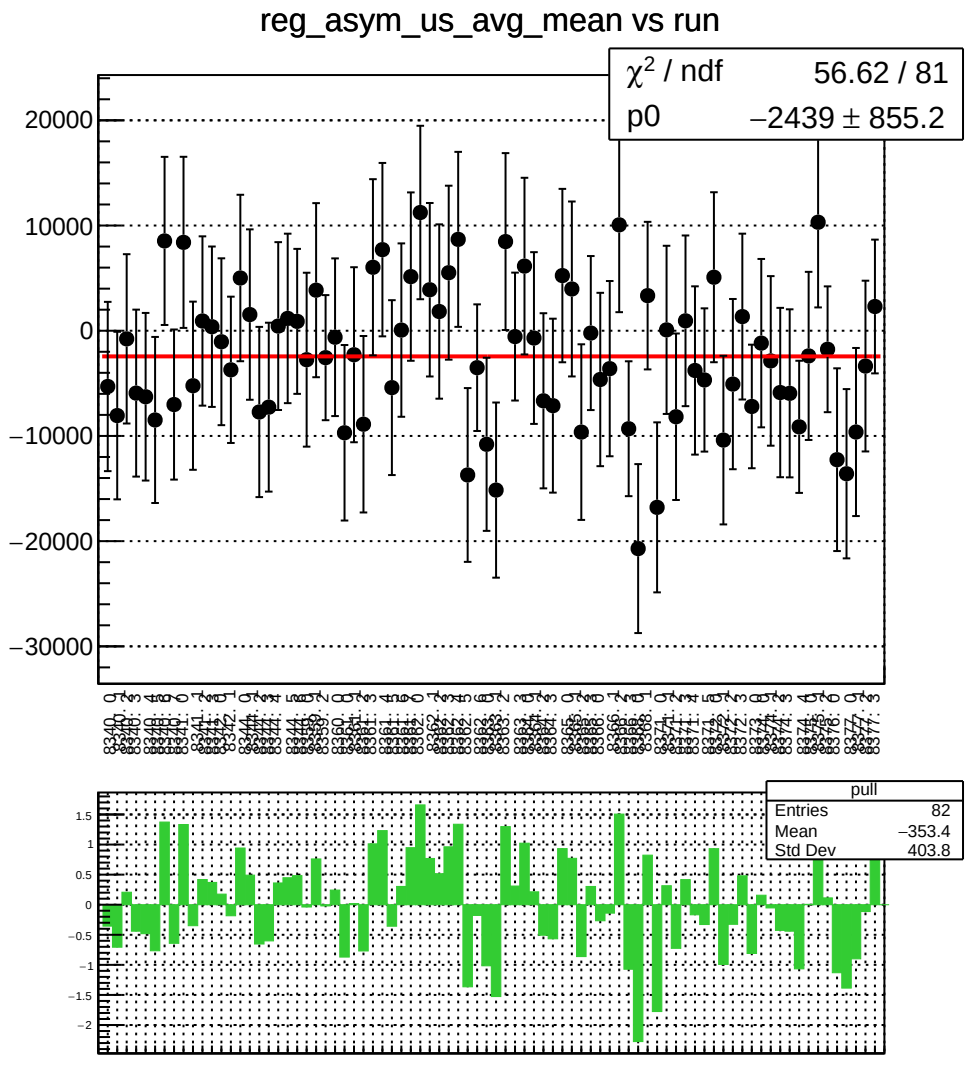
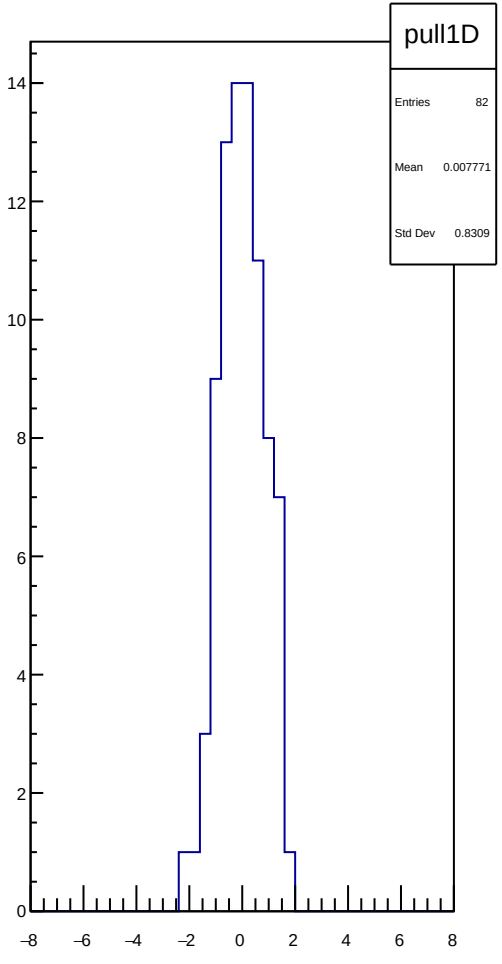
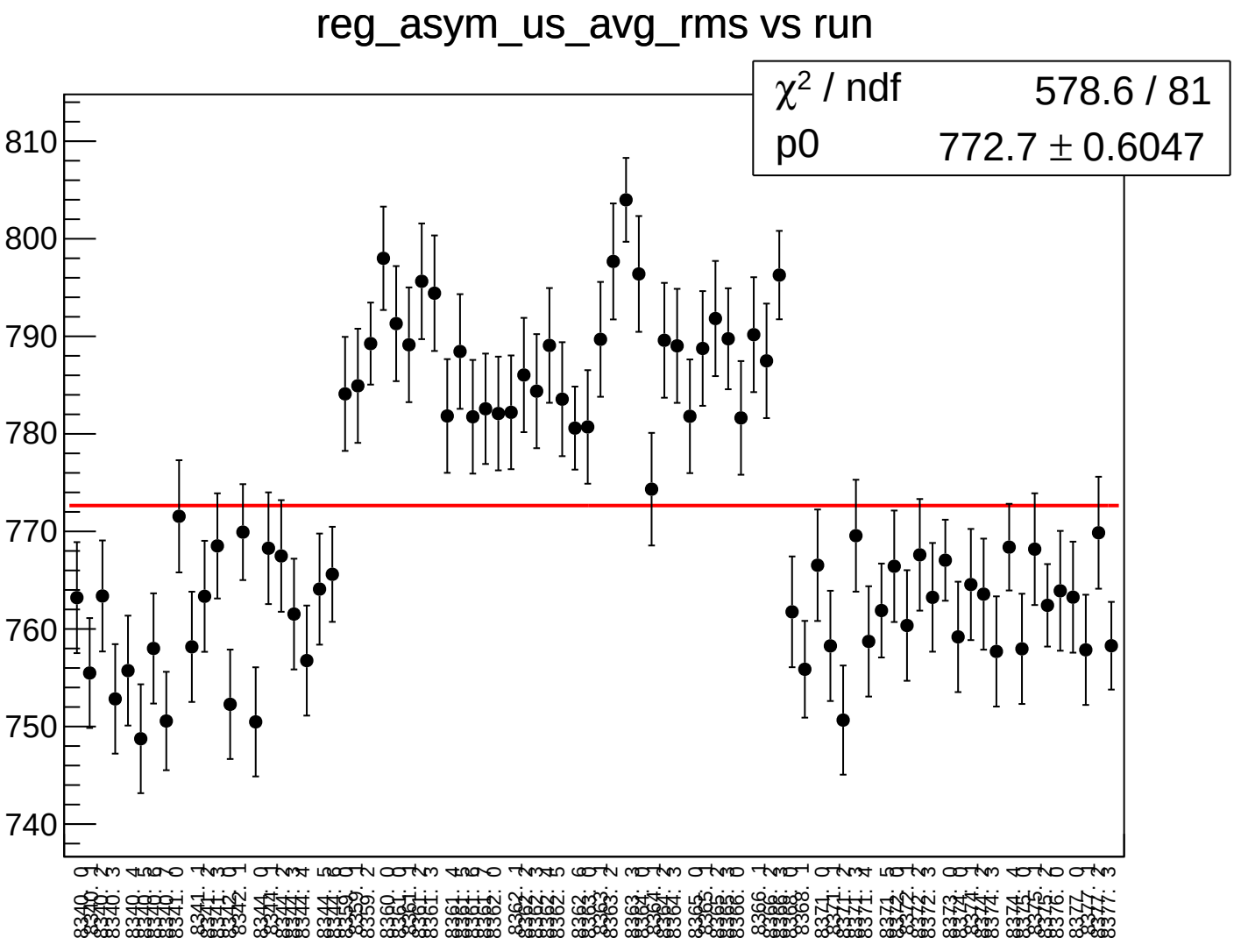
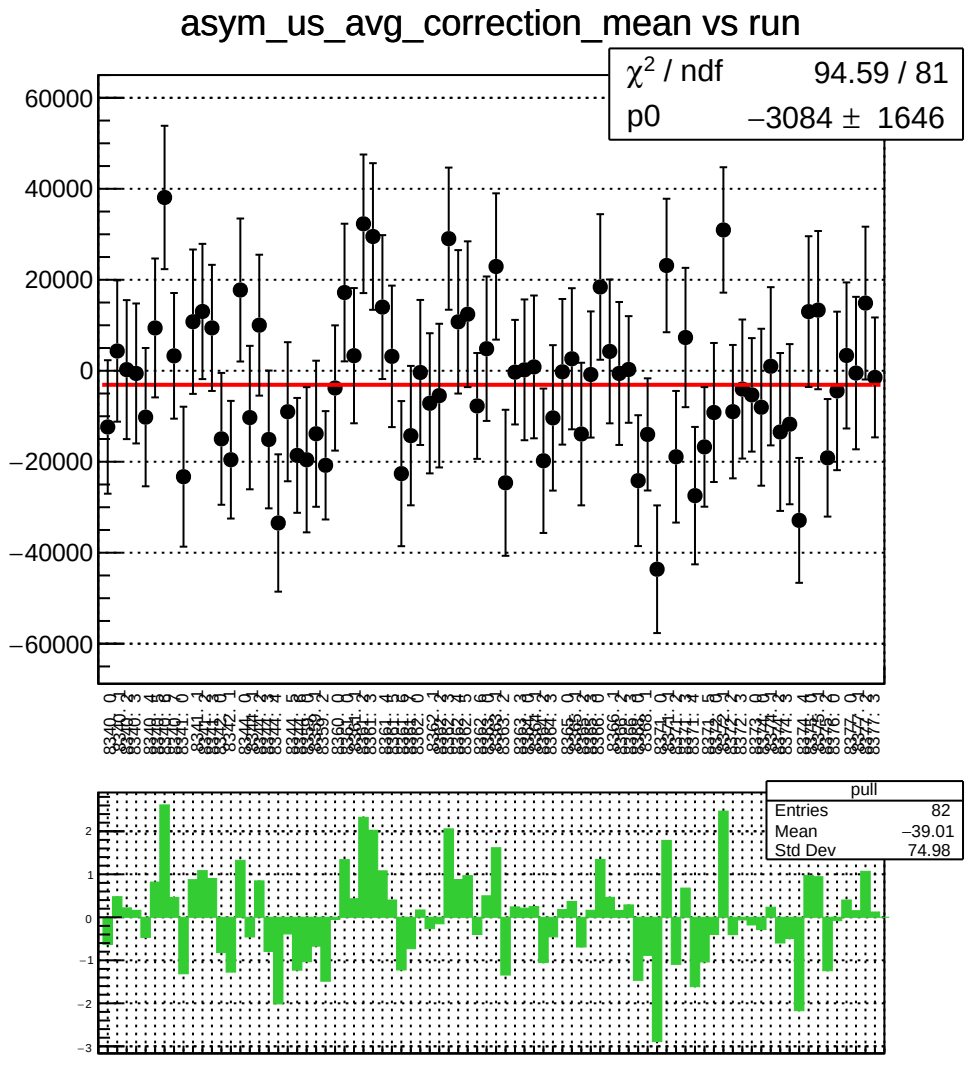
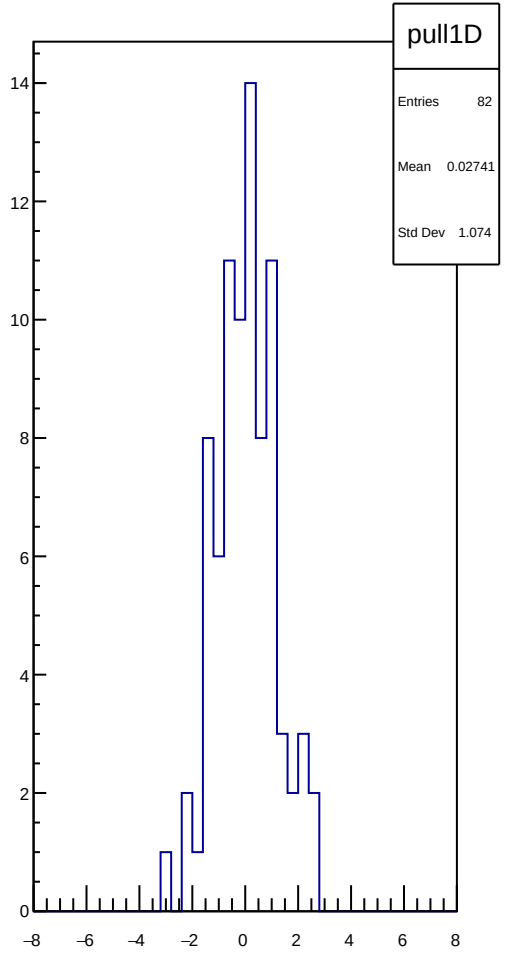
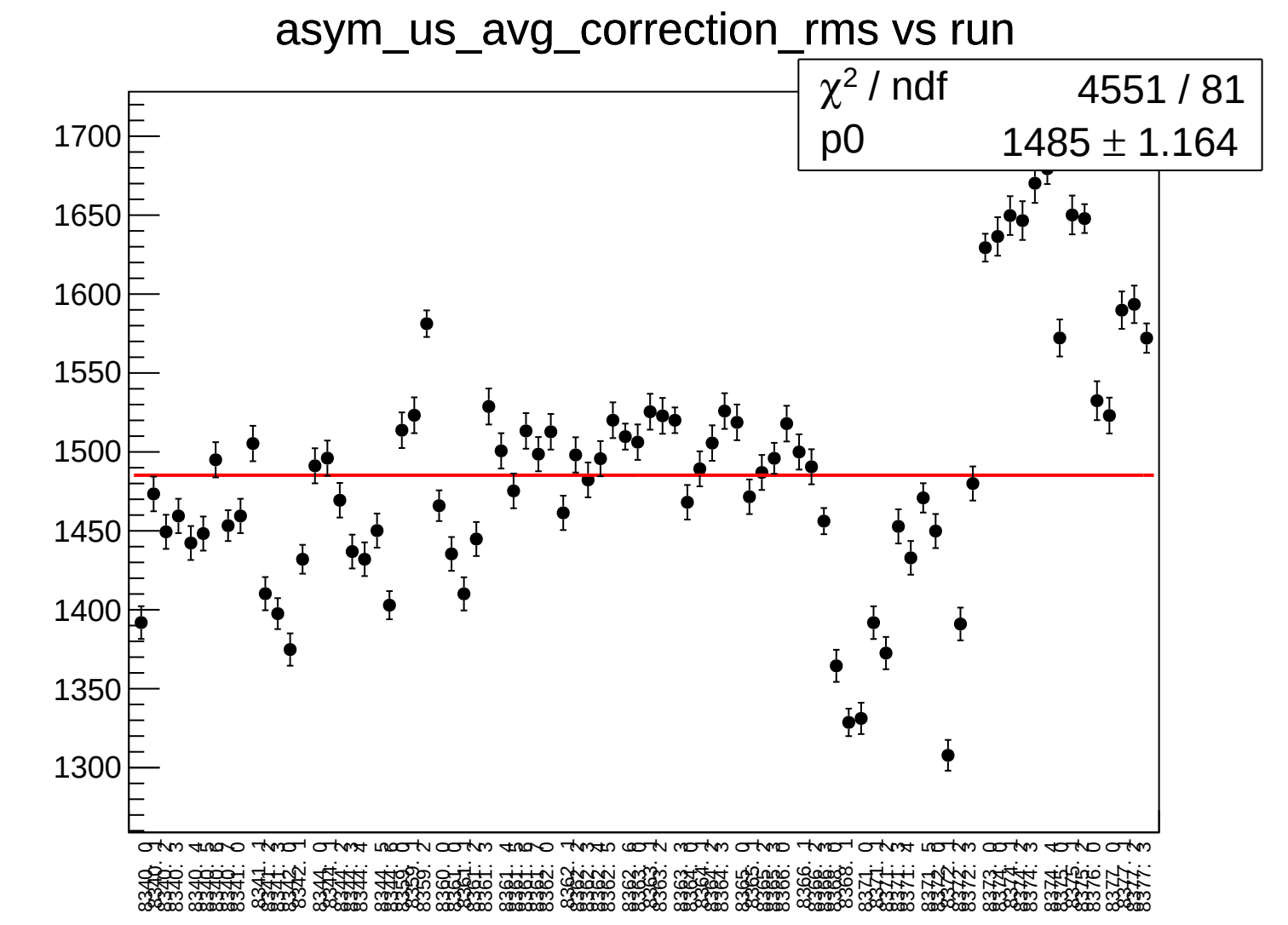

reg_asym_us_avg_mean vs run
χ² / ndf 56.62 / 81
p0 −2439 ± 855.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −353.4
Std Dev 403.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

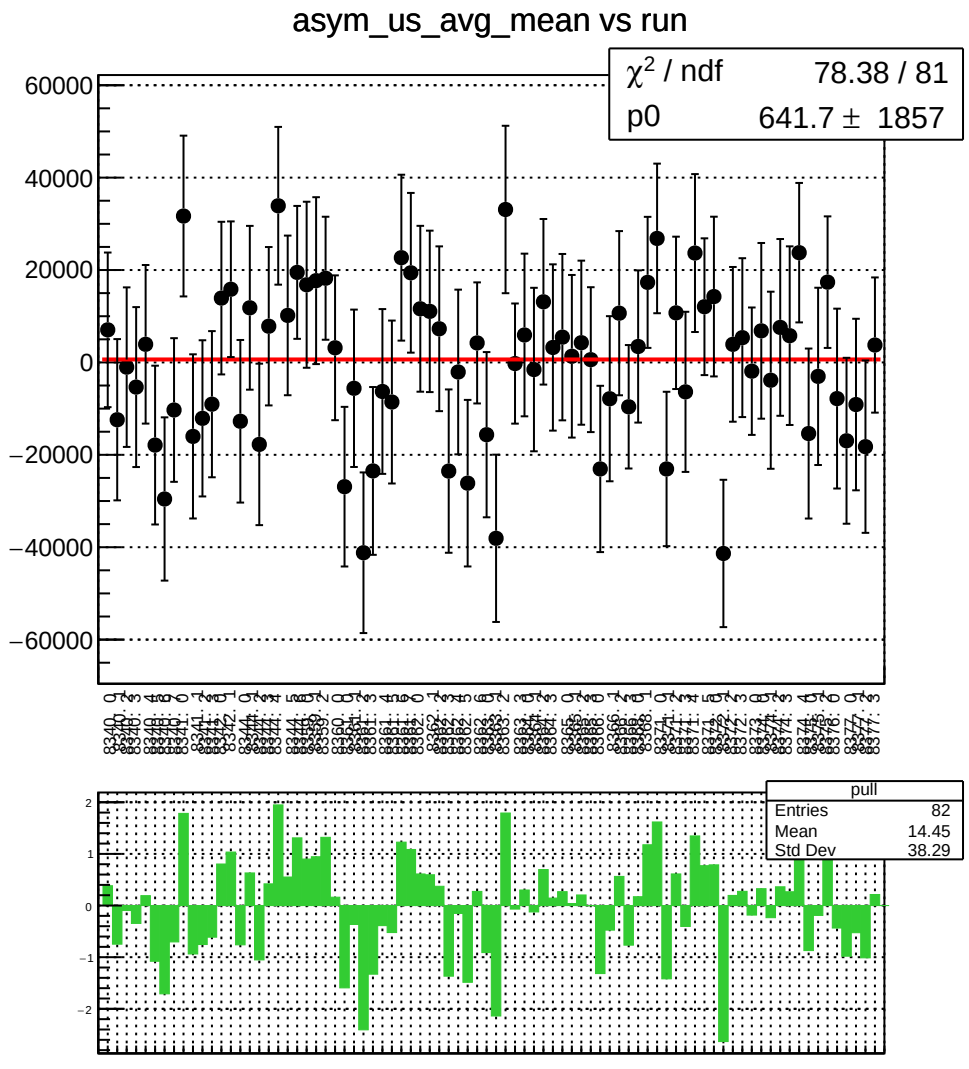

pull1D
Entries 82
Mean 0.007771
Std Dev 0.8309
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

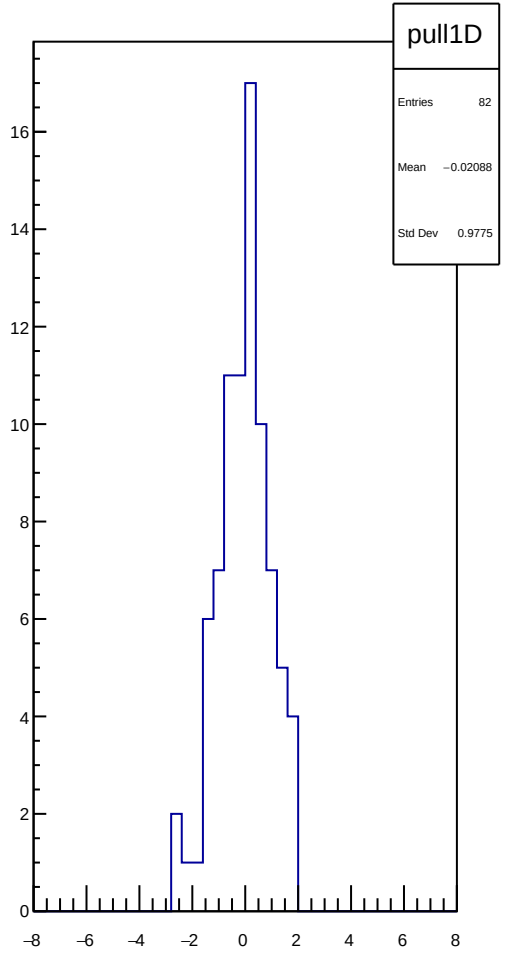

reg_asym_us_avg_rms vs run
χ^2 / ndf 578.6 / 81
p0 772.7 ± 0.6047
810
800
790
780
770
760
750
740

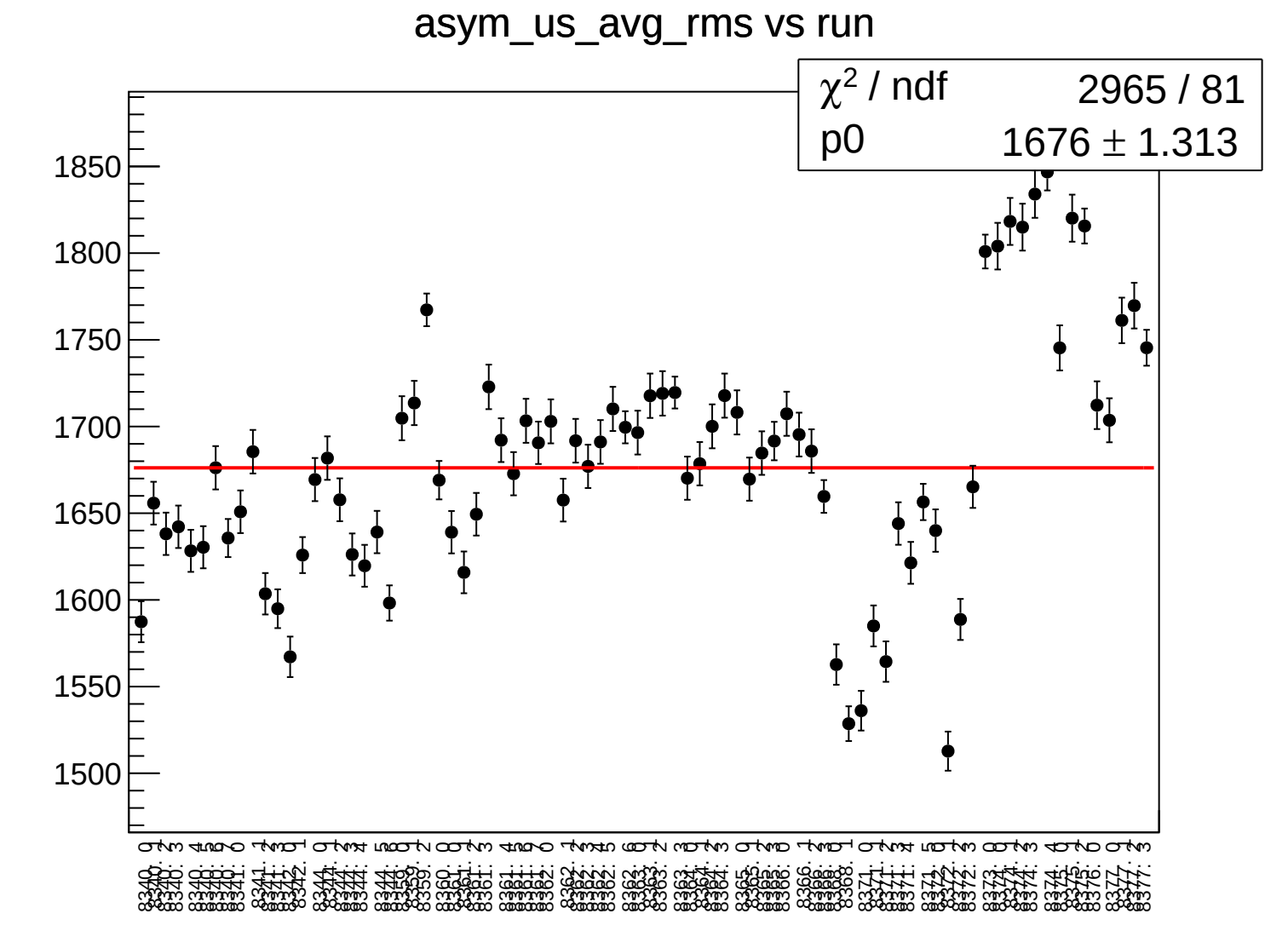

asym_us_avg_correction_mean vs run
χ² / ndf 94.59 / 81
p0 −3084 ± 1646
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −39.01
Std Dev 74.98
2
1
0
−1
−2
−3

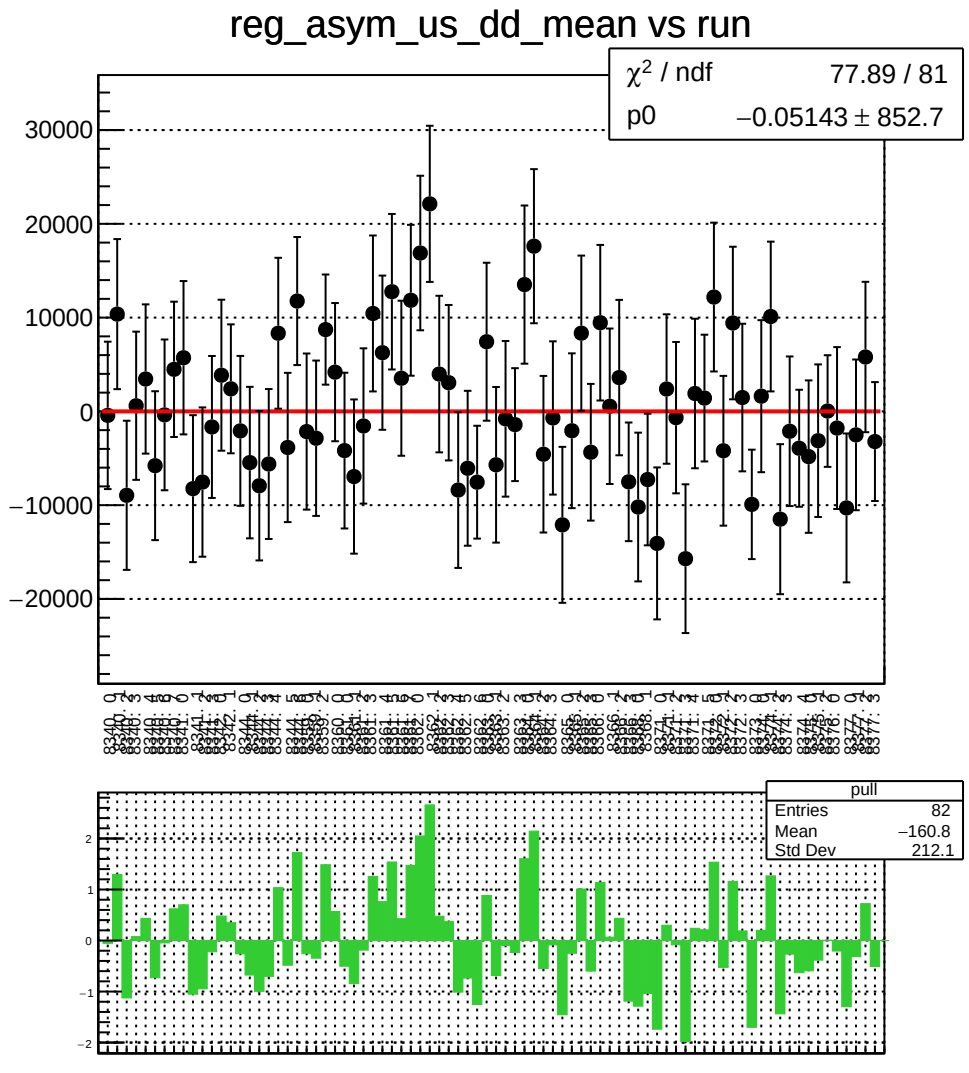

pull1D
Entries 82
Mean 0.02741
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

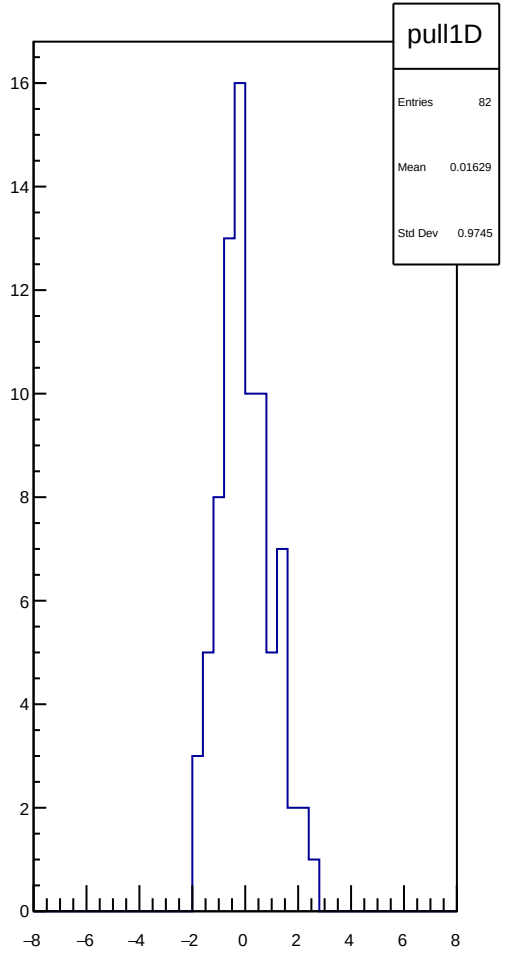

asym_us_avg_correction_rms vs run
χ² / ndf 4551 / 81
p0 1485 ± 1.164
1700
1650
1600
1550
1500
1450
1400
1350
1300

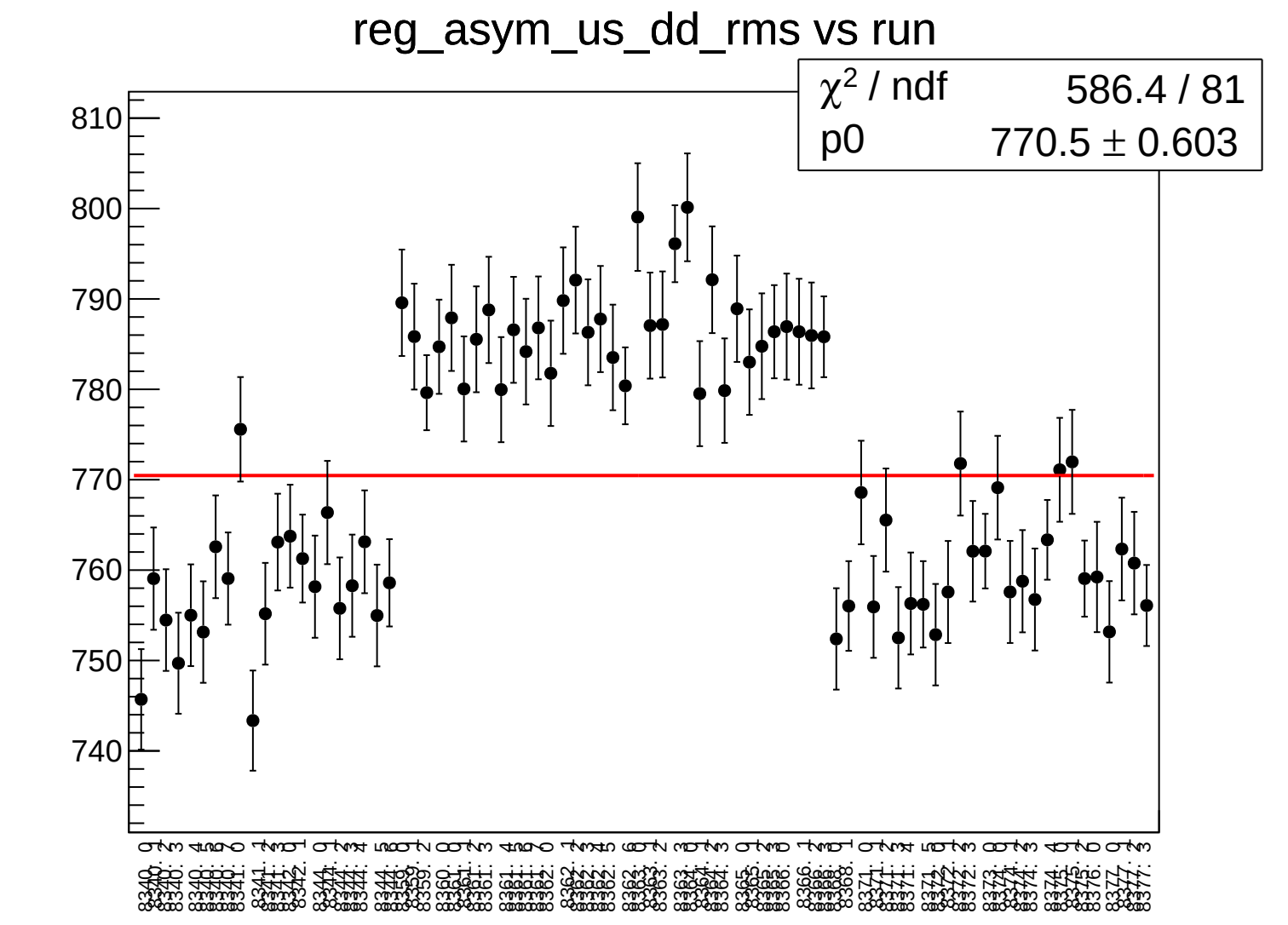

asym_us_avg_mean vs run
χ² / ndf 78.38 / 81
p0 641.7 ± 1857
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 14.45
Std Dev 38.29
2
1
0
−1
−2

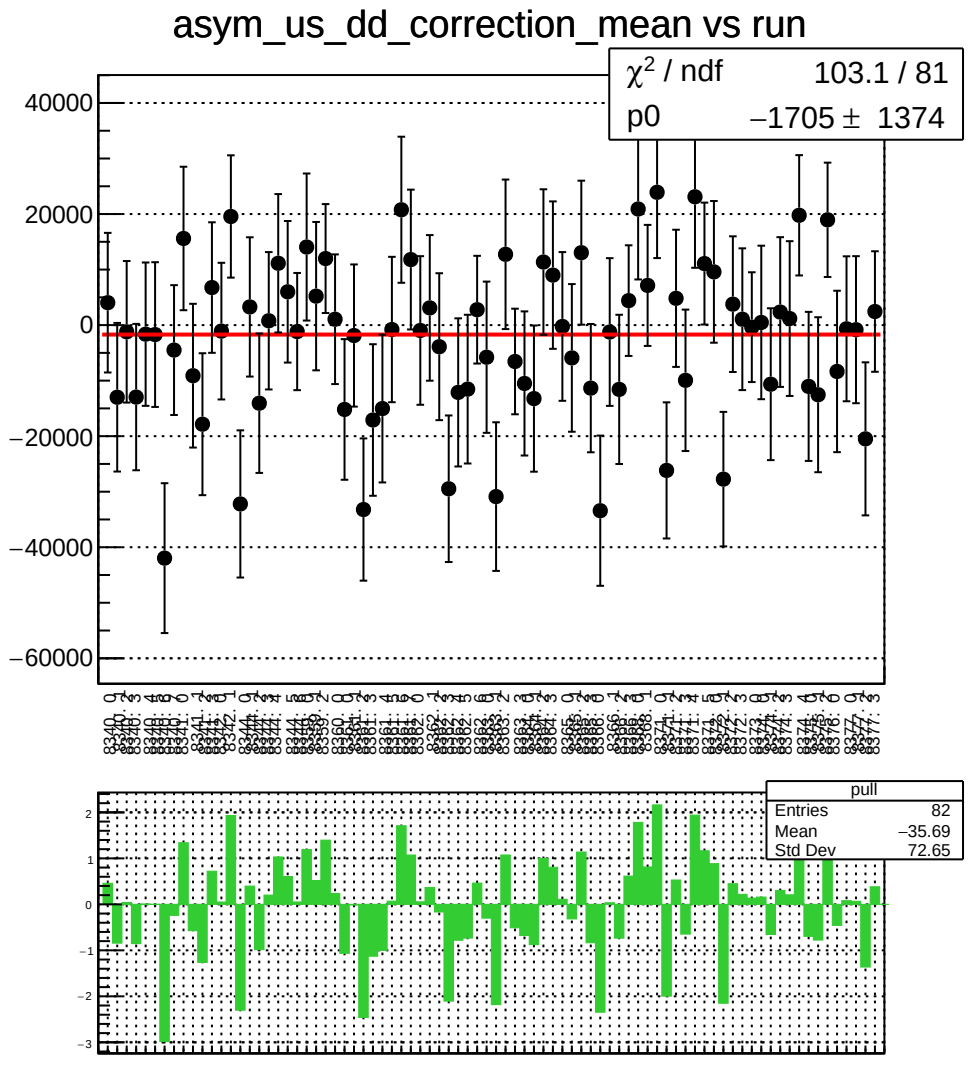

pull1D
Entries 82
Mean −0.02088
Std Dev 0.9775
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

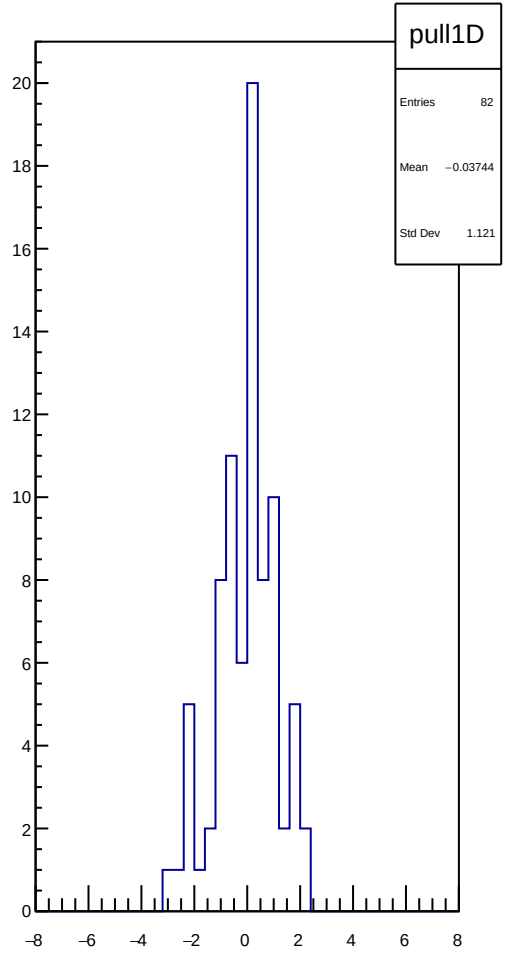

asym_us_avg_rms vs run
χ² / ndf 2965 / 81
p0 1676 ± 1.313
1850
1800
1750
1700
1650
1600
1550
1500

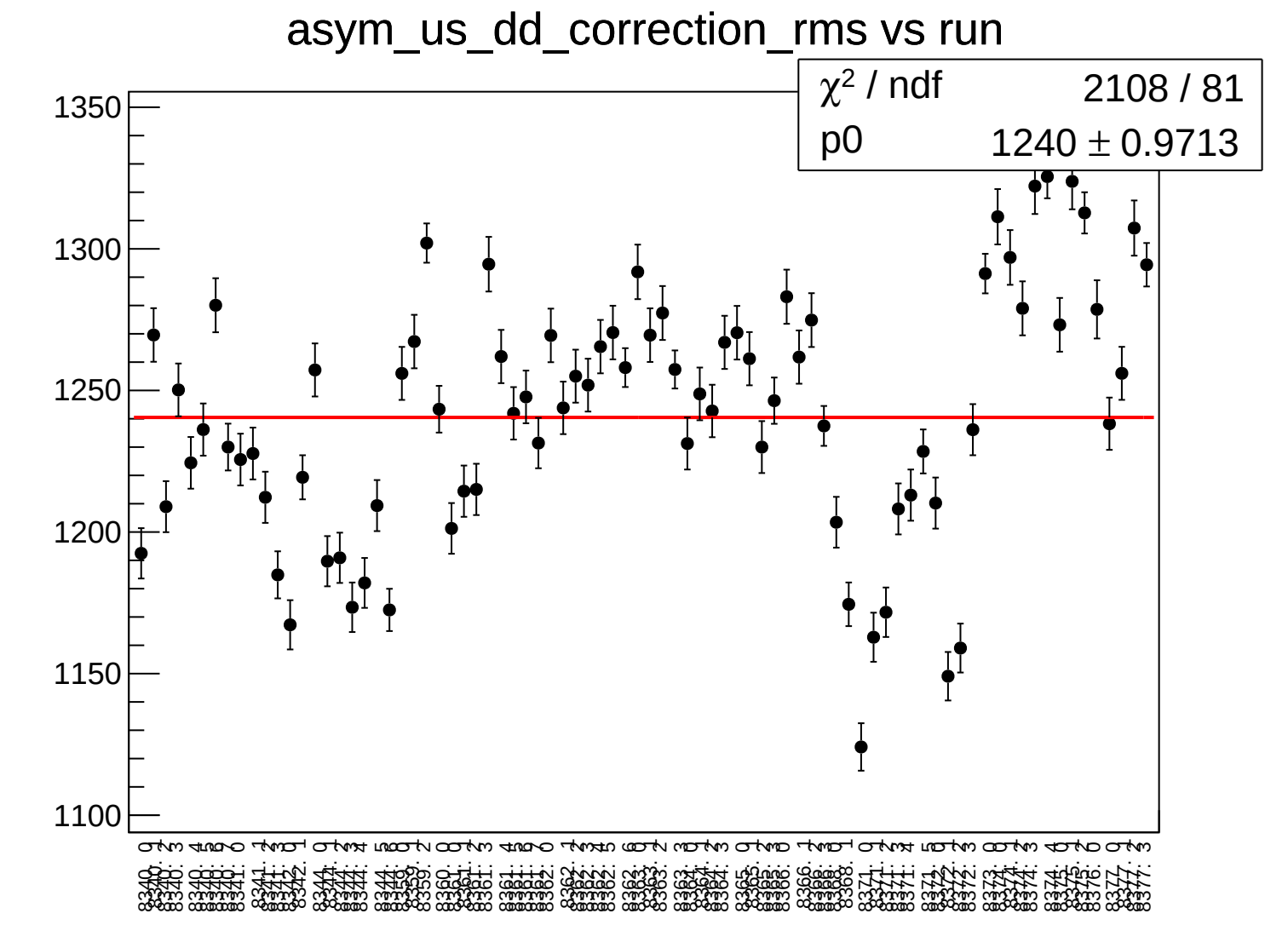

reg_asym_us_dd_mean vs run
χ² / ndf 77.89 / 81
p0 −0.05143 ± 852.7
30000
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −160.8
Std Dev 212.1
2
1
0
−1
−2

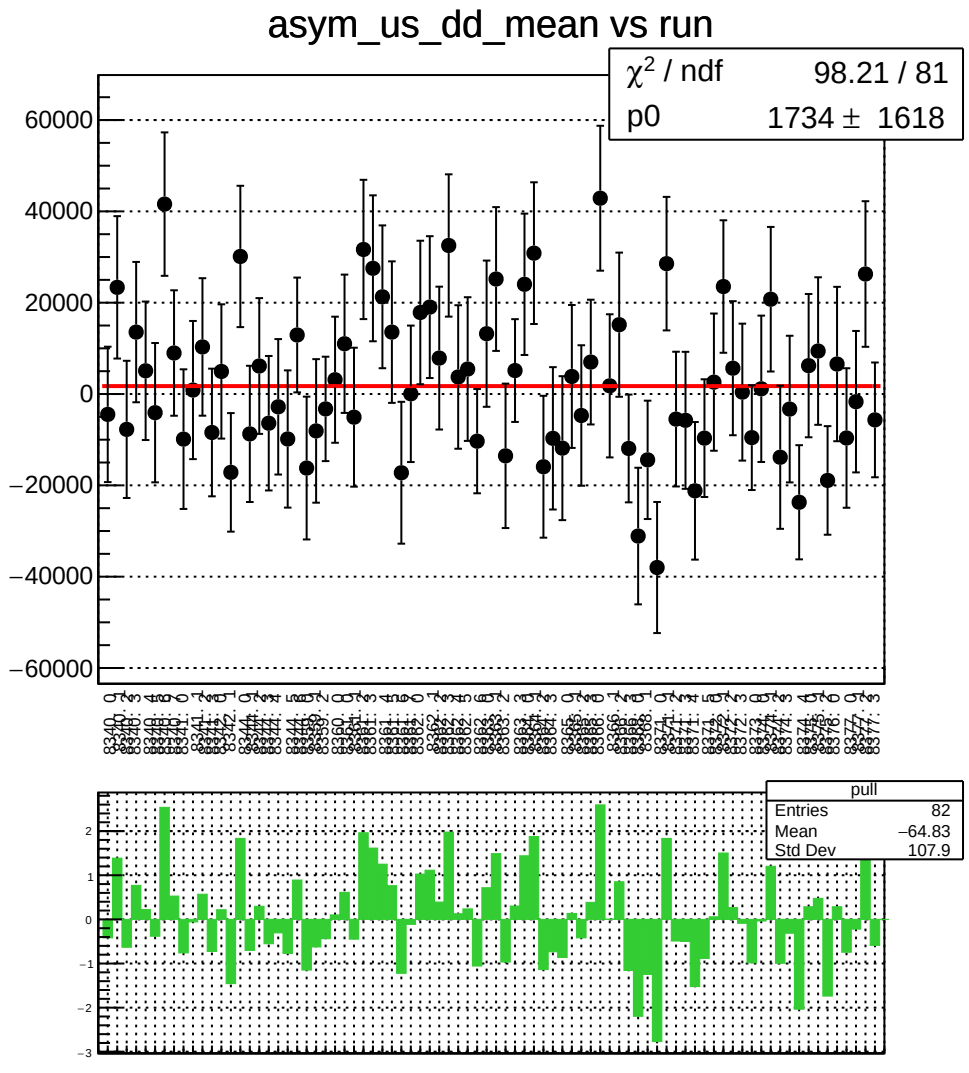

pull1D
Entries 82
Mean 0.01629
Std Dev 0.9745
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

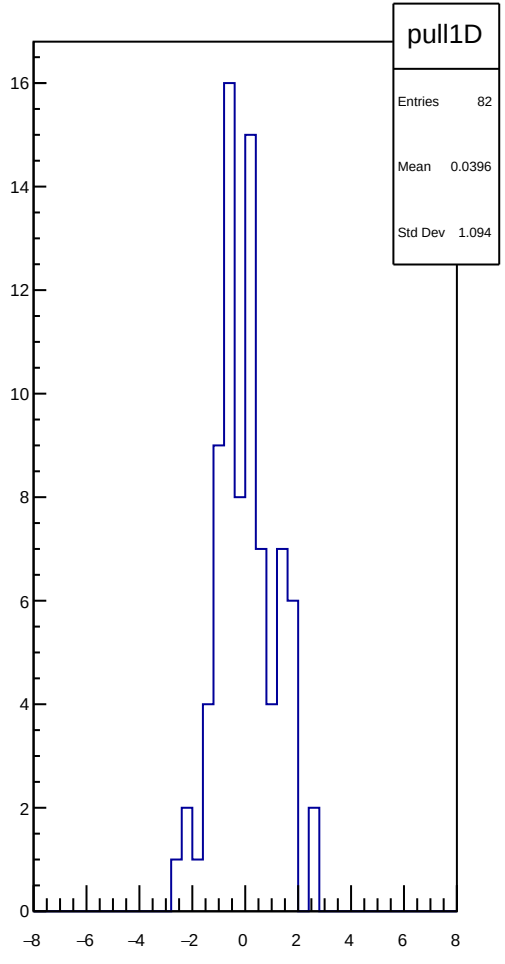

reg_asym_us_dd_rms vs run
χ² / ndf 586.4 / 81
p0 770.5 ± 0.603
810
800
790
780
770
760
750
740

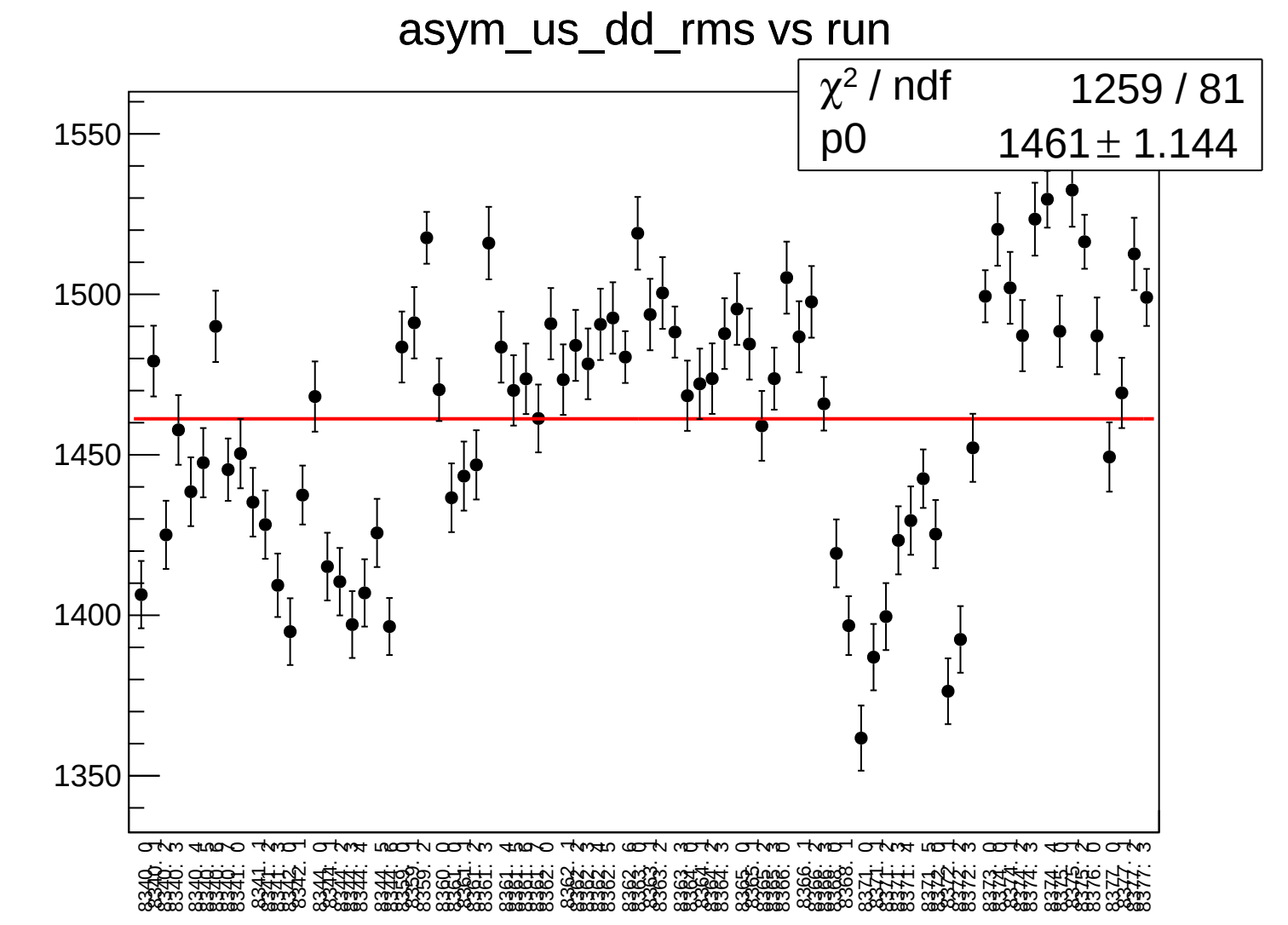

asym_us_dd_correction_mean vs run
χ² / ndf 103.1 / 81
p0 −1705 ± 1374
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −35.69
Std Dev 72.65
2
1
0
−1
−2
−3

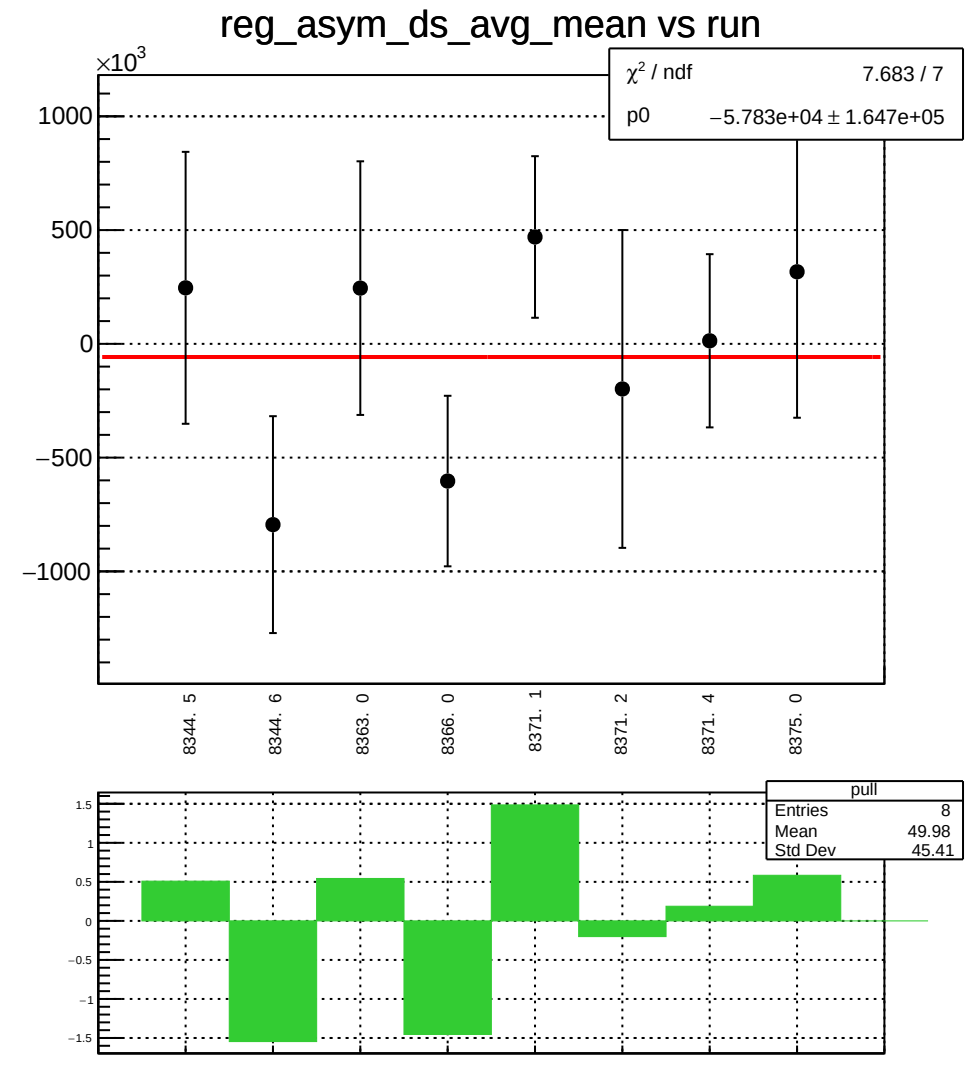

pull1D
Entries 82
Mean −0.03744
Std Dev 1.121
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

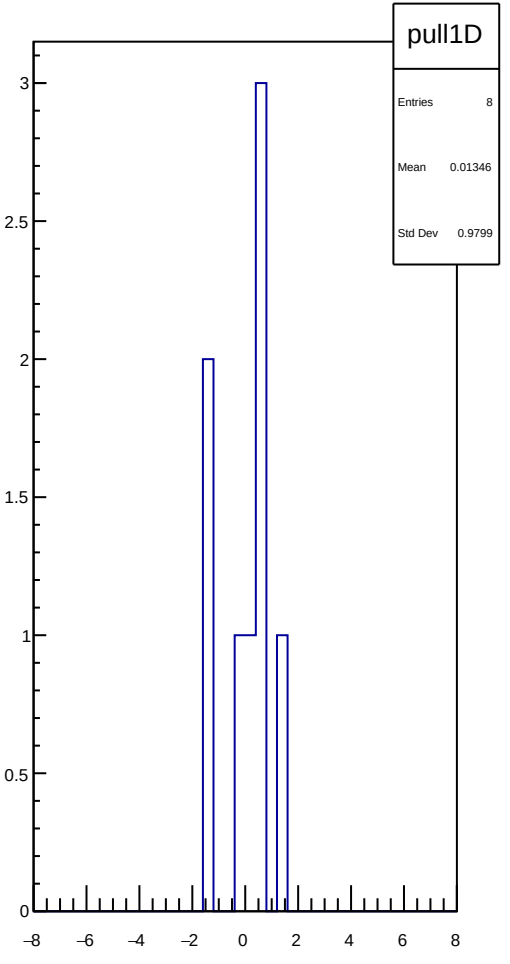

asym_us_dd_correction_rms vs run
χ² / ndf 2108 / 81
p0 1240 ± 0.9713
1350
1300
1250
1200
1150
1100

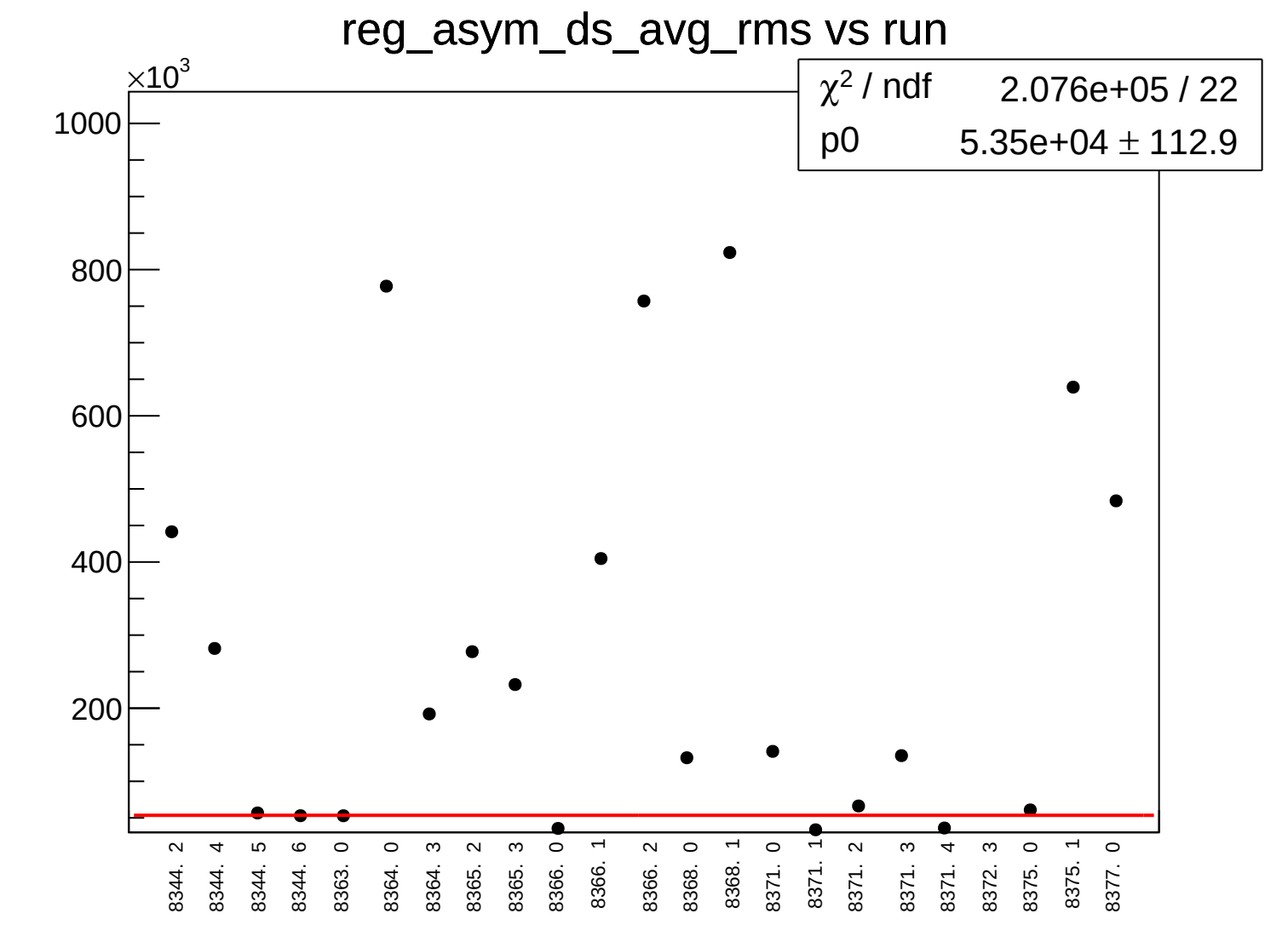

asym_us_dd_mean vs run
χ^2 / ndf 98.21 / 81
p0 1734 ± 1618
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −64.83
Std Dev 107.9
2
1
0
−1
−2
−3

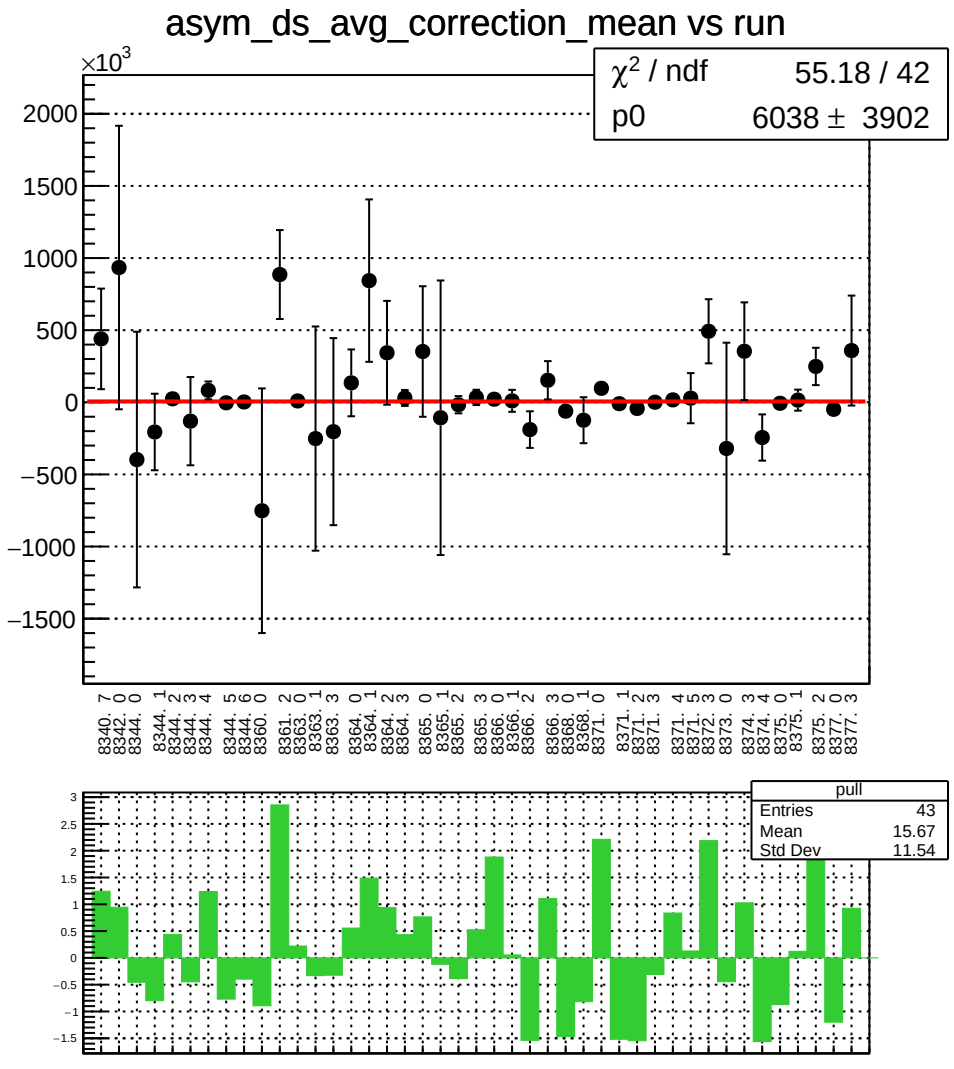

pull1D
Entries 82
Mean 0.0396
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

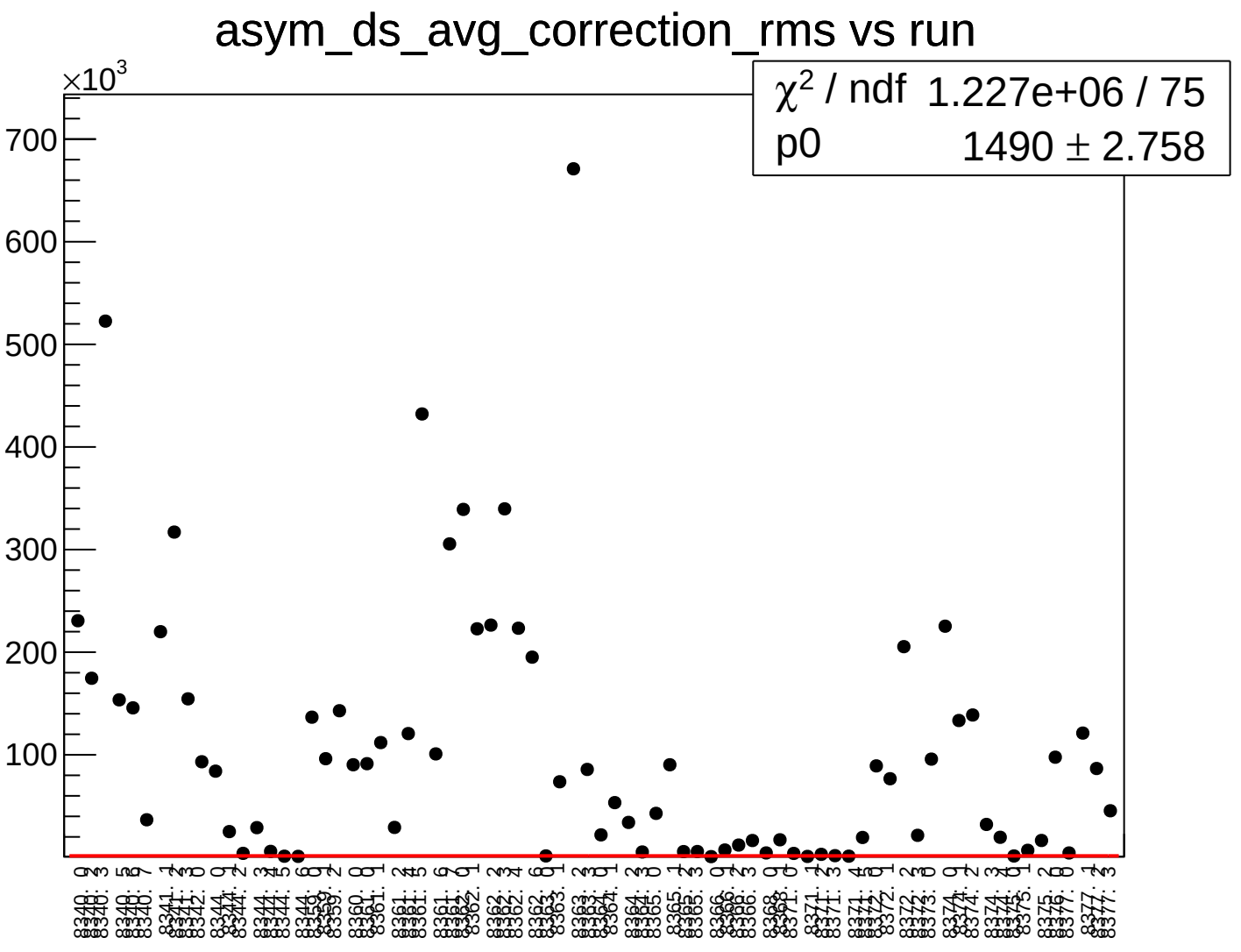

asym_us_dd_rms vs run
χ² / ndf 1259 / 81
p0 1461 ± 1.144
1550
1500
1450
1400
1350

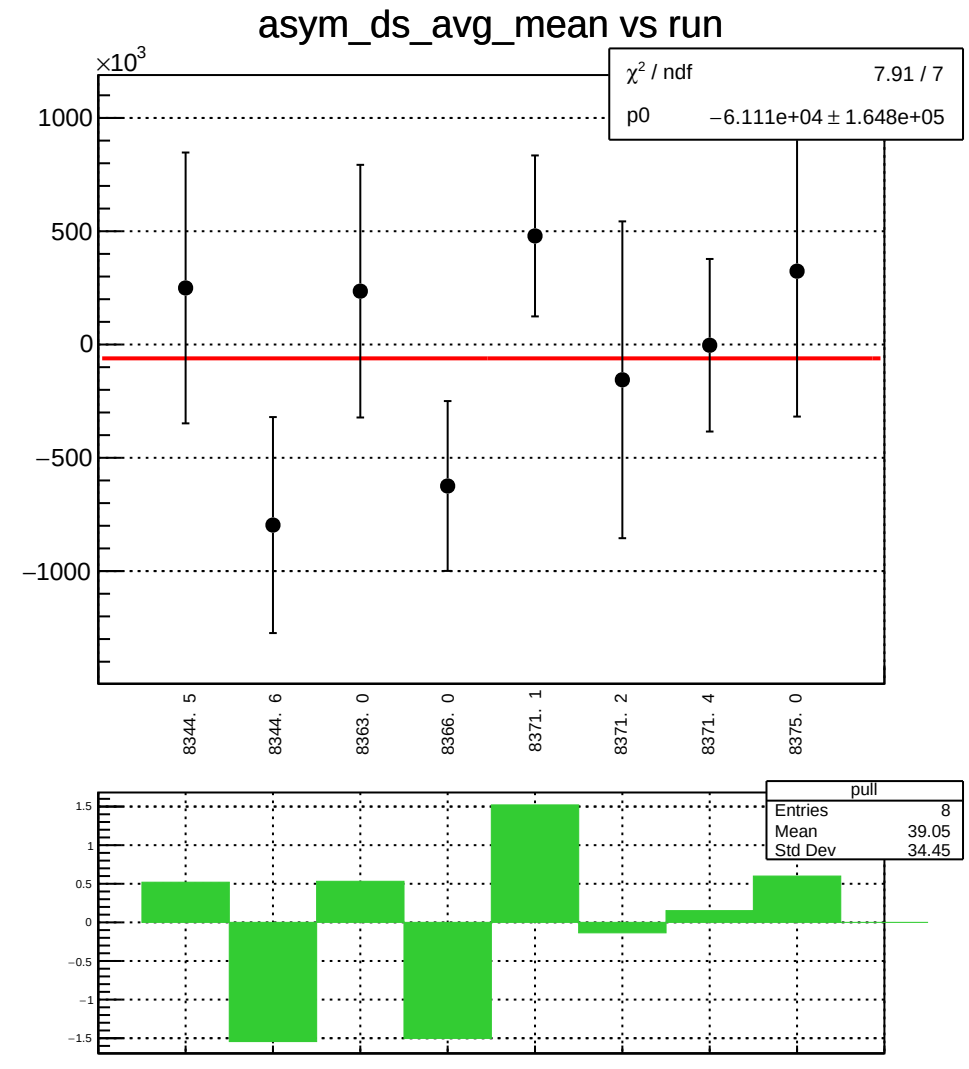

reg_asym_ds_avg_mean vs run
×10^3
1000
500
0
−500
−1000
χ² / ndf 7.683 / 7
p0 −5.783e+04 ± 1.647e+05
8344. 5
8344. 6
8363. 0
8366. 0
8371. 1
8371. 2
8371. 4
8375. 0
pull
Entries 8
Mean 49.98
Std Dev 45.41
1.5
1
0.5
0
−0.5
−1
−1.5

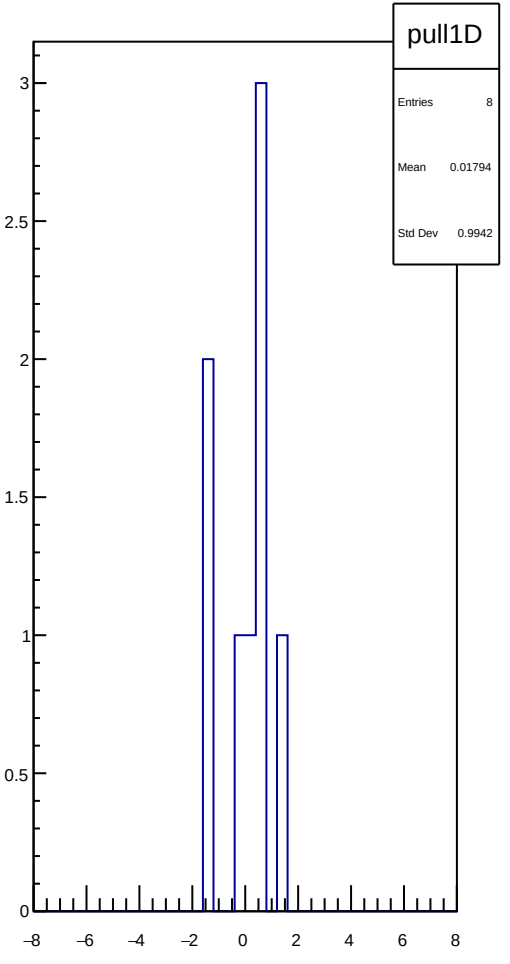

pull1D
Entries 8
Mean 0.01346
Std Dev 0.9799
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

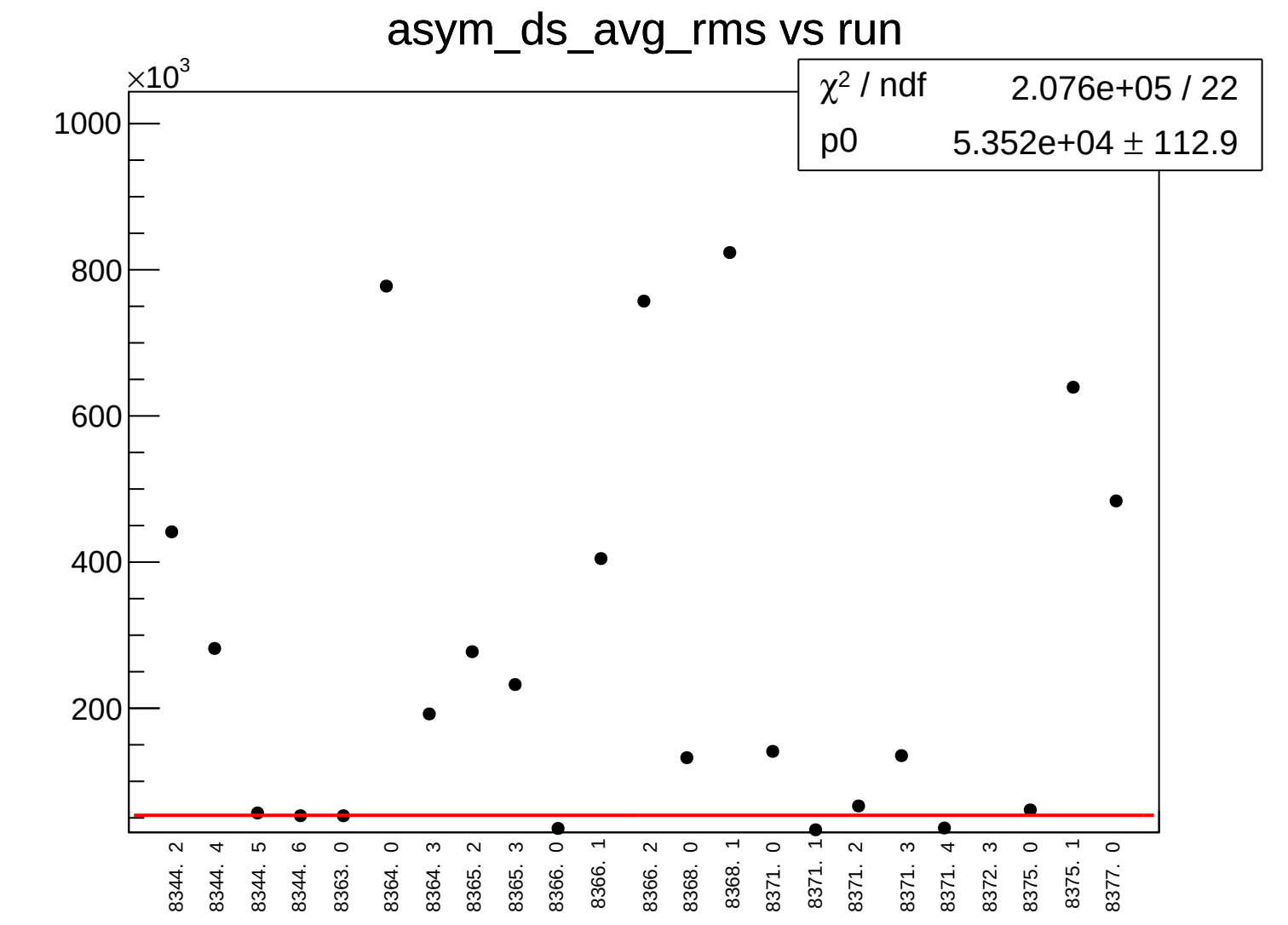

reg_asym_ds_avg_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 2.076e+05 / 22
p0 5.35e+04 ± 112.9
8344. 2
8344. 4
8344. 5
8344. 6
8363. 0
8364. 0
8364. 3
8365. 2
8365. 3
8366. 0
8366. 1
8366. 2
8368. 0
8368. 1
8371. 0
8371. 1
8371. 2
8371. 3
8371. 4
8372. 3
8375. 0
8375. 1
8377. 0

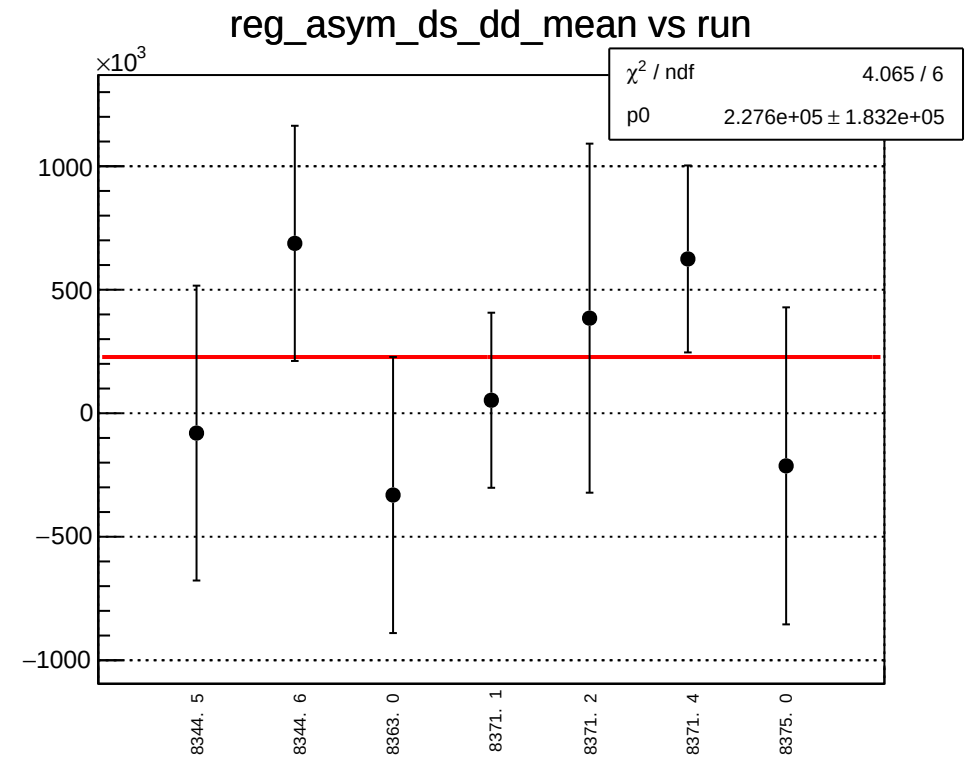

asym_ds_avg_correction_mean vs run
×10^3
χ^2 / ndf 55.18 / 42
p0 6038 ± 3902
2000
1500
1000
500
0
−500
−1000
−1500
8340. 7
8342. 0
8344. 0
8344. 1
8344. 2
8344. 3
8344. 4
8344. 5
8344. 6
8360. 0
8361. 2
8363. 0
8363. 1
8363. 3
8364. 0
8364. 1
8364. 2
8364. 3
8365. 0
8365. 1
8365. 2
8365. 3
8366. 0
8366. 1
8366. 2
8366. 3
8368. 0
8368. 1
8371. 0
8371. 1
8371. 2
8371. 3
8371. 4
8371. 5
8372. 3
8373. 0
8374. 3
8374. 4
8375. 0
8375. 1
8375. 2
8377. 0
8377. 3
pull
Entries 43
Mean 15.67
Std Dev 11.54
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.1815
Std Dev 1.118
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

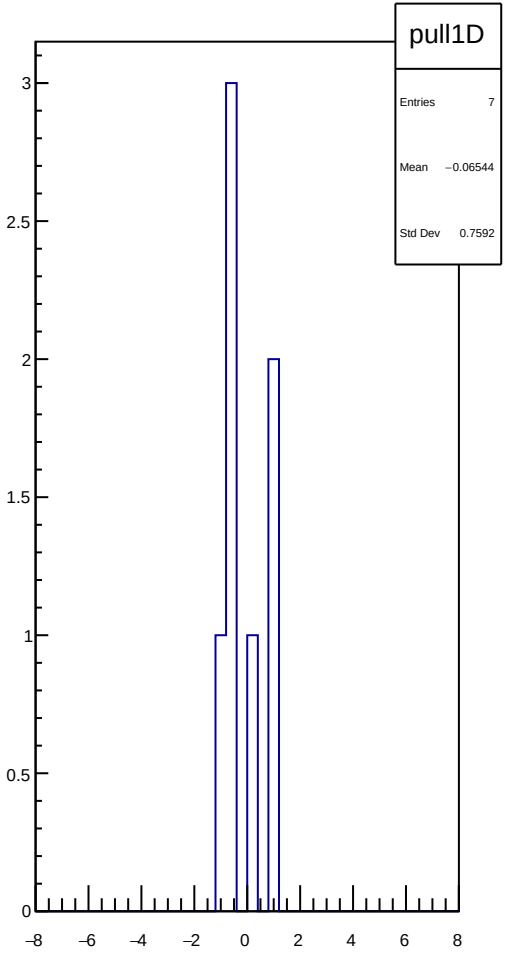

asym_ds_avg_correction_rms vs run
×10^3
χ^2 / ndf 1.227e+06 / 75
p0 1490 ± 2.758
700
600
500
400
300
200
100

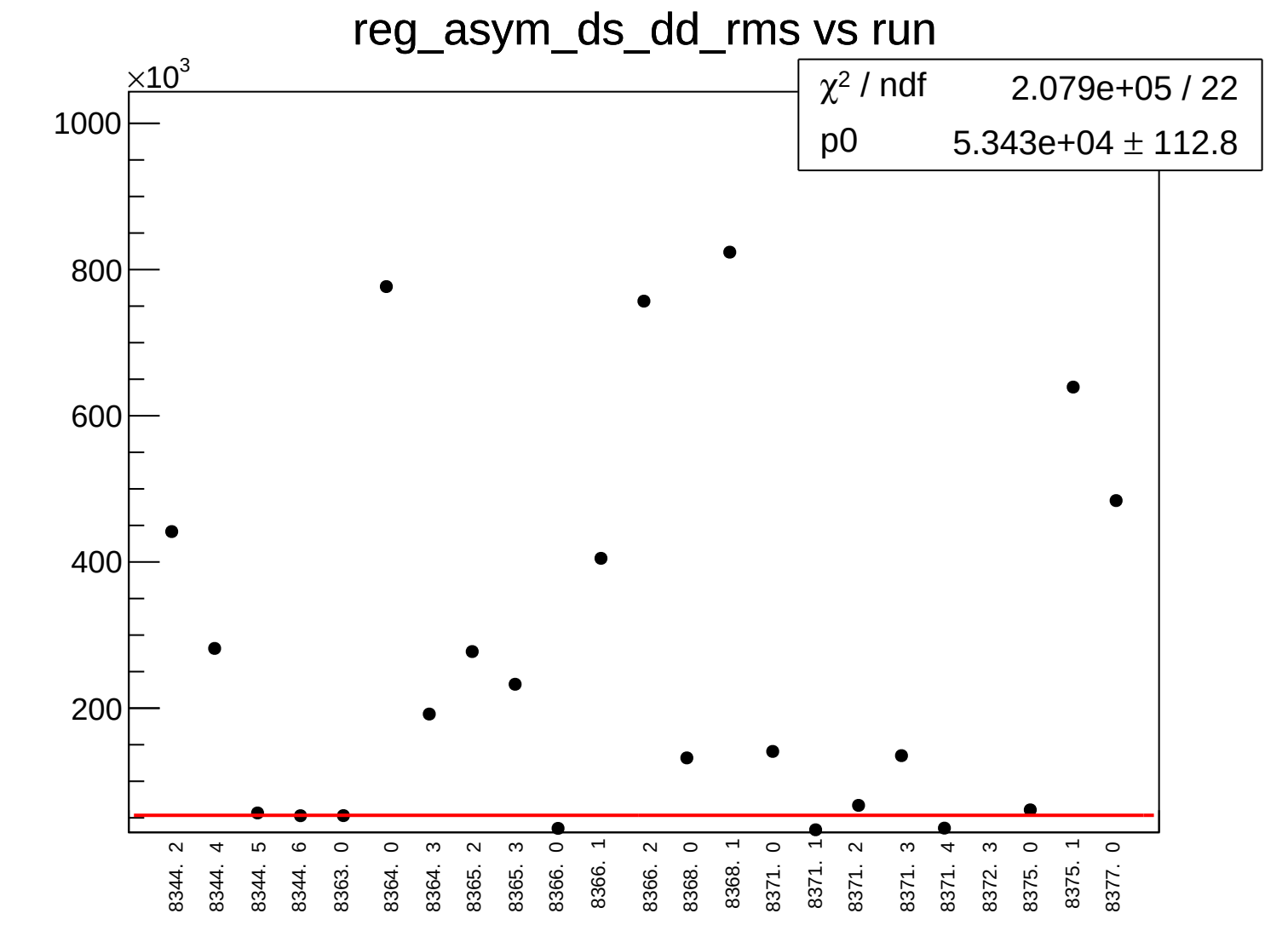

asym_ds_avg_mean vs run
×10^3
χ² / ndf 7.91 / 7
p0 −6.111e+04 ± 1.648e+05
1000
500
0
−500
−1000
8344. 5
8344. 6
8363. 0
8366. 0
8371. 1
8371. 2
8371. 4
8375. 0
pull
Entries 8
Mean 39.05
Std Dev 34.45
1.5
1
0.5
0
−0.5
−1
−1.5

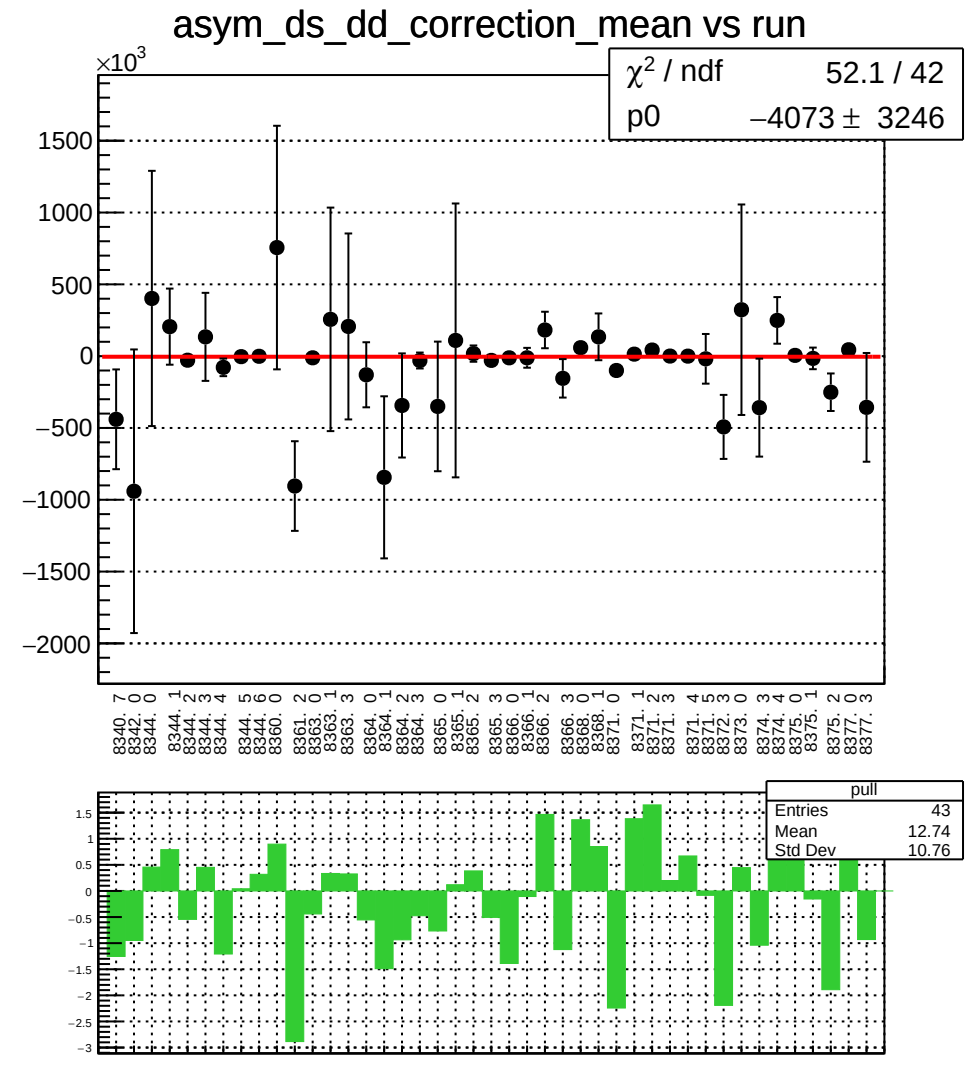

pull1D
Entries 8
Mean 0.01794
Std Dev 0.9942
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

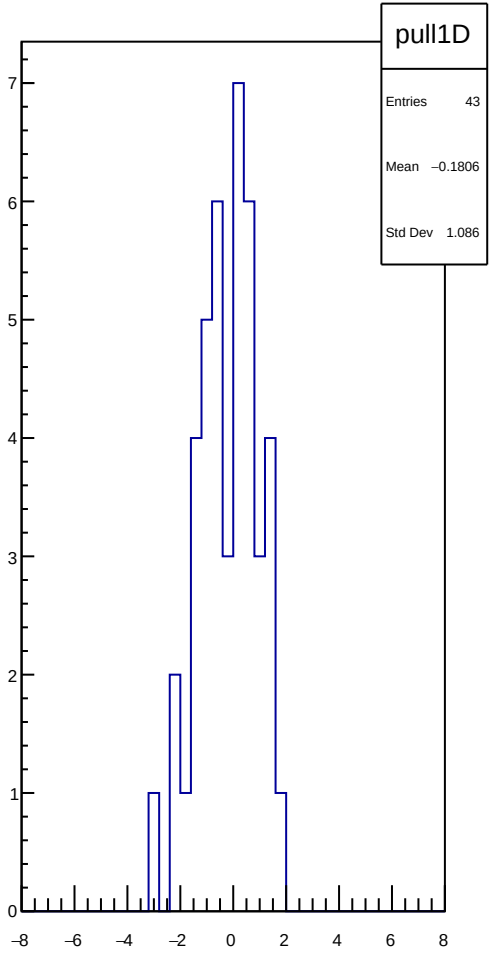

asym_ds_avg_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 2.076e+05 / 22
p0 5.352e+04 ± 112.9
8344. 2
8344. 4
8344. 5
8344. 6
8363. 0
8364. 0
8364. 3
8365. 2
8365. 3
8366. 0
8366. 1
8366. 2
8368. 0
8368. 1
8371. 0
8371. 1
8371. 2
8371. 3
8371. 4
8372. 3
8375. 0
8375. 1
8377. 0

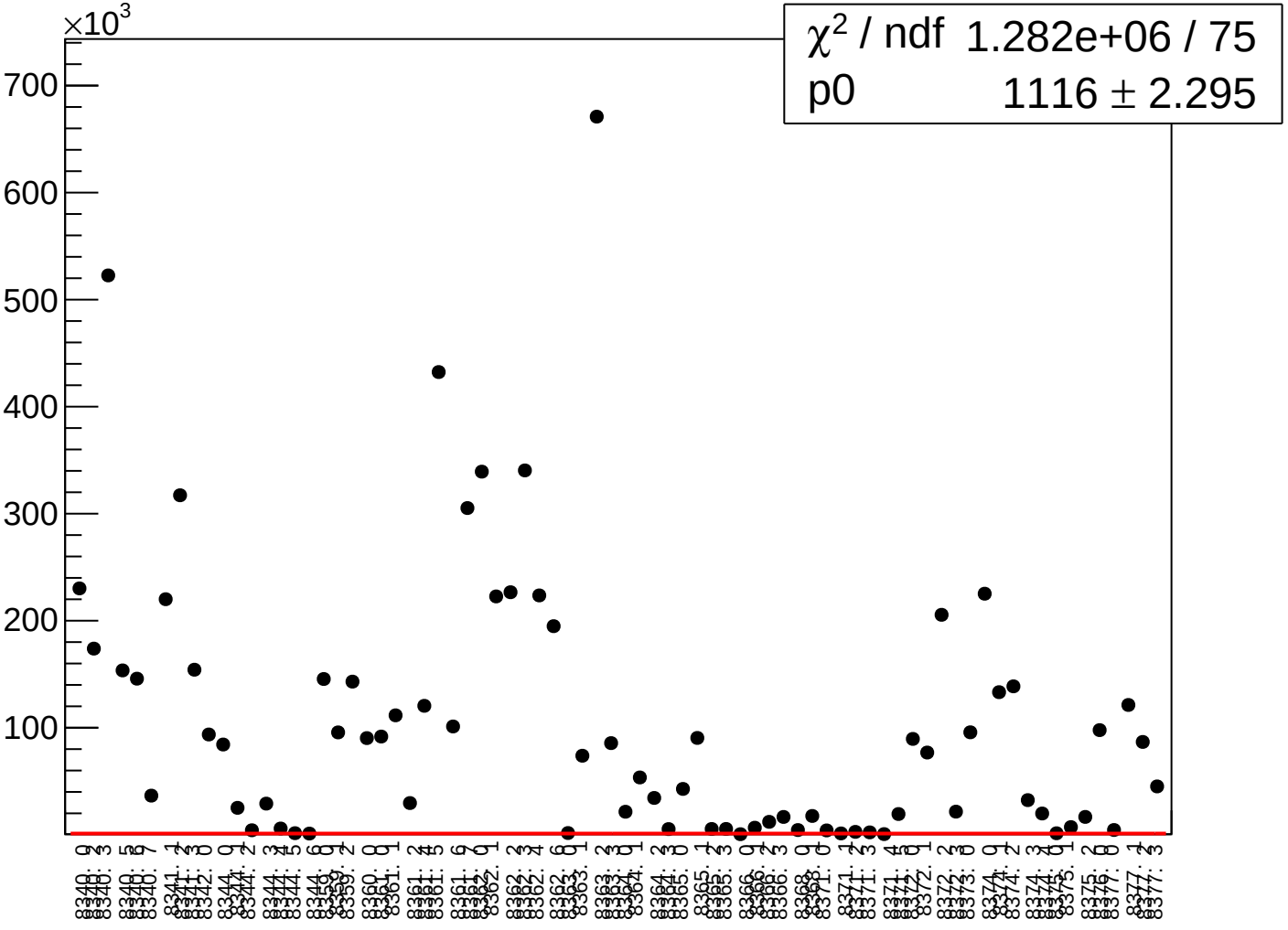

reg_asym_ds_dd_mean vs run
×10^3
χ² / ndf 4.065 / 6
p0 2.276e+05 ± 1.832e+05
1000
500
0
−500
−1000
8344. 5
8344. 6
8363. 0
8371. 1
8371. 2
8371. 4
8375. 0
pull
Entries 7
Mean 1.588
Std Dev 2.017
1
0.5
0
−0.5
−1

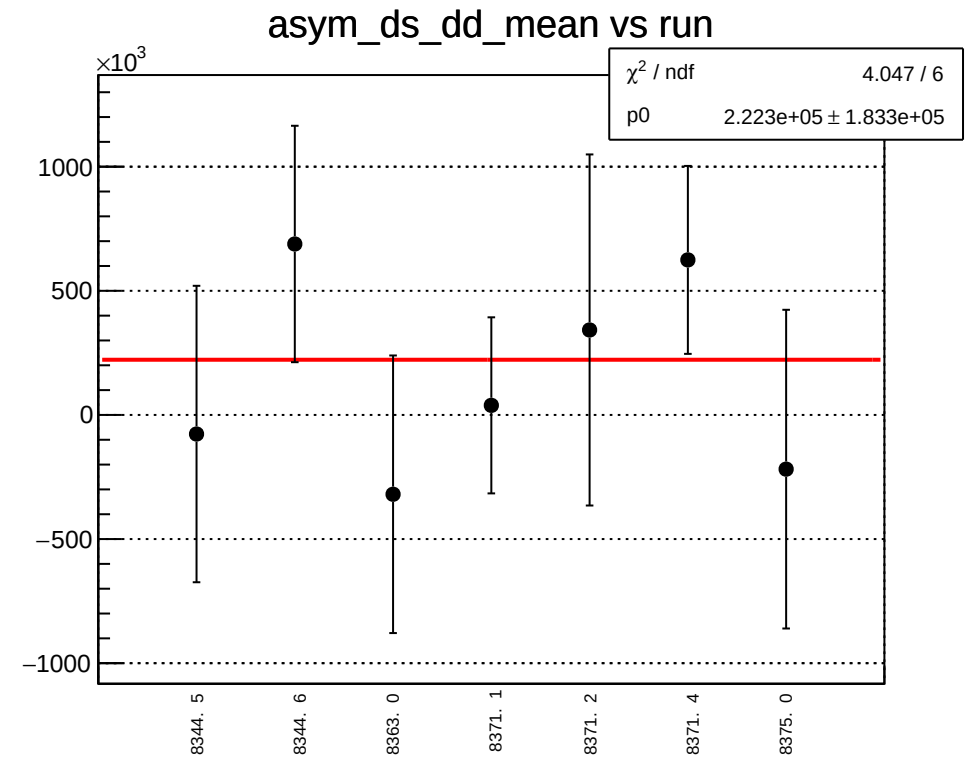

pull1D
Entries 7
Mean −0.06544
Std Dev 0.7592
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

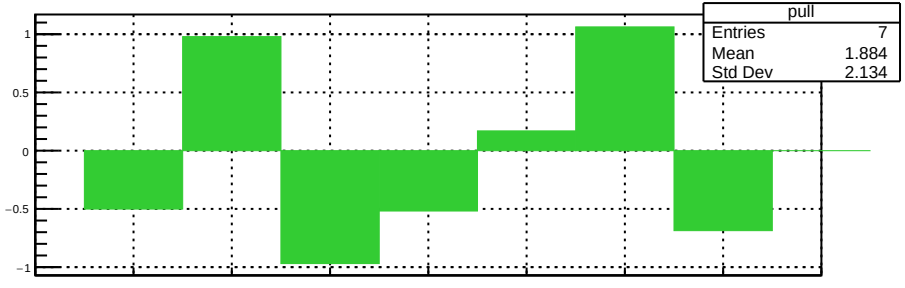

reg_asym_ds_dd_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 2.079e+05 / 22
p0 5.343e+04 ± 112.8
8344. 2
8344. 4
8344. 5
8344. 6
8363. 0
8364. 0
8364. 3
8365. 2
8365. 3
8366. 0
8366. 1
8366. 2
8368. 0
8368. 1
8371. 0
8371. 1
8371. 2
8371. 3
8371. 4
8372. 3
8375. 0
8375. 1
8377. 0

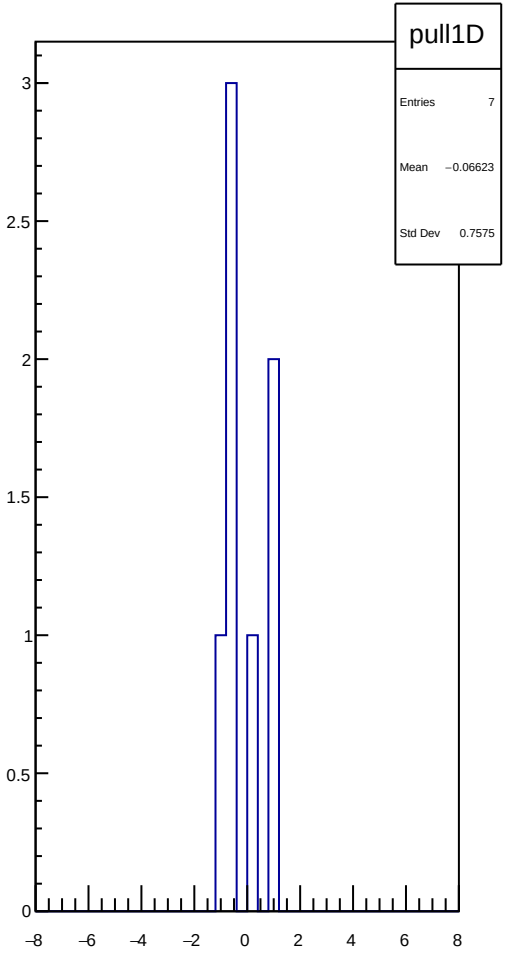

asym_ds_dd_correction_mean vs run
χ² / ndf 52.1 / 42
p0 −4073 ± 3246
×10³
1500
1000
500
0
−500
−1000
−1500
−2000
8340. 7
8342. 0
8344. 0
8344. 1
8344. 2
8344. 3
8344. 4
8344. 5
8344. 6
8360. 0
8361. 2
8363. 0
8363. 1
8363. 3
8364. 0
8364. 1
8364. 2
8364. 3
8365. 0
8365. 1
8365. 2
8365. 3
8366. 0
8366. 1
8366. 2
8366. 3
8368. 0
8368. 1
8371. 0
8371. 1
8371. 2
8371. 3
8371. 4
8371. 5
8372. 3
8373. 0
8374. 3
8374. 4
8375. 0
8375. 1
8375. 2
8377. 0
8377. 3
pull
Entries 43
Mean 12.74
Std Dev 10.76
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

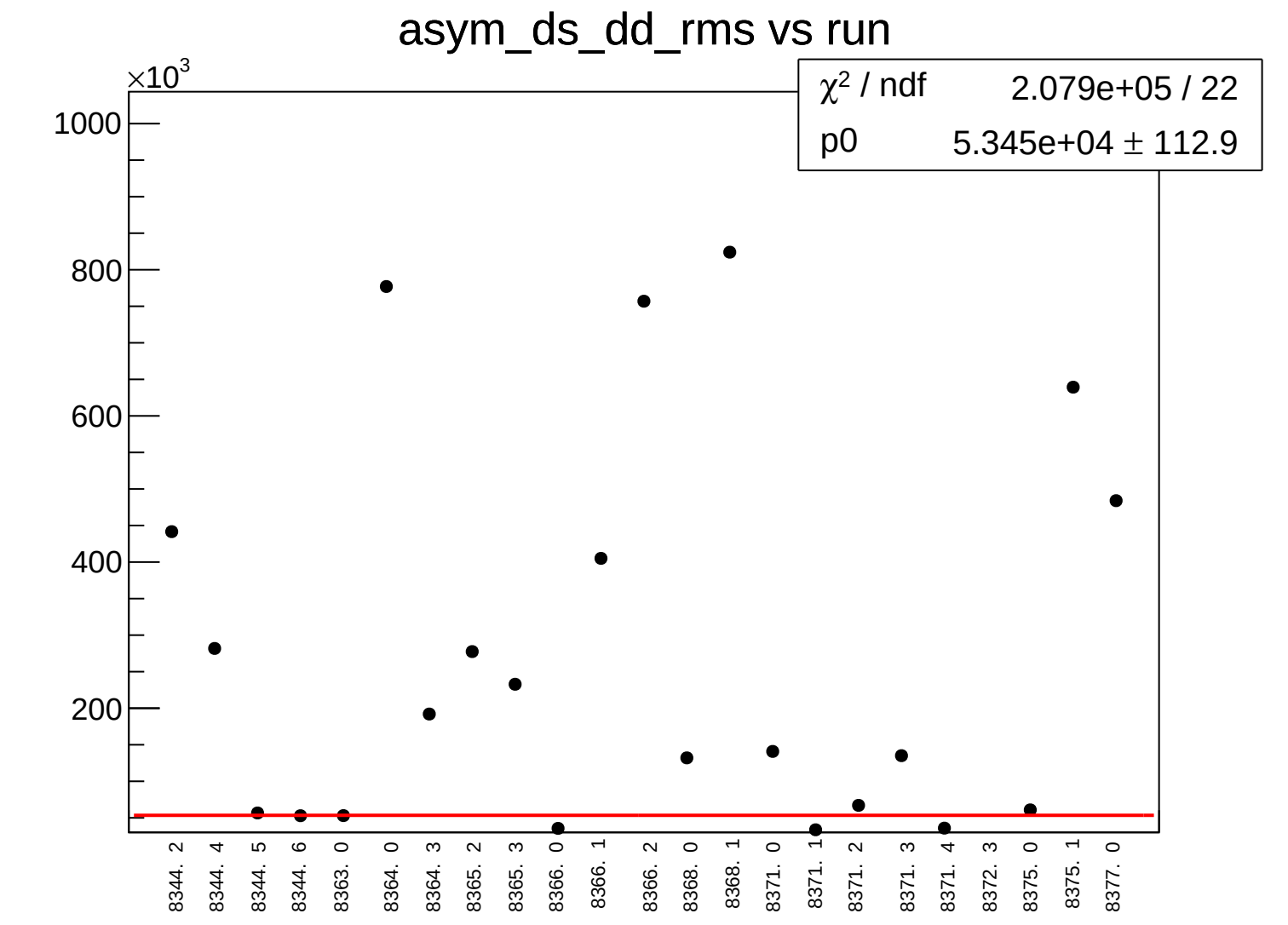

pull1D
Entries 43
Mean −0.1806
Std Dev 1.086
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

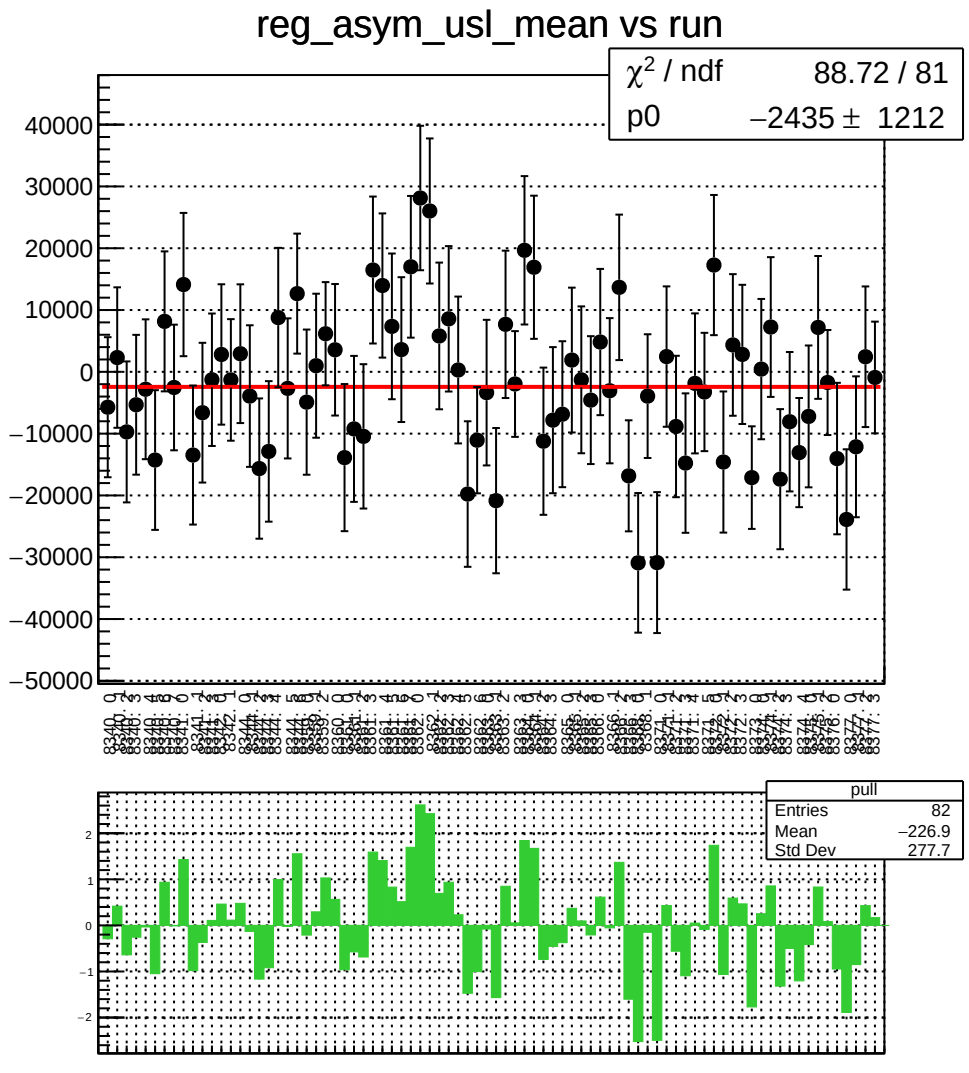

asym_ds_dd_correction_rms vs run
×10^3
700
600
500
400
300
200
100
χ² / ndf 1.282e+06 / 75
p0 1116 ± 2.295

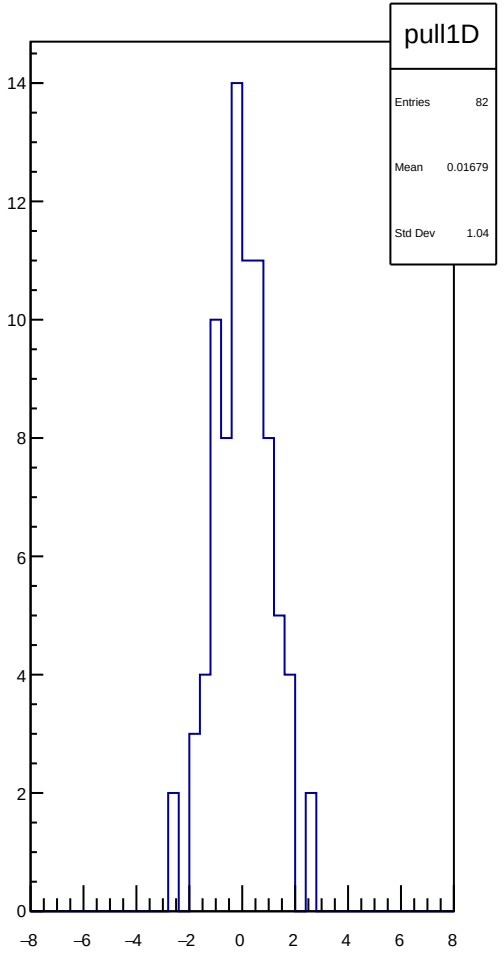

asym_ds_dd_mean vs run
×10^3
χ² / ndf 4.047 / 6
p0 2.223e+05 ± 1.833e+05
1000
500
0
−500
−1000
8344. 5
8344. 6
8363. 0
8371. 1
8371. 2
8371. 4
8375. 0

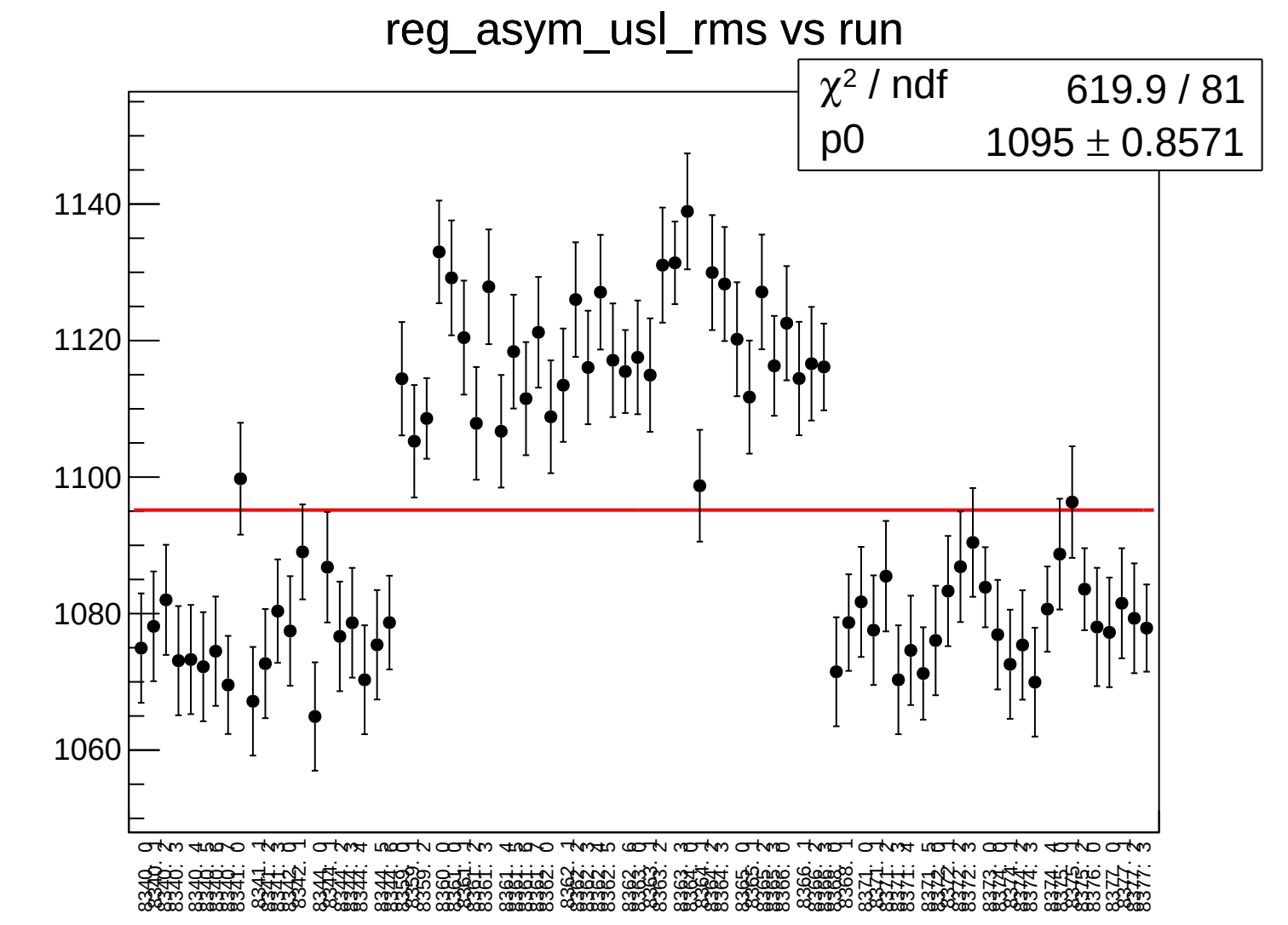

pull
Entries 7
Mean 1.884
Std Dev 2.134
1
0.5
0
−0.5
−1

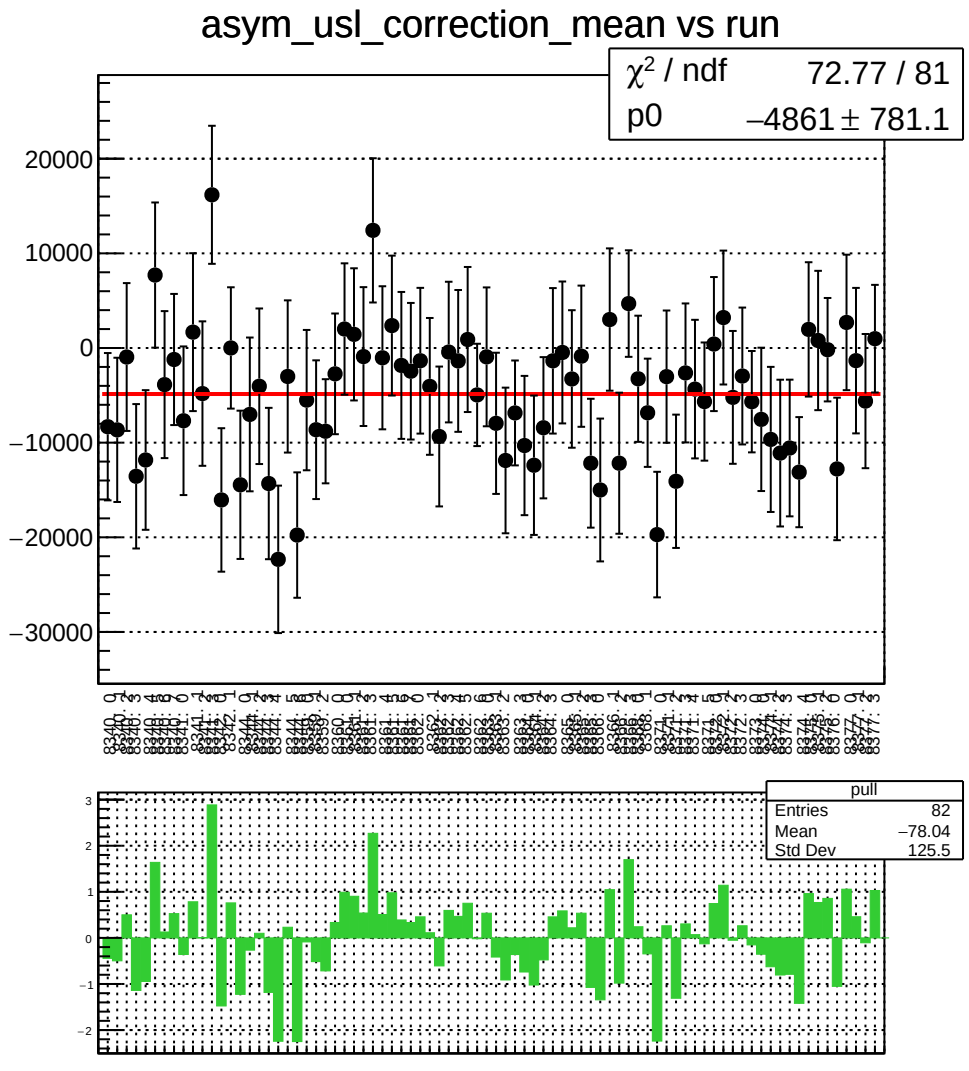

pull1D
Entries 7
Mean −0.06623
Std Dev 0.7575
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

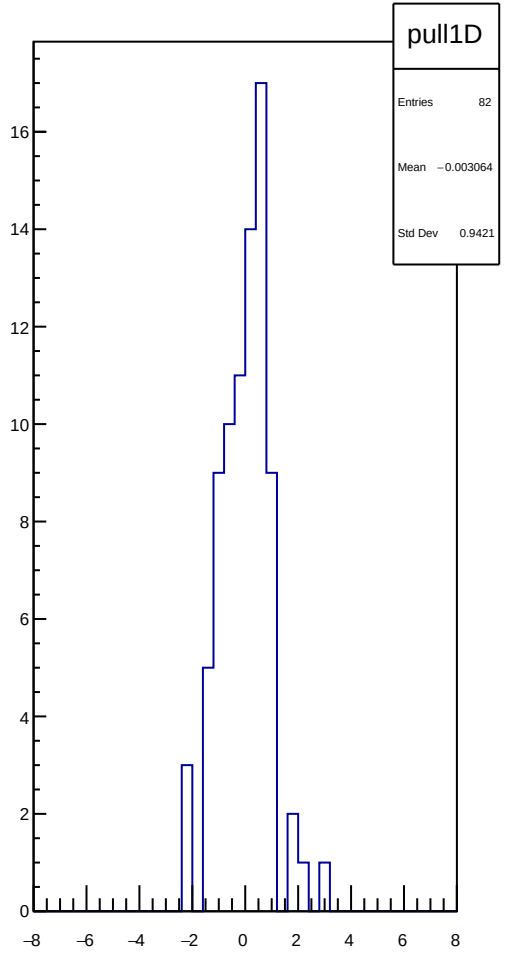

asym_ds_dd_rms vs run
×10^3
χ² / ndf 2.079e+05 / 22
p0 5.345e+04 ± 112.9
1000
800
600
400
200
8344. 2
8344. 4
8344. 5
8344. 6
8363. 0
8364. 0
8364. 3
8365. 2
8365. 3
8366. 0
8366. 1
8366. 2
8368. 0
8368. 1
8371. 0
8371. 1
8371. 2
8371. 3
8371. 4
8372. 3
8375. 0
8375. 1
8377. 0

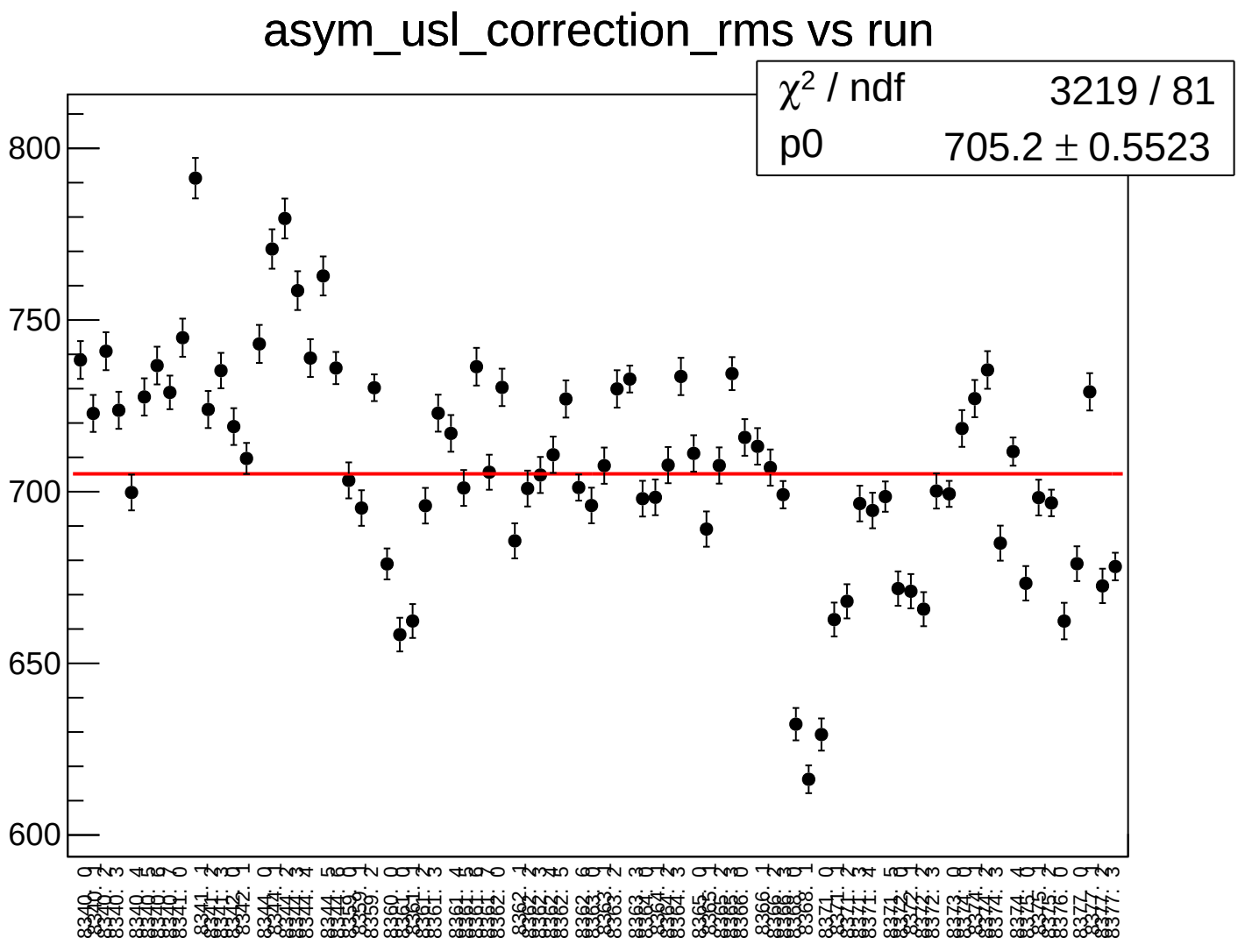

reg_asym_usl_mean vs run
χ² / ndf 88.72 / 81
p0 −2435 ± 1212
pull
Entries 82
Mean −226.9
Std Dev 277.7

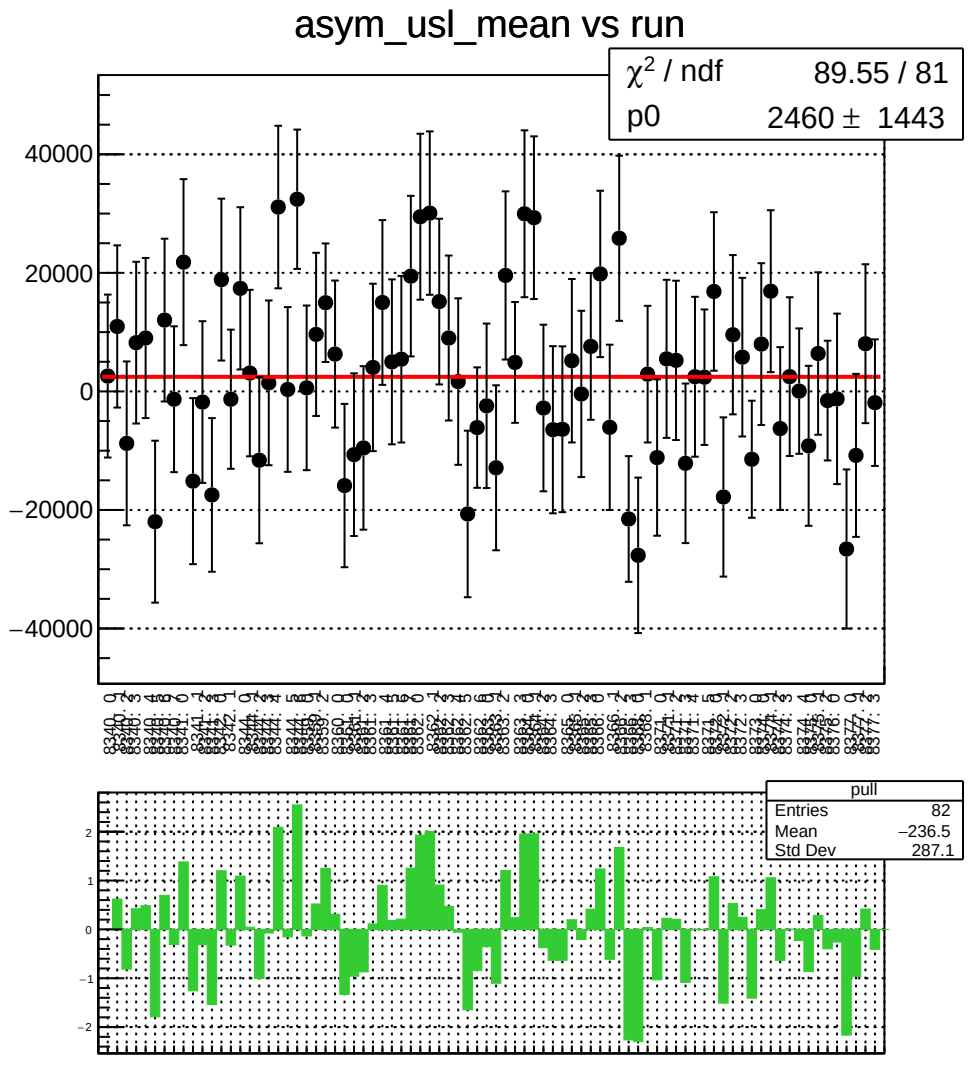

pull1D
Entries 82
Mean 0.01679
Std Dev 1.04

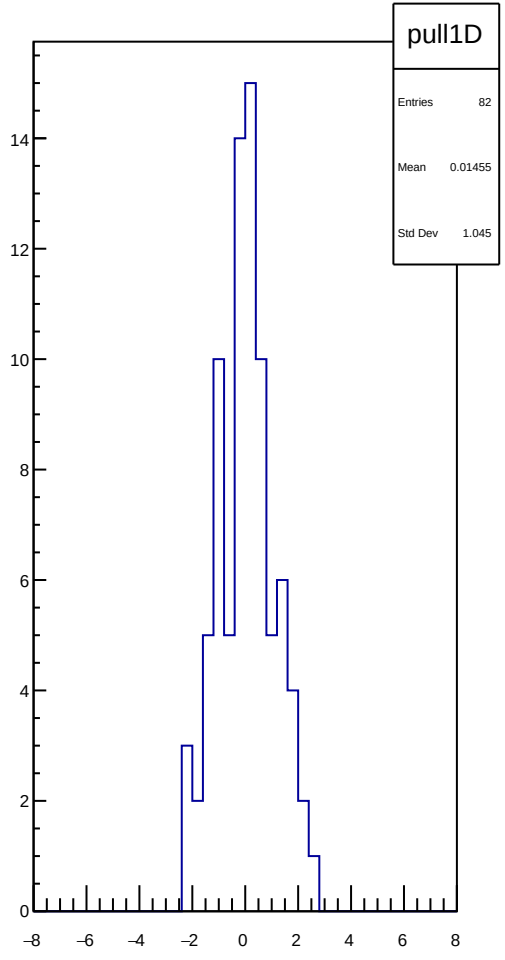

reg_asym_usl_rms vs run
χ² / ndf 619.9 / 81
p0 1095 ± 0.8571
1140
1120
1100
1080
1060

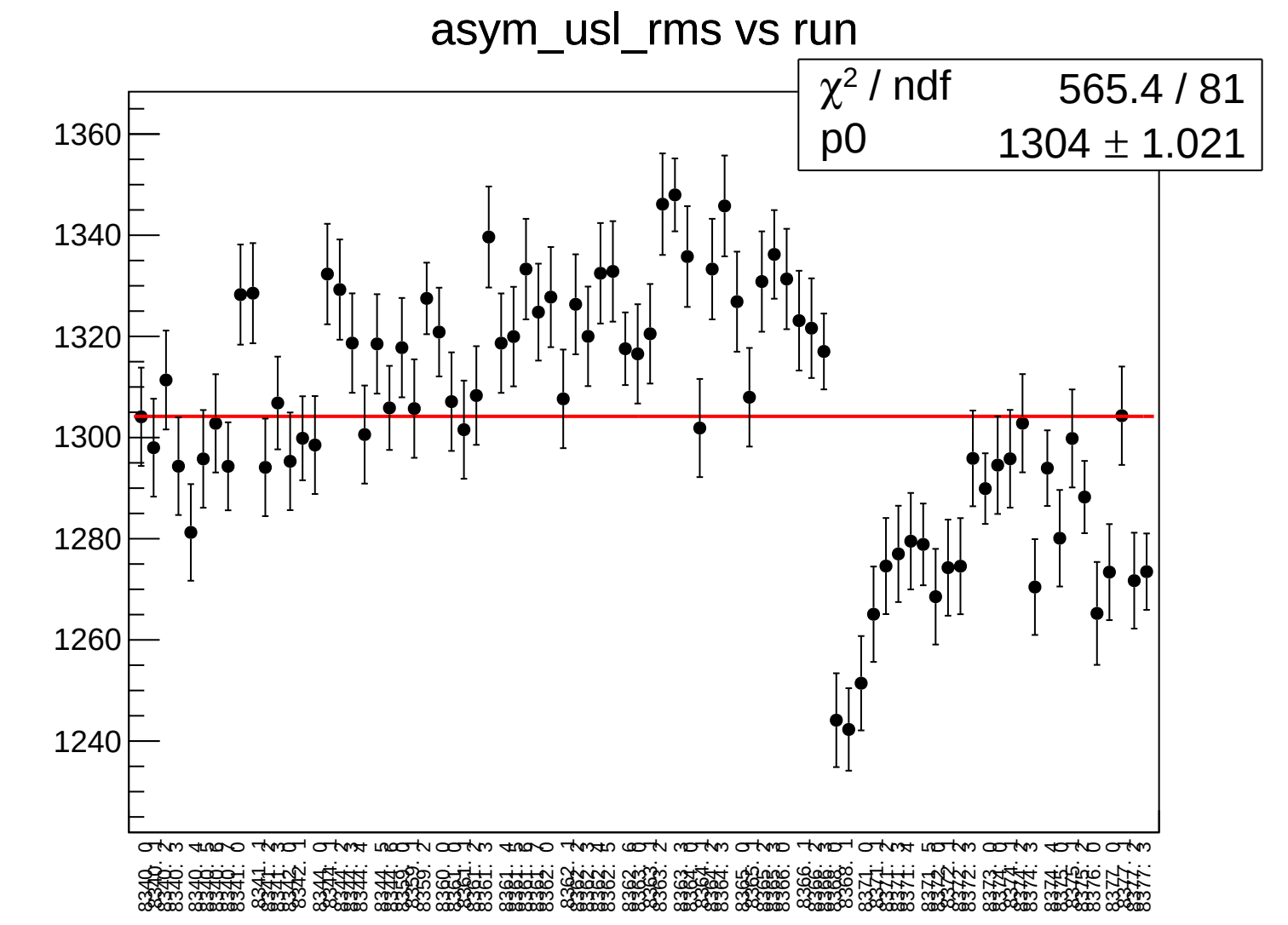

asym_usl_correction_mean vs run
χ² / ndf 72.77 / 81
p0 −4861 ± 781.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −78.04
Std Dev 125.5
3
2
1
0
−1
−2

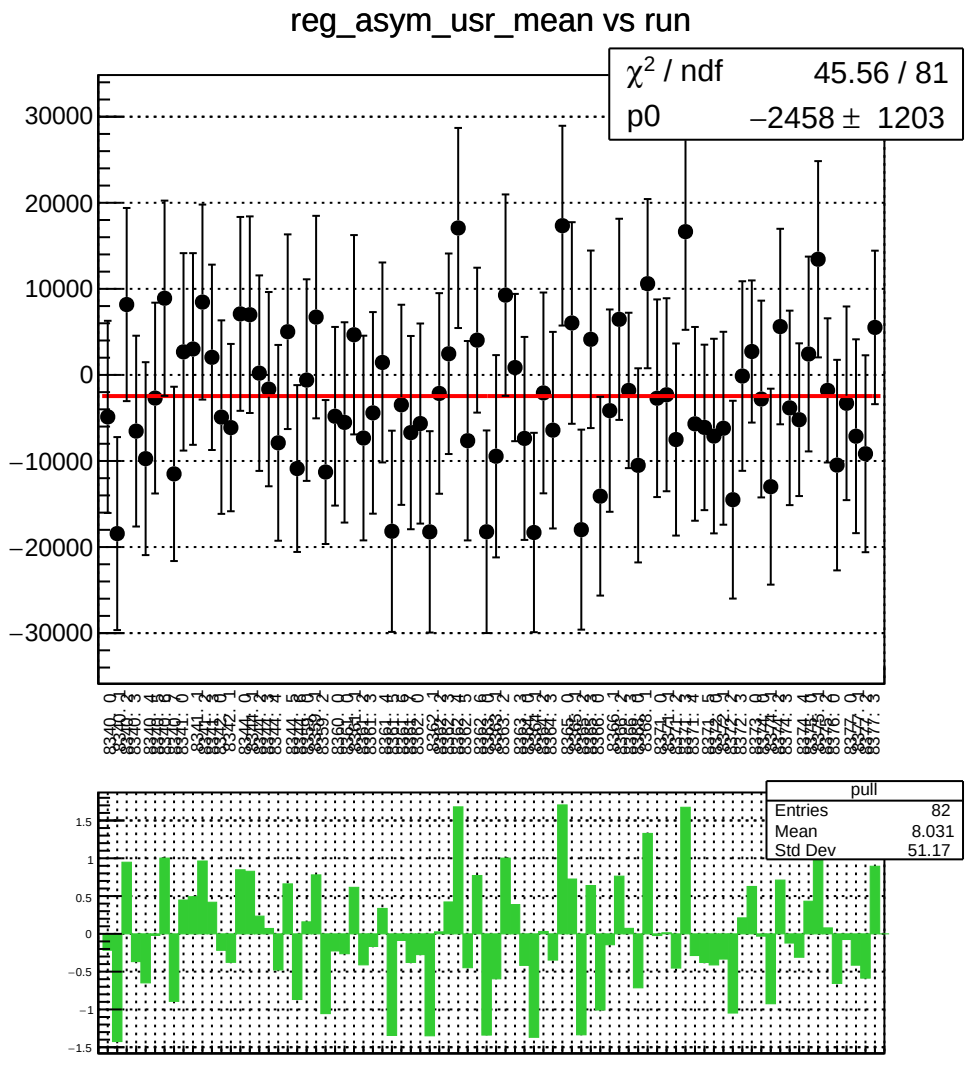

pull1D
Entries 82
Mean −0.003064
Std Dev 0.9421
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

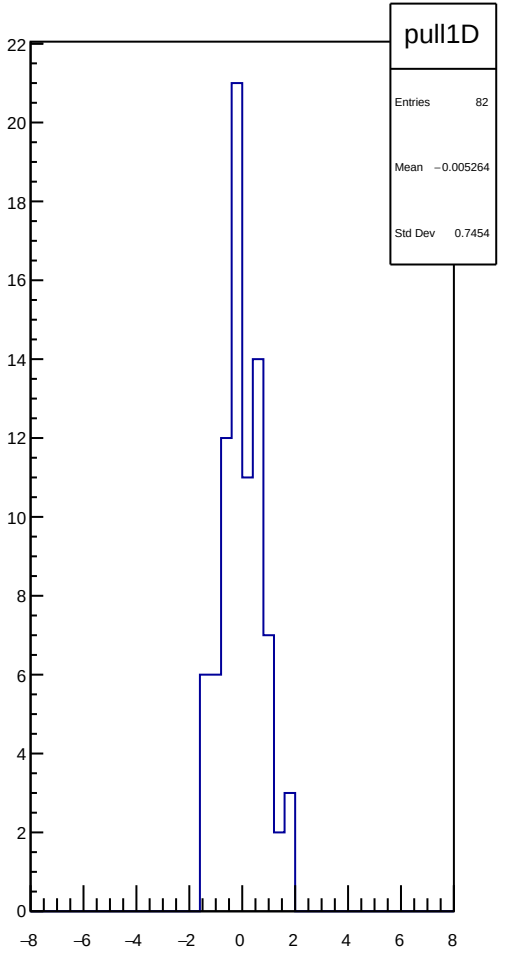

asym_usl_correction_rms vs run
χ² / ndf 3219 / 81
p0 705.2 ± 0.5523
800
750
700
650
600

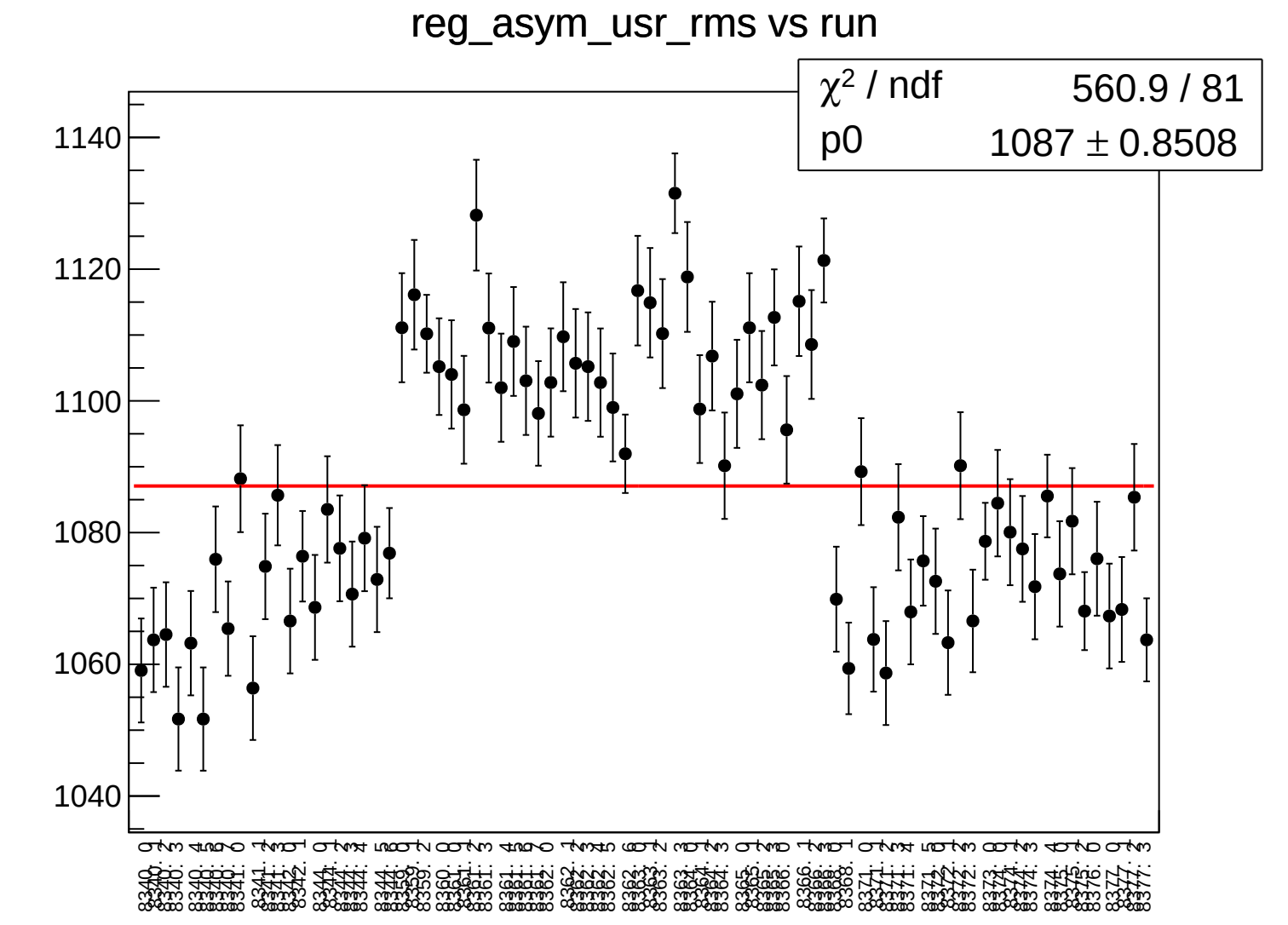

asym_usl_mean vs run
χ² / ndf 89.55 / 81
p0 2460 ± 1443
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −236.5
Std Dev 287.1
2
1
0
−1
−2

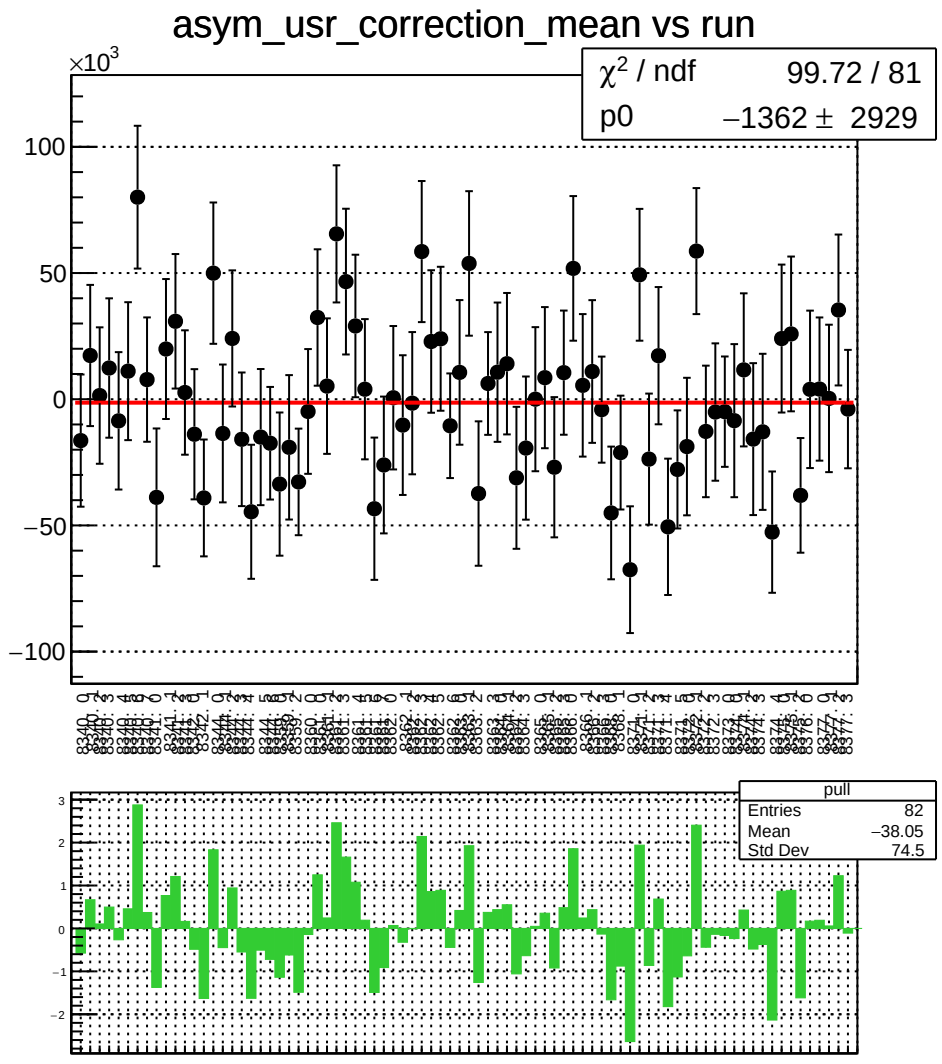

pull1D
Entries 82
Mean 0.01455
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

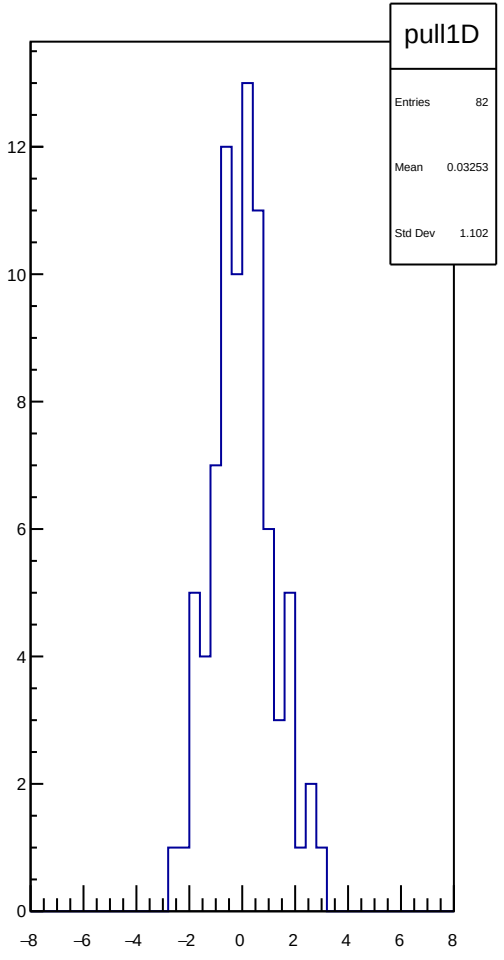

asym_usl_rms vs run
χ² / ndf 565.4 / 81
p0 1304 ± 1.021
1360
1340
1320
1300
1280
1260
1240

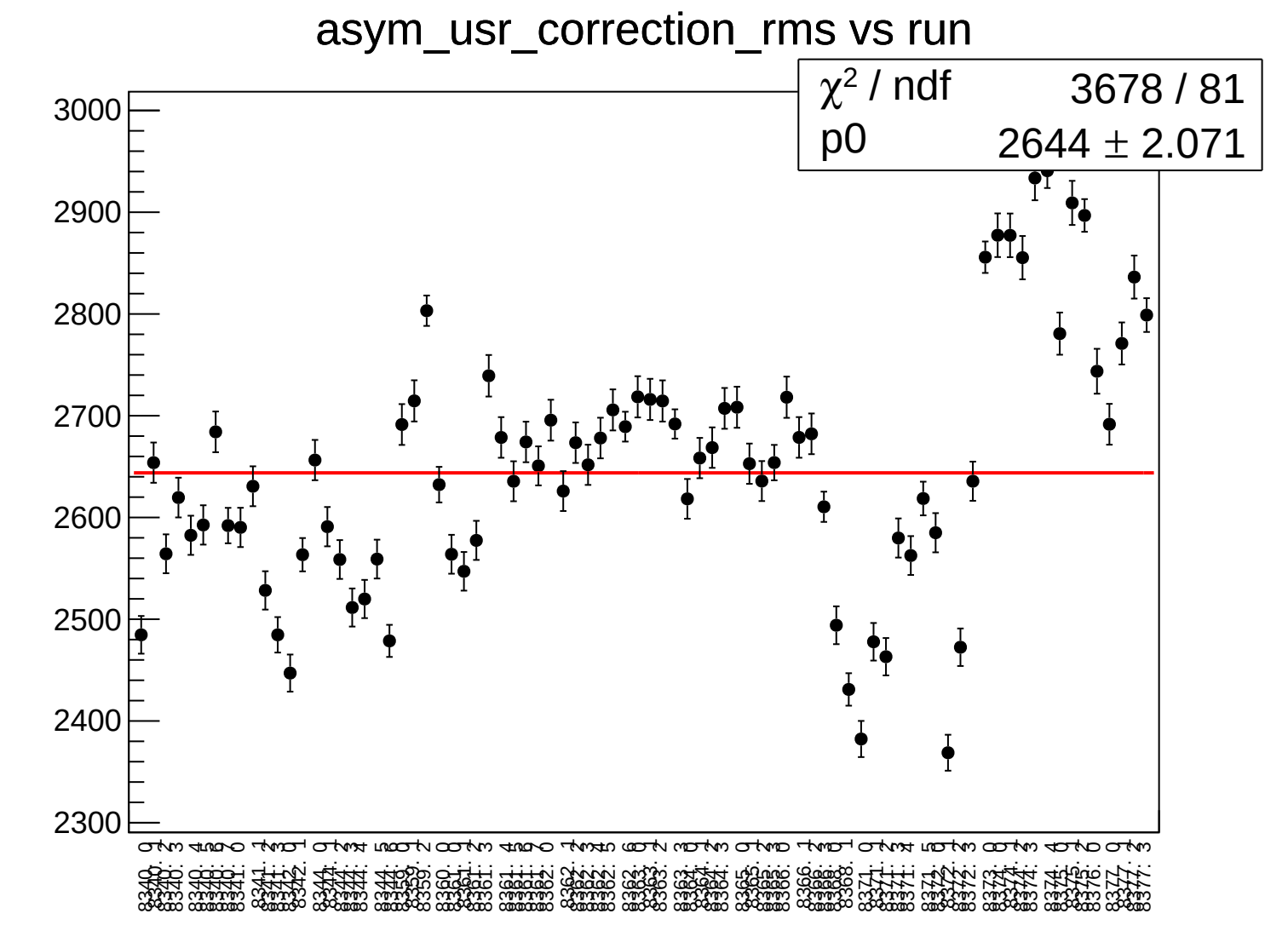

reg_asym_usr_mean vs run
χ² / ndf 45.56 / 81
p0 −2458 ± 1203
pull
Entries 82
Mean 8.031
Std Dev 51.17

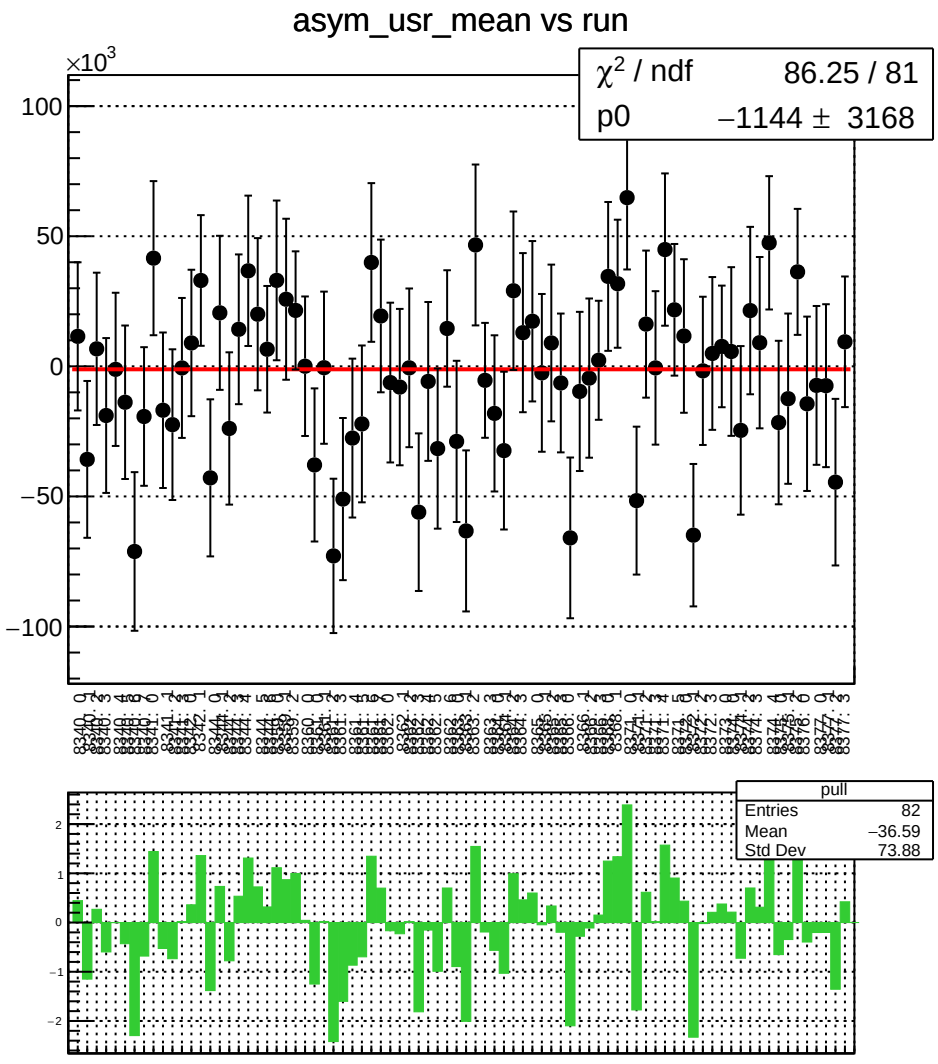

pull1D
Entries 82
Mean −0.005264
Std Dev 0.7454

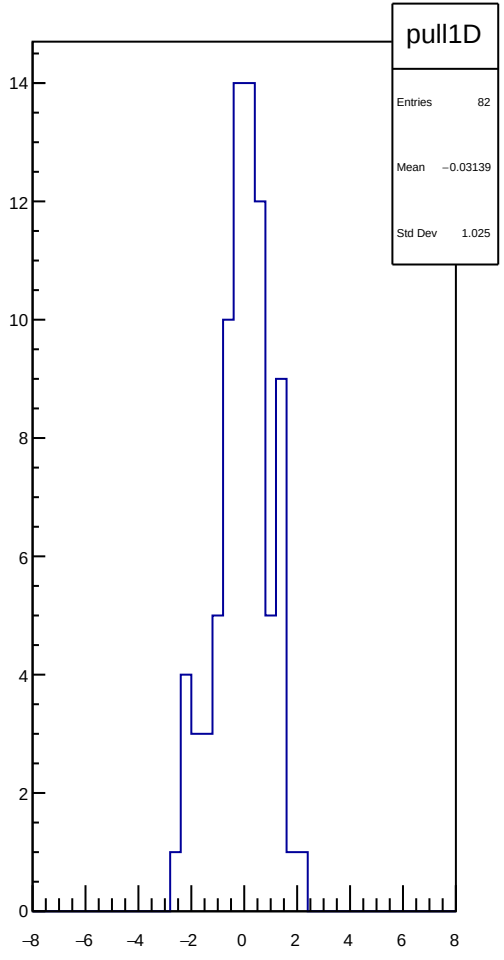

reg_asym_usr_rms vs run
χ² / ndf 560.9 / 81
p0 1087 ± 0.8508
1140
1120
1100
1080
1060
1040

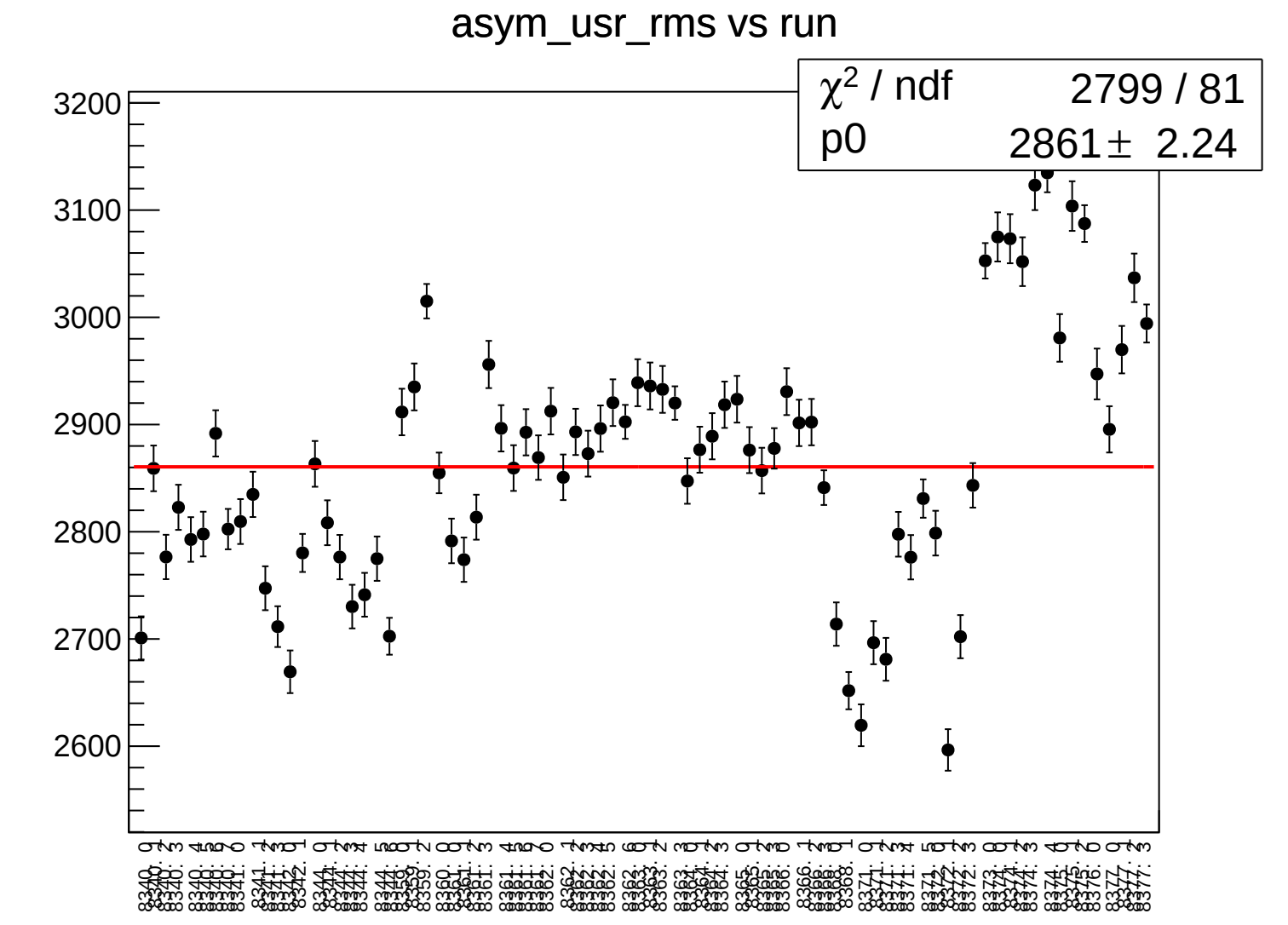

asym_usr_correction_mean vs run
×10^3
χ² / ndf 99.72 / 81
p0 −1362 ± 2929
100
50
0
−50
−100
pull
Entries 82
Mean −38.05
Std Dev 74.5
3
2
1
0
−1
−2

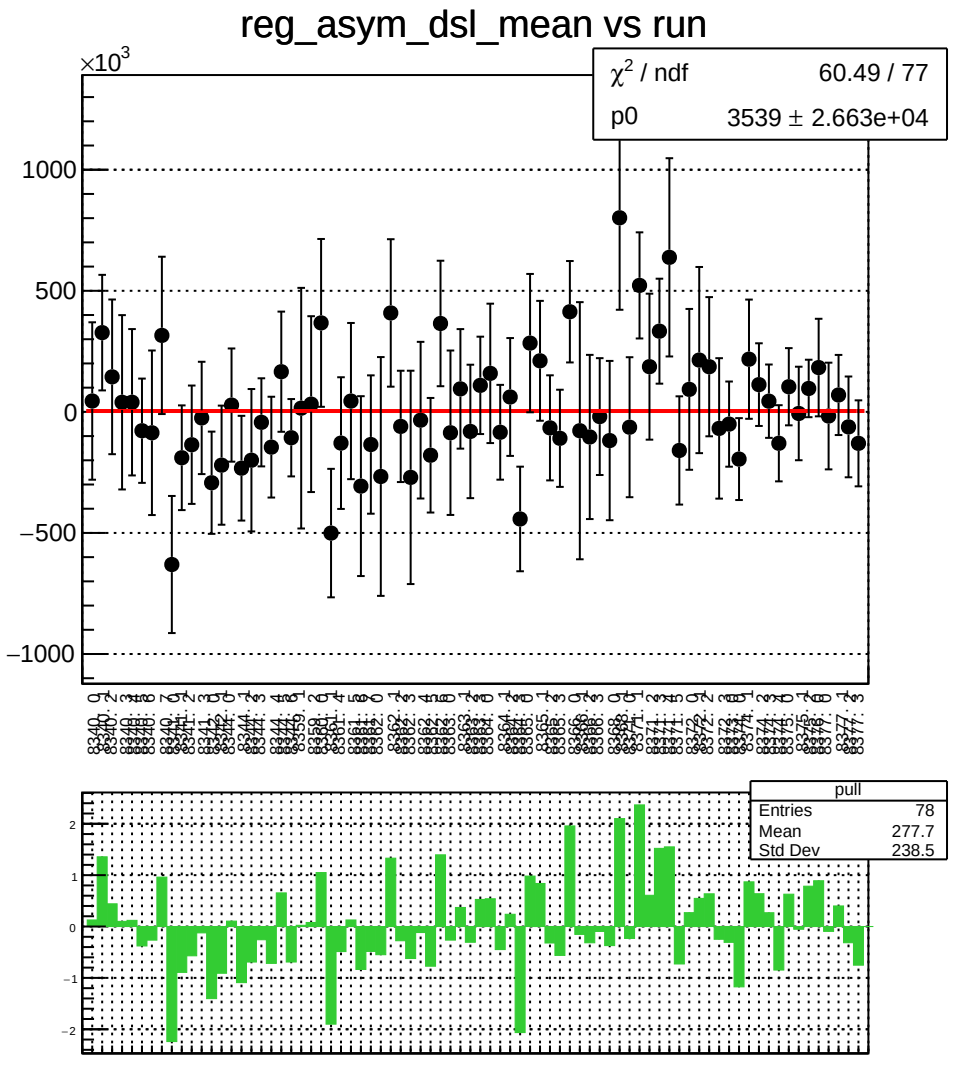

pull1D
Entries 82
Mean 0.03253
Std Dev 1.102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

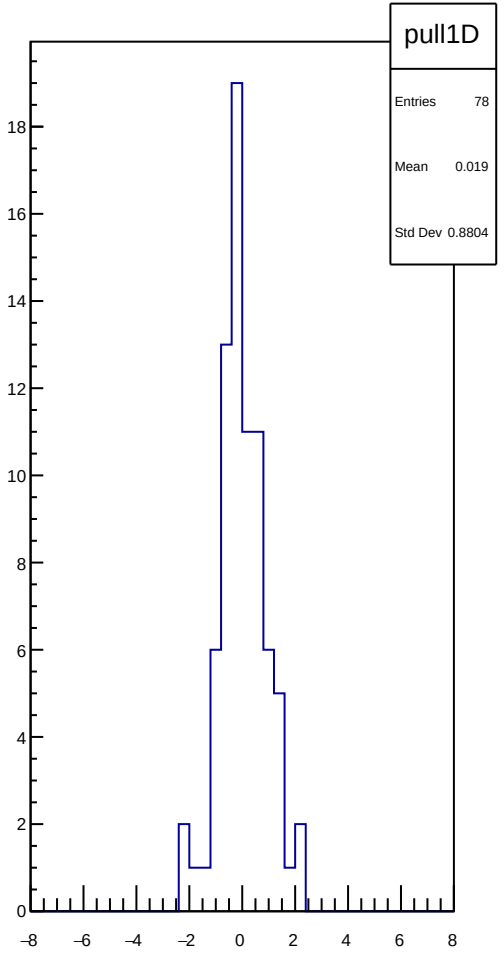

asym_usr_correction_rms vs run
χ² / ndf 3678 / 81
p0 2644 ± 2.071
3000
2900
2800
2700
2600
2500
2400
2300

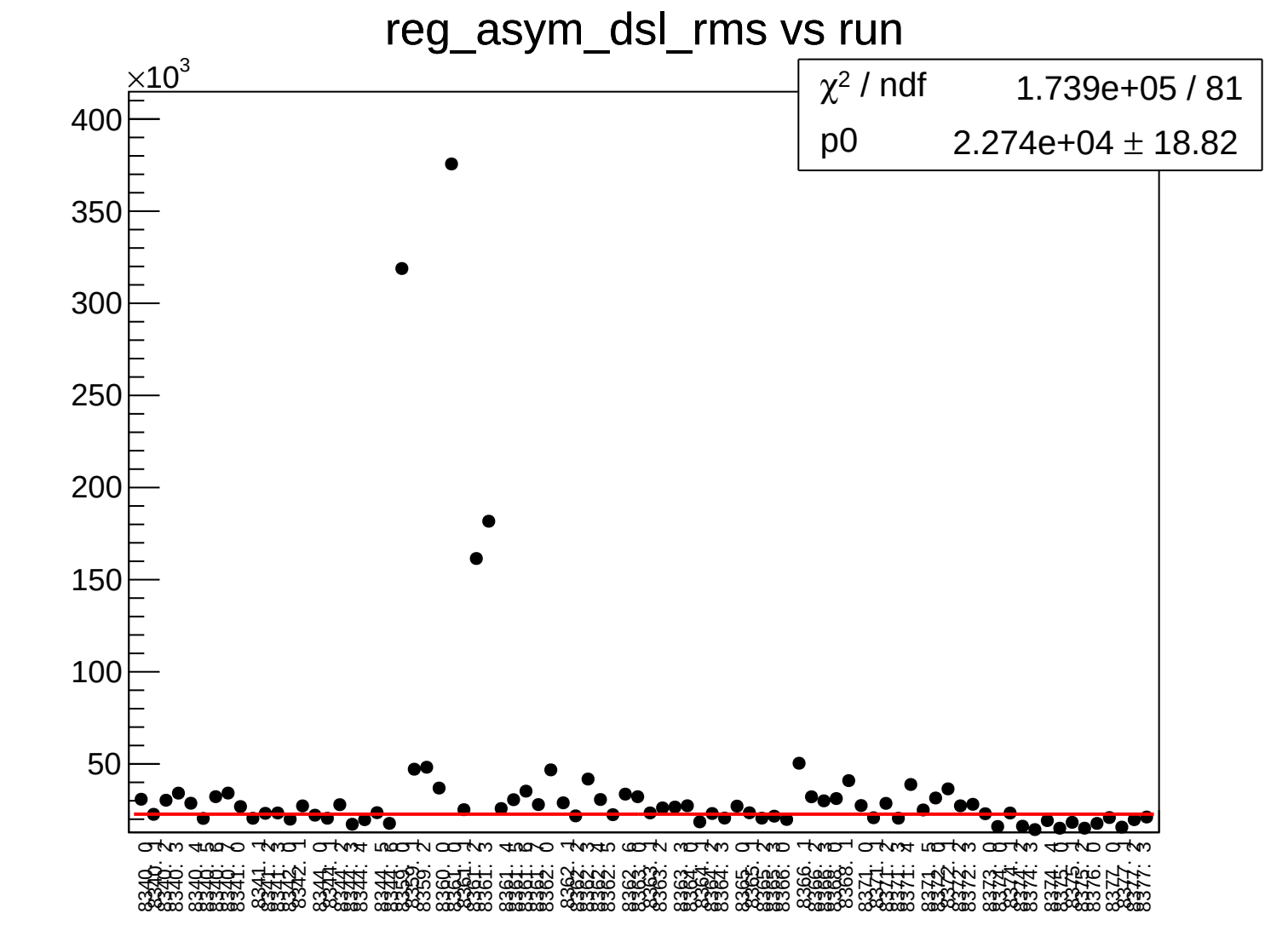

asym_usr_mean vs run
×10^3
χ² / ndf 86.25 / 81
p0 −1144 ± 3168
100
50
0
−50
−100
pull
Entries 82
Mean −36.59
Std Dev 73.88
2
1
0
−1
−2

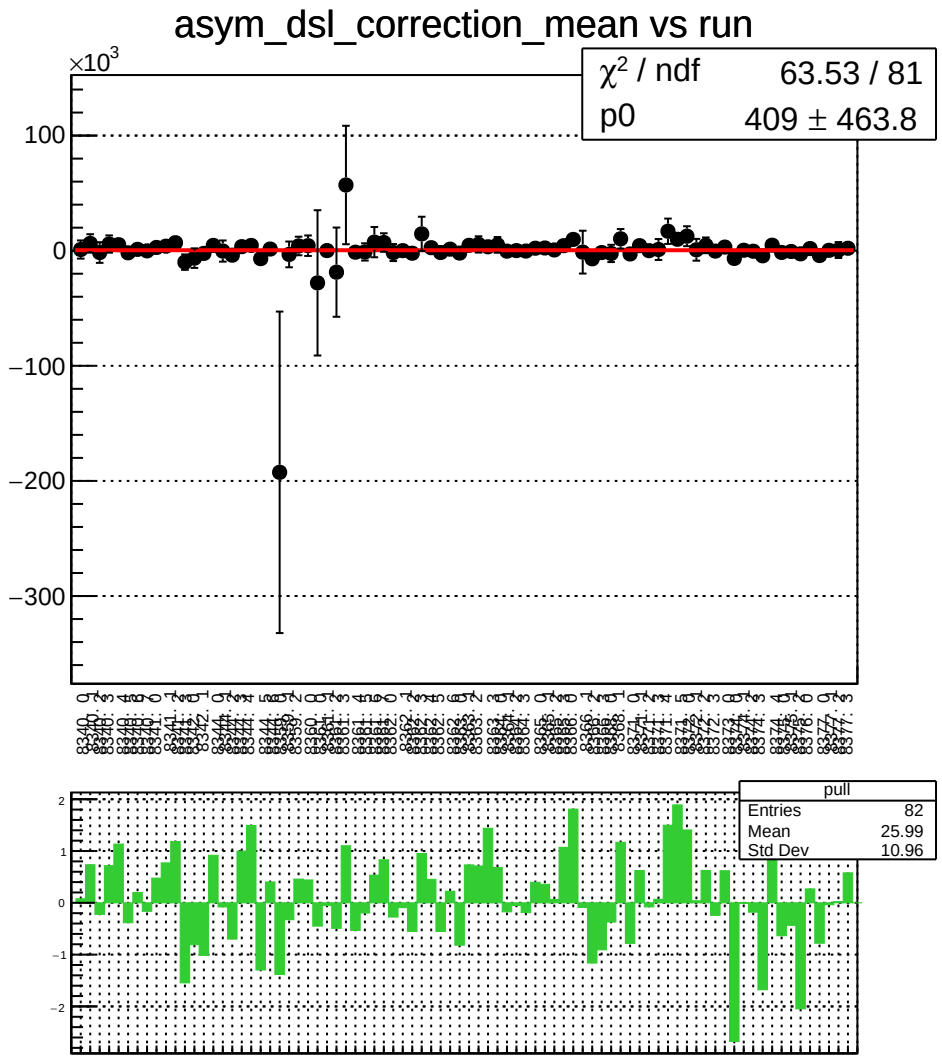

pull1D
Entries 82
Mean −0.03139
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

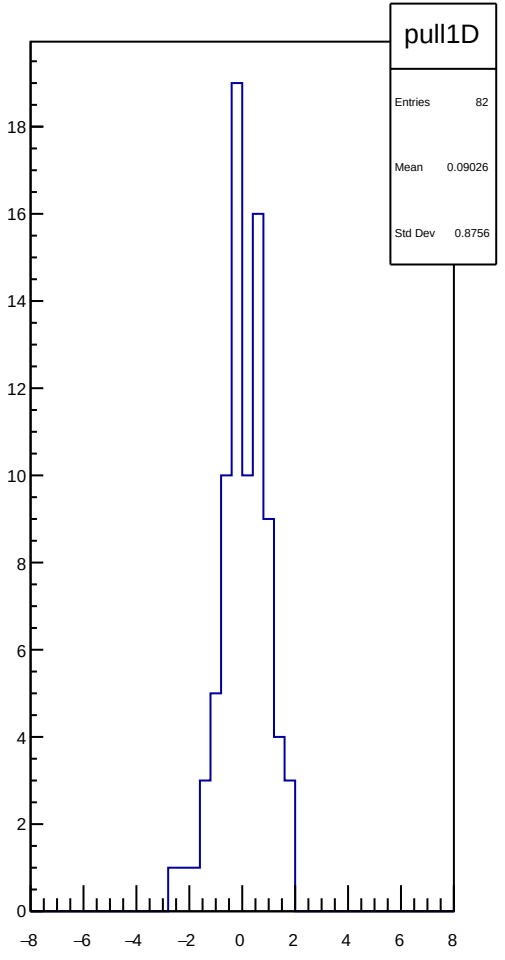

asym_usr_rms vs run
χ² / ndf 2799 / 81
p0 2861 ± 2.24
3200
3100
3000
2900
2800
2700
2600

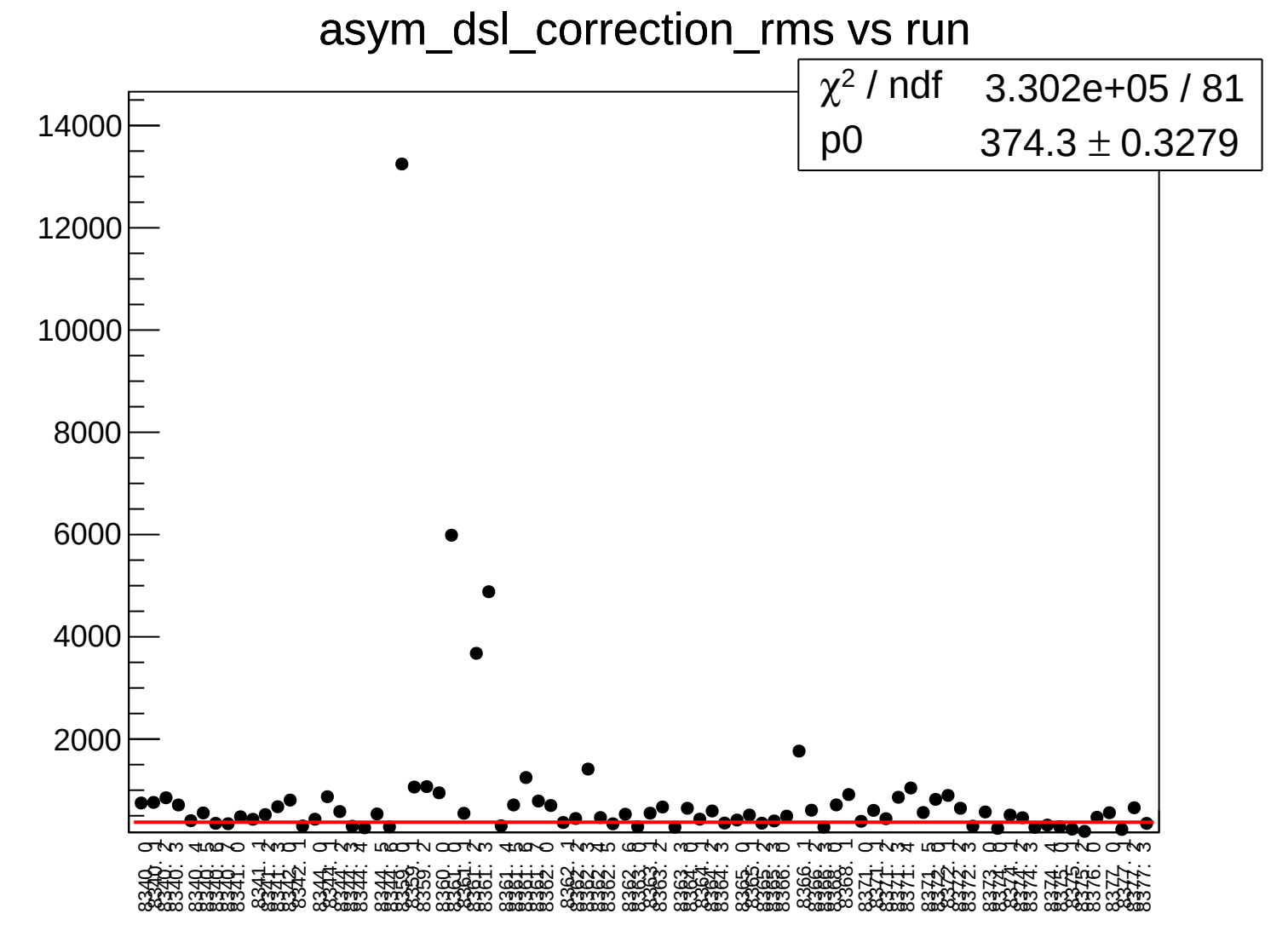

reg_asym_dsl_mean vs run
×10^3
χ² / ndf 60.49 / 77
p0 3539 ± 2.663e+04
1000
500
0
−500
−1000
pull
Entries 78
Mean 277.7
Std Dev 238.5
2
1
0
−1
−2

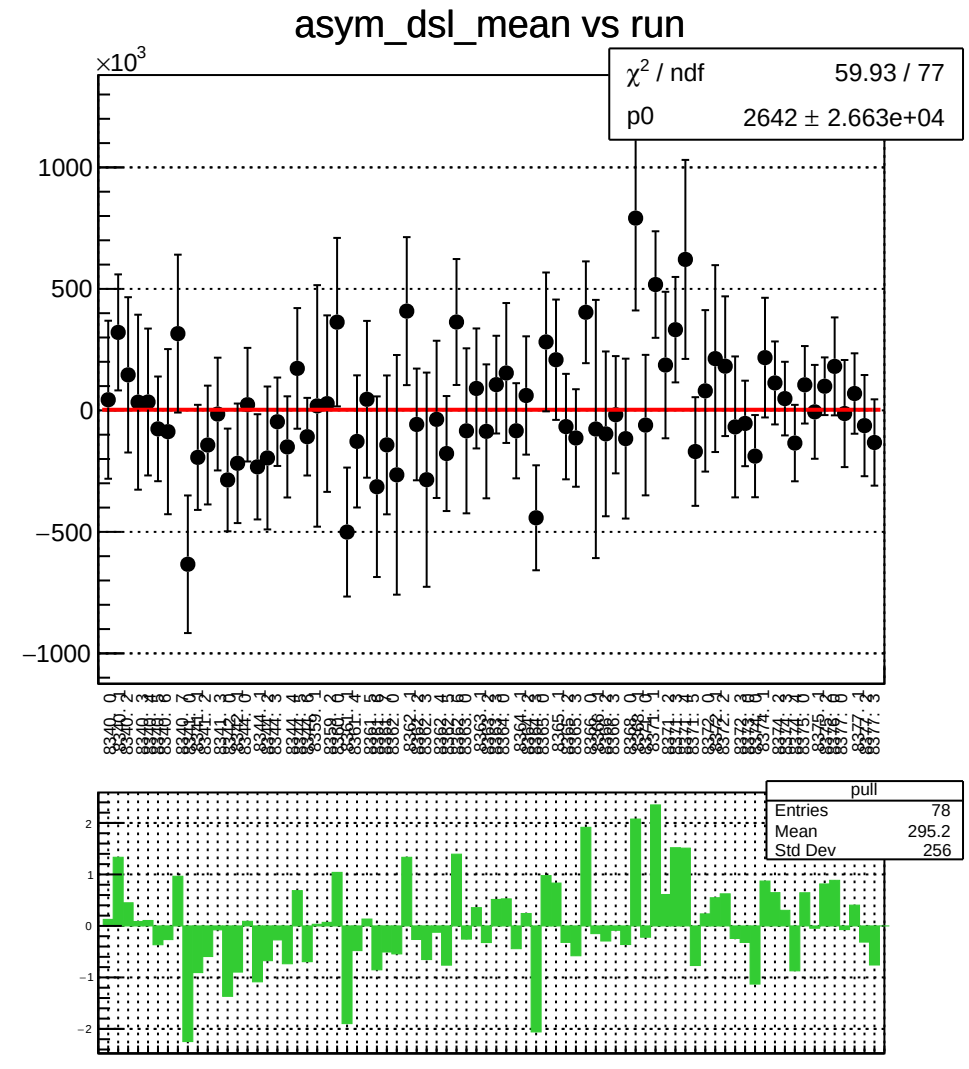

pull1D
Entries 78
Mean 0.019
Std Dev 0.8804
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

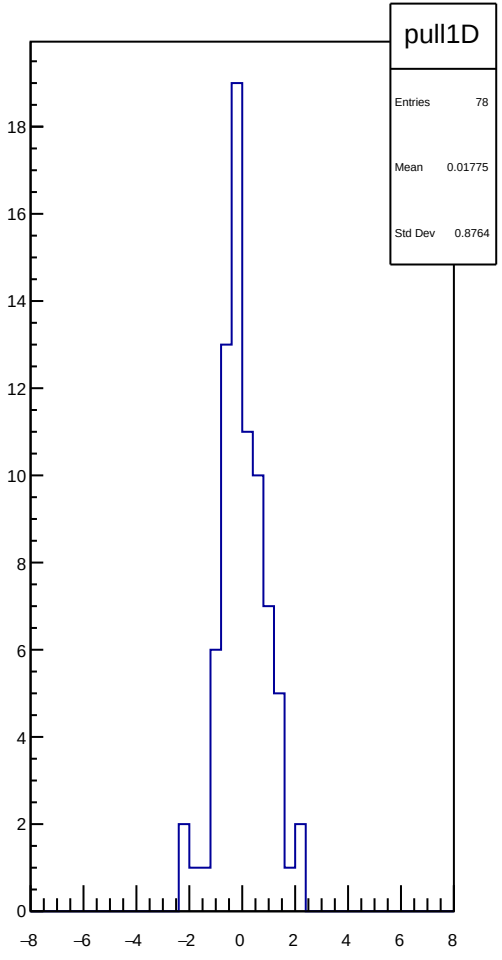

reg_asym_dsl_rms vs run
×10^3
400
350
300
250
200
150
100
50
χ² / ndf 1.739e+05 / 81
p0 2.274e+04 ± 18.82

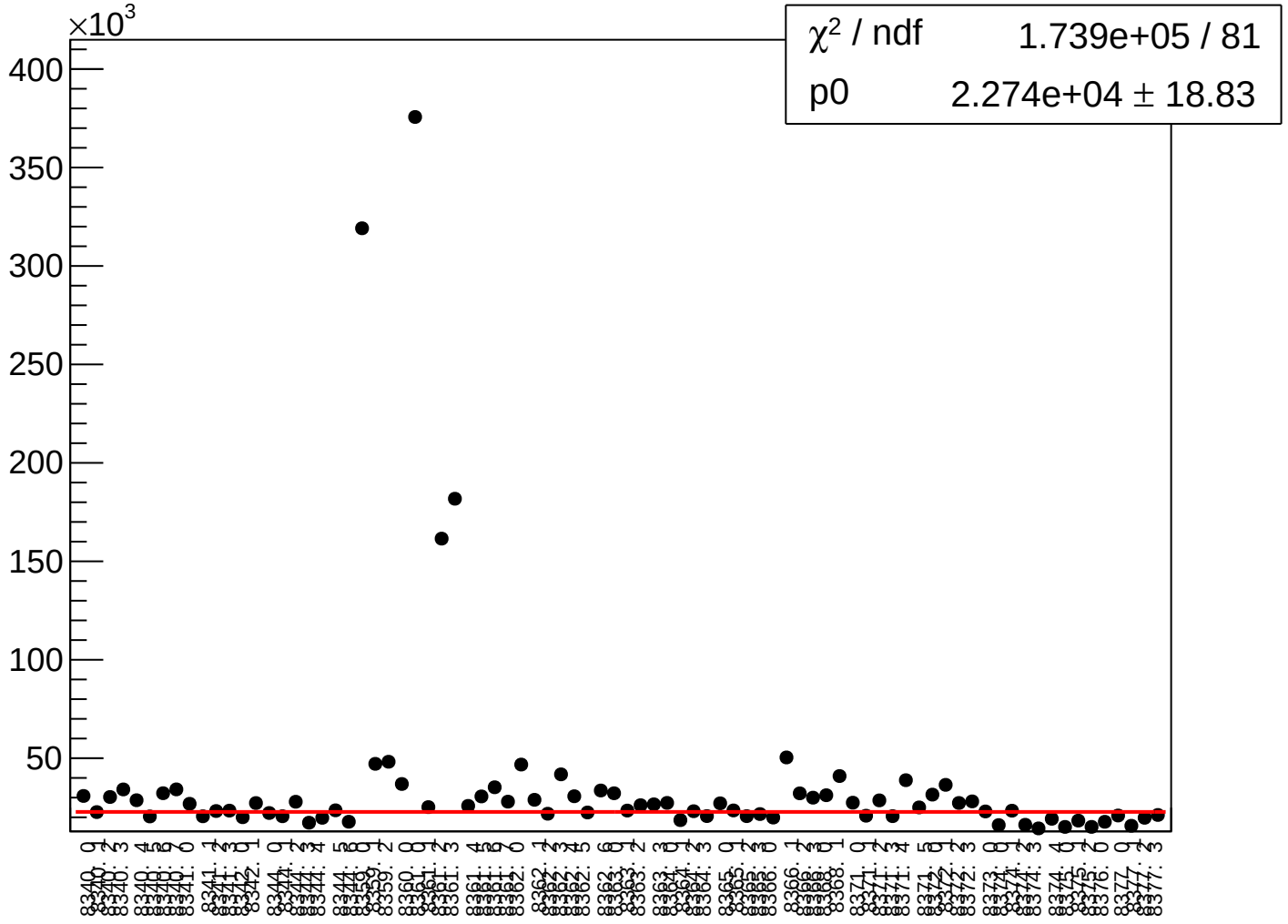

asym_dsl_correction_mean vs run
×10^3
χ² / ndf 63.53 / 81
p0 409 ± 463.8
100
0
−100
−200
−300
pull
Entries 82
Mean 25.99
Std Dev 10.96
2
1
0
−1
−2

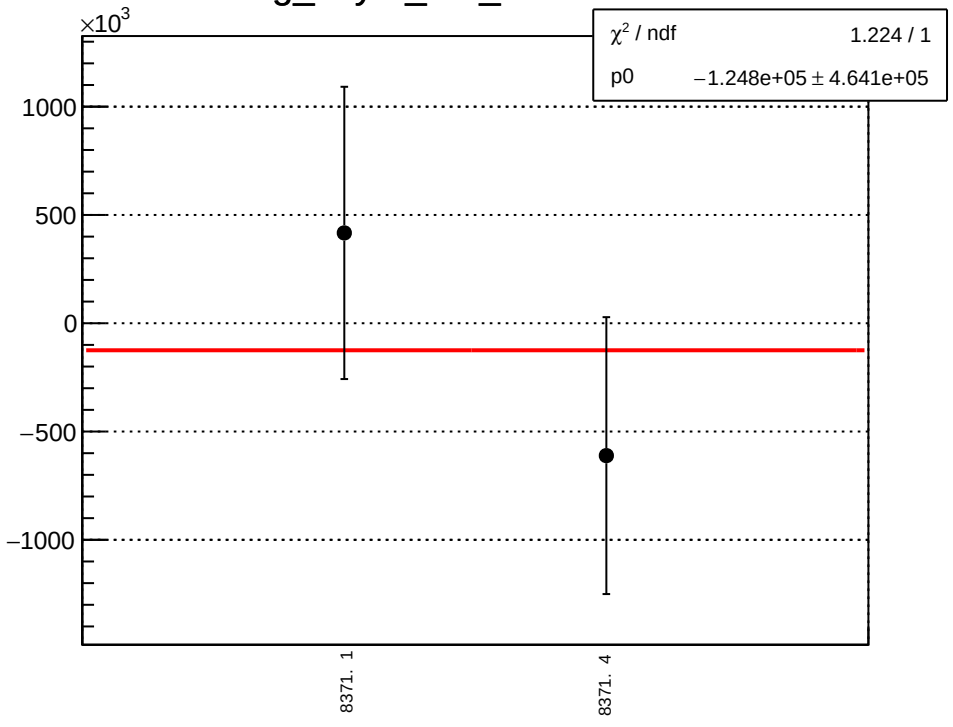

pull1D
Entries 82
Mean 0.09026
Std Dev 0.8756
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

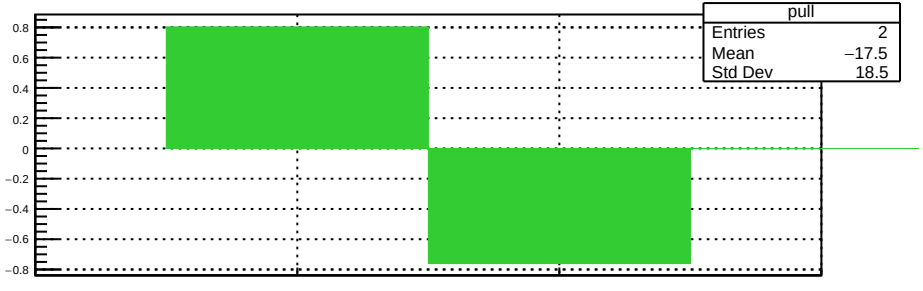

asym_dsl_correction_rms vs run
χ² / ndf 3.302e+05 / 81
p0 374.3 ± 0.3279
14000
12000
10000
8000
6000
4000
2000

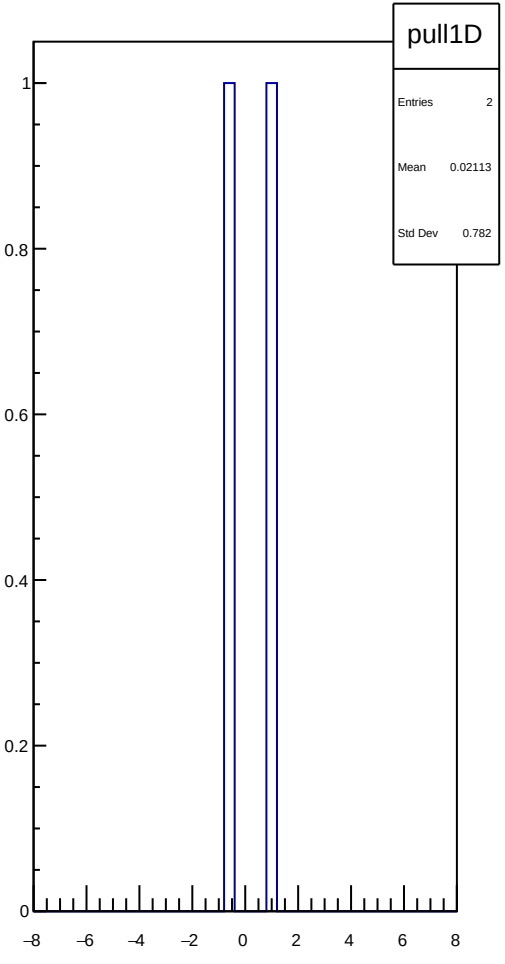

asym_dsl_mean vs run
×10^3
χ² / ndf 59.93 / 77
p0 2642 ± 2.663e+04
1000
500
0
−500
−1000
pull
Entries 78
Mean 295.2
Std Dev 256
2
1
0
−1
−2

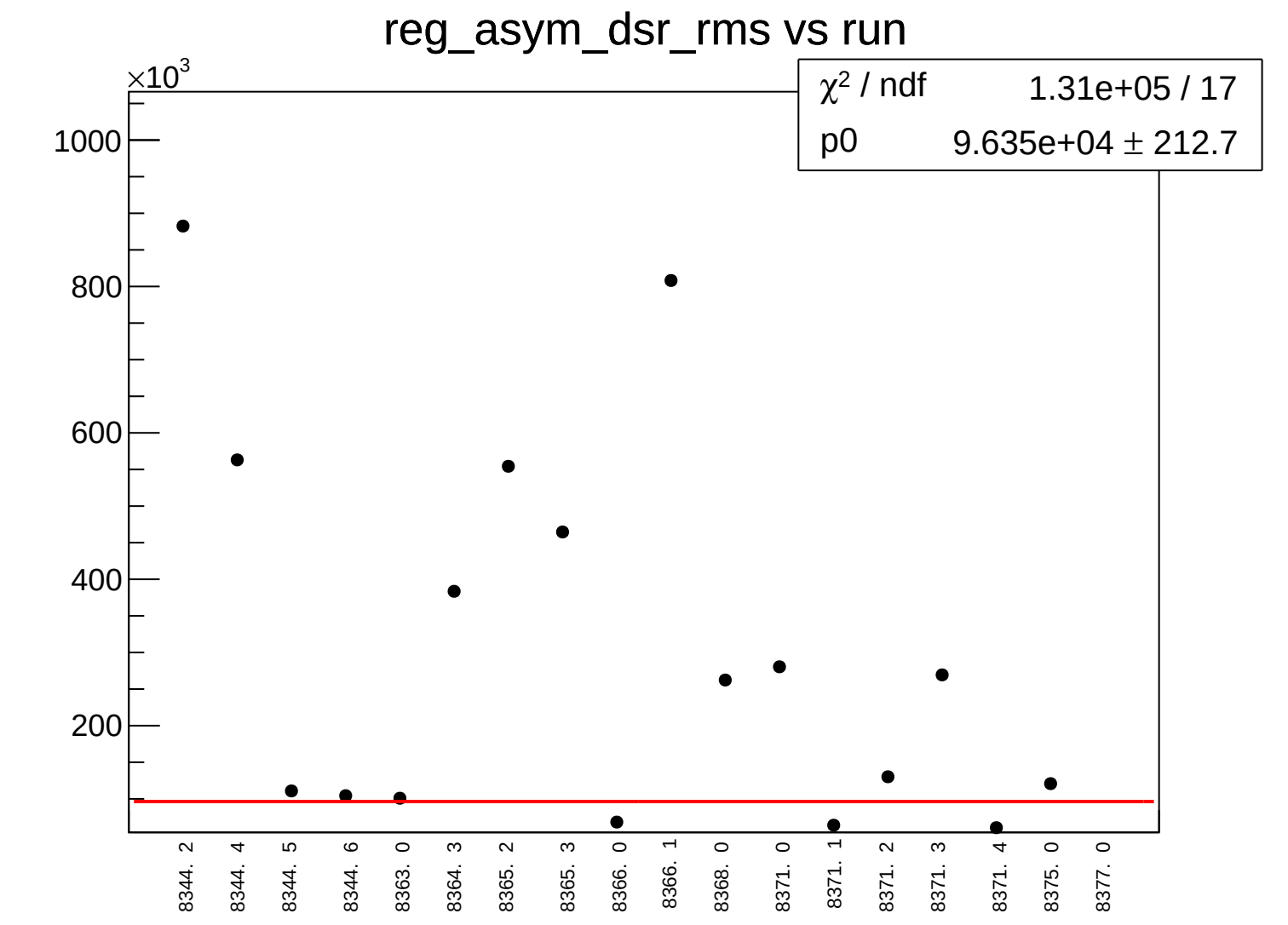

pull1D
Entries 78
Mean 0.01775
Std Dev 0.8764
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

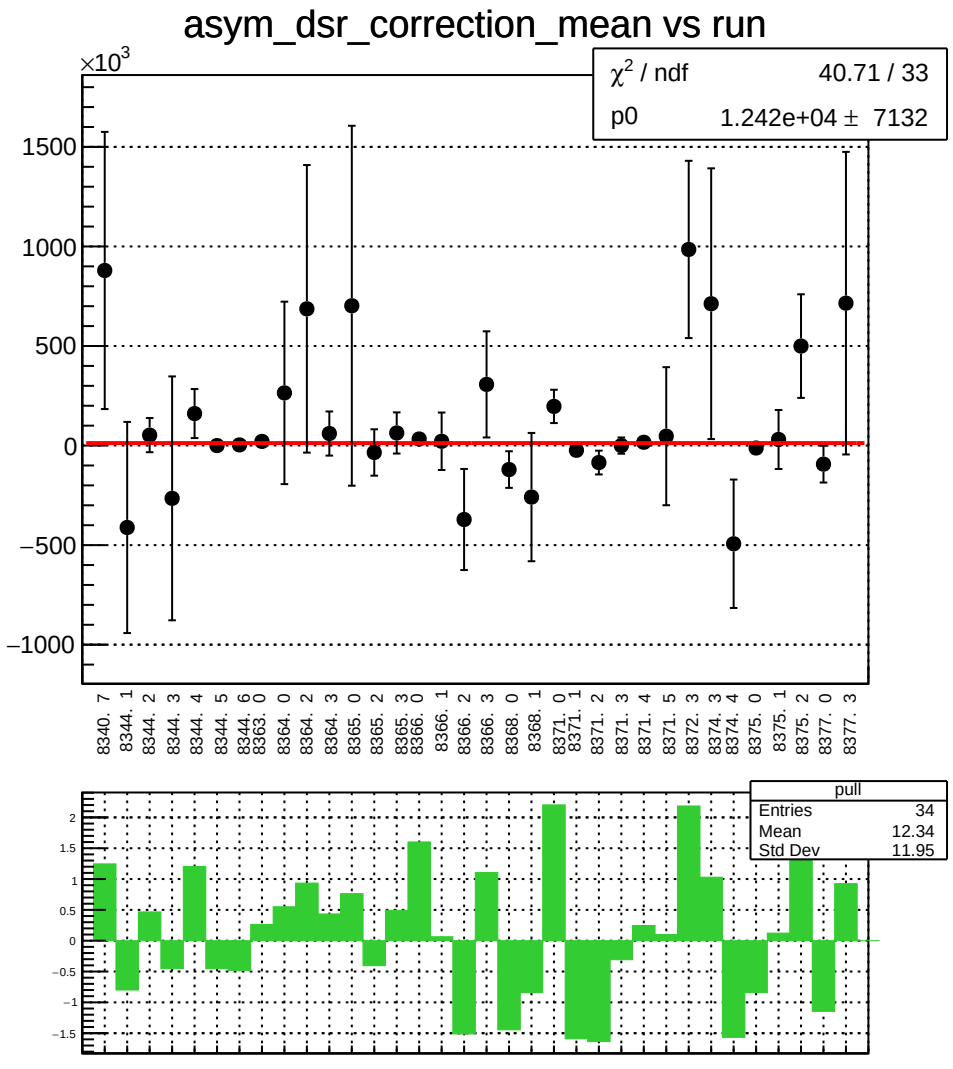

asym_dsl_rms vs run
×10^3
400
350
300
250
200
150
100
50
χ² / ndf 1.739e+05 / 81
p0 2.274e+04 ± 18.83

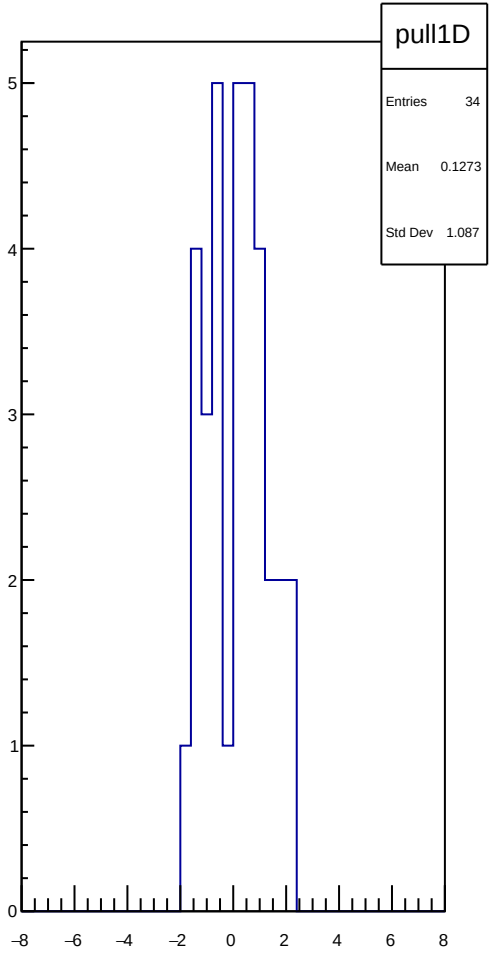

reg_asym_dsr_mean vs run
×10^3
χ² / ndf 1.224 / 1
p0 −1.248e+05 ± 4.641e+05
1000
500
0
−500
−1000
8371. 1
8371. 4

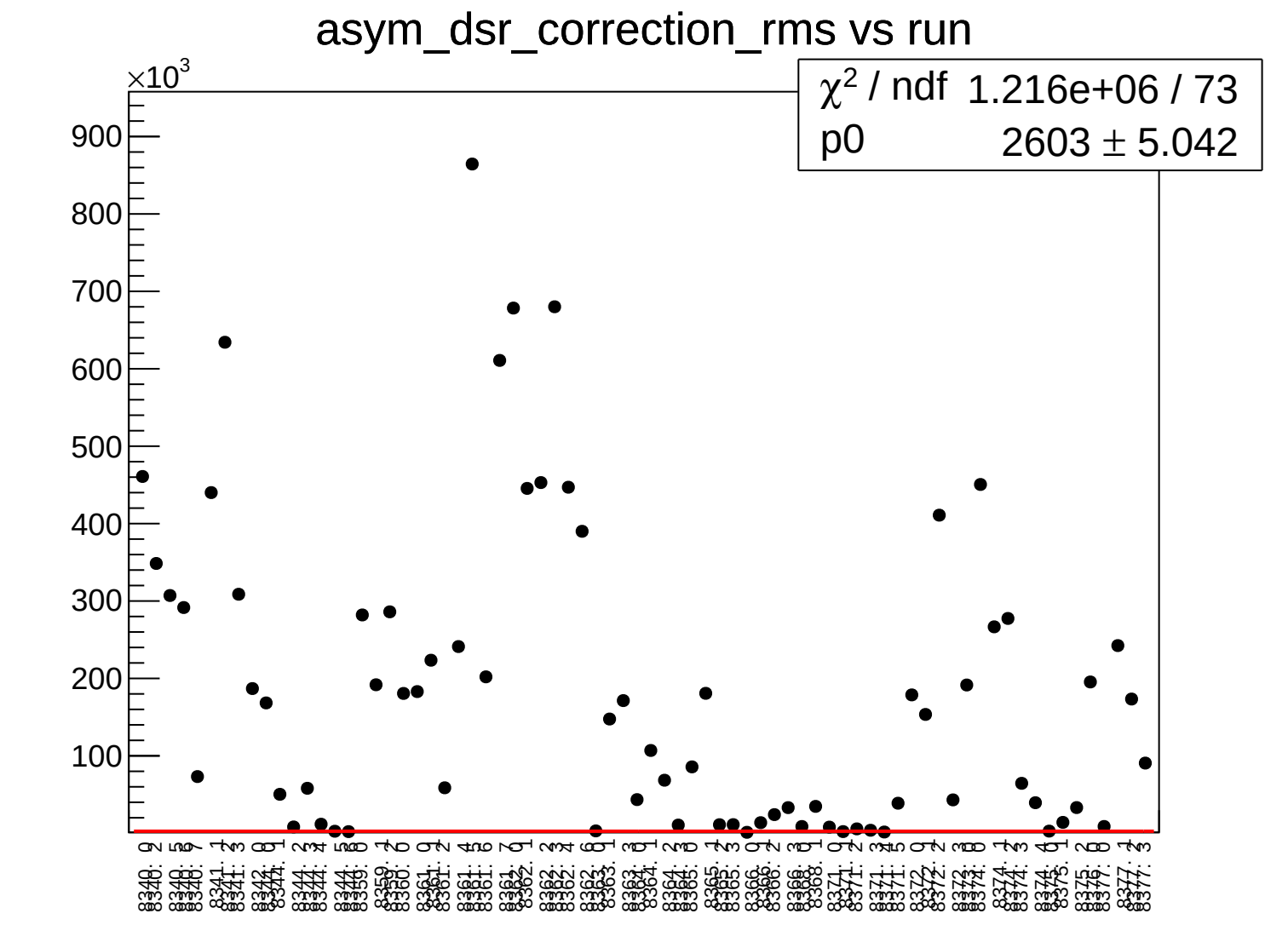

pull
Entries 2
Mean −17.5
Std Dev 18.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

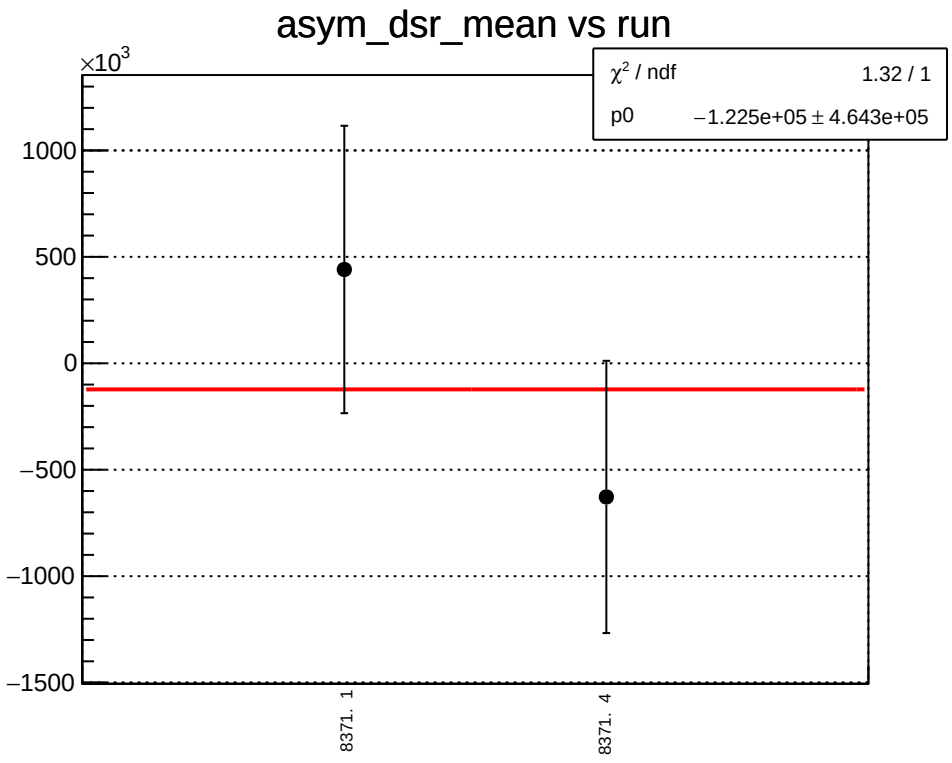

pull1D
Entries 2
Mean 0.02113
Std Dev 0.782
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

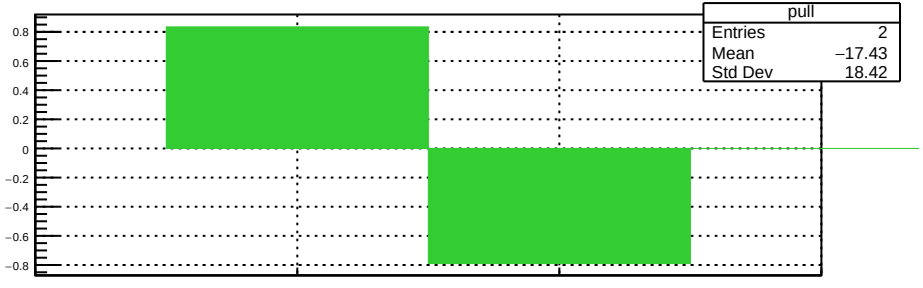

reg_asym_dsr_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.31e+05 / 17
p0 9.635e+04 ± 212.7
8344. 2
8344. 4
8344. 5
8344. 6
8363. 0
8364. 3
8365. 2
8365. 3
8366. 0
8366. 1
8368. 0
8371. 0
8371. 1
8371. 2
8371. 3
8371. 4
8375. 0
8377. 0

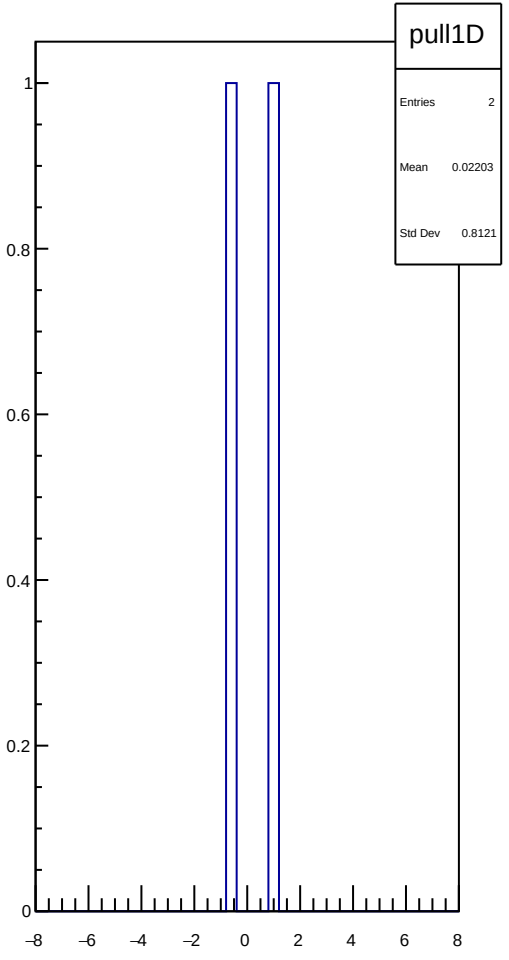

asym_dsr_correction_mean vs run
×10^3
χ² / ndf 40.71 / 33
p0 1.242e+04 ± 7132
1500
1000
500
0
−500
−1000
8340. 7
8344. 1
8344. 2
8344. 3
8344. 4
8344. 5
8344. 6
8363. 0
8364. 0
8364. 2
8364. 3
8365. 0
8365. 2
8365. 3
8366. 0
8366. 1
8366. 2
8366. 3
8368. 0
8368. 1
8371. 0
8371. 1
8371. 2
8371. 3
8371. 4
8371. 5
8372. 3
8374. 3
8374. 4
8375. 0
8375. 1
8375. 2
8377. 0
8377. 3
pull
Entries 34
Mean 12.34
Std Dev 11.95
2
1.5
1
0.5
0
−0.5
−1
−1.5

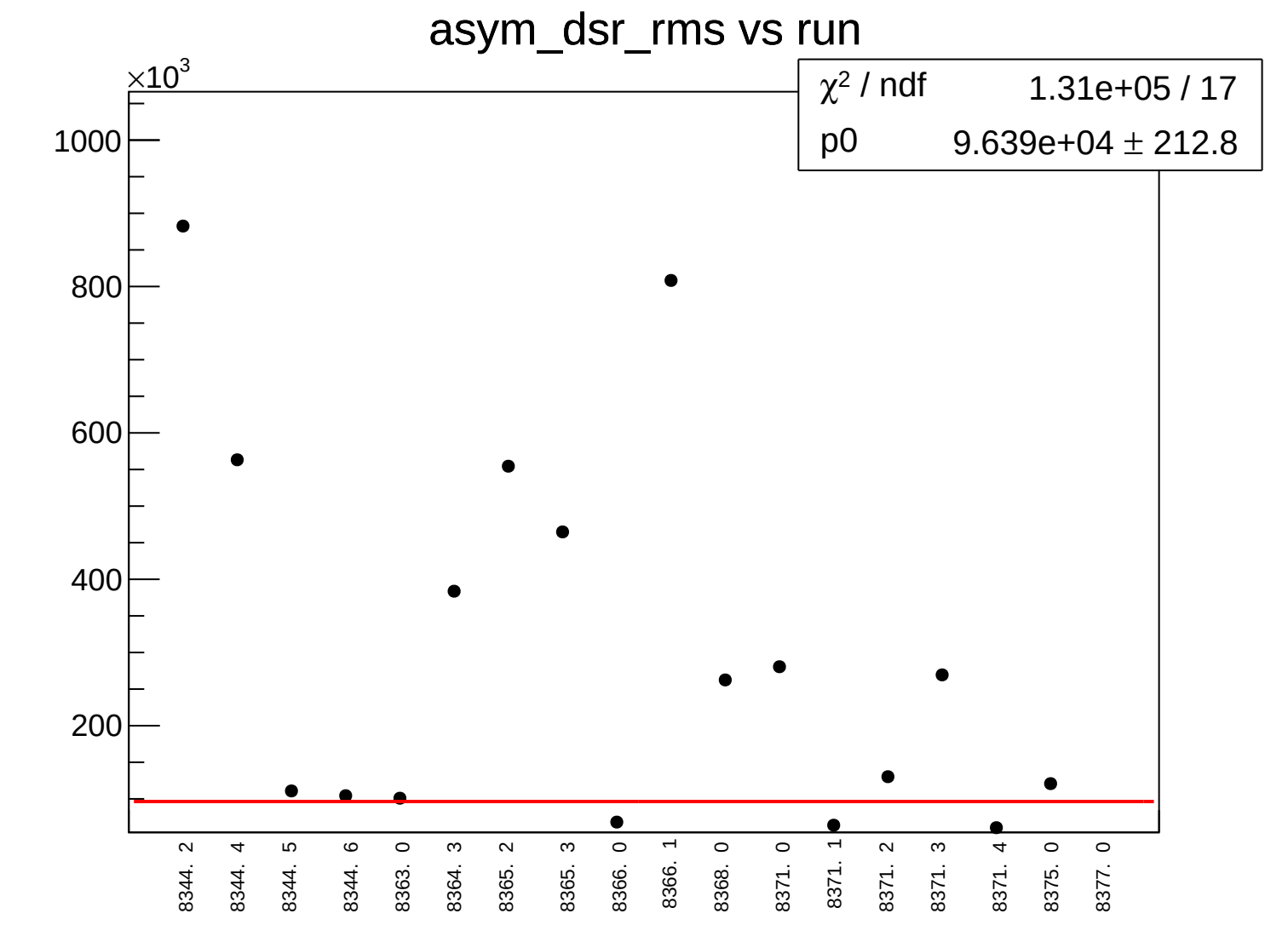

pull1D
Entries 34
Mean 0.1273
Std Dev 1.087
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

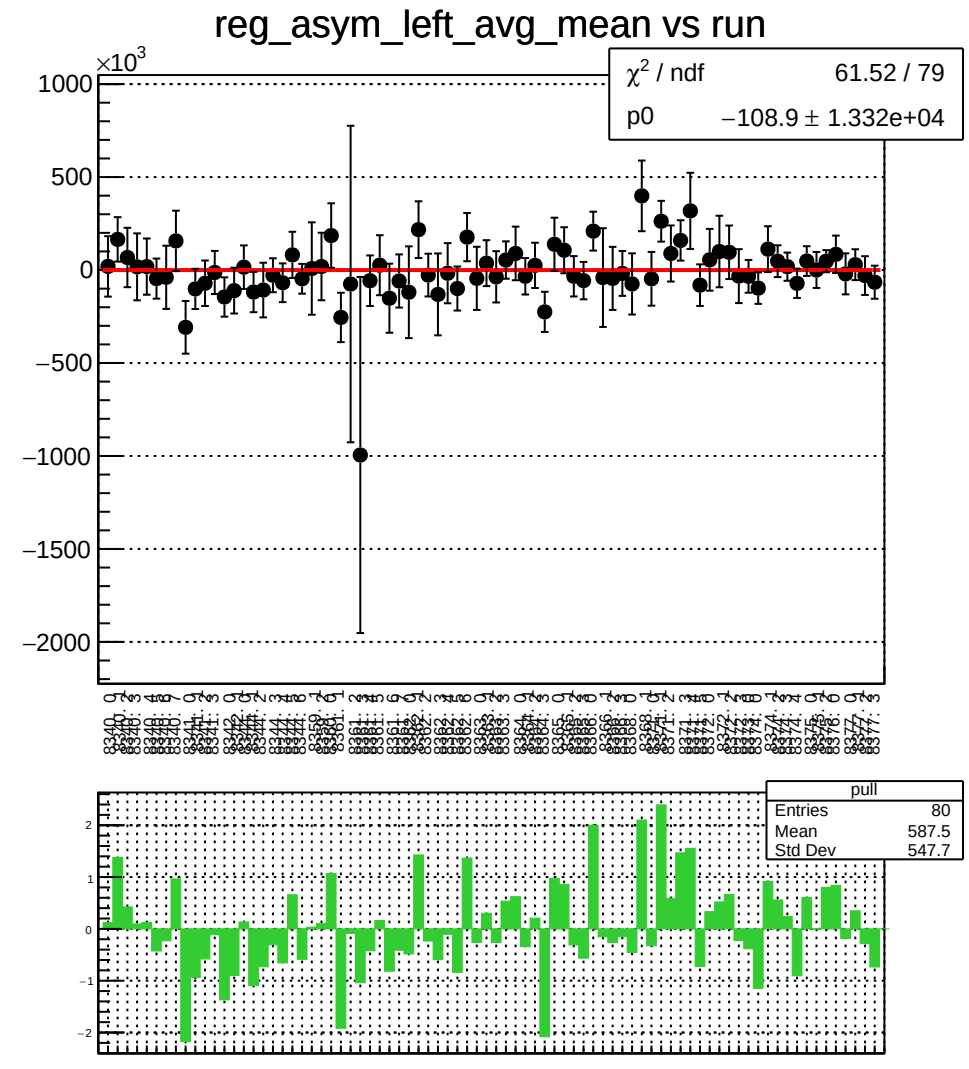

asym_dsr_correction_rms vs run
×10^3
χ² / ndf 1.216e+06 / 73
p0 2603 ± 5.042
900
800
700
600
500
400
300
200
100

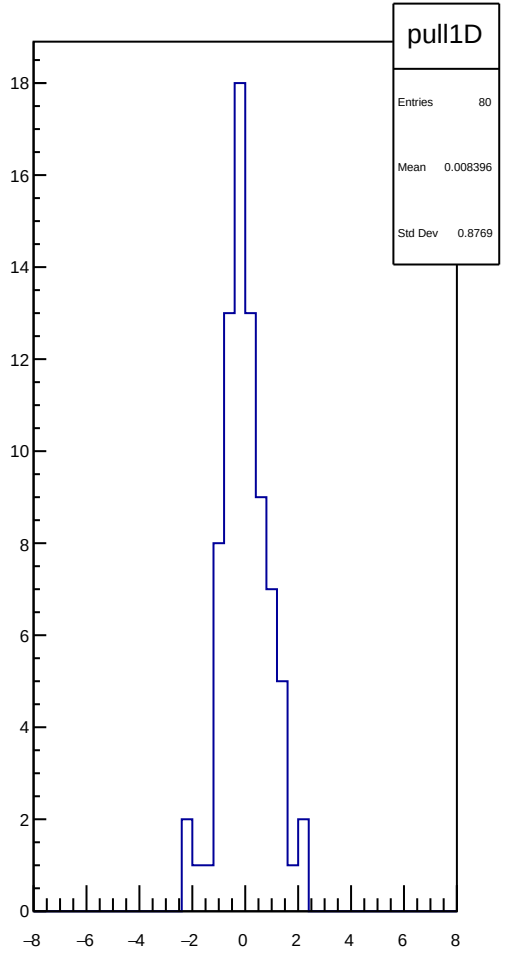

asym_dsr_mean vs run
×10^3
χ² / ndf 1.32 / 1
p0 −1.225e+05 ± 4.643e+05
1000
500
0
−500
−1000
−1500
8371. 1
8371. 4

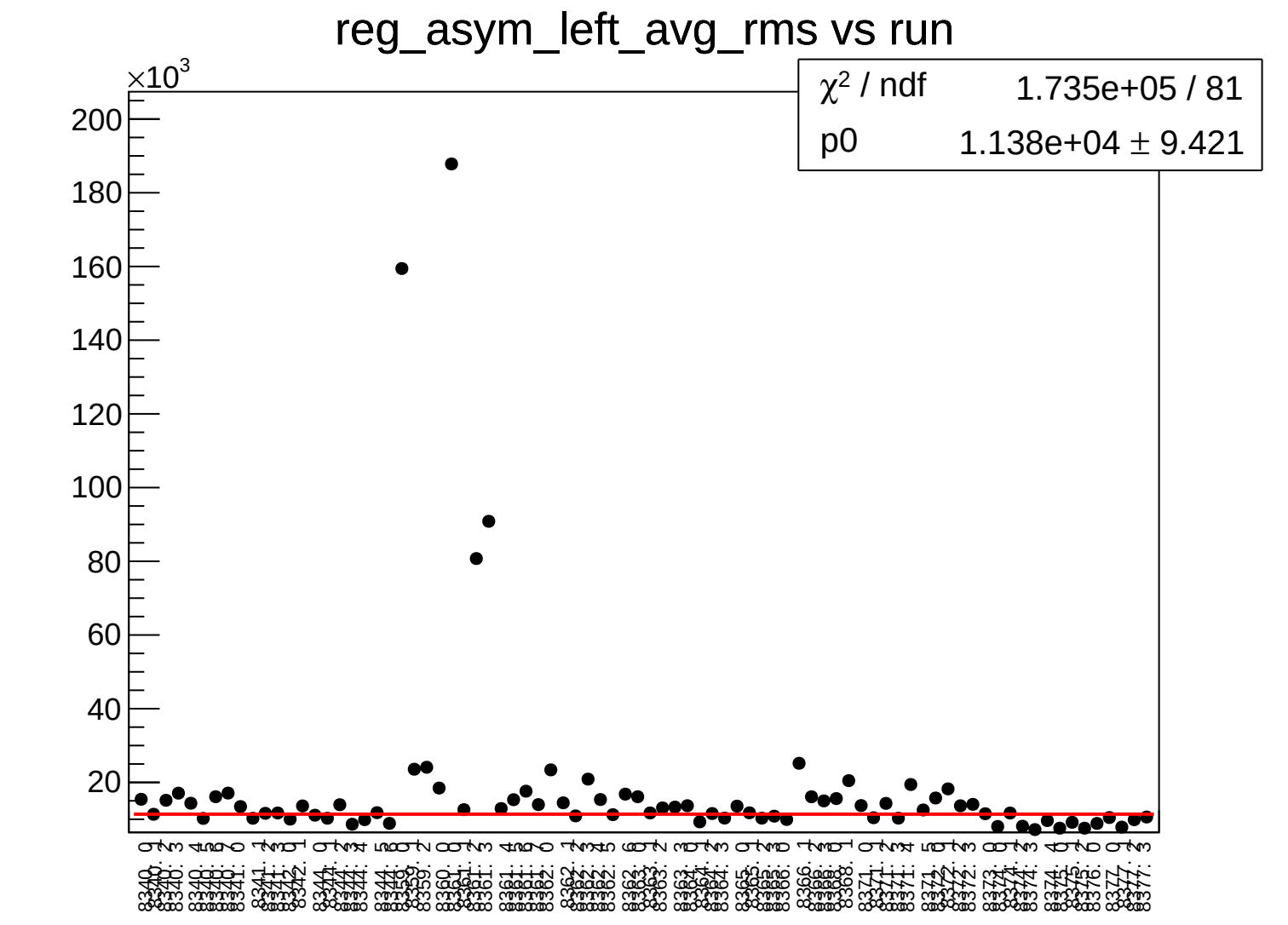

pull
Entries 2
Mean −17.43
Std Dev 18.42
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

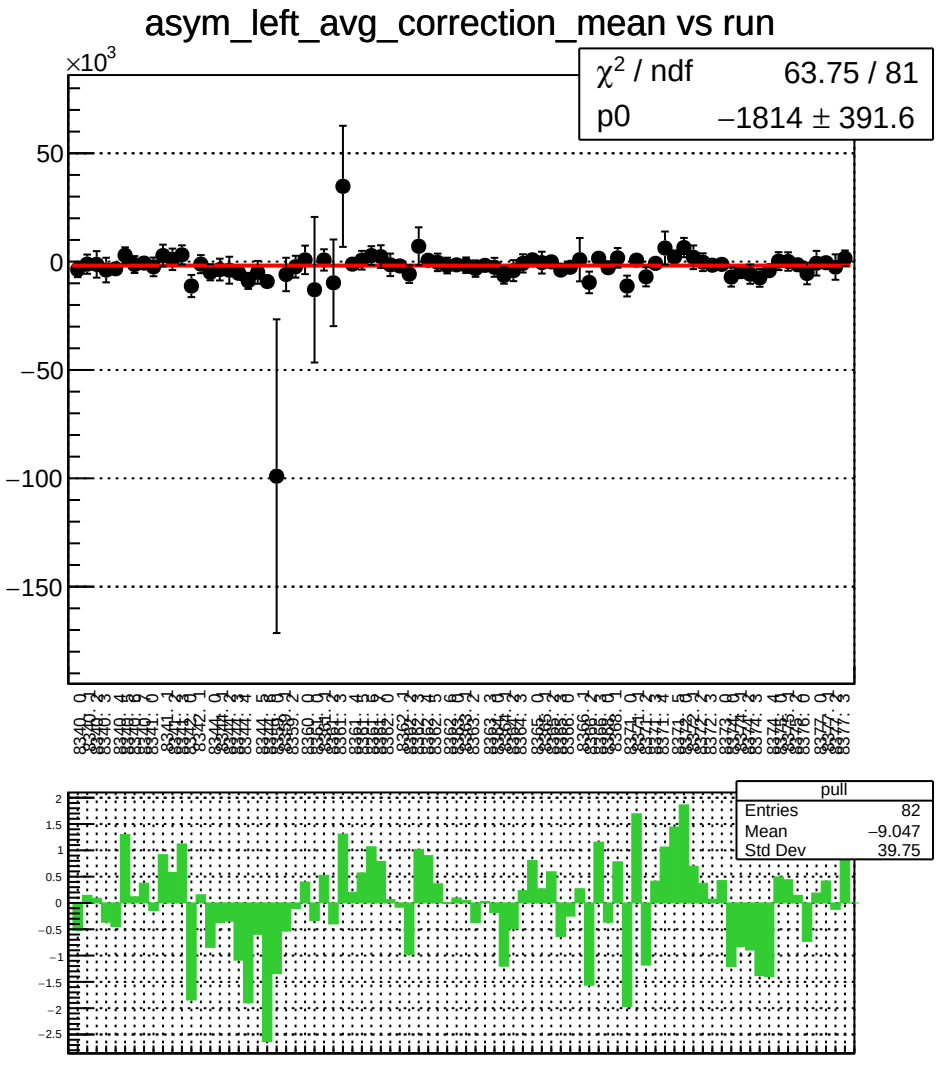

pull1D
Entries 2
Mean 0.02203
Std Dev 0.8121
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

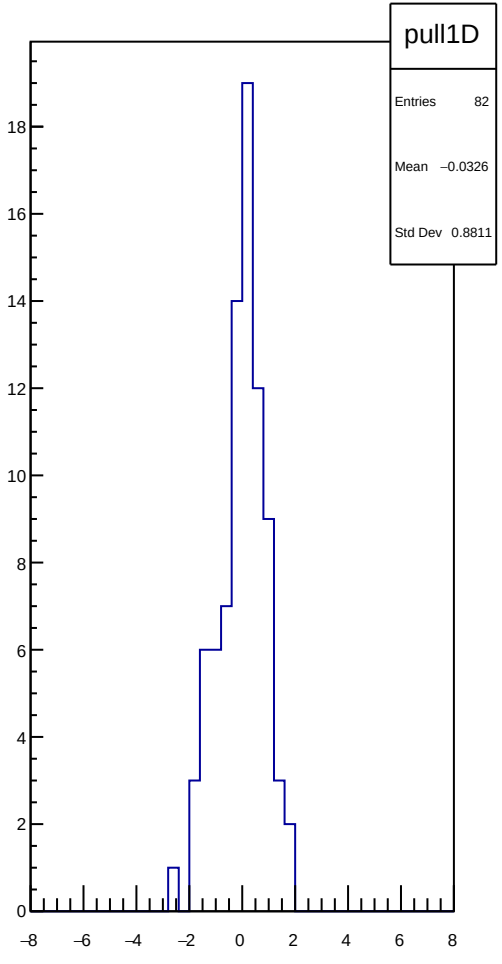

asym_dsr_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.31e+05 / 17
p0 9.639e+04 ± 212.8
8344. 2
8344. 4
8344. 5
8344. 6
8363. 0
8364. 3
8365. 2
8365. 3
8366. 0
8366. 1
8368. 0
8371. 0
8371. 1
8371. 2
8371. 3
8371. 4
8375. 0
8377. 0

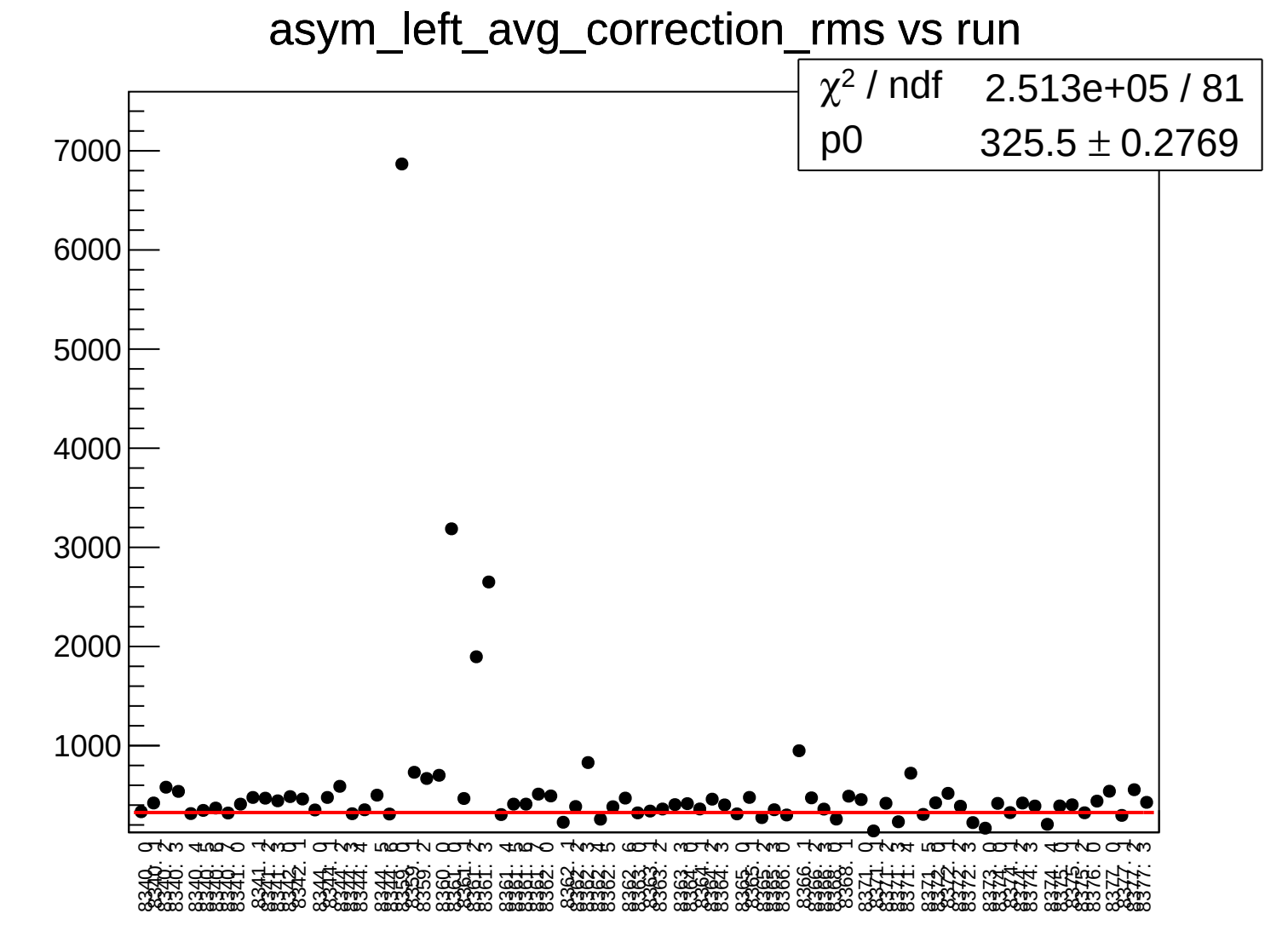

reg_asym_left_avg_mean vs run
×10^3
χ² / ndf 61.52 / 79
p0 −108.9 ± 1.332e+04
pull
Entries 80
Mean 587.5
Std Dev 547.7

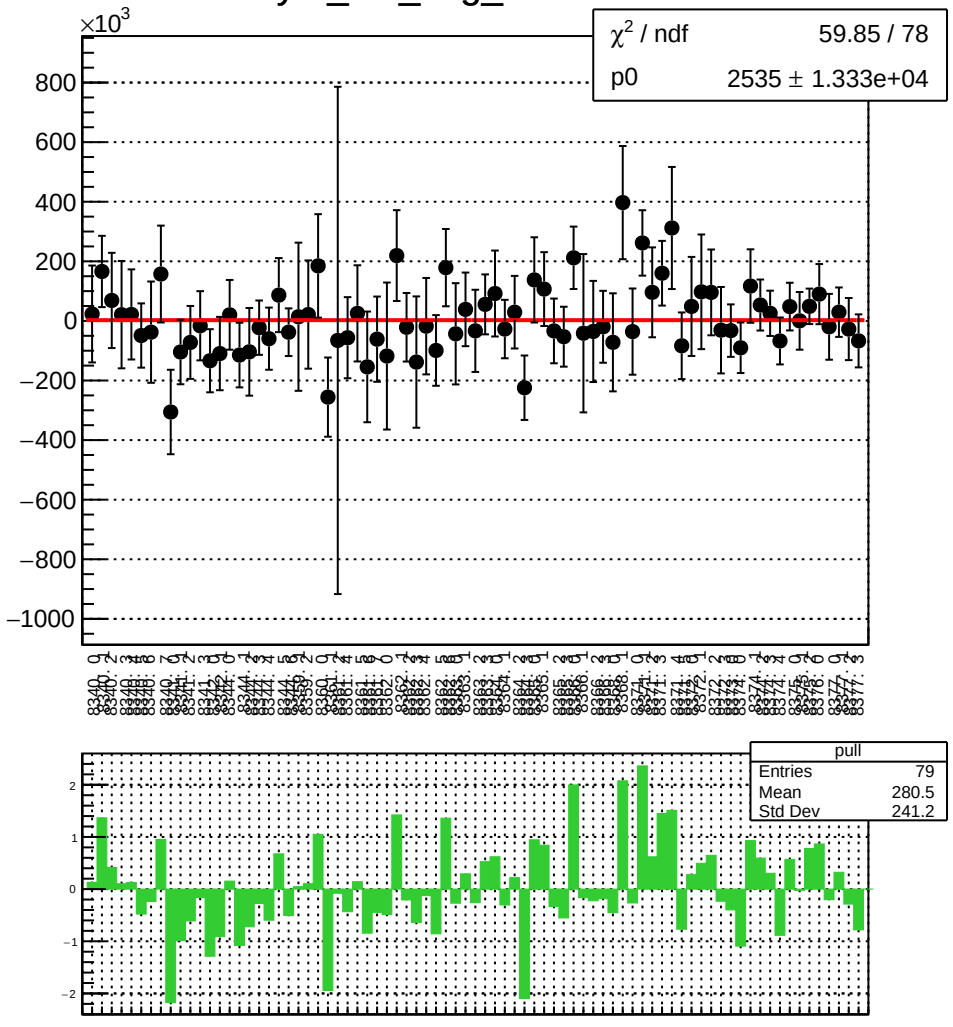

pull1D
Entries 80
Mean 0.008396
Std Dev 0.8769

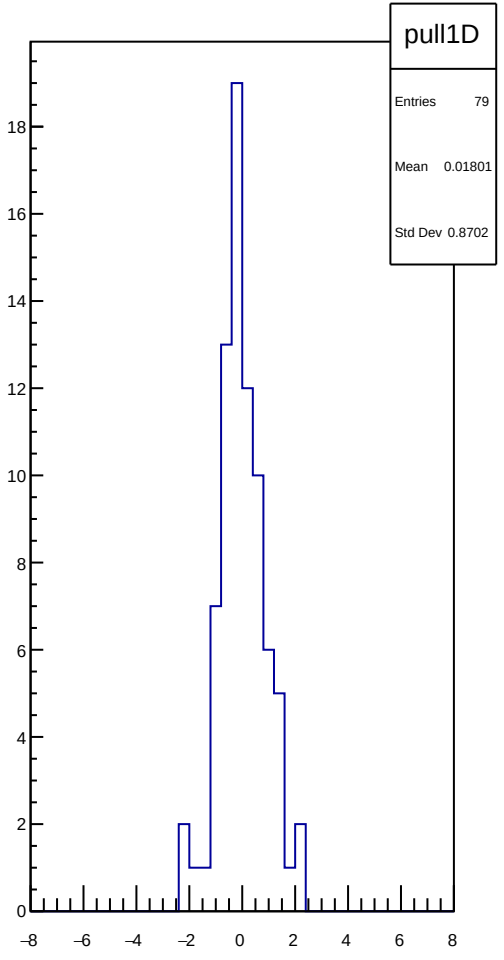

reg_asym_left_avg_rms vs run
×10^3
χ² / ndf 1.735e+05 / 81
p0 1.138e+04 ± 9.421
200
180
160
140
120
100
80
60
40
20

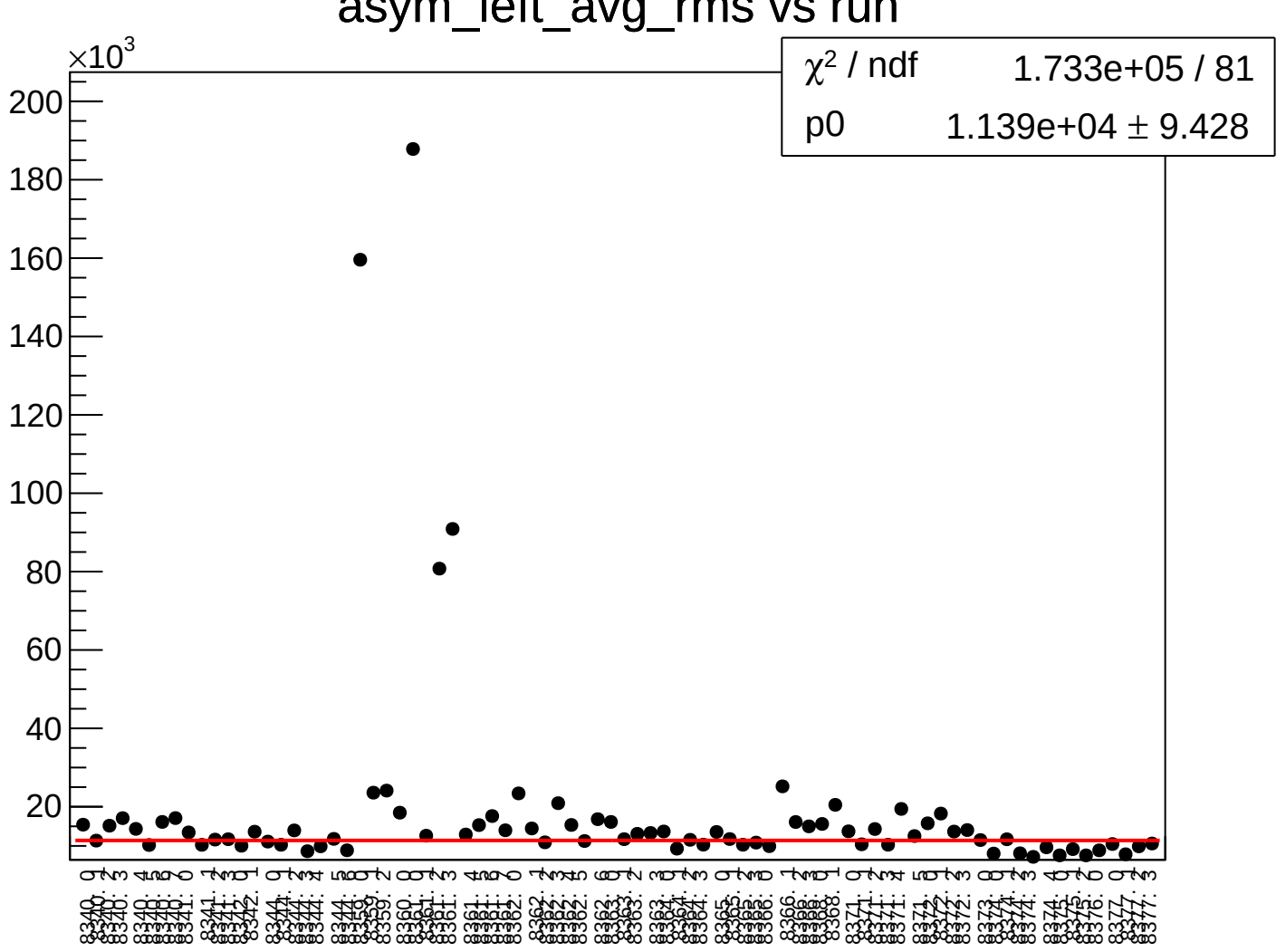

asym_left_avg_correction_mean vs run
×10^3
χ² / ndf 63.75 / 81
p0 −1814 ± 391.6
50
0
−50
−100
−150
pull
Entries 82
Mean −9.047
Std Dev 39.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

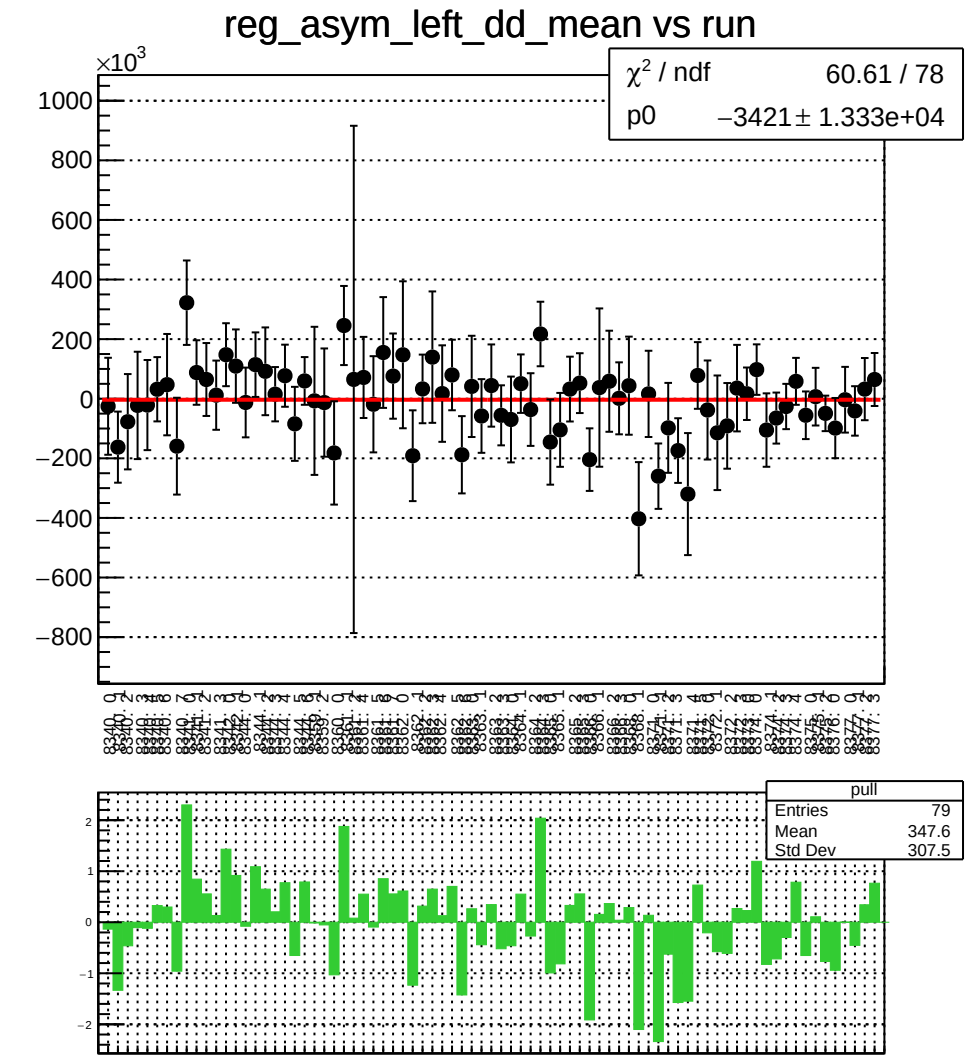

pull1D
Entries 82
Mean −0.0326
Std Dev 0.8811
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

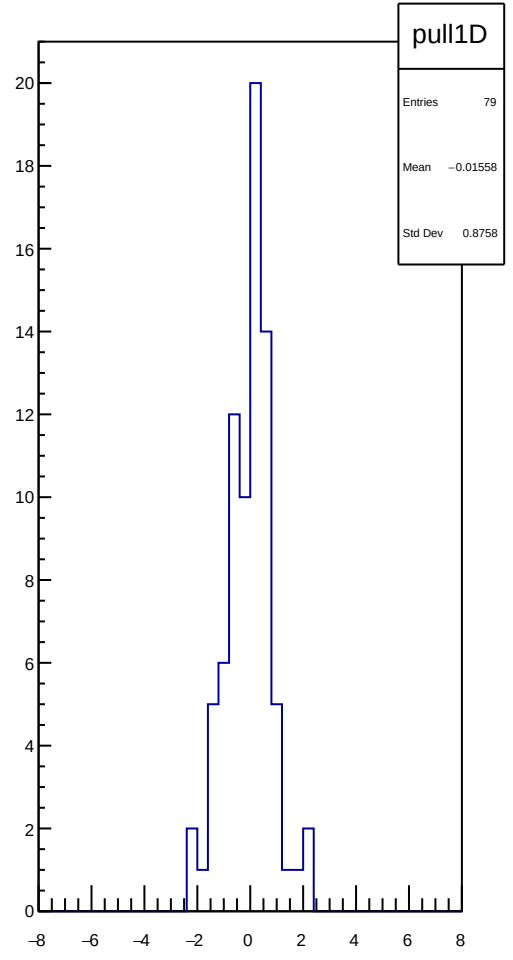

asym_left_avg_correction_rms vs run
χ^2 / ndf 2.513e+05 / 81
p0 325.5 ± 0.2769
7000
6000
5000
4000
3000
2000
1000

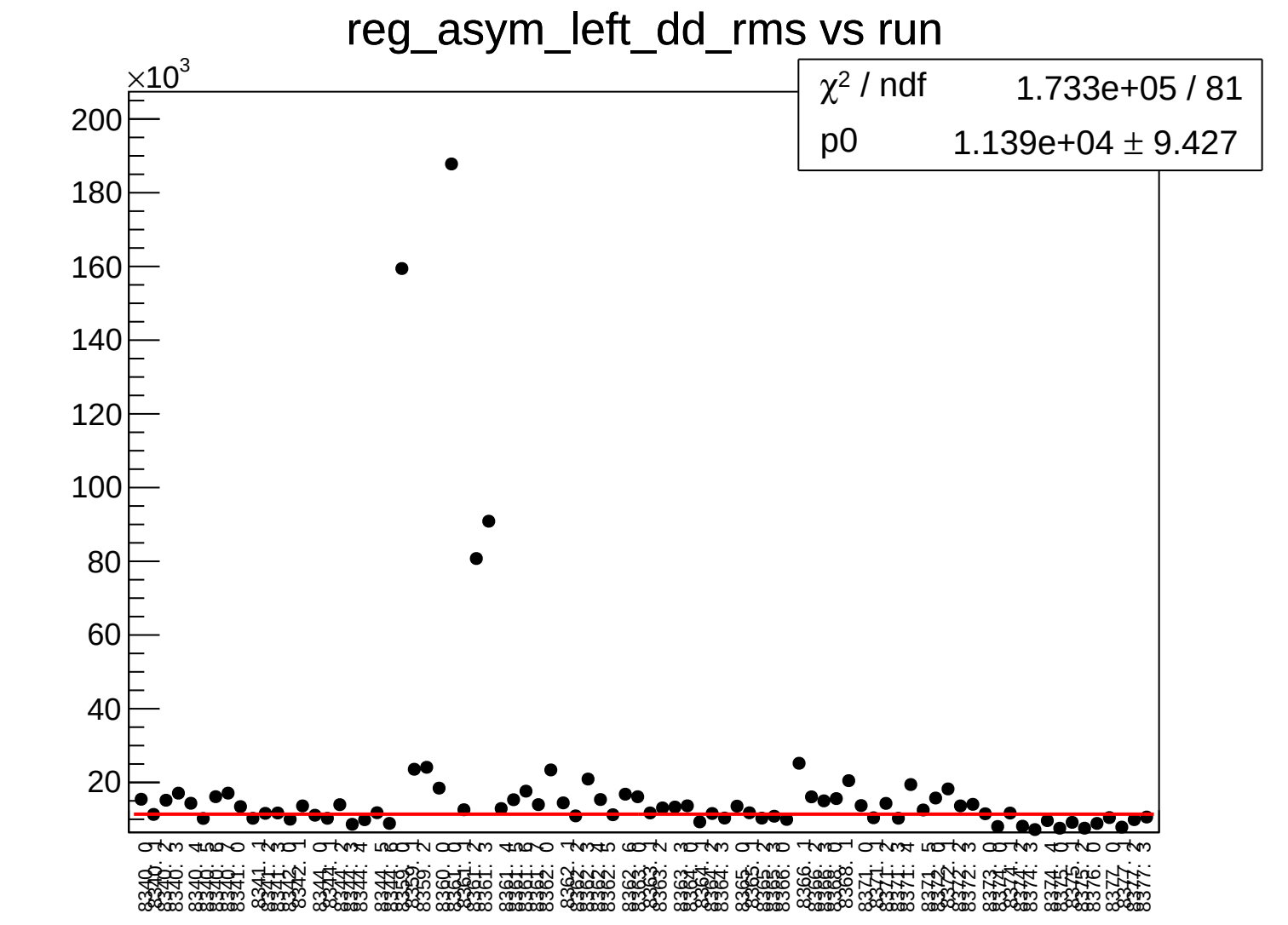

asym_left_avg_mean vs run
χ² / ndf 59.85 / 78
p0 2535 ± 1.333e+04
×10³
pull
Entries 79
Mean 280.5
Std Dev 241.2

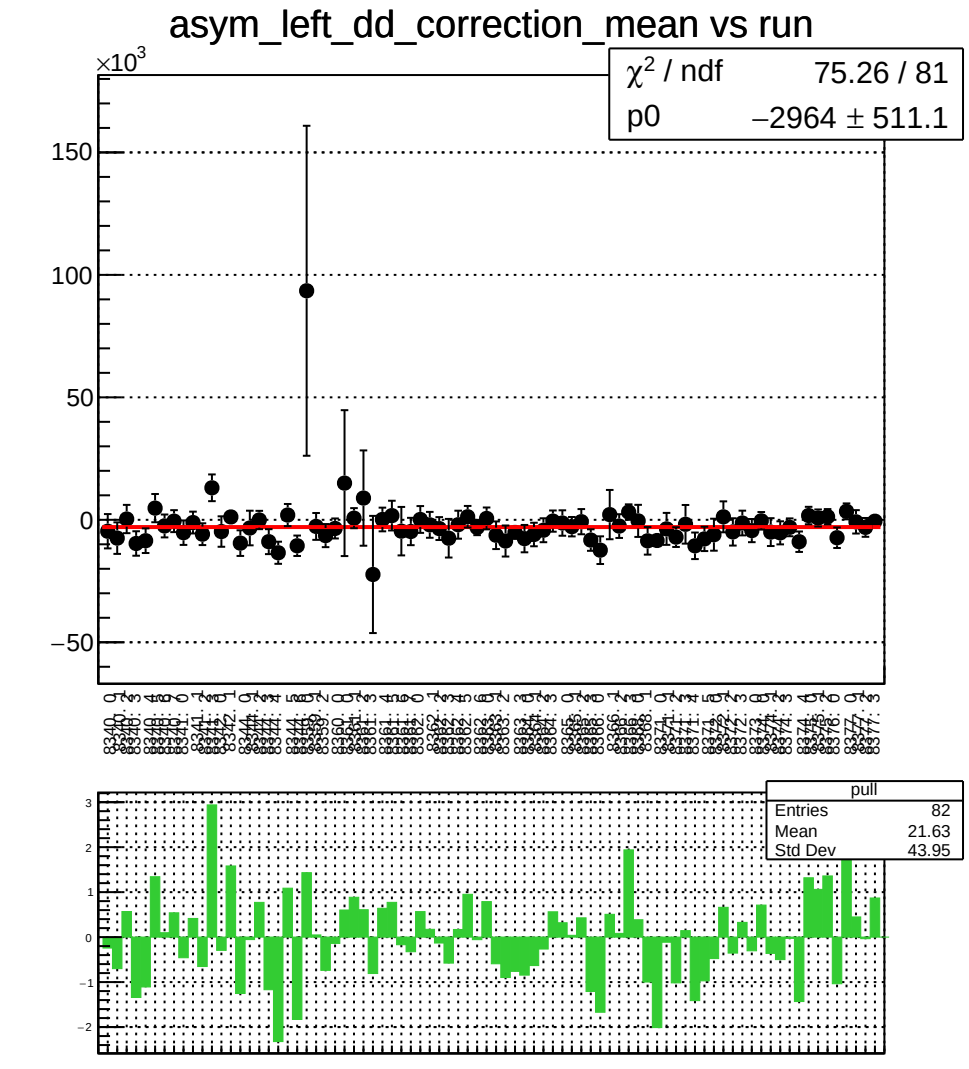

pull1D
Entries 79
Mean 0.01801
Std Dev 0.8702

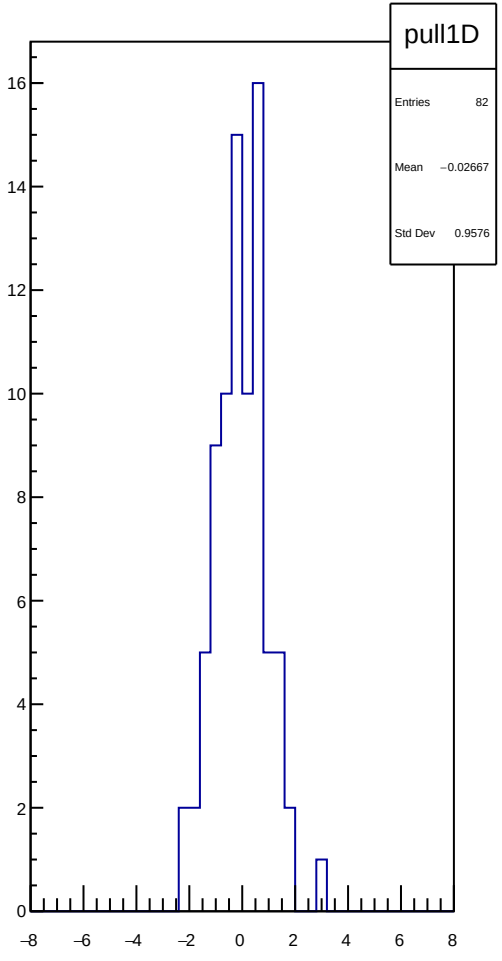

asym_left_avg_rms vs run
×10^3
χ² / ndf 1.733e+05 / 81
p0 1.139e+04 ± 9.428
200
180
160
140
120
100
80
60
40
20

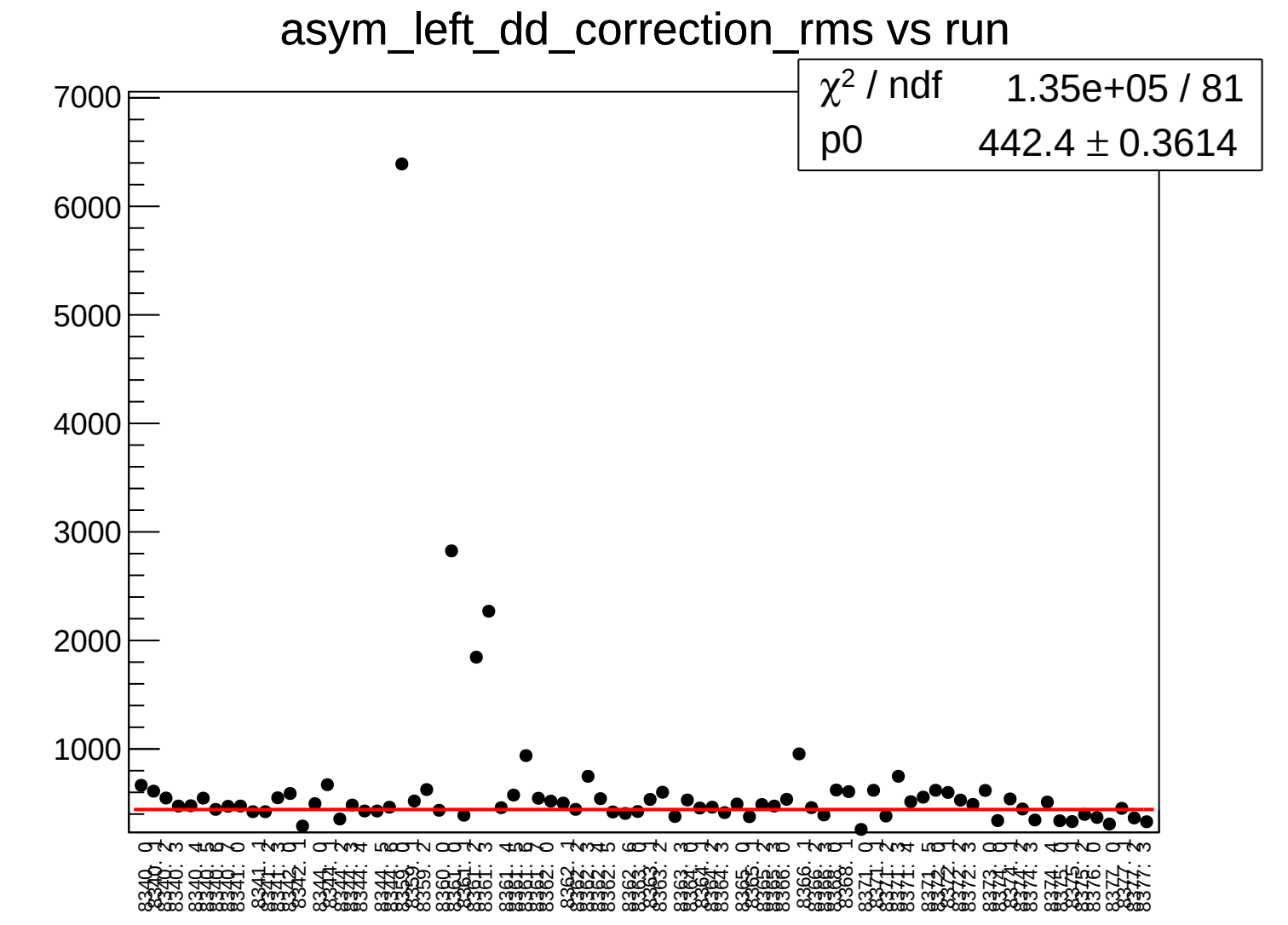

reg_asym_left_dd_mean vs run
×10^3
χ² / ndf 60.61 / 78
p0 −3421 ± 1.333e+04
pull
Entries 79
Mean 347.6
Std Dev 307.5

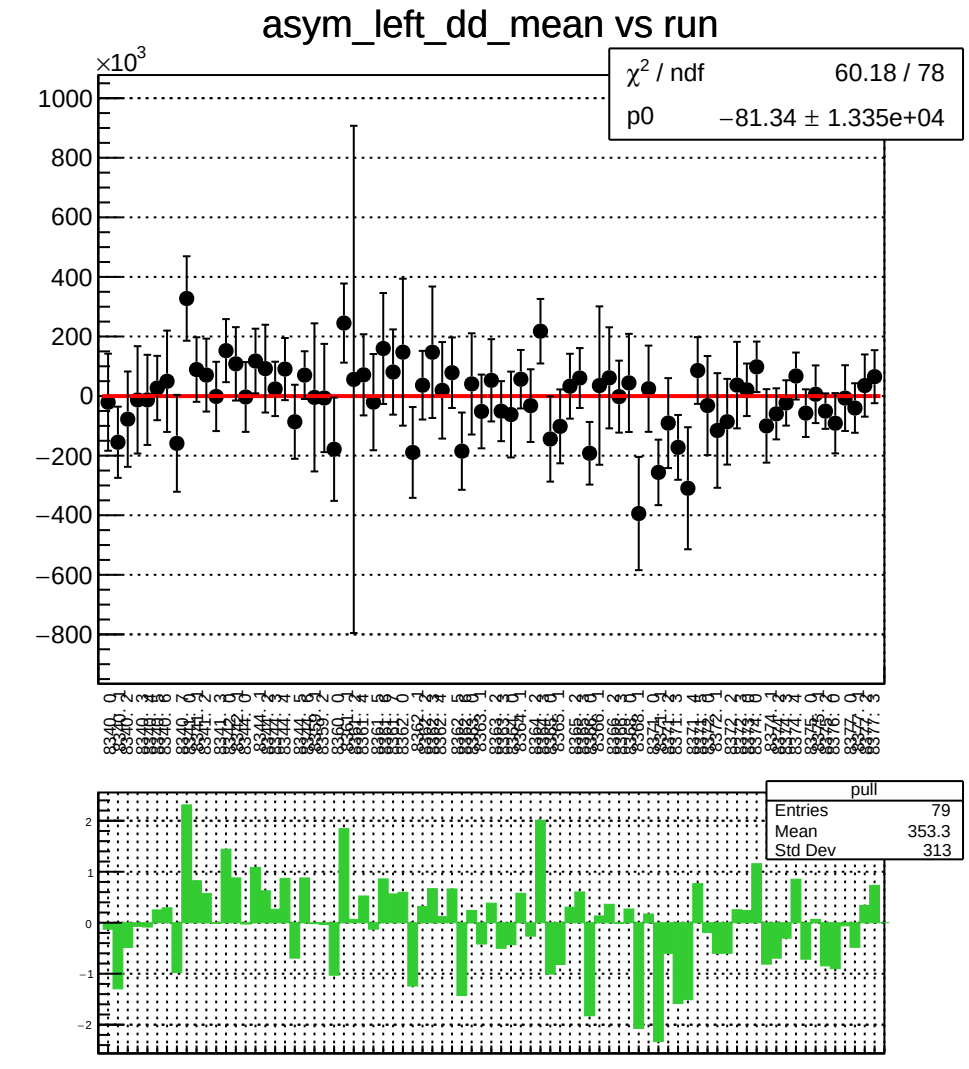

pull1D
Entries 79
Mean −0.01558
Std Dev 0.8758

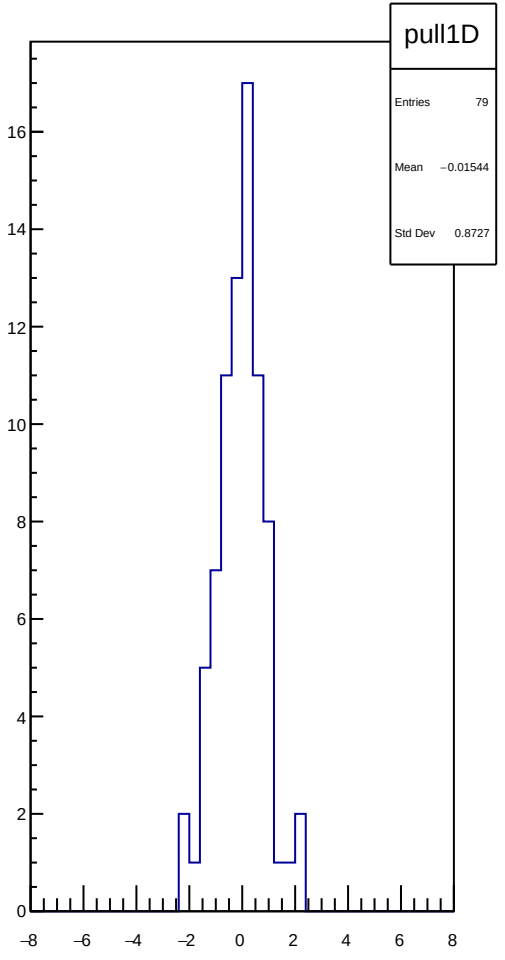

reg_asym_left_dd_rms vs run
×10^3
χ² / ndf 1.733e+05 / 81
p0 1.139e+04 ± 9.427
200
180
160
140
120
100
80
60
40
20

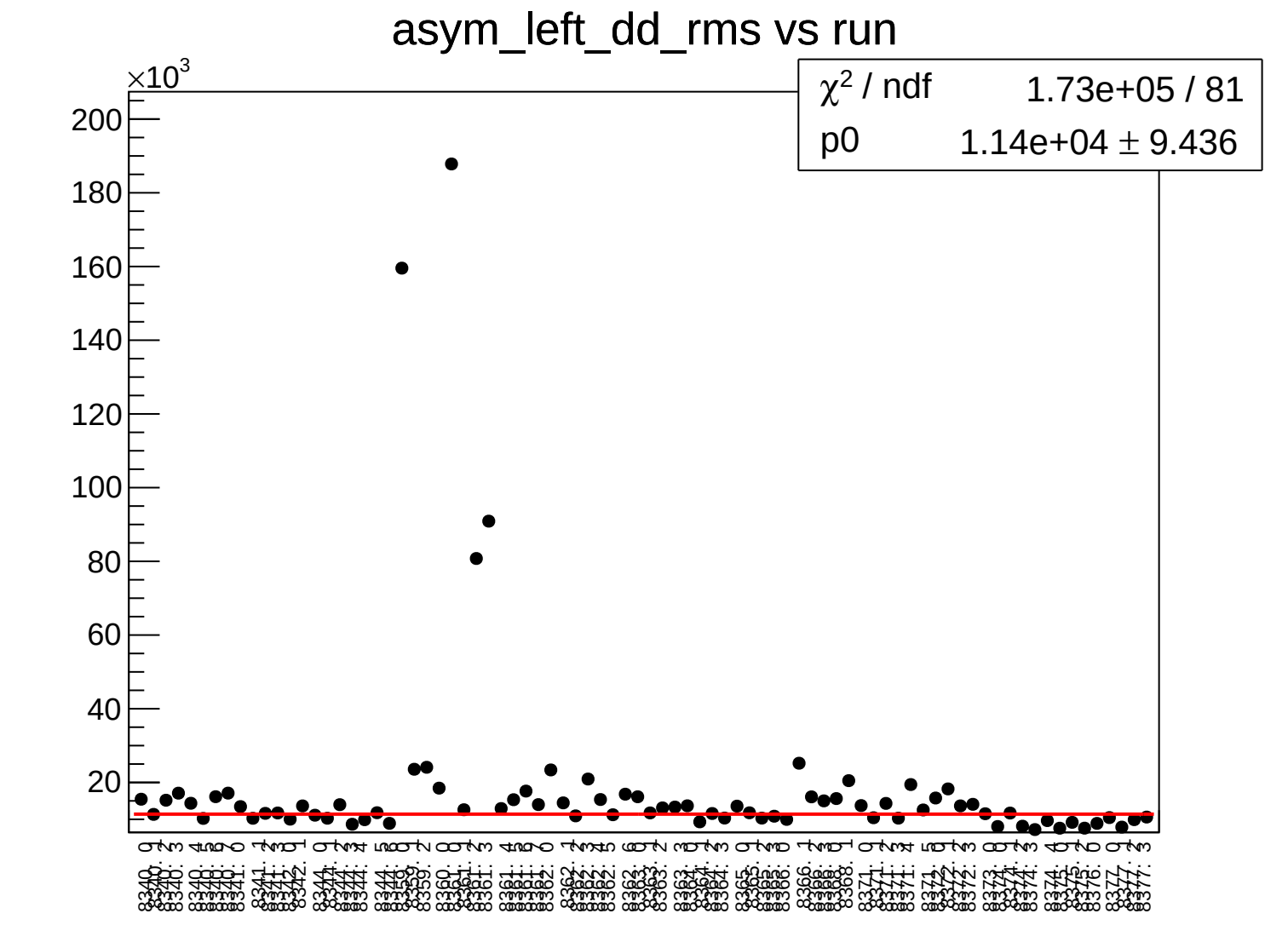

asym_left_dd_correction_mean vs run
×10^3
χ² / ndf 75.26 / 81
p0 −2964 ± 511.1
150
100
50
0
−50
pull
Entries 82
Mean 21.63
Std Dev 43.95
3
2
1
0
−1
−2

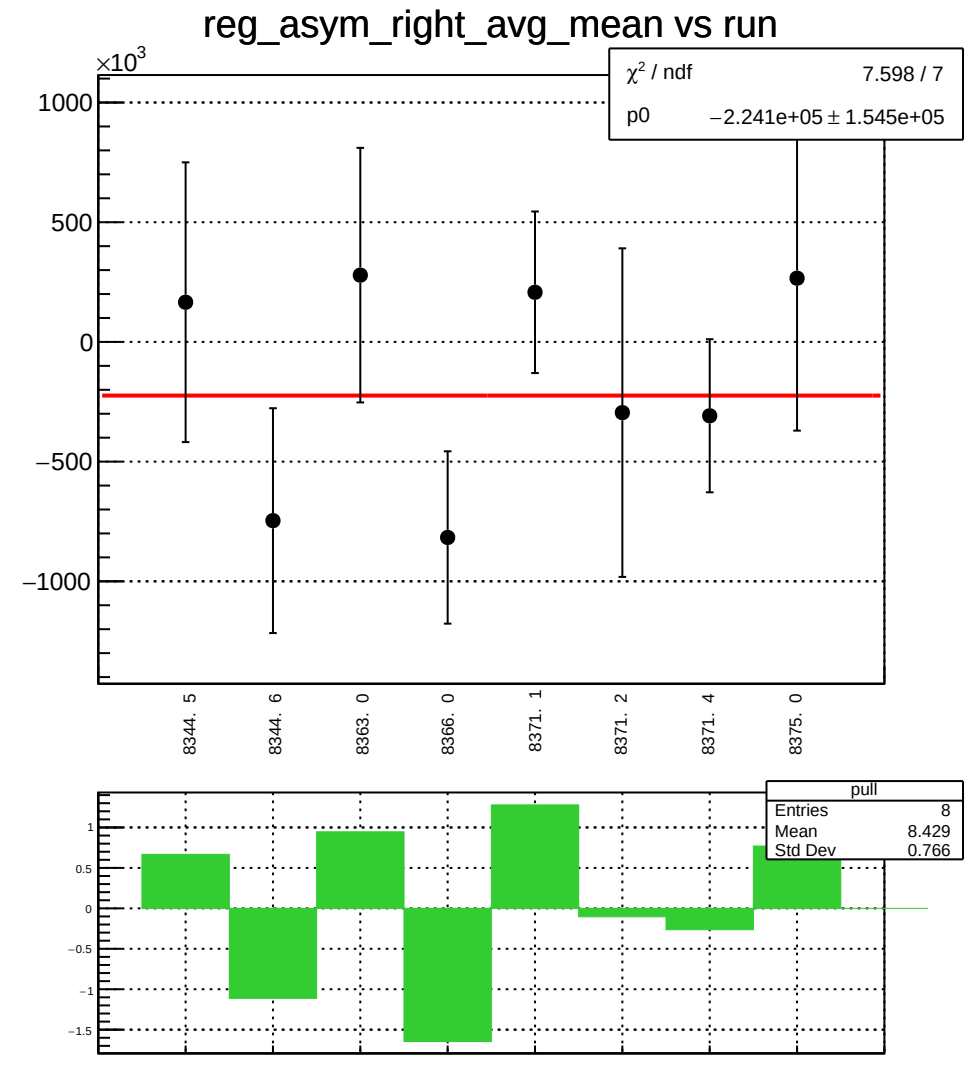

pull1D
Entries 82
Mean −0.02667
Std Dev 0.9576
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

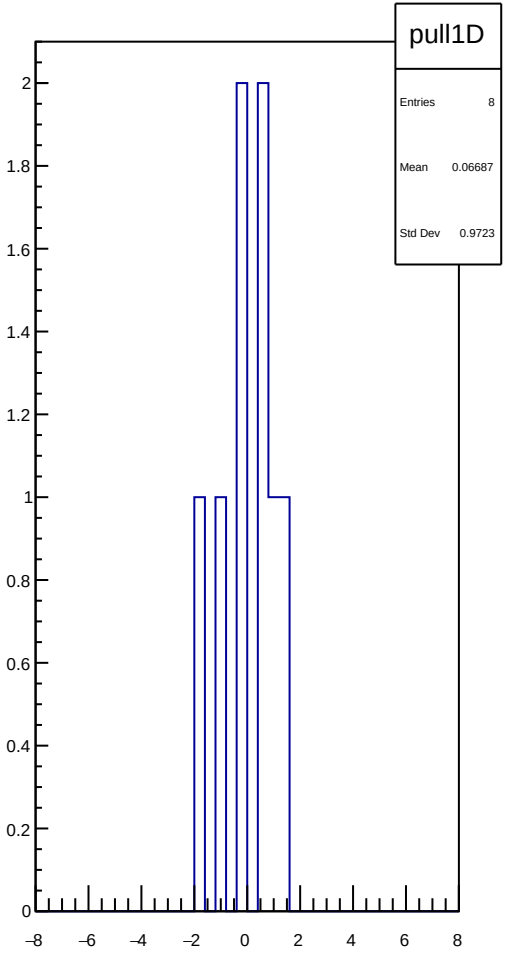

asym_left_dd_correction_rms vs run
χ² / ndf 1.35e+05 / 81
p0 442.4 ± 0.3614
7000
6000
5000
4000
3000
2000
1000

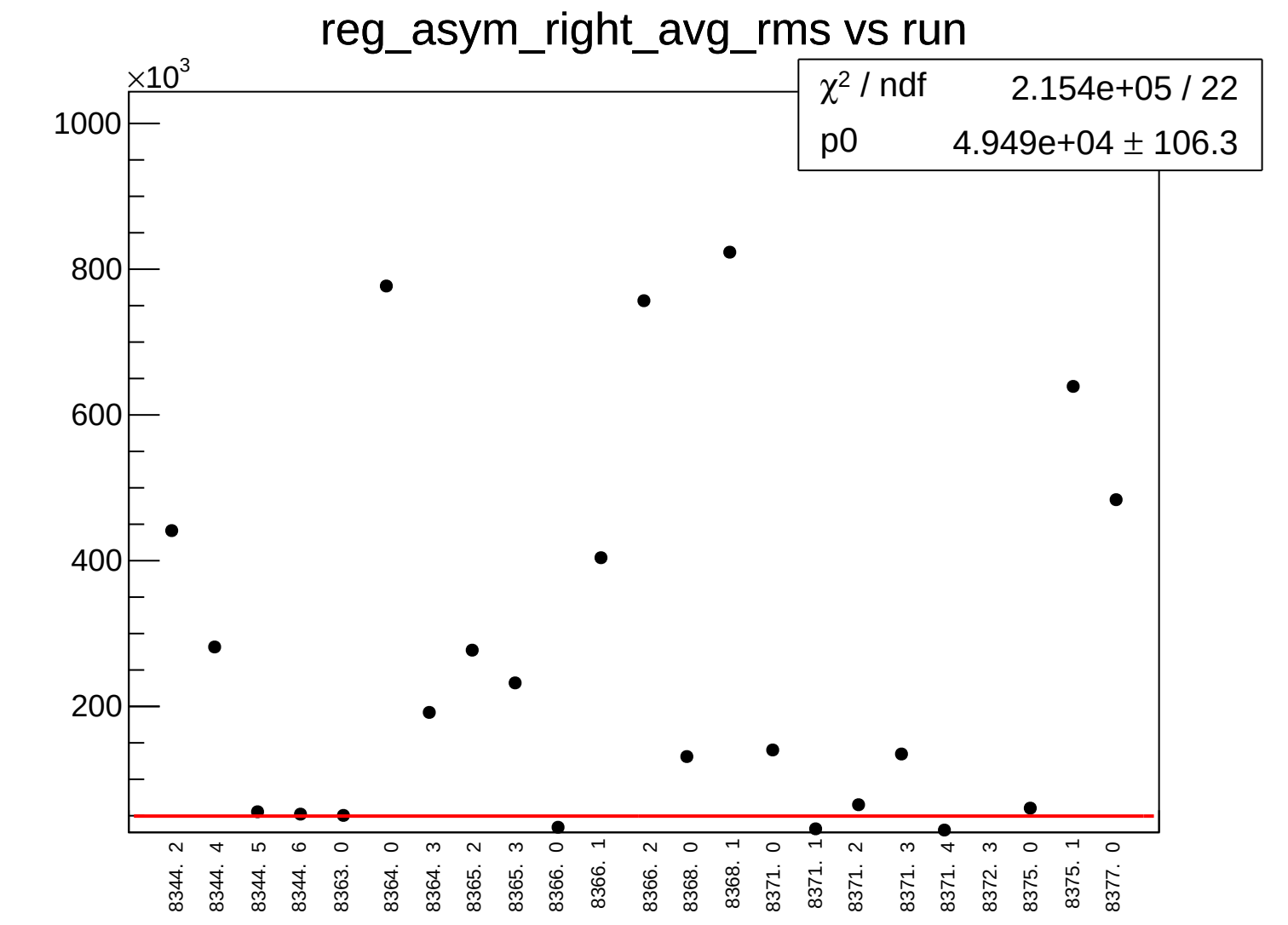

asym_left_dd_mean vs run
×10^3
χ² / ndf 60.18 / 78
p0 −81.34 ± 1.335e+04
pull
Entries 79
Mean 353.3
Std Dev 313

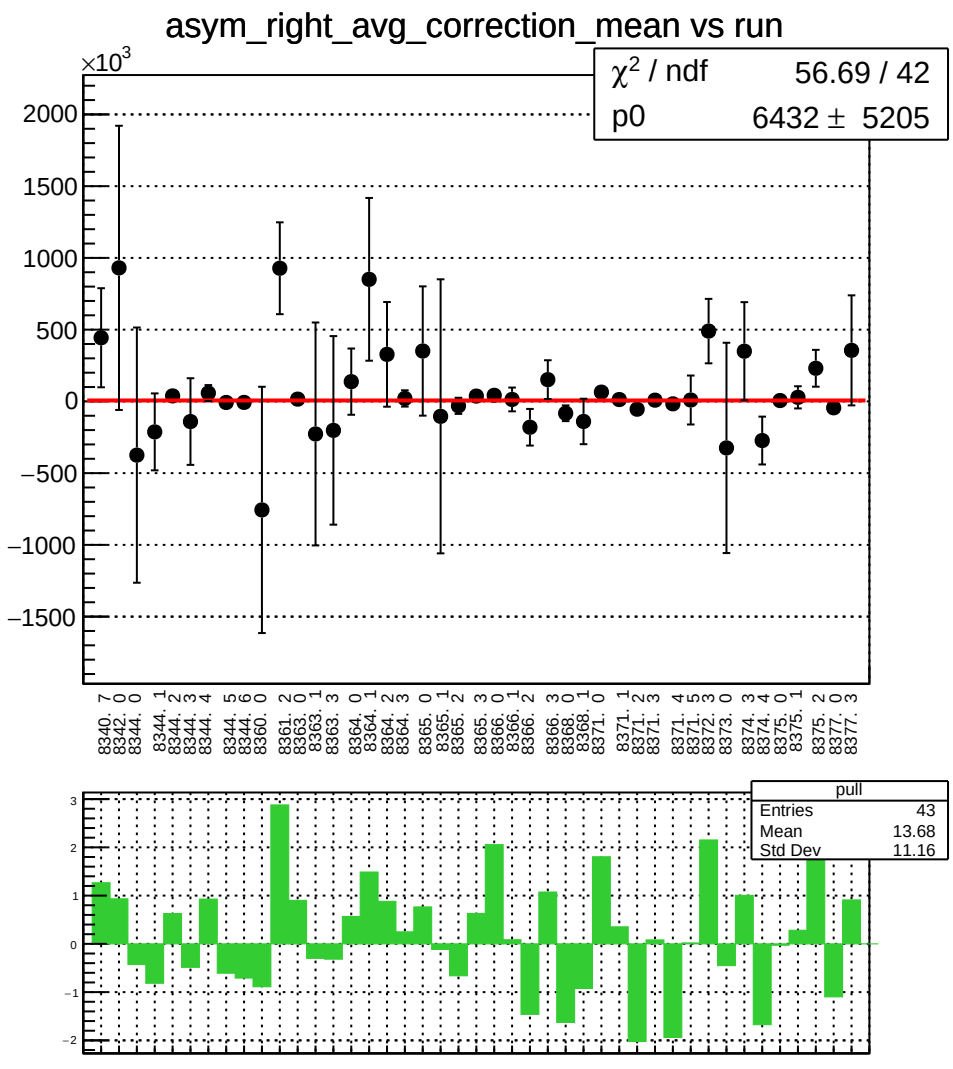

pull1D
Entries 79
Mean −0.01544
Std Dev 0.8727

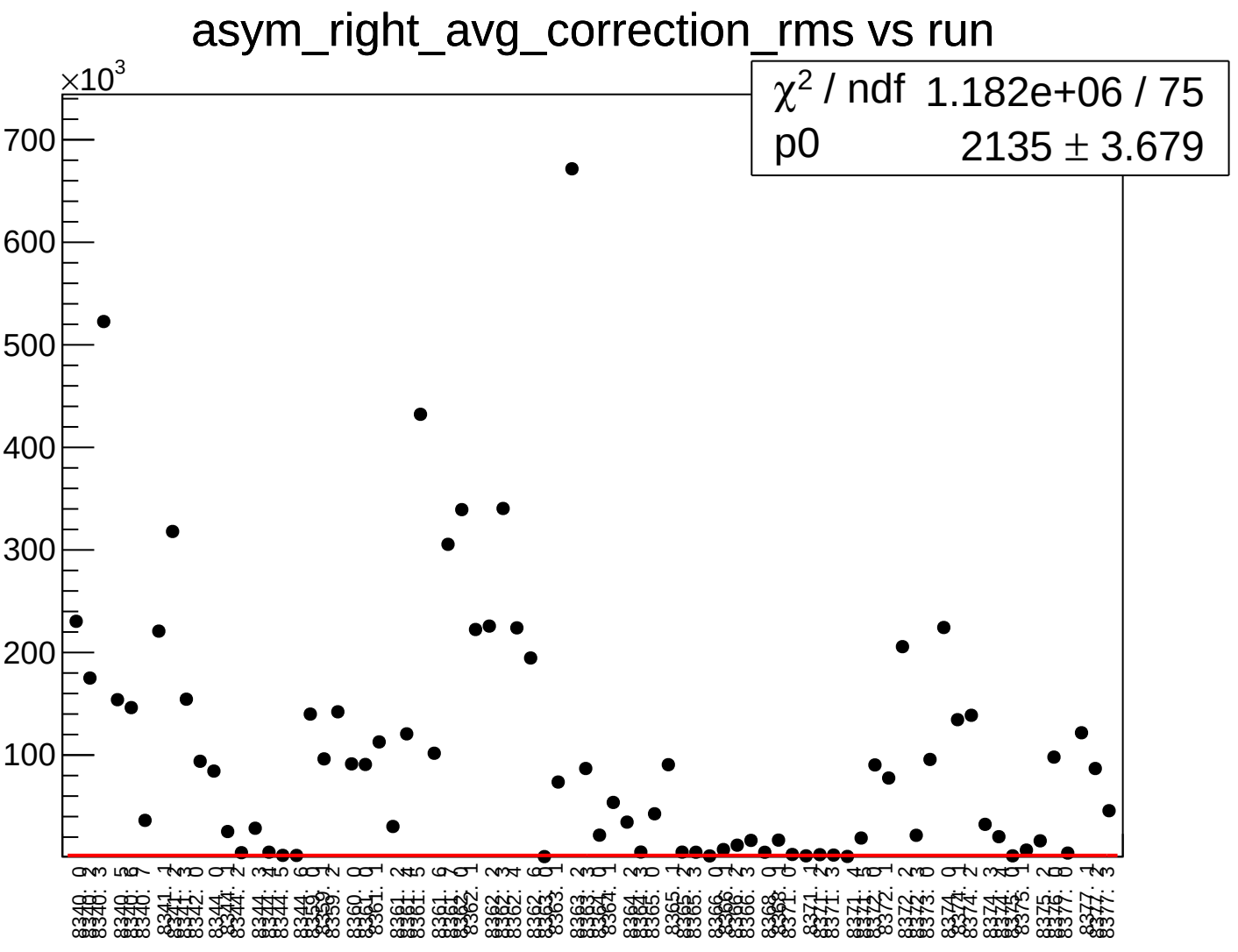

asym_left_dd_rms vs run
×10^3
χ^2 / ndf 1.73e+05 / 81
p0 1.14e+04 ± 9.436
200
180
160
140
120
100
80
60
40
20

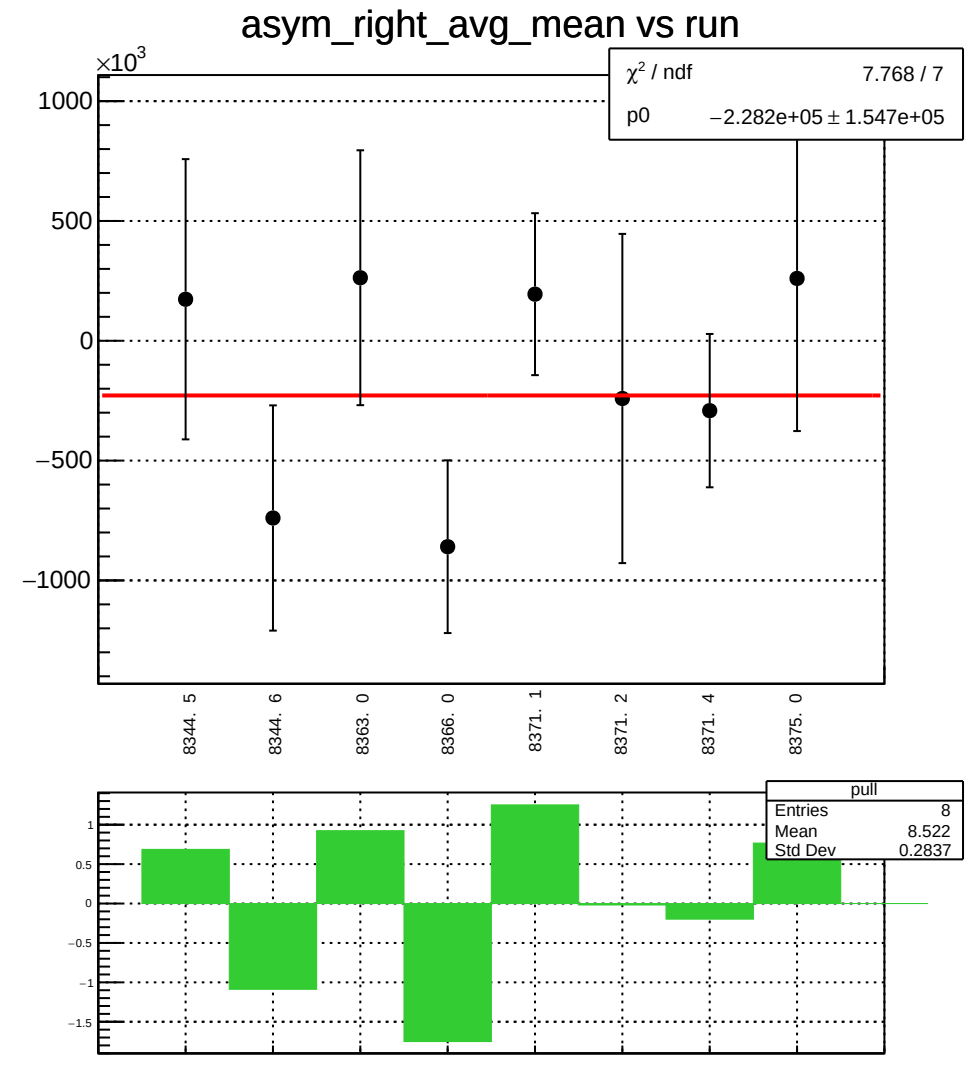

reg_asym_right_avg_mean vs run
×10^3
χ² / ndf 7.598 / 7
p0 −2.241e+05 ± 1.545e+05
1000
500
0
−500
−1000
8344. 5
8344. 6
8363. 0
8366. 0
8371. 1
8371. 2
8371. 4
8375. 0
pull
Entries 8
Mean 8.429
Std Dev 0.766
1
0.5
0
−0.5
−1
−1.5

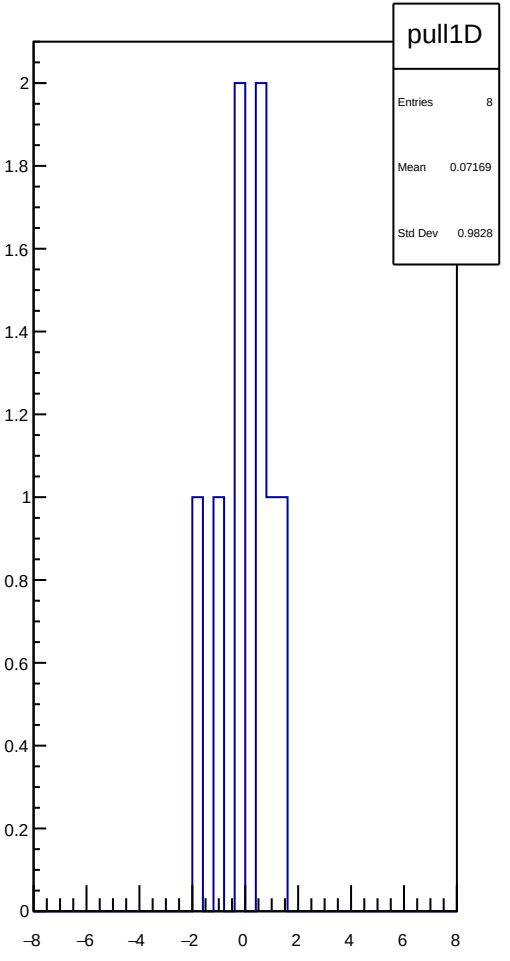

pull1D
Entries 8
Mean 0.06687
Std Dev 0.9723
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

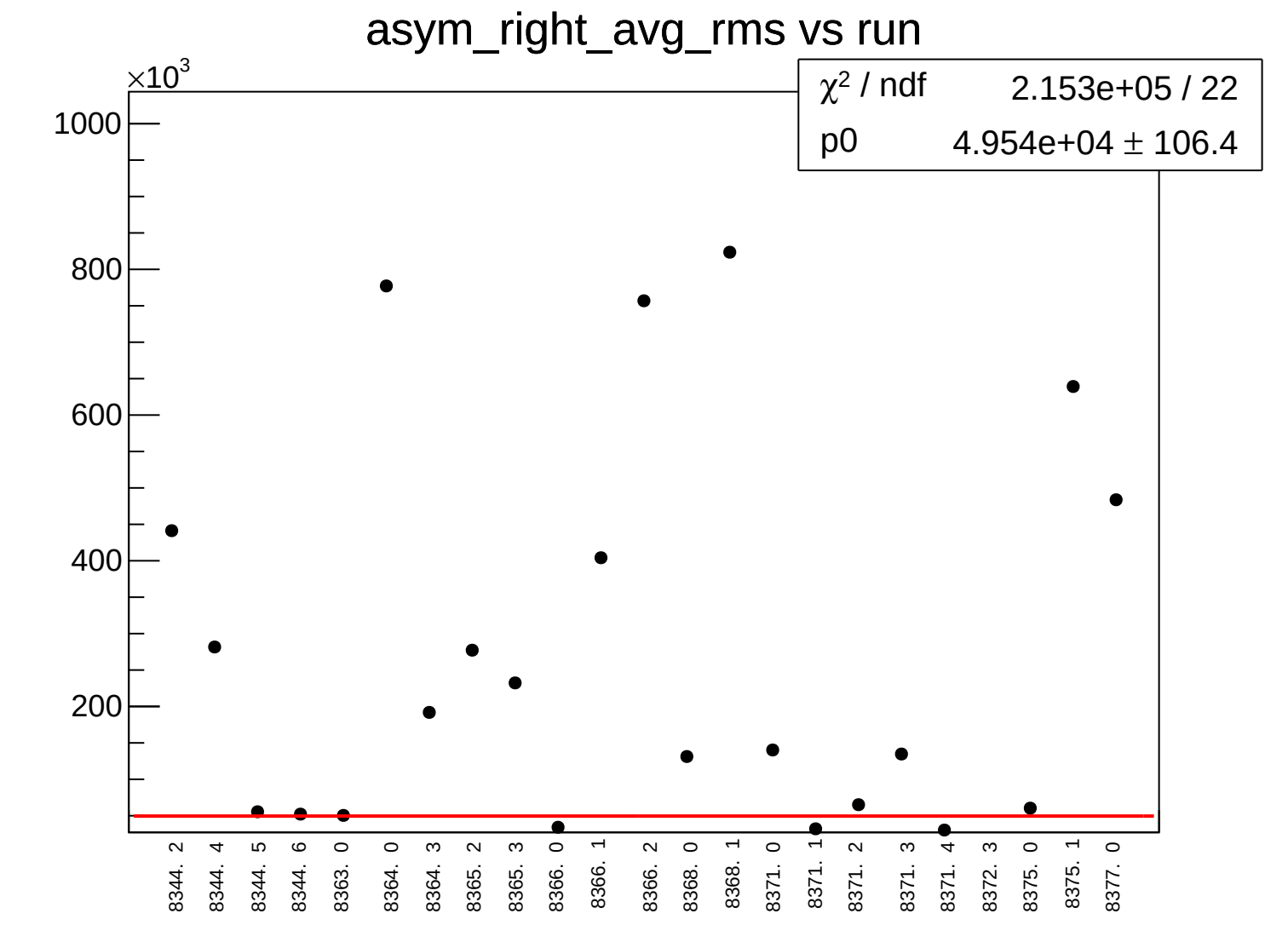

reg_asym_right_avg_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 2.154e+05 / 22
p0 4.949e+04 ± 106.3
8344. 2
8344. 4
8344. 5
8344. 6
8363. 0
8364. 0
8364. 3
8365. 2
8365. 3
8366. 0
8366. 1
8366. 2
8368. 0
8368. 1
8371. 0
8371. 1
8371. 2
8371. 3
8371. 4
8372. 3
8375. 0
8375. 1
8377. 0

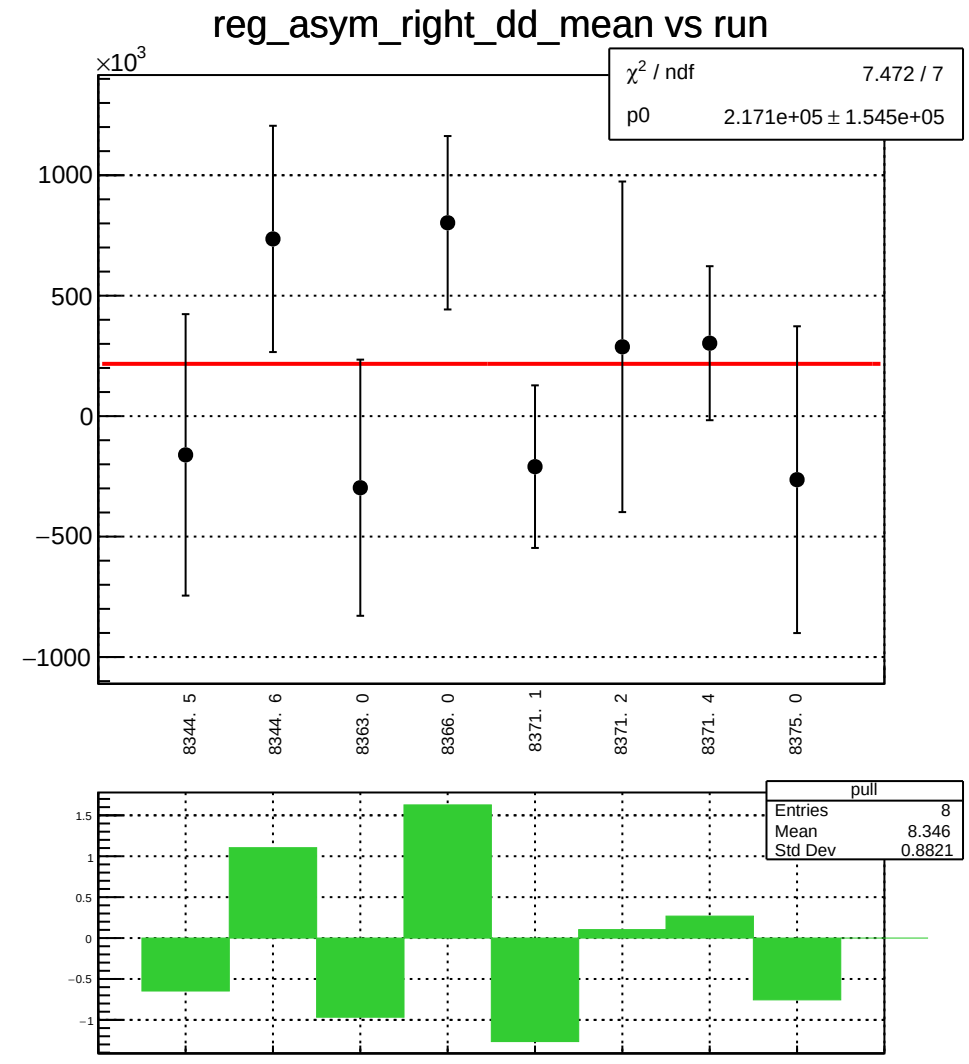

asym_right_avg_correction_mean vs run
×10^3
χ² / ndf 56.69 / 42
p0 6432 ± 5205
2000
1500
1000
500
0
−500
−1000
−1500
8340. 7
8342. 0
8344. 0
8344. 1
8344. 2
8344. 3
8344. 4
8344. 5
8344. 6
8360. 0
8361. 2
8363. 0
8363. 1
8363. 3
8364. 0
8364. 1
8364. 2
8364. 3
8365. 0
8365. 1
8365. 2
8365. 3
8366. 0
8366. 1
8366. 2
8366. 3
8368. 0
8368. 1
8371. 0
8371. 1
8371. 2
8371. 3
8371. 4
8371. 5
8372. 3
8373. 0
8374. 3
8374. 4
8375. 0
8375. 1
8375. 2
8377. 0
8377. 3
pull
Entries 43
Mean 13.68
Std Dev 11.16
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.1658
Std Dev 1.136
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

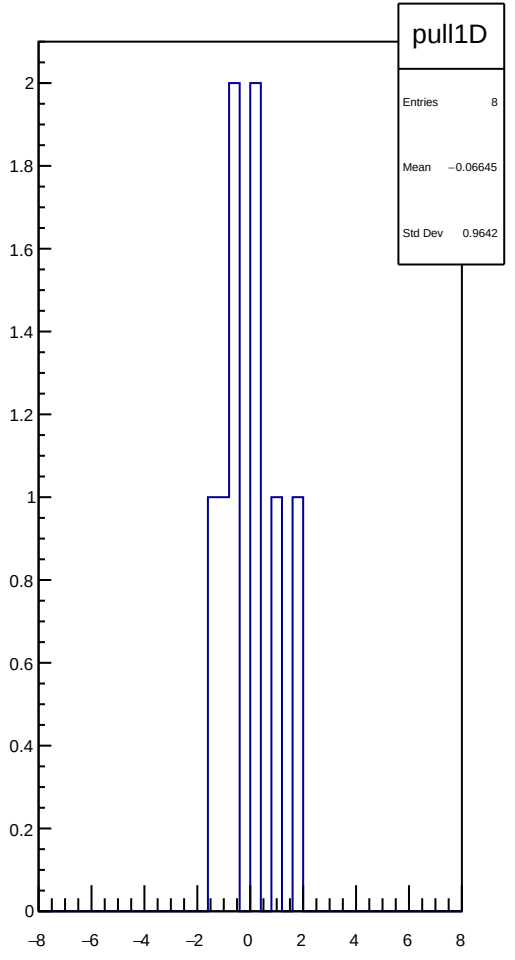

asym_right_avg_correction_rms vs run
×10^3
χ^2 / ndf 1.182e+06 / 75
p0 2135 ± 3.679
700
600
500
400
300
200
100

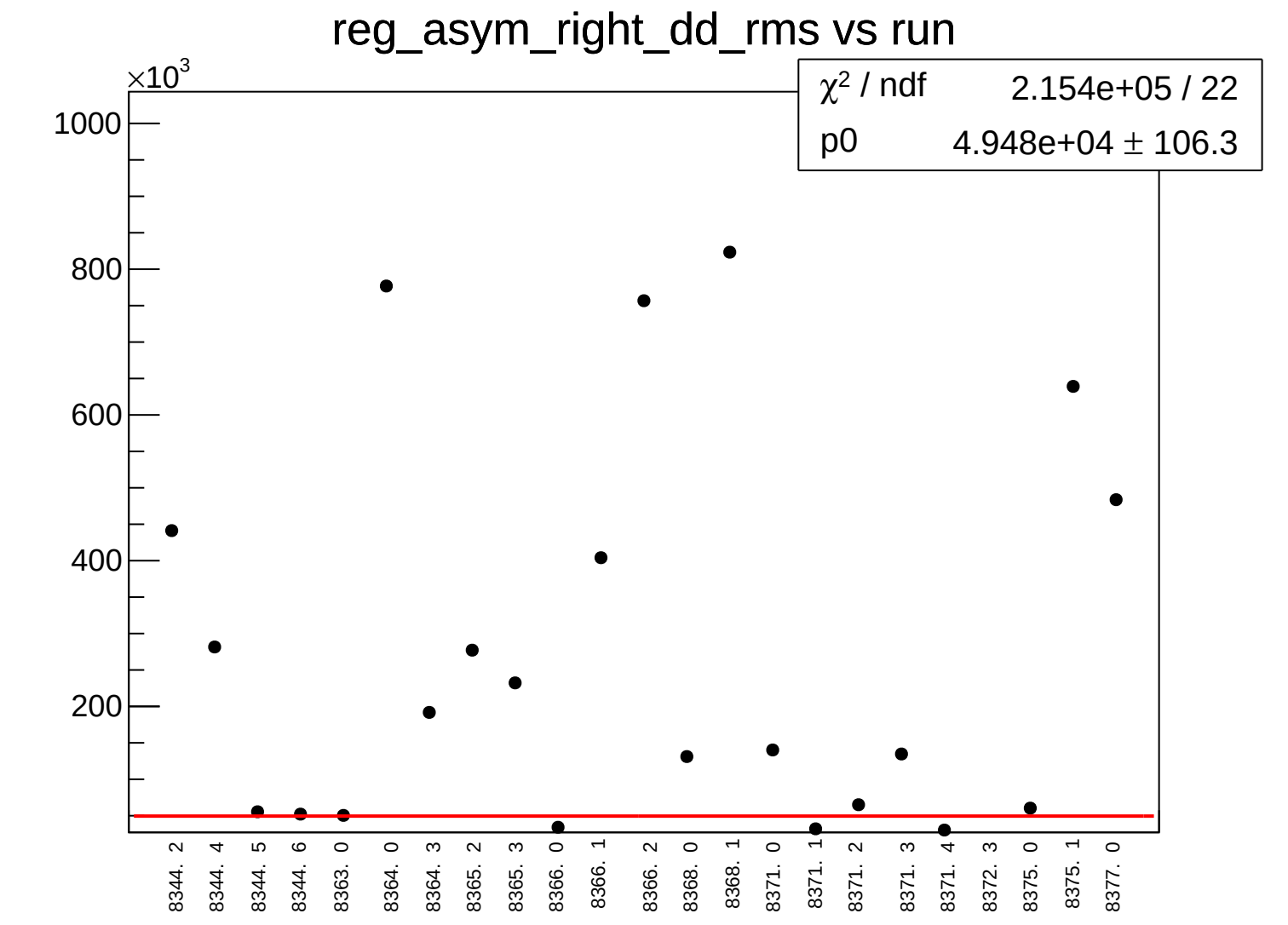

asym_right_avg_mean vs run
×10^3
χ² / ndf 7.768 / 7
p0 −2.282e+05 ± 1.547e+05
1000
500
0
−500
−1000
8344. 5
8344. 6
8363. 0
8366. 0
8371. 1
8371. 2
8371. 4
8375. 0
pull
Entries 8
Mean 8.522
Std Dev 0.2837
1
0.5
0
−0.5
−1
−1.5

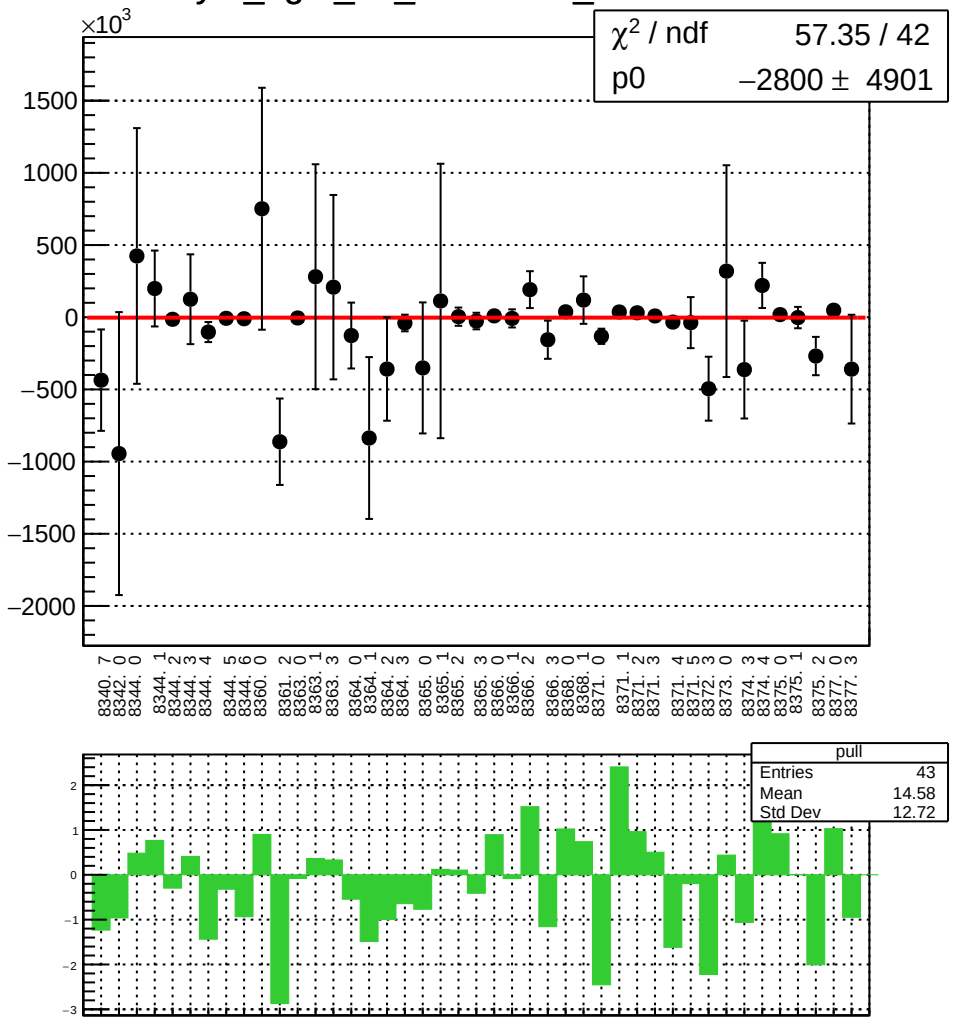

pull1D
Entries 8
Mean 0.07169
Std Dev 0.9828
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

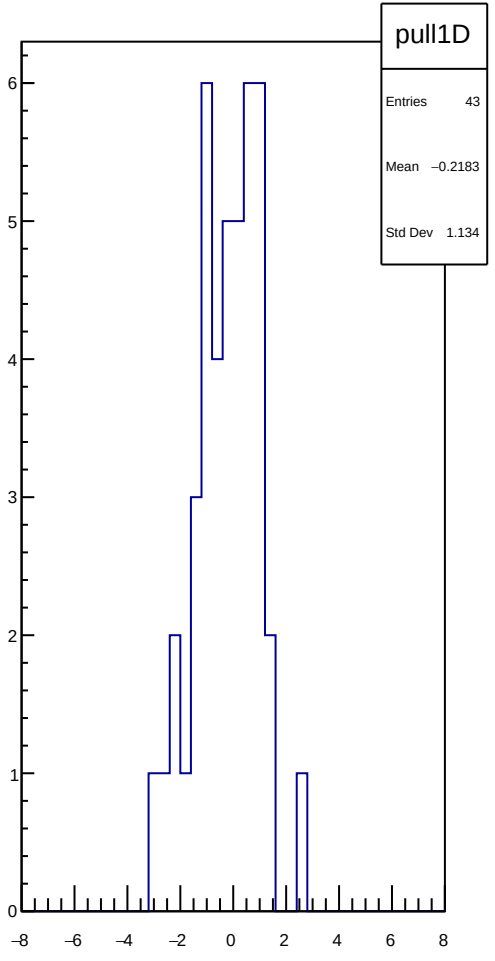

asym_right_avg_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 2.153e+05 / 22
p0 4.954e+04 ± 106.4
8344. 2
8344. 4
8344. 5
8344. 6
8363. 0
8364. 0
8364. 3
8365. 2
8365. 3
8366. 0
8366. 1
8366. 2
8368. 0
8368. 1
8371. 0
8371. 1
8371. 2
8371. 3
8371. 4
8372. 3
8375. 0
8375. 1
8377. 0

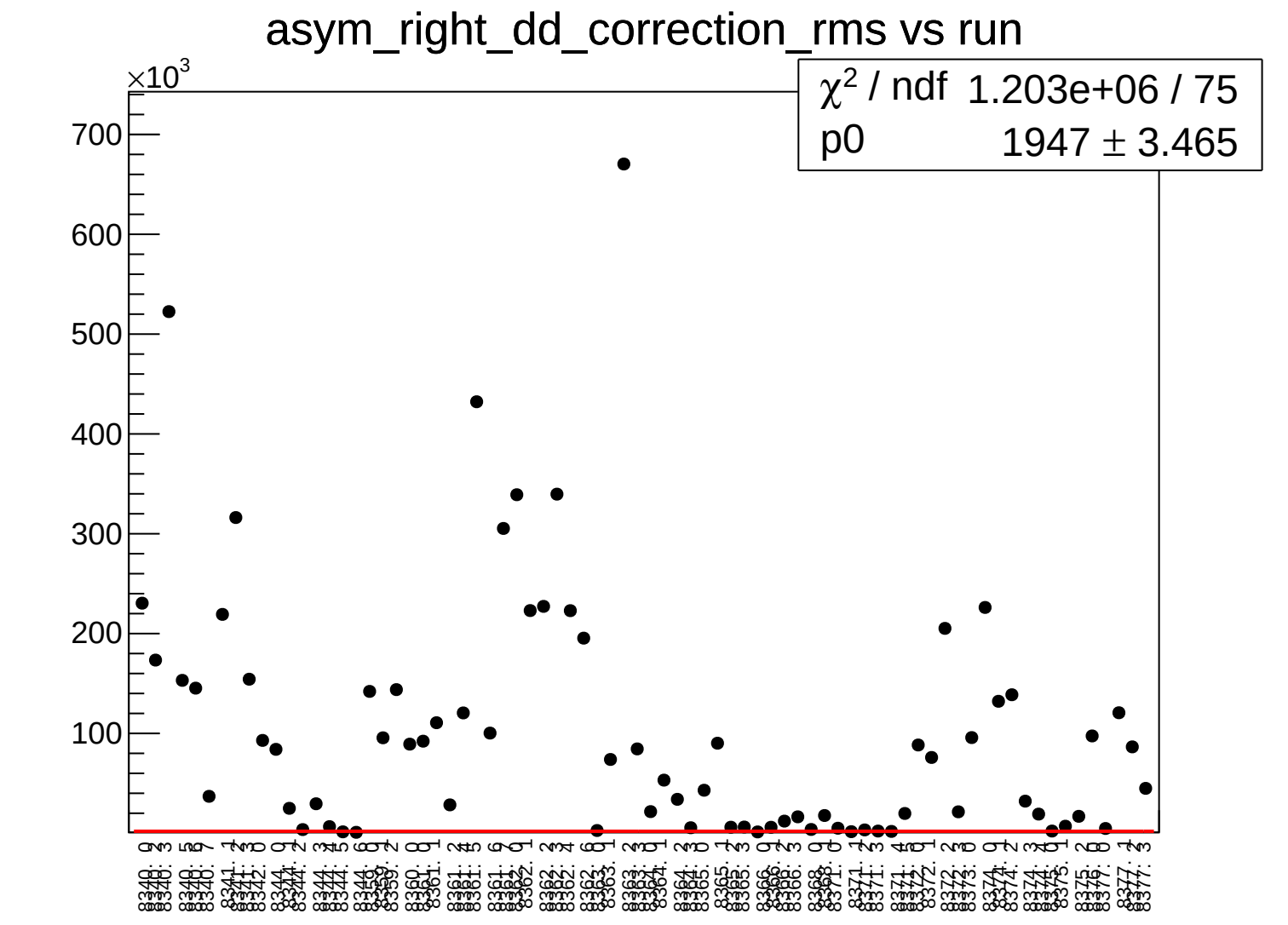

reg_asym_right_dd_mean vs run
×10^3
χ² / ndf 7.472 / 7
p0 2.171e+05 ± 1.545e+05
1000
500
0
−500
−1000
8344. 5
8344. 6
8363. 0
8366. 0
8371. 1
8371. 2
8371. 4
8375. 0
pull
Entries 8
Mean 8.346
Std Dev 0.8821
1.5
1
0.5
0
−0.5
−1

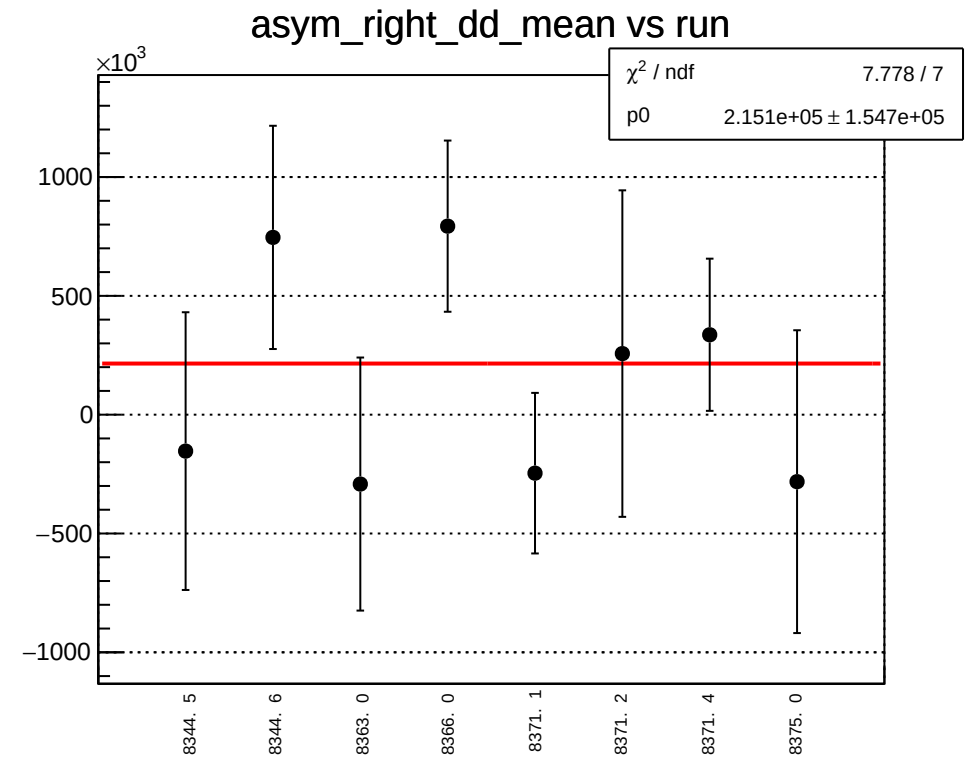

pull1D
Entries 8
Mean −0.06645
Std Dev 0.9642
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

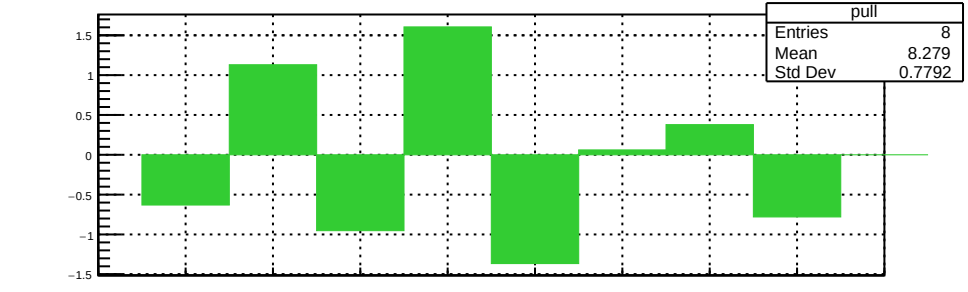

reg_asym_right_dd_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 2.154e+05 / 22
p0 4.948e+04 ± 106.3
8344. 2
8344. 4
8344. 5
8344. 6
8363. 0
8364. 0
8364. 3
8365. 2
8365. 3
8366. 0
8366. 1
8366. 2
8368. 0
8368. 1
8371. 0
8371. 1
8371. 2
8371. 3
8371. 4
8372. 3
8375. 0
8375. 1
8377. 0

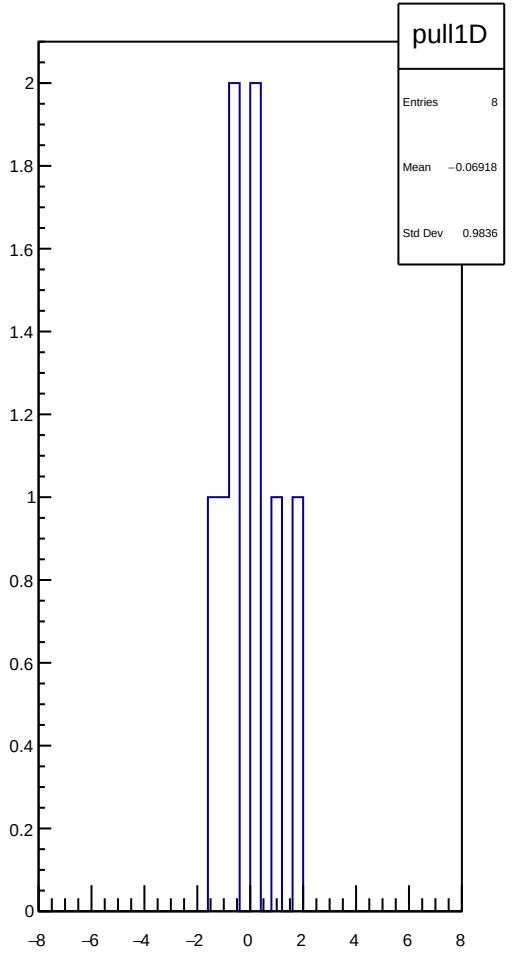

asym_right_dd_correction_mean vs run
χ² / ndf 57.35 / 42
p0 −2800 ± 4901
×10³
pull
Entries 43
Mean 14.58
Std Dev 12.72

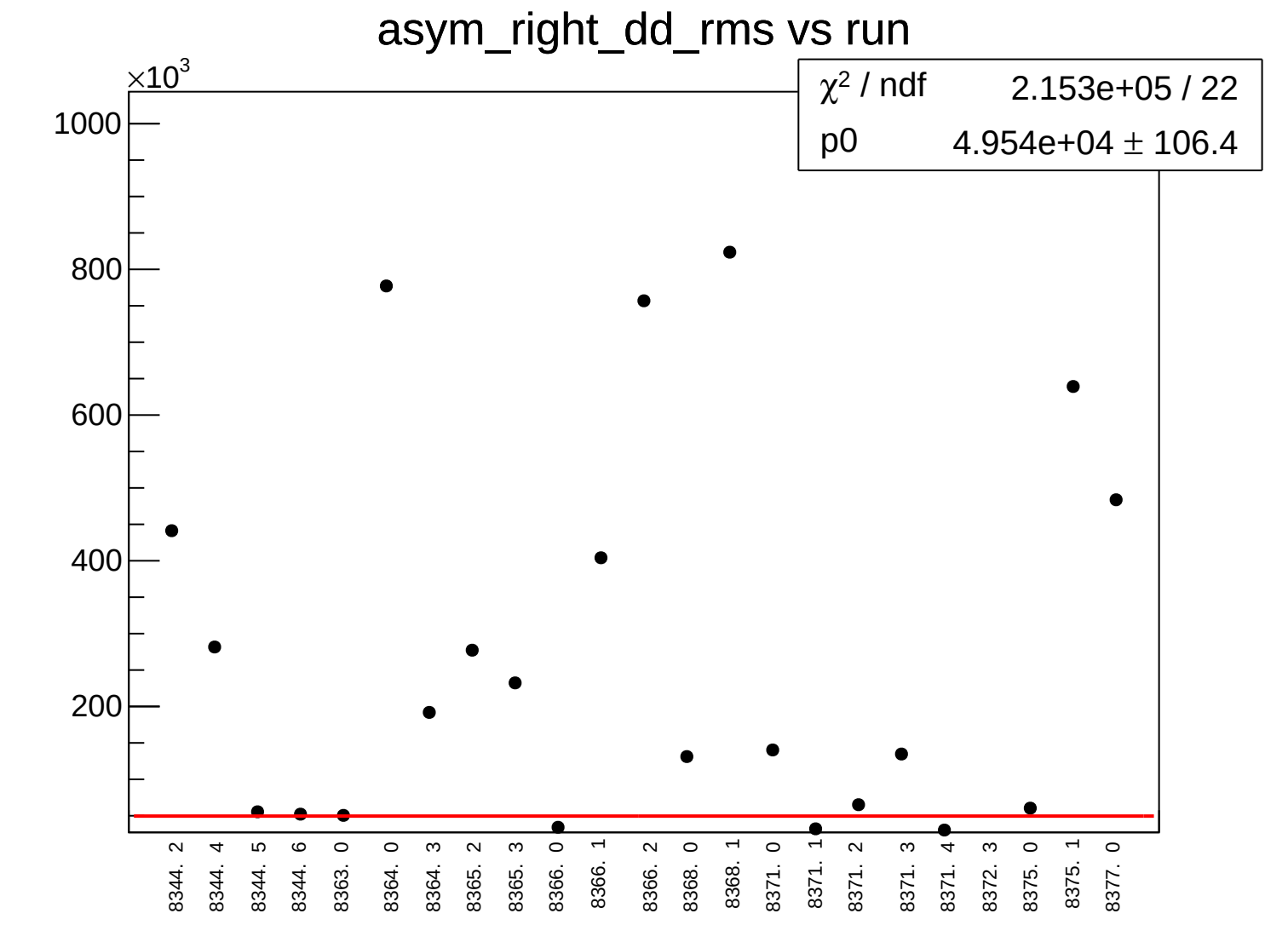

pull1D
Entries 43
Mean −0.2183
Std Dev 1.134

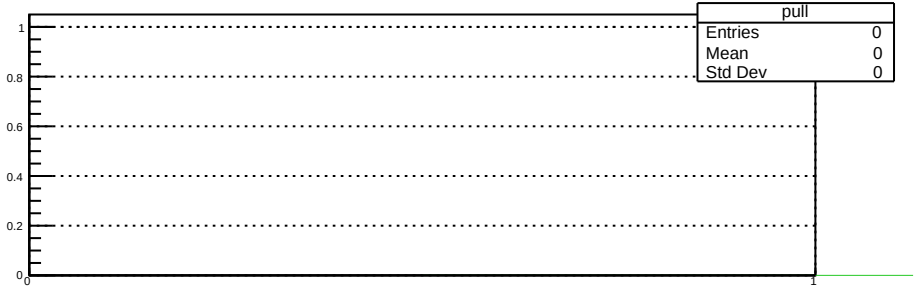

asym_right_dd_correction_rms vs run
×10^3
700
600
500
400
300
200
100
χ² / ndf 1.203e+06 / 75
p0 1947 ± 3.465

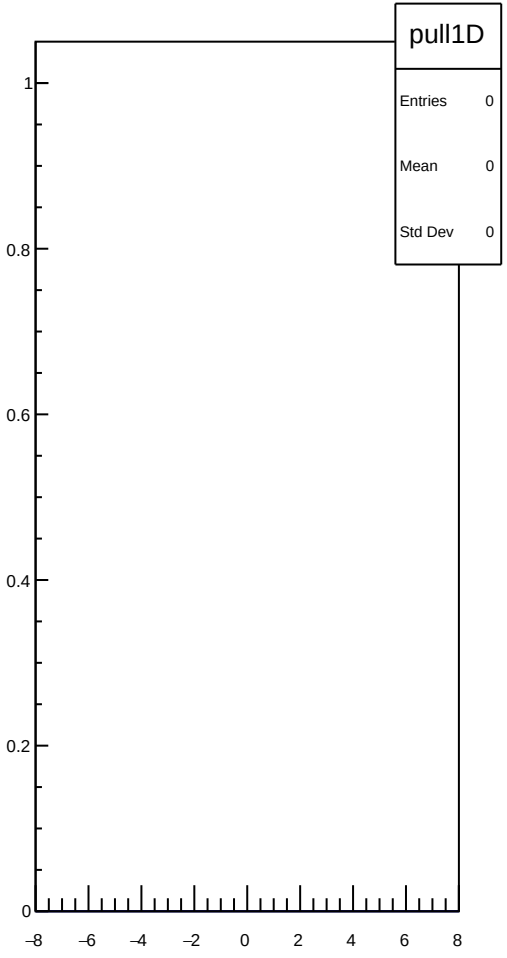

asym_right_dd_mean vs run
×10^3
χ² / ndf 7.778 / 7
p0 2.151e+05 ± 1.547e+05
1000
500
0
−500
−1000
8344. 5
8344. 6
8363. 0
8366. 0
8371. 1
8371. 2
8371. 4
8375. 0

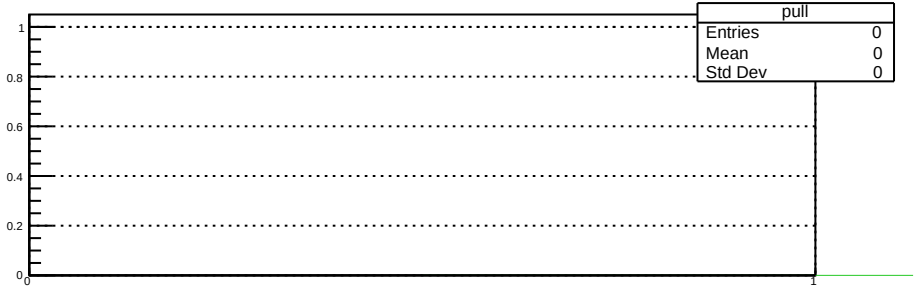

pull
Entries 8
Mean 8.279
Std Dev 0.7792
1.5
1
0.5
0
−0.5
−1
−1.5

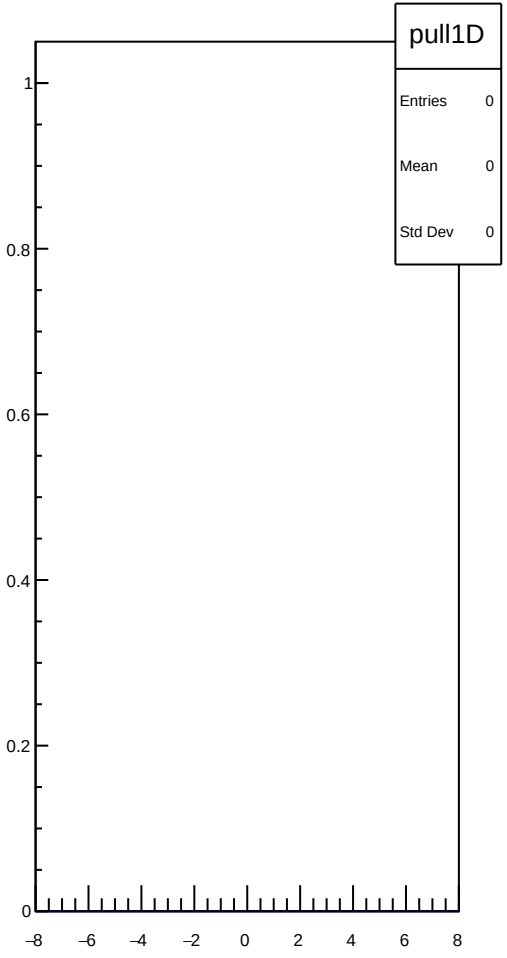

pull1D
Entries 8
Mean −0.06918
Std Dev 0.9836
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

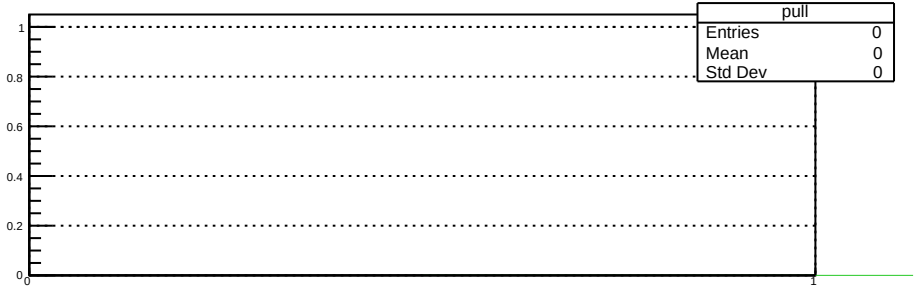

asym_right_dd_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 2.153e+05 / 22
p0 4.954e+04 ± 106.4
8344. 2
8344. 4
8344. 5
8344. 6
8363. 0
8364. 0
8364. 3
8365. 2
8365. 3
8366. 0
8366. 1
8366. 2
8368. 0
8368. 1
8371. 0
8371. 1
8371. 2
8371. 3
8371. 4
8372. 3
8375. 0
8375. 1
8377. 0

