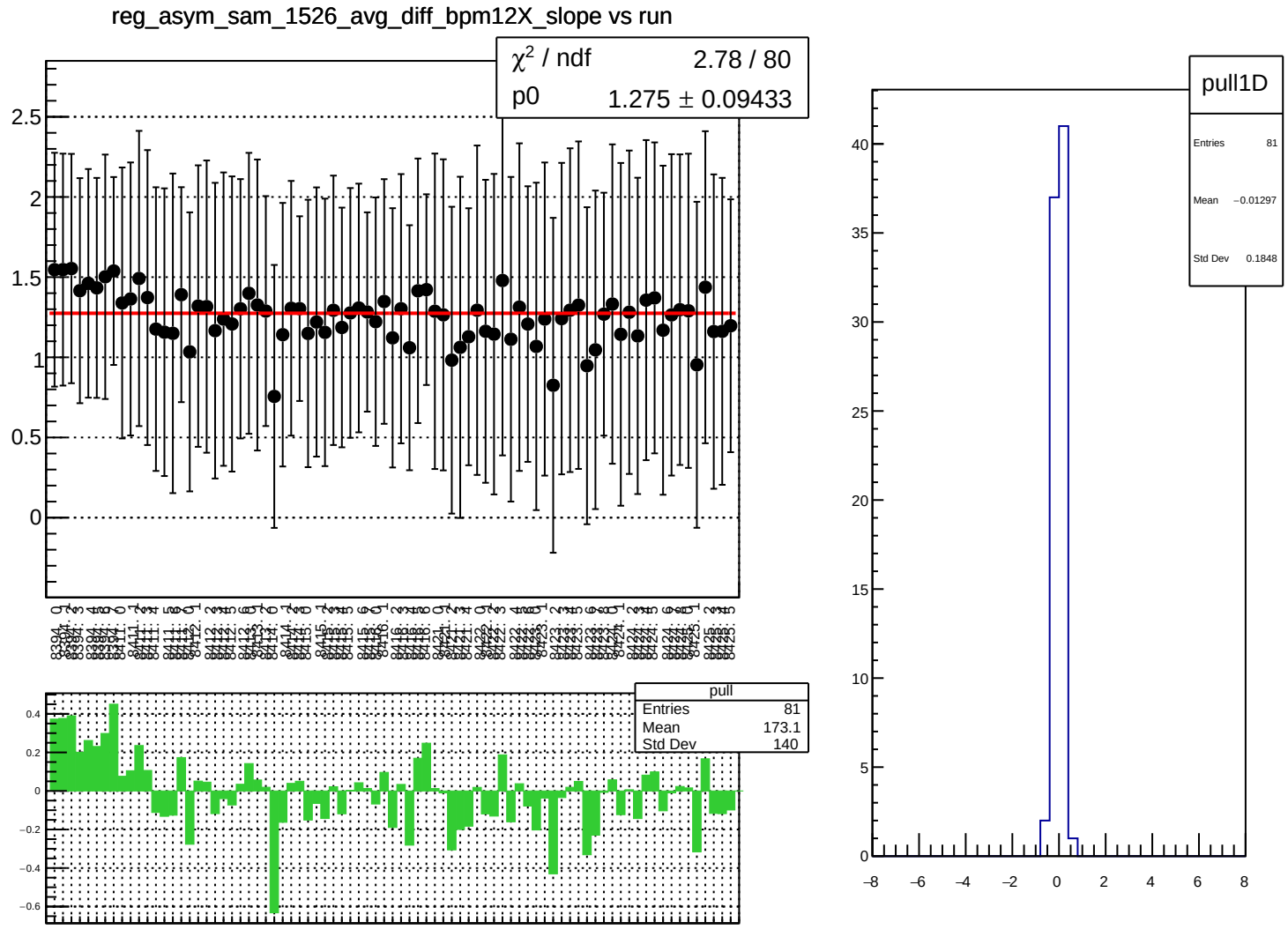

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 4.4 / 80
p0 −0.4253 ± 0.8047
pull
Entries 81
Mean 411.3
Std Dev 370.2

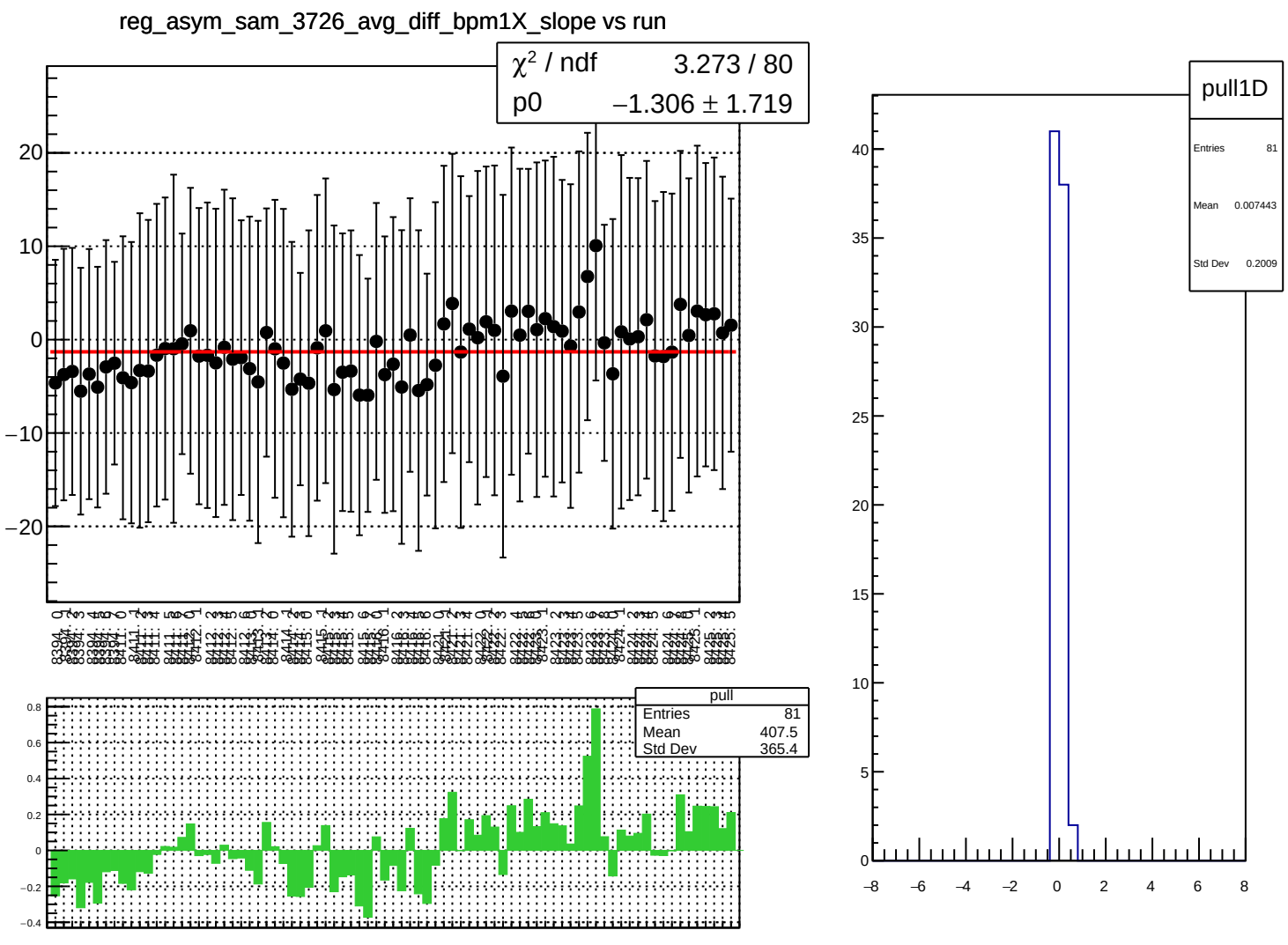

pull1D
Entries 81
Mean 0.009137
Std Dev 0.2329

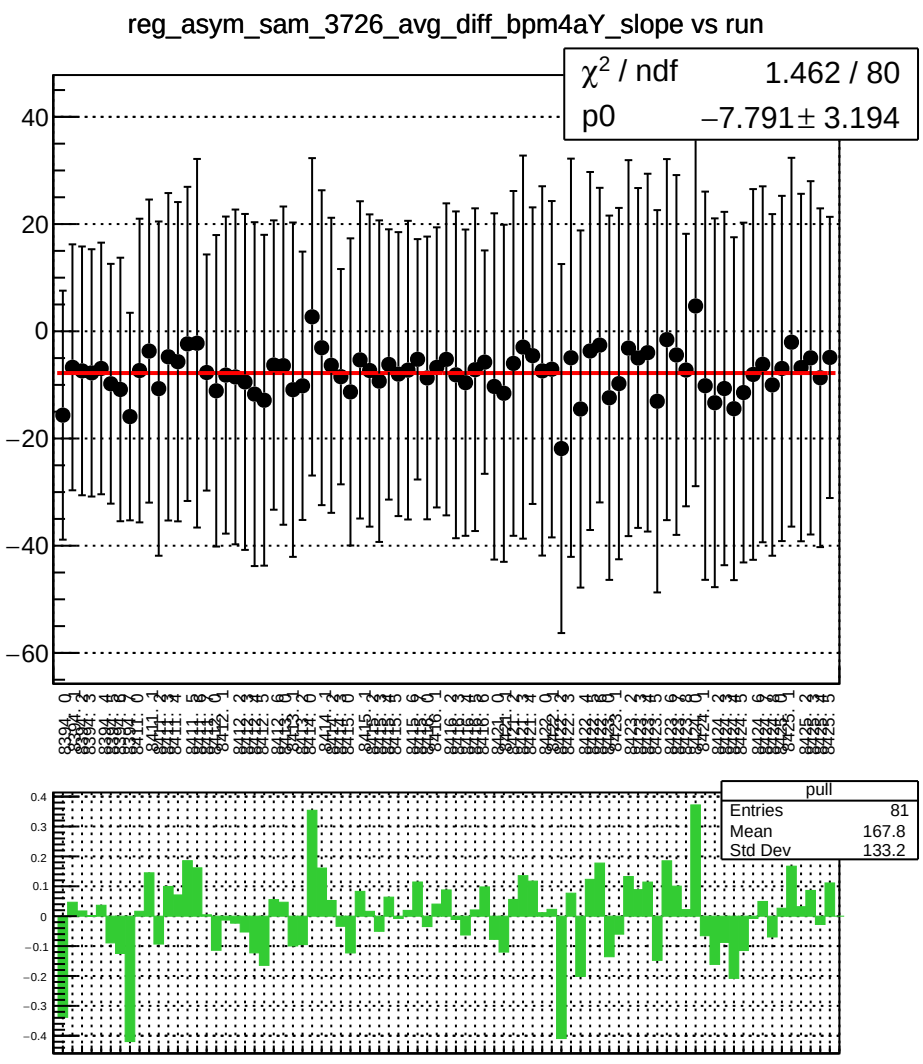

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.009 / 80
p0 3.359 ± 1.496
pull
Entries 81
Mean 226.2
Std Dev 190.5
pull1D
Entries 81
Mean 0.01255
Std Dev 0.2221

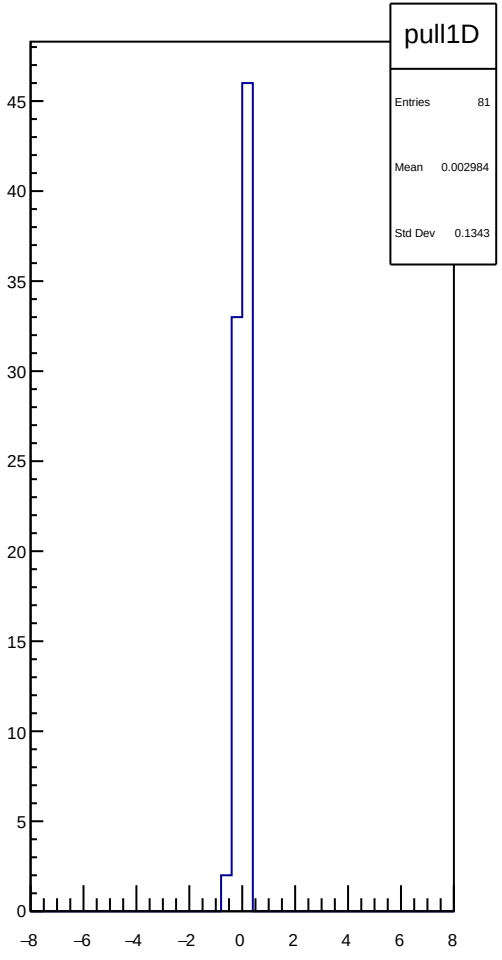

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.203 / 80
p0 −32.09 ± 0.8923
pull
Entries 81
Mean 359.2
Std Dev 314.3
pull1D
Entries 81
Mean −0.006678
Std Dev 0.1987

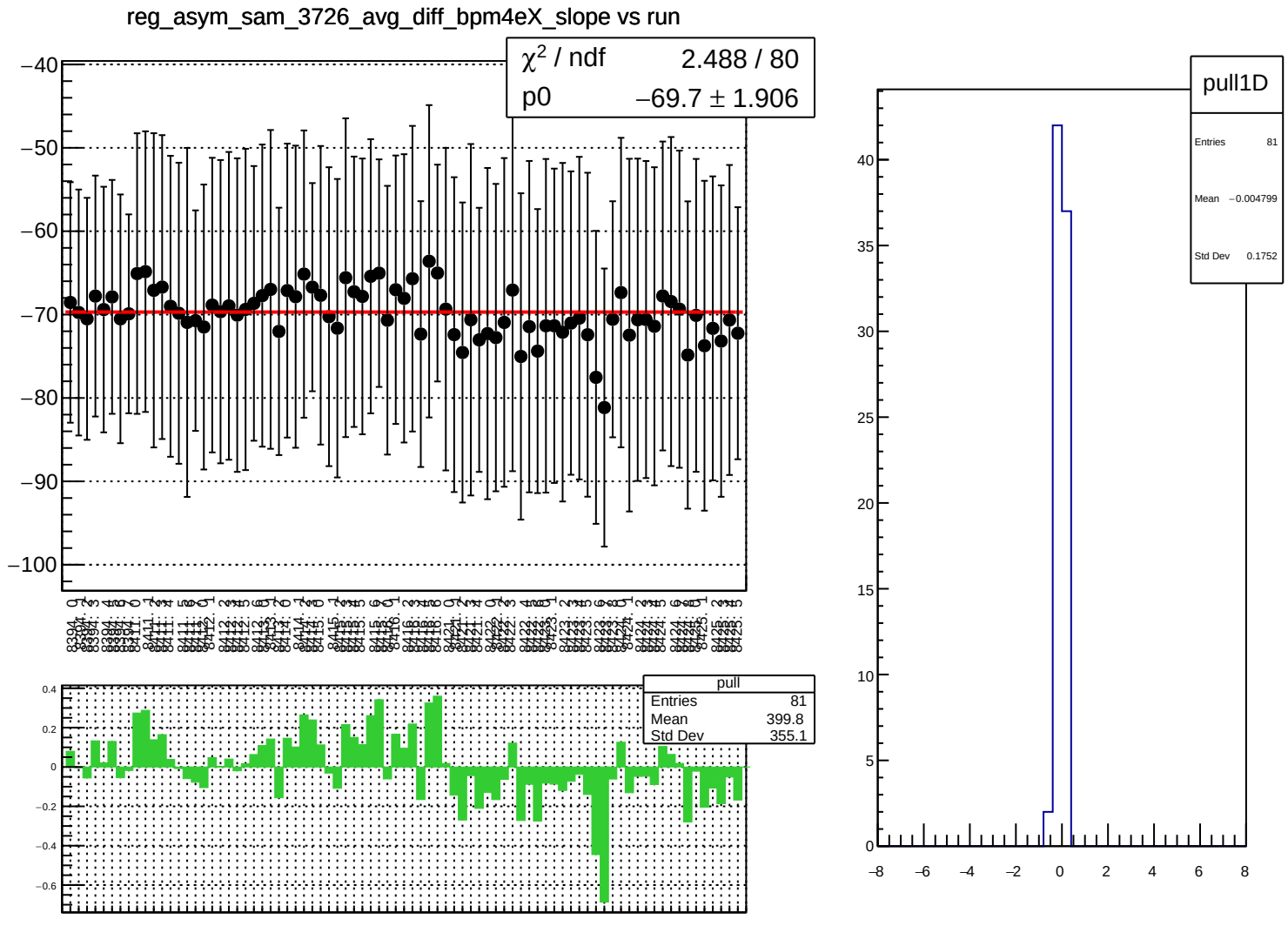

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.829 / 80
p0 6.511 ± 1.569
pull
Entries 81
Mean 213.2
Std Dev 173.2
pull1D
Entries 81
Mean −0.01063
Std Dev 0.1866

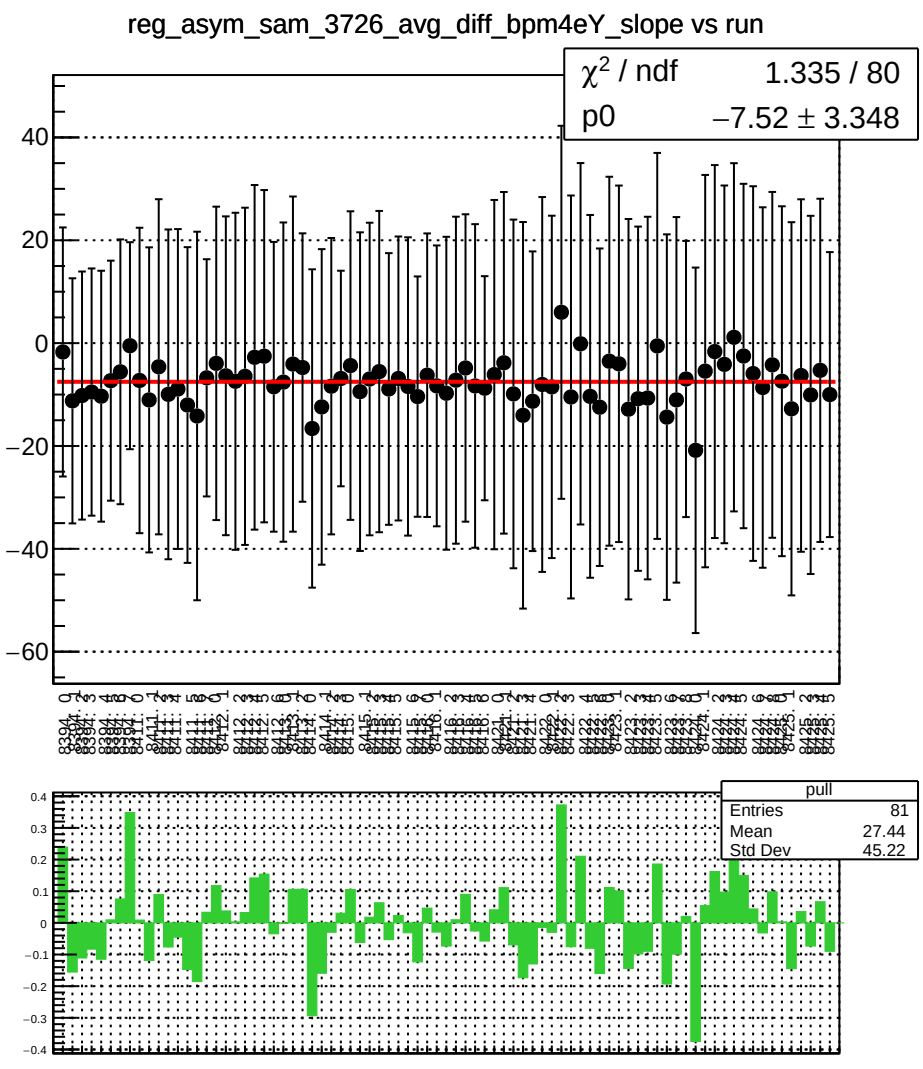

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 2.78 / 80
p0 1.275 ± 0.09433
pull
Entries 81
Mean 173.1
Std Dev 140
pull1D
Entries 81
Mean −0.01297
Std Dev 0.1848

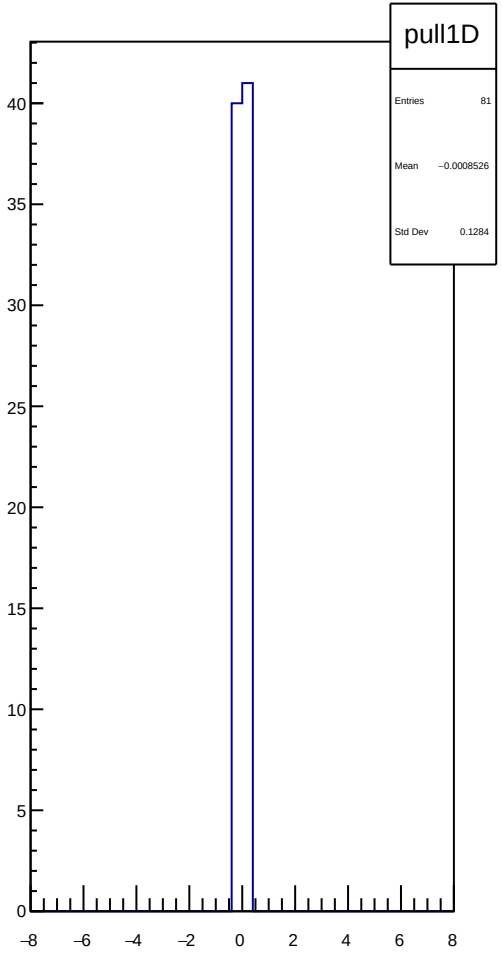

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 3.273 / 80
p0 −1.306 ± 1.719
pull
Entries 81
Mean 407.5
Std Dev 365.4
pull1D
Entries 81
Mean 0.007443
Std Dev 0.2009

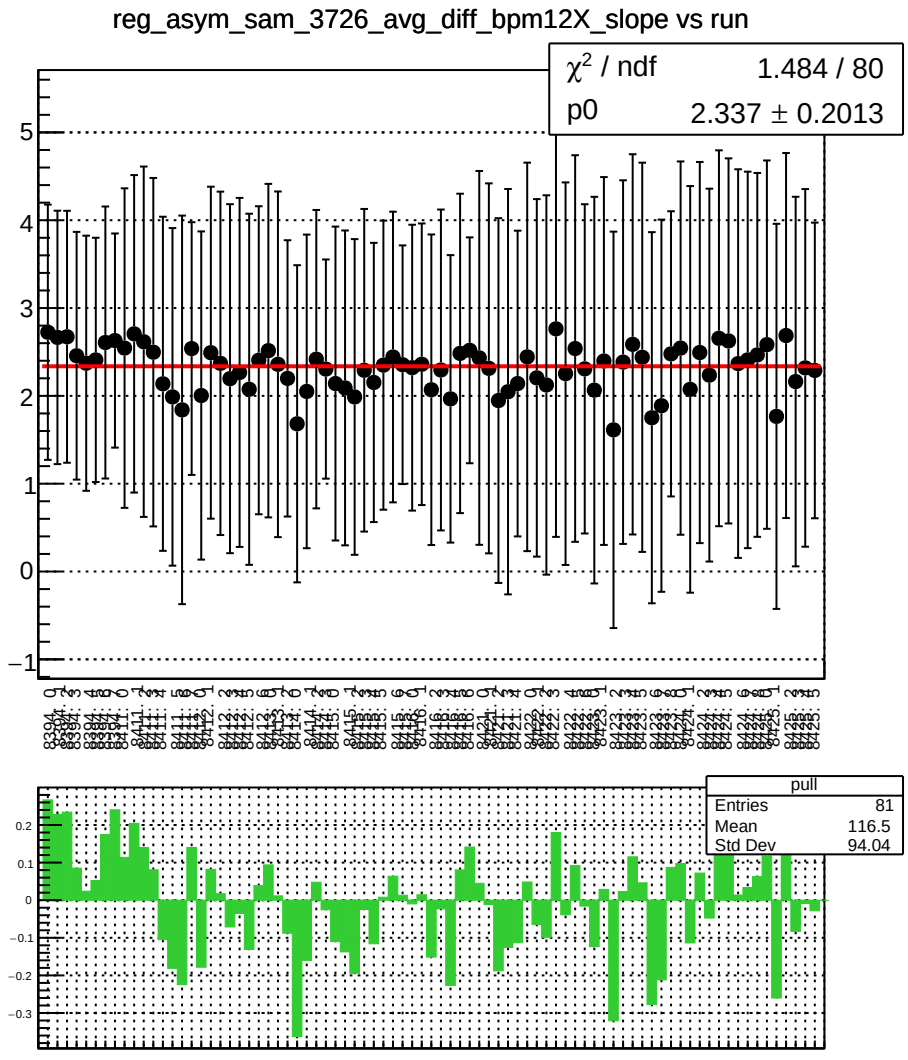

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.462 / 80
p0 −7.791 ± 3.194
pull
Entries 81
Mean 167.8
Std Dev 133.2

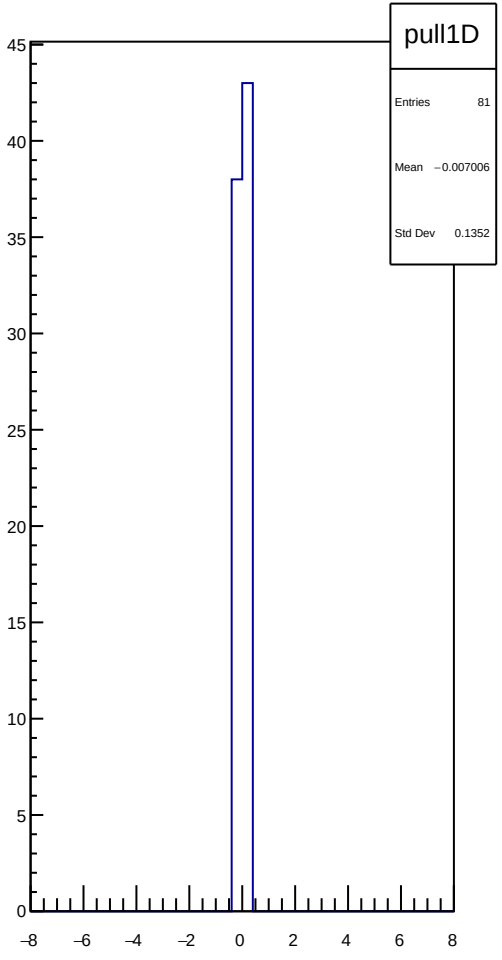

pull1D
Entries 81
Mean 0.002984
Std Dev 0.1343

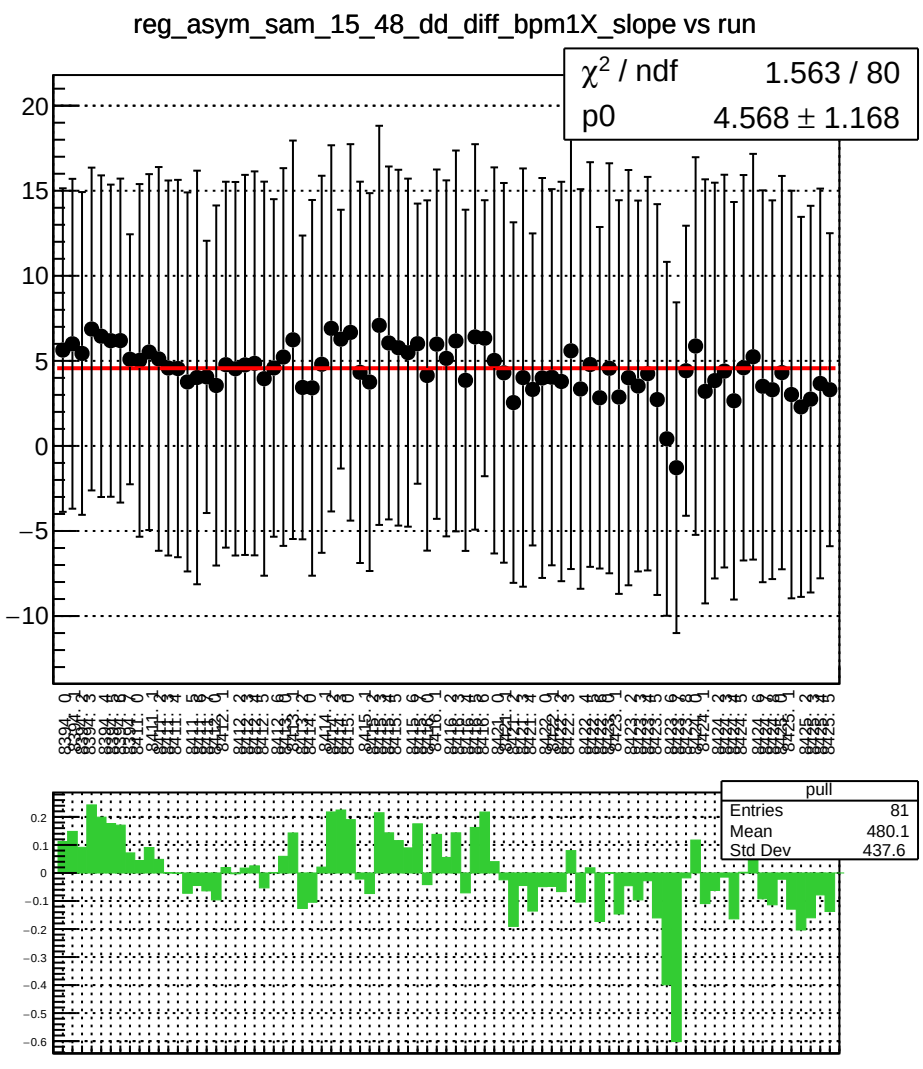

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.488 / 80
p0 −69.7 ± 1.906
pull
Entries 81
Mean 399.8
Std Dev 355.1
pull1D
Entries 81
Mean −0.004799
Std Dev 0.1752

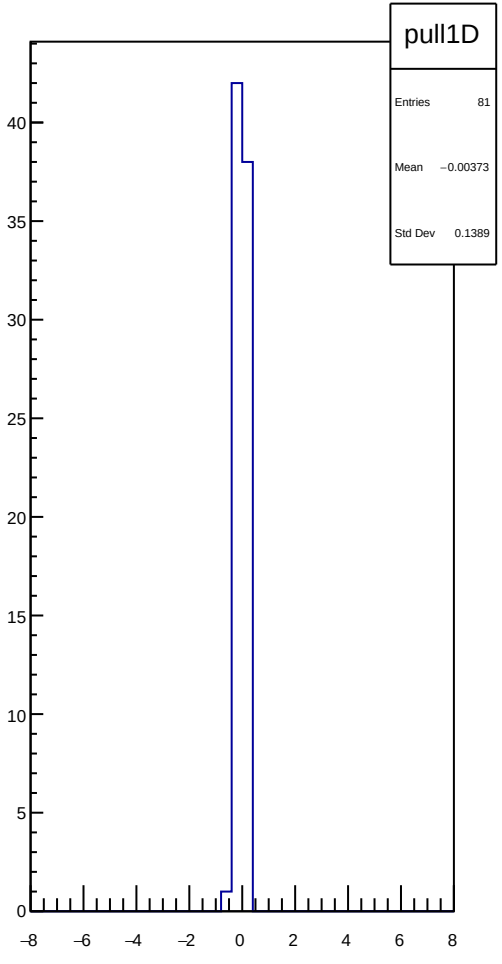

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.335 / 80
p0 −7.52 ± 3.348
pull
Entries 81
Mean 27.44
Std Dev 45.22

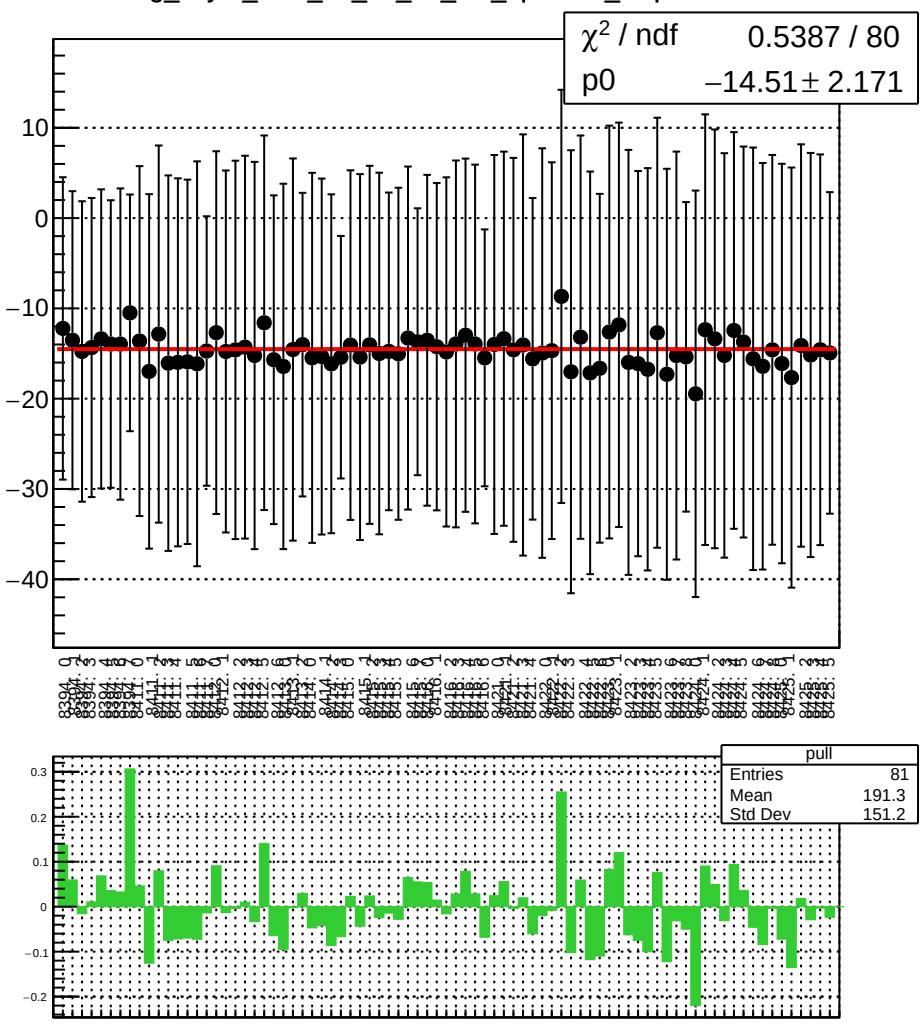

pull1D
Entries 81
Mean −0.0008526
Std Dev 0.1284

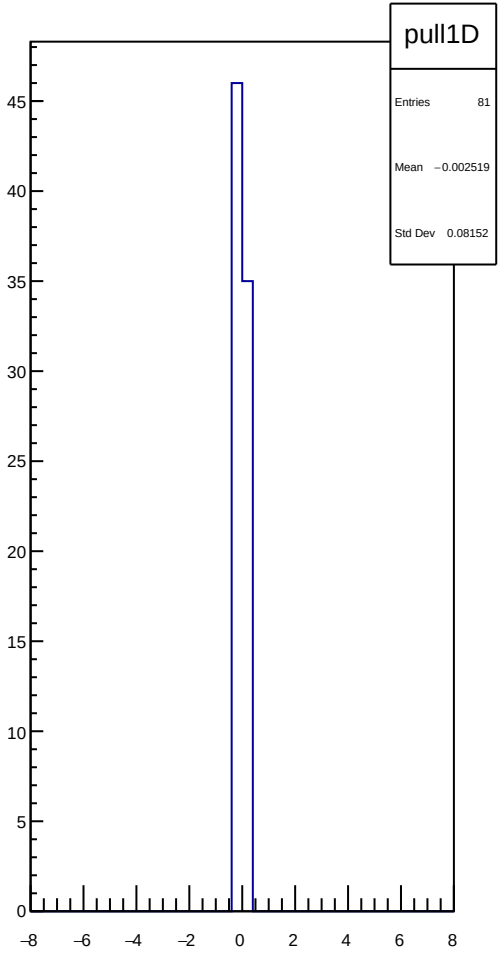

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 1.484 / 80
p0 2.337 ± 0.2013
pull
Entries 81
Mean 116.5
Std Dev 94.04

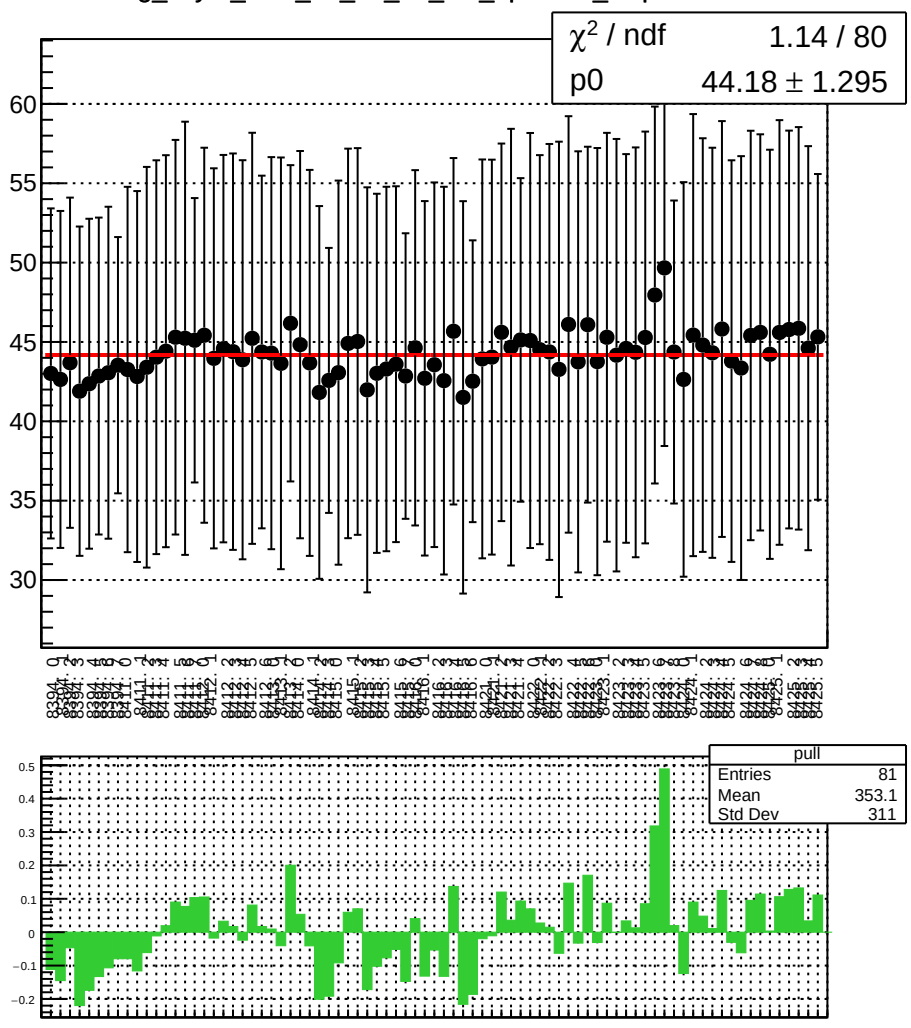

pull1D
Entries 81
Mean −0.007006
Std Dev 0.1352

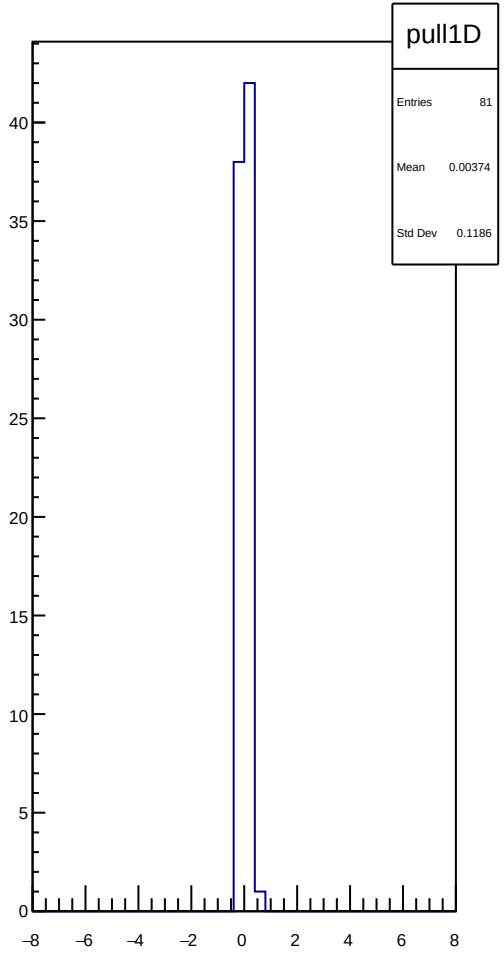

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.563 / 80
p0 4.568 ± 1.168
pull
Entries 81
Mean 480.1
Std Dev 437.6

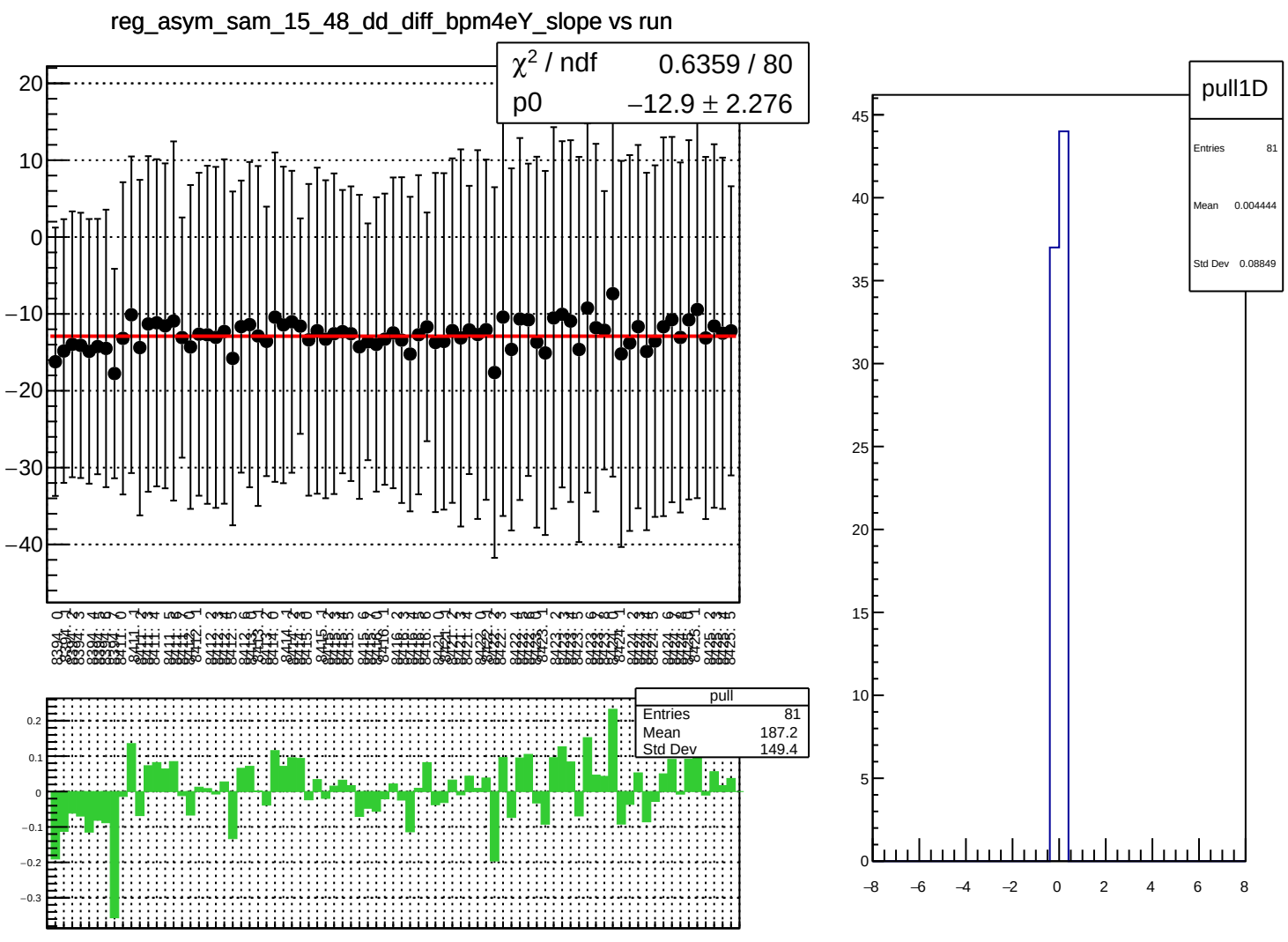

pull1D
Entries 81
Mean −0.00373
Std Dev 0.1389

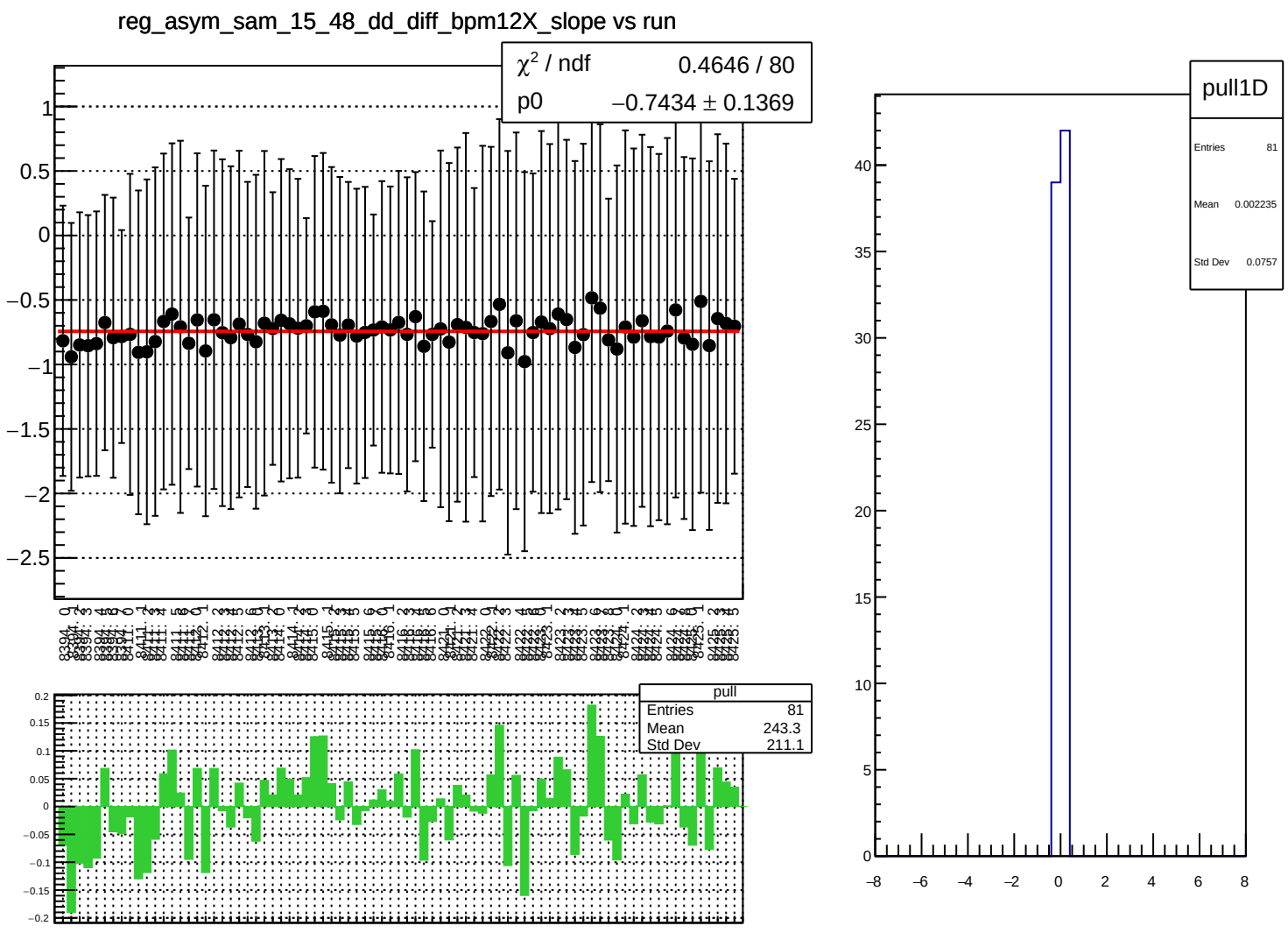

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.5387 / 80
p0 −14.51 ± 2.171
pull
Entries 81
Mean 191.3
Std Dev 151.2

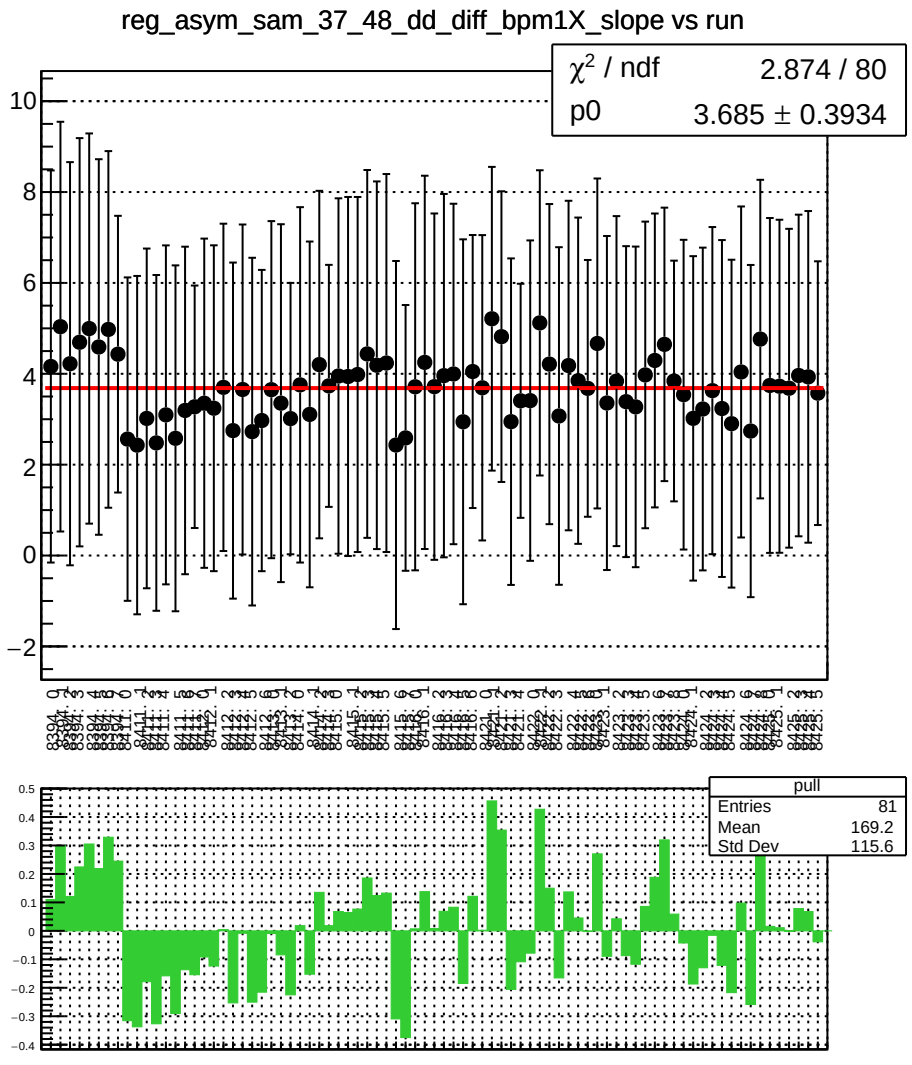

pull1D
Entries 81
Mean −0.002519
Std Dev 0.08152

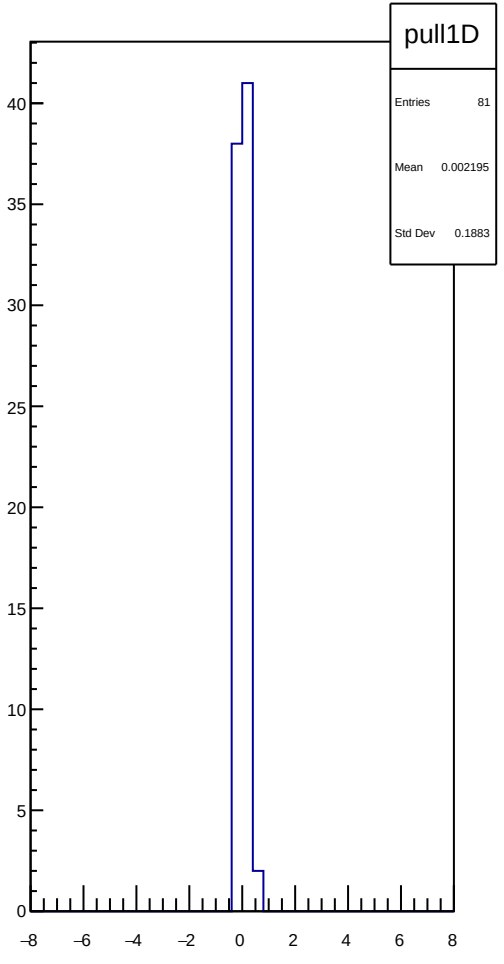

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.14 / 80
p0 44.18 ± 1.295
pull
Entries 81
Mean 353.1
Std Dev 311

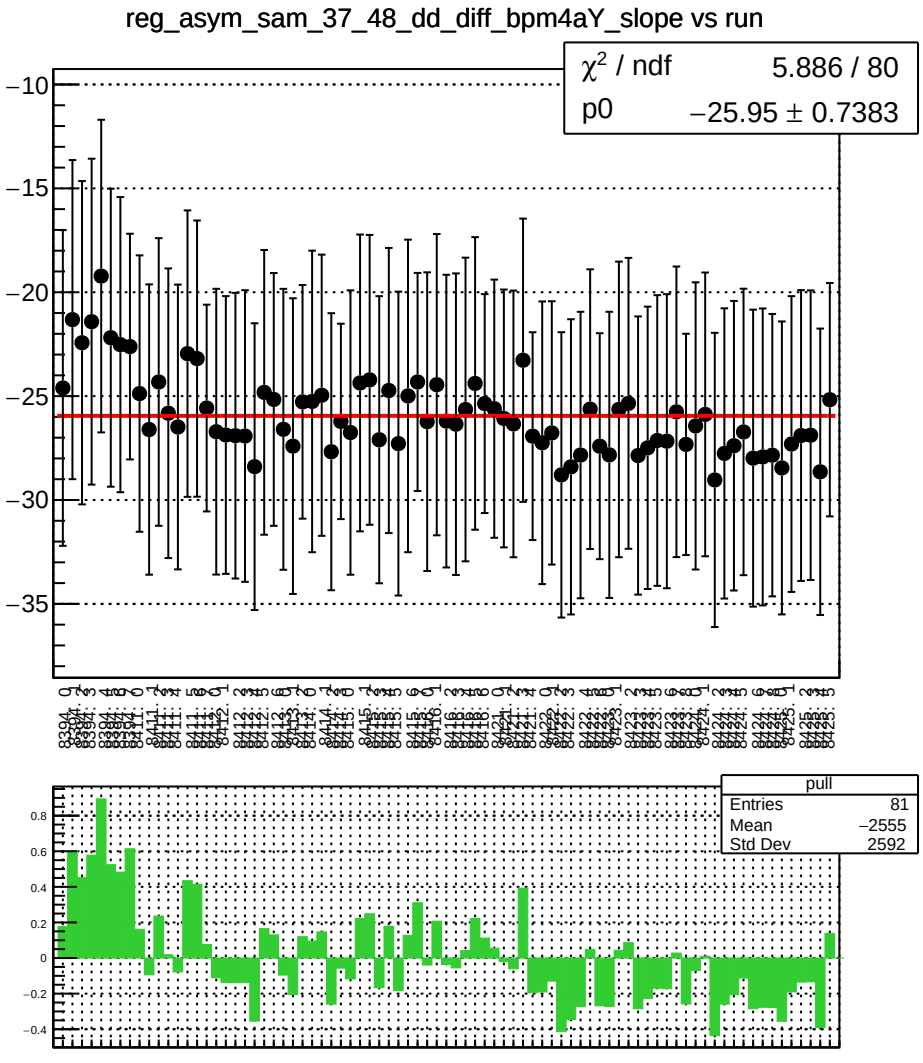

pull1D
Entries 81
Mean 0.00374
Std Dev 0.1186

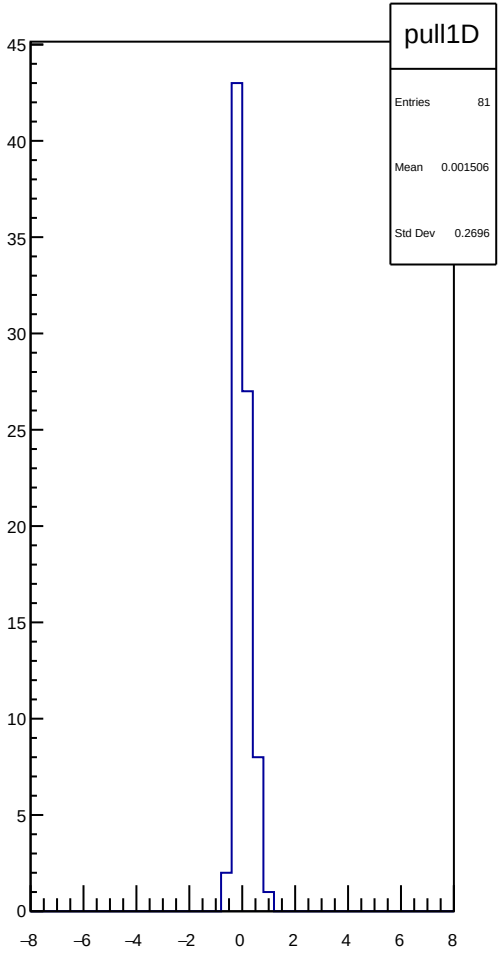

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.6359 / 80
p0 −12.9 ± 2.276
pull
Entries 81
Mean 187.2
Std Dev 149.4
pull1D
Entries 81
Mean 0.004444
Std Dev 0.08849

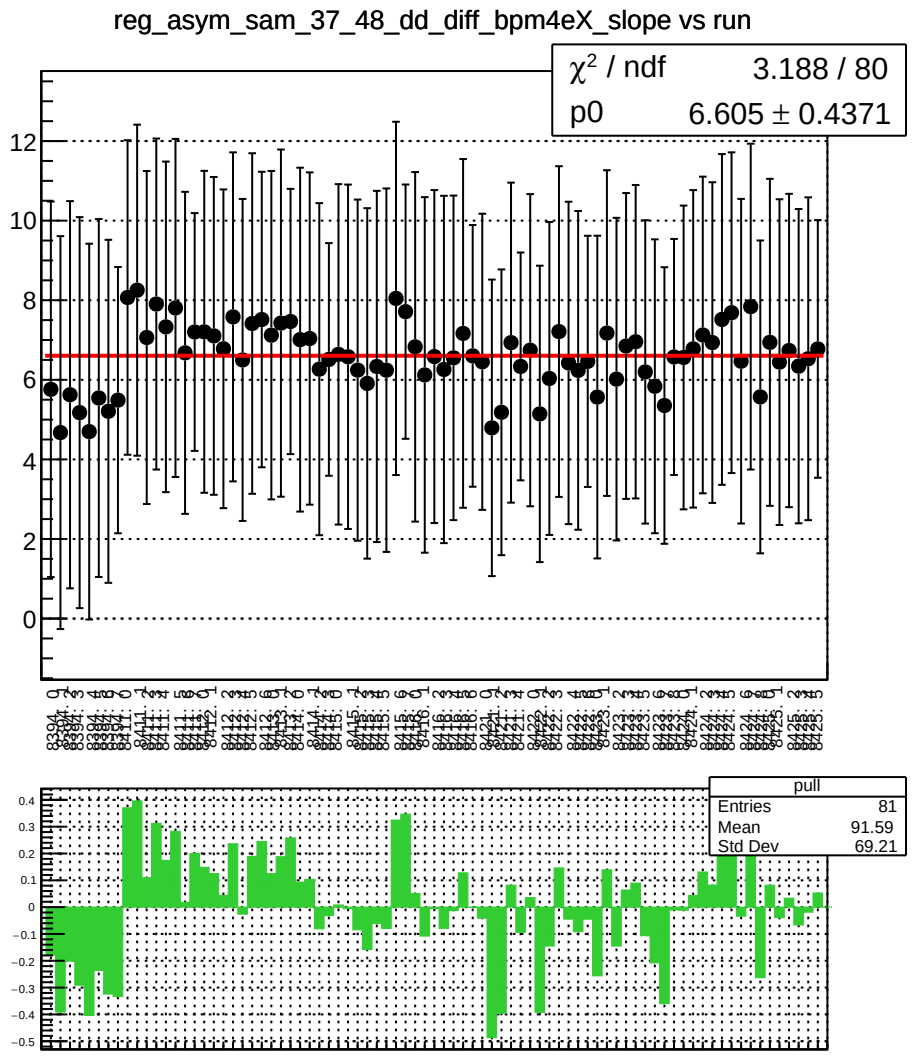

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.4646 / 80
p0 −0.7434 ± 0.1369
pull
Entries 81
Mean 243.3
Std Dev 211.1
pull1D
Entries 81
Mean 0.002235
Std Dev 0.0757

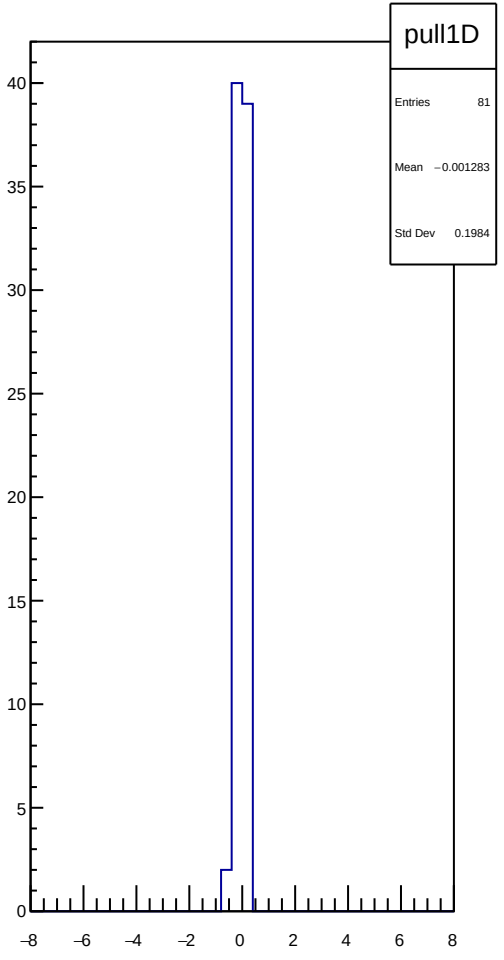

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.874 / 80
p0 3.685 ± 0.3934
pull
Entries 81
Mean 169.2
Std Dev 115.6

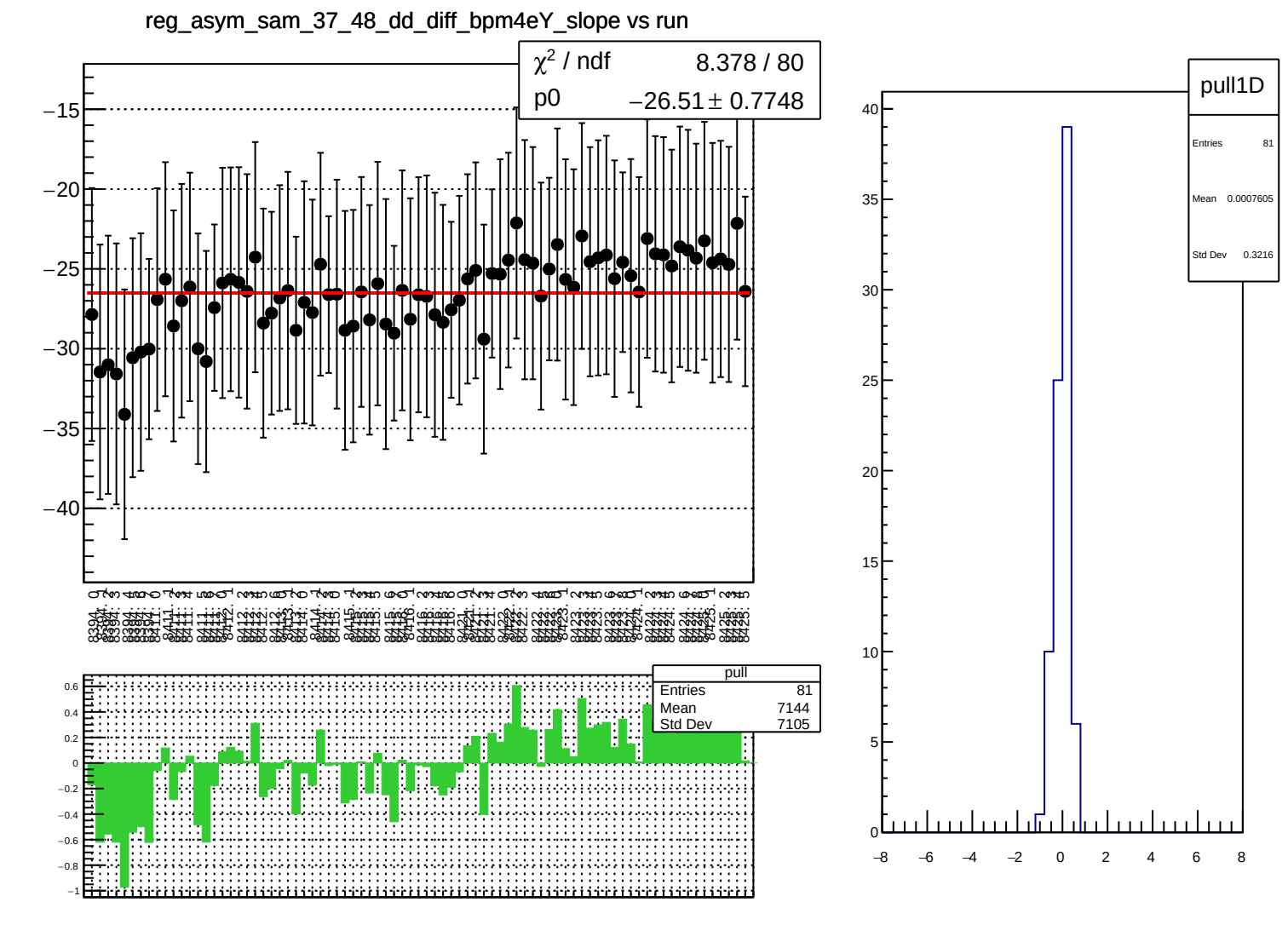

pull1D
Entries 81
Mean 0.002195
Std Dev 0.1883

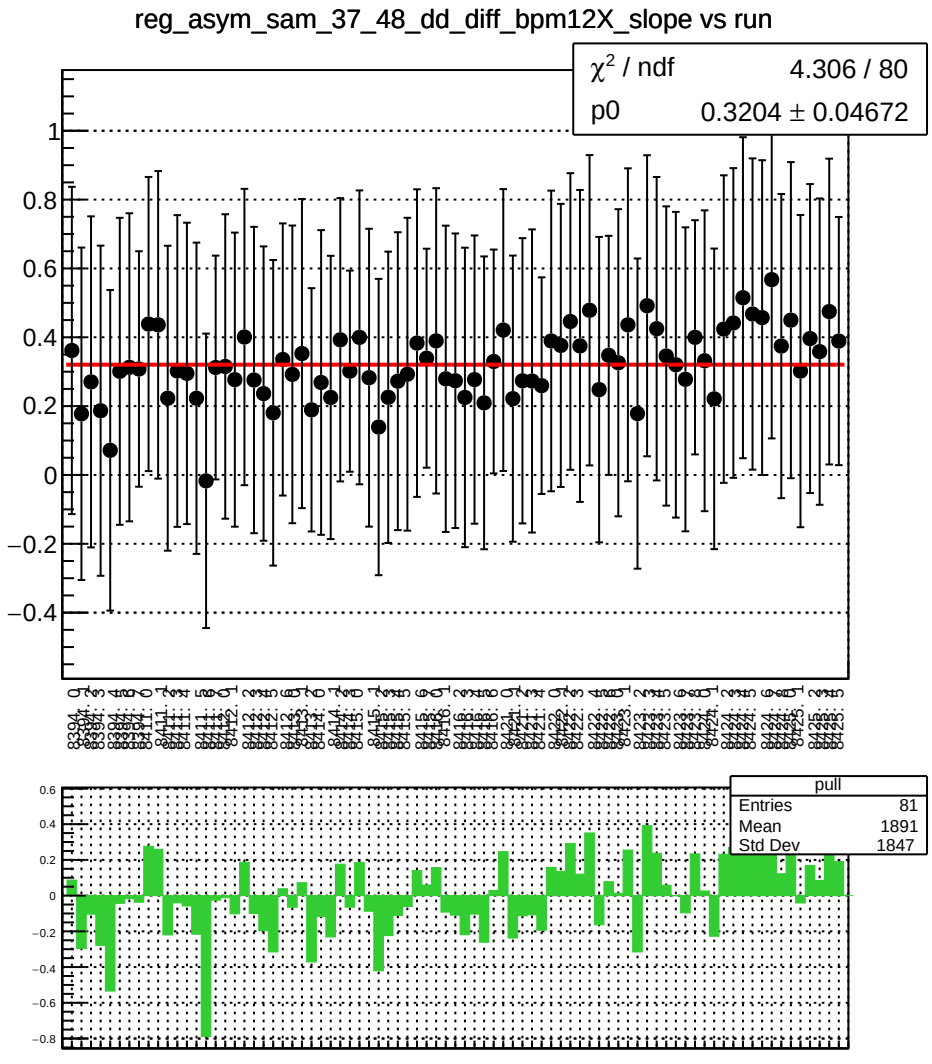

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.886 / 80
p0 −25.95 ± 0.7383
pull
Entries 81
Mean −2555
Std Dev 2592

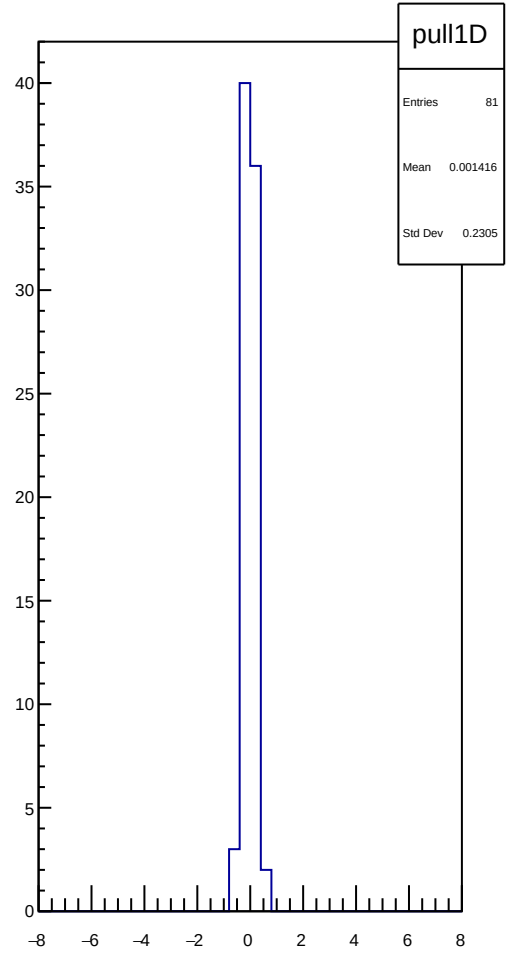

pull1D
Entries 81
Mean 0.001506
Std Dev 0.2696

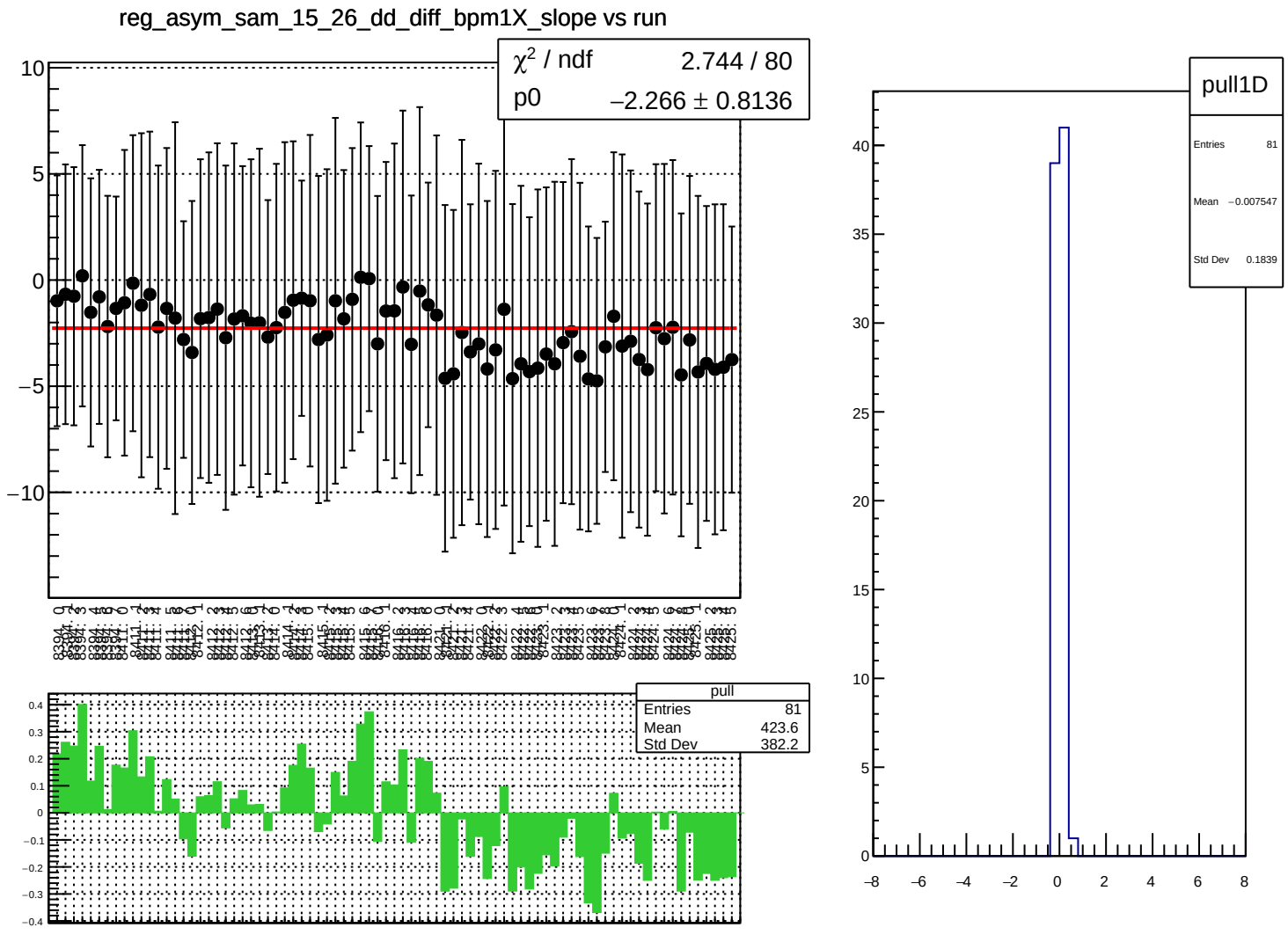

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.188 / 80
p0 6.605 ± 0.4371
pull
Entries 81
Mean 91.59
Std Dev 69.21

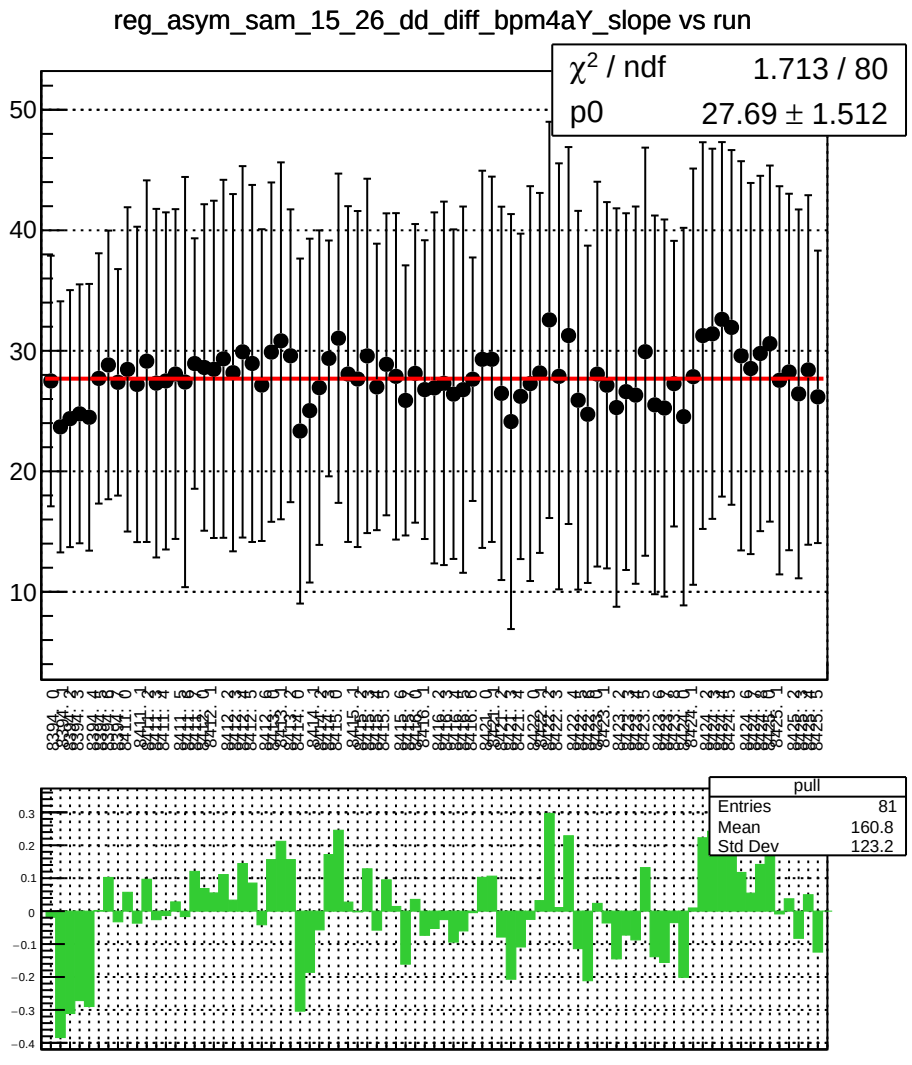

pull1D
Entries 81
Mean −0.001283
Std Dev 0.1984

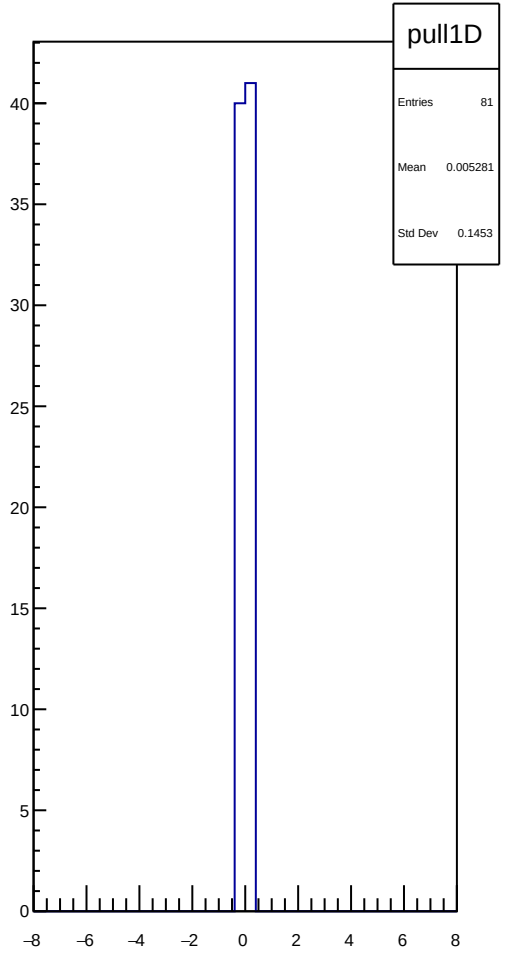

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.378 / 80
p0 −26.51 ± 0.7748
pull
Entries 81
Mean 7144
Std Dev 7105
pull1D
Entries 81
Mean 0.0007605
Std Dev 0.3216

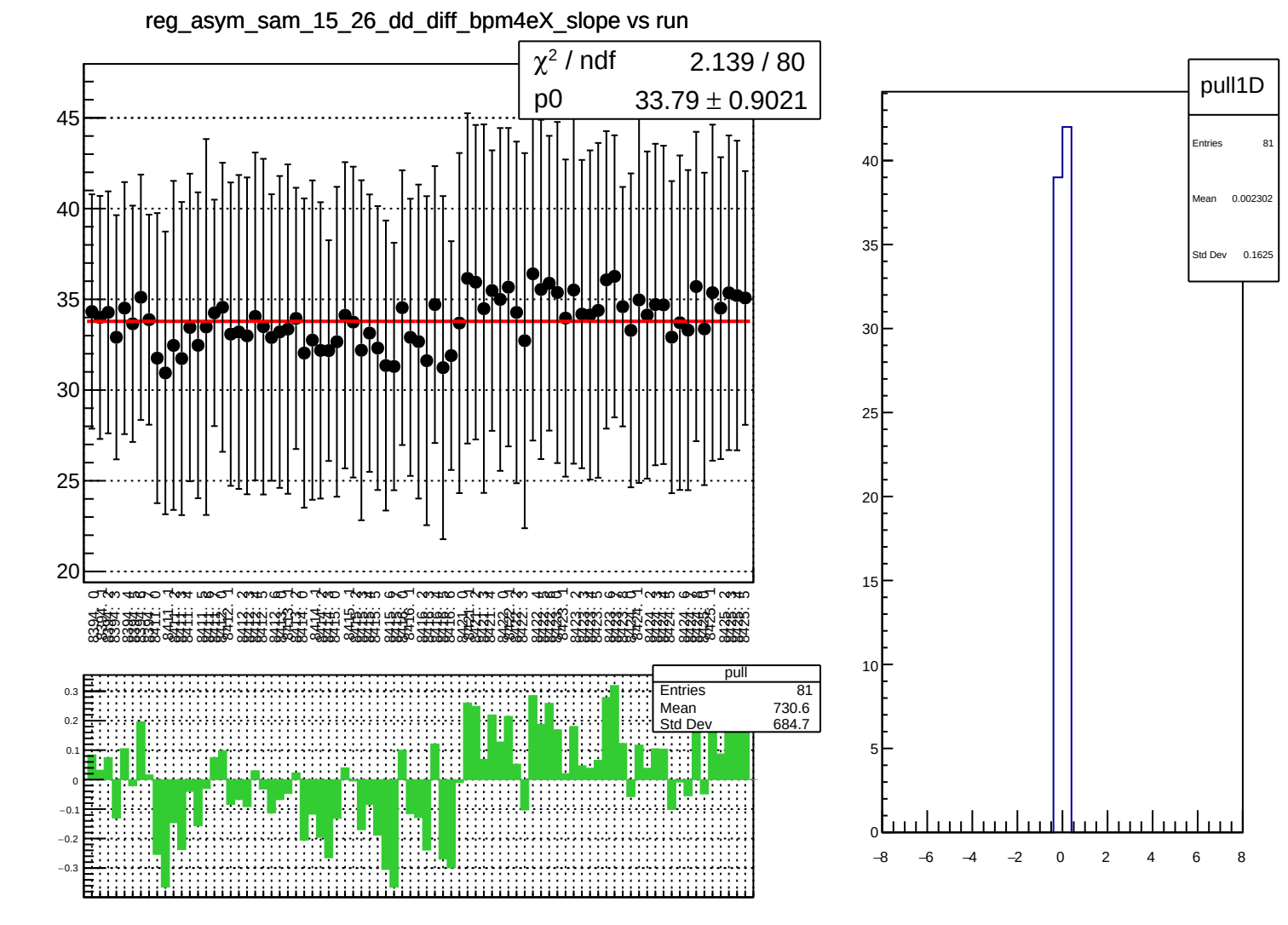

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.306 / 80
p0 0.3204 ± 0.04672
pull
Entries 81
Mean 1891
Std Dev 1847

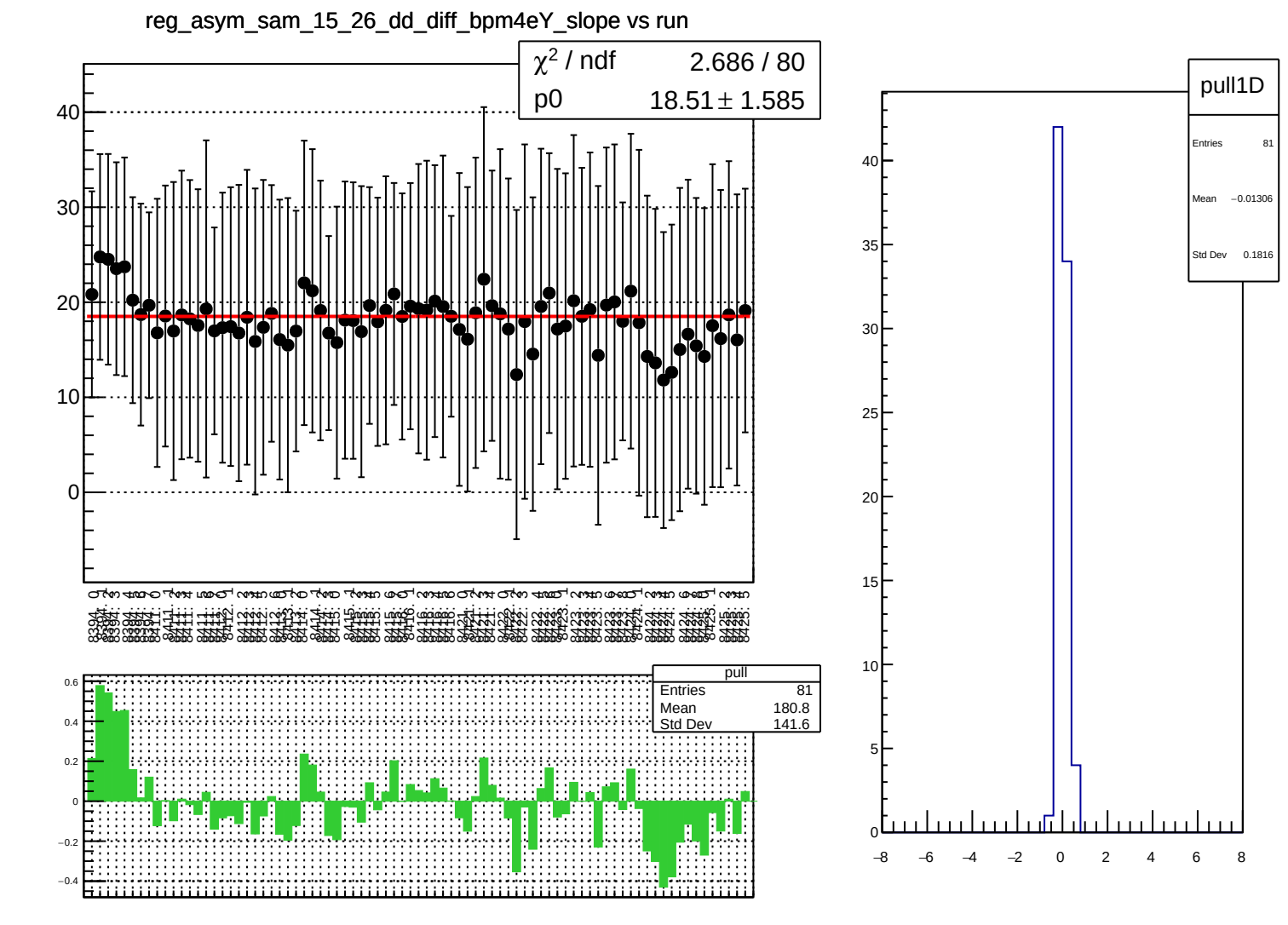

pull1D
Entries 81
Mean 0.001416
Std Dev 0.2305

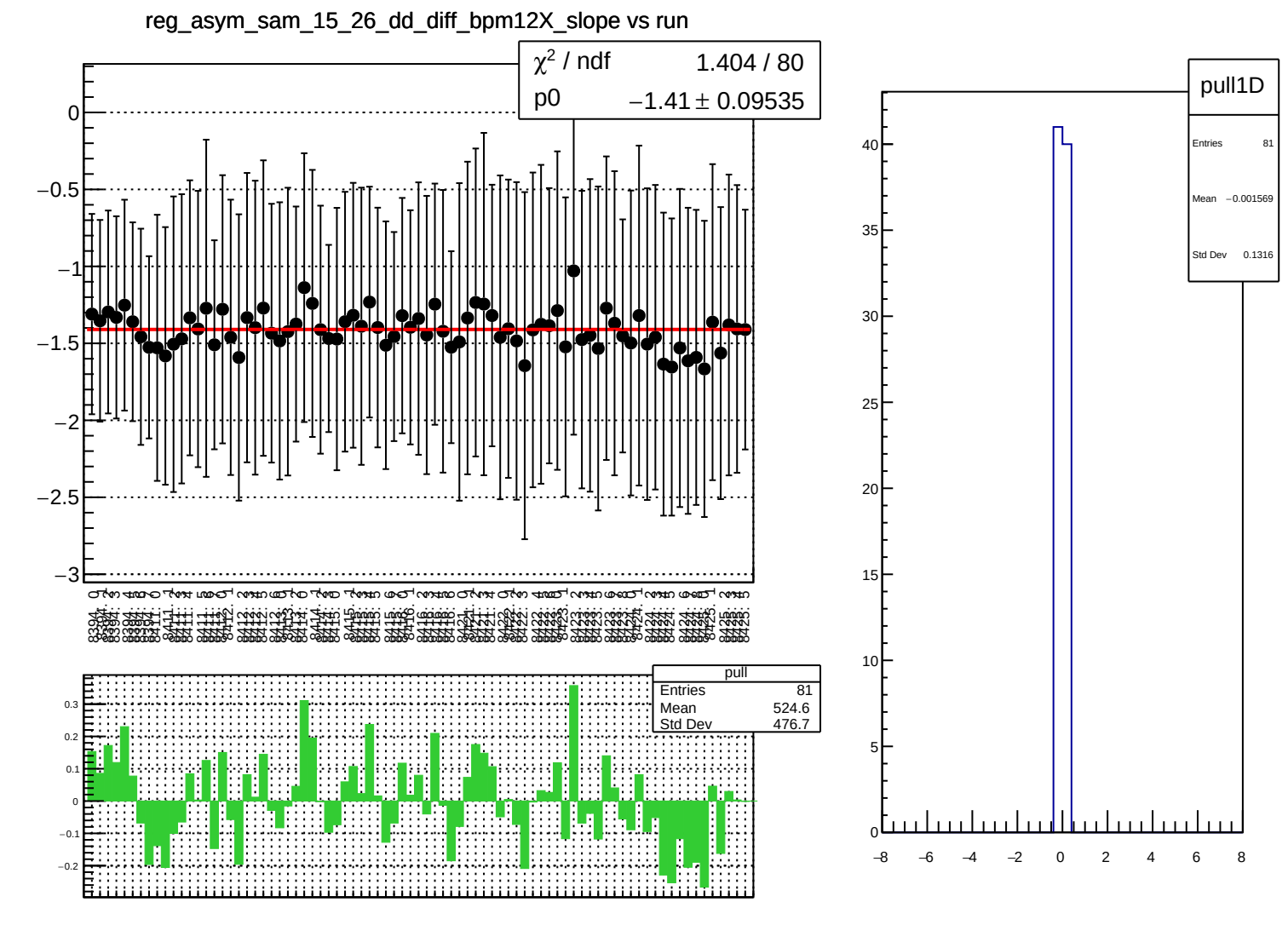

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.744 / 80
p0 −2.266 ± 0.8136
pull
Entries 81
Mean 423.6
Std Dev 382.2
pull1D
Entries 81
Mean −0.007547
Std Dev 0.1839

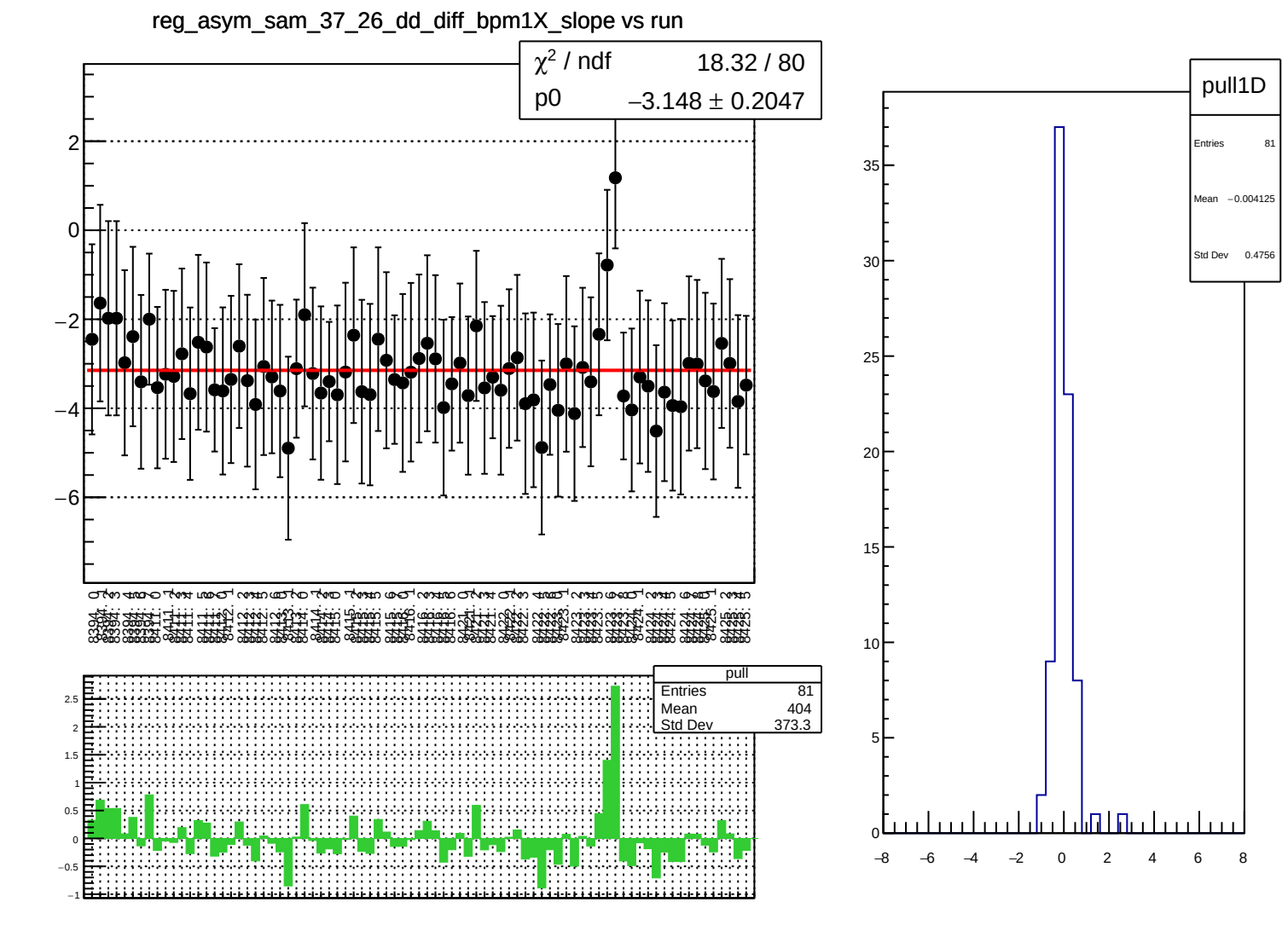

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.713 / 80
p0 27.69 ± 1.512
pull
Entries 81
Mean 160.8
Std Dev 123.2

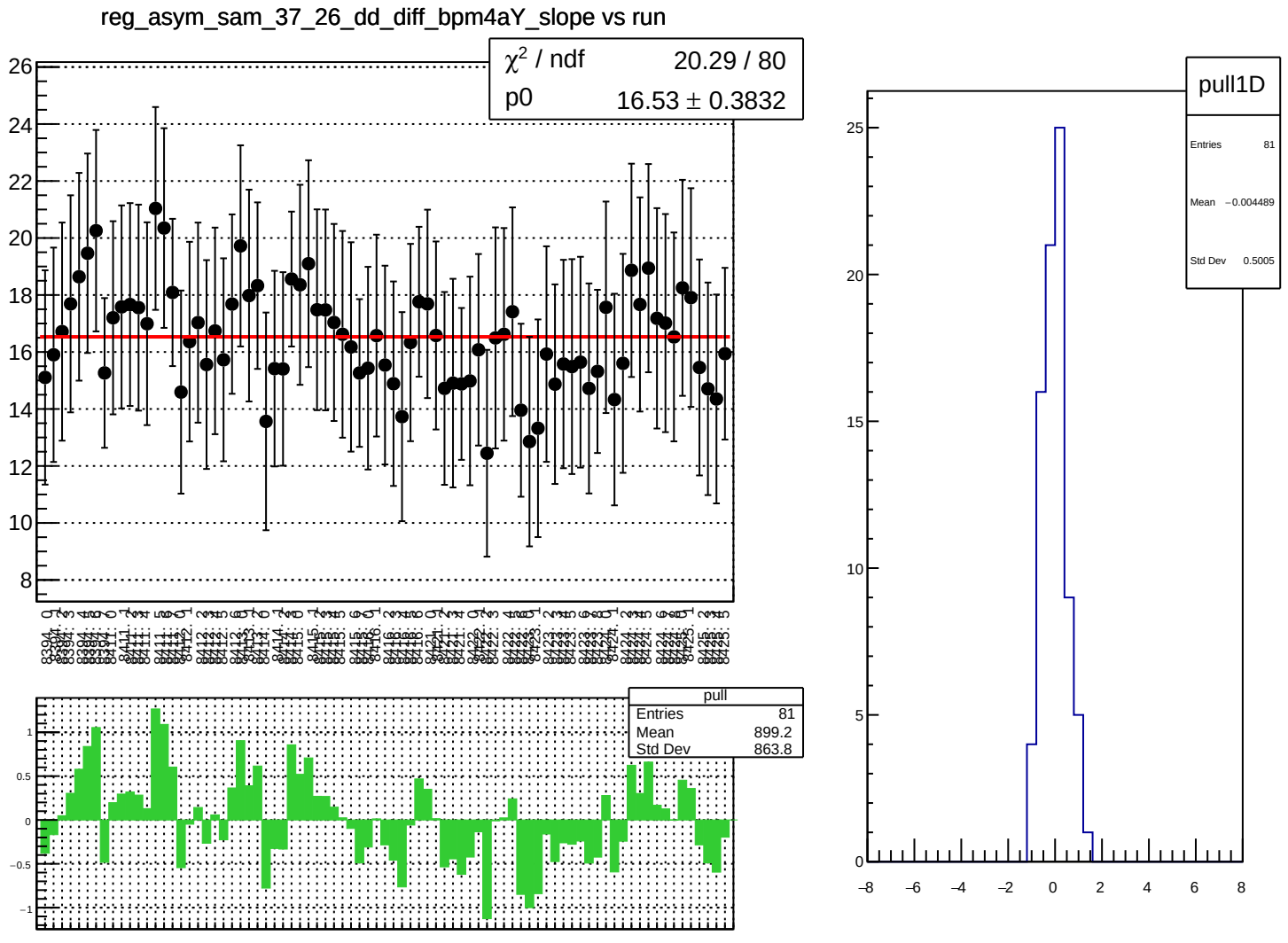

pull1D
Entries 81
Mean 0.005281
Std Dev 0.1453

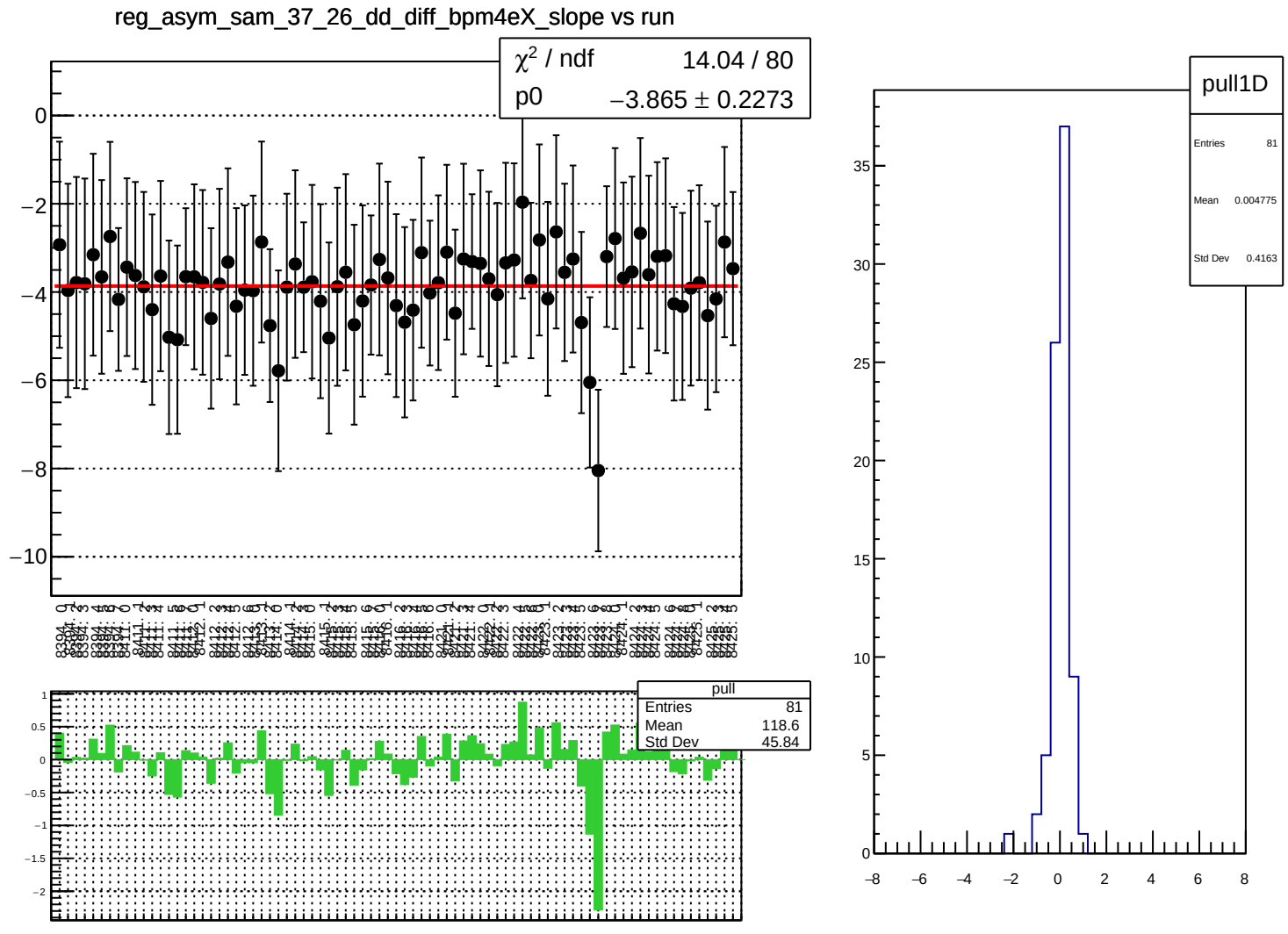

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.139 / 80
p0 33.79 ± 0.9021
pull
Entries 81
Mean 730.6
Std Dev 684.7
pull1D
Entries 81
Mean 0.002302
Std Dev 0.1625

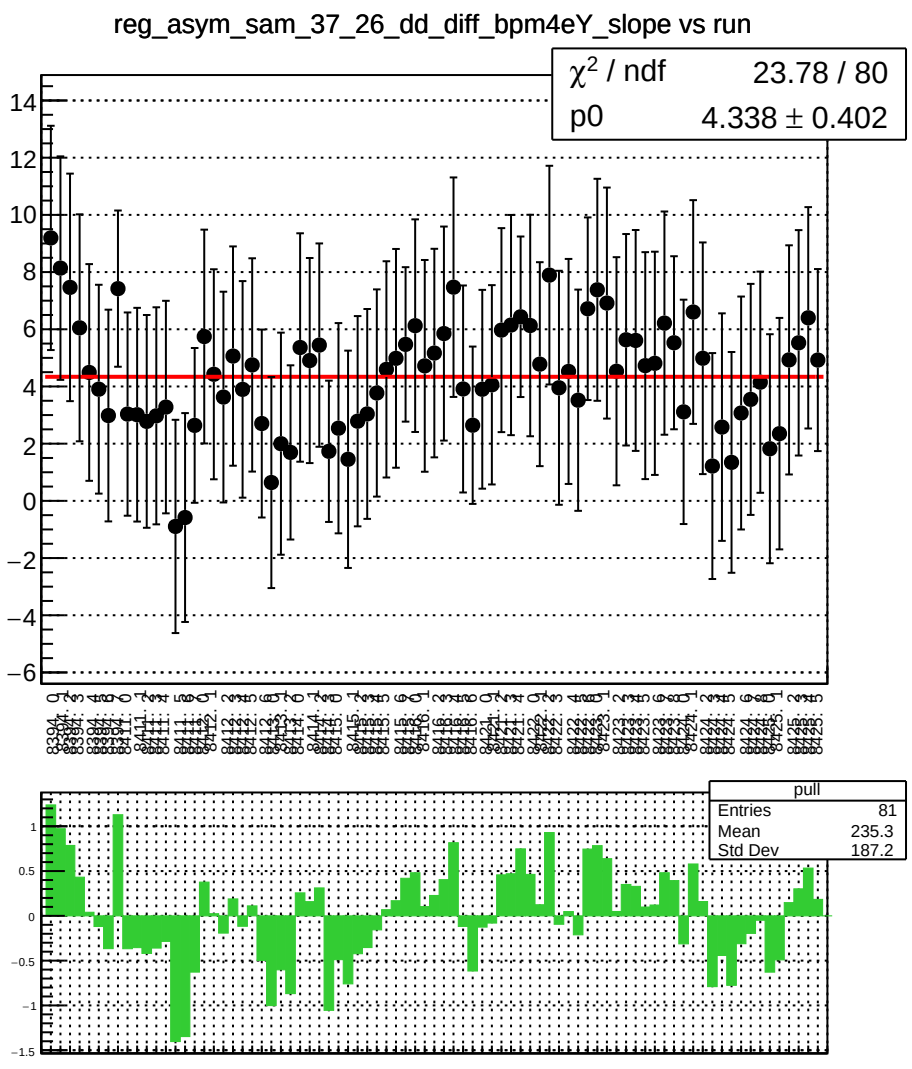

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.686 / 80
p0 18.51 ± 1.585
pull
Entries 81
Mean 180.8
Std Dev 141.6
pull1D
Entries 81
Mean −0.01306
Std Dev 0.1816

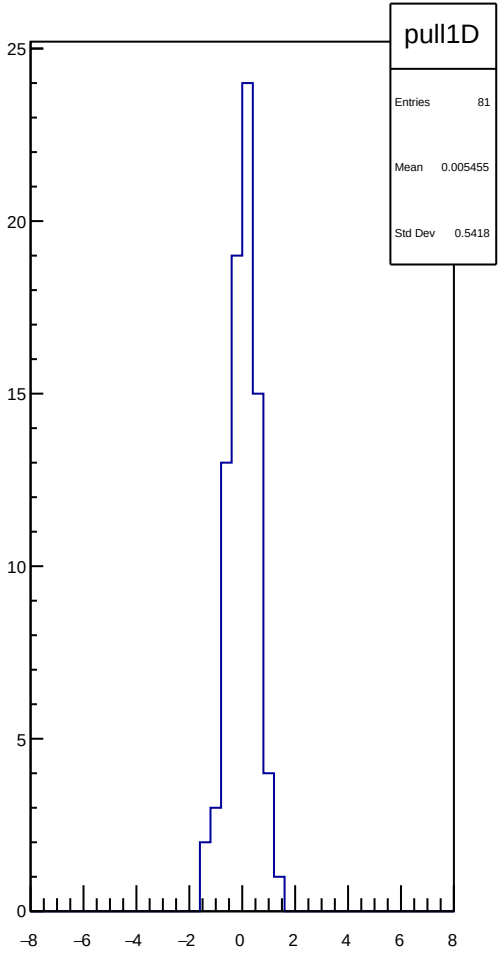

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.404 / 80
p0 −1.41 ± 0.09535
pull
Entries 81
Mean 524.6
Std Dev 476.7
pull1D
Entries 81
Mean −0.001569
Std Dev 0.1316

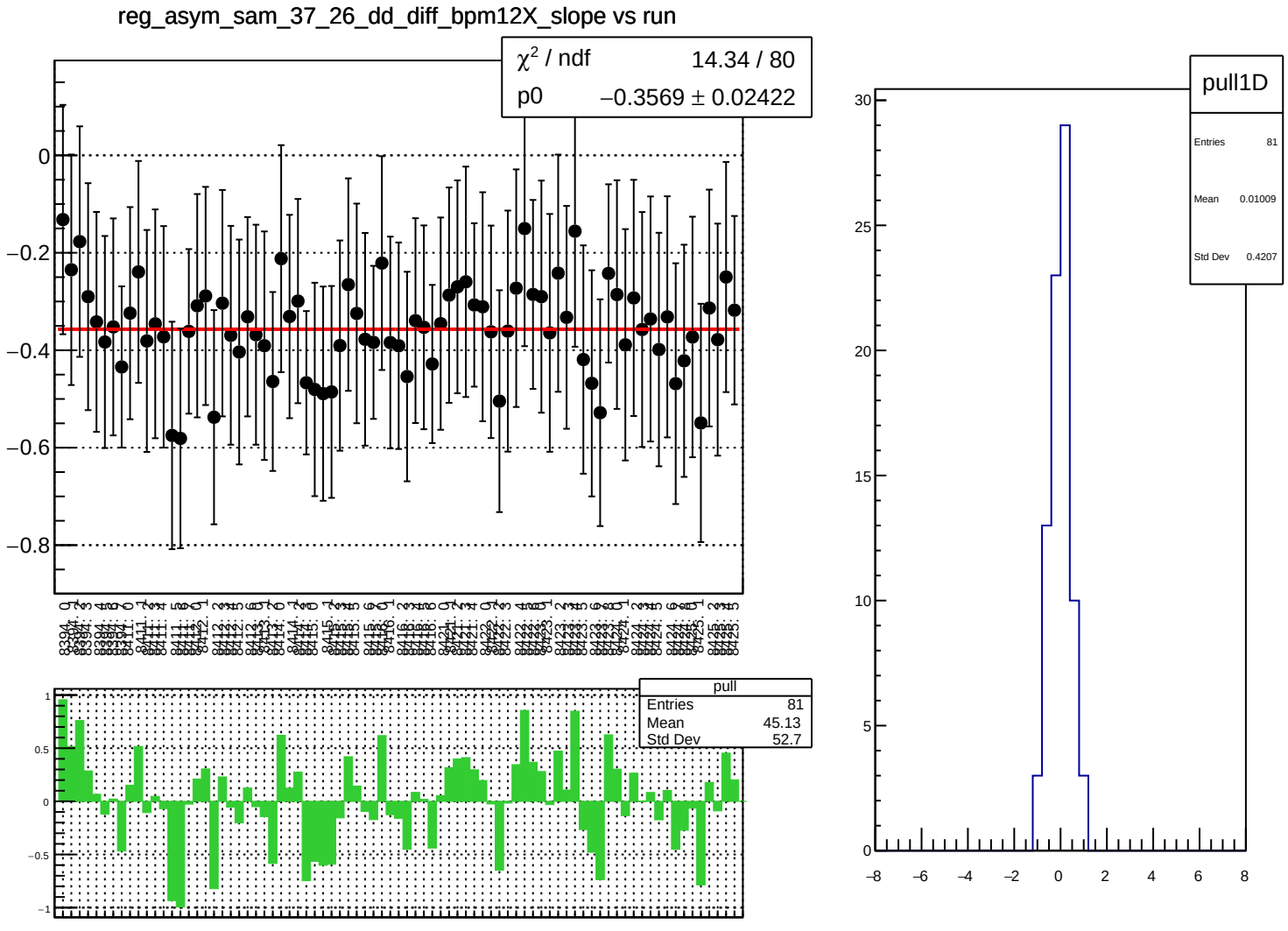

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 18.32 / 80
p0 −3.148 ± 0.2047
pull
Entries 81
Mean 404
Std Dev 373.3
pull1D
Entries 81
Mean −0.004125
Std Dev 0.4756