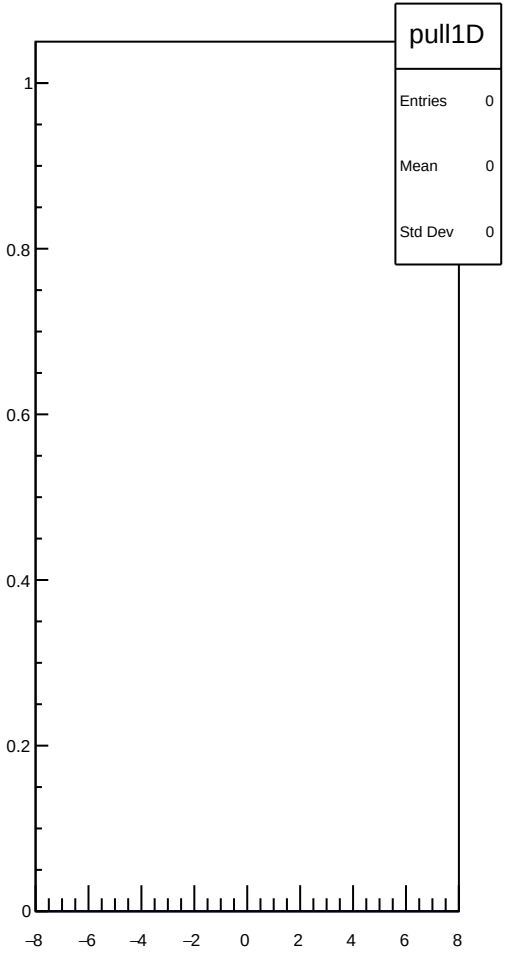

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

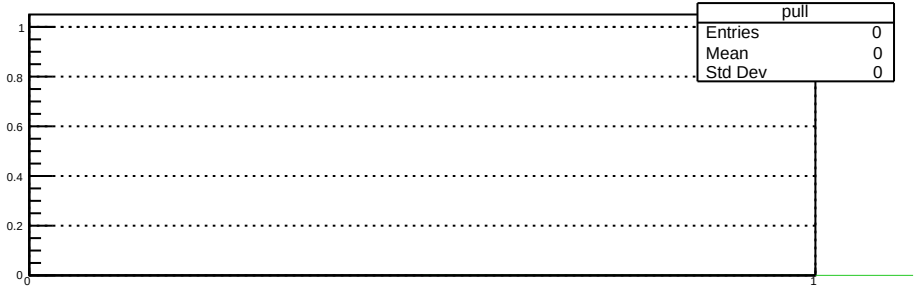

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

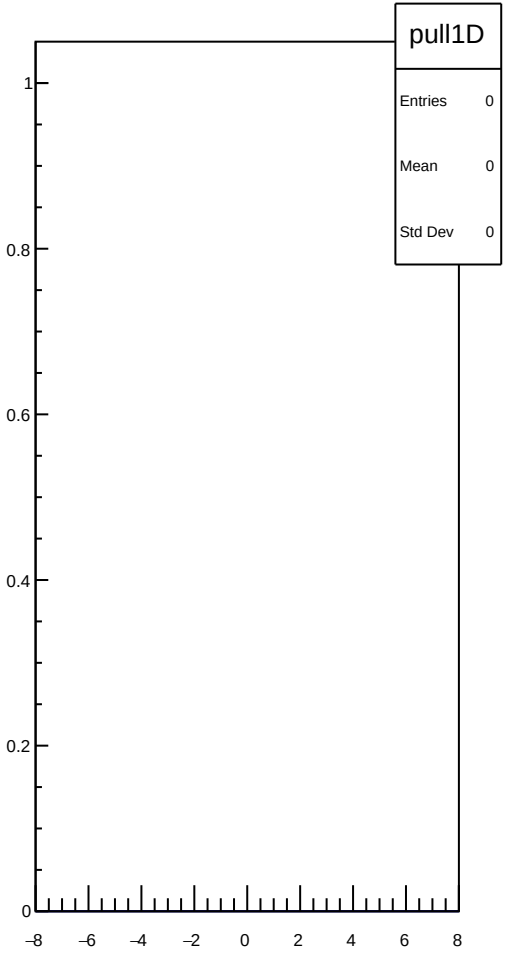

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

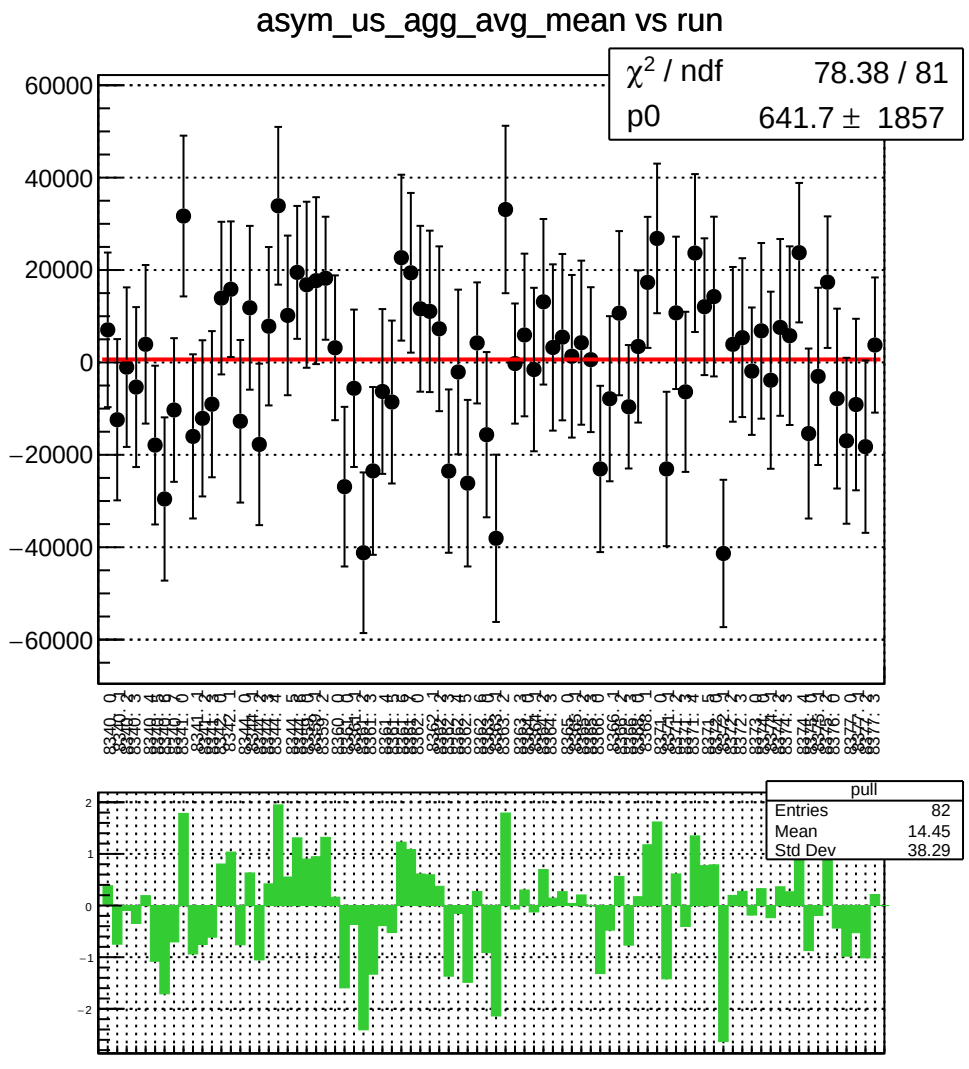

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

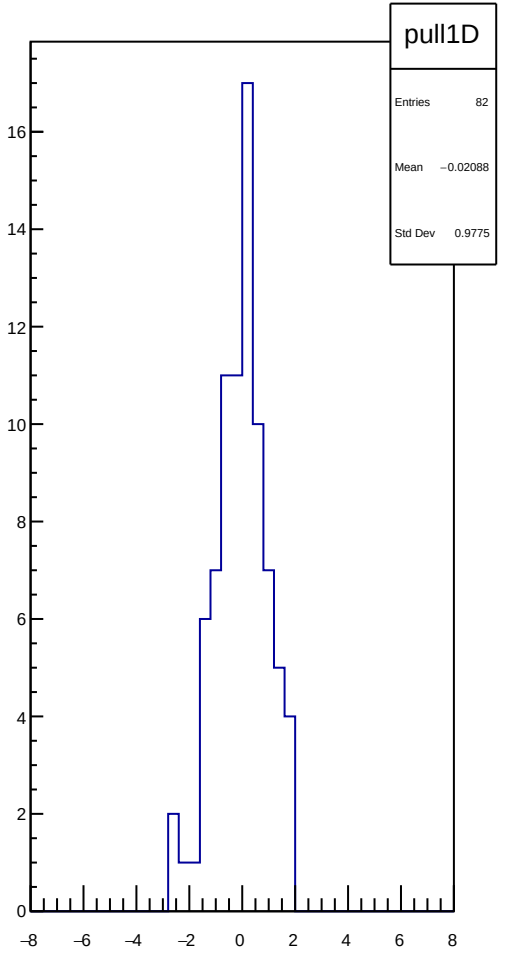

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

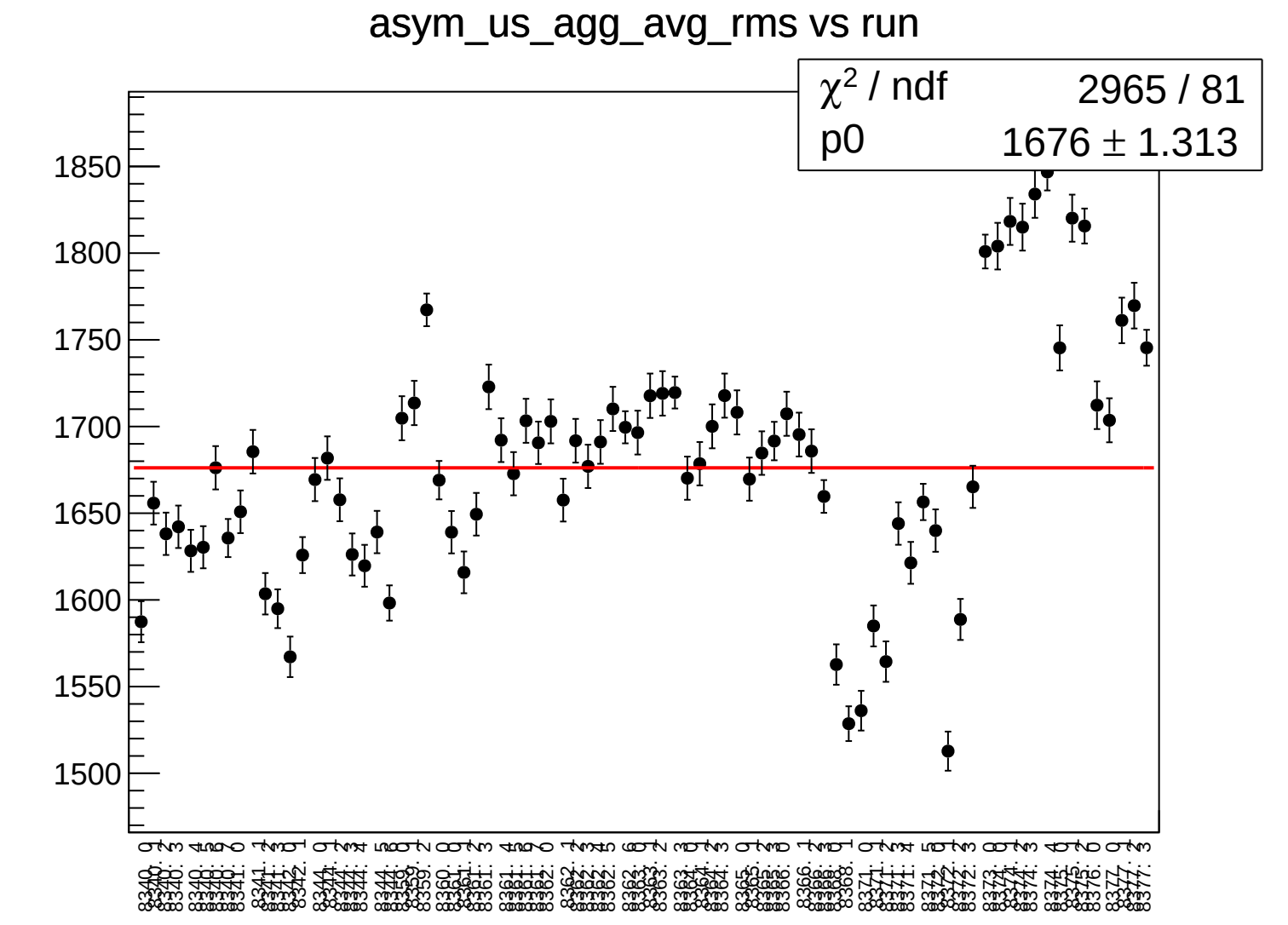

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

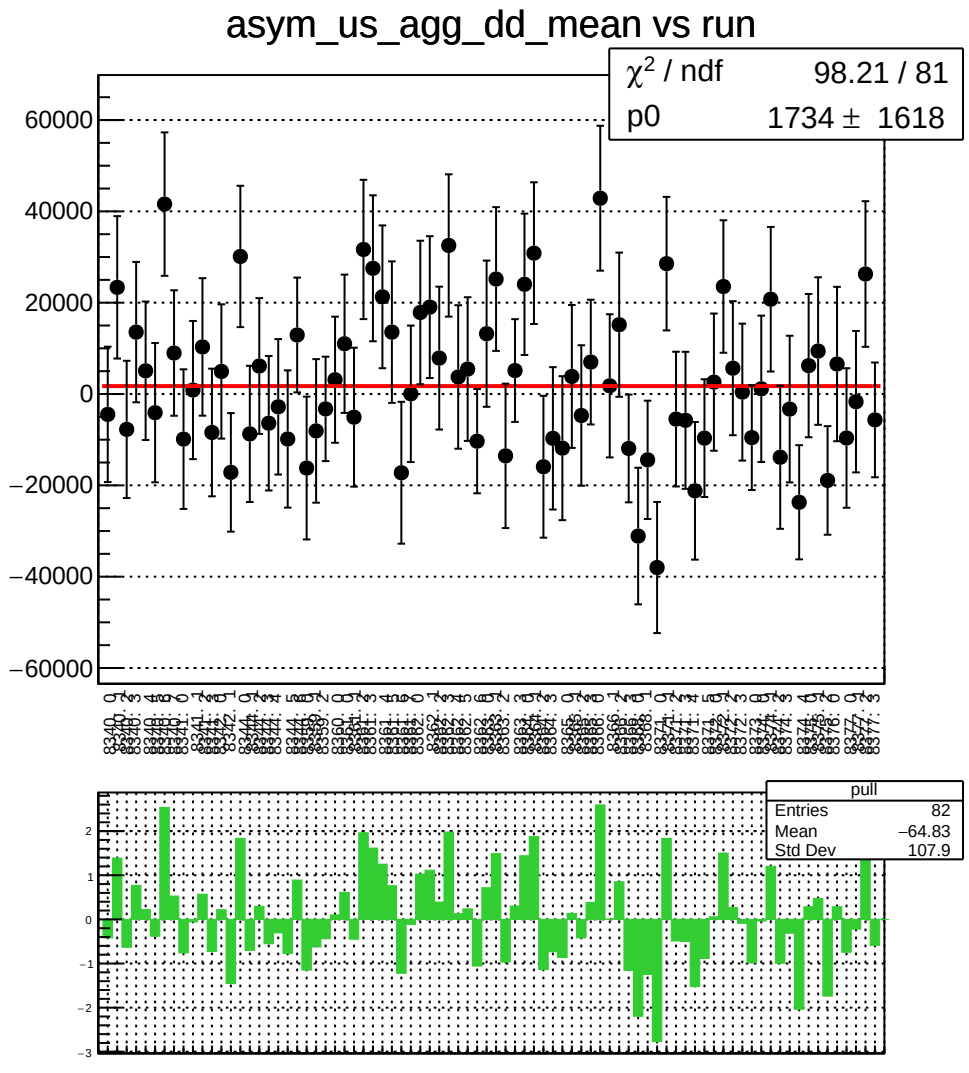

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

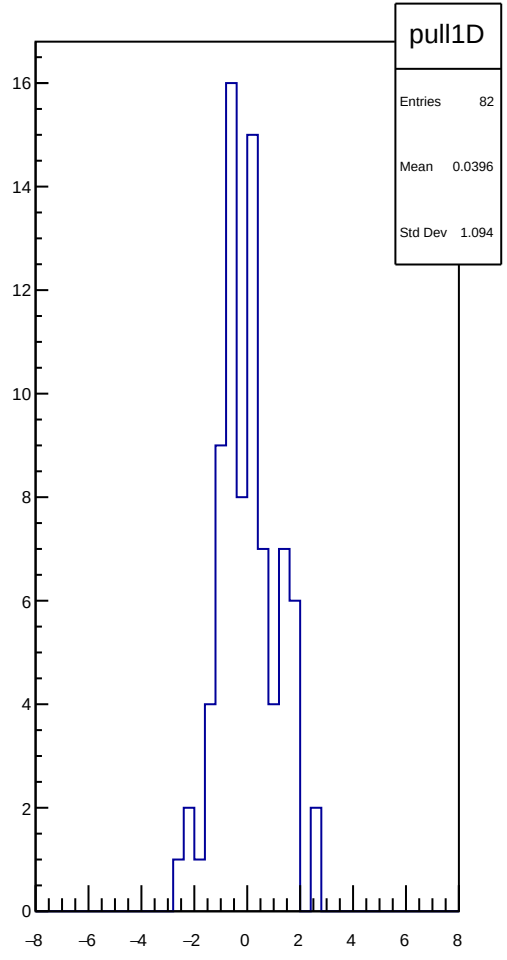

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

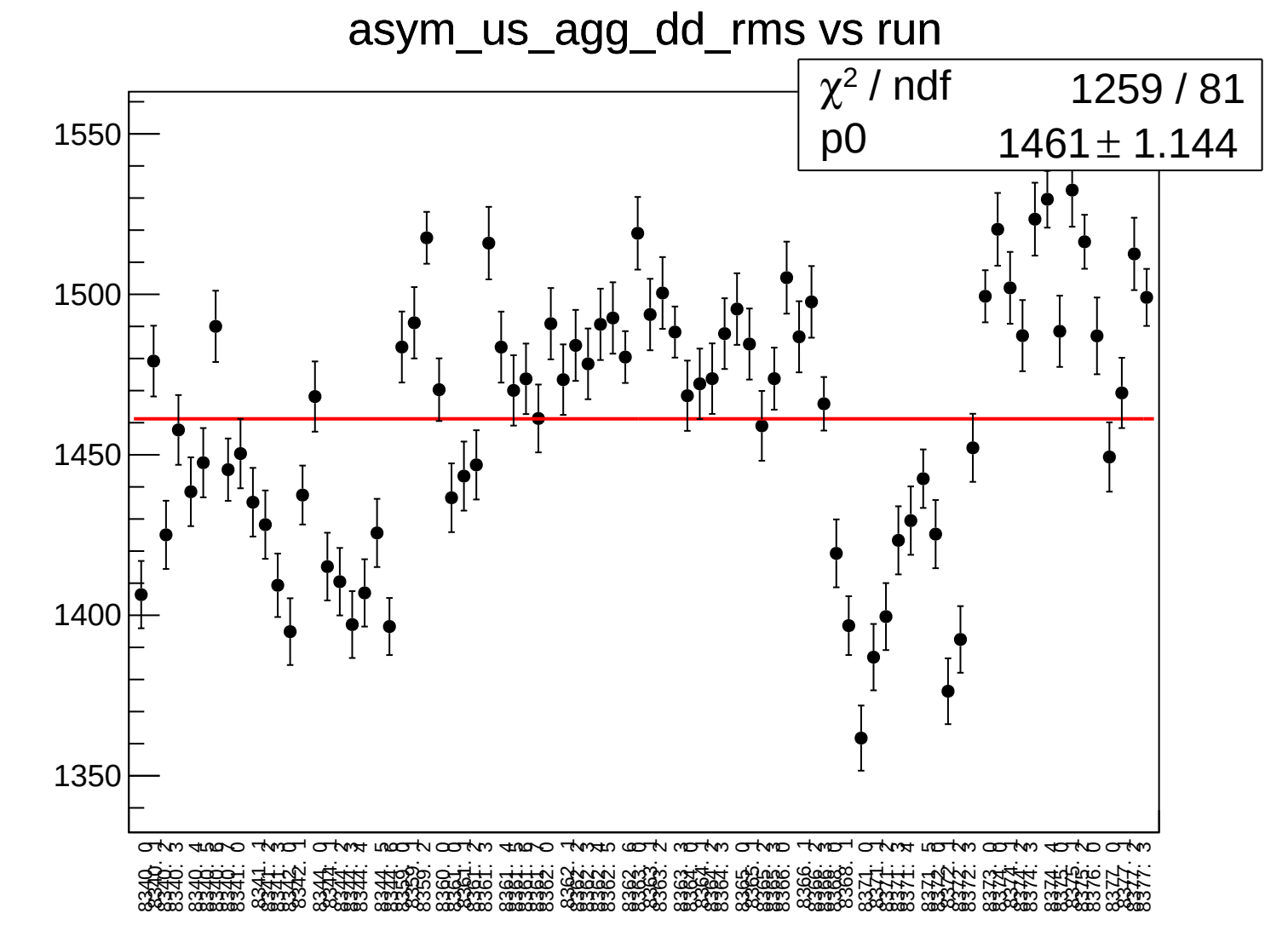

asym_us_agg_avg_mean vs run
χ² / ndf 78.38 / 81
p0 641.7 ± 1857
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 14.45
Std Dev 38.29
2
1
0
−1
−2

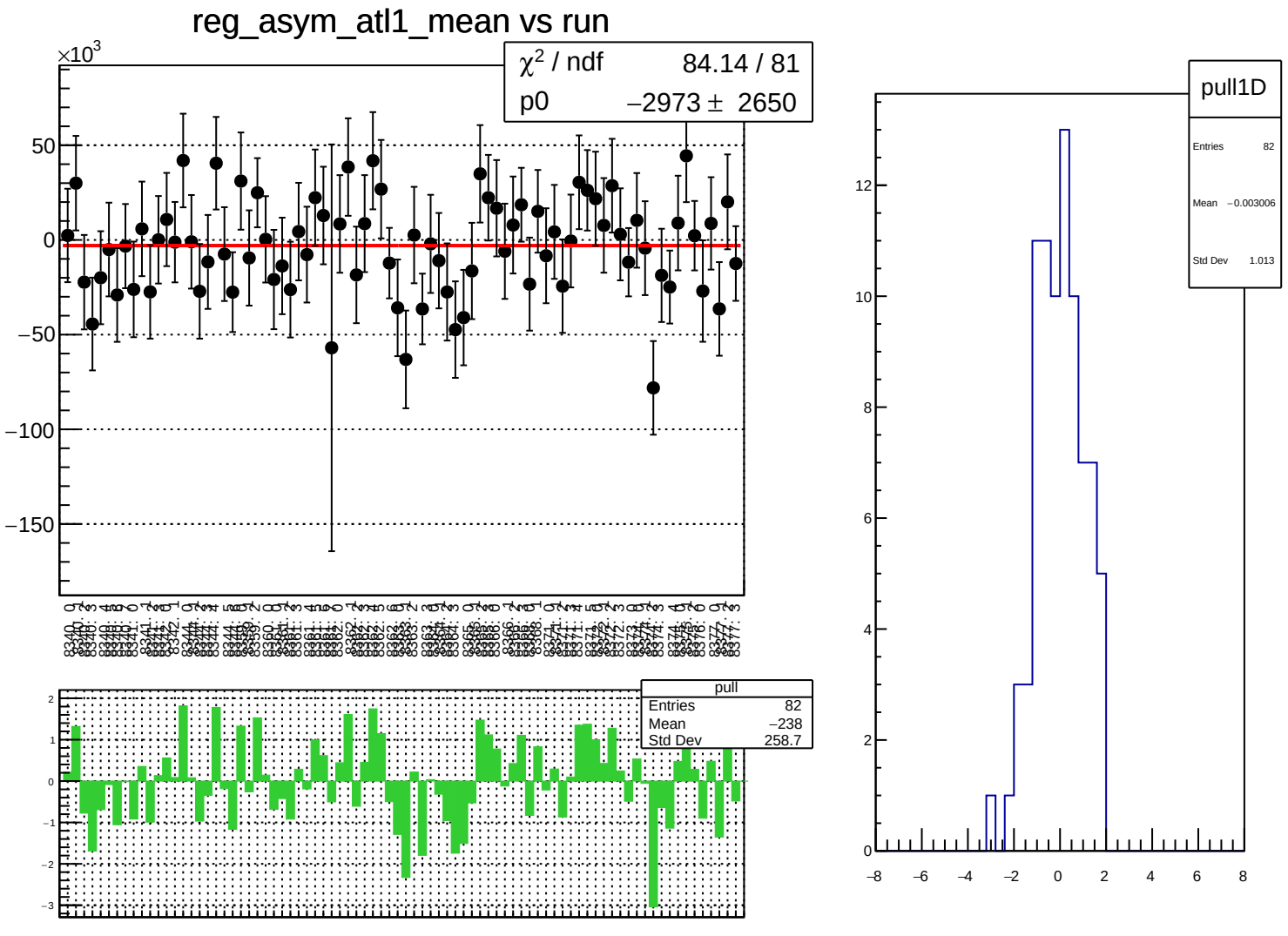

pull1D
Entries 82
Mean −0.02088
Std Dev 0.9775
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

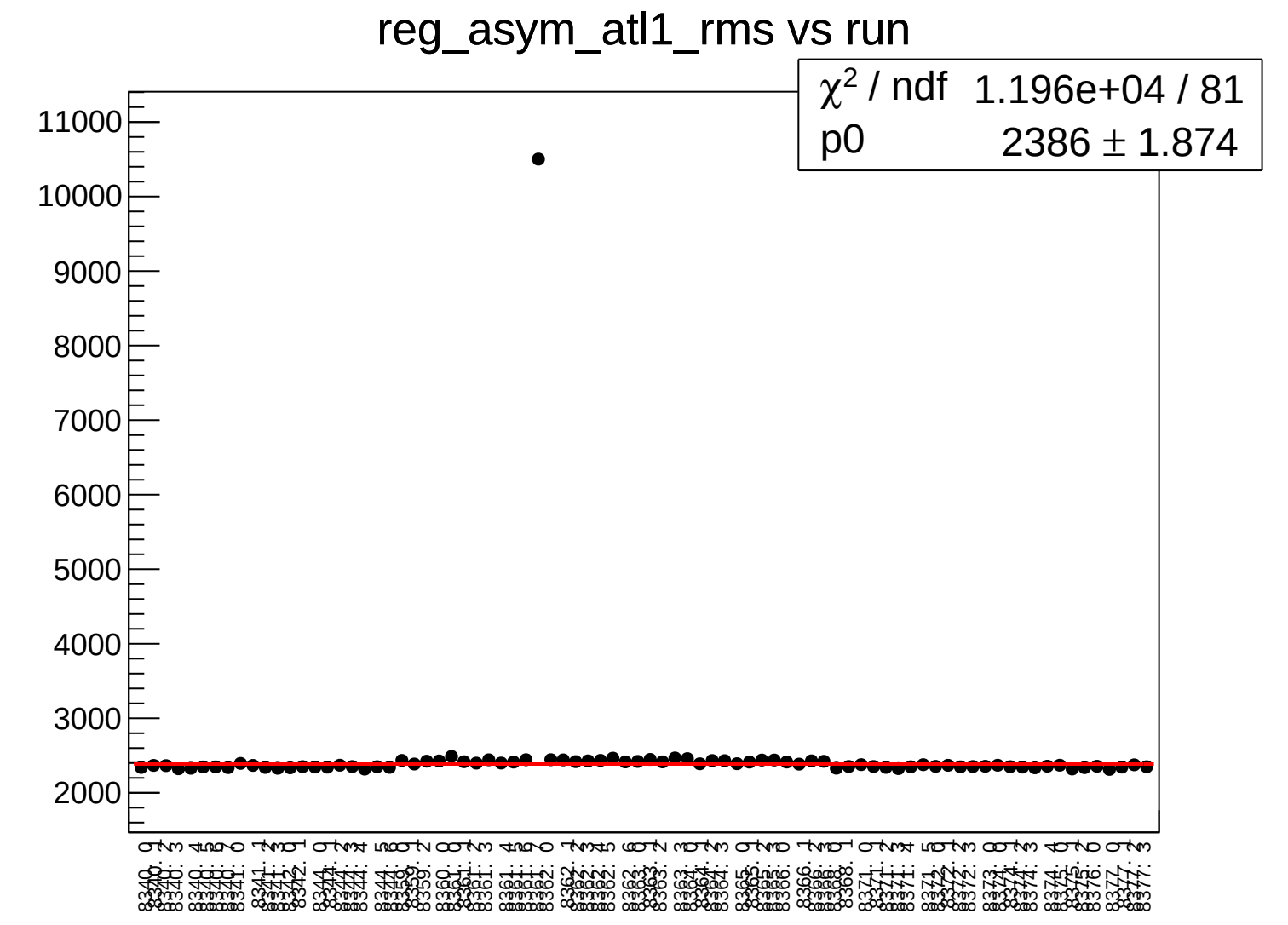

asym_us_agg_avg_rms vs run
χ² / ndf 2965 / 81
p0 1676 ± 1.313
1850
1800
1750
1700
1650
1600
1550
1500

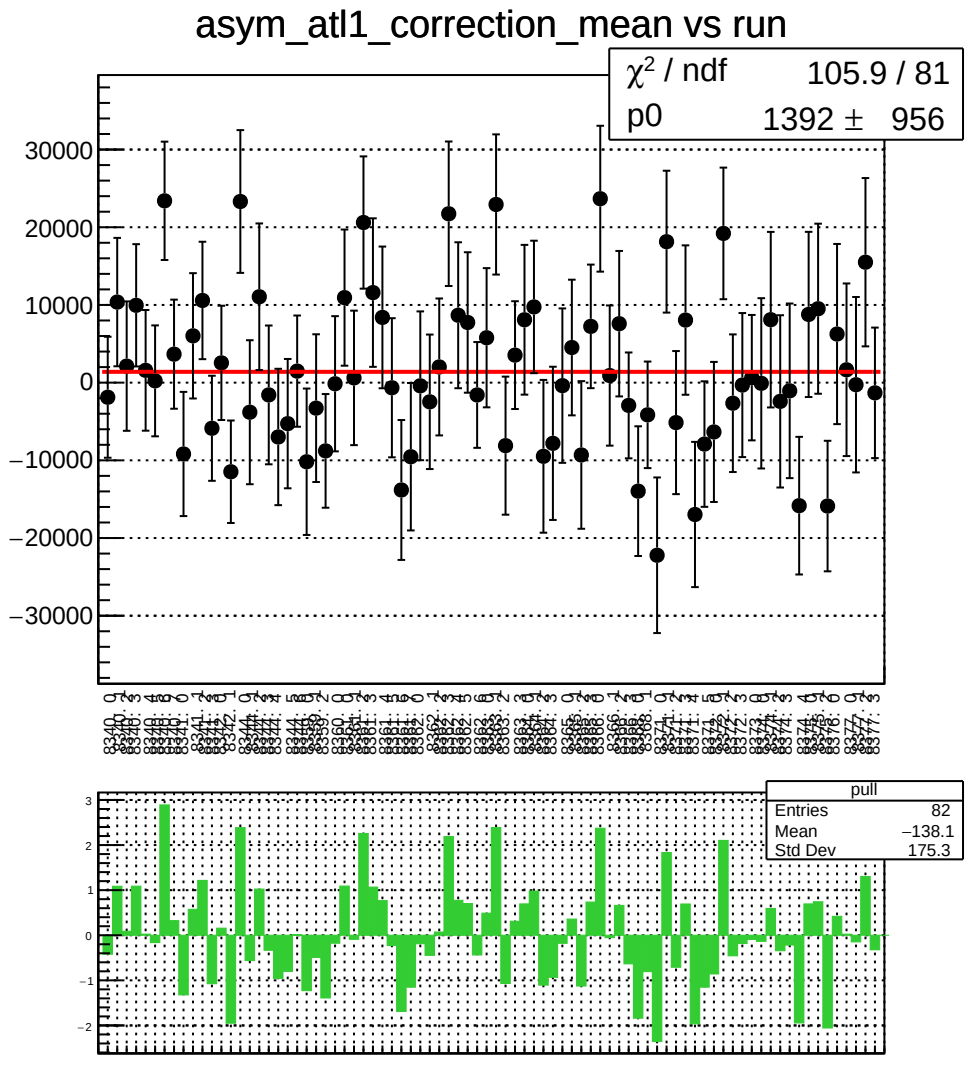

asym_us_agg_dd_mean vs run
χ^2 / ndf 98.21 / 81
p0 1734 ± 1618
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −64.83
Std Dev 107.9
2
1
0
−1
−2
−3

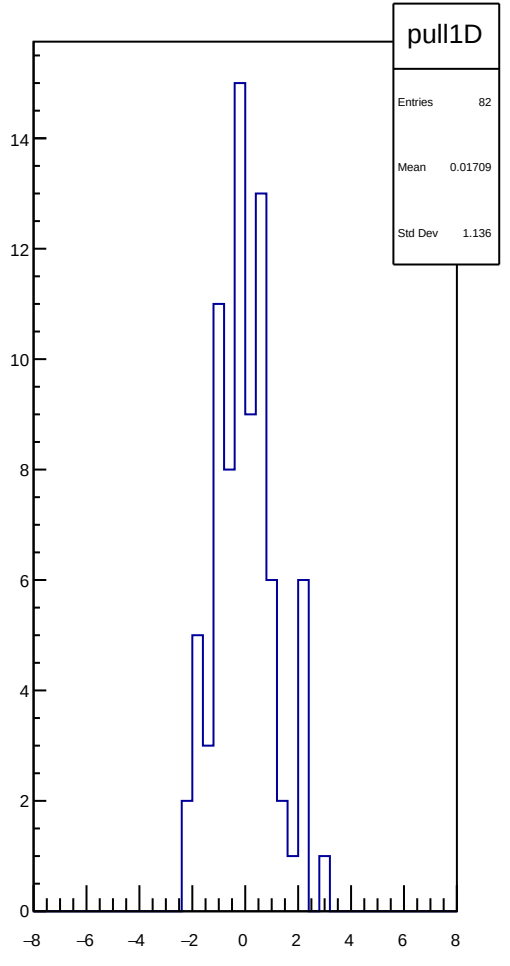

pull1D
Entries 82
Mean 0.0396
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

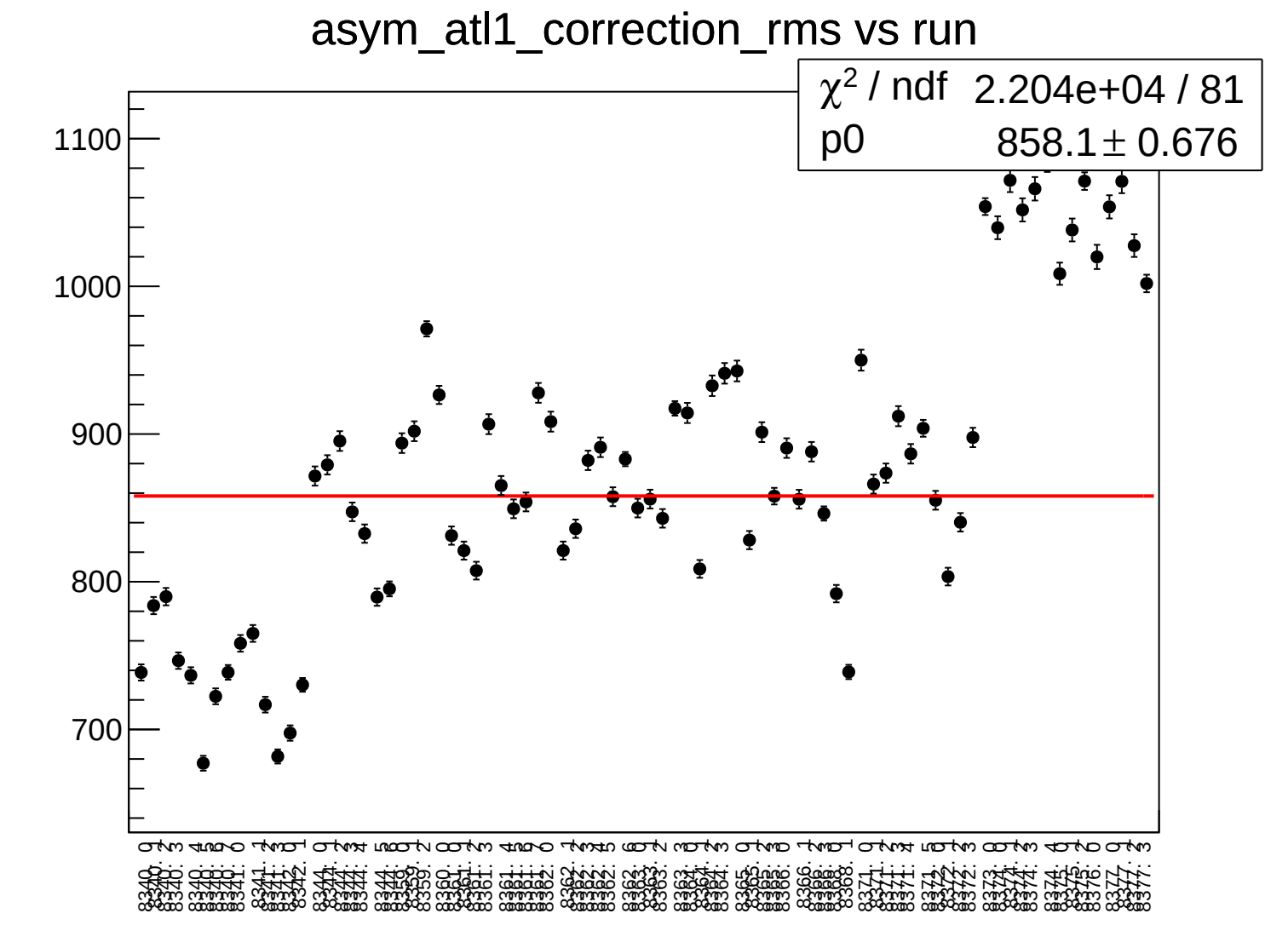

asym_us_agg_dd_rms vs run
χ² / ndf 1259 / 81
p0 1461 ± 1.144
1550
1500
1450
1400
1350

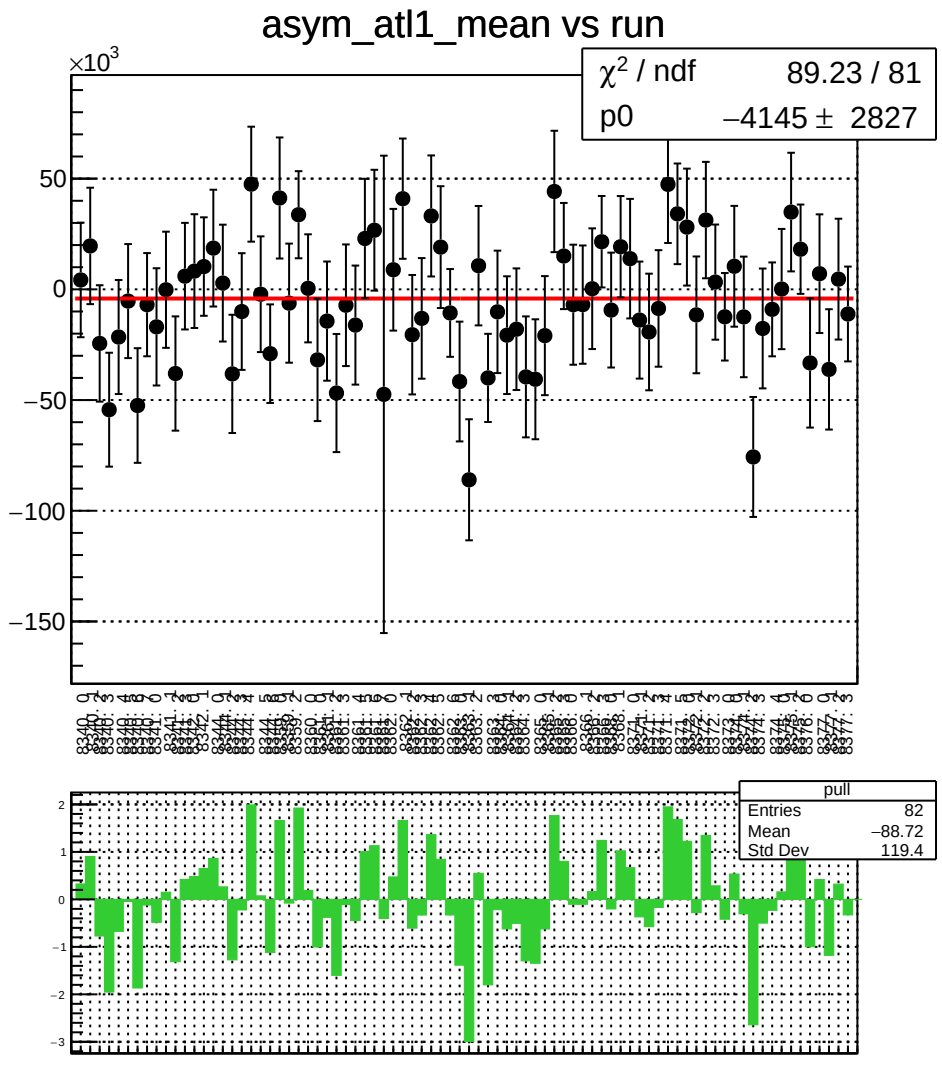

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 84.14 / 81
p0 −2973 ± 2650
50
0
−50
−100
−150
pull
Entries 82
Mean −238
Std Dev 258.7
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.003006
Std Dev 1.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

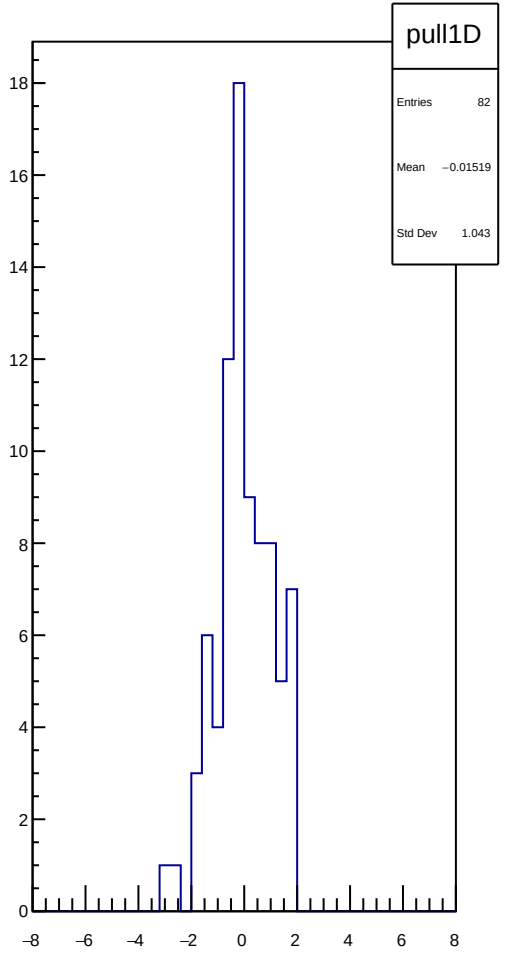

reg_asym_atl1_rms vs run
χ² / ndf 1.196e+04 / 81
p0 2386 ± 1.874
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

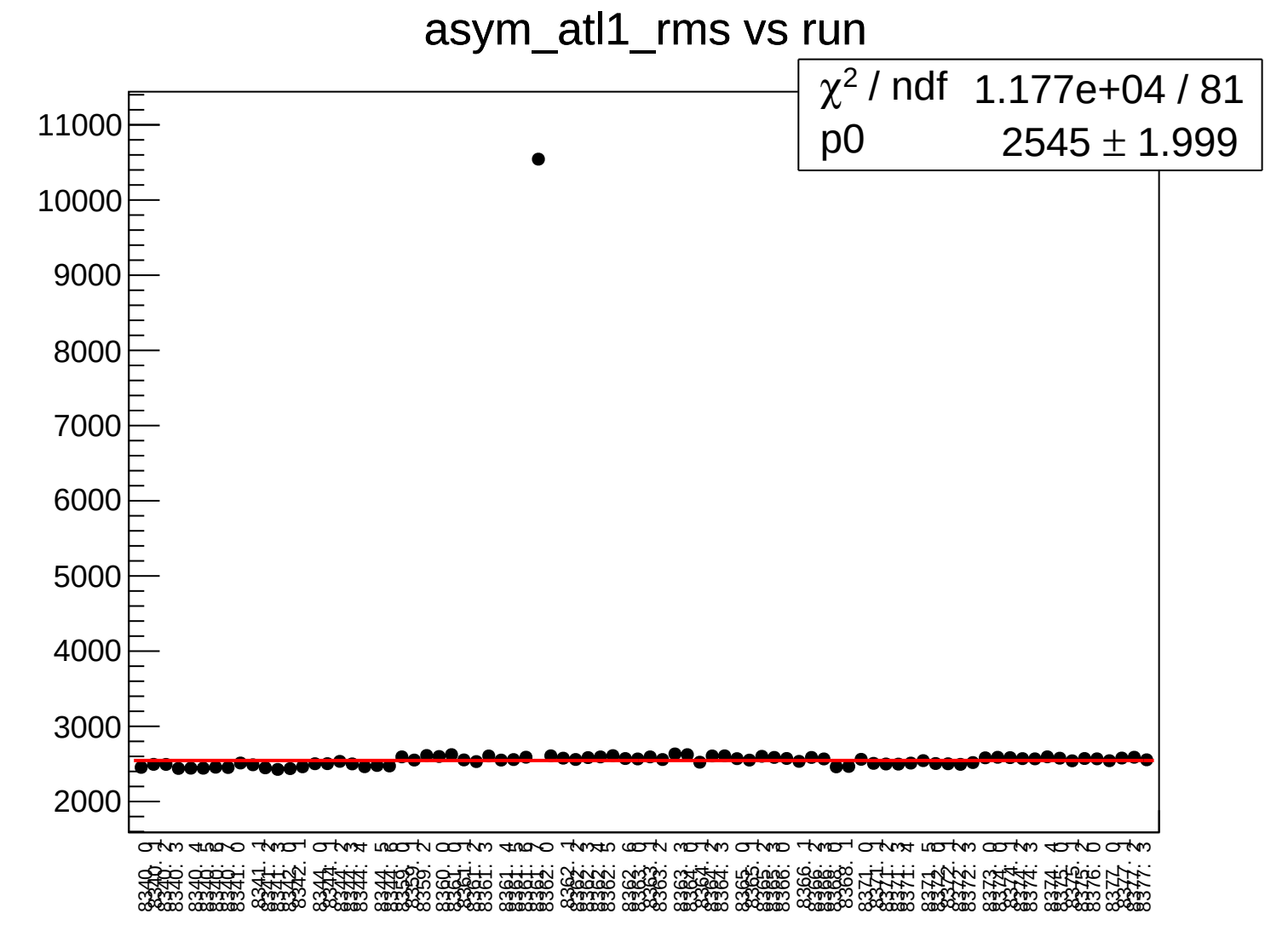

asym_atl1_correction_mean vs run
χ² / ndf 105.9 / 81
p0 1392 ± 956
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −138.1
Std Dev 175.3
3
2
1
0
−1
−2

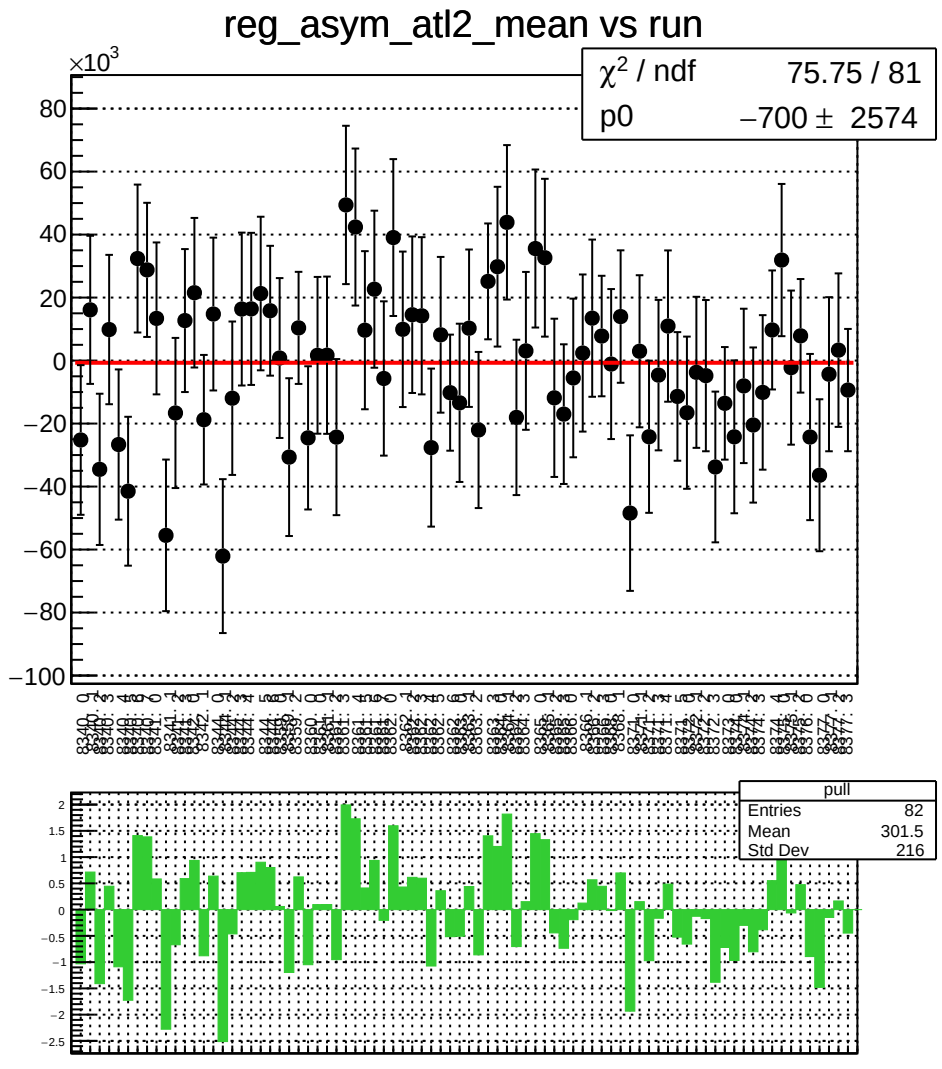

pull1D
Entries 82
Mean 0.01709
Std Dev 1.136
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

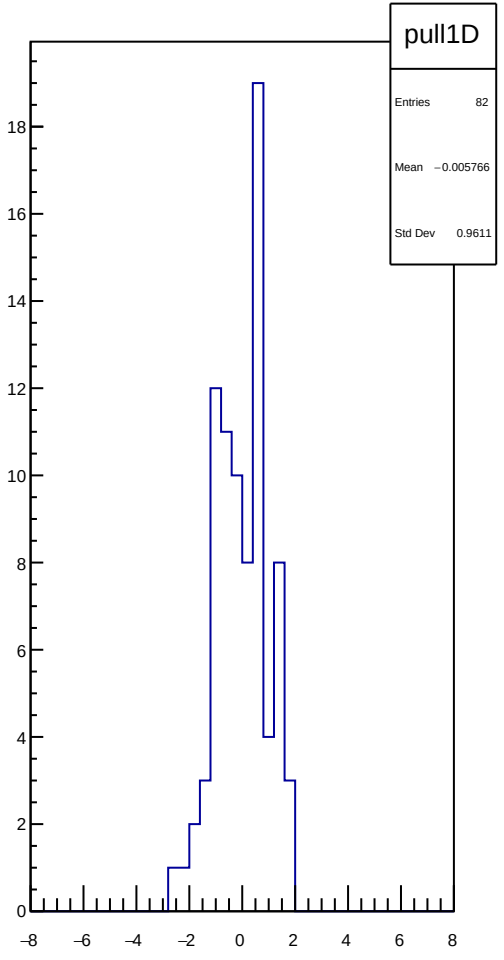

asym_atl1_correction_rms vs run
χ² / ndf 2.204e+04 / 81
p0 858.1 ± 0.676
1100
1000
900
800
700

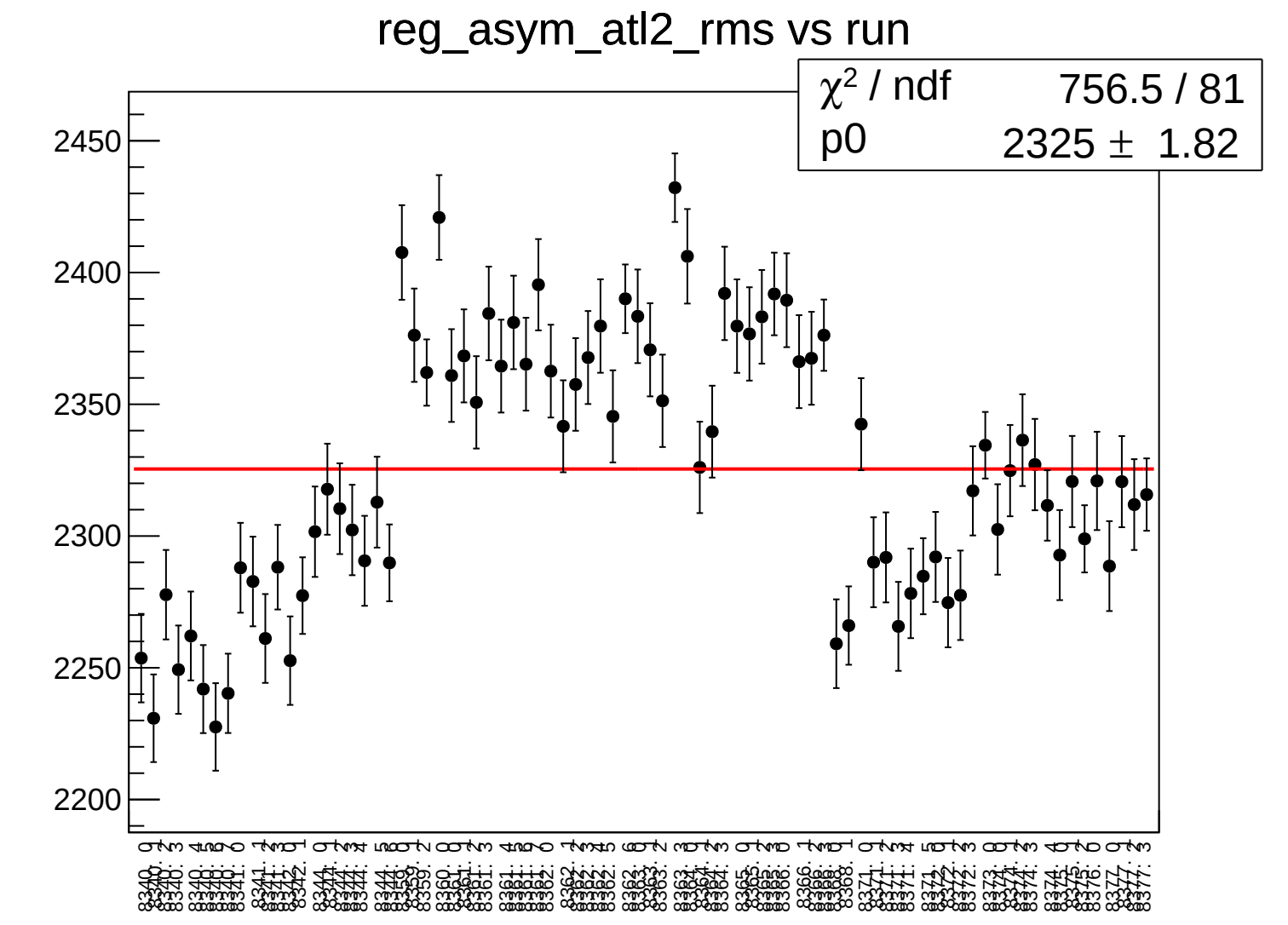

asym_atl1_mean vs run
×10^3
χ^2 / ndf 89.23 / 81
p0 −4145 ± 2827
50
0
−50
−100
−150
pull
Entries 82
Mean −88.72
Std Dev 119.4
2
1
0
−1
−2
−3

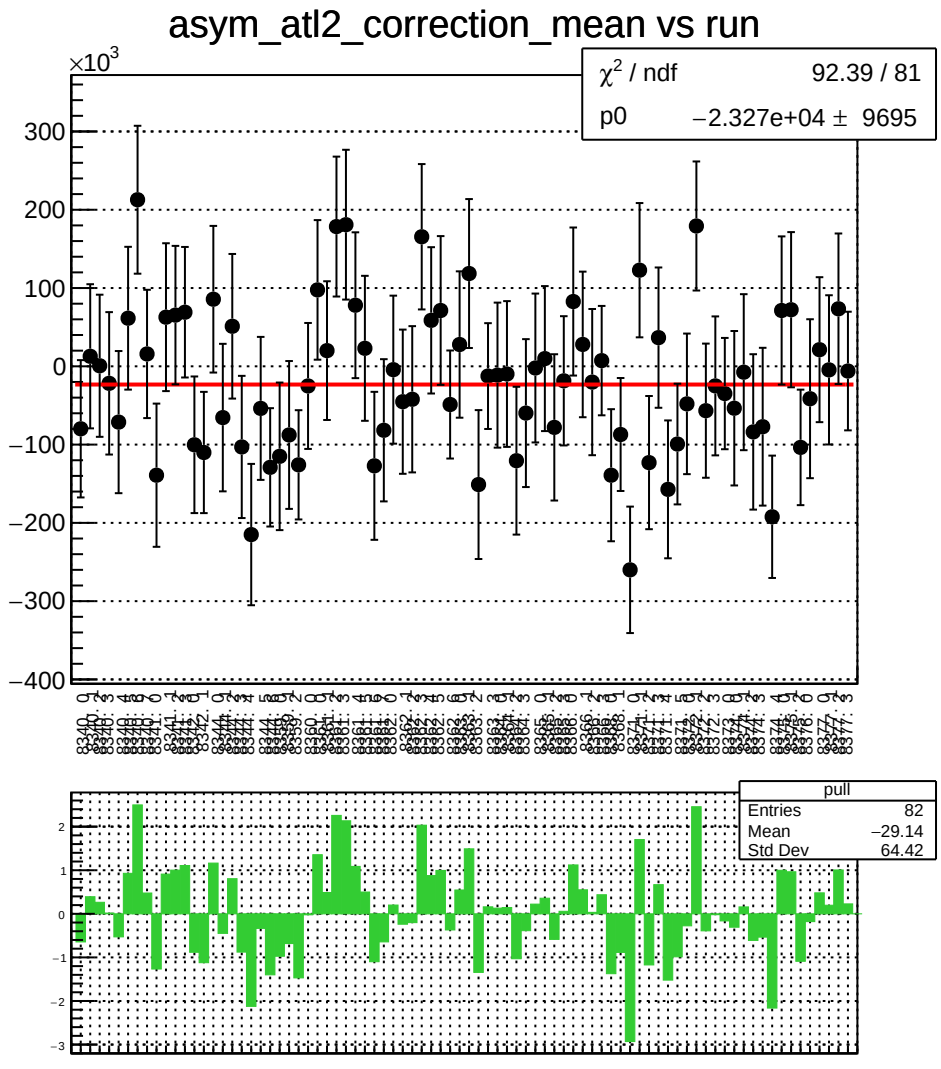

pull1D
Entries 82
Mean −0.01519
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

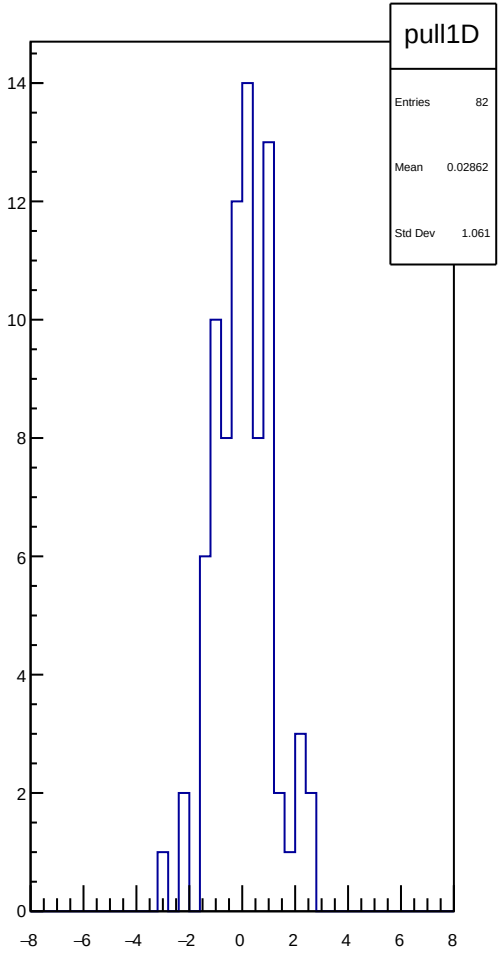

asym_atl1_rms vs run
χ² / ndf 1.177e+04 / 81
p0 2545 ± 1.999
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

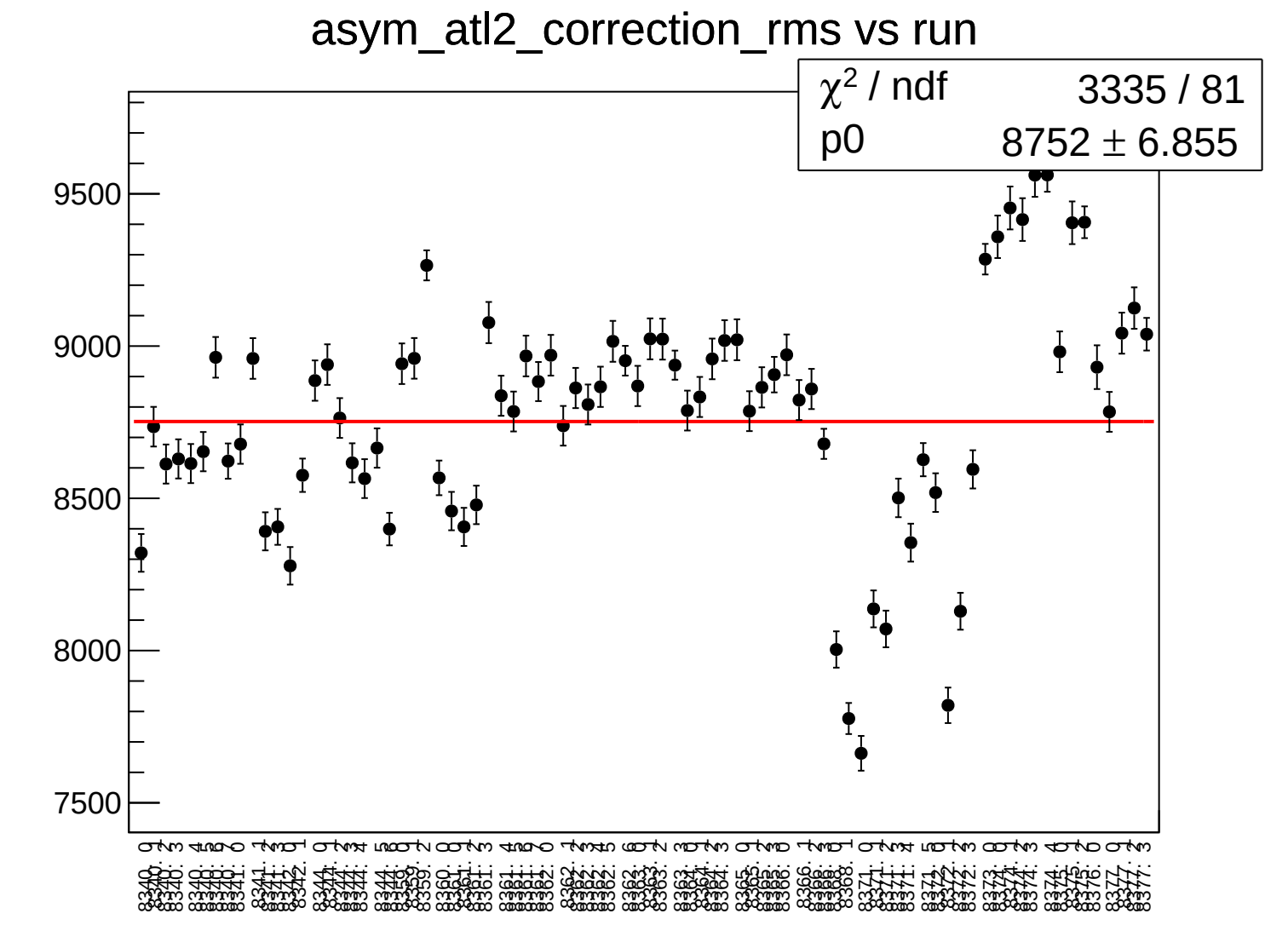

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 75.75 / 81
p0 −700 ± 2574
pull
Entries 82
Mean 301.5
Std Dev 216

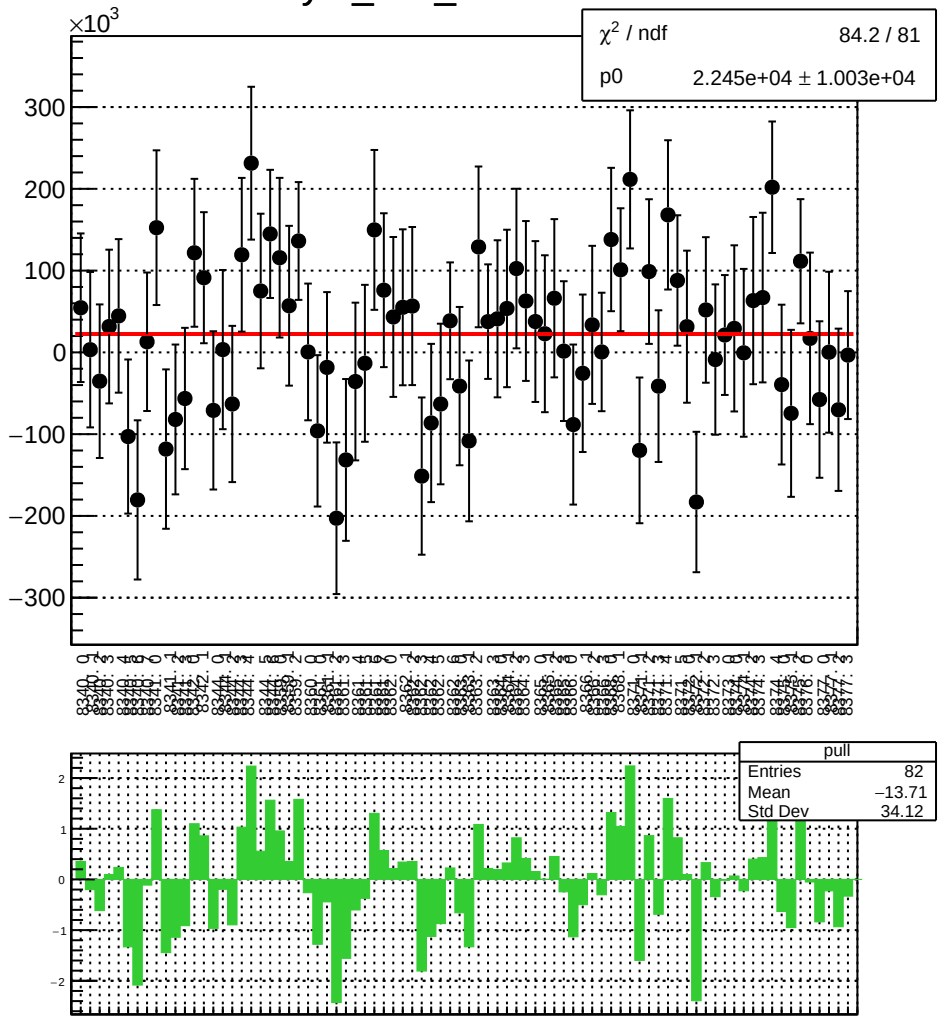

pull1D
Entries 82
Mean −0.005766
Std Dev 0.9611

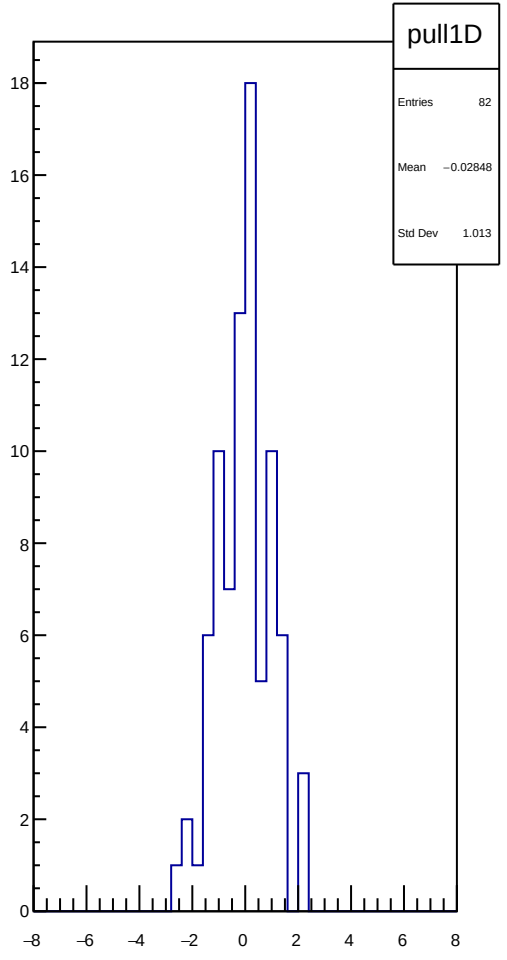

reg_asym_atl2_rms vs run
χ² / ndf 756.5 / 81
p0 2325 ± 1.82
2450
2400
2350
2300
2250
2200

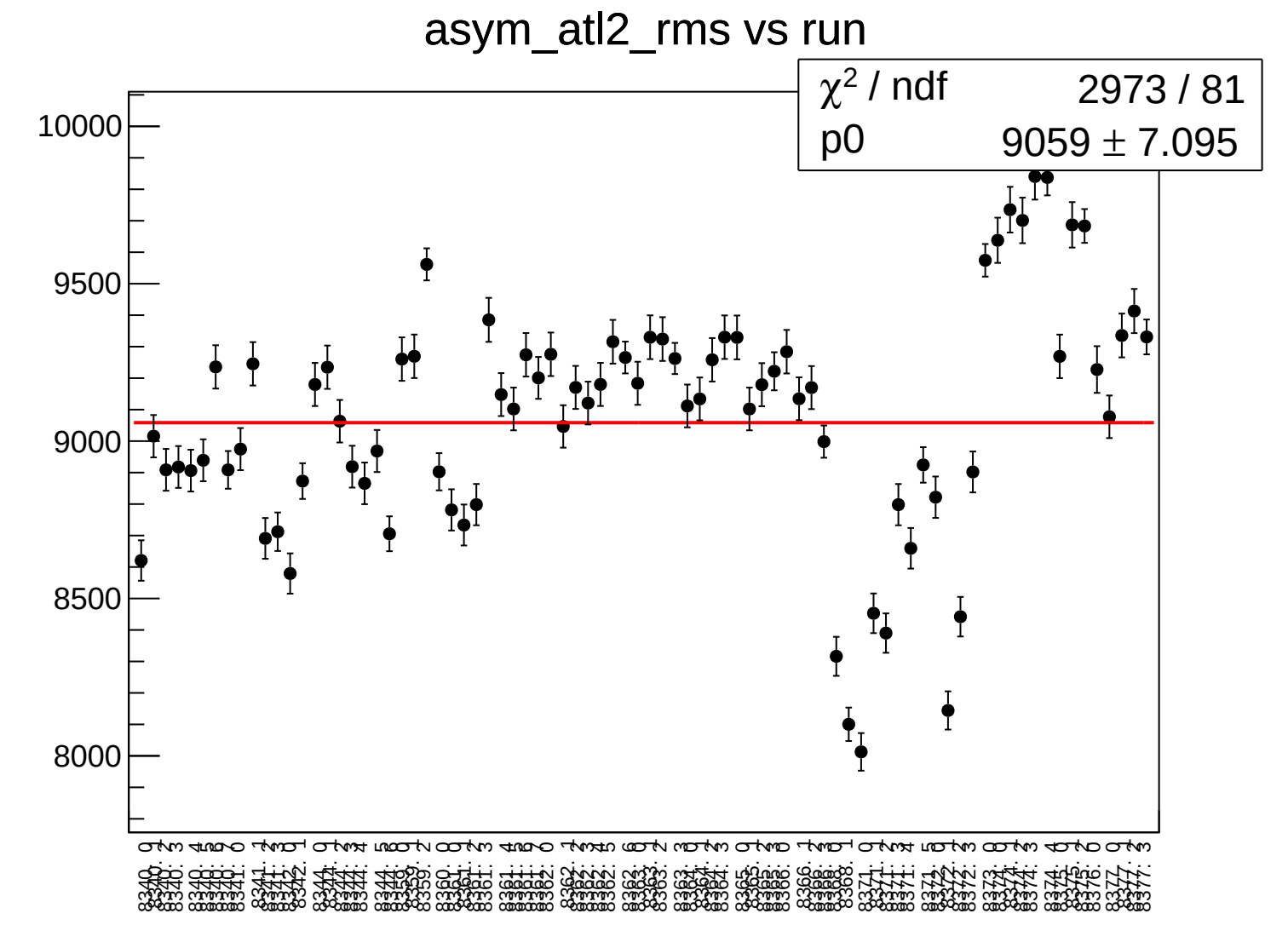

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 92.39 / 81
p0 −2.327e+04 ± 9695
pull
Entries 82
Mean −29.14
Std Dev 64.42

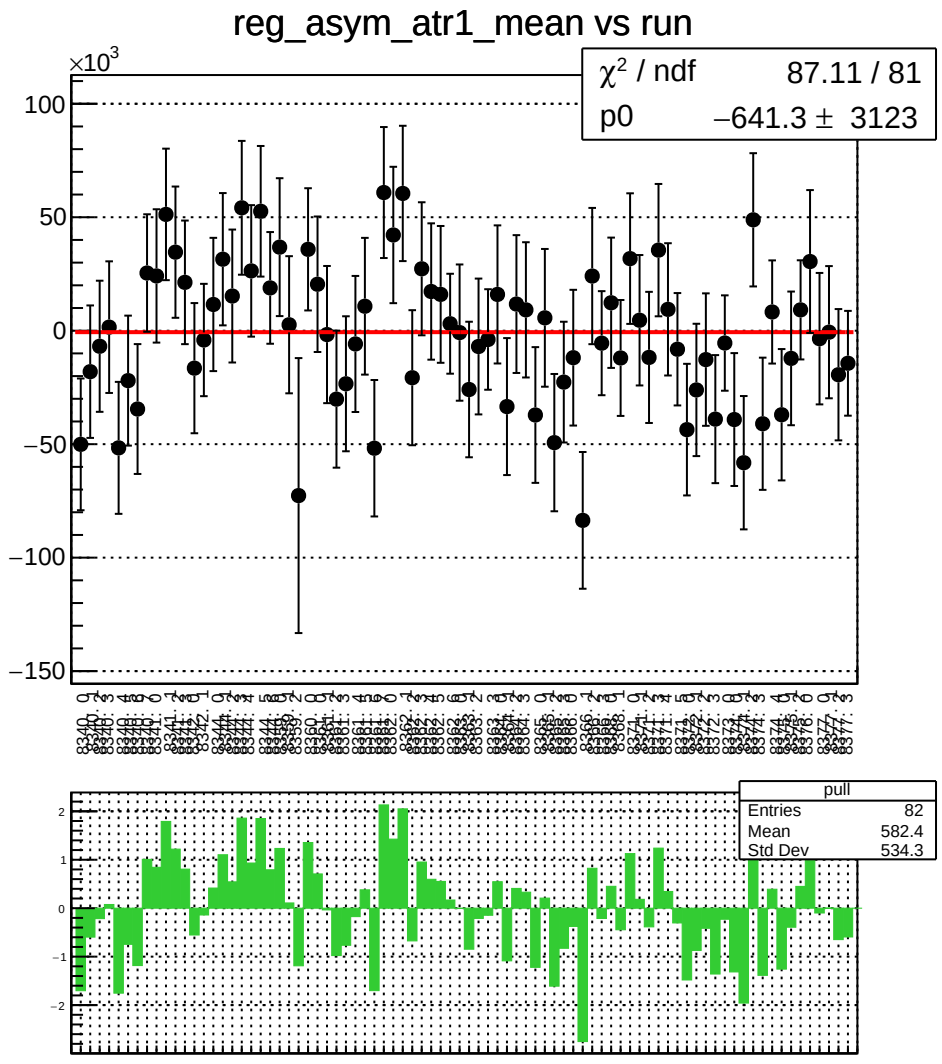

pull1D
Entries 82
Mean 0.02862
Std Dev 1.061

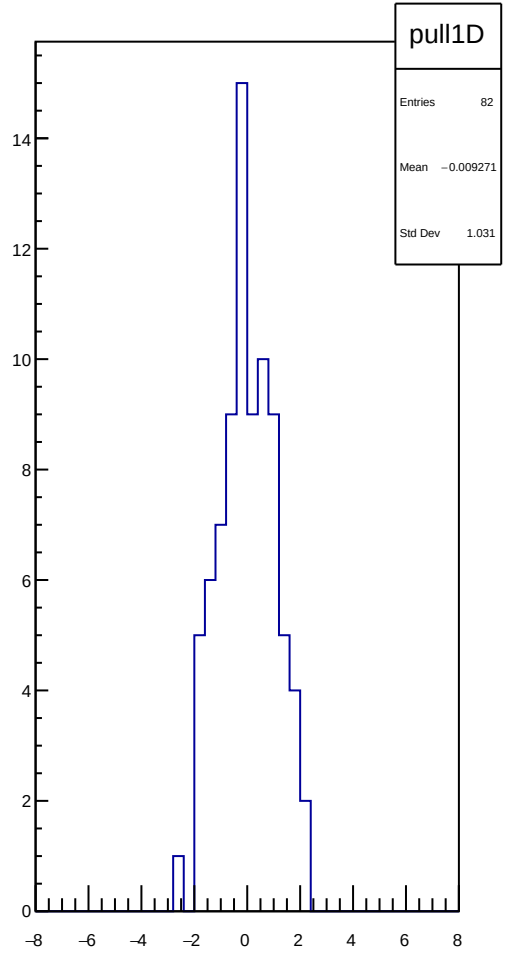

asym_atl2_correction_rms vs run
χ² / ndf 3335 / 81
p0 8752 ± 6.855
9500
9000
8500
8000
7500

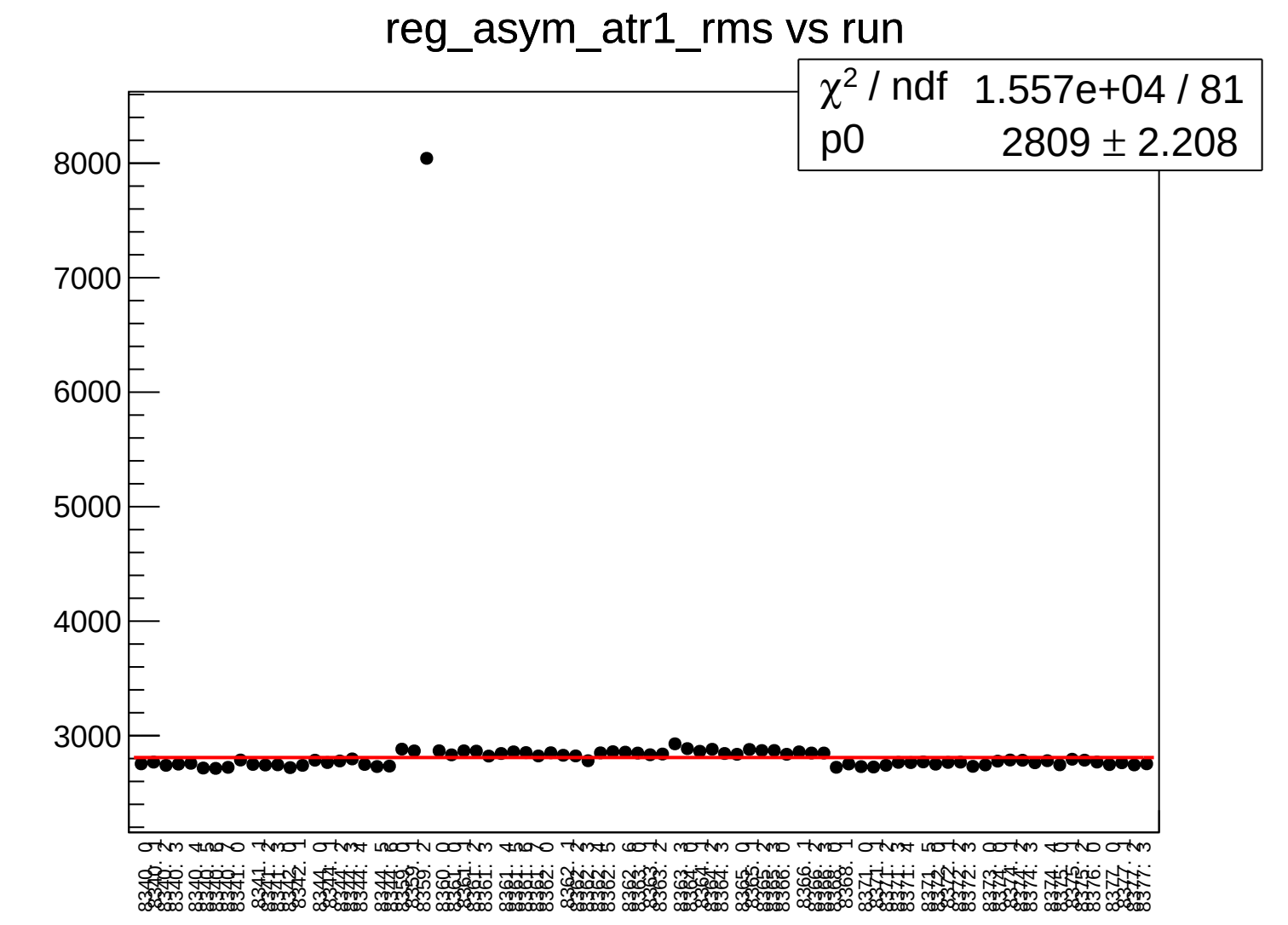

asym_atl2_mean vs run
×10^3
χ² / ndf 84.2 / 81
p0 2.245e+04 ± 1.003e+04
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −13.71
Std Dev 34.12
2
1
0
−1
−2

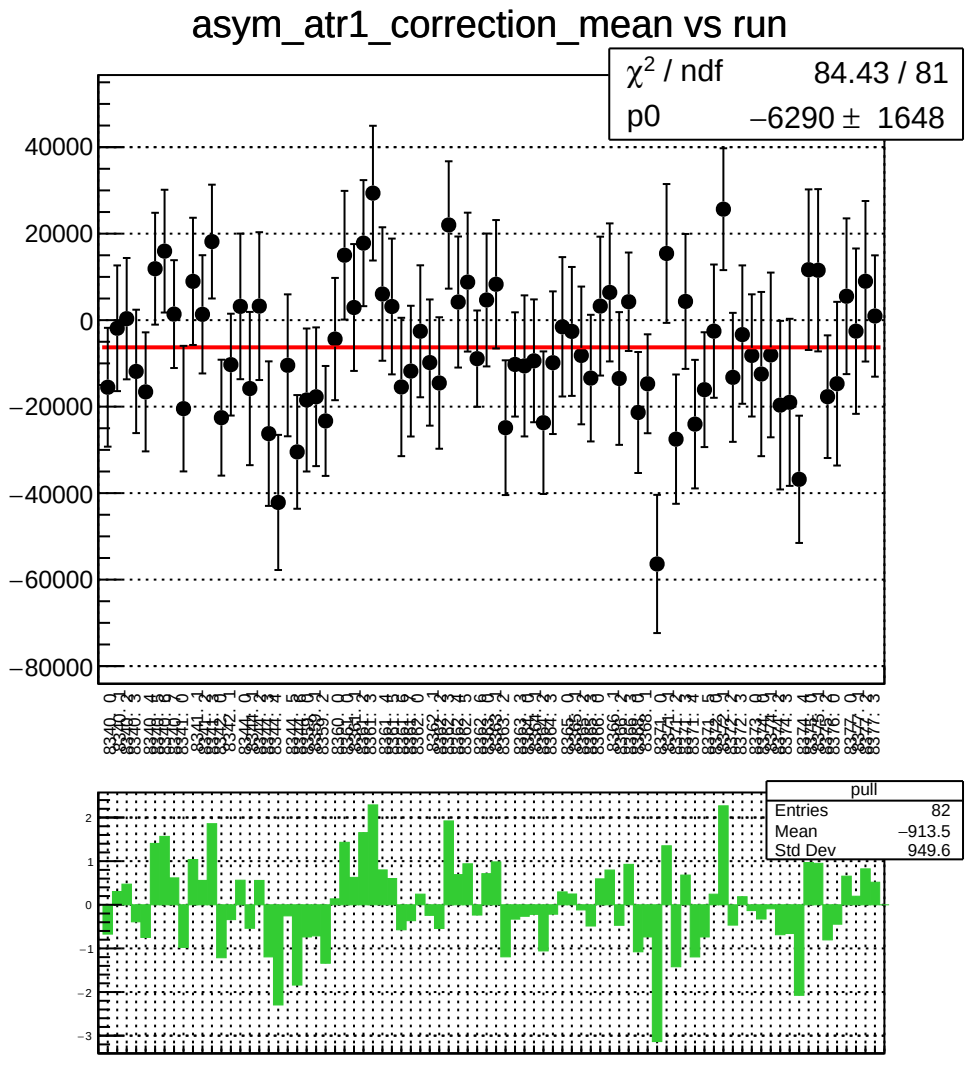

pull1D
Entries 82
Mean −0.02848
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

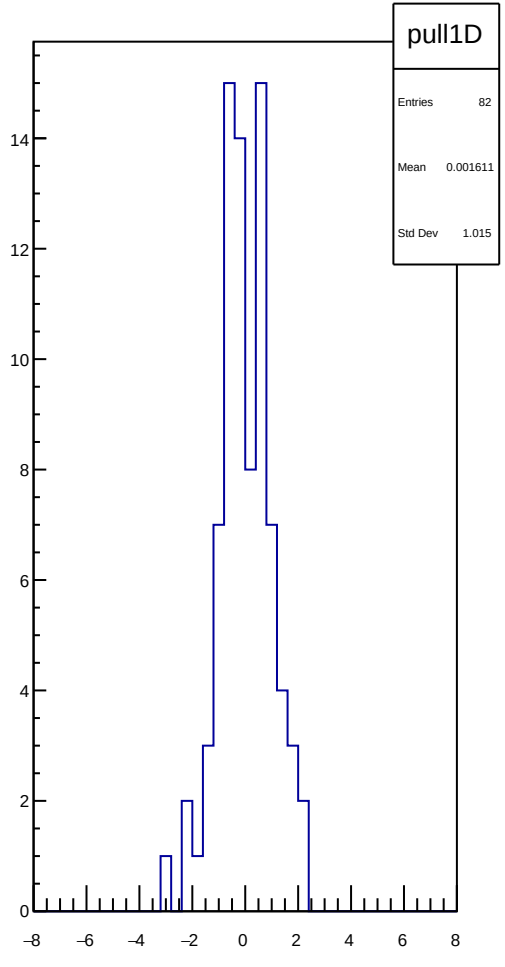

asym_atl2_rms vs run
χ² / ndf 2973 / 81
p0 9059 ± 7.095
10000
9500
9000
8500
8000

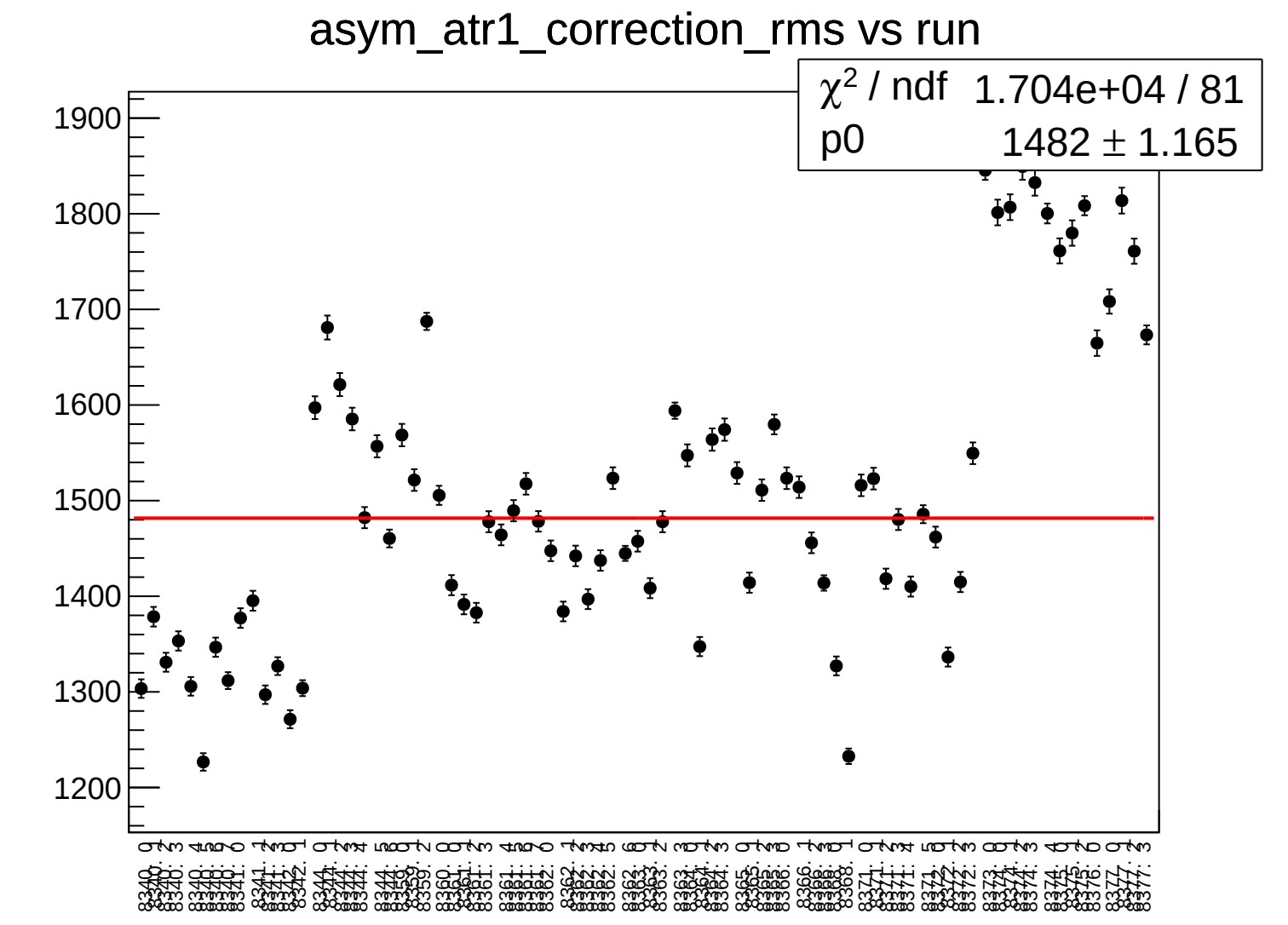

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 87.11 / 81
p0 −641.3 ± 3123
100
50
0
−50
−100
−150
pull
Entries 82
Mean 582.4
Std Dev 534.3
2
1
0
−1
−2

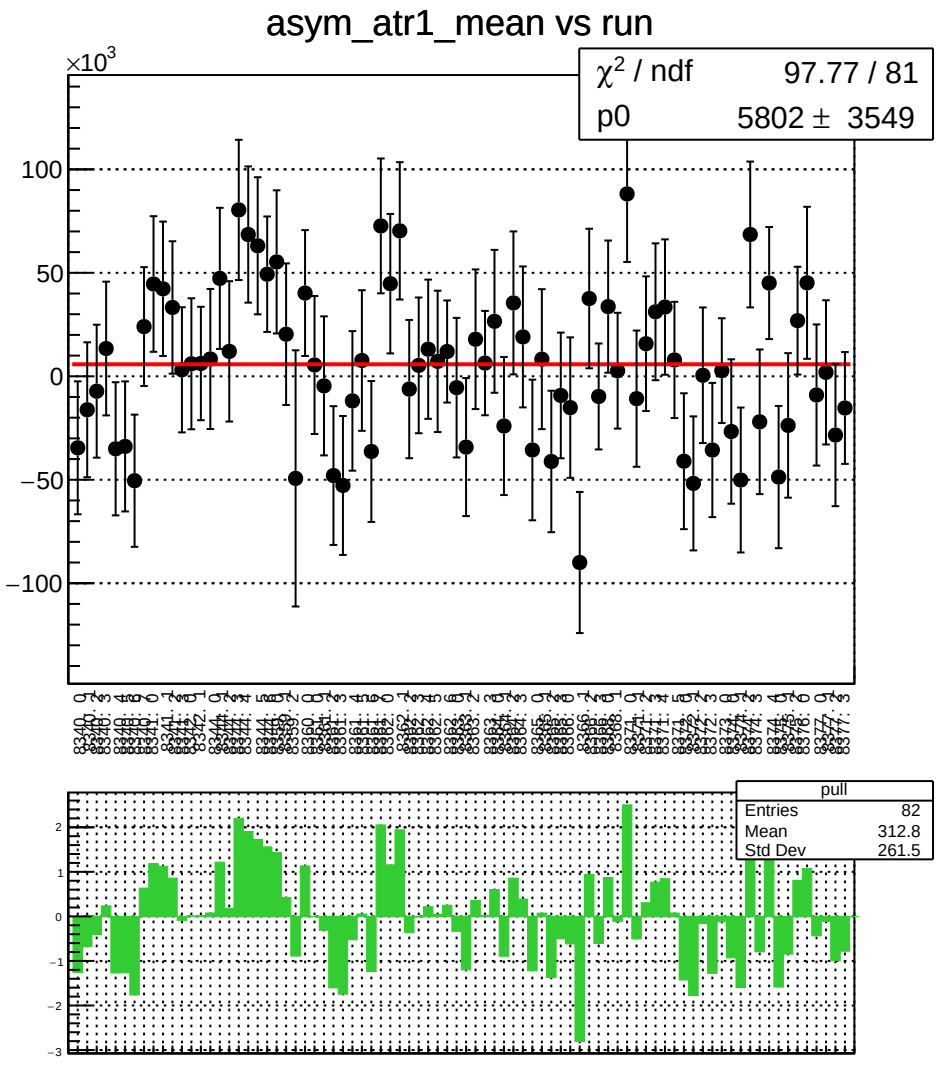

pull1D
Entries 82
Mean −0.009271
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

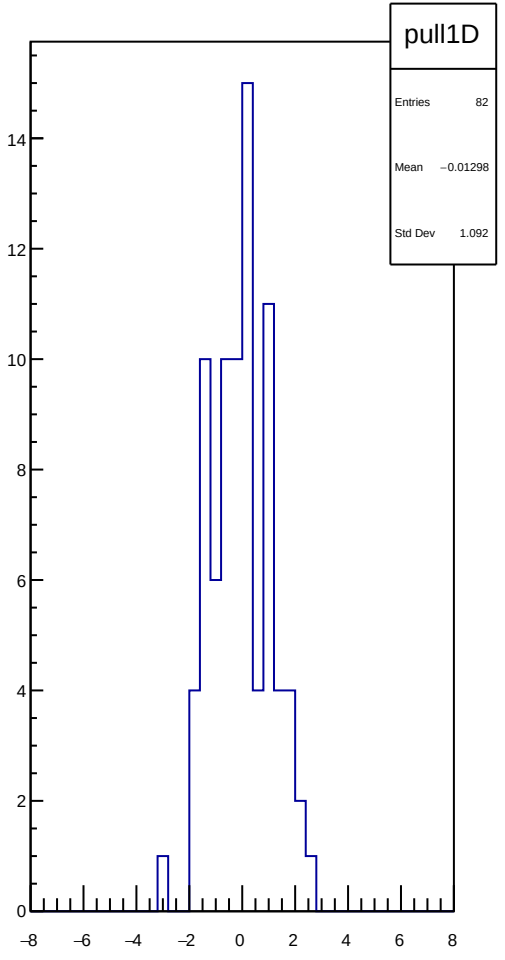

reg_asym_atr1_rms vs run
χ² / ndf 1.557e+04 / 81
p0 2809 ± 2.208
8000
7000
6000
5000
4000
3000

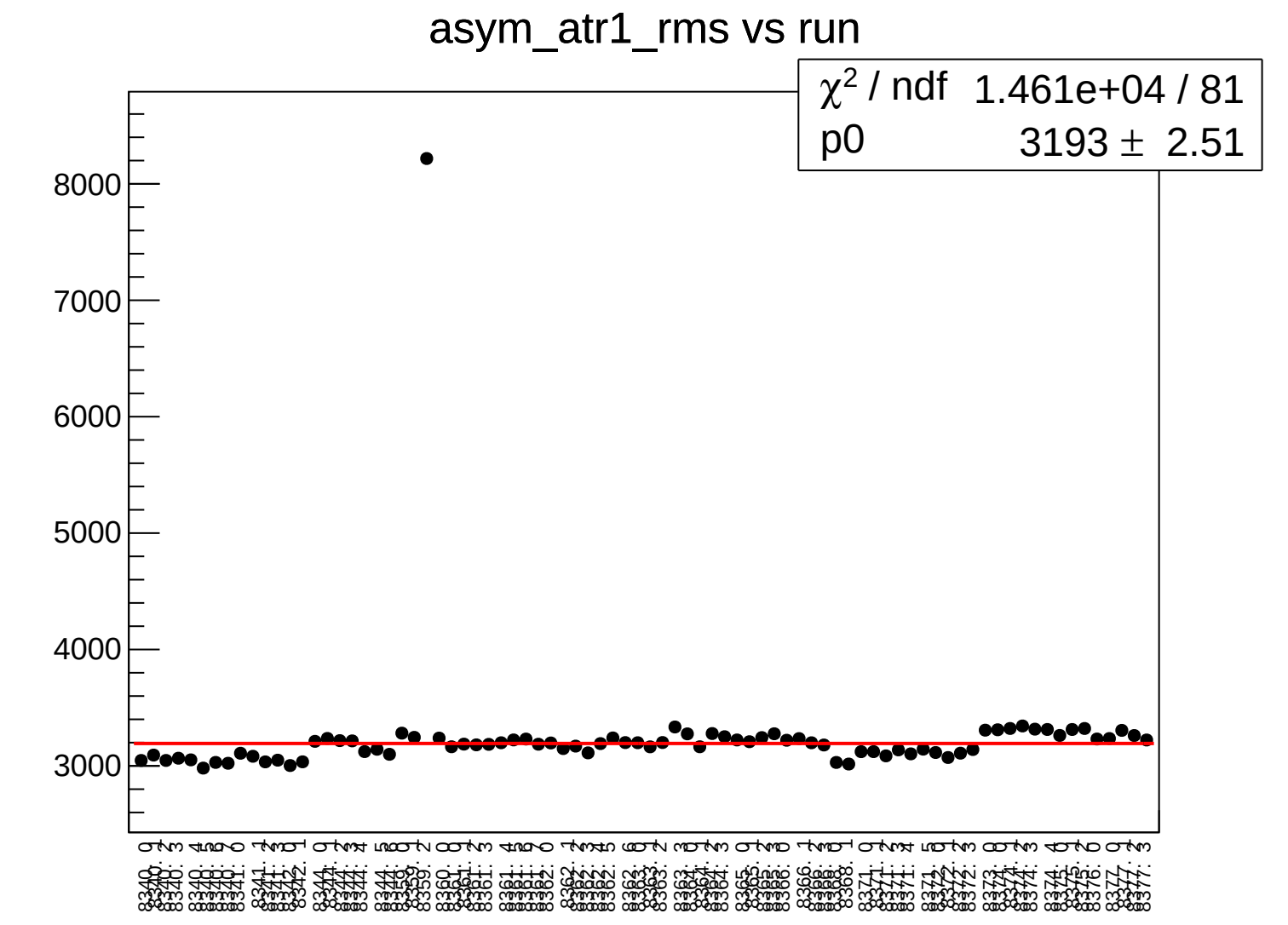

asym_atr1_correction_mean vs run
χ² / ndf 84.43 / 81
p0 −6290 ± 1648
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean −913.5
Std Dev 949.6
2
1
0
−1
−2
−3

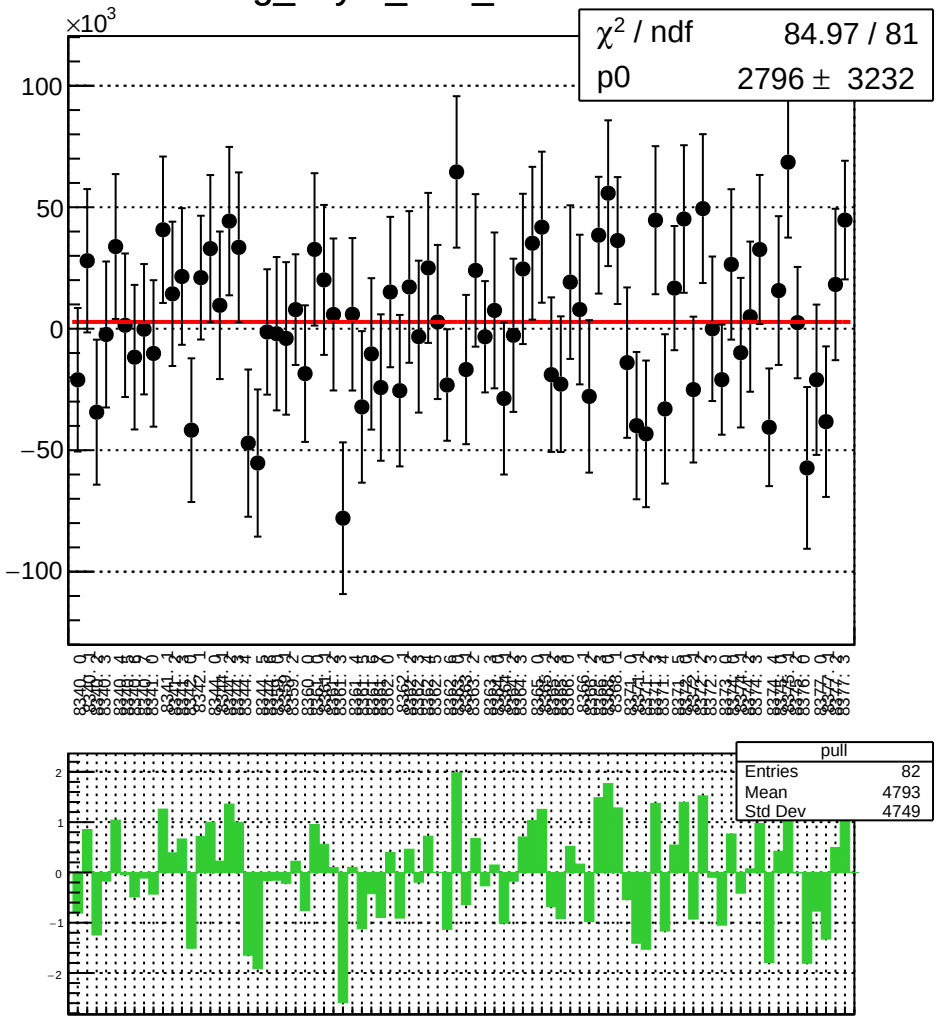

pull1D
Entries 82
Mean 0.001611
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

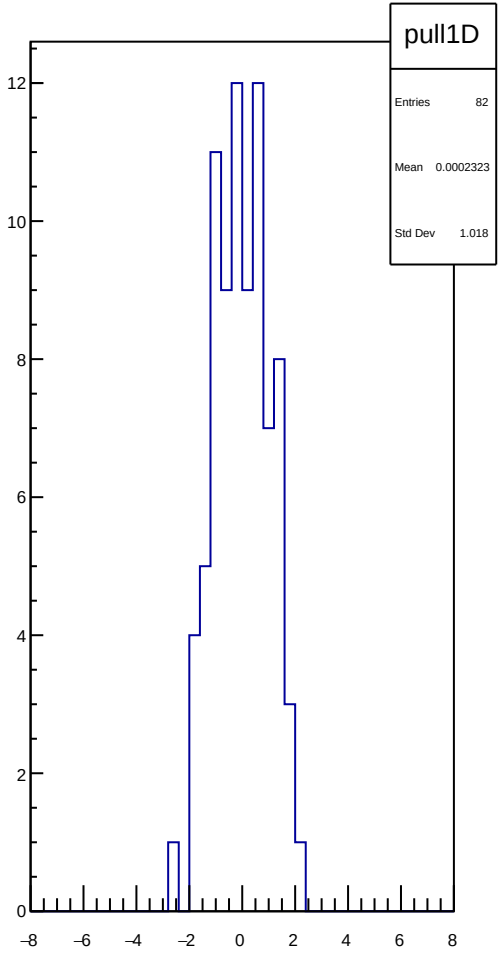

asym_atr1_correction_rms vs run
χ² / ndf 1.704e+04 / 81
p0 1482 ± 1.165
1900
1800
1700
1600
1500
1400
1300
1200

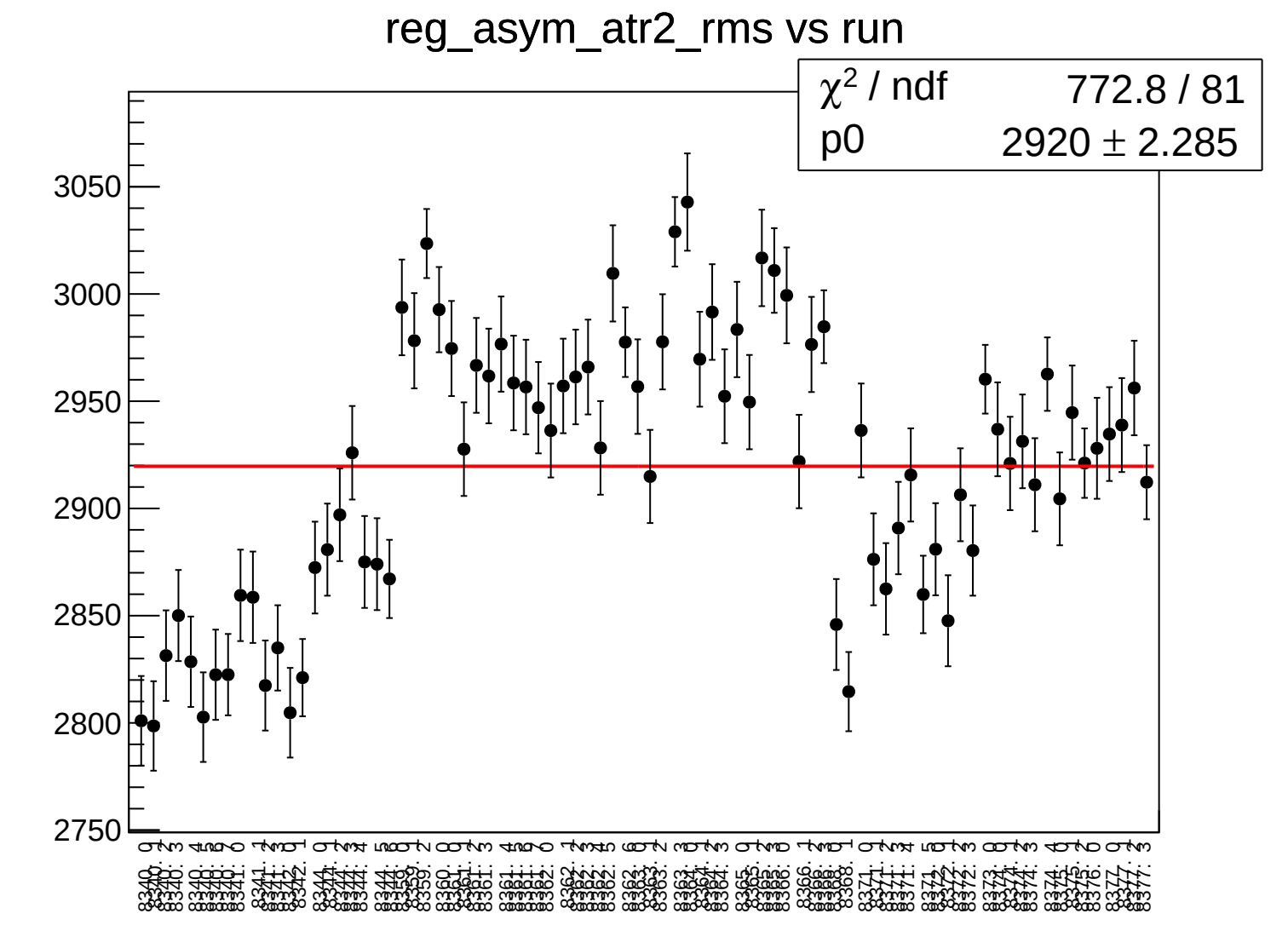

asym_atr1_mean vs run
×10^3
χ² / ndf 97.77 / 81
p0 5802 ± 3549
100
50
0
−50
−100
pull
Entries 82
Mean 312.8
Std Dev 261.5
2
1
0
−1
−2
−3

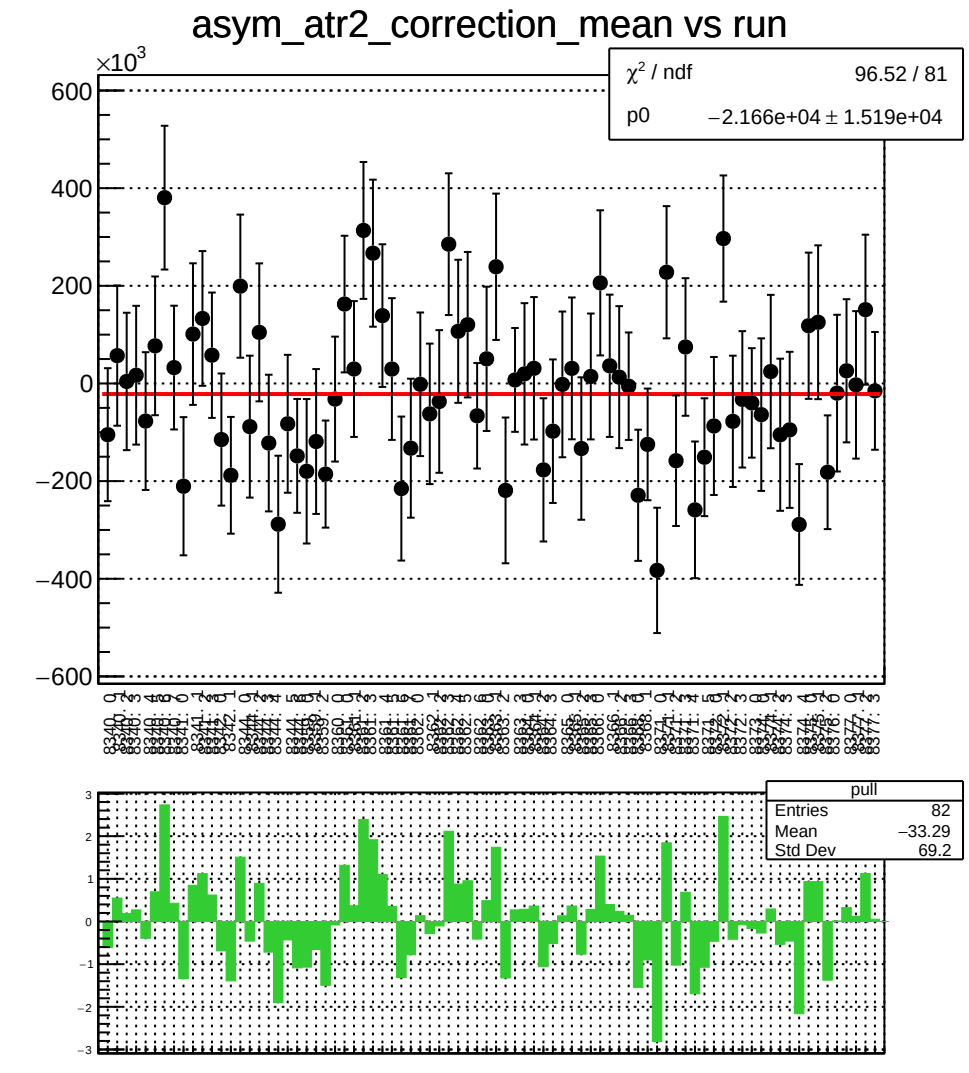

pull1D
Entries 82
Mean −0.01298
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

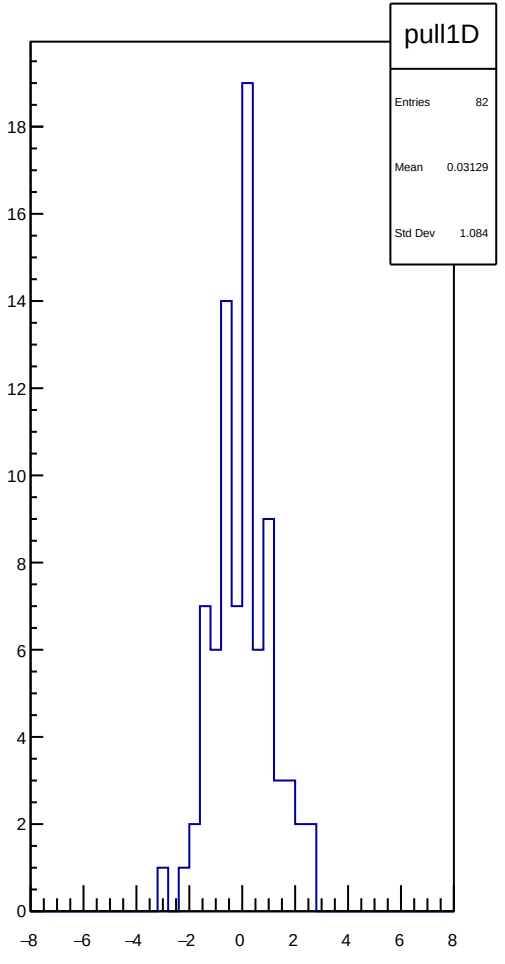

asym_atr1_rms vs run
χ² / ndf 1.461e+04 / 81
p0 3193 ± 2.51
8000
7000
6000
5000
4000
3000

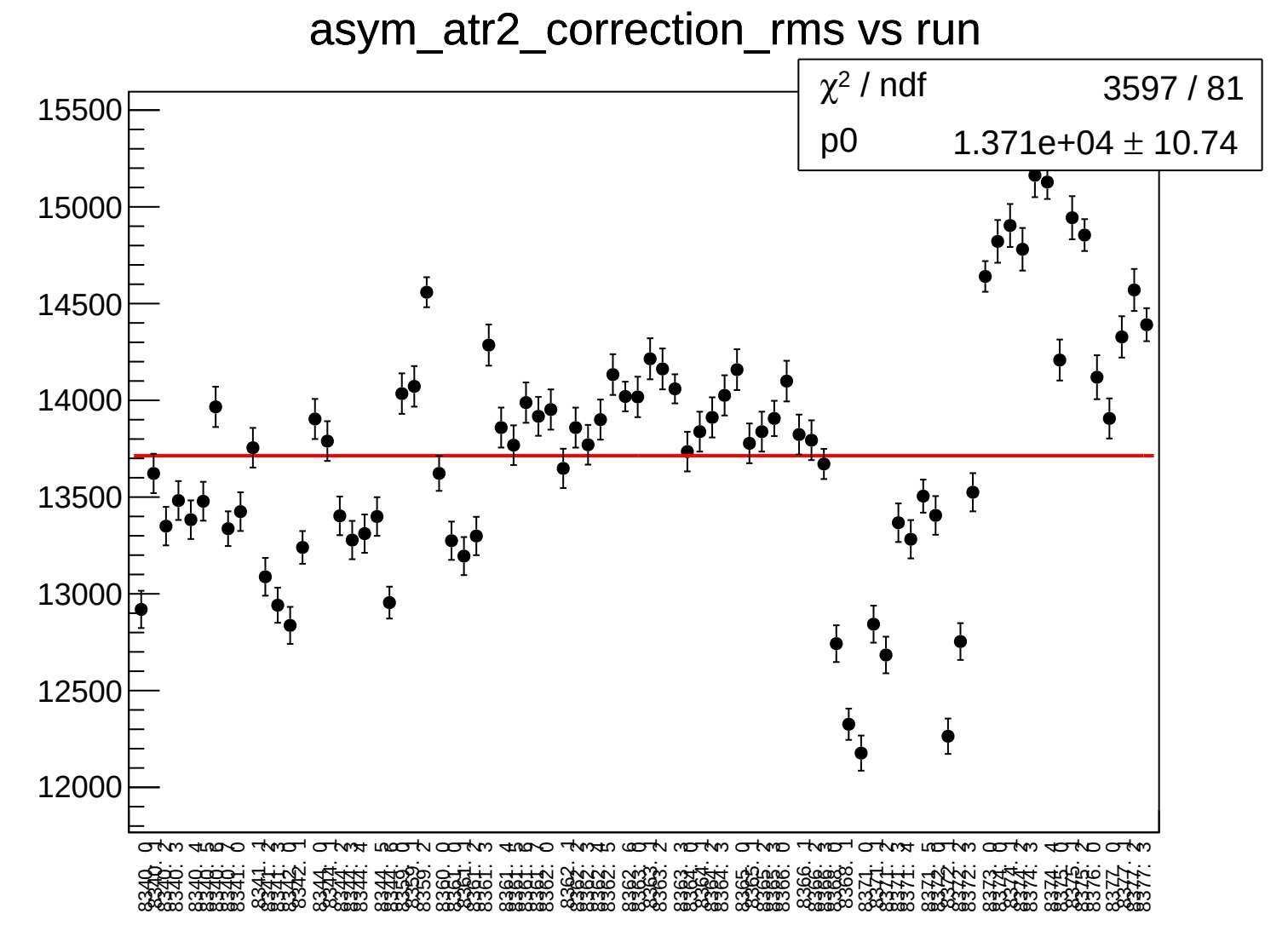

reg_asym_atr2_mean vs run
χ^2 / ndf 84.97 / 81
p0 2796 ± 3232
×10^3
pull
Entries 82
Mean 4793
Std Dev 4749

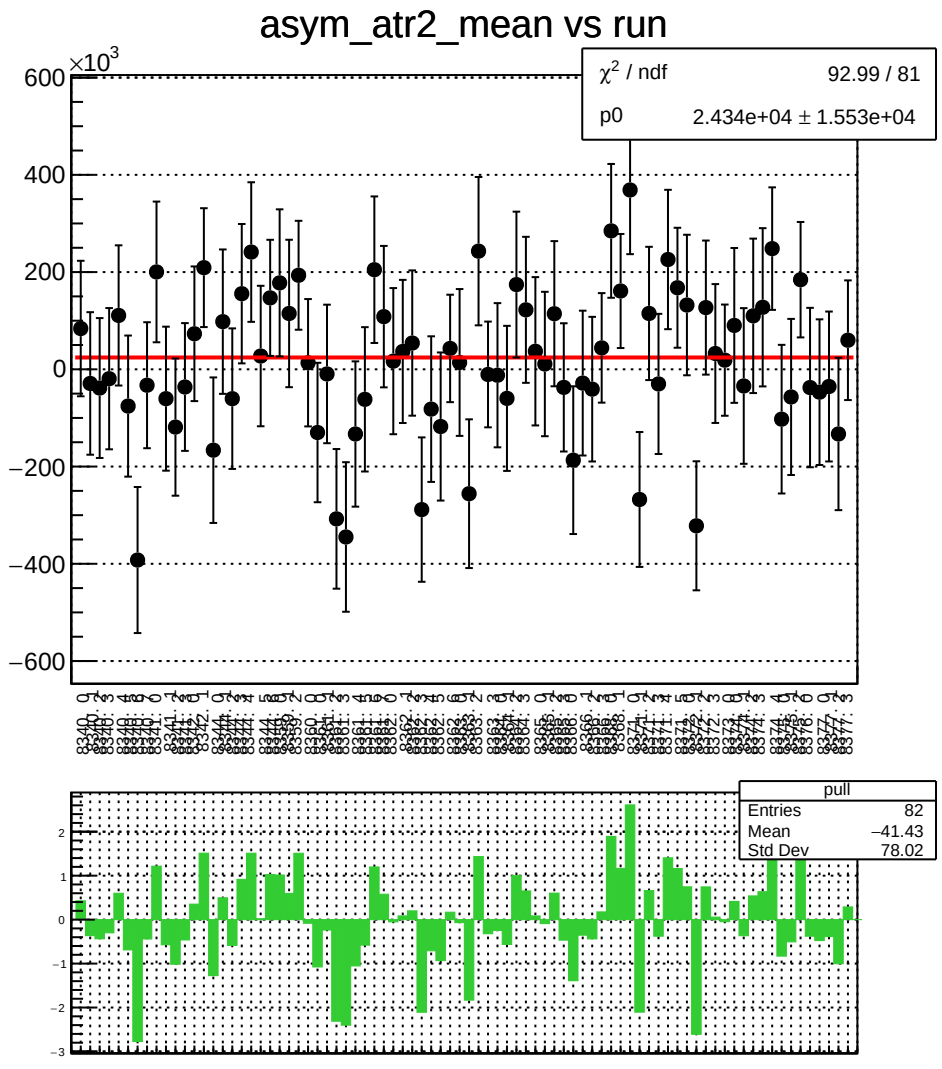

pull1D
Entries 82
Mean 0.0002323
Std Dev 1.018

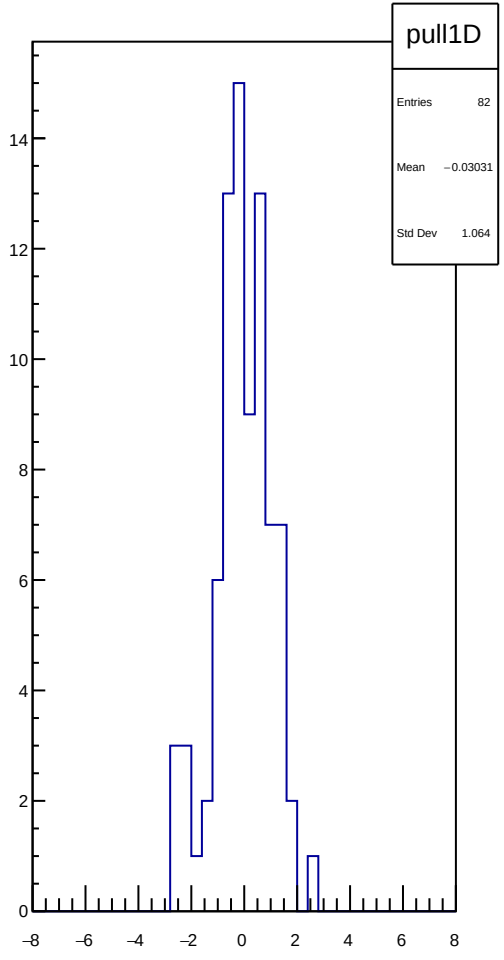

reg_asym_atr2_rms vs run
χ² / ndf 772.8 / 81
p0 2920 ± 2.285
3050
3000
2950
2900
2850
2800
2750

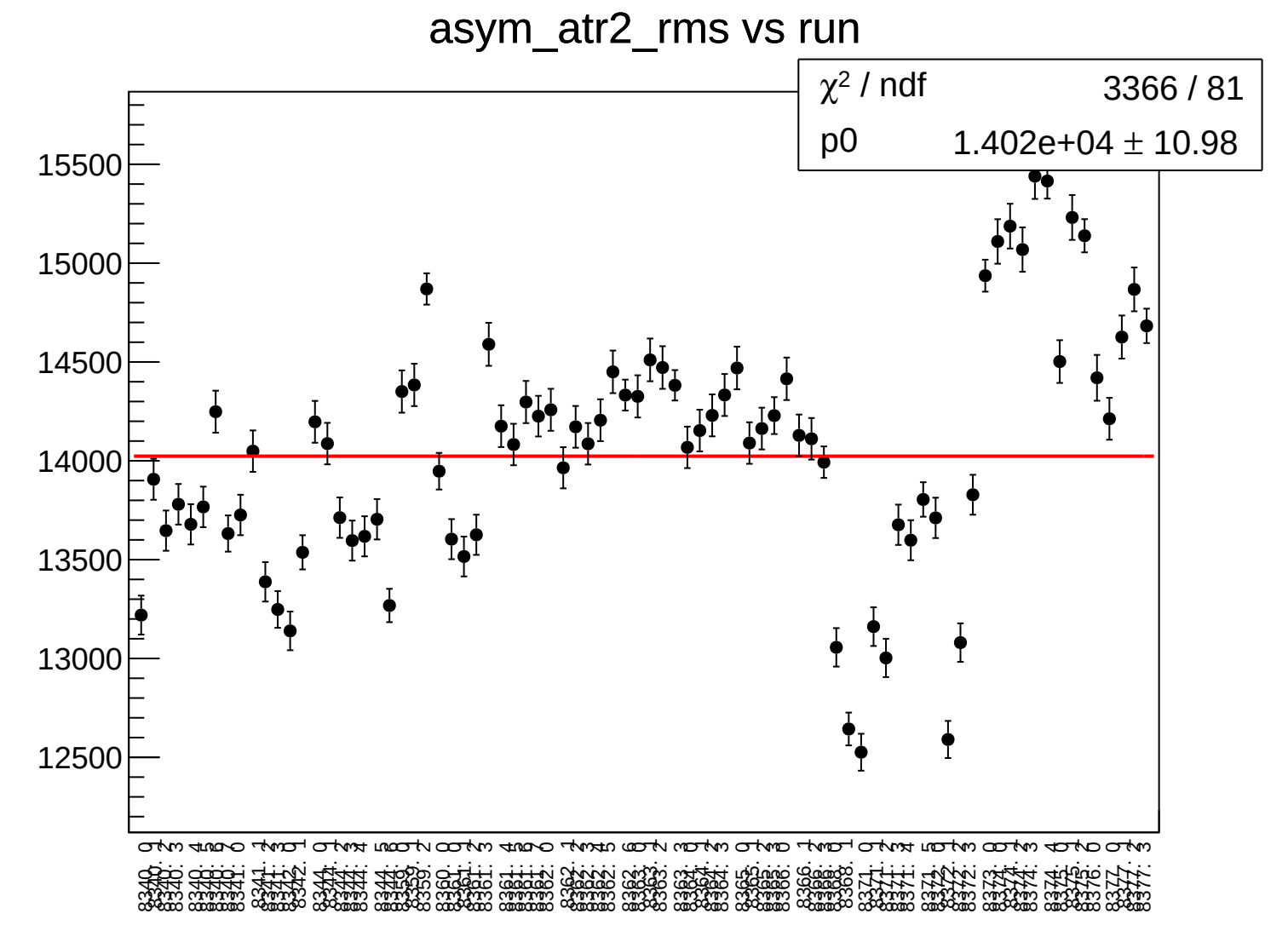

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 96.52 / 81
p0 −2.166e+04 ± 1.519e+04
pull
Entries 82
Mean −33.29
Std Dev 69.2

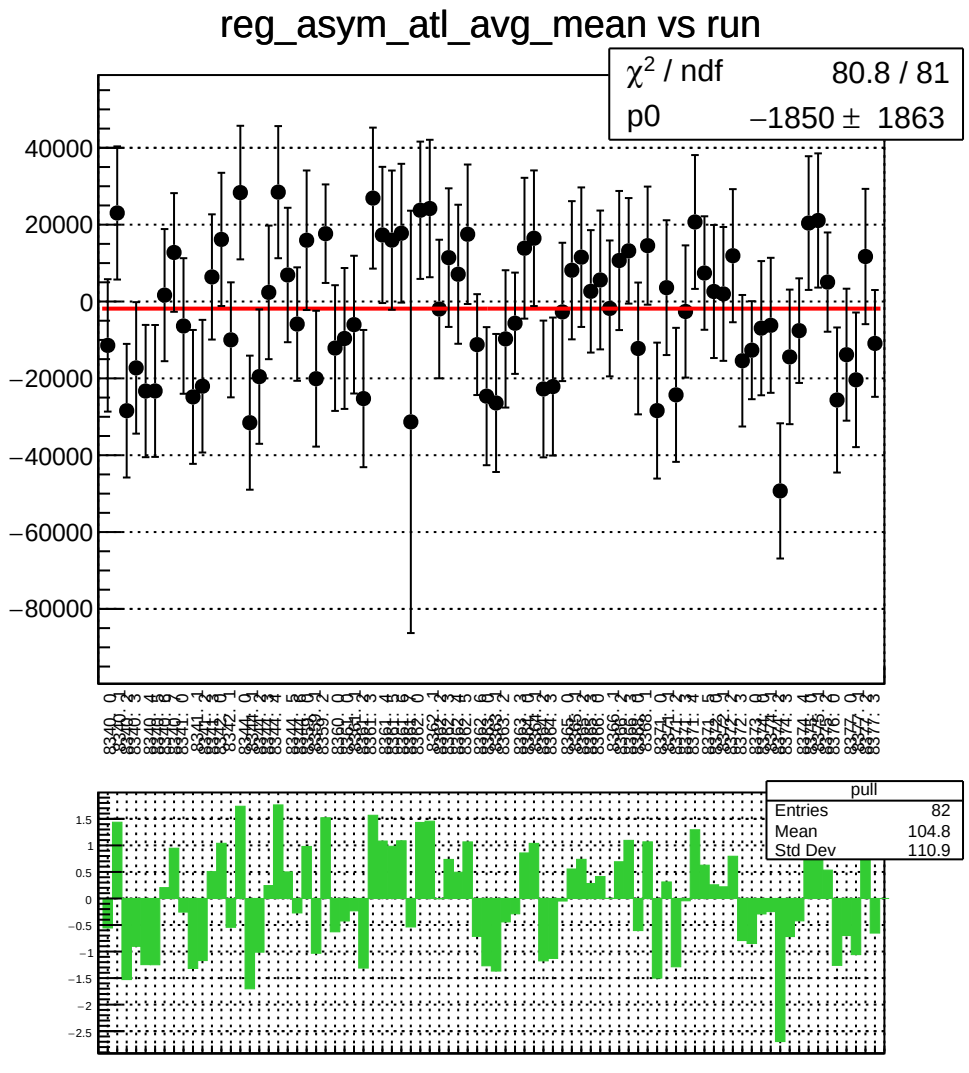

pull1D
Entries 82
Mean 0.03129
Std Dev 1.084

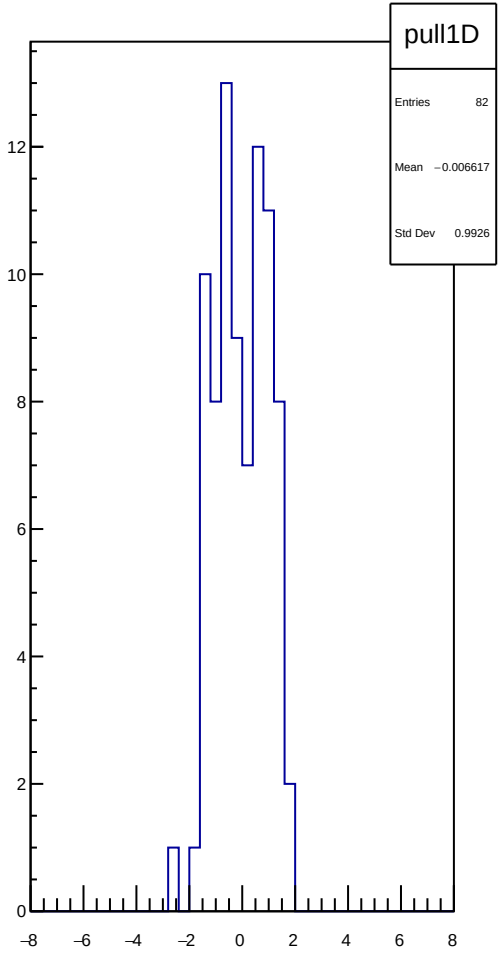

asym_atr2_correction_rms vs run
χ² / ndf 3597 / 81
p0 1.371e+04 ± 10.74
15500
15000
14500
14000
13500
13000
12500
12000

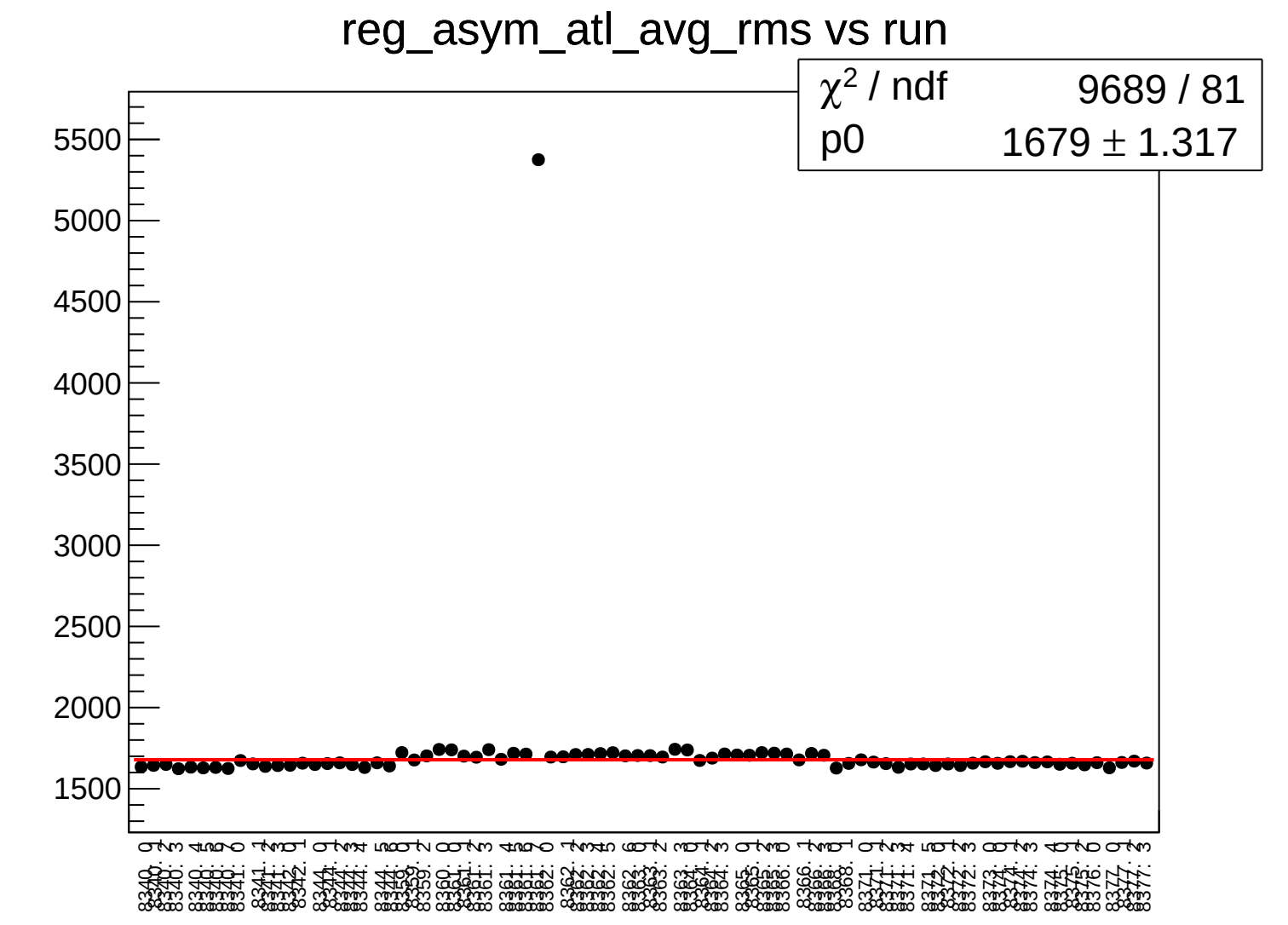

asym_atr2_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 92.99 / 81
p0 2.434e+04 ± 1.553e+04
pull
Entries 82
Mean −41.43
Std Dev 78.02
2
1
0
−1
−2
−3

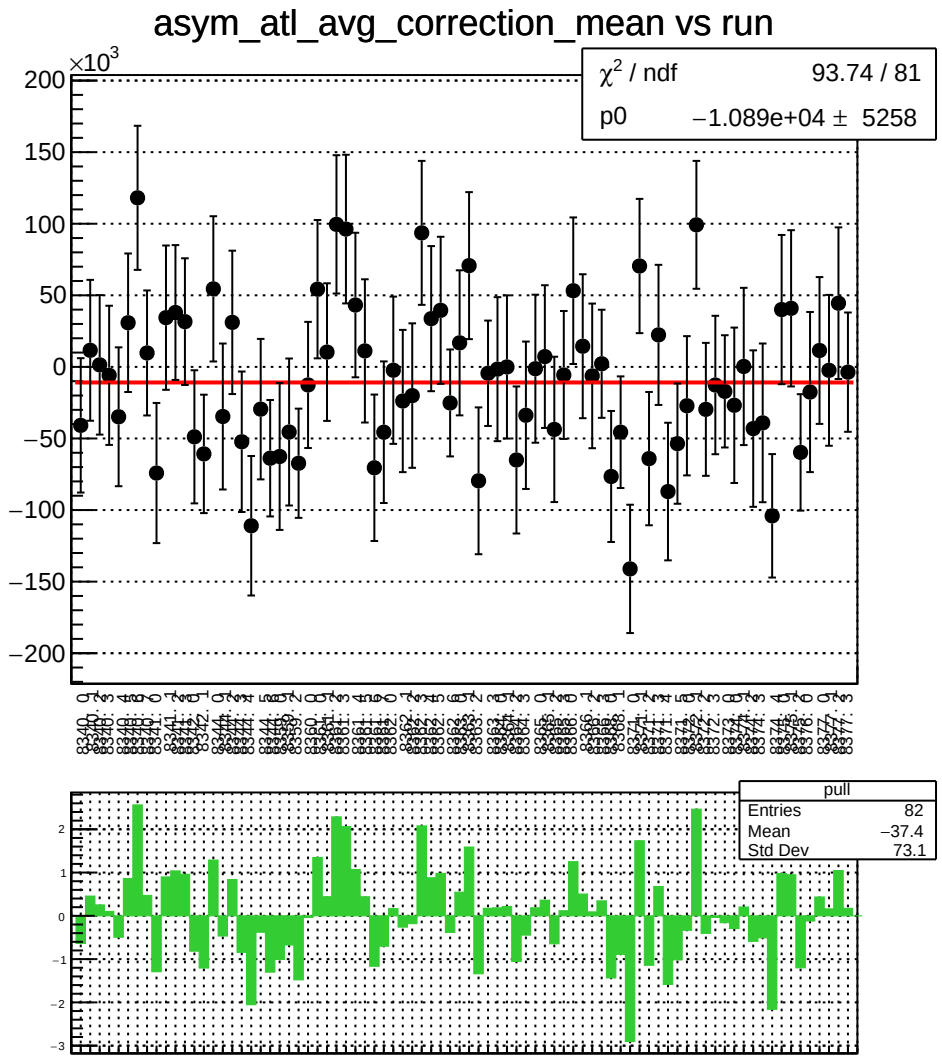

pull1D
Entries 82
Mean −0.03031
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

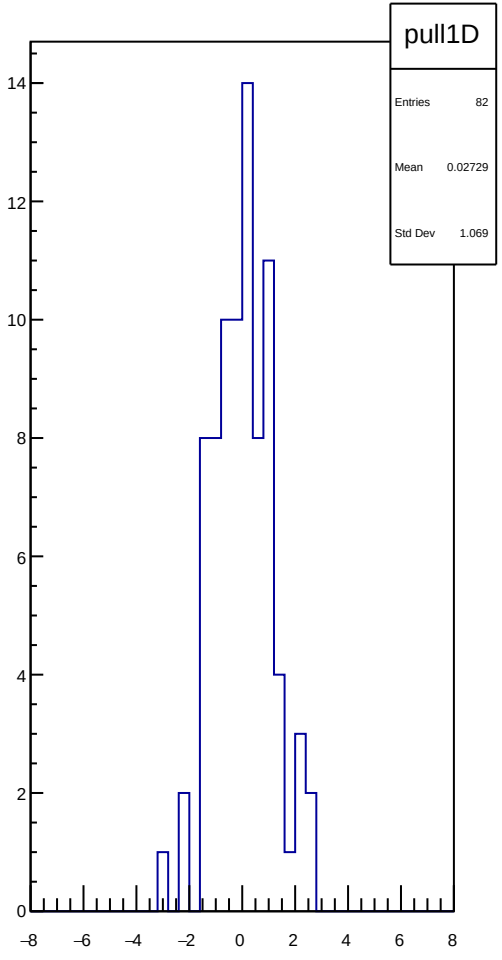

asym_atr2_rms vs run
χ² / ndf 3366 / 81
p0 1.402e+04 ± 10.98
15500
15000
14500
14000
13500
13000
12500

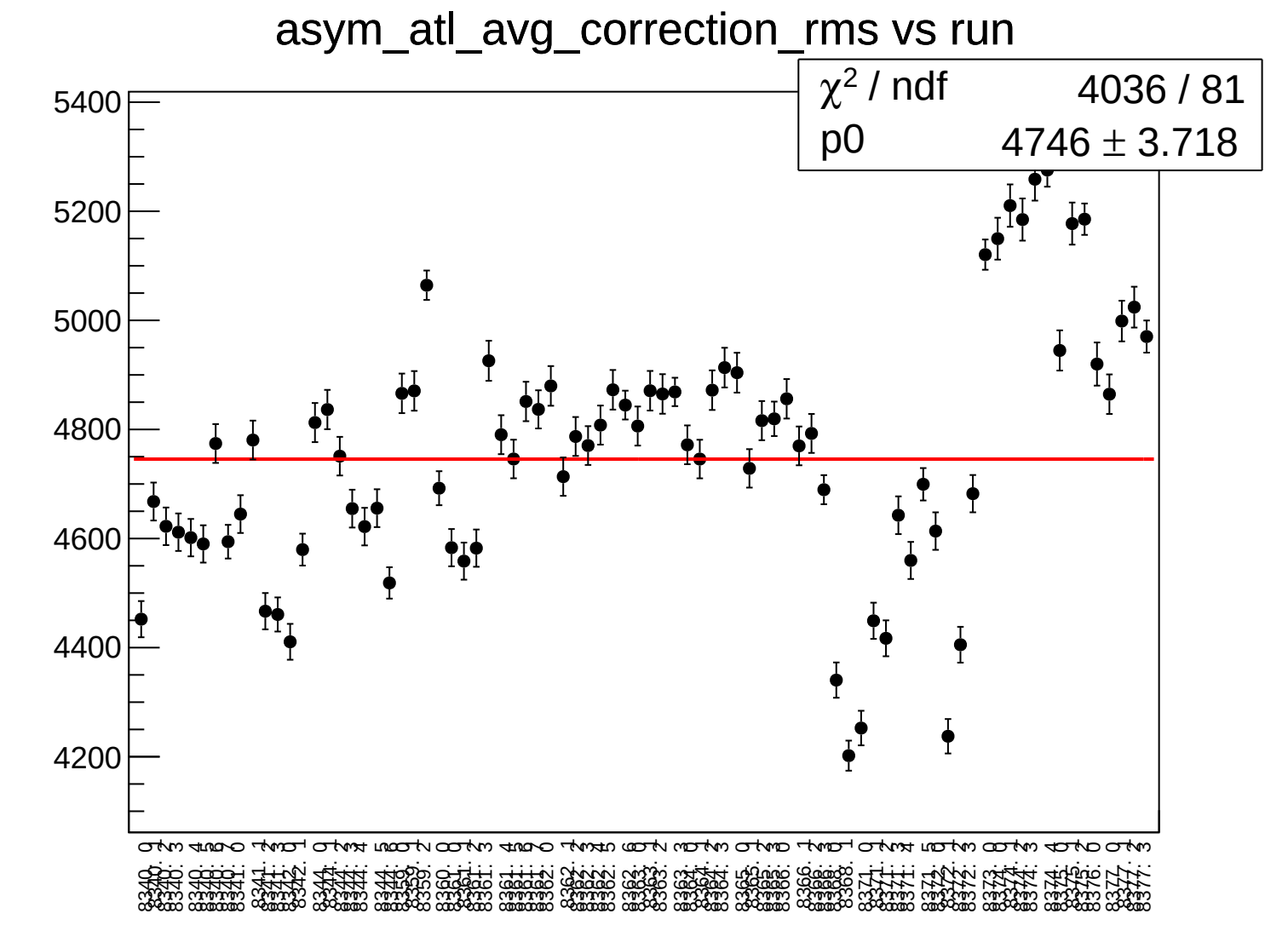

reg_asym_atl_avg_mean vs run
χ² / ndf 80.8 / 81
p0 −1850 ± 1863
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 104.8
Std Dev 110.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

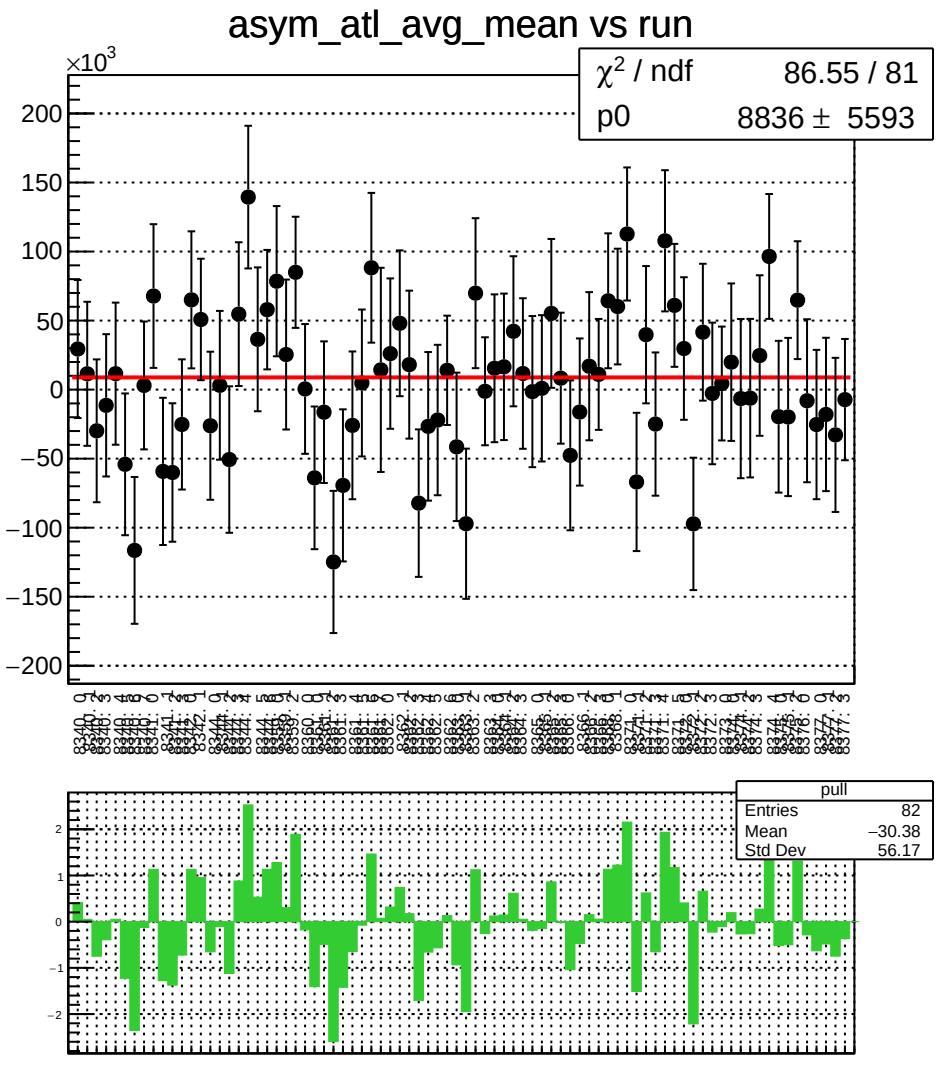

pull1D
Entries 82
Mean −0.006617
Std Dev 0.9926
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

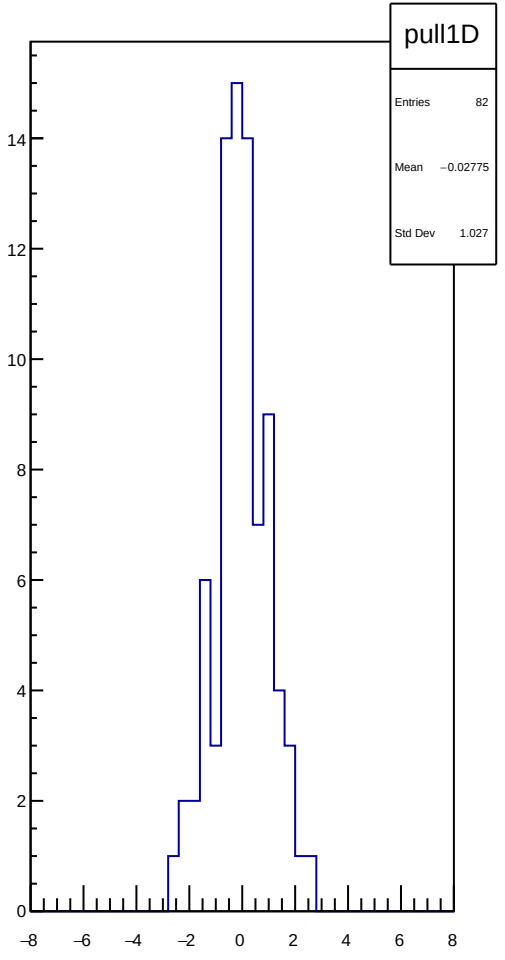

reg_asym_atl_avg_rms vs run
χ² / ndf 9689 / 81
p0 1679 ± 1.317
5500
5000
4500
4000
3500
3000
2500
2000
1500

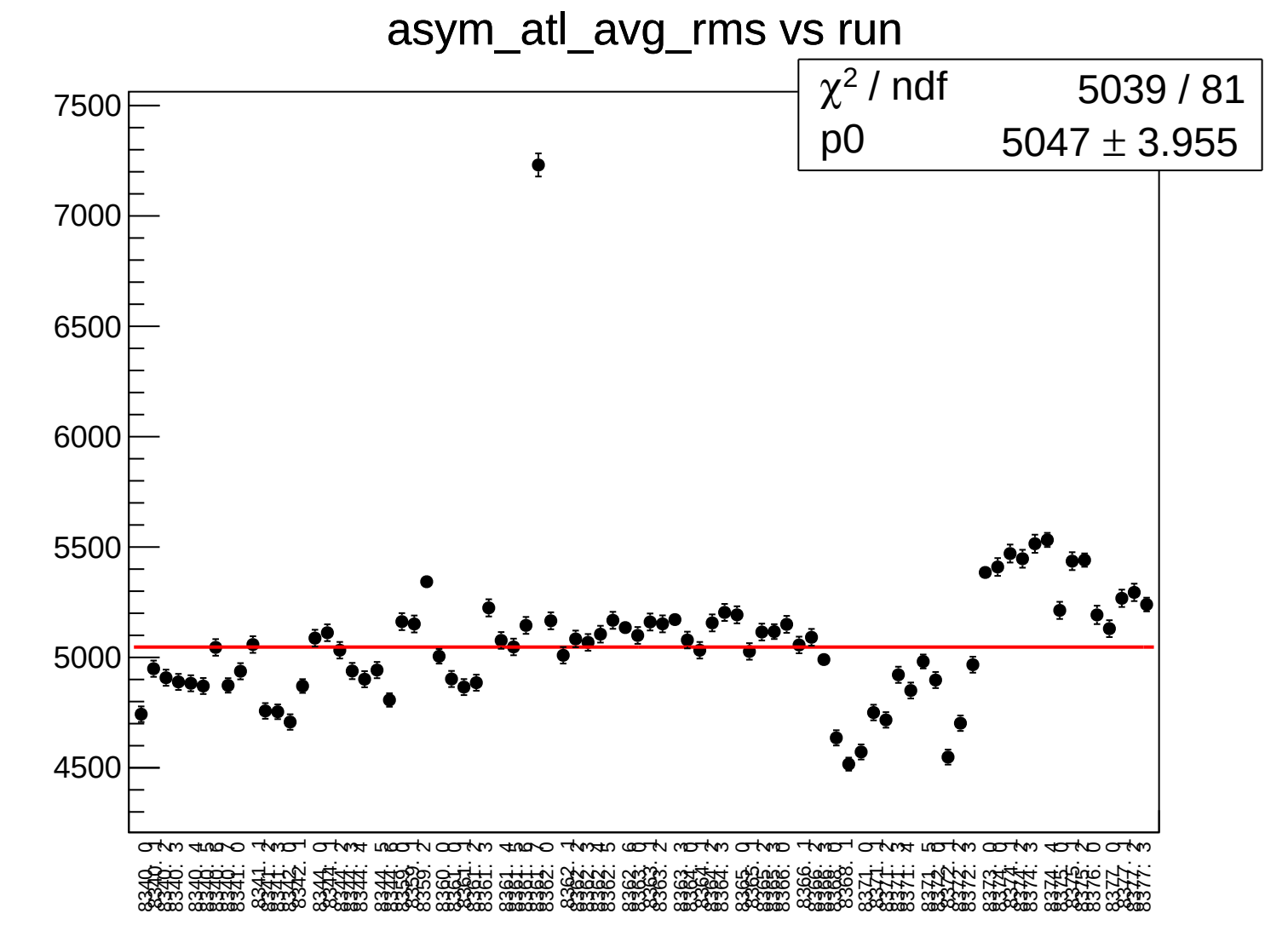

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 93.74 / 81
p0 −1.089e+04 ± 5258
pull
Entries 82
Mean −37.4
Std Dev 73.1

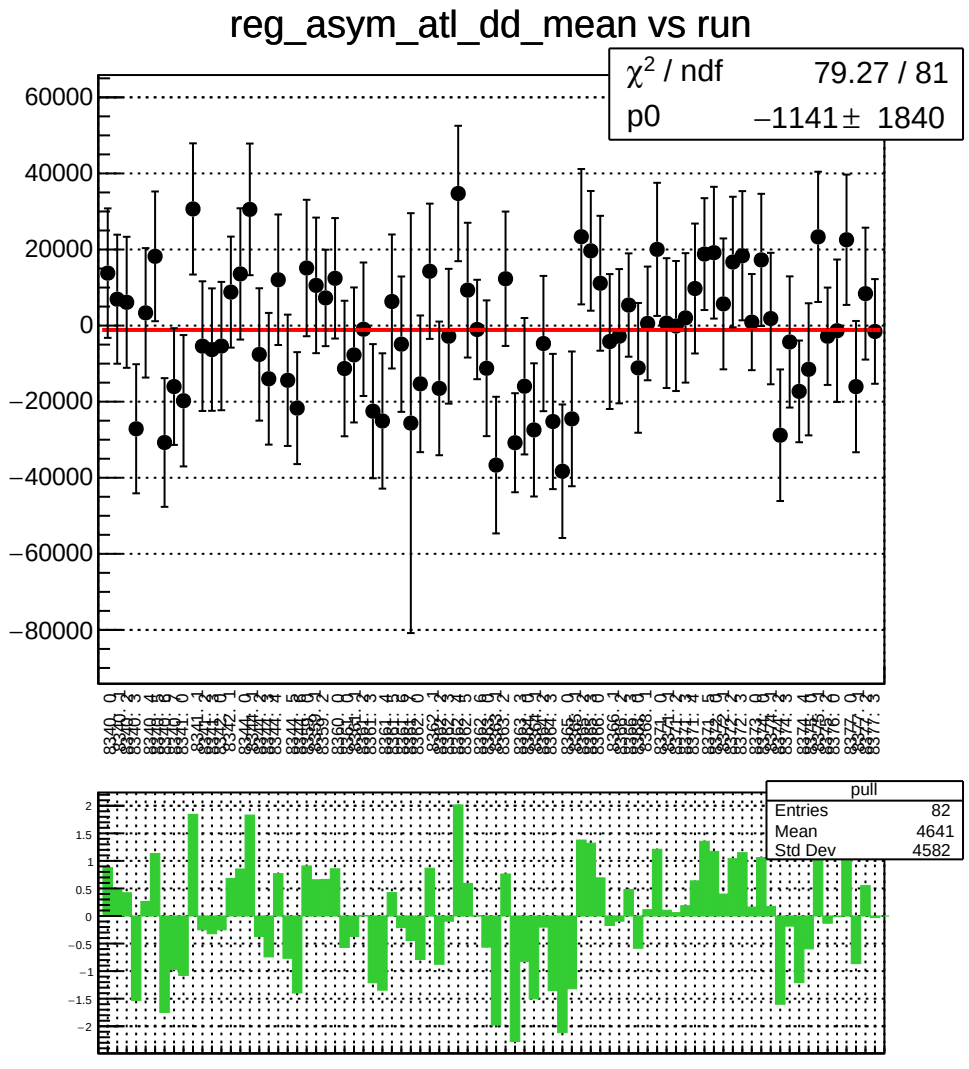

pull1D
Entries 82
Mean 0.02729
Std Dev 1.069

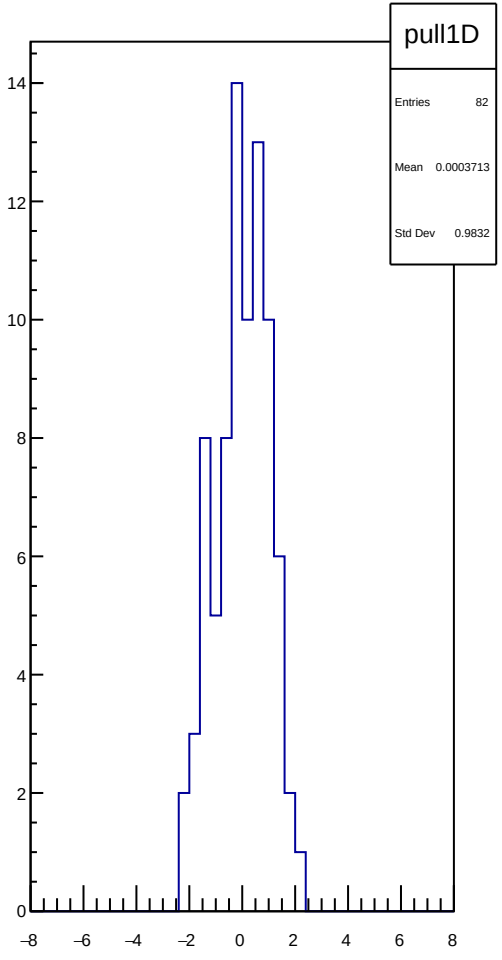

asym_atl_avg_correction_rms vs run
χ² / ndf 4036 / 81
p0 4746 ± 3.718
5400
5200
5000
4800
4600
4400
4200

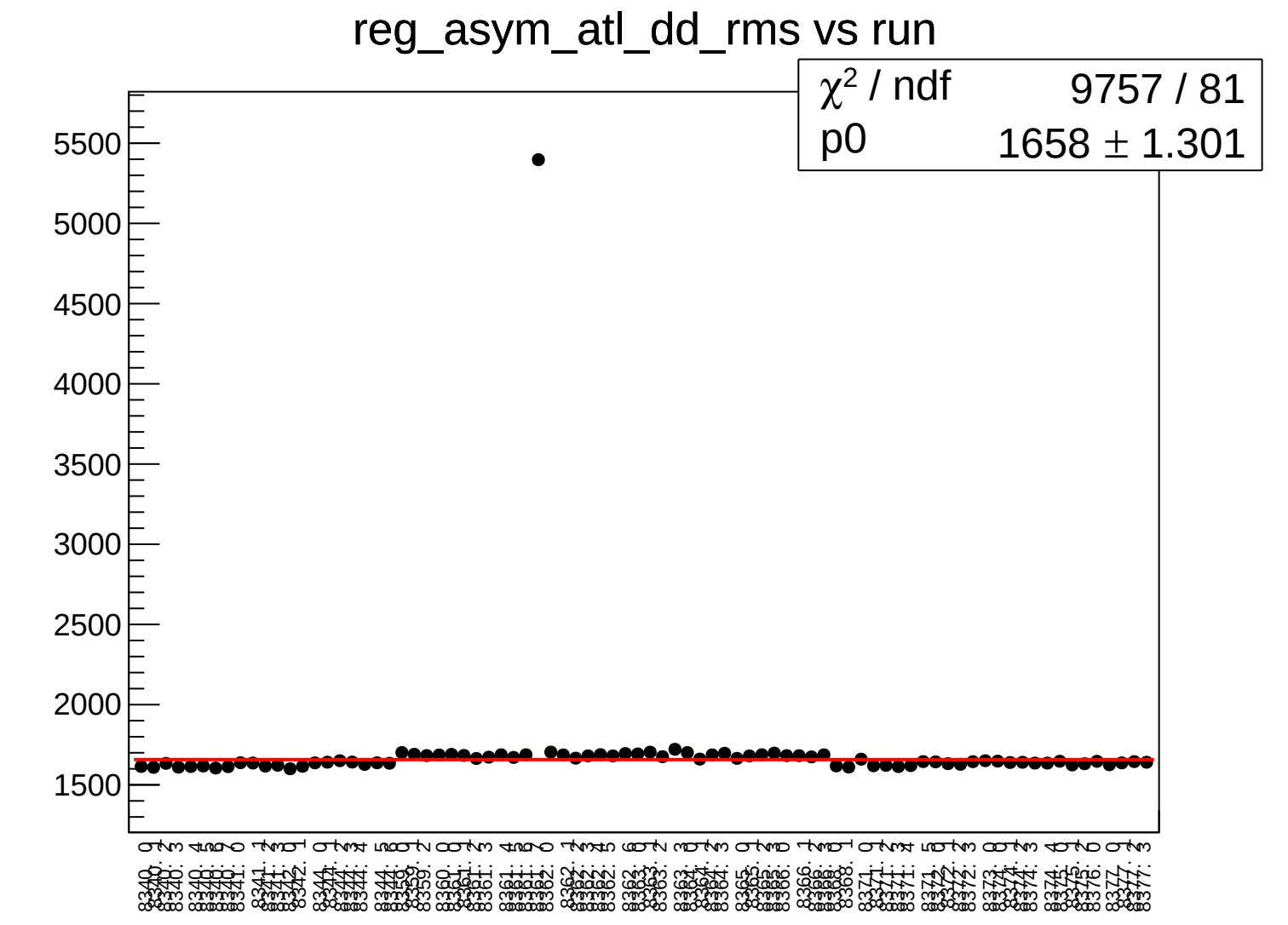

asym_atl_avg_mean vs run
×10^3
χ² / ndf 86.55 / 81
p0 8836 ± 5593
pull
Entries 82
Mean −30.38
Std Dev 56.17

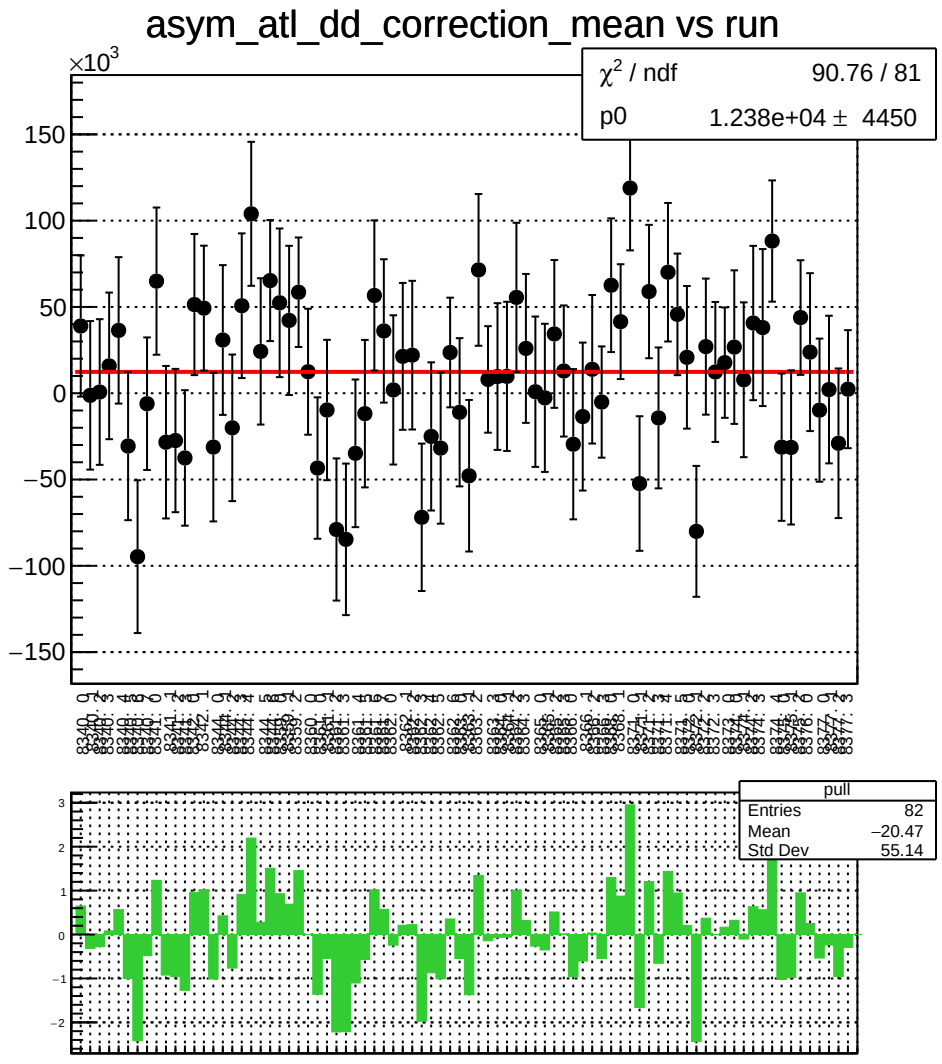

pull1D
Entries 82
Mean −0.02775
Std Dev 1.027

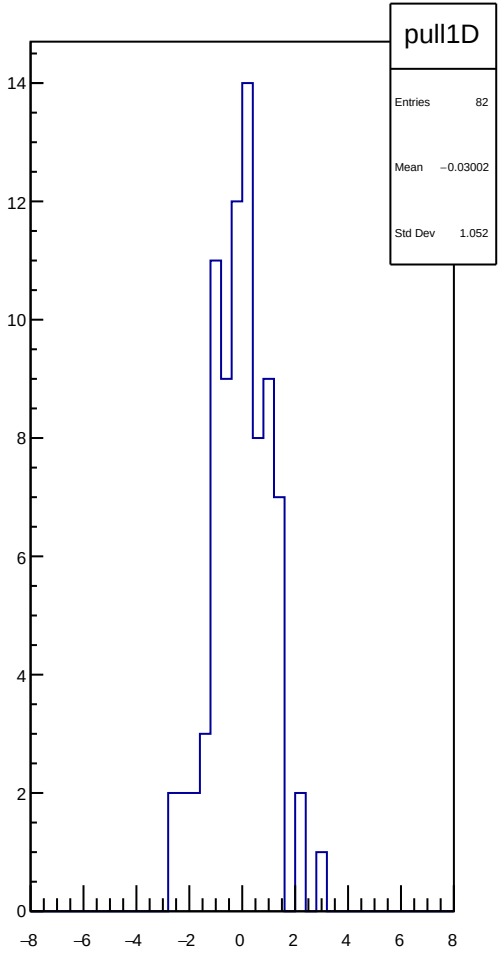

asym_atl_avg_rms vs run
χ² / ndf 5039 / 81
p0 5047 ± 3.955
7500
7000
6500
6000
5500
5000
4500

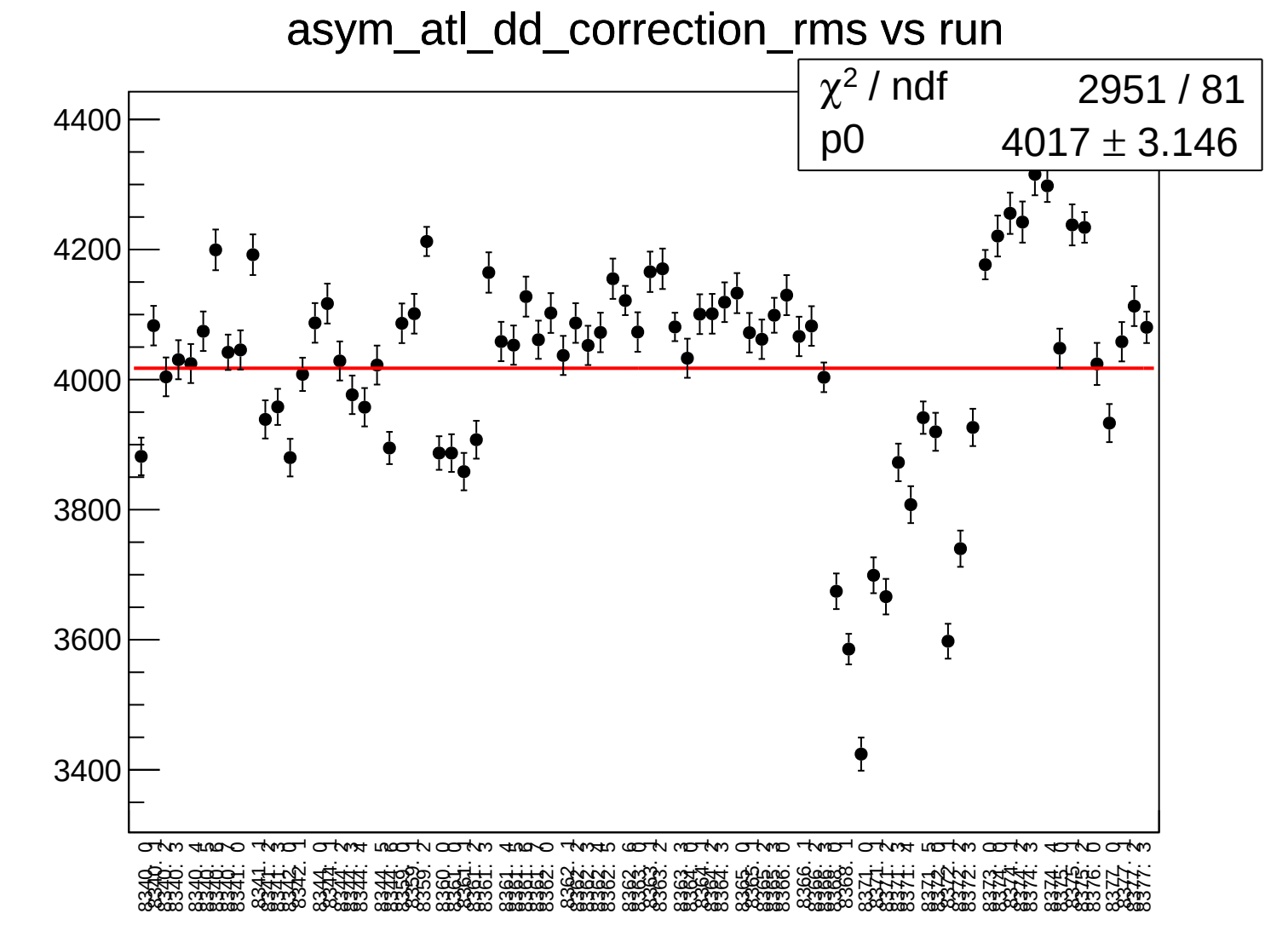

reg_asym_atl_dd_mean vs run
χ² / ndf 79.27 / 81
p0 −1141 ± 1840
pull
Entries 82
Mean 4641
Std Dev 4582

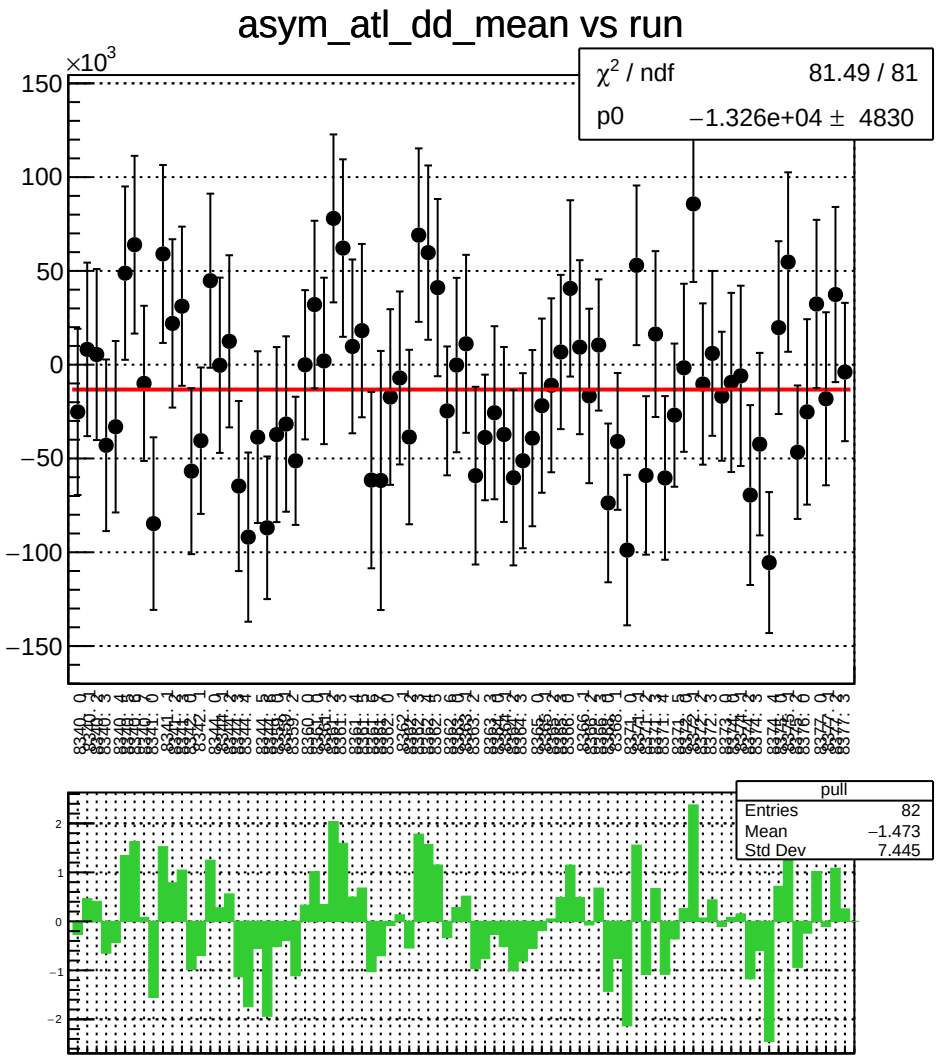

pull1D
Entries 82
Mean 0.0003713
Std Dev 0.9832

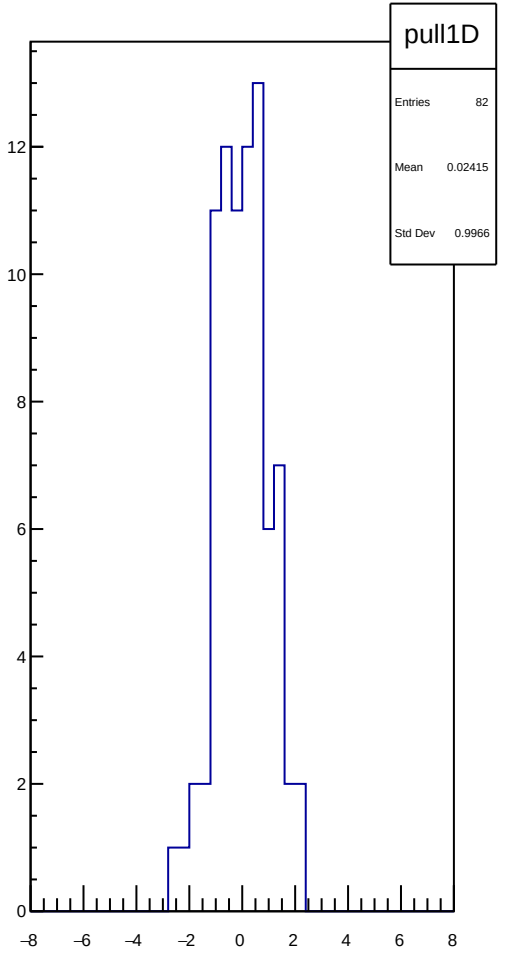

reg_asym_atl_dd_rms vs run
χ² / ndf 9757 / 81
p0 1658 ± 1.301
5500
5000
4500
4000
3500
3000
2500
2000
1500

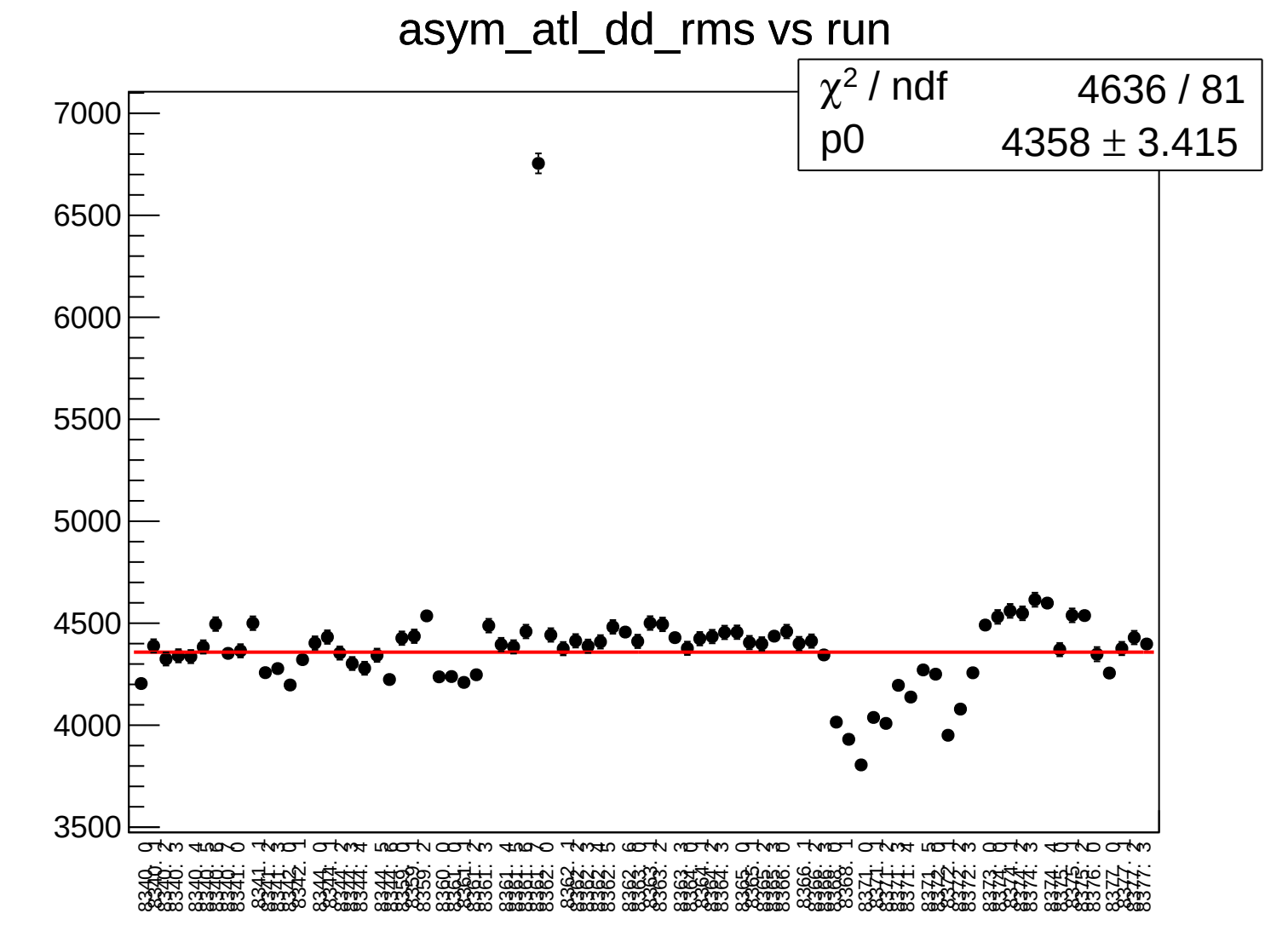

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 90.76 / 81
p0 1.238e+04 ± 4450
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −20.47
Std Dev 55.14
3
2
1
0
−1
−2

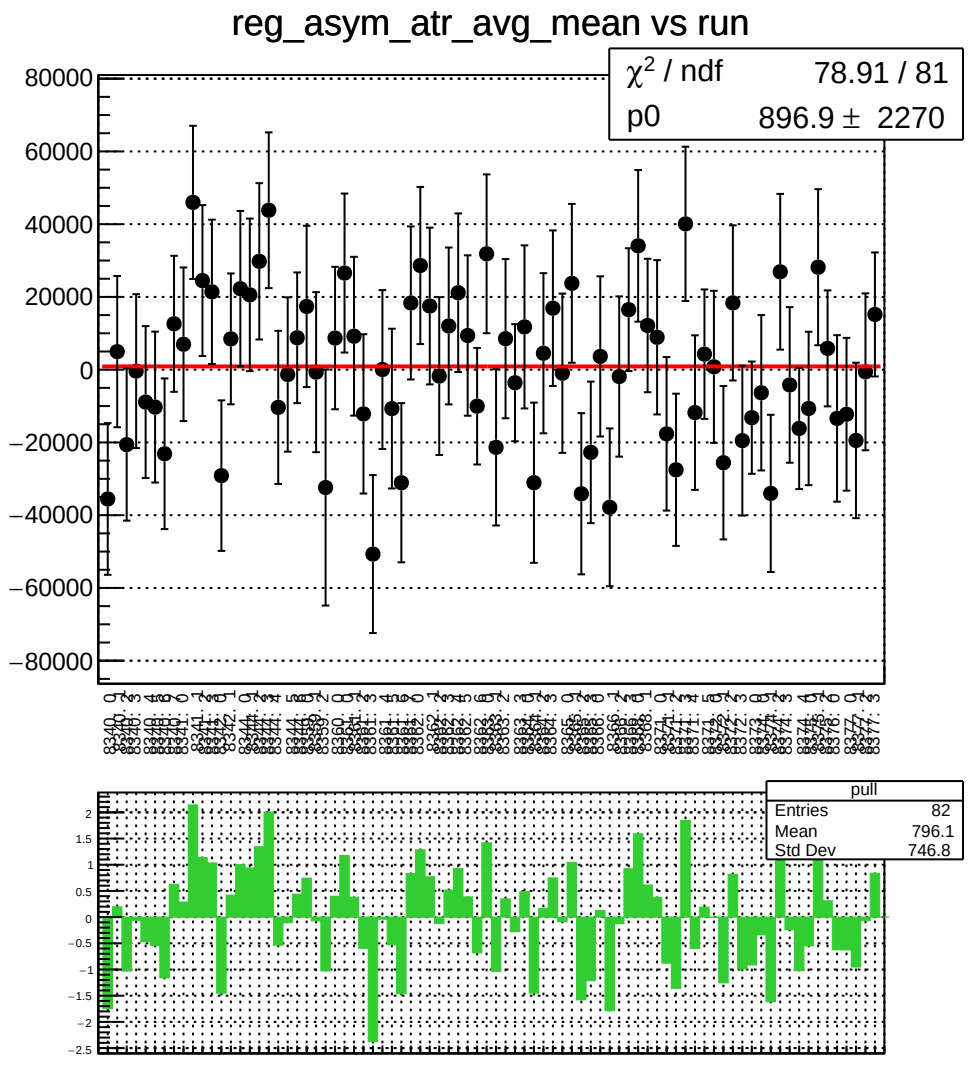

pull1D
Entries 82
Mean −0.03002
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

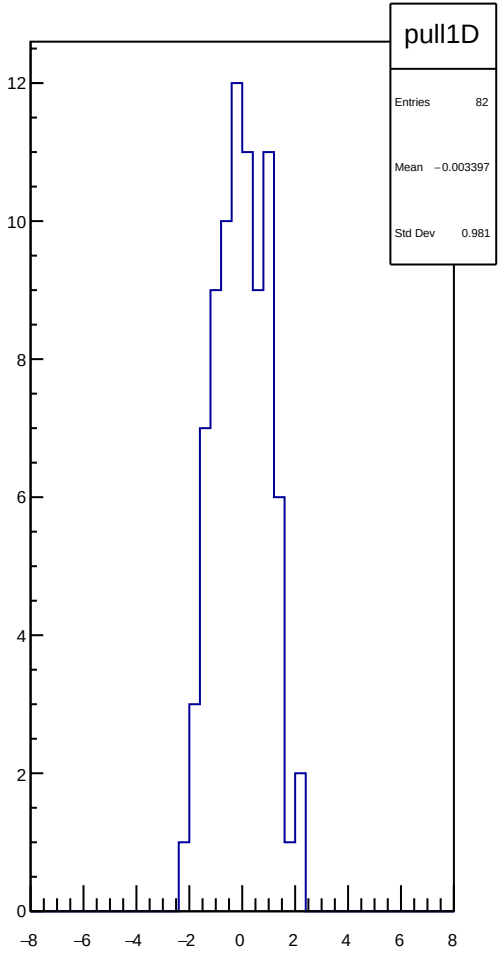

asym_atl_dd_correction_rms vs run
χ² / ndf 2951 / 81
p0 4017 ± 3.146
4400
4200
4000
3800
3600
3400

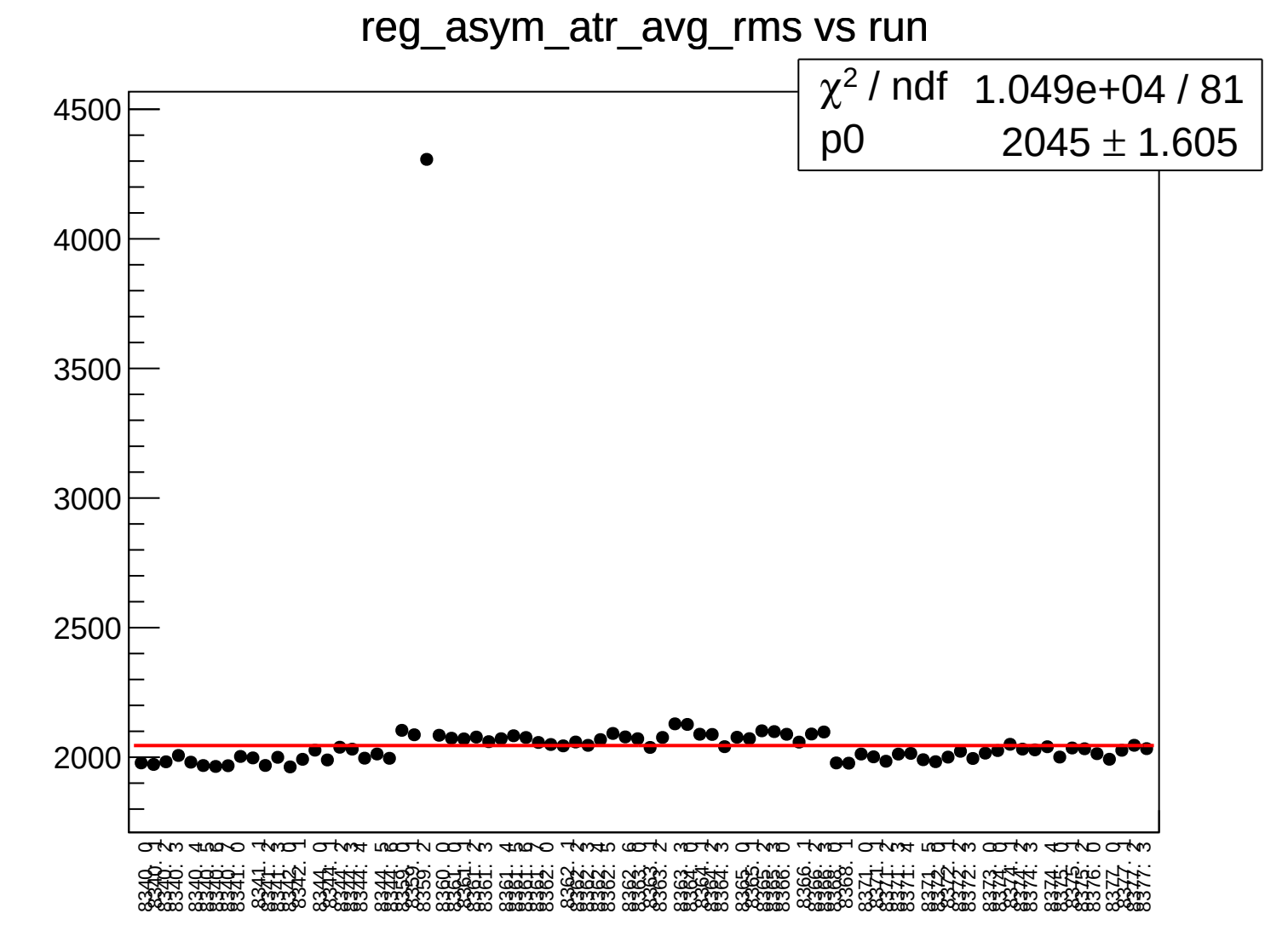

asym_atl_dd_mean vs run
×10^3
χ² / ndf 81.49 / 81
p0 −1.326e+04 ± 4830
pull
Entries 82
Mean −1.473
Std Dev 7.445

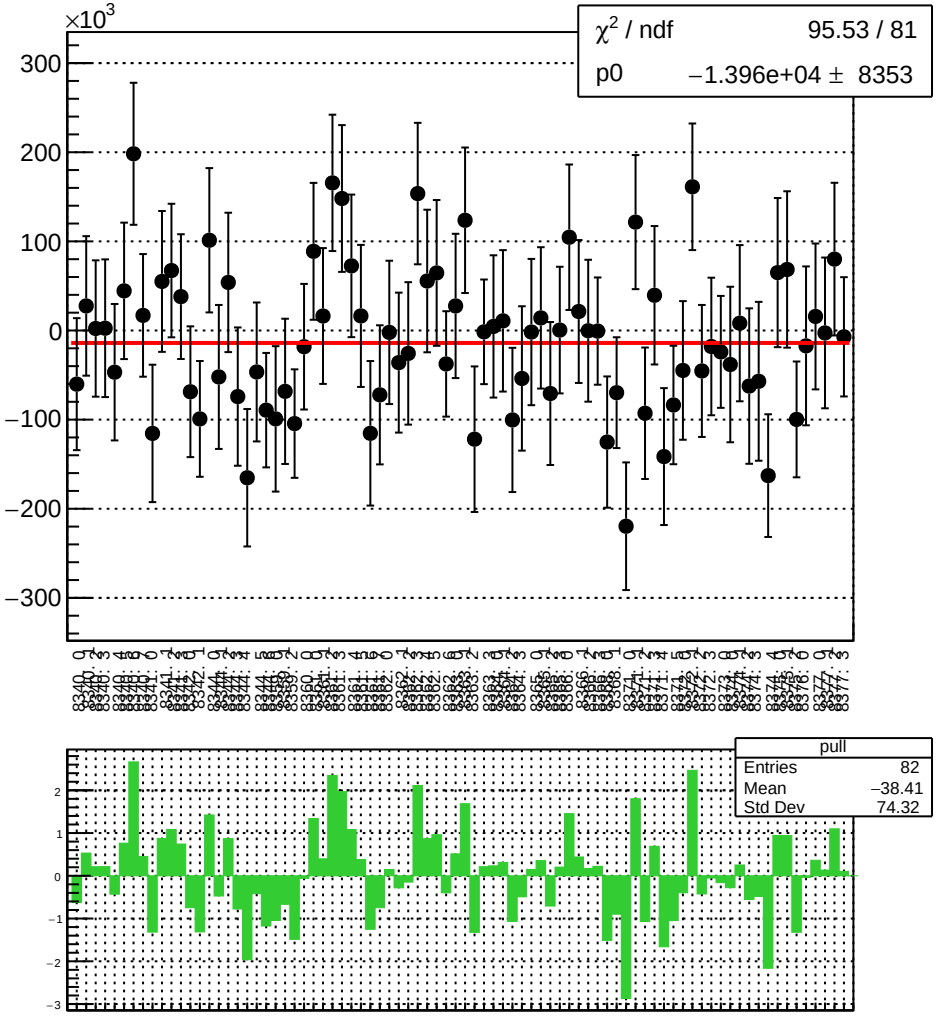

pull1D
Entries 82
Mean 0.02415
Std Dev 0.9966

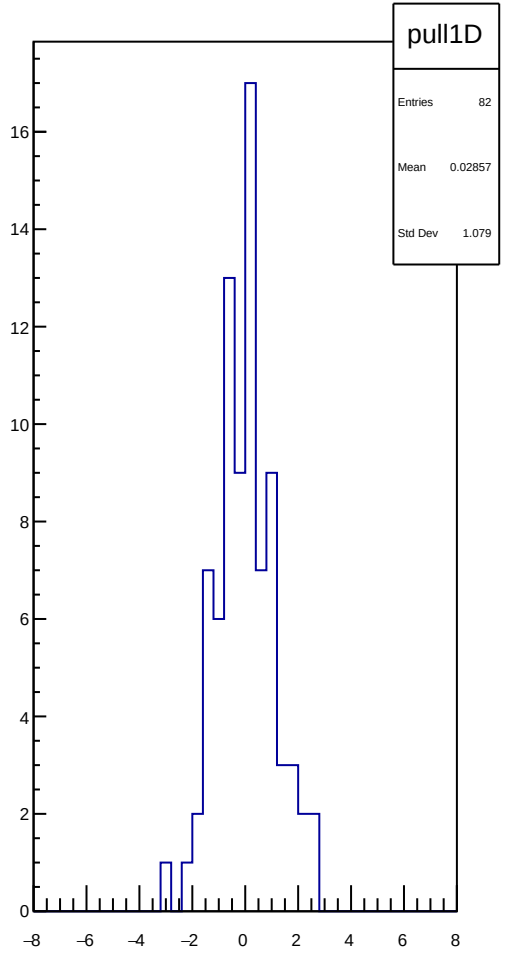

asym_atl_dd_rms vs run
χ² / ndf 4636 / 81
p0 4358 ± 3.415
7000
6500
6000
5500
5000
4500
4000
3500

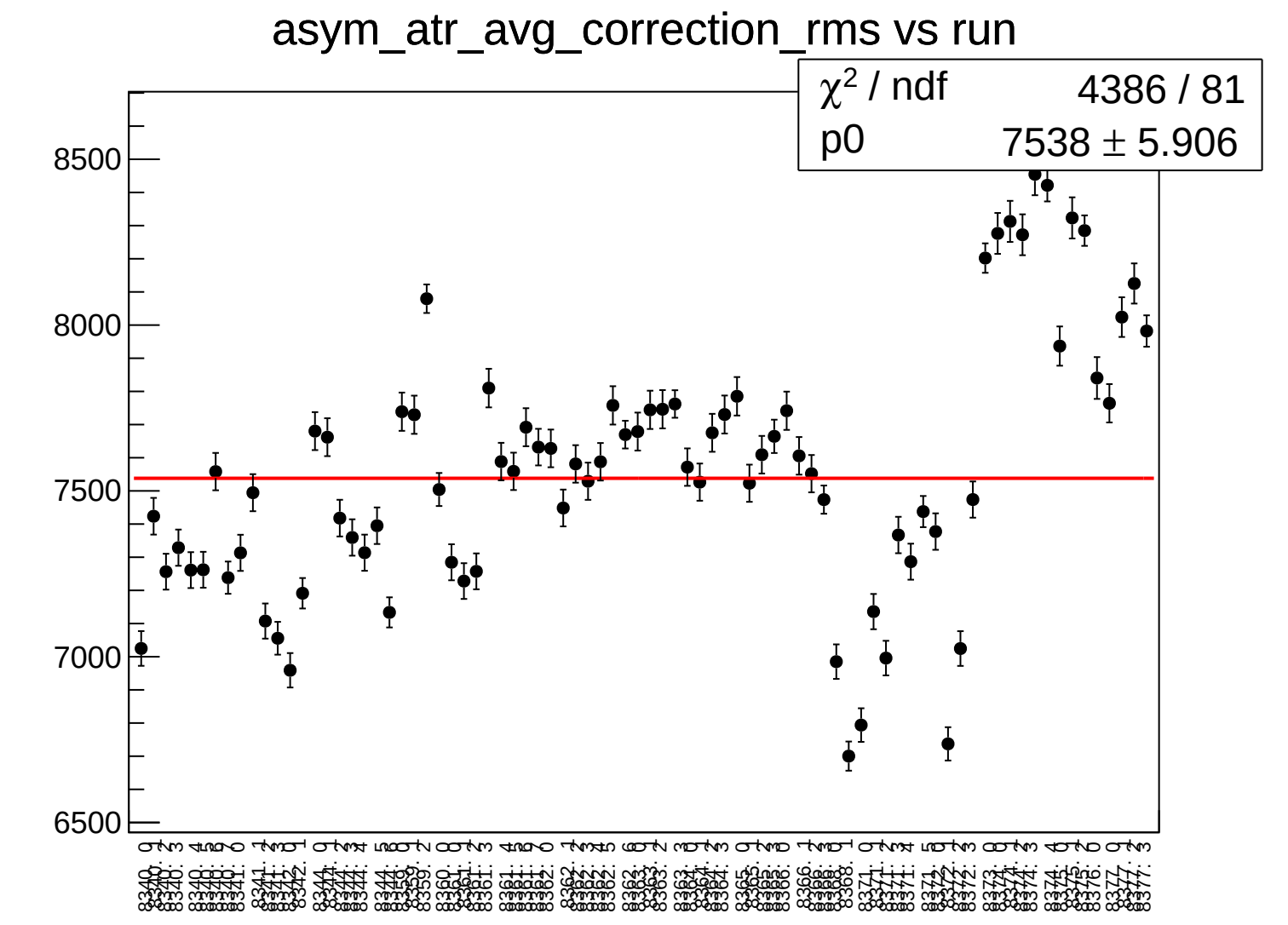

reg_asym_atr_avg_mean vs run
χ² / ndf 78.91 / 81
p0 896.9 ± 2270
pull
Entries 82
Mean 796.1
Std Dev 746.8

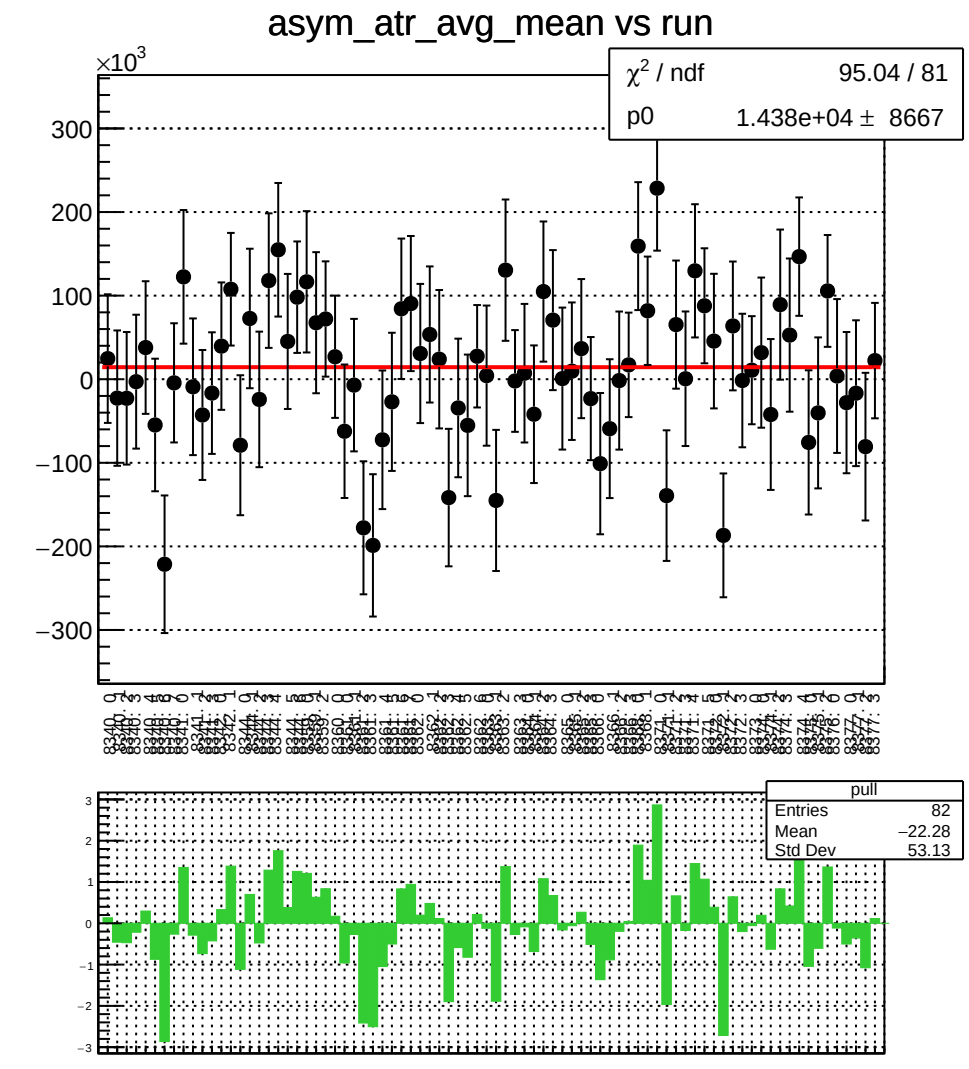

pull1D
Entries 82
Mean −0.003397
Std Dev 0.981

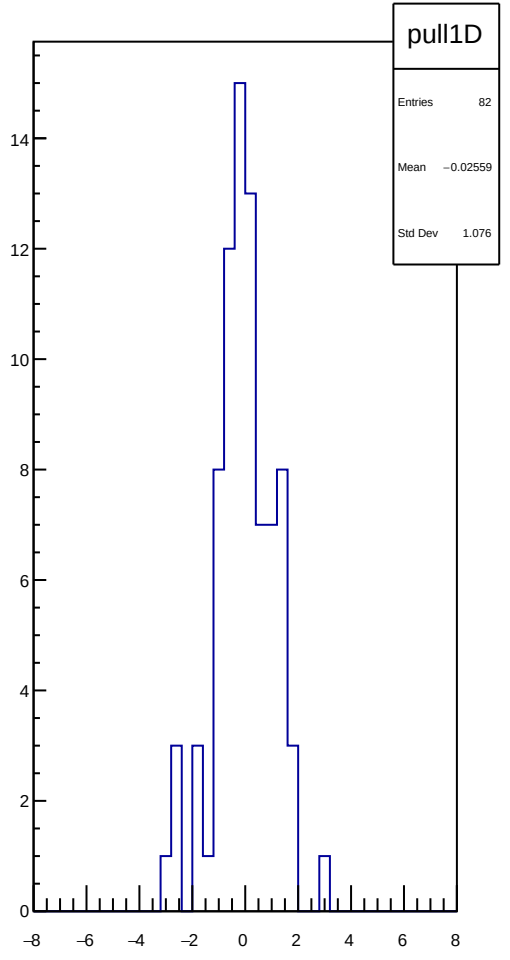

reg_asym_atr_avg_rms vs run
χ² / ndf 1.049e+04 / 81
p0 2045 ± 1.605
4500
4000
3500
3000
2500
2000

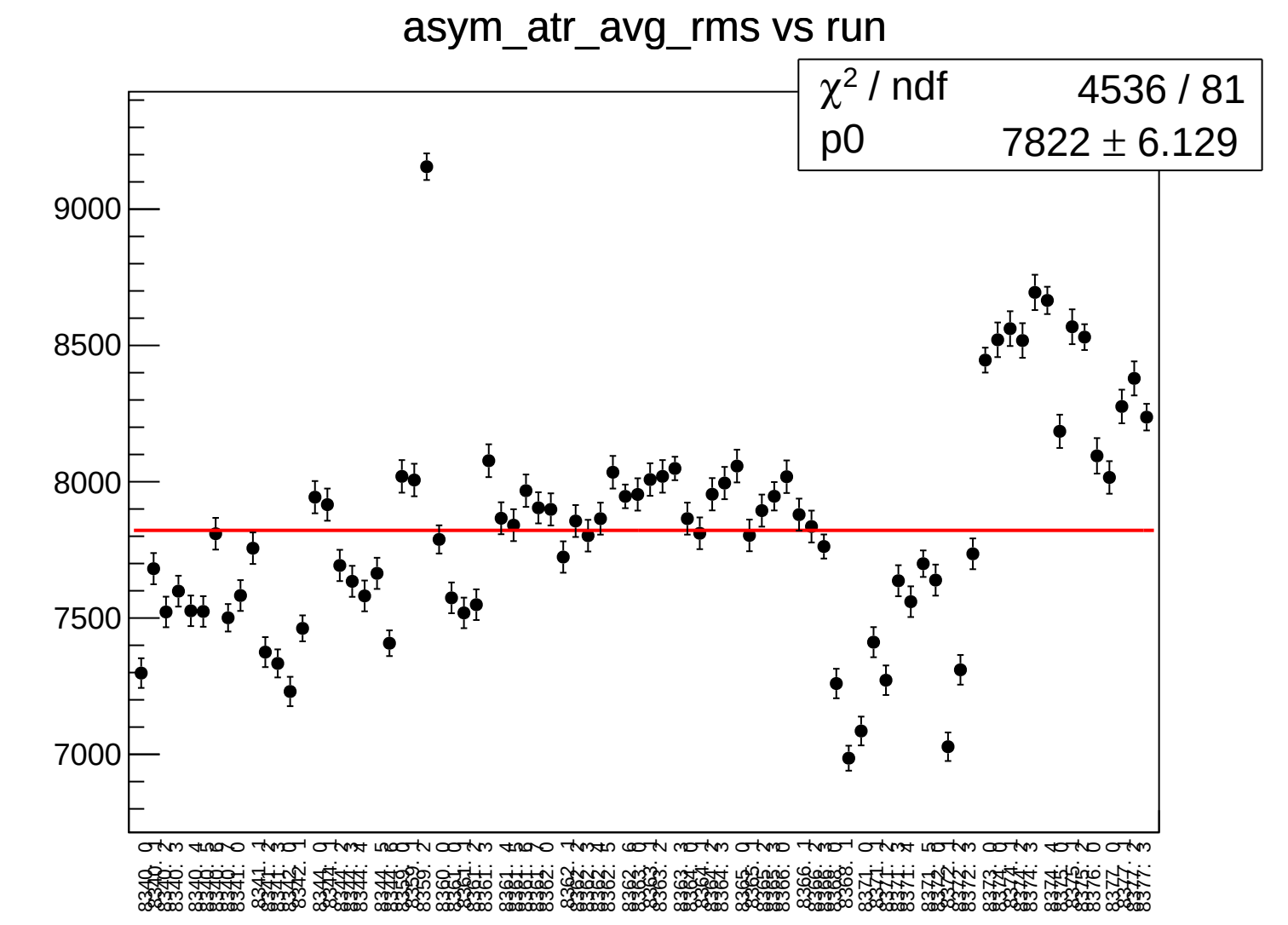

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 95.53 / 81
p0 −1.396e+04 ± 8353
pull
Entries 82
Mean −38.41
Std Dev 74.32

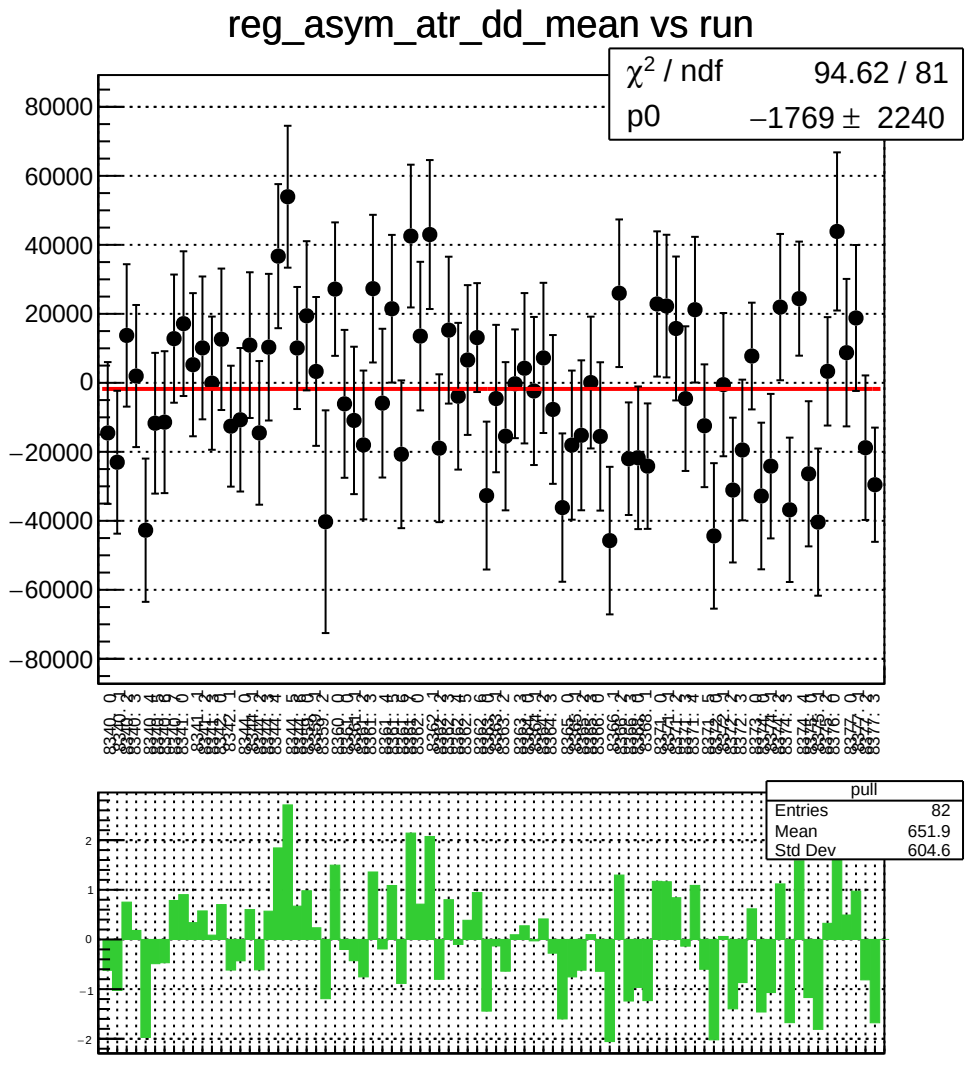

pull1D
Entries 82
Mean 0.02857
Std Dev 1.079

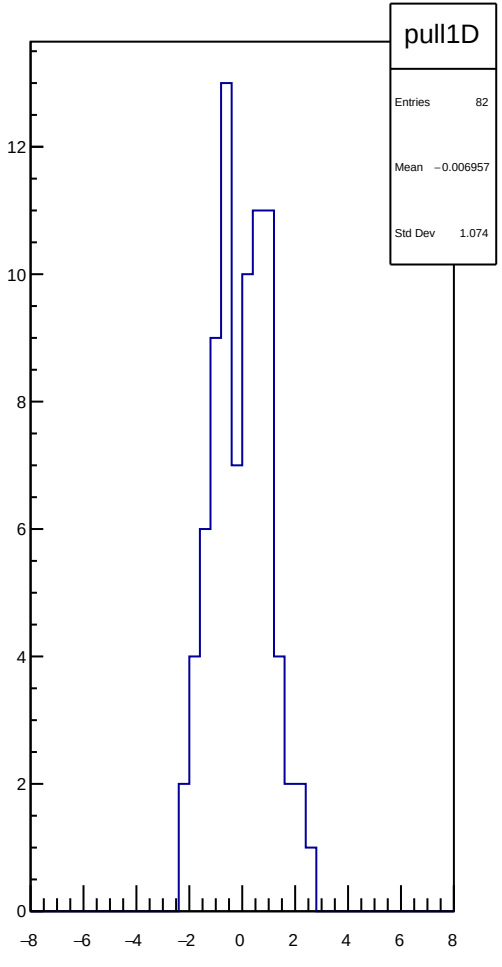

asym_atr_avg_correction_rms vs run
χ² / ndf 4386 / 81
p0 7538 ± 5.906
8500
8000
7500
7000
6500

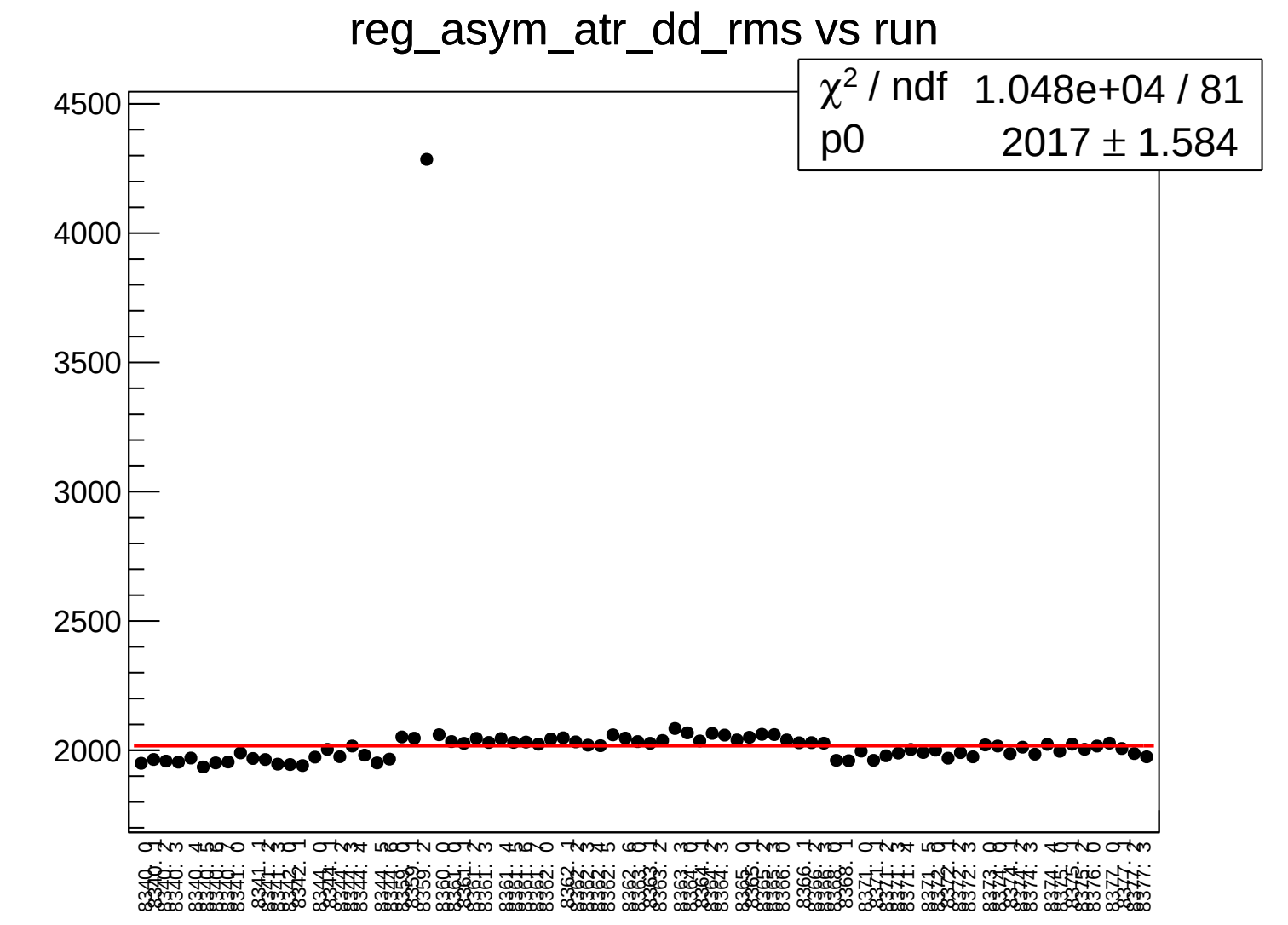

asym_atr_avg_mean vs run
×10^3
χ² / ndf 95.04 / 81
p0 1.438e+04 ± 8667
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −22.28
Std Dev 53.13
3
2
1
0
−1
−2
−3

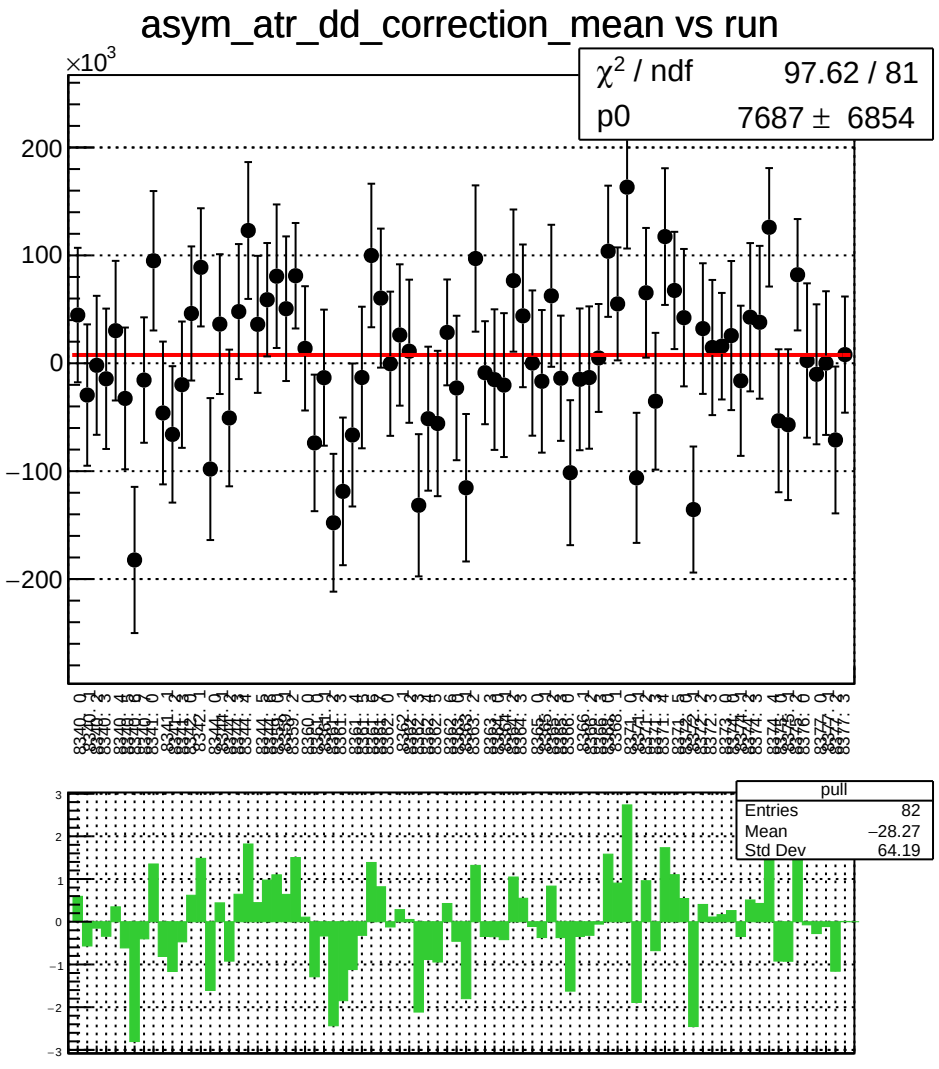

pull1D
Entries 82
Mean −0.02559
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

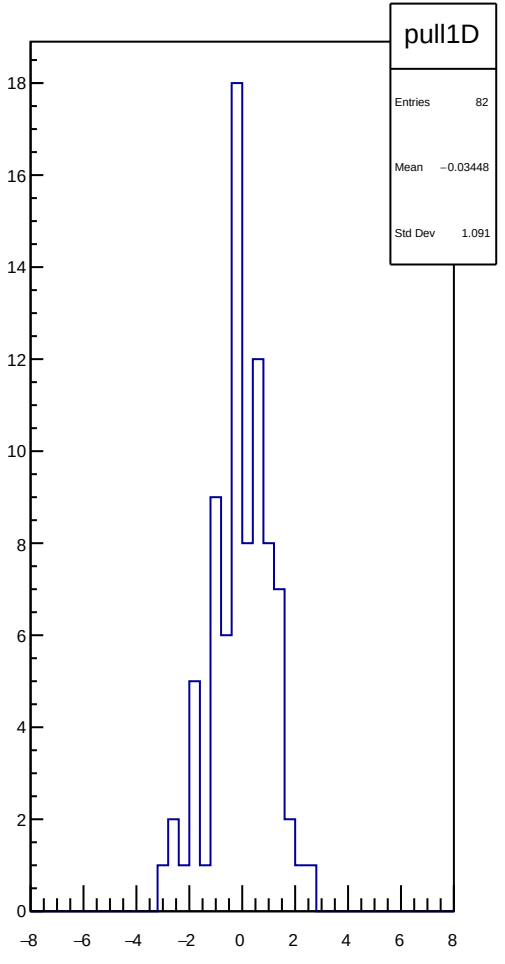

asym_atr_avg_rms vs run
χ² / ndf 4536 / 81
p0 7822 ± 6.129
9000
8500
8000
7500
7000

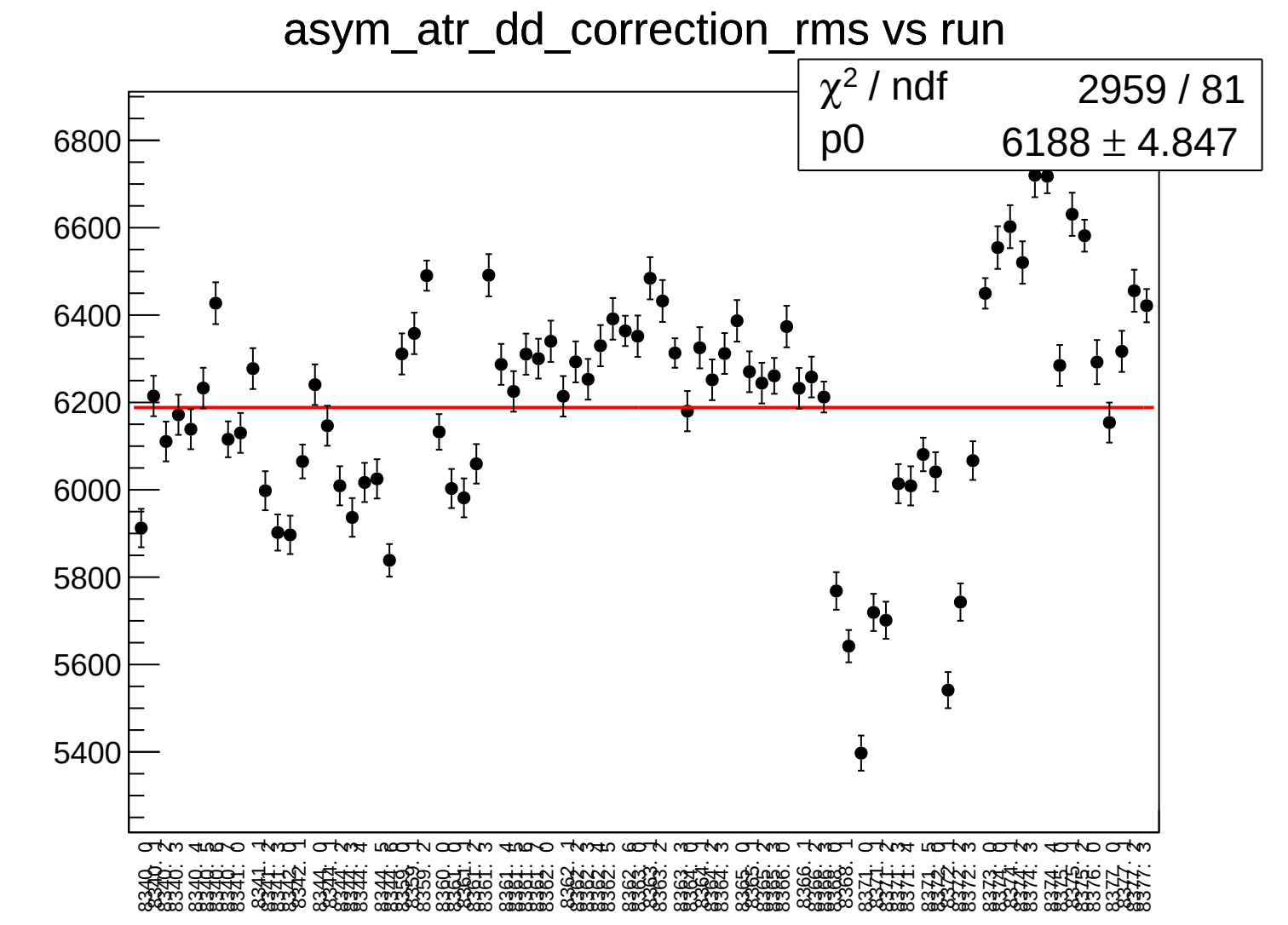

reg_asym_atr_dd_mean vs run
χ² / ndf 94.62 / 81
p0 −1769 ± 2240
pull
Entries 82
Mean 651.9
Std Dev 604.6

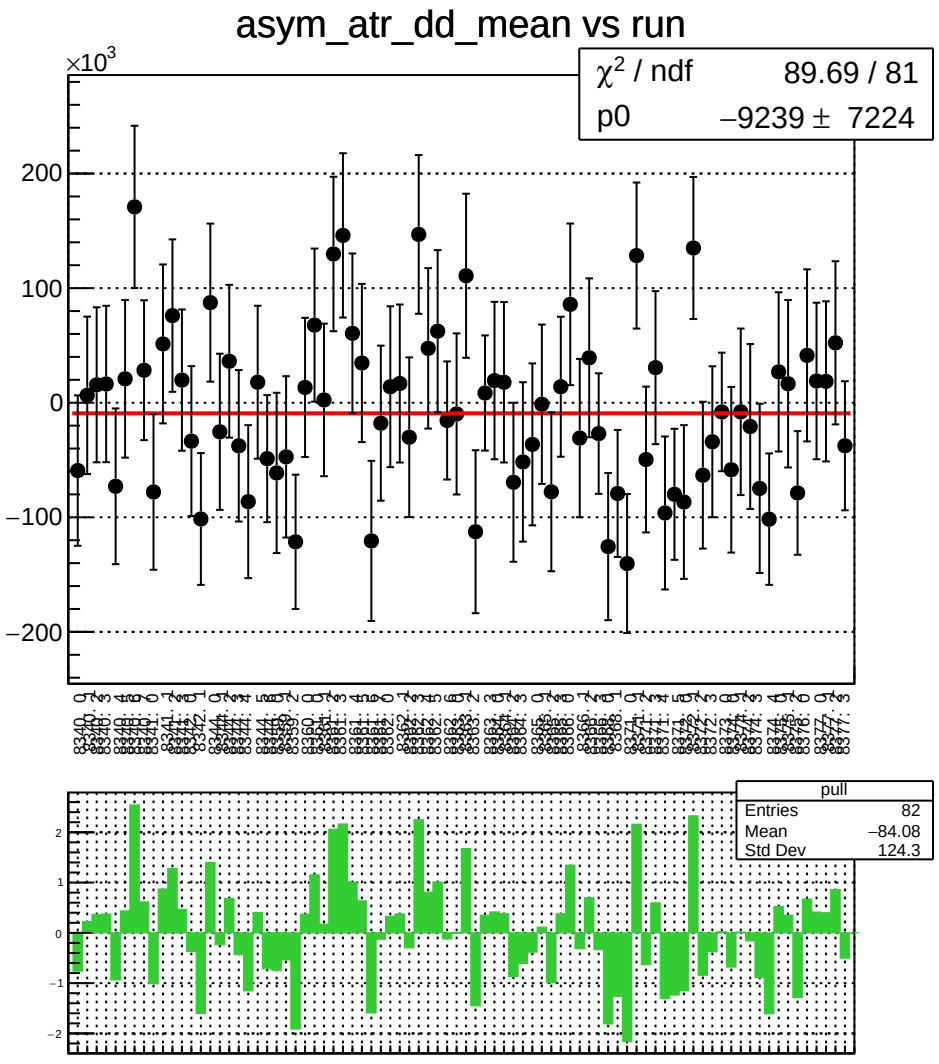

pull1D
Entries 82
Mean −0.006957
Std Dev 1.074

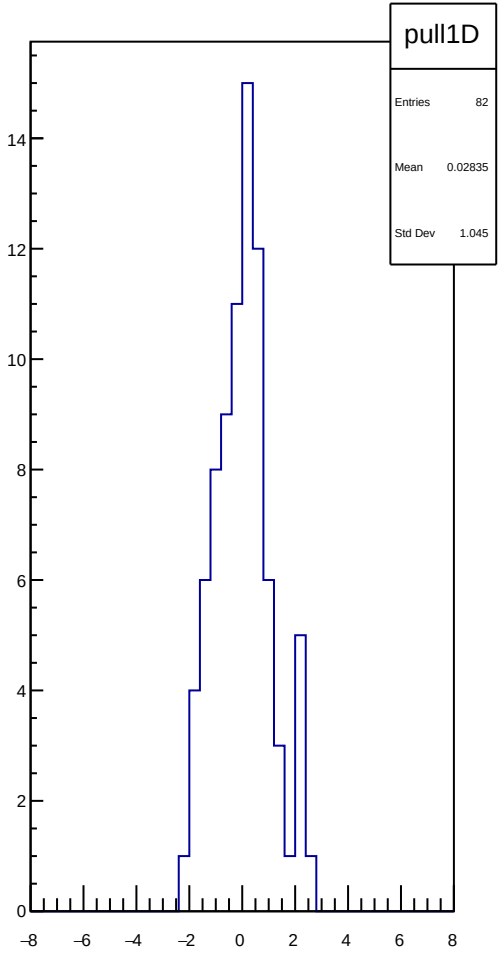

reg_asym_atr_dd_rms vs run
χ² / ndf 1.048e+04 / 81
p0 2017 ± 1.584
4500
4000
3500
3000
2500
2000

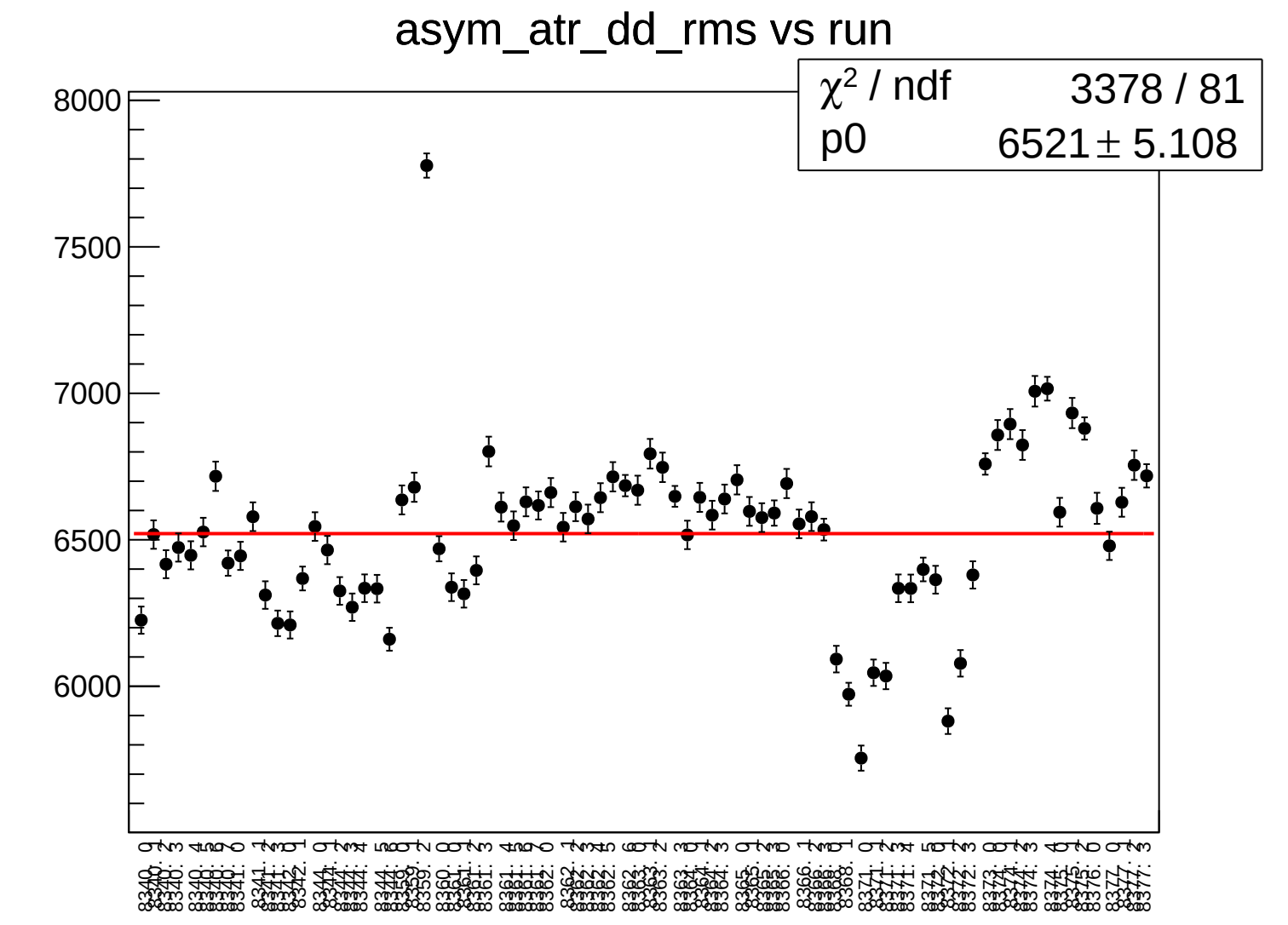

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 97.62 / 81
p0 7687 ± 6854
200
100
0
−100
−200
pull
Entries 82
Mean −28.27
Std Dev 64.19
3
2
1
0
−1
−2
−3

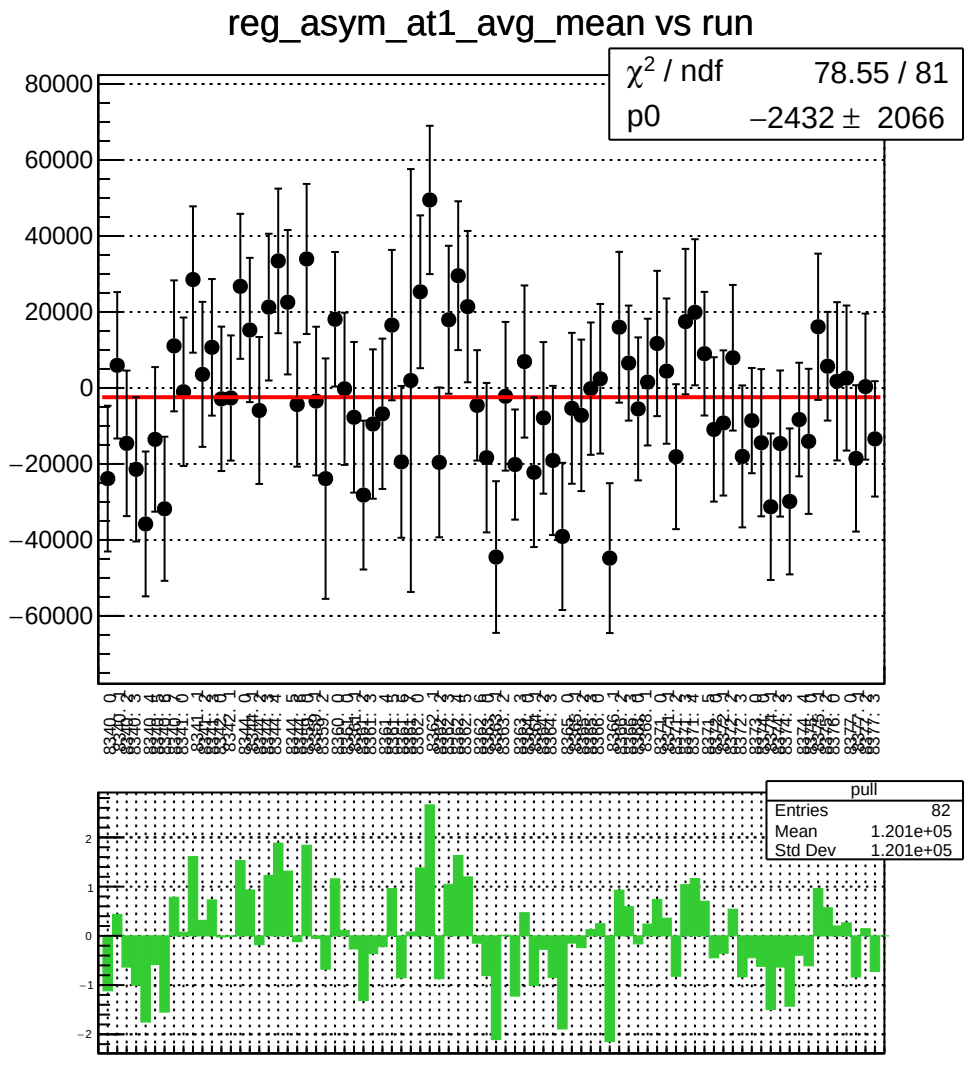

pull1D
Entries 82
Mean −0.03448
Std Dev 1.091
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

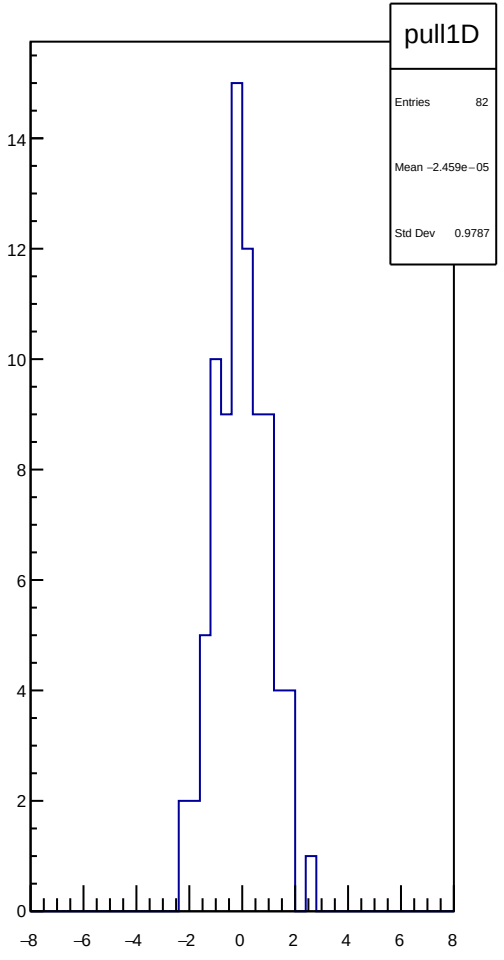

asym_atr_dd_correction_rms vs run
χ² / ndf 2959 / 81
p0 6188 ± 4.847
6800
6600
6400
6200
6000
5800
5600
5400

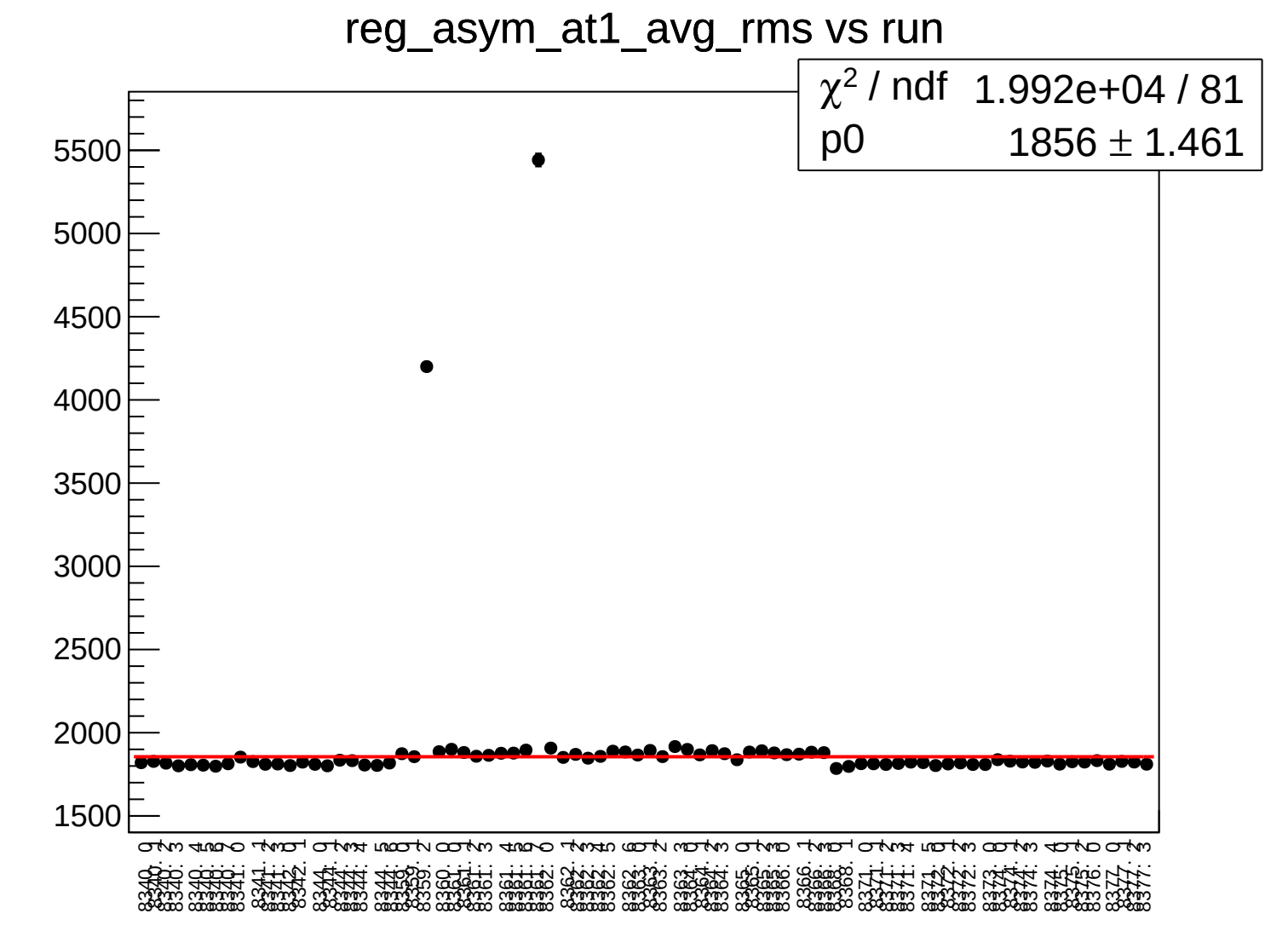

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 89.69 / 81
p0 −9239 ± 7224
200
100
0
−100
−200
pull
Entries 82
Mean −84.08
Std Dev 124.3
2
1
0
−1
−2

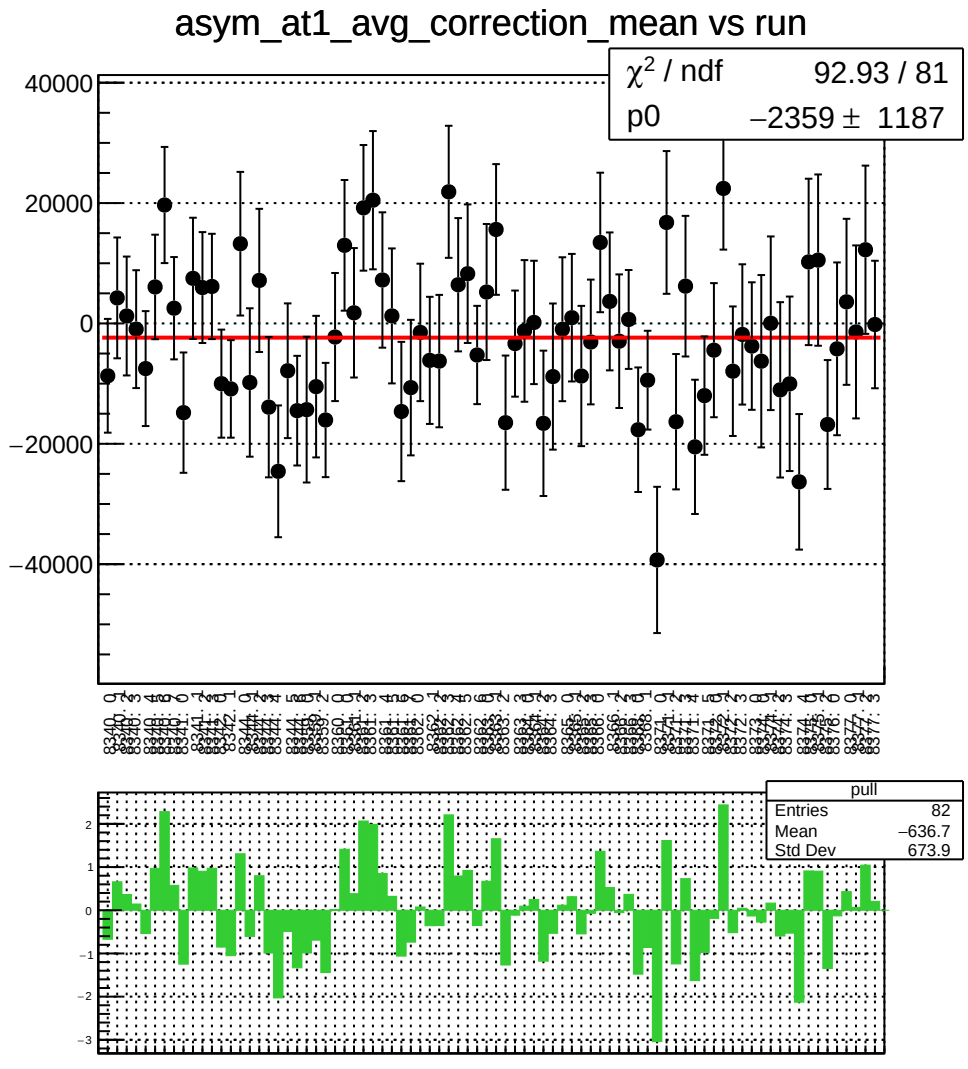

pull1D
Entries 82
Mean 0.02835
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

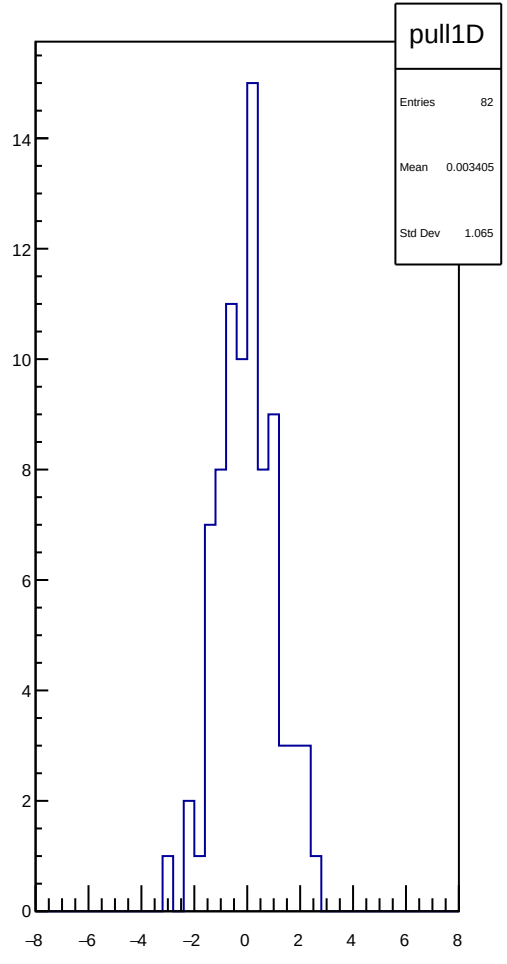

asym_atr_dd_rms vs run
χ² / ndf 3378 / 81
p0 6521 ± 5.108
8000
7500
7000
6500
6000

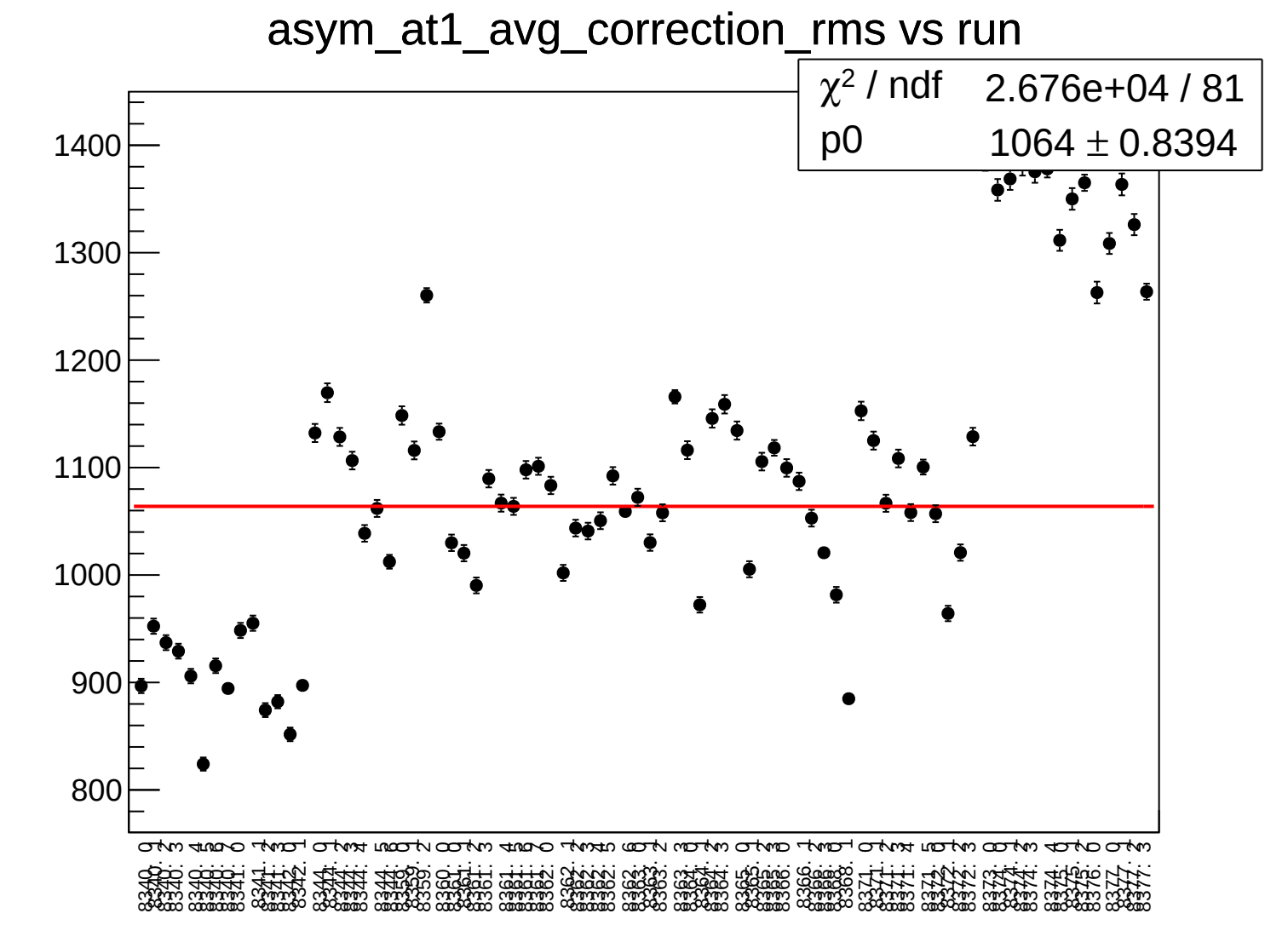

reg_asym_at1_avg_mean vs run
χ² / ndf 78.55 / 81
p0 −2432 ± 2066
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 1.201e+05
Std Dev 1.201e+05
2
1
0
−1
−2

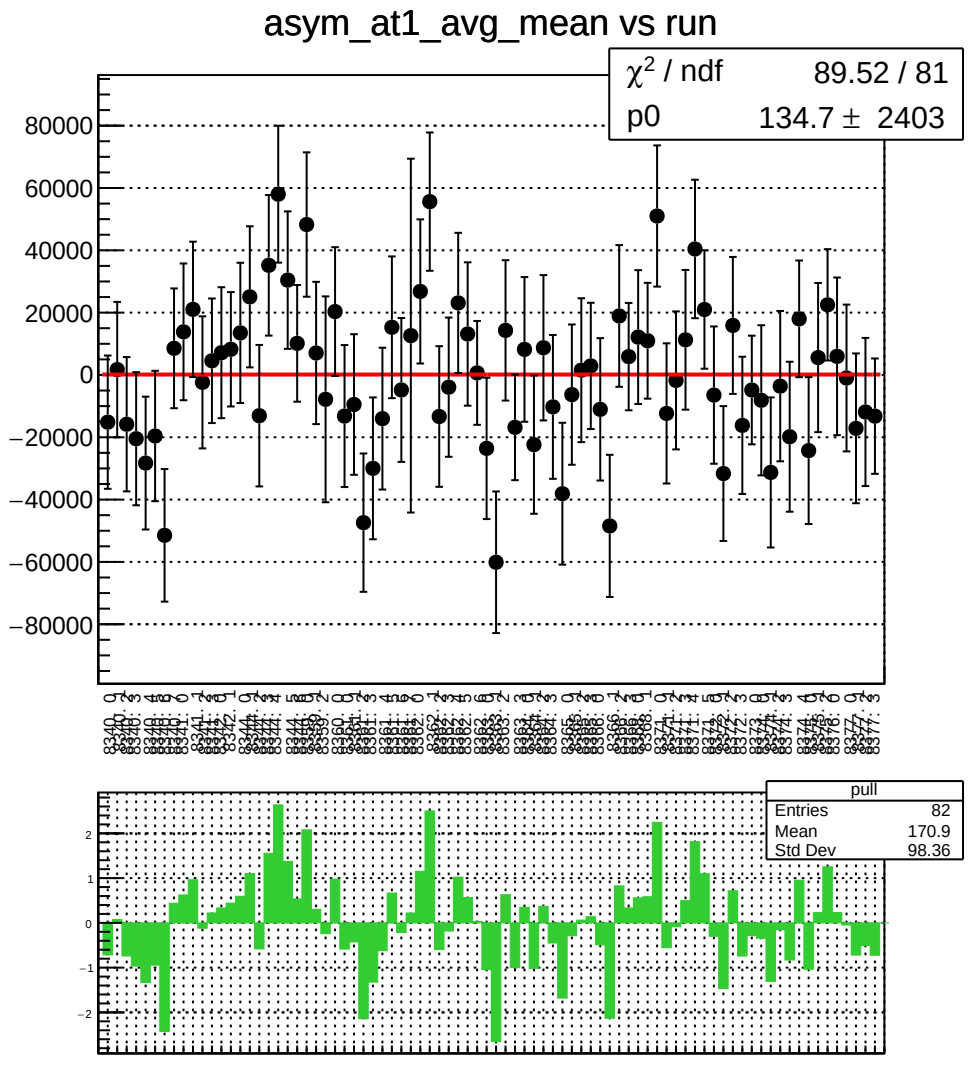

pull1D
Entries 82
Mean −2.459e−05
Std Dev 0.9787
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

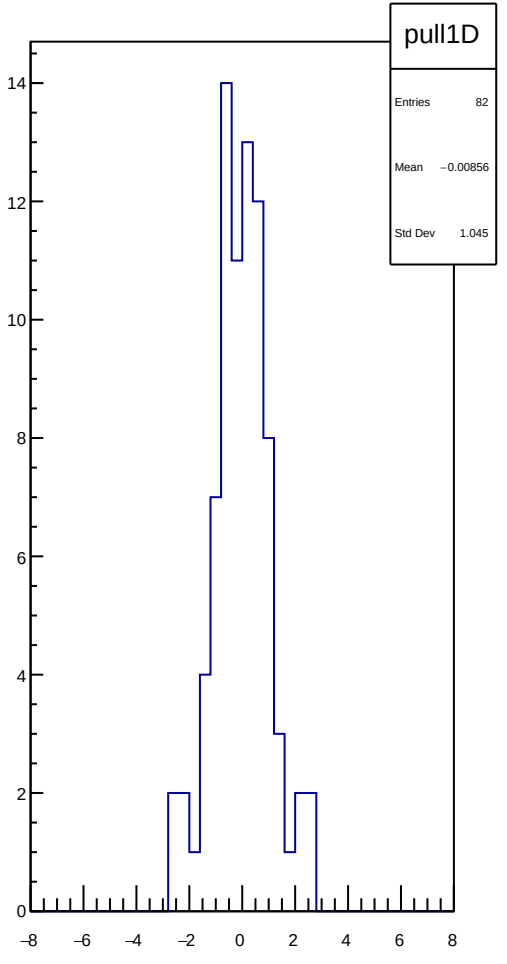

reg_asym_at1_avg_rms vs run
χ² / ndf 1.992e+04 / 81
p0 1856 ± 1.461
5500
5000
4500
4000
3500
3000
2500
2000
1500

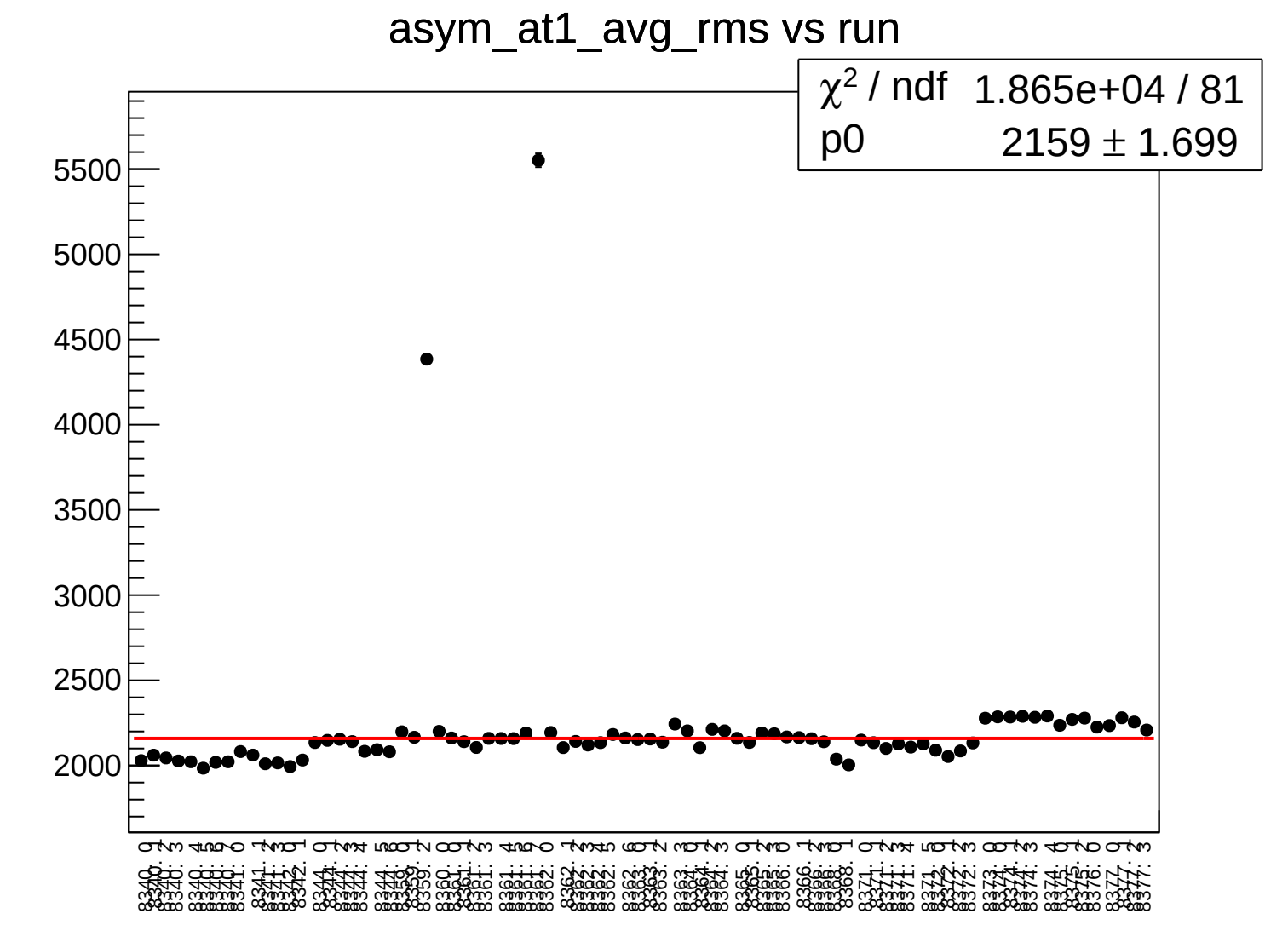

asym_at1_avg_correction_mean vs run
χ² / ndf 92.93 / 81
p0 −2359 ± 1187
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −636.7
Std Dev 673.9
2
1
0
−1
−2
−3

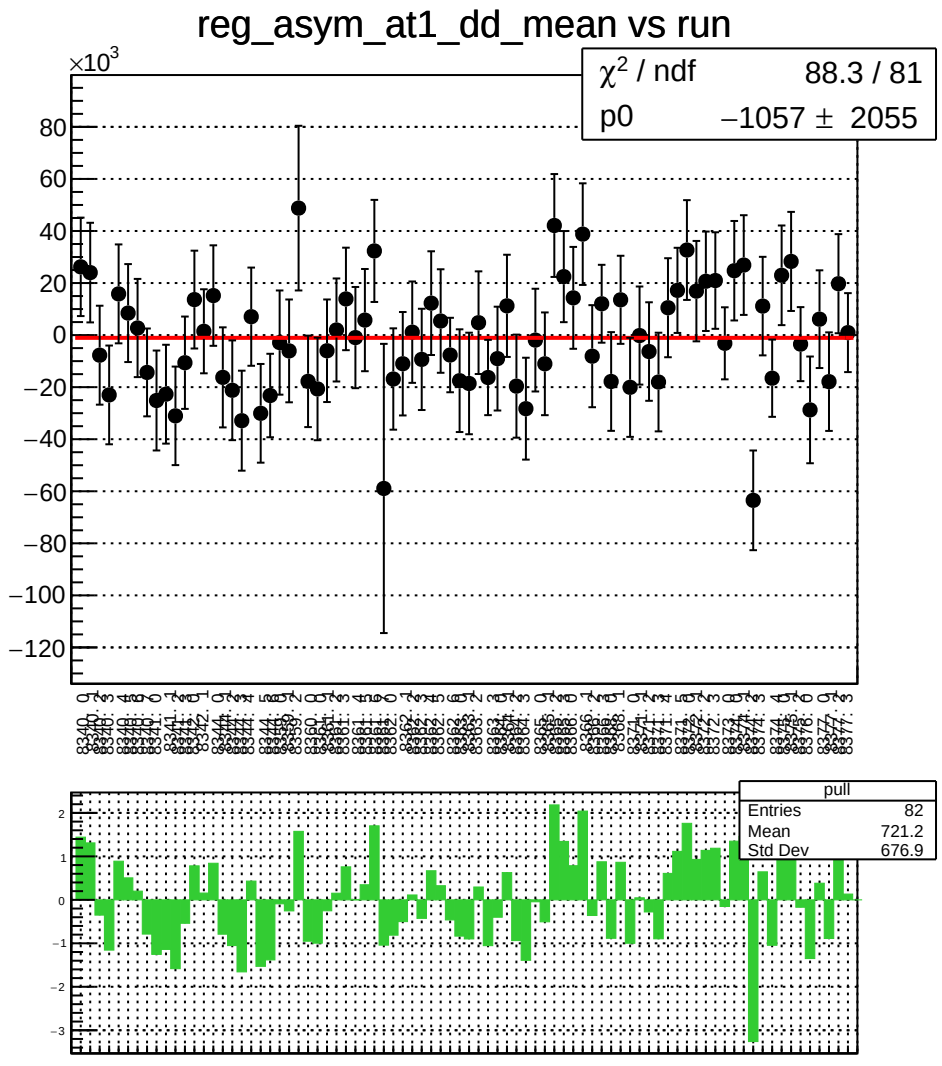

pull1D
Entries 82
Mean 0.003405
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

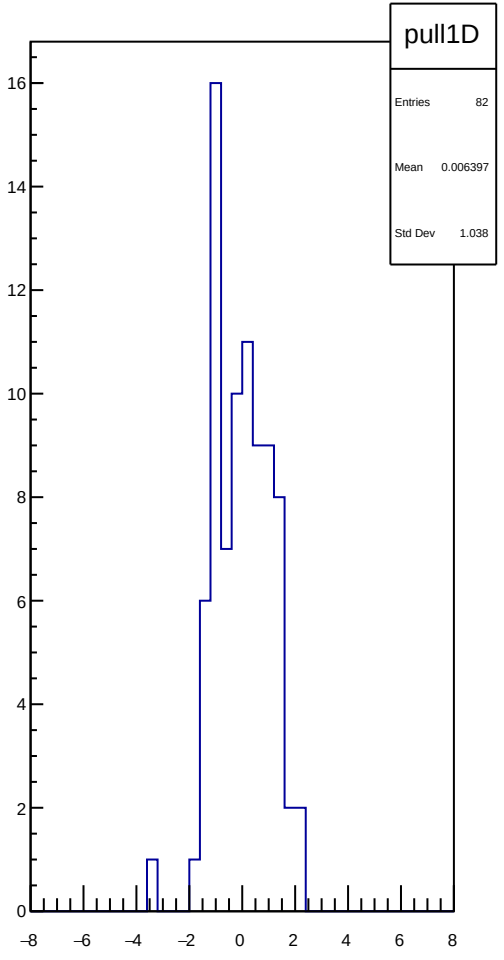

asym_at1_avg_correction_rms vs run
χ² / ndf 2.676e+04 / 81
p0 1064 ± 0.8394
1400
1300
1200
1100
1000
900
800

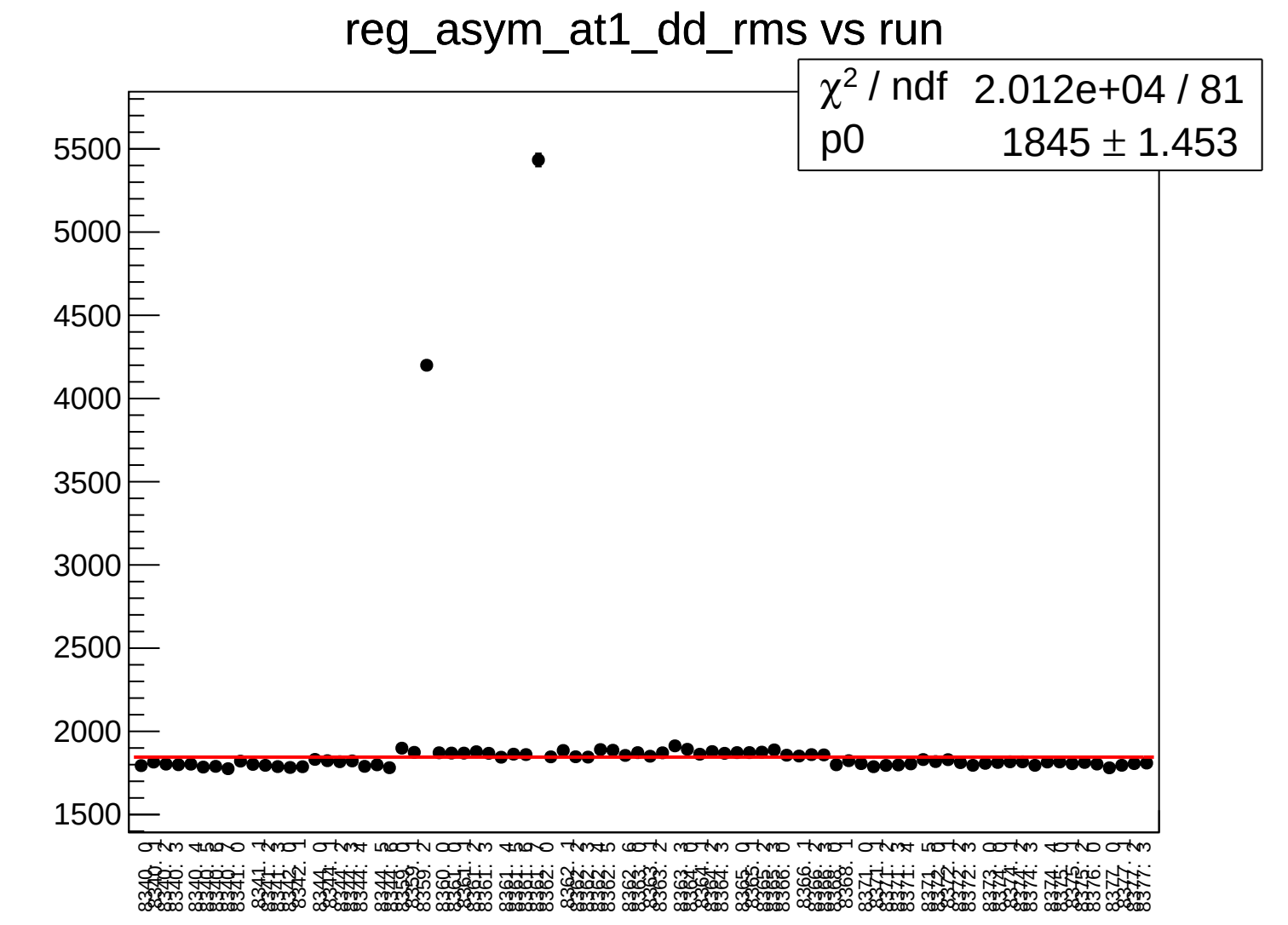

asym_at1_avg_mean vs run
χ² / ndf 89.52 / 81
p0 134.7 ± 2403
pull
Entries 82
Mean 170.9
Std Dev 98.36

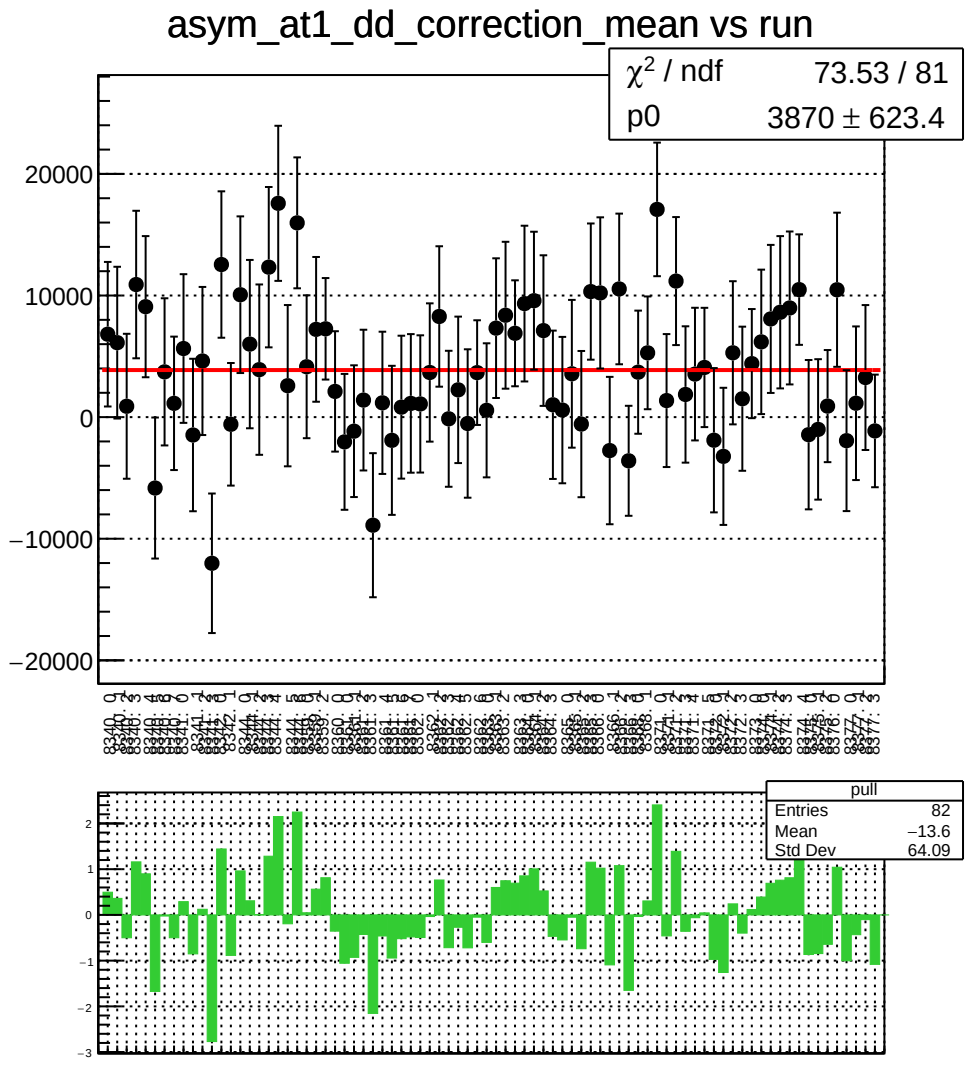

pull1D
Entries 82
Mean −0.00856
Std Dev 1.045

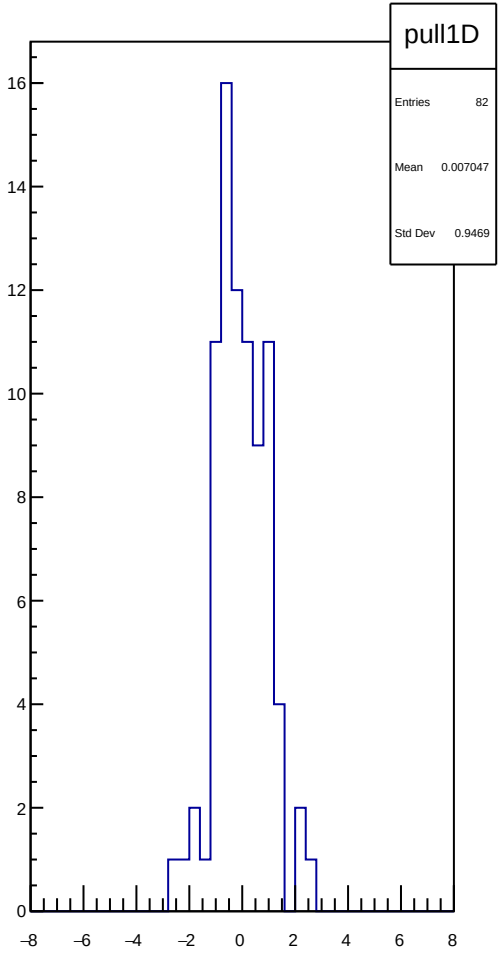

asym_at1_avg_rms vs run
χ² / ndf 1.865e+04 / 81
p0 2159 ± 1.699
5500
5000
4500
4000
3500
3000
2500
2000

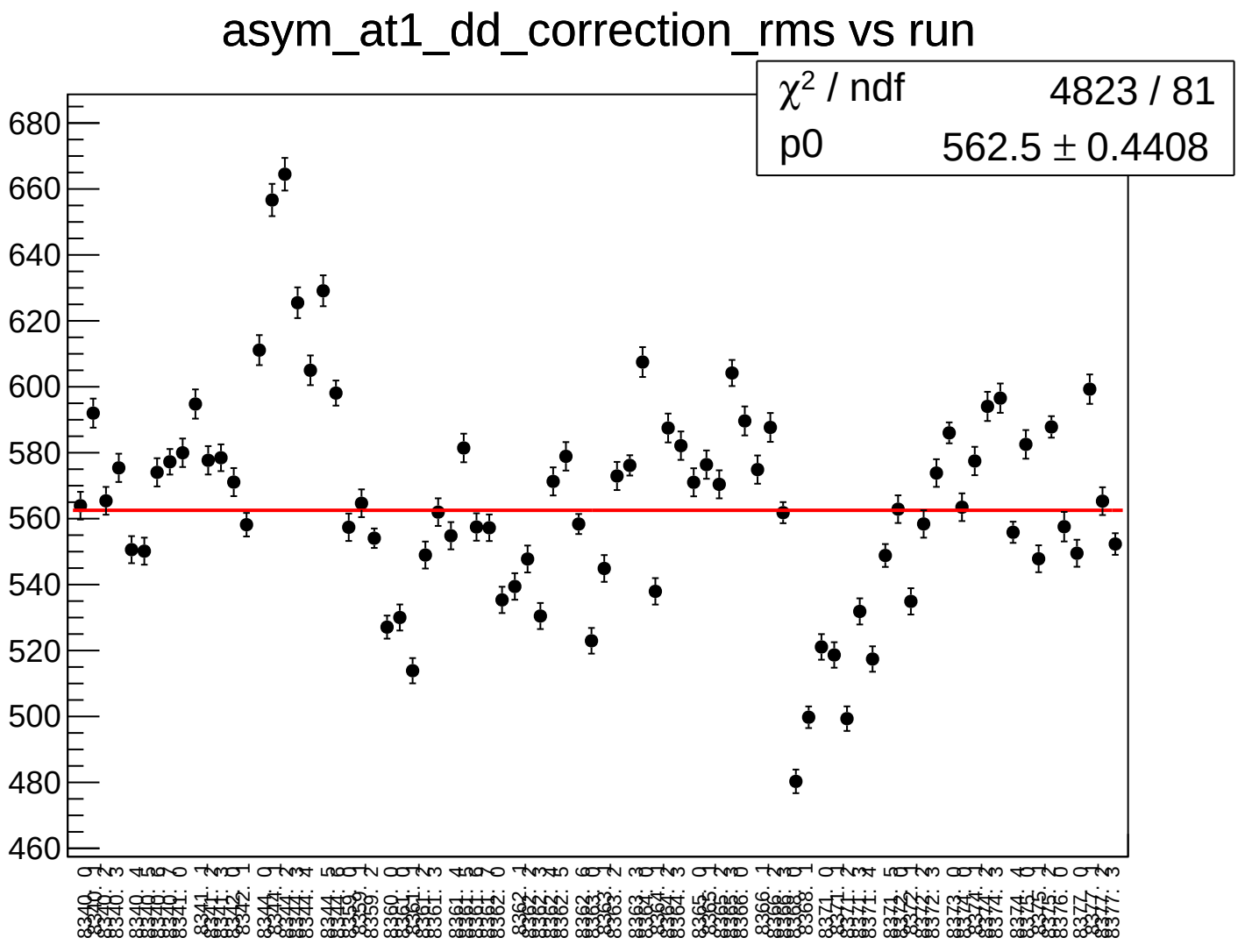

reg_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 88.3 / 81
p0 −1057 ± 2055
pull
Entries 82
Mean 721.2
Std Dev 676.9

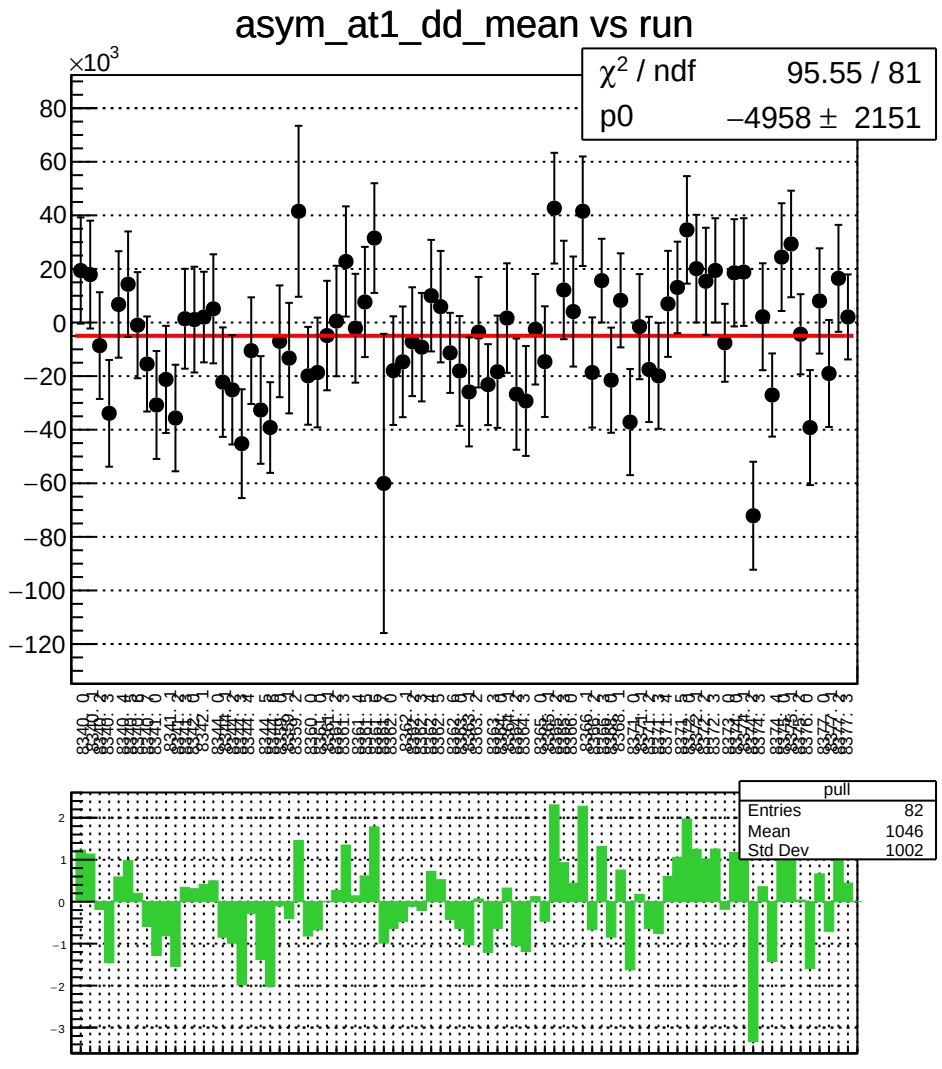

pull1D
Entries 82
Mean 0.006397
Std Dev 1.038

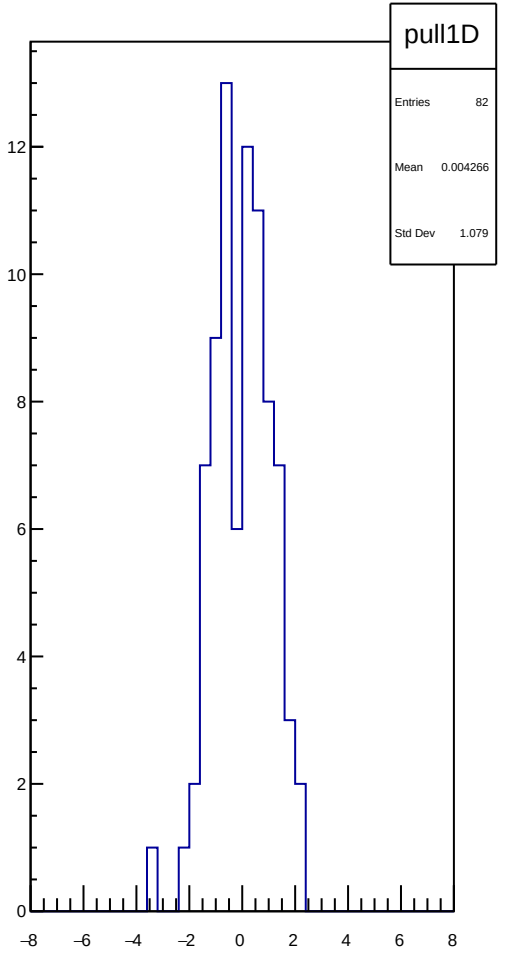

reg_asym_at1_dd_rms vs run
χ² / ndf 2.012e+04 / 81
p0 1845 ± 1.453
5500
5000
4500
4000
3500
3000
2500
2000
1500

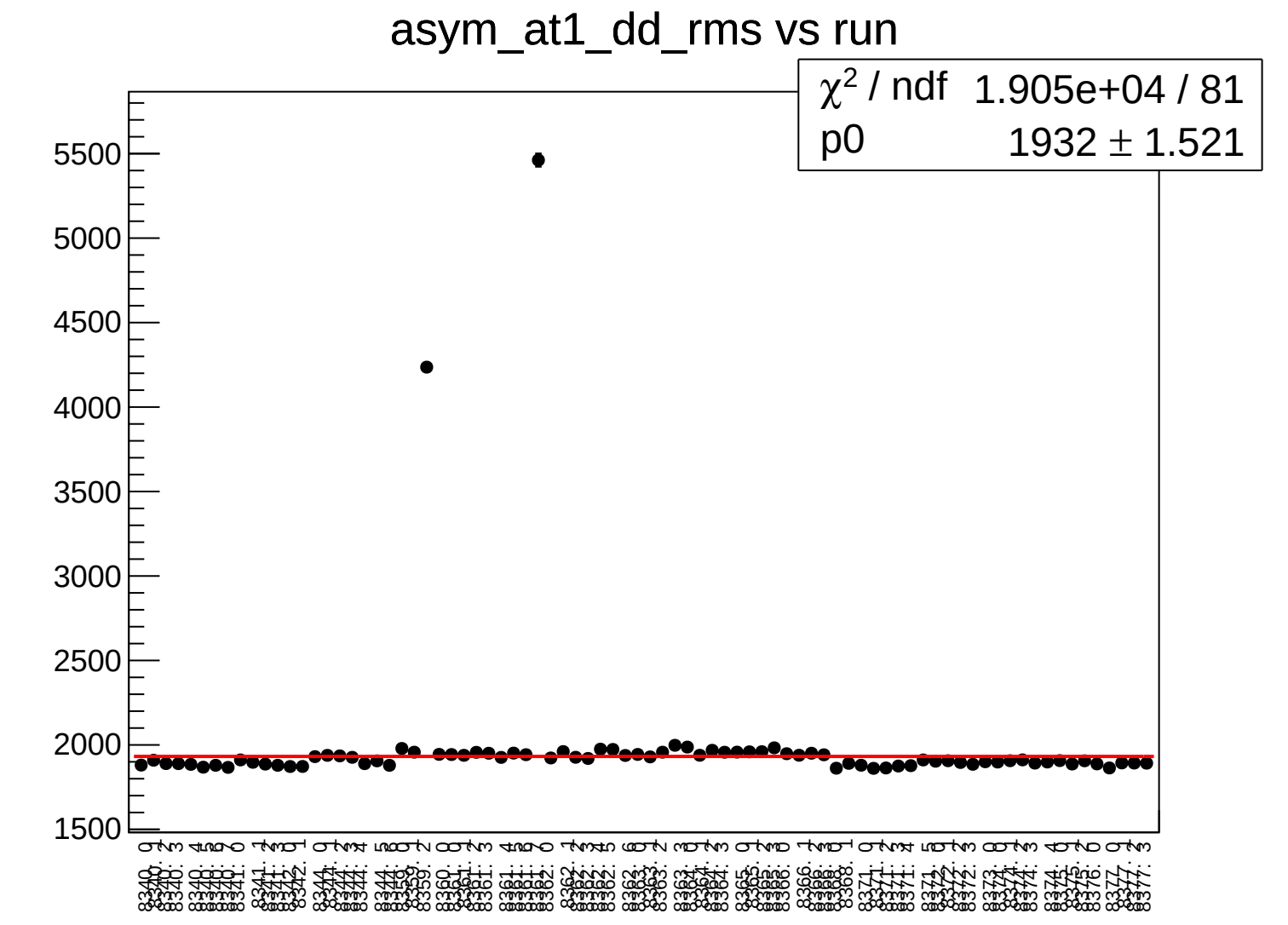

asym_at1_dd_correction_mean vs run
χ² / ndf 73.53 / 81
p0 3870 ± 623.4
pull
Entries 82
Mean −13.6
Std Dev 64.09

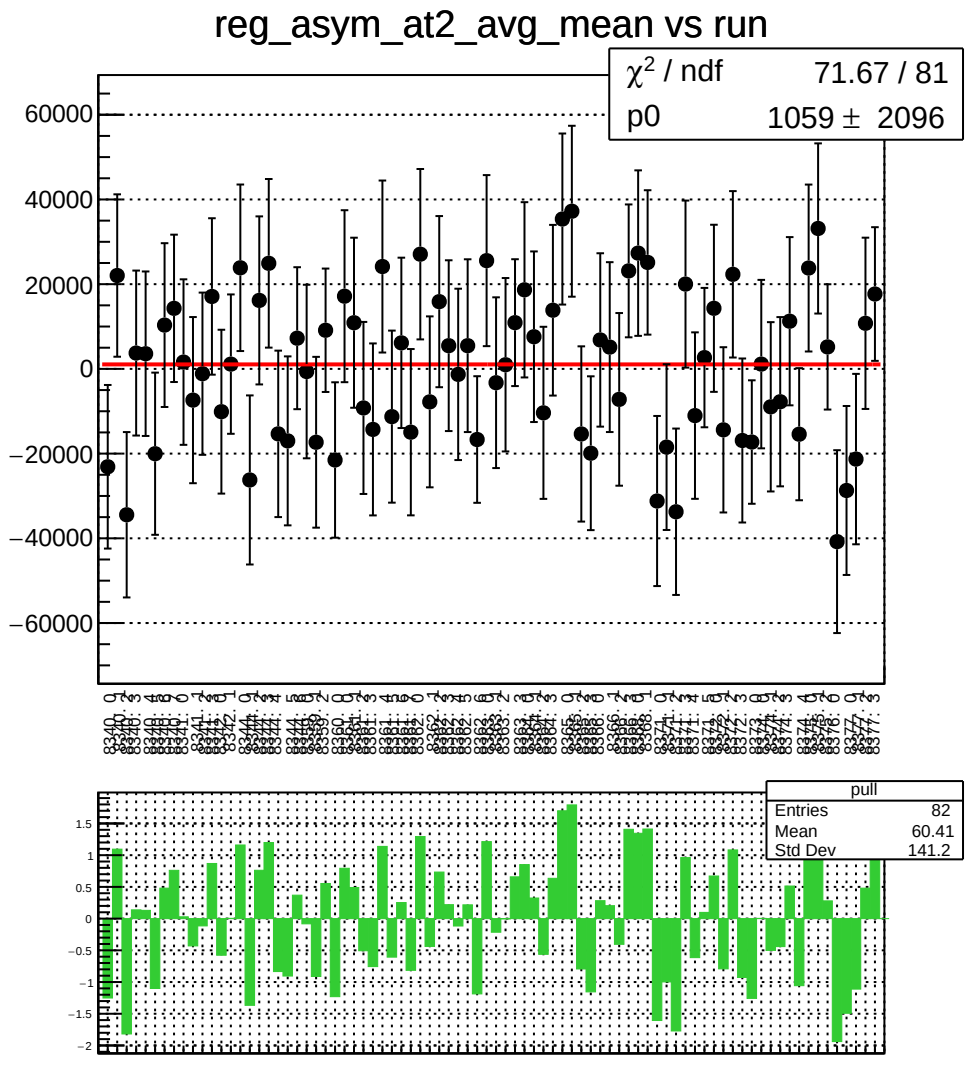

pull1D
Entries 82
Mean 0.007047
Std Dev 0.9469

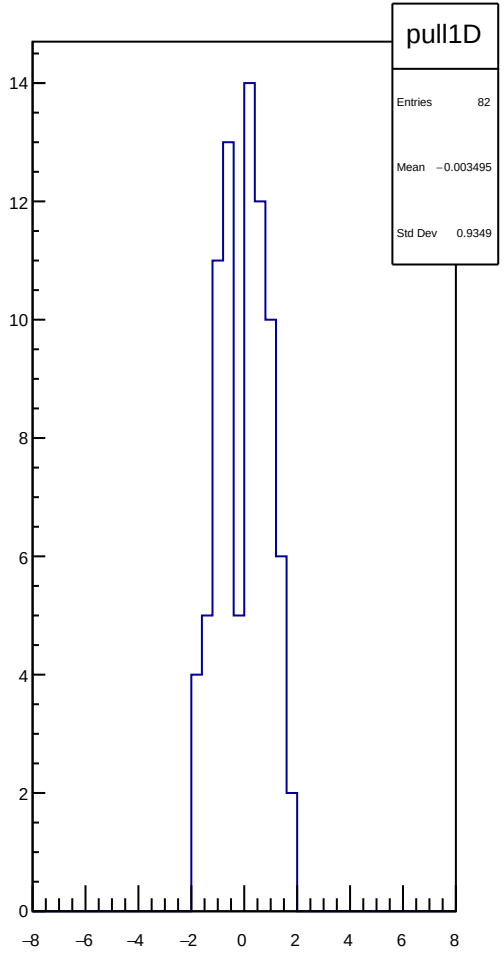

asym_at1_dd_correction_rms vs run
χ² / ndf 4823 / 81
p0 562.5 ± 0.4408
680
660
640
620
600
580
560
540
520
500
480
460

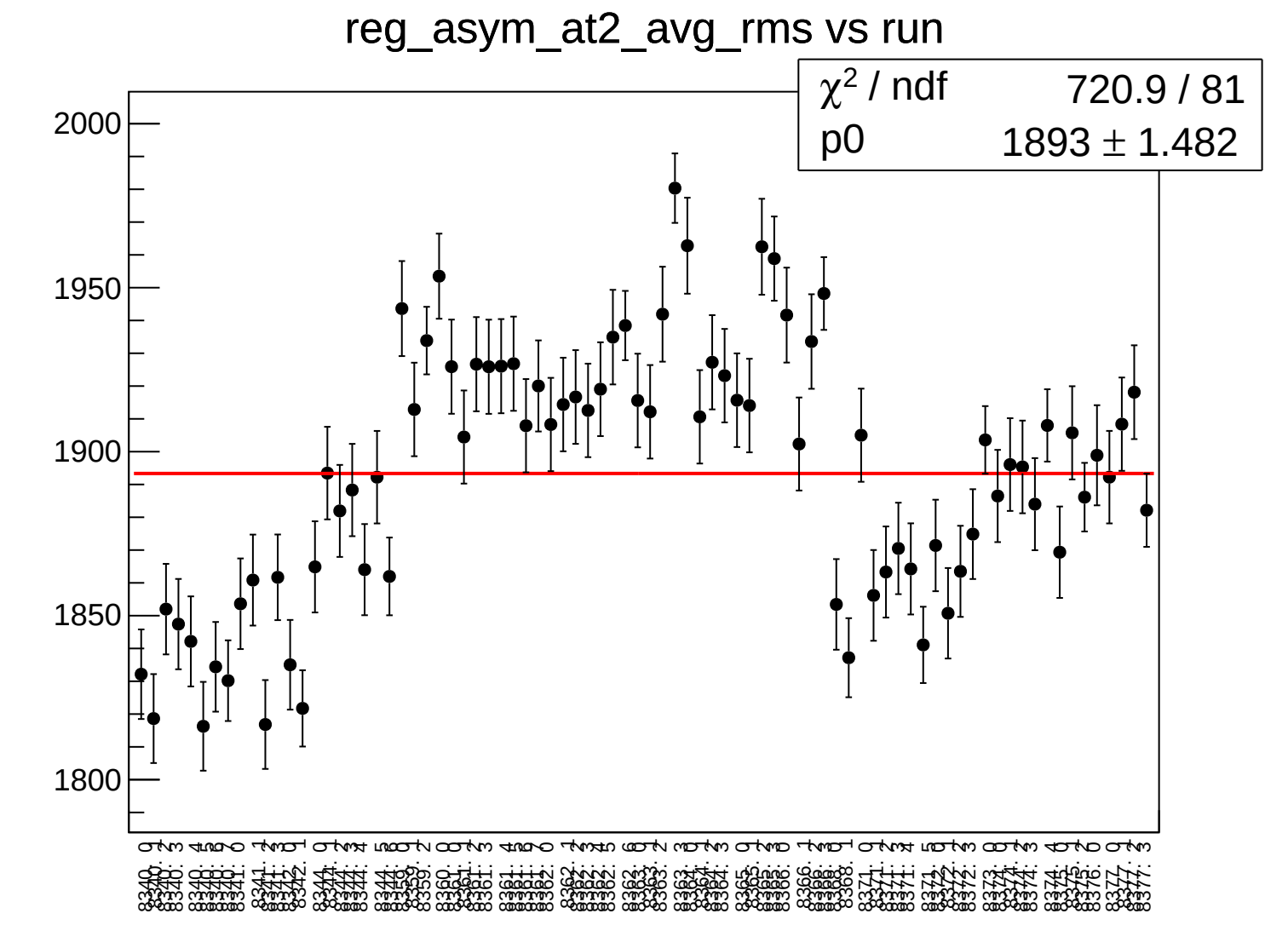

asym_at1_dd_mean vs run
×10^3
χ² / ndf 95.55 / 81
p0 −4958 ± 2151
pull
Entries 82
Mean 1046
Std Dev 1002

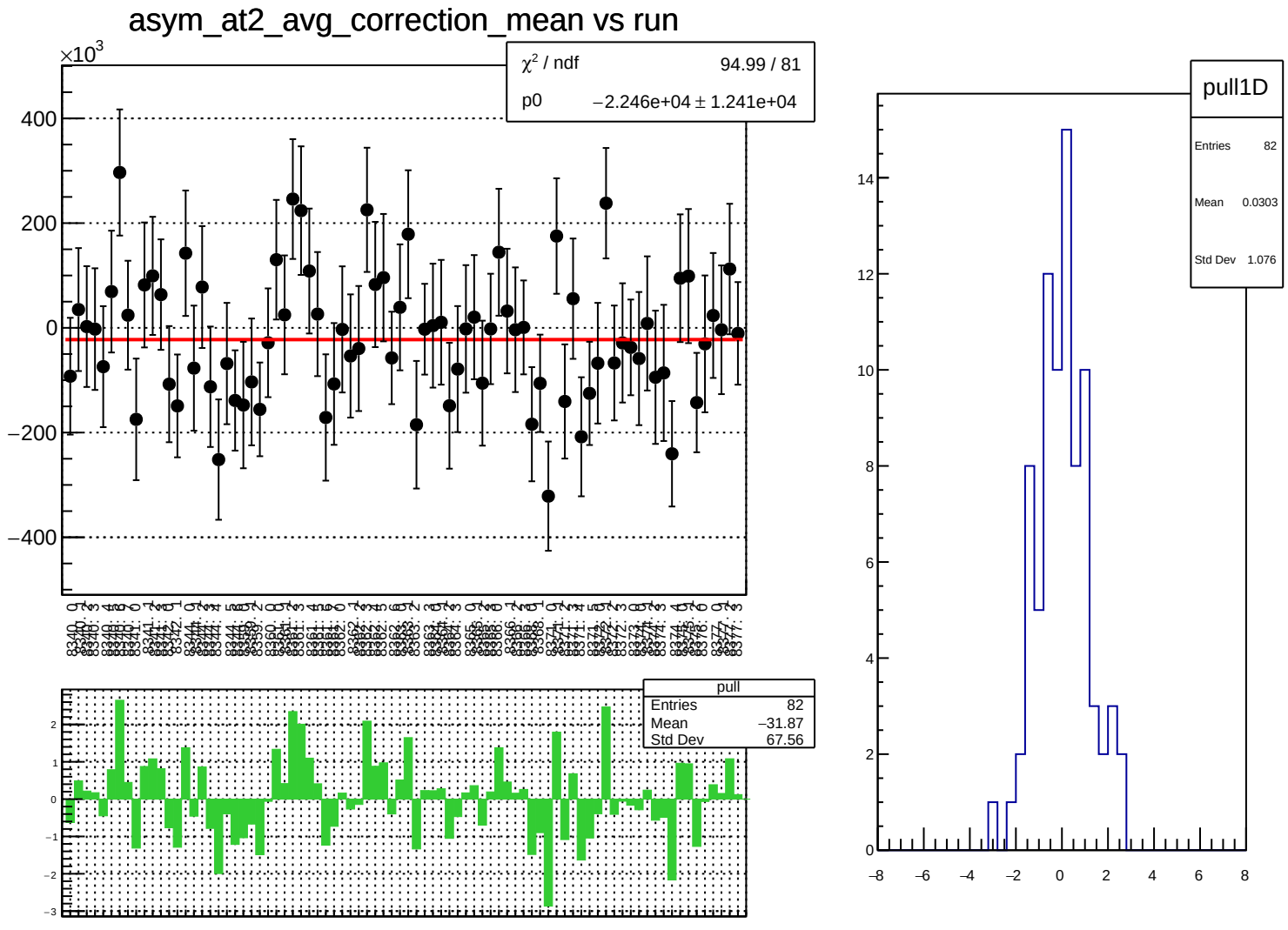

pull1D
Entries 82
Mean 0.004266
Std Dev 1.079


asym_at1_dd_rms vs run
χ² / ndf 1.905e+04 / 81
p0 1932 ± 1.521
5500
5000
4500
4000
3500
3000
2500
2000
1500

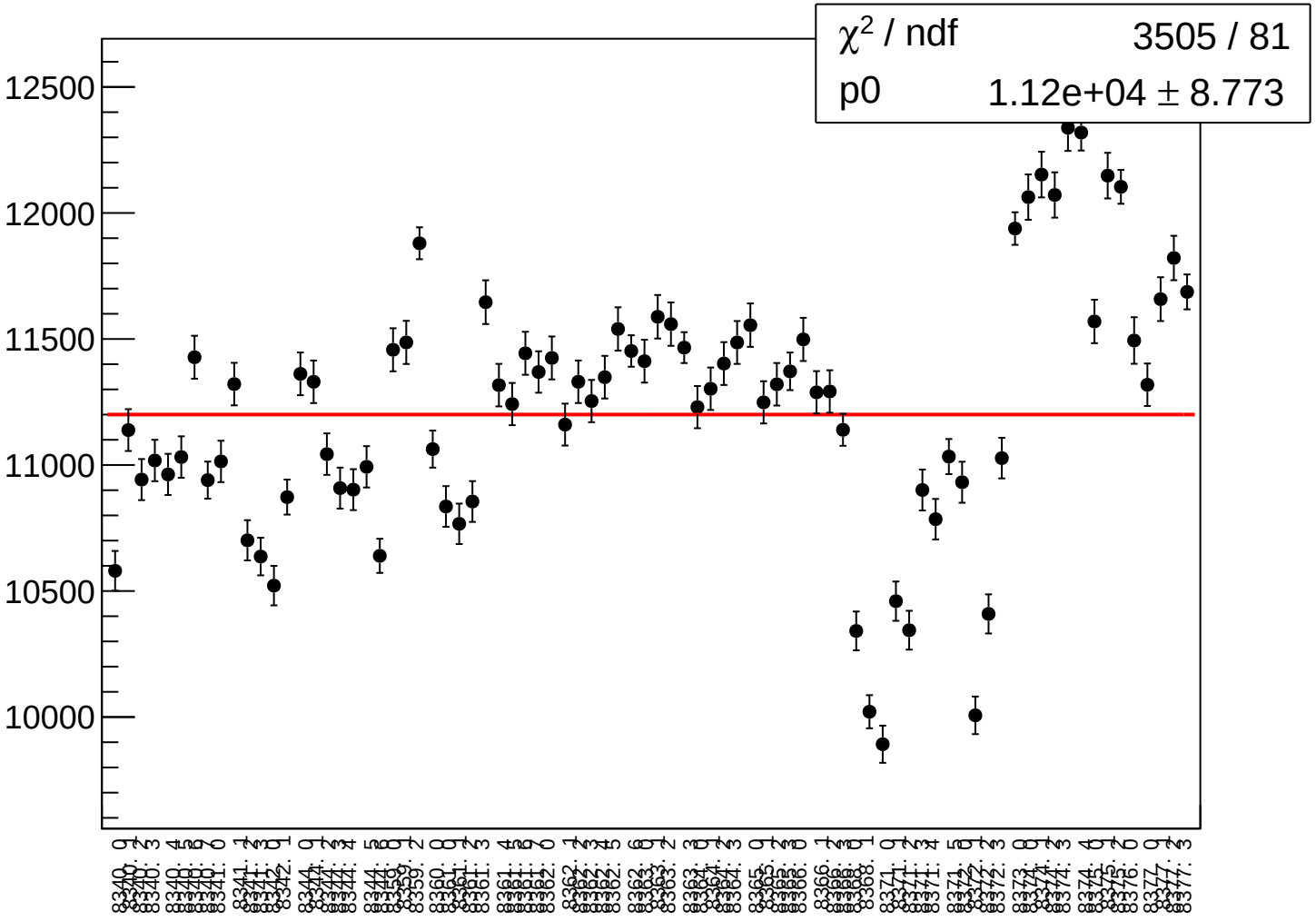

reg_asym_at2_avg_mean vs run
χ^2 / ndf 71.67 / 81
p0 1059 ± 2096
pull
Entries 82
Mean 60.41
Std Dev 141.2

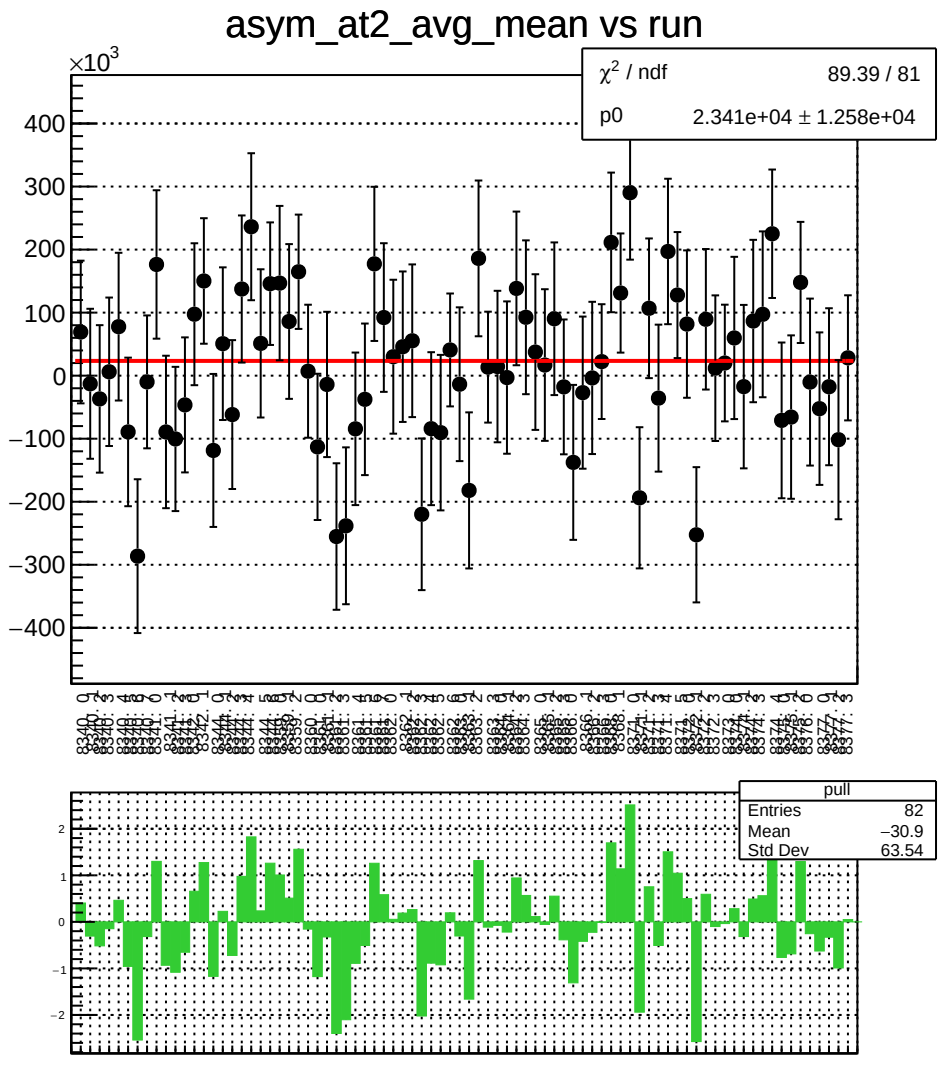

pull1D
Entries 82
Mean −0.003495
Std Dev 0.9349

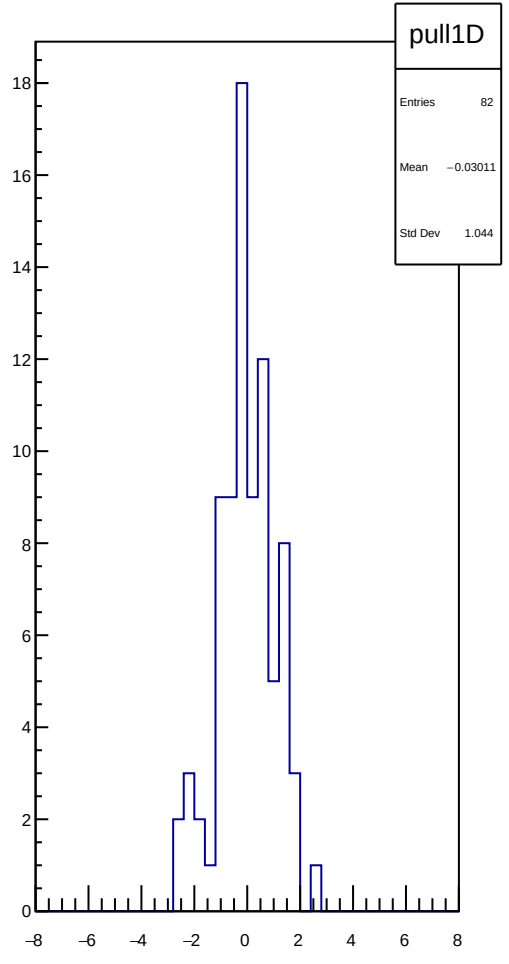

reg_asym_at2_avg_rms vs run
χ² / ndf 720.9 / 81
p0 1893 ± 1.482
2000
1950
1900
1850
1800

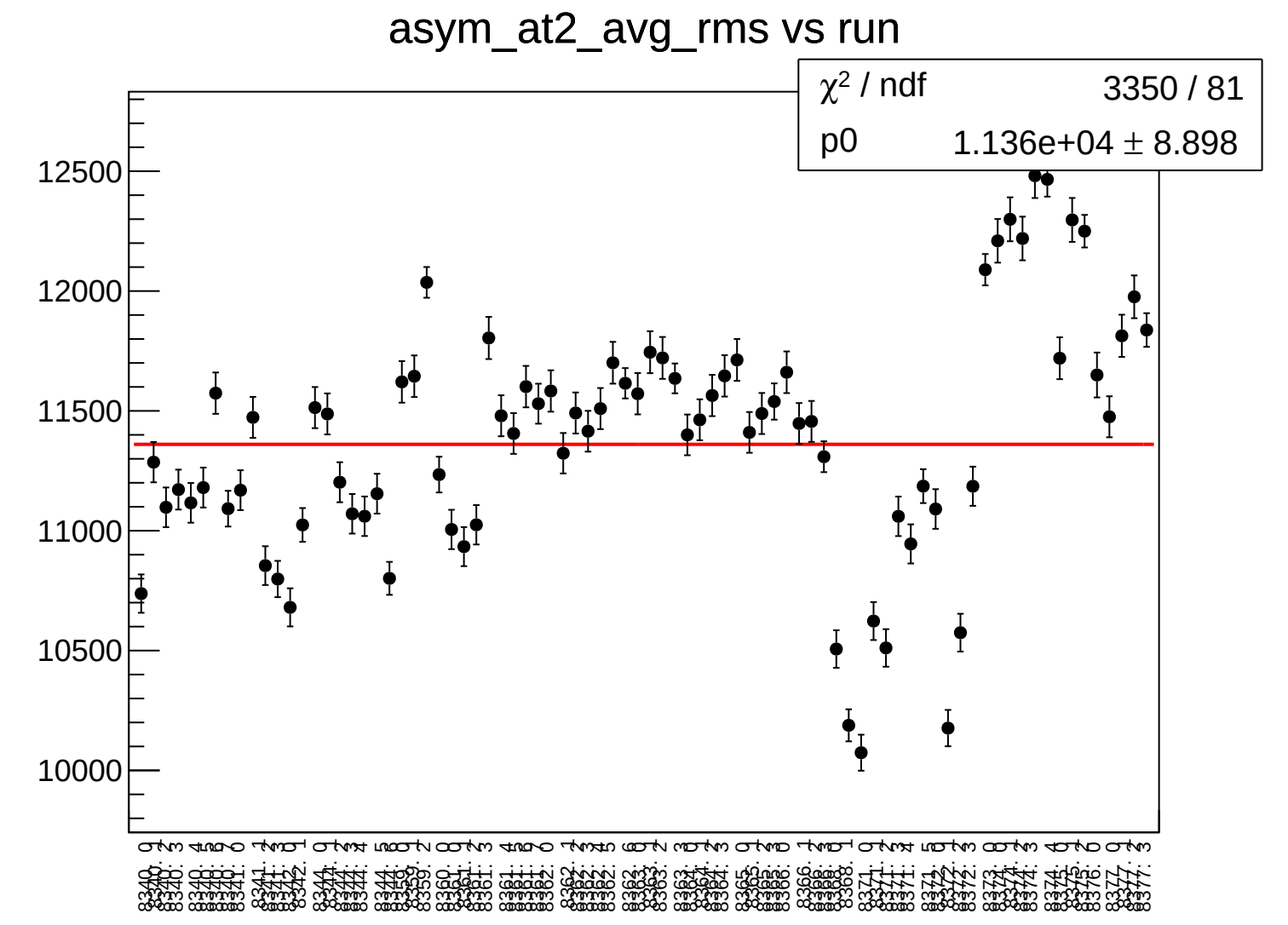

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 94.99 / 81
p0 −2.246e+04 ± 1.241e+04
400
200
0
−200
−400
pull
Entries 82
Mean −31.87
Std Dev 67.56
pull1D
Entries 82
Mean 0.0303
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

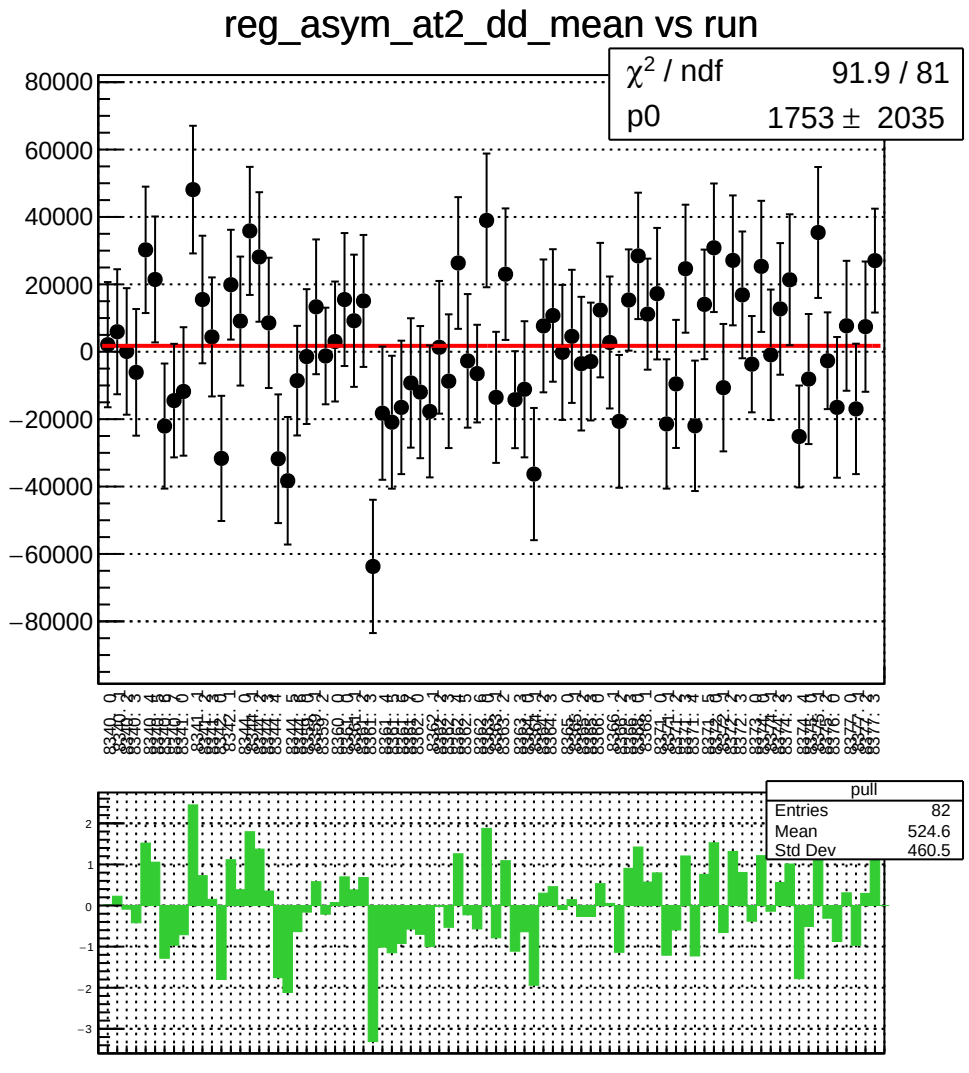
asym_at2_avg_correction_rms vs run

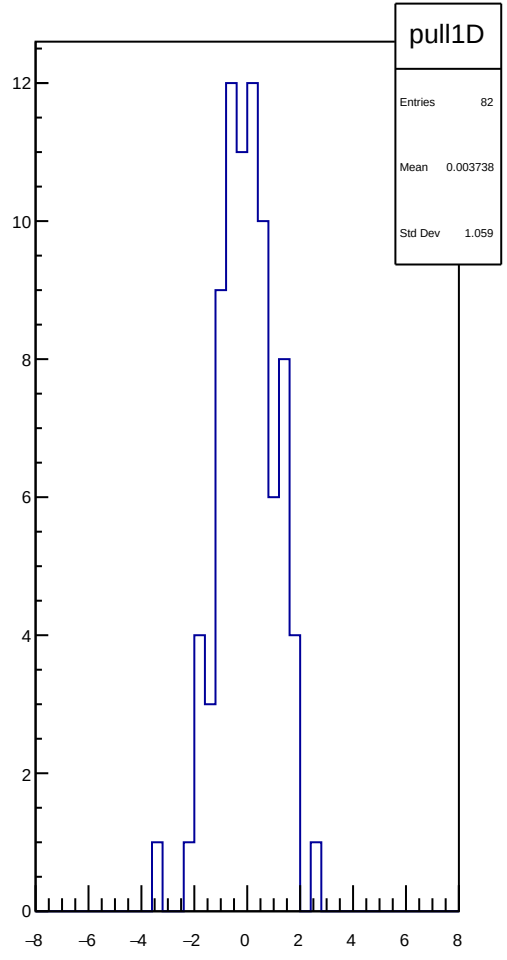


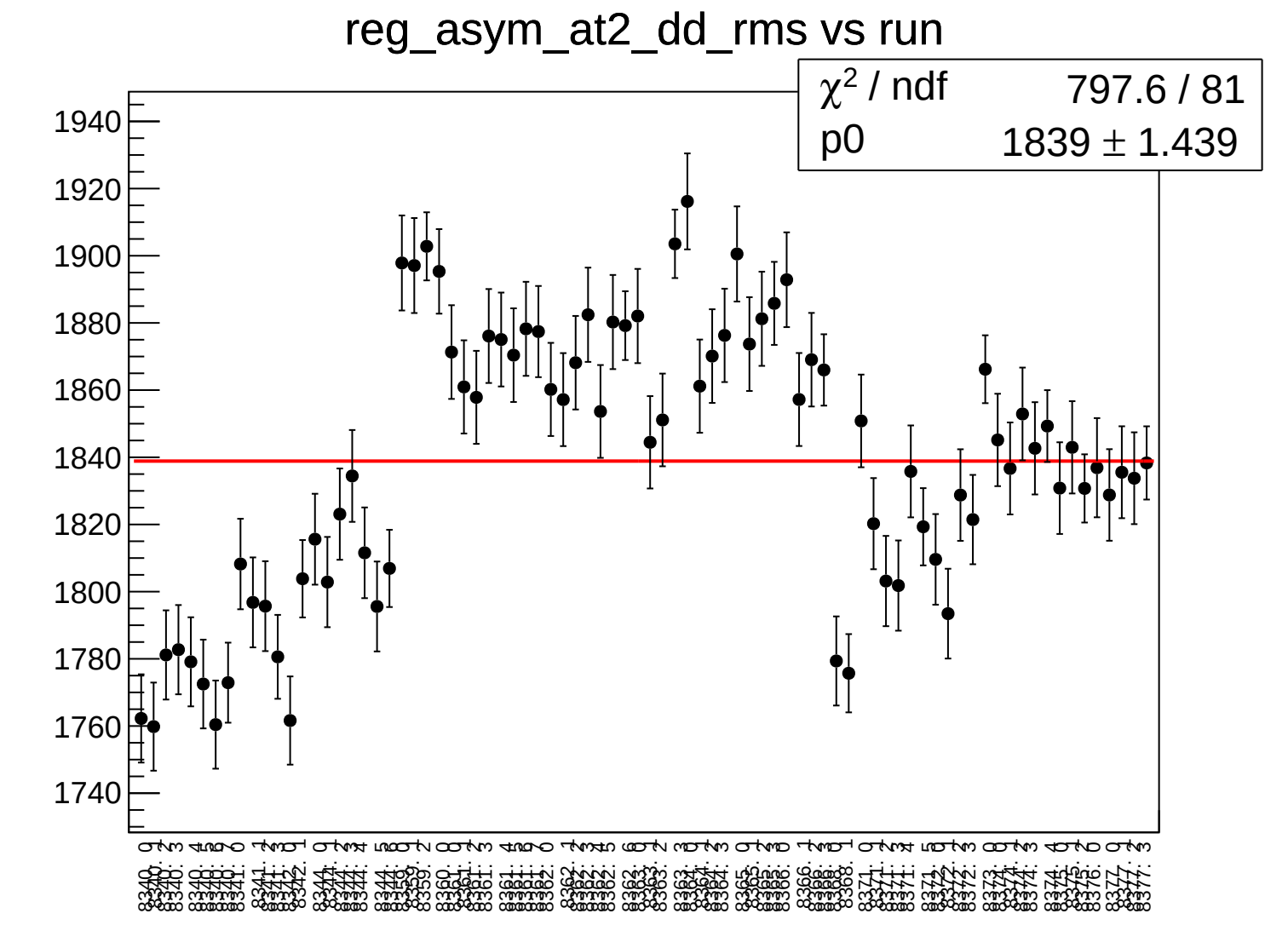

asym_at2_avg_mean vs run
×10^3
χ² / ndf 89.39 / 81
p0 2.341e+04 ± 1.258e+04
pull
Entries 82
Mean −30.9
Std Dev 63.54

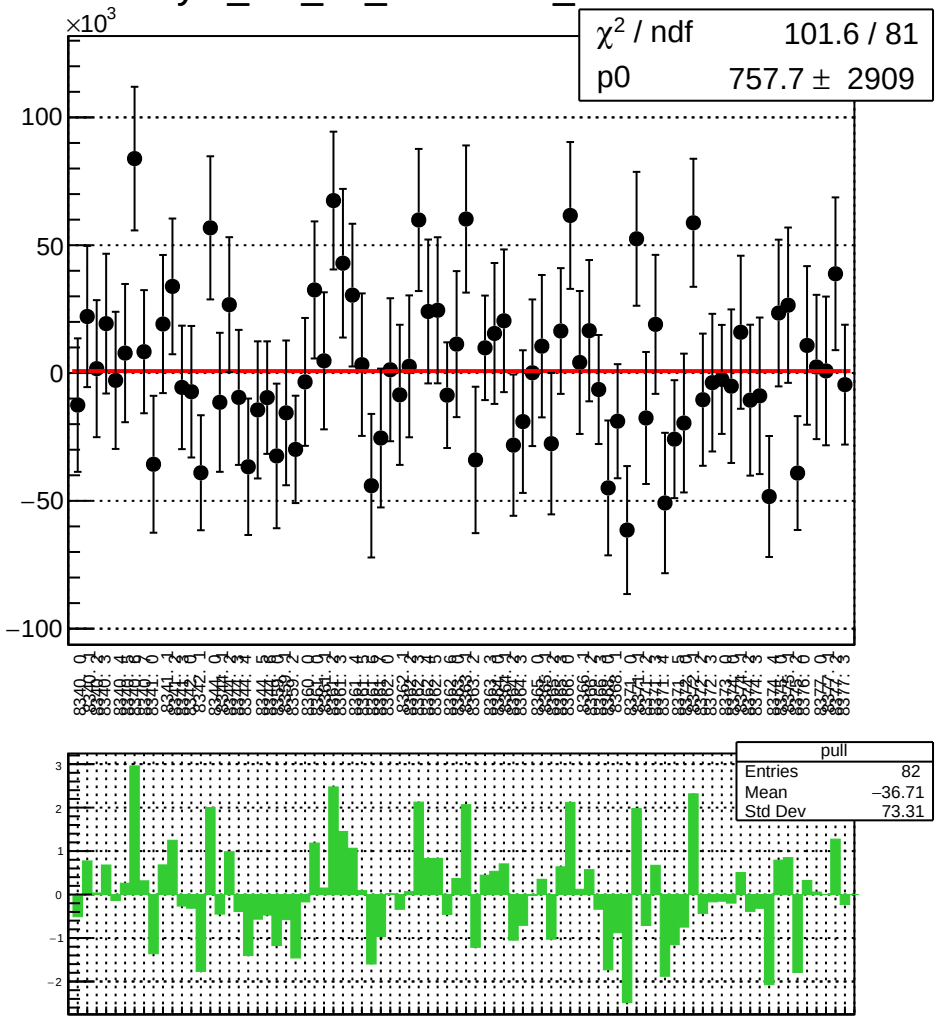

pull1D
Entries 82
Mean −0.03011
Std Dev 1.044

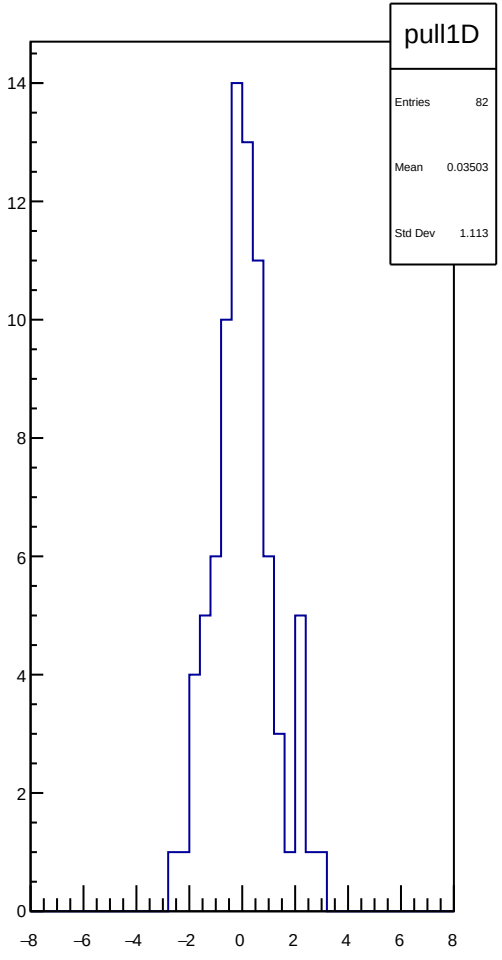

asym_at2_avg_rms vs run
χ² / ndf 3350 / 81
p0 1.136e+04 ± 8.898
12500
12000
11500
11000
10500
10000

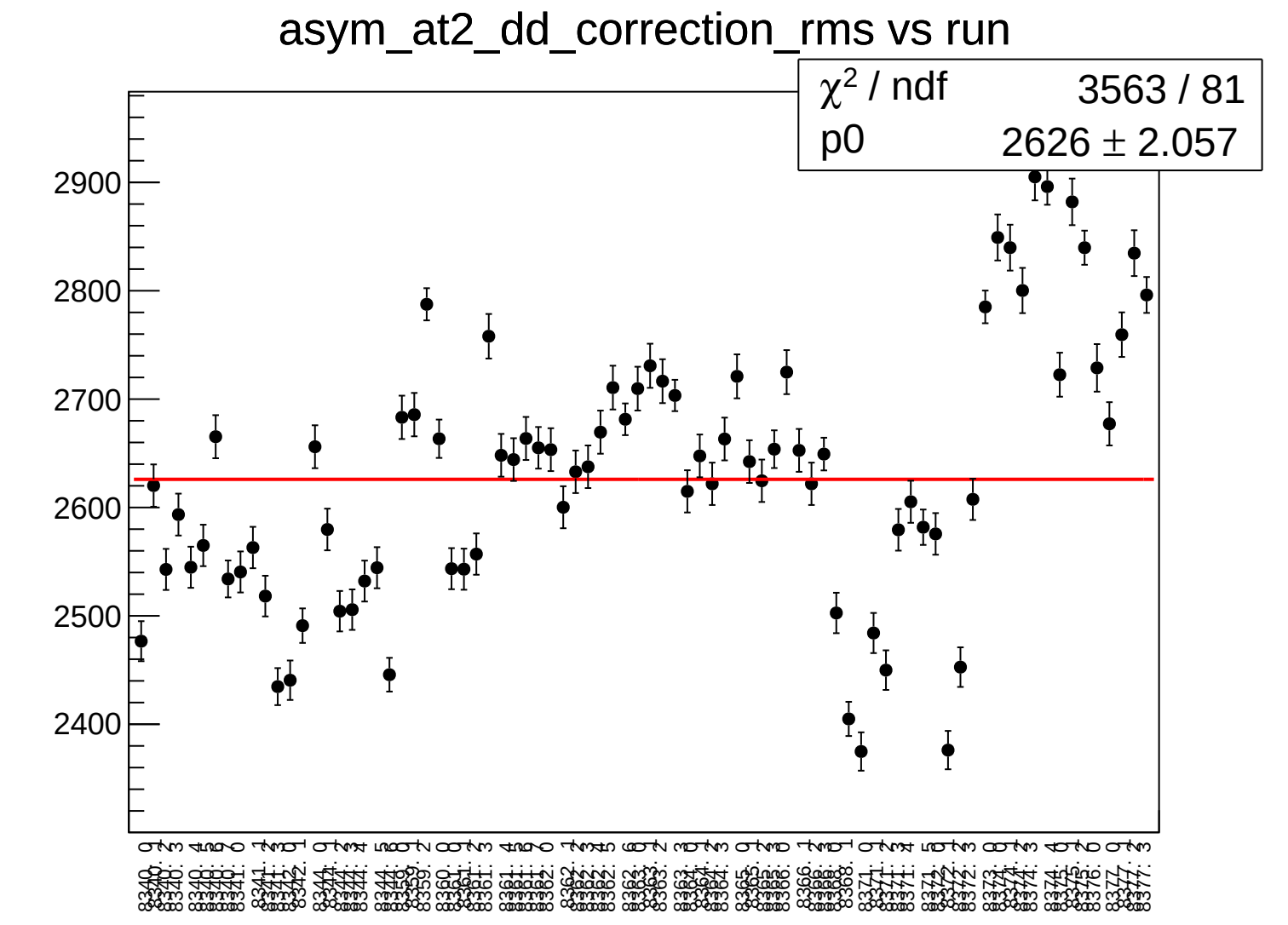

reg_asym_at2_dd_mean vs run
χ² / ndf 91.9 / 81
p0 1753 ± 2035
pull
Entries 82
Mean 524.6
Std Dev 460.5