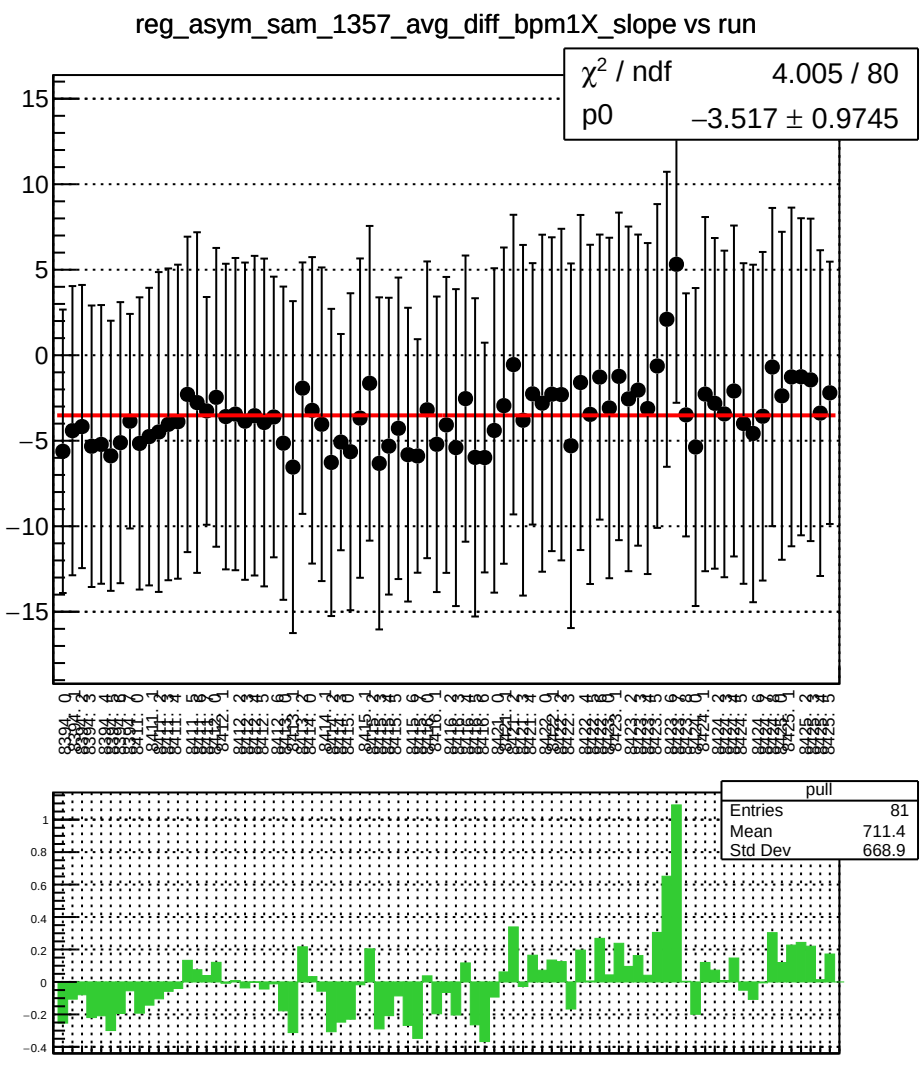

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.29 / 80
p0 16.53 ± 0.3832
pull
Entries 81
Mean 899.2
Std Dev 863.8
pull1D
Entries 81
Mean −0.004489
Std Dev 0.5005

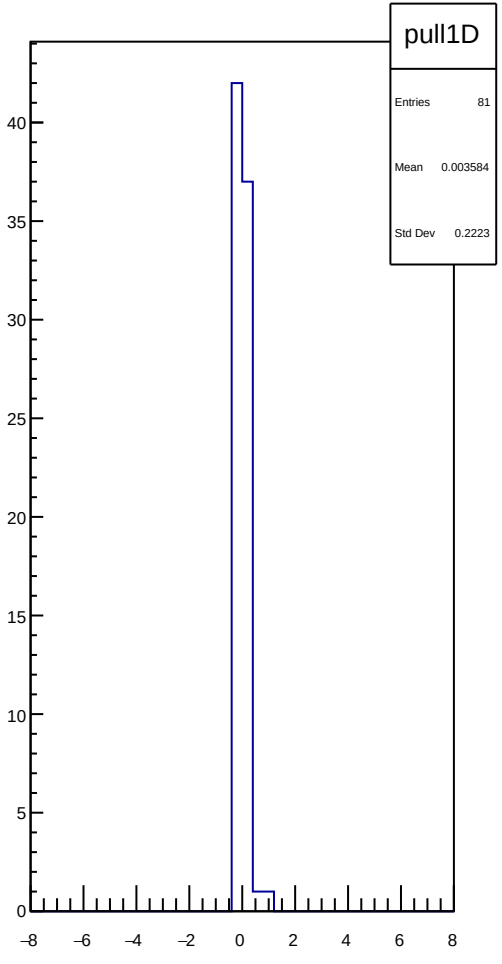

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.04 / 80
p0 −3.865 ± 0.2273
pull
Entries 81
Mean 118.6
Std Dev 45.84
pull1D
Entries 81
Mean 0.004775
Std Dev 0.4163

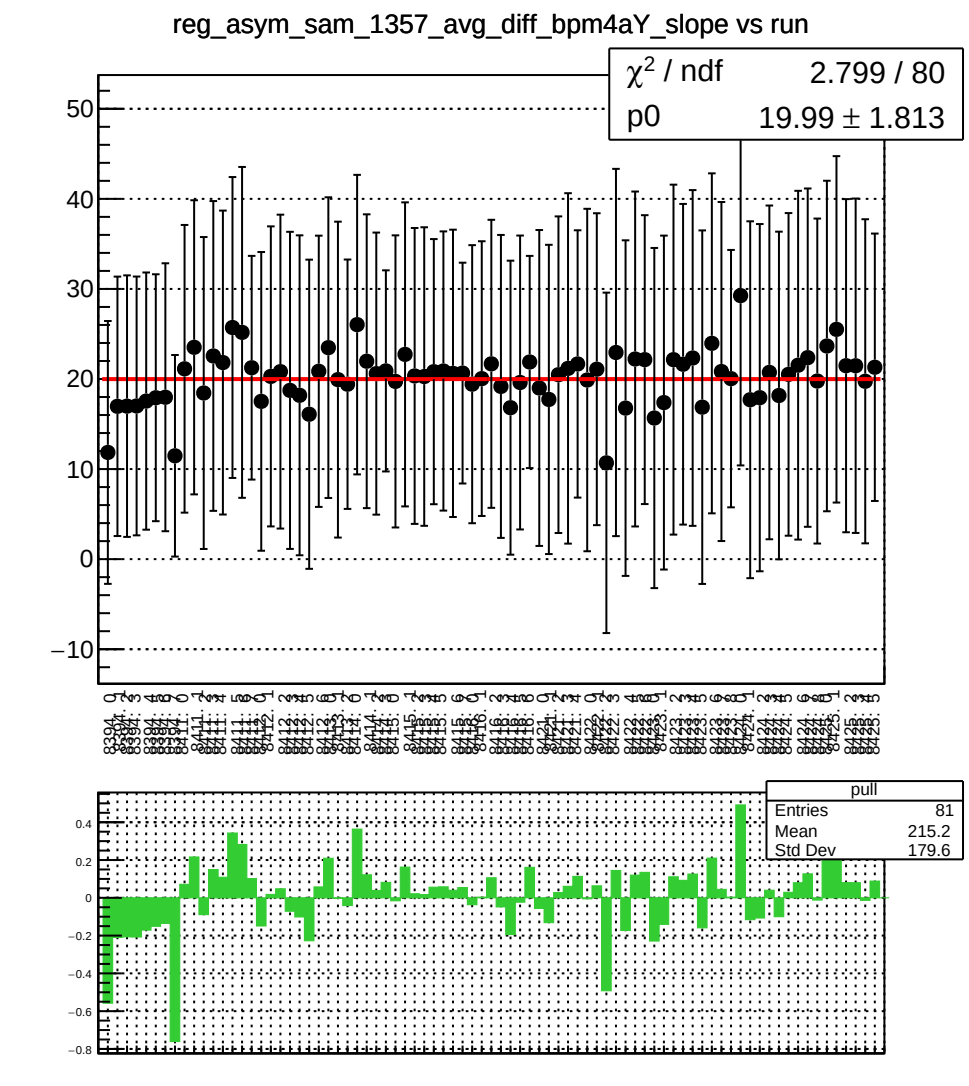

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.78 / 80
p0 4.338 ± 0.402
pull
Entries 81
Mean 235.3
Std Dev 187.2

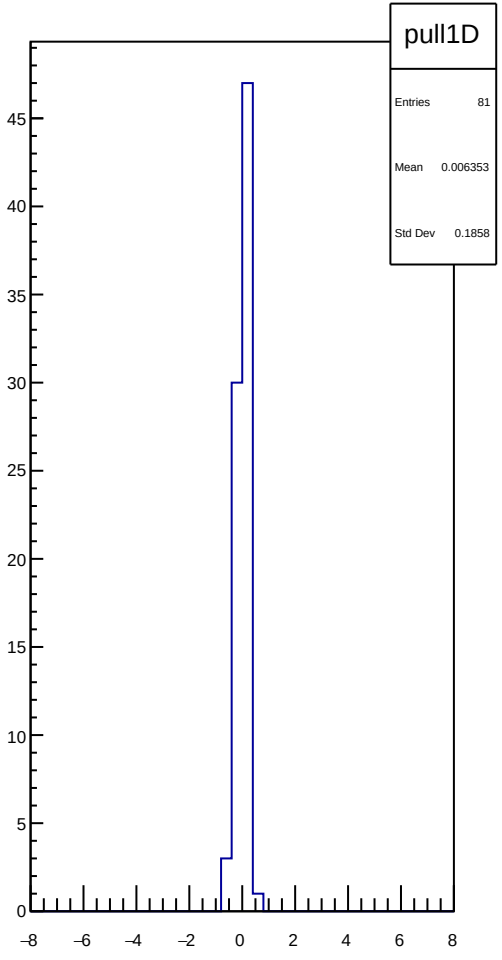

pull1D
Entries 81
Mean 0.005455
Std Dev 0.5418

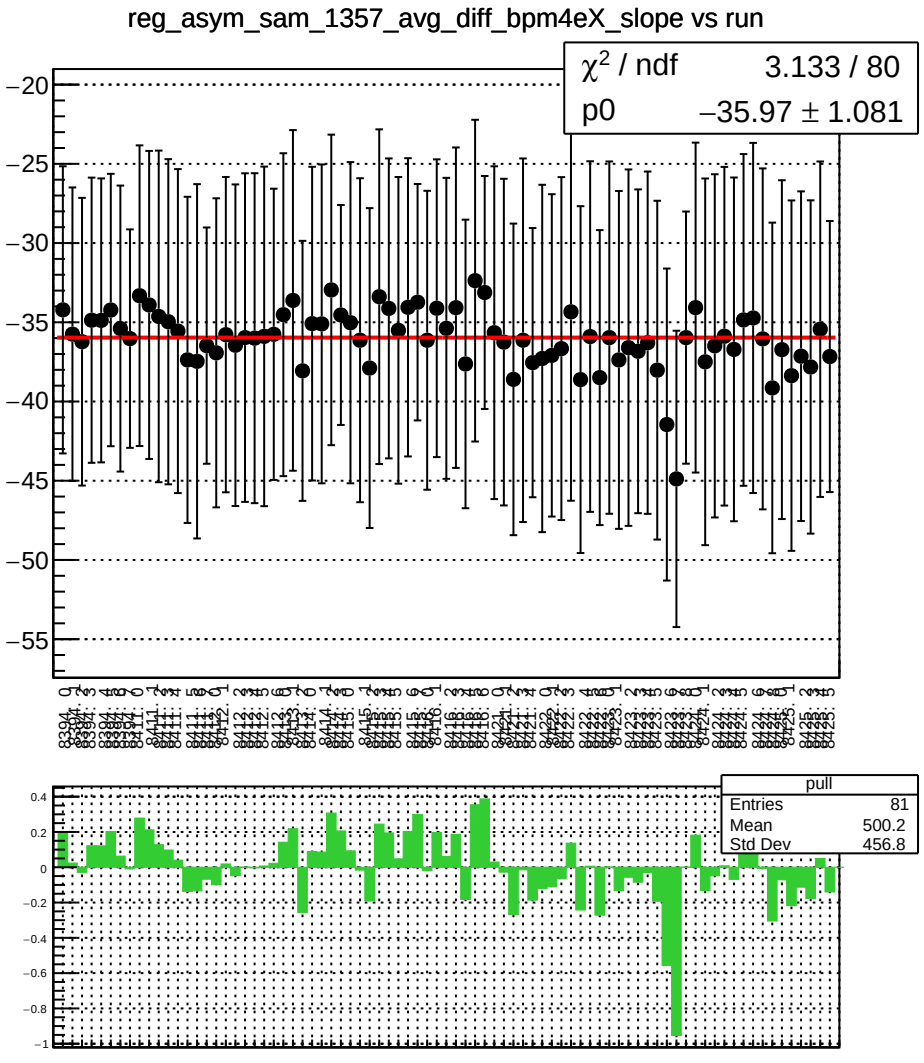

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 14.34 / 80
p0 −0.3569 ± 0.02422
pull
Entries 81
Mean 45.13
Std Dev 52.7
pull1D
Entries 81
Mean 0.01009
Std Dev 0.4207

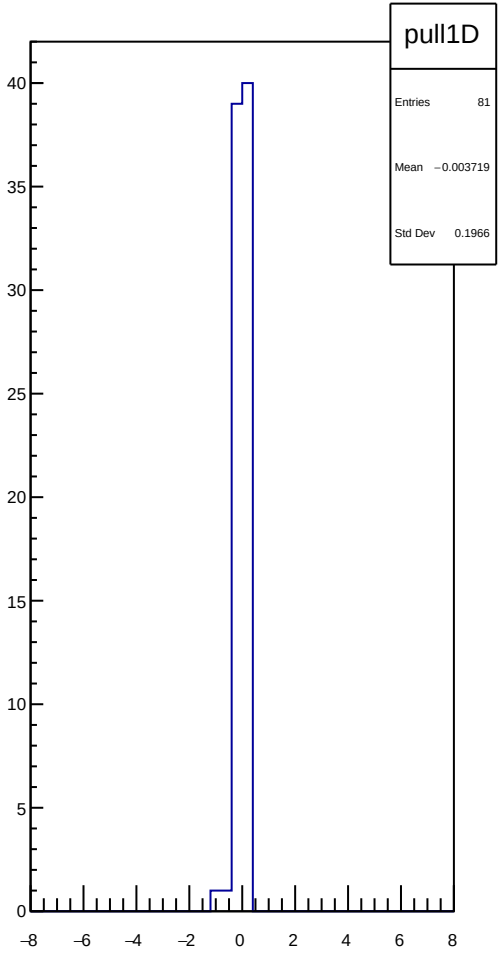

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 4.005 / 80
p0 −3.517 ± 0.9745
pull
Entries 81
Mean 711.4
Std Dev 668.9

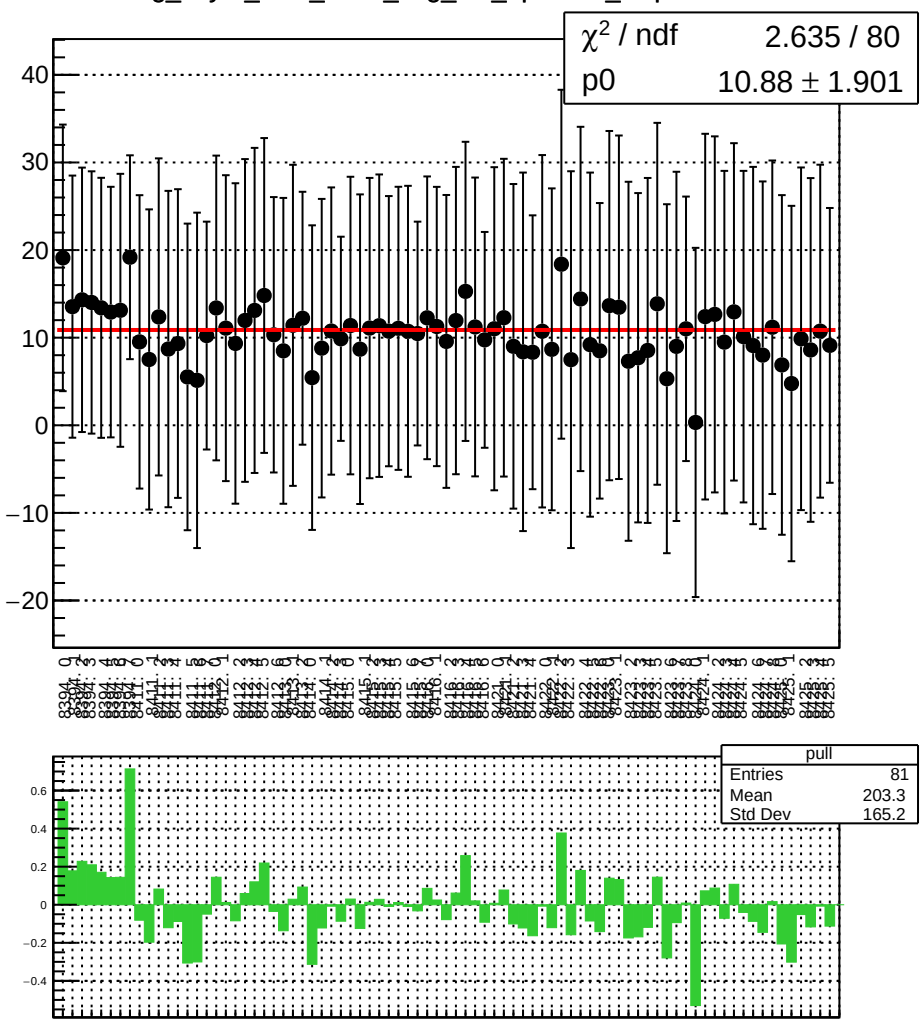

pull1D
Entries 81
Mean 0.003584
Std Dev 0.2223

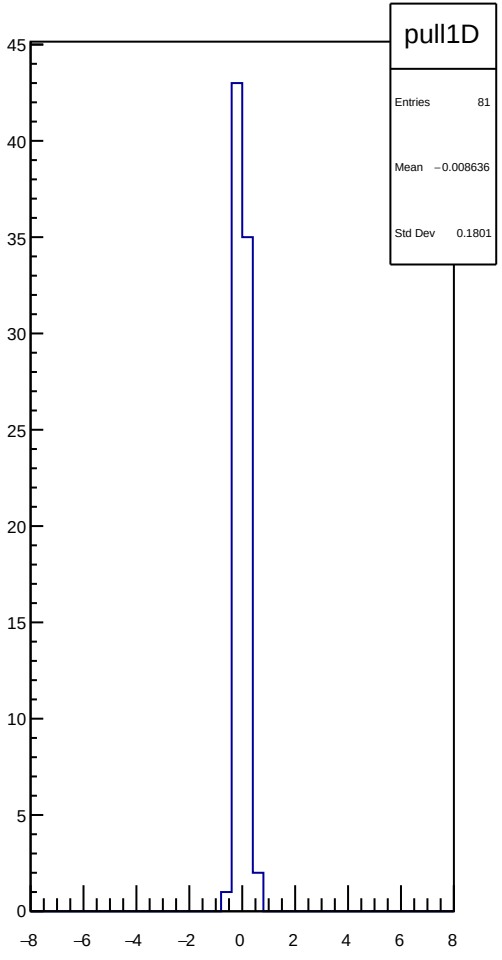

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.799 / 80
p0 19.99 ± 1.813
pull
Entries 81
Mean 215.2
Std Dev 179.6

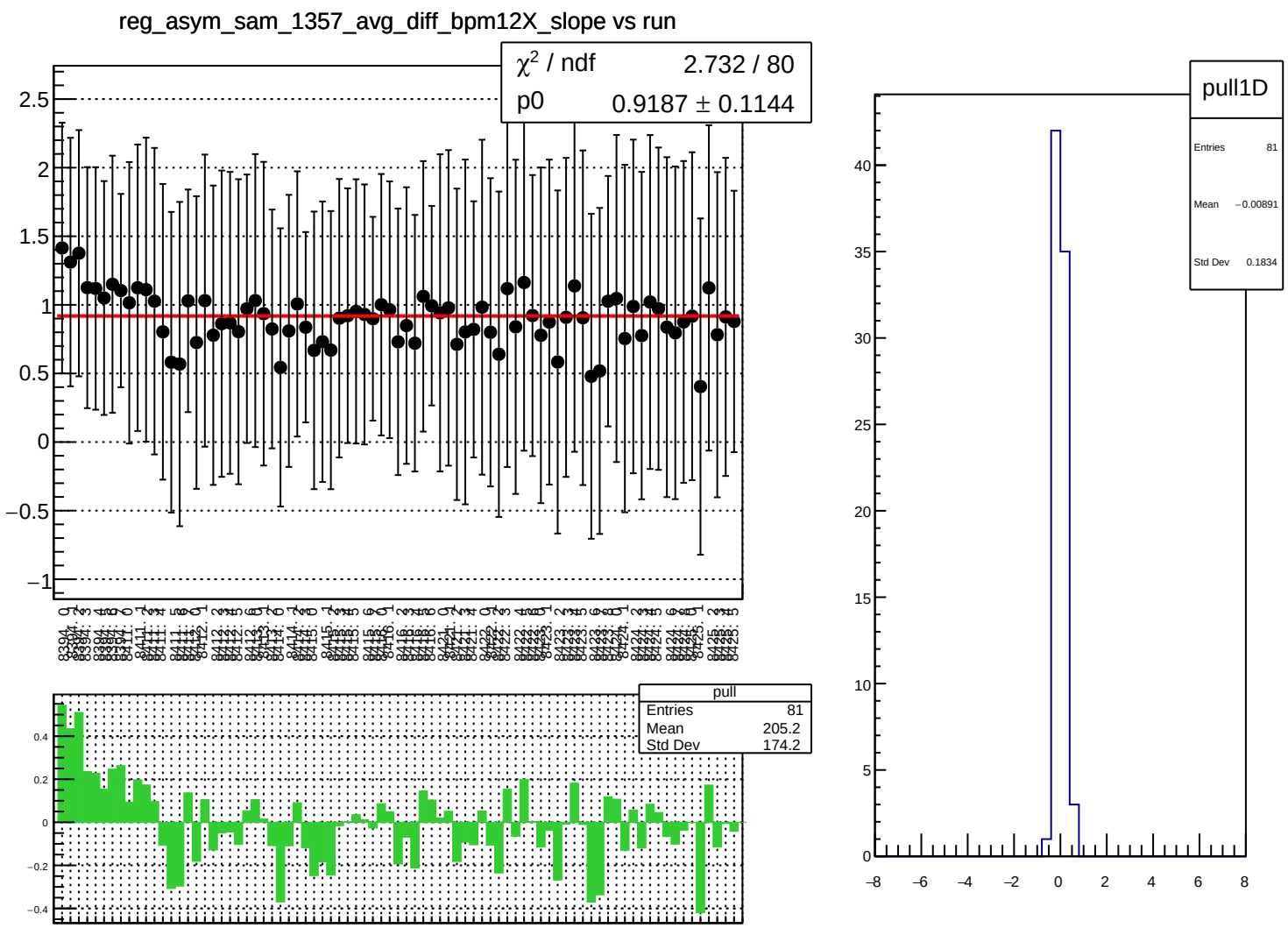

pull1D
Entries 81
Mean 0.006353
Std Dev 0.1858

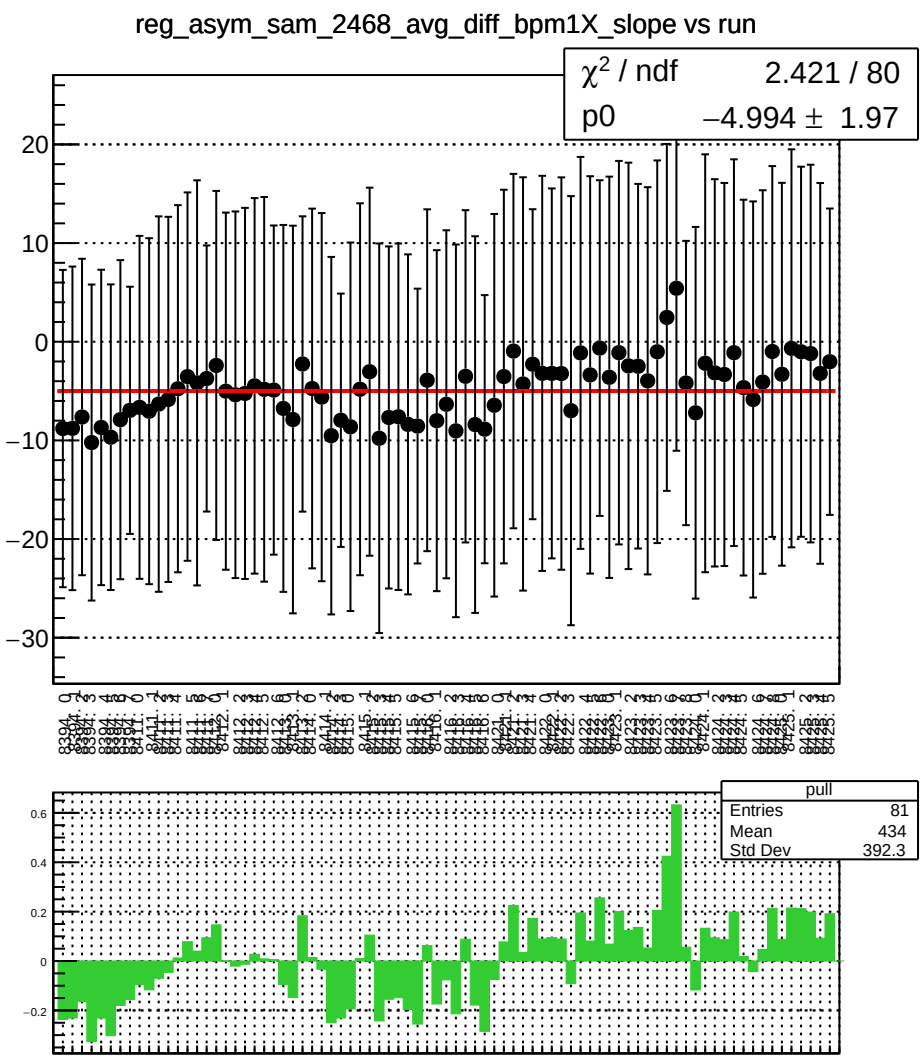

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.133 / 80
p0 −35.97 ± 1.081
pull
Entries 81
Mean 500.2
Std Dev 456.8

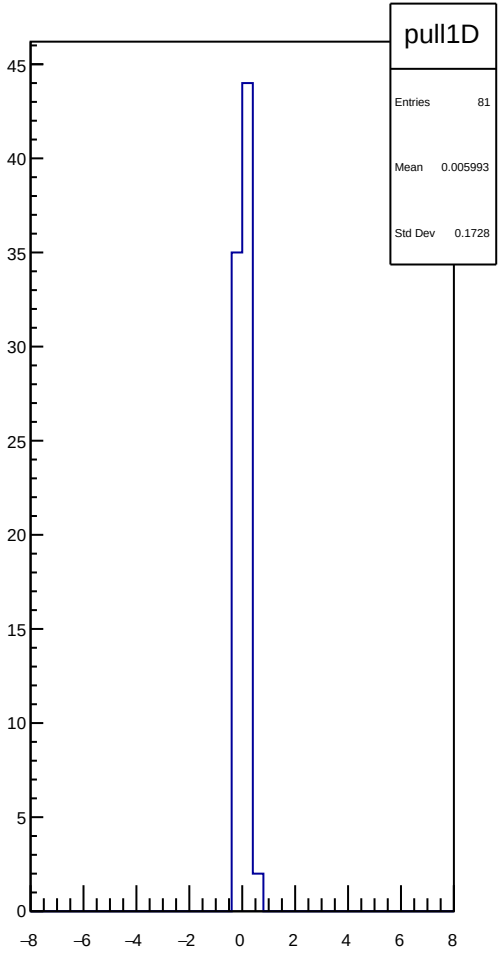

pull1D
Entries 81
Mean −0.003719
Std Dev 0.1966

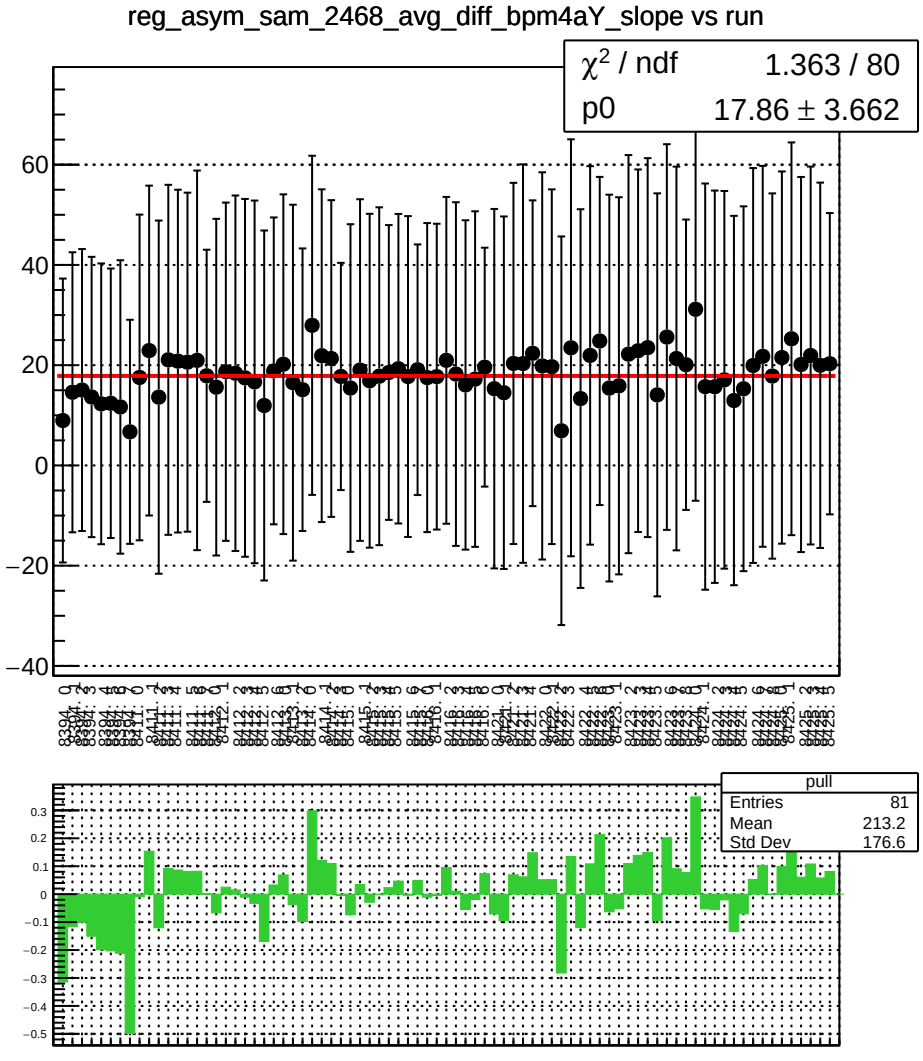

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.635 / 80
p0 10.88 ± 1.901
pull
Entries 81
Mean 203.3
Std Dev 165.2

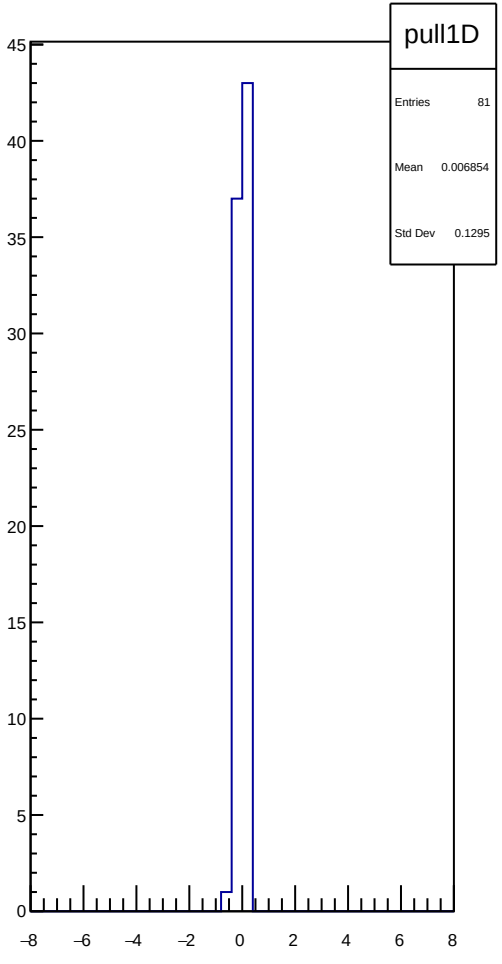

pull1D
Entries 81
Mean −0.008636
Std Dev 0.1801

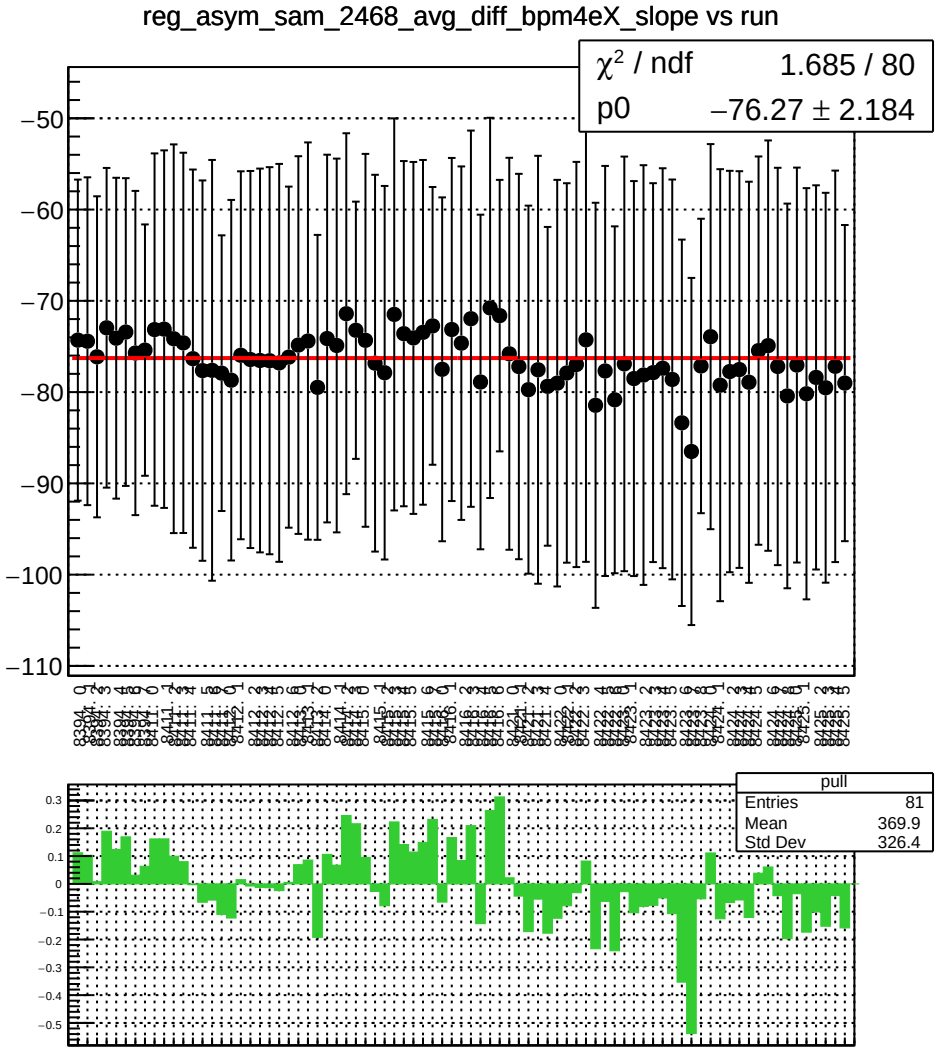

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 2.732 / 80
p0 0.9187 ± 0.1144
pull
Entries 81
Mean 205.2
Std Dev 174.2
pull1D
Entries 81
Mean −0.00891
Std Dev 0.1834

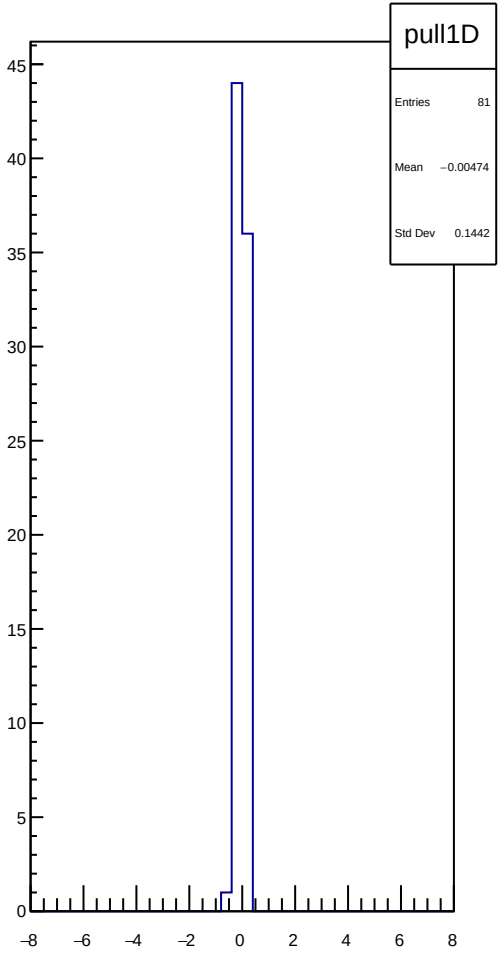

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 2.421 / 80
p0 −4.994 ± 1.97
pull
Entries 81
Mean 434
Std Dev 392.3

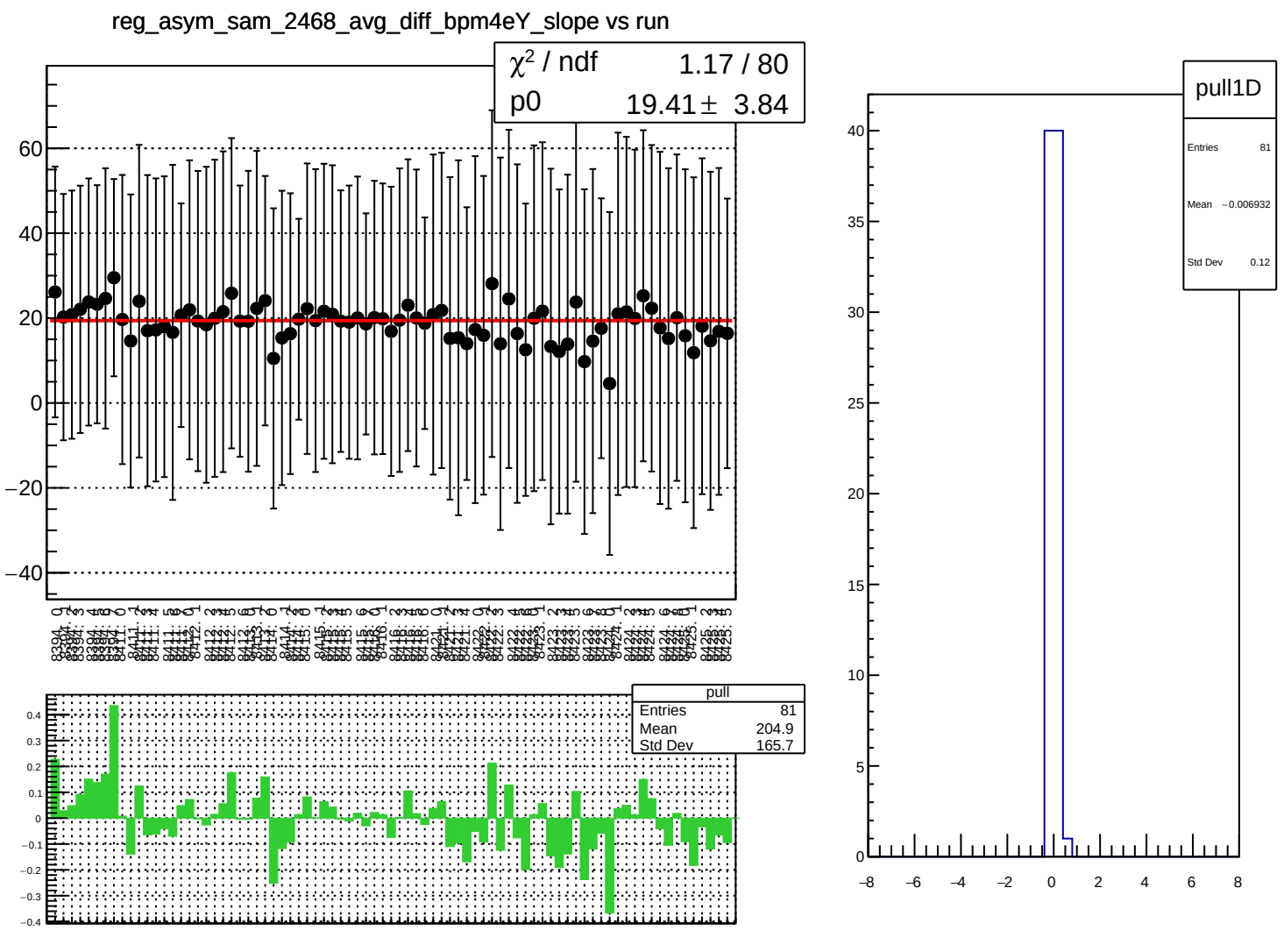

pull1D
Entries 81
Mean 0.005993
Std Dev 0.1728

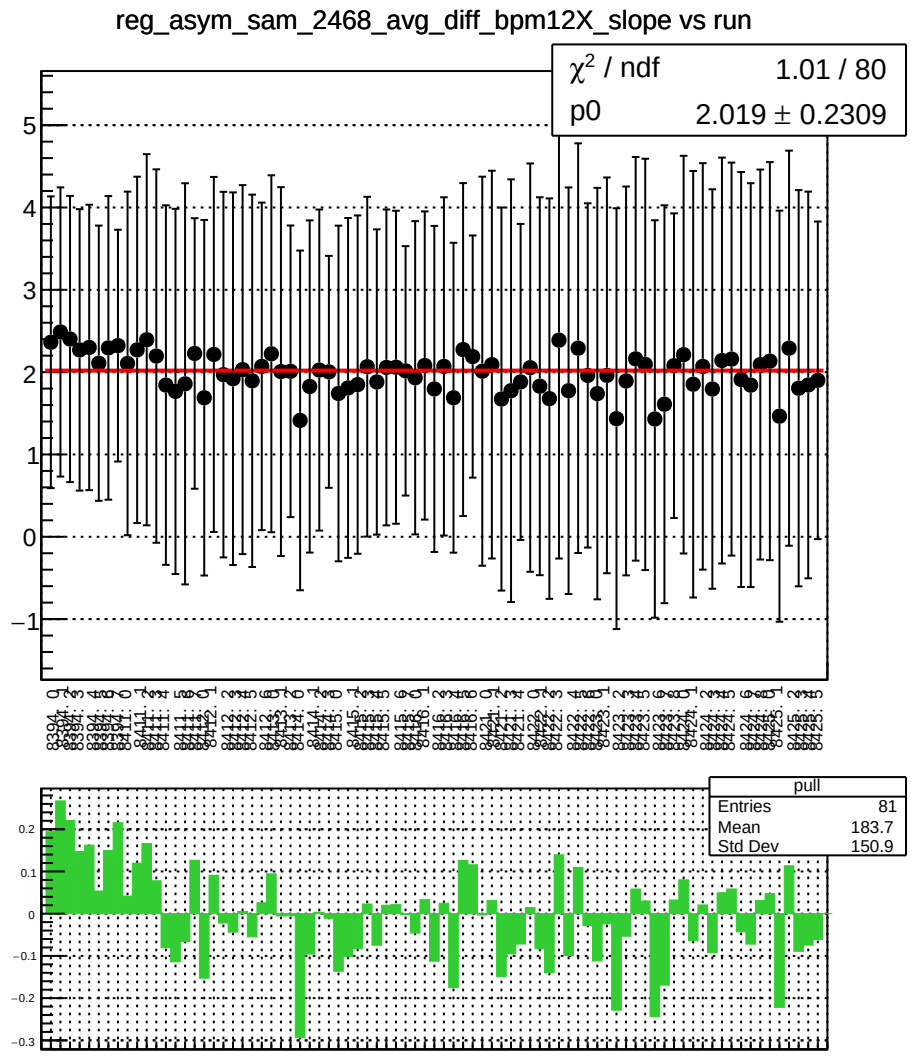

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.363 / 80
p0 17.86 ± 3.662
pull
Entries 81
Mean 213.2
Std Dev 176.6

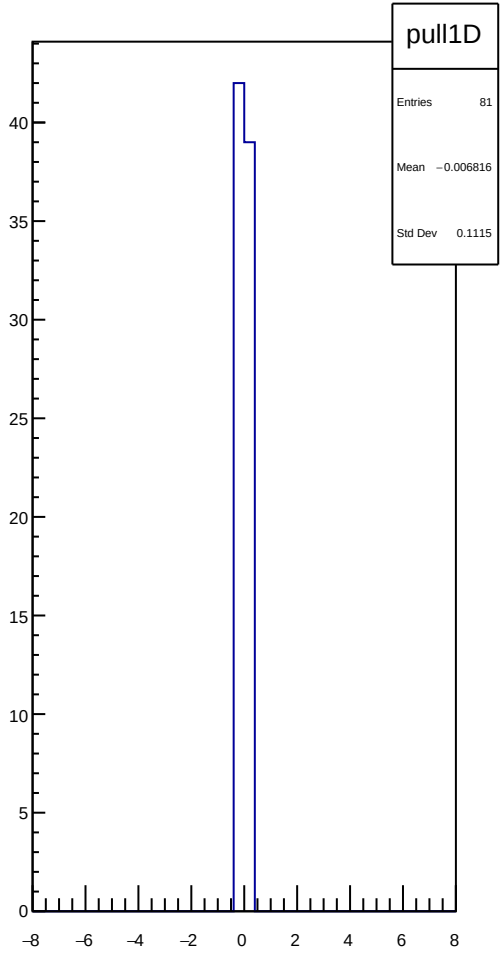

pull1D
Entries 81
Mean 0.006854
Std Dev 0.1295

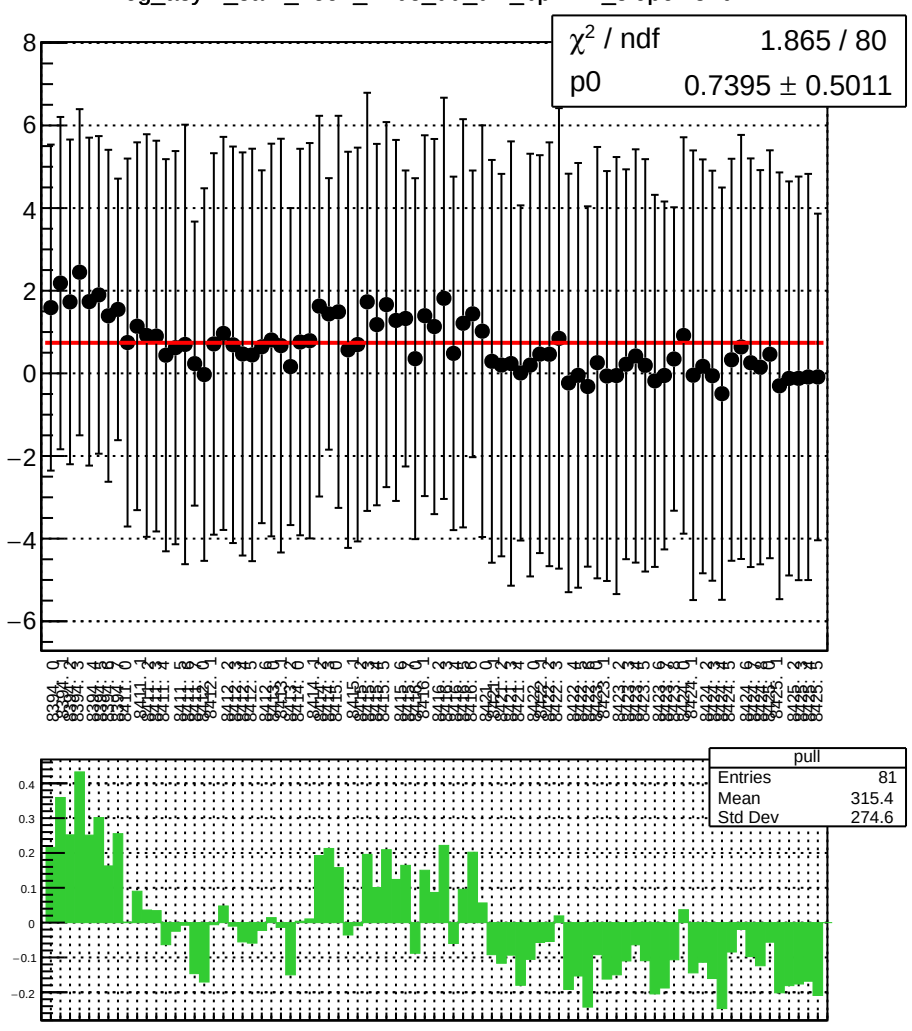

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.685 / 80
p0 −76.27 ± 2.184
pull
Entries 81
Mean 369.9
Std Dev 326.4

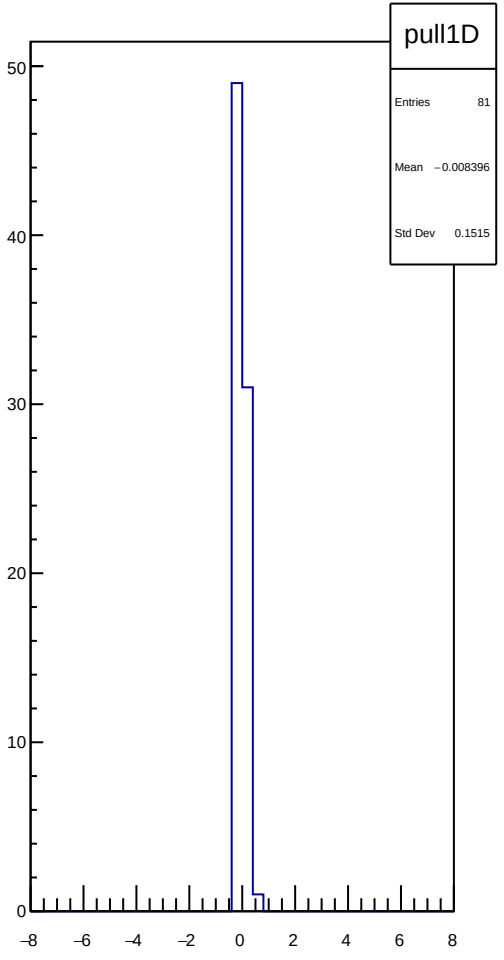

pull1D
Entries 81
Mean −0.00474
Std Dev 0.1442

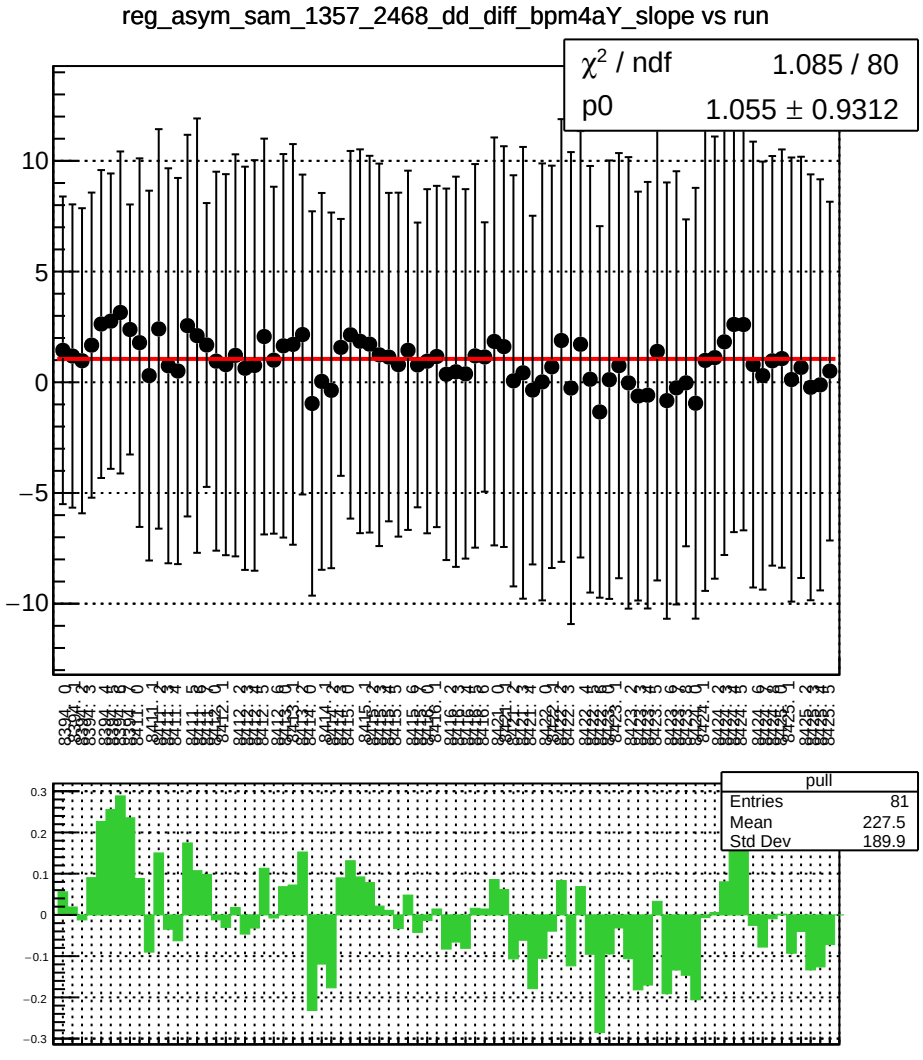

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.17 / 80
p0 19.41 ± 3.84
pull
Entries 81
Mean 204.9
Std Dev 165.7
pull1D
Entries 81
Mean −0.006932
Std Dev 0.12

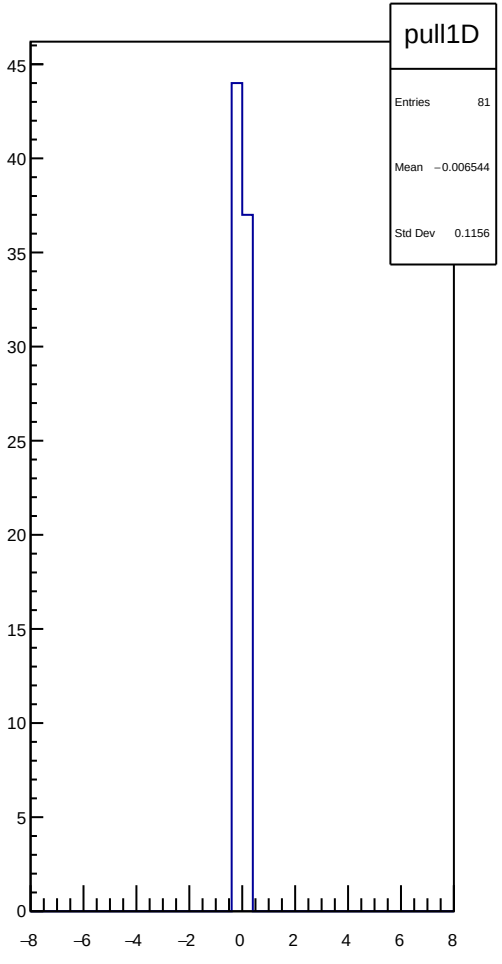

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1.01 / 80
p0 2.019 ± 0.2309
pull
Entries 81
Mean 183.7
Std Dev 150.9

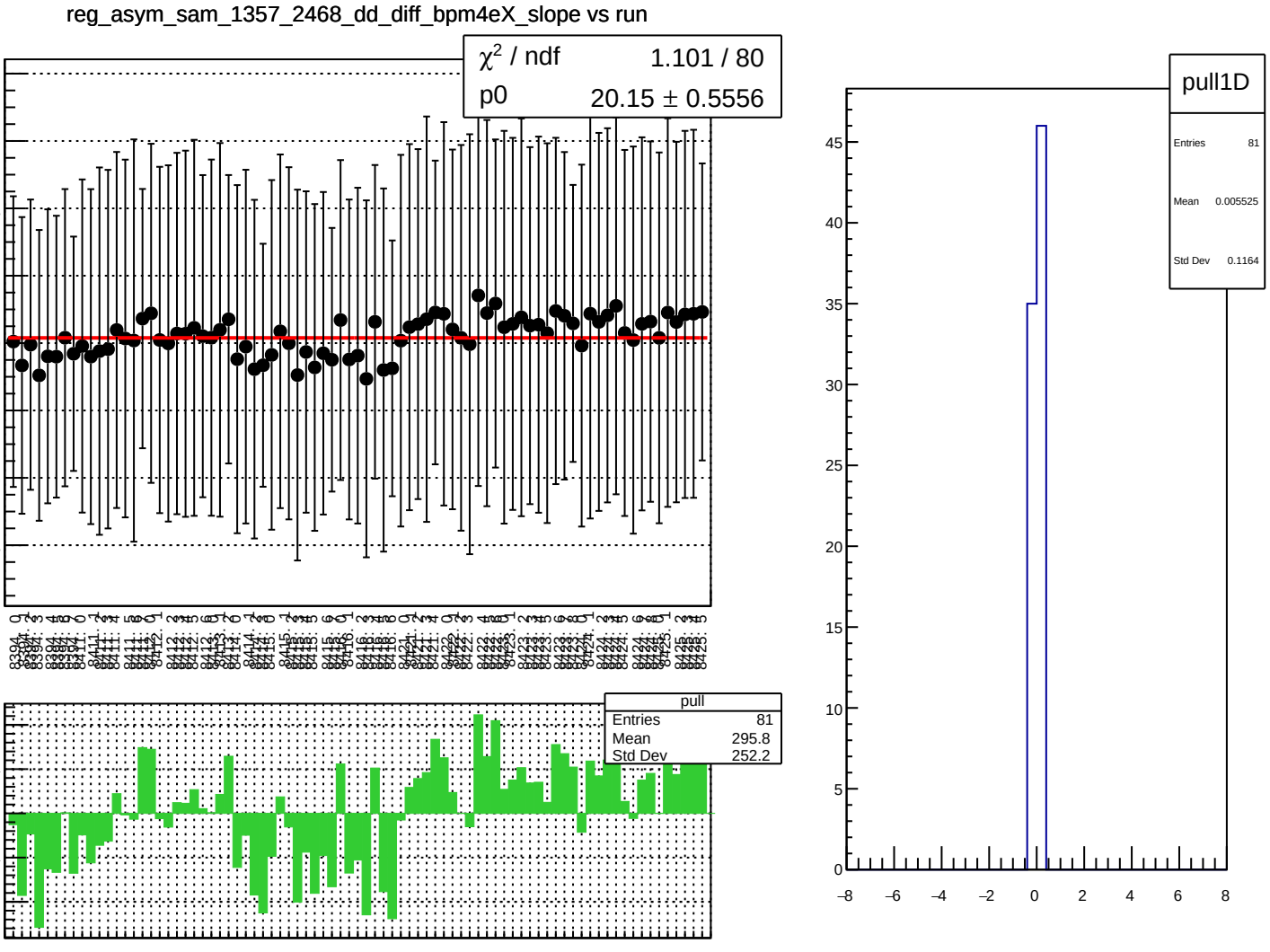

pull1D
Entries 81
Mean −0.006816
Std Dev 0.1115

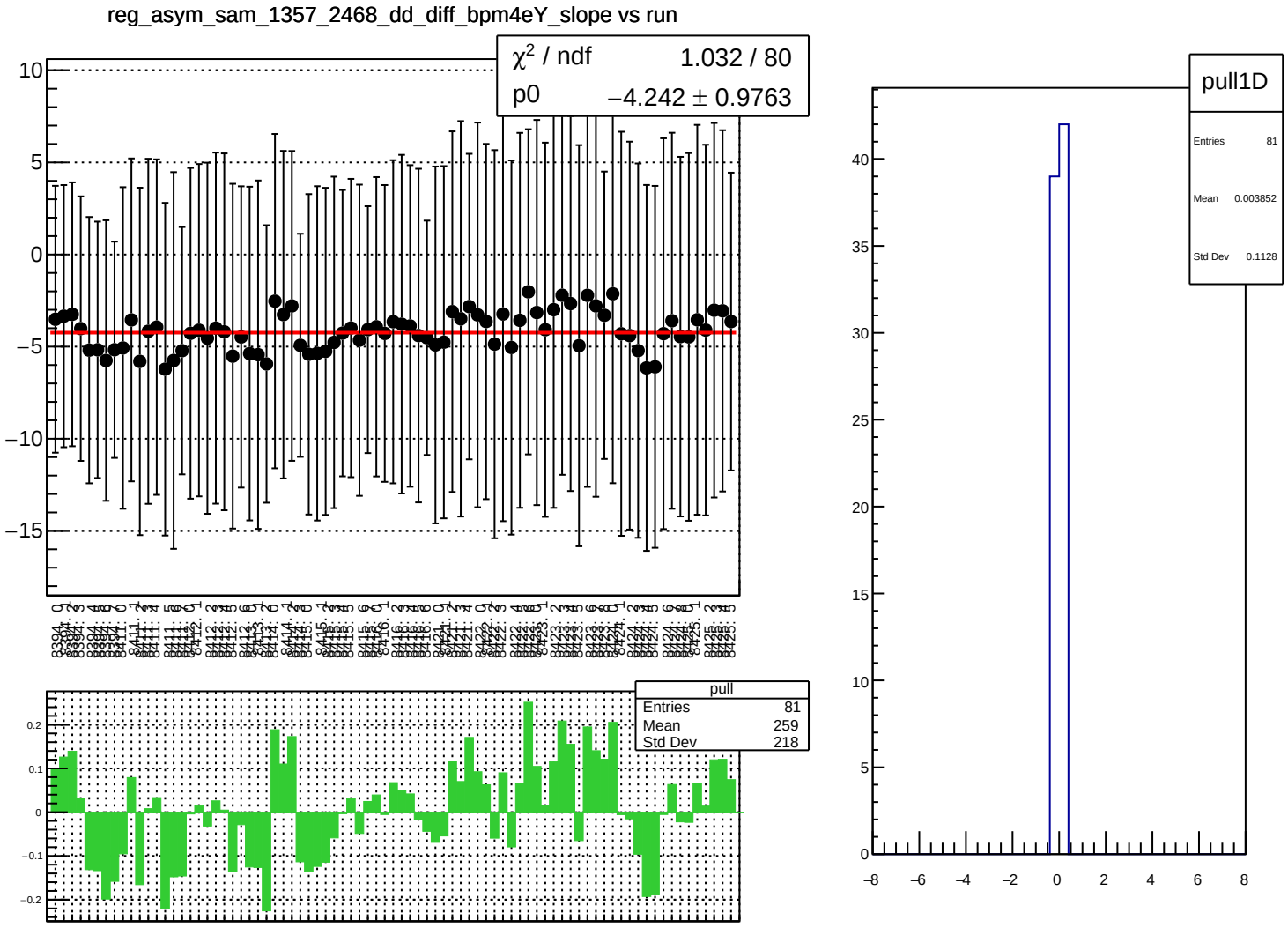

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 1.865 / 80
p0 0.7395 ± 0.5011
pull
Entries 81
Mean 315.4
Std Dev 274.6

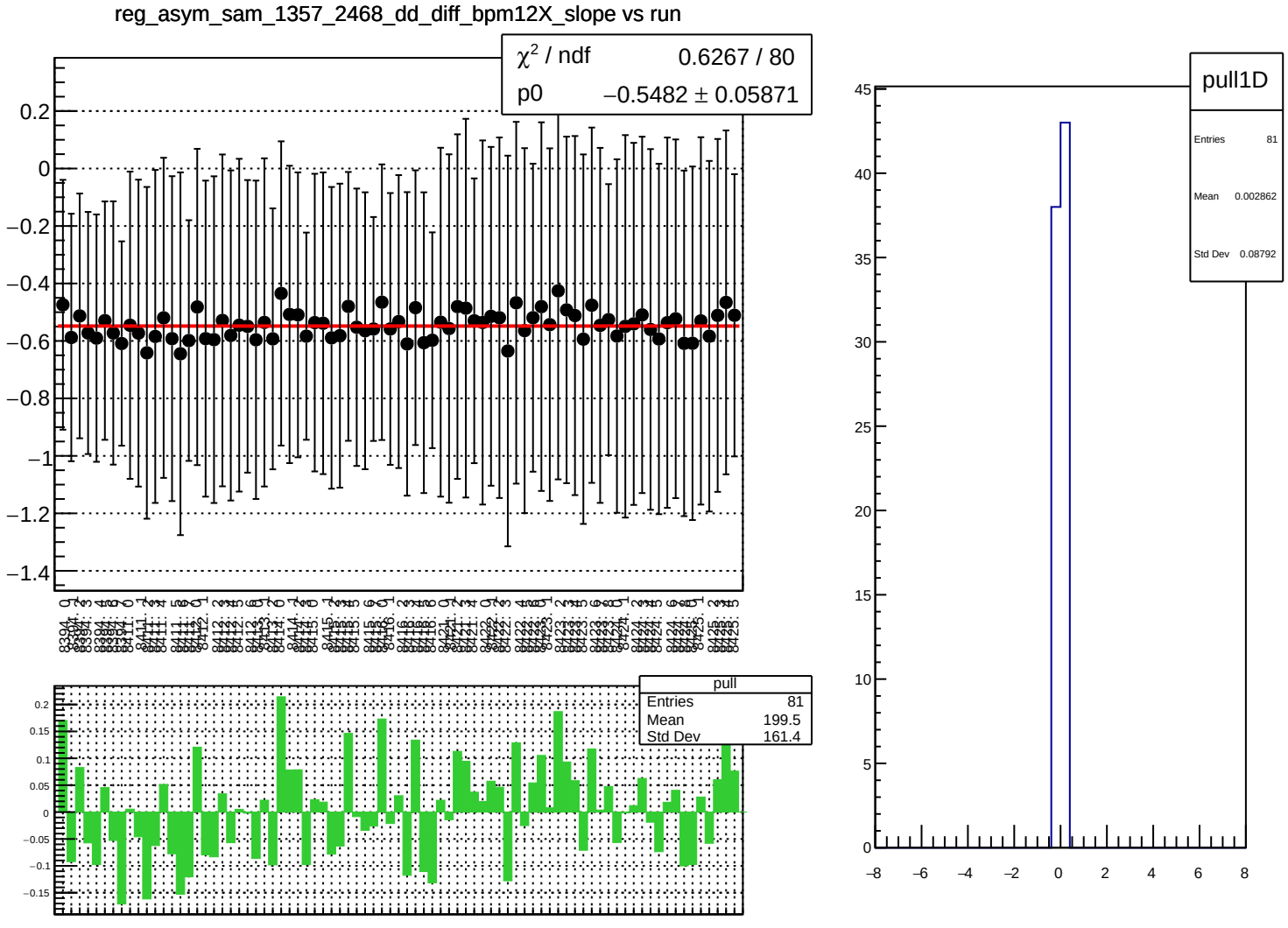

pull1D
Entries 81
Mean −0.008396
Std Dev 0.1515

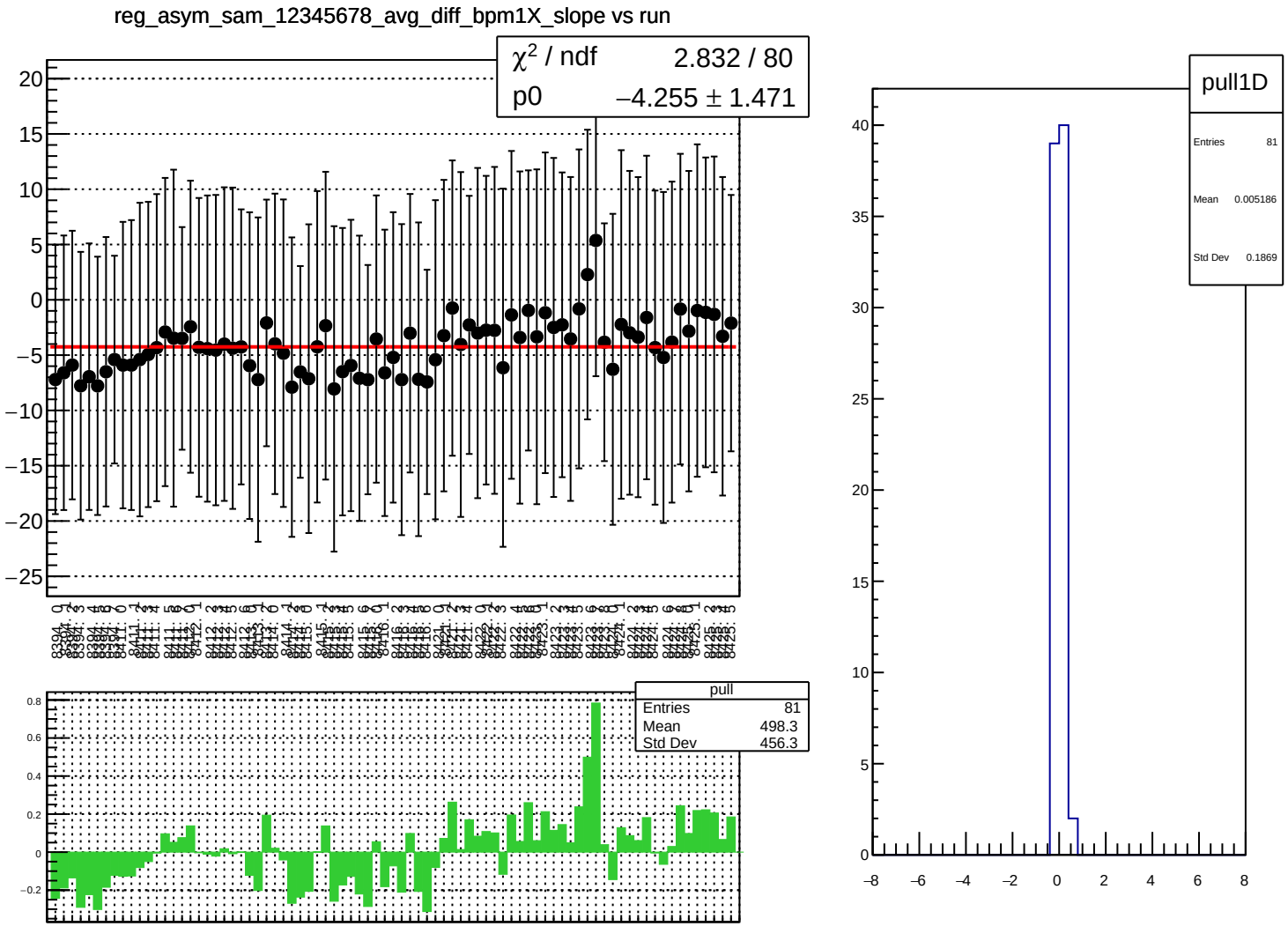

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.085 / 80
p0 1.055 ± 0.9312
pull
Entries 81
Mean 227.5
Std Dev 189.9

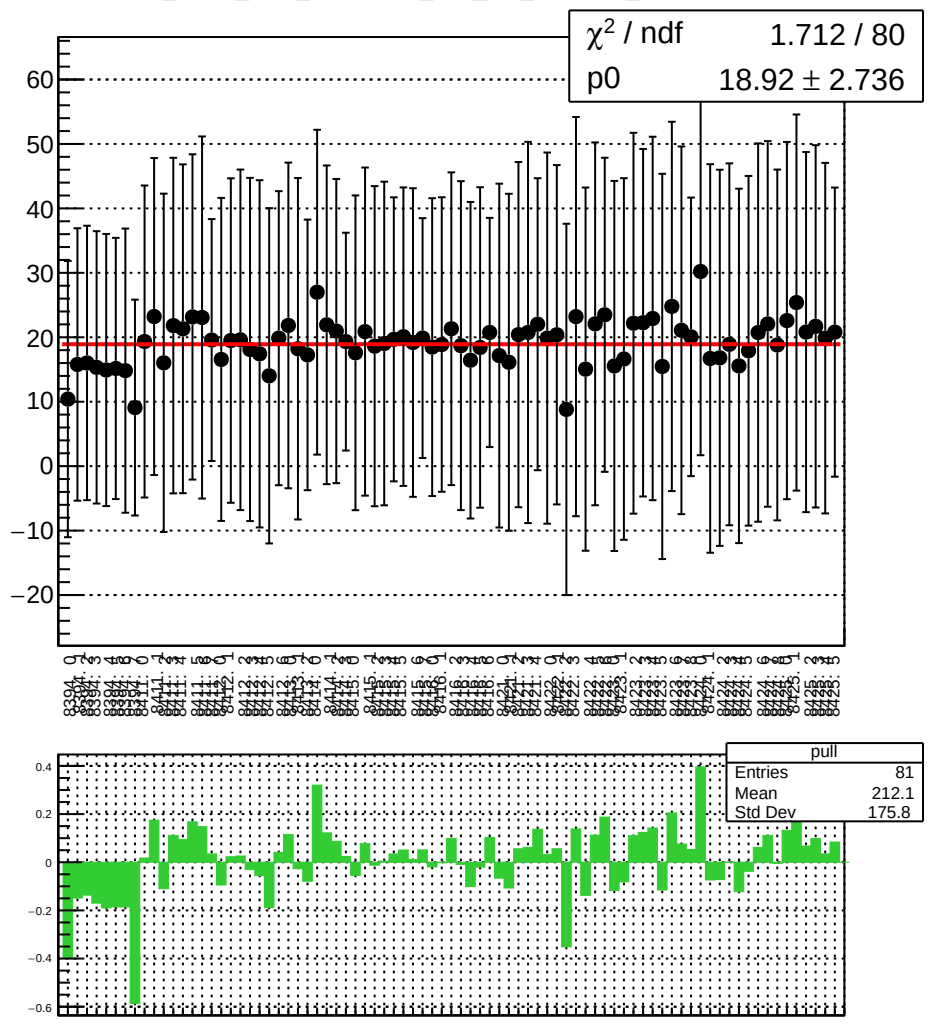

pull1D
Entries 81
Mean −0.006544
Std Dev 0.1156

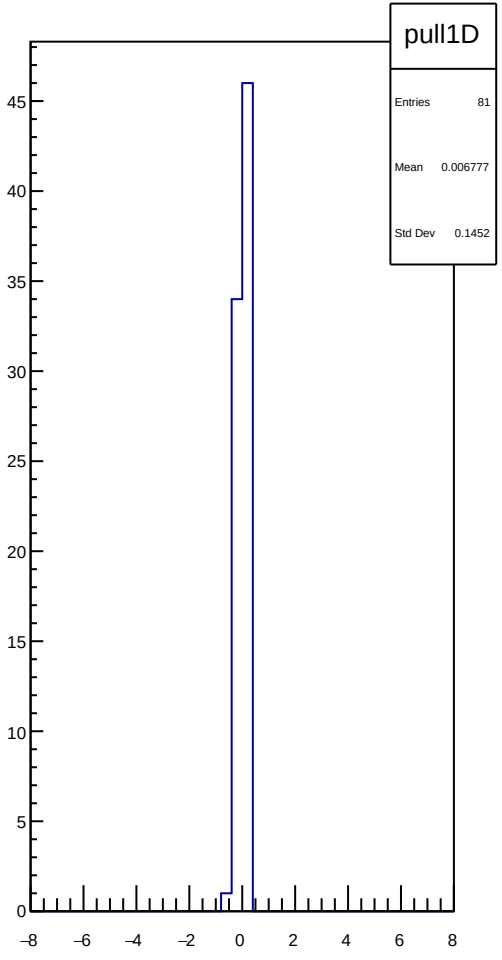

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.101 / 80
p0 20.15 ± 0.5556
pull
Entries 81
Mean 295.8
Std Dev 252.2
pull1D
Entries 81
Mean 0.005525
Std Dev 0.1164

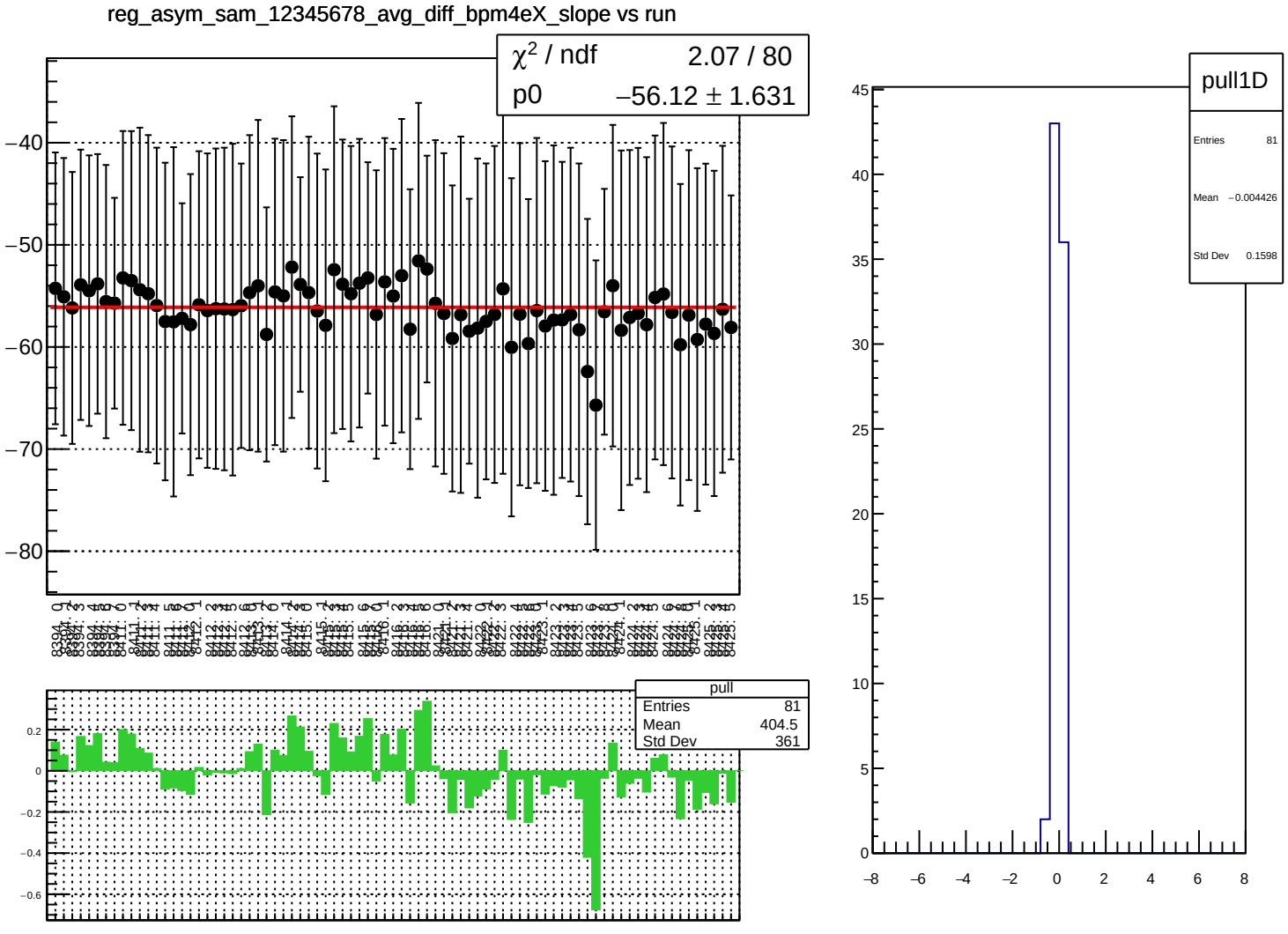

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.032 / 80
p0 −4.242 ± 0.9763
pull
Entries 81
Mean 259
Std Dev 218
pull1D
Entries 81
Mean 0.003852
Std Dev 0.1128

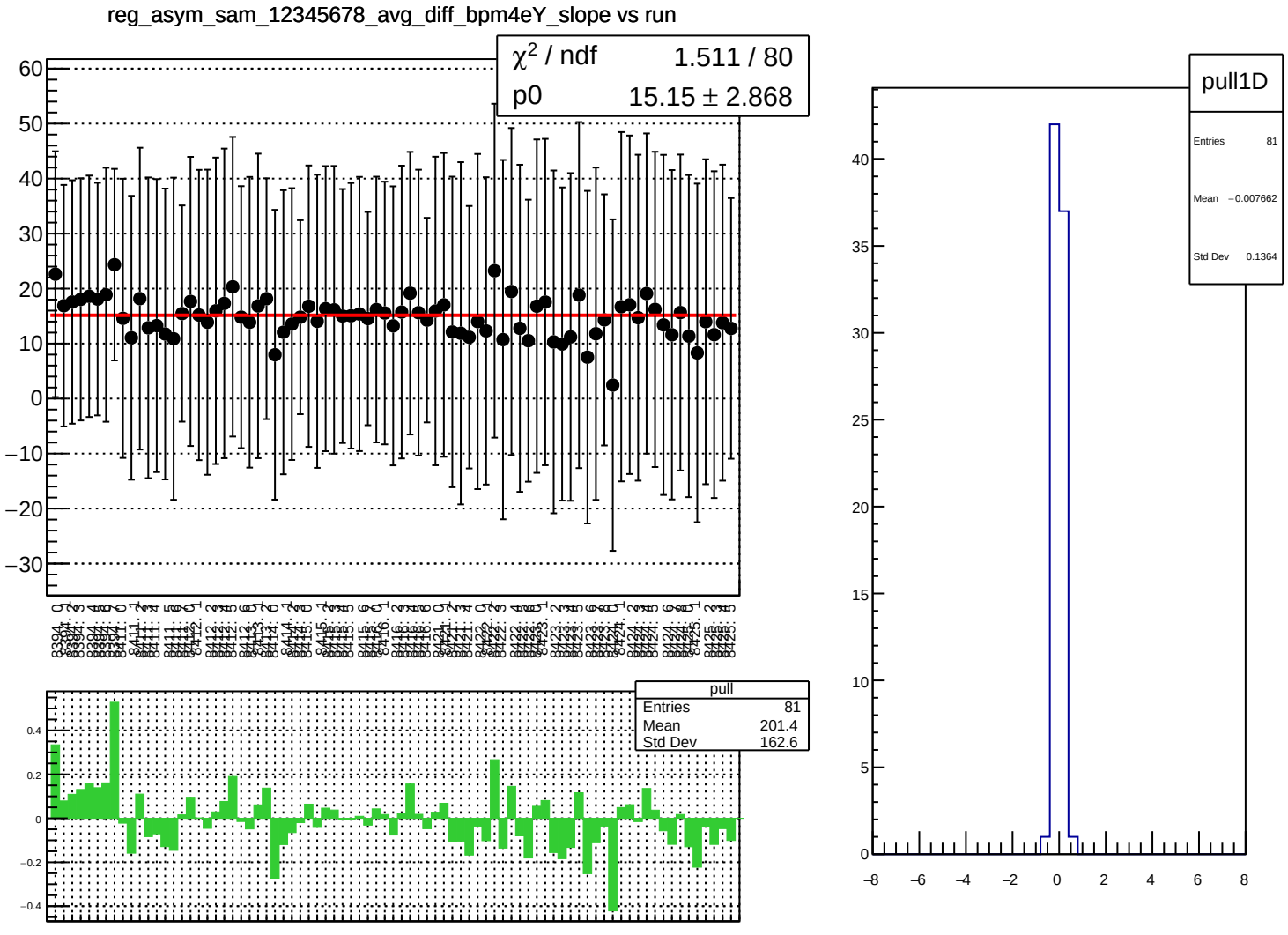

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6267 / 80
p0 −0.5482 ± 0.05871
pull
Entries 81
Mean 199.5
Std Dev 161.4
pull1D
Entries 81
Mean 0.002862
Std Dev 0.08792

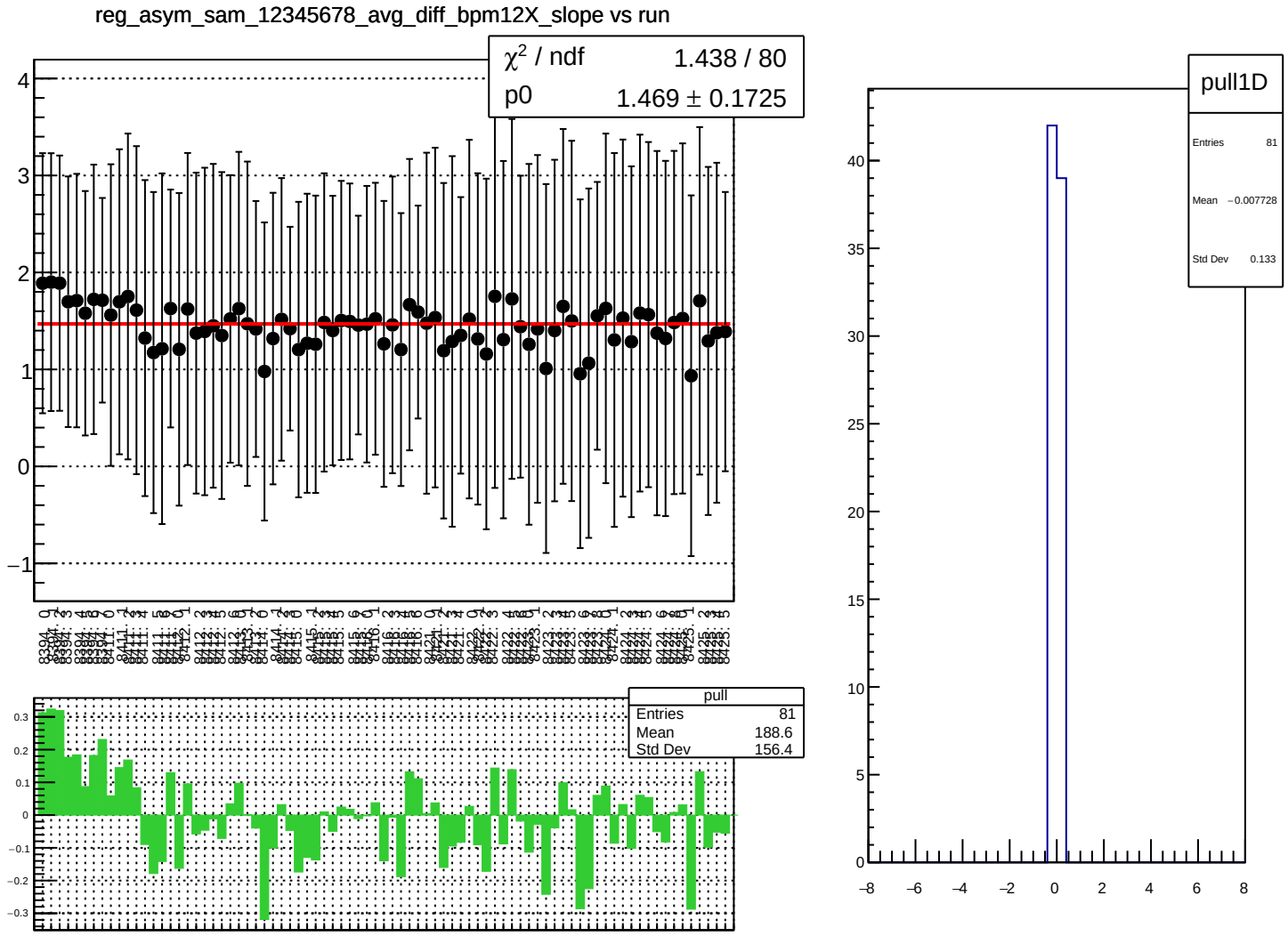

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 2.832 / 80
p0 −4.255 ± 1.471
pull
Entries 81
Mean 498.3
Std Dev 456.3
pull1D
Entries 81
Mean 0.005186
Std Dev 0.1869

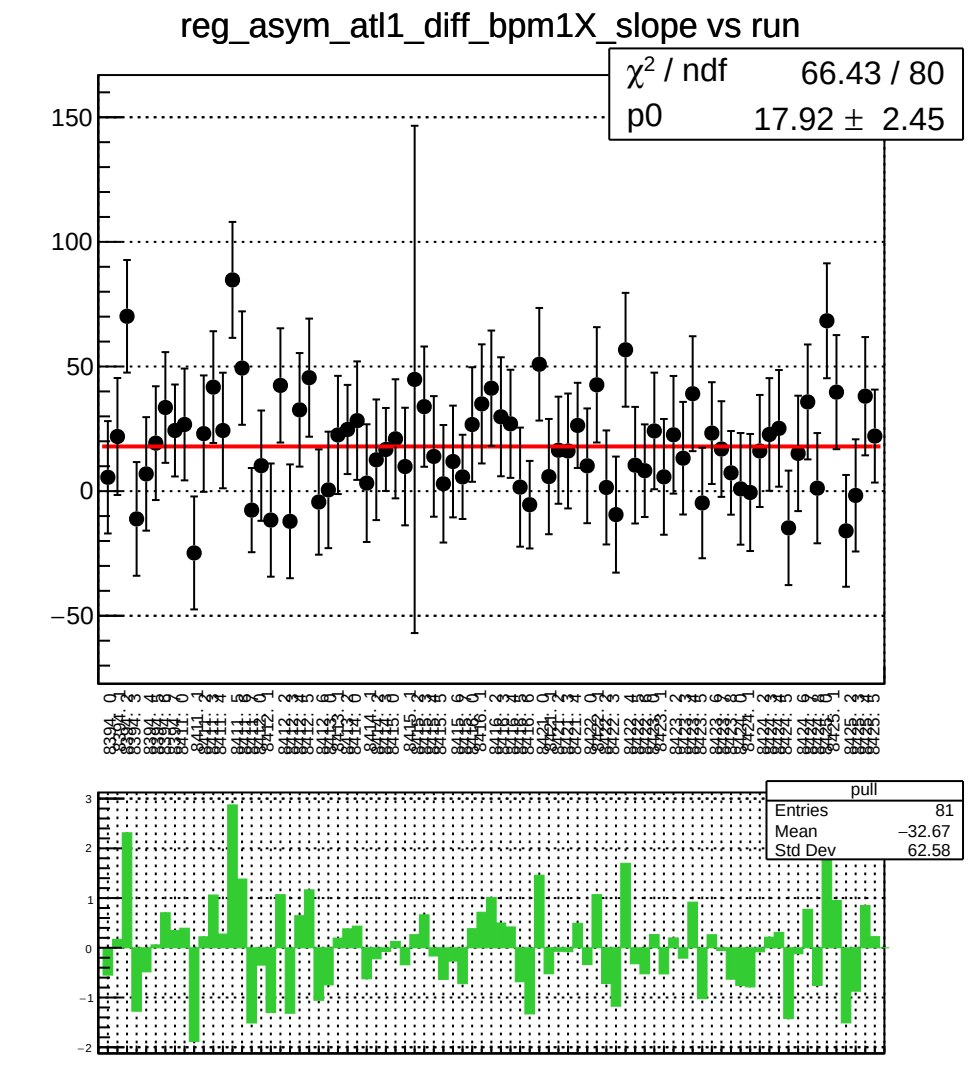

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.712 / 80
p0 18.92 ± 2.736
pull
Entries 81
Mean 212.1
Std Dev 175.8

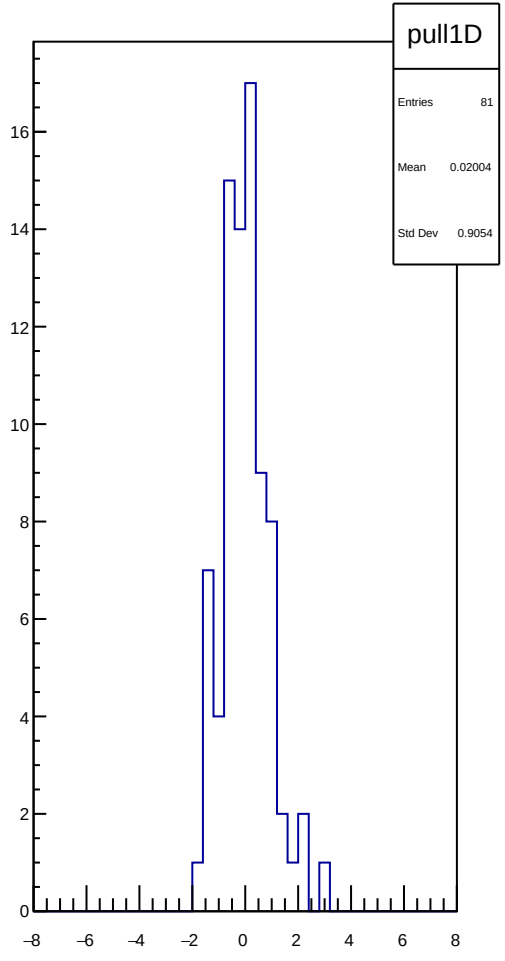

pull1D
Entries 81
Mean 0.006777
Std Dev 0.1452

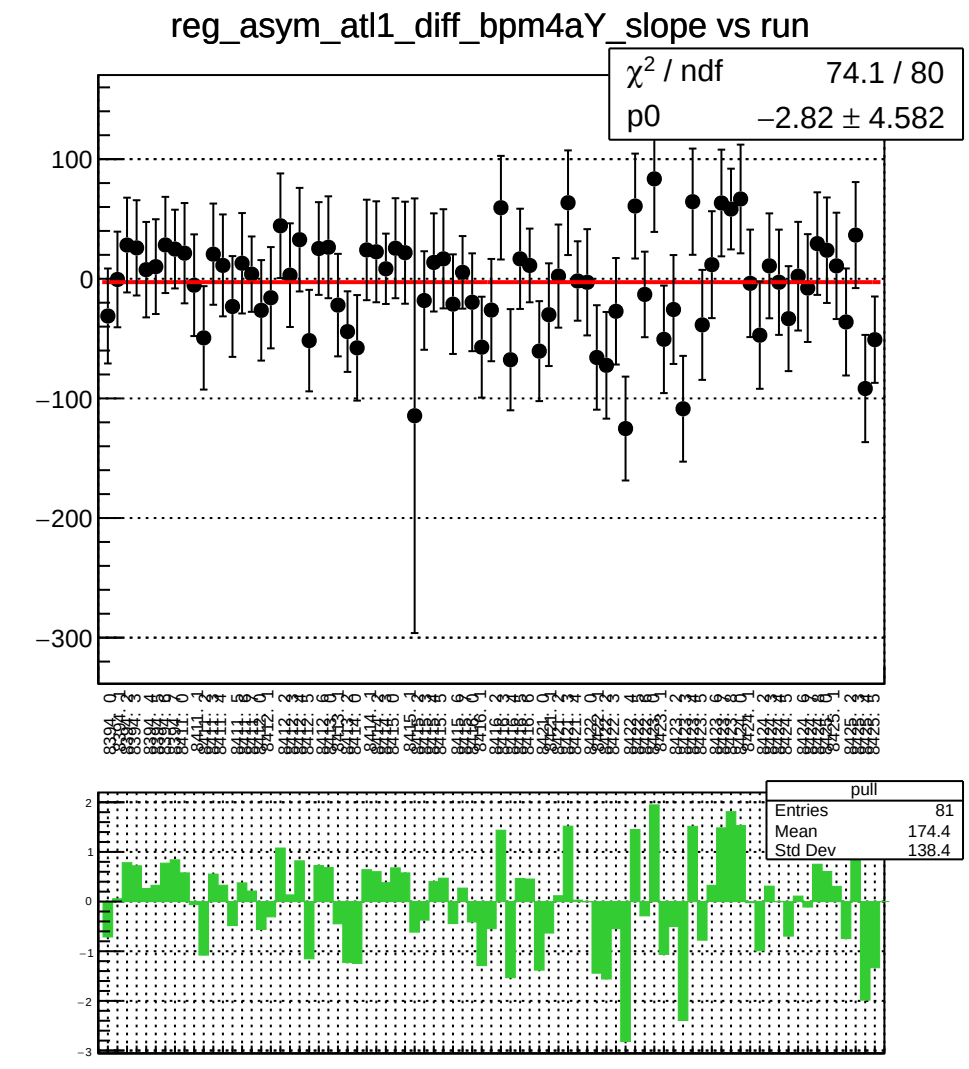

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.07 / 80
p0 −56.12 ± 1.631
−40
−50
−60
−70
−80
pull
Entries 81
Mean 404.5
Std Dev 361
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 81
Mean −0.004426
Std Dev 0.1598
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

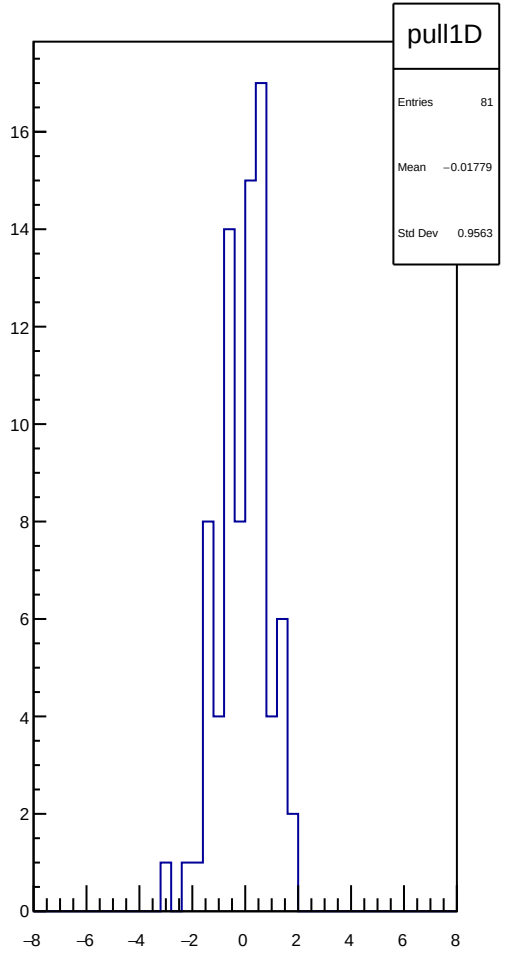

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.511 / 80
p0 15.15 ± 2.868
pull
Entries 81
Mean 201.4
Std Dev 162.6
pull1D
Entries 81
Mean −0.007662
Std Dev 0.1364

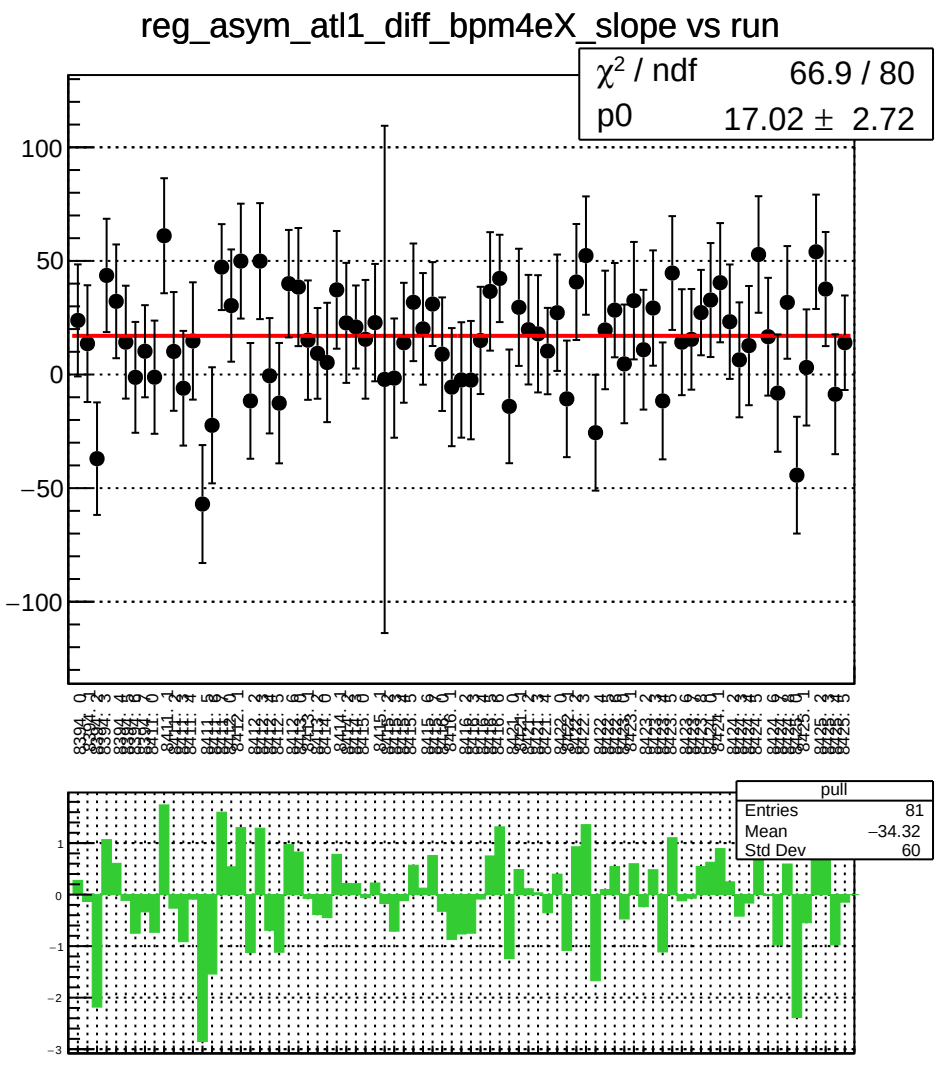

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 1.438 / 80
p0 1.469 ± 0.1725
pull
Entries 81
Mean 188.6
Std Dev 156.4
pull1D
Entries 81
Mean −0.007728
Std Dev 0.133

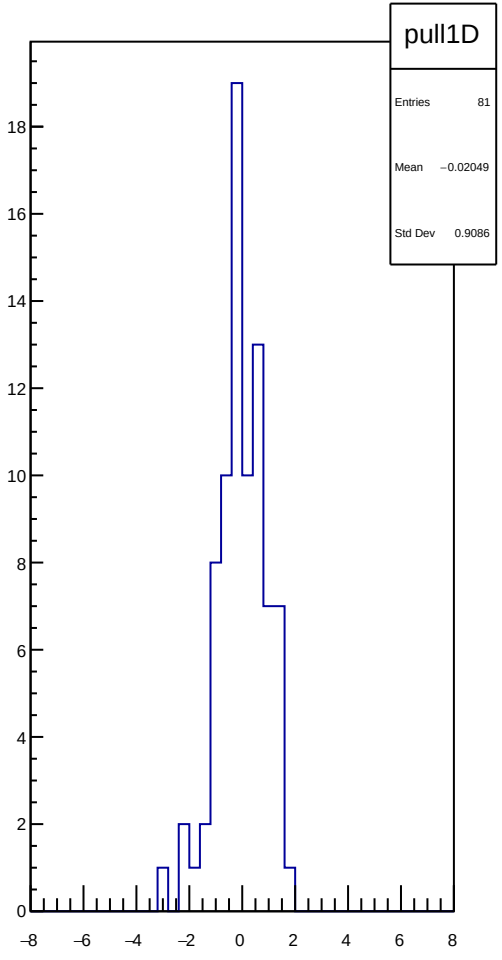

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 66.43 / 80
p0 17.92 ± 2.45
150
100
50
0
−50
pull
Entries 81
Mean −32.67
Std Dev 62.58
3
2
1
0
−1
−2

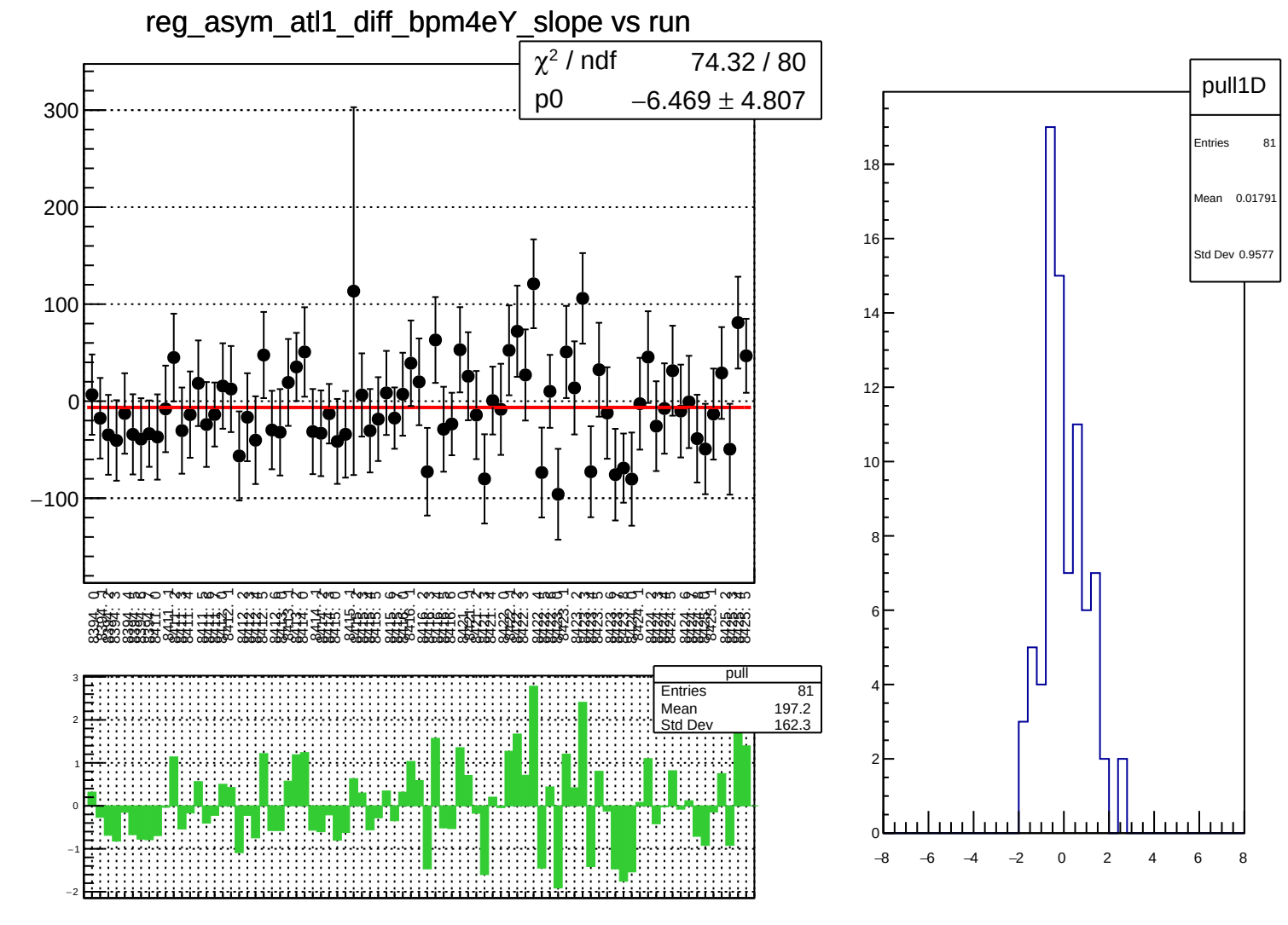

pull1D
Entries 81
Mean 0.02004
Std Dev 0.9054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

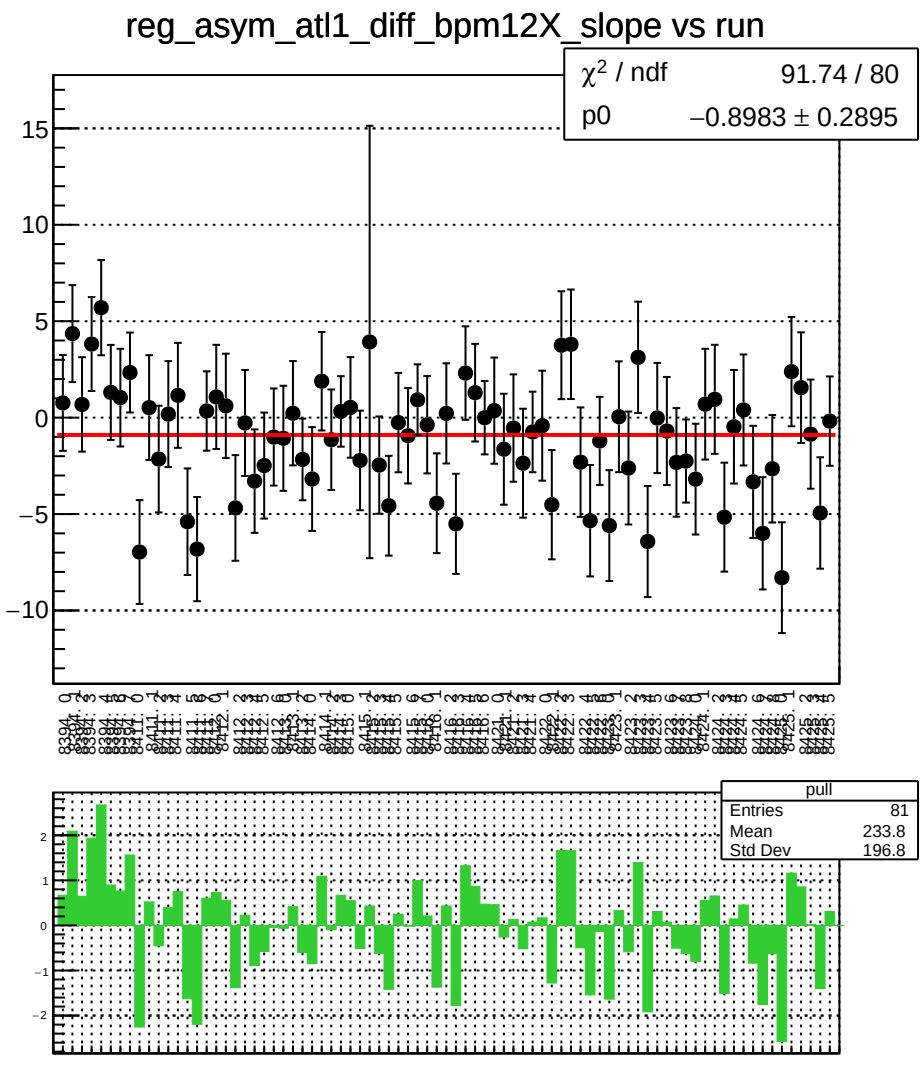

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 74.1 / 80
p0 −2.82 ± 4.582
pull
Entries 81
Mean 174.4
Std Dev 138.4

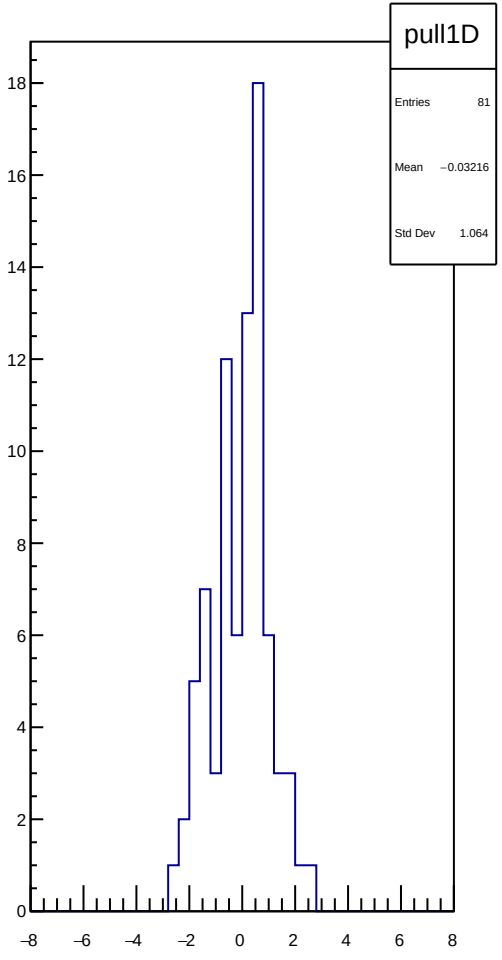

pull1D
Entries 81
Mean −0.01779
Std Dev 0.9563

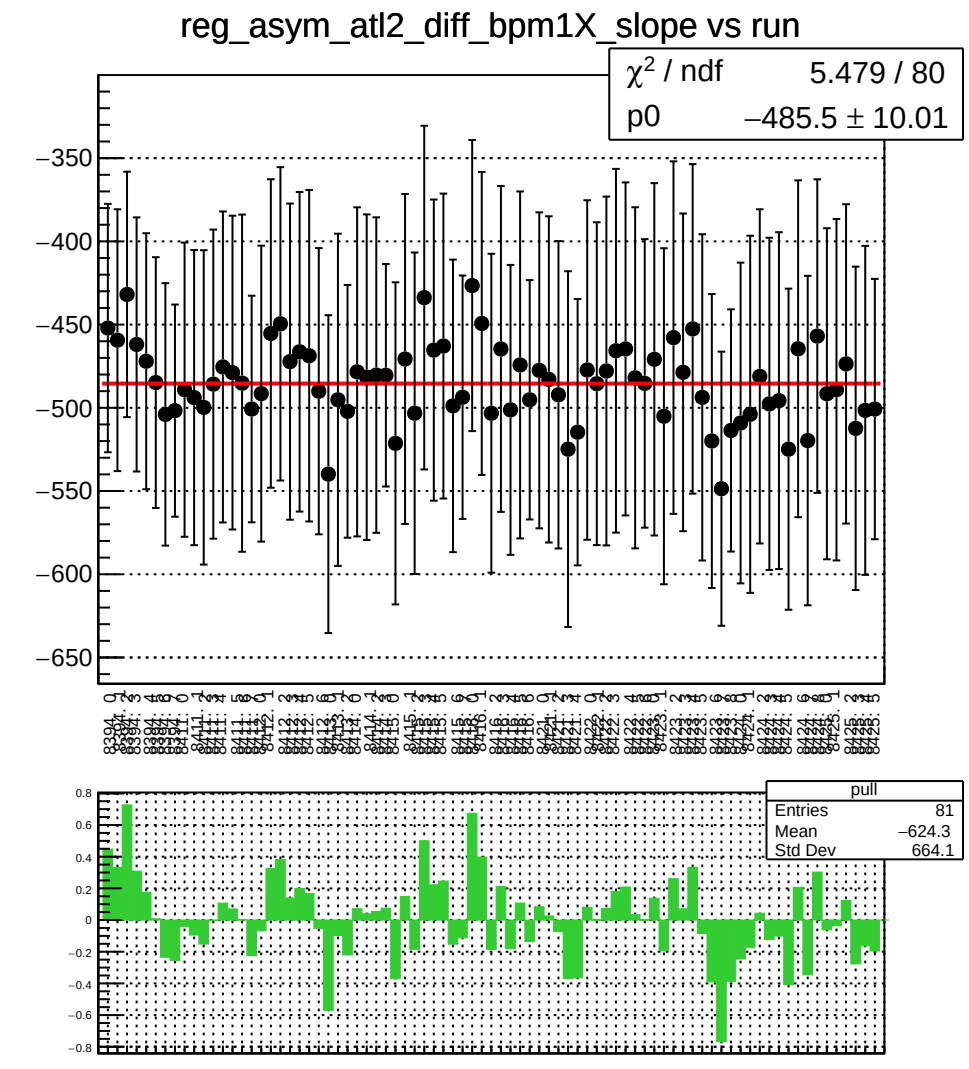

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 66.9 / 80
p0 17.02 ± 2.72
pull
Entries 81
Mean −34.32
Std Dev 60

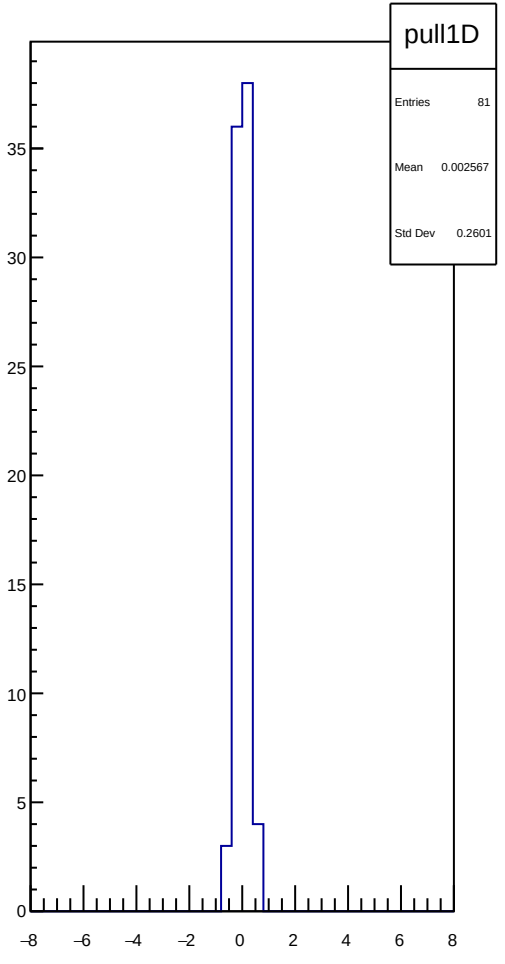

pull1D
Entries 81
Mean −0.02049
Std Dev 0.9086

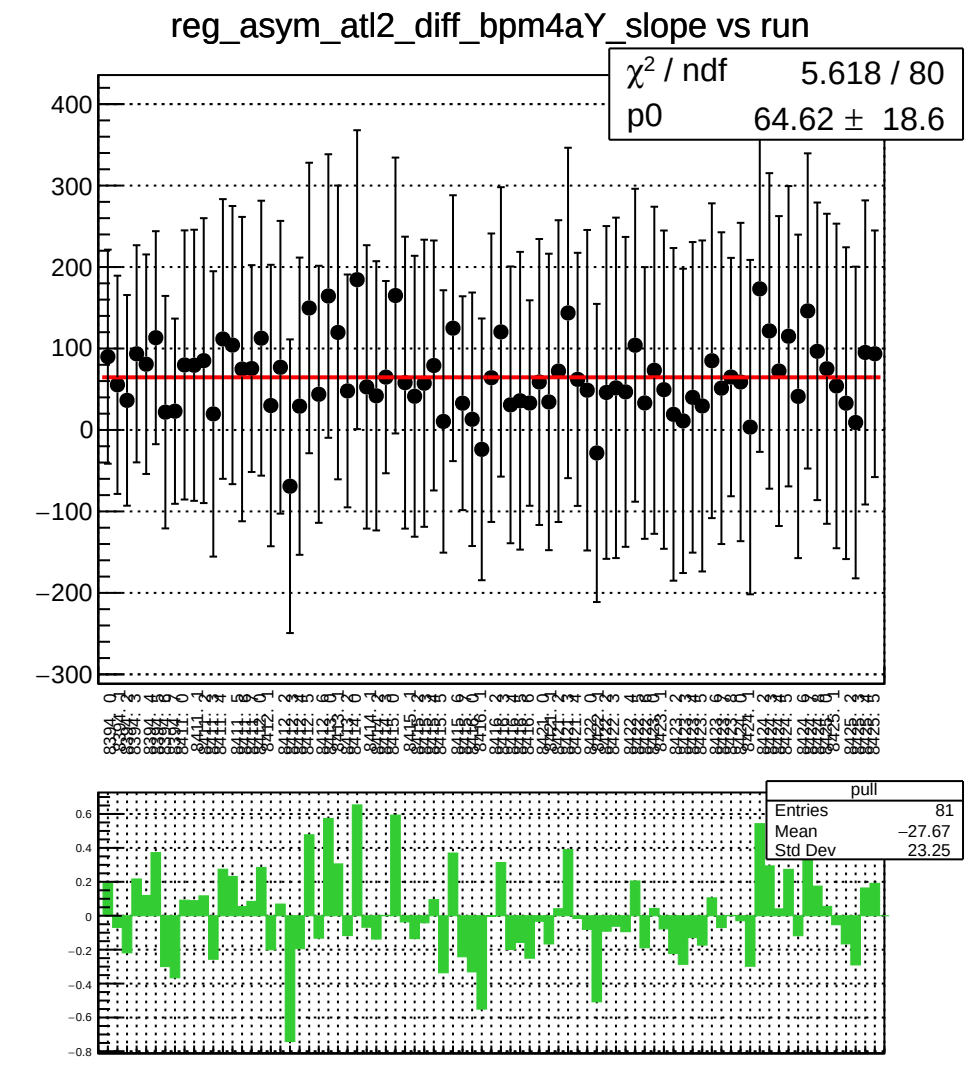

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 74.32 / 80
p0 −6.469 ± 4.807
300
200
100
0
−100
pull
Entries 81
Mean 197.2
Std Dev 162.3
3
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.01791
Std Dev 0.9577
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

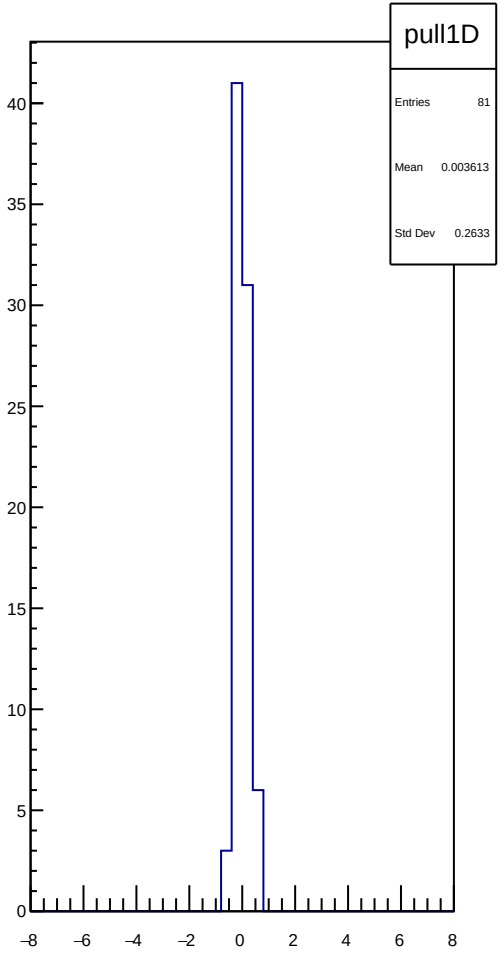

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 91.74 / 80
p0 −0.8983 ± 0.2895
pull
Entries 81
Mean 233.8
Std Dev 196.8

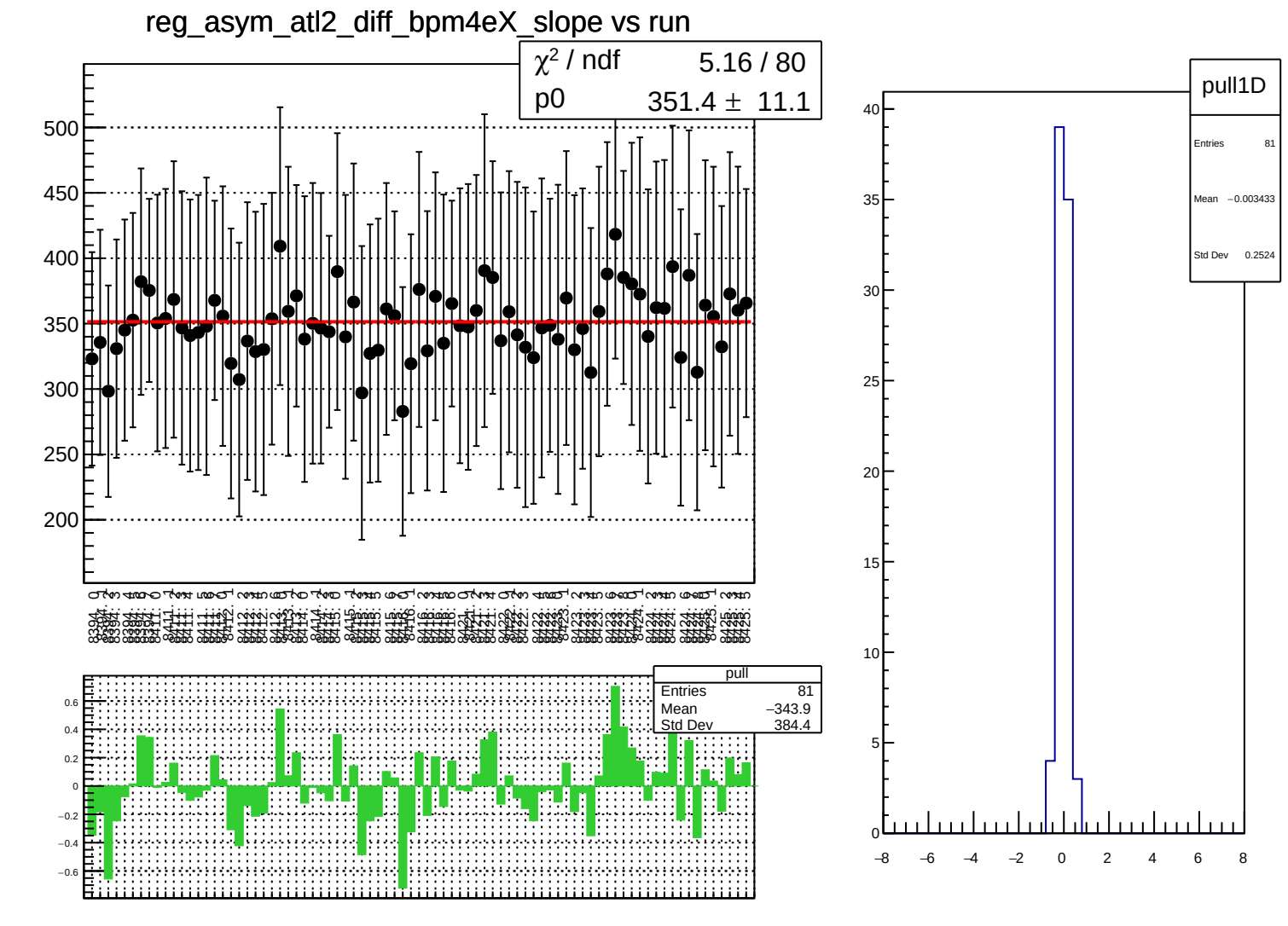

pull1D
Entries 81
Mean −0.03216
Std Dev 1.064

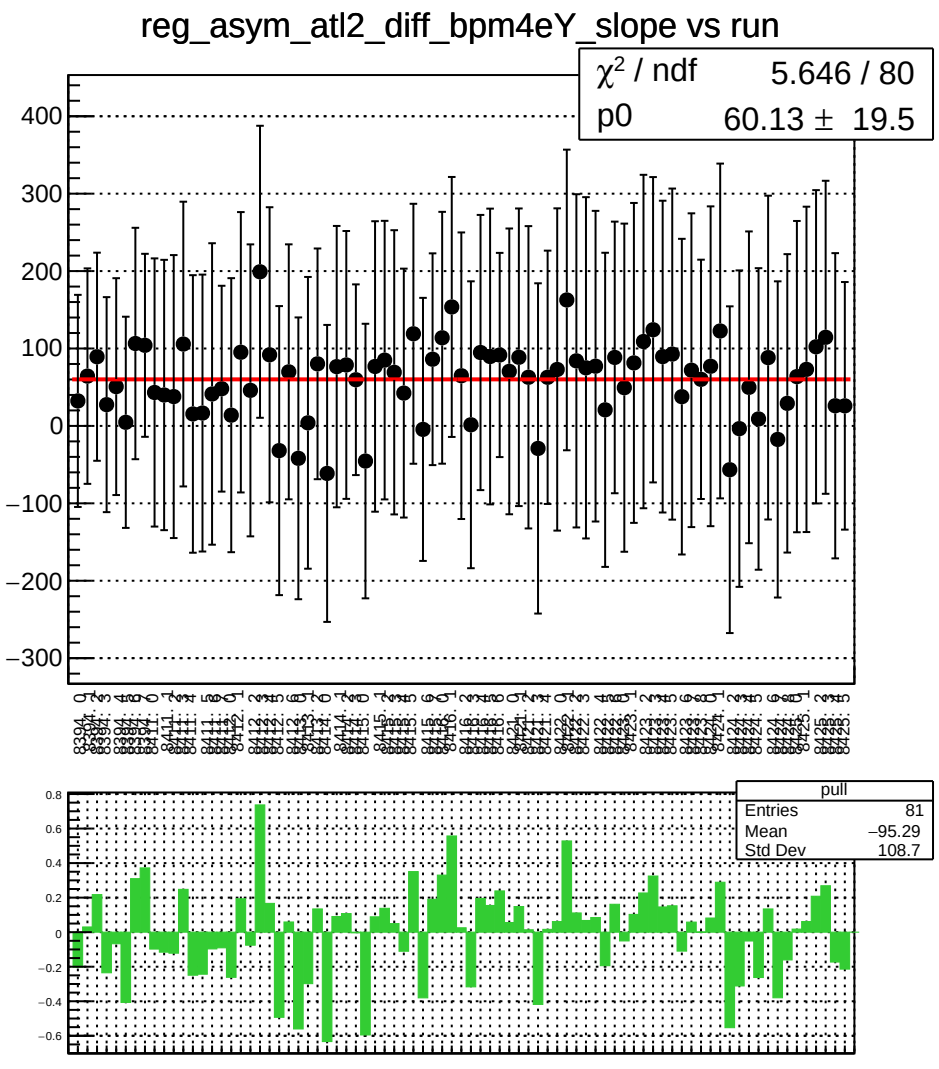

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 5.479 / 80
p0 −485.5 ± 10.01
pull
Entries 81
Mean −624.3
Std Dev 664.1

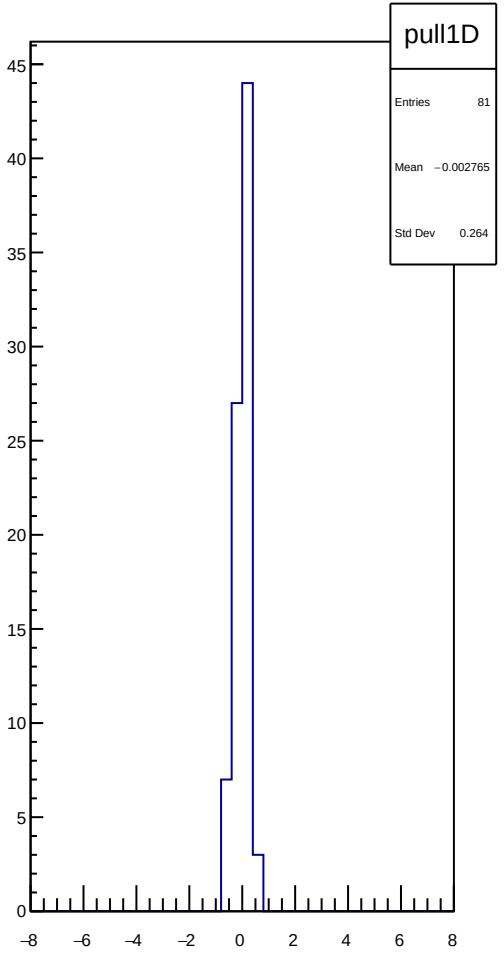

pull1D
Entries 81
Mean 0.002567
Std Dev 0.2601

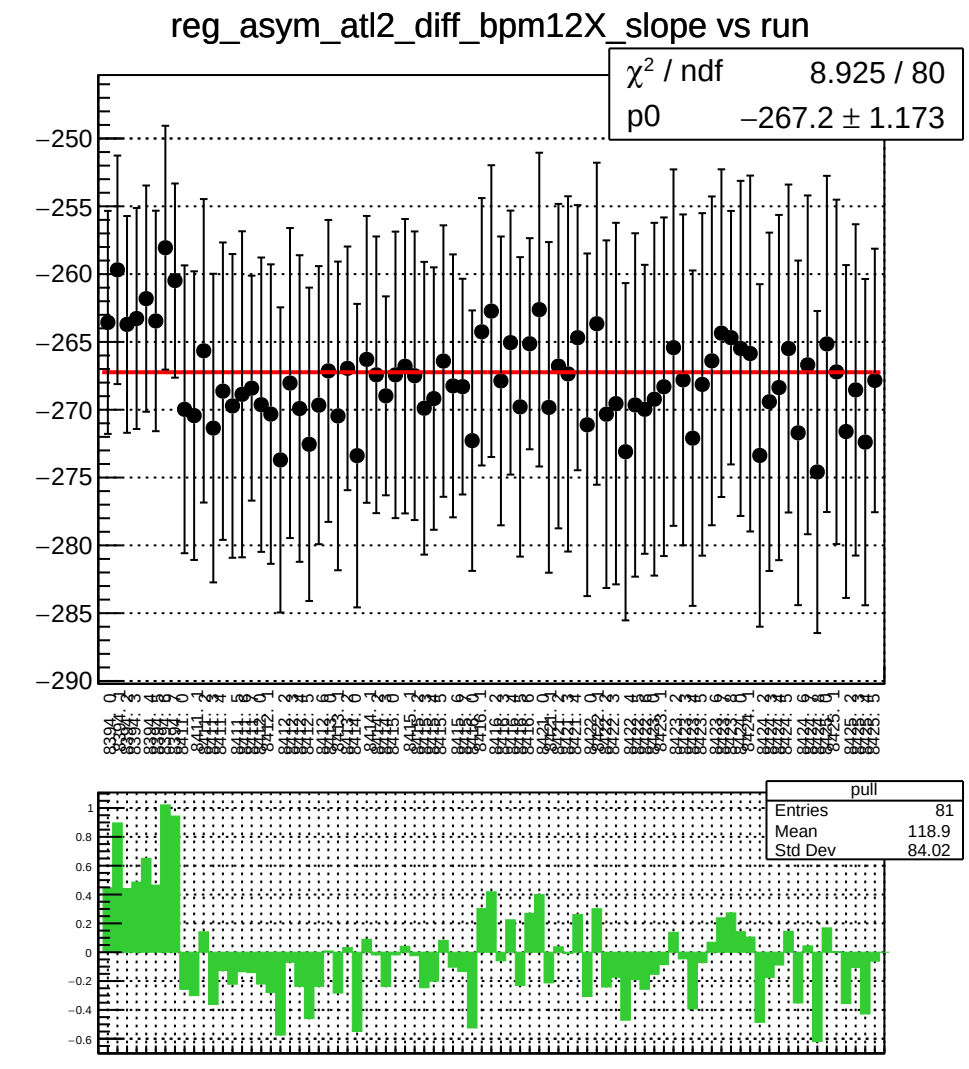

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.618 / 80
p0 64.62 ± 18.6
pull
Entries 81
Mean −27.67
Std Dev 23.25

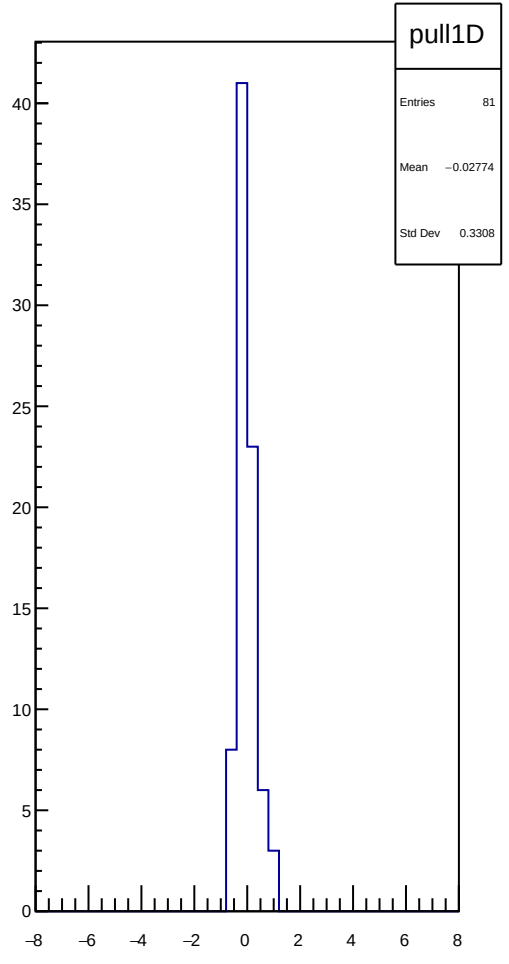

pull1D
Entries 81
Mean 0.003613
Std Dev 0.2633

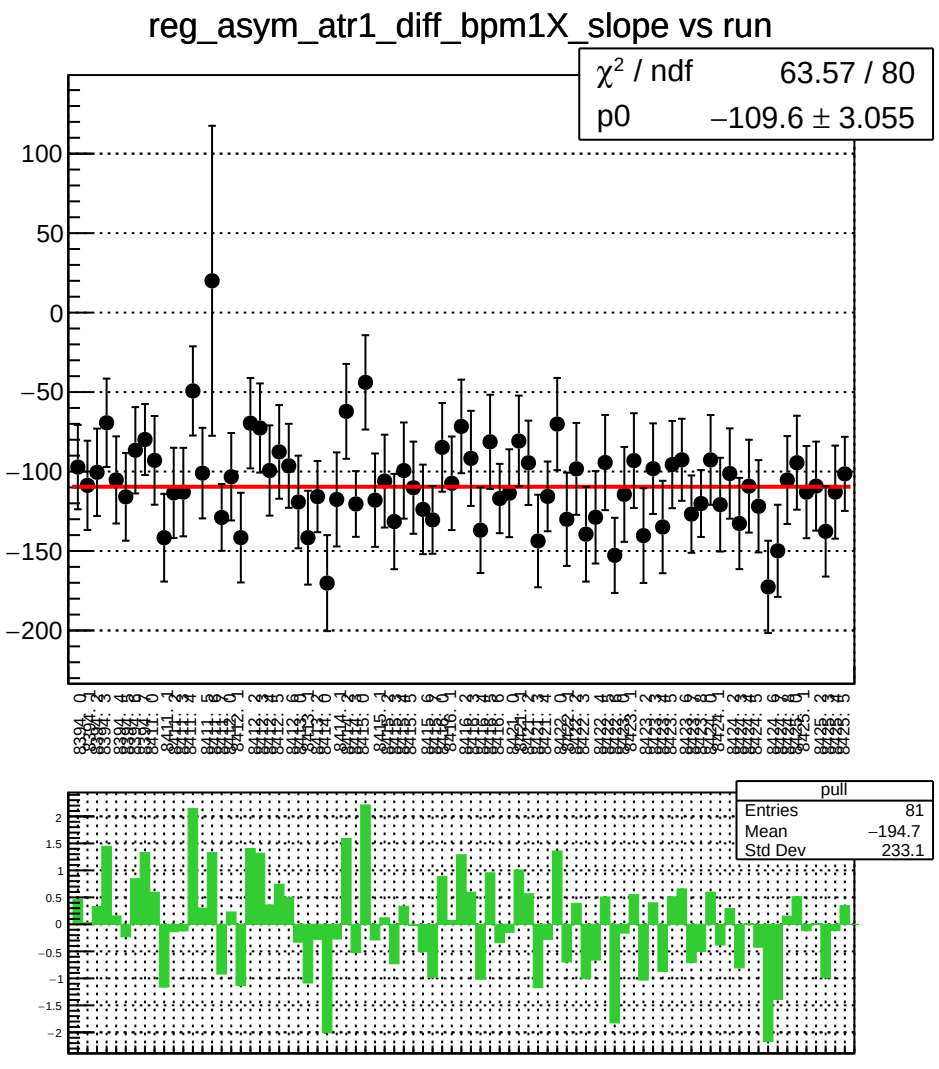

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 5.16 / 80
p0 351.4 ± 11.1
pull
Entries 81
Mean −343.9
Std Dev 384.4
pull1D
Entries 81
Mean −0.003433
Std Dev 0.2524

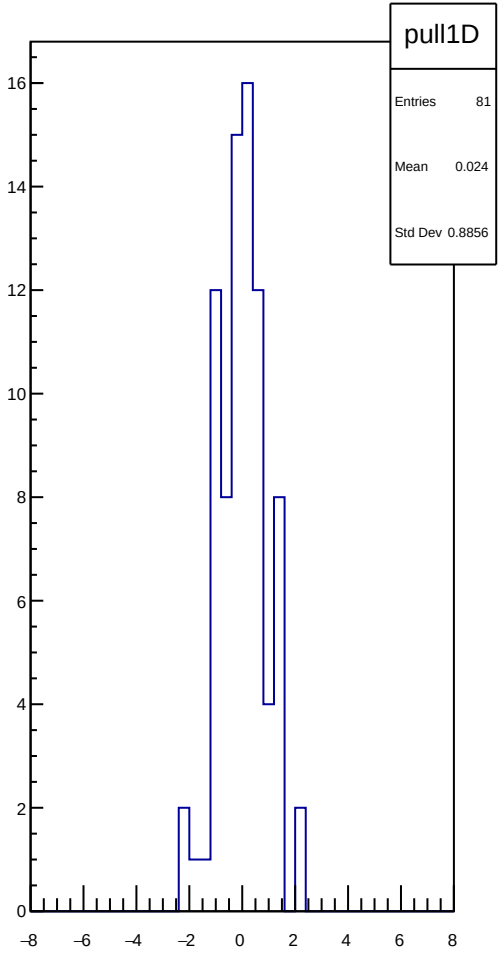

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.646 / 80
p0 60.13 ± 19.5
pull
Entries 81
Mean −95.29
Std Dev 108.7

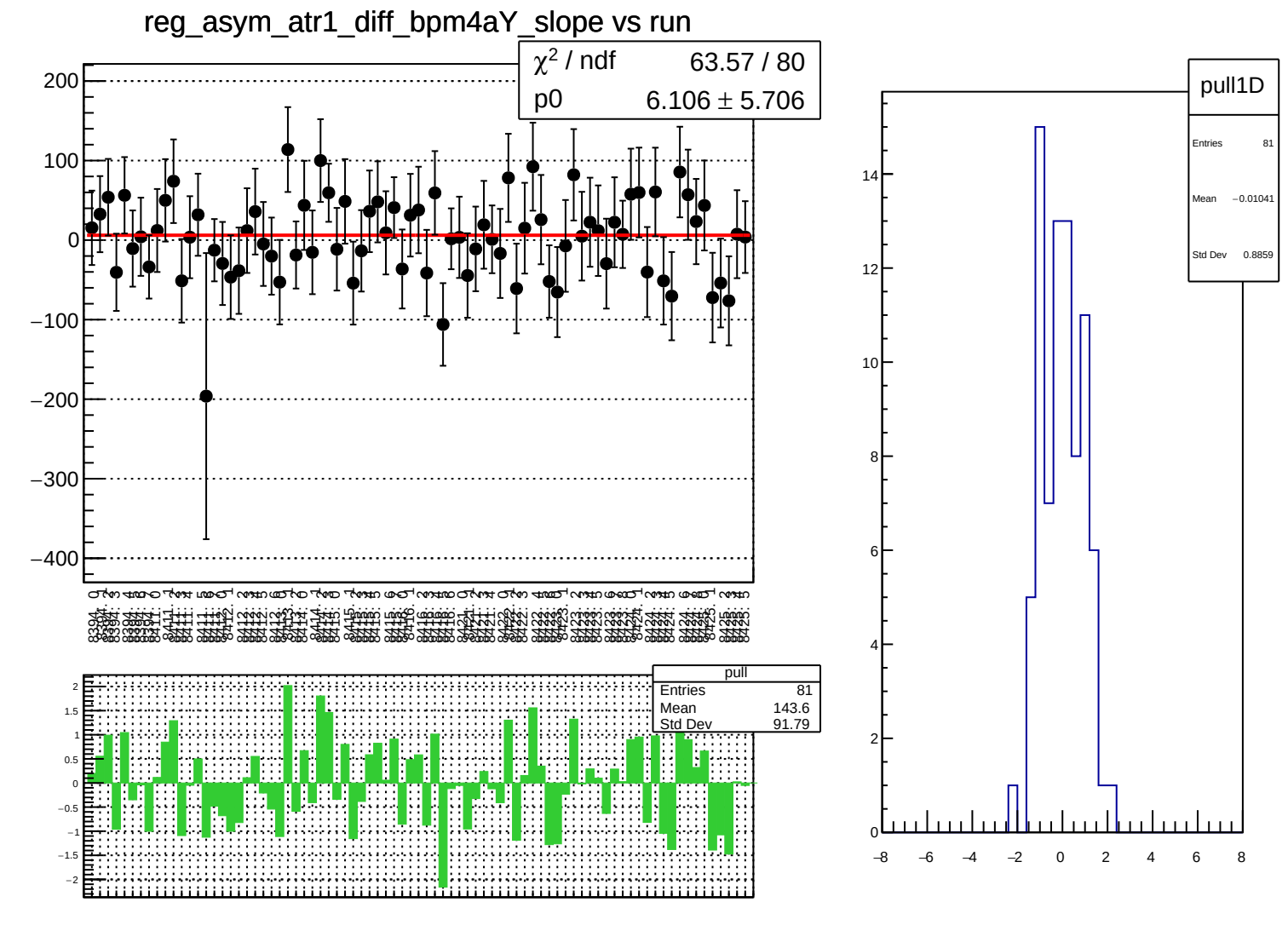

pull1D
Entries 81
Mean −0.002765
Std Dev 0.264

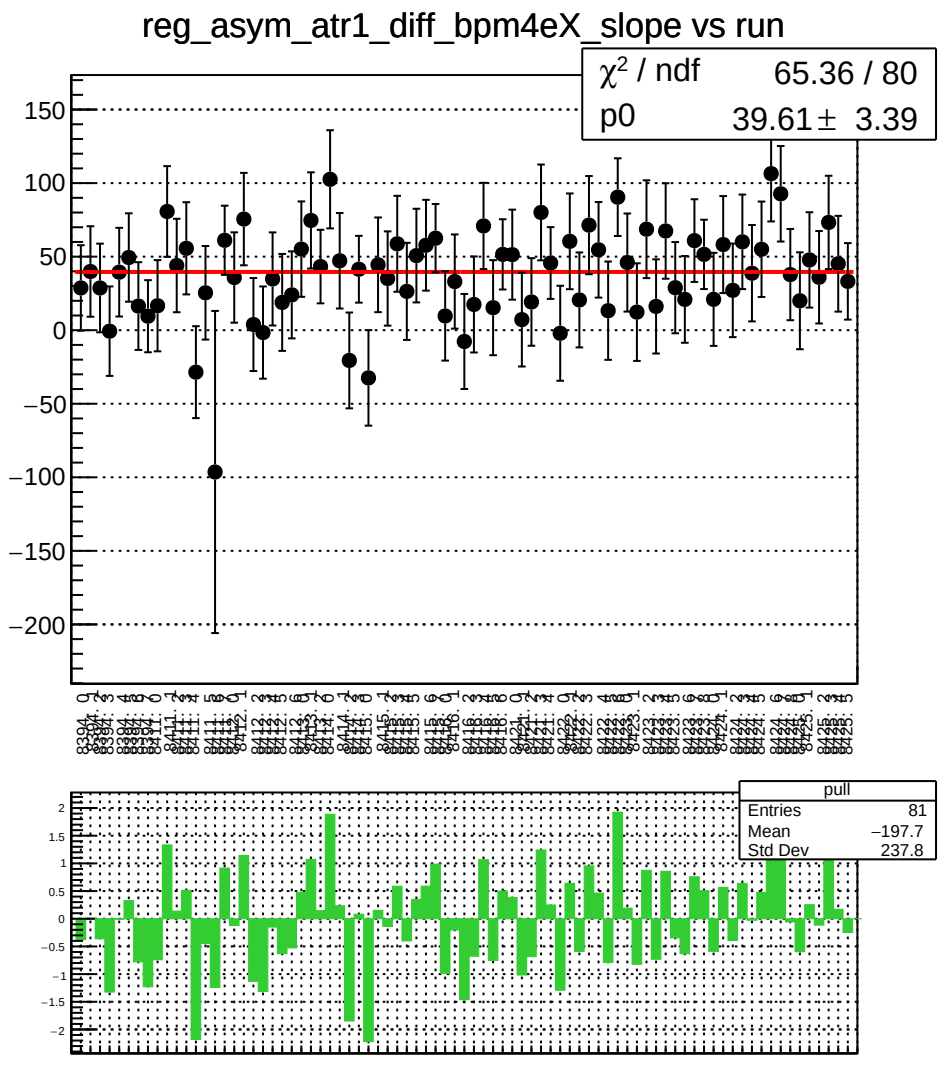

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 8.925 / 80
p0 −267.2 ± 1.173
pull
Entries 81
Mean 118.9
Std Dev 84.02

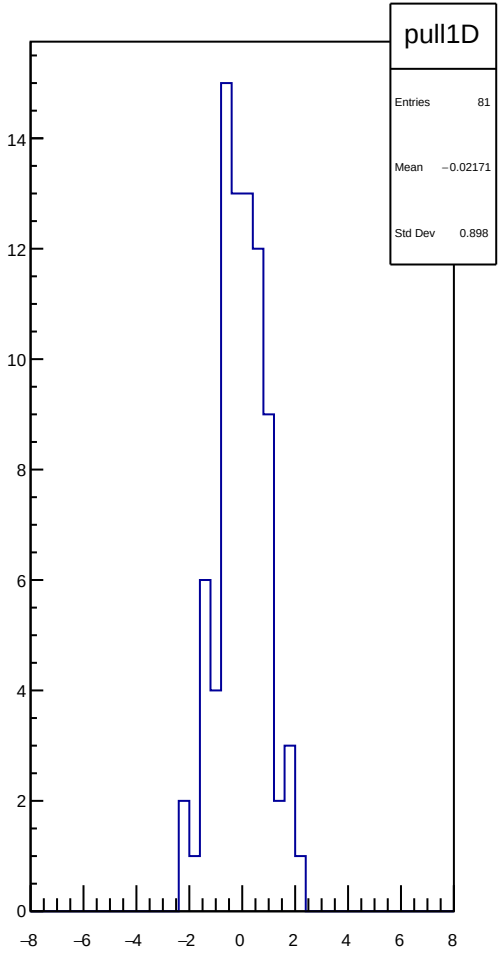

pull1D
Entries 81
Mean −0.02774
Std Dev 0.3308

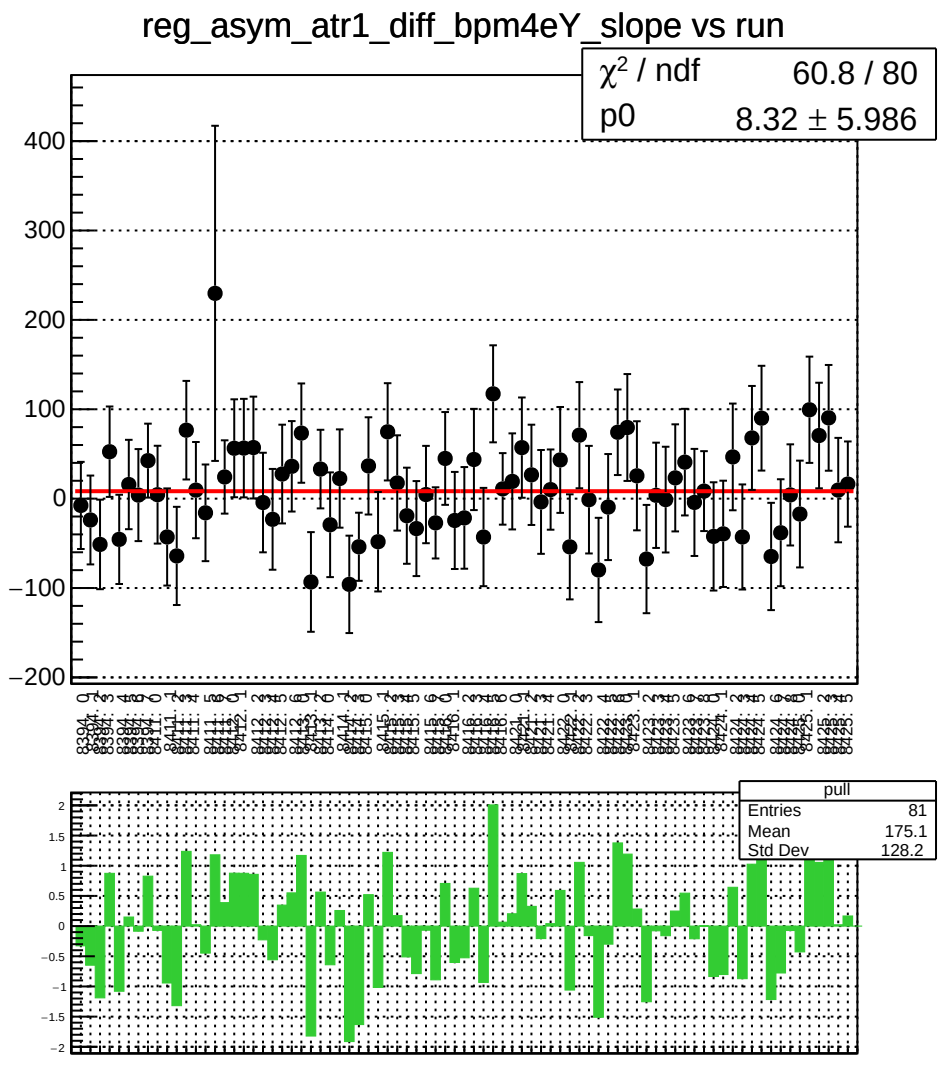

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 63.57 / 80
p0 −109.6 ± 3.055
pull
Entries 81
Mean −194.7
Std Dev 233.1

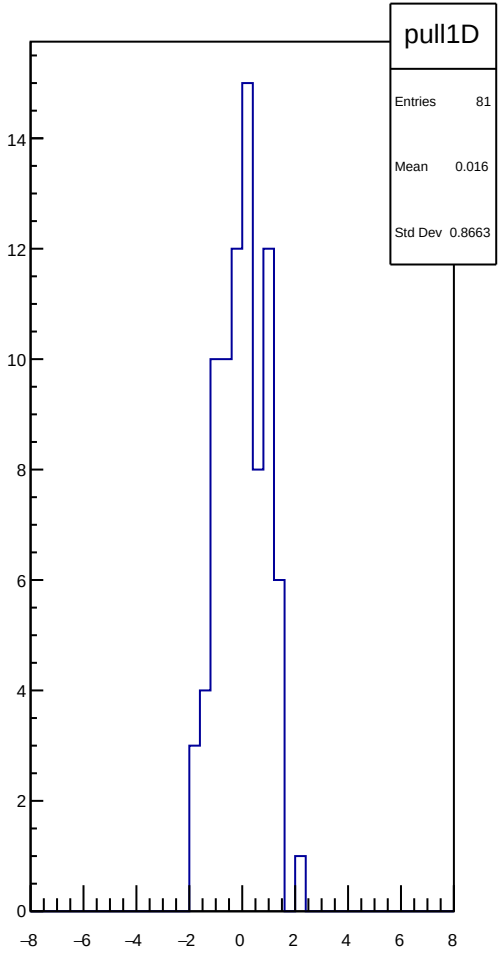

pull1D
Entries 81
Mean 0.024
Std Dev 0.8856

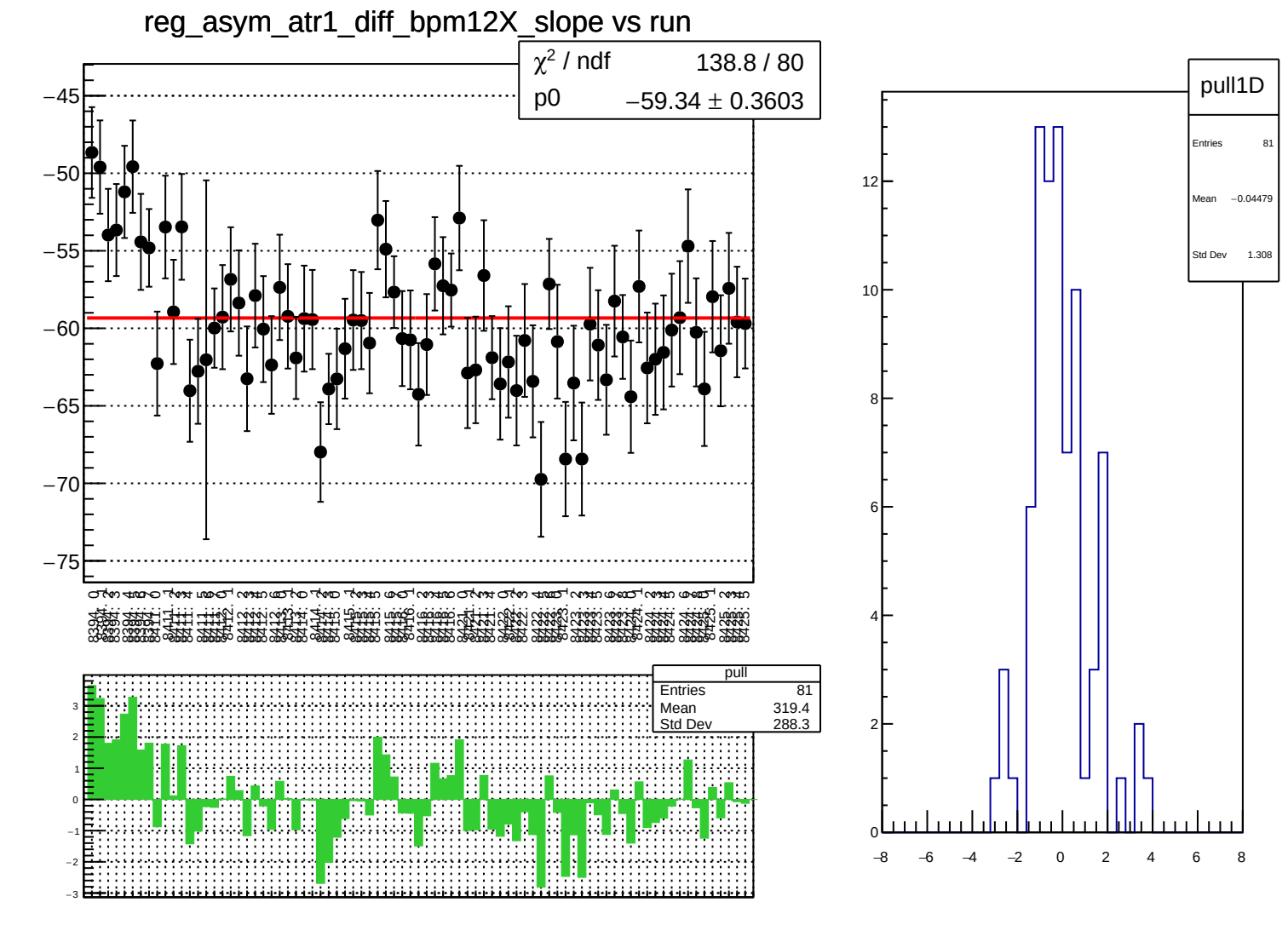

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 63.57 / 80
p0 6.106 ± 5.706
pull
Entries 81
Mean 143.6
Std Dev 91.79
pull1D
Entries 81
Mean −0.01041
Std Dev 0.8859

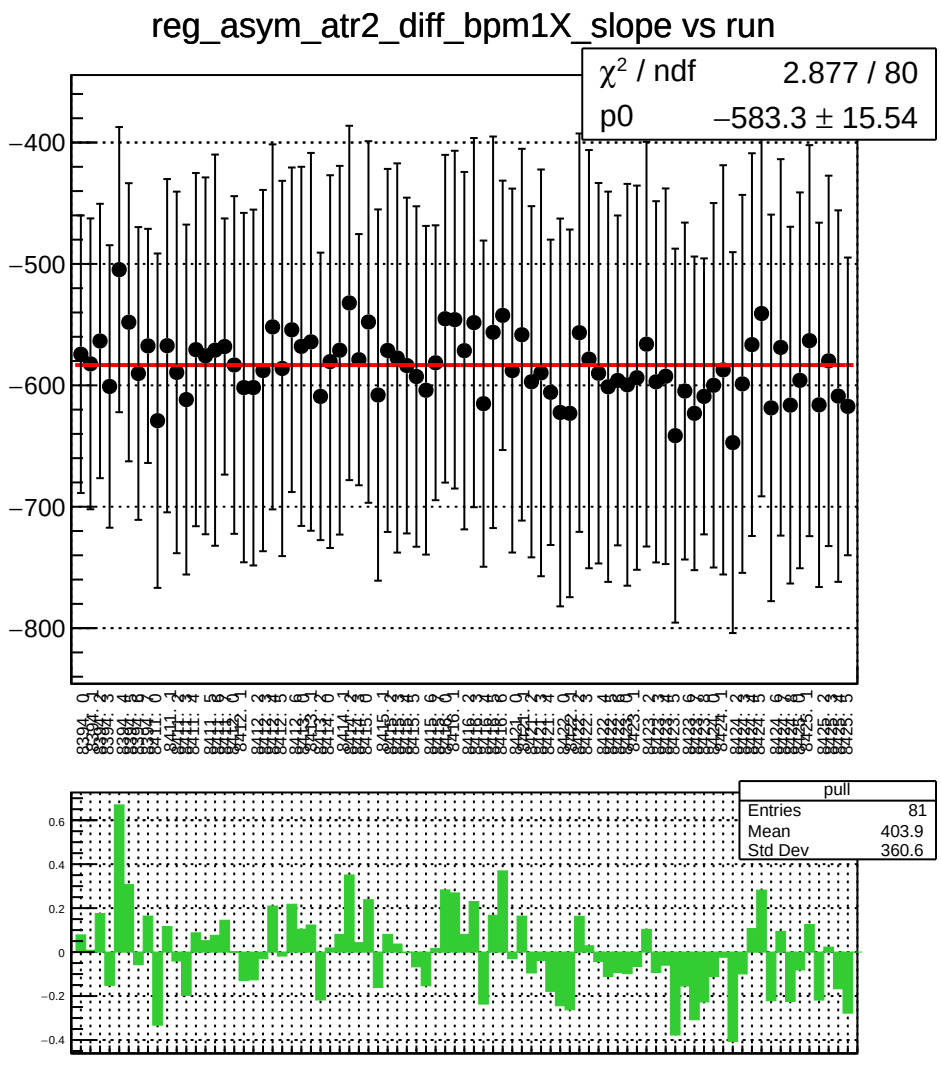

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 65.36 / 80
p0 39.61 ± 3.39
pull
Entries 81
Mean −197.7
Std Dev 237.8

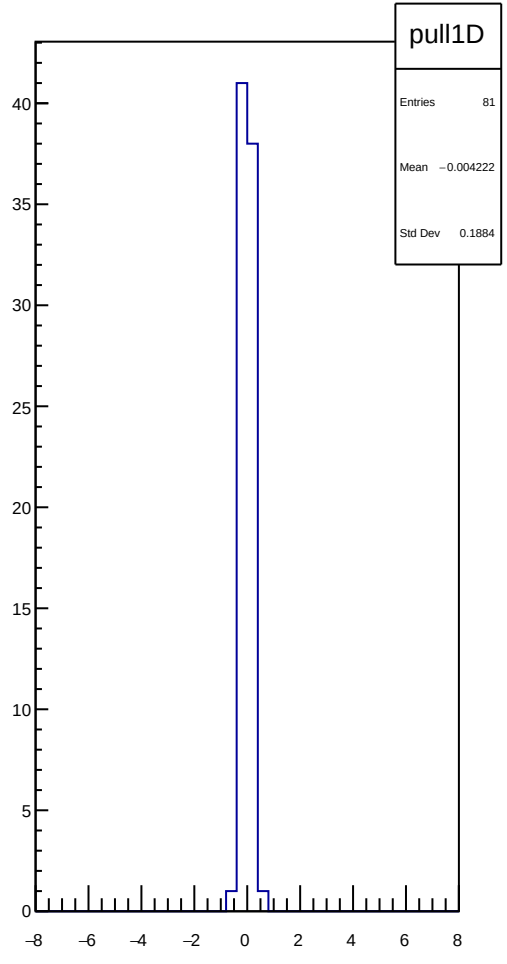

pull1D
Entries 81
Mean −0.02171
Std Dev 0.898

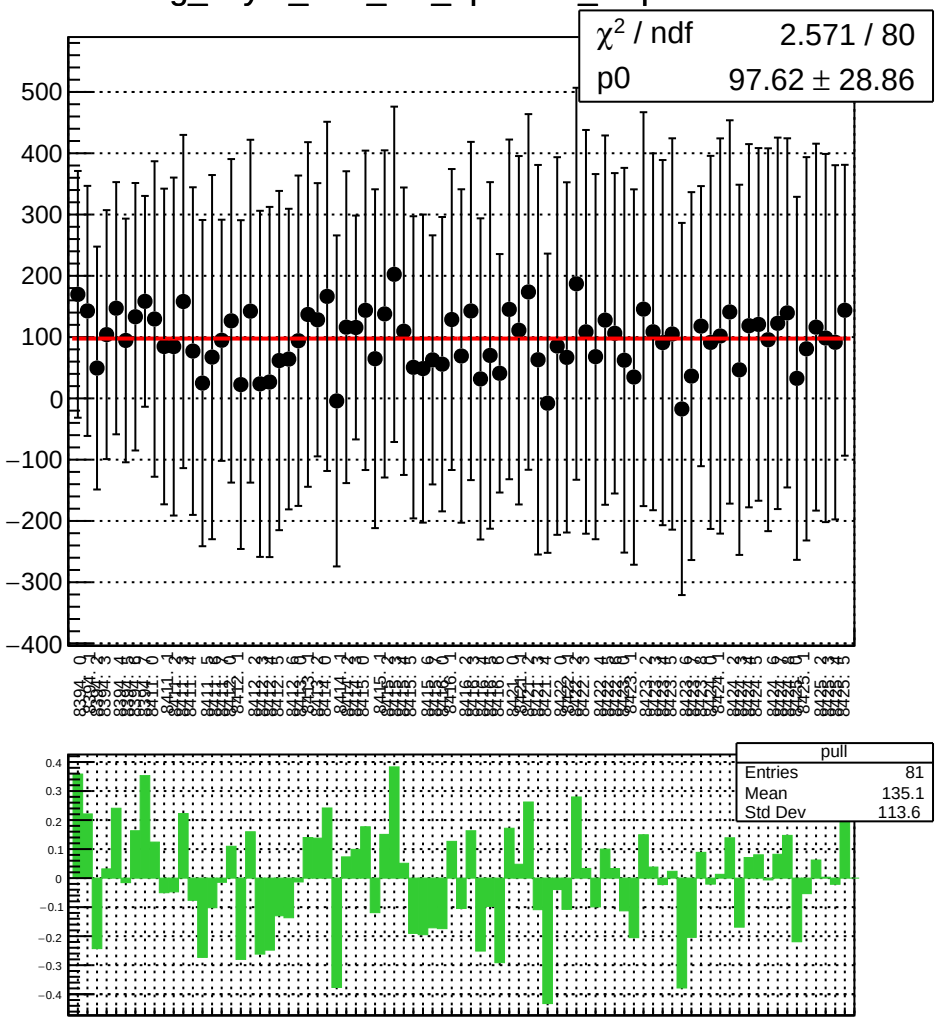

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 60.8 / 80
p0 8.32 ± 5.986
pull
Entries 81
Mean 175.1
Std Dev 128.2

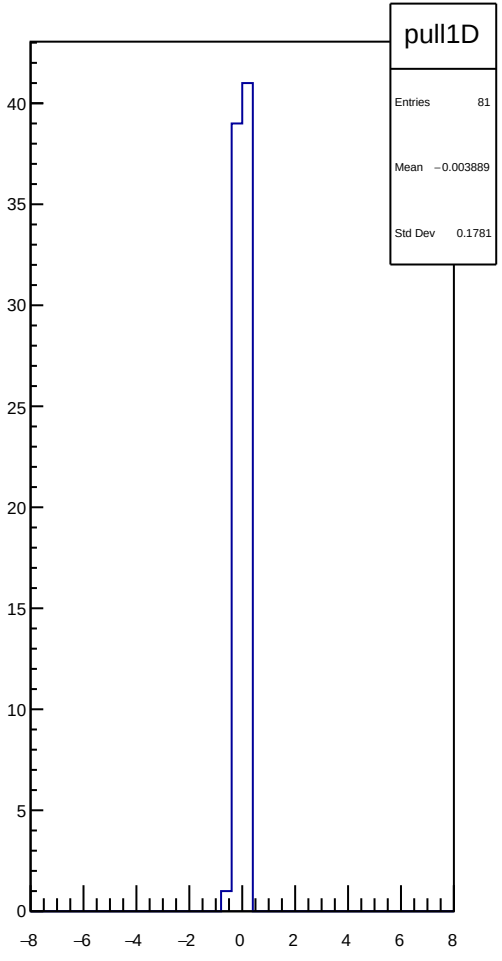

pull1D
Entries 81
Mean 0.016
Std Dev 0.8663

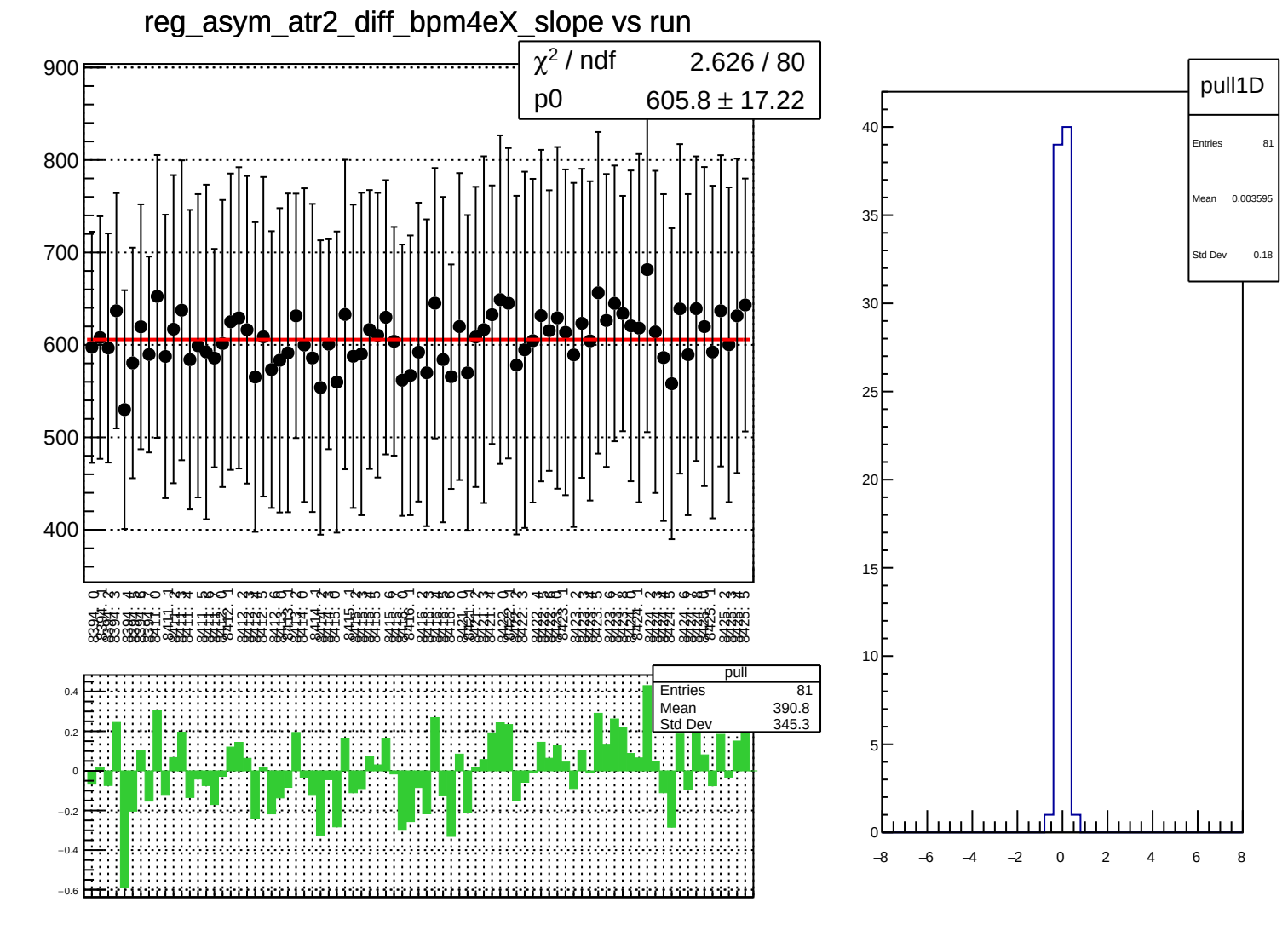

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 138.8 / 80
p0 −59.34 ± 0.3603
pull
Entries 81
Mean 319.4
Std Dev 288.3
pull1D
Entries 81
Mean −0.04479
Std Dev 1.308

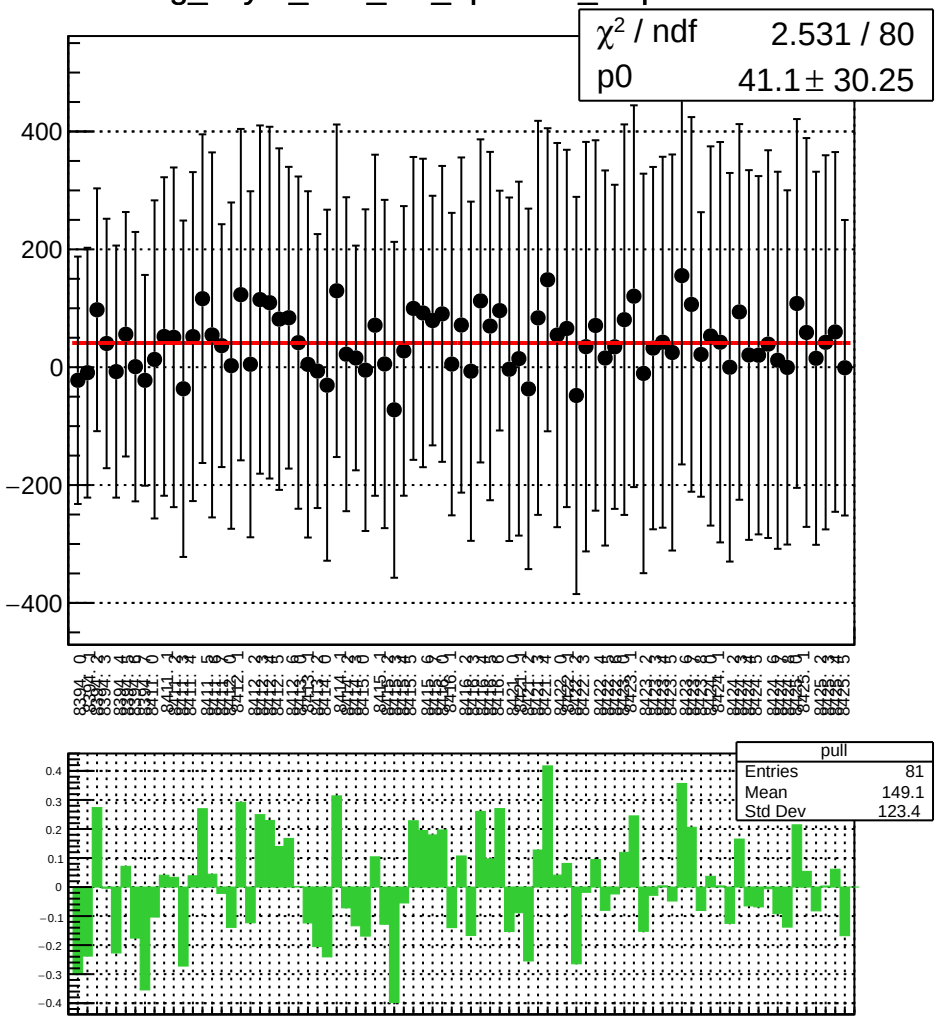

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 2.877 / 80
p0 −583.3 ± 15.54
−400
−500
−600
−700
−800
pull
Entries 81
Mean 403.9
Std Dev 360.6
0.6
0.4
0.2
0
−0.2
−0.4

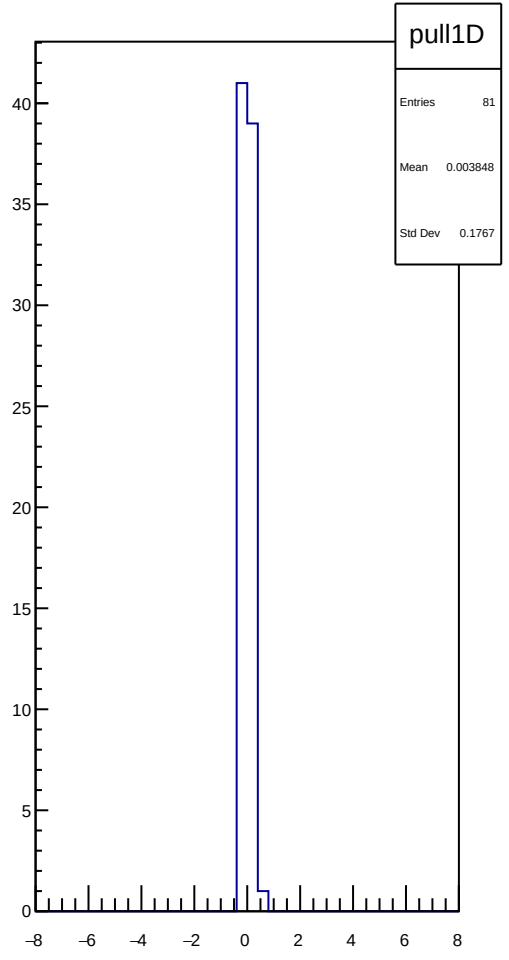

pull1D
Entries 81
Mean −0.004222
Std Dev 0.1884
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

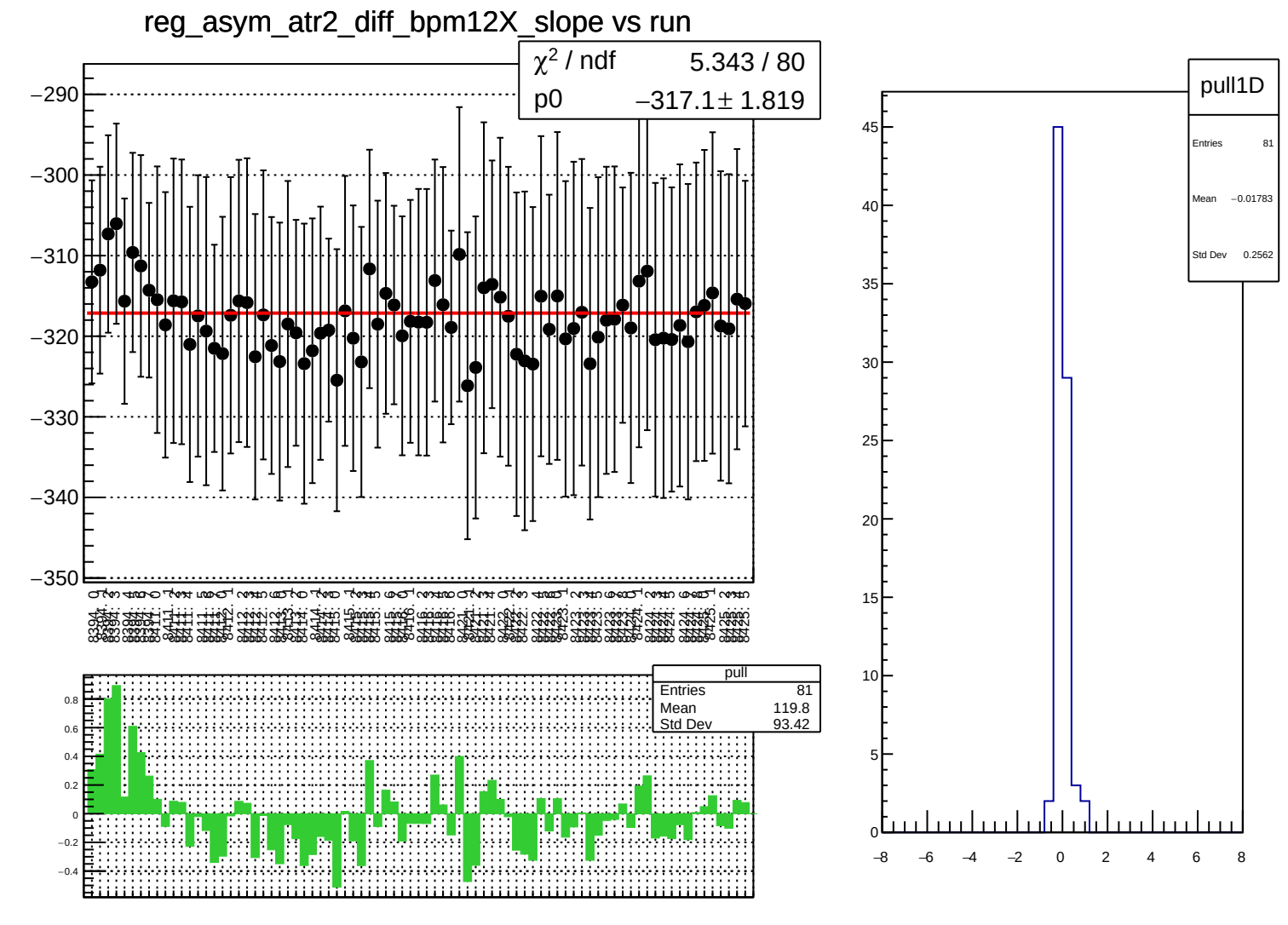

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 2.571 / 80
p0 97.62 ± 28.86
pull
Entries 81
Mean 135.1
Std Dev 113.6

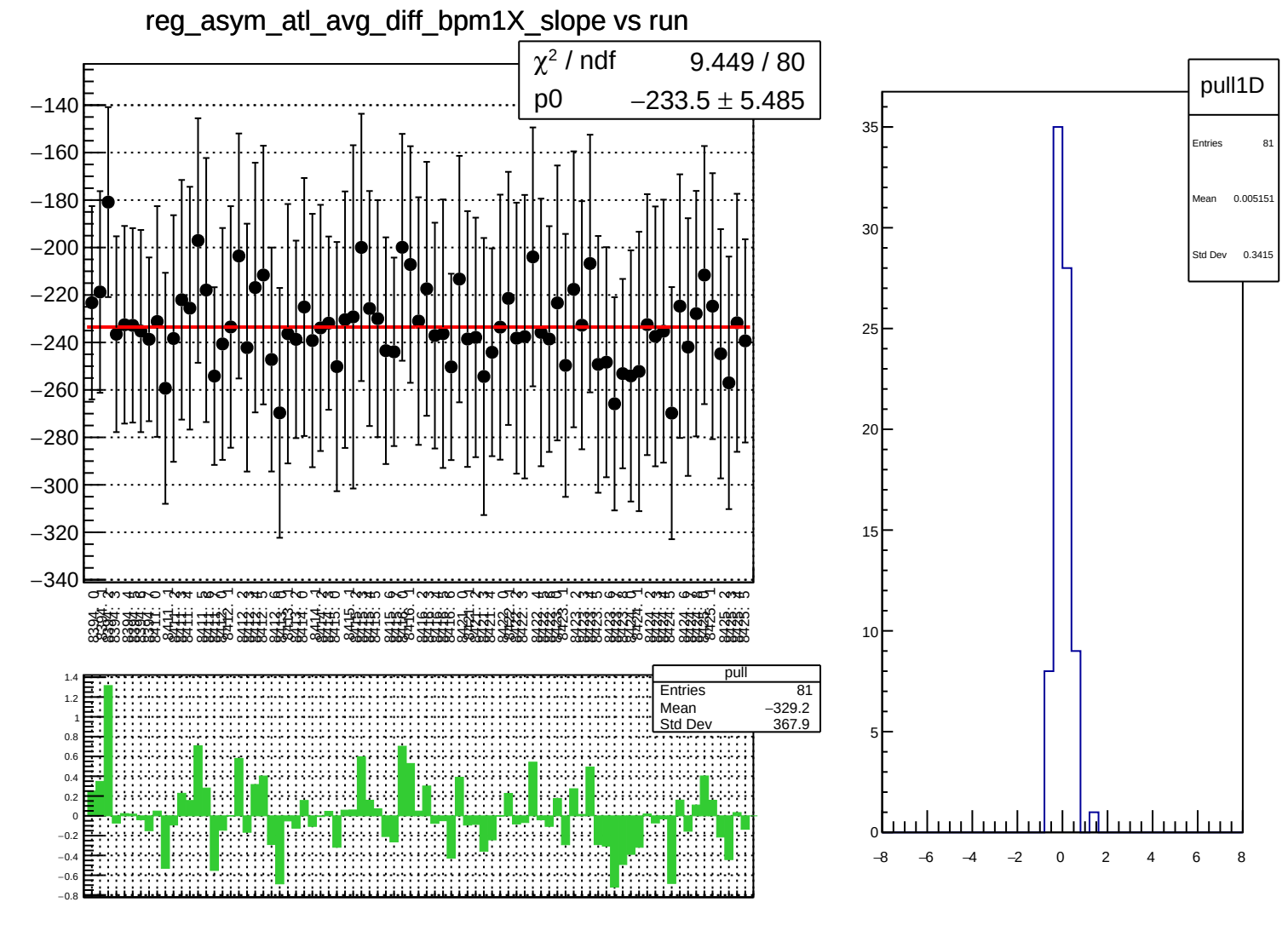

pull1D
Entries 81
Mean −0.003889
Std Dev 0.1781

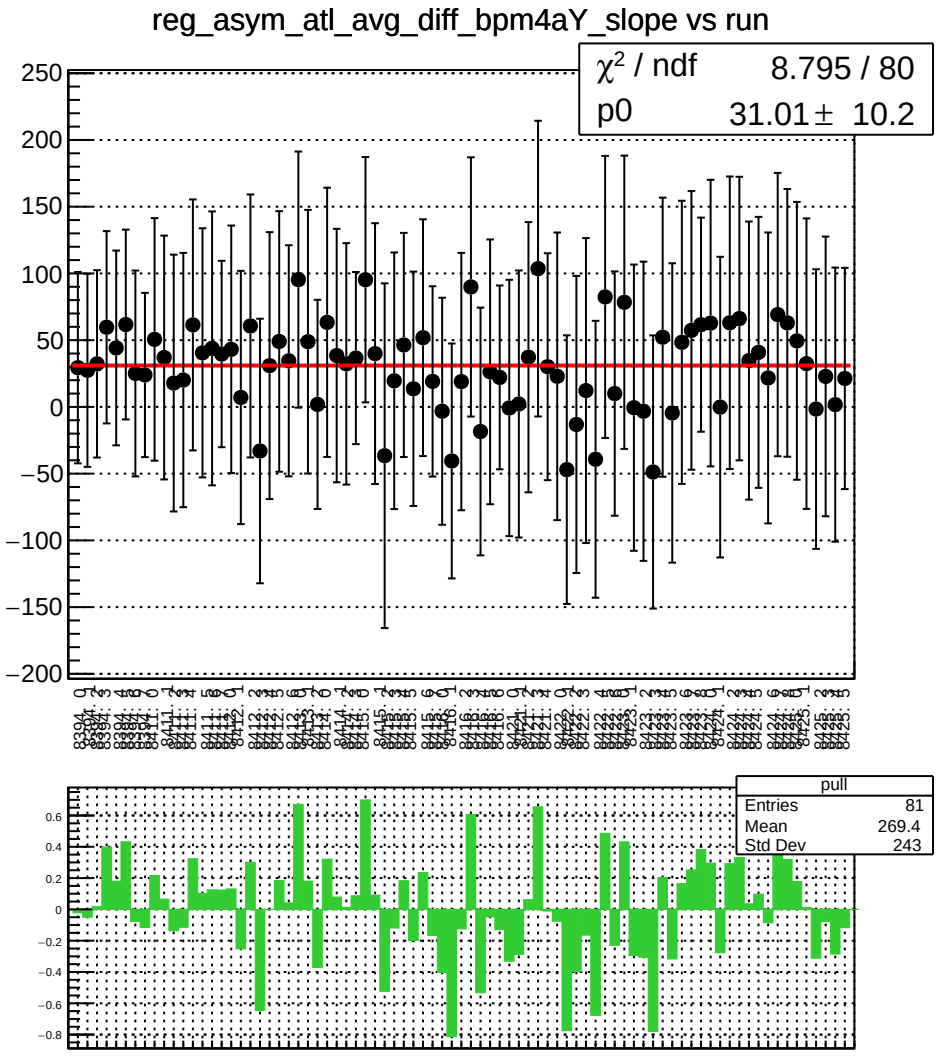

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 2.626 / 80
p0 605.8 ± 17.22
900
800
700
600
500
400
pull
Entries 81
Mean 390.8
Std Dev 345.3
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 81
Mean 0.003595
Std Dev 0.18
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

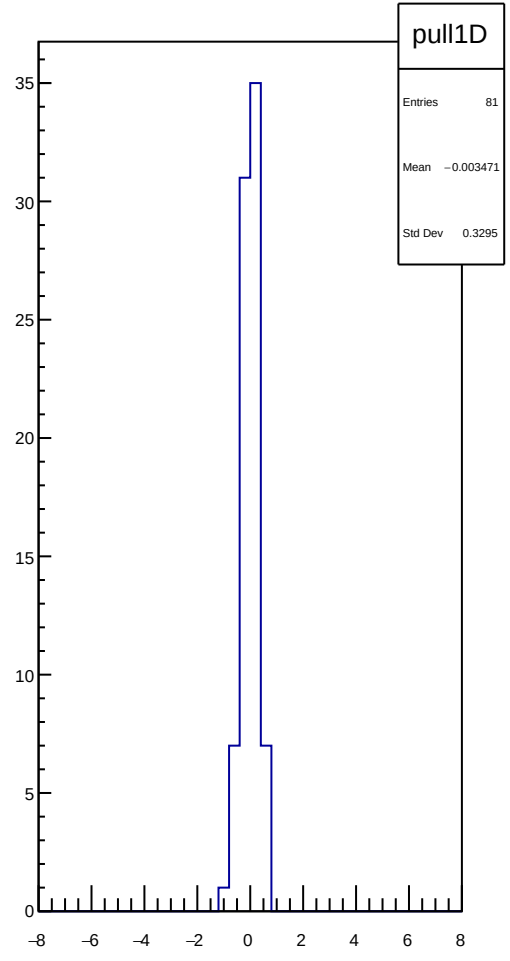

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 2.531 / 80
p0 41.1 ± 30.25
pull
Entries 81
Mean 149.1
Std Dev 123.4

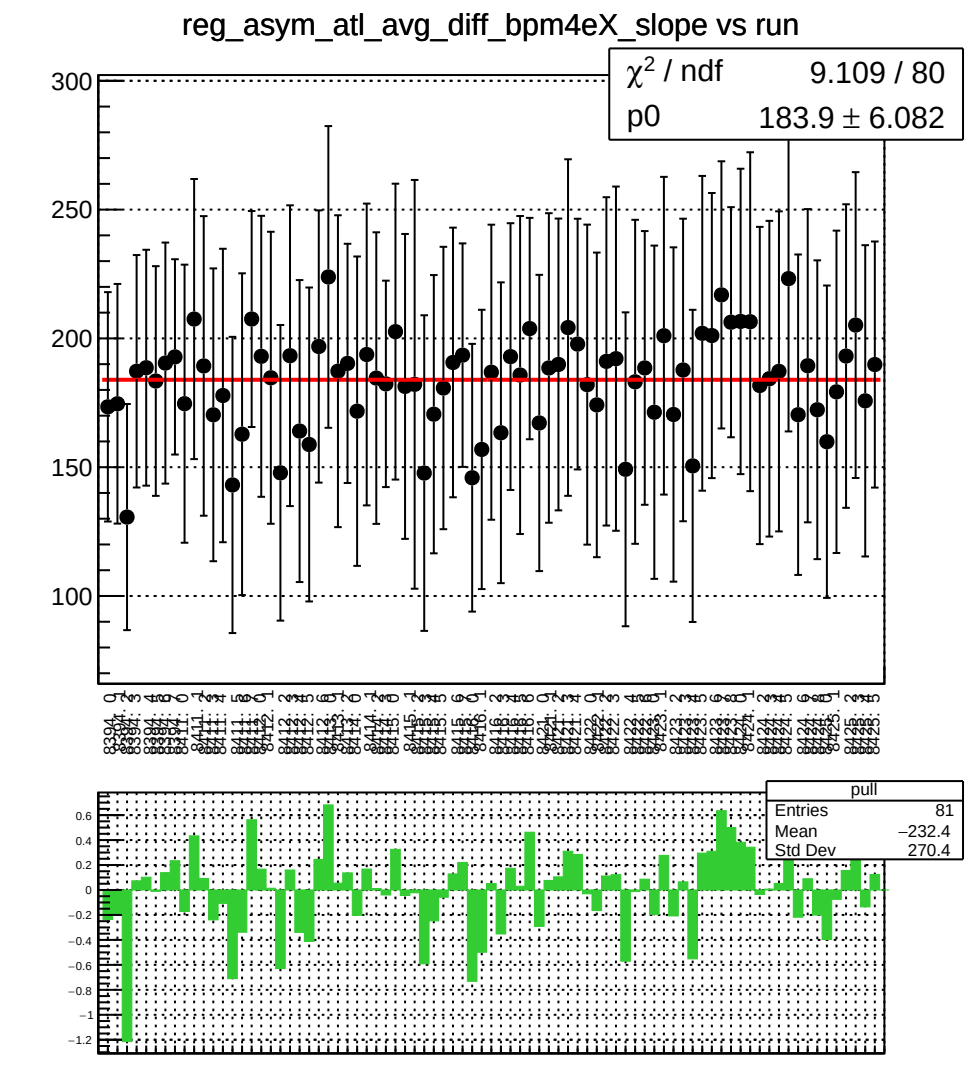

pull1D
Entries 81
Mean 0.003848
Std Dev 0.1767

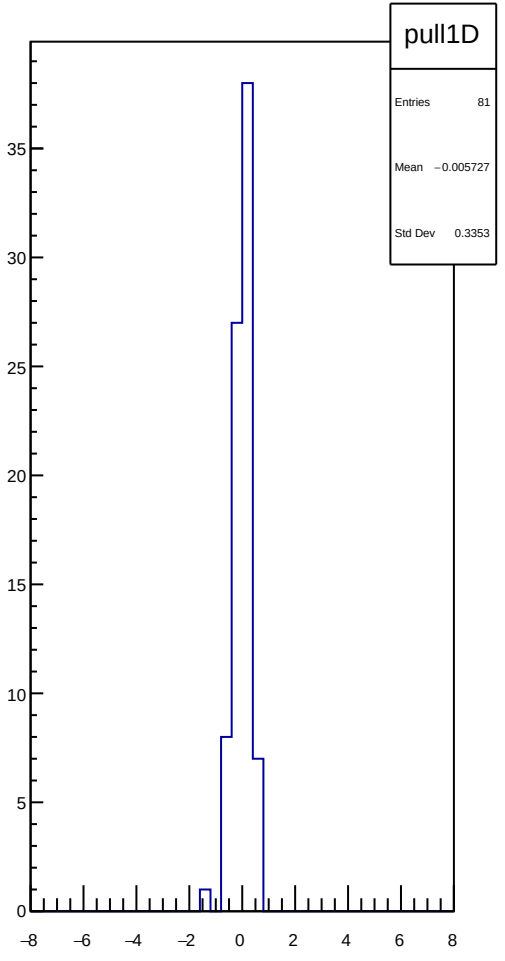

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 5.343 / 80
p0 −317.1± 1.819
pull
Entries 81
Mean 119.8
Std Dev 93.42
pull1D
Entries 81
Mean −0.01783
Std Dev 0.2562

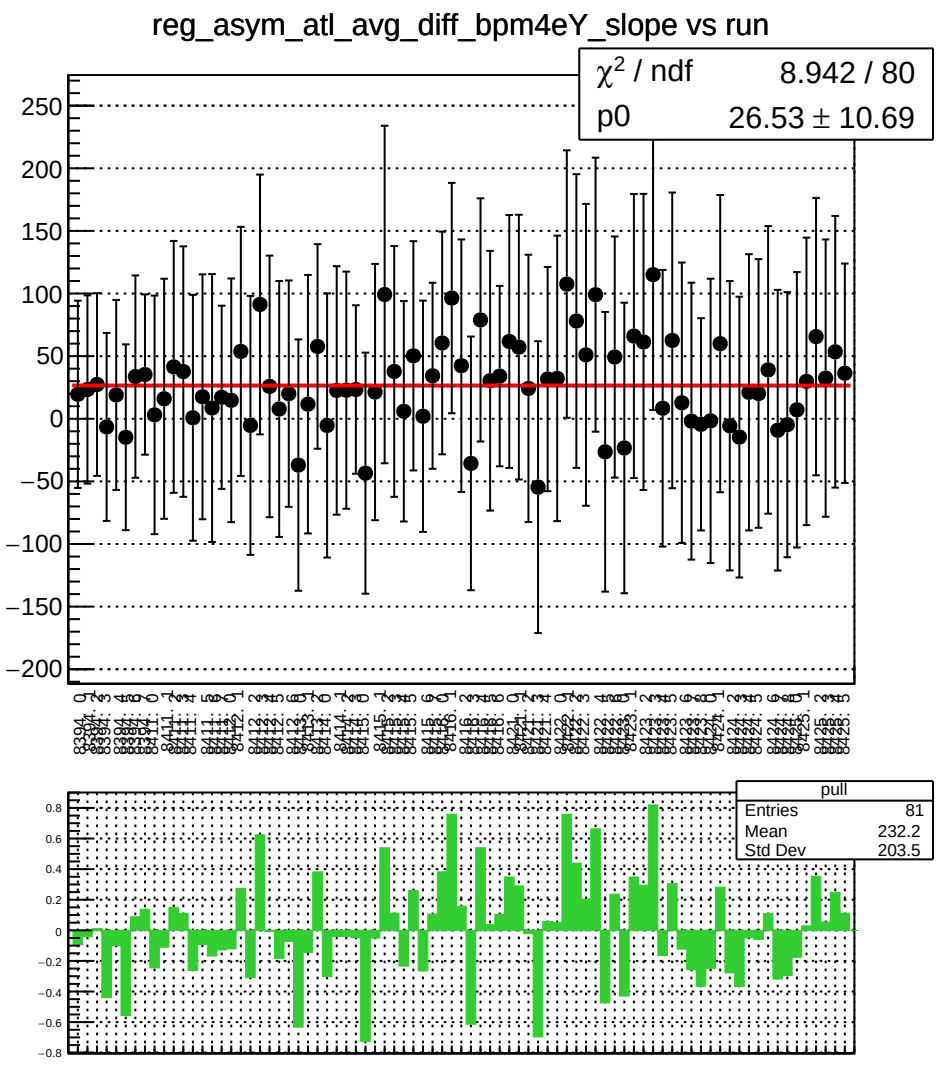

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 9.449 / 80
p0 −233.5 ± 5.485
pull
Entries 81
Mean −329.2
Std Dev 367.9
pull1D
Entries 81
Mean 0.005151
Std Dev 0.3415

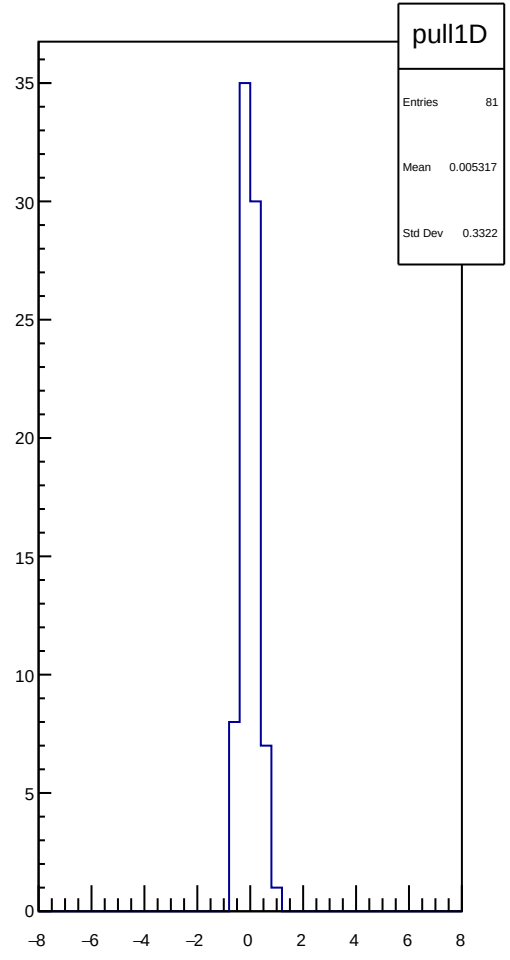

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.795 / 80
p0 31.01 ± 10.2
pull
Entries 81
Mean 269.4
Std Dev 243

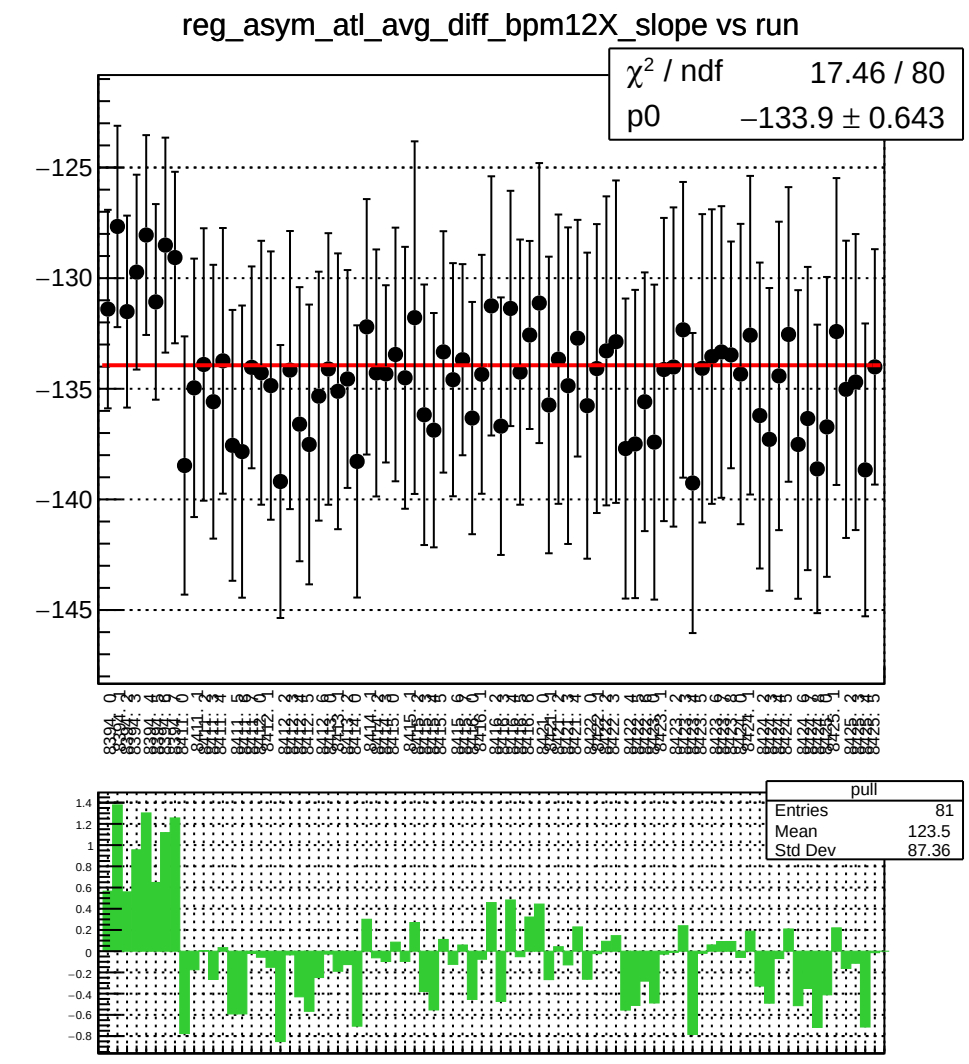

pull1D
Entries 81
Mean −0.003471
Std Dev 0.3295

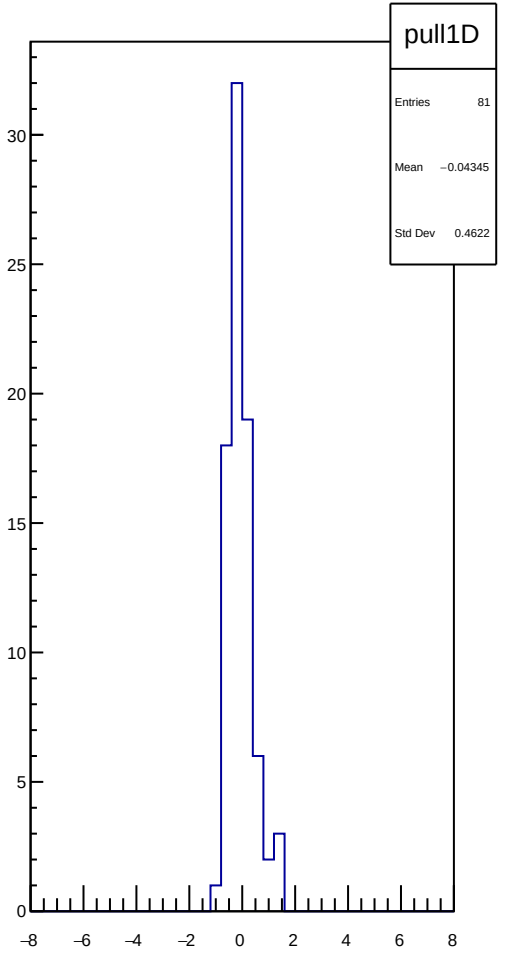

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.109 / 80
p0 183.9 ± 6.082
300
250
200
150
100
pull
Entries 81
Mean −232.4
Std Dev 270.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

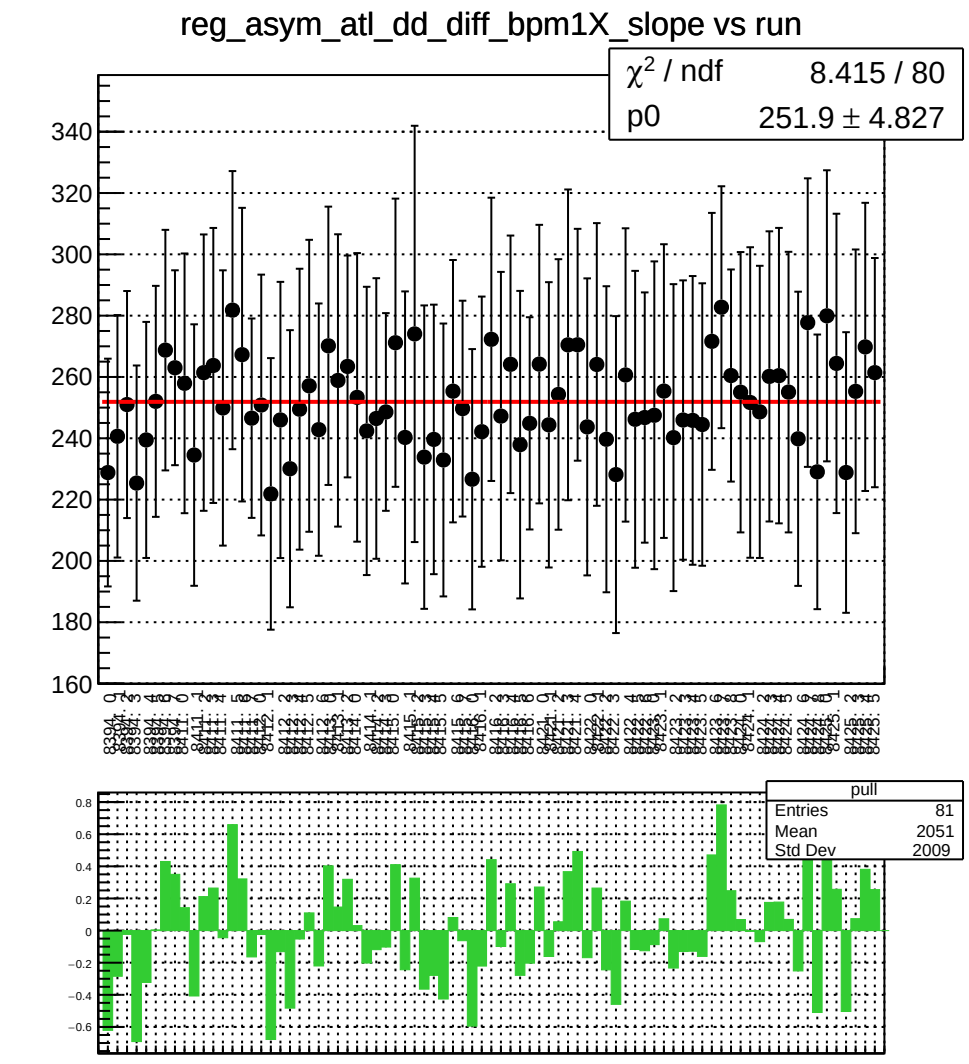

pull1D
Entries 81
Mean −0.005727
Std Dev 0.3353
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

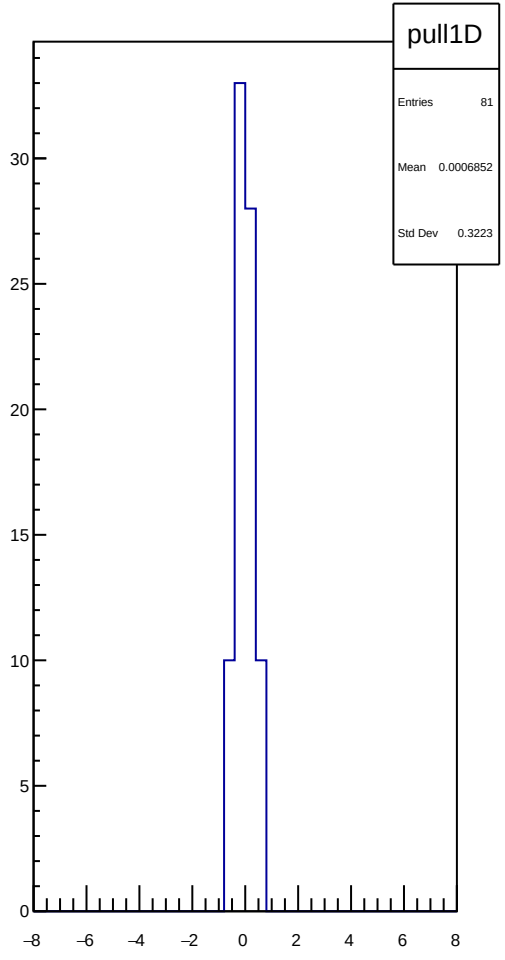

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.942 / 80
p0 26.53 ± 10.69
pull
Entries 81
Mean 232.2
Std Dev 203.5

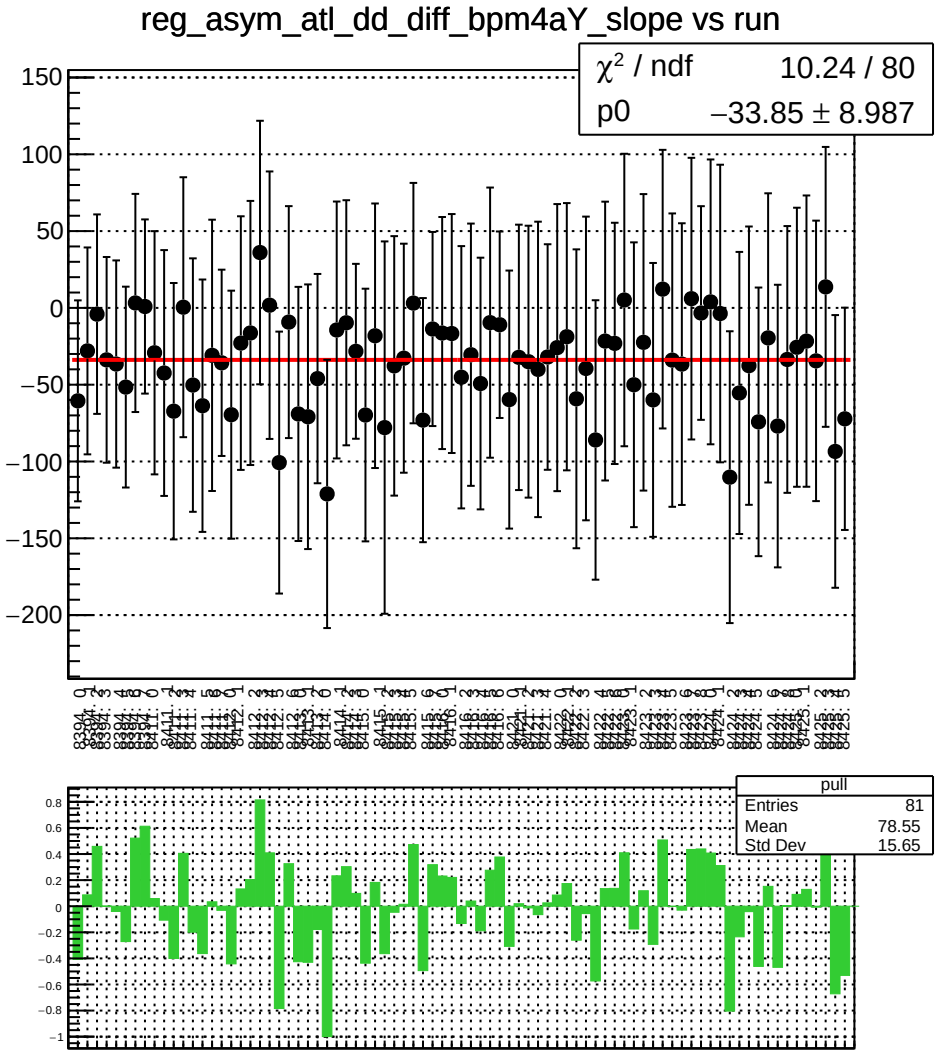

pull1D
Entries 81
Mean 0.005317
Std Dev 0.3322

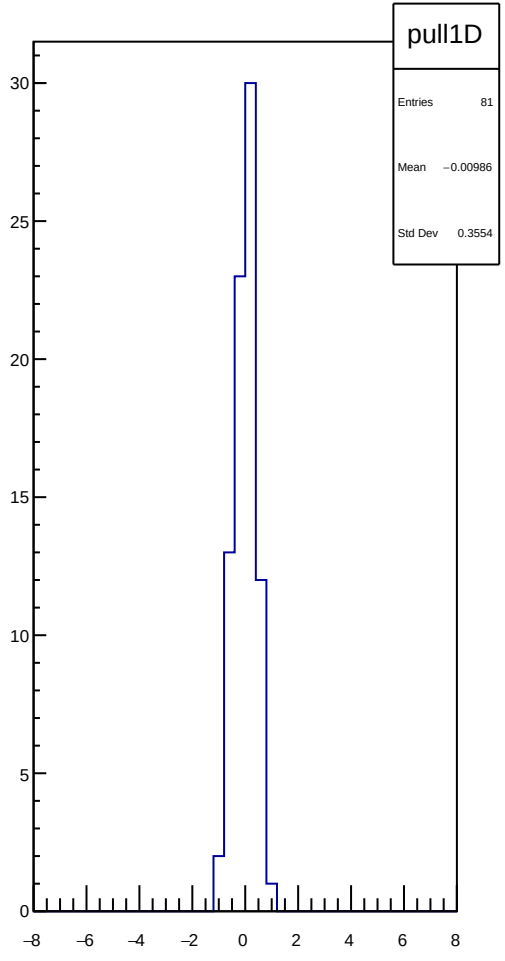

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 17.46 / 80
p0 −133.9 ± 0.643
−125
−130
−135
−140
−145
pull
Entries 81
Mean 123.5
Std Dev 87.36
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

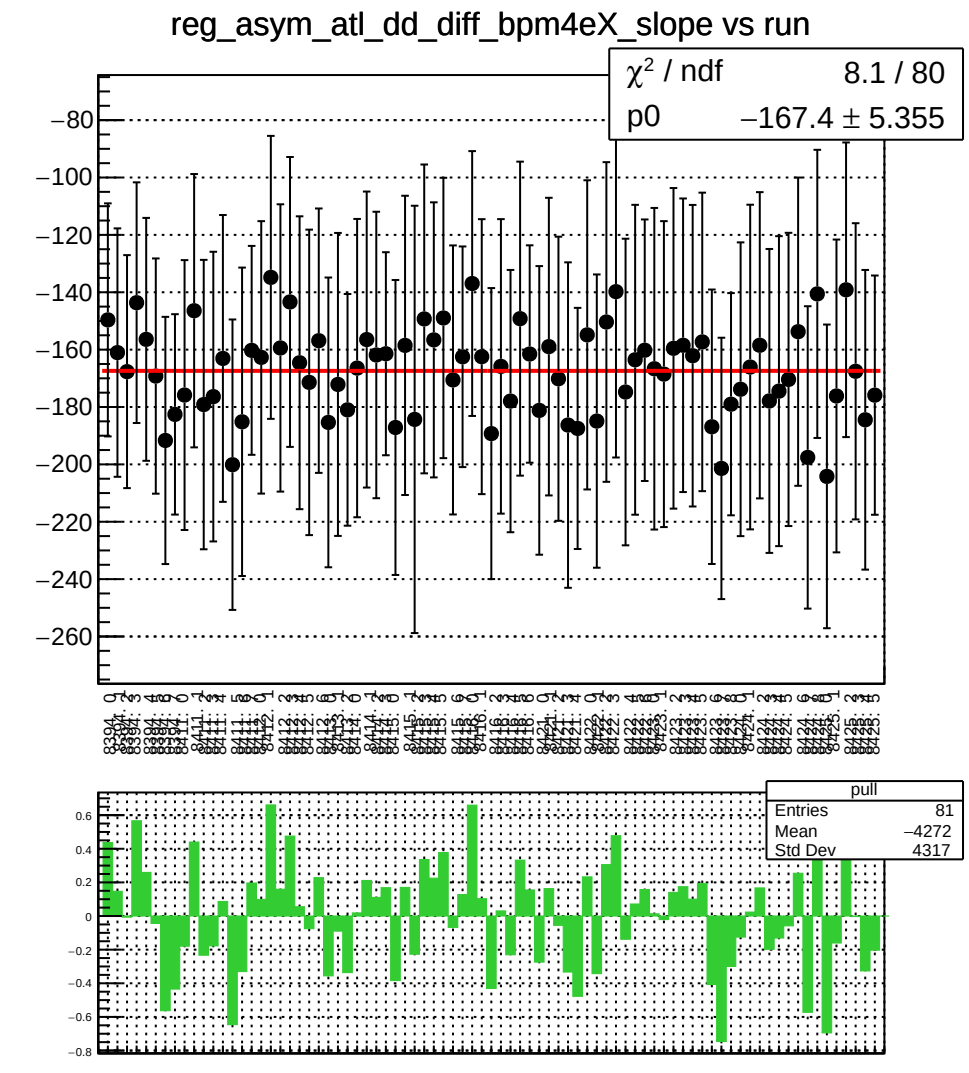

pull1D
Entries 81
Mean −0.04345
Std Dev 0.4622
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

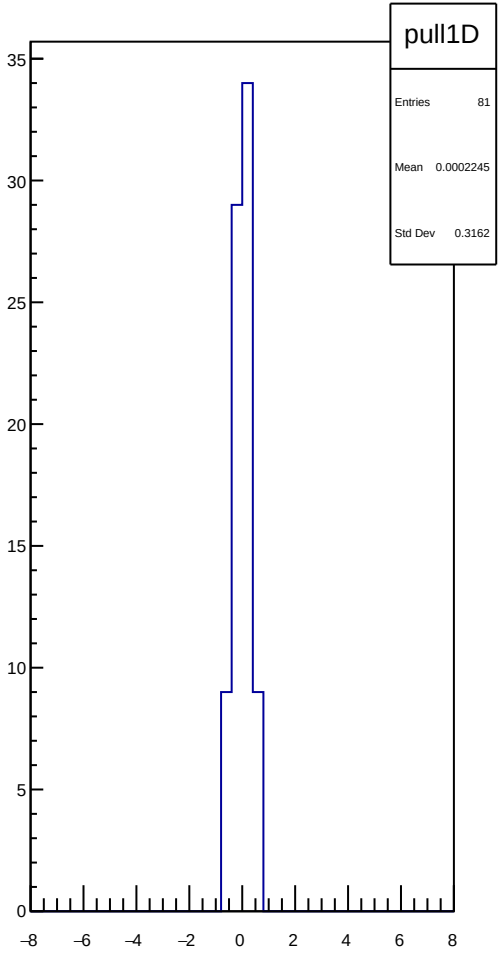

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 8.415 / 80
p0 251.9 ± 4.827
pull
Entries 81
Mean 2051
Std Dev 2009