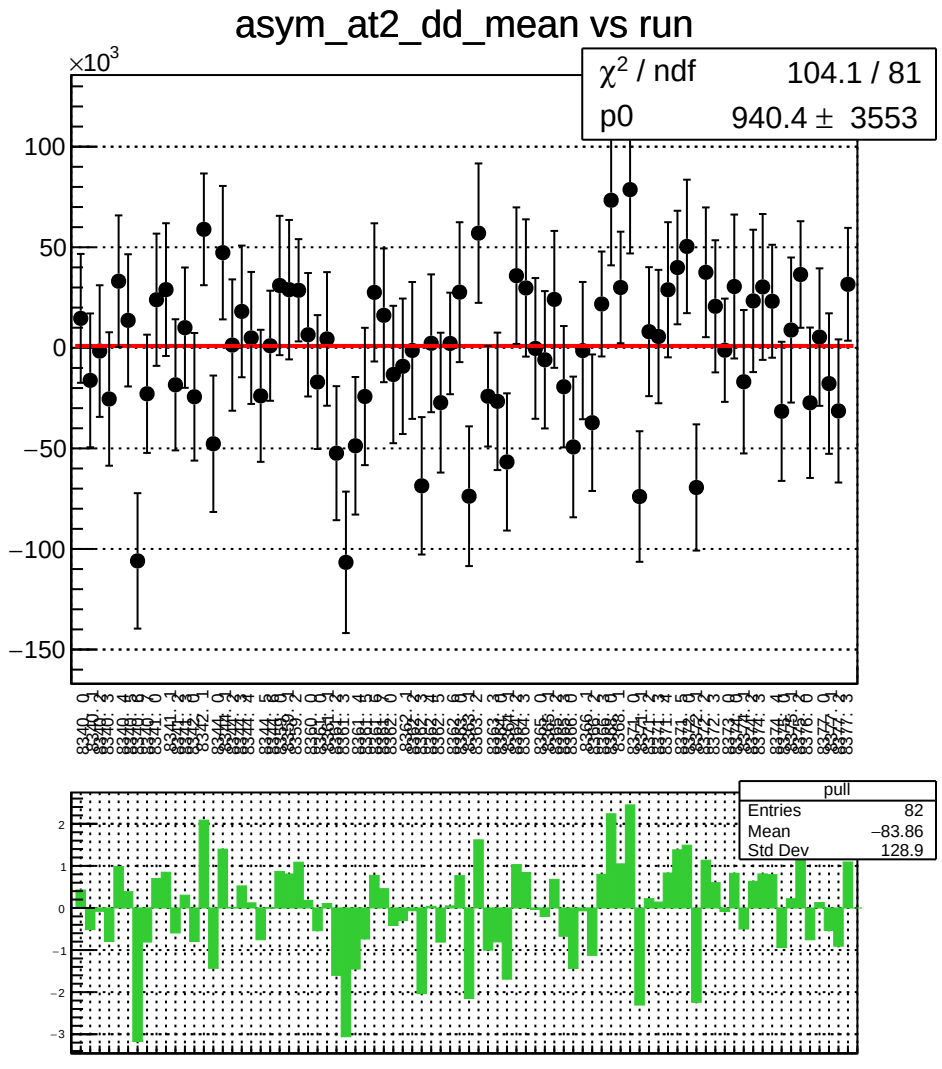

pull1D
Entries 82
Mean 0.003738
Std Dev 1.059

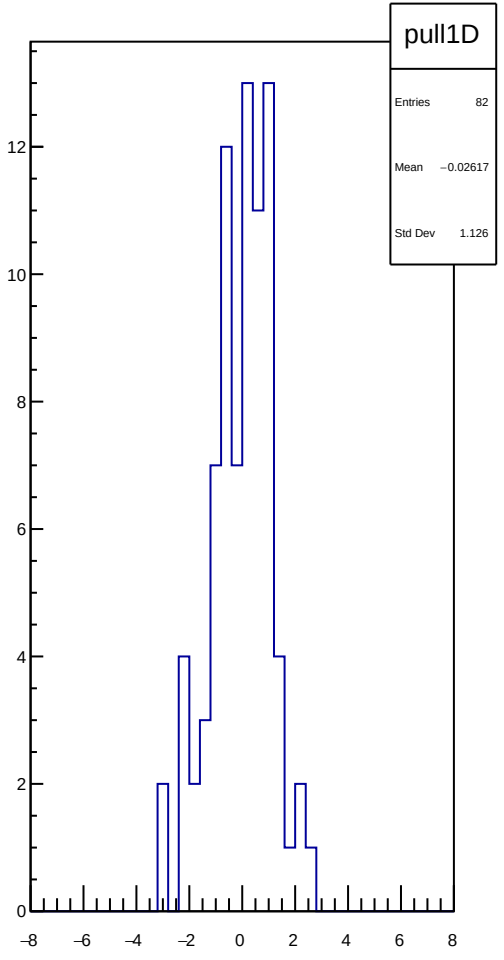

reg_asym_at2_dd_rms vs run
χ² / ndf 797.6 / 81
p0 1839 ± 1.439
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

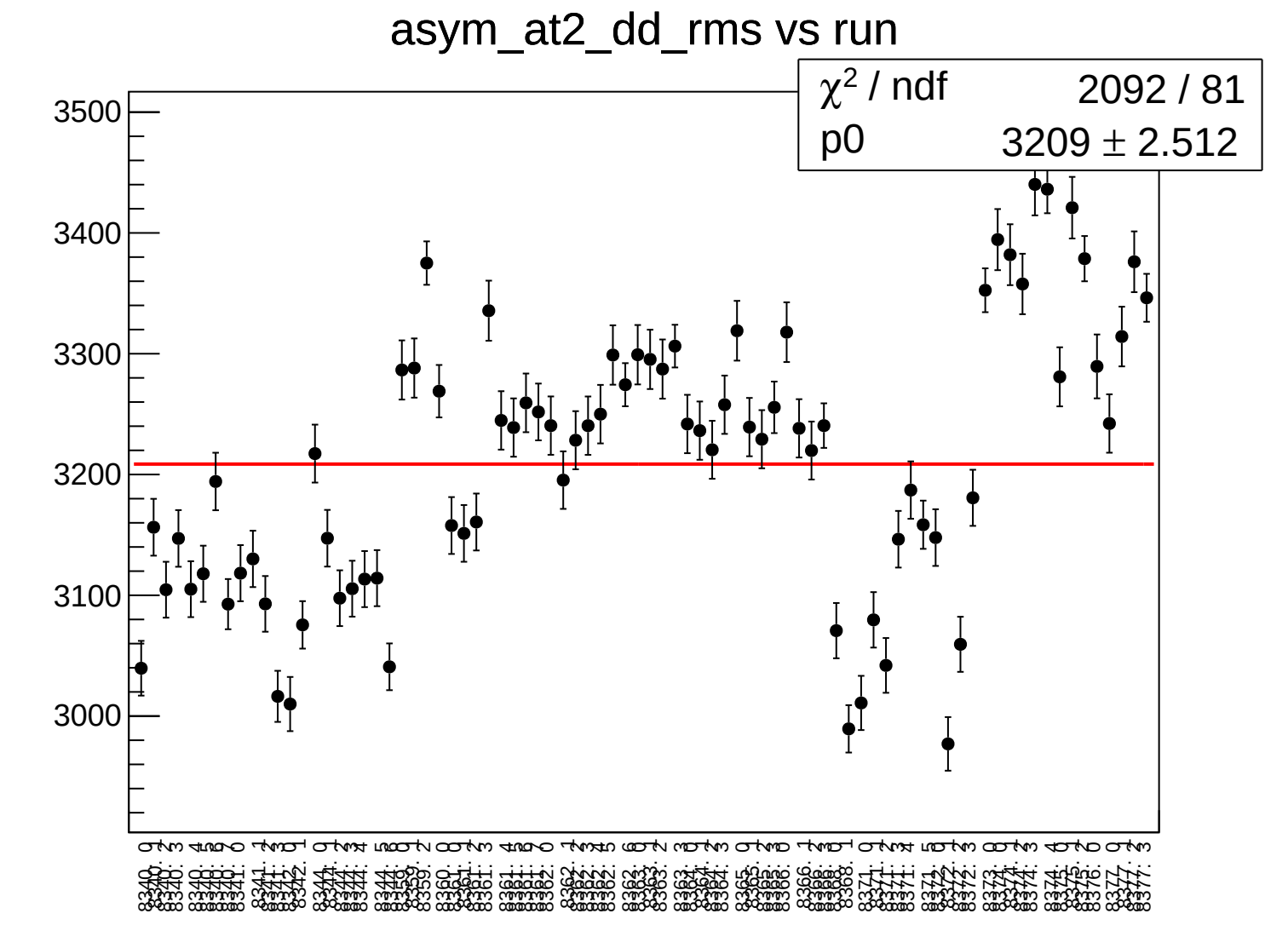

asym_at2_dd_correction_mean vs run
χ^2 / ndf 101.6 / 81
p0 757.7 ± 2909
×10^3
pull
Entries 82
Mean −36.71
Std Dev 73.31

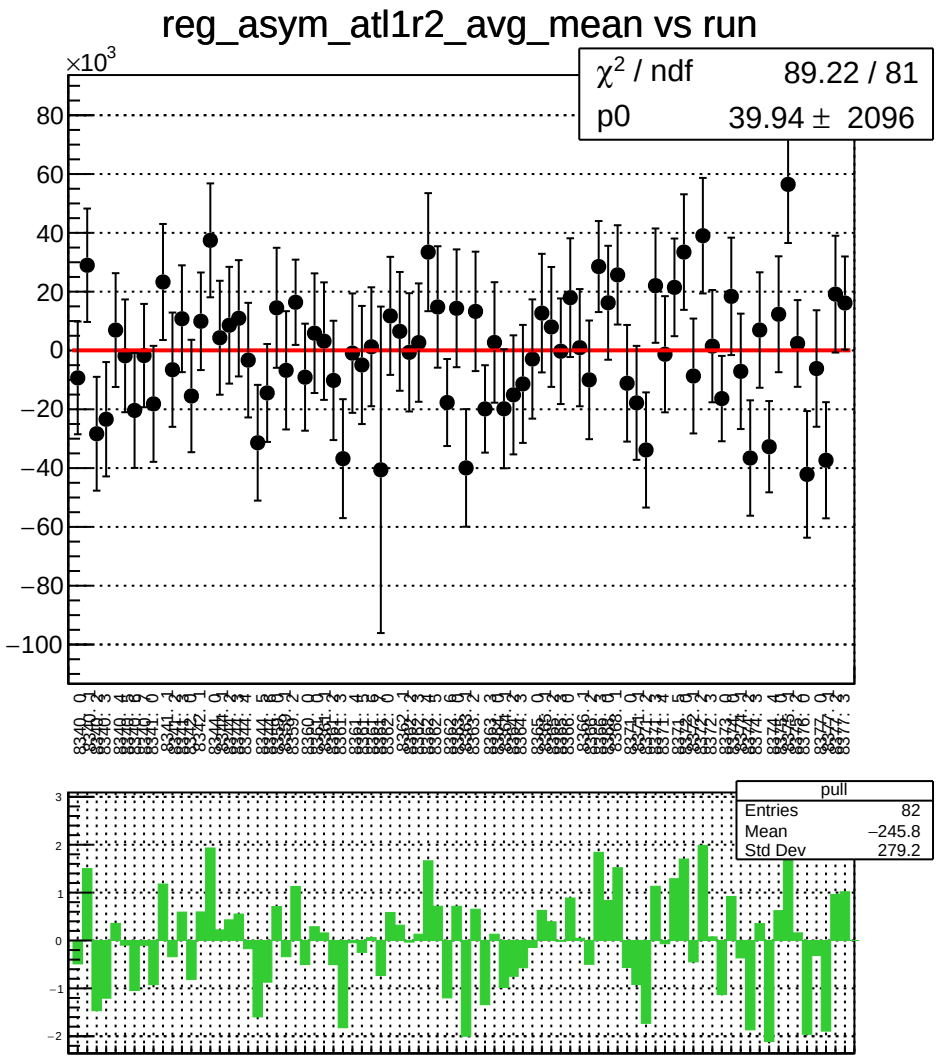

pull1D
Entries 82
Mean 0.03503
Std Dev 1.113

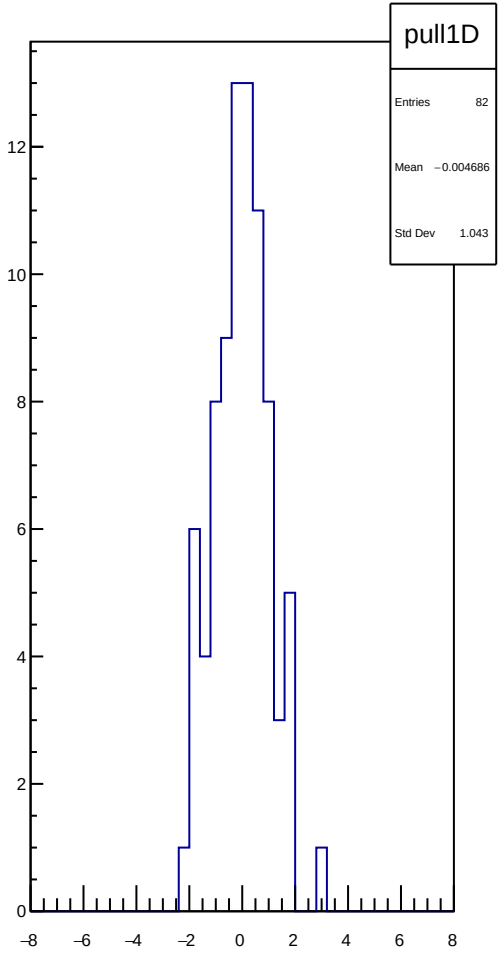

asym_at2_dd_correction_rms vs run
χ² / ndf 3563 / 81
p0 2626 ± 2.057
2900
2800
2700
2600
2500
2400

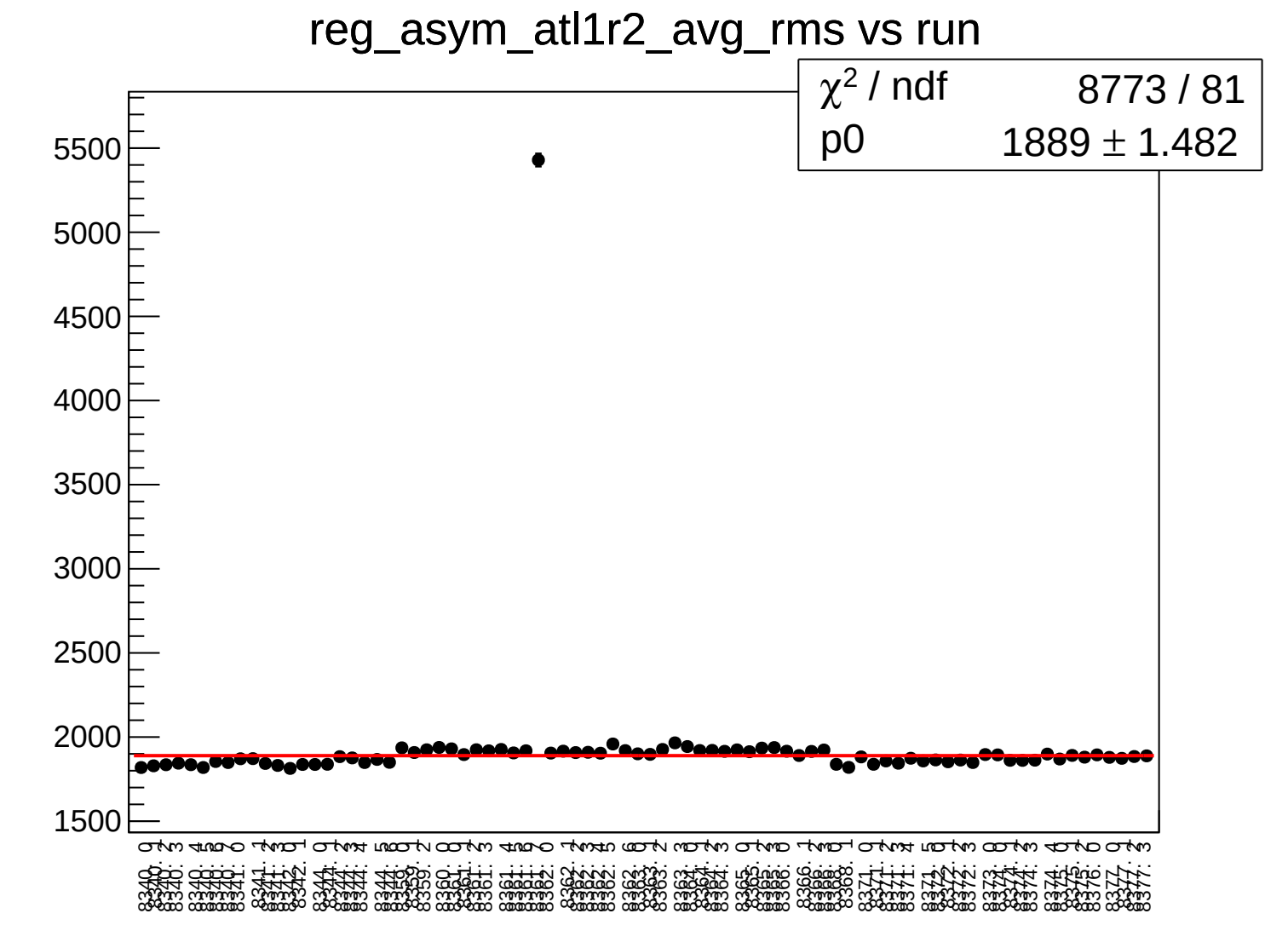

asym_at2_dd_mean vs run
×10^3
χ² / ndf 104.1 / 81
p0 940.4 ± 3553
100
50
0
−50
−100
−150
pull
Entries 82
Mean −83.86
Std Dev 128.9
2
1
0
−1
−2
−3

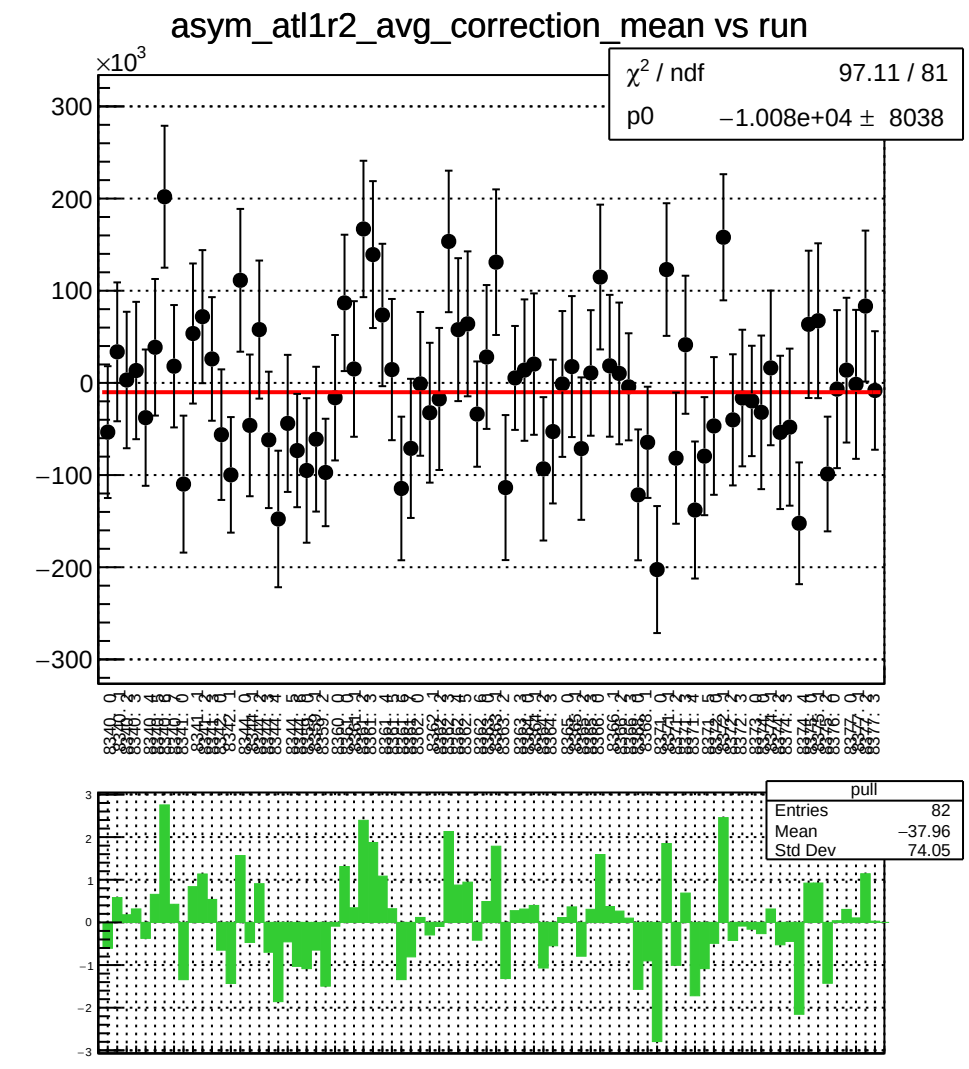

pull1D
Entries 82
Mean −0.02617
Std Dev 1.126
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

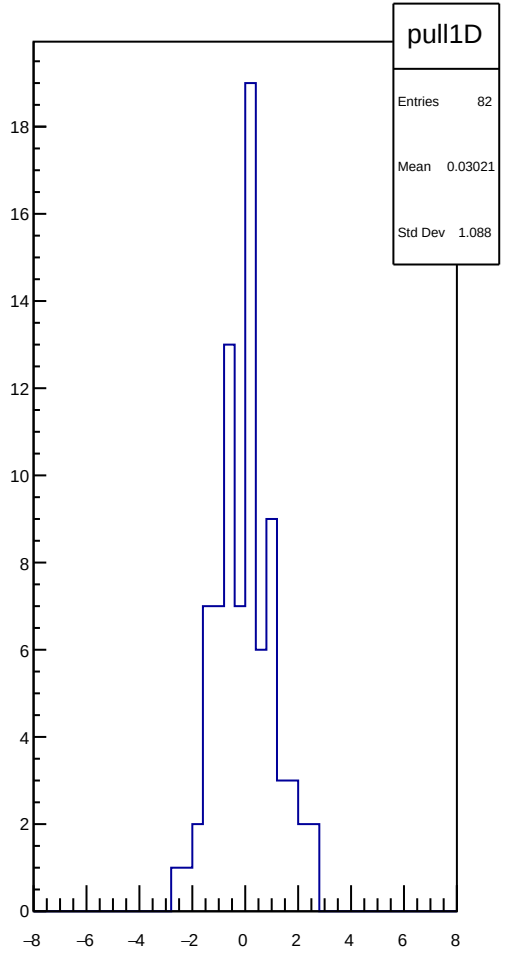

asym_at2_dd_rms vs run
χ² / ndf 2092 / 81
p0 3209 ± 2.512
3500
3400
3300
3200
3100
3000

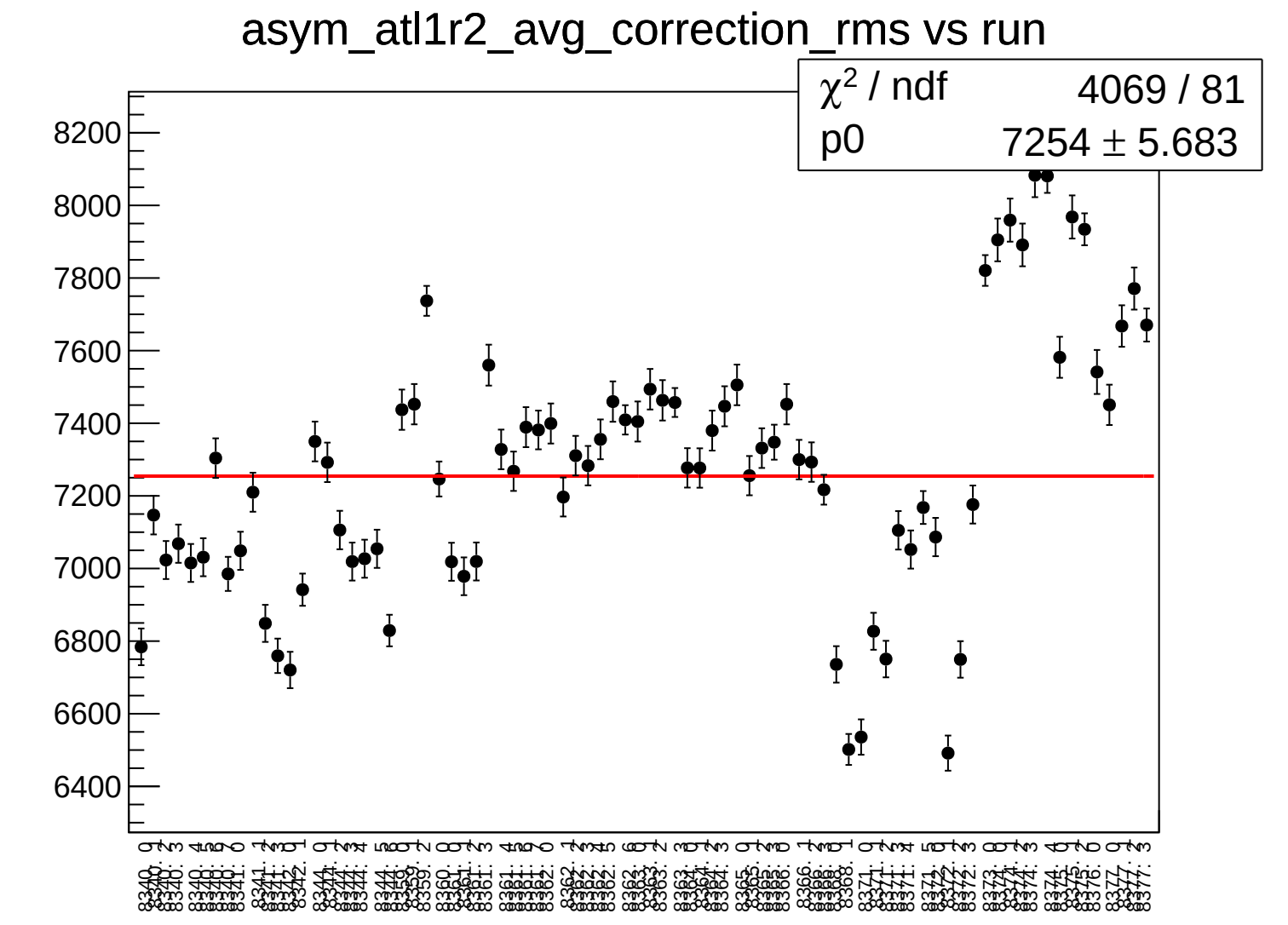

reg_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 89.22 / 81
p0 39.94 ± 2096
pull
Entries 82
Mean −245.8
Std Dev 279.2

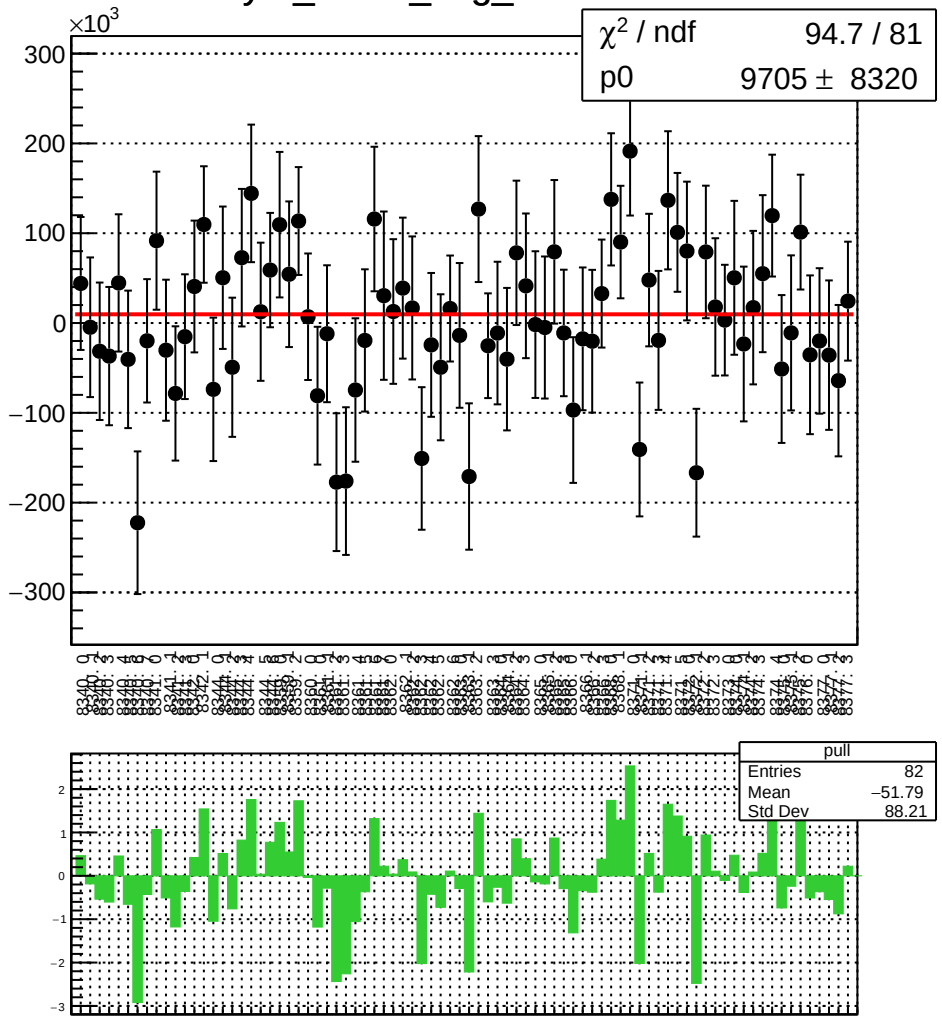

pull1D
Entries 82
Mean −0.004686
Std Dev 1.043

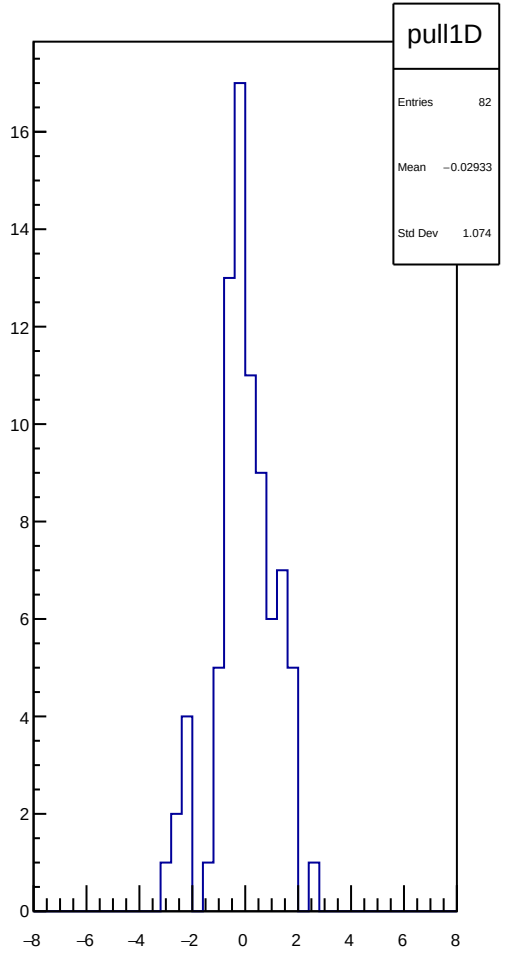

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 8773 / 81
p0 1889 ± 1.482
5500
5000
4500
4000
3500
3000
2500
2000
1500

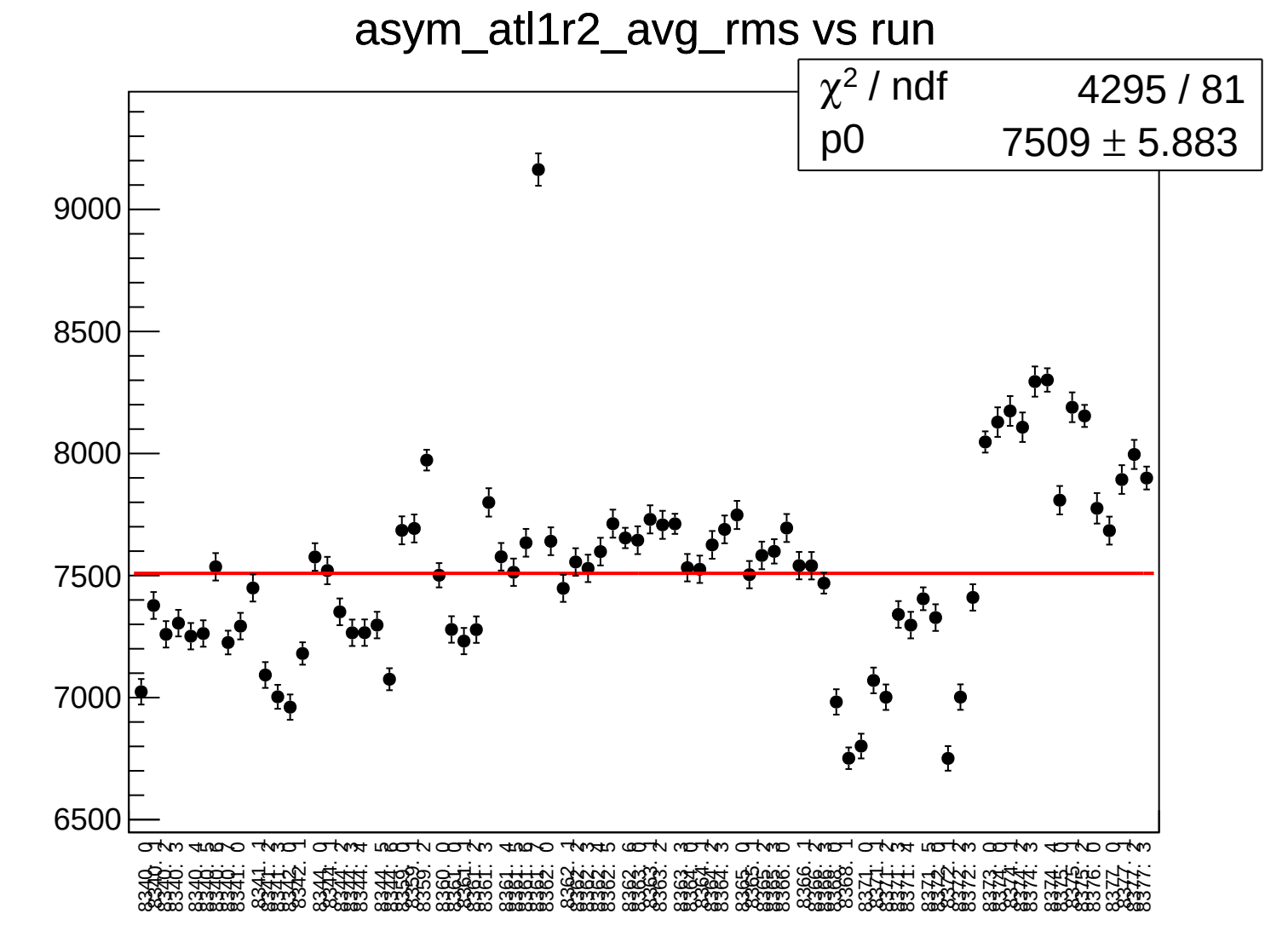

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 97.11 / 81
p0 −1.008e+04 ± 8038
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −37.96
Std Dev 74.05
3
2
1
0
−1
−2
−3

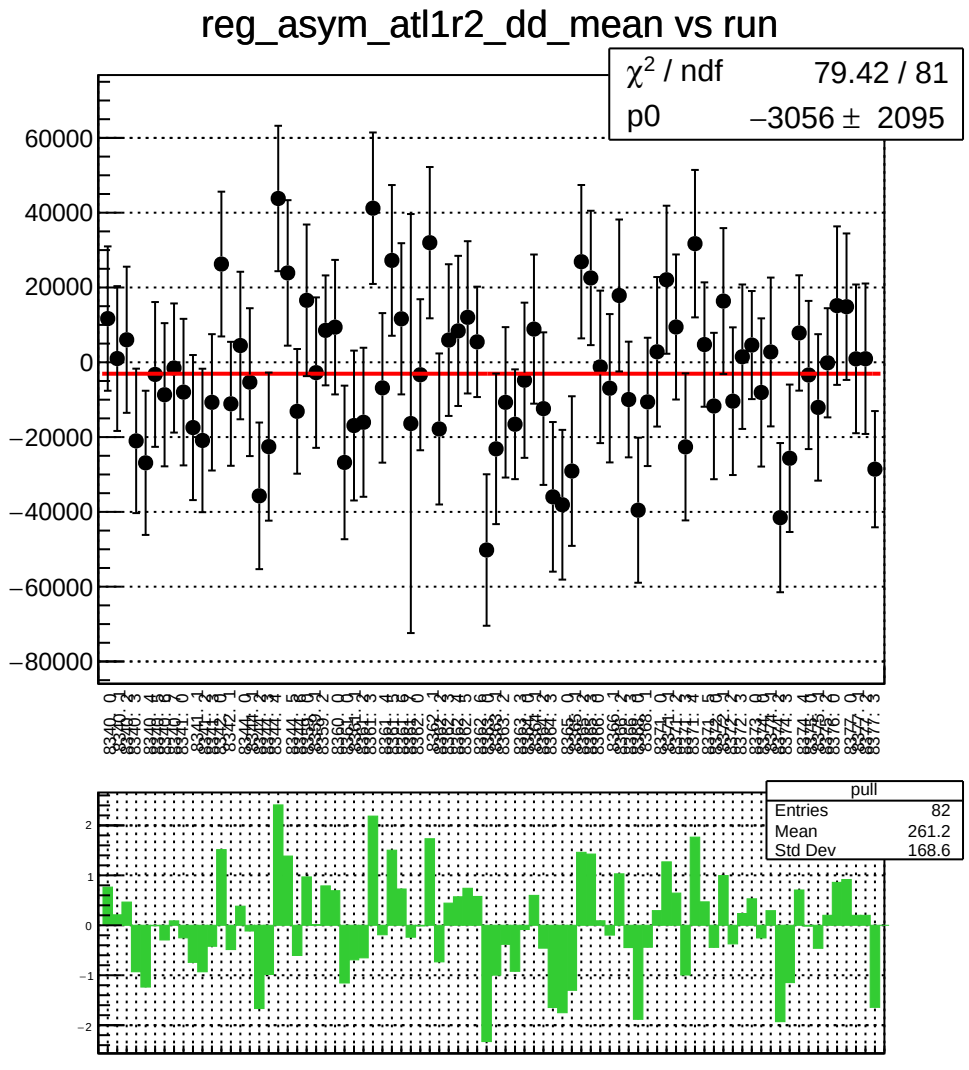

pull1D
Entries 82
Mean 0.03021
Std Dev 1.088
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

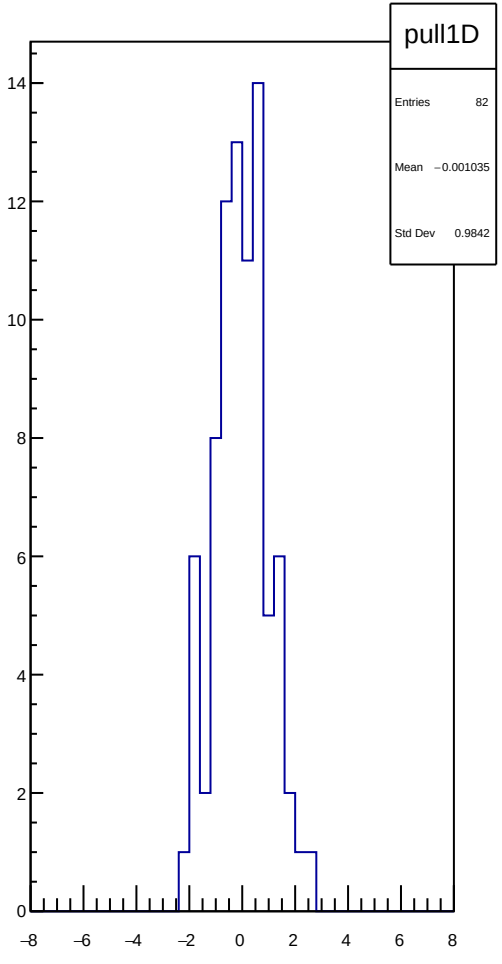

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 4069 / 81
p0 7254 ± 5.683
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

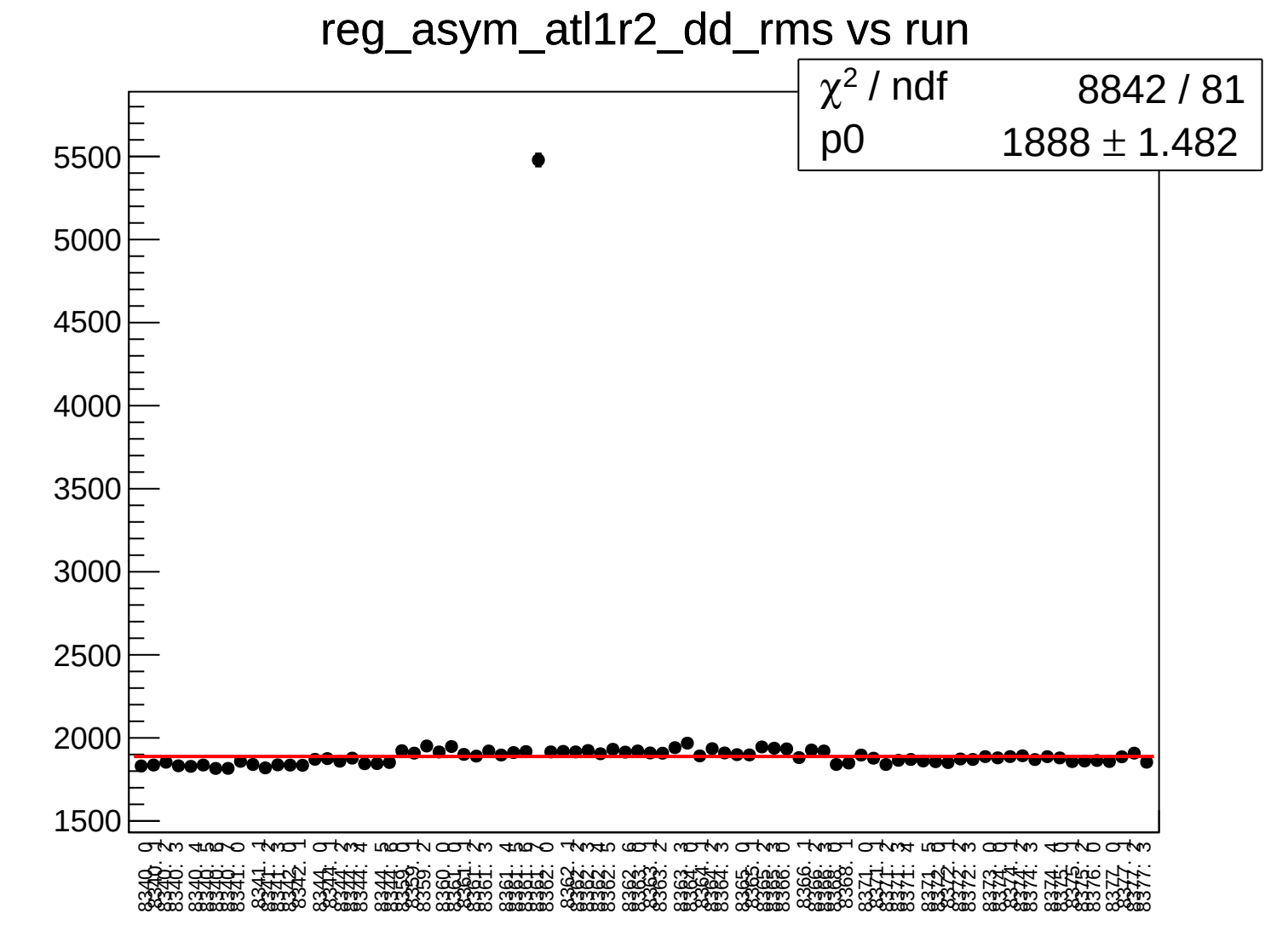

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 94.7 / 81
p0 9705 ± 8320
pull
Entries 82
Mean −51.79
Std Dev 88.21

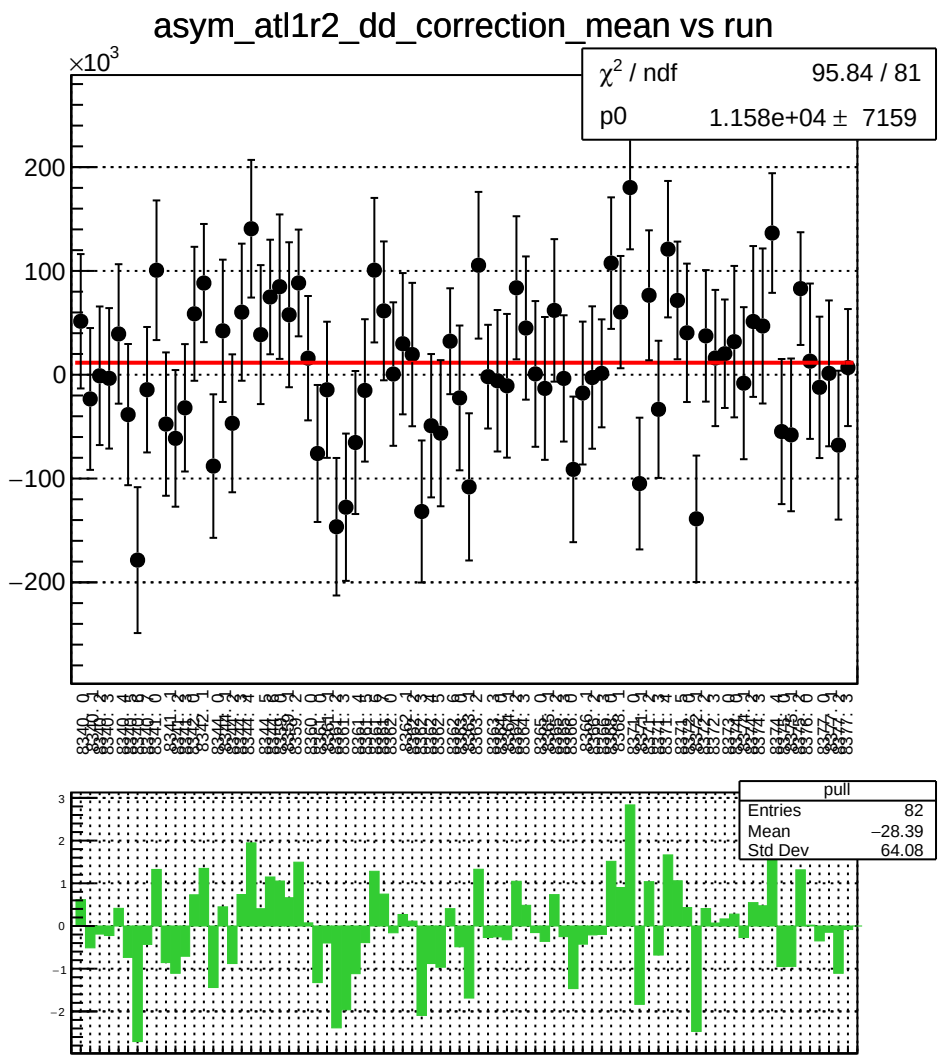

pull1D
Entries 82
Mean −0.02933
Std Dev 1.074

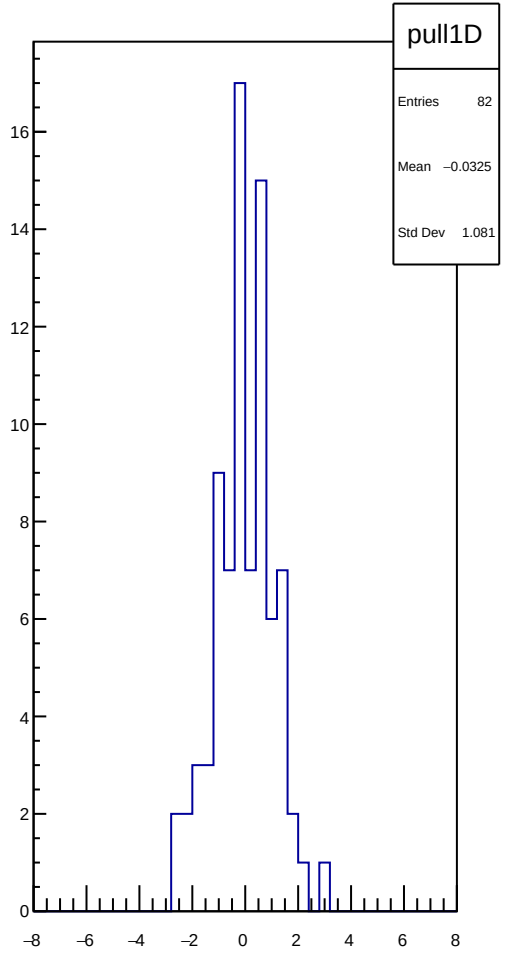

asym_atl1r2_avg_rms vs run
χ² / ndf 4295 / 81
p0 7509 ± 5.883
9000
8500
8000
7500
7000
6500

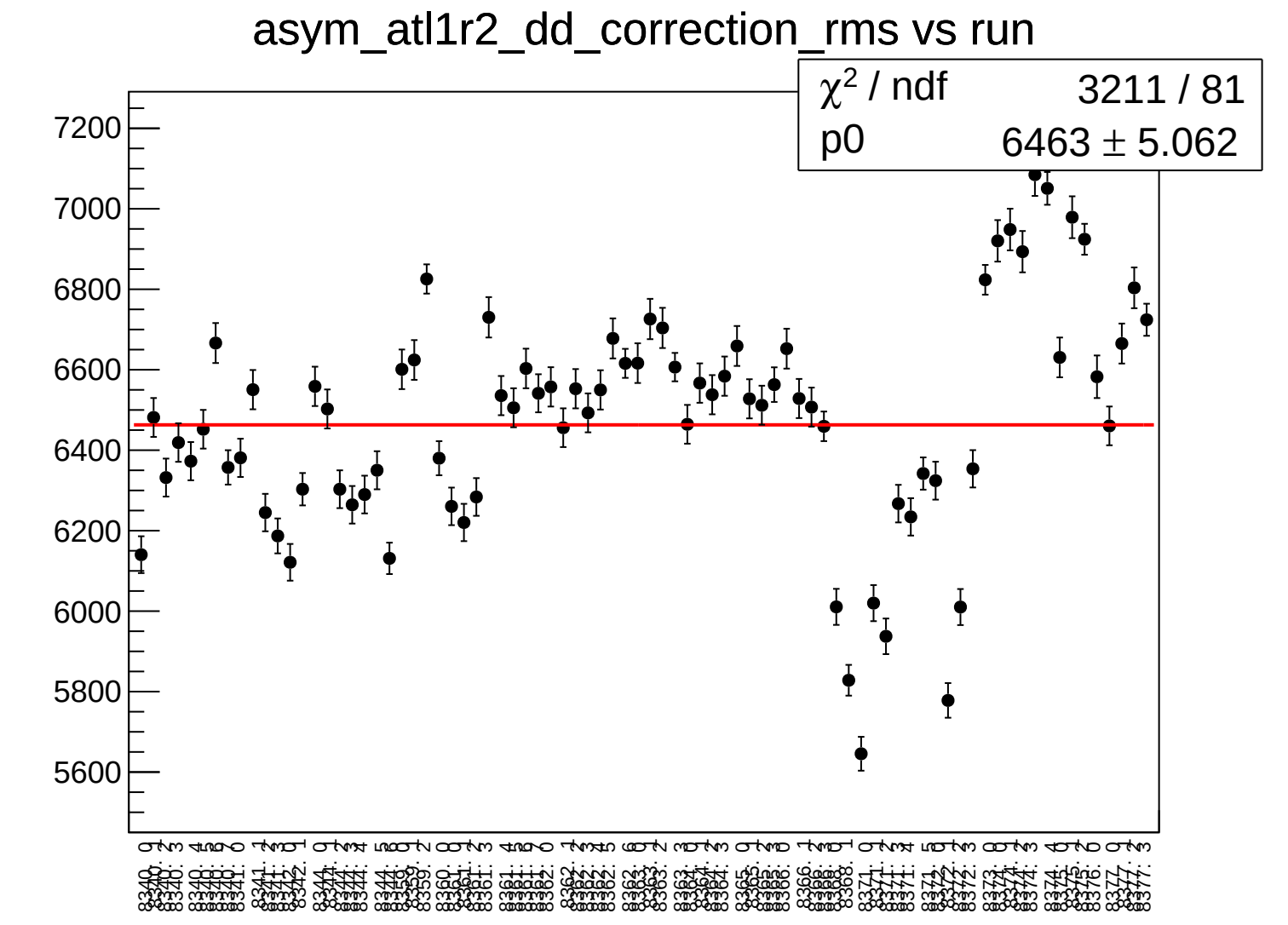

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 79.42 / 81
p0 −3056 ± 2095
pull
Entries 82
Mean 261.2
Std Dev 168.6

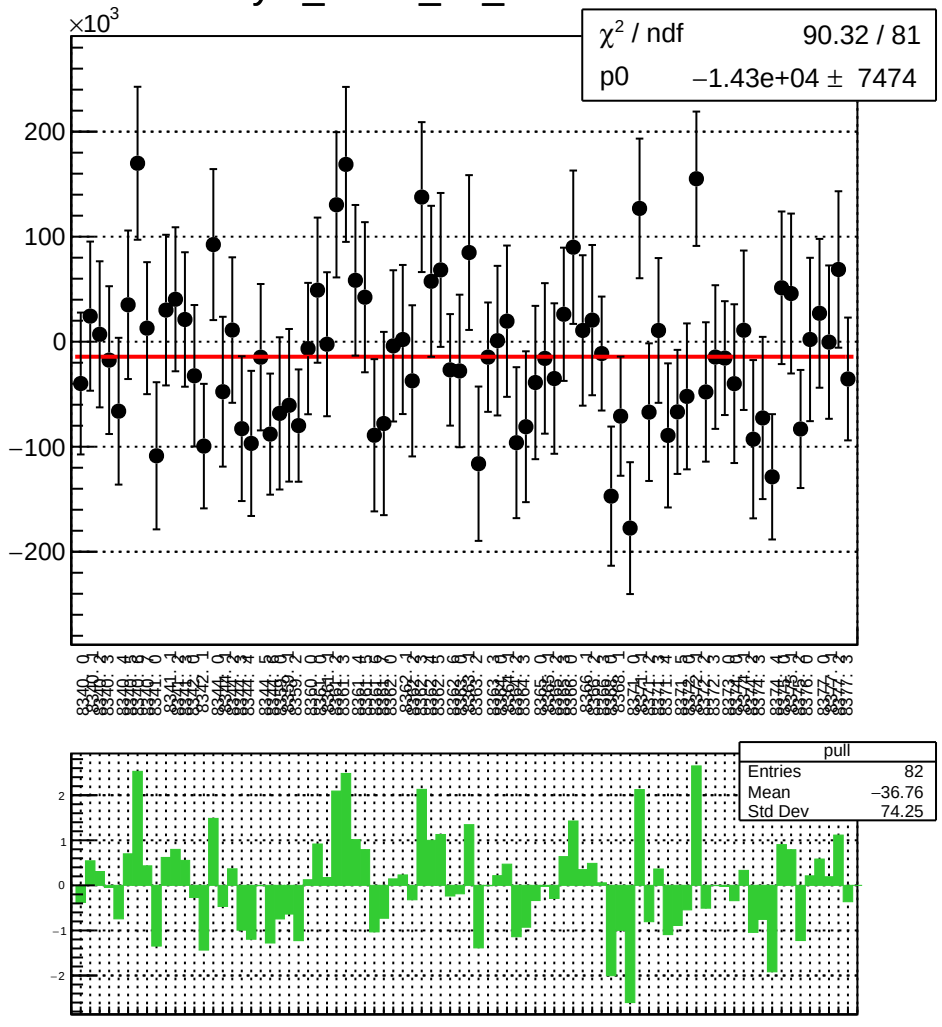

pull1D
Entries 82
Mean −0.001035
Std Dev 0.9842

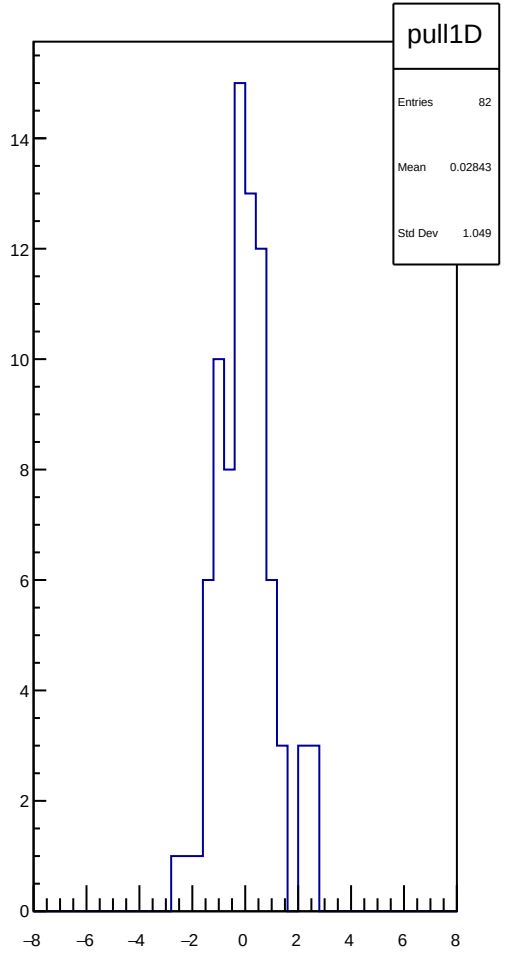

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 8842 / 81
p0 1888 ± 1.482
5500
5000
4500
4000
3500
3000
2500
2000
1500

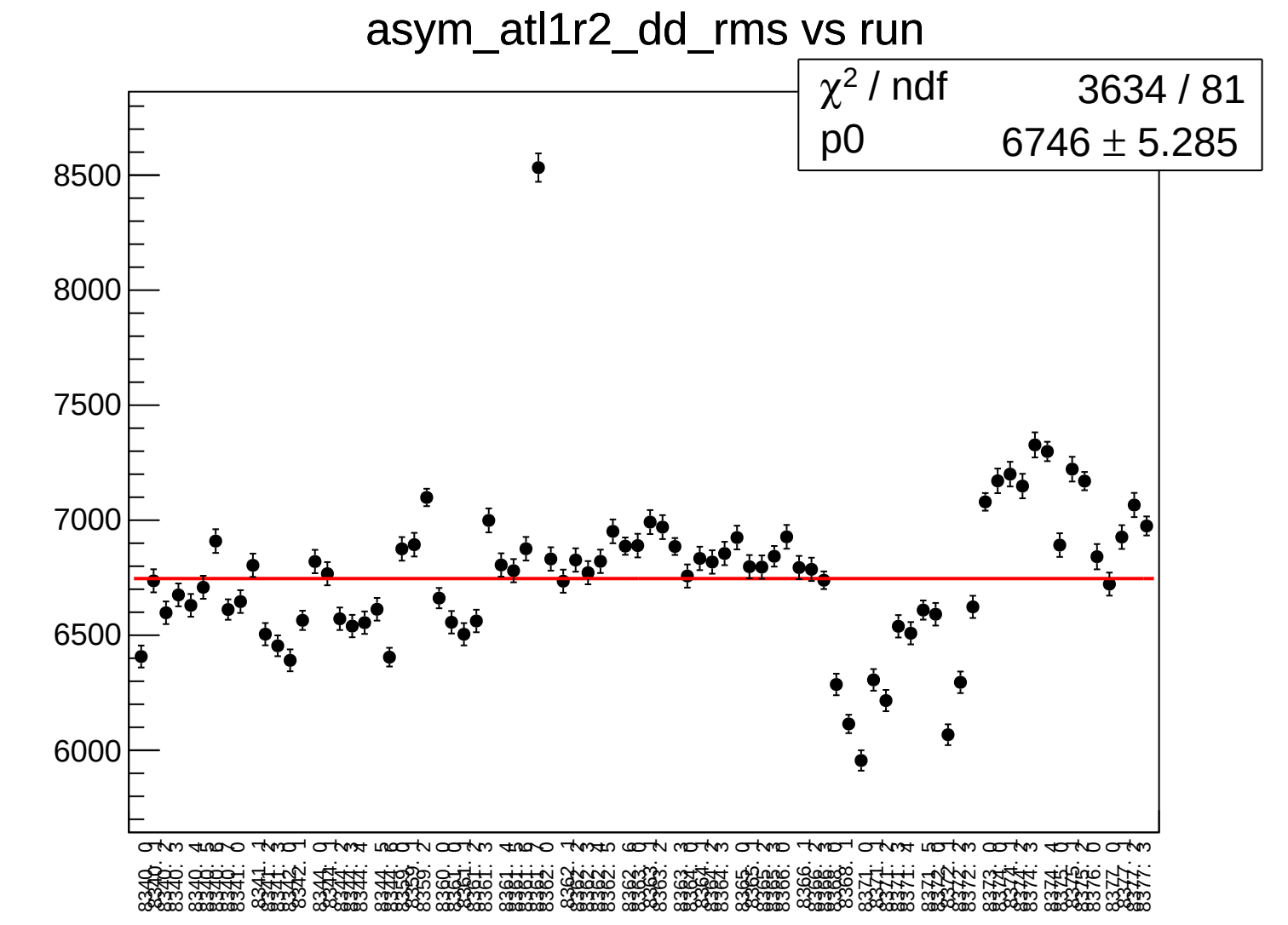

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 95.84 / 81
p0 1.158e+04 ± 7159
200
100
0
−100
−200
pull
Entries 82
Mean −28.39
Std Dev 64.08
3
2
1
0
−1
−2

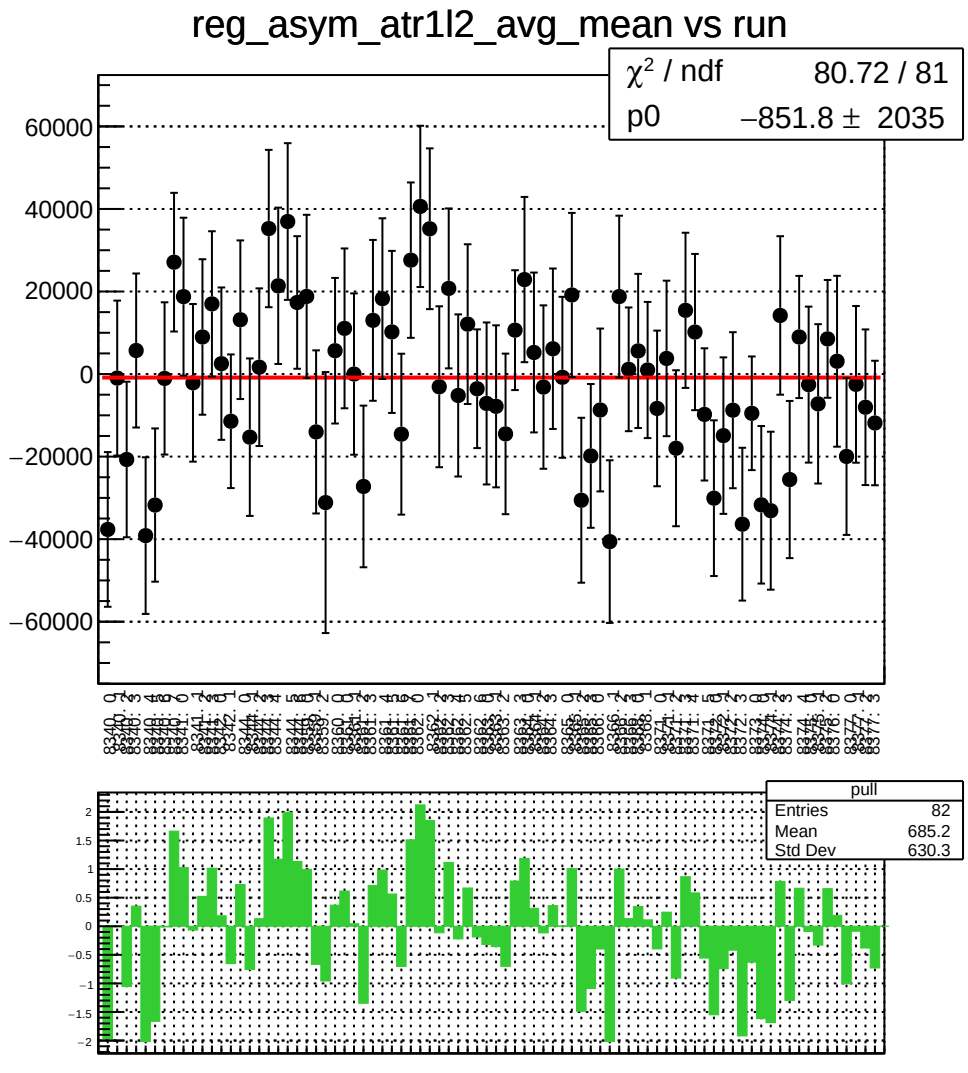

pull1D
Entries 82
Mean −0.0325
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

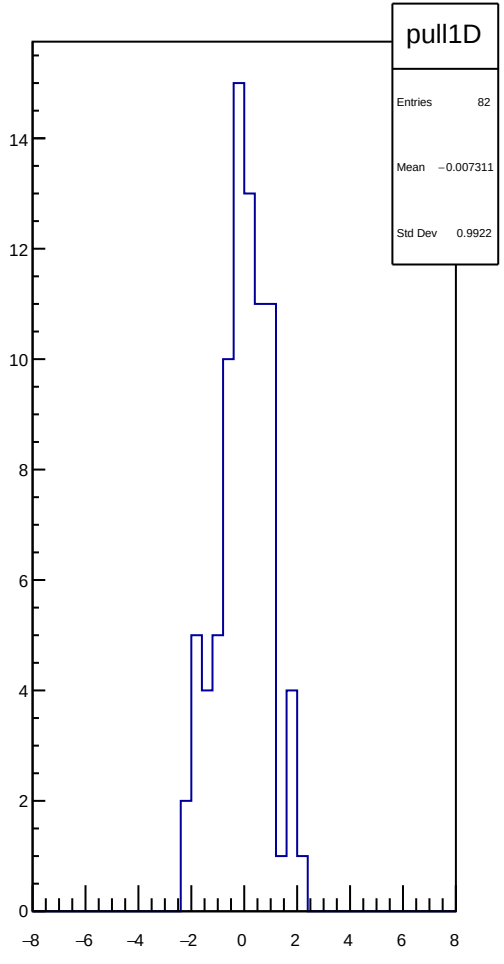

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 3211 / 81
p0 6463 ± 5.062
7200
7000
6800
6600
6400
6200
6000
5800
5600

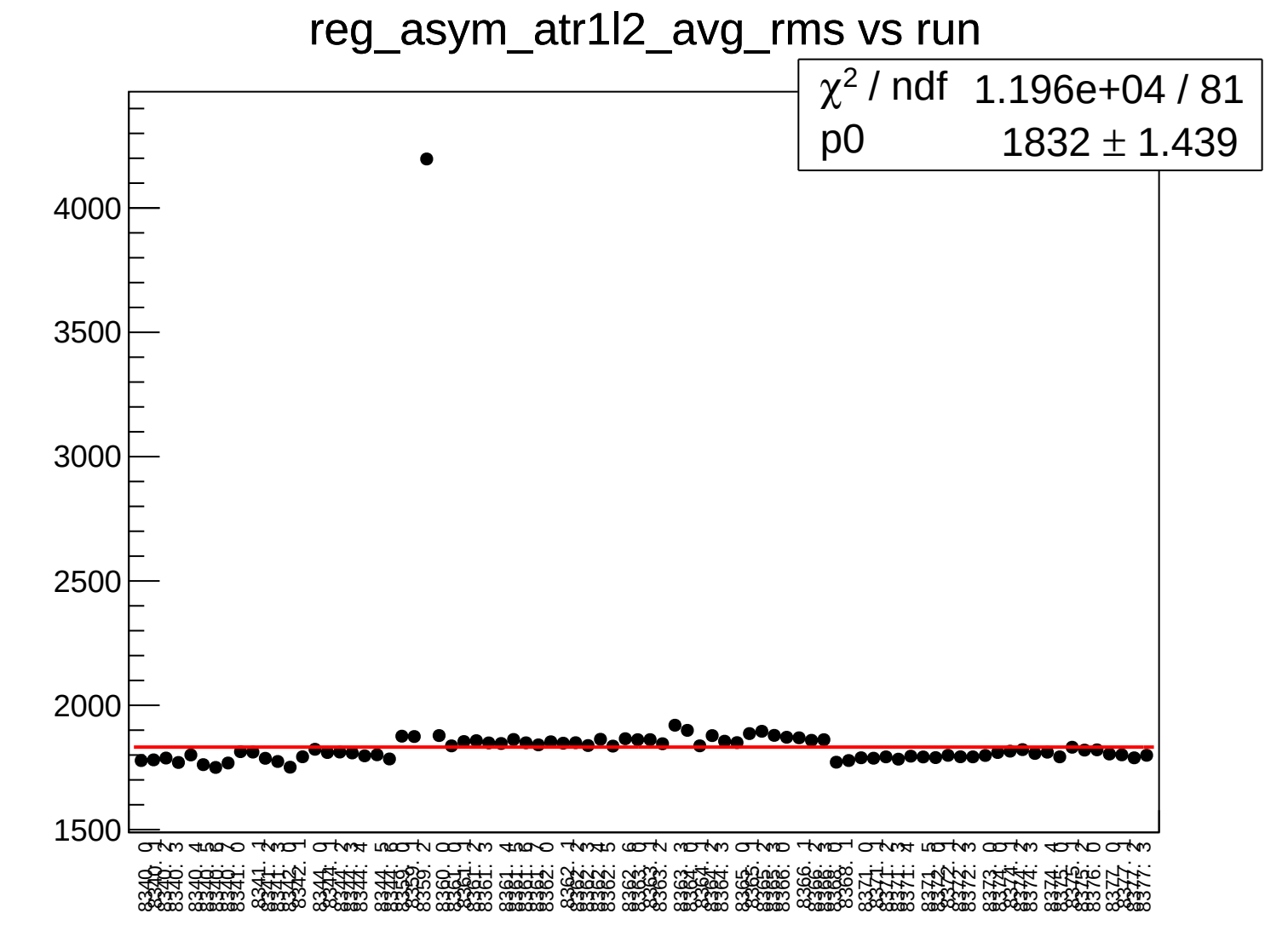

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 90.32 / 81
p0 −1.43e+04 ± 7474
200
100
0
−100
−200
pull
Entries 82
Mean −36.76
Std Dev 74.25
2
1
0
−1
−2

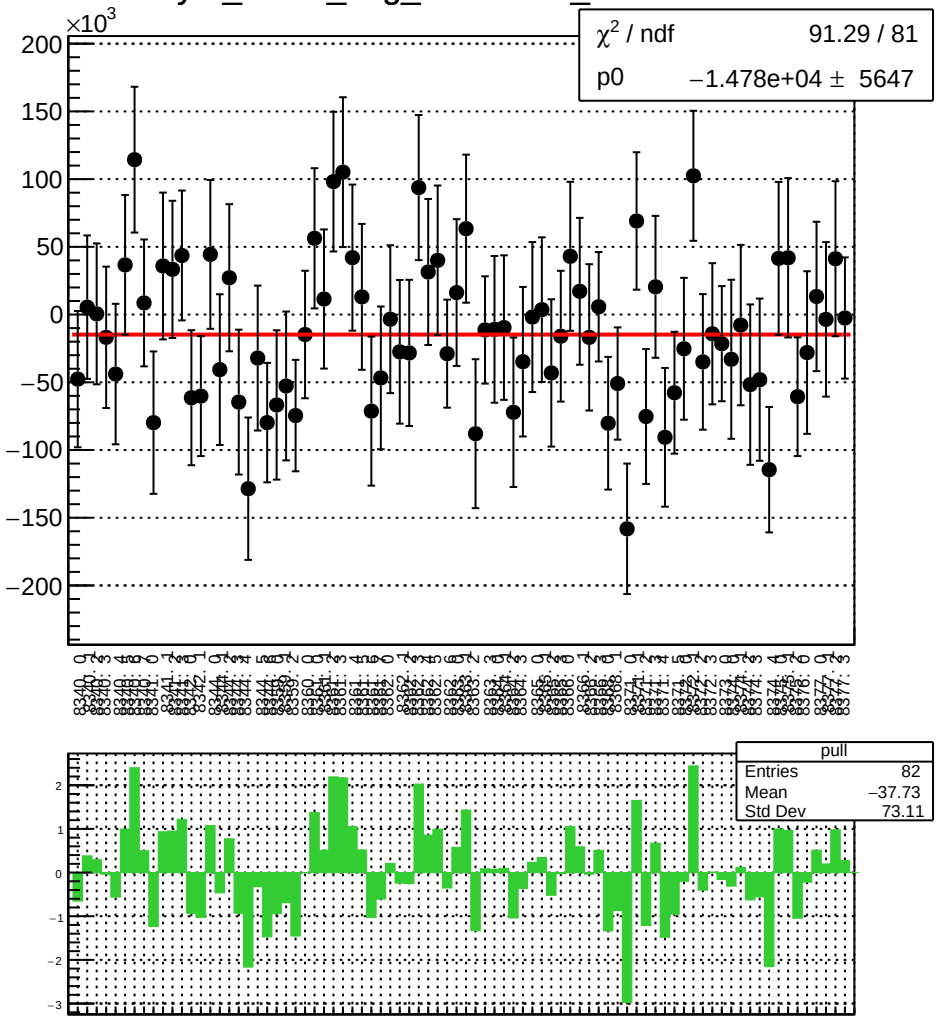

pull1D
Entries 82
Mean 0.02843
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

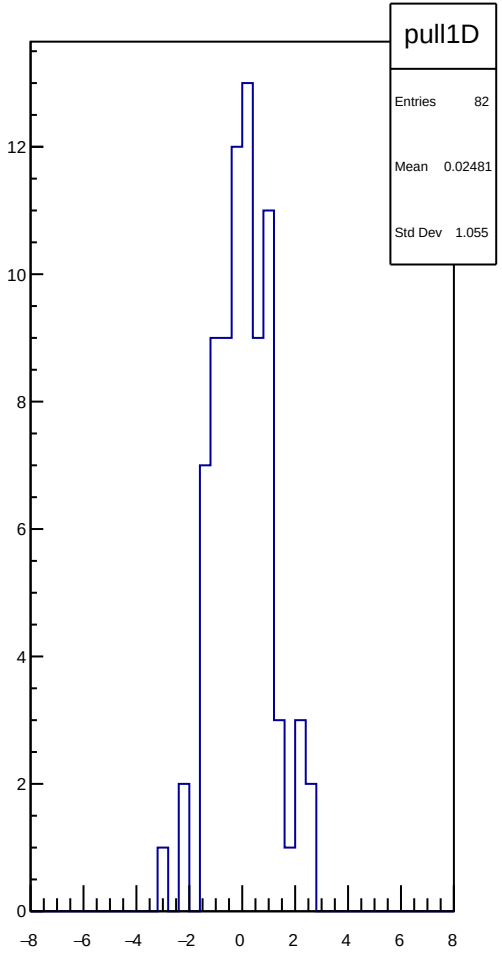

asym_atl1r2_dd_rms vs run
χ^2 / ndf 3634 / 81
p0 6746 ± 5.285
8500
8000
7500
7000
6500
6000

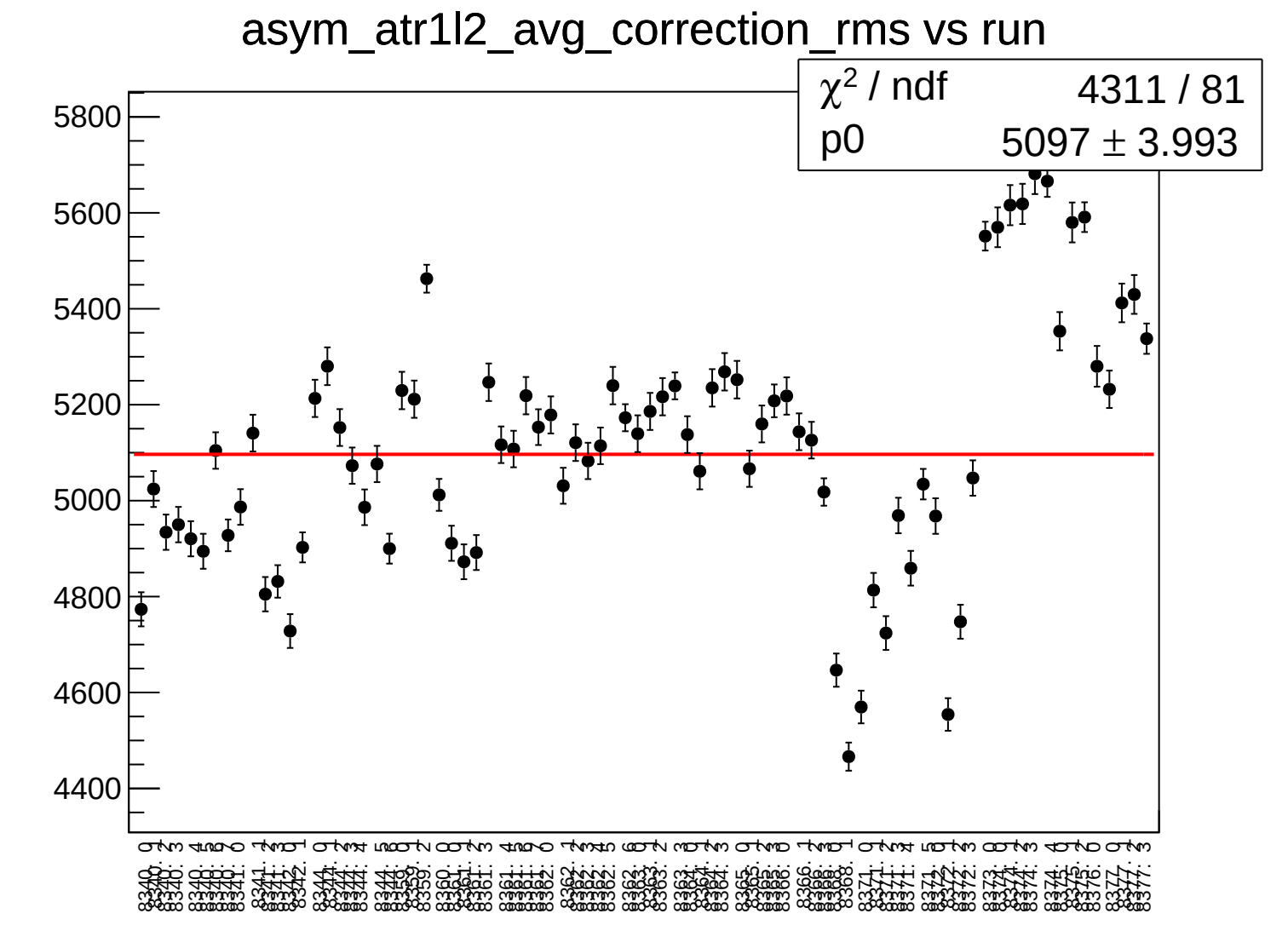

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 80.72 / 81
p0 −851.8 ± 2035
pull
Entries 82
Mean 685.2
Std Dev 630.3

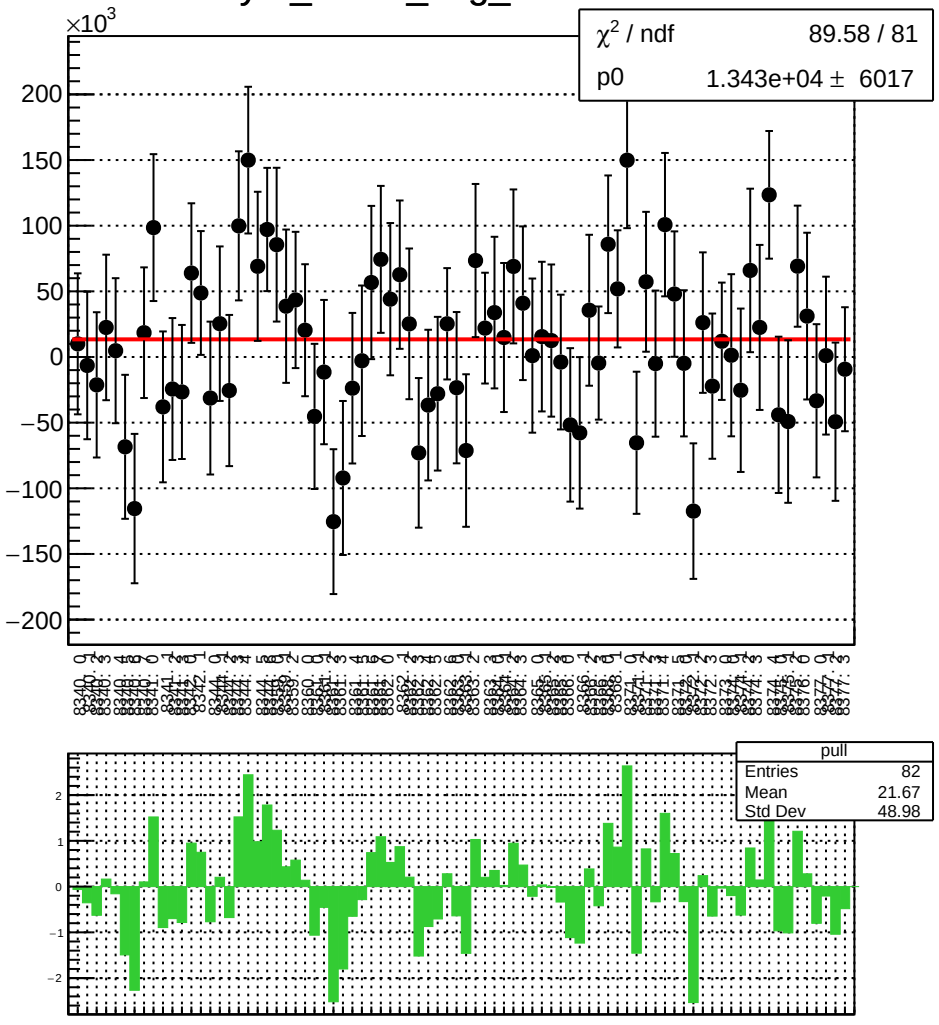

pull1D
Entries 82
Mean −0.007311
Std Dev 0.9922

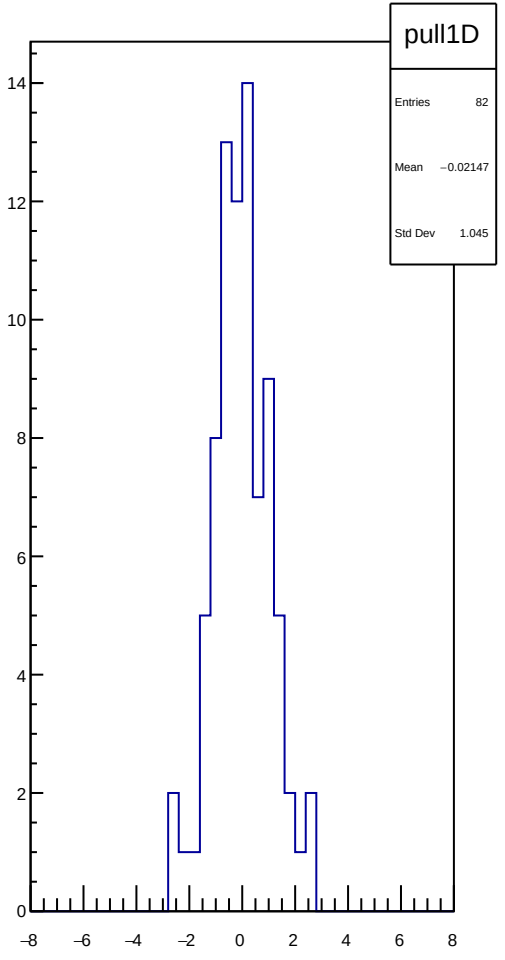

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 1.196e+04 / 81
p0 1832 ± 1.439
4000
3500
3000
2500
2000
1500

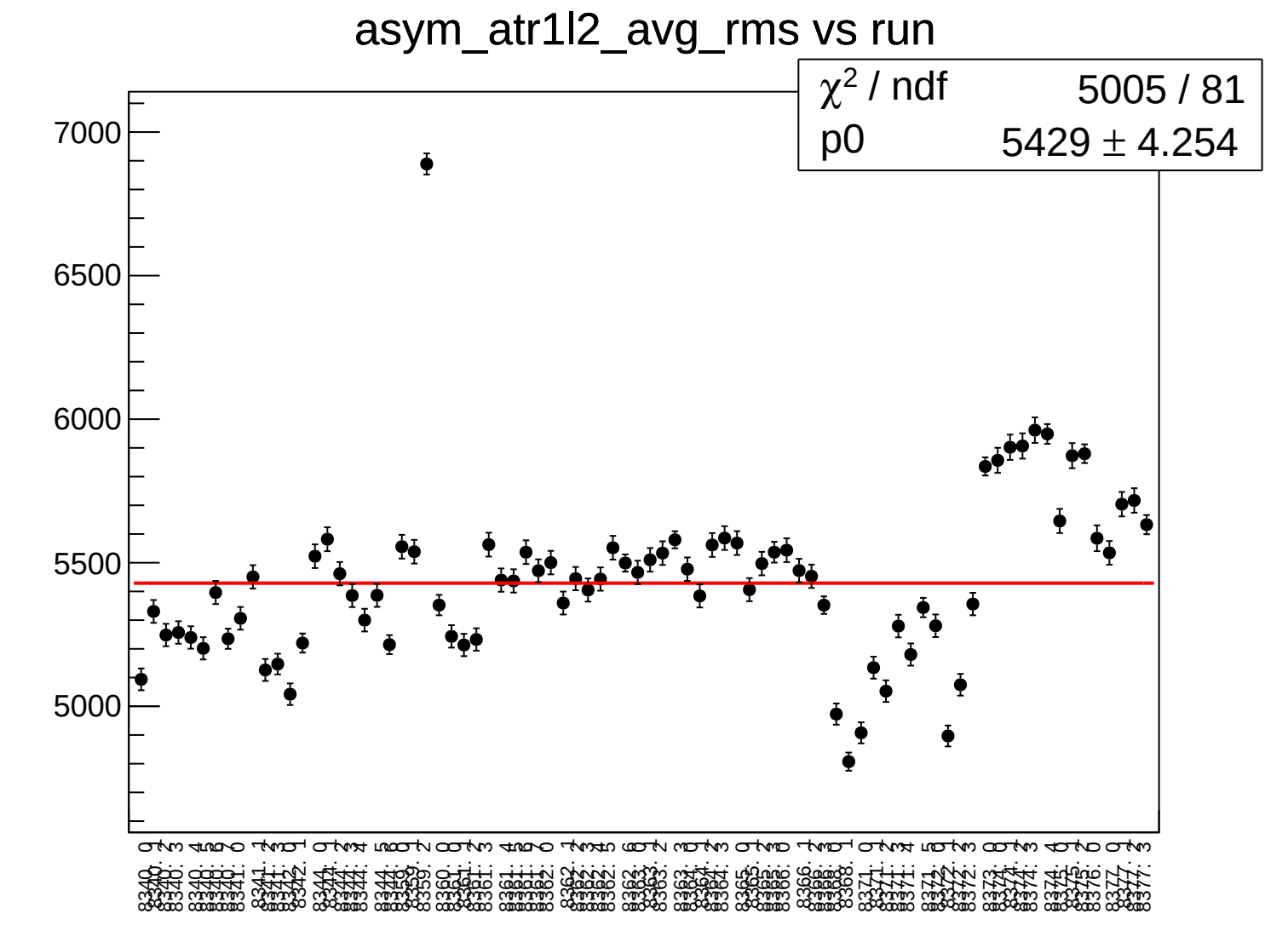

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 91.29 / 81
p0 −1.478e+04 ± 5647
pull
Entries 82
Mean −37.73
Std Dev 73.11

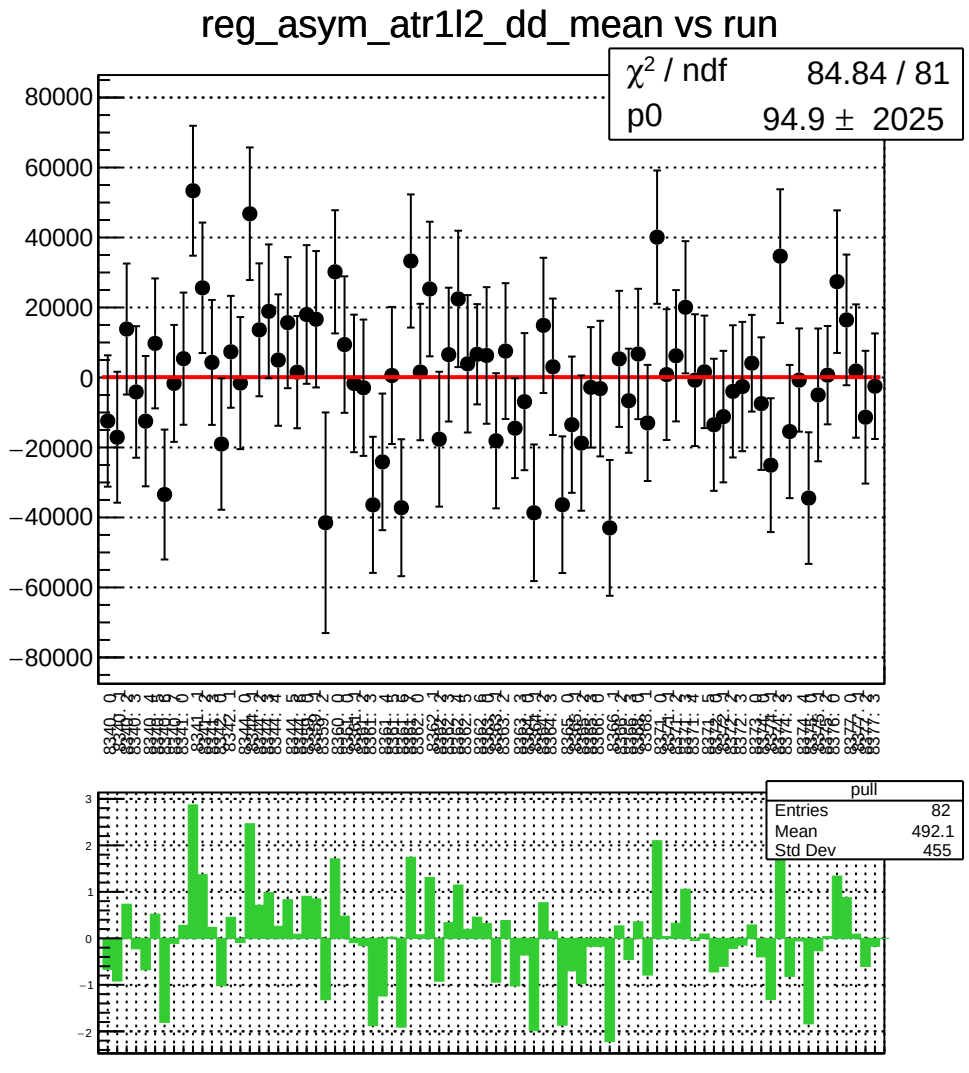

pull1D
Entries 82
Mean 0.02481
Std Dev 1.055

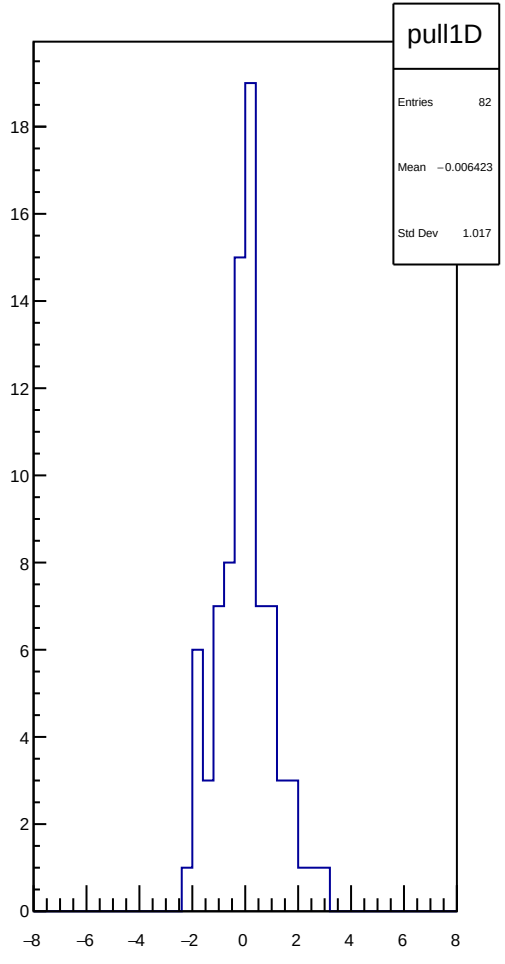

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 4311 / 81
p0 5097 ± 3.993
5800
5600
5400
5200
5000
4800
4600
4400

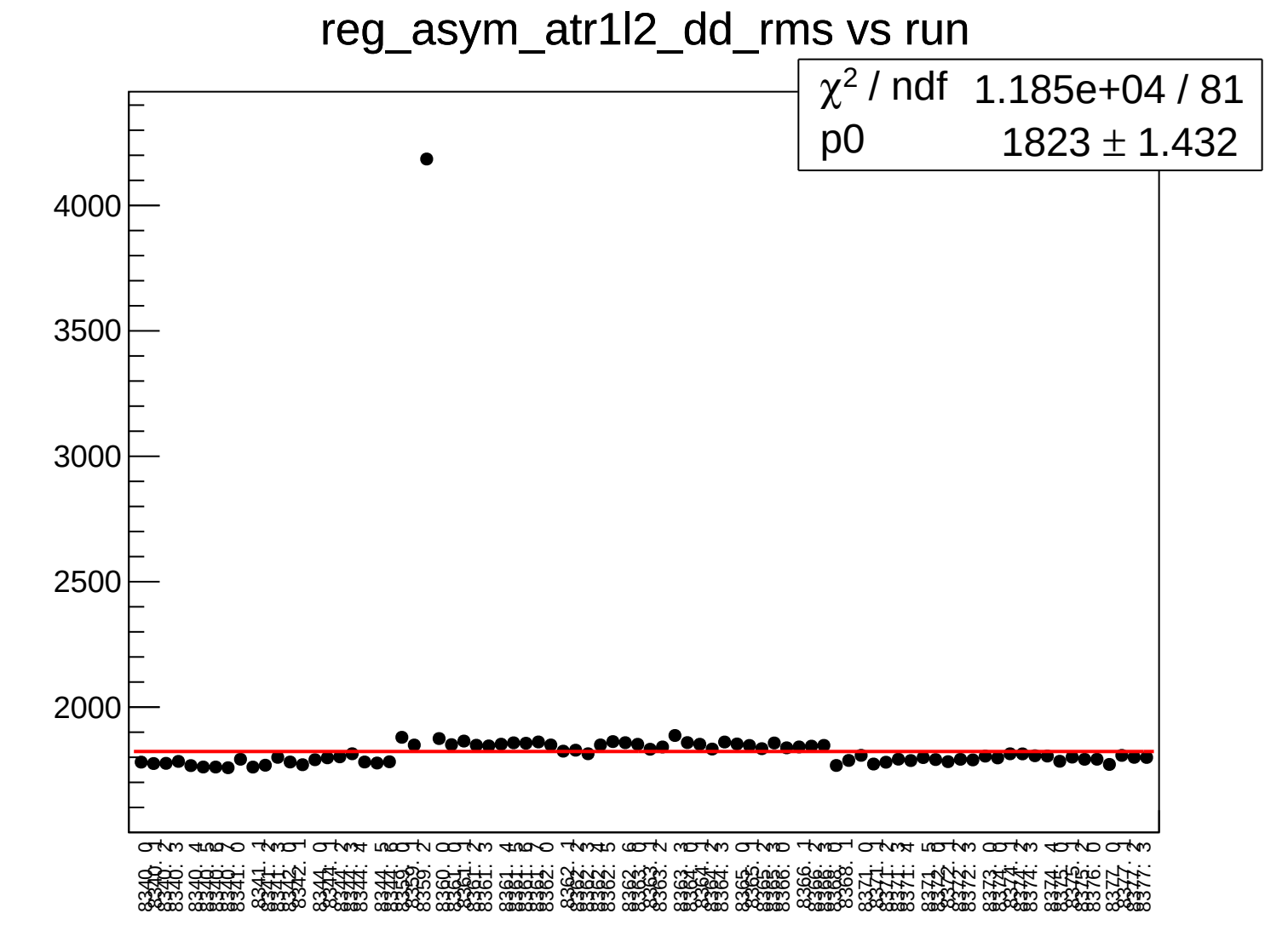

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 89.58 / 81
p0 1.343e+04 ± 6017
pull
Entries 82
Mean 21.67
Std Dev 48.98

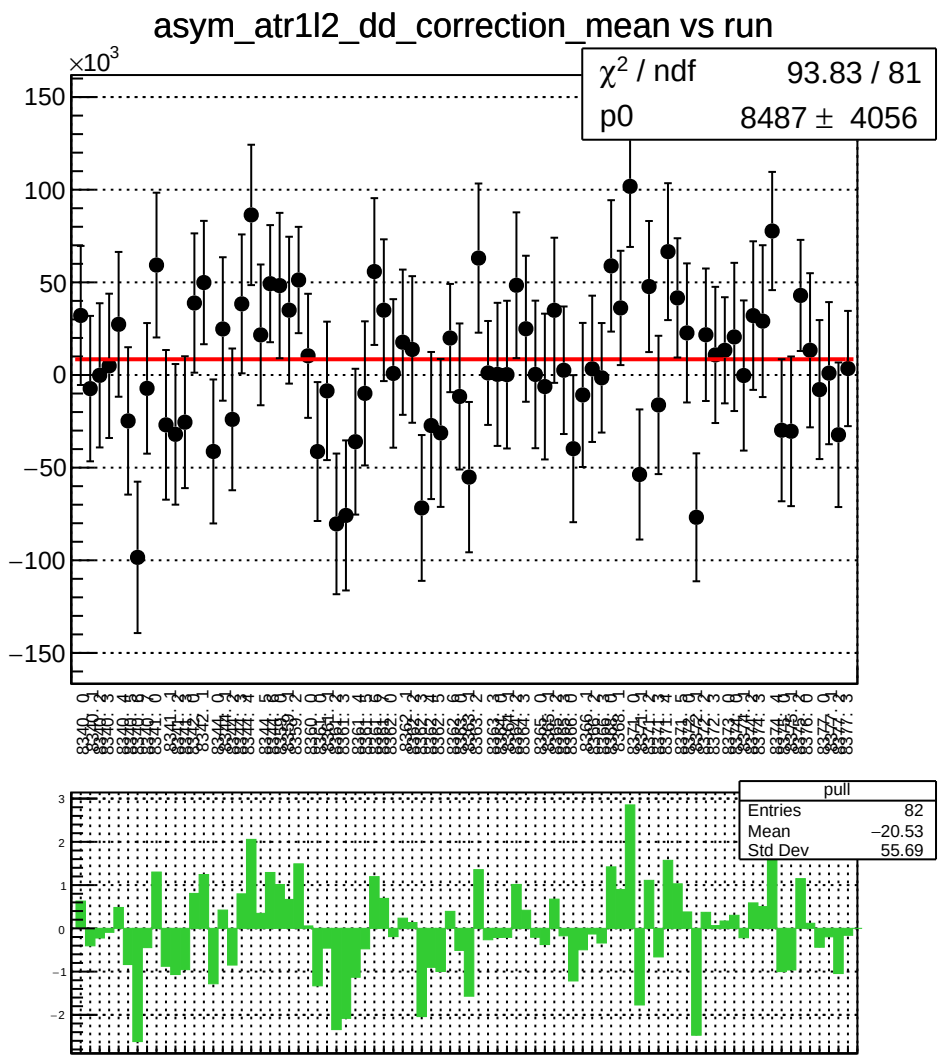

pull1D
Entries 82
Mean −0.02147
Std Dev 1.045

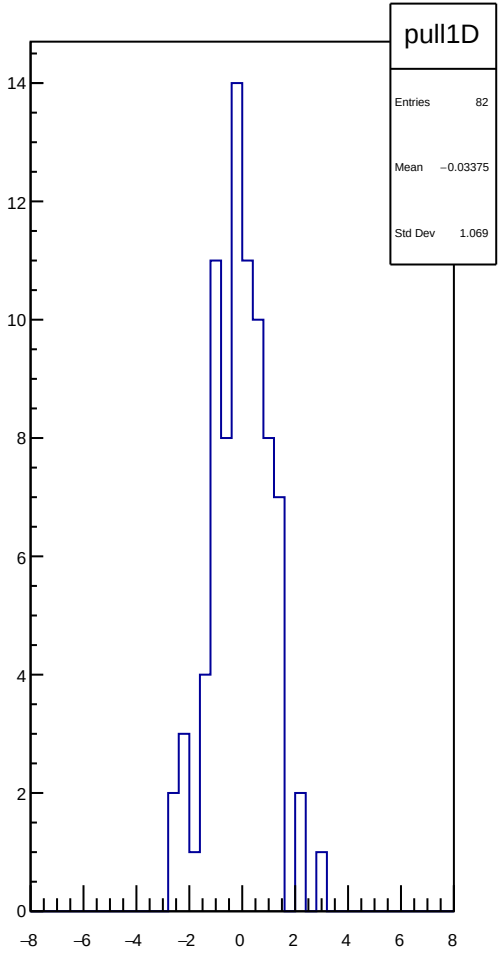

asym_atr1l2_avg_rms vs run
χ^2 / ndf 5005 / 81
p0 5429 ± 4.254
7000
6500
6000
5500
5000

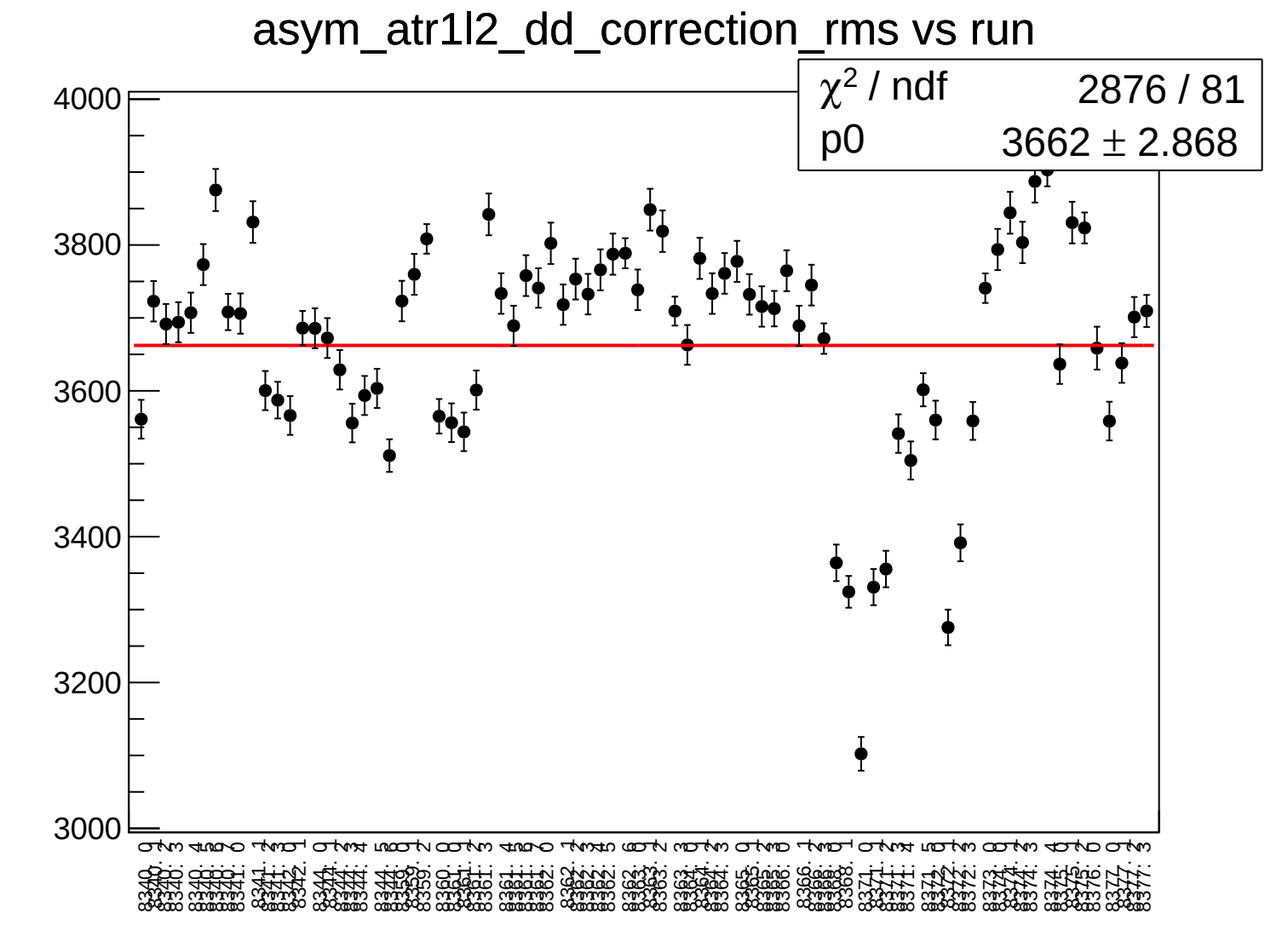

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 84.84 / 81
p0 94.9 ± 2025
pull
Entries 82
Mean 492.1
Std Dev 455

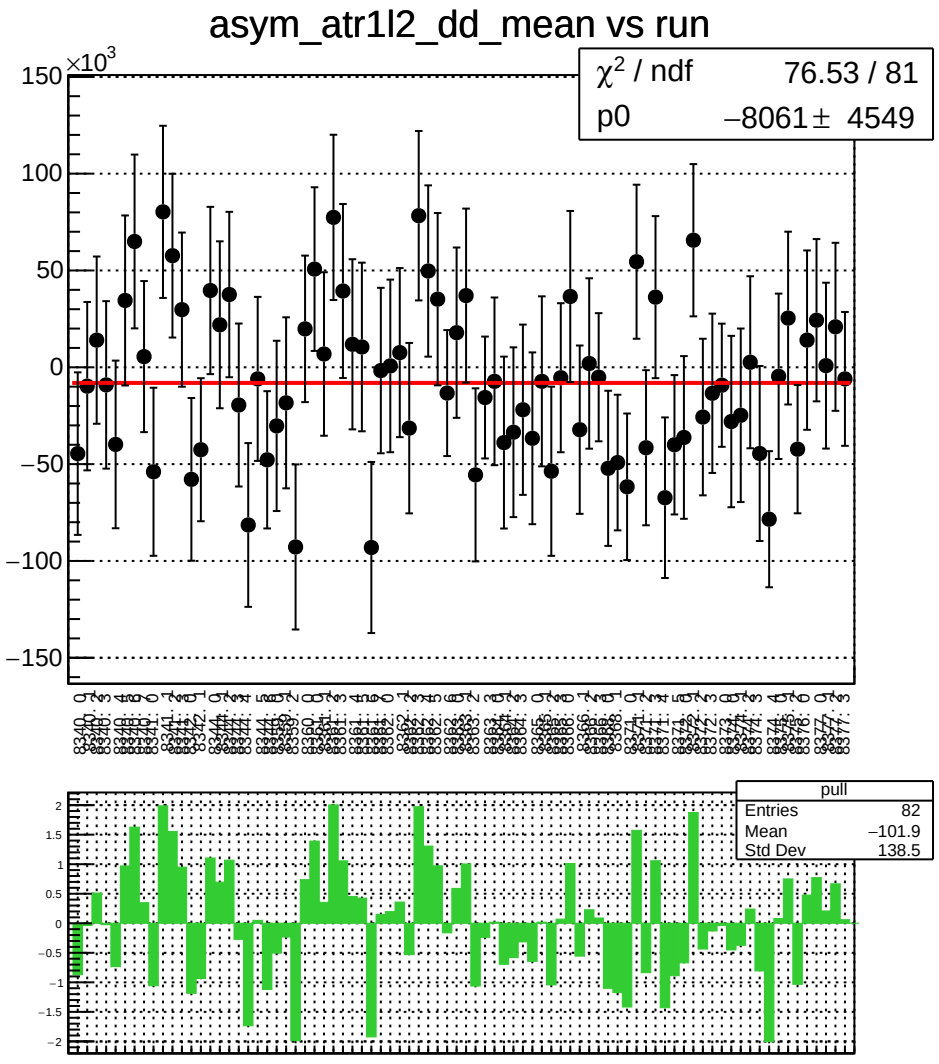

pull1D
Entries 82
Mean −0.006423
Std Dev 1.017

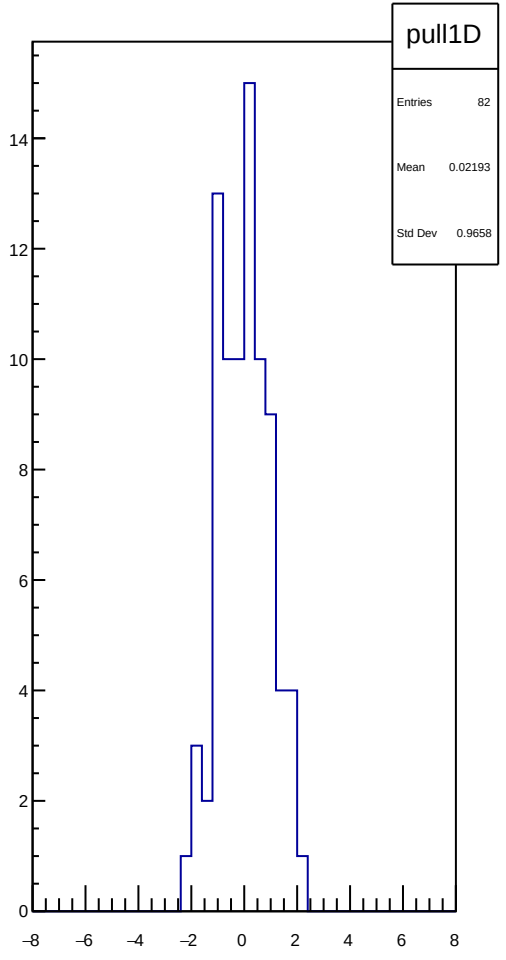

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 1.185e+04 / 81
p0 1823 ± 1.432
4000
3500
3000
2500
2000

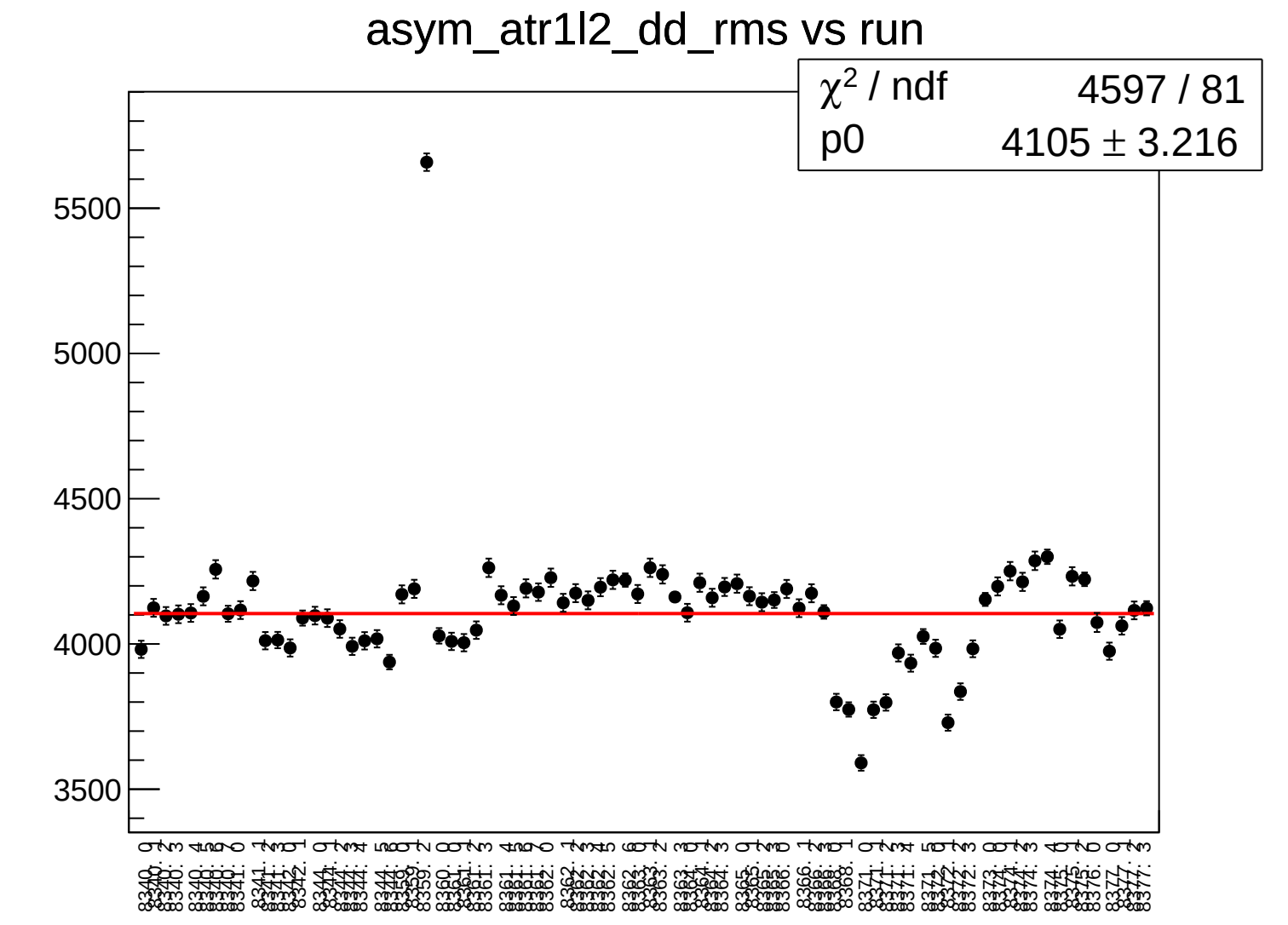

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 93.83 / 81
p0 8487 ± 4056
pull
Entries 82
Mean −20.53
Std Dev 55.69

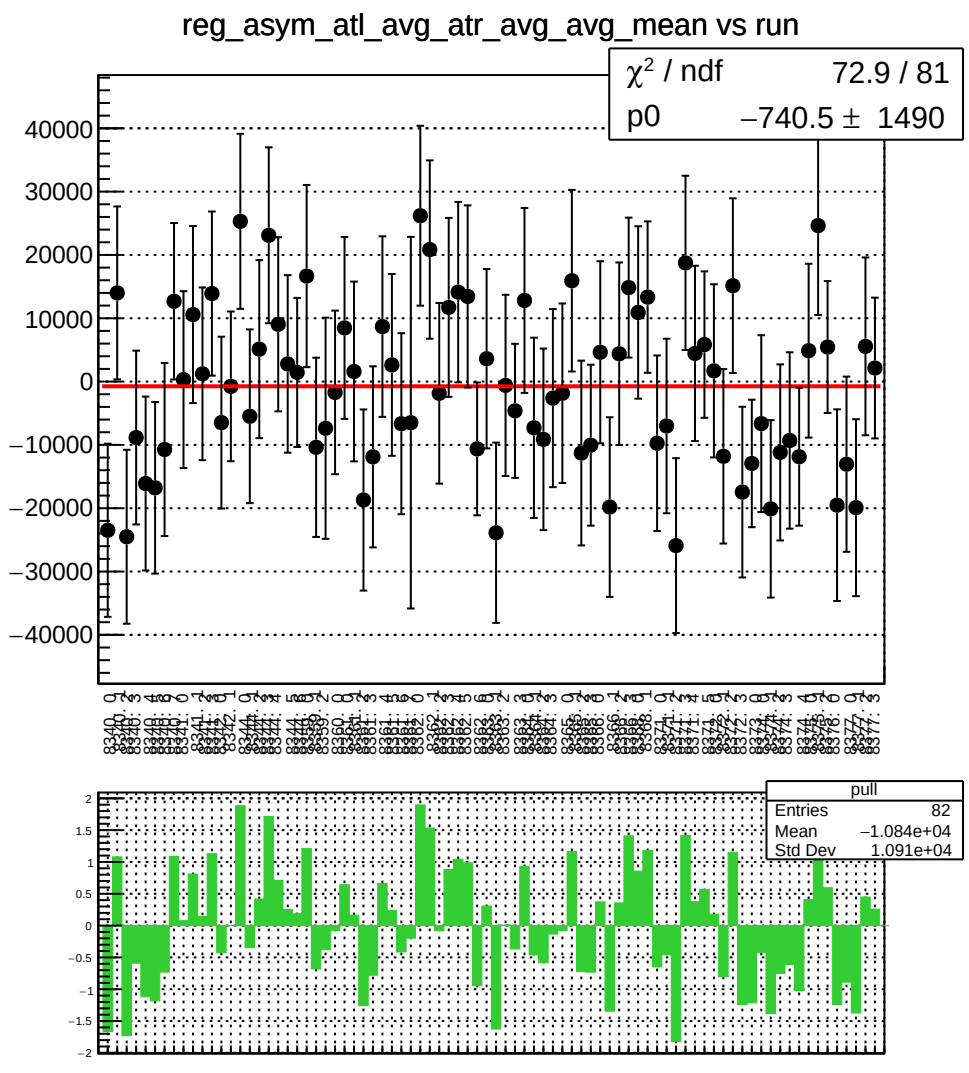

pull1D
Entries 82
Mean −0.03375
Std Dev 1.069

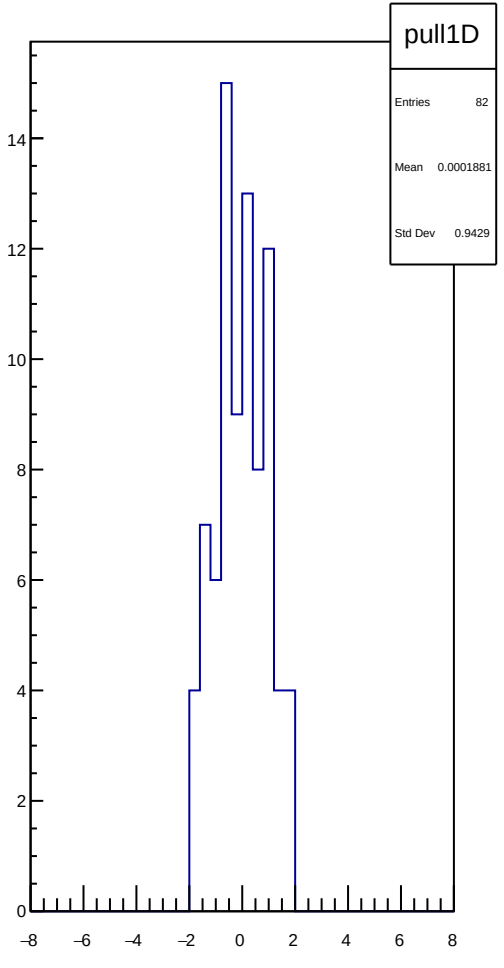

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 2876 / 81
p0 3662 ± 2.868
4000
3800
3600
3400
3200
3000

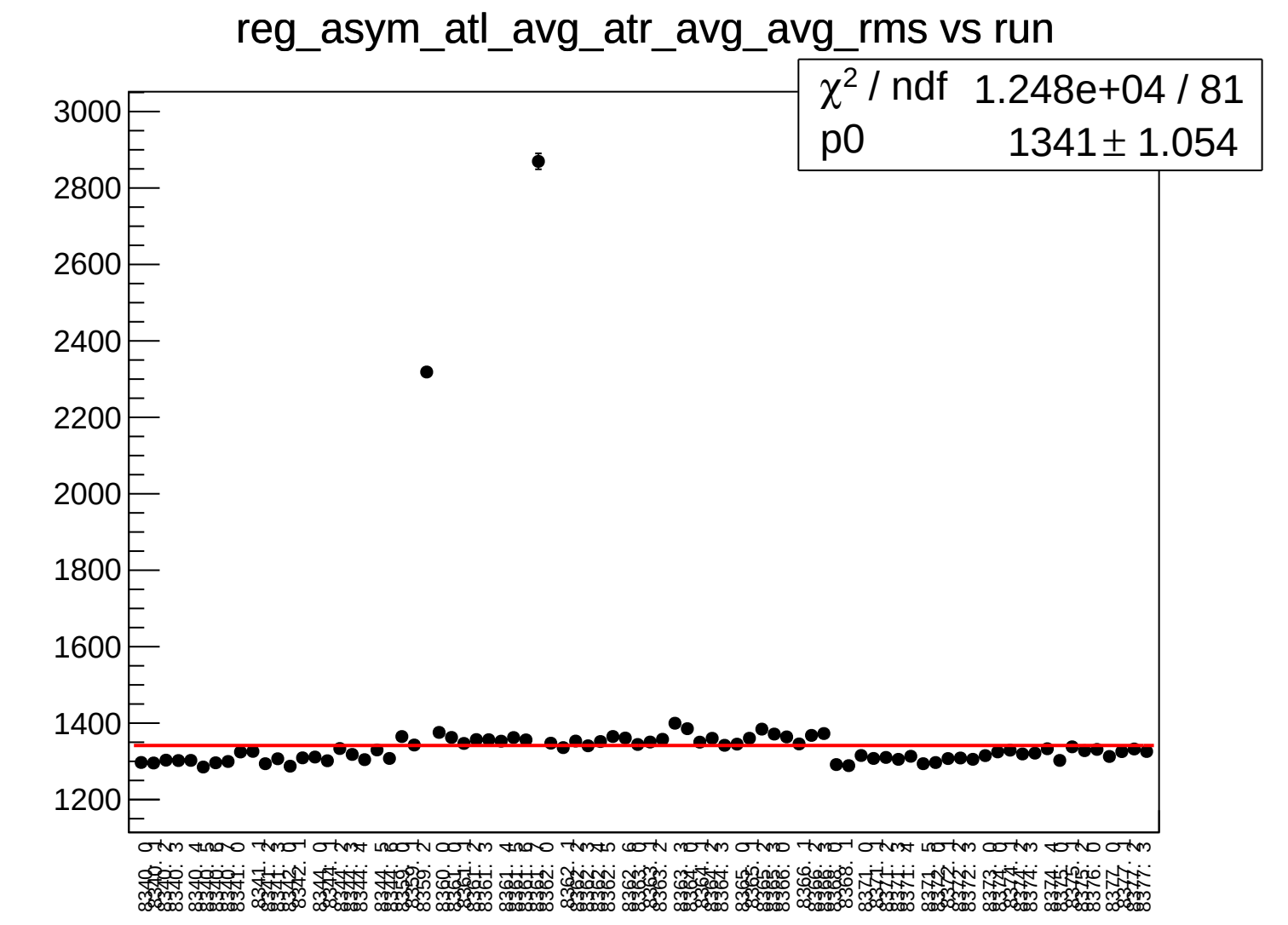

asym_atr1l2_dd_mean vs run
χ² / ndf 76.53 / 81
p0 −8061 ± 4549
×10³
pull
Entries 82
Mean −101.9
Std Dev 138.5

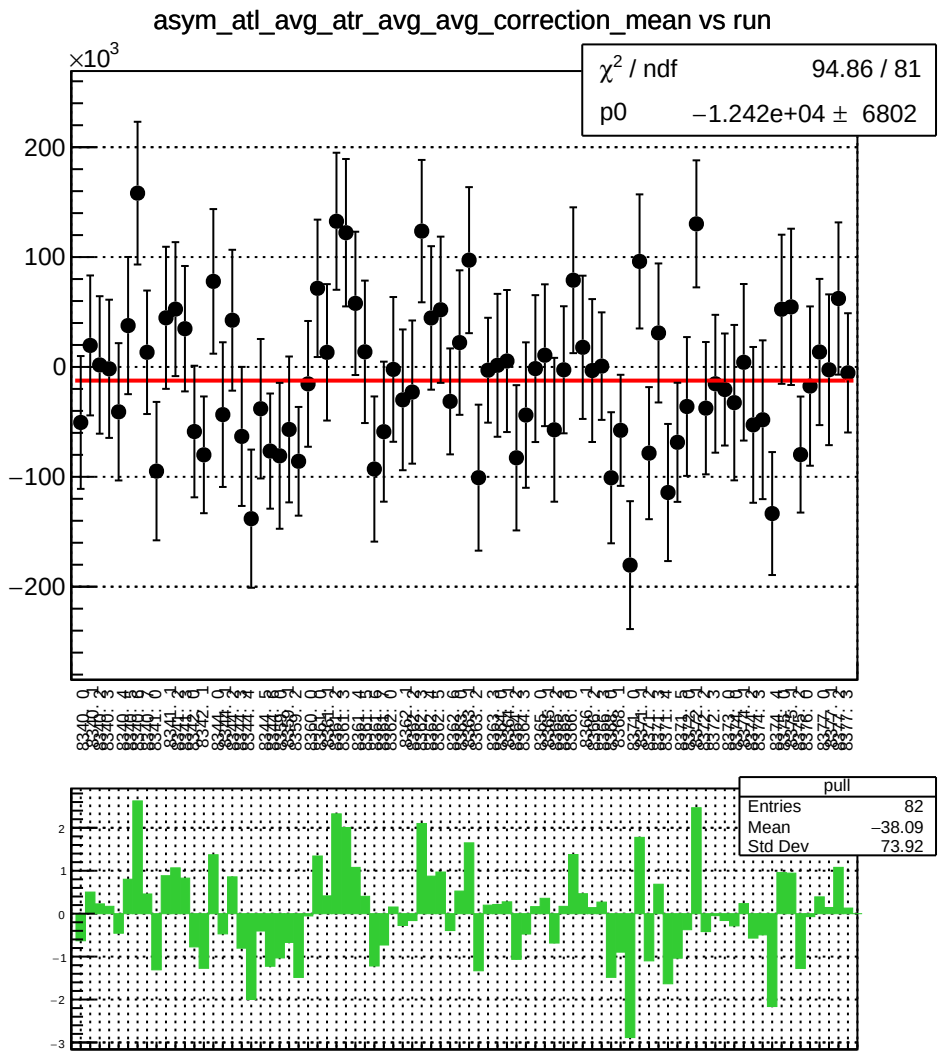

pull1D
Entries 82
Mean 0.02193
Std Dev 0.9658

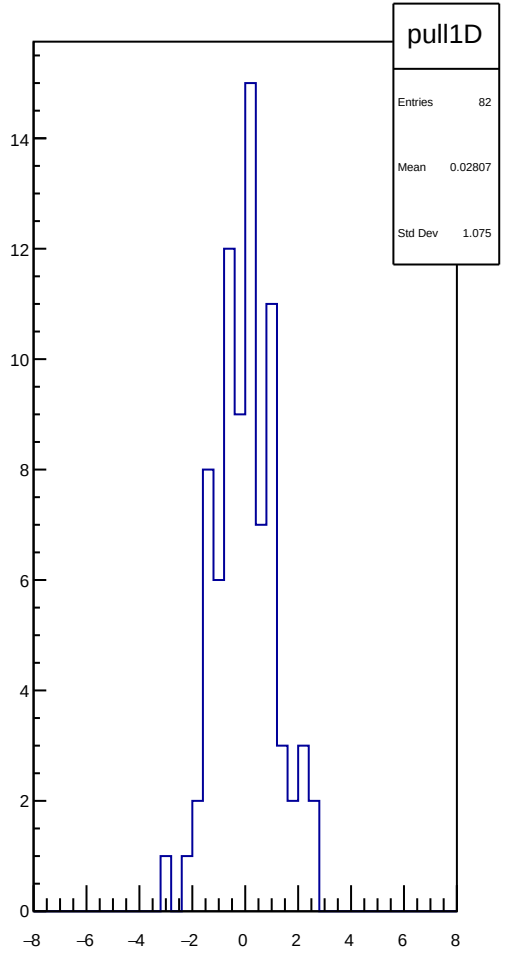

asym_atr1l2_dd_rms vs run
χ² / ndf 4597 / 81
p0 4105 ± 3.216
5500
5000
4500
4000
3500

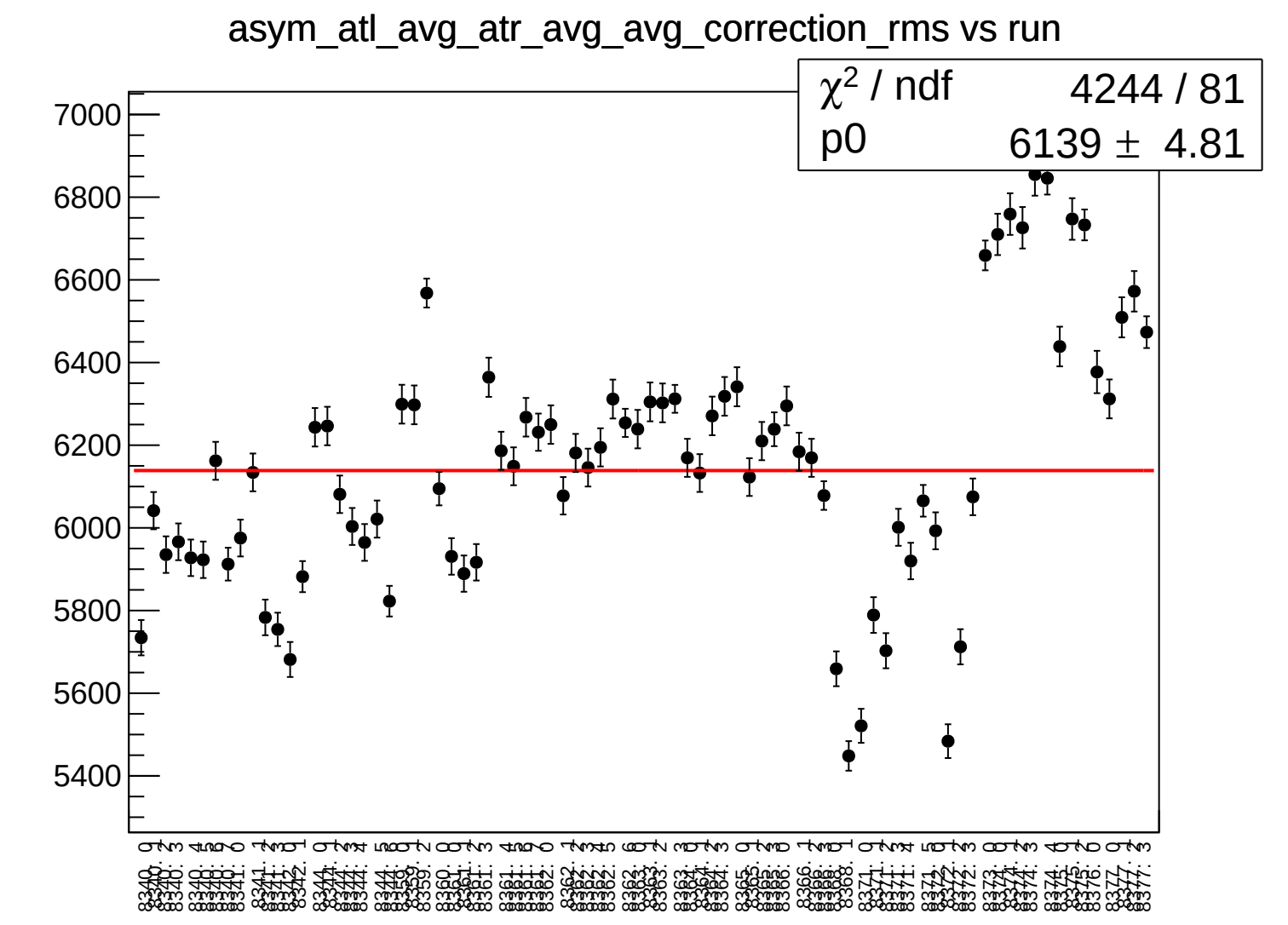

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 72.9 / 81
p0 −740.5 ± 1490
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean −1.084e+04
Std Dev 1.091e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

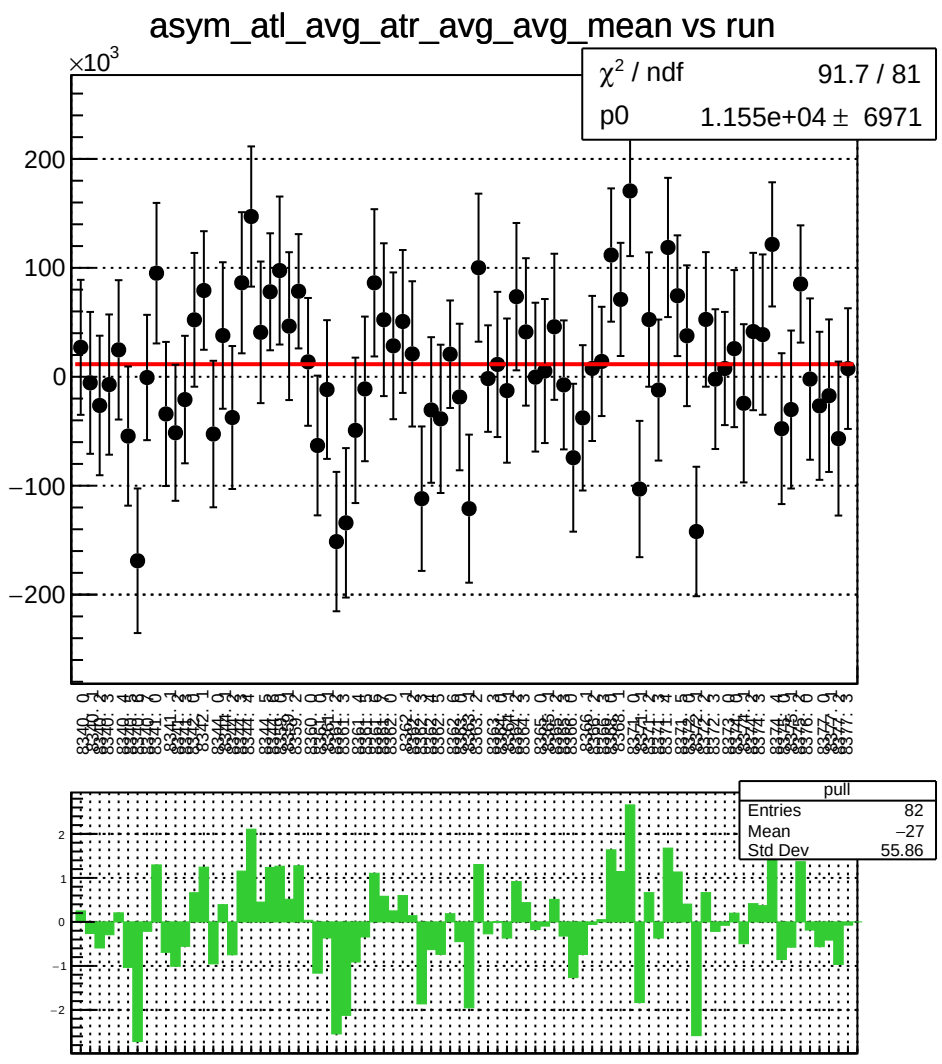

pull1D
Entries 82
Mean 0.0001881
Std Dev 0.9429
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

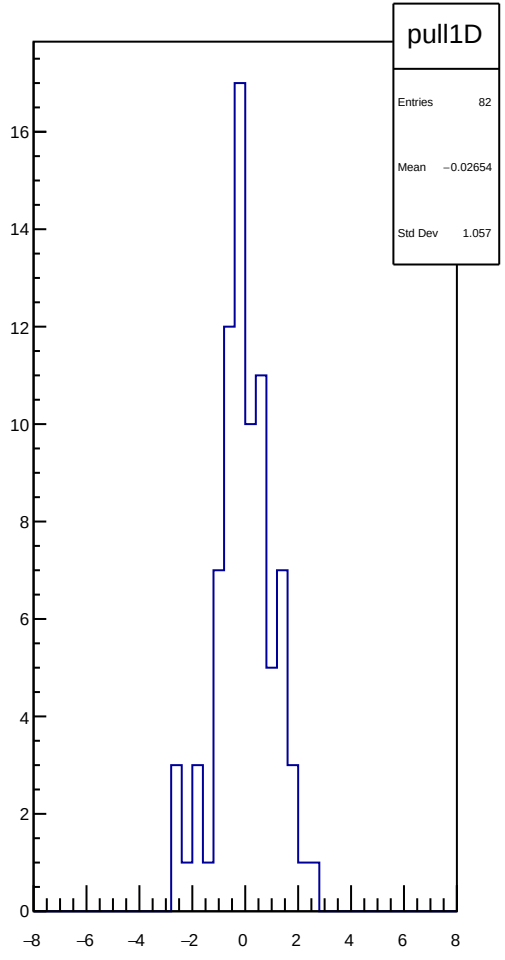

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.248e+04 / 81
p0 1341 ± 1.054
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

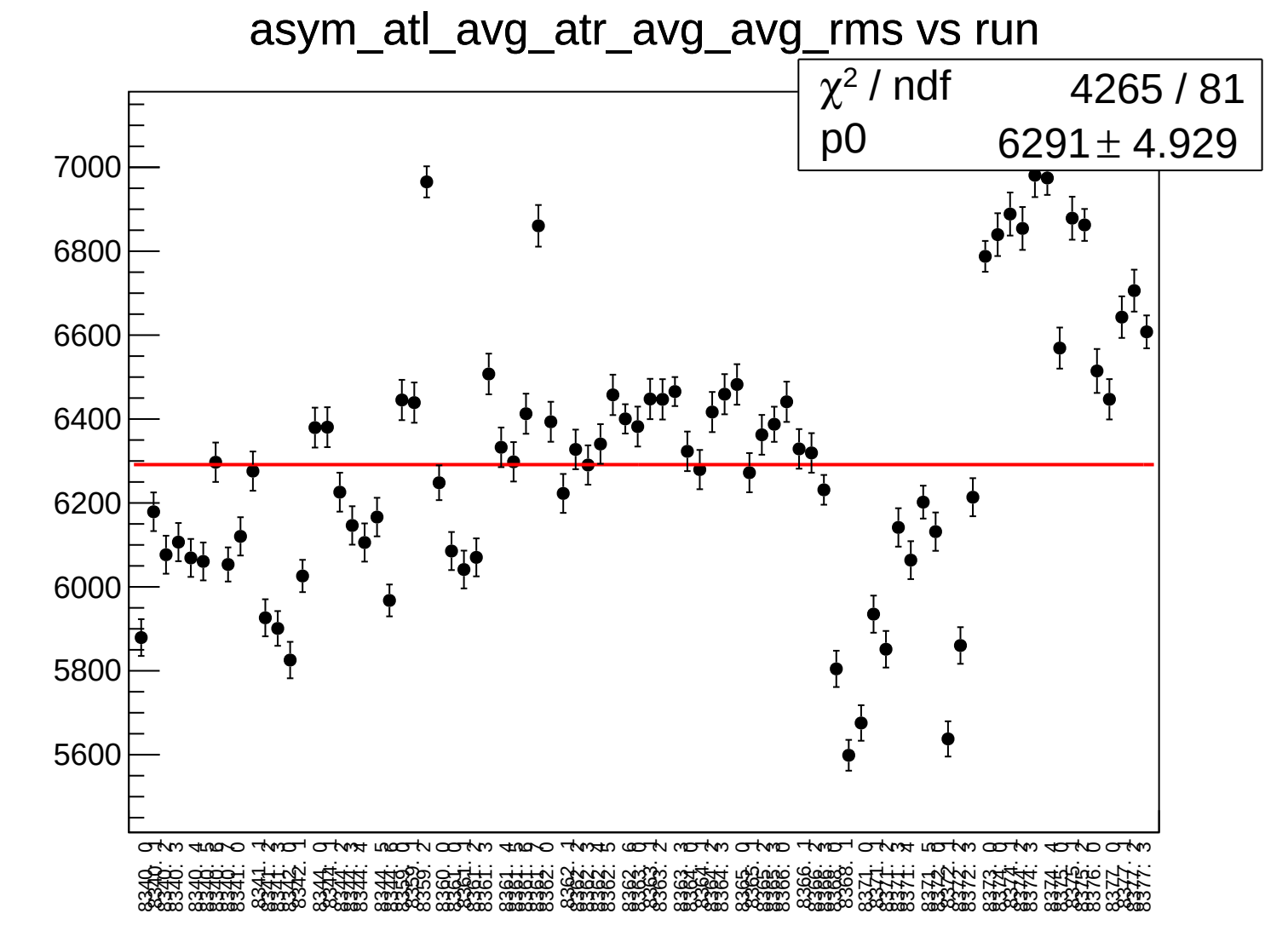

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 94.86 / 81
p0 −1.242e+04 ± 6802
200
100
0
−100
−200
pull
Entries 82
Mean −38.09
Std Dev 73.92
2
1
0
−1
−2
−3

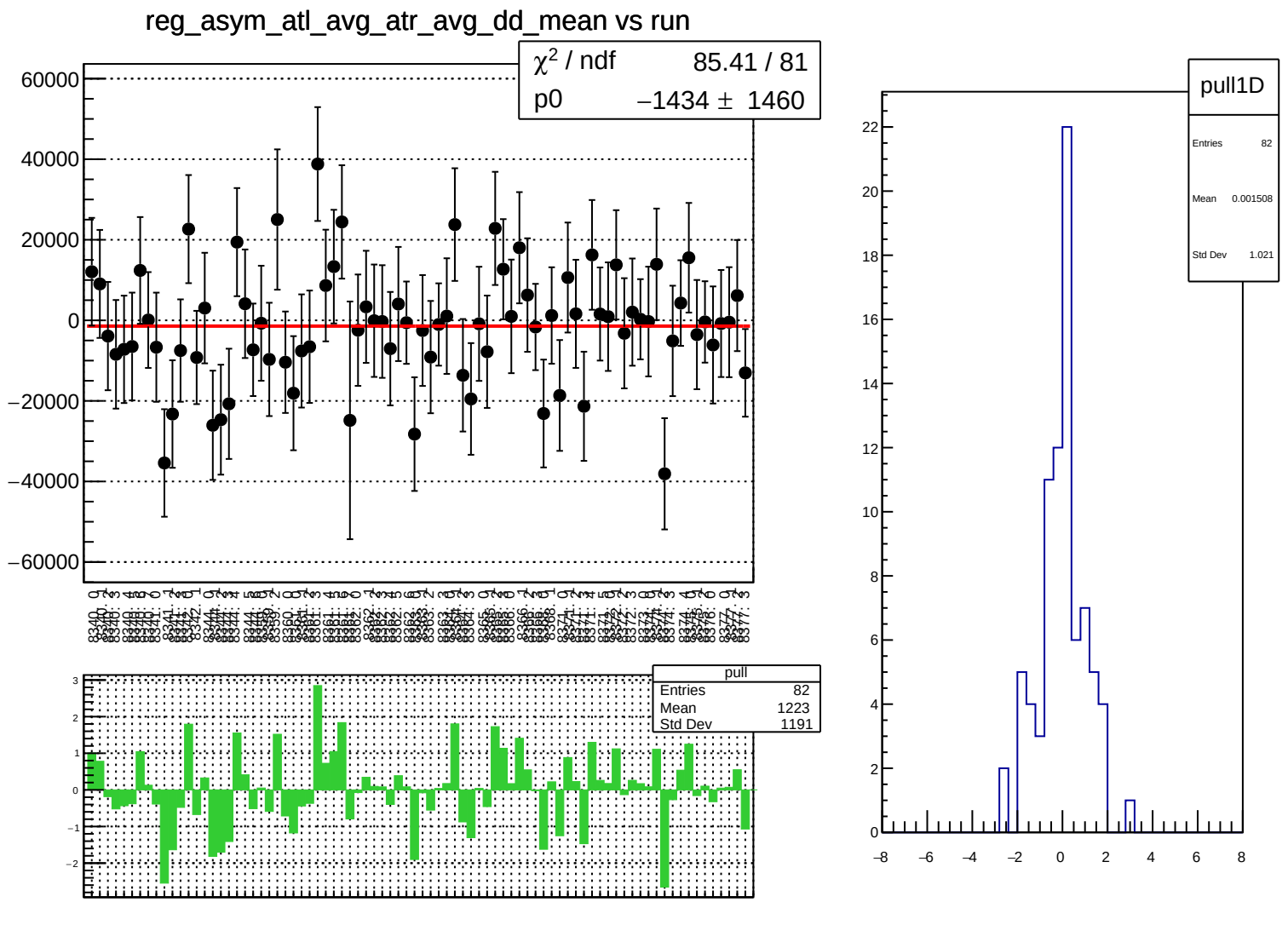

pull1D
Entries 82
Mean 0.02807
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 4244 / 81
p0 6139 ± 4.81
7000
6800
6600
6400
6200
6000
5800
5600
5400

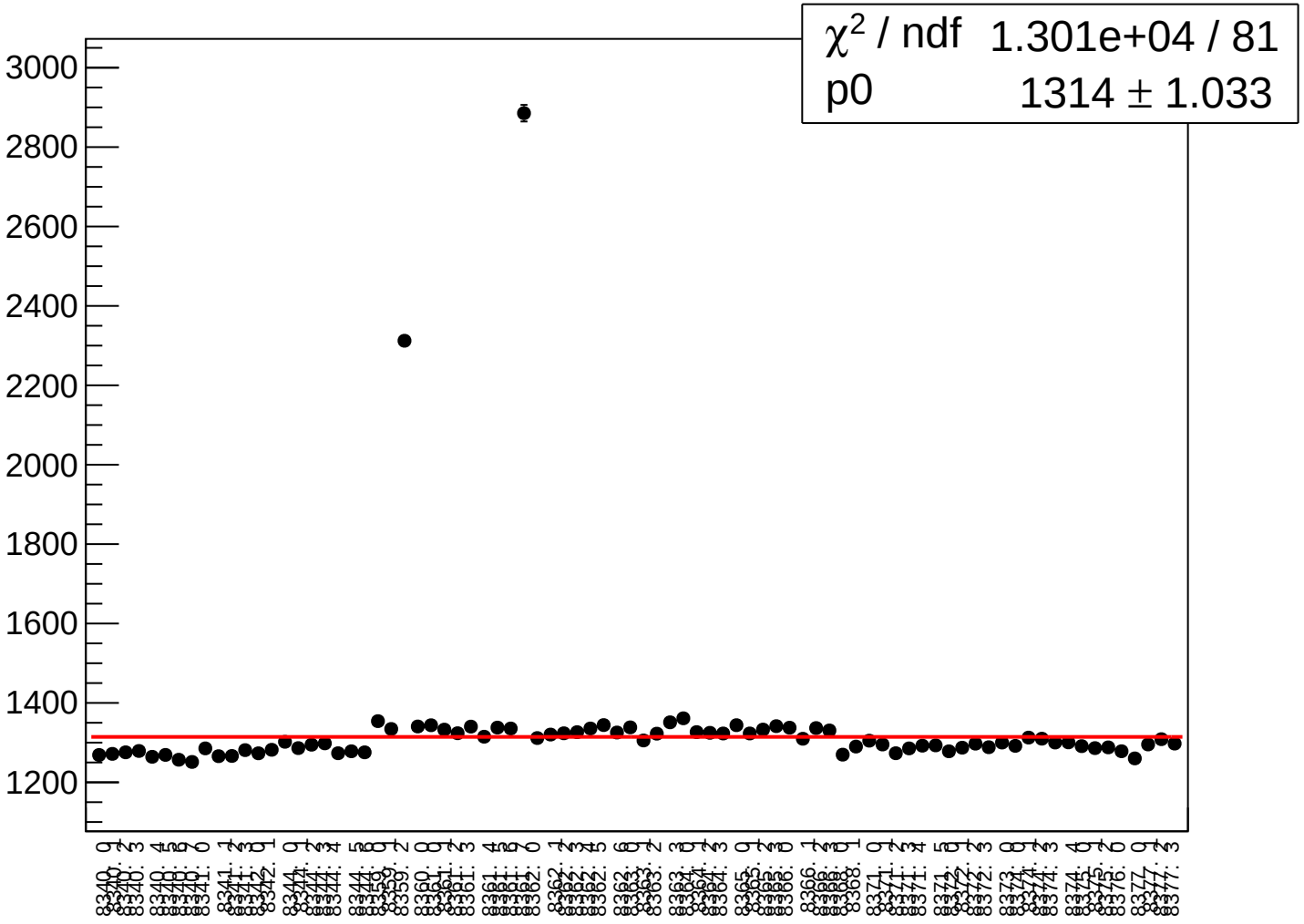

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 91.7 / 81
p0 1.155e+04 ± 6971
200
100
0
−100
−200
pull
Entries 82
Mean −27
Std Dev 55.86
2
1
0
−1
−2

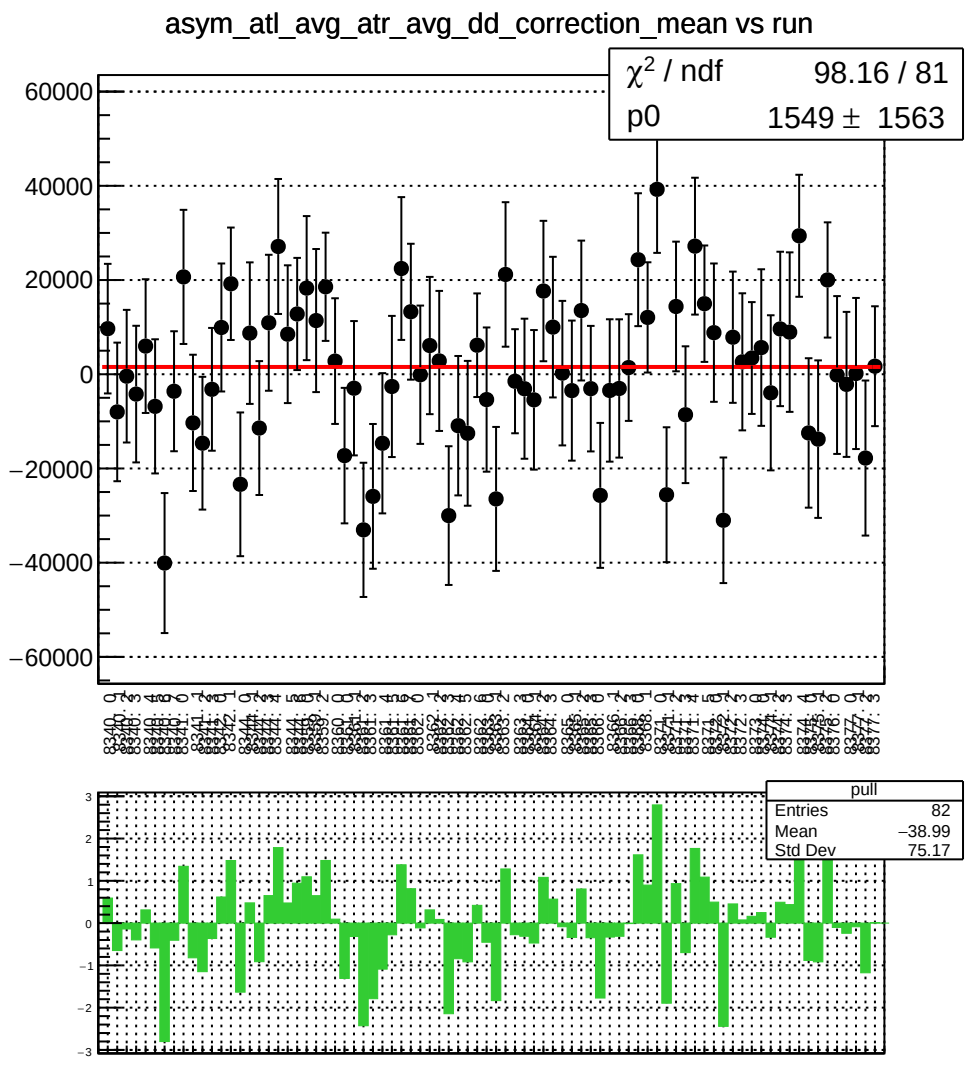

pull1D
Entries 82
Mean −0.02654
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

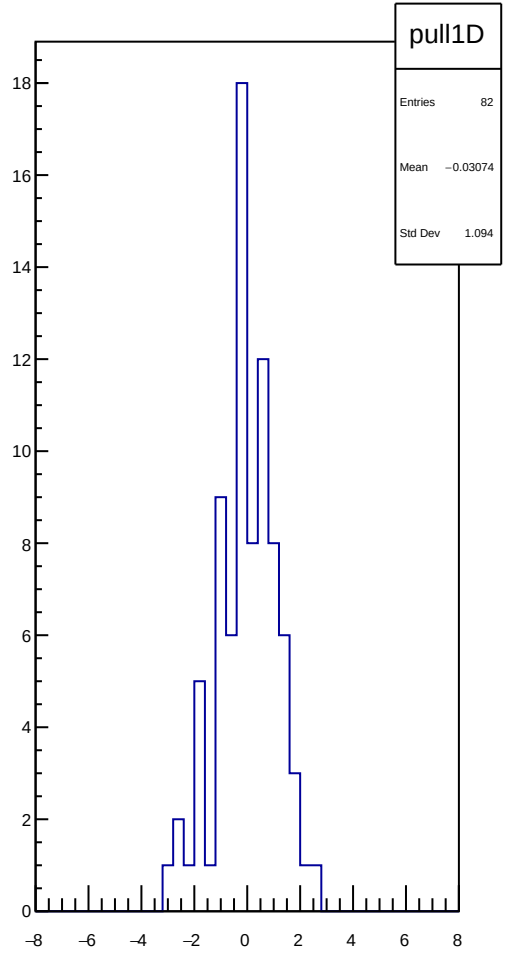

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4265 / 81
p0 6291 ± 4.929
7000
6800
6600
6400
6200
6000
5800
5600

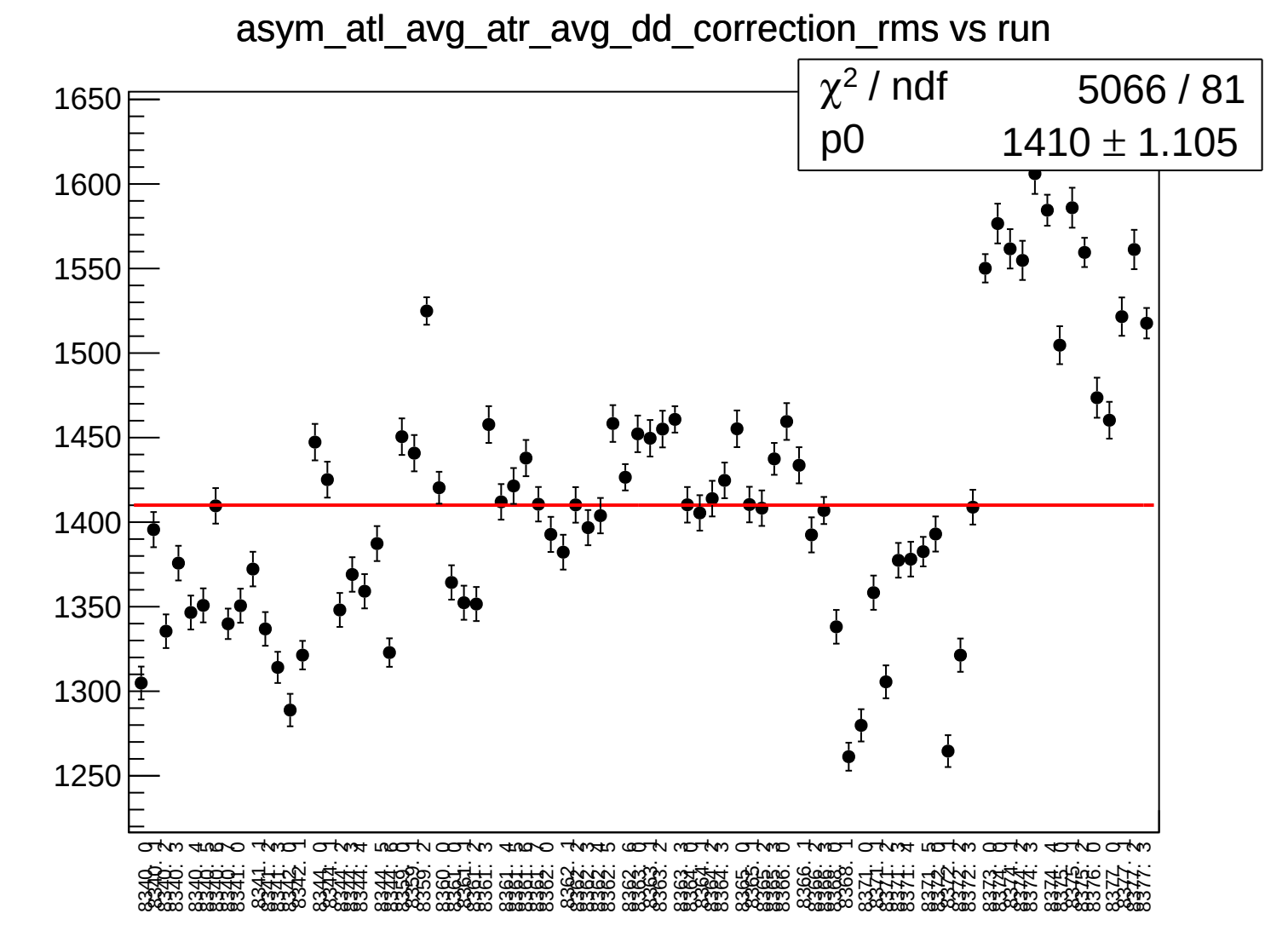

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 85.41 / 81
p0 −1434 ± 1460
pull
Entries 82
Mean 1223
Std Dev 1191
pull1D
Entries 82
Mean 0.001508
Std Dev 1.021

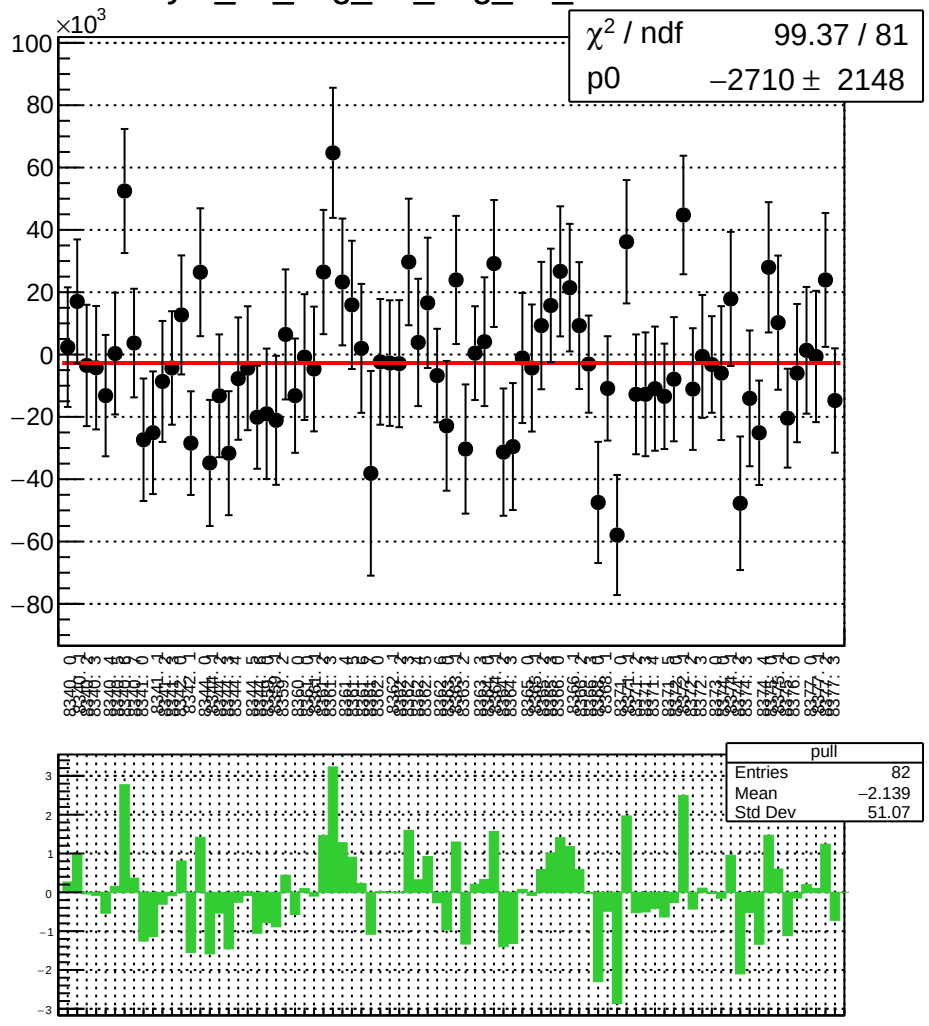
reg_asym_atl_avg_atr_avg_dd_rms vs run

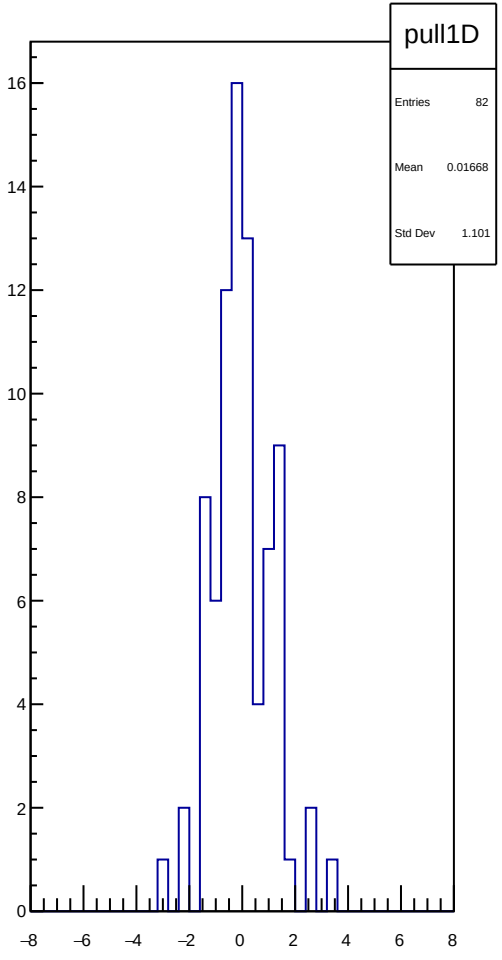


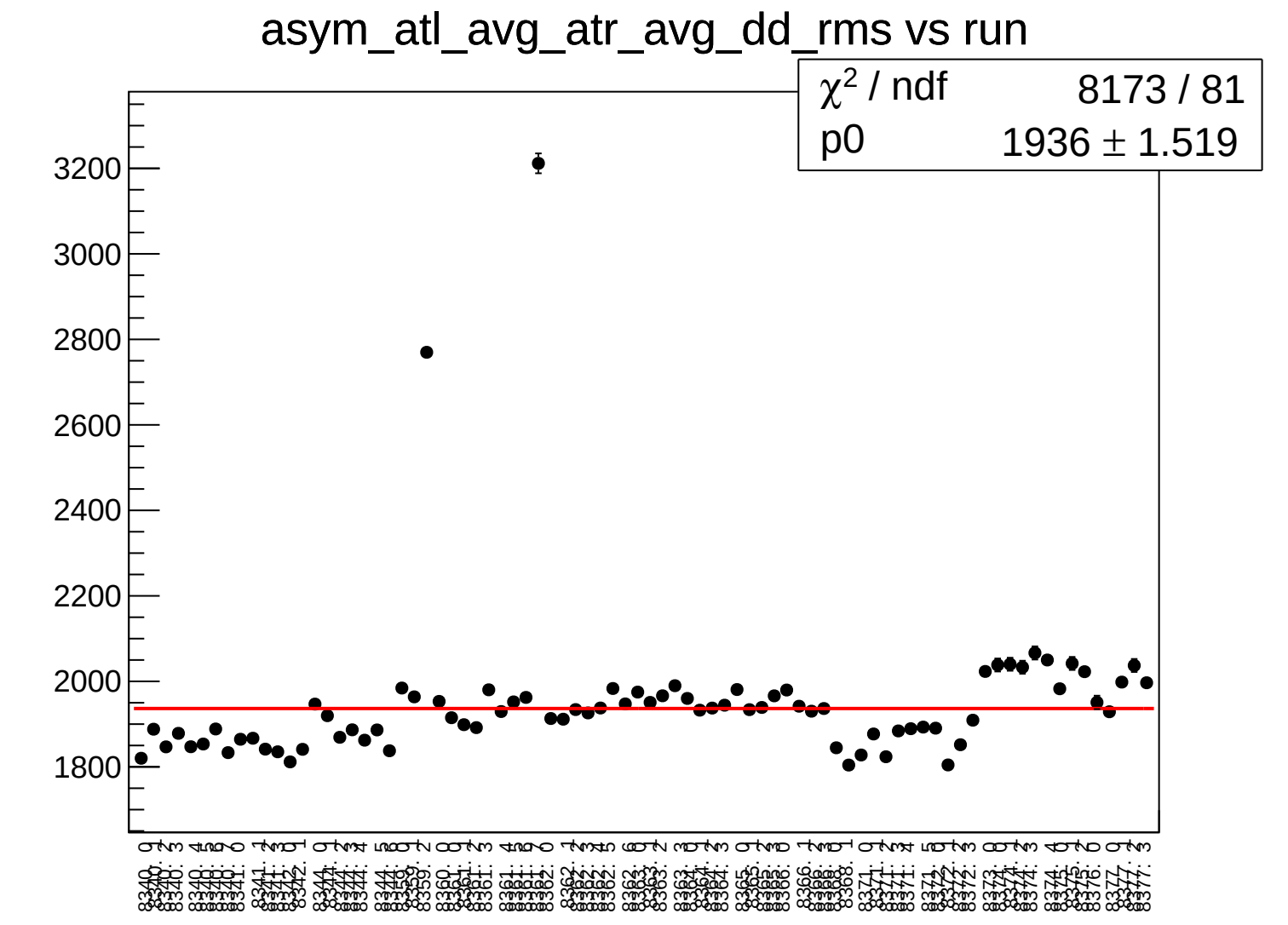

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 98.16 / 81
p0 1549 ± 1563
pull
Entries 82
Mean −38.99
Std Dev 75.17

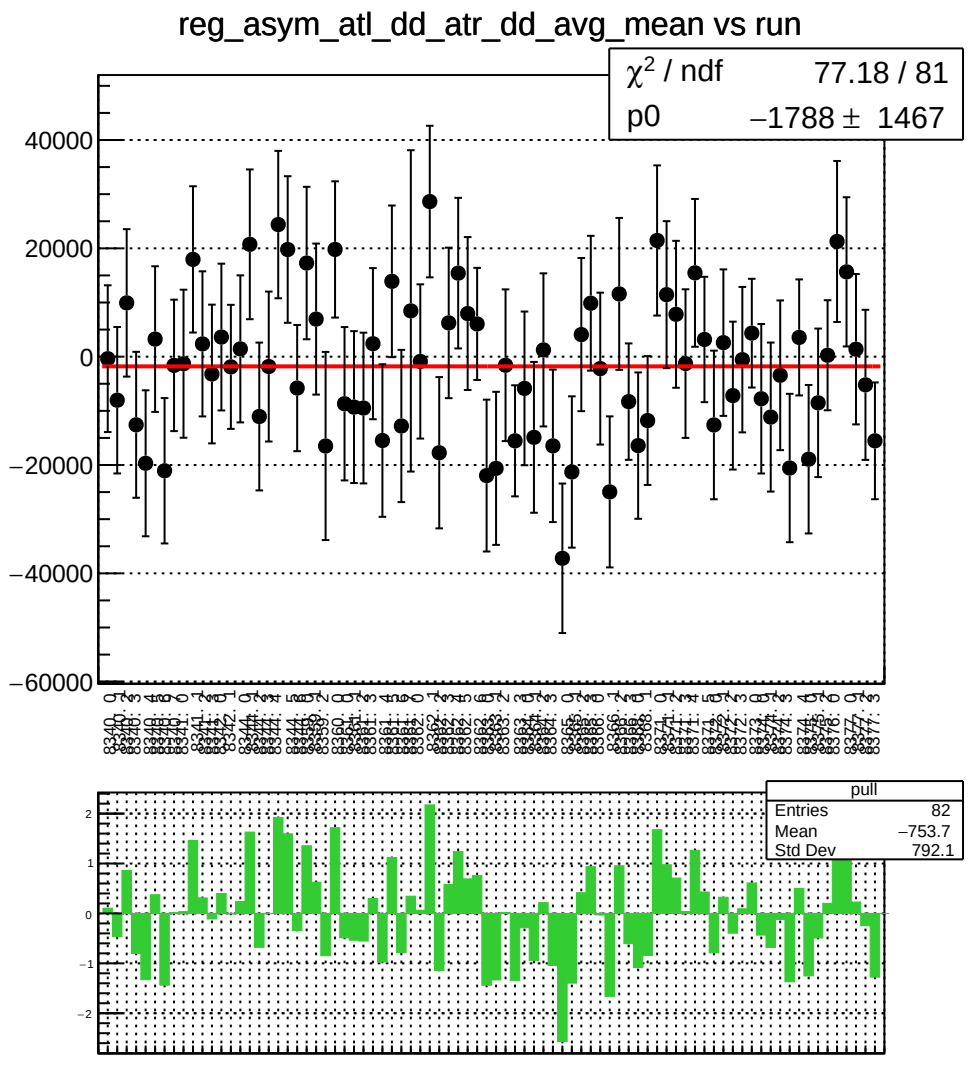

pull1D
Entries 82
Mean −0.03074
Std Dev 1.094

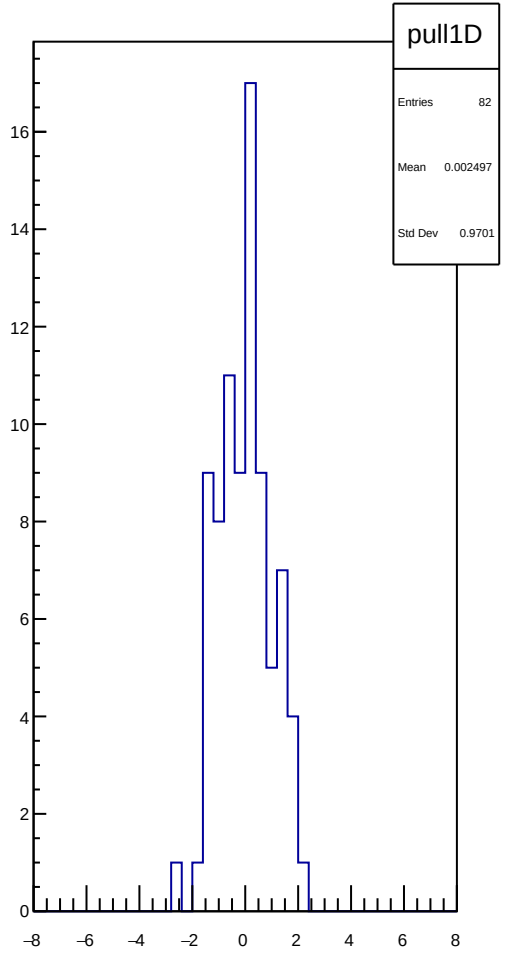

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 5066 / 81
p0 1410 ± 1.105
1650
1600
1550
1500
1450
1400
1350
1300
1250

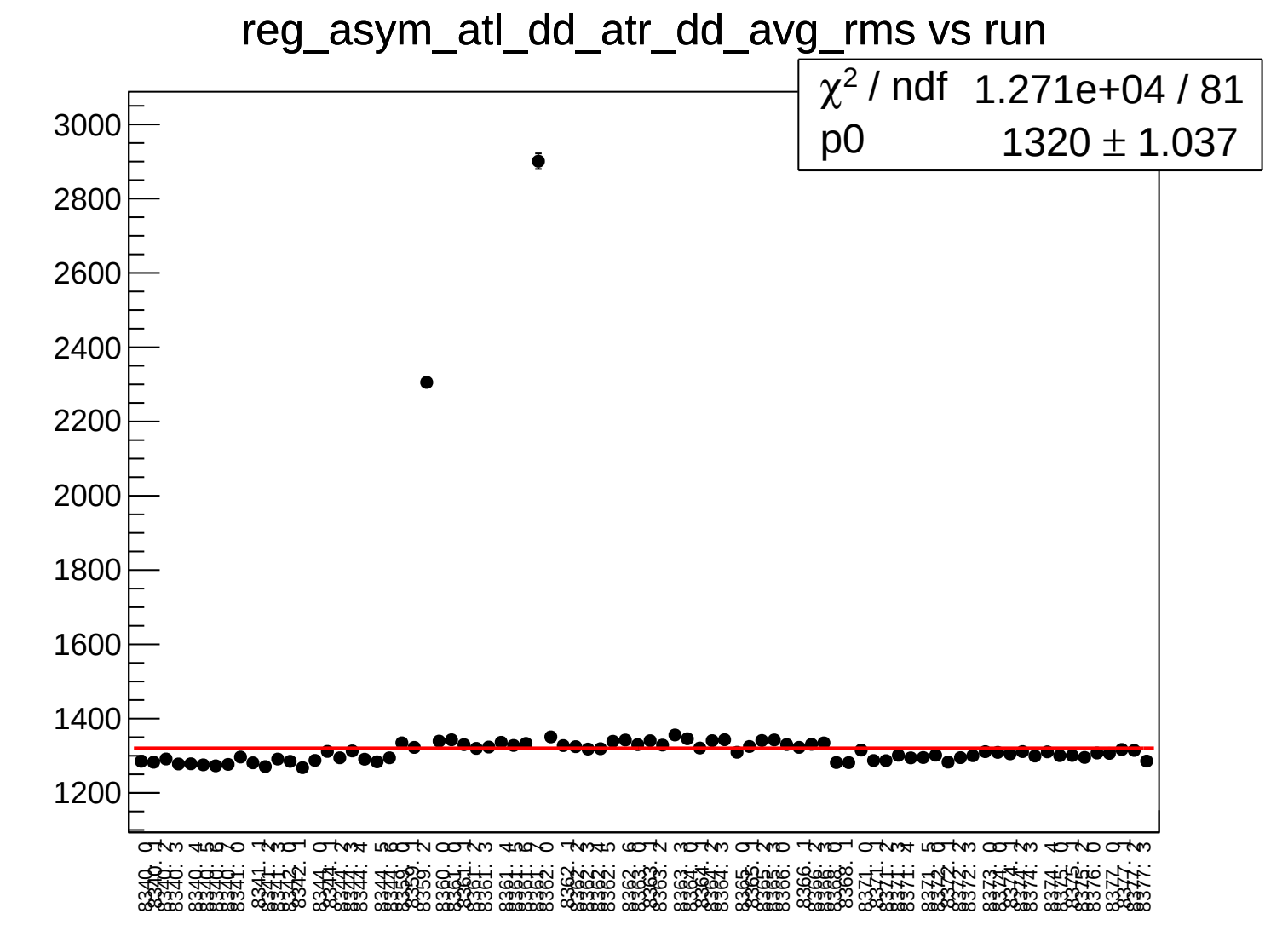

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.37 / 81
p0 −2710 ± 2148
×10³
pull
Entries 82
Mean −2.139
Std Dev 51.07

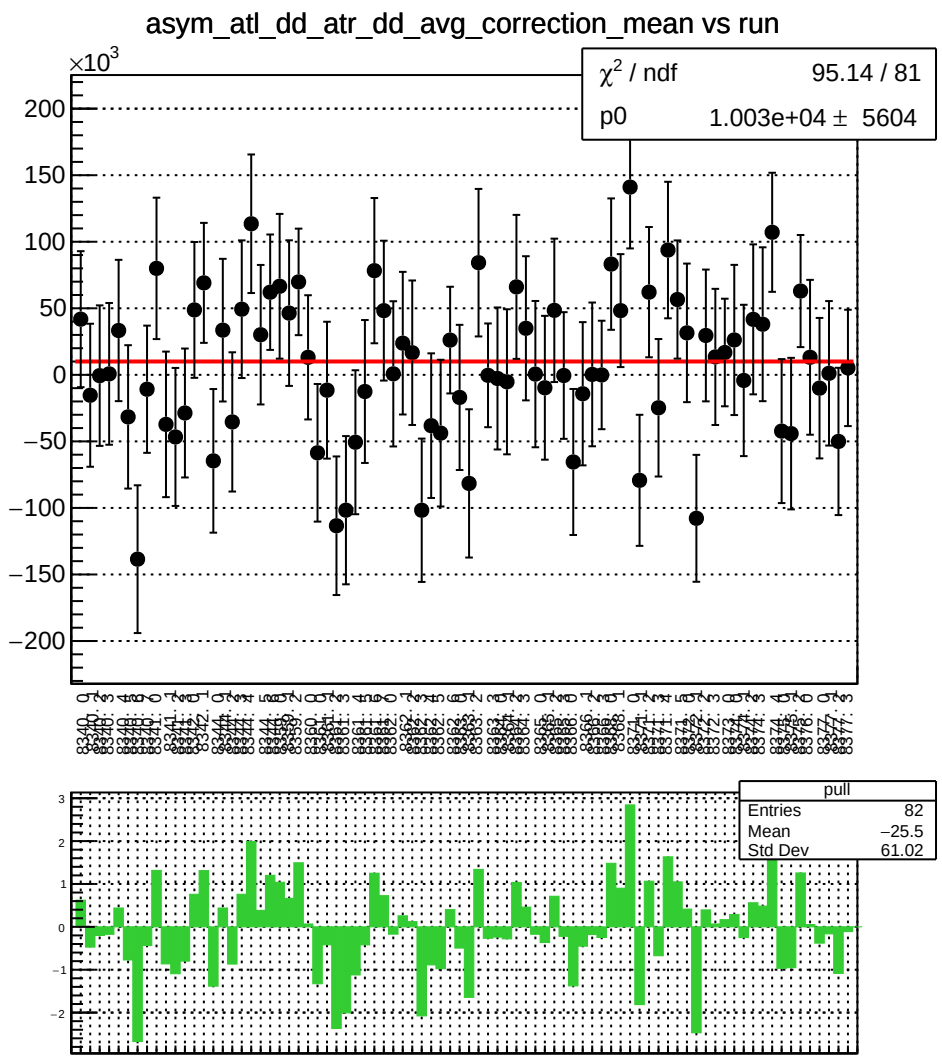

pull1D
Entries 82
Mean 0.01668
Std Dev 1.101

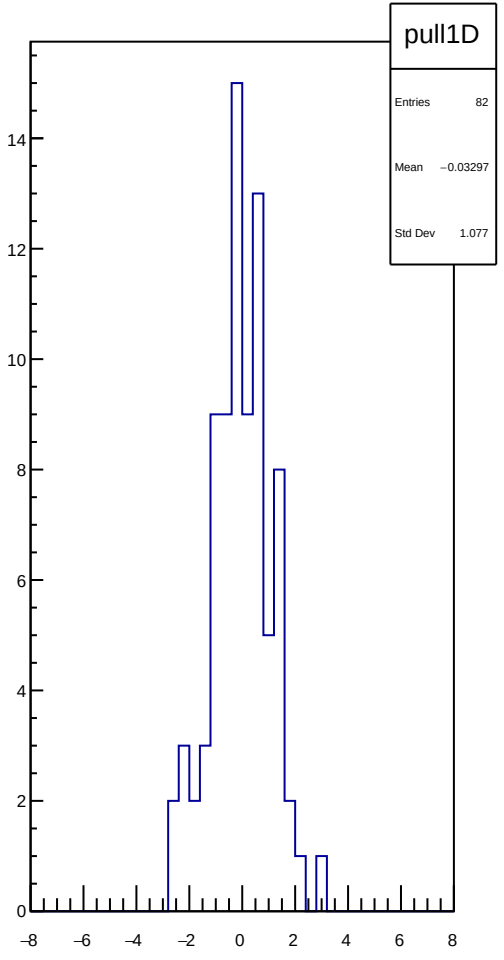

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 8173 / 81
p0 1936 ± 1.519
3200
3000
2800
2600
2400
2200
2000
1800

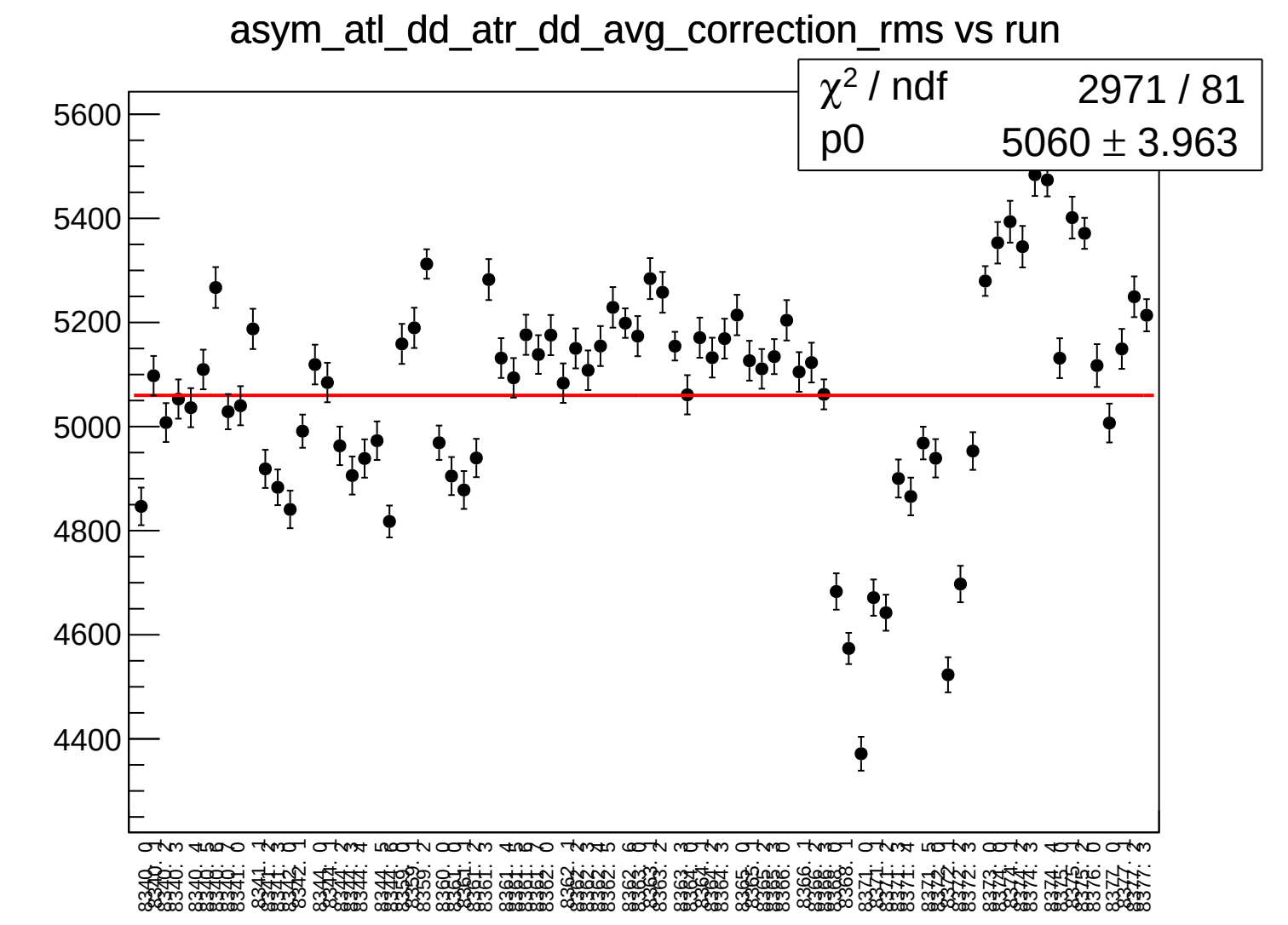

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 77.18 / 81
p0 −1788 ± 1467
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −753.7
Std Dev 792.1
2
1
0
−1
−2

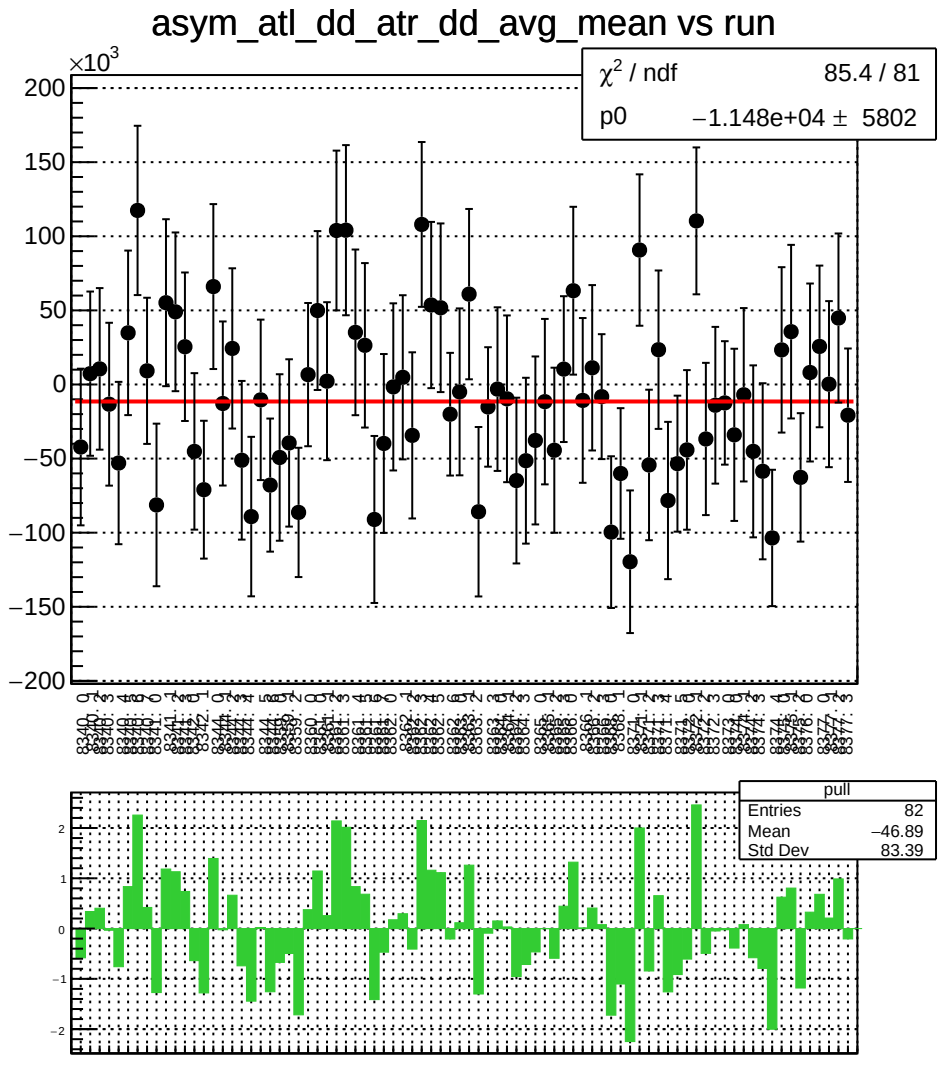

pull1D
Entries 82
Mean 0.002497
Std Dev 0.9701
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

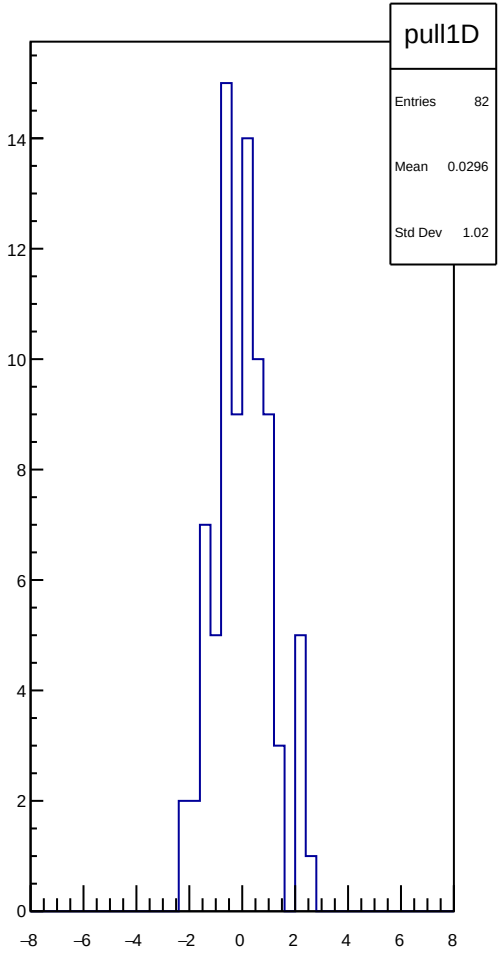

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.271e+04 / 81
p0 1320 ± 1.037
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

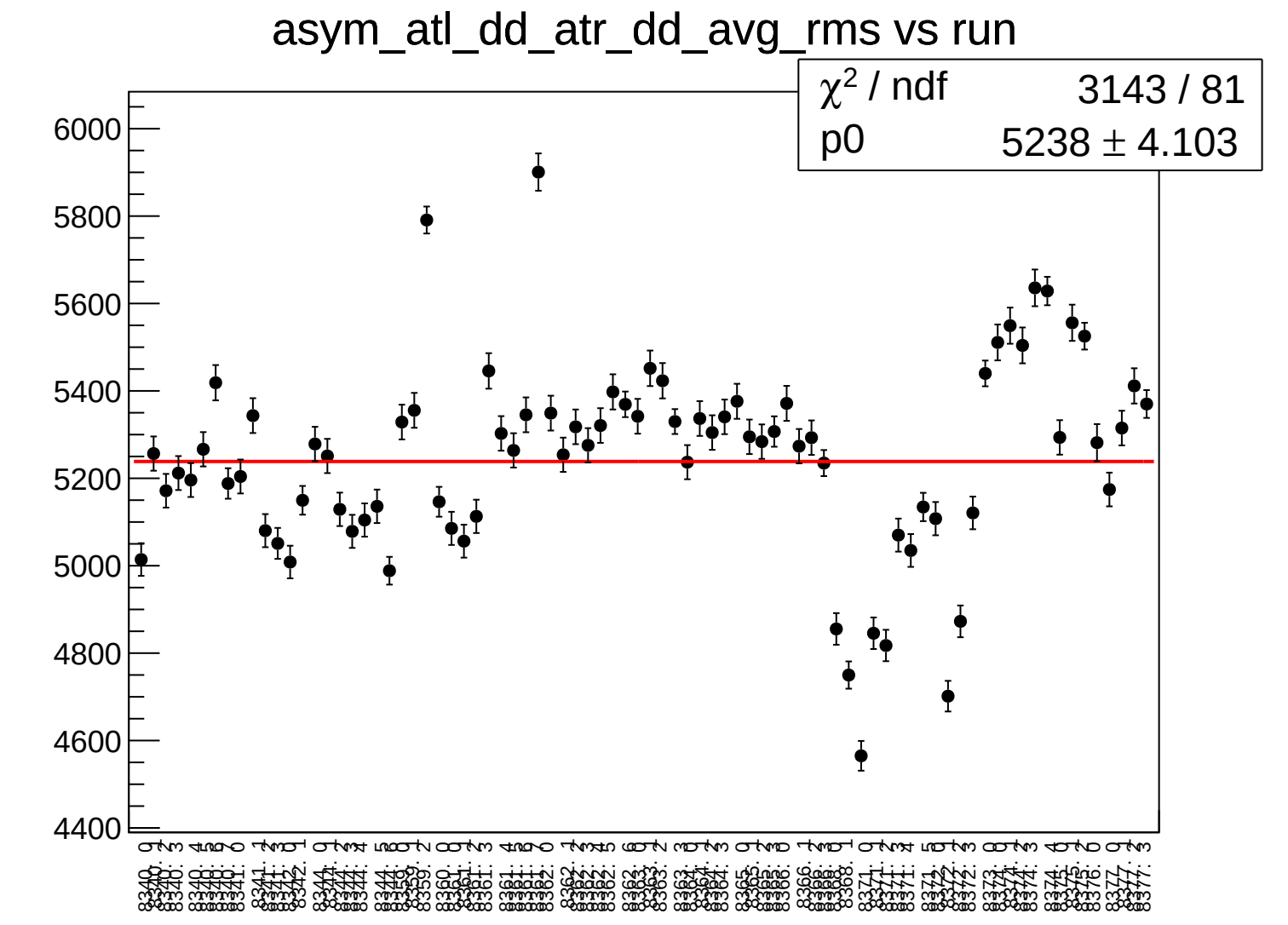

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 95.14 / 81
p0 1.003e+04 ± 5604
pull
Entries 82
Mean −25.5
Std Dev 61.02

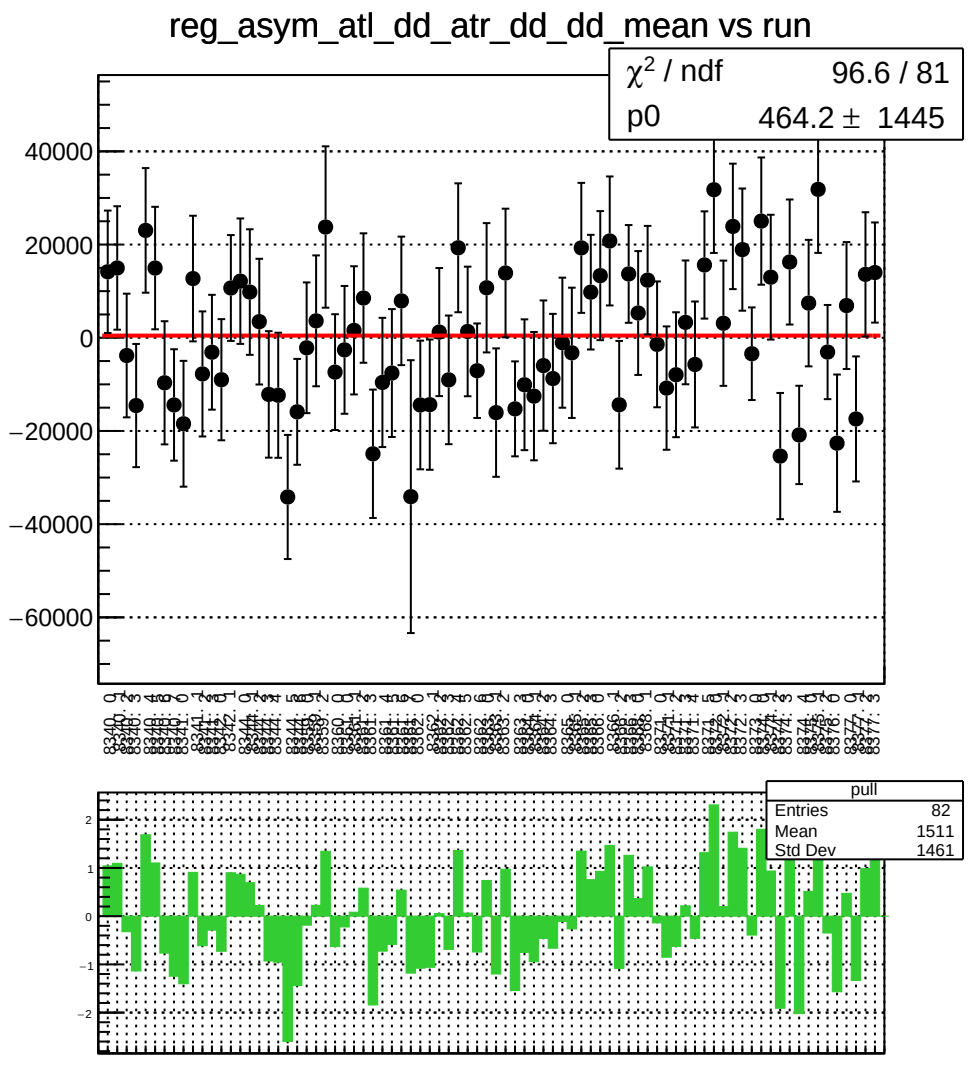

pull1D
Entries 82
Mean −0.03297
Std Dev 1.077

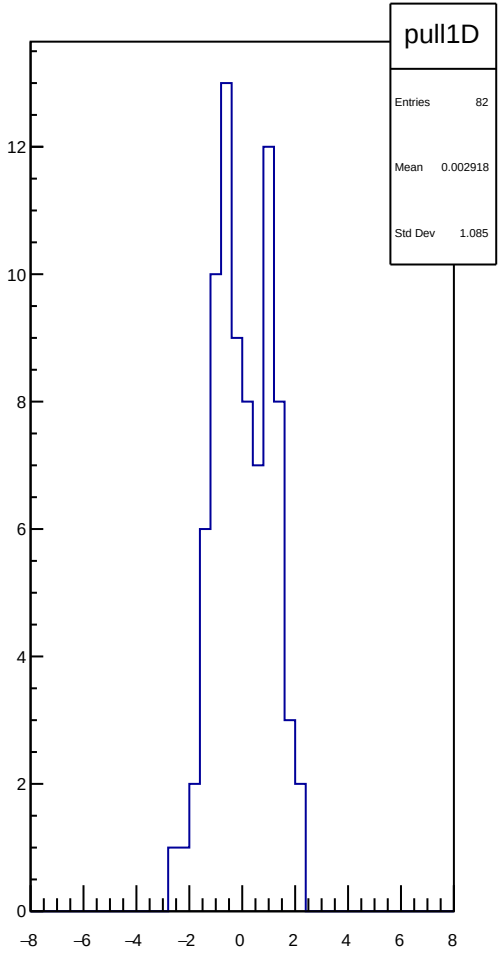

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 2971 / 81
p0 5060 ± 3.963
5600
5400
5200
5000
4800
4600
4400

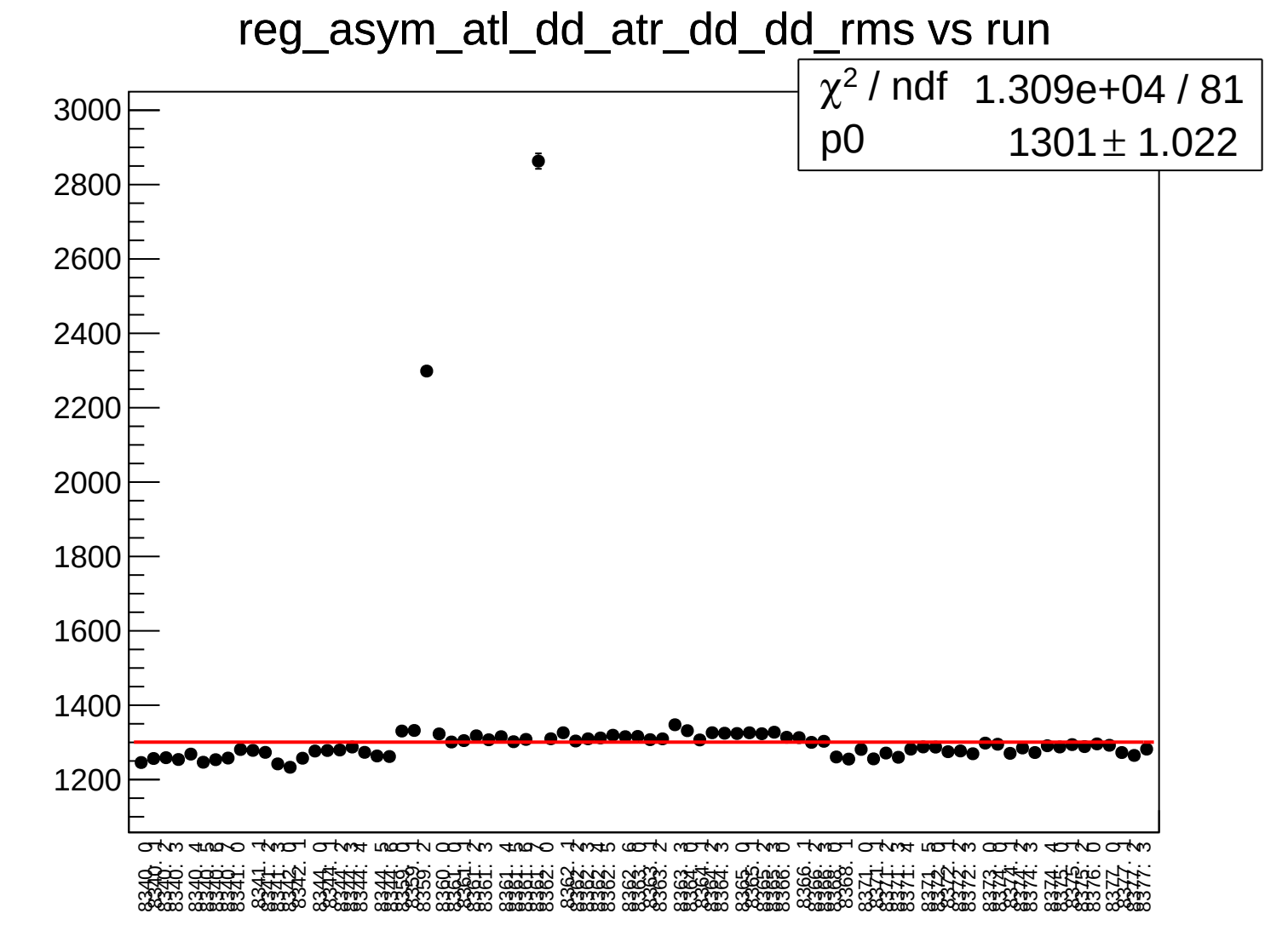

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 85.4 / 81
p0 −1.148e+04 ± 5802
pull
Entries 82
Mean −46.89
Std Dev 83.39

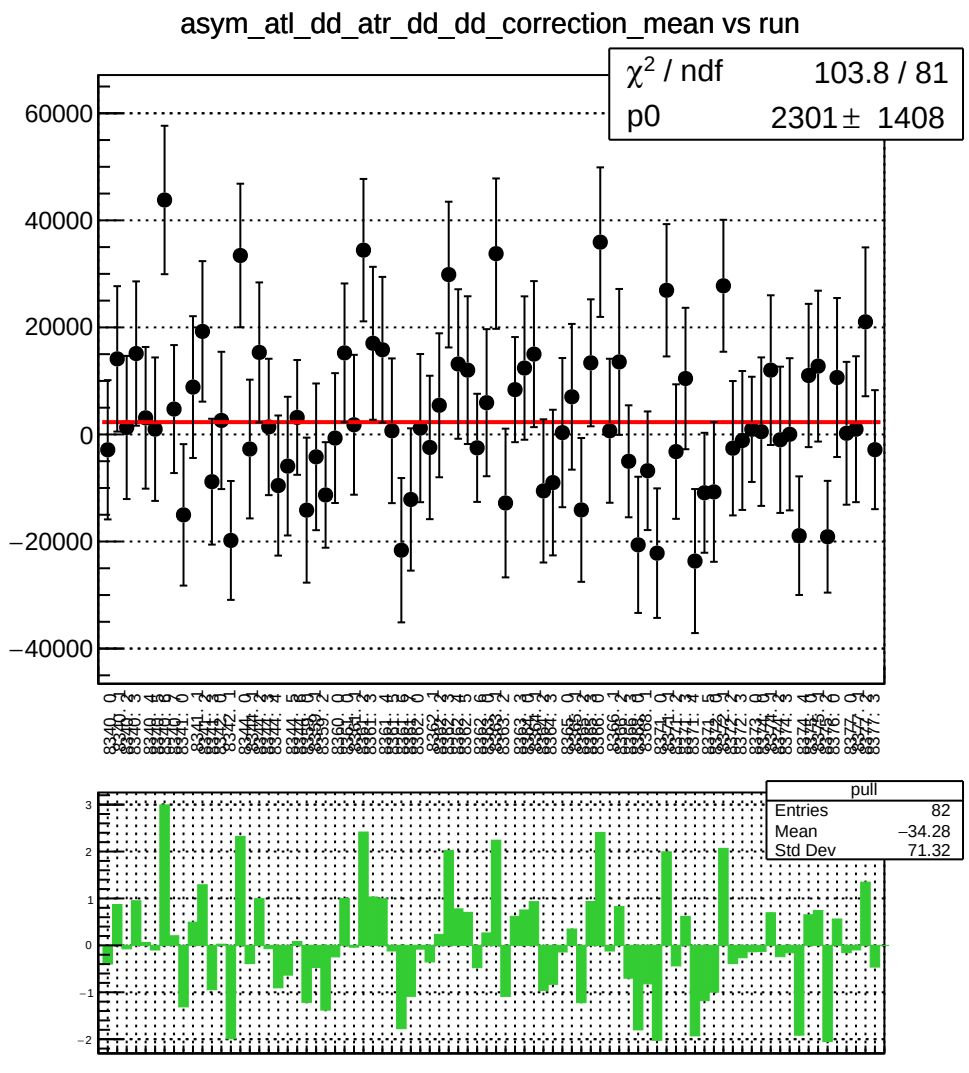

pull1D
Entries 82
Mean 0.0296
Std Dev 1.02

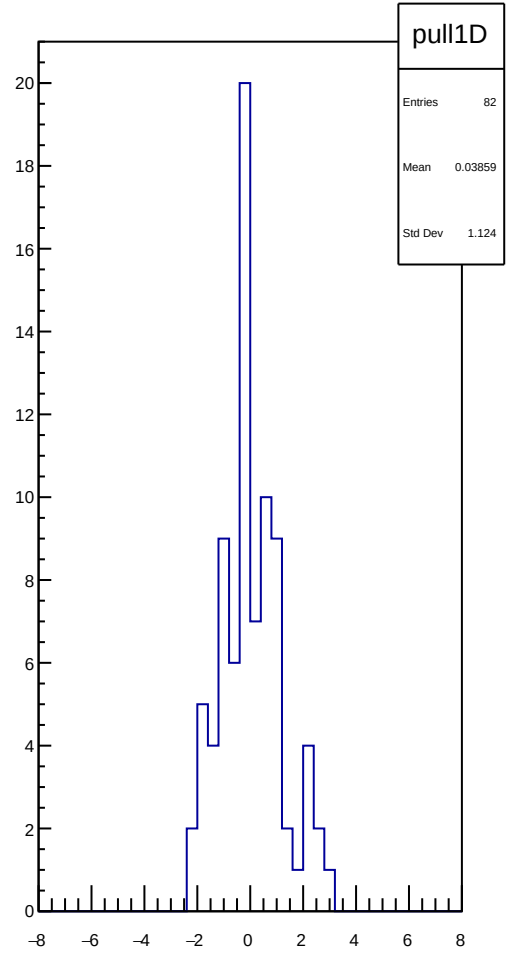

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3143 / 81
p0 5238 ± 4.103
6000
5800
5600
5400
5200
5000
4800
4600
4400

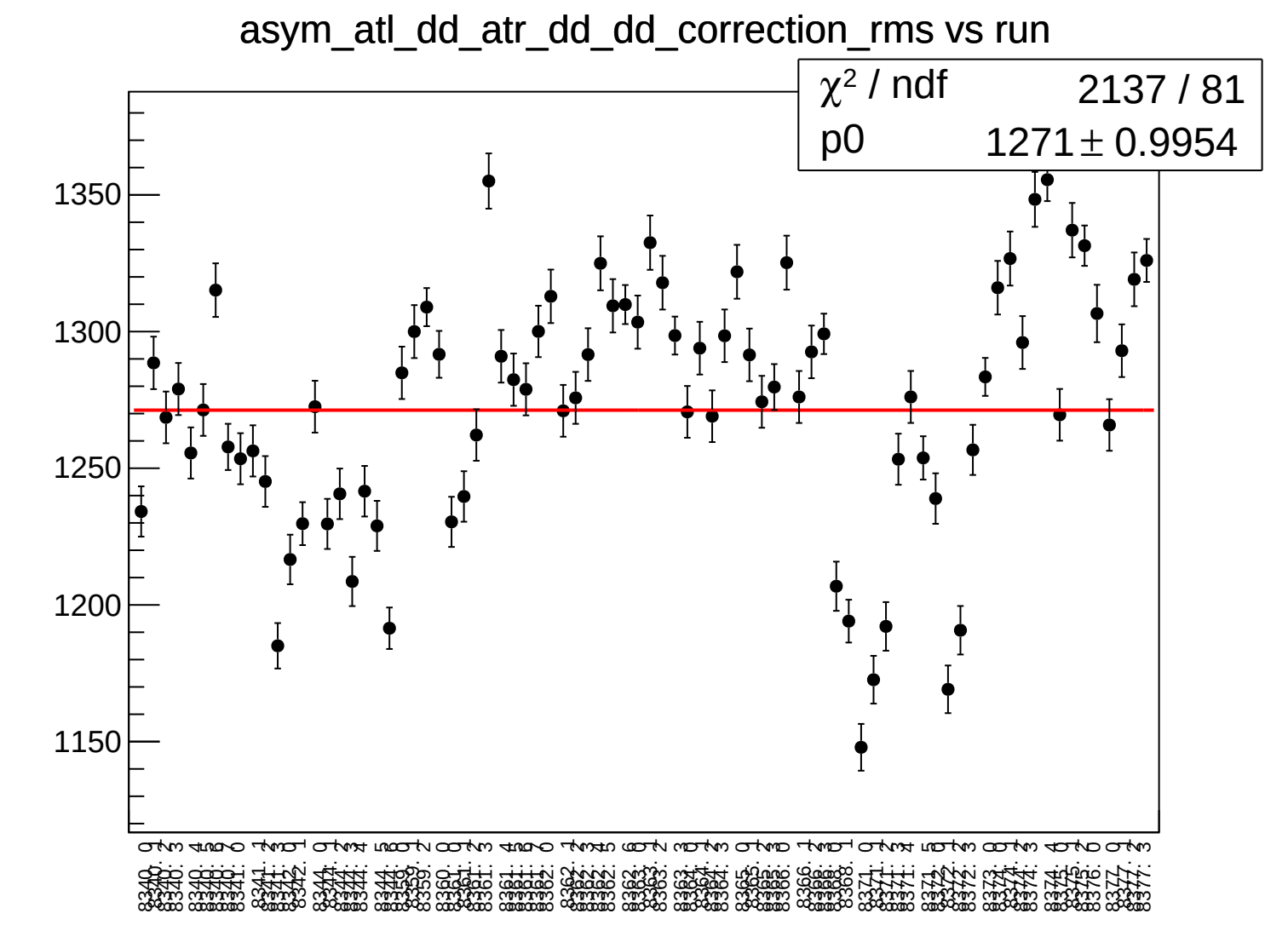

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 96.6 / 81
p0 464.2 ± 1445
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 1511
Std Dev 1461
2
1
0
−1
−2

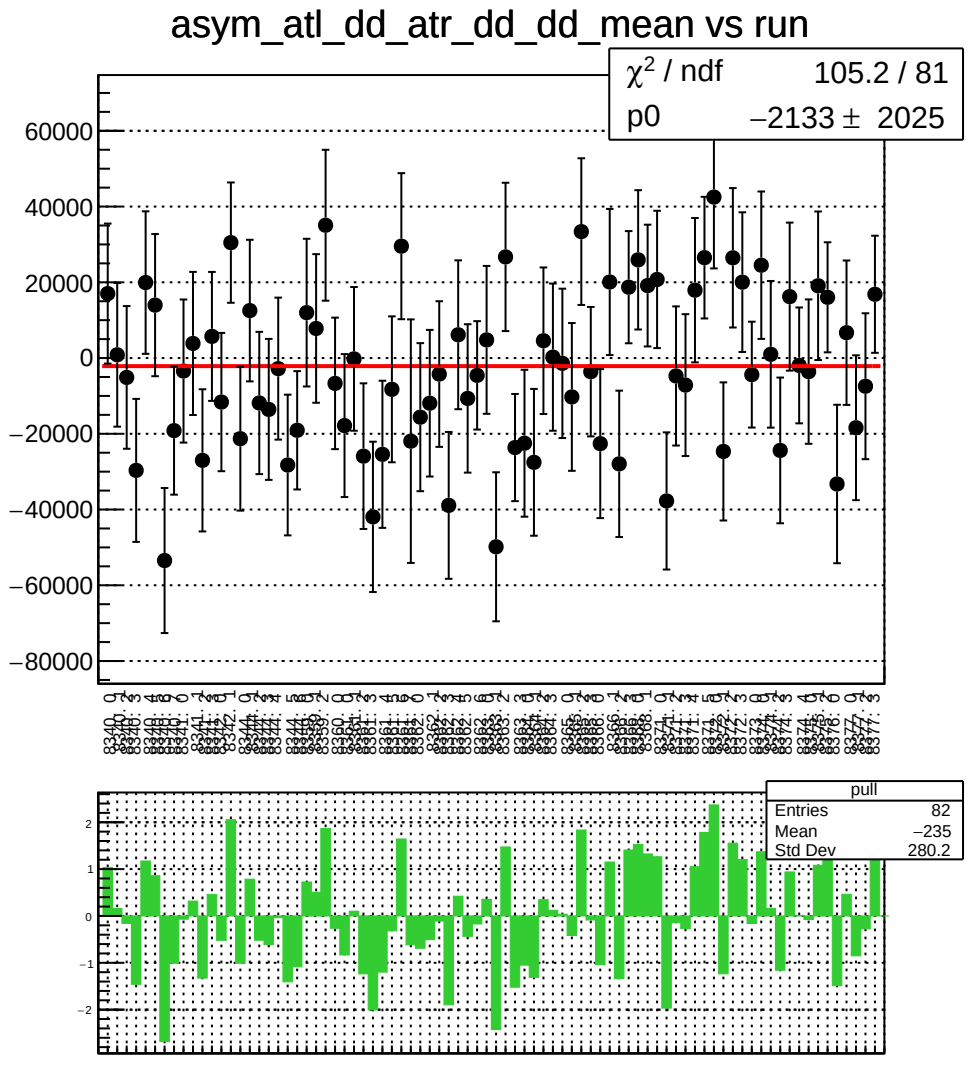

pull1D
Entries 82
Mean 0.002918
Std Dev 1.085
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

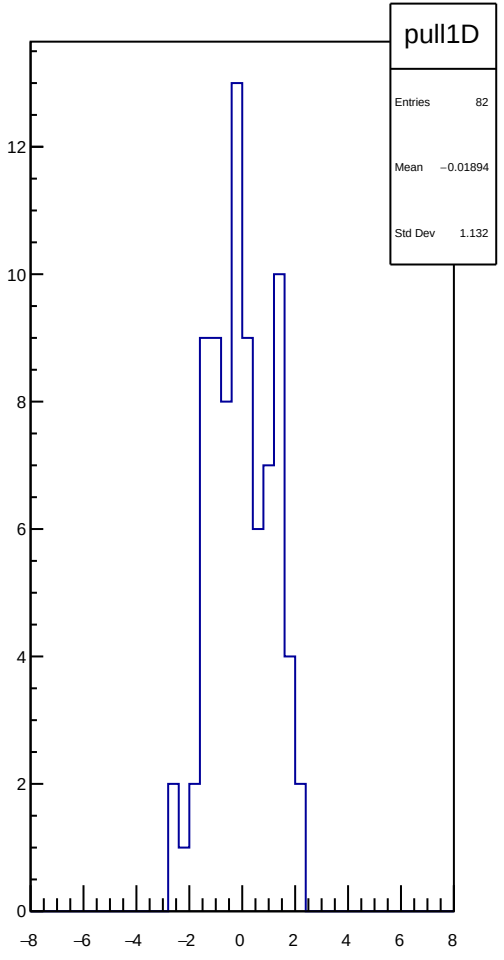

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.309e+04 / 81
p0 1301 ± 1.022
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

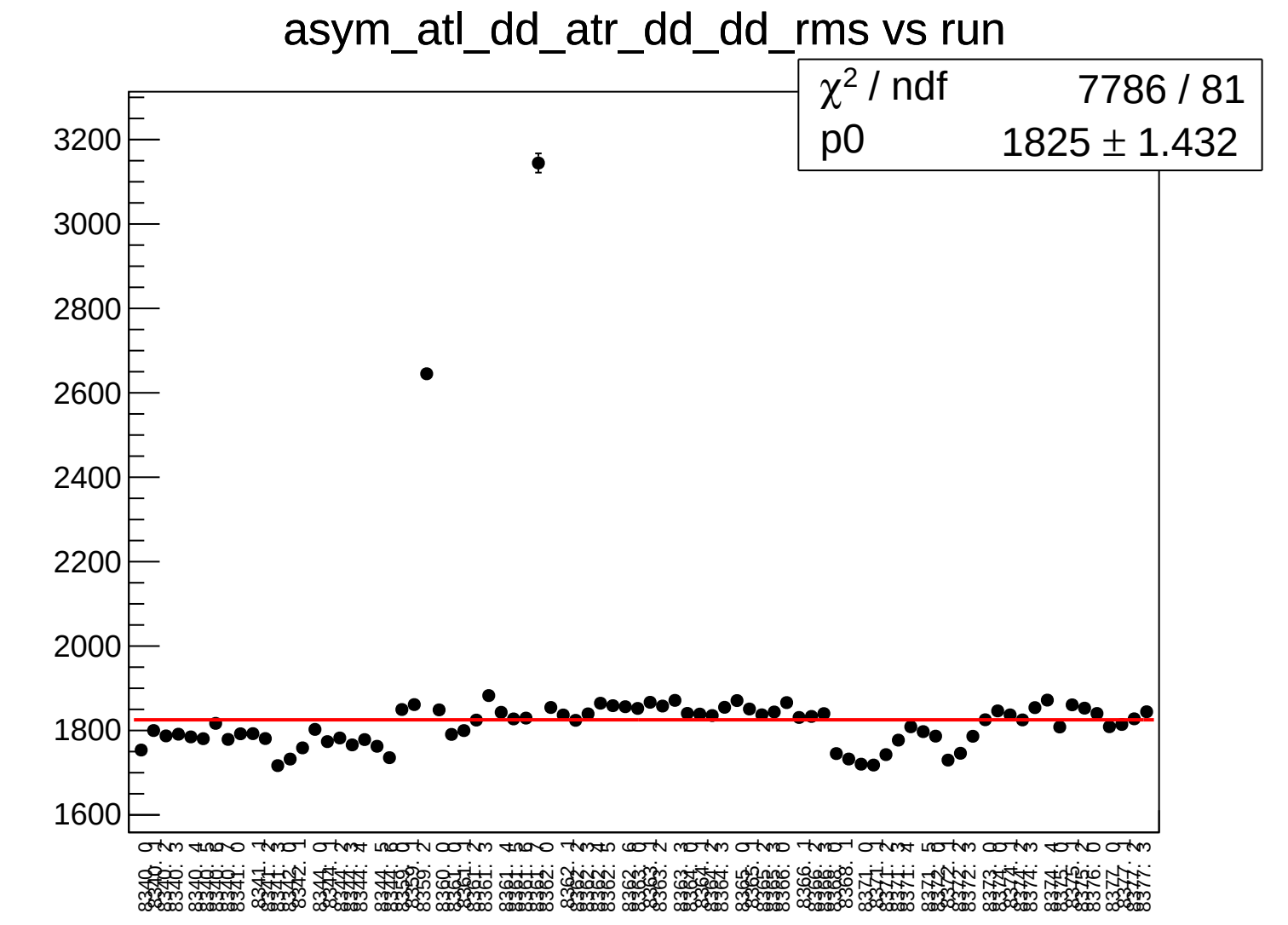

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 103.8 / 81
p0 2301 ± 1408
pull
Entries 82
Mean −34.28
Std Dev 71.32

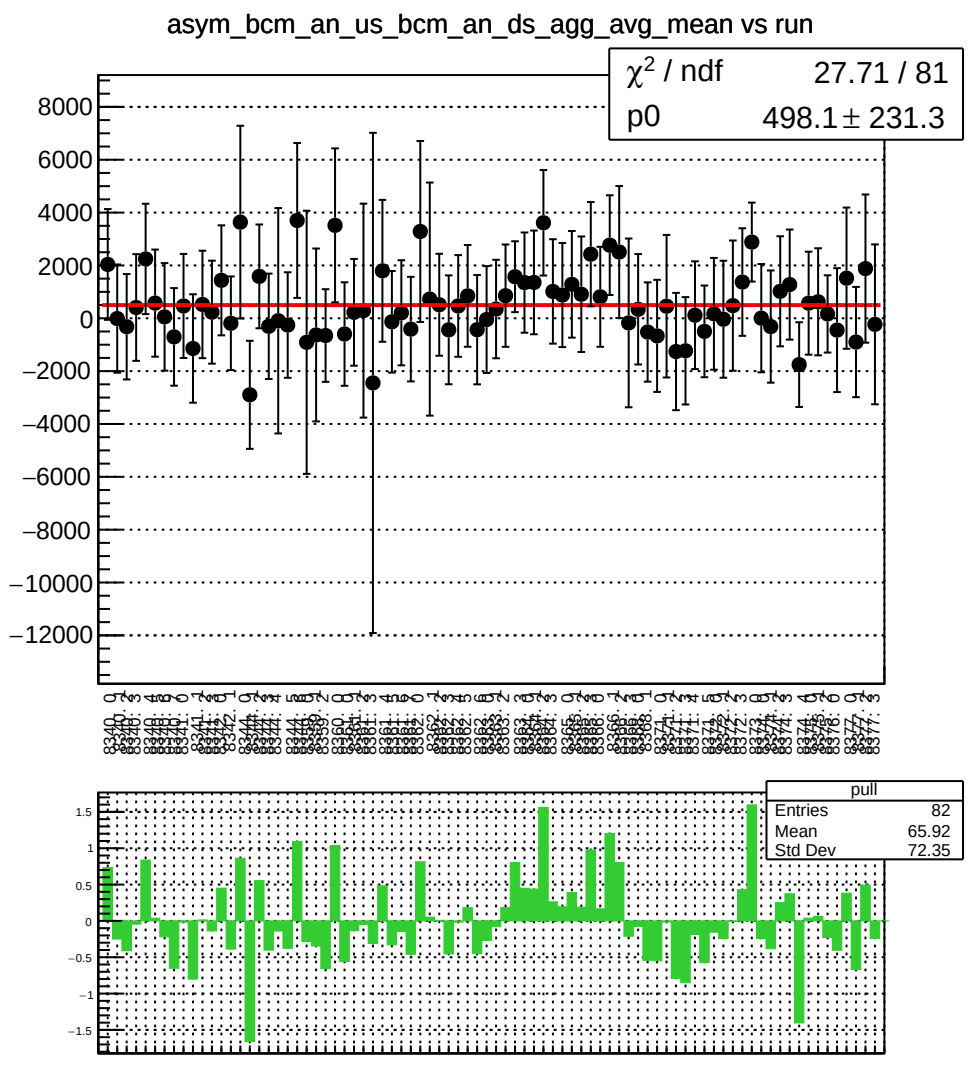

pull1D
Entries 82
Mean 0.03859
Std Dev 1.124

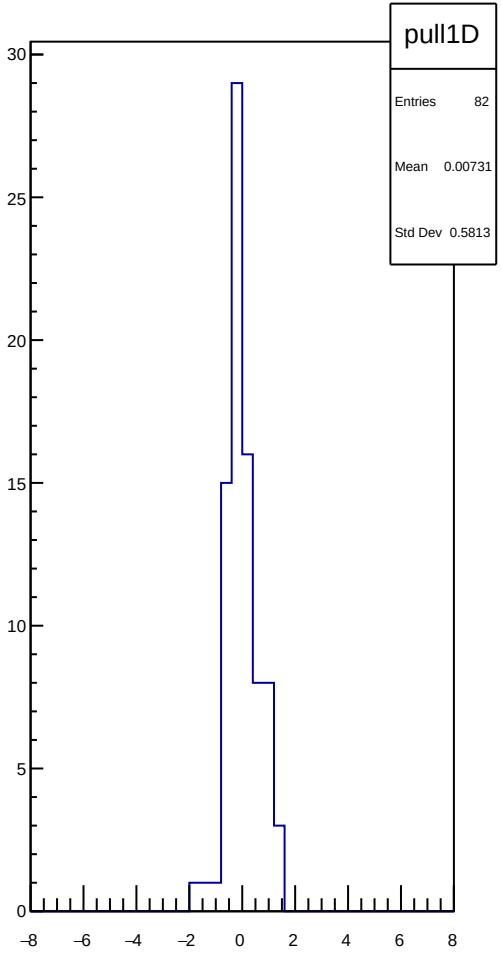

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 2137 / 81
p0 1271 ± 0.9954
1350
1300
1250
1200
1150

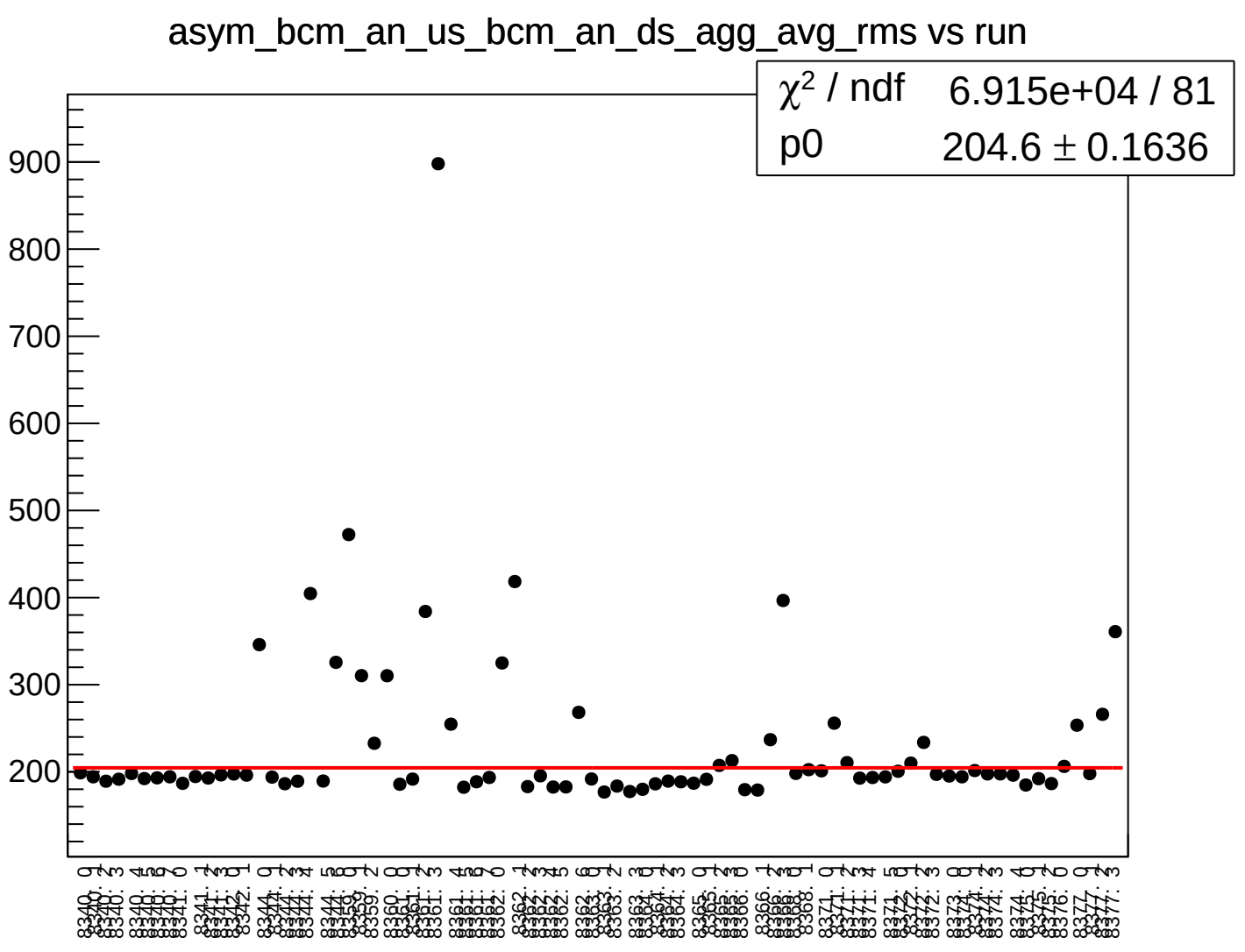

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 105.2 / 81
p0 −2133 ± 2025
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean −235
Std Dev 280.2
2
1
0
−1
−2

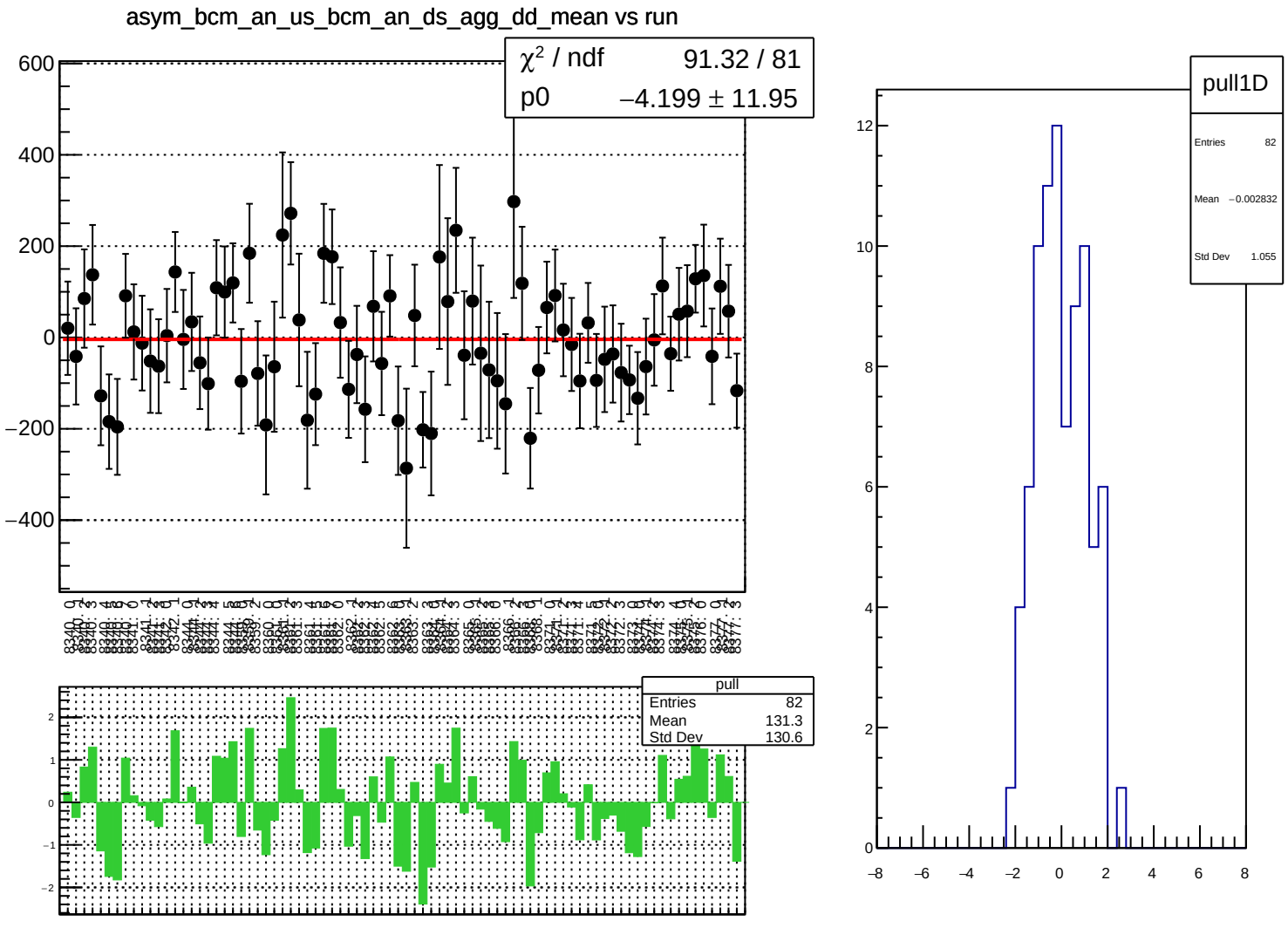

pull1D
Entries 82
Mean −0.01894
Std Dev 1.132
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

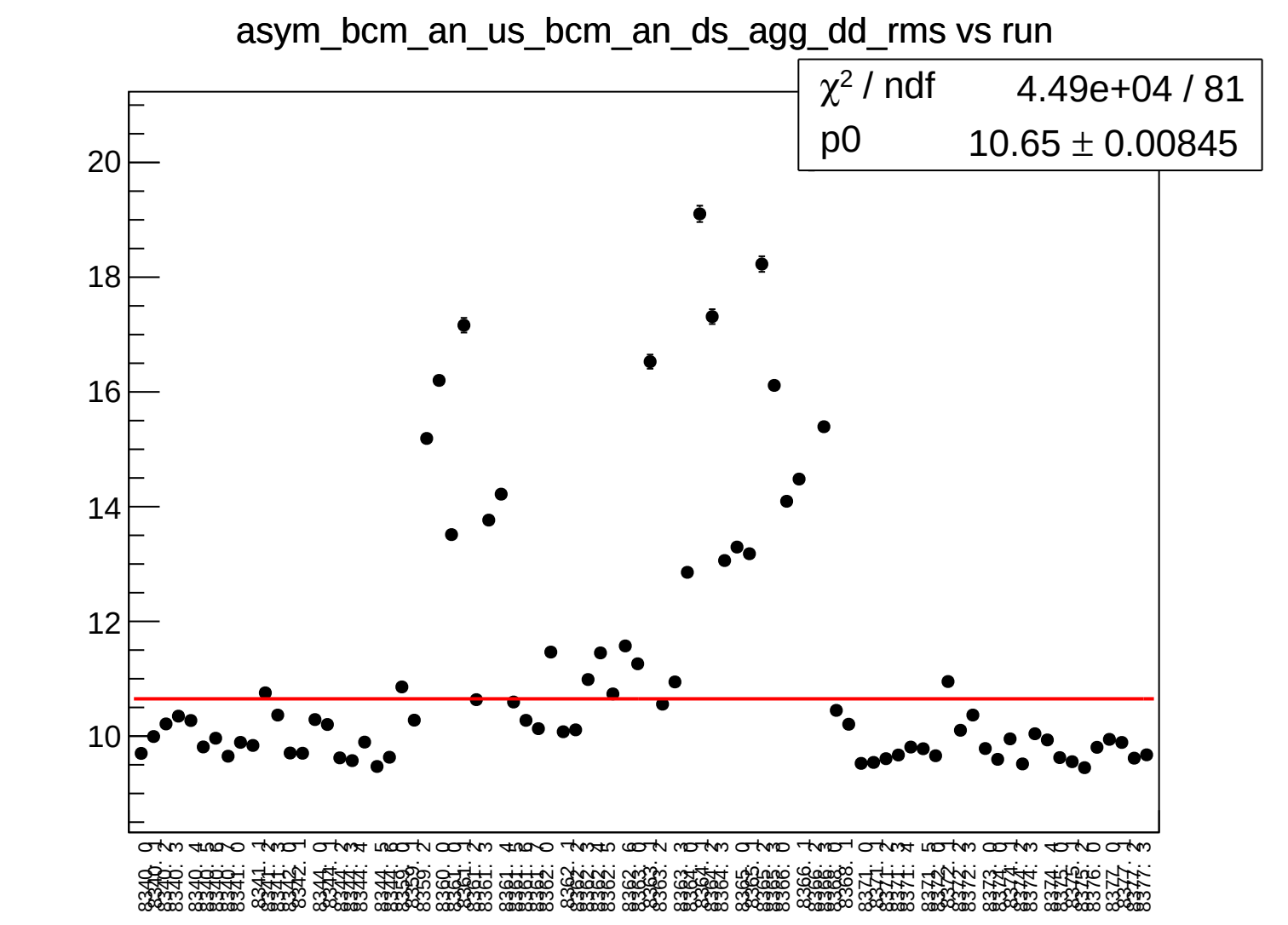

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 7786 / 81
p0 1825 ± 1.432
3200
3000
2800
2600
2400
2200
2000
1800
1600

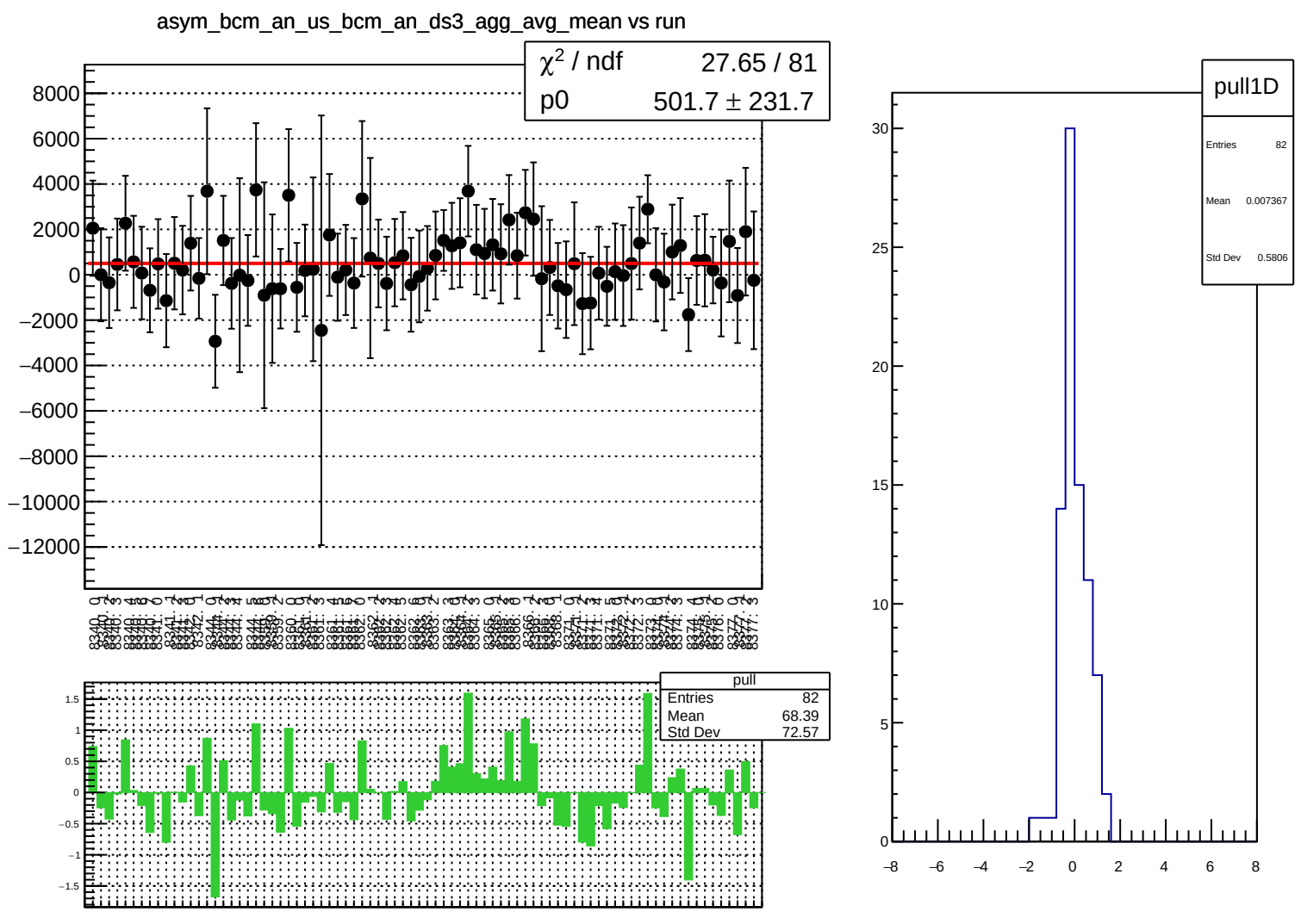

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 27.71 / 81
p0 498.1 ± 231.3
pull
Entries 82
Mean 65.92
Std Dev 72.35

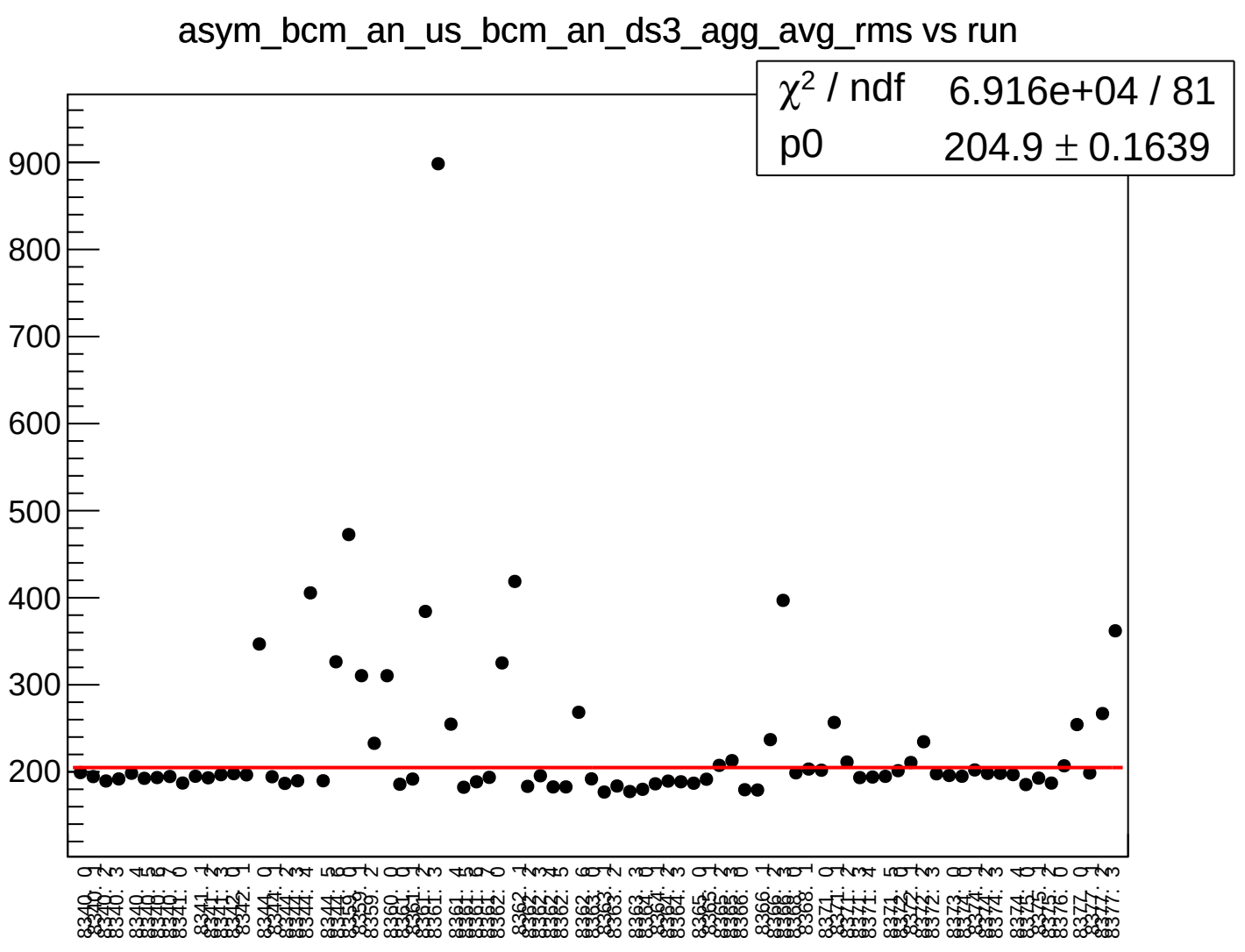

pull1D
Entries 82
Mean 0.00731
Std Dev 0.5813

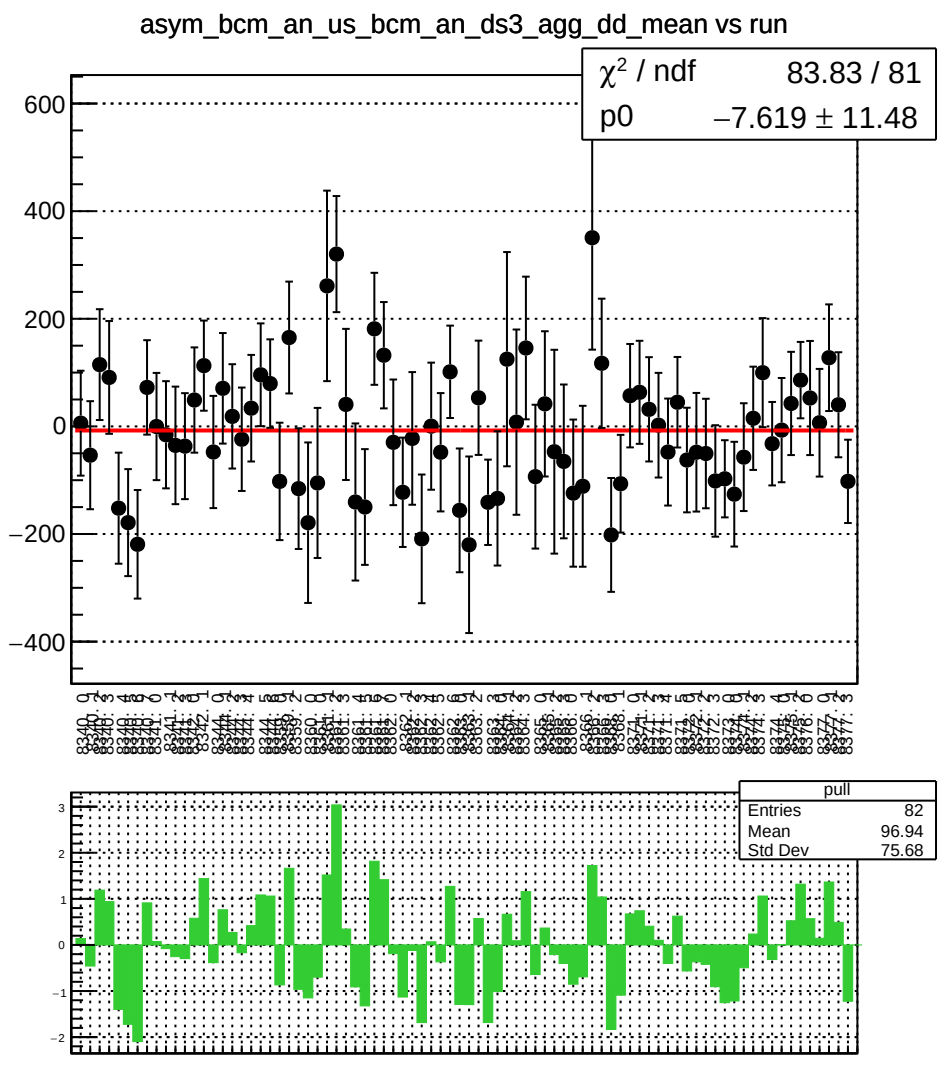

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6.915e+04 / 81
p0 204.6 ± 0.1636
900
800
700
600
500
400
300
200

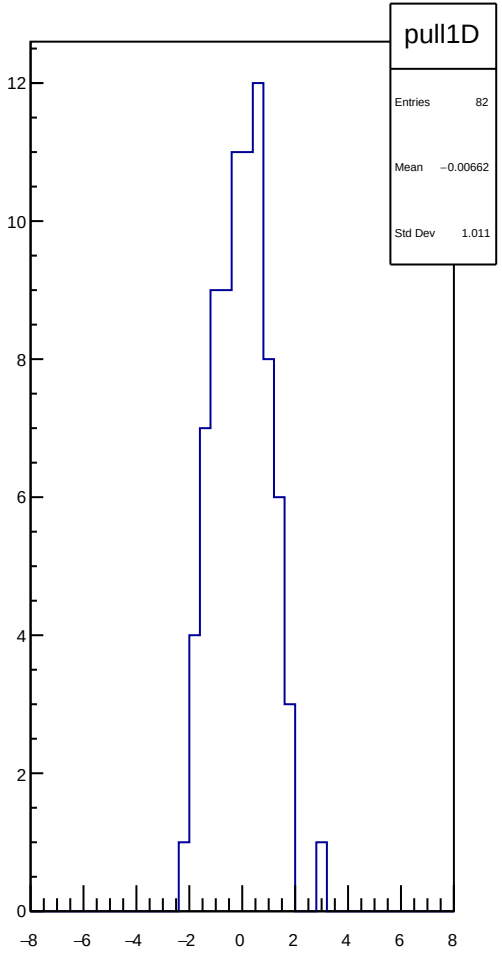

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 91.32 / 81
p0 −4.199 ± 11.95
pull
Entries 82
Mean 131.3
Std Dev 130.6
pull1D
Entries 82
Mean −0.002832
Std Dev 1.055

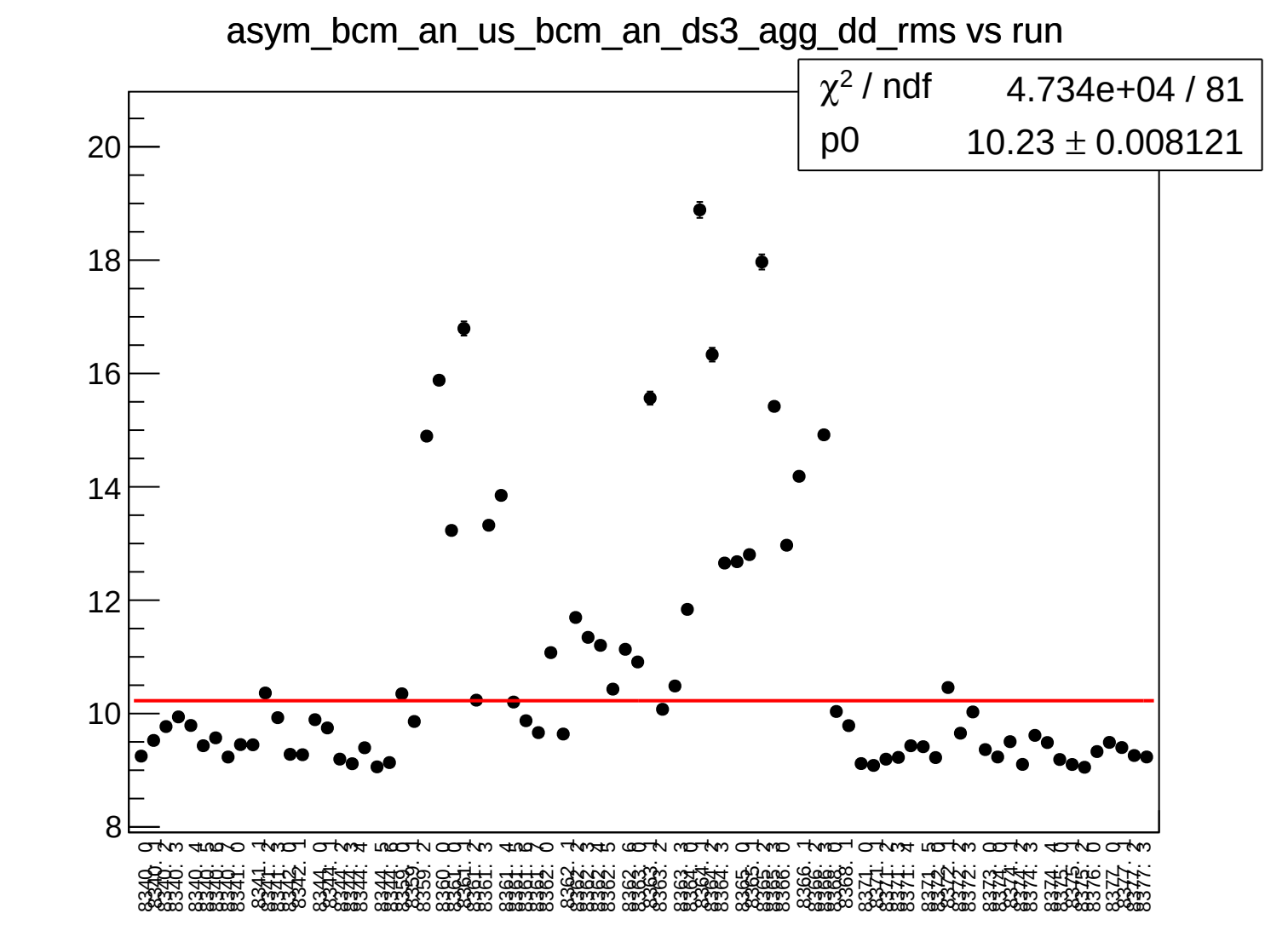

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4.49e+04 / 81
p0 10.65 ± 0.00845
20
18
16
14
12
10

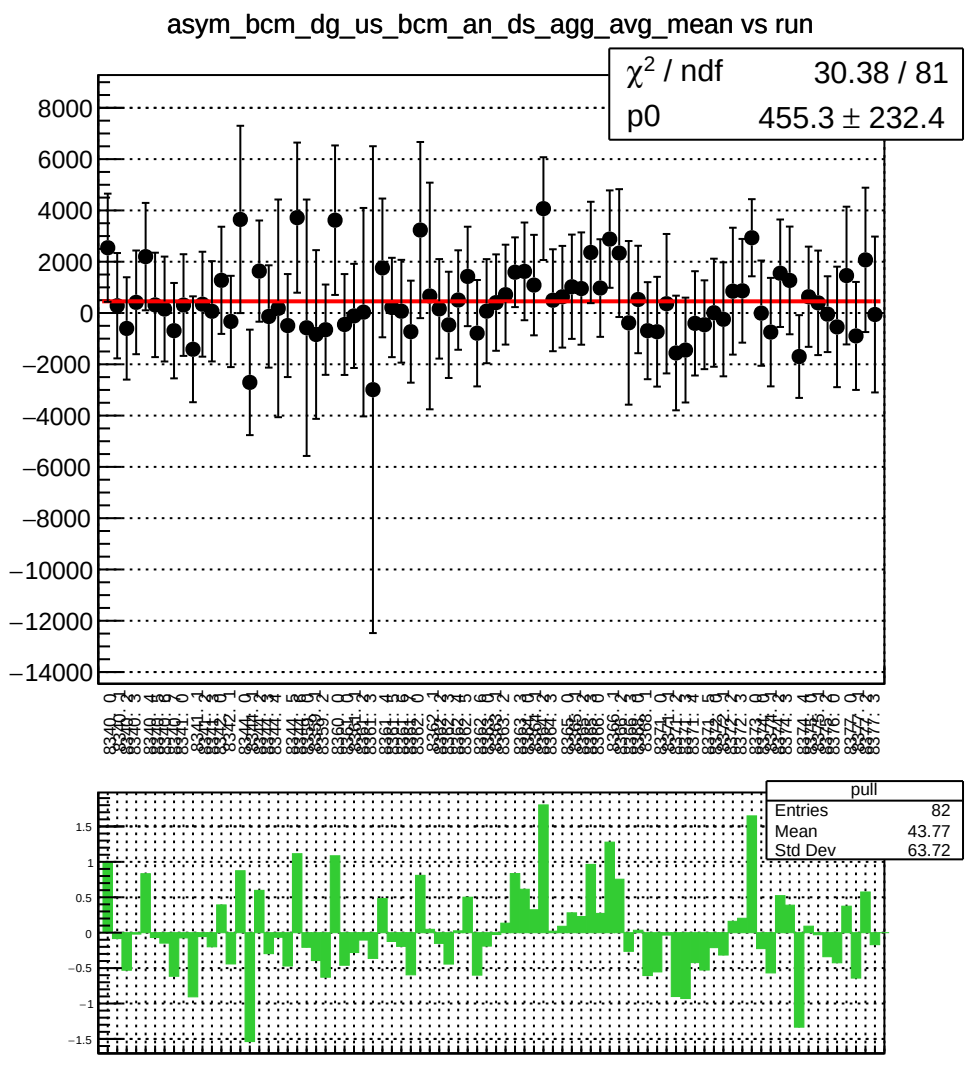

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 27.65 / 81
p0 501.7 ± 231.7
pull
Entries 82
Mean 68.39
Std Dev 72.57
pull1D
Entries 82
Mean 0.007367
Std Dev 0.5806

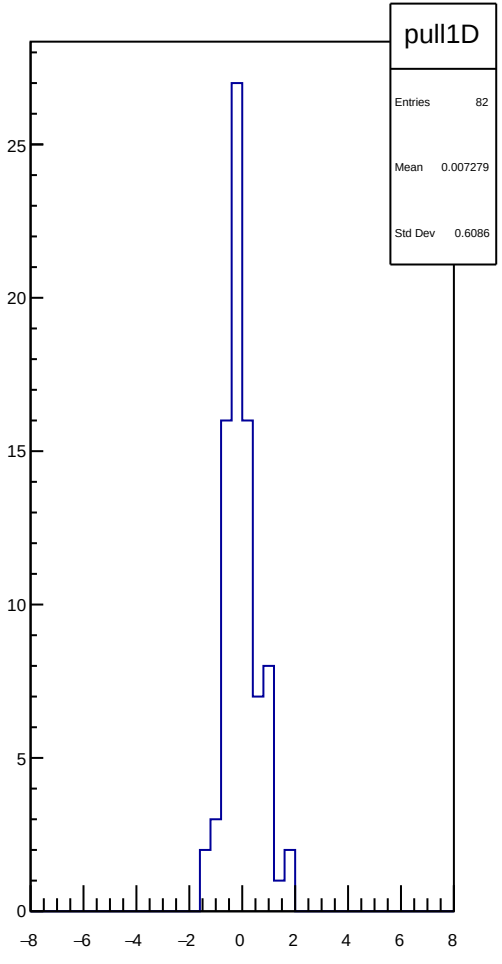

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 6.916e+04 / 81
p0 204.9 ± 0.1639
900
800
700
600
500
400
300
200

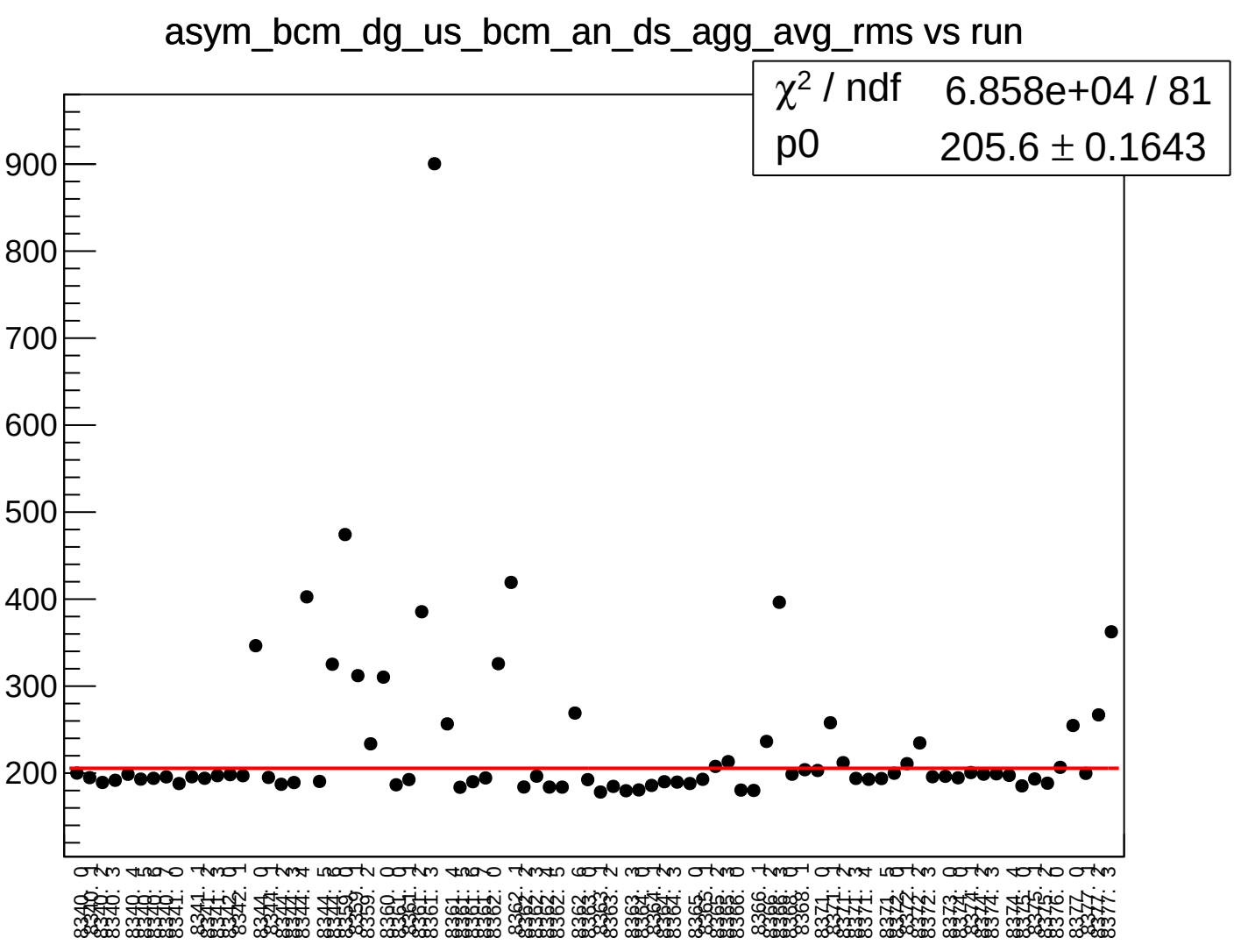

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 83.83 / 81
p0 −7.619 ± 11.48
600
400
200
0
−200
−400
pull
Entries 82
Mean 96.94
Std Dev 75.68
3
2
1
0
−1
−2

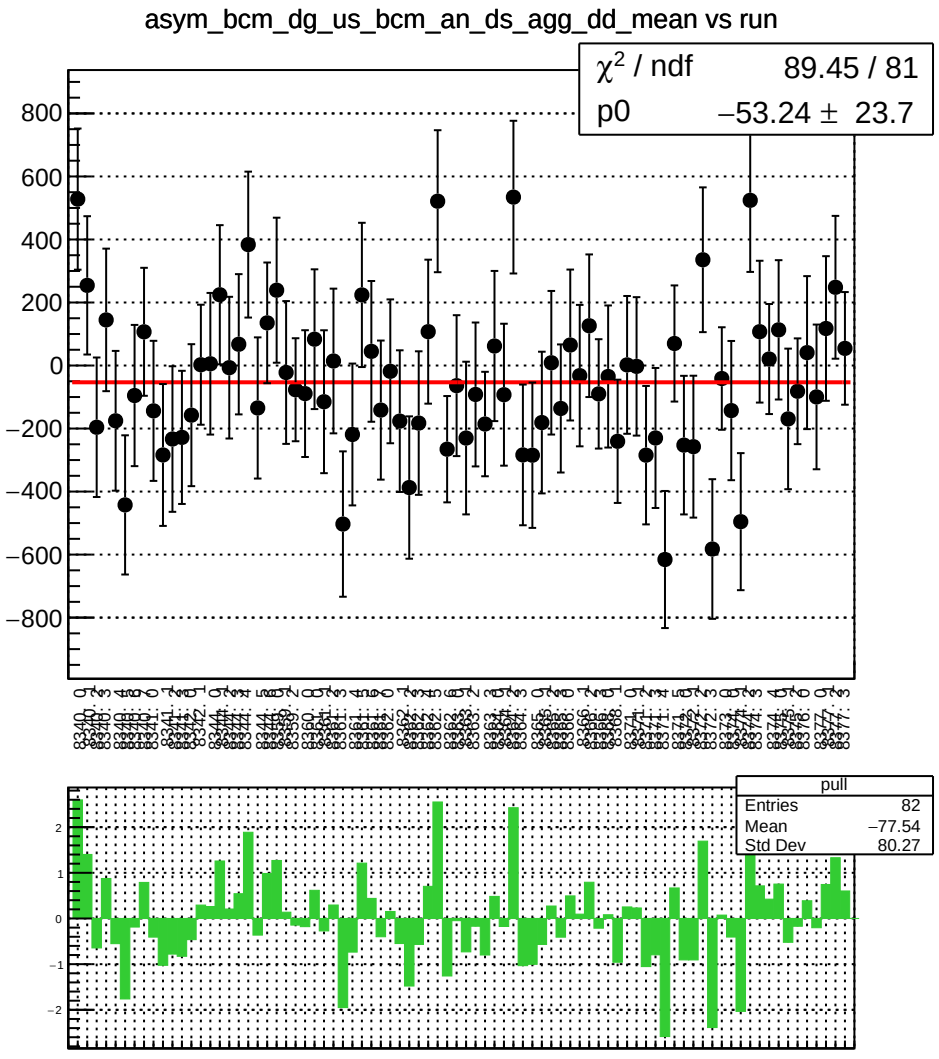

pull1D
Entries 82
Mean −0.00662
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

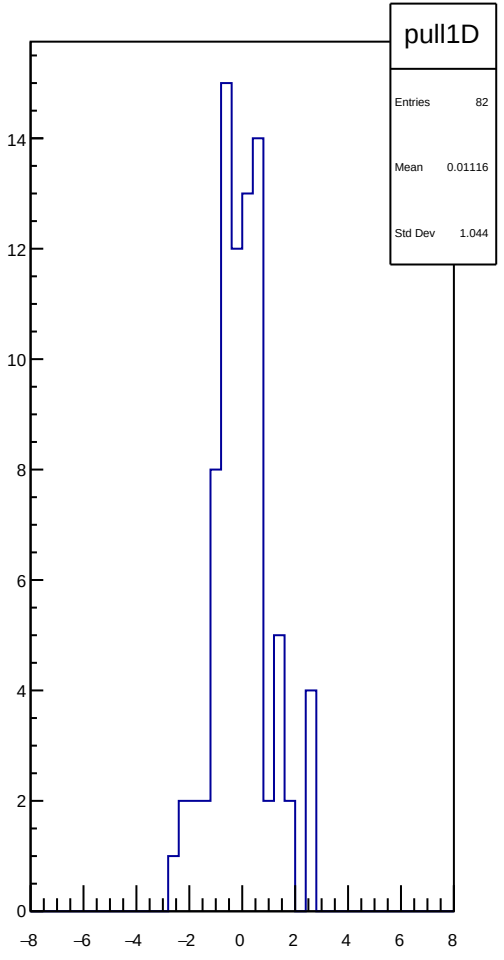

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 4.734e+04 / 81
p0 10.23 ± 0.008121
20
18
16
14
12
10
8

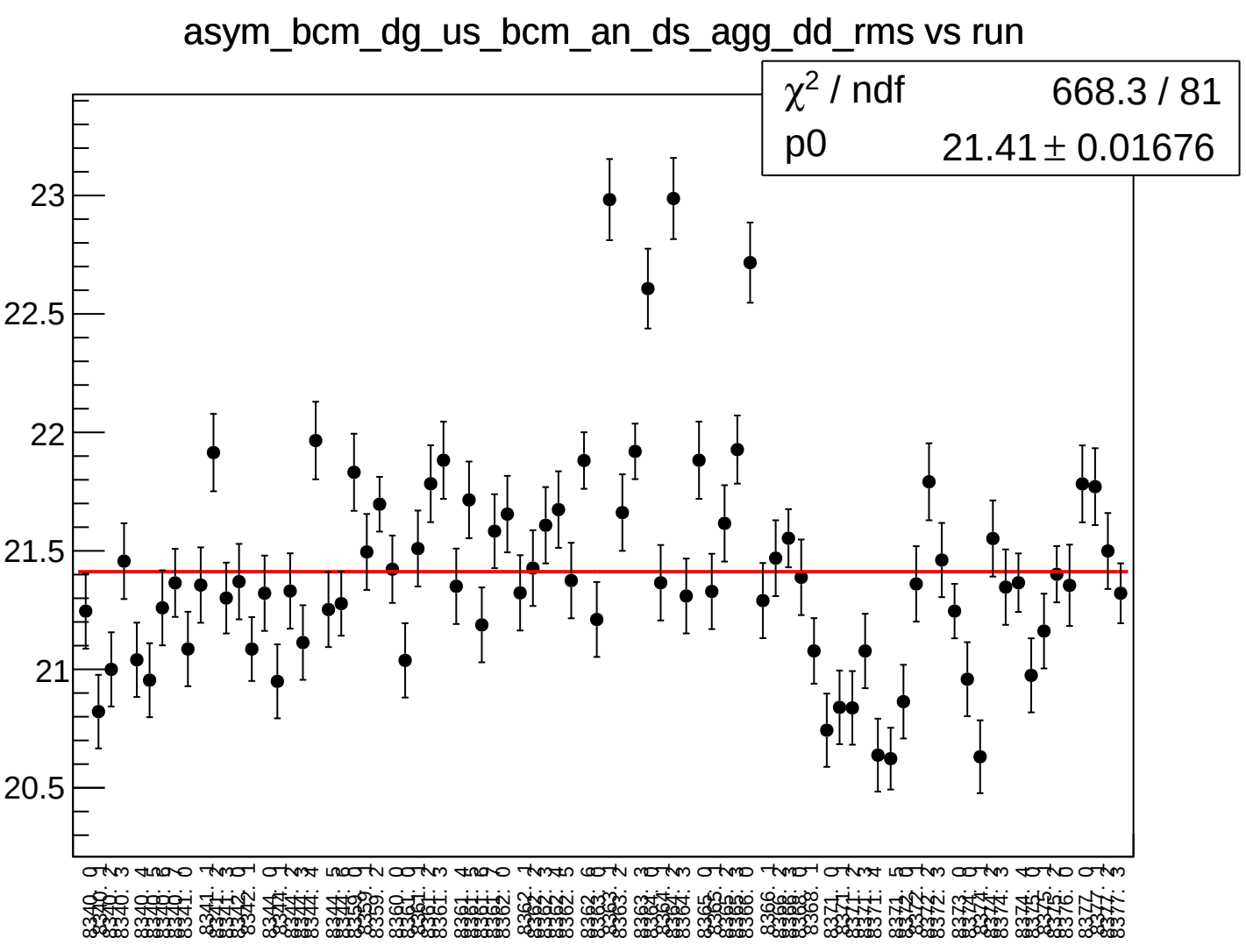

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 30.38 / 81
p0 455.3 ± 232.4
pull
Entries 82
Mean 43.77
Std Dev 63.72

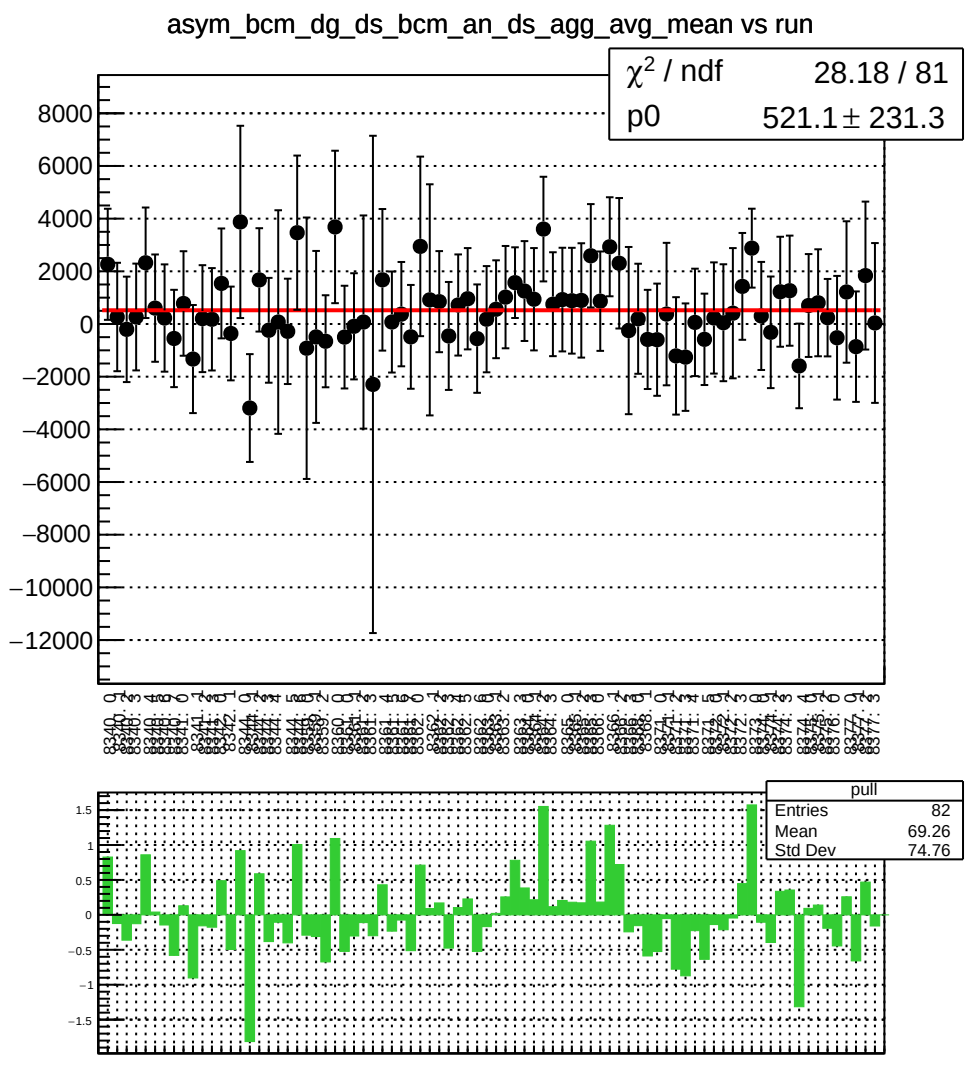

pull1D
Entries 82
Mean 0.007279
Std Dev 0.6086

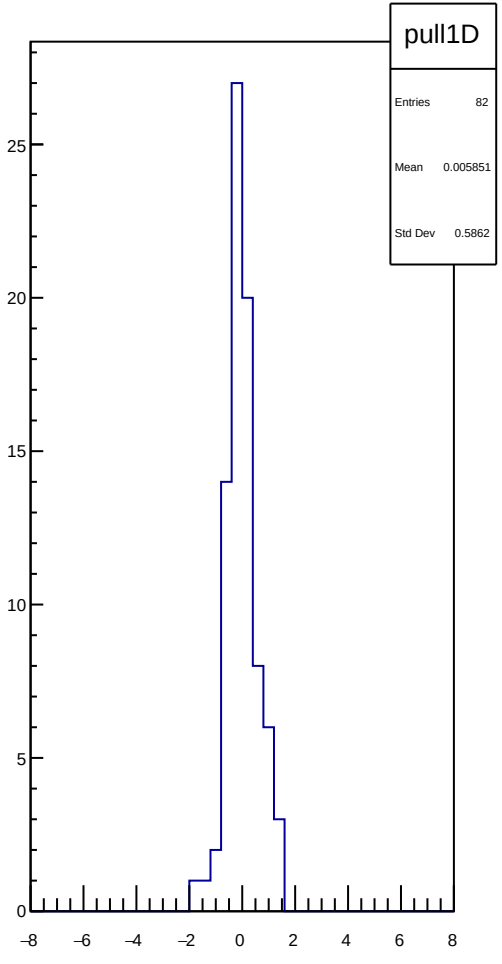

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6.858e+04 / 81
p0 205.6 ± 0.1643
900
800
700
600
500
400
300
200

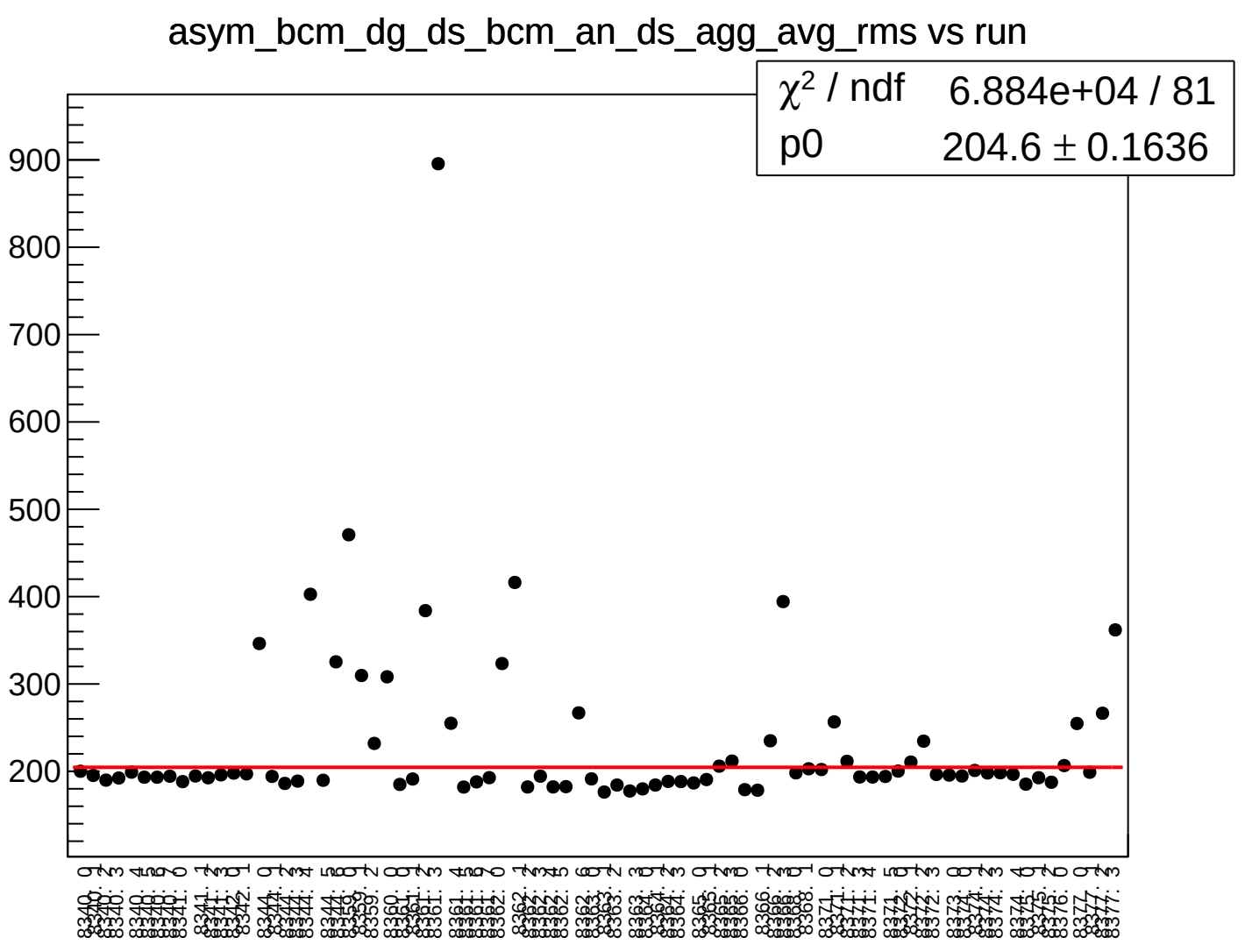

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 89.45 / 81
p0 −53.24 ± 23.7
pull
Entries 82
Mean −77.54
Std Dev 80.27

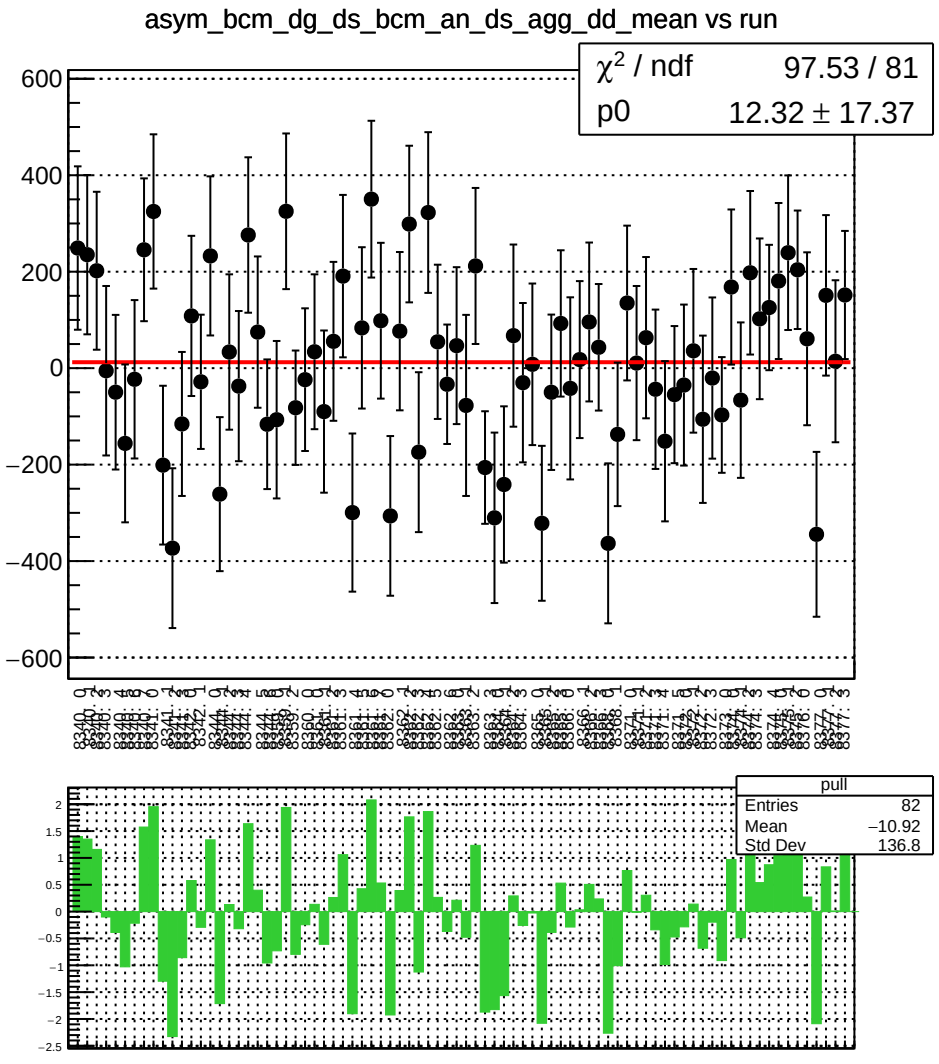

pull1D
Entries 82
Mean 0.01116
Std Dev 1.044

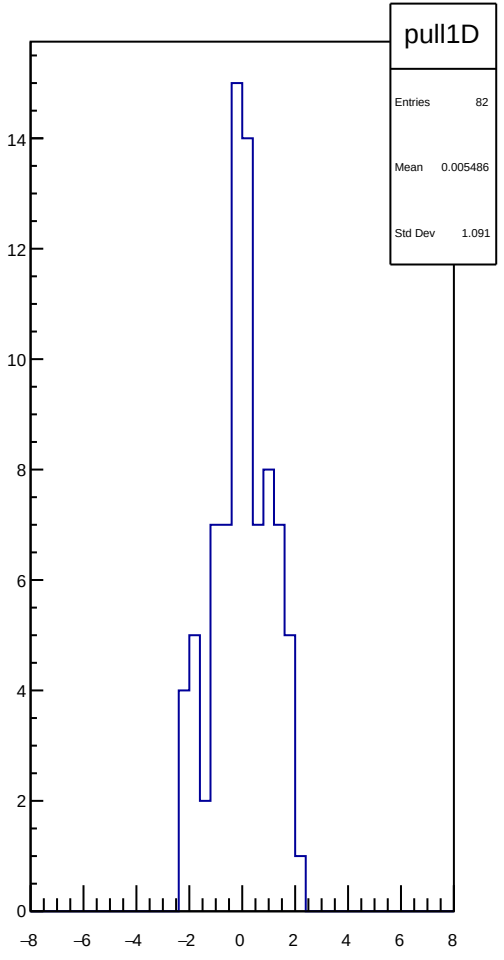

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 668.3 / 81
p0 21.41 ± 0.01676
23
22.5
22
21.5
21
20.5

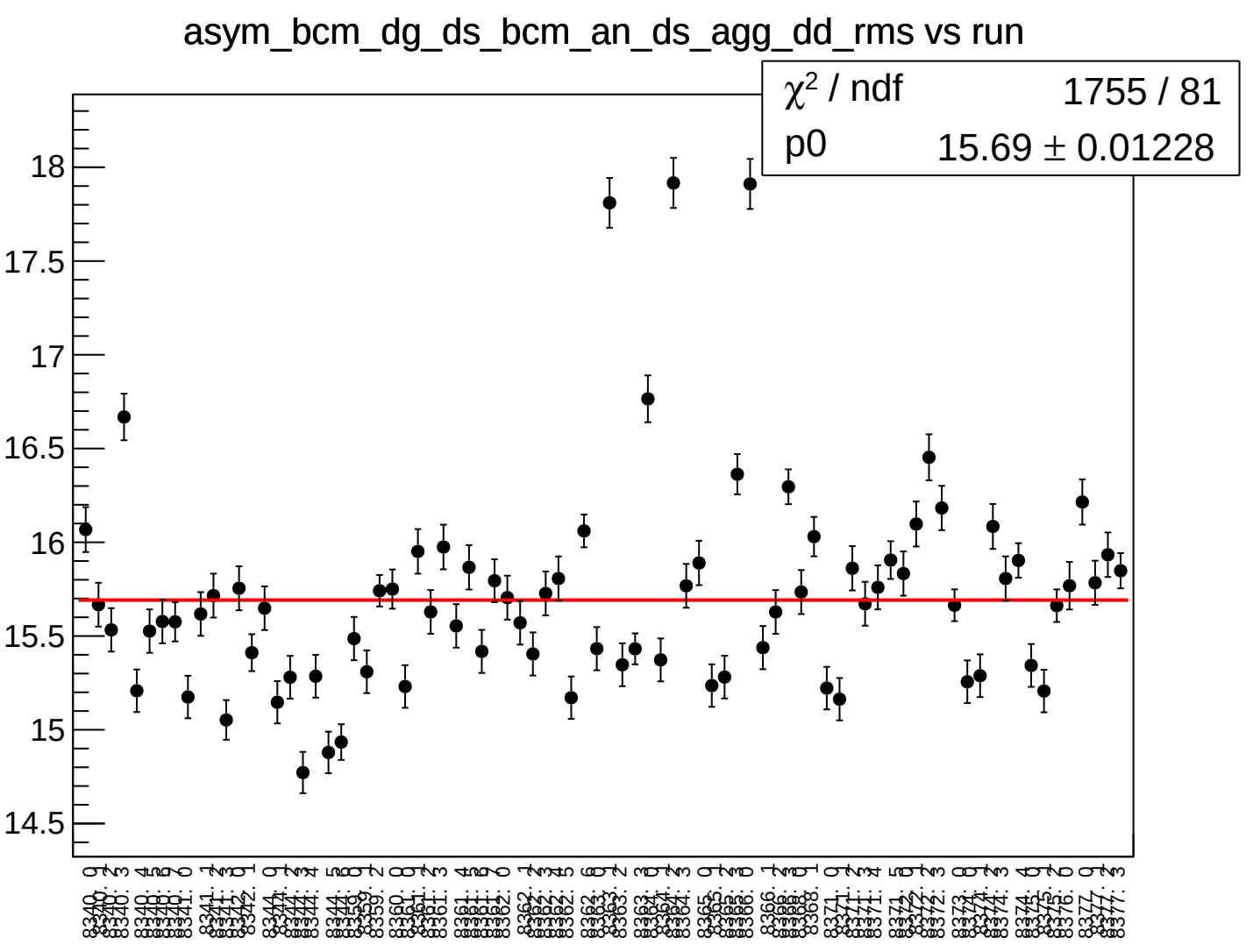

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 28.18 / 81
p0 521.1 ± 231.3
pull
Entries 82
Mean 69.26
Std Dev 74.76

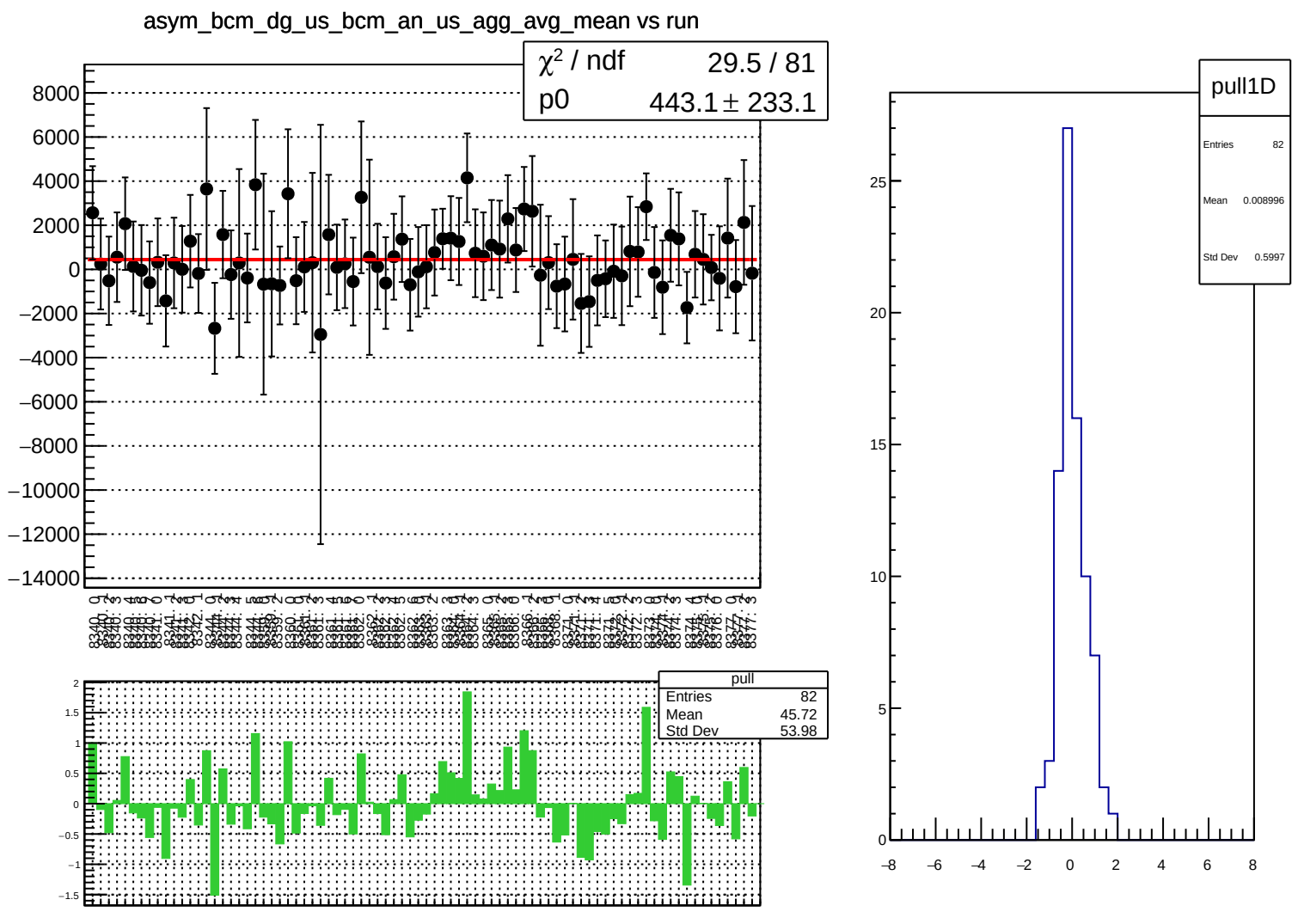

pull1D
Entries 82
Mean 0.005851
Std Dev 0.5862

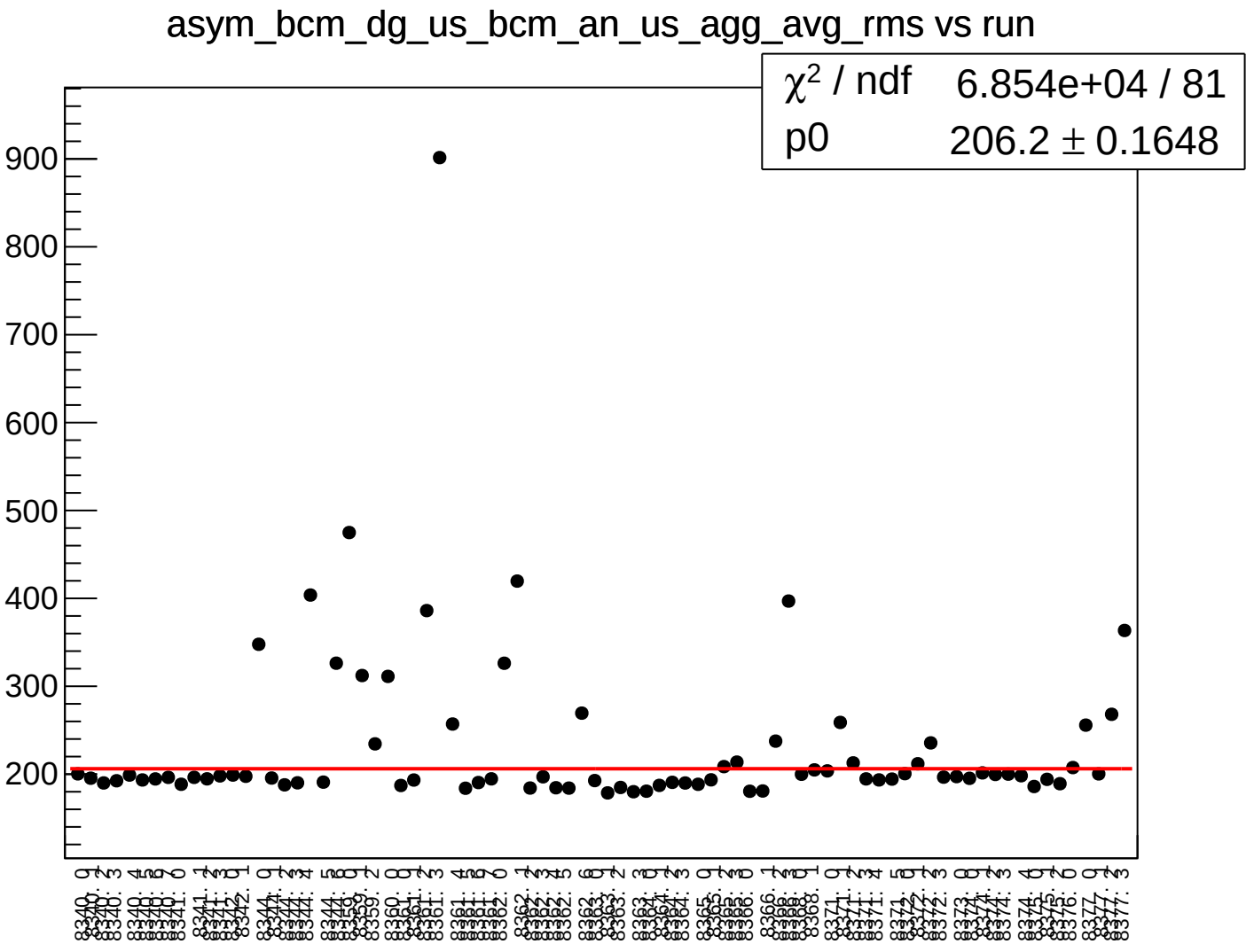

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6.884e+04 / 81
p0 204.6 ± 0.1636
900
800
700
600
500
400
300
200

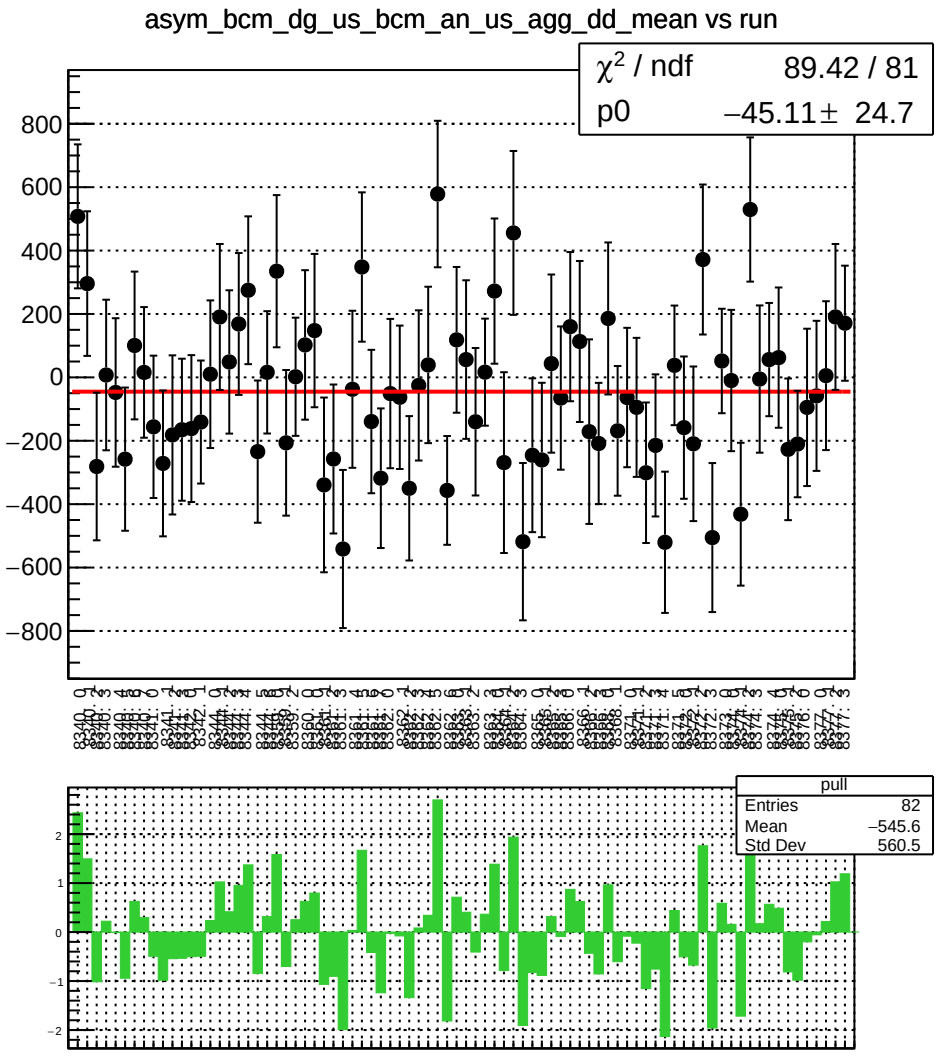

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 97.53 / 81
p0 12.32 ± 17.37
pull
Entries 82
Mean −10.92
Std Dev 136.8

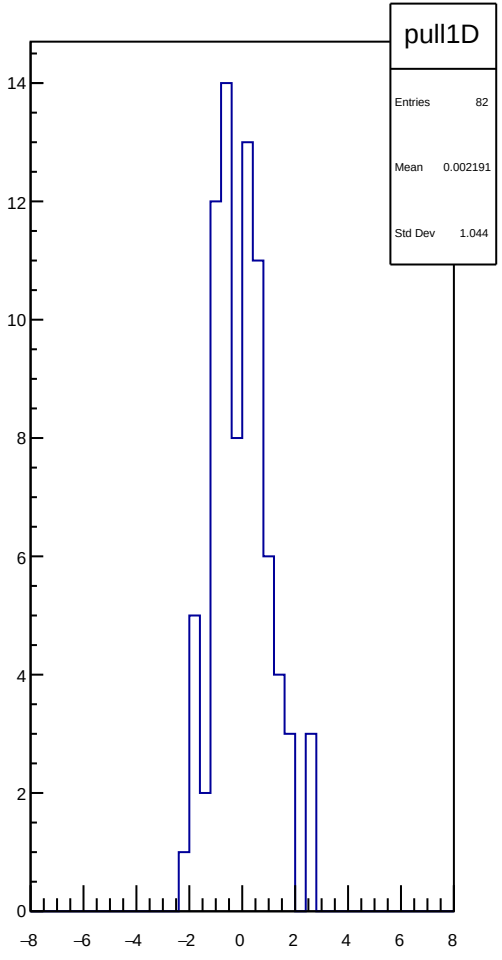

pull1D
Entries 82
Mean 0.005486
Std Dev 1.091

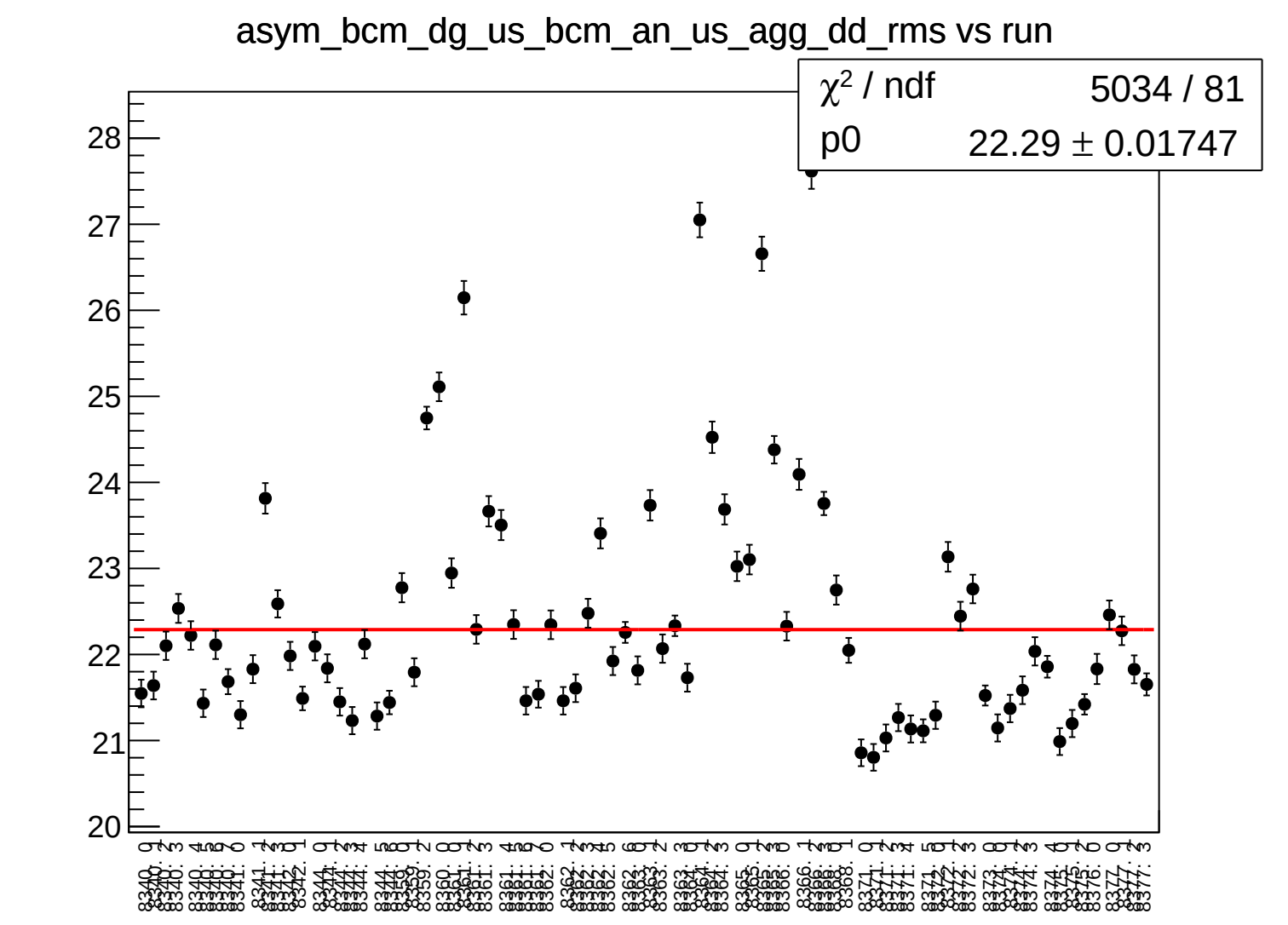

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1755 / 81
p0 15.69 ± 0.01228
18
17.5
17
16.5
16
15.5
15
14.5

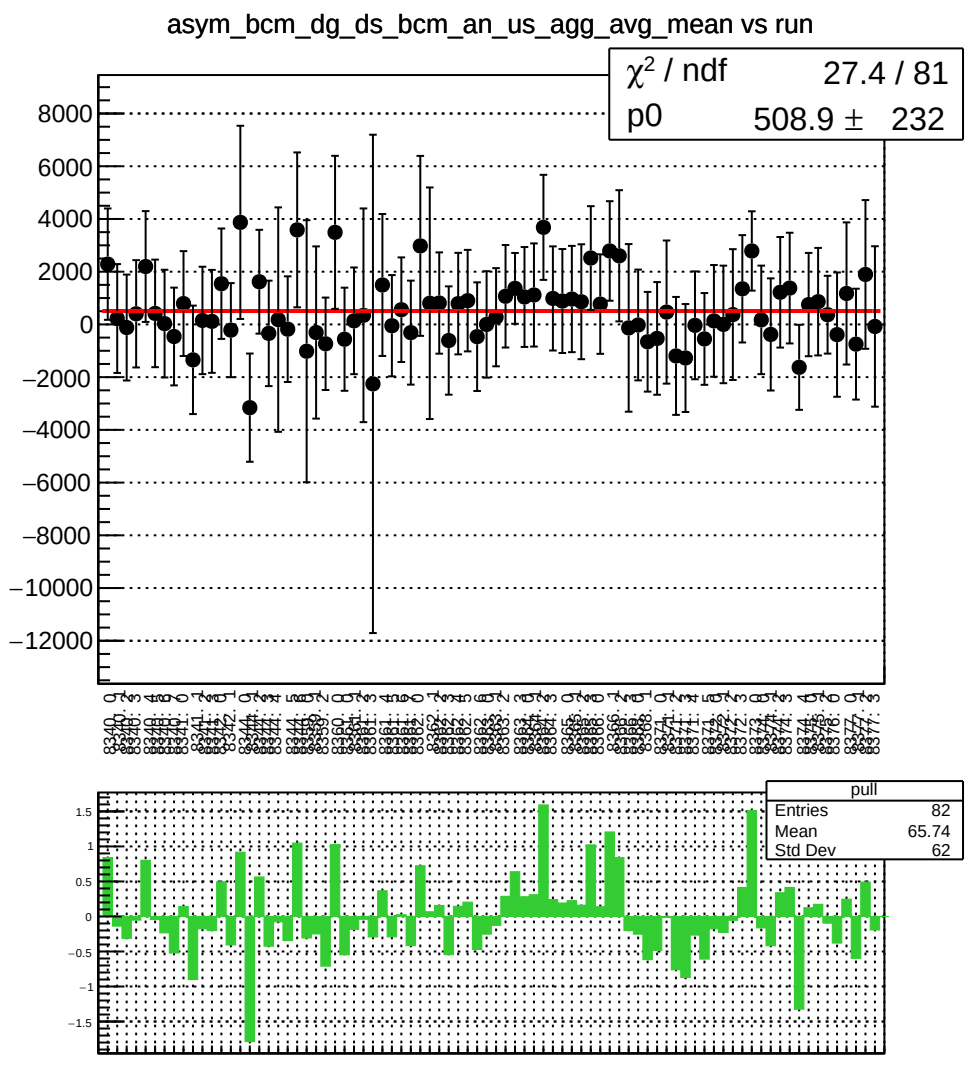

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 29.5 / 81
p0 443.1 ± 233.1
pull
Entries 82
Mean 45.72
Std Dev 53.98
pull1D
Entries 82
Mean 0.008996
Std Dev 0.5997

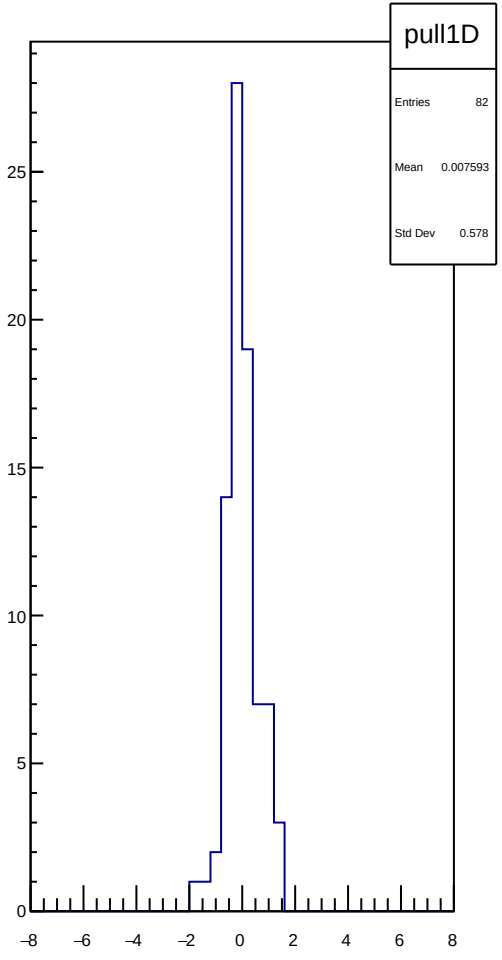

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 6.854e+04 / 81
p0 206.2 ± 0.1648
900
800
700
600
500
400
300
200

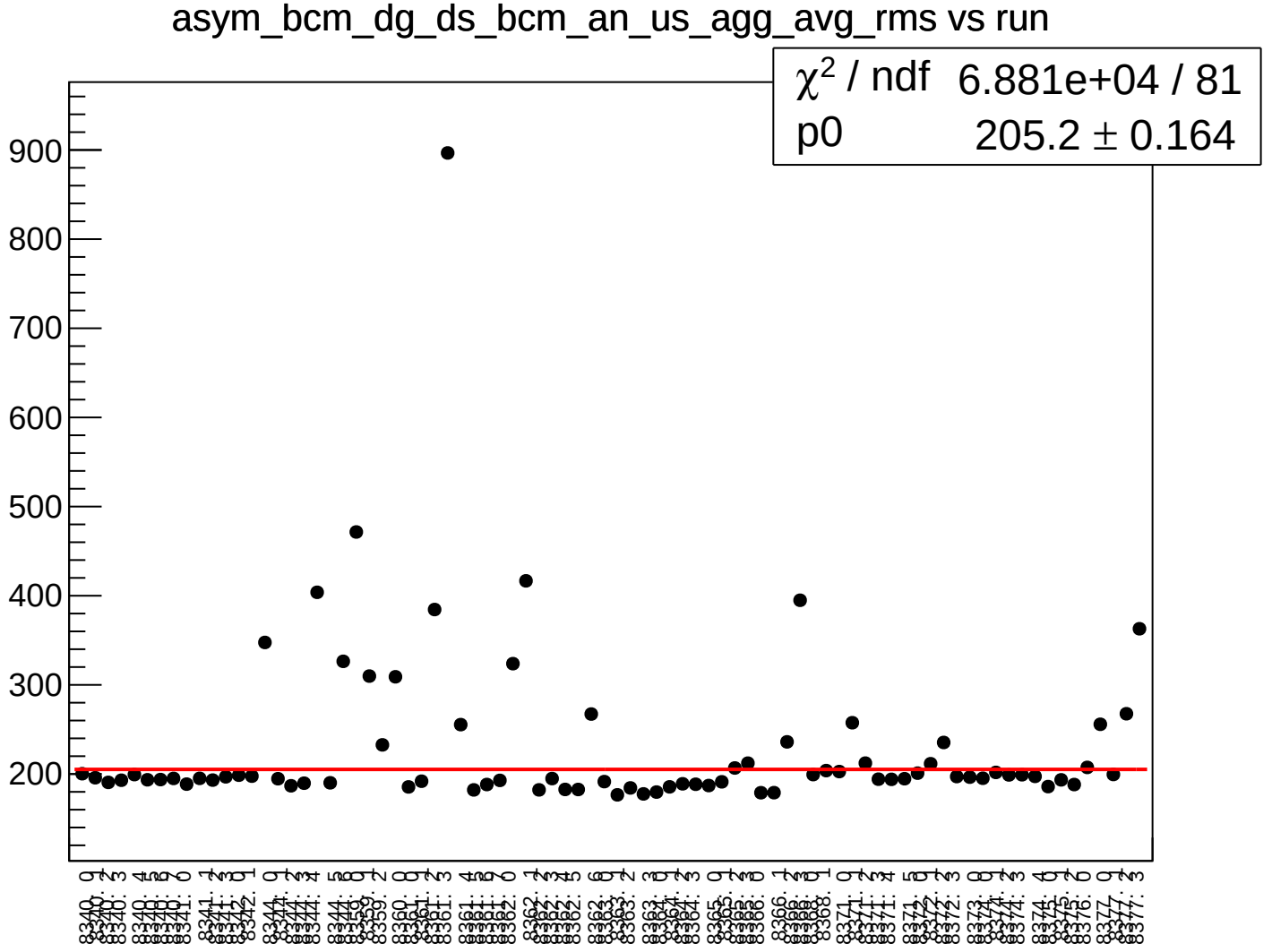

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 89.42 / 81
p0 −45.11 ± 24.7
pull
Entries 82
Mean −545.6
Std Dev 560.5

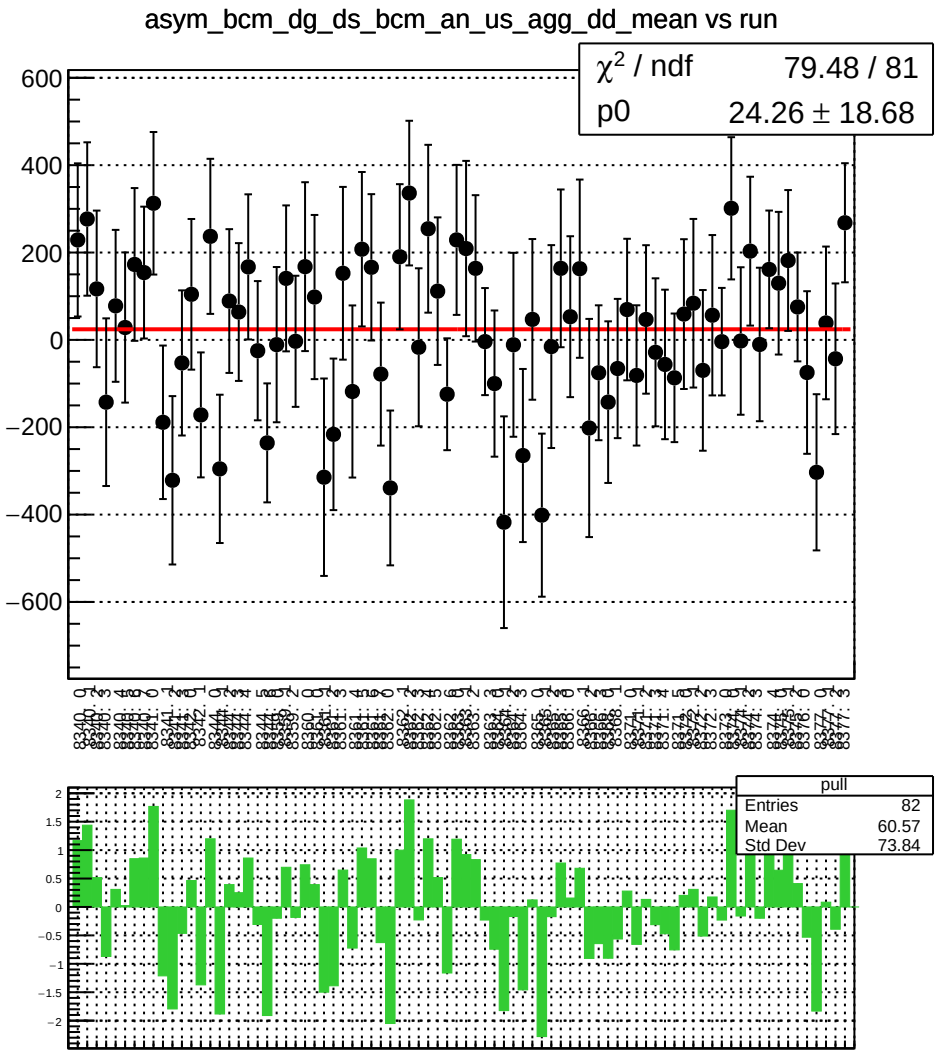

pull1D
Entries 82
Mean 0.002191
Std Dev 1.044

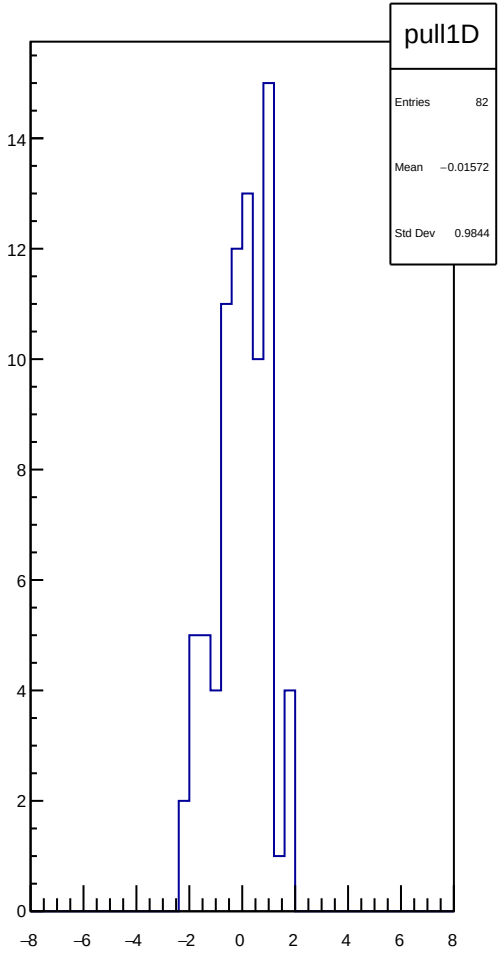

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 5034 / 81
p0 22.29 ± 0.01747
28
27
26
25
24
23
22
21
20

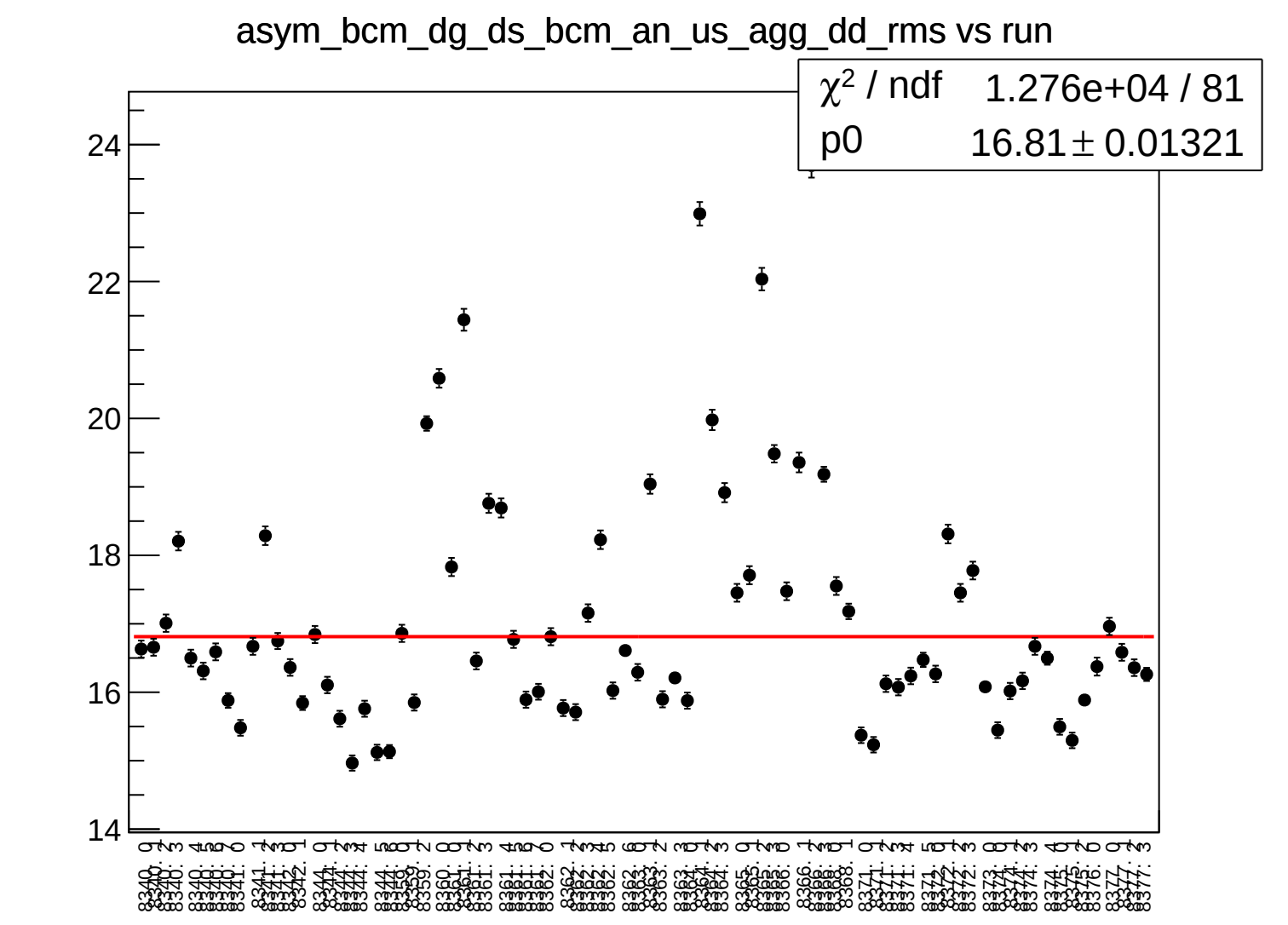

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 27.4 / 81
p0 508.9 ± 232
pull
Entries 82
Mean 65.74
Std Dev 62

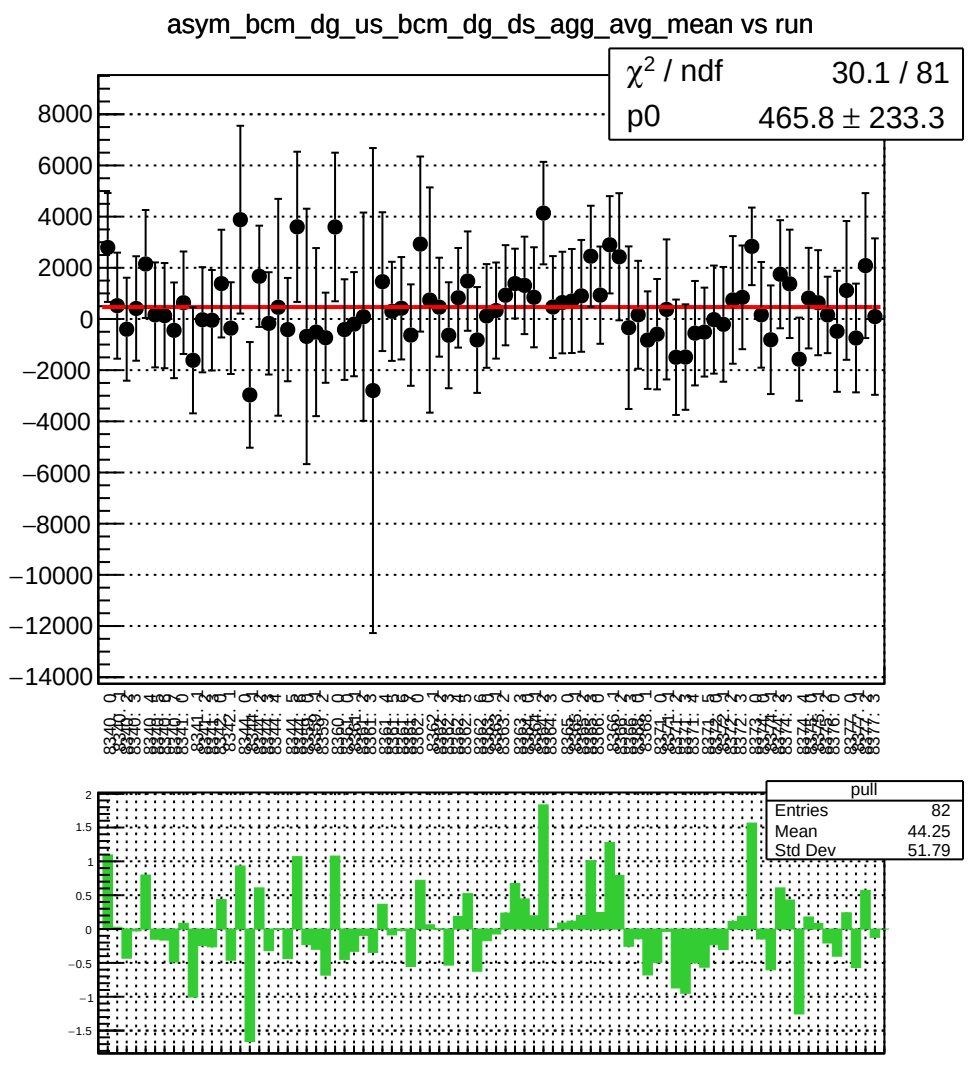

pull1D
Entries 82
Mean 0.007593
Std Dev 0.578

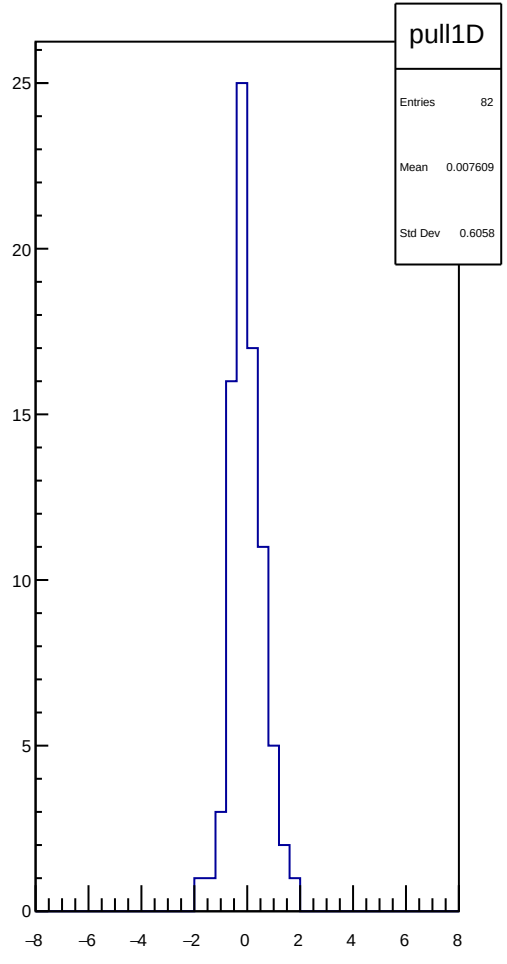

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 6.881e+04 / 81
p0 205.2 ± 0.164
900
800
700
600
500
400
300
200

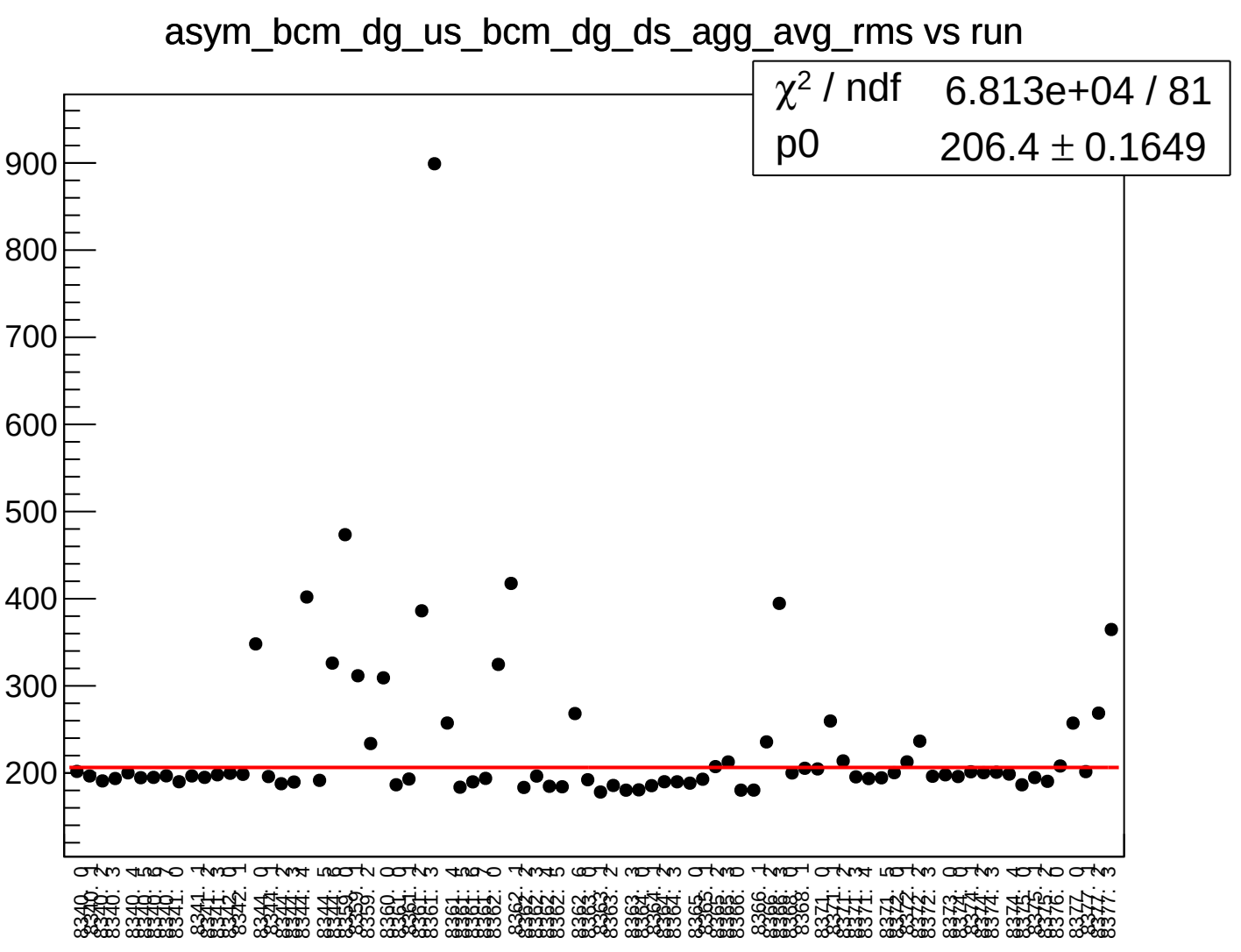

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 79.48 / 81
p0 24.26 ± 18.68
pull
Entries 82
Mean 60.57
Std Dev 73.84

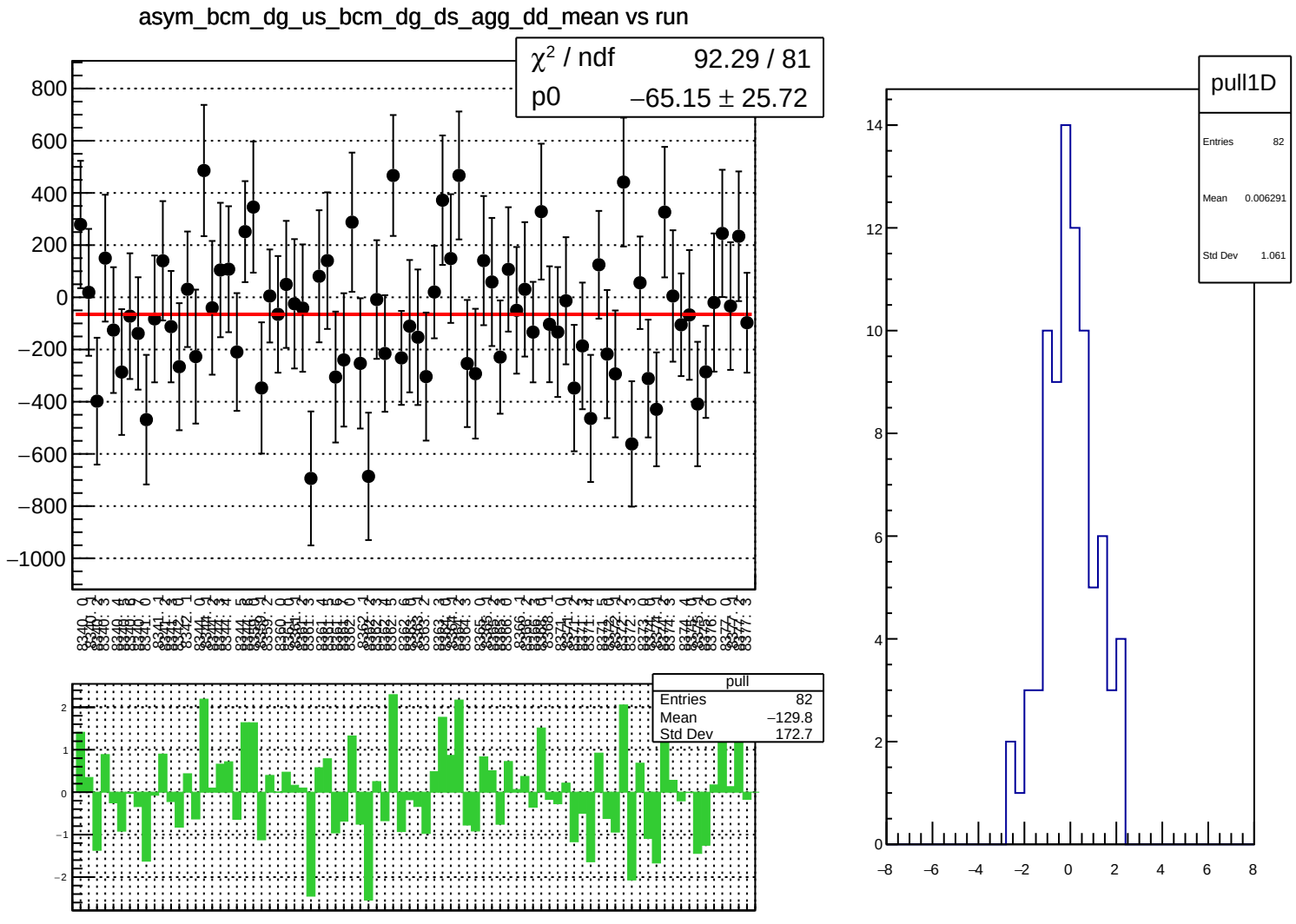

pull1D
Entries 82
Mean −0.01572
Std Dev 0.9844

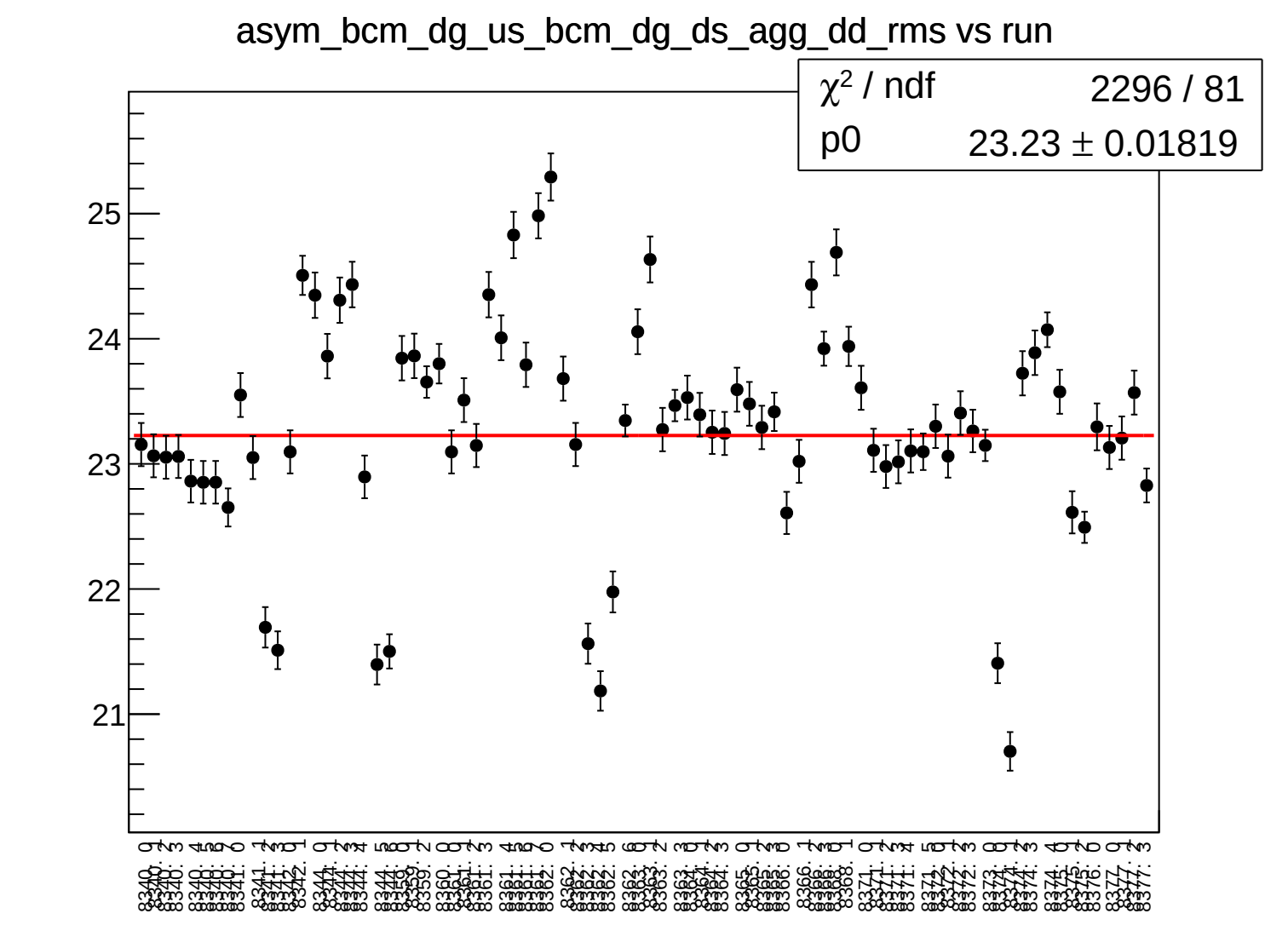

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.276e+04 / 81
p0 16.81 ± 0.01321
24
22
20
18
16
14