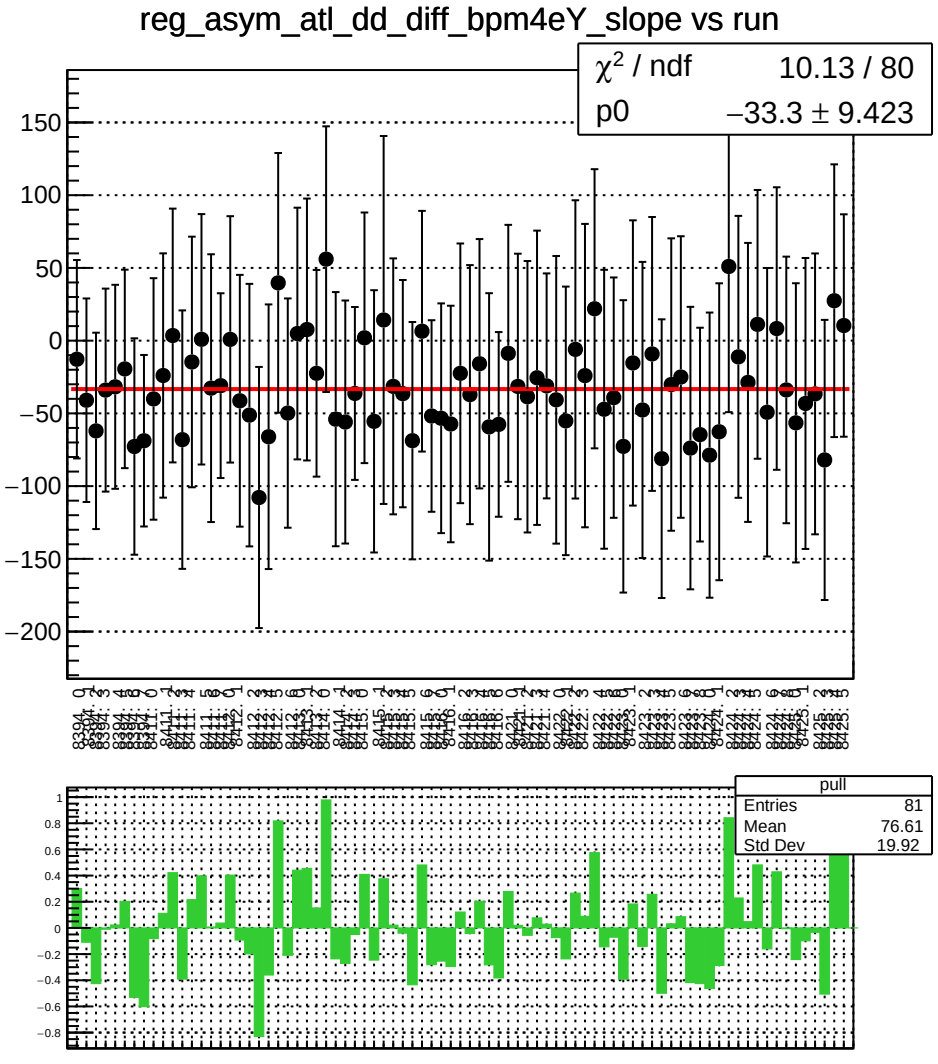

pull1D
Entries 81
Mean 0.0006852
Std Dev 0.3223

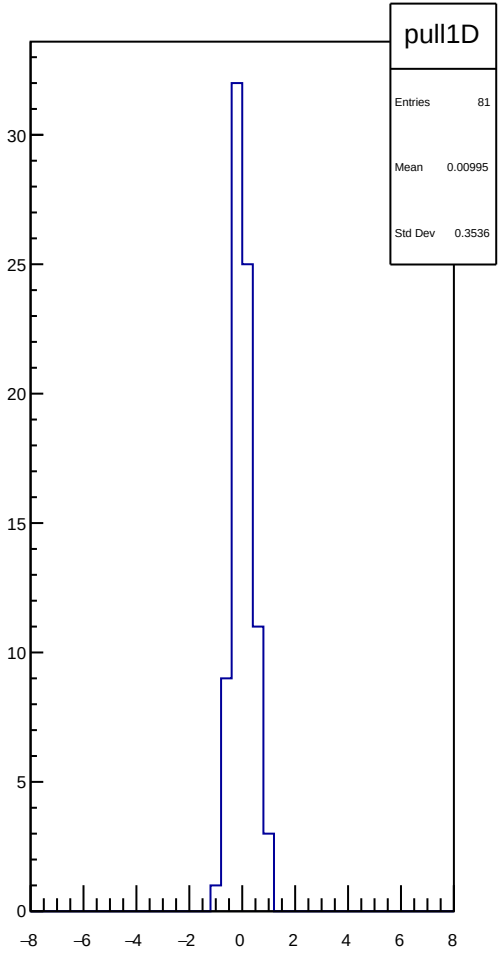

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 10.24 / 80
p0 −33.85 ± 8.987
pull
Entries 81
Mean 78.55
Std Dev 15.65

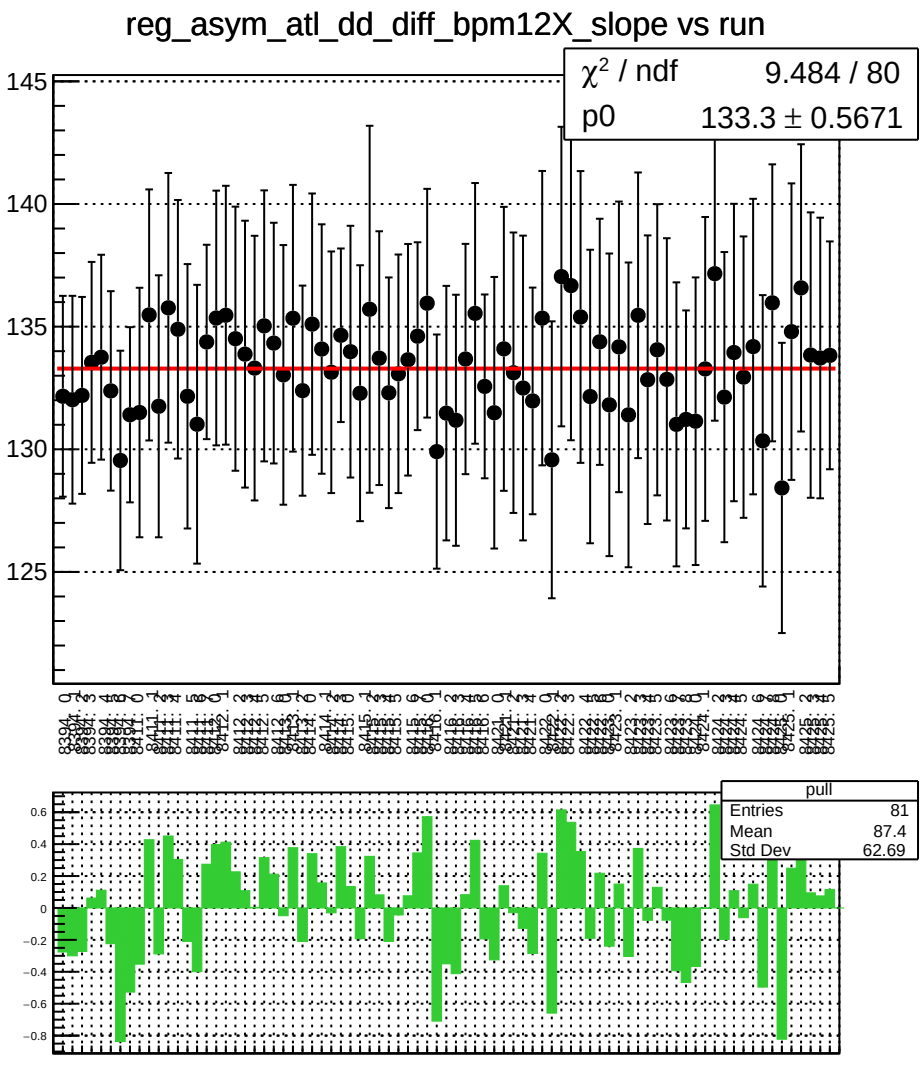

pull1D
Entries 81
Mean −0.00986
Std Dev 0.3554

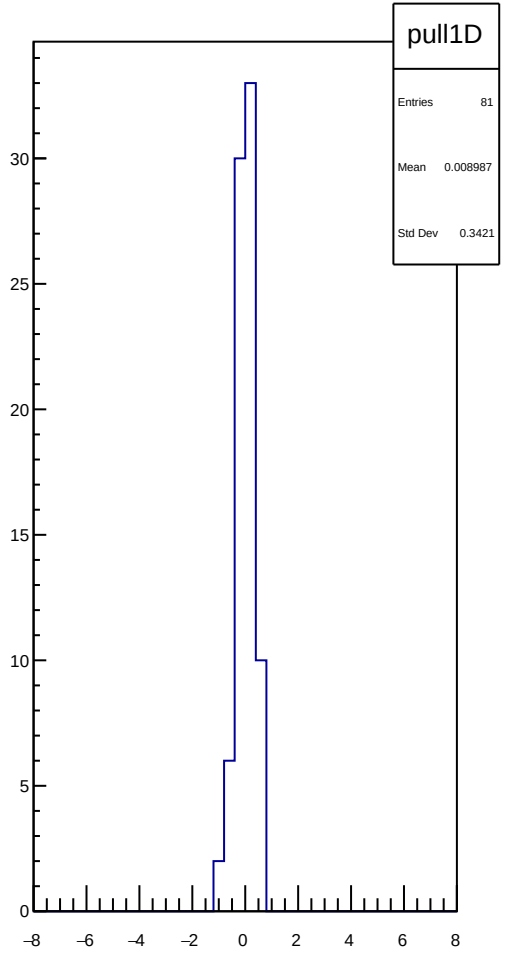

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.1 / 80
p0 −167.4 ± 5.355
pull
Entries 81
Mean −4272
Std Dev 4317

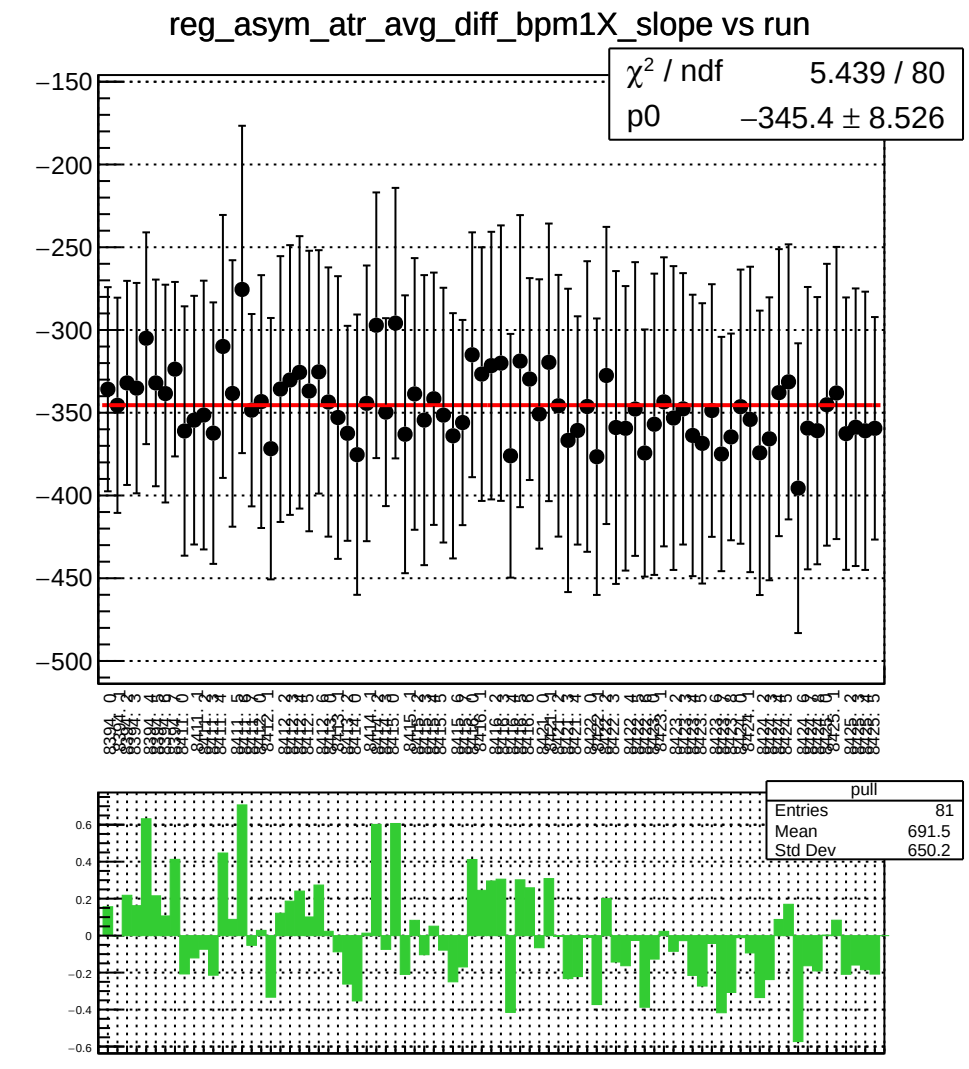

pull1D
Entries 81
Mean 0.0002245
Std Dev 0.3162

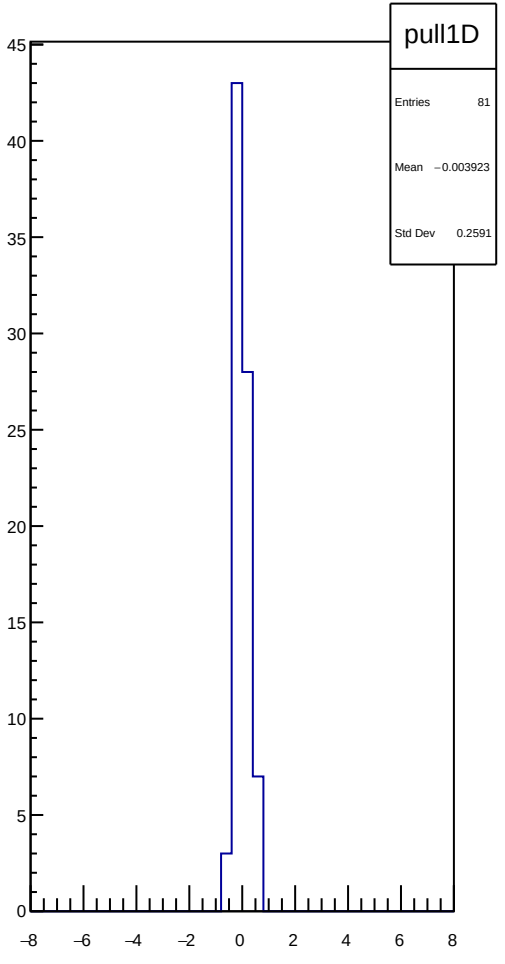

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.13 / 80
p0 −33.3 ± 9.423
pull
Entries 81
Mean 76.61
Std Dev 19.92

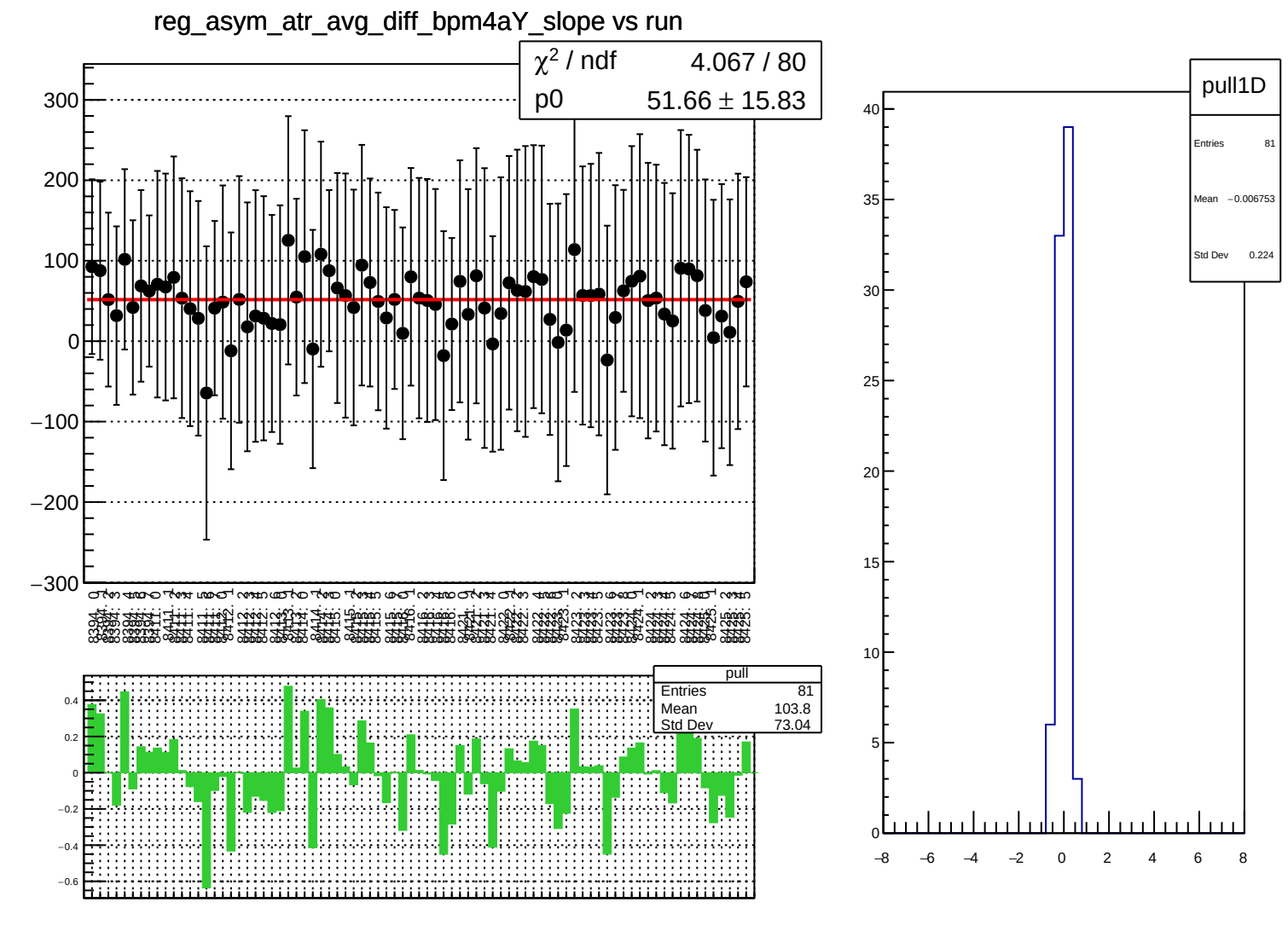

pull1D
Entries 81
Mean 0.00995
Std Dev 0.3536

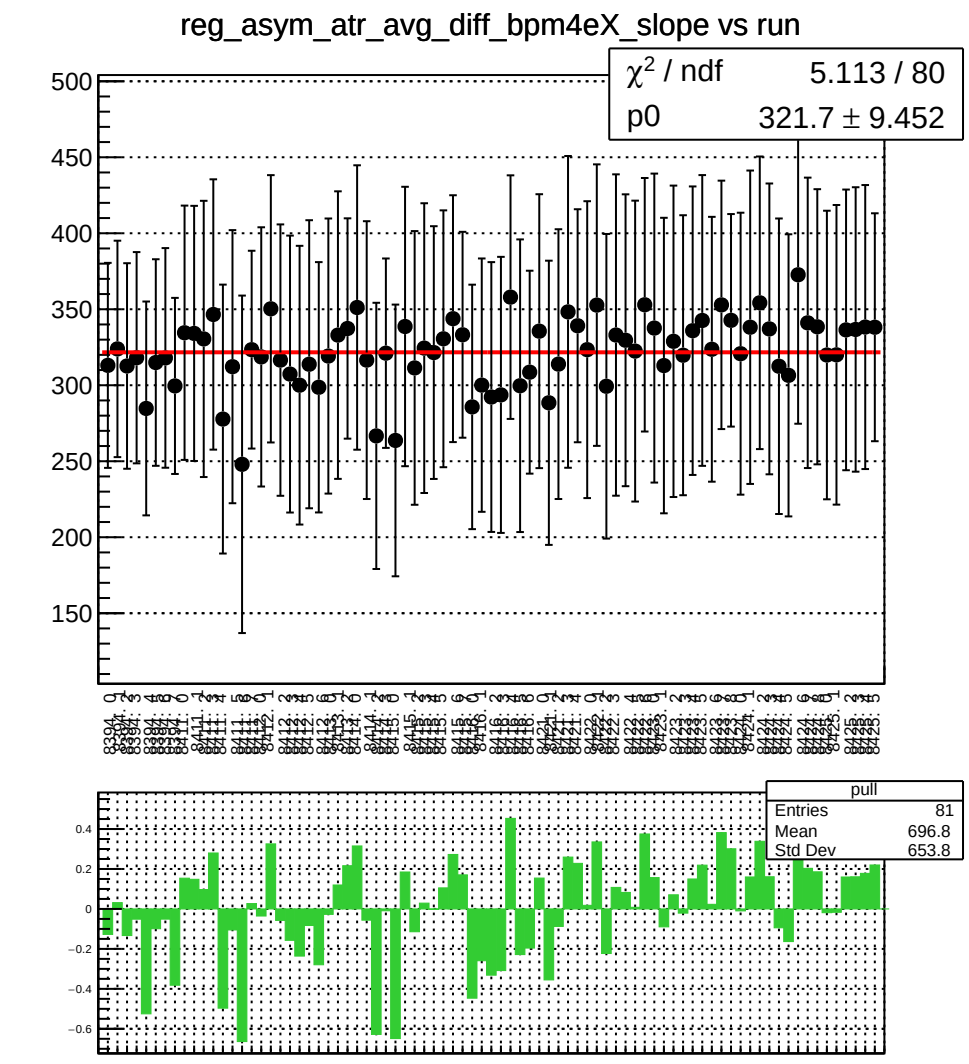

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 9.484 / 80
p0 133.3 ± 0.5671
145
140
135
130
125
pull
Entries 81
Mean 87.4
Std Dev 62.69
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

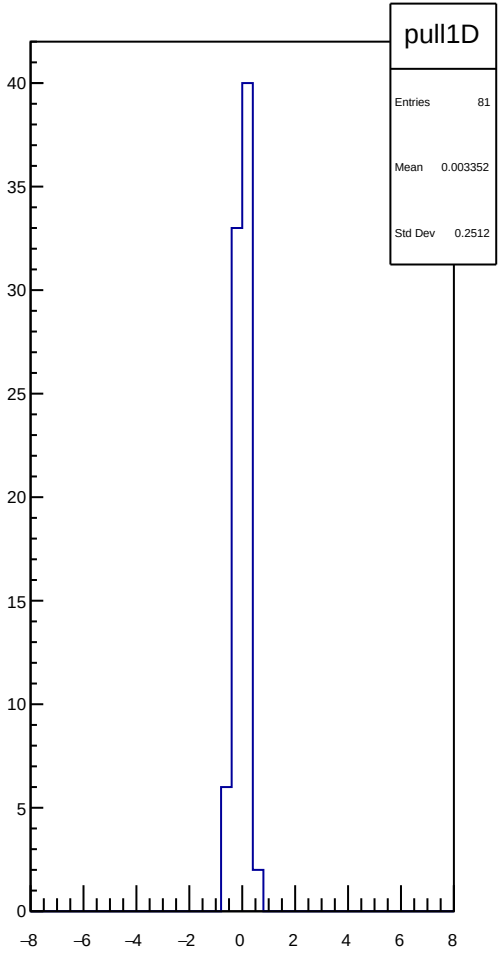

pull1D
Entries 81
Mean 0.008987
Std Dev 0.3421
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

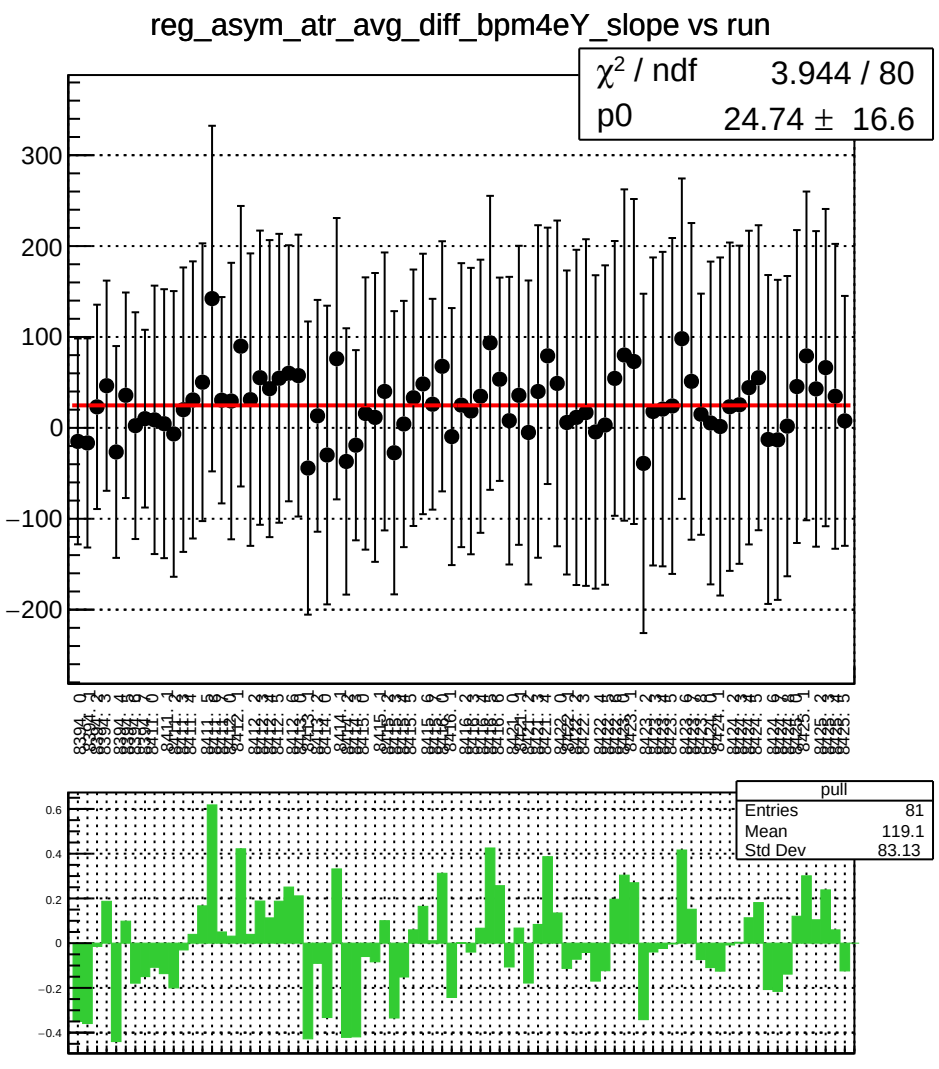

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 5.439 / 80
p0 −345.4 ± 8.526
pull
Entries 81
Mean 691.5
Std Dev 650.2

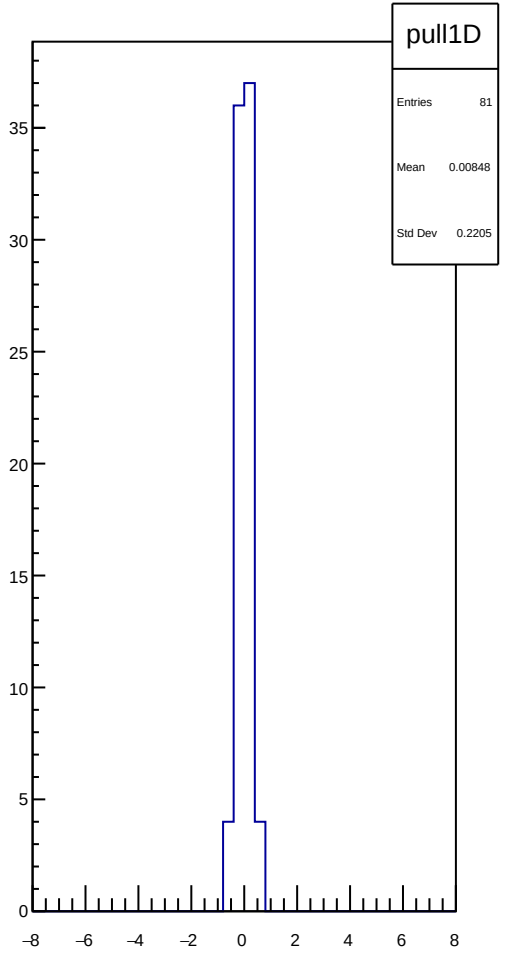

pull1D
Entries 81
Mean −0.003923
Std Dev 0.2591

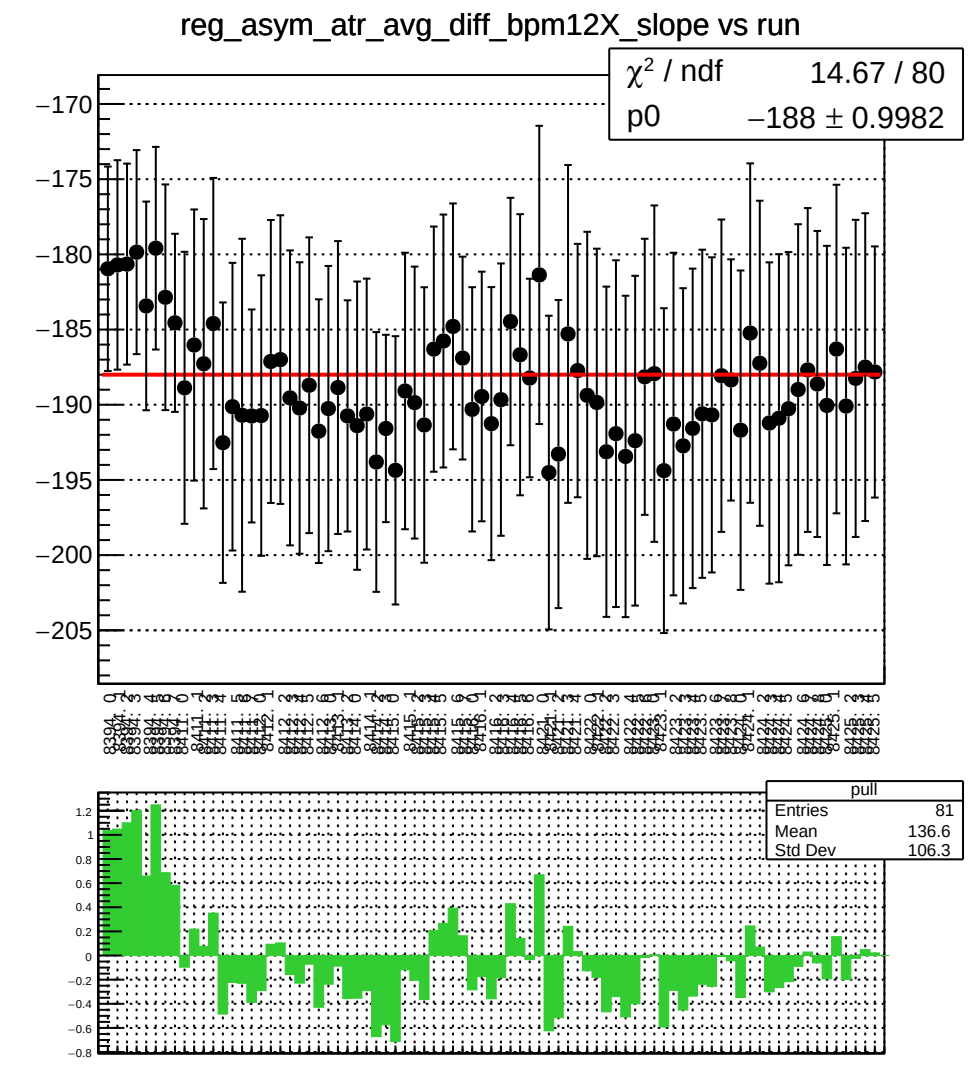

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.067 / 80
p0 51.66 ± 15.83
pull
Entries 81
Mean 103.8
Std Dev 73.04
pull1D
Entries 81
Mean −0.006753
Std Dev 0.224

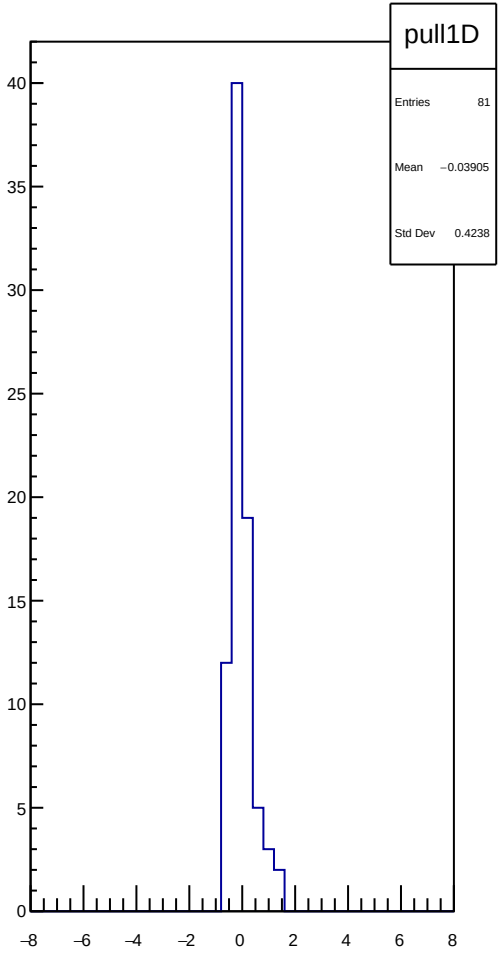

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 5.113 / 80
p0 321.7 ± 9.452
pull
Entries 81
Mean 696.8
Std Dev 653.8

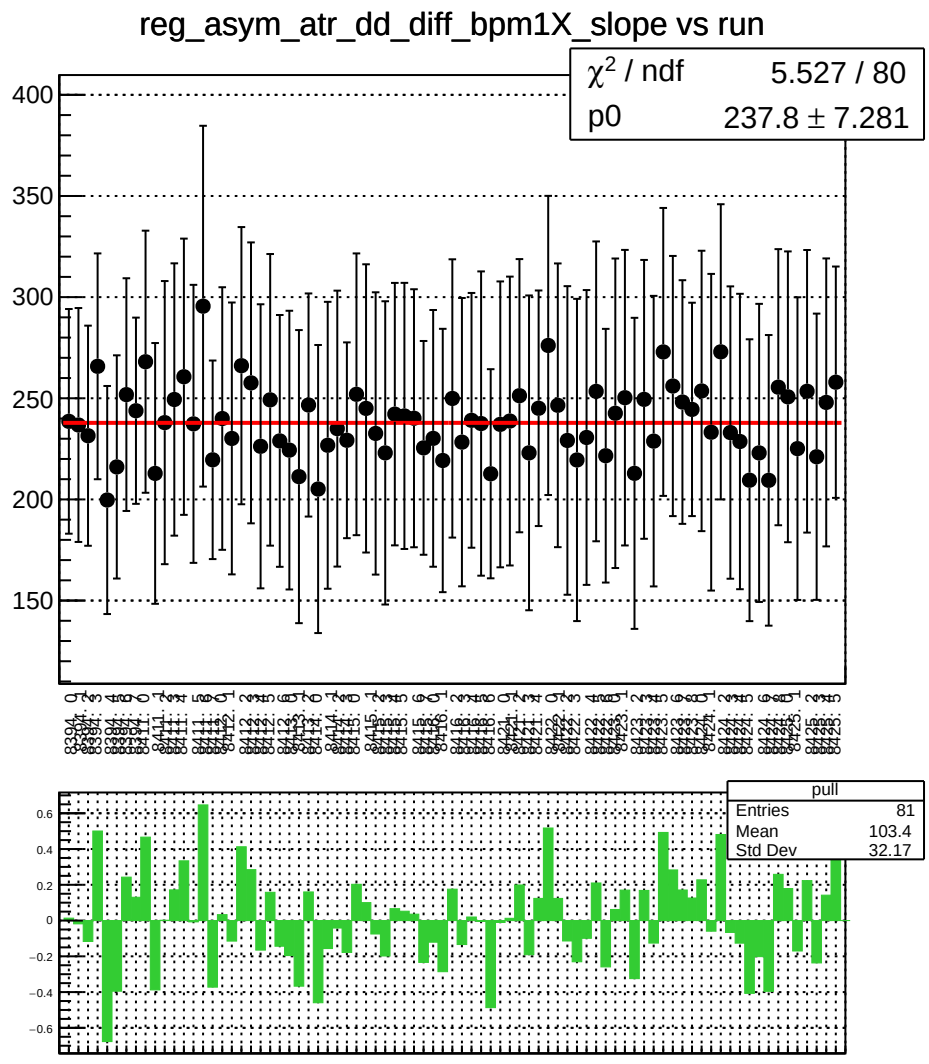

pull1D
Entries 81
Mean 0.003352
Std Dev 0.2512

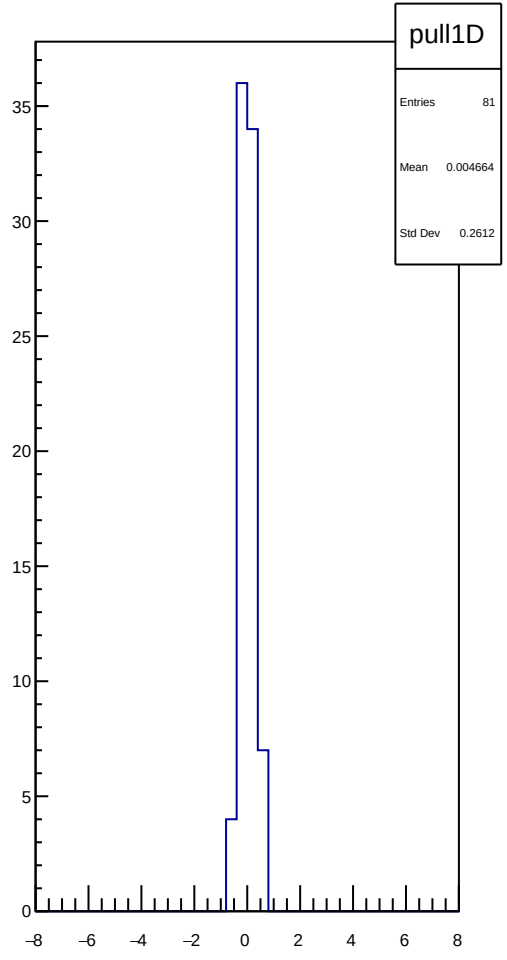

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.944 / 80
p0 24.74 ± 16.6
300
200
100
0
−100
−200
pull
Entries 81
Mean 119.1
Std Dev 83.13
0.6
0.4
0.2
0
−0.2
−0.4

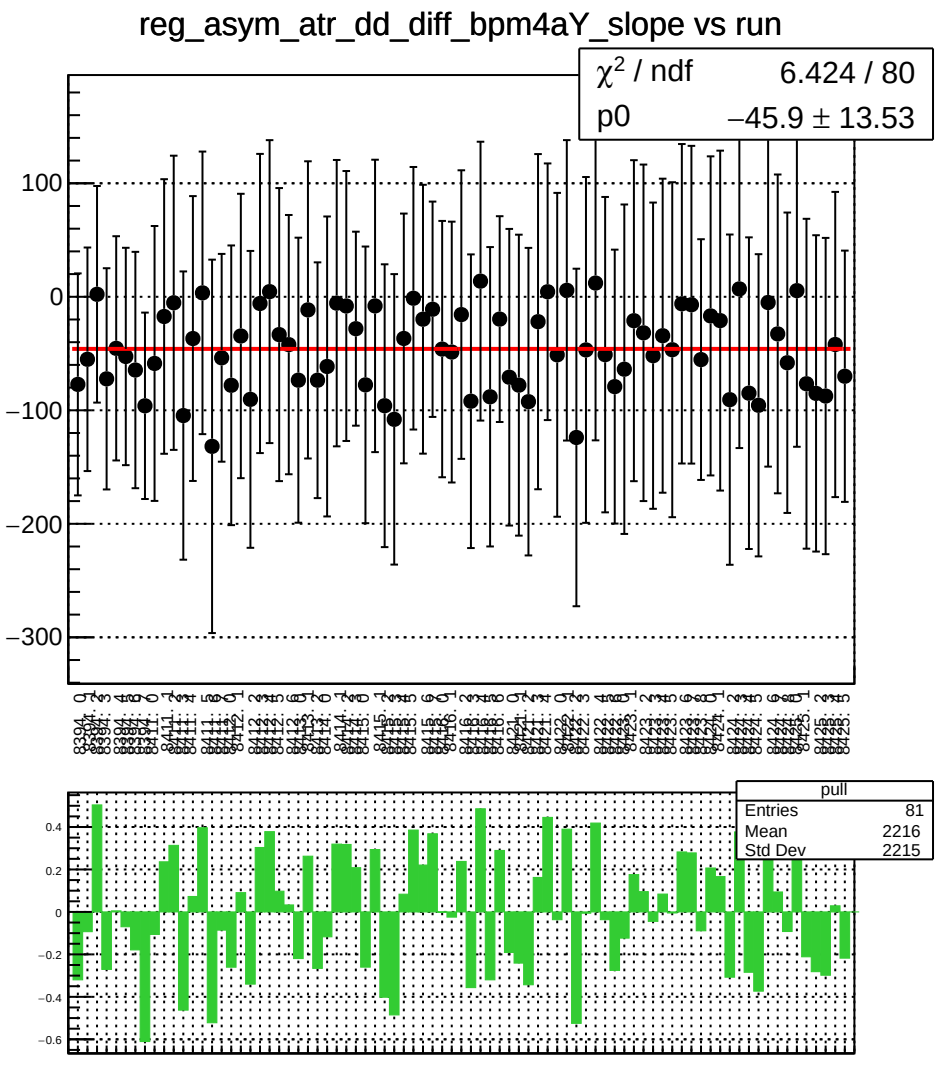

pull1D
Entries 81
Mean 0.00848
Std Dev 0.2205
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

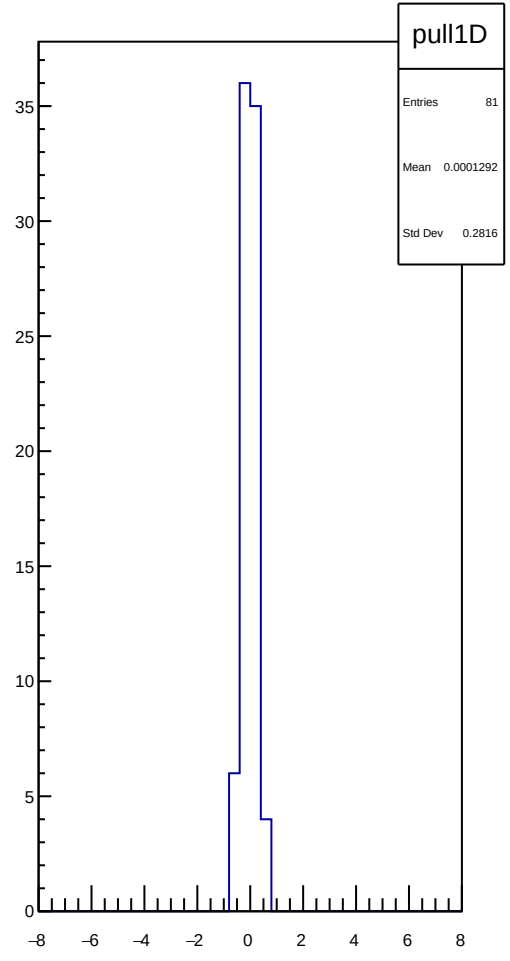

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 14.67 / 80
p0 −188 ± 0.9982
pull
Entries 81
Mean 136.6
Std Dev 106.3

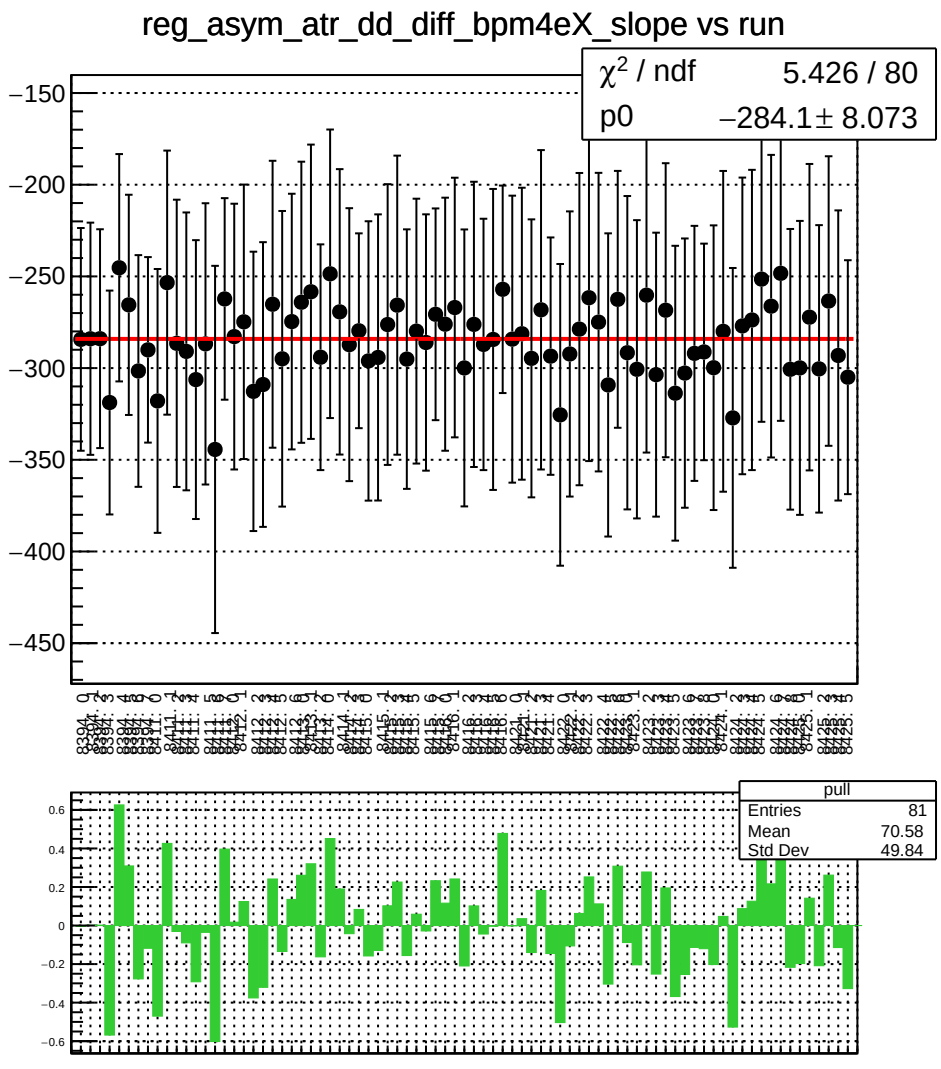

pull1D
Entries 81
Mean −0.03905
Std Dev 0.4238

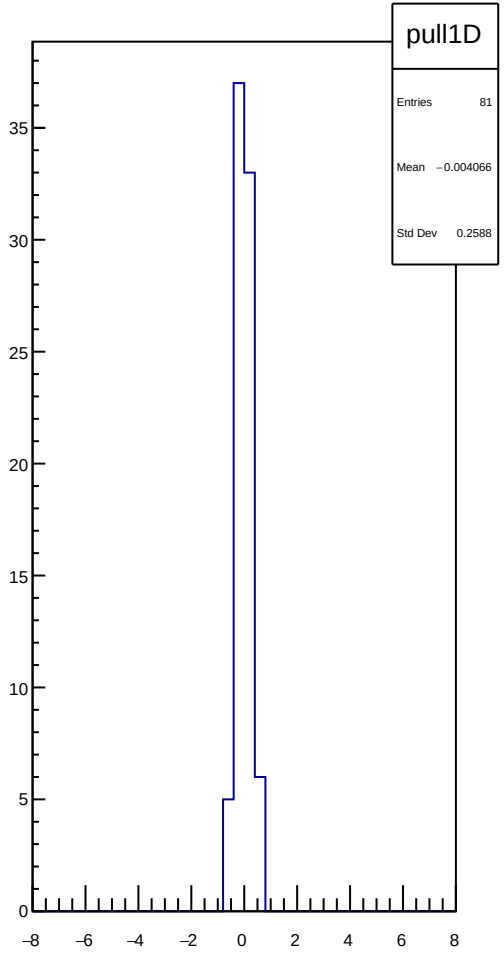

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 5.527 / 80
p0 237.8 ± 7.281
pull
Entries 81
Mean 103.4
Std Dev 32.17

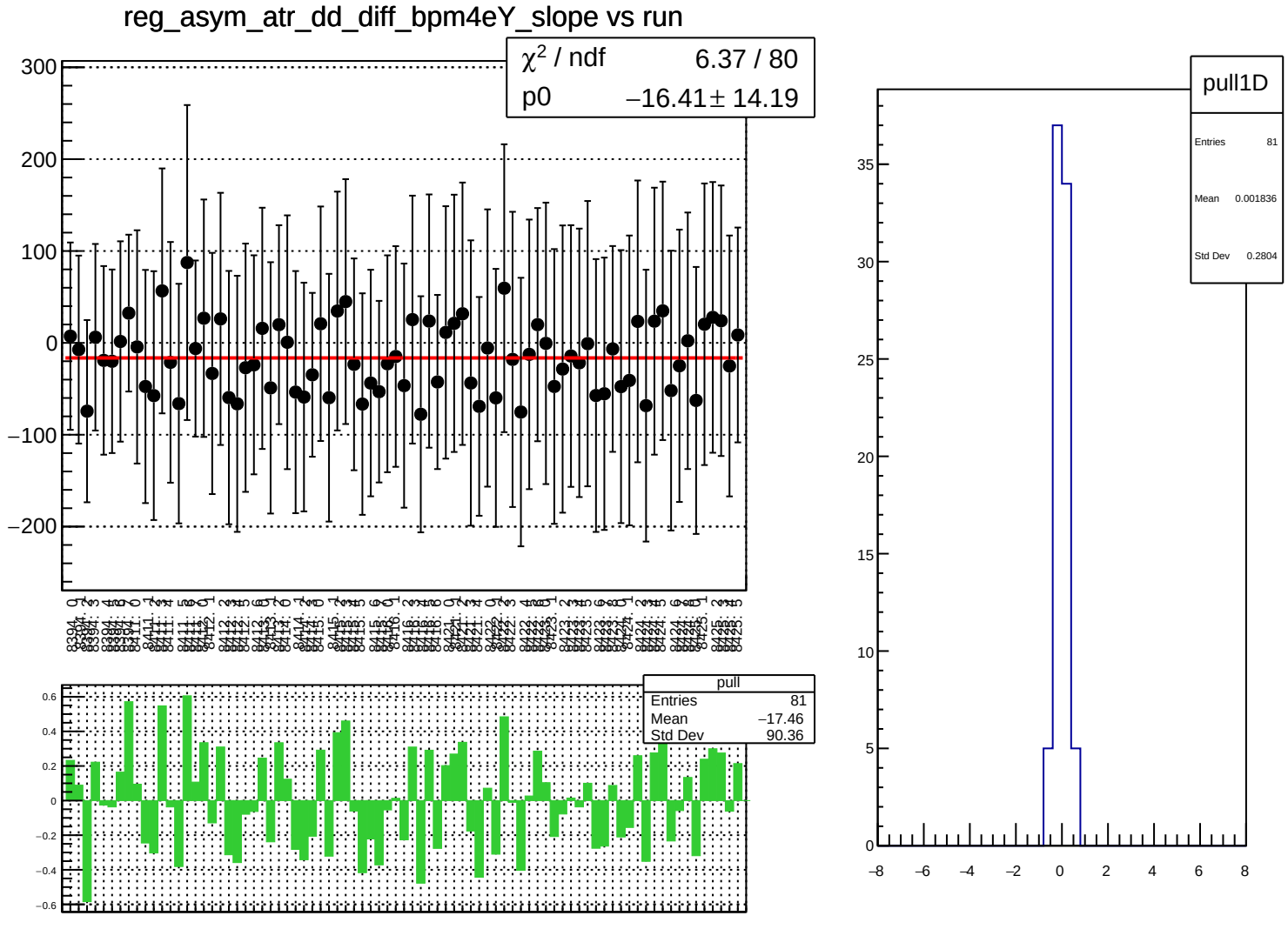

pull1D
Entries 81
Mean 0.004664
Std Dev 0.2612

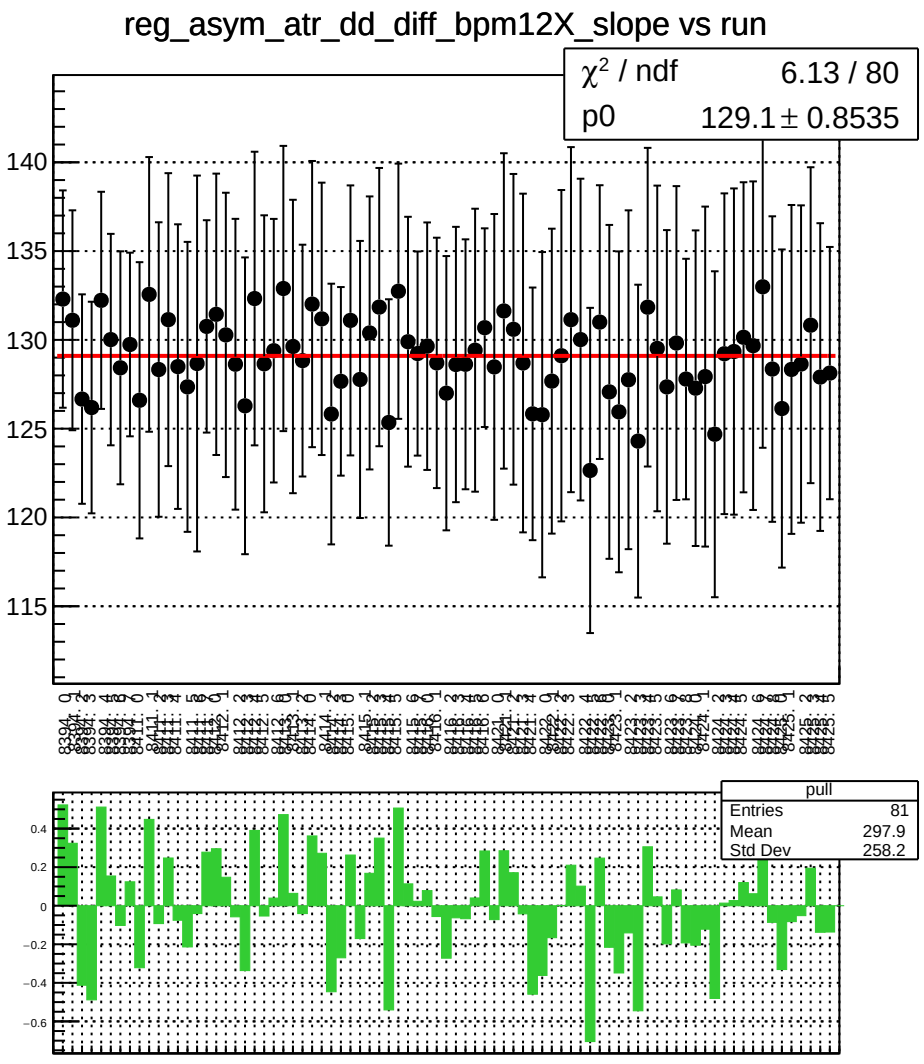

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.424 / 80
p0 −45.9 ± 13.53
pull
Entries 81
Mean 2216
Std Dev 2215

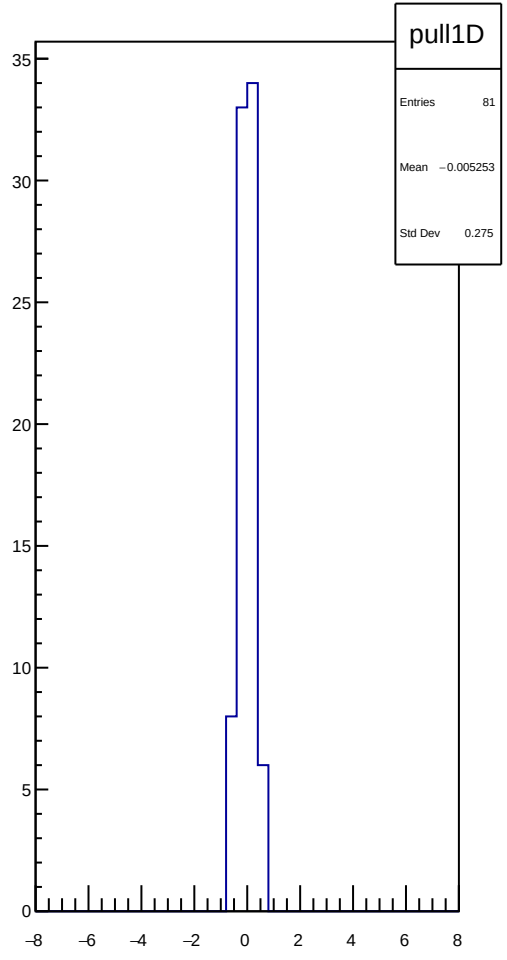

pull1D
Entries 81
Mean 0.0001292
Std Dev 0.2816

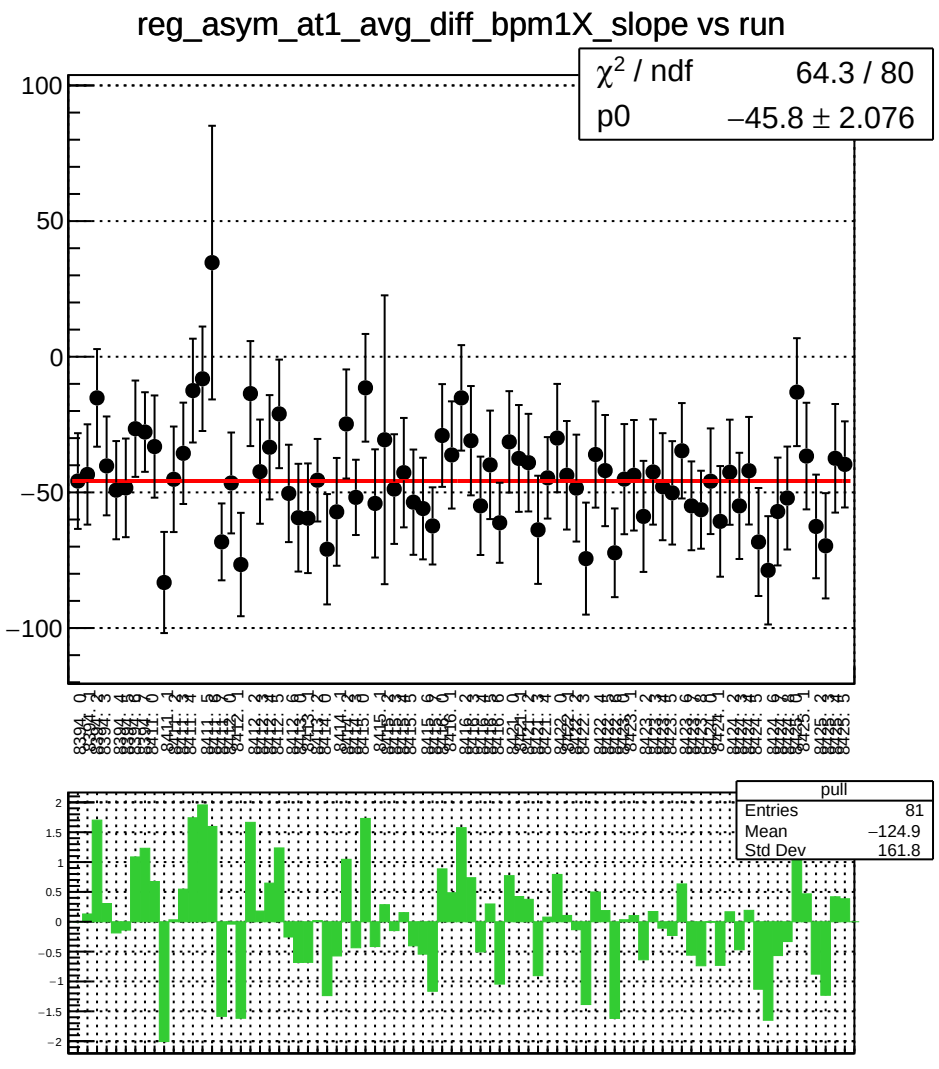

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.426 / 80
p0 −284.1± 8.073
−150
−200
−250
−300
−350
−400
−450
pull
Entries 81
Mean 70.58
Std Dev 49.84
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

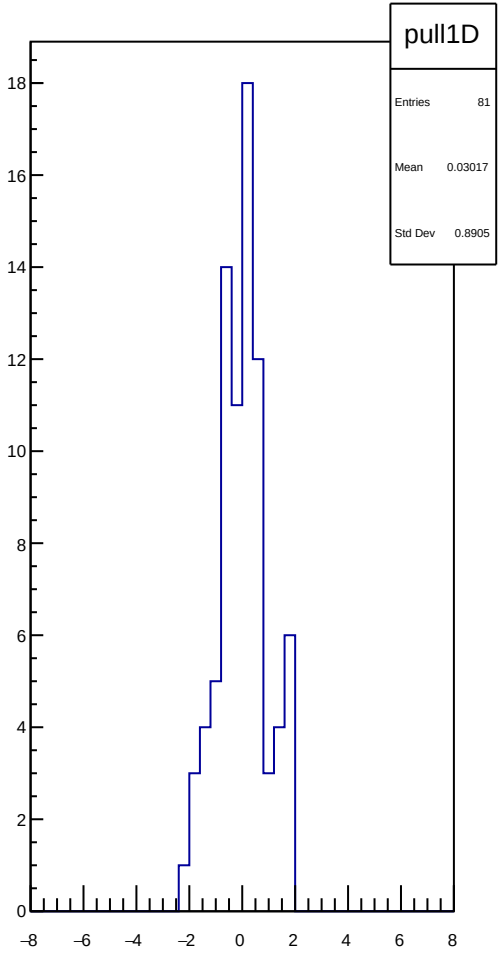

pull1D
Entries 81
Mean −0.004066
Std Dev 0.2588
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

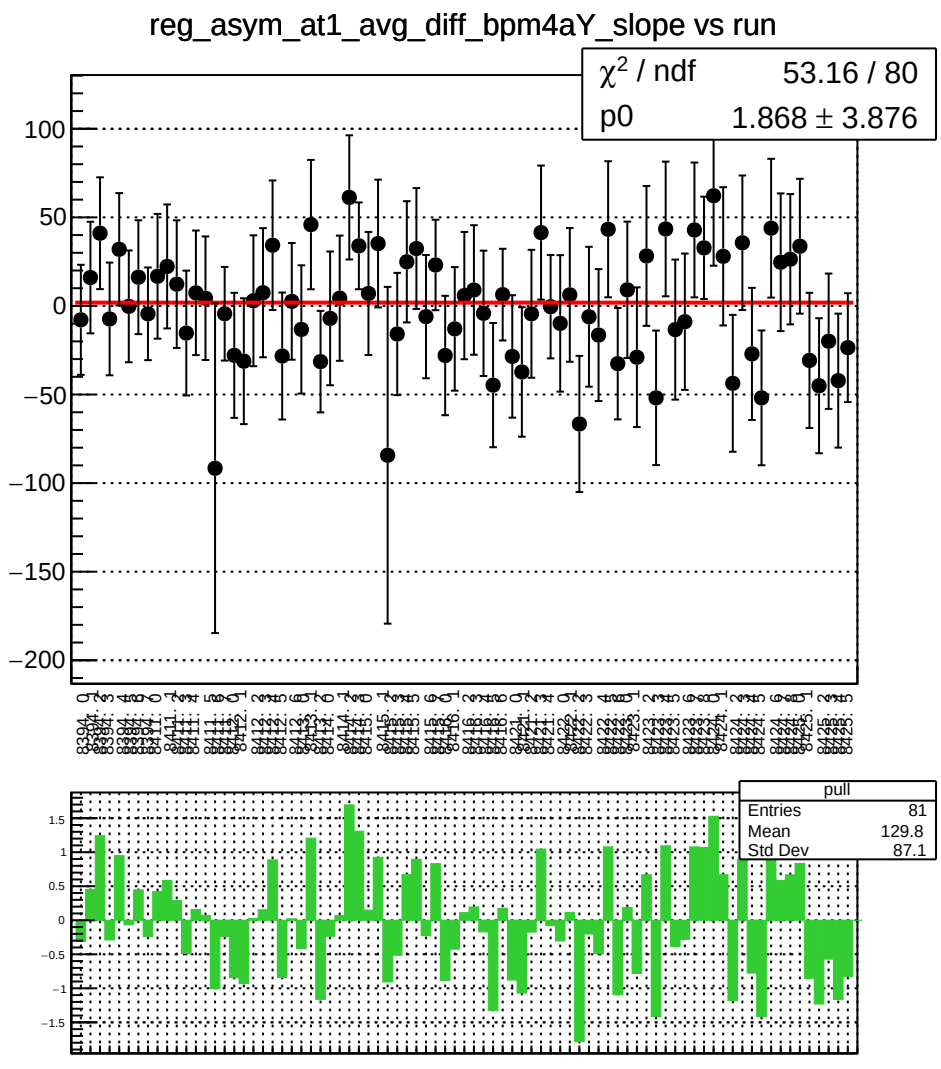

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.37 / 80
p0 −16.41 ± 14.19
pull
Entries 81
Mean −17.46
Std Dev 90.36
pull1D
Entries 81
Mean 0.001836
Std Dev 0.2804

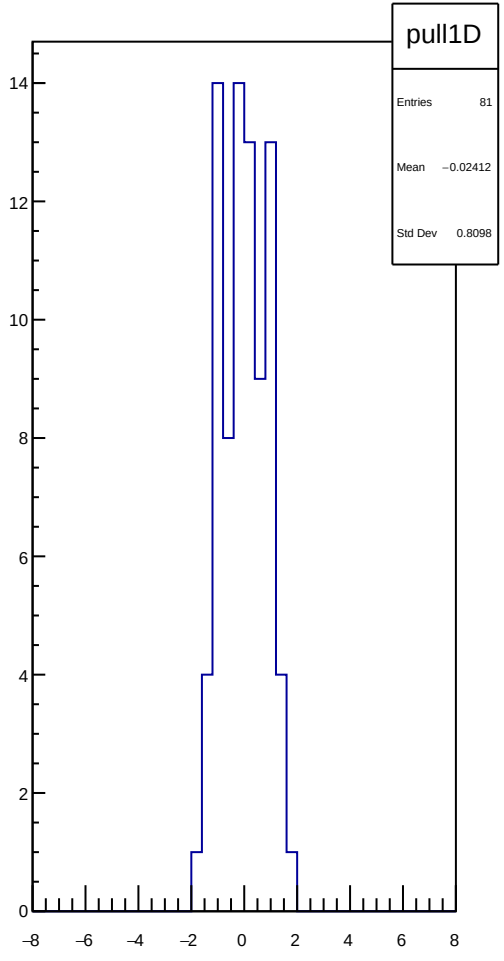

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 6.13 / 80
p0 129.1 ± 0.8535
140
135
130
125
120
115
pull
Entries 81
Mean 297.9
Std Dev 258.2
0.4
0.2
0
−0.2
−0.4
−0.6

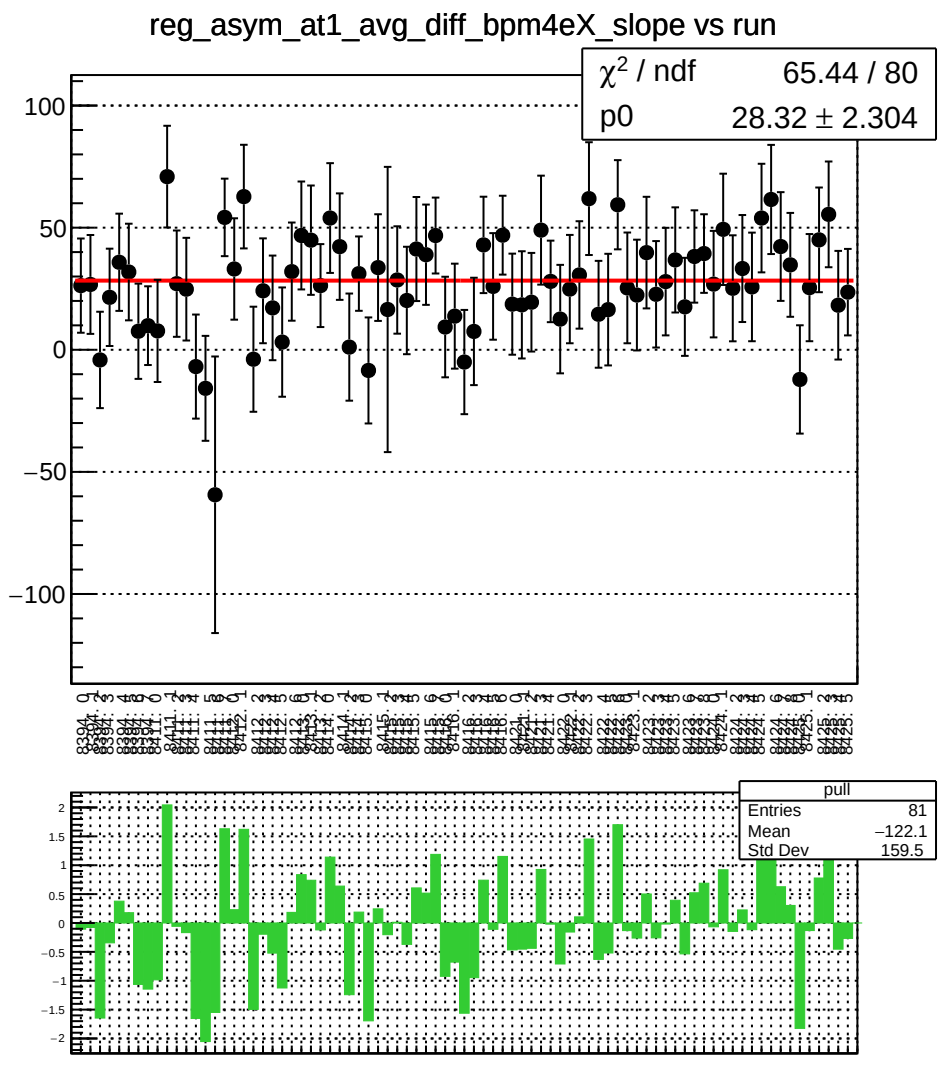

pull1D
Entries 81
Mean −0.005253
Std Dev 0.275
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

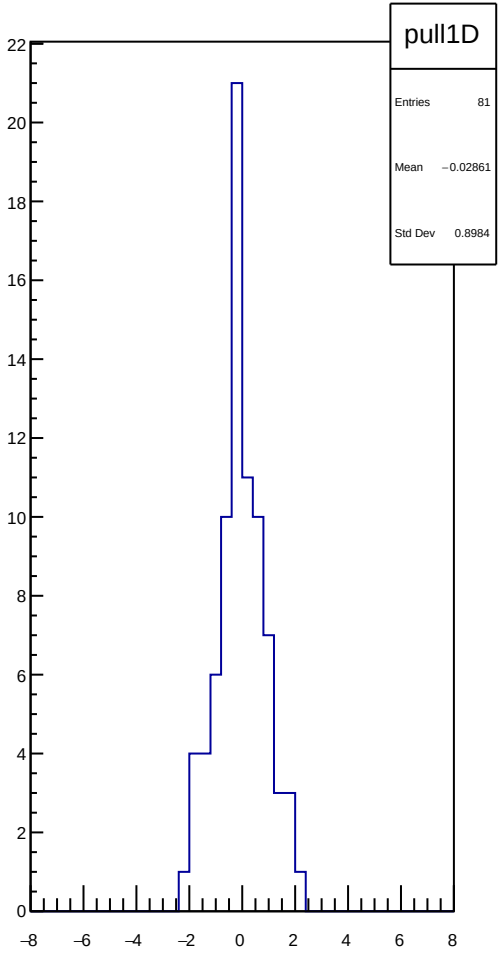

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 64.3 / 80
p0 −45.8 ± 2.076
pull
Entries 81
Mean −124.9
Std Dev 161.8

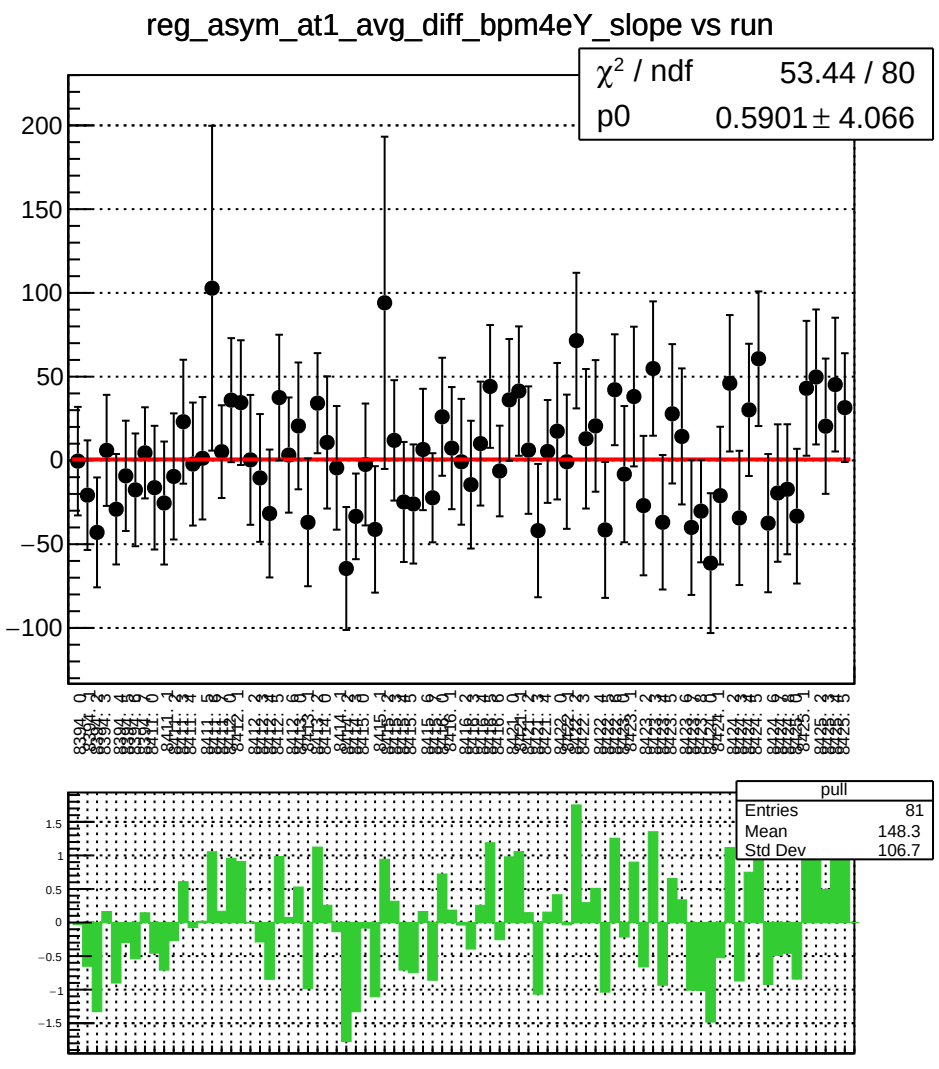

pull1D
Entries 81
Mean 0.03017
Std Dev 0.8905

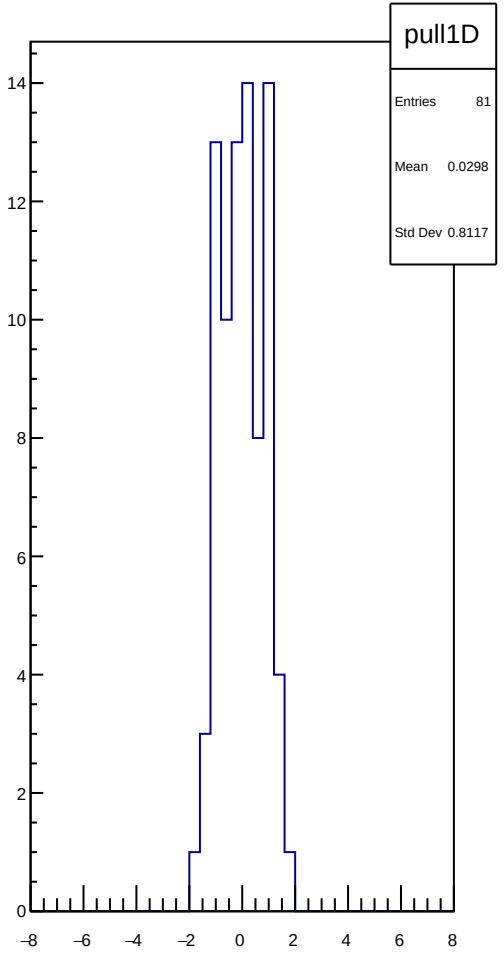

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 53.16 / 80
p0 1.868 ± 3.876
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean 129.8
Std Dev 87.1
1.5
1
0.5
0
−0.5
−1
−1.5

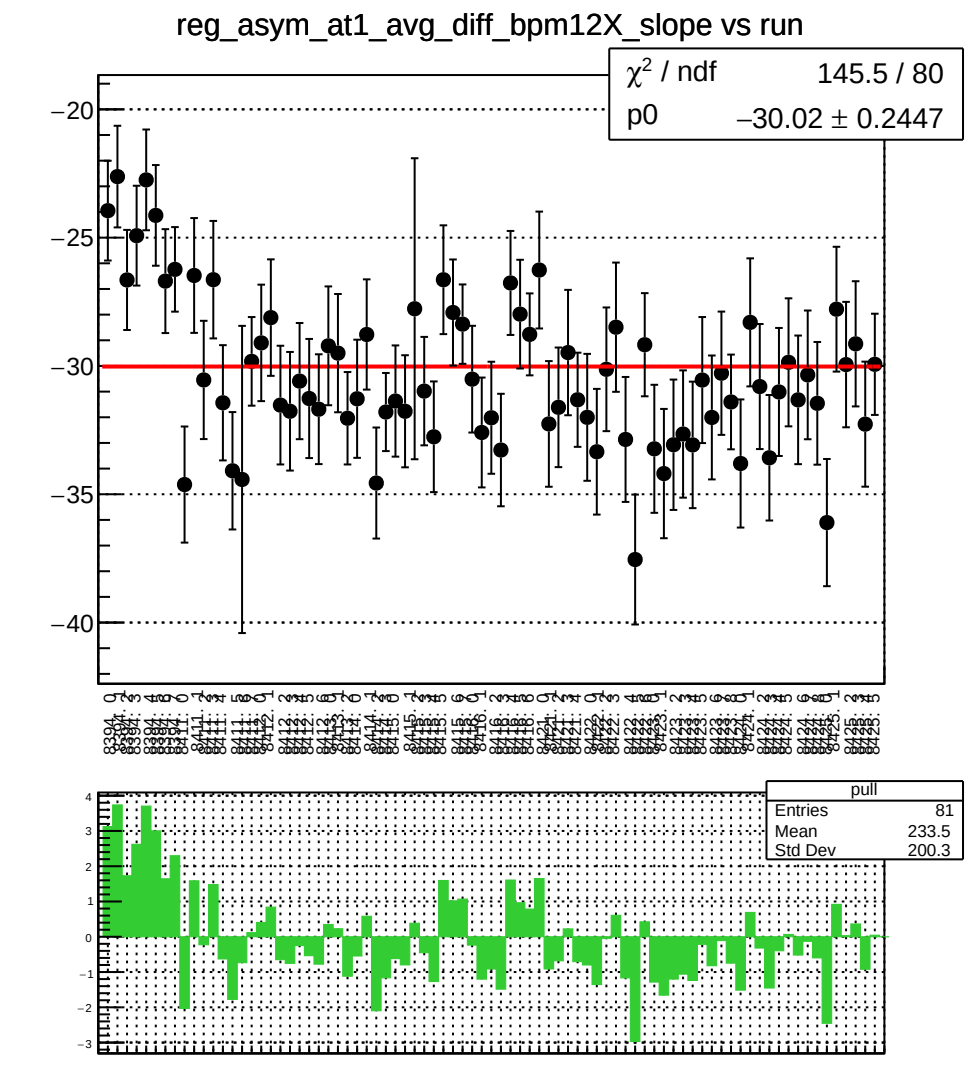

pull1D
Entries 81
Mean −0.02412
Std Dev 0.8098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

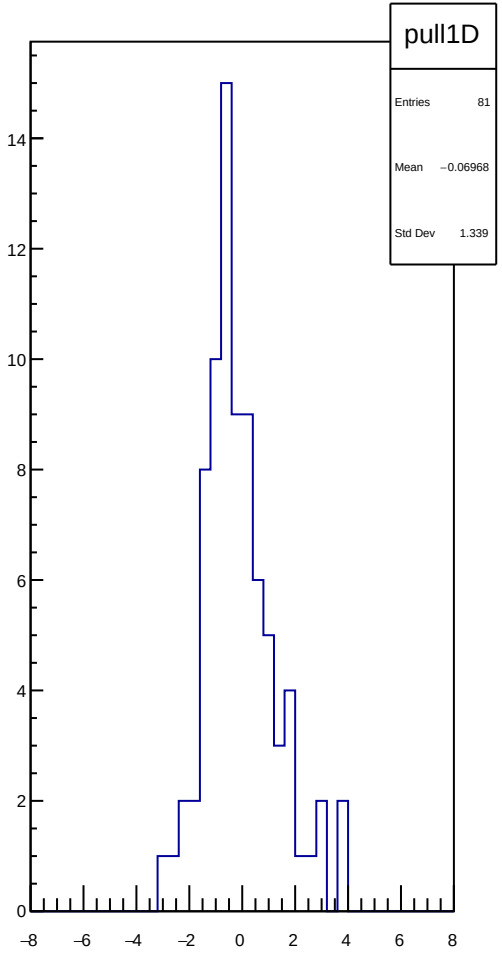

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.44 / 80
p0 28.32 ± 2.304
pull
Entries 81
Mean −122.1
Std Dev 159.5

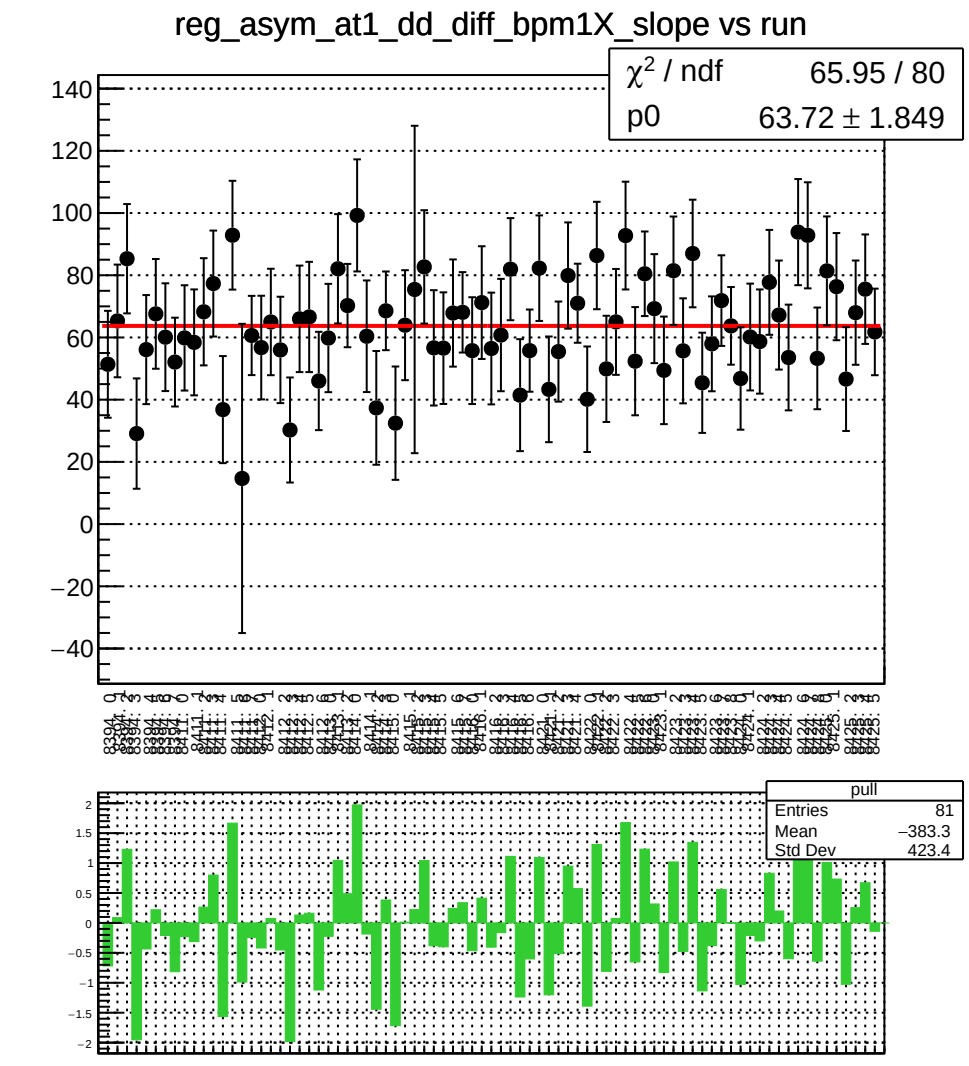

pull1D
Entries 81
Mean −0.02861
Std Dev 0.8984

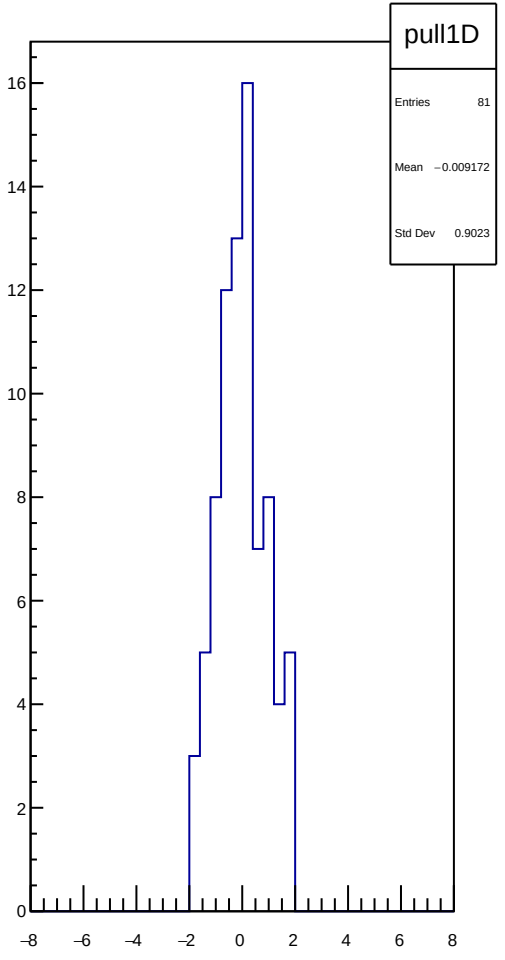

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 53.44 / 80
p0 0.5901 ± 4.066
pull
Entries 81
Mean 148.3
Std Dev 106.7

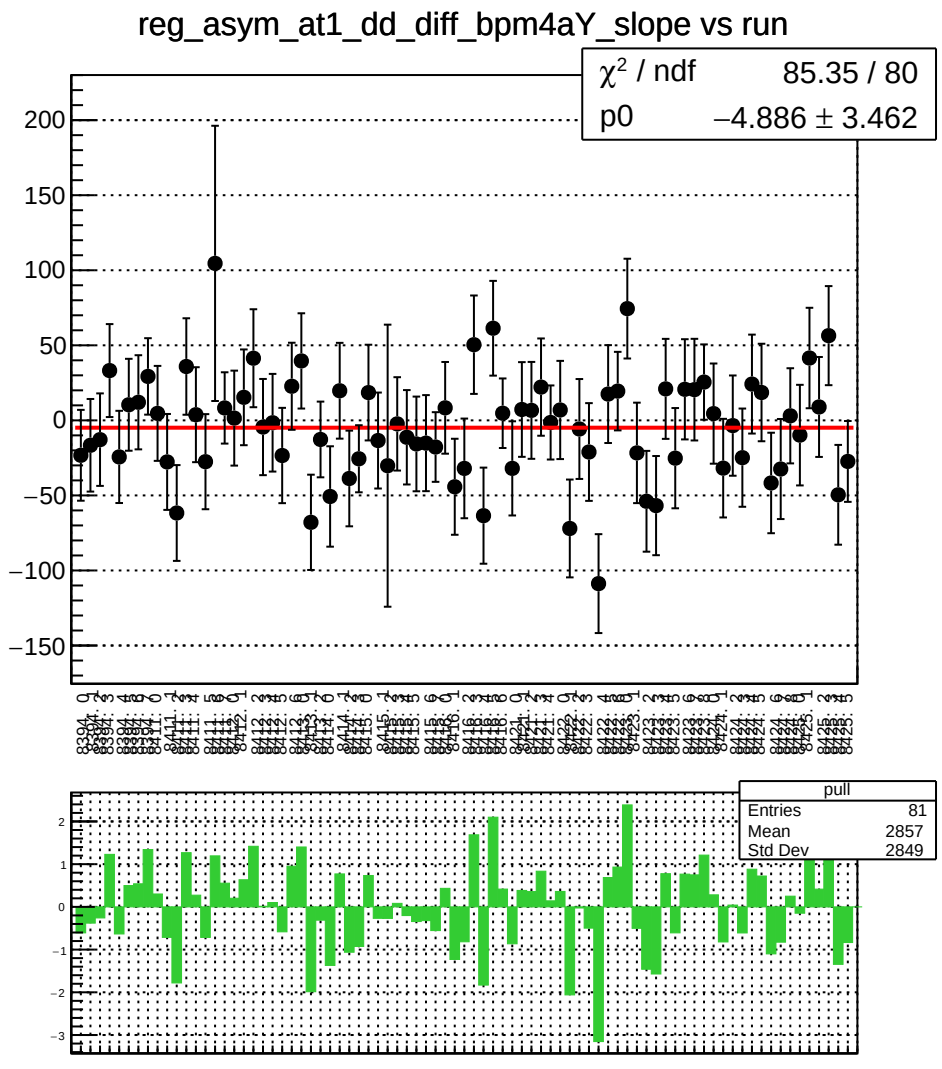

pull1D
Entries 81
Mean 0.0298
Std Dev 0.8117

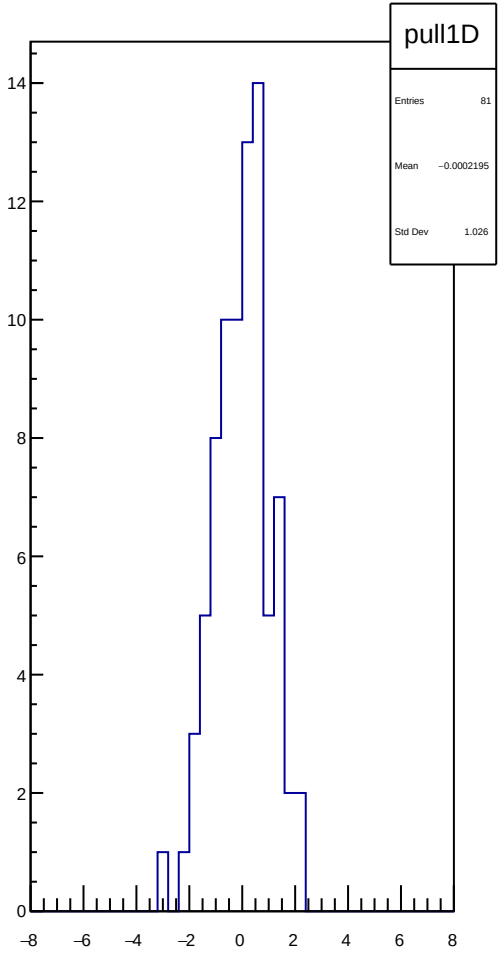

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 145.5 / 80
p0 −30.02 ± 0.2447
pull
Entries 81
Mean 233.5
Std Dev 200.3

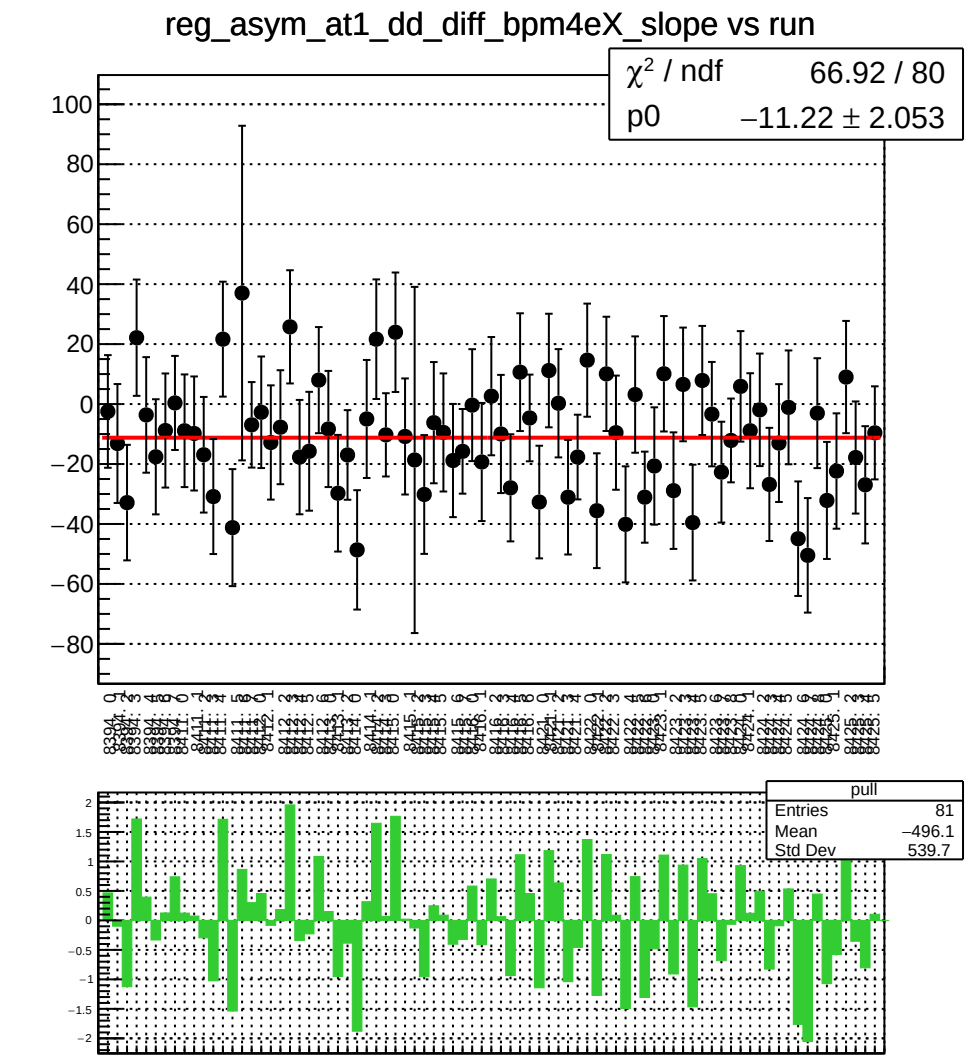

pull1D
Entries 81
Mean −0.06968
Std Dev 1.339

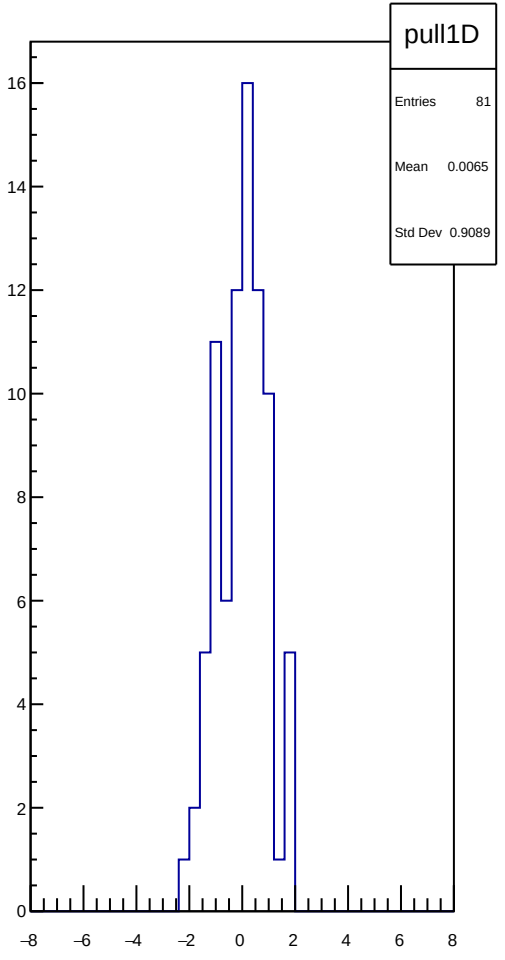

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 65.95 / 80
p0 63.72 ± 1.849
pull
Entries 81
Mean −383.3
Std Dev 423.4

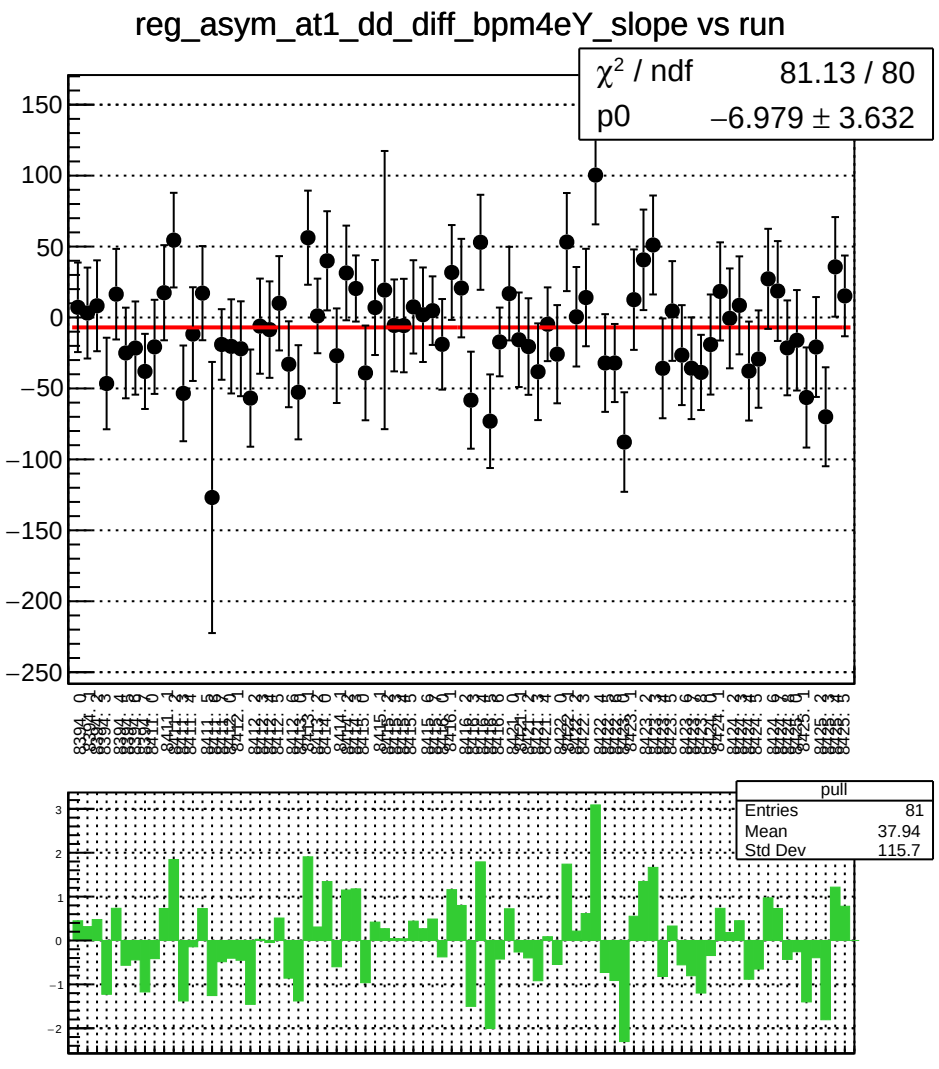

pull1D
Entries 81
Mean −0.009172
Std Dev 0.9023

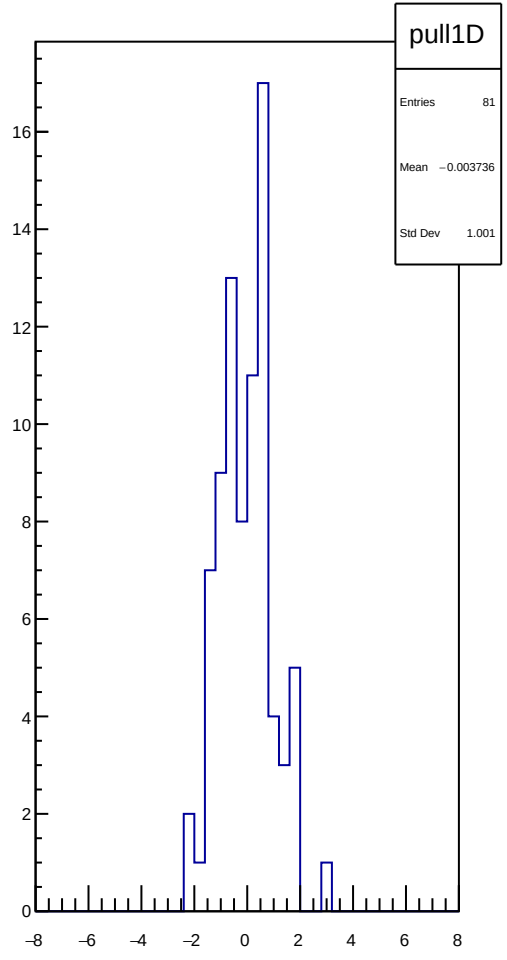

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.35 / 80
p0 −4.886 ± 3.462
pull
Entries 81
Mean 2857
Std Dev 2849

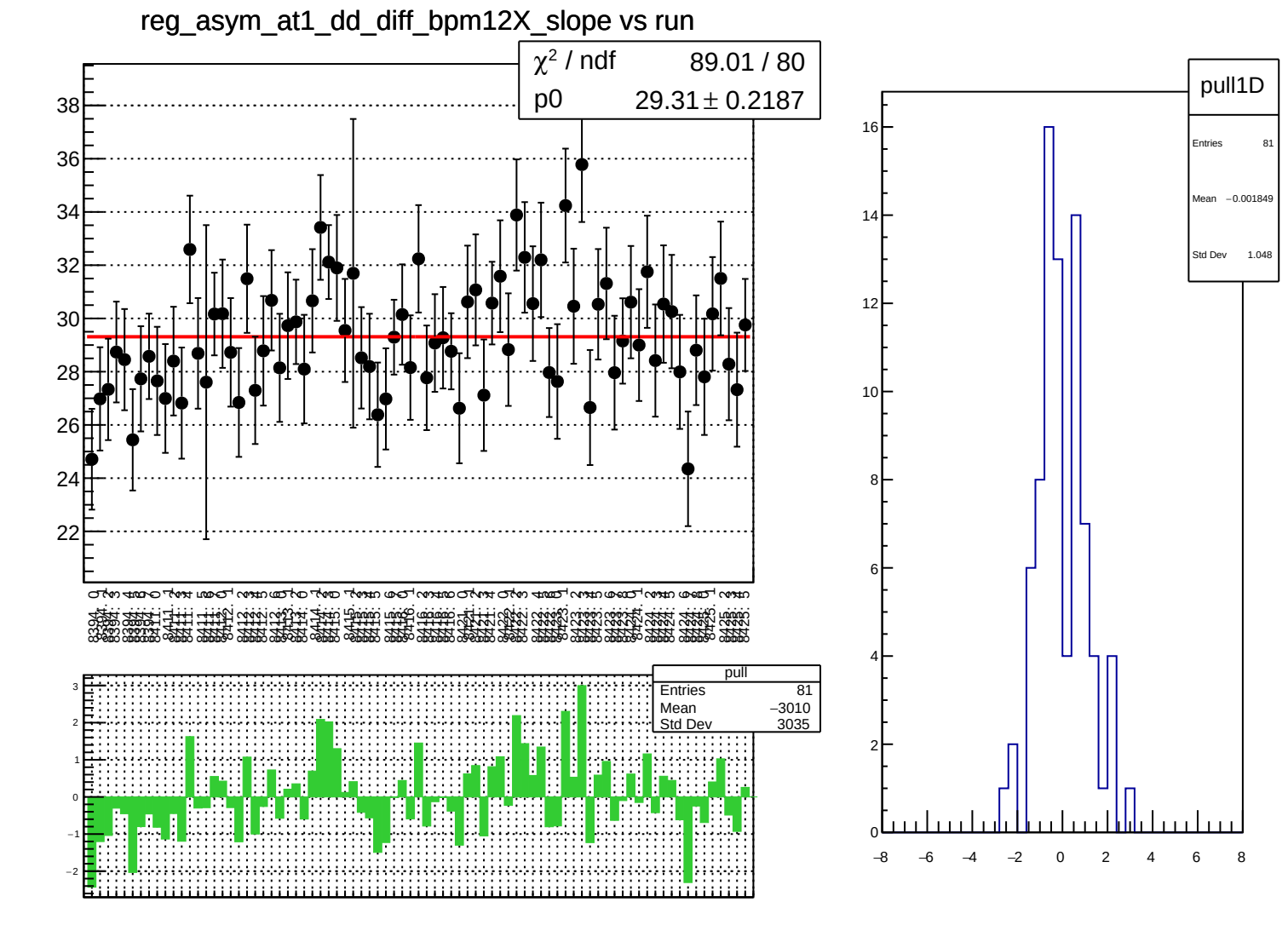

pull1D
Entries 81
Mean −0.0002195
Std Dev 1.026

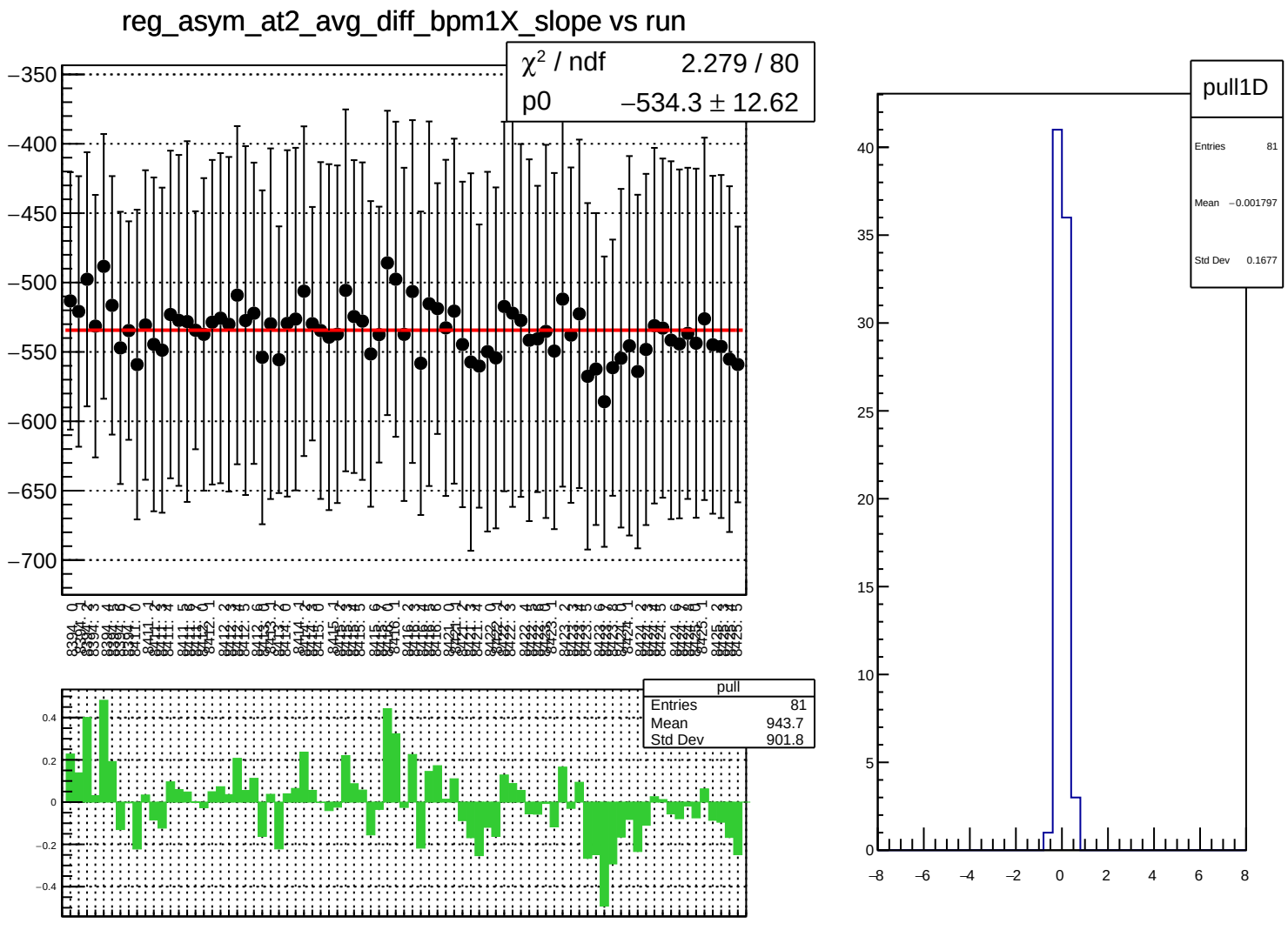

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.92 / 80
p0 −11.22 ± 2.053
pull
Entries 81
Mean −496.1
Std Dev 539.7