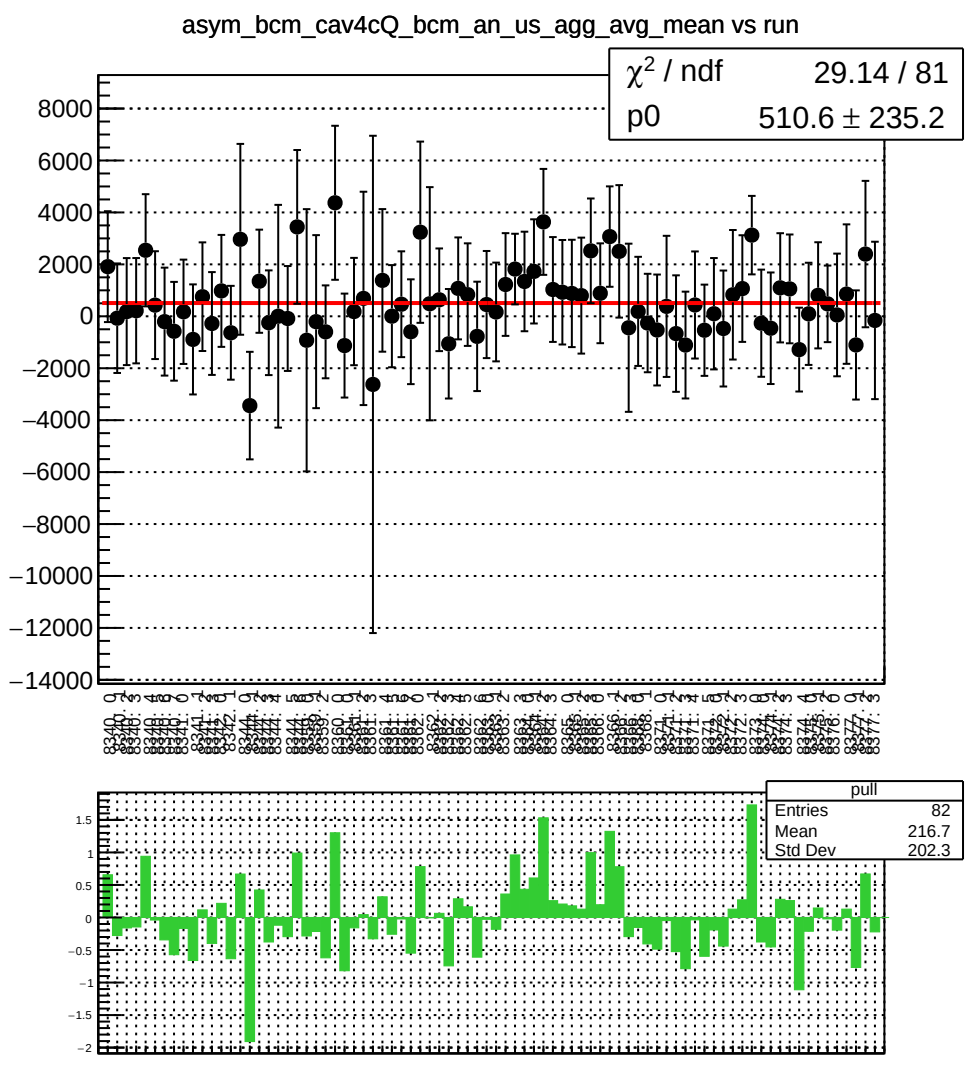

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 30.1 / 81
p0 465.8 ± 233.3
pull
Entries 82
Mean 44.25
Std Dev 51.79

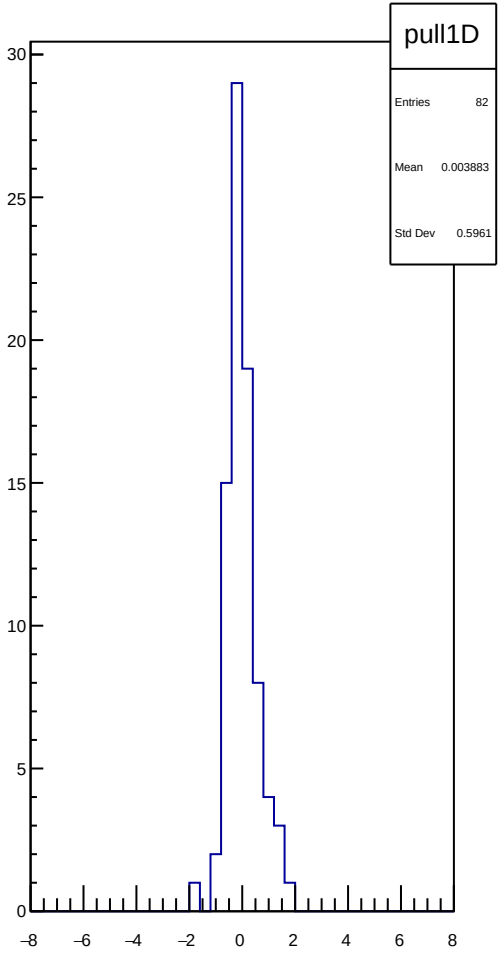

pull1D
Entries 82
Mean 0.007609
Std Dev 0.6058

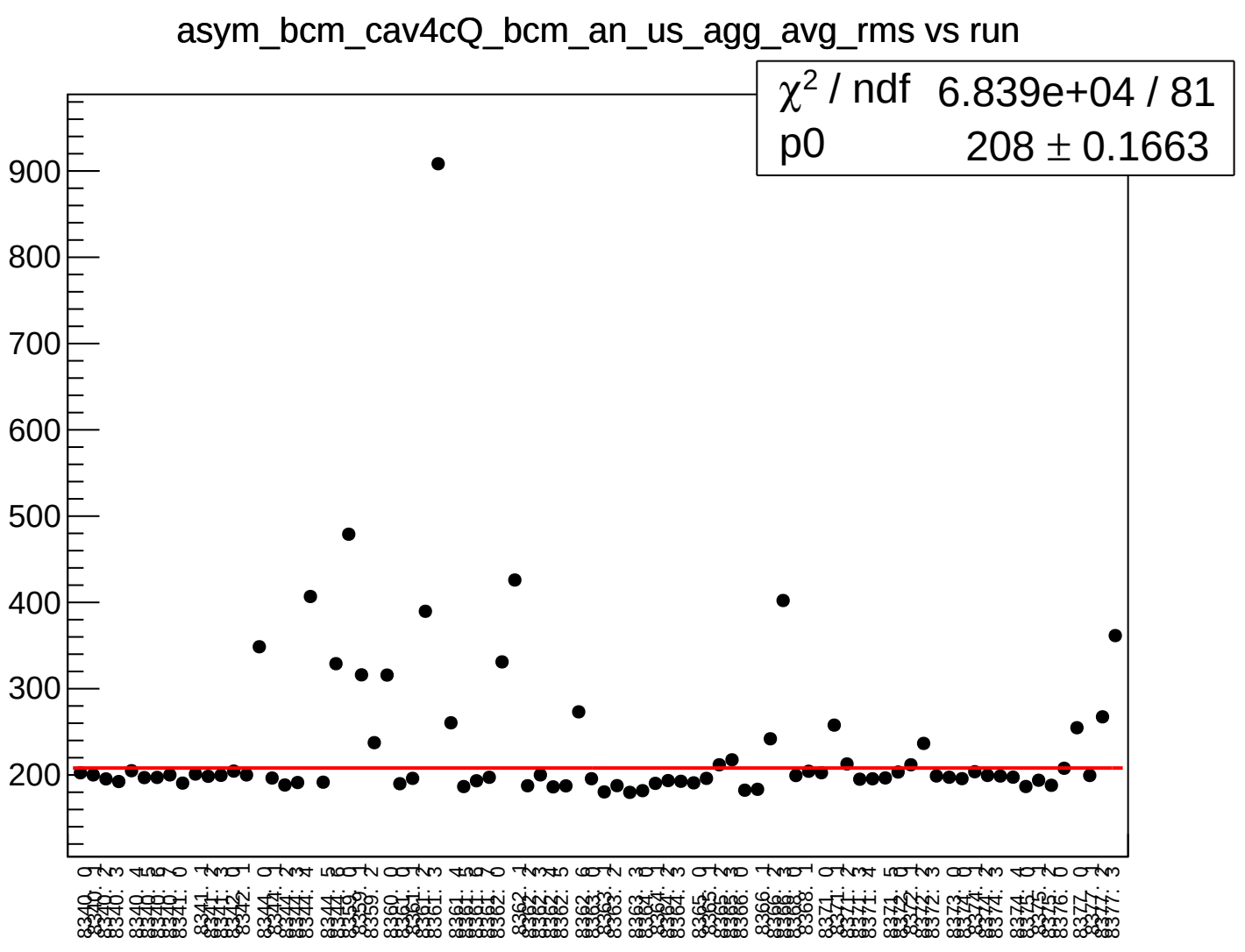

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 6.813e+04 / 81
p0 206.4 ± 0.1649
900
800
700
600
500
400
300
200

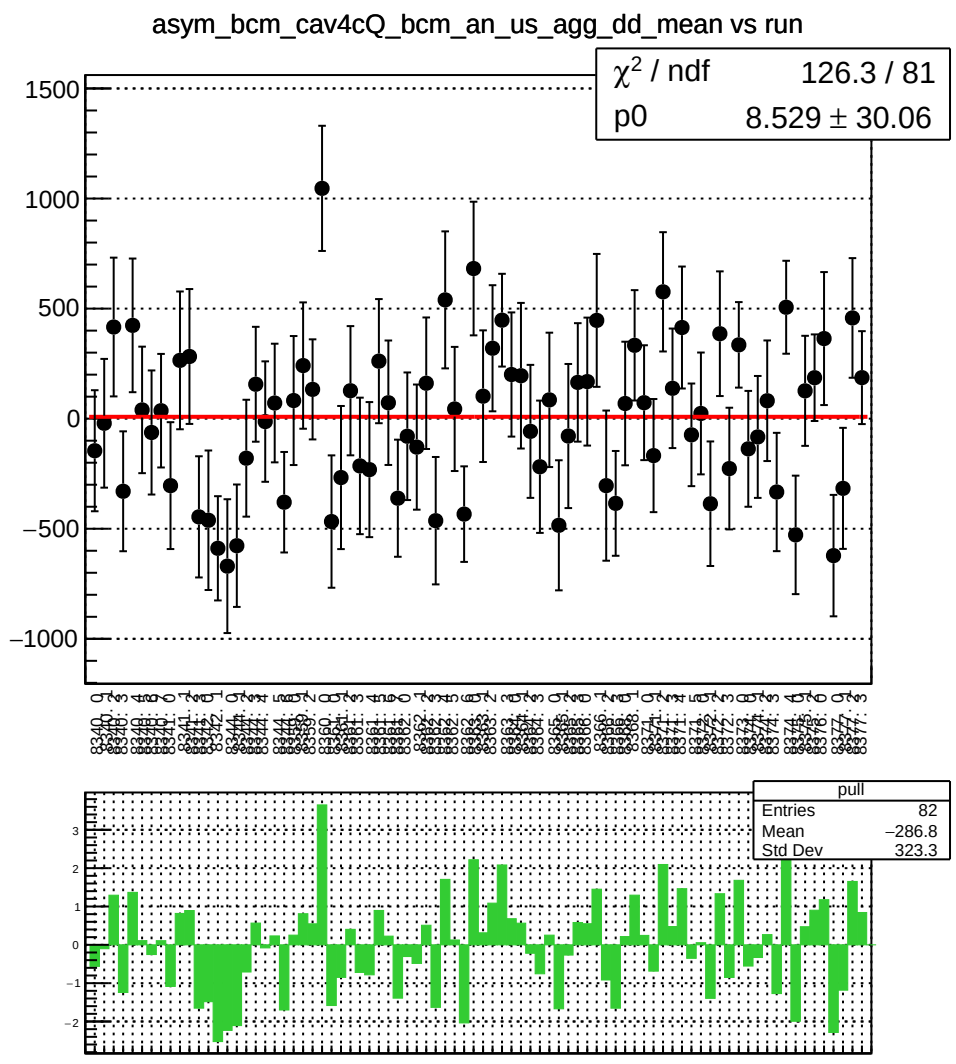

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 92.29 / 81
p0 −65.15 ± 25.72
pull
Entries 82
Mean −129.8
Std Dev 172.7
pull1D
Entries 82
Mean 0.006291
Std Dev 1.061

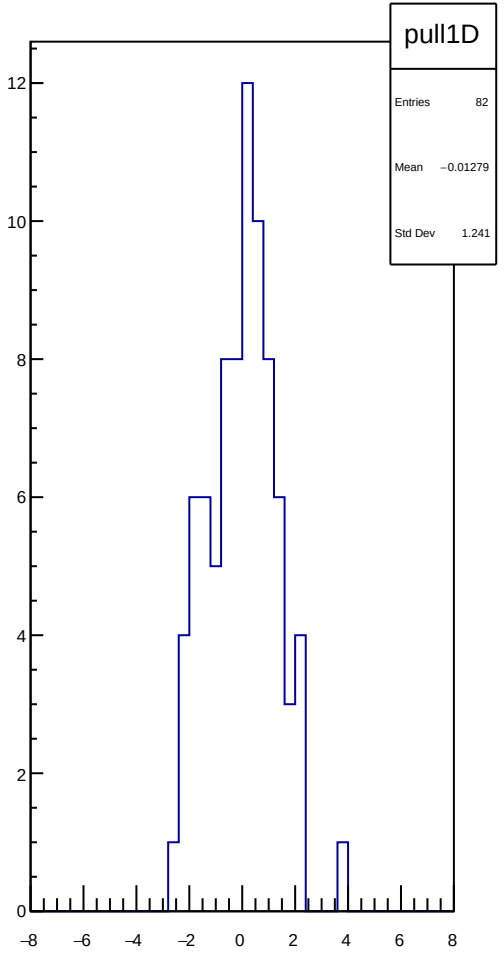

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2296 / 81
p0 23.23 ± 0.01819
25
24
23
22
21

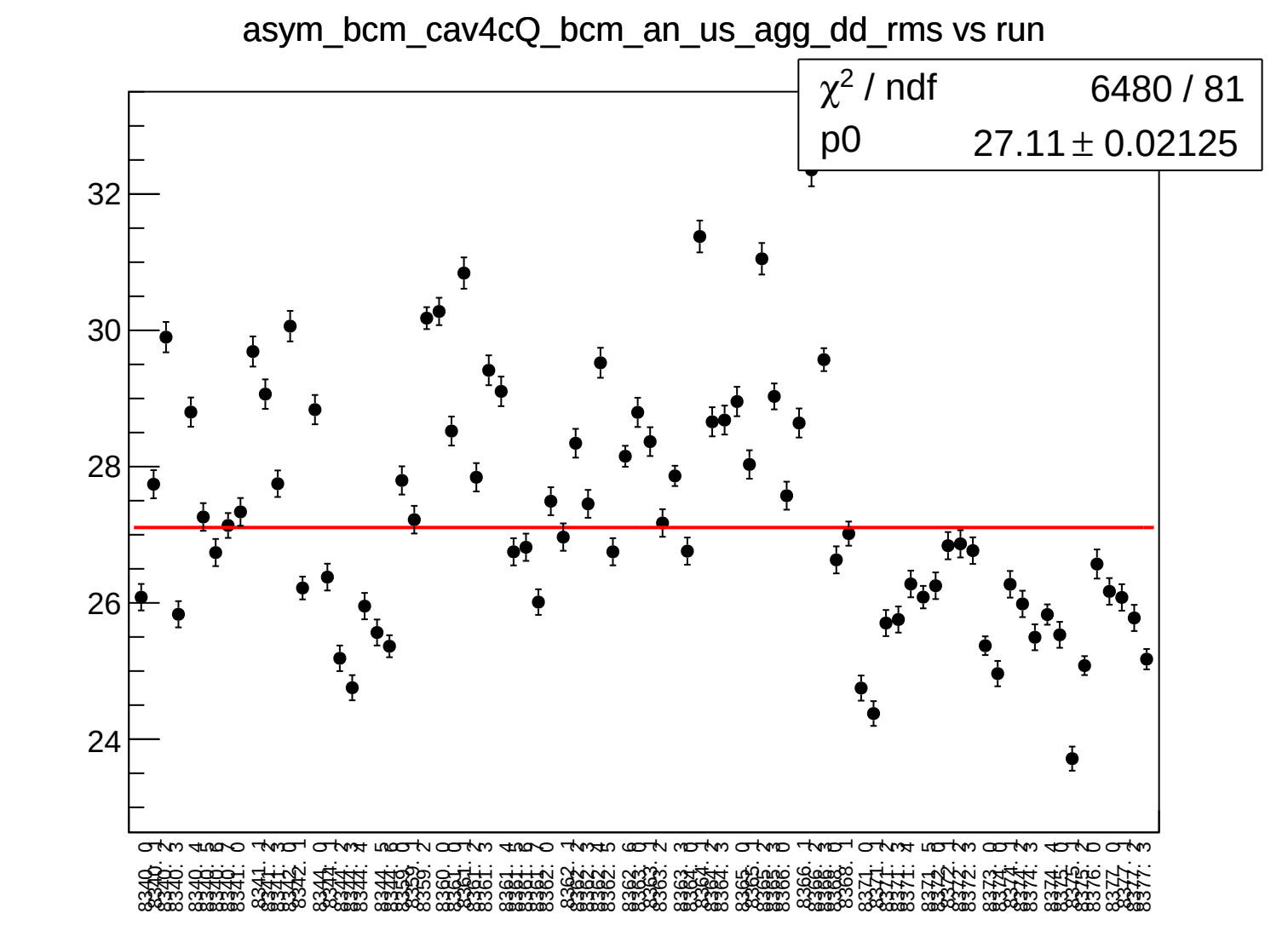

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 29.14 / 81
p0 510.6 ± 235.2
pull
Entries 82
Mean 216.7
Std Dev 202.3

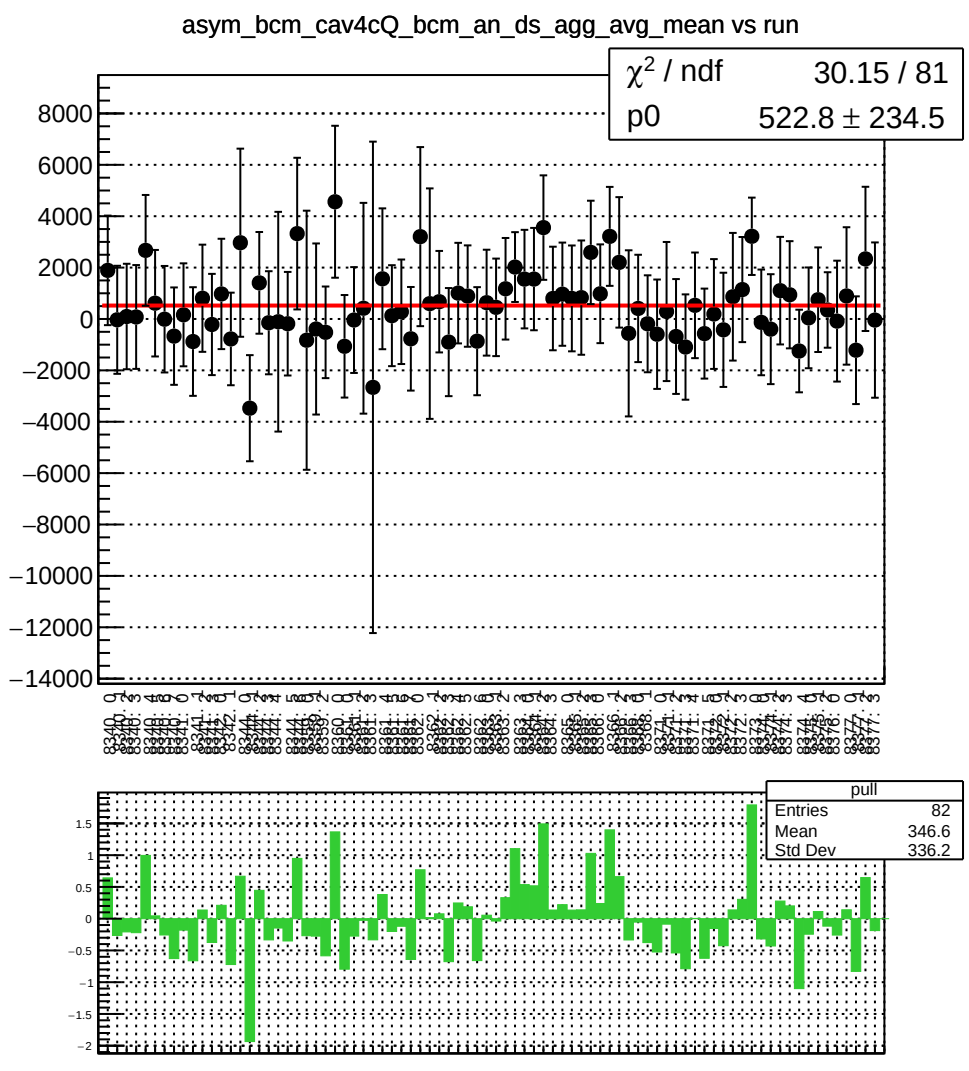

pull1D
Entries 82
Mean 0.003883
Std Dev 0.5961

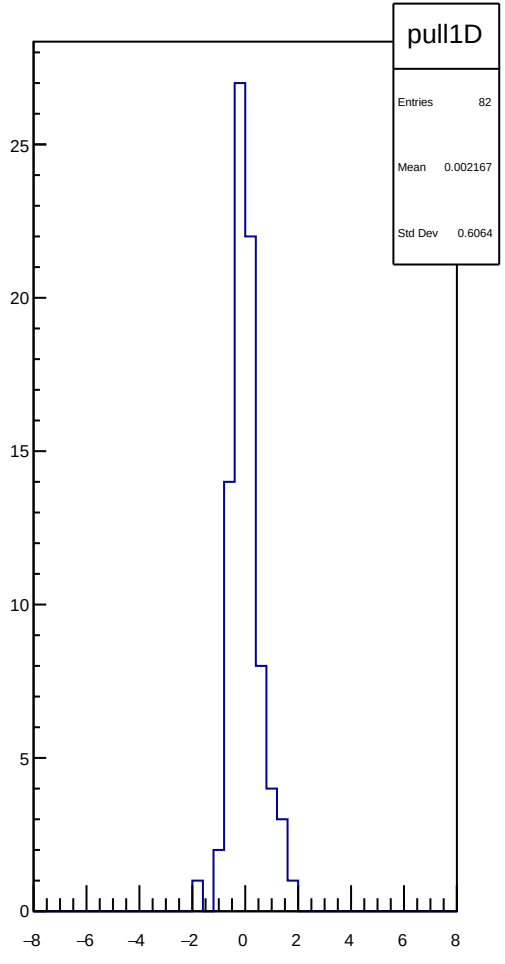

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 6.839e+04 / 81
p0 208 ± 0.1663
900
800
700
600
500
400
300
200

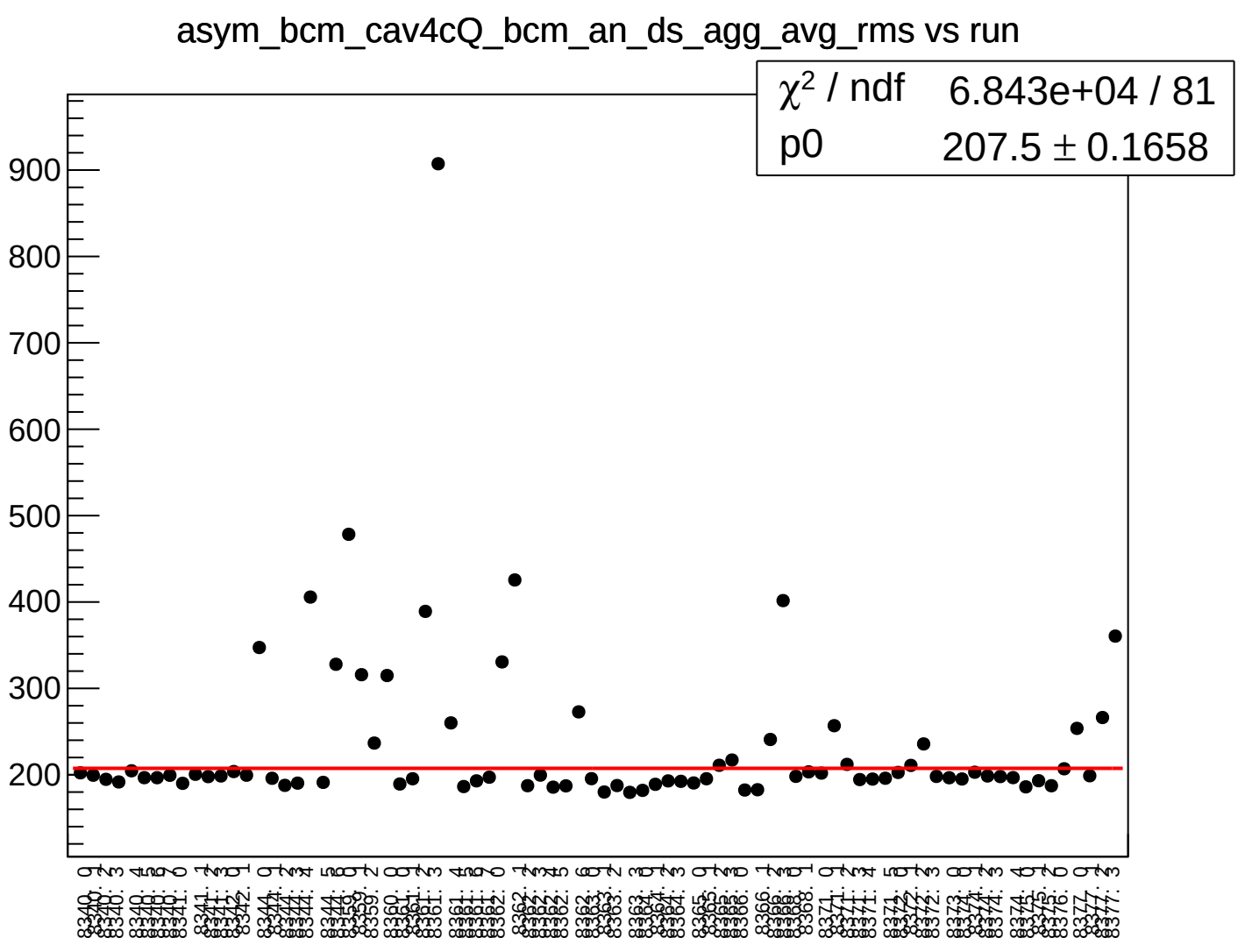

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 126.3 / 81
p0 8.529 ± 30.06
pull
Entries 82
Mean −286.8
Std Dev 323.3

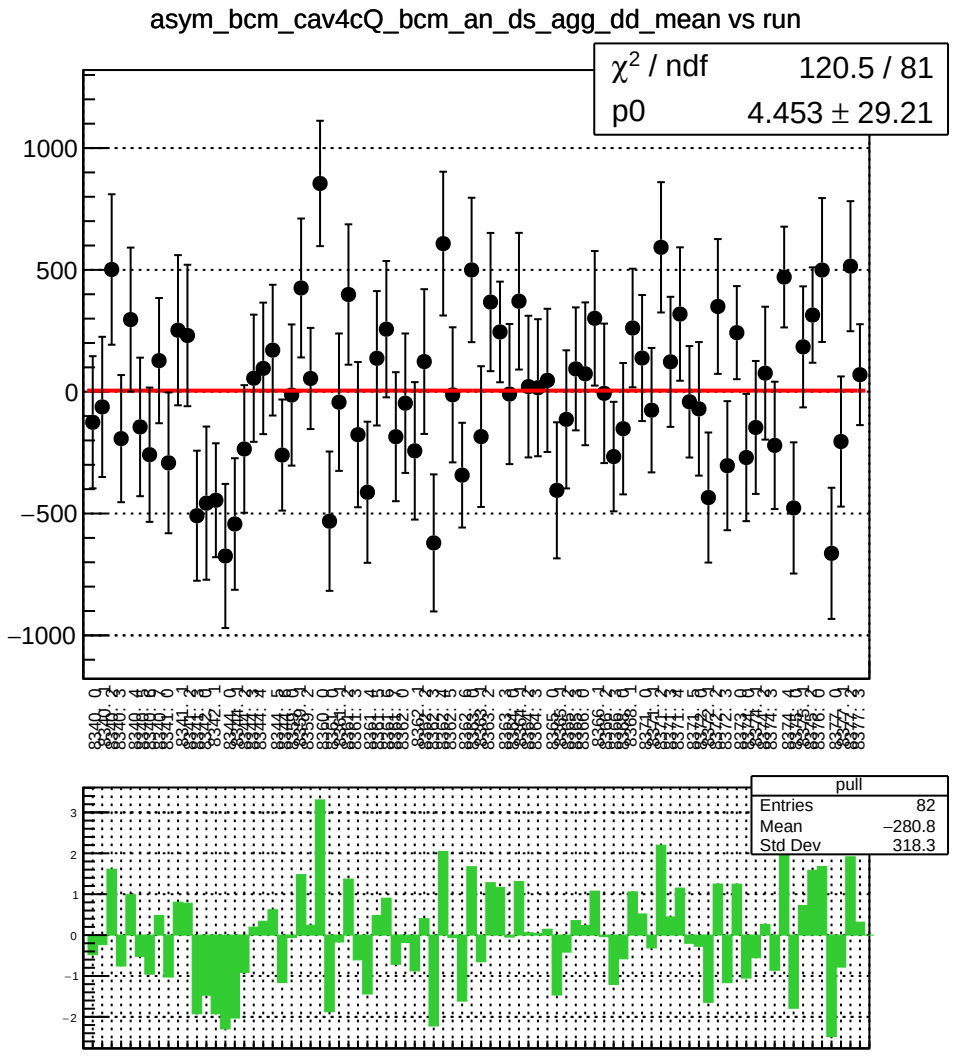

pull1D
Entries 82
Mean −0.01279
Std Dev 1.241

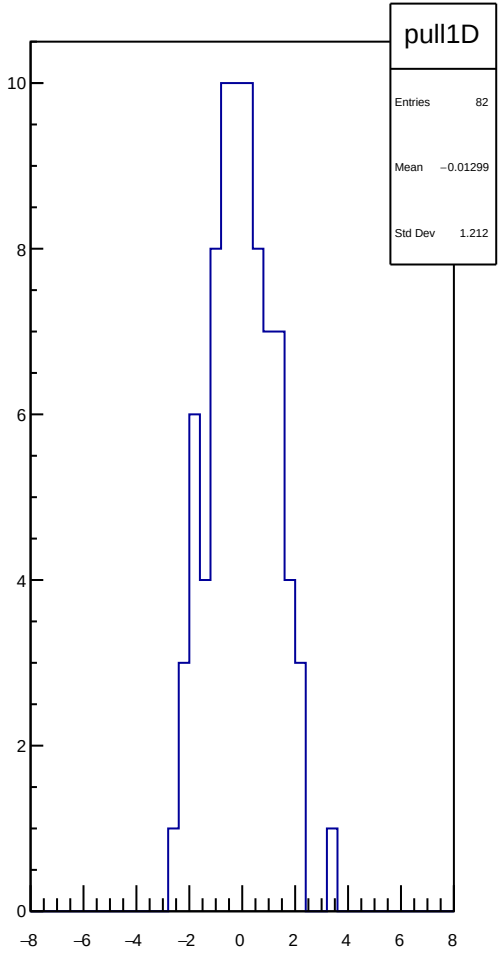

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 6480 / 81
p0 27.11 ± 0.02125
32
30
28
26
24

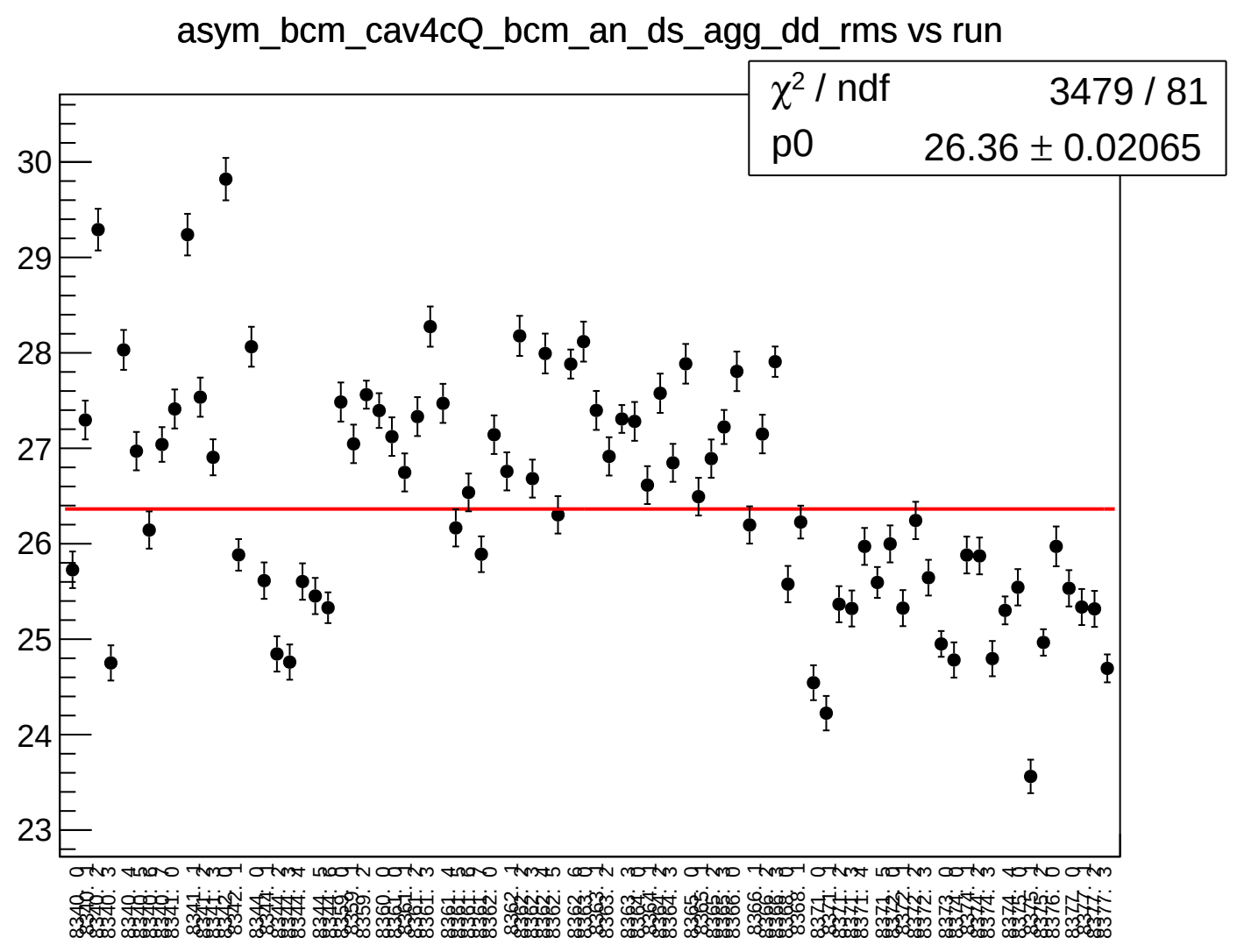

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 30.15 / 81
p0 522.8 ± 234.5
pull
Entries 82
Mean 346.6
Std Dev 336.2

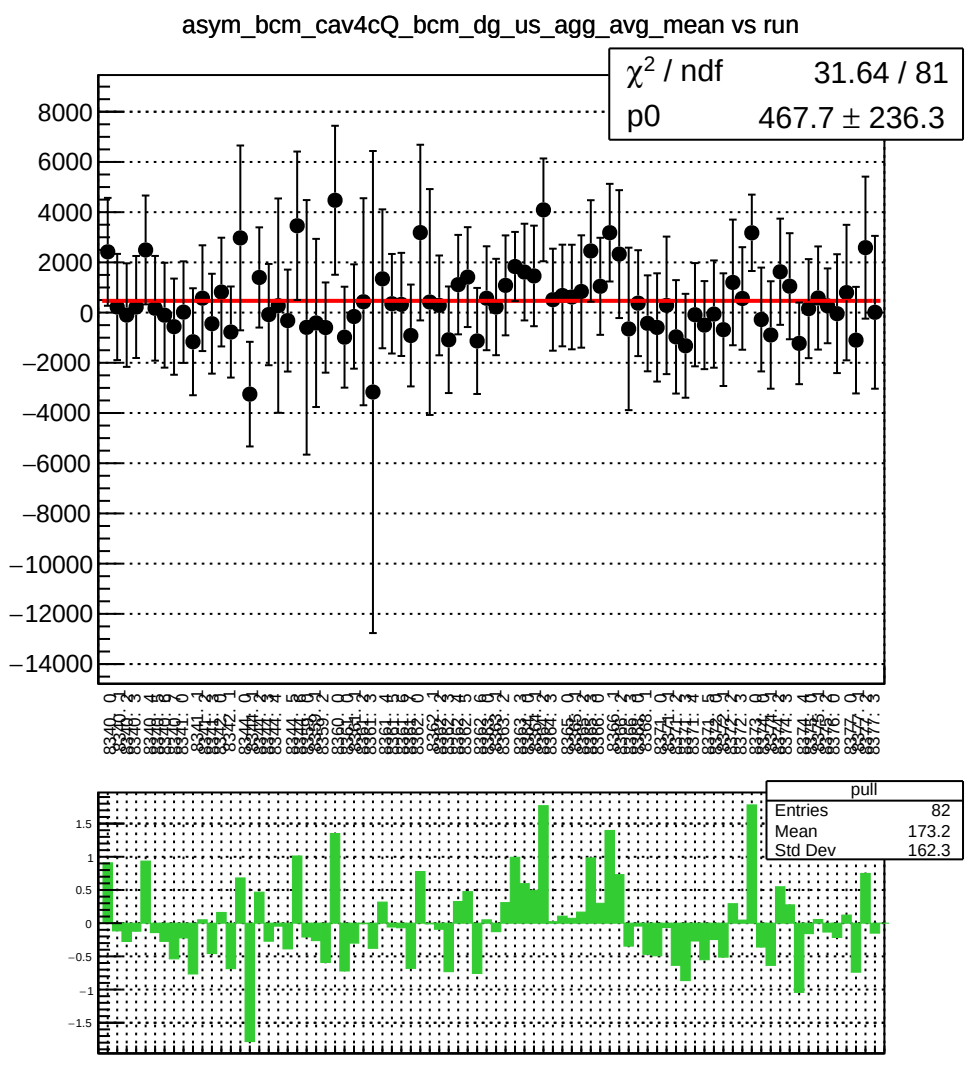

pull1D
Entries 82
Mean 0.002167
Std Dev 0.6064

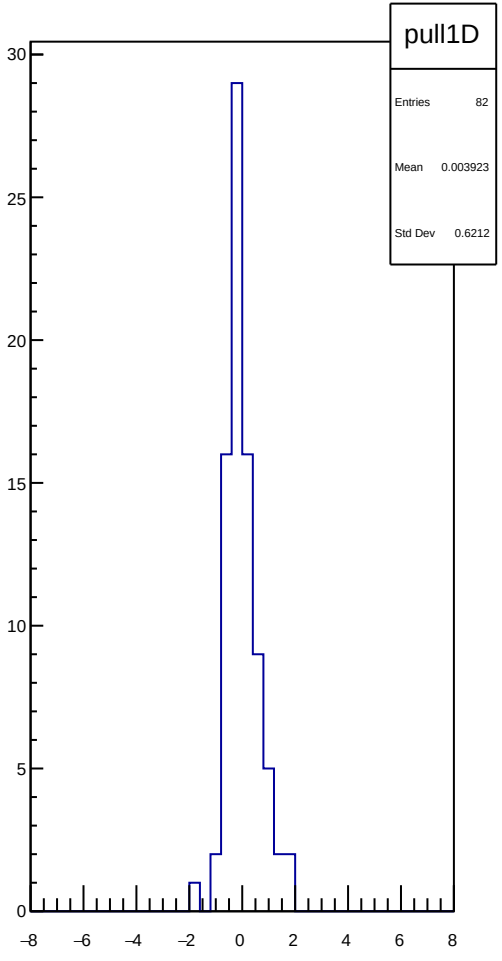

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6.843e+04 / 81
p0 207.5 ± 0.1658
900
800
700
600
500
400
300
200

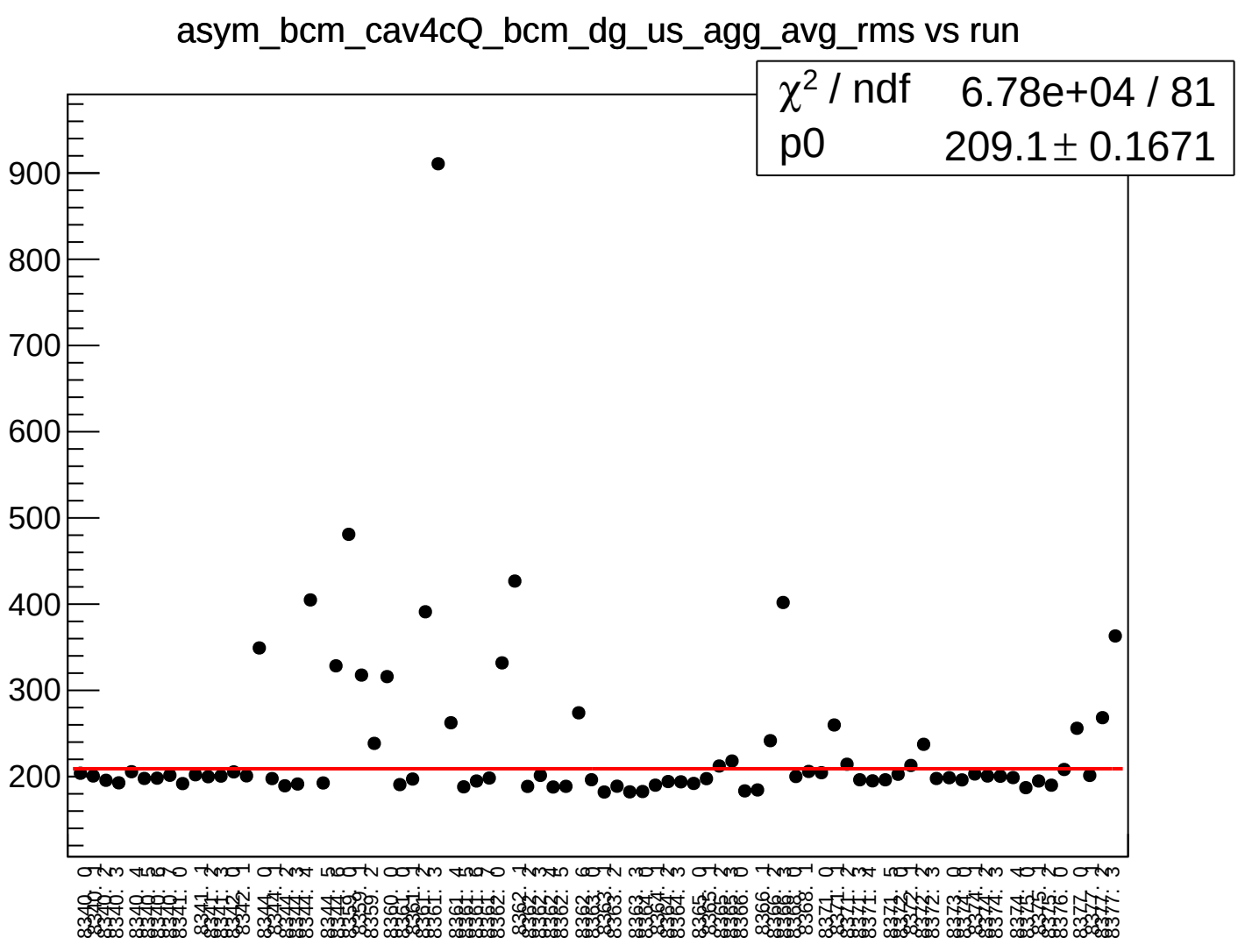

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 120.5 / 81
p0 4.453 ± 29.21
1000
500
0
−500
−1000
pull
Entries 82
Mean −280.8
Std Dev 318.3
3
2
1
0
−1
−2

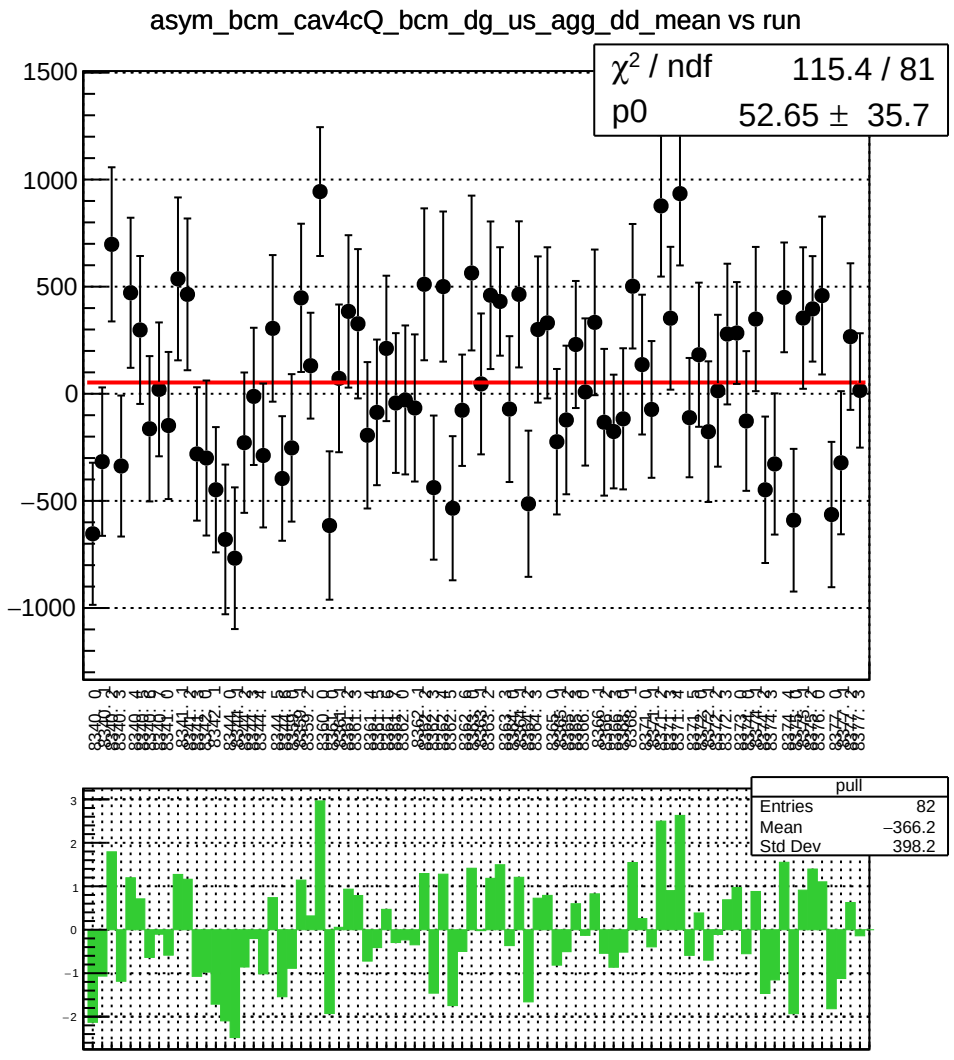

pull1D
Entries 82
Mean −0.01299
Std Dev 1.212
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

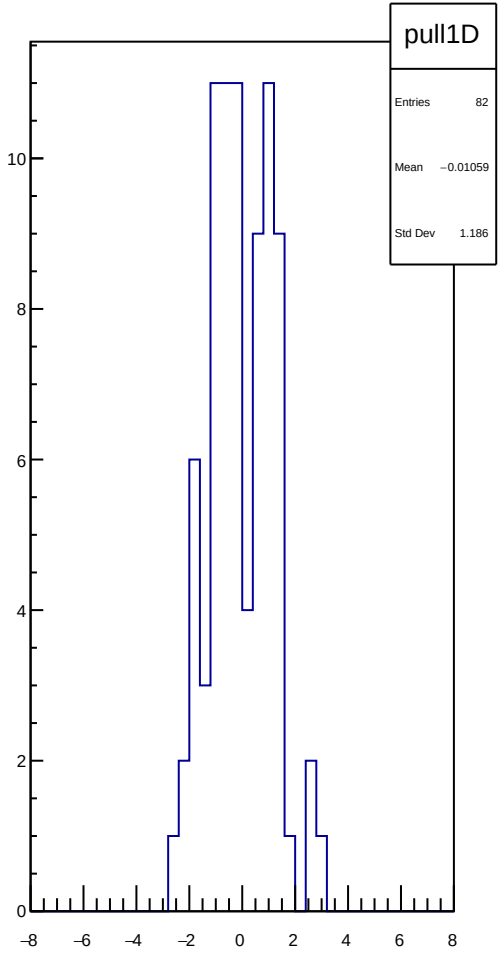

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3479 / 81
p0 26.36 ± 0.02065
30
29
28
27
26
25
24
23

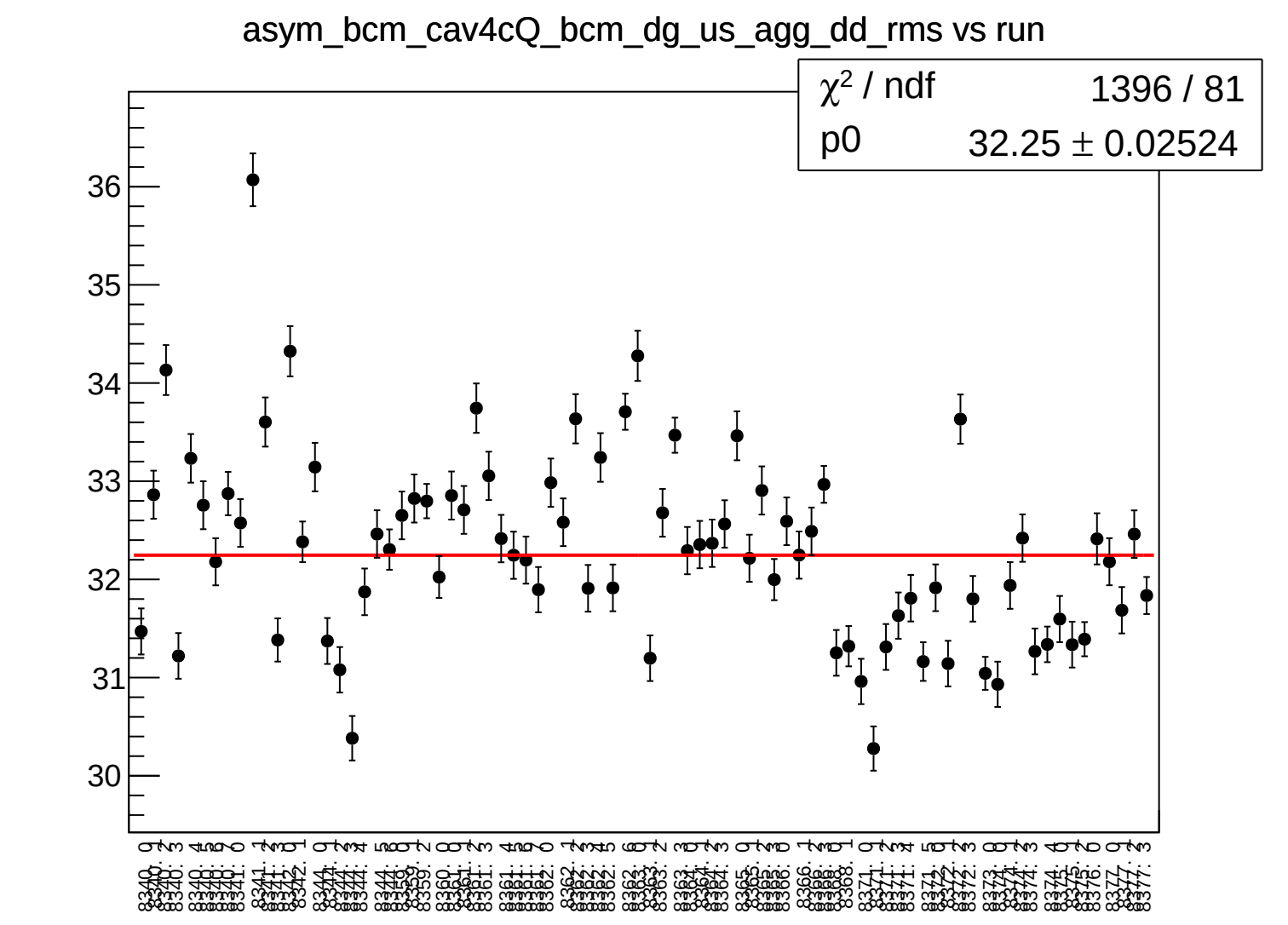

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 31.64 / 81
p0 467.7 ± 236.3
pull
Entries 82
Mean 173.2
Std Dev 162.3

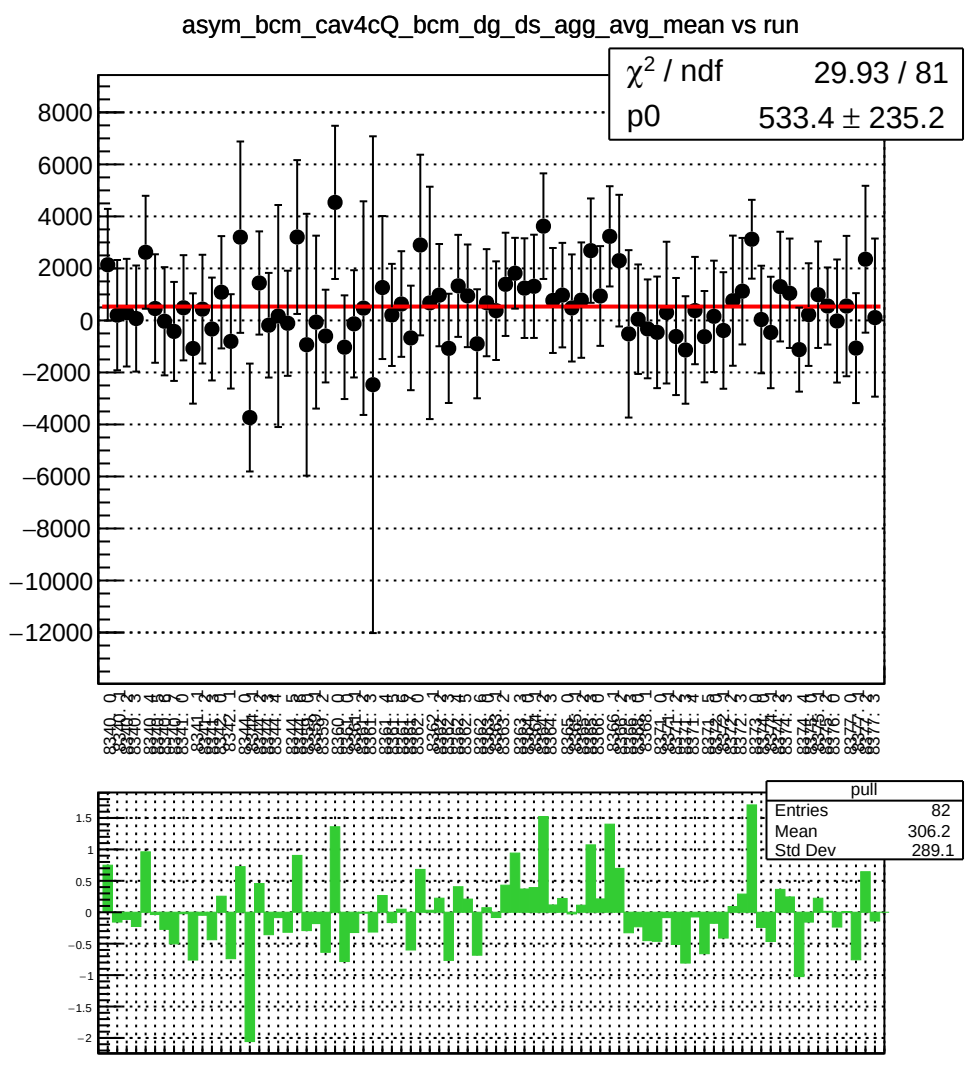

pull1D
Entries 82
Mean 0.003923
Std Dev 0.6212

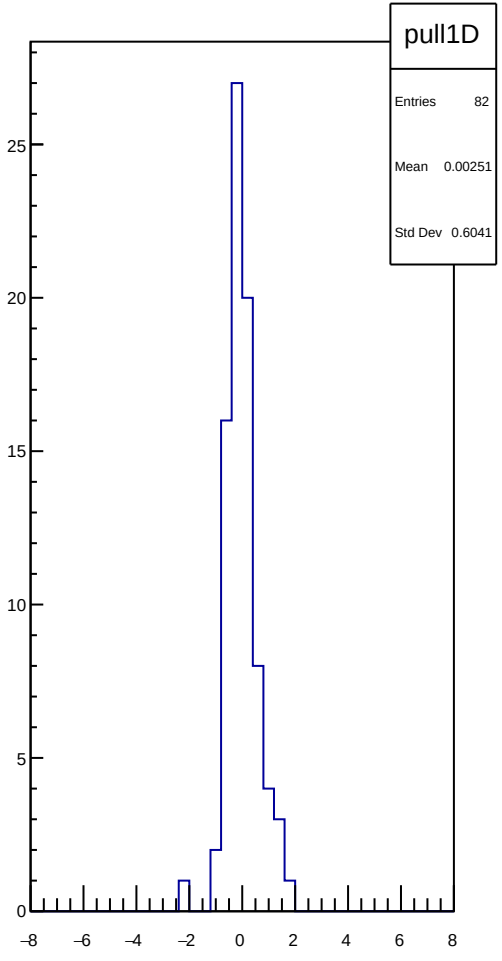

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 6.78e+04 / 81
p0 209.1 ± 0.1671
900
800
700
600
500
400
300
200

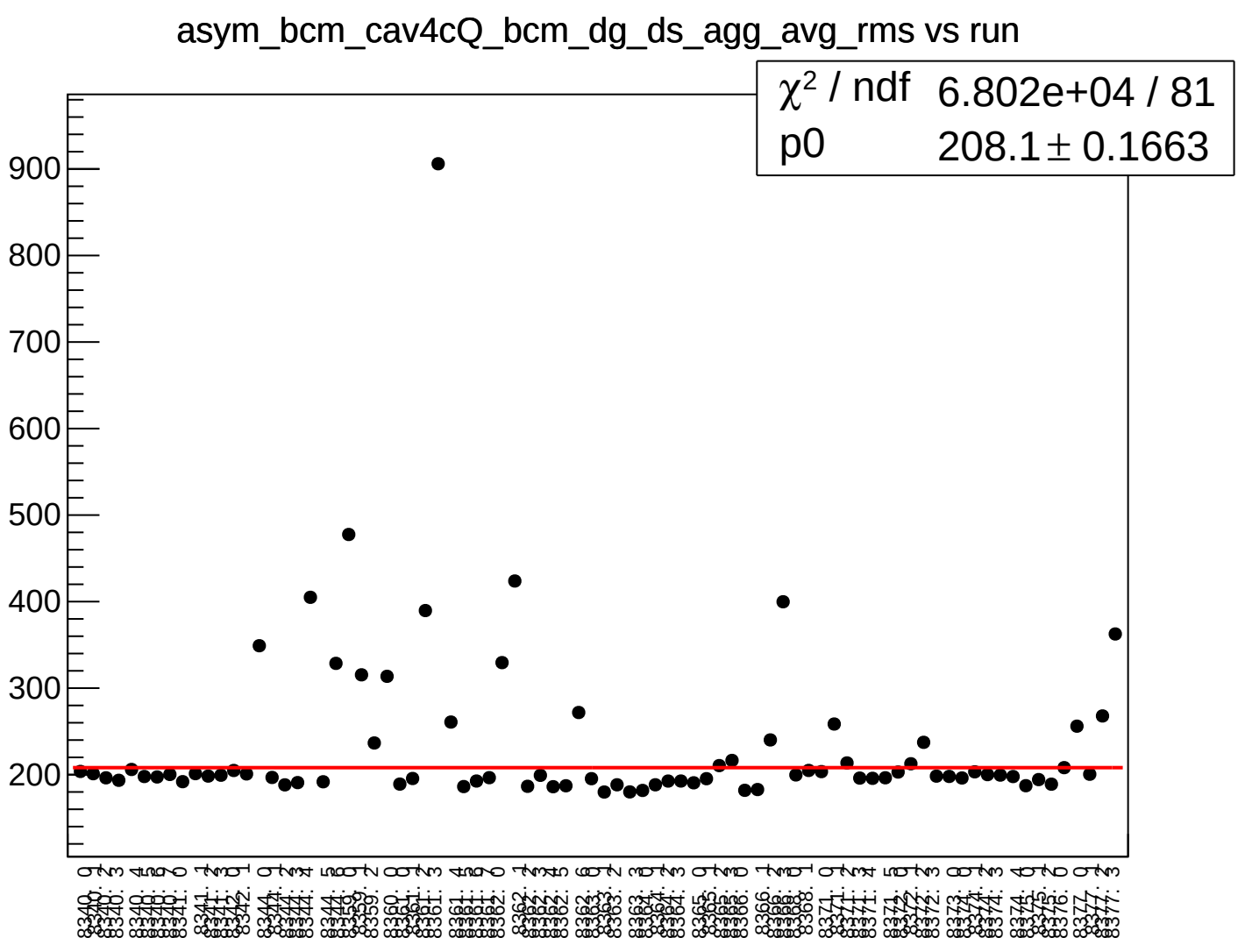

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 115.4 / 81
p0 52.65 ± 35.7
pull
Entries 82
Mean −366.2
Std Dev 398.2

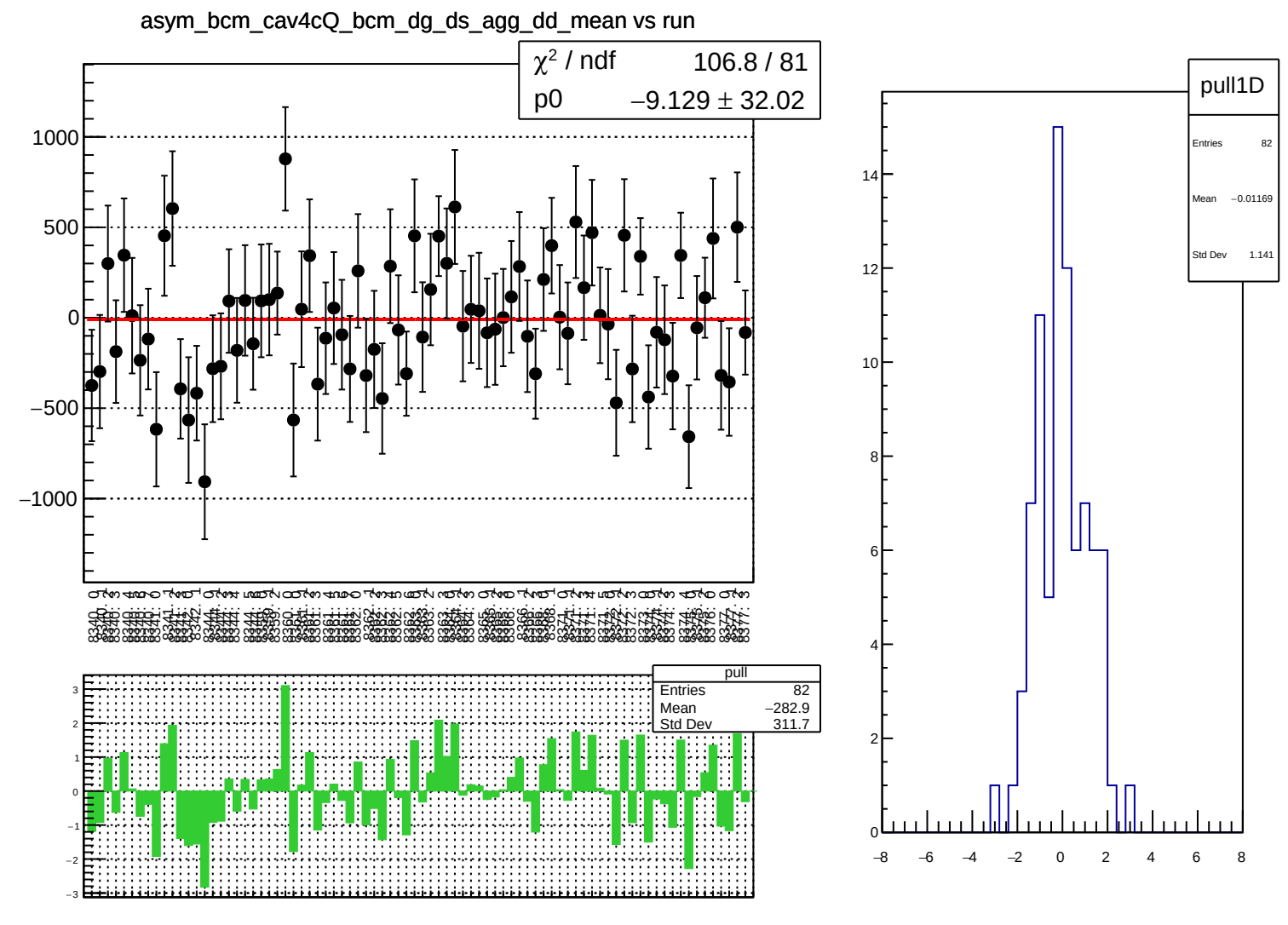

pull1D
Entries 82
Mean −0.01059
Std Dev 1.186

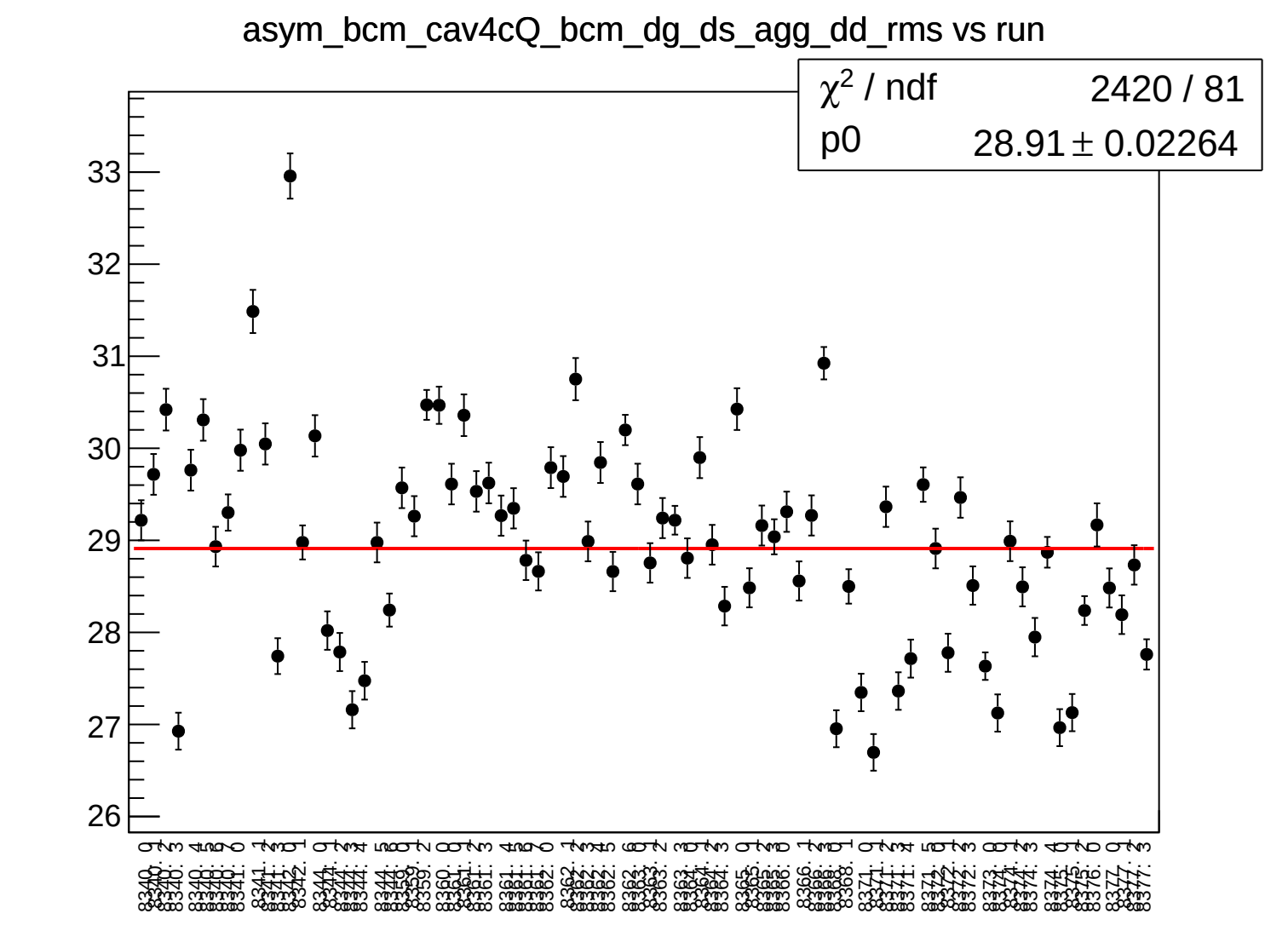

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1396 / 81
p0 32.25 ± 0.02524
36
35
34
33
32
31
30

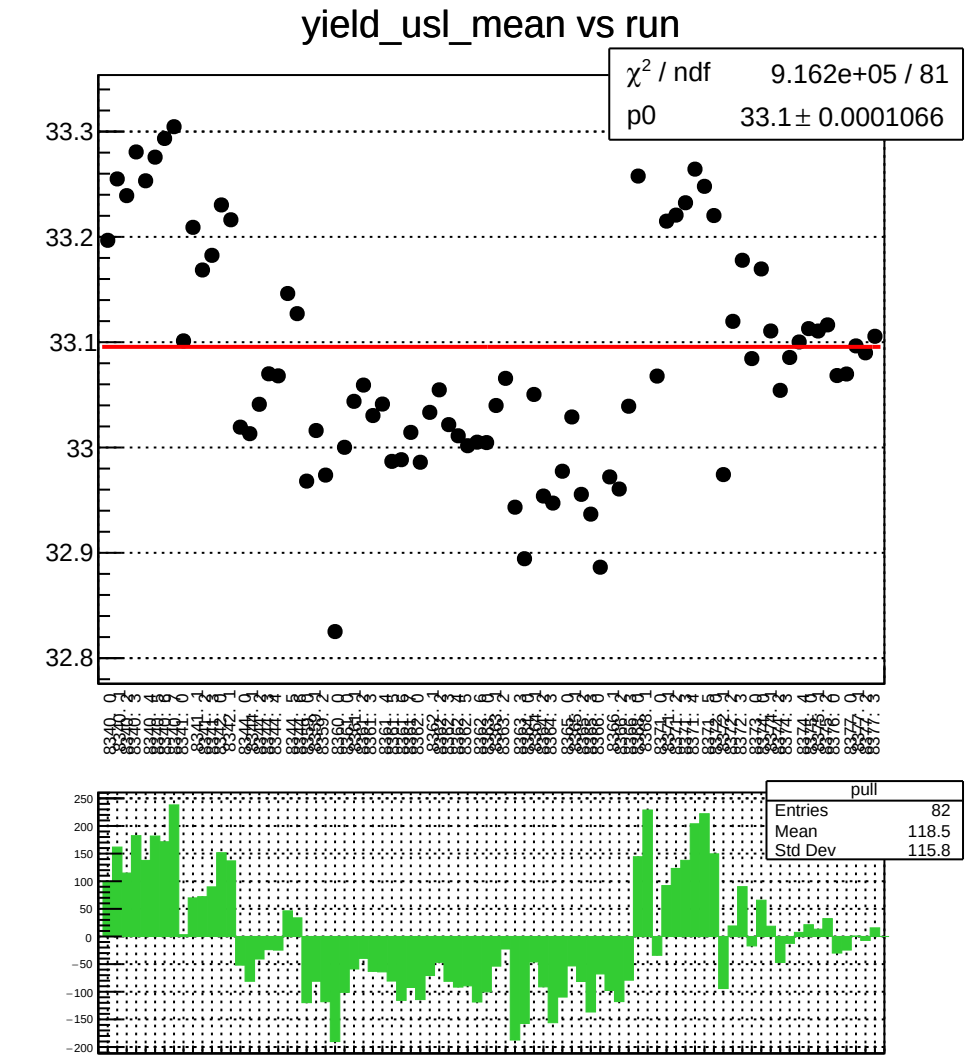

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 29.93 / 81
p0 533.4 ± 235.2
pull
Entries 82
Mean 306.2
Std Dev 289.1

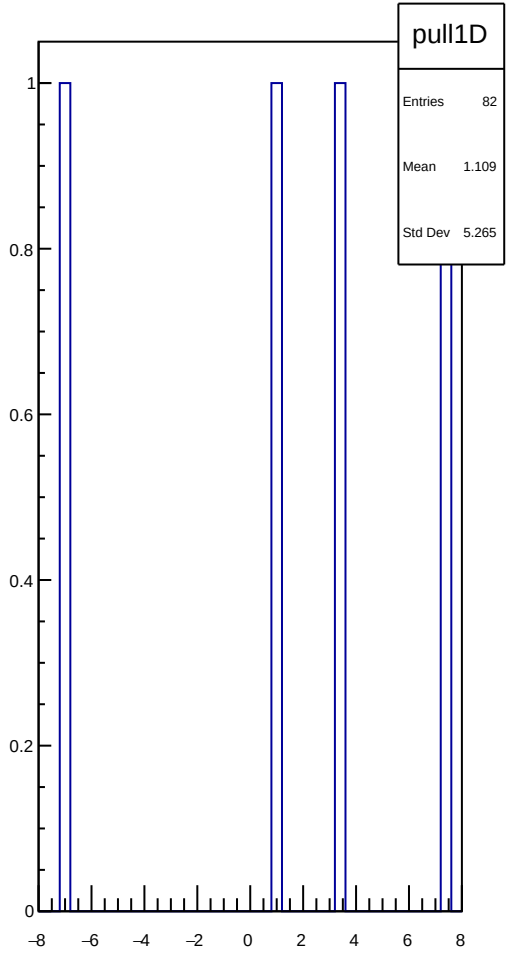

pull1D
Entries 82
Mean 0.00251
Std Dev 0.6041

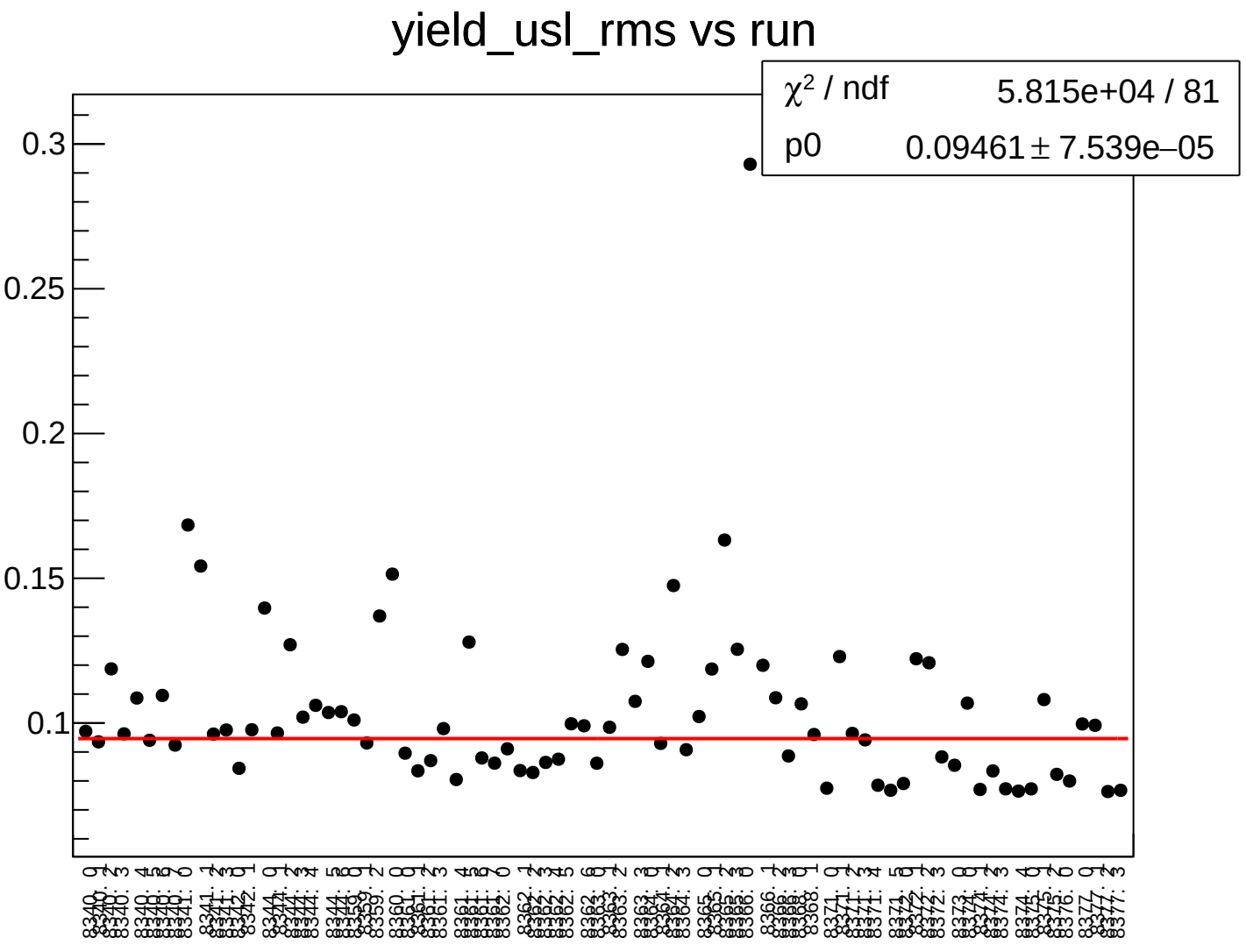

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 6.802e+04 / 81
p0 208.1 ± 0.1663
900
800
700
600
500
400
300
200

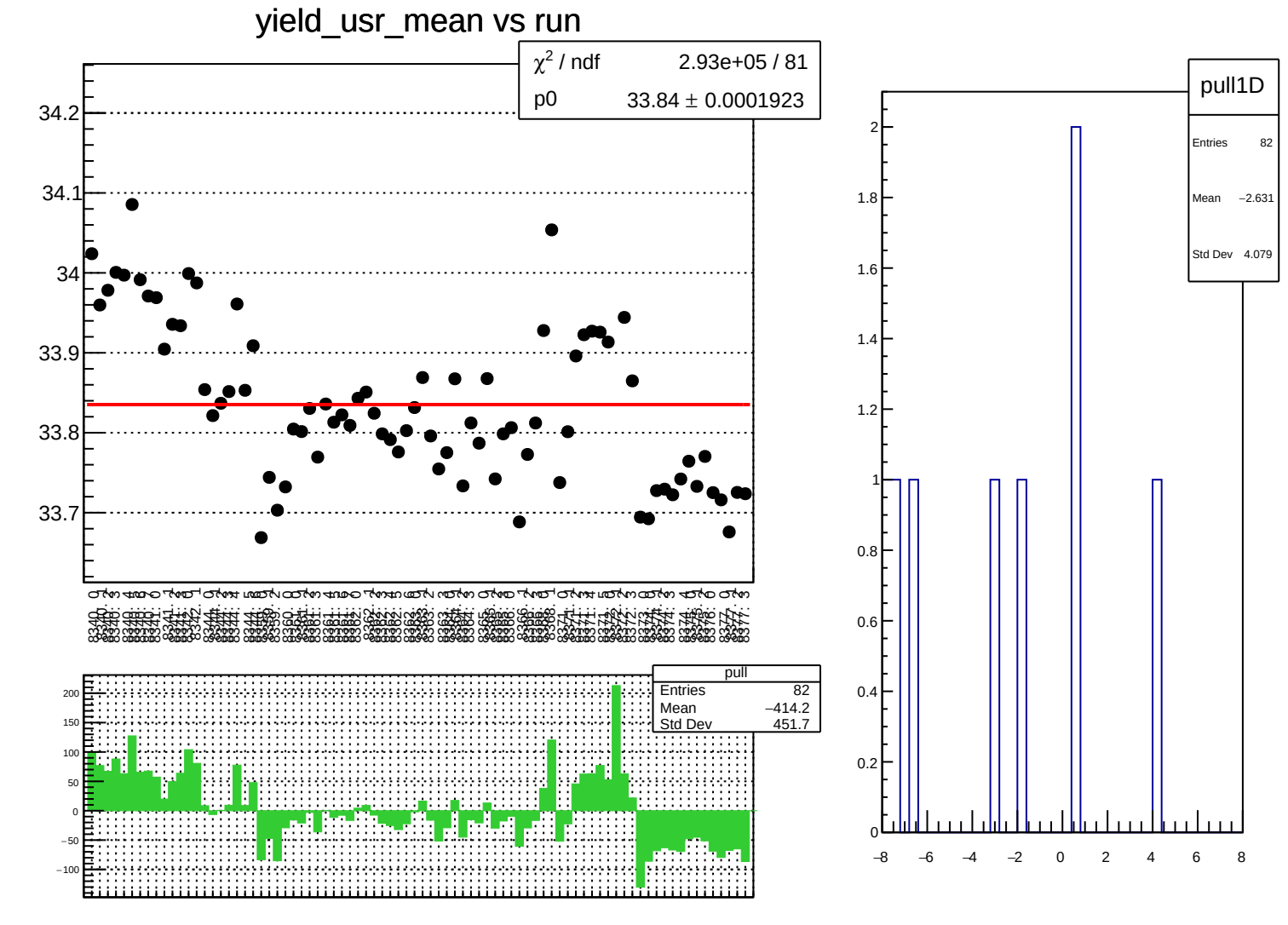

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 106.8 / 81
p0 −9.129 ± 32.02
1000
500
0
−500
−1000
pull
Entries 82
Mean −282.9
Std Dev 311.7
pull1D
Entries 82
Mean −0.01169
Std Dev 1.141

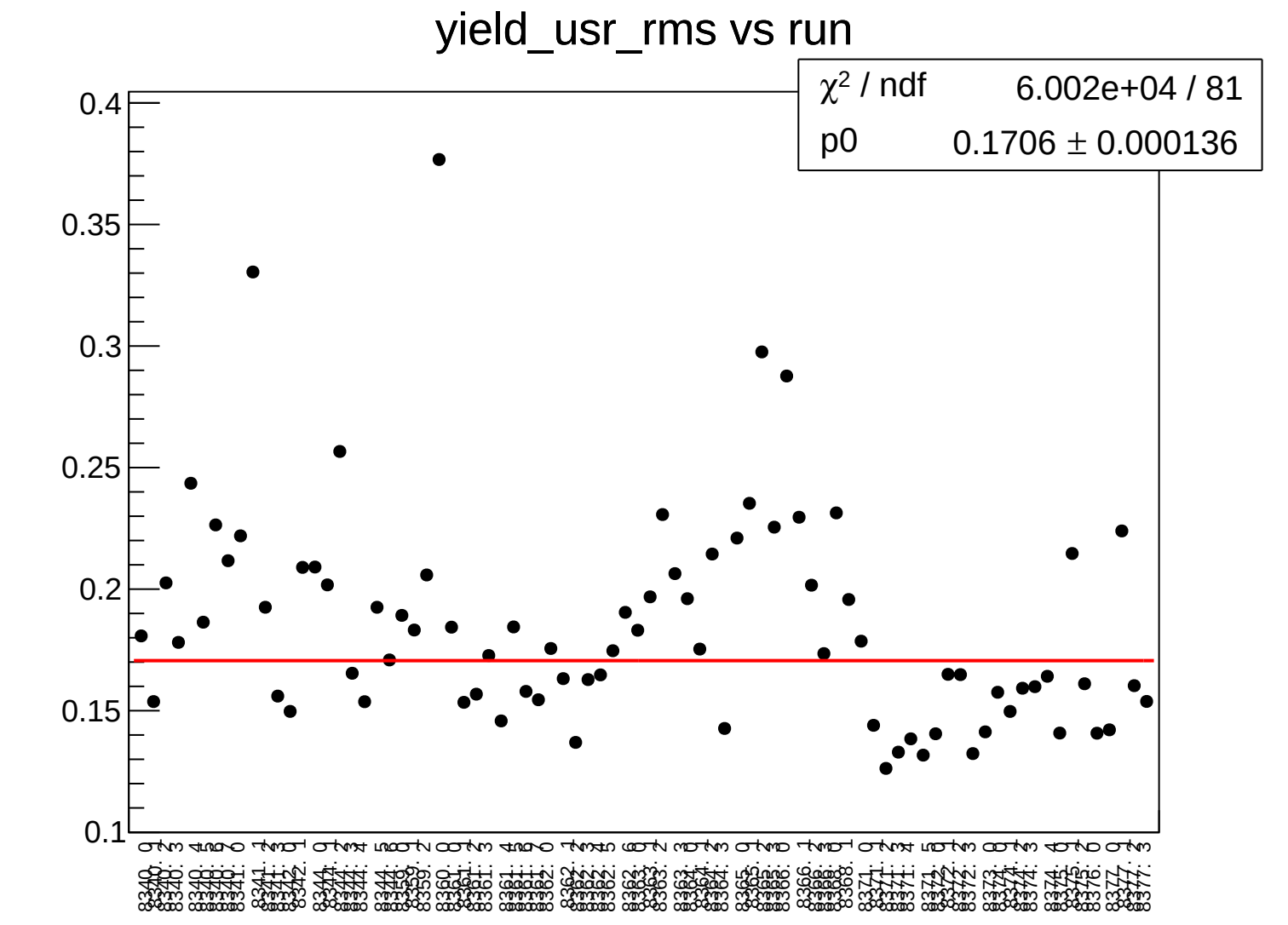

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2420 / 81
p0 28.91 ± 0.02264
33
32
31
30
29
28
27
26

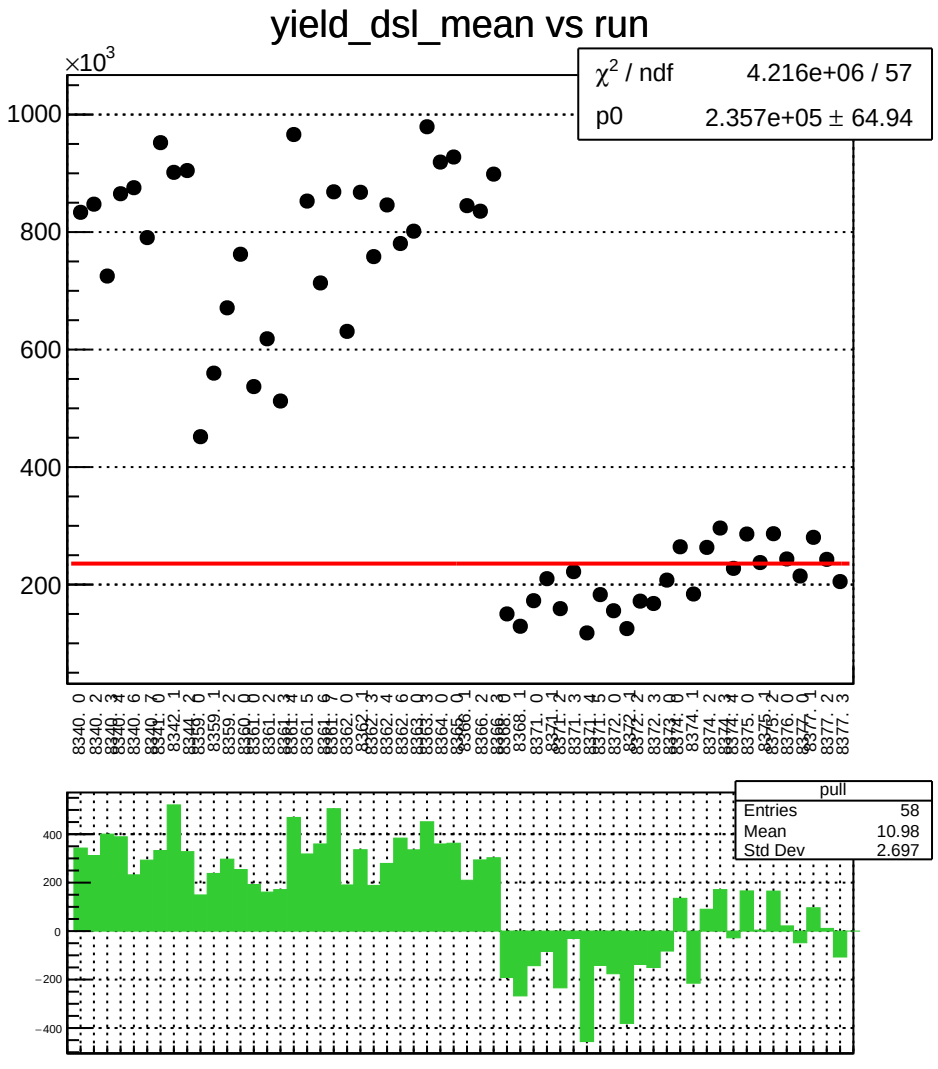

yield_usl_mean vs run
χ² / ndf 9.162e+05 / 81
p0 33.1 ± 0.0001066
33.3
33.2
33.1
33
32.9
32.8
pull
Entries 82
Mean 118.5
Std Dev 115.8
250
200
150
100
50
0
−50
−100
−150
−200

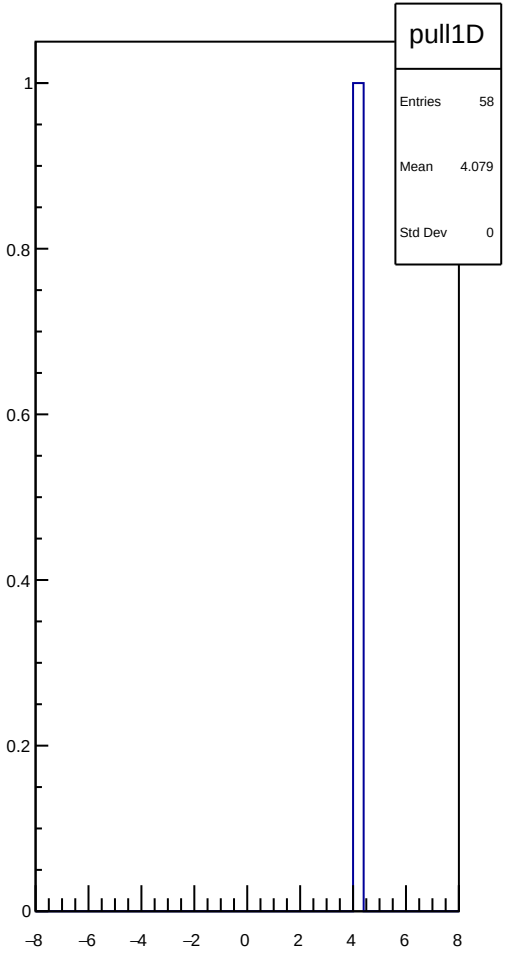

pull1D
Entries 82
Mean 1.109
Std Dev 5.265
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

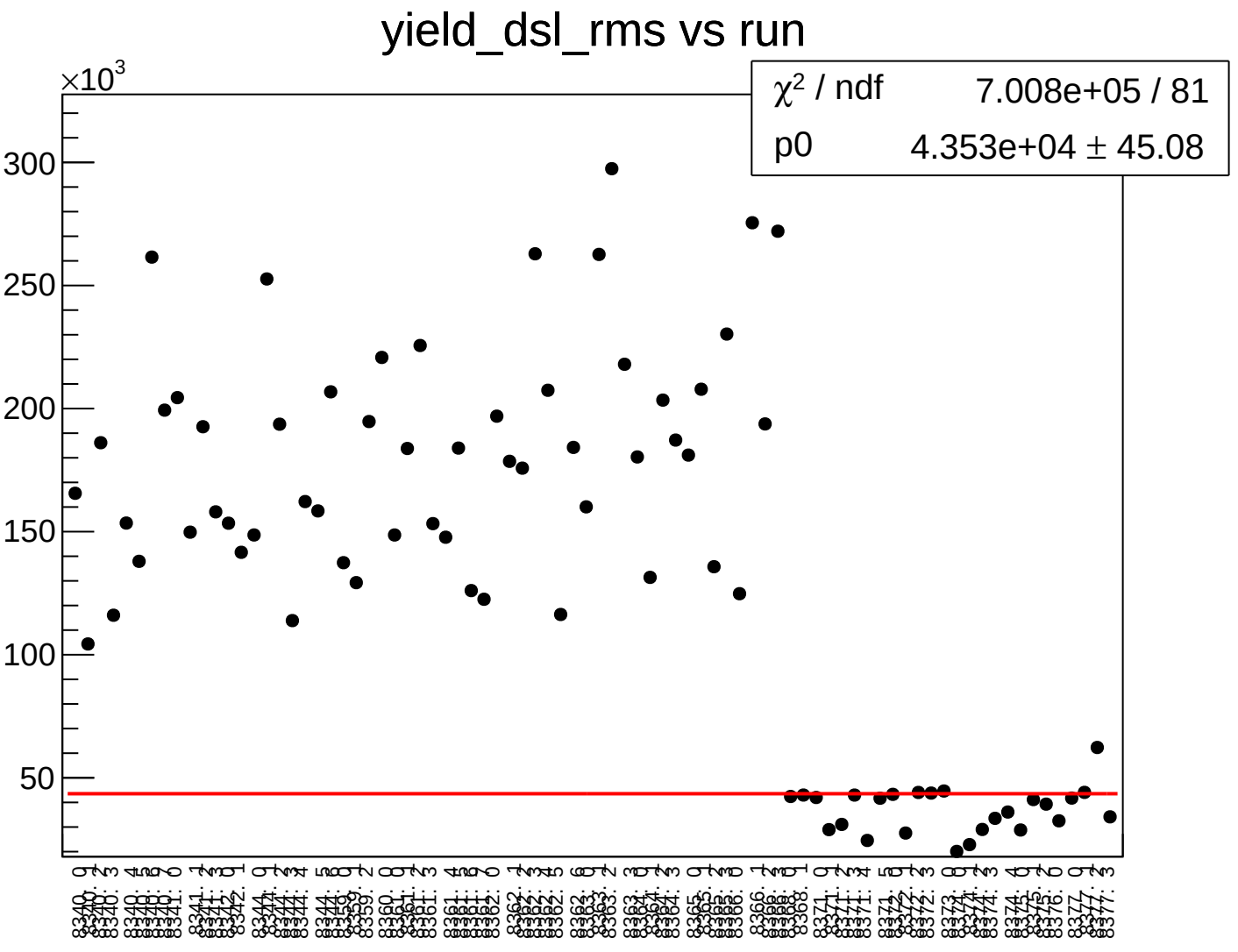

yield_usl_rms vs run
χ² / ndf 5.815e+04 / 81
p0 0.09461 ± 7.539e–05
0.3
0.25
0.2
0.15
0.1

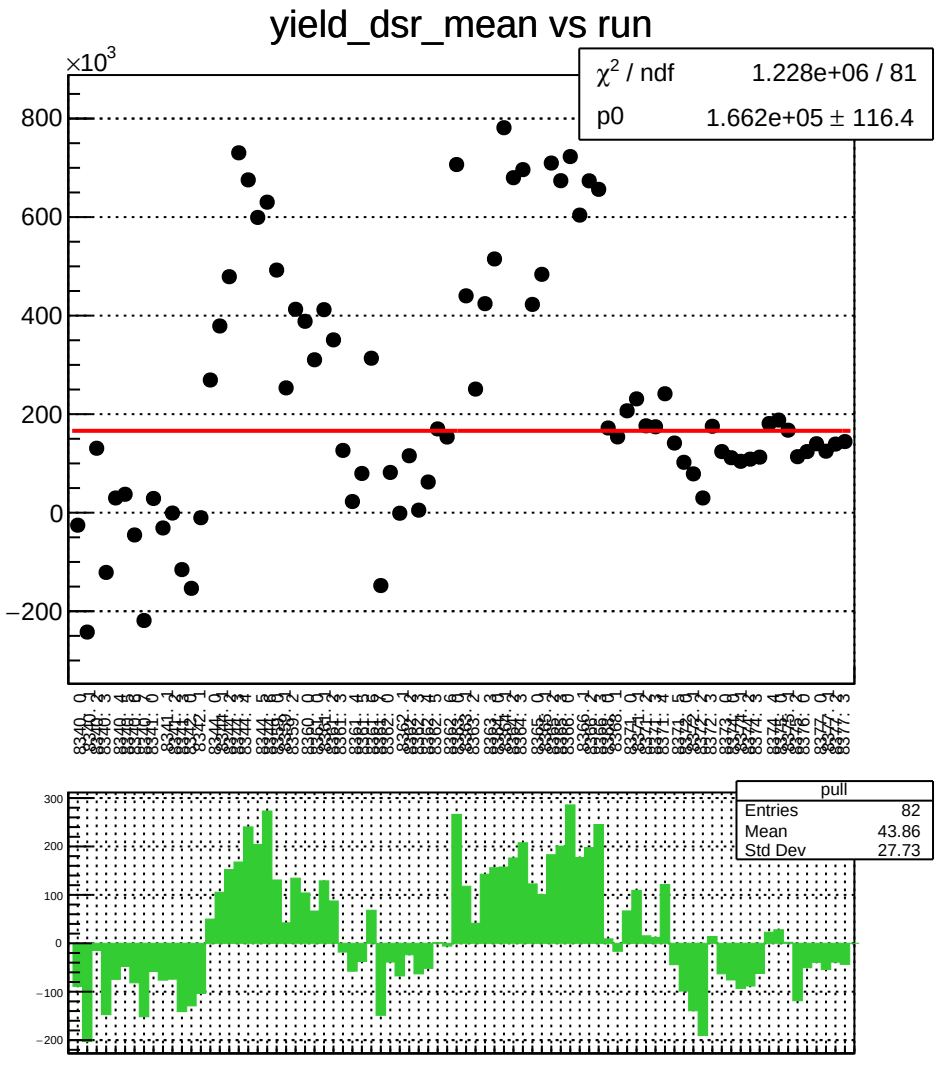

yield_usr_mean vs run
χ² / ndf 2.93e+05 / 81
p0 33.84 ± 0.0001923
34.2
34.1
34
33.9
33.8
33.7
pull
Entries 82
Mean −414.2
Std Dev 451.7
200
150
100
50
0
−50
−100
pull1D
Entries 82
Mean −2.631
Std Dev 4.079
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

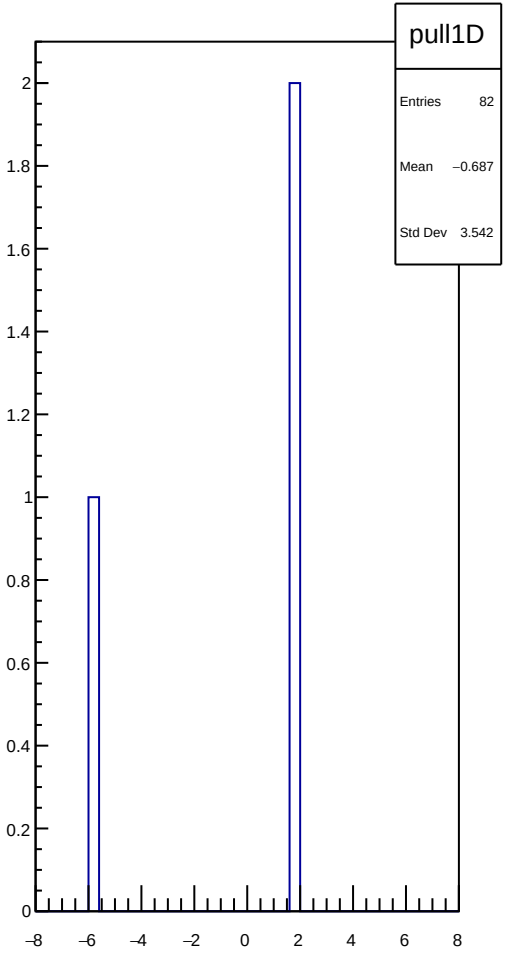

yield_usr_rms vs run
χ² / ndf 6.002e+04 / 81
p0 0.1706 ± 0.000136
0.4
0.35
0.3
0.25
0.2
0.15
0.1

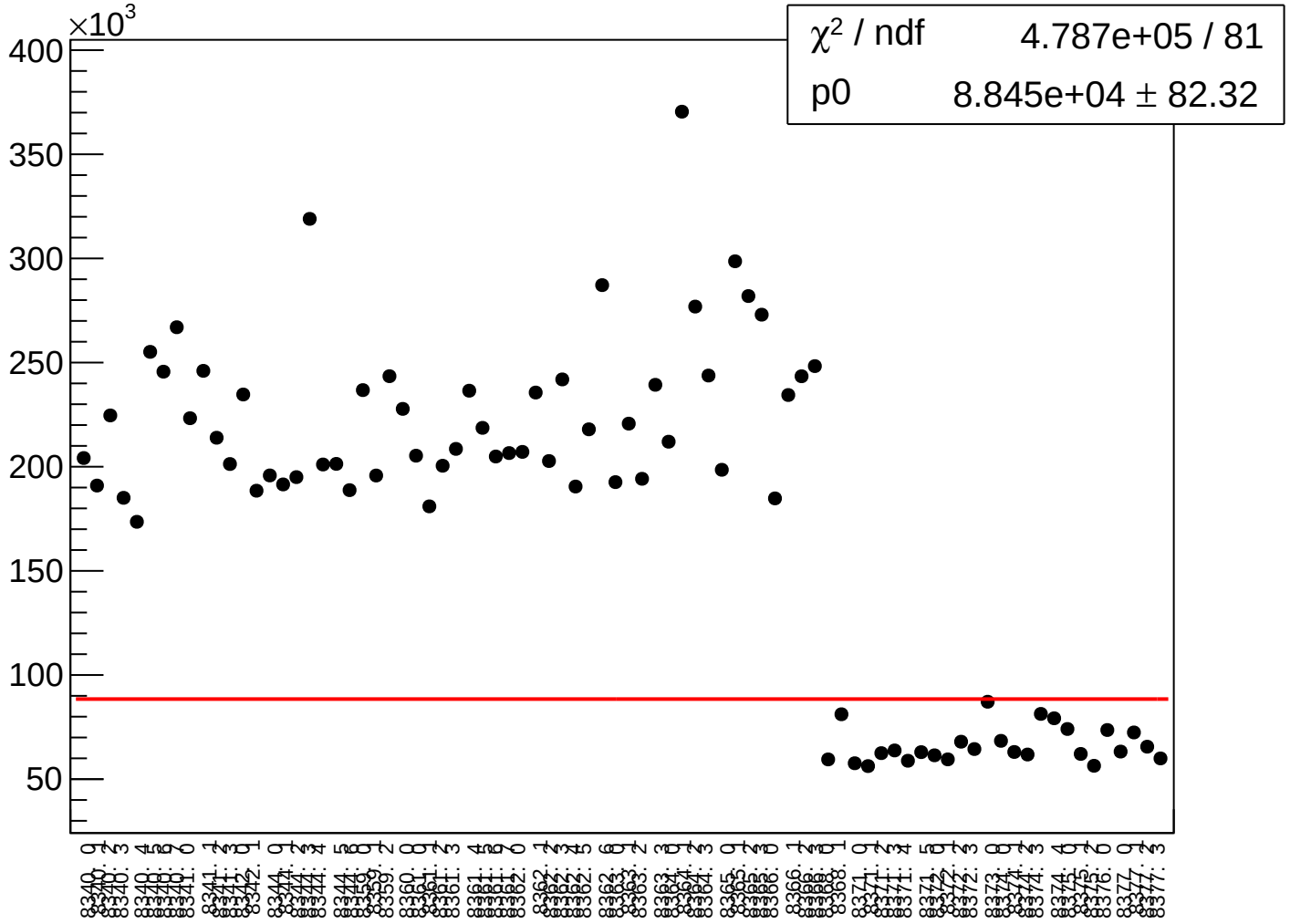

yield_dsl_mean vs run
×10^3
χ² / ndf 4.216e+06 / 57
p0 2.357e+05 ± 64.94
1000
800
600
400
200
pull
Entries 58
Mean 10.98
Std Dev 2.697
400
200
0
−200
−400

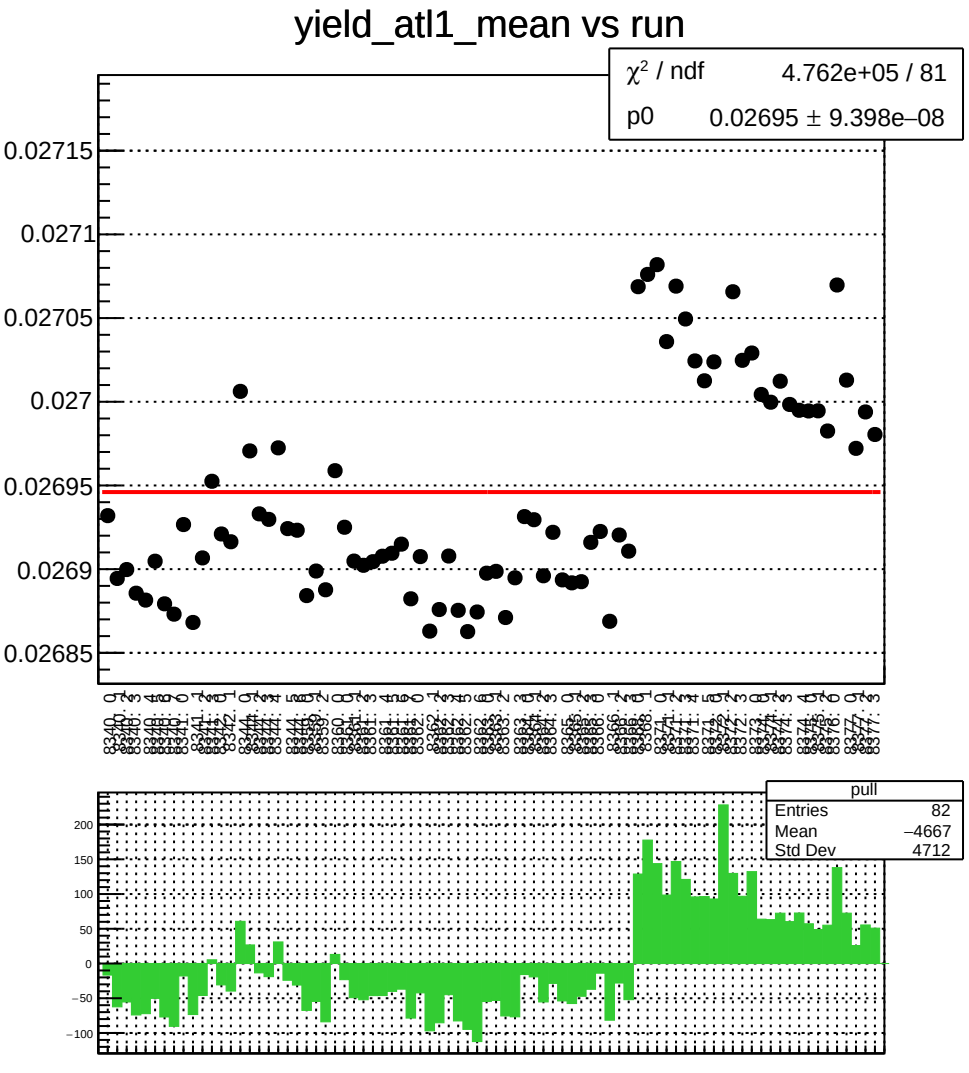

pull1D
Entries 58
Mean 4.079
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

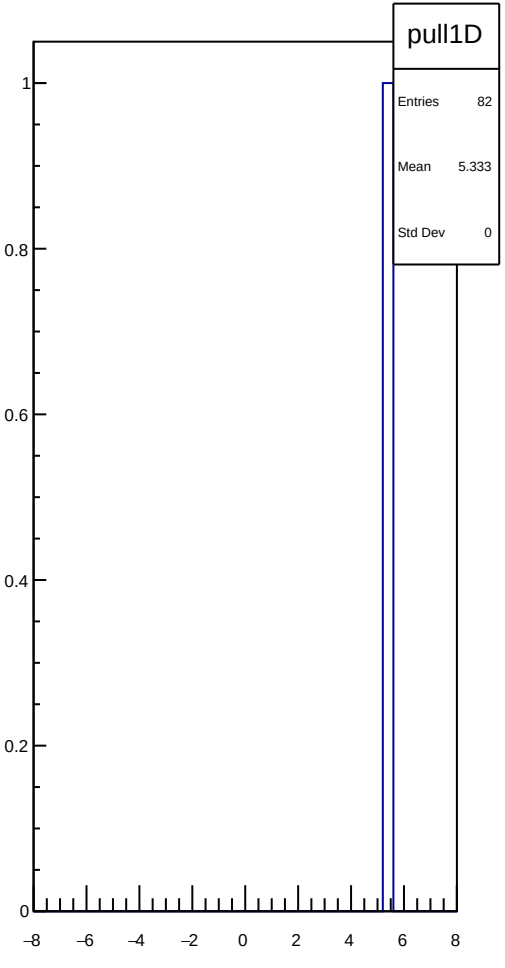

yield_dsl_rms vs run
×10^3
χ² / ndf 7.008e+05 / 81
p0 4.353e+04 ± 45.08
300
250
200
150
100
50

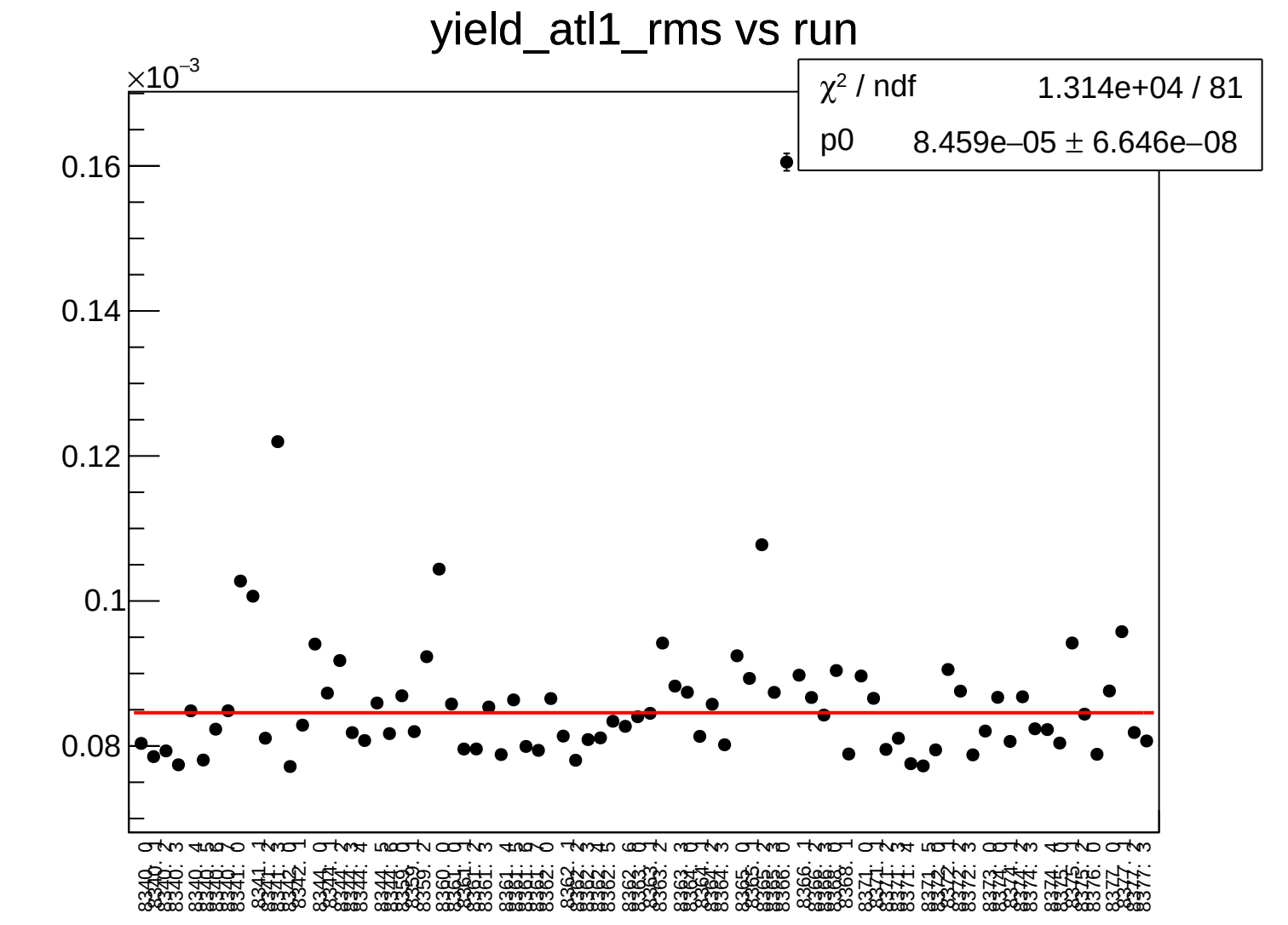

yield_dsr_mean vs run
×10^3
χ² / ndf 1.228e+06 / 81
p0 1.662e+05 ± 116.4
800
600
400
200
0
−200
pull
Entries 82
Mean 43.86
Std Dev 27.73
300
200
100
0
−100
−200

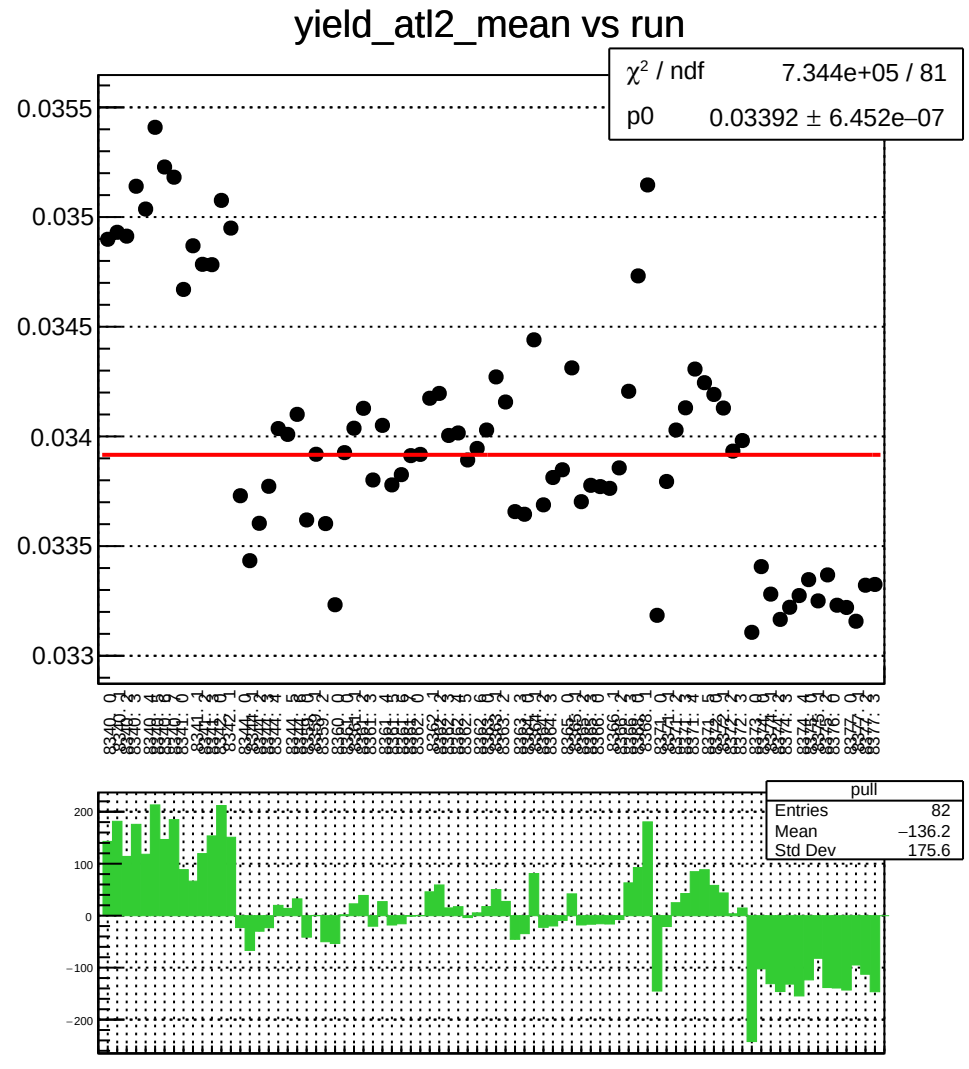

pull1D
Entries 82
Mean −0.687
Std Dev 3.542
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

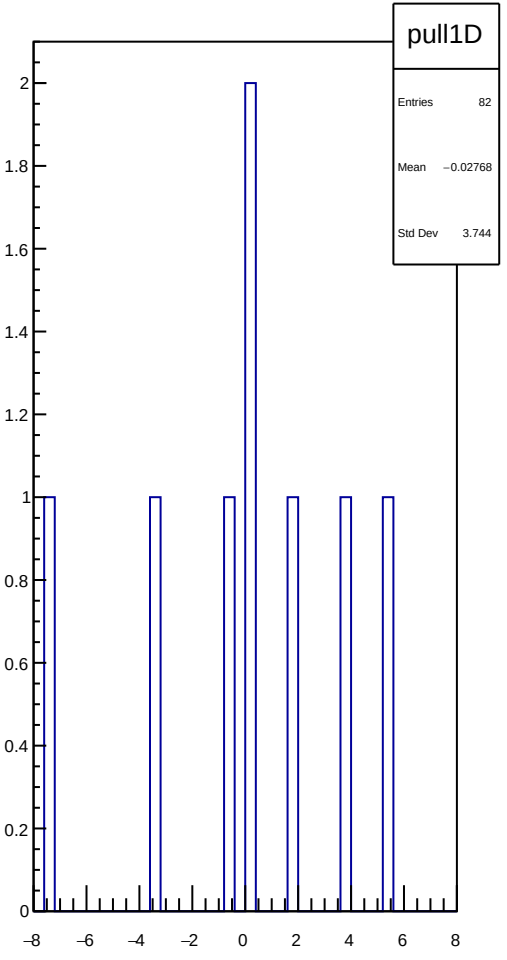

yield_dsr_rms vs run
×10^3
400
350
300
250
200
150
100
50
χ² / ndf 4.787e+05 / 81
p0 8.845e+04 ± 82.32

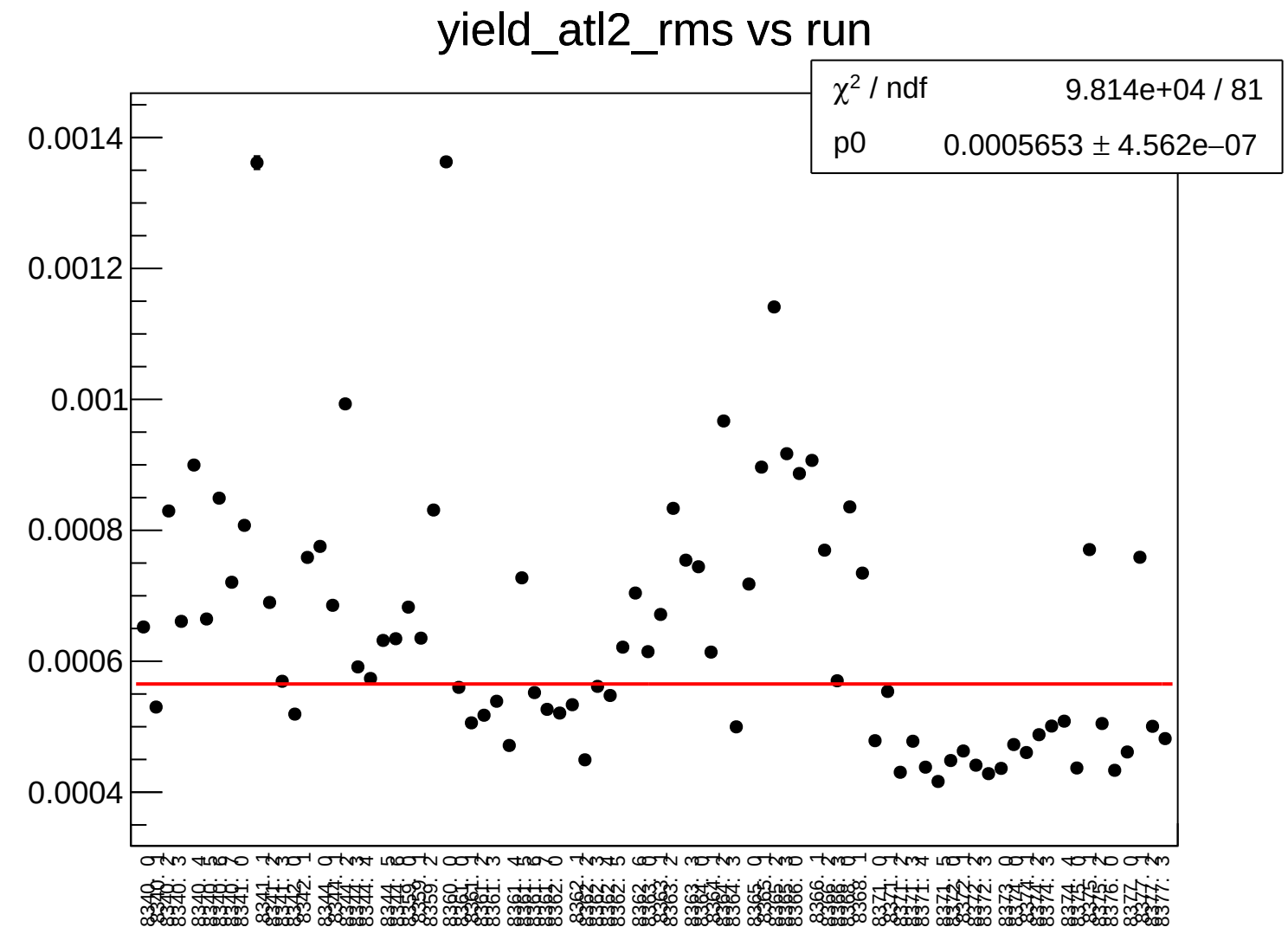

yield_atl1_mean vs run
χ² / ndf 4.762e+05 / 81
p0 0.02695 ± 9.398e−08
0.02715
0.0271
0.02705
0.027
0.02695
0.0269
0.02685
pull
Entries 82
Mean −4667
Std Dev 4712
200
150
100
50
0
−50
−100

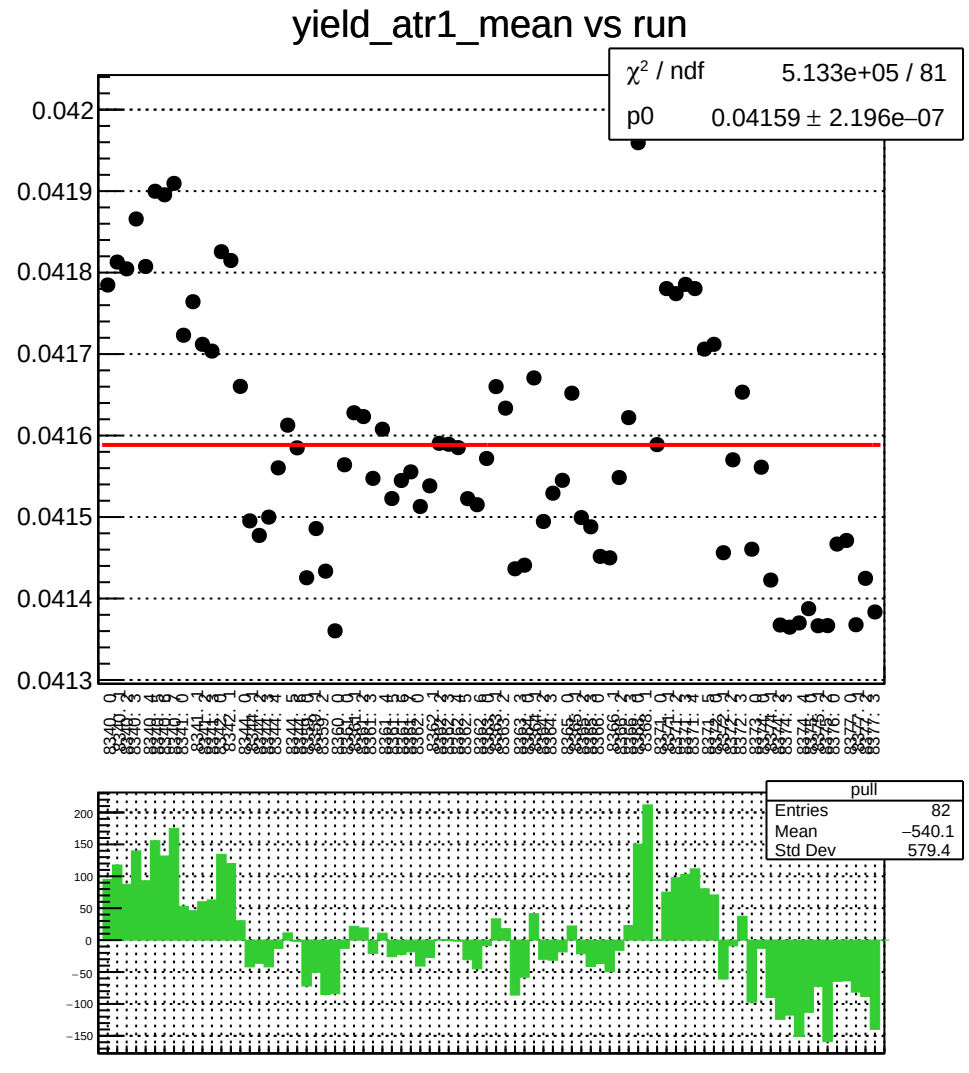

pull1D
Entries 82
Mean 5.333
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

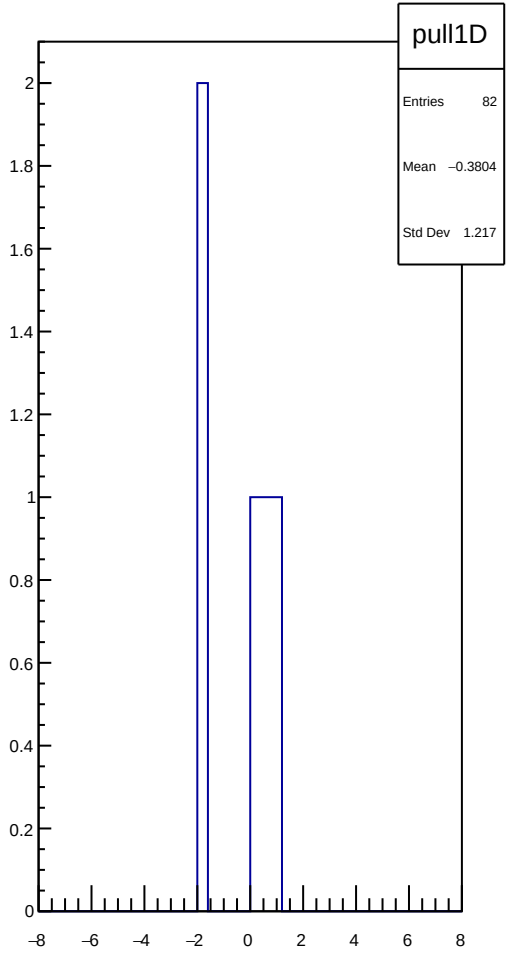

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.314e+04 / 81
p0 8.459e−05 ± 6.646e−08
0.16
0.14
0.12
0.1
0.08

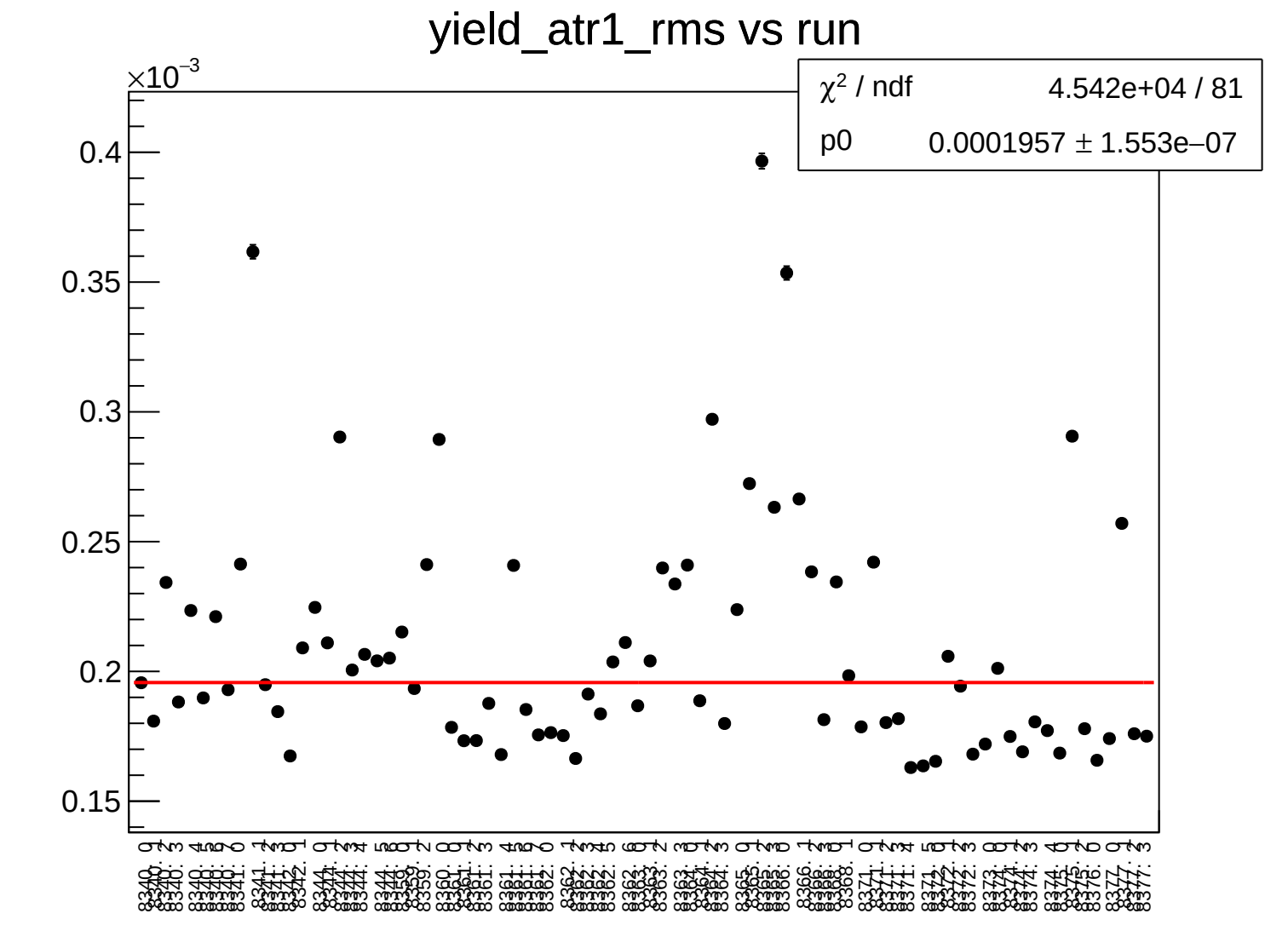

yield_atl2_mean vs run
χ² / ndf 7.344e+05 / 81
p0 0.03392 ± 6.452e−07
0.0355
0.035
0.0345
0.034
0.0335
0.033
pull
Entries 82
Mean −136.2
Std Dev 175.6
200
100
0
−100
−200

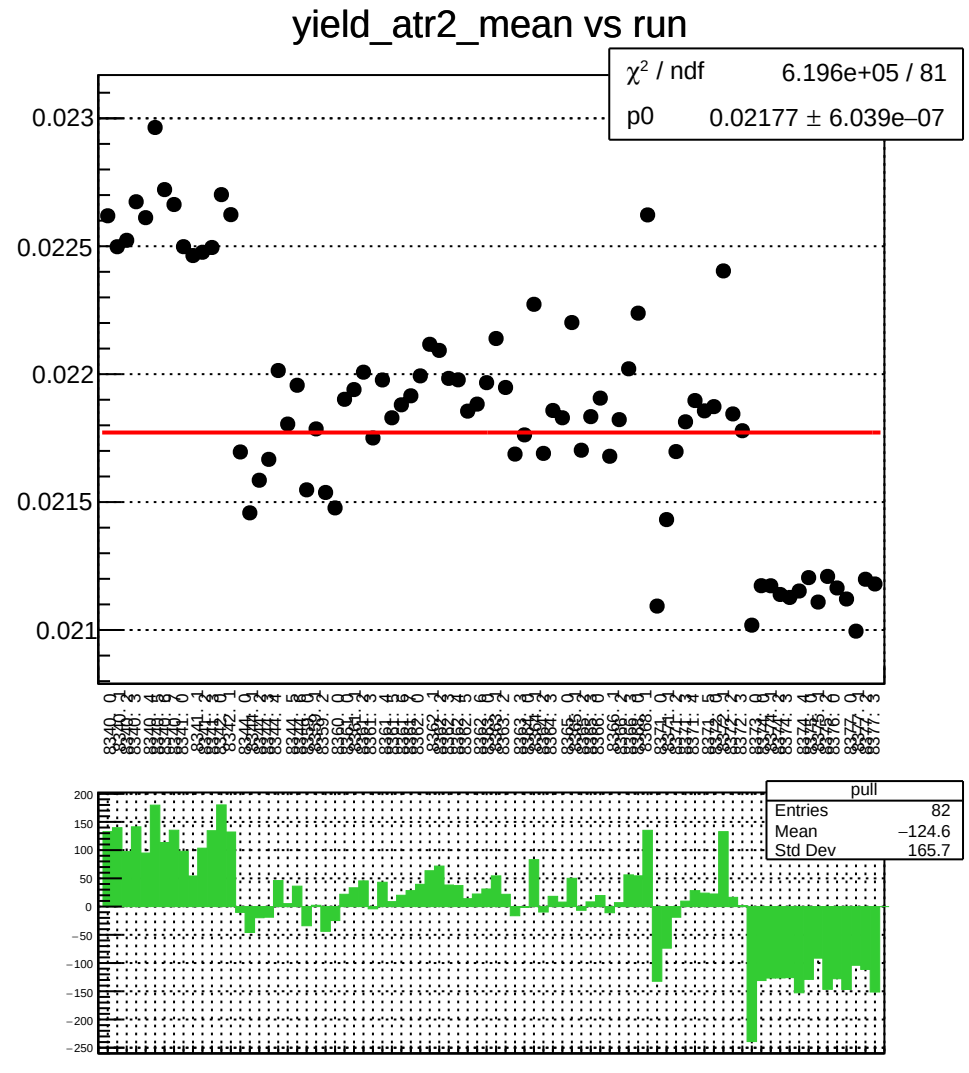

pull1D
Entries 82
Mean −0.02768
Std Dev 3.744
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

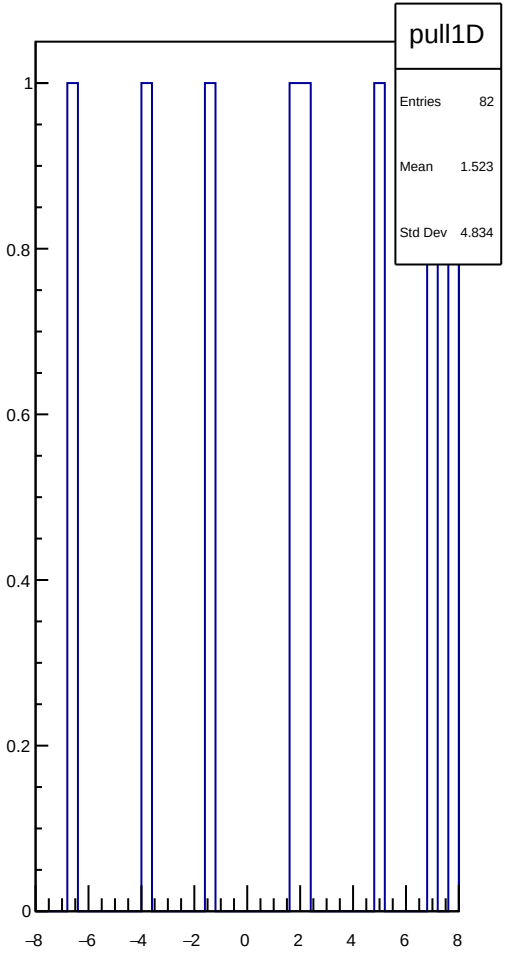

yield_atl2_rms vs run
χ² / ndf 9.814e+04 / 81
p0 0.0005653 ± 4.562e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

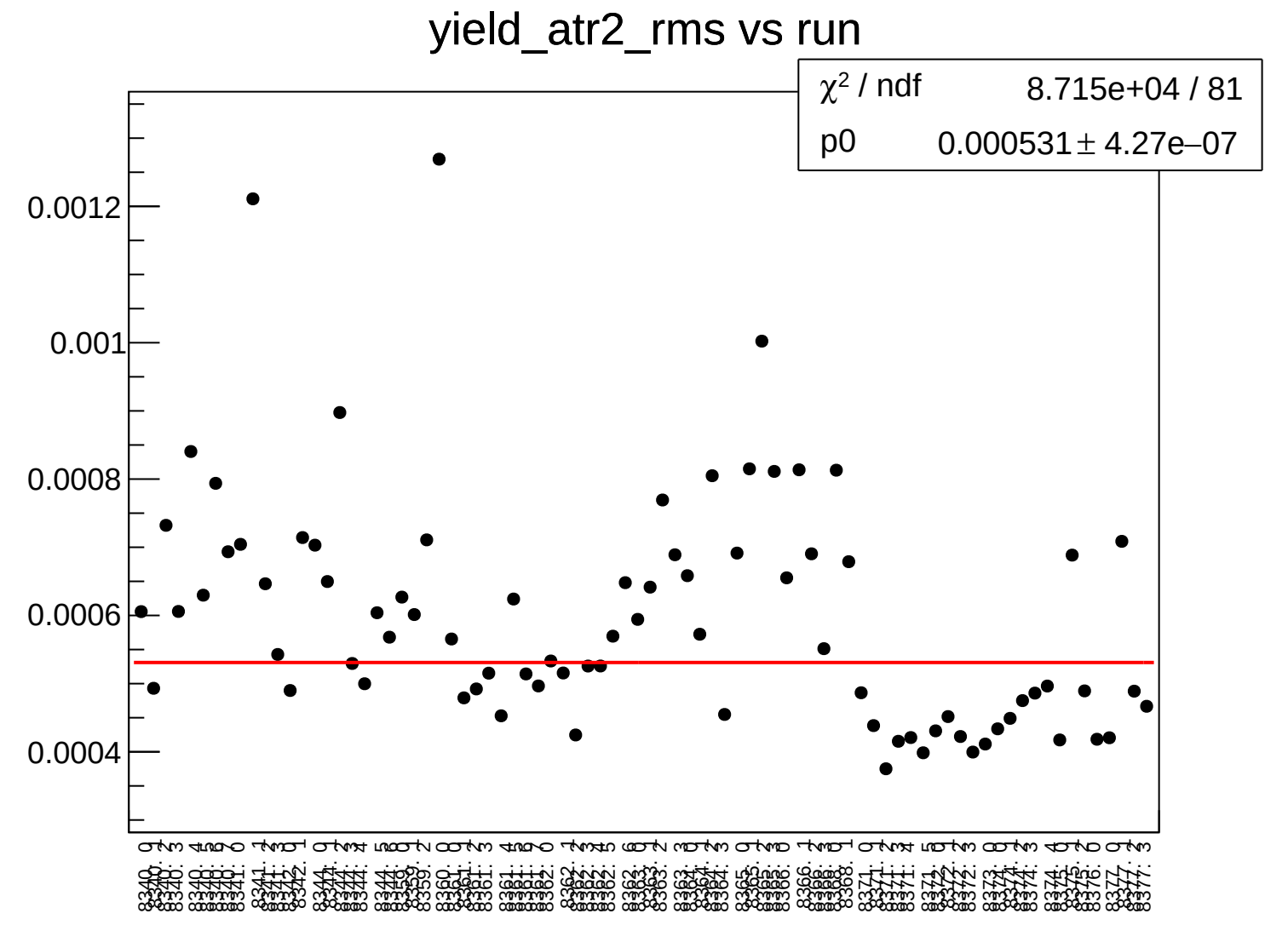

yield_atr1_mean vs run
χ² / ndf 5.133e+05 / 81
p0 0.04159 ± 2.196e−07
0.042
0.0419
0.0418
0.0417
0.0416
0.0415
0.0414
0.0413
pull
Entries 82
Mean −540.1
Std Dev 579.4
200
150
100
50
0
−50
−100
−150

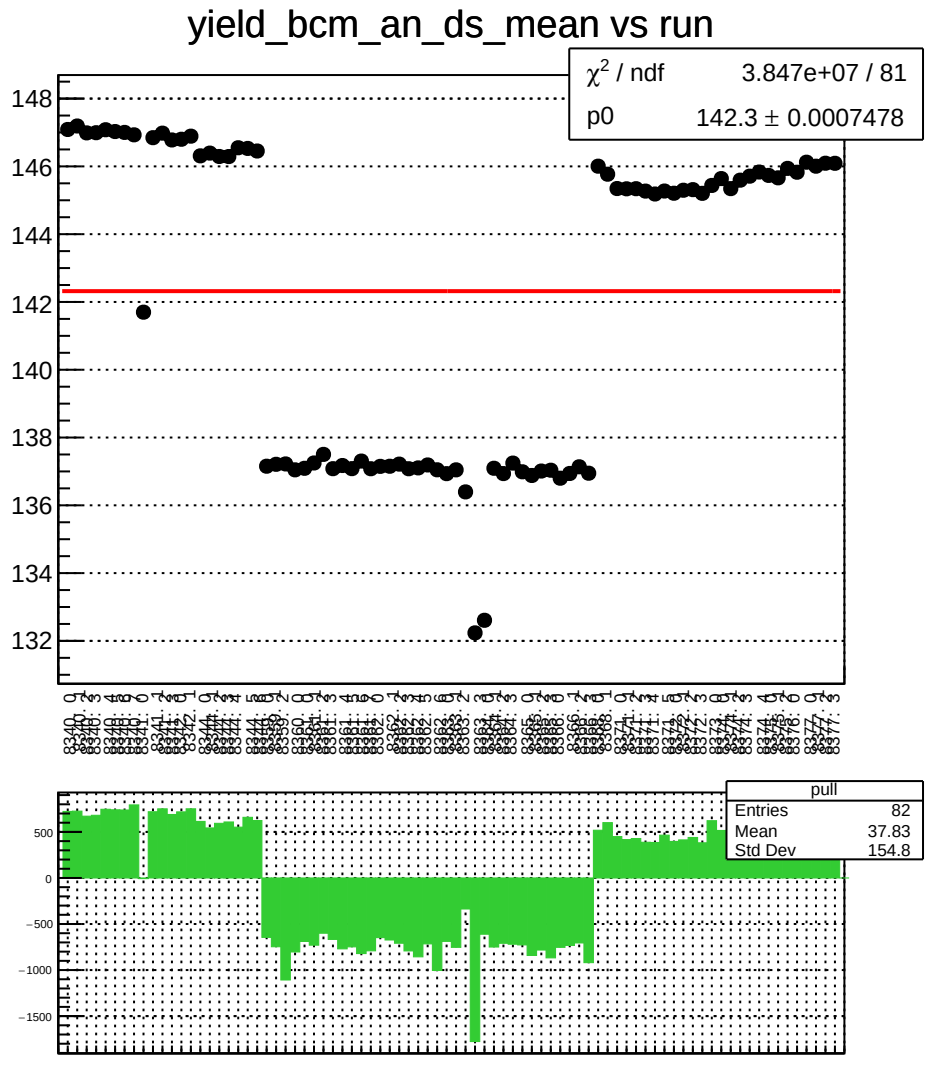

pull1D
Entries 82
Mean −0.3804
Std Dev 1.217
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

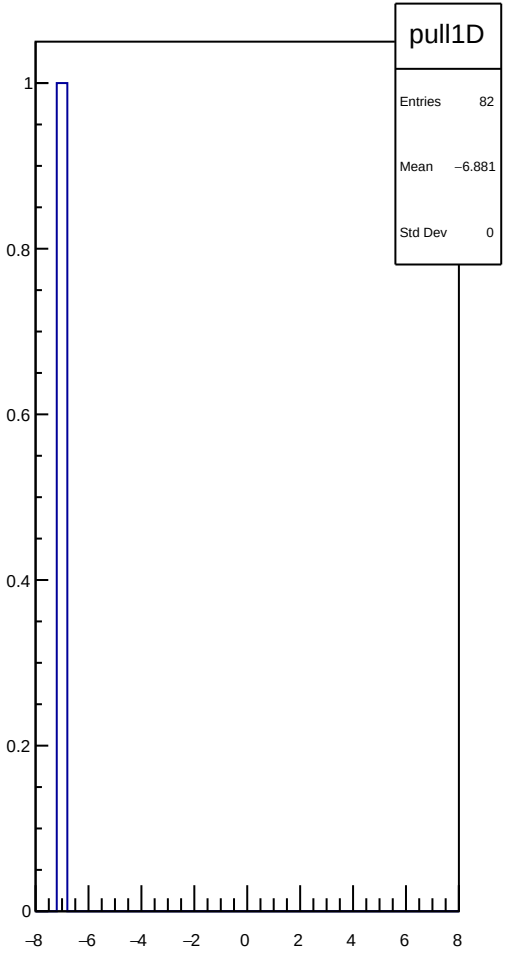

yield_atr1_rms vs run
×10⁻³
χ² / ndf 4.542e+04 / 81
p0 0.0001957 ± 1.553e−07
0.4
0.35
0.3
0.25
0.2
0.15

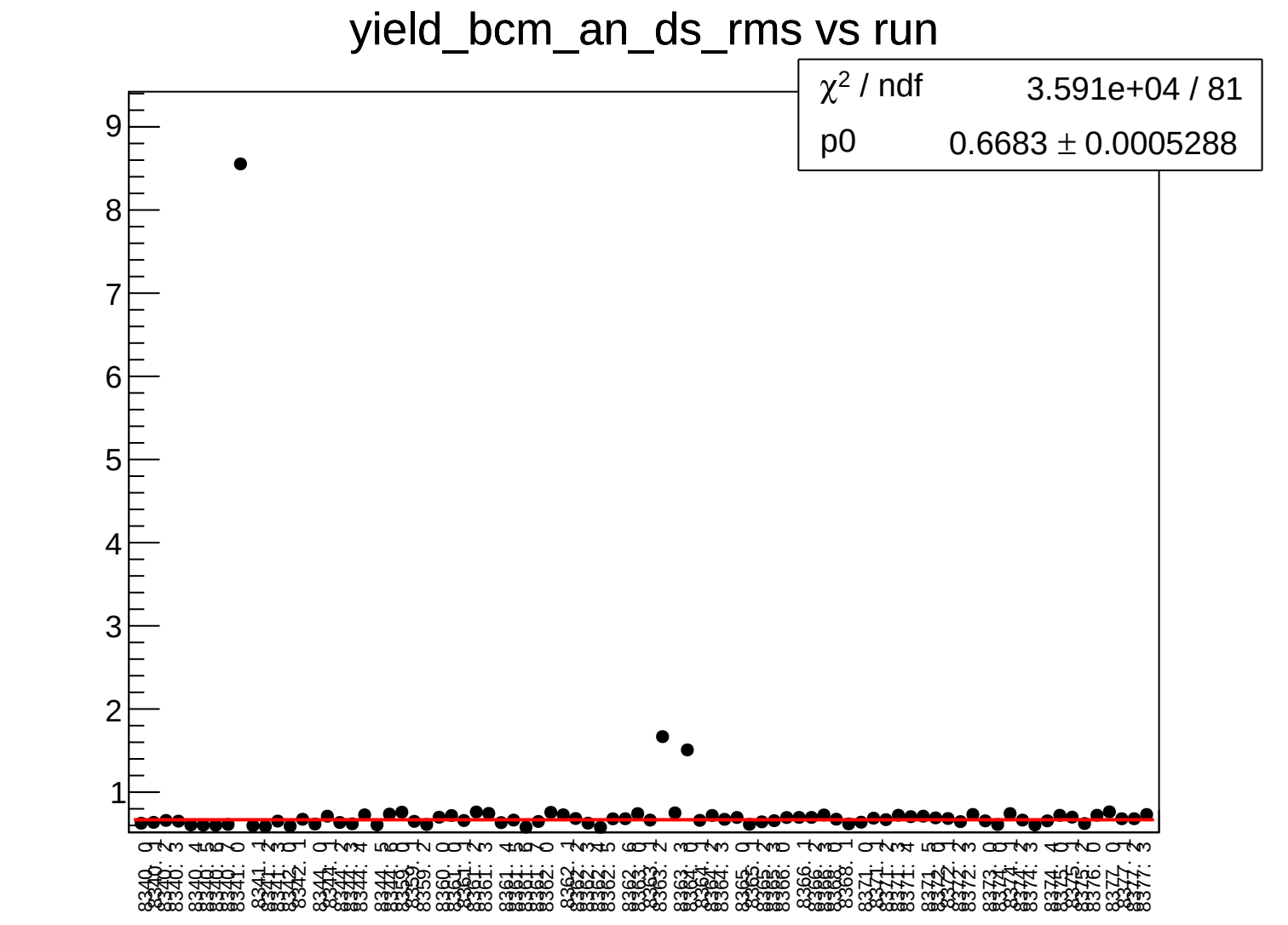

yield_atr2_mean vs run
χ² / ndf 6.196e+05 / 81
p0 0.02177 ± 6.039e−07
0.023
0.0225
0.022
0.0215
0.021
pull
Entries 82
Mean −124.6
Std Dev 165.7
200
150
100
50
0
−50
−100
−150
−200
−250

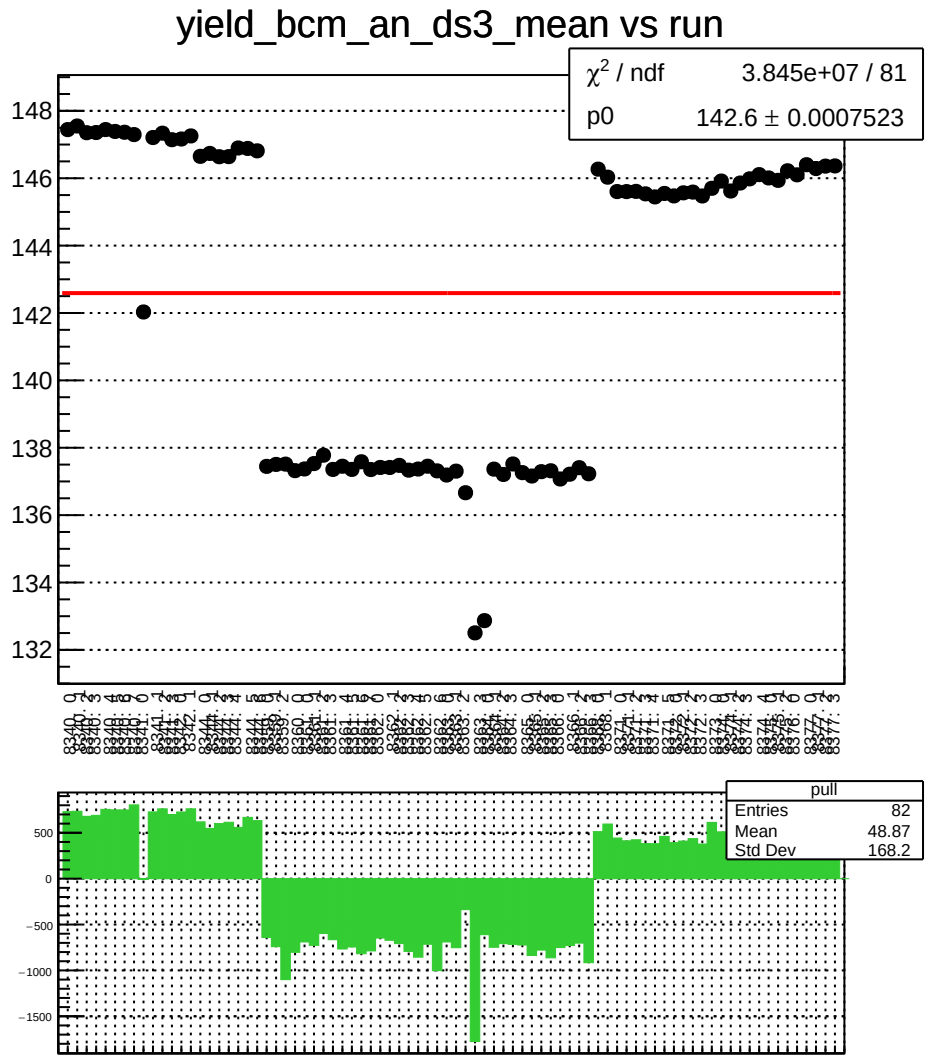

pull1D
Entries 82
Mean 1.523
Std Dev 4.834
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

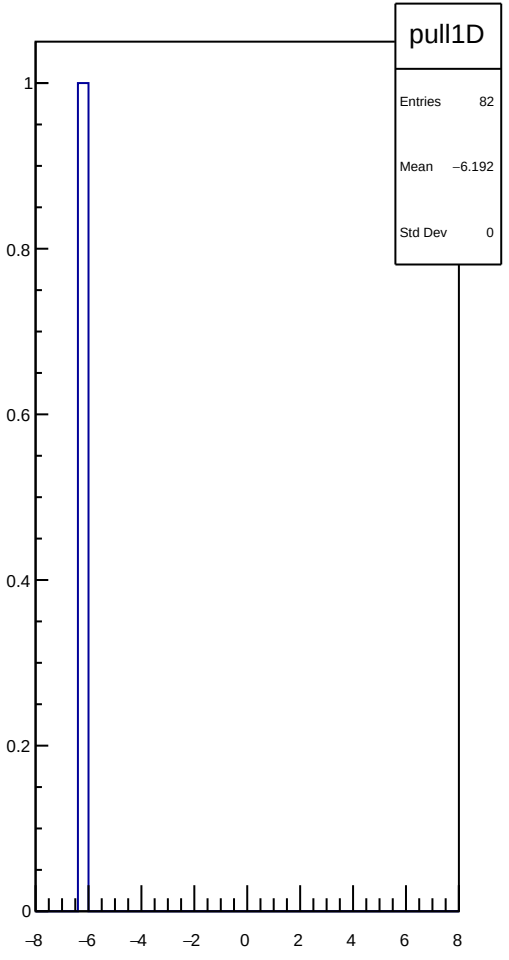

yield_atr2_rms vs run
χ² / ndf 8.715e+04 / 81
p0 0.000531 ± 4.27e–07
0.0012
0.001
0.0008
0.0006
0.0004

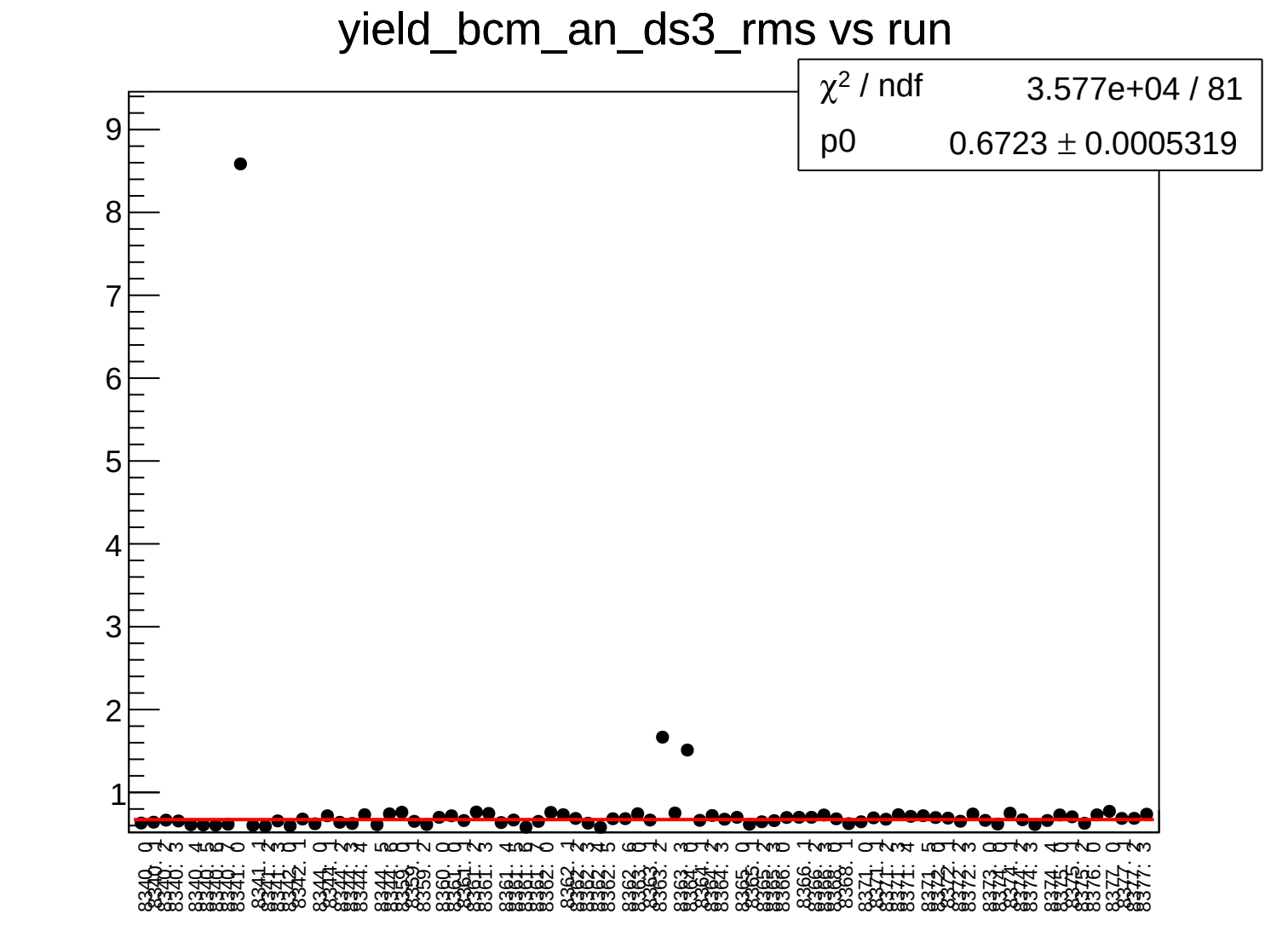

yield_bcm_an_ds_mean vs run
χ² / ndf 3.847e+07 / 81
p0 142.3 ± 0.0007478
148
146
144
142
140
138
136
134
132
pull
Entries 82
Mean 37.83
Std Dev 154.8
500
0
−500
−1000
−1500

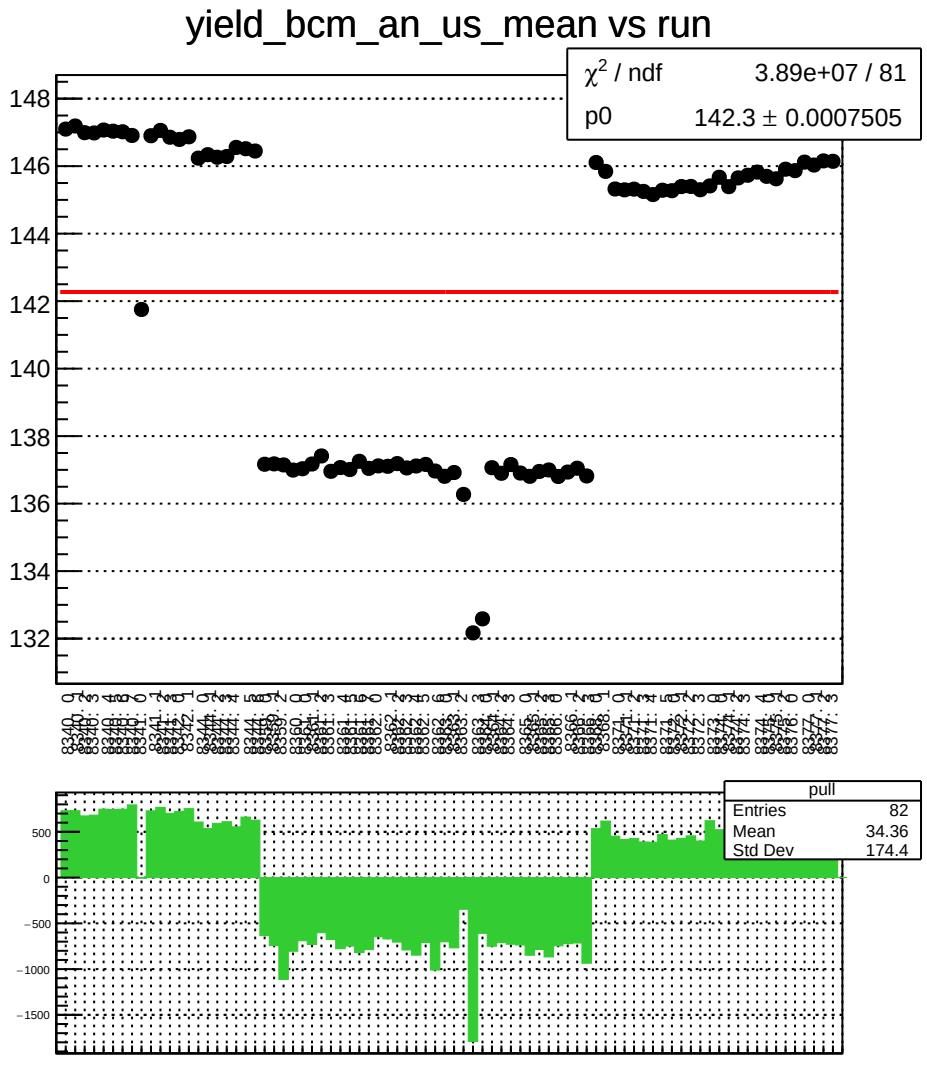

pull1D
Entries 82
Mean −6.881
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

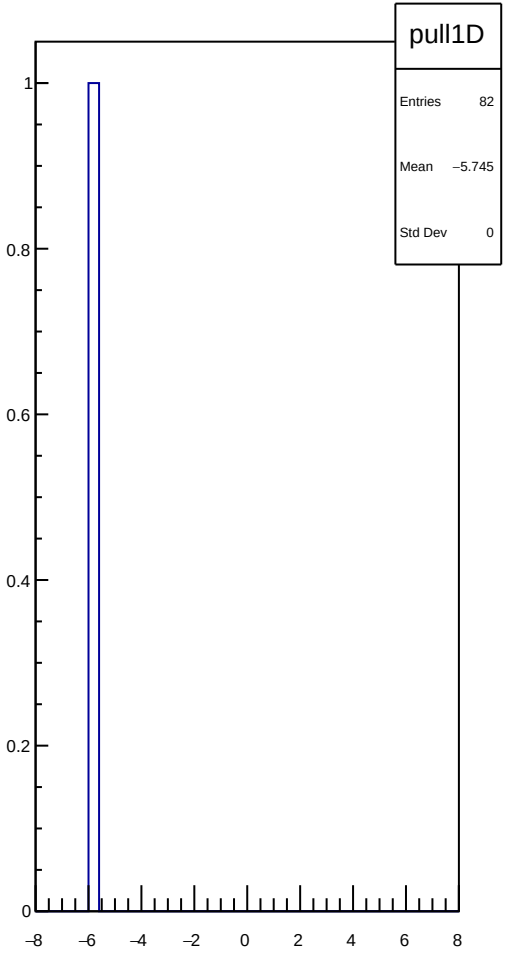

yield_bcm_an_ds_rms vs run
χ² / ndf 3.591e+04 / 81
p0 0.6683 ± 0.0005288
9
8
7
6
5
4
3
2
1

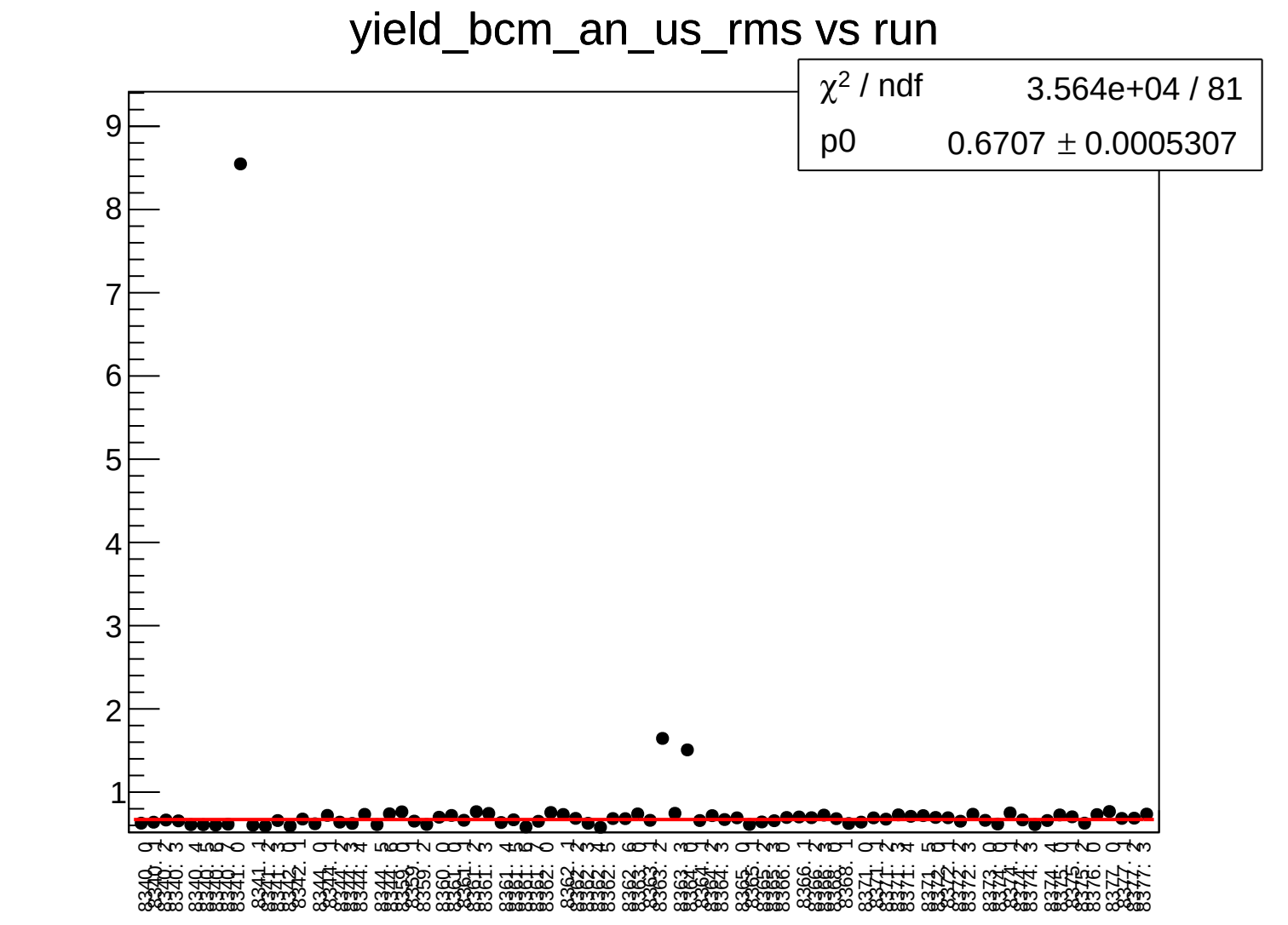

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.845e+07 / 81
p0 142.6 ± 0.0007523
148
146
144
142
140
138
136
134
132
pull
Entries 82
Mean 48.87
Std Dev 168.2
500
0
−500
−1000
−1500

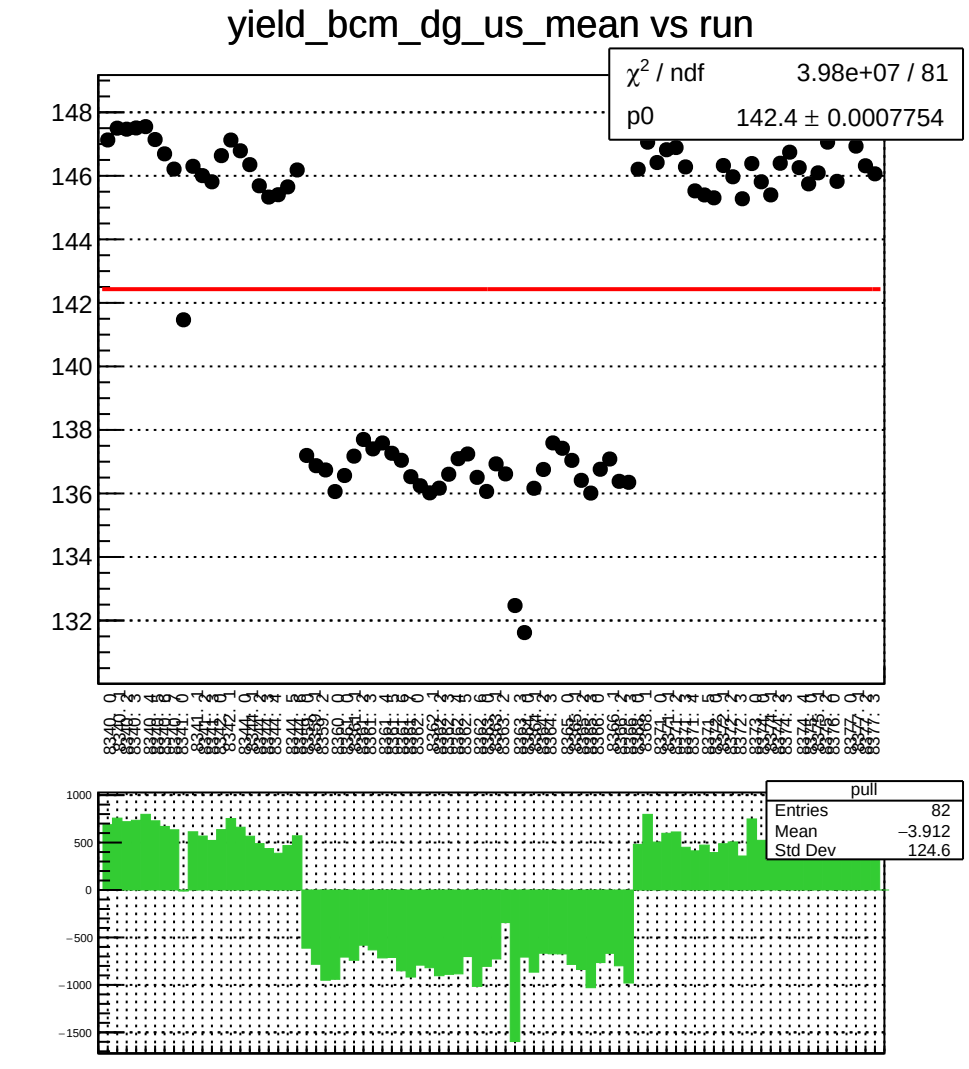

pull1D
Entries 82
Mean −6.192
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

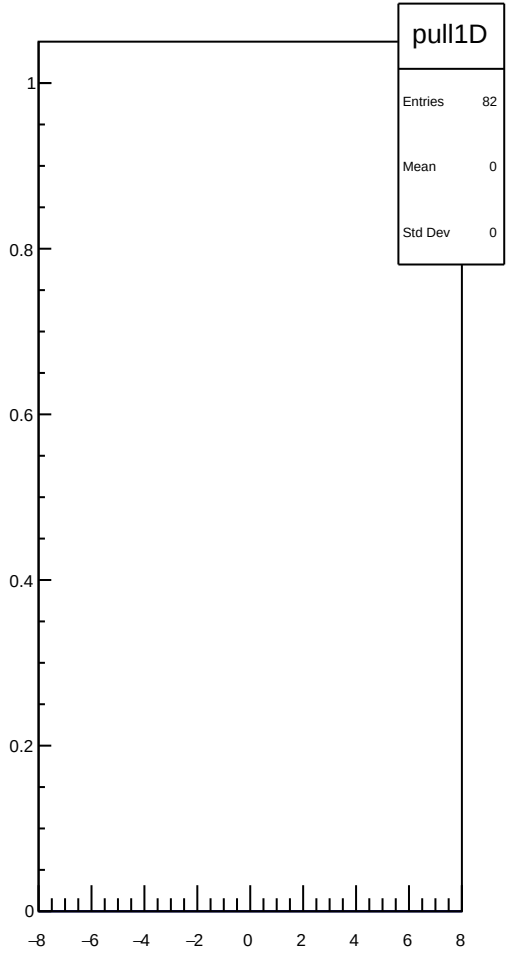

yield_bcm_an_ds3_rms vs run
χ² / ndf 3.577e+04 / 81
p0 0.6723 ± 0.0005319
9
8
7
6
5
4
3
2
1

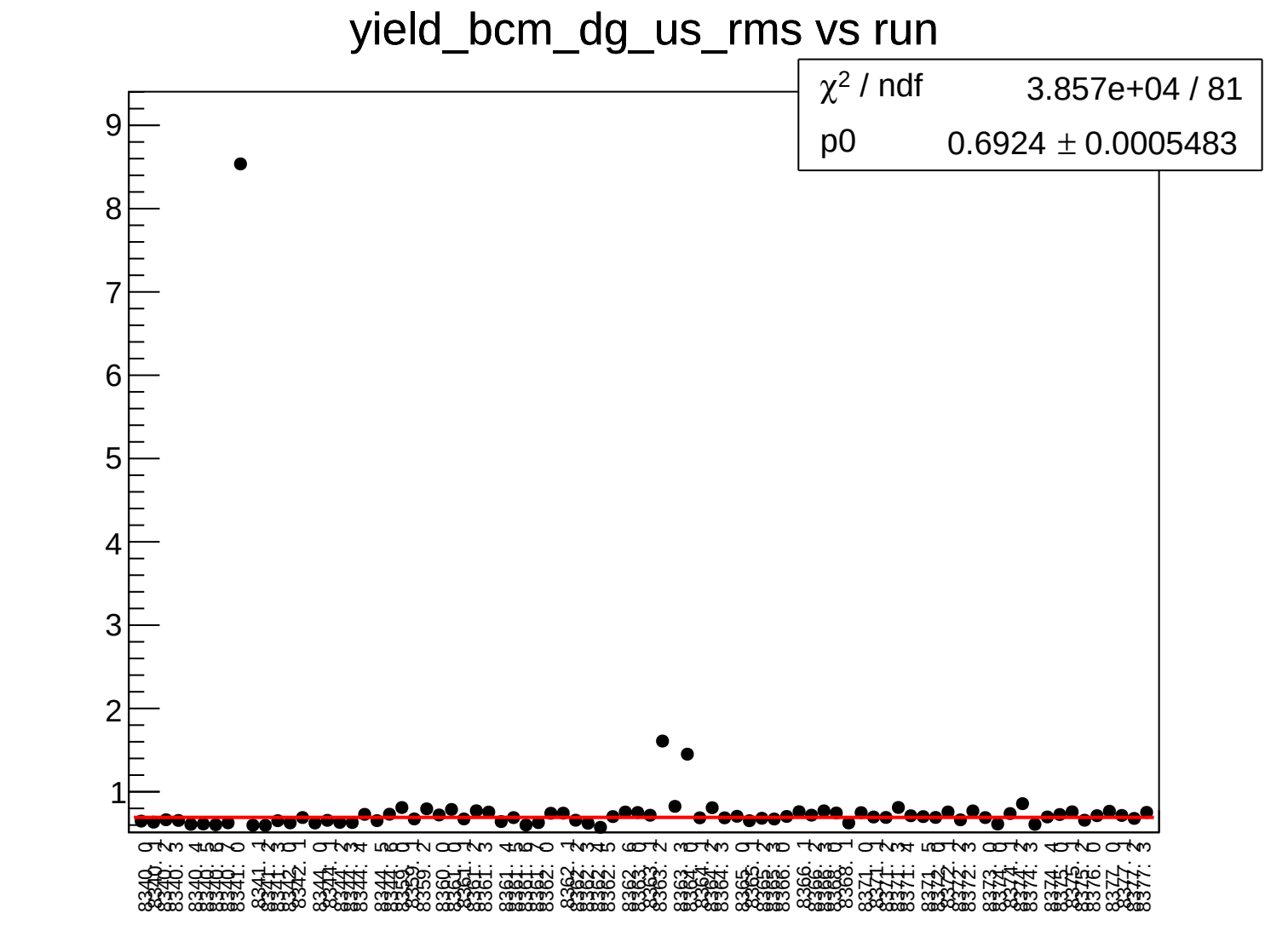

yield_bcm_an_us_mean vs run
χ² / ndf 3.89e+07 / 81
p0 142.3 ± 0.0007505
148
146
144
142
140
138
136
134
132
pull
Entries 82
Mean 34.36
Std Dev 174.4
500
0
−500
−1000
−1500

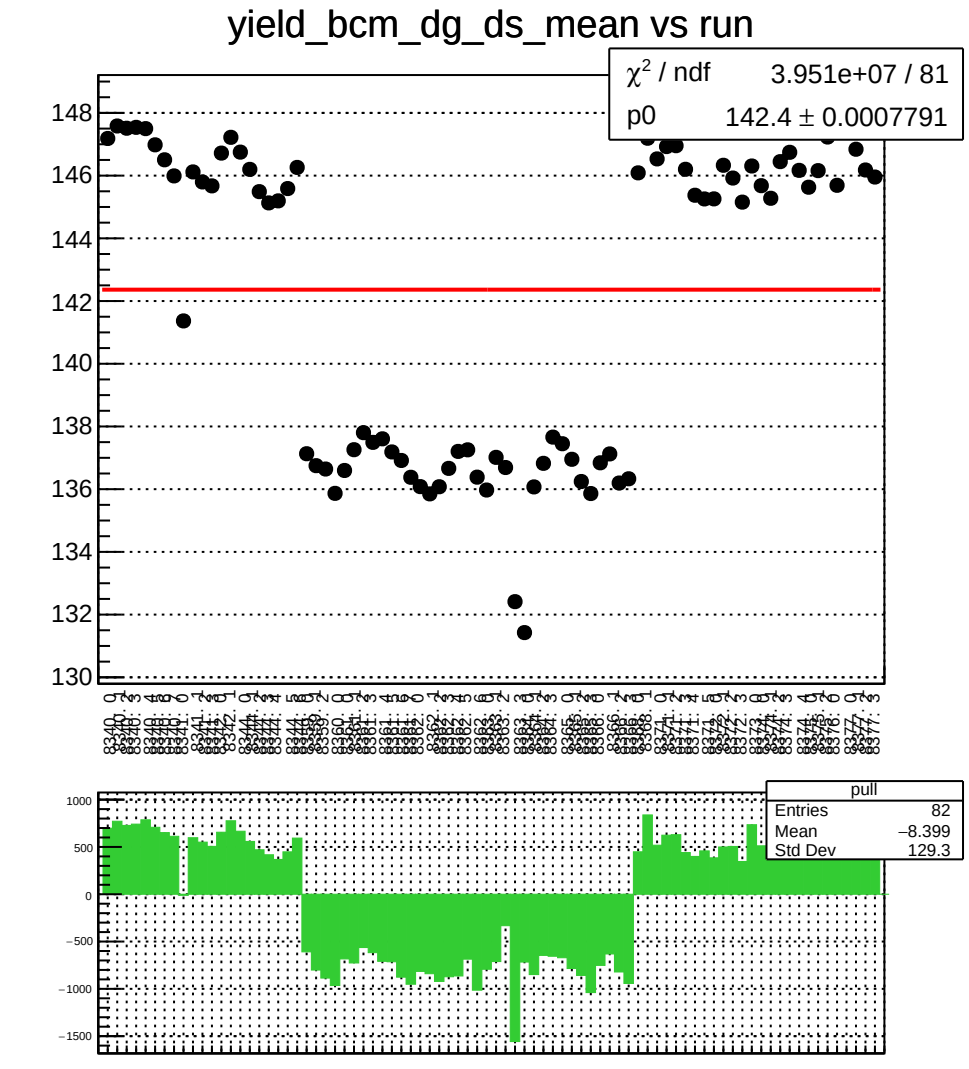

pull1D
Entries 82
Mean −5.745
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

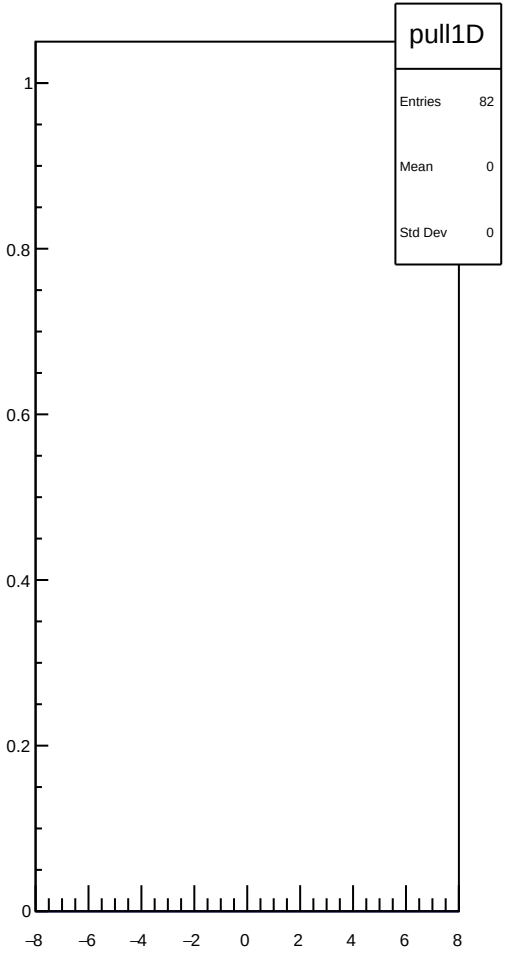

yield_bcm_an_us_rms vs run
χ2 / ndf 3.564e+04 / 81
p0 0.6707 ± 0.0005307
9
8
7
6
5
4
3
2
1

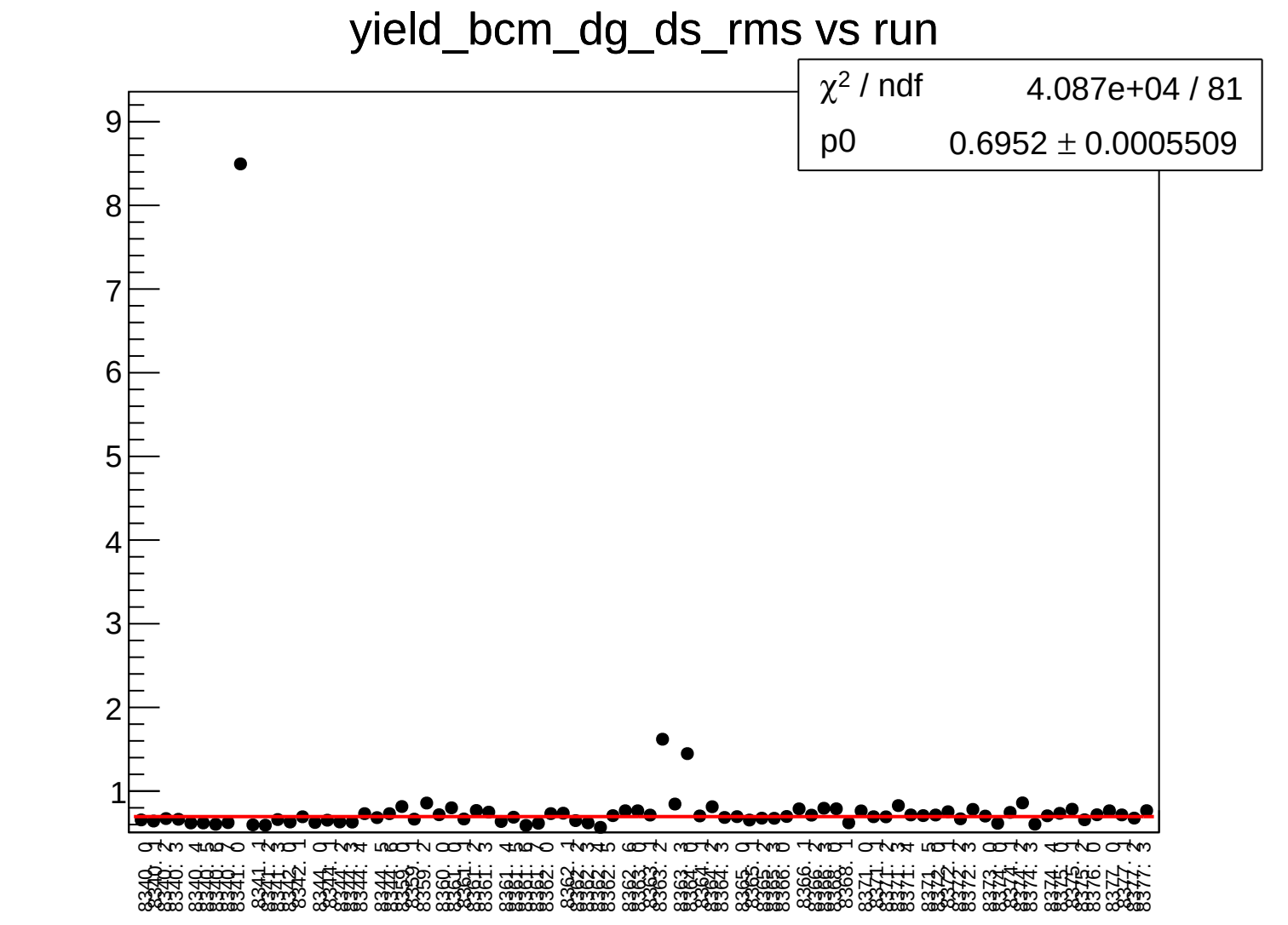

yield_bcm_dg_us_mean vs run
χ² / ndf 3.98e+07 / 81
p0 142.4 ± 0.0007754
148
146
144
142
140
138
136
134
132
pull
Entries 82
Mean −3.912
Std Dev 124.6
1000
500
0
−500
−1000
−1500

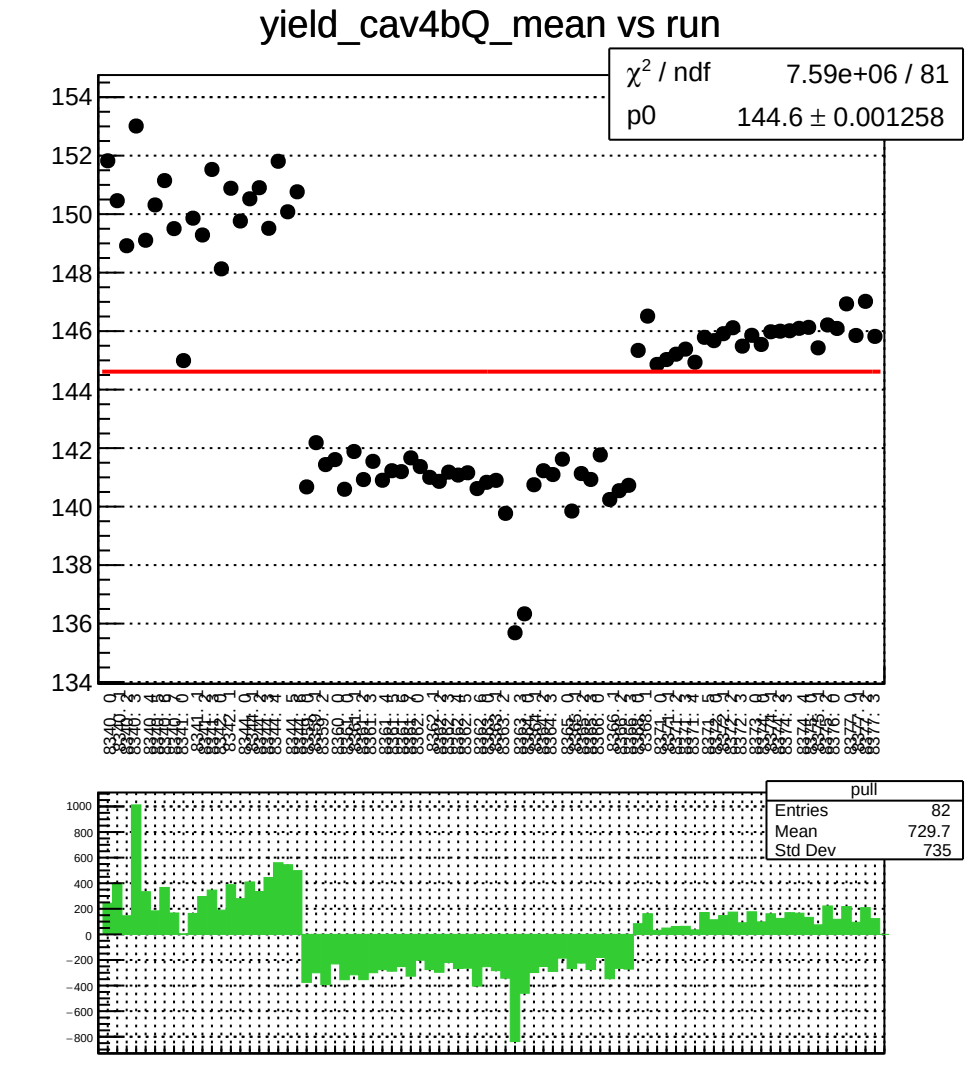

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

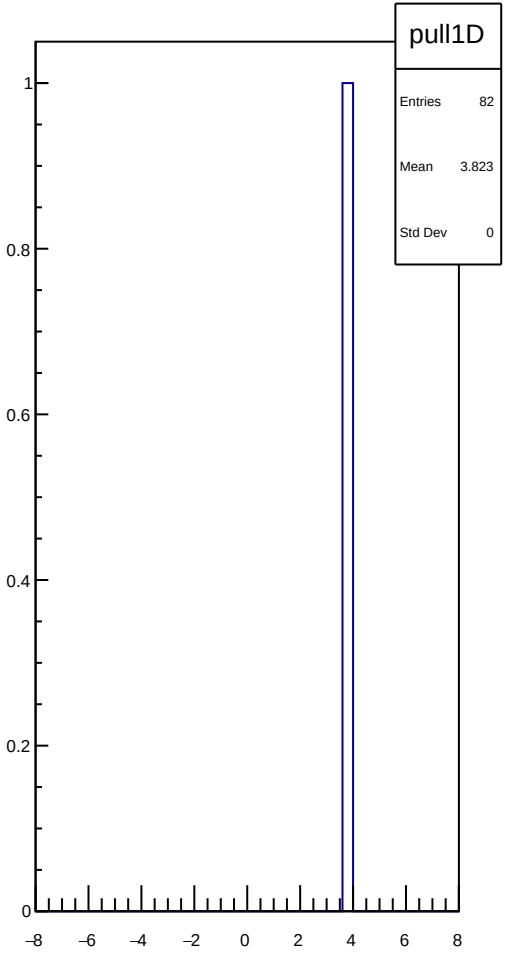

yield_bcm_dg_us_rms vs run
χ² / ndf 3.857e+04 / 81
p0 0.6924 ± 0.0005483
9
8
7
6
5
4
3
2
1


yield_bcm_dg_ds_mean vs run
χ² / ndf 3.951e+07 / 81
p0 142.4 ± 0.0007791
148
146
144
142
140
138
136
134
132
130
pull
Entries 82
Mean −8.399
Std Dev 129.3
1000
500
0
−500
−1000
−1500

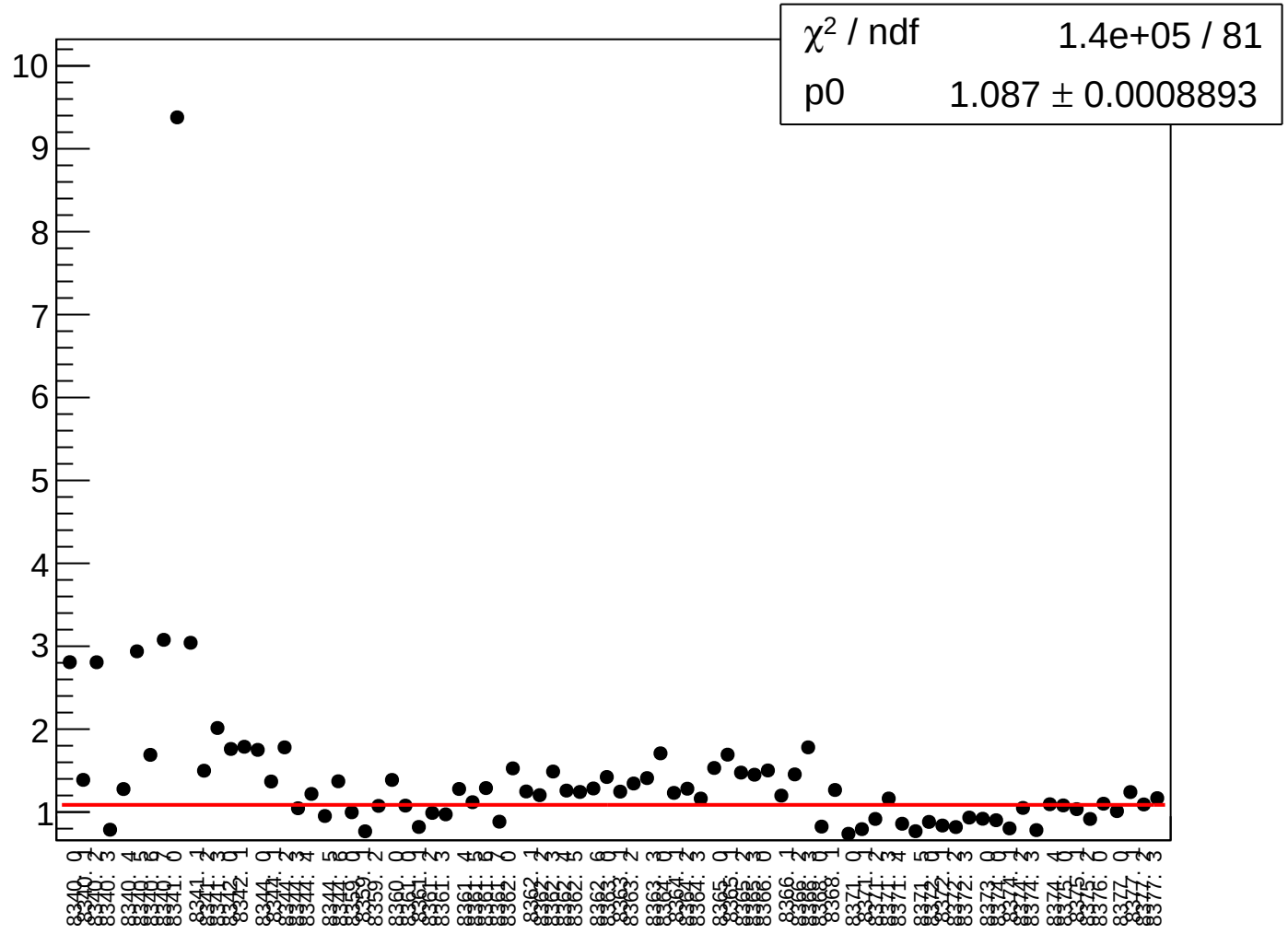

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

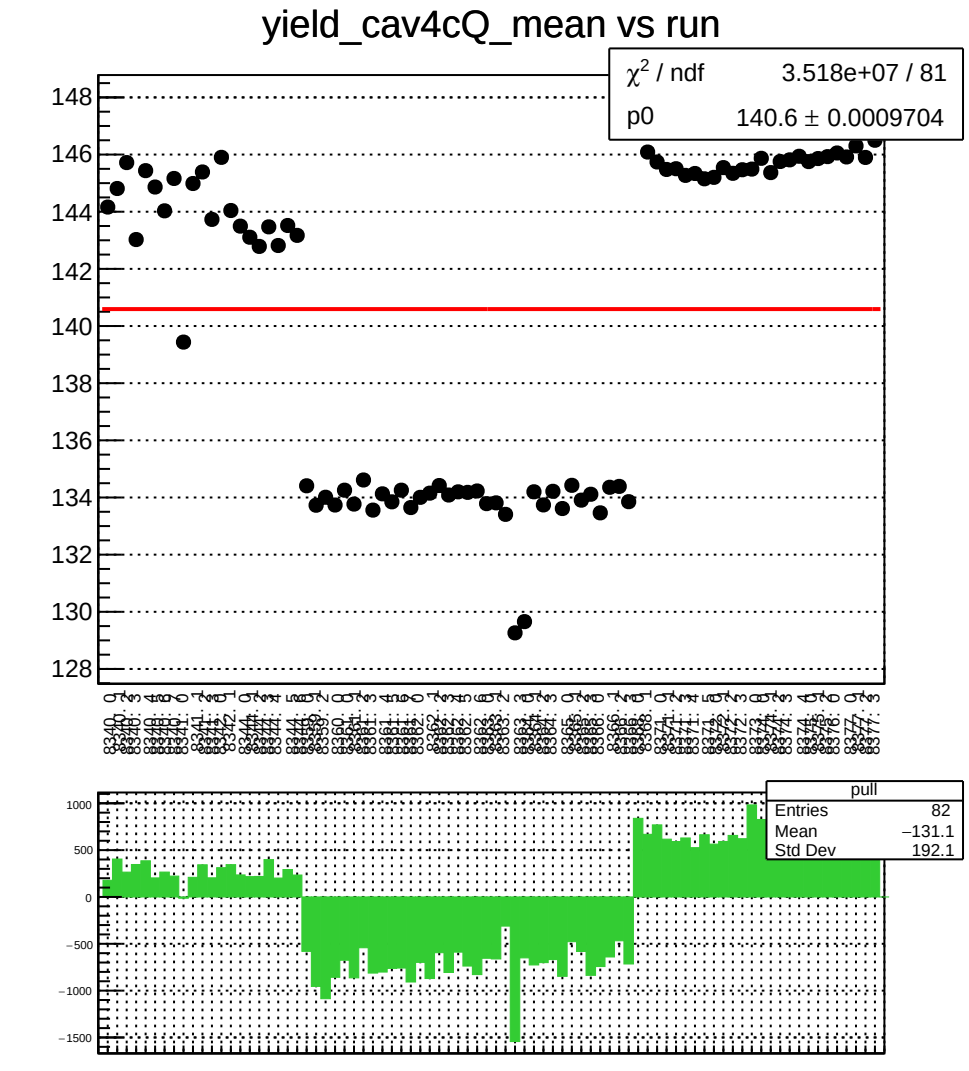

yield_bcm_dg_ds_rms vs run
χ^2 / ndf 4.087e+04 / 81
p0 0.6952 ± 0.0005509
9
8
7
6
5
4
3
2
1

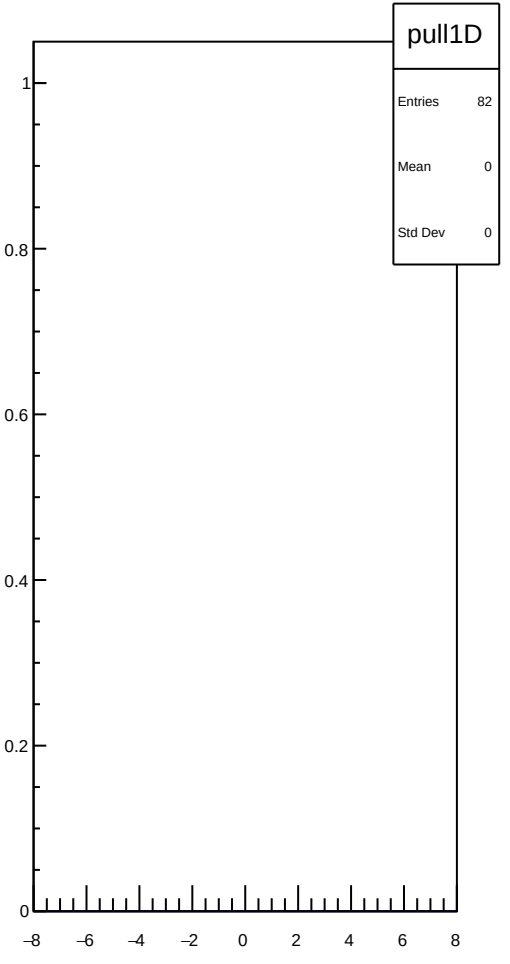

yield_cav4bQ_mean vs run
χ² / ndf 7.59e+06 / 81
p0 144.6 ± 0.001258
pull
Entries 82
Mean 729.7
Std Dev 735

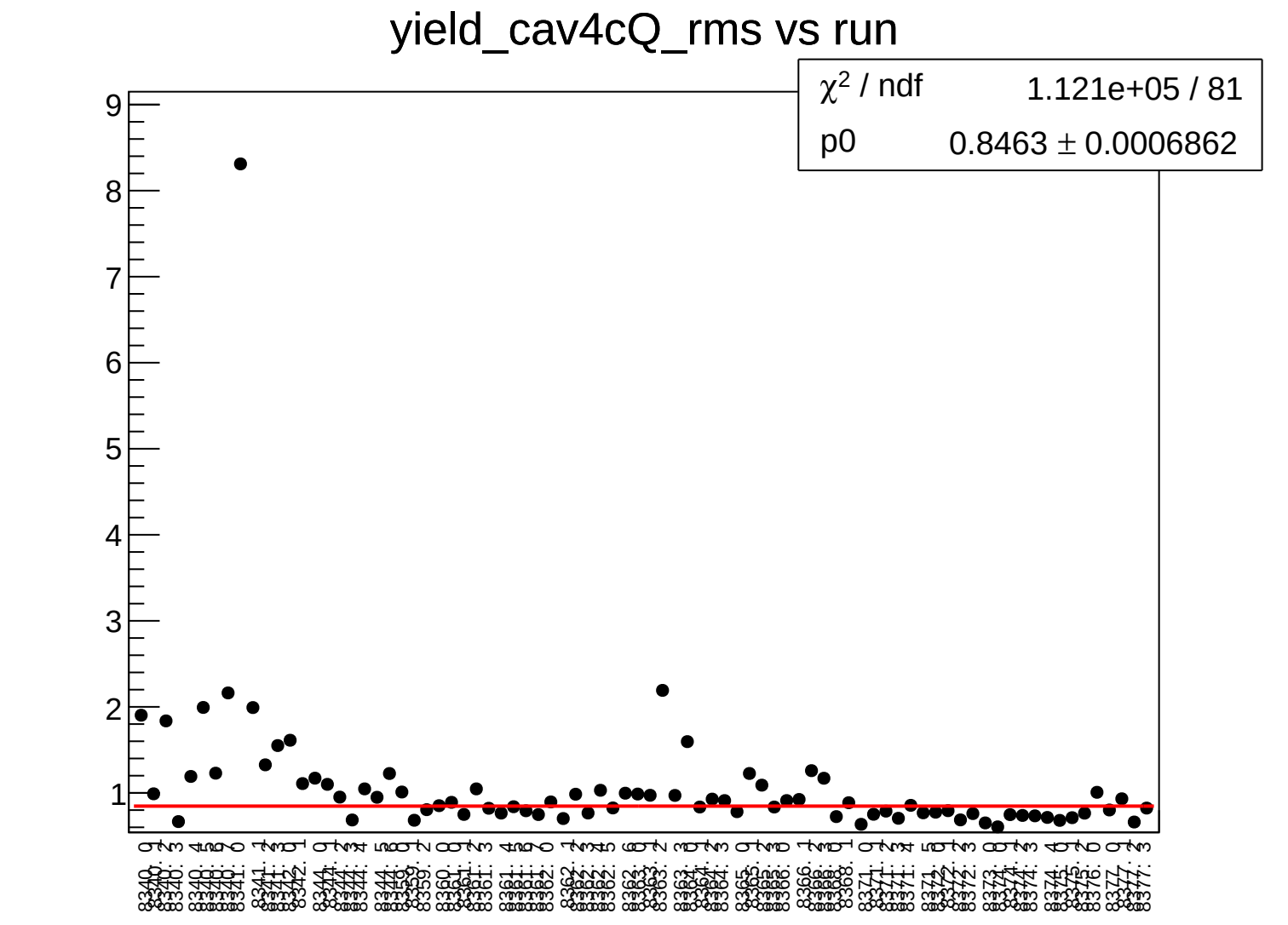

pull1D
Entries 82
Mean 3.823
Std Dev 0

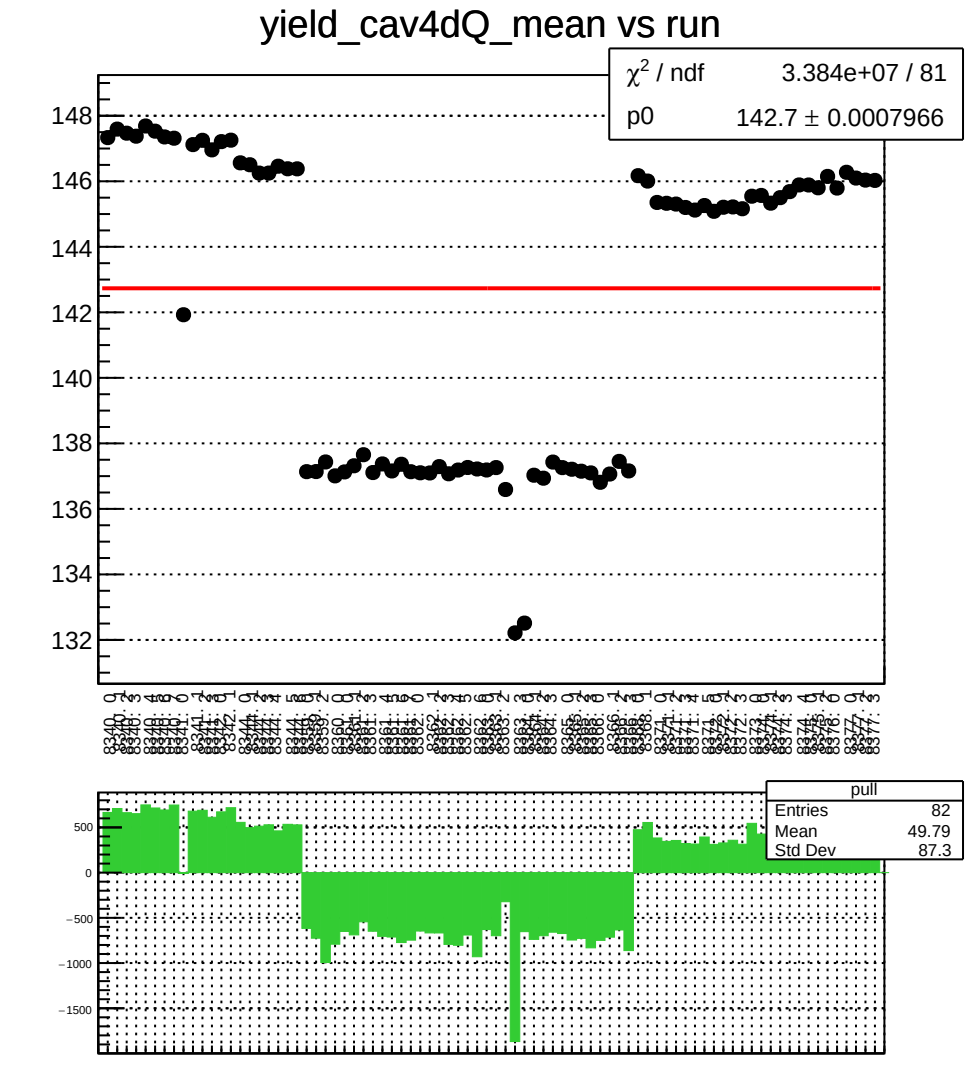
yield_cav4bQ_rms vs run

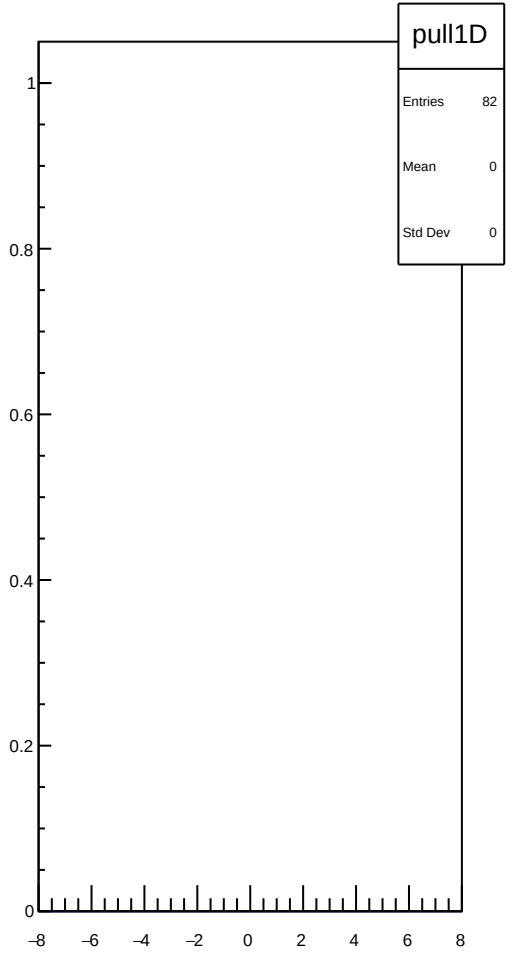


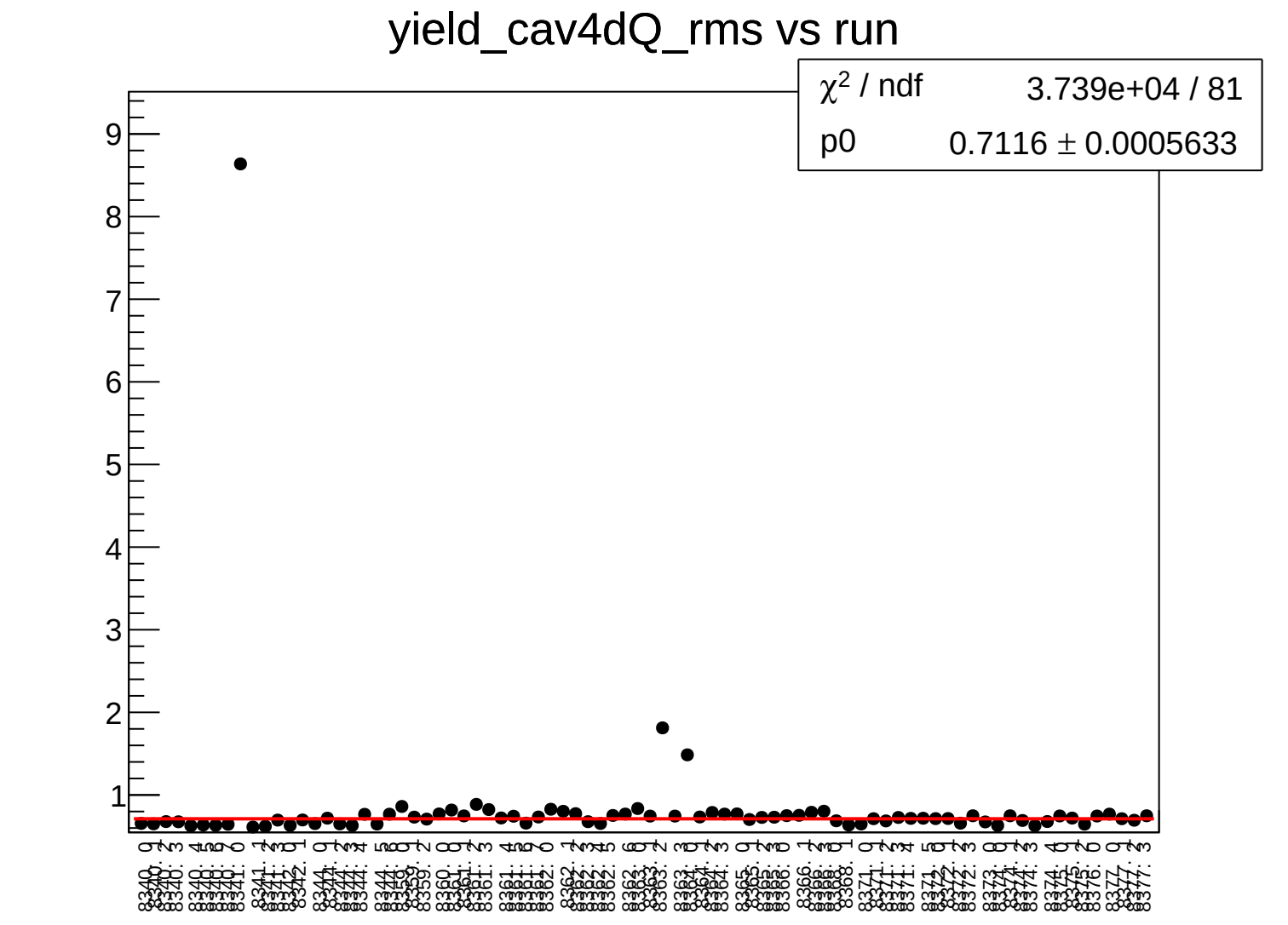

yield_cav4cQ_mean vs run
χ² / ndf 3.518e+07 / 81
p0 140.6 ± 0.0009704
148
146
144
142
140
138
136
134
132
130
128
pull
Entries 82
Mean −131.1
Std Dev 192.1
1000
500
0
−500
−1000
−1500

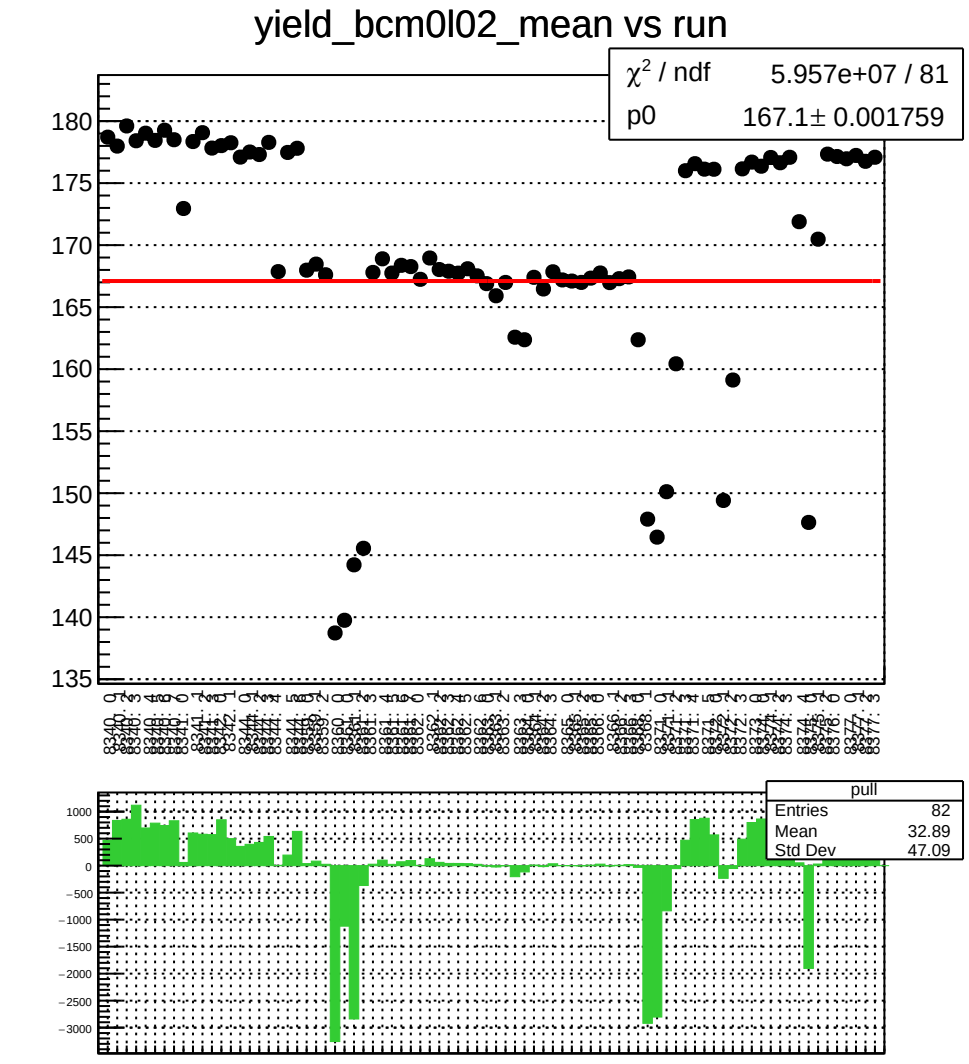

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

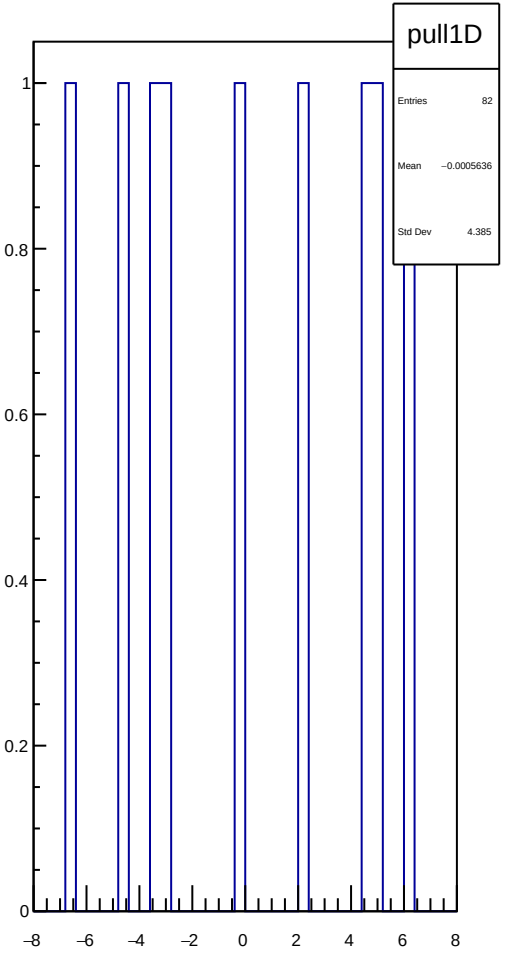

yield_cav4cQ_rms vs run
χ² / ndf 1.121e+05 / 81
p0 0.8463 ± 0.0006862
9
8
7
6
5
4
3
2
1

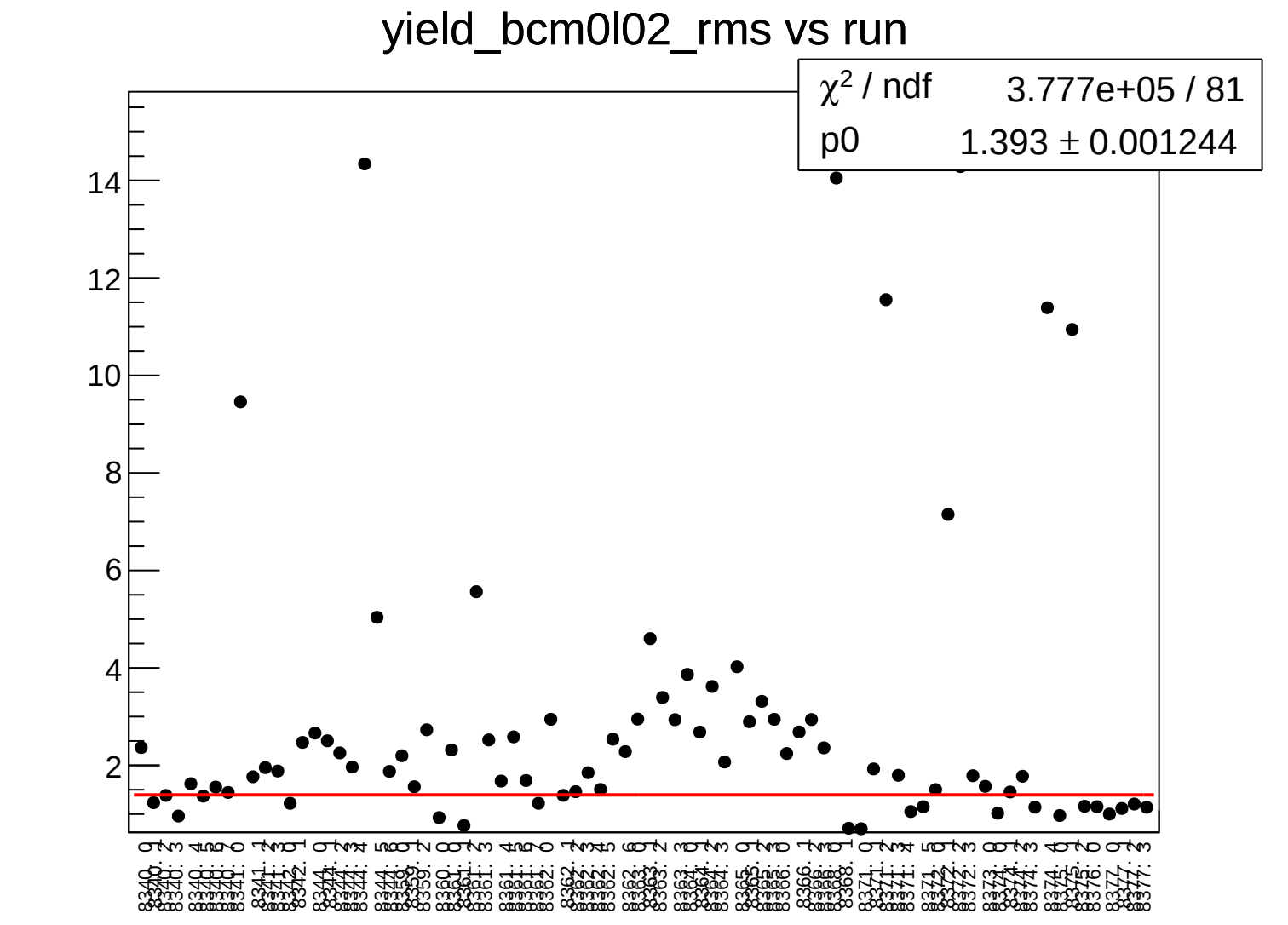

yield_cav4dQ_mean vs run
χ² / ndf 3.384e+07 / 81
p0 142.7 ± 0.0007966
148
146
144
142
140
138
136
134
132
pull
Entries 82
Mean 49.79
Std Dev 87.3
500
0
−500
−1000
−1500

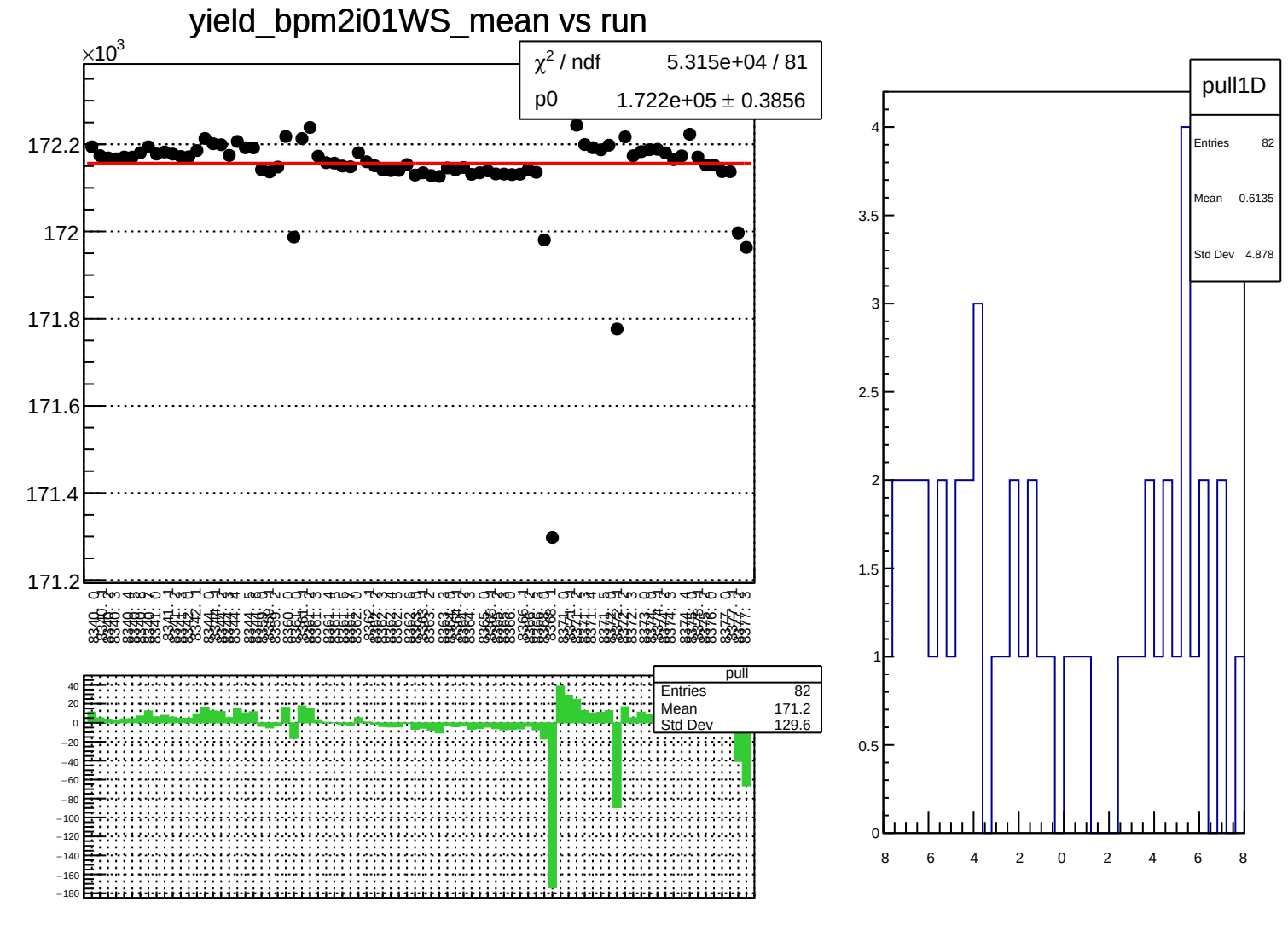

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

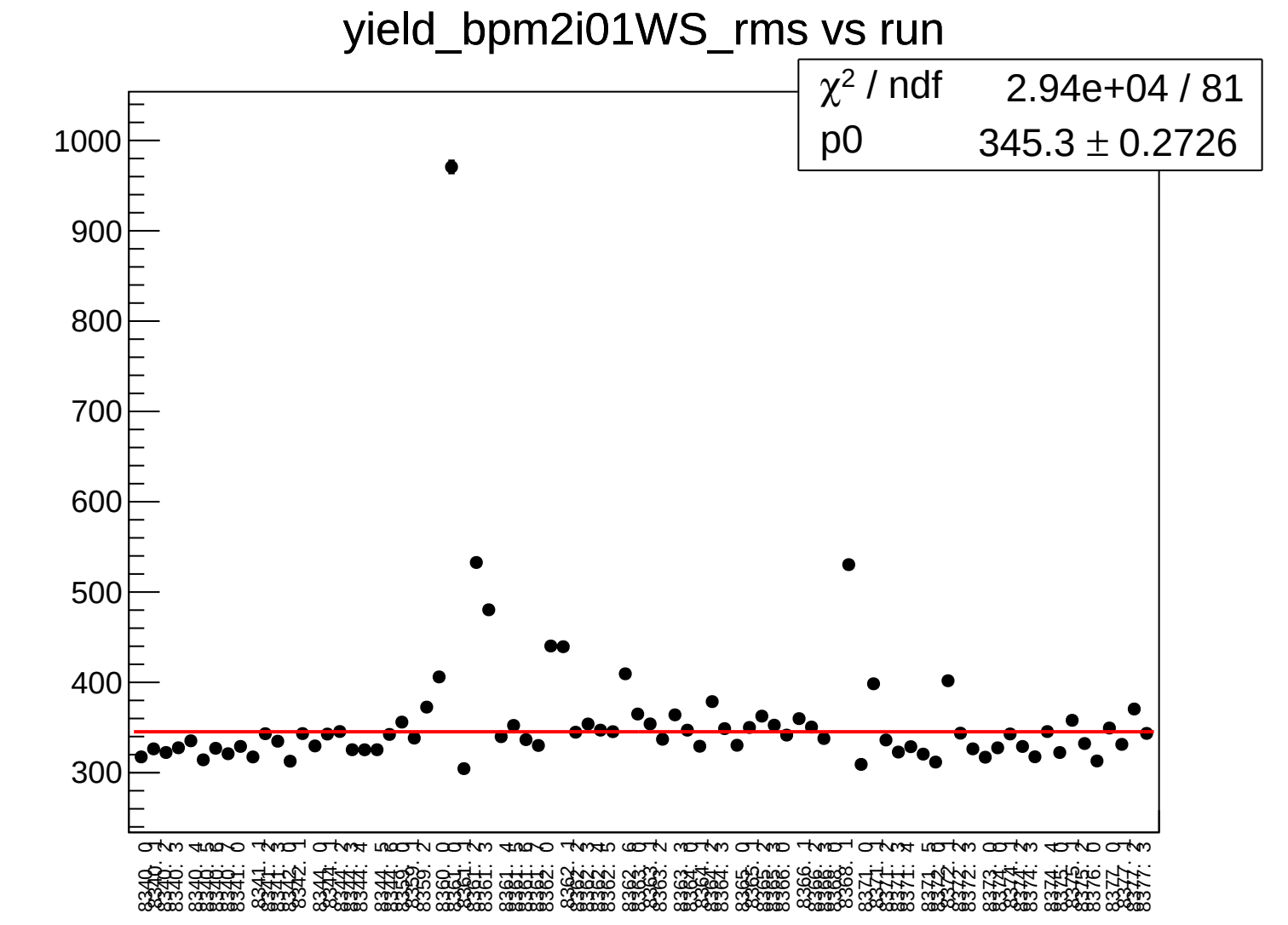

yield_cav4dQ_rms vs run
χ² / ndf 3.739e+04 / 81
p0 0.7116 ± 0.0005633
9
8
7
6
5
4
3
2
1

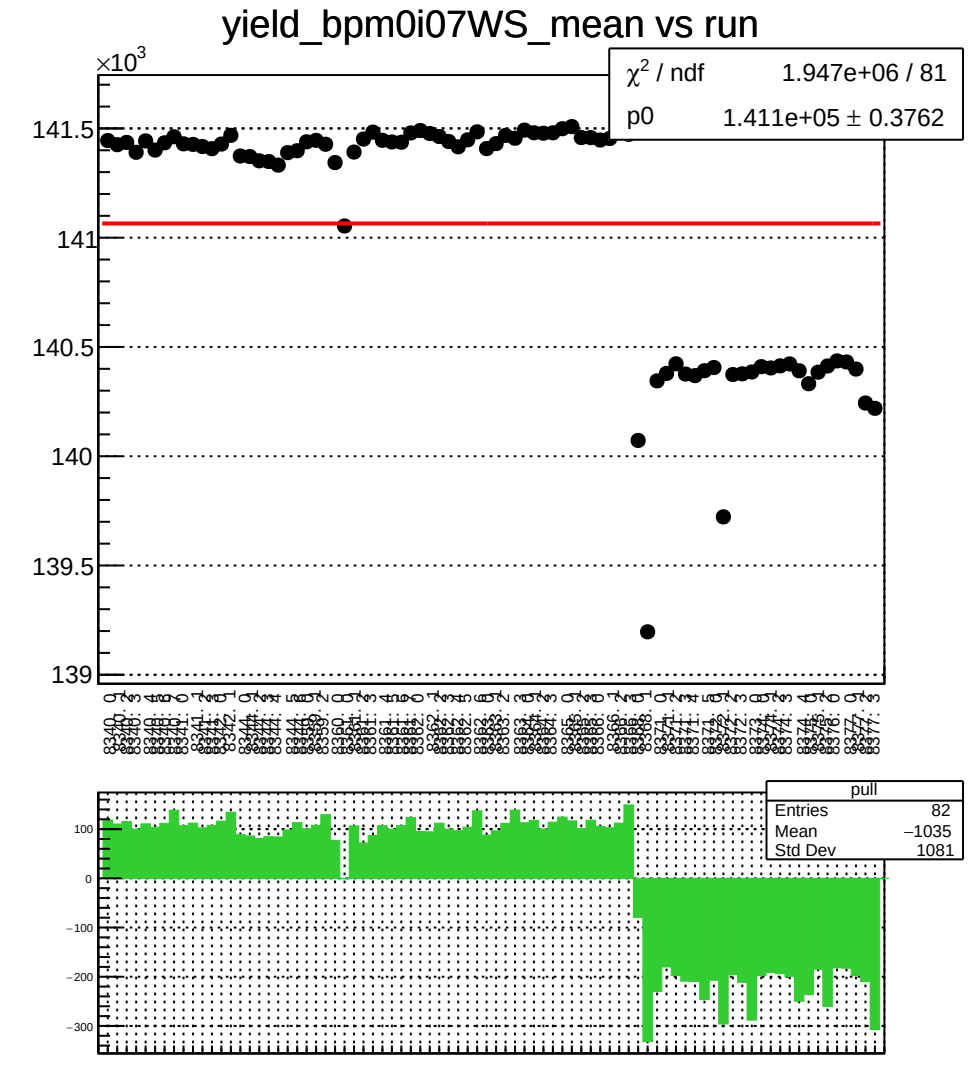

yield_bcm0l02_mean vs run
χ² / ndf 5.957e+07 / 81
p0 167.1± 0.001759
pull
Entries 82
Mean 32.89
Std Dev 47.09

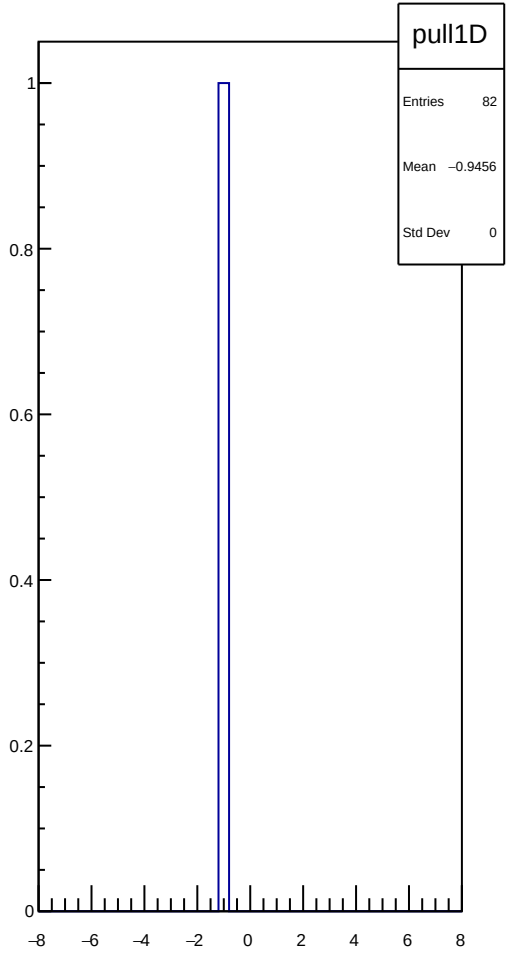

pull1D
Entries 82
Mean −0.0005636
Std Dev 4.385

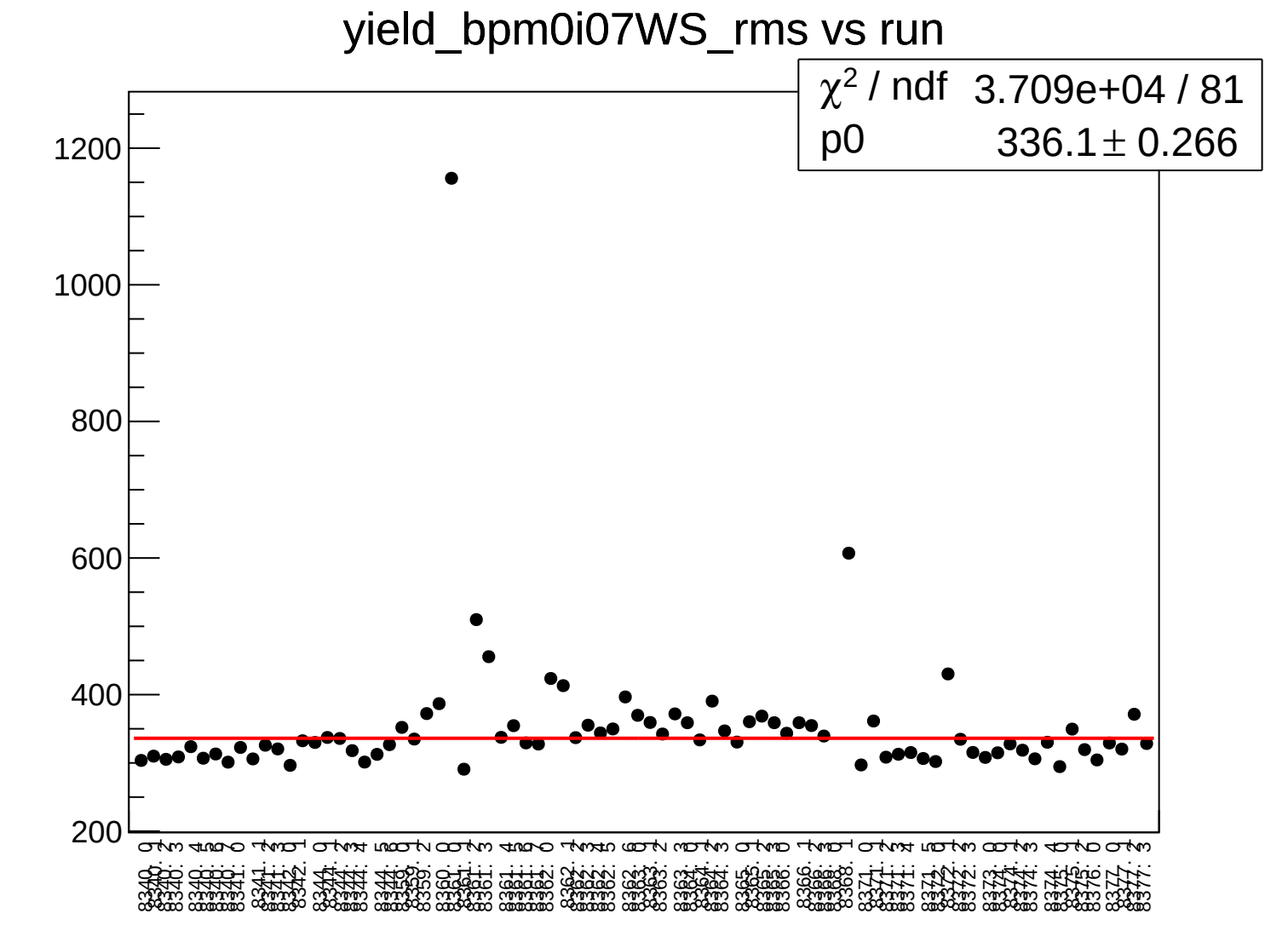

yield_bcm0l02_rms vs run
χ² / ndf 3.777e+05 / 81
p0 1.393 ± 0.001244
14
12
10
8
6
4
2

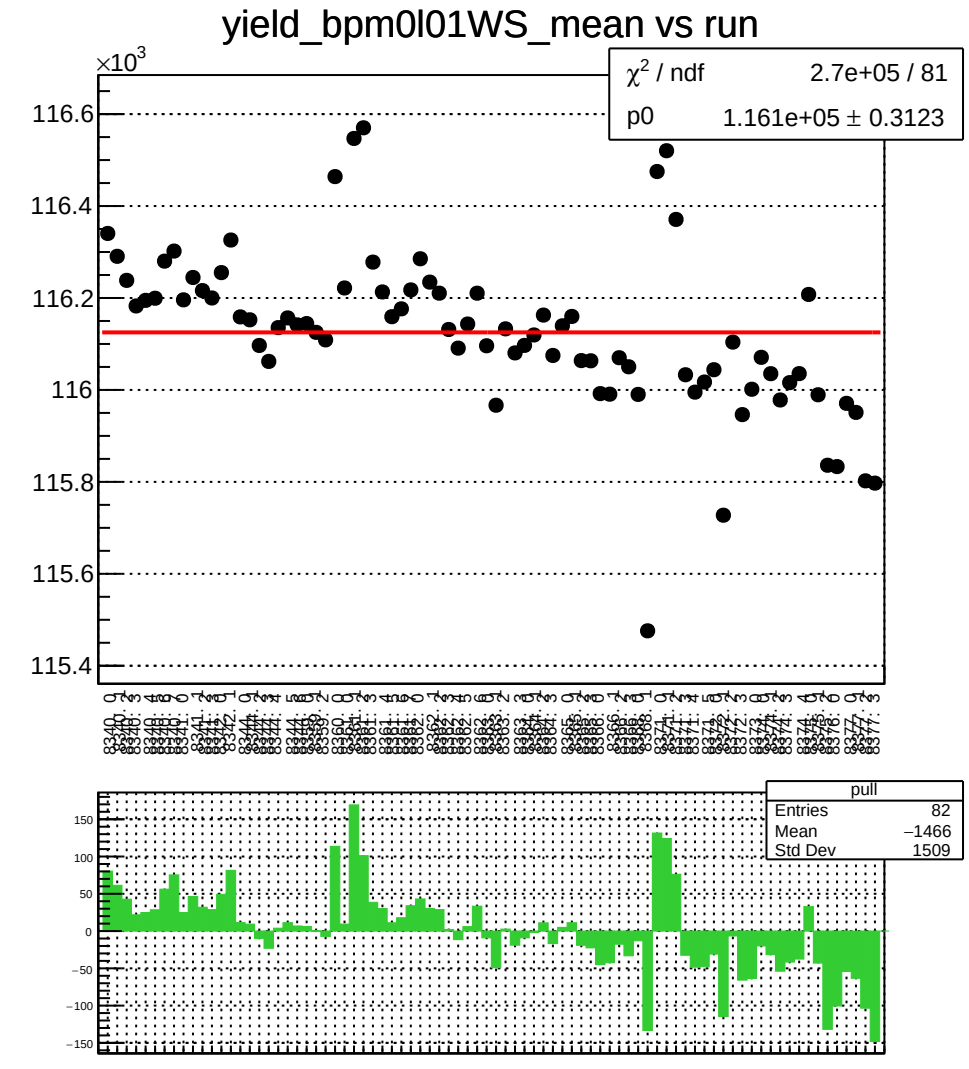

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5.315e+04 / 81
p0 1.722e+05 ± 0.3856
172.2
172
171.8
171.6
171.4
171.2
pull
Entries 82
Mean 171.2
Std Dev 129.6
40
20
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
pull1D
Entries 82
Mean −0.6135
Std Dev 4.878
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

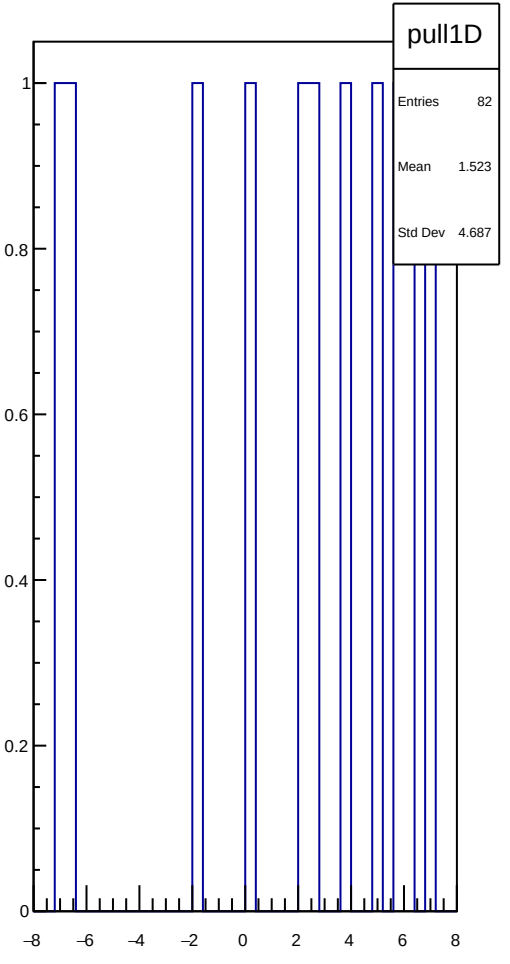

yield_bpm2i01WS_rms vs run
χ² / ndf 2.94e+04 / 81
p0 345.3 ± 0.2726
1000
900
800
700
600
500
400
300

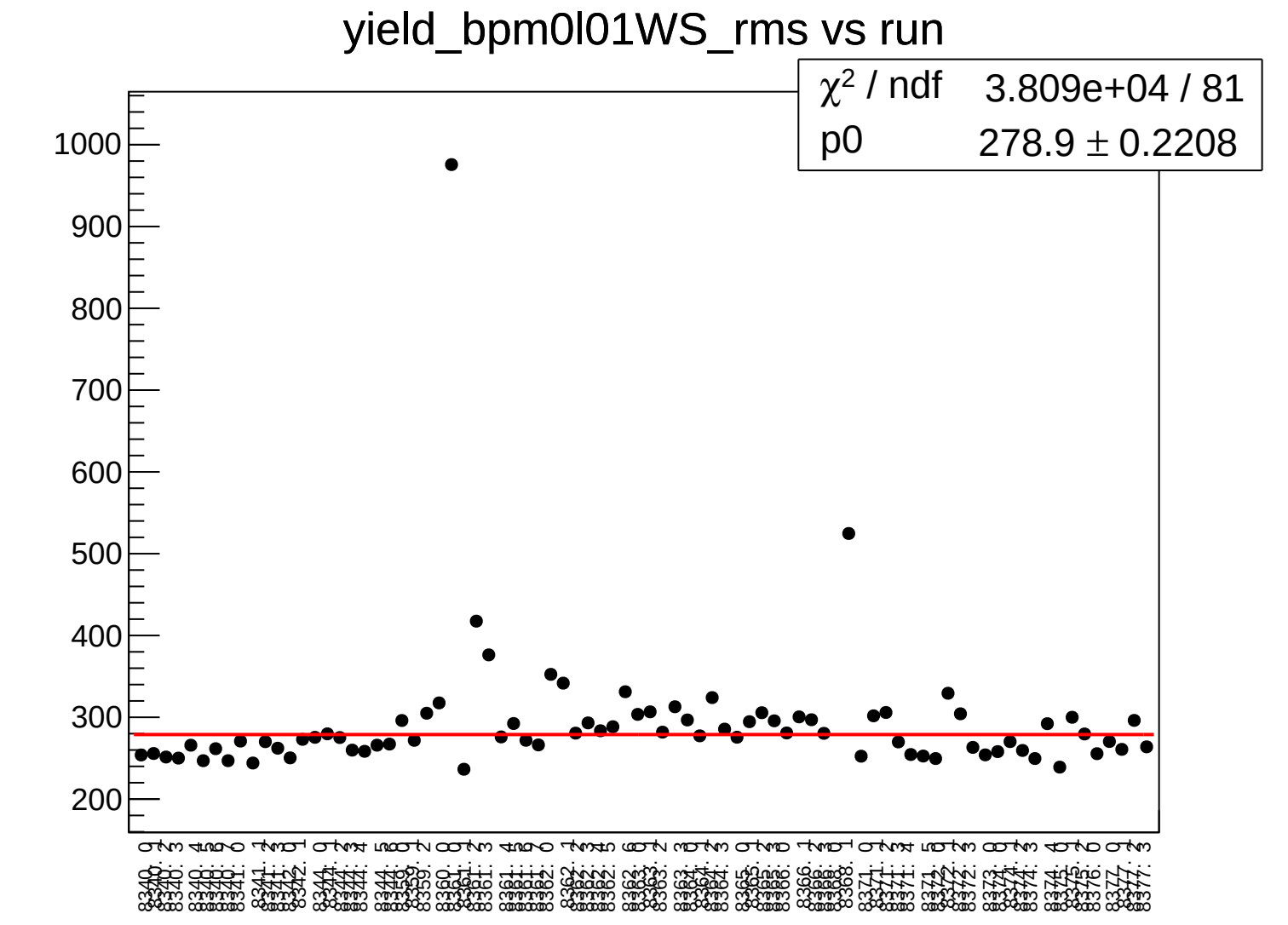

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.947e+06 / 81
p0 1.411e+05 ± 0.3762
141.5
141
140.5
140
139.5
139
pull
Entries 82
Mean −1035
Std Dev 1081
100
0
−100
−200
−300

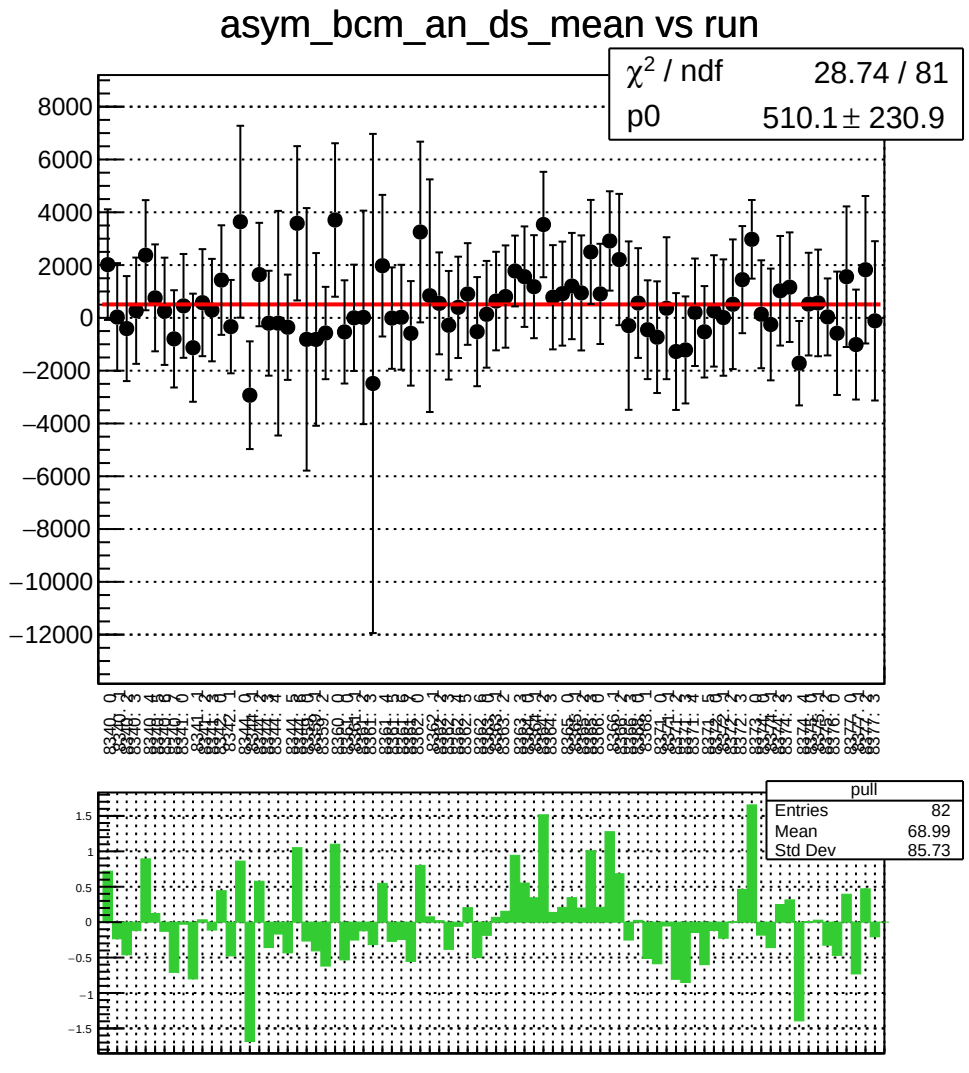

pull1D
Entries 82
Mean −0.9456
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

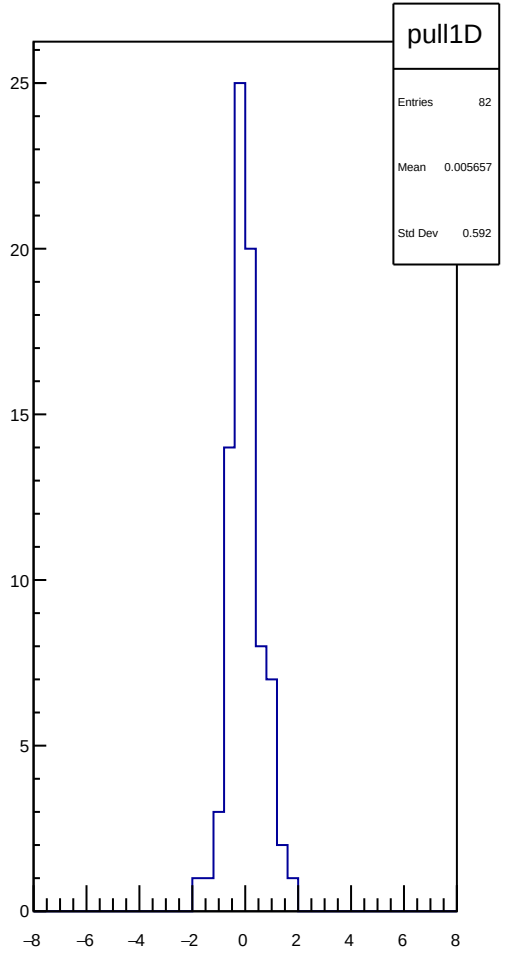

yield_bpm0i07WS_rms vs run
χ² / ndf 3.709e+04 / 81
p0 336.1 ± 0.266
1200
1000
800
600
400
200

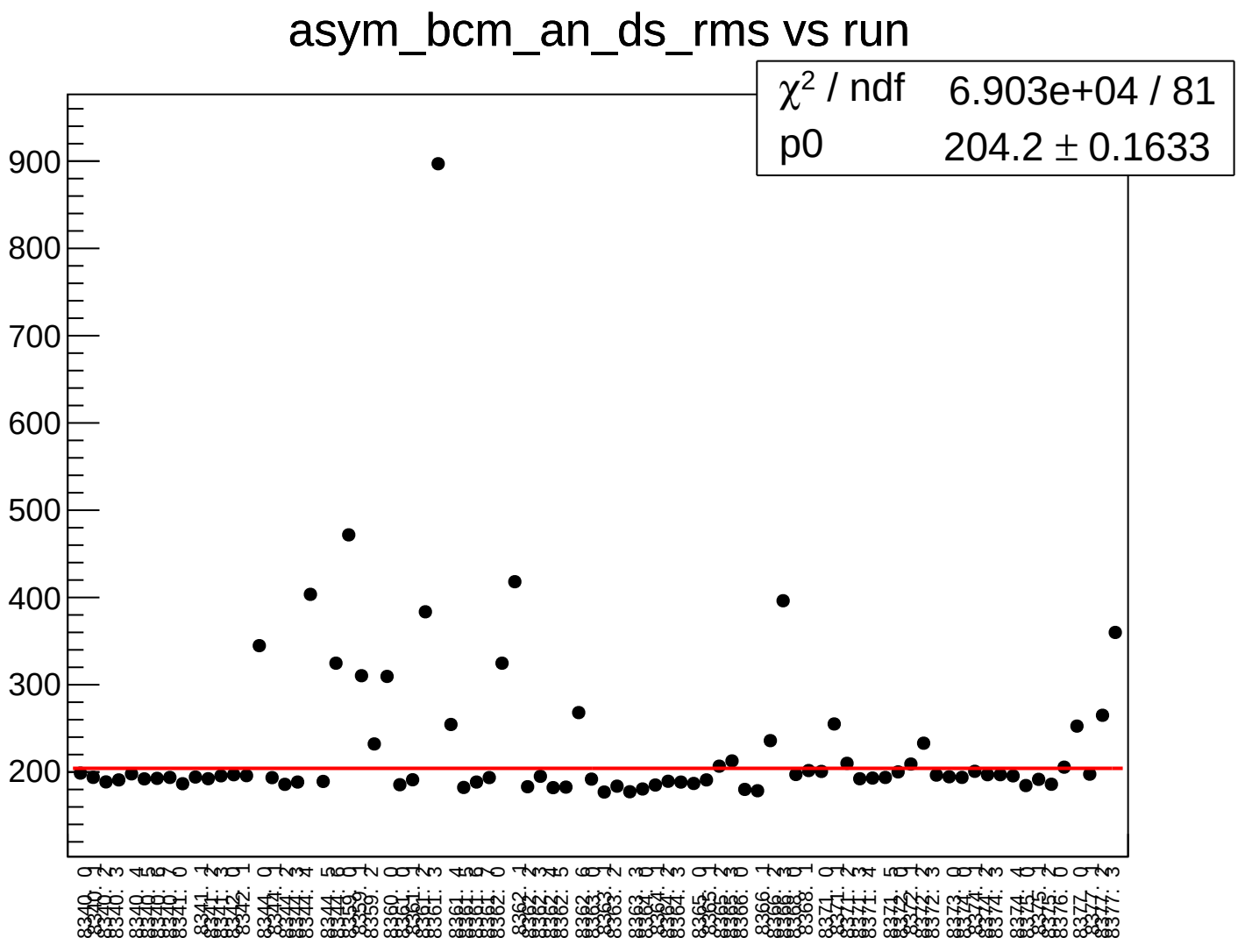

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 2.7e+05 / 81
p0 1.161e+05 ± 0.3123
116.6
116.4
116.2
116
115.8
115.6
115.4
pull
Entries 82
Mean −1466
Std Dev 1509
150
100
50
0
−50
−100
−150

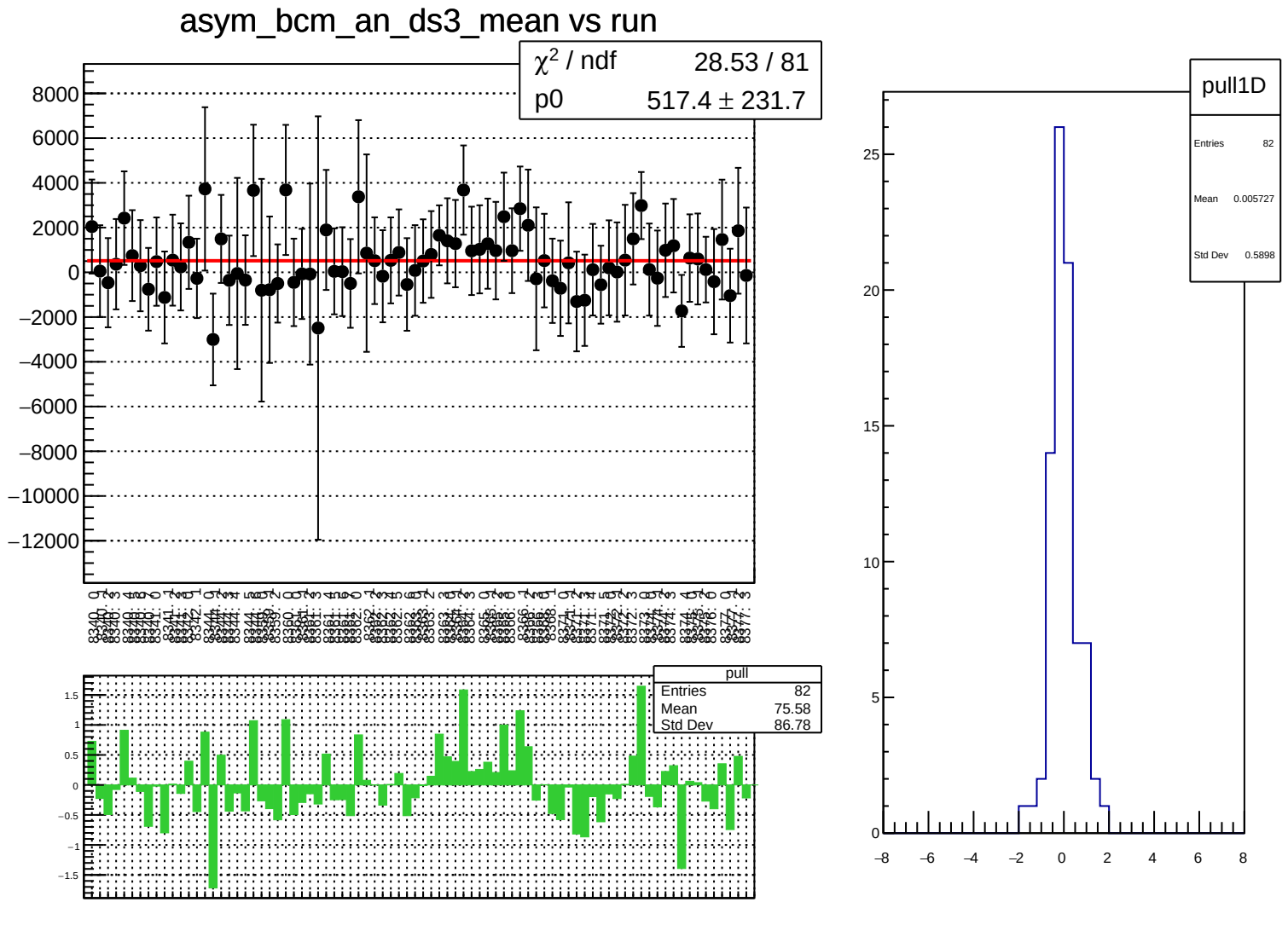

pull1D
Entries 82
Mean 1.523
Std Dev 4.687
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

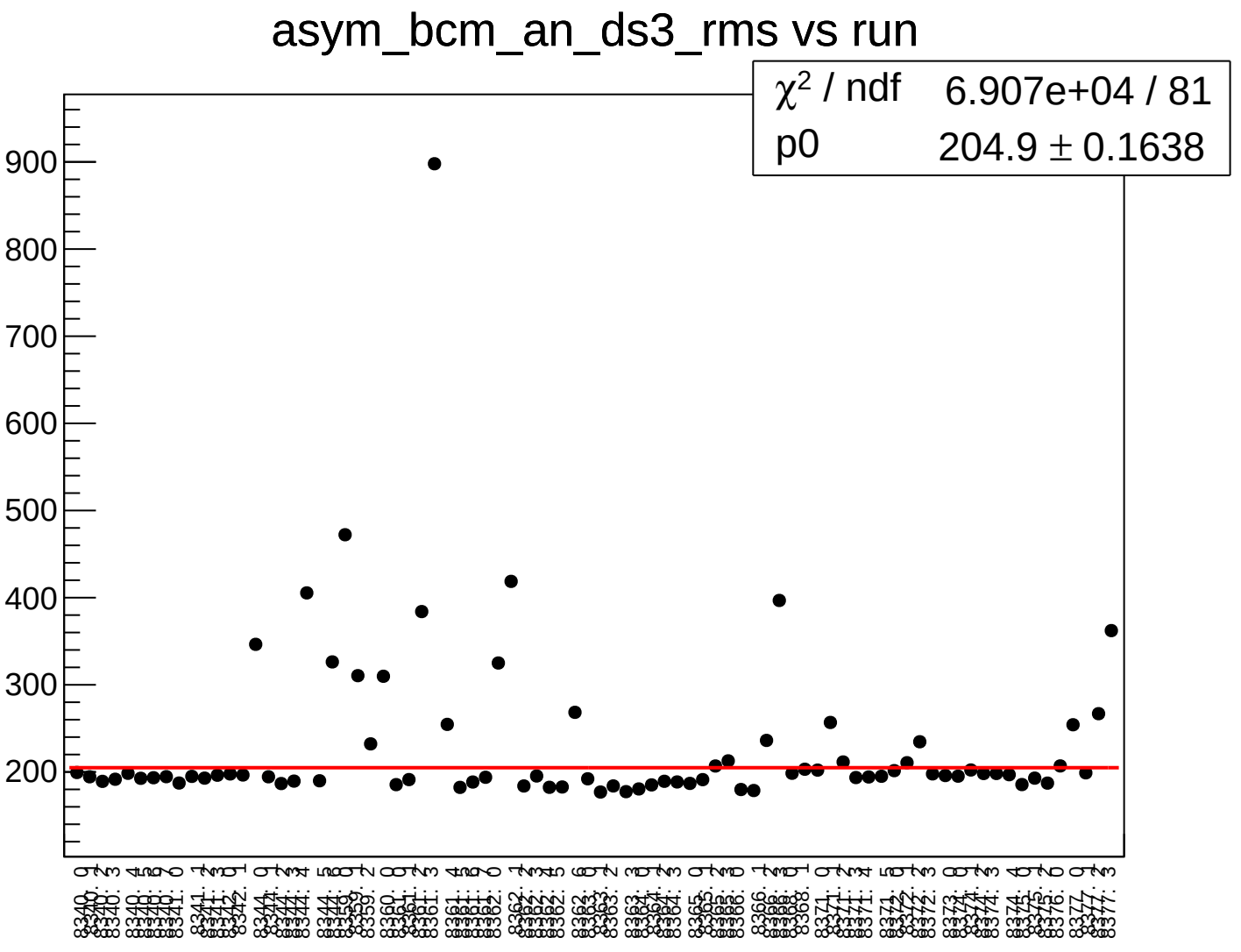

yield_bpm0l01WS_rms vs run
χ² / ndf 3.809e+04 / 81
p0 278.9 ± 0.2208
1000
900
800
700
600
500
400
300
200

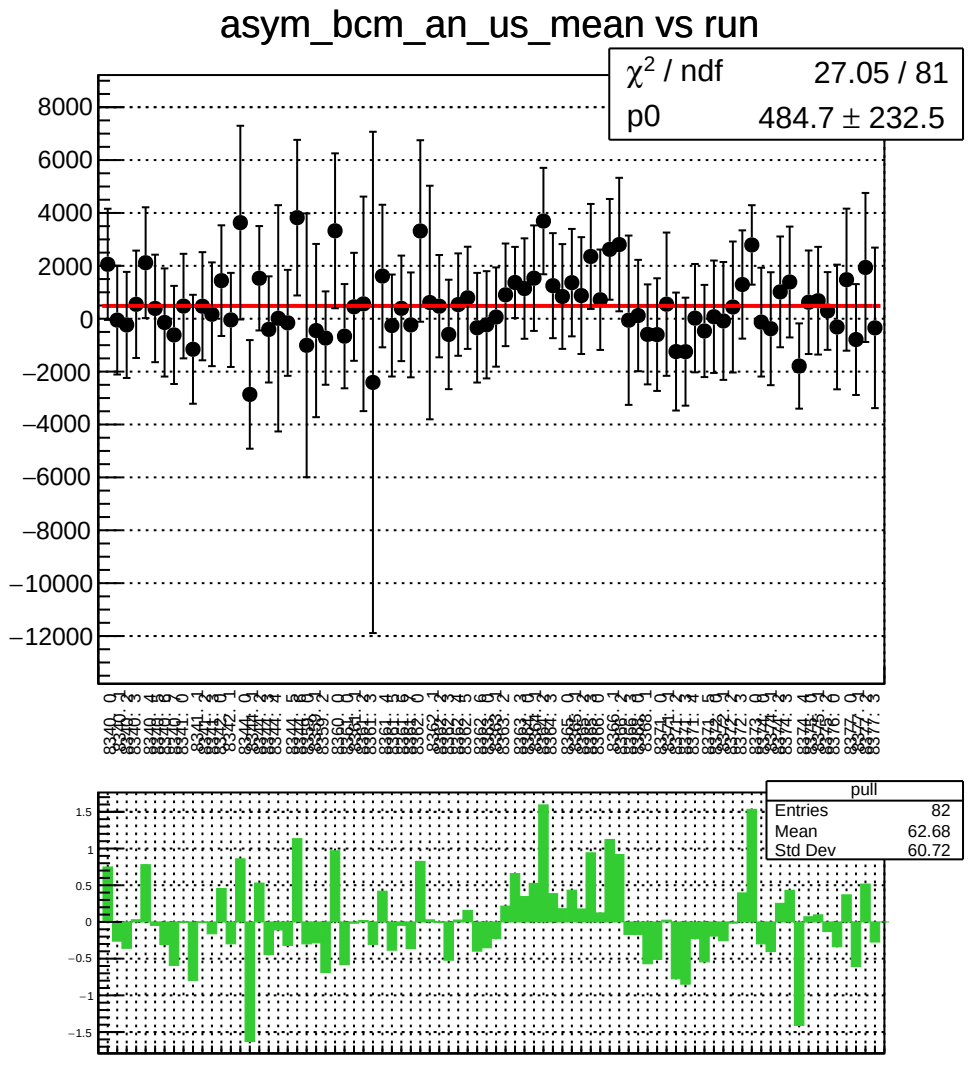

asym_bcm_an_ds_mean vs run
χ² / ndf 28.74 / 81
p0 510.1 ± 230.9
pull
Entries 82
Mean 68.99
Std Dev 85.73

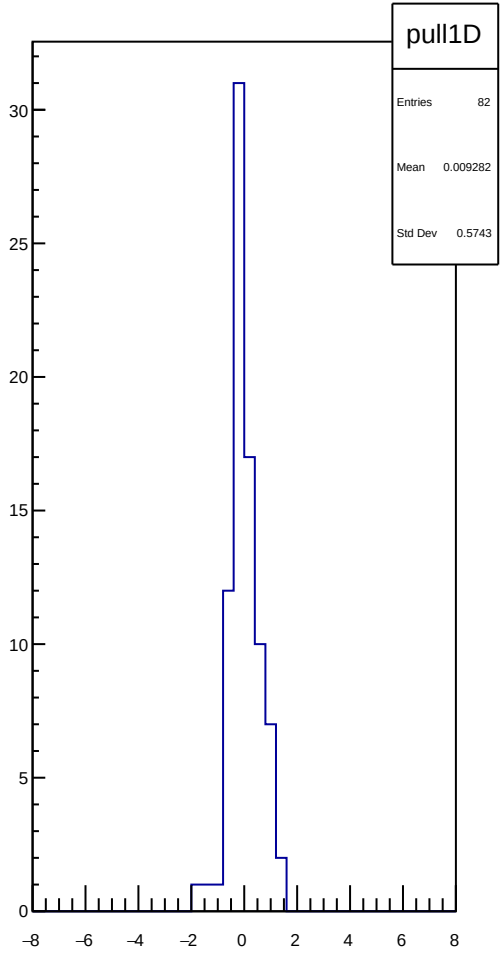

pull1D
Entries 82
Mean 0.005657
Std Dev 0.592

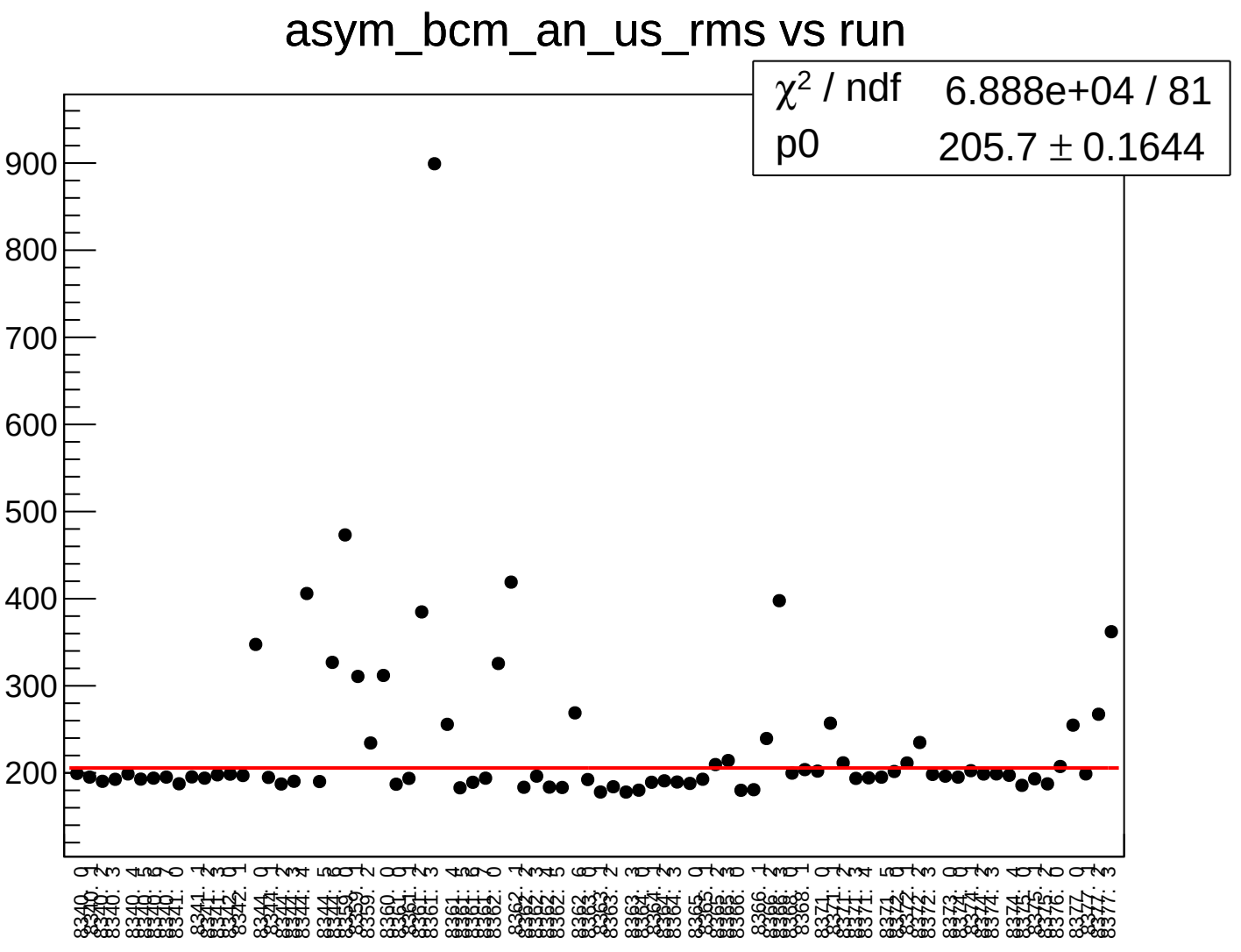

asym_bcm_an_ds_rms vs run
χ² / ndf 6.903e+04 / 81
p0 204.2 ± 0.1633
900
800
700
600
500
400
300
200

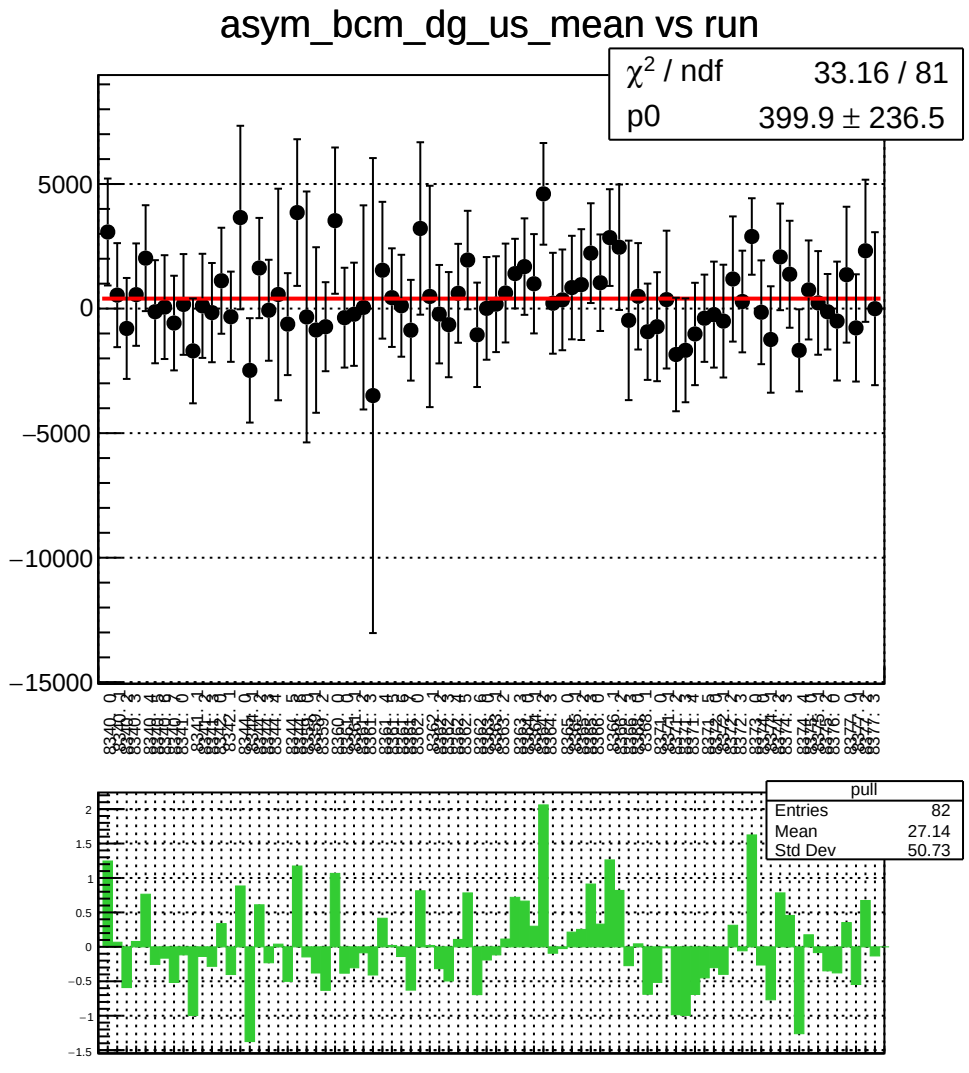

asym_bcm_an_ds3_mean vs run
χ² / ndf 28.53 / 81
p0 517.4 ± 231.7
pull
Entries 82
Mean 75.58
Std Dev 86.78
pull1D
Entries 82
Mean 0.005727
Std Dev 0.5898

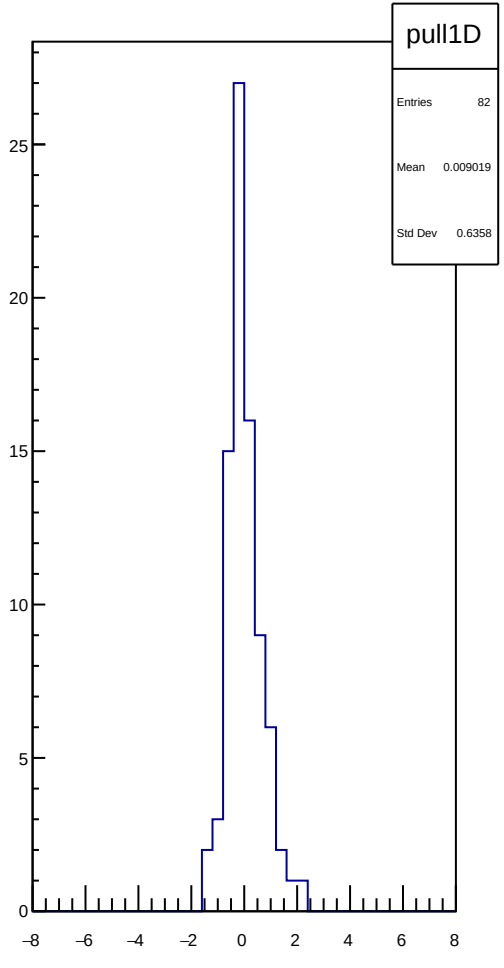

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 6.907e+04 / 81
p0 204.9 ± 0.1638
900
800
700
600
500
400
300
200

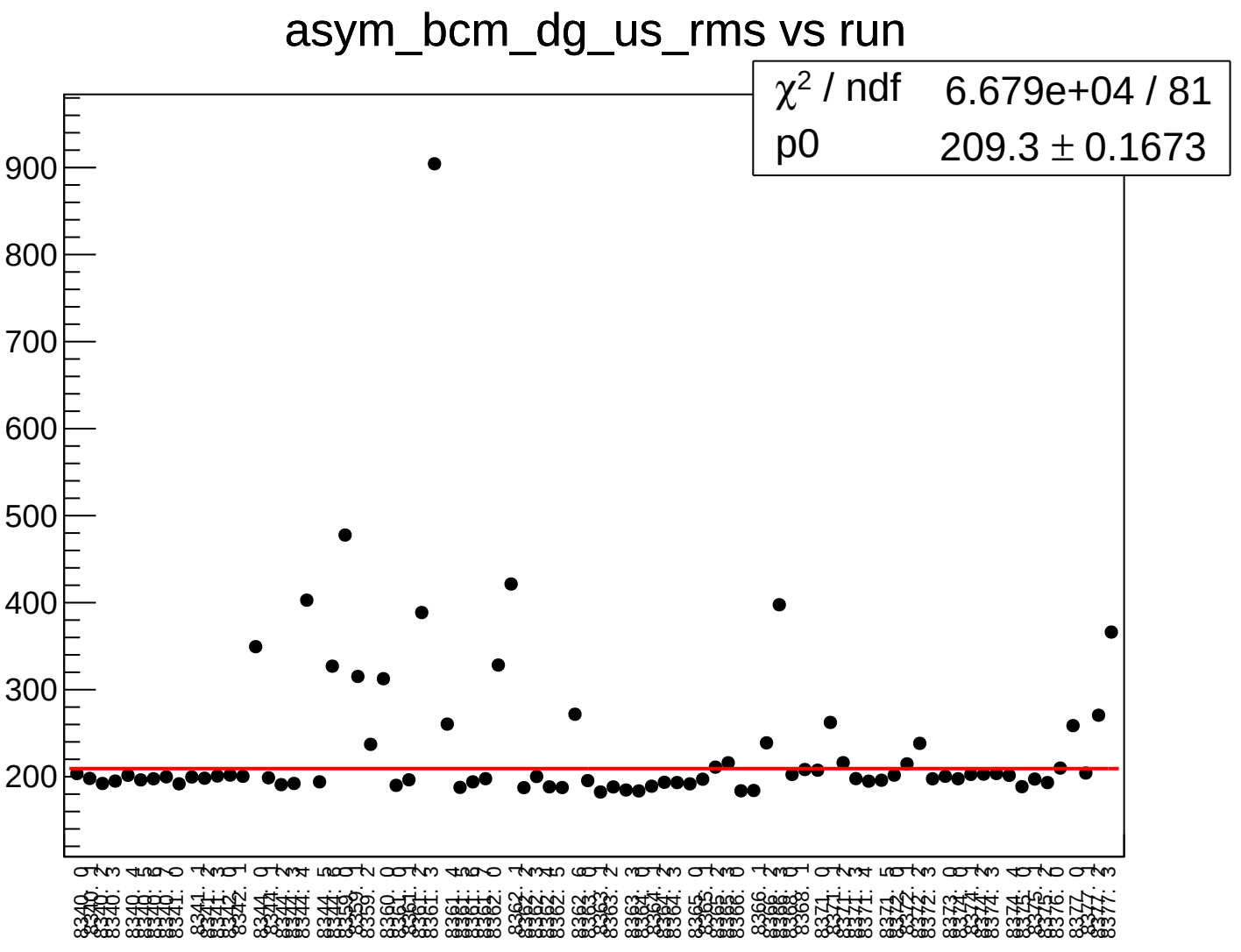

asym_bcm_an_us_mean vs run
χ² / ndf 27.05 / 81
p0 484.7 ± 232.5
pull
Entries 82
Mean 62.68
Std Dev 60.72

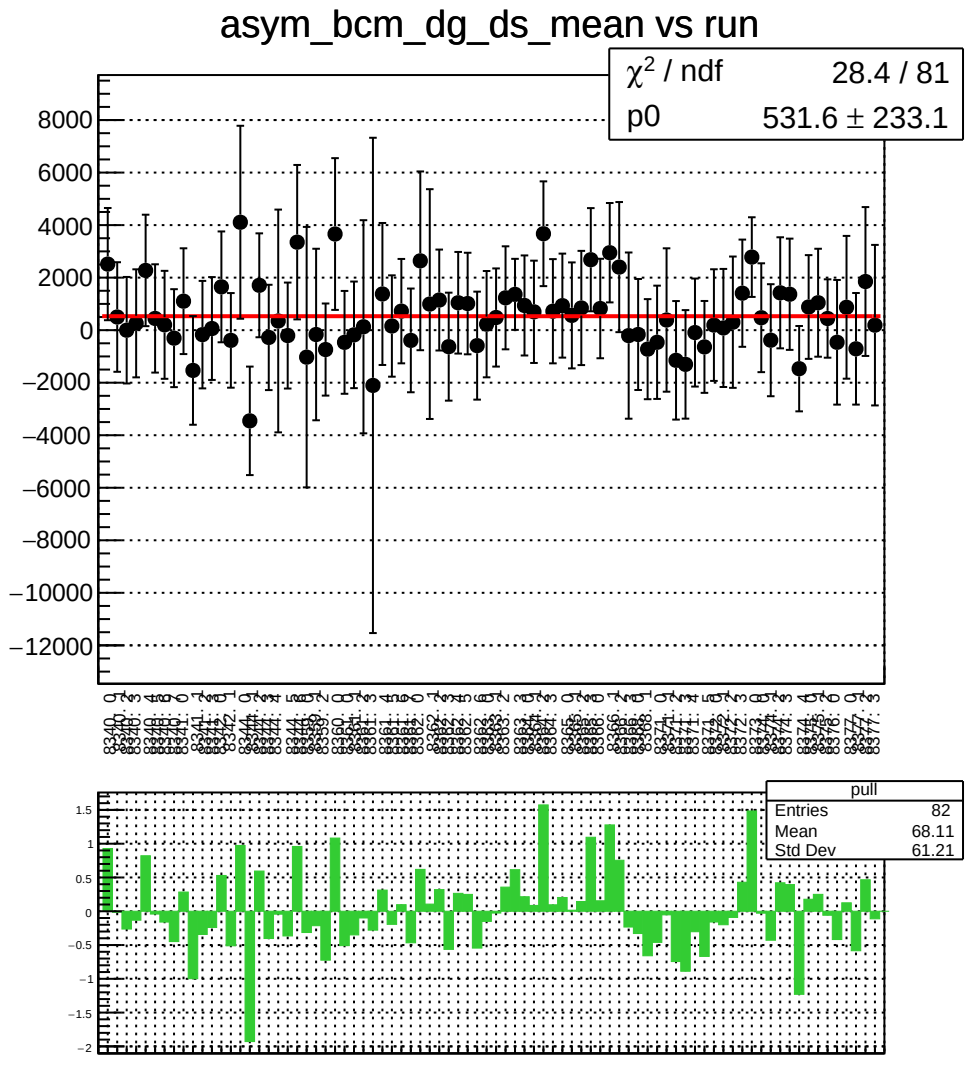

pull1D
Entries 82
Mean 0.009282
Std Dev 0.5743

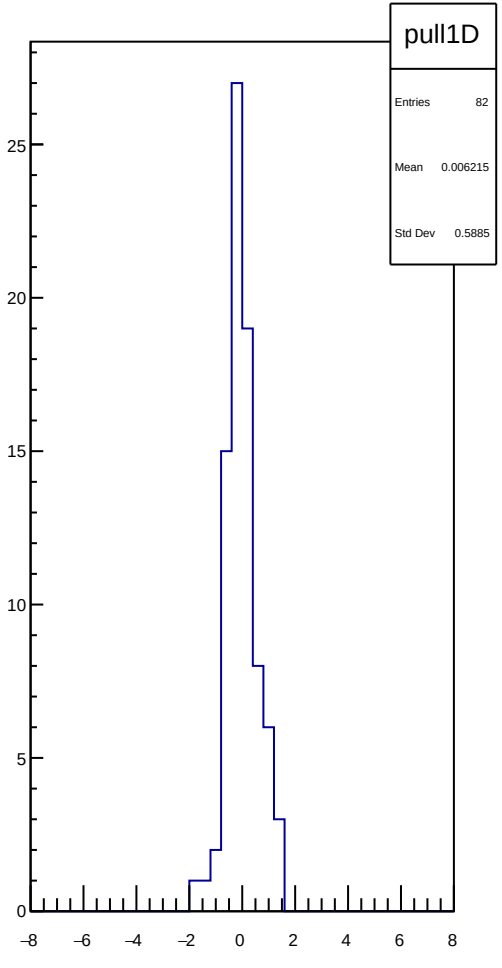

asym_bcm_an_us_rms vs run
χ² / ndf 6.888e+04 / 81
p0 205.7 ± 0.1644
900
800
700
600
500
400
300
200

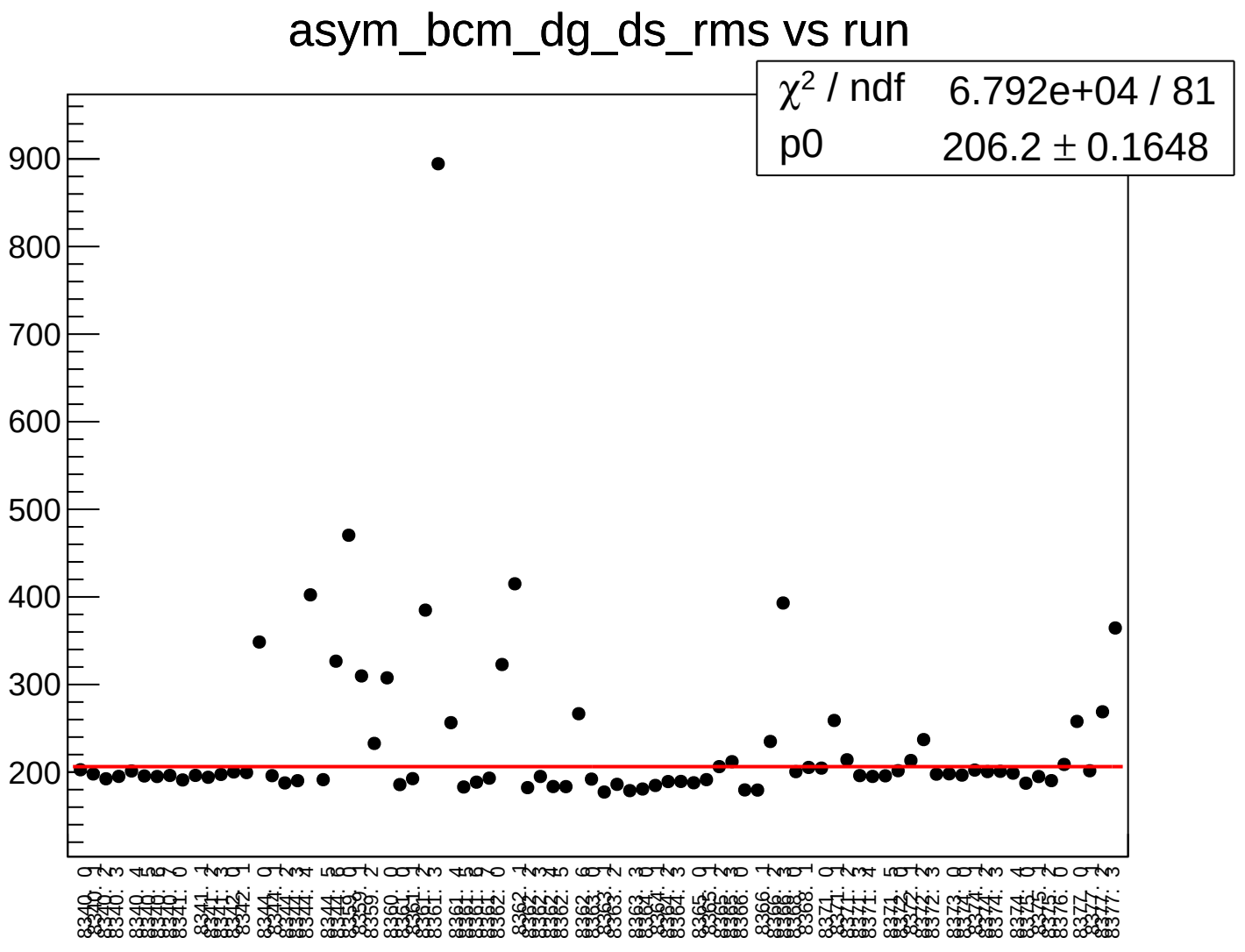

asym_bcm_dg_us_mean vs run
χ² / ndf 33.16 / 81
p0 399.9 ± 236.5
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 27.14
Std Dev 50.73
2
1.5
1
0.5
0
−0.5
−1
−1.5

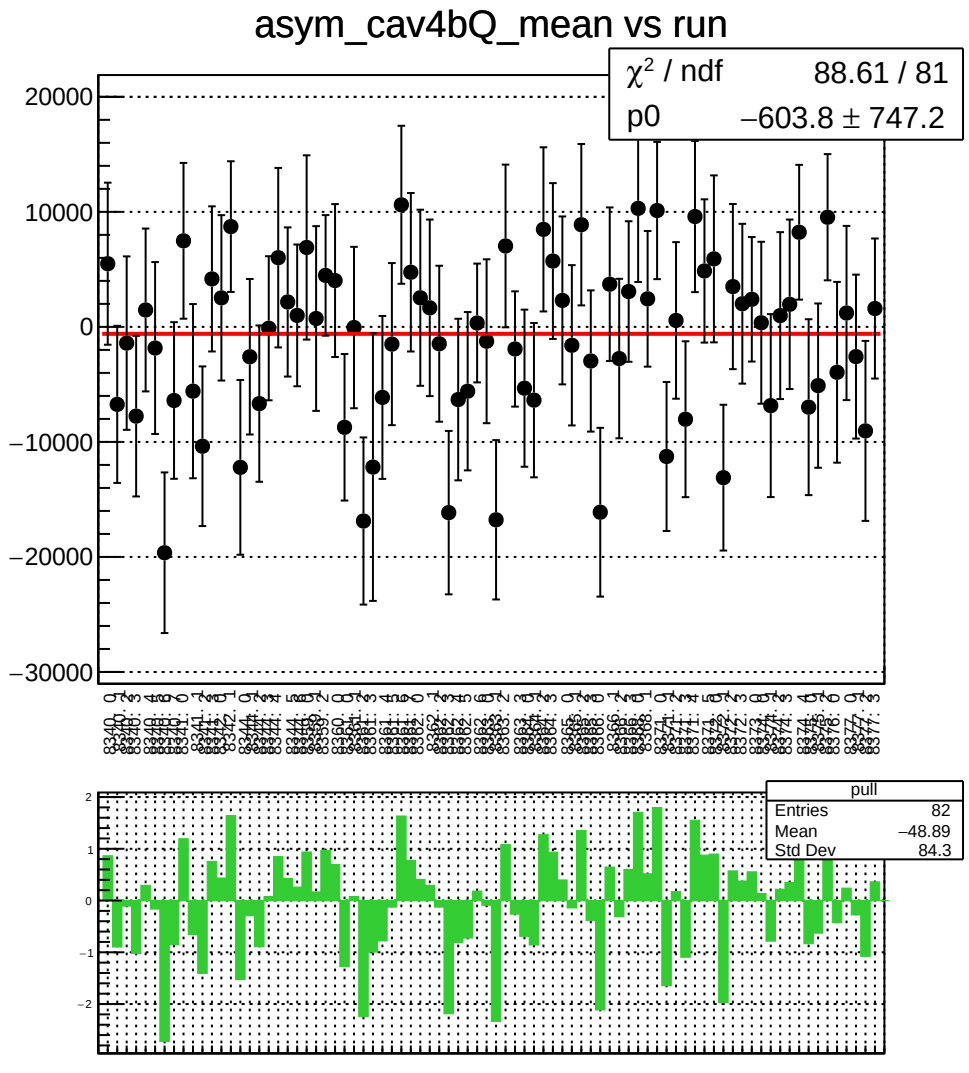

pull1D
Entries 82
Mean 0.009019
Std Dev 0.6358
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

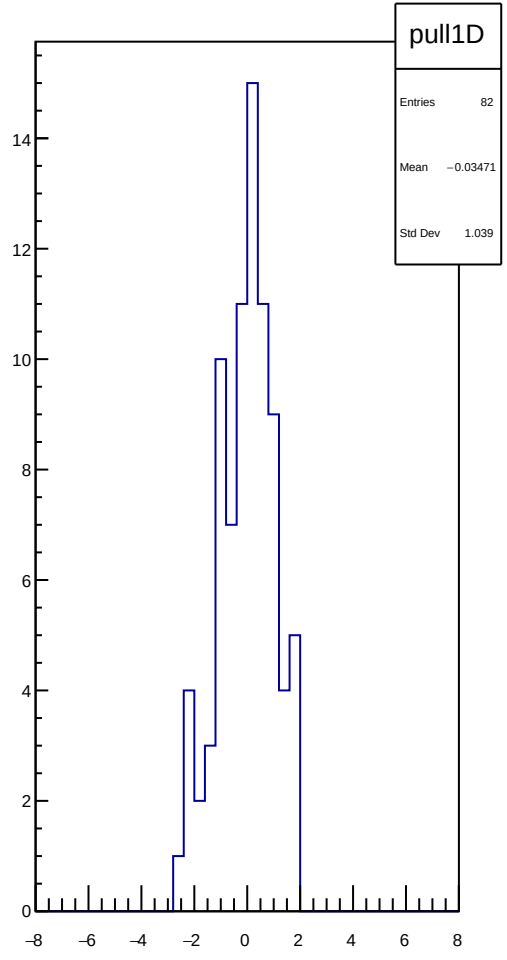

asym_bcm_dg_us_rms vs run
χ² / ndf 6.679e+04 / 81
p0 209.3 ± 0.1673
900
800
700
600
500
400
300
200

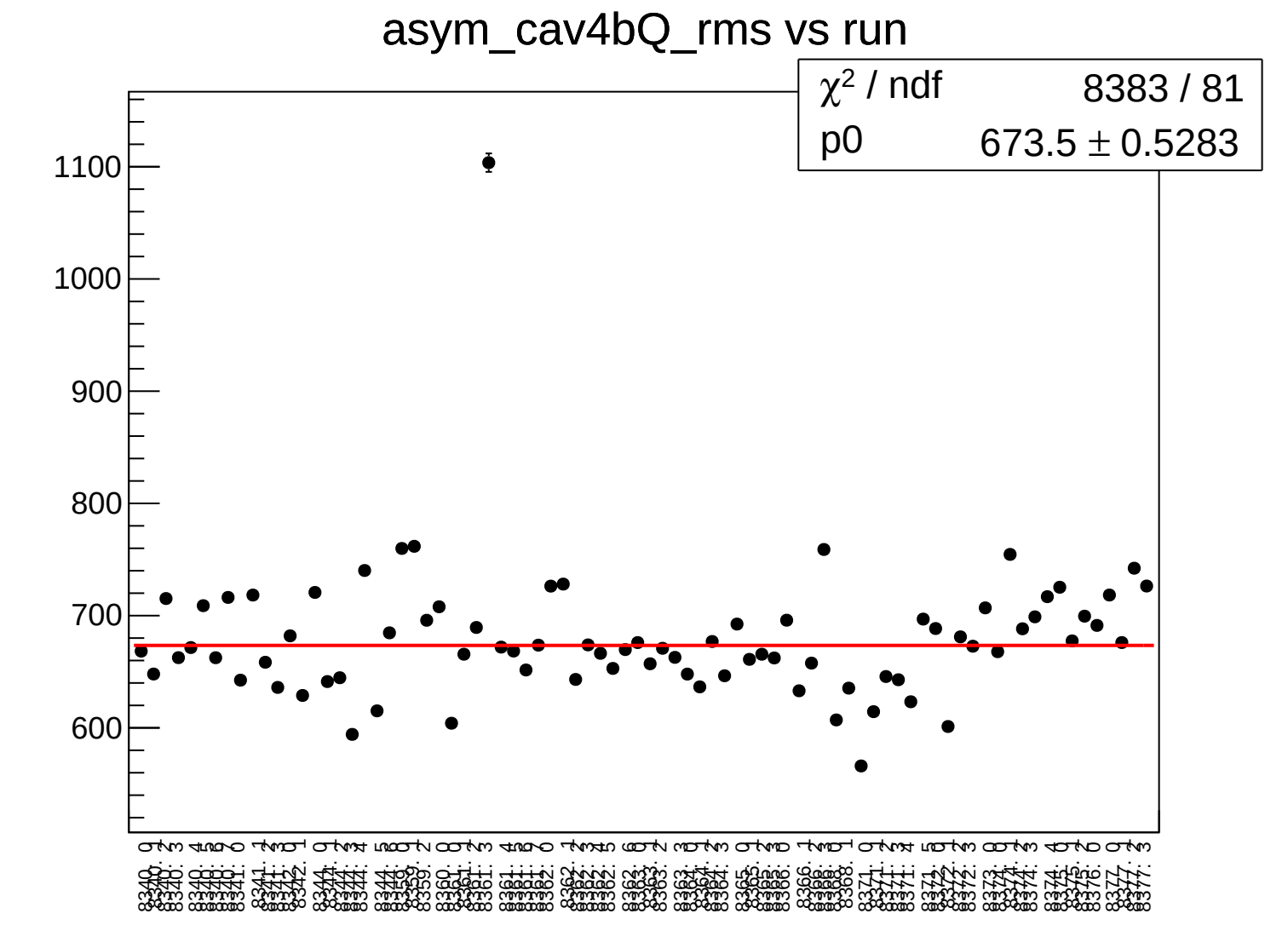

asym_bcm_dg_ds_mean vs run
χ² / ndf 28.4 / 81
p0 531.6 ± 233.1
pull
Entries 82
Mean 68.11
Std Dev 61.21

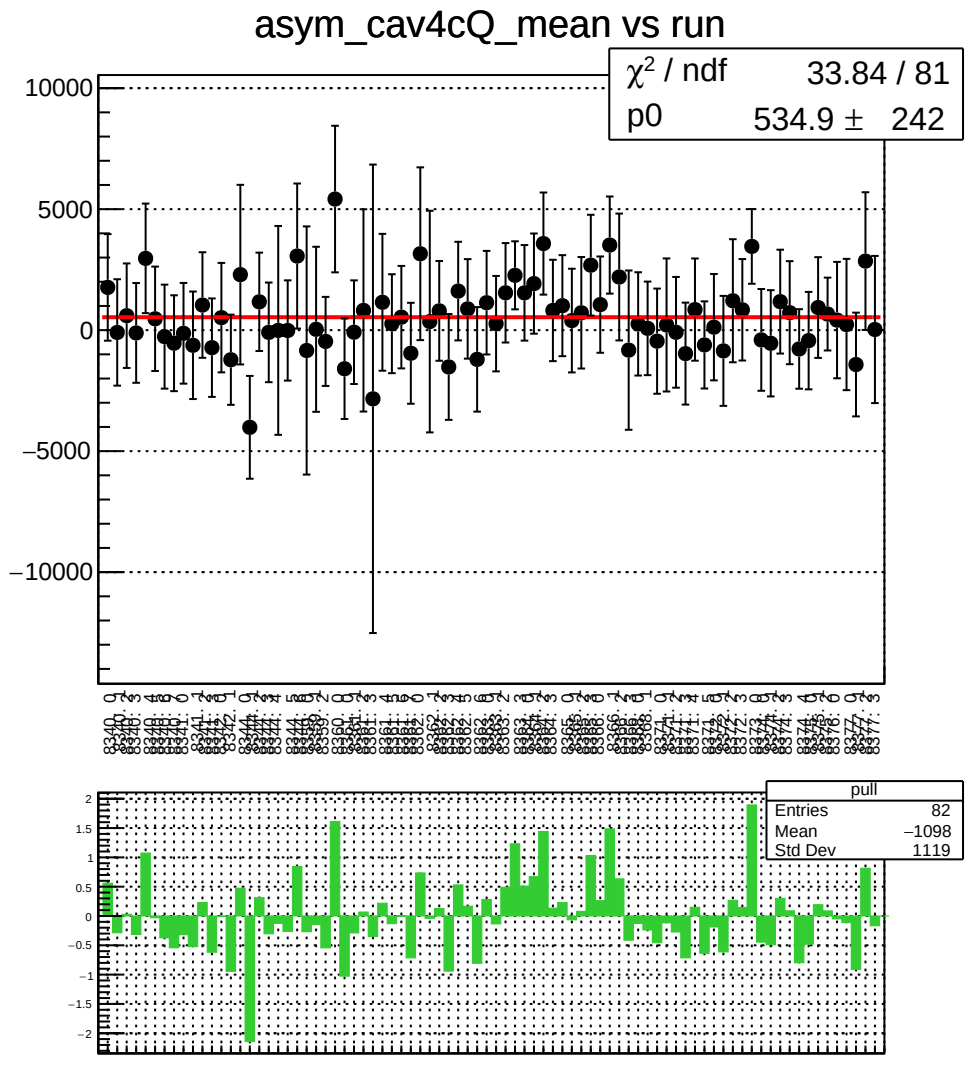

pull1D
Entries 82
Mean 0.006215
Std Dev 0.5885

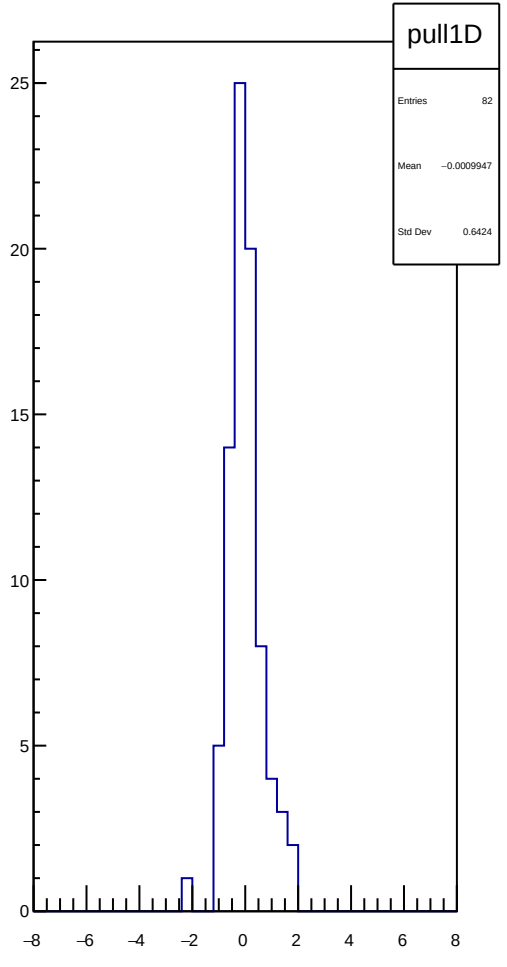

asym_bcm_dg_ds_rms vs run
χ² / ndf 6.792e+04 / 81
p0 206.2 ± 0.1648
900
800
700
600
500
400
300
200

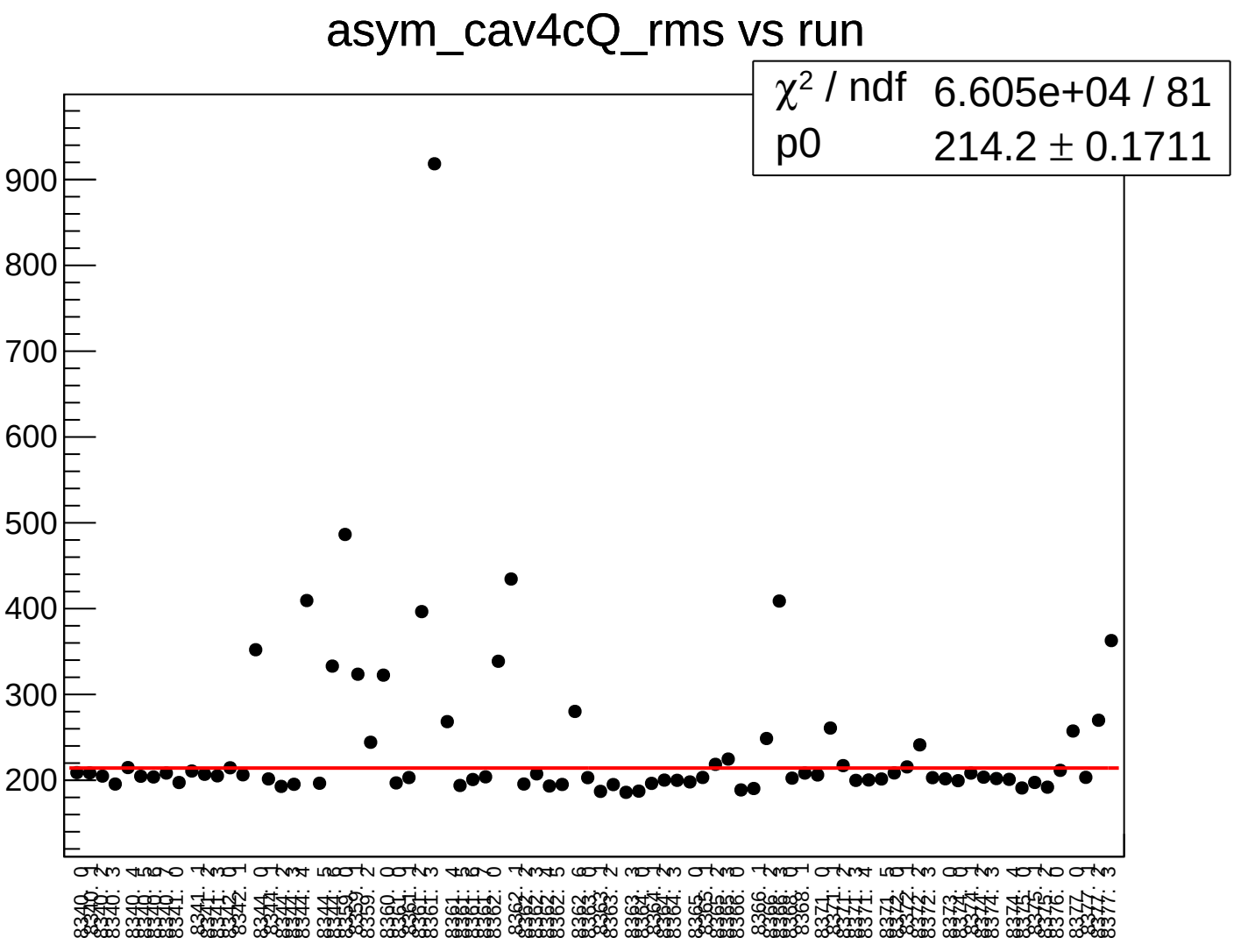

asym_cav4bQ_mean vs run
χ² / ndf 88.61 / 81
p0 −603.8 ± 747.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −48.89
Std Dev 84.3
2
1
0
−1
−2

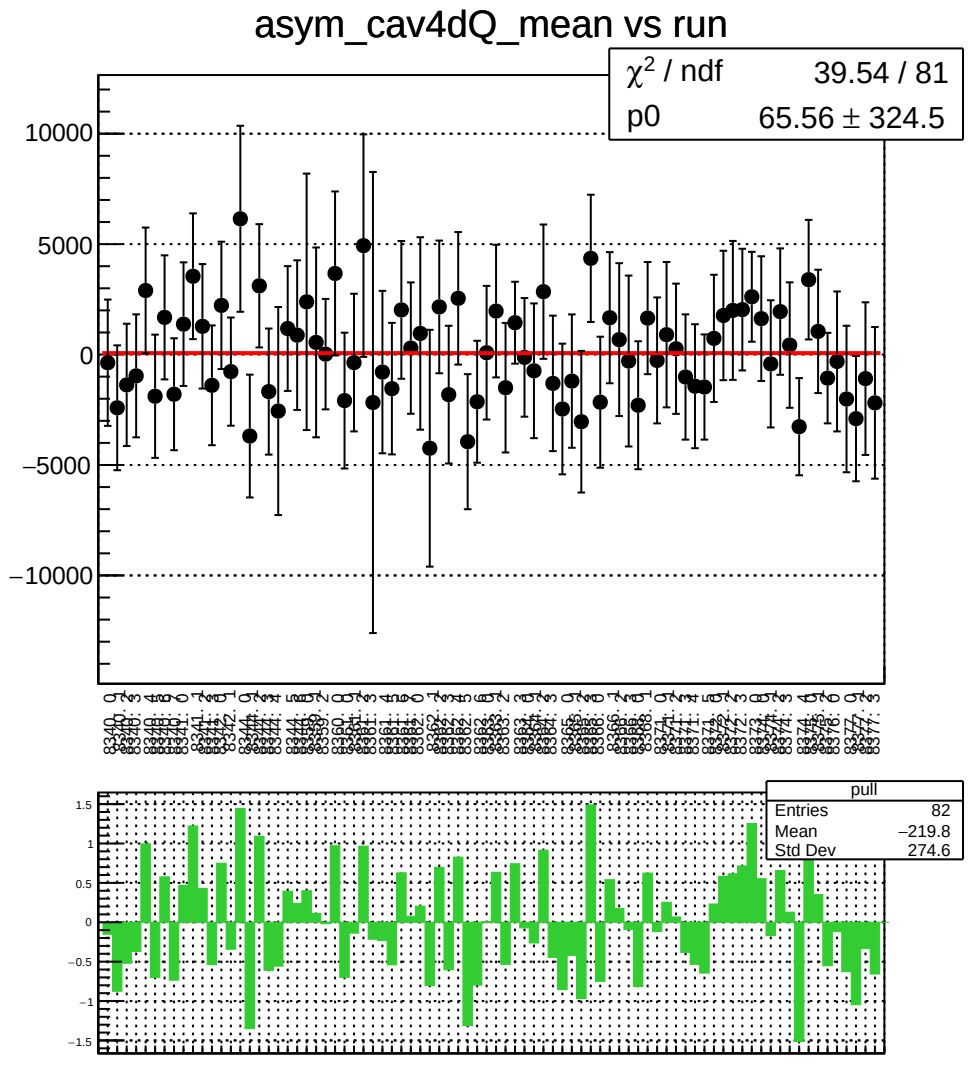

pull1D
Entries 82
Mean −0.03471
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

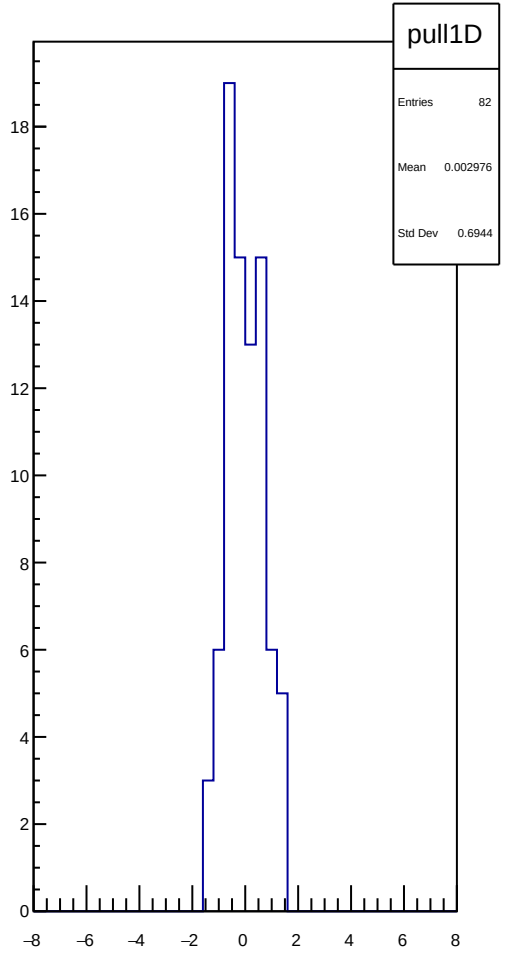

asym_cav4bQ_rms vs run
χ² / ndf 8383 / 81
p0 673.5 ± 0.5283
1100
1000
900
800
700
600

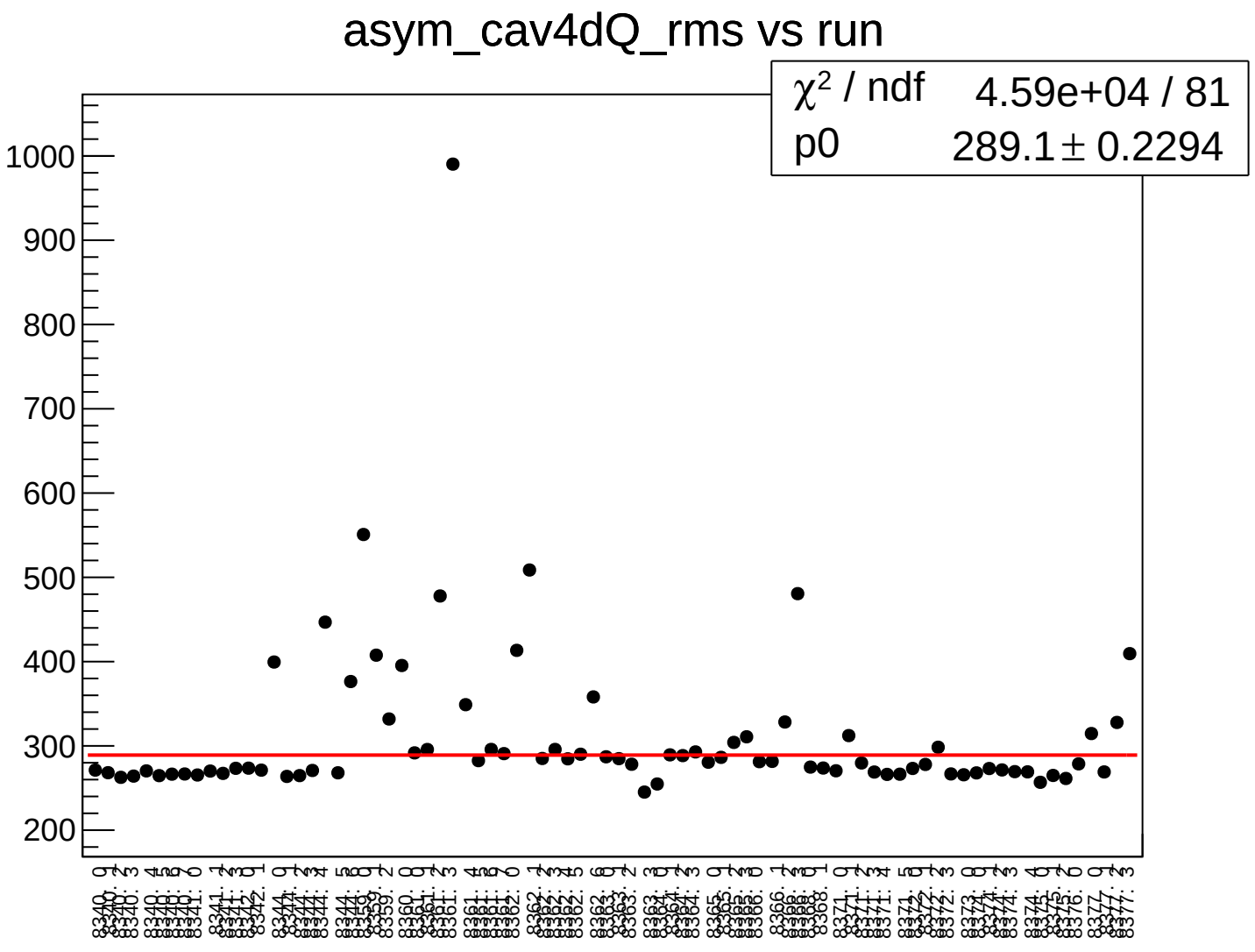

asym_cav4cQ_mean vs run
χ² / ndf 33.84 / 81
p0 534.9 ± 242
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −1098
Std Dev 1119
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

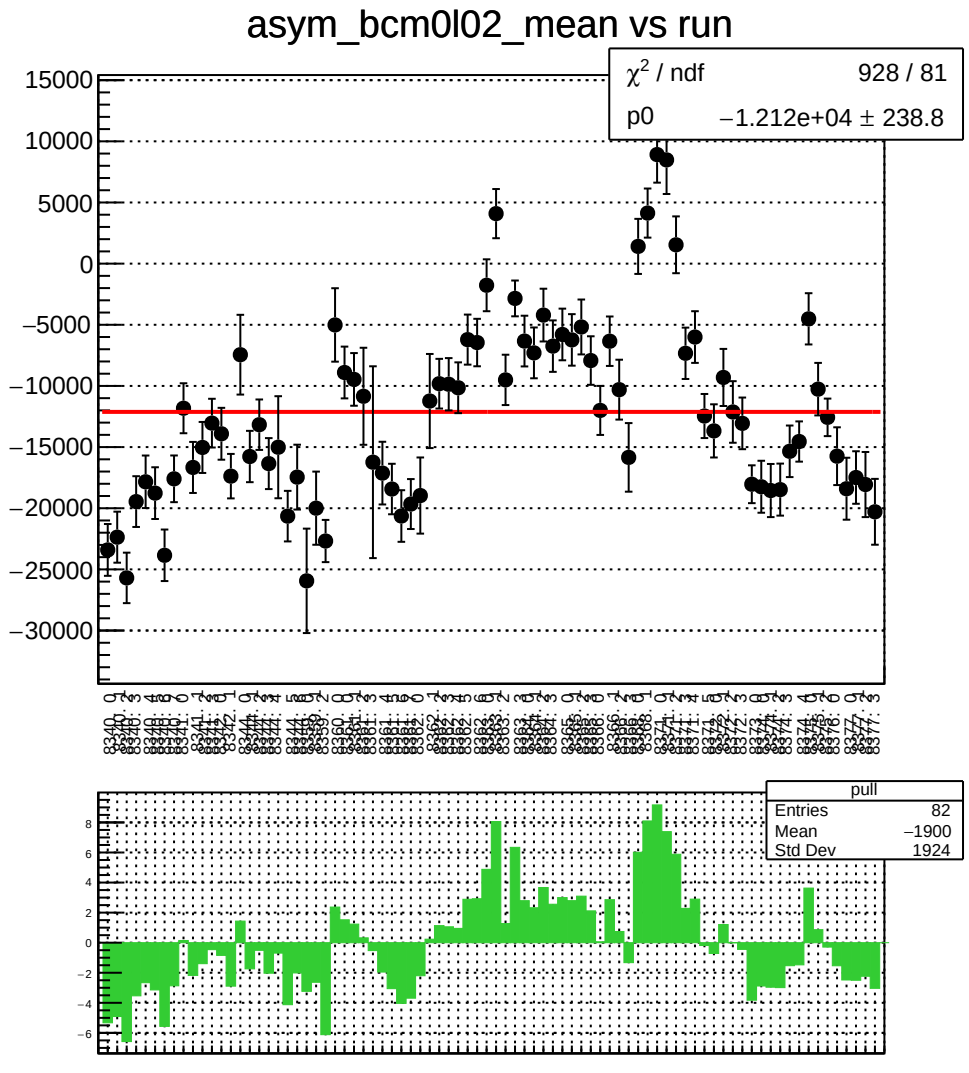

pull1D
Entries 82
Mean −0.0009947
Std Dev 0.6424
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

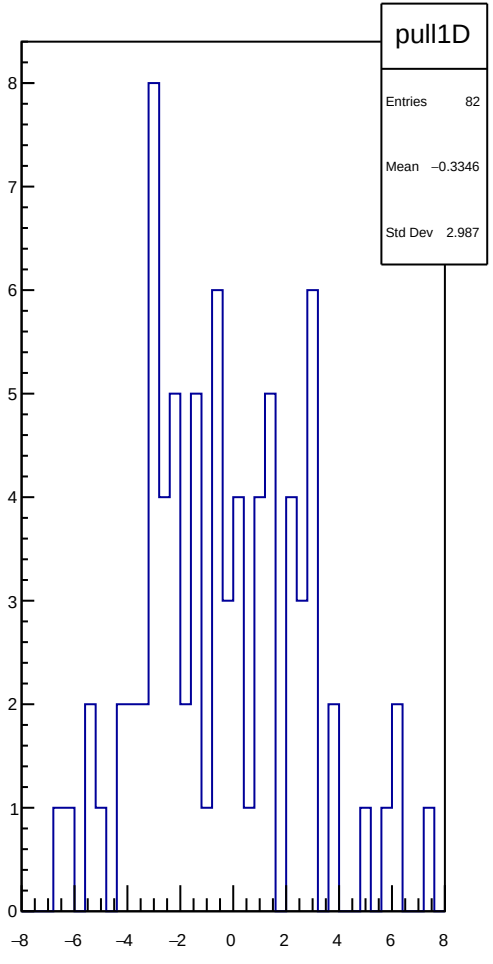

asym_cav4cQ_rms vs run
χ² / ndf 6.605e+04 / 81
p0 214.2 ± 0.1711
900
800
700
600
500
400
300
200

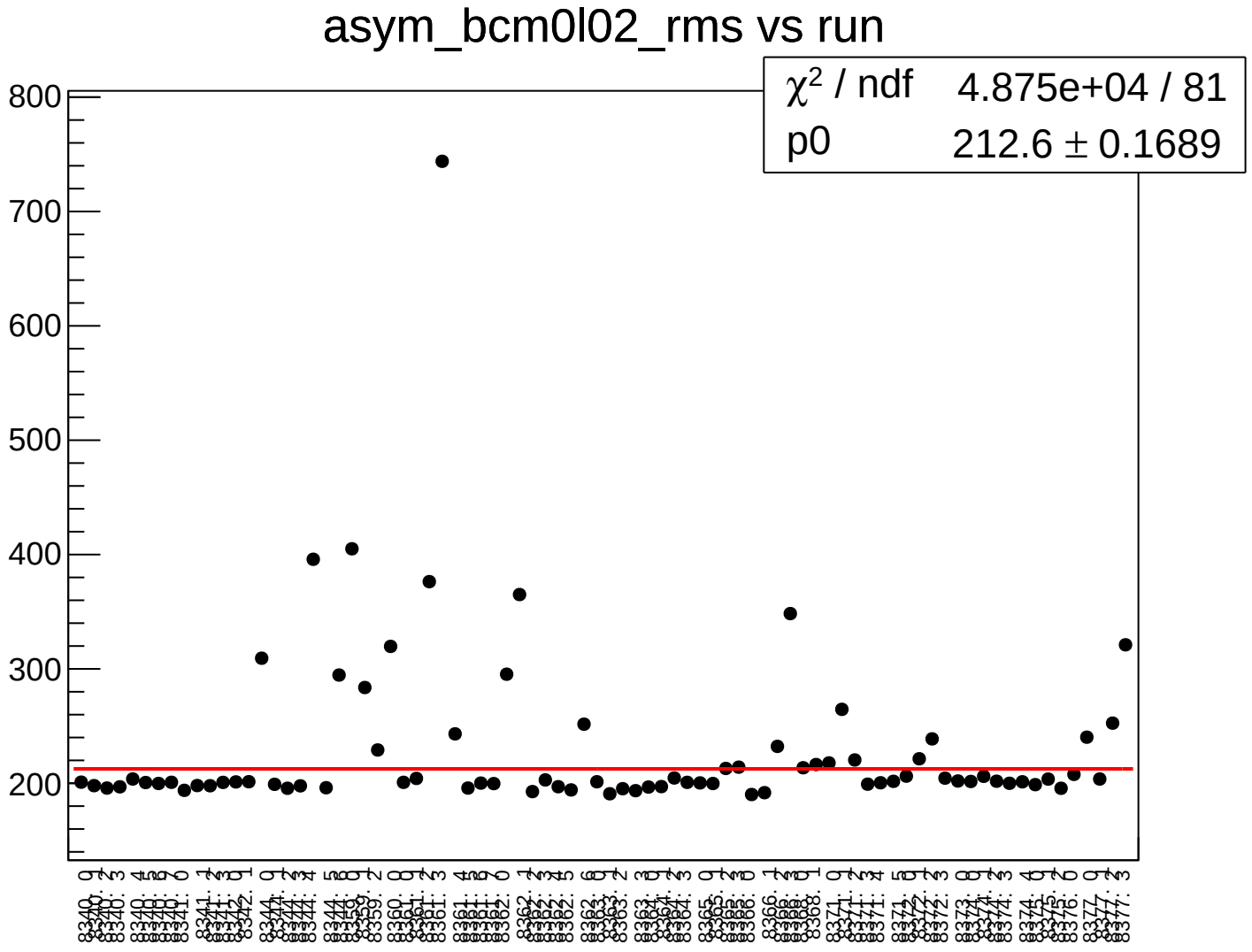

asym_cav4dQ_mean vs run
χ² / ndf 39.54 / 81
p0 65.56 ± 324.5
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −219.8
Std Dev 274.6
1.5
1
0.5
0
−0.5
−1
−1.5

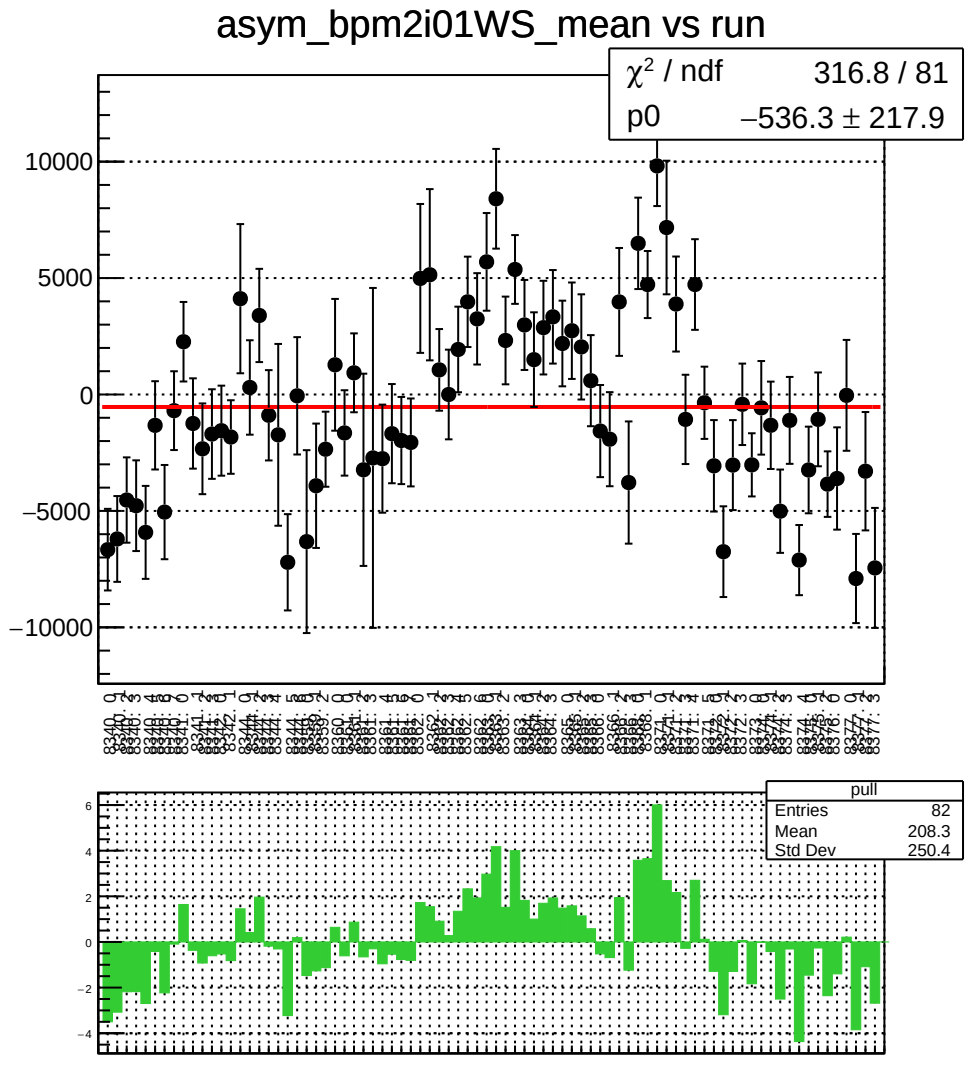

pull1D
Entries 82
Mean 0.002976
Std Dev 0.6944
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