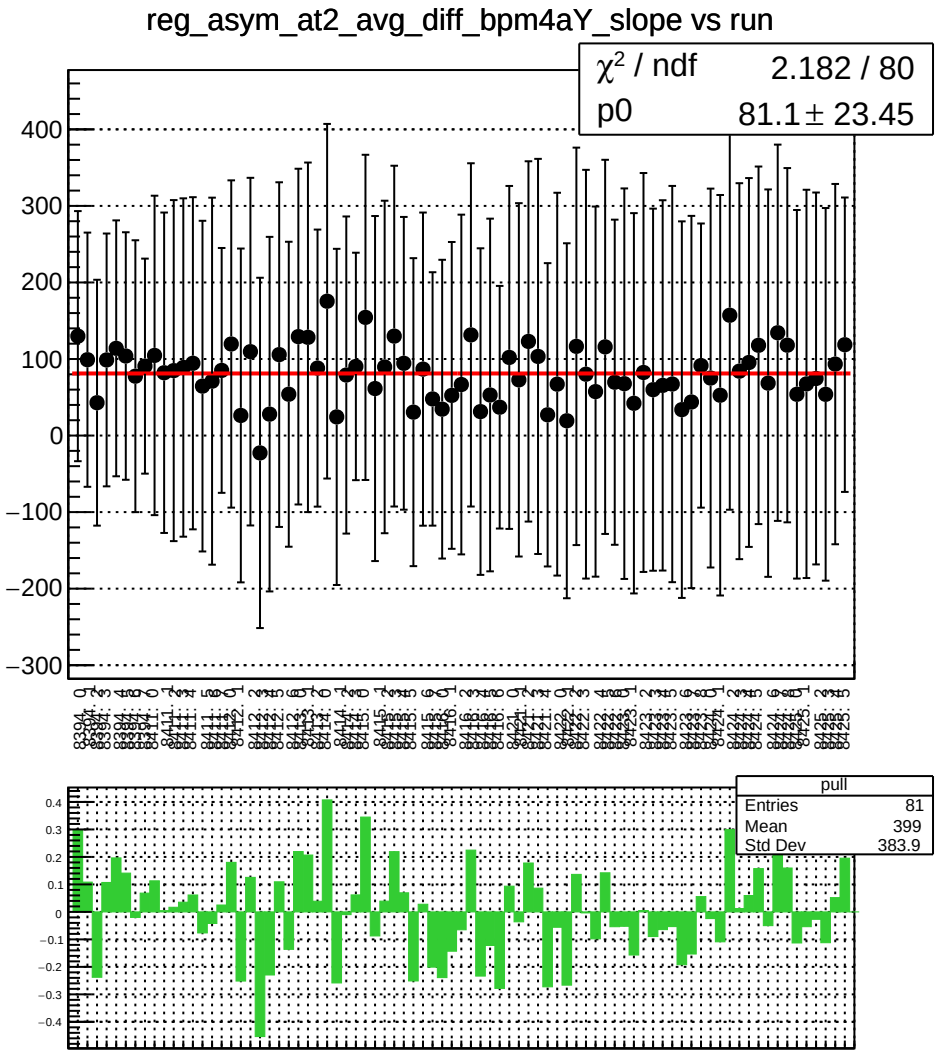

pull1D
Entries 81
Mean 0.0065
Std Dev 0.9089

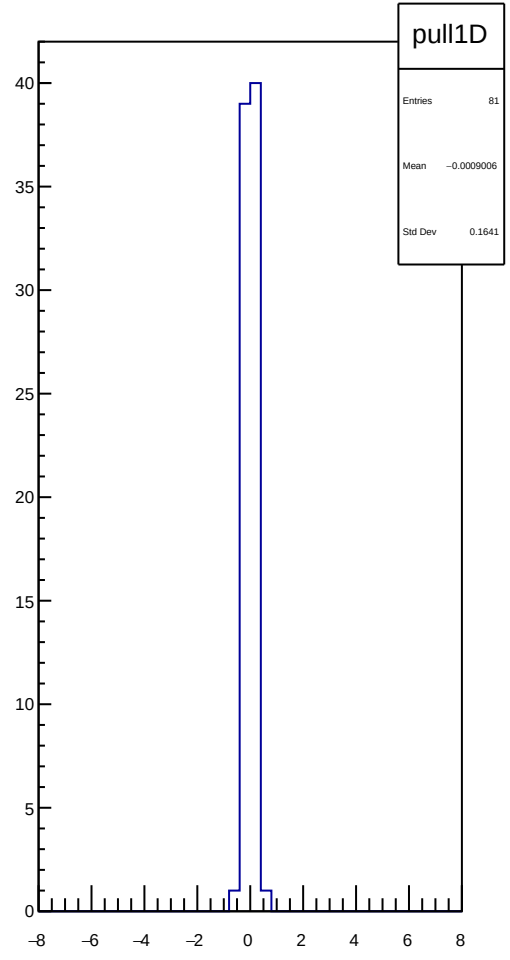

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.13 / 80
p0 −6.979 ± 3.632
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 81
Mean 37.94
Std Dev 115.7
3
2
1
0
−1
−2

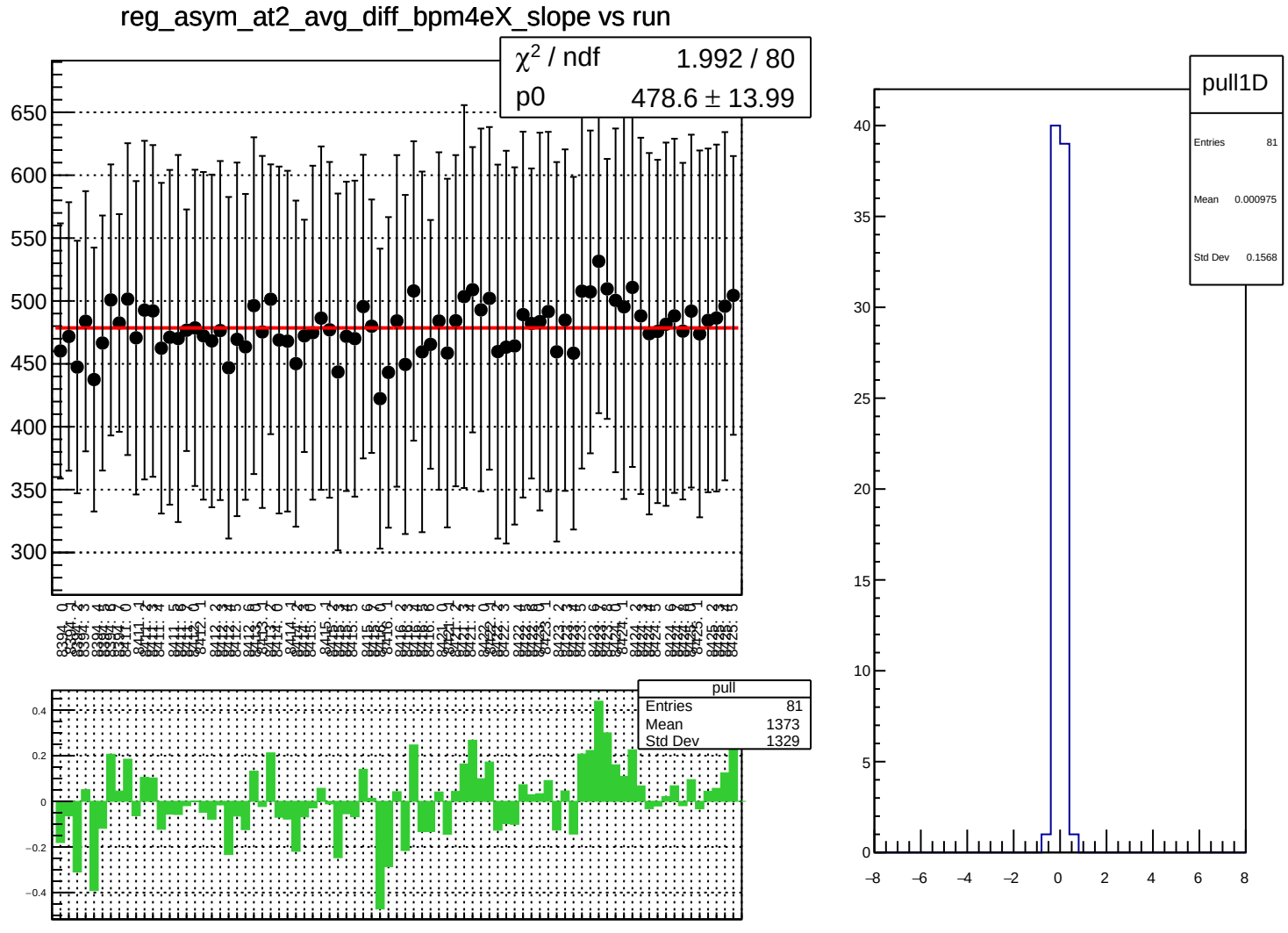

pull1D
Entries 81
Mean −0.003736
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

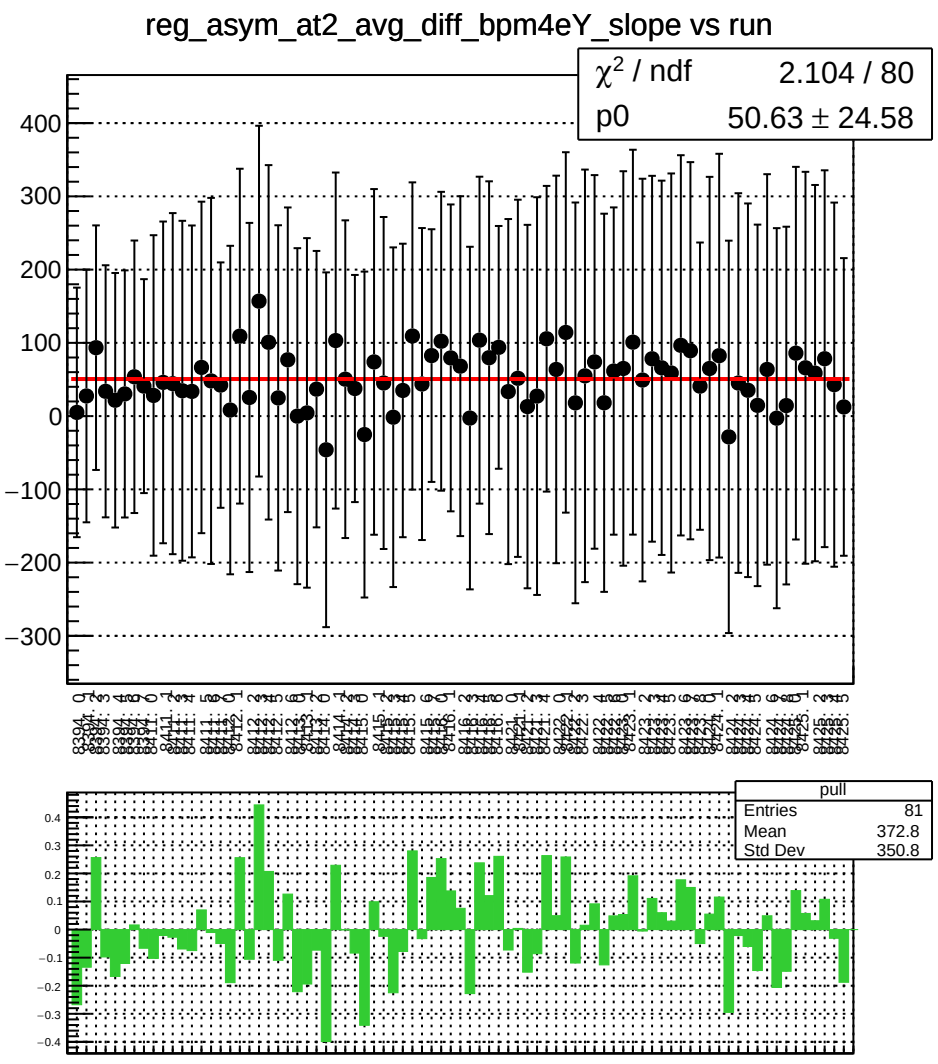

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 89.01 / 80
p0 29.31 ± 0.2187
pull
Entries 81
Mean −3010
Std Dev 3035
pull1D
Entries 81
Mean −0.001849
Std Dev 1.048

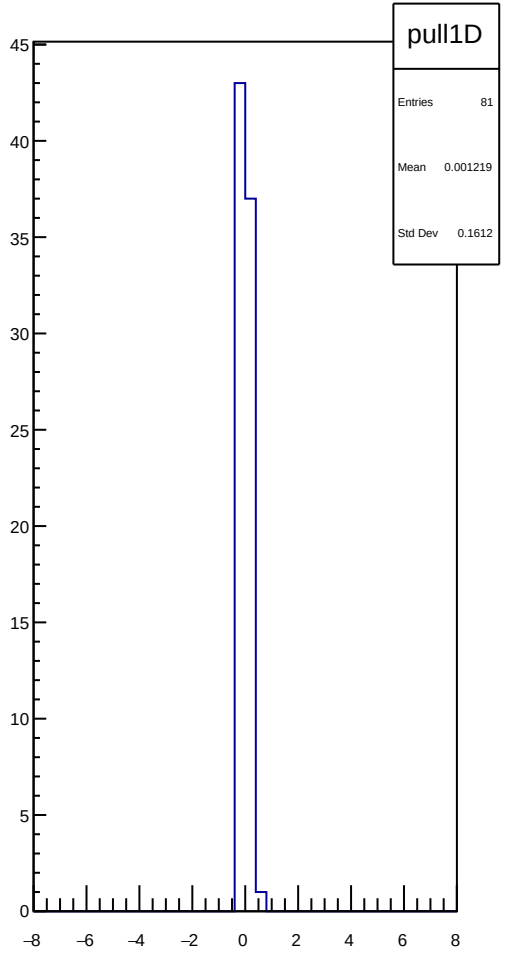

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 2.279 / 80
p0 −534.3 ± 12.62
pull
Entries 81
Mean 943.7
Std Dev 901.8
pull1D
Entries 81
Mean −0.001797
Std Dev 0.1677

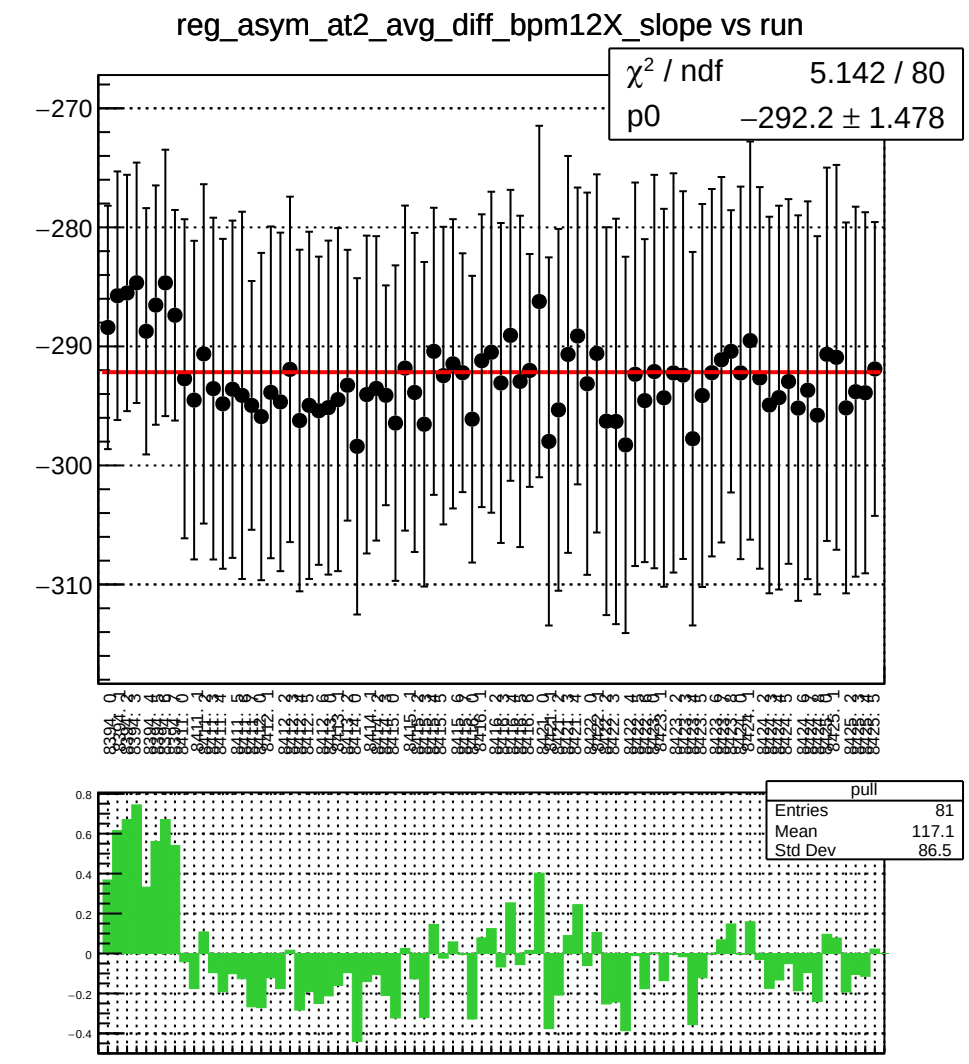

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.182 / 80
p0 81.1 ± 23.45
pull
Entries 81
Mean 399
Std Dev 383.9

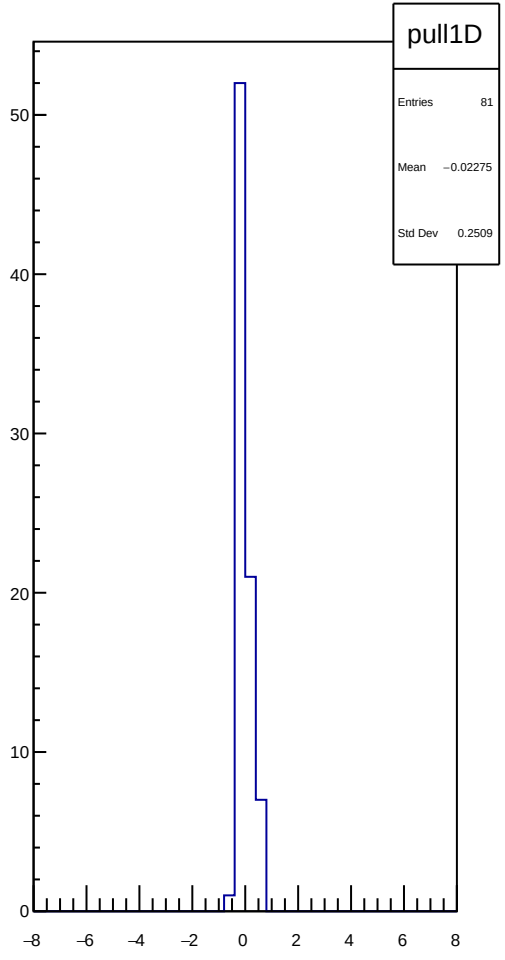

pull1D
Entries 81
Mean −0.0009006
Std Dev 0.1641

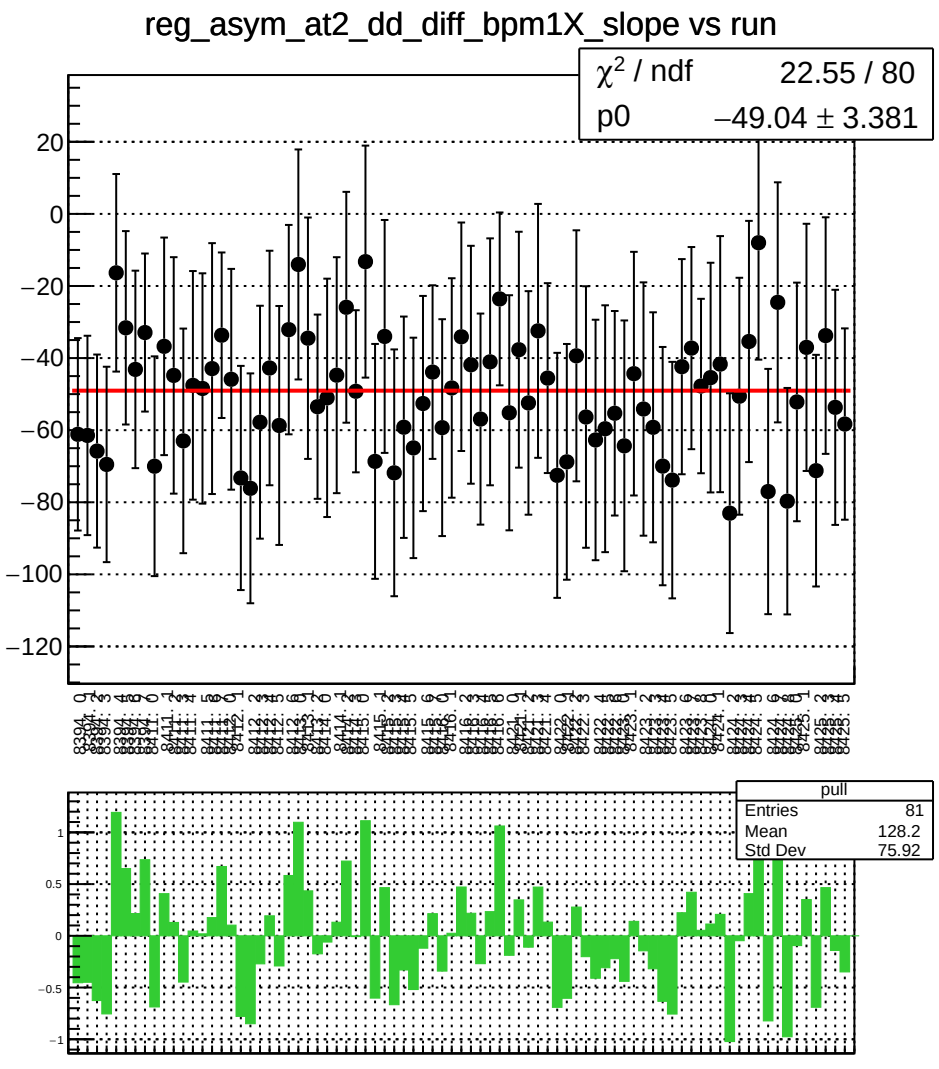

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.992 / 80
p0 478.6 ± 13.99
650
600
550
500
450
400
350
300
pull
Entries 81
Mean 1373
Std Dev 1329
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 81
Mean 0.000975
Std Dev 0.1568
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

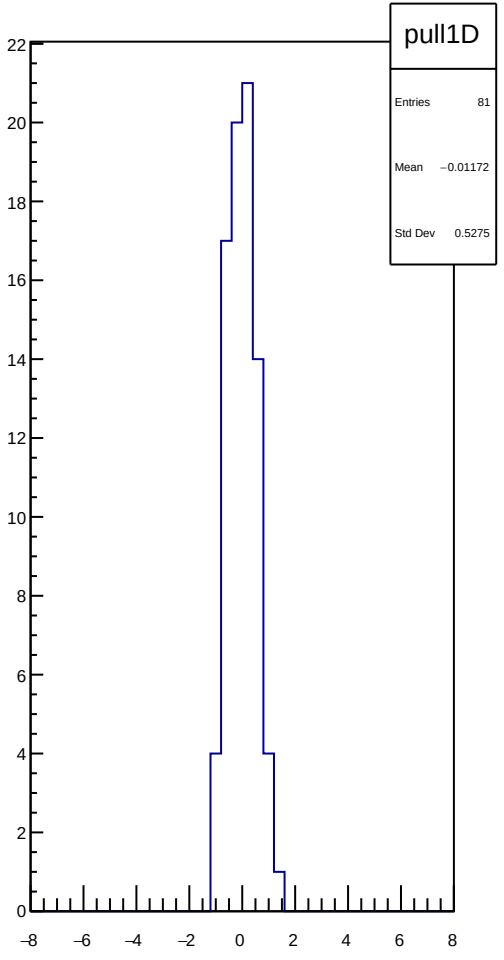

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 2.104 / 80
p0 50.63 ± 24.58
pull
Entries 81
Mean 372.8
Std Dev 350.8

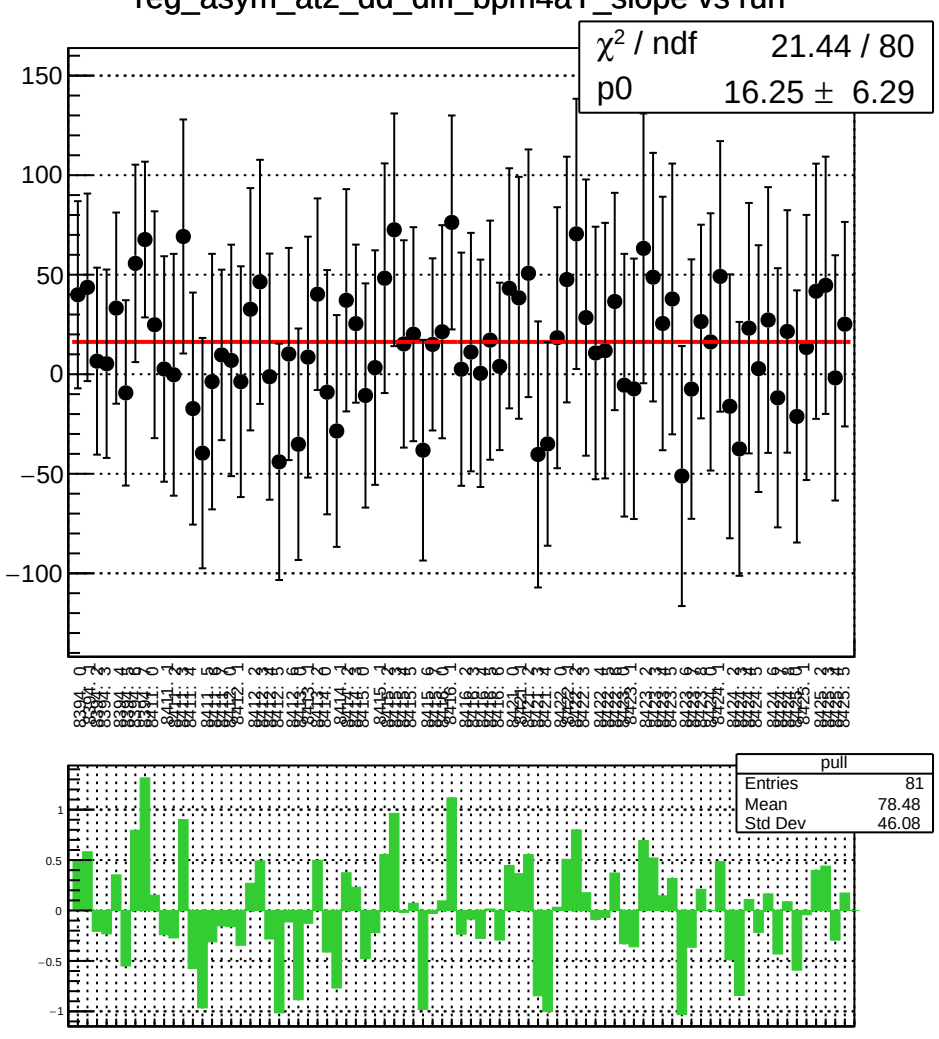

pull1D
Entries 81
Mean 0.001219
Std Dev 0.1612

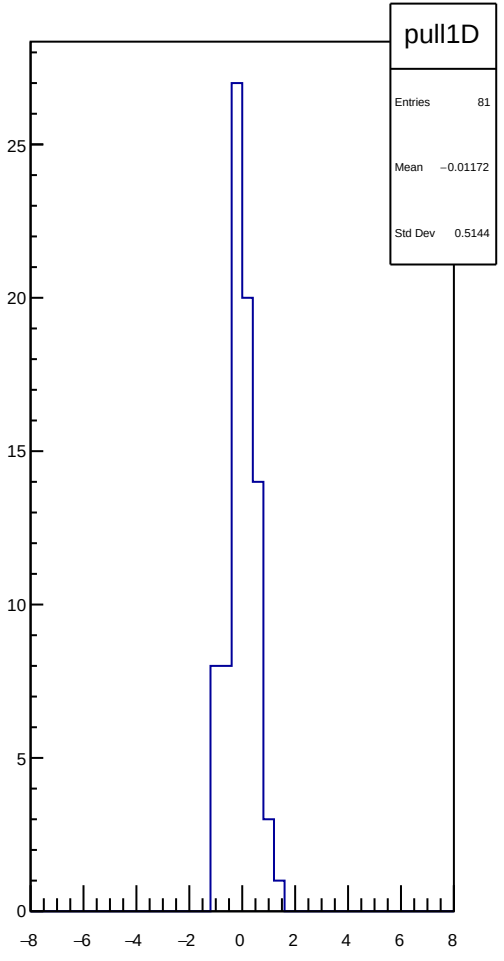

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 5.142 / 80
p0 −292.2 ± 1.478
−270
−280
−290
−300
−310
pull
Entries 81
Mean 117.1
Std Dev 86.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4

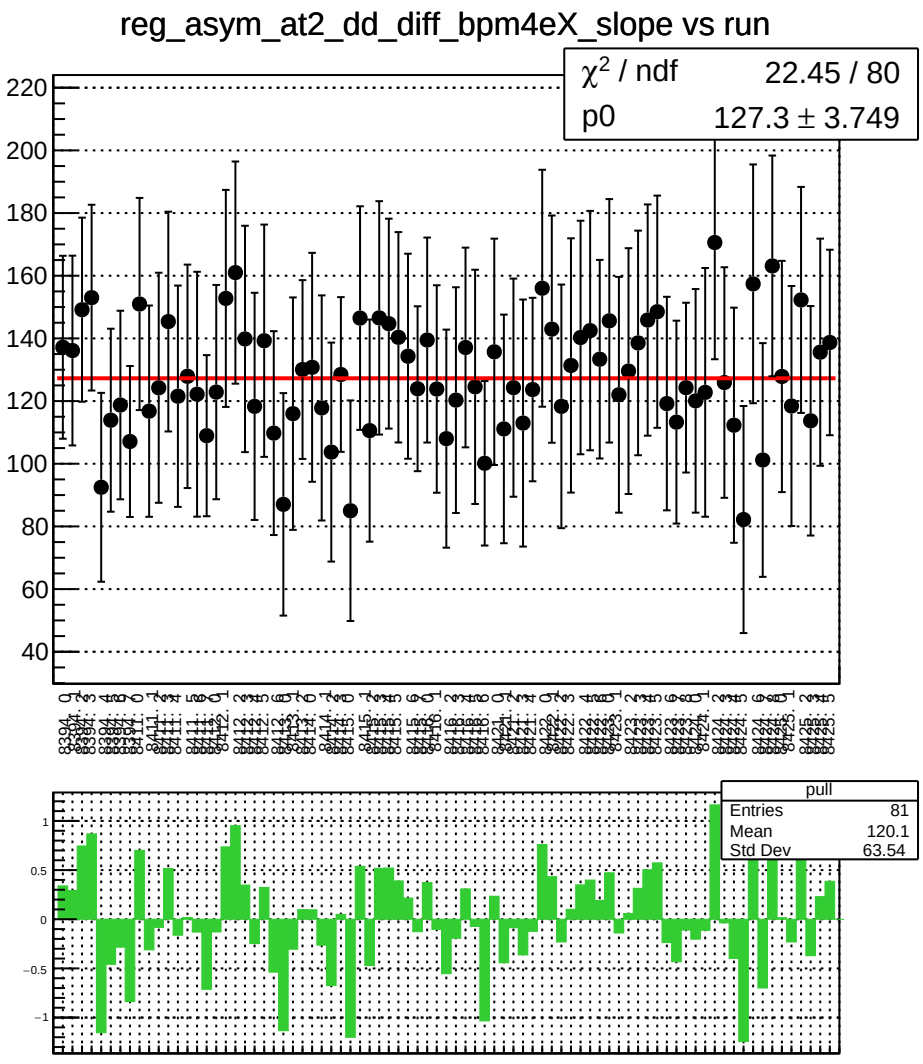

pull1D
Entries 81
Mean −0.02275
Std Dev 0.2509
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

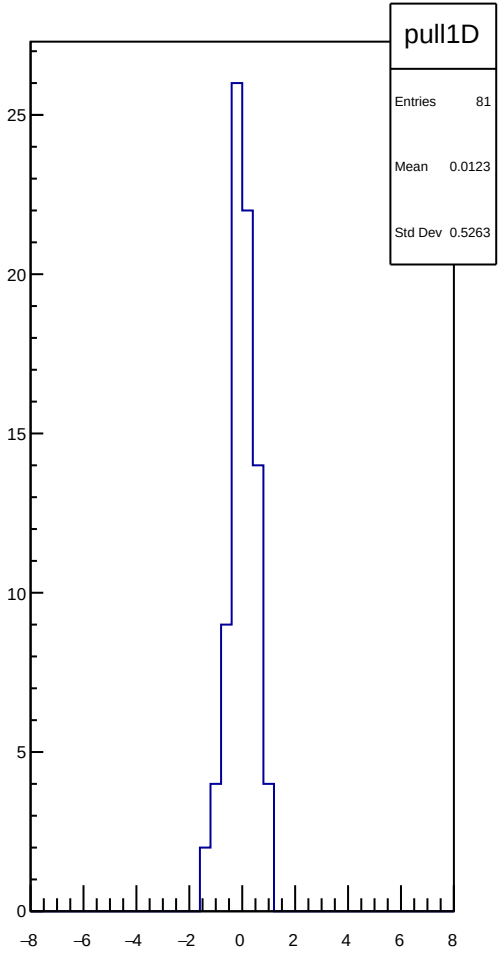

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 22.55 / 80
p0 −49.04 ± 3.381
pull
Entries 81
Mean 128.2
Std Dev 75.92

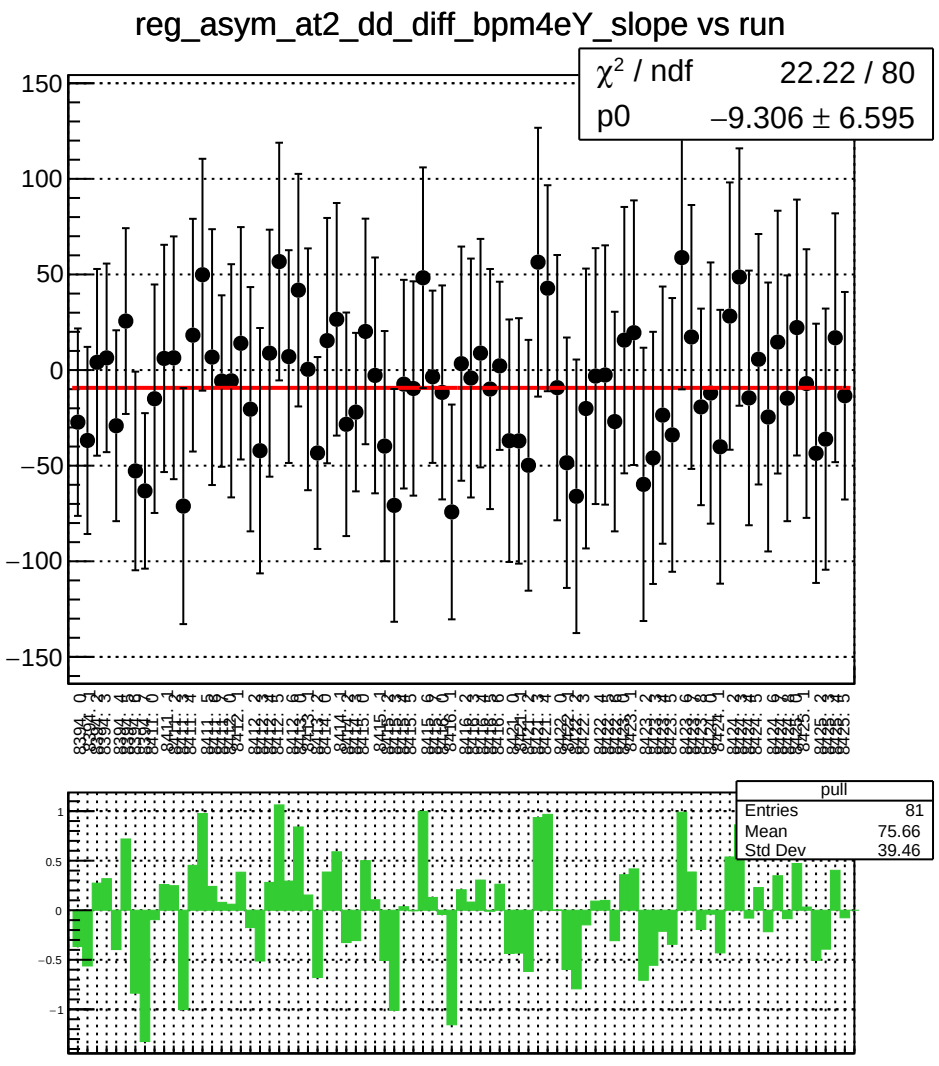

pull1D
Entries 81
Mean −0.01172
Std Dev 0.5275

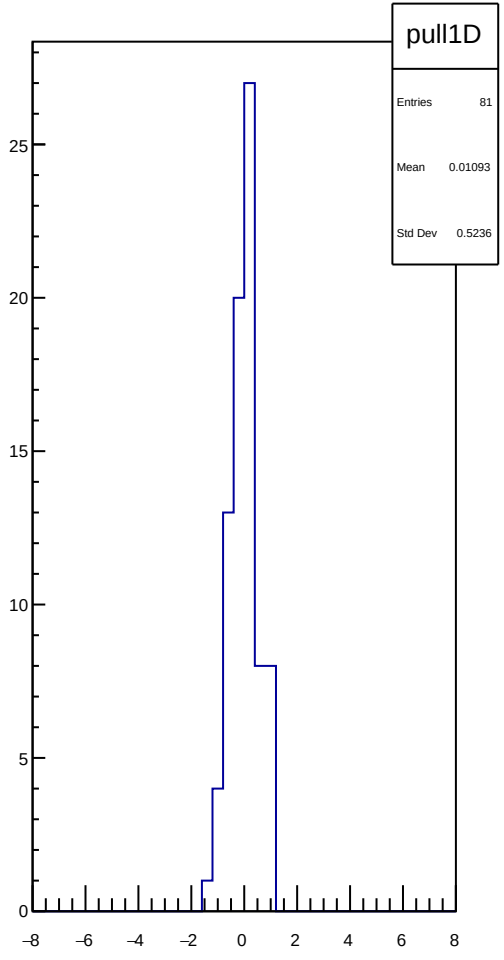

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.44 / 80
p0 16.25 ± 6.29
150
100
50
0
−50
−100
pull
Entries 81
Mean 78.48
Std Dev 46.08
1
0.5
0
−0.5
−1

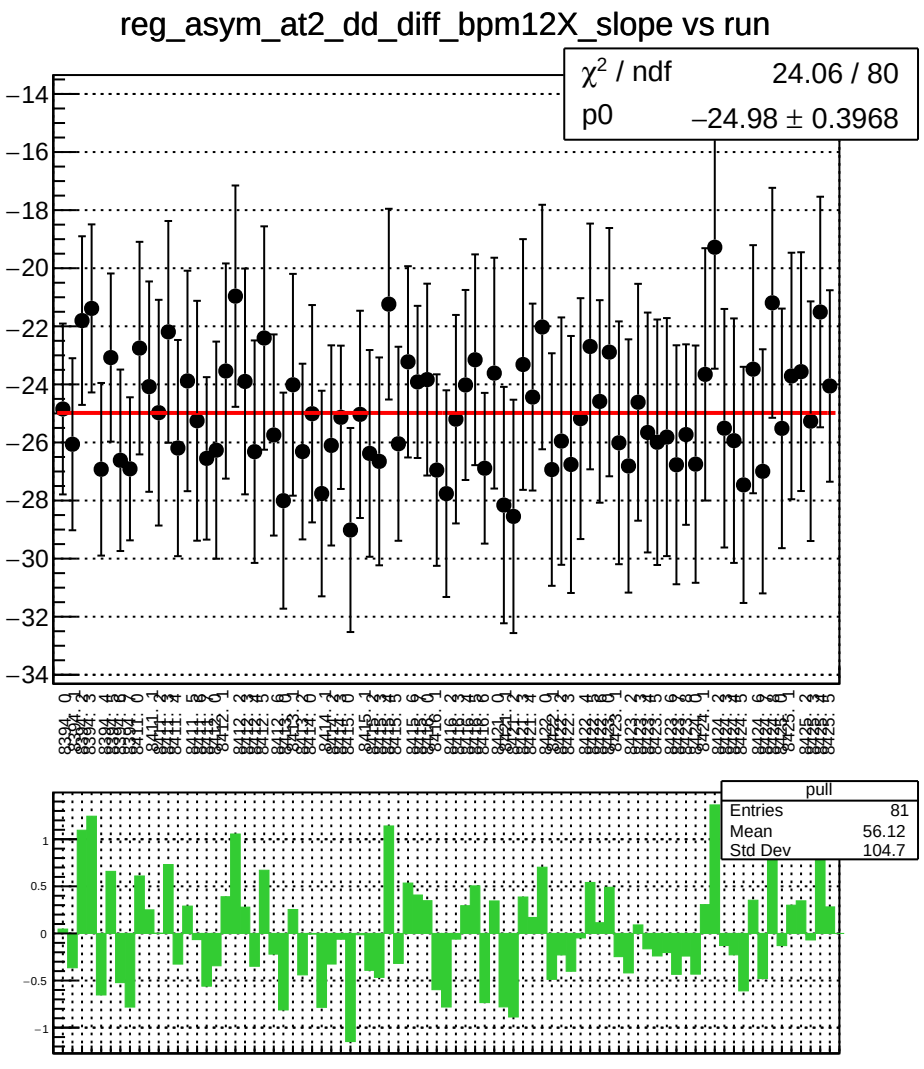

pull1D
Entries 81
Mean −0.01172
Std Dev 0.5144
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

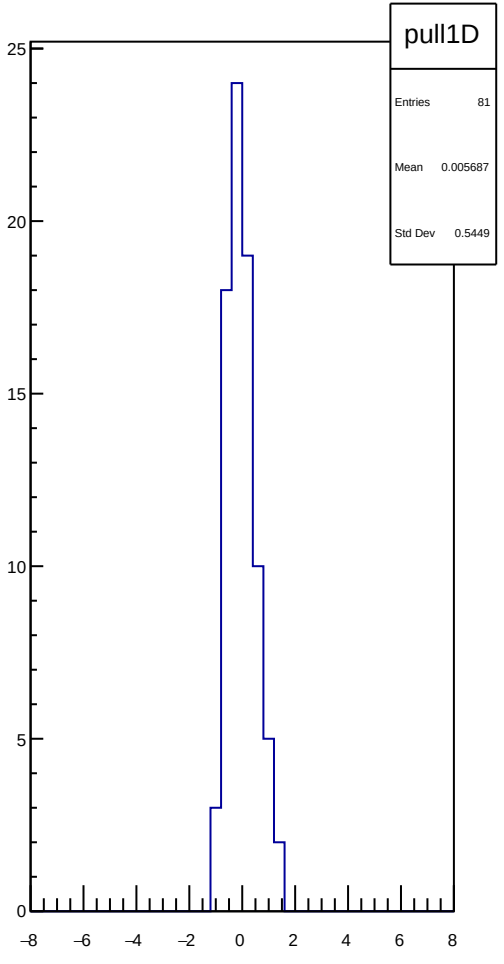

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.45 / 80
p0 127.3 ± 3.749
pull
Entries 81
Mean 120.1
Std Dev 63.54

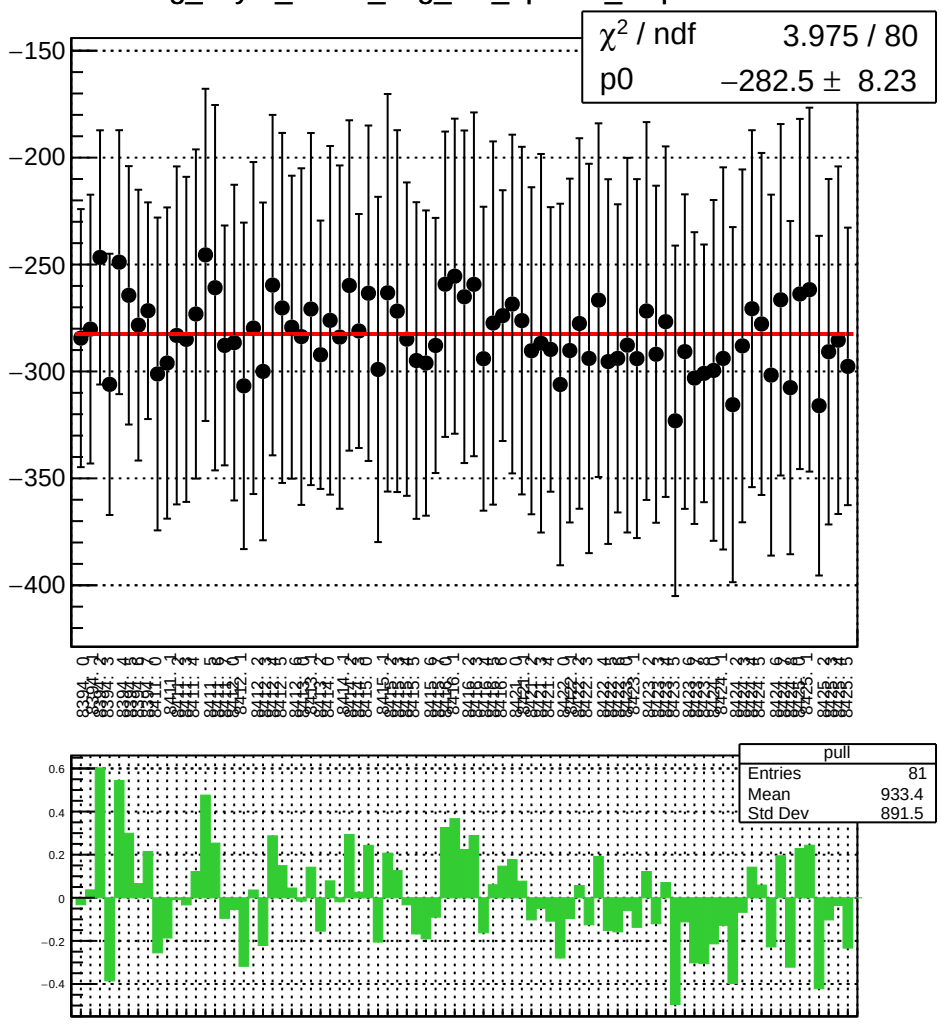

pull1D
Entries 81
Mean 0.0123
Std Dev 0.5263

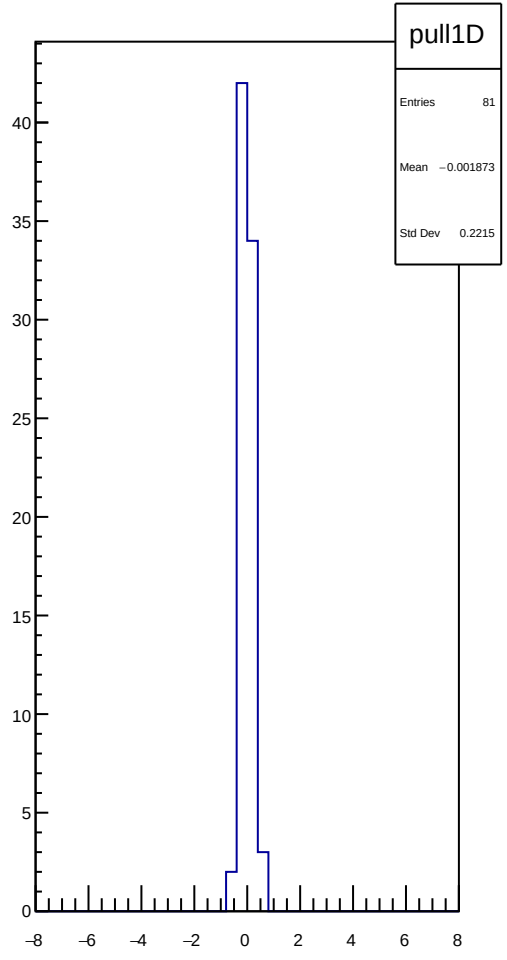

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.22 / 80
p0 −9.306 ± 6.595
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean 75.66
Std Dev 39.46
1
0.5
0
−0.5
−1

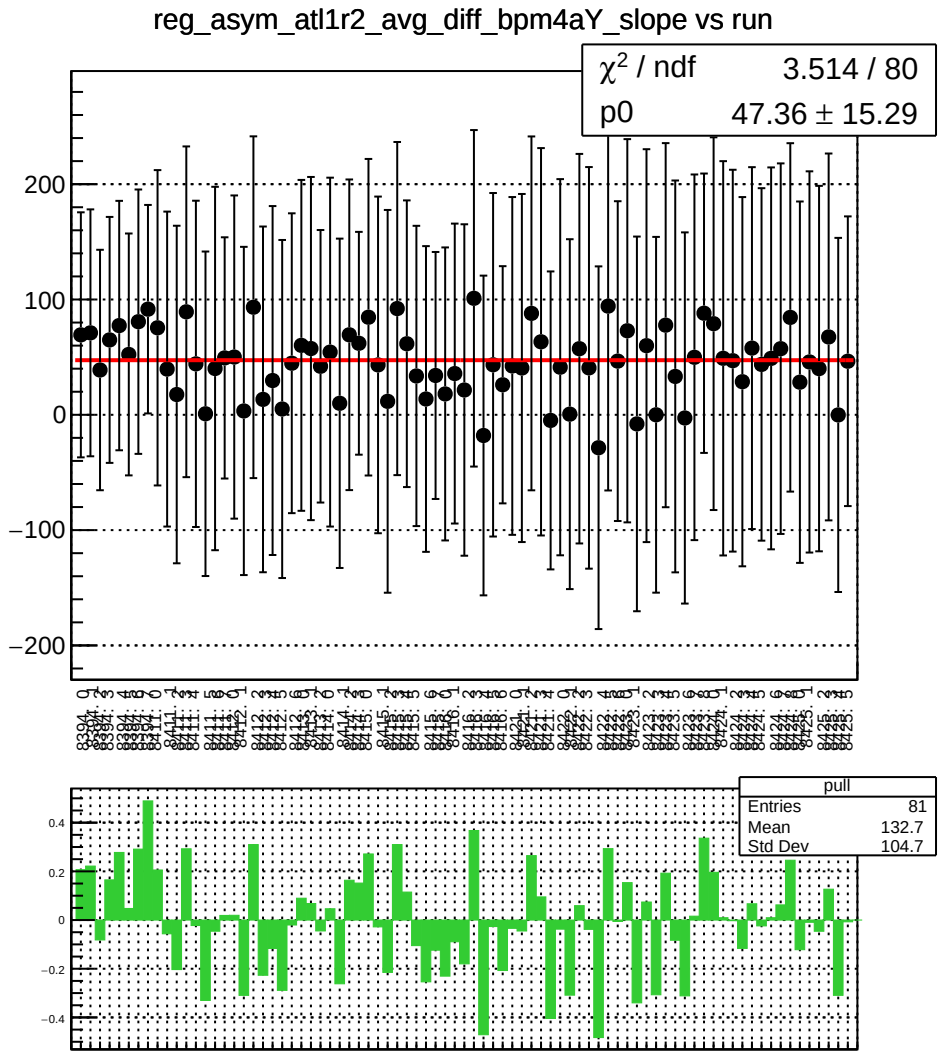

pull1D
Entries 81
Mean 0.01093
Std Dev 0.5236
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

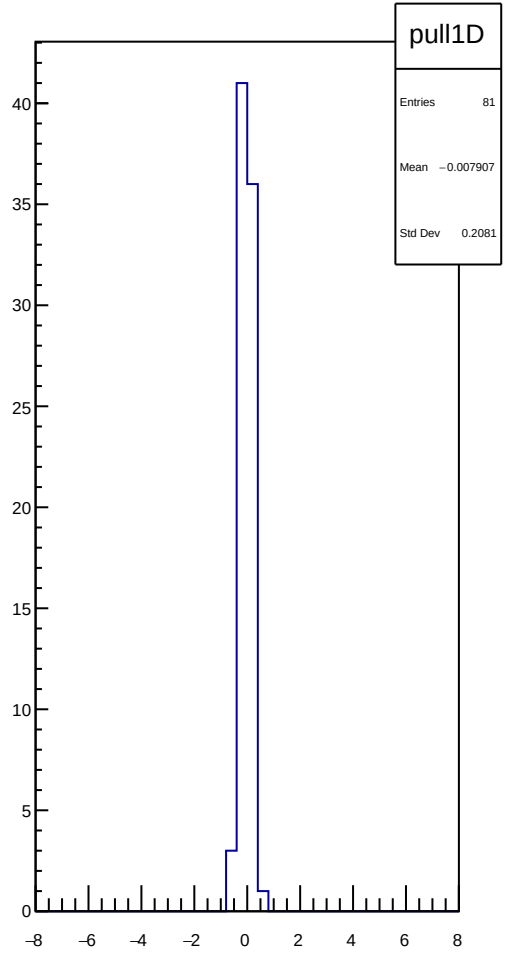

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 24.06 / 80
p0 −24.98 ± 0.3968
pull
Entries 81
Mean 56.12
Std Dev 104.7

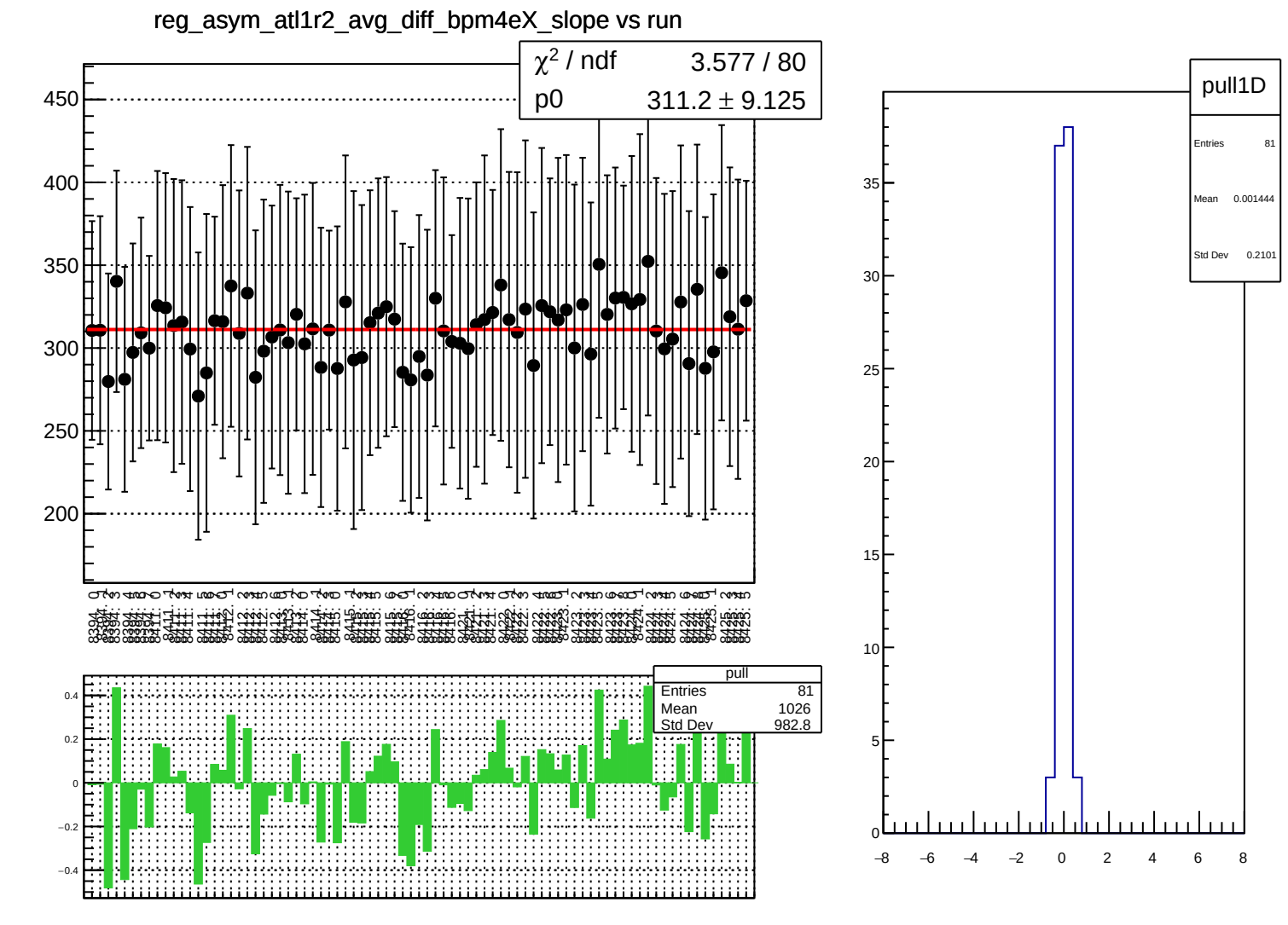

pull1D
Entries 81
Mean 0.005687
Std Dev 0.5449

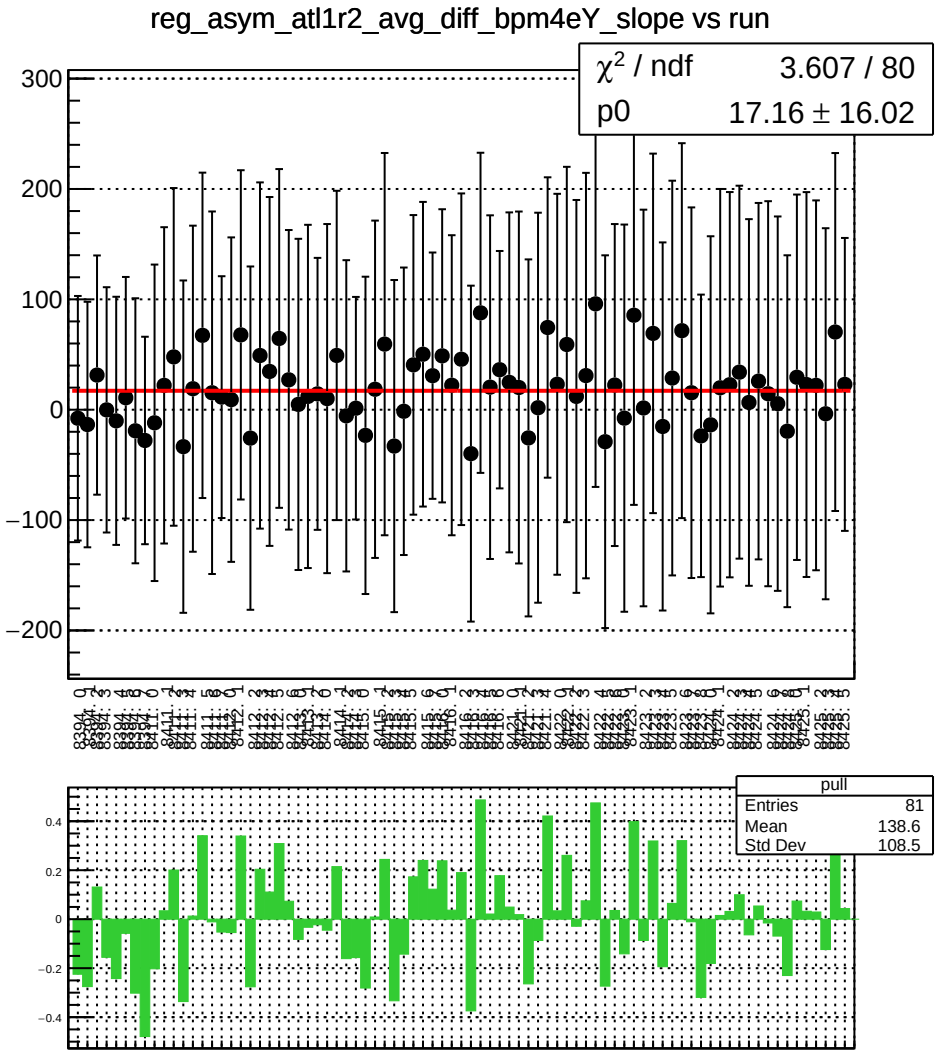

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.975 / 80
p0 −282.5 ± 8.23
pull
Entries 81
Mean 933.4
Std Dev 891.5

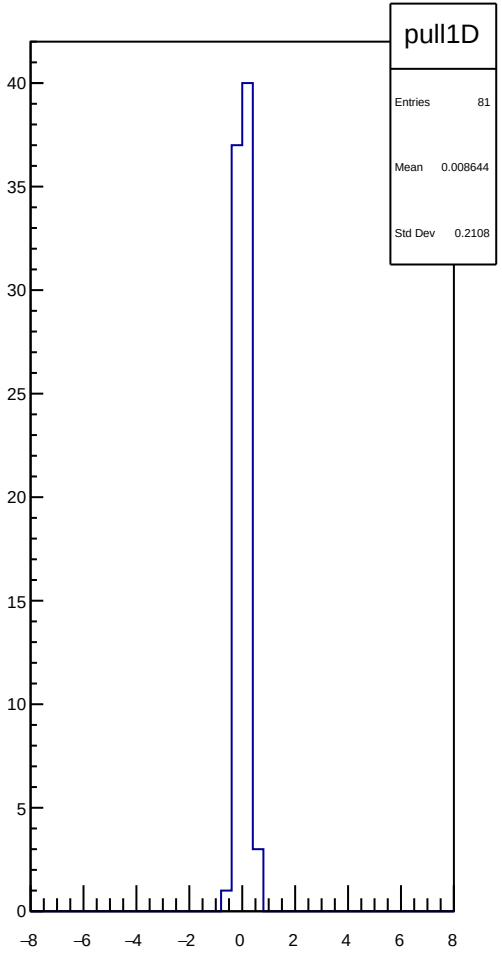

pull1D
Entries 81
Mean −0.001873
Std Dev 0.2215

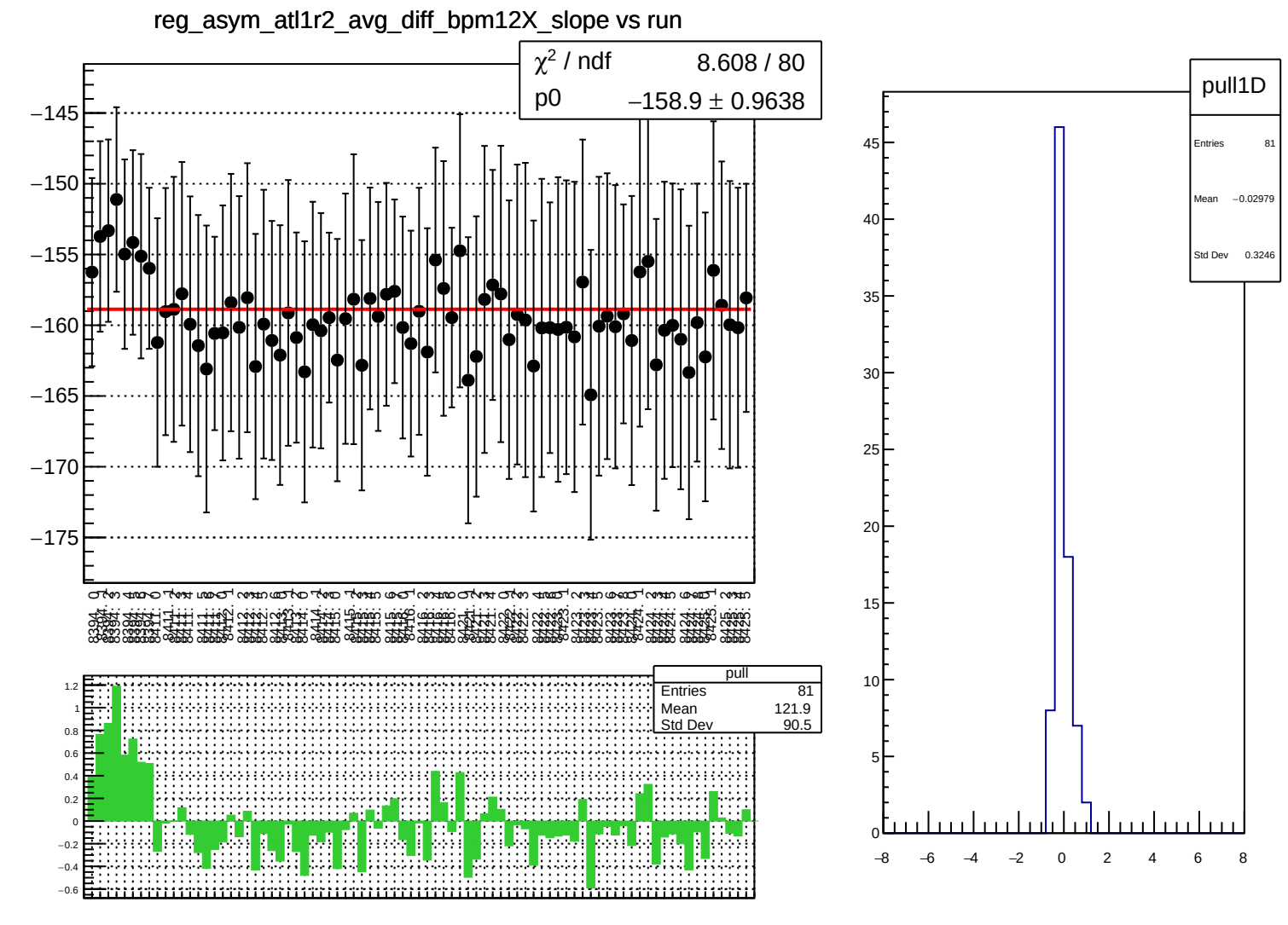

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.514 / 80
p0 47.36 ± 15.29
200
100
0
−100
−200
pull
Entries 81
Mean 132.7
Std Dev 104.7
0.4
0.2
0
−0.2
−0.4

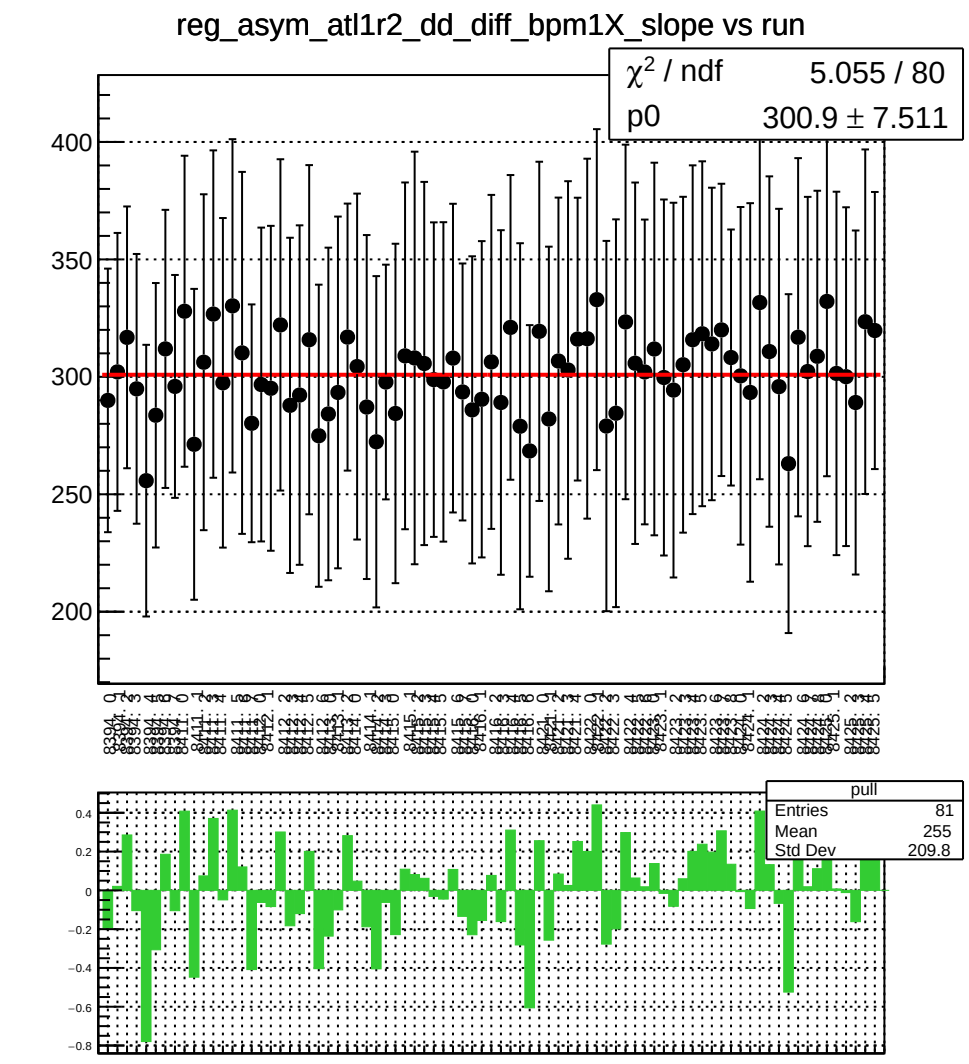

pull1D
Entries 81
Mean −0.007907
Std Dev 0.2081
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

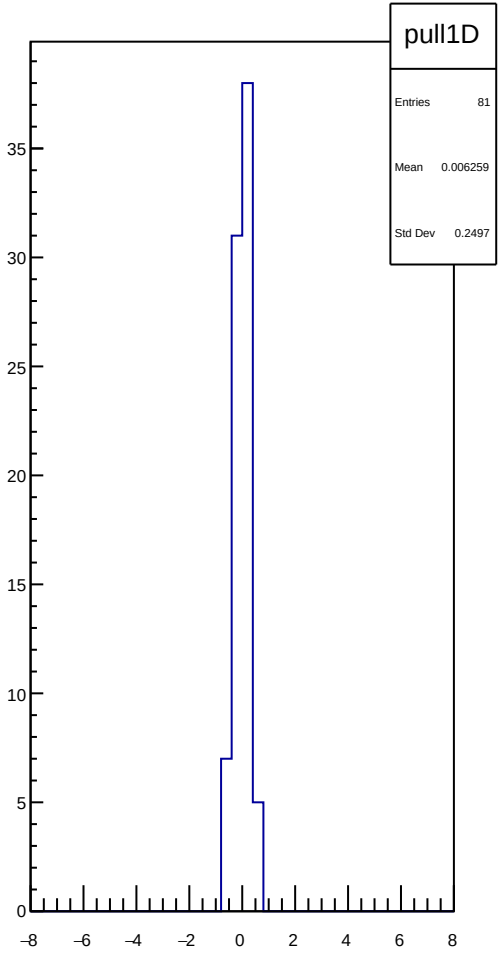

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.577 / 80
p0 311.2 ± 9.125
pull
Entries 81
Mean 1026
Std Dev 982.8
pull1D
Entries 81
Mean 0.001444
Std Dev 0.2101

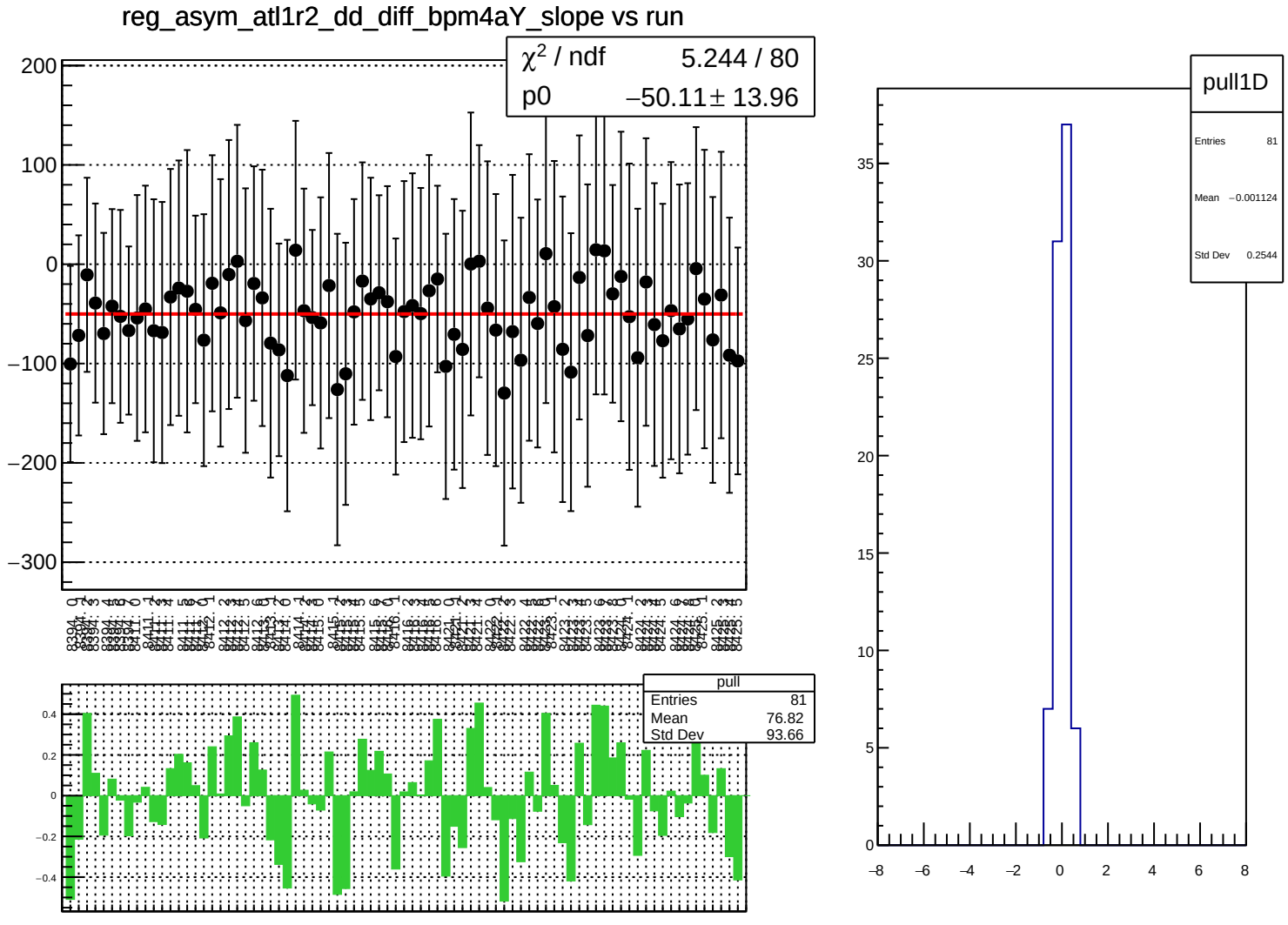

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.607 / 80
p0 17.16 ± 16.02
pull
Entries 81
Mean 138.6
Std Dev 108.5

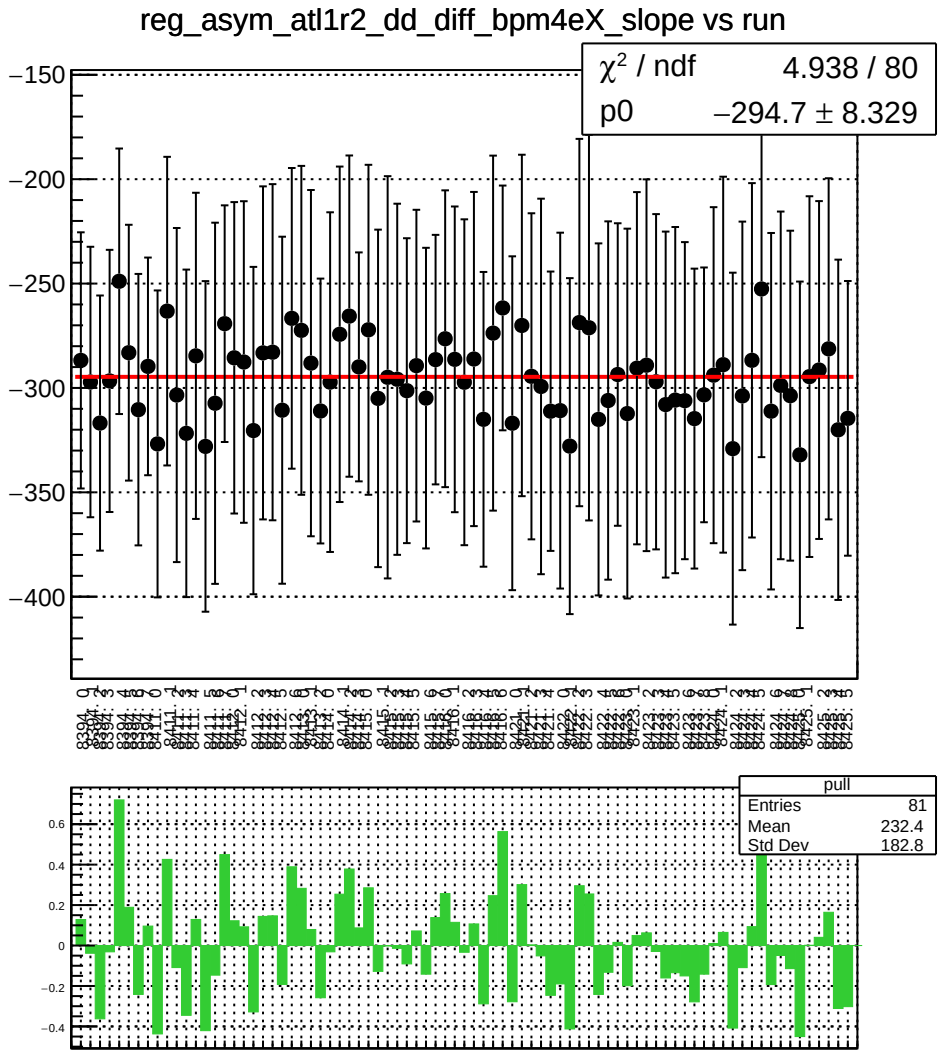

pull1D
Entries 81
Mean 0.008644
Std Dev 0.2108

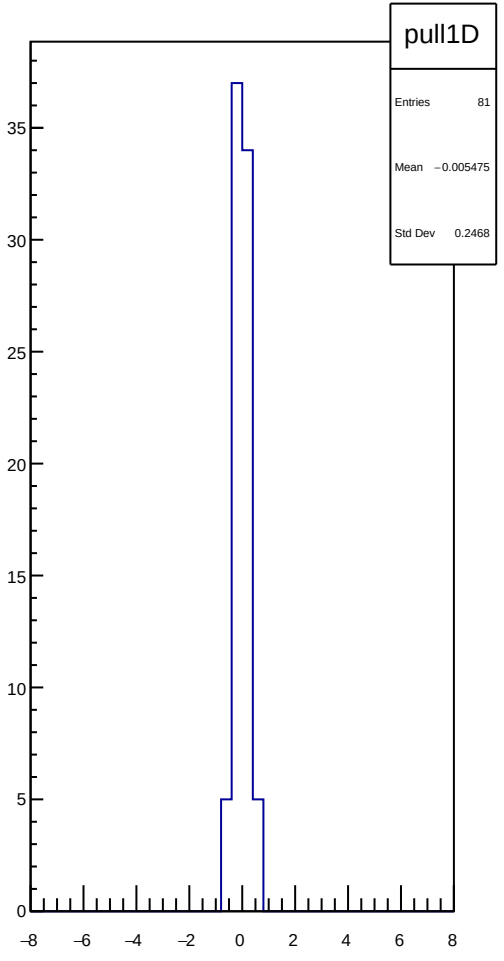

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 8.608 / 80
p0 −158.9 ± 0.9638
−145
−150
−155
−160
−165
−170
−175
pull
Entries 81
Mean 121.9
Std Dev 90.5
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 81
Mean −0.02979
Std Dev 0.3246
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

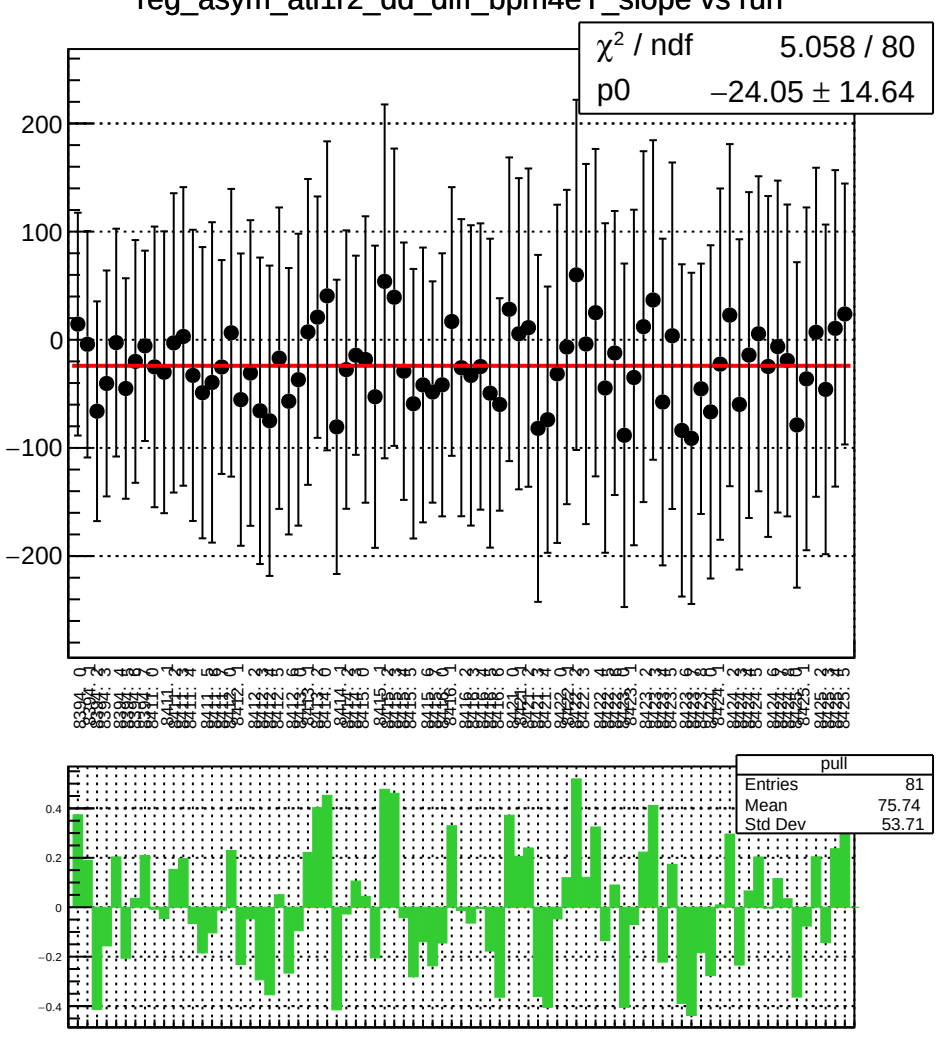

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.055 / 80
p0 300.9 ± 7.511
400
350
300
250
200
pull
Entries 81
Mean 255
Std Dev 209.8
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

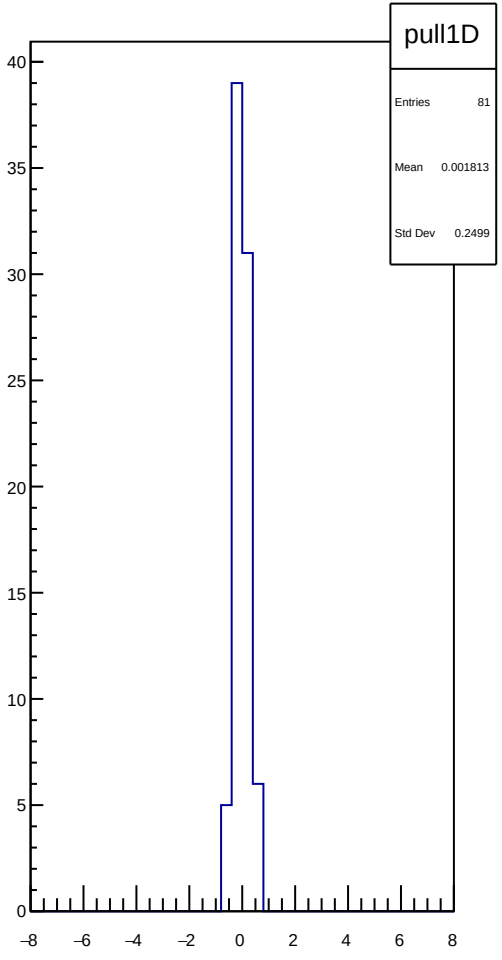

pull1D
Entries 81
Mean 0.006259
Std Dev 0.2497
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

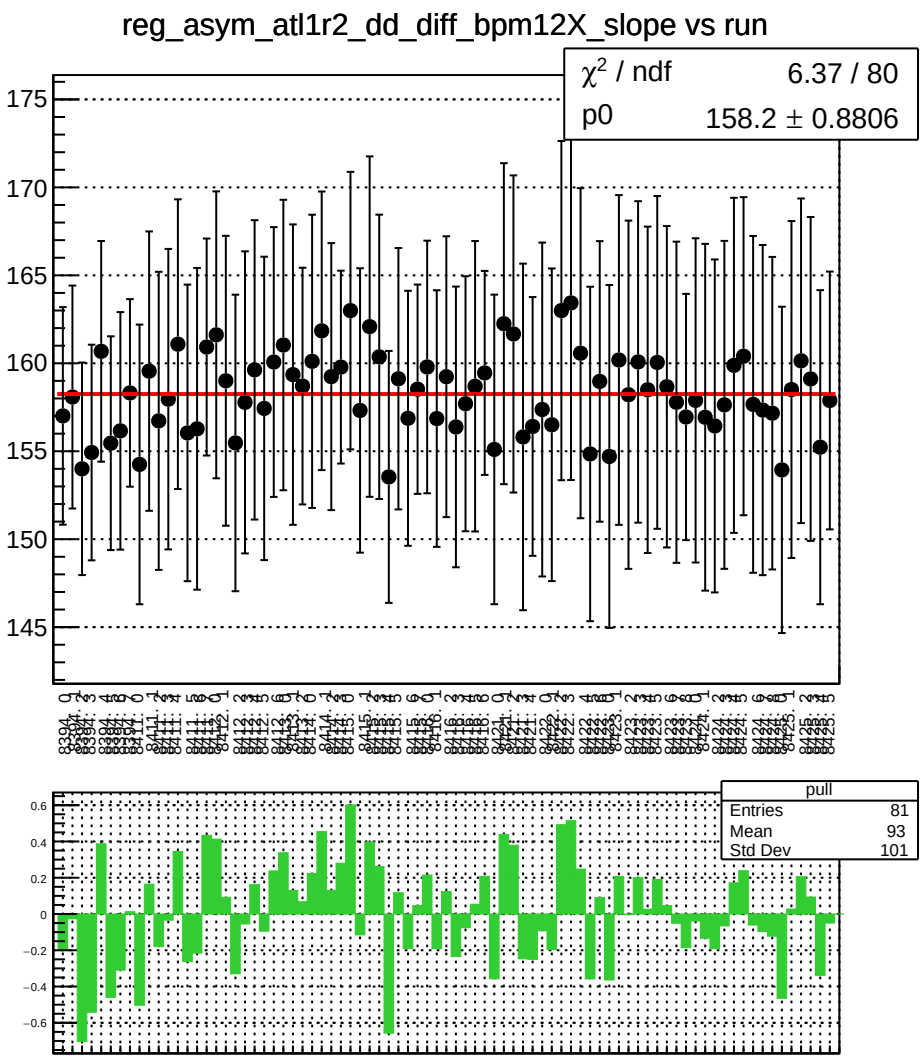

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.244 / 80
p0 −50.11± 13.96
pull
Entries 81
Mean 76.82
Std Dev 93.66
pull1D
Entries 81
Mean −0.001124
Std Dev 0.2544

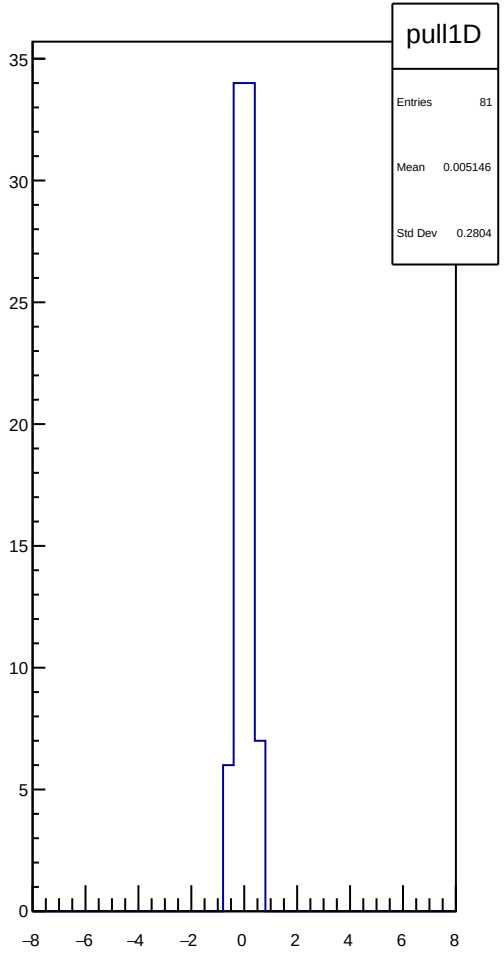

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.938 / 80
p0 −294.7 ± 8.329
pull
Entries 81
Mean 232.4
Std Dev 182.8

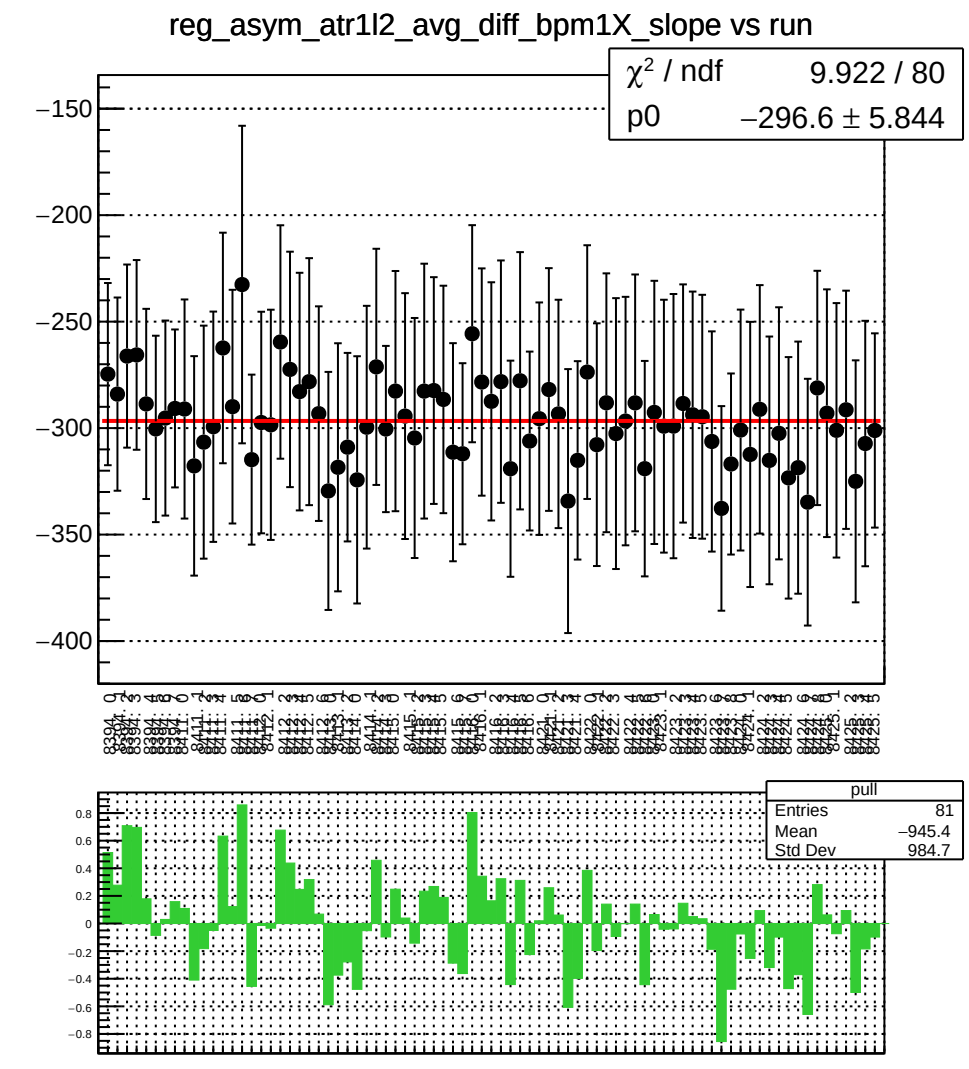

pull1D
Entries 81
Mean −0.005475
Std Dev 0.2468

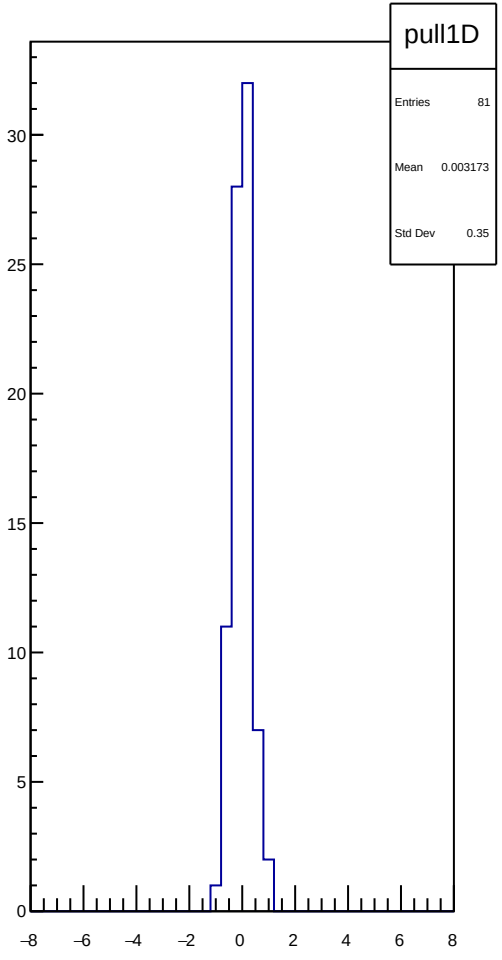

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.058 / 80
p0 −24.05 ± 14.64
200
100
0
−100
−200
pull
Entries 81
Mean 75.74
Std Dev 53.71
0.4
0.2
0
−0.2
−0.4

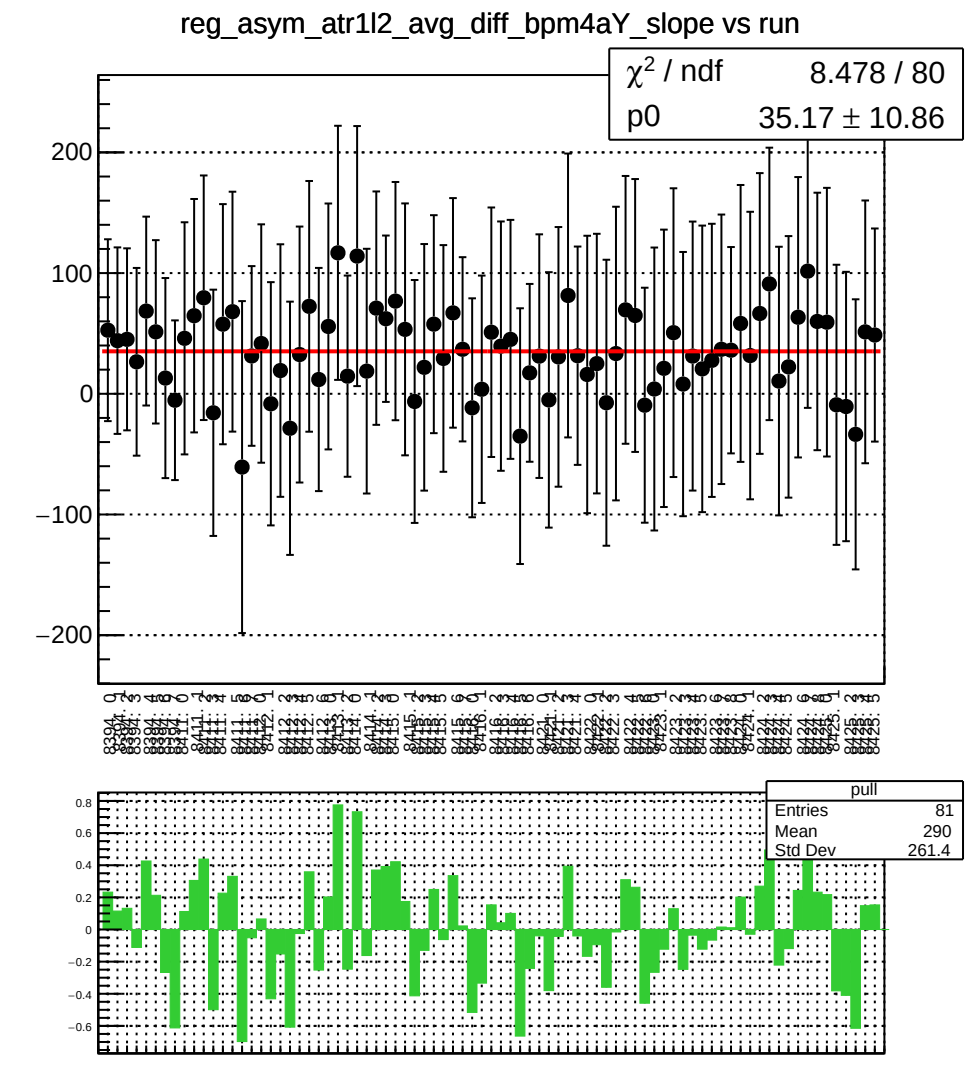

pull1D
Entries 81
Mean 0.001813
Std Dev 0.2499
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

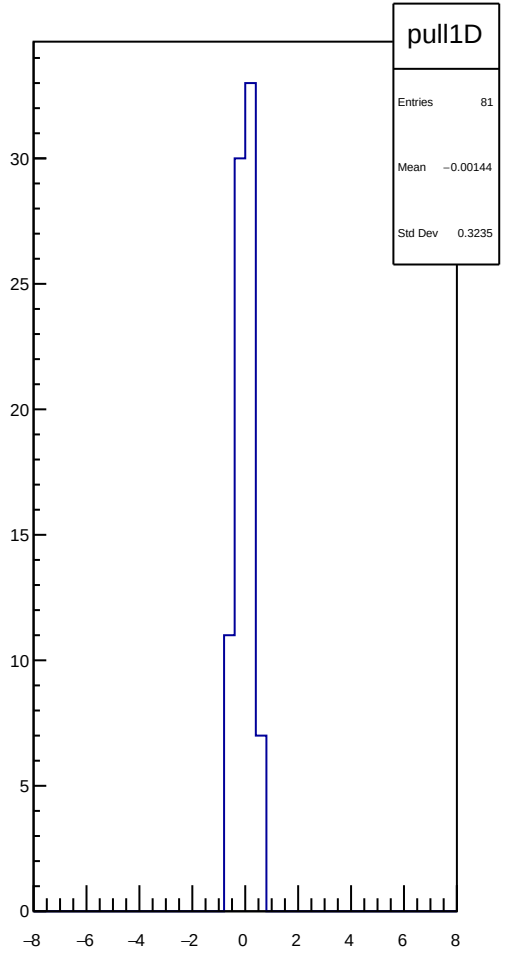

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 6.37 / 80
p0 158.2 ± 0.8806
175
170
165
160
155
150
145
pull
Entries 81
Mean 93
Std Dev 101
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

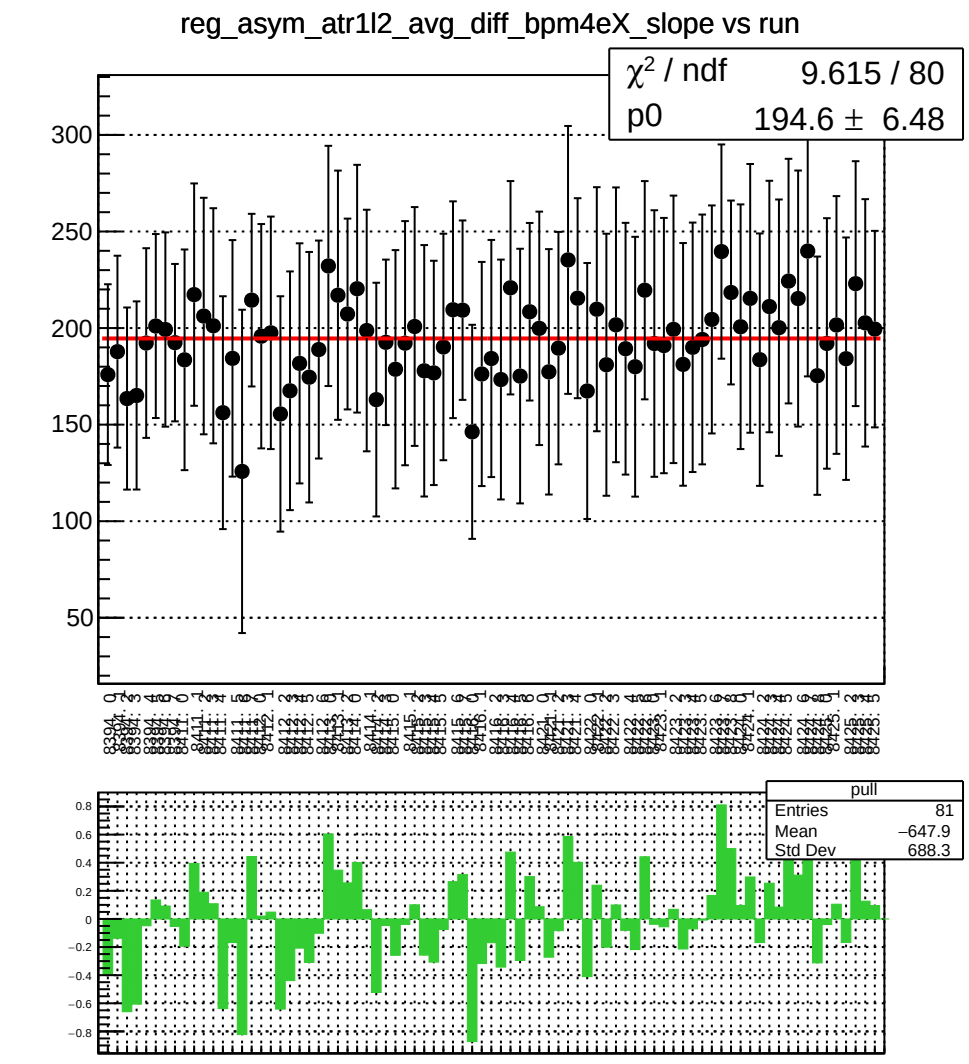

pull1D
Entries 81
Mean 0.005146
Std Dev 0.2804
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

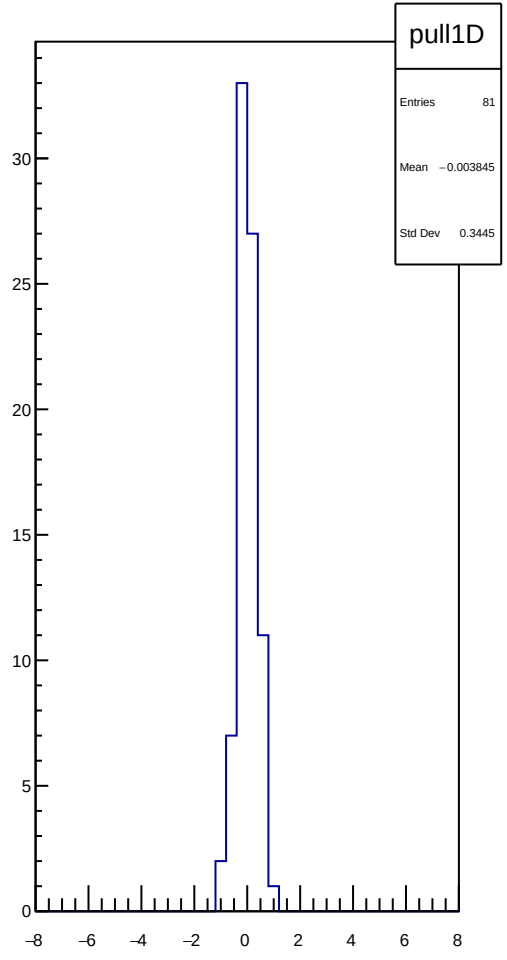

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.922 / 80
p0 −296.6 ± 5.844
−150
−200
−250
−300
−350
−400
pull
Entries 81
Mean −945.4
Std Dev 984.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8


pull1D
Entries 81
Mean 0.003173
Std Dev 0.35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.478 / 80
p0 35.17 ± 10.86
200
100
0
−100
−200
pull
Entries 81
Mean 290
Std Dev 261.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6


pull1D
Entries 81
Mean −0.00144
Std Dev 0.3235
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.615 / 80
p0 194.6 ± 6.48
300
250
200
150
100
50
pull
Entries 81
Mean −647.9
Std Dev 688.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8


pull1D
Entries 81
Mean −0.003845
Std Dev 0.3445
30
25
20
15
10
5
0
−8
−6
−4
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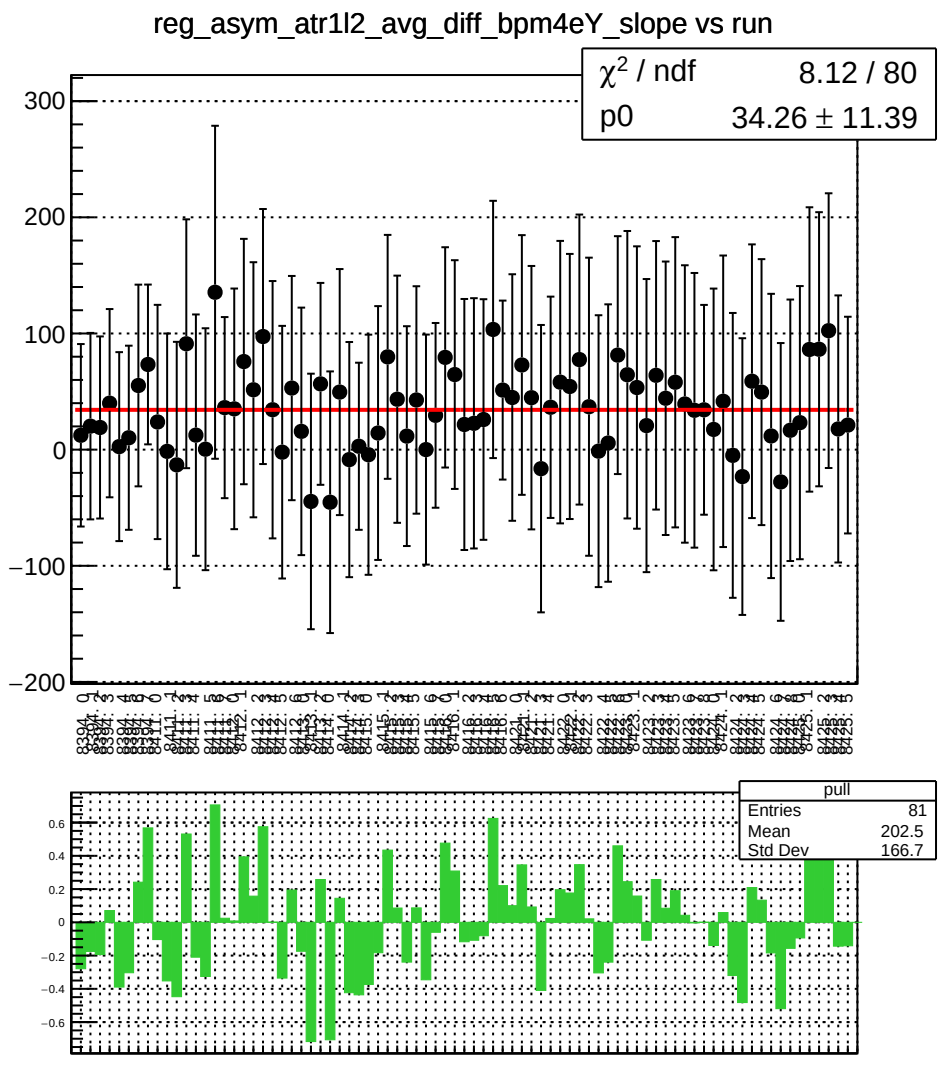
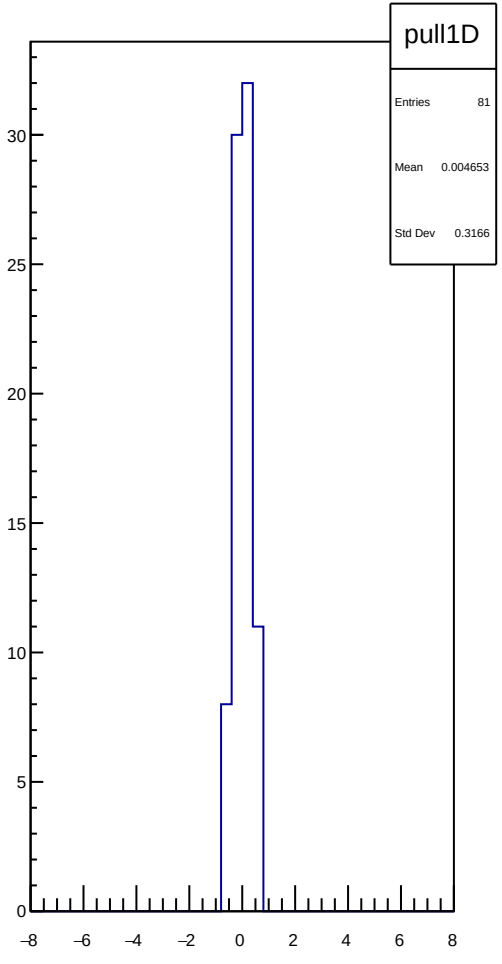
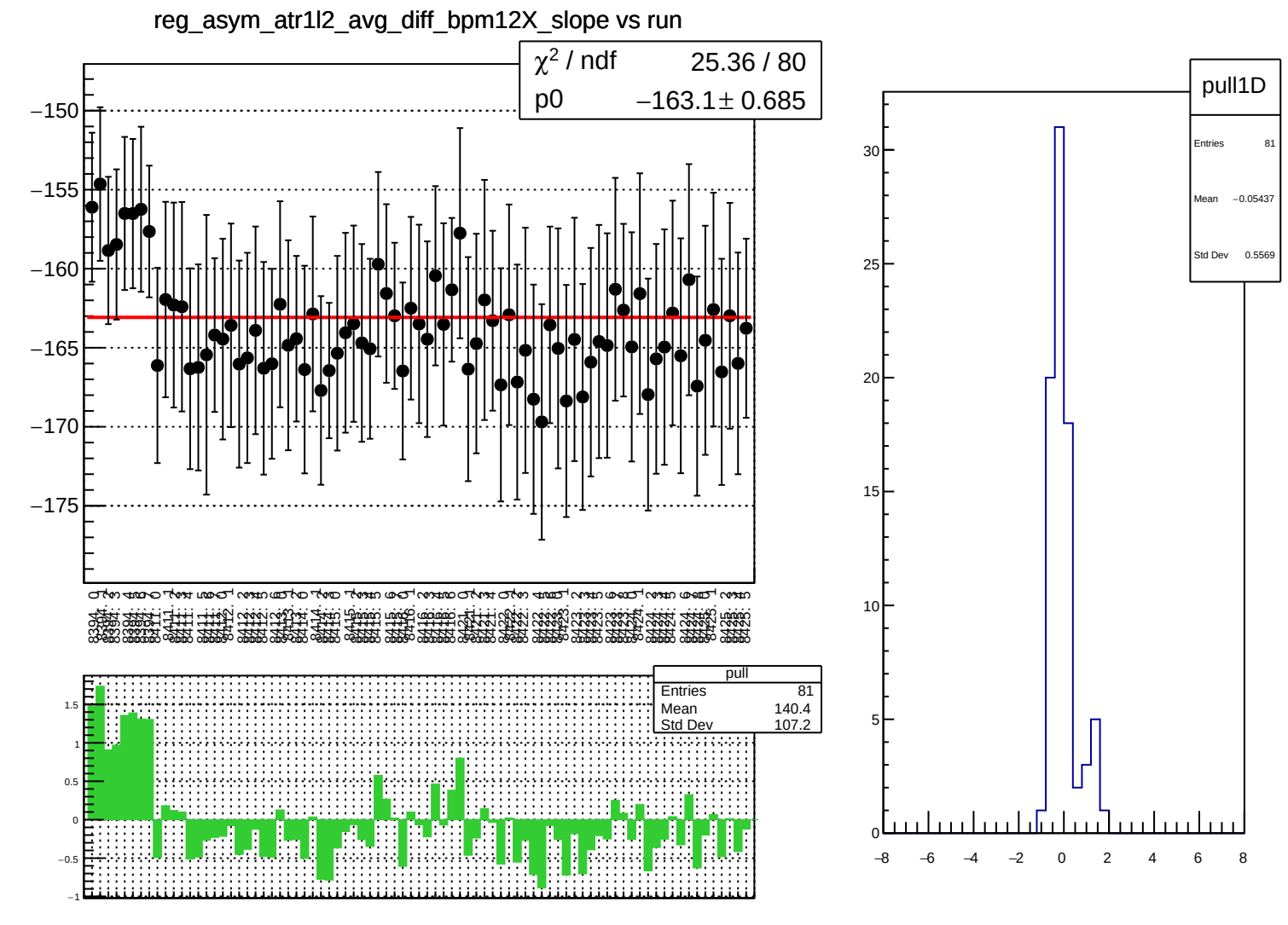
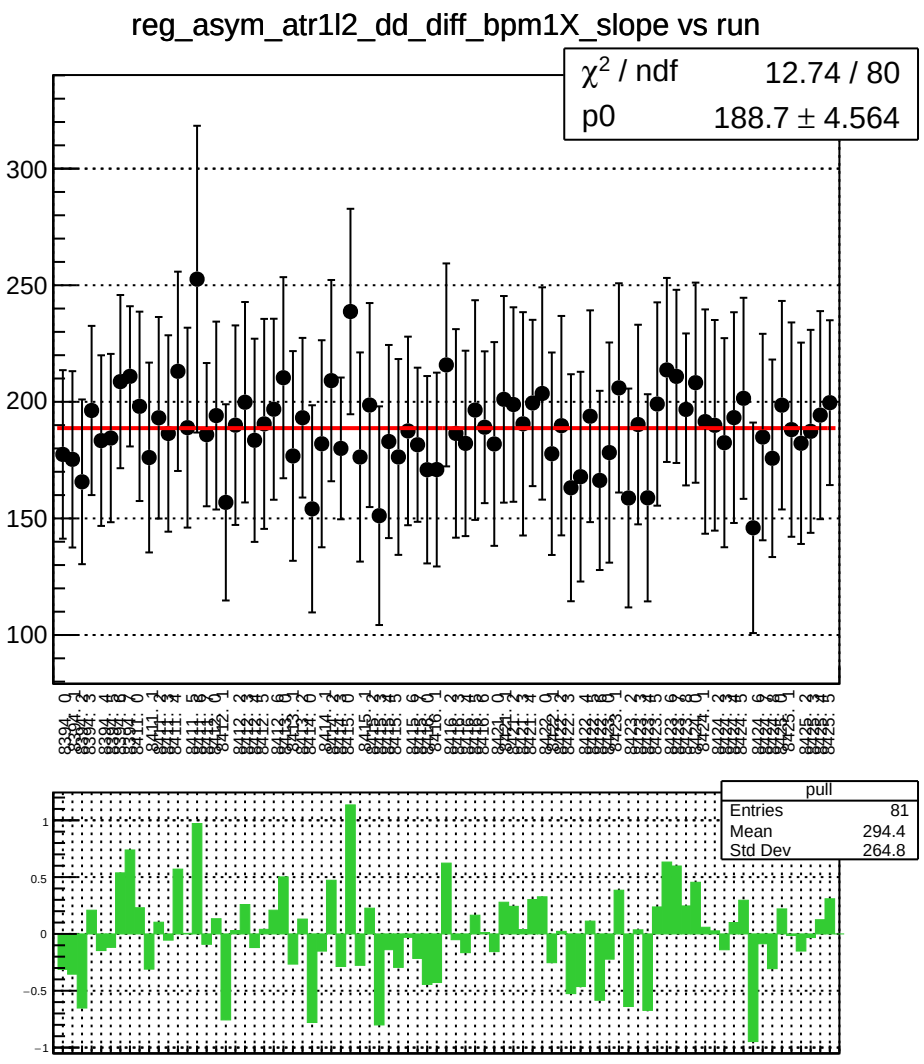
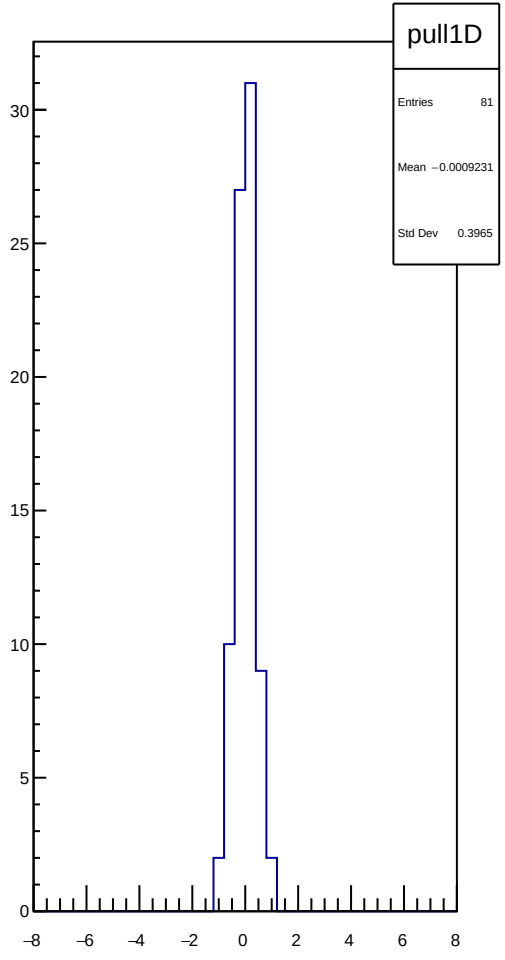
2
4
6
8

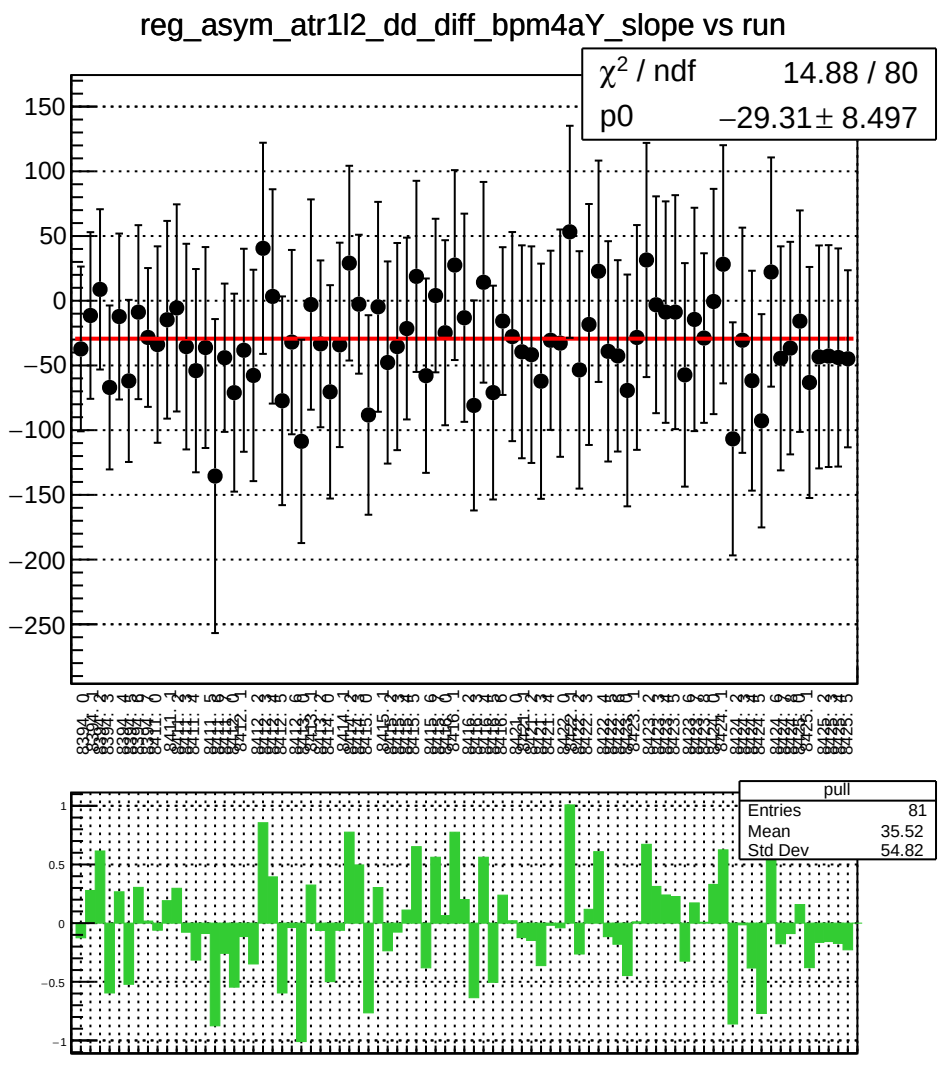

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.12 / 80
p0 34.26 ± 11.39
pull
Entries 81
Mean 202.5
Std Dev 166.7

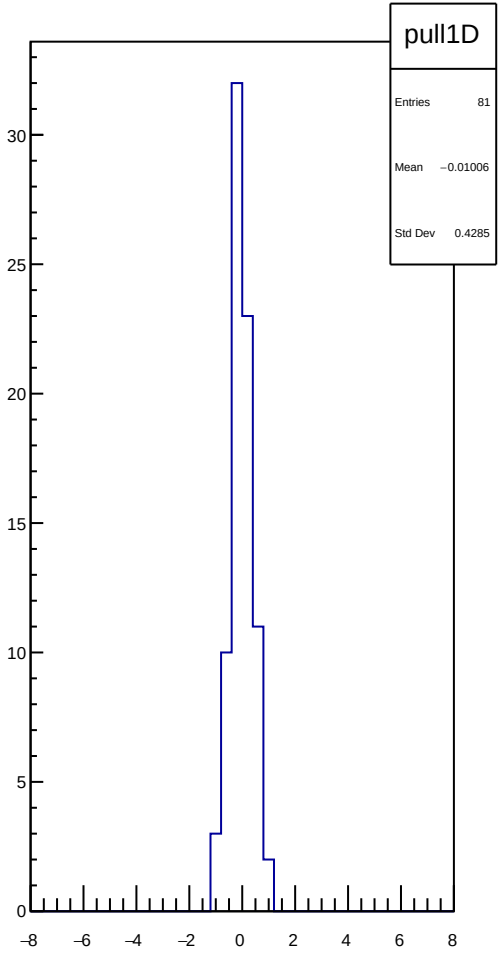

pull1D
Entries 81
Mean 0.004653
Std Dev 0.3166

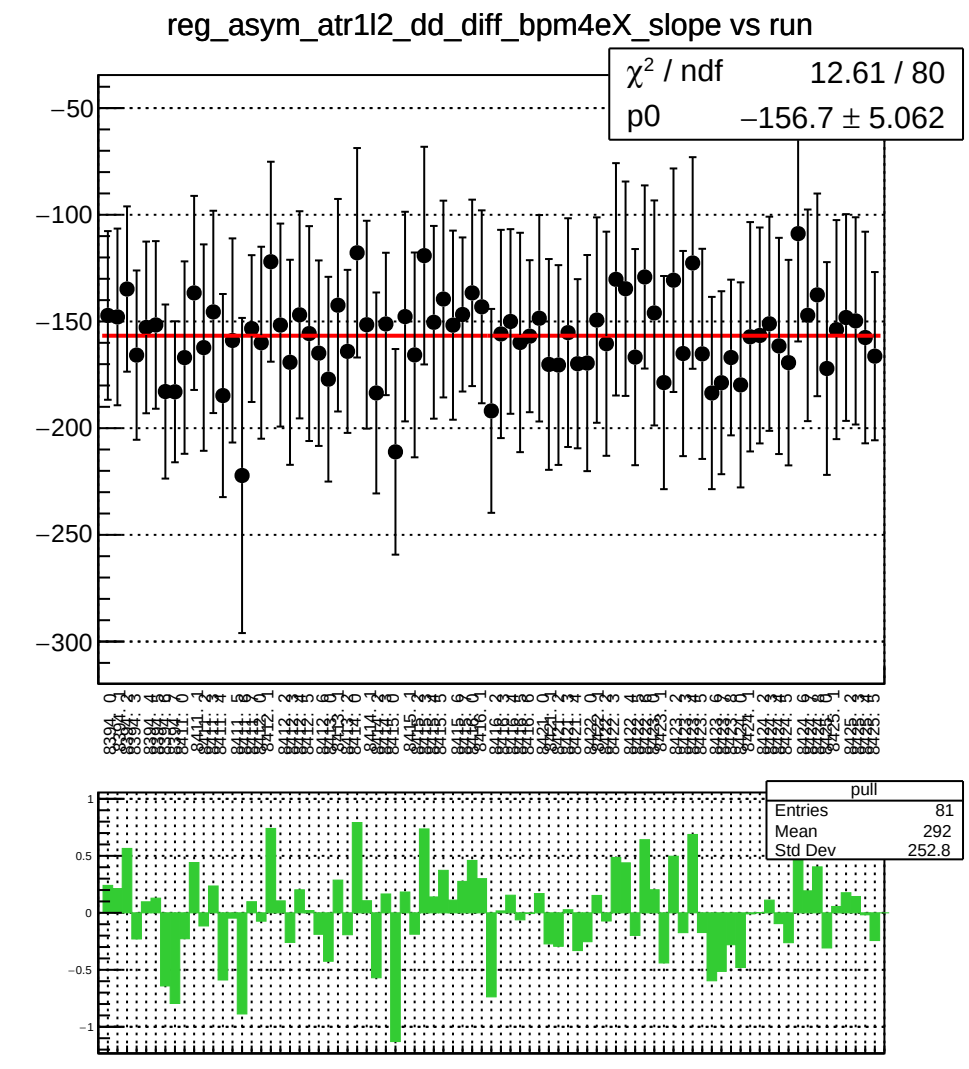

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 25.36 / 80
p0 −163.1 ± 0.685
−150
−155
−160
−165
−170
−175
pull
Entries 81
Mean 140.4
Std Dev 107.2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean −0.05437
Std Dev 0.5569
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

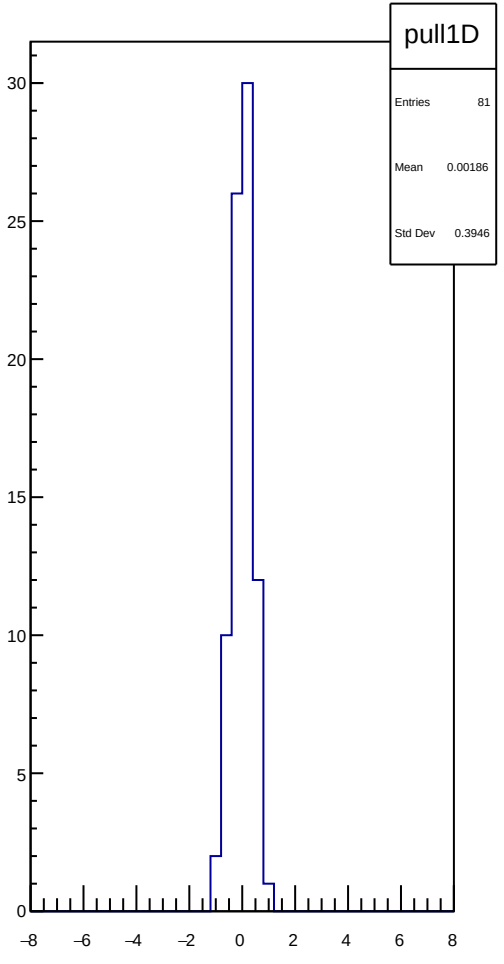

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 12.74 / 80
p0 188.7 ± 4.564
300
250
200
150
100
pull
Entries 81
Mean 294.4
Std Dev 264.8
1
0.5
0
−0.5
−1

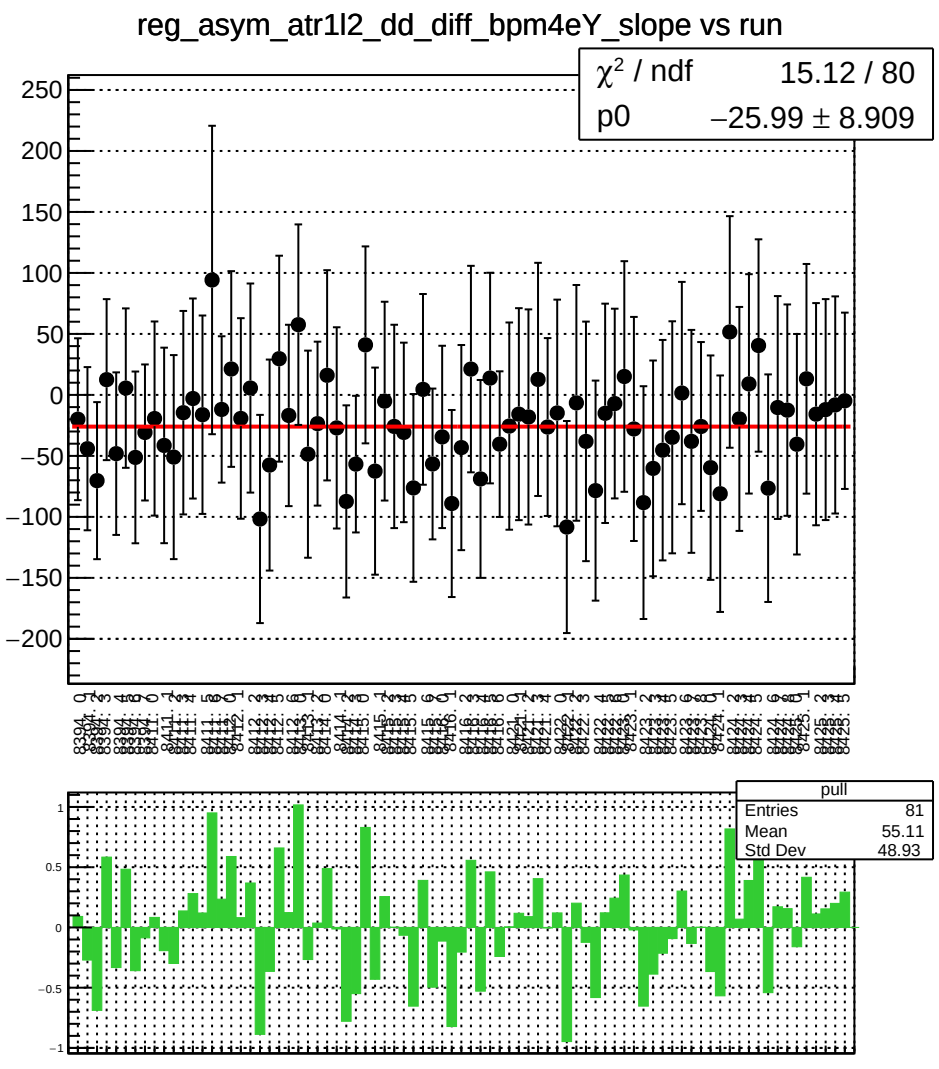

pull1D
Entries 81
Mean −0.0009231
Std Dev 0.3965
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

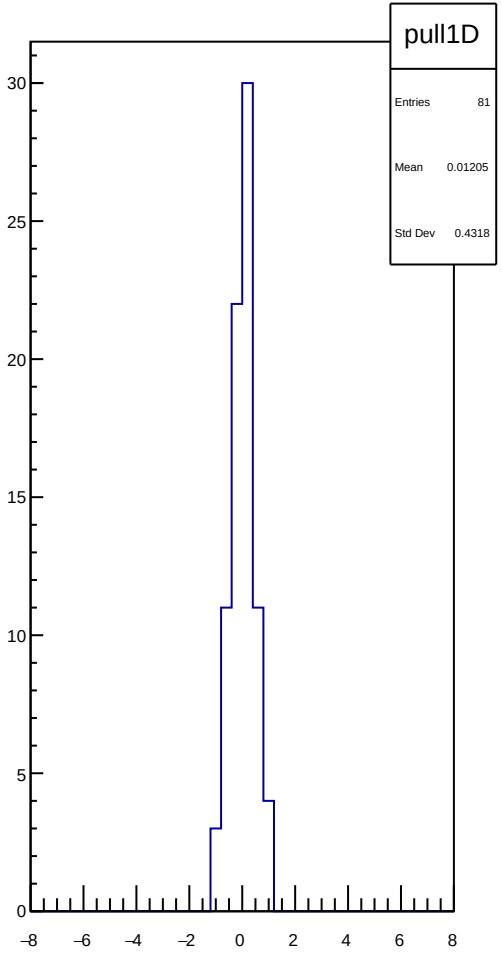

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.88 / 80
p0 −29.31 ± 8.497
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 81
Mean 35.52
Std Dev 54.82
1
0.5
0
−0.5
−1

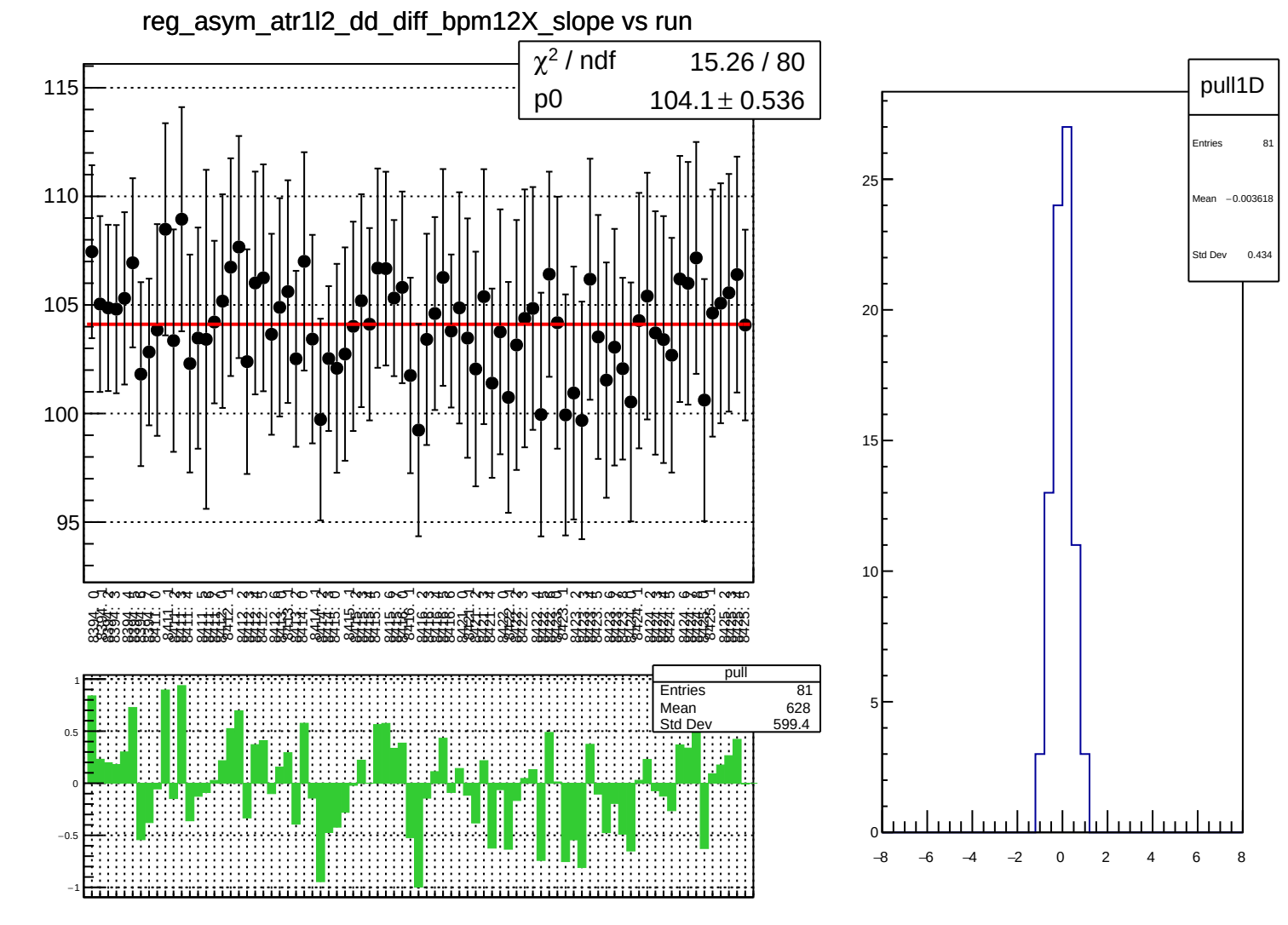

pull1D
Entries 81
Mean −0.01006
Std Dev 0.4285
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

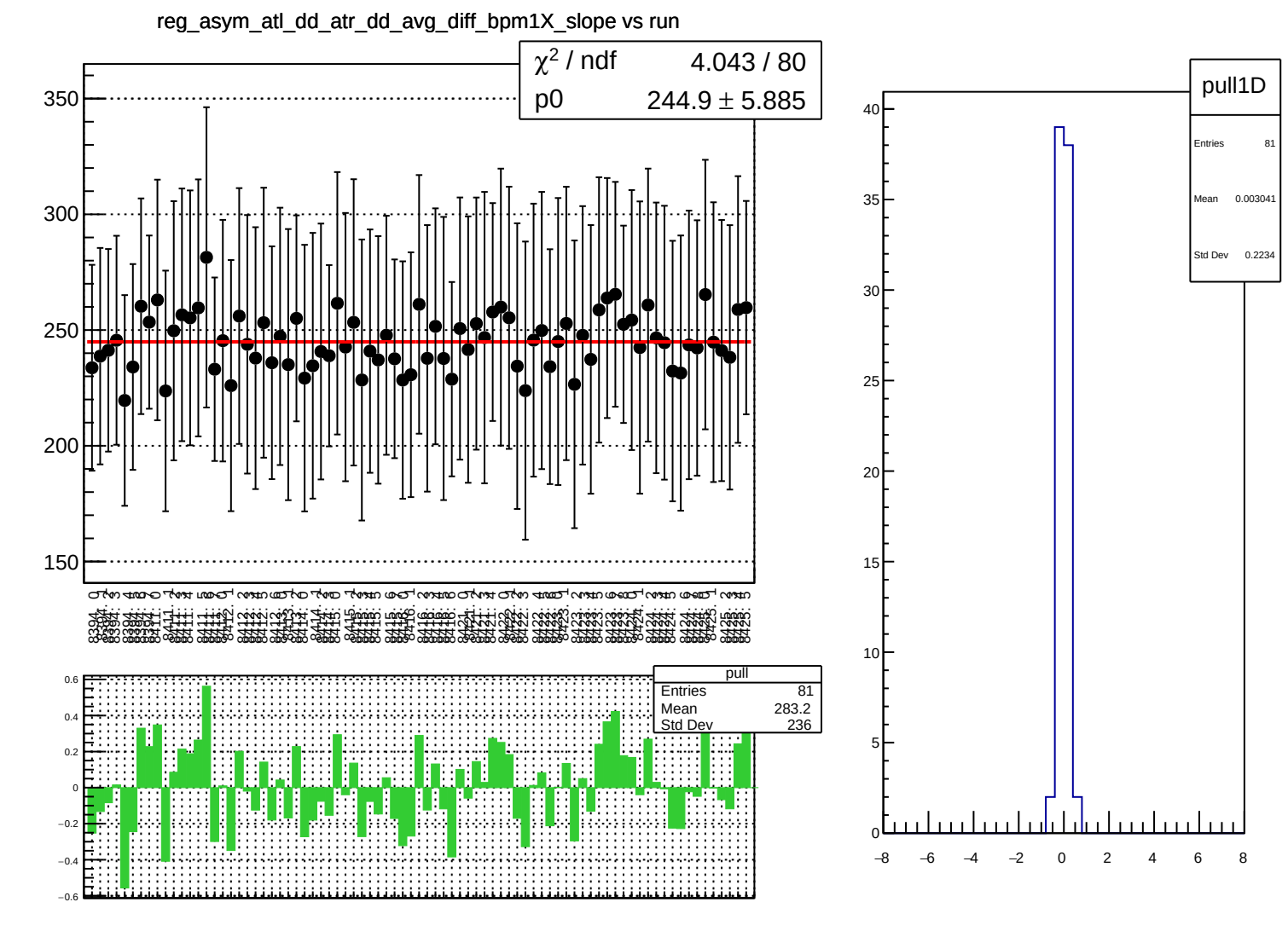

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.61 / 80
p0 −156.7 ± 5.062
−50
−100
−150
−200
−250
−300
pull
Entries 81
Mean 292
Std Dev 252.8
1
0.5
0
−0.5
−1

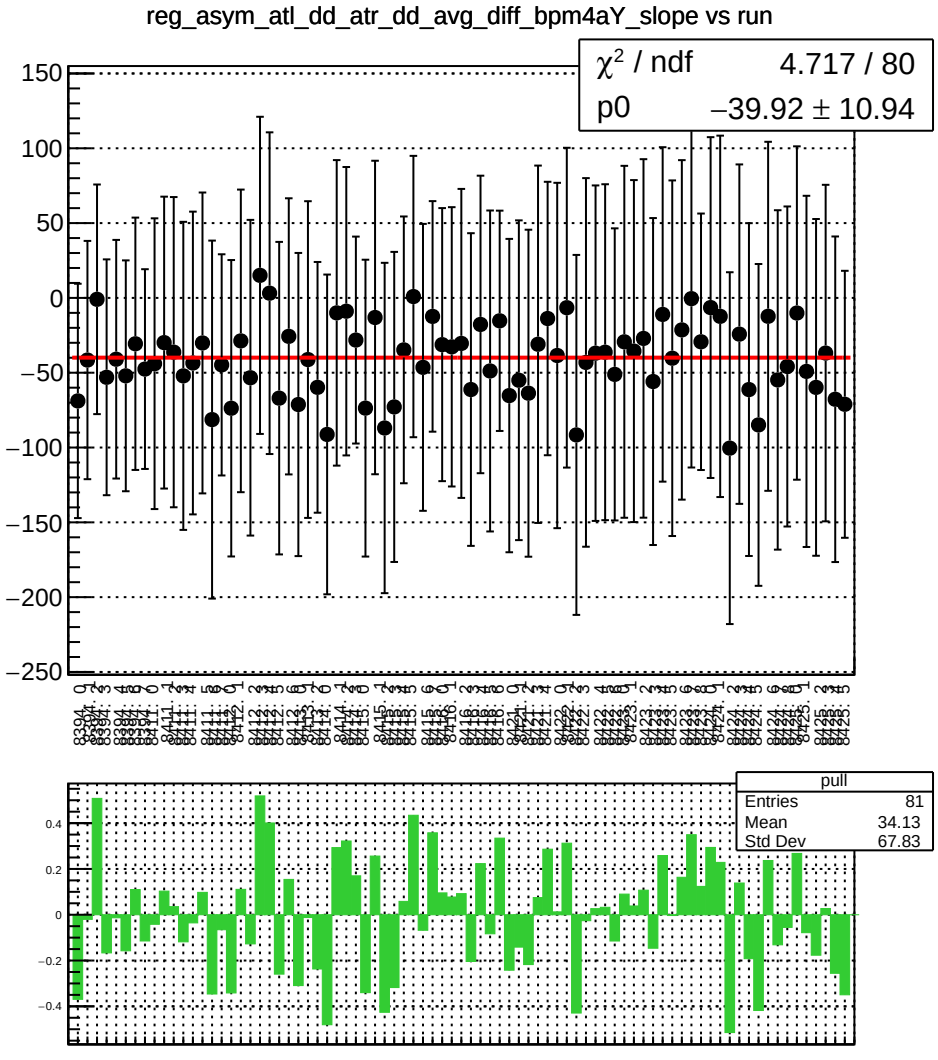

pull1D
Entries 81
Mean 0.00186
Std Dev 0.3946
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

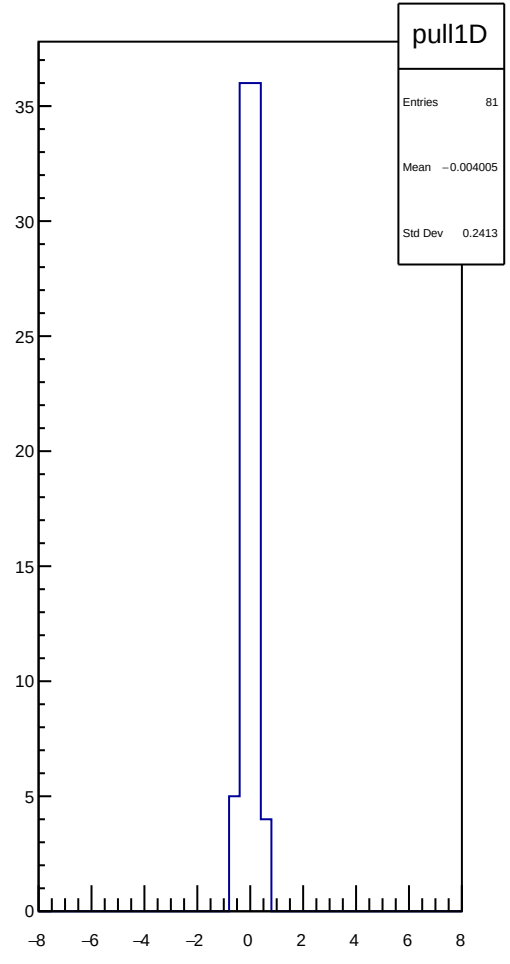

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.12 / 80
p0 −25.99 ± 8.909
pull
Entries 81
Mean 55.11
Std Dev 48.93

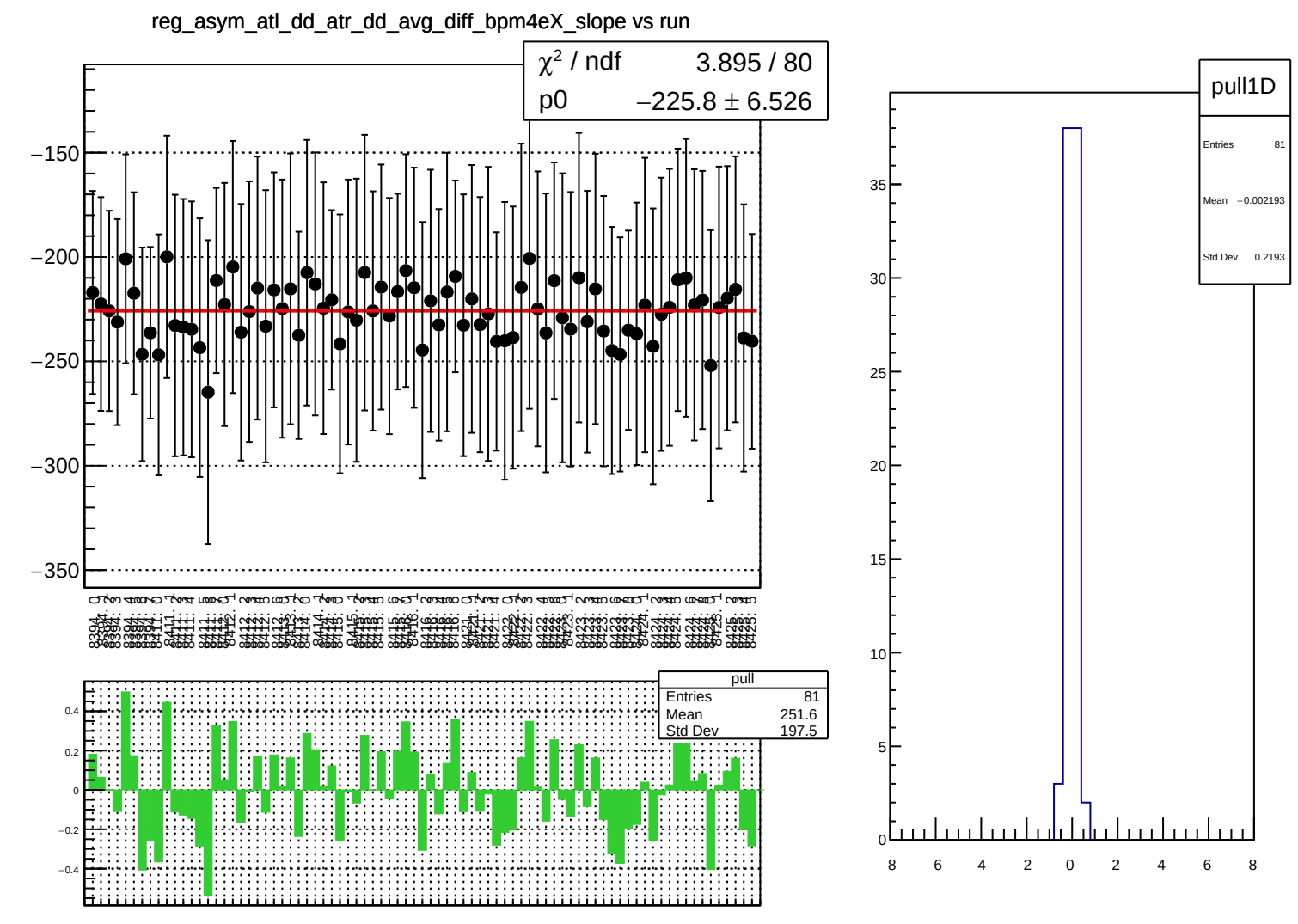

pull1D
Entries 81
Mean 0.01205
Std Dev 0.4318

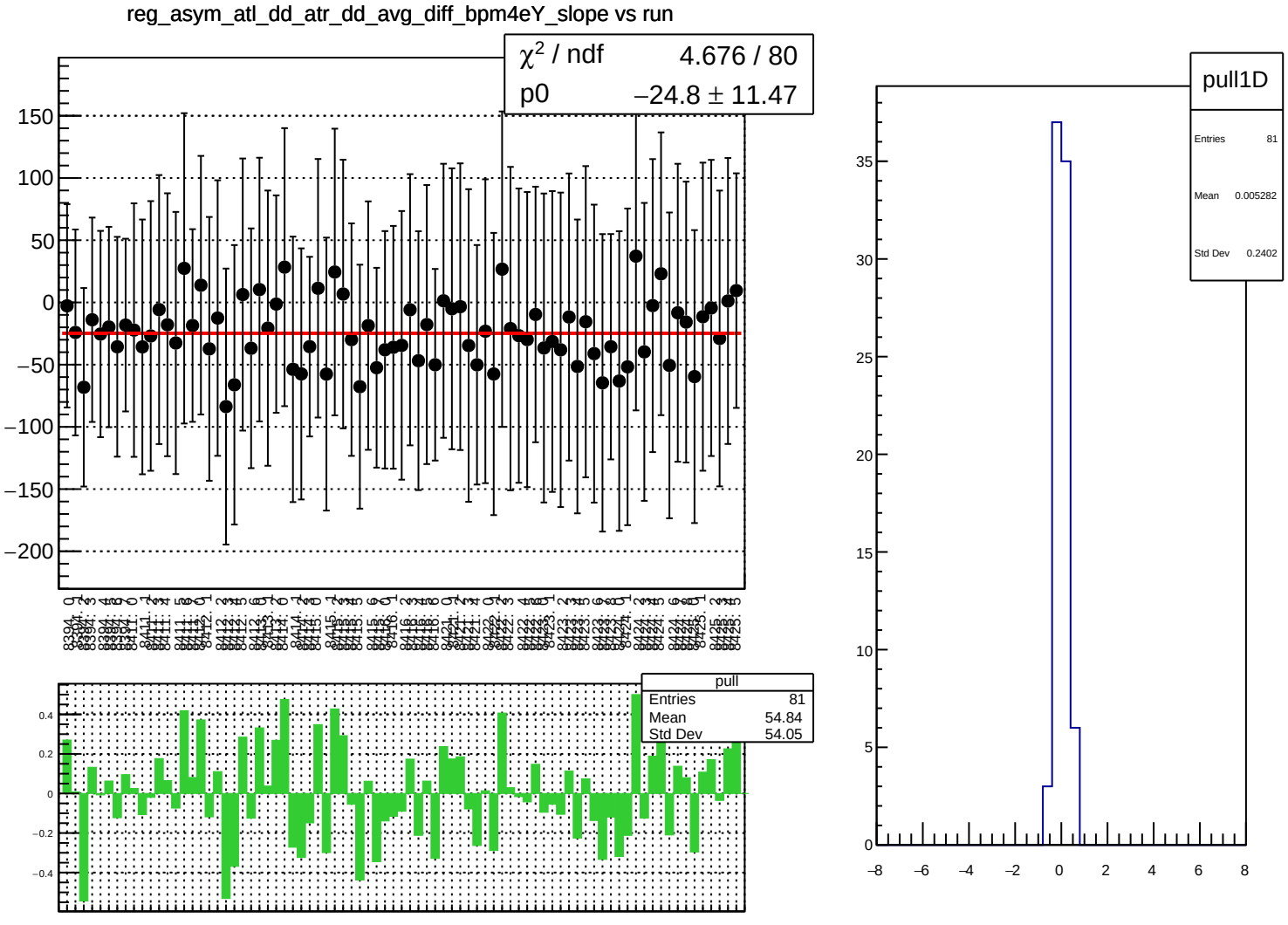

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 15.26 / 80
p0 104.1 ± 0.536
115
110
105
100
95
pull
Entries 81
Mean 628
Std Dev 599.4
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean −0.003618
Std Dev 0.434
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

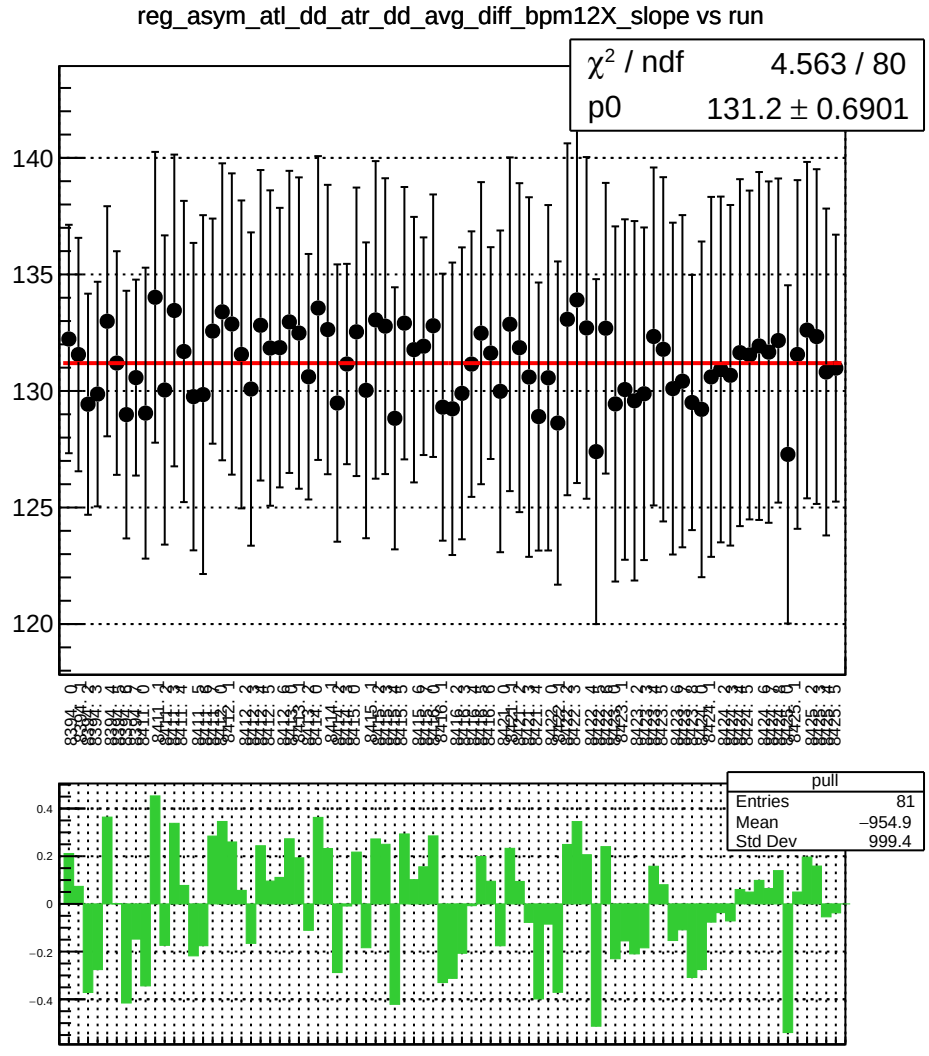

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 4.043 / 80
p0 244.9 ± 5.885
350
300
250
200
150
pull
Entries 81
Mean 283.2
Std Dev 236
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 81
Mean 0.003041
Std Dev 0.2234
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

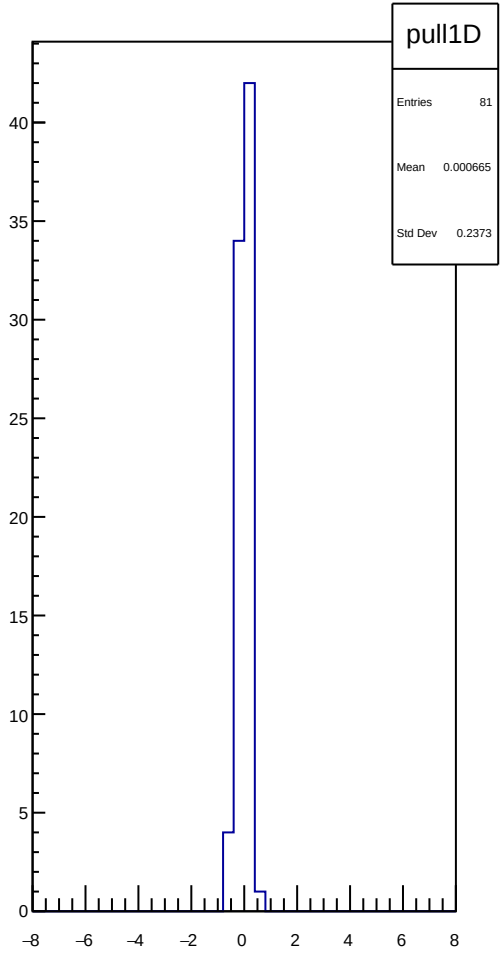

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.717 / 80
p0 −39.92 ± 10.94
pull
Entries 81
Mean 34.13
Std Dev 67.83

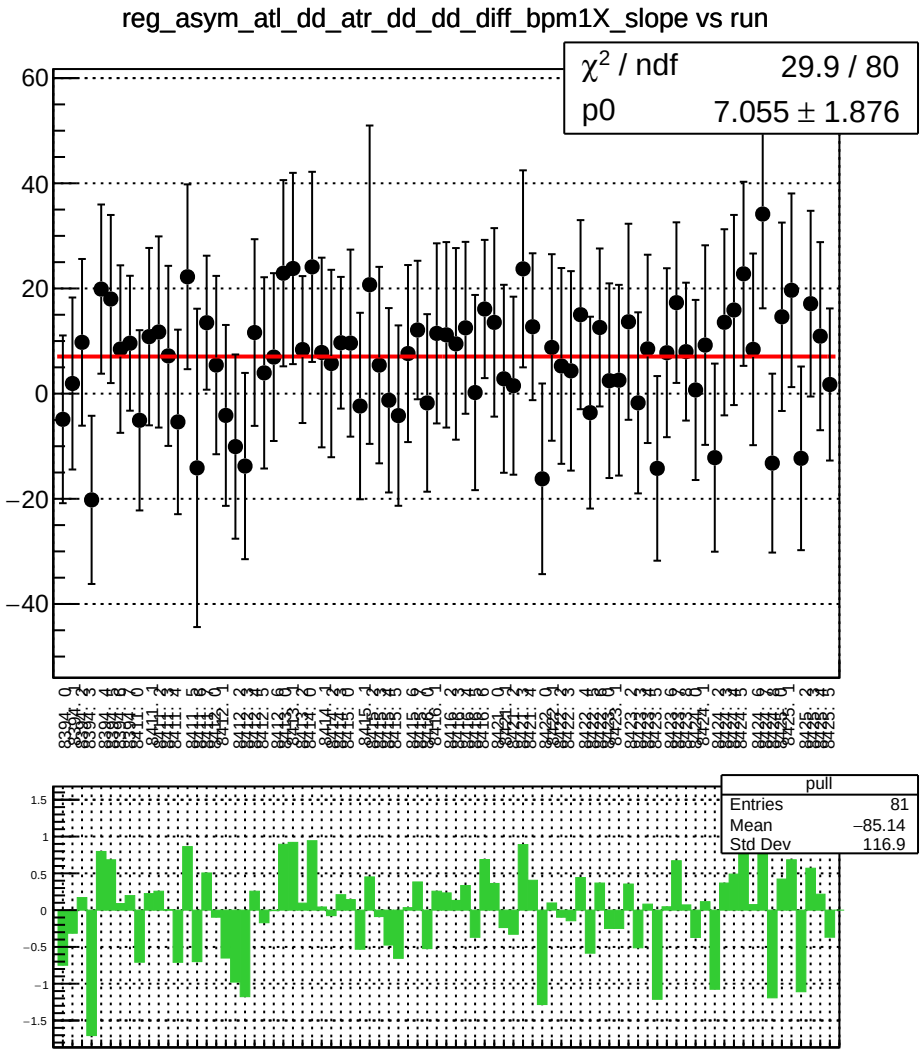

pull1D
Entries 81
Mean −0.004005
Std Dev 0.2413

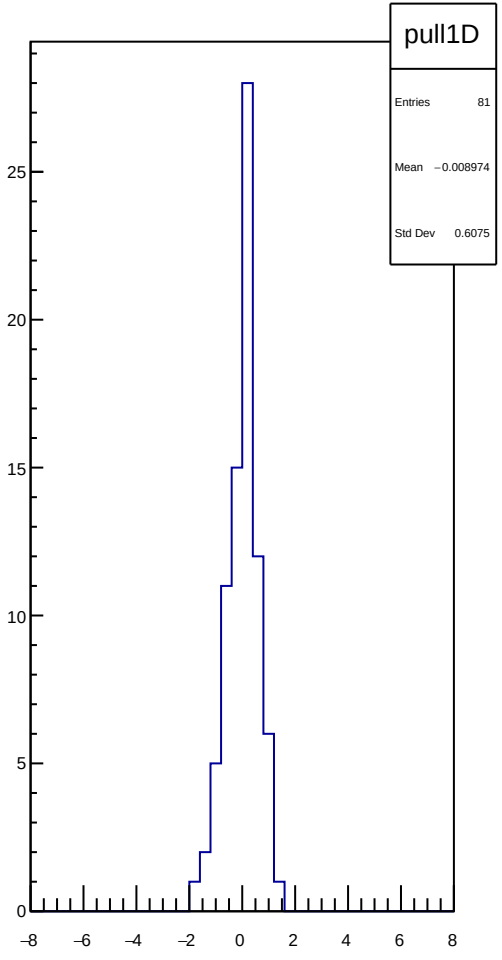

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.895 / 80
p0 −225.8 ± 6.526
−150
−200
−250
−300
−350
pull
Entries 81
Mean 251.6
Std Dev 197.5
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 81
Mean −0.002193
Std Dev 0.2193
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

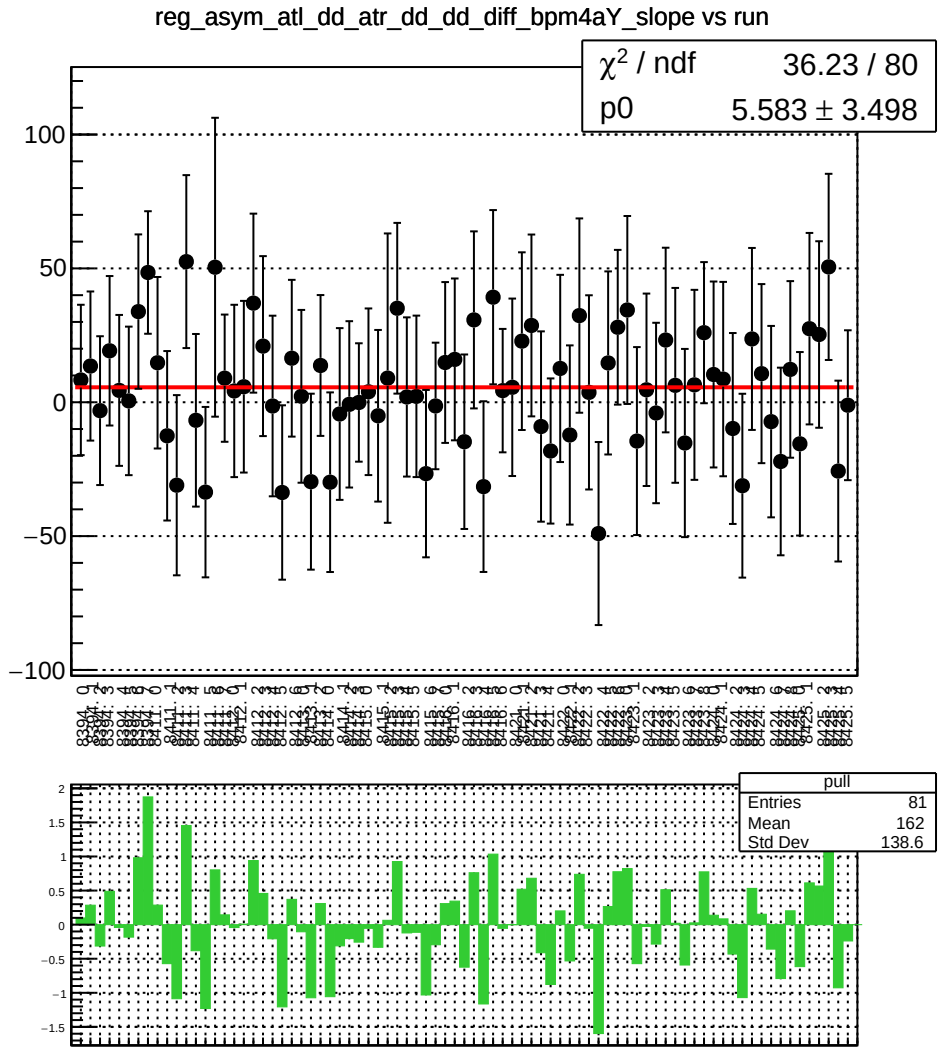

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.676 / 80
p0 −24.8 ± 11.47
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean 54.84
Std Dev 54.05
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 81
Mean 0.005282
Std Dev 0.2402
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

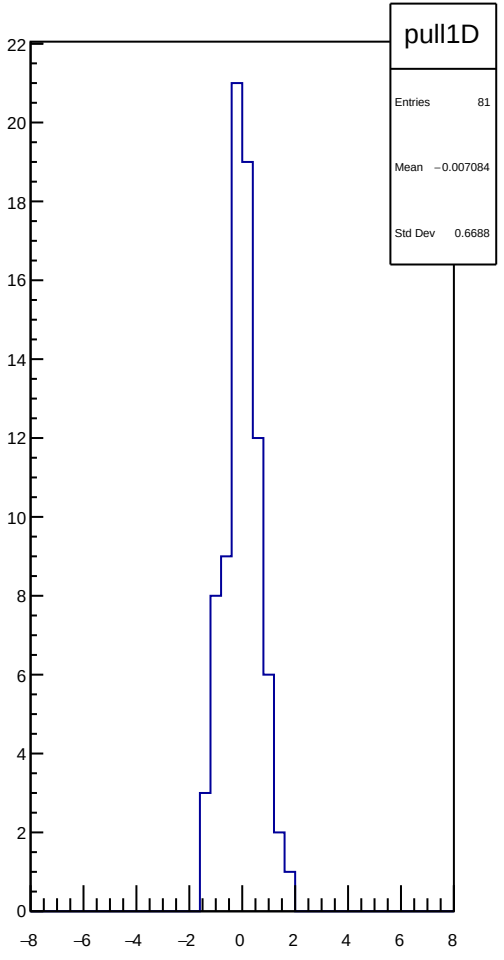

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 4.563 / 80
p0 131.2 ± 0.6901
140
135
130
125
120
pull
Entries 81
Mean −954.9
Std Dev 999.4
0.4
0.2
0
−0.2
−0.4

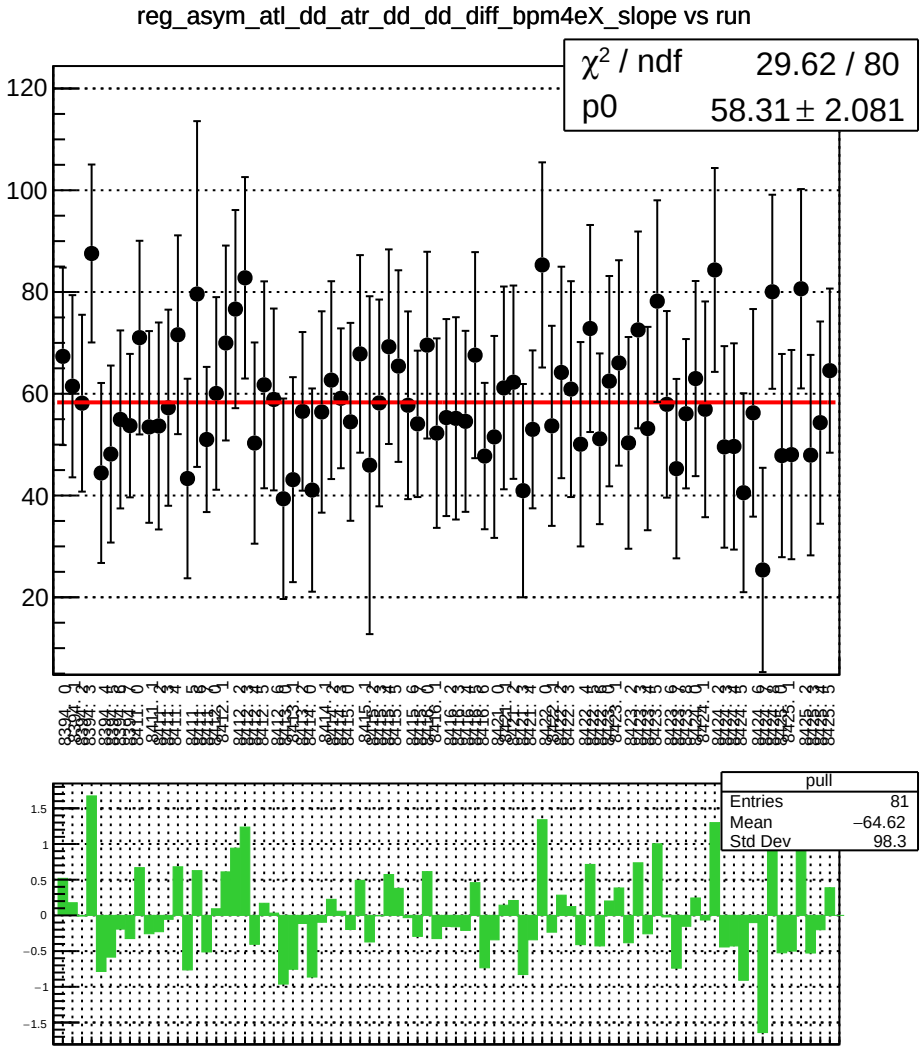

pull1D
Entries 81
Mean 0.000665
Std Dev 0.2373
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

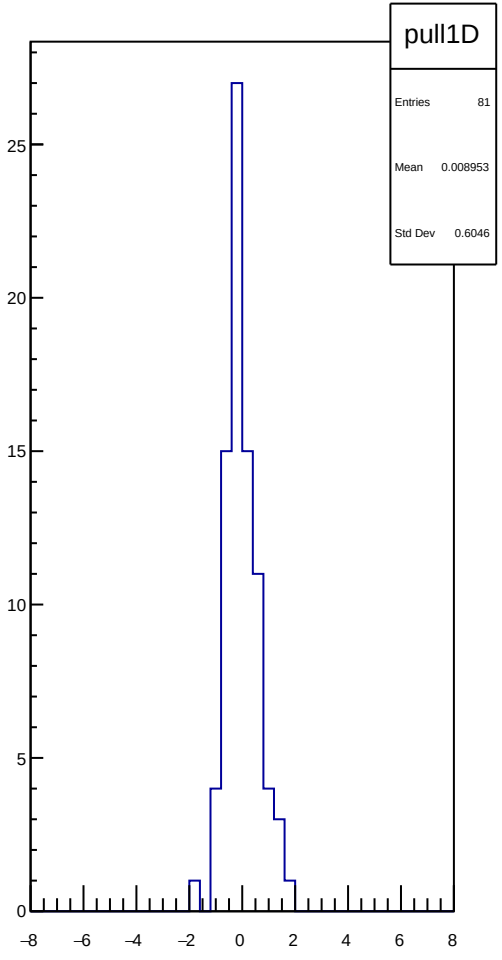

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 29.9 / 80
p0 7.055 ± 1.876
pull
Entries 81
Mean −85.14
Std Dev 116.9

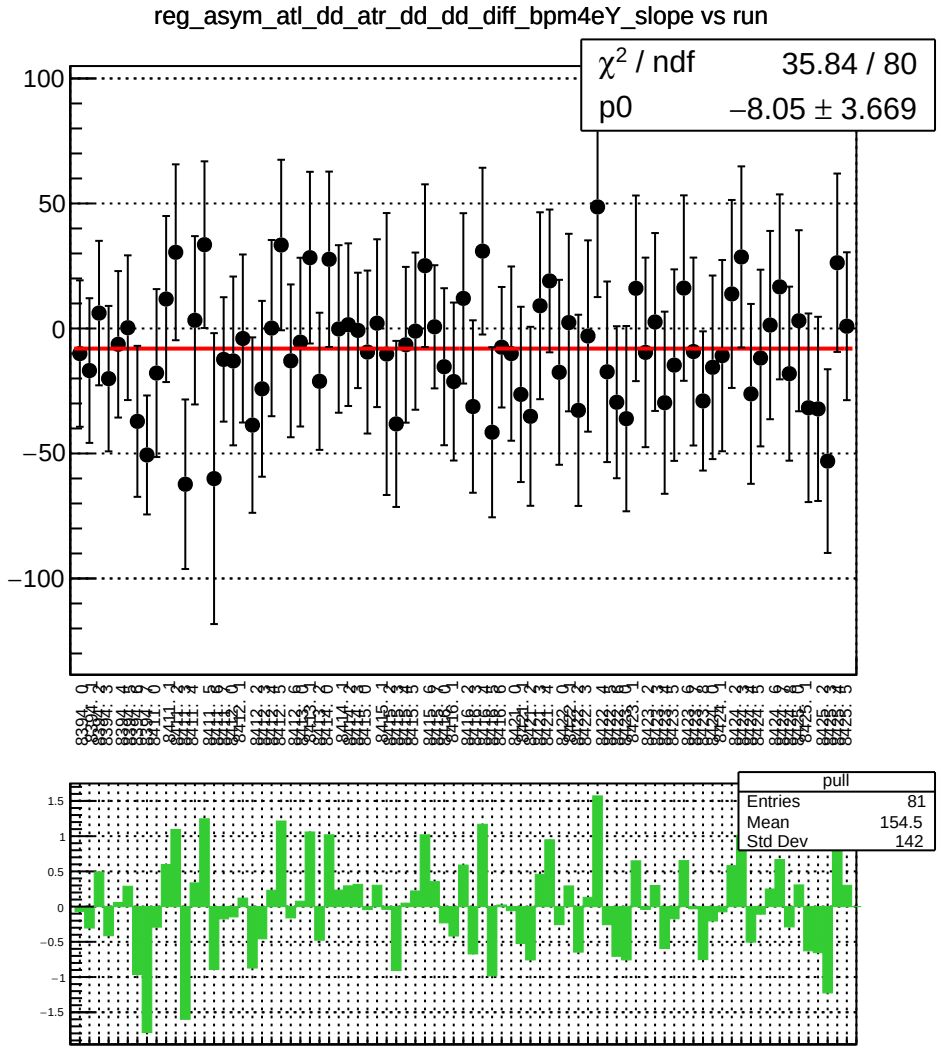

pull1D
Entries 81
Mean −0.008974
Std Dev 0.6075

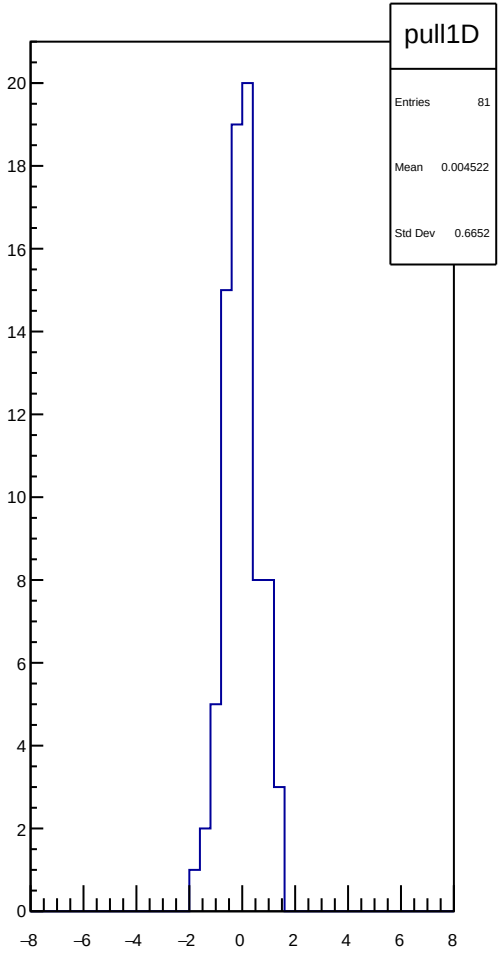

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.23 / 80
p0 5.583 ± 3.498
pull
Entries 81
Mean 162
Std Dev 138.6

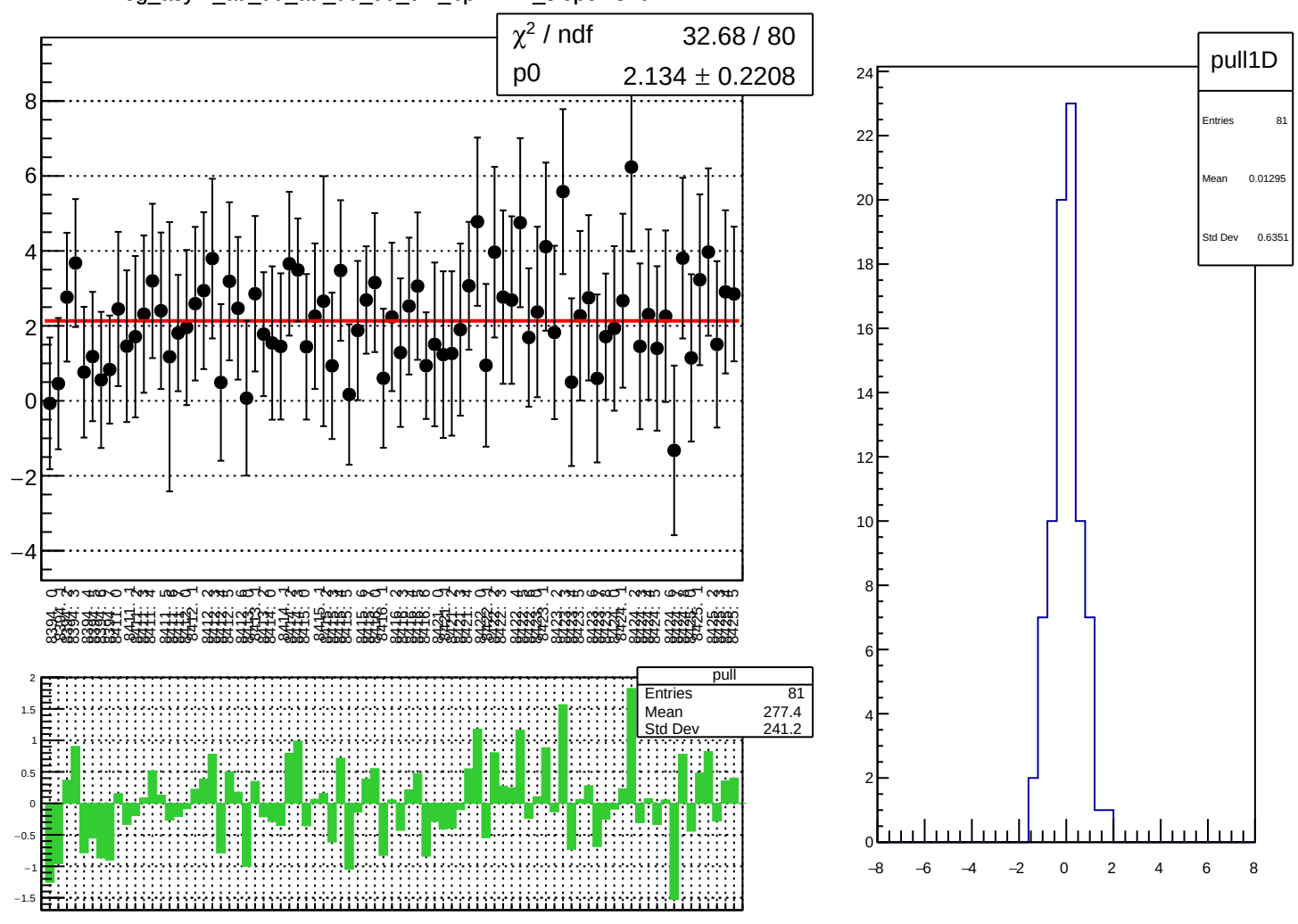

pull1D
Entries 81
Mean −0.007084
Std Dev 0.6688

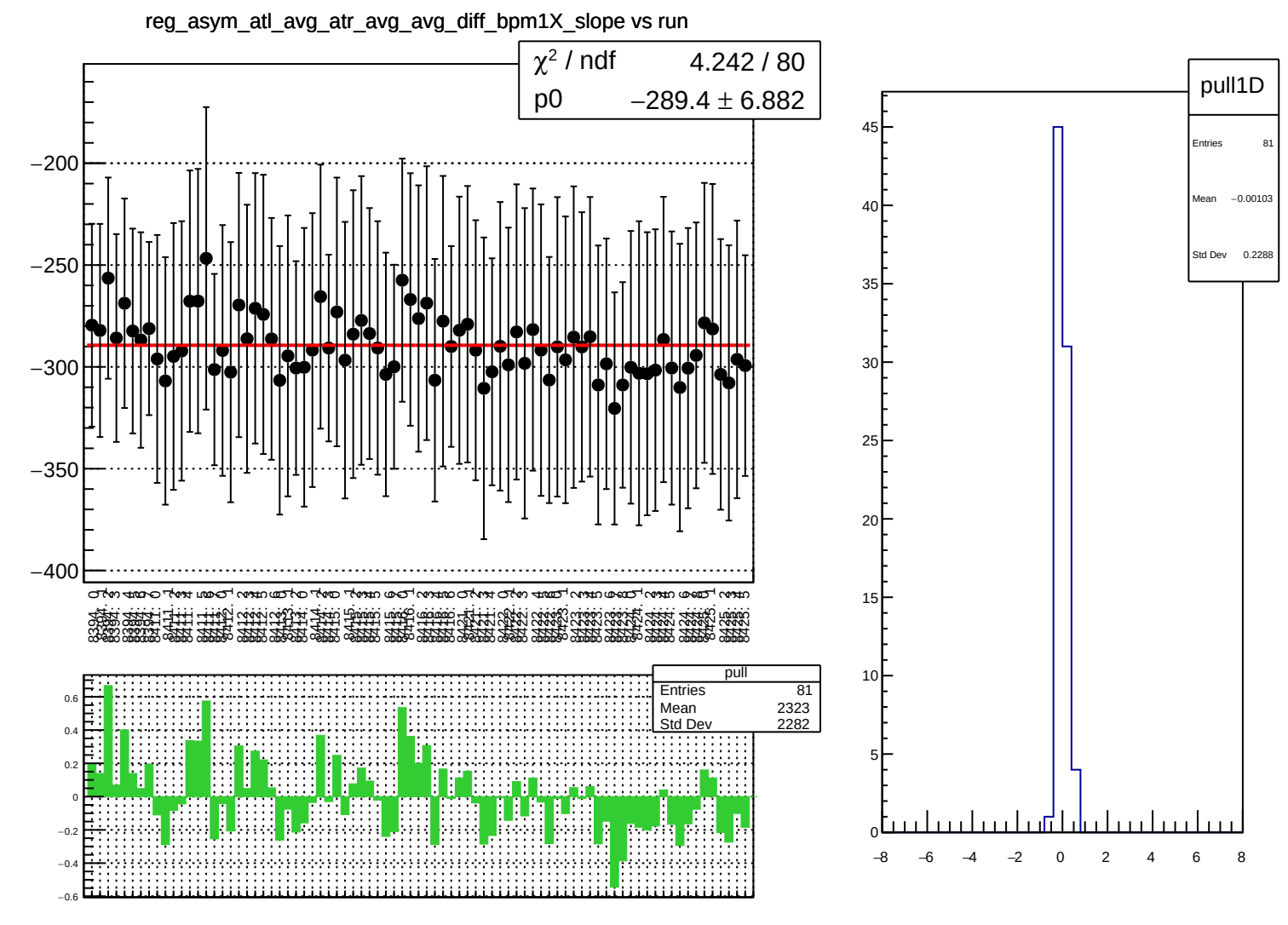

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.62 / 80
p0 58.31 ± 2.081
120
100
80
60
40
20
pull
Entries 81
Mean −64.62
Std Dev 98.3
1.5
1
0.5
0
−0.5
−1
−1.5

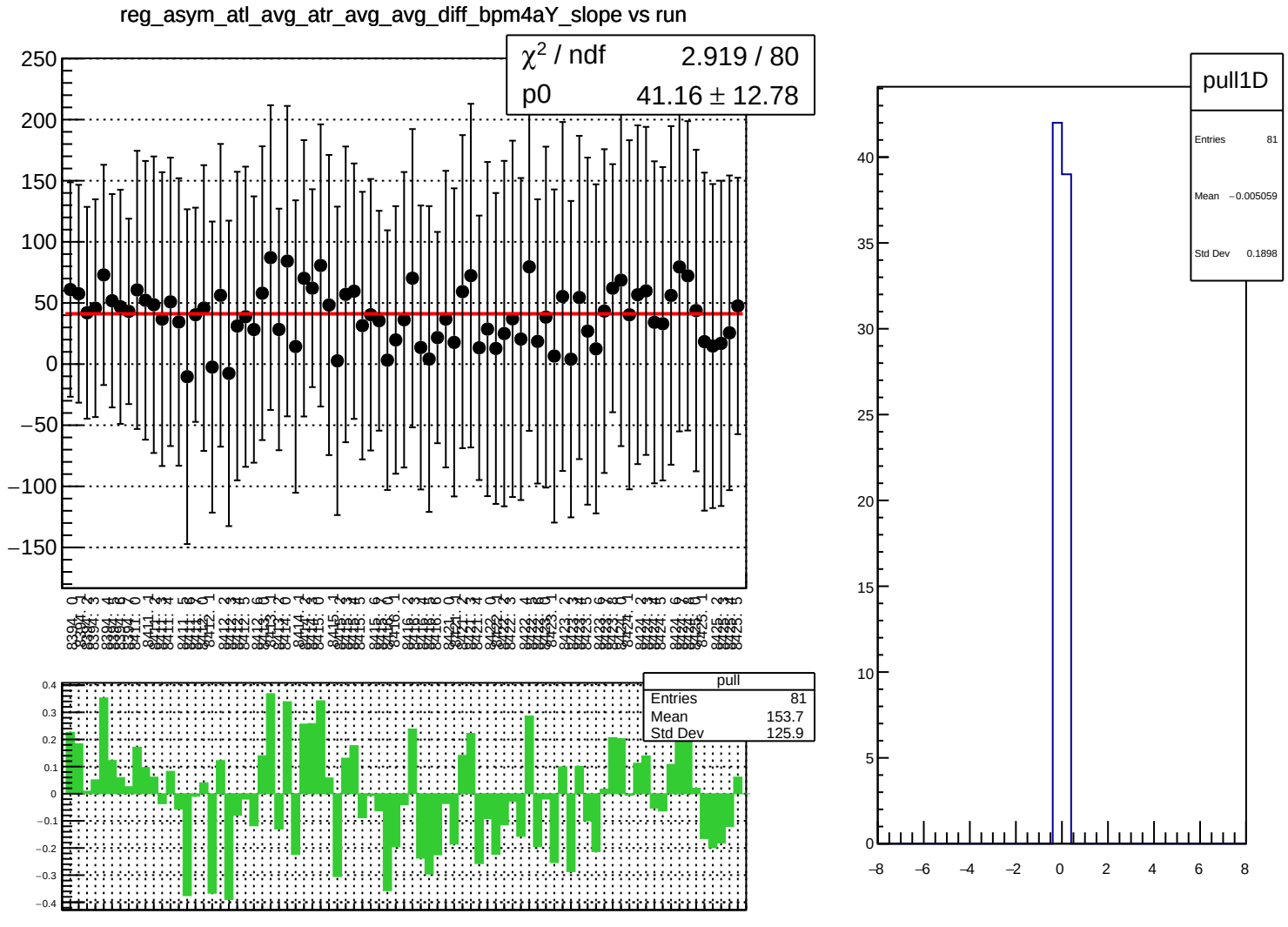

pull1D
Entries 81
Mean 0.008953
Std Dev 0.6046
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

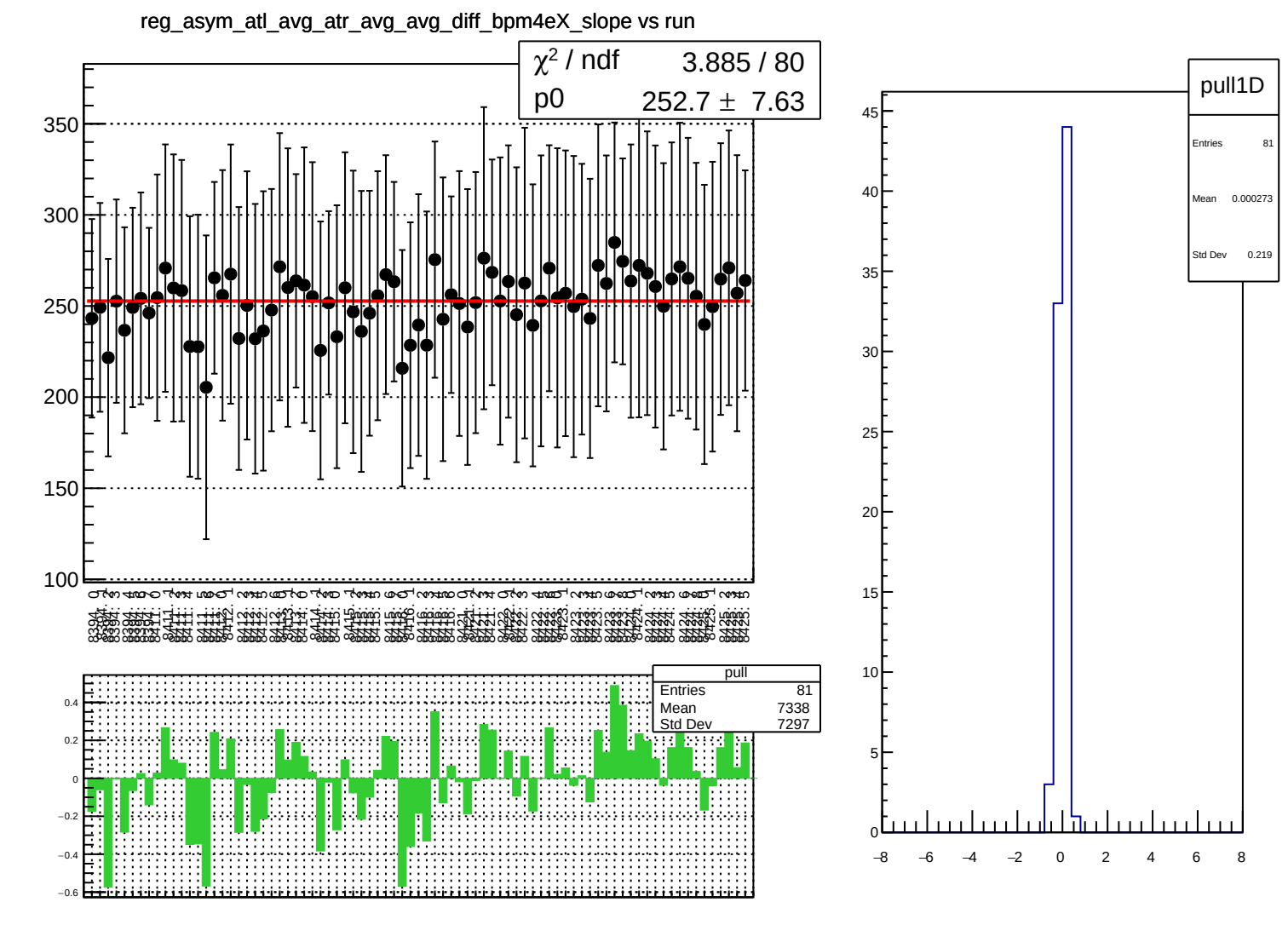

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.84 / 80
p0 −8.05 ± 3.669
pull
Entries 81
Mean 154.5
Std Dev 142

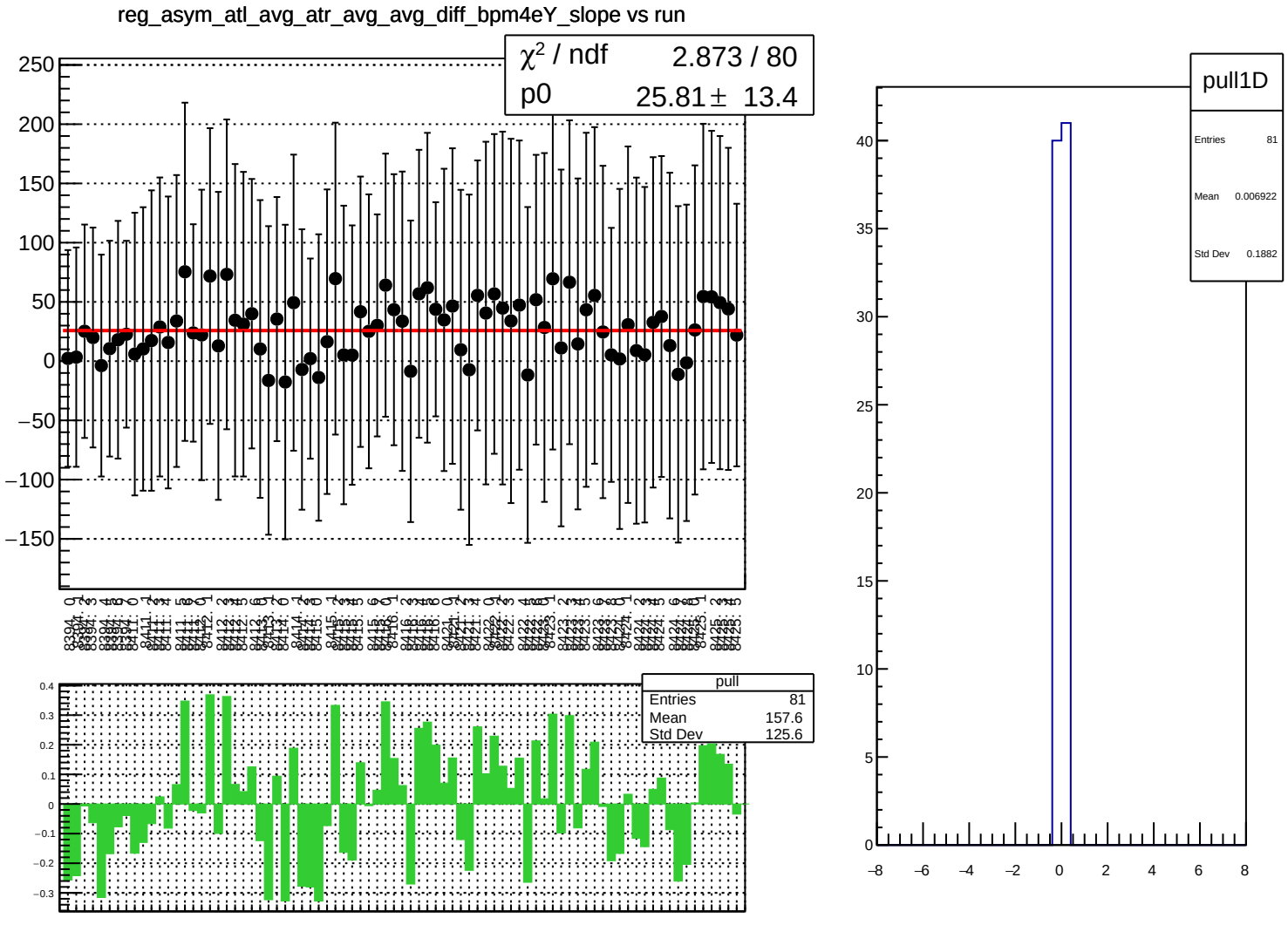

pull1D
Entries 81
Mean 0.004522
Std Dev 0.6652

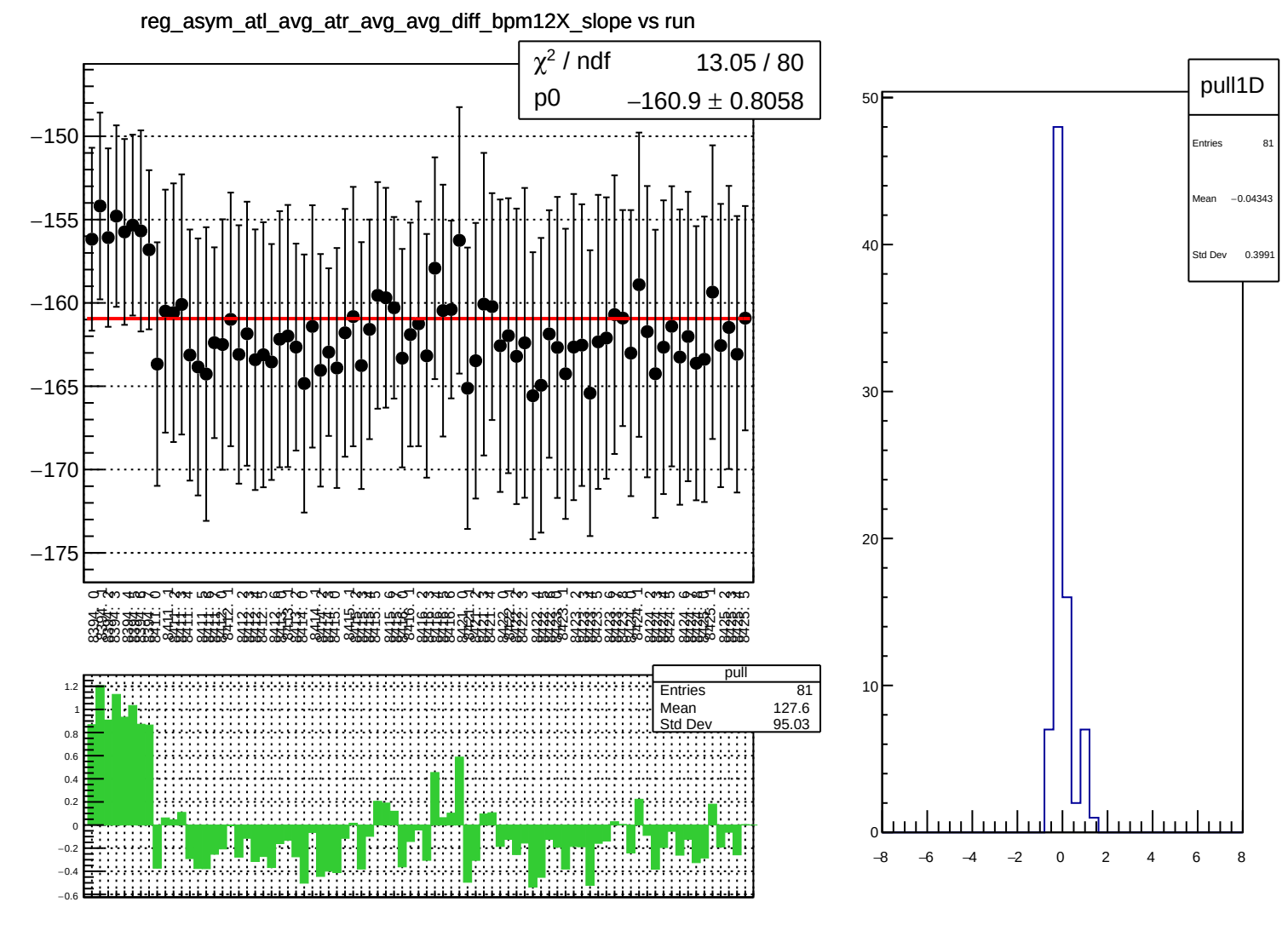

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 32.68 / 80
p0 2.134 ± 0.2208
pull
Entries 81
Mean 277.4
Std Dev 241.2
pull1D
Entries 81
Mean 0.01295
Std Dev 0.6351

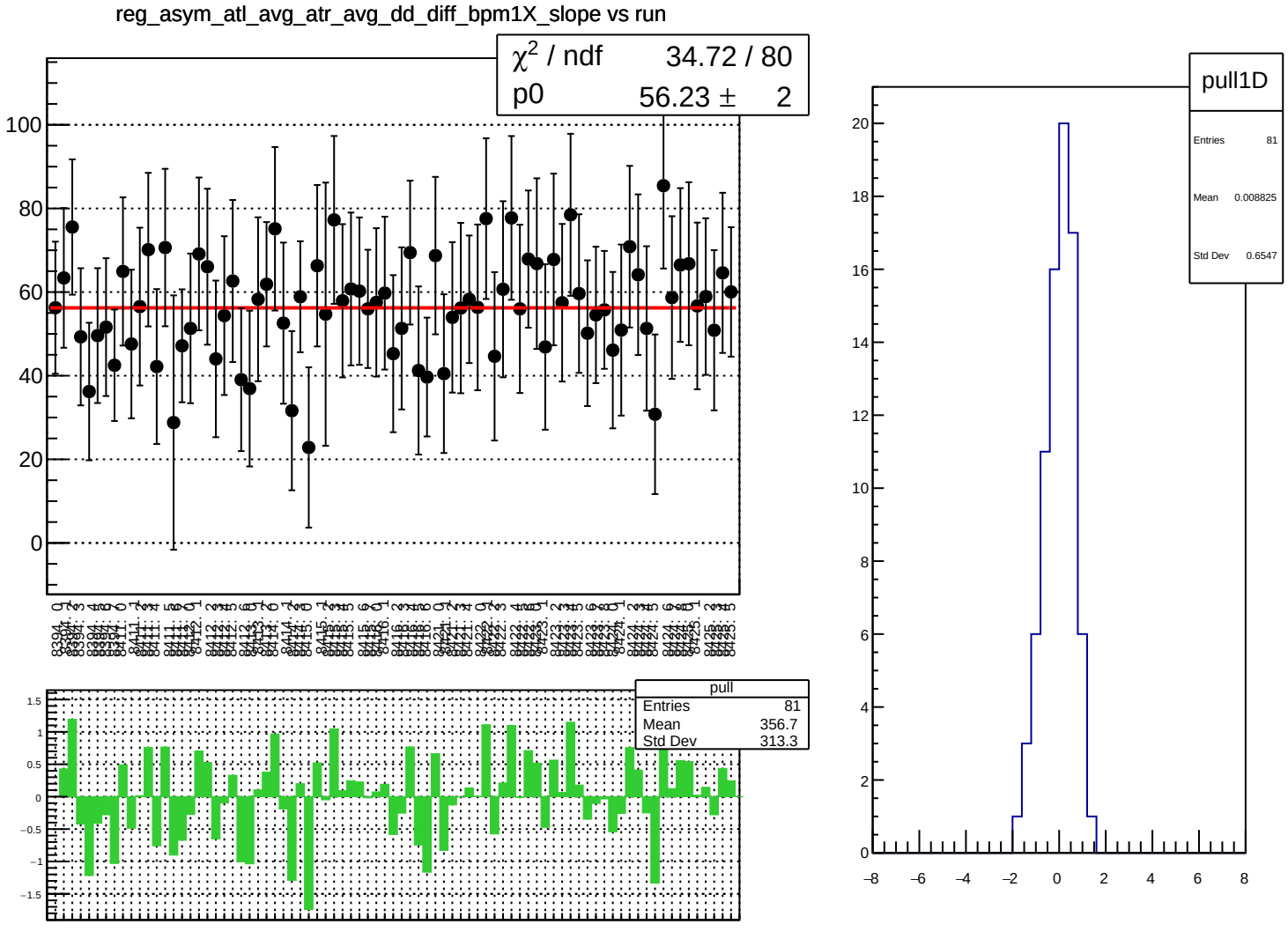

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 4.242 / 80
p0 −289.4 ± 6.882
−200
−250
−300
−350
−400
pull
Entries 81
Mean 2323
Std Dev 2282
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 81
Mean −0.00103
Std Dev 0.2288
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

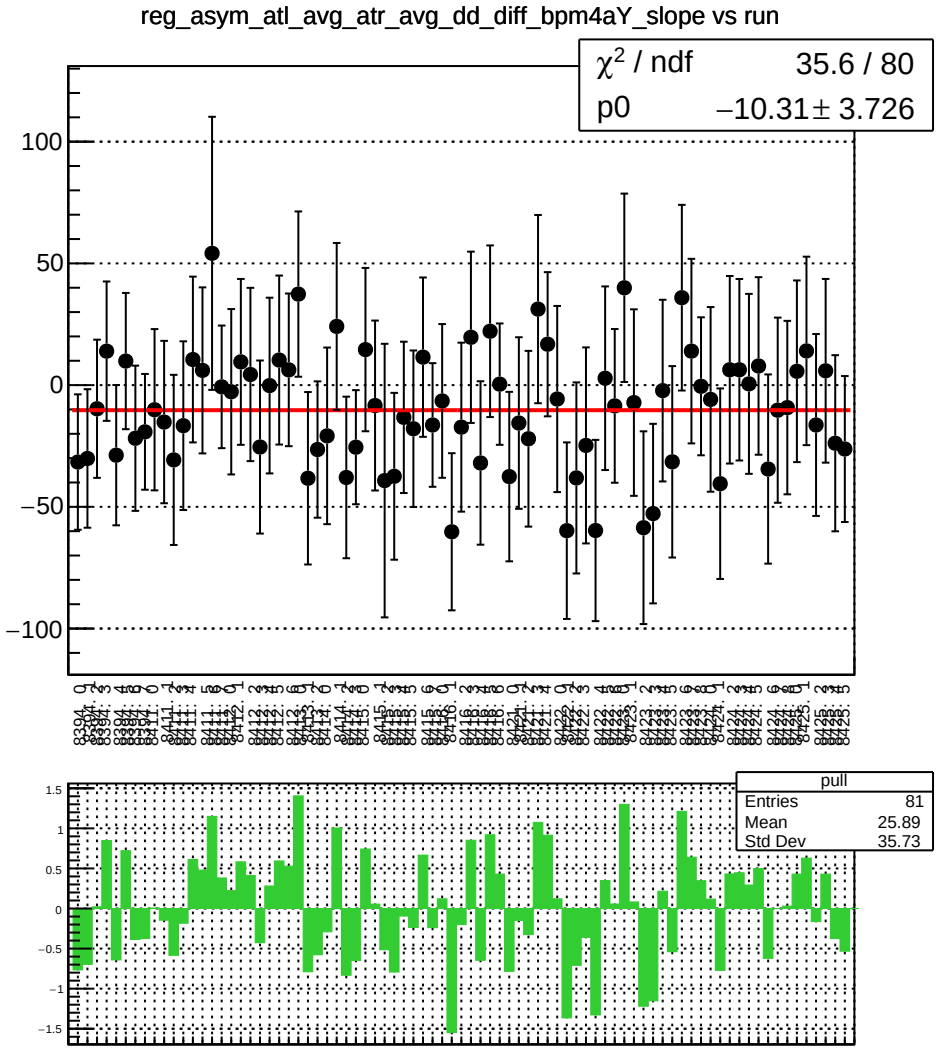

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.919 / 80
p0 41.16 ± 12.78
pull
Entries 81
Mean 153.7
Std Dev 125.9
pull1D
Entries 81
Mean −0.005059
Std Dev 0.1898

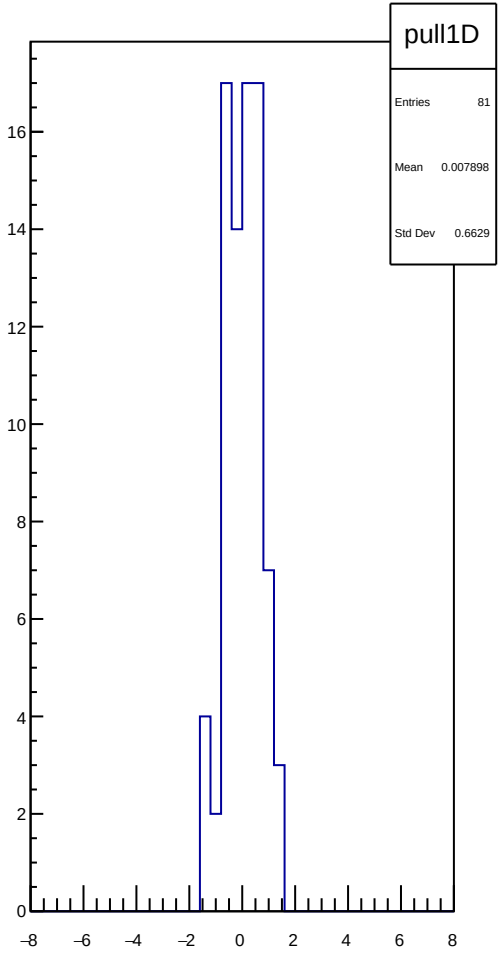

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.885 / 80
p0 252.7 ± 7.63
pull
Entries 81
Mean 7338
Std Dev 7297
pull1D
Entries 81
Mean 0.000273
Std Dev 0.219

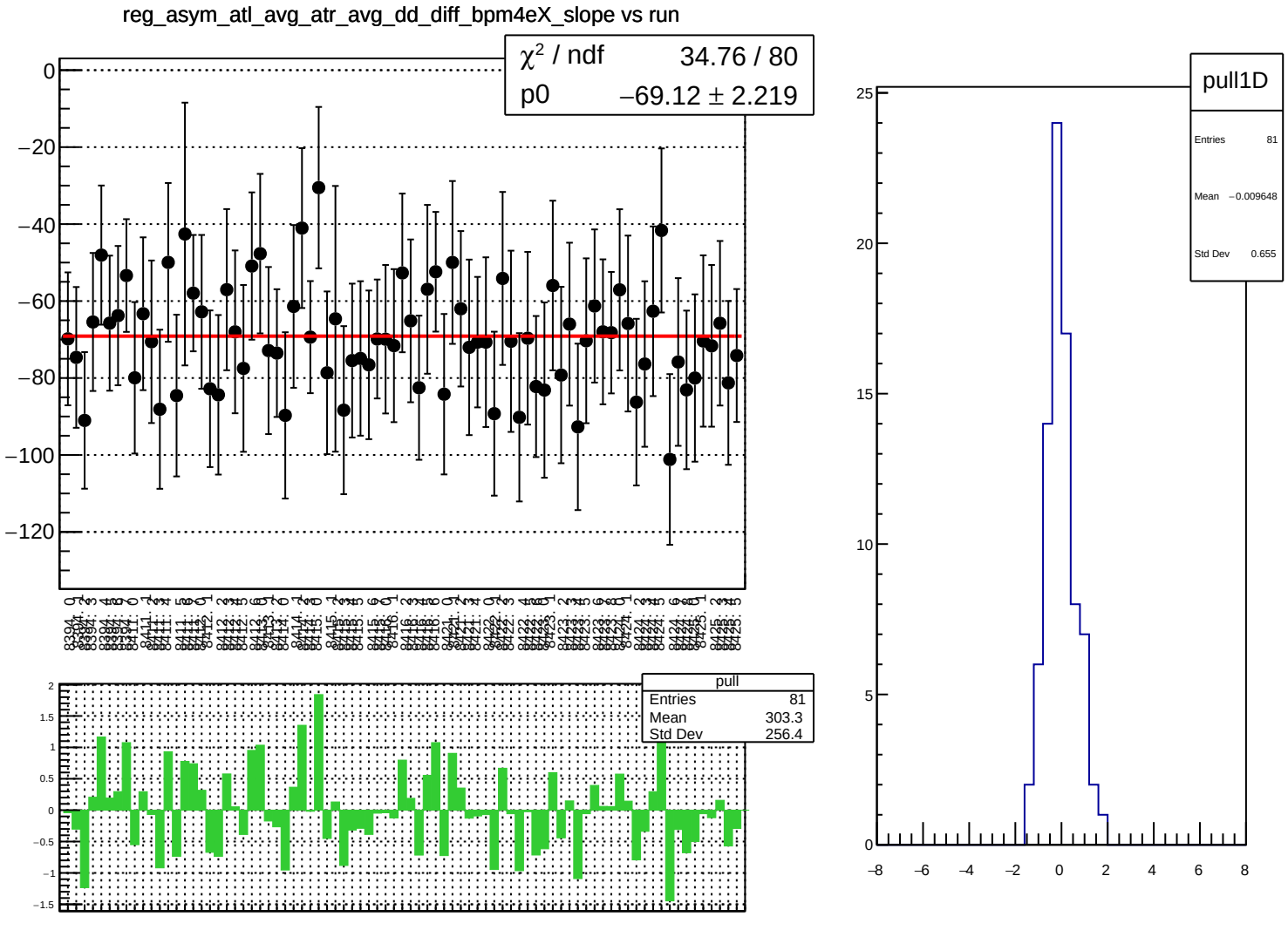

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.873 / 80
p0 25.81 ± 13.4
pull
Entries 81
Mean 157.6
Std Dev 125.6
pull1D
Entries 81
Mean 0.006922
Std Dev 0.1882

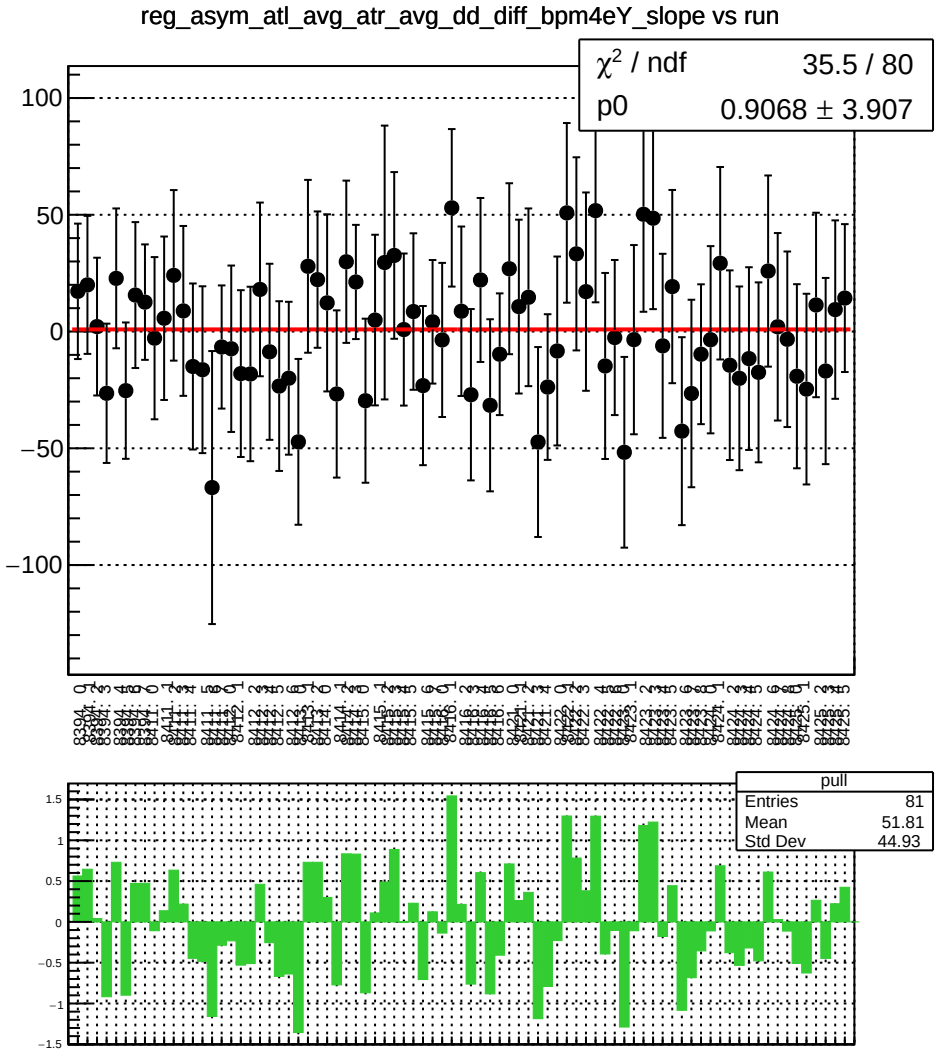

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 13.05 / 80
p0 −160.9 ± 0.8058
pull
Entries 81
Mean 127.6
Std Dev 95.03
pull1D
Entries 81
Mean −0.04343
Std Dev 0.3991

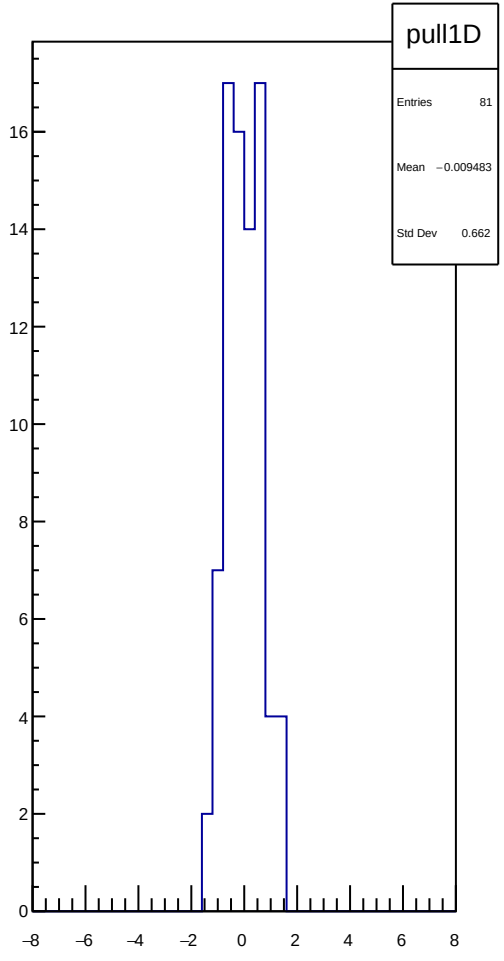

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 34.72 / 80
p0 56.23 ± 2
pull
Entries 81
Mean 356.7
Std Dev 313.3
pull1D
Entries 81
Mean 0.008825
Std Dev 0.6547

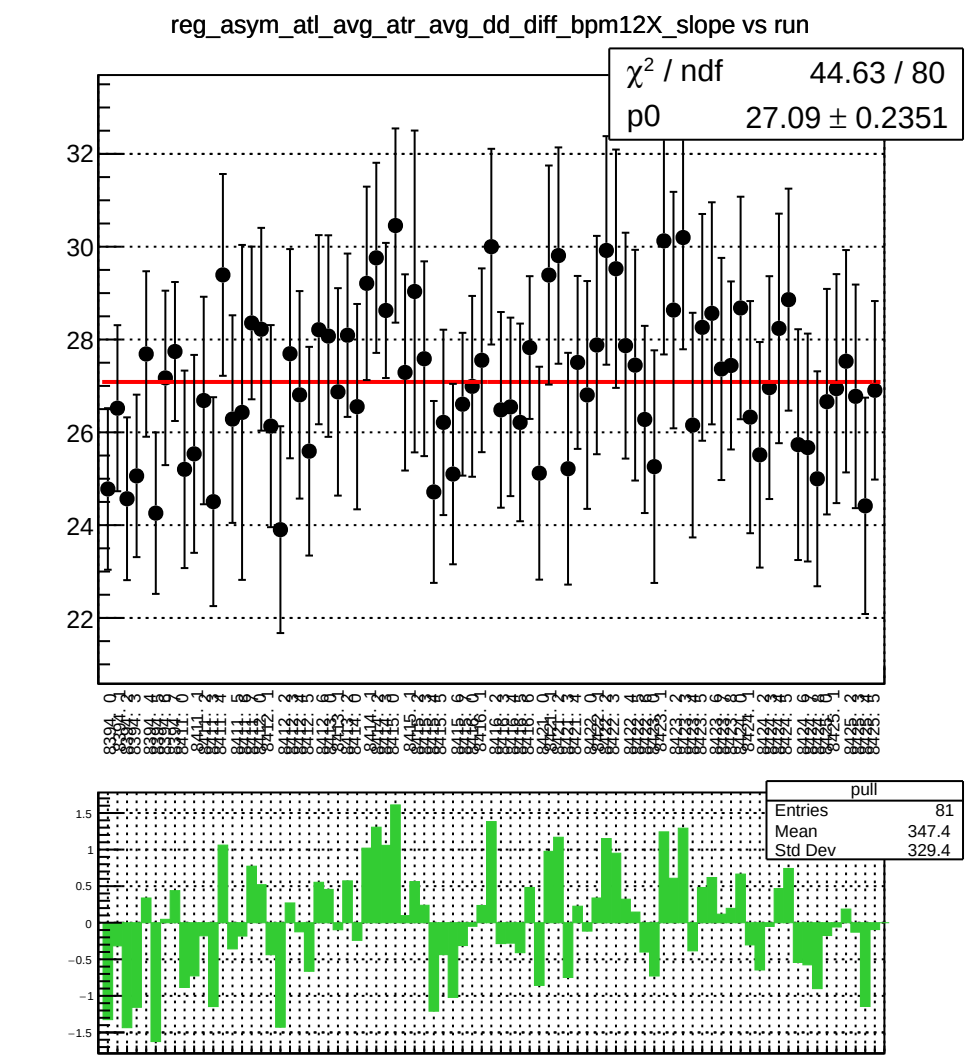

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.6 / 80
p0 −10.31 ± 3.726
pull
Entries 81
Mean 25.89
Std Dev 35.73