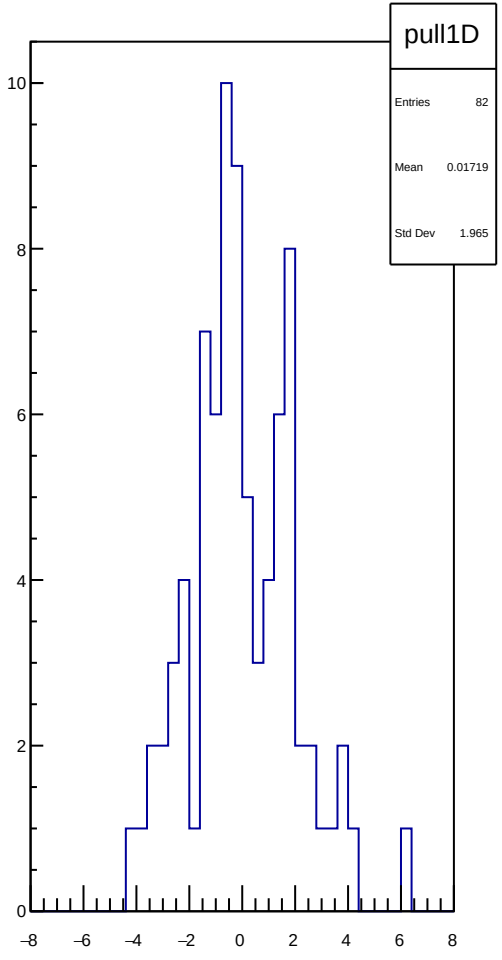

asym_cav4dQ_rms vs run
χ² / ndf 4.59e+04 / 81
p0 289.1 ± 0.2294
1000
900
800
700
600
500
400
300
200

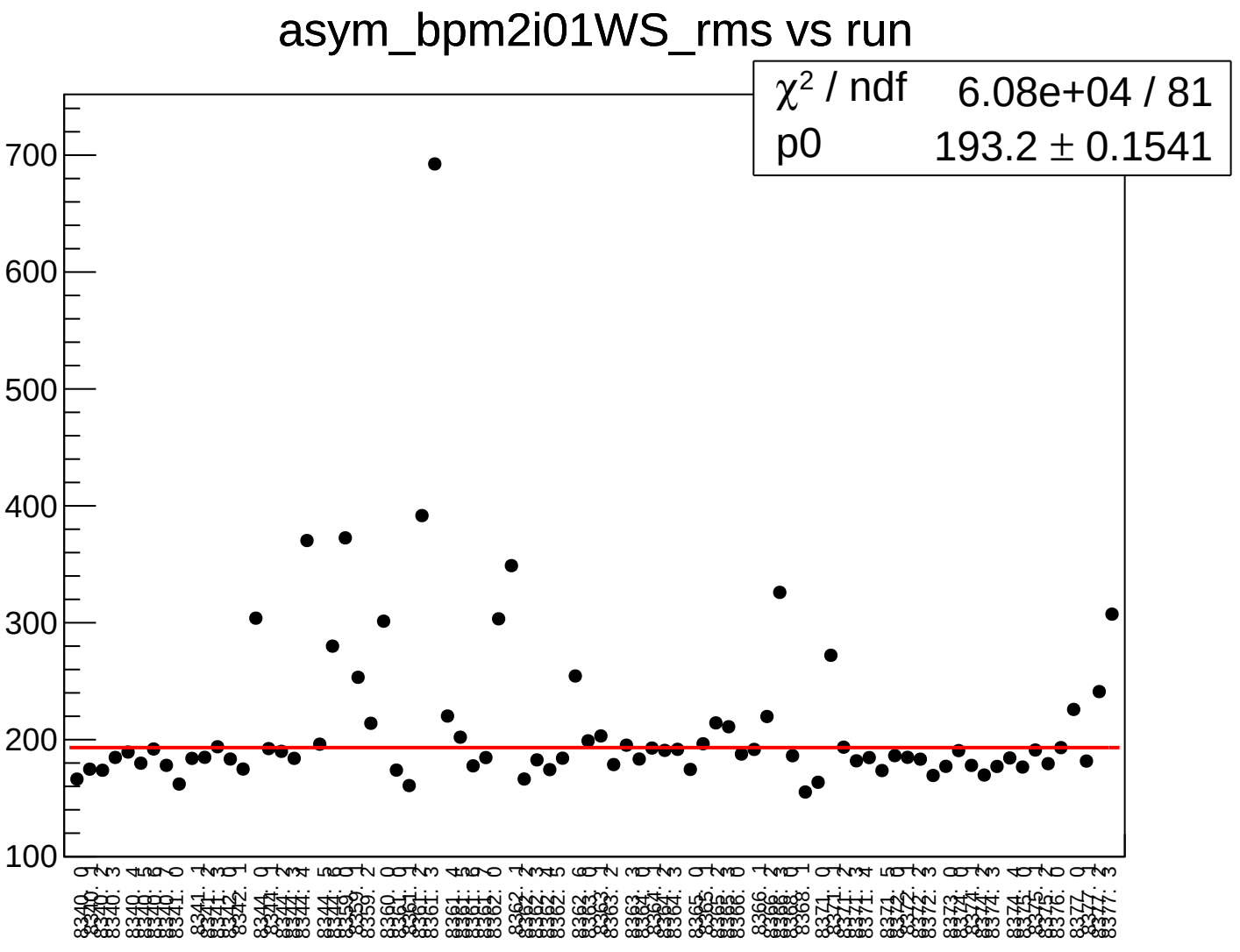

asym_bcm0l02_mean vs run
χ² / ndf 928 / 81
p0 −1.212e+04 ± 238.8
pull
Entries 82
Mean −1900
Std Dev 1924

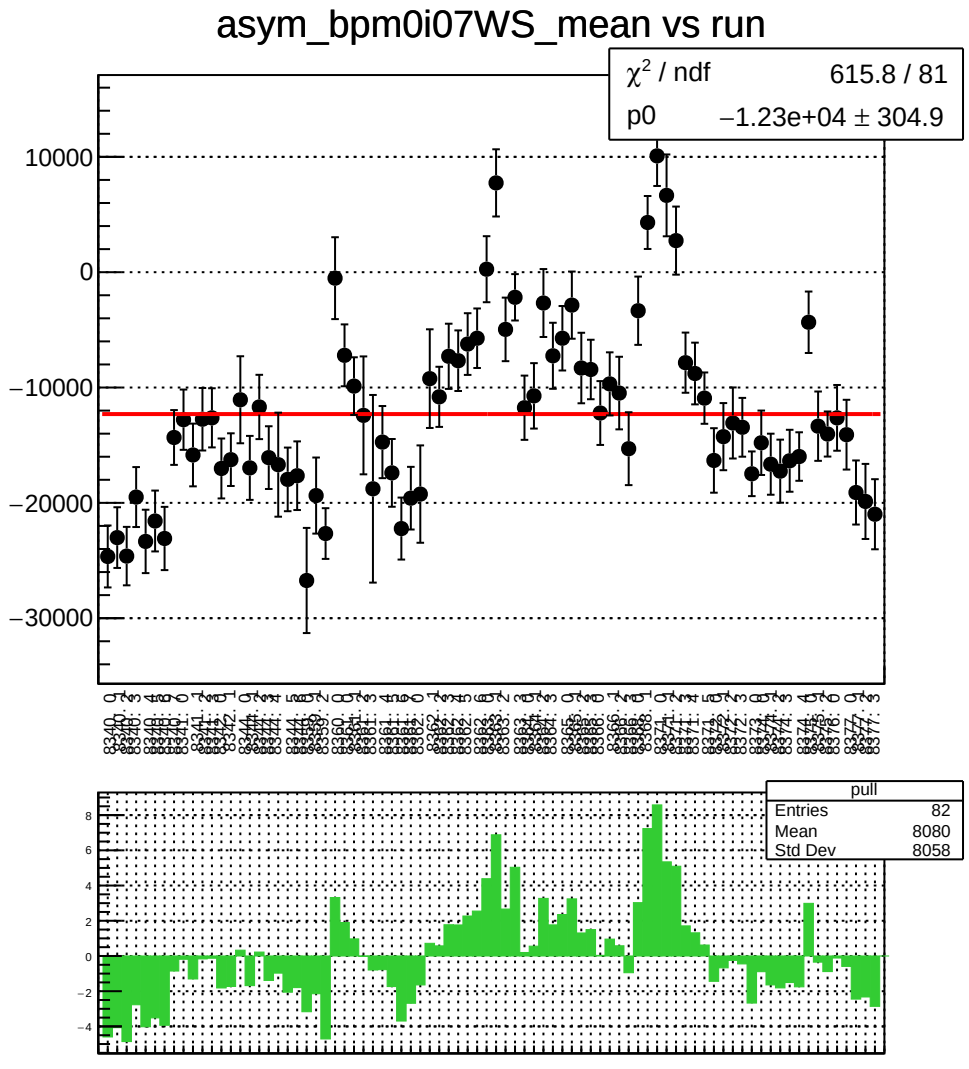

pull1D
Entries 82
Mean −0.3346
Std Dev 2.987

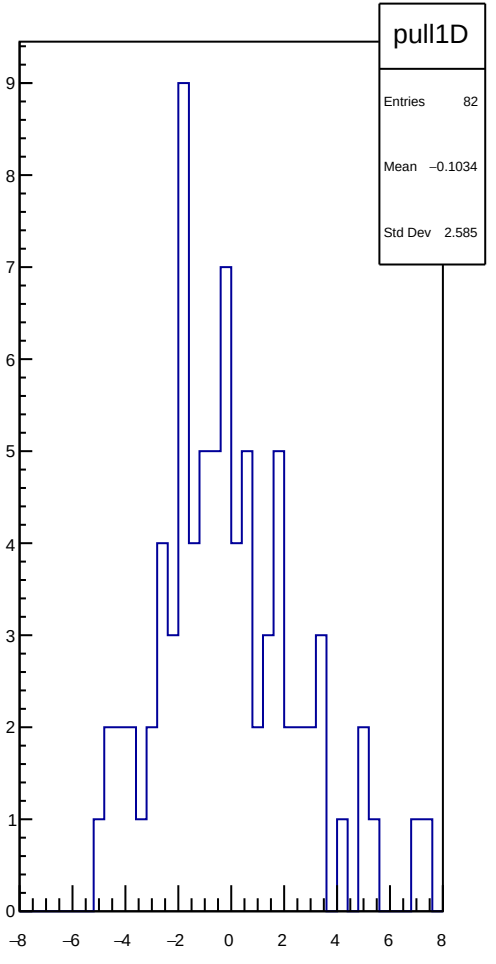

asym_bcm0l02_rms vs run
χ² / ndf 4.875e+04 / 81
p0 212.6 ± 0.1689
800
700
600
500
400
300
200

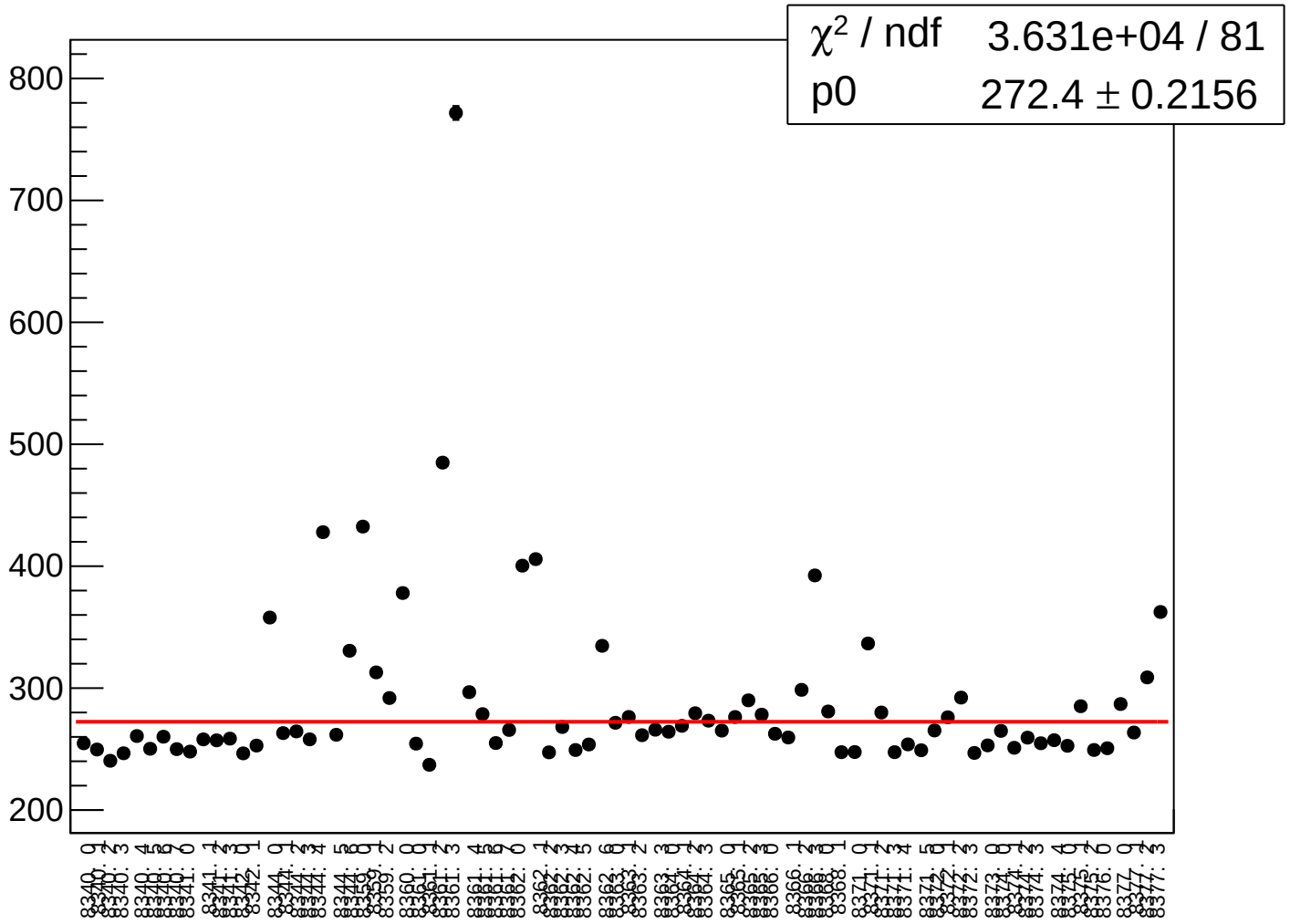

asym_bpm2i01WS_mean vs run
χ² / ndf 316.8 / 81
p0 −536.3 ± 217.9
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 208.3
Std Dev 250.4
6
4
2
0
−2
−4

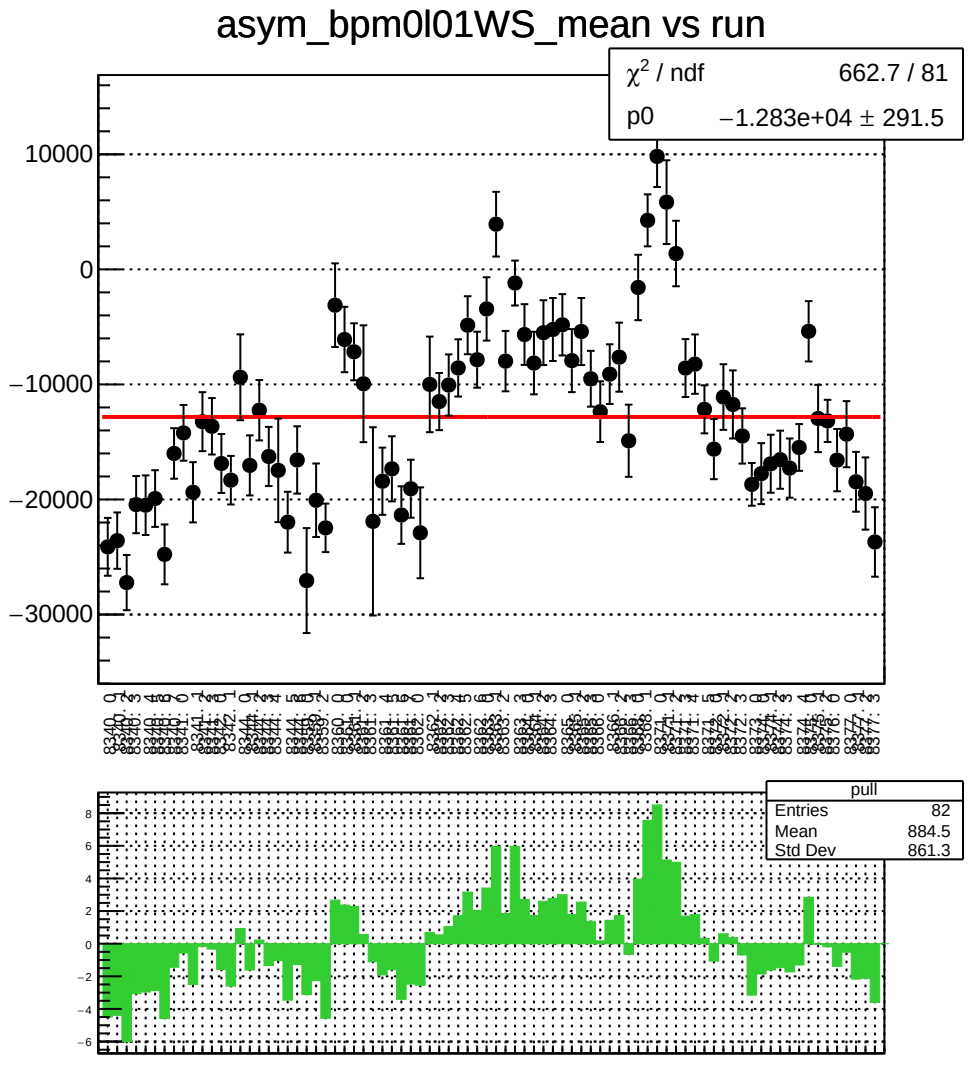

pull1D
Entries 82
Mean 0.01719
Std Dev 1.965
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

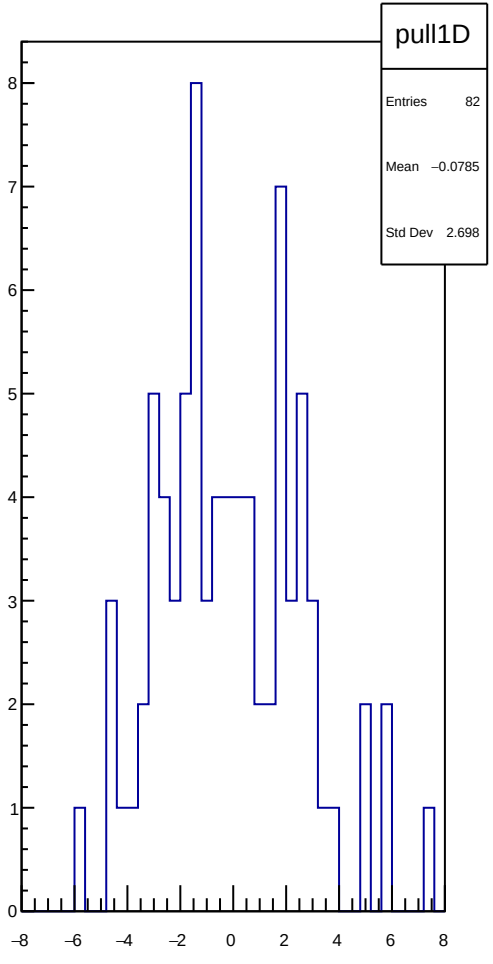

asym_bpm2i01WS_rms vs run
χ² / ndf 6.08e+04 / 81
p0 193.2 ± 0.1541
700
600
500
400
300
200
100

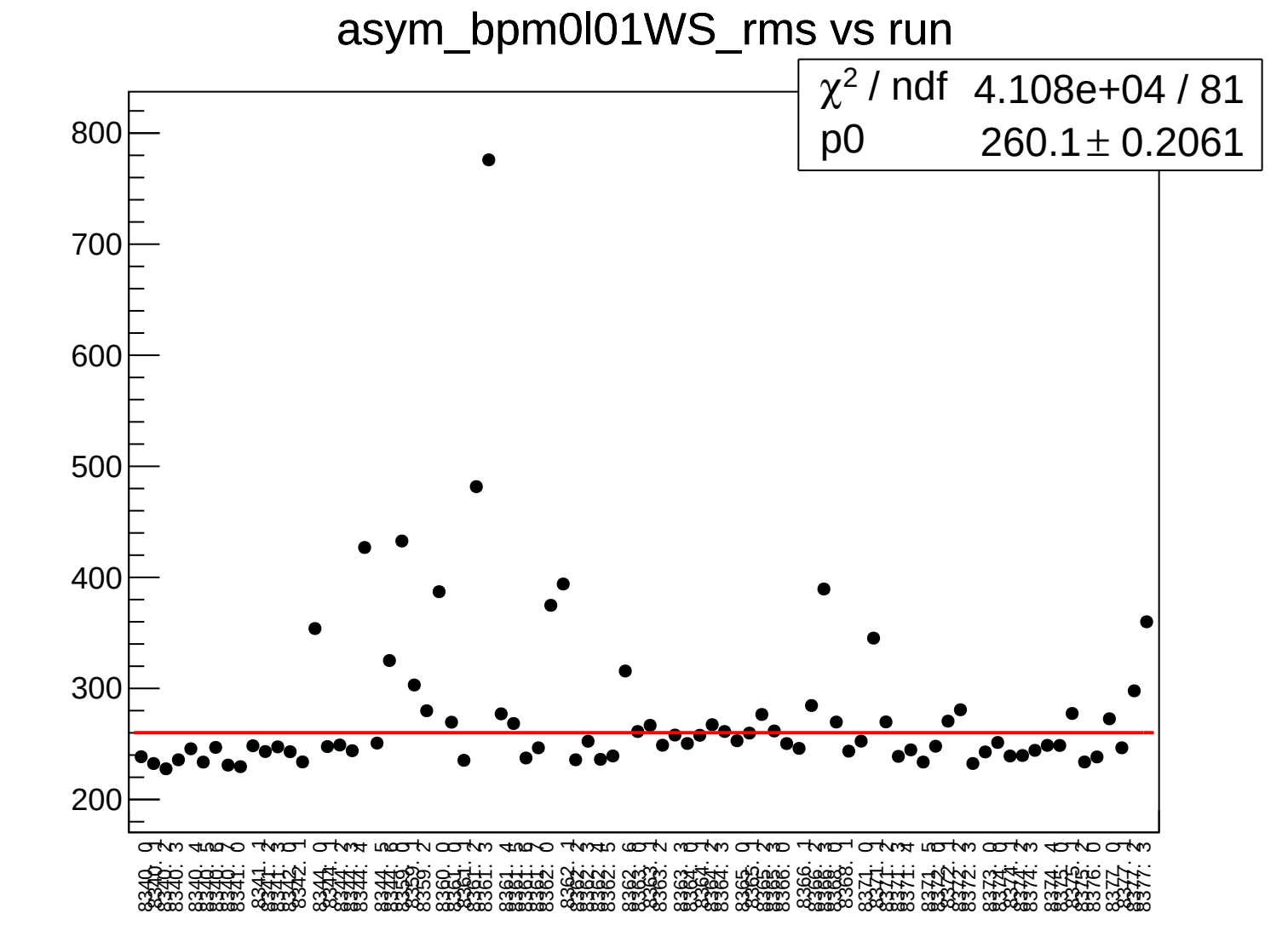

asym_bpm0i07WS_mean vs run
χ² / ndf 615.8 / 81
p0 −1.23e+04 ± 304.9
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 8080
Std Dev 8058
8
6
4
2
0
−2
−4

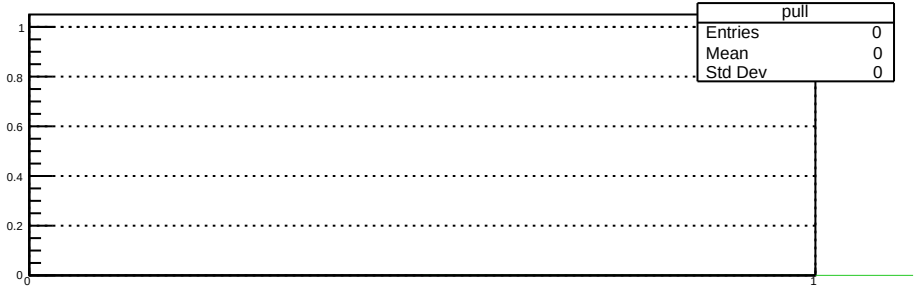

pull1D
Entries 82
Mean −0.1034
Std Dev 2.585
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

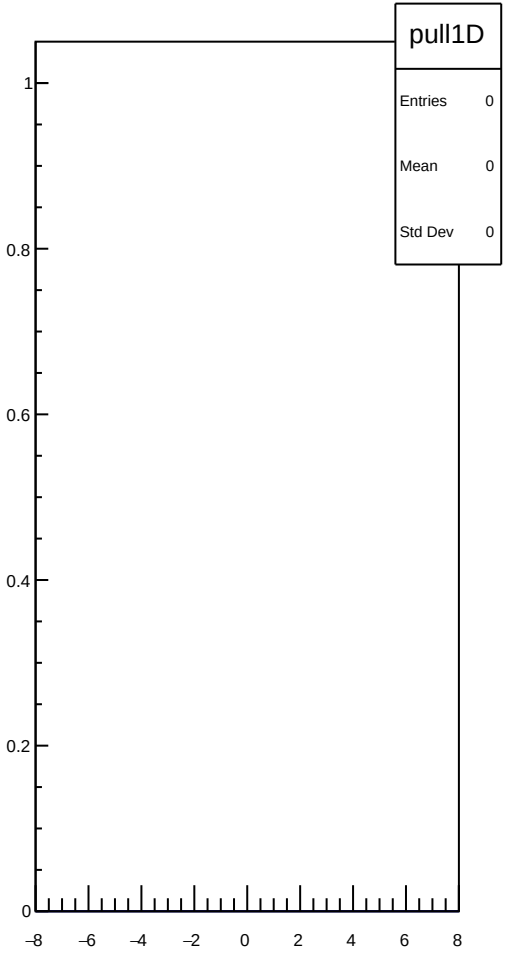

asym_bpm0i07WS_rms vs run
χ² / ndf 3.631e+04 / 81
p0 272.4 ± 0.2156
800
700
600
500
400
300
200

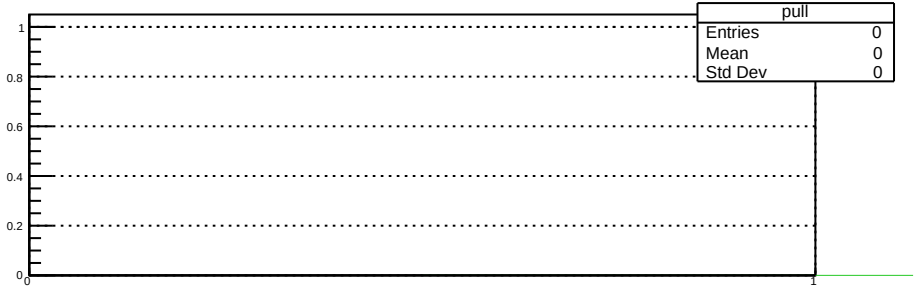

asym_bpm0l01WS_mean vs run
χ² / ndf 662.7 / 81
p0 −1.283e+04 ± 291.5
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 884.5
Std Dev 861.3
8
6
4
2
0
−2
−4
−6

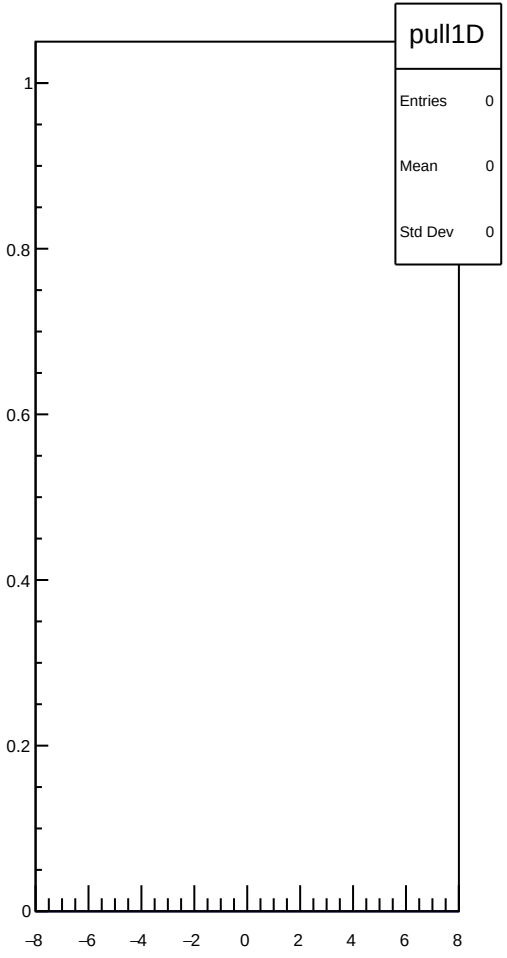

pull1D
Entries 82
Mean −0.0785
Std Dev 2.698
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

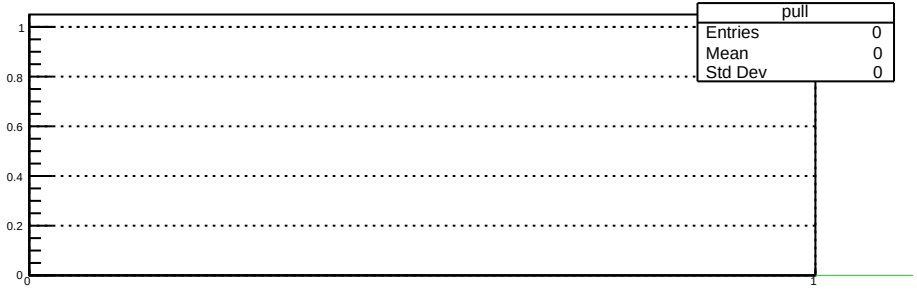

asym_bpm0l01WS_rms vs run
χ² / ndf 4.108e+04 / 81
p0 260.1 ± 0.2061
800
700
600
500
400
300
200

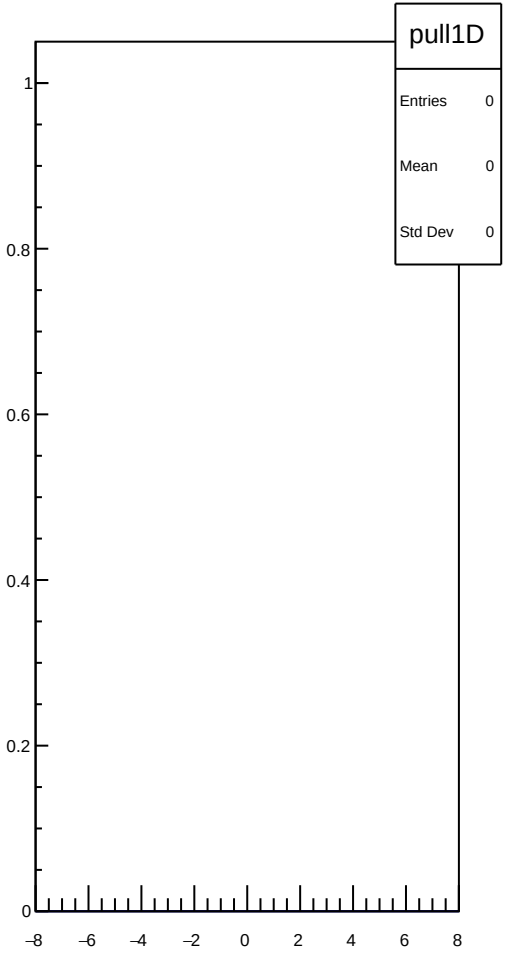

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

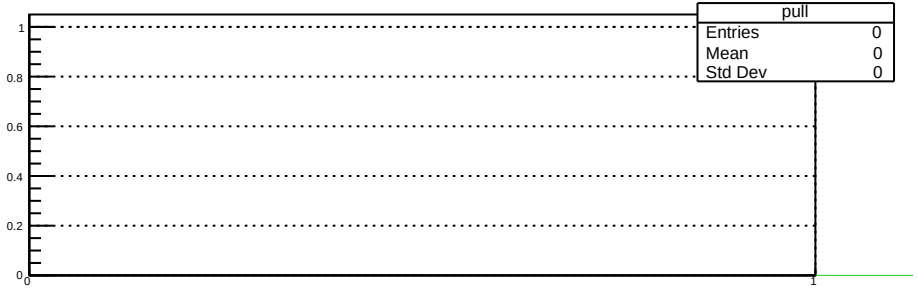

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

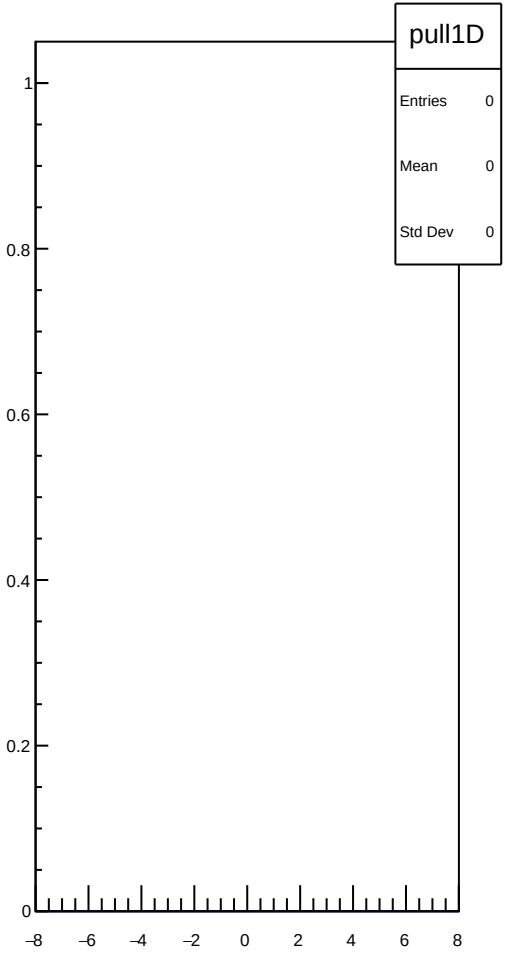

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

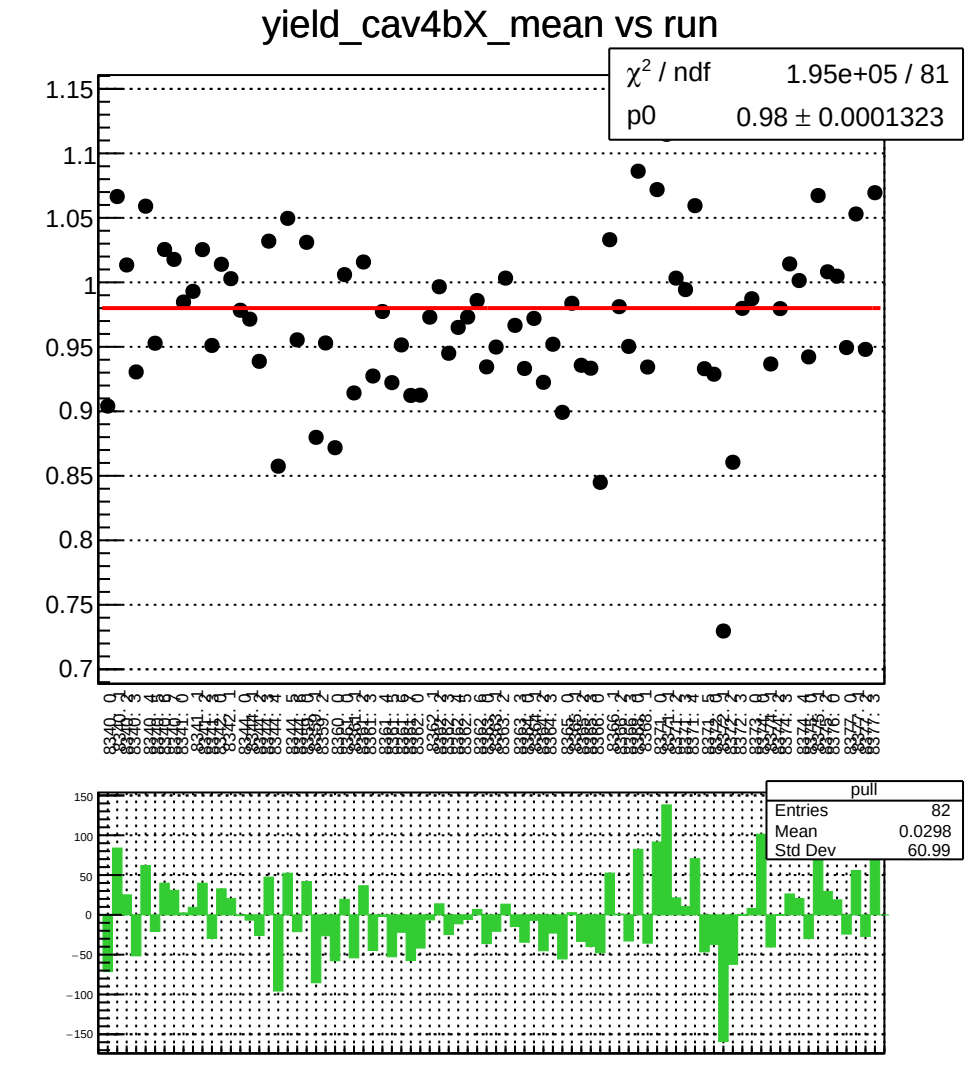

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

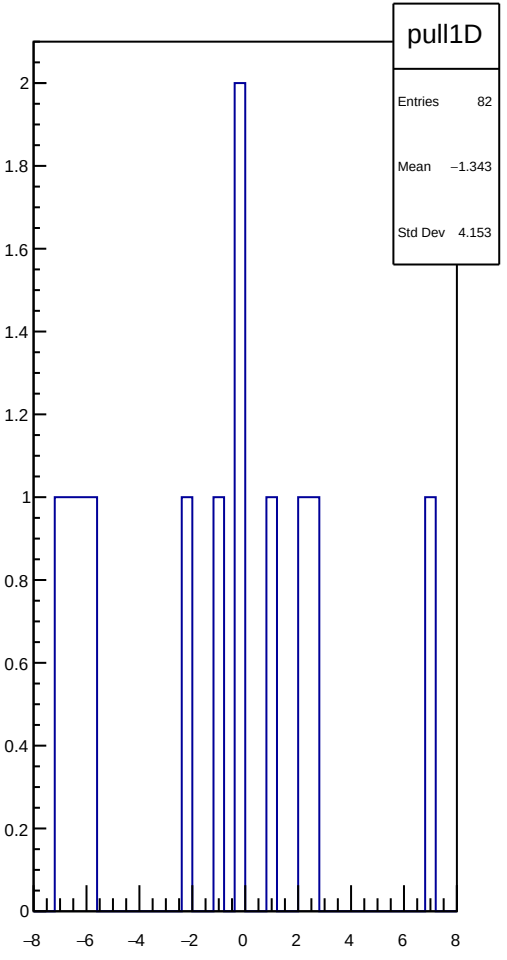

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

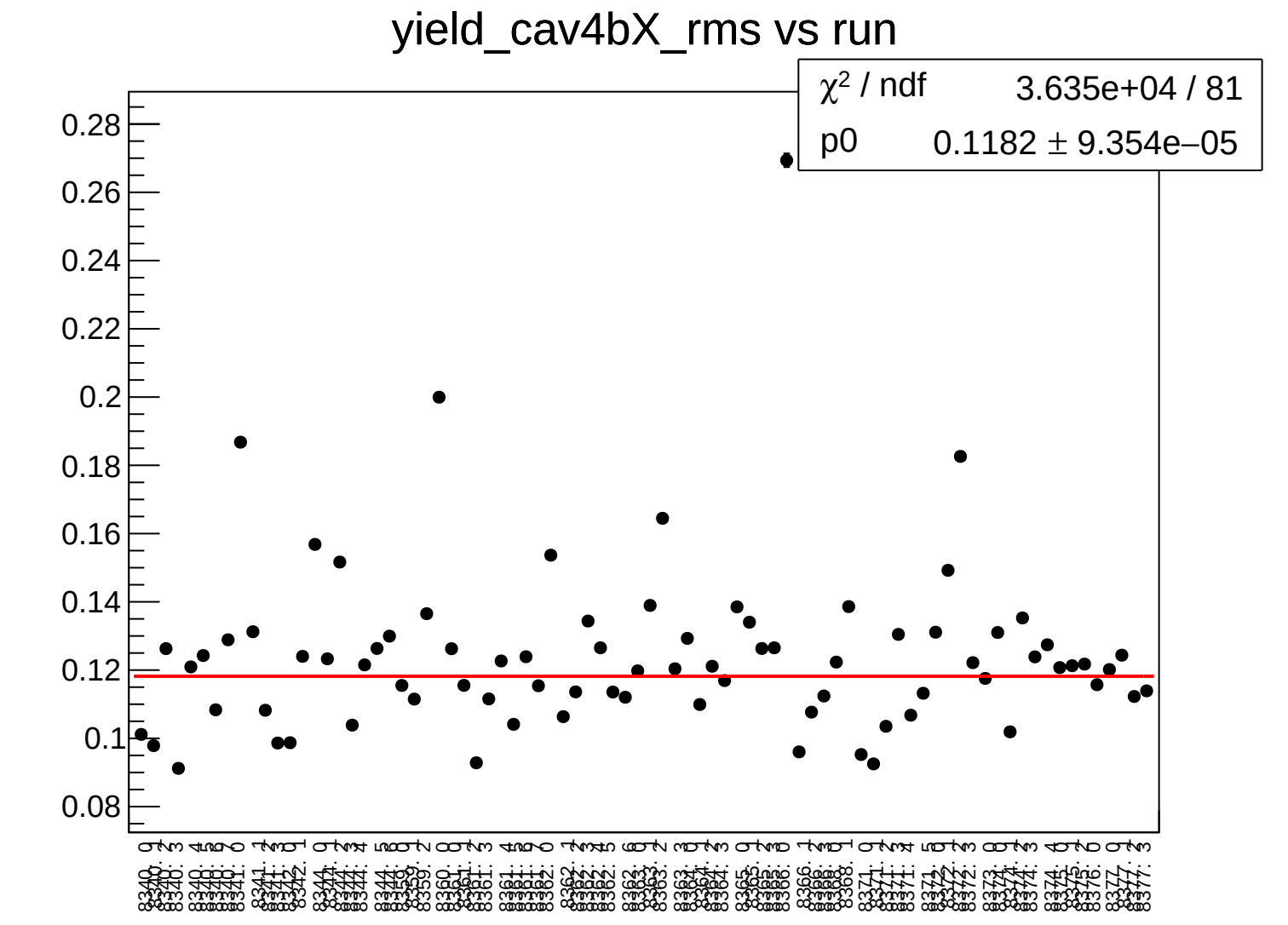

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

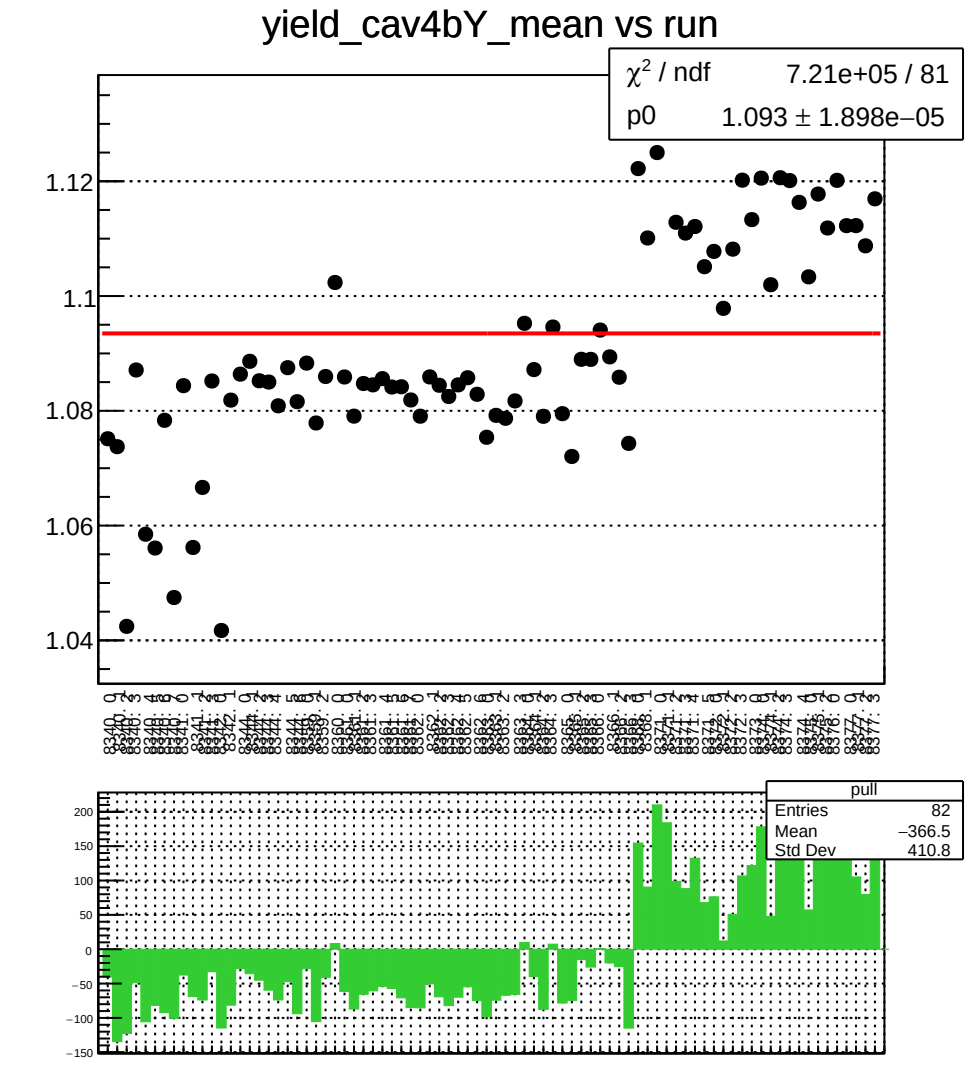

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

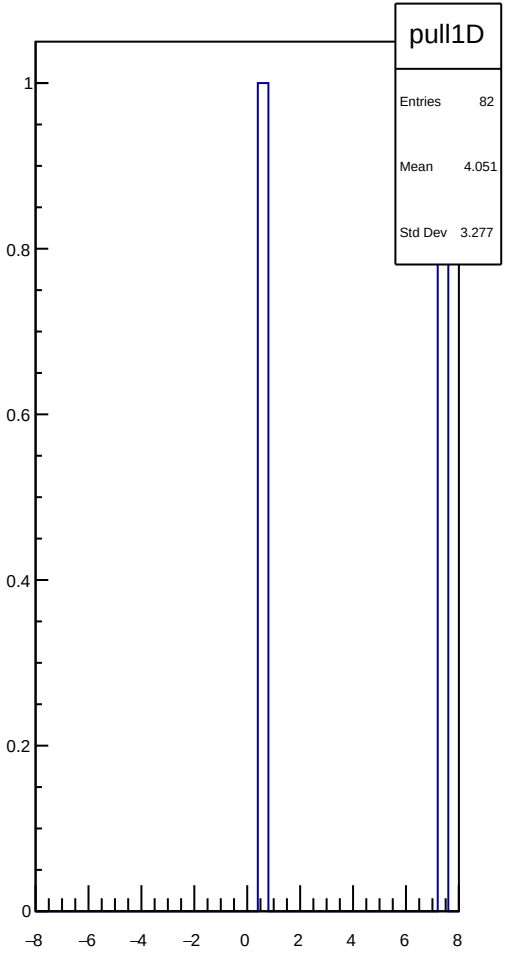

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

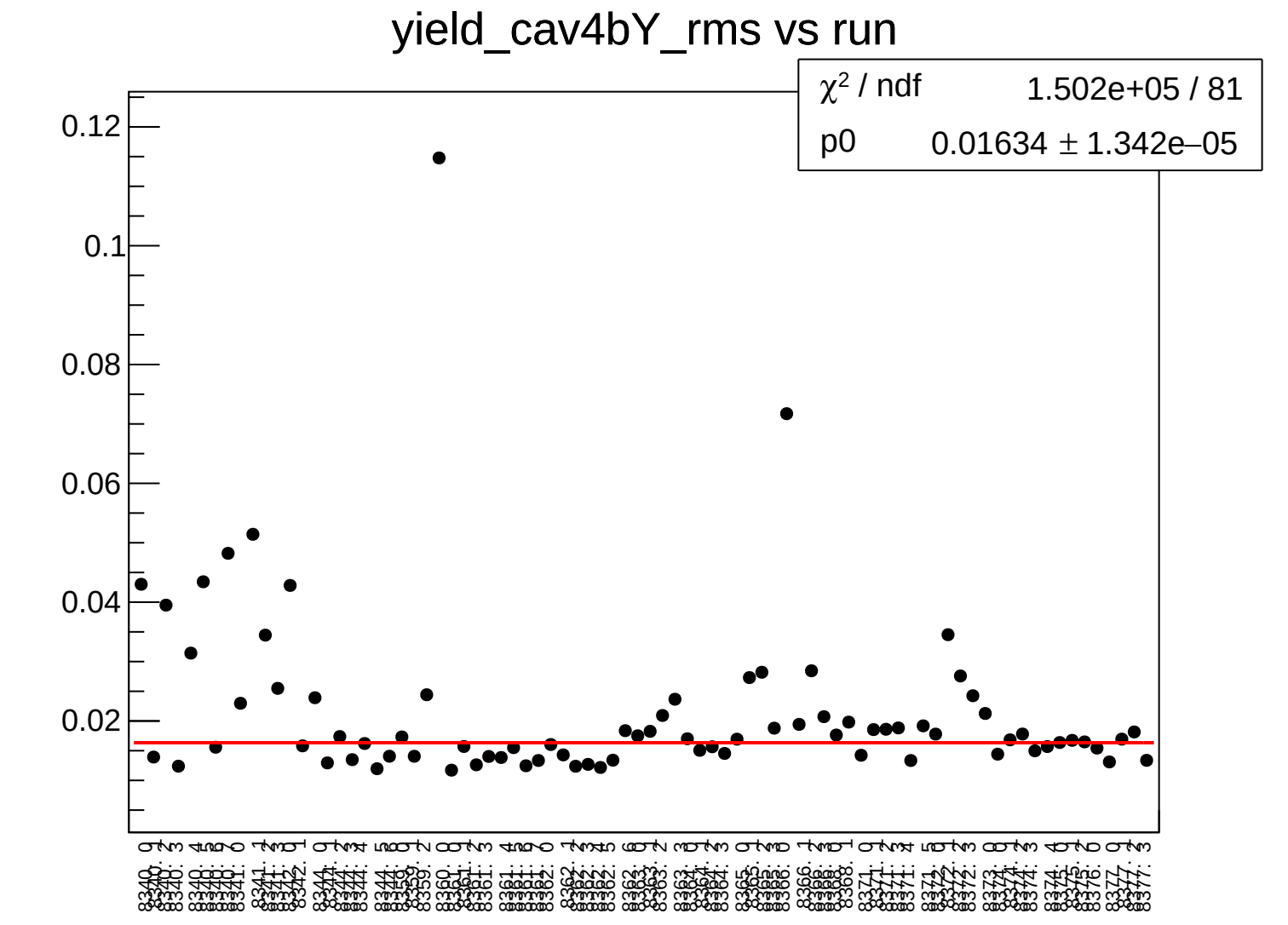

yield_cav4bX_mean vs run
χ² / ndf 1.95e+05 / 81
p0 0.98 ± 0.0001323
pull
Entries 82
Mean 0.0298
Std Dev 60.99

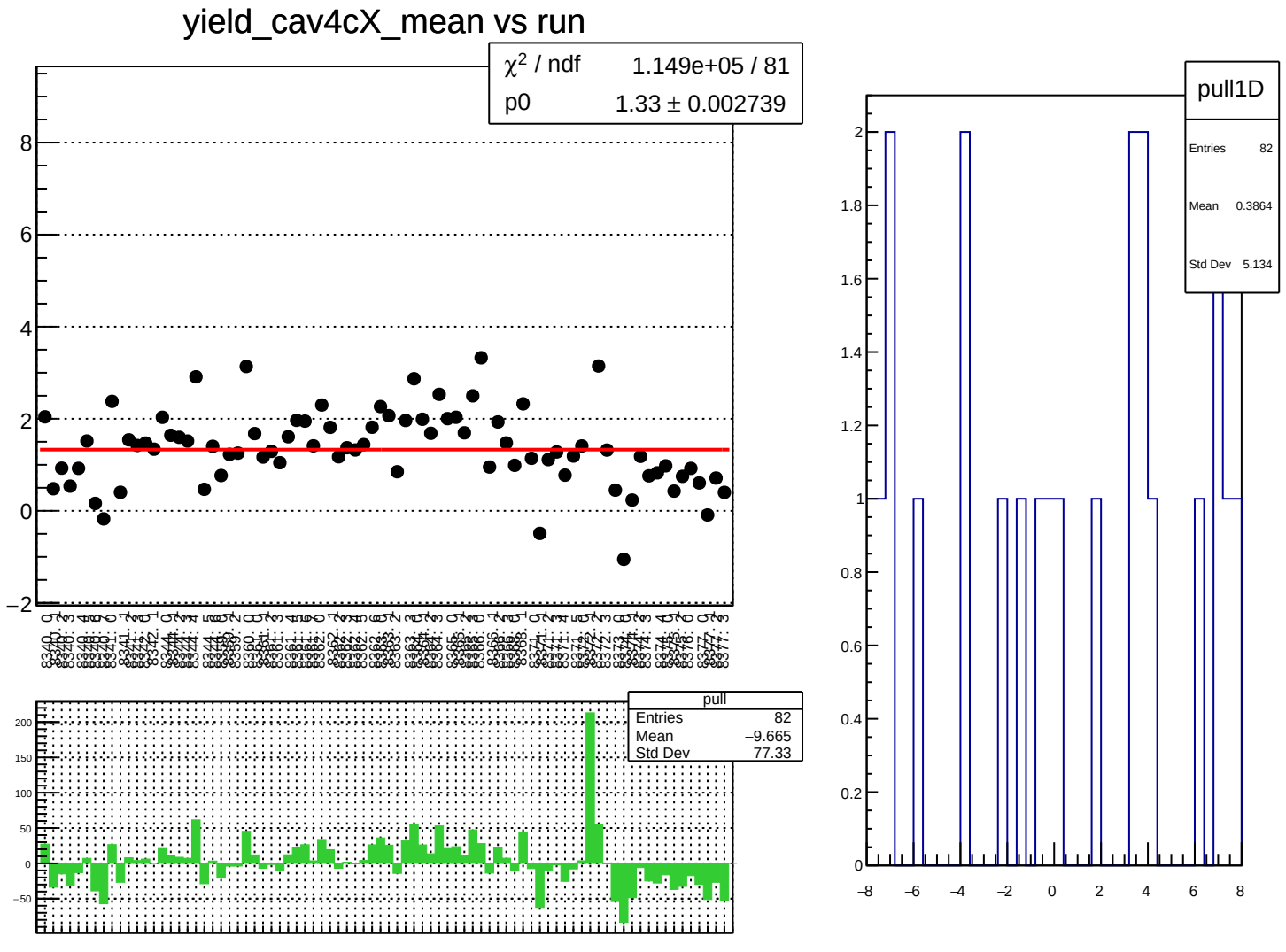

pull1D
Entries 82
Mean −1.343
Std Dev 4.153

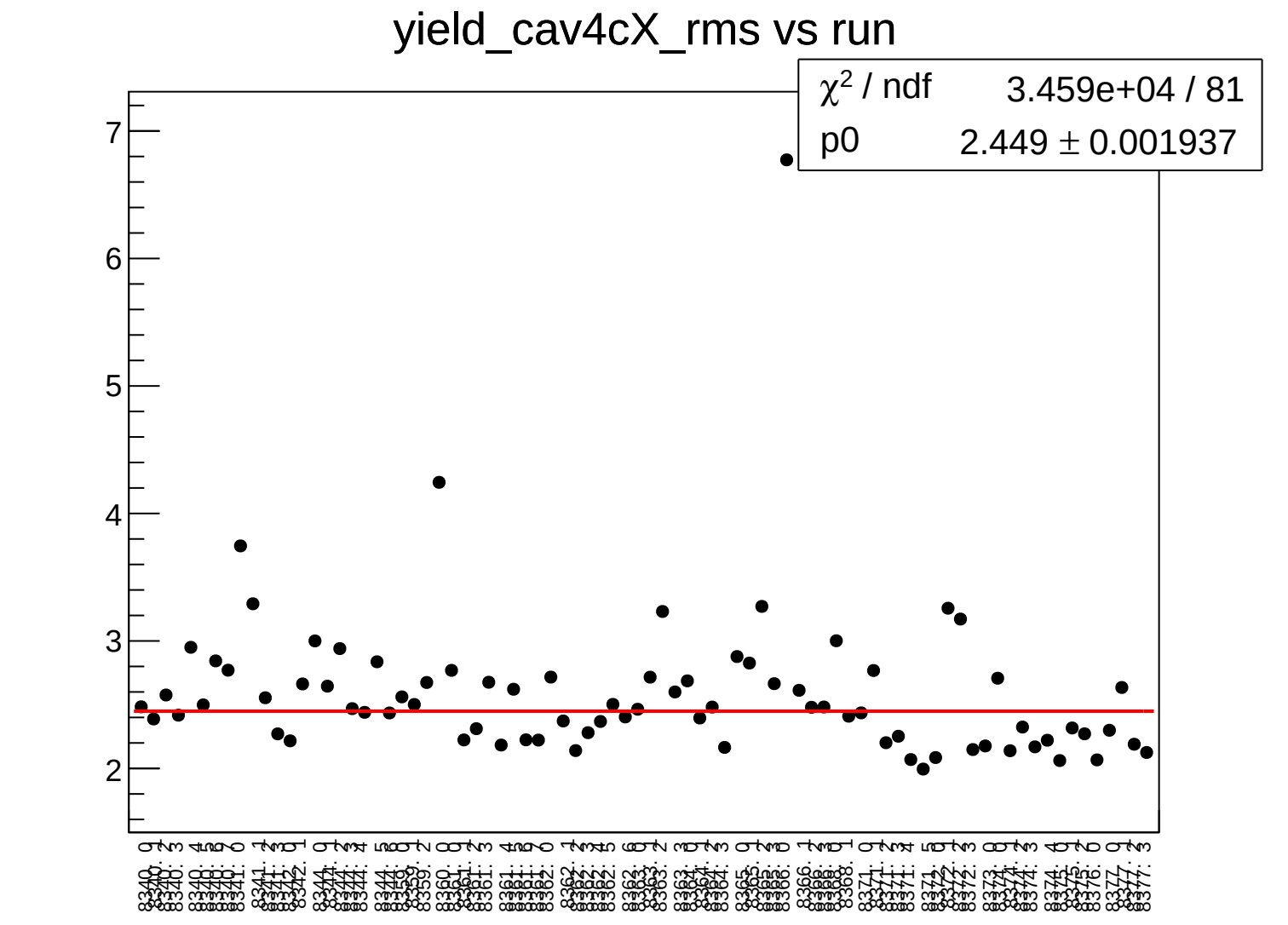

yield_cav4bX_rms vs run
χ² / ndf 3.635e+04 / 81
p0 0.1182 ± 9.354e−05
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

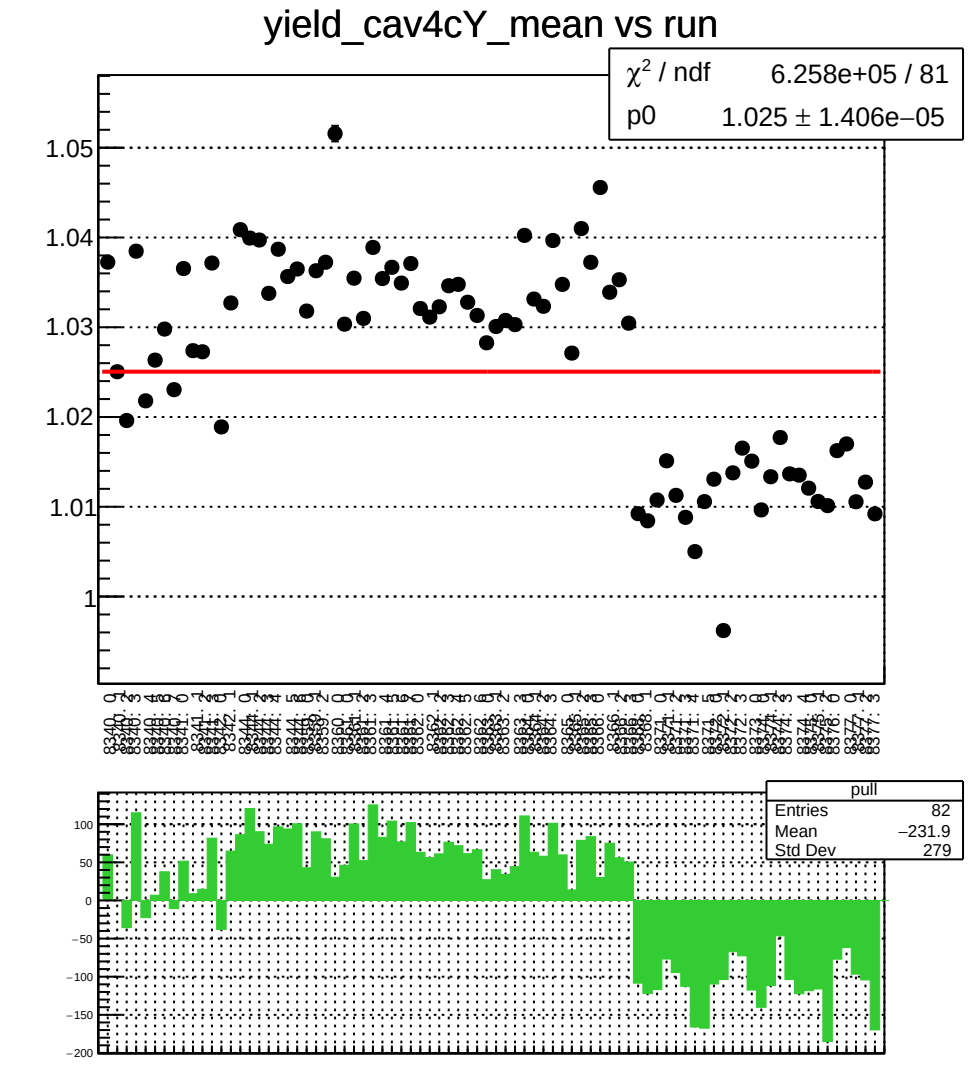

yield_cav4bY_mean vs run
χ² / ndf 7.21e+05 / 81
p0 1.093 ± 1.898e−05
1.12
1.1
1.08
1.06
1.04
pull
Entries 82
Mean −366.5
Std Dev 410.8
200
150
100
50
0
−50
−100
−150

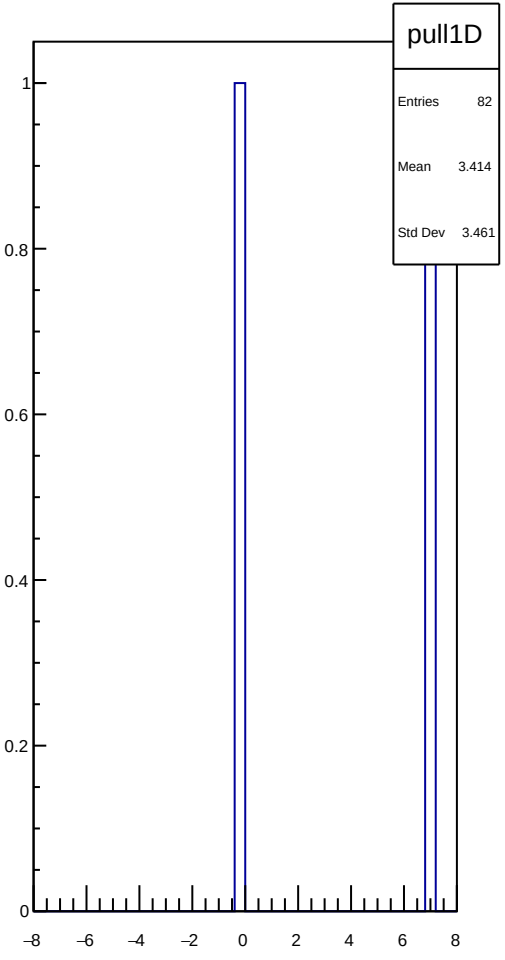

pull1D
Entries 82
Mean 4.051
Std Dev 3.277
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

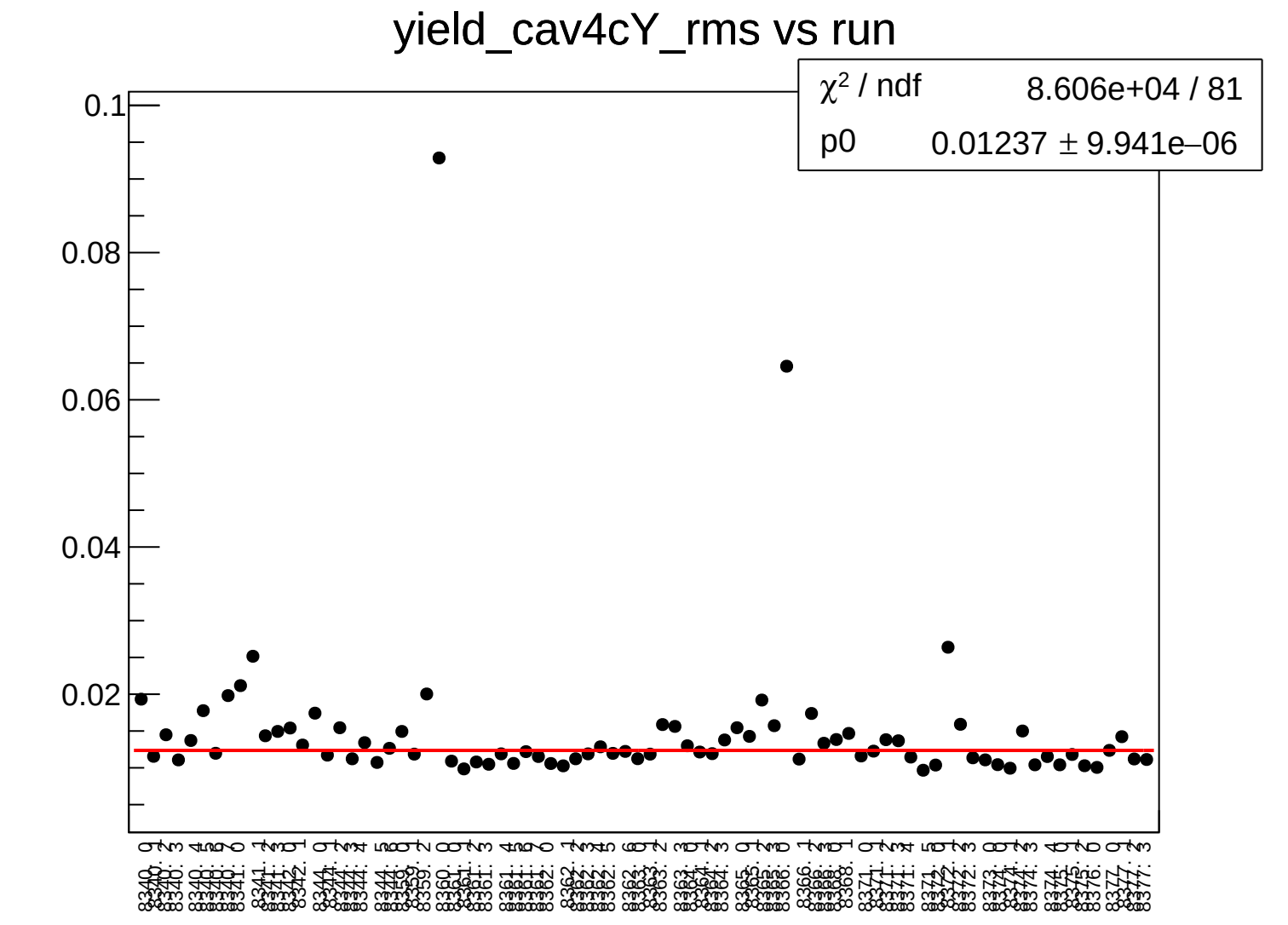

yield_cav4bY_rms vs run
χ² / ndf 1.502e+05 / 81
p0 0.01634 ± 1.342e−05
0.12
0.1
0.08
0.06
0.04
0.02

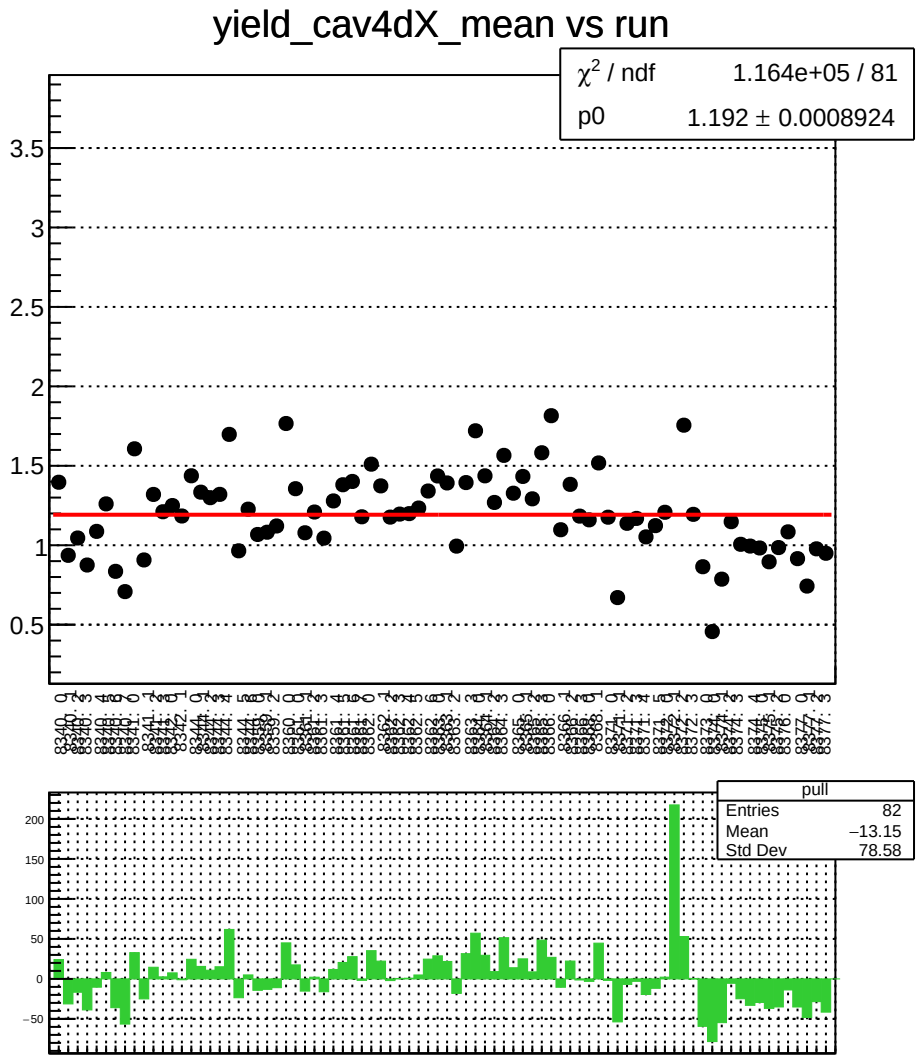

yield_cav4cX_mean vs run
χ² / ndf 1.149e+05 / 81
p0 1.33 ± 0.002739
pull
Entries 82
Mean −9.665
Std Dev 77.33
pull1D
Entries 82
Mean 0.3864
Std Dev 5.134

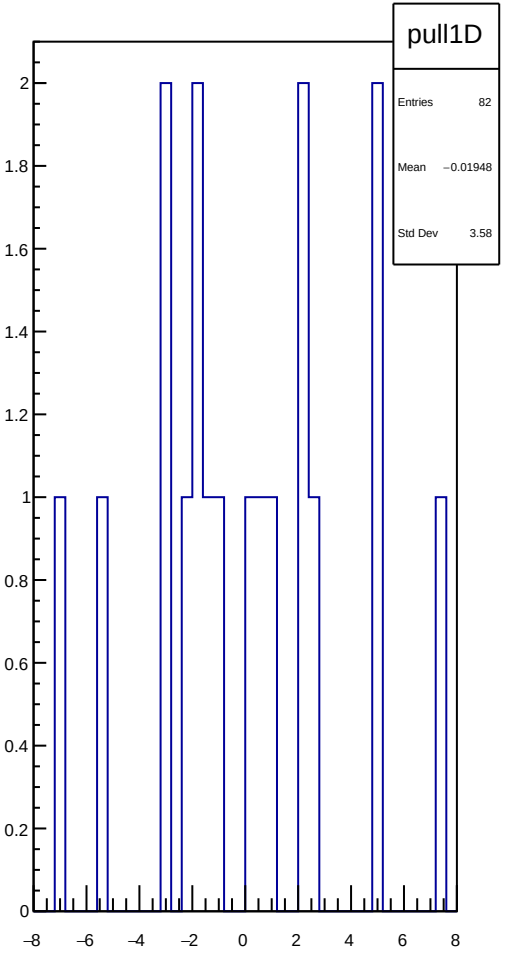

yield_cav4cX_rms vs run
χ^2 / ndf 3.459e+04 / 81
p0 2.449 ± 0.001937
7
6
5
4
3
2

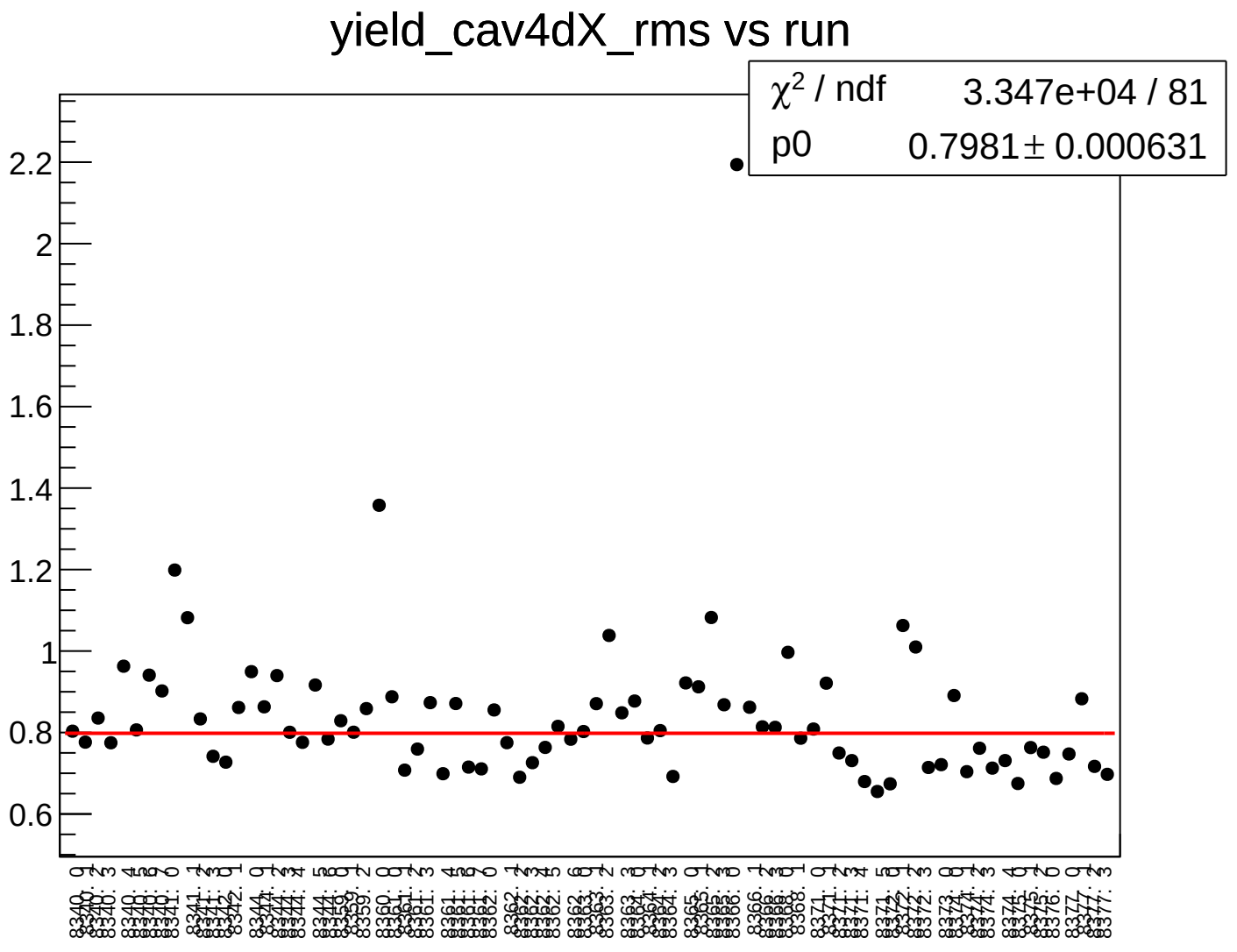

yield_cav4cY_mean vs run
χ² / ndf 6.258e+05 / 81
p0 1.025 ± 1.406e−05
1.05
1.04
1.03
1.02
1.01
1
pull
Entries 82
Mean −231.9
Std Dev 279
100
50
0
−50
−100
−150
−200

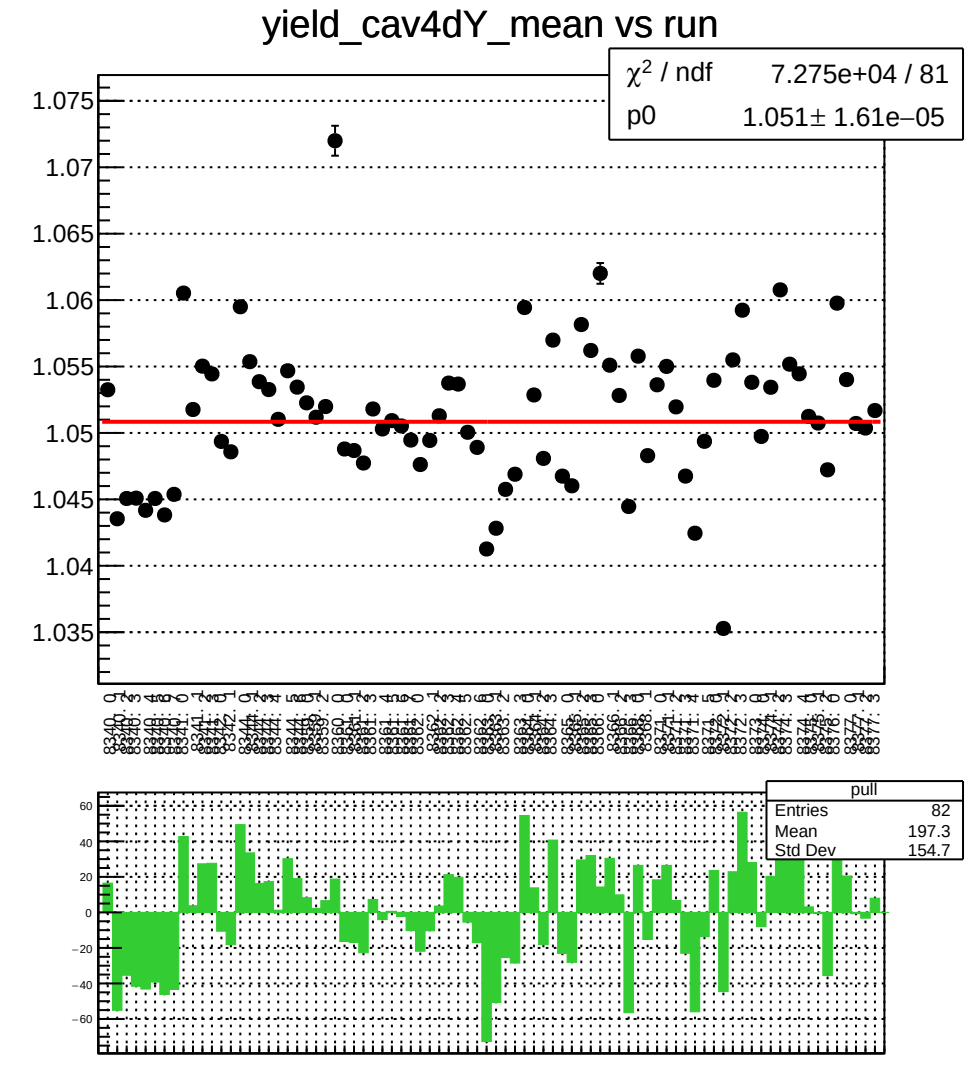

pull1D
Entries 82
Mean 3.414
Std Dev 3.461
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

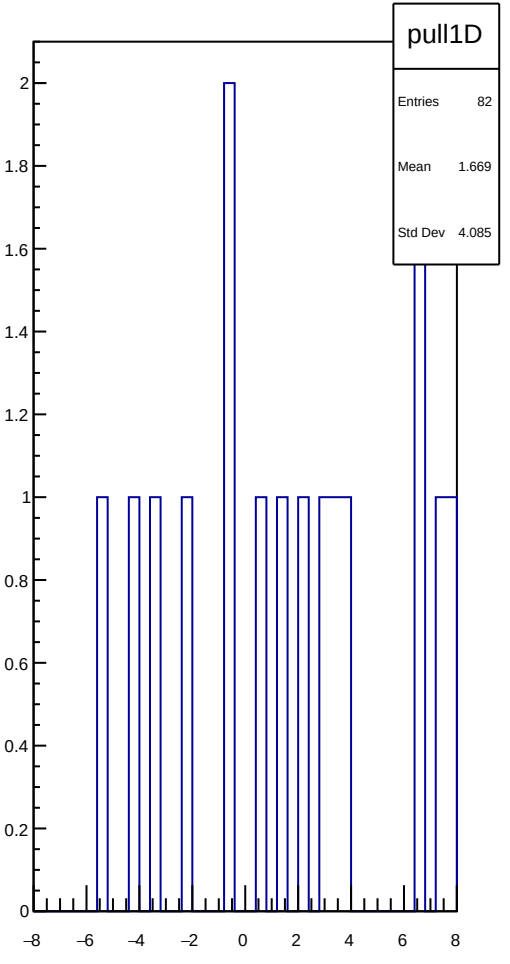

yield_cav4cY_rms vs run
χ² / ndf 8.606e+04 / 81
p0 0.01237 ± 9.941e–06
0.1
0.08
0.06
0.04
0.02

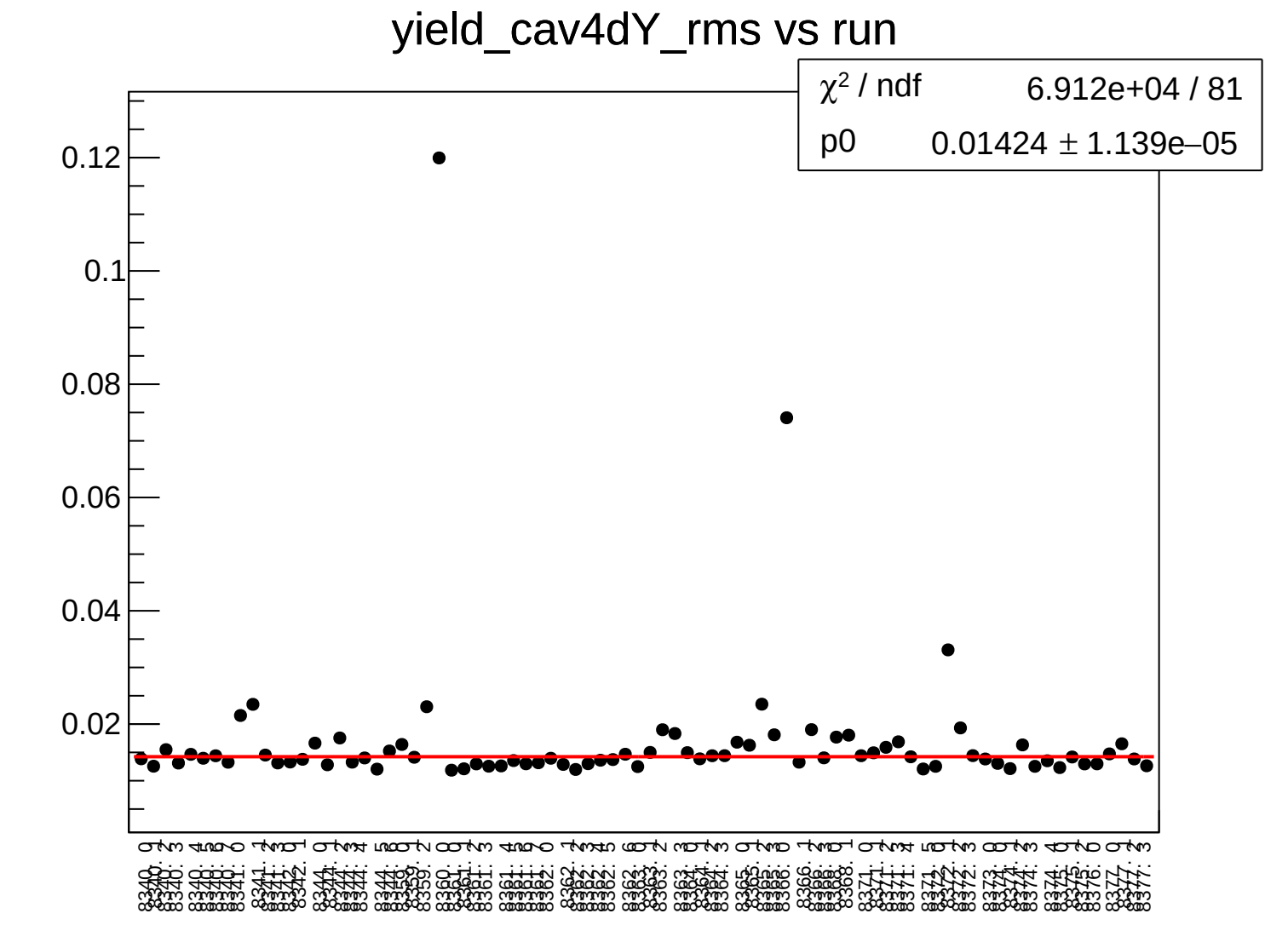

yield_cav4dX_mean vs run
χ² / ndf 1.164e+05 / 81
p0 1.192 ± 0.0008924
pull
Entries 82
Mean −13.15
Std Dev 78.58

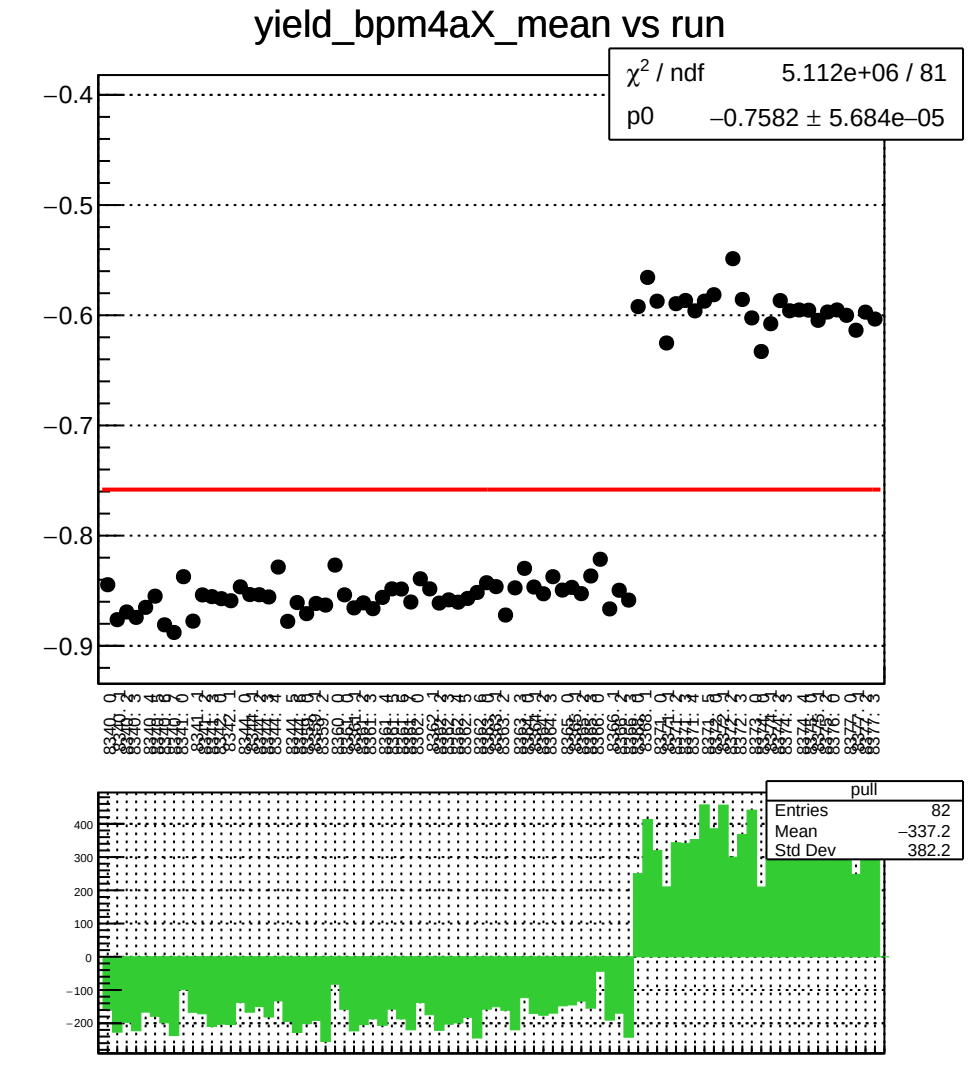

pull1D
Entries 82
Mean −0.01948
Std Dev 3.58

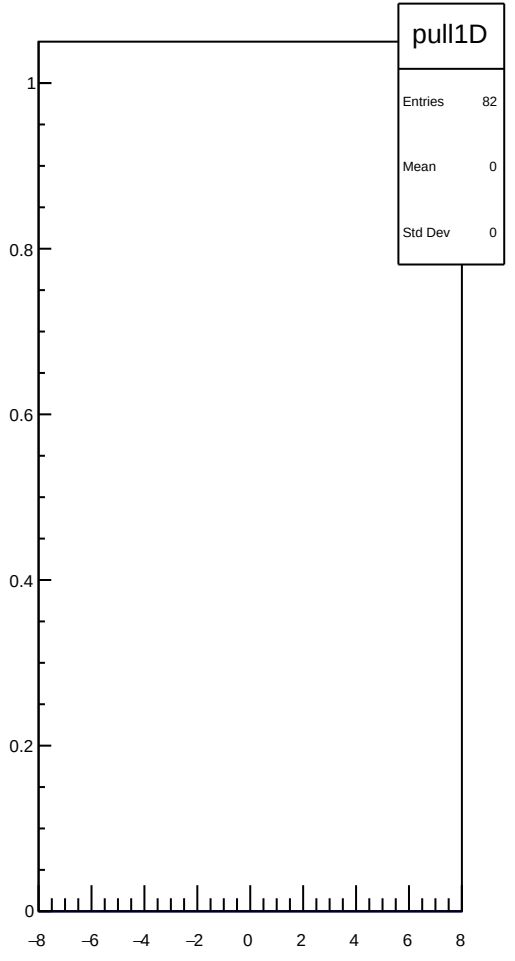

yield_cav4dX_rms vs run
χ² / ndf 3.347e+04 / 81
p0 0.7981 ± 0.000631
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6

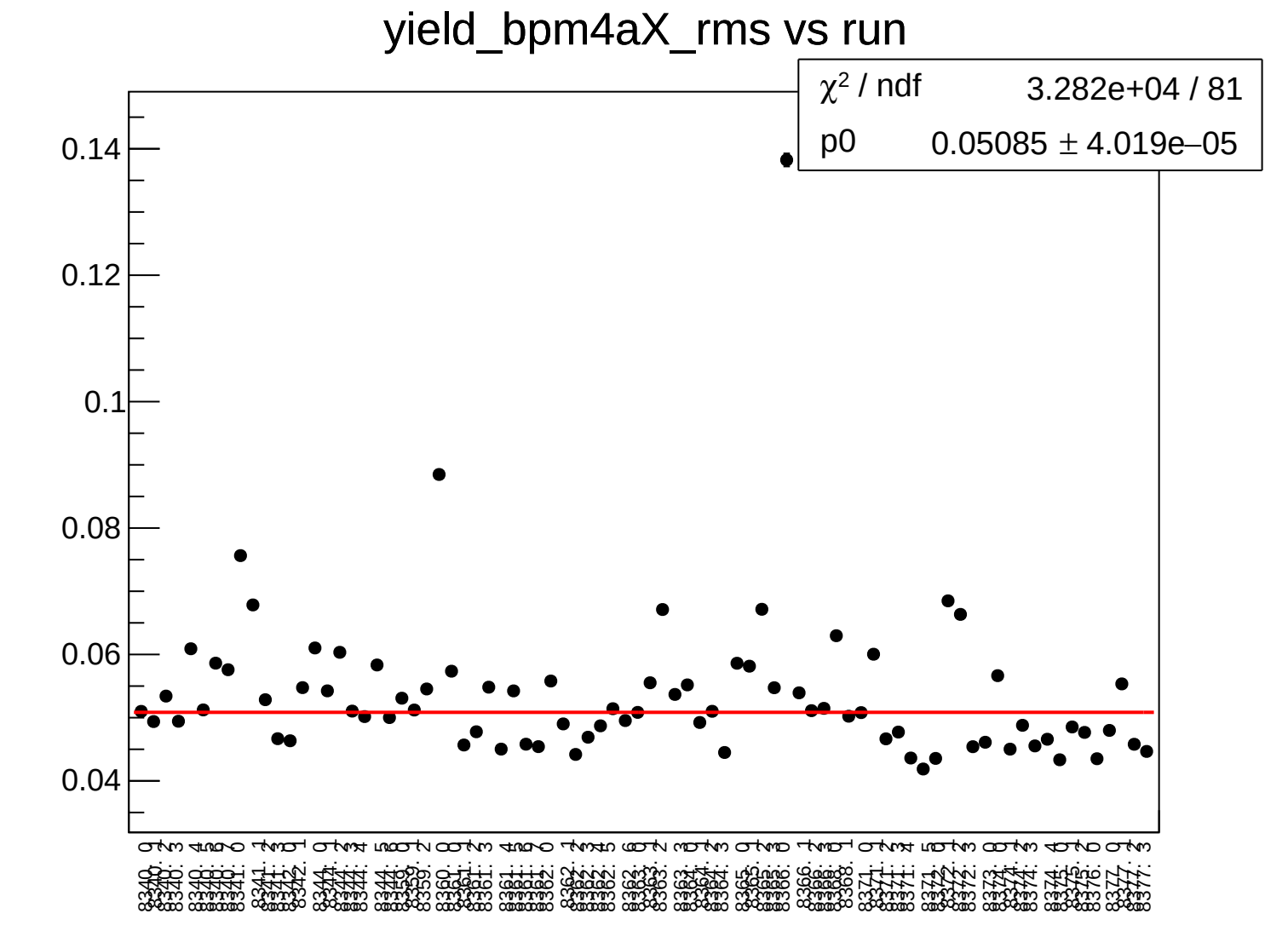

yield_cav4dY_mean vs run
χ² / ndf 7.275e+04 / 81
p0 1.051± 1.61e−05
1.075
1.07
1.065
1.06
1.055
1.05
1.045
1.04
1.035
pull
Entries 82
Mean 197.3
Std Dev 154.7
60
40
20
0
−20
−40
−60

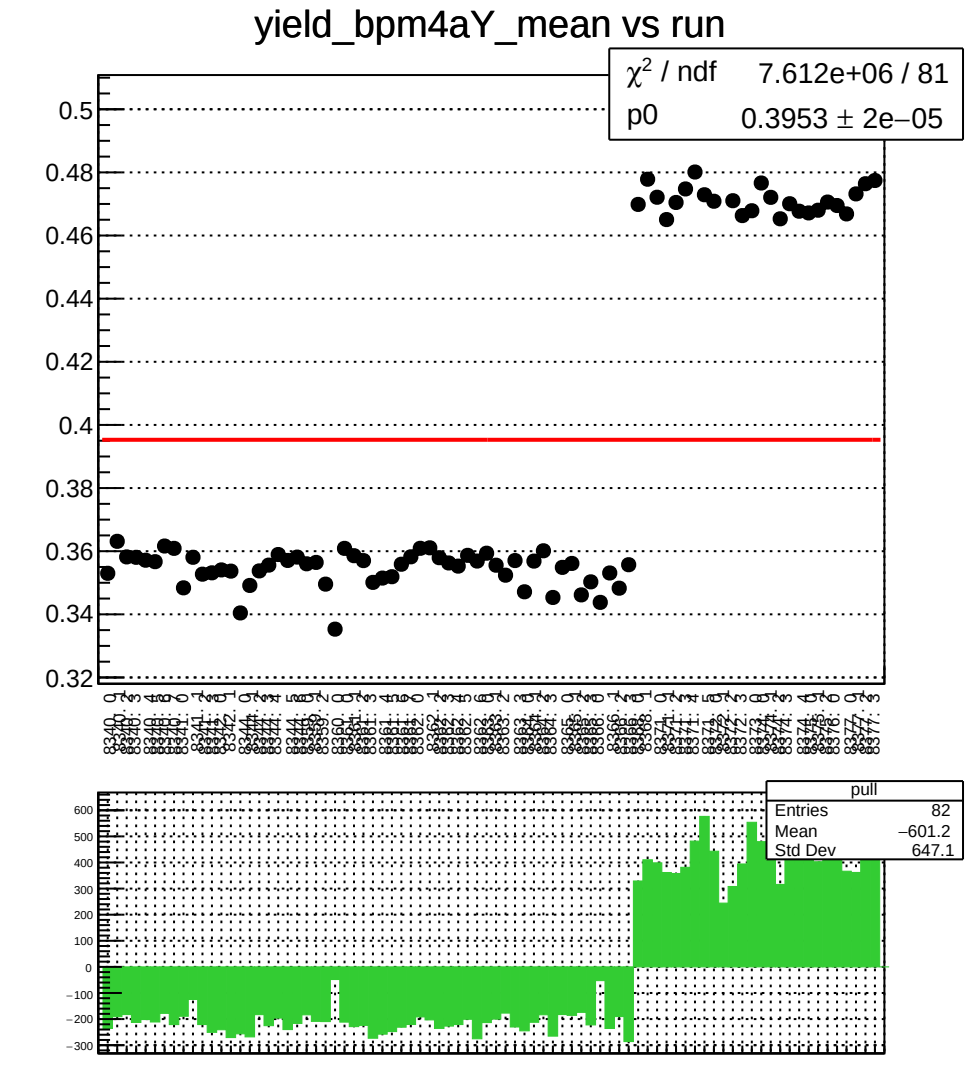

pull1D
Entries 82
Mean 1.669
Std Dev 4.085
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

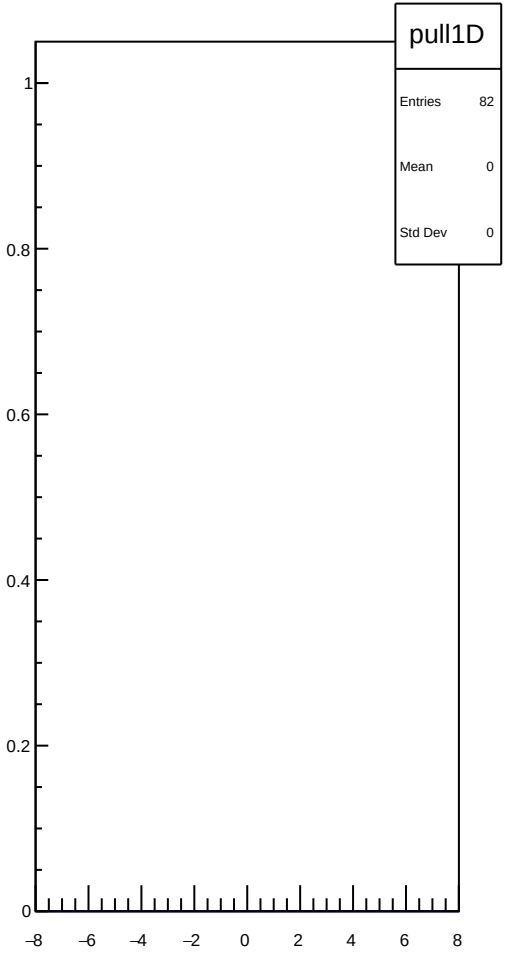

yield_cav4dY_rms vs run
χ² / ndf 6.912e+04 / 81
p0 0.01424 ± 1.139e−05
0.12
0.1
0.08
0.06
0.04
0.02

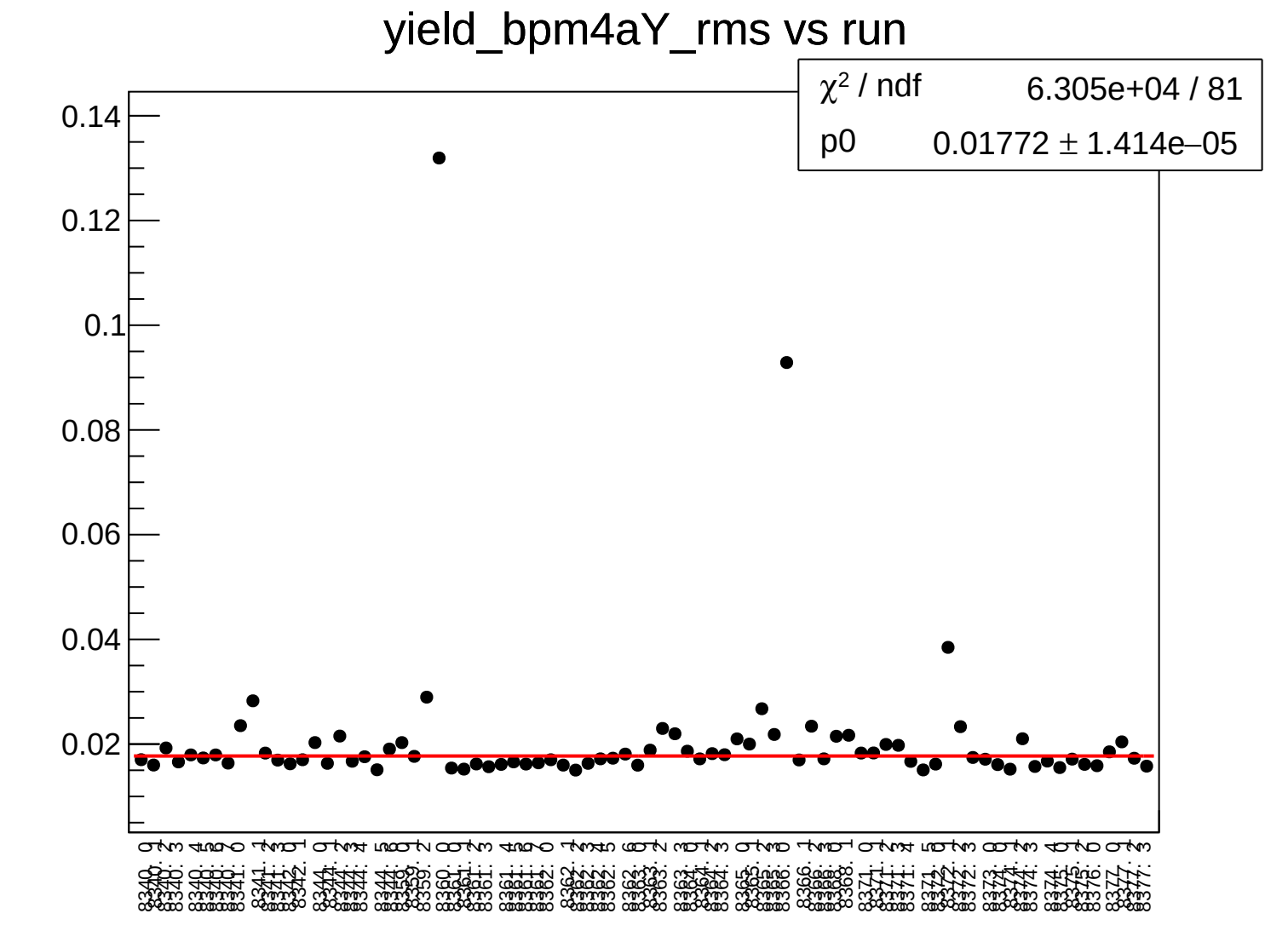

yield_bpm4aX_mean vs run
χ² / ndf 5.112e+06 / 81
p0 −0.7582 ± 5.684e−05
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
pull
Entries 82
Mean −337.2
Std Dev 382.2
400
300
200
100
0
−100
−200

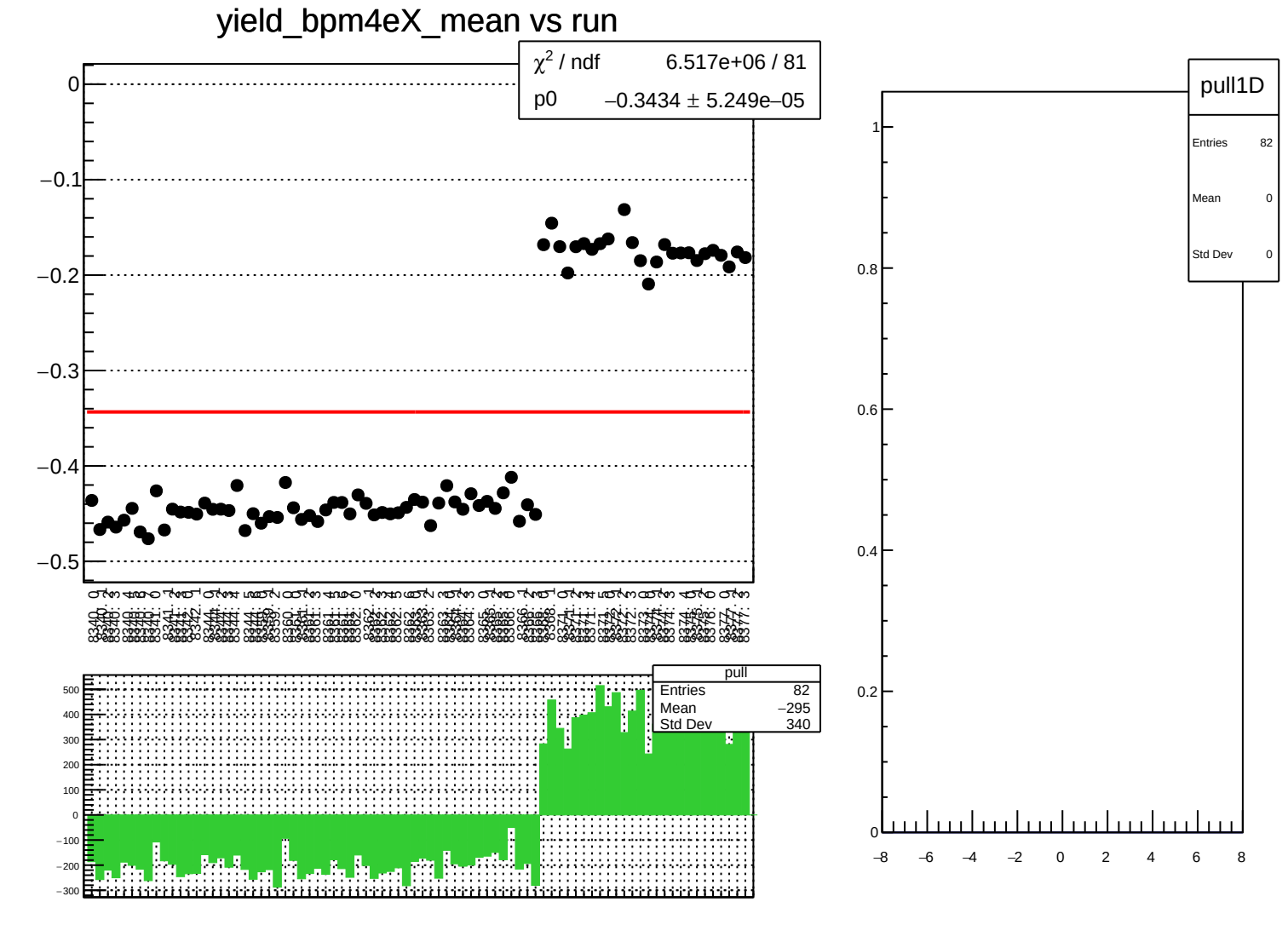

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

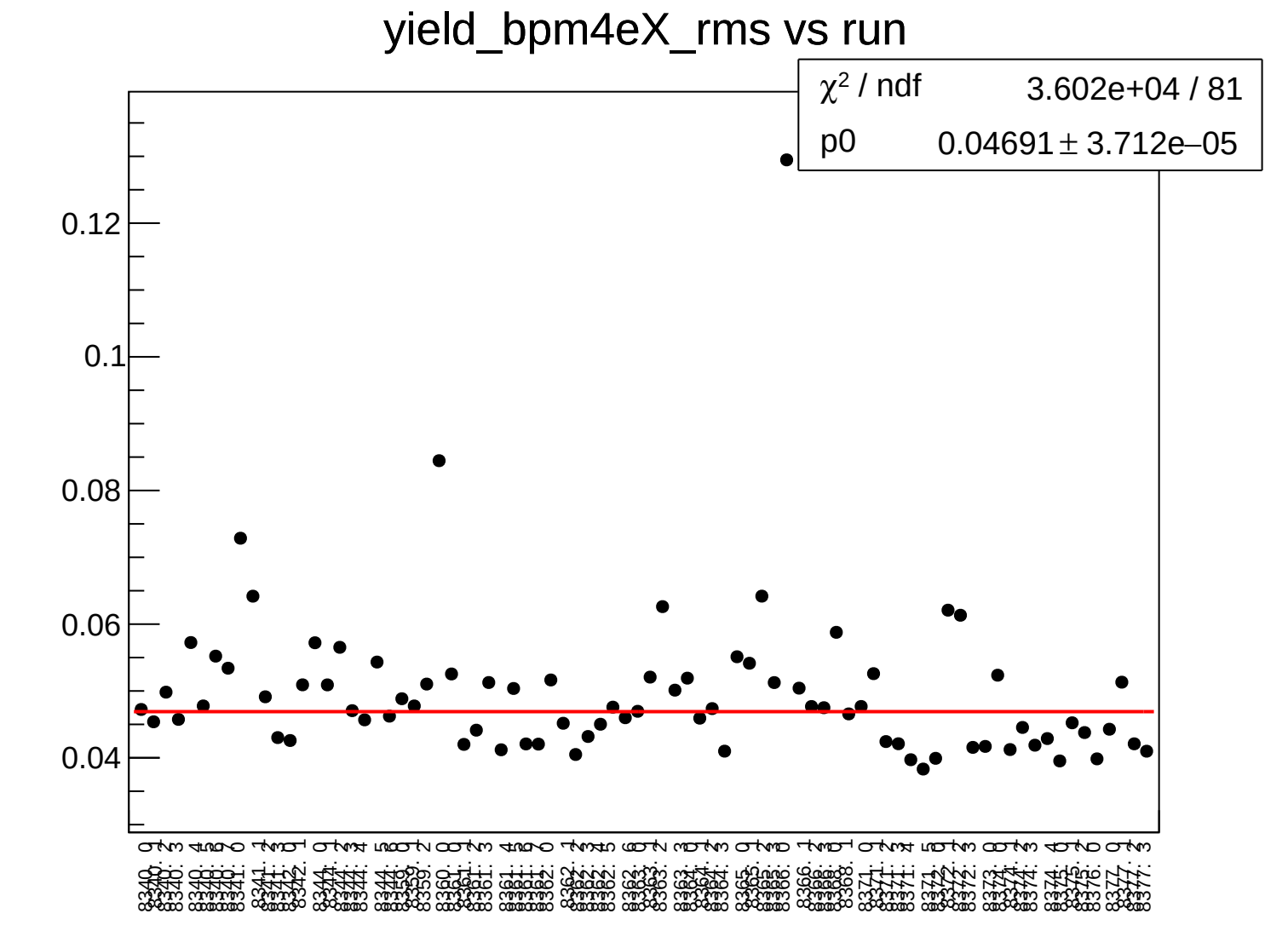

yield_bpm4aX_rms vs run
χ² / ndf 3.282e+04 / 81
p0 0.05085 ± 4.019e–05
0.14
0.12
0.1
0.08
0.06
0.04

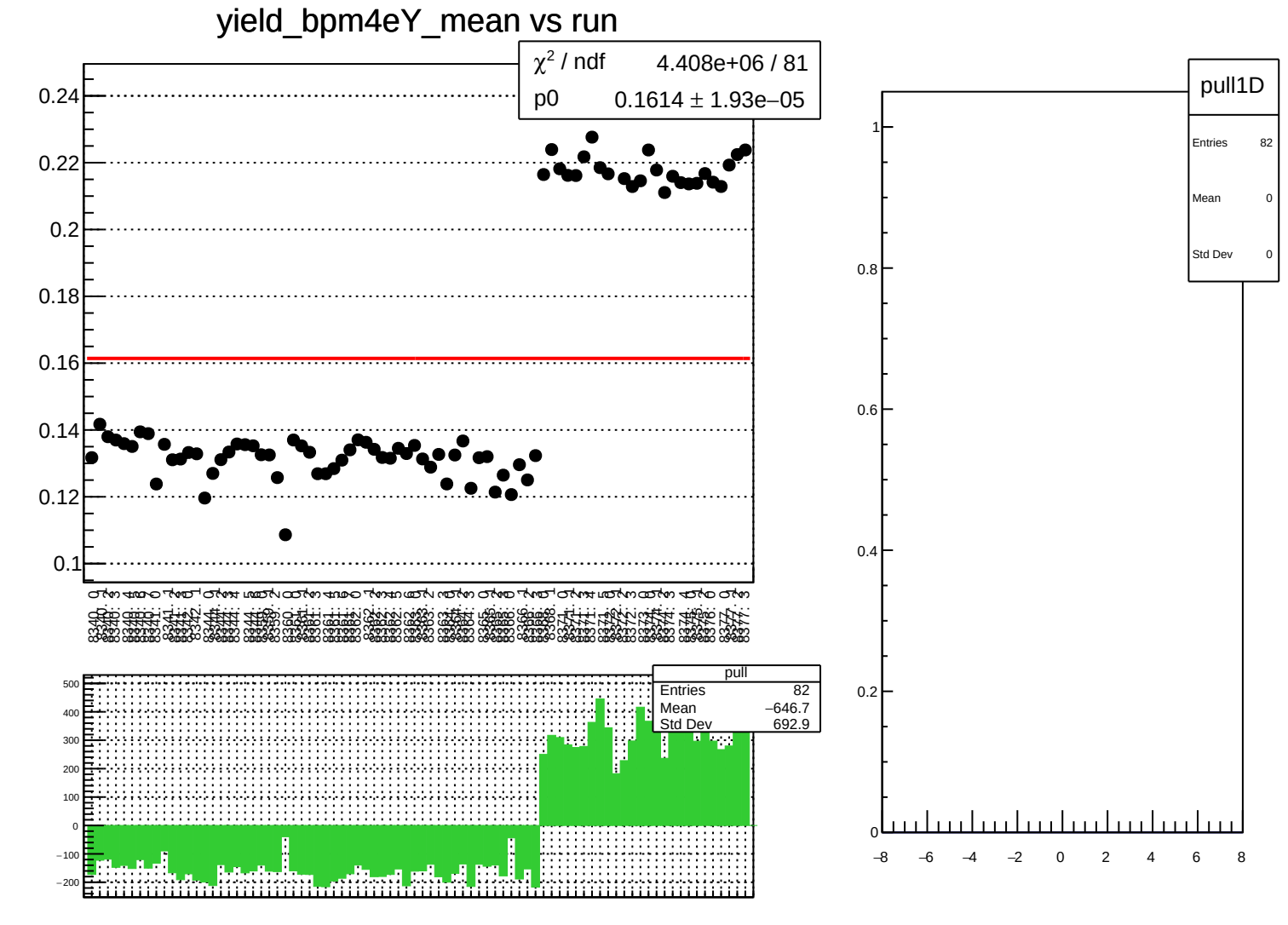

yield_bpm4aY_mean vs run
χ² / ndf 7.612e+06 / 81
p0 0.3953 ± 2e−05
pull
Entries 82
Mean −601.2
Std Dev 647.1

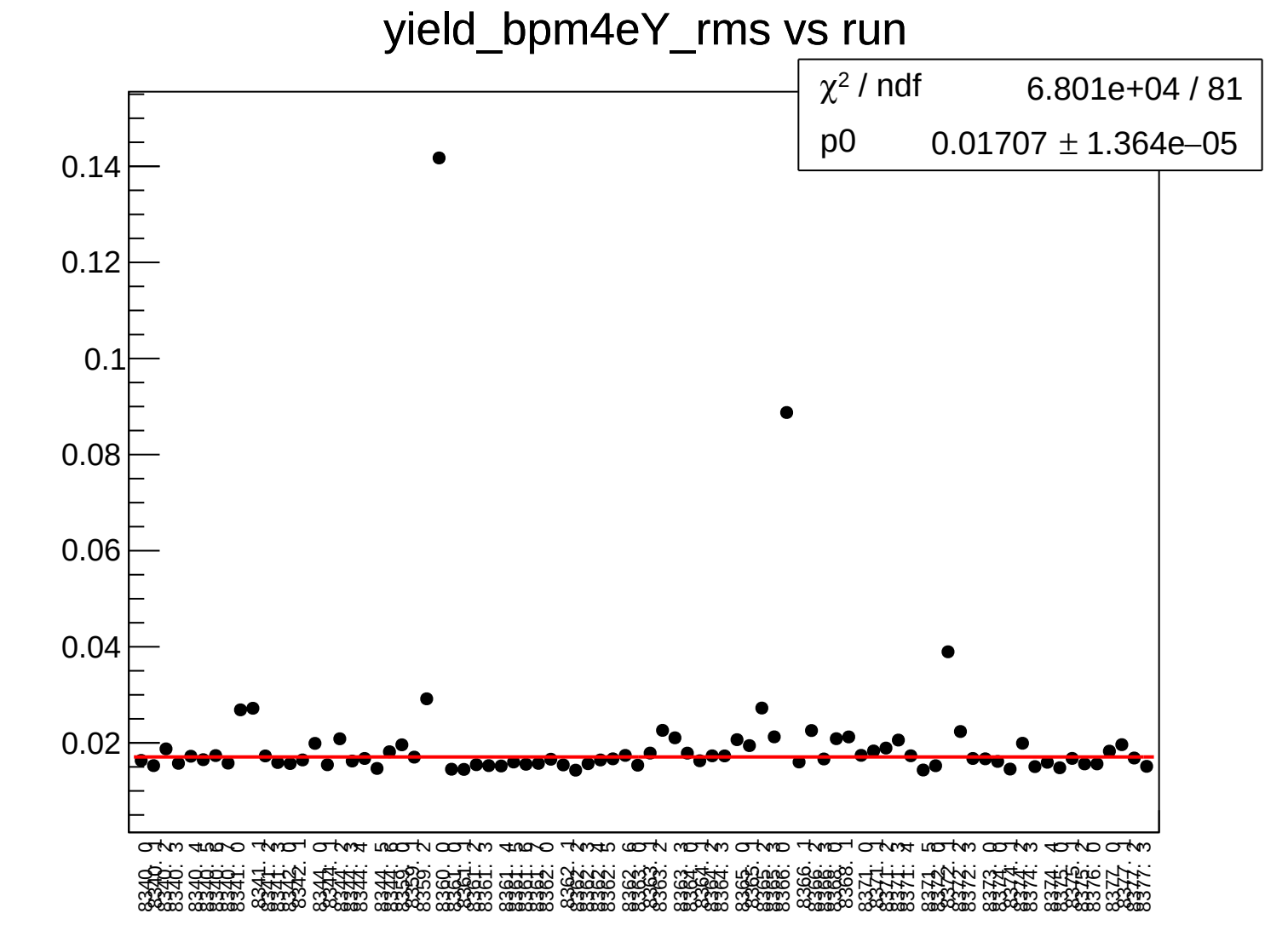

pull1D
Entries 82
Mean 0
Std Dev 0

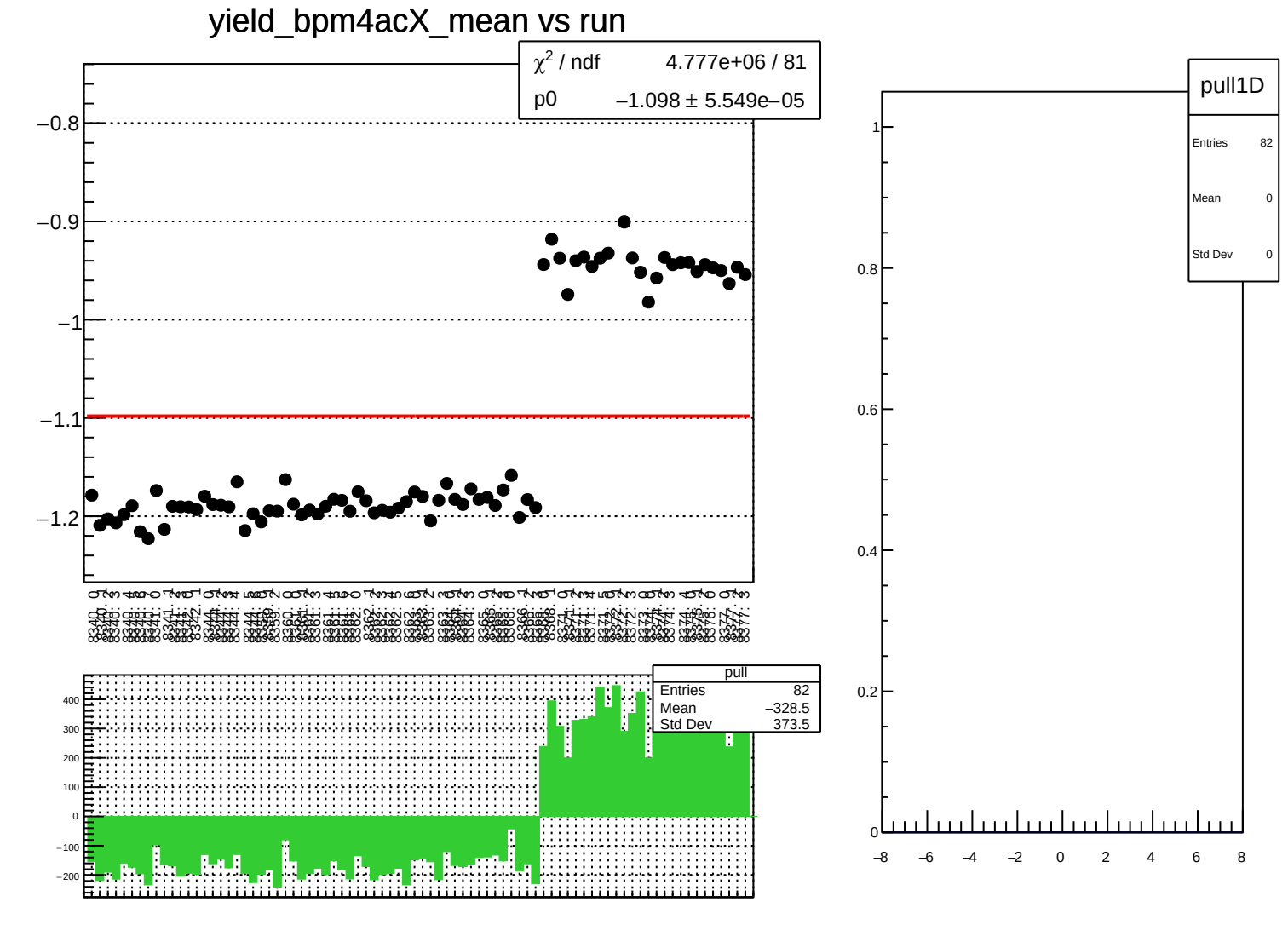

yield_bpm4aY_rms vs run
χ² / ndf 6.305e+04 / 81
p0 0.01772 ± 1.414e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

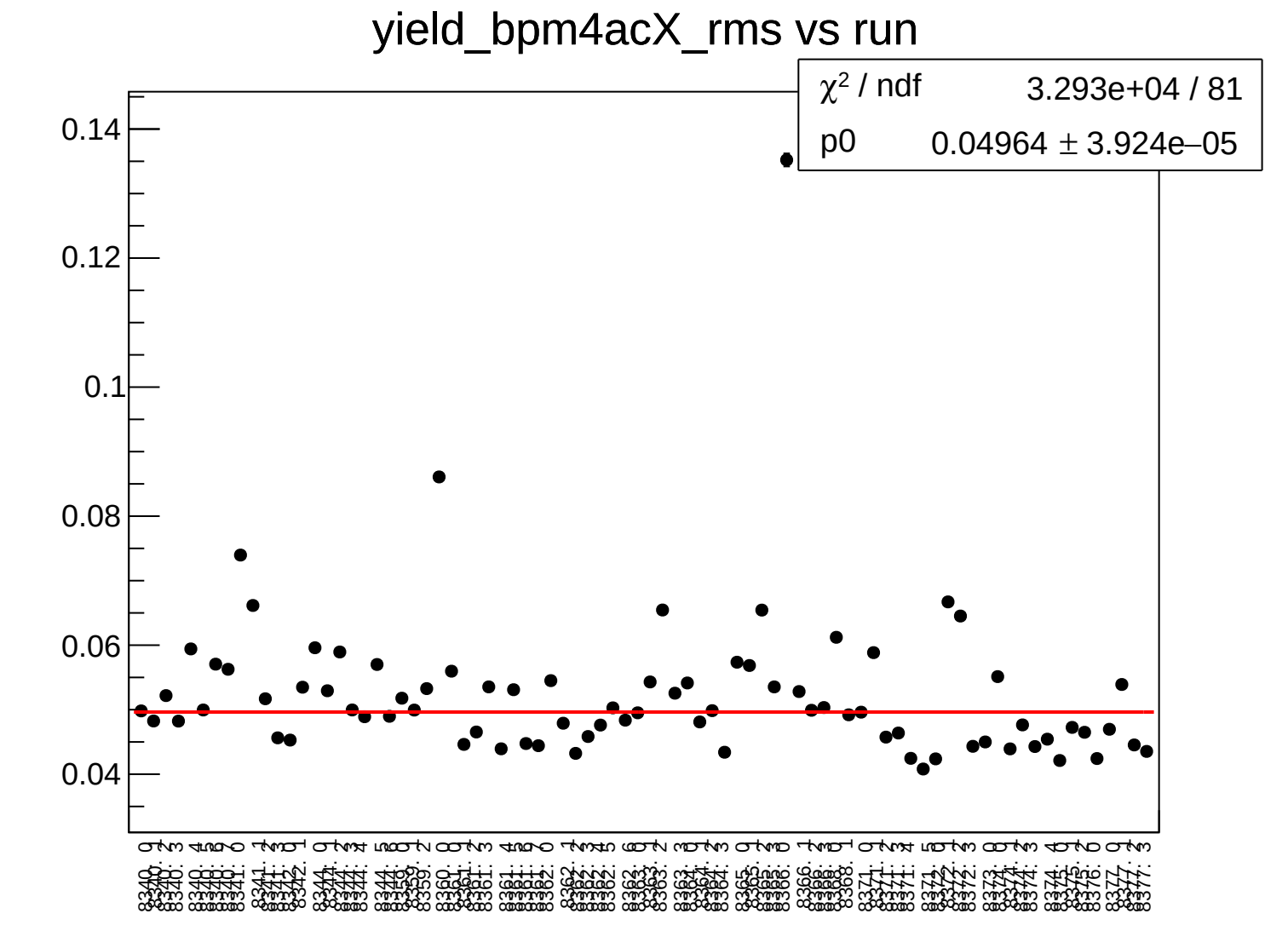

yield_bpm4eX_mean vs run
χ² / ndf 6.517e+06 / 81
p0 −0.3434 ± 5.249e−05
pull
Entries 82
Mean −295
Std Dev 340
pull1D
Entries 82
Mean 0
Std Dev 0

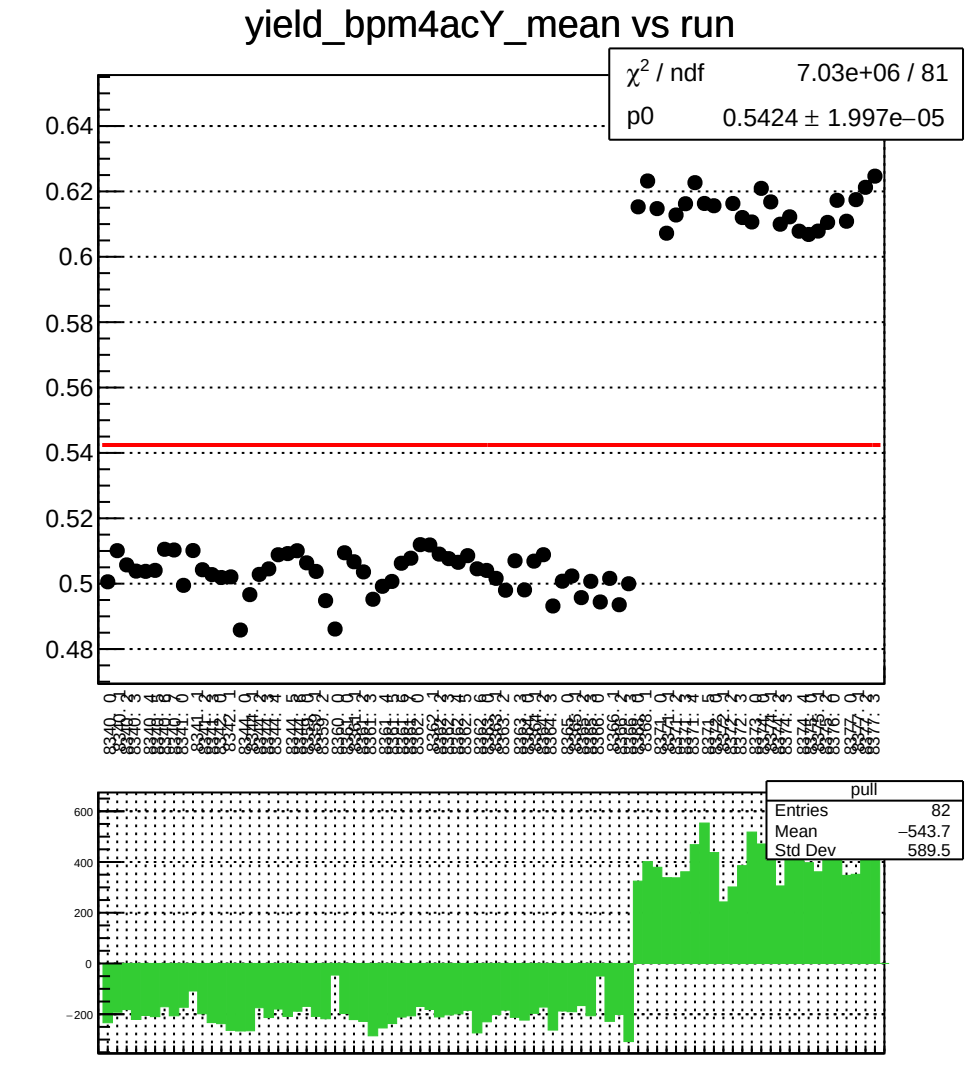

yield_bpm4eX_rms vs run
χ² / ndf 3.602e+04 / 81
p0 0.04691 ± 3.712e–05
0.12
0.1
0.08
0.06
0.04

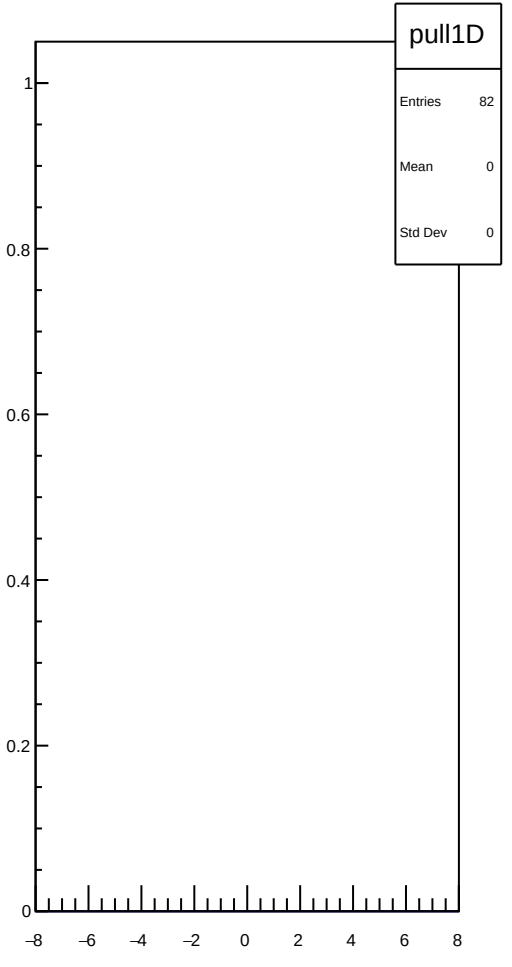

yield_bpm4eY_mean vs run
χ² / ndf 4.408e+06 / 81
p0 0.1614 ± 1.93e−05
pull
Entries 82
Mean −646.7
Std Dev 692.9
pull1D
Entries 82
Mean 0
Std Dev 0

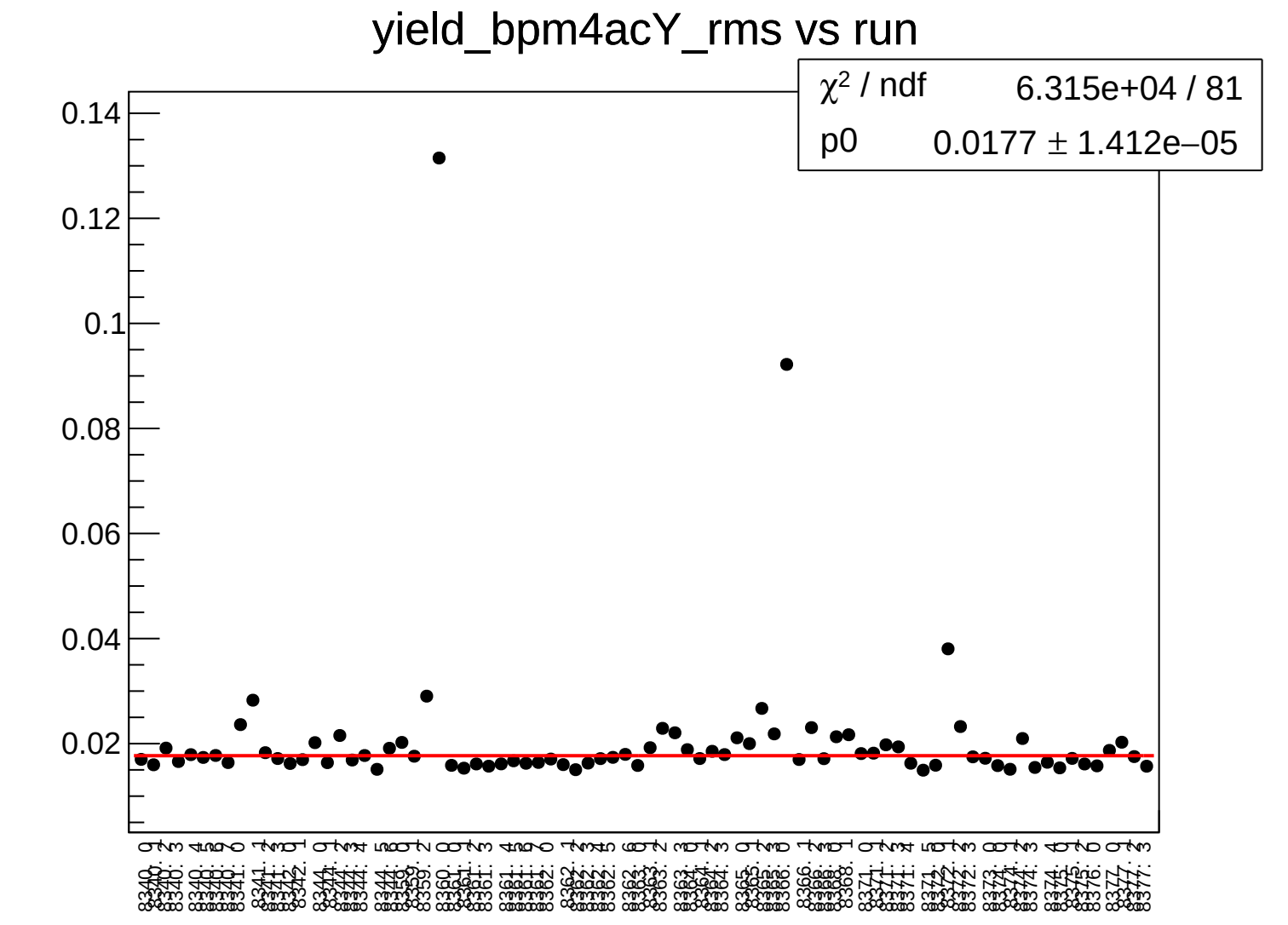

yield_bpm4eY_rms vs run
χ² / ndf 6.801e+04 / 81
p0 0.01707 ± 1.364e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

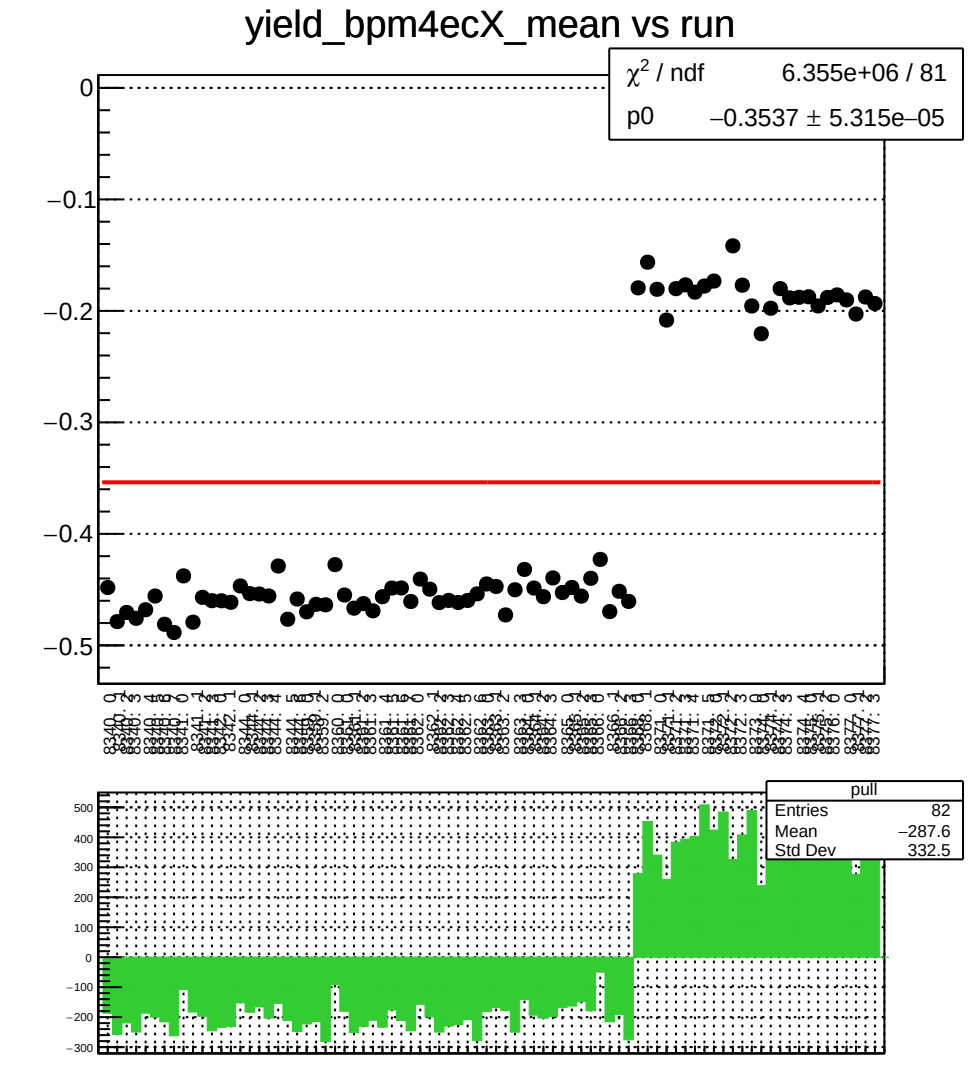

yield_bpm4acX_mean vs run
χ² / ndf 4.777e+06 / 81
p0 −1.098 ± 5.549e−05
−0.8
−0.9
−1
−1.1
−1.2
pull
Entries 82
Mean −328.5
Std Dev 373.5
400
300
200
100
0
−100
−200
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

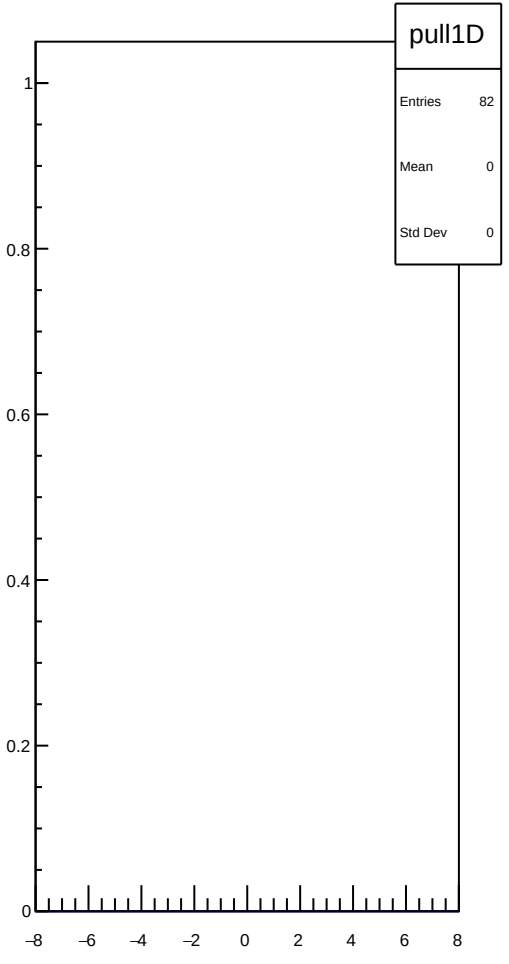

yield_bpm4acX_rms vs run
χ² / ndf 3.293e+04 / 81
p0 0.04964 ± 3.924e−05
0.14
0.12
0.1
0.08
0.06
0.04

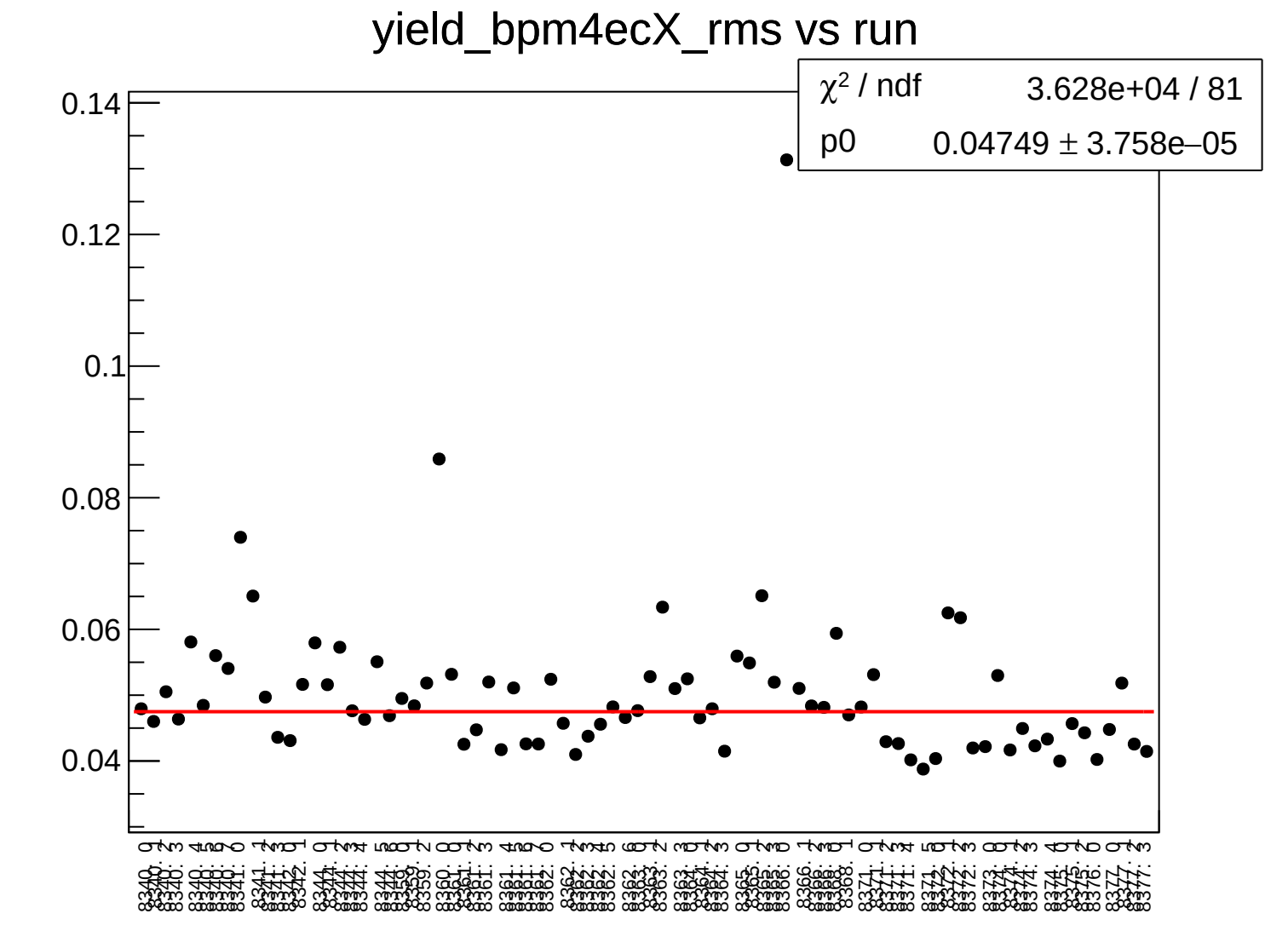

yield_bpm4acY_mean vs run
χ² / ndf 7.03e+06 / 81
p0 0.5424 ± 1.997e−05
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48
pull
Entries 82
Mean −543.7
Std Dev 589.5
600
400
200
0
−200

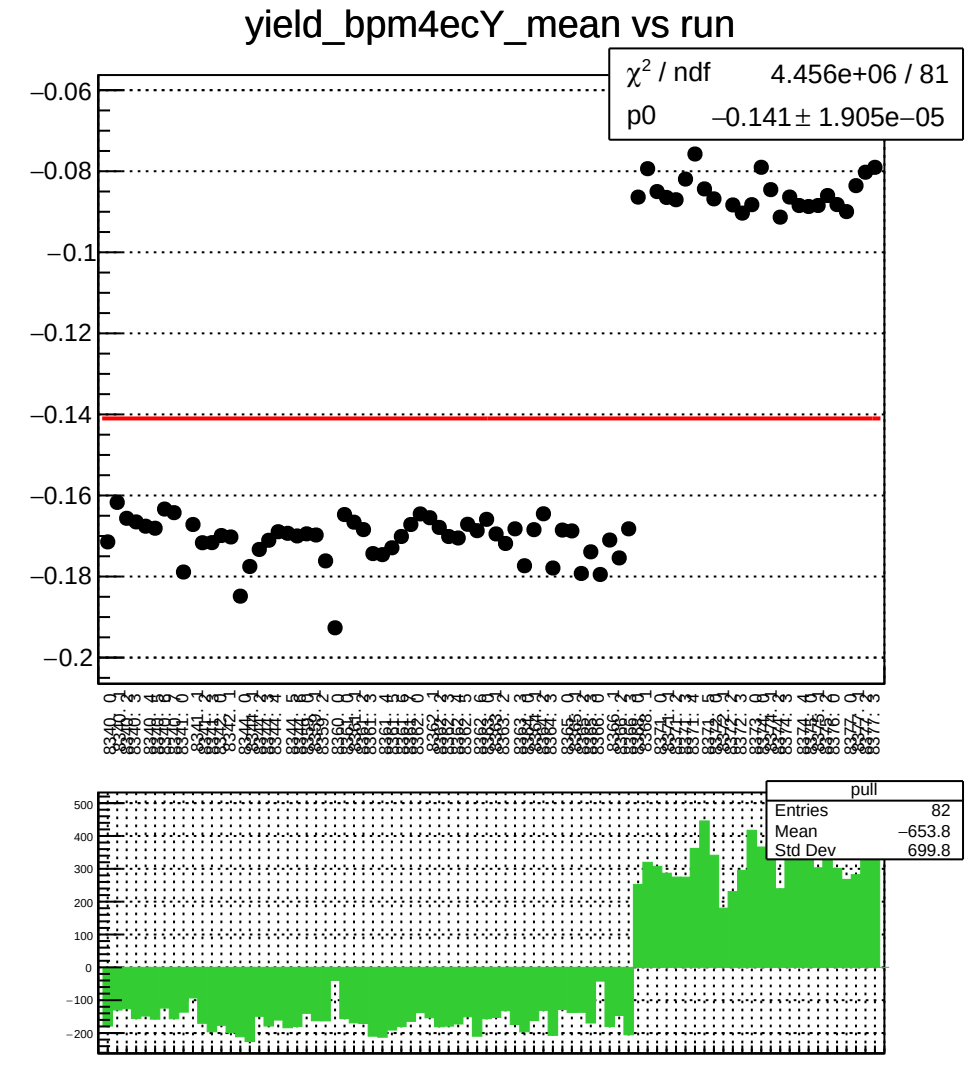

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

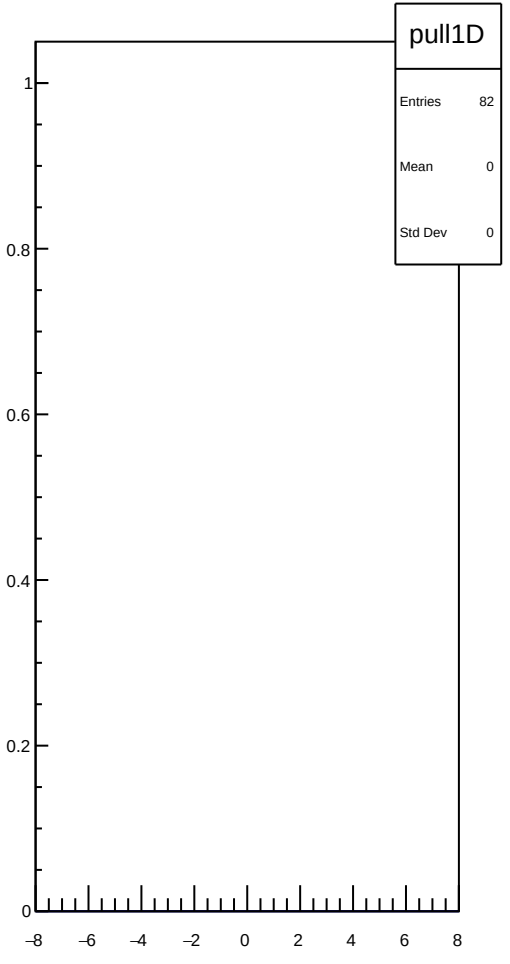

yield_bpm4acY_rms vs run
χ² / ndf 6.315e+04 / 81
p0 0.0177 ± 1.412e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

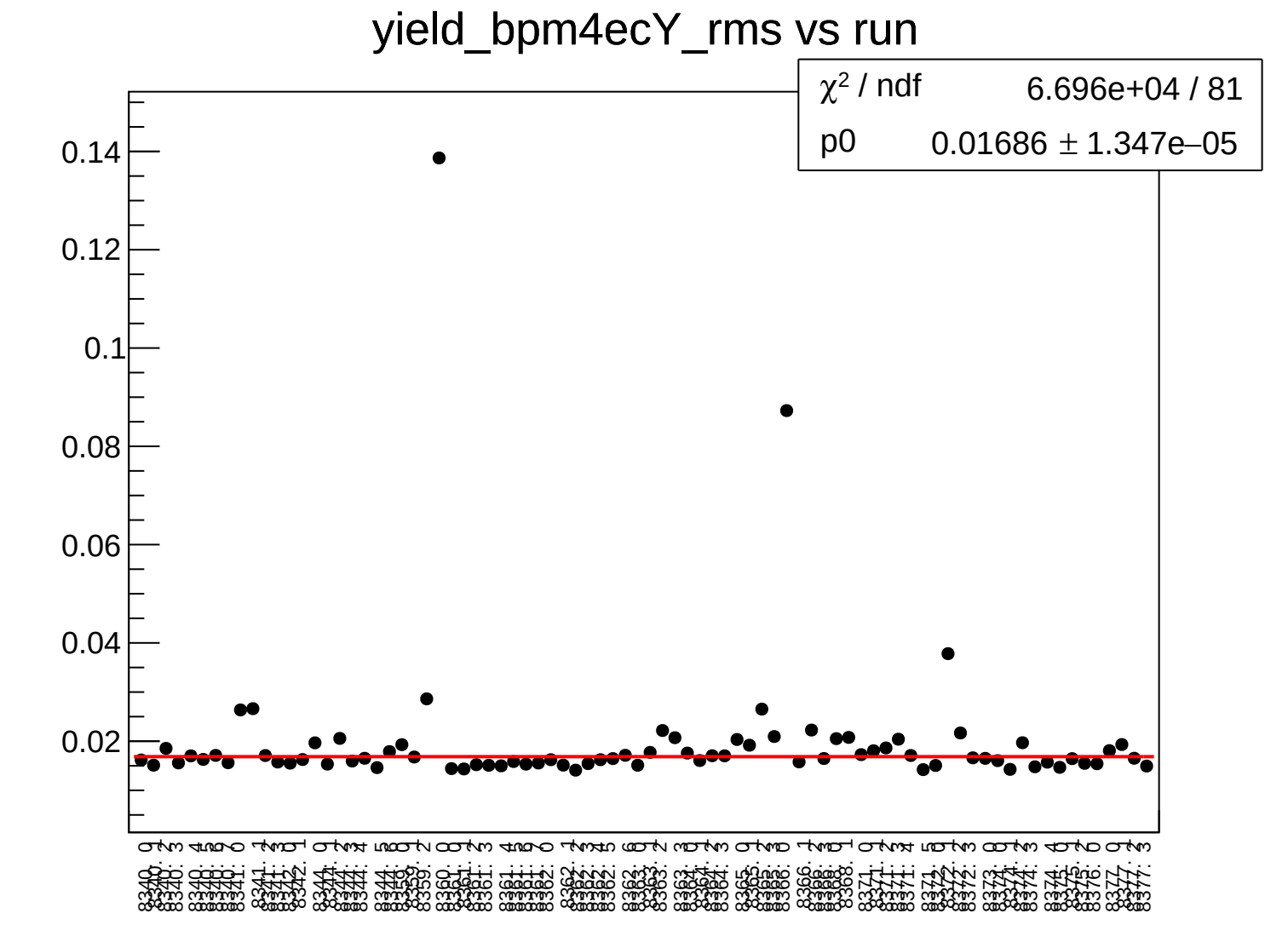

yield_bpm4ecX_mean vs run
χ² / ndf 6.355e+06 / 81
p0 −0.3537 ± 5.315e−05
pull
Entries 82
Mean −287.6
Std Dev 332.5

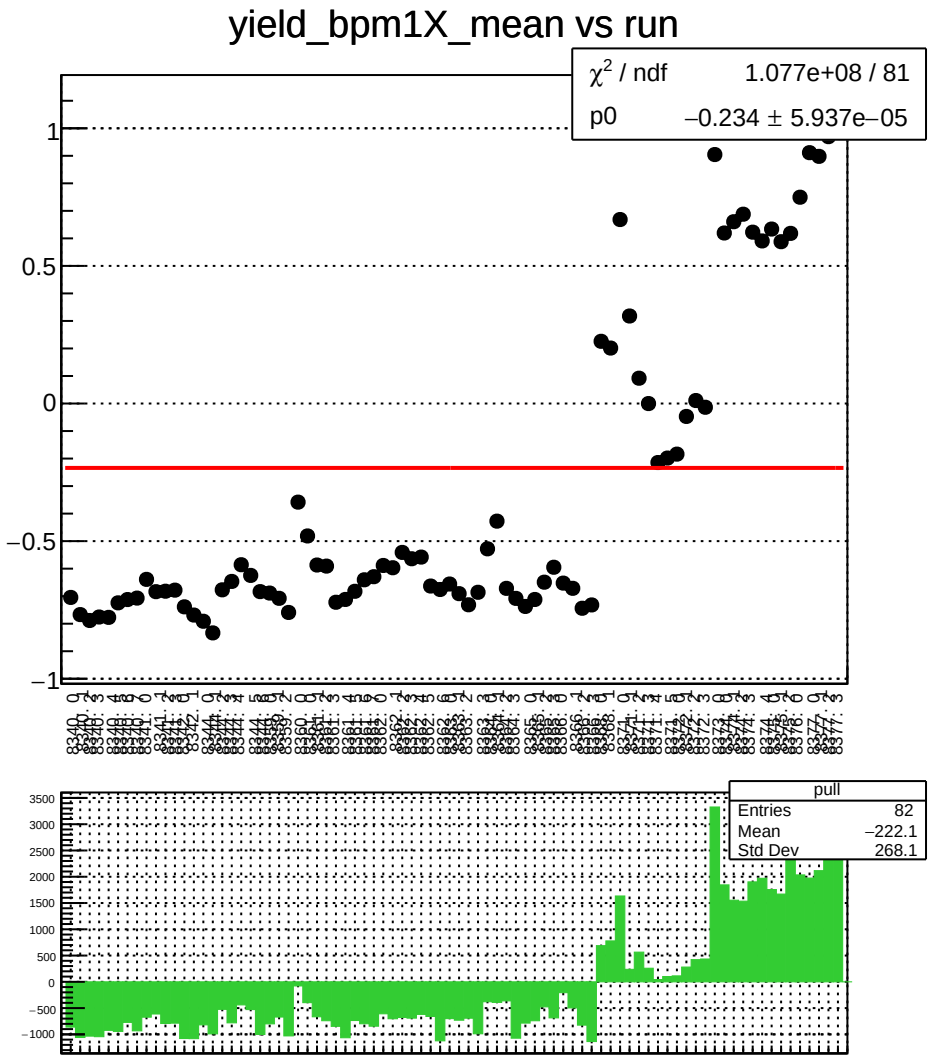

pull1D
Entries 82
Mean 0
Std Dev 0

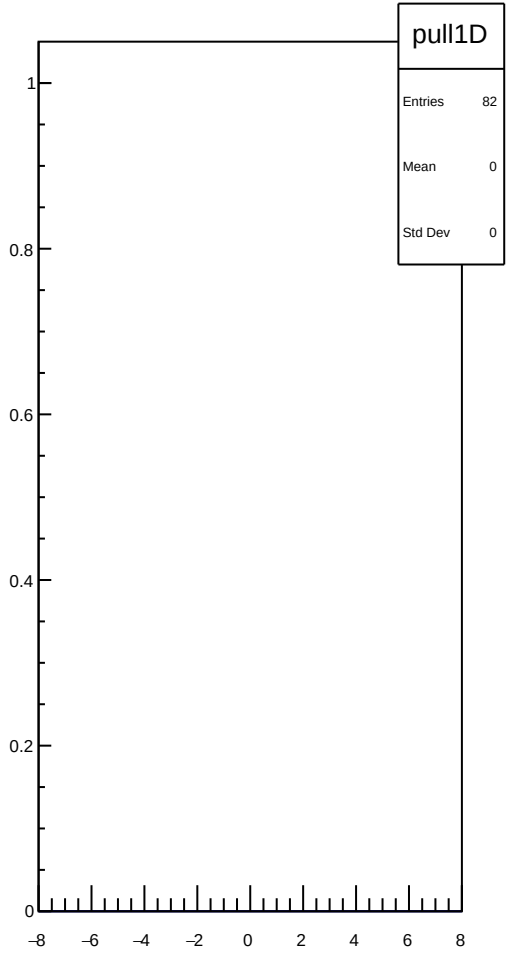

yield_bpm4ecX_rms vs run
χ² / ndf 3.628e+04 / 81
p0 0.04749 ± 3.758e–05
0.14
0.12
0.1
0.08
0.06
0.04

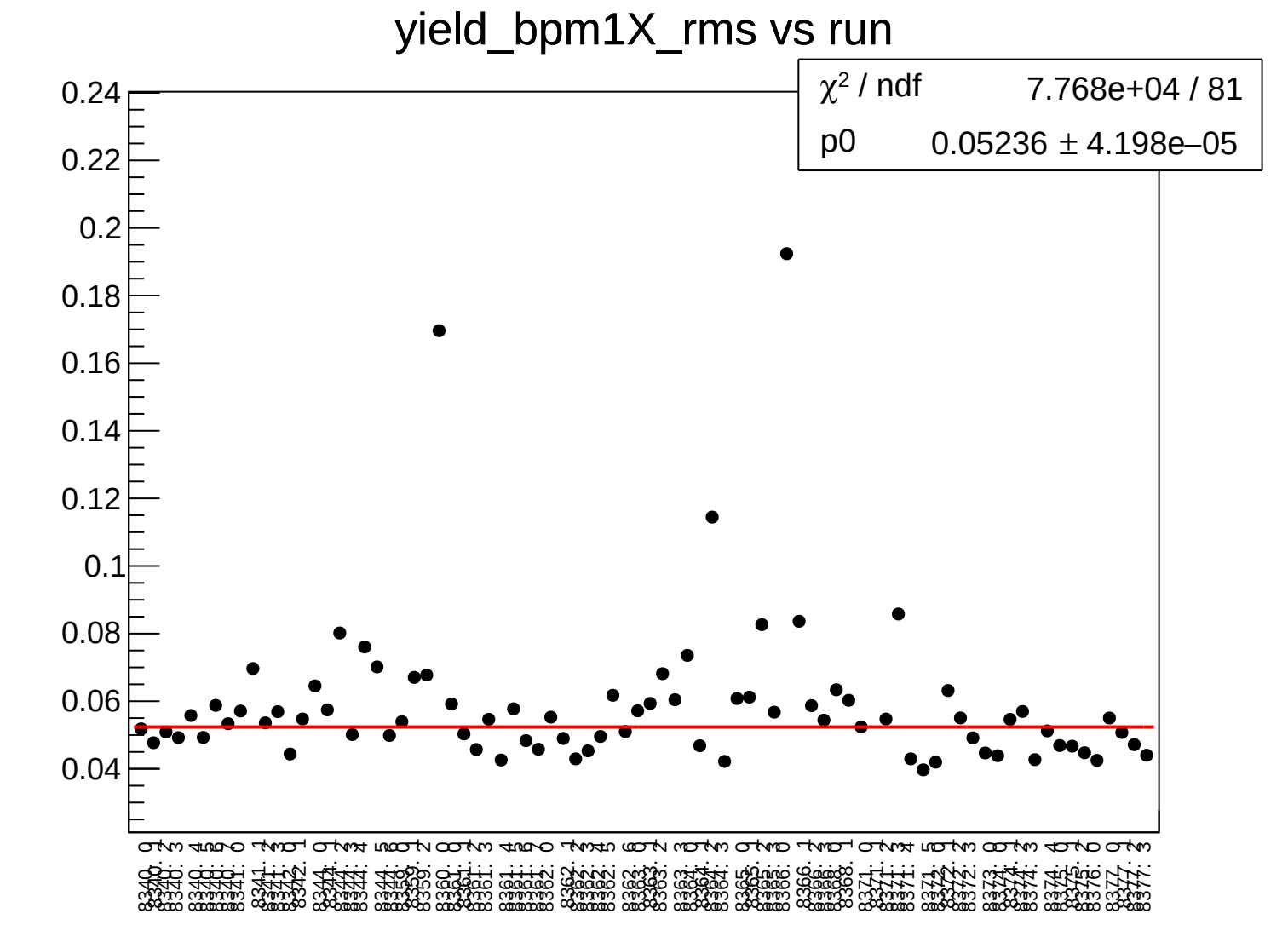

yield_bpm4ecY_mean vs run
χ² / ndf 4.456e+06 / 81
p0 −0.141 ± 1.905e−05
pull
Entries 82
Mean −653.8
Std Dev 699.8

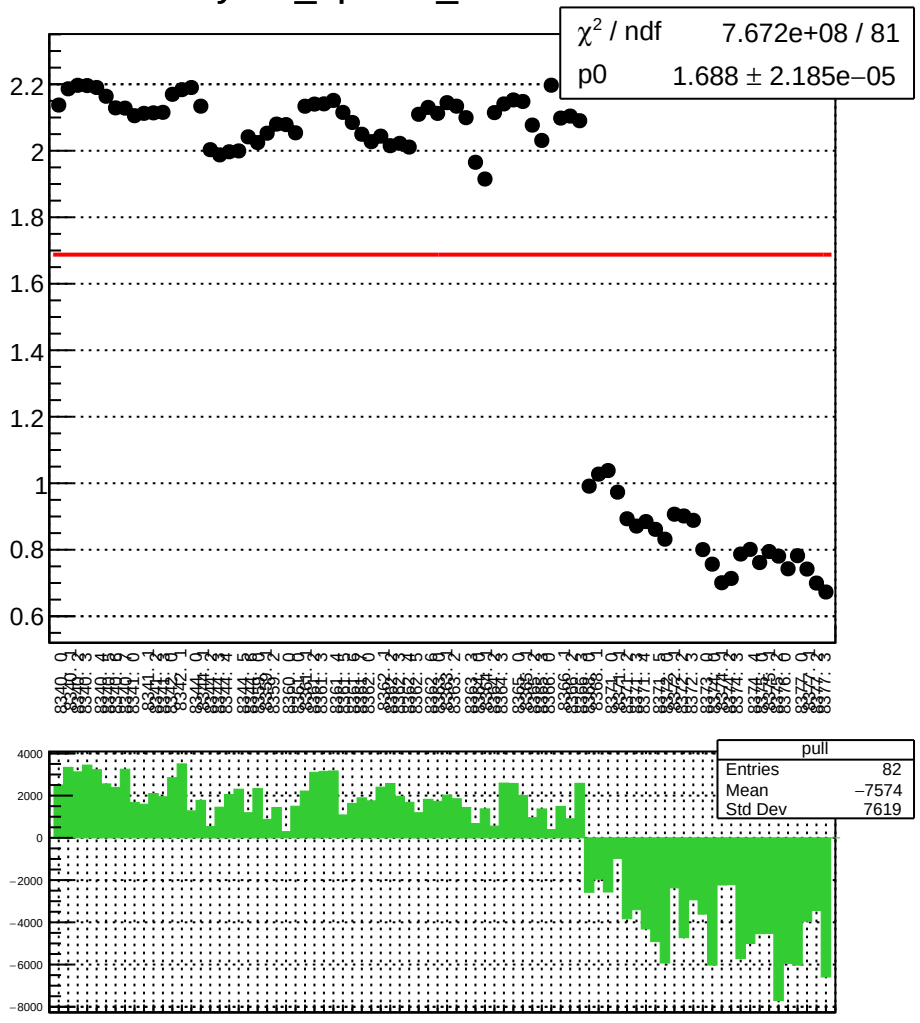

pull1D
Entries 82
Mean 0
Std Dev 0

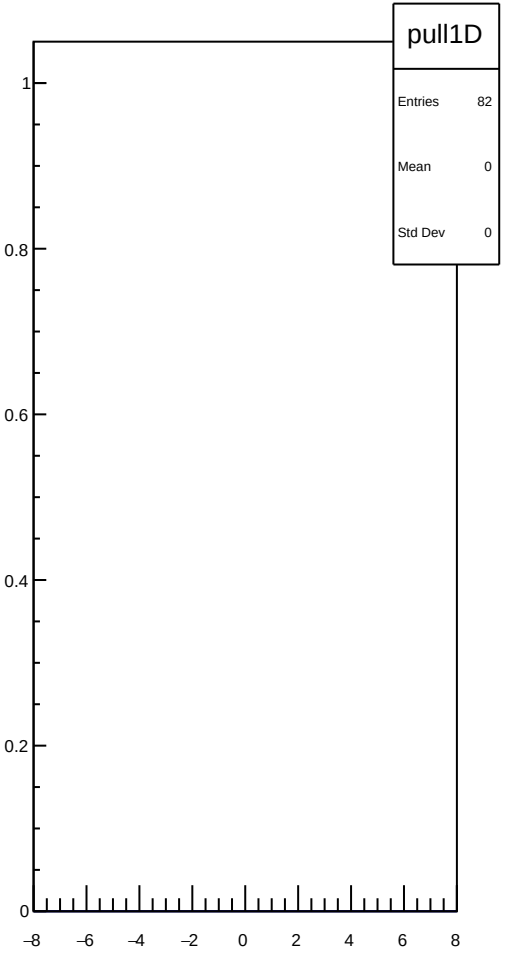

yield_bpm4ecY_rms vs run
χ² / ndf 6.696e+04 / 81
p0 0.01686 ± 1.347e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

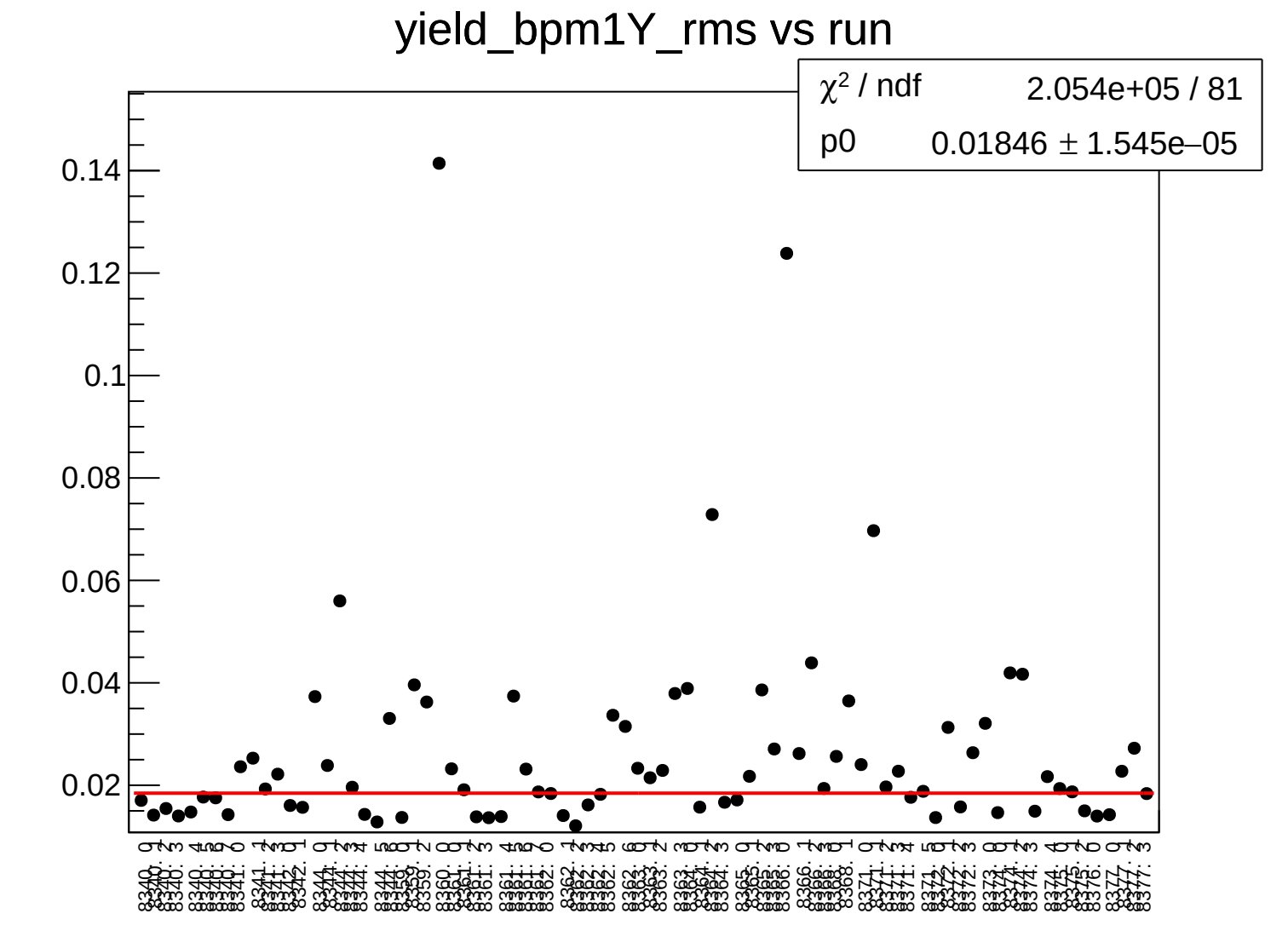

yield_bpm1X_mean vs run
χ² / ndf 1.077e+08 / 81
p0 −0.234 ± 5.937e−05
pull
Entries 82
Mean −222.1
Std Dev 268.1

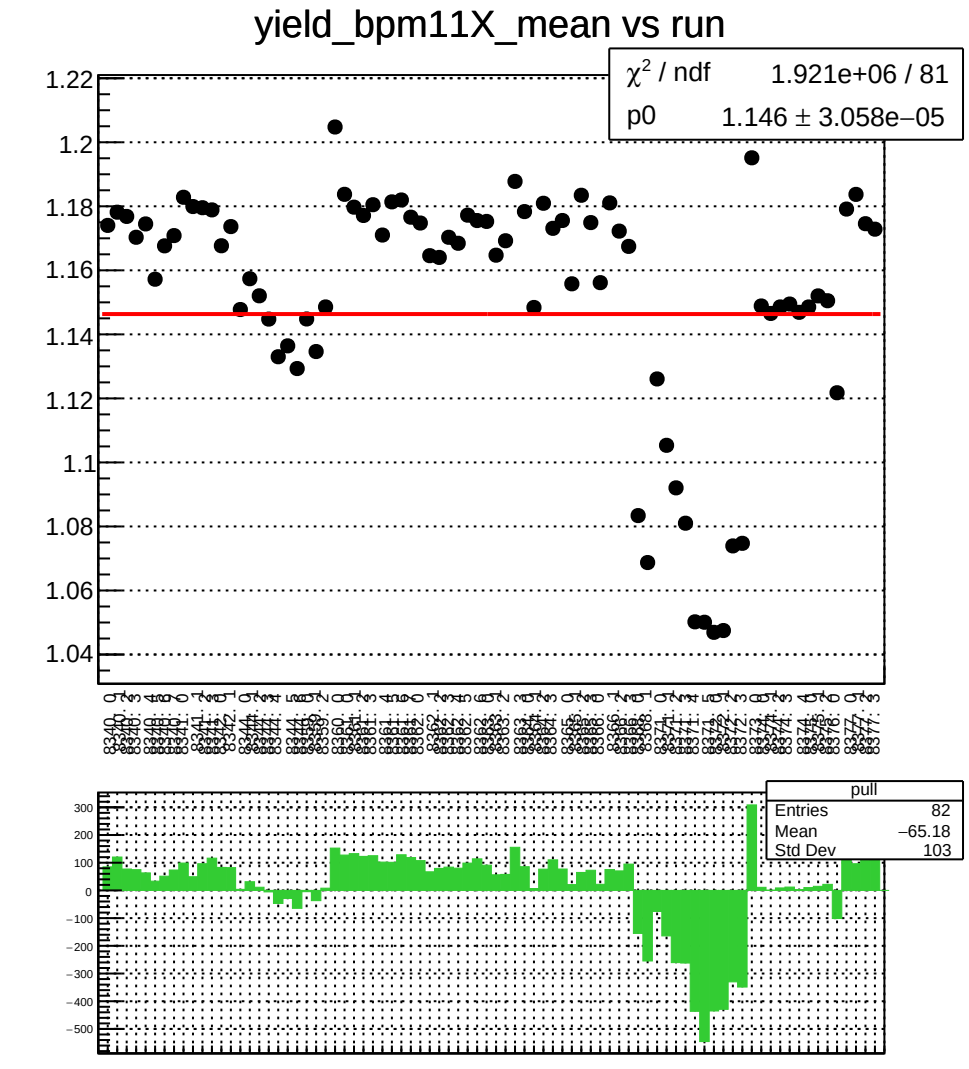

pull1D
Entries 82
Mean 0
Std Dev 0

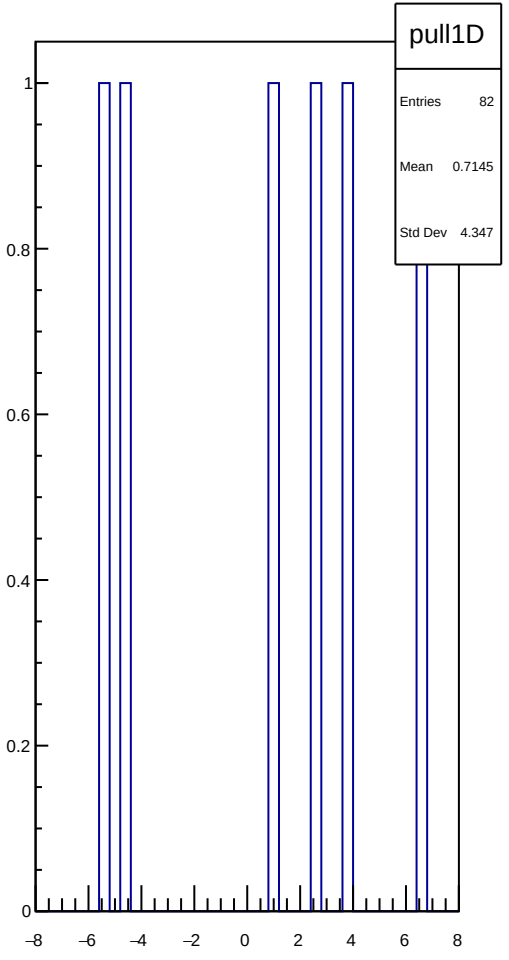

yield_bpm1X_rms vs run
χ² / ndf 7.768e+04 / 81
p0 0.05236 ± 4.198e–05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

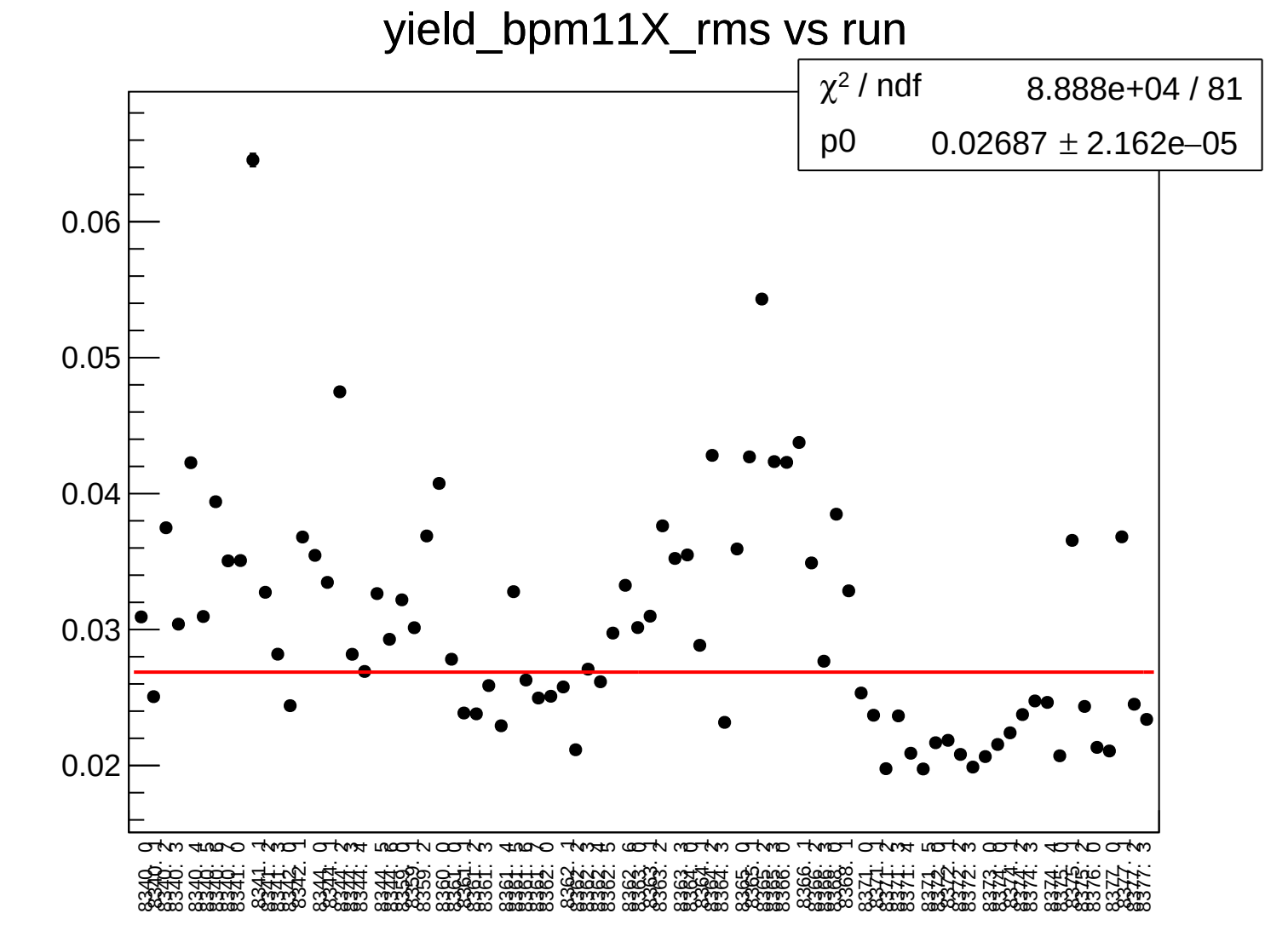

yield_bpm1Y_mean vs run
χ² / ndf 7.672e+08 / 81
p0 1.688 ± 2.185e−05
pull
Entries 82
Mean −7574
Std Dev 7619

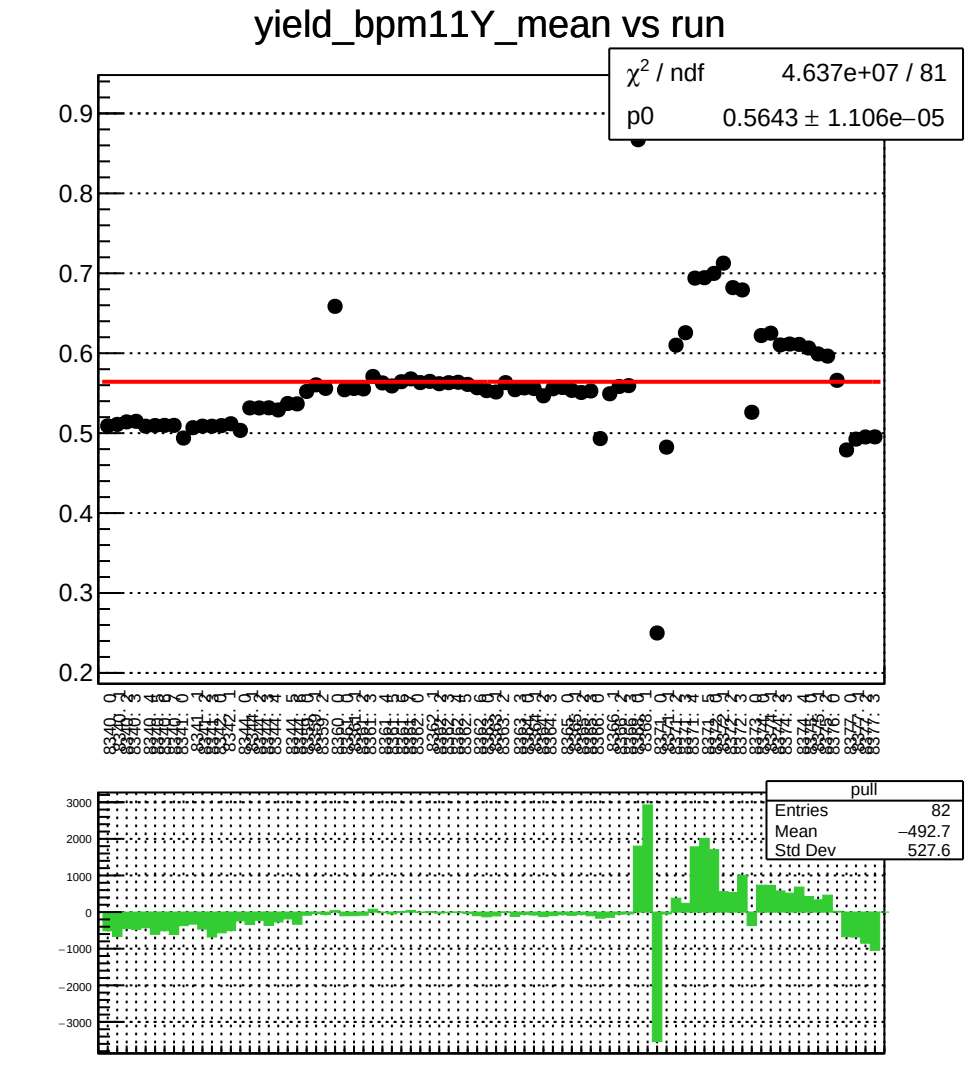

pull1D
Entries 82
Mean 0
Std Dev 0

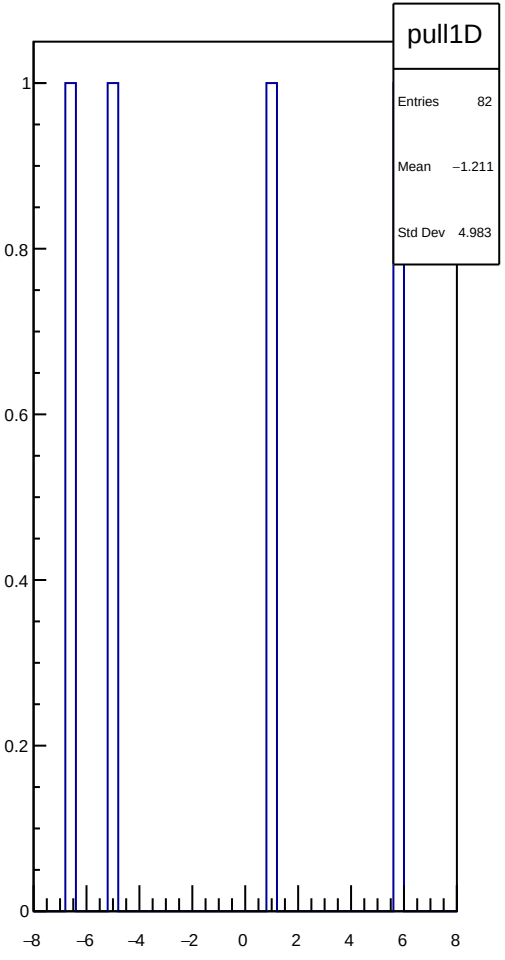

yield_bpm1Y_rms vs run
χ² / ndf 2.054e+05 / 81
p0 0.01846 ± 1.545e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

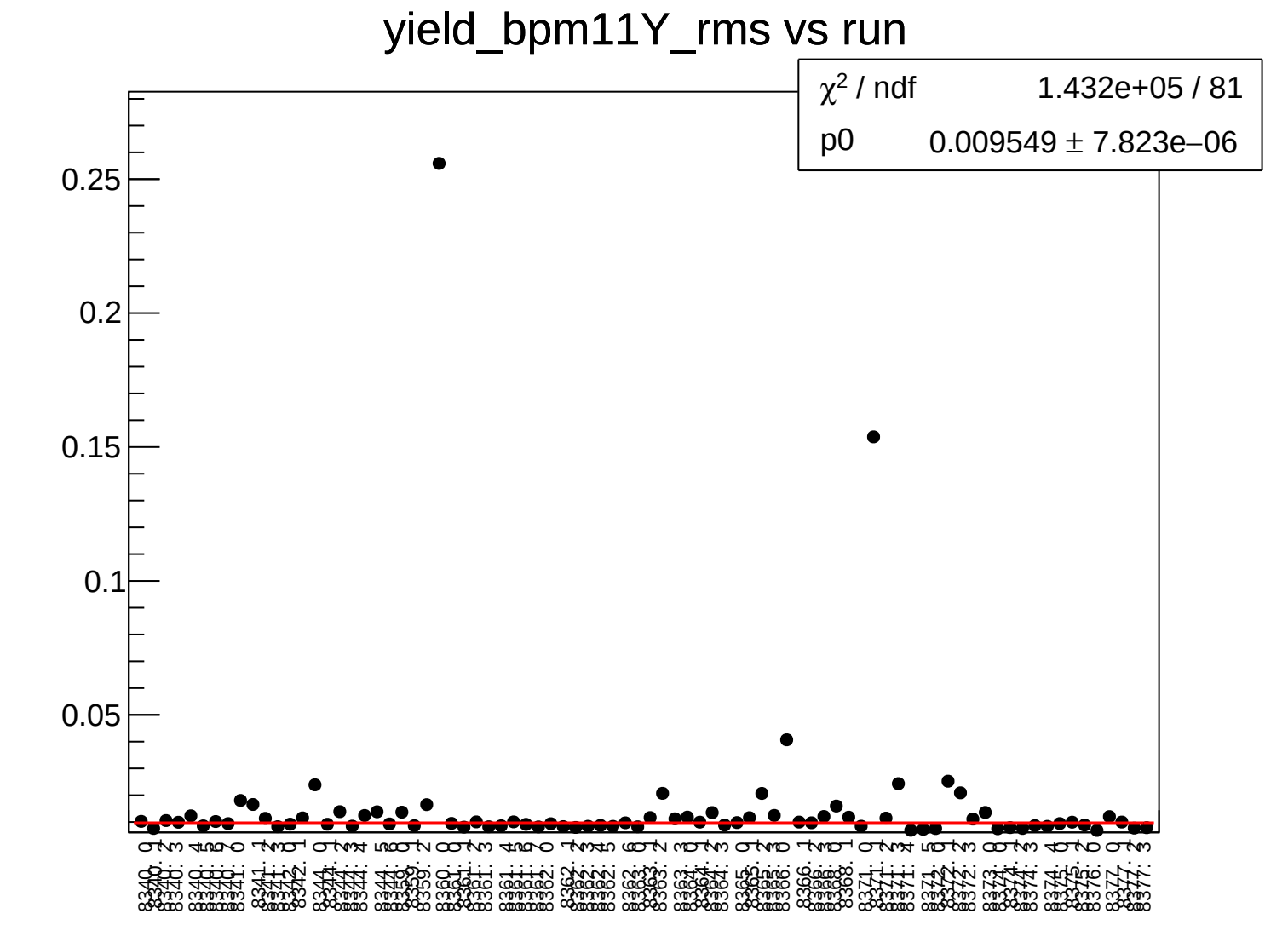

yield_bpm11X_mean vs run
χ² / ndf 1.921e+06 / 81
p0 1.146 ± 3.058e−05
pull
Entries 82
Mean −65.18
Std Dev 103

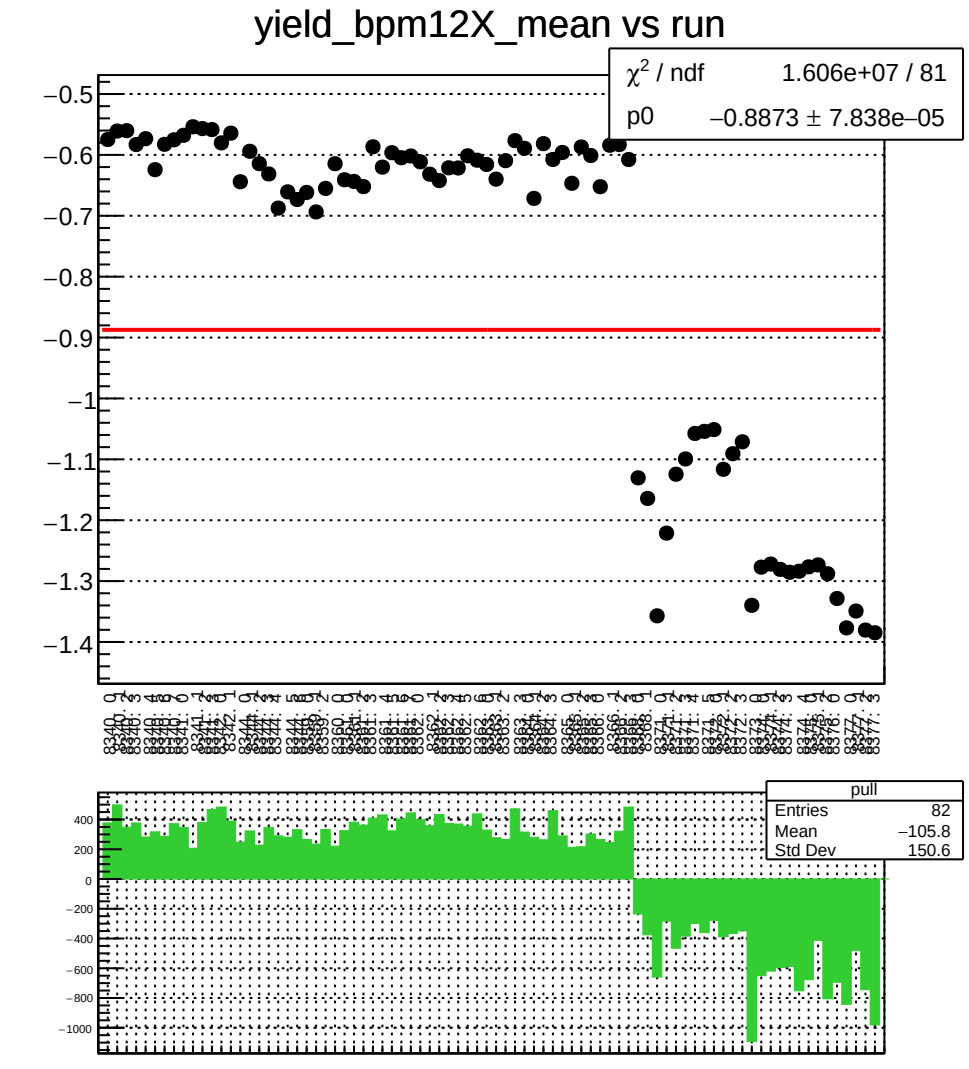

pull1D
Entries 82
Mean 0.7145
Std Dev 4.347

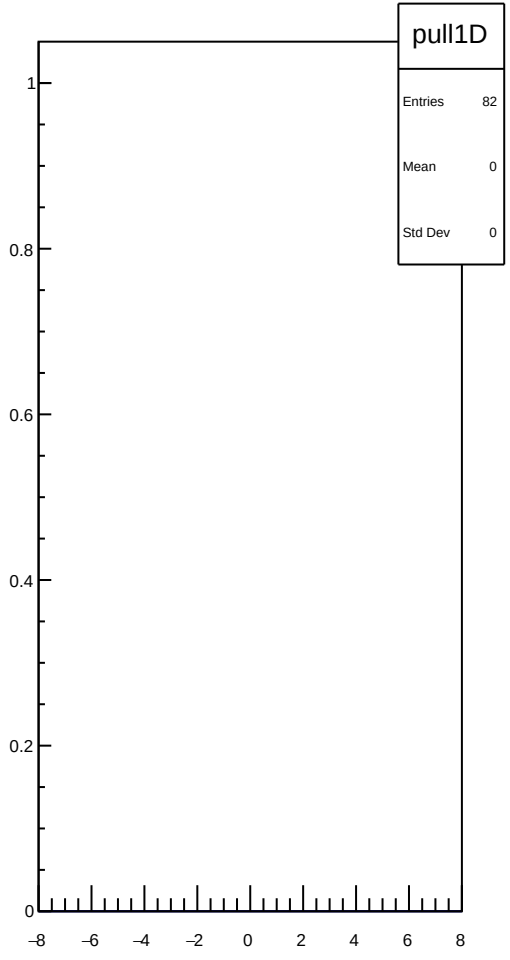

yield_bpm11X_rms vs run
χ² / ndf 8.888e+04 / 81
p0 0.02687 ± 2.162e–05
0.06
0.05
0.04
0.03
0.02

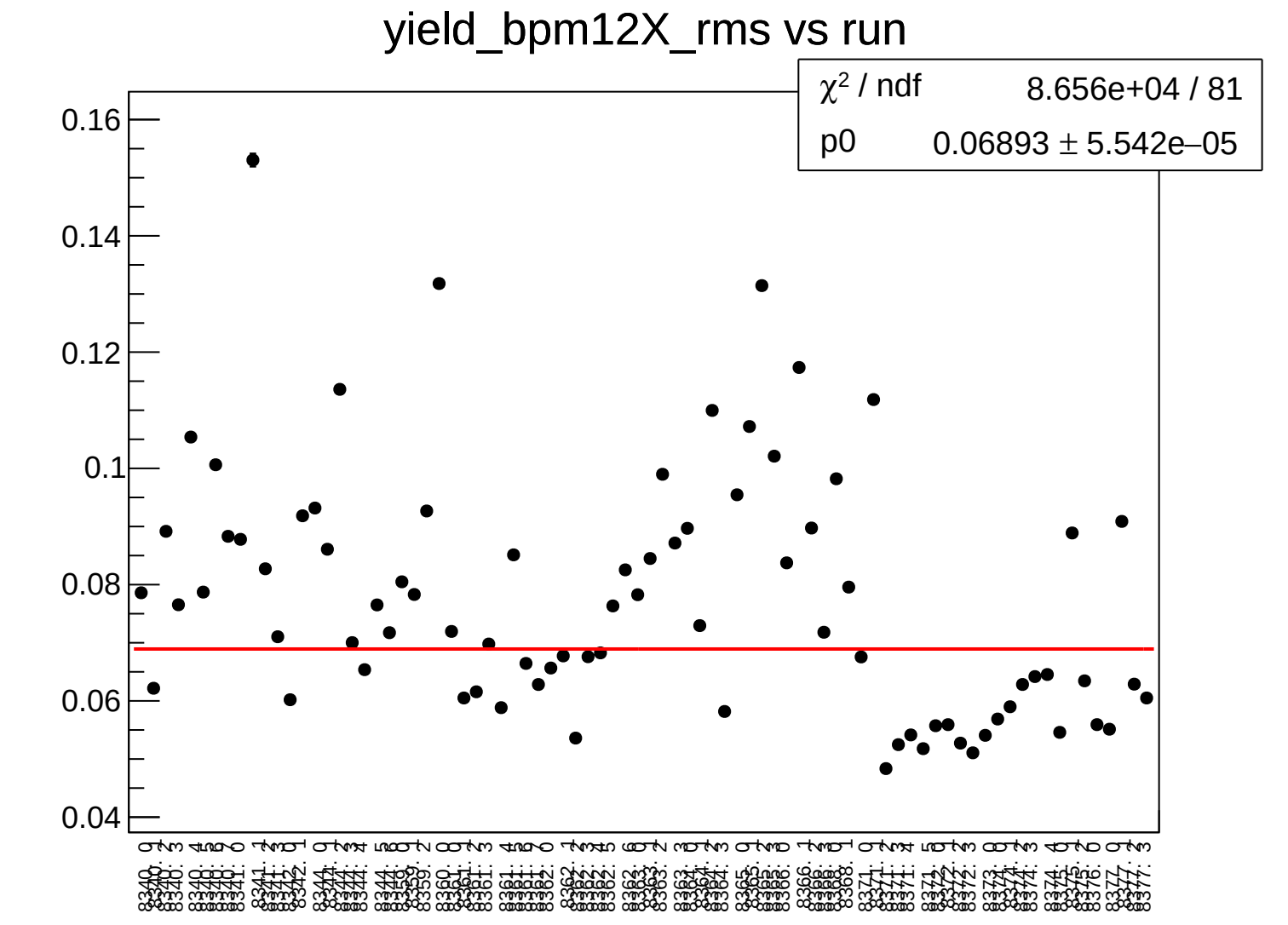

yield_bpm11Y_mean vs run
χ² / ndf 4.637e+07 / 81
p0 0.5643 ± 1.106e−05
pull
Entries 82
Mean −492.7
Std Dev 527.6

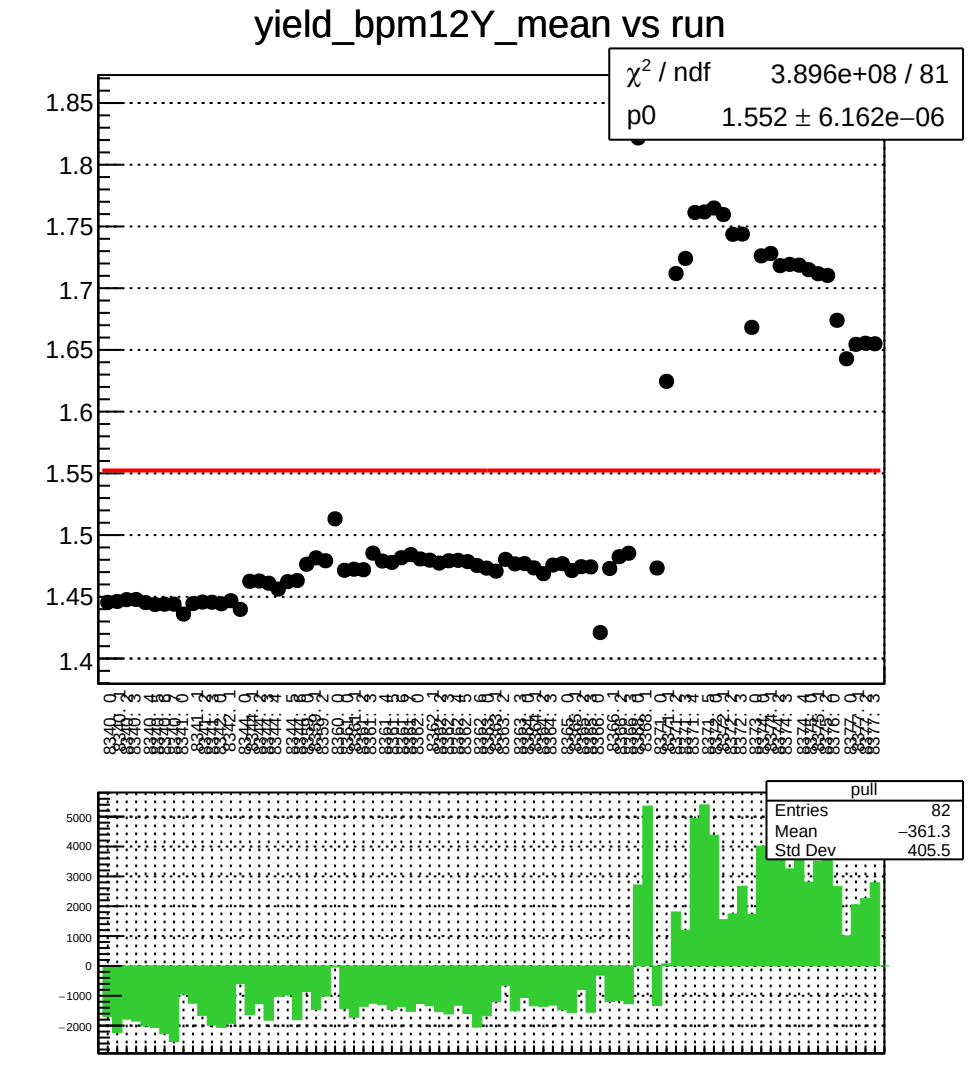

pull1D
Entries 82
Mean −1.211
Std Dev 4.983

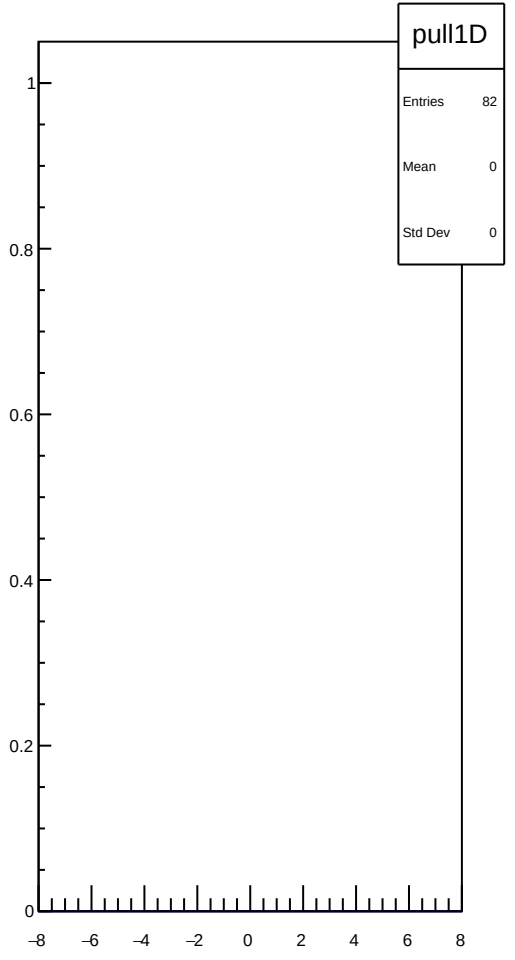

yield_bpm11Y_rms vs run
χ² / ndf 1.432e+05 / 81
p0 0.009549 ± 7.823e−06
0.25
0.2
0.15
0.1
0.05

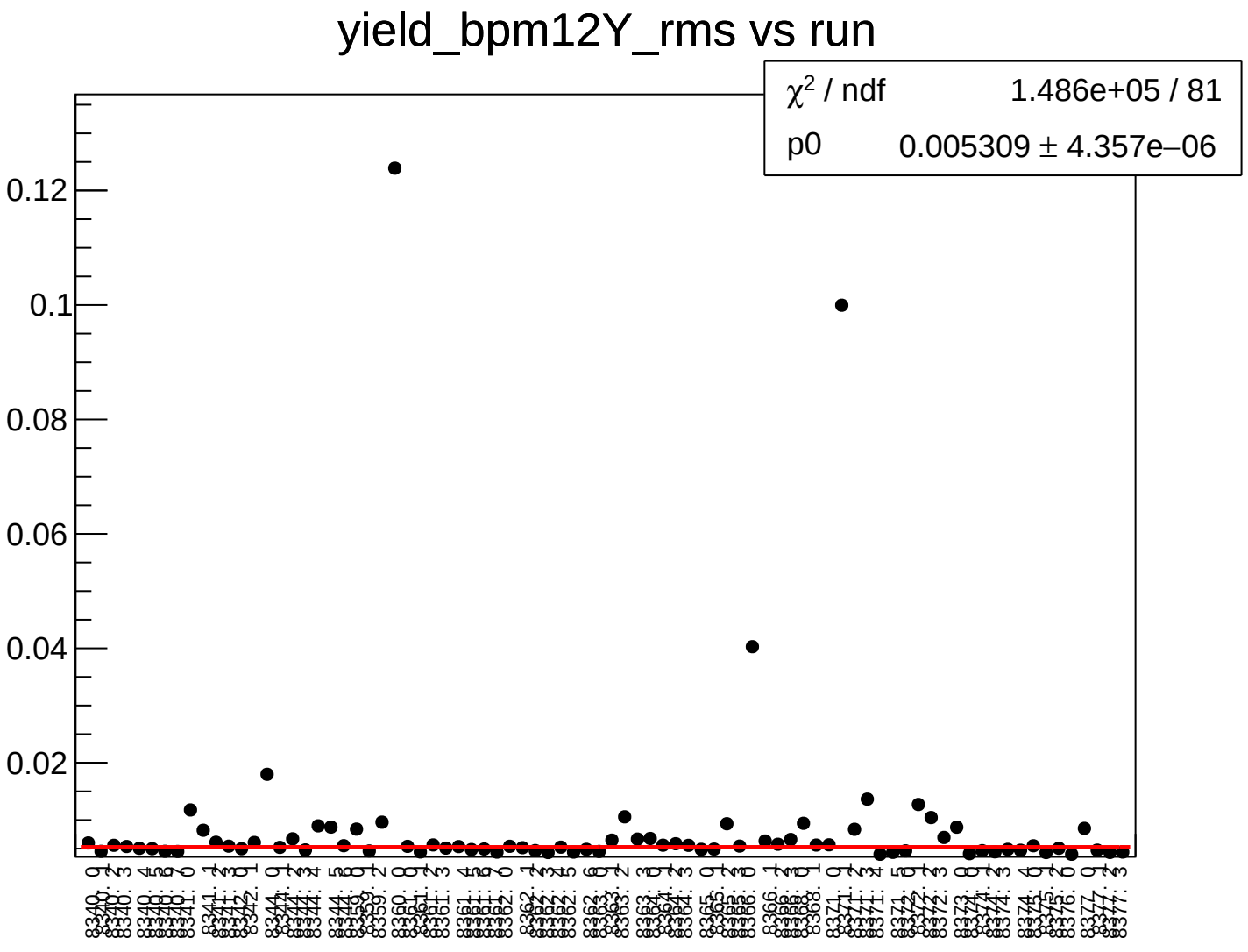

yield_bpm12X_mean vs run
χ² / ndf 1.606e+07 / 81
p0 −0.8873 ± 7.838e−05
pull
Entries 82
Mean −105.8
Std Dev 150.6

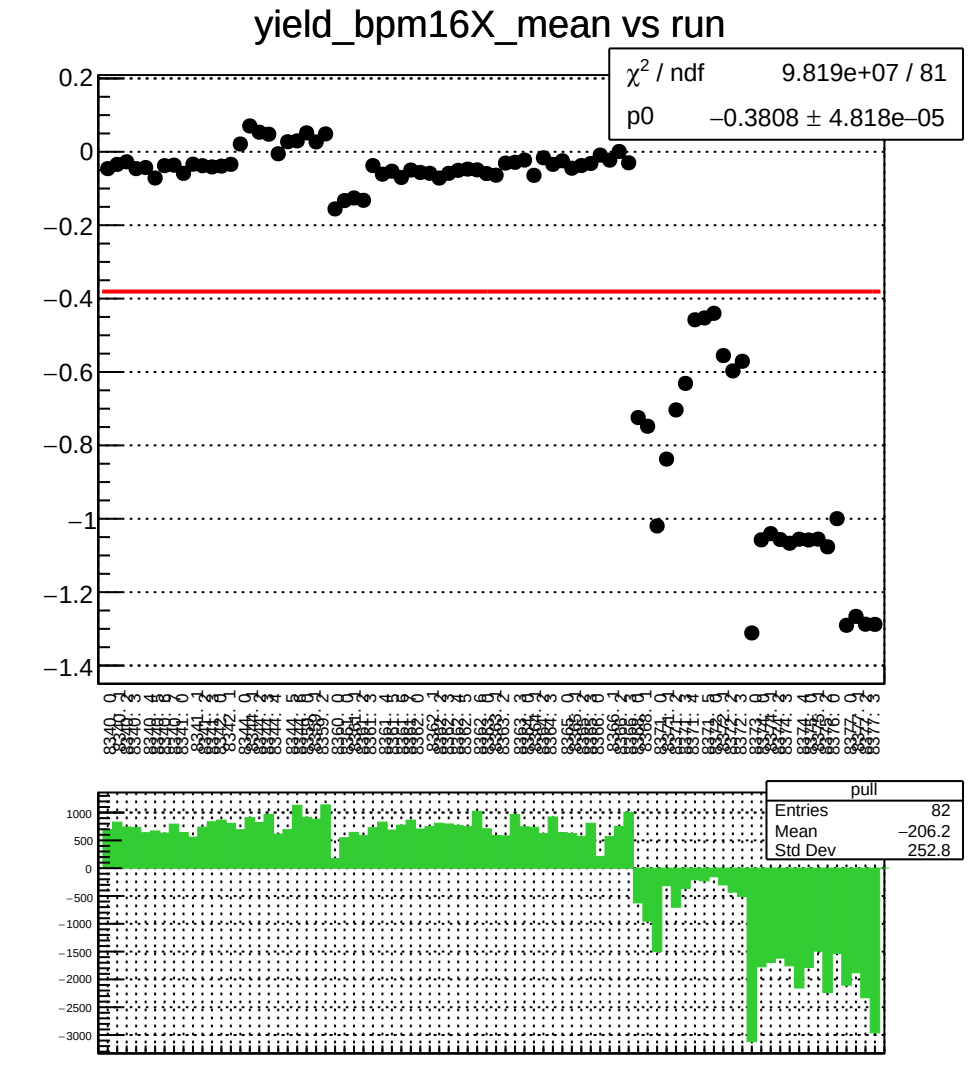

pull1D
Entries 82
Mean 0
Std Dev 0

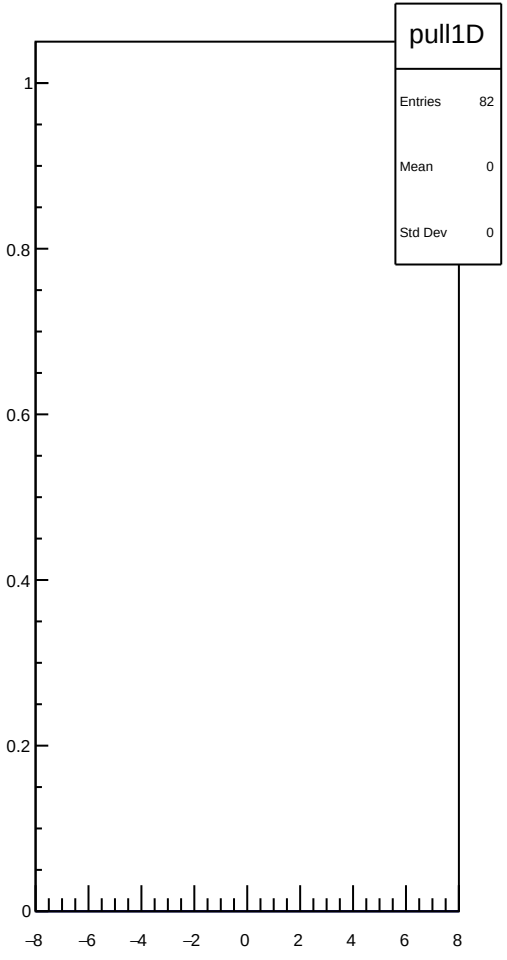

yield_bpm12X_rms vs run
χ² / ndf 8.656e+04 / 81
p0 0.06893 ± 5.542e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

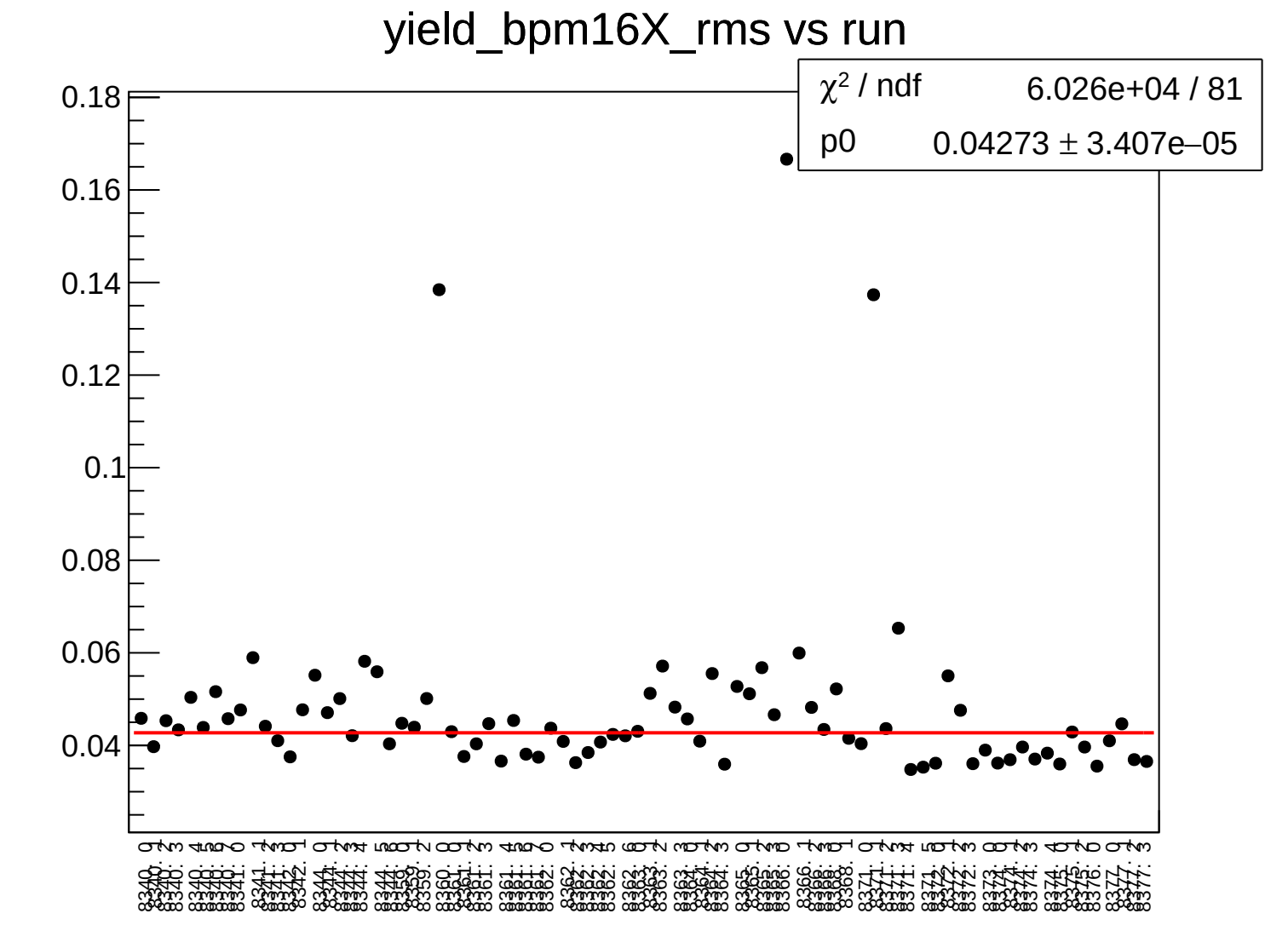

yield_bpm12Y_mean vs run
χ² / ndf 3.896e+08 / 81
p0 1.552 ± 6.162e−06
pull
Entries 82
Mean −361.3
Std Dev 405.5

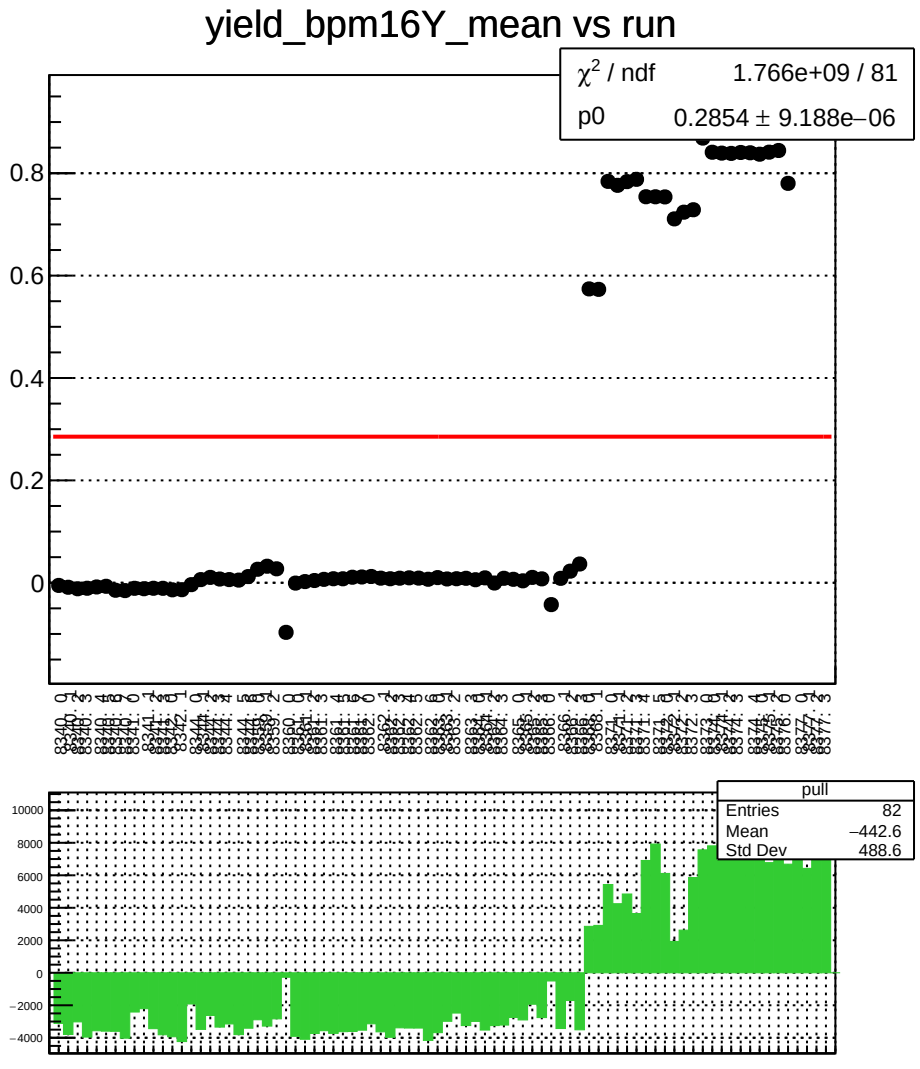

pull1D
Entries 82
Mean 0
Std Dev 0

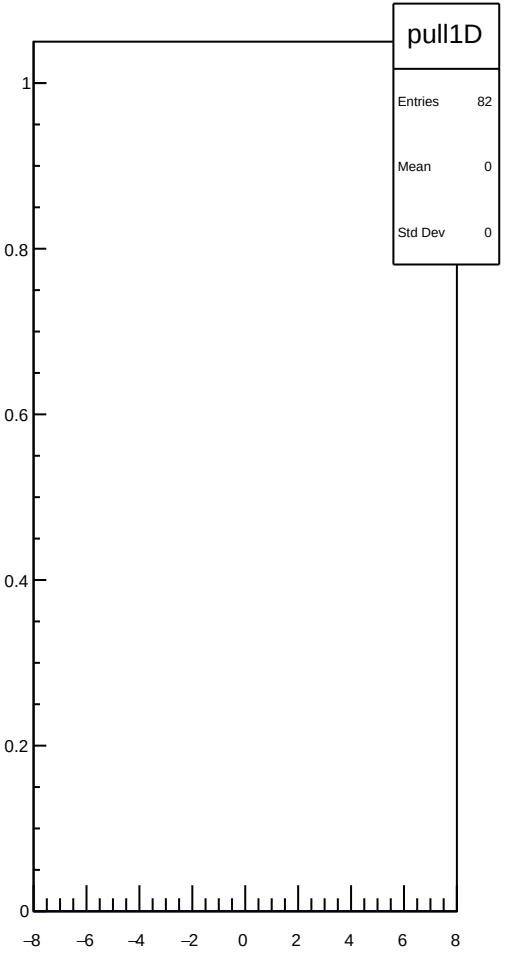

yield_bpm12Y_rms vs run
χ² / ndf 1.486e+05 / 81
p0 0.005309 ± 4.357e−06
0.12
0.1
0.08
0.06
0.04
0.02

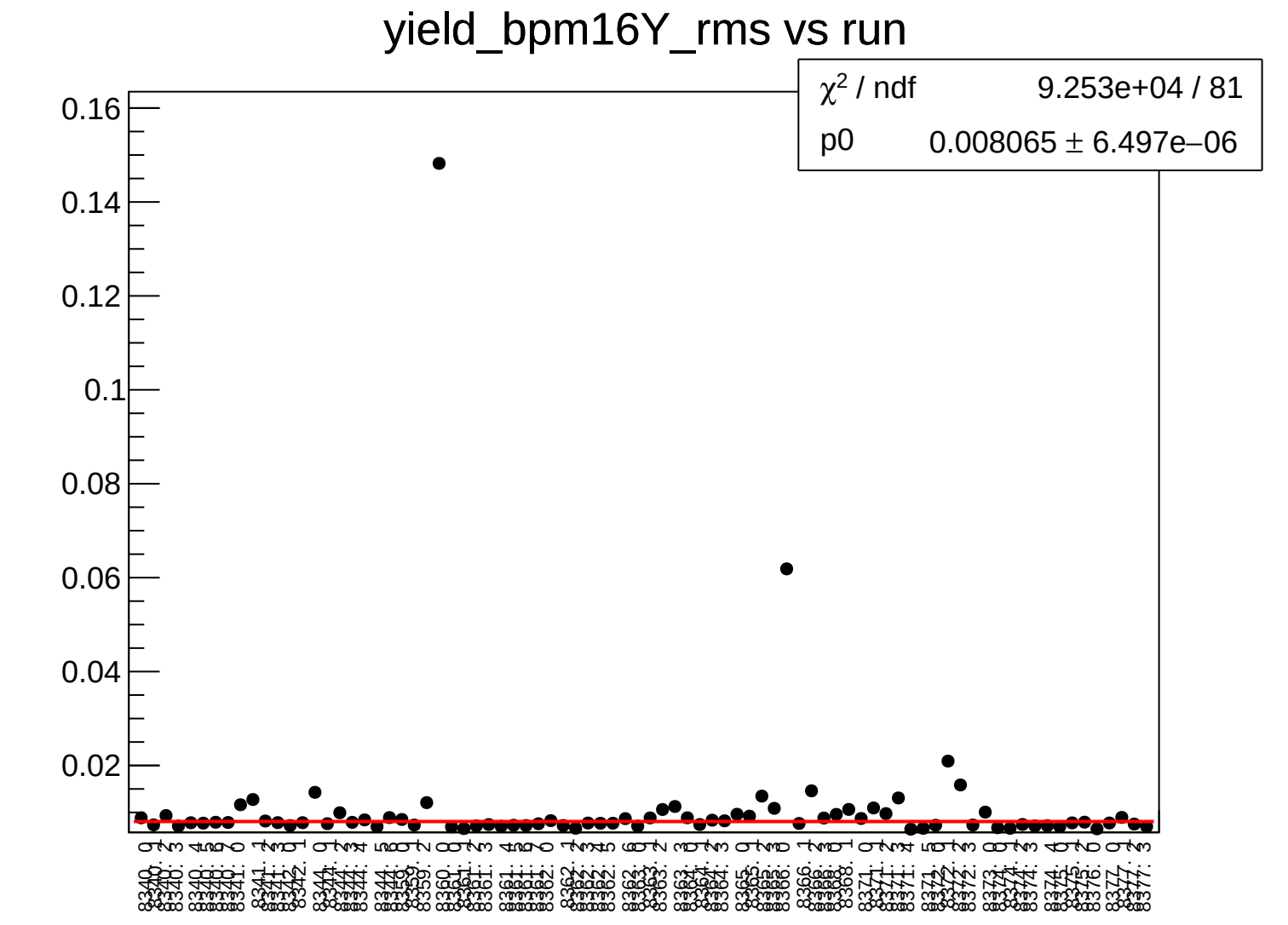

yield_bpm16X_mean vs run
χ² / ndf 9.819e+07 / 81
p0 −0.3808 ± 4.818e−05
pull
Entries 82
Mean −206.2
Std Dev 252.8

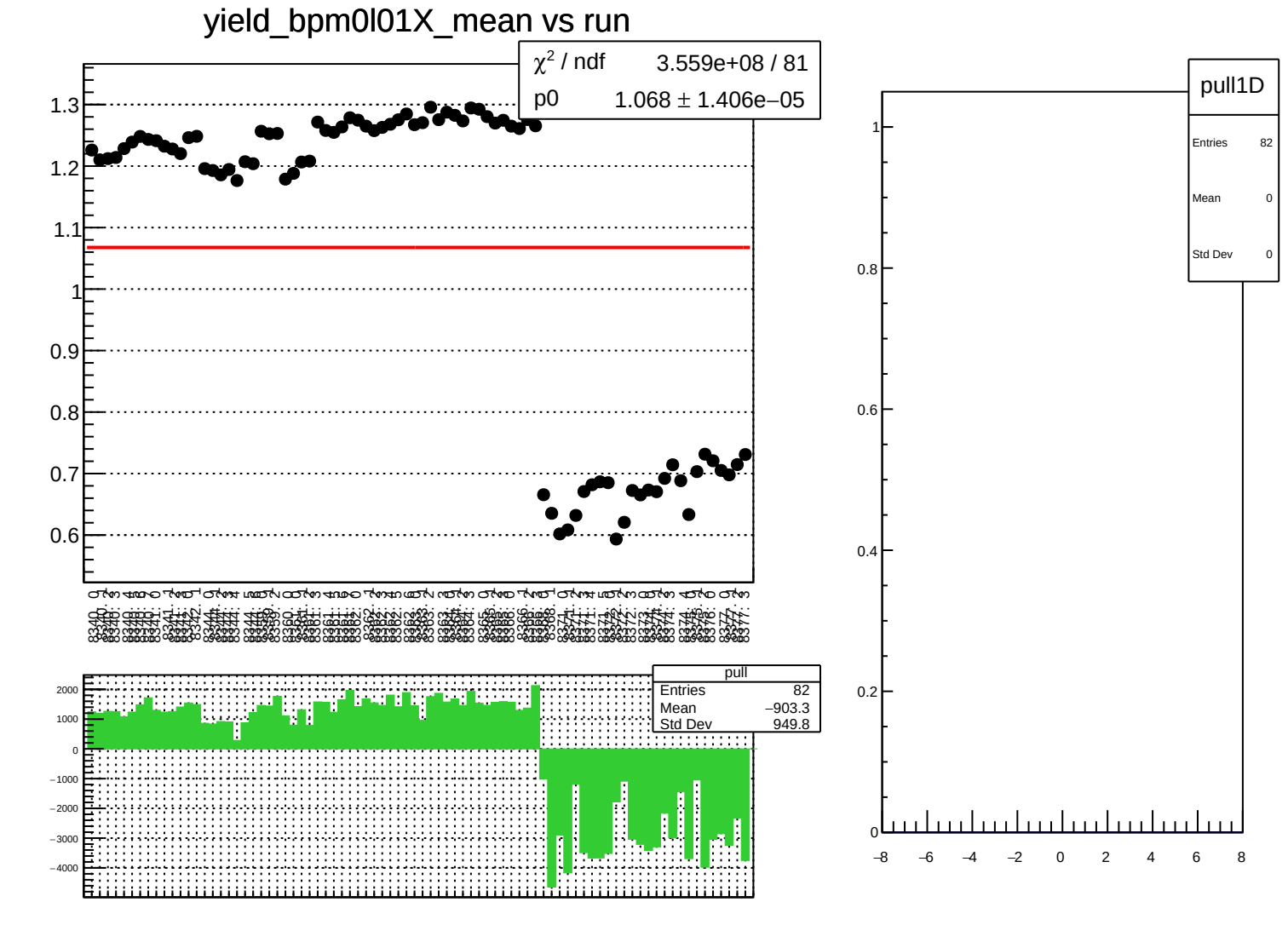

pull1D
Entries 82
Mean 0
Std Dev 0

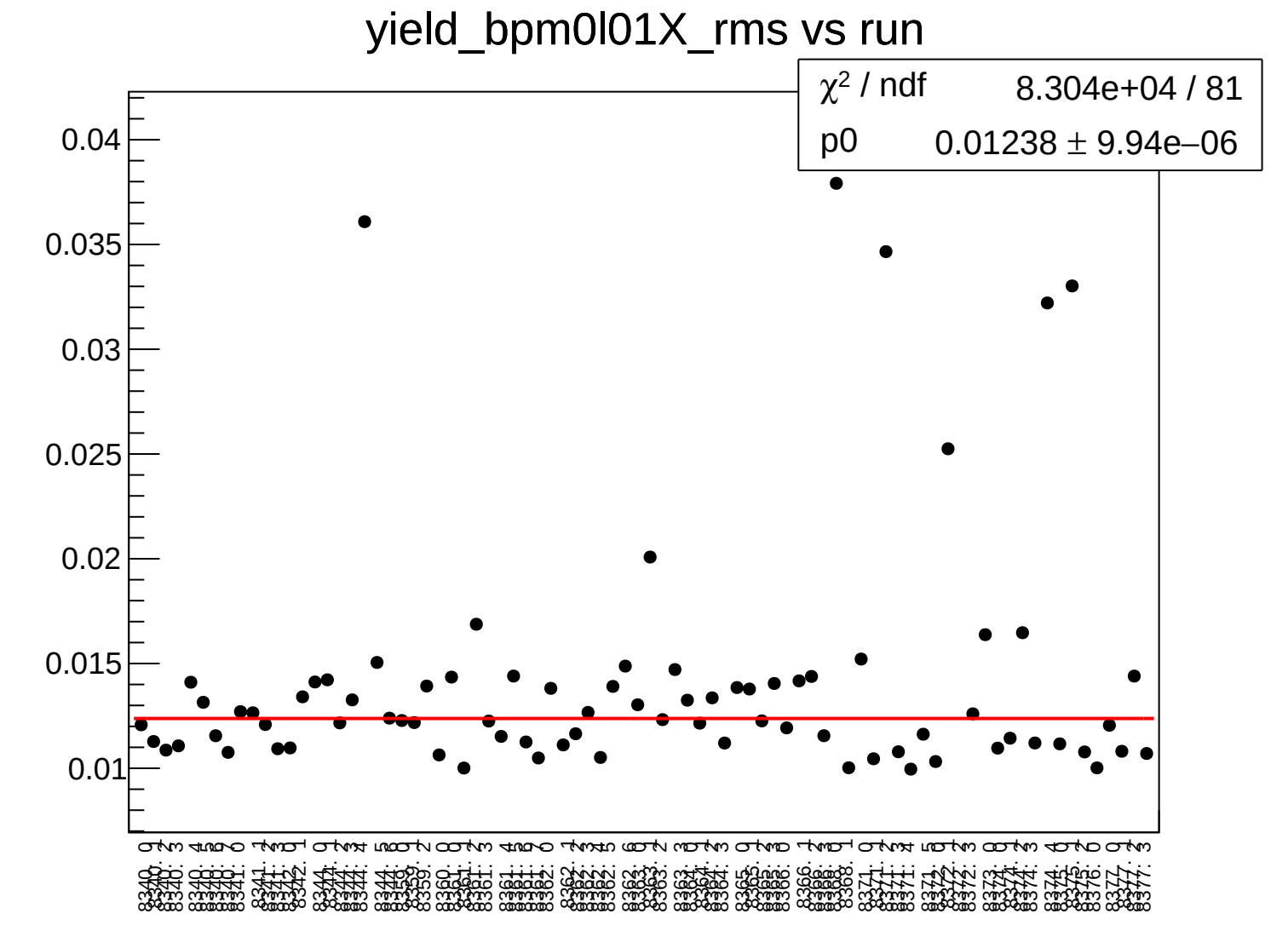

yield_bpm16X_rms vs run
χ² / ndf 6.026e+04 / 81
p0 0.04273 ± 3.407e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

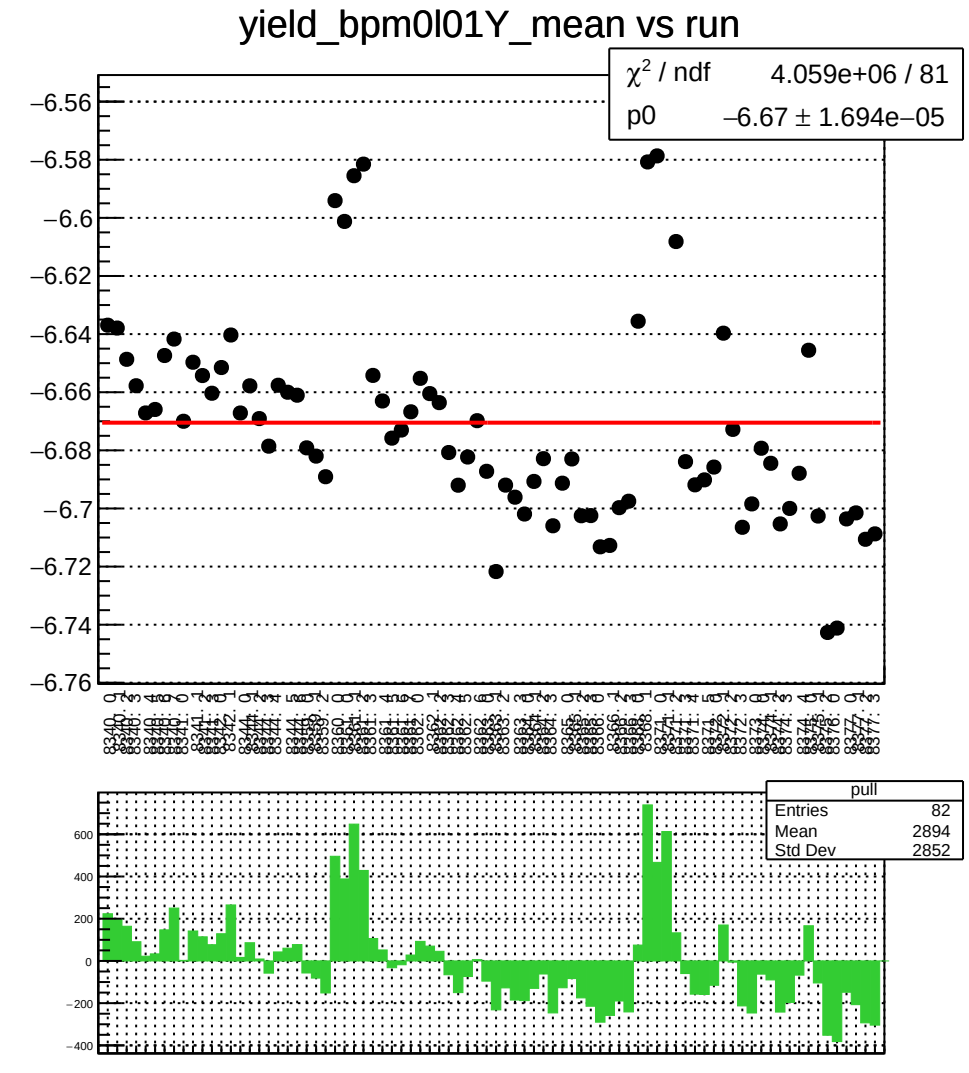

yield_bpm16Y_mean vs run
χ² / ndf 1.766e+09 / 81
p0 0.2854 ± 9.188e−06
pull
Entries 82
Mean −442.6
Std Dev 488.6

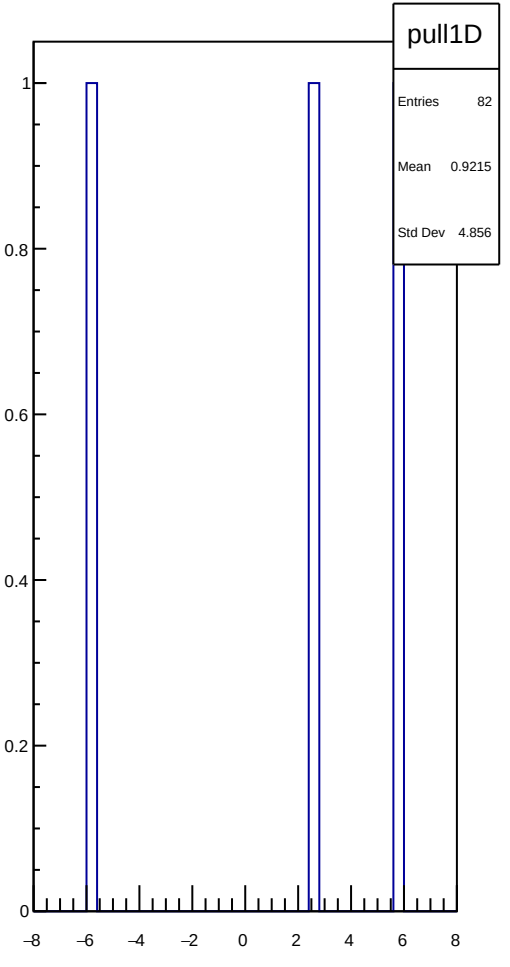

pull1D
Entries 82
Mean 0
Std Dev 0

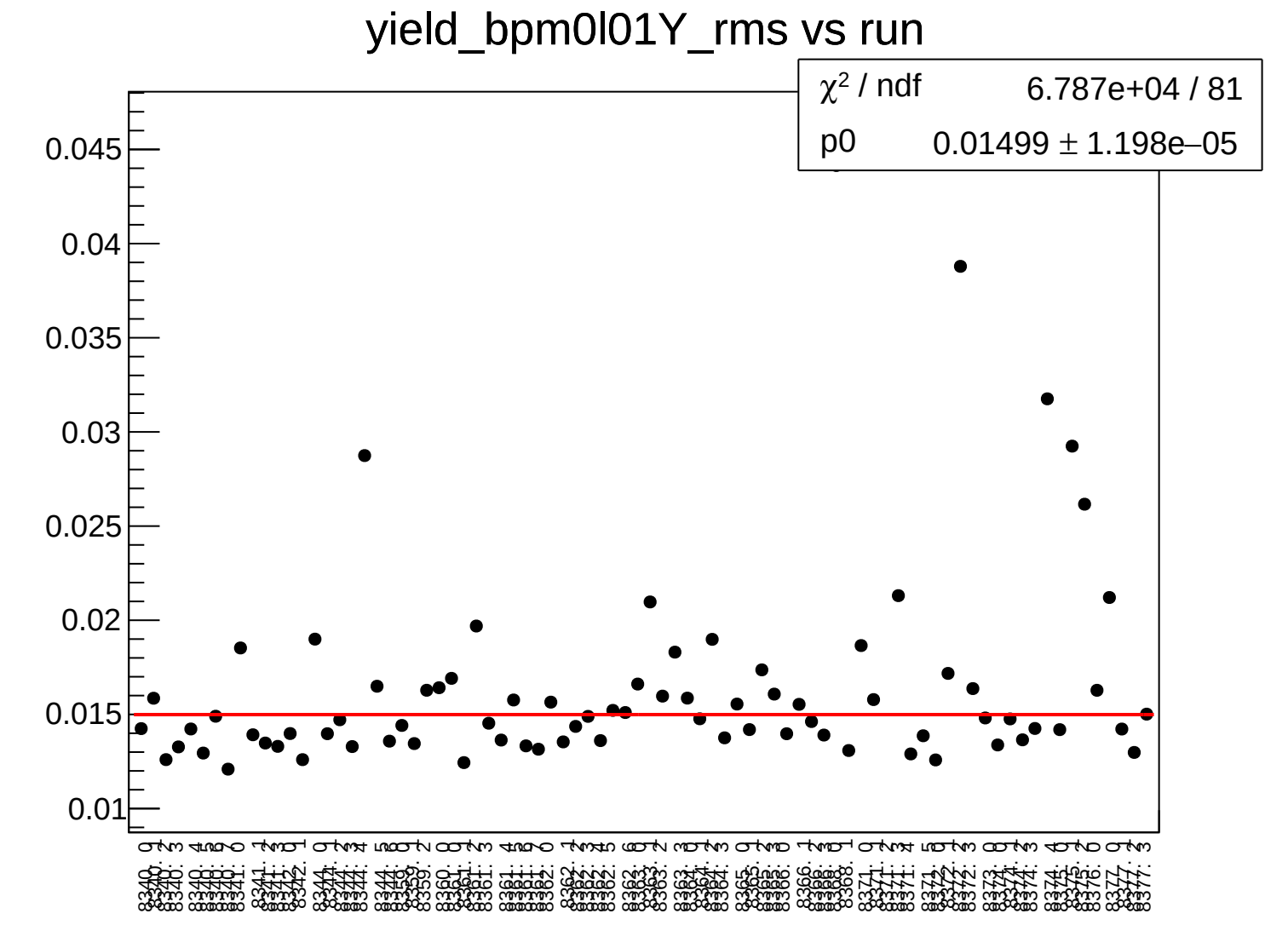

yield_bpm16Y_rms vs run
χ² / ndf 9.253e+04 / 81
p0 0.008065 ± 6.497e−06
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

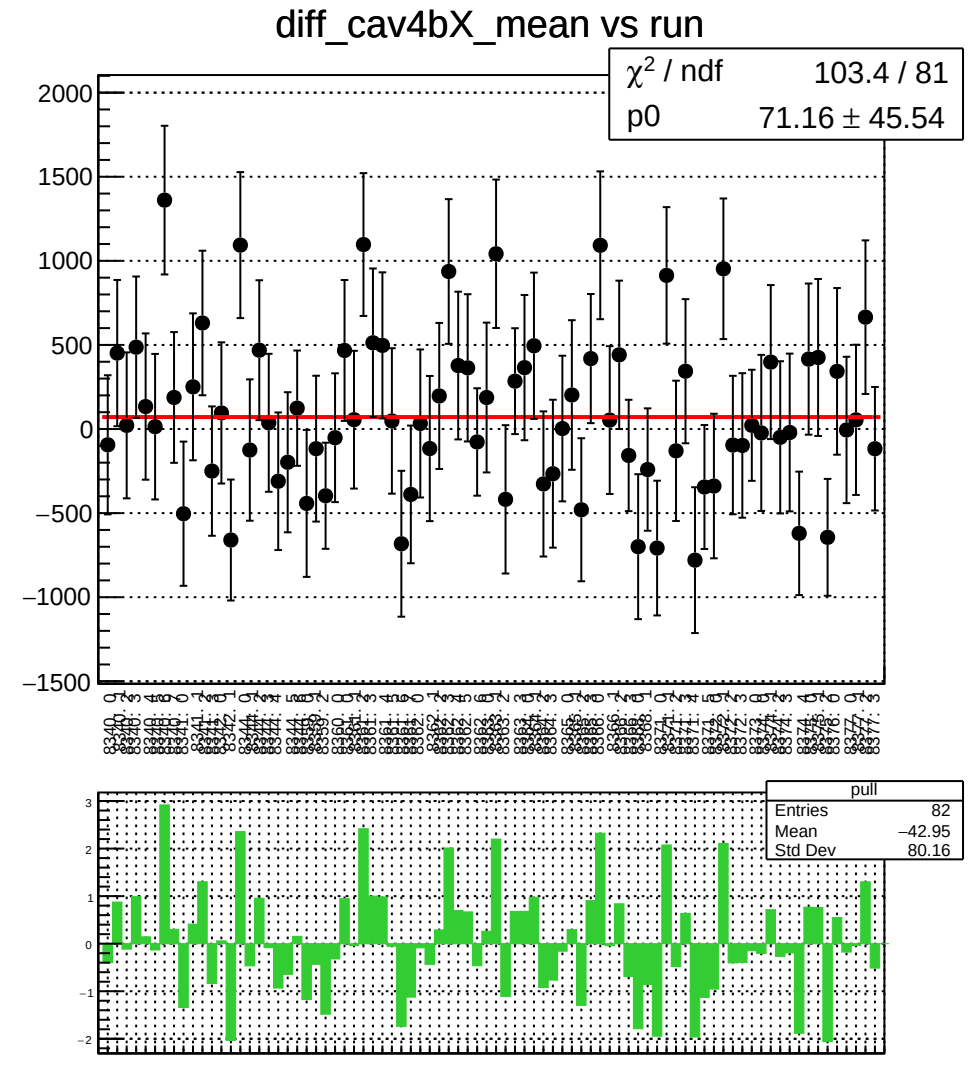

yield_bpm0l01X_mean vs run
χ² / ndf 3.559e+08 / 81
p0 1.068 ± 1.406e−05
pull
Entries 82
Mean −903.3
Std Dev 949.8
pull1D
Entries 82
Mean 0
Std Dev 0

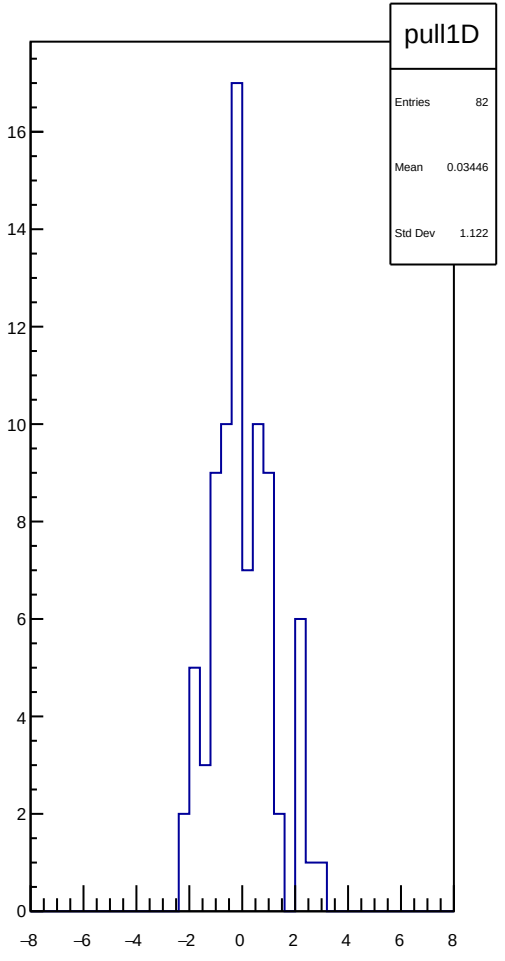

yield_bpm0l01X_rms vs run
χ² / ndf 8.304e+04 / 81
p0 0.01238 ± 9.94e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

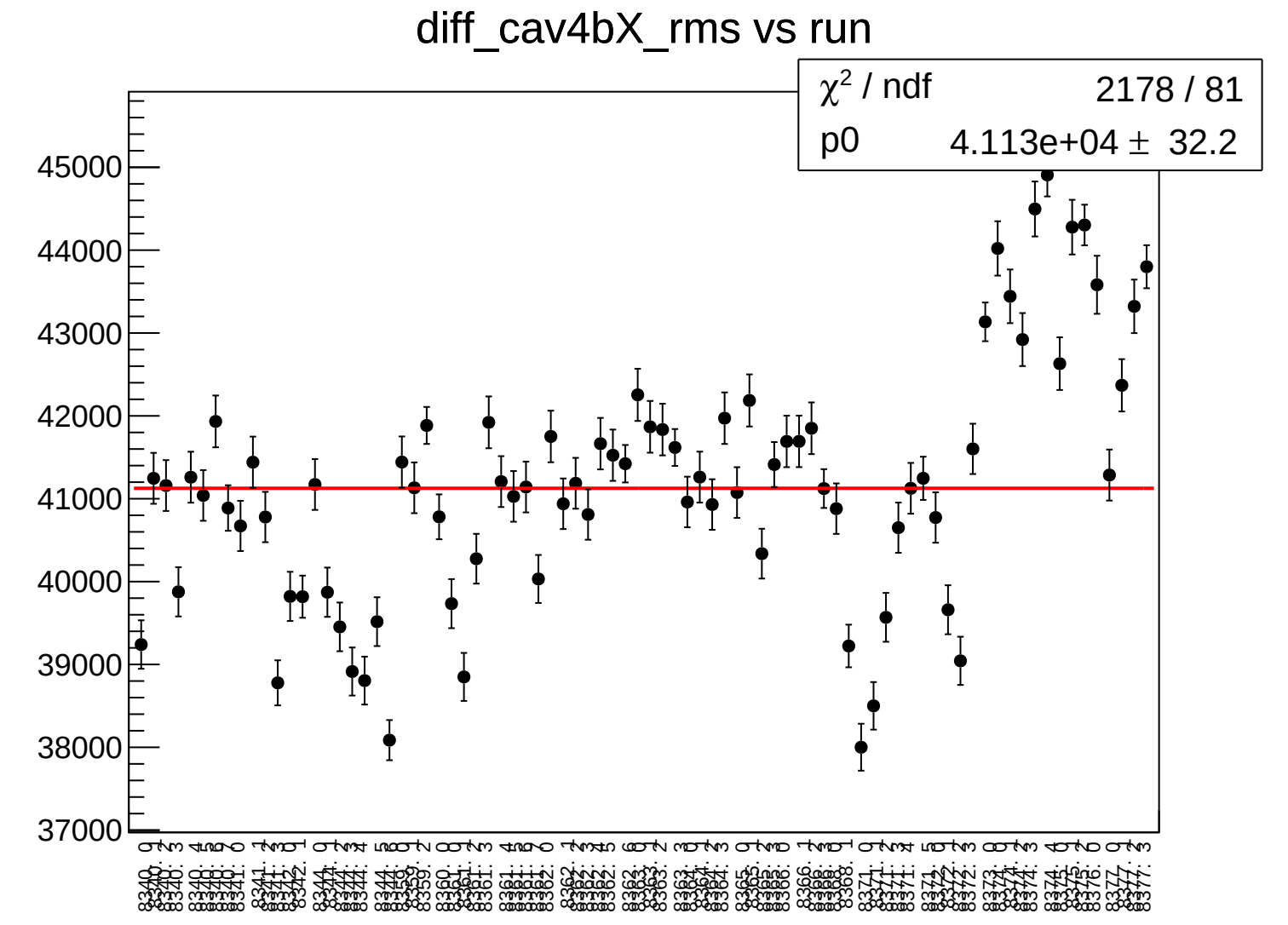

yield_bpm0l01Y_mean vs run
χ² / ndf 4.059e+06 / 81
p0 −6.67 ± 1.694e−05
−6.56
−6.58
−6.6
−6.62
−6.64
−6.66
−6.68
−6.7
−6.72
−6.74
−6.76
pull
Entries 82
Mean 2894
Std Dev 2852
600
400
200
0
−200
−400

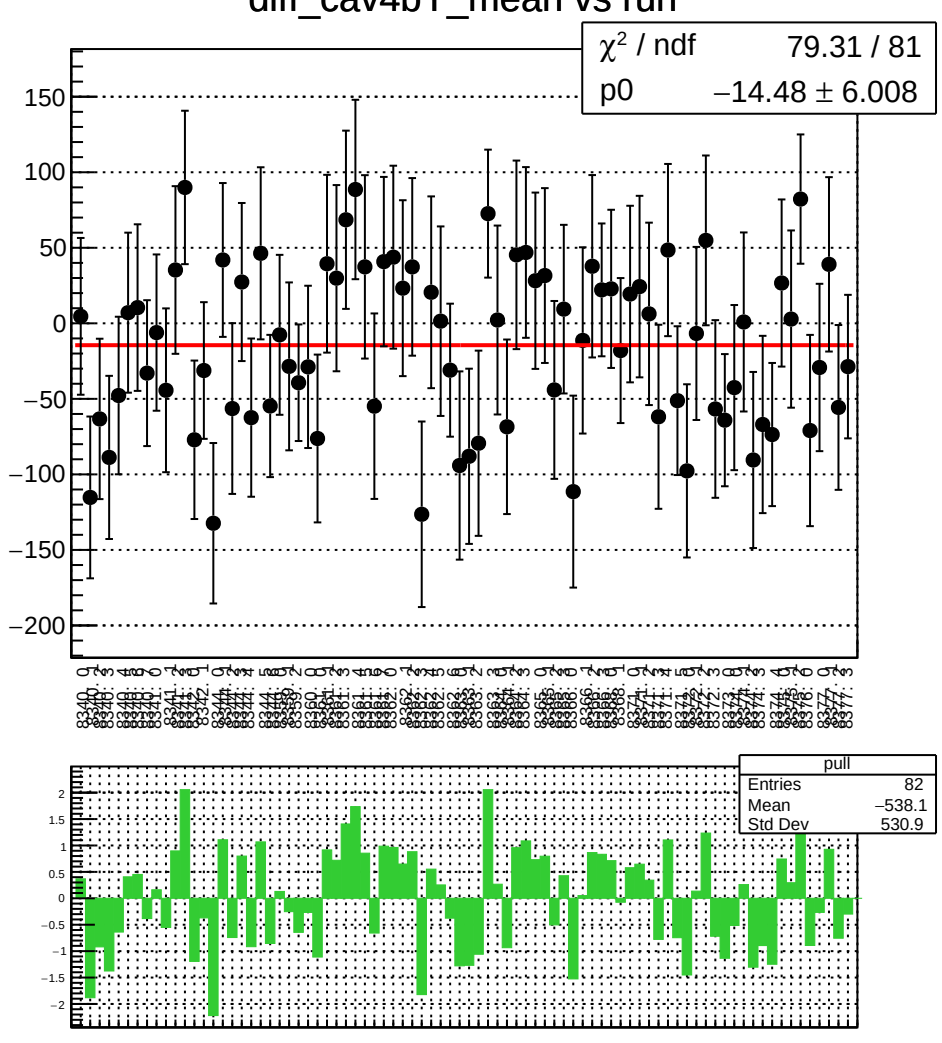

pull1D
Entries 82
Mean 0.9215
Std Dev 4.856
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

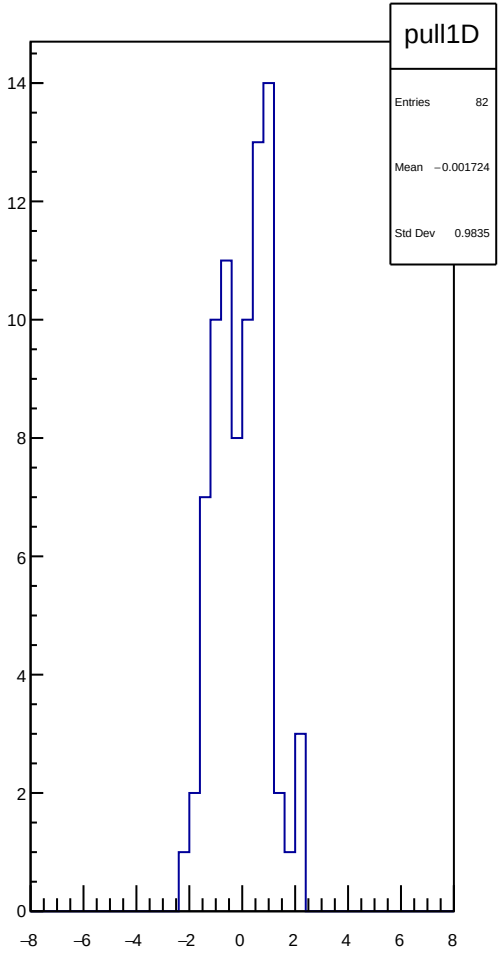

yield_bpm0l01Y_rms vs run
χ² / ndf 6.787e+04 / 81
p0 0.01499 ± 1.198e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

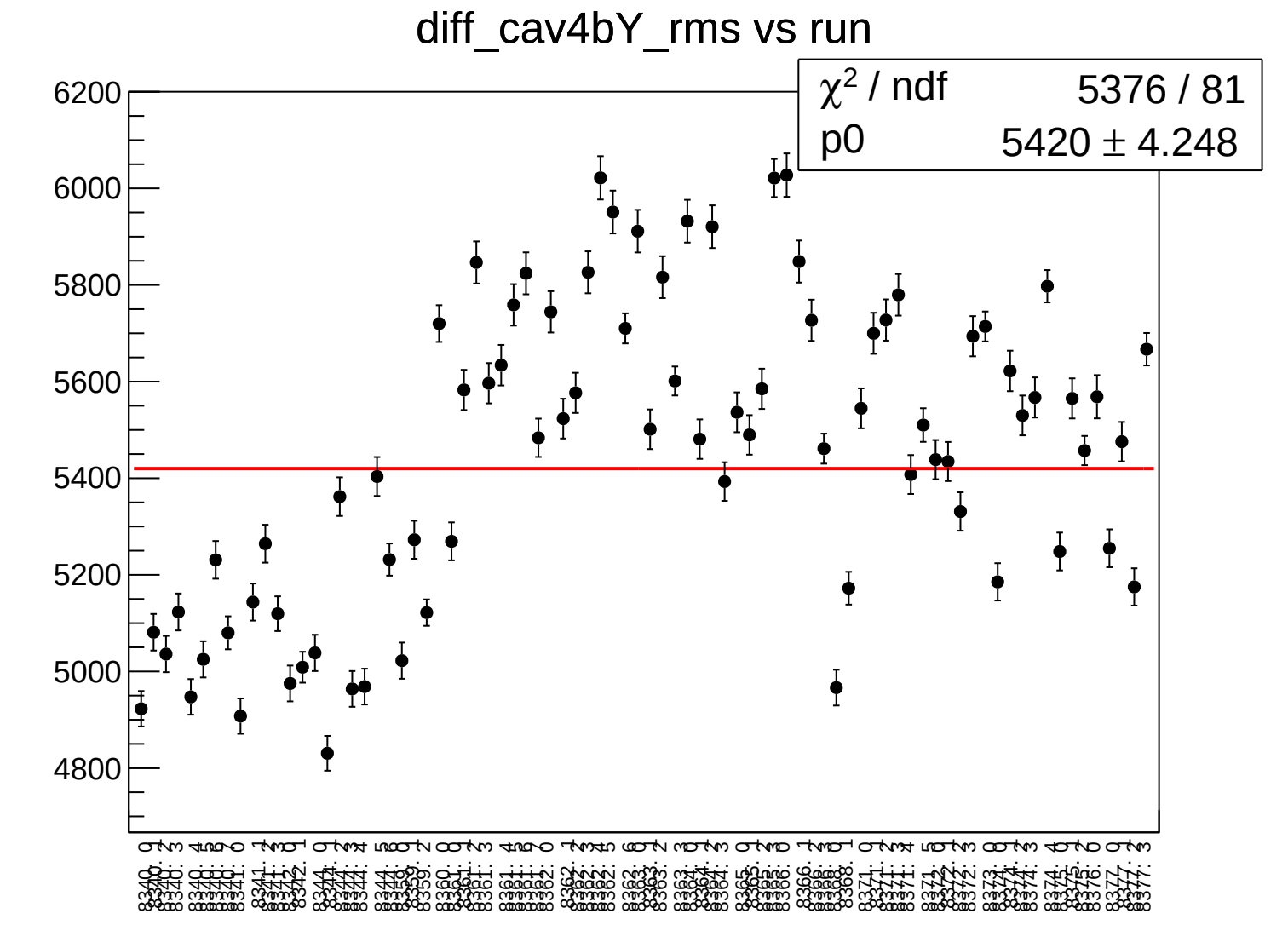

diff_cav4bX_mean vs run
χ^2 / ndf 103.4 / 81
p0 71.16 ± 45.54
pull
Entries 82
Mean −42.95
Std Dev 80.16

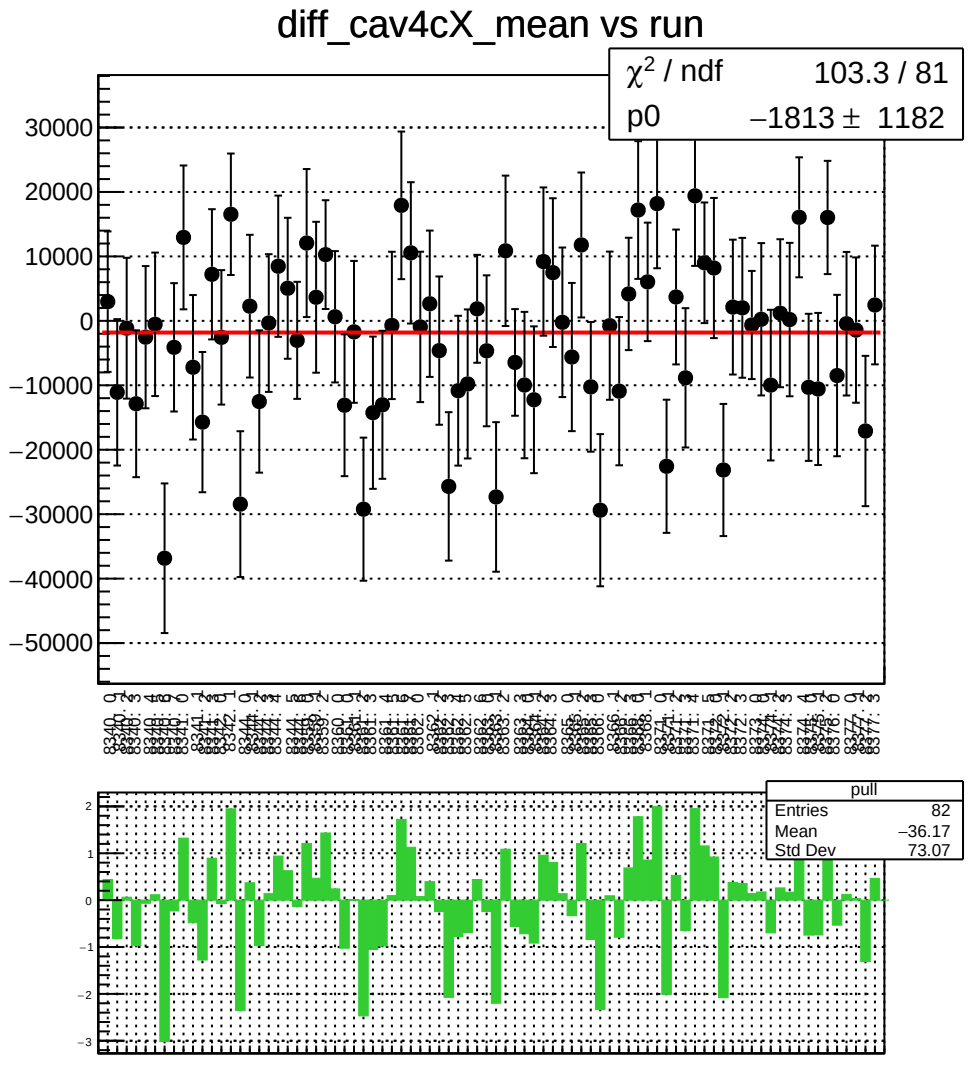

pull1D
Entries 82
Mean 0.03446
Std Dev 1.122

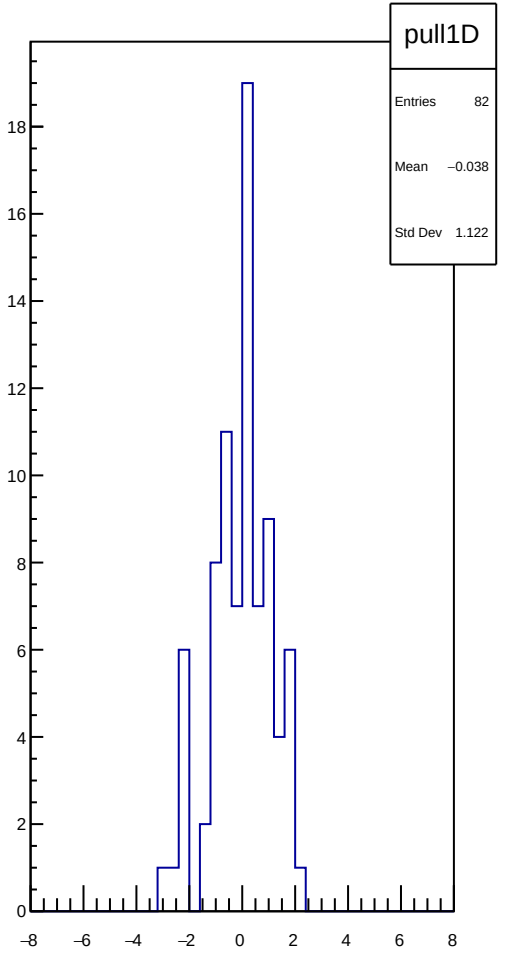

diff_cav4bX_rms vs run
χ² / ndf 2178 / 81
p0 4.113e+04 ± 32.2
45000
44000
43000
42000
41000
40000
39000
38000
37000

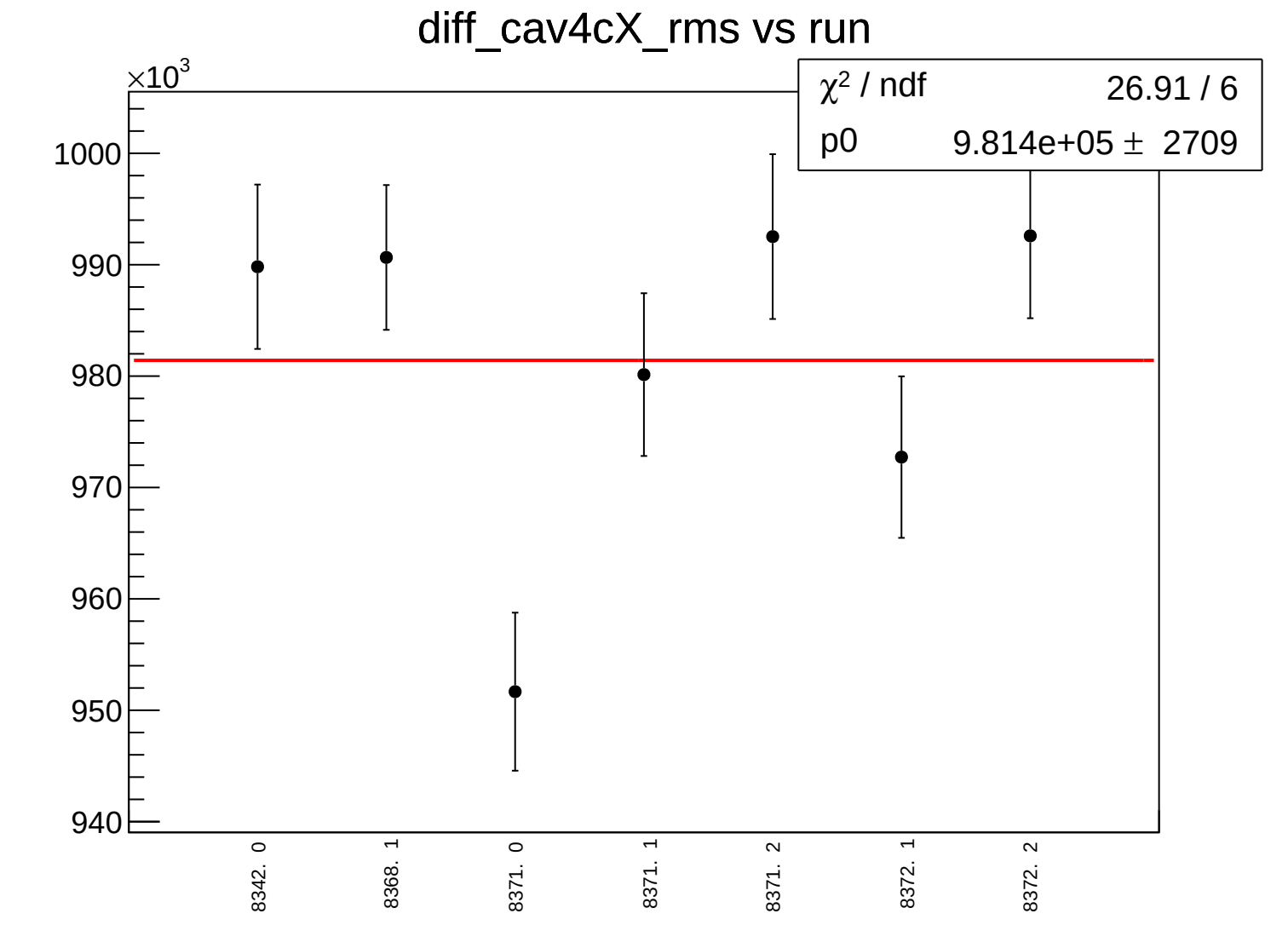

diff_cav4bY_mean vs run
χ² / ndf 79.31 / 81
p0 −14.48 ± 6.008
pull
Entries 82
Mean −538.1
Std Dev 530.9

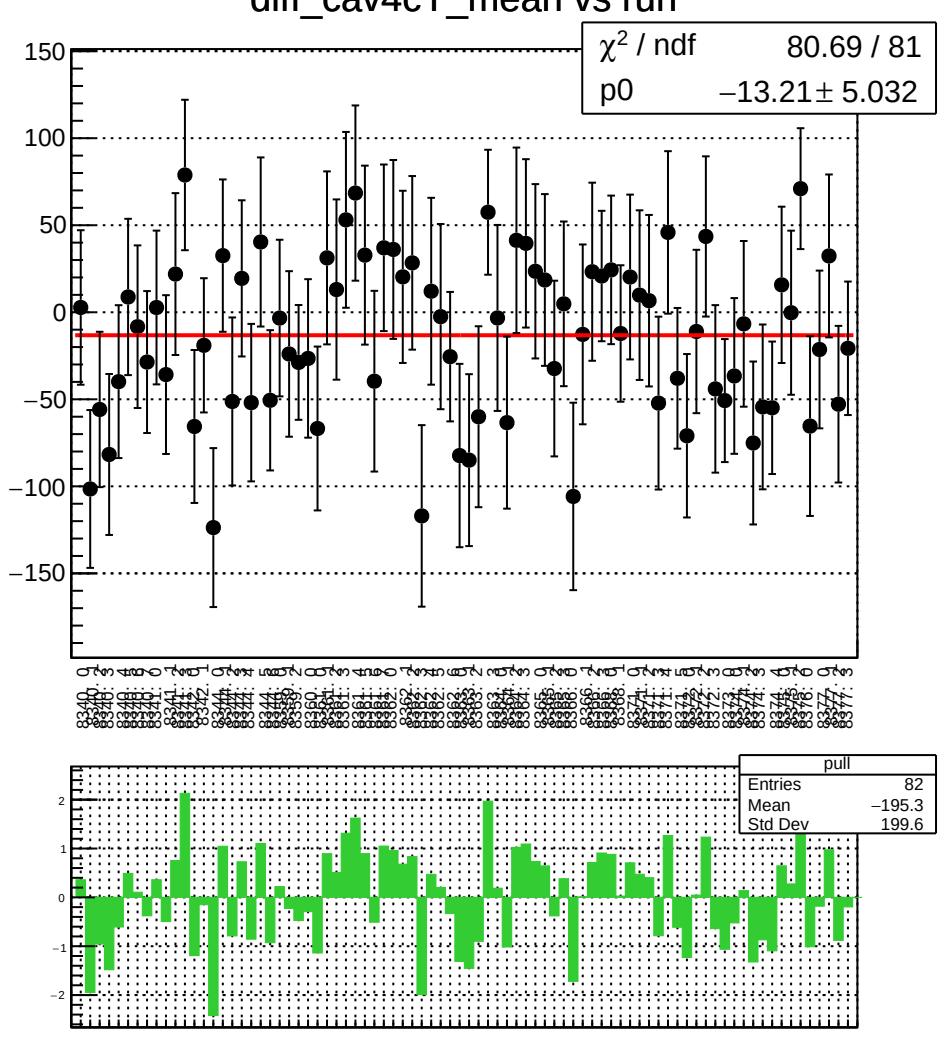

pull1D
Entries 82
Mean −0.001724
Std Dev 0.9835

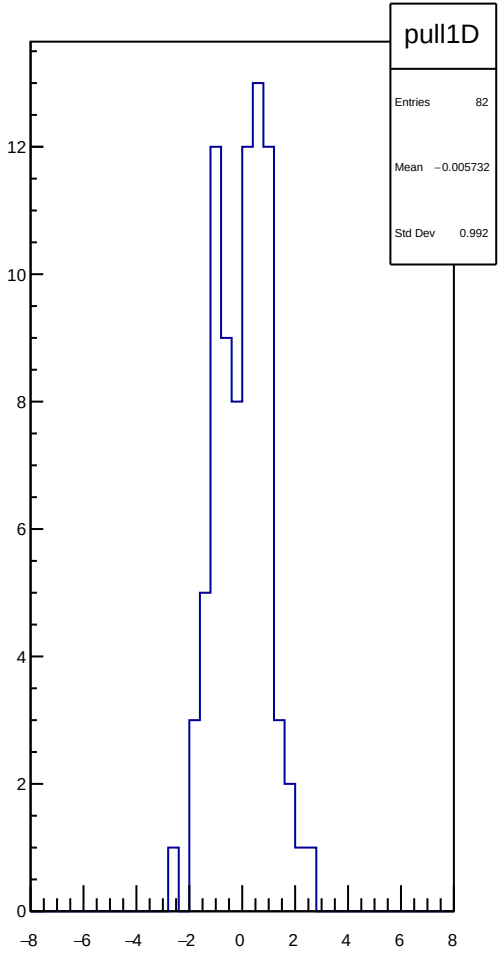

diff_cav4bY_rms vs run
χ² / ndf 5376 / 81
p0 5420 ± 4.248
6200
6000
5800
5600
5400
5200
5000
4800

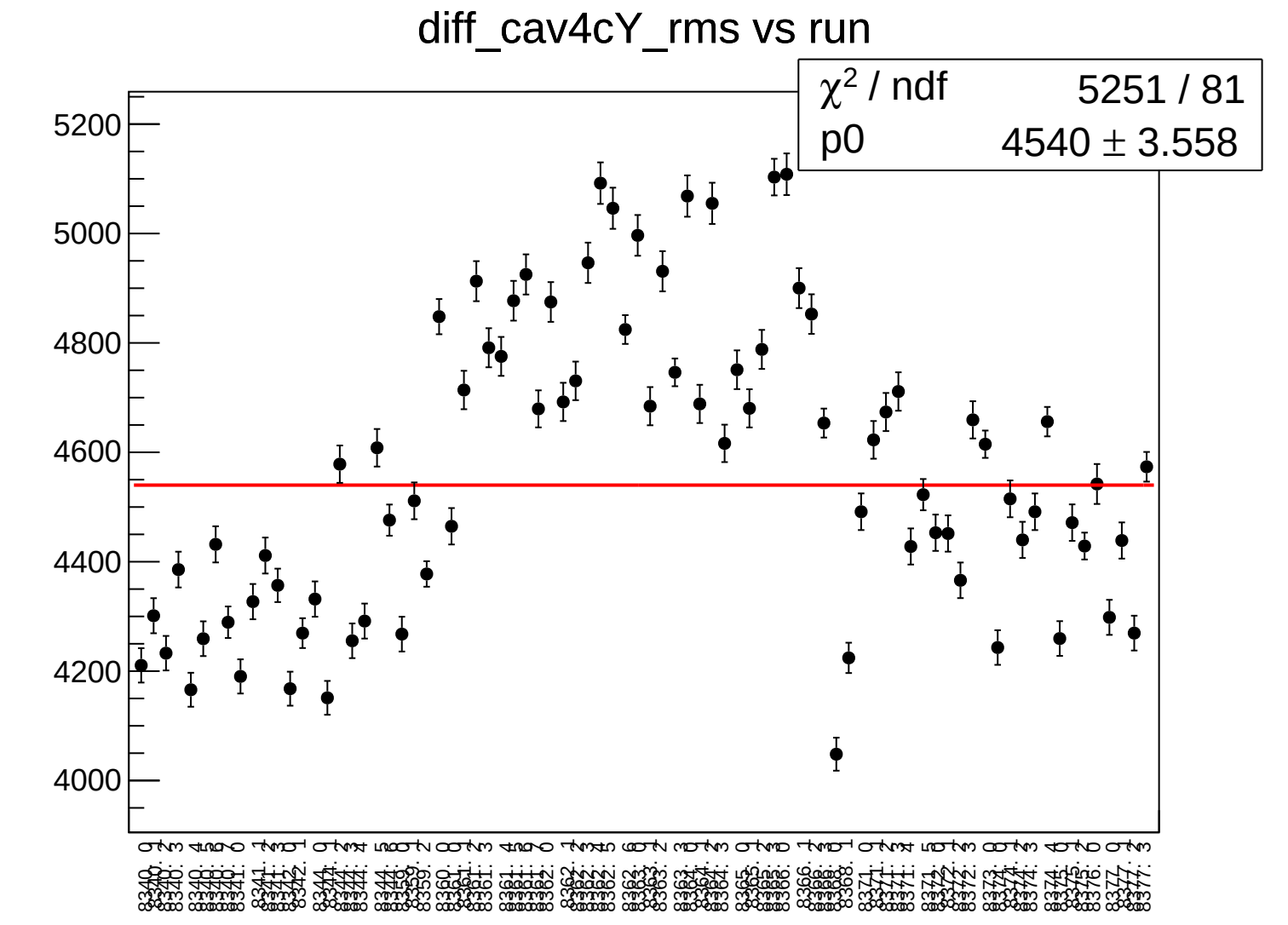

diff_cav4cX_mean vs run
χ² / ndf 103.3 / 81
p0 −1813 ± 1182
pull
Entries 82
Mean −36.17
Std Dev 73.07

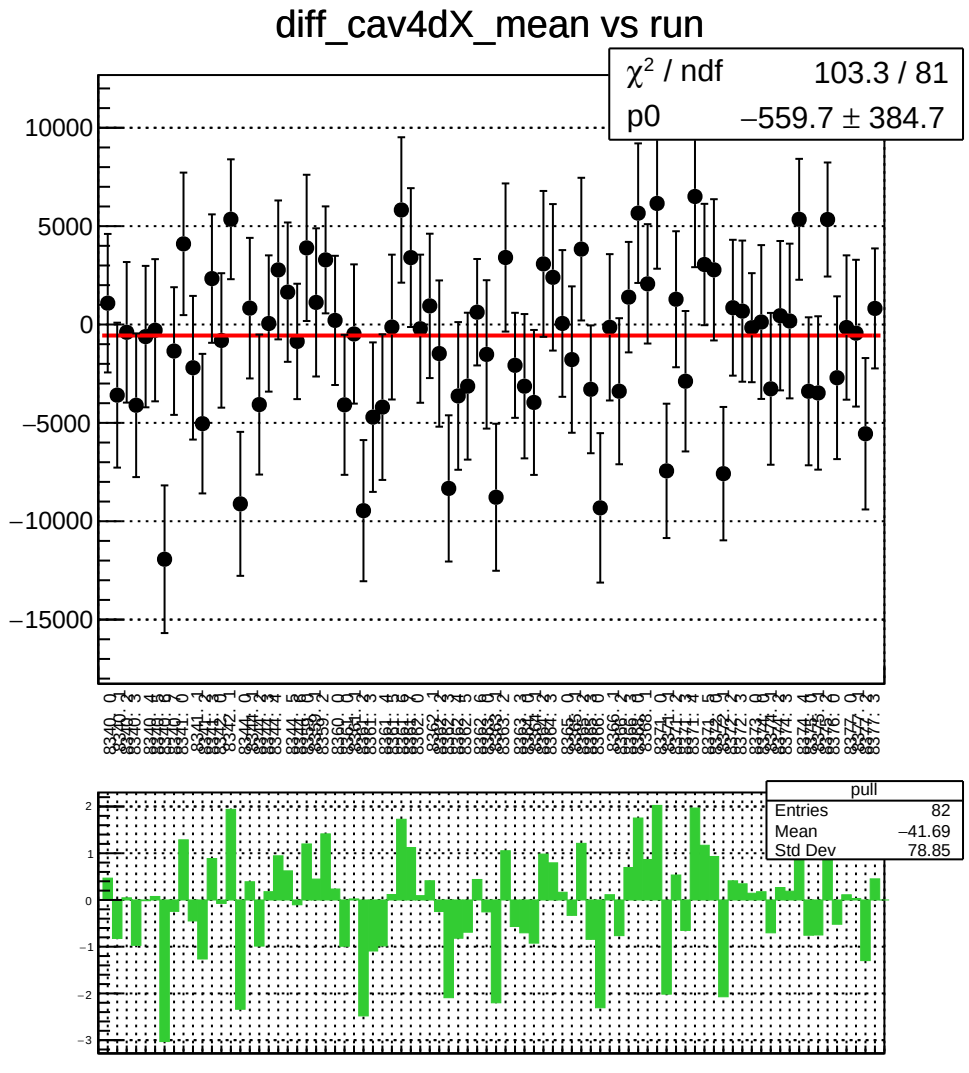

pull1D
Entries 82
Mean −0.038
Std Dev 1.122

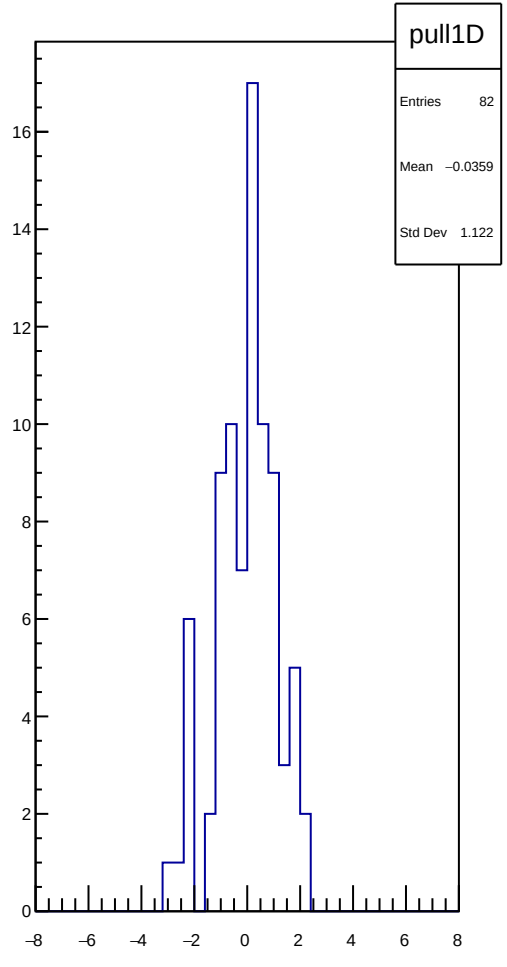

diff_cav4cX_rms vs run
×10^3
1000
990
980
970
960
950
940
χ² / ndf 26.91 / 6
p0 9.814e+05 ± 2709
8342. 0
8368. 1
8371. 0
8371. 1
8371. 2
8372. 1
8372. 2

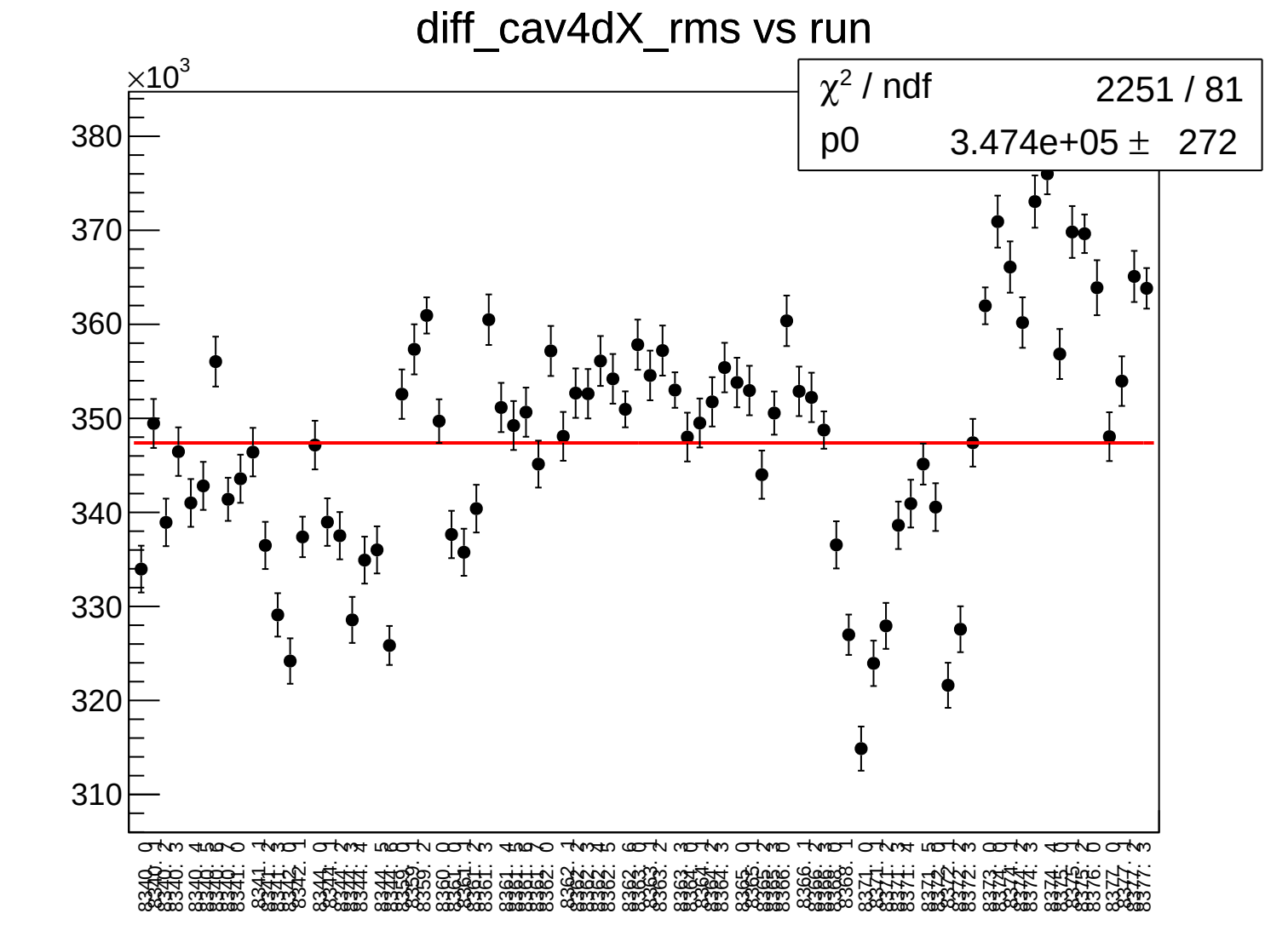

diff_cav4cY_mean vs run
χ² / ndf 80.69 / 81
p0 −13.21 ± 5.032
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −195.3
Std Dev 199.6
2
1
0
−1
−2

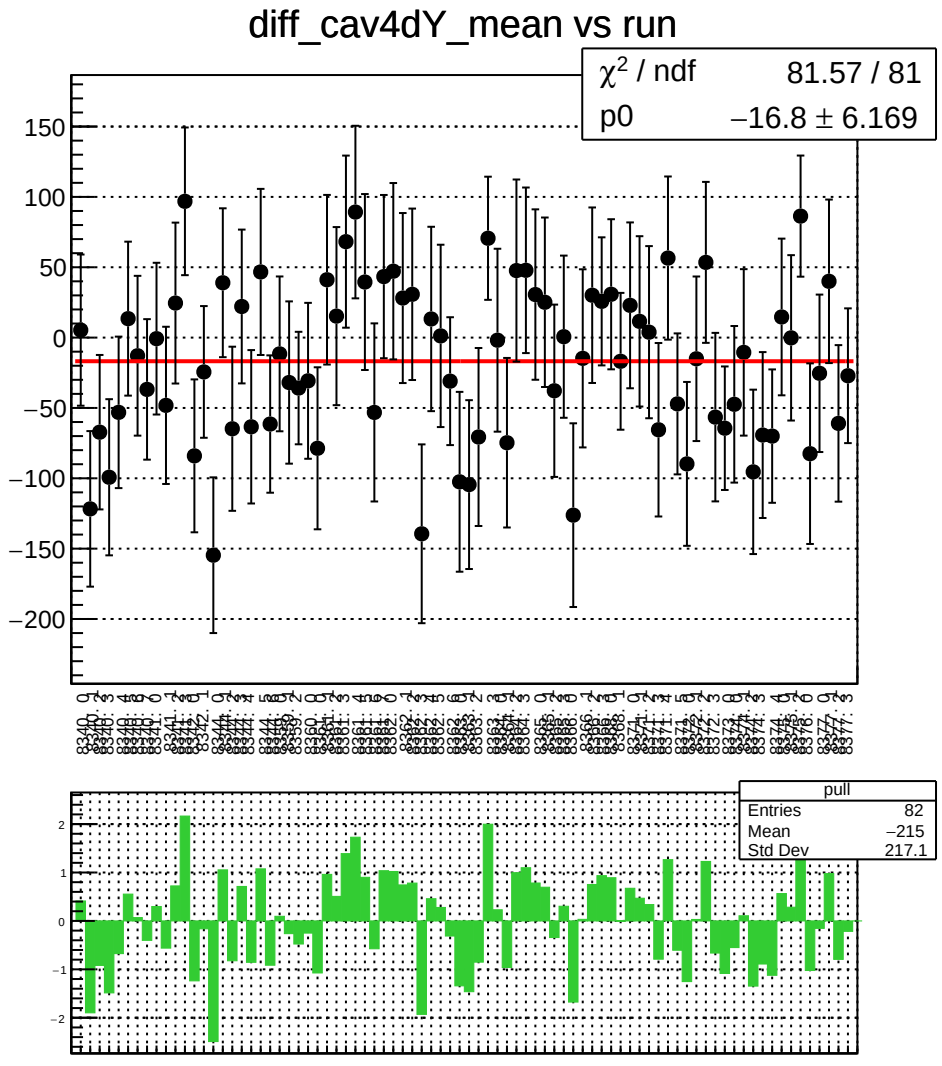

pull1D
Entries 82
Mean −0.005732
Std Dev 0.992
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

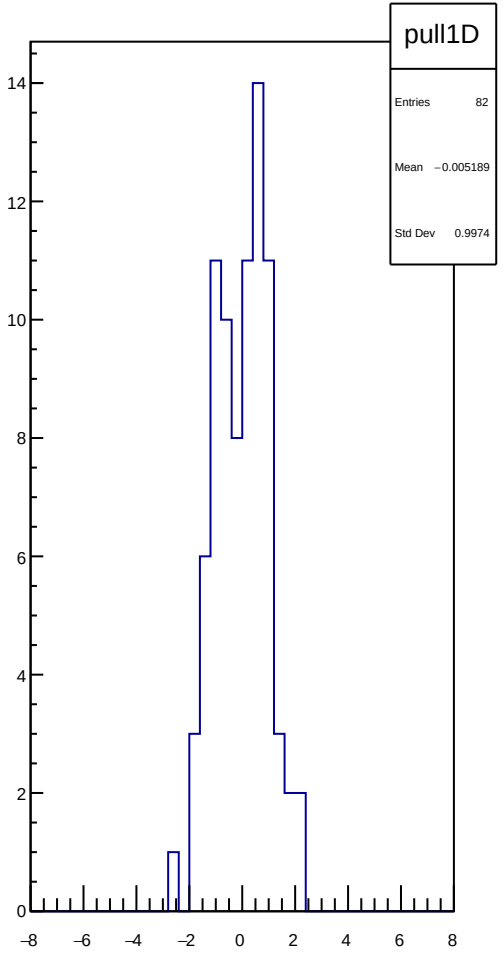

diff_cav4cY_rms vs run
χ² / ndf 5251 / 81
p0 4540 ± 3.558
5200
5000
4800
4600
4400
4200
4000

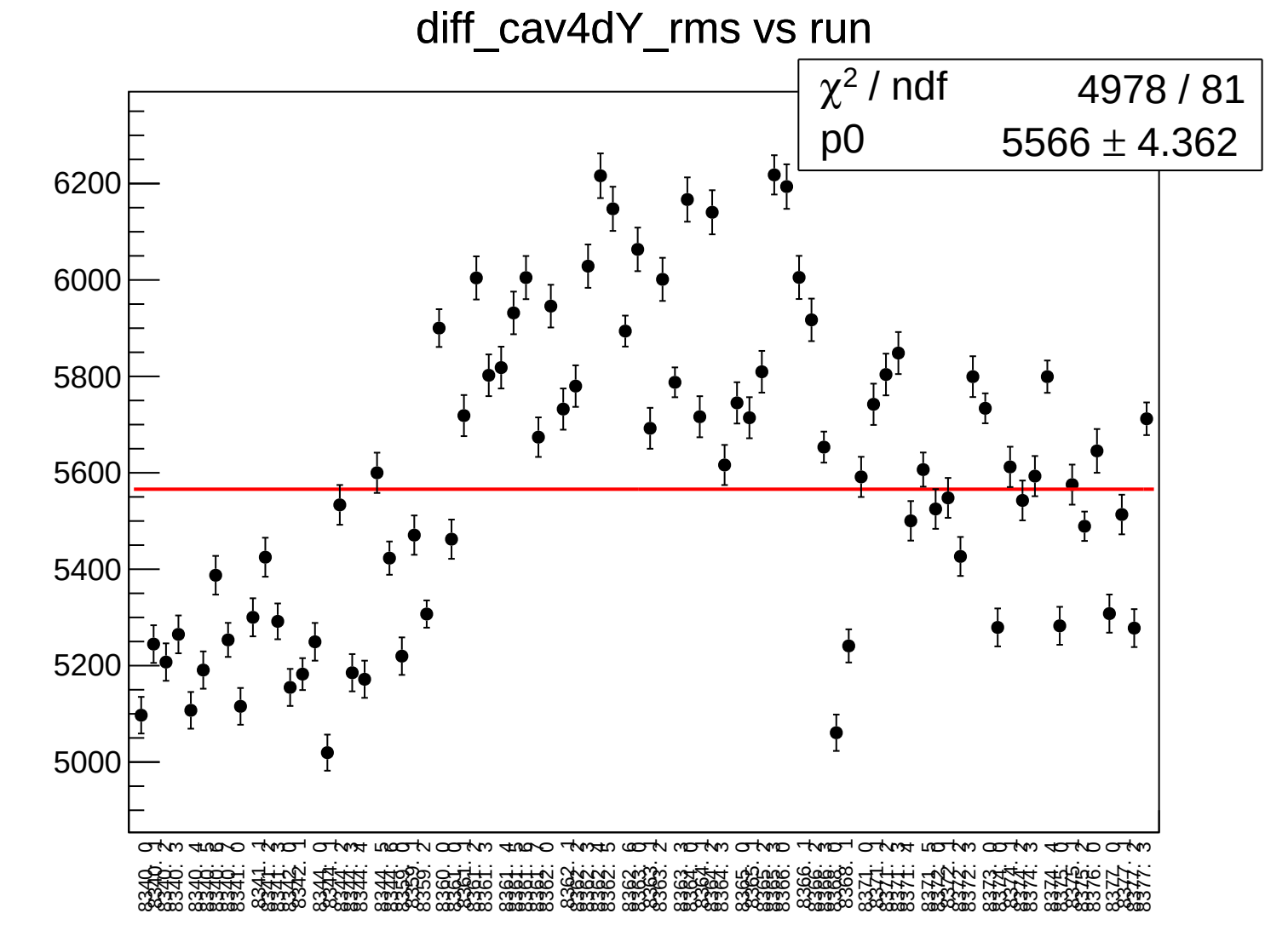

diff_cav4dX_mean vs run
χ² / ndf 103.3 / 81
p0 −559.7 ± 384.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −41.69
Std Dev 78.85
2
1
0
−1
−2
−3

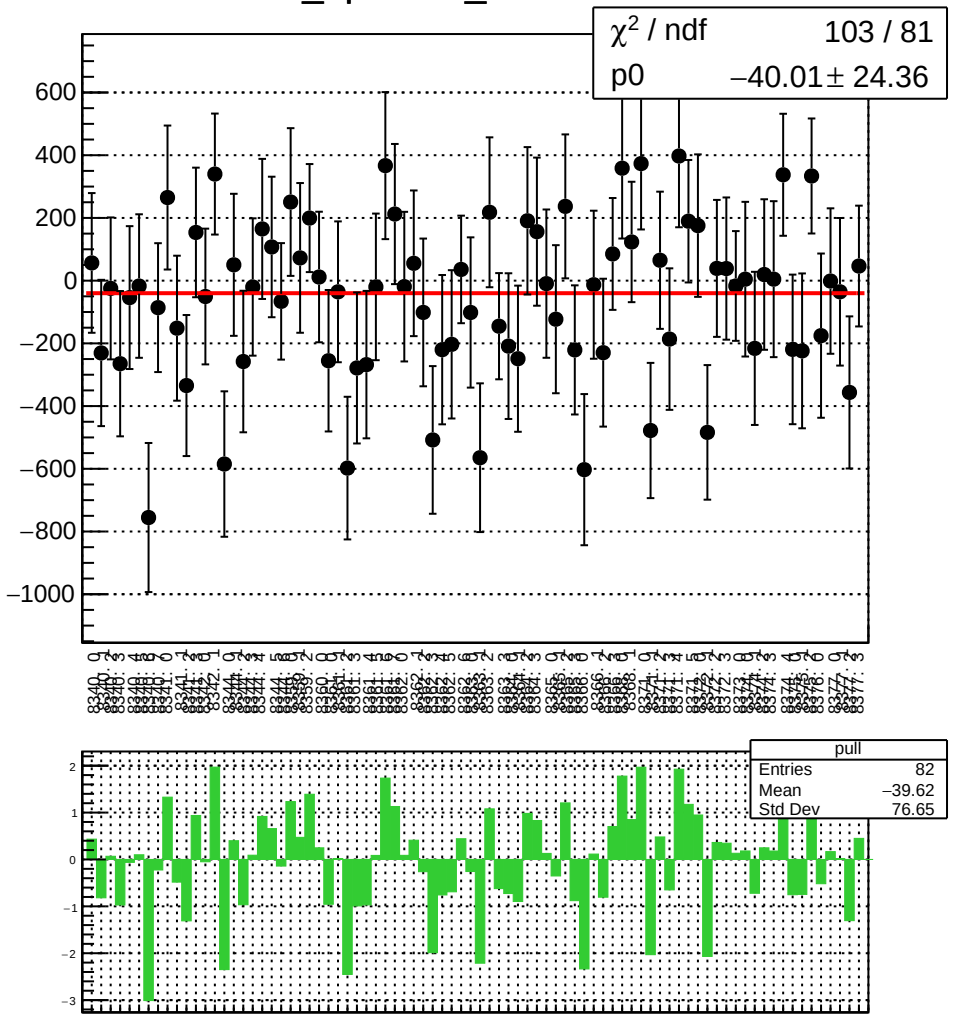

pull1D
Entries 82
Mean −0.0359
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

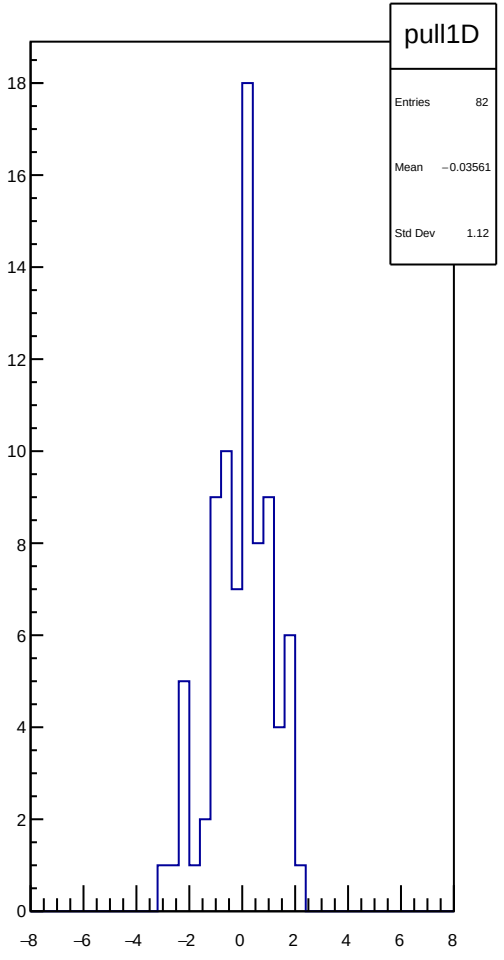

diff_cav4dX_rms vs run
×10^3
380
370
360
350
340
330
320
310
χ² / ndf 2251 / 81
p0 3.474e+05 ± 272

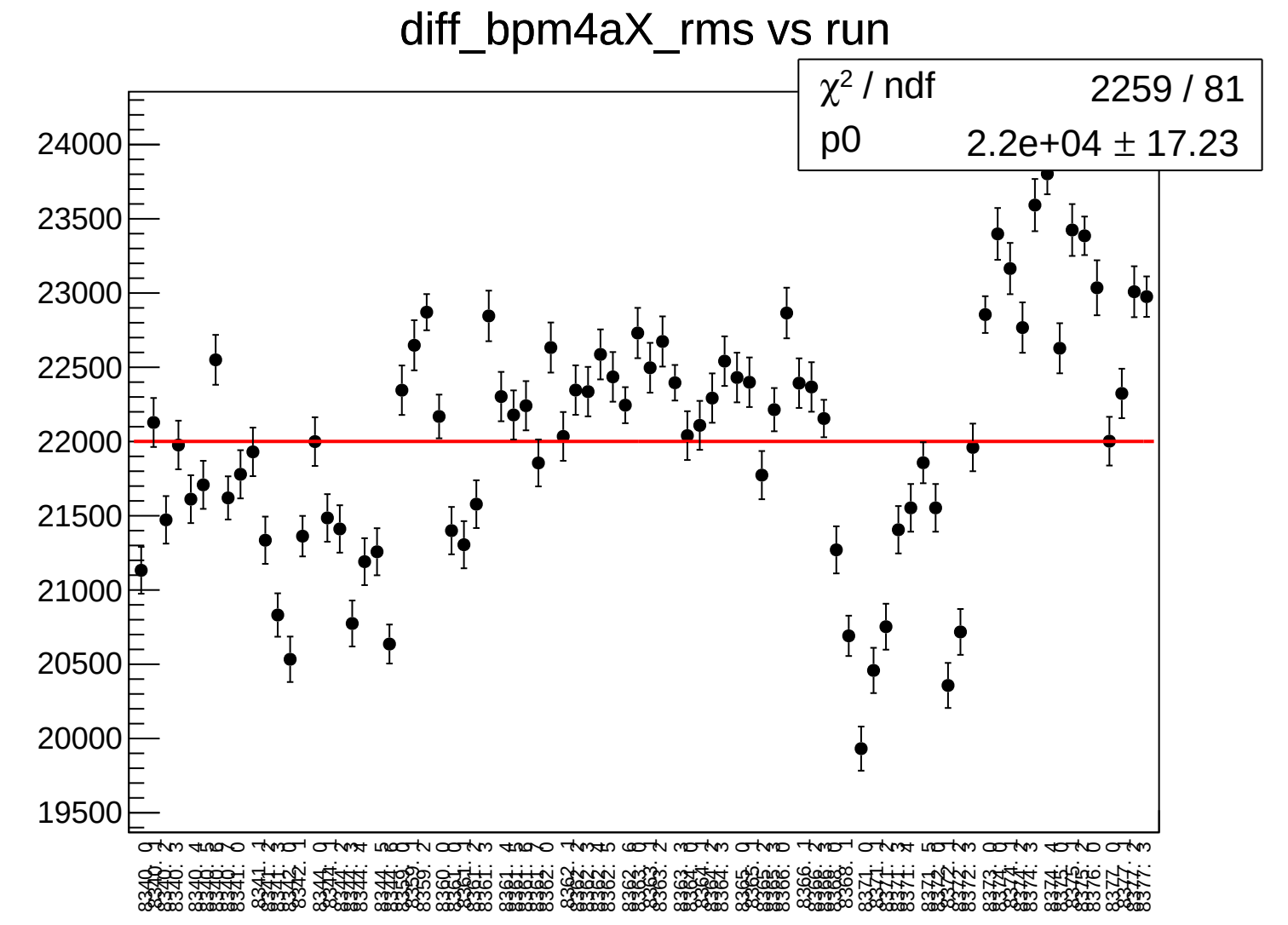

diff_cav4dY_mean vs run
χ² / ndf 81.57 / 81
p0 −16.8 ± 6.169
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean −215
Std Dev 217.1
2
1
0
−1
−2

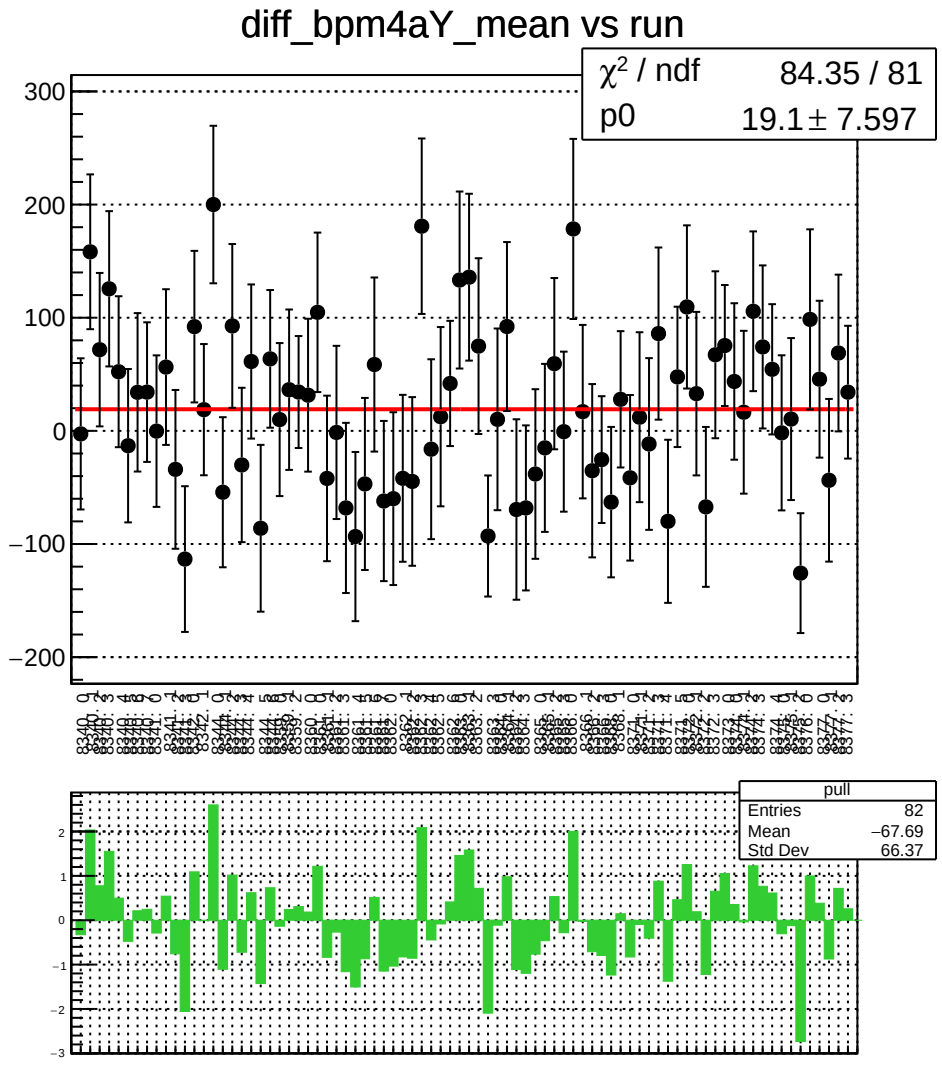

pull1D
Entries 82
Mean −0.005189
Std Dev 0.9974
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

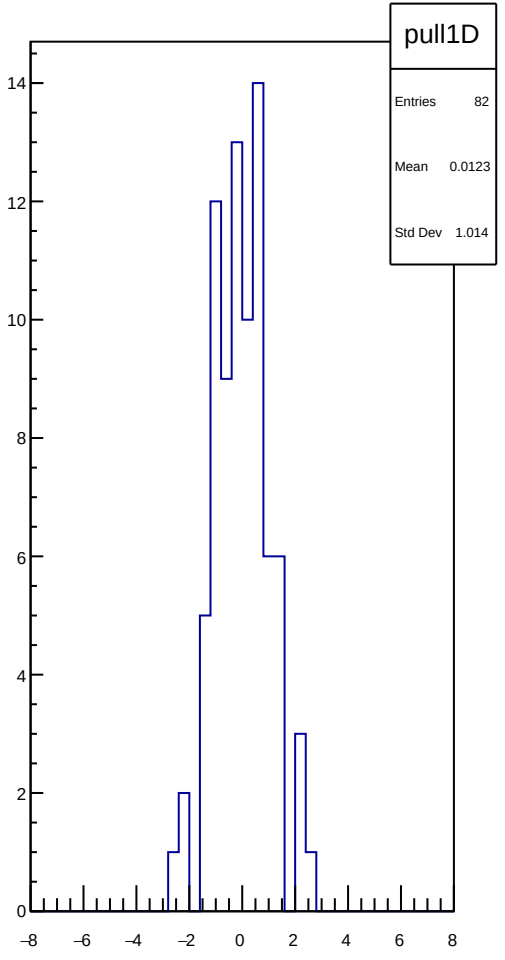

diff_cav4dY_rms vs run
χ² / ndf 4978 / 81
p0 5566 ± 4.362
6200
6000
5800
5600
5400
5200
5000

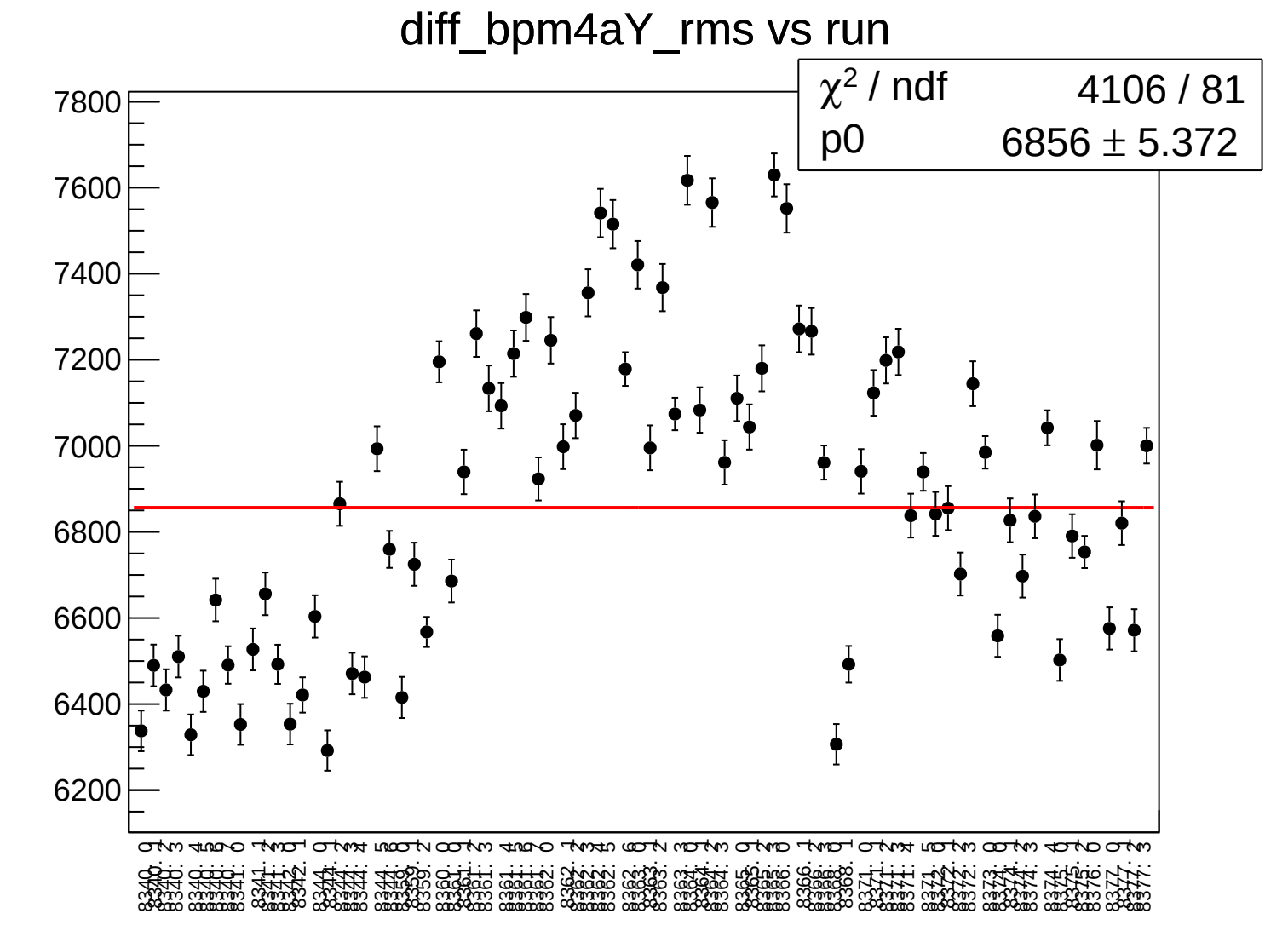

diff_bpm4aX_mean vs run
χ² / ndf 103 / 81
p0 −40.01 ± 24.36
pull
Entries 82
Mean −39.62
Std Dev 76.65

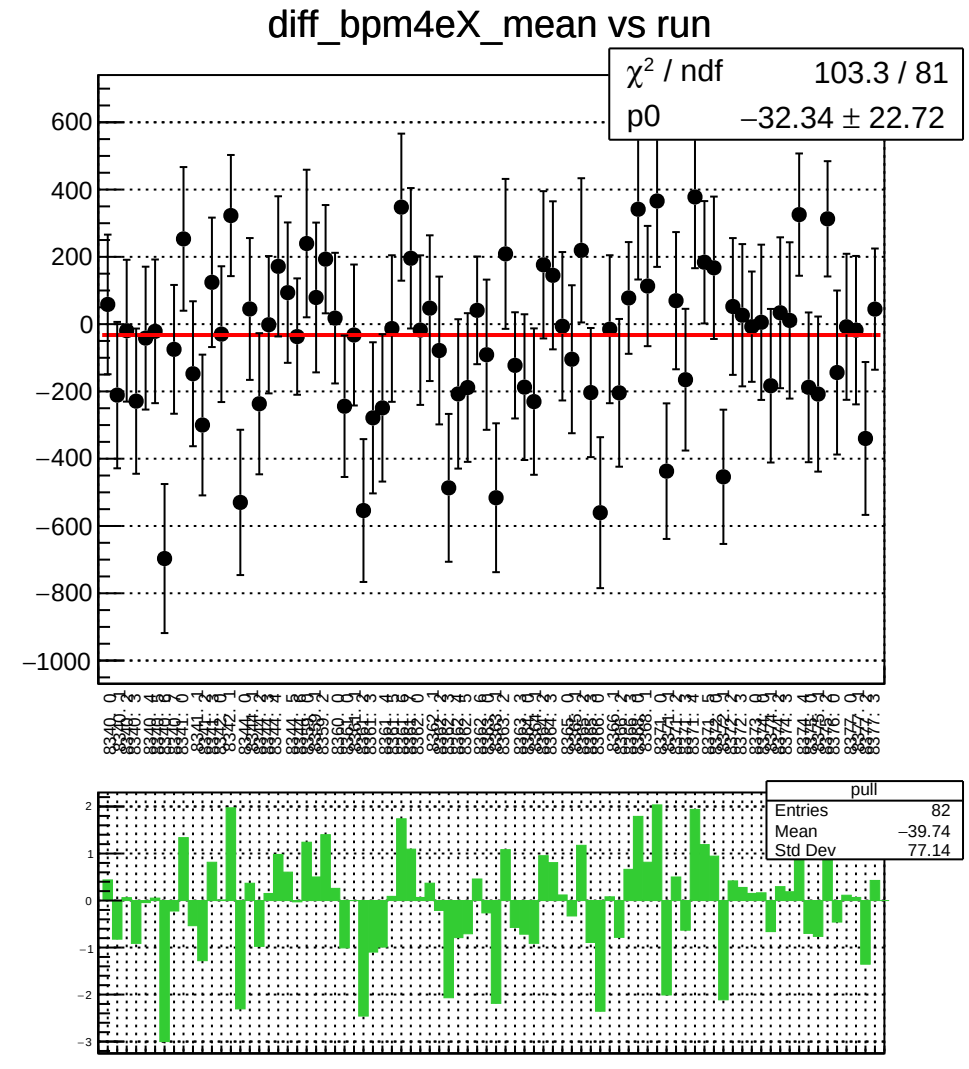

pull1D
Entries 82
Mean −0.03561
Std Dev 1.12

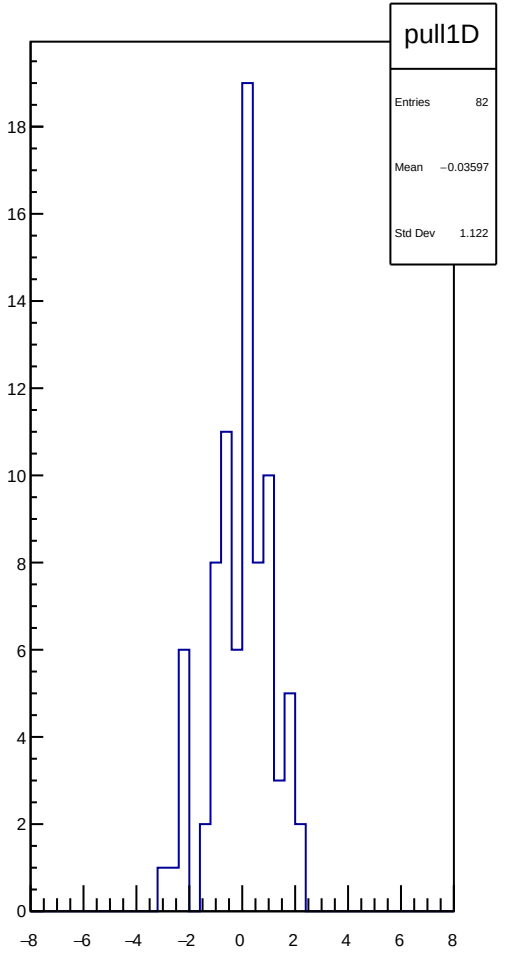

diff_bpm4aX_rms vs run
χ² / ndf 2259 / 81
p0 2.2e+04 ± 17.23
24000
23500
23000
22500
22000
21500
21000
20500
20000
19500


diff_bpm4aY_mean vs run
χ² / ndf 84.35 / 81
p0 19.1 ± 7.597
pull
Entries 82
Mean −67.69
Std Dev 66.37

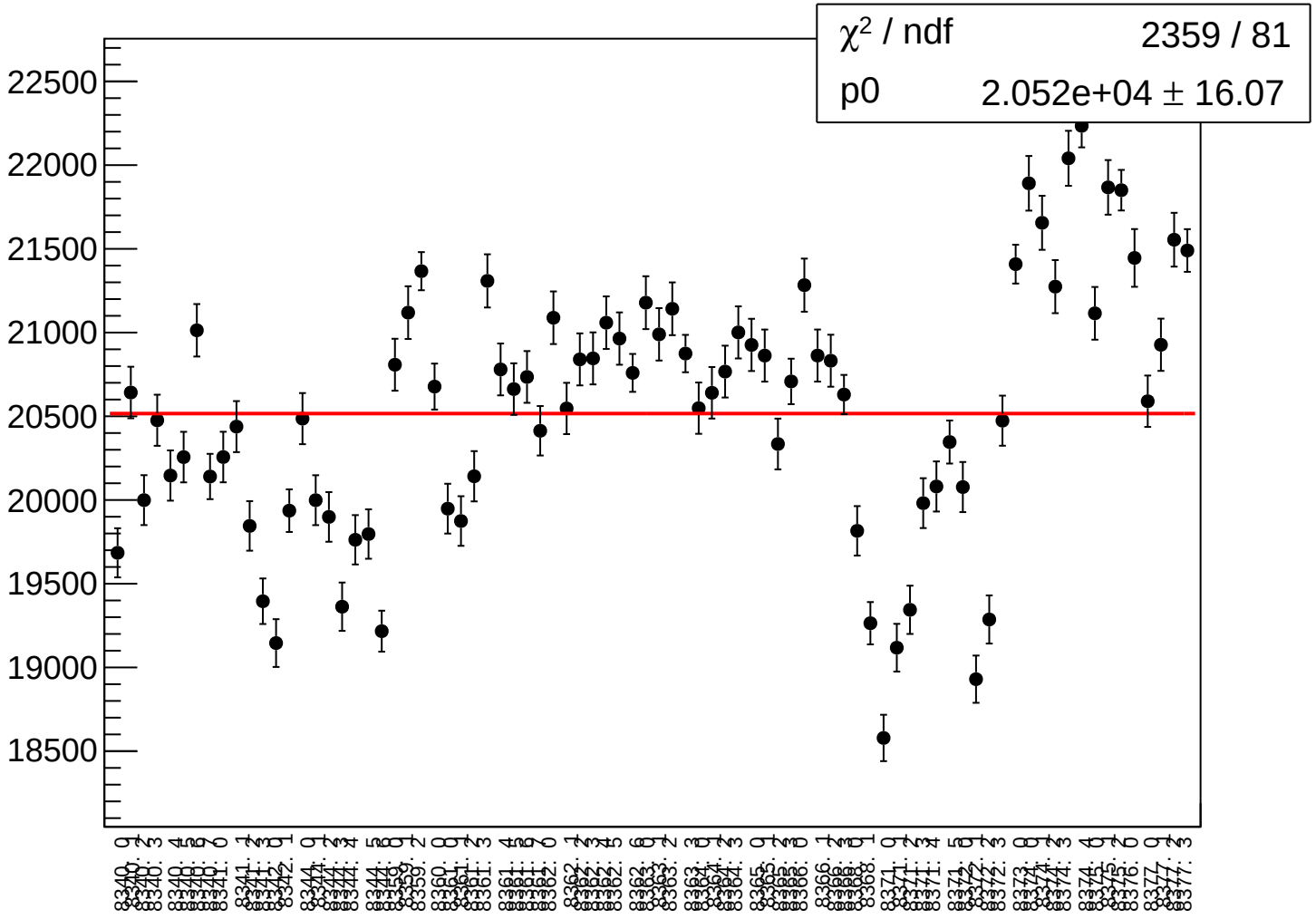

pull1D
Entries 82
Mean 0.0123
Std Dev 1.014

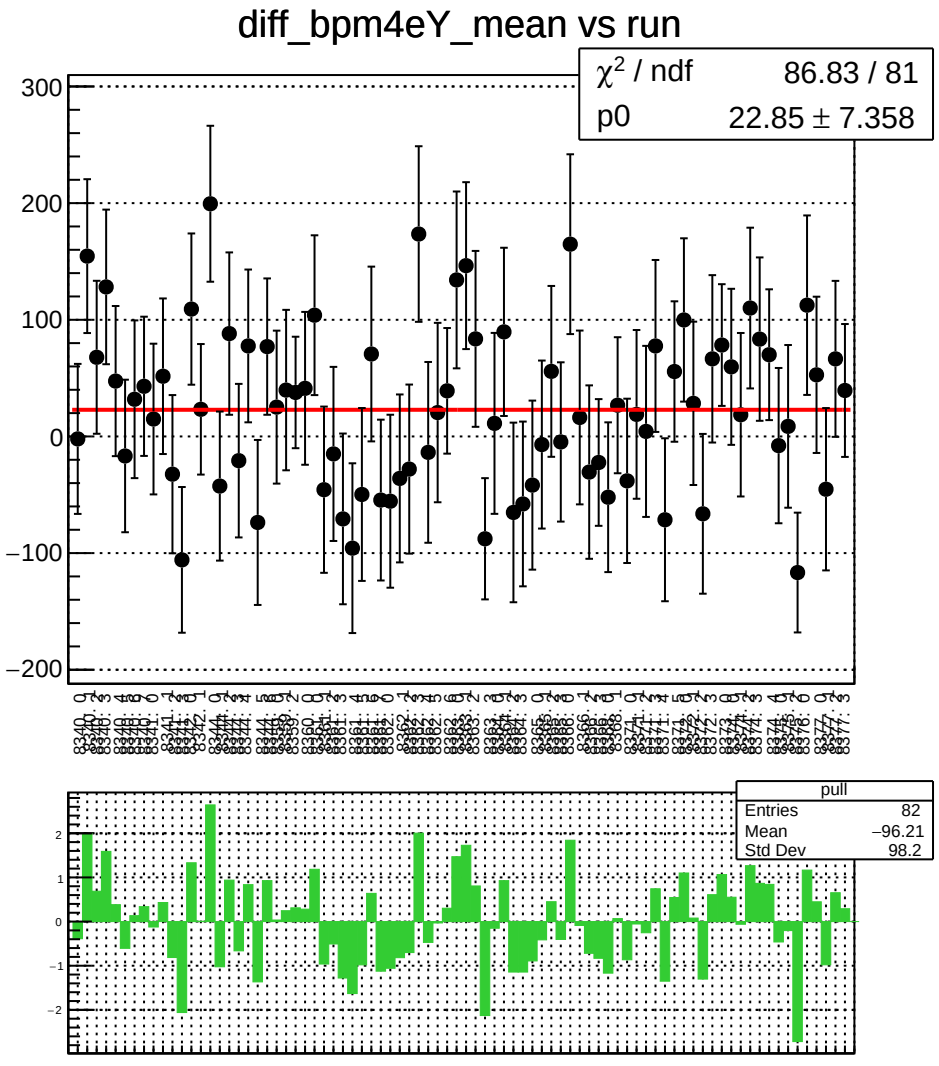

diff_bpm4aY_rms vs run
χ² / ndf 4106 / 81
p0 6856 ± 5.372
7800
7600
7400
7200
7000
6800
6600
6400
6200

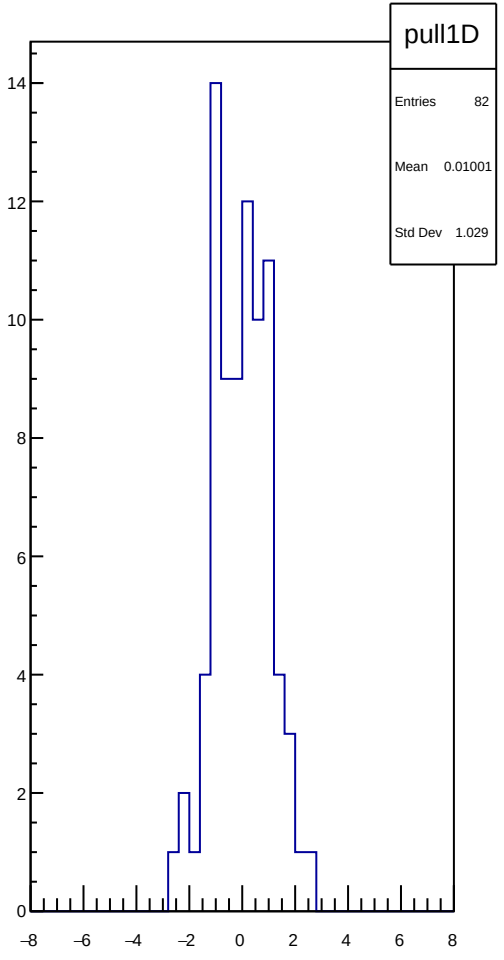

diff_bpm4eX_mean vs run
χ² / ndf 103.3 / 81
p0 −32.34 ± 22.72
pull
Entries 82
Mean −39.74
Std Dev 77.14

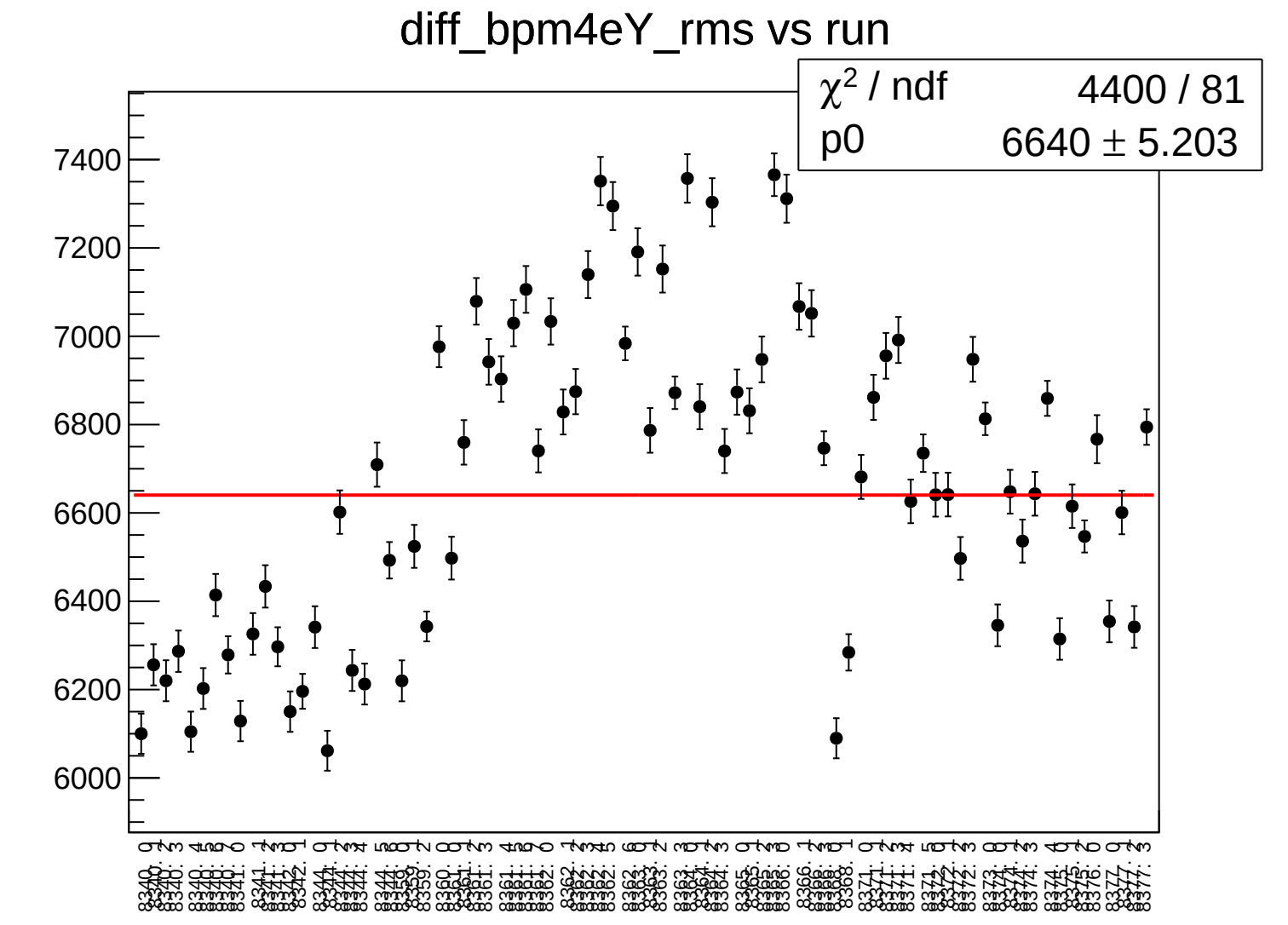

pull1D
Entries 82
Mean −0.03597
Std Dev 1.122

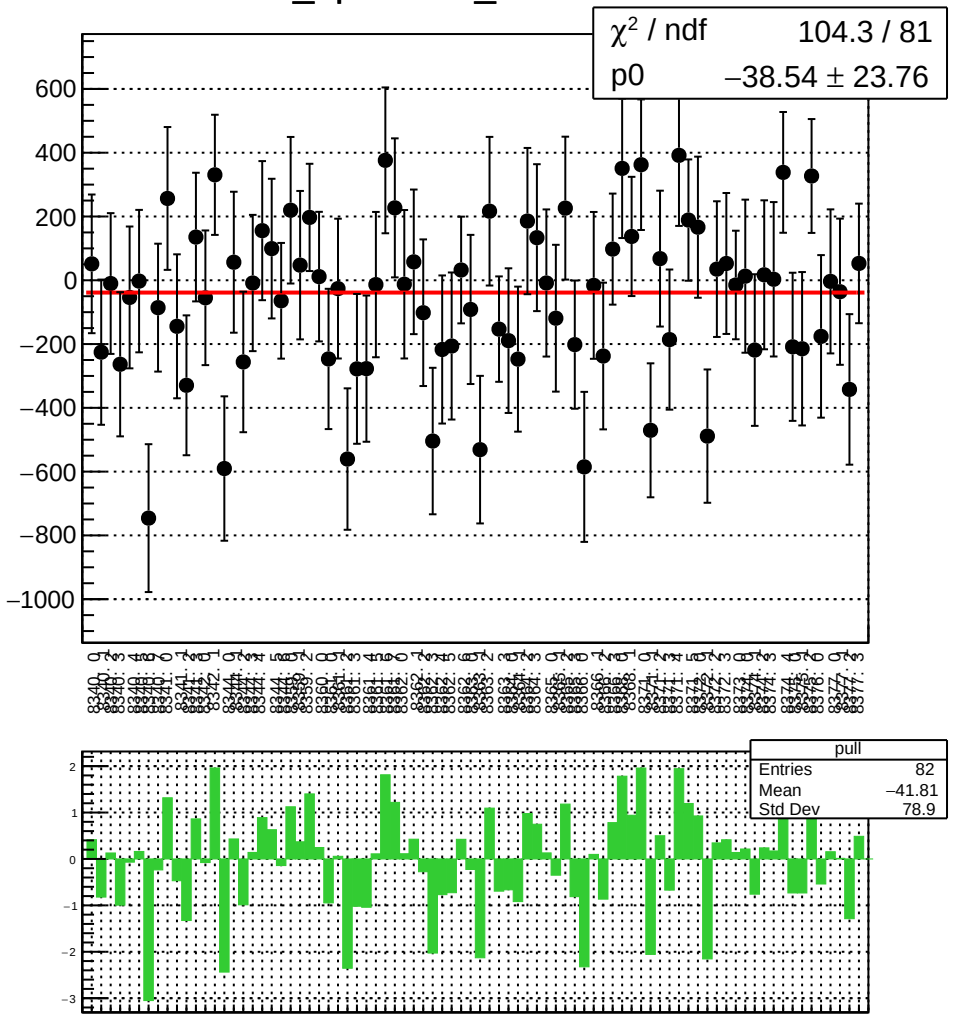
diff_bpm4eX_rms vs run

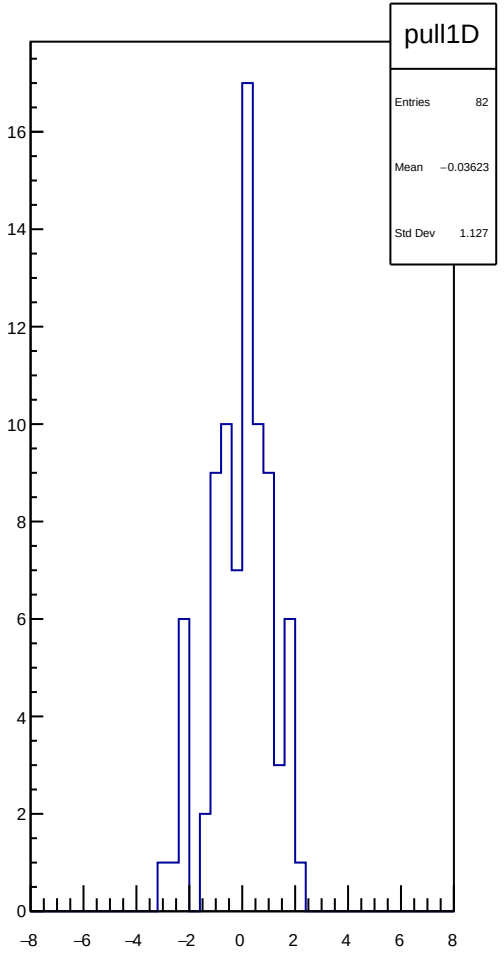


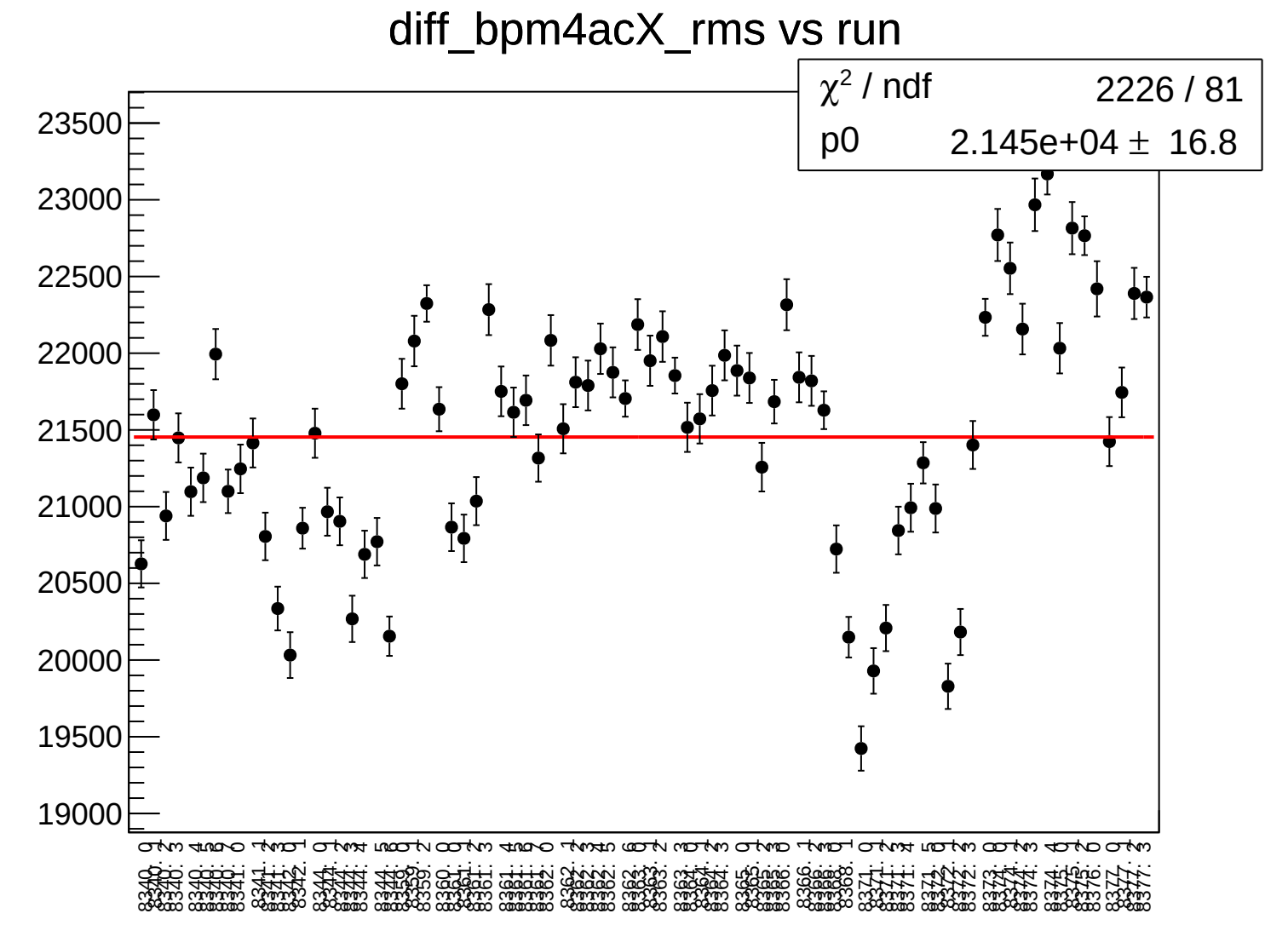

diff_bpm4eY_mean vs run
χ^2 / ndf 86.83 / 81
p0 22.85 ± 7.358
pull
Entries 82
Mean −96.21
Std Dev 98.2

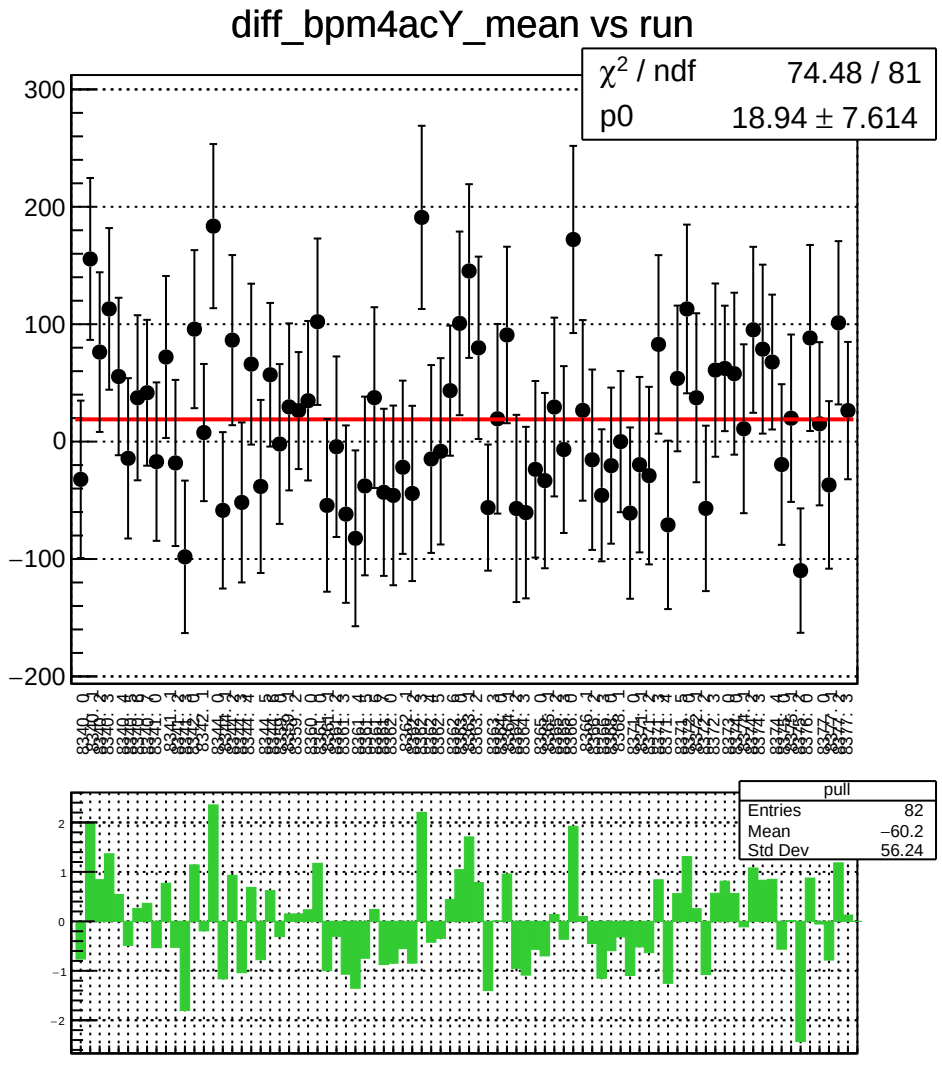

pull1D
Entries 82
Mean 0.01001
Std Dev 1.029

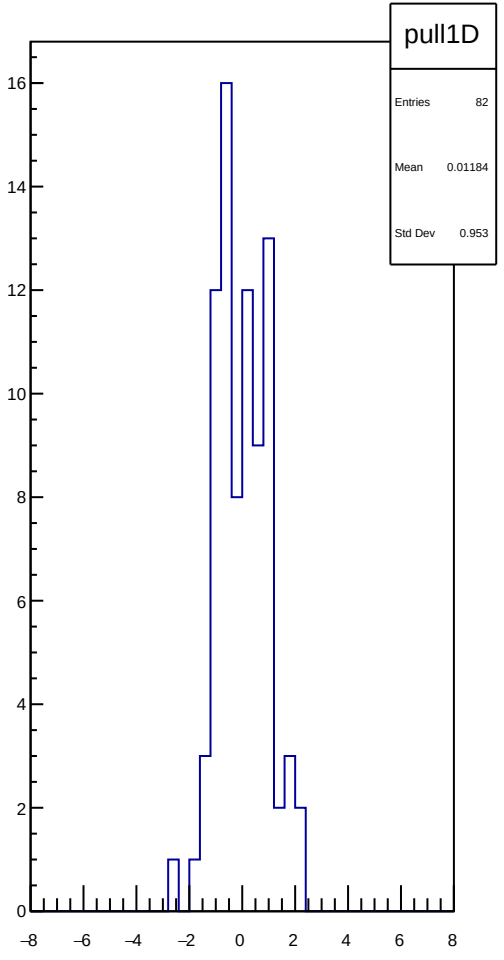

diff_bpm4eY_rms vs run
χ² / ndf 4400 / 81
p0 6640 ± 5.203
7400
7200
7000
6800
6600
6400
6200
6000

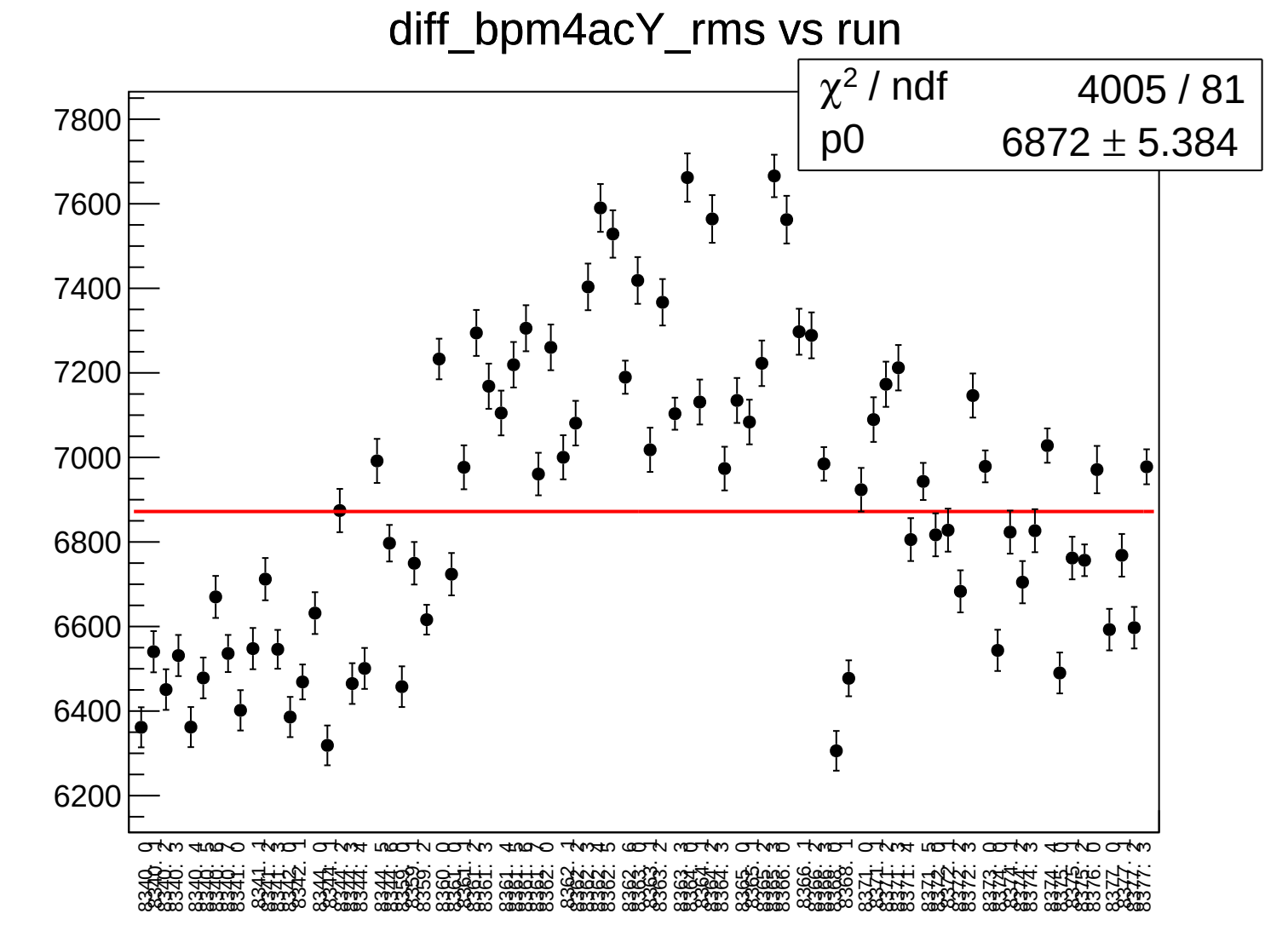

diff_bpm4acX_mean vs run
χ² / ndf 104.3 / 81
p0 −38.54 ± 23.76
pull
Entries 82
Mean −41.81
Std Dev 78.9

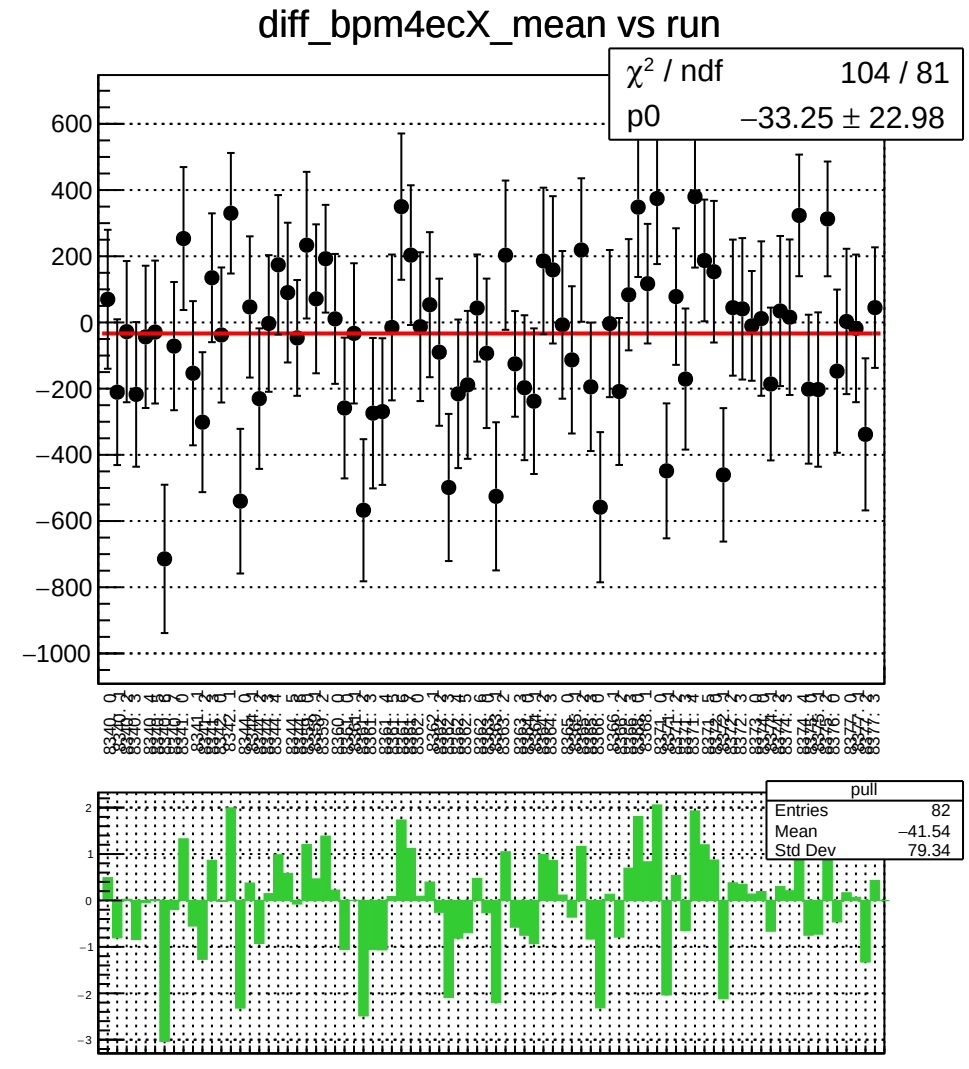

pull1D
Entries 82
Mean −0.03623
Std Dev 1.127

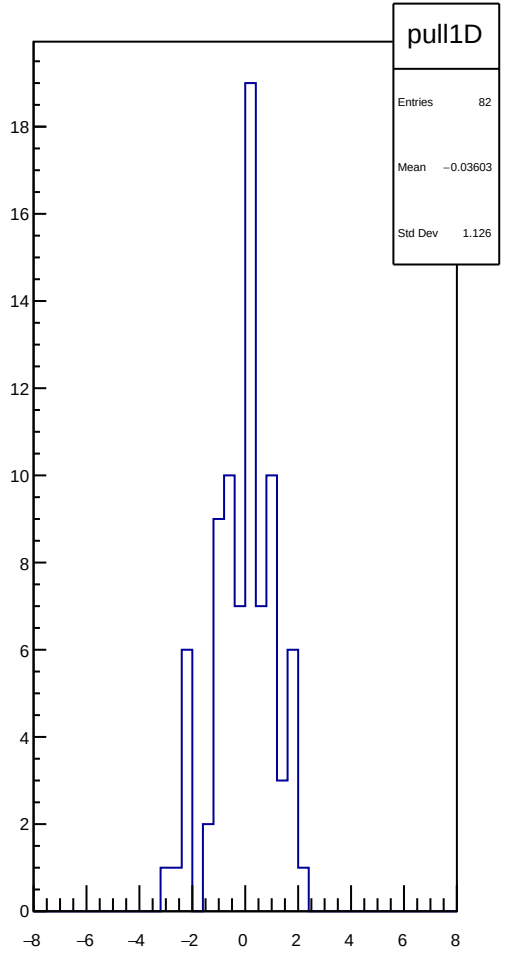

diff_bpm4acX_rms vs run
χ² / ndf 2226 / 81
p0 2.145e+04 ± 16.8
23500
23000
22500
22000
21500
21000
20500
20000
19500
19000

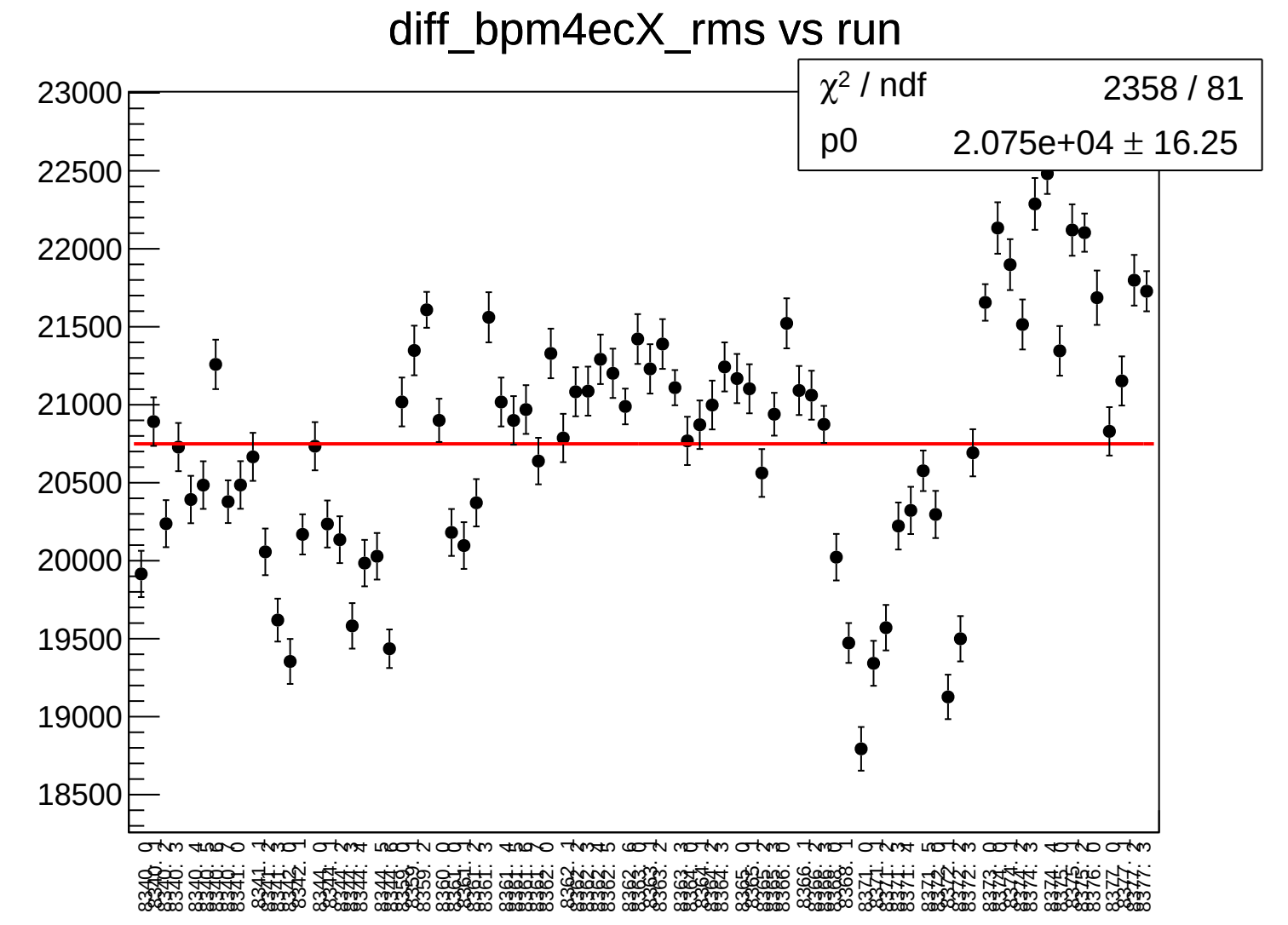

diff_bpm4acY_mean vs run
χ² / ndf 74.48 / 81
p0 18.94 ± 7.614
pull
Entries 82
Mean −60.2
Std Dev 56.24

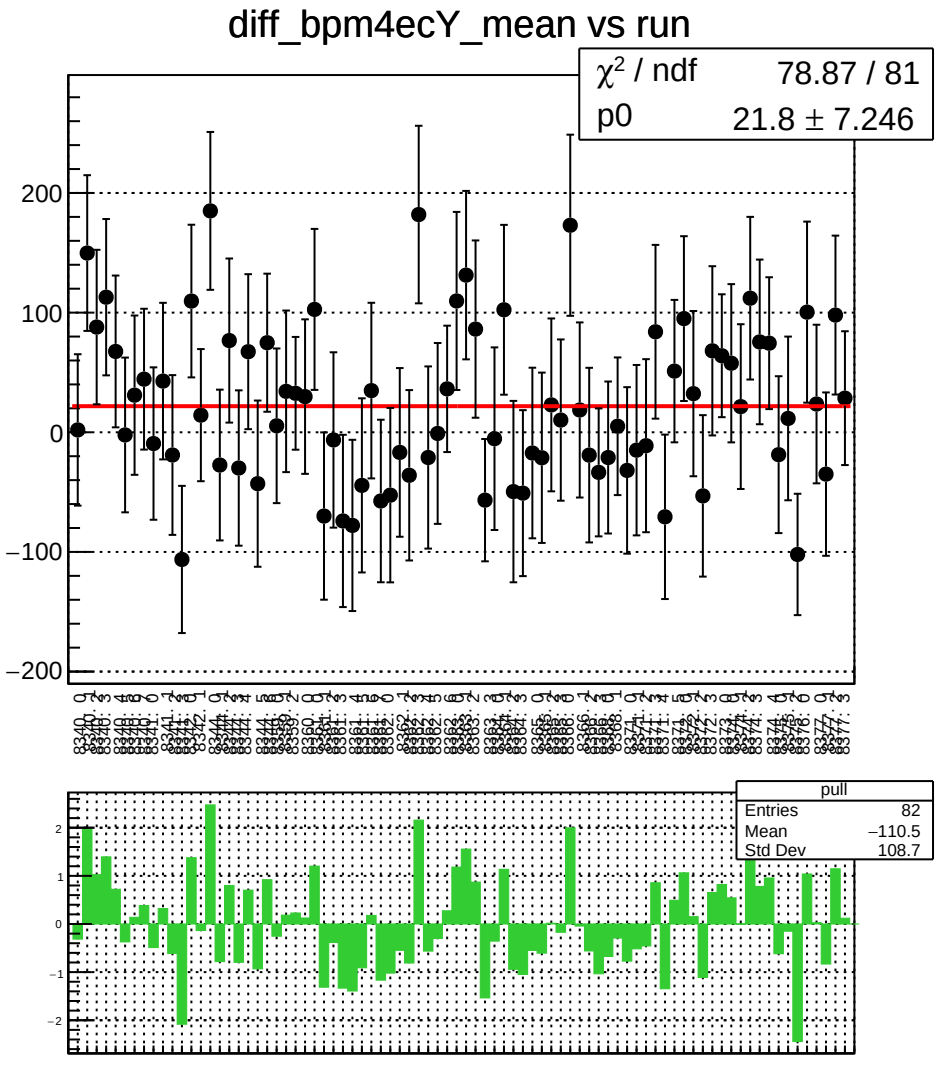

pull1D
Entries 82
Mean 0.01184
Std Dev 0.953

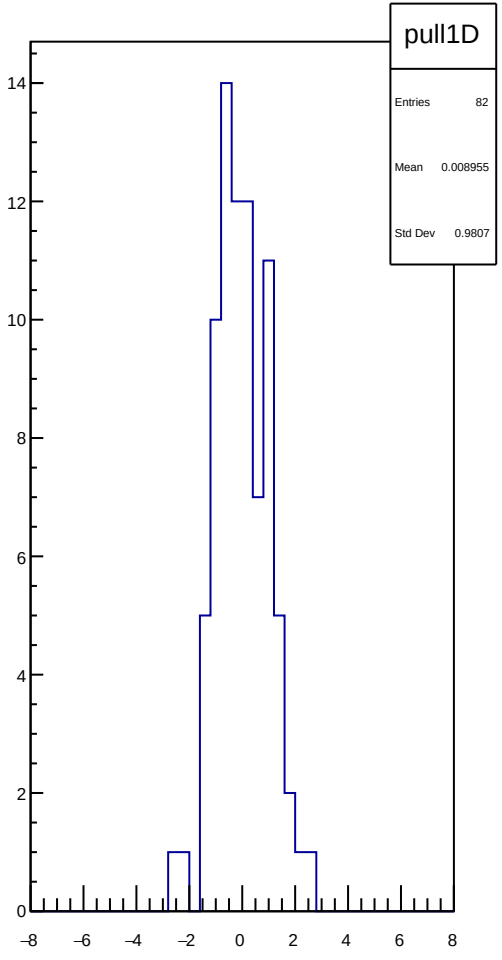

diff_bpm4acY_rms vs run
χ² / ndf 4005 / 81
p0 6872 ± 5.384
7800
7600
7400
7200
7000
6800
6600
6400
6200

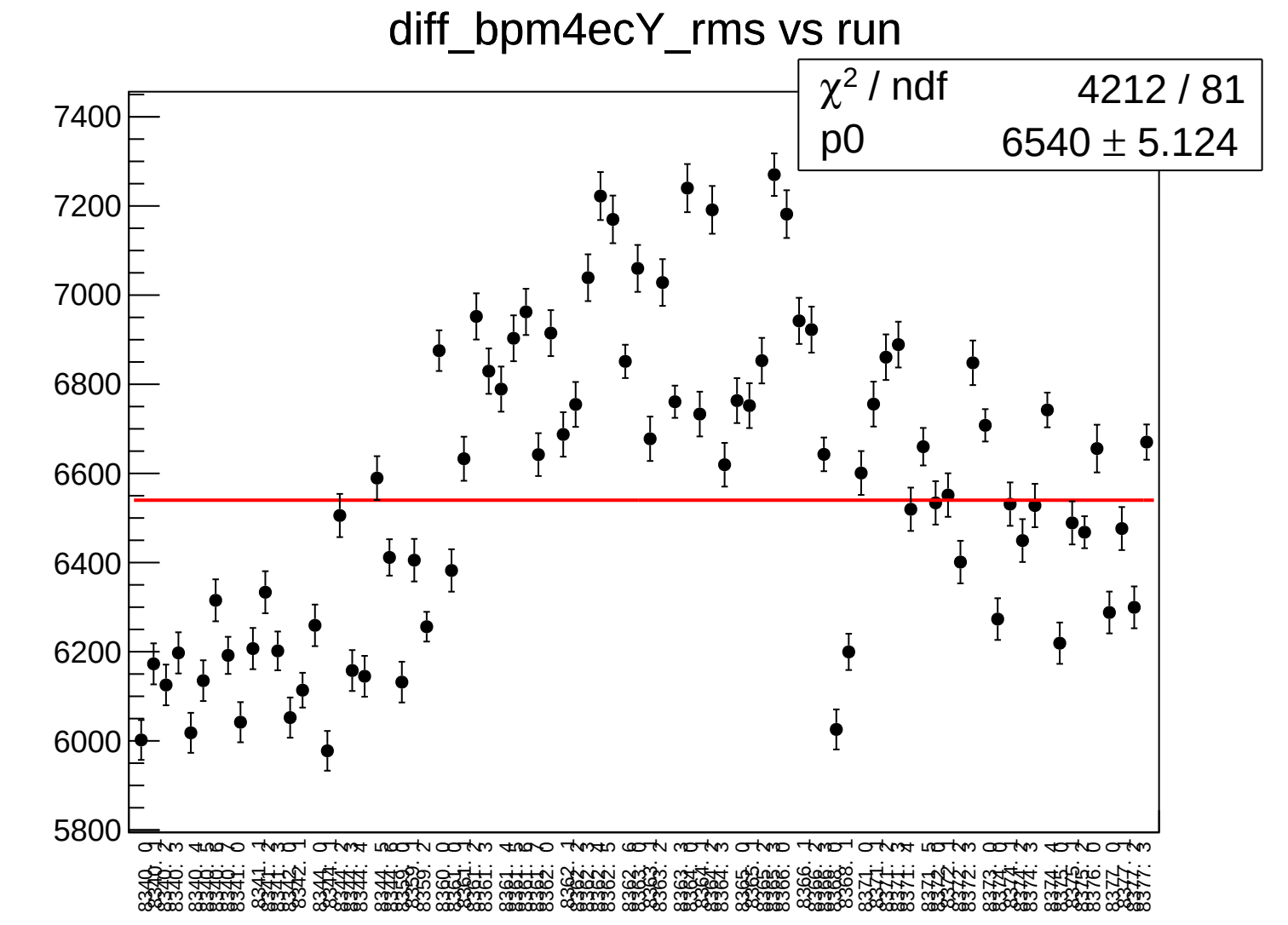

diff_bpm4ecX_mean vs run
χ² / ndf 104 / 81
p0 −33.25 ± 22.98
pull
Entries 82
Mean −41.54
Std Dev 79.34

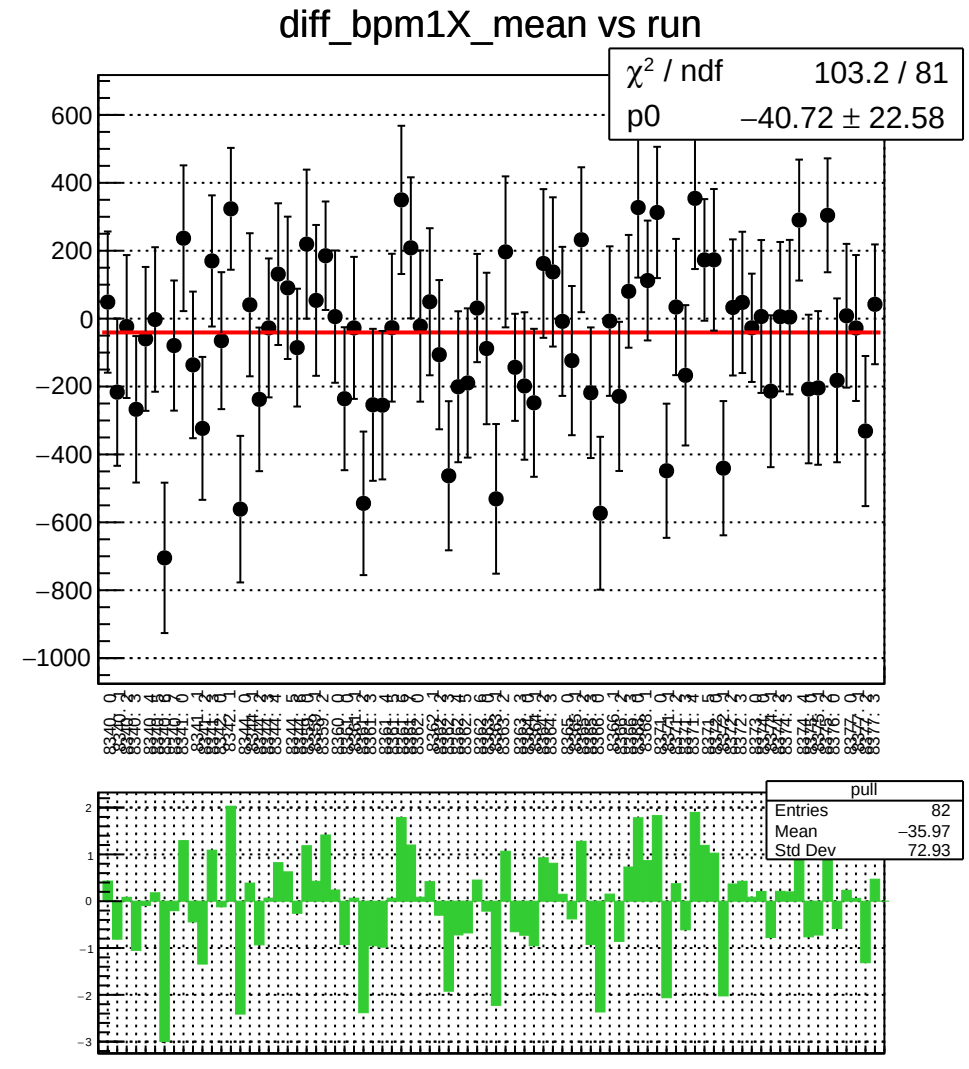

pull1D
Entries 82
Mean −0.03603
Std Dev 1.126

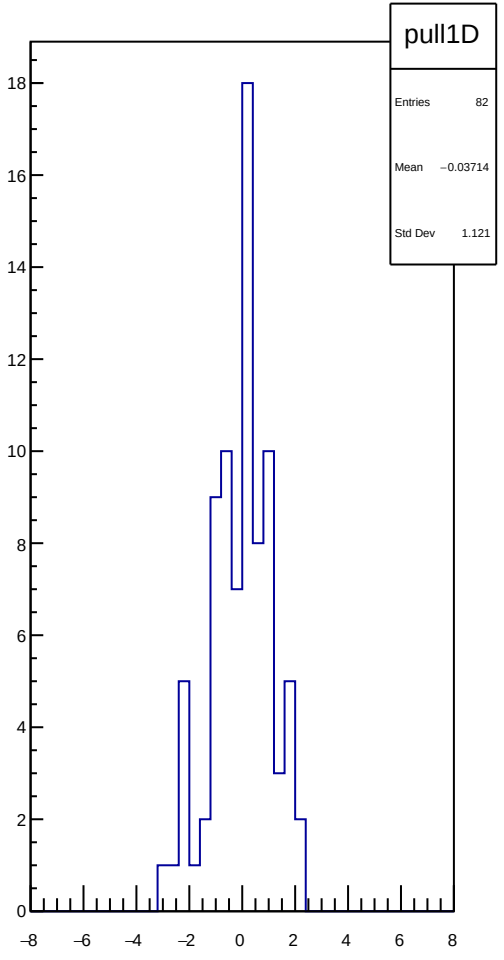

diff_bpm4ecX_rms vs run
χ² / ndf 2358 / 81
p0 2.075e+04 ± 16.25
23000
22500
22000
21500
21000
20500
20000
19500
19000
18500

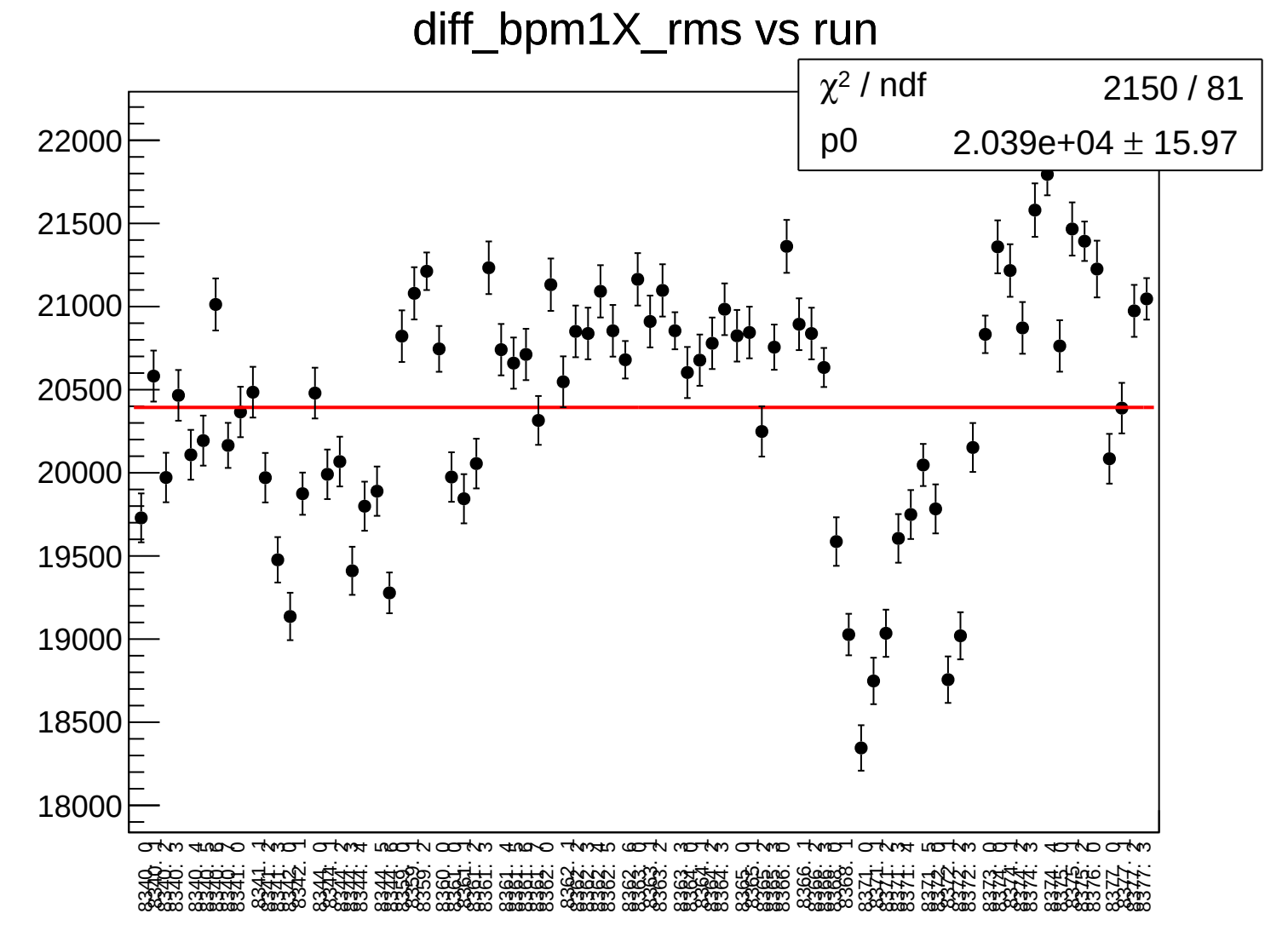

diff_bpm4ecY_mean vs run
χ² / ndf 78.87 / 81
p0 21.8 ± 7.246
pull
Entries 82
Mean −110.5
Std Dev 108.7

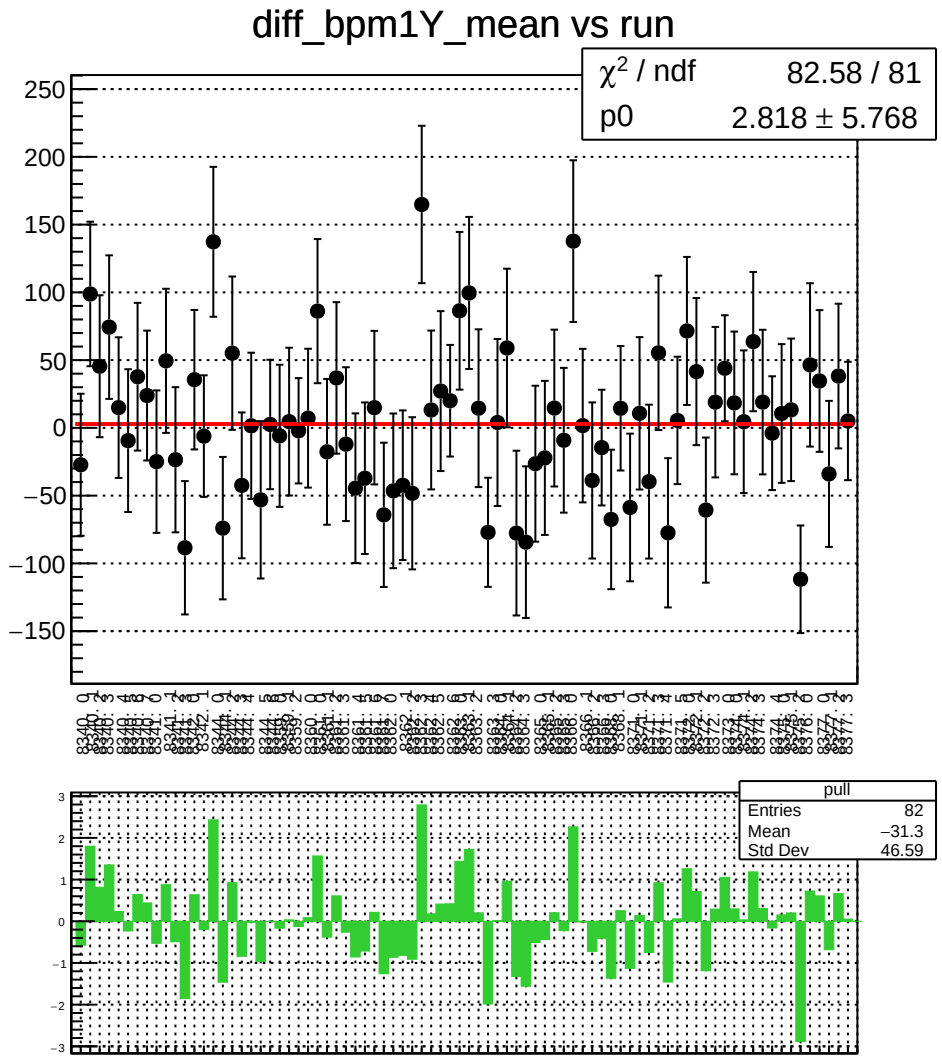

pull1D
Entries 82
Mean 0.008955
Std Dev 0.9807

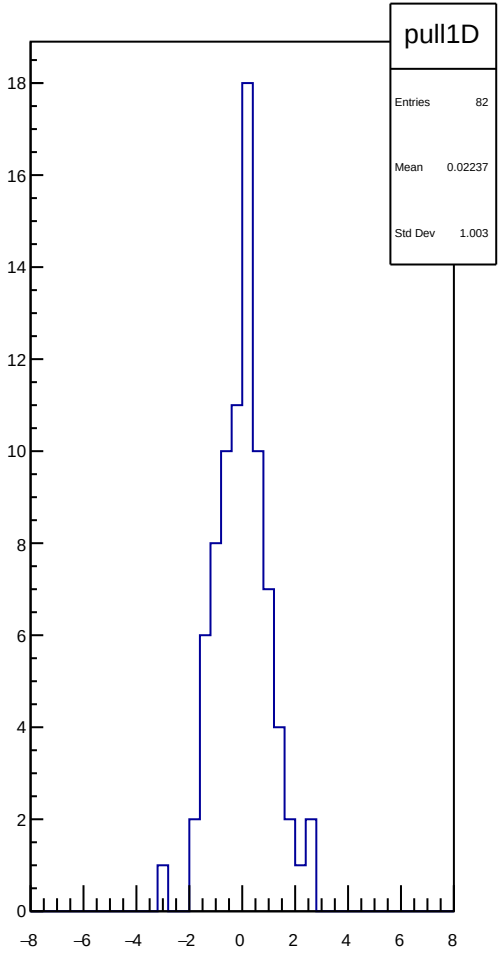

diff_bpm4ecY_rms vs run
χ² / ndf 4212 / 81
p0 6540 ± 5.124
7400
7200
7000
6800
6600
6400
6200
6000
5800

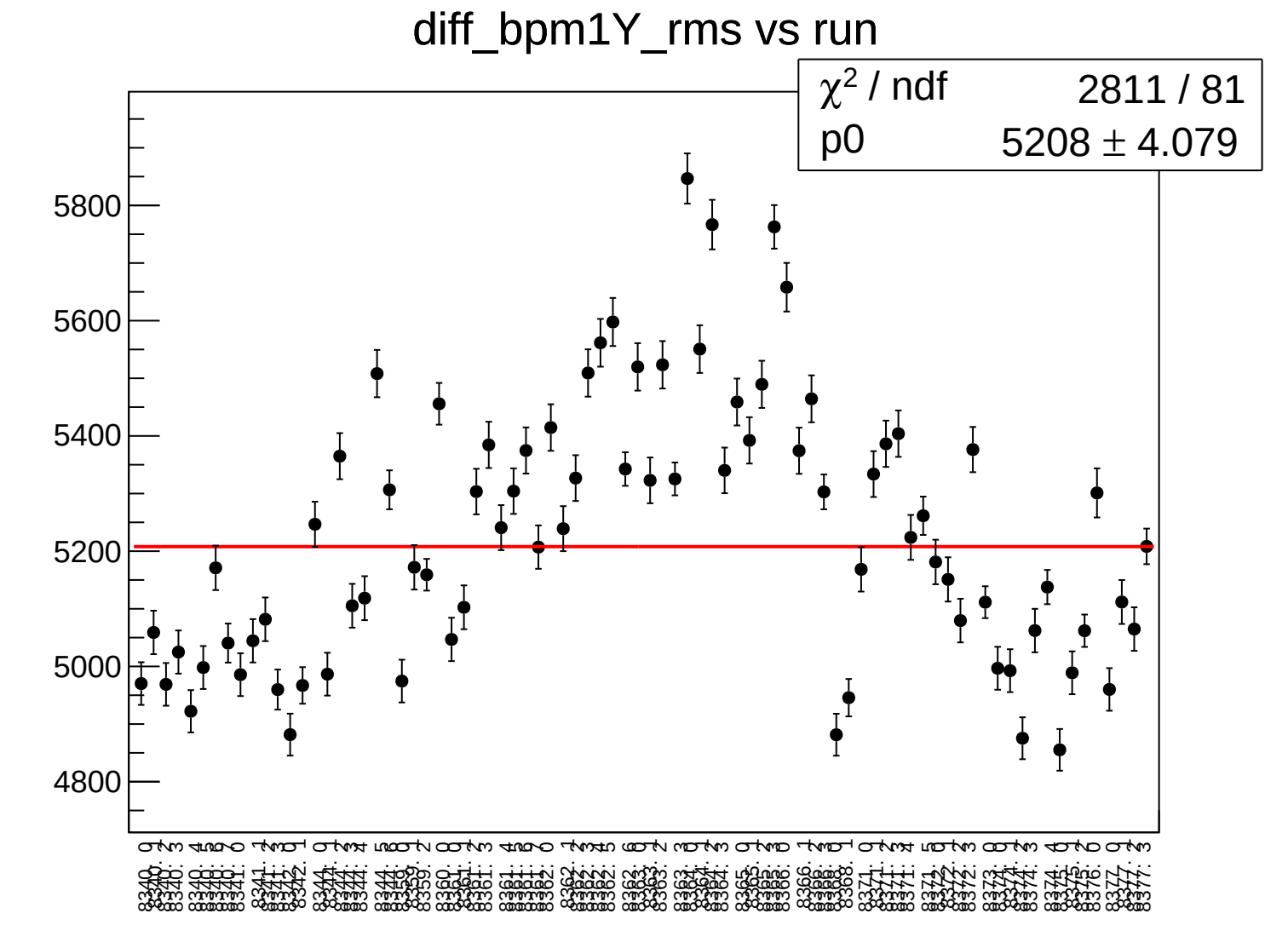

diff_bpm1X_mean vs run
χ^2 / ndf 103.2 / 81
p0 −40.72 ± 22.58
pull
Entries 82
Mean −35.97
Std Dev 72.93

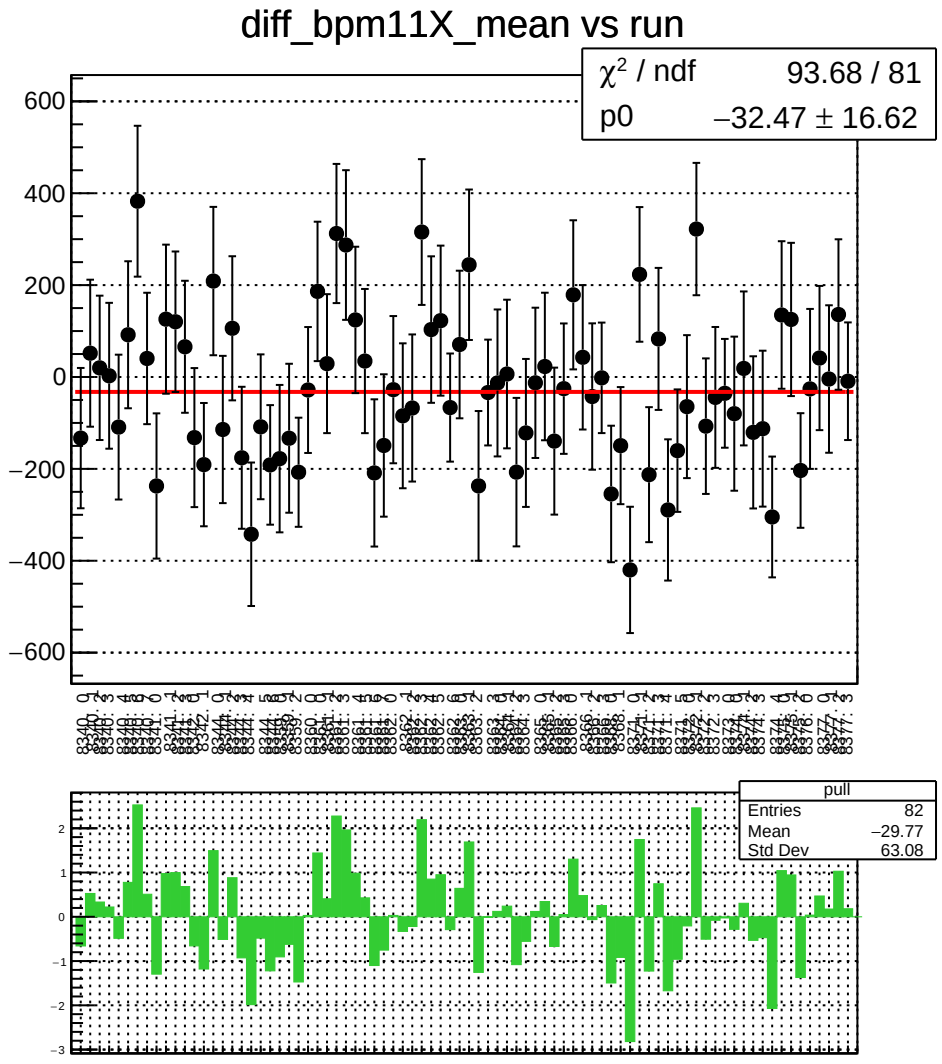

pull1D
Entries 82
Mean −0.03714
Std Dev 1.121

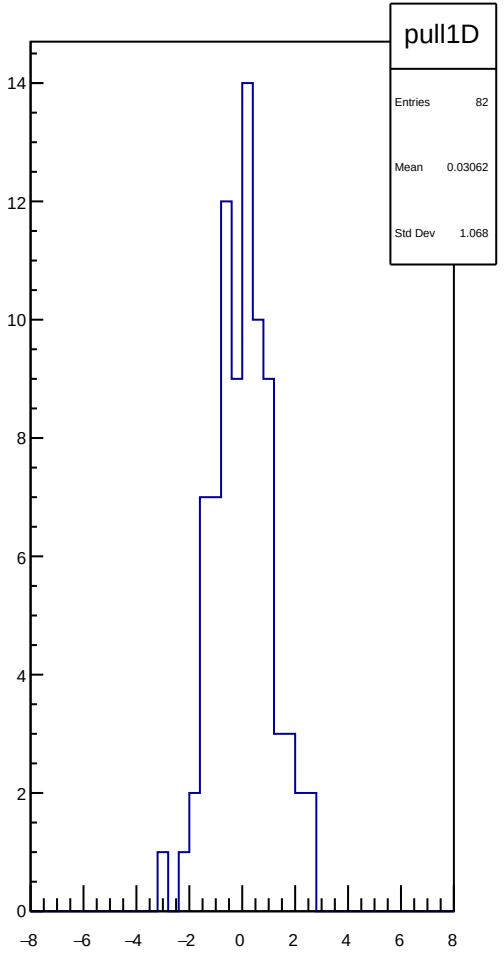

diff_bpm1X_rms vs run
χ² / ndf 2150 / 81
p0 2.039e+04 ± 15.97
22000
21500
21000
20500
20000
19500
19000
18500
18000

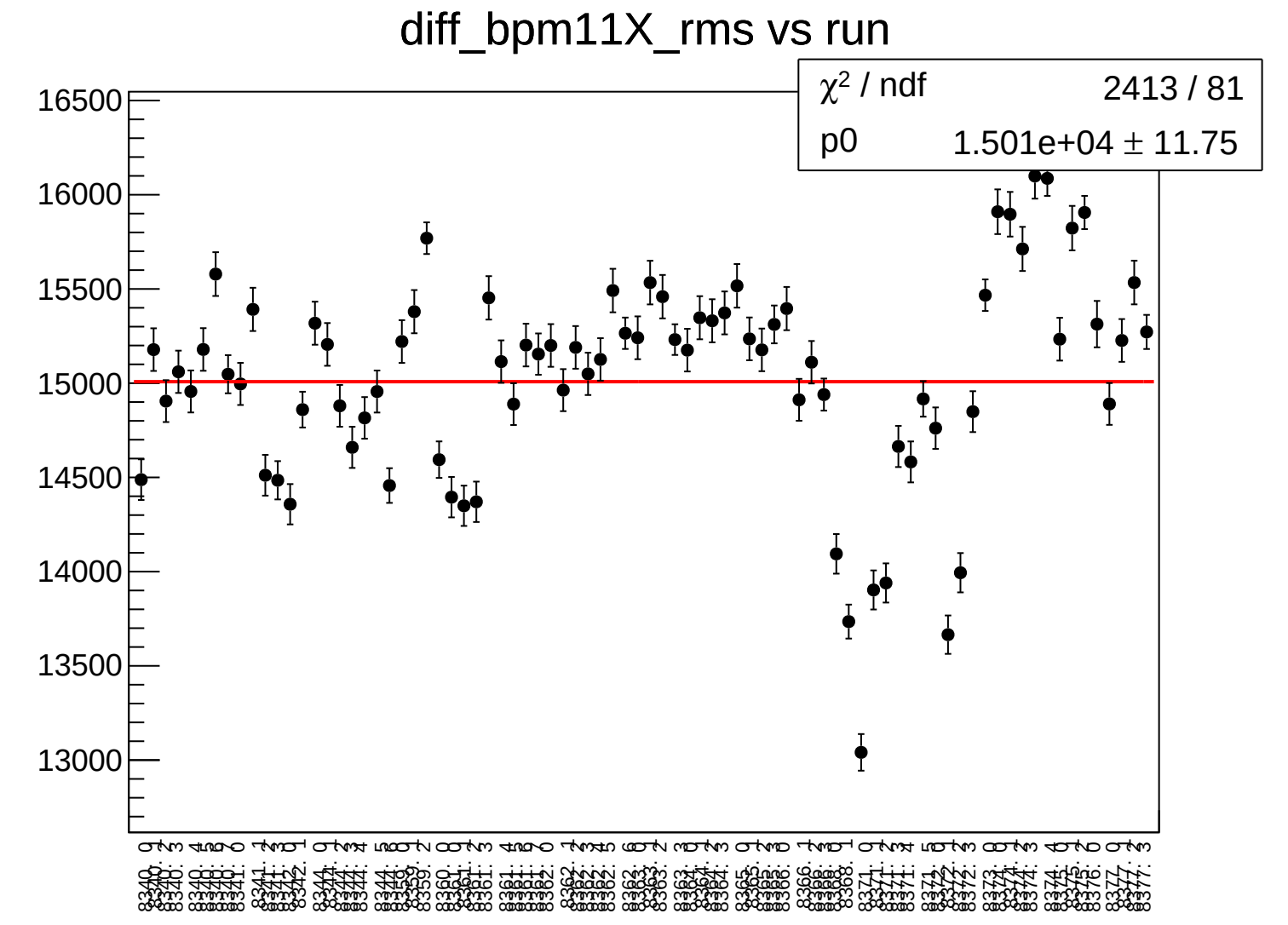

diff_bpm1Y_mean vs run
χ² / ndf 82.58 / 81
p0 2.818 ± 5.768
pull
Entries 82
Mean −31.3
Std Dev 46.59

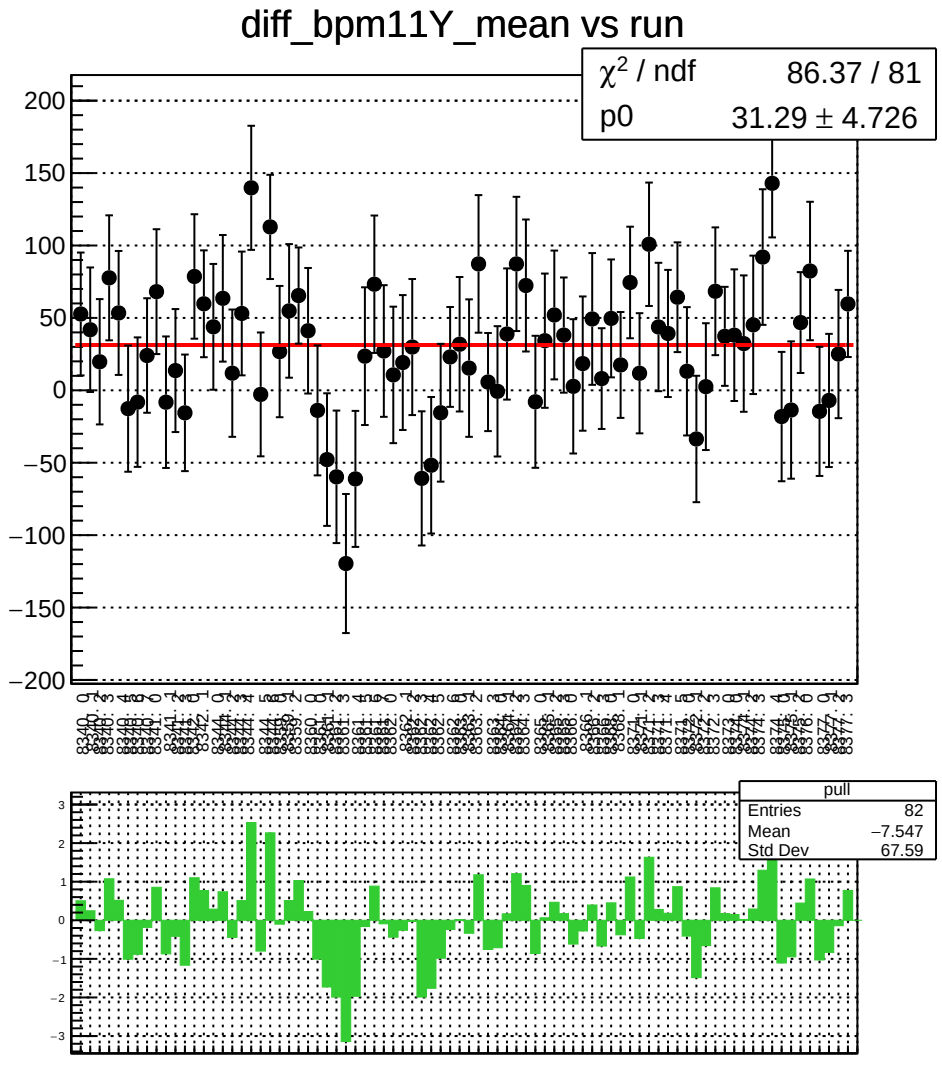

pull1D
Entries 82
Mean 0.02237
Std Dev 1.003

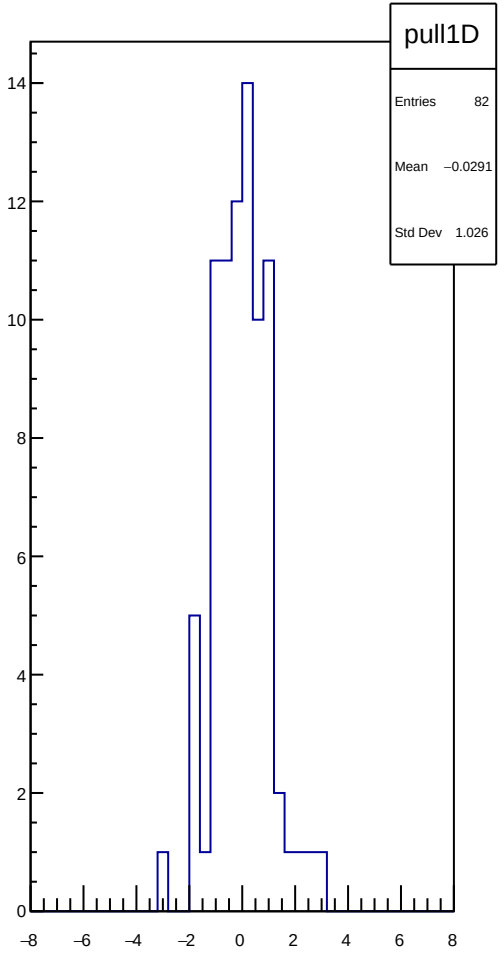

diff_bpm1Y_rms vs run
χ² / ndf 2811 / 81
p0 5208 ± 4.079
5800
5600
5400
5200
5000
4800

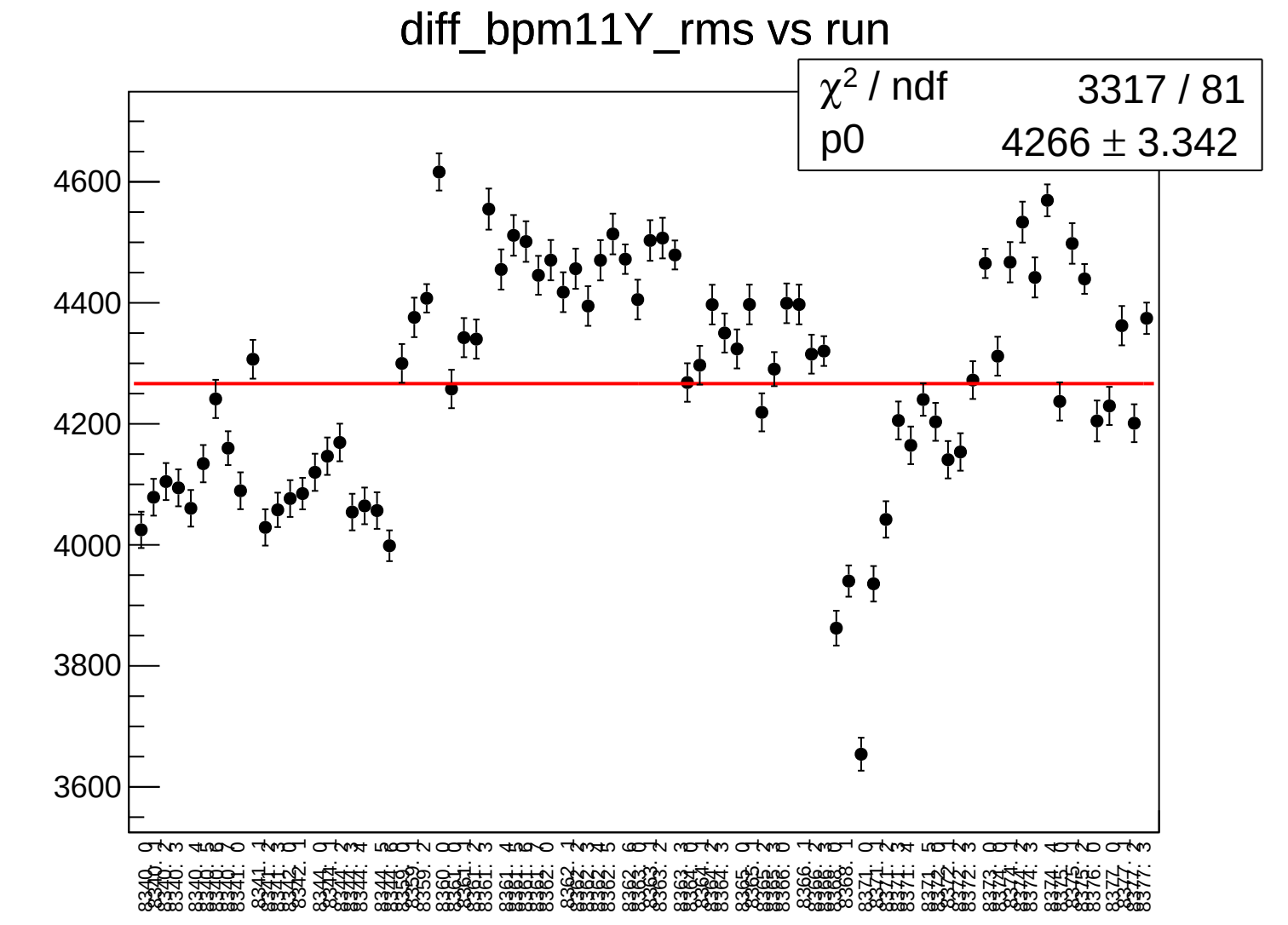

diff_bpm11X_mean vs run
χ^2 / ndf 93.68 / 81
p0 −32.47 ± 16.62
pull
Entries 82
Mean −29.77
Std Dev 63.08

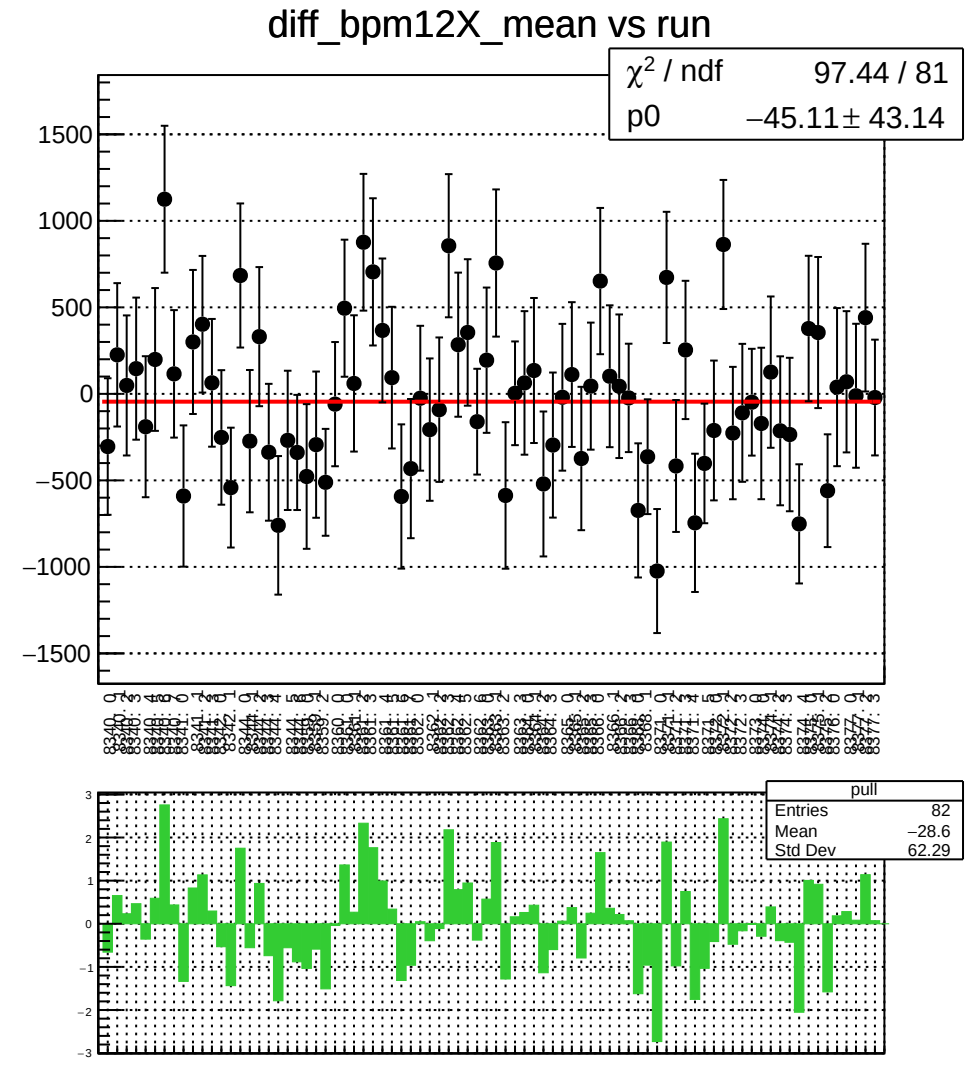

pull1D
Entries 82
Mean 0.03062
Std Dev 1.068

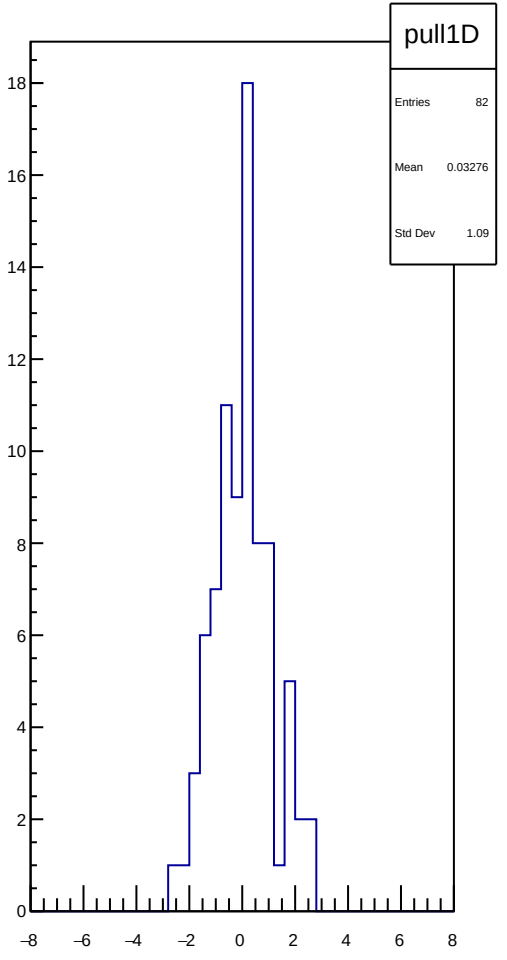

diff_bpm11X_rms vs run
χ² / ndf 2413 / 81
p0 1.501e+04 ± 11.75
16500
16000
15500
15000
14500
14000
13500
13000

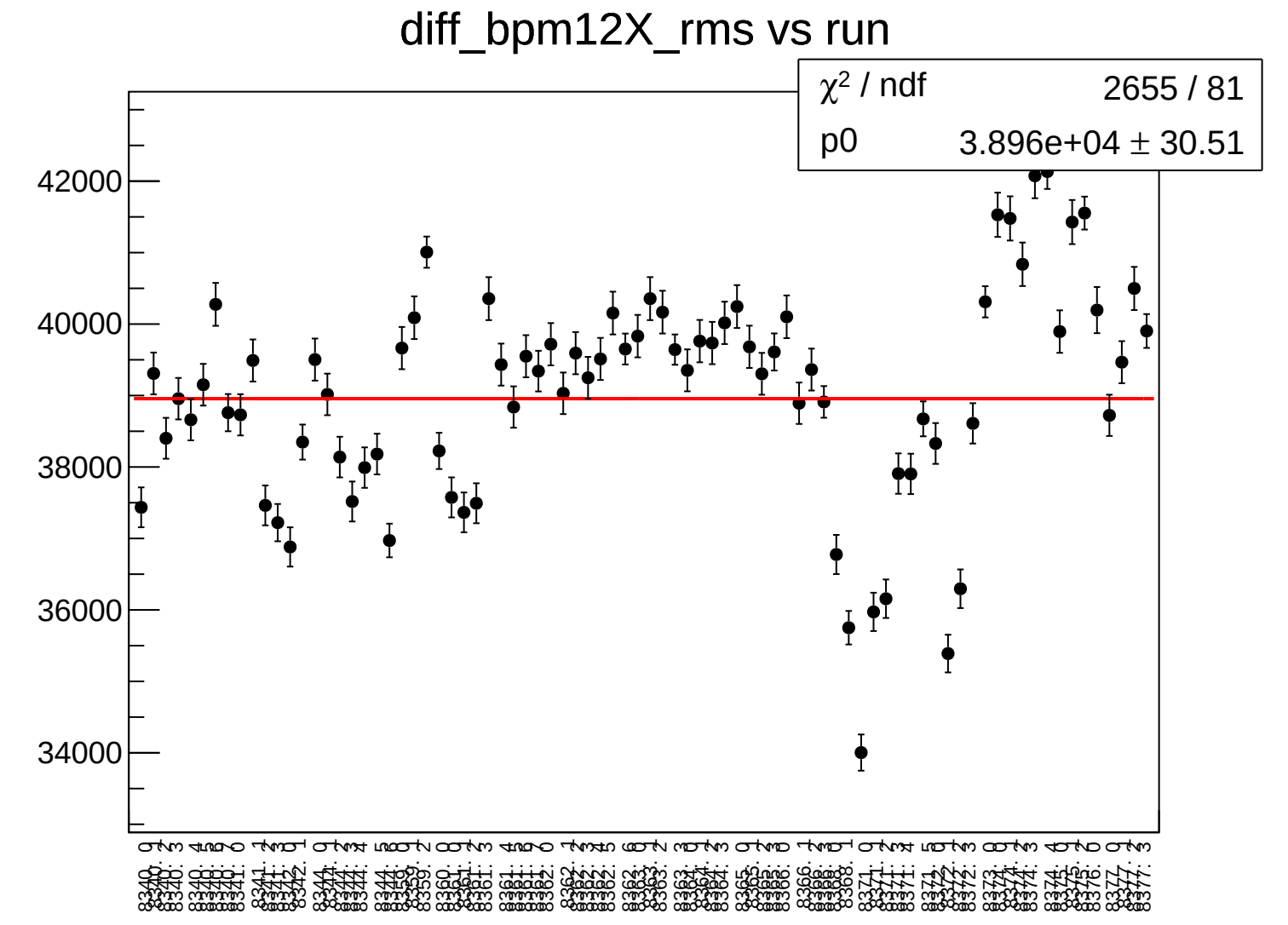

diff_bpm11Y_mean vs run
χ^2 / ndf 86.37 / 81
p0 31.29 ± 4.726
pull
Entries 82
Mean −7.547
Std Dev 67.59

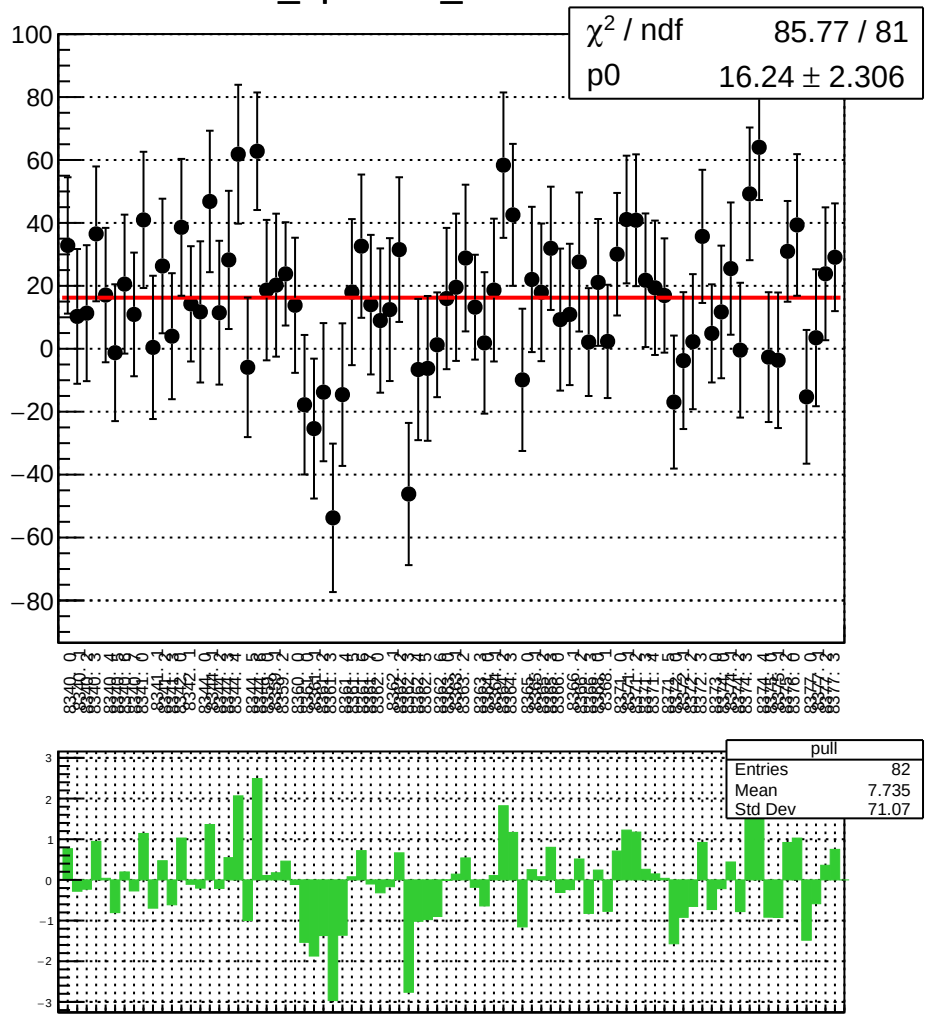

pull1D
Entries 82
Mean −0.0291
Std Dev 1.026

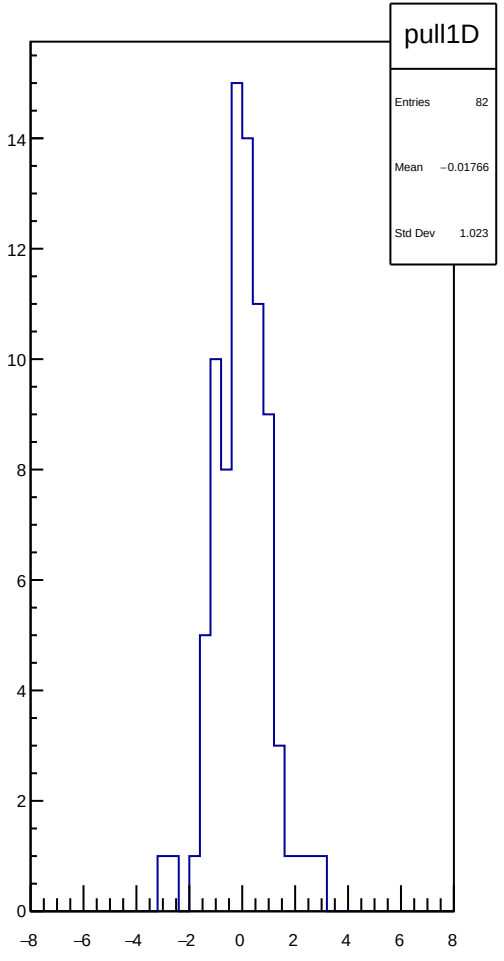

diff_bpm11Y_rms vs run
χ² / ndf 3317 / 81
p0 4266 ± 3.342
4600
4400
4200
4000
3800
3600

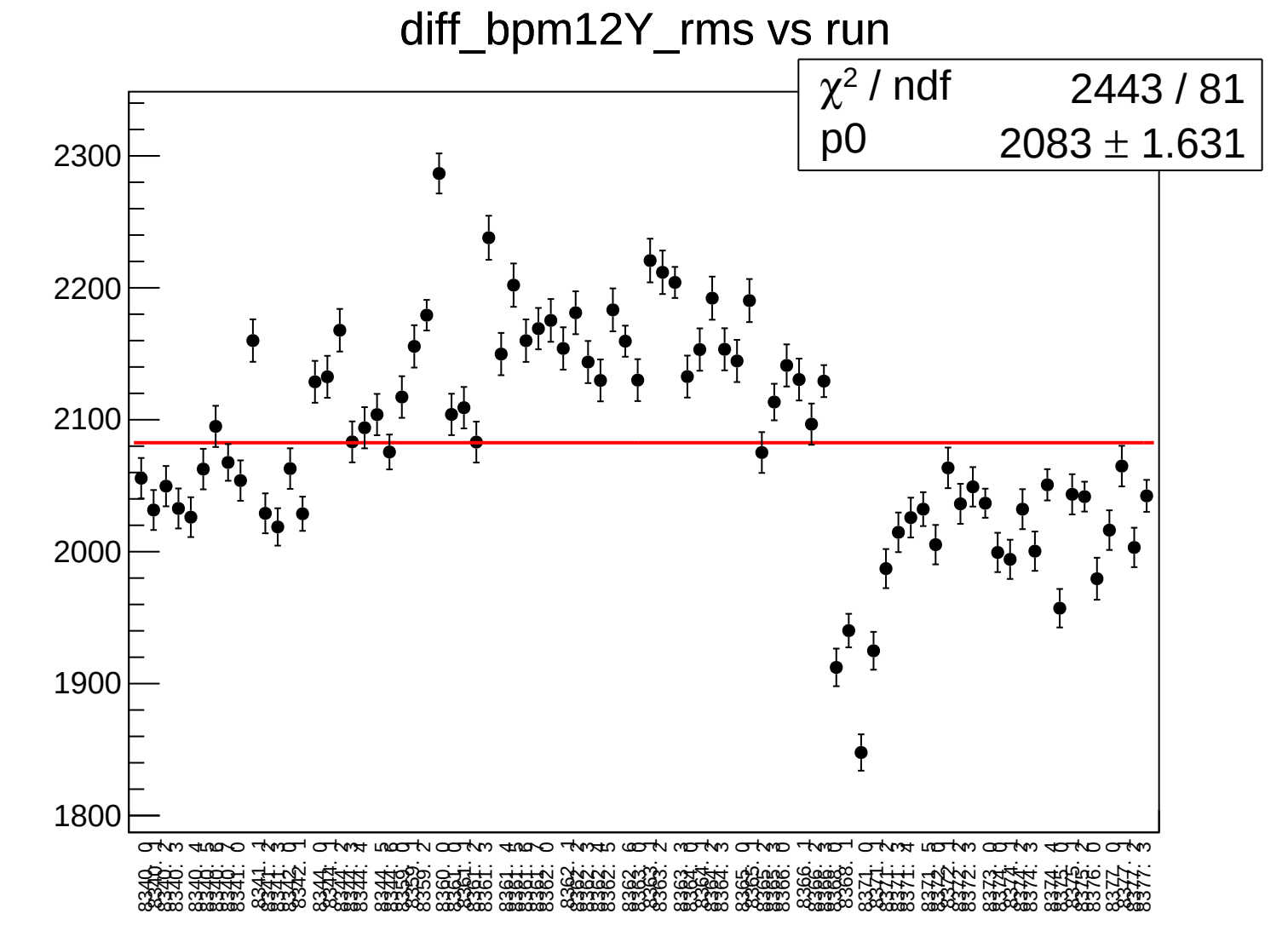

diff_bpm12X_mean vs run
χ² / ndf 97.44 / 81
p0 −45.11 ± 43.14
pull
Entries 82
Mean −28.6
Std Dev 62.29

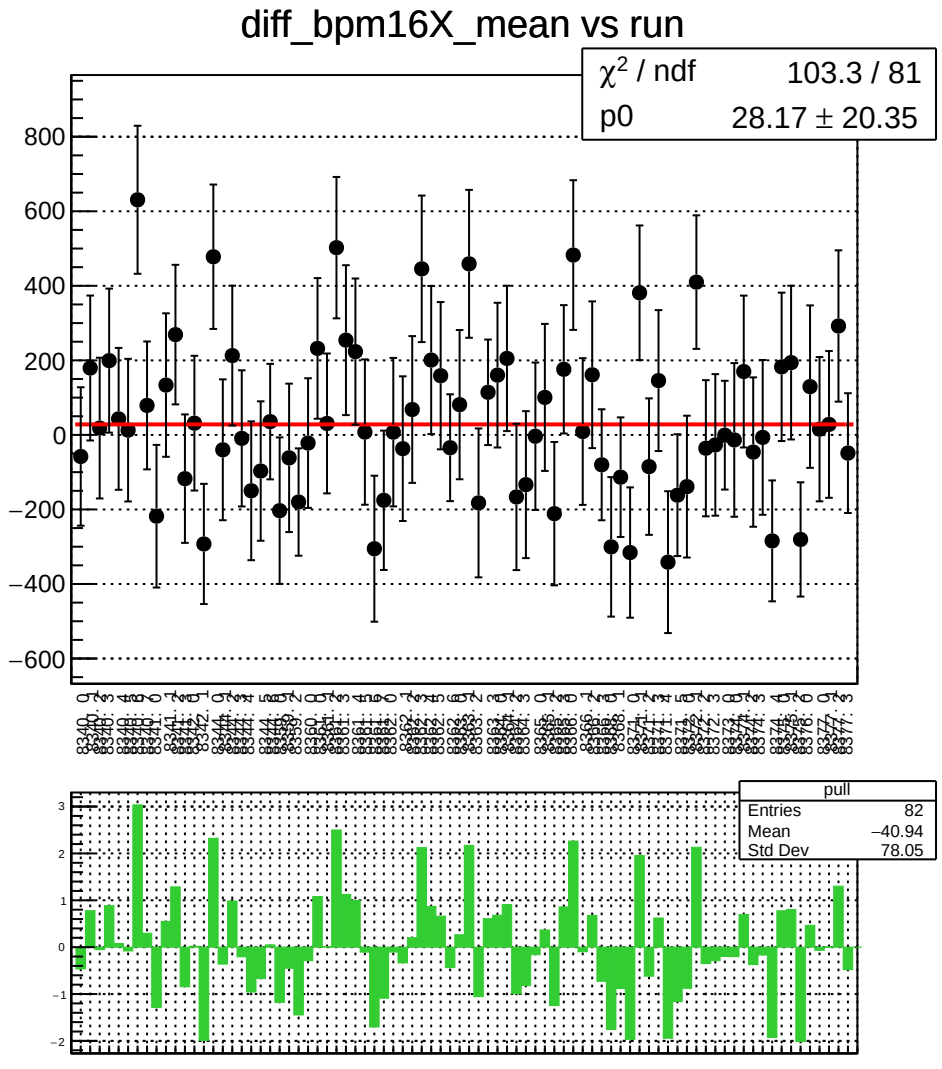

pull1D
Entries 82
Mean 0.03276
Std Dev 1.09

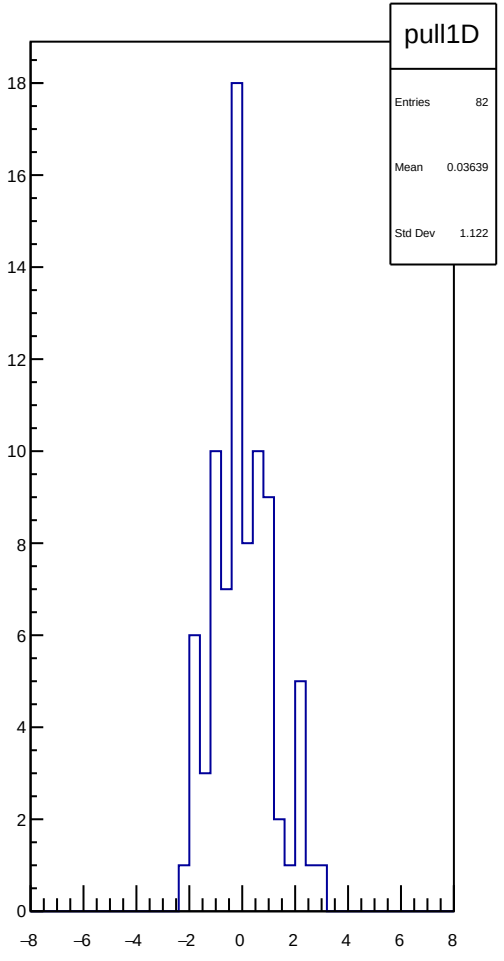

diff_bpm12X_rms vs run
χ² / ndf 2655 / 81
p0 3.896e+04 ± 30.51
42000
40000
38000
36000
34000

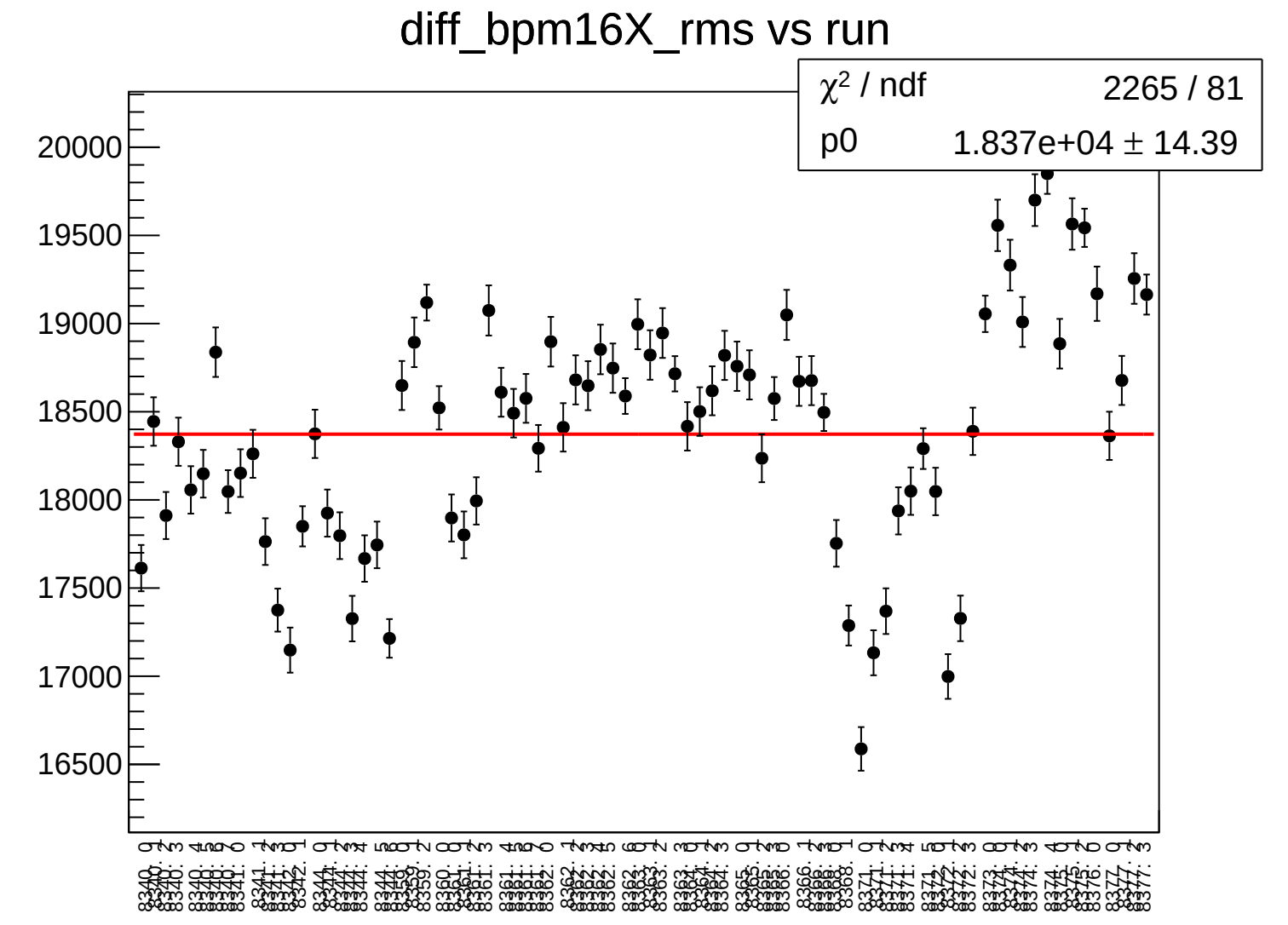

diff_bpm12Y_mean vs run
χ^2 / ndf 85.77 / 81
p0 16.24 ± 2.306
pull
Entries 82
Mean 7.735
Std Dev 71.07

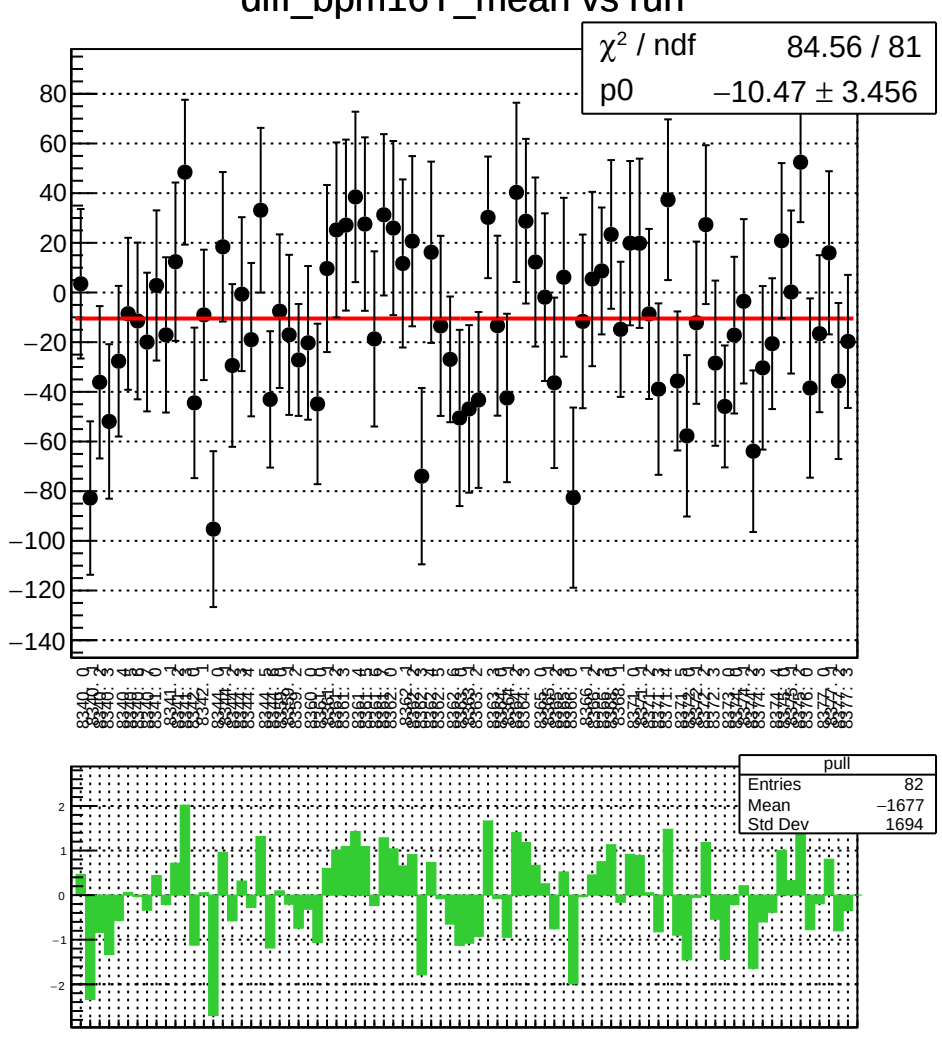

pull1D
Entries 82
Mean −0.01766
Std Dev 1.023

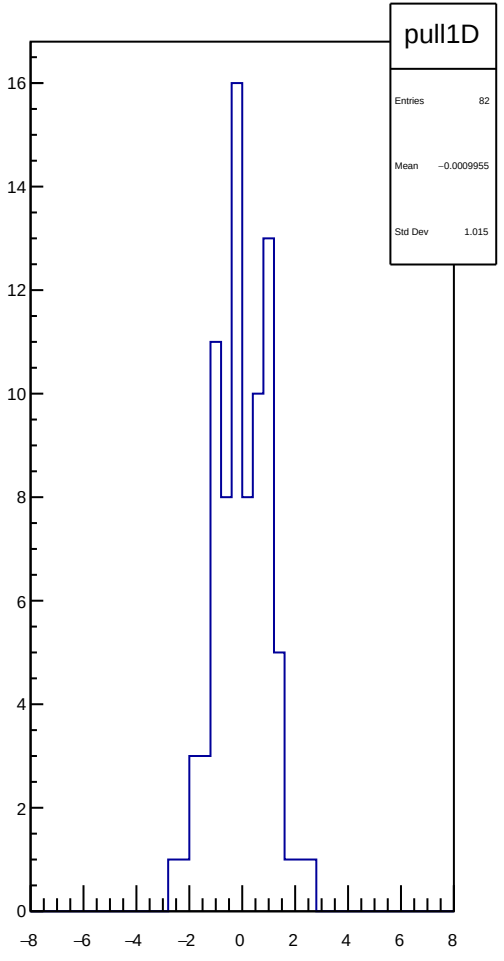

diff_bpm12Y_rms vs run
χ² / ndf 2443 / 81
p0 2083 ± 1.631
2300
2200
2100
2000
1900
1800

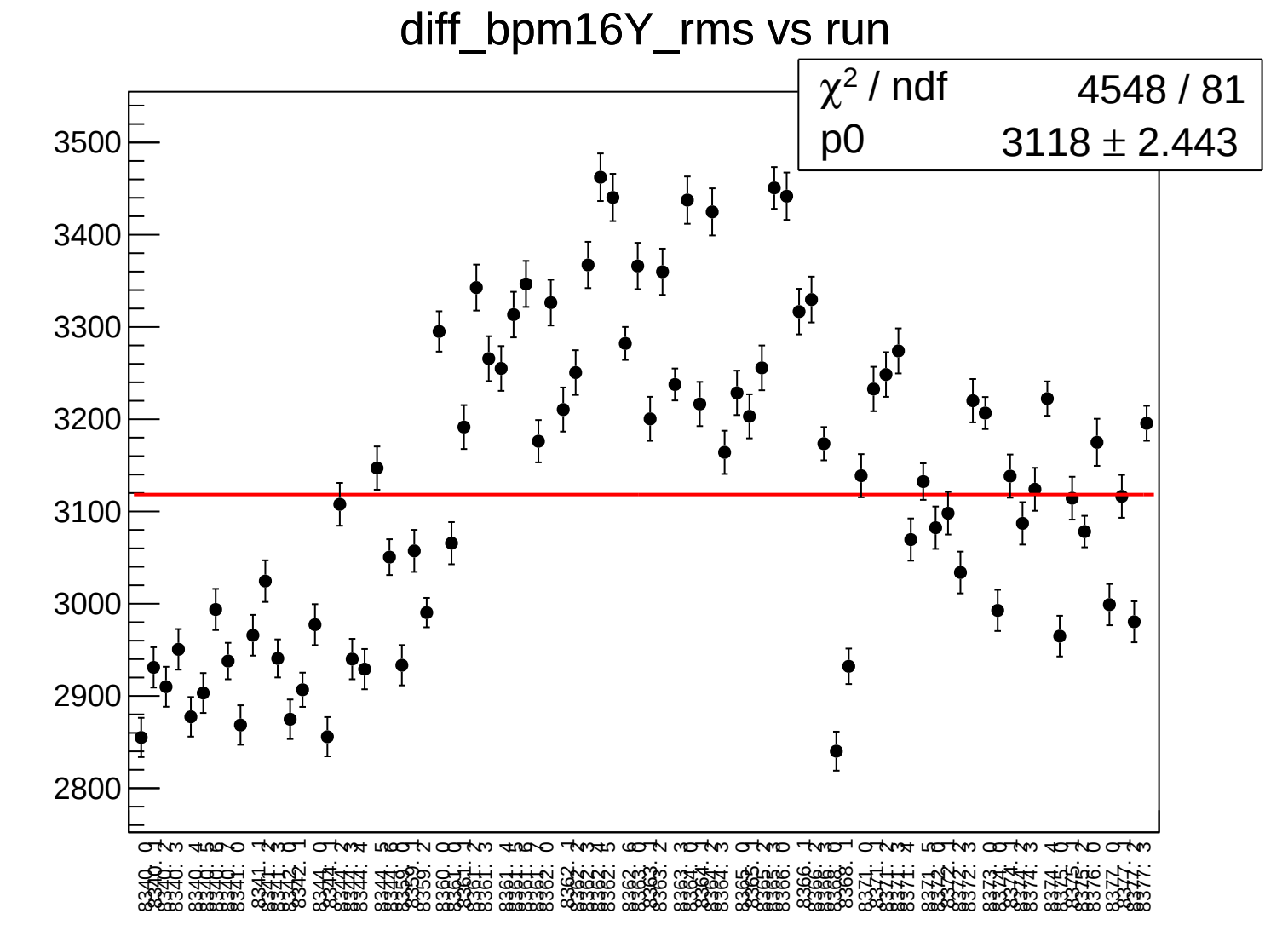

diff_bpm16X_mean vs run
χ² / ndf 103.3 / 81
p0 28.17 ± 20.35
pull
Entries 82
Mean −40.94
Std Dev 78.05

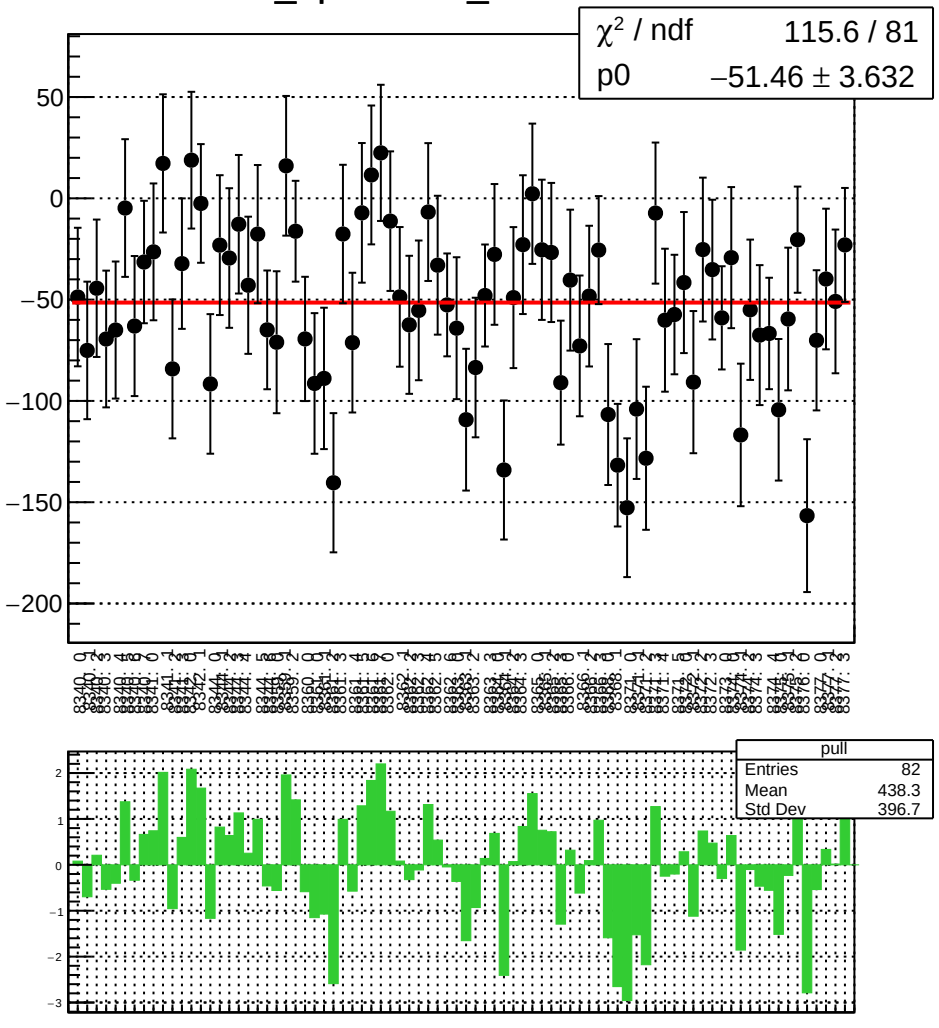

pull1D
Entries 82
Mean 0.03639
Std Dev 1.122

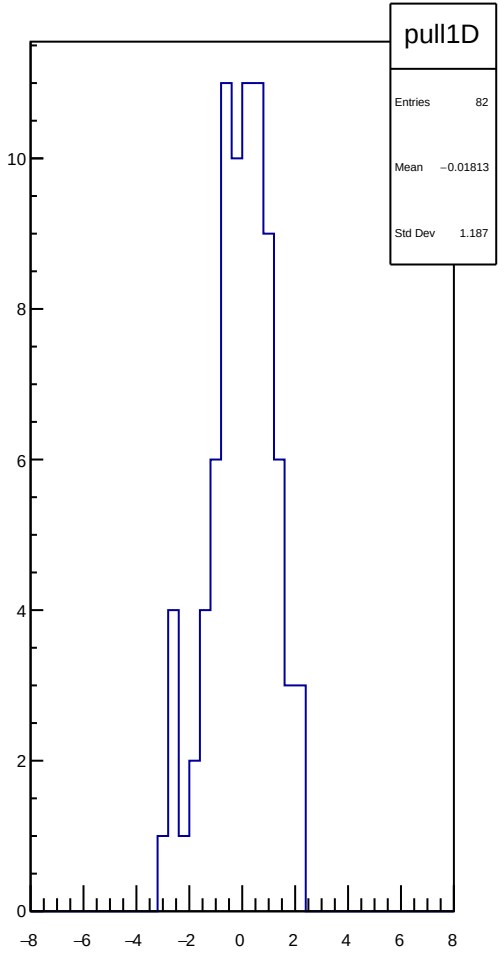

diff_bpm16X_rms vs run
χ² / ndf 2265 / 81
p0 1.837e+04 ± 14.39
20000
19500
19000
18500
18000
17500
17000
16500

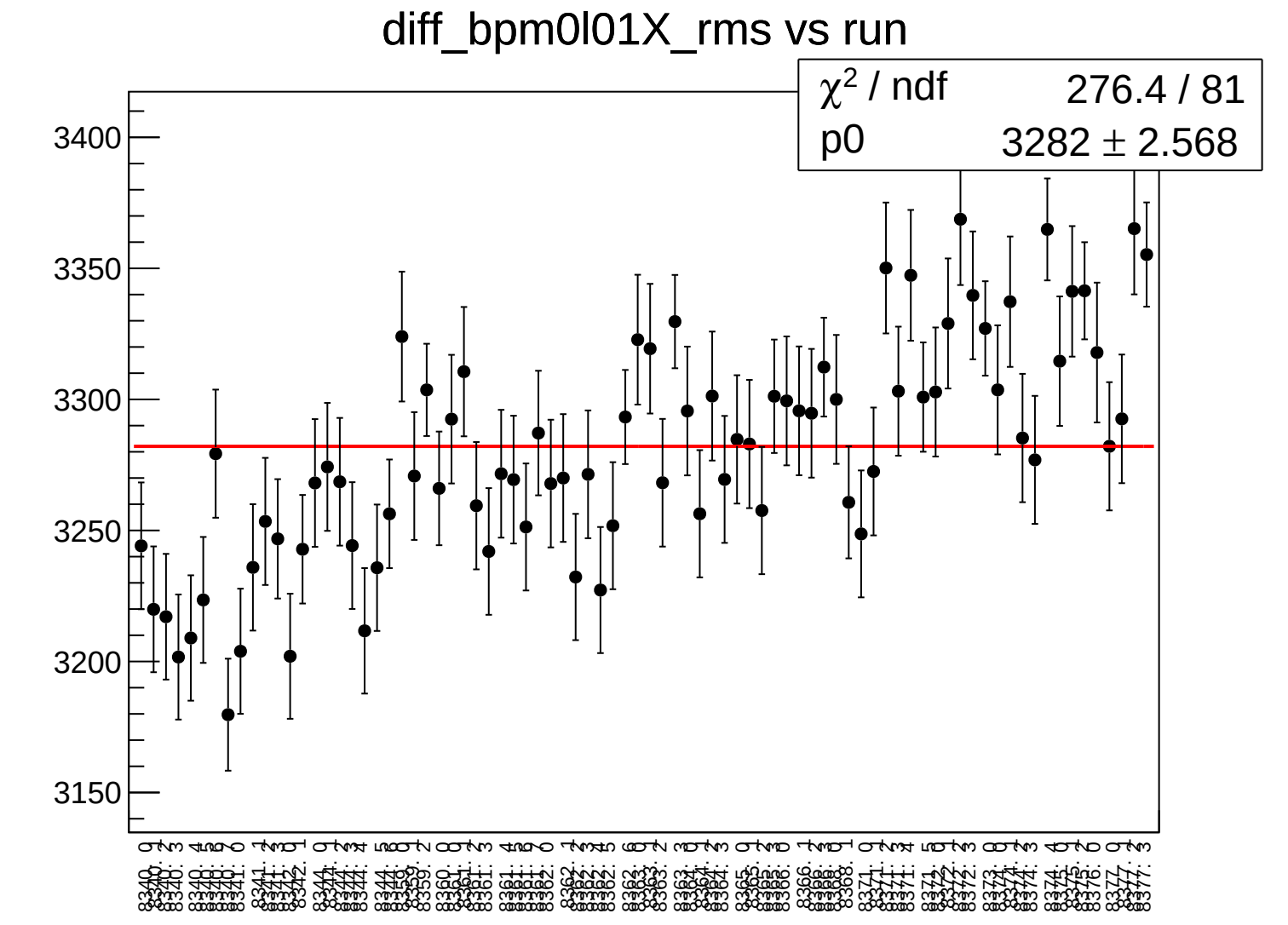

diff_bpm16Y_mean vs run
χ^2 / ndf 84.56 / 81
p0 −10.47 ± 3.456
pull
Entries 82
Mean −1677
Std Dev 1694

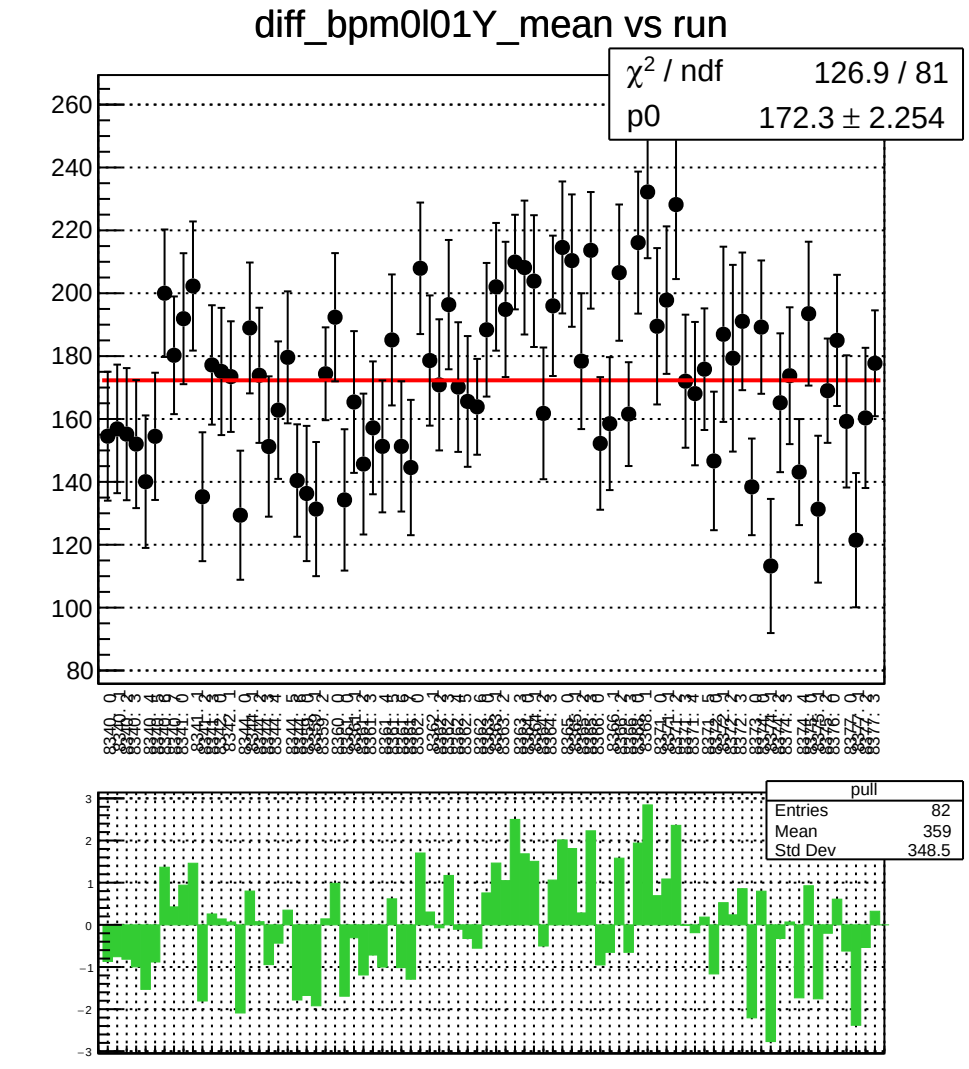

pull1D
Entries 82
Mean −0.0009955
Std Dev 1.015

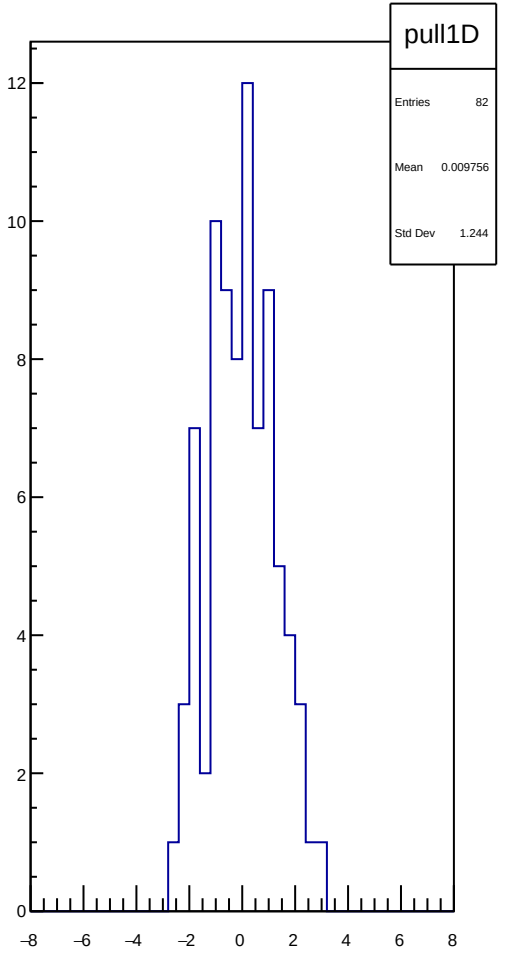

diff_bpm16Y_rms vs run
χ² / ndf 4548 / 81
p0 3118 ± 2.443
3500
3400
3300
3200
3100
3000
2900
2800

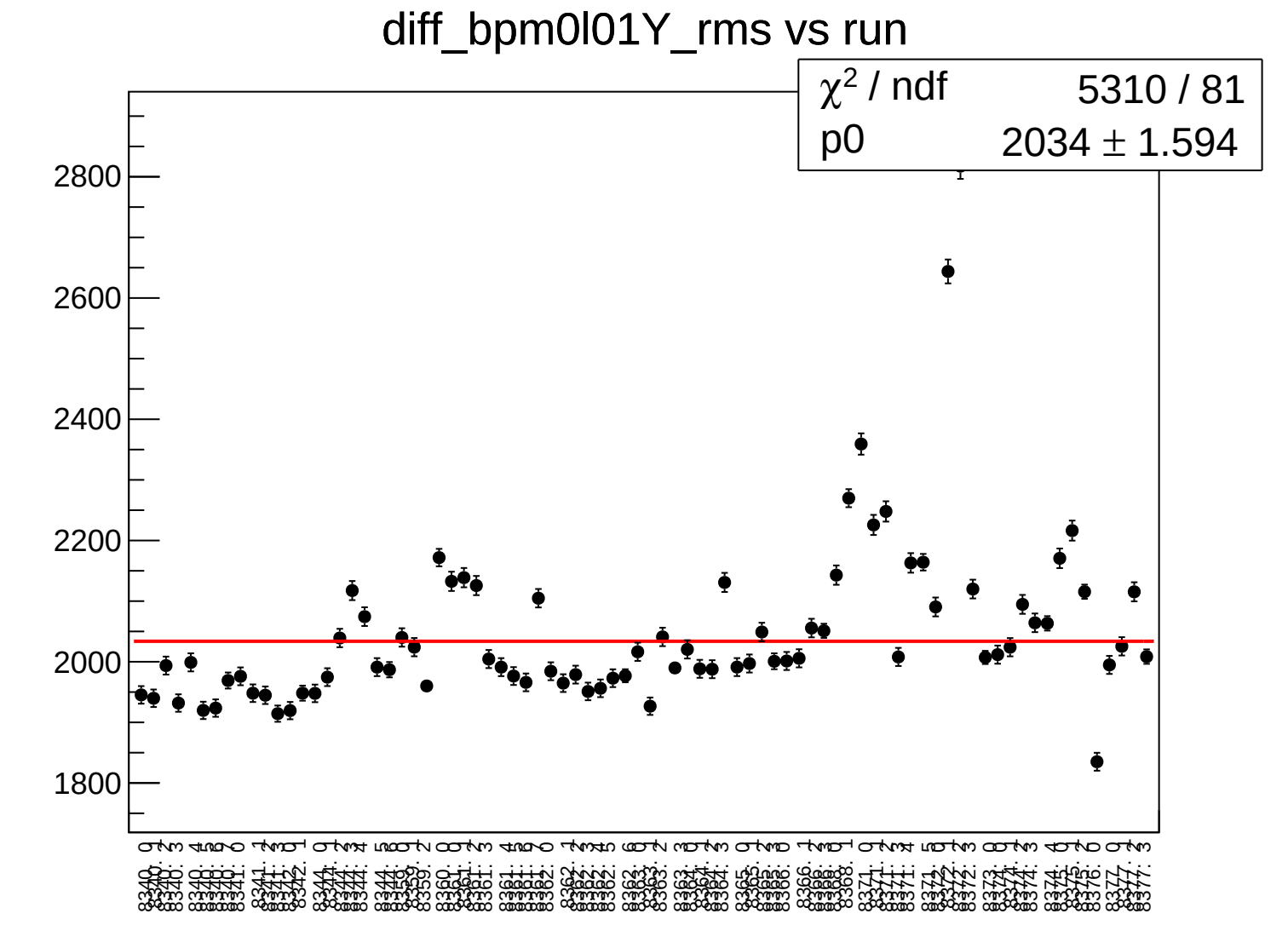

diff_bpm0l01X_mean vs run
χ² / ndf 115.6 / 81
p0 −51.46 ± 3.632
pull
Entries 82
Mean 438.3
Std Dev 396.7

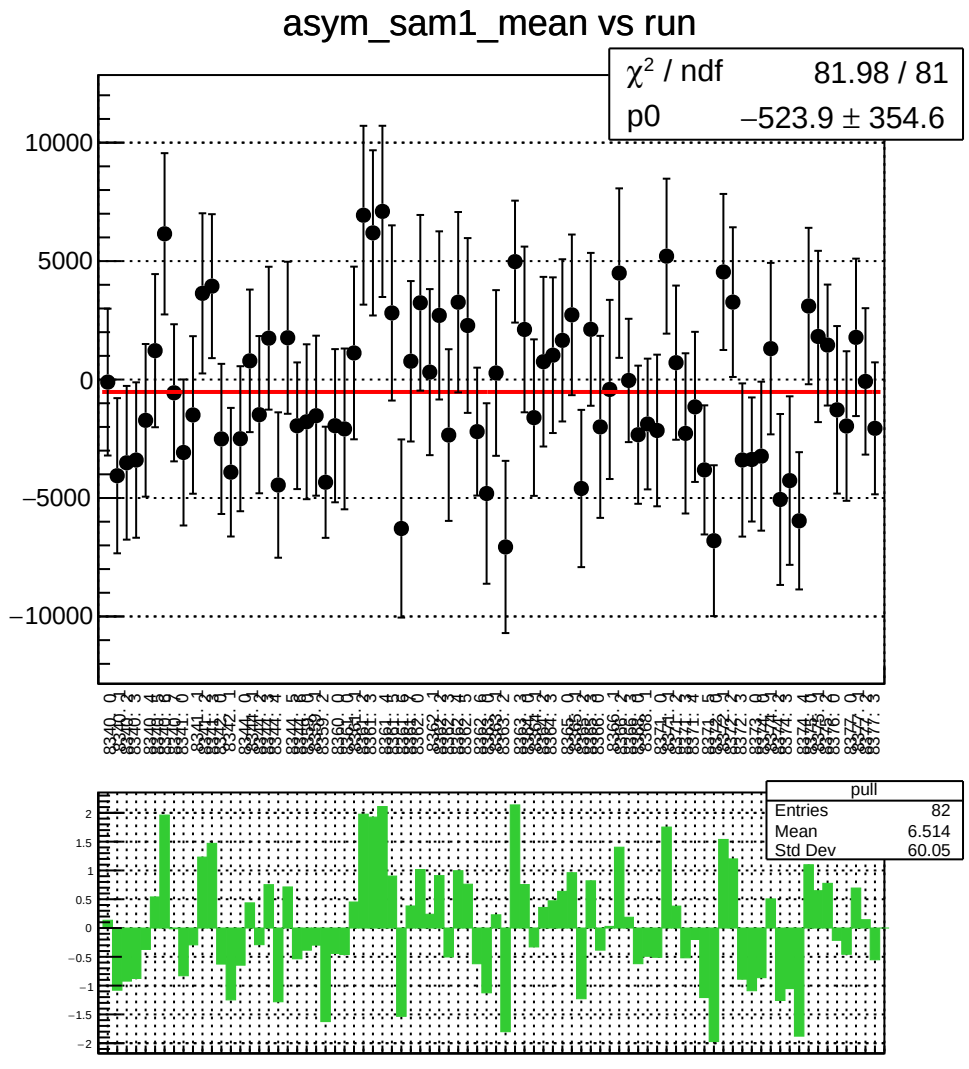

pull1D
Entries 82
Mean −0.01813
Std Dev 1.187

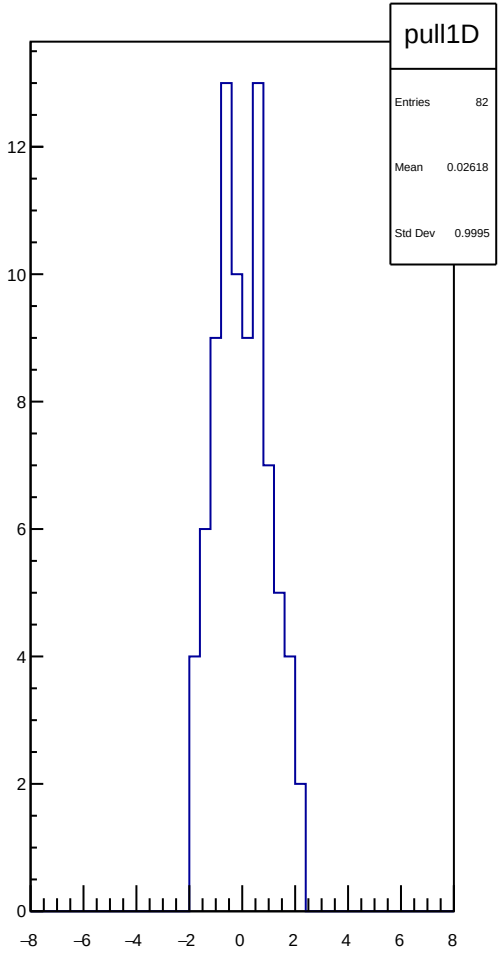

diff_bpm0l01X_rms vs run
χ² / ndf 276.4 / 81
p0 3282 ± 2.568
3400
3350
3300
3250
3200
3150

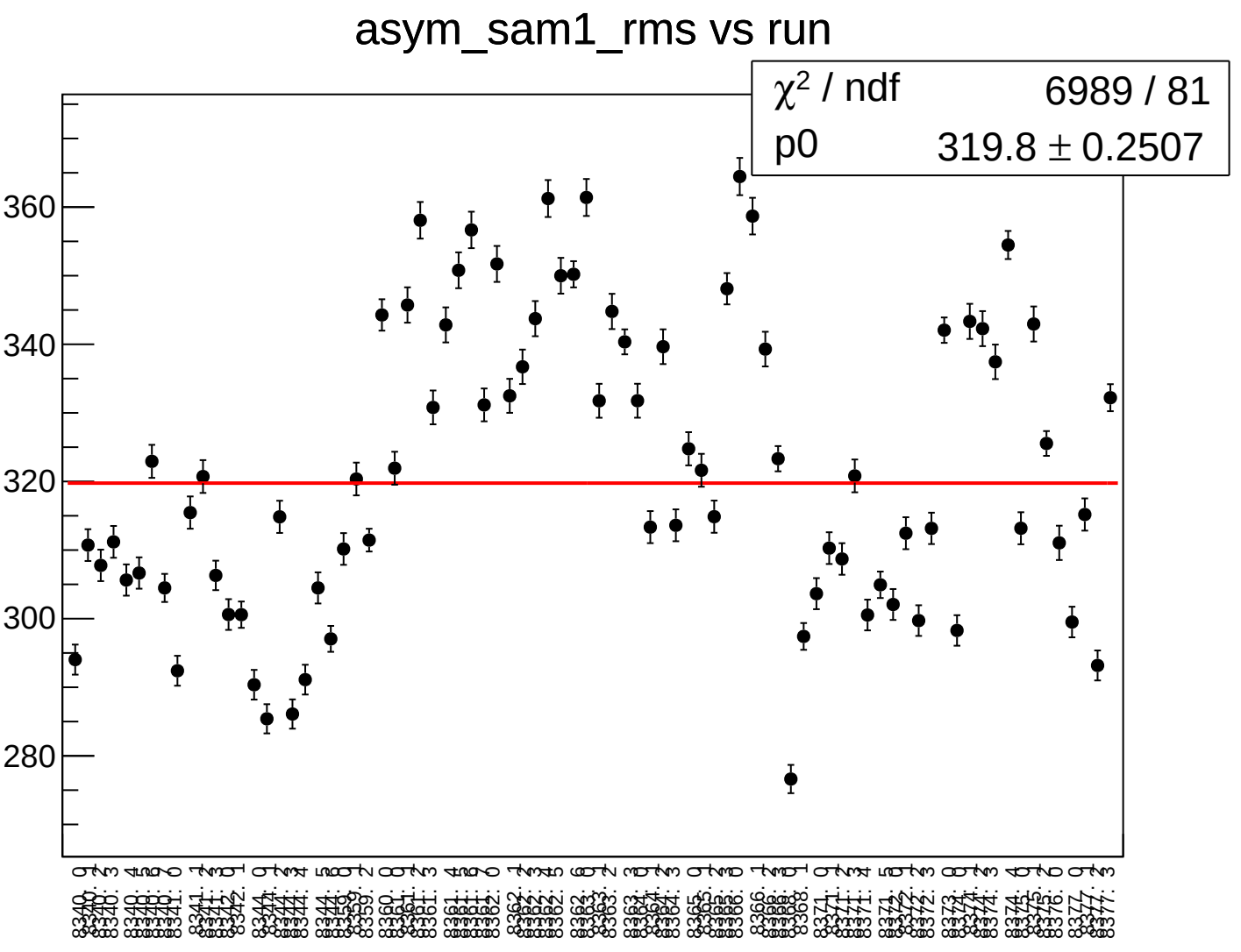

diff_bpm0l01Y_mean vs run
χ^2 / ndf 126.9 / 81
p0 172.3 ± 2.254
pull
Entries 82
Mean 359
Std Dev 348.5

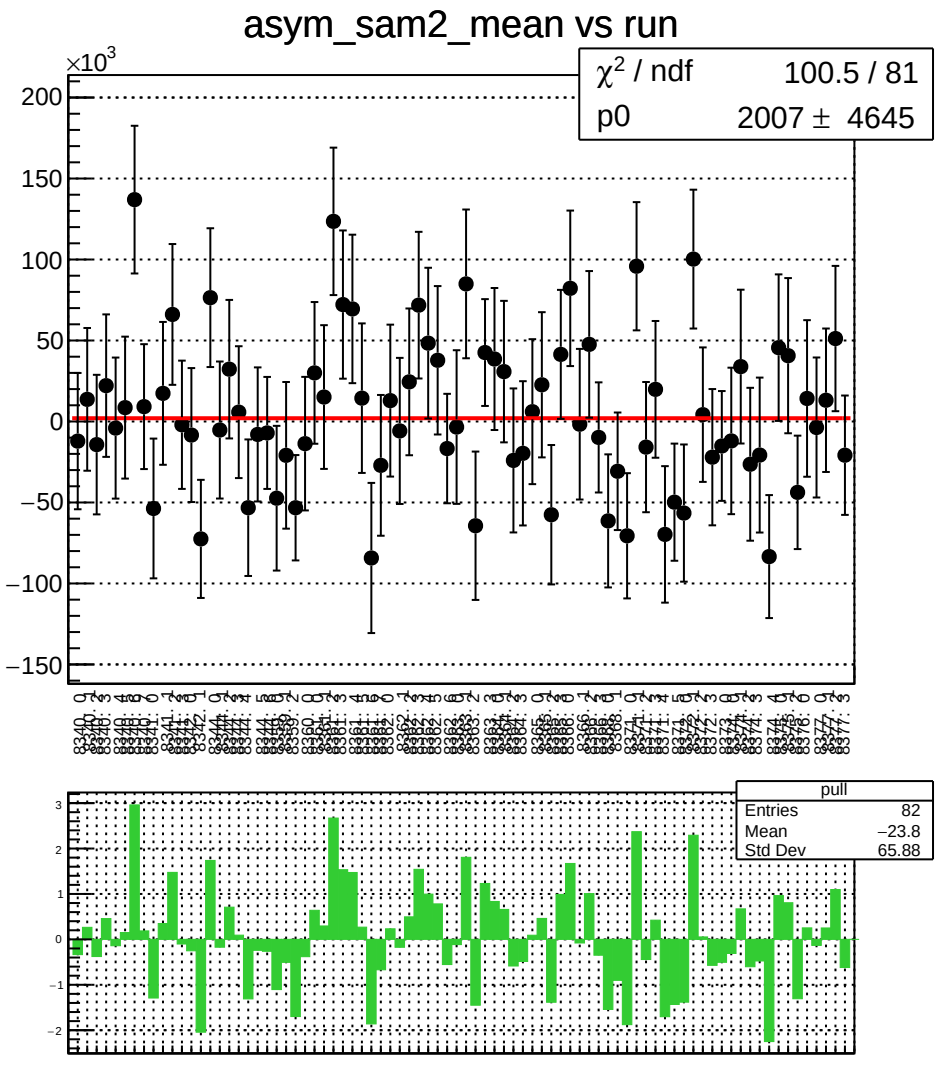

pull1D
Entries 82
Mean 0.009756
Std Dev 1.244

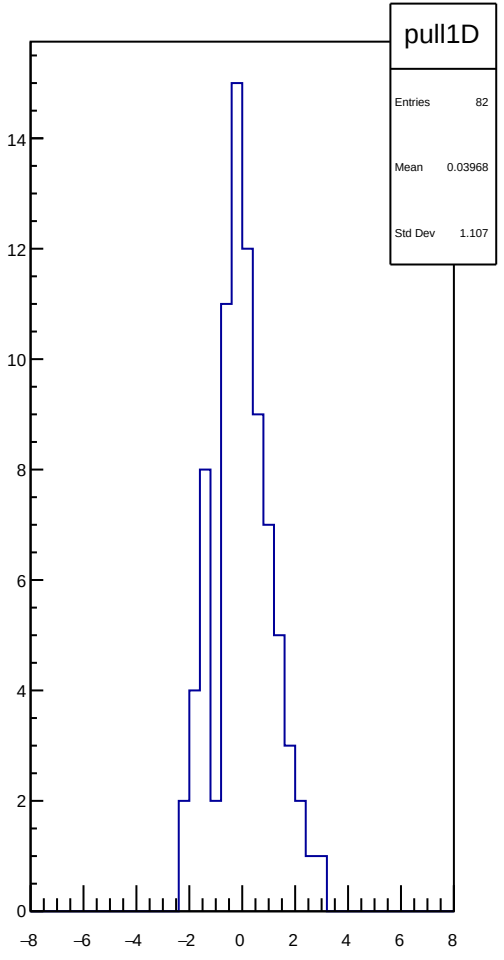

diff_bpm0l01Y_rms vs run
χ² / ndf 5310 / 81
p0 2034 ± 1.594
2800
2600
2400
2200
2000
1800

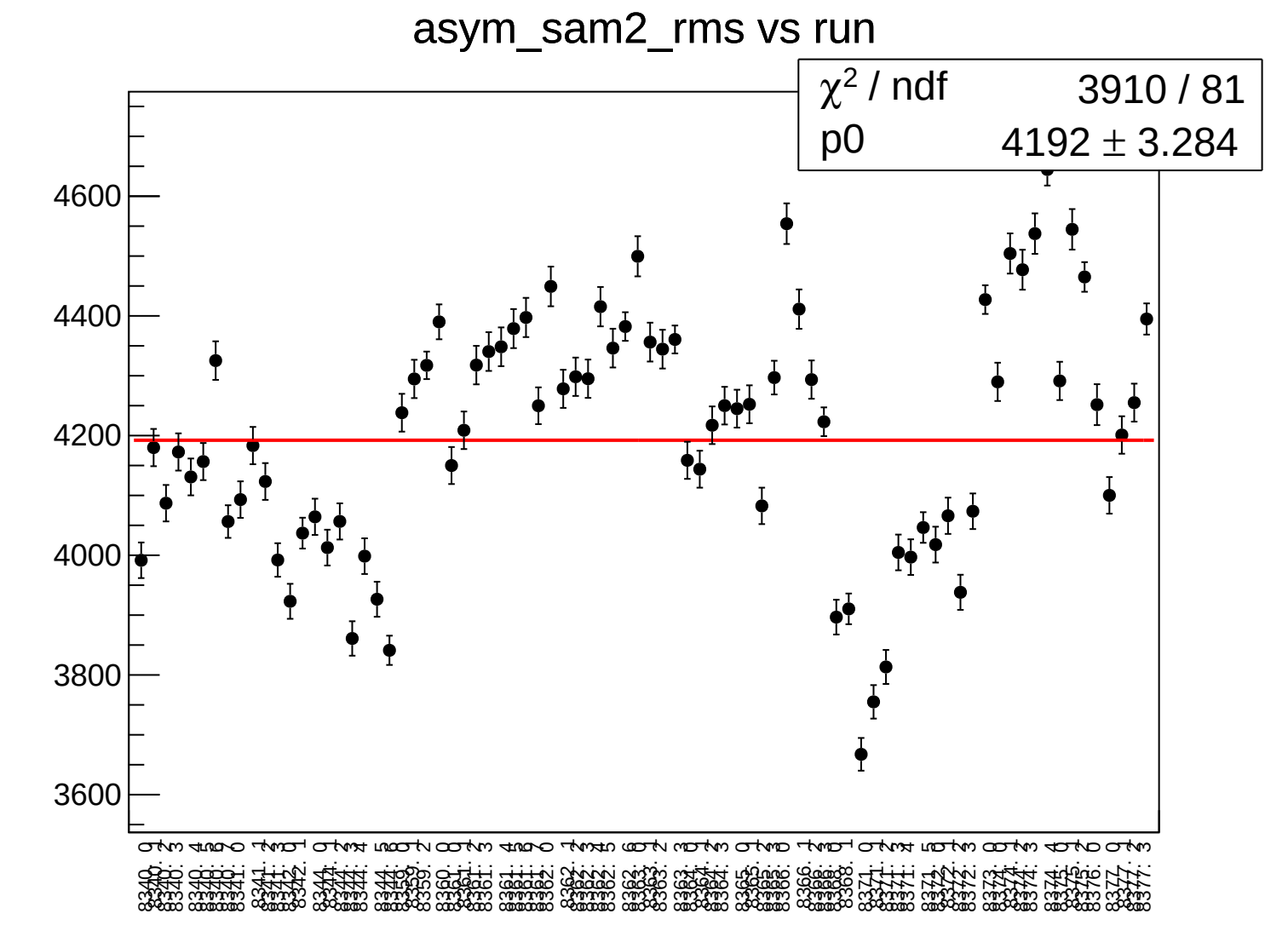

asym_sam1_mean vs run
χ² / ndf 81.98 / 81
p0 −523.9 ± 354.6
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 6.514
Std Dev 60.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

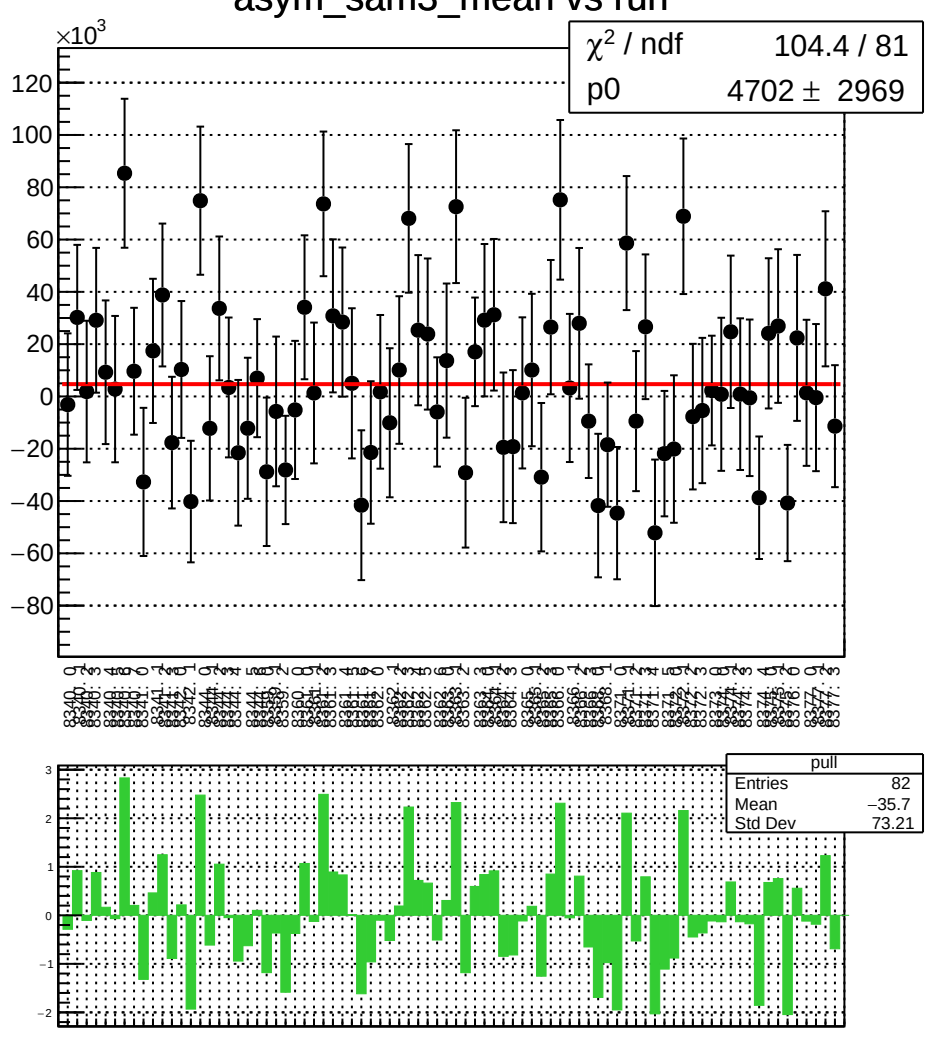

pull1D
Entries 82
Mean 0.02618
Std Dev 0.9995
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

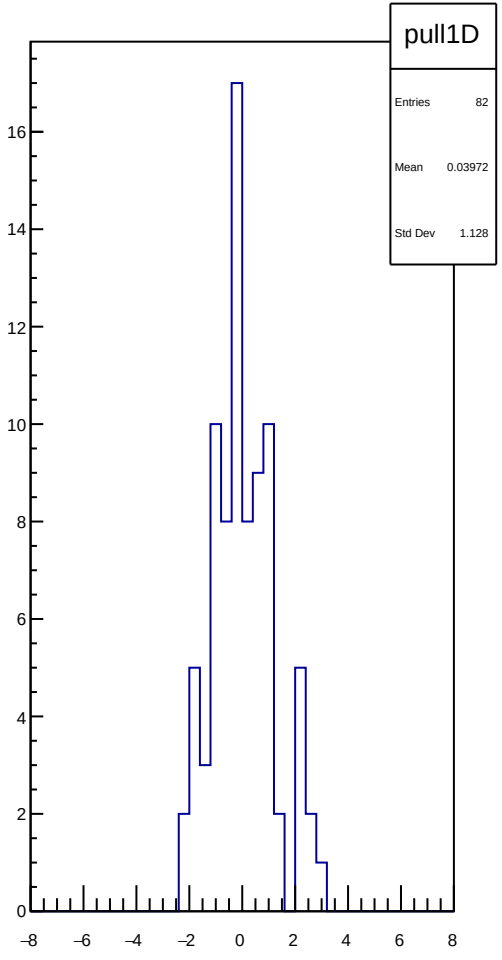

asym_sam1_rms vs run
χ² / ndf 6989 / 81
p0 319.8 ± 0.2507
360
340
320
300
280

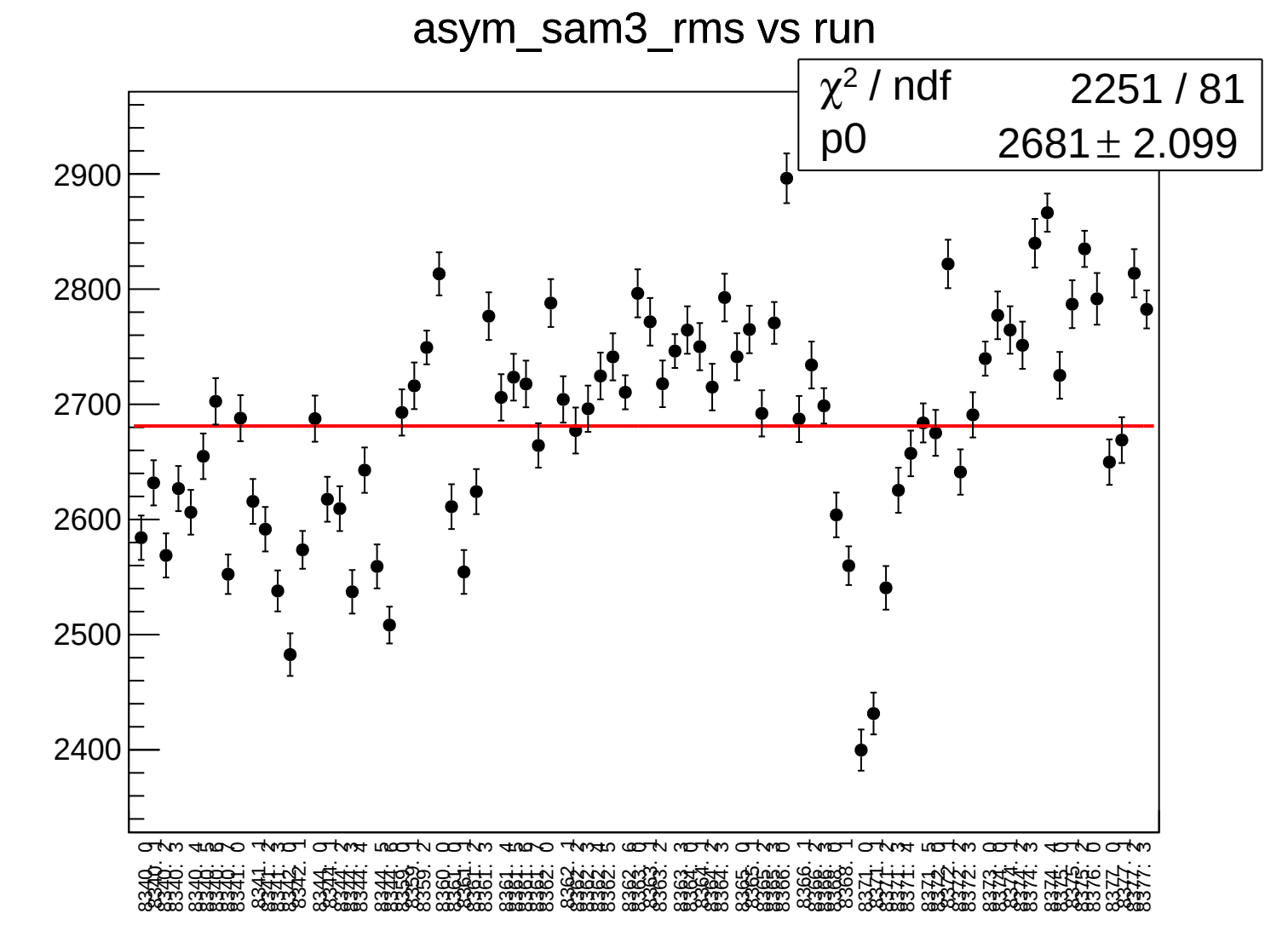

asym_sam2_mean vs run
×10^3
χ^2 / ndf 100.5 / 81
p0 2007 ± 4645
pull
Entries 82
Mean −23.8
Std Dev 65.88

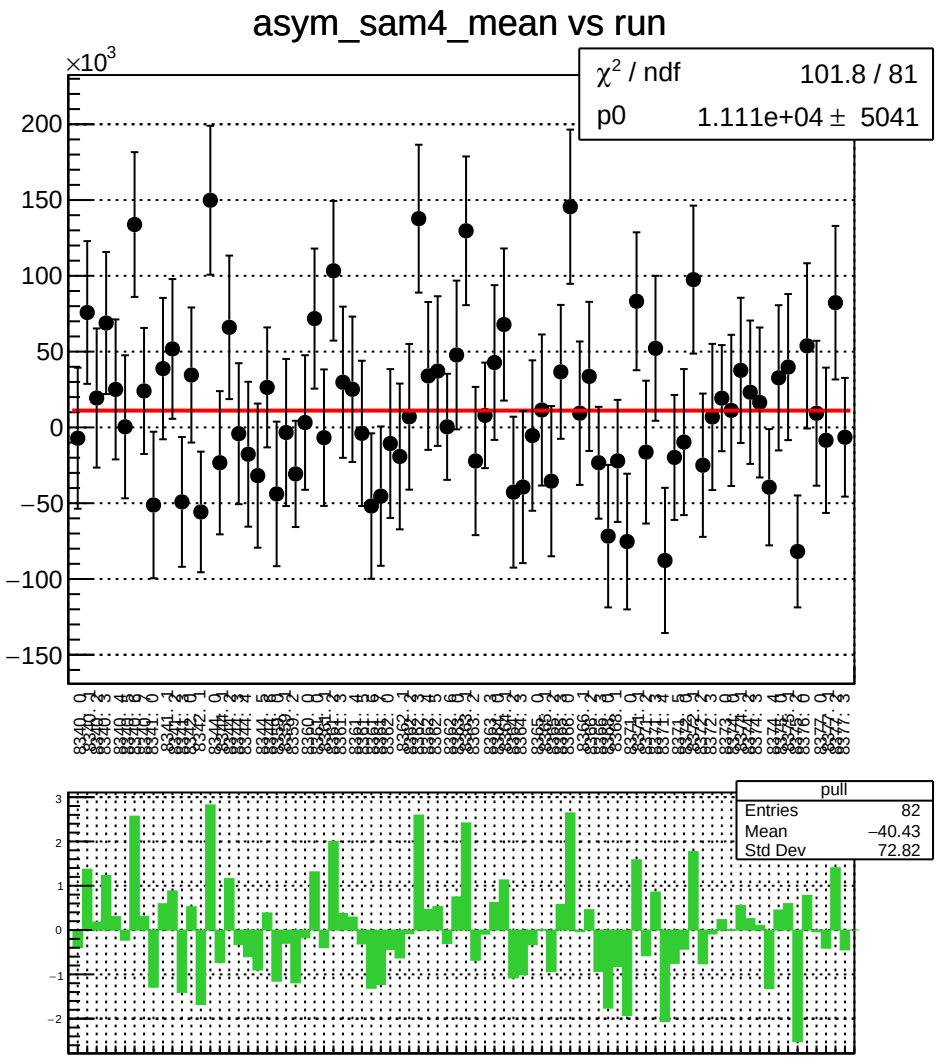

pull1D
Entries 82
Mean 0.03968
Std Dev 1.107

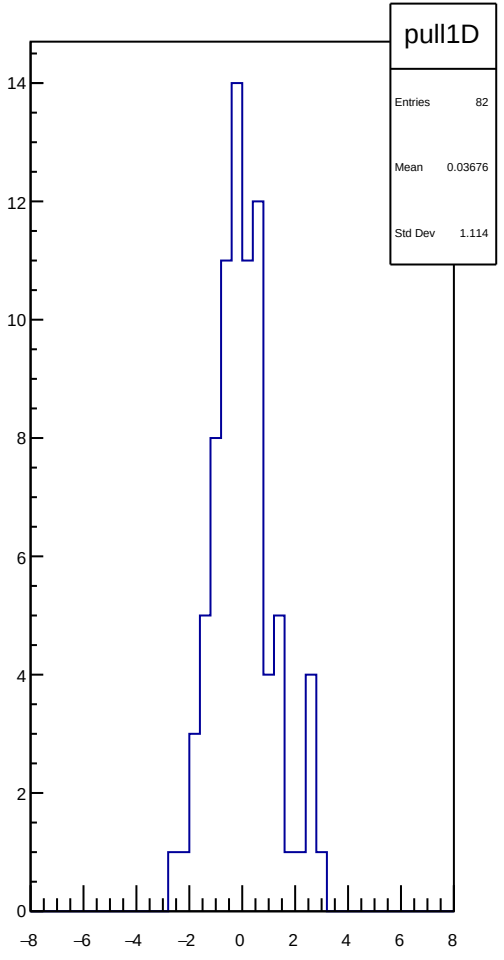

asym_sam2_rms vs run
χ² / ndf 3910 / 81
p0 4192 ± 3.284
4600
4400
4200
4000
3800
3600

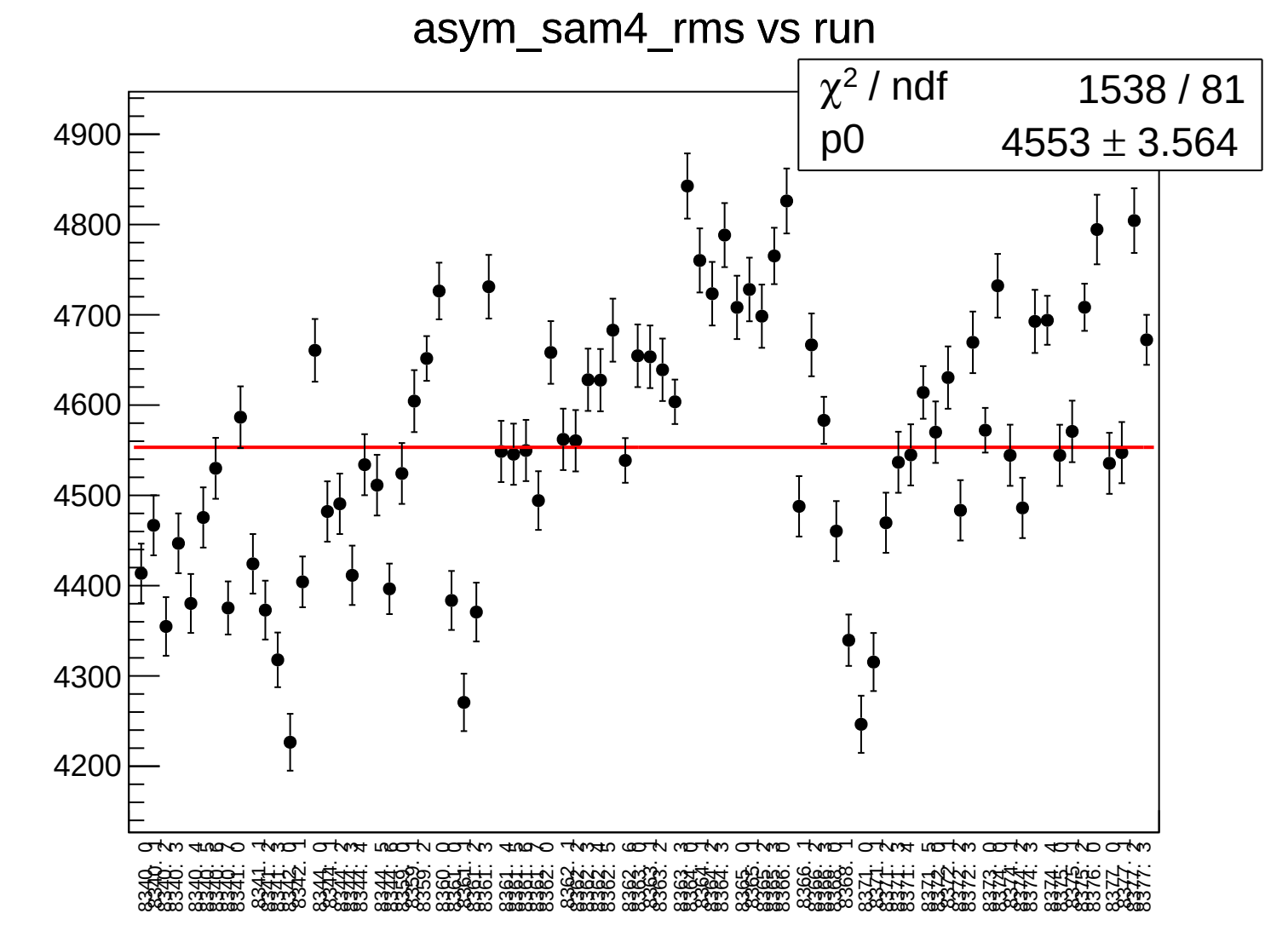

asym_sam3_mean vs run
χ^2 / ndf 104.4 / 81
p0 4702 ± 2969
pull
Entries 82
Mean −35.7
Std Dev 73.21

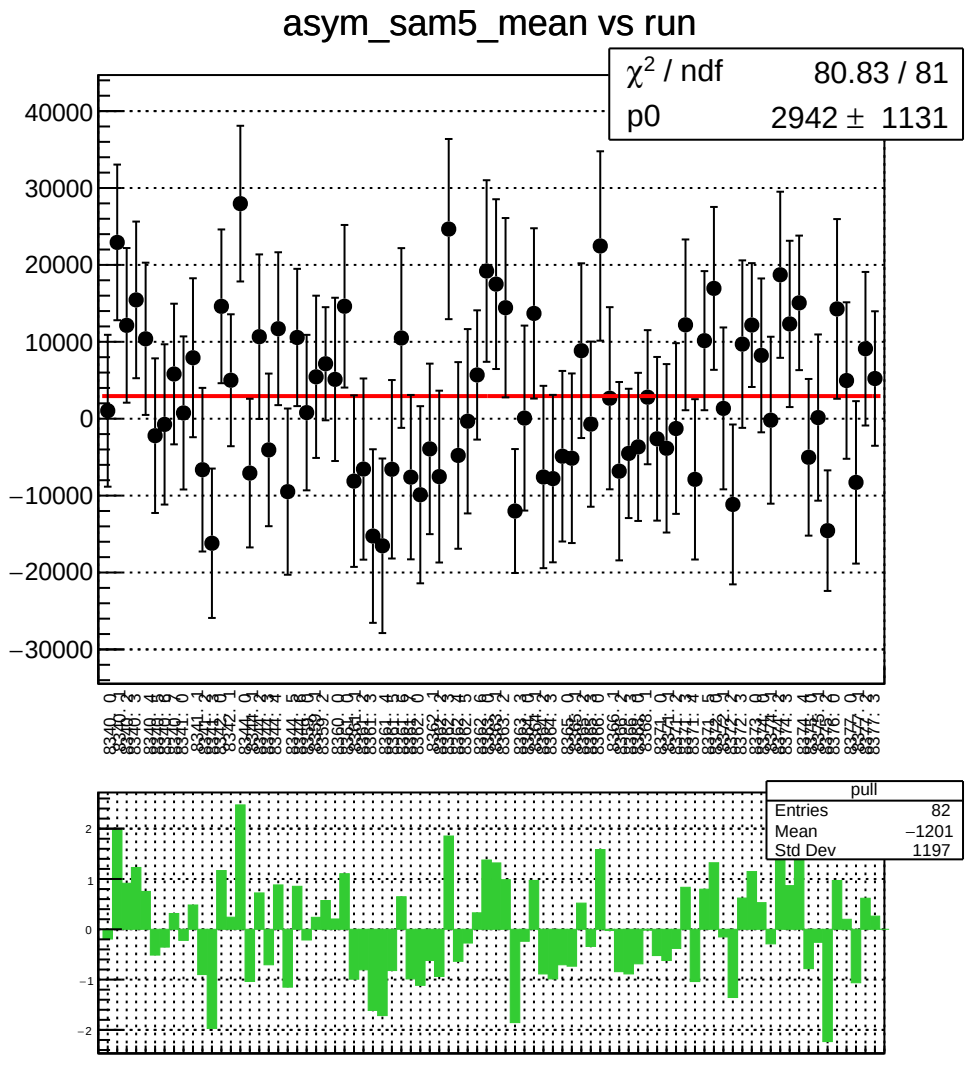

pull1D
Entries 82
Mean 0.03972
Std Dev 1.128

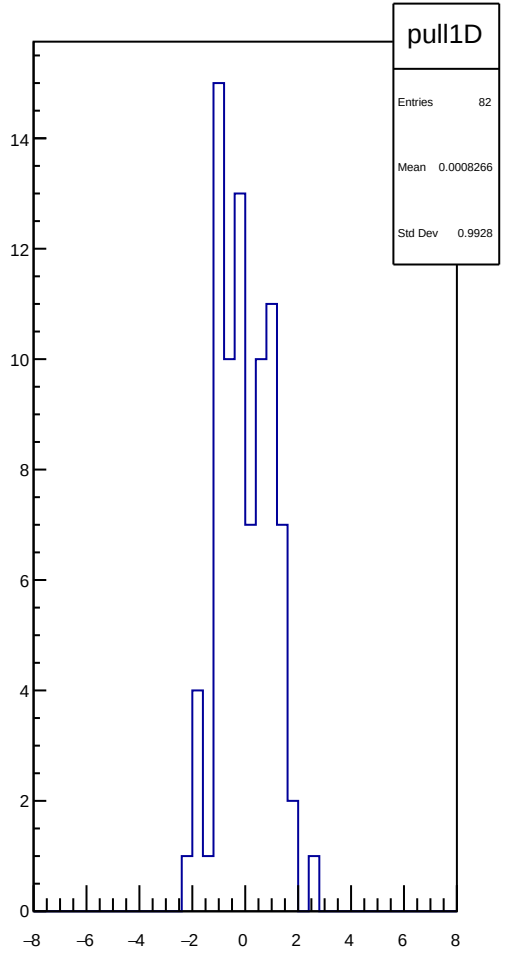

asym_sam3_rms vs run
χ² / ndf 2251 / 81
p0 2681 ± 2.099
2900
2800
2700
2600
2500
2400

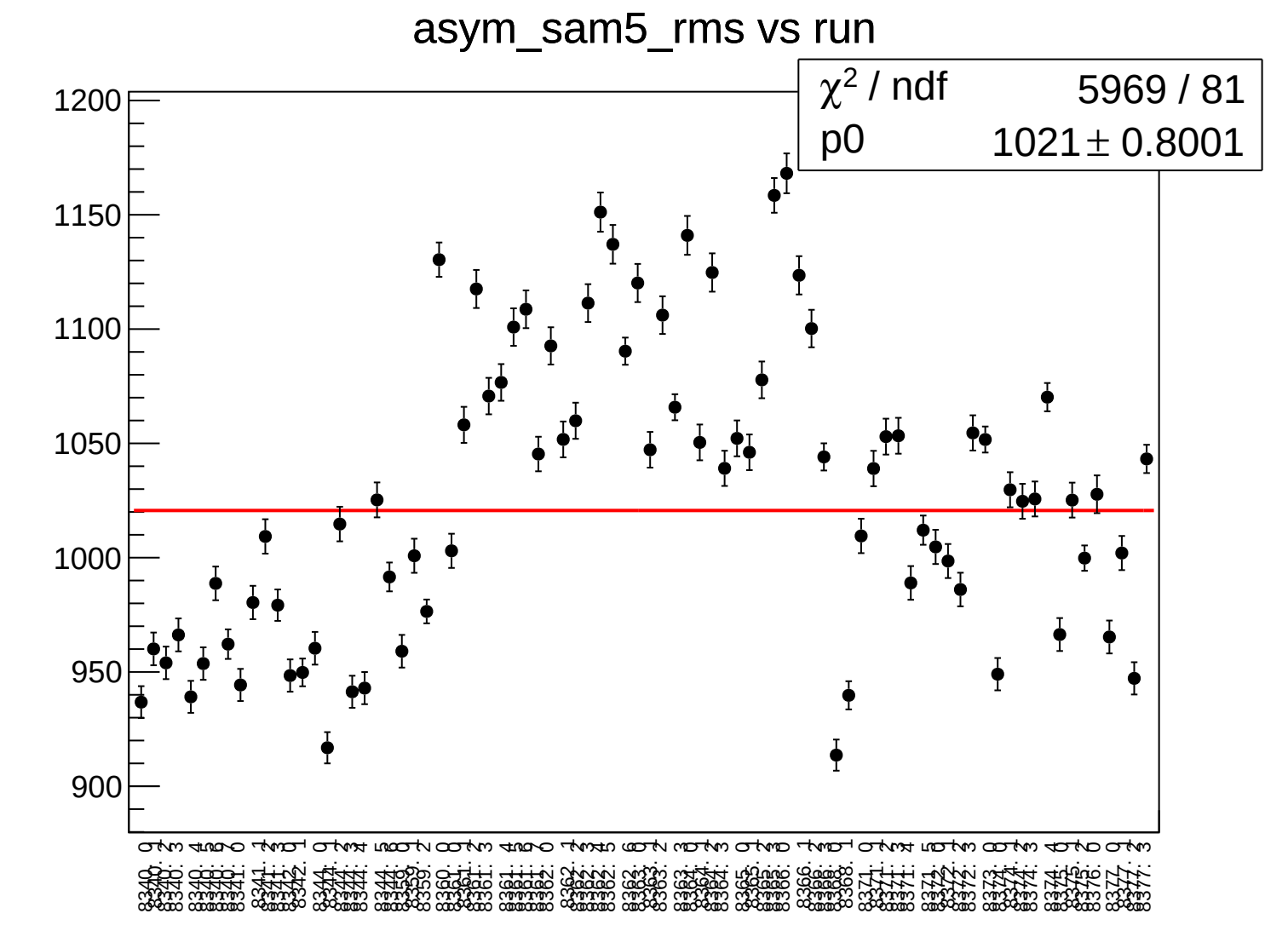

asym_sam4_mean vs run
×10^3
χ² / ndf 101.8 / 81
p0 1.111e+04 ± 5041
pull
Entries 82
Mean −40.43
Std Dev 72.82

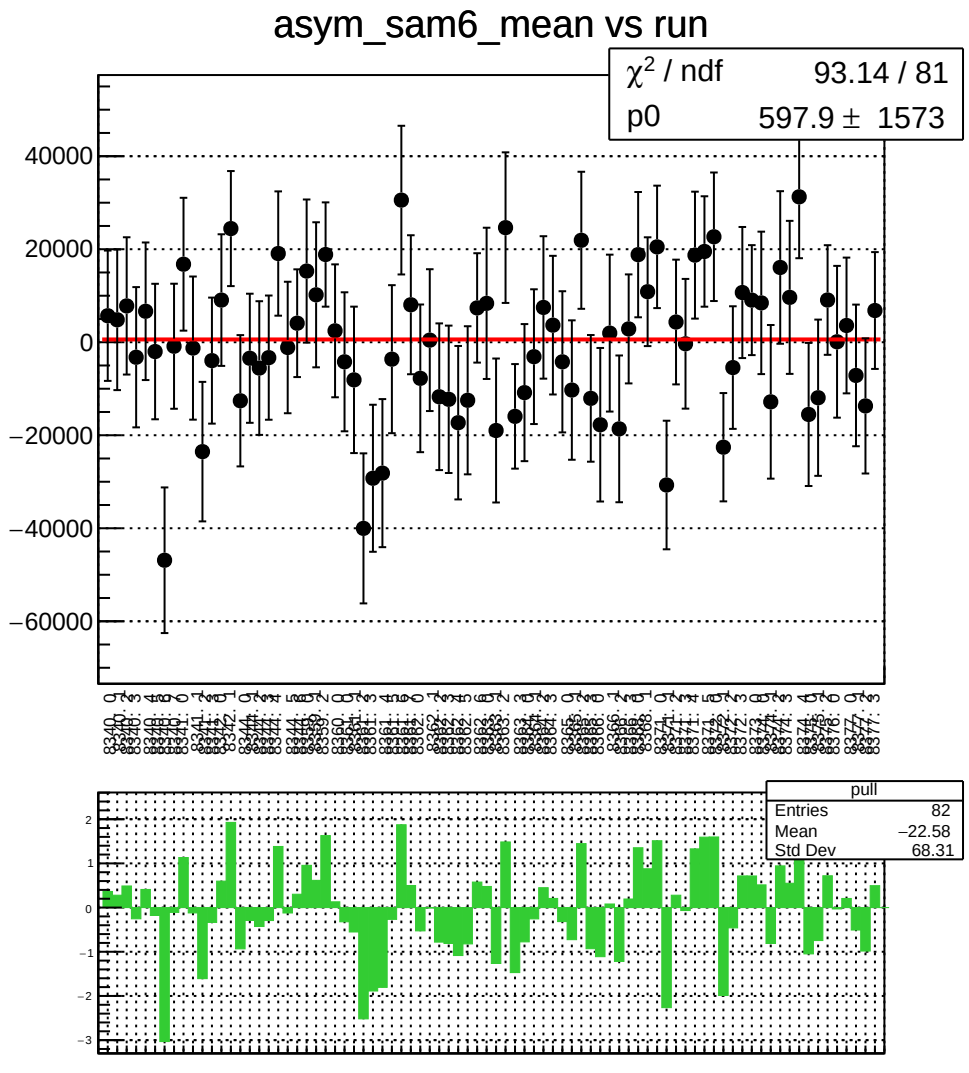

pull1D
Entries 82
Mean 0.03676
Std Dev 1.114

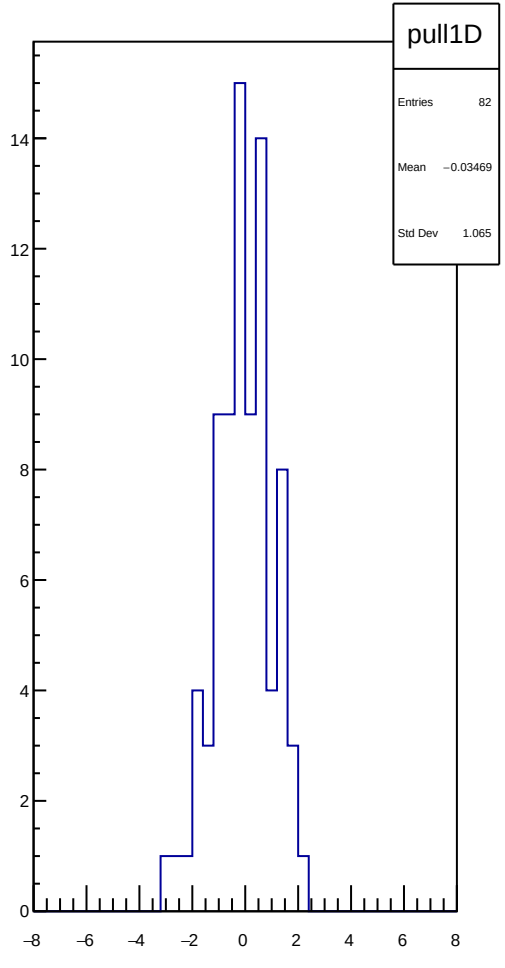

asym_sam4_rms vs run
χ² / ndf 1538 / 81
p0 4553 ± 3.564
4900
4800
4700
4600
4500
4400
4300
4200

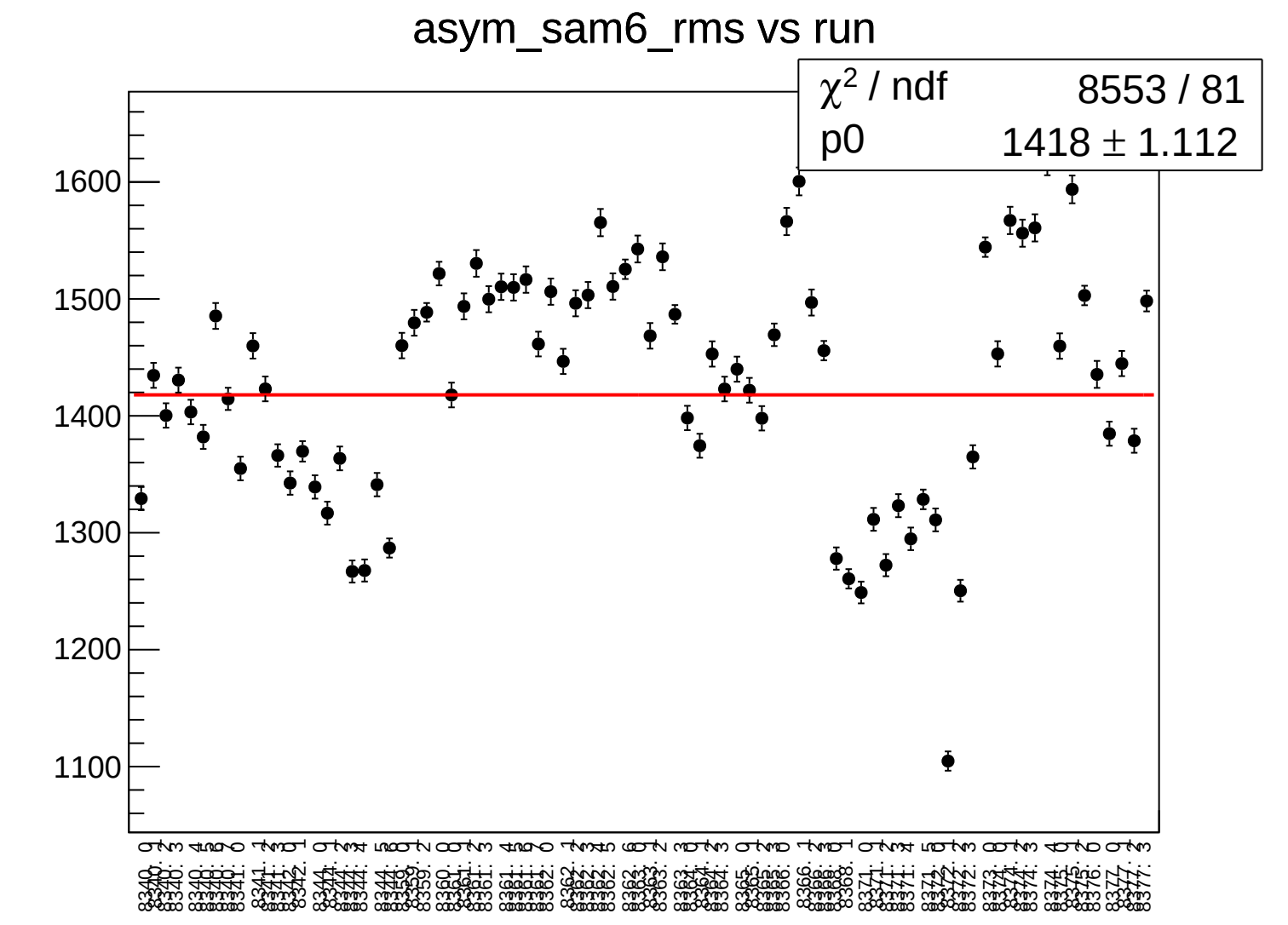

asym_sam5_mean vs run
χ² / ndf 80.83 / 81
p0 2942 ± 1131
pull
Entries 82
Mean −1201
Std Dev 1197

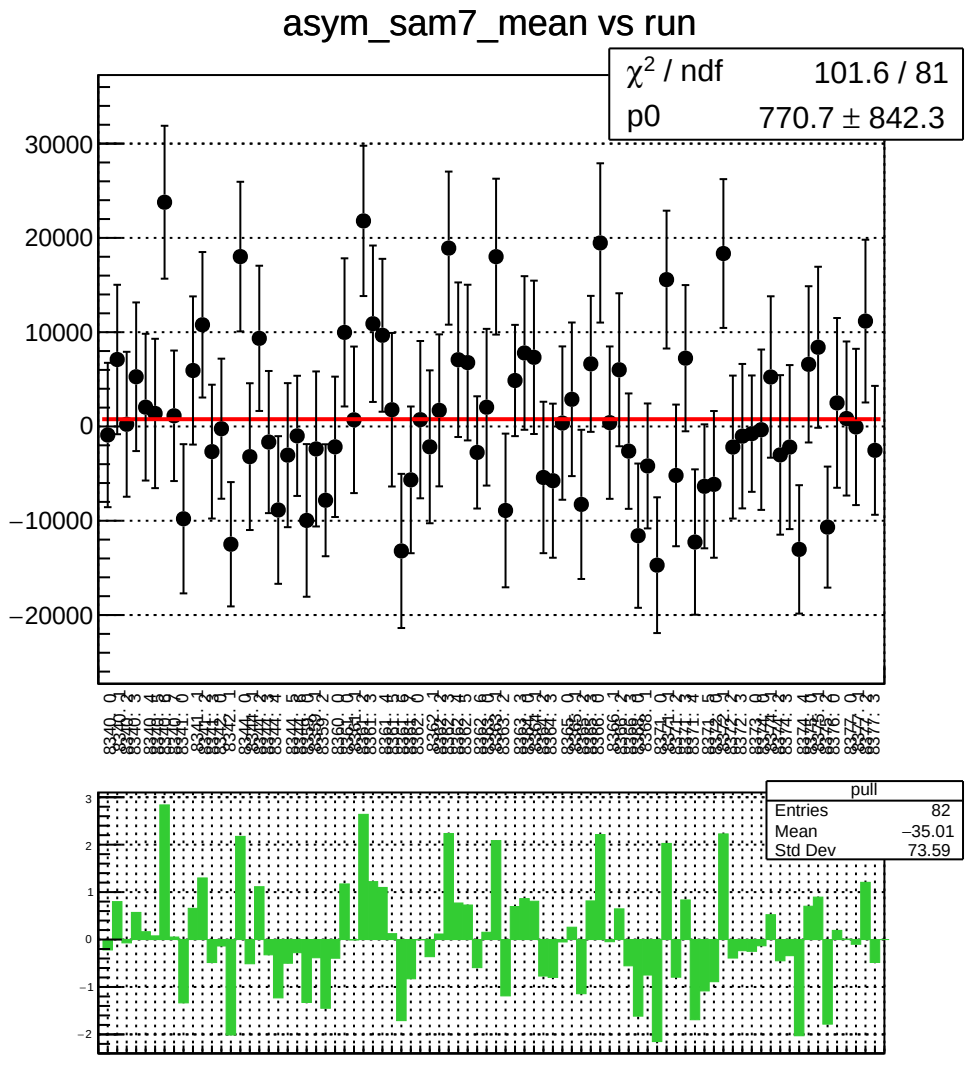

pull1D
Entries 82
Mean 0.0008266
Std Dev 0.9928

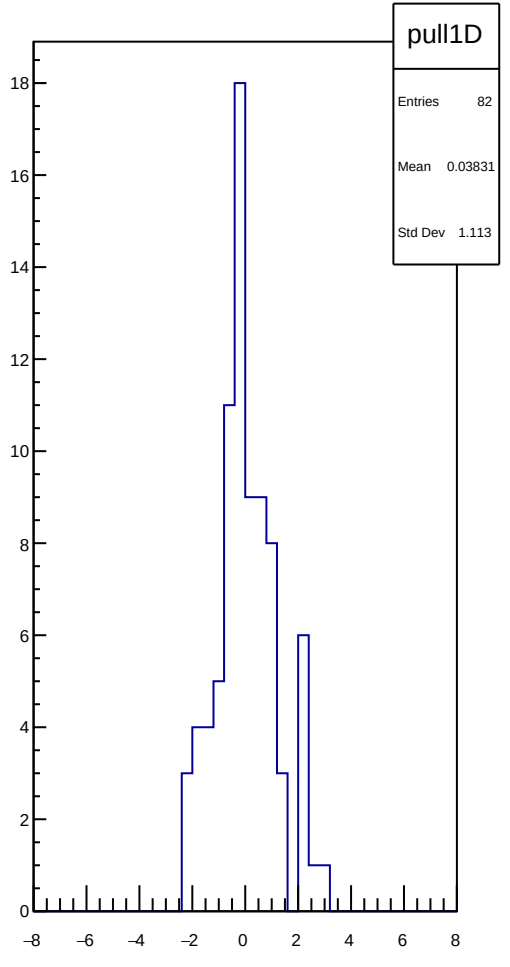

asym_sam5_rms vs run
χ² / ndf 5969 / 81
p0 1021 ± 0.8001
1200
1150
1100
1050
1000
950
900

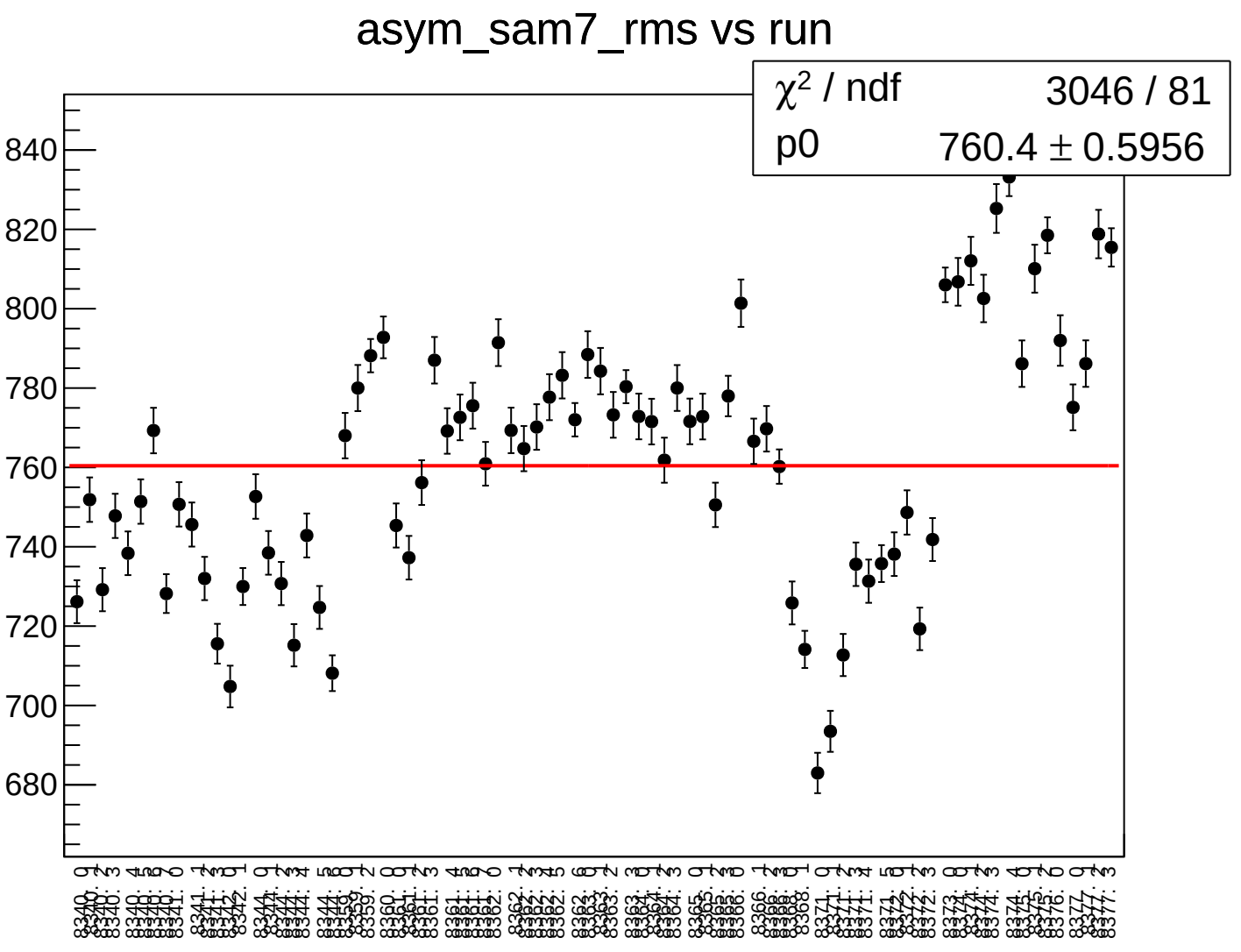

asym_sam6_mean vs run
χ² / ndf 93.14 / 81
p0 597.9 ± 1573
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −22.58
Std Dev 68.31
2
1
0
−1
−2
−3

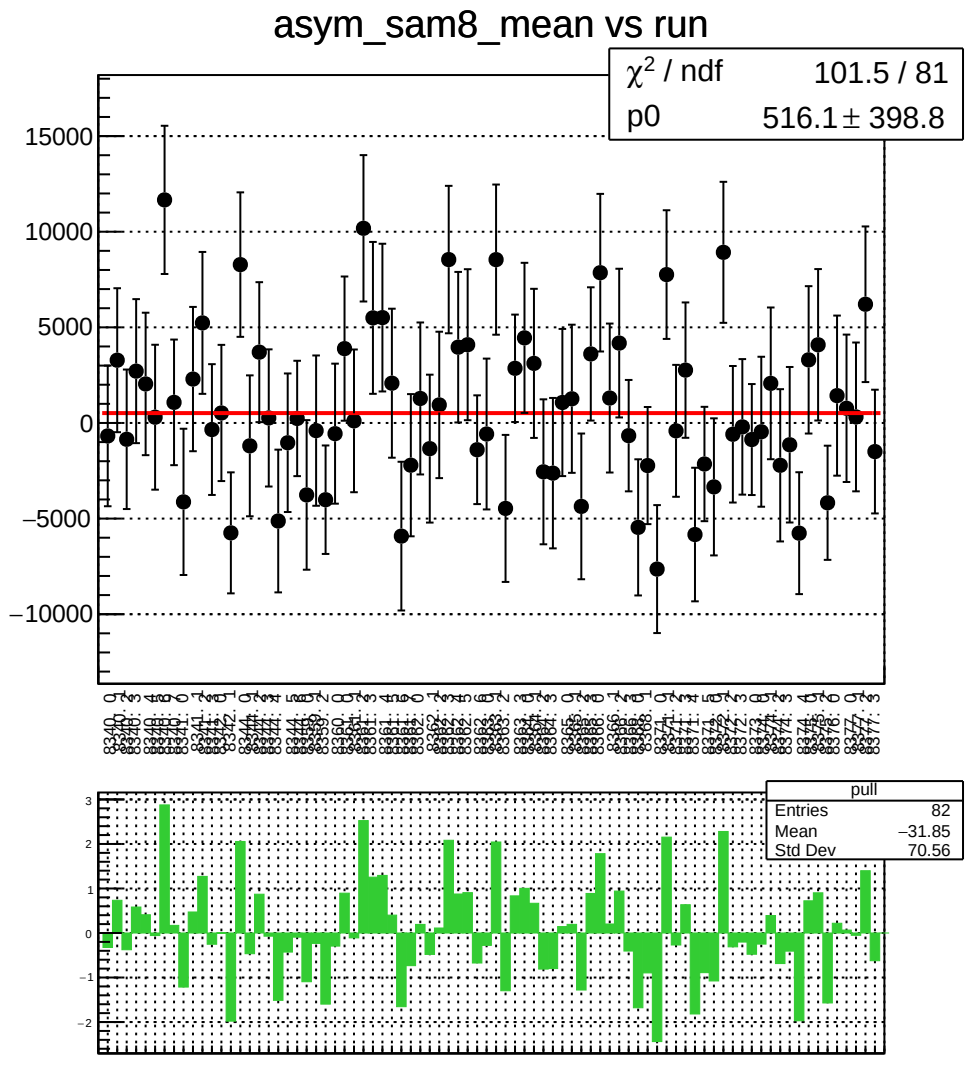

pull1D
Entries 82
Mean −0.03469
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

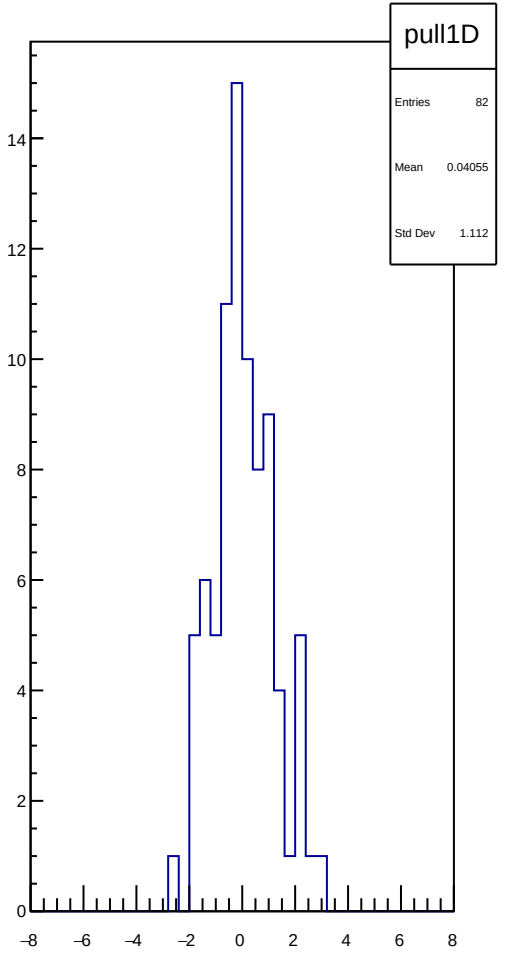

asym_sam6_rms vs run
χ² / ndf 8553 / 81
p0 1418 ± 1.112
1600
1500
1400
1300
1200
1100

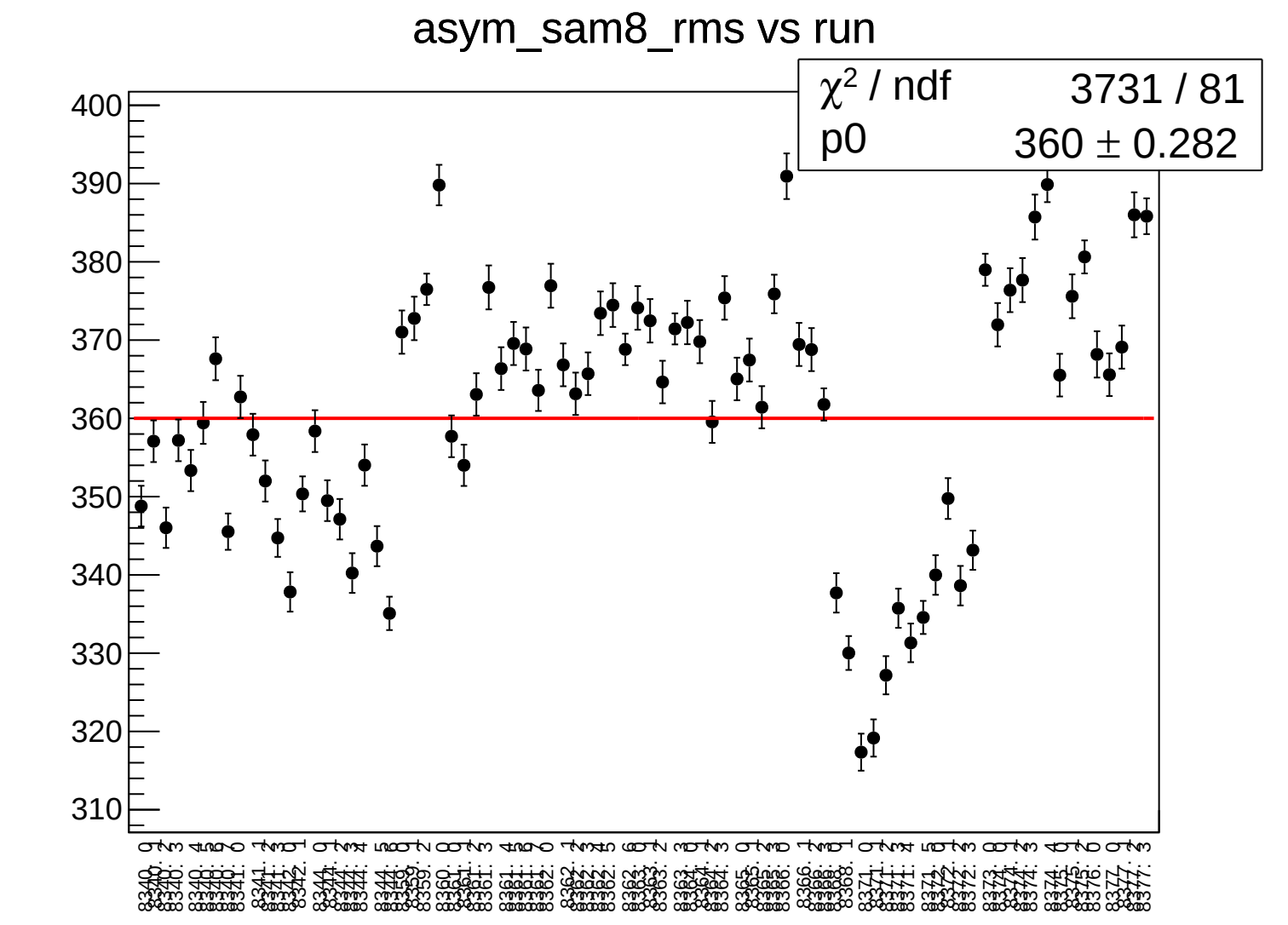

asym_sam7_mean vs run
χ² / ndf 101.6 / 81
p0 770.7 ± 842.3
30000
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −35.01
Std Dev 73.59
3
2
1
0
−1
−2

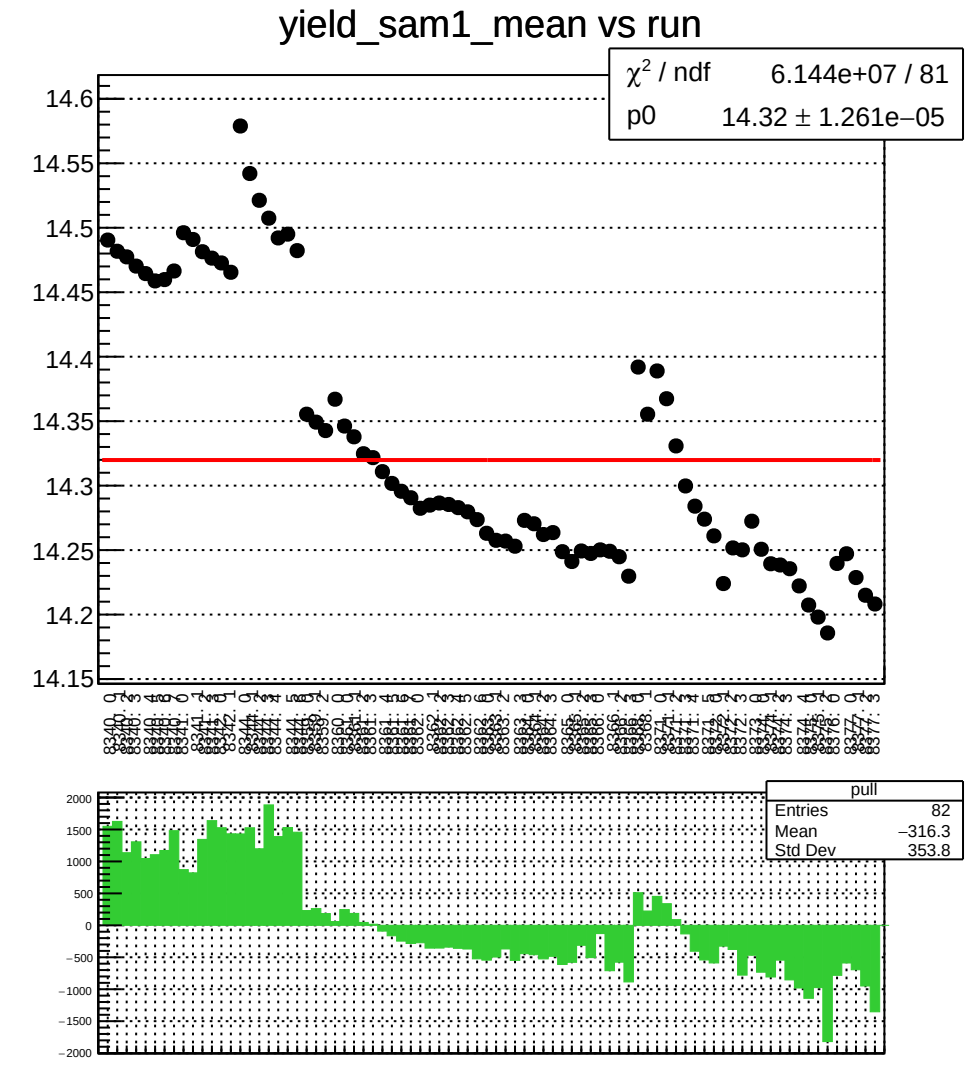

pull1D
Entries 82
Mean 0.03831
Std Dev 1.113
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

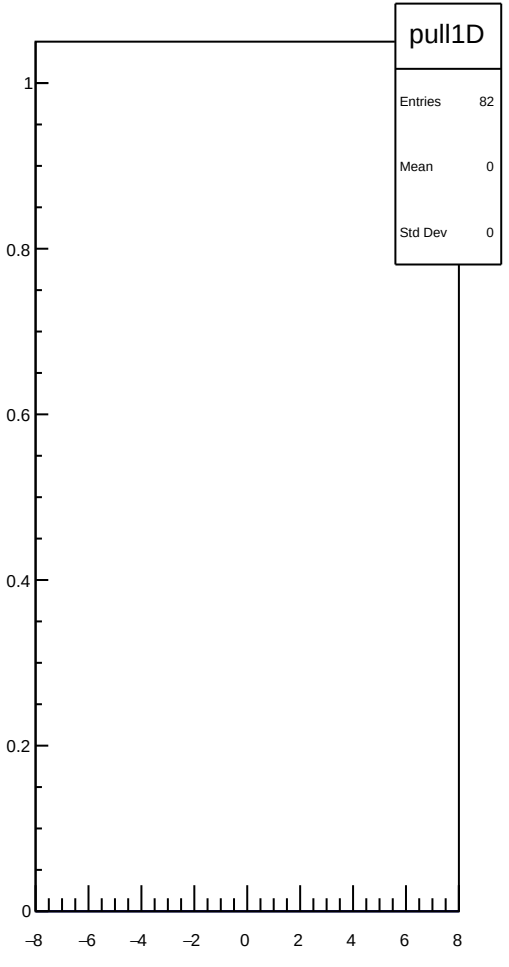

asym_sam7_rms vs run
χ² / ndf 3046 / 81
p0 760.4 ± 0.5956
840
820
800
780
760
740
720
700
680

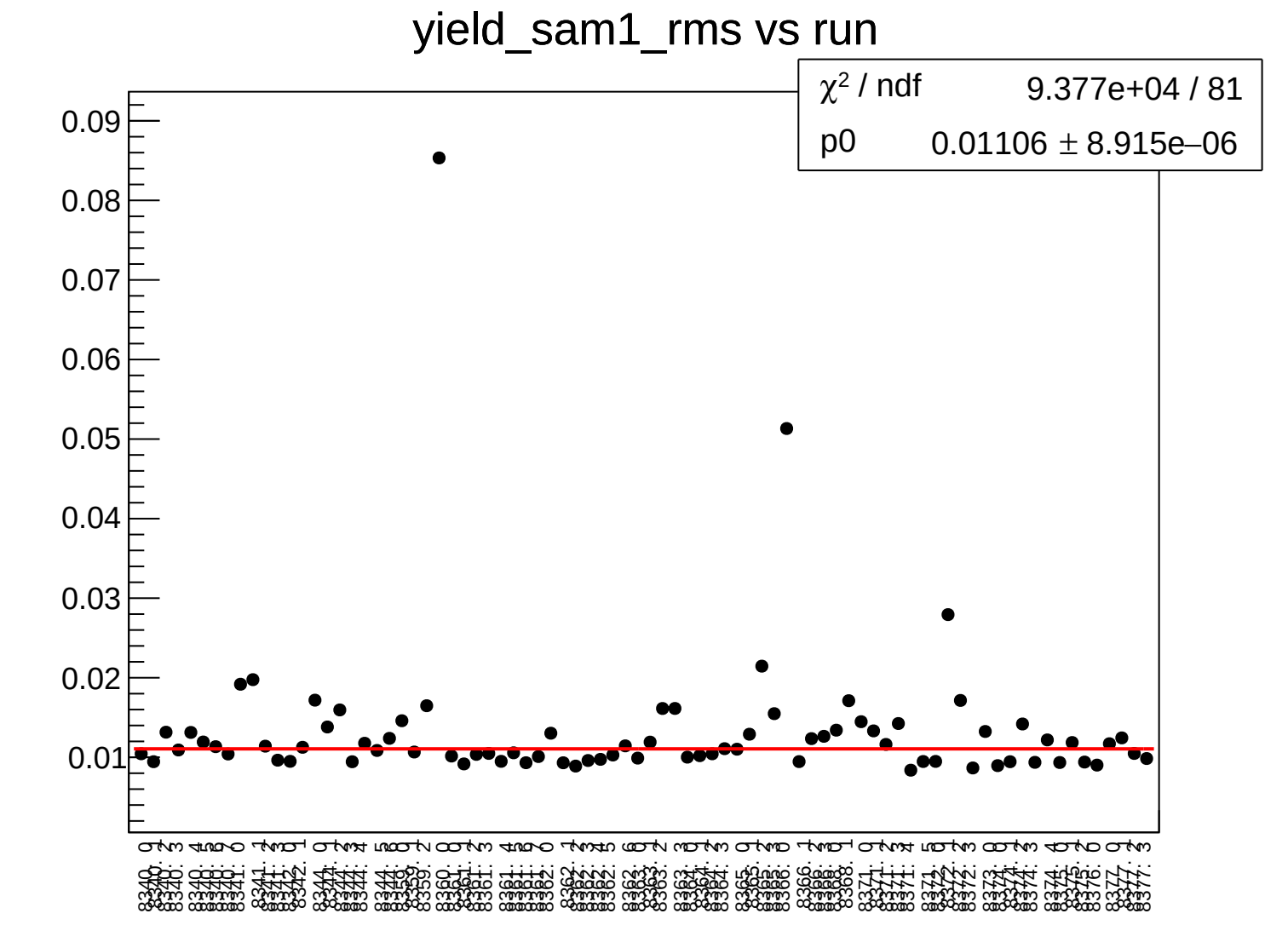

asym_sam8_mean vs run
χ² / ndf 101.5 / 81
p0 516.1 ± 398.8
15000
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −31.85
Std Dev 70.56
3
2
1
0
−1
−2

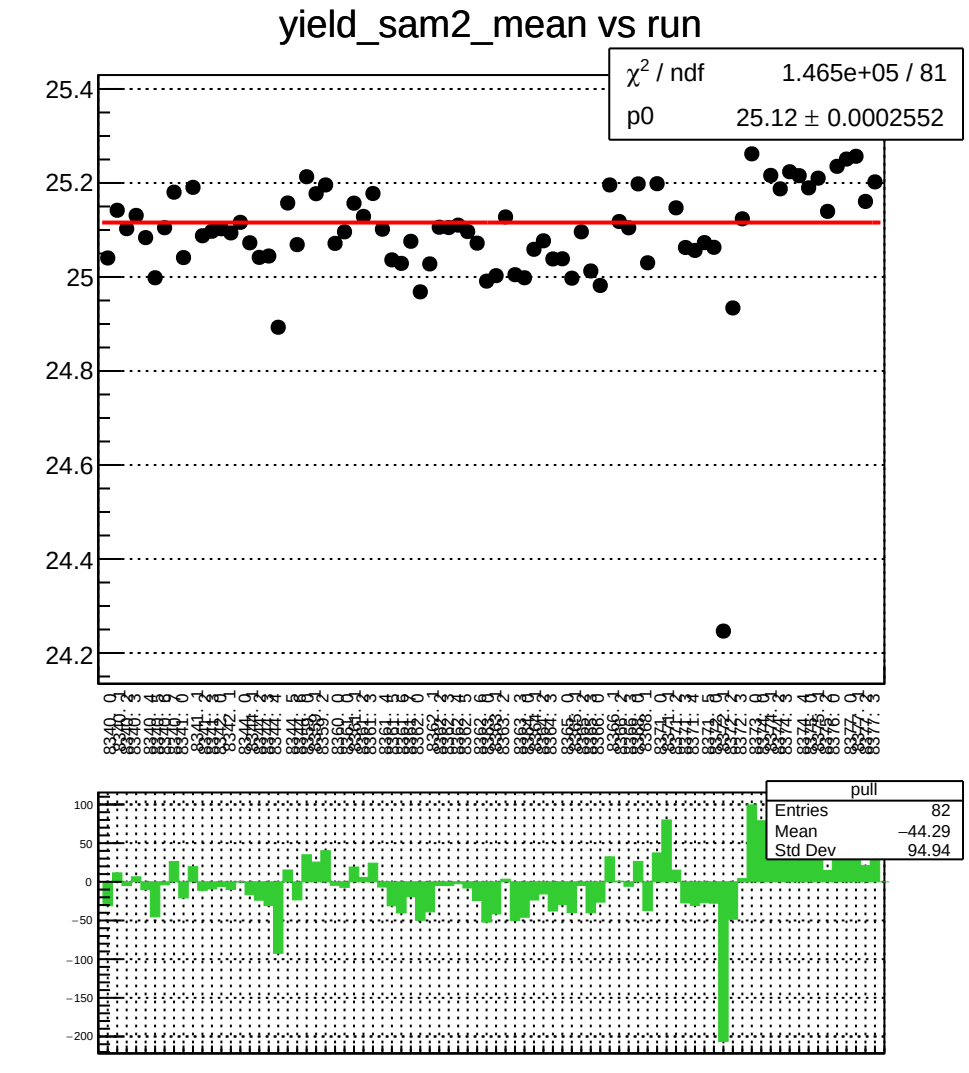

pull1D
Entries 82
Mean 0.04055
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

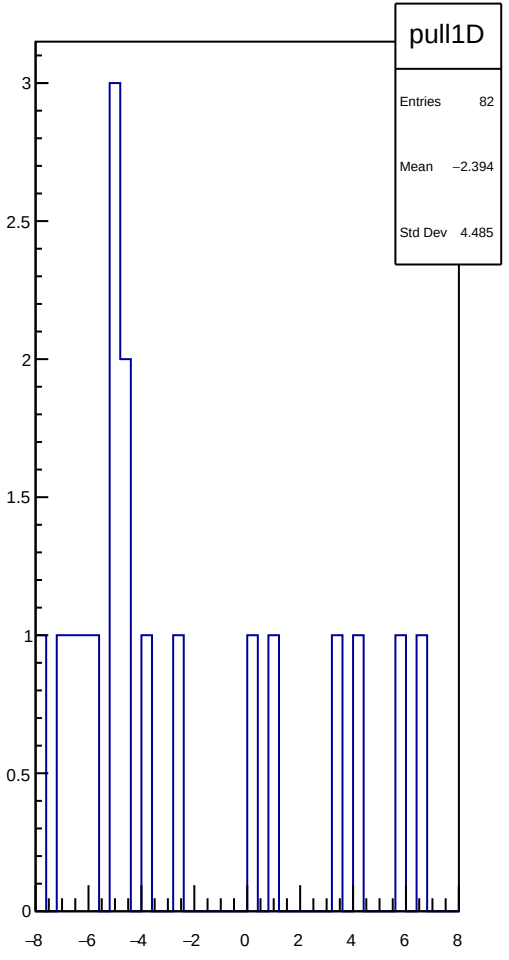

asym_sam8_rms vs run
χ² / ndf 3731 / 81
p0 360 ± 0.282
400
390
380
370
360
350
340
330
320
310

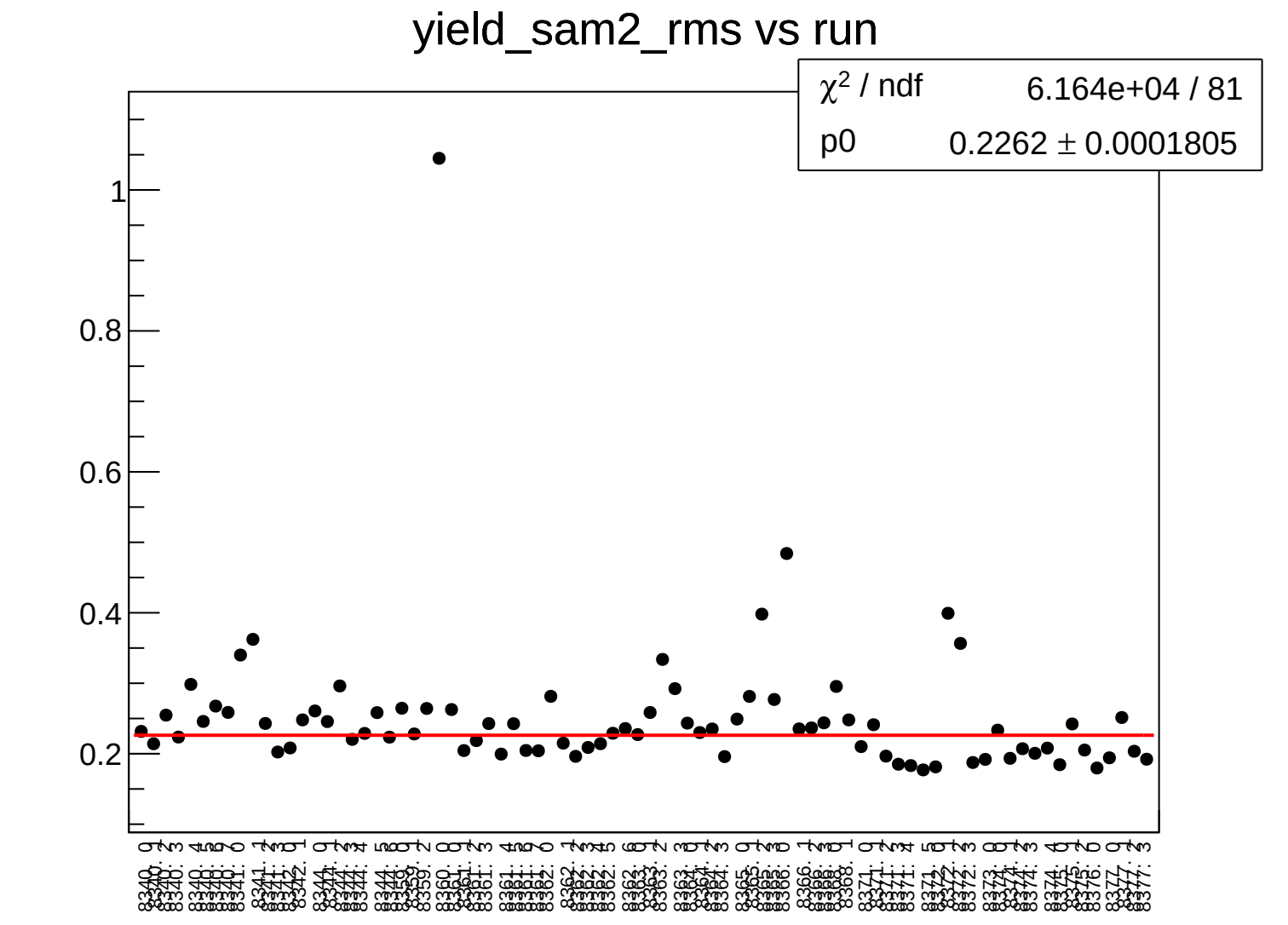

yield_sam1_mean vs run
χ² / ndf 6.144e+07 / 81
p0 14.32 ± 1.261e−05
14.6
14.55
14.5
14.45
14.4
14.35
14.3
14.25
14.2
14.15
pull
Entries 82
Mean −316.3
Std Dev 353.8
2000
1500
1000
500
0
−500
−1000
−1500
−2000

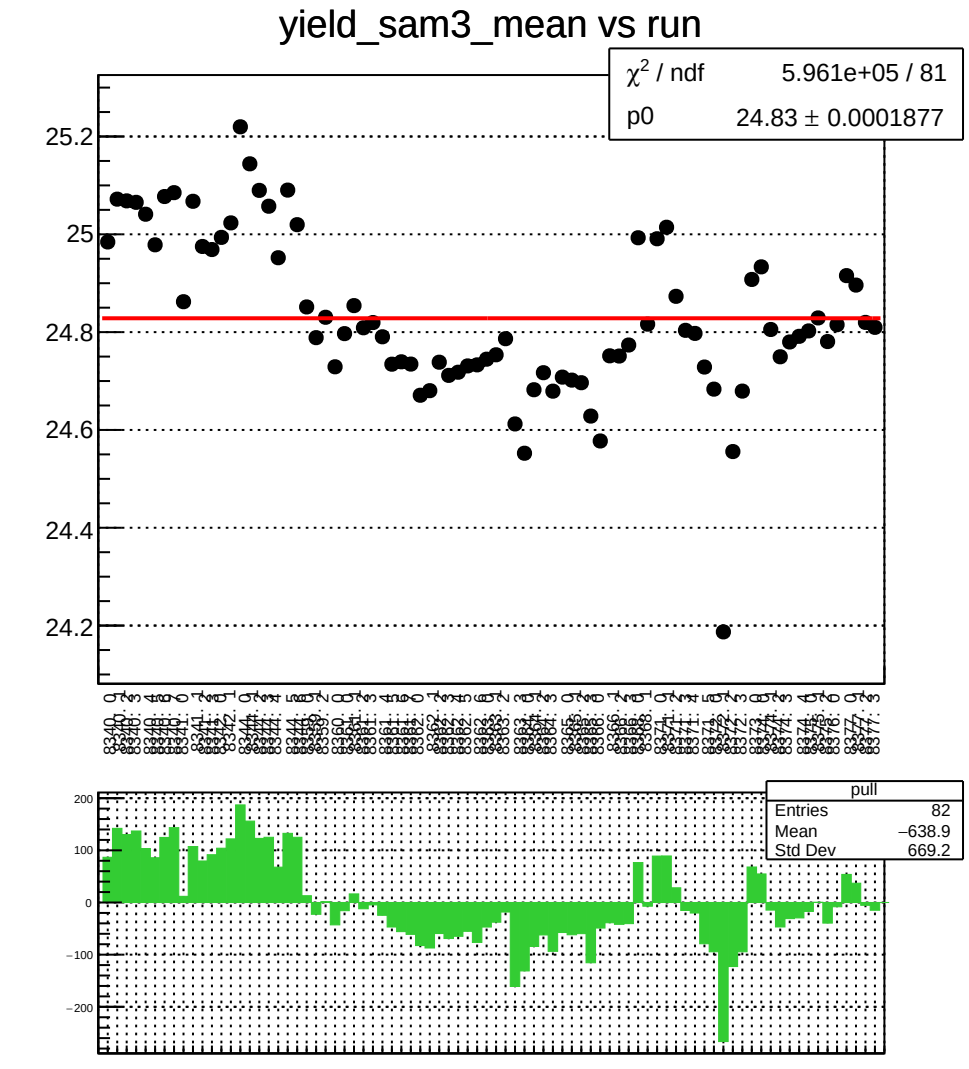

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

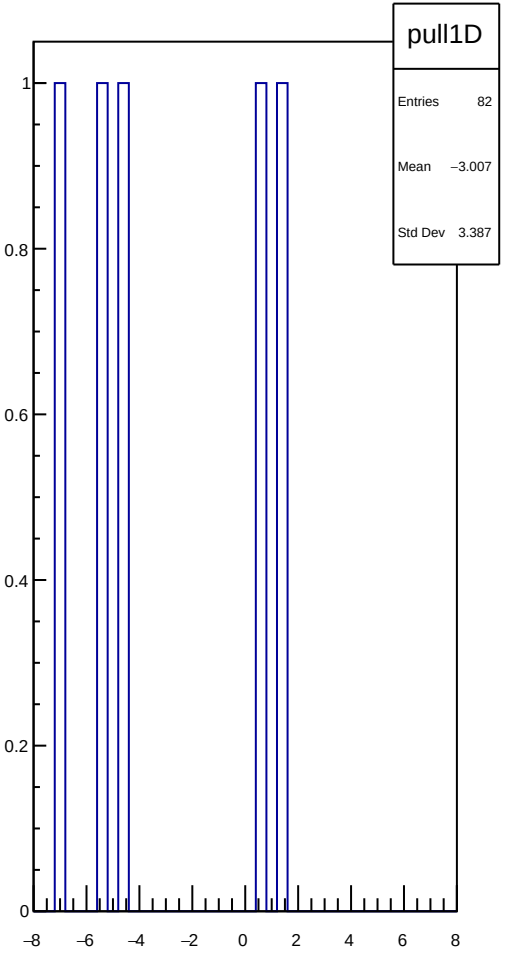

yield_sam1_rms vs run
χ² / ndf 9.377e+04 / 81
p0 0.01106 ± 8.915e–06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

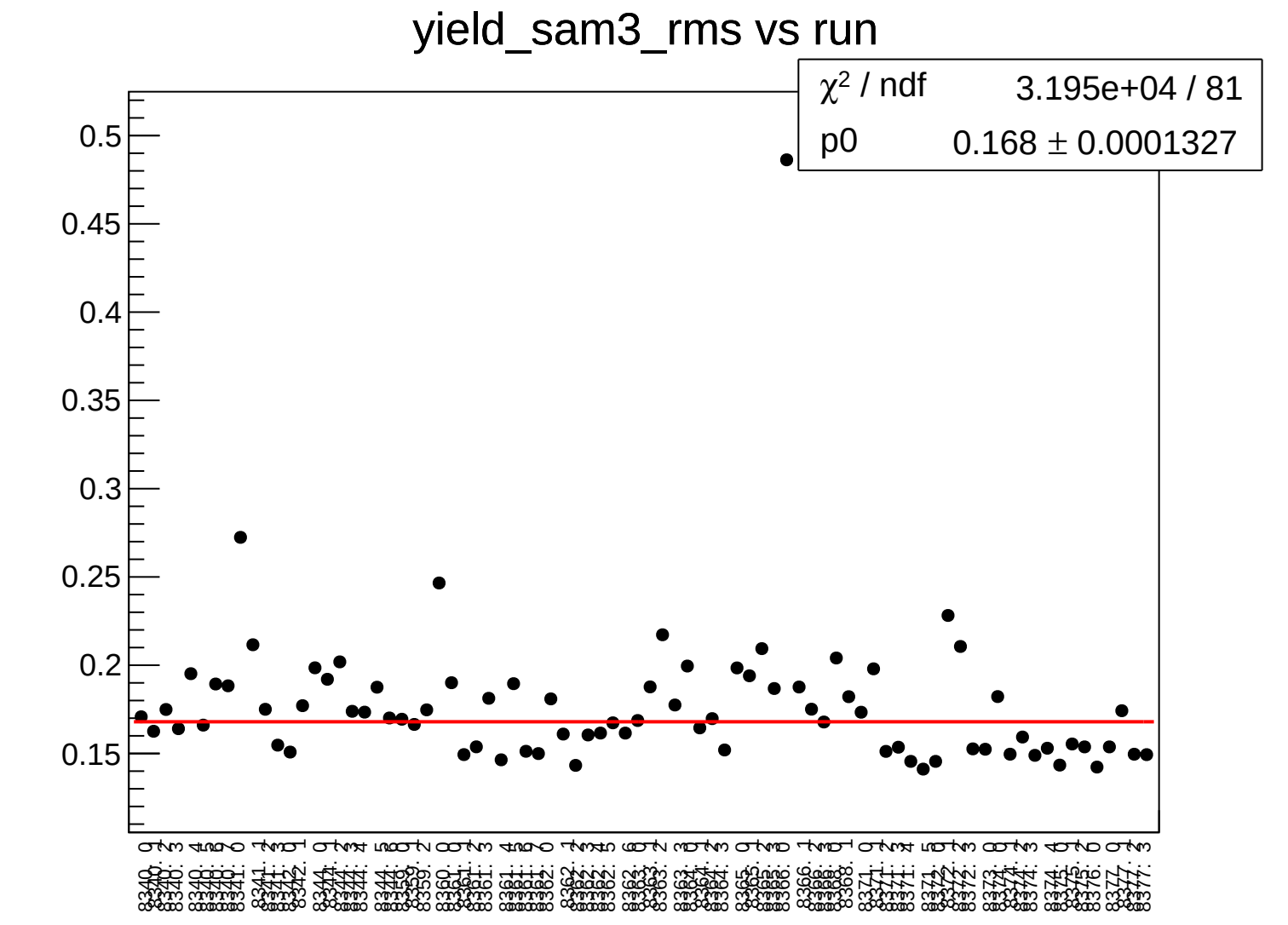

yield_sam2_mean vs run
χ² / ndf 1.465e+05 / 81
p0 25.12 ± 0.0002552
25.4
25.2
25
24.8
24.6
24.4
24.2
pull
Entries 82
Mean −44.29
Std Dev 94.94
100
50
0
−50
−100
−150
−200

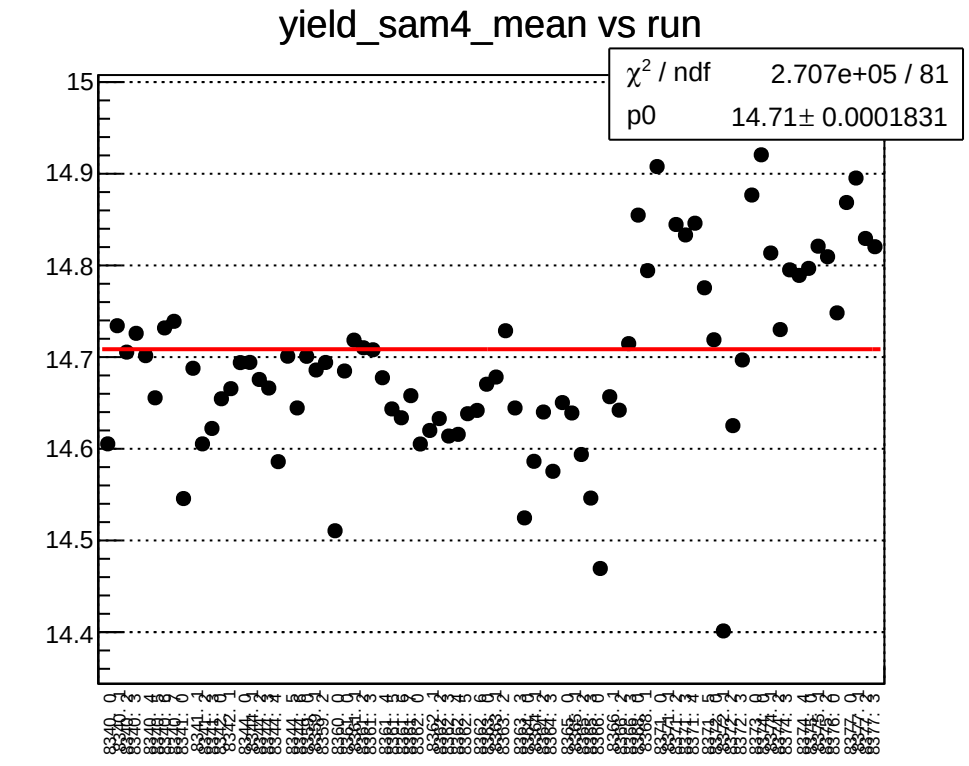

pull1D
Entries 82
Mean −2.394
Std Dev 4.485
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

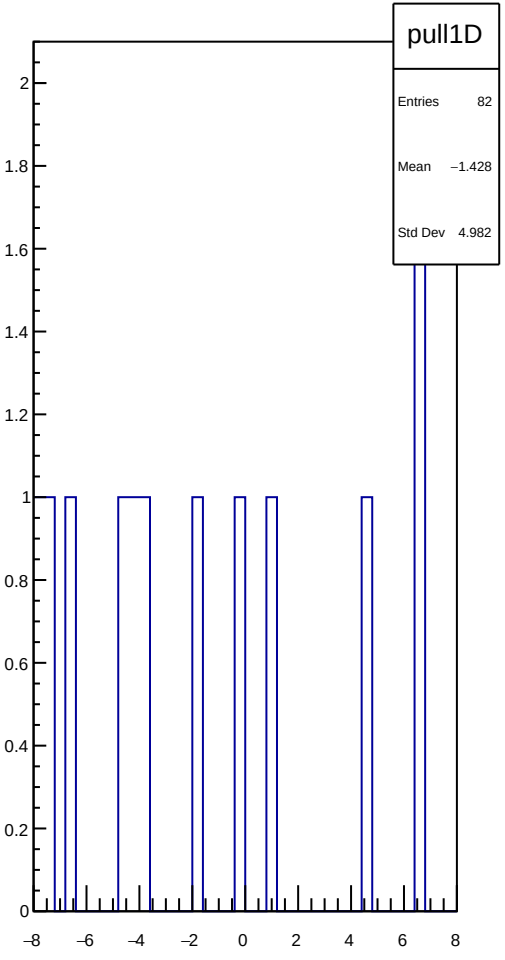

yield_sam2_rms vs run
χ² / ndf 6.164e+04 / 81
p0 0.2262 ± 0.0001805
1
0.8
0.6
0.4
0.2

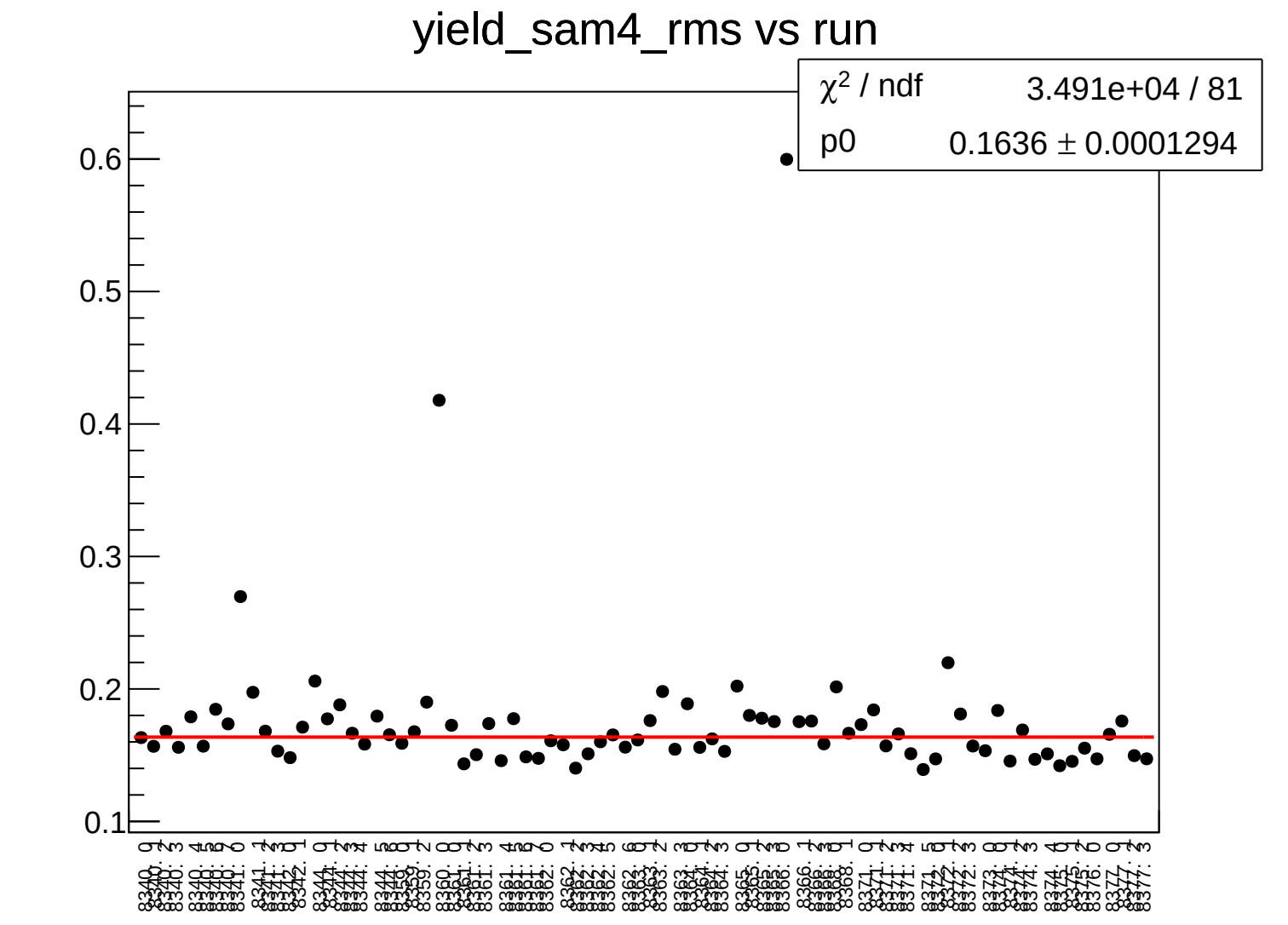

yield_sam3_mean vs run
χ² / ndf 5.961e+05 / 81
p0 24.83 ± 0.0001877
25.2
25
24.8
24.6
24.4
24.2
pull
Entries 82
Mean −638.9
Std Dev 669.2
200
100
0
−100
−200

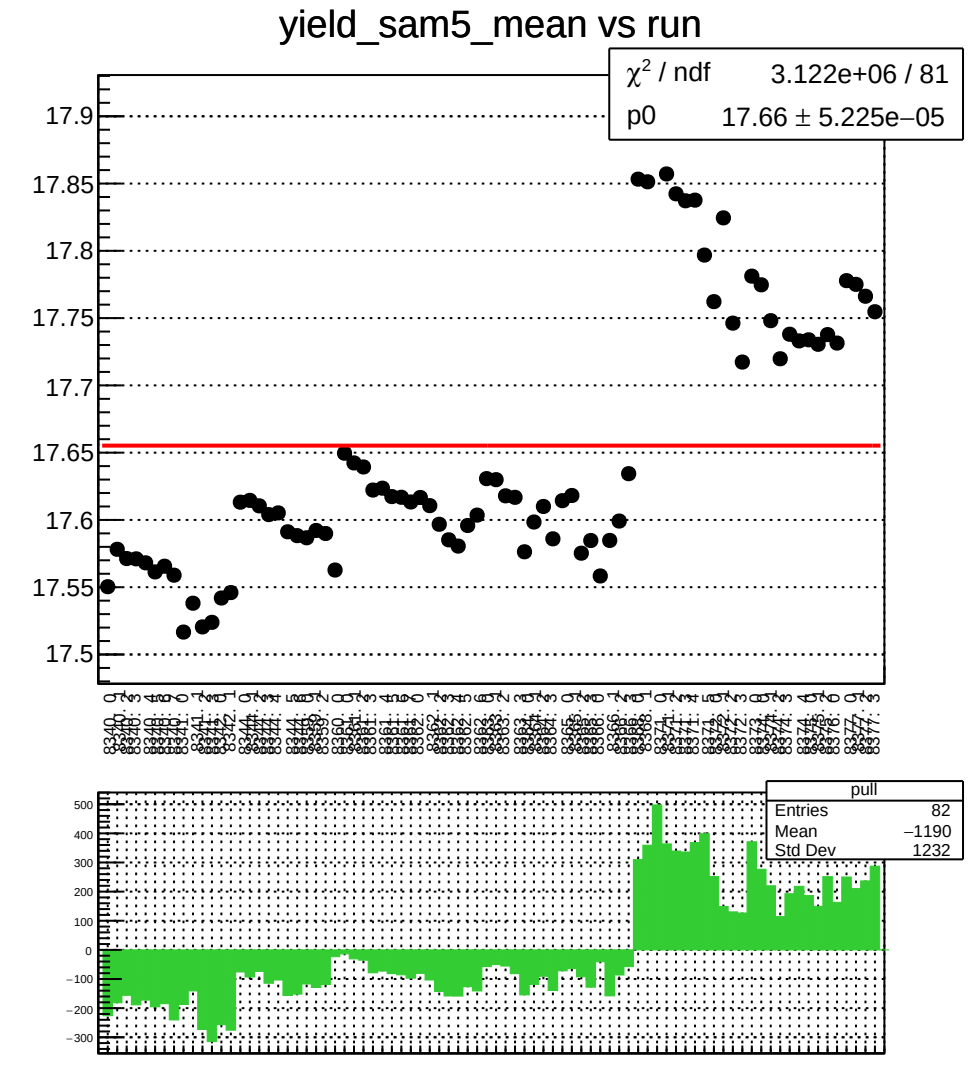

pull1D
Entries 82
Mean −3.007
Std Dev 3.387
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

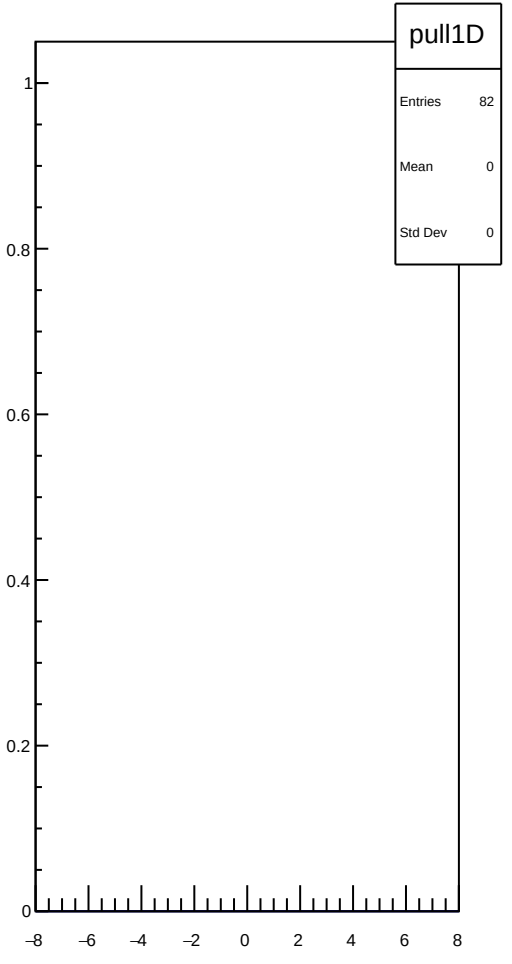

yield_sam3_rms vs run
χ² / ndf 3.195e+04 / 81
p0 0.168 ± 0.0001327
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15

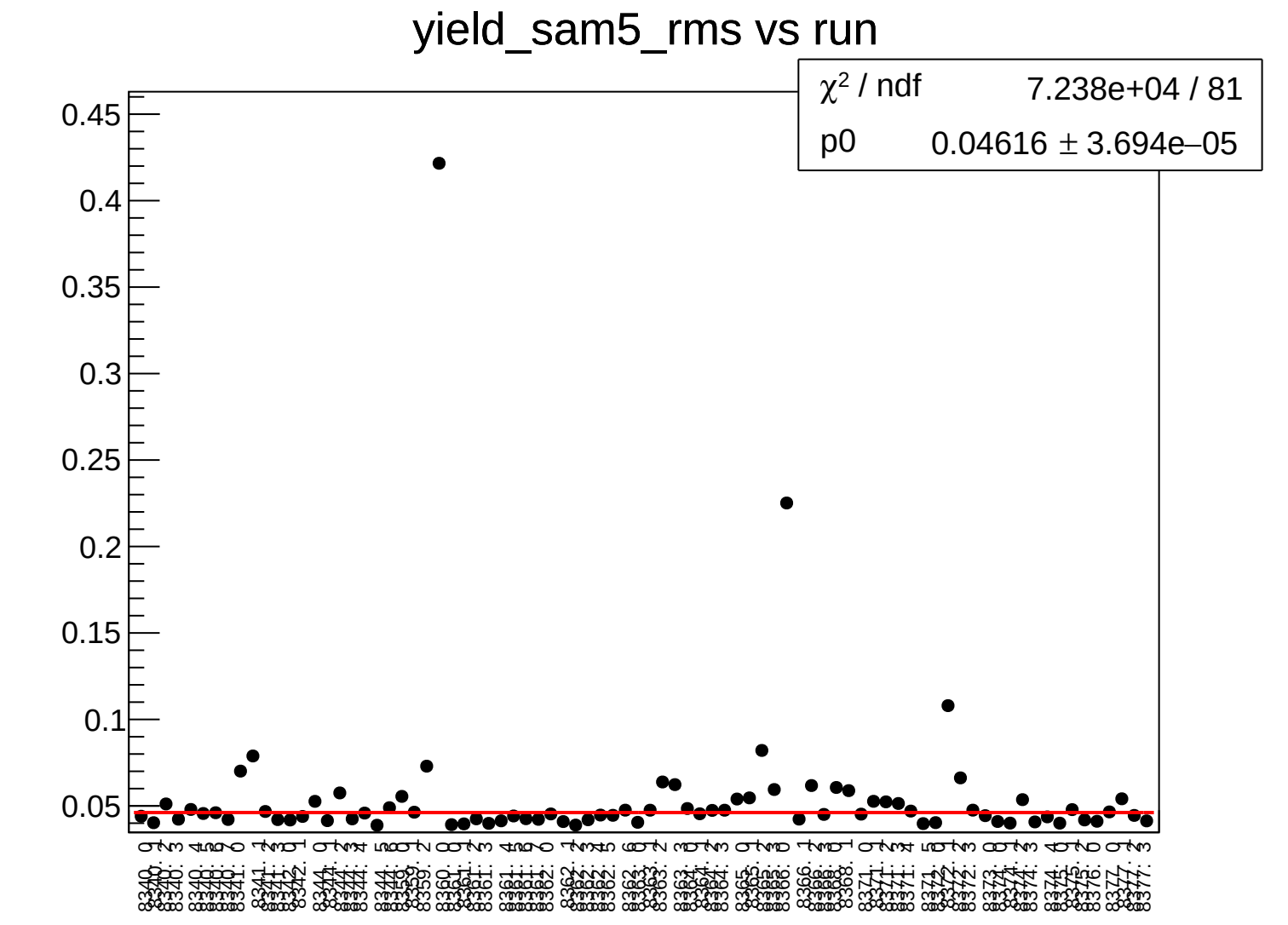

yield_sam4_mean vs run
χ² / ndf 2.707e+05 / 81
p0 14.71± 0.0001831
15
14.9
14.8
14.7
14.6
14.5
14.4
pull
Entries 82
Mean −207.9
Std Dev 256.6
150
100
50
0
−50
−100

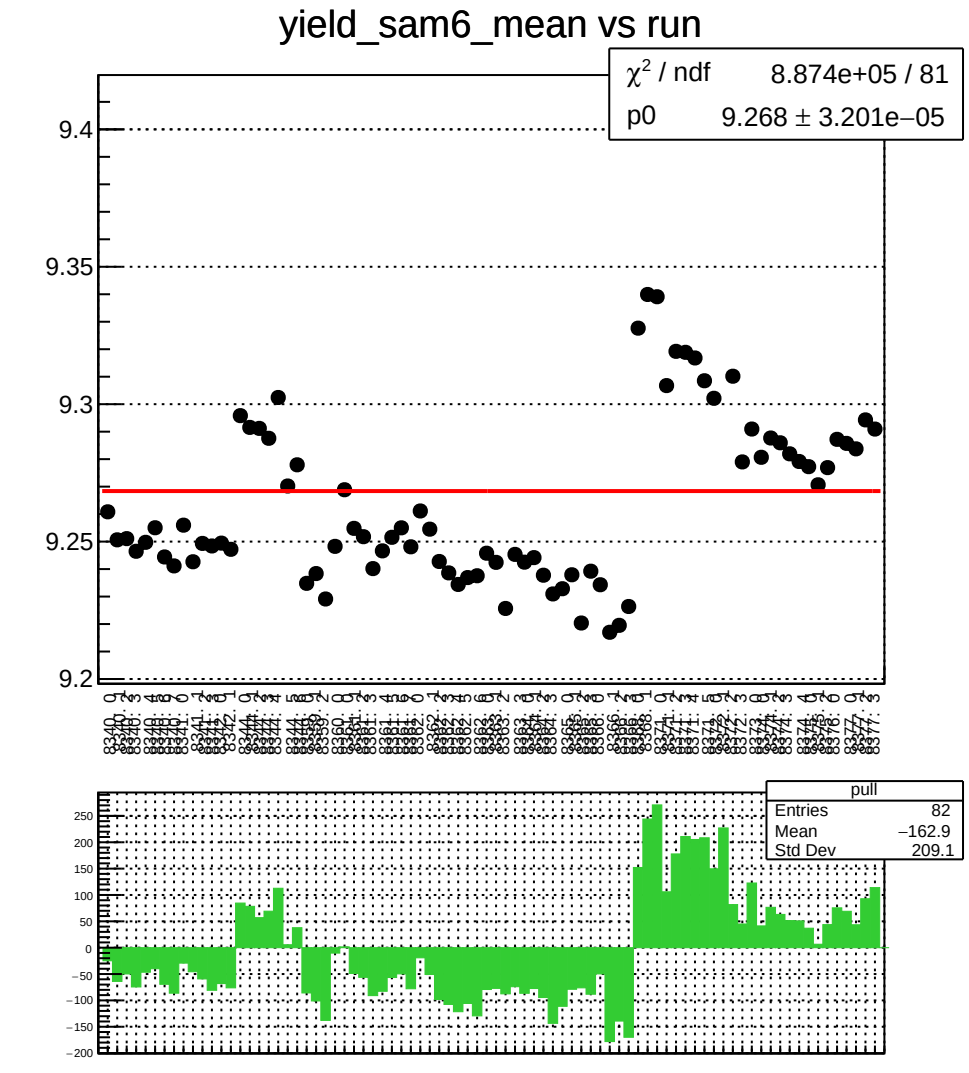

pull1D
Entries 82
Mean −1.428
Std Dev 4.982
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

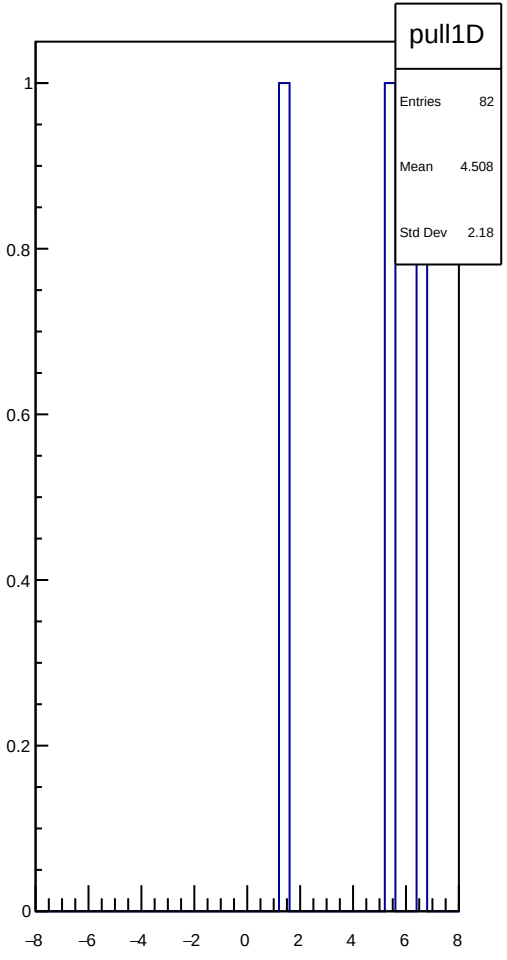

yield_sam4_rms vs run
χ² / ndf 3.491e+04 / 81
p0 0.1636 ± 0.0001294
0.6
0.5
0.4
0.3
0.2
0.1

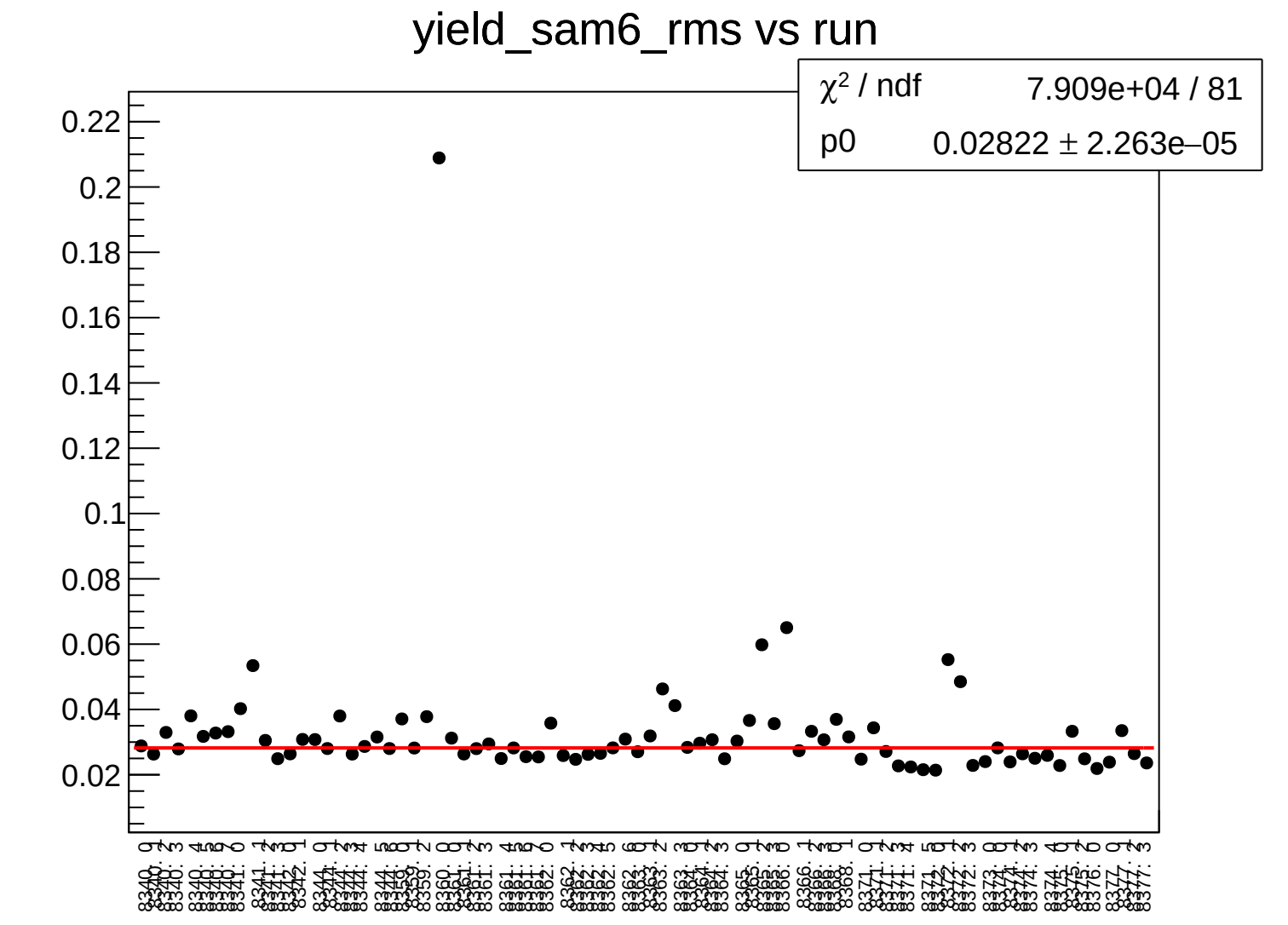

yield_sam5_mean vs run
χ² / ndf 3.122e+06 / 81
p0 17.66 ± 5.225e−05
17.9
17.85
17.8
17.75
17.7
17.65
17.6
17.55
17.5
pull
Entries 82
Mean −1190
Std Dev 1232
500
400
300
200
100
0
−100
−200
−300

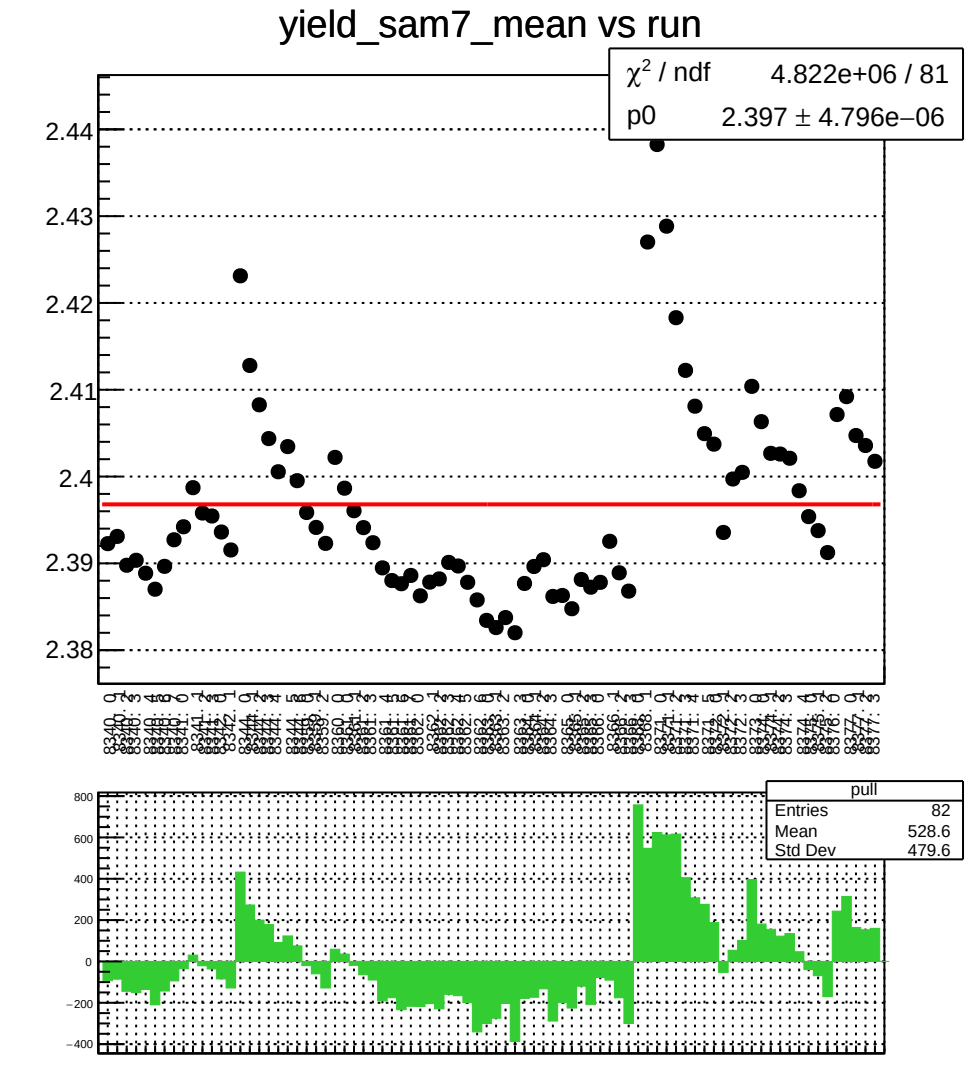

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

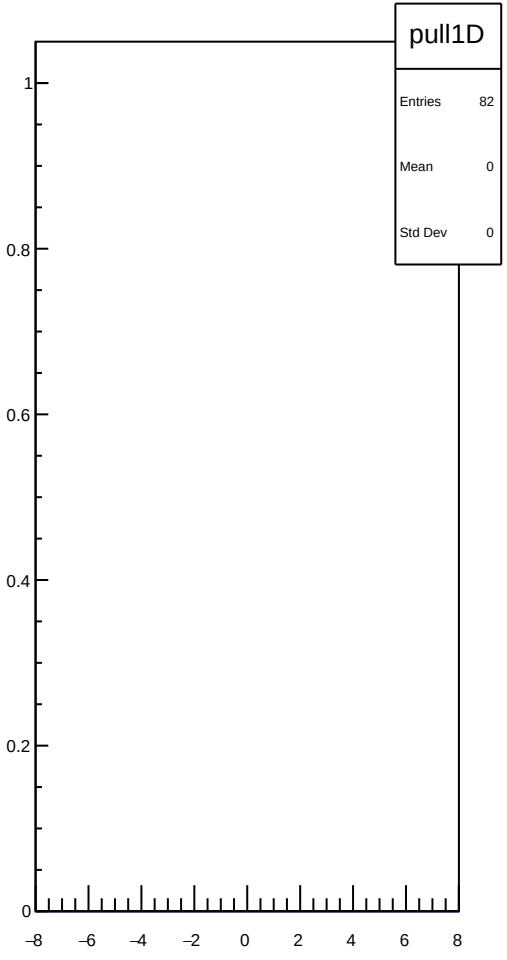

yield_sam5_rms vs run
χ² / ndf 7.238e+04 / 81
p0 0.04616 ± 3.694e–05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

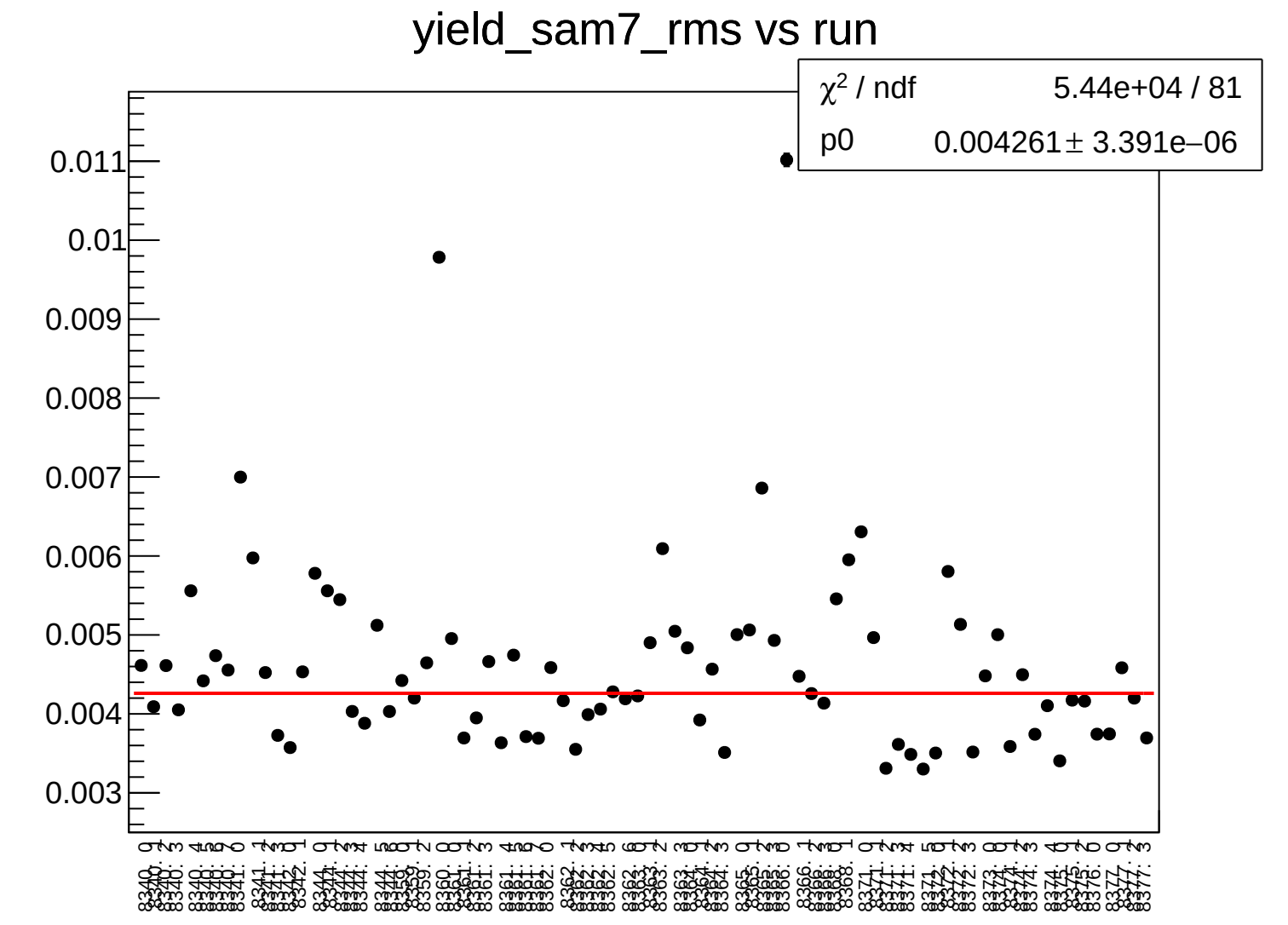

yield_sam6_mean vs run
χ² / ndf 8.874e+05 / 81
p0 9.268 ± 3.201e−05
9.4
9.35
9.3
9.25
9.2
pull
Entries 82
Mean −162.9
Std Dev 209.1
250
200
150
100
50
0
−50
−100
−150
−200

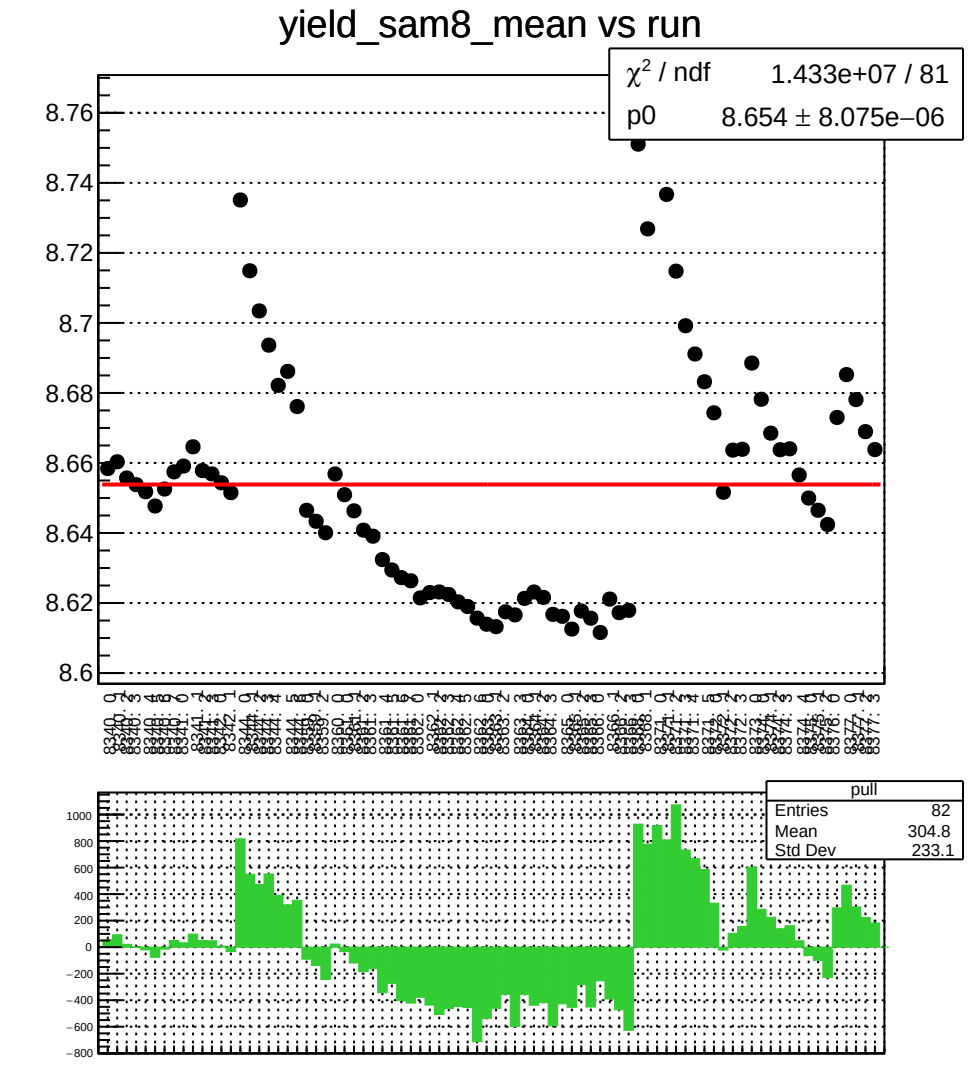

pull1D
Entries 82
Mean 4.508
Std Dev 2.18
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

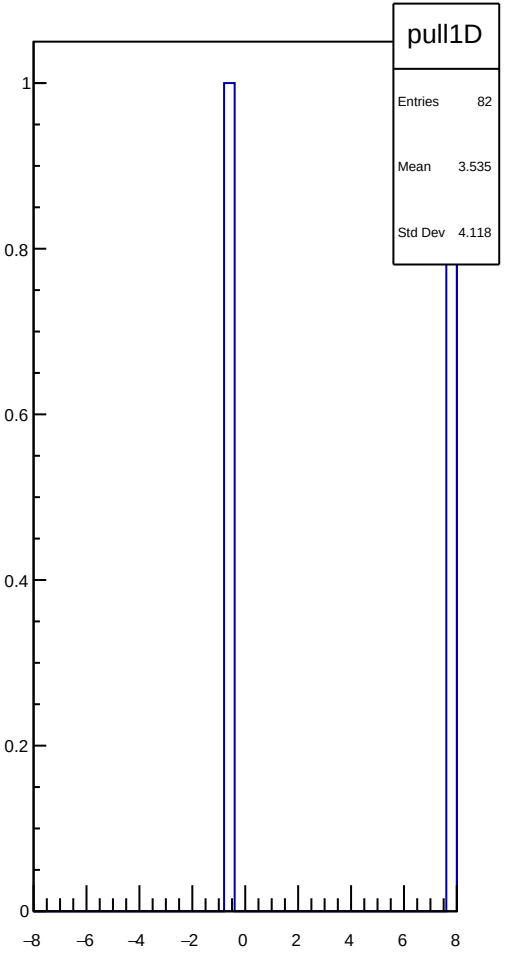

yield_sam6_rms vs run
χ² / ndf 7.909e+04 / 81
p0 0.02822 ± 2.263e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

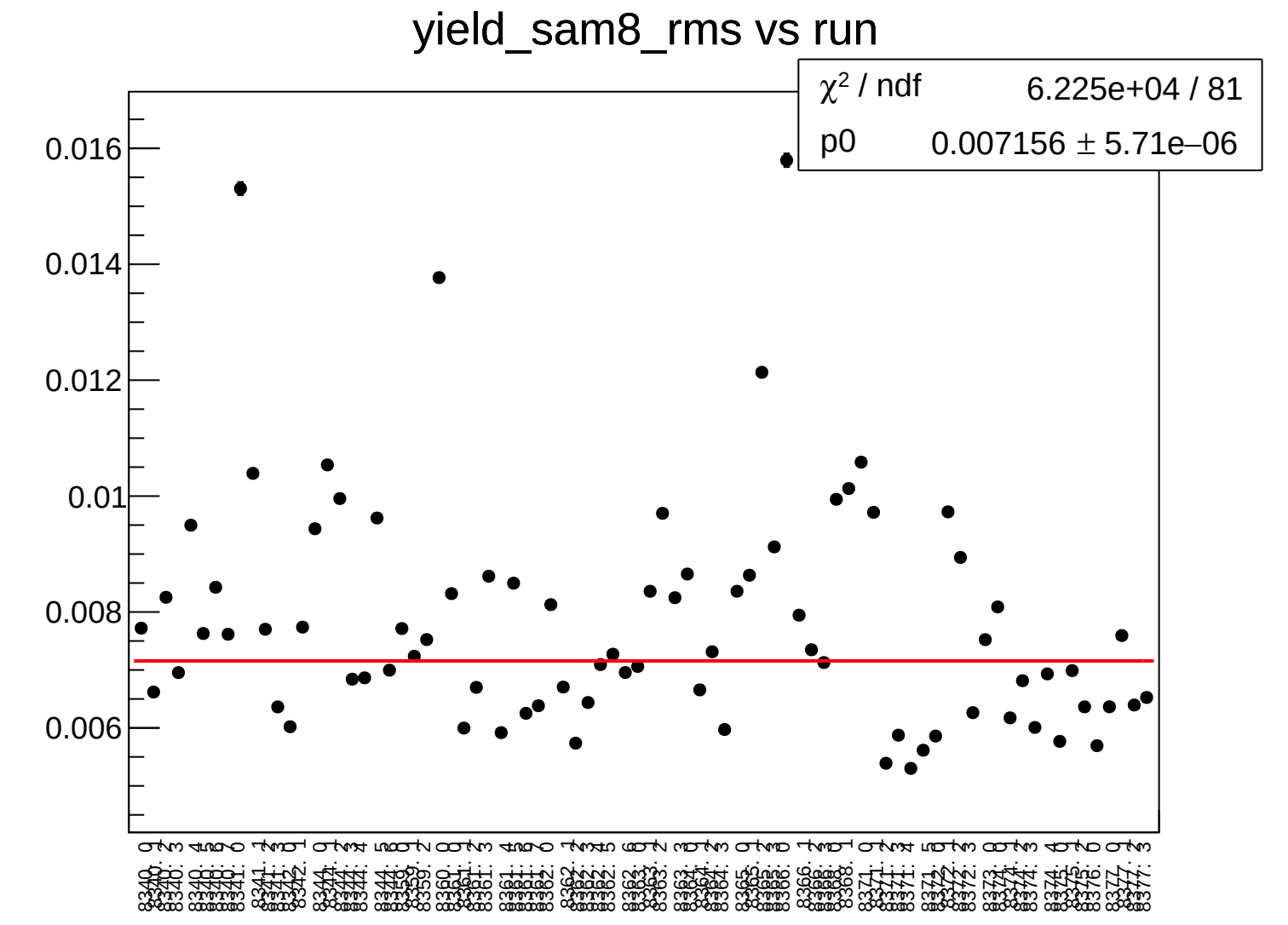

yield_sam7_mean vs run
χ² / ndf 4.822e+06 / 81
p0 2.397 ± 4.796e−06
2.44
2.43
2.42
2.41
2.4
2.39
2.38
pull
Entries 82
Mean 528.6
Std Dev 479.6
800
600
400
200
0
−200
−400

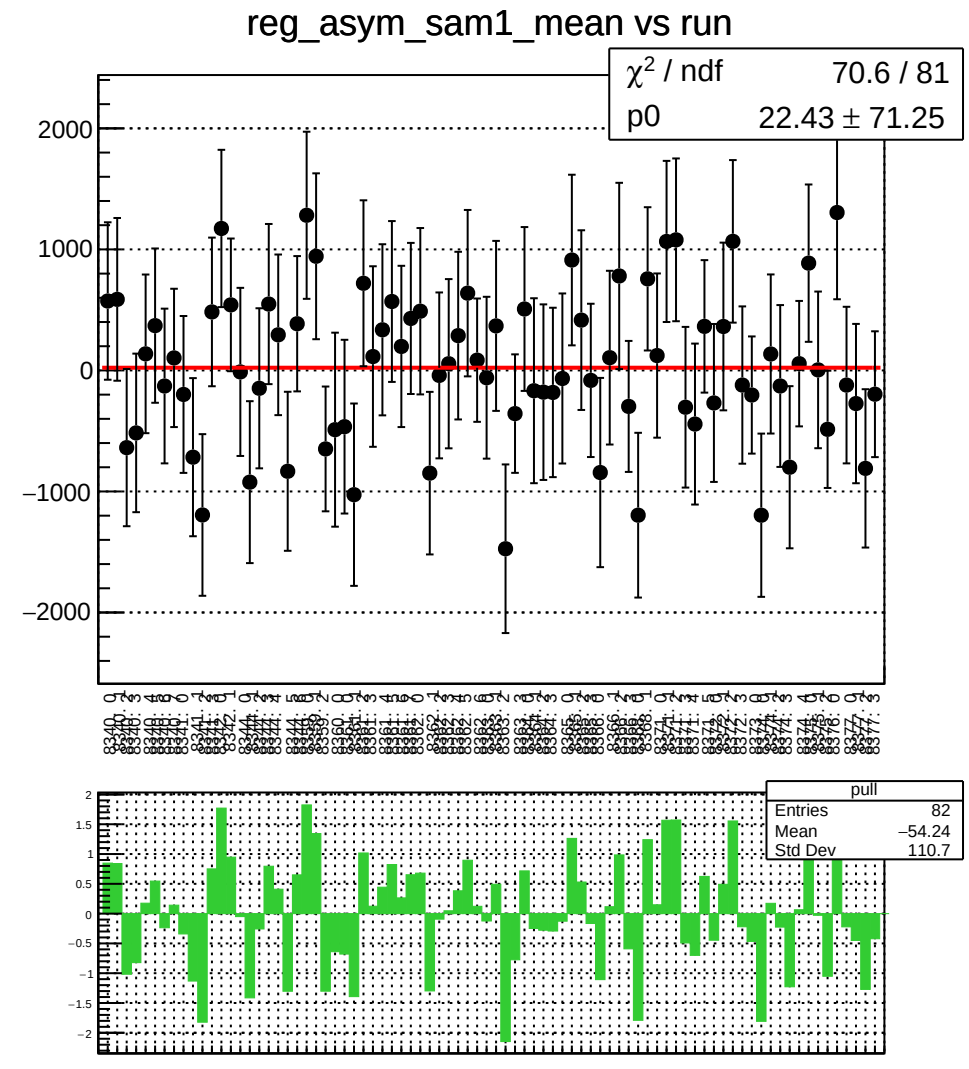

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

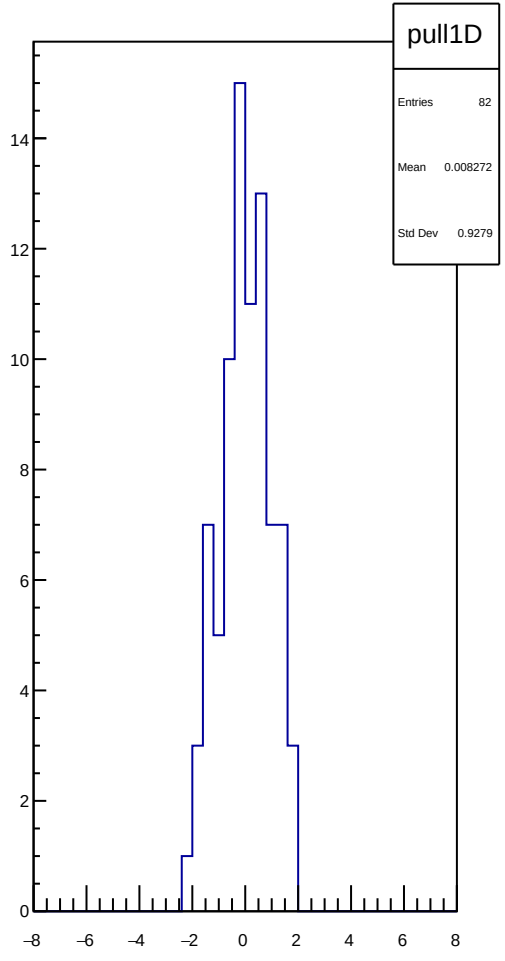

yield_sam7_rms vs run
χ² / ndf 5.44e+04 / 81
p0 0.004261 ± 3.391e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

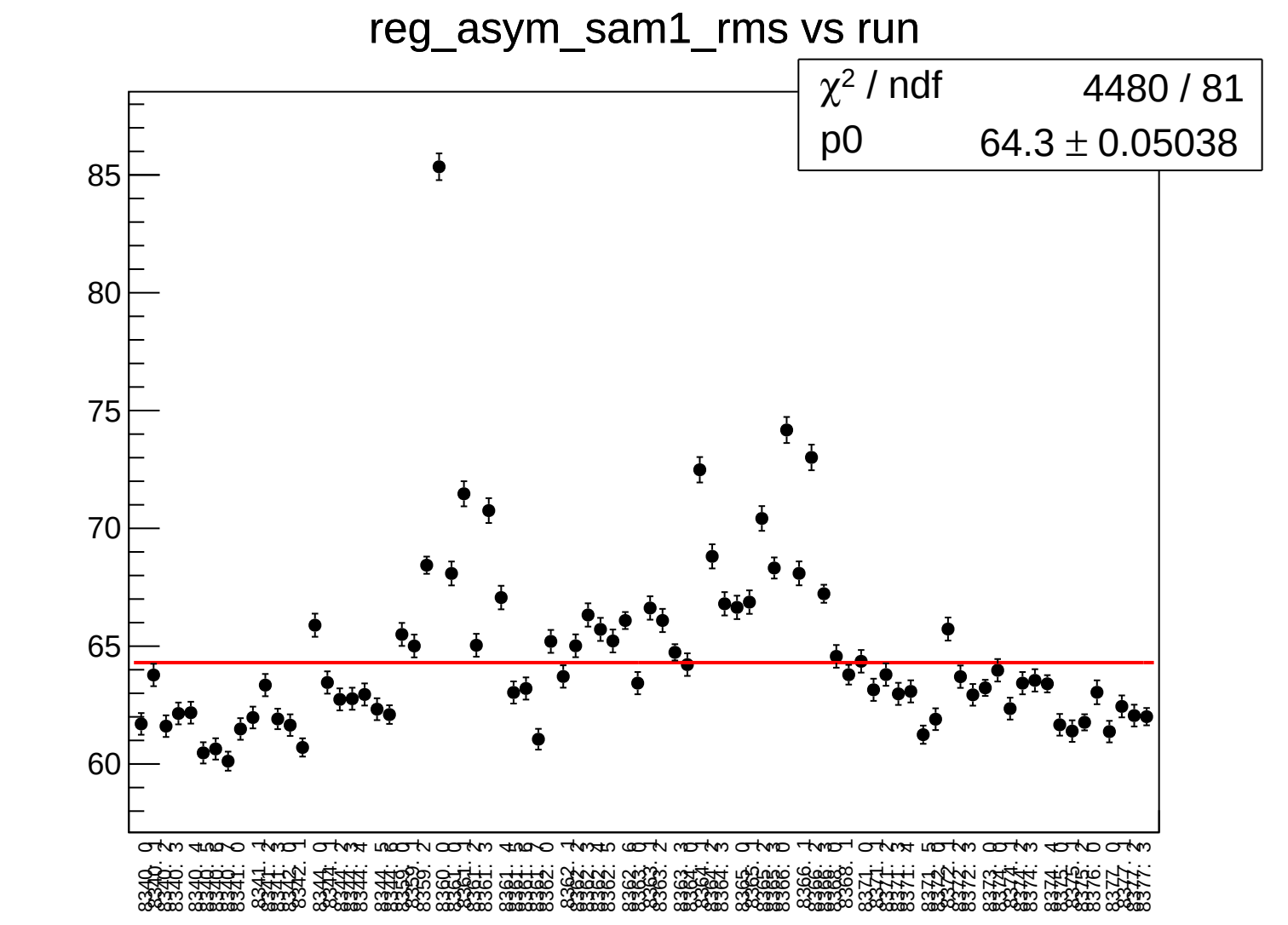

yield_sam8_mean vs run
χ² / ndf 1.433e+07 / 81
p0 8.654 ± 8.075e−06
8.76
8.74
8.72
8.7
8.68
8.66
8.64
8.62
8.6
pull
Entries 82
Mean 304.8
Std Dev 233.1
1000
800
600
400
200
0
−200
−400
−600
−800

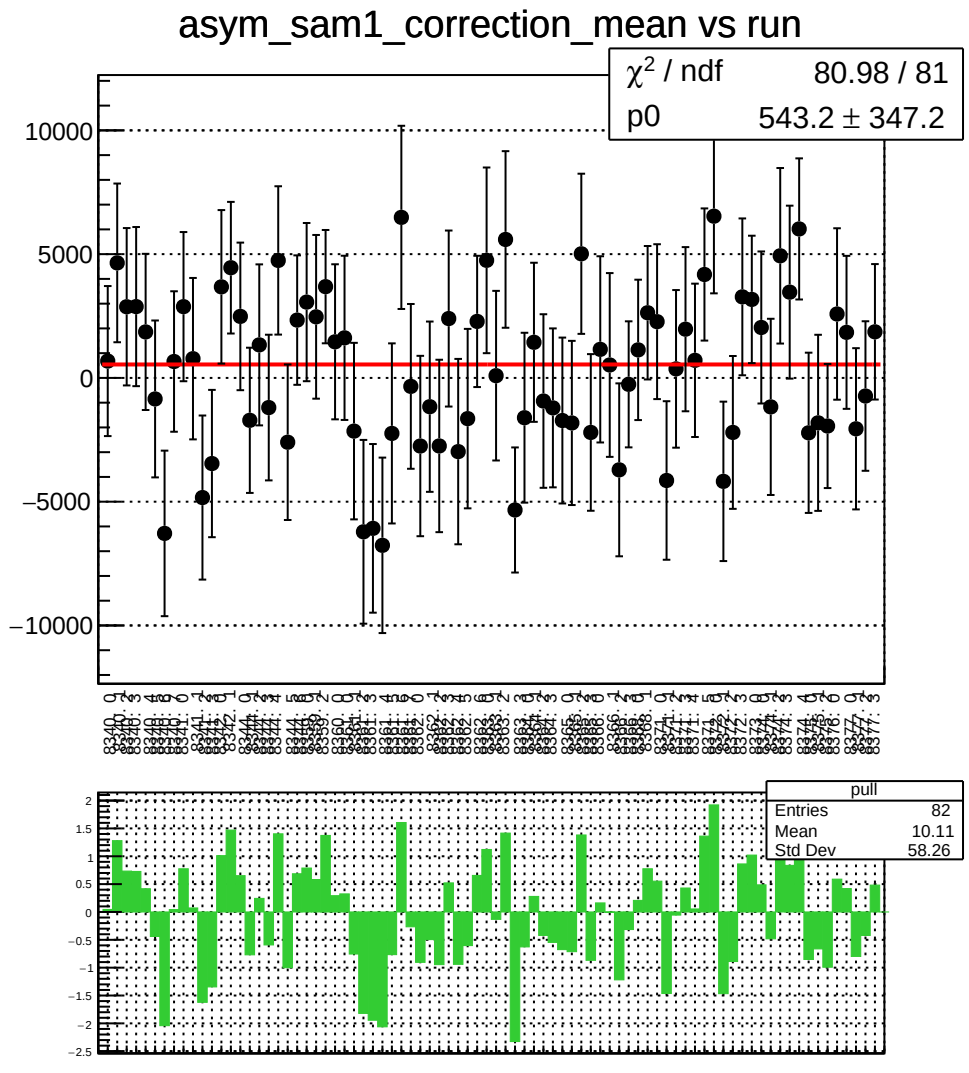

pull1D
Entries 82
Mean 3.535
Std Dev 4.118
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

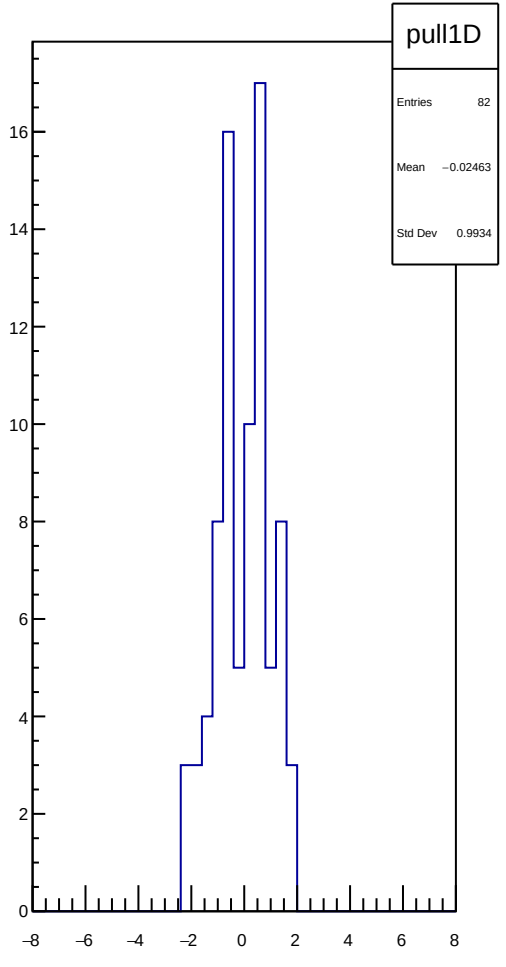

yield_sam8_rms vs run
χ² / ndf 6.225e+04 / 81
p0 0.007156 ± 5.71e−06
0.016
0.014
0.012
0.01
0.008
0.006

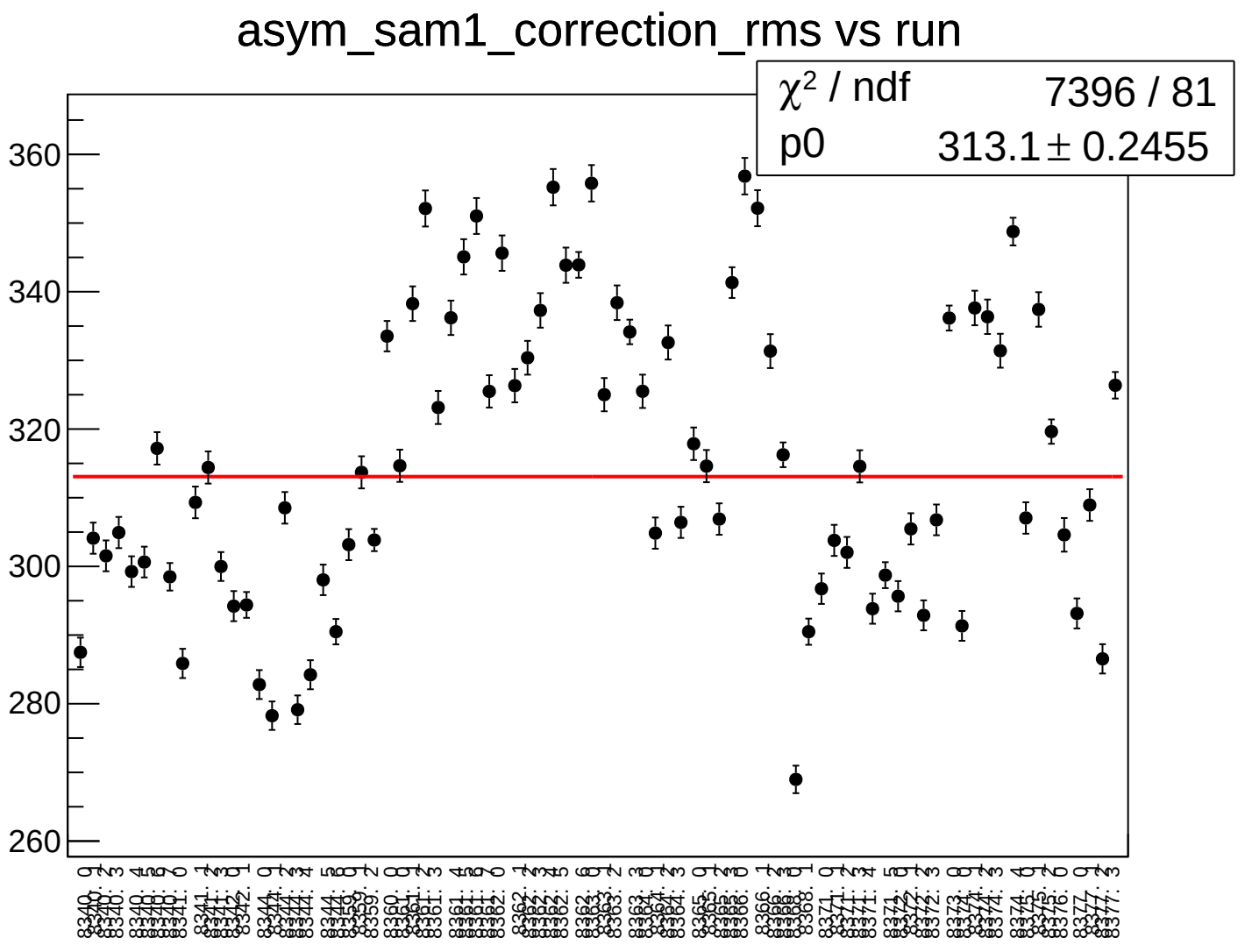

reg_asym_sam1_mean vs run
χ^2 / ndf 70.6 / 81
p0 22.43 ± 71.25
2000
1000
0
−1000
−2000
pull
Entries 82
Mean −54.24
Std Dev 110.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

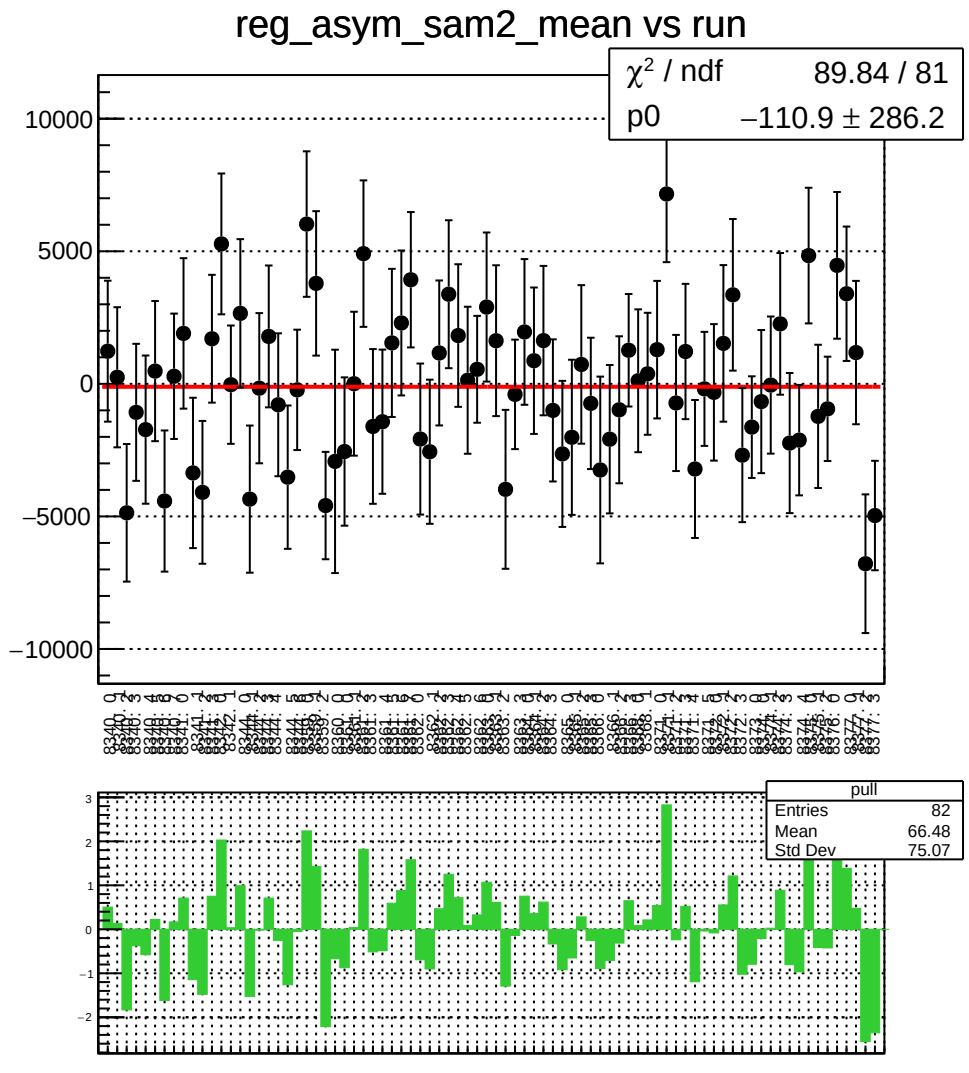

pull1D
Entries 82
Mean 0.008272
Std Dev 0.9279
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

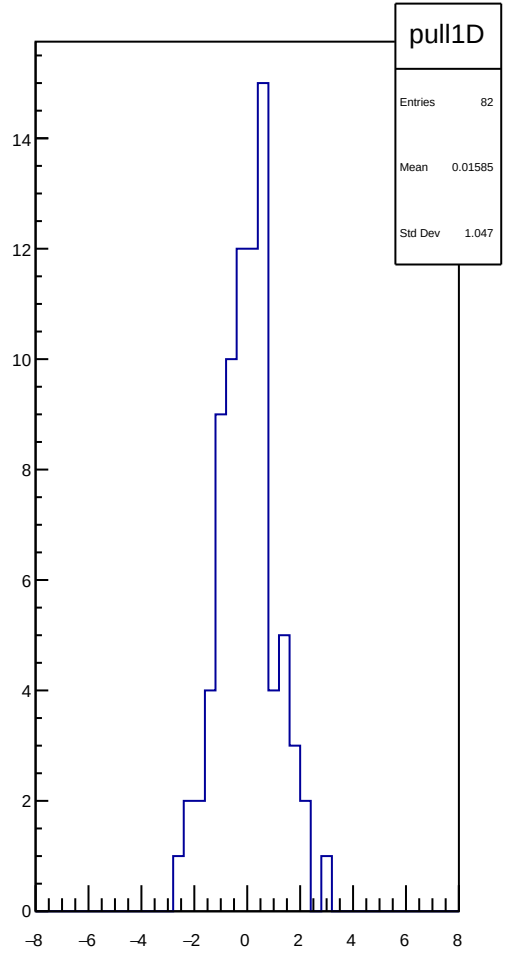

reg_asym_sam1_rms vs run
χ² / ndf 4480 / 81
p0 64.3 ± 0.05038
85
80
75
70
65
60

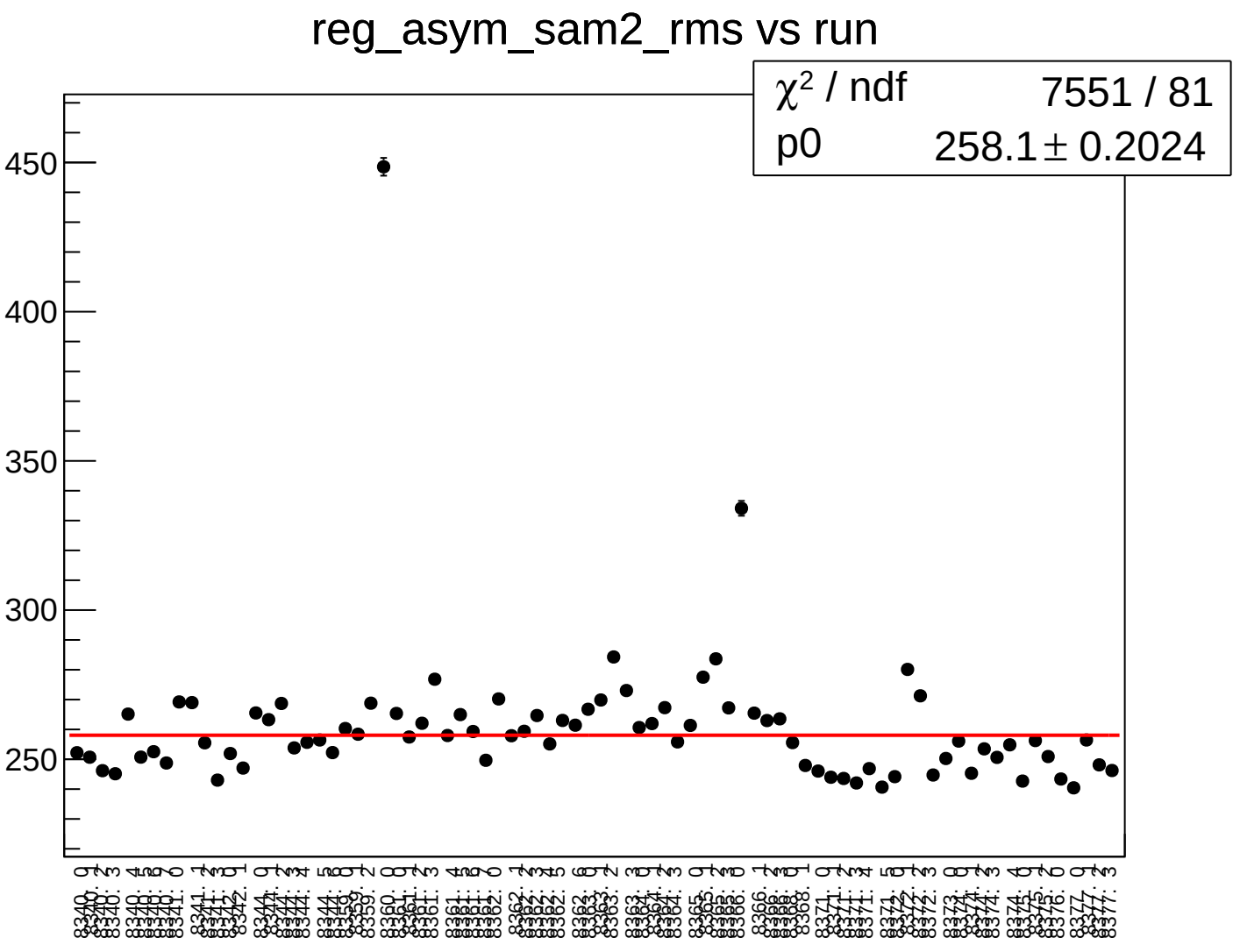

asym_sam1_correction_mean vs run
χ² / ndf 80.98 / 81
p0 543.2 ± 347.2
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 10.11
Std Dev 58.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

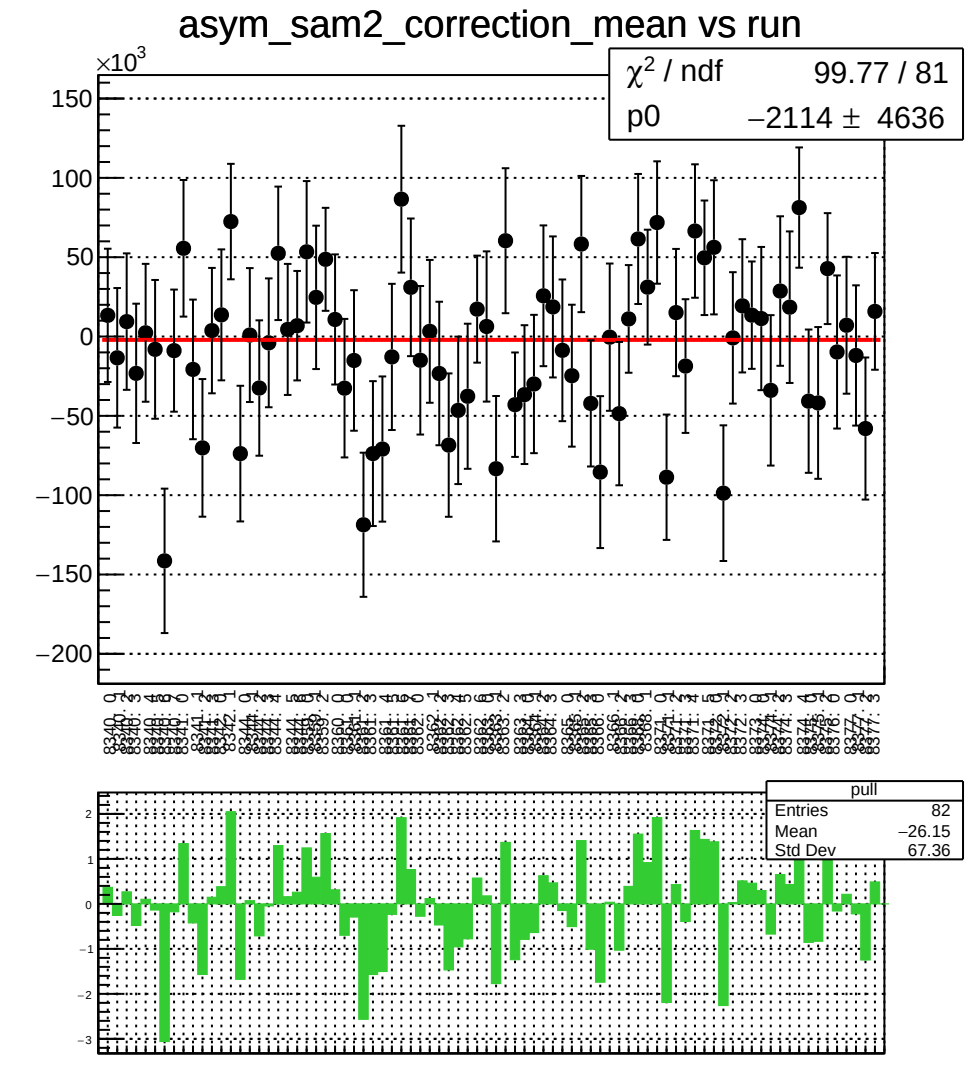

pull1D
Entries 82
Mean −0.02463
Std Dev 0.9934
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

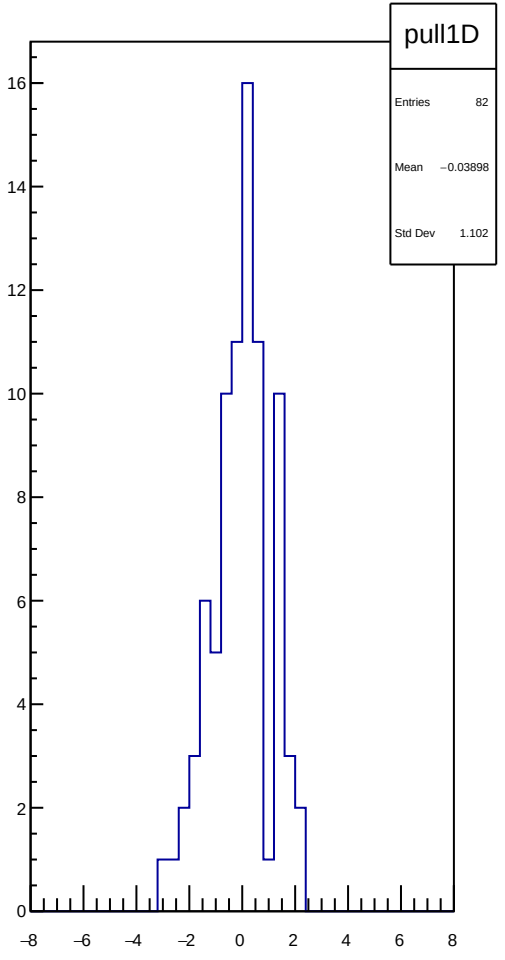

asym_sam1_correction_rms vs run
χ² / ndf 7396 / 81
p0 313.1 ± 0.2455
360
340
320
300
280
260

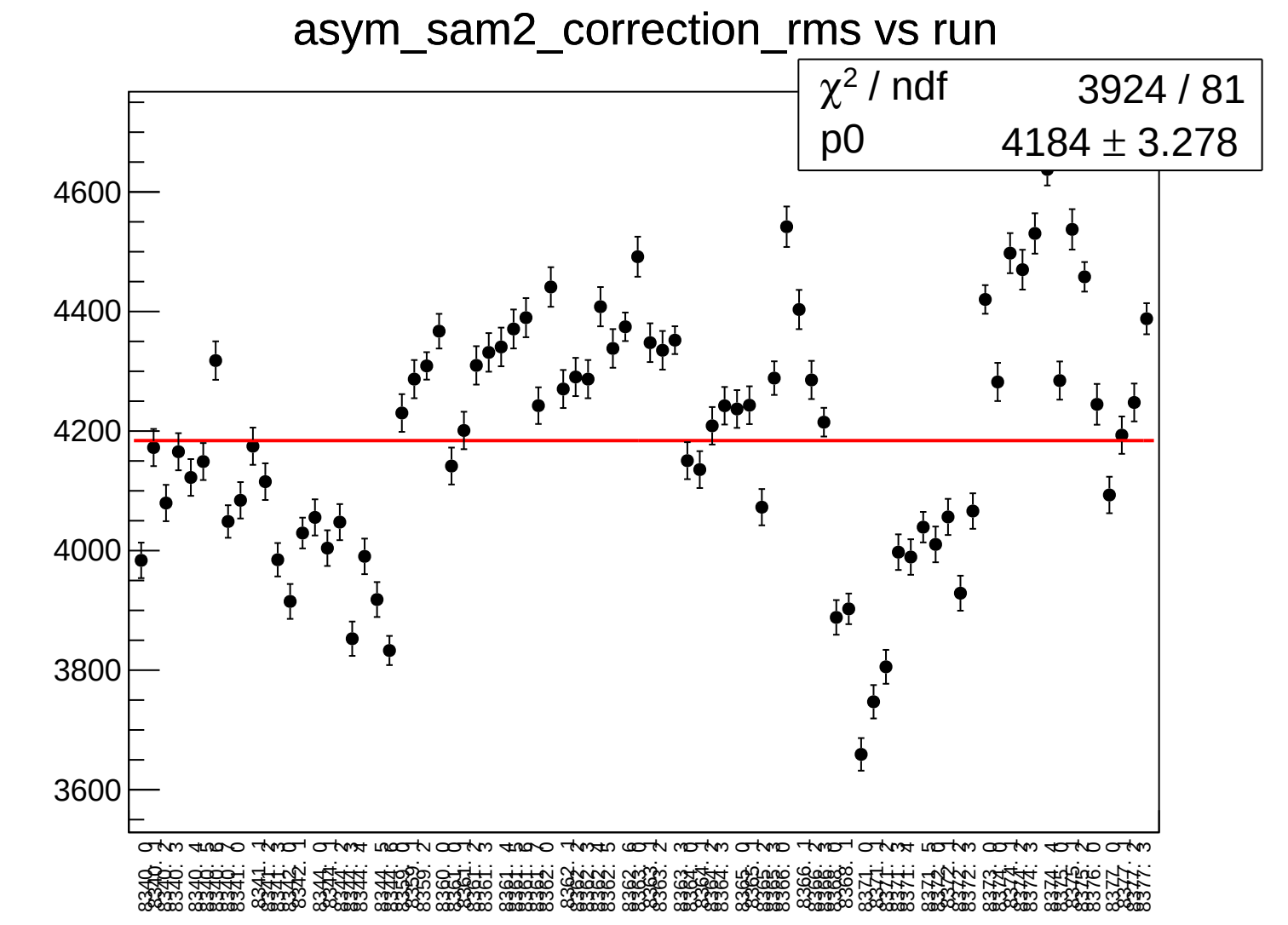

reg_asym_sam2_mean vs run
χ² / ndf 89.84 / 81
p0 −110.9 ± 286.2
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 66.48
Std Dev 75.07
3
2
1
0
−1
−2

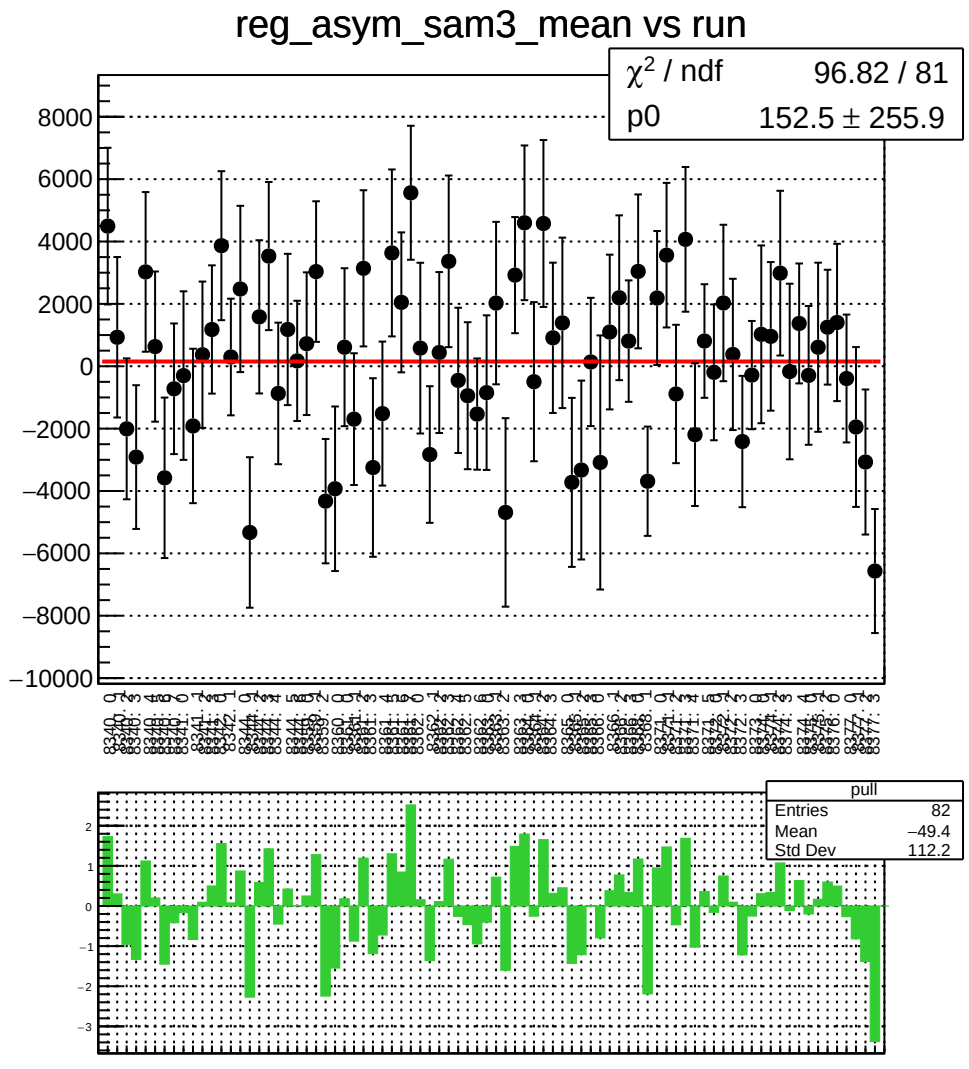

pull1D
Entries 82
Mean 0.01585
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

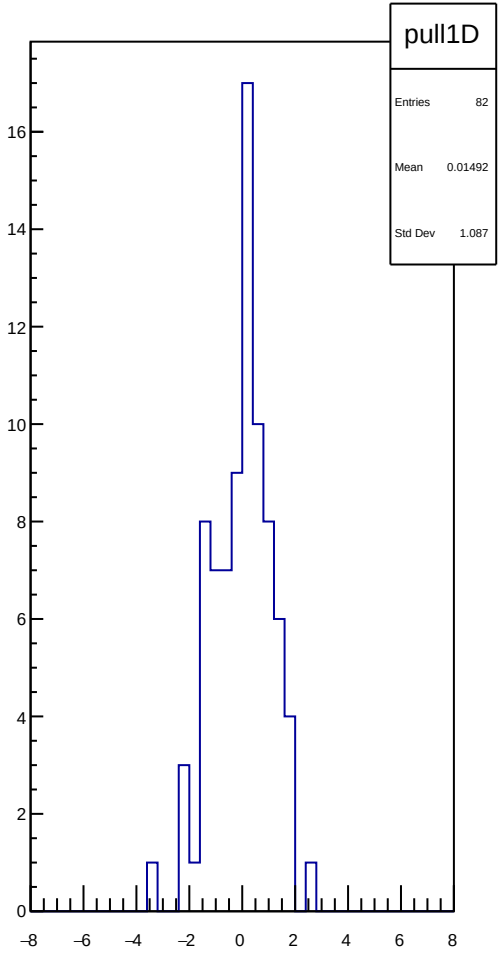

reg_asym_sam2_rms vs run
χ² / ndf 7551 / 81
p0 258.1 ± 0.2024
450
400
350
300
250

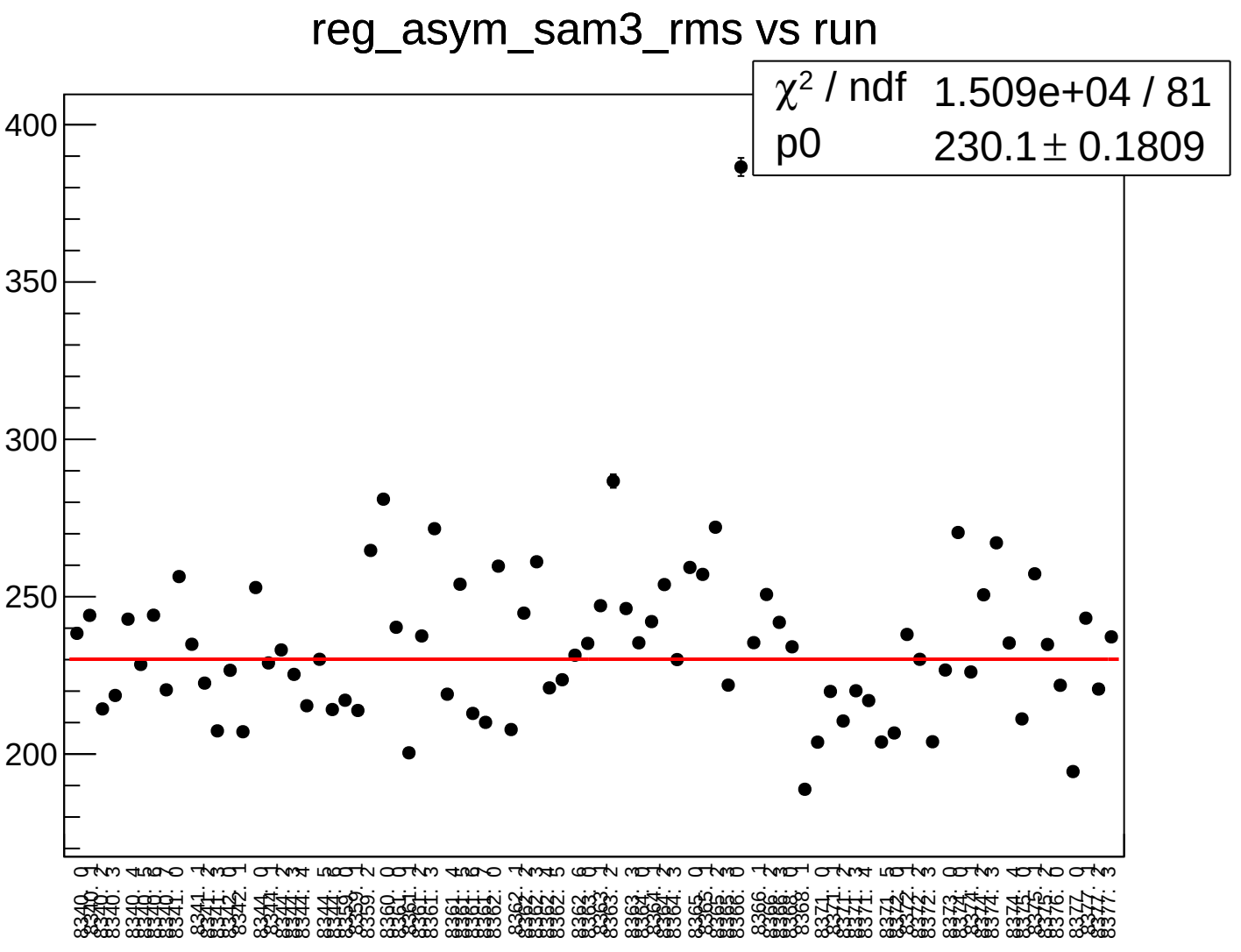

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 99.77 / 81
p0 −2114 ± 4636
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean −26.15
Std Dev 67.36
2
1
0
−1
−2
−3

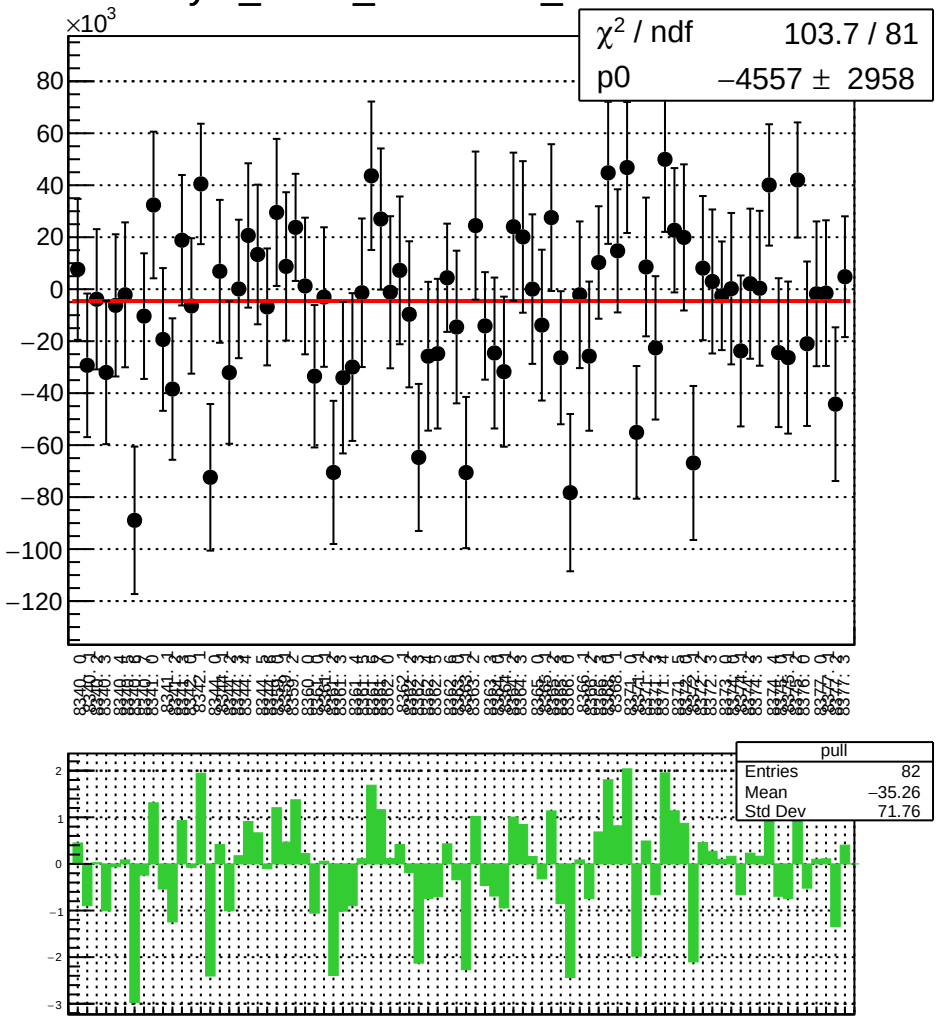

pull1D
Entries 82
Mean −0.03898
Std Dev 1.102
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

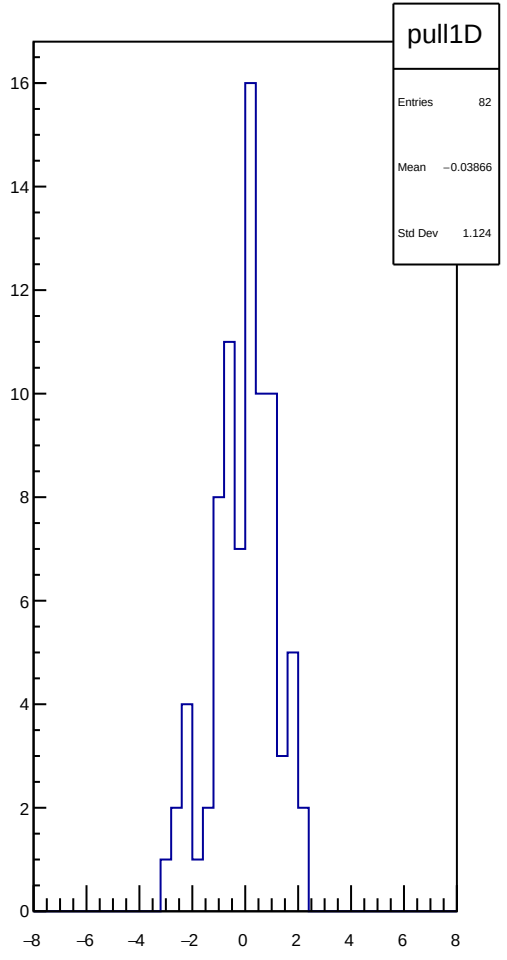

asym_sam2_correction_rms vs run
χ² / ndf 3924 / 81
p0 4184 ± 3.278
4600
4400
4200
4000
3800
3600

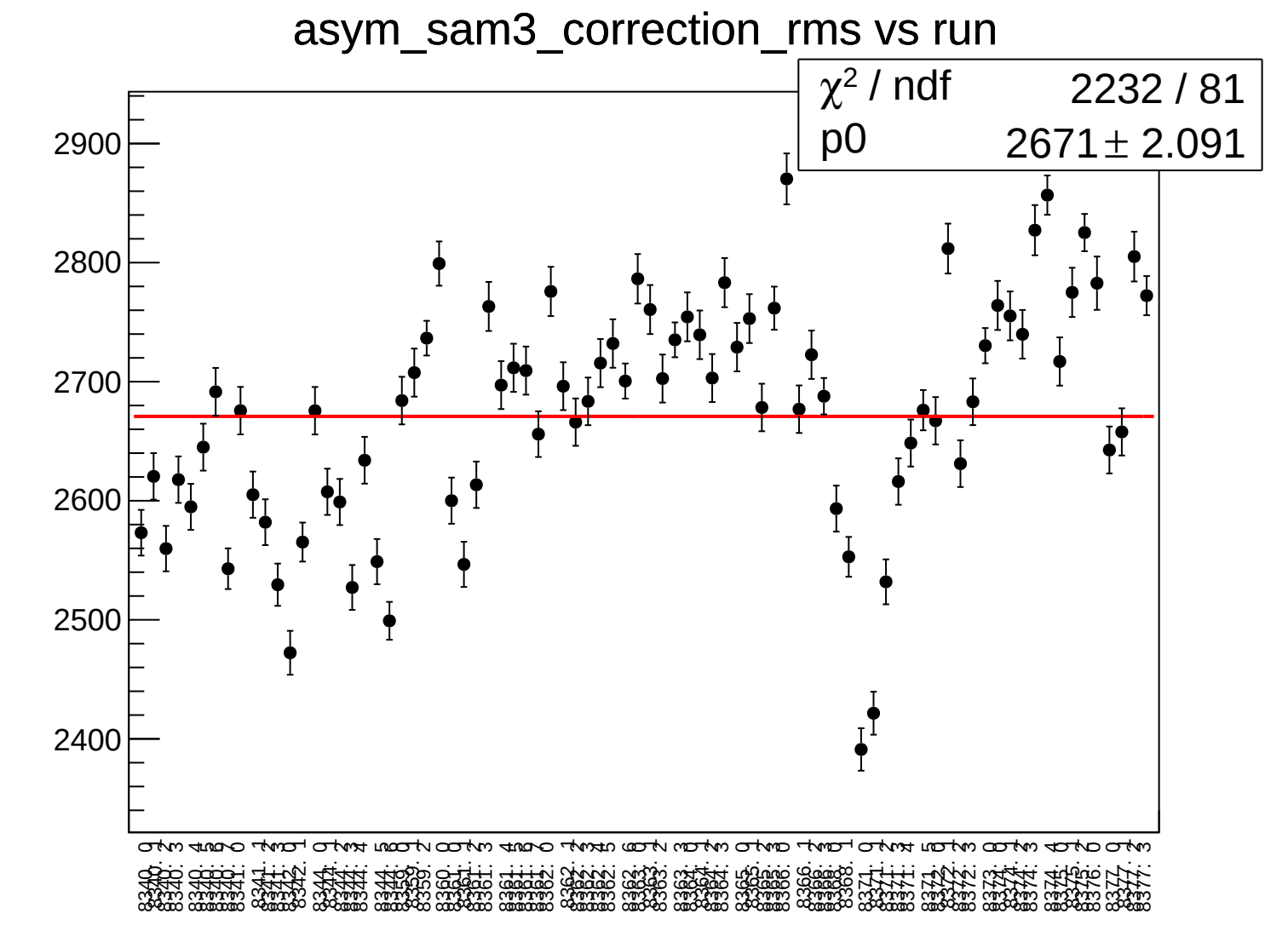

reg_asym_sam3_mean vs run
χ² / ndf 96.82 / 81
p0 152.5 ± 255.9
pull
Entries 82
Mean −49.4
Std Dev 112.2

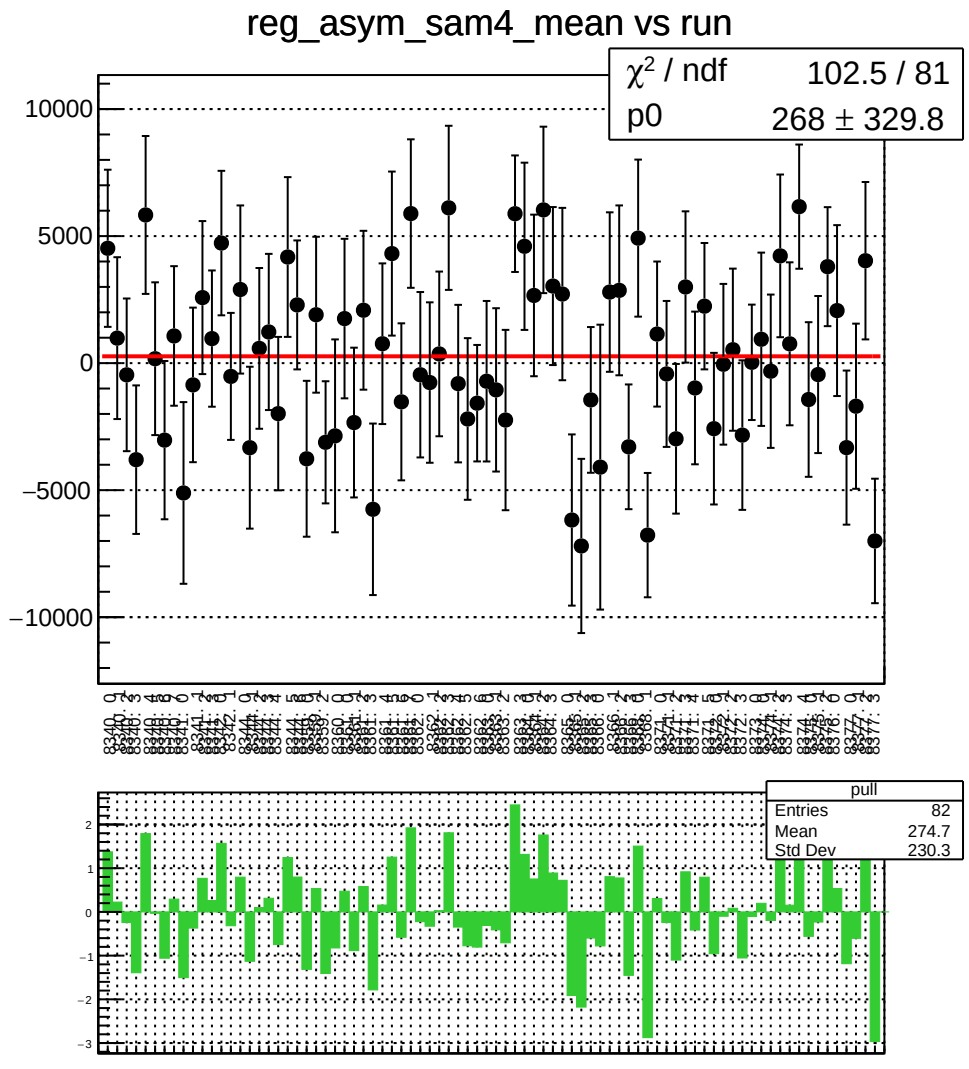

pull1D
Entries 82
Mean 0.01492
Std Dev 1.087

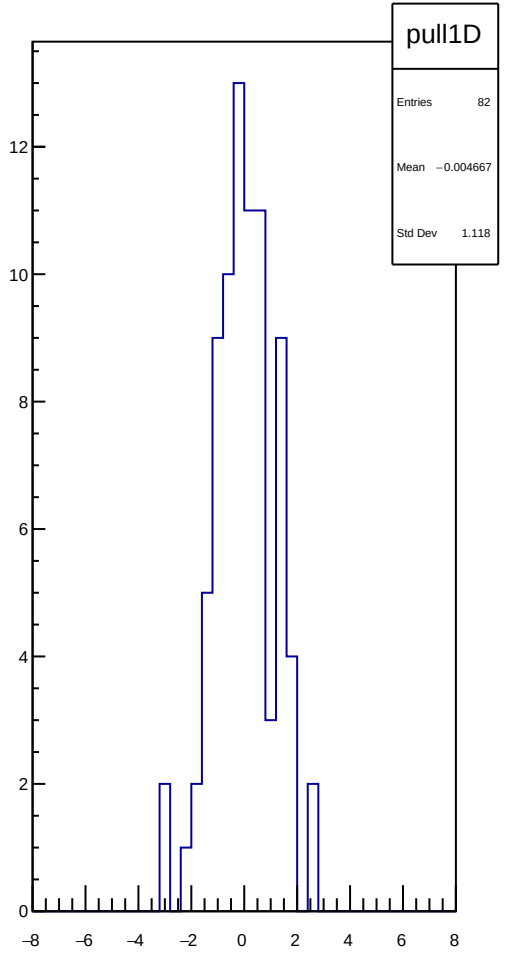

reg_asym_sam3_rms vs run
χ² / ndf 1.509e+04 / 81
p0 230.1 ± 0.1809
400
350
300
250
200

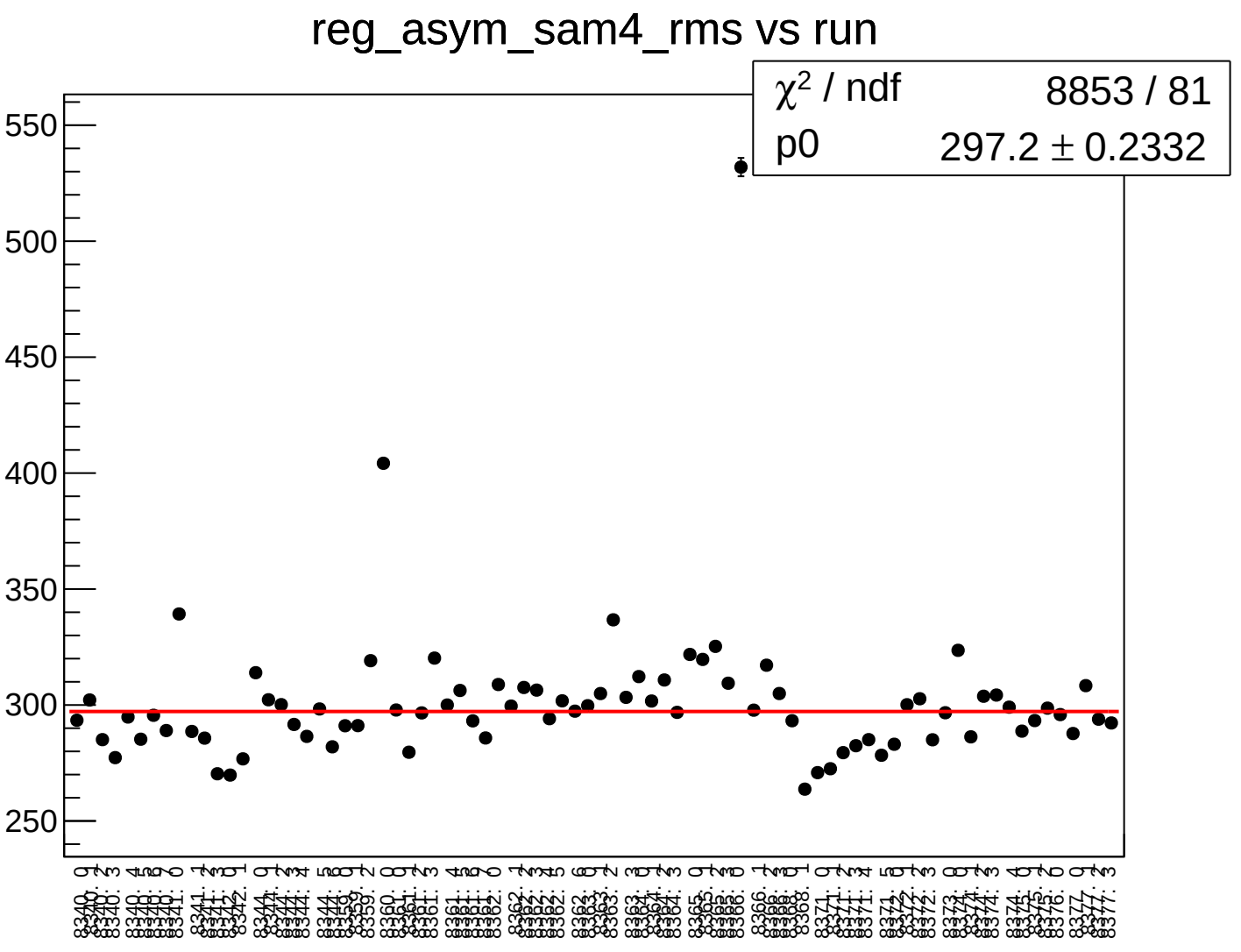

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 103.7 / 81
p0 −4557 ± 2958
pull
Entries 82
Mean −35.26
Std Dev 71.76