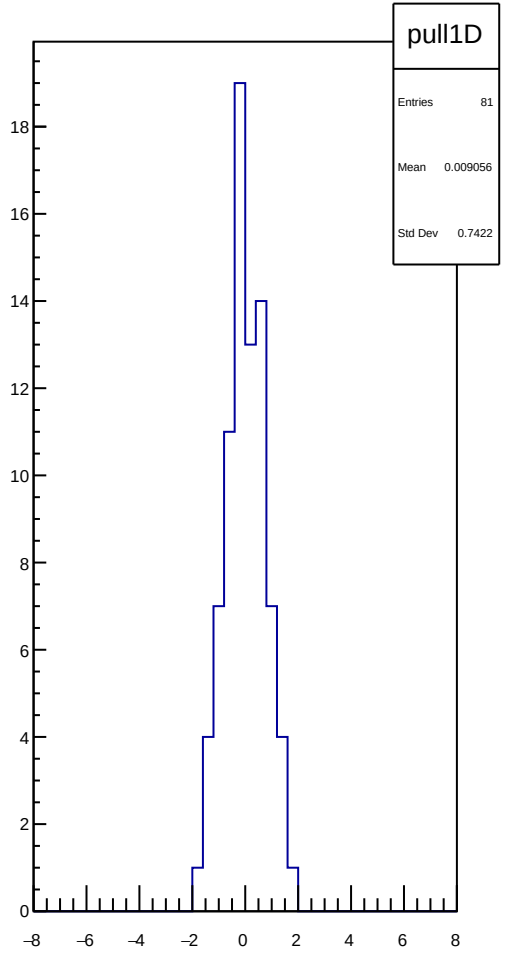

pull1D
Entries 81
Mean 0.007898
Std Dev 0.6629

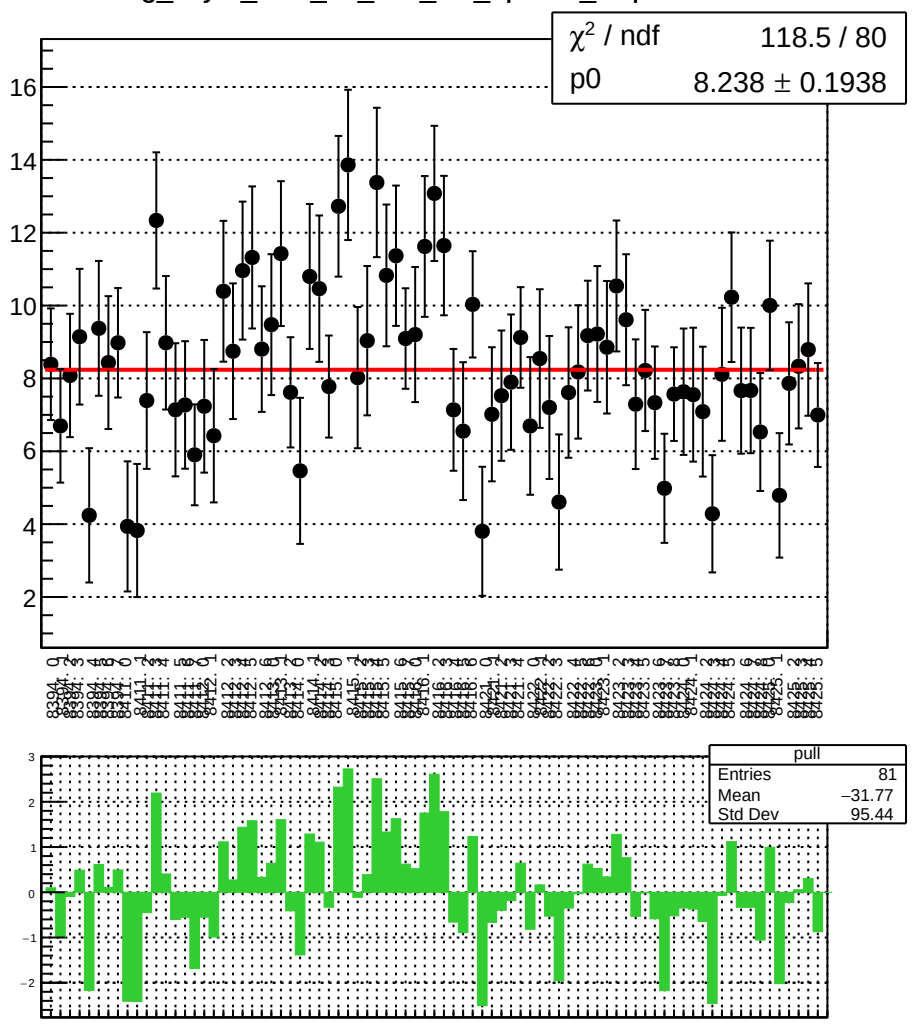

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.76 / 80
p0 −69.12 ± 2.219
pull
Entries 81
Mean 303.3
Std Dev 256.4
pull1D
Entries 81
Mean −0.009648
Std Dev 0.655

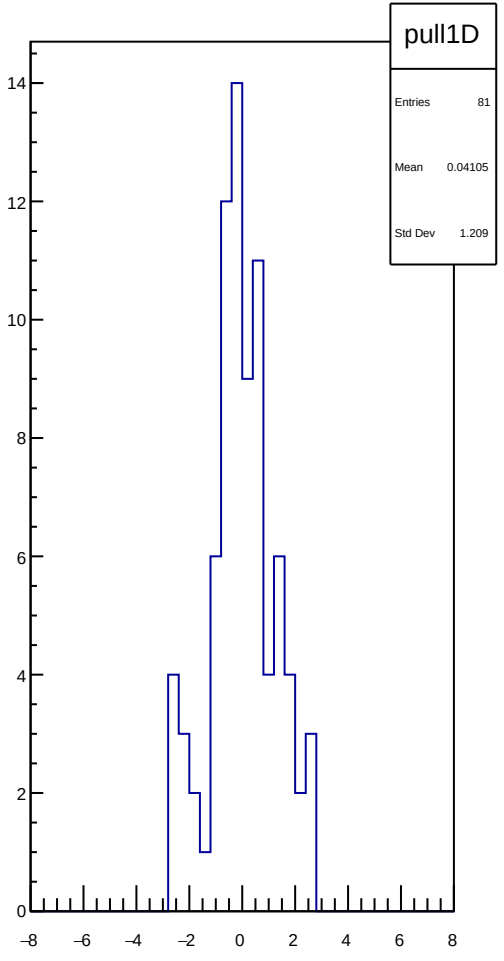

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.5 / 80
p0 0.9068 ± 3.907
pull
Entries 81
Mean 51.81
Std Dev 44.93

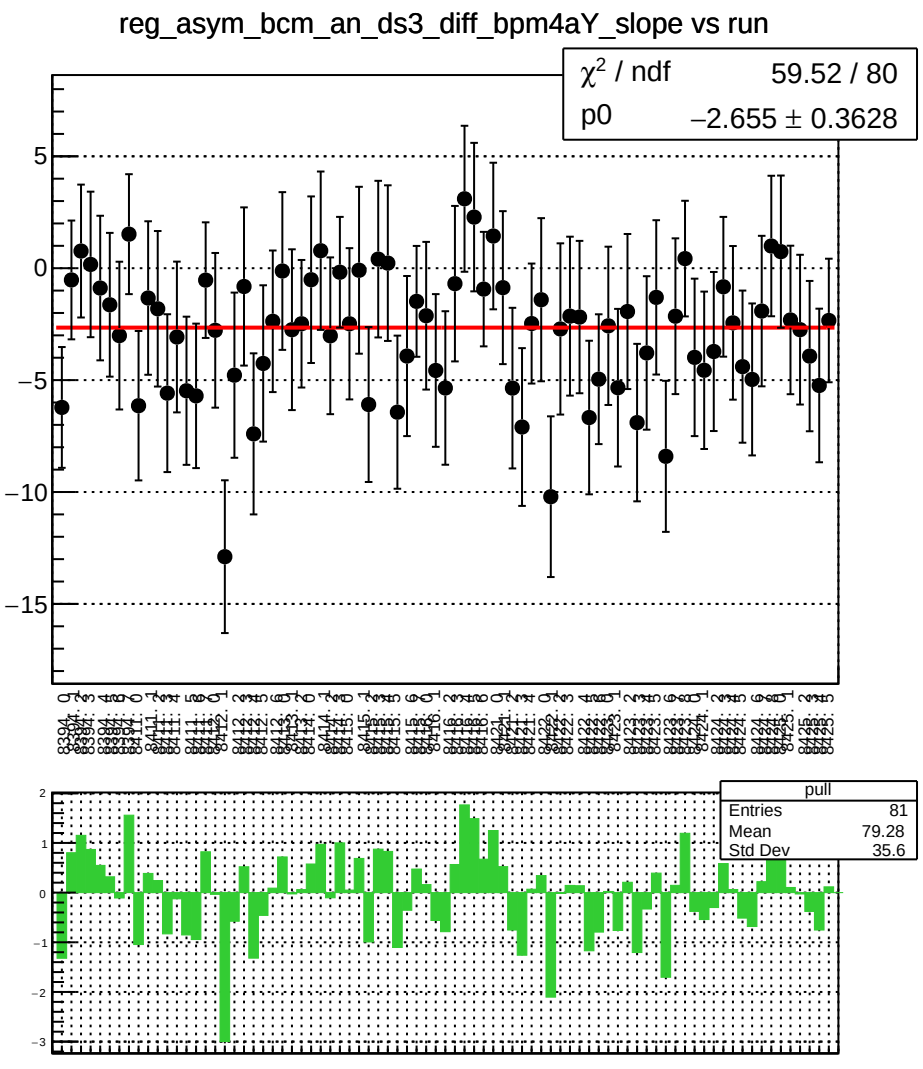

pull1D
Entries 81
Mean −0.009483
Std Dev 0.662

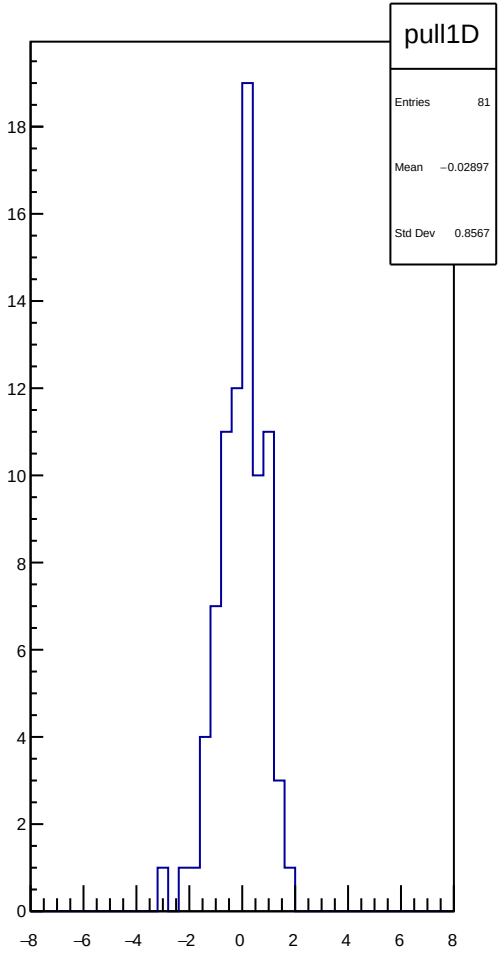

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 44.63 / 80
p0 27.09 ± 0.2351
pull
Entries 81
Mean 347.4
Std Dev 329.4

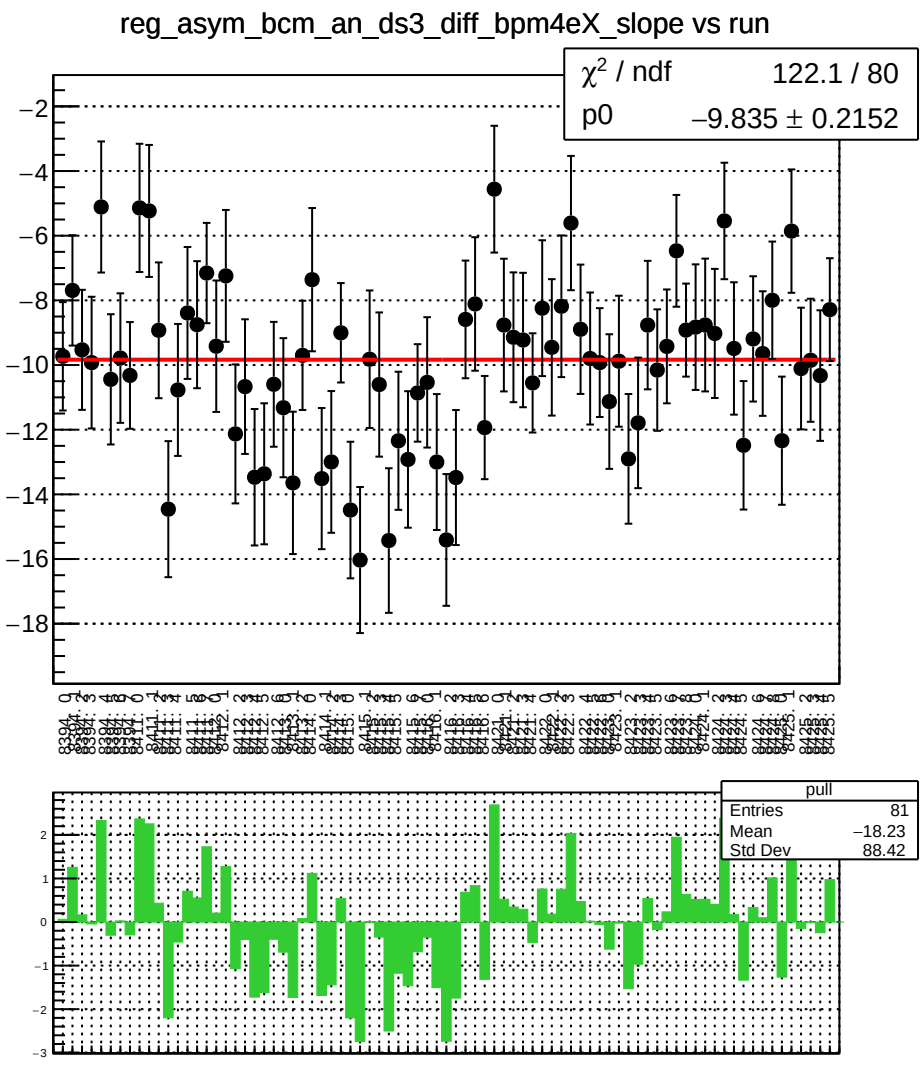

pull1D
Entries 81
Mean 0.009056
Std Dev 0.7422

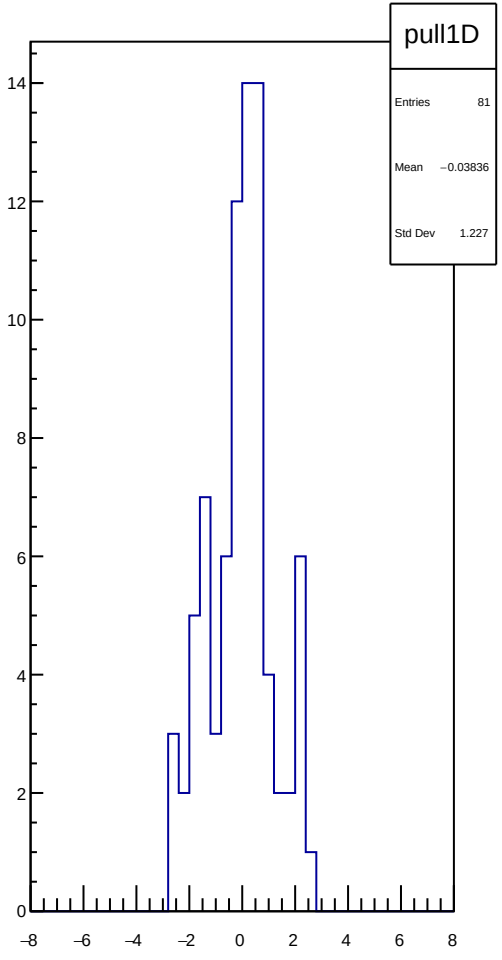

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 118.5 / 80
p0 8.238 ± 0.1938
pull
Entries 81
Mean −31.77
Std Dev 95.44

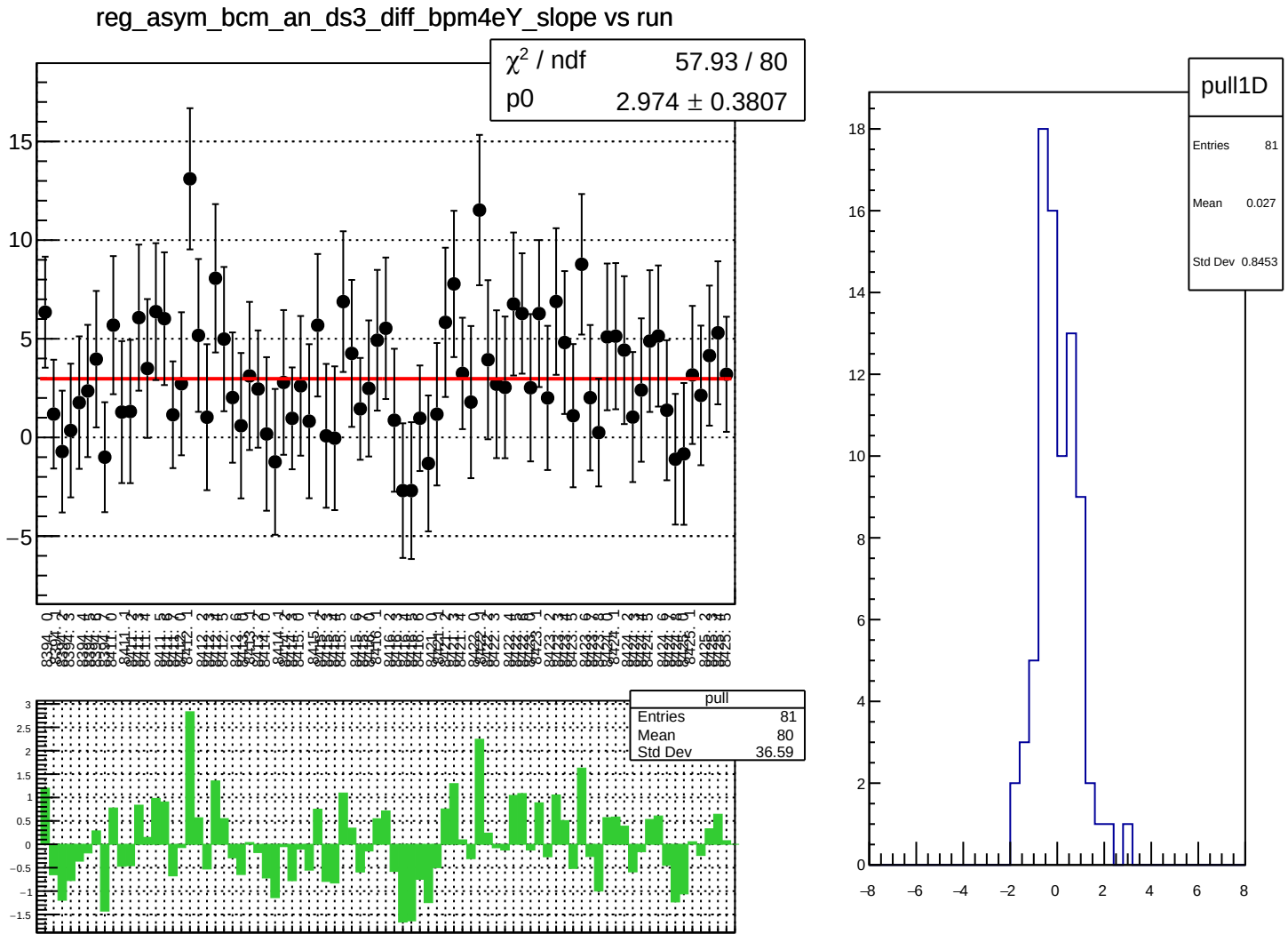

pull1D
Entries 81
Mean 0.04105
Std Dev 1.209

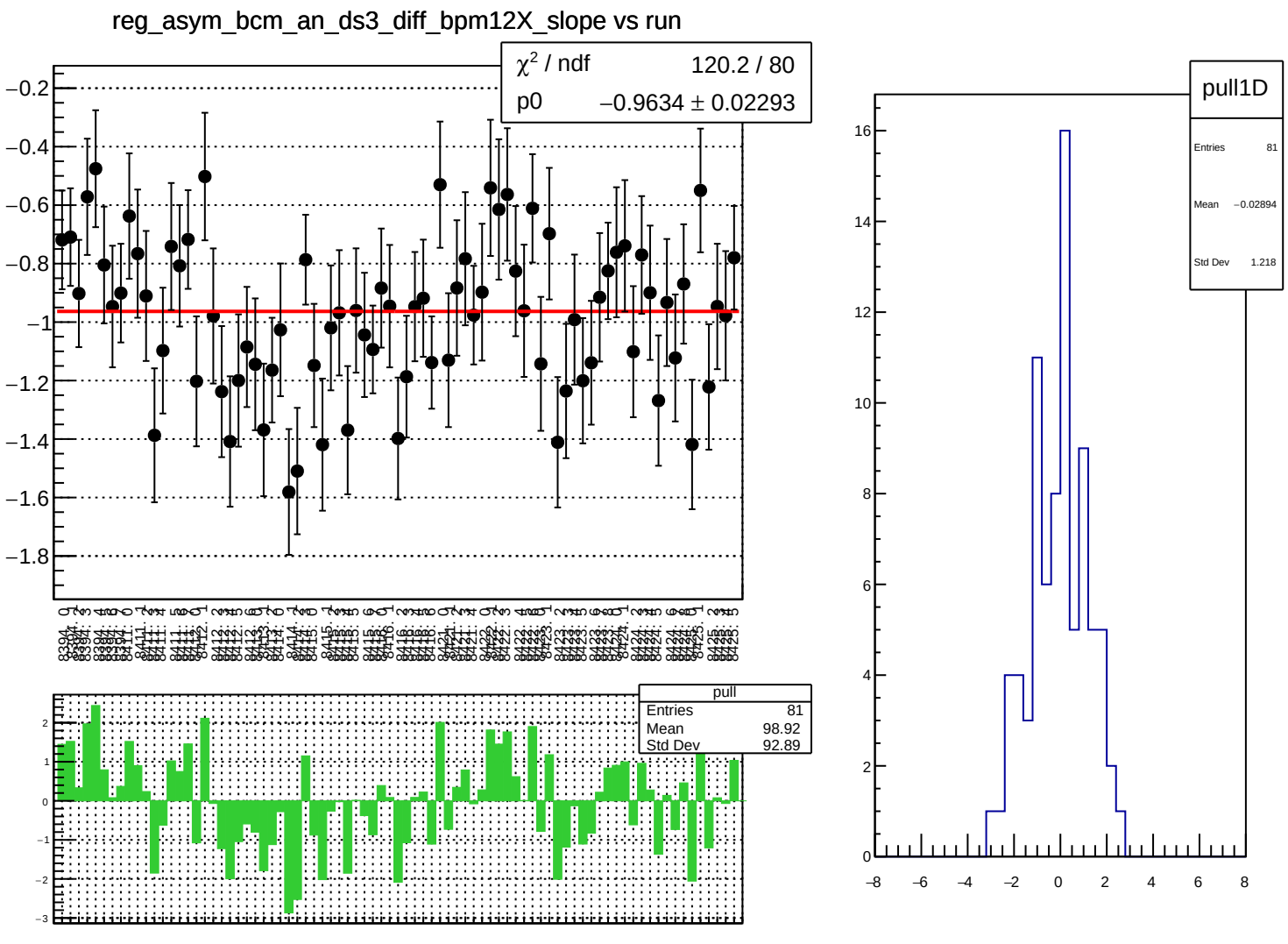

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 59.52 / 80
p0 −2.655 ± 0.3628
pull
Entries 81
Mean 79.28
Std Dev 35.6

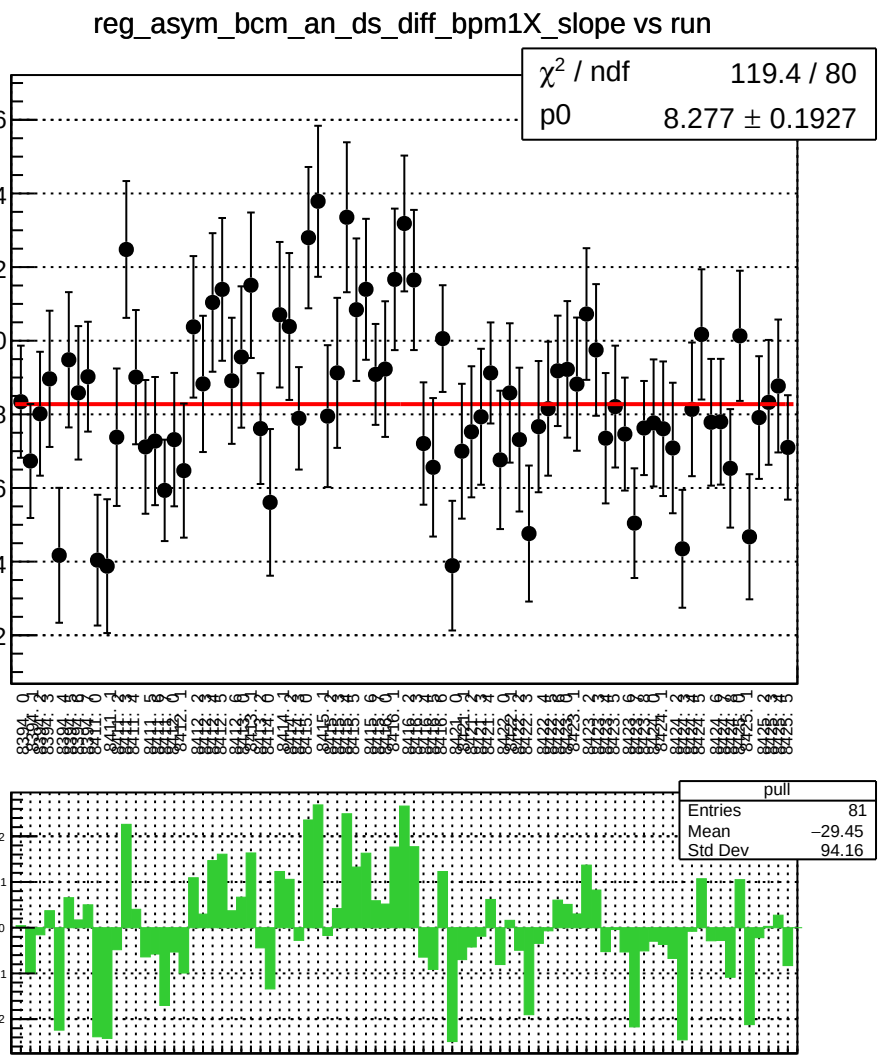

pull1D
Entries 81
Mean −0.02897
Std Dev 0.8567

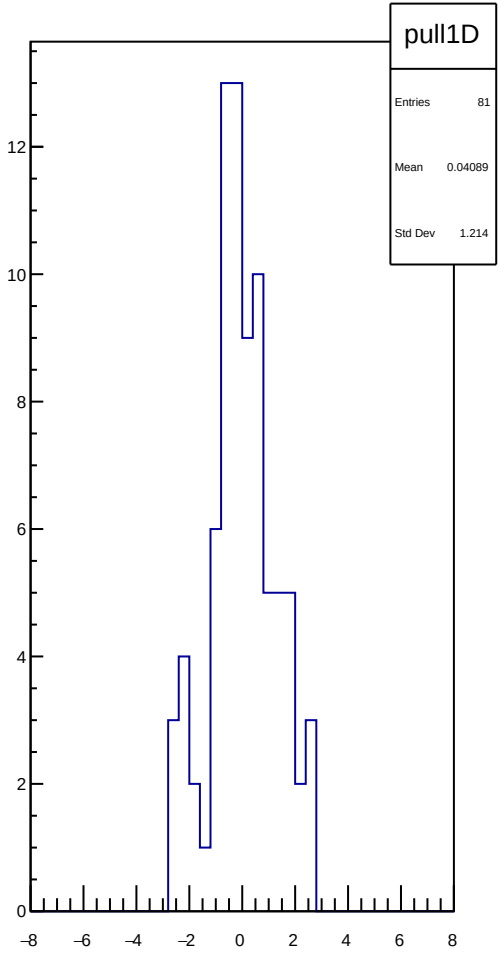

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 122.1 / 80
p0 −9.835 ± 0.2152
pull
Entries 81
Mean −18.23
Std Dev 88.42

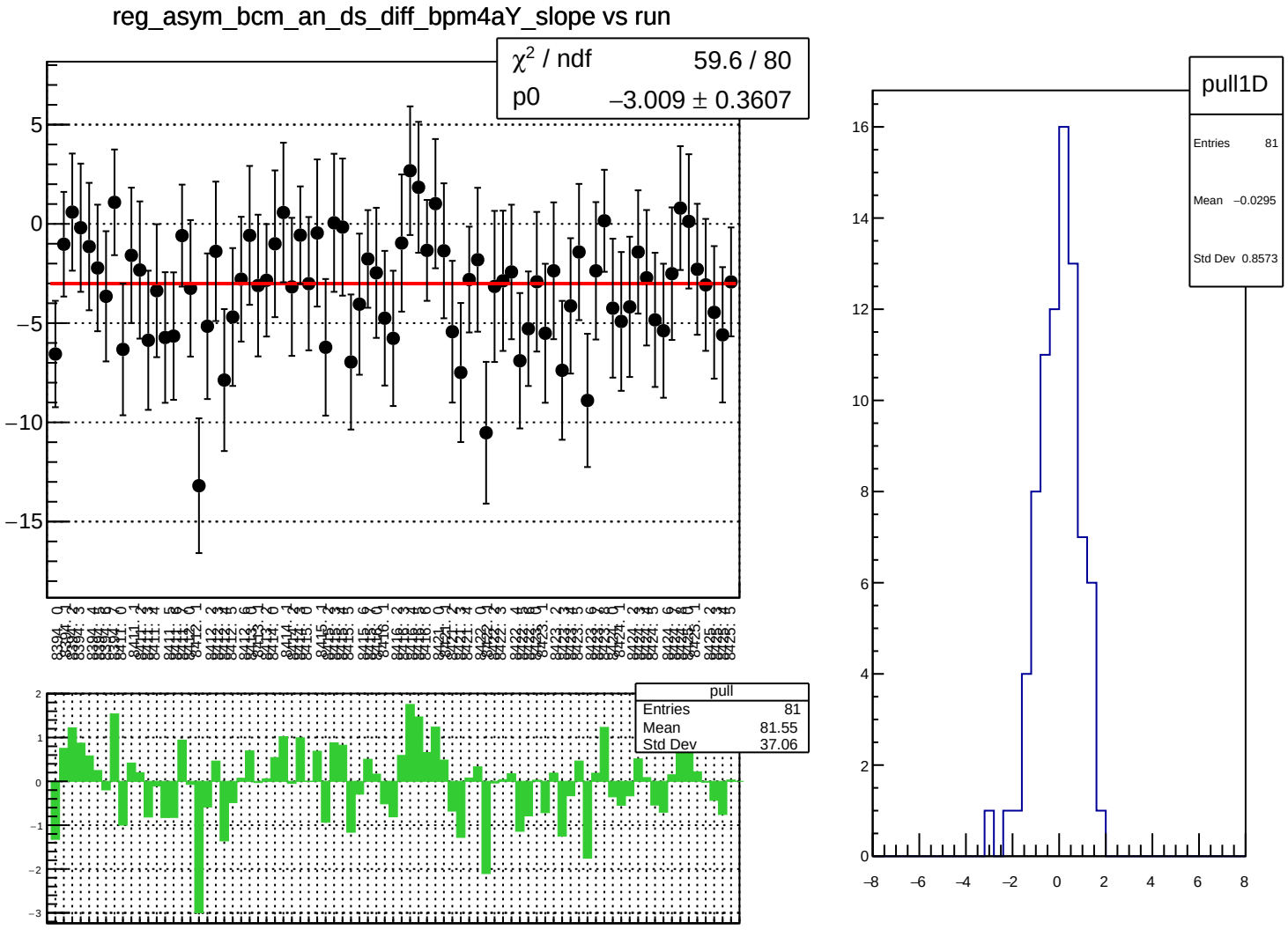

pull1D
Entries 81
Mean −0.03836
Std Dev 1.227

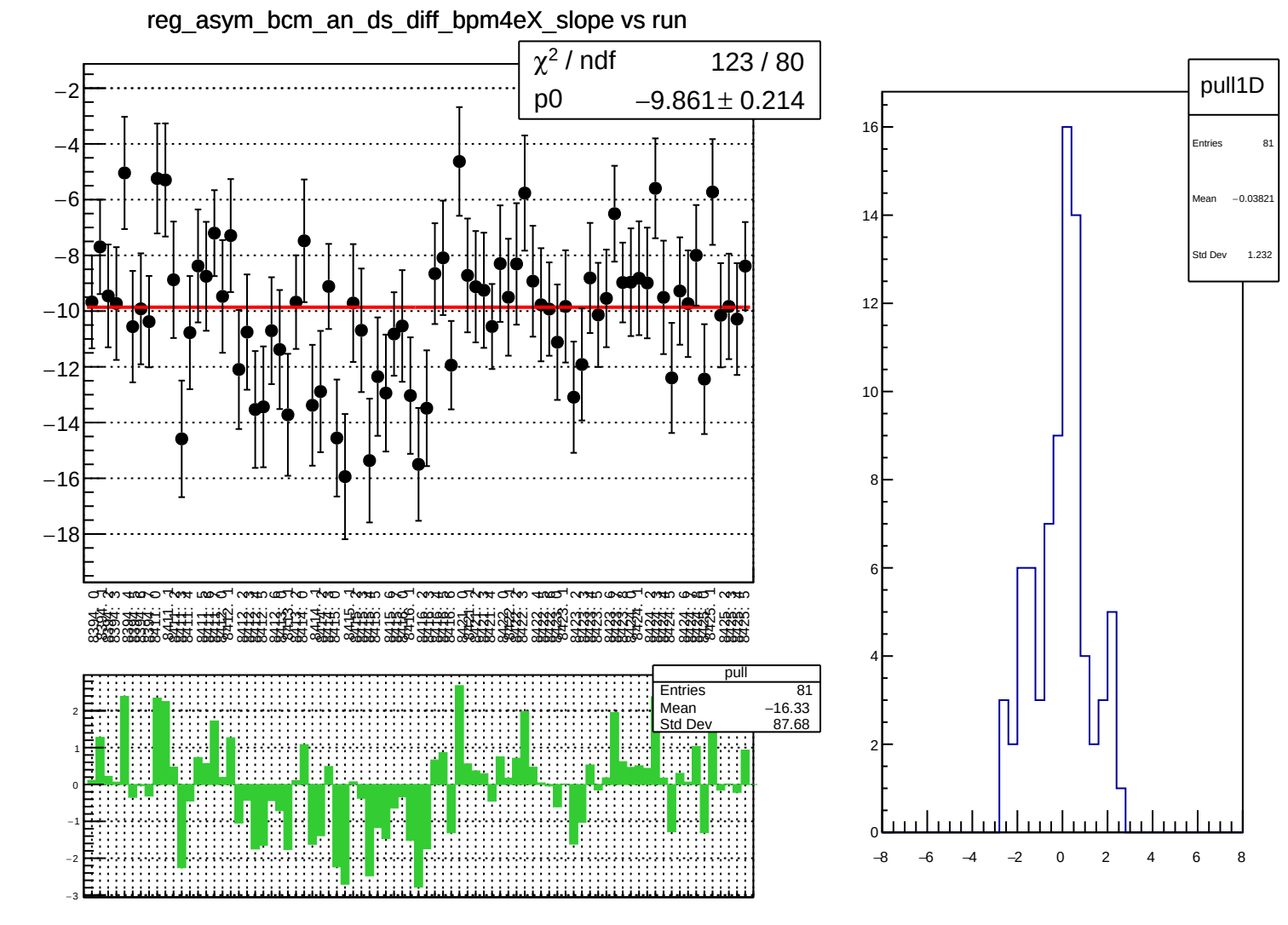

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 57.93 / 80
p0 2.974 ± 0.3807
15
10
5
0
−5
pull
Entries 81
Mean 80
Std Dev 36.59
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 81
Mean 0.027
Std Dev 0.8453
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

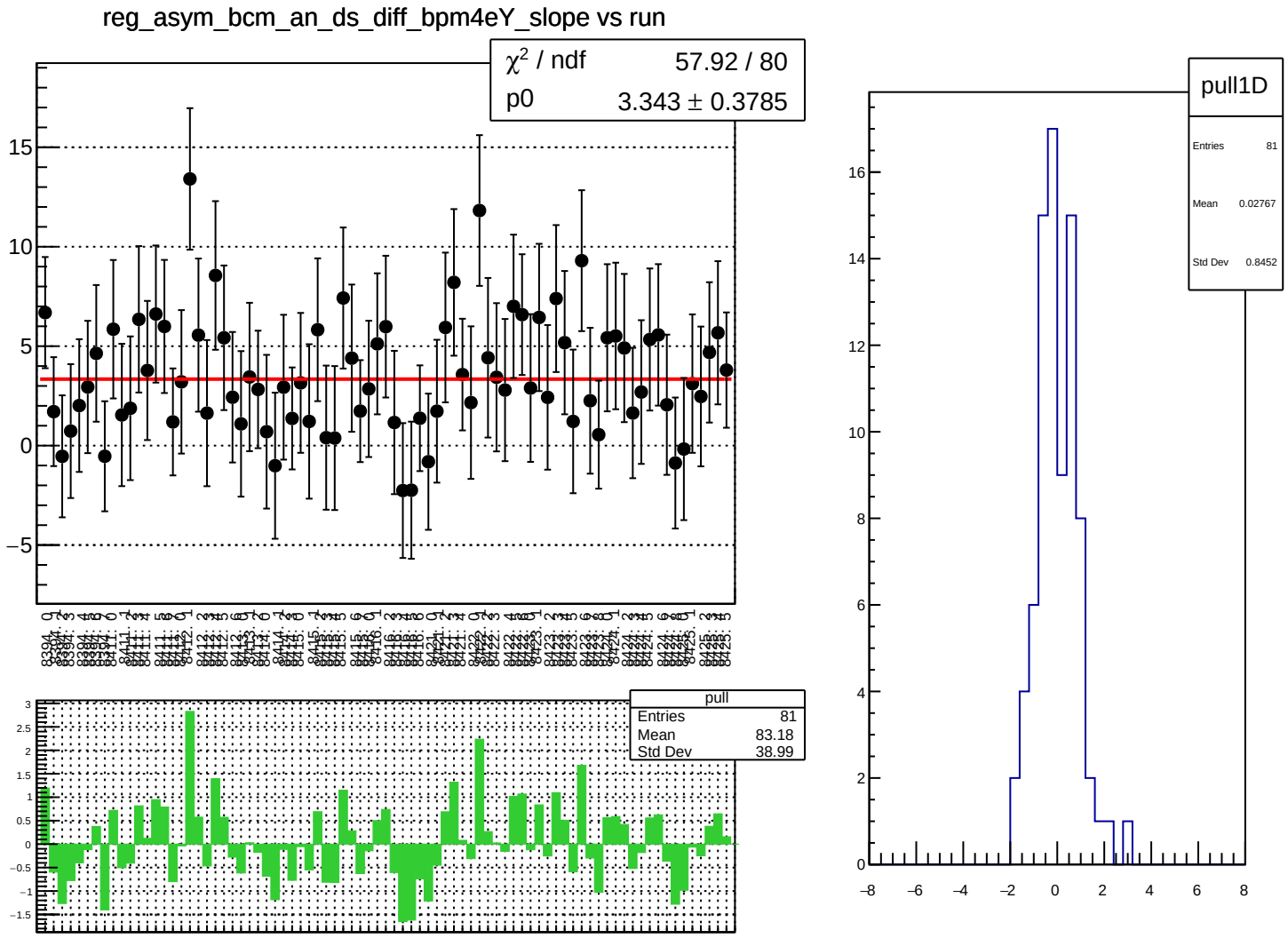

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 120.2 / 80
p0 −0.9634 ± 0.02293
pull
Entries 81
Mean 98.92
Std Dev 92.89
pull1D
Entries 81
Mean −0.02894
Std Dev 1.218

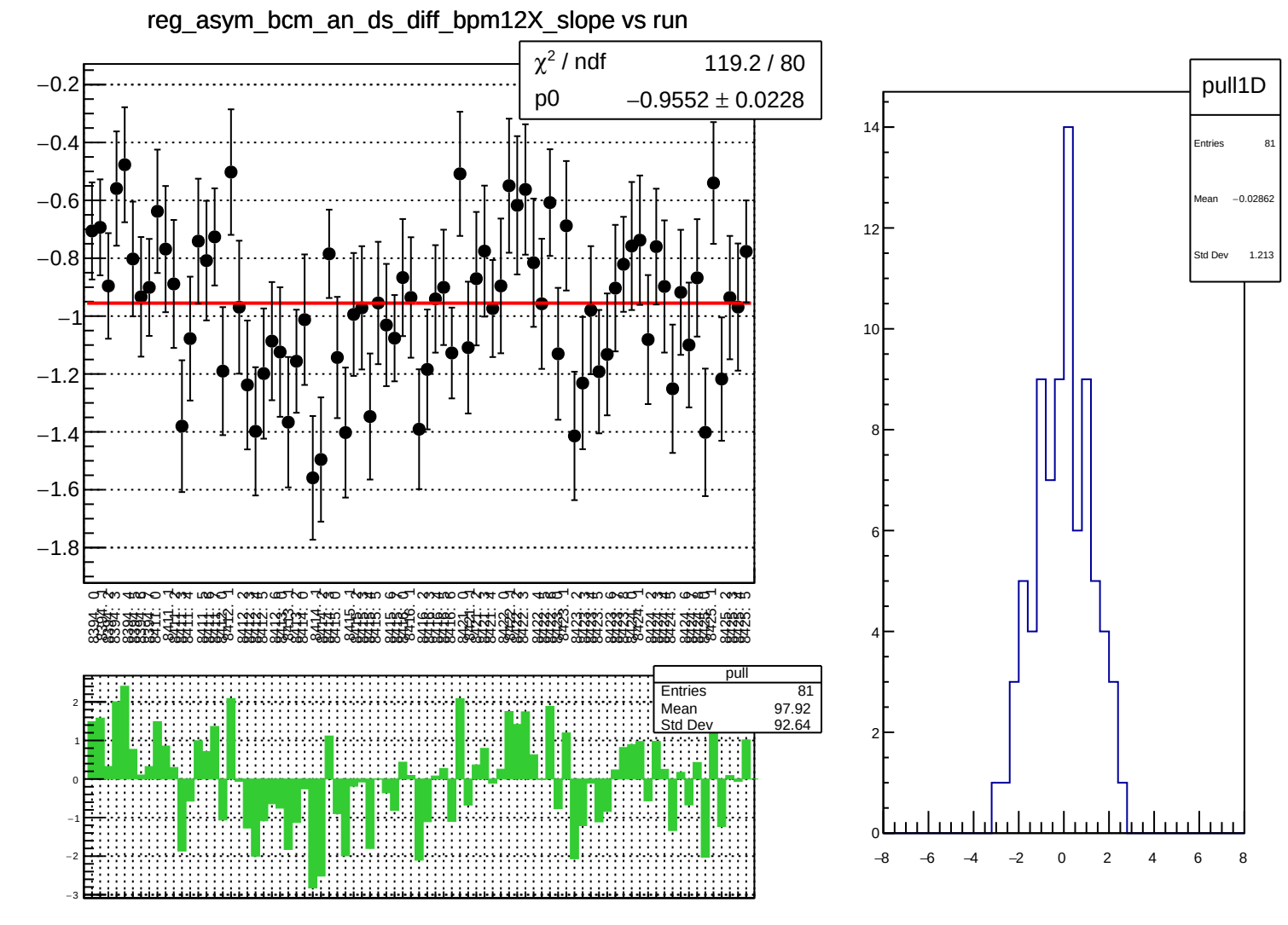

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 119.4 / 80
p0 8.277 ± 0.1927
pull
Entries 81
Mean −29.45
Std Dev 94.16

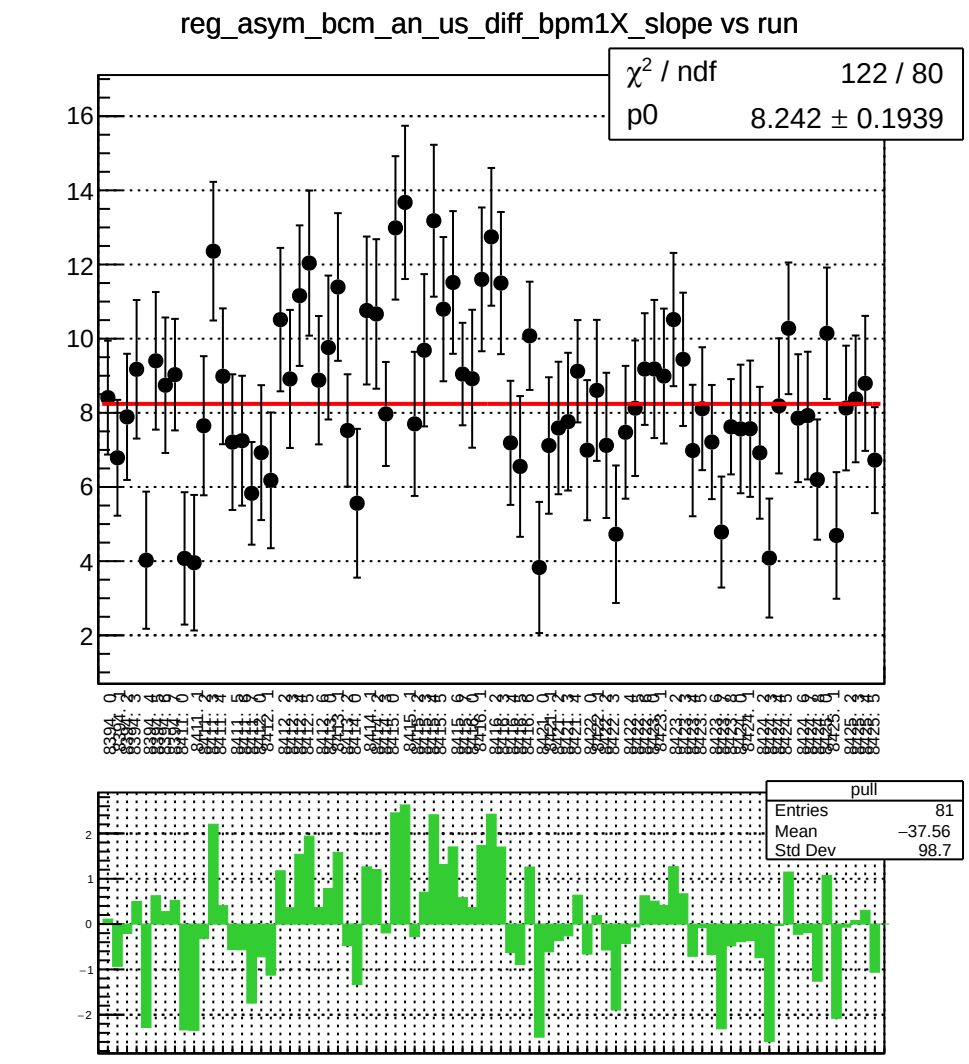

pull1D
Entries 81
Mean 0.04089
Std Dev 1.214

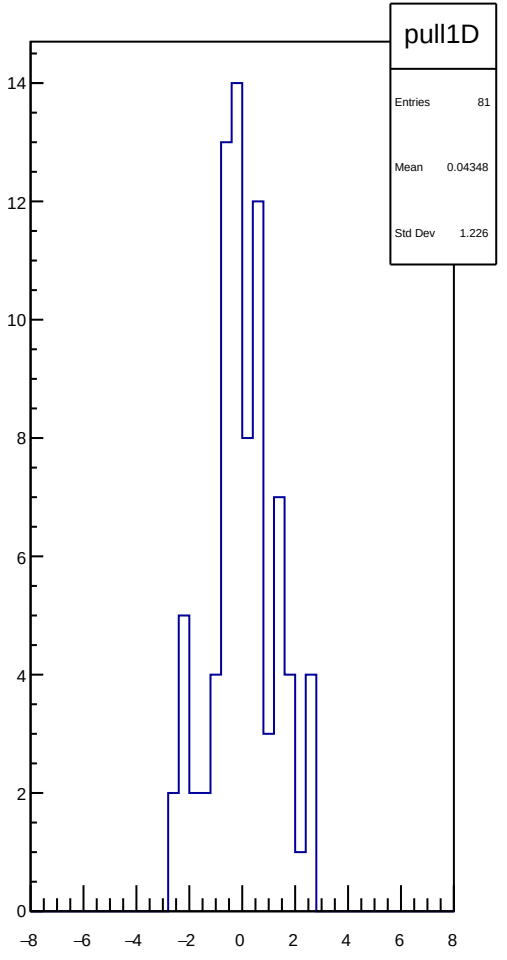

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 59.6 / 80
p0 −3.009 ± 0.3607
pull
Entries 81
Mean 81.55
Std Dev 37.06
pull1D
Entries 81
Mean −0.0295
Std Dev 0.8573

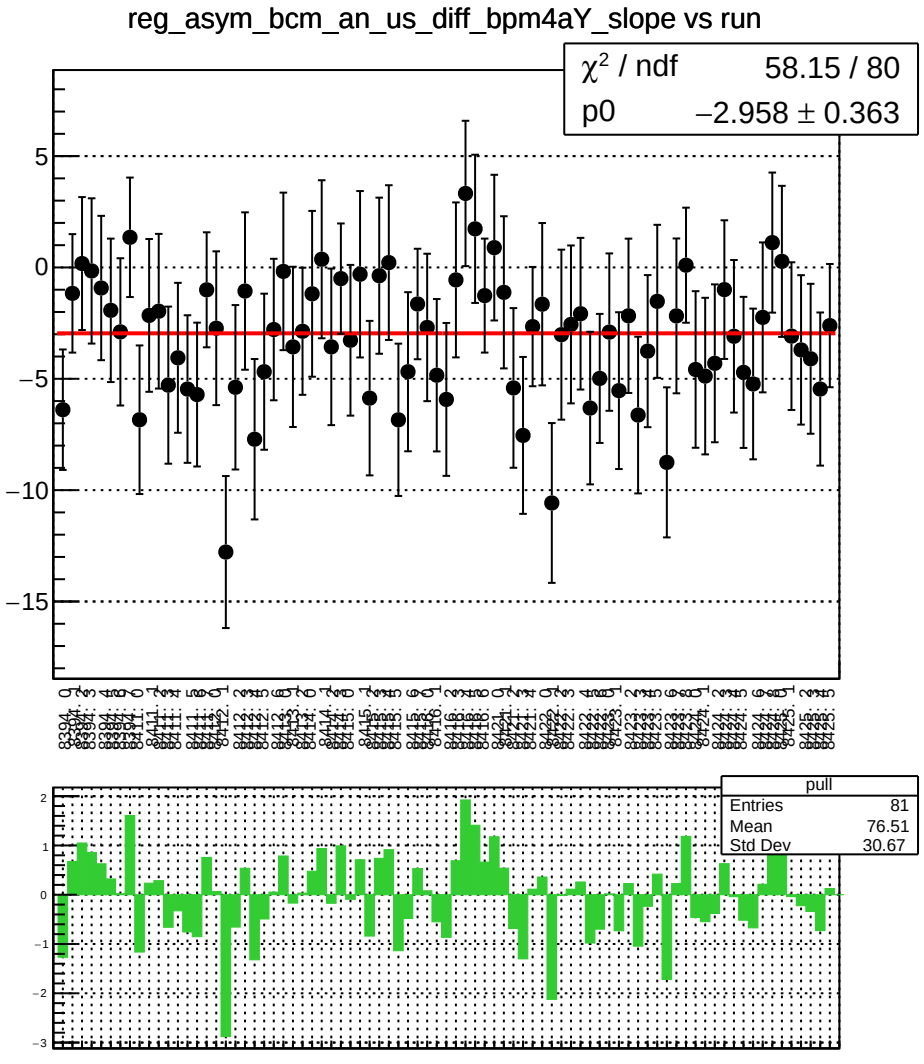

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 123 / 80
p0 −9.861 ± 0.214
pull
Entries 81
Mean −16.33
Std Dev 87.68
pull1D
Entries 81
Mean −0.03821
Std Dev 1.232

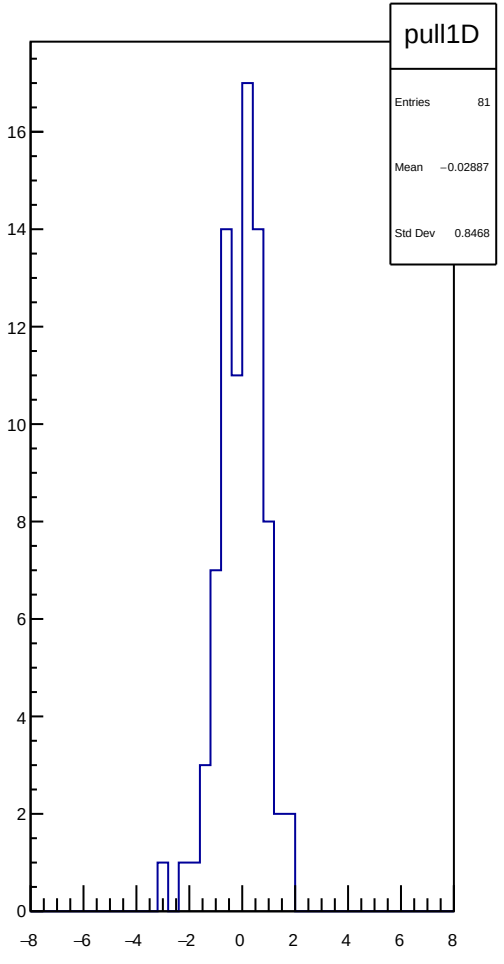

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 57.92 / 80
p0 3.343 ± 0.3785
pull
Entries 81
Mean 83.18
Std Dev 38.99
pull1D
Entries 81
Mean 0.02767
Std Dev 0.8452

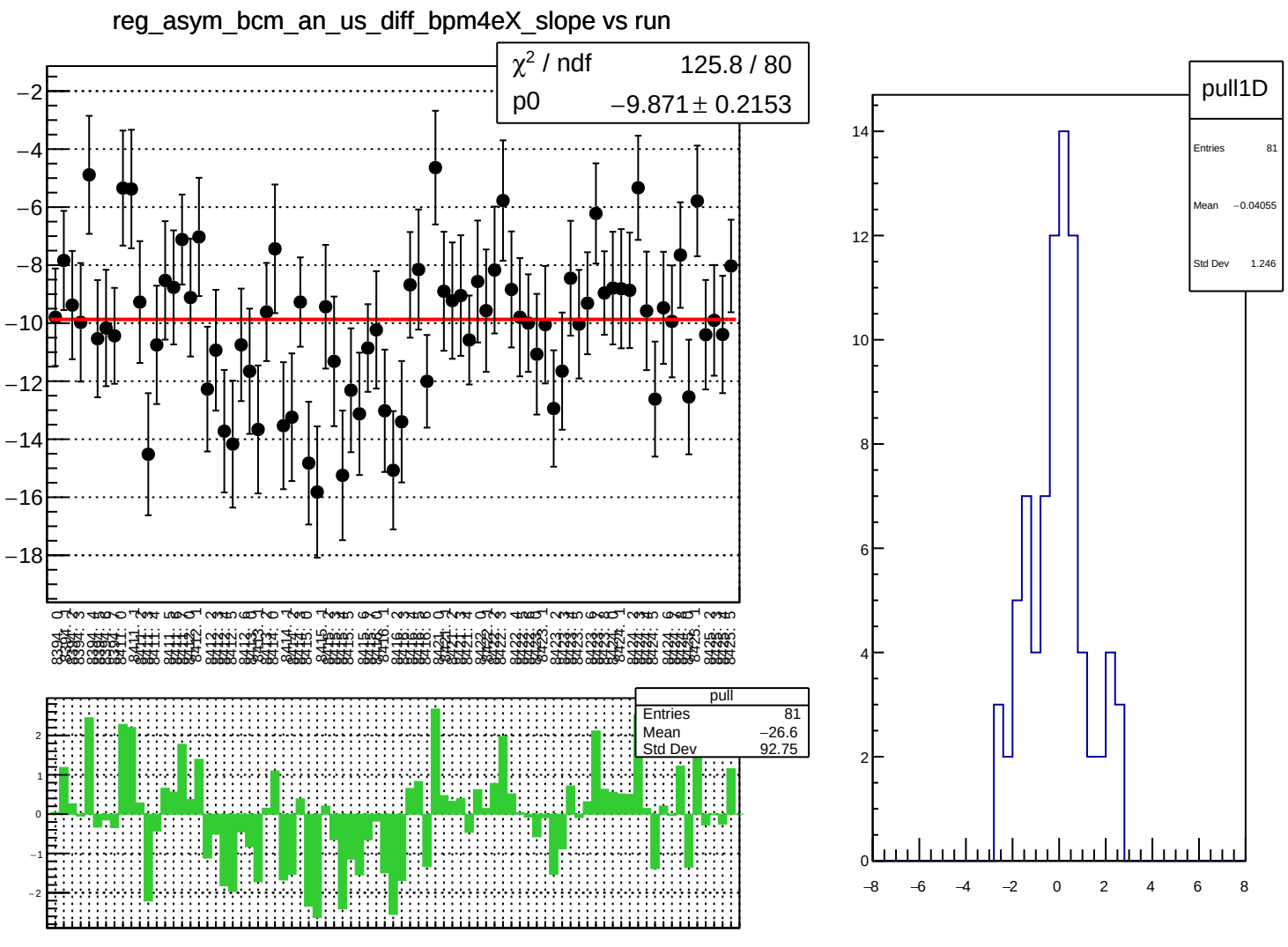

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 119.2 / 80
p0 −0.9552 ± 0.0228
pull
Entries 81
Mean 97.92
Std Dev 92.64
pull1D
Entries 81
Mean −0.02862
Std Dev 1.213

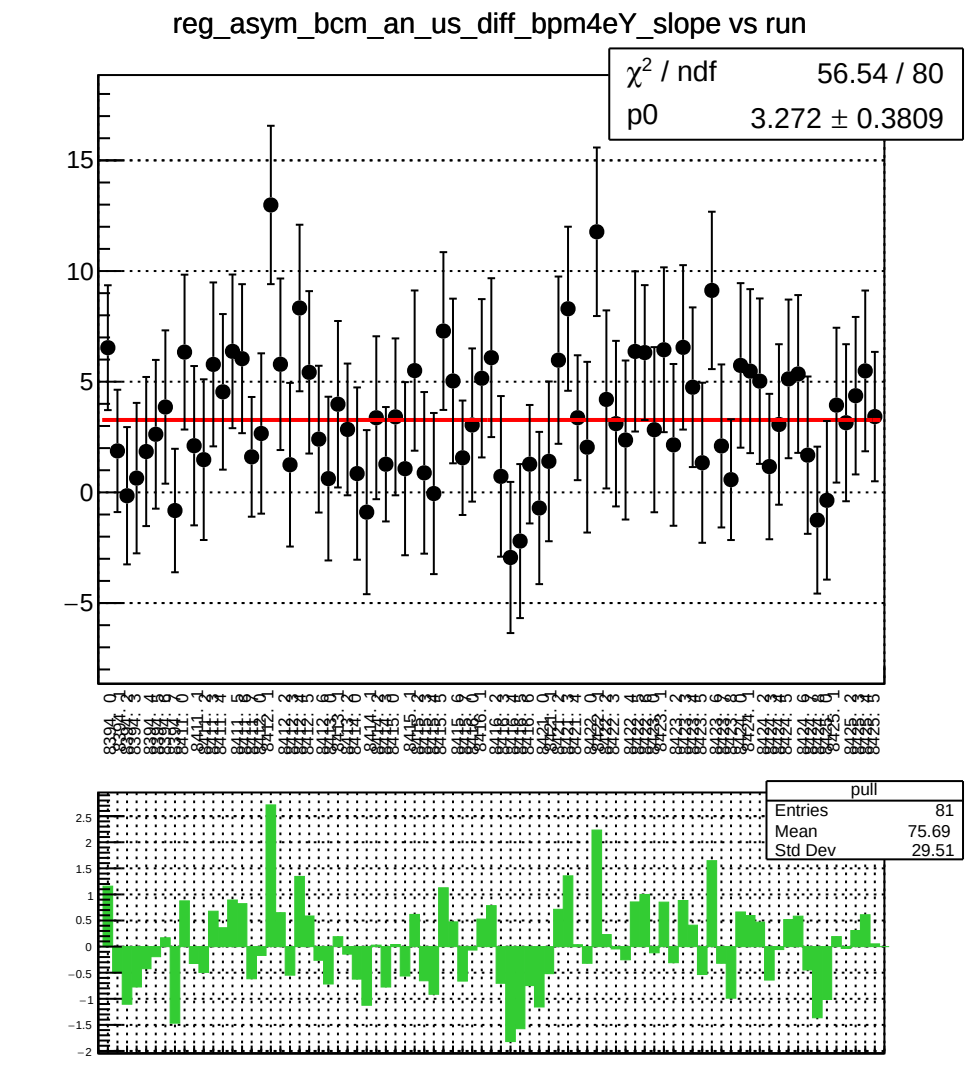

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 122 / 80
p0 8.242 ± 0.1939
pull
Entries 81
Mean −37.56
Std Dev 98.7

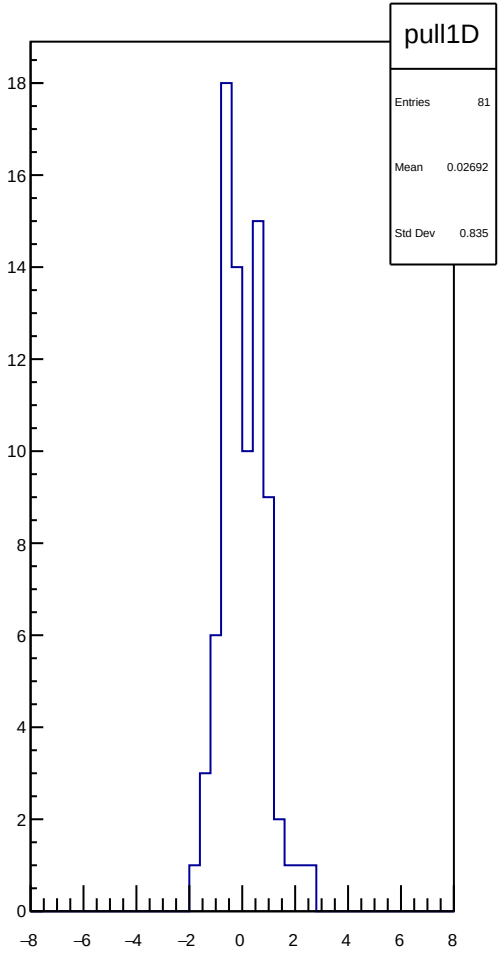

pull1D
Entries 81
Mean 0.04348
Std Dev 1.226

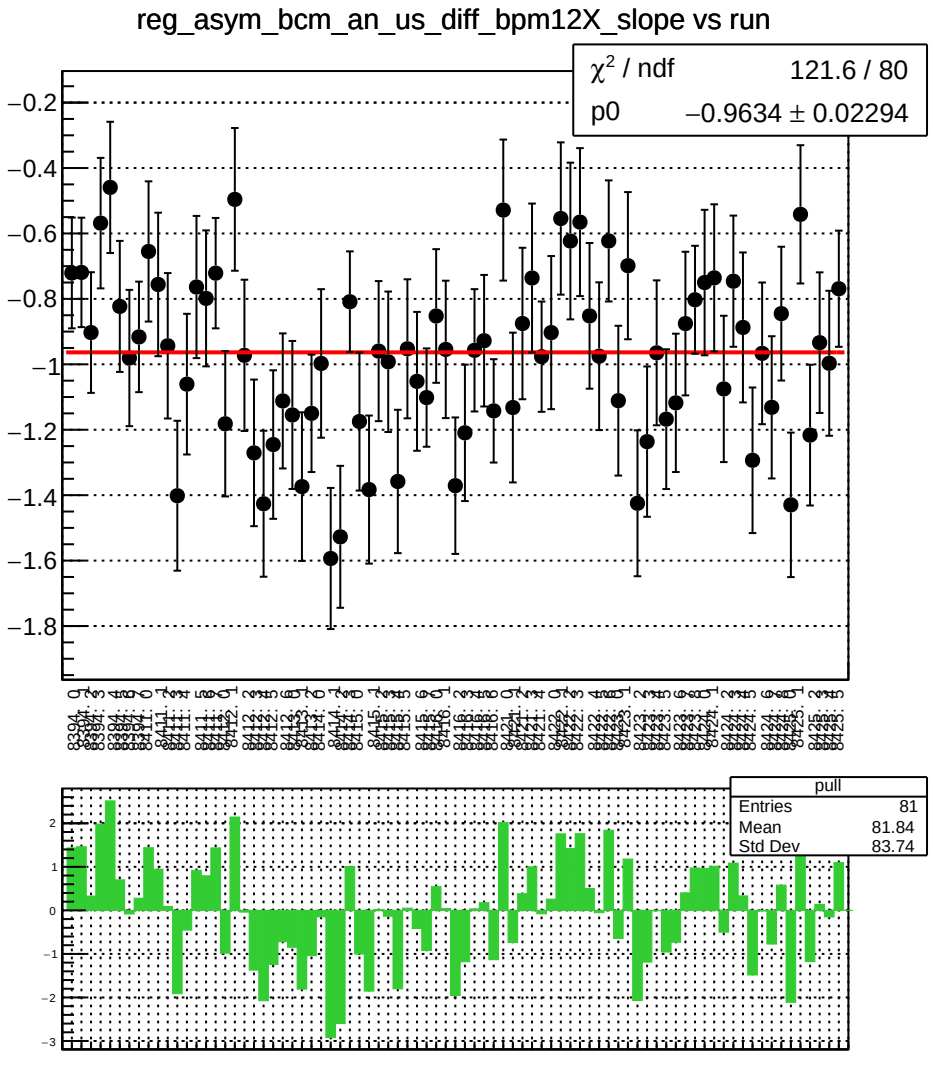

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 58.15 / 80
p0 −2.958 ± 0.363
pull
Entries 81
Mean 76.51
Std Dev 30.67

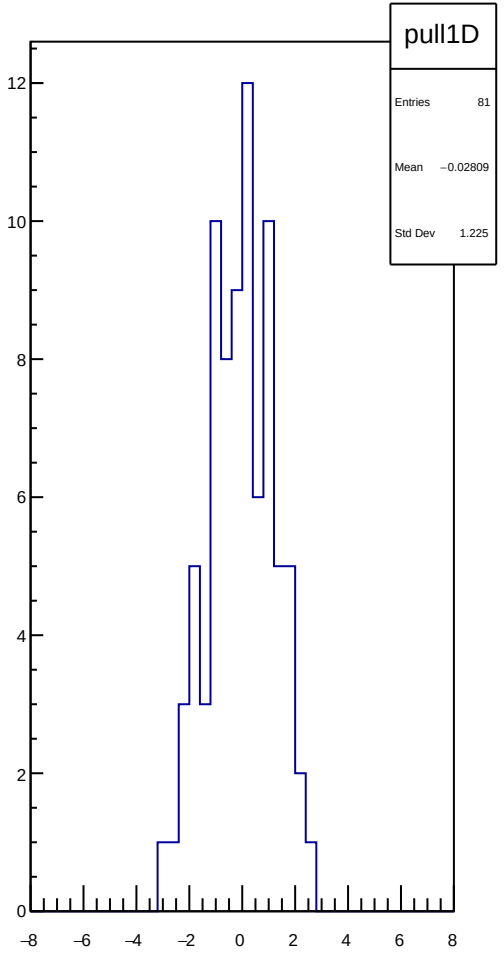

pull1D
Entries 81
Mean −0.02887
Std Dev 0.8468

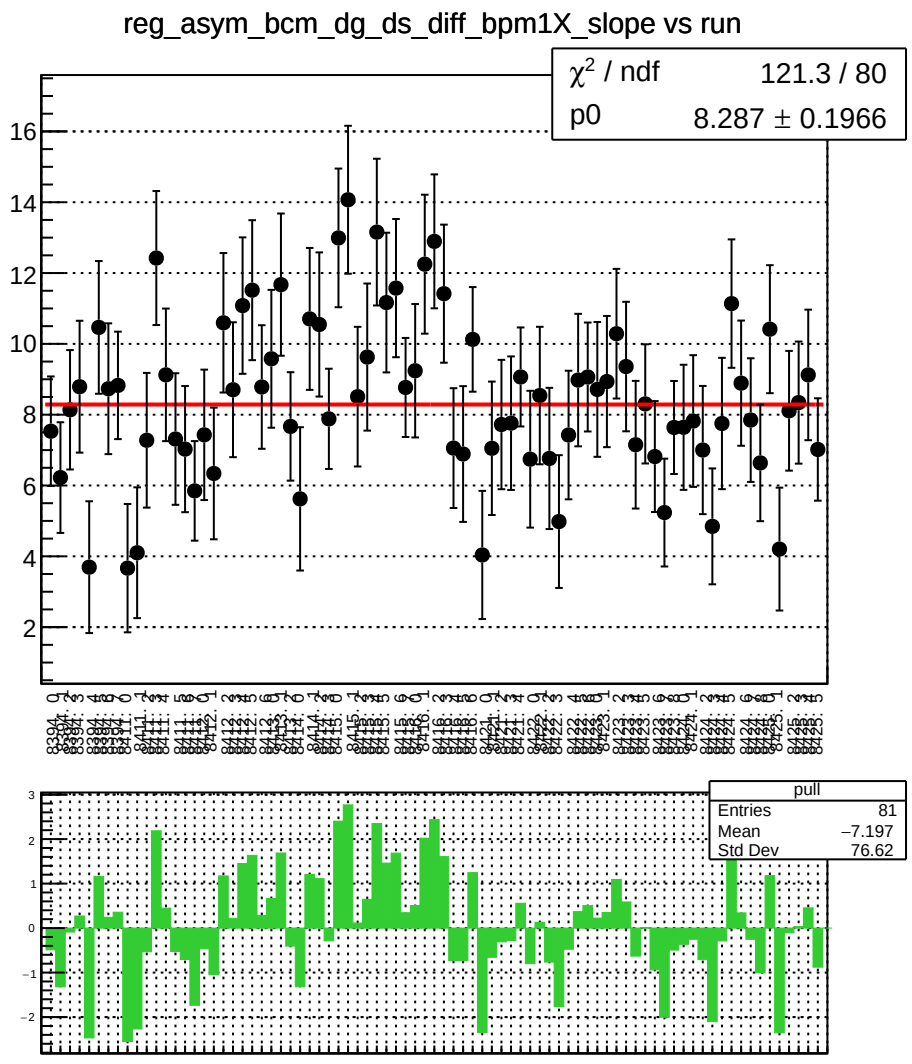

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 125.8 / 80
p0 −9.871 ± 0.2153
pull
Entries 81
Mean −26.6
Std Dev 92.75
pull1D
Entries 81
Mean −0.04055
Std Dev 1.246

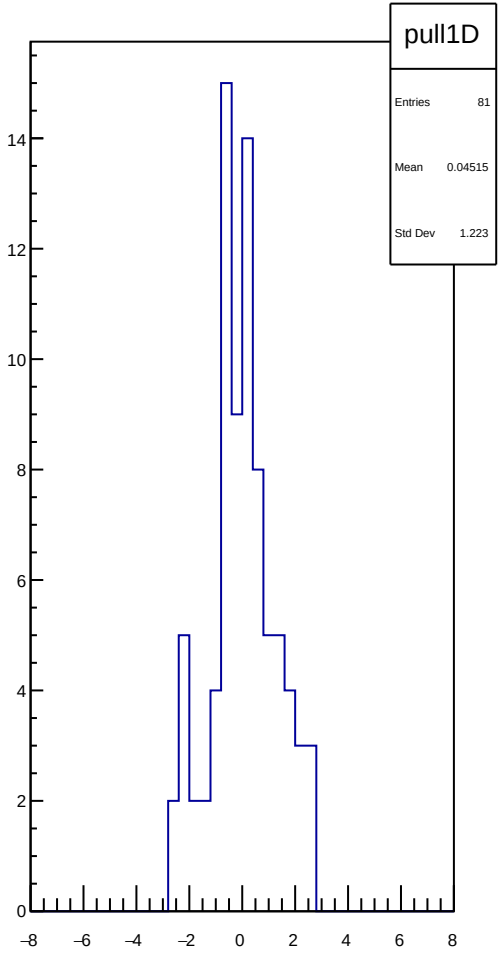

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 56.54 / 80
p0 3.272 ± 0.3809
pull
Entries 81
Mean 75.69
Std Dev 29.51

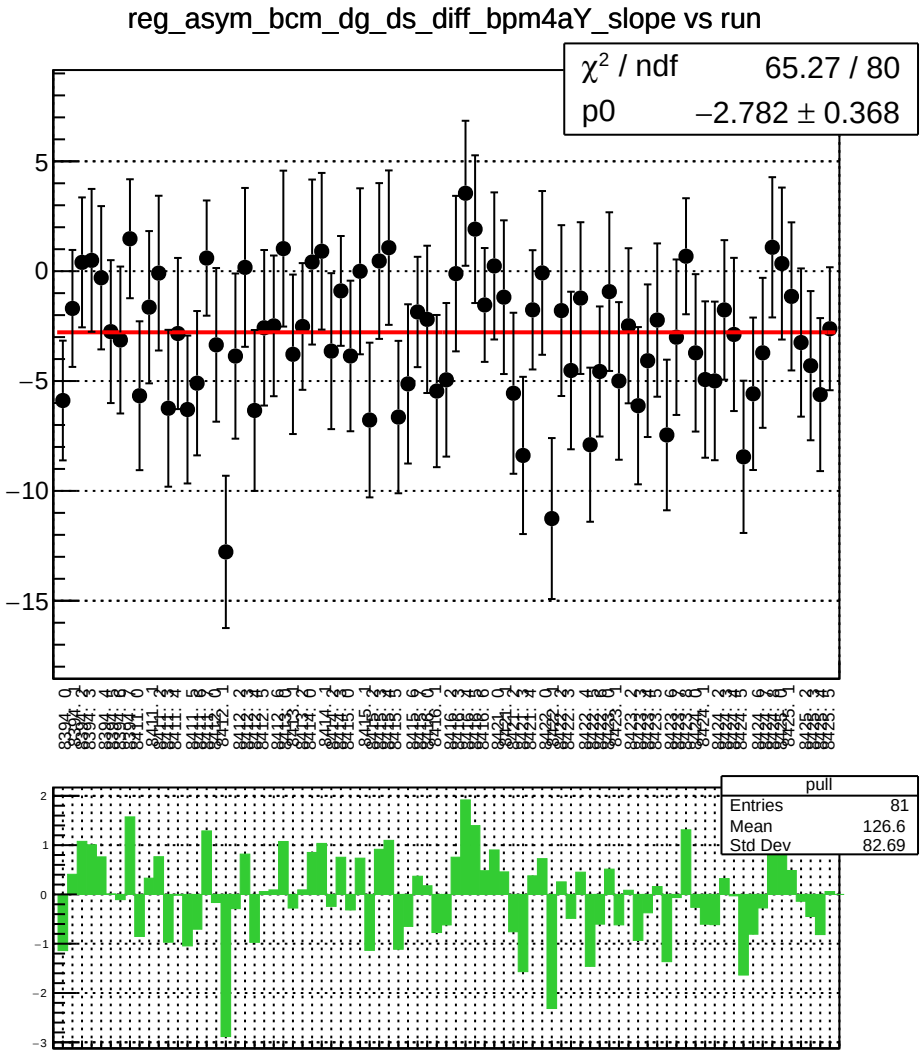

pull1D
Entries 81
Mean 0.02692
Std Dev 0.835

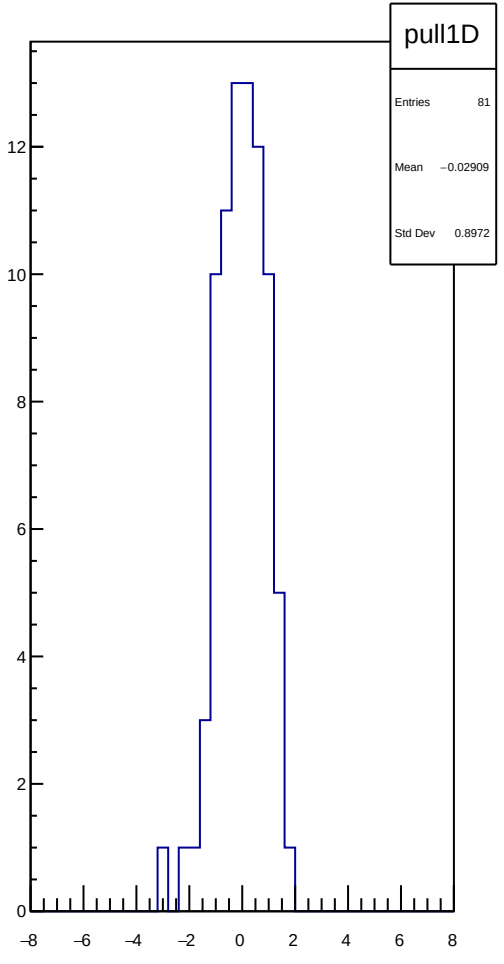

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 121.6 / 80
p0 −0.9634 ± 0.02294
pull
Entries 81
Mean 81.84
Std Dev 83.74

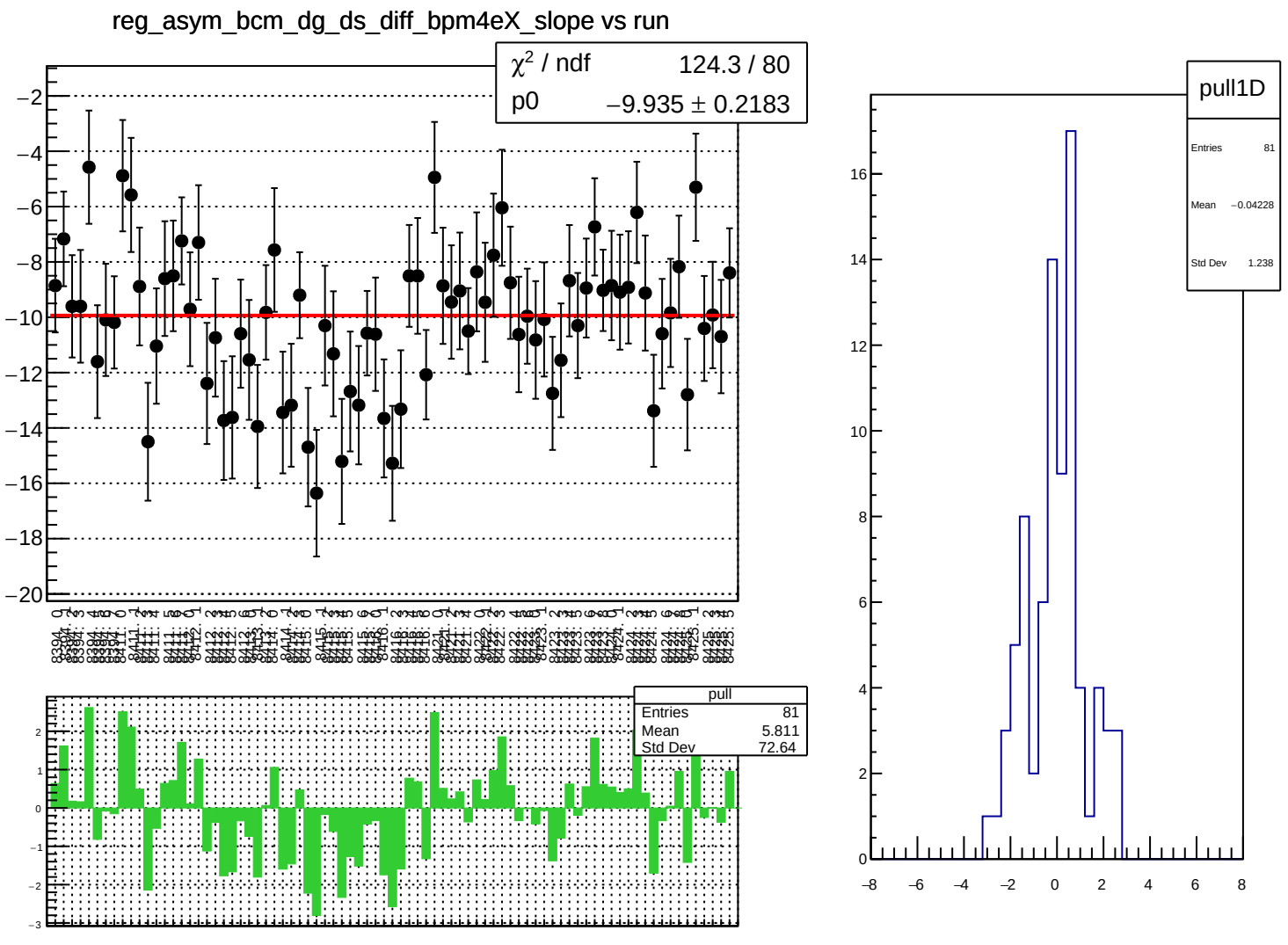

pull1D
Entries 81
Mean −0.02809
Std Dev 1.225

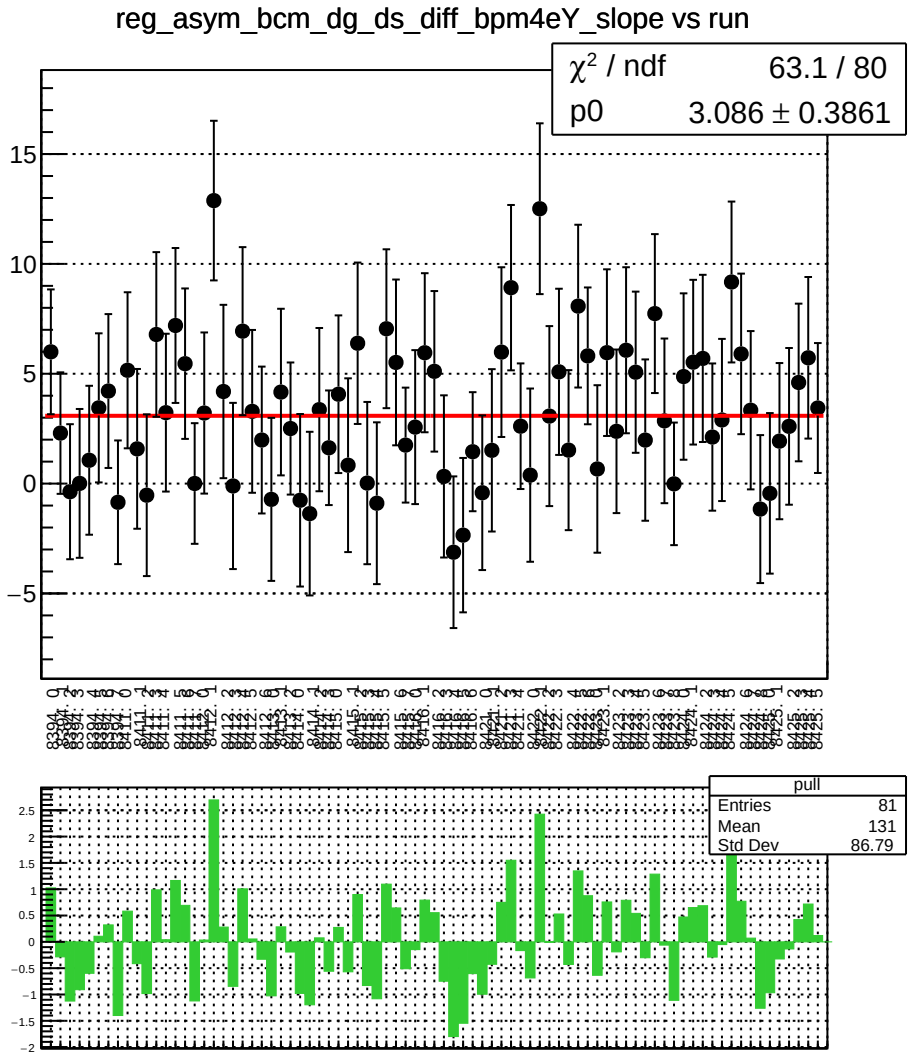

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 121.3 / 80
p0 8.287 ± 0.1966
pull
Entries 81
Mean −7.197
Std Dev 76.62

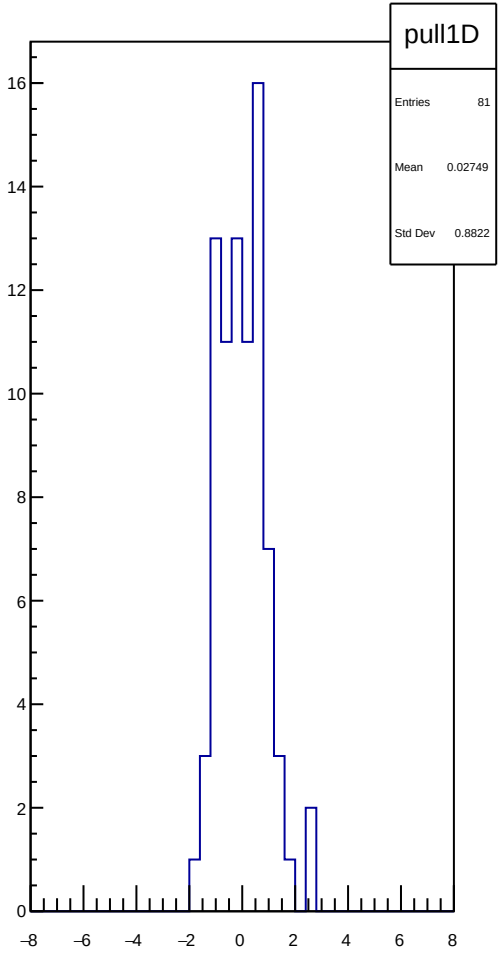

pull1D
Entries 81
Mean 0.04515
Std Dev 1.223

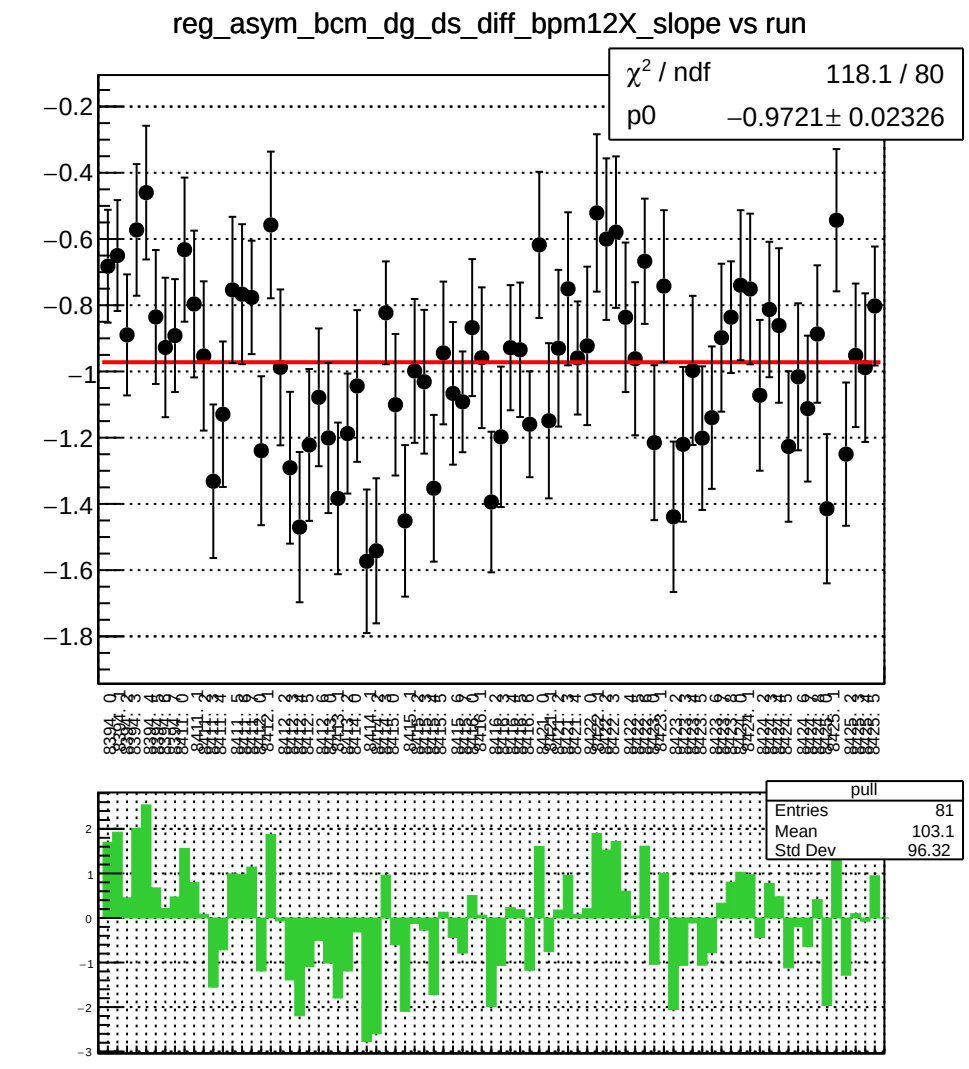

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 65.27 / 80
p0 −2.782 ± 0.368
pull
Entries 81
Mean 126.6
Std Dev 82.69

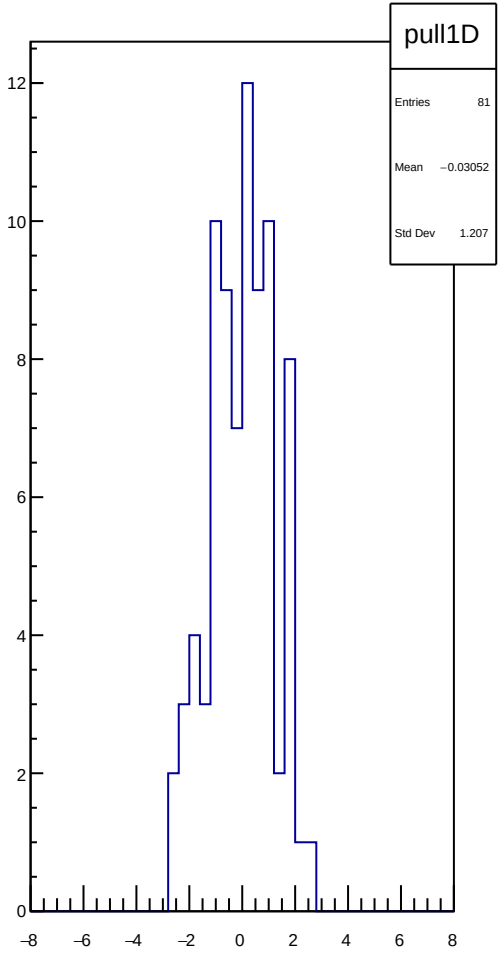

pull1D
Entries 81
Mean −0.02909
Std Dev 0.8972

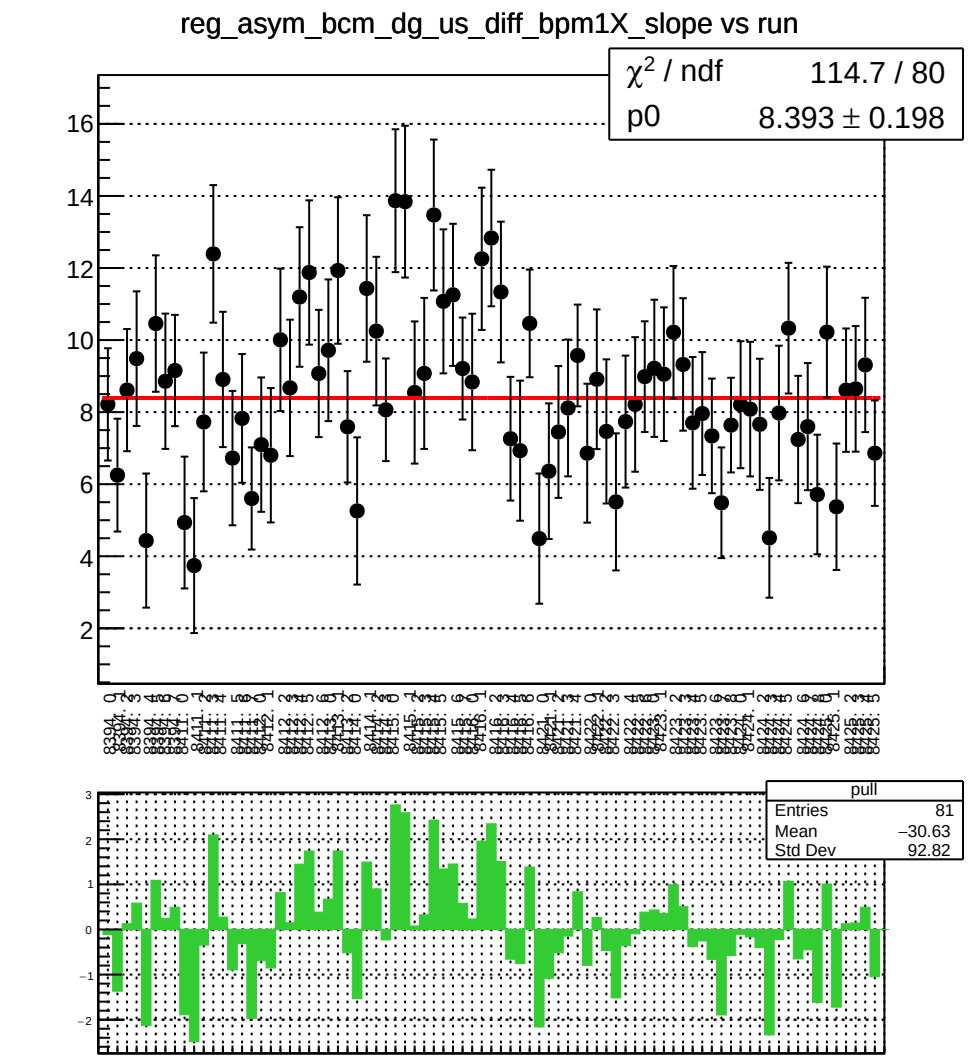

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 124.3 / 80
p0 −9.935 ± 0.2183
pull
Entries 81
Mean 5.811
Std Dev 72.64
pull1D
Entries 81
Mean −0.04228
Std Dev 1.238

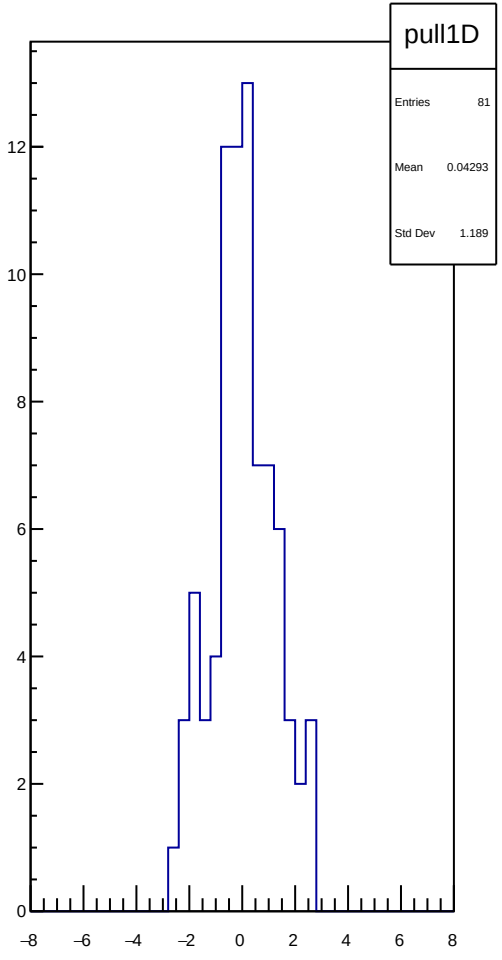

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 63.1 / 80
p0 3.086 ± 0.3861
pull
Entries 81
Mean 131
Std Dev 86.79

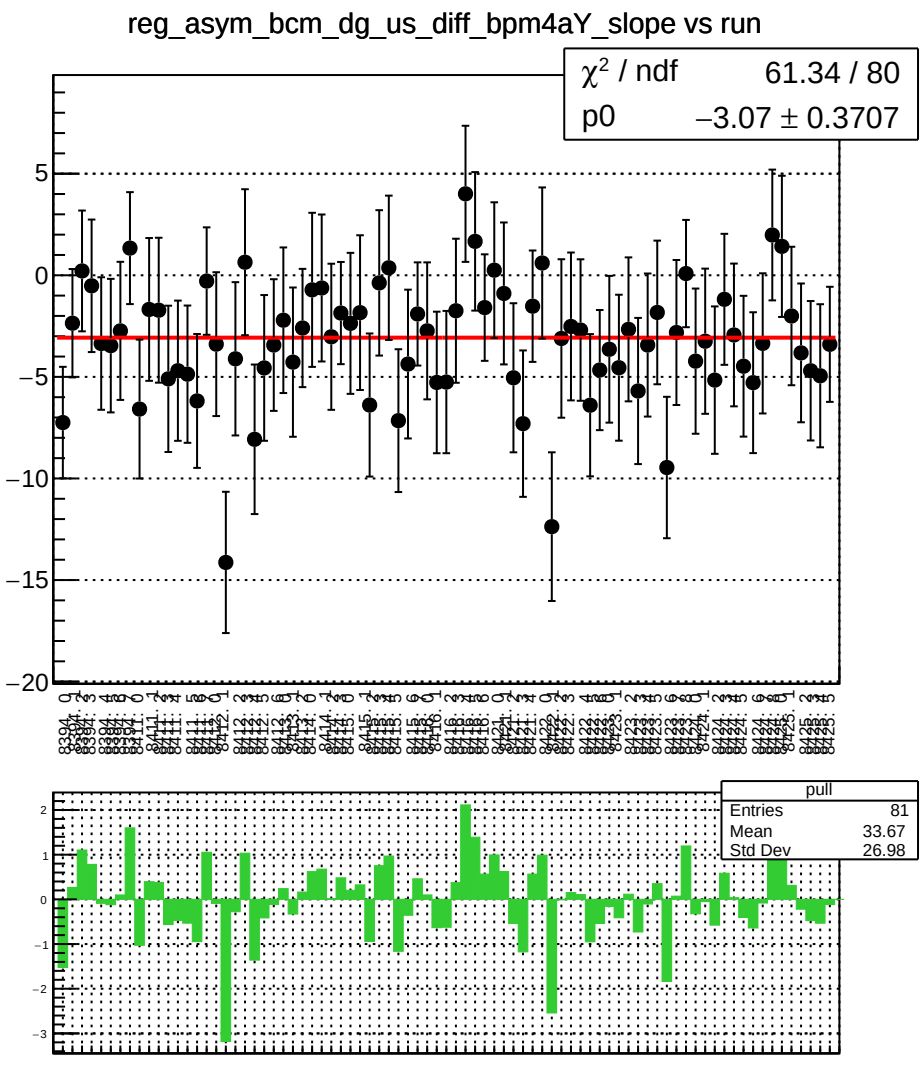

pull1D
Entries 81
Mean 0.02749
Std Dev 0.8822

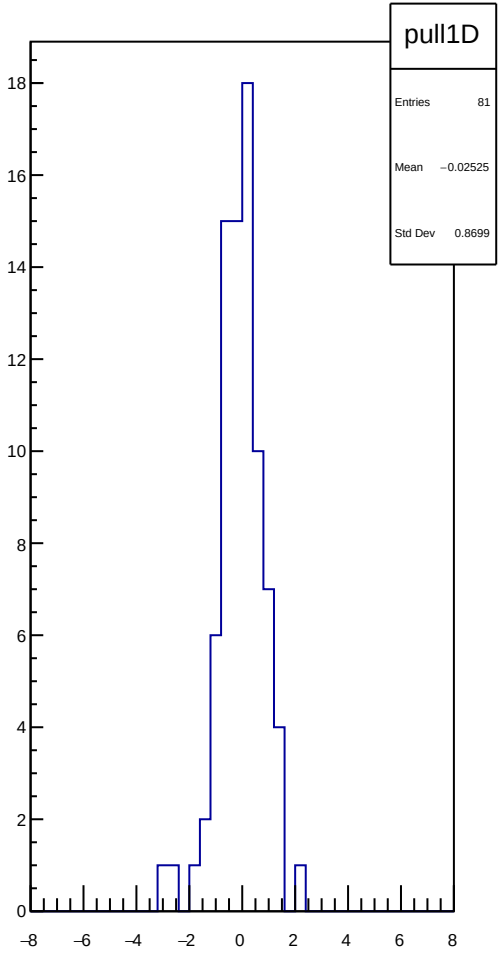

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 118.1 / 80
p0 −0.9721± 0.02326
pull
Entries 81
Mean 103.1
Std Dev 96.32

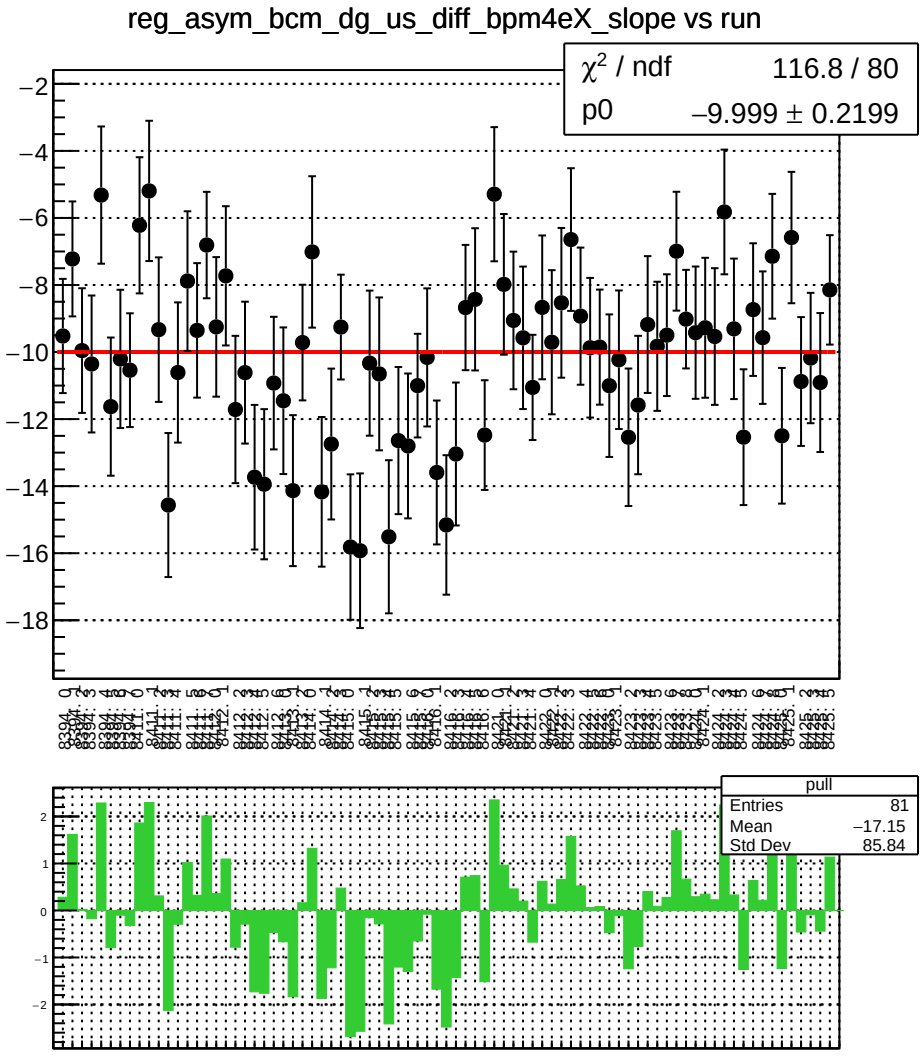

pull1D
Entries 81
Mean −0.03052
Std Dev 1.207

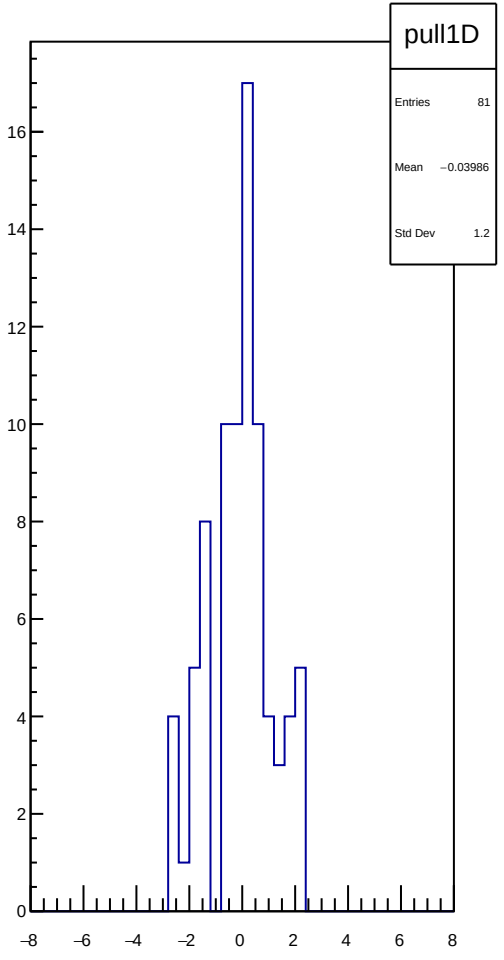

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 114.7 / 80
p0 8.393 ± 0.198
pull
Entries 81
Mean −30.63
Std Dev 92.82

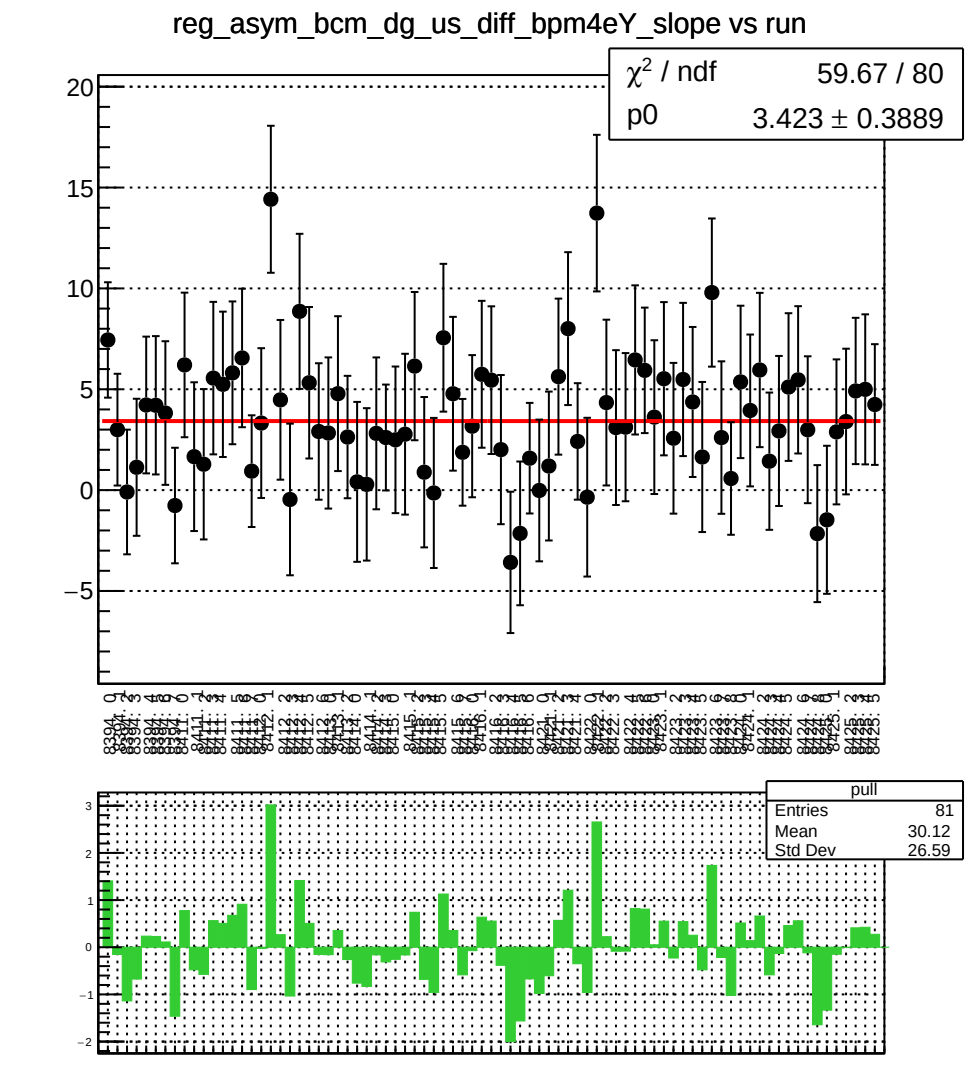

pull1D
Entries 81
Mean 0.04293
Std Dev 1.189

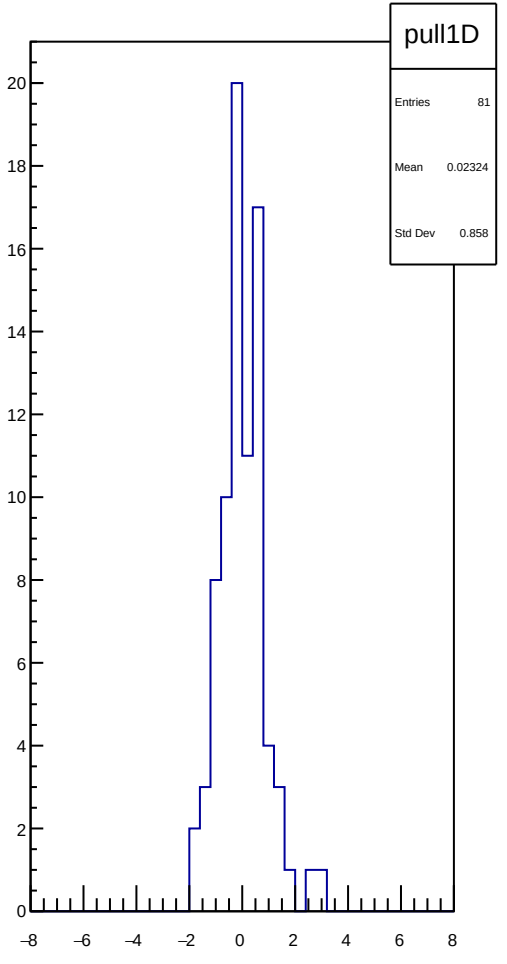

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 61.34 / 80
p0 −3.07 ± 0.3707
pull
Entries 81
Mean 33.67
Std Dev 26.98