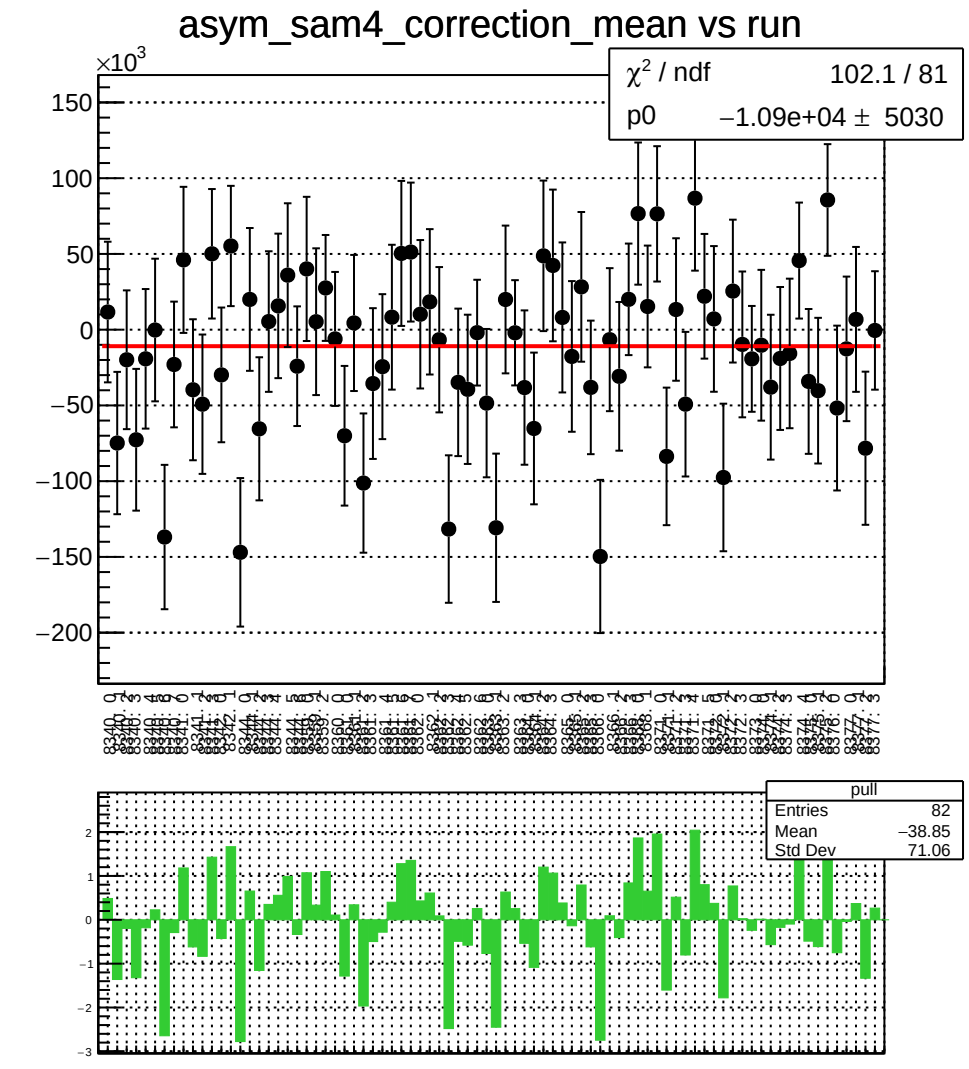

pull1D
Entries 82
Mean −0.03866
Std Dev 1.124

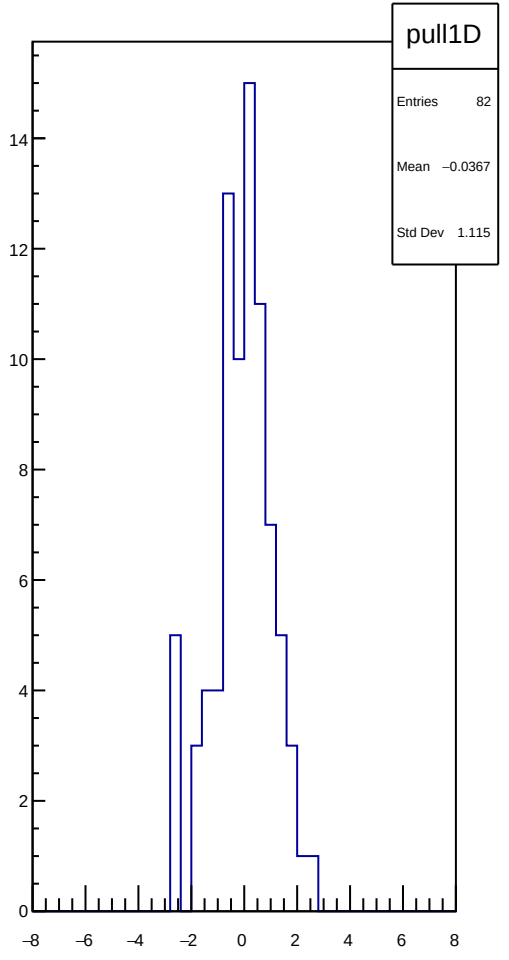

asym_sam3_correction_rms vs run
χ² / ndf 2232 / 81
p0 2671 ± 2.091
2900
2800
2700
2600
2500
2400

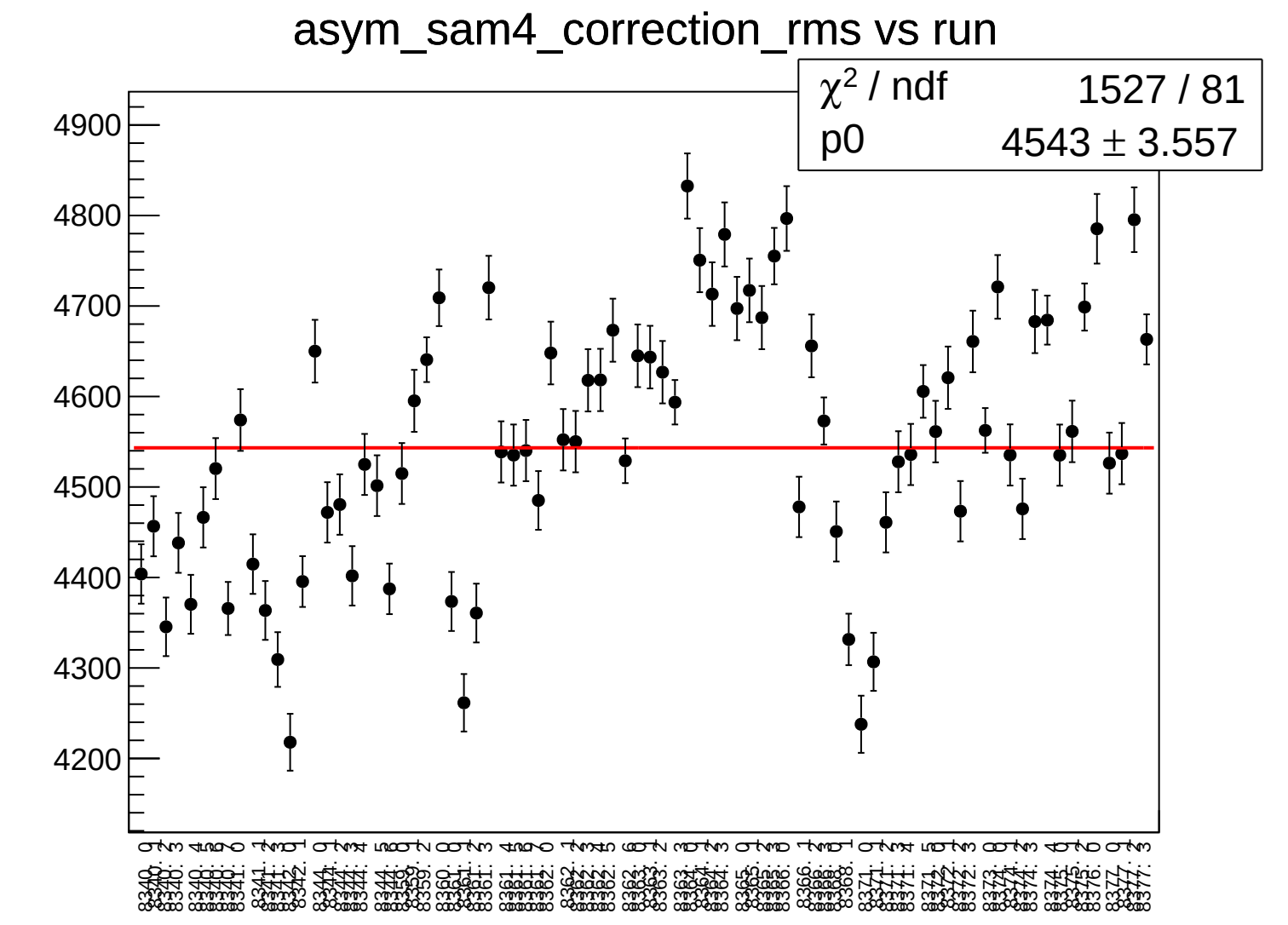

reg_asym_sam4_mean vs run
χ² / ndf 102.5 / 81
p0 268 ± 329.8
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 274.7
Std Dev 230.3
2
1
0
−1
−2
−3

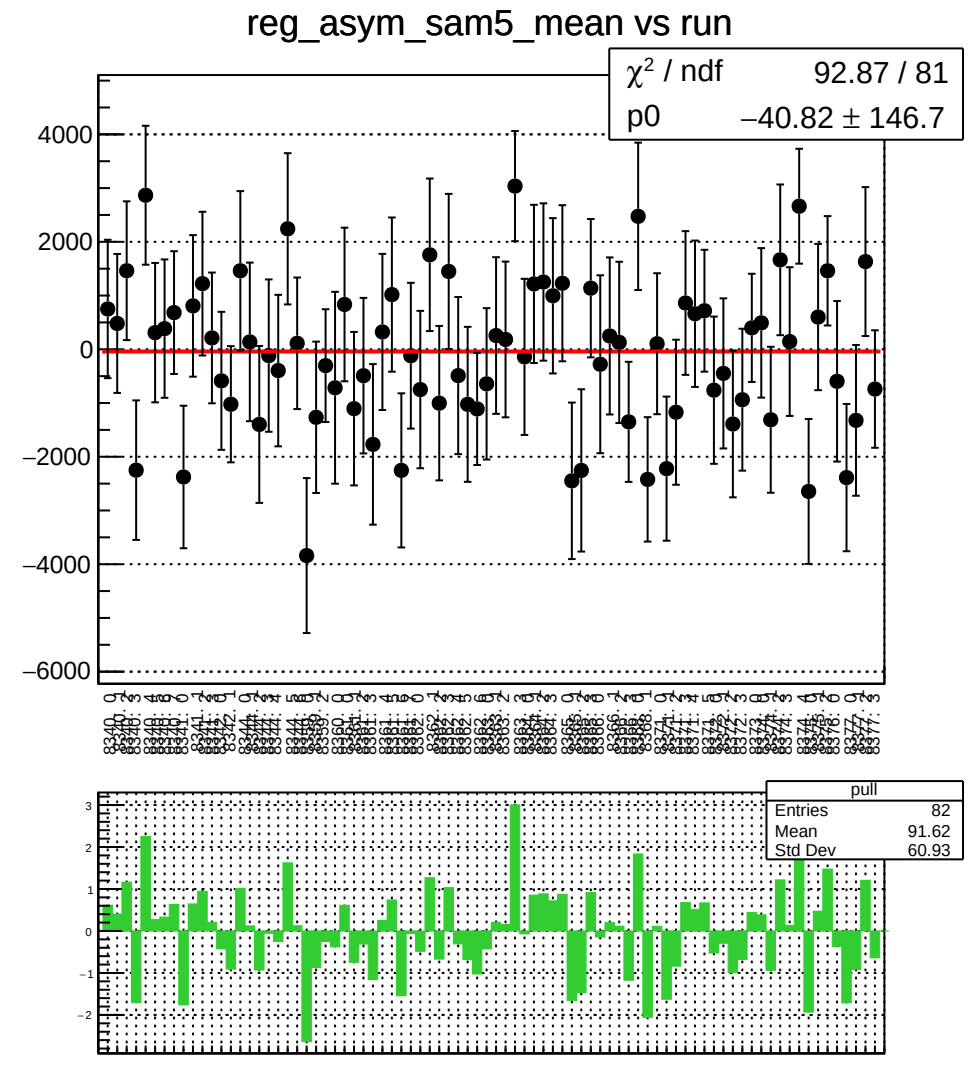

pull1D
Entries 82
Mean −0.004667
Std Dev 1.118
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

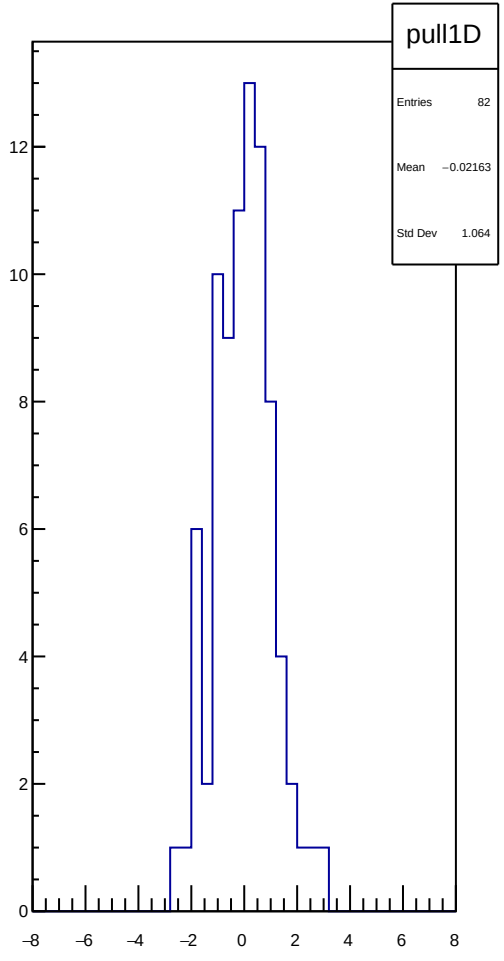

reg_asym_sam4_rms vs run
χ² / ndf 8853 / 81
p0 297.2 ± 0.2332
550
500
450
400
350
300
250

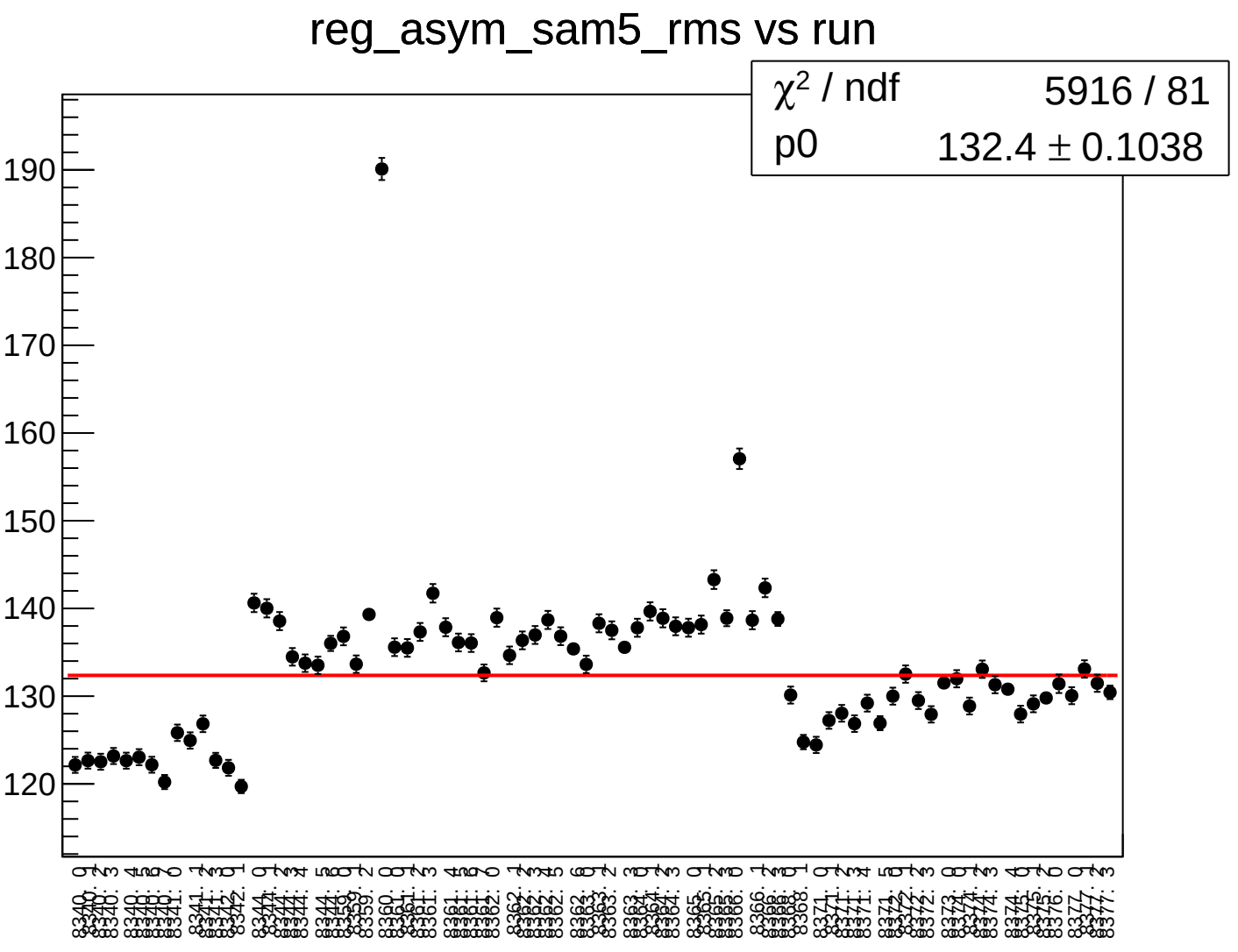

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 102.1 / 81
p0 −1.09e+04 ± 5030
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean −38.85
Std Dev 71.06
2
1
0
−1
−2
−3

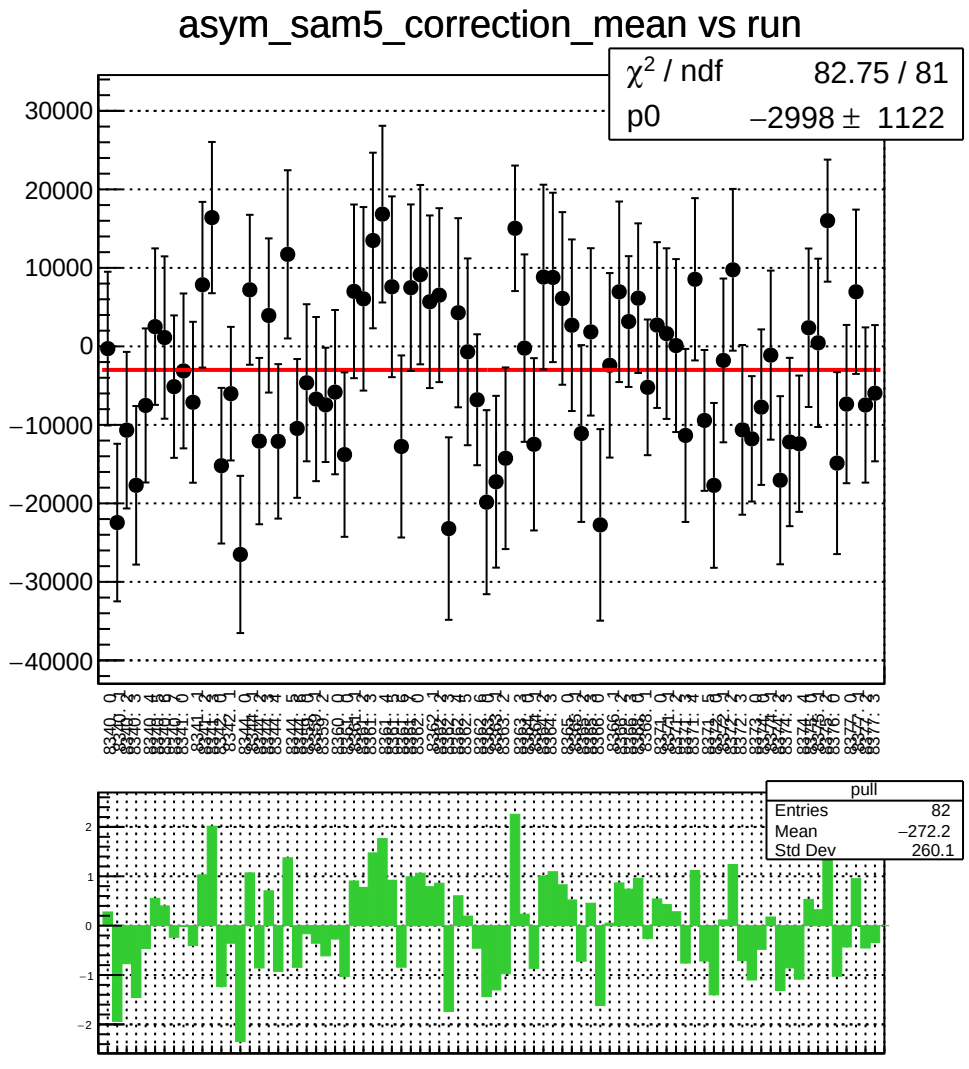

pull1D
Entries 82
Mean −0.0367
Std Dev 1.115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

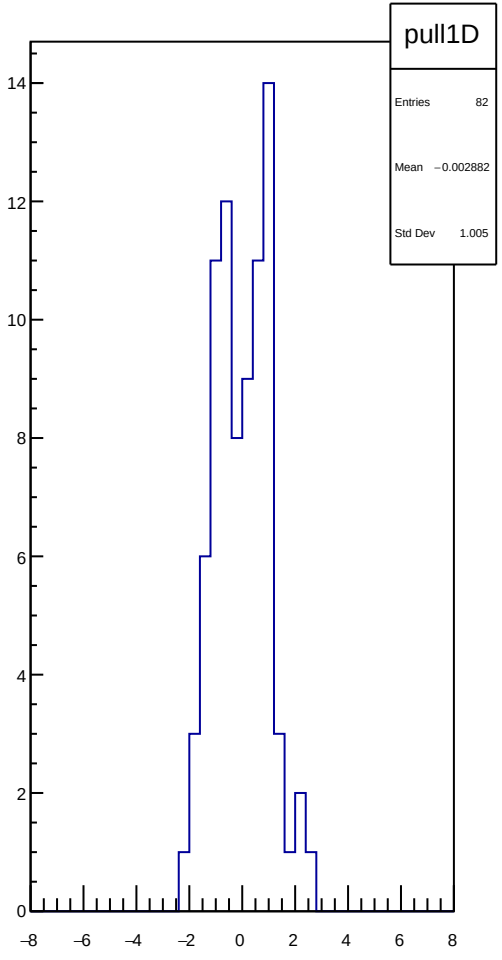

asym_sam4_correction_rms vs run
χ² / ndf 1527 / 81
p0 4543 ± 3.557
4900
4800
4700
4600
4500
4400
4300
4200

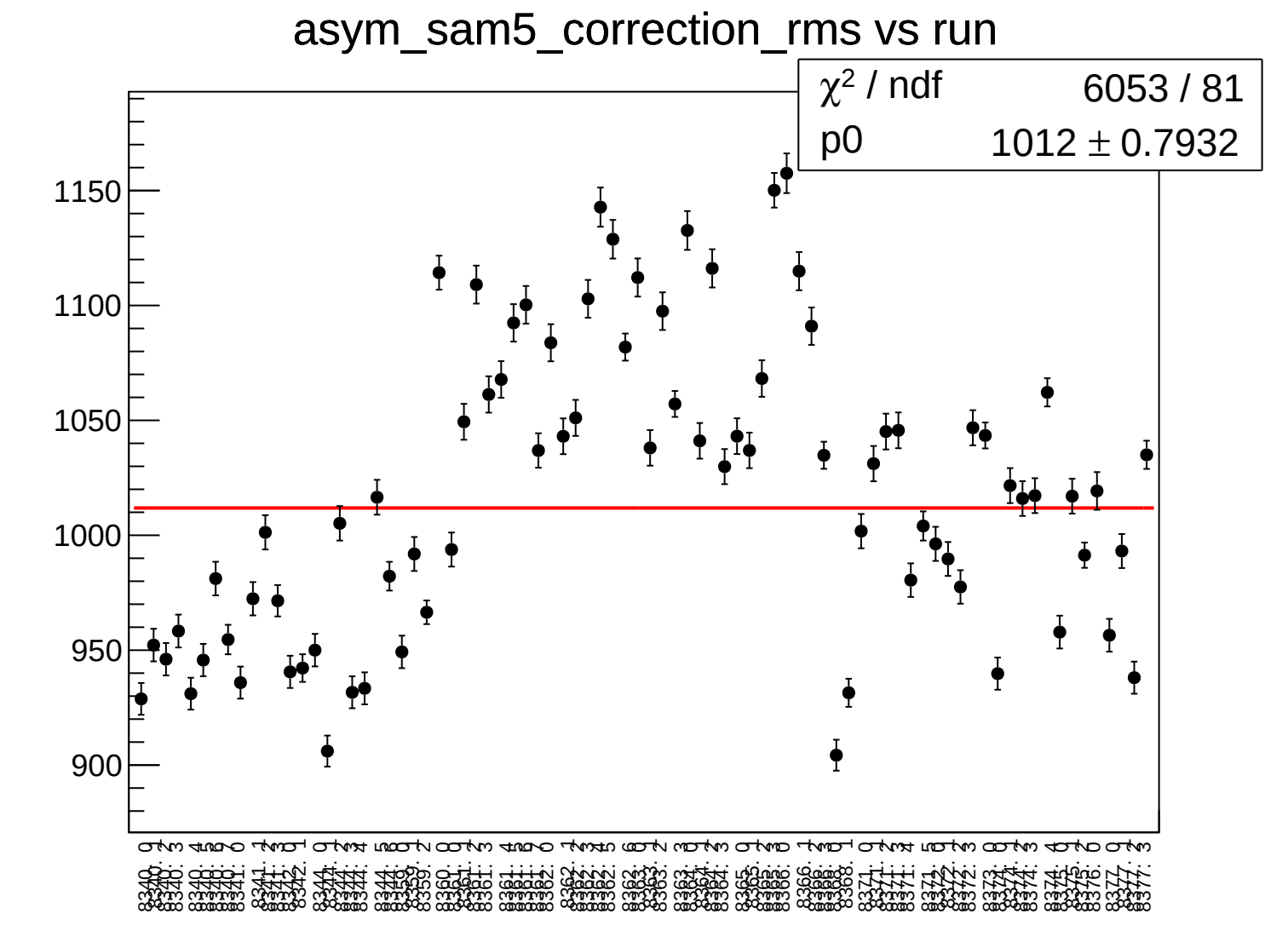

reg_asym_sam5_mean vs run
χ² / ndf 92.87 / 81
p0 −40.82 ± 146.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean 91.62
Std Dev 60.93
3
2
1
0
−1
−2

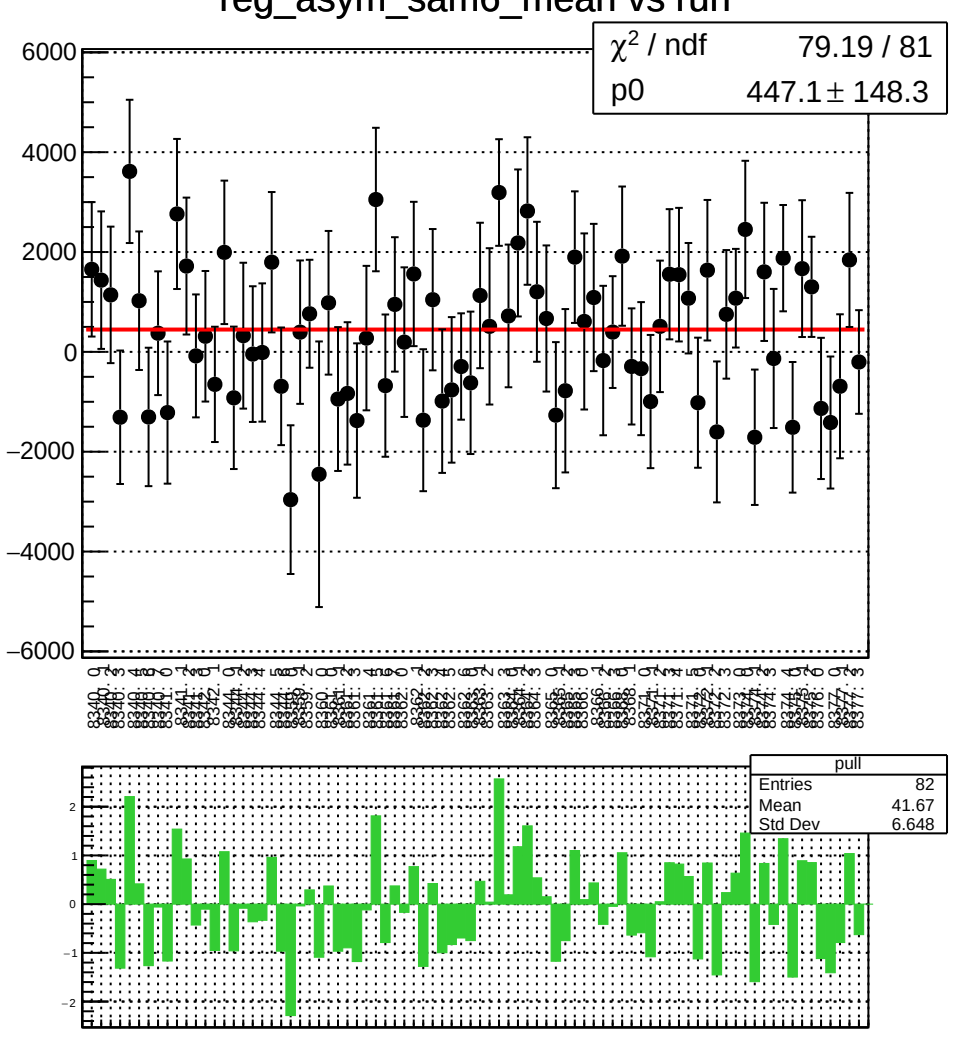

pull1D
Entries 82
Mean −0.02163
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

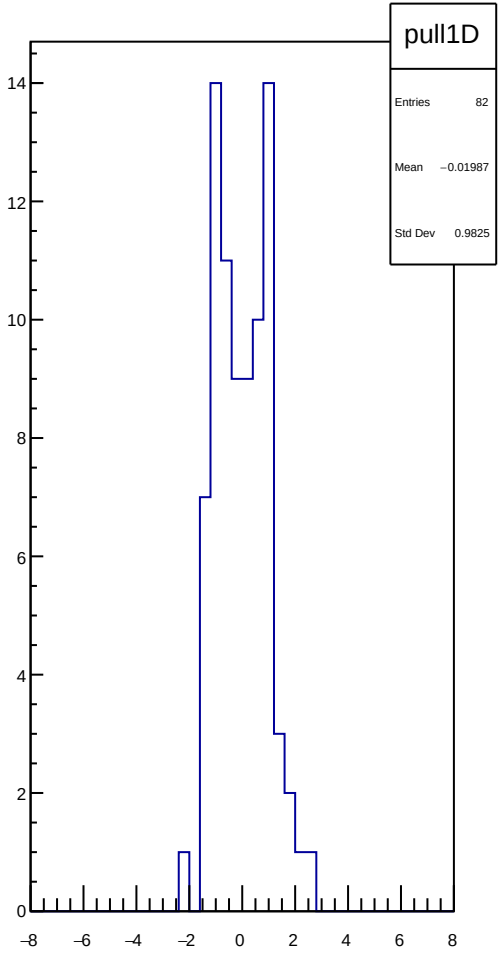

reg_asym_sam5_rms vs run
χ² / ndf 5916 / 81
p0 132.4 ± 0.1038
190
180
170
160
150
140
130
120

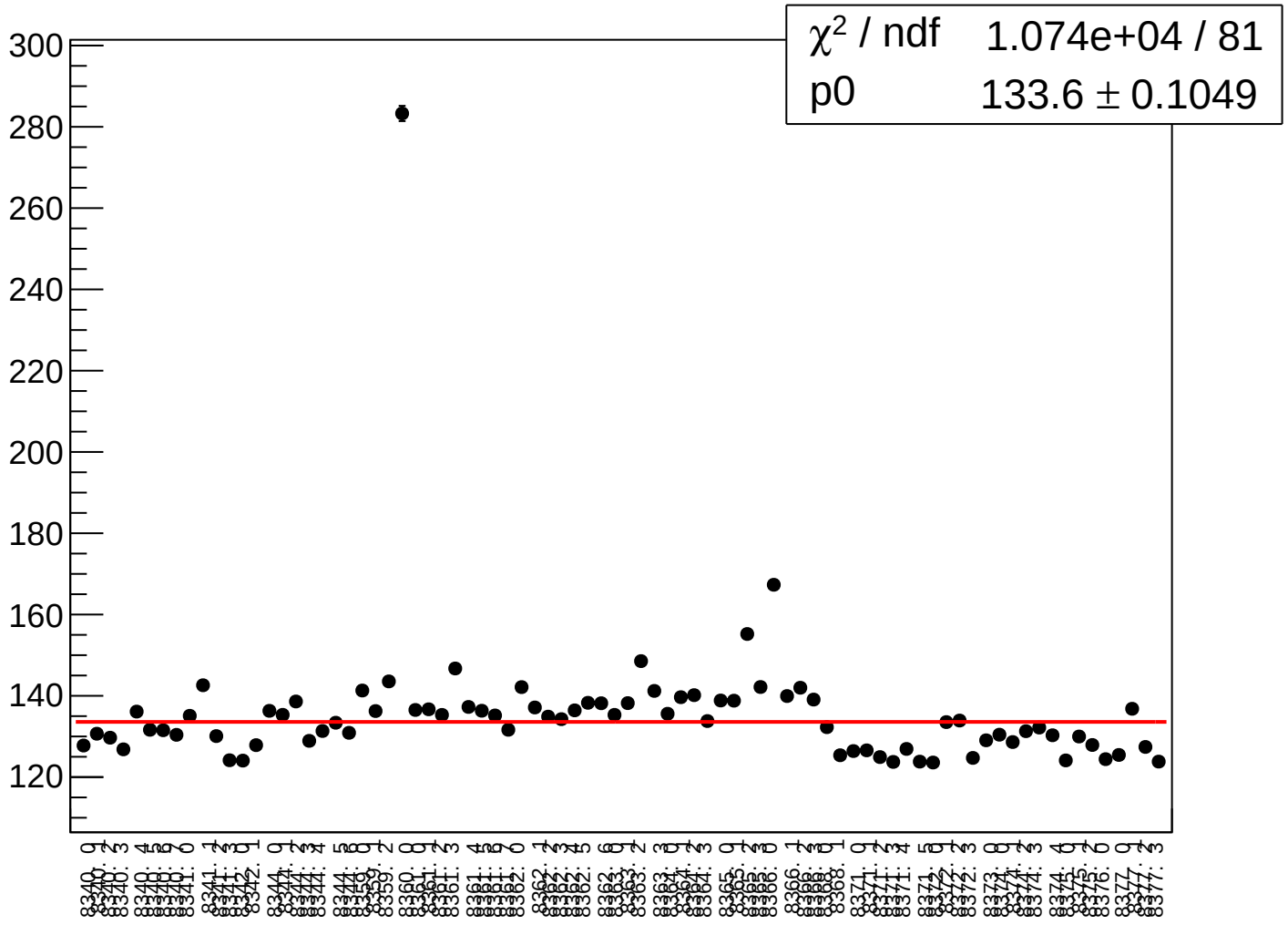

asym_sam5_correction_mean vs run
χ² / ndf 82.75 / 81
p0 −2998 ± 1122
pull
Entries 82
Mean −272.2
Std Dev 260.1

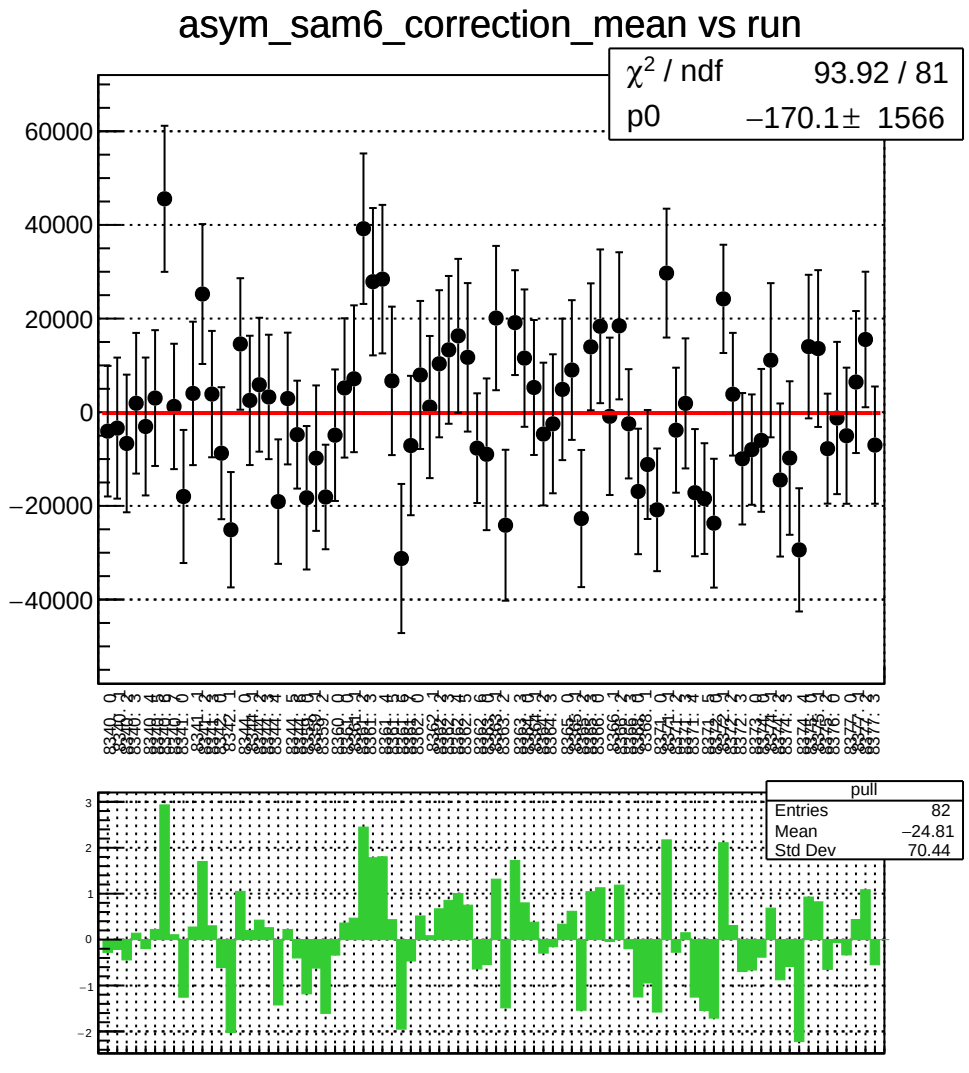

pull1D
Entries 82
Mean −0.002882
Std Dev 1.005

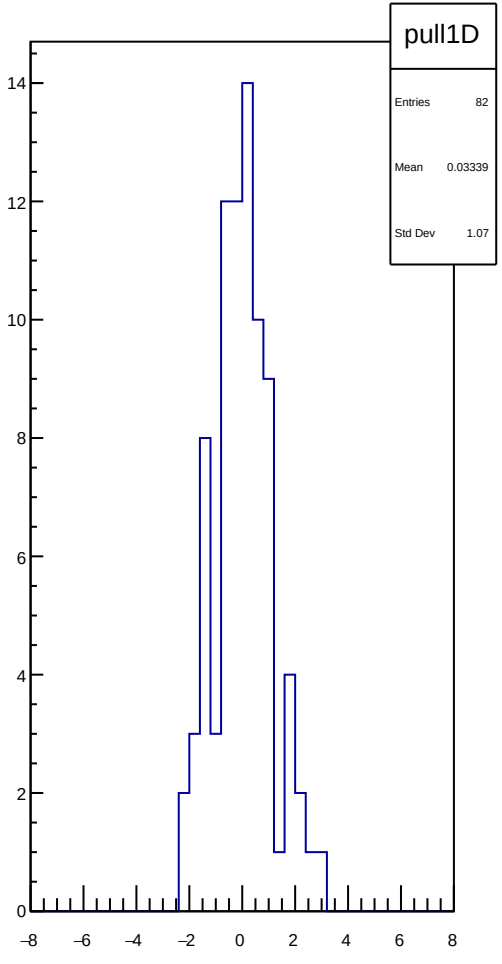

asym_sam5_correction_rms vs run
χ² / ndf 6053 / 81
p0 1012 ± 0.7932
1150
1100
1050
1000
950
900

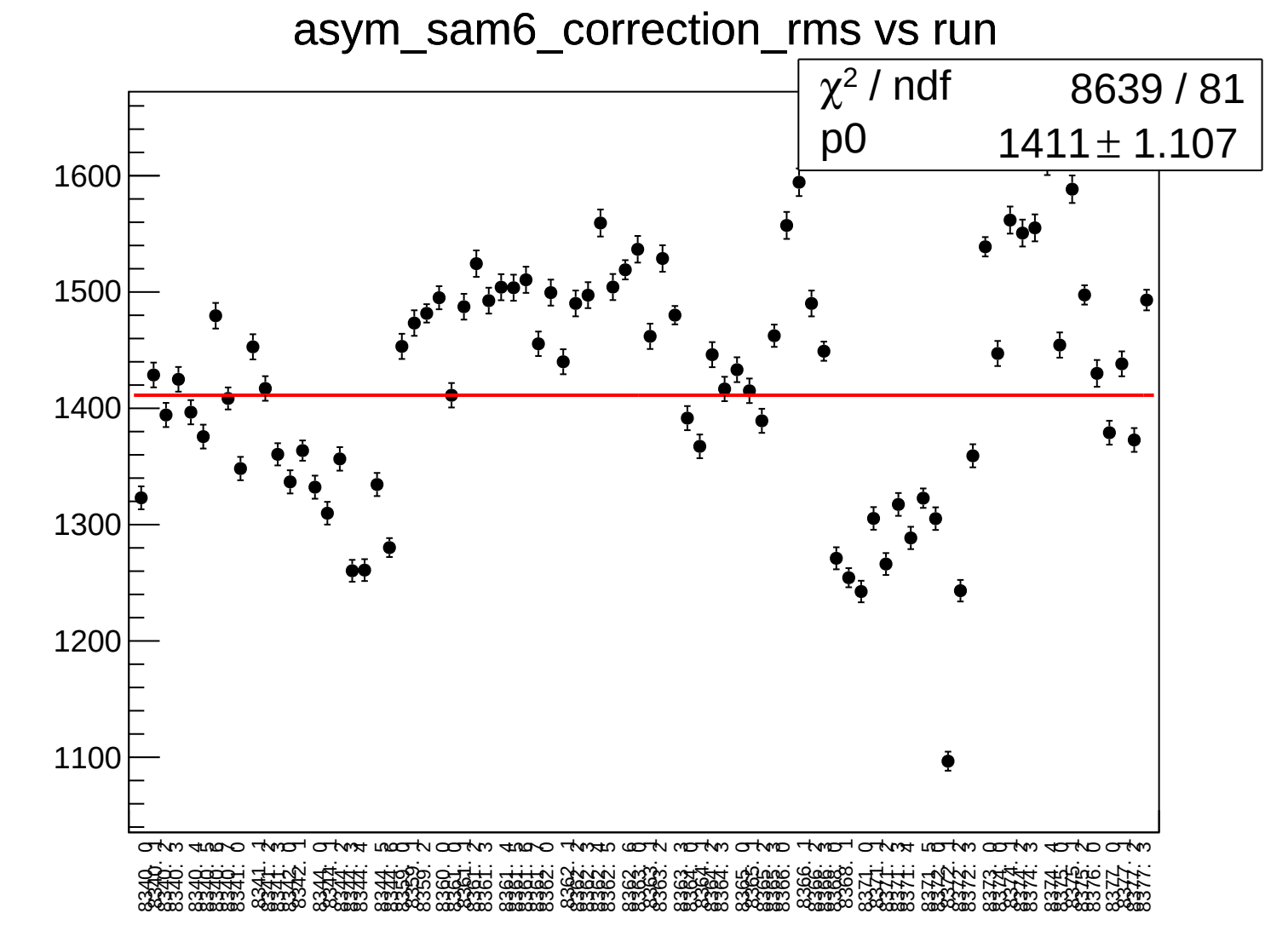

reg_asym_sam6_mean vs run
χ² / ndf 79.19 / 81
p0 447.1 ± 148.3
pull
Entries 82
Mean 41.67
Std Dev 6.648

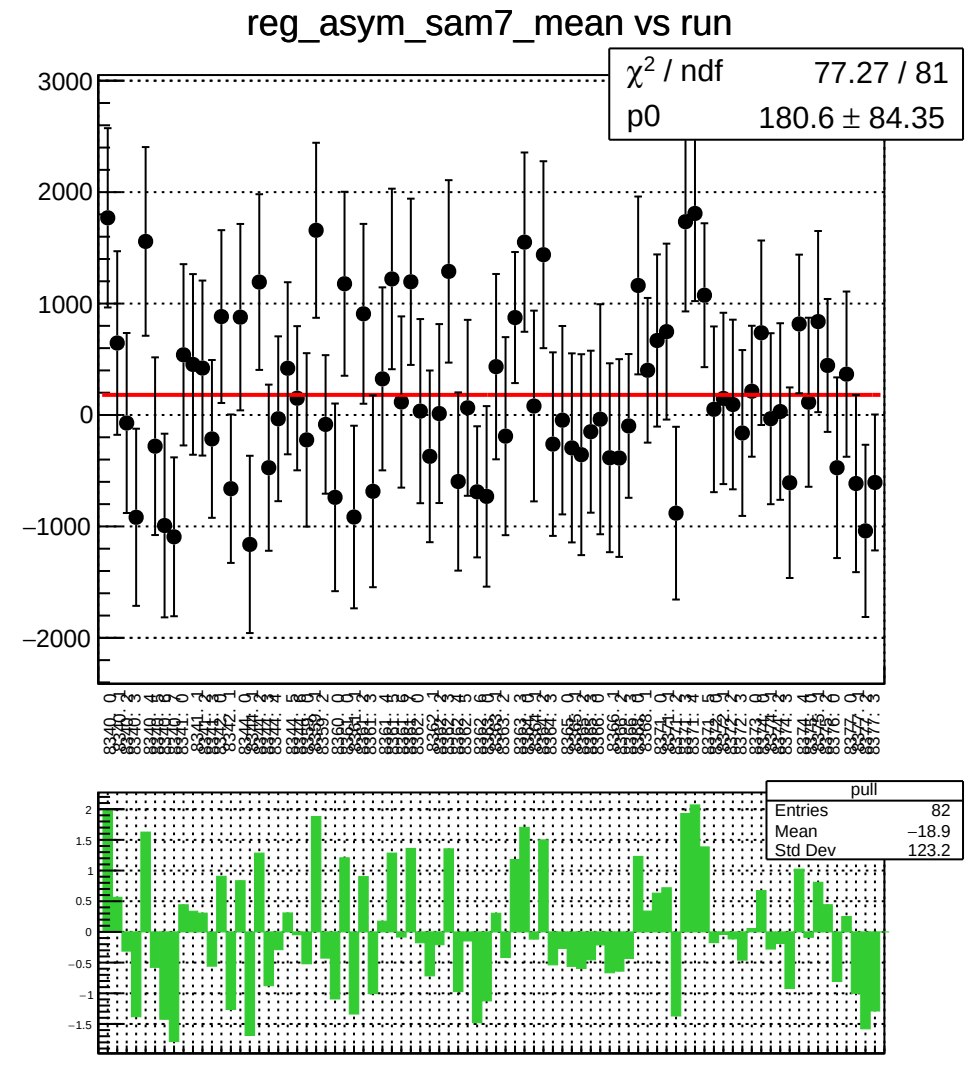

pull1D
Entries 82
Mean −0.01987
Std Dev 0.9825

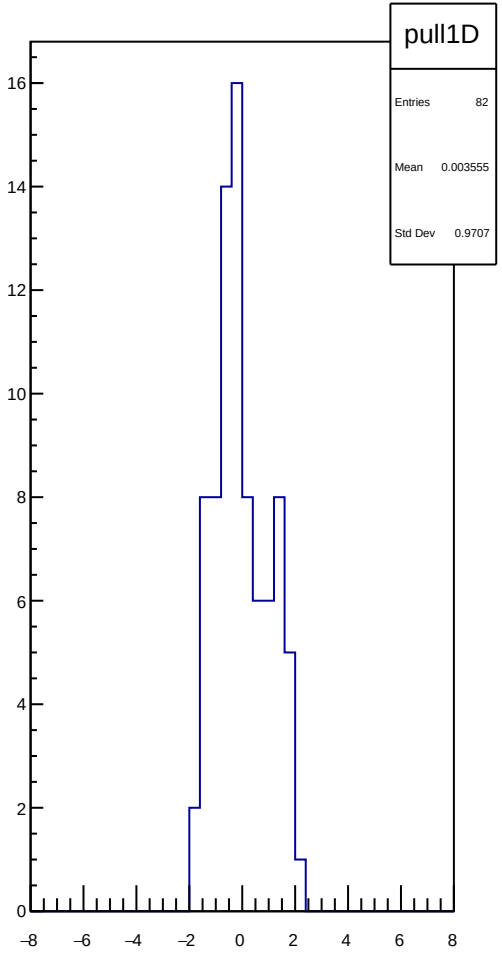

reg_asym_sam6_rms vs run
χ² / ndf 1.074e+04 / 81
p0 133.6 ± 0.1049
300
280
260
240
220
200
180
160
140
120

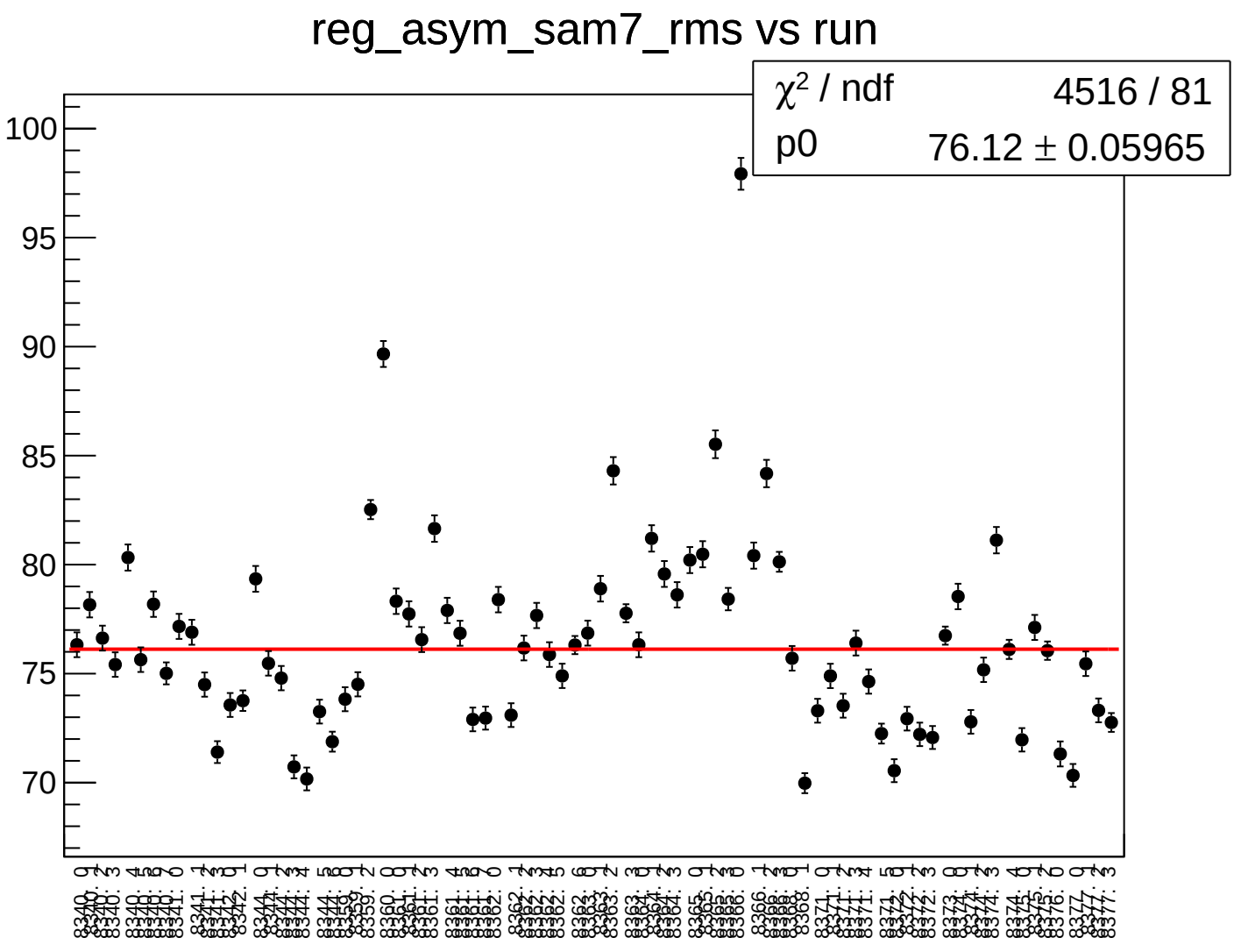

asym_sam6_correction_mean vs run
χ² / ndf 93.92 / 81
p0 −170.1± 1566
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −24.81
Std Dev 70.44
3
2
1
0
−1
−2

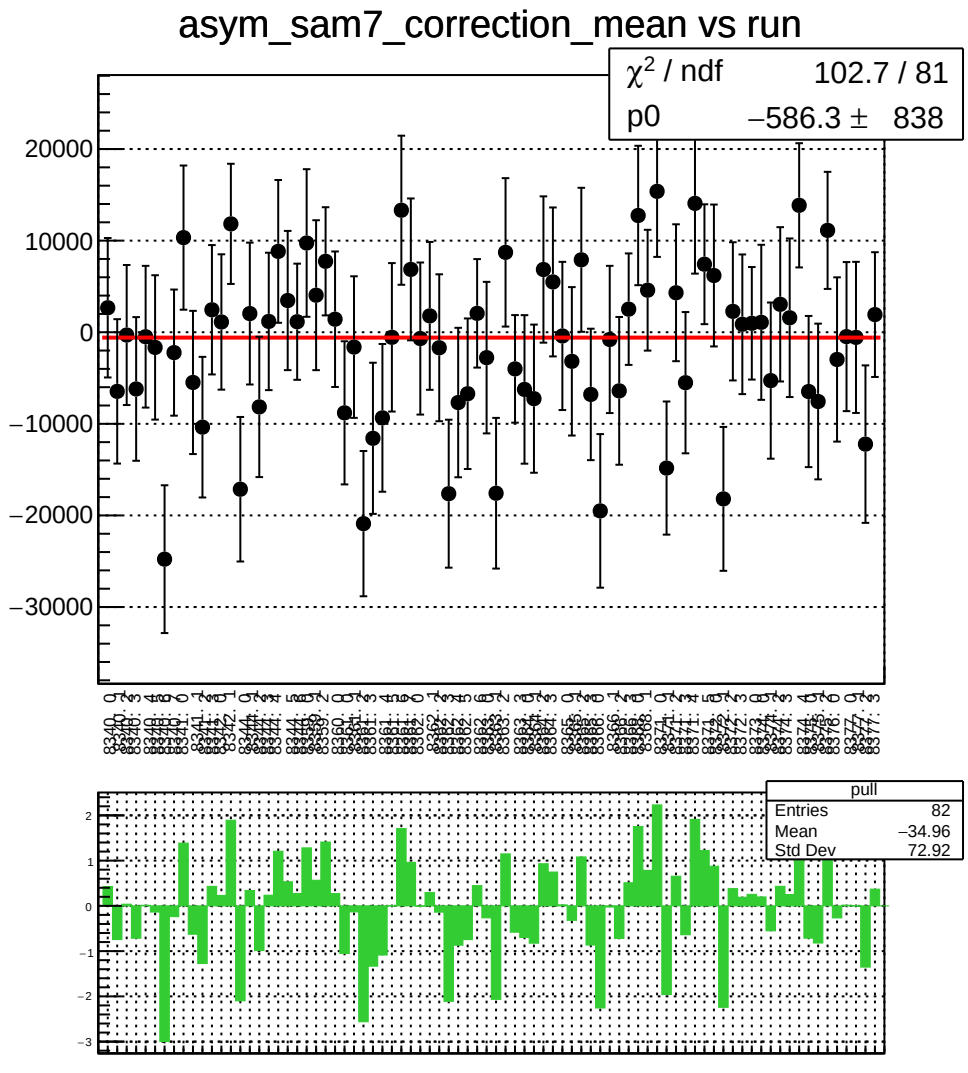

pull1D
Entries 82
Mean 0.03339
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

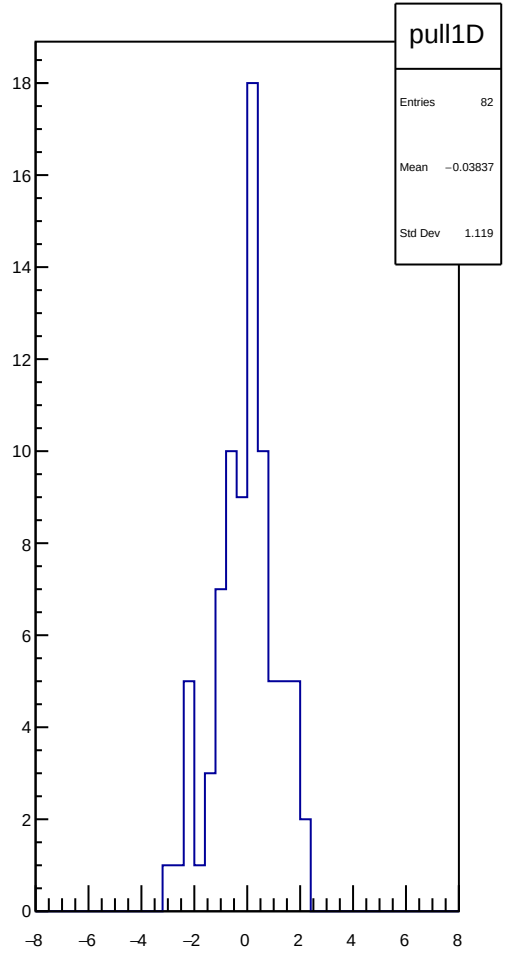

asym_sam6_correction_rms vs run
χ² / ndf 8639 / 81
p0 1411 ± 1.107
1600
1500
1400
1300
1200
1100

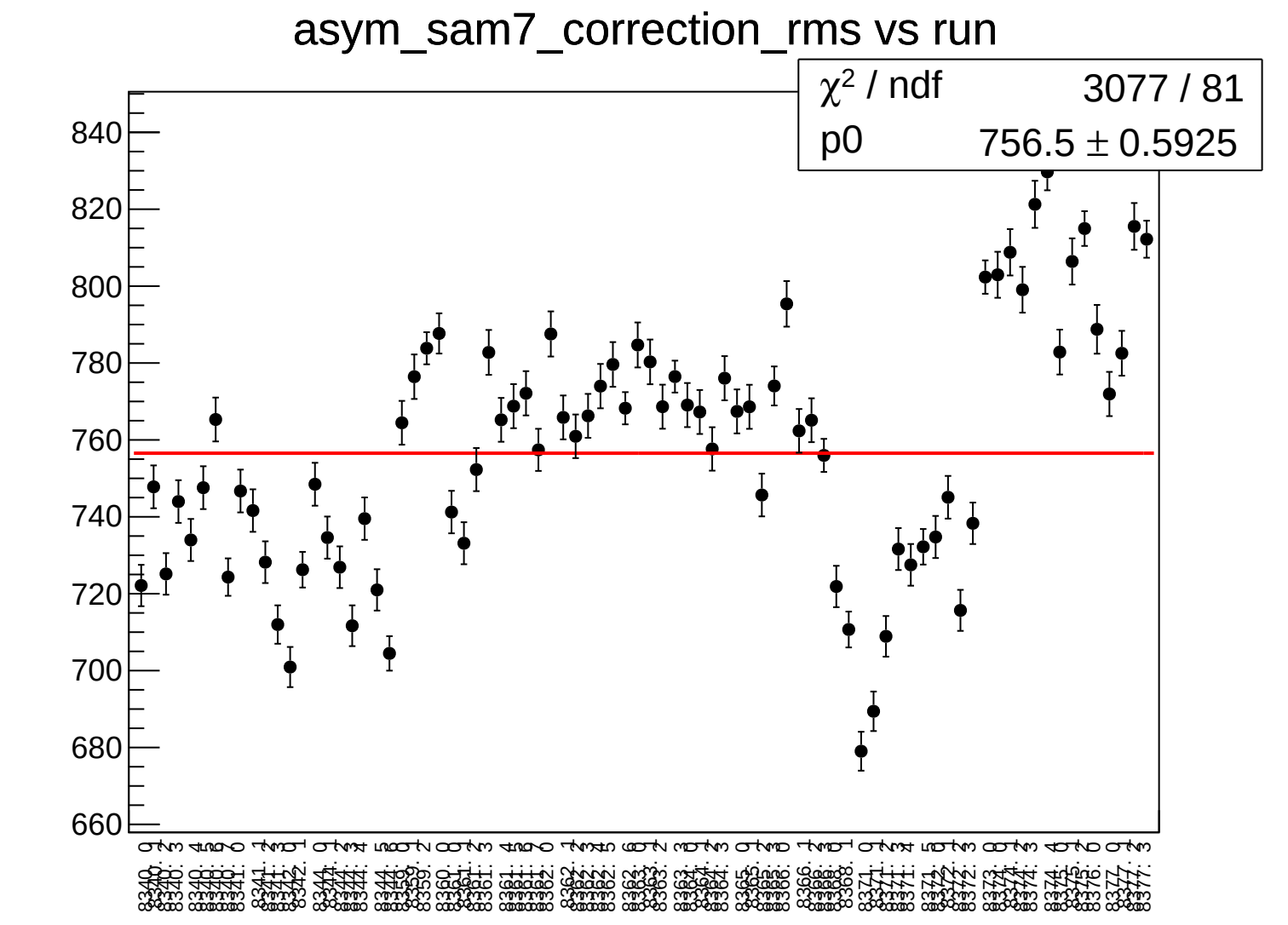

reg_asym_sam7_mean vs run
χ² / ndf 77.27 / 81
p0 180.6 ± 84.35
pull
Entries 82
Mean −18.9
Std Dev 123.2

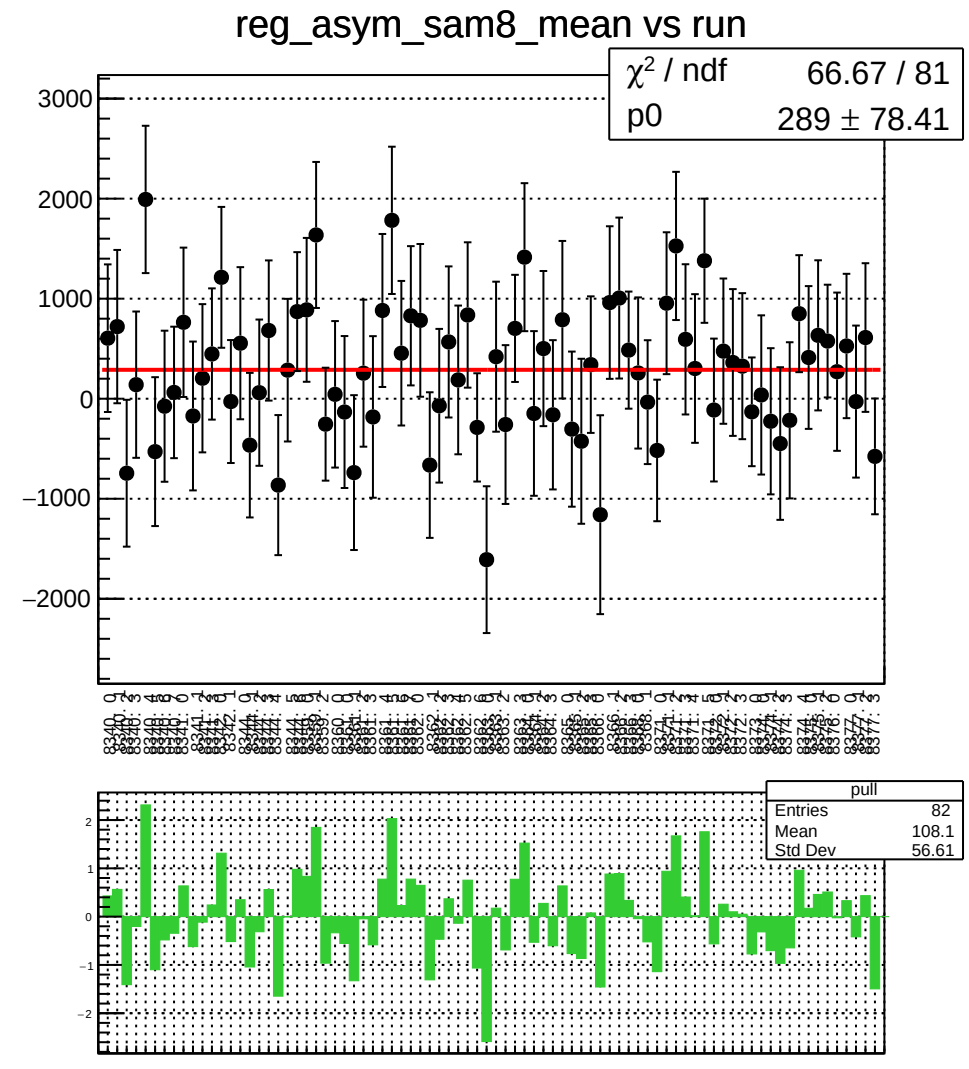

pull1D
Entries 82
Mean 0.003555
Std Dev 0.9707

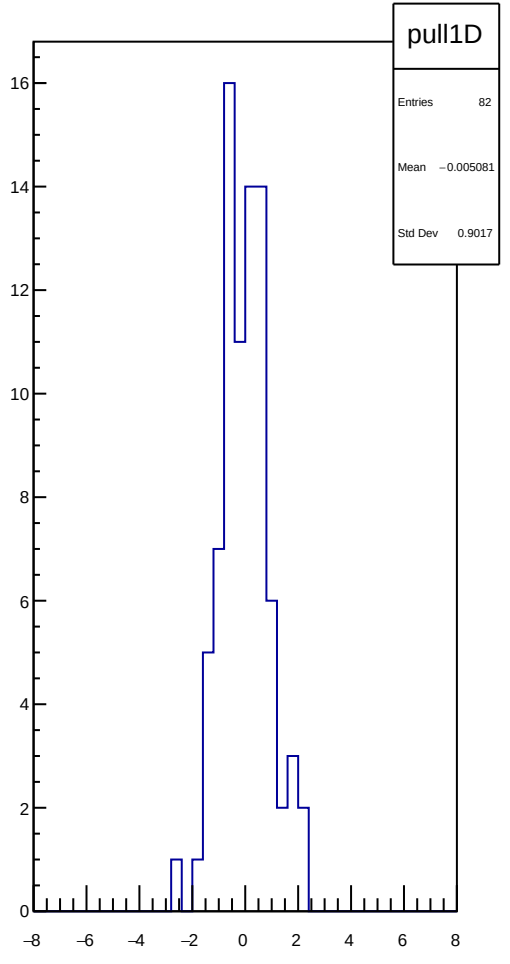

reg_asym_sam7_rms vs run
χ² / ndf 4516 / 81
p0 76.12 ± 0.05965
100
95
90
85
80
75
70


asym_sam7_correction_mean vs run
χ² / ndf 102.7 / 81
p0 −586.3 ± 838
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −34.96
Std Dev 72.92
2
1
0
−1
−2
−3

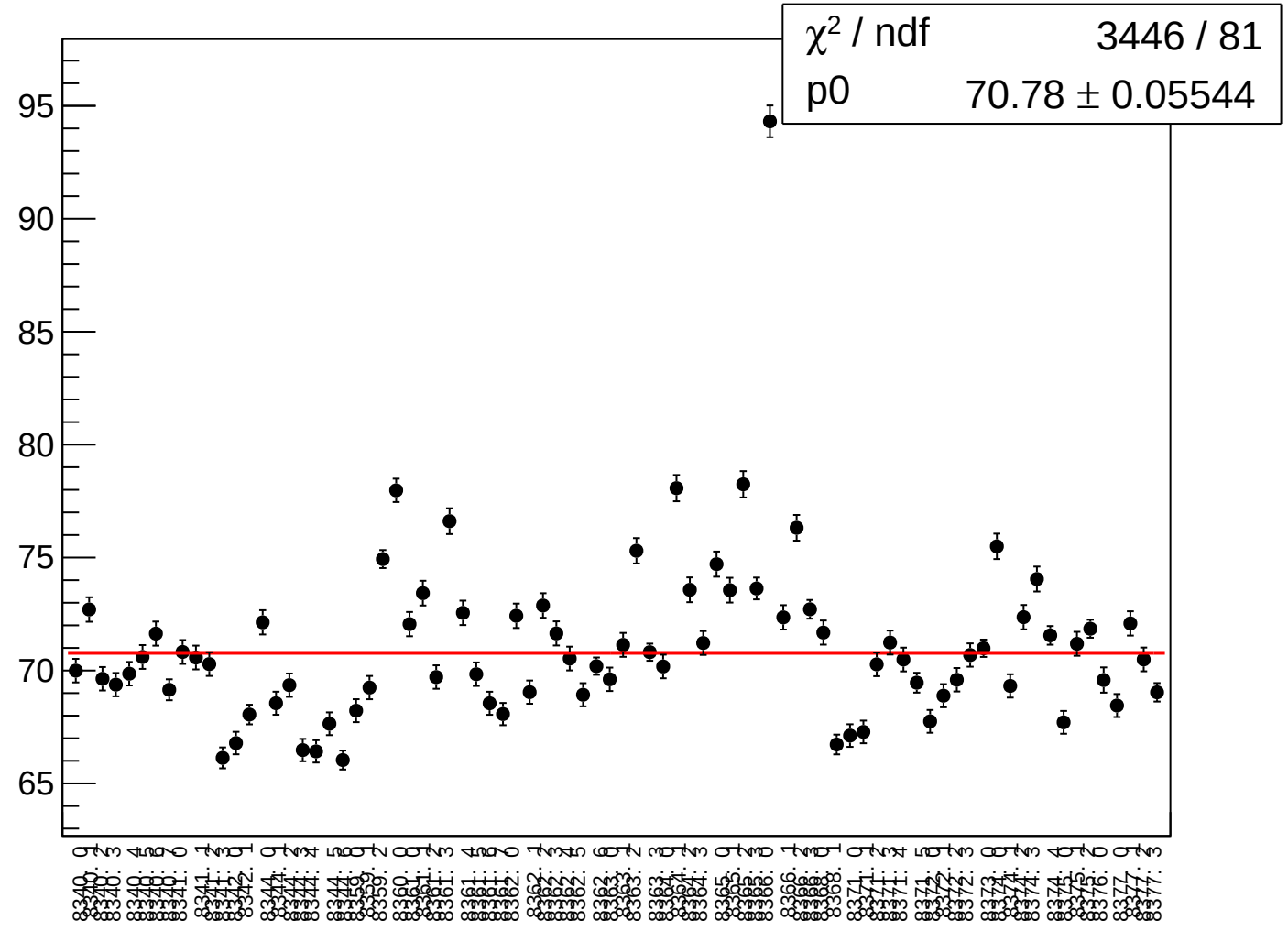

pull1D
Entries 82
Mean −0.03837
Std Dev 1.119
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

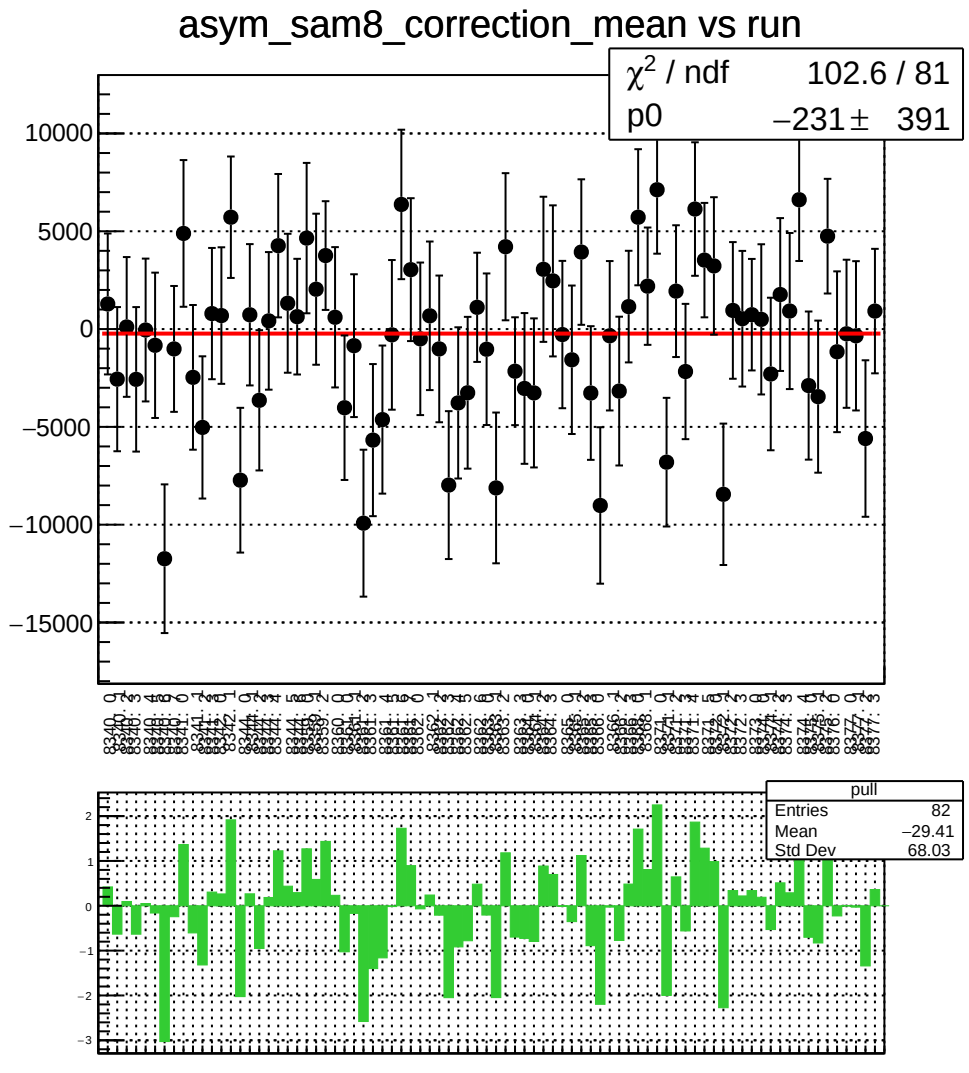

asym_sam7_correction_rms vs run
χ² / ndf 3077 / 81
p0 756.5 ± 0.5925
840
820
800
780
760
740
720
700
680
660

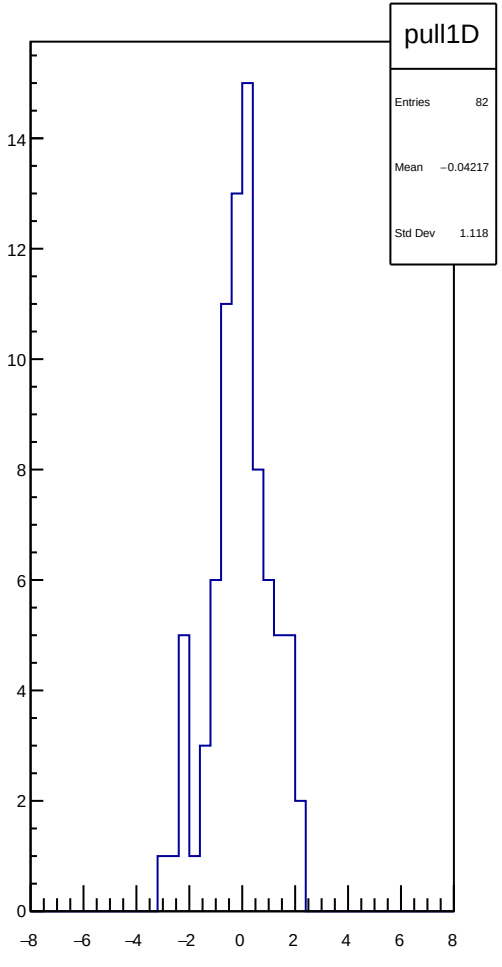

reg_asym_sam8_mean vs run
χ² / ndf 66.67 / 81
p0 289 ± 78.41
3000
2000
1000
0
−1000
−2000
pull
Entries 82
Mean 108.1
Std Dev 56.61
2
1
0
−1
−2

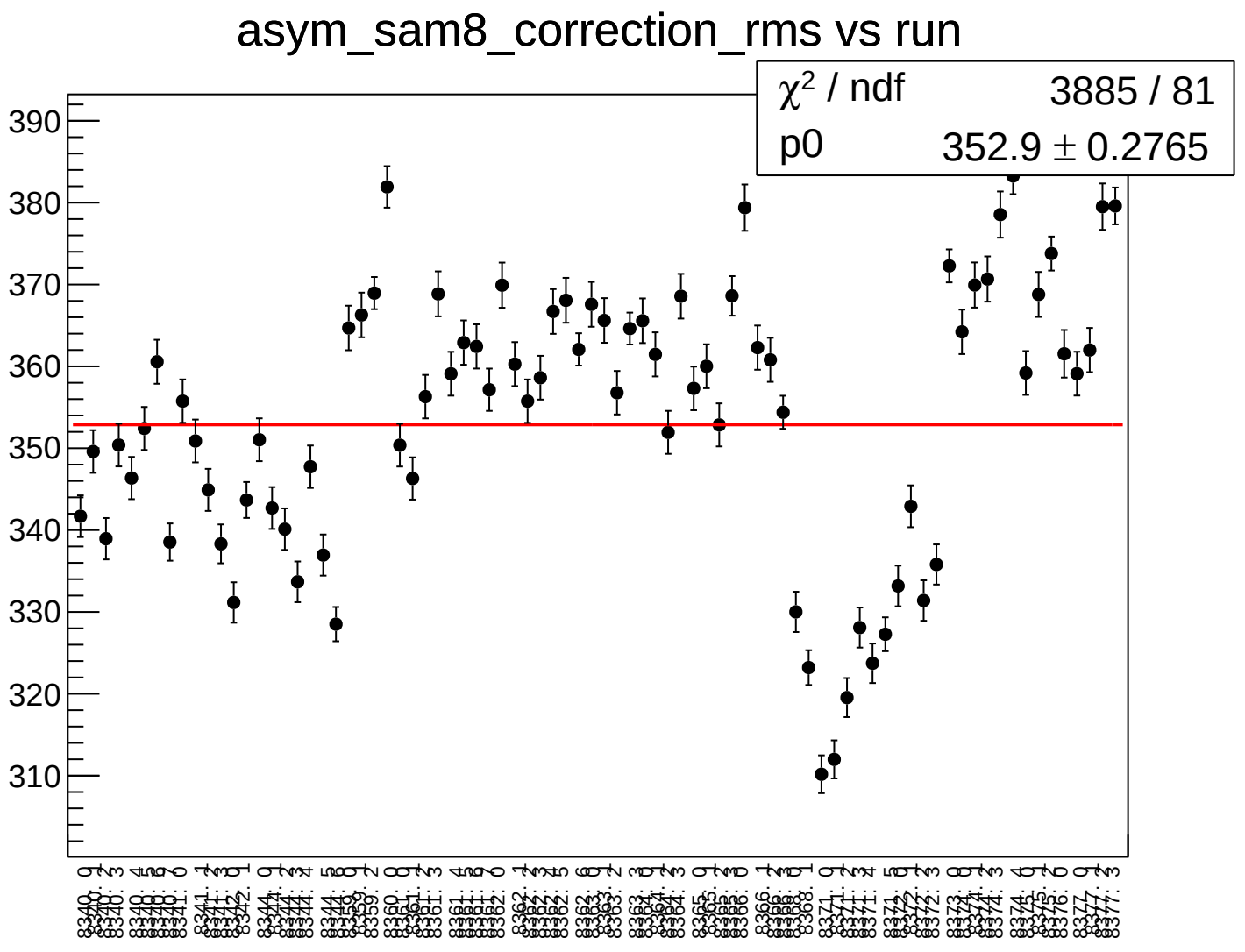

pull1D
Entries 82
Mean −0.005081
Std Dev 0.9017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

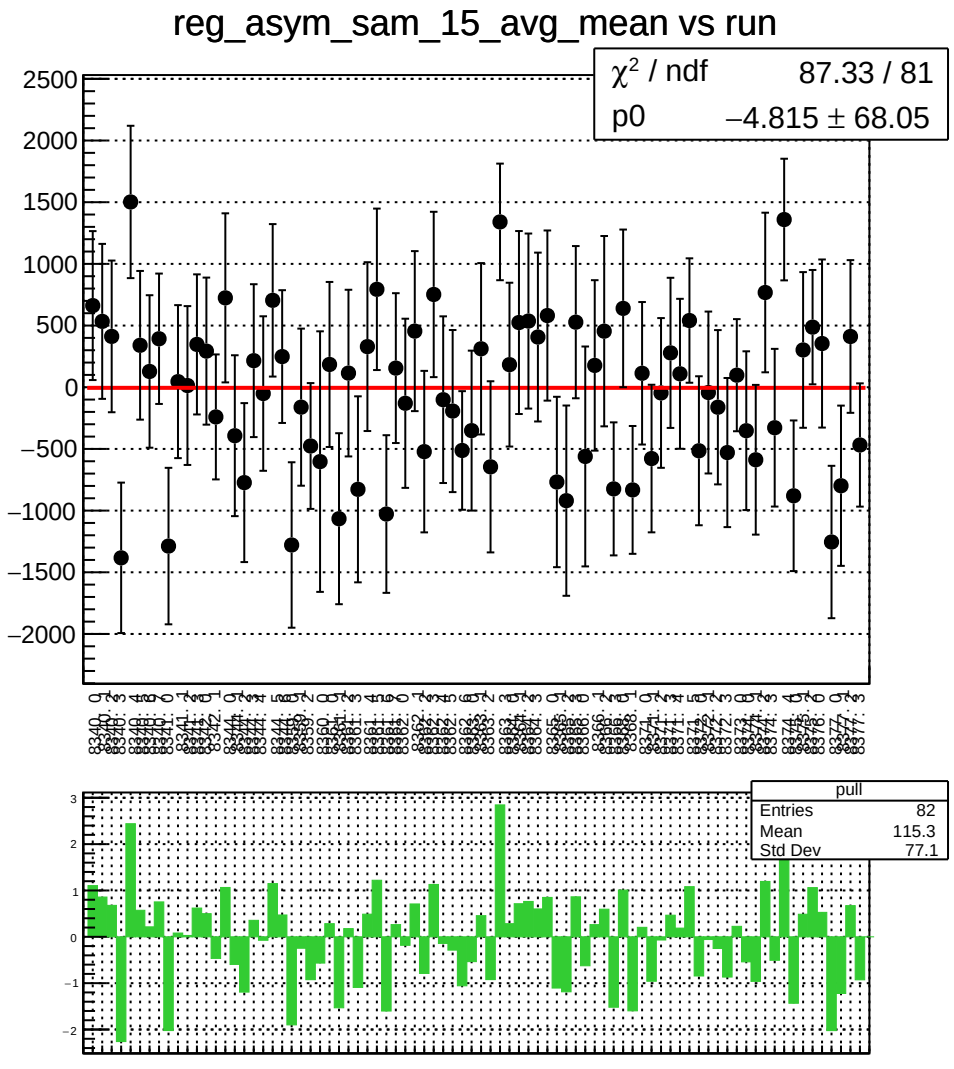
reg_asym_sam8_rms vs run

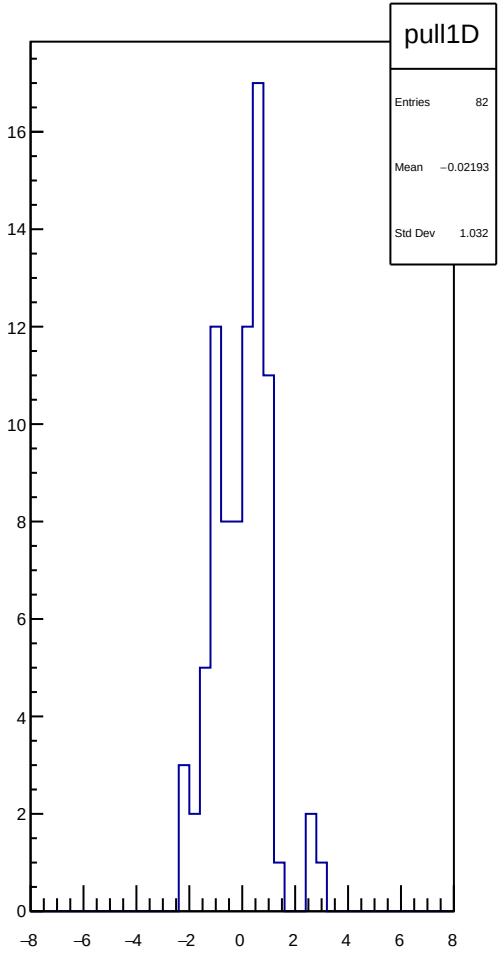


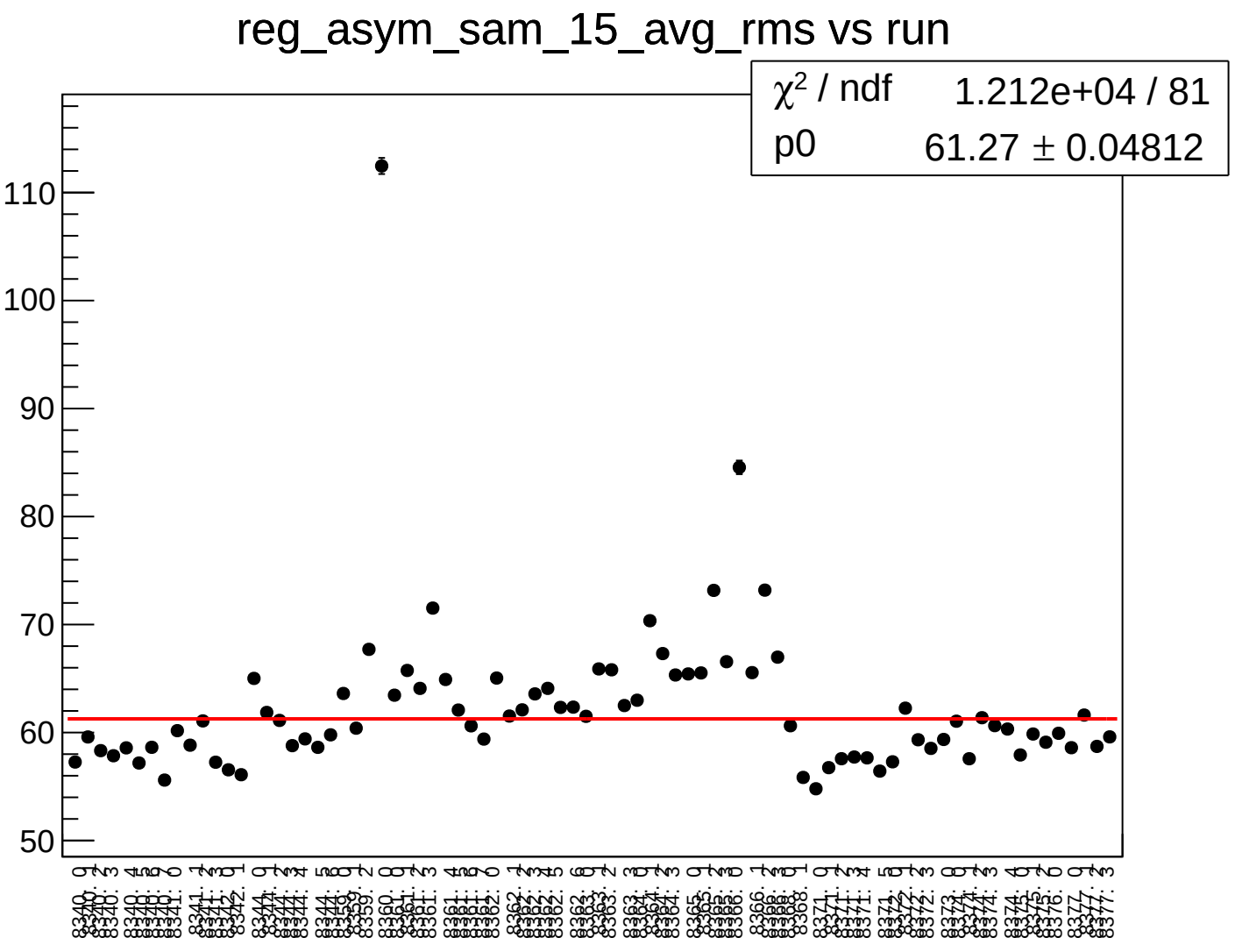

asym_sam8_correction_mean vs run
χ² / ndf 102.6 / 81
p0 −231 ± 391
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −29.41
Std Dev 68.03
2
1
0
−1
−2
−3

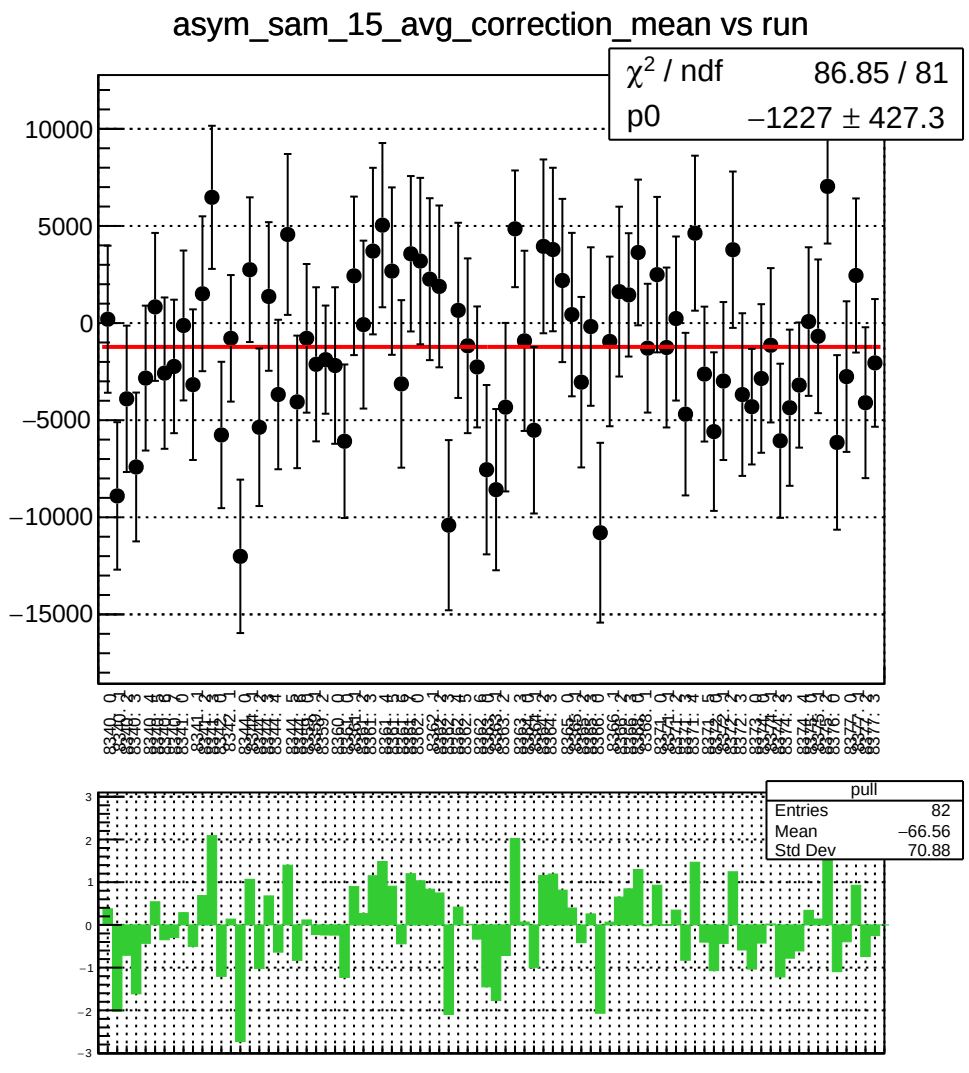

pull1D
Entries 82
Mean −0.04217
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

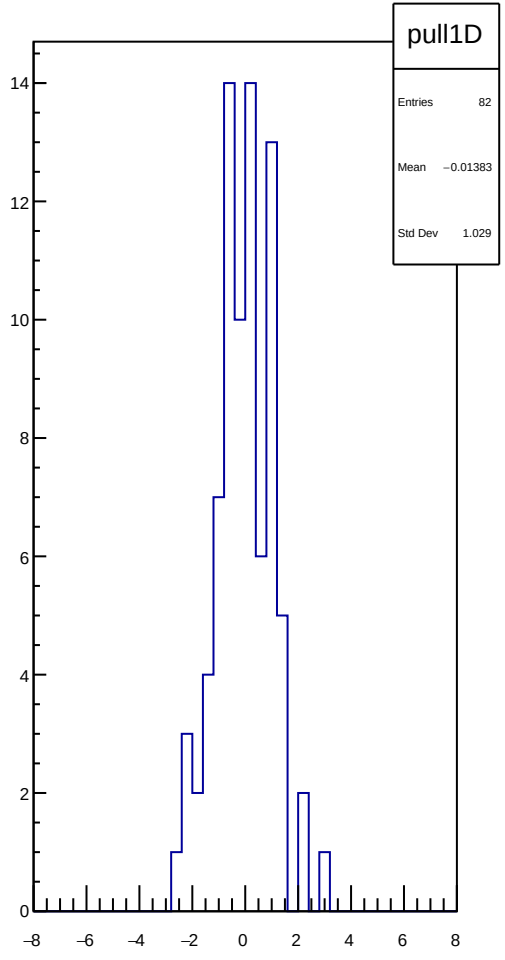

asym_sam8_correction_rms vs run
χ² / ndf 3885 / 81
p0 352.9 ± 0.2765
390
380
370
360
350
340
330
320
310

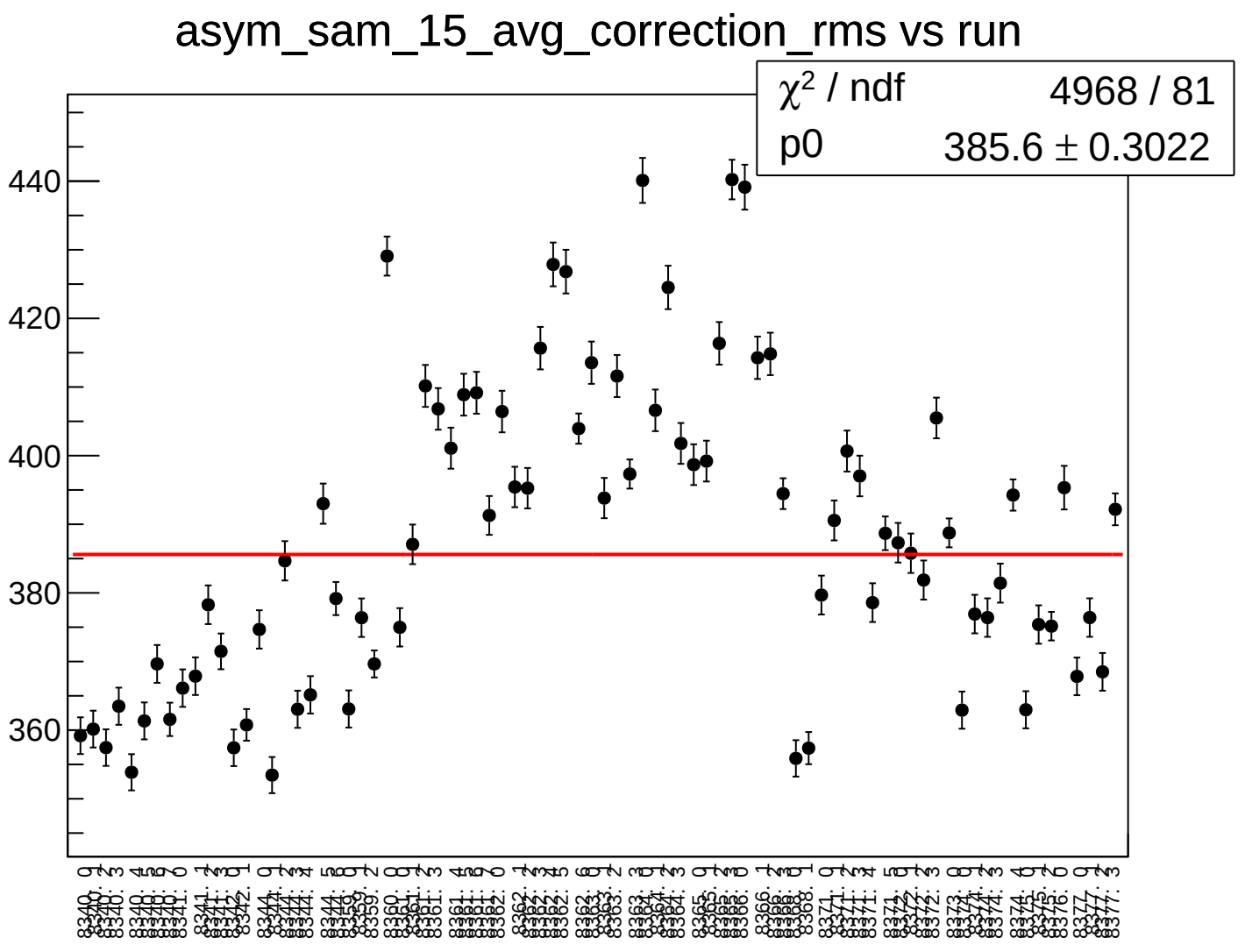

reg_asym_sam_15_avg_mean vs run
χ² / ndf 87.33 / 81
p0 −4.815 ± 68.05
pull
Entries 82
Mean 115.3
Std Dev 77.1

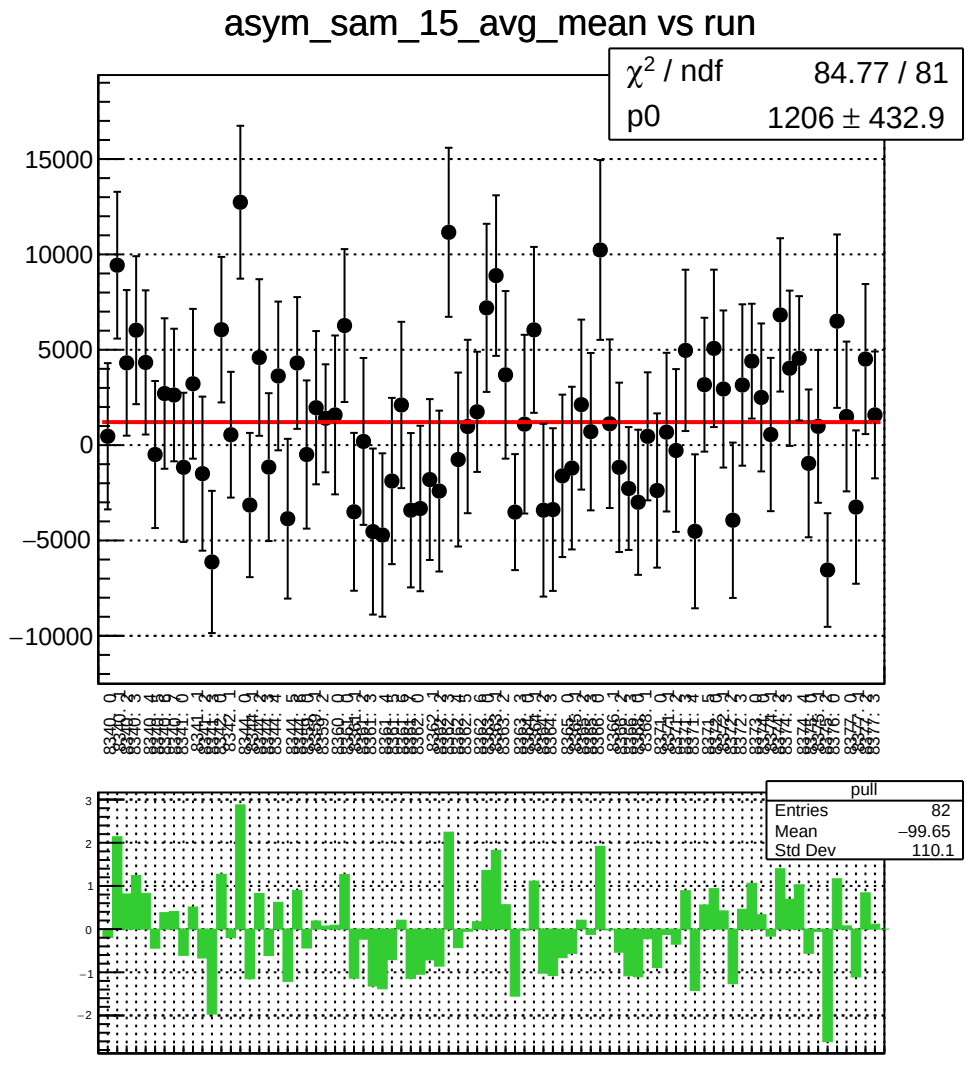

pull1D
Entries 82
Mean −0.02193
Std Dev 1.032

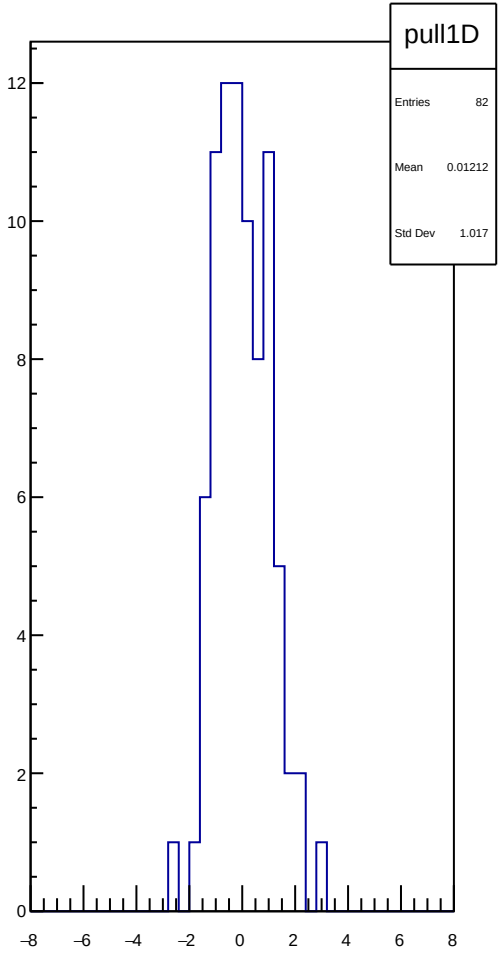

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1.212e+04 / 81
p0 61.27 ± 0.04812
110
100
90
80
70
60
50

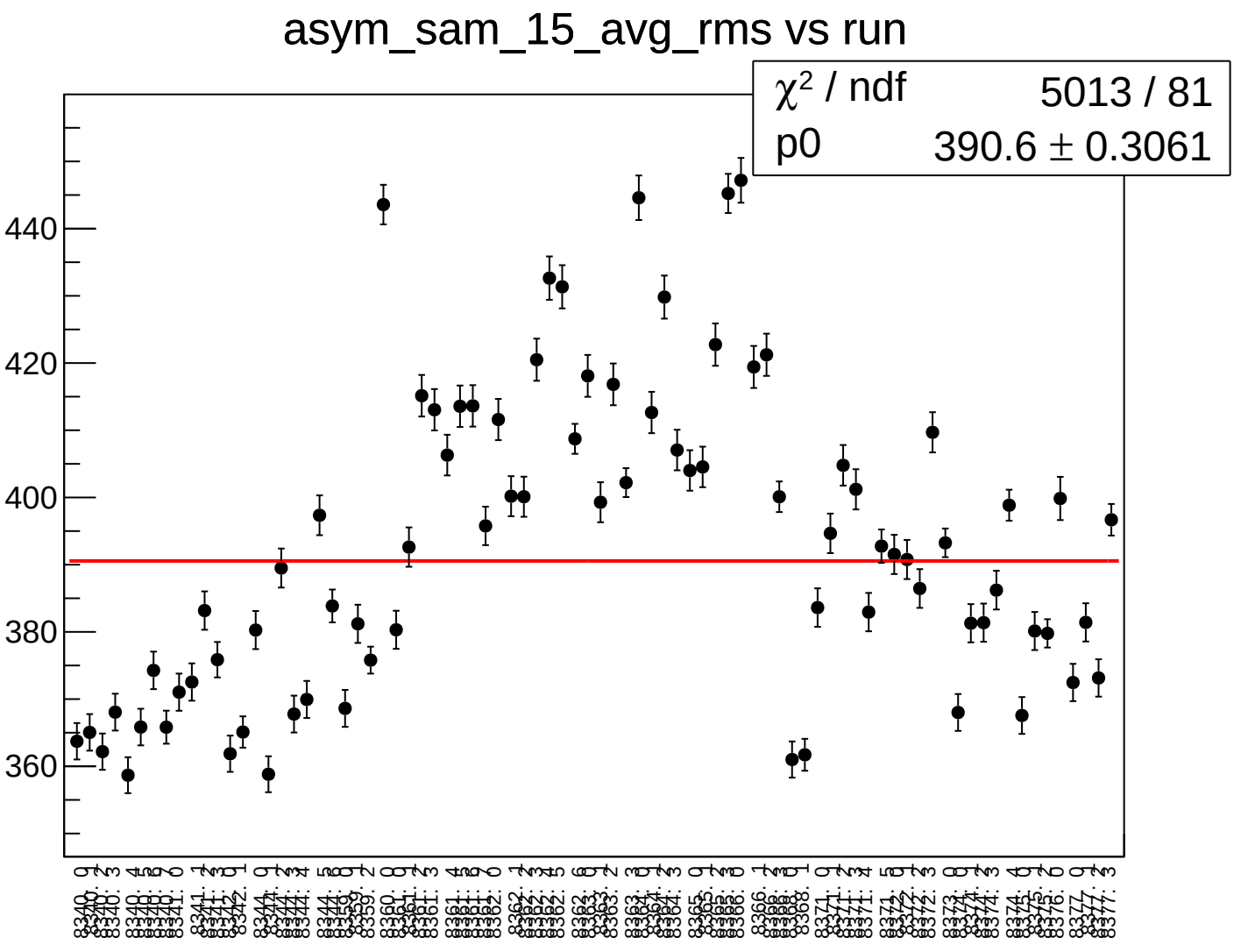

asym_sam_15_avg_correction_mean vs run
χ² / ndf 86.85 / 81
p0 −1227 ± 427.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −66.56
Std Dev 70.88
3
2
1
0
−1
−2
−3

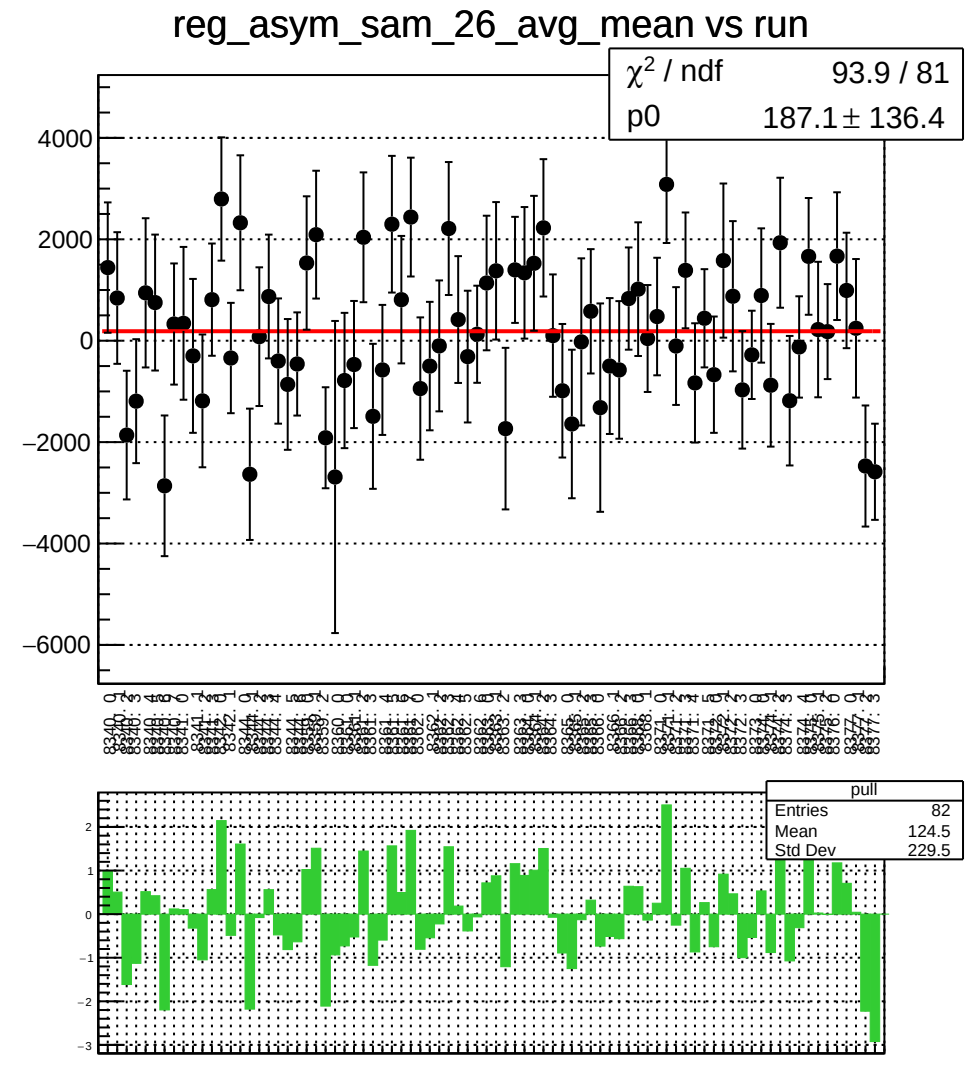

pull1D
Entries 82
Mean −0.01383
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

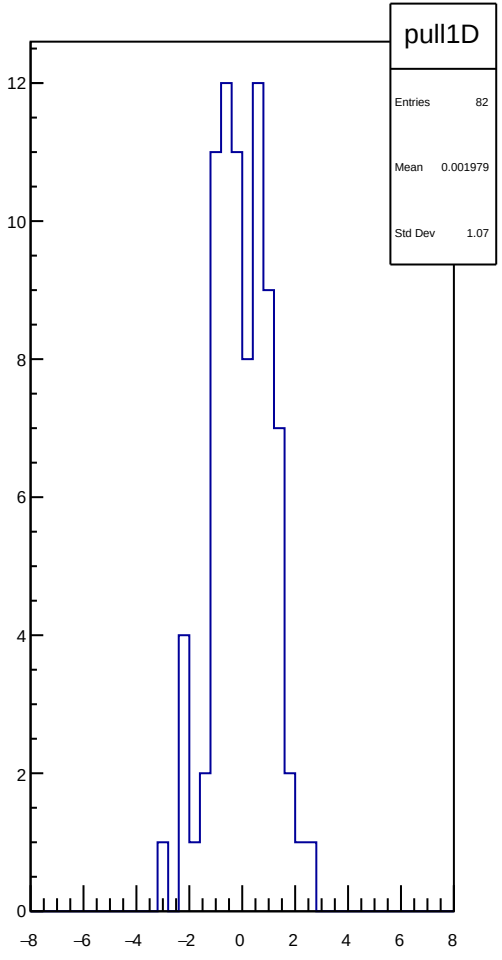

asym_sam_15_avg_correction_rms vs run
χ² / ndf 4968 / 81
p0 385.6 ± 0.3022
440
420
400
380
360

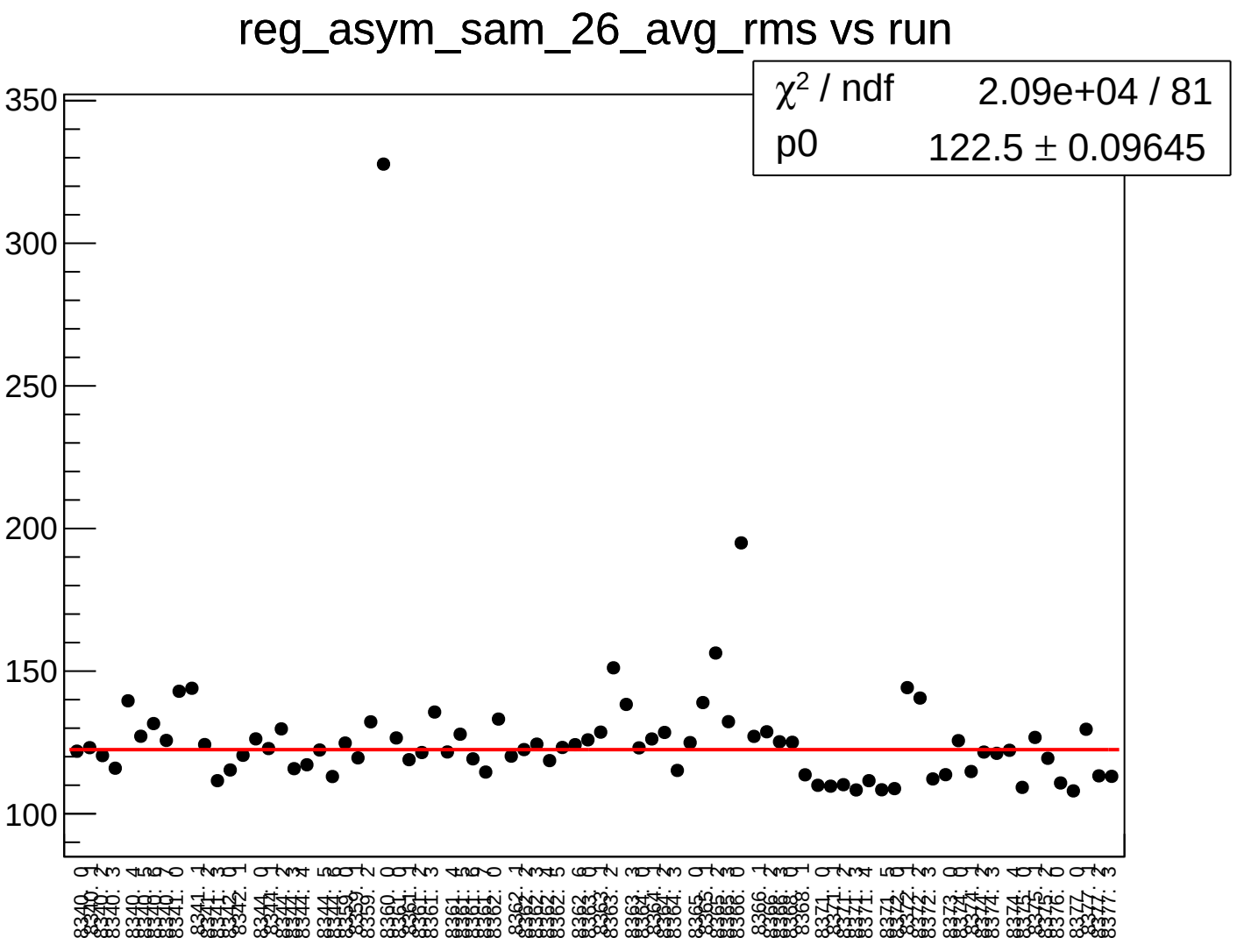

asym_sam_15_avg_mean vs run
χ² / ndf 84.77 / 81
p0 1206 ± 432.9
15000
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −99.65
Std Dev 110.1
3
2
1
0
−1
−2

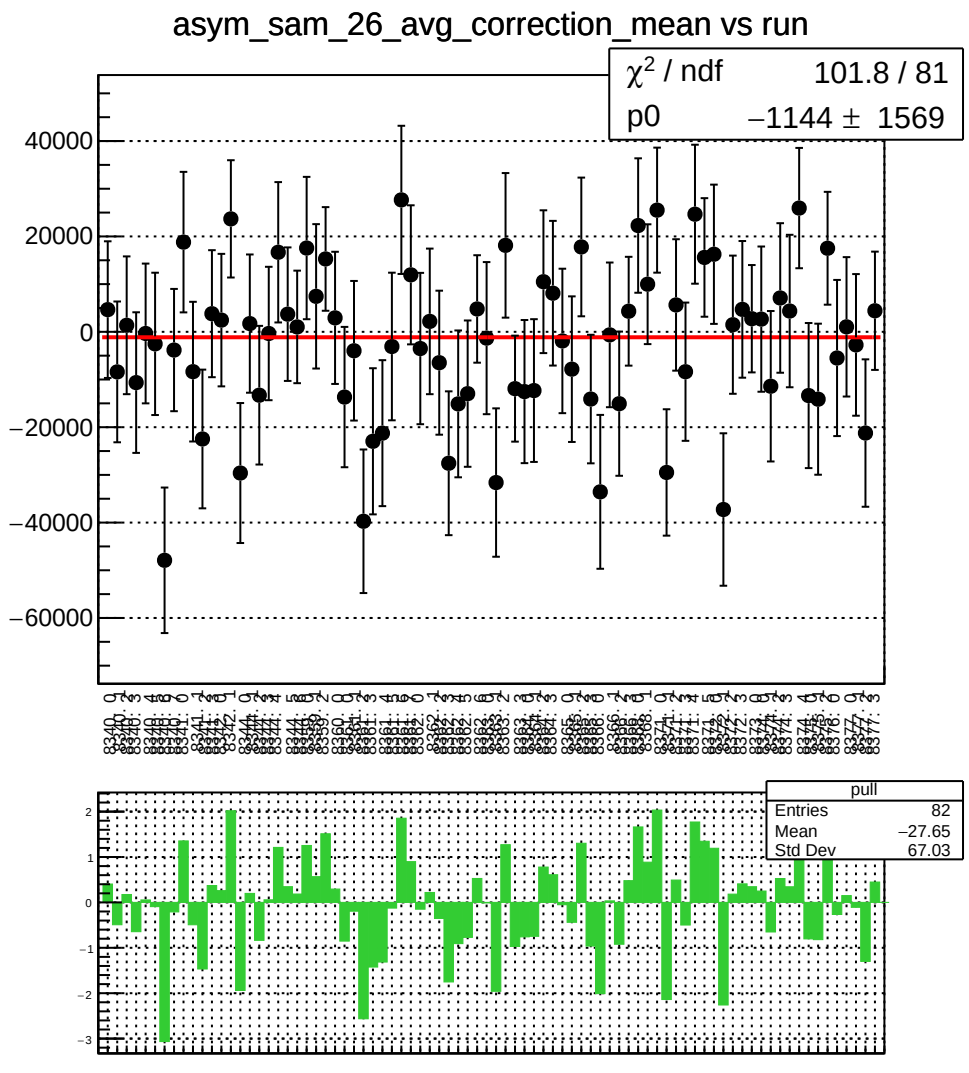

pull1D
Entries 82
Mean 0.01212
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

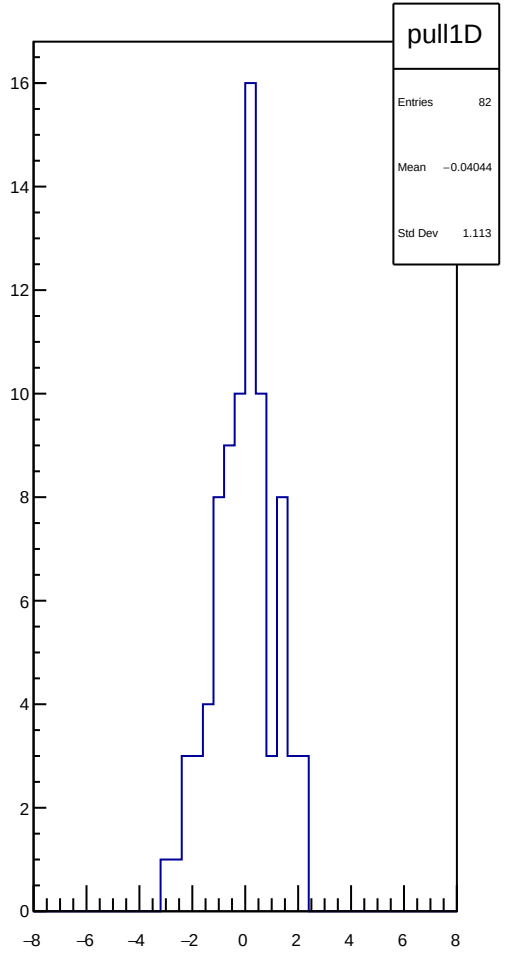

asym_sam_15_avg_rms vs run
χ² / ndf 5013 / 81
p0 390.6 ± 0.3061
440
420
400
380
360

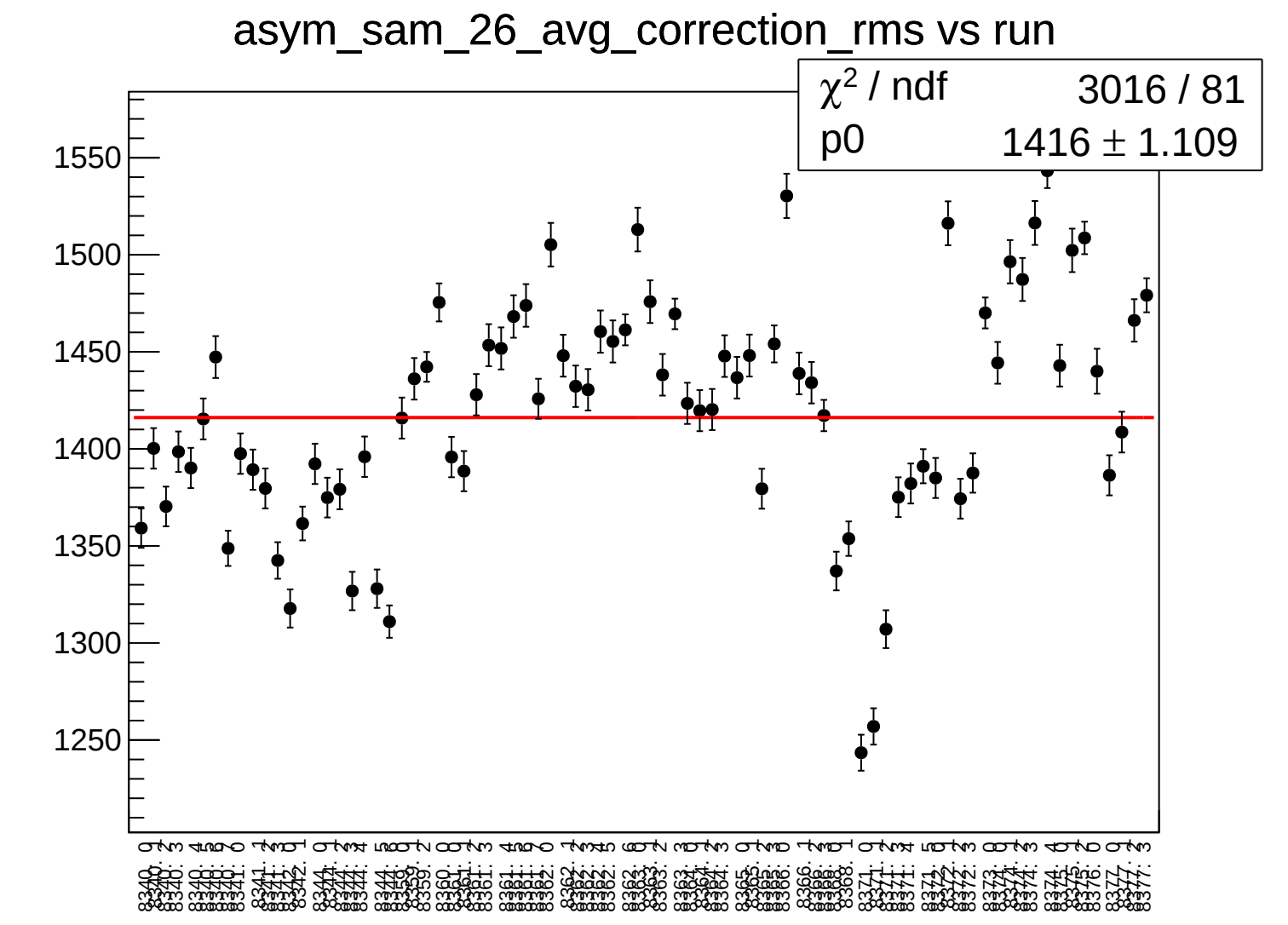

reg_asym_sam_26_avg_mean vs run
χ² / ndf 93.9 / 81
p0 187.1 ± 136.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean 124.5
Std Dev 229.5
2
1
0
−1
−2
−3

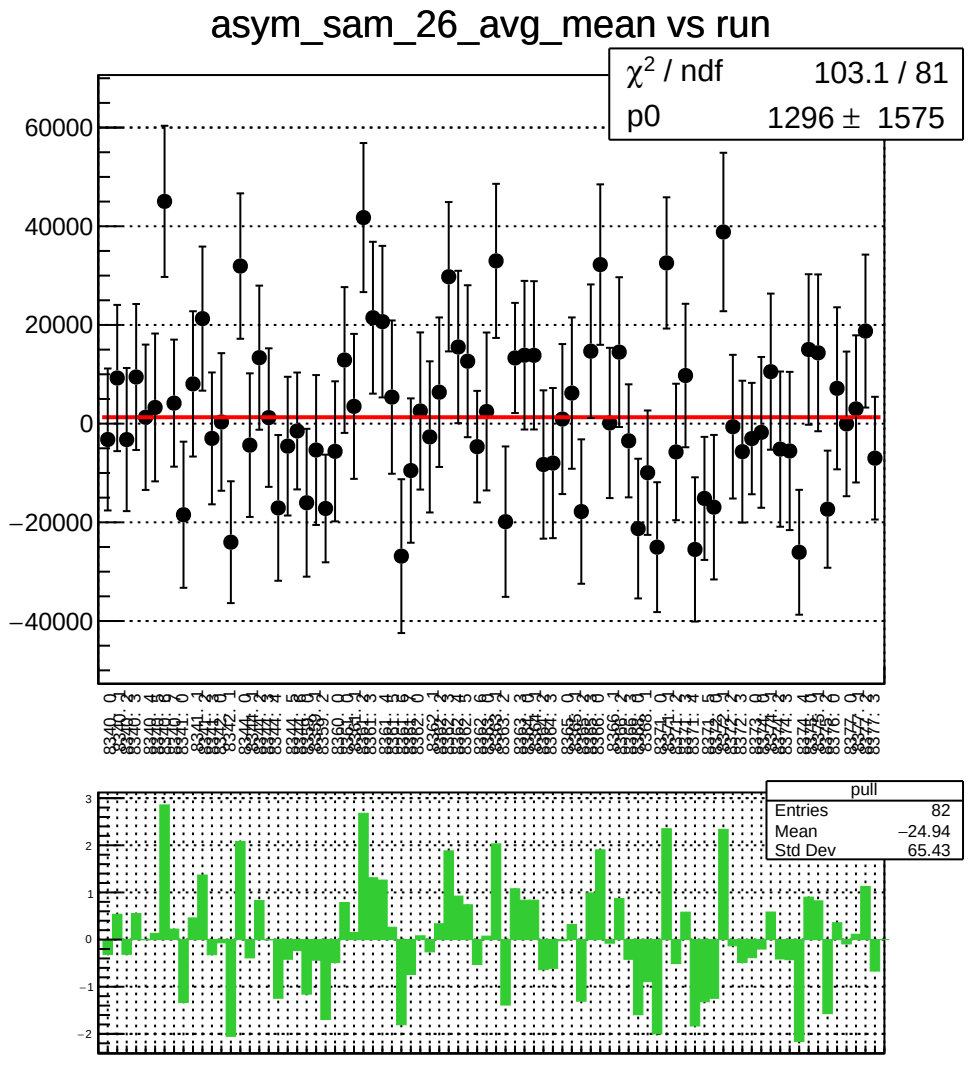

pull1D
Entries 82
Mean 0.001979
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

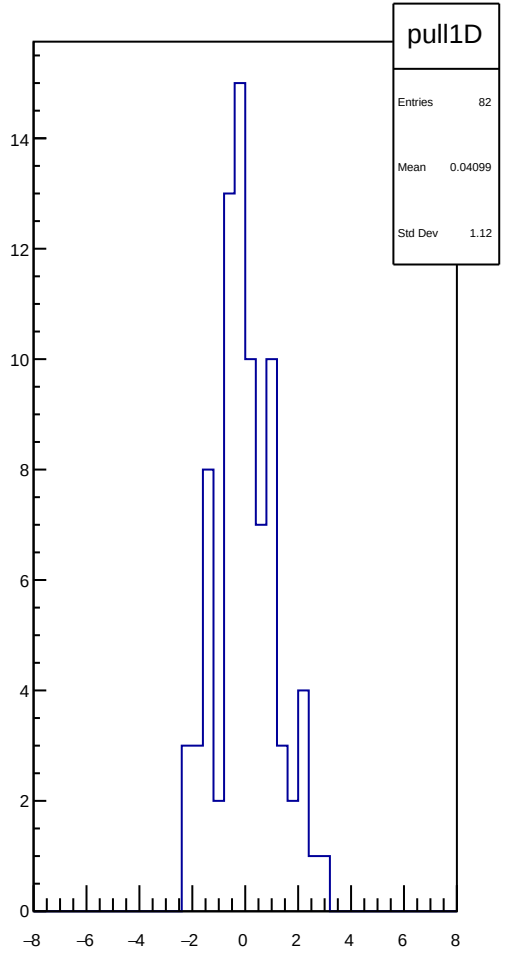

reg_asym_sam_26_avg_rms vs run
χ² / ndf 2.09e+04 / 81
p0 122.5 ± 0.09645
350
300
250
200
150
100

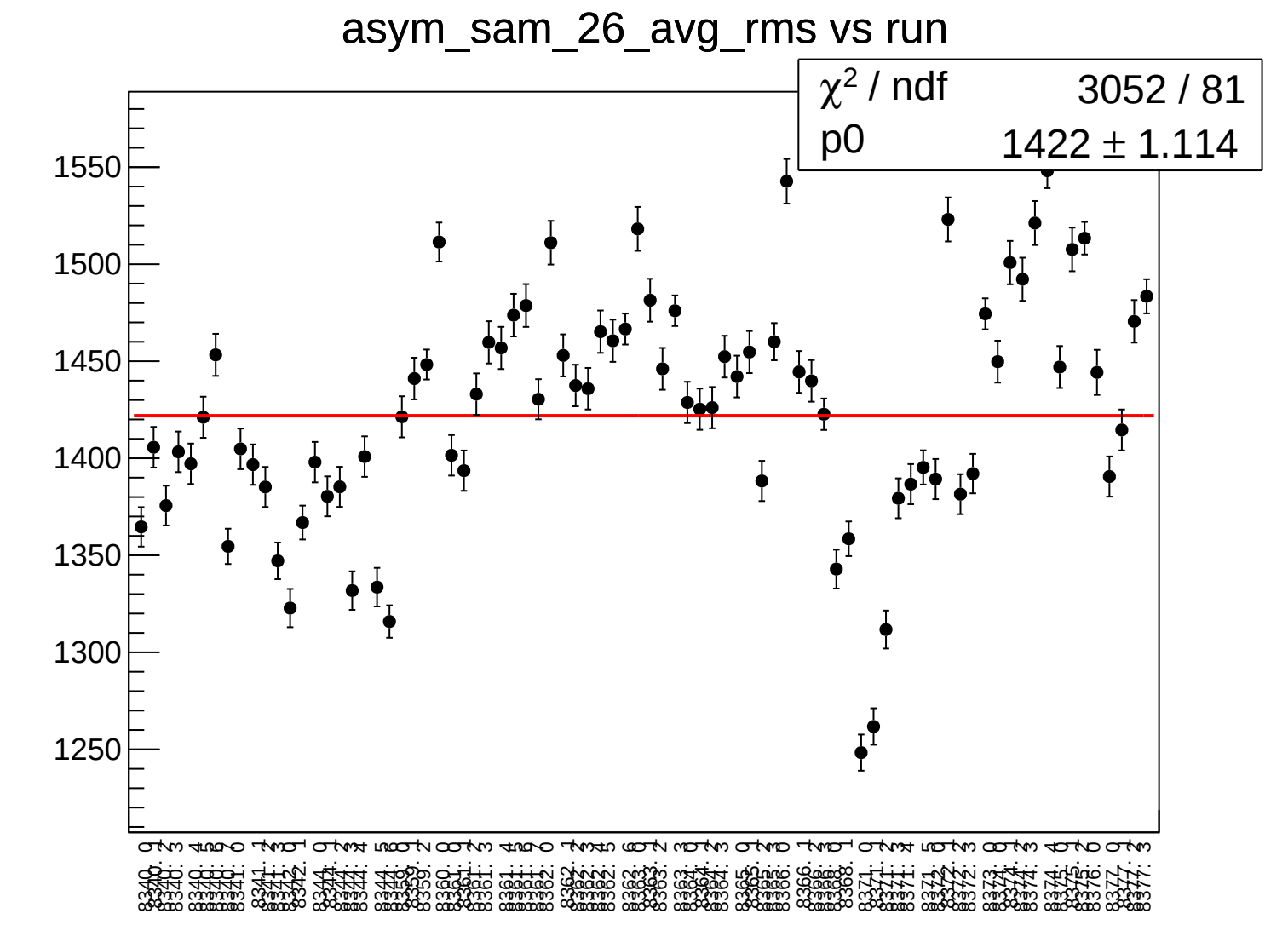

asym_sam_26_avg_correction_mean vs run
χ² / ndf 101.8 / 81
p0 −1144 ± 1569
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −27.65
Std Dev 67.03
2
1
0
−1
−2
−3

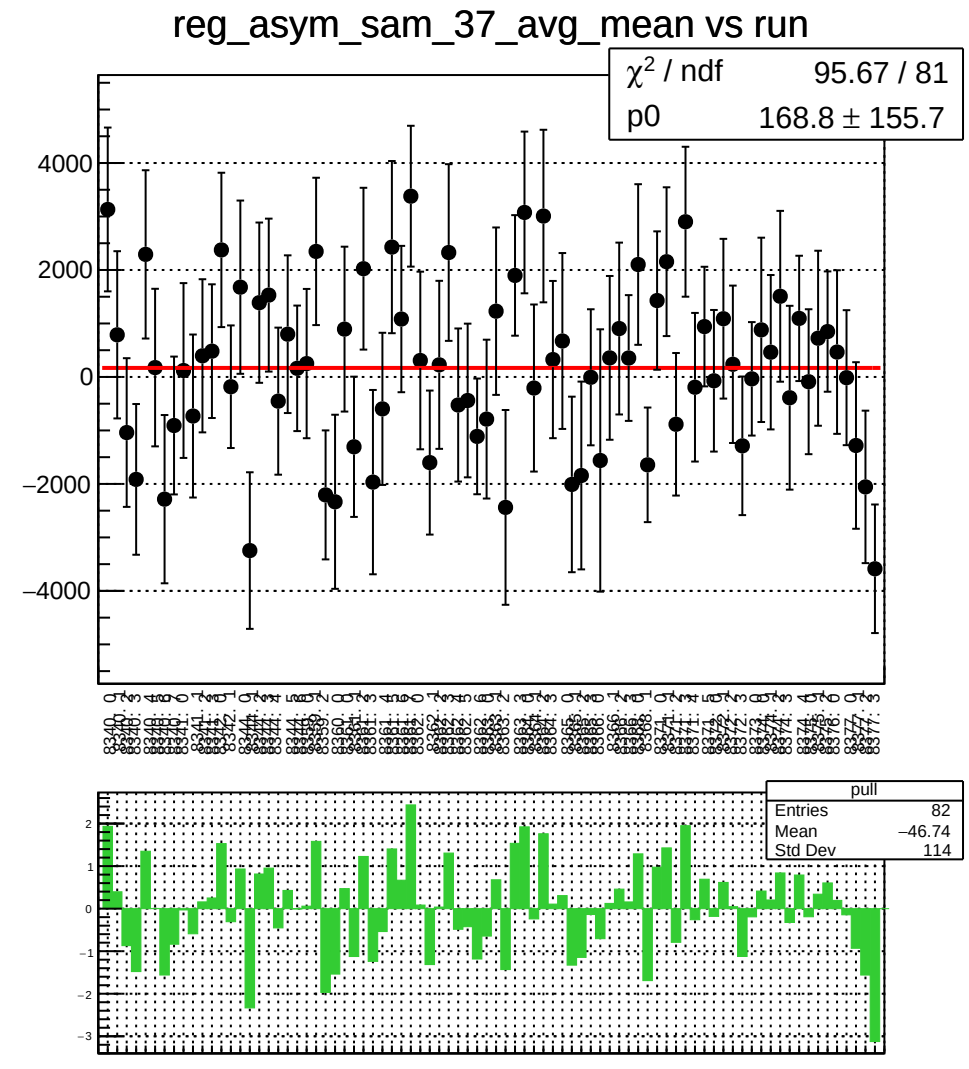

pull1D
Entries 82
Mean −0.04044
Std Dev 1.113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

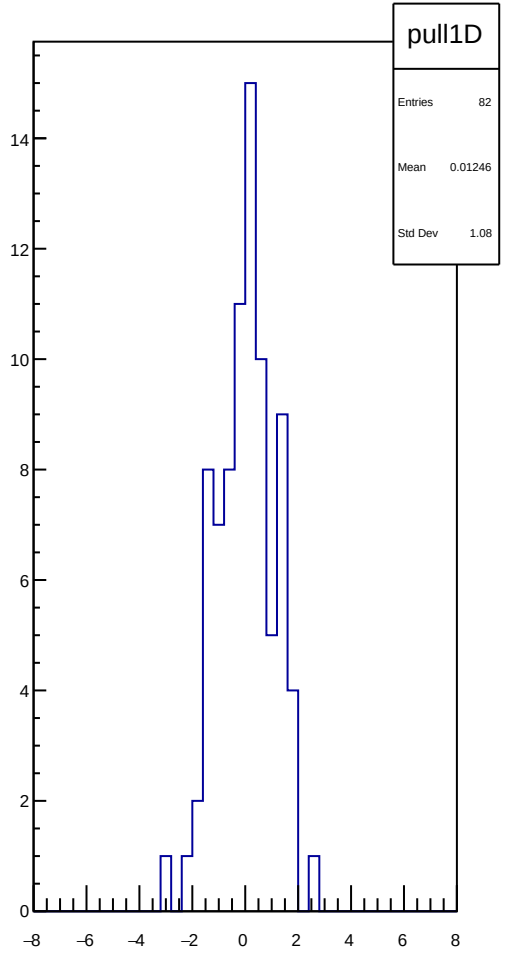

asym_sam_26_avg_correction_rms vs run
χ² / ndf 3016 / 81
p0 1416 ± 1.109
1550
1500
1450
1400
1350
1300
1250

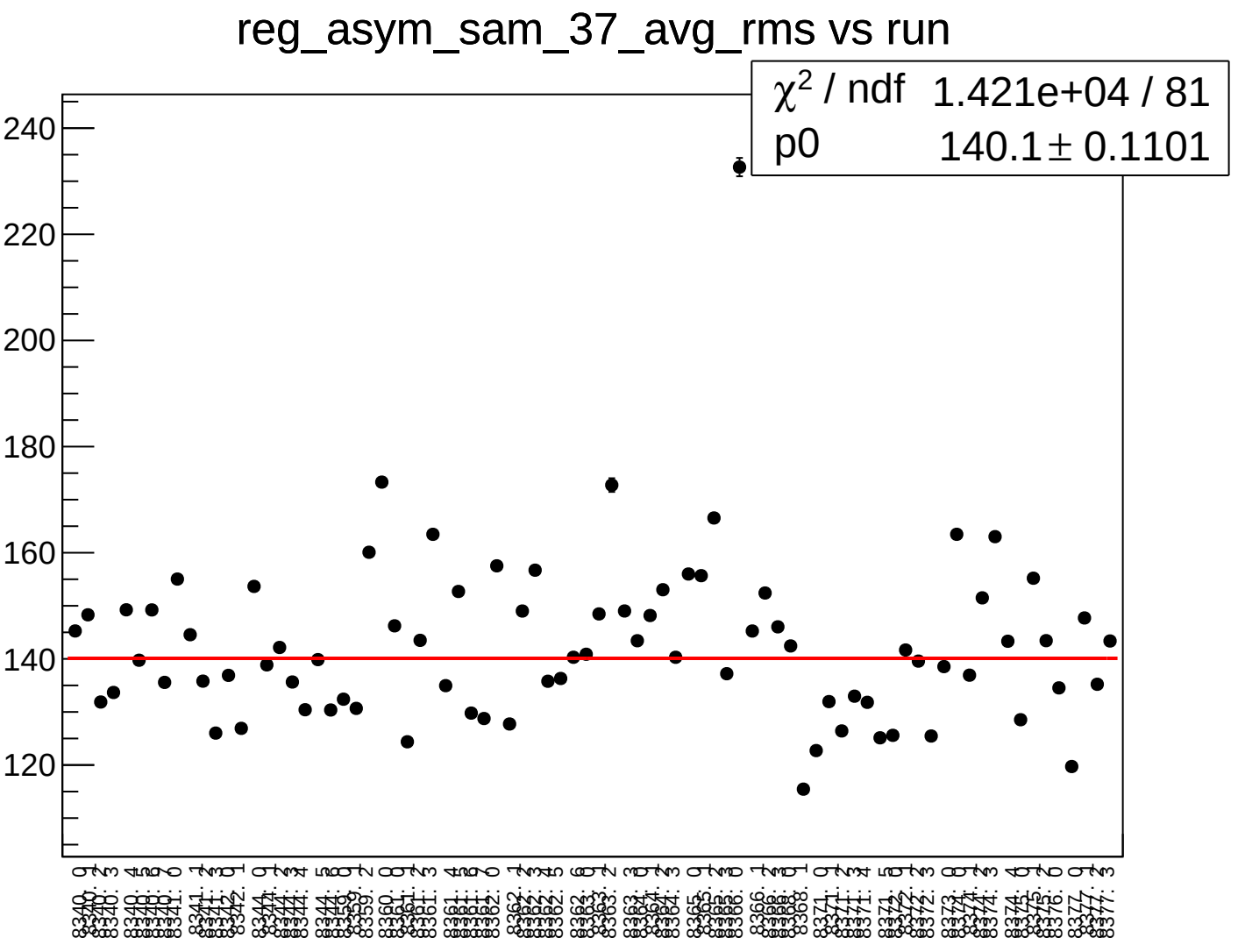

asym_sam_26_avg_mean vs run
χ² / ndf 103.1 / 81
p0 1296 ± 1575
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −24.94
Std Dev 65.43
3
2
1
0
−1
−2

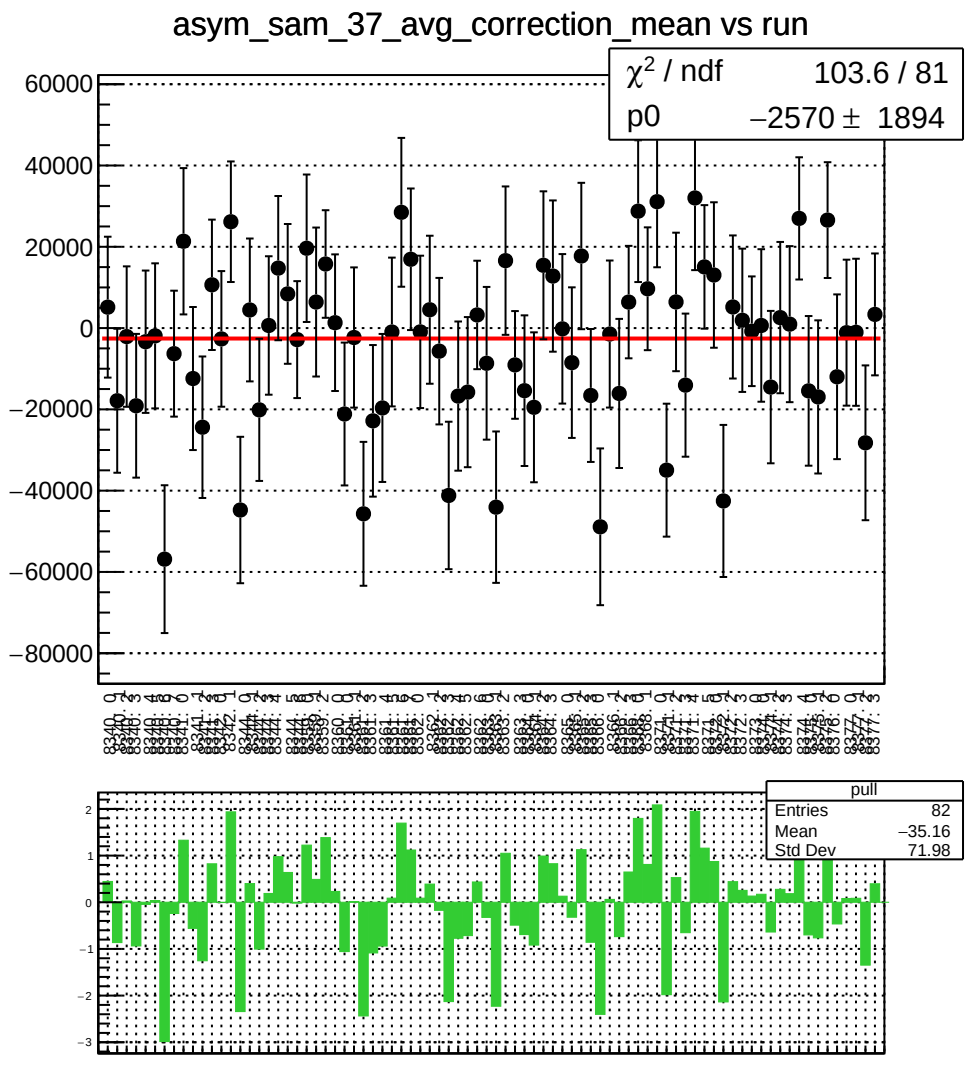

pull1D
Entries 82
Mean 0.04099
Std Dev 1.12
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

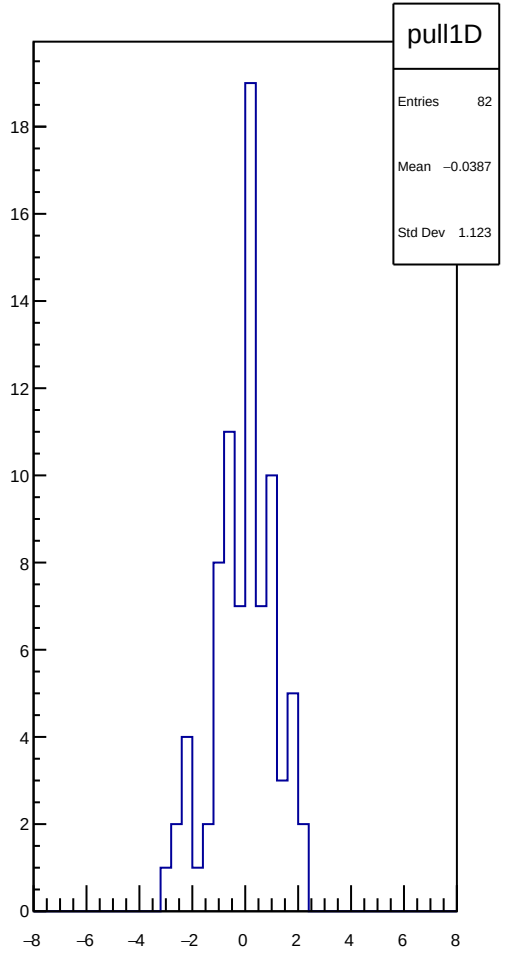

asym_sam_26_avg_rms vs run
χ^2 / ndf 3052 / 81
p0 1422 ± 1.114
1550
1500
1450
1400
1350
1300
1250

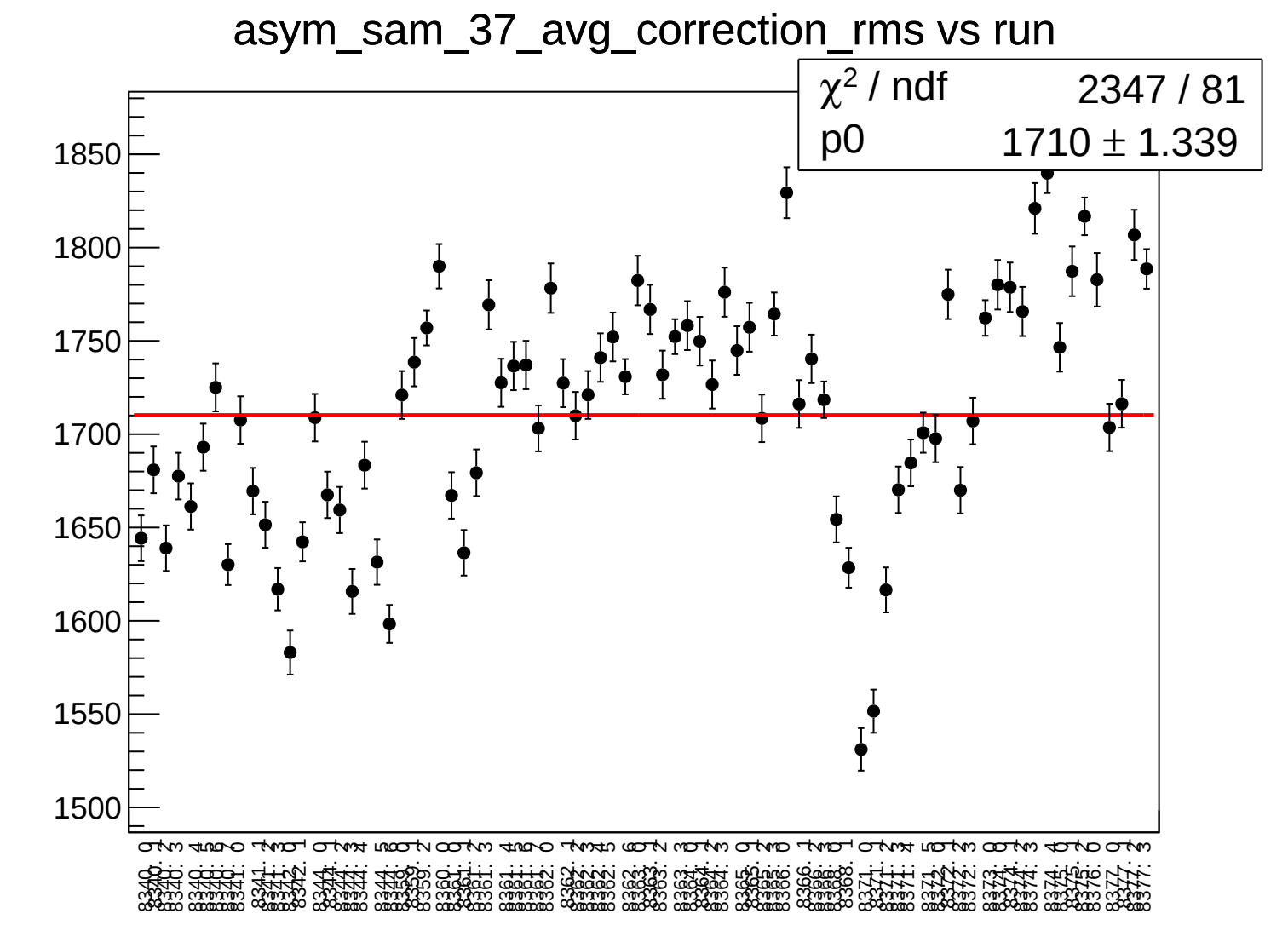

reg_asym_sam_37_avg_mean vs run
χ² / ndf 95.67 / 81
p0 168.8 ± 155.7
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −46.74
Std Dev 114
2
1
0
−1
−2
−3

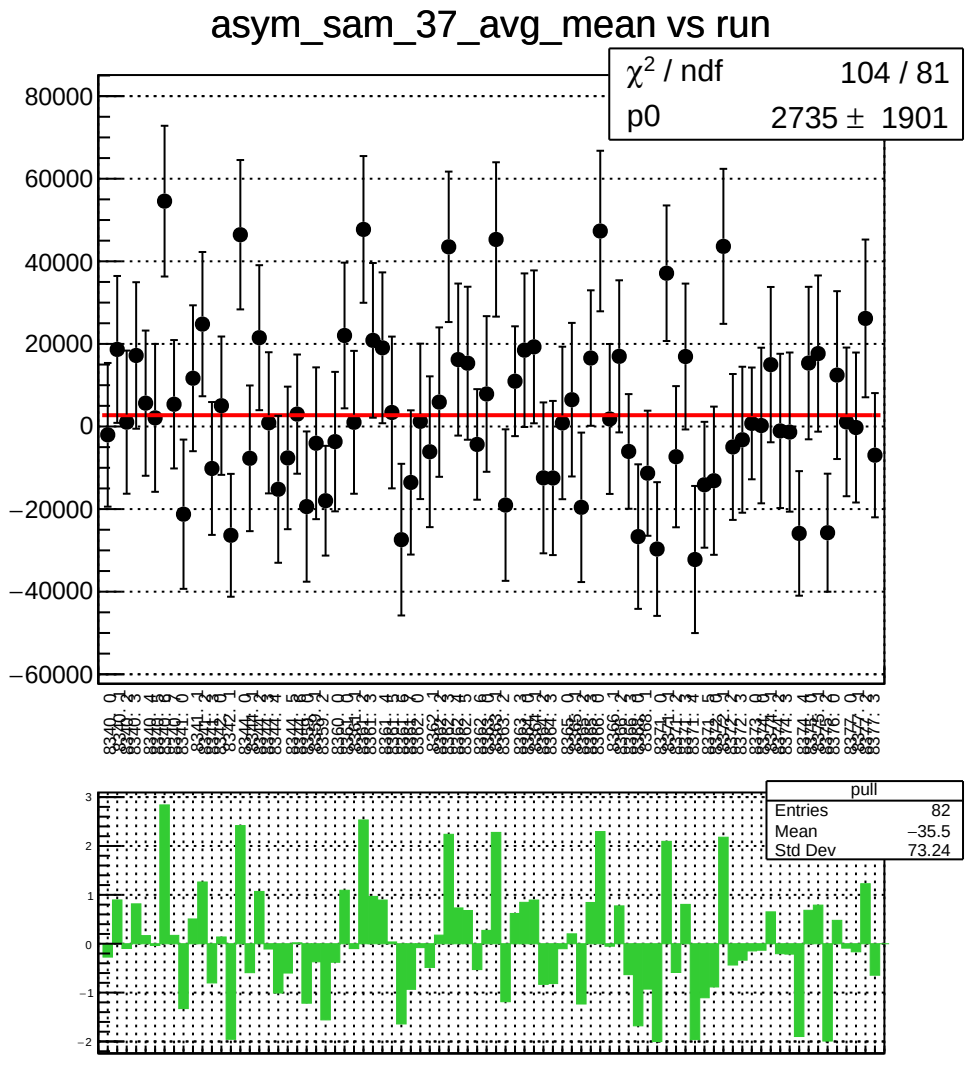

pull1D
Entries 82
Mean 0.01246
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

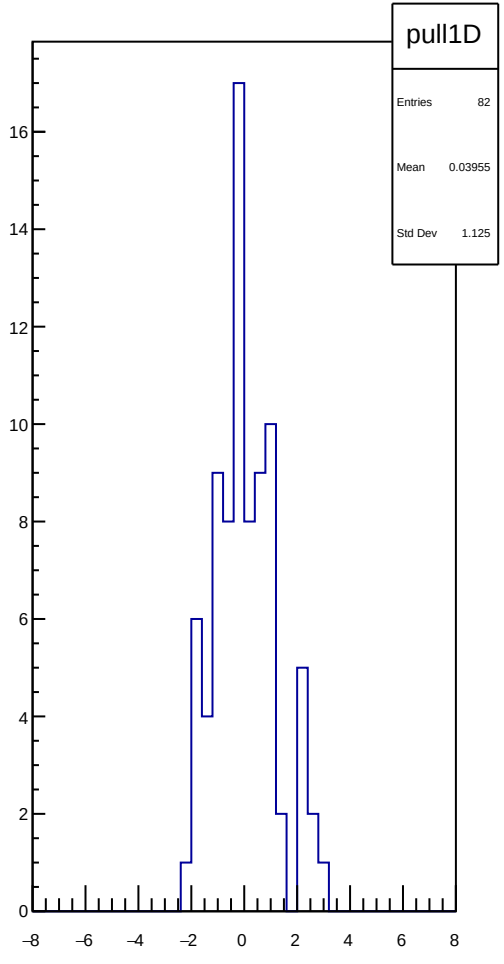

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.421e+04 / 81
p0 140.1 ± 0.1101
240
220
200
180
160
140
120

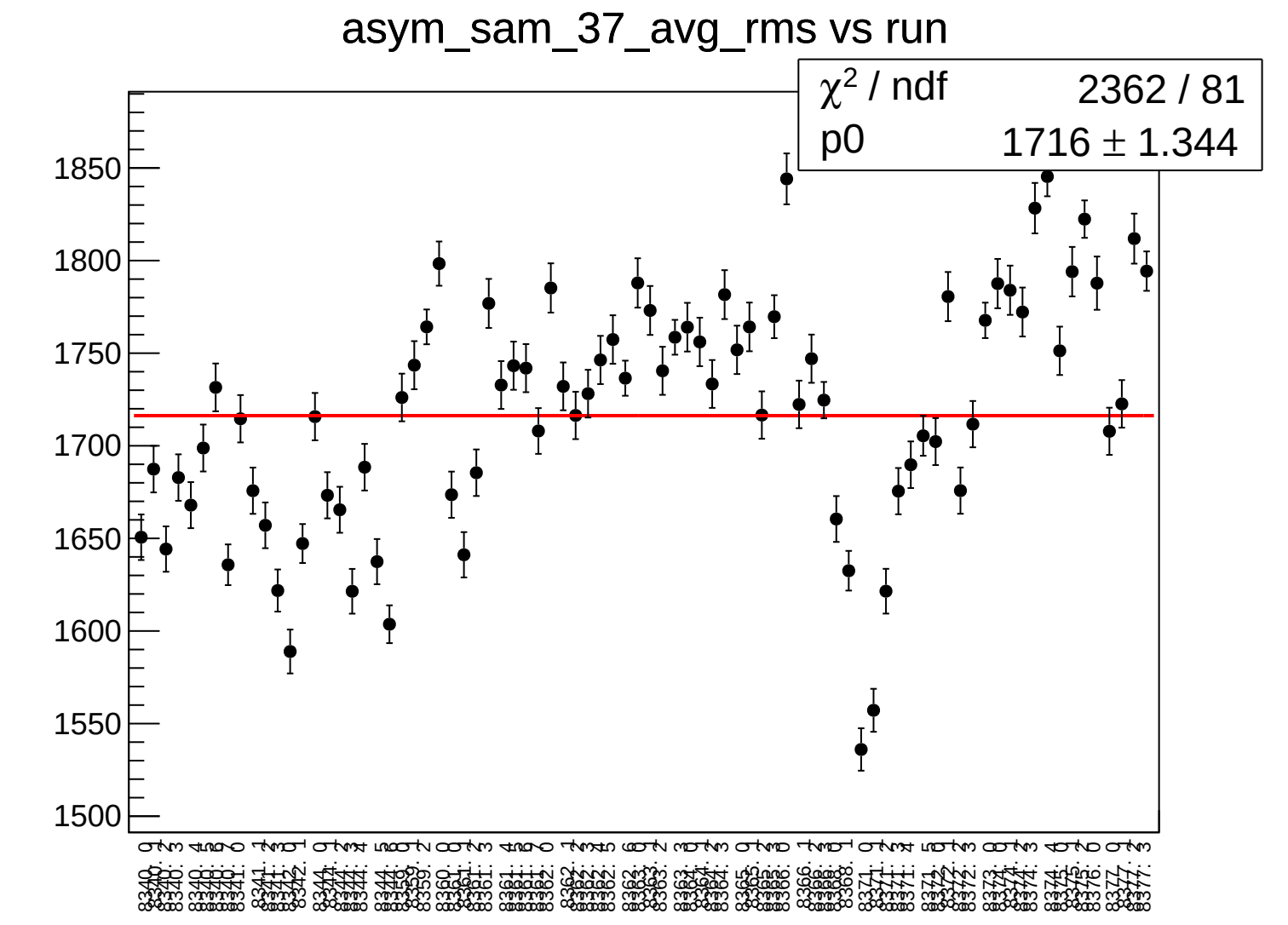

asym_sam_37_avg_correction_mean vs run
χ² / ndf 103.6 / 81
p0 −2570 ± 1894
pull
Entries 82
Mean −35.16
Std Dev 71.98

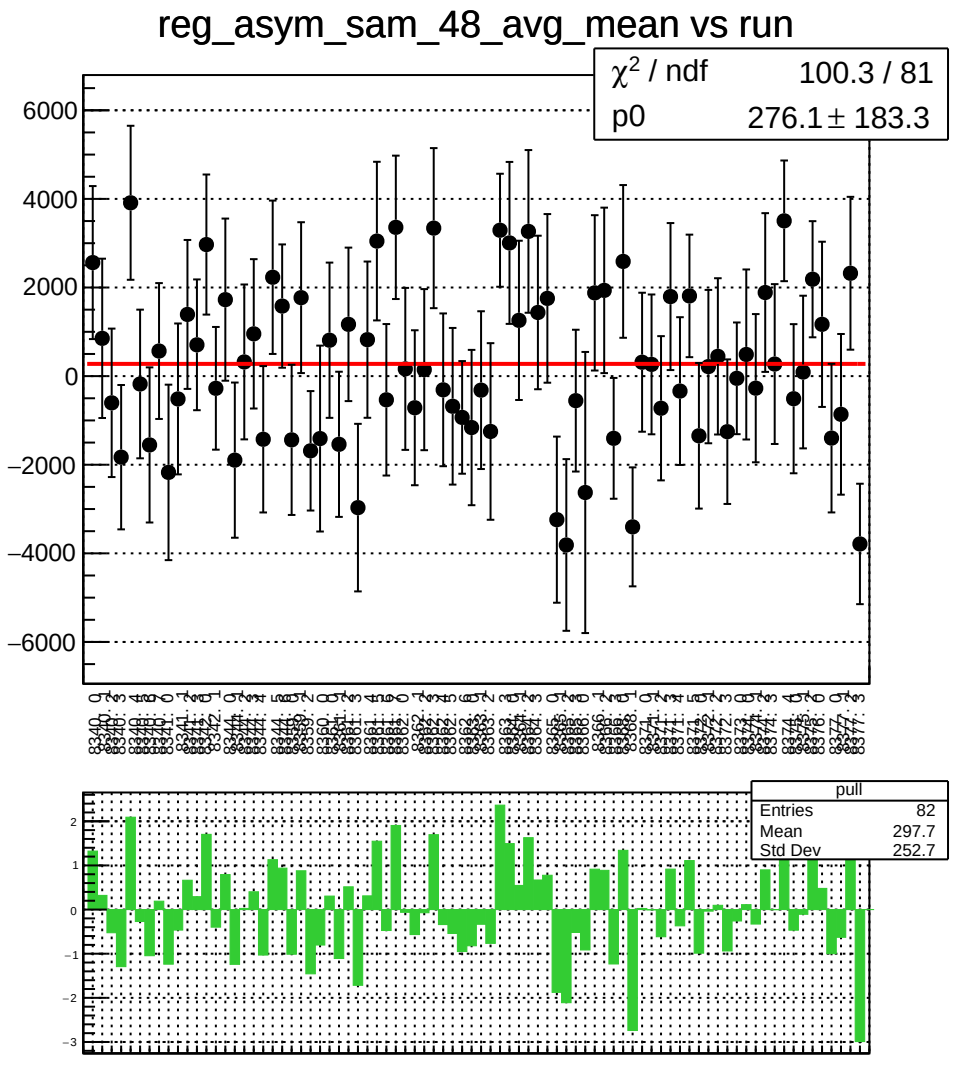

pull1D
Entries 82
Mean −0.0387
Std Dev 1.123

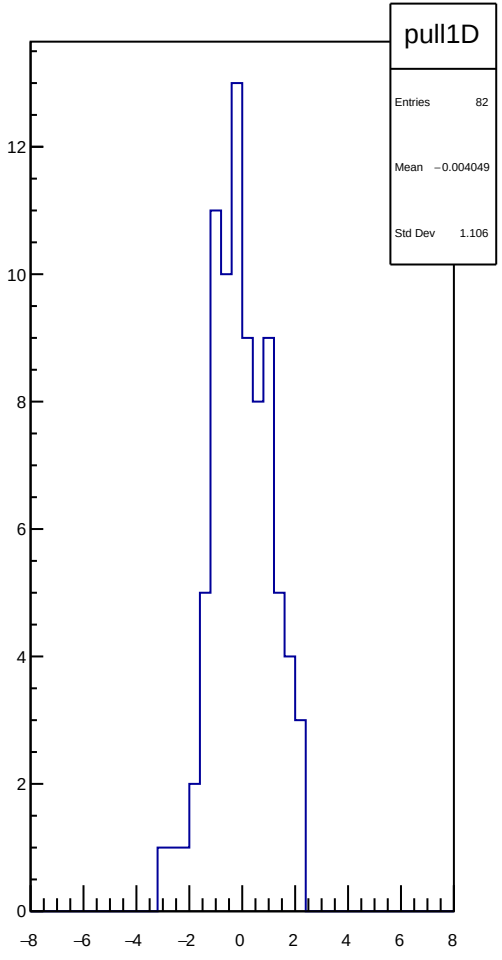

asym_sam_37_avg_correction_rms vs run
χ² / ndf 2347 / 81
p0 1710 ± 1.339
1850
1800
1750
1700
1650
1600
1550
1500

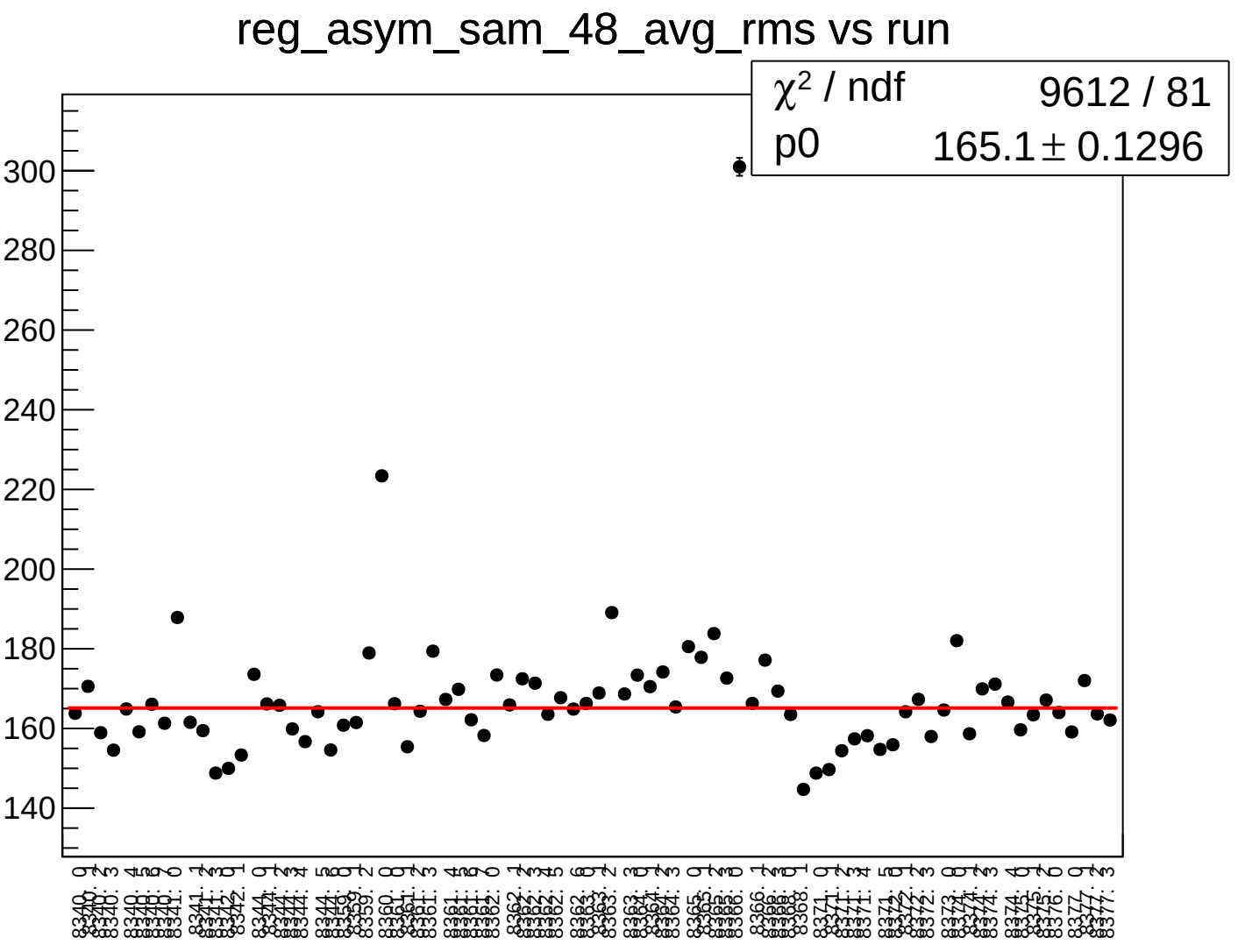

asym_sam_37_avg_mean vs run
χ² / ndf 104 / 81
p0 2735 ± 1901
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −35.5
Std Dev 73.24
3
2
1
0
−1
−2

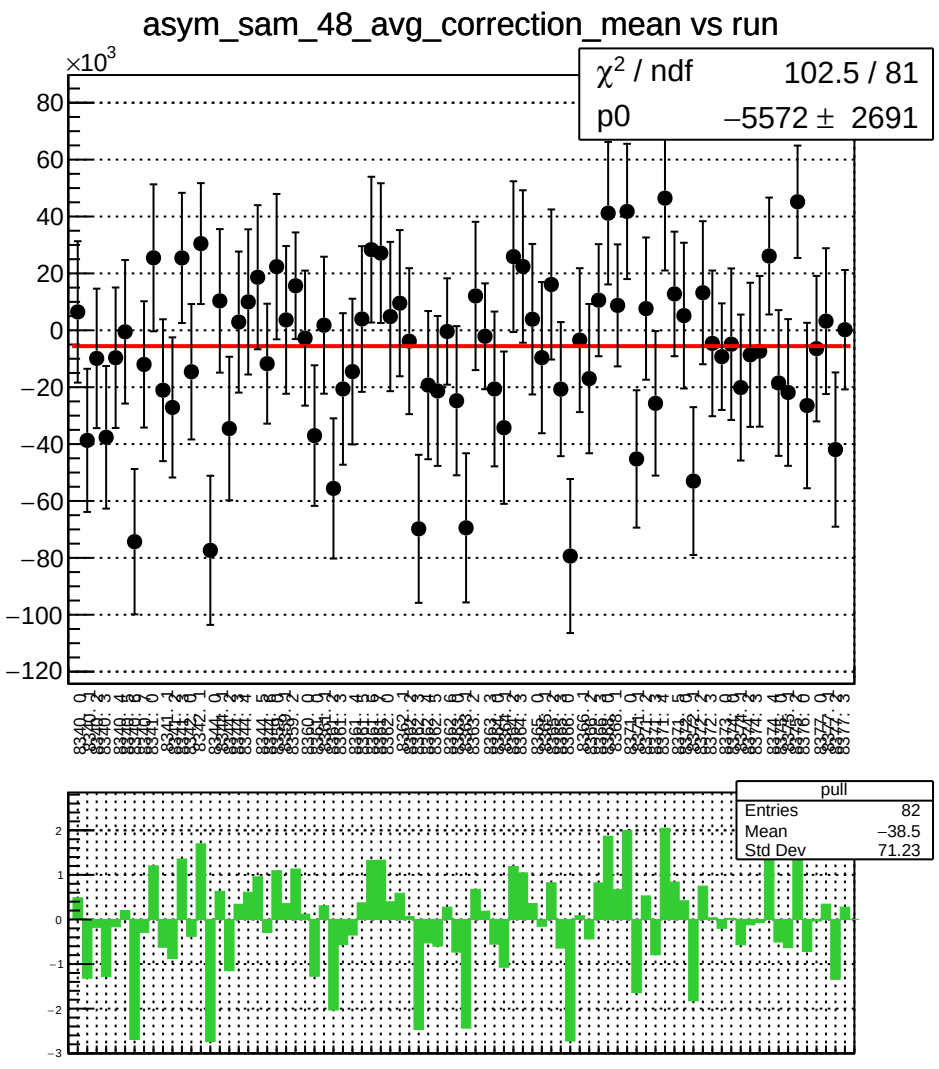

pull1D
Entries 82
Mean 0.03955
Std Dev 1.125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

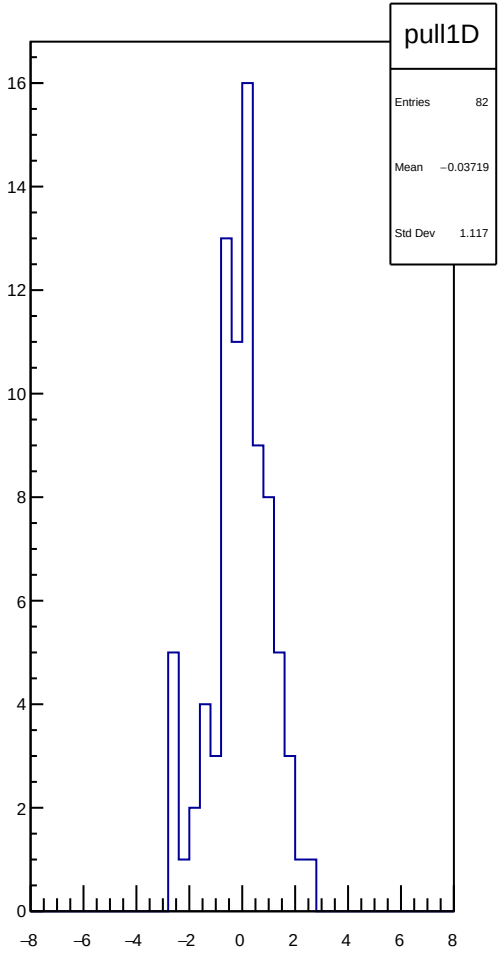

asym_sam_37_avg_rms vs run
χ^2 / ndf 2362 / 81
p0 1716 ± 1.344
1850
1800
1750
1700
1650
1600
1550
1500

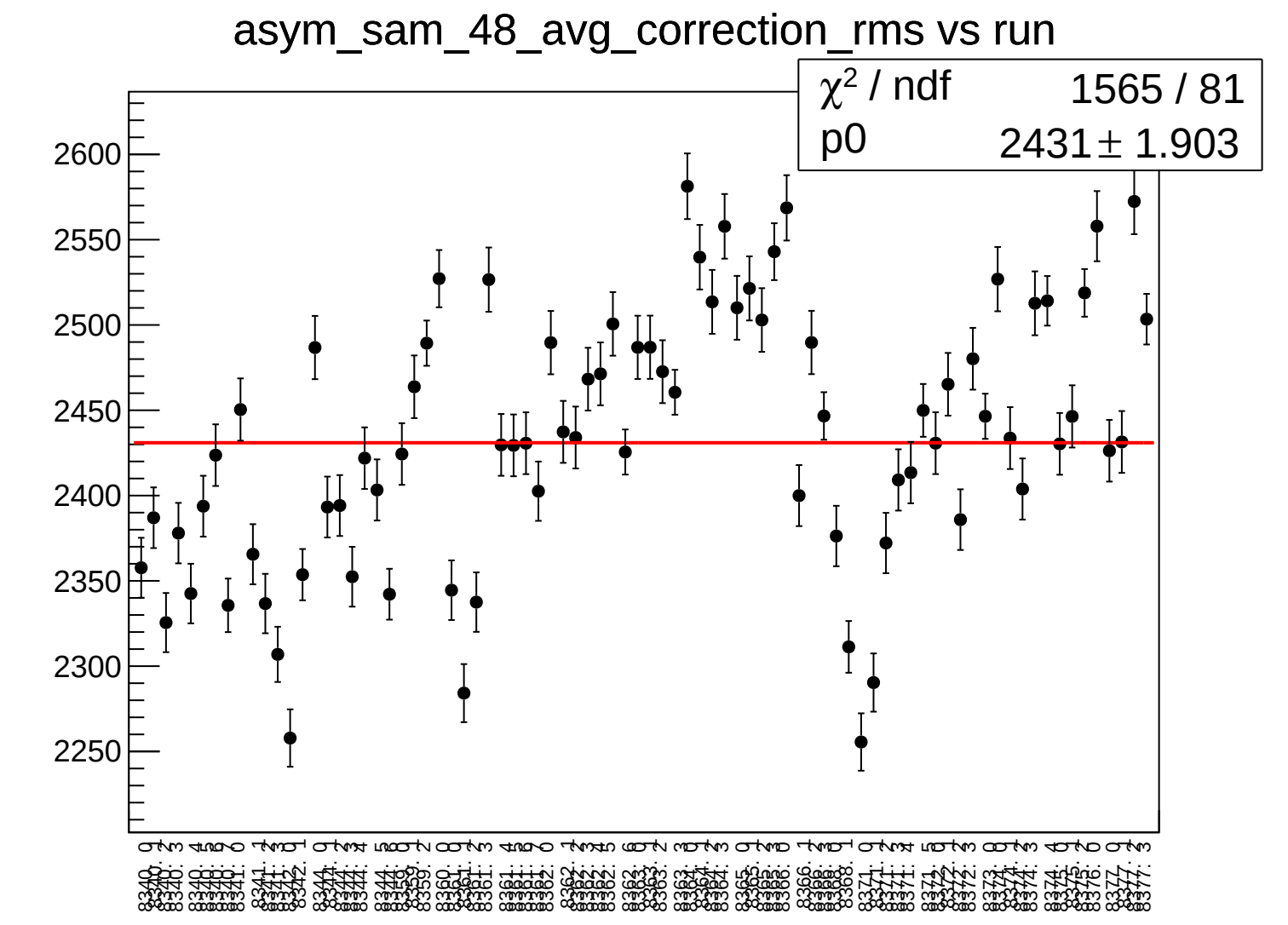

reg_asym_sam_48_avg_mean vs run
χ² / ndf 100.3 / 81
p0 276.1 ± 183.3
pull
Entries 82
Mean 297.7
Std Dev 252.7

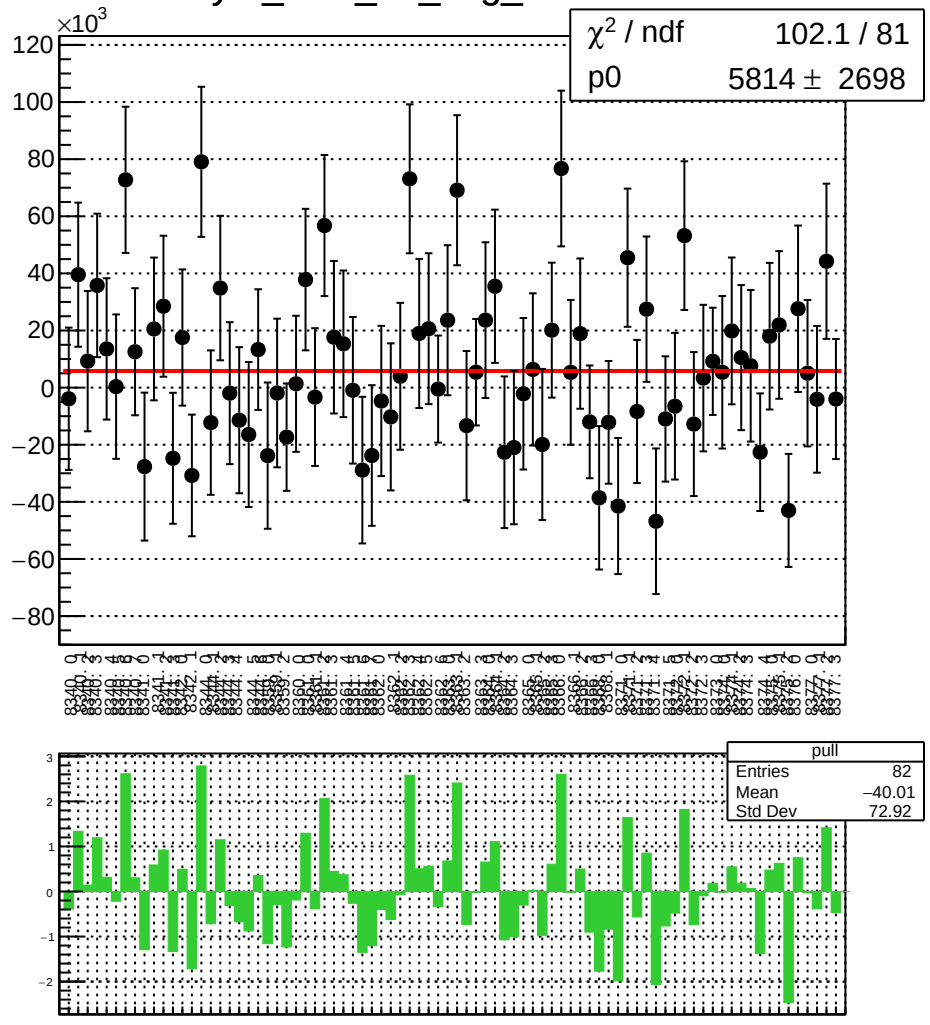

pull1D
Entries 82
Mean −0.004049
Std Dev 1.106

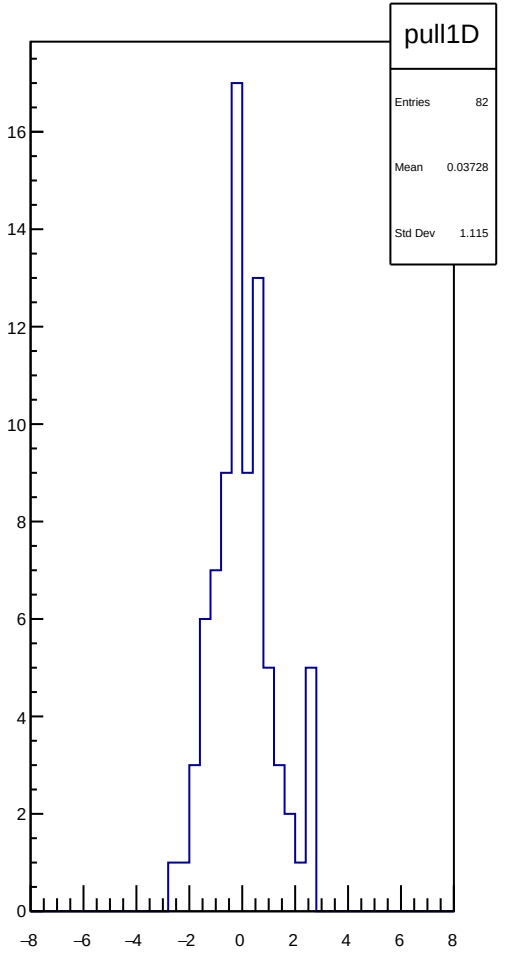

reg_asym_sam_48_avg_rms vs run
χ² / ndf 9612 / 81
p0 165.1 ± 0.1296
300
280
260
240
220
200
180
160
140

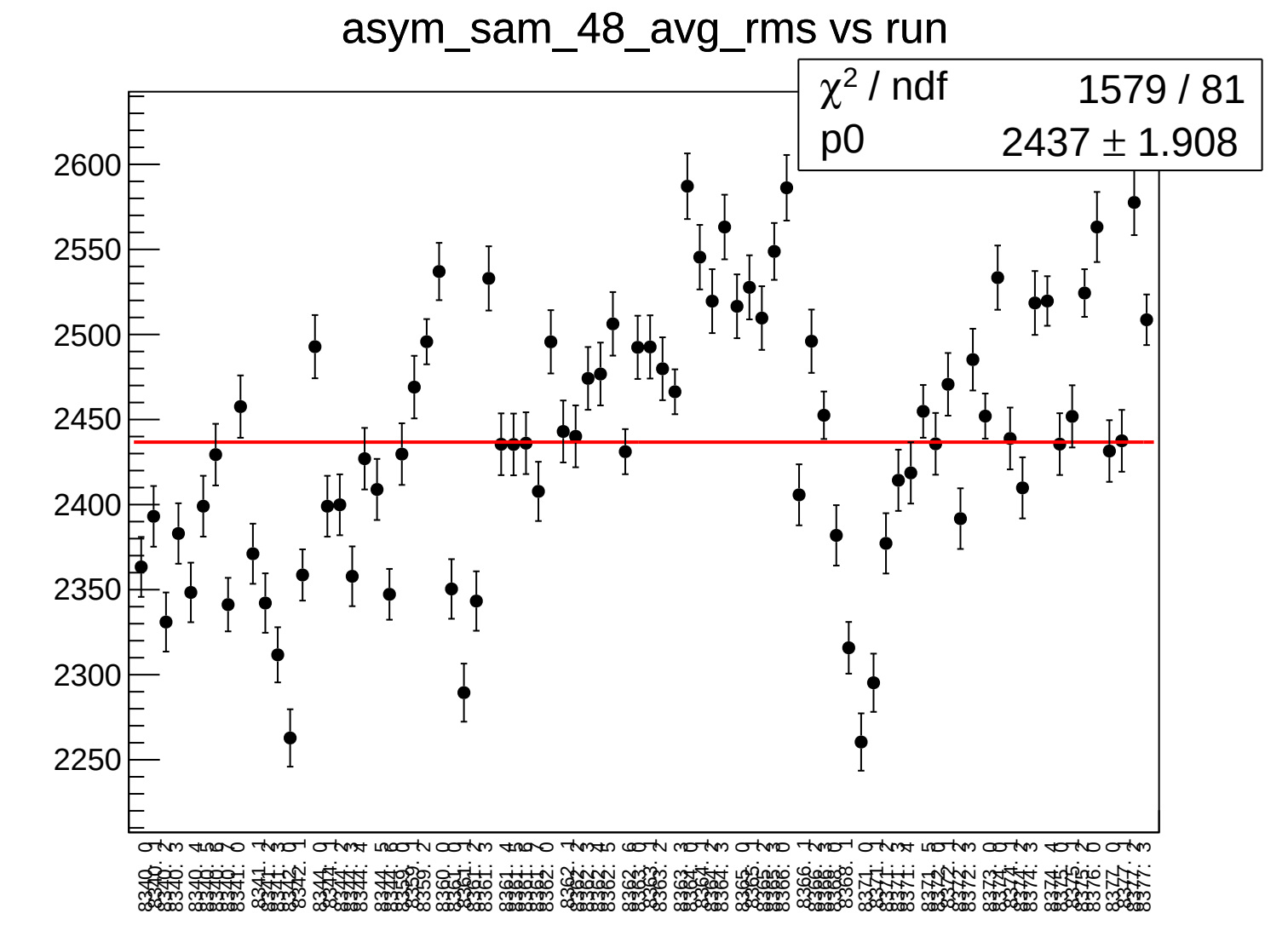

asym_sam_48_avg_correction_mean vs run
×10^3
χ² / ndf 102.5 / 81
p0 −5572 ± 2691
pull
Entries 82
Mean −38.5
Std Dev 71.23

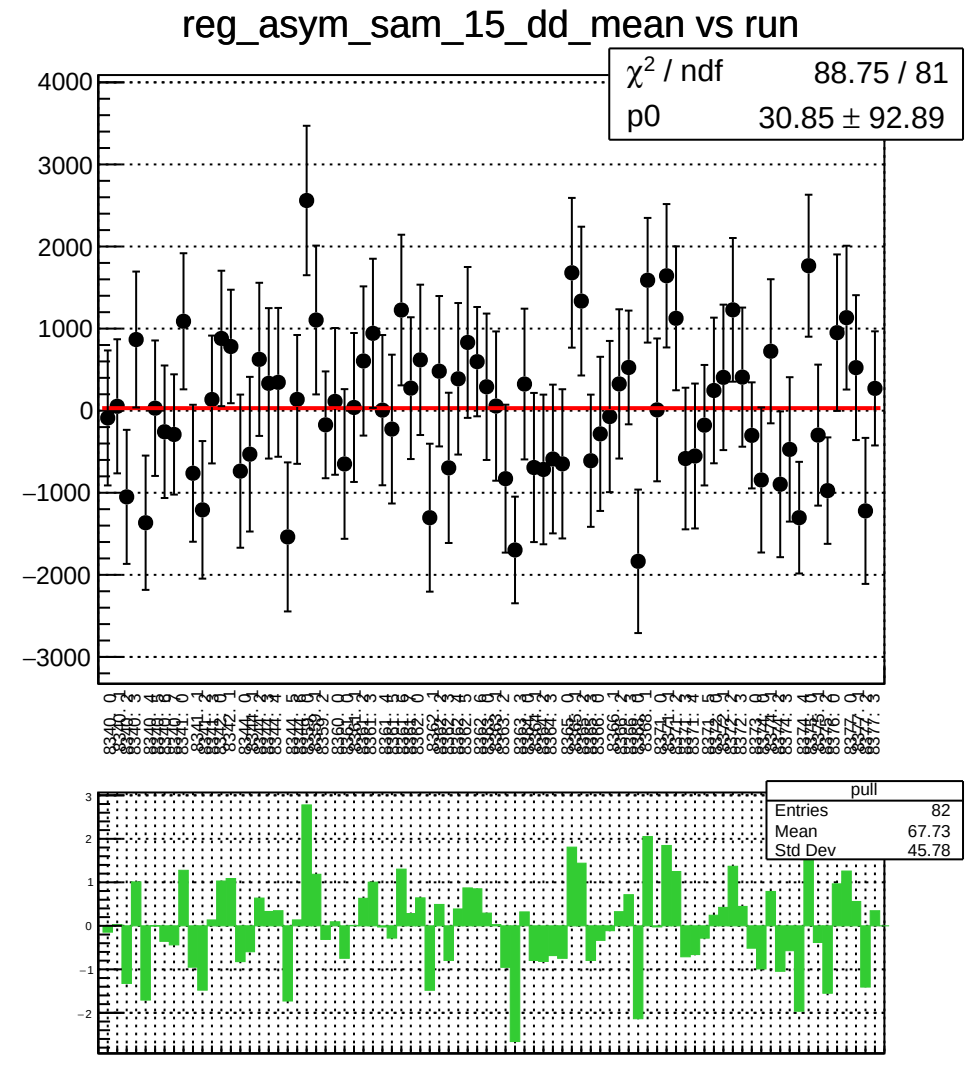

pull1D
Entries 82
Mean −0.03719
Std Dev 1.117

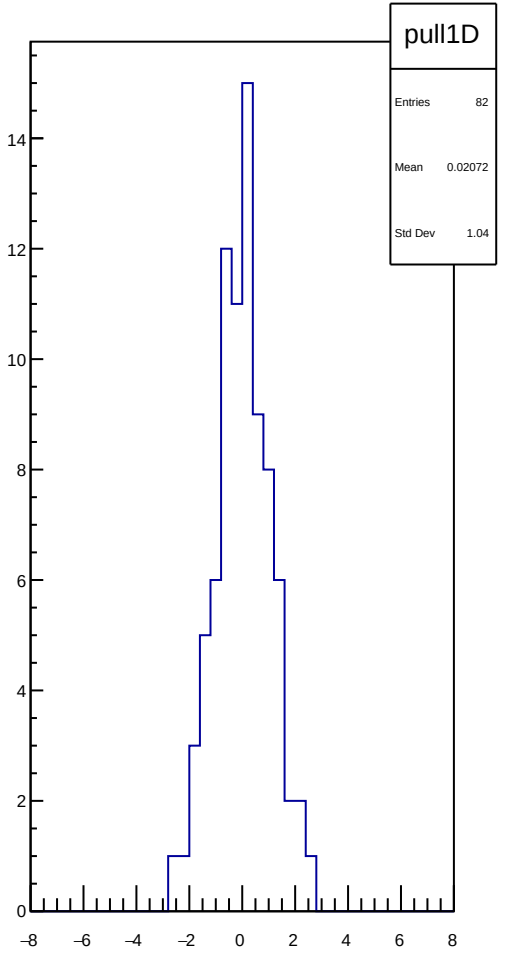

asym_sam_48_avg_correction_rms vs run
χ² / ndf 1565 / 81
p0 2431 ± 1.903
2600
2550
2500
2450
2400
2350
2300
2250

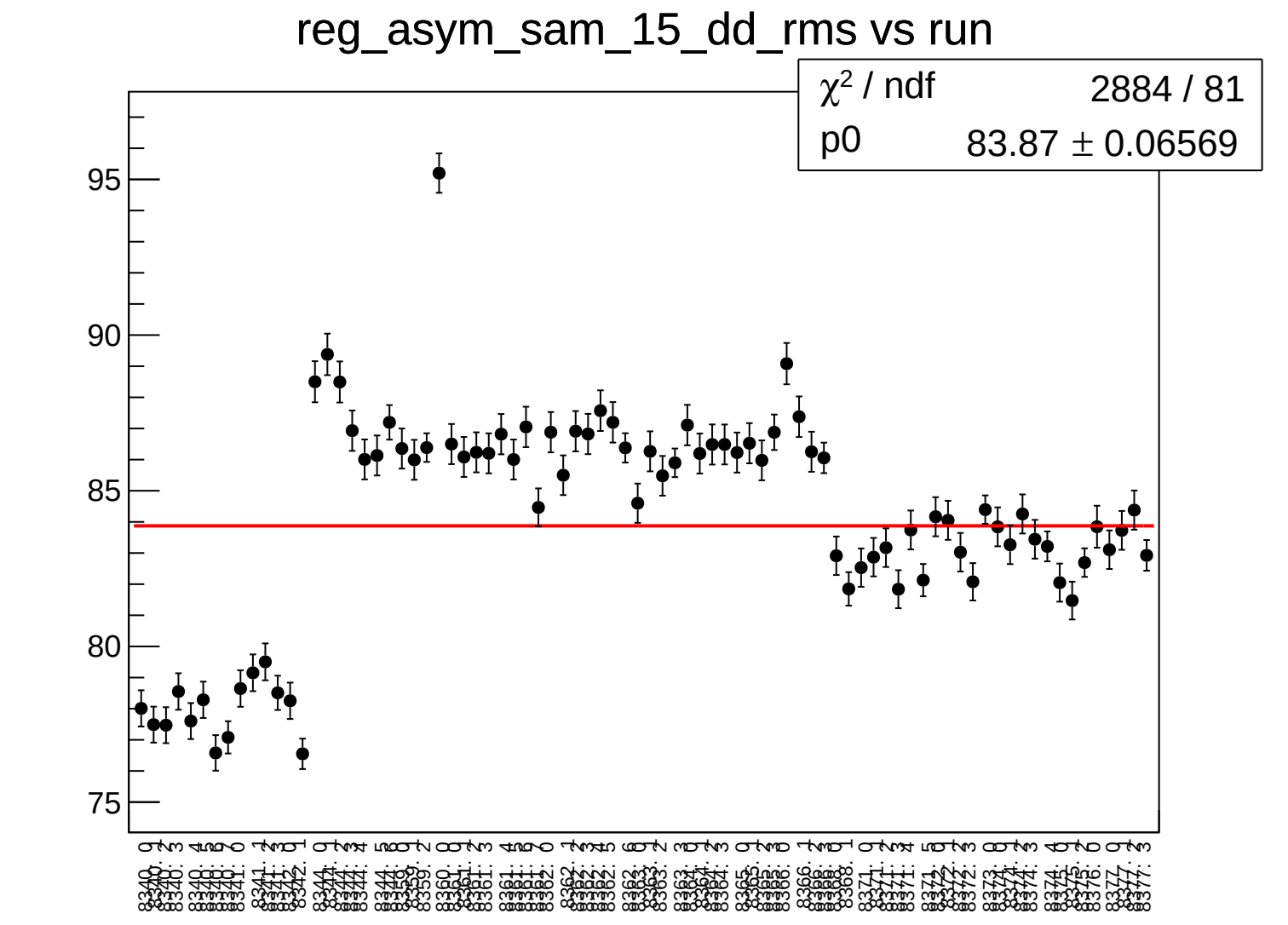

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 102.1 / 81
p0 5814 ± 2698
pull
Entries 82
Mean −40.01
Std Dev 72.92

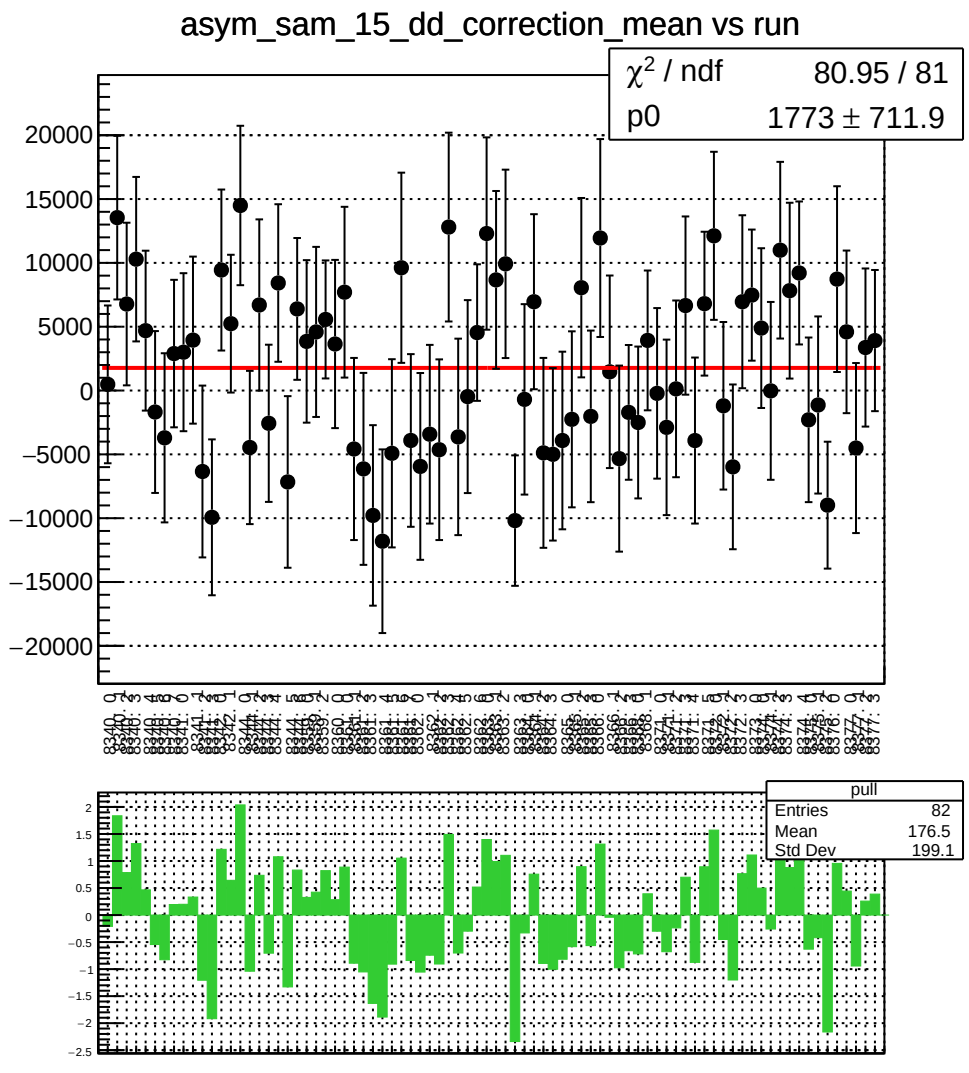

pull1D
Entries 82
Mean 0.03728
Std Dev 1.115

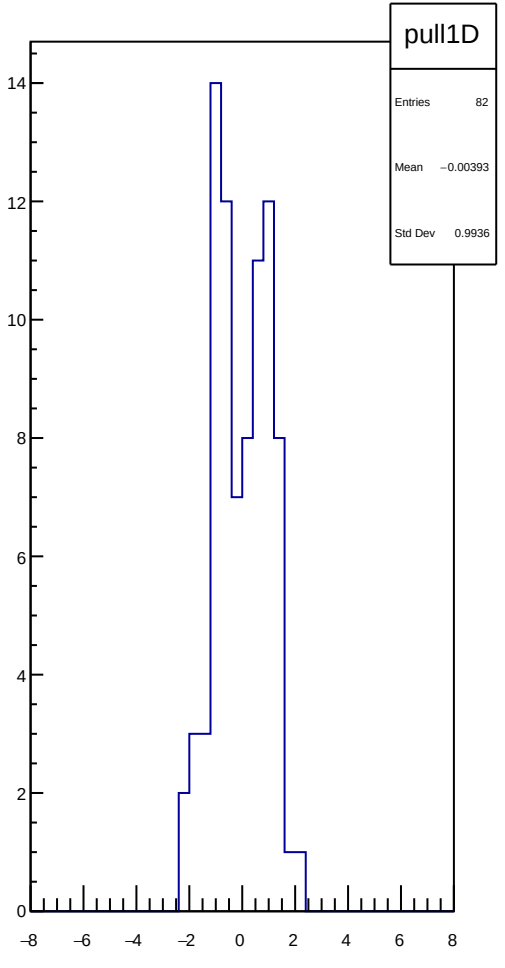

asym_sam_48_avg_rms vs run
χ^2 / ndf 1579 / 81
p0 2437 ± 1.908
2600
2550
2500
2450
2400
2350
2300
2250

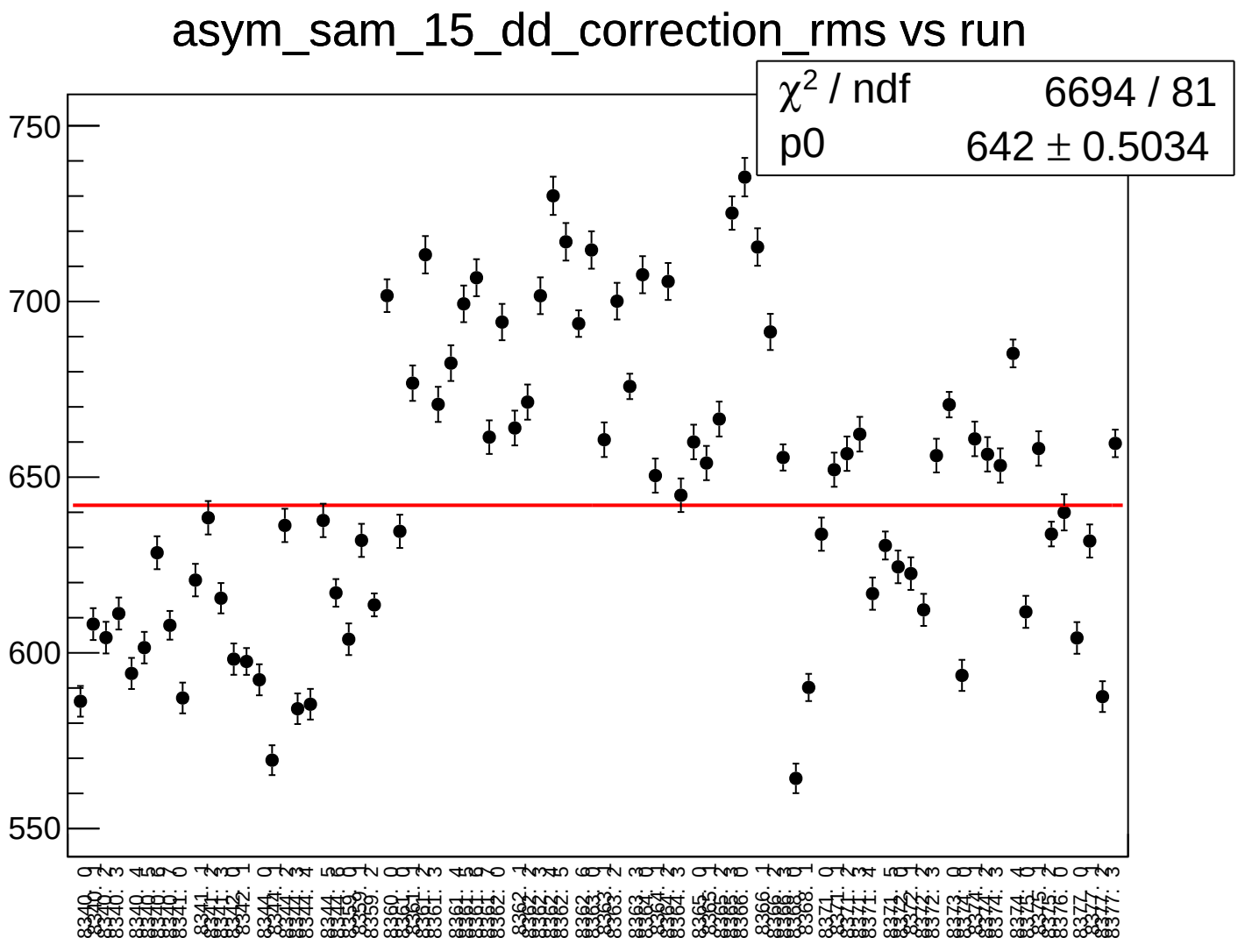

reg_asym_sam_15_dd_mean vs run
χ² / ndf 88.75 / 81
p0 30.85 ± 92.89
pull
Entries 82
Mean 67.73
Std Dev 45.78

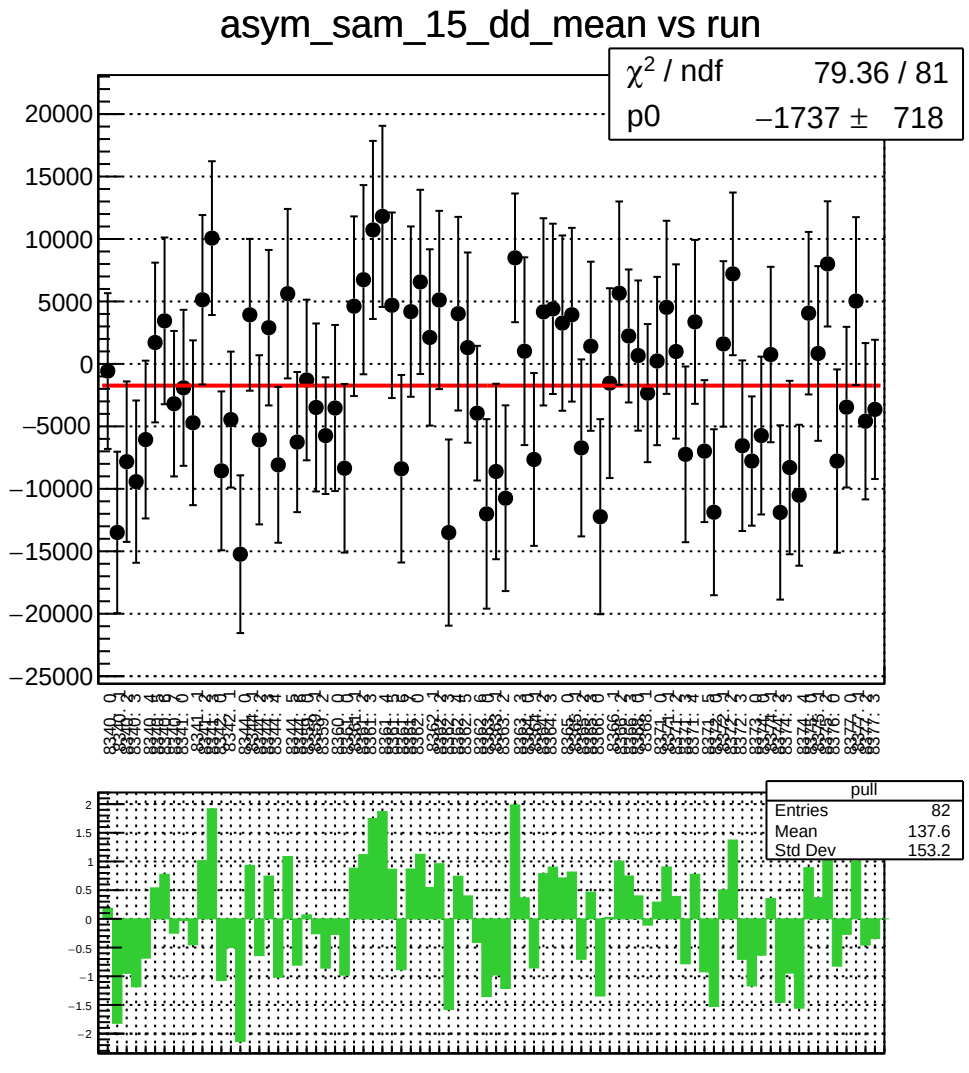

pull1D
Entries 82
Mean 0.02072
Std Dev 1.04

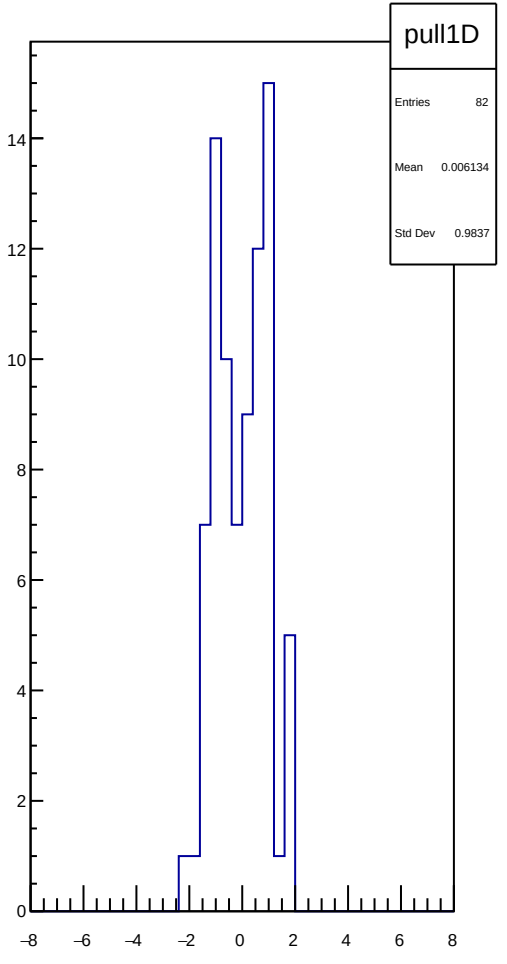

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 2884 / 81
p0 83.87 ± 0.06569
95
90
85
80
75

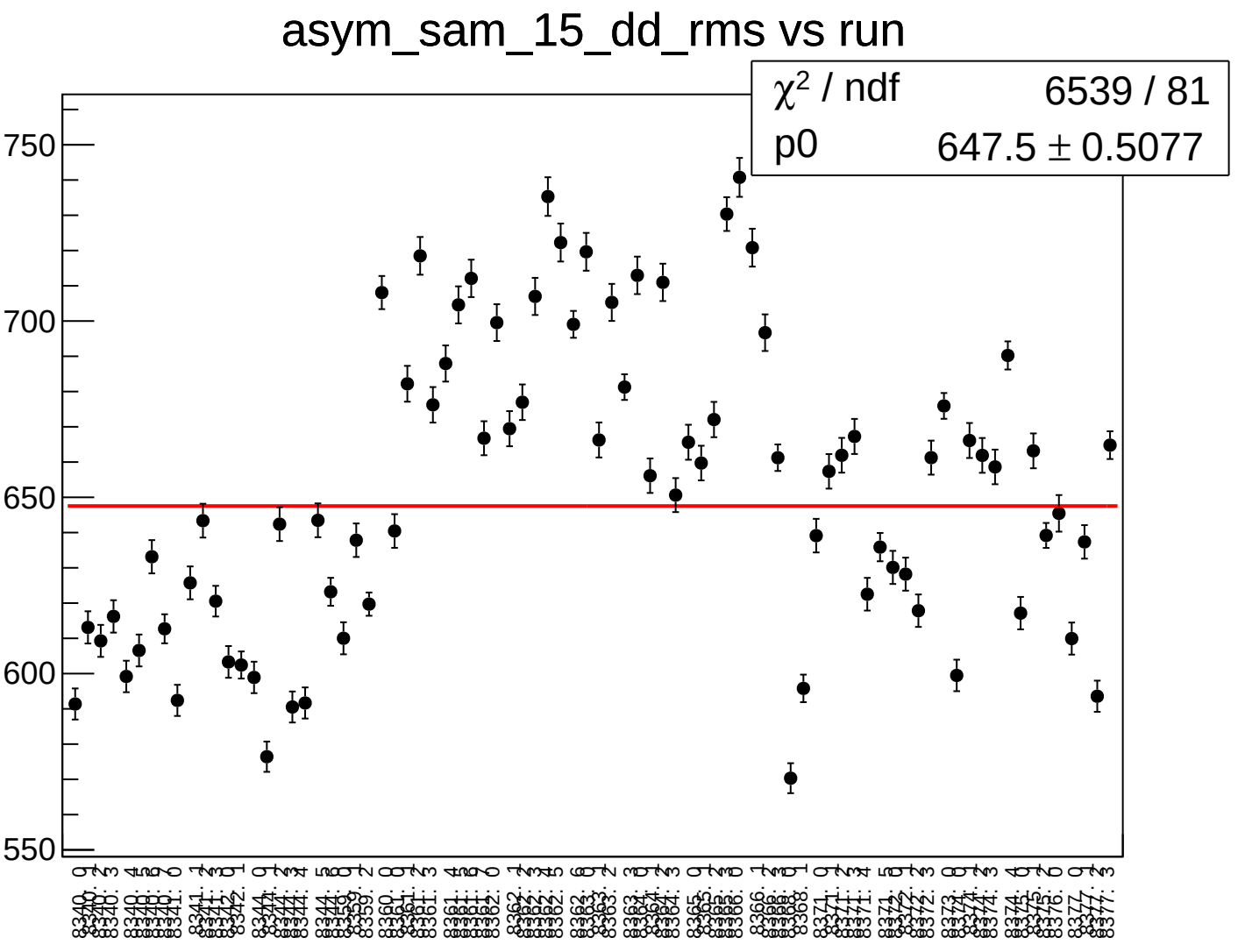

asym_sam_15_dd_correction_mean vs run
χ² / ndf 80.95 / 81
p0 1773 ± 711.9
pull
Entries 82
Mean 176.5
Std Dev 199.1

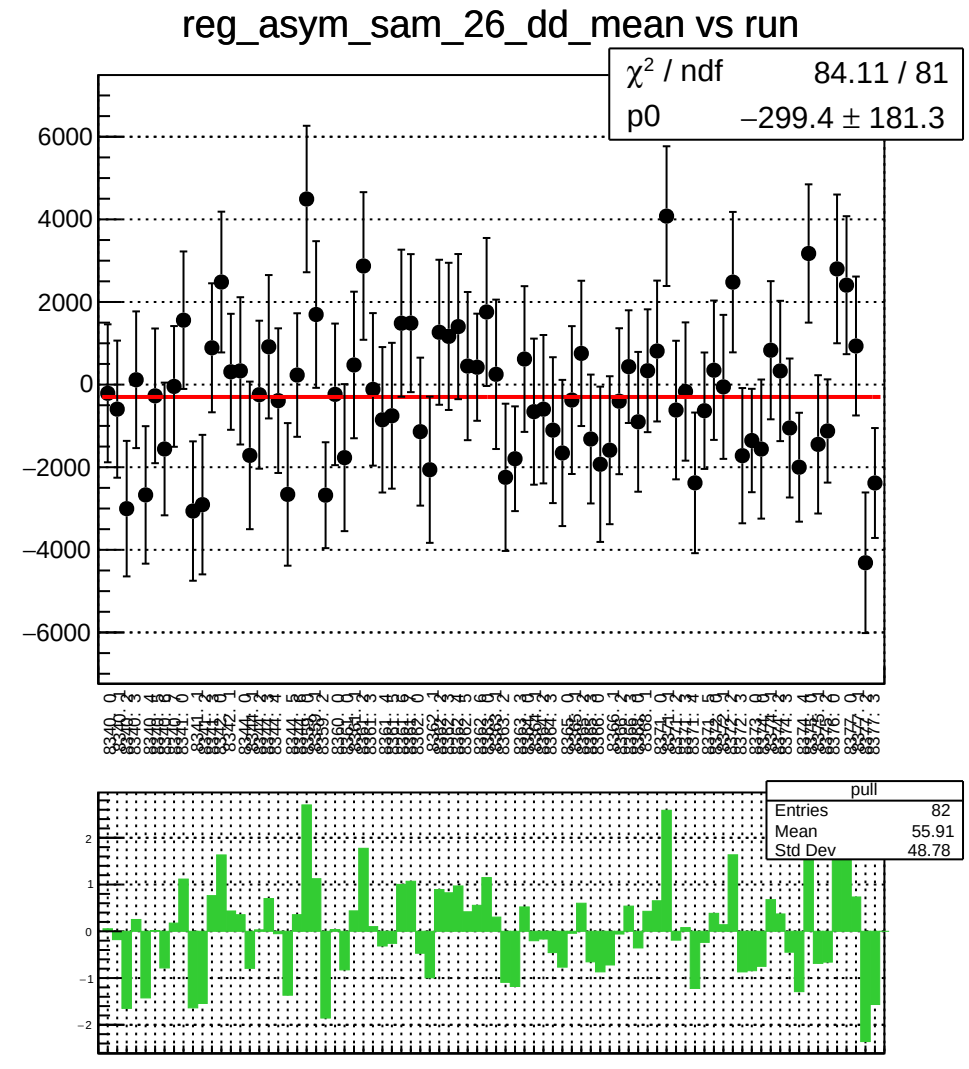

pull1D
Entries 82
Mean −0.00393
Std Dev 0.9936

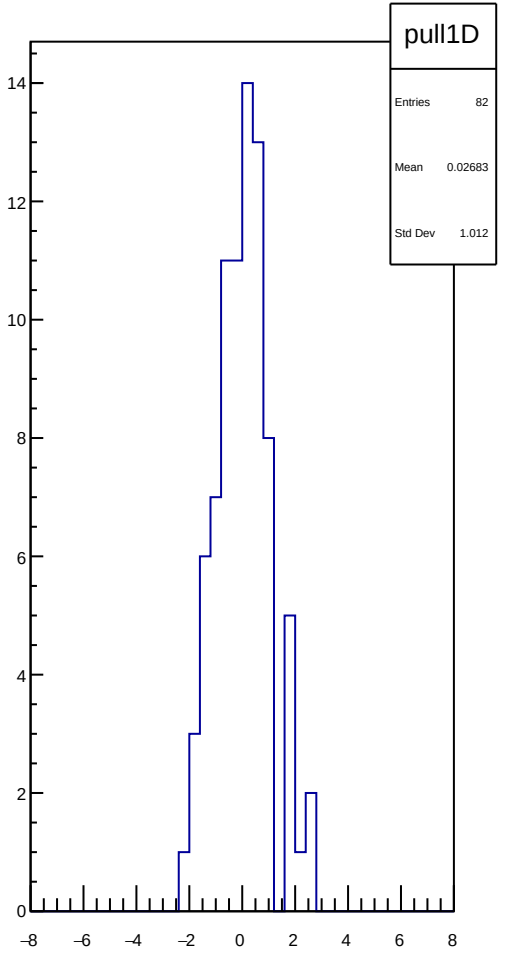

asym_sam_15_dd_correction_rms vs run
χ² / ndf 6694 / 81
p0 642 ± 0.5034
750
700
650
600
550

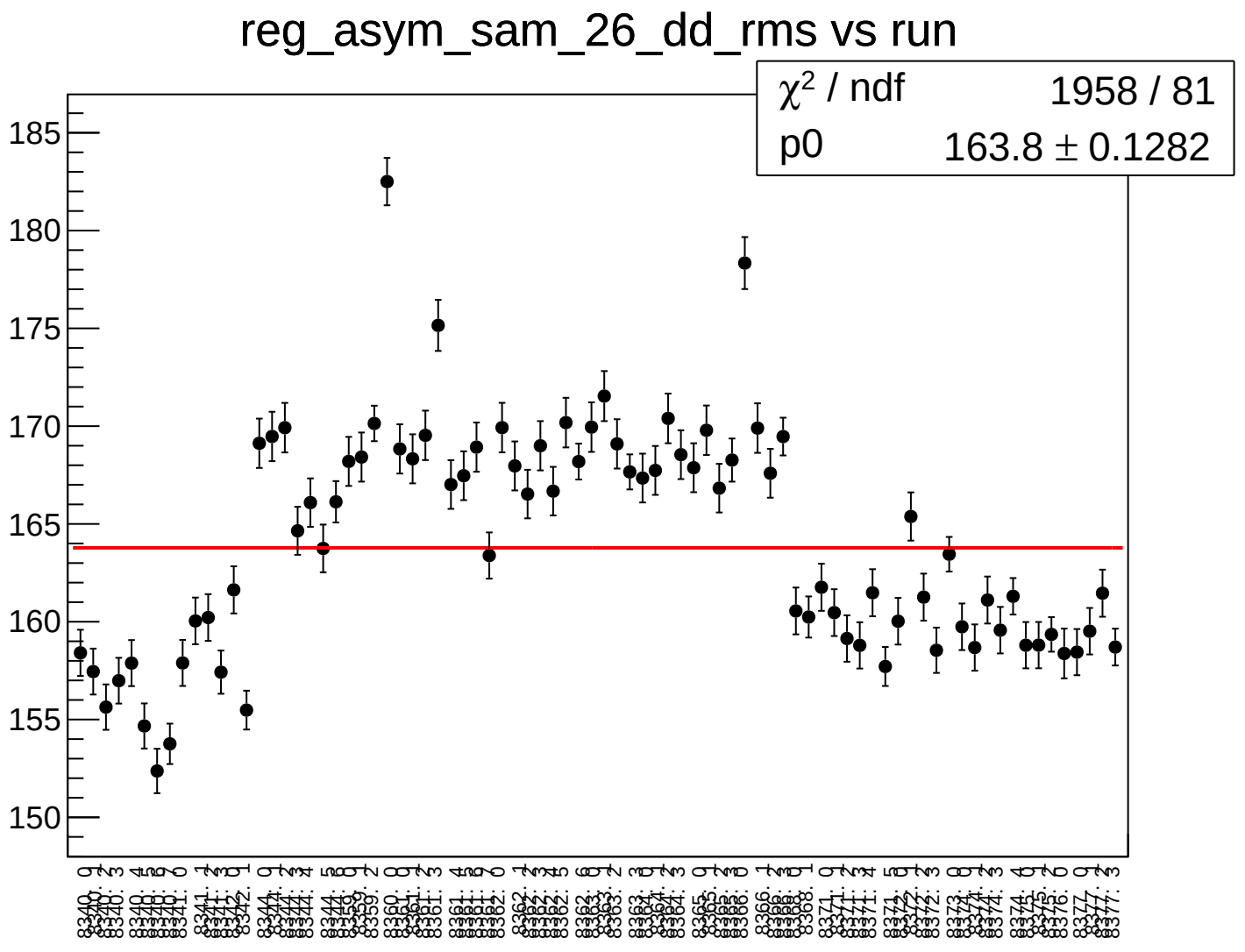

asym_sam_15_dd_mean vs run
χ² / ndf 79.36 / 81
p0 −1737 ± 718
pull
Entries 82
Mean 137.6
Std Dev 153.2

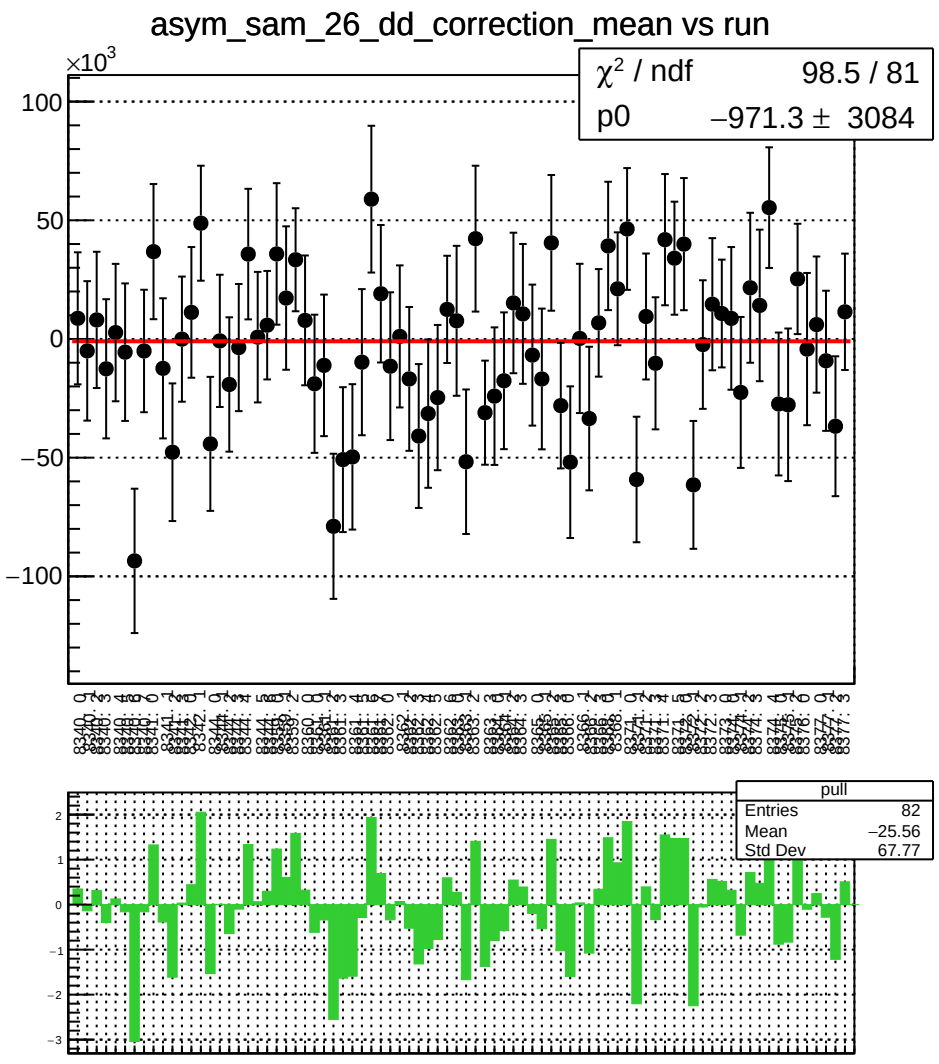

pull1D
Entries 82
Mean 0.006134
Std Dev 0.9837

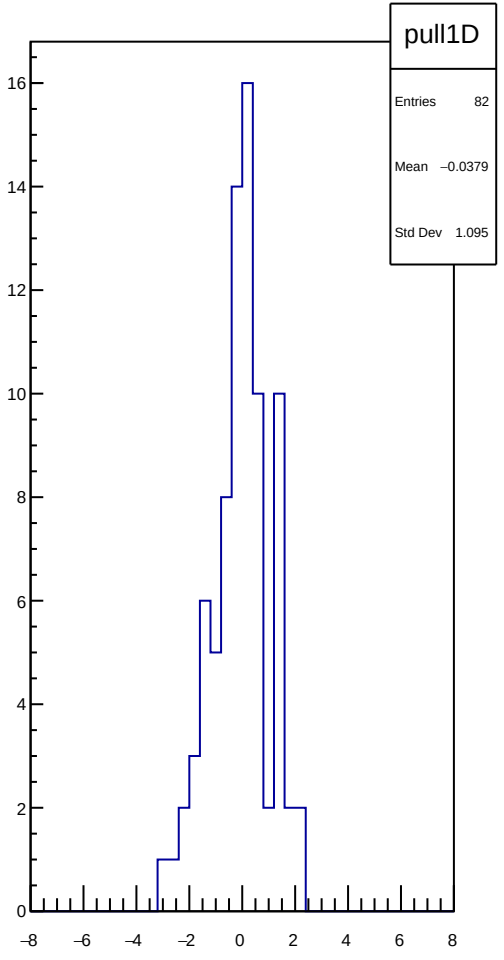

asym_sam_15_dd_rms vs run
χ² / ndf 6539 / 81
p0 647.5 ± 0.5077
750
700
650
600
550

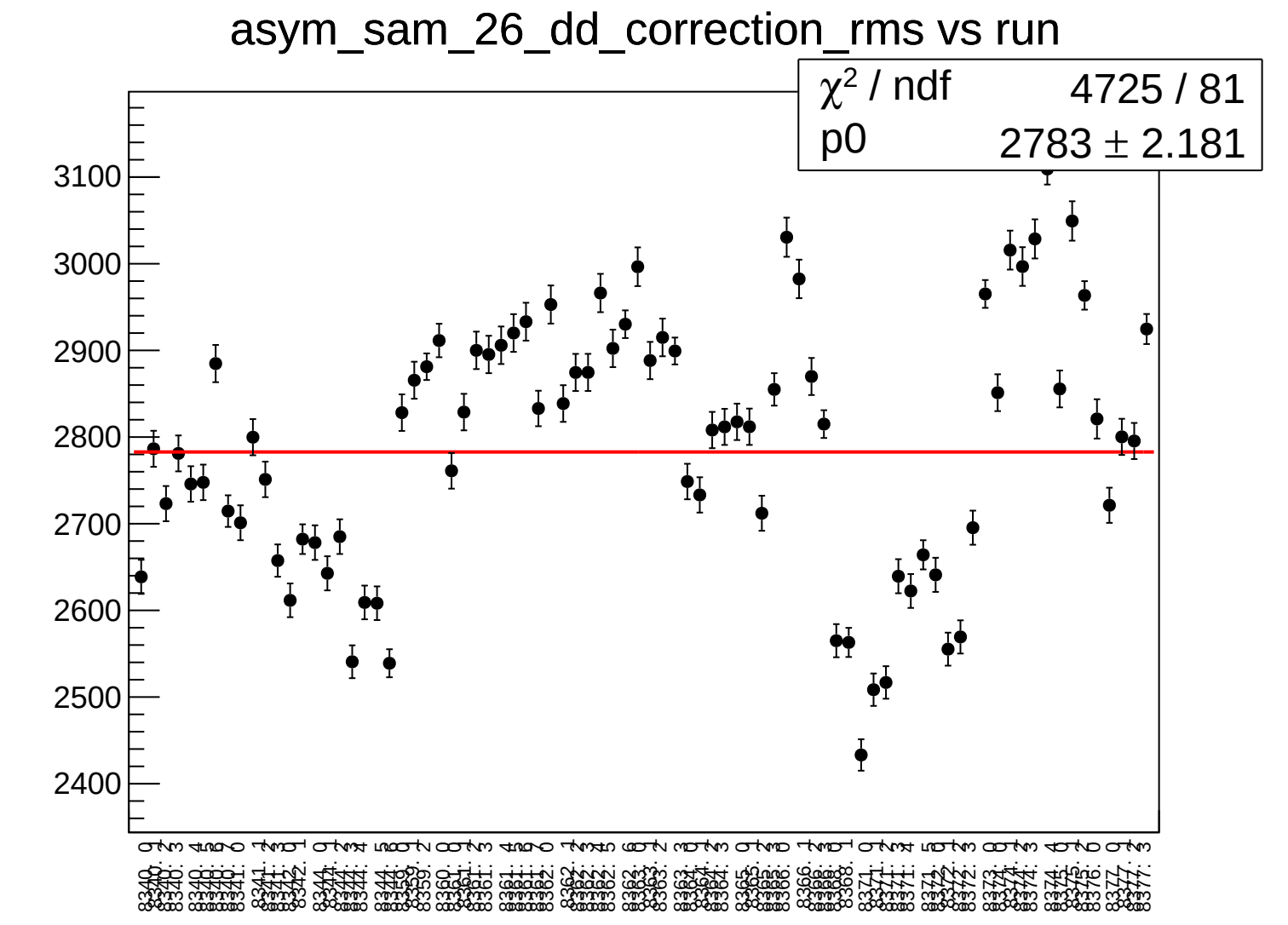

reg_asym_sam_26_dd_mean vs run
χ² / ndf 84.11 / 81
p0 −299.4 ± 181.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean 55.91
Std Dev 48.78
2
1
0
−1
−2

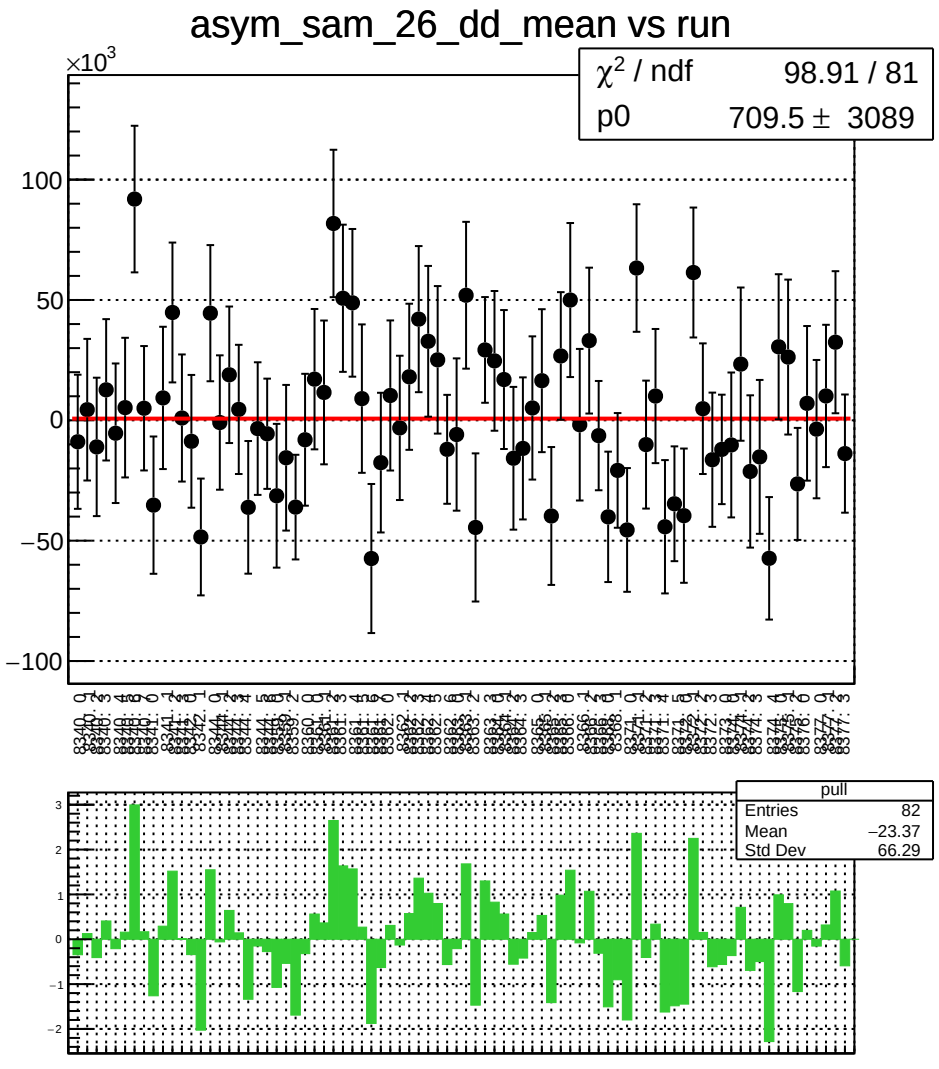

pull1D
Entries 82
Mean 0.02683
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

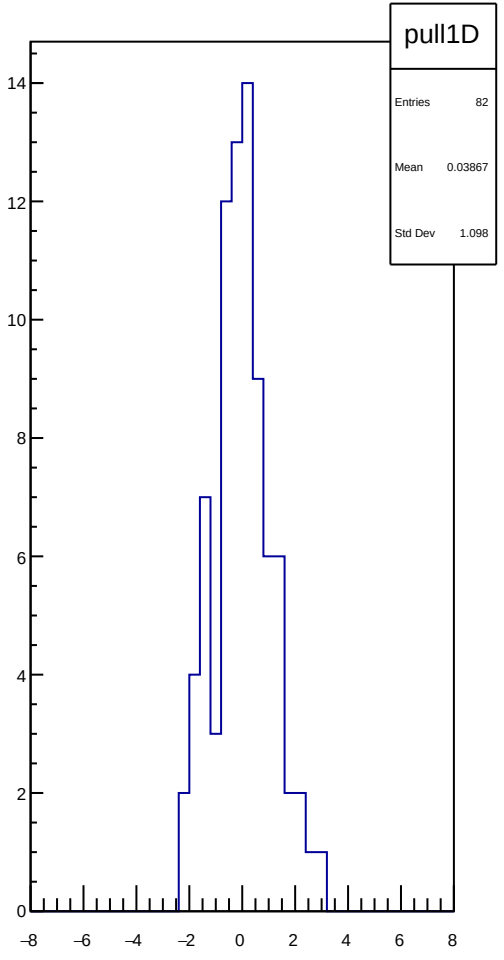

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1958 / 81
p0 163.8 ± 0.1282
185
180
175
170
165
160
155
150

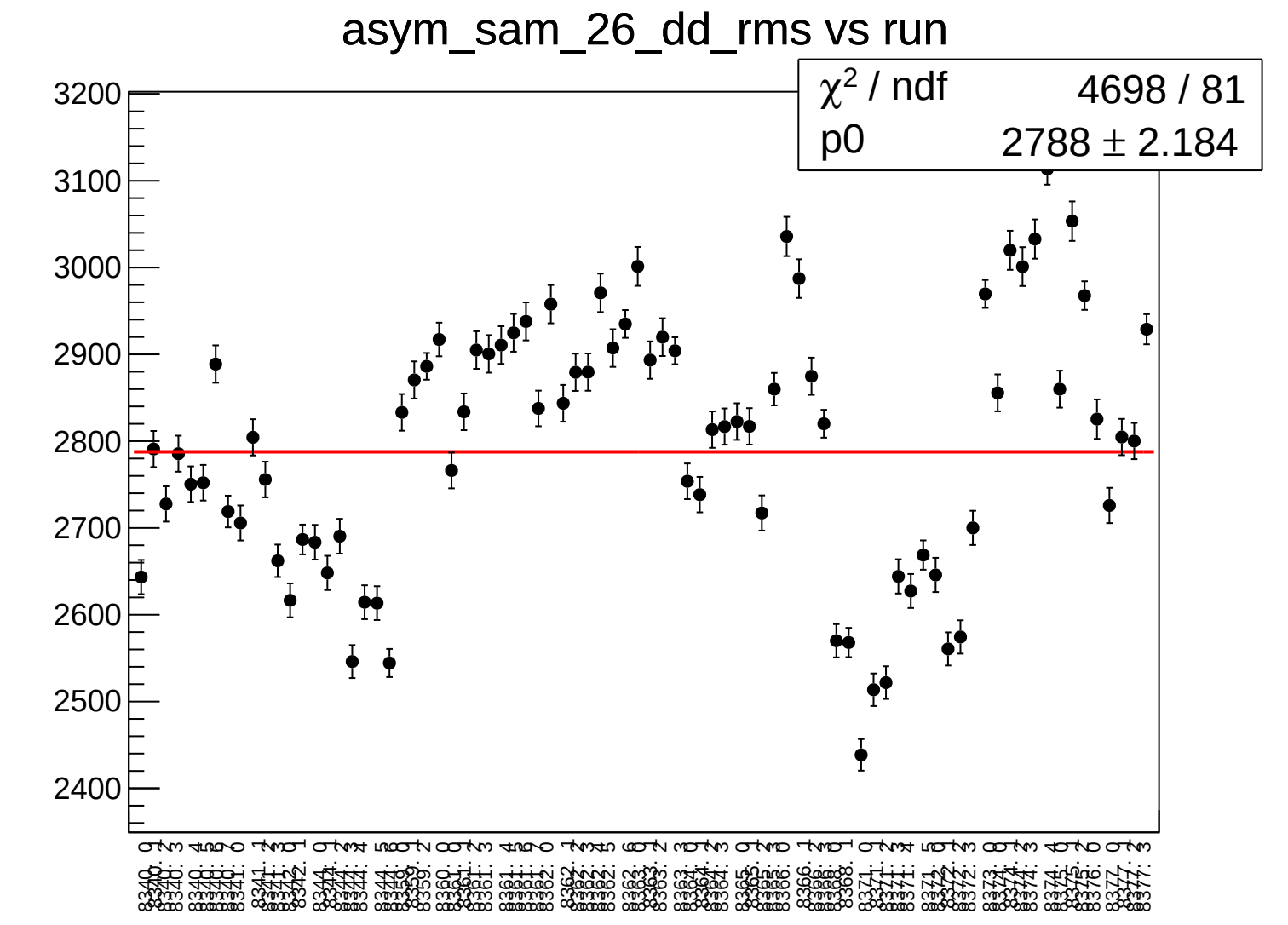

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 98.5 / 81
p0 −971.3 ± 3084
100
50
0
−50
−100
pull
Entries 82
Mean −25.56
Std Dev 67.77
2
1
0
−1
−2
−3

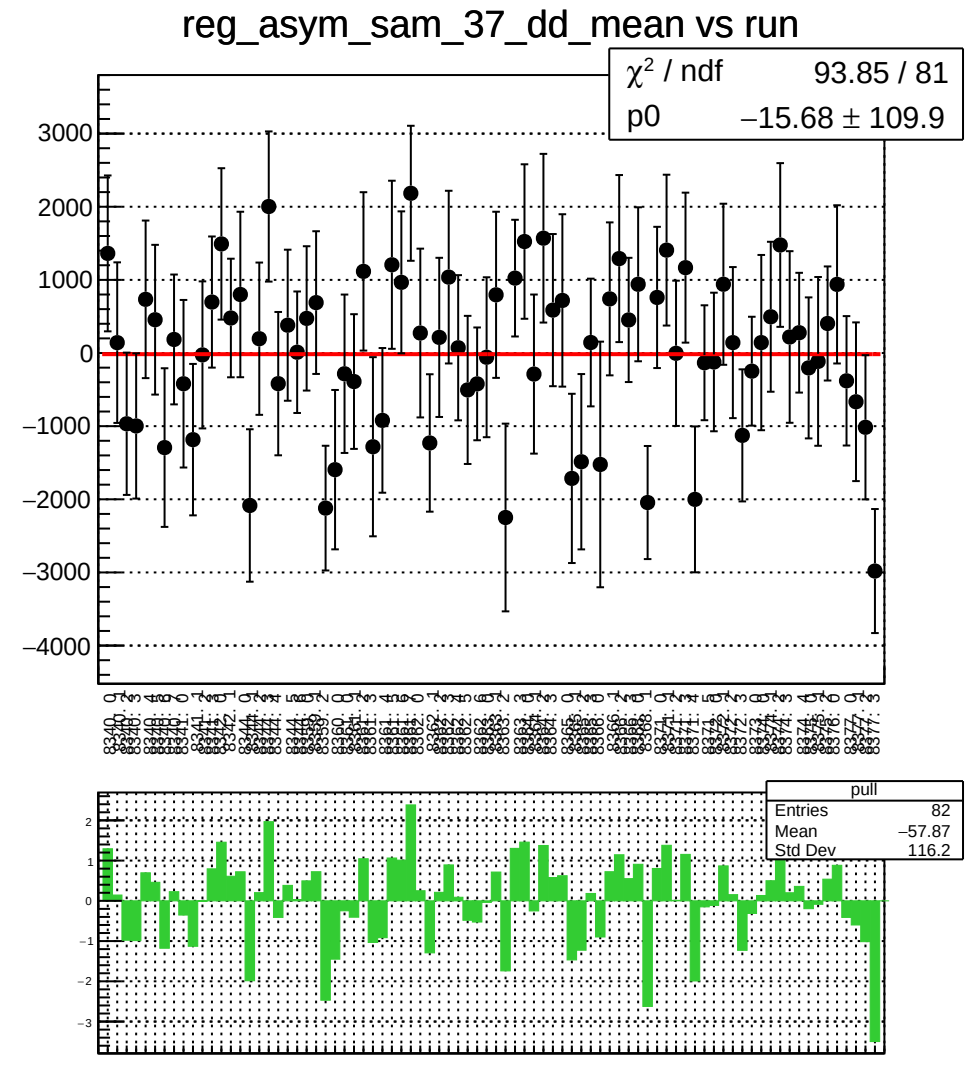

pull1D
Entries 82
Mean −0.0379
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

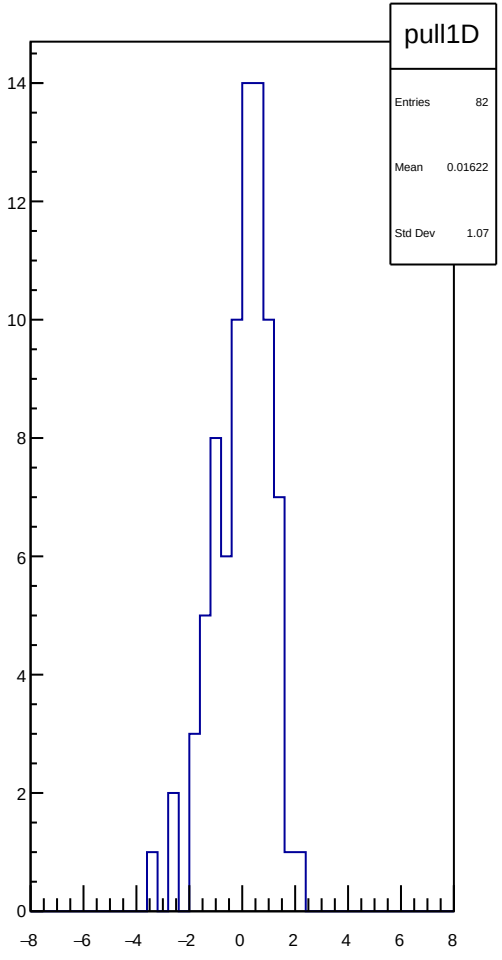

asym_sam_26_dd_correction_rms vs run
χ² / ndf 4725 / 81
p0 2783 ± 2.181
3100
3000
2900
2800
2700
2600
2500
2400

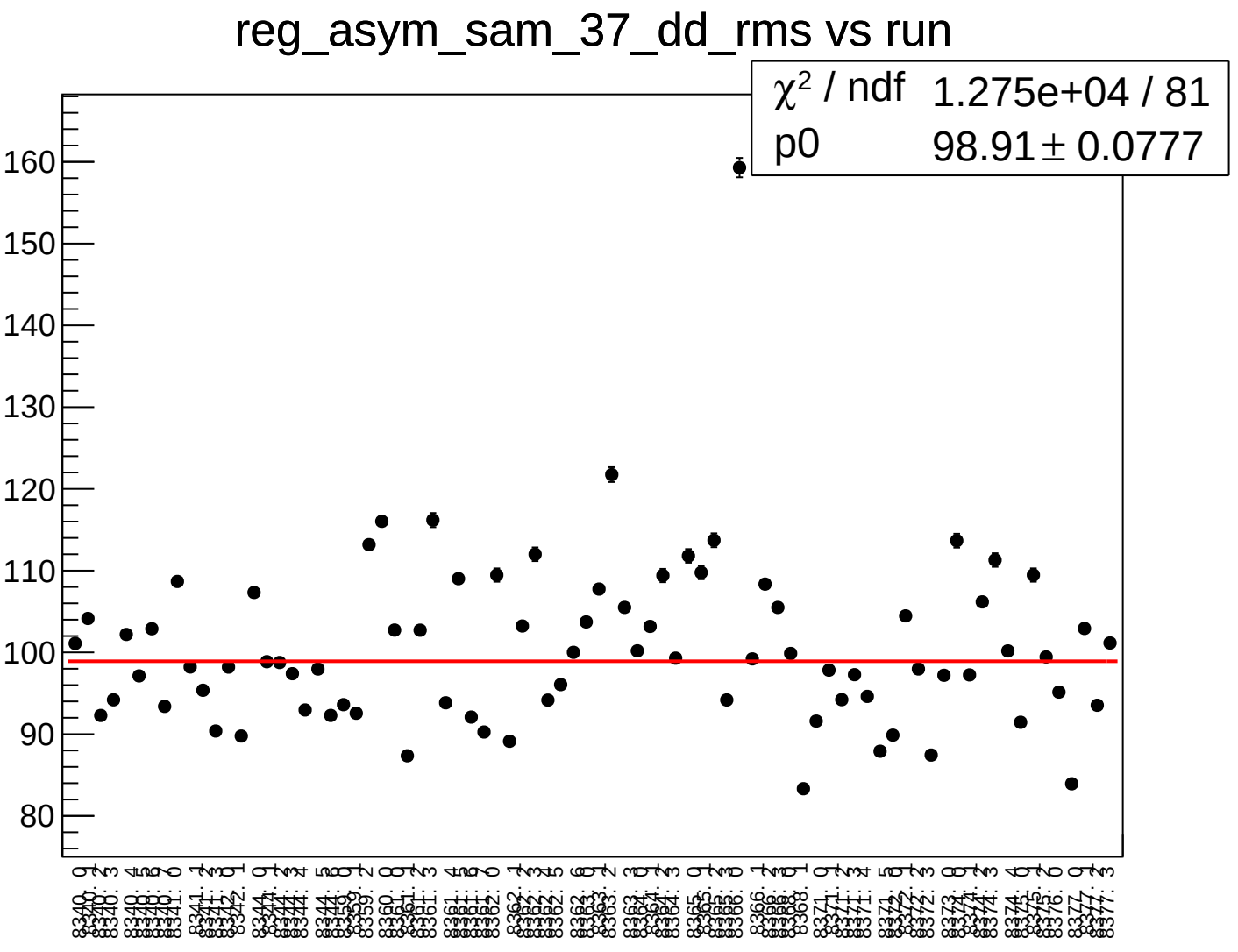

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 98.91 / 81
p0 709.5 ± 3089
100
50
0
−50
−100
pull
Entries 82
Mean −23.37
Std Dev 66.29
3
2
1
0
−1
−2

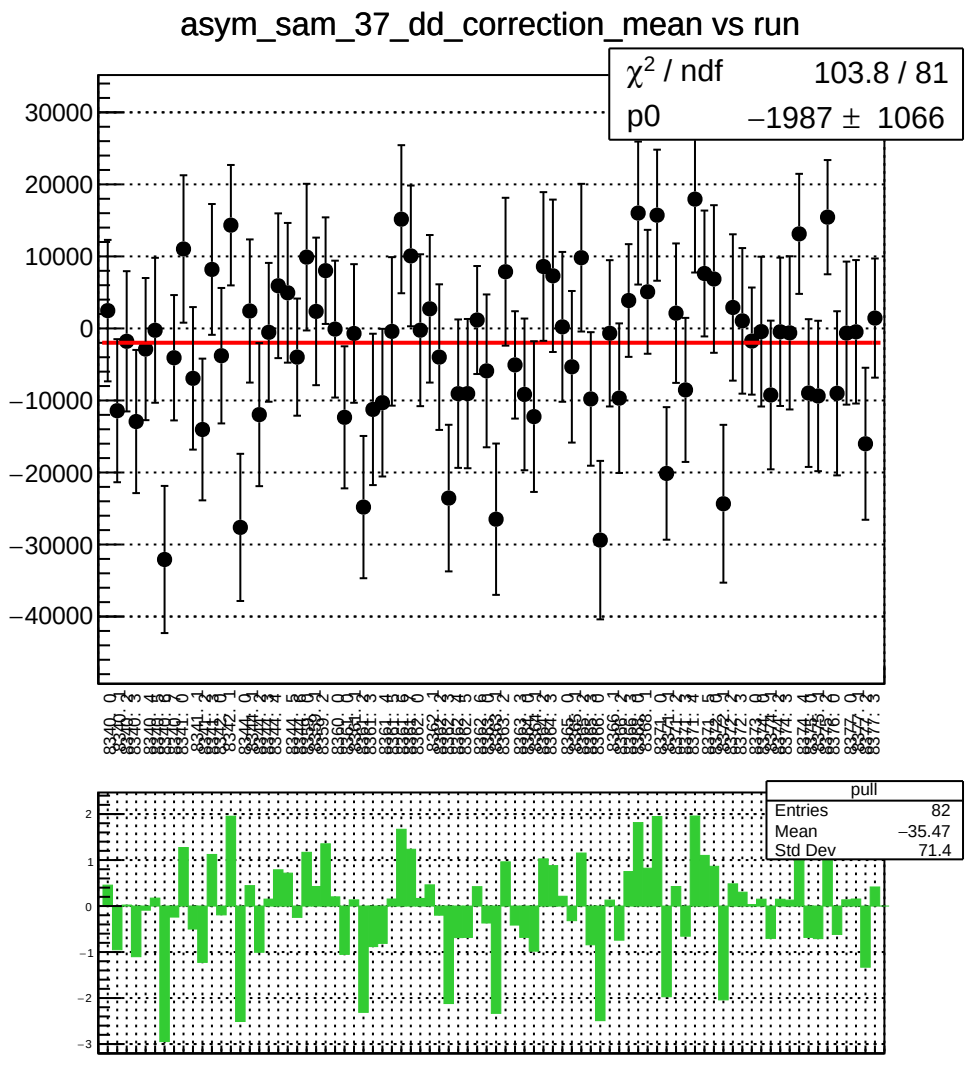

pull1D
Entries 82
Mean 0.03867
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

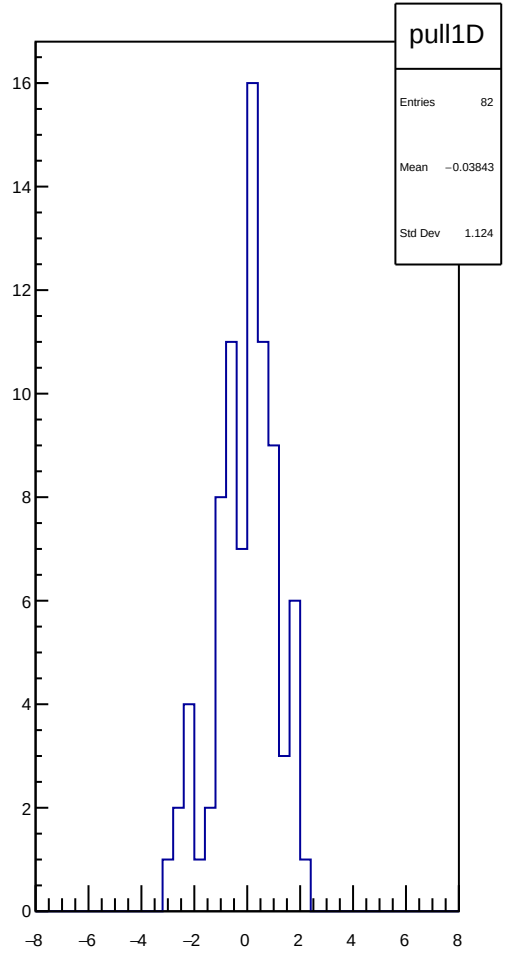

asym_sam_26_dd_rms vs run
χ² / ndf 4698 / 81
p0 2788 ± 2.184
3200
3100
3000
2900
2800
2700
2600
2500
2400

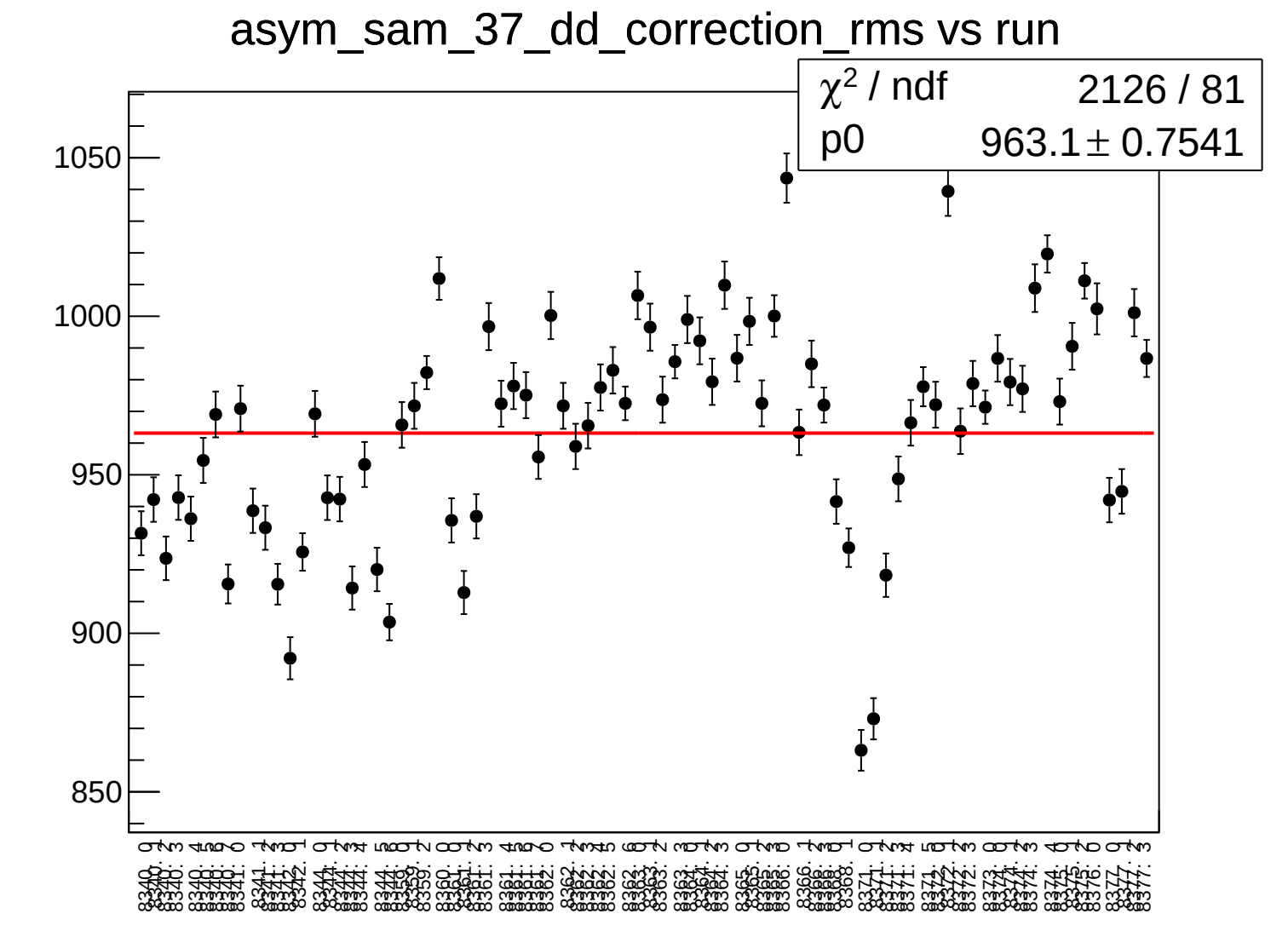

reg_asym_sam_37_dd_mean vs run
χ² / ndf 93.85 / 81
p0 −15.68 ± 109.9
pull
Entries 82
Mean −57.87
Std Dev 116.2

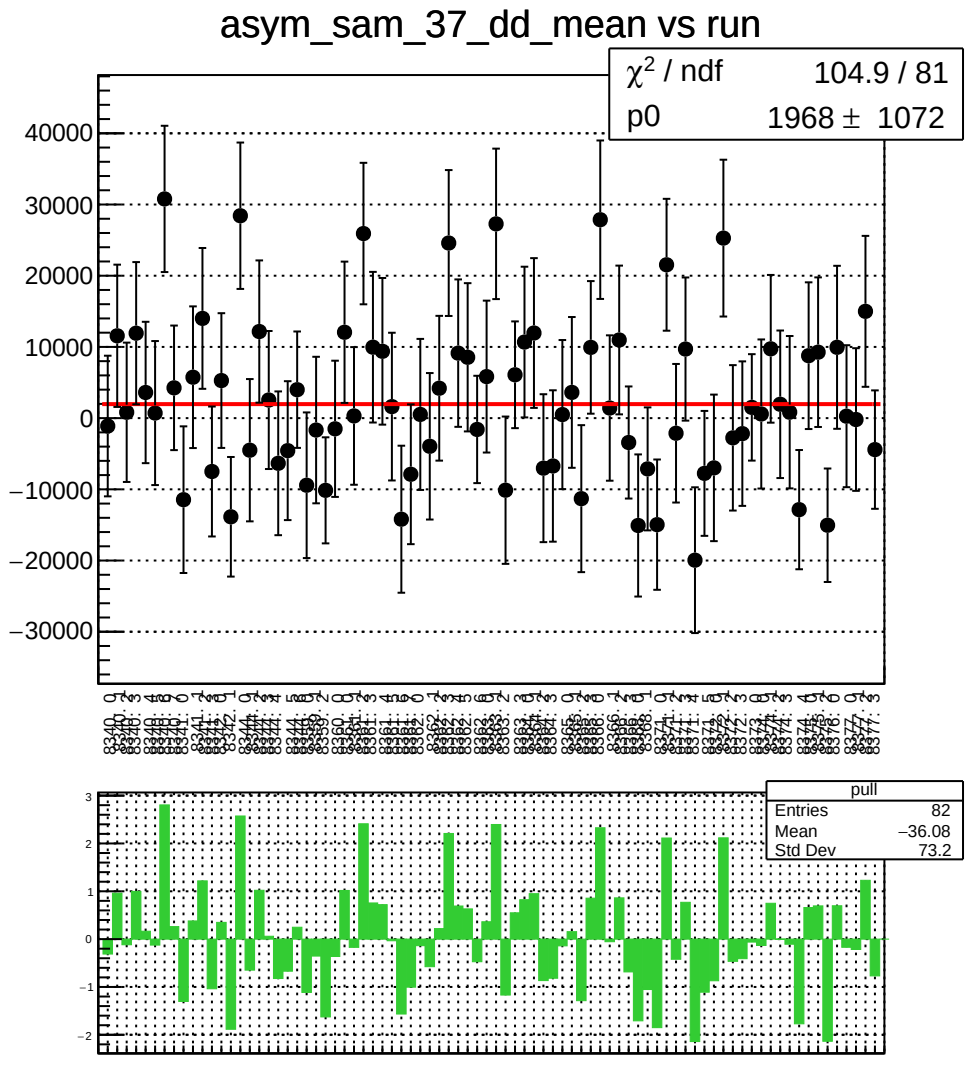

pull1D
Entries 82
Mean 0.01622
Std Dev 1.07

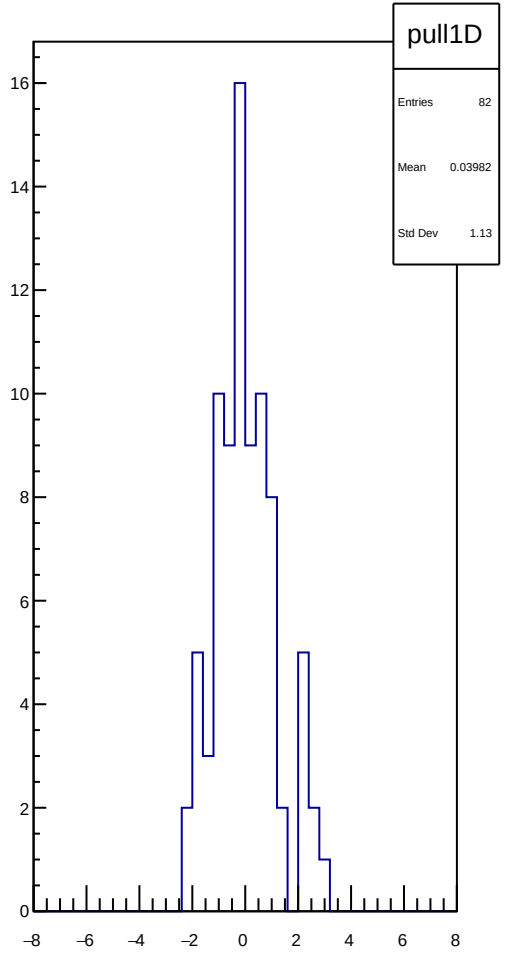

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.275e+04 / 81
p0 98.91 ± 0.0777
160
150
140
130
120
110
100
90
80

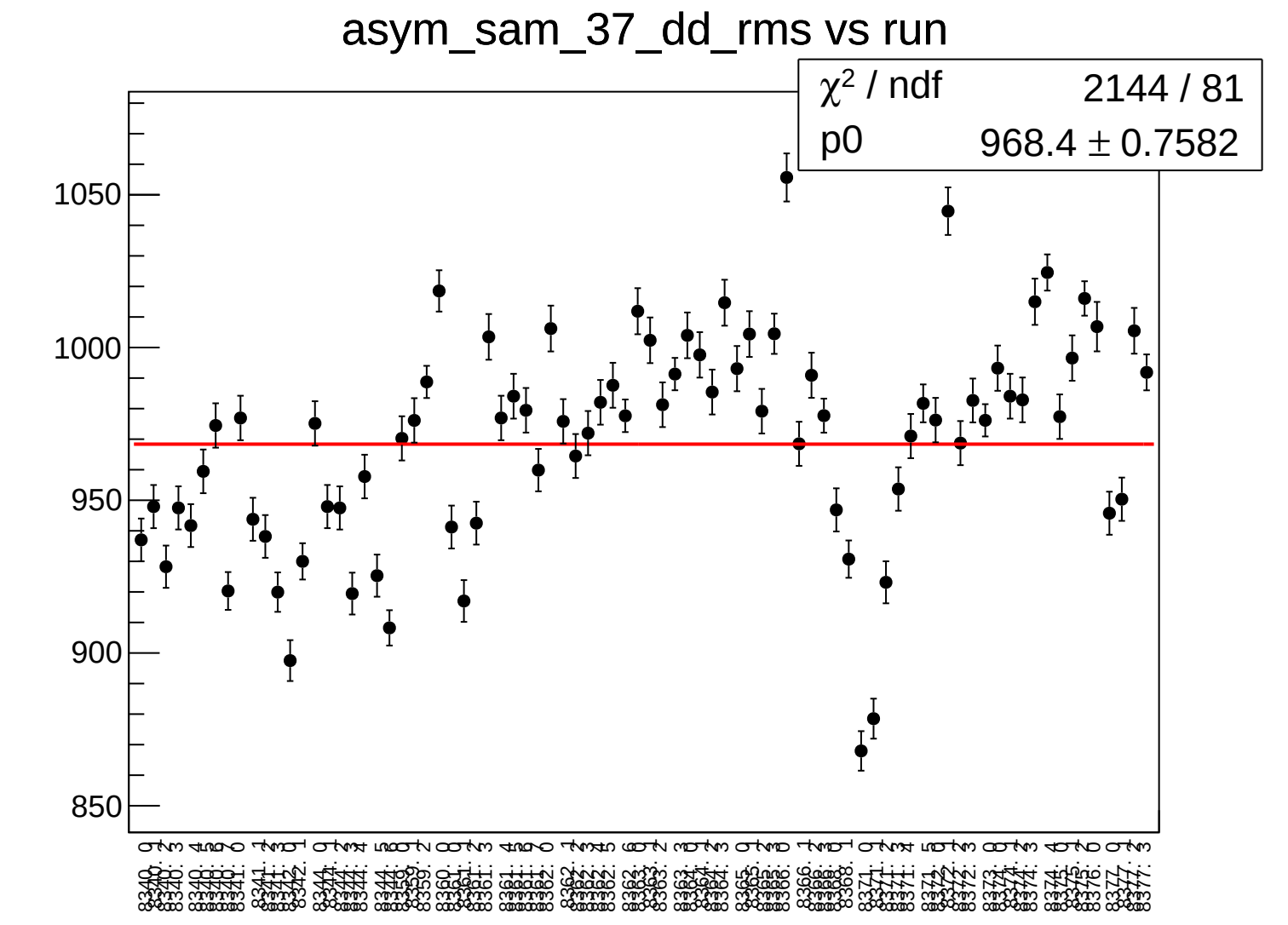

asym_sam_37_dd_correction_mean vs run
χ² / ndf 103.8 / 81
p0 −1987 ± 1066
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean −35.47
Std Dev 71.4
2
1
0
−1
−2
−3

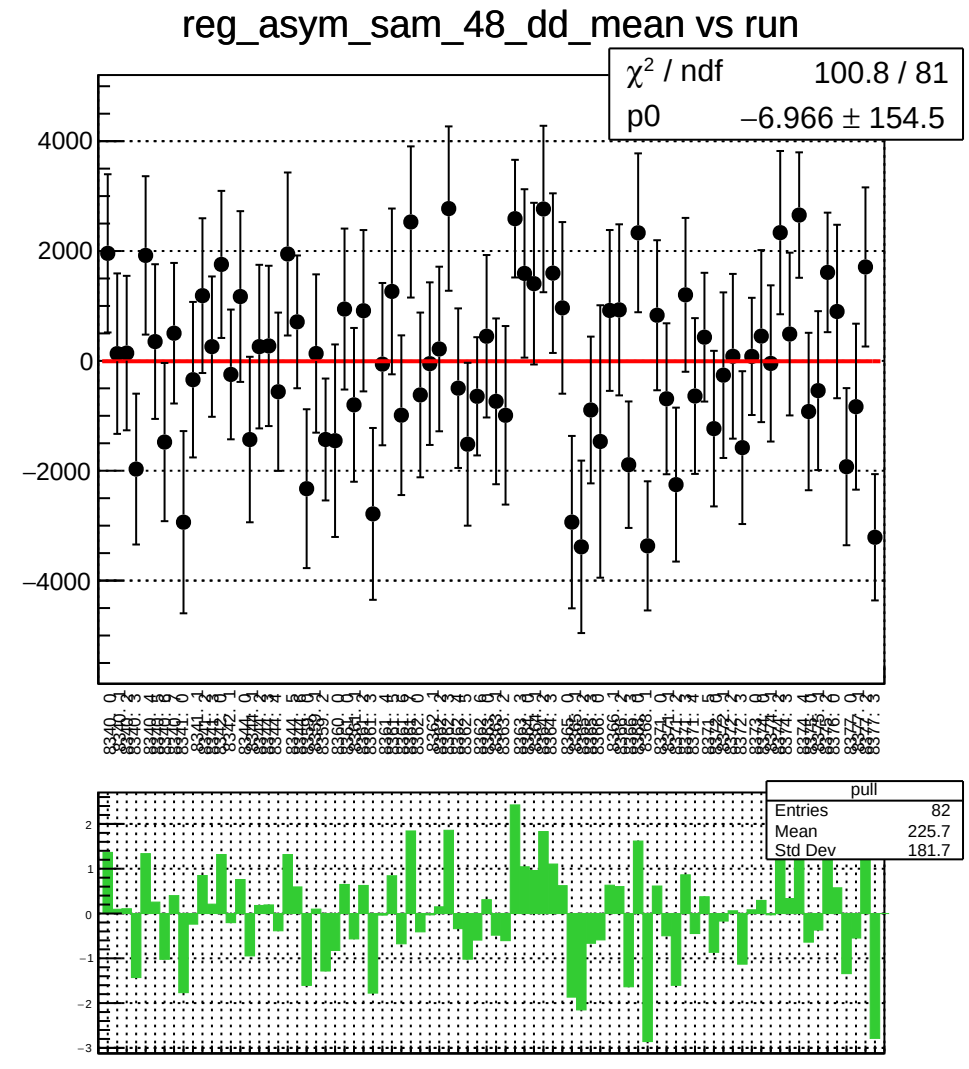

pull1D
Entries 82
Mean −0.03843
Std Dev 1.124
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

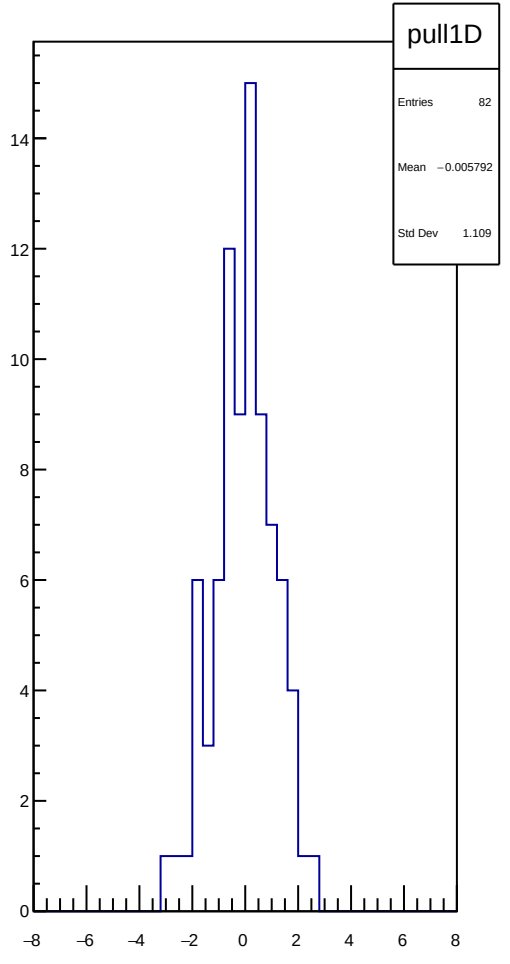

asym_sam_37_dd_correction_rms vs run
χ² / ndf 2126 / 81
p0 963.1 ± 0.7541
1050
1000
950
900
850

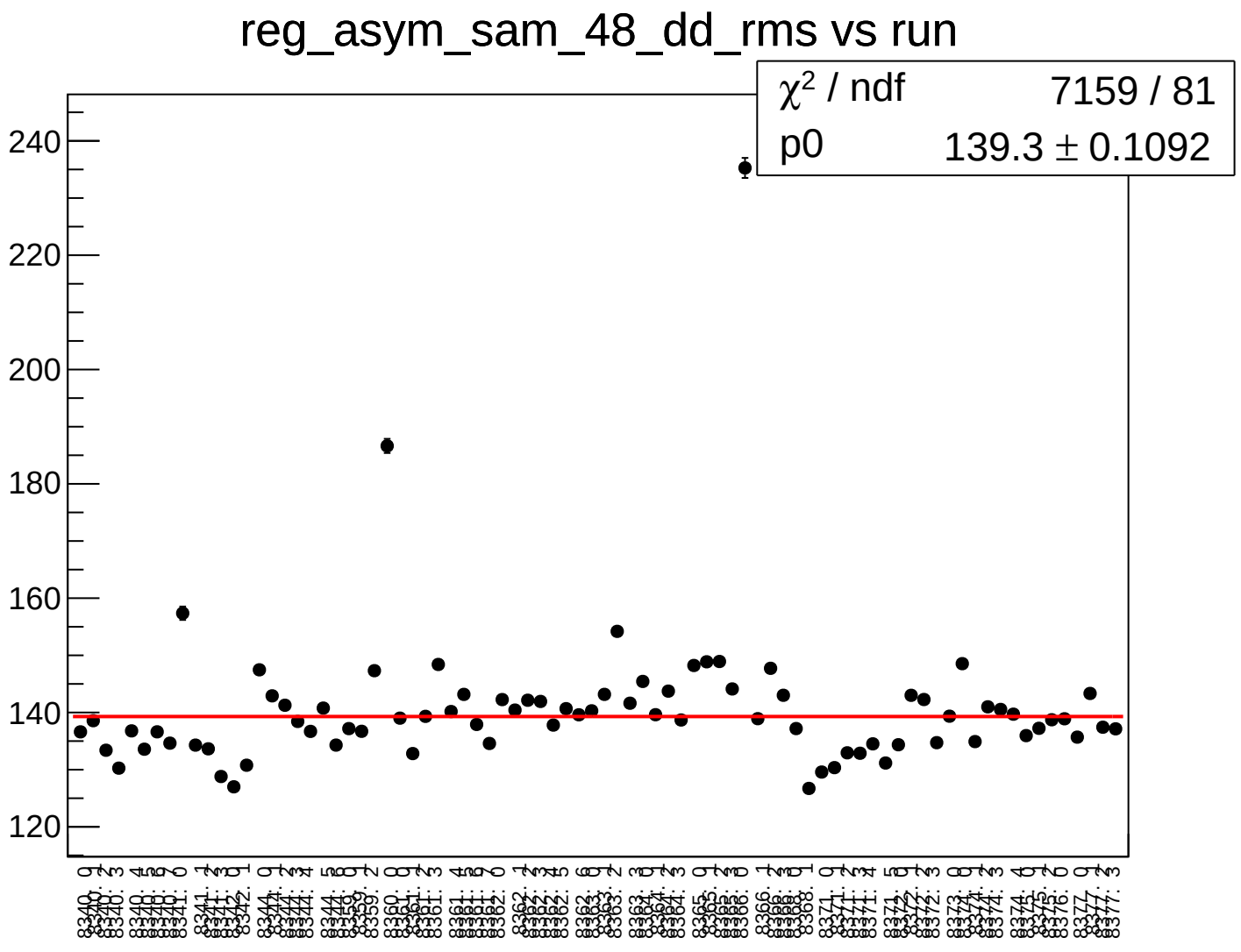

asym_sam_37_dd_mean vs run
χ² / ndf 104.9 / 81
p0 1968 ± 1072
pull
Entries 82
Mean −36.08
Std Dev 73.2

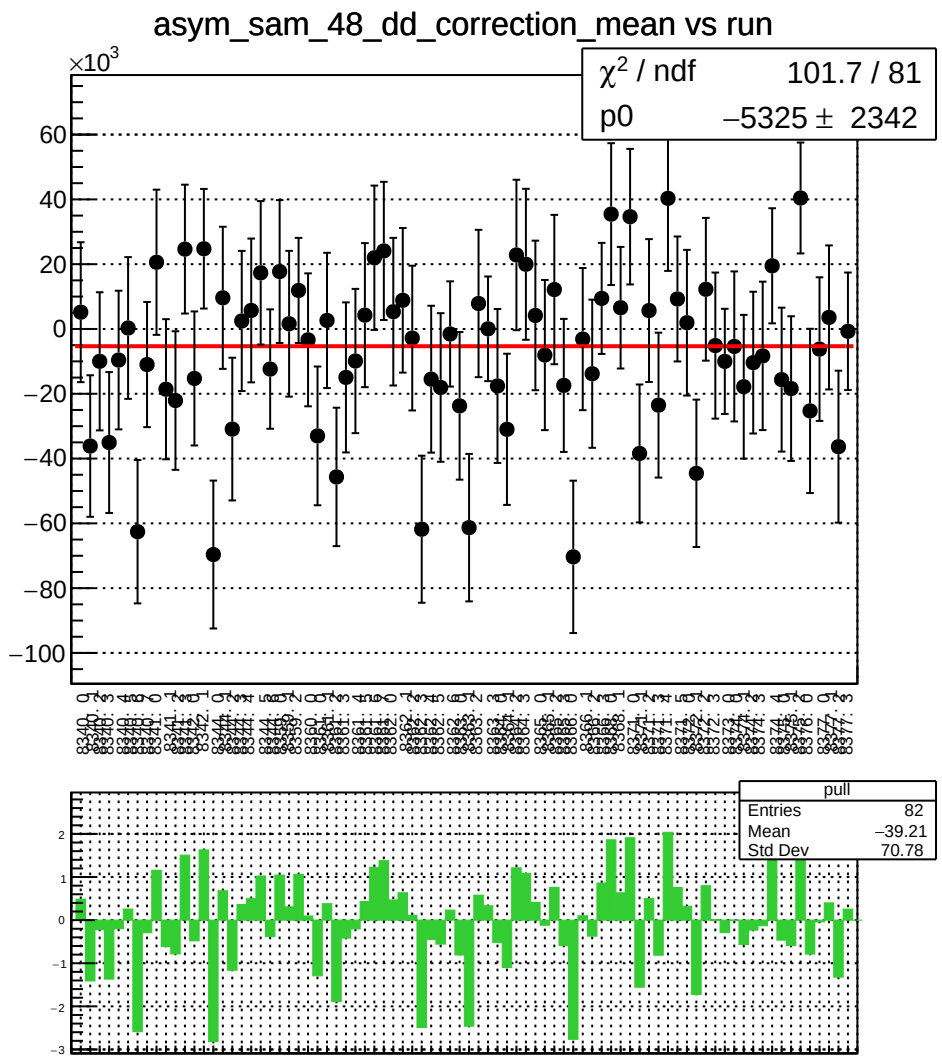

pull1D
Entries 82
Mean 0.03982
Std Dev 1.13

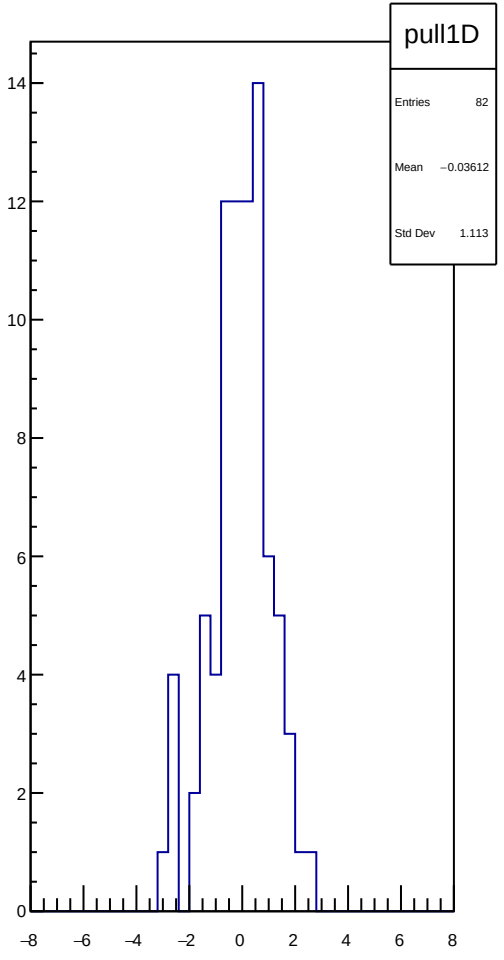

asym_sam_37_dd_rms vs run
χ² / ndf 2144 / 81
p0 968.4 ± 0.7582
1050
1000
950
900
850

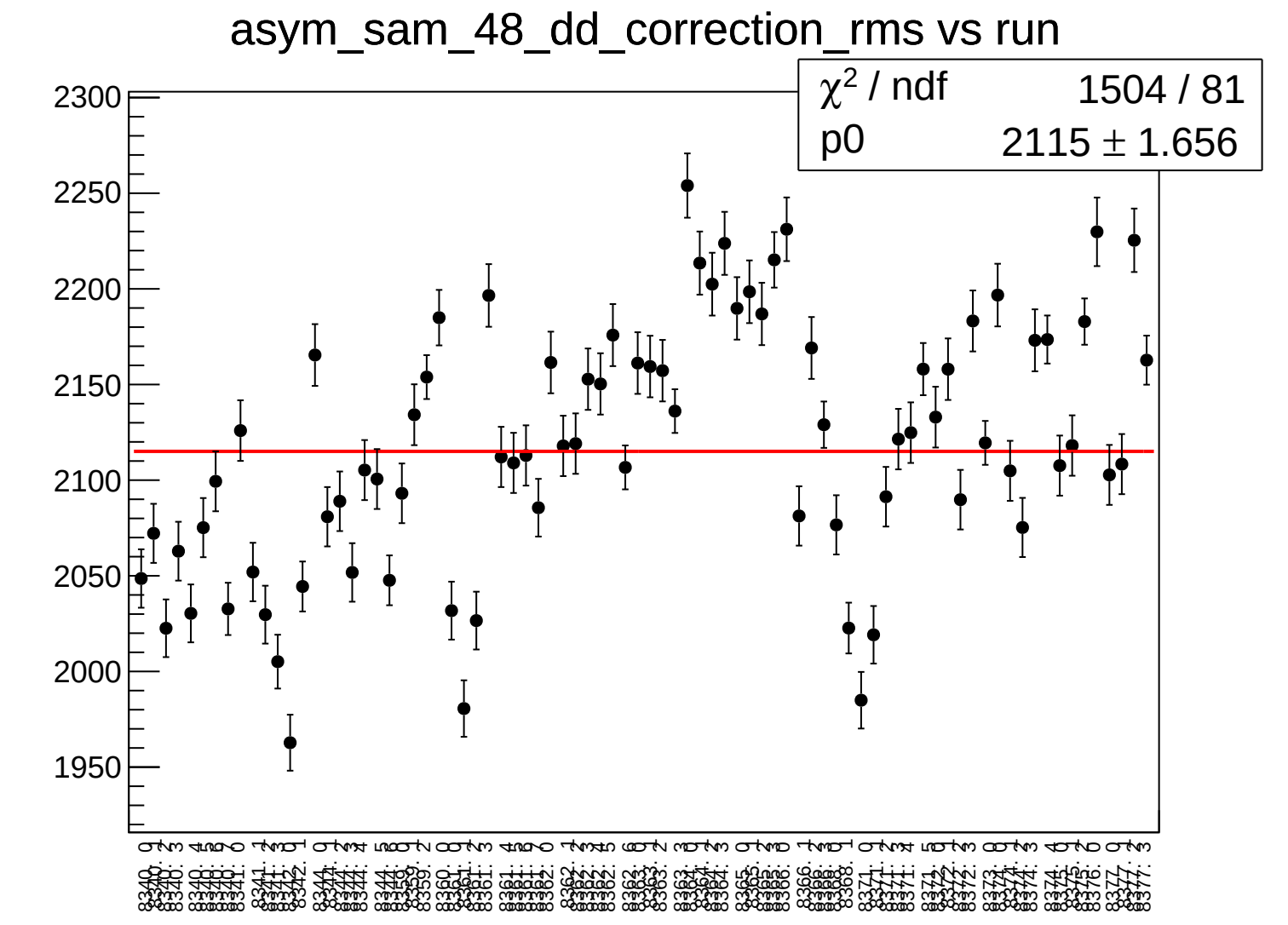

reg_asym_sam_48_dd_mean vs run
χ² / ndf 100.8 / 81
p0 −6.966 ± 154.5
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 225.7
Std Dev 181.7
2
1
0
−1
−2
−3

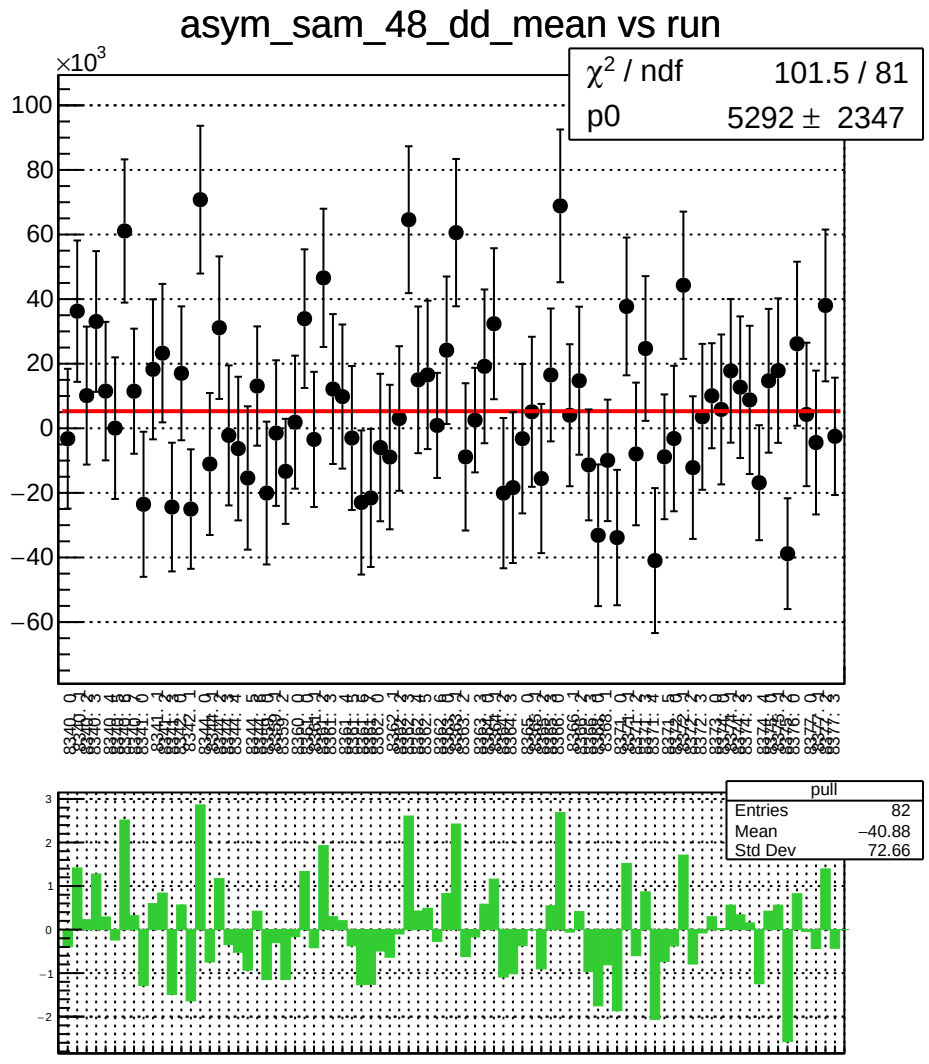

pull1D
Entries 82
Mean −0.005792
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

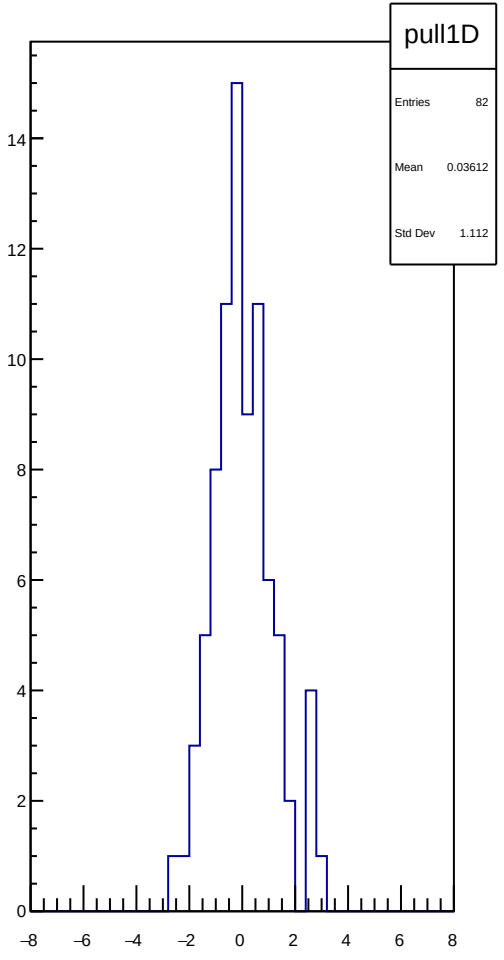

reg_asym_sam_48_dd_rms vs run
χ² / ndf 7159 / 81
p0 139.3 ± 0.1092
240
220
200
180
160
140
120

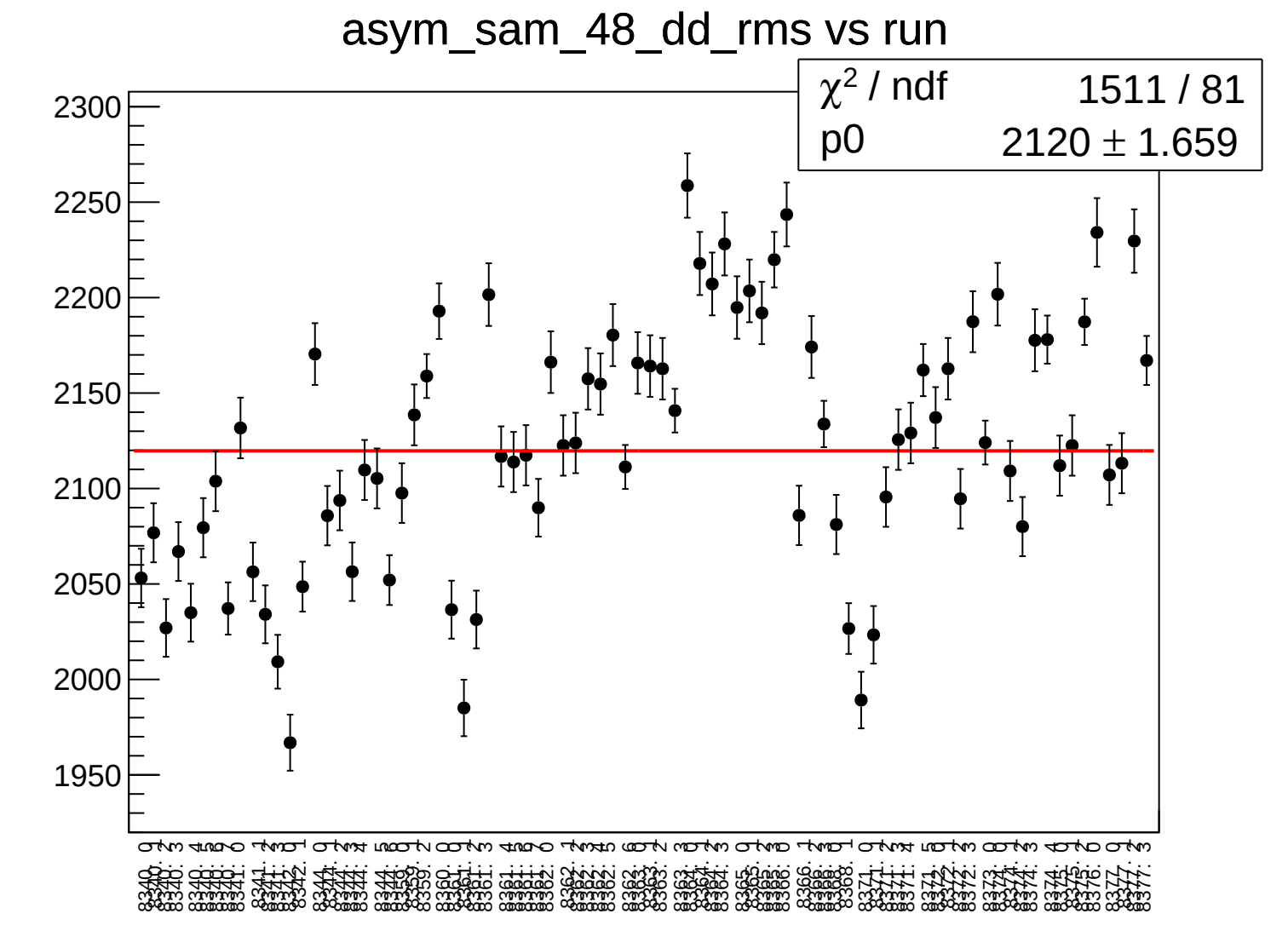

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 101.7 / 81
p0 −5325 ± 2342
pull
Entries 82
Mean −39.21
Std Dev 70.78

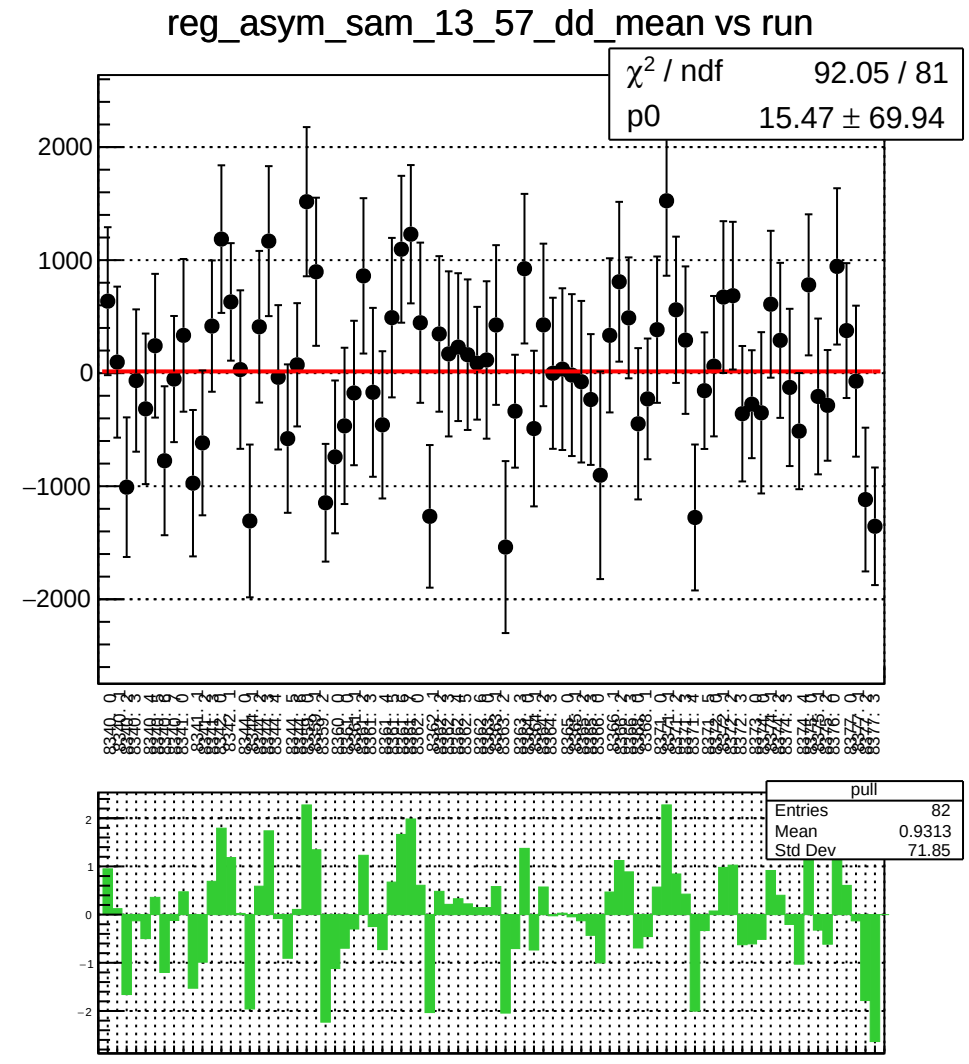

pull1D
Entries 82
Mean −0.03612
Std Dev 1.113

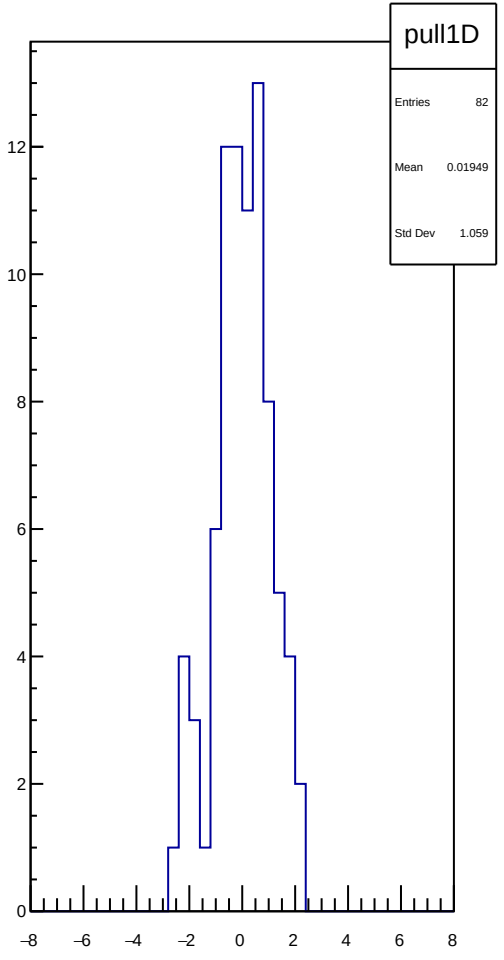

asym_sam_48_dd_correction_rms vs run
χ² / ndf 1504 / 81
p0 2115 ± 1.656
2300
2250
2200
2150
2100
2050
2000
1950

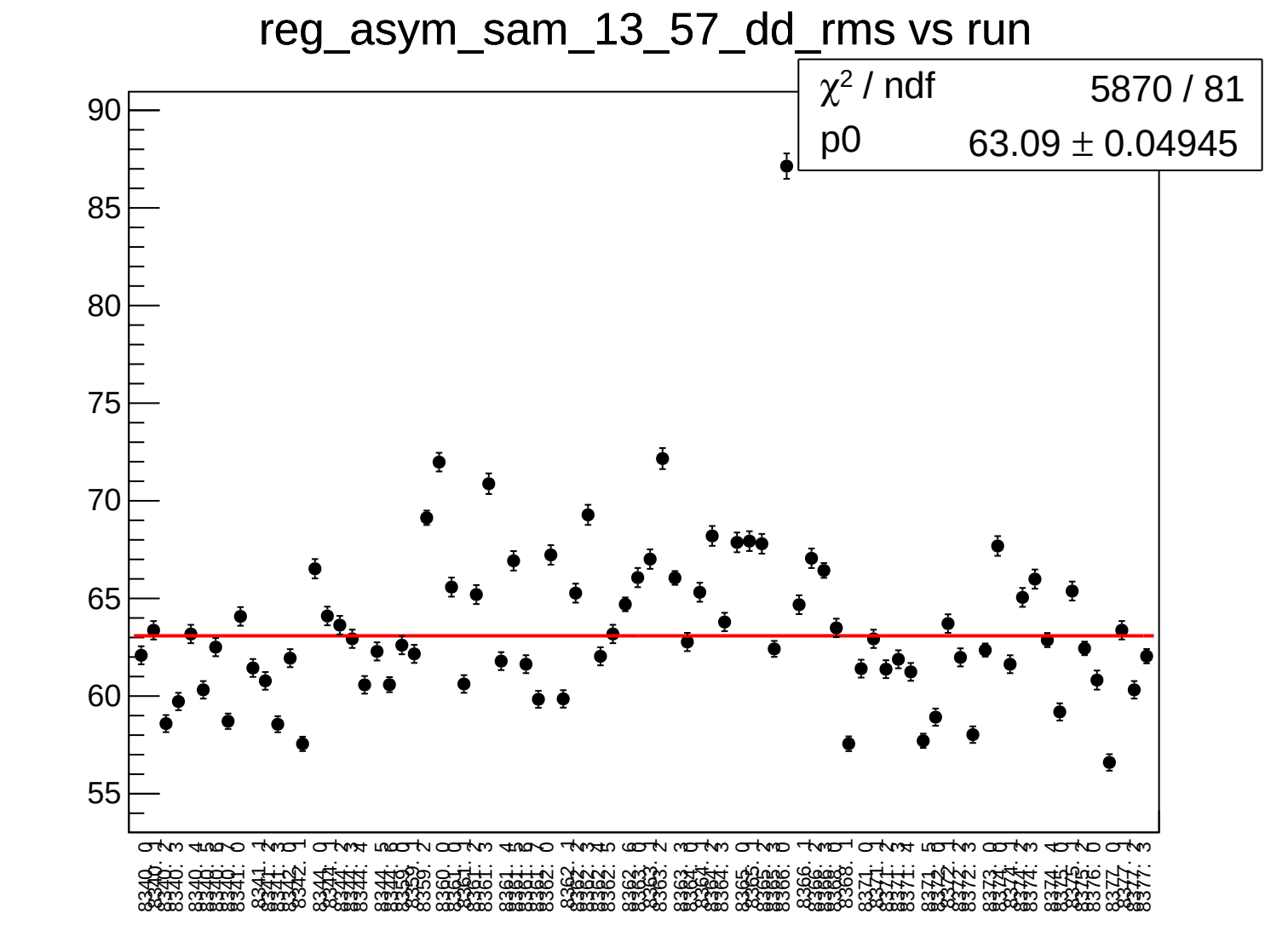

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 101.5 / 81
p0 5292 ± 2347
pull
Entries 82
Mean −40.88
Std Dev 72.66

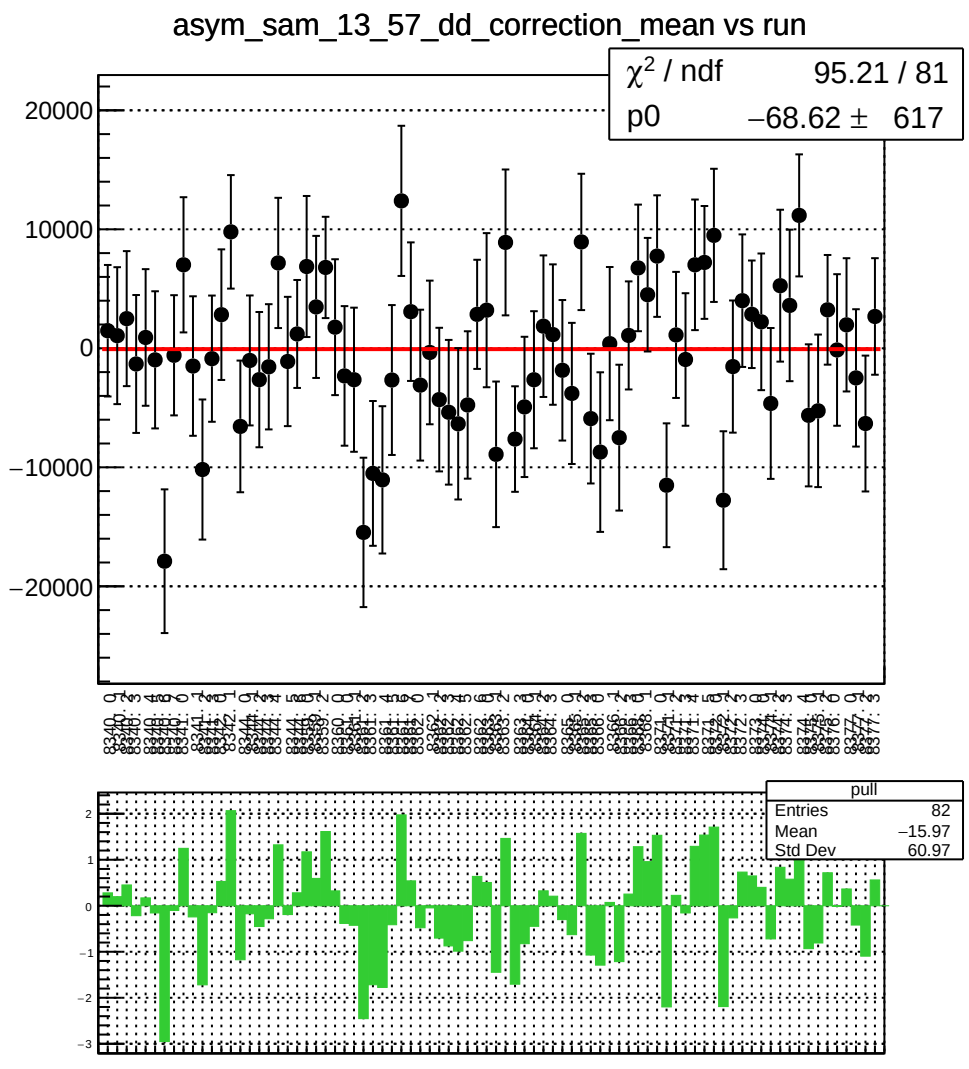

pull1D
Entries 82
Mean 0.03612
Std Dev 1.112

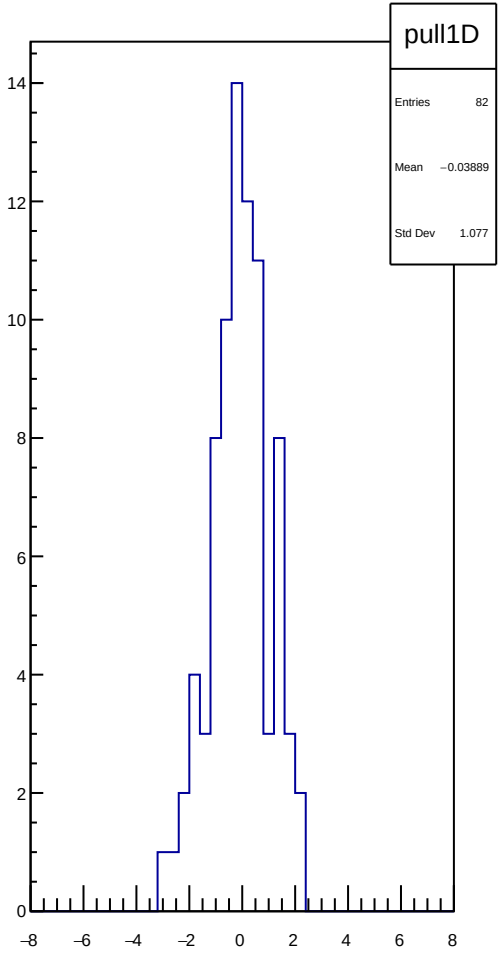

asym_sam_48_dd_rms vs run
χ² / ndf 1511 / 81
p0 2120 ± 1.659
2300
2250
2200
2150
2100
2050
2000
1950

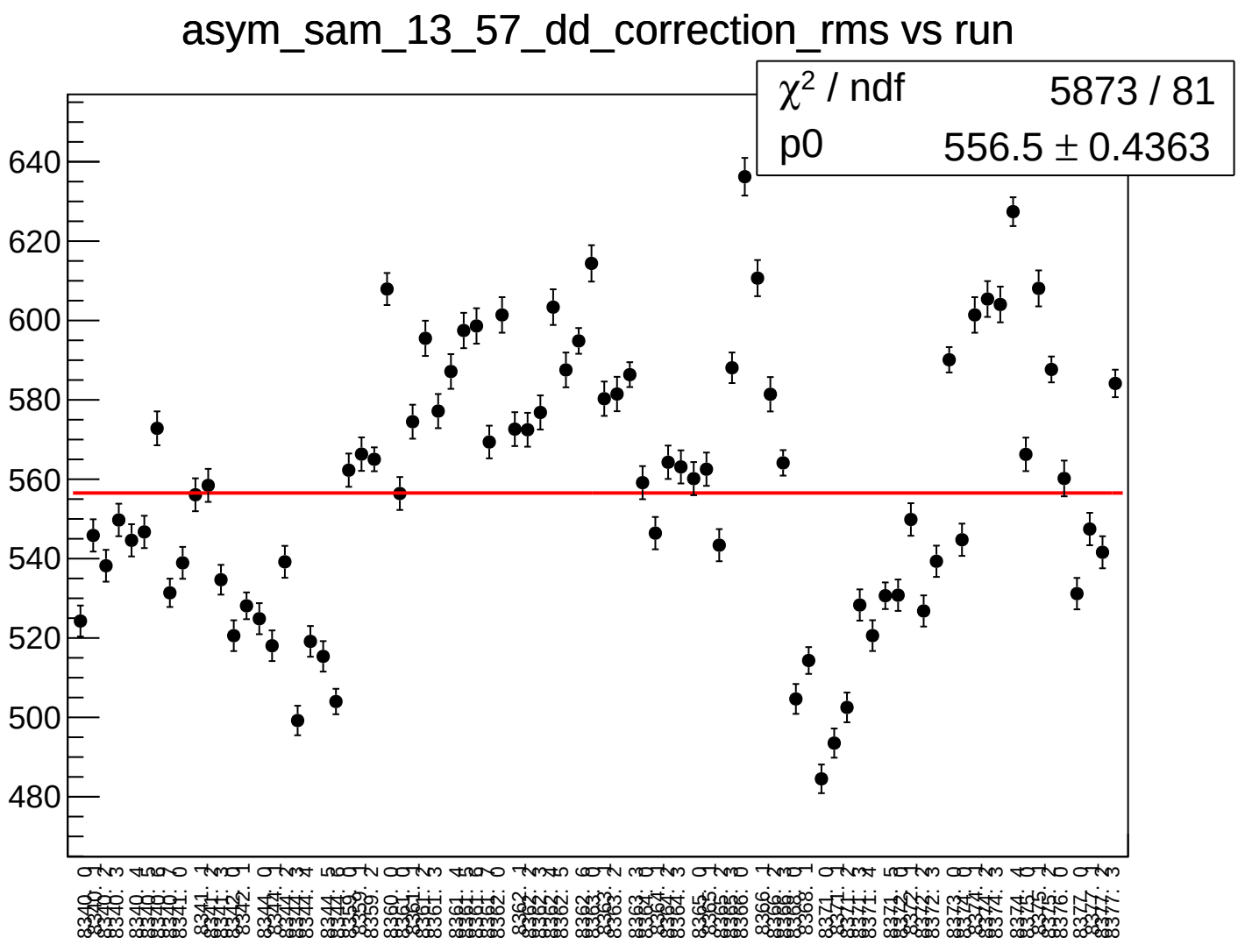

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 92.05 / 81
p0 15.47 ± 69.94
2000
1000
0
−1000
−2000
pull
Entries 82
Mean 0.9313
Std Dev 71.85
2
1
0
−1
−2

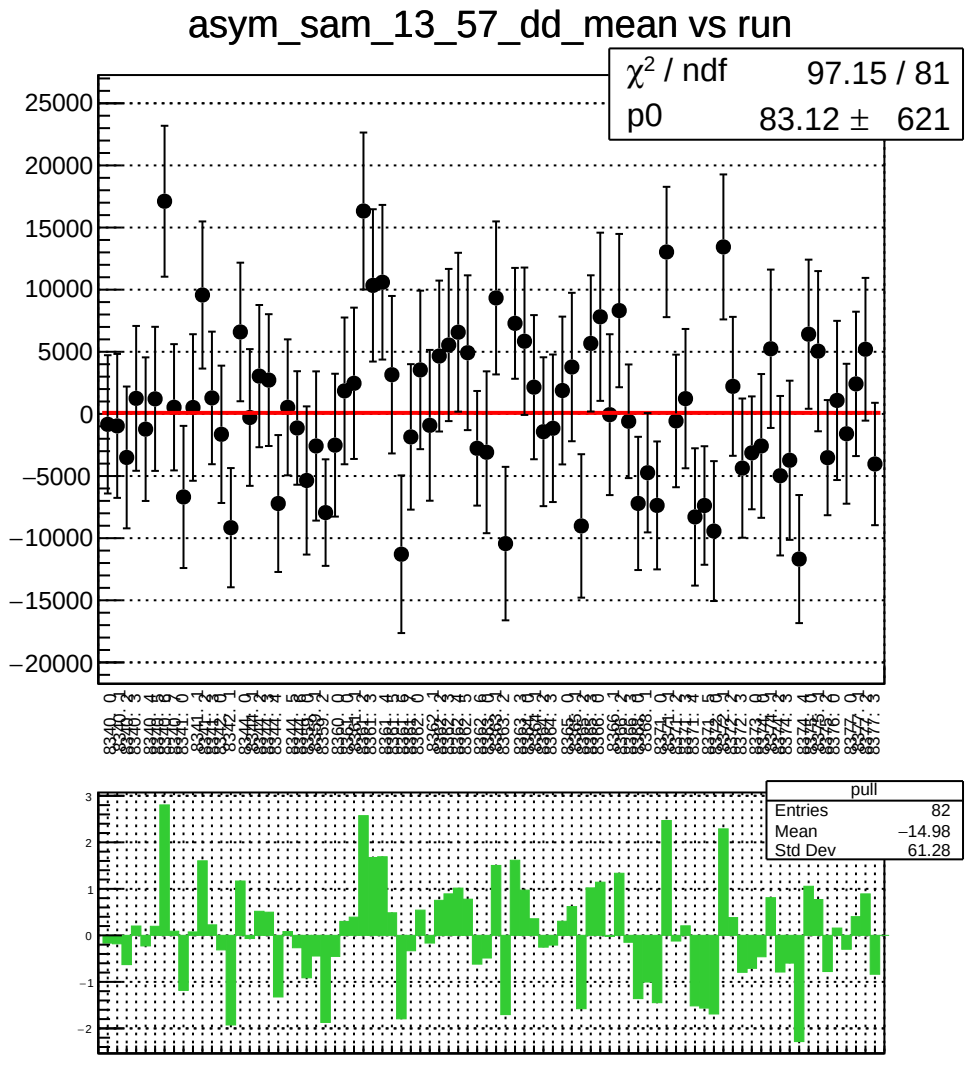

pull1D
Entries 82
Mean 0.01949
Std Dev 1.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

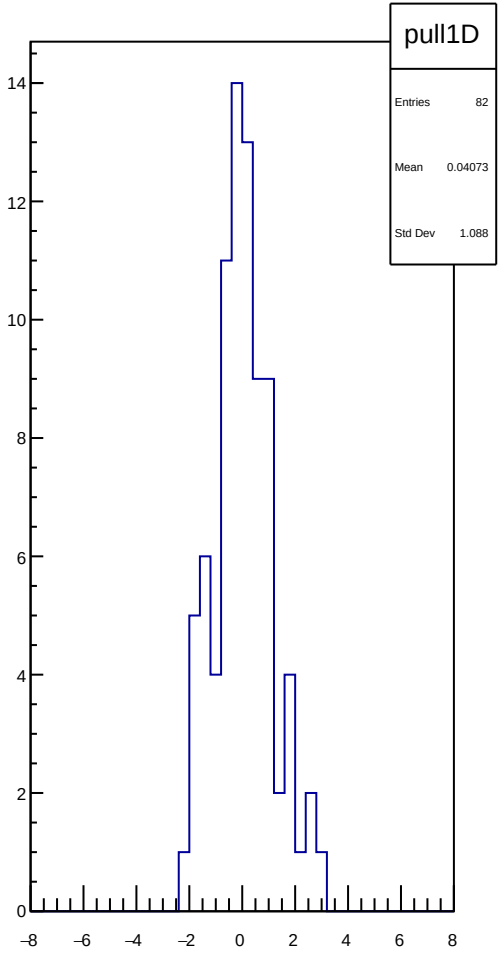

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 5870 / 81
p0 63.09 ± 0.04945
90
85
80
75
70
65
60
55

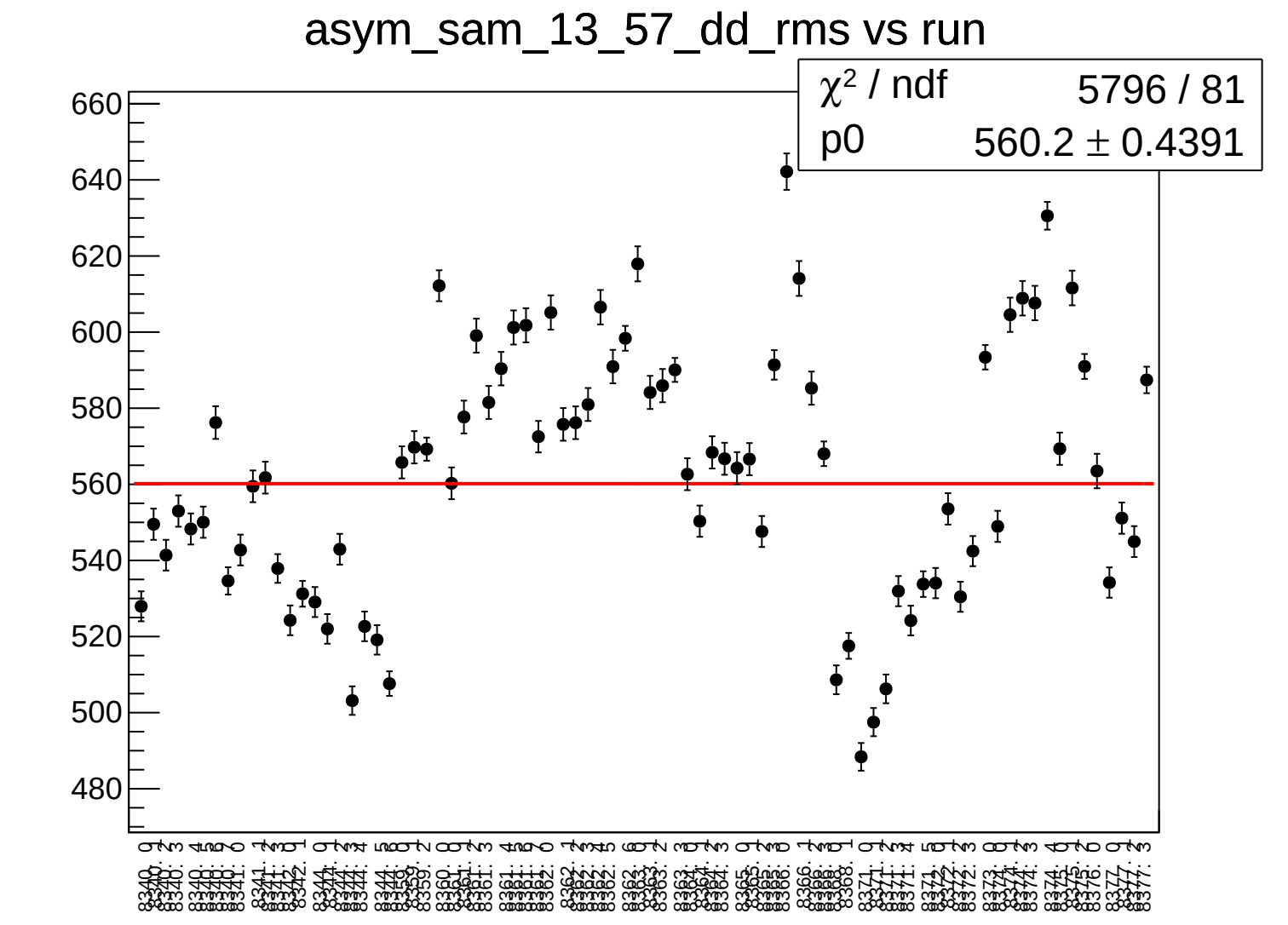

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 95.21 / 81
p0 −68.62 ± 617
pull
Entries 82
Mean −15.97
Std Dev 60.97

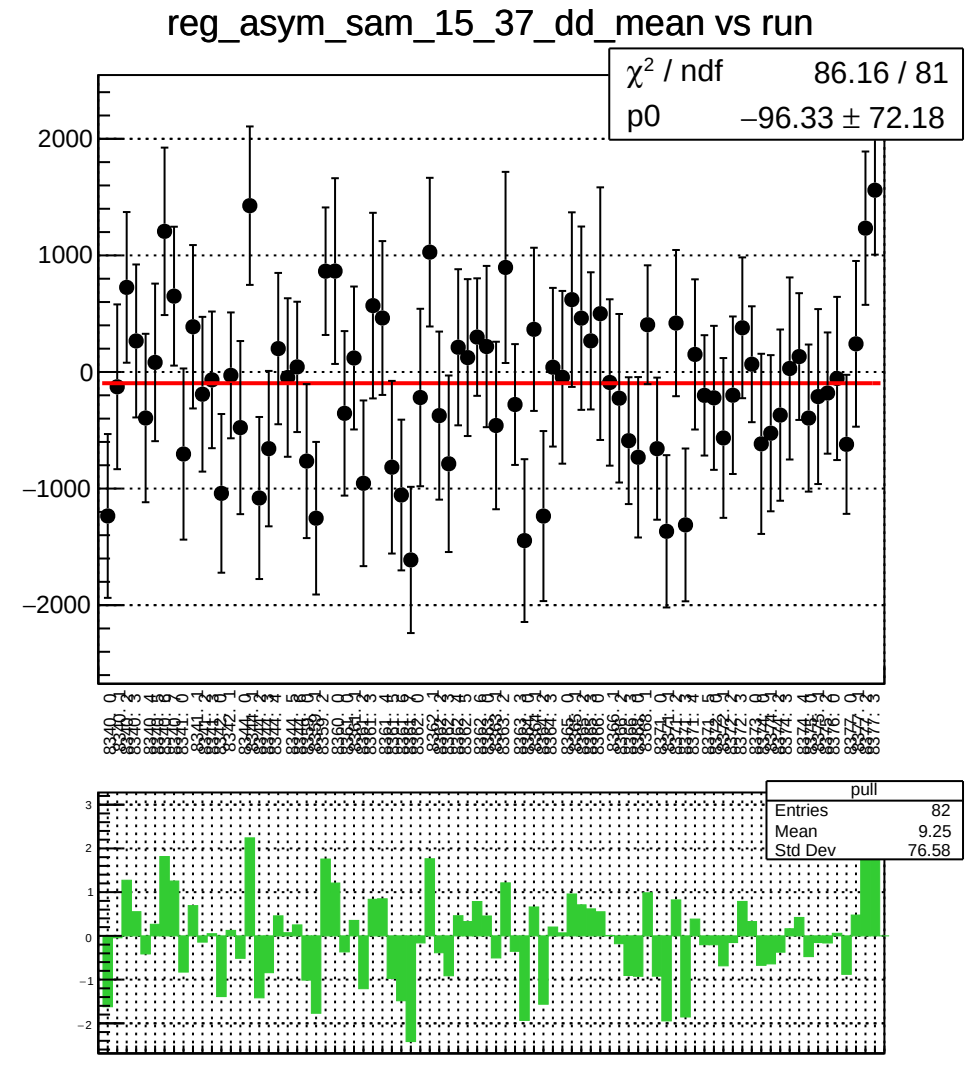

pull1D
Entries 82
Mean −0.03889
Std Dev 1.077

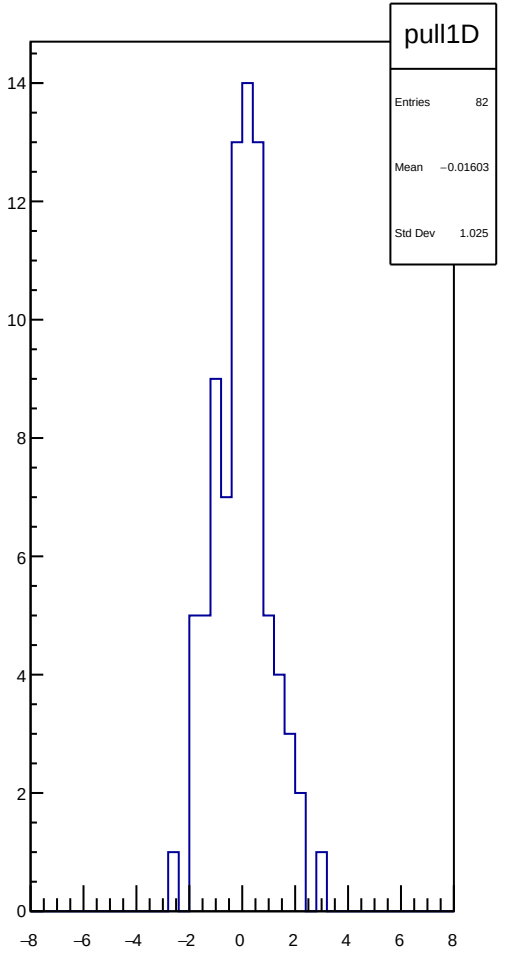

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 5873 / 81
p0 556.5 ± 0.4363
640
620
600
580
560
540
520
500
480

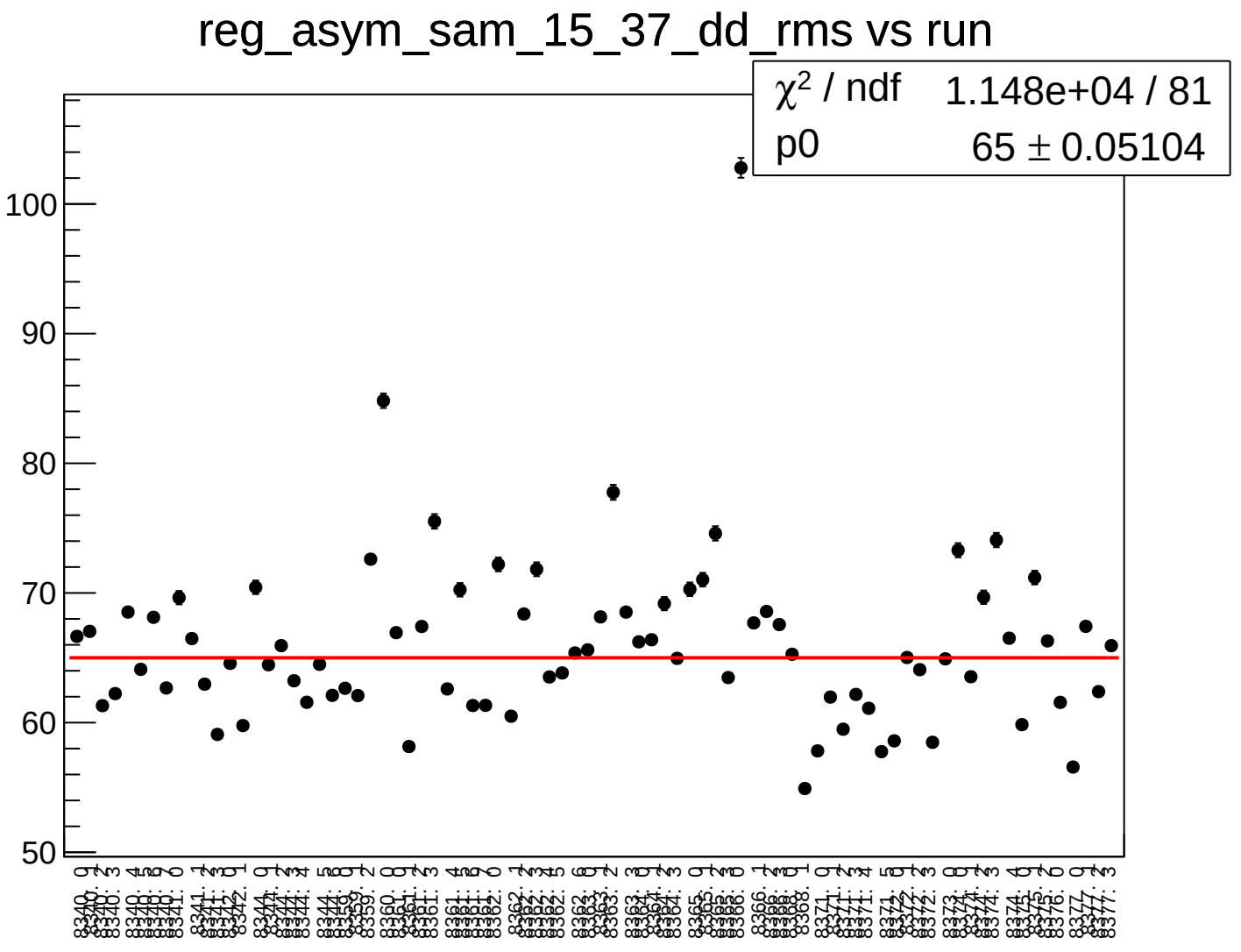

asym_sam_13_57_dd_mean vs run
χ² / ndf 97.15 / 81
p0 83.12 ± 621
pull
Entries 82
Mean −14.98
Std Dev 61.28

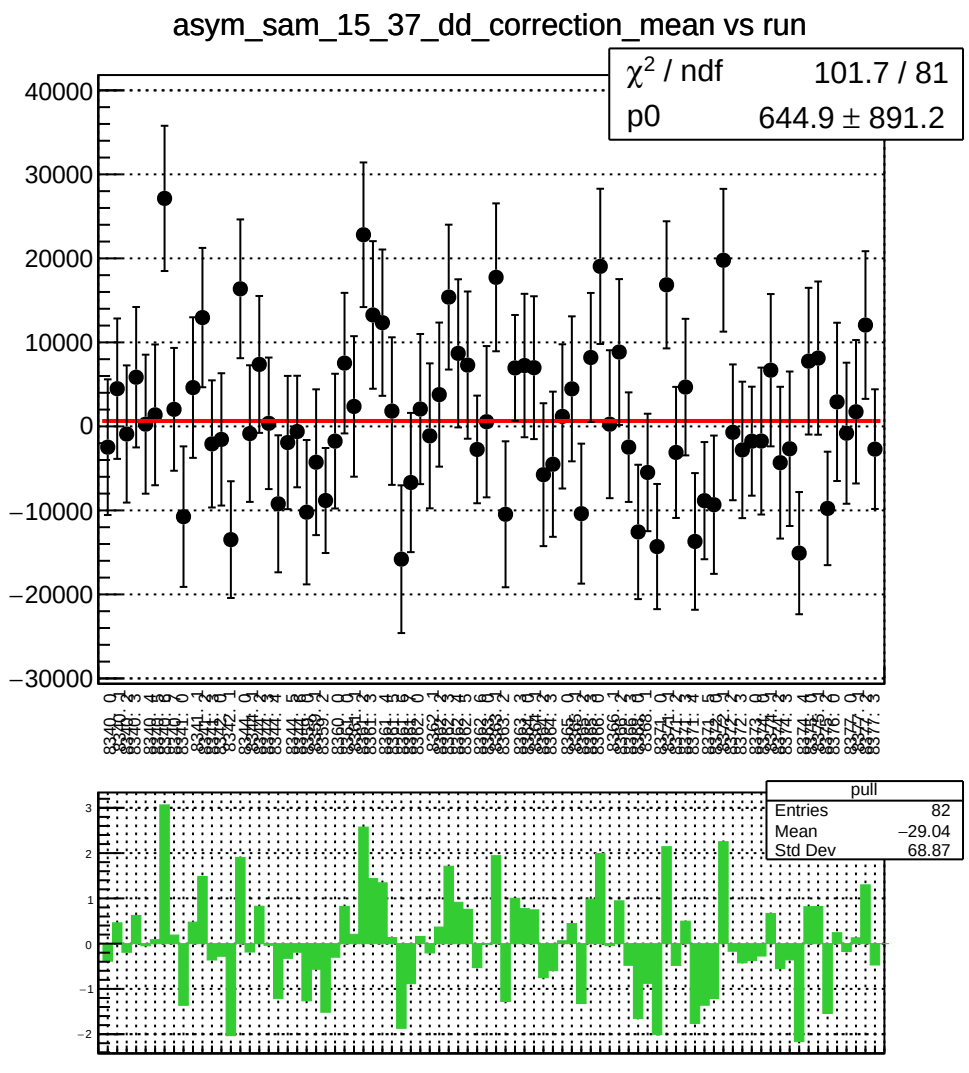

pull1D
Entries 82
Mean 0.04073
Std Dev 1.088

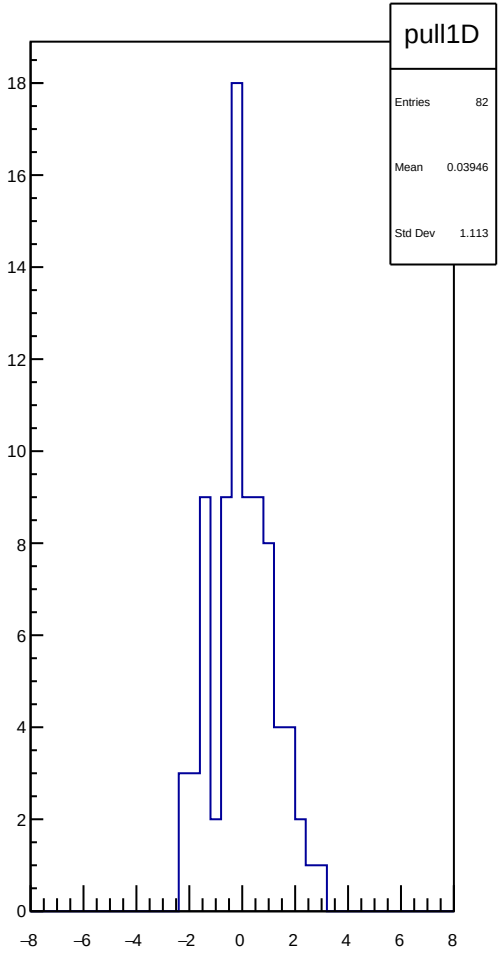

asym_sam_13_57_dd_rms vs run
χ² / ndf 5796 / 81
p0 560.2 ± 0.4391
660
640
620
600
580
560
540
520
500
480