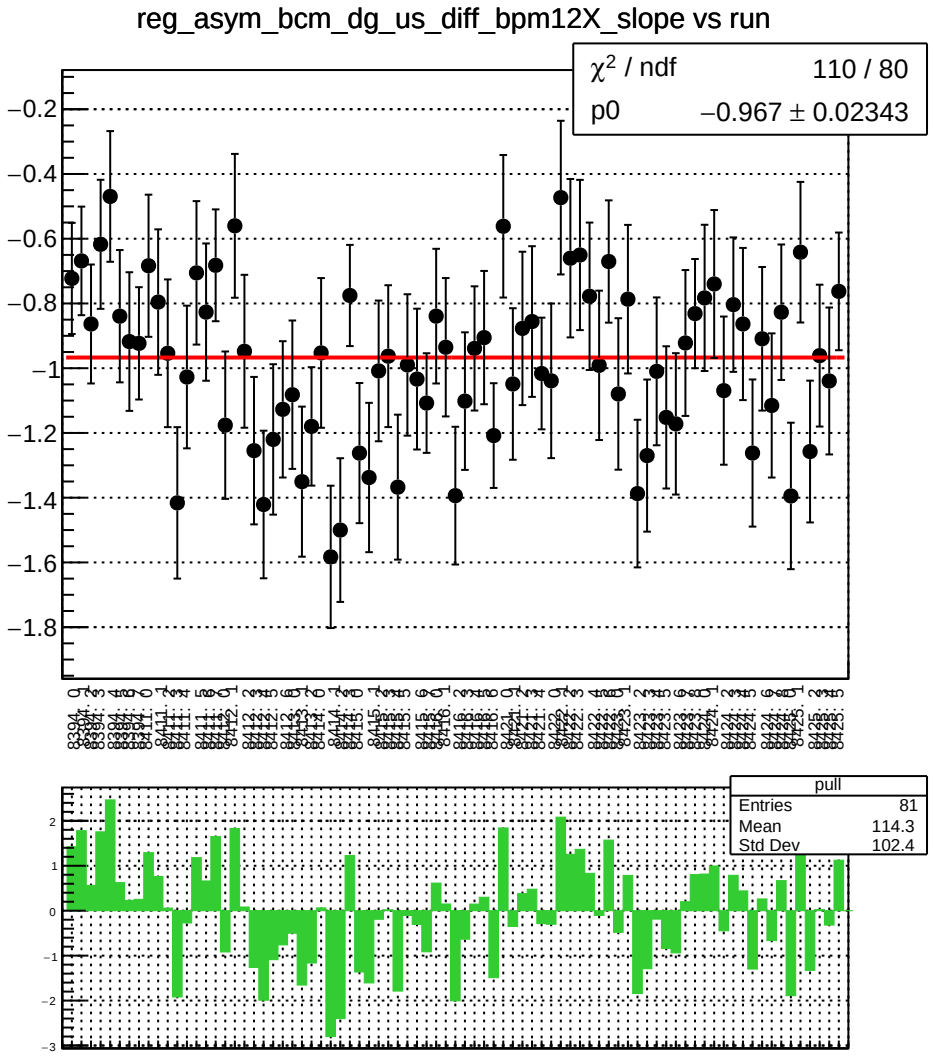

pull1D
Entries 81
Mean −0.02525
Std Dev 0.8699

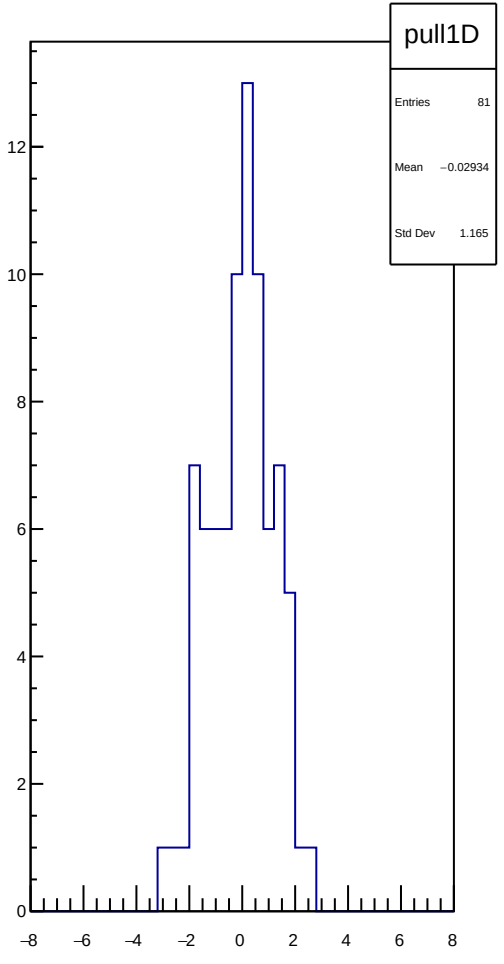

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 116.8 / 80
p0 −9.999 ± 0.2199
pull
Entries 81
Mean −17.15
Std Dev 85.84

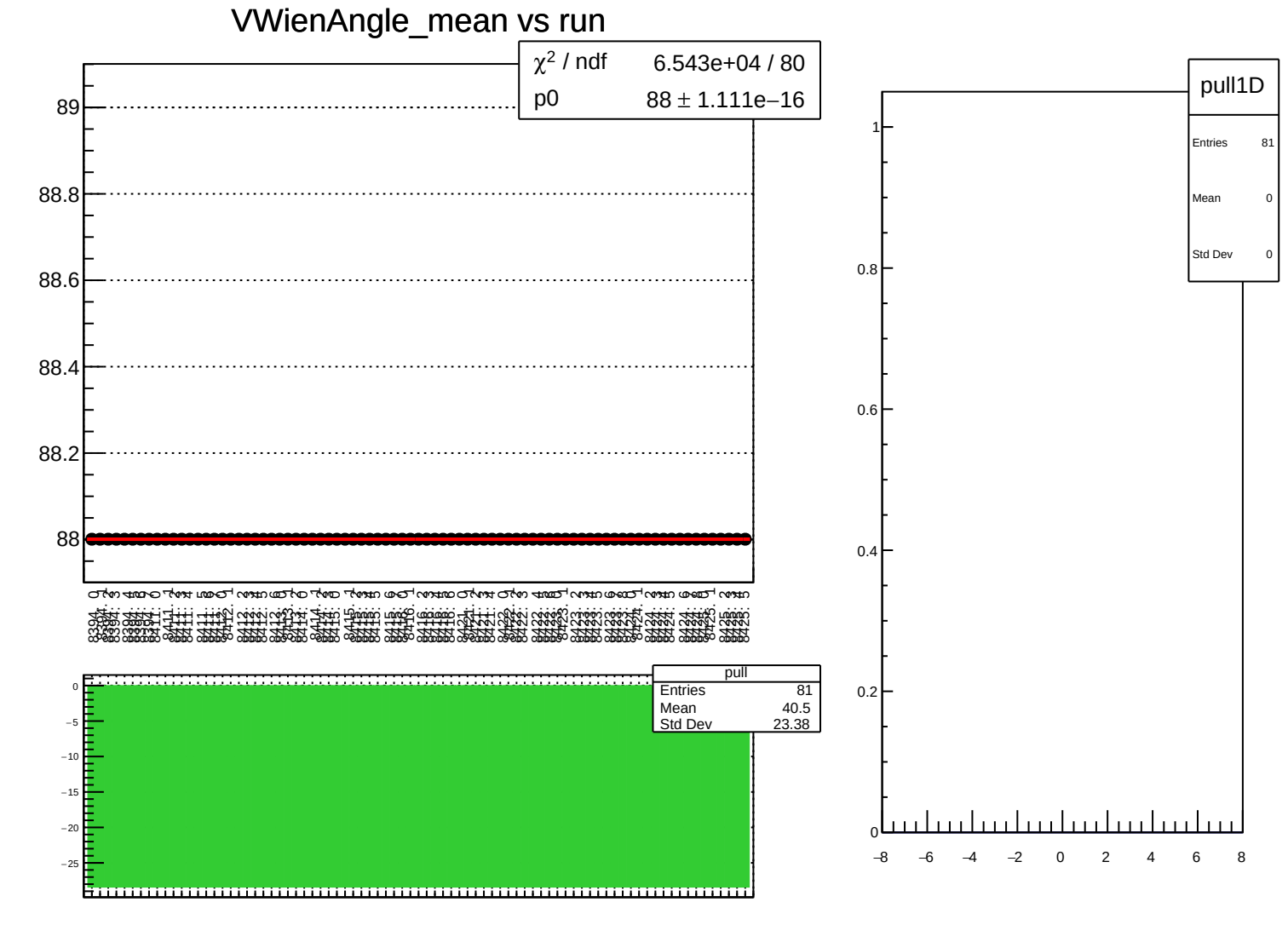

pull1D
Entries 81
Mean −0.03986
Std Dev 1.2

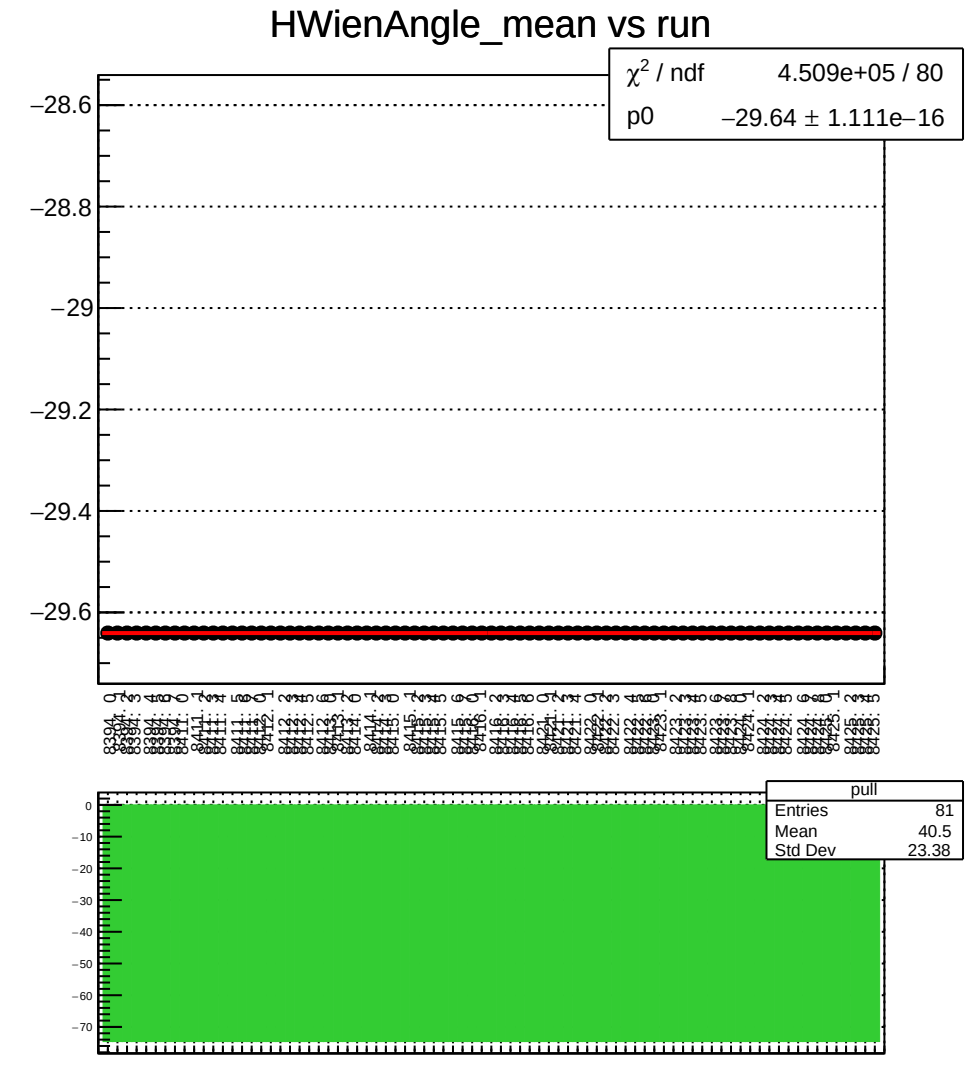

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 59.67 / 80
p0 3.423 ± 0.3889
pull
Entries 81
Mean 30.12
Std Dev 26.59

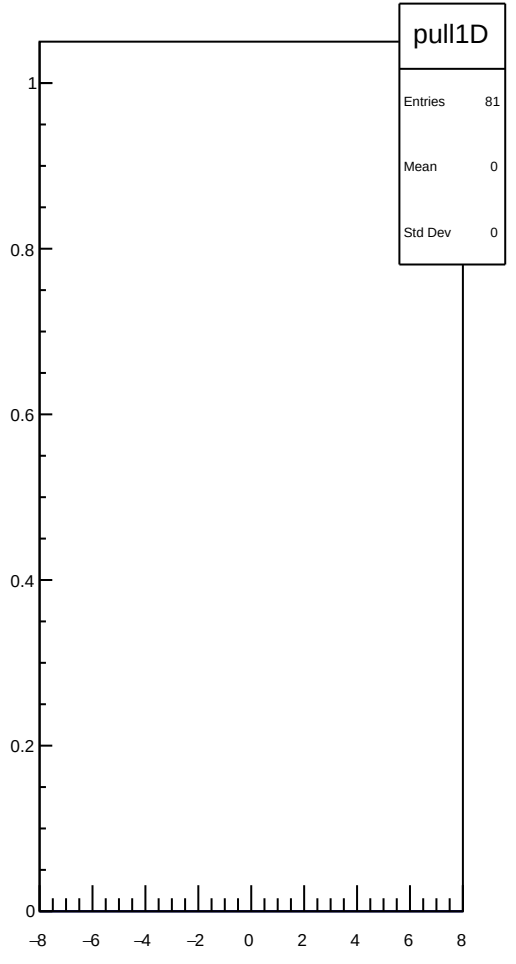

pull1D
Entries 81
Mean 0.02324
Std Dev 0.858

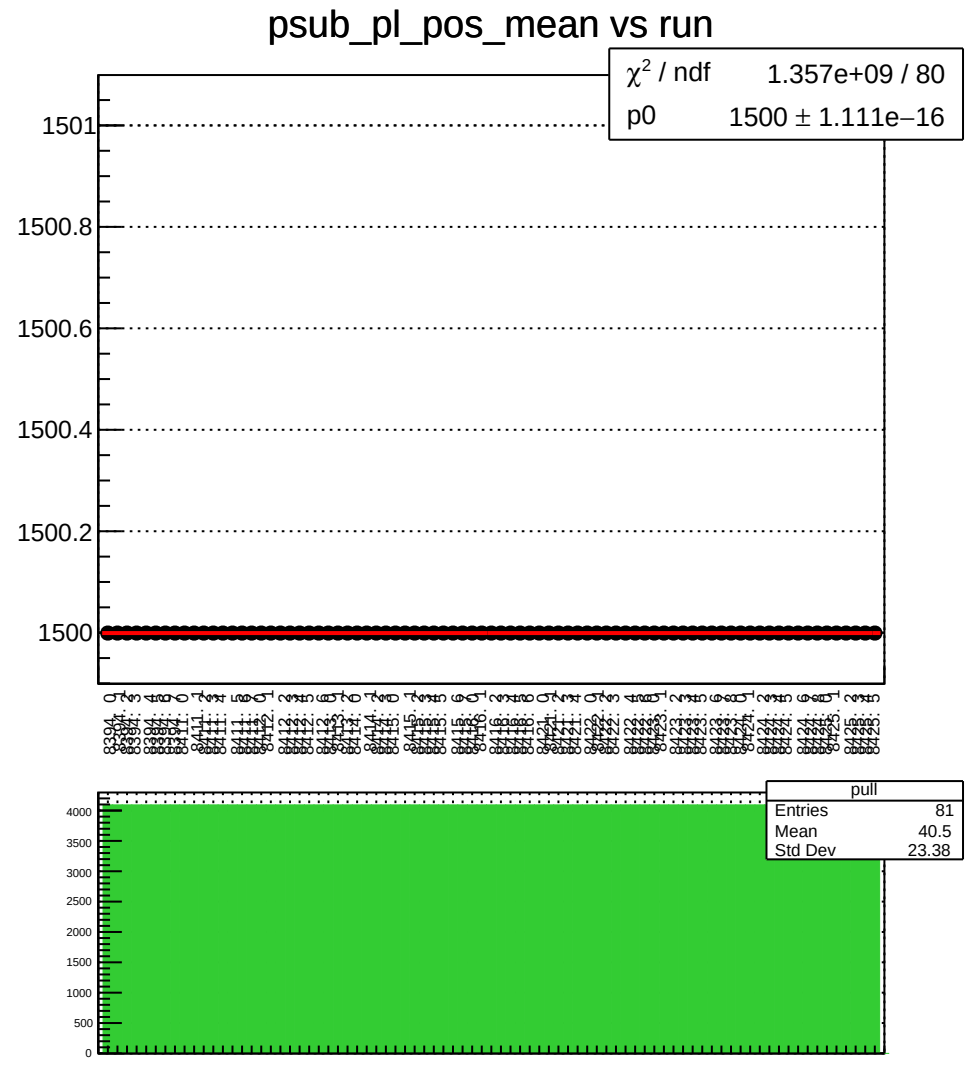

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 110 / 80
p0 −0.967 ± 0.02343
pull
Entries 81
Mean 114.3
Std Dev 102.4

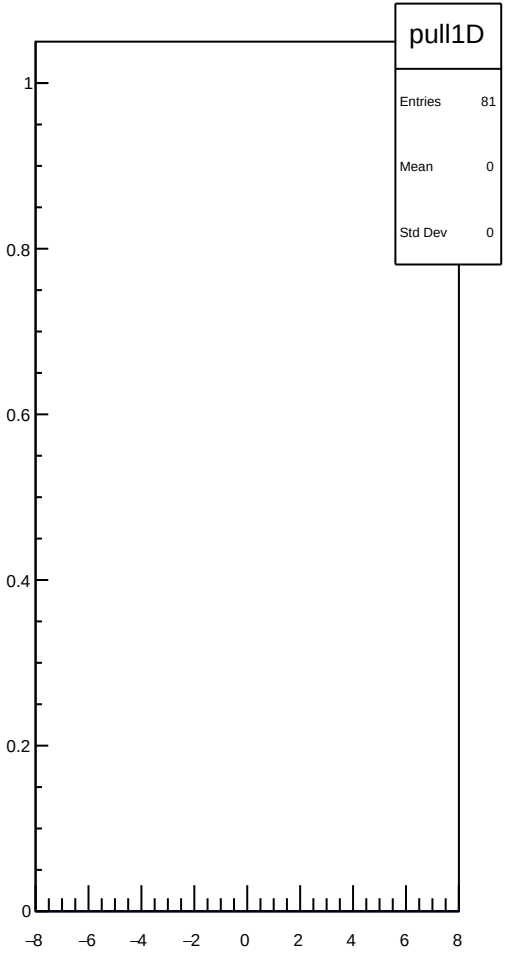

pull1D
Entries 81
Mean −0.02934
Std Dev 1.165

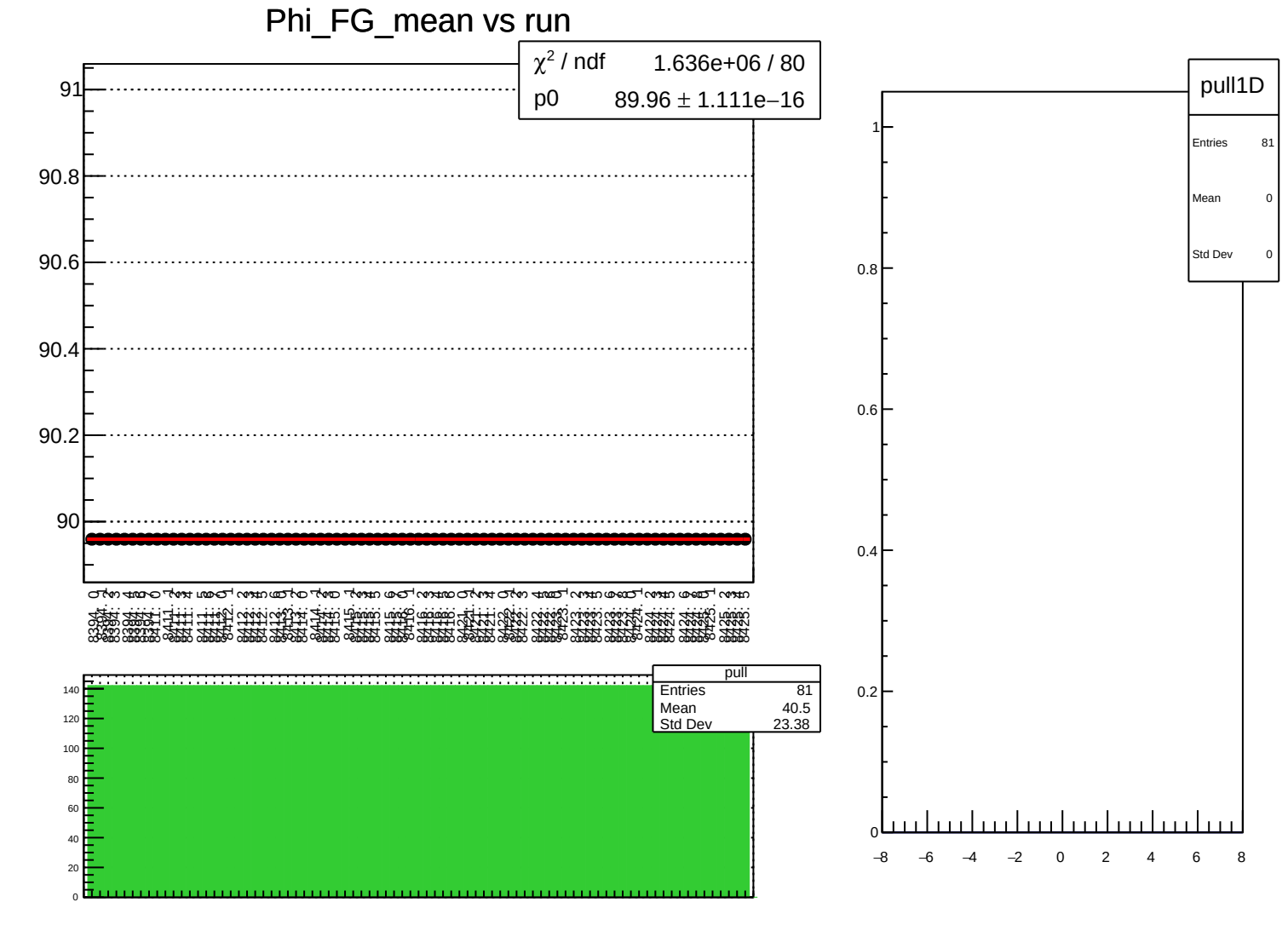

VWienAngle_mean vs run
χ² / ndf 6.543e+04 / 80
p0 88 ± 1.111e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−5
−10
−15
−20
−25
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

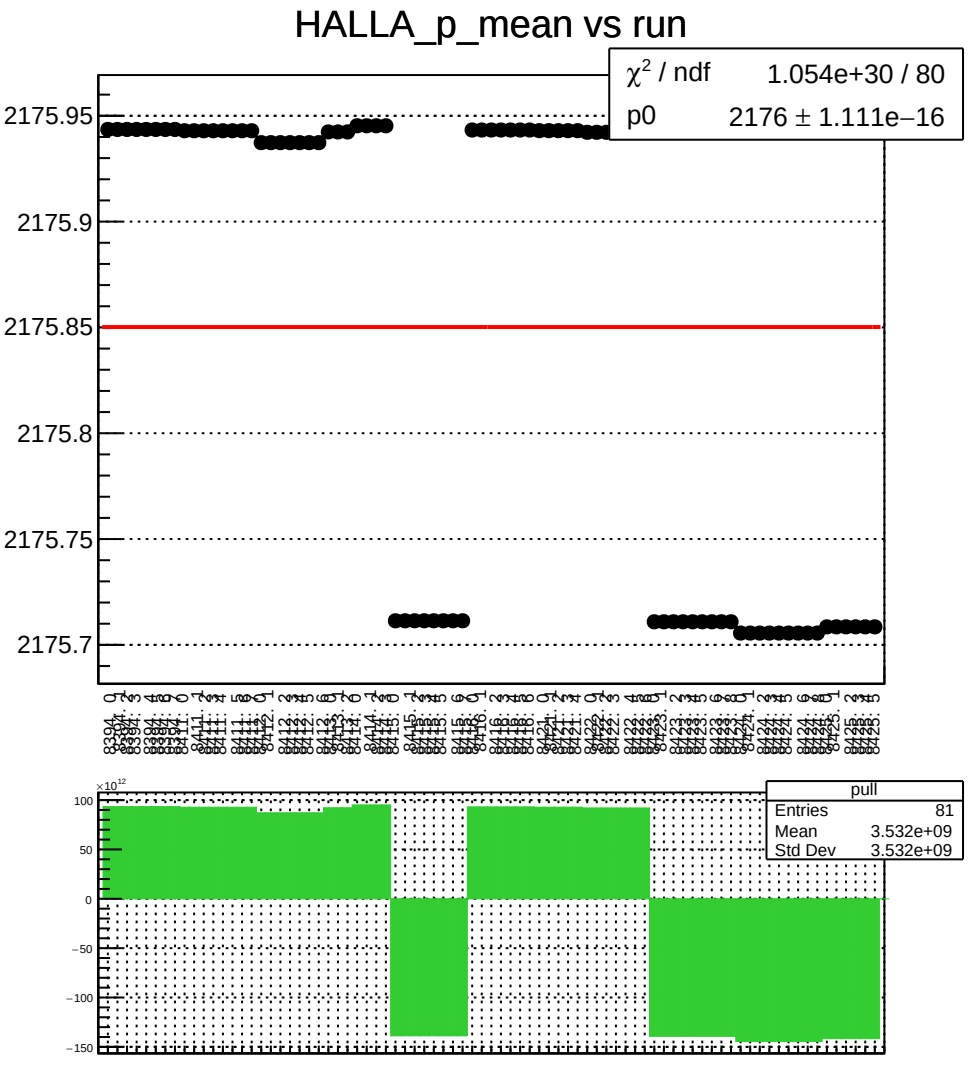

HWienAngle_mean vs run
χ² / ndf 4.509e+05 / 80
p0 −29.64 ± 1.111e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−10
−20
−30
−40
−50
−60
−70

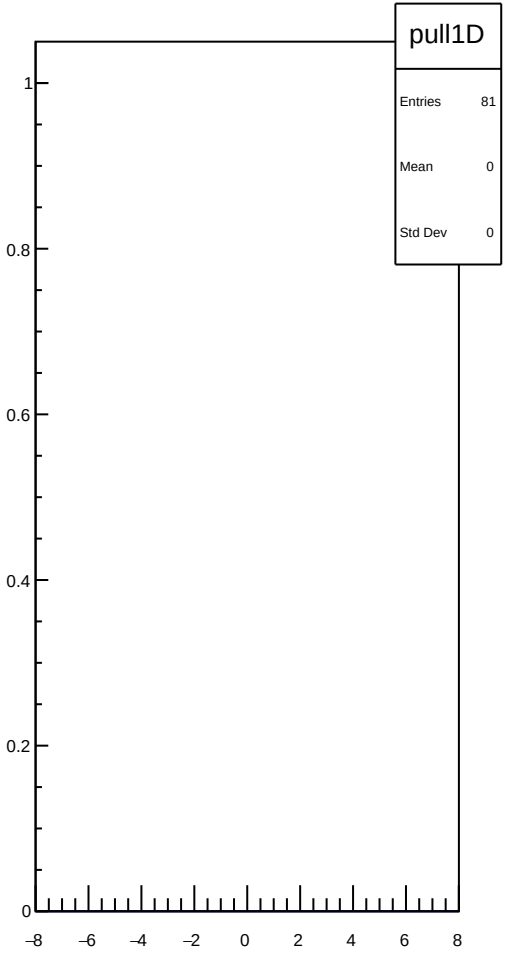

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

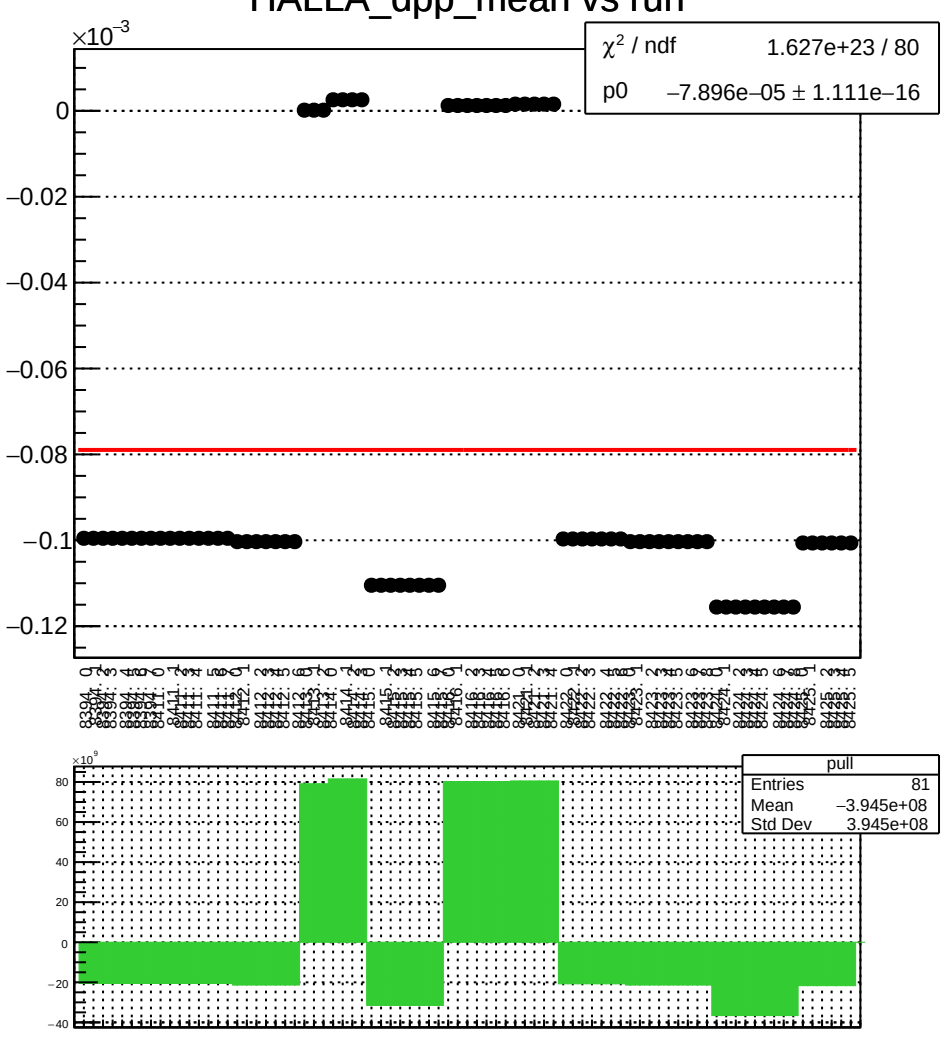

psub_pl_pos_mean vs run
χ² / ndf 1.357e+09 / 80
p0 1500 ± 1.111e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 81
Mean 40.5
Std Dev 23.38
4000
3500
3000
2500
2000
1500
1000
500
0

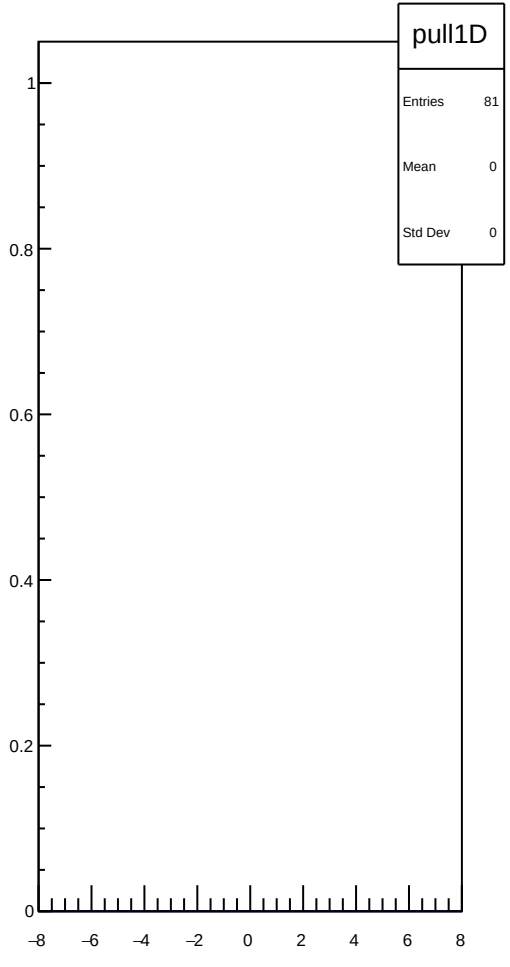

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

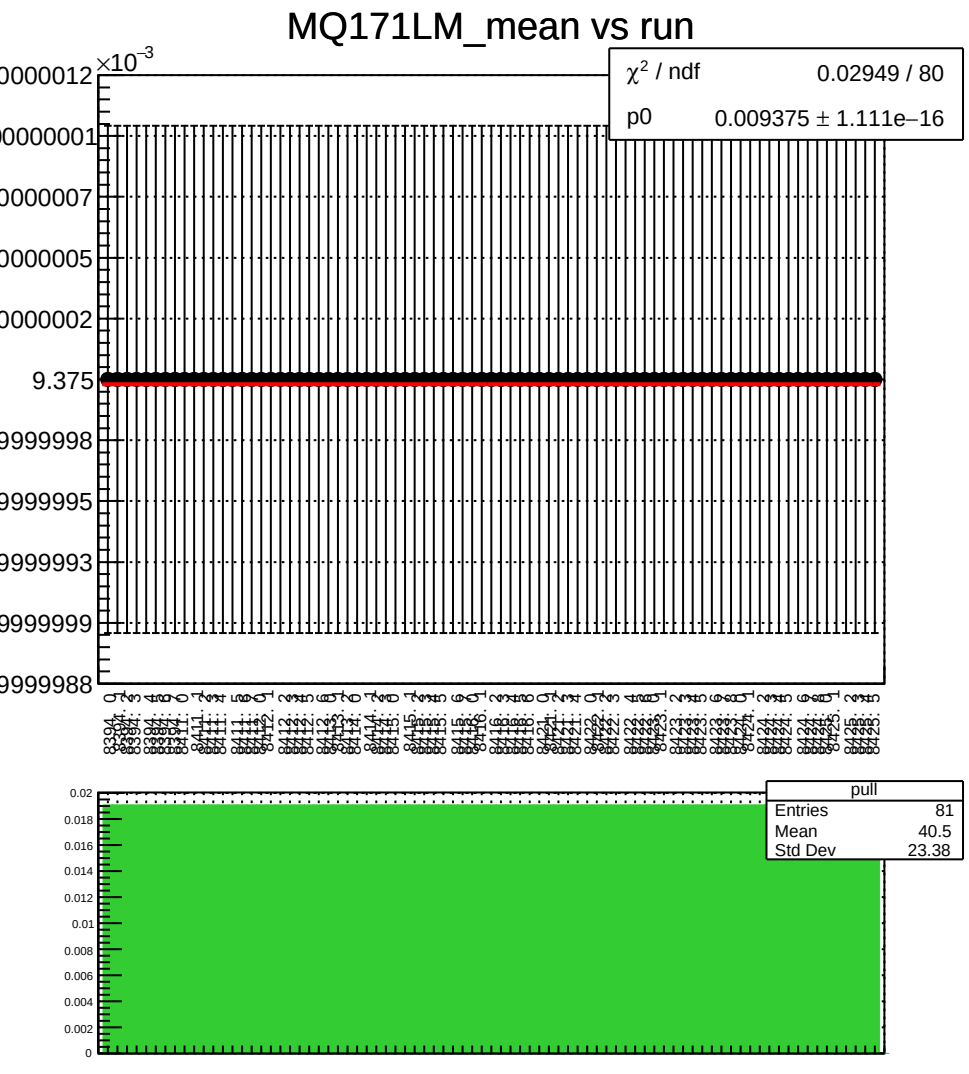

Phi_FG_mean vs run
χ² / ndf 1.636e+06 / 80
p0 89.96 ± 1.111e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 81
Mean 40.5
Std Dev 23.38
140
120
100
80
60
40
20
0
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

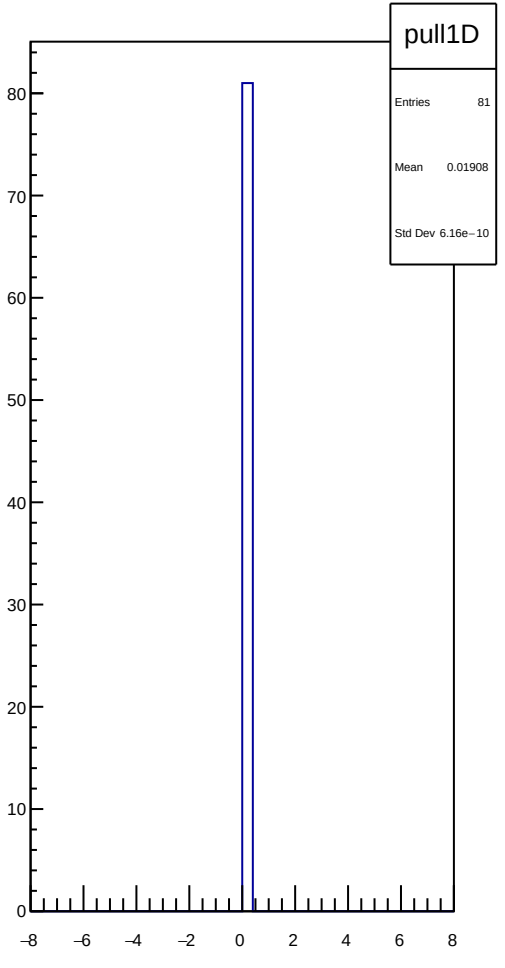

HALLA_p_mean vs run
χ² / ndf 1.054e+30 / 80
p0 2176 ± 1.111e−16
2175.95
2175.9
2175.85
2175.8
2175.75
2175.7
pull
Entries 81
Mean 3.532e+09
Std Dev 3.532e+09
×10¹²
100
50
0
−50
−100
−150

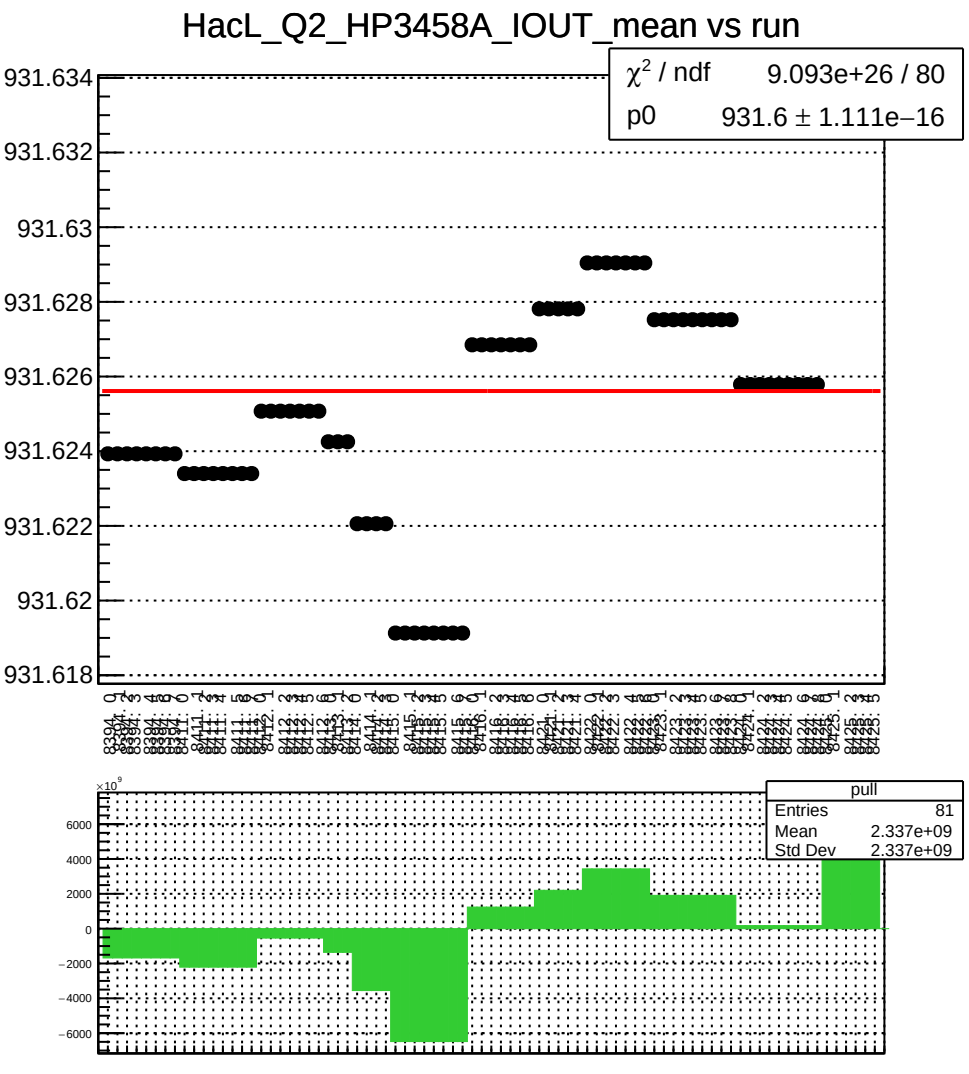

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

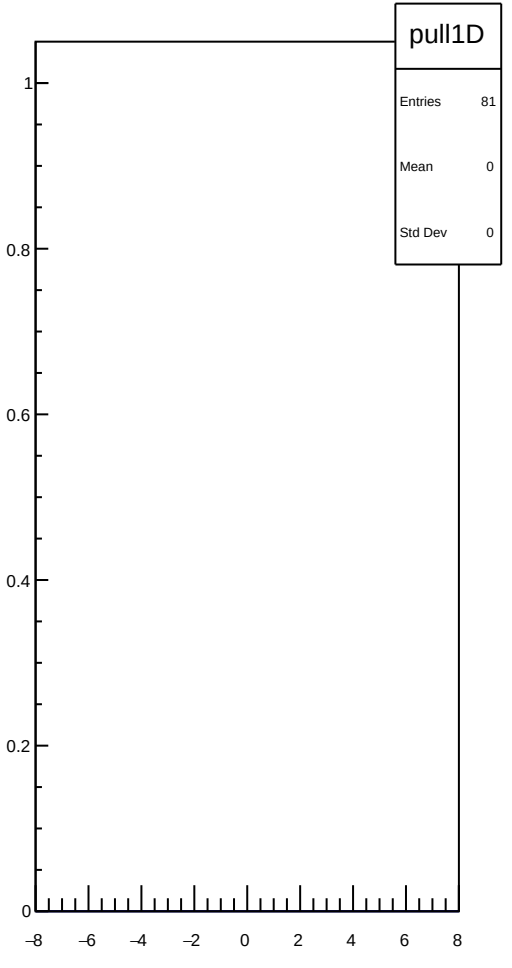

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.627e+23 / 80
p0 −7.896e−05 ± 1.111e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
80
60
40
20
0
−20
−40
pull
Entries 81
Mean −3.945e+08
Std Dev 3.945e+08

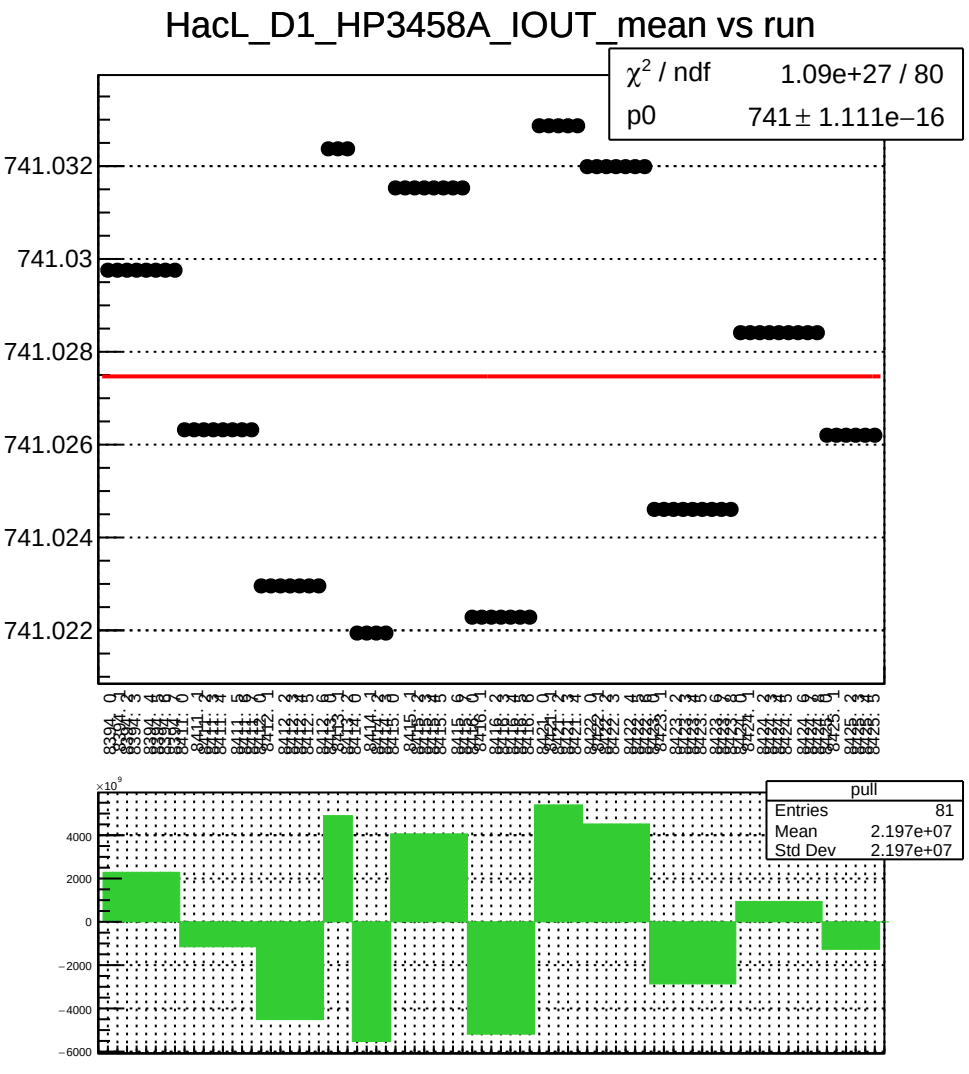

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

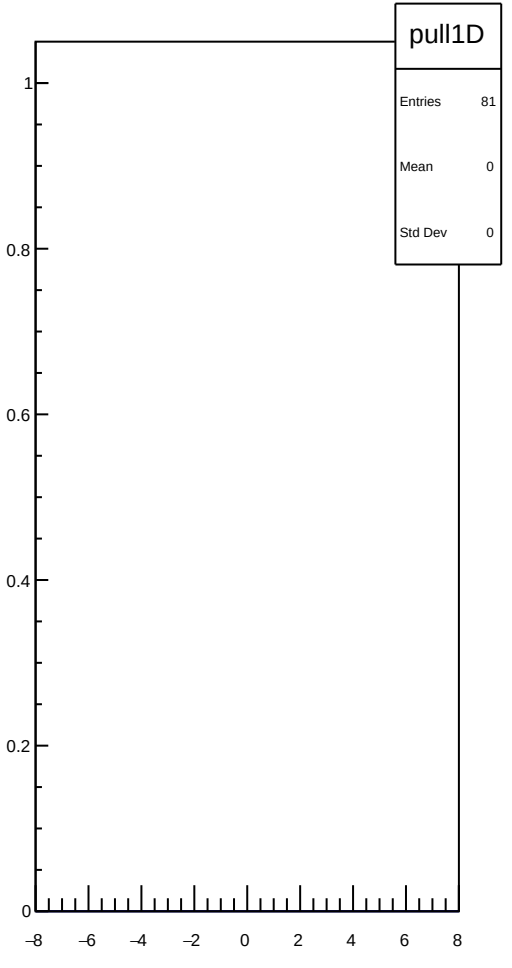

MQ171LM_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
pull
Entries 81
Mean 40.5
Std Dev 23.38

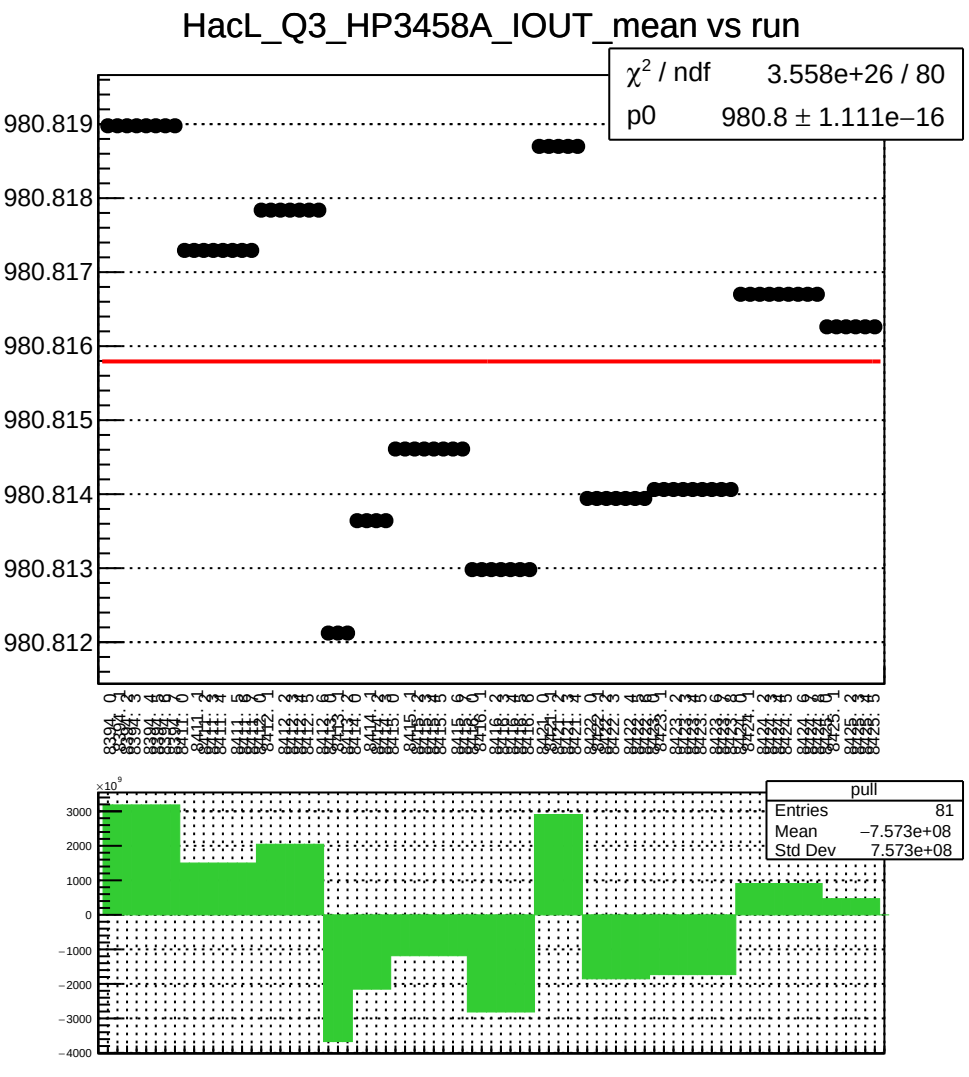

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

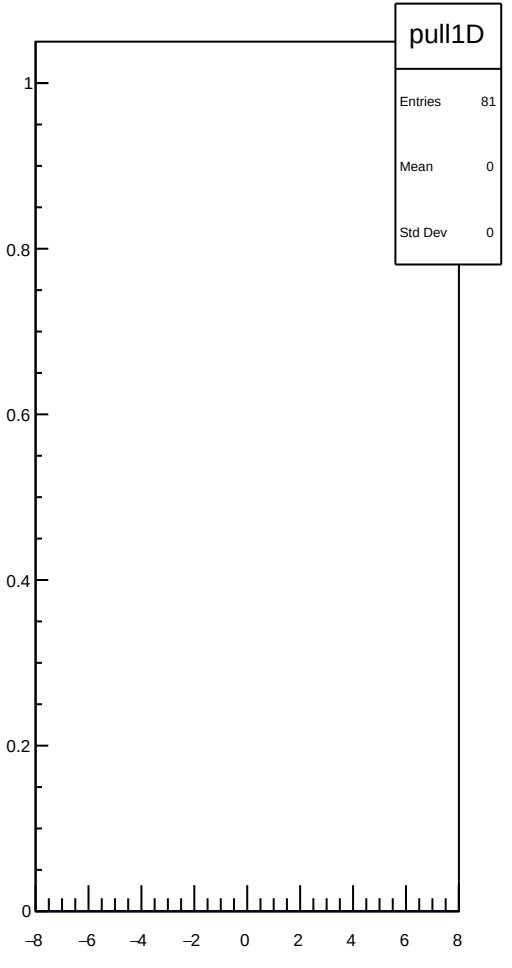

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 9.093e+26 / 80
p0 931.6 ± 1.111e−16
931.634
931.632
931.63
931.628
931.626
931.624
931.622
931.62
931.618
pull
Entries 81
Mean 2.337e+09
Std Dev 2.337e+09
×10⁹
6000
4000
2000
0
−2000
−4000
−6000

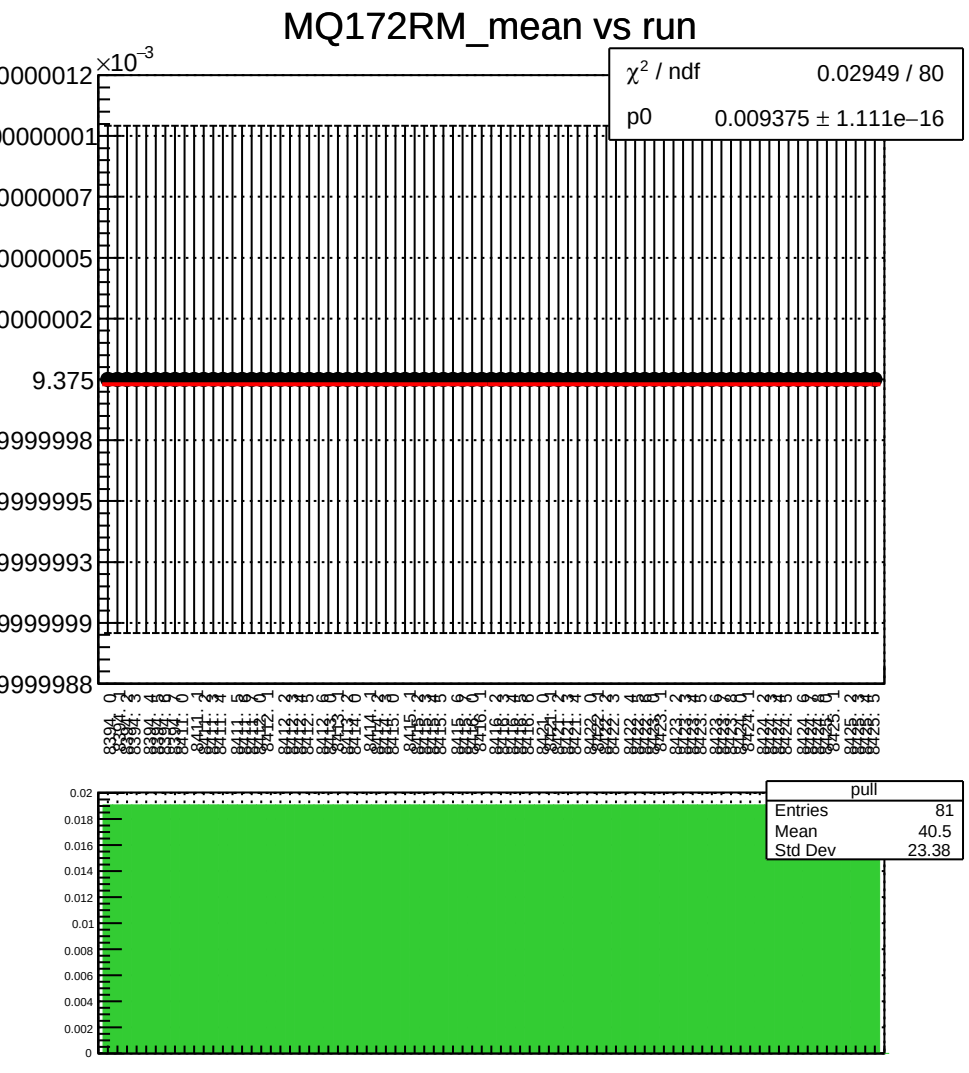

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

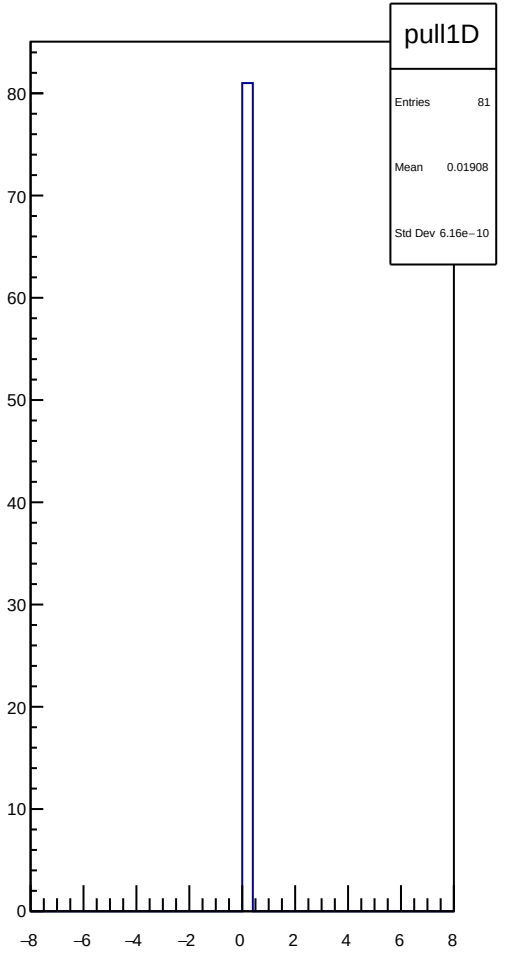

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.09e+27 / 80
p0 741 ± 1.111e−16
741.032
741.03
741.028
741.026
741.024
741.022
×10⁹
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 2.197e+07
Std Dev 2.197e+07

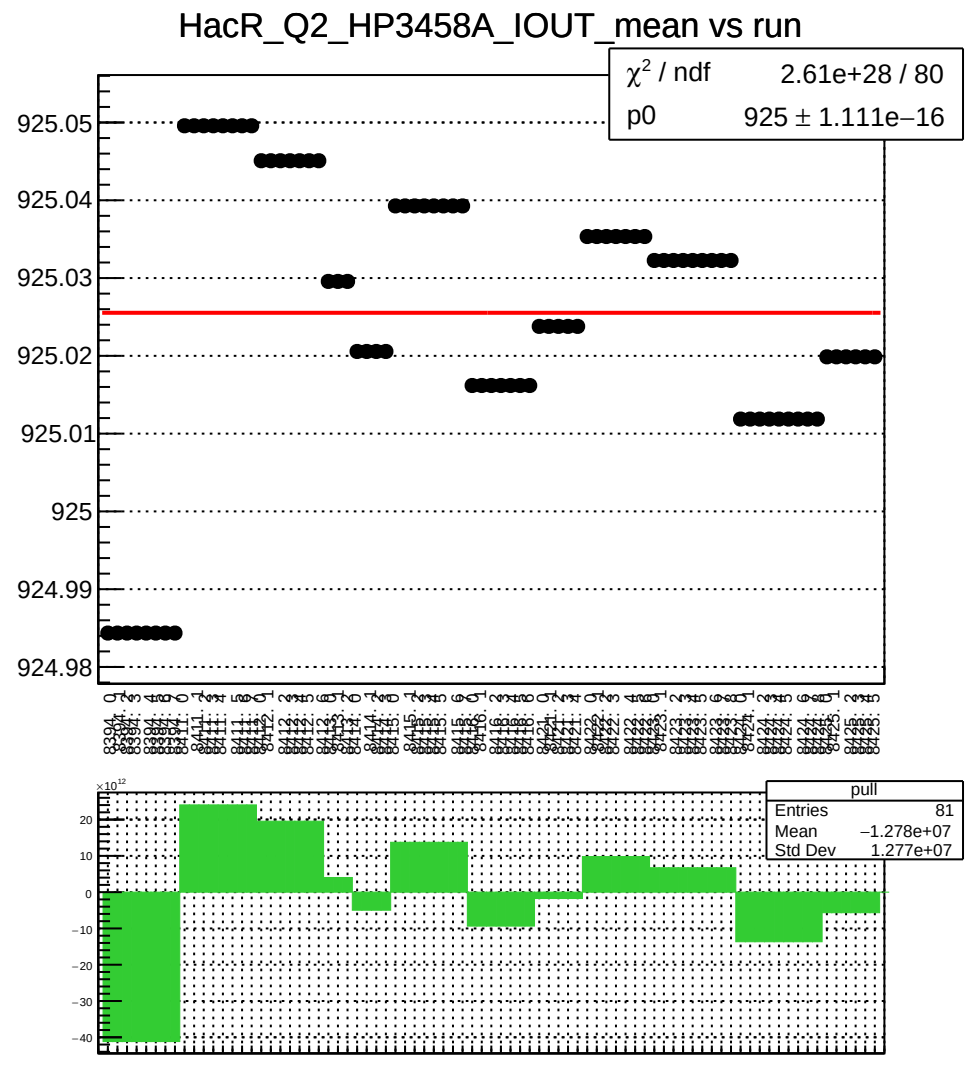

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

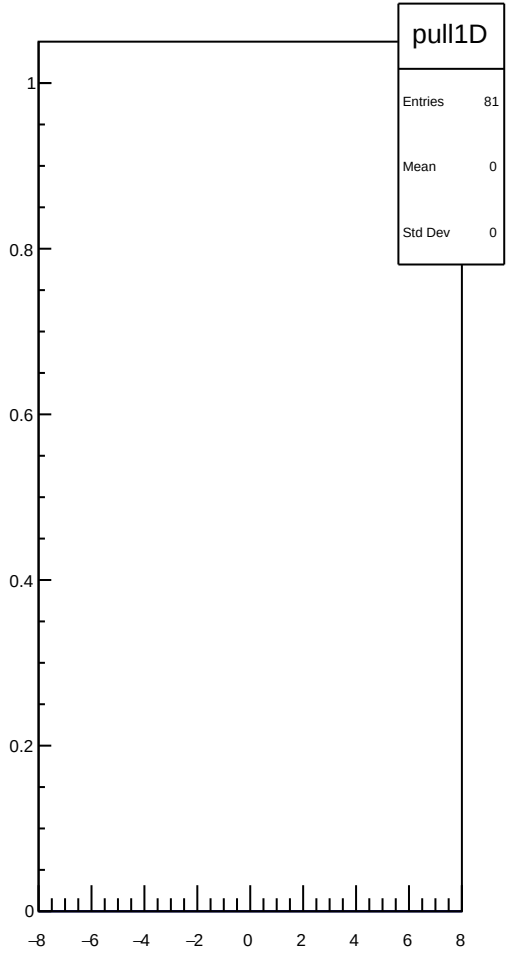

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.558e+26 / 80
p0 980.8 ± 1.111e−16
980.819
980.818
980.817
980.816
980.815
980.814
980.813
980.812
pull
Entries 81
Mean −7.573e+08
Std Dev 7.573e+08
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000

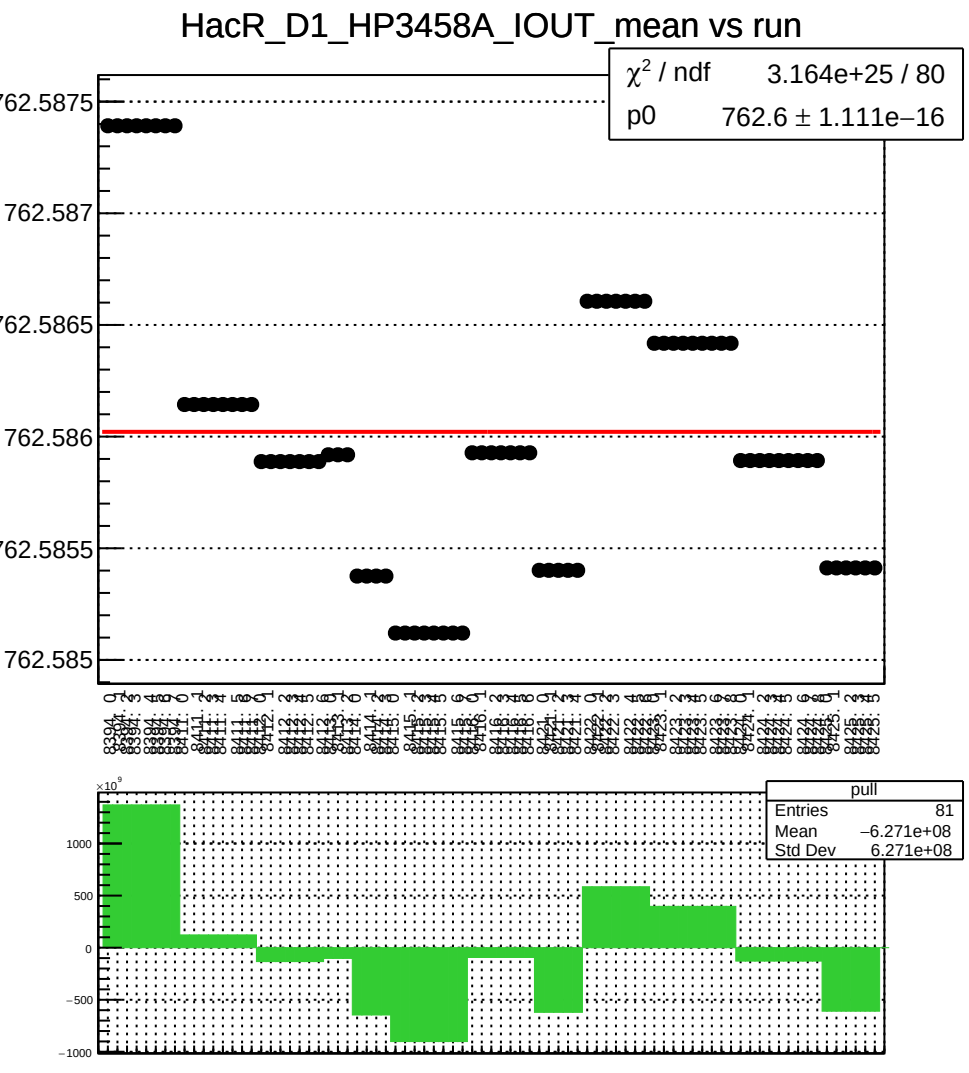

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

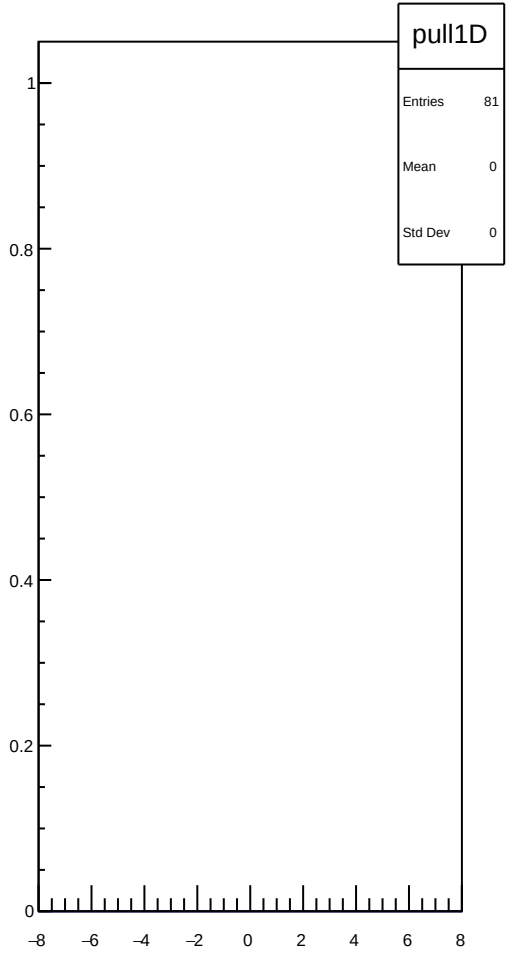

MQ172RM_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
pull
Entries 81
Mean 40.5
Std Dev 23.38

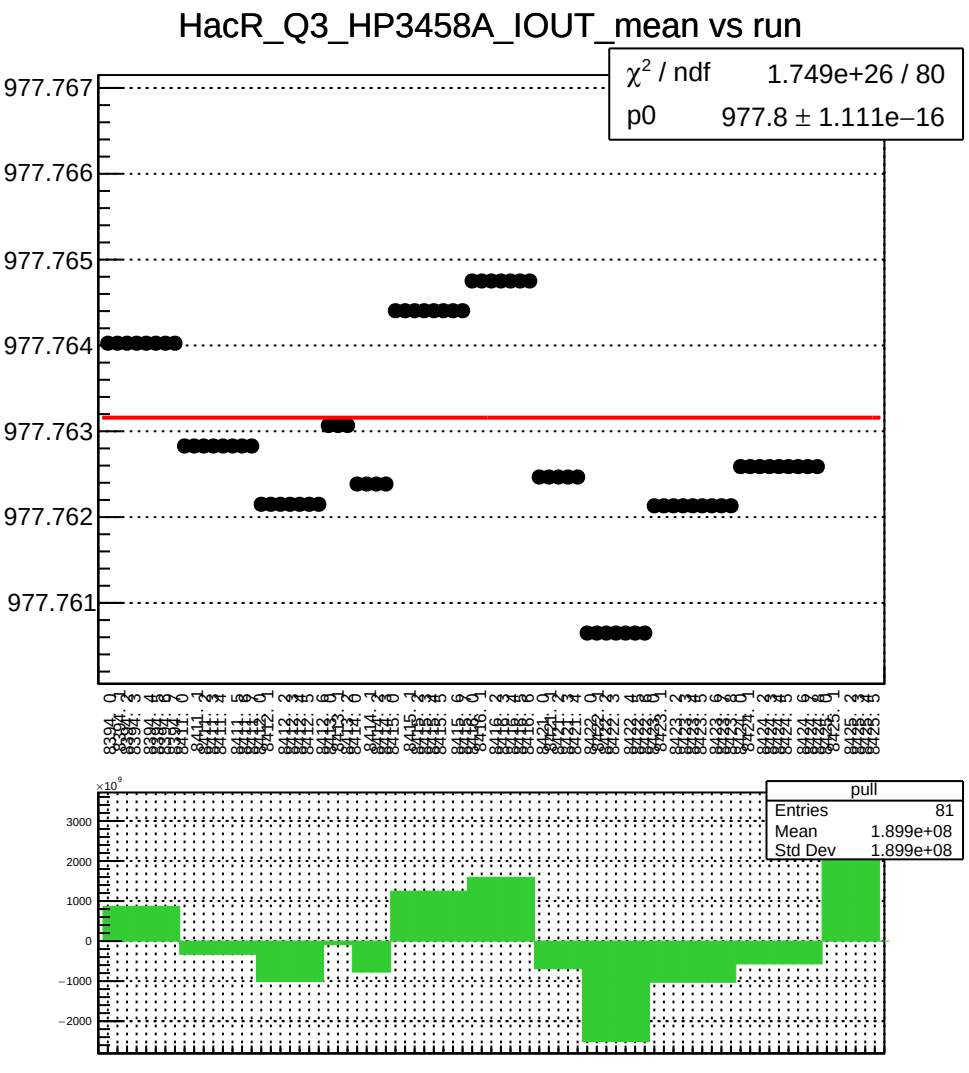

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

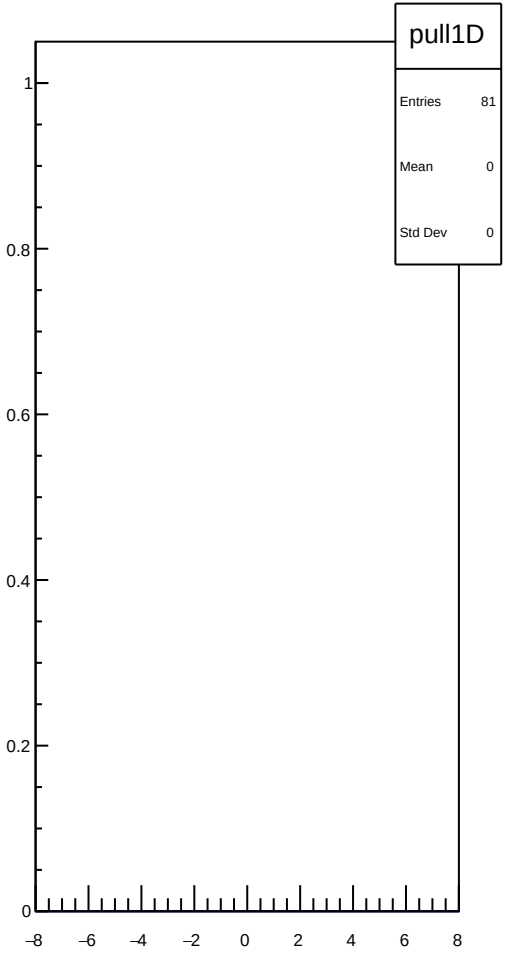

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.61e+28 / 80
p0 925 ± 1.111e−16
925.05
925.04
925.03
925.02
925.01
925
924.99
924.98
pull
Entries 81
Mean −1.278e+07
Std Dev 1.277e+07
×10¹²
20
10
0
−10
−20
−30
−40

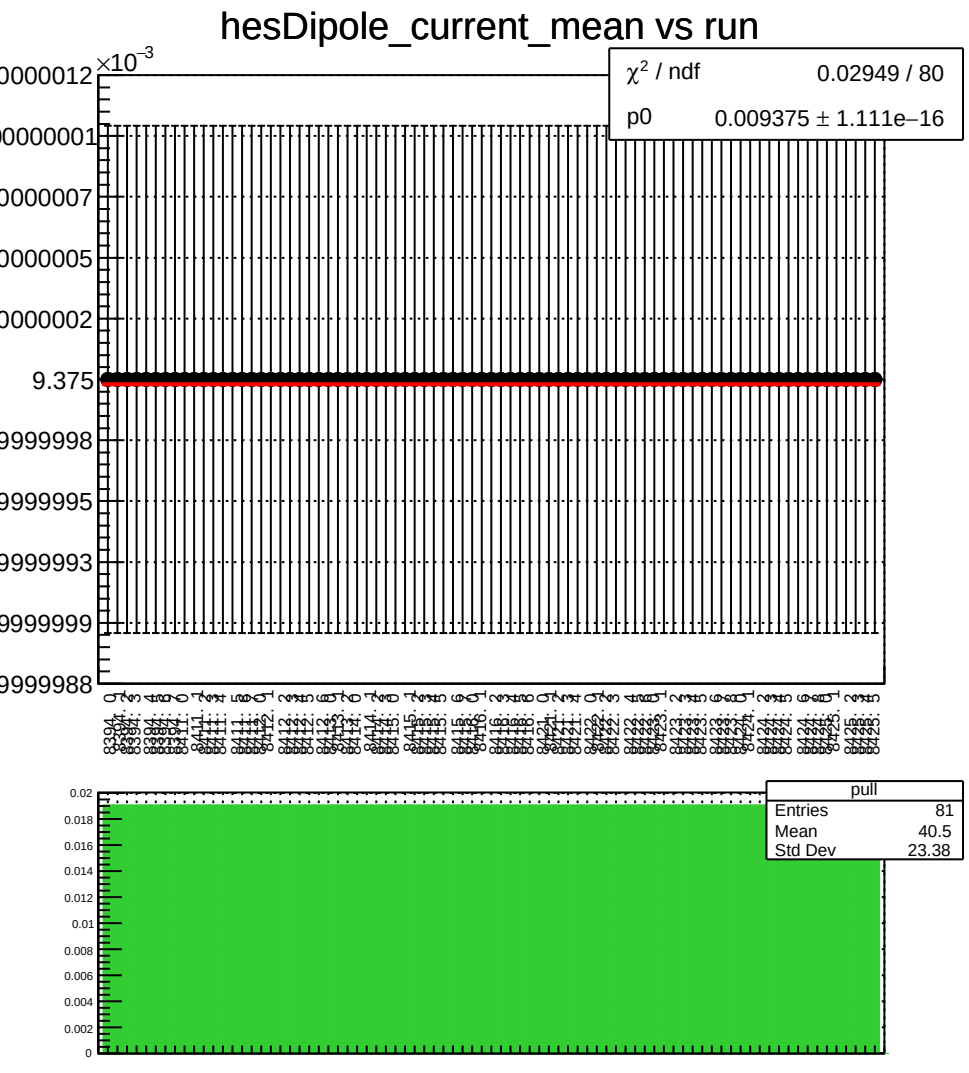

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

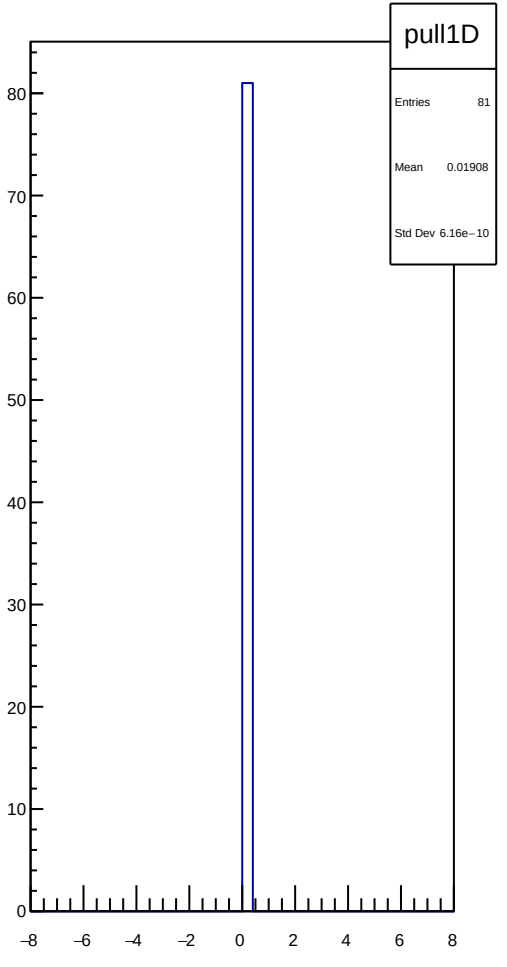

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.164e+25 / 80
p0 762.6 ± 1.111e−16
762.5875
762.587
762.5865
762.586
762.5855
762.585
pull
Entries 81
Mean −6.271e+08
Std Dev 6.271e+08
×10⁹
1000
500
0
−500
−1000

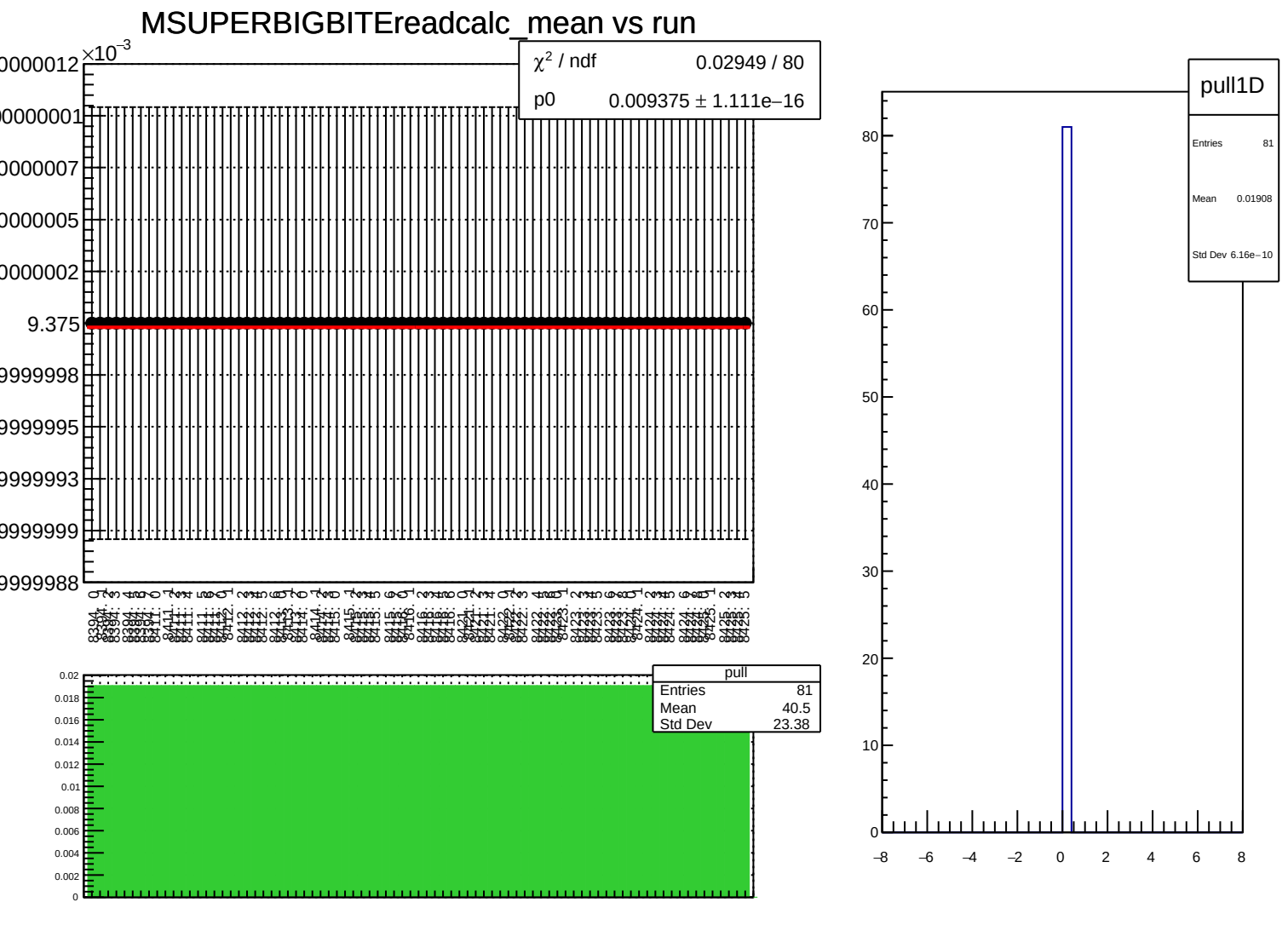

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

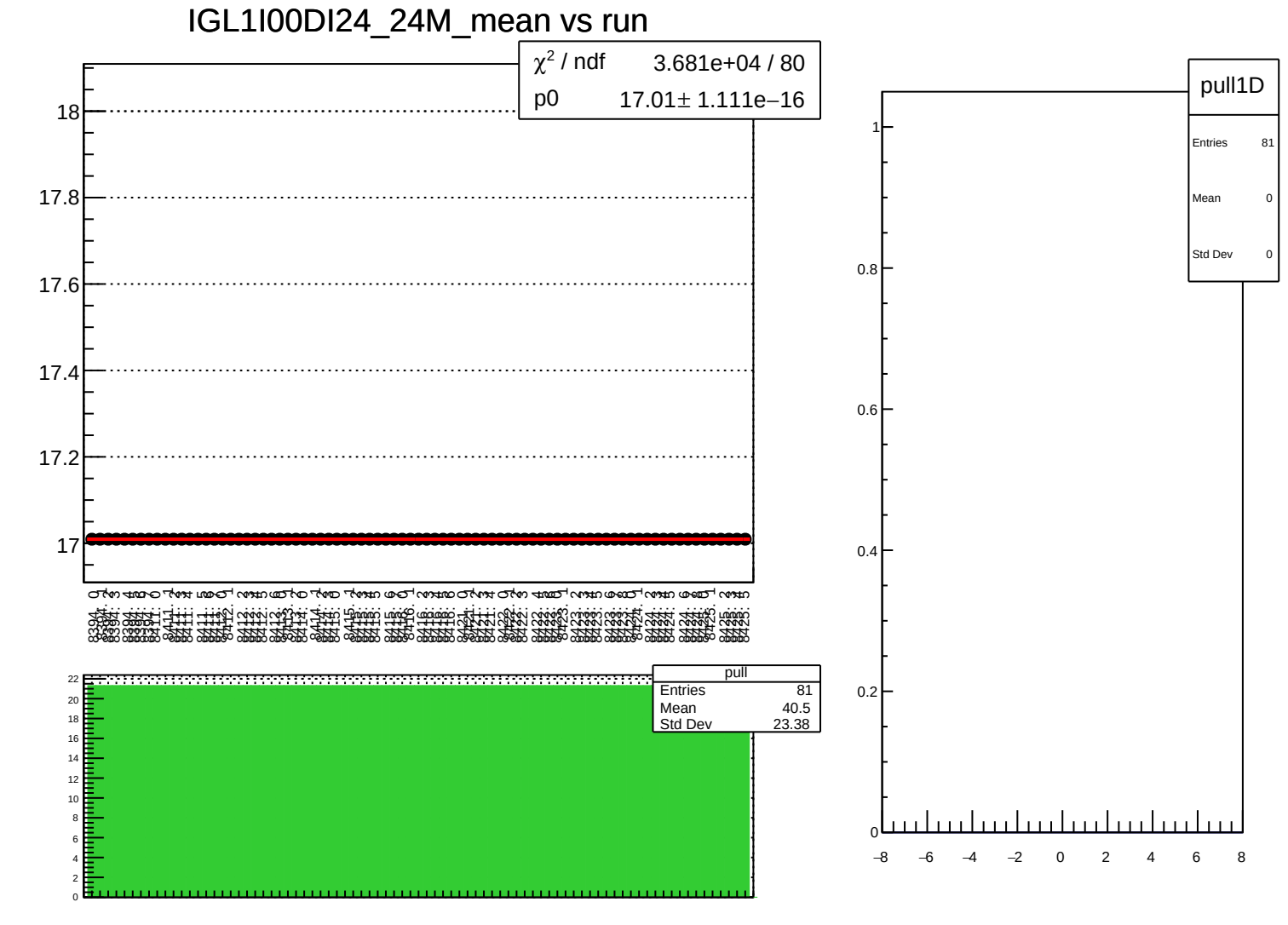

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.749e+26 / 80
p0 977.8 ± 1.111e−16
977.767
977.766
977.765
977.764
977.763
977.762
977.761
×10⁹
3000
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 1.899e+08
Std Dev 1.899e+08

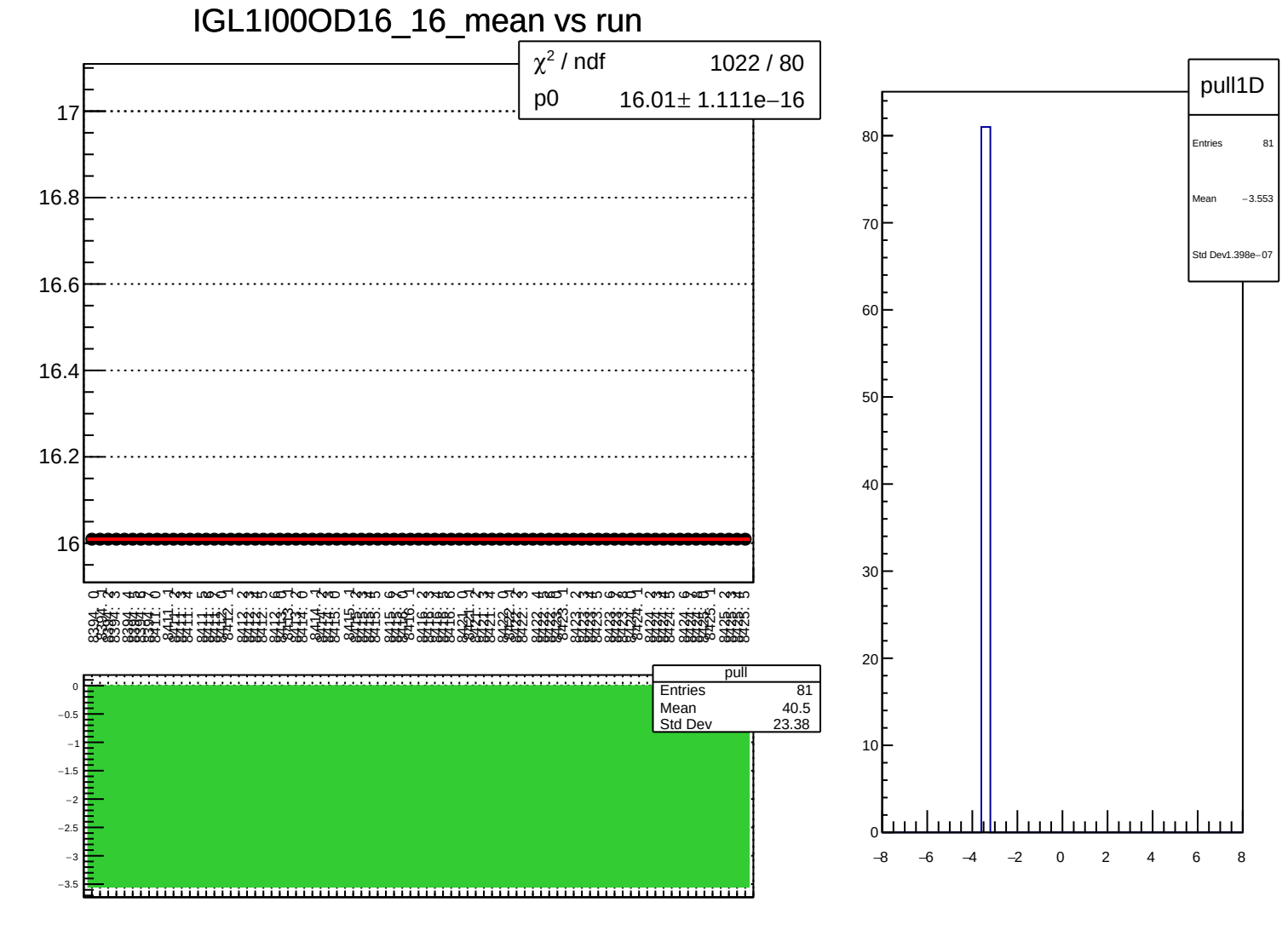

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

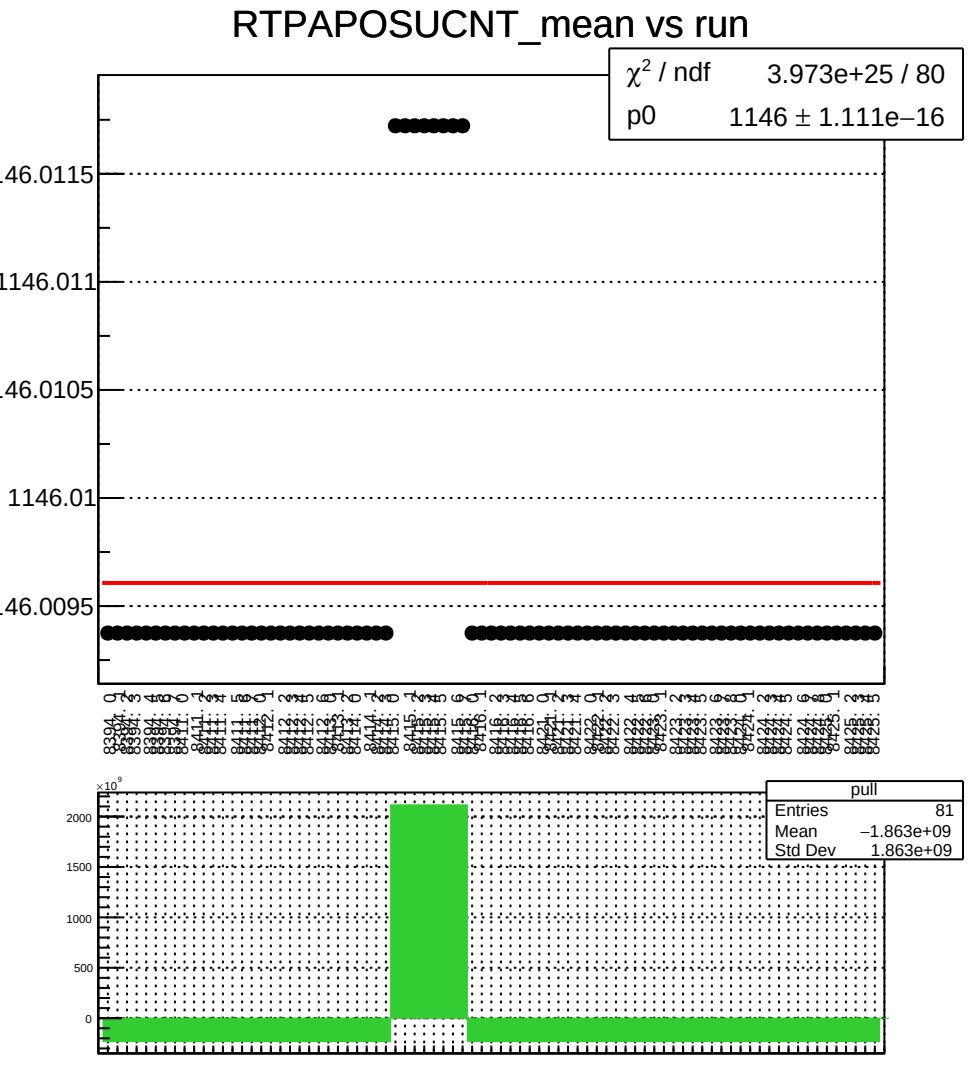

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
9.375
pull
Entries 81
Mean 40.5
Std Dev 23.38

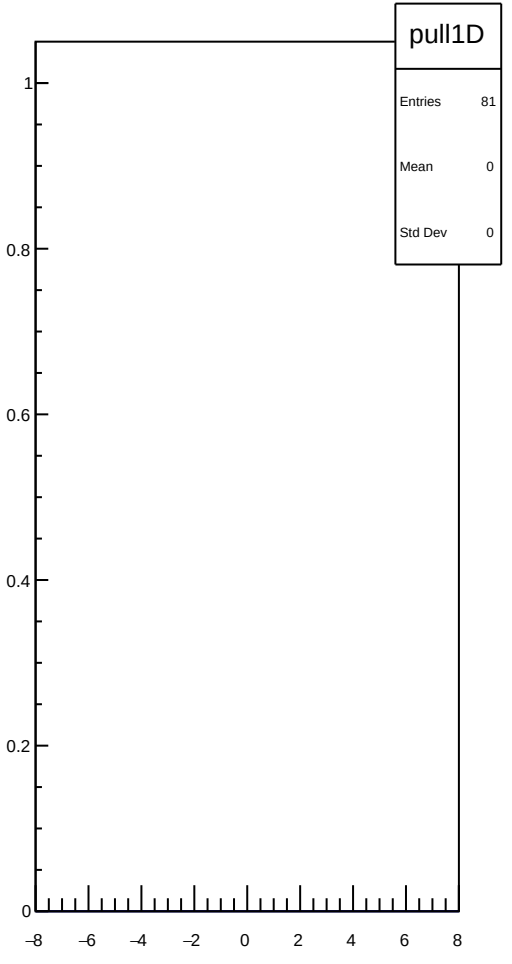

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

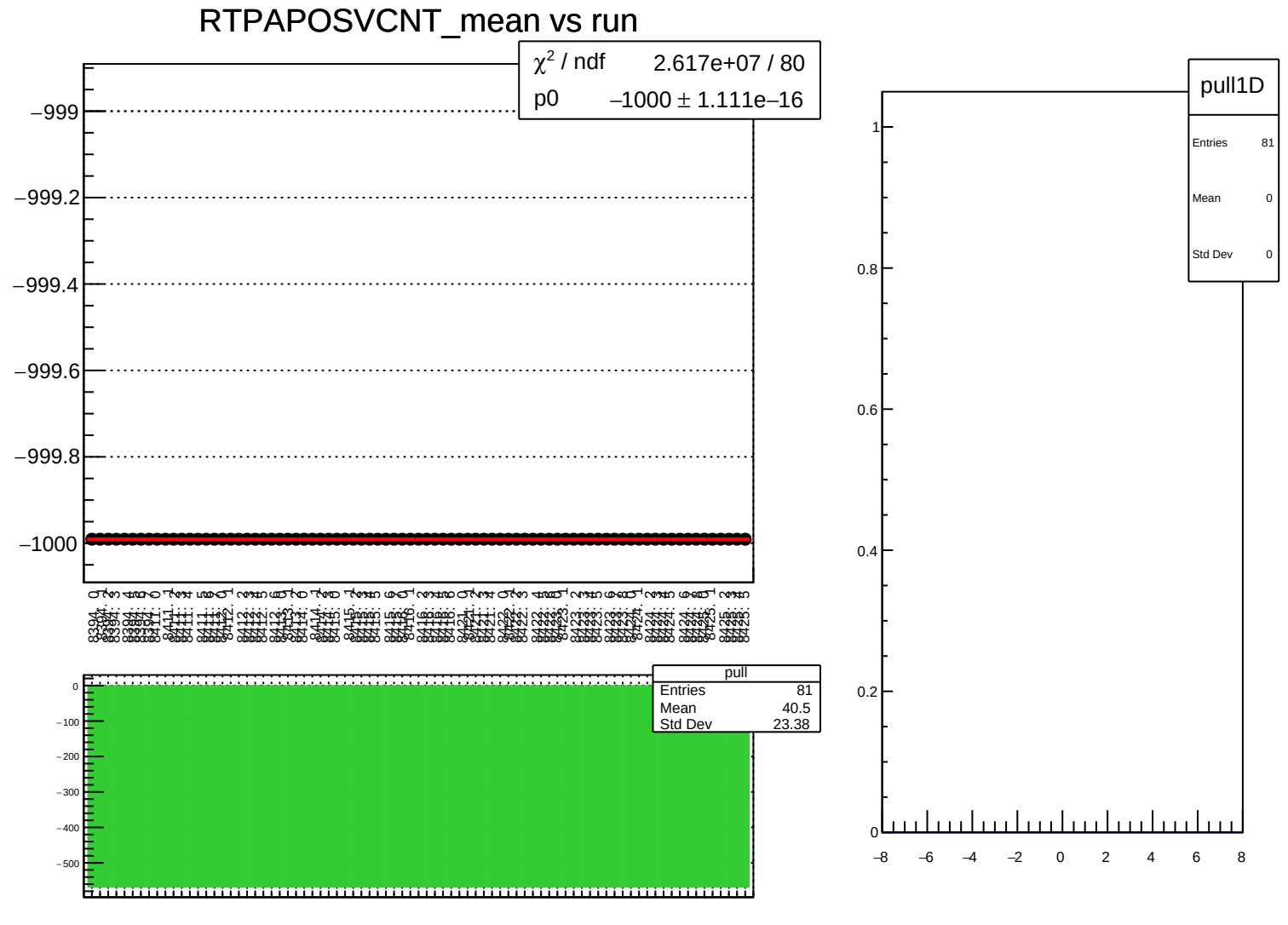

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
pull
Entries 81
Mean 40.5
Std Dev 23.38
pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

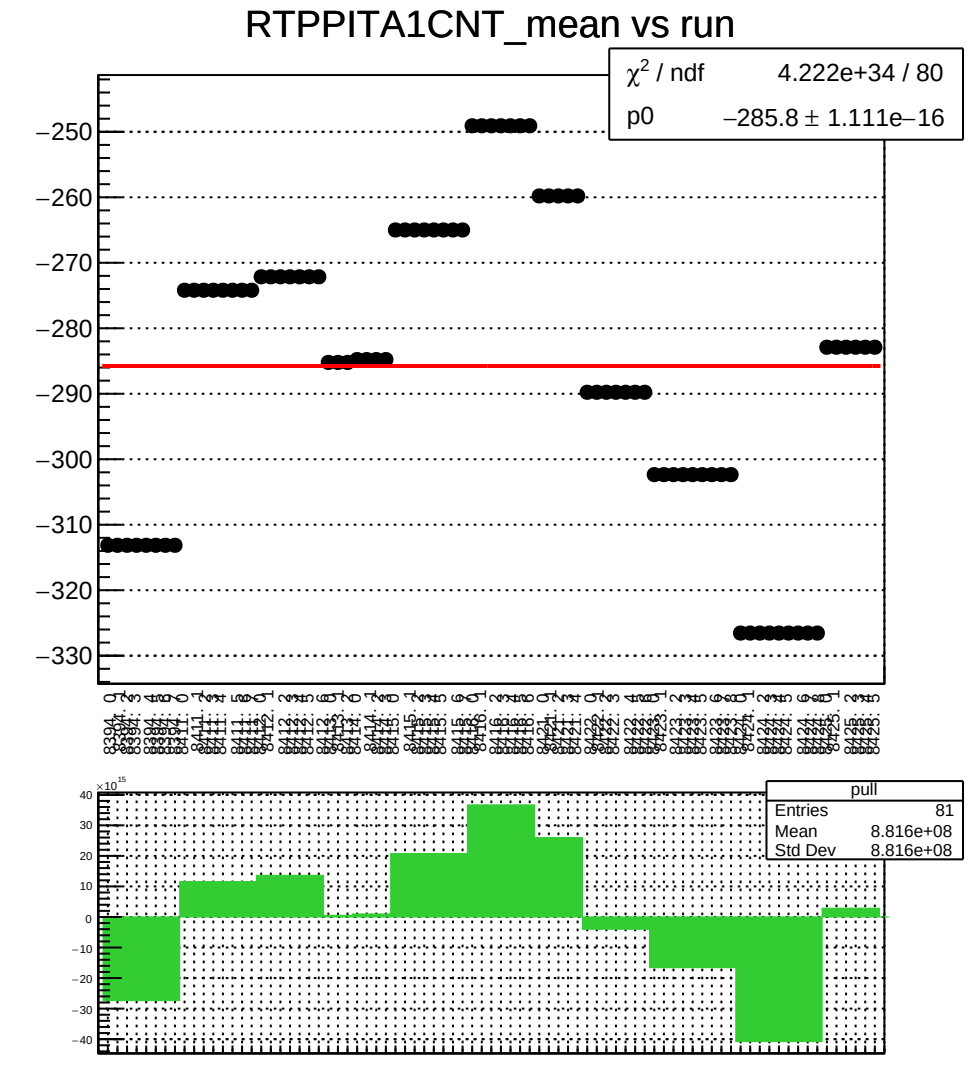

IGL1I00DI24_24M_mean vs run
χ² / ndf 3.681e+04 / 80
p0 17.01± 1.111e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 81
Mean 40.5
Std Dev 23.38
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

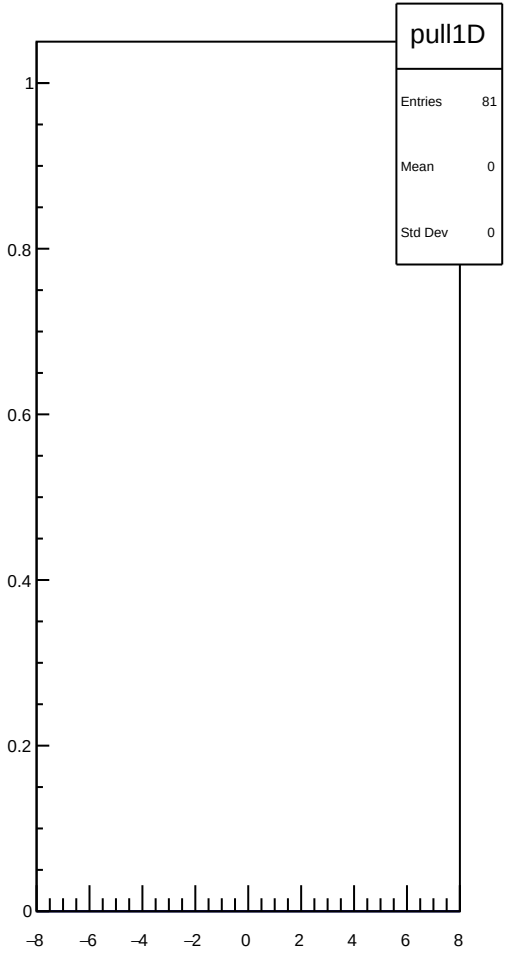

IGL1I00OD16_16_mean vs run
χ² / ndf 1022 / 80
p0 16.01± 1.111e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 81
Mean −3.553
Std Dev 1.398e−07
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

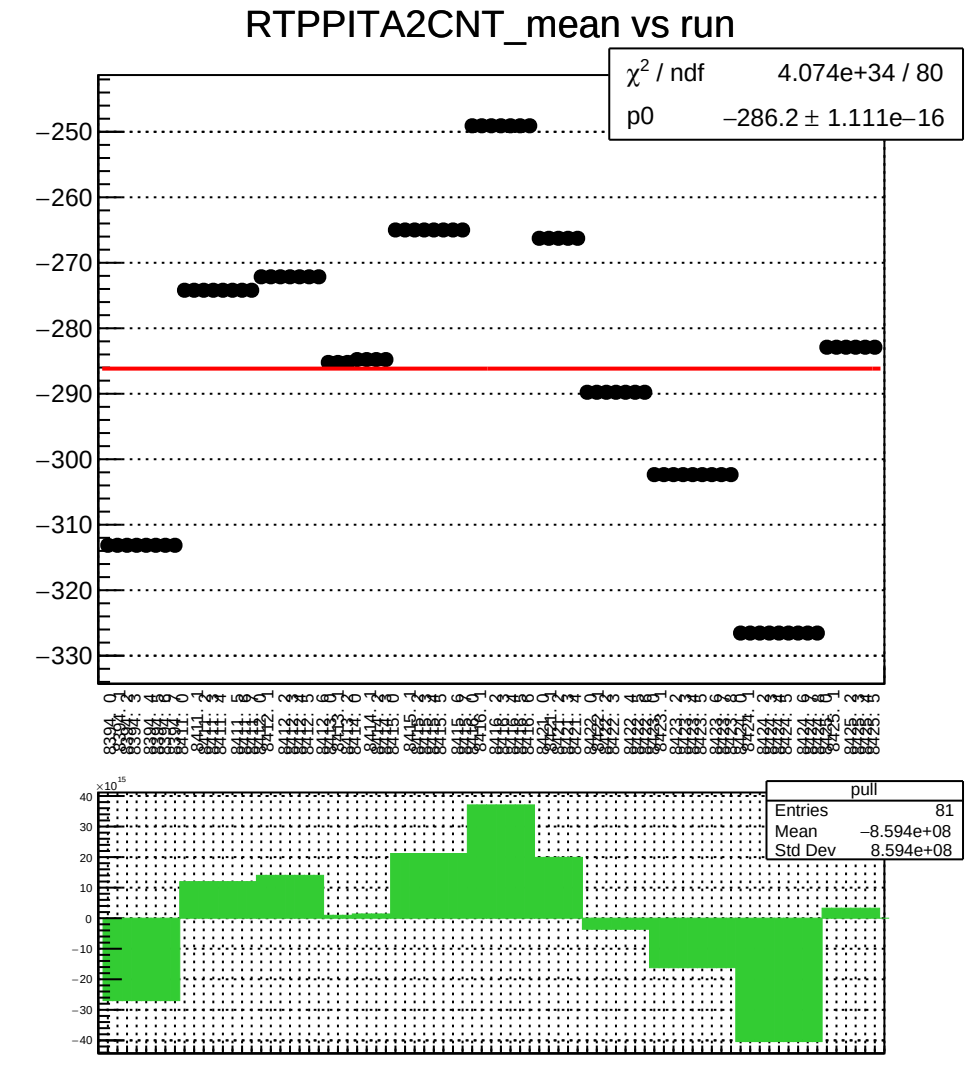

RTPAPOSUCNT_mean vs run
χ² / ndf 3.973e+25 / 80
p0 1146 ± 1.111e−16
1146.0115
1146.011
1146.0105
1146.01
1146.0095
×10⁹
2000
1500
1000
500
0
pull
Entries 81
Mean −1.863e+09
Std Dev 1.863e+09

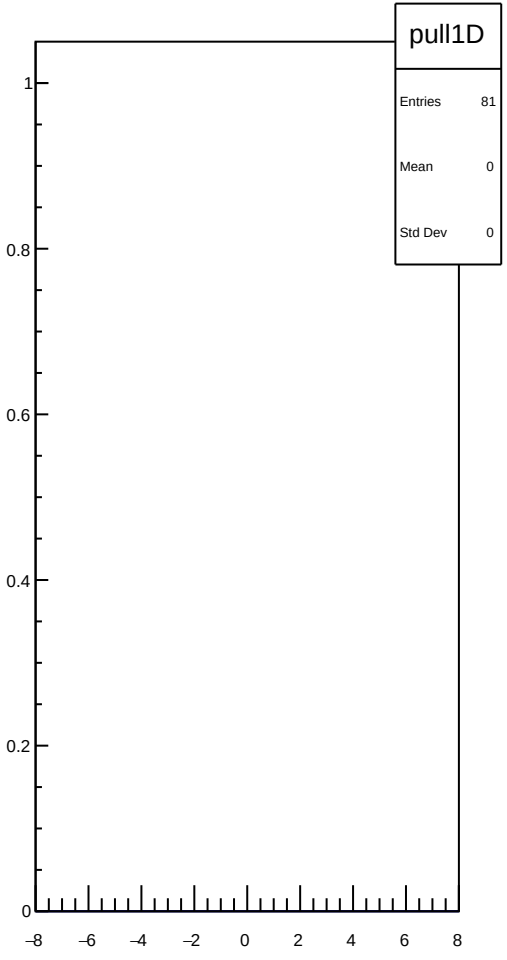

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 2.617e+07 / 80
p0 −1000 ± 1.111e−16
−999
−999.2
−999.4
−999.6
−999.8
−1000
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−100
−200
−300
−400
−500
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 4.222e+34 / 80
p0 −285.8 ± 1.111e−16
pull
Entries 81
Mean 8.816e+08
Std Dev 8.816e+08


pull1D
Entries 81
Mean 0
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 4.074e+34 / 80
p0 −286.2 ± 1.111e−16
pull
Entries 81
Mean −8.594e+08
Std Dev 8.594e+08


pull1D
Entries 81
Mean 0
Std Dev 0