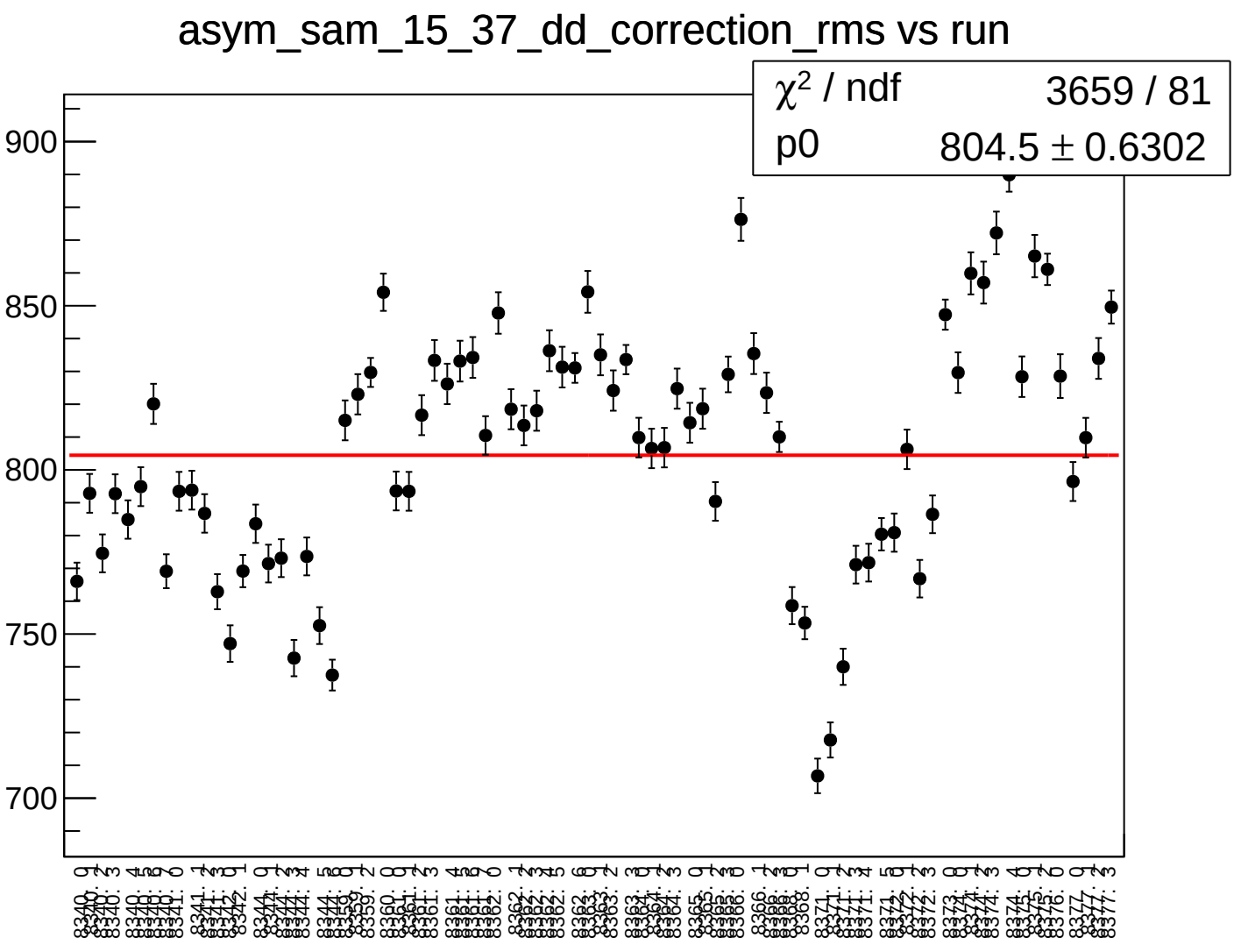

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 86.16 / 81
p0 −96.33 ± 72.18
2000
1000
0
−1000
−2000
pull
Entries 82
Mean 9.25
Std Dev 76.58
3
2
1
0
−1
−2

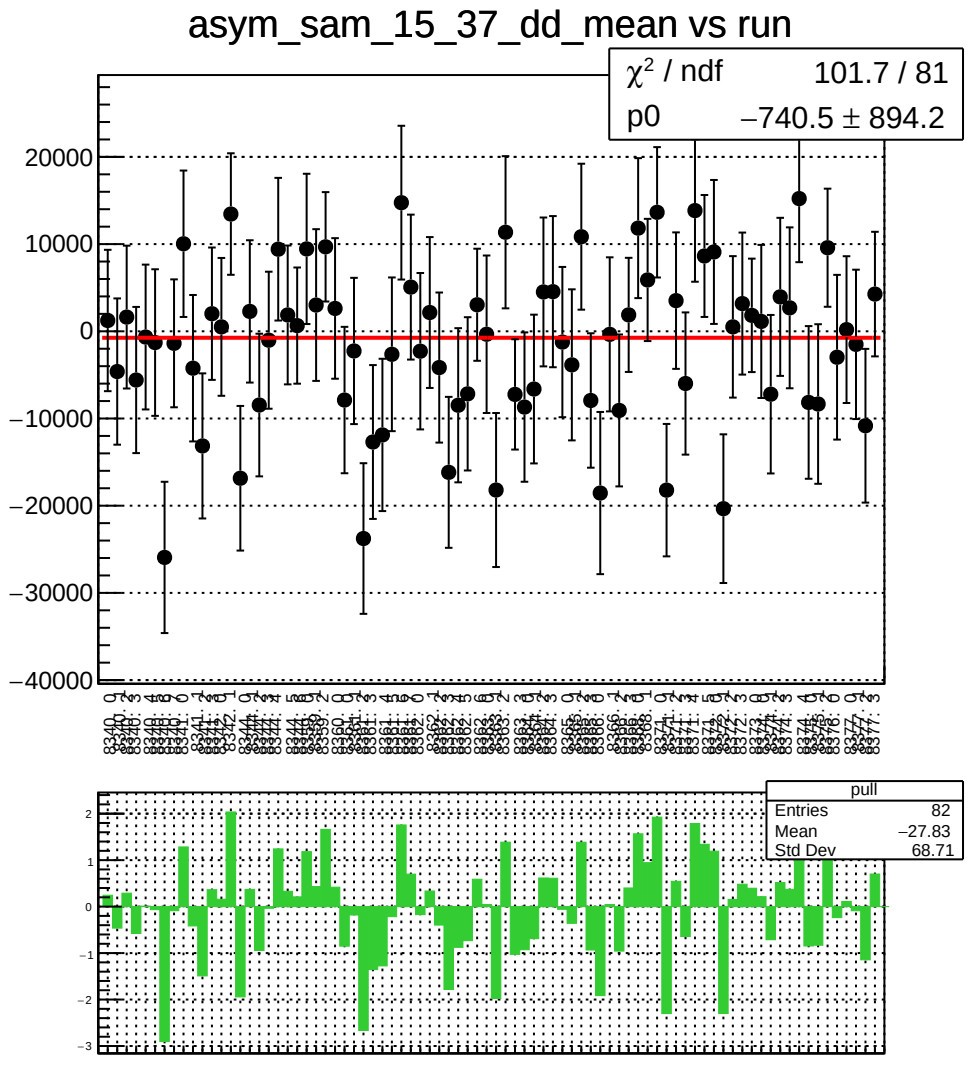

pull1D
Entries 82
Mean −0.01603
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

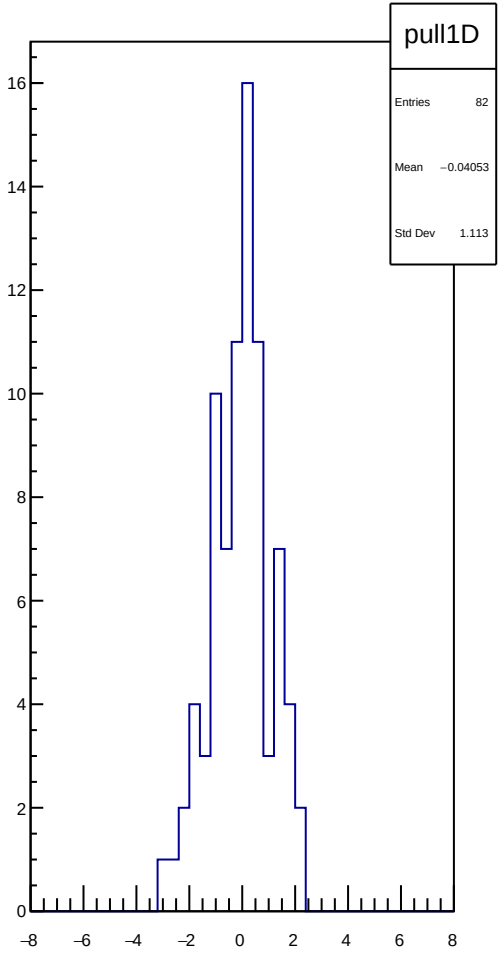

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.148e+04 / 81
p0 65 ± 0.05104
100
90
80
70
60
50

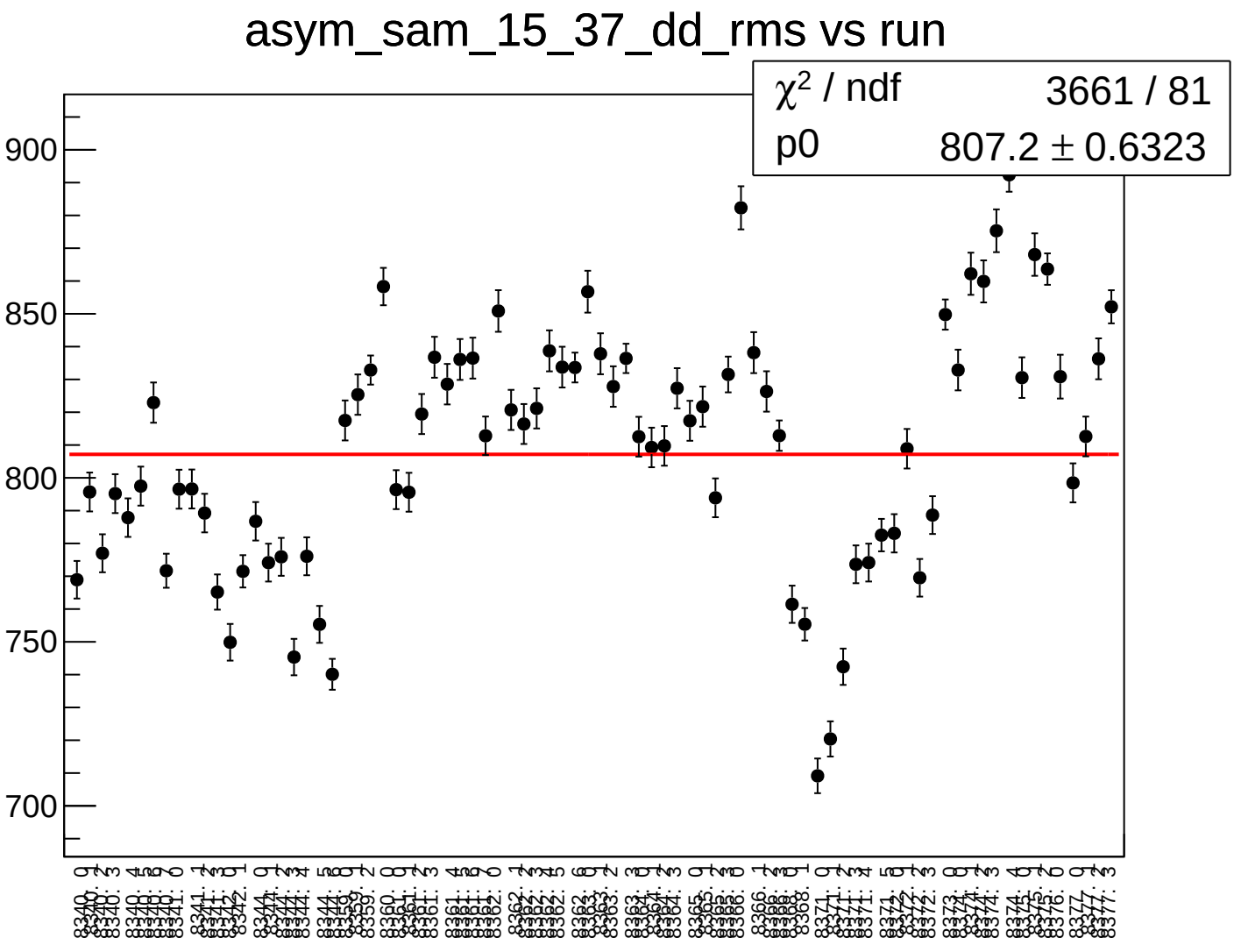

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 101.7 / 81
p0 644.9 ± 891.2
pull
Entries 82
Mean −29.04
Std Dev 68.87

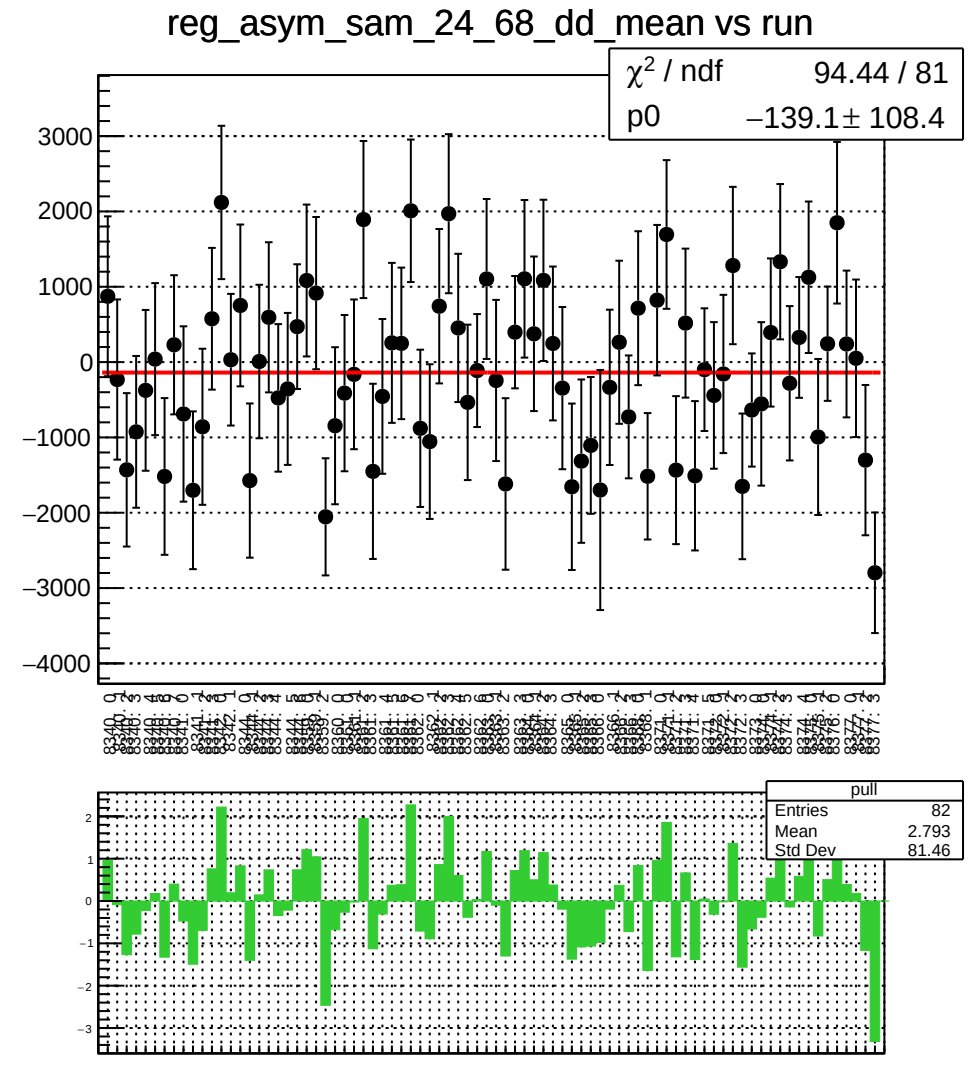

pull1D
Entries 82
Mean 0.03946
Std Dev 1.113

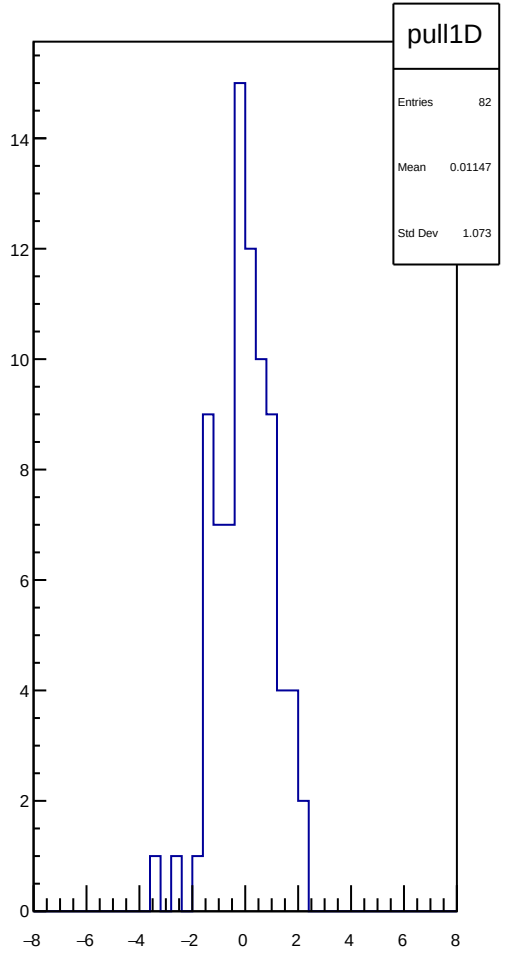

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 3659 / 81
p0 804.5 ± 0.6302
900
850
800
750
700

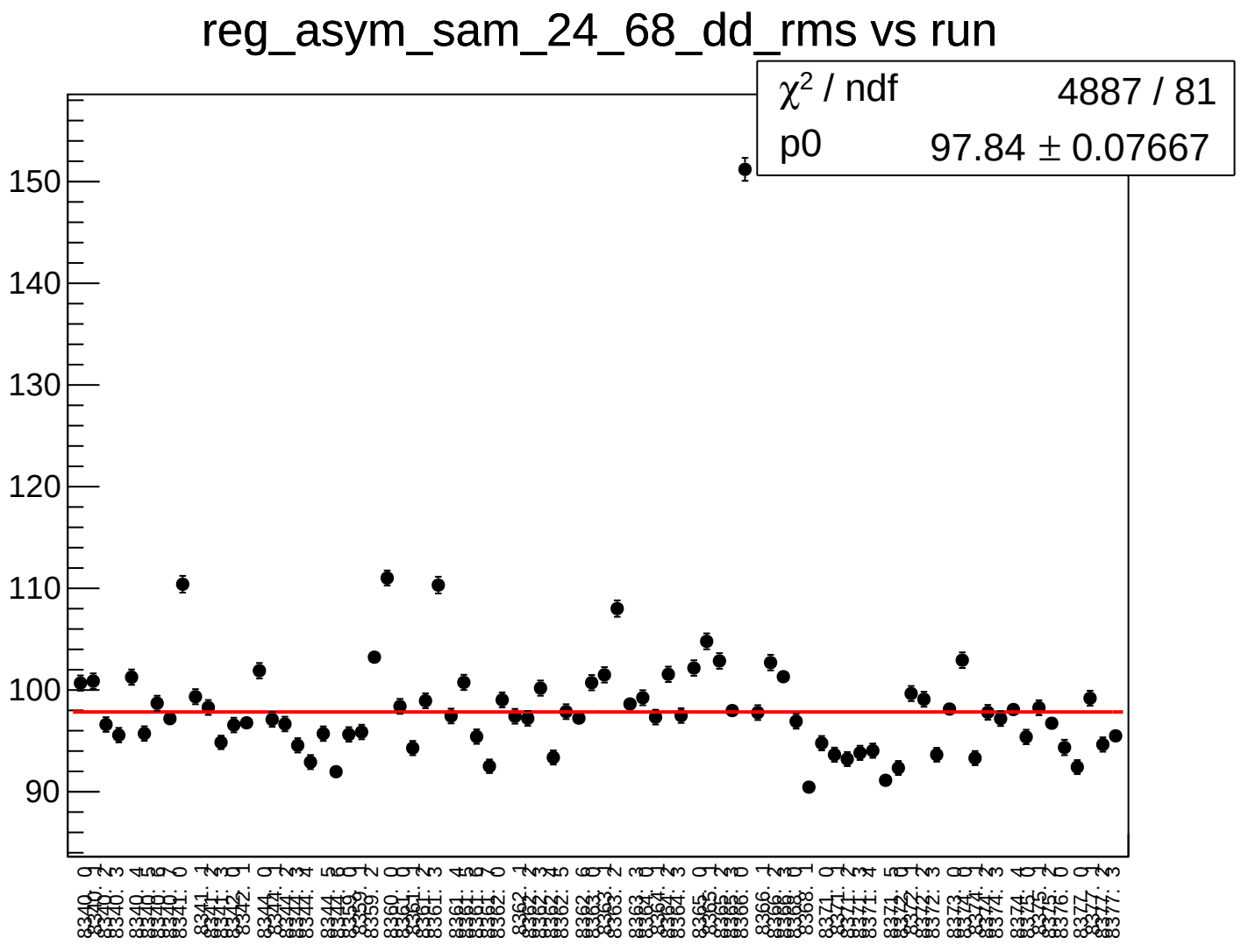

asym_sam_15_37_dd_mean vs run
χ² / ndf 101.7 / 81
p0 −740.5 ± 894.2
pull
Entries 82
Mean −27.83
Std Dev 68.71

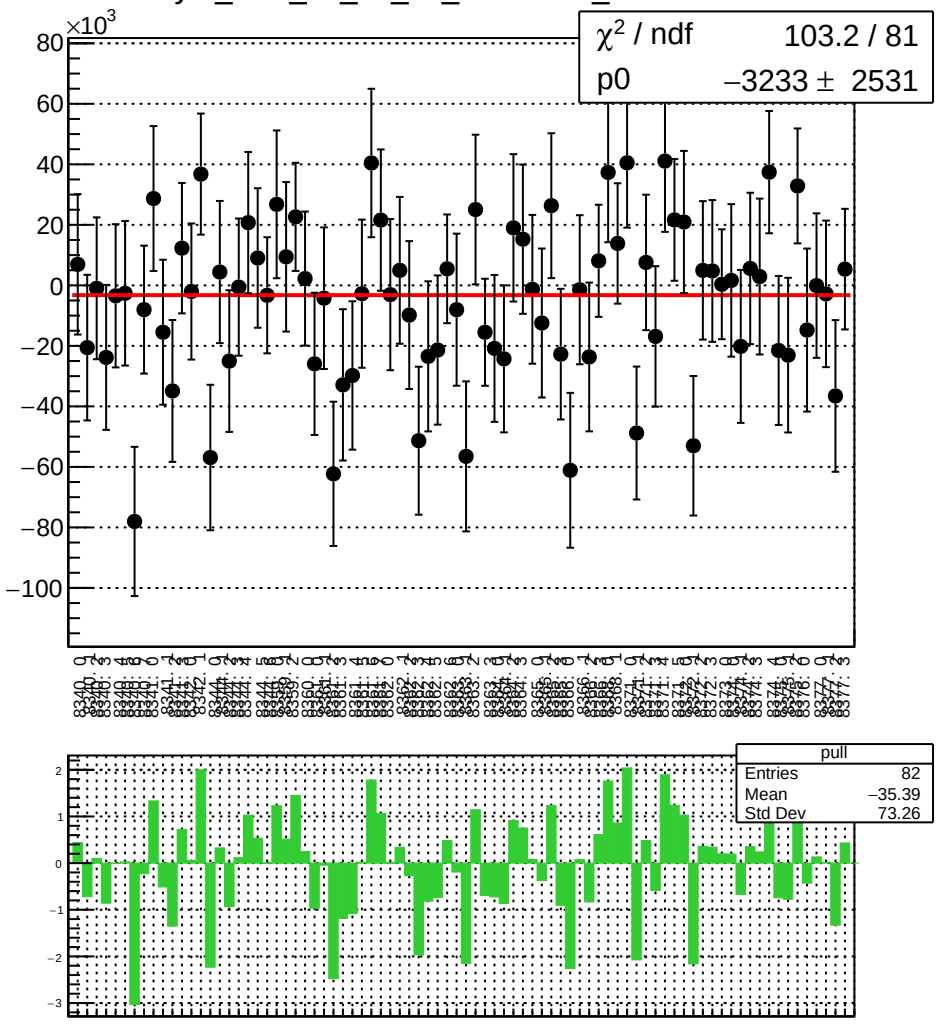

pull1D
Entries 82
Mean −0.04053
Std Dev 1.113

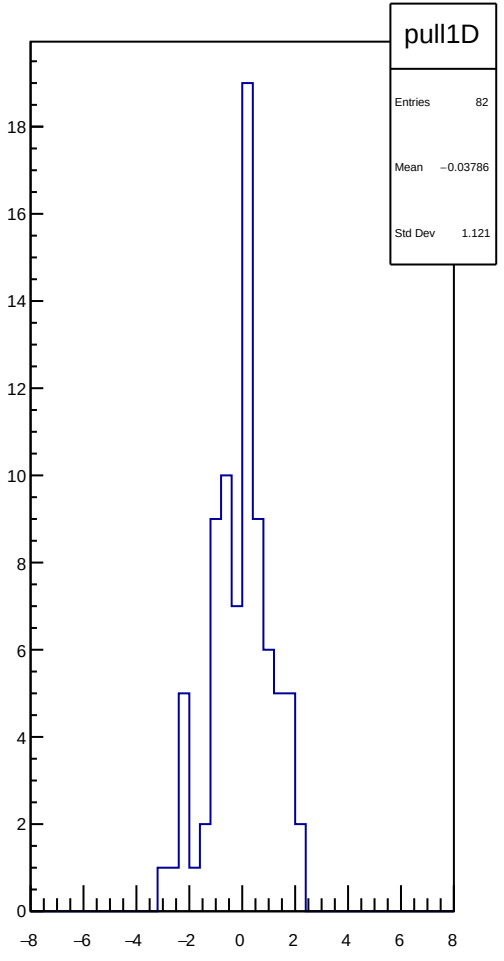

asym_sam_15_37_dd_rms vs run
χ² / ndf 3661 / 81
p0 807.2 ± 0.6323
900
850
800
750
700

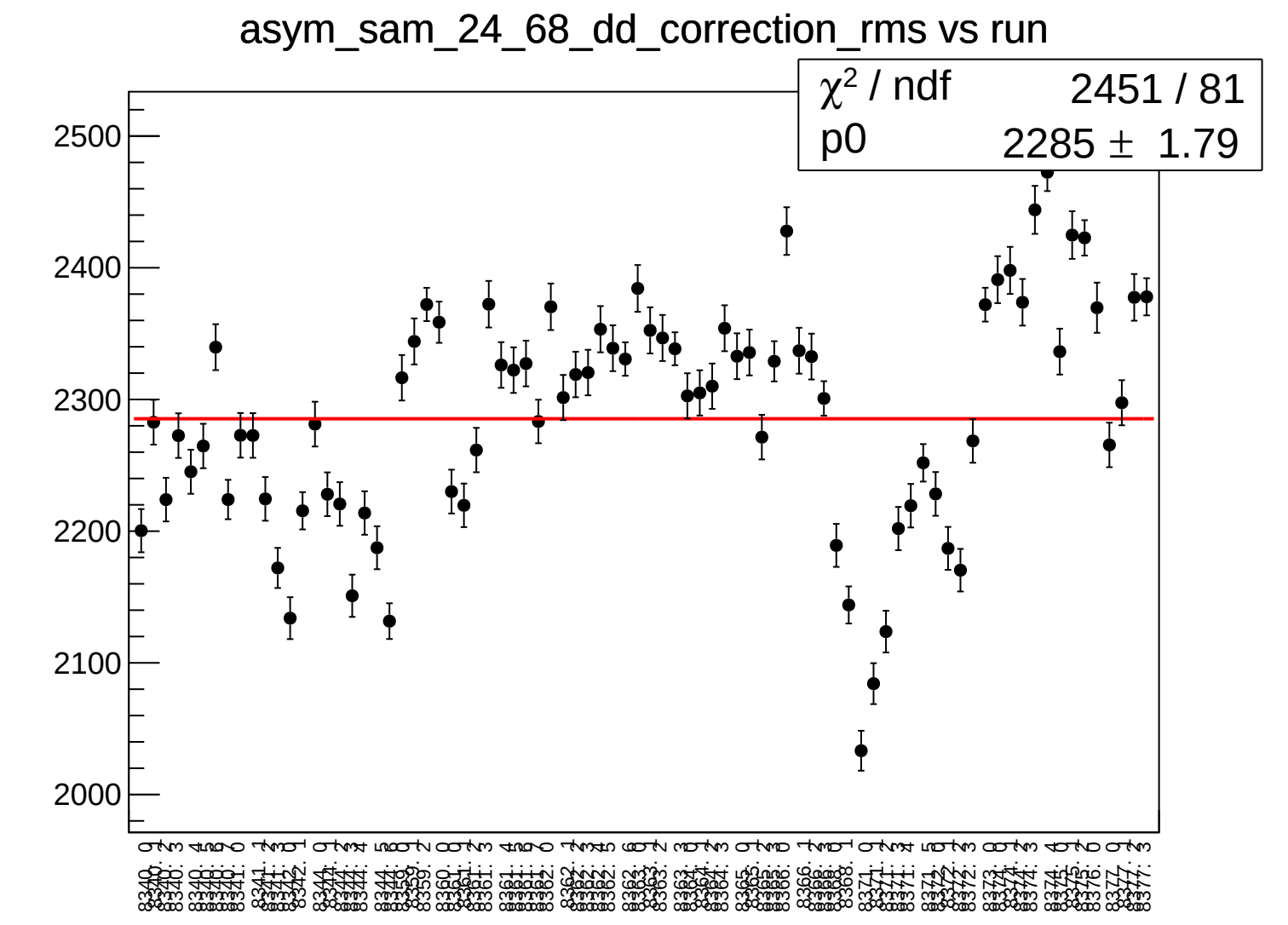

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 94.44 / 81
p0 −139.1± 108.4
pull
Entries 82
Mean 2.793
Std Dev 81.46

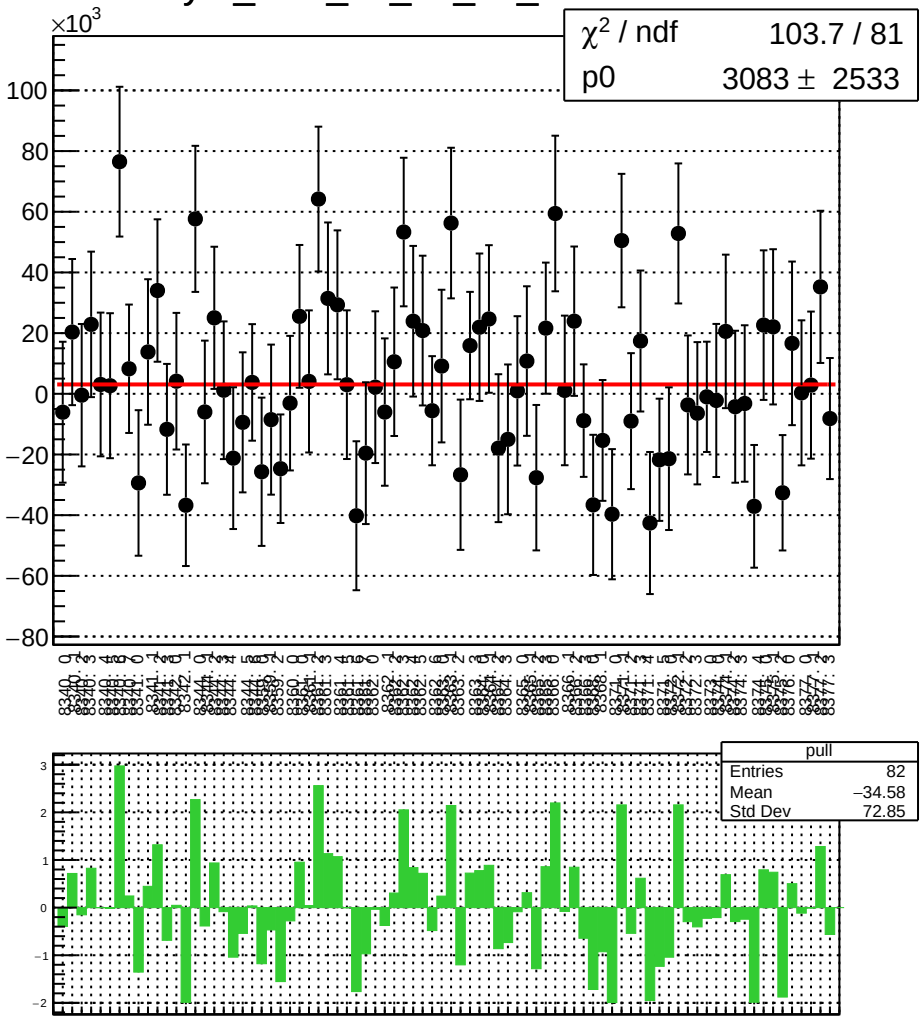

pull1D
Entries 82
Mean 0.01147
Std Dev 1.073

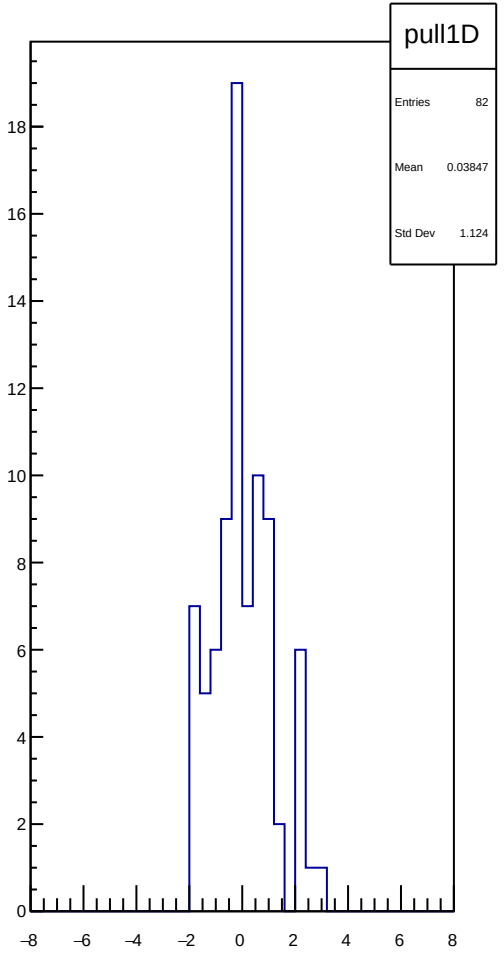

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 4887 / 81
p0 97.84 ± 0.07667
150
140
130
120
110
100
90

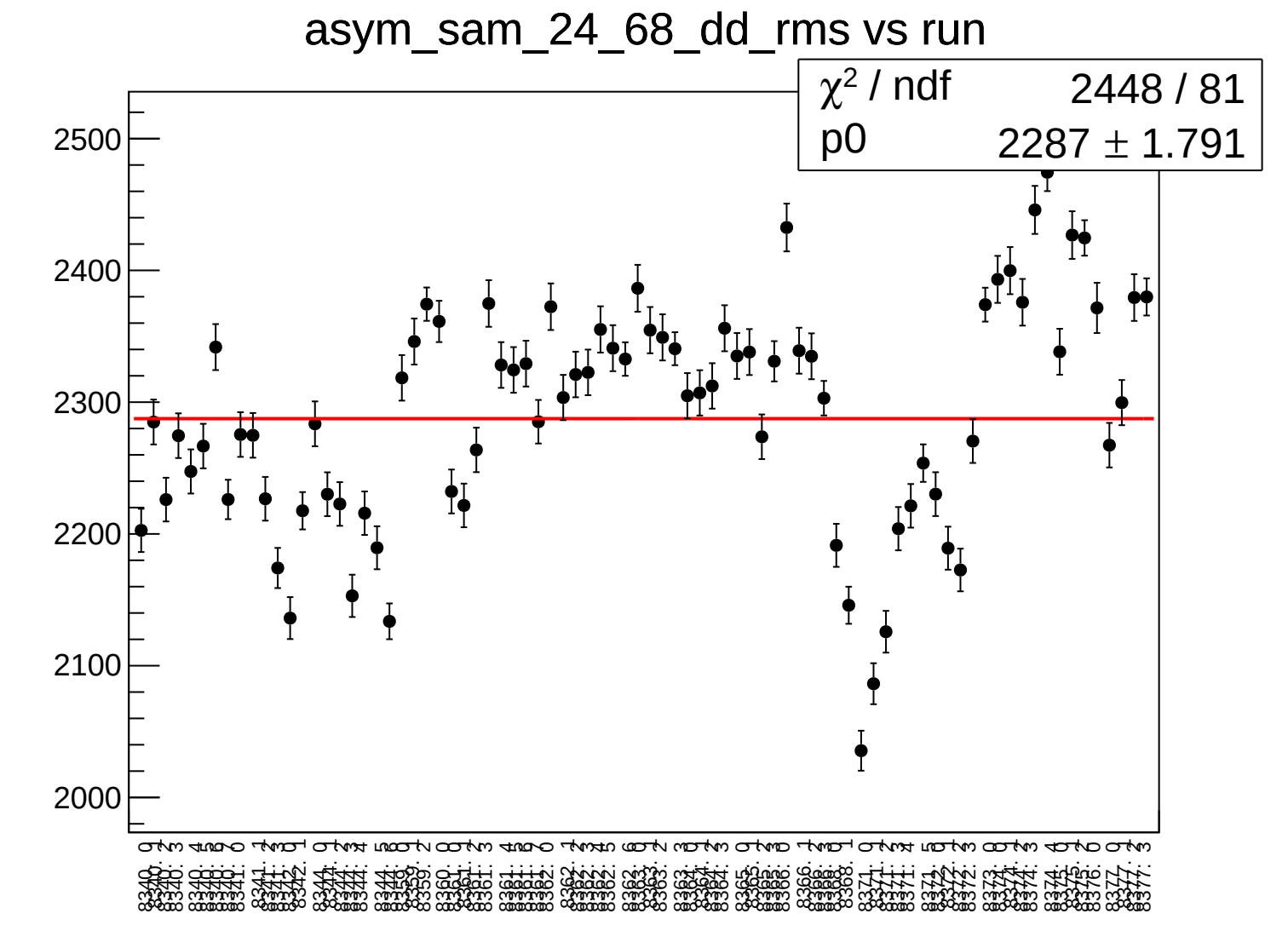

asym_sam_24_68_dd_correction_mean vs run
χ^2 / ndf 103.2 / 81
p0 −3233 ± 2531
×10^3
pull
Entries 82
Mean −35.39
Std Dev 73.26

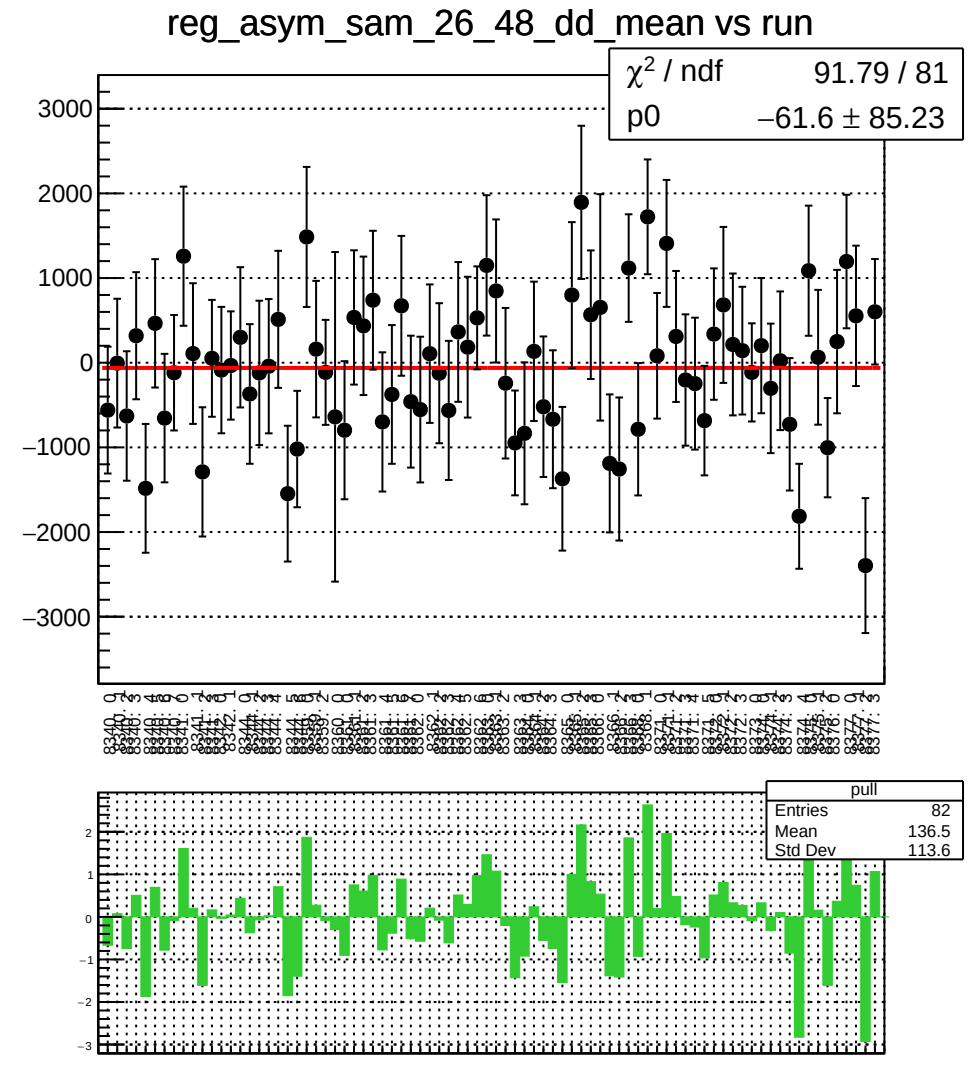

pull1D
Entries 82
Mean −0.03786
Std Dev 1.121

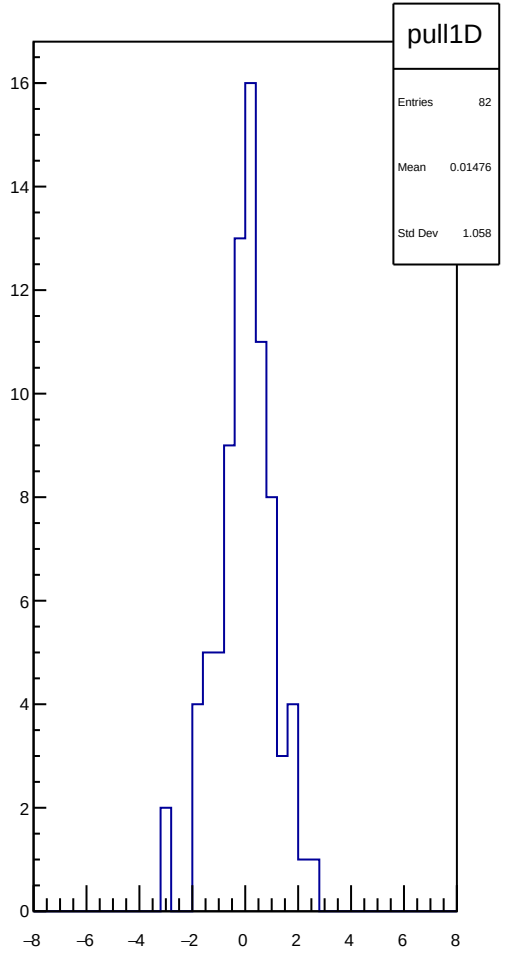

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 2451 / 81
p0 2285 ± 1.79
2500
2400
2300
2200
2100
2000

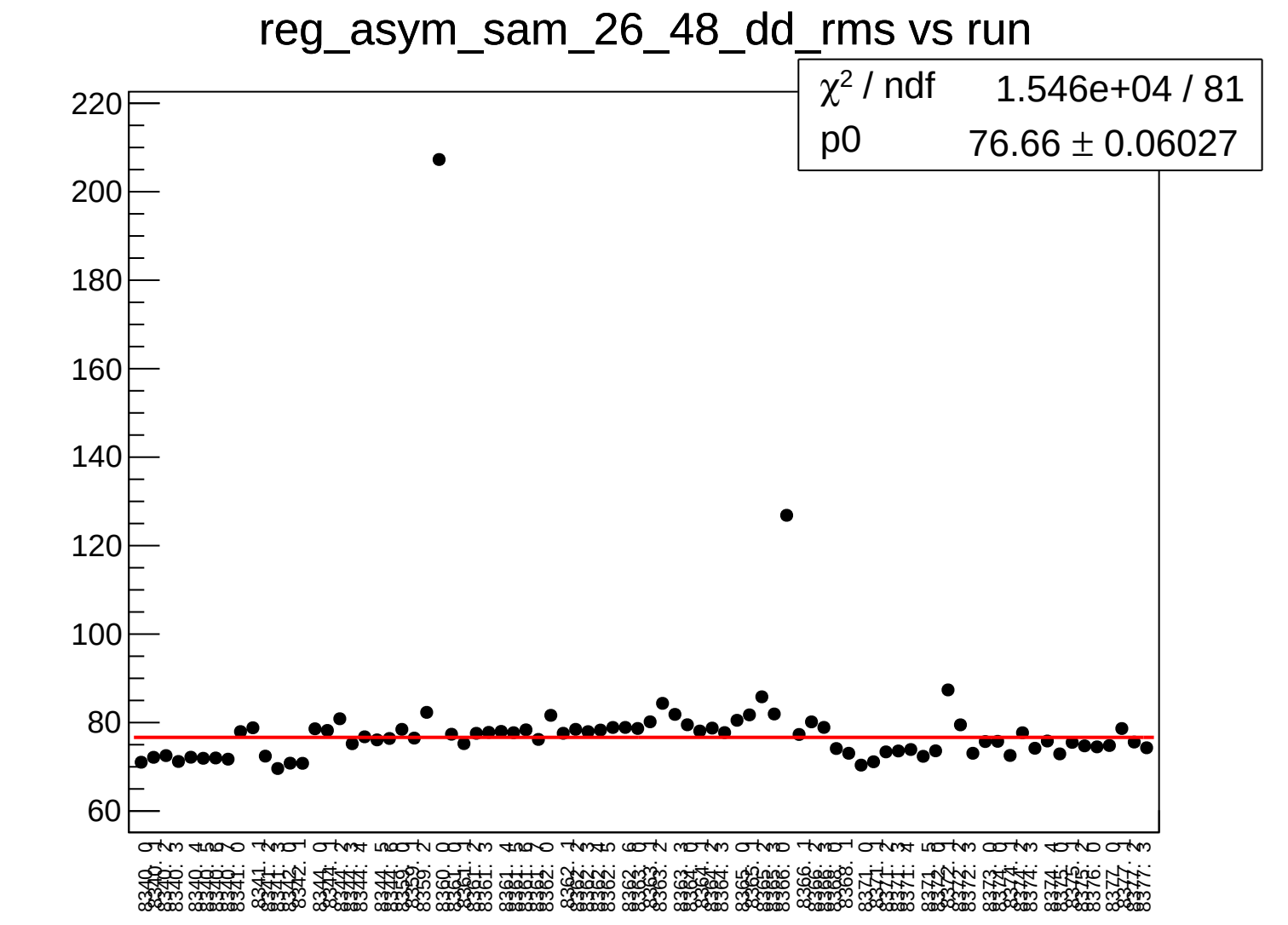

asym_sam_24_68_dd_mean vs run
×10^3
χ^2 / ndf 103.7 / 81
p0 3083 ± 2533
pull
Entries 82
Mean −34.58
Std Dev 72.85

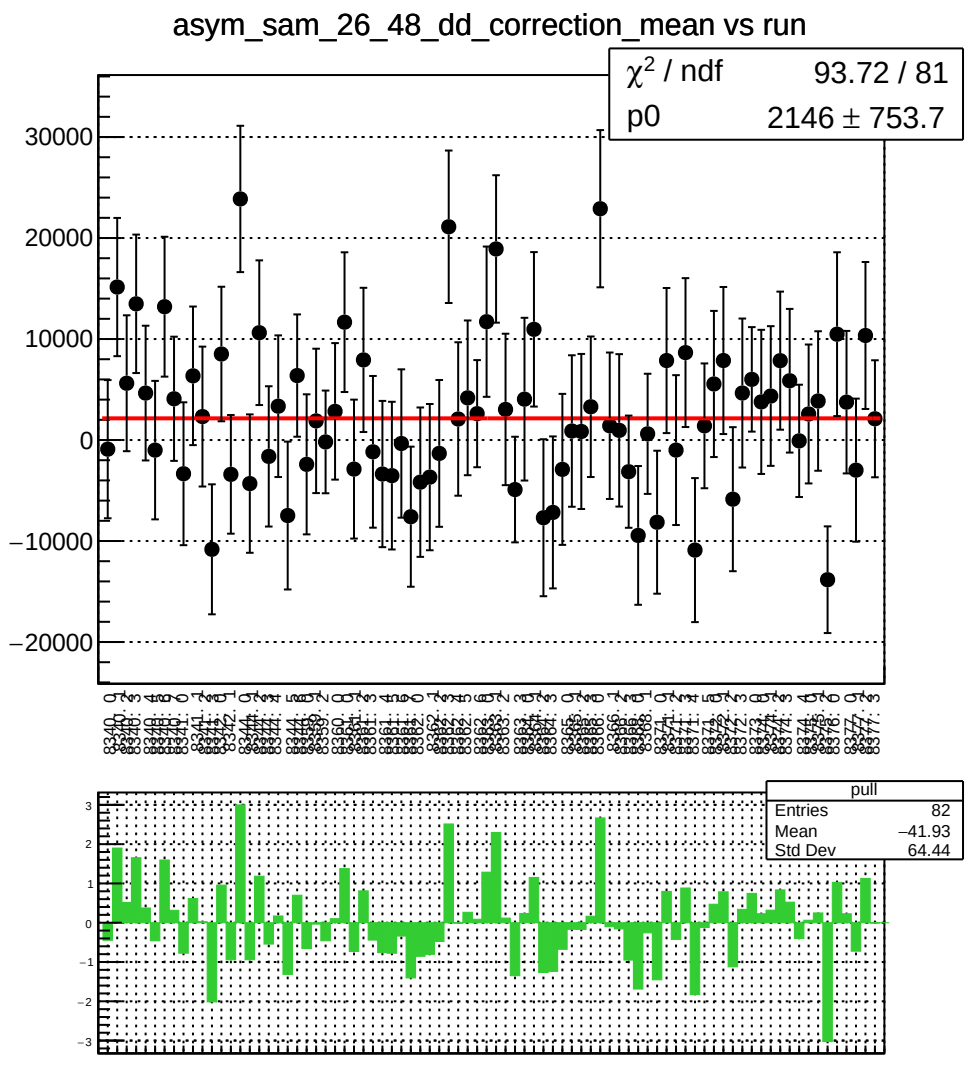

pull1D
Entries 82
Mean 0.03847
Std Dev 1.124

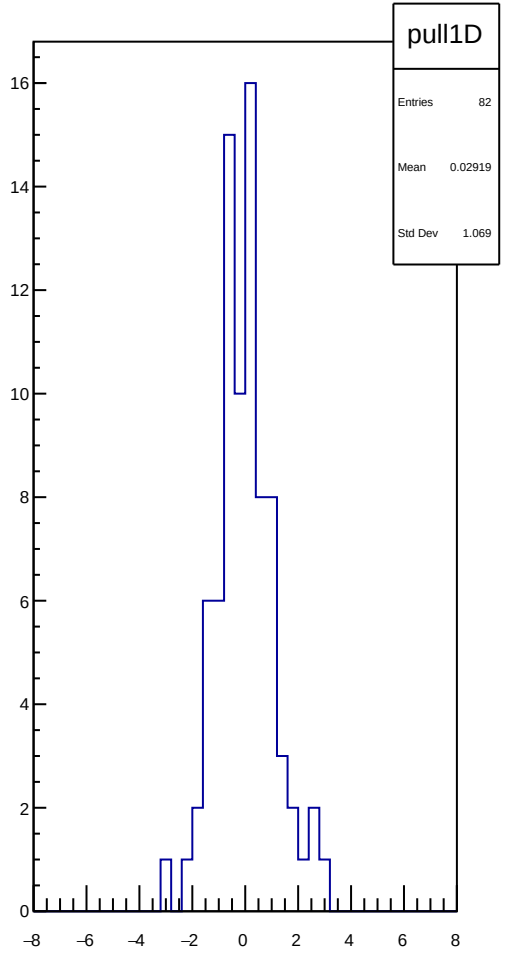

asym_sam_24_68_dd_rms vs run
χ² / ndf 2448 / 81
p0 2287 ± 1.791
2500
2400
2300
2200
2100
2000

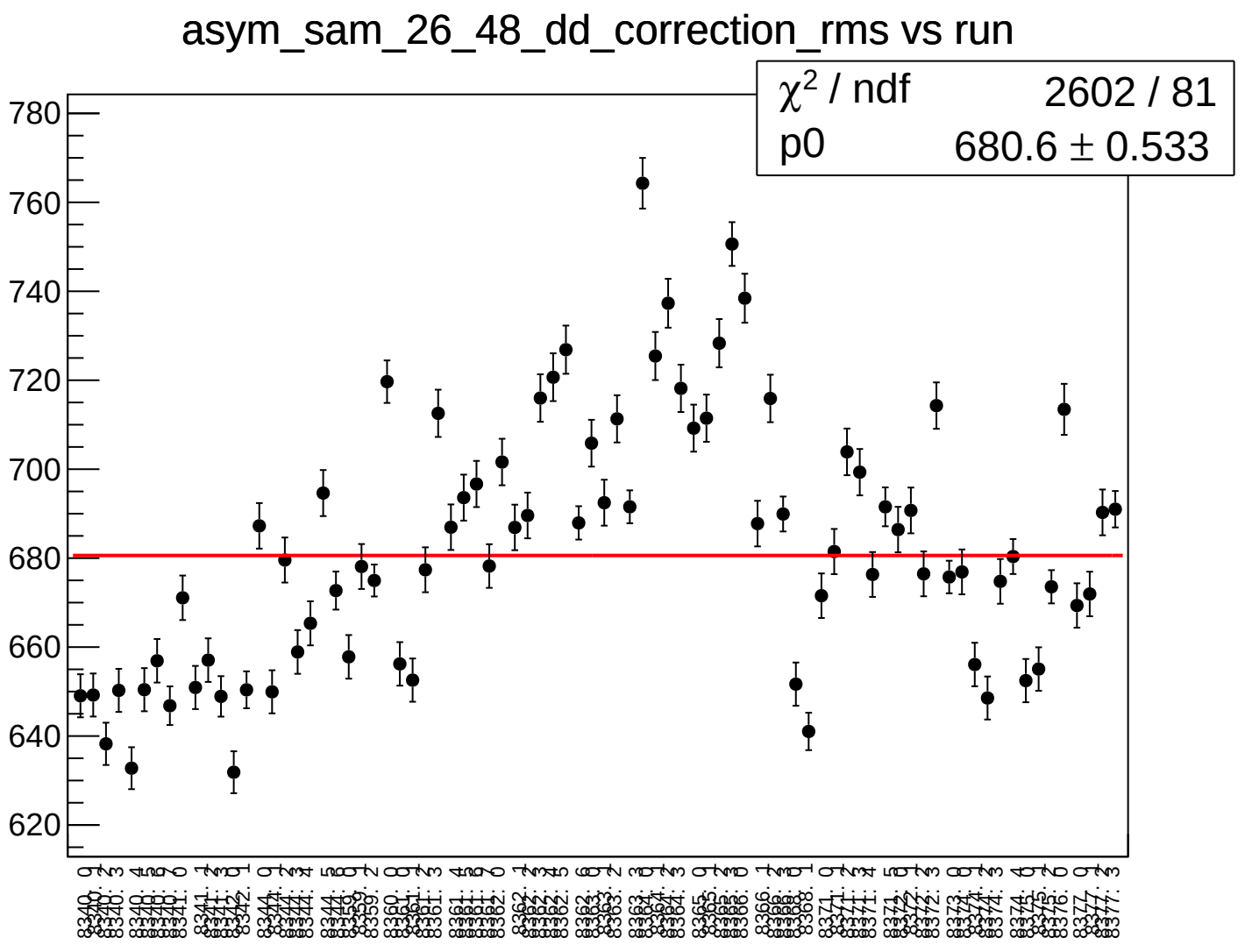

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 91.79 / 81
p0 −61.6 ± 85.23
pull
Entries 82
Mean 136.5
Std Dev 113.6

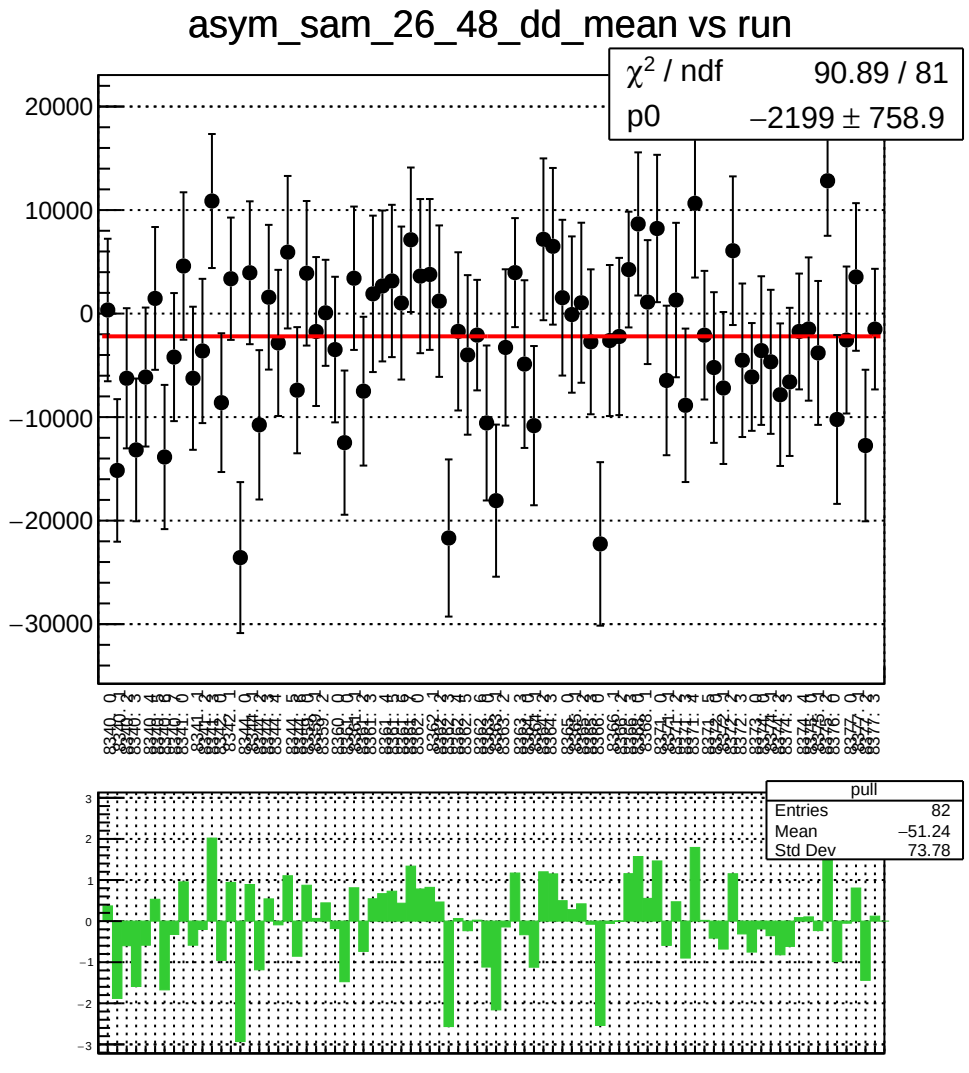

pull1D
Entries 82
Mean 0.01476
Std Dev 1.058

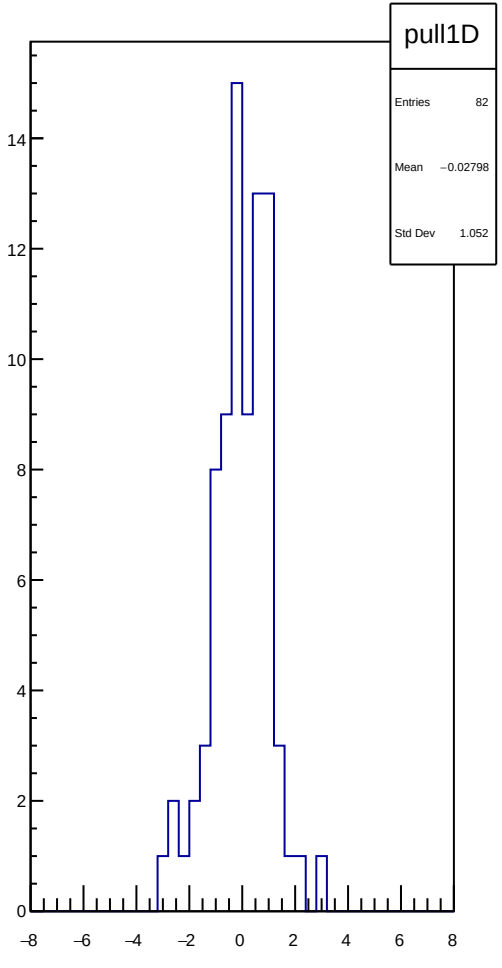

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.546e+04 / 81
p0 76.66 ± 0.06027
220
200
180
160
140
120
100
80
60

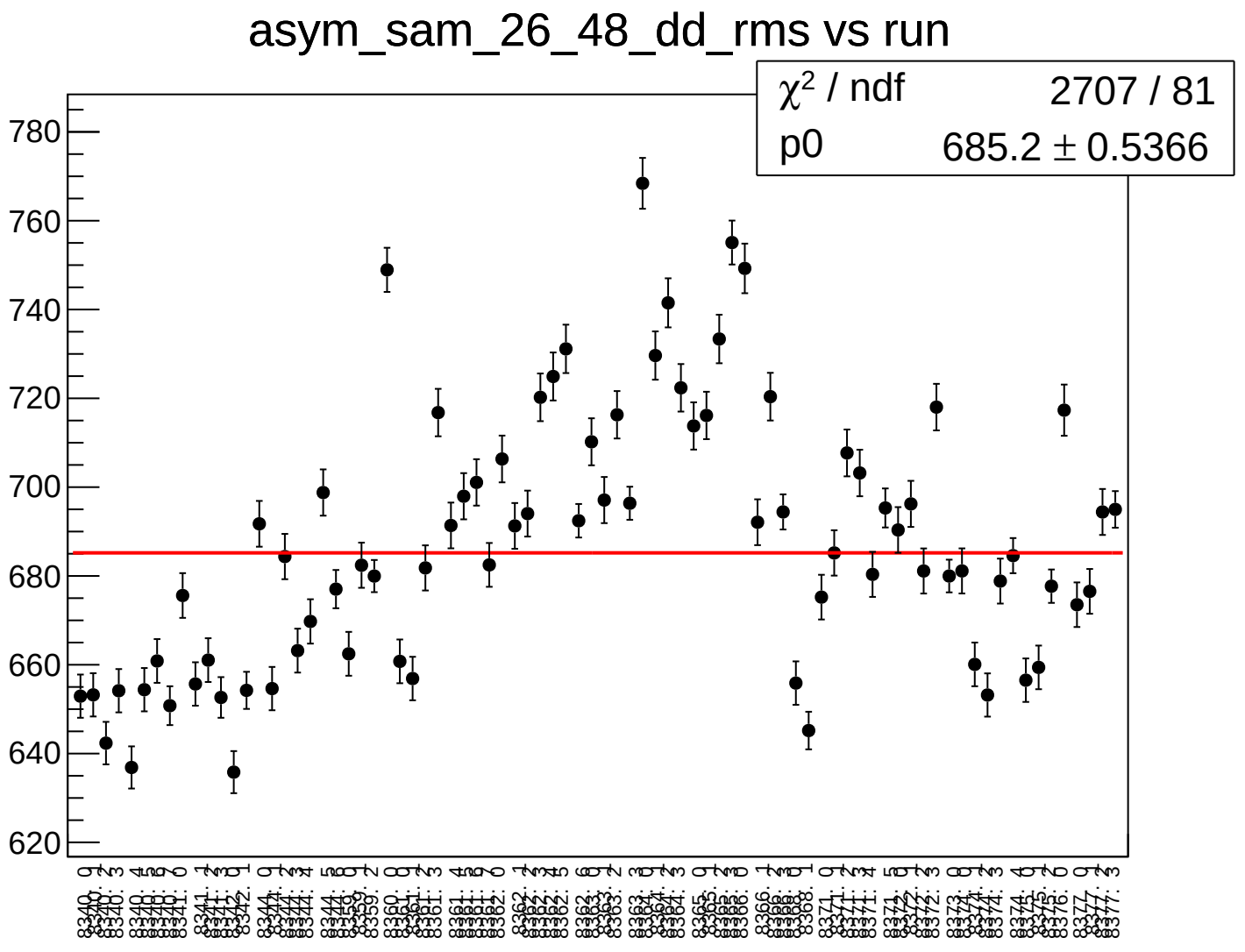

asym_sam_26_48_dd_correction_mean vs run
χ^2 / ndf 93.72 / 81
p0 2146 ± 753.7
30000
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −41.93
Std Dev 64.44
3
2
1
0
−1
−2
−3

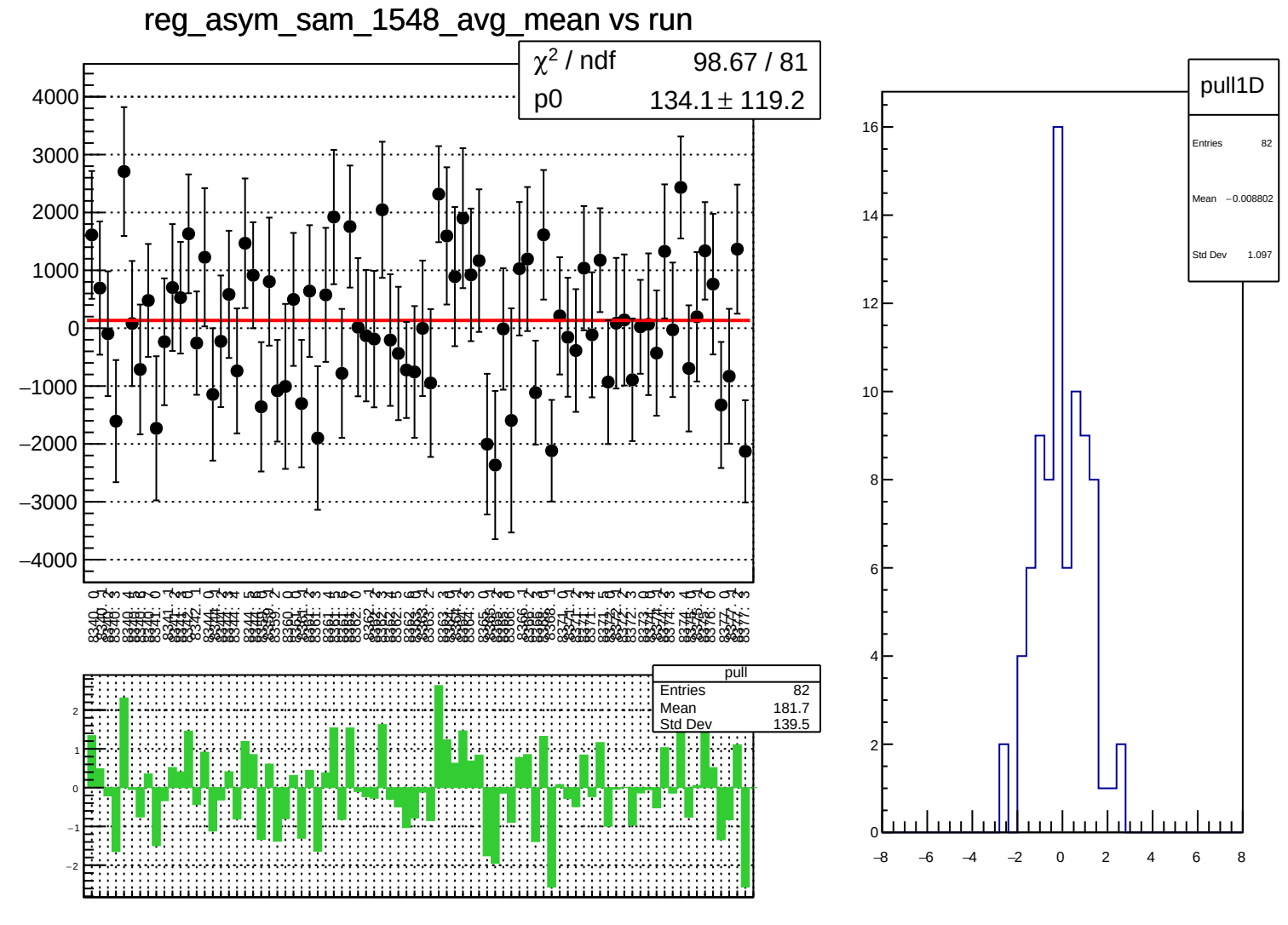

pull1D
Entries 82
Mean 0.02919
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

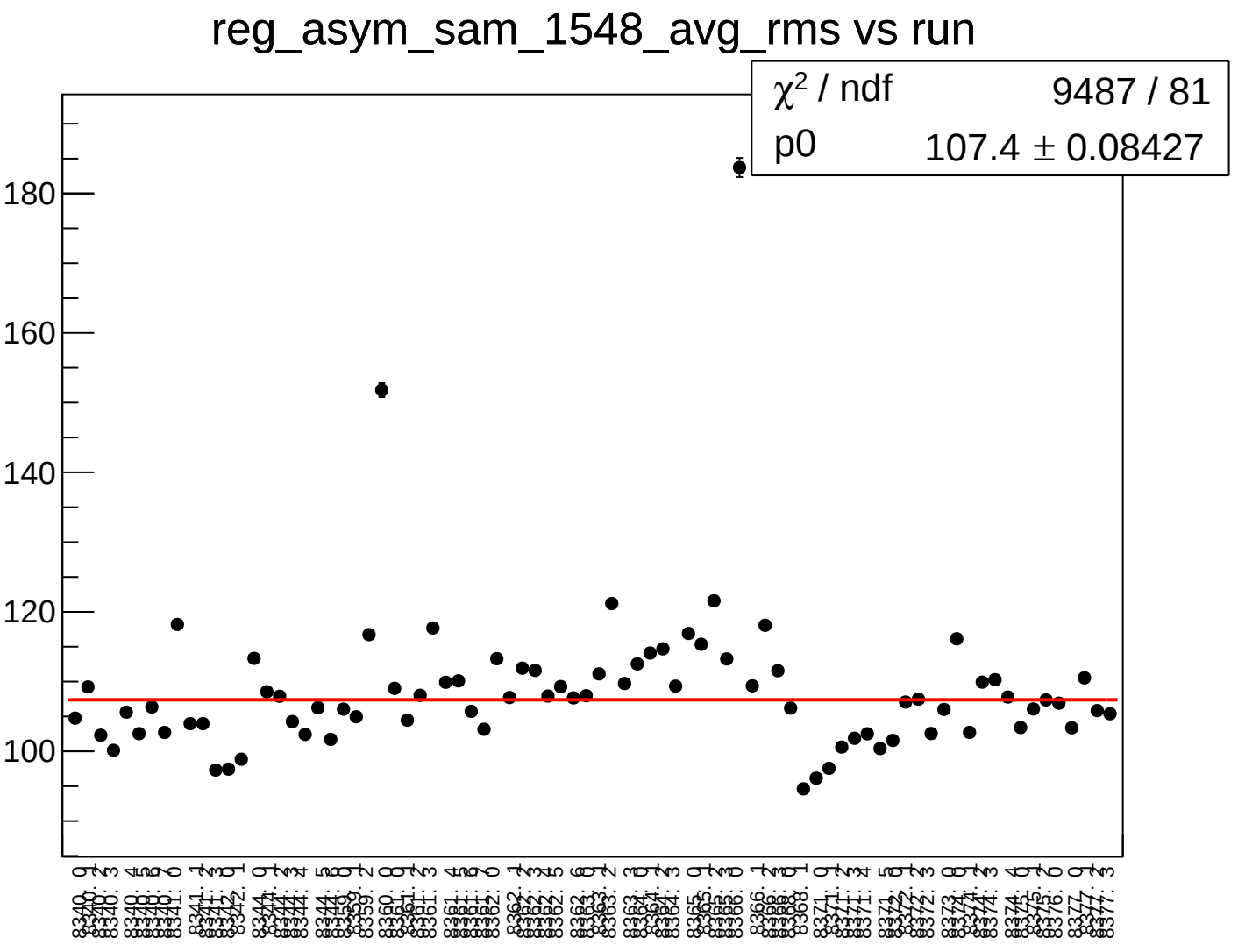

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 2602 / 81
p0 680.6 ± 0.533
780
760
740
720
700
680
660
640
620

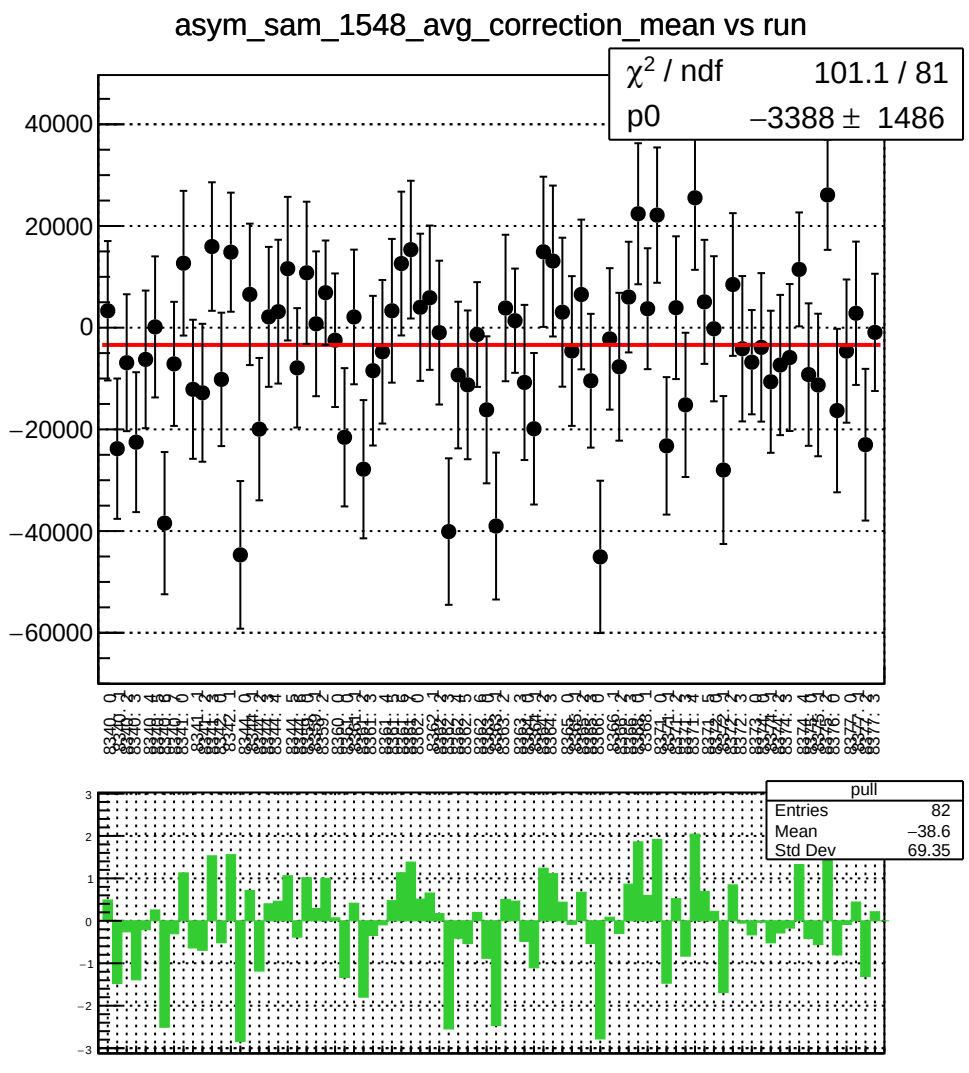

asym_sam_26_48_dd_mean vs run
χ² / ndf 90.89 / 81
p0 −2199 ± 758.9
pull
Entries 82
Mean −51.24
Std Dev 73.78

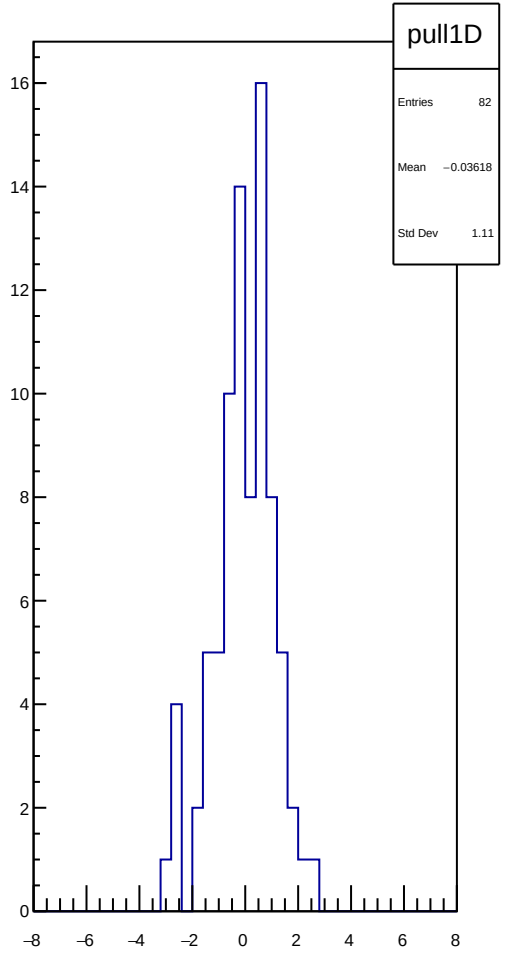

pull1D
Entries 82
Mean −0.02798
Std Dev 1.052

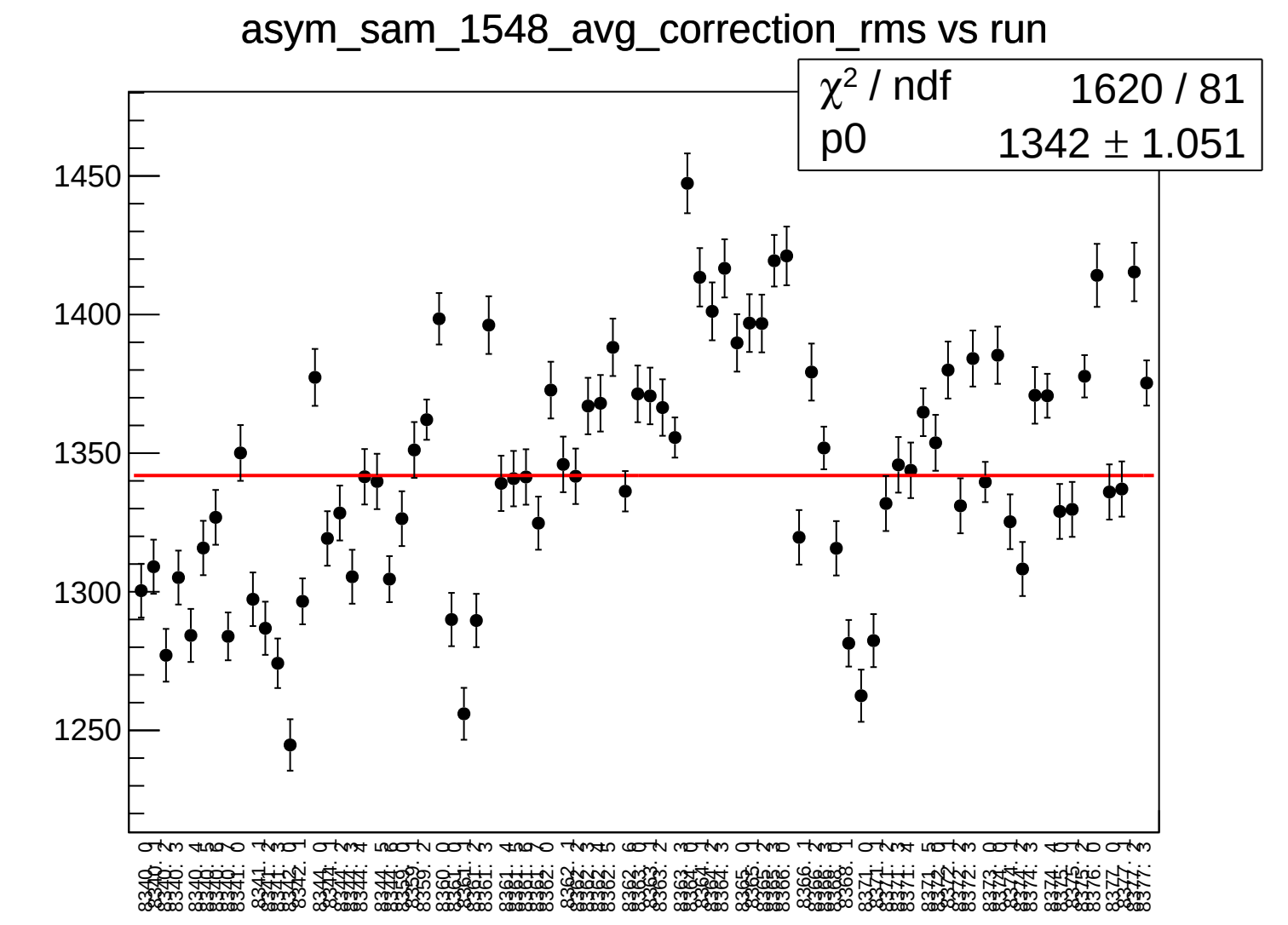

asym_sam_26_48_dd_rms vs run
χ² / ndf 2707 / 81
p0 685.2 ± 0.5366
780
760
740
720
700
680
660
640
620

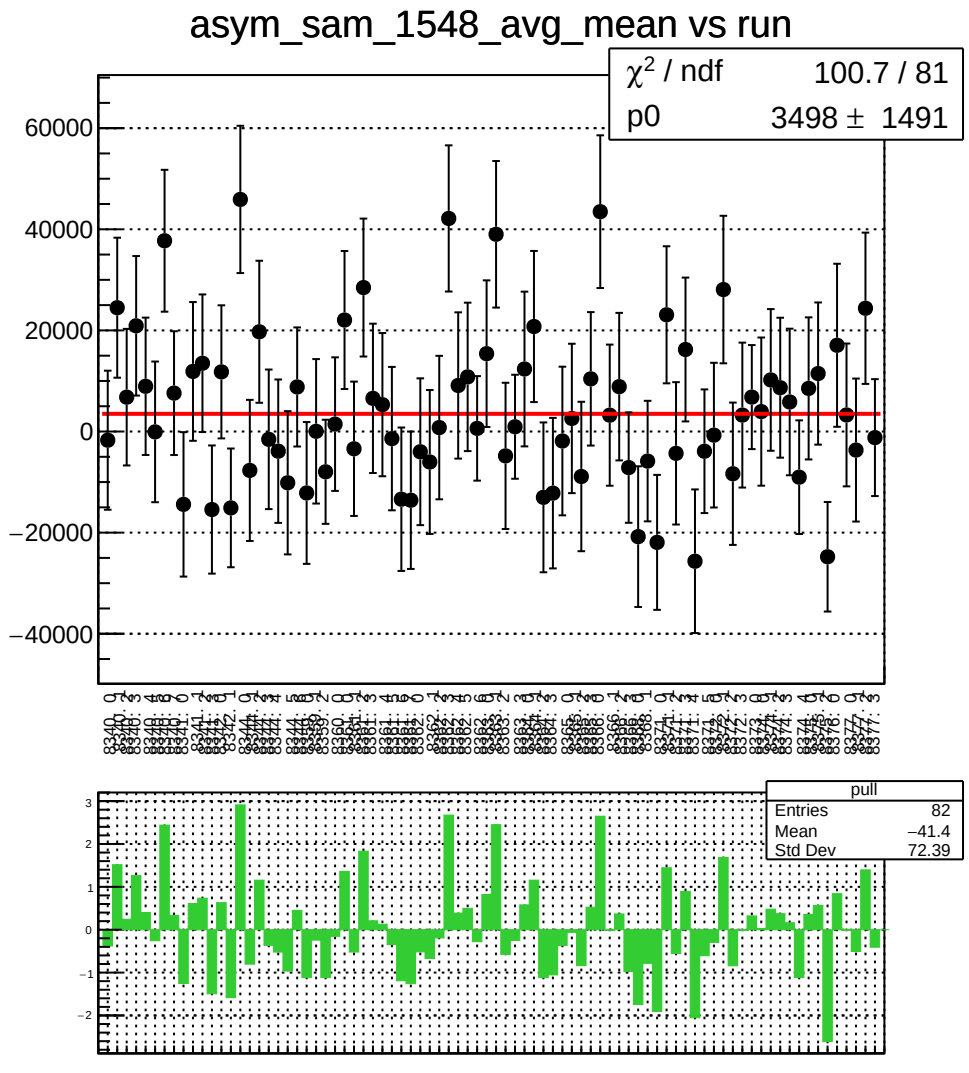

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 98.67 / 81
p0 134.1 ± 119.2
pull
Entries 82
Mean 181.7
Std Dev 139.5
pull1D
Entries 82
Mean −0.008802
Std Dev 1.097

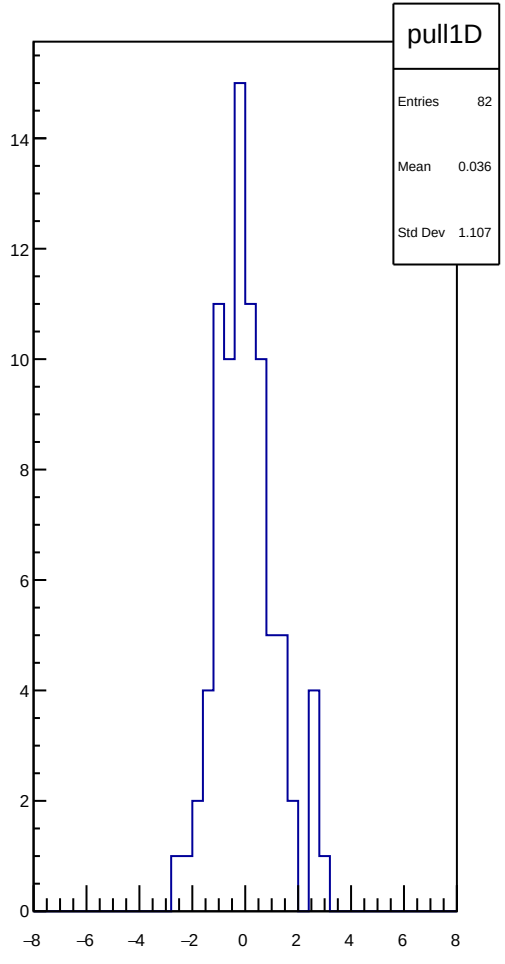

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 9487 / 81
p0 107.4 ± 0.08427
180
160
140
120
100

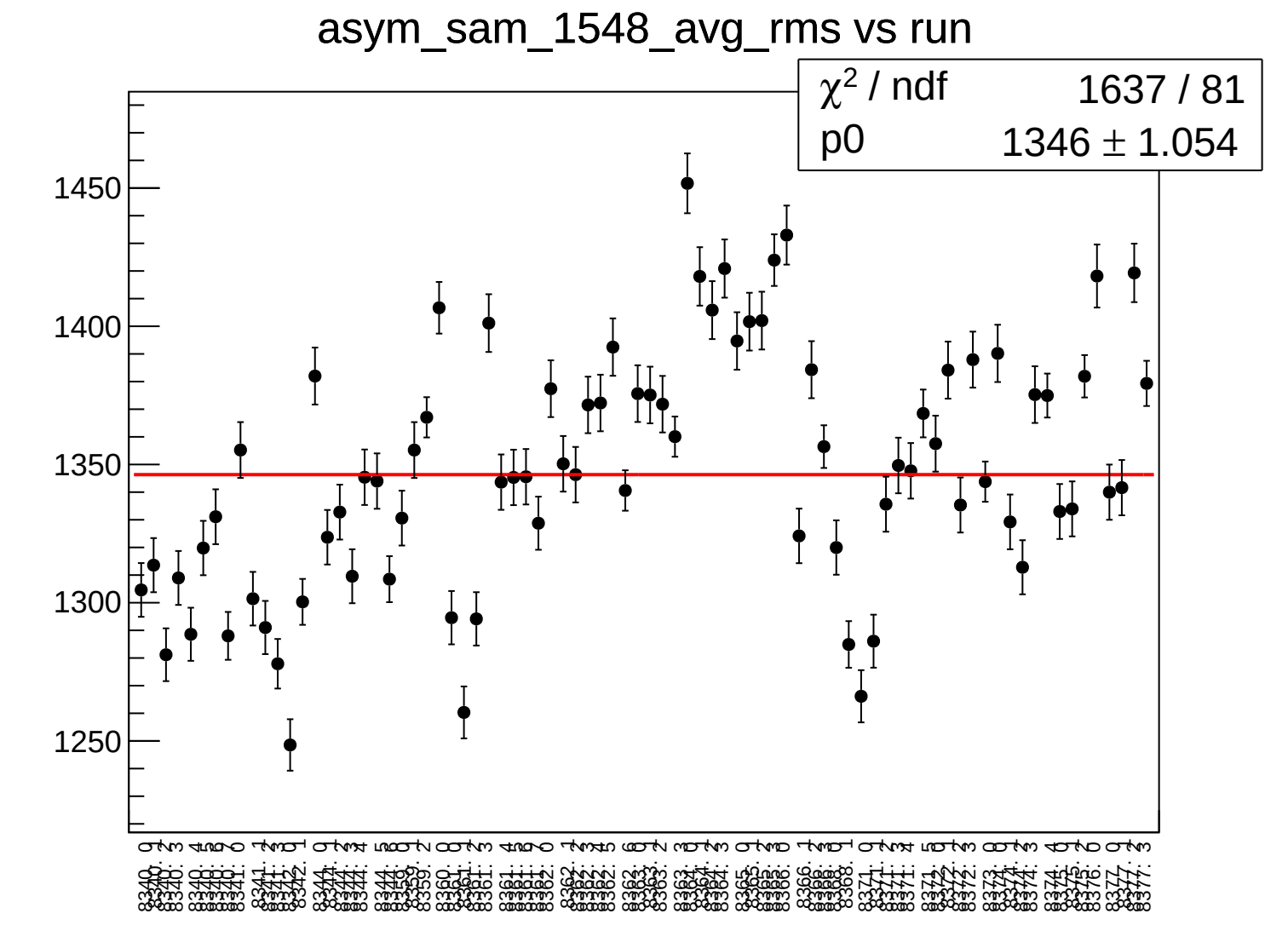

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 101.1 / 81
p0 −3388 ± 1486
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −38.6
Std Dev 69.35
3
2
1
0
−1
−2
−3

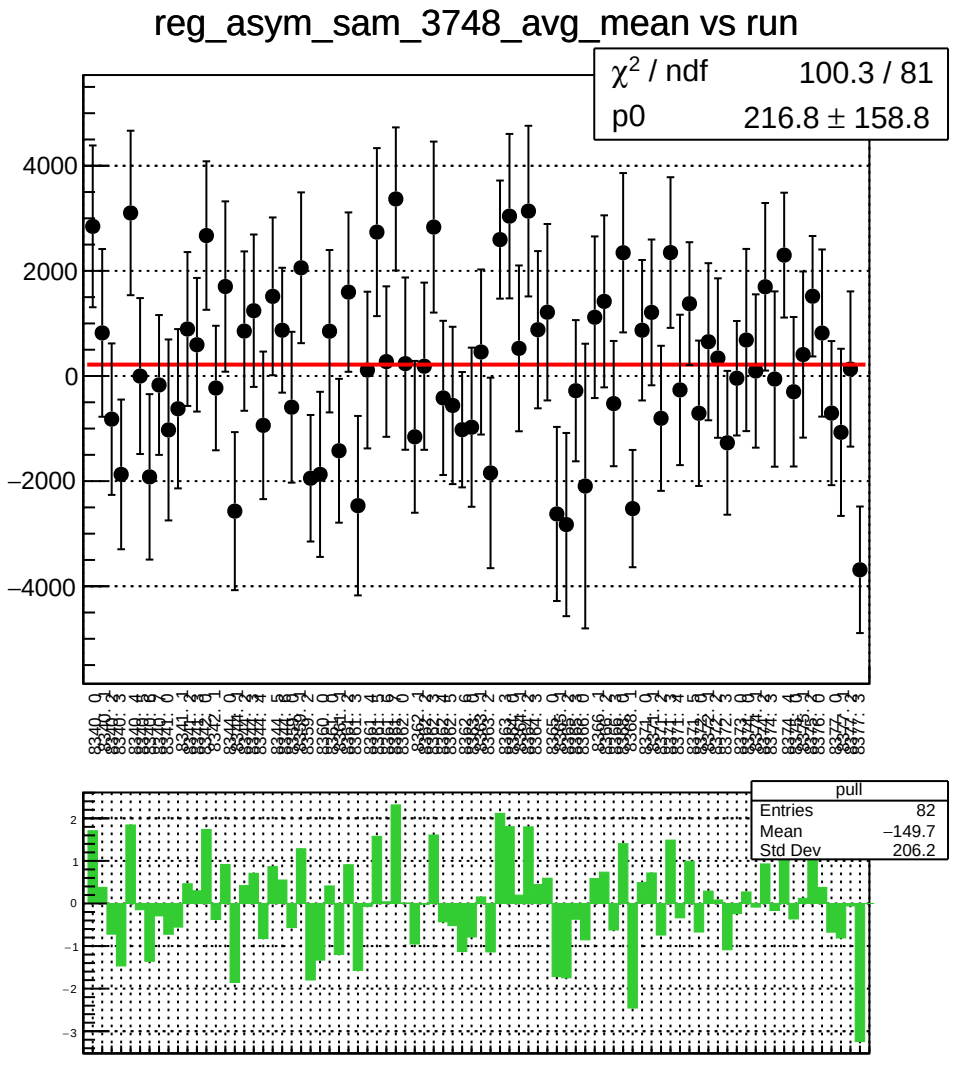

pull1D
Entries 82
Mean −0.03618
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

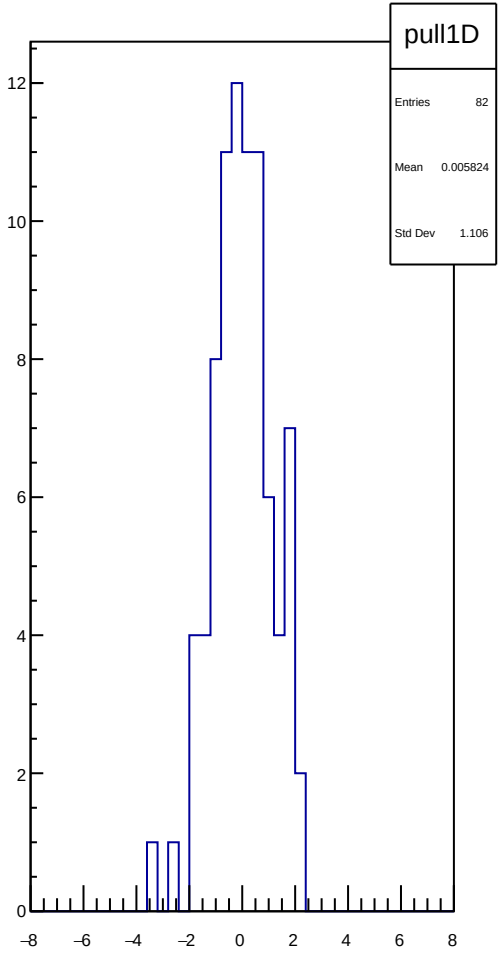

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 1620 / 81
p0 1342 ± 1.051
1450
1400
1350
1300
1250

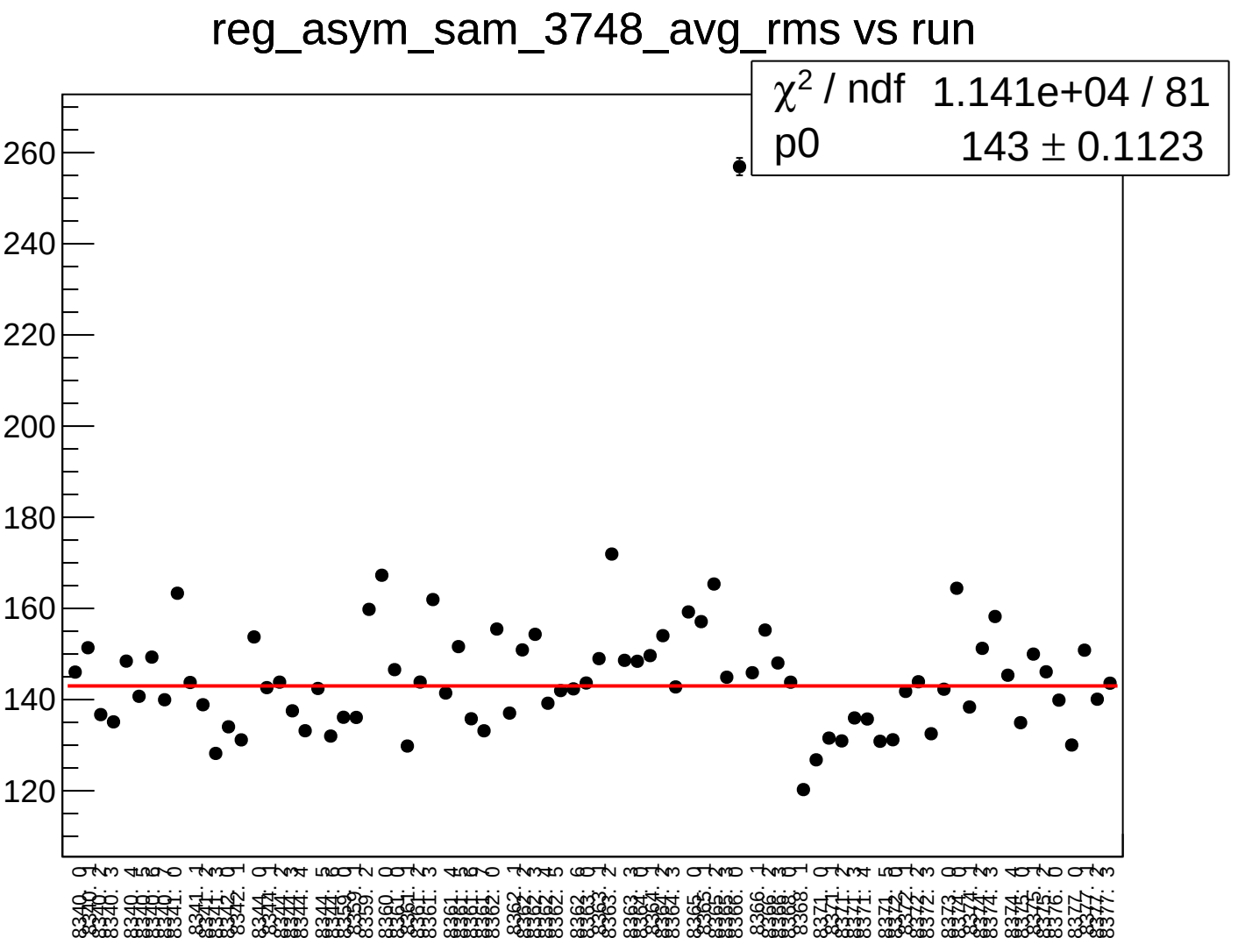

asym_sam_1548_avg_mean vs run
χ² / ndf 100.7 / 81
p0 3498 ± 1491
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −41.4
Std Dev 72.39
3
2
1
0
−1
−2

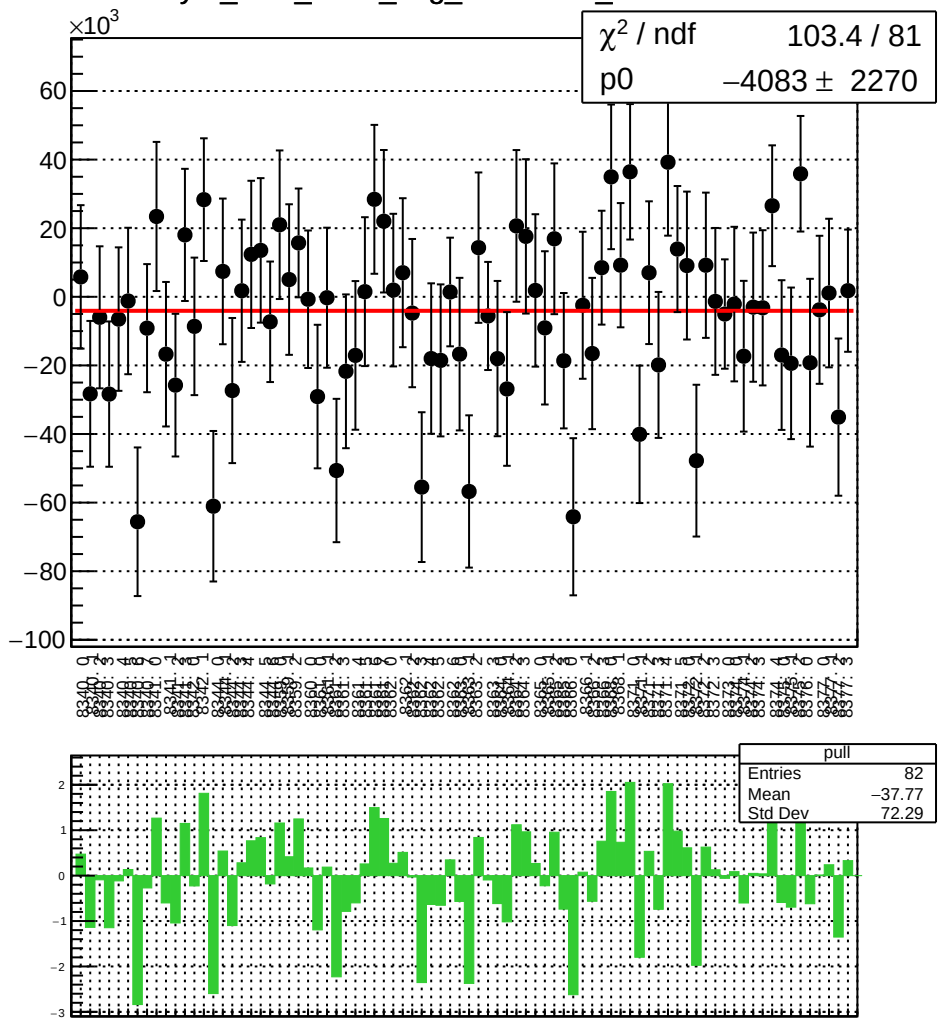

pull1D
Entries 82
Mean 0.036
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

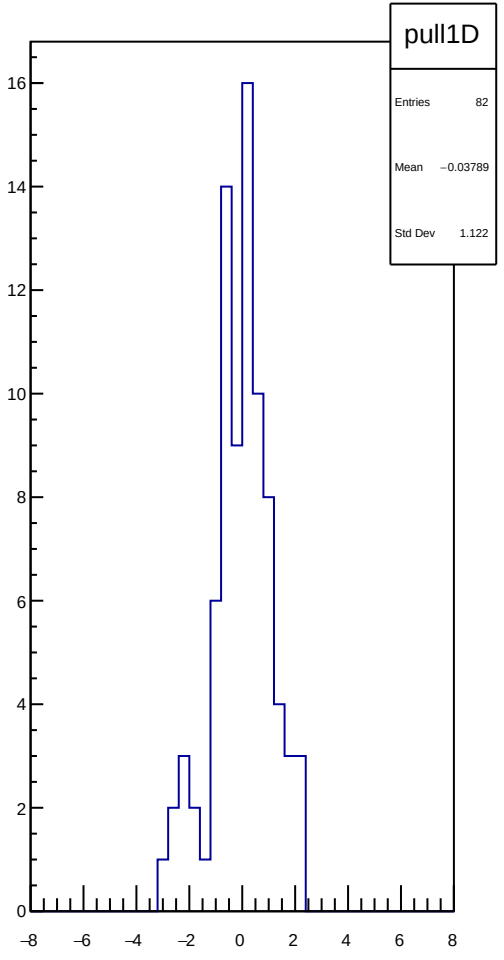

asym_sam_1548_avg_rms vs run
χ² / ndf 1637 / 81
p0 1346 ± 1.054
1450
1400
1350
1300
1250

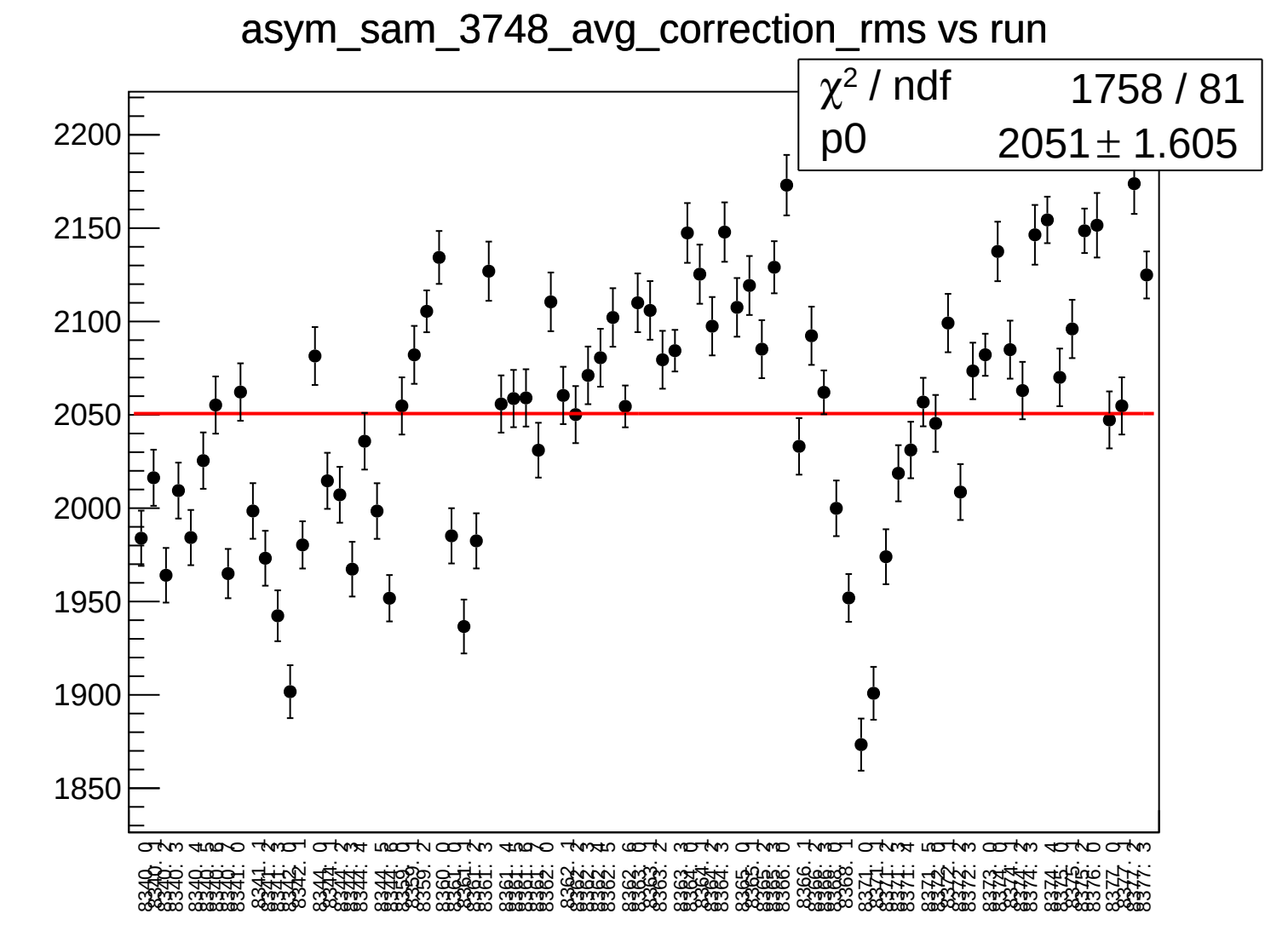

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 100.3 / 81
p0 216.8 ± 158.8
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −149.7
Std Dev 206.2
2
1
0
−1
−2
−3

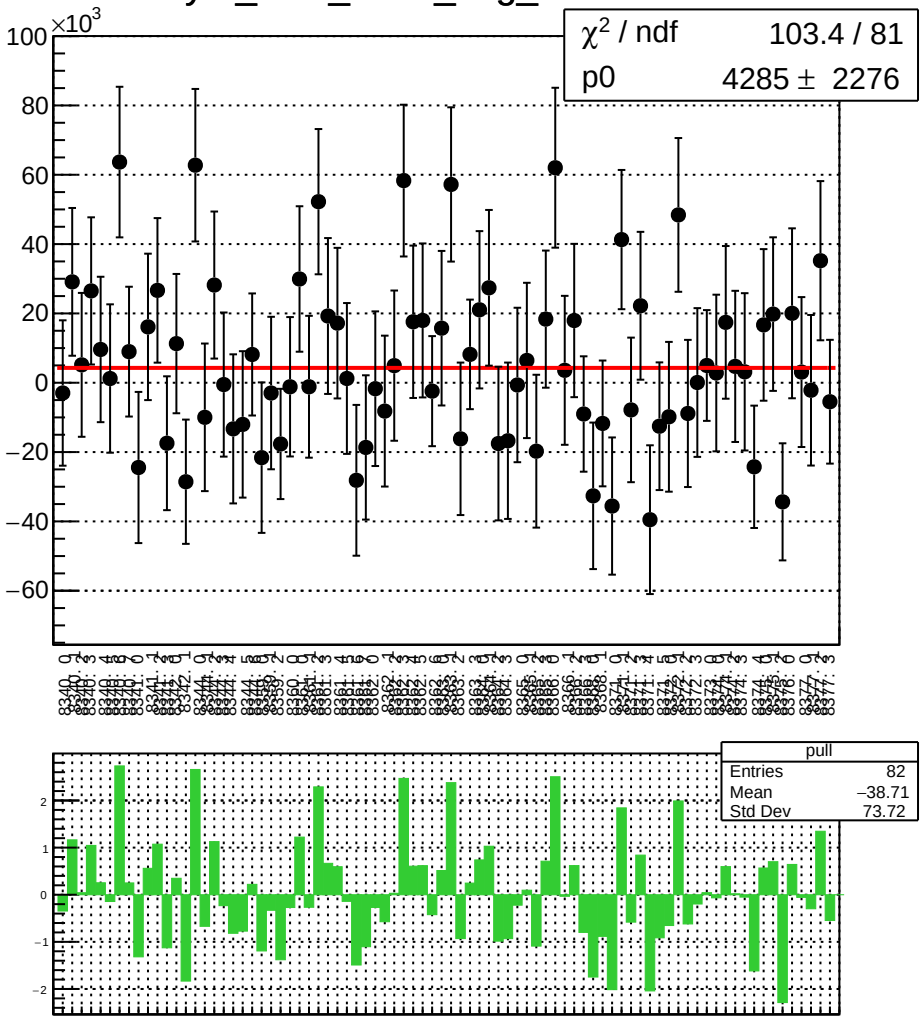

pull1D
Entries 82
Mean 0.005824
Std Dev 1.106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

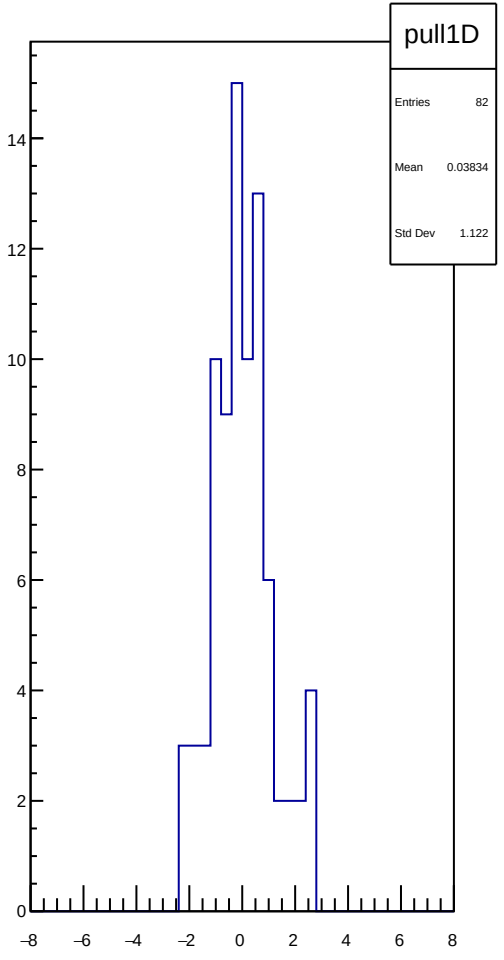

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.141e+04 / 81
p0 143 ± 0.1123
260
240
220
200
180
160
140
120

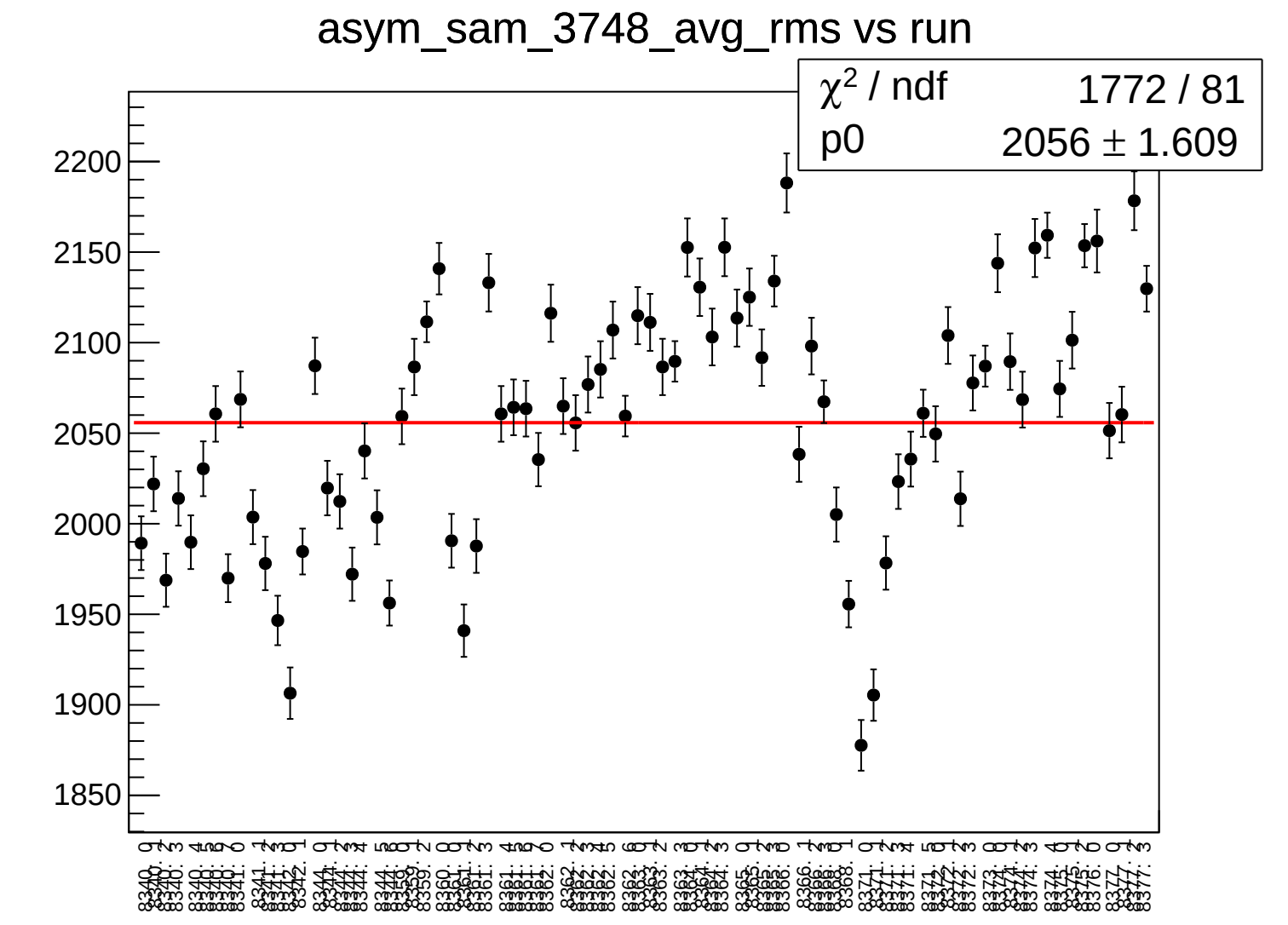

asym_sam_3748_avg_correction_mean vs run
×10^3
χ^2 / ndf 103.4 / 81
p0 −4083 ± 2270
pull
Entries 82
Mean −37.77
Std Dev 72.29

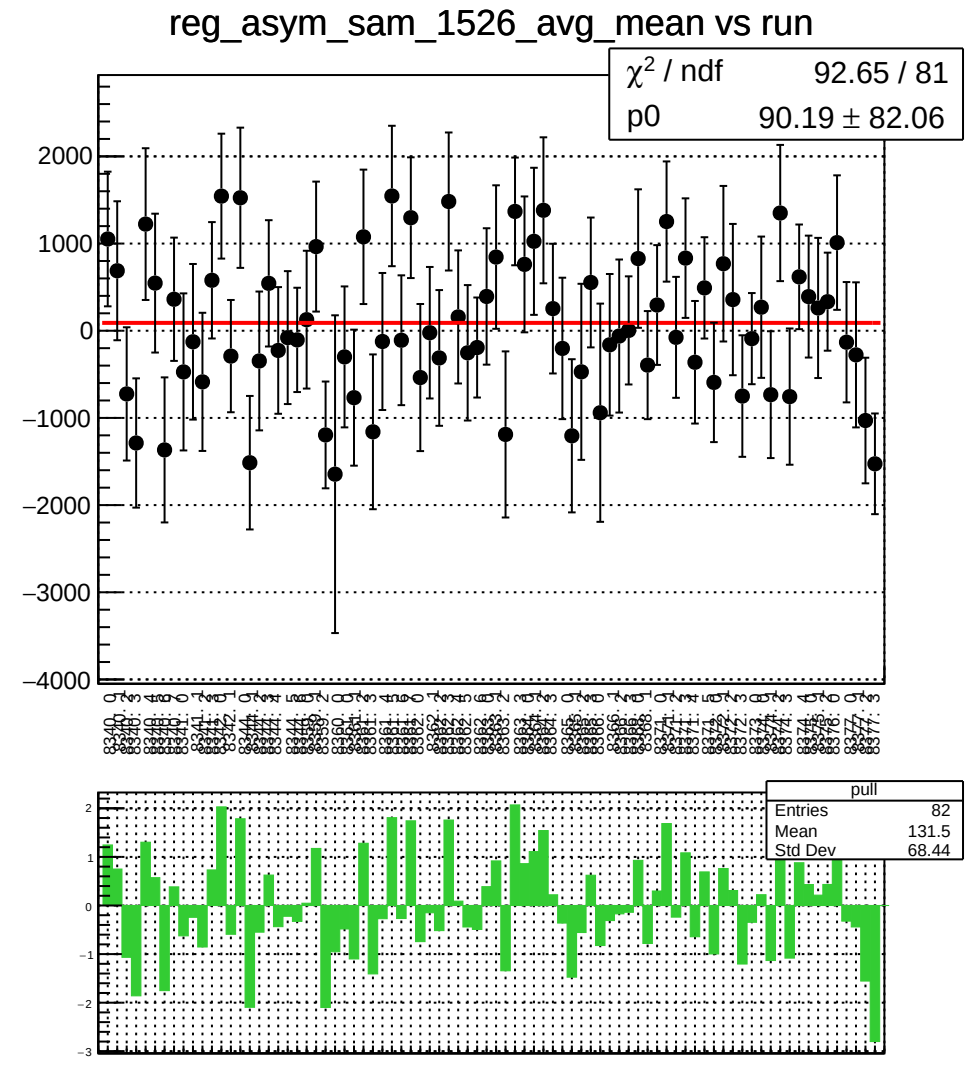

pull1D
Entries 82
Mean −0.03789
Std Dev 1.122

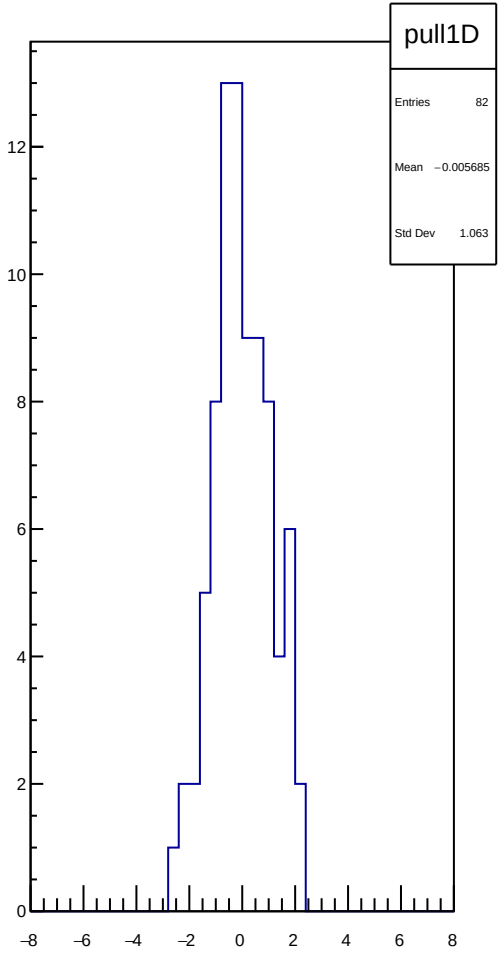

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 1758 / 81
p0 2051 ± 1.605
2200
2150
2100
2050
2000
1950
1900
1850

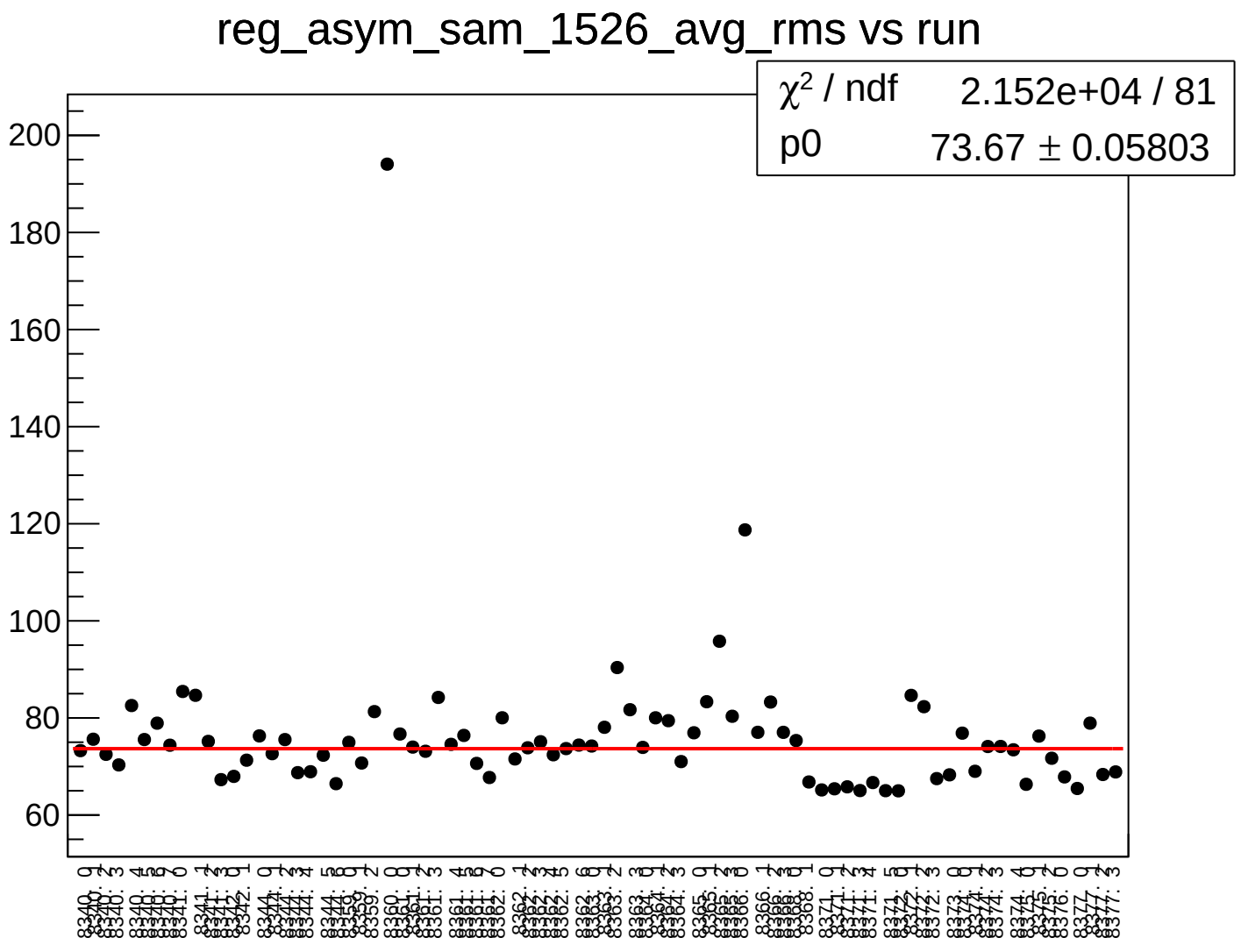

asym_sam_3748_avg_mean vs run
χ² / ndf 103.4 / 81
p0 4285 ± 2276
×10³
pull
Entries 82
Mean −38.71
Std Dev 73.72

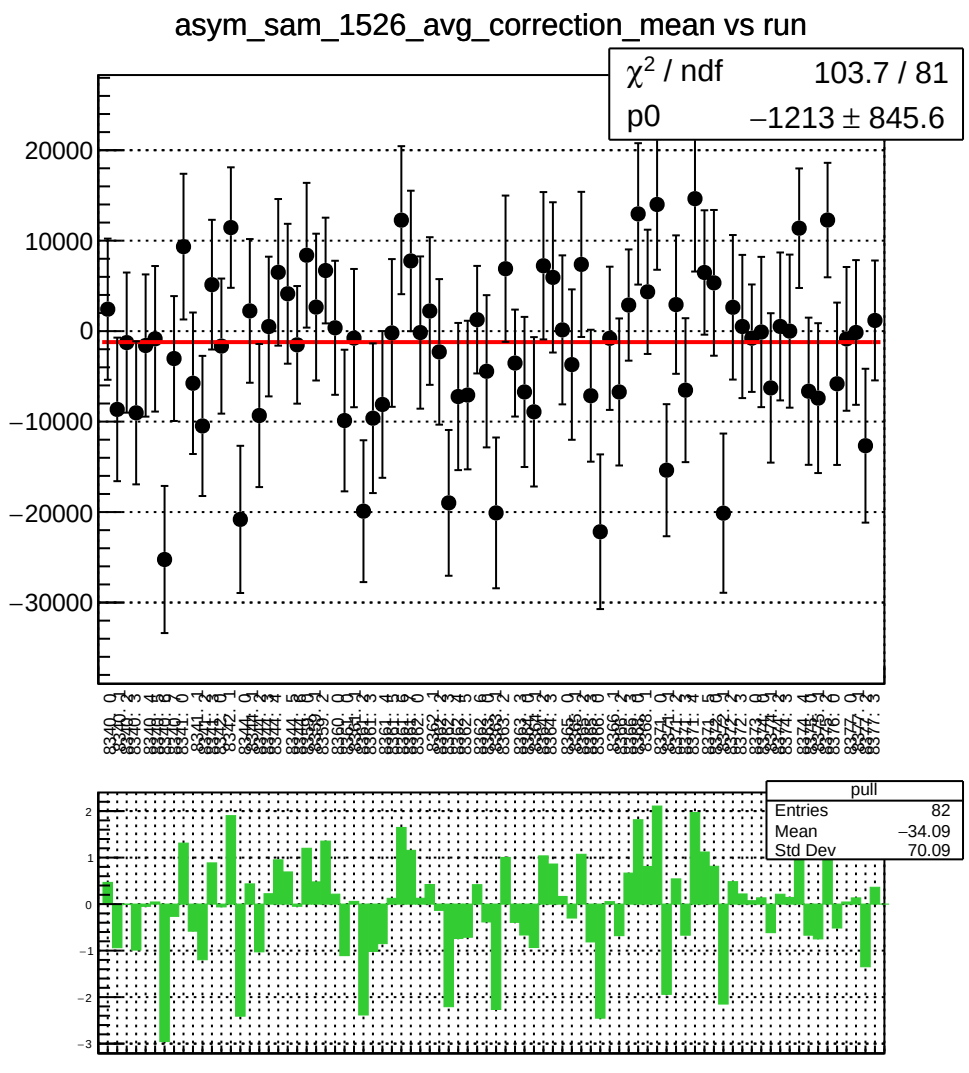

pull1D
Entries 82
Mean 0.03834
Std Dev 1.122

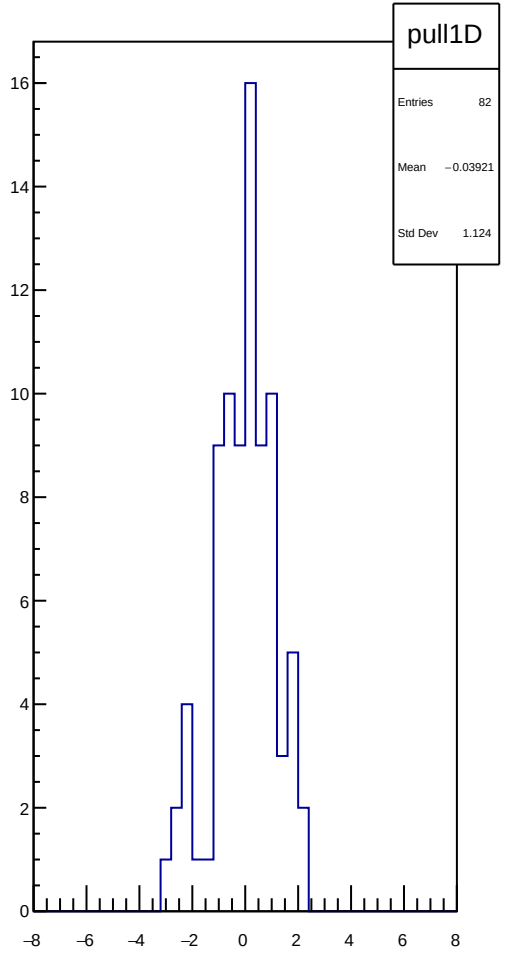

asym_sam_3748_avg_rms vs run
χ² / ndf 1772 / 81
p0 2056 ± 1.609
2200
2150
2100
2050
2000
1950
1900
1850

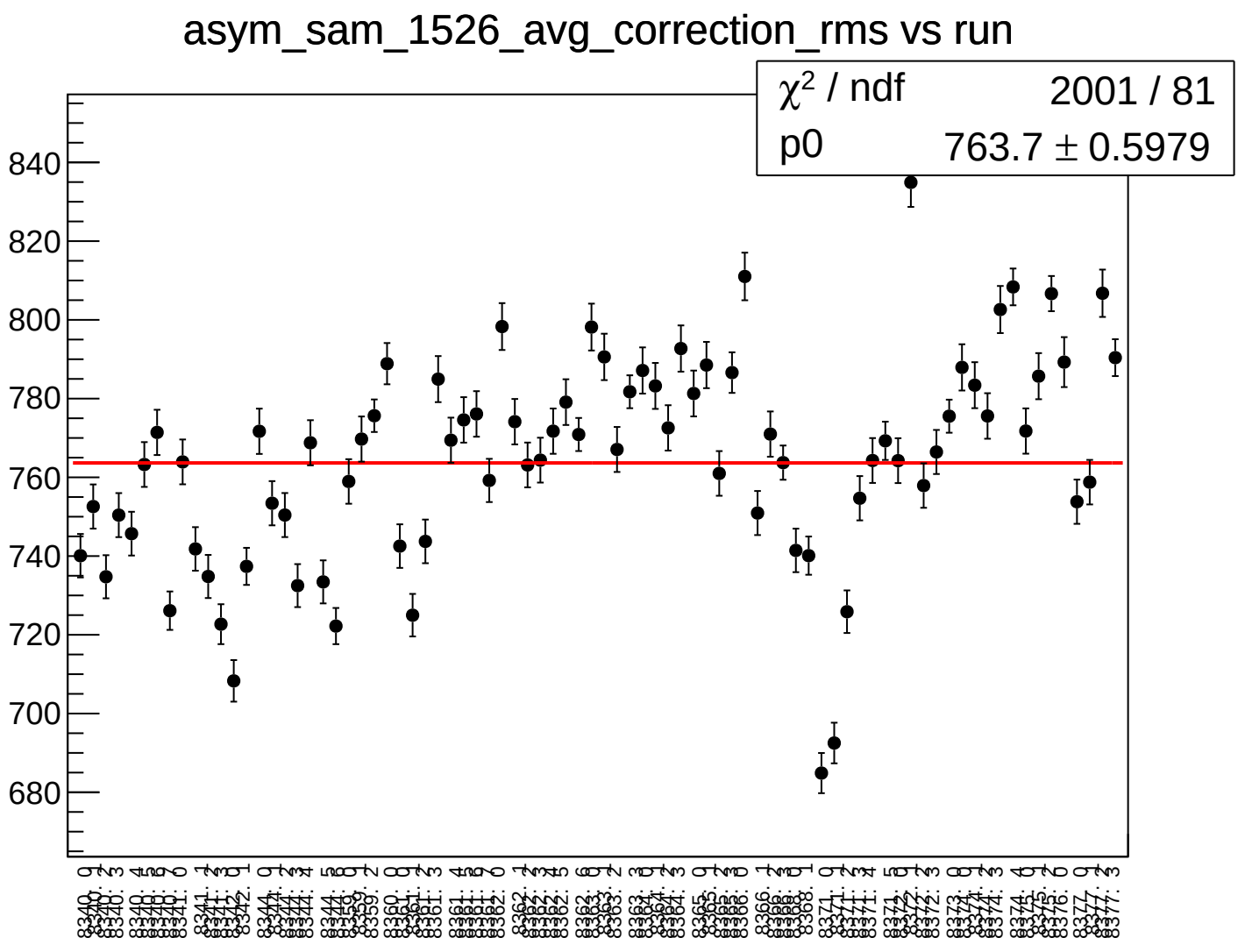

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 92.65 / 81
p0 90.19 ± 82.06
pull
Entries 82
Mean 131.5
Std Dev 68.44

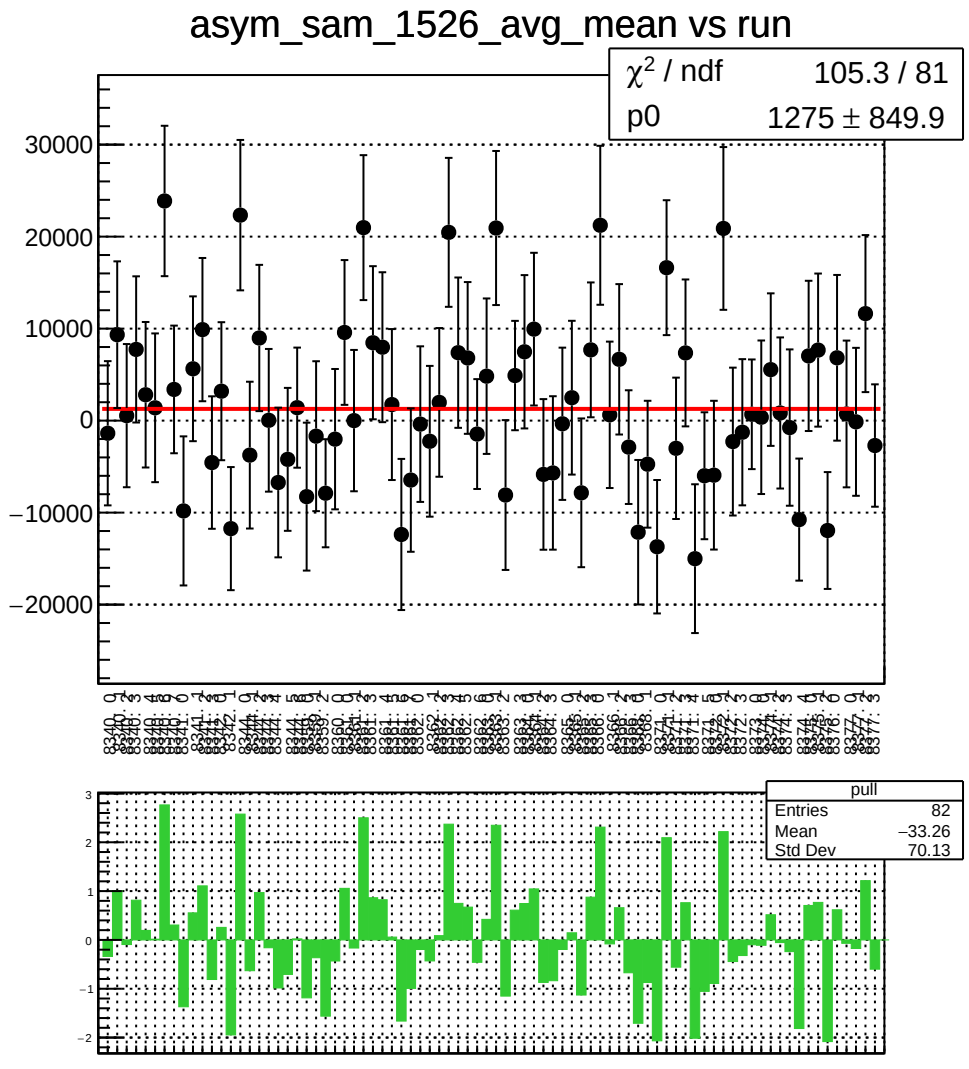

pull1D
Entries 82
Mean −0.005685
Std Dev 1.063

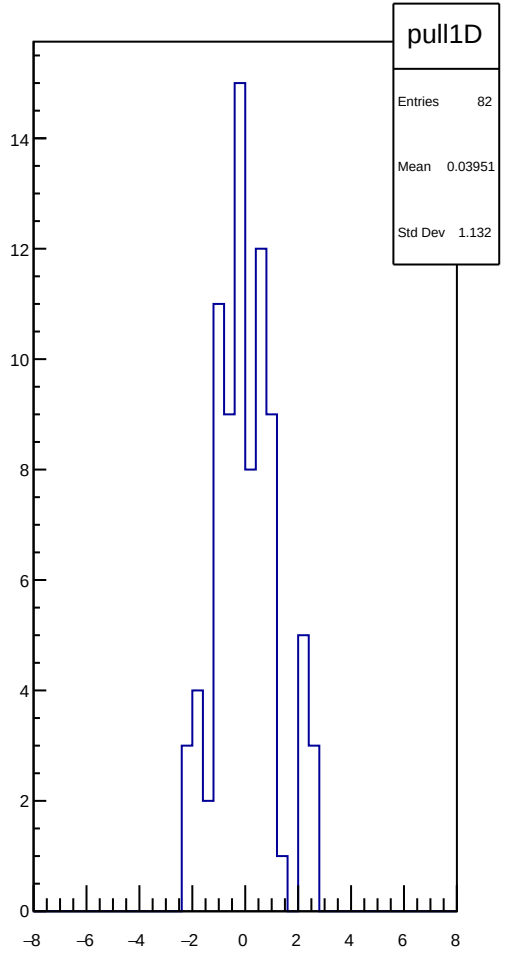

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.152e+04 / 81
p0 73.67 ± 0.05803
200
180
160
140
120
100
80
60

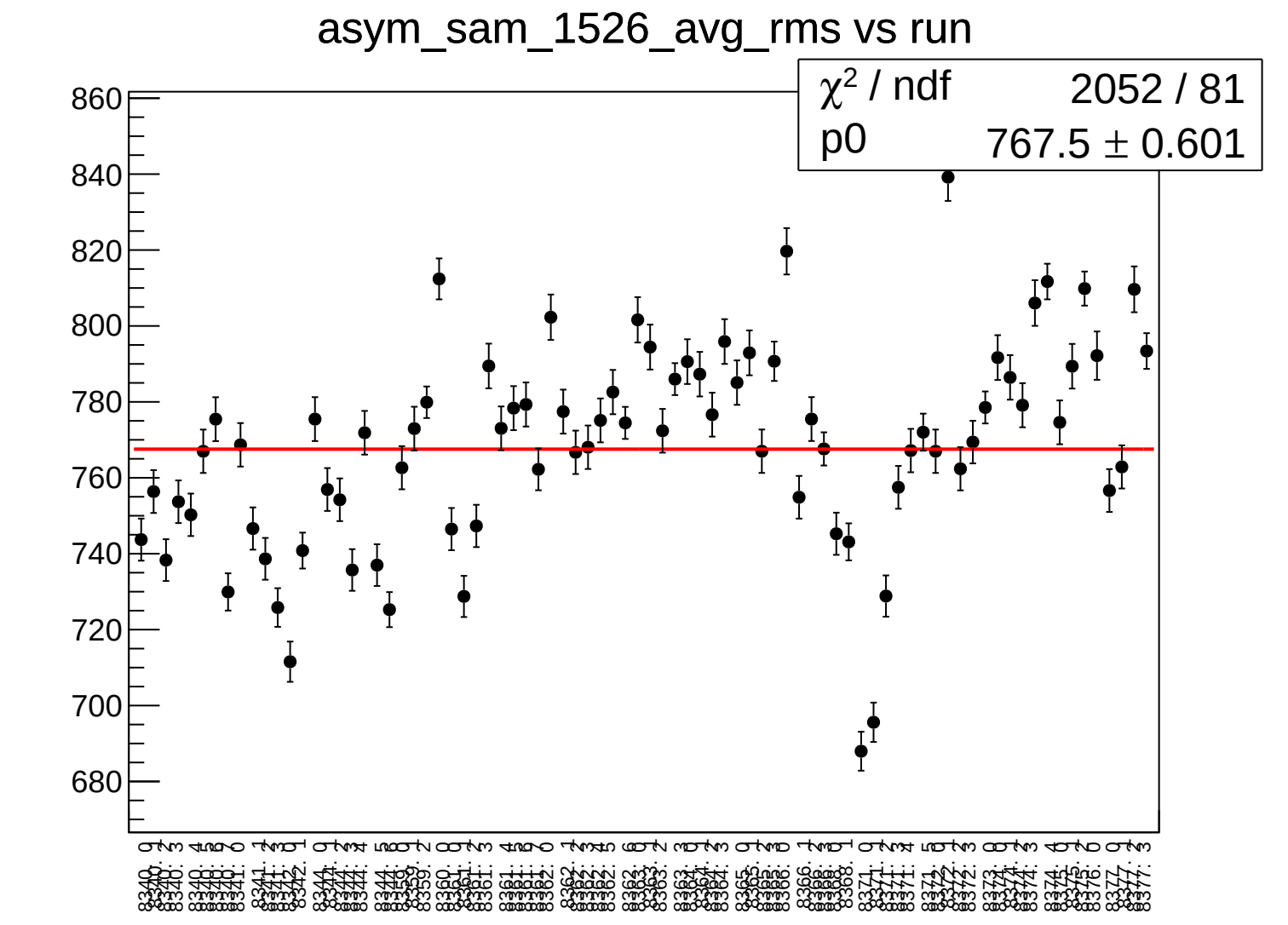

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 103.7 / 81
p0 −1213 ± 845.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −34.09
Std Dev 70.09
2
1
0
−1
−2
−3

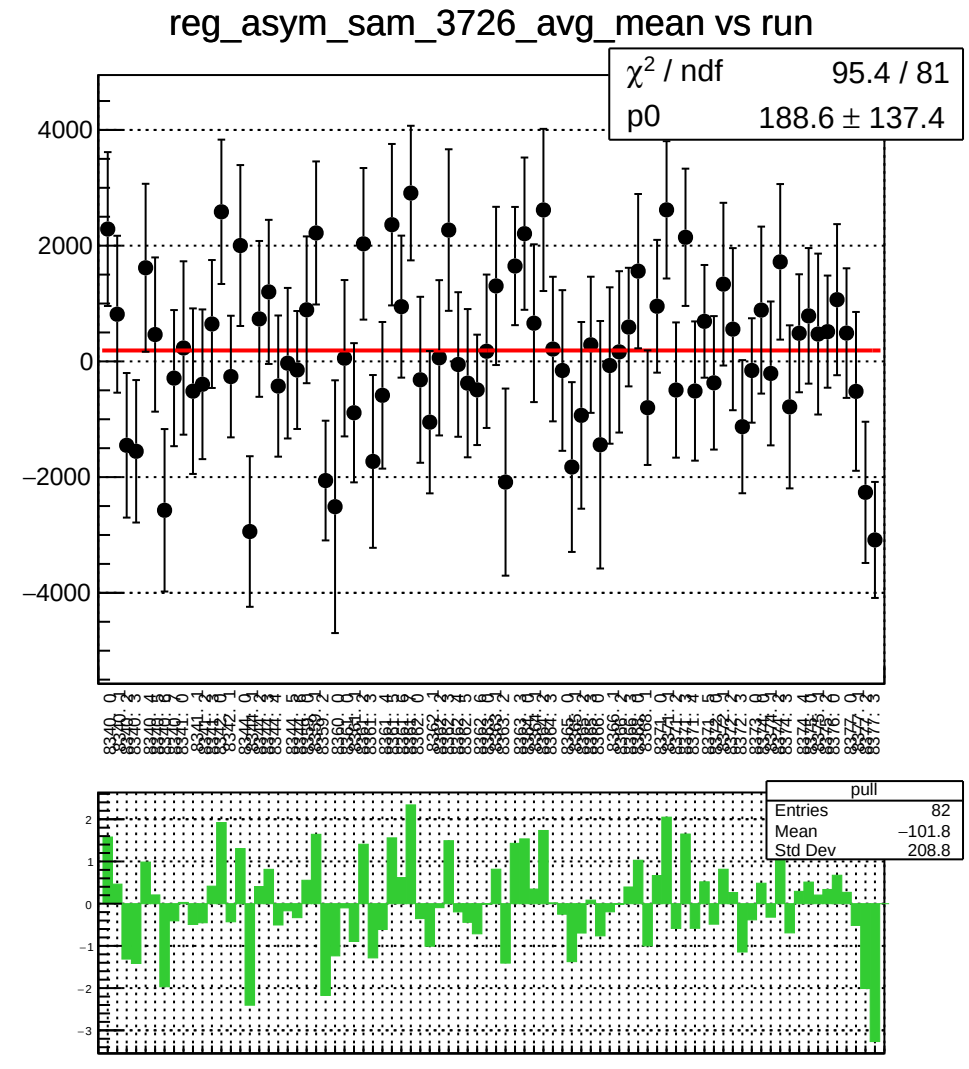

pull1D
Entries 82
Mean −0.03921
Std Dev 1.124
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

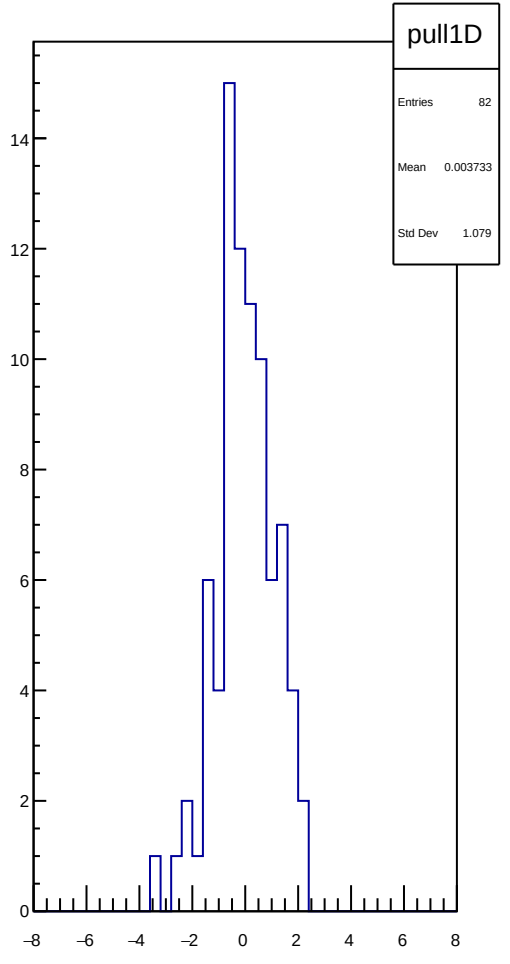

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 2001 / 81
p0 763.7 ± 0.5979
840
820
800
780
760
740
720
700
680

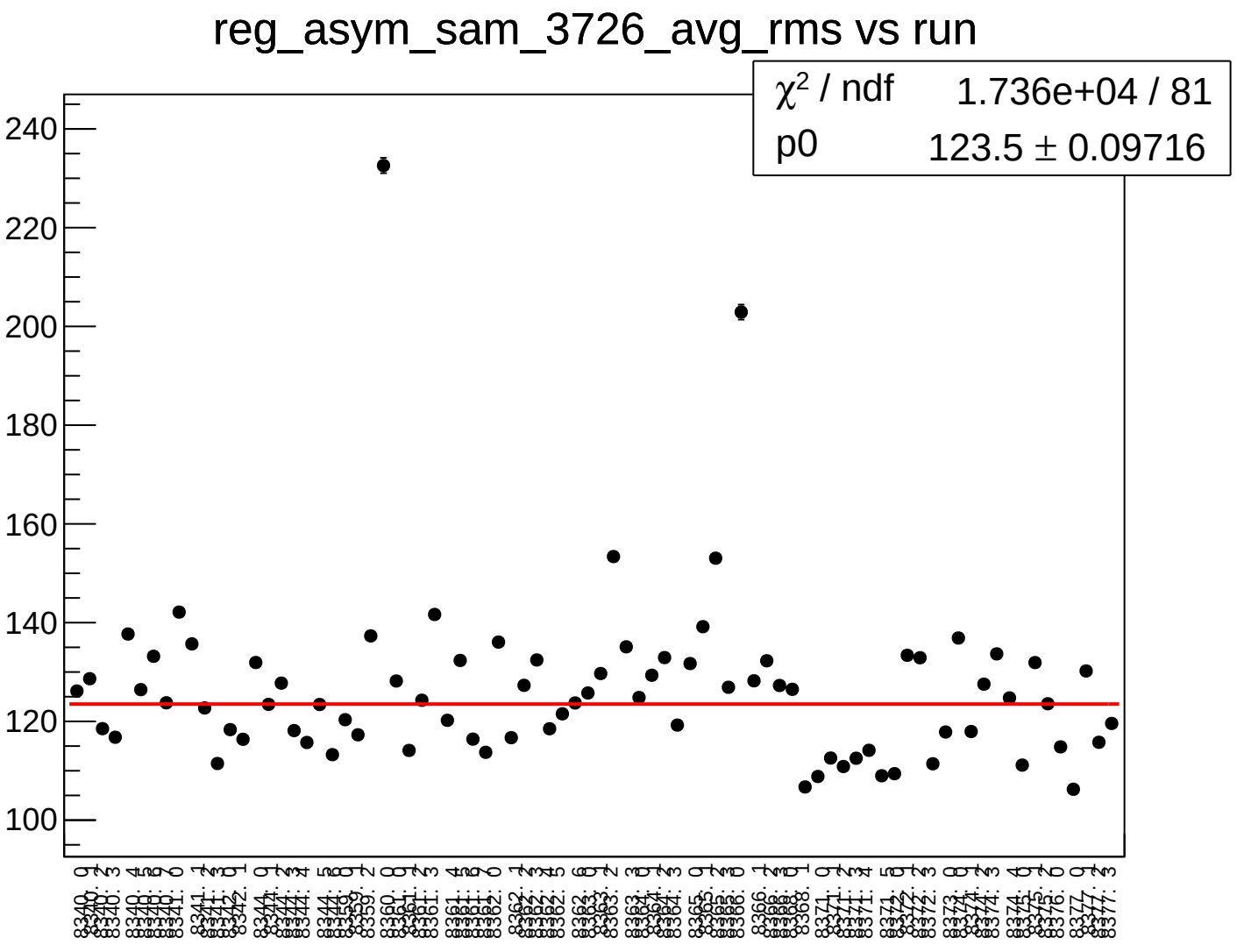

asym_sam_1526_avg_mean vs run
χ² / ndf 105.3 / 81
p0 1275 ± 849.9
30000
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −33.26
Std Dev 70.13
3
2
1
0
−1
−2

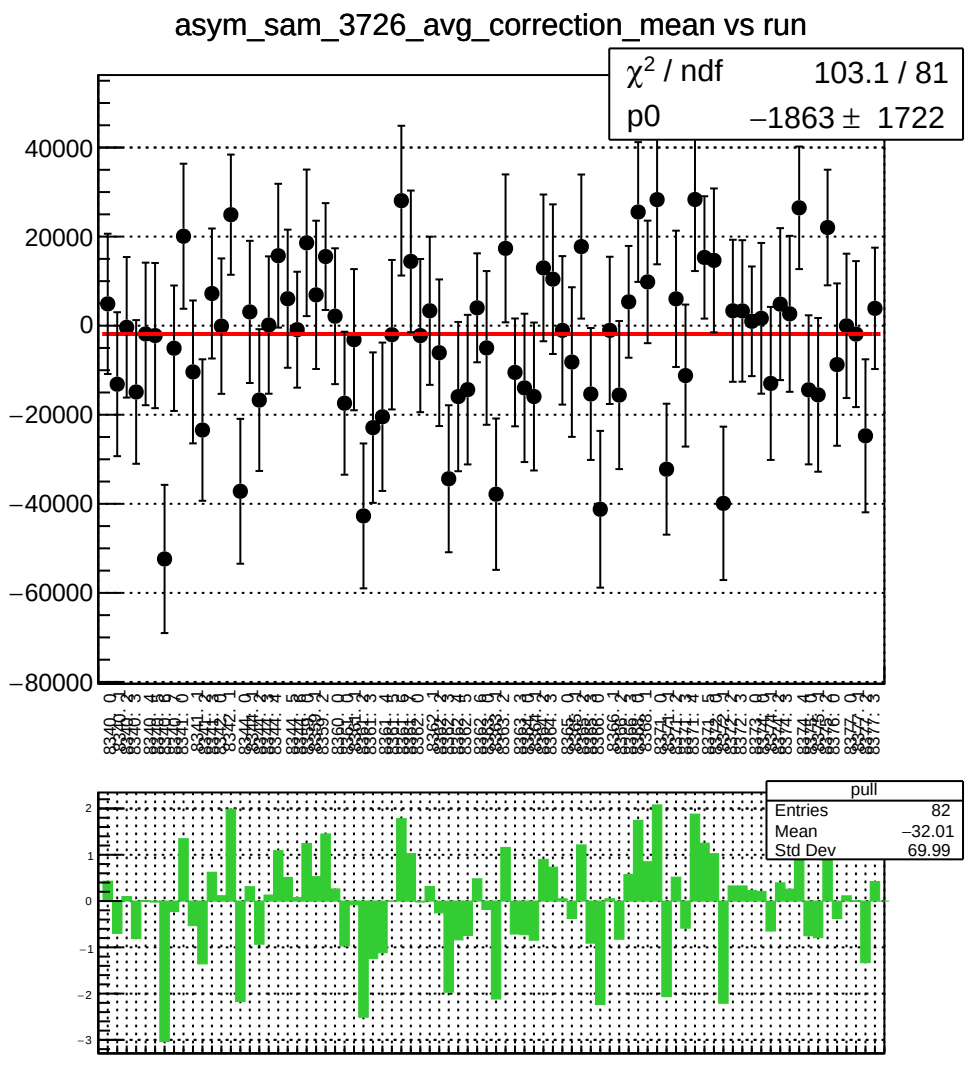

pull1D
Entries 82
Mean 0.03951
Std Dev 1.132
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

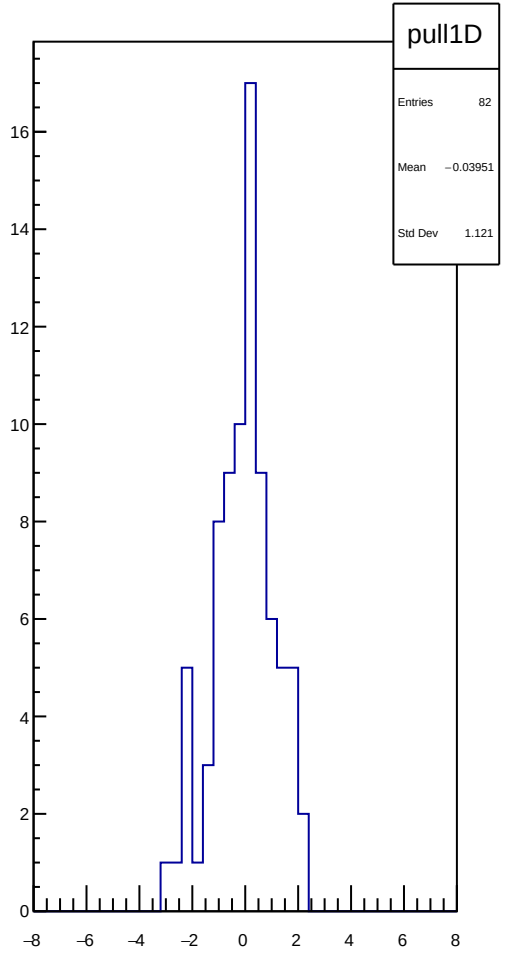

asym_sam_1526_avg_rms vs run
χ² / ndf 2052 / 81
p0 767.5 ± 0.601
860
840
820
800
780
760
740
720
700
680

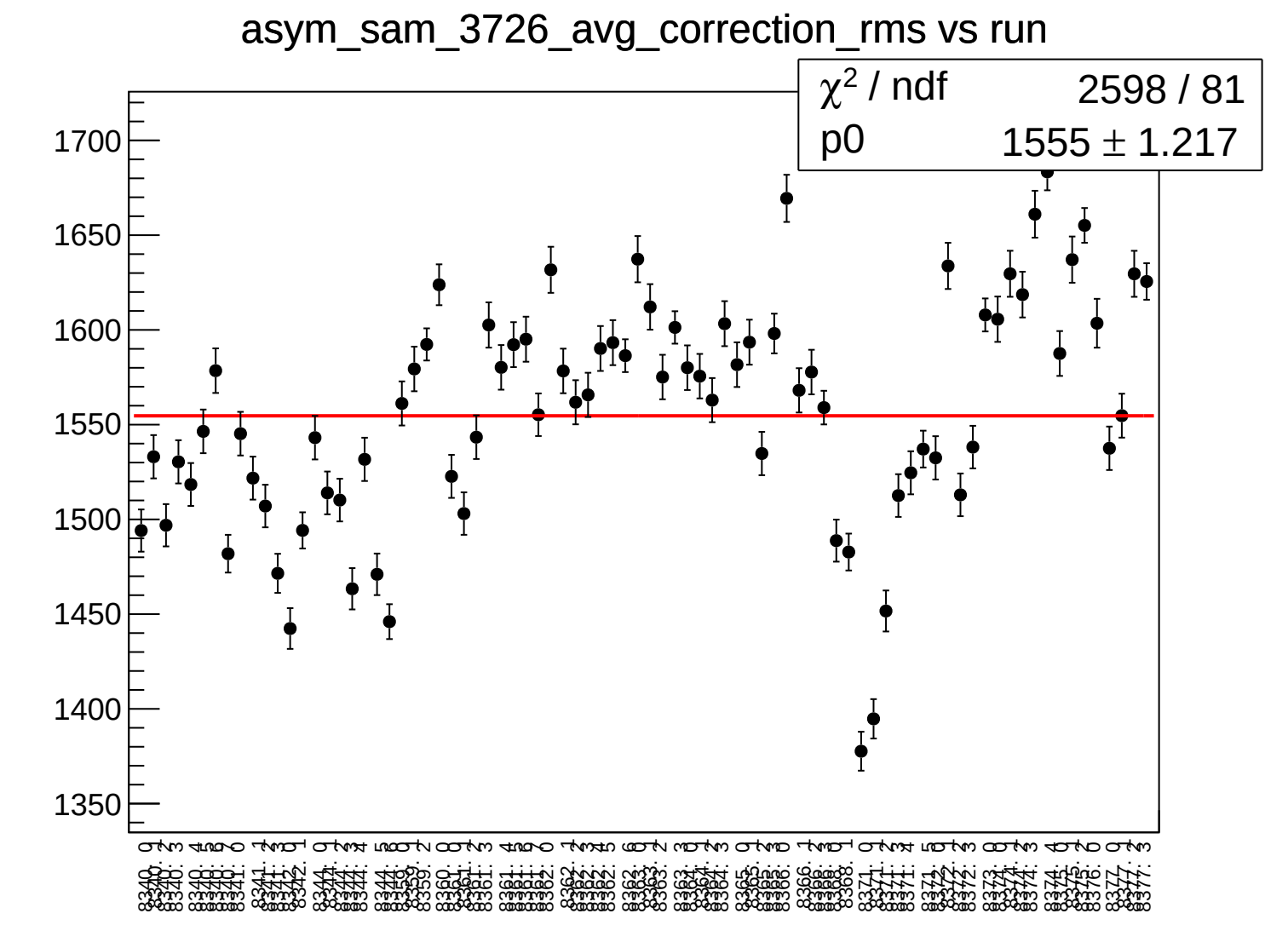

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 95.4 / 81
p0 188.6 ± 137.4
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −101.8
Std Dev 208.8
2
1
0
−1
−2
−3

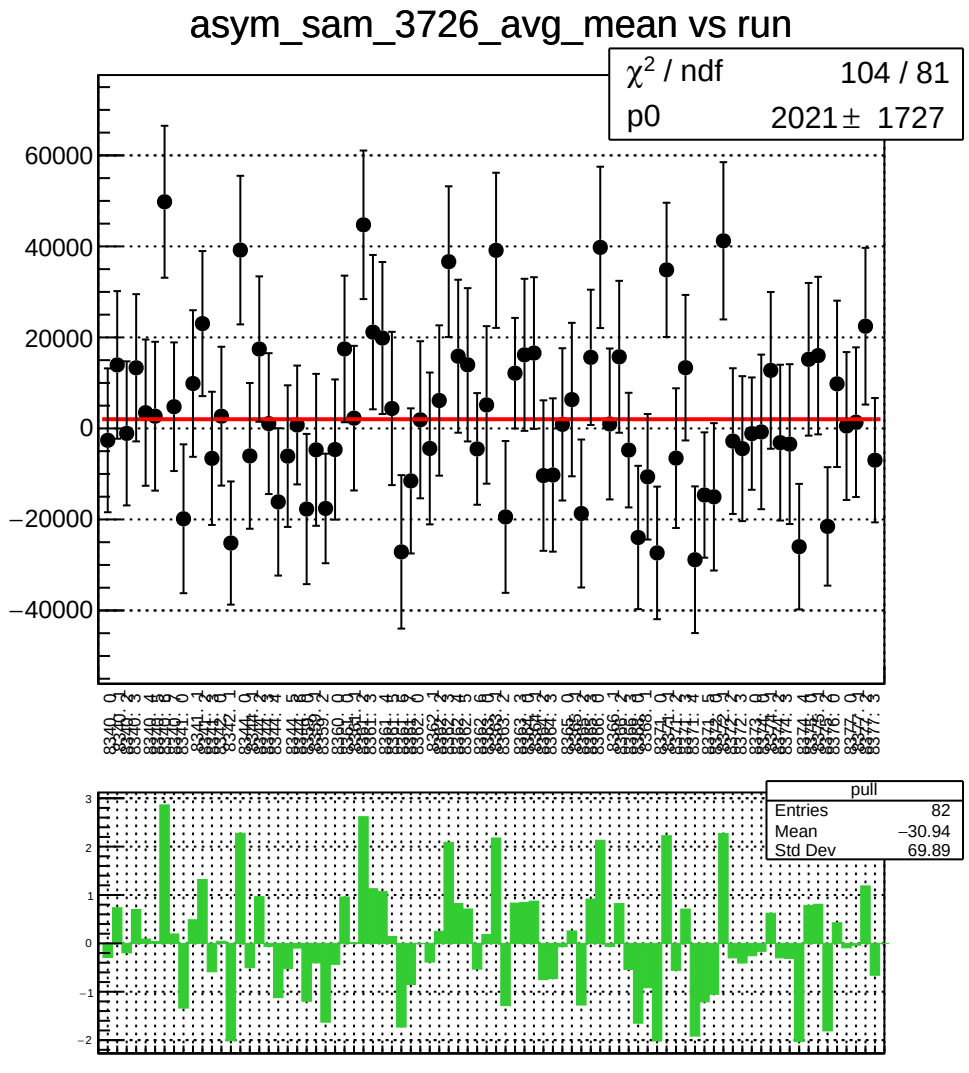

pull1D
Entries 82
Mean 0.003733
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

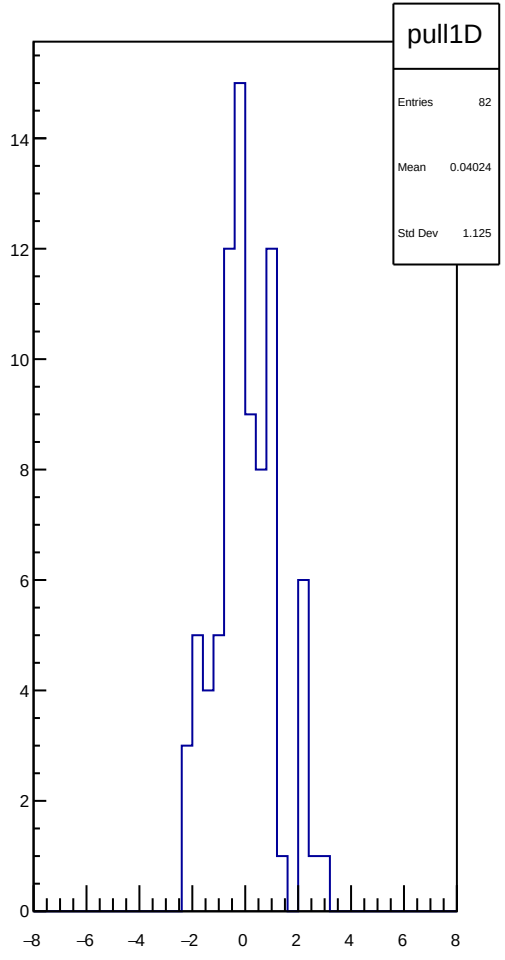

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 1.736e+04 / 81
p0 123.5 ± 0.09716
240
220
200
180
160
140
120
100

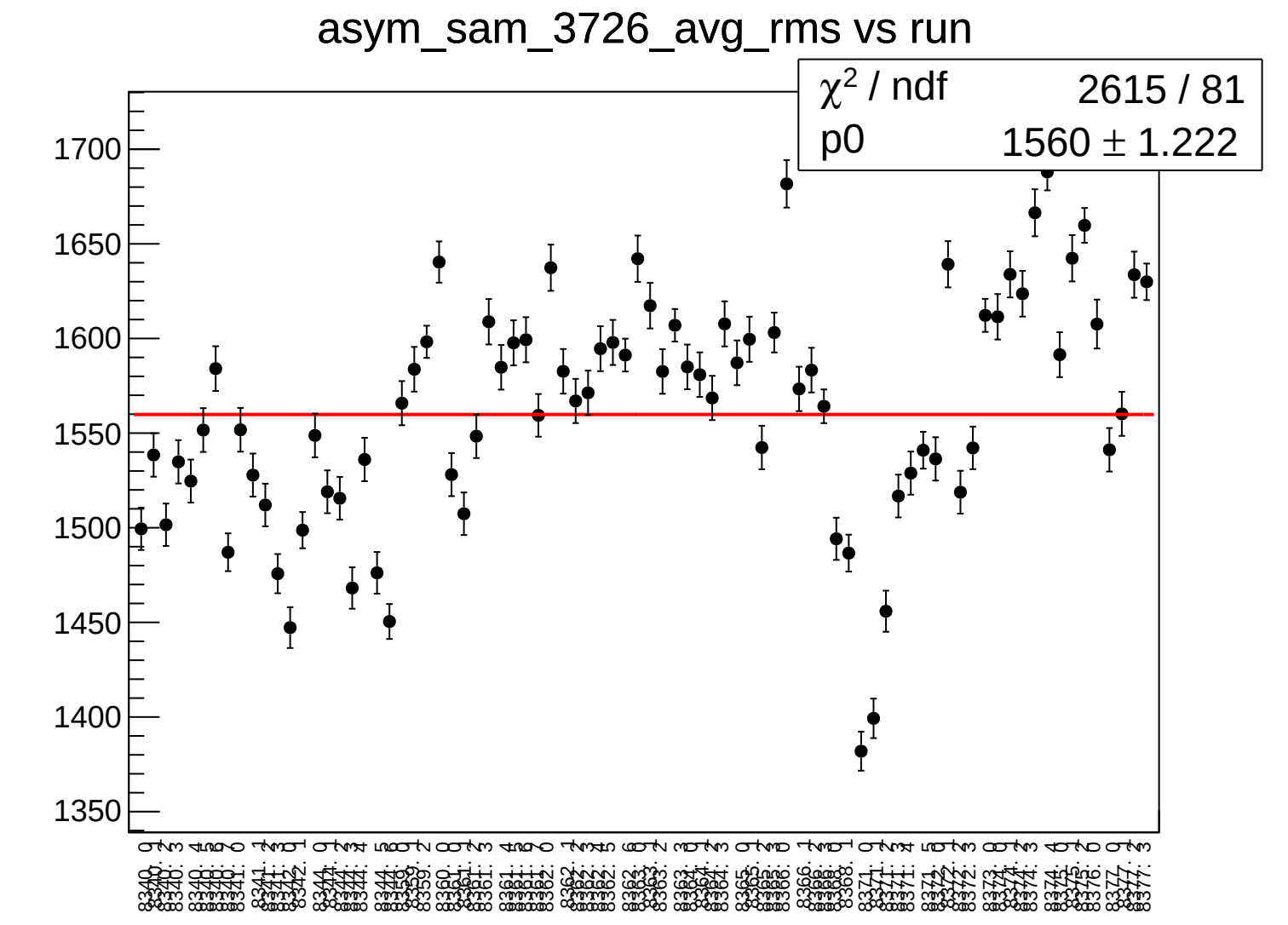

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 103.1 / 81
p0 −1863 ± 1722
pull
Entries 82
Mean −32.01
Std Dev 69.99

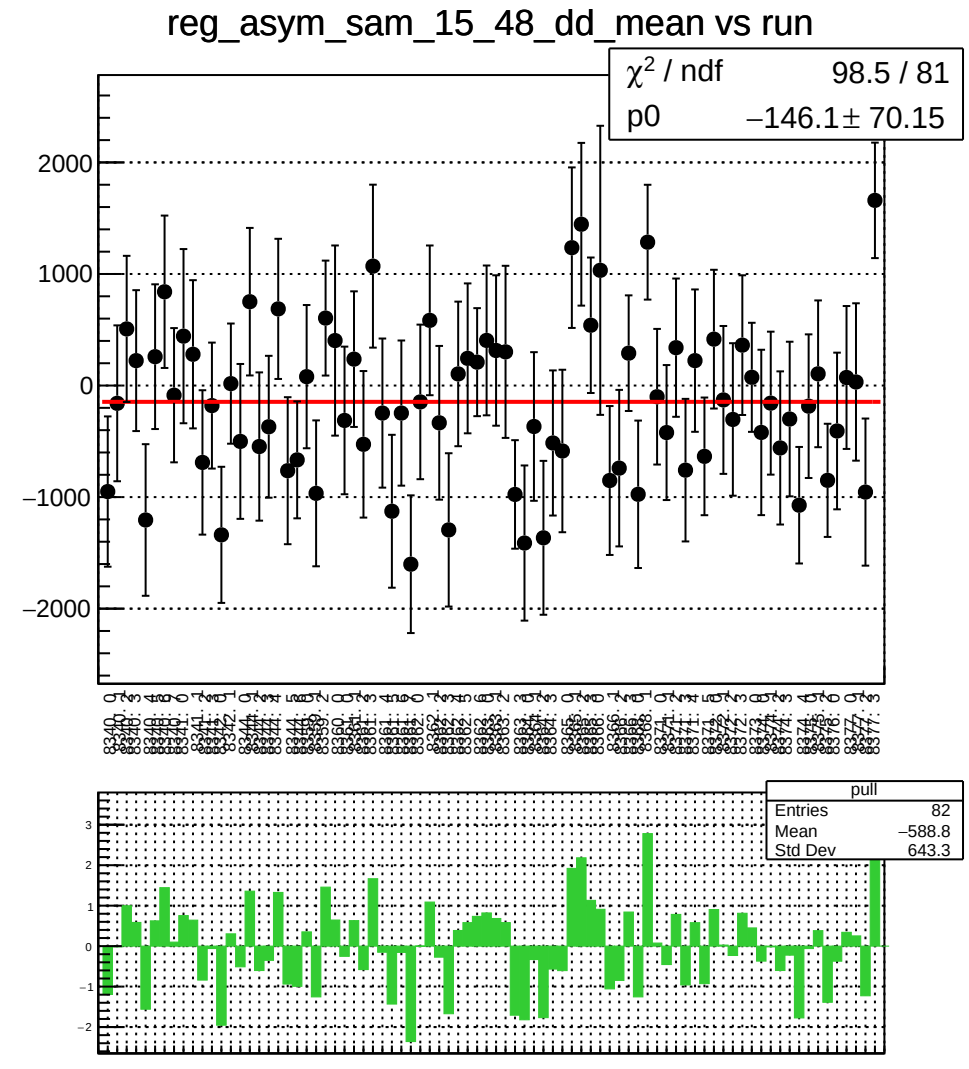

pull1D
Entries 82
Mean −0.03951
Std Dev 1.121

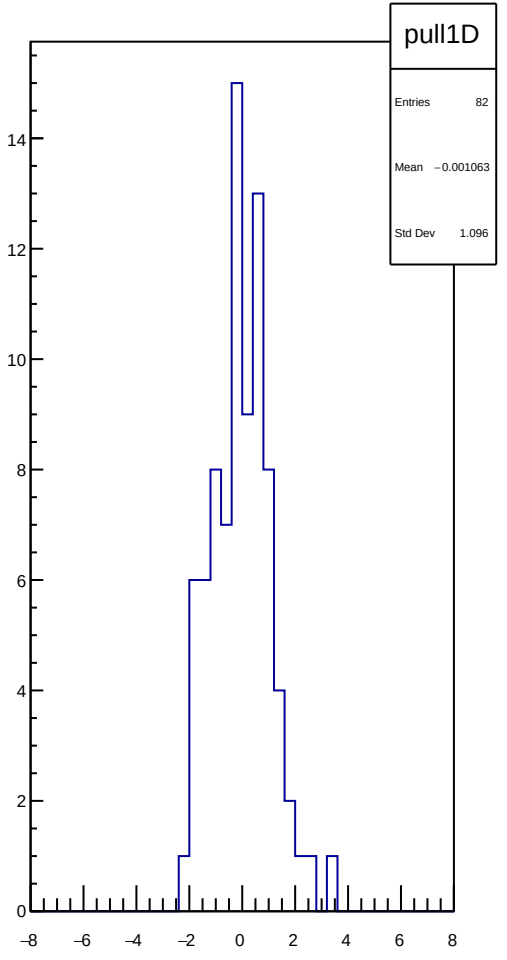

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 2598 / 81
p0 1555 ± 1.217
1700
1650
1600
1550
1500
1450
1400
1350

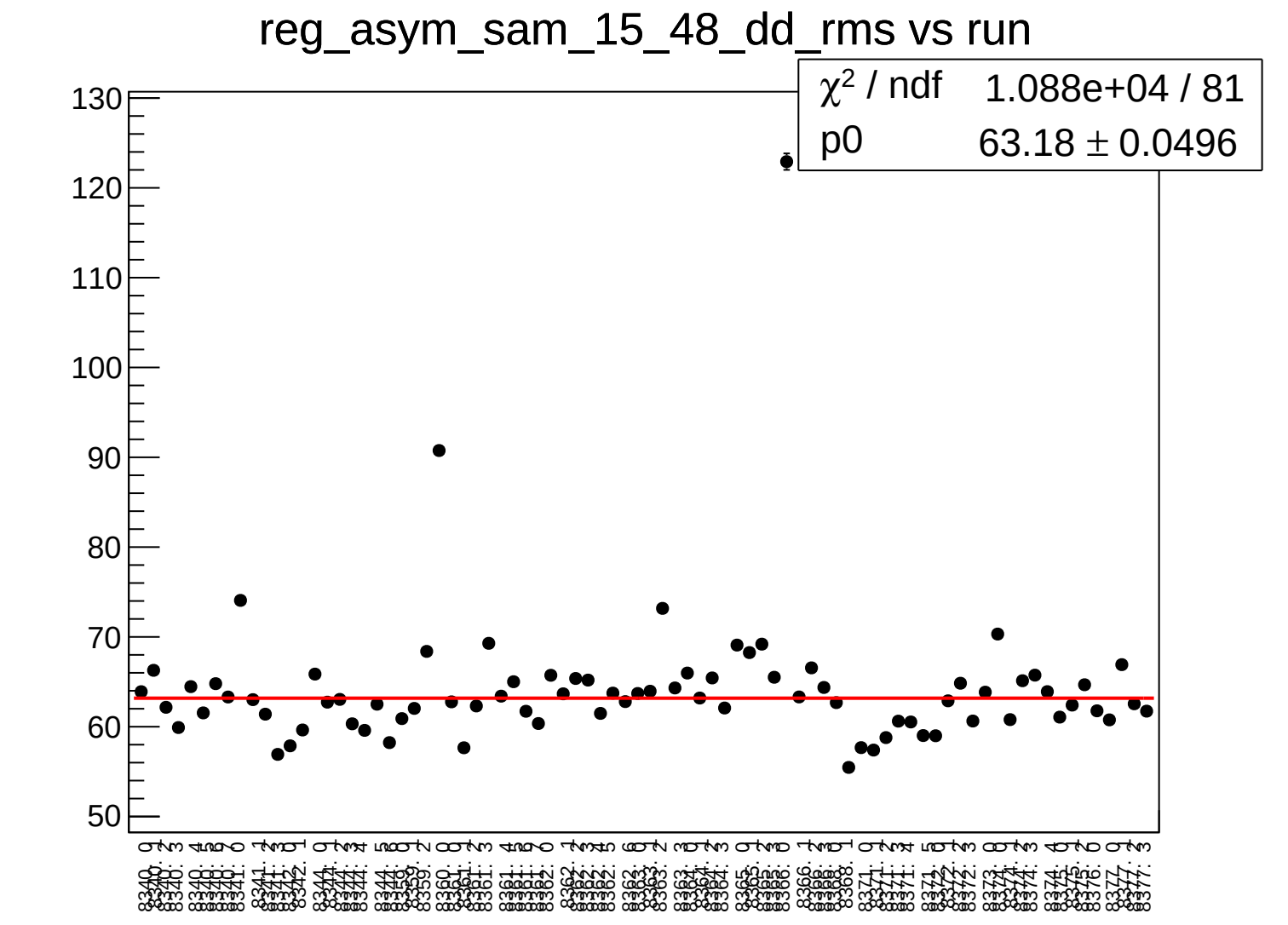

asym_sam_3726_avg_mean vs run
χ² / ndf 104 / 81
p0 2021 ± 1727
pull
Entries 82
Mean −30.94
Std Dev 69.89

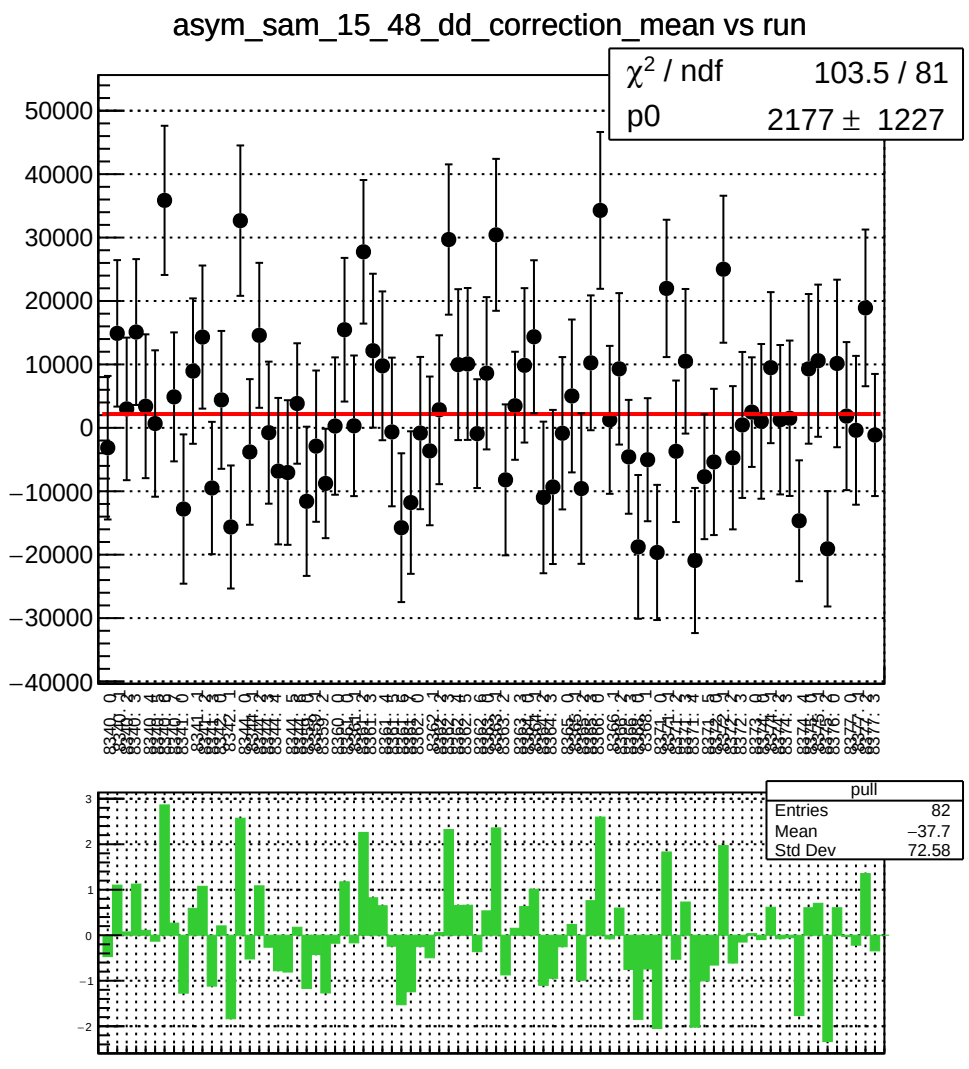

pull1D
Entries 82
Mean 0.04024
Std Dev 1.125

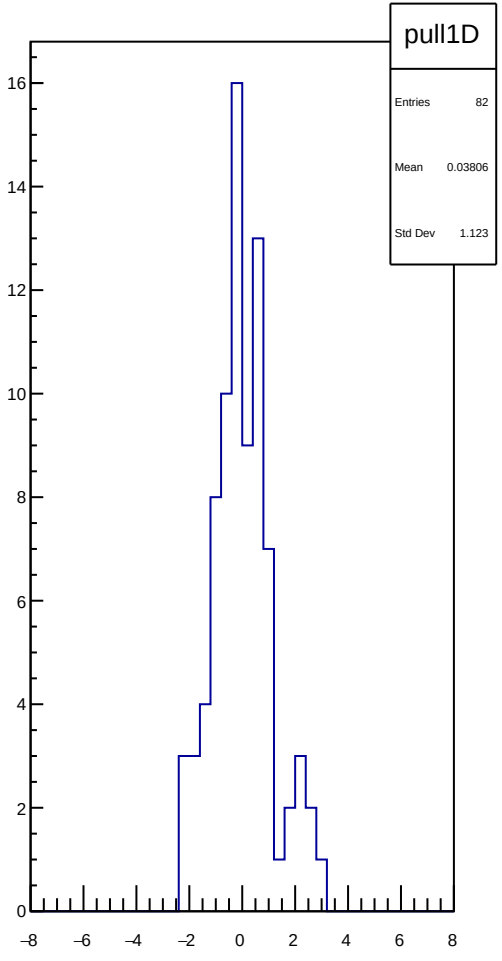

asym_sam_3726_avg_rms vs run
χ² / ndf 2615 / 81
p0 1560 ± 1.222
1700
1650
1600
1550
1500
1450
1400
1350

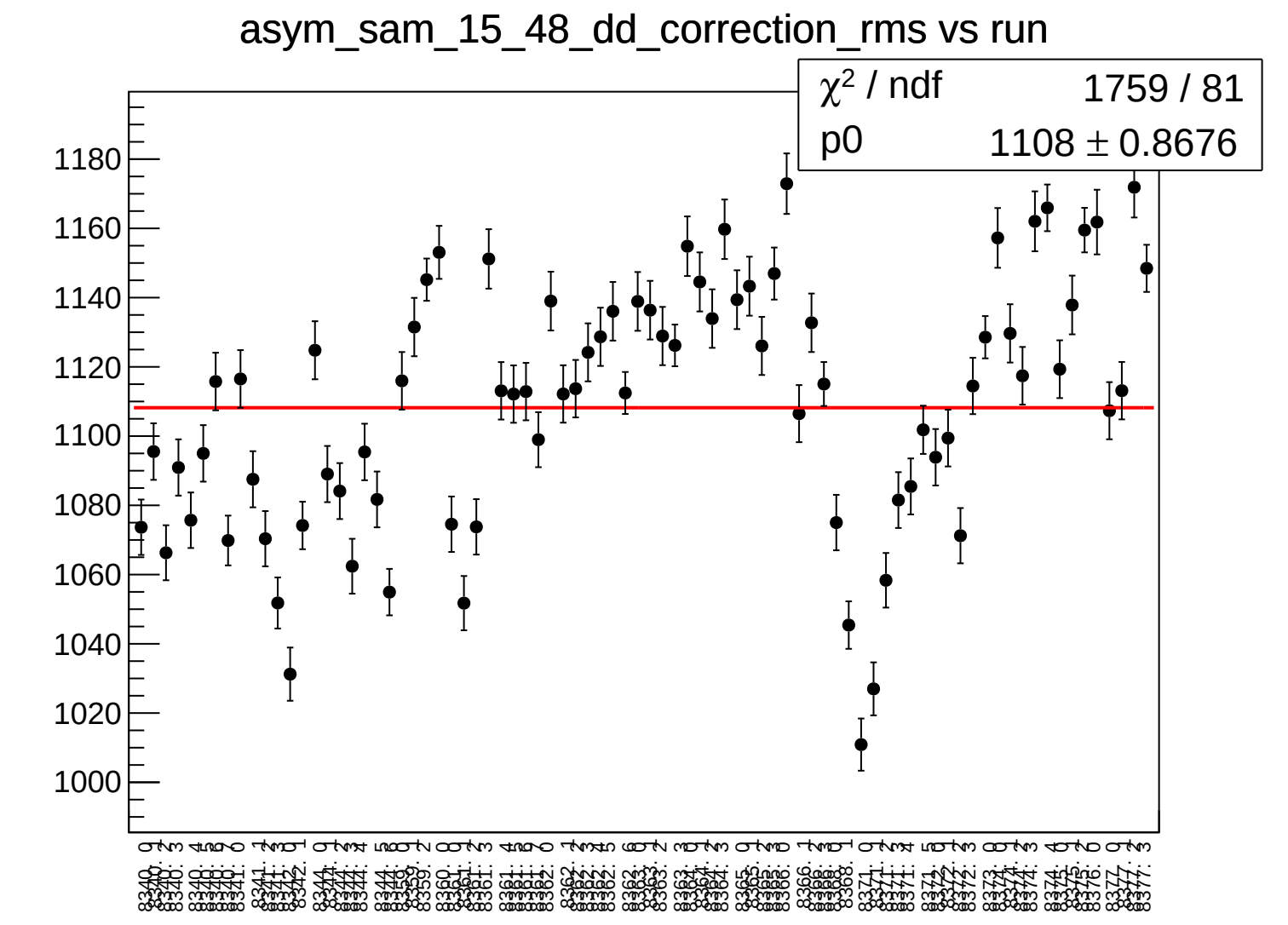

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 98.5 / 81
p0 −146.1± 70.15
2000
1000
0
−1000
−2000
pull
Entries 82
Mean −588.8
Std Dev 643.3
3
2
1
0
−1
−2

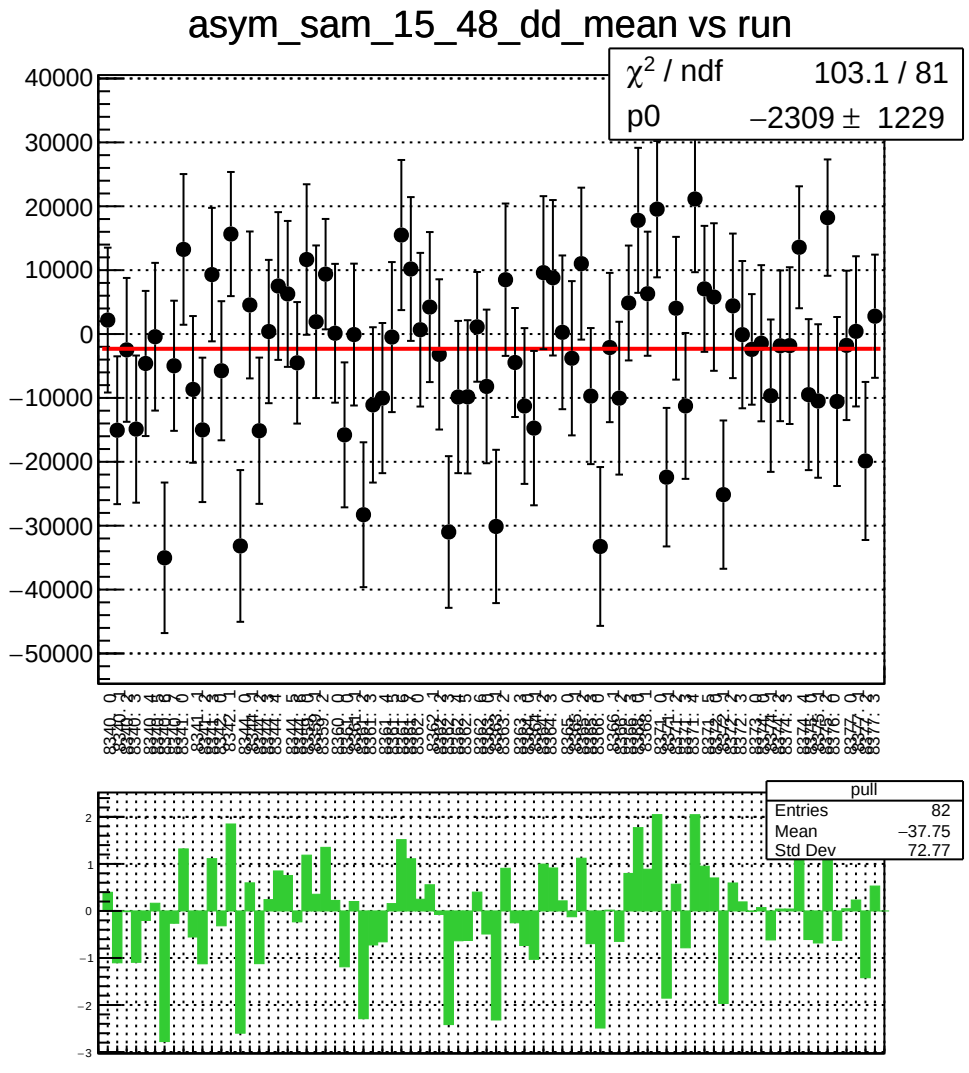

pull1D
Entries 82
Mean −0.001063
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

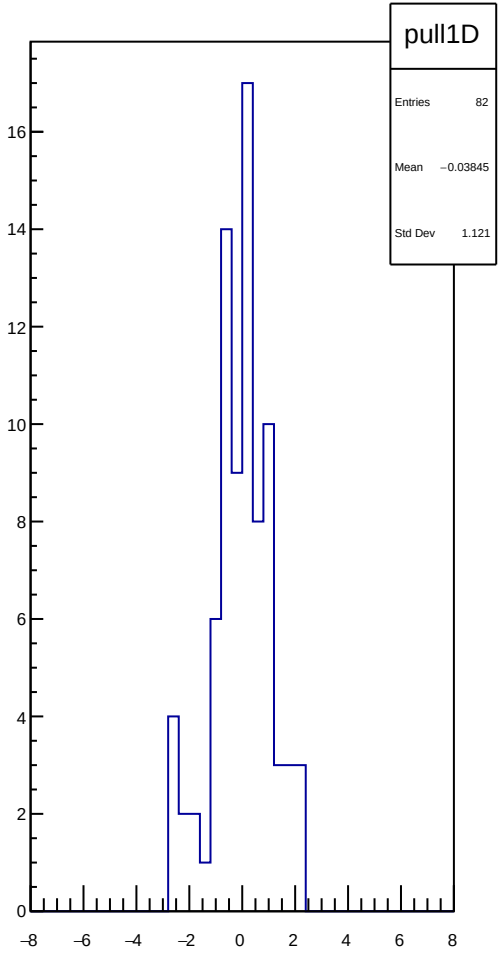

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.088e+04 / 81
p0 63.18 ± 0.0496
130
120
110
100
90
80
70
60
50

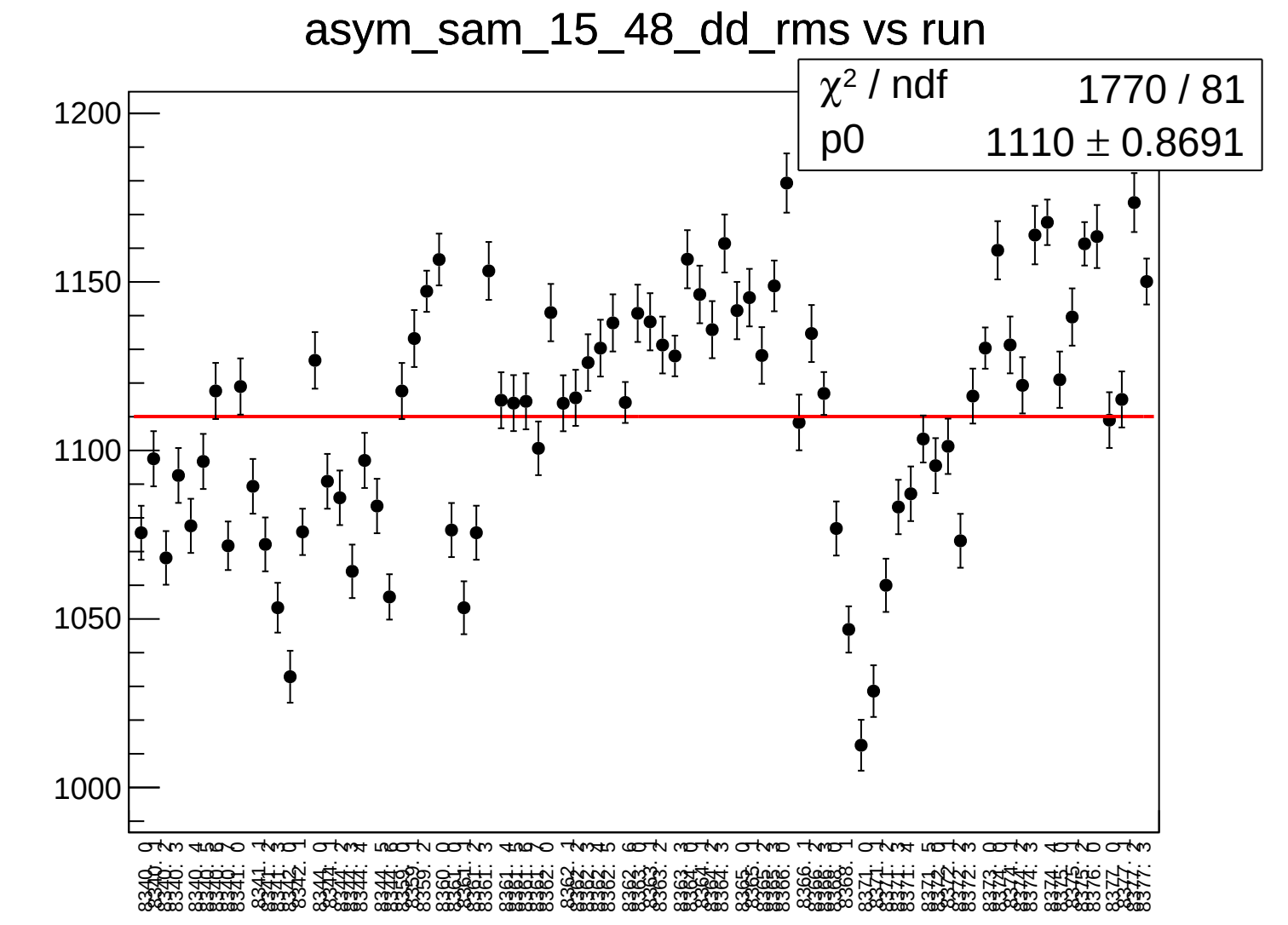

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 103.5 / 81
p0 2177 ± 1227
pull
Entries 82
Mean −37.7
Std Dev 72.58

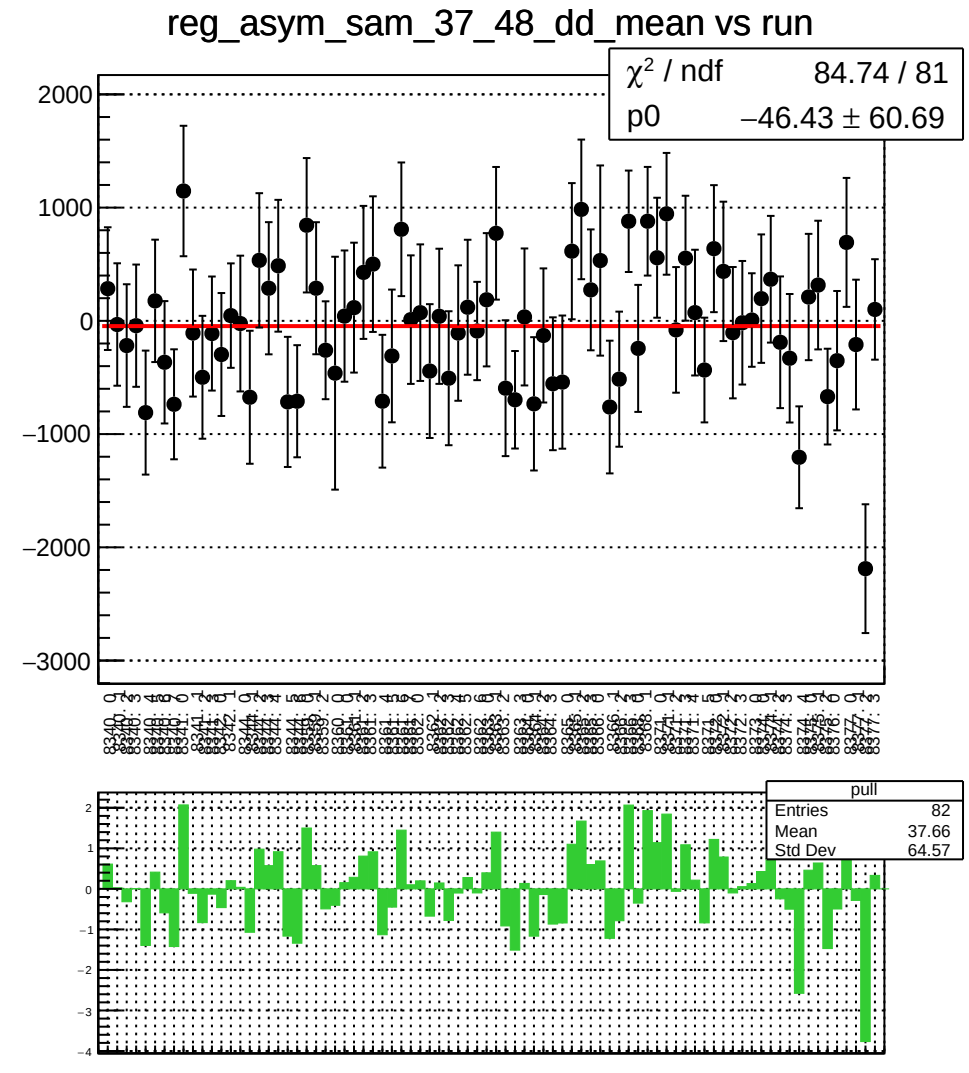

pull1D
Entries 82
Mean 0.03806
Std Dev 1.123

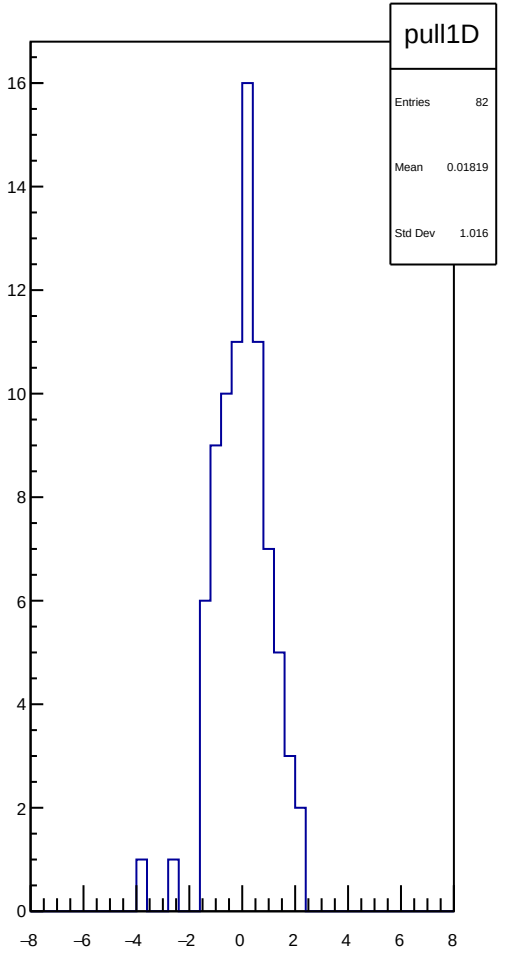

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 1759 / 81
p0 1108 ± 0.8676
1180
1160
1140
1120
1100
1080
1060
1040
1020
1000

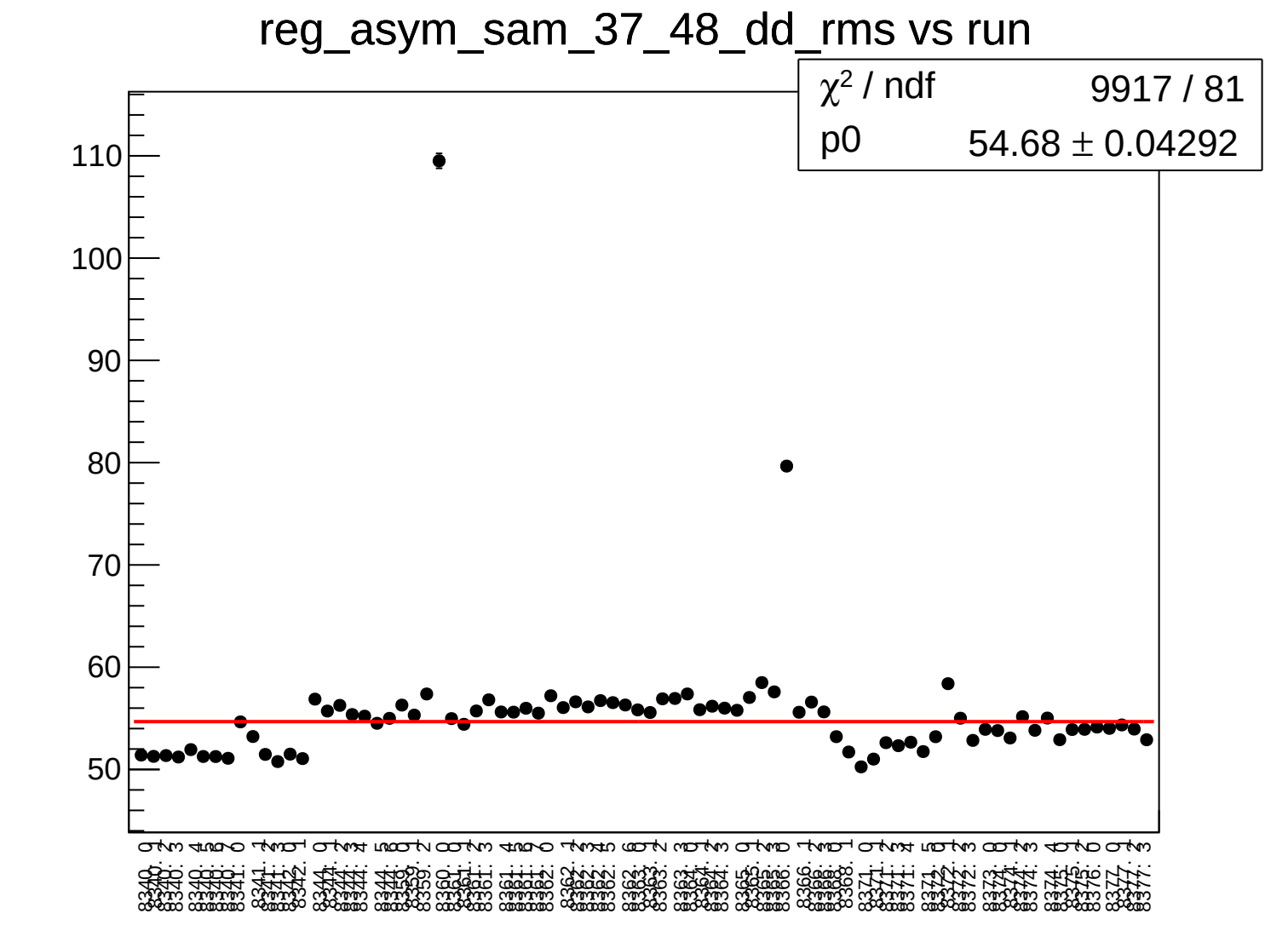

asym_sam_15_48_dd_mean vs run
χ² / ndf 103.1 / 81
p0 −2309 ± 1229
pull
Entries 82
Mean −37.75
Std Dev 72.77

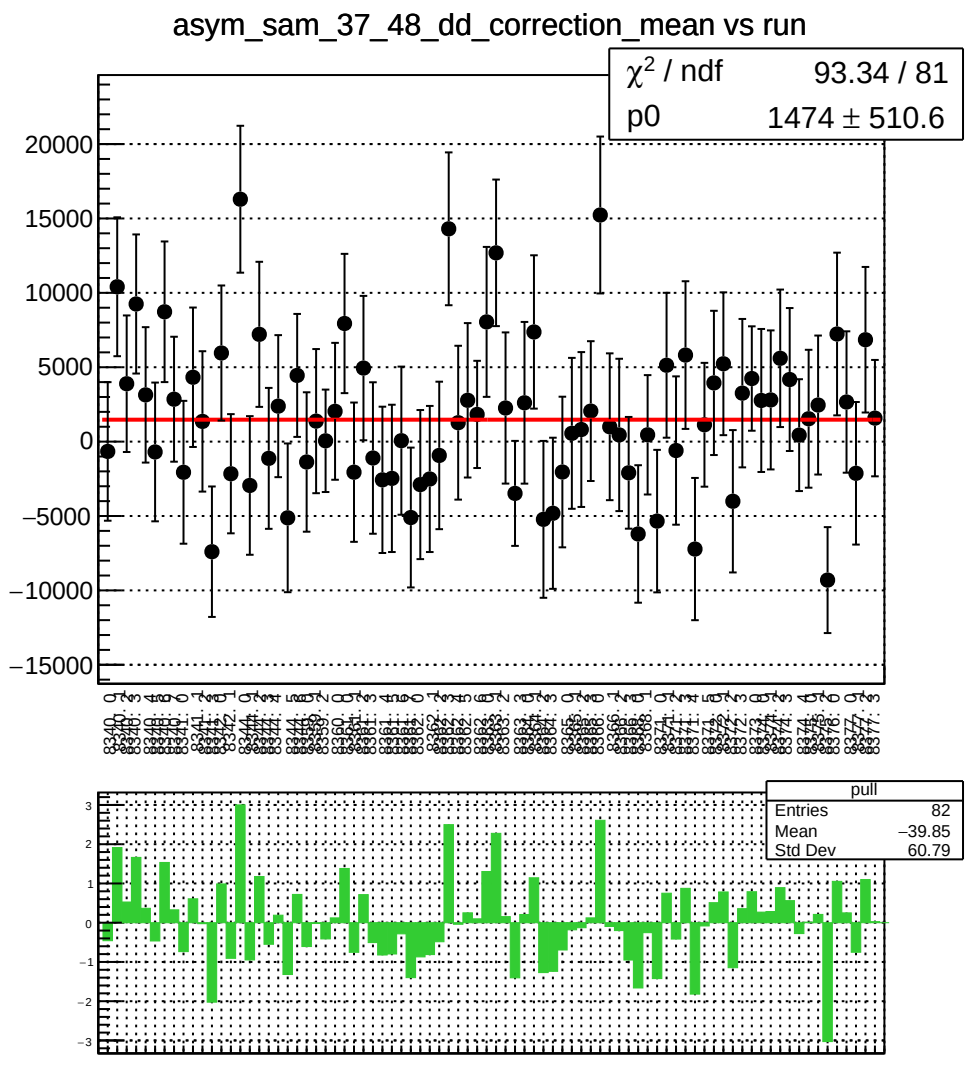

pull1D
Entries 82
Mean −0.03845
Std Dev 1.121

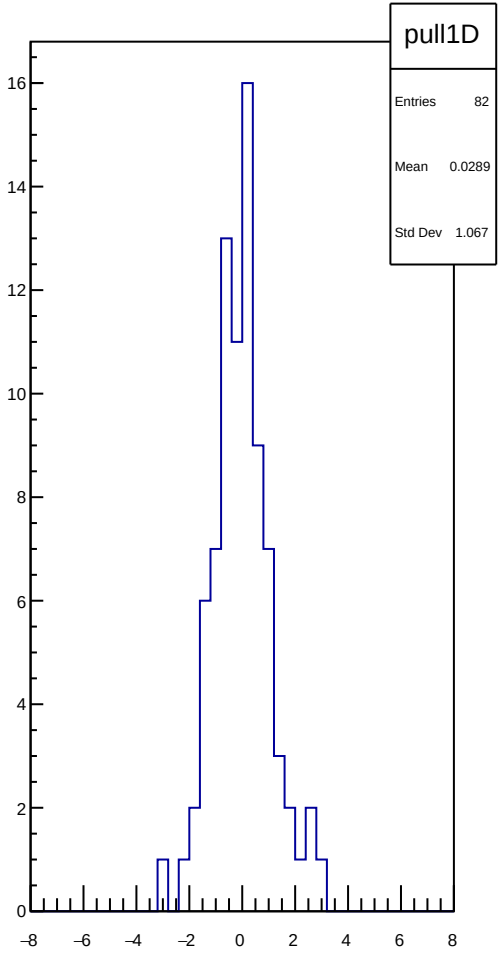

asym_sam_15_48_dd_rms vs run
χ² / ndf 1770 / 81
p0 1110 ± 0.8691
1200
1150
1100
1050
1000

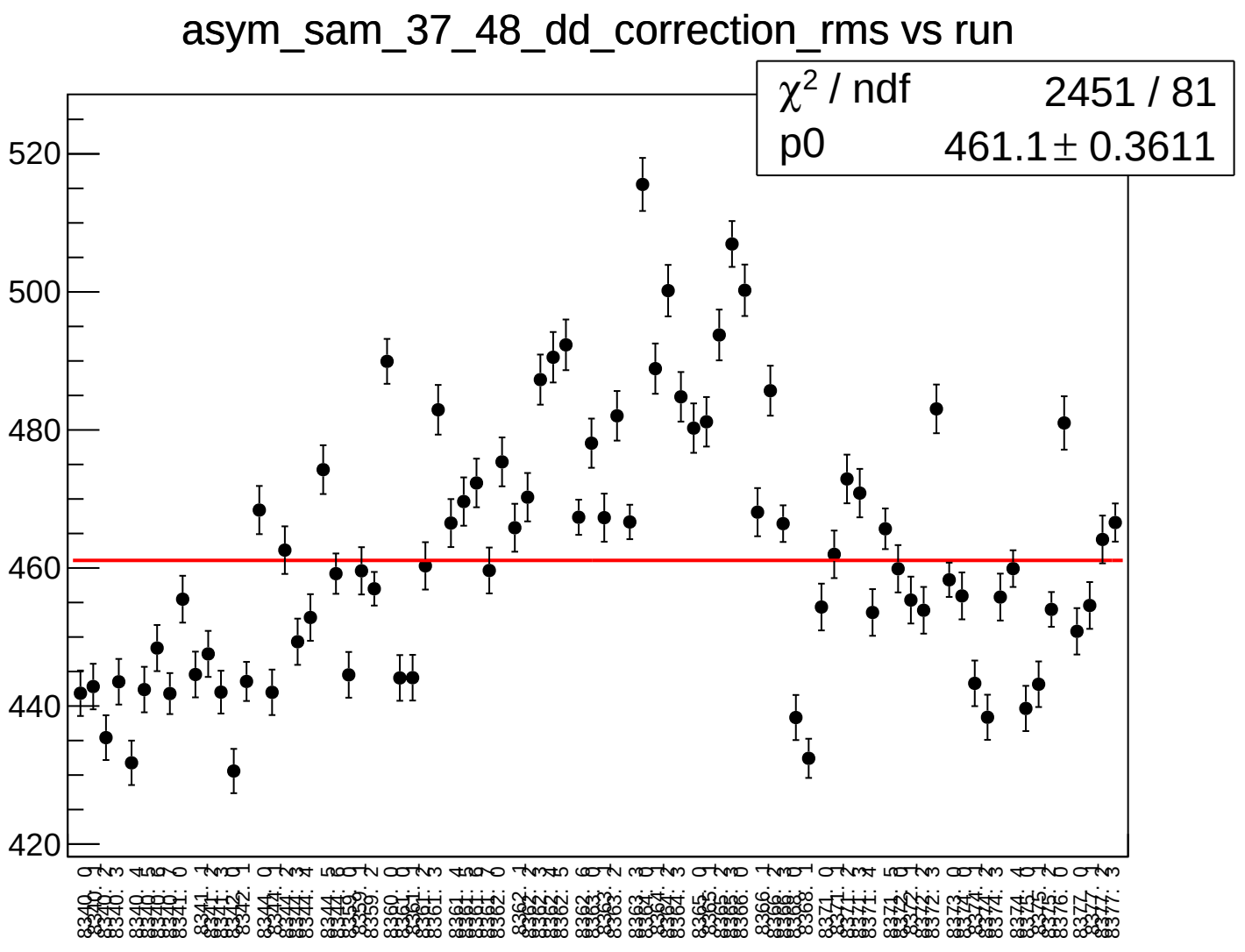

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 84.74 / 81
p0 −46.43 ± 60.69
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean 37.66
Std Dev 64.57
2
1
0
−1
−2
−3
−4

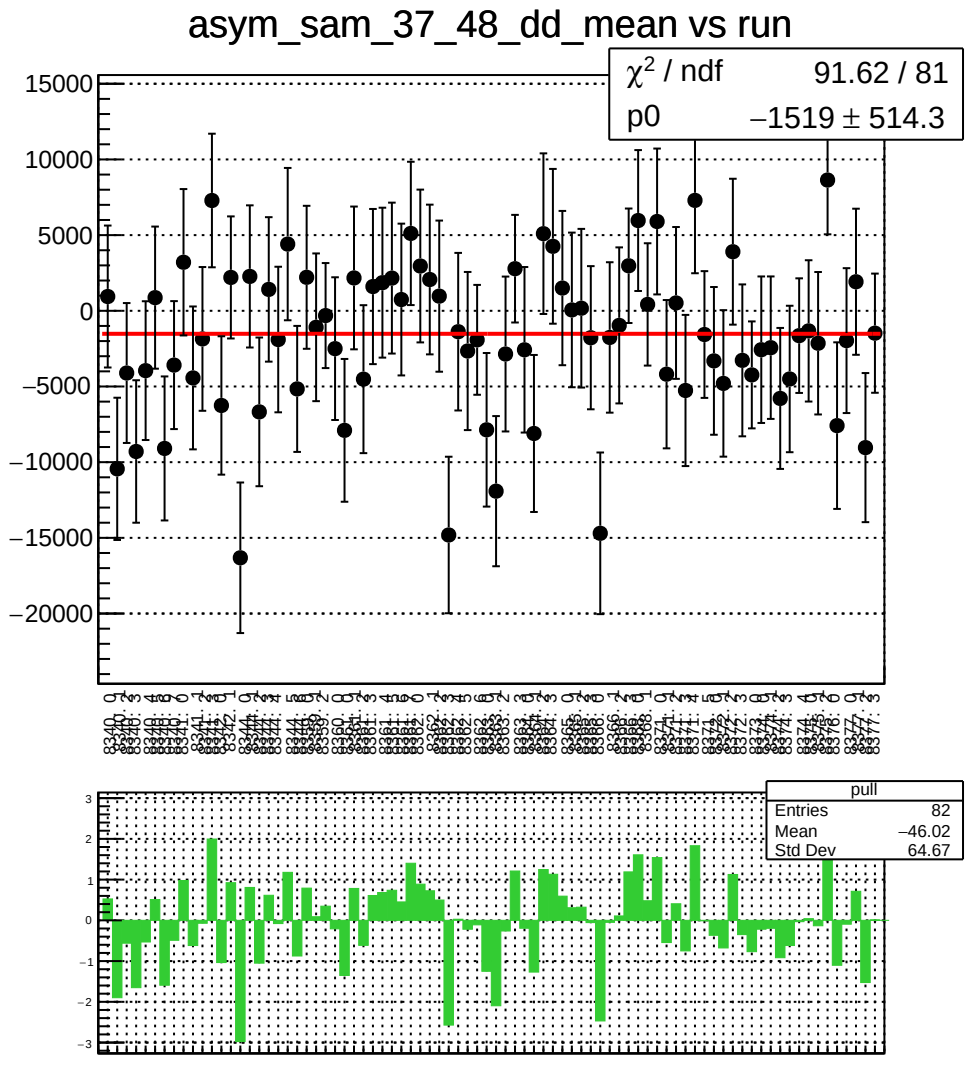

pull1D
Entries 82
Mean 0.01819
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

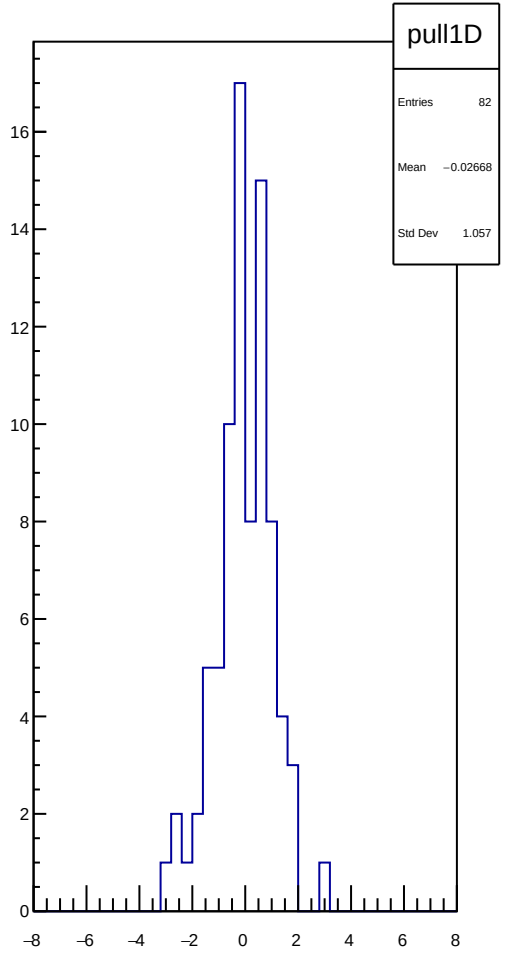

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 9917 / 81
p0 54.68 ± 0.04292
110
100
90
80
70
60
50

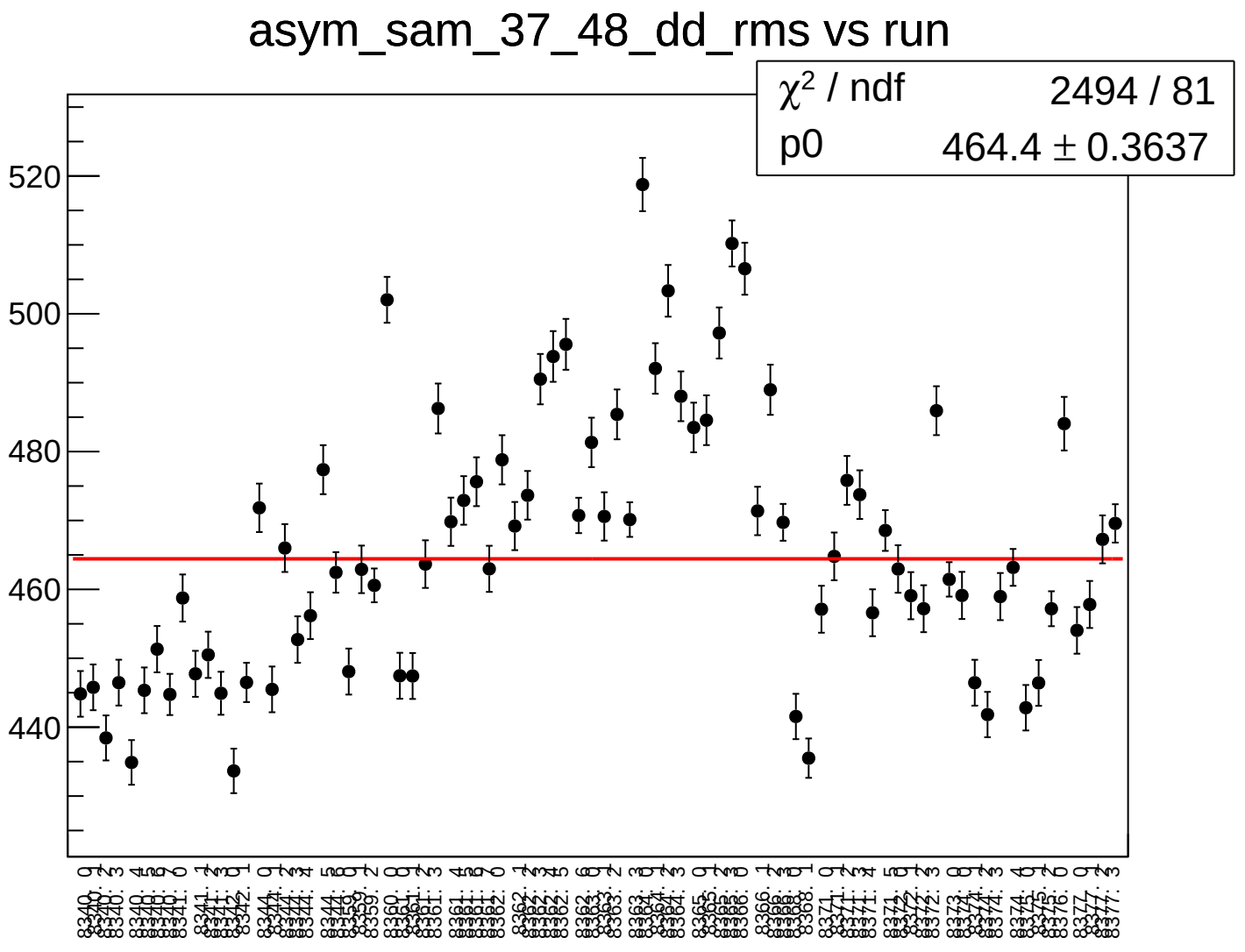

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 93.34 / 81
p0 1474 ± 510.6
pull
Entries 82
Mean −39.85
Std Dev 60.79

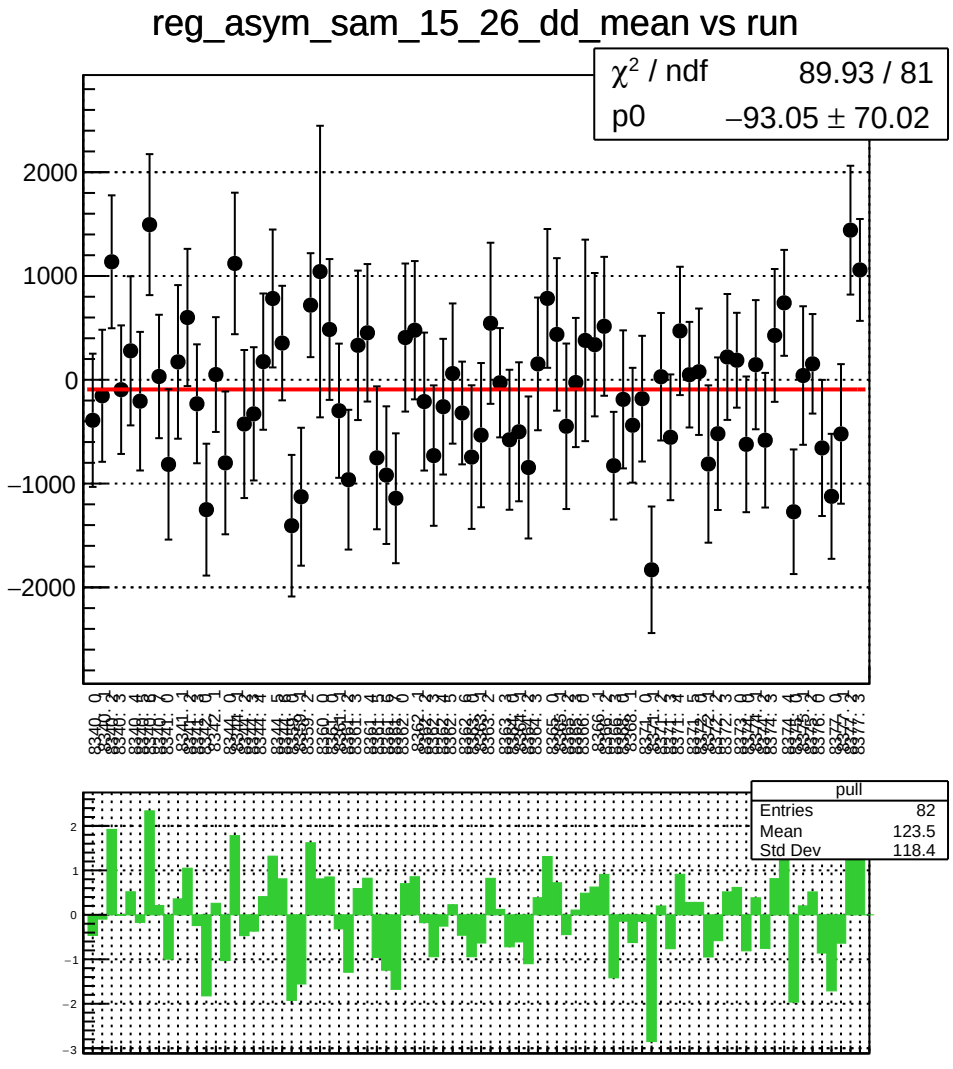

pull1D
Entries 82
Mean 0.0289
Std Dev 1.067

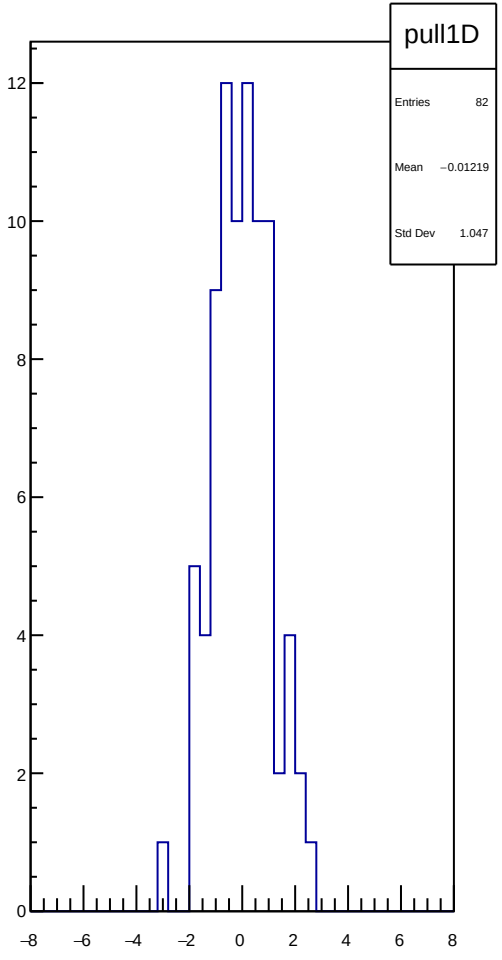

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 2451 / 81
p0 461.1 ± 0.3611
520
500
480
460
440
420

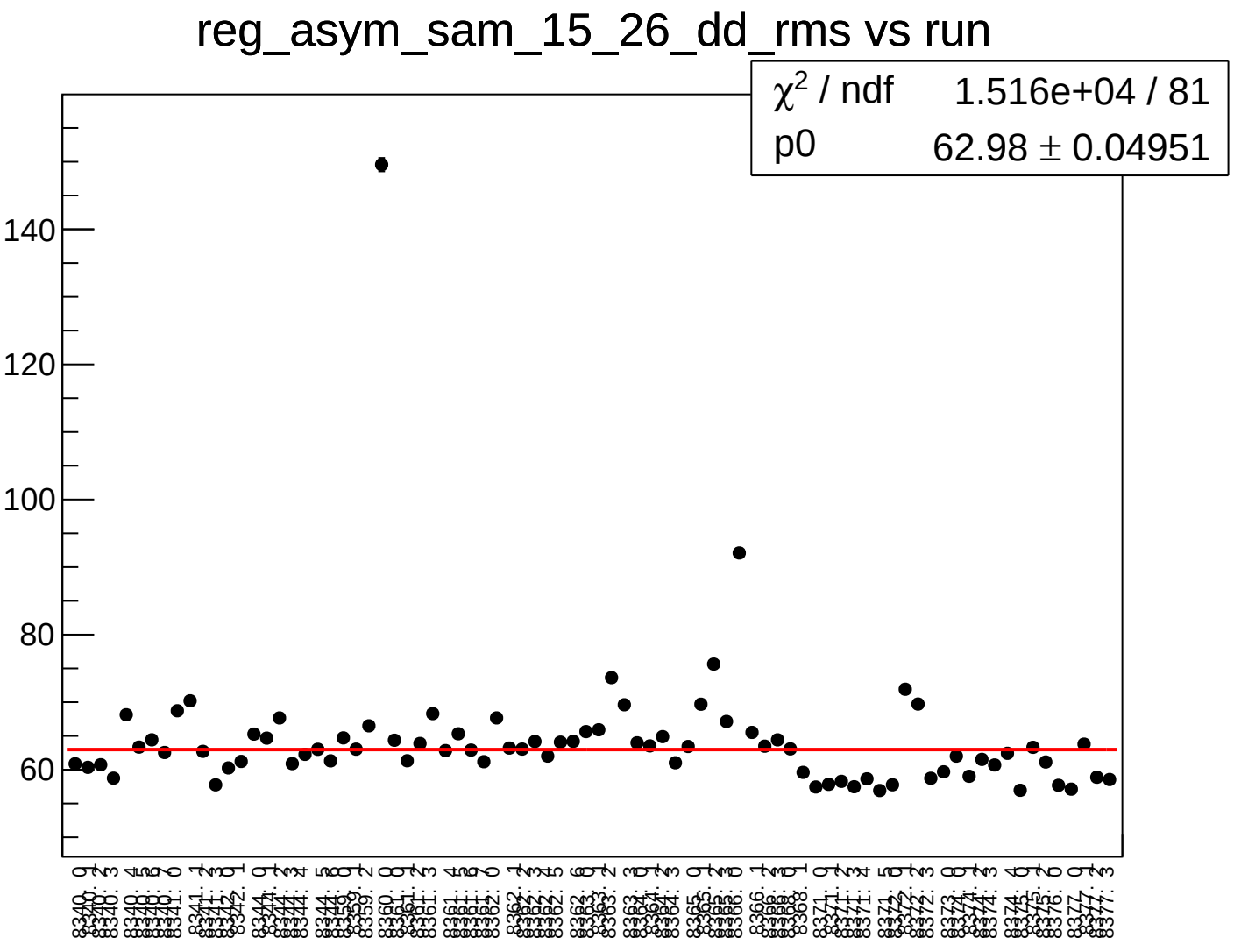

asym_sam_37_48_dd_mean vs run
χ² / ndf 91.62 / 81
p0 −1519 ± 514.3
pull
Entries 82
Mean −46.02
Std Dev 64.67

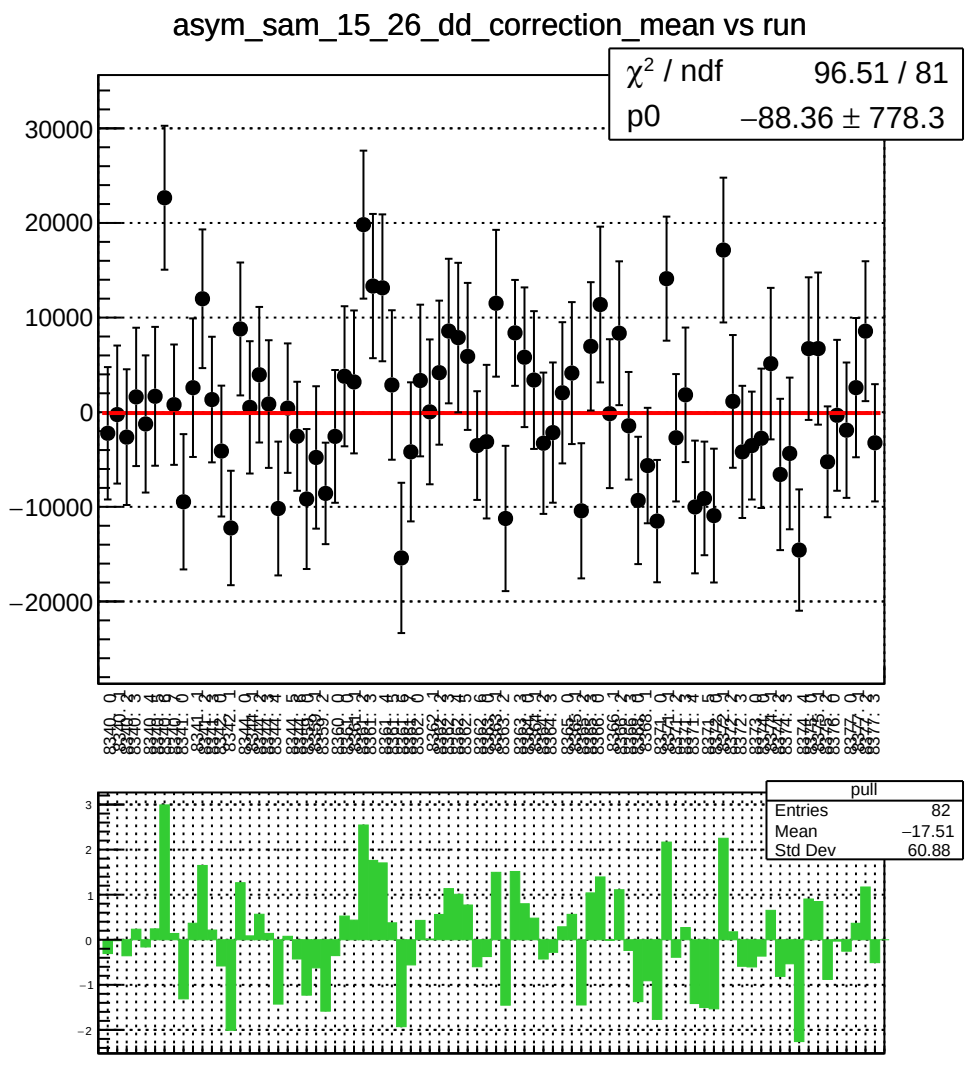

pull1D
Entries 82
Mean −0.02668
Std Dev 1.057

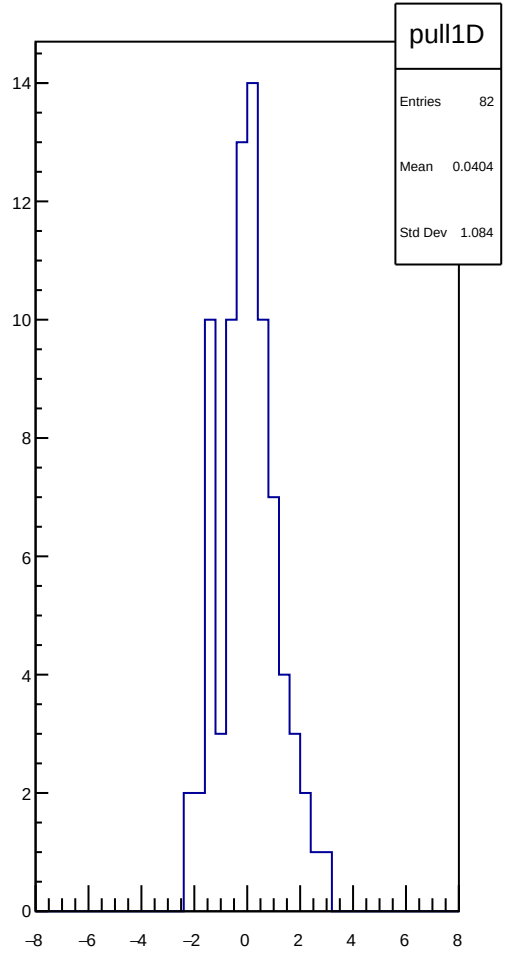

asym_sam_37_48_dd_rms vs run
χ² / ndf 2494 / 81
p0 464.4 ± 0.3637
520
500
480
460
440

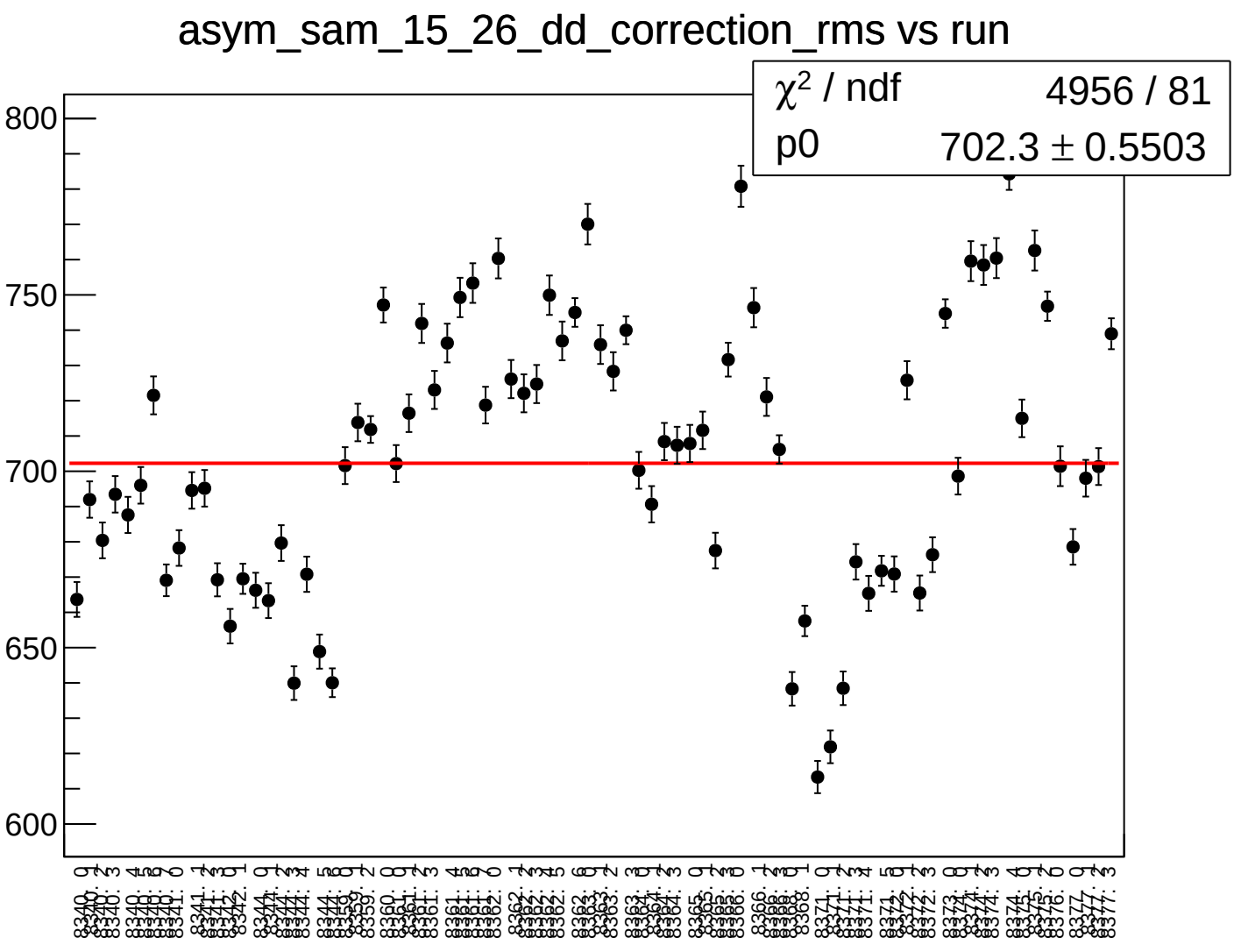

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 89.93 / 81
p0 −93.05 ± 70.02
2000
1000
0
−1000
−2000
pull
Entries 82
Mean 123.5
Std Dev 118.4
2
1
0
−1
−2
−3

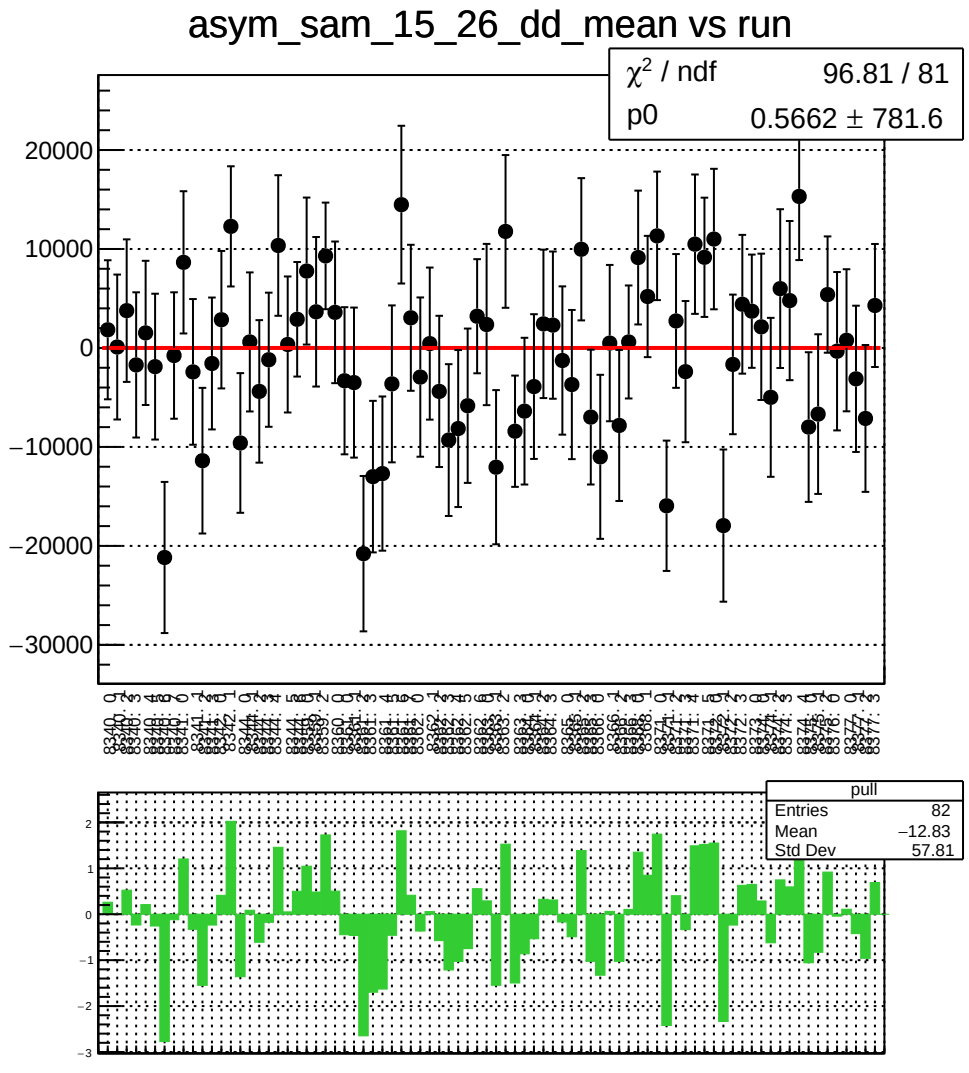

pull1D
Entries 82
Mean −0.01219
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

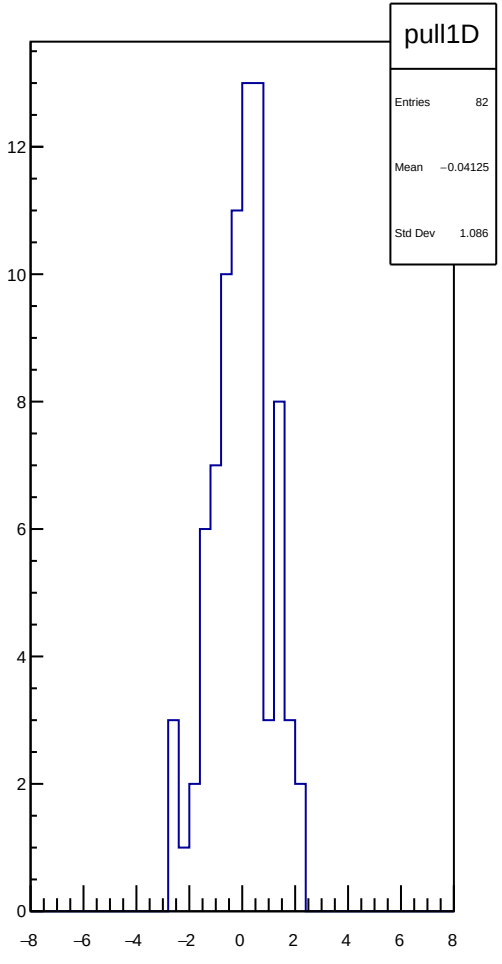

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.516e+04 / 81
p0 62.98 ± 0.04951
140
120
100
80
60

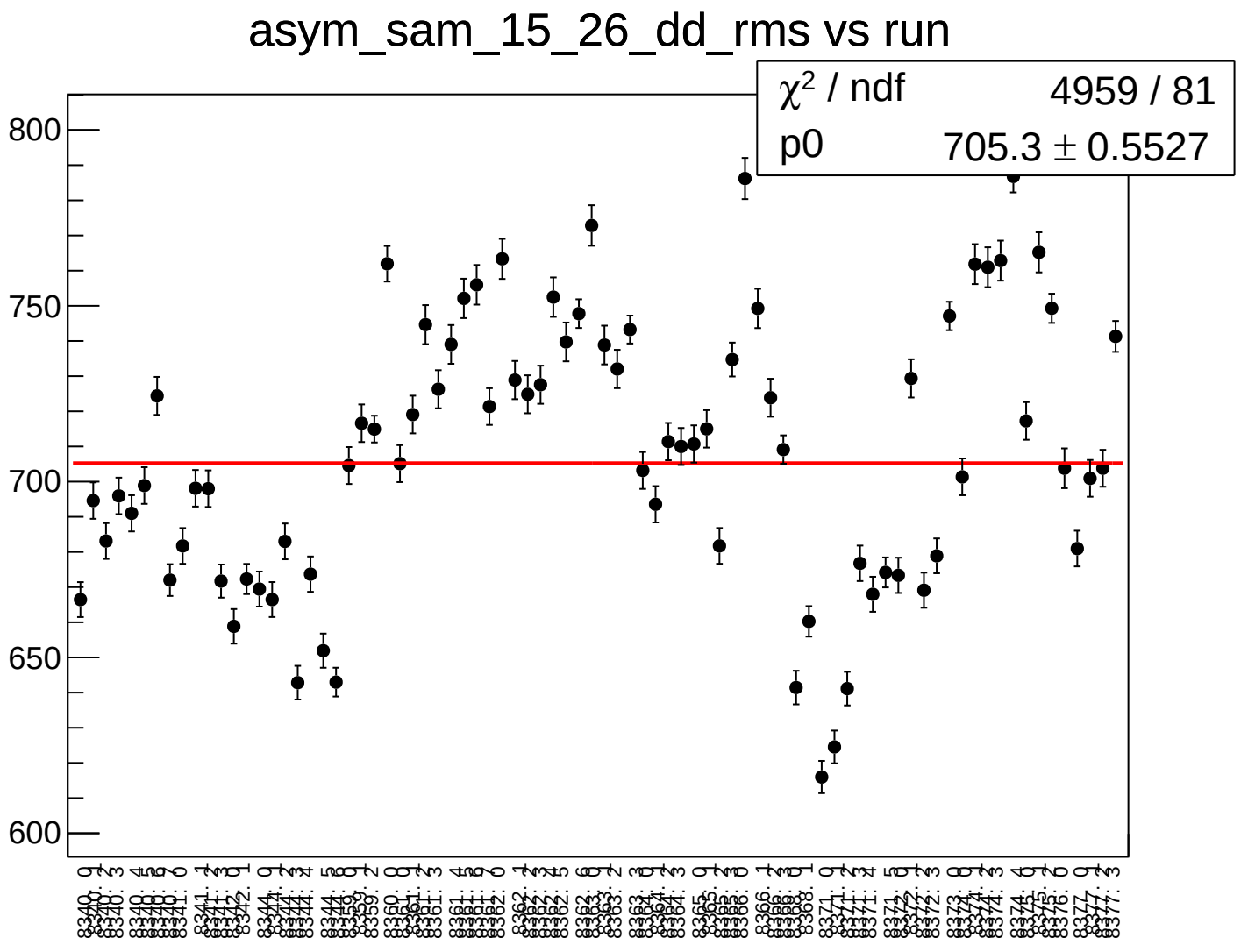

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 96.51 / 81
p0 −88.36 ± 778.3
30000
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −17.51
Std Dev 60.88
3
2
1
0
−1
−2

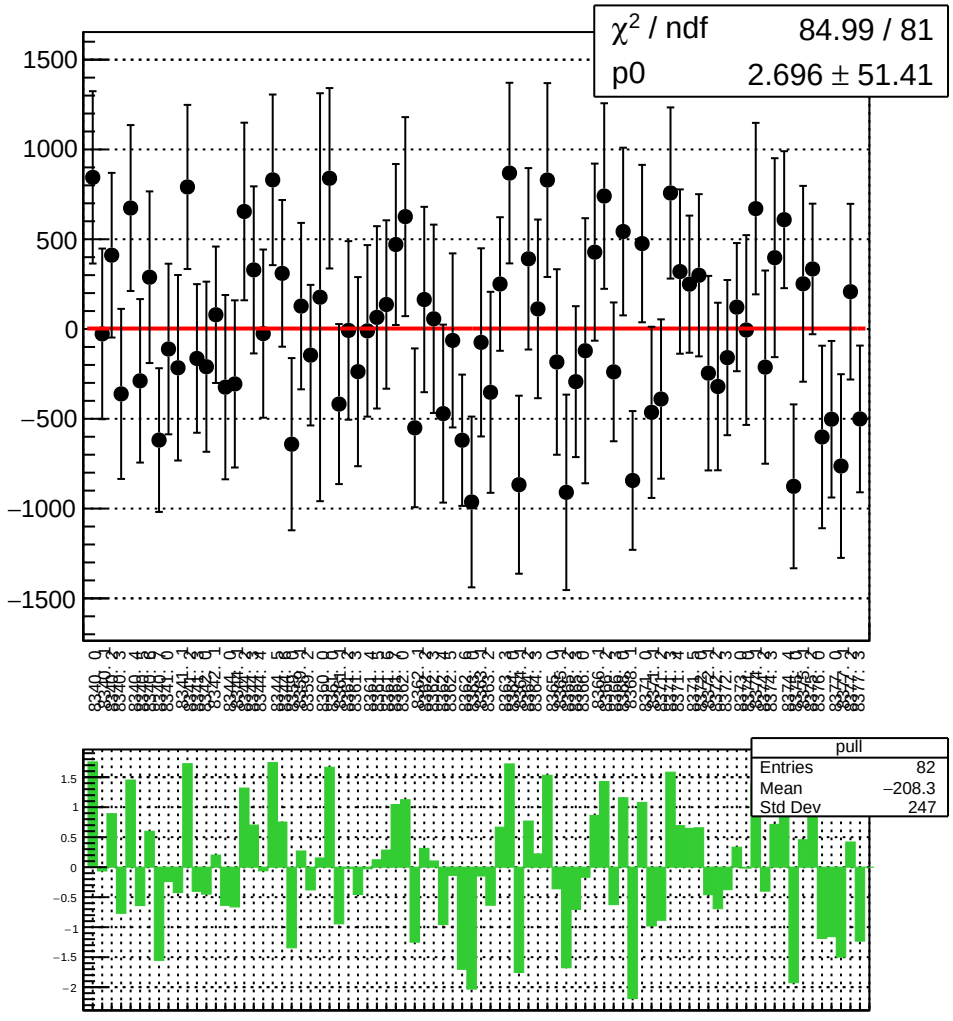

pull1D
Entries 82
Mean 0.0404
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

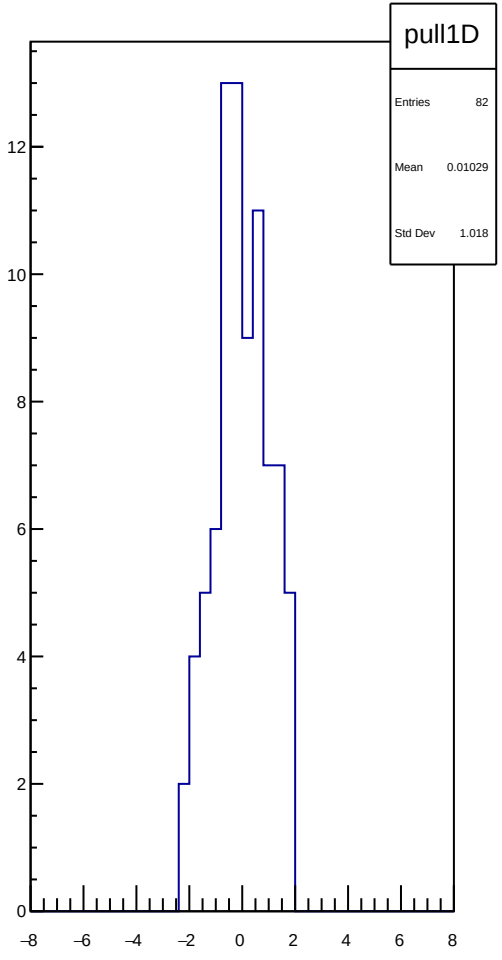

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 4956 / 81
p0 702.3 ± 0.5503
800
750
700
650
600

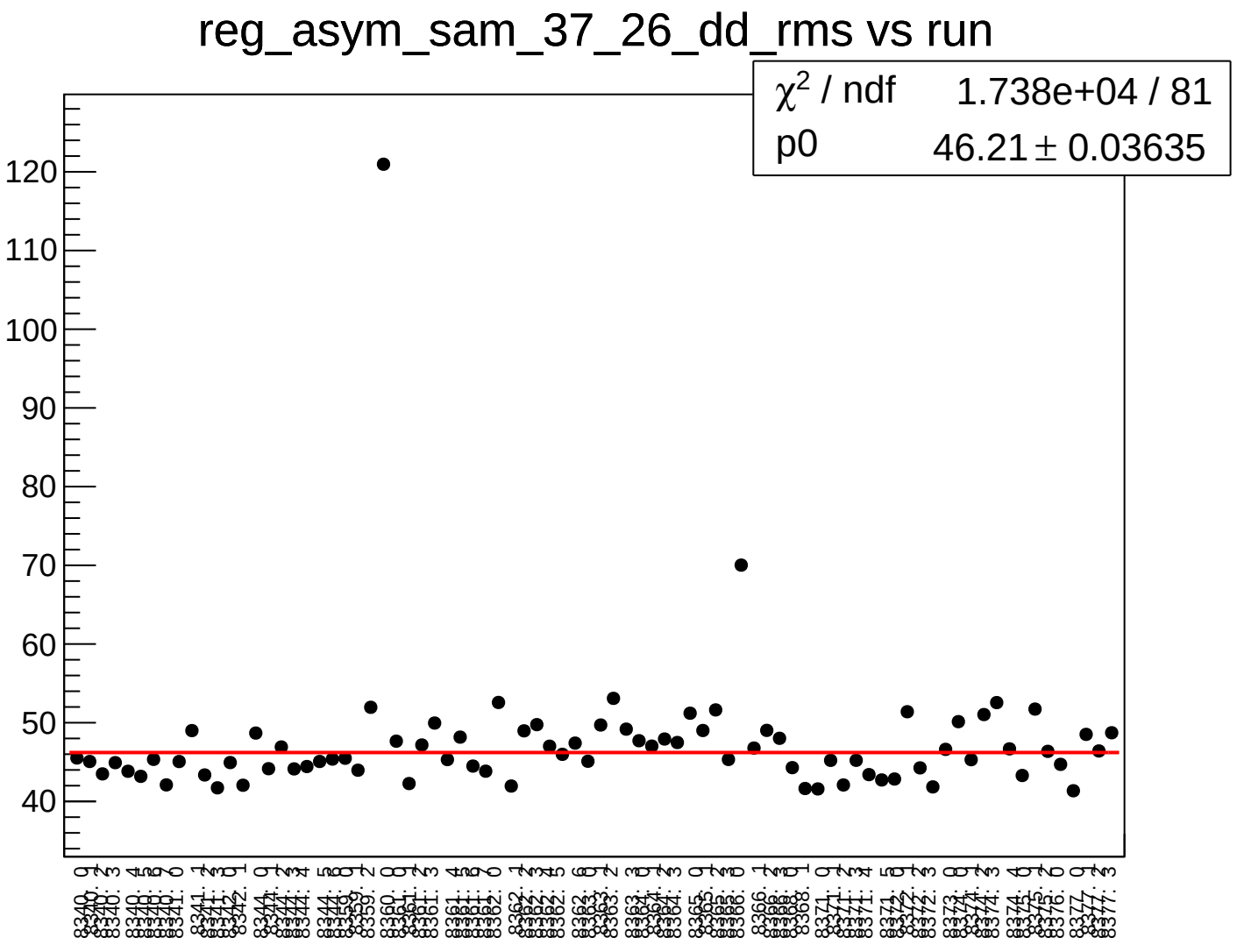

asym_sam_15_26_dd_mean vs run
χ² / ndf 96.81 / 81
p0 0.5662 ± 781.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −12.83
Std Dev 57.81
2
1
0
−1
−2
−3

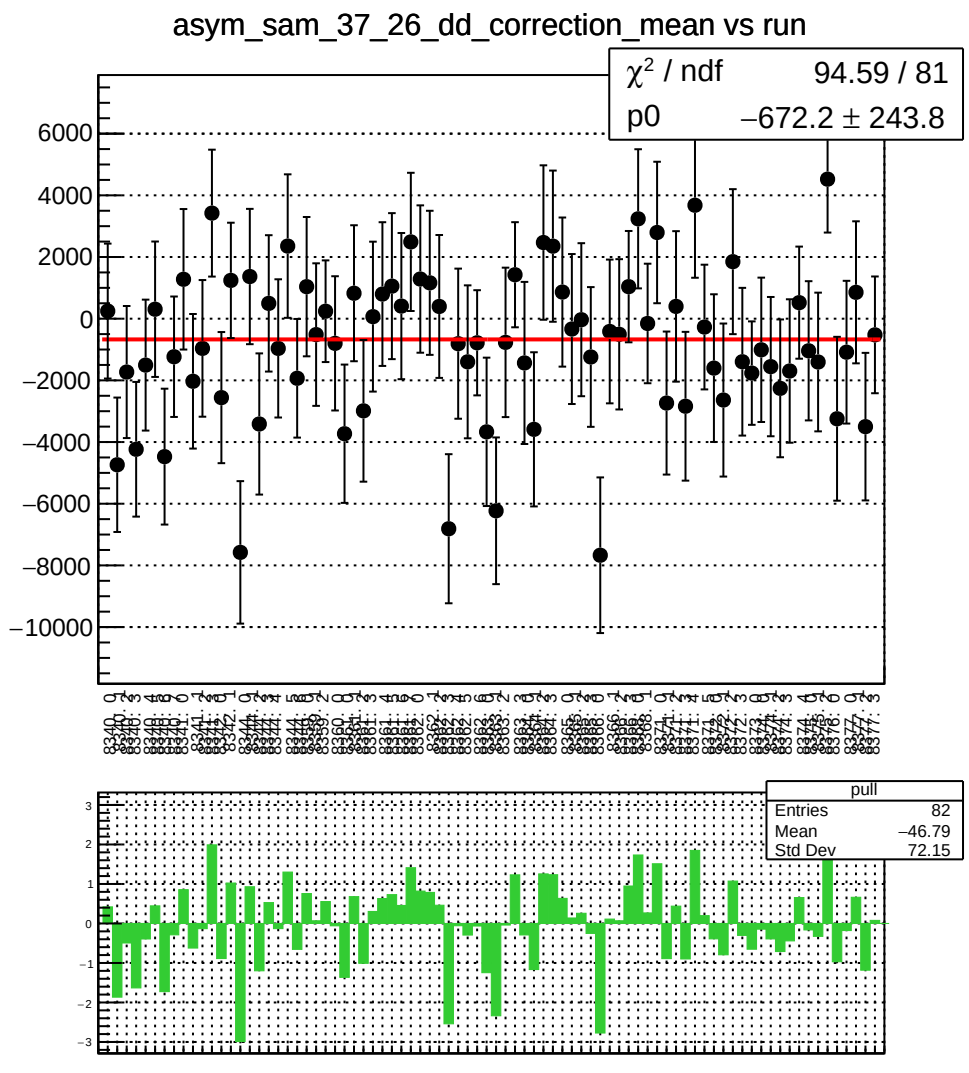

pull1D
Entries 82
Mean −0.04125
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

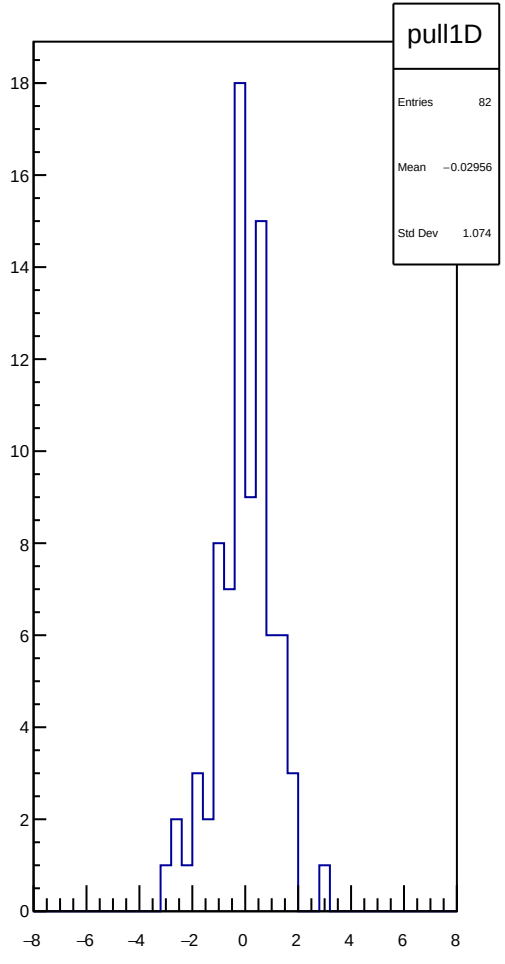

asym_sam_15_26_dd_rms vs run
χ² / ndf 4959 / 81
p0 705.3 ± 0.5527
800
750
700
650
600

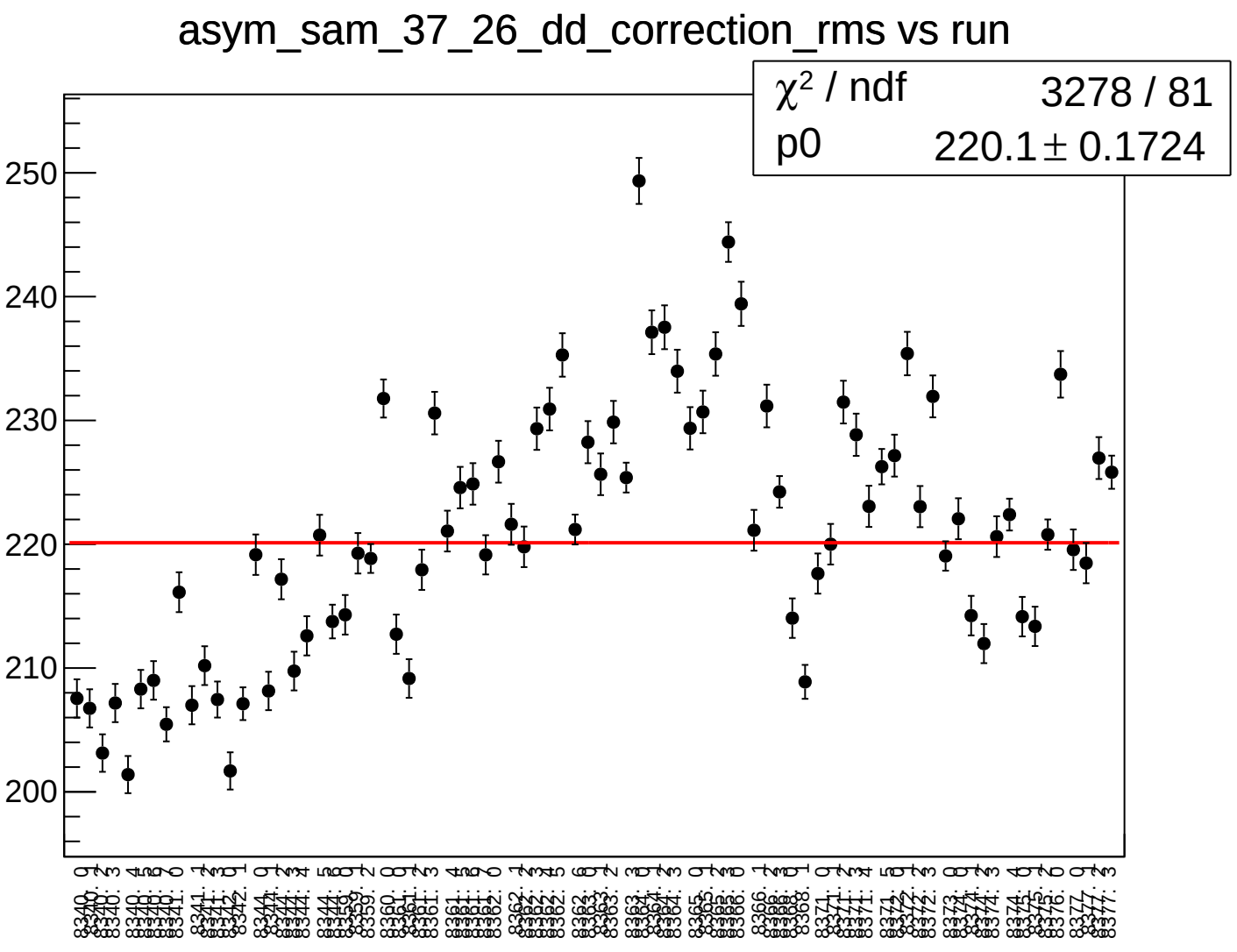

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 84.99 / 81
p0 2.696 ± 51.41
pull
Entries 82
Mean −208.3
Std Dev 247

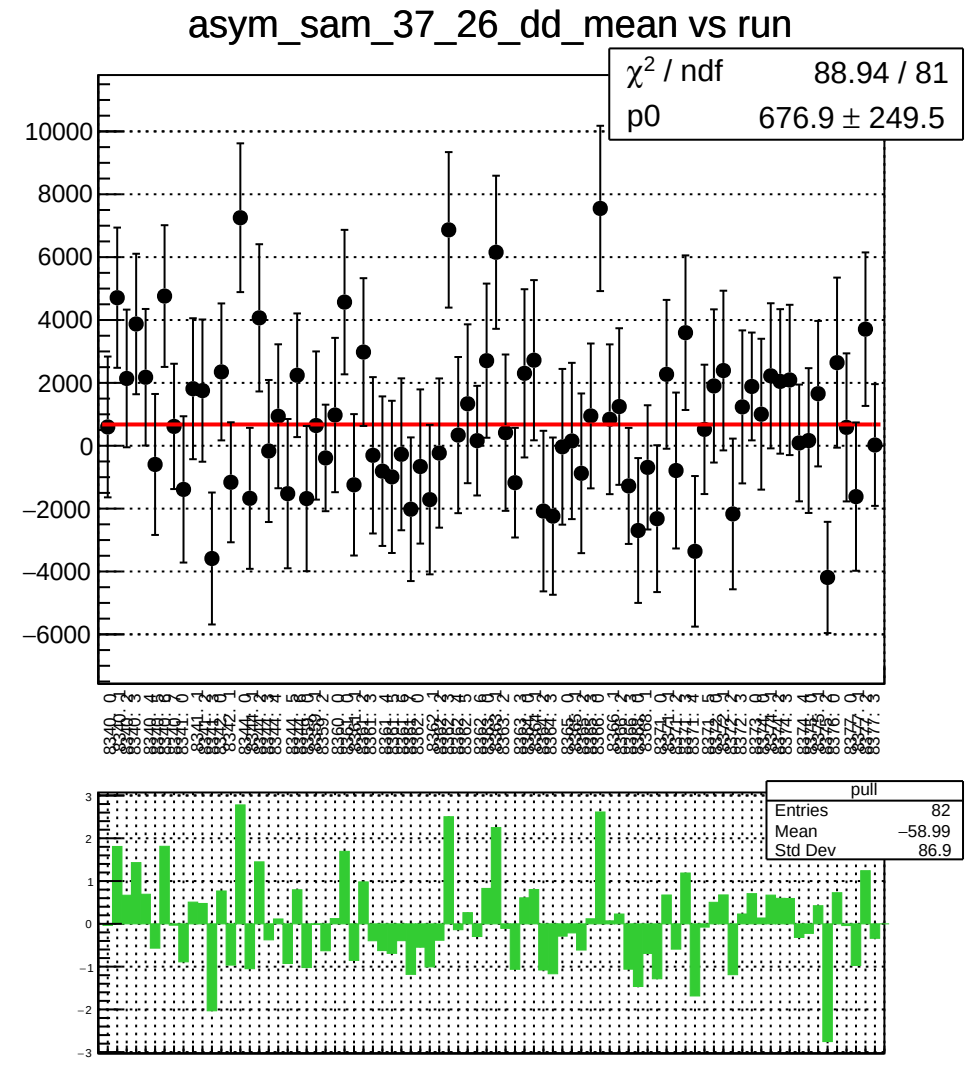

pull1D
Entries 82
Mean 0.01029
Std Dev 1.018

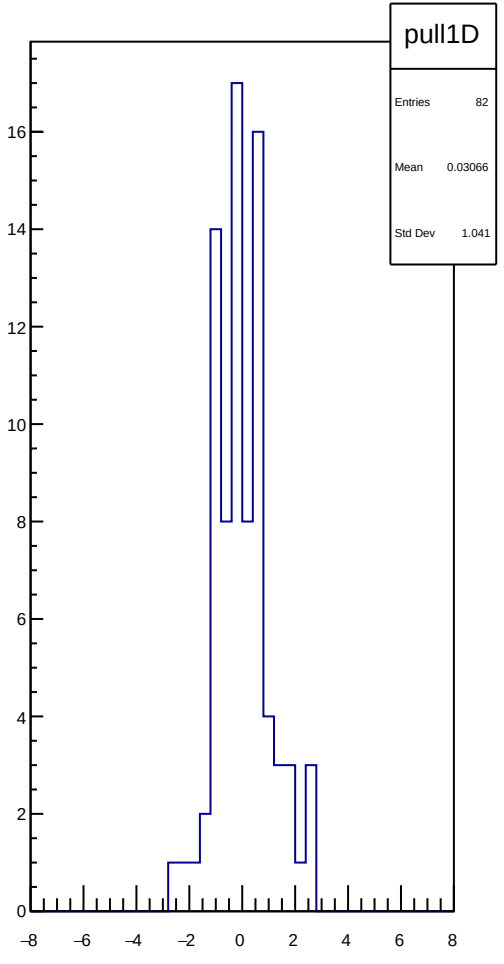

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.738e+04 / 81
p0 46.21 ± 0.03635
120
110
100
90
80
70
60
50
40

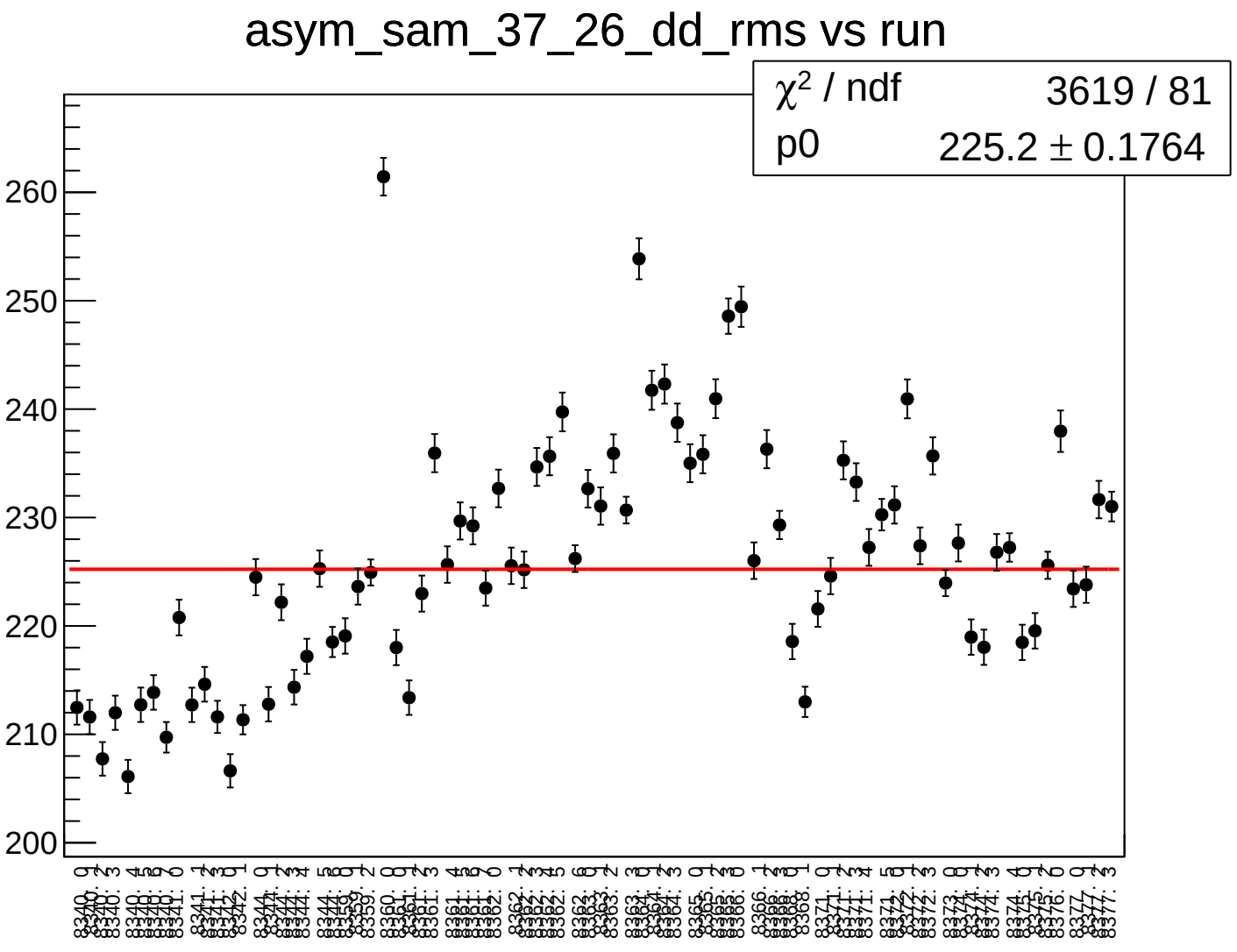

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 94.59 / 81
p0 −672.2 ± 243.8
pull
Entries 82
Mean −46.79
Std Dev 72.15

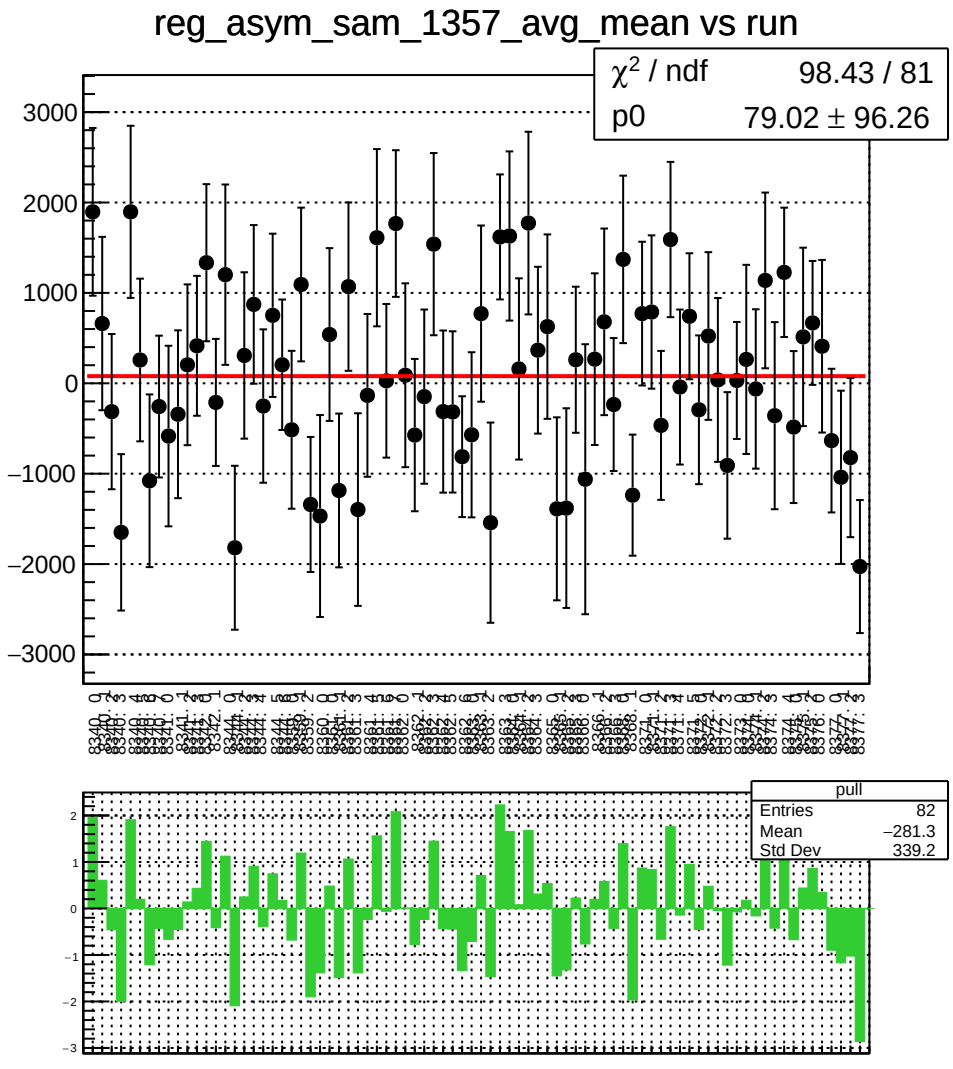

pull1D
Entries 82
Mean −0.02956
Std Dev 1.074

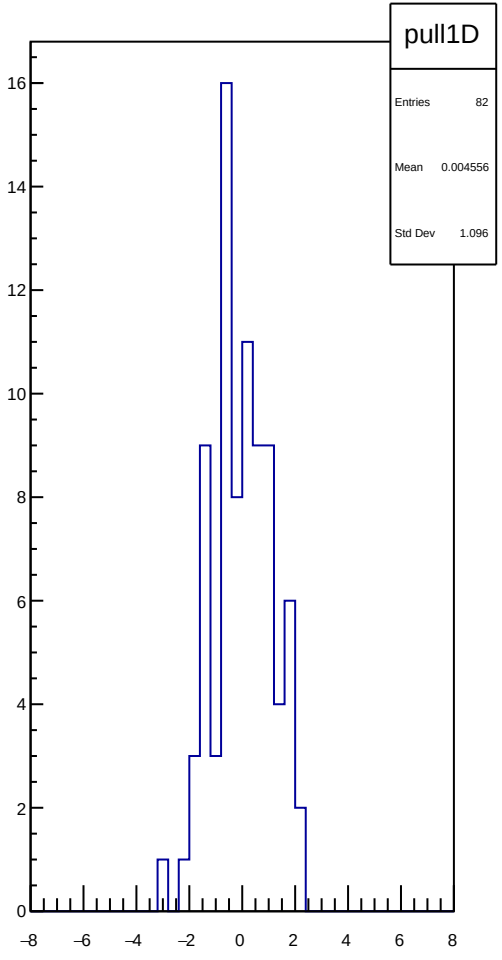

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 3278 / 81
p0 220.1 ± 0.1724
250
240
230
220
210
200

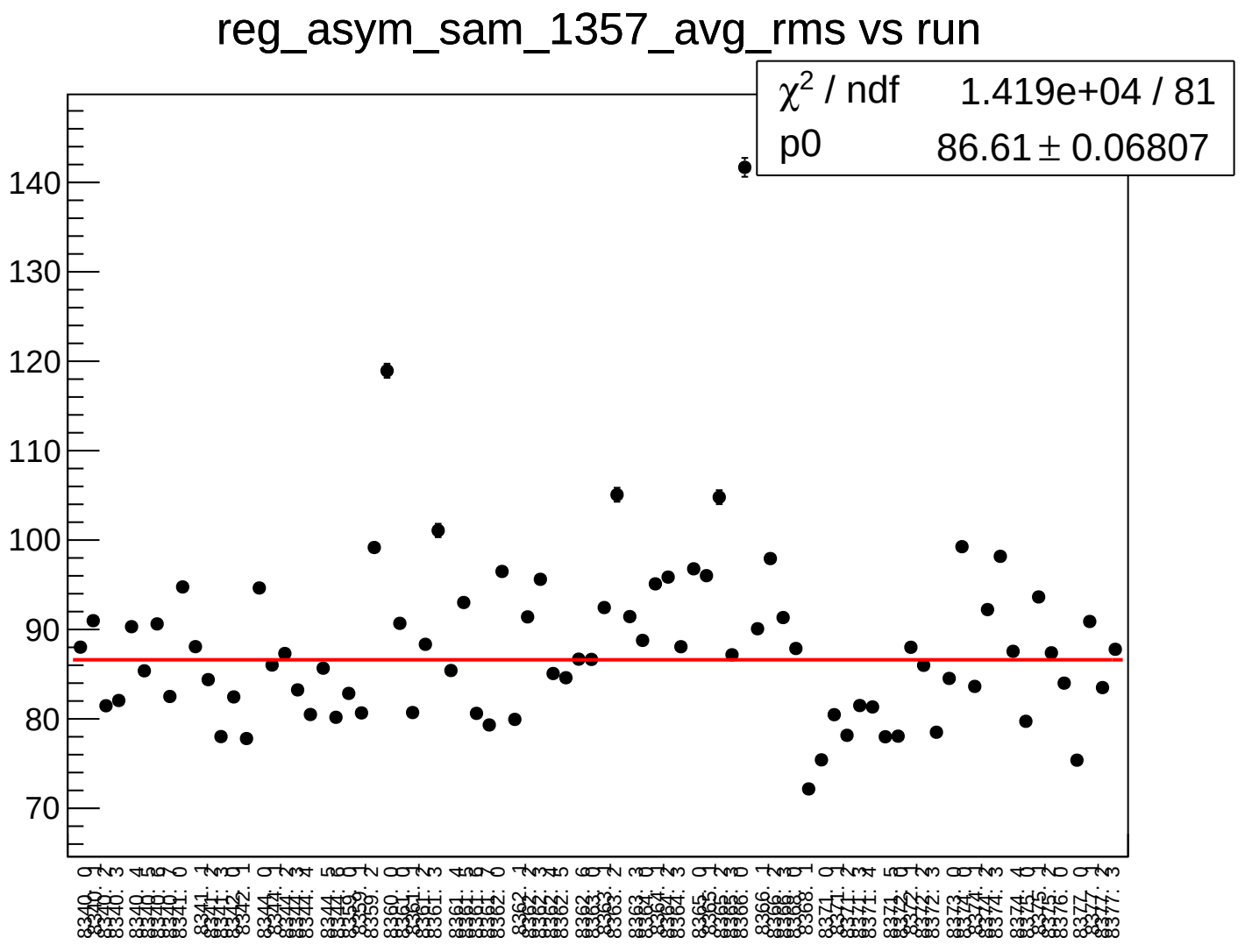

asym_sam_37_26_dd_mean vs run
χ² / ndf 88.94 / 81
p0 676.9 ± 249.5
pull
Entries 82
Mean −58.99
Std Dev 86.9

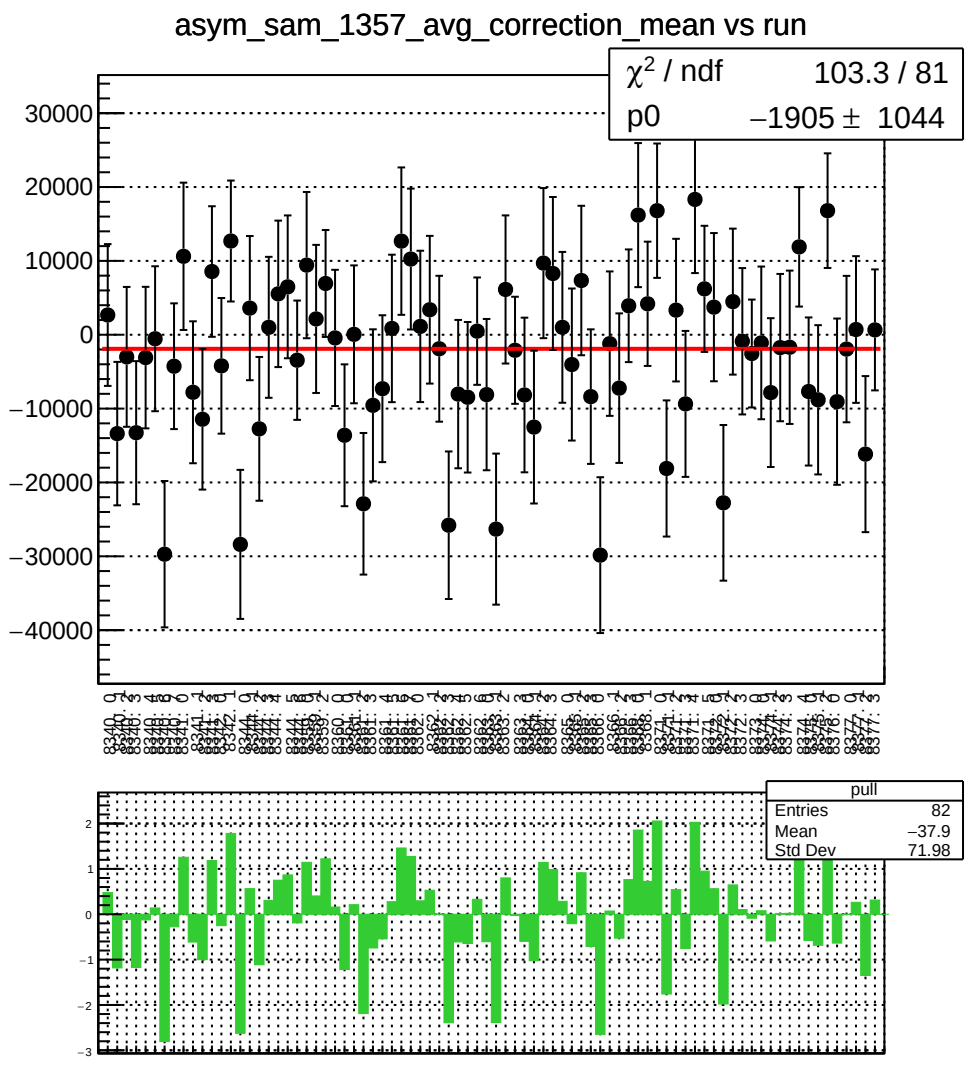

pull1D
Entries 82
Mean 0.03066
Std Dev 1.041

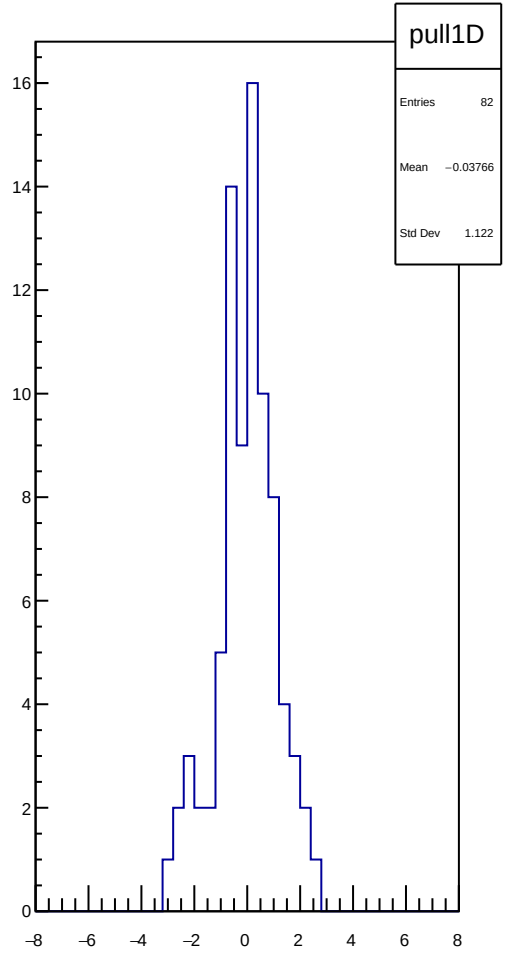

asym_sam_37_26_dd_rms vs run
χ² / ndf 3619 / 81
p0 225.2 ± 0.1764
260
250
240
230
220
210
200

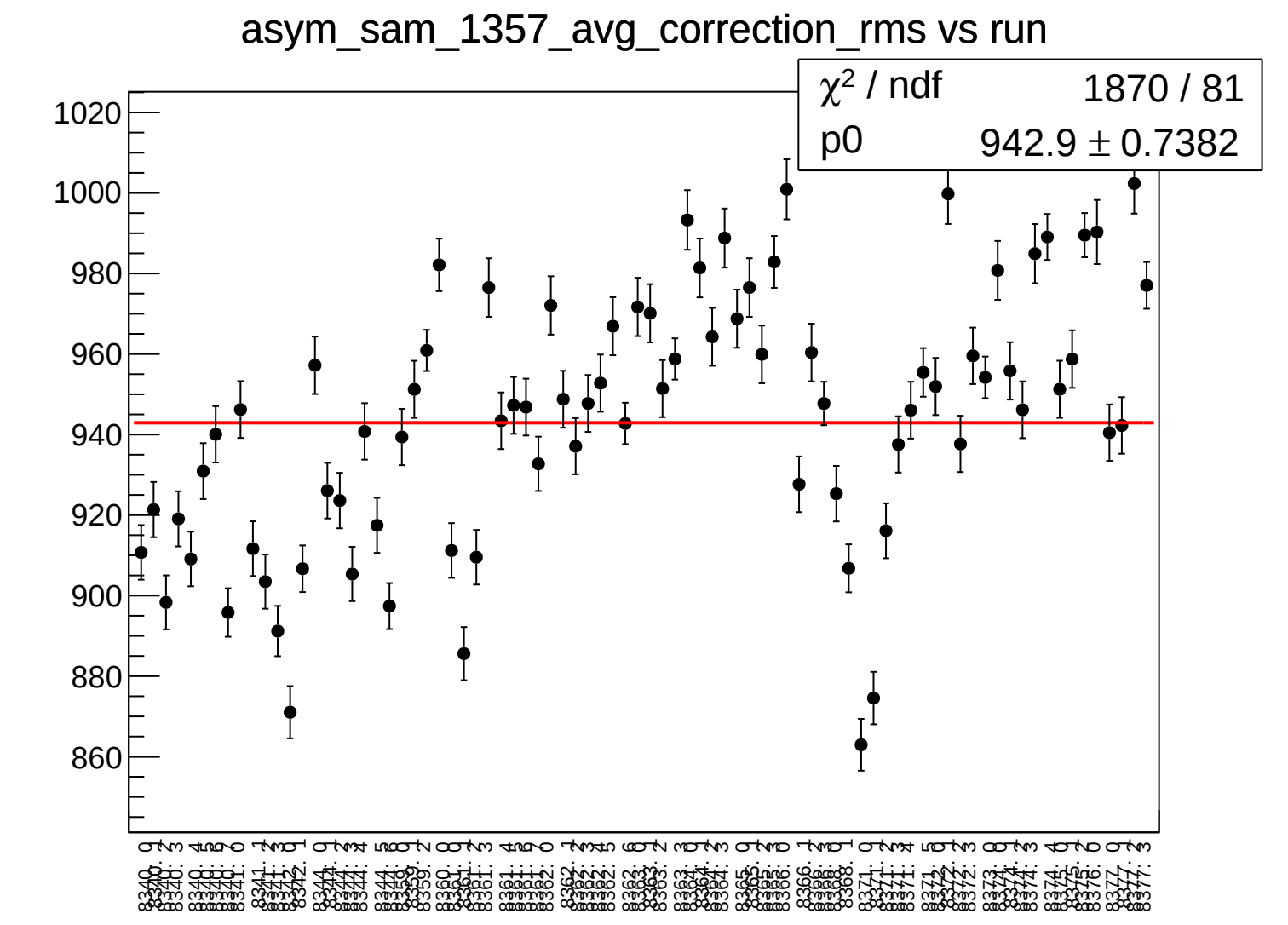

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 98.43 / 81
p0 79.02 ± 96.26
pull
Entries 82
Mean −281.3
Std Dev 339.2

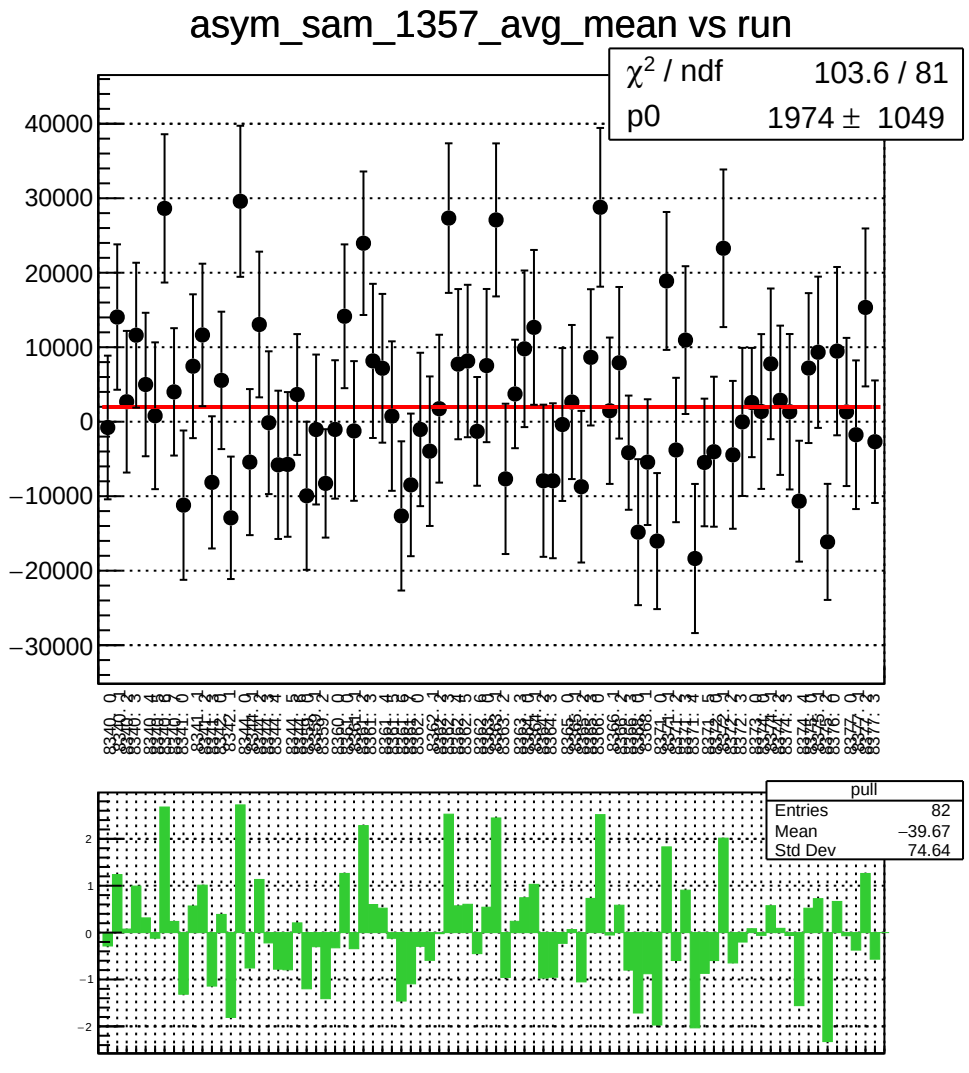

pull1D
Entries 82
Mean 0.004556
Std Dev 1.096

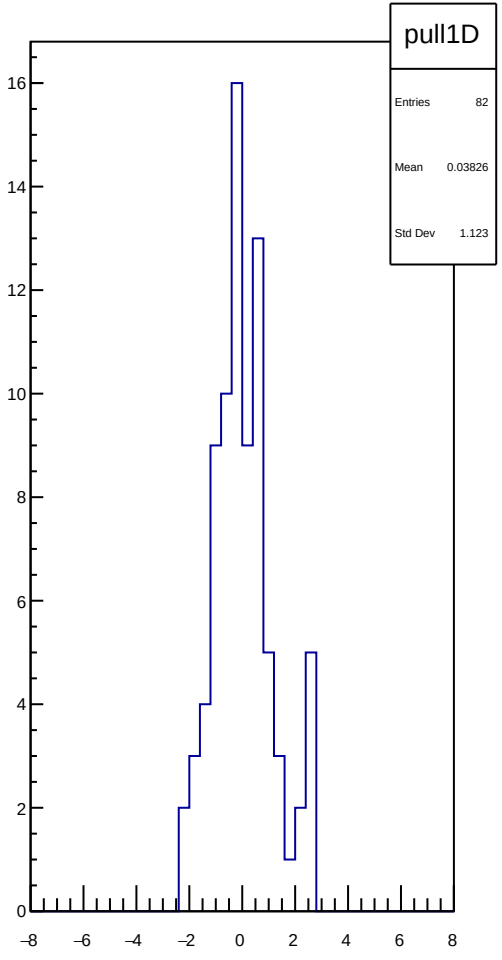

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.419e+04 / 81
p0 86.61 ± 0.06807
140
130
120
110
100
90
80
70

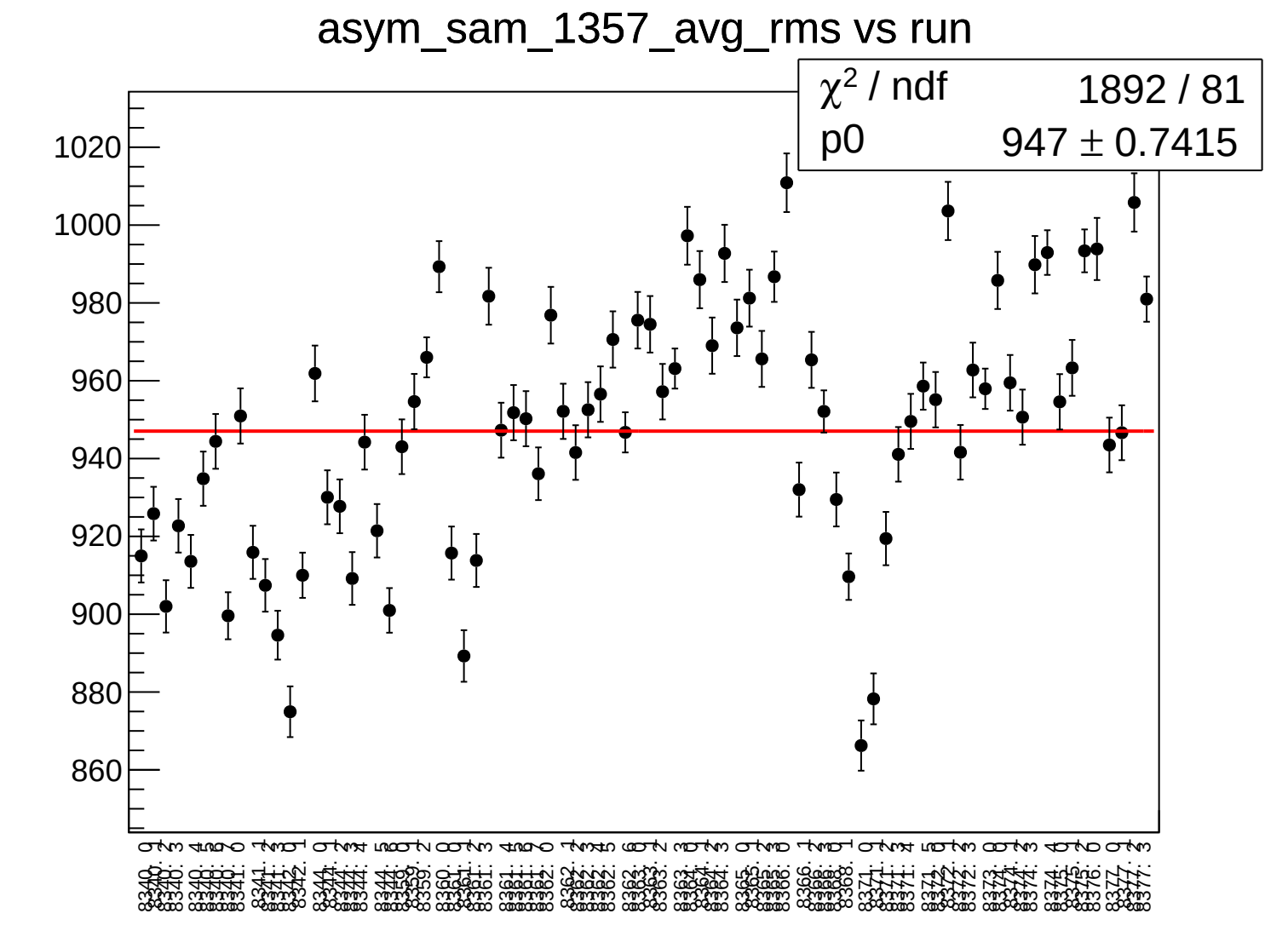

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 103.3 / 81
p0 −1905 ± 1044
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean −37.9
Std Dev 71.98
2
1
0
−1
−2
−3

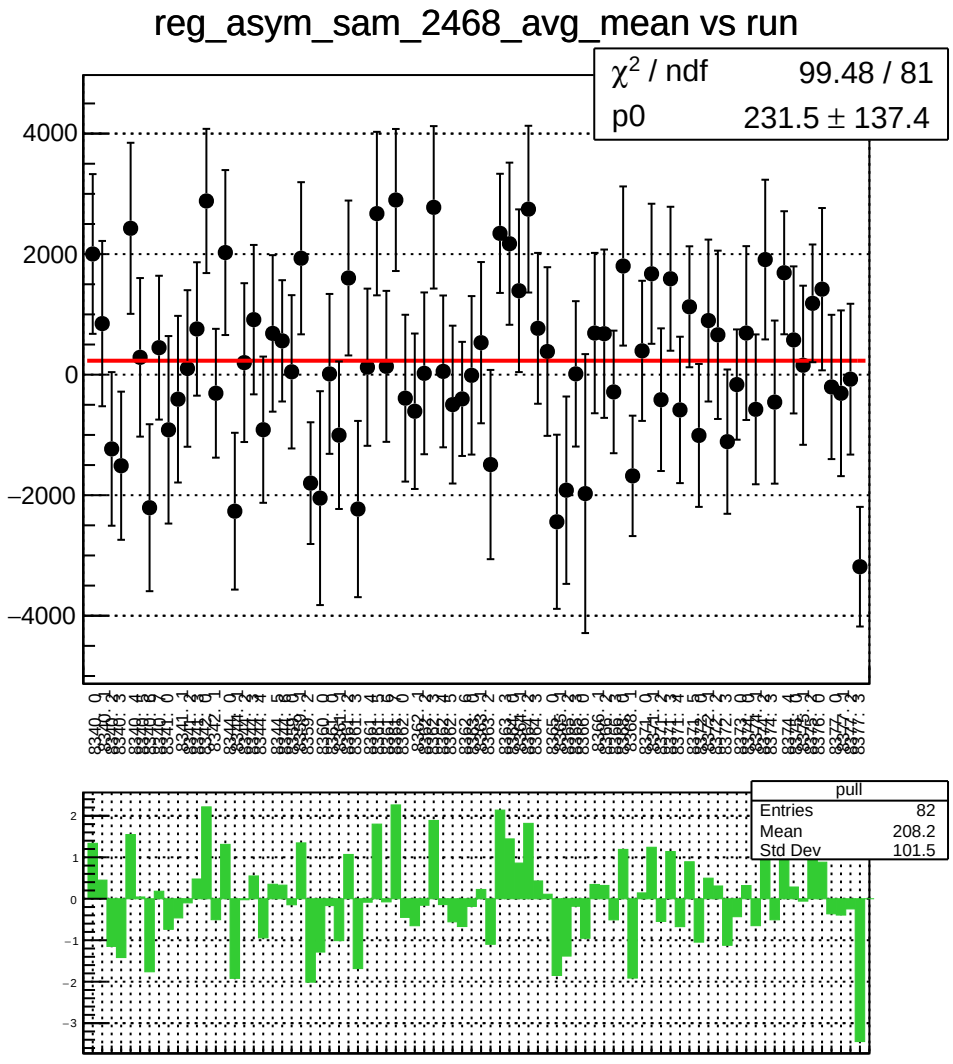

pull1D
Entries 82
Mean −0.03766
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

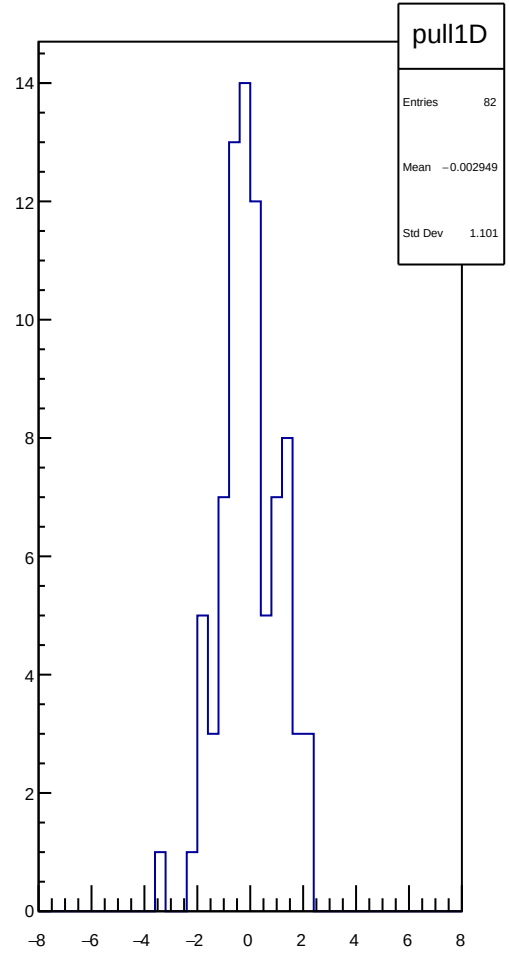

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 1870 / 81
p0 942.9 ± 0.7382
1020
1000
980
960
940
920
900
880
860

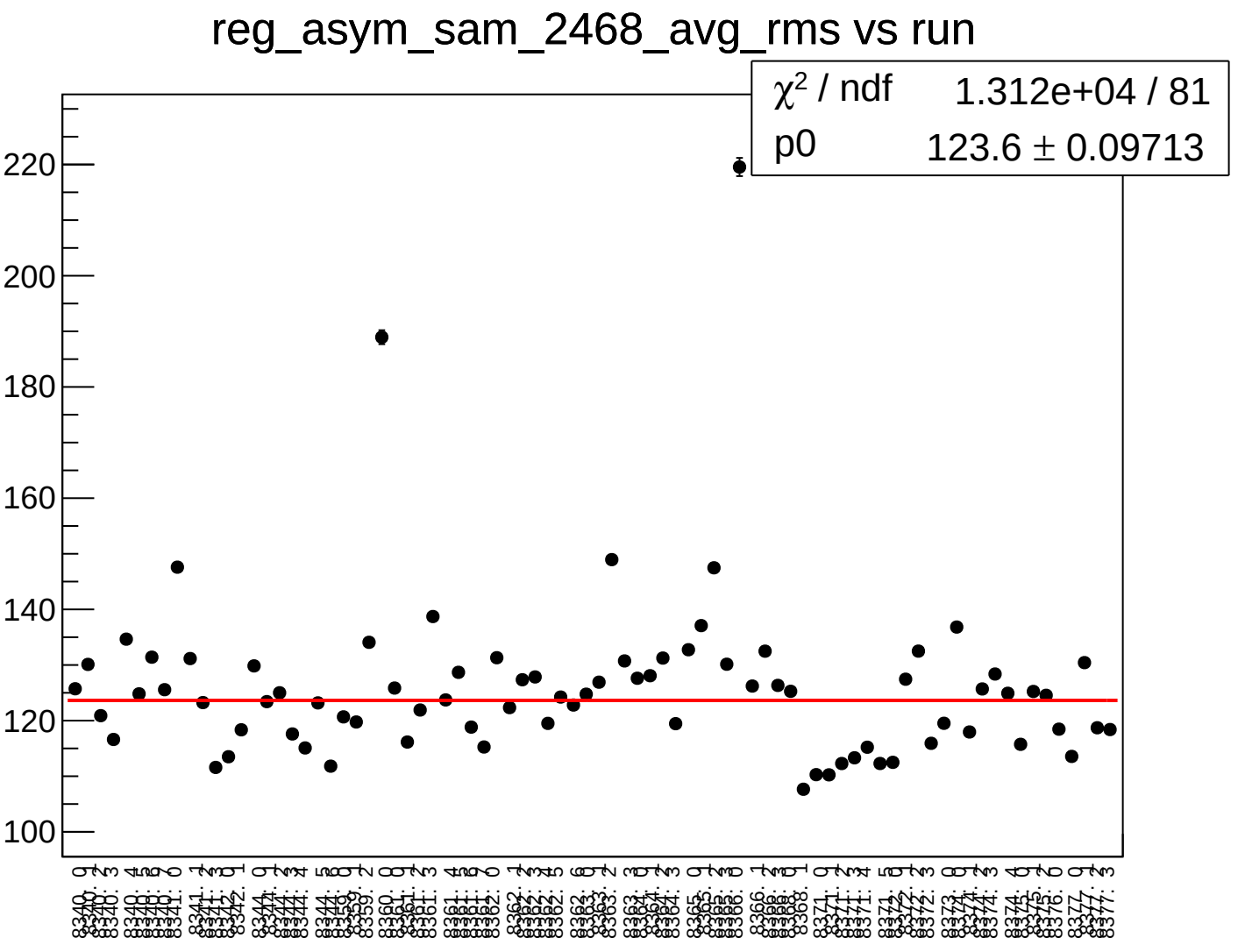

asym_sam_1357_avg_mean vs run
χ² / ndf 103.6 / 81
p0 1974 ± 1049
pull
Entries 82
Mean −39.67
Std Dev 74.64

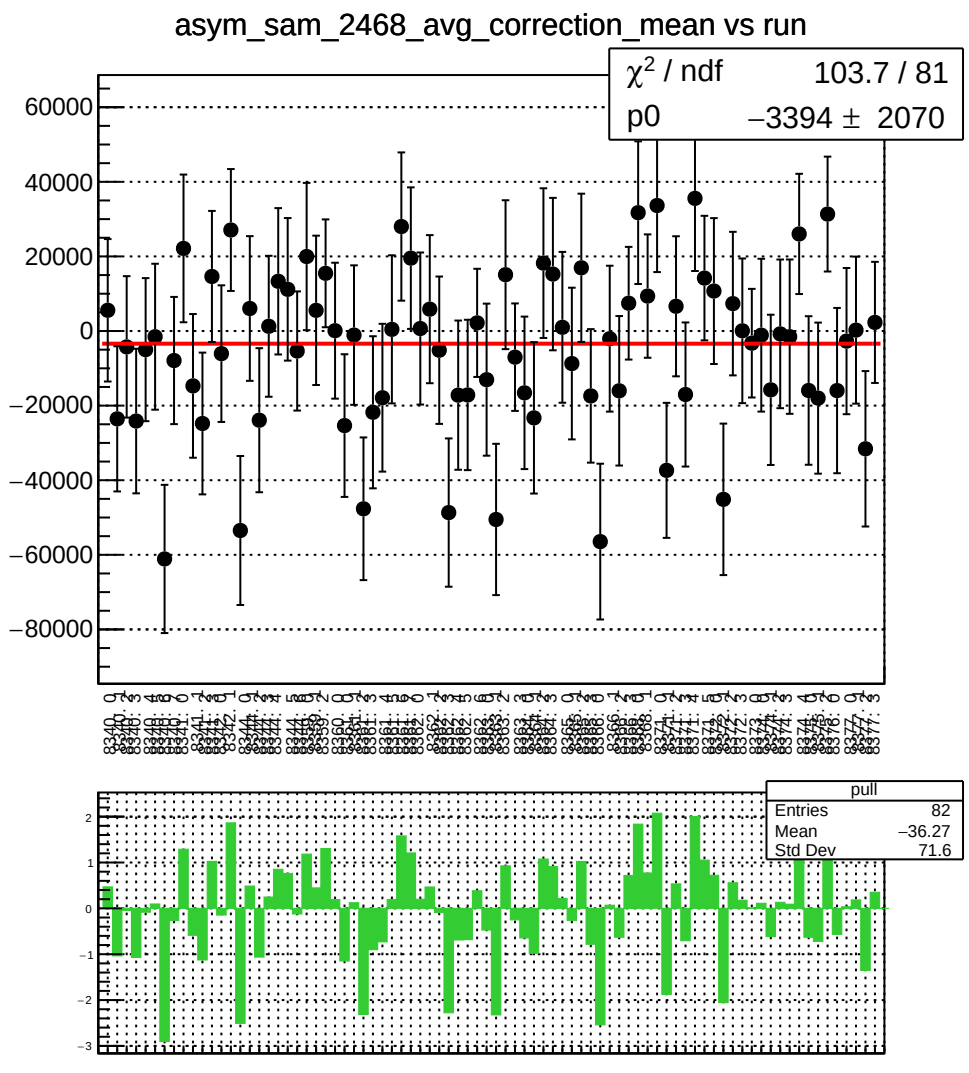

pull1D
Entries 82
Mean 0.03826
Std Dev 1.123

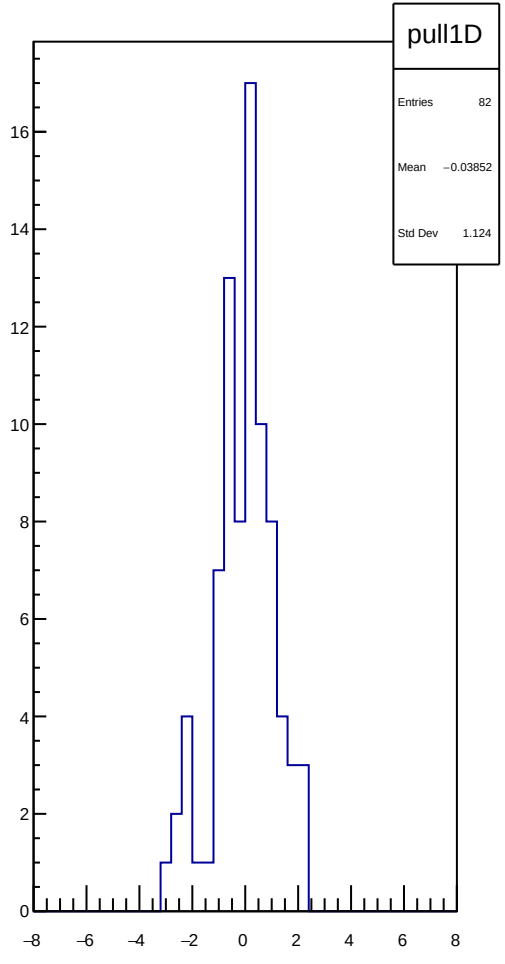

asym_sam_1357_avg_rms vs run
χ² / ndf 1892 / 81
p0 947 ± 0.7415
1020
1000
980
960
940
920
900
880
860

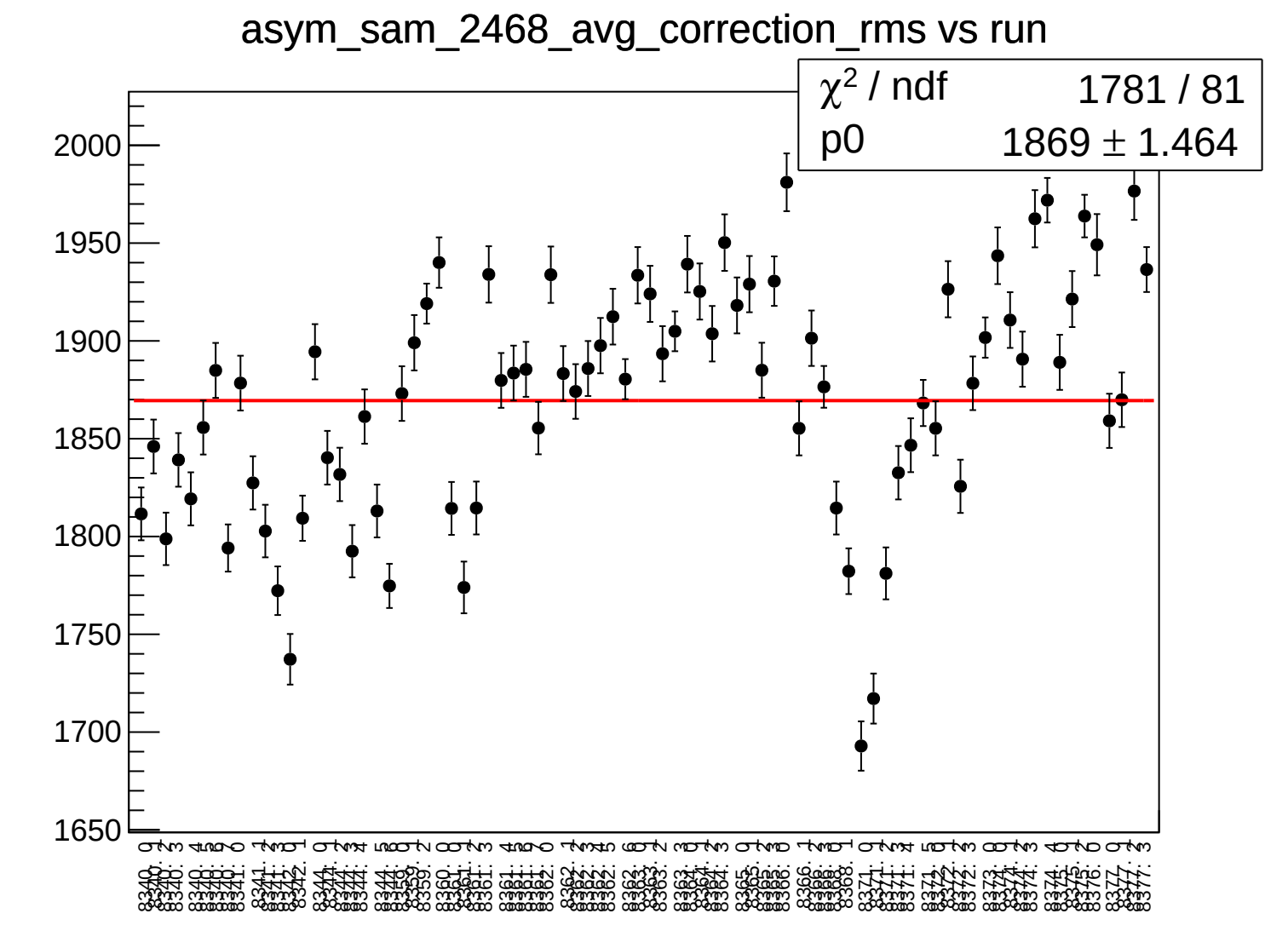

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 99.48 / 81
p0 231.5 ± 137.4
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 208.2
Std Dev 101.5
2
1
0
−1
−2
−3

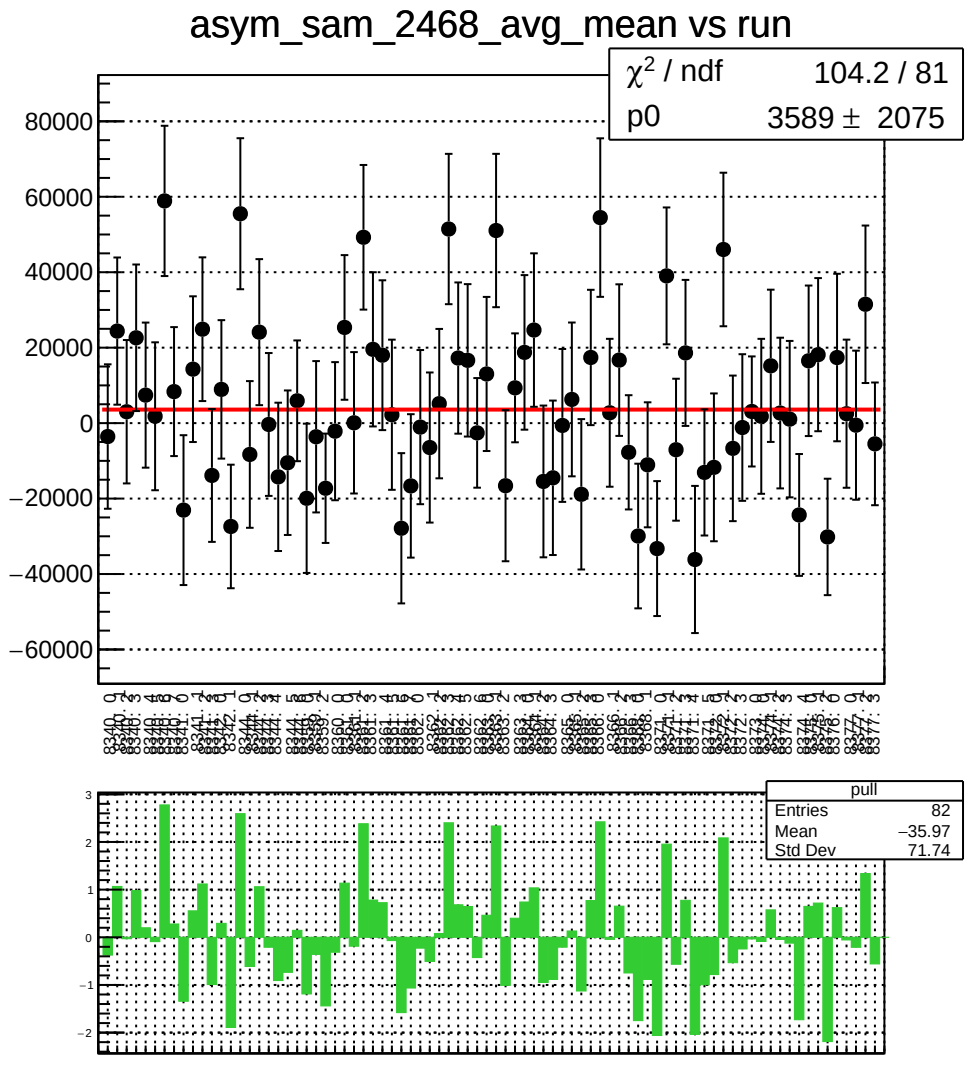

pull1D
Entries 82
Mean −0.002949
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

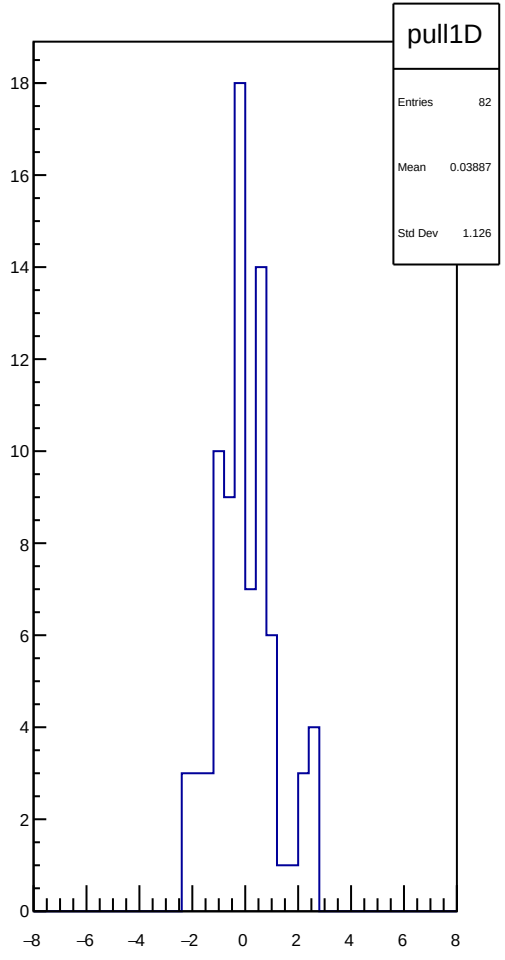

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.312e+04 / 81
p0 123.6 ± 0.09713
220
200
180
160
140
120
100

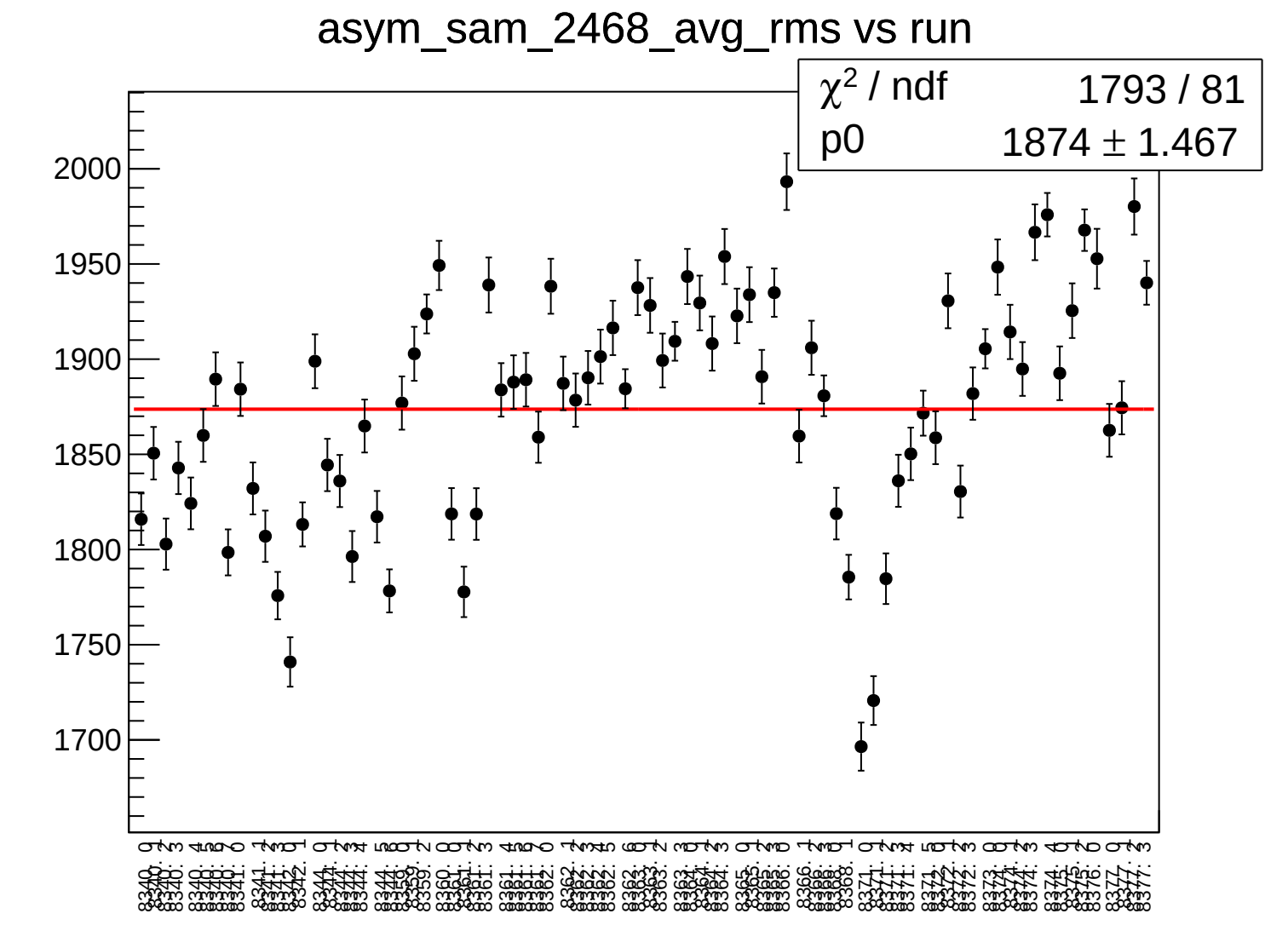

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 103.7 / 81
p0 −3394 ± 2070
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean −36.27
Std Dev 71.6
2
1
0
−1
−2
−3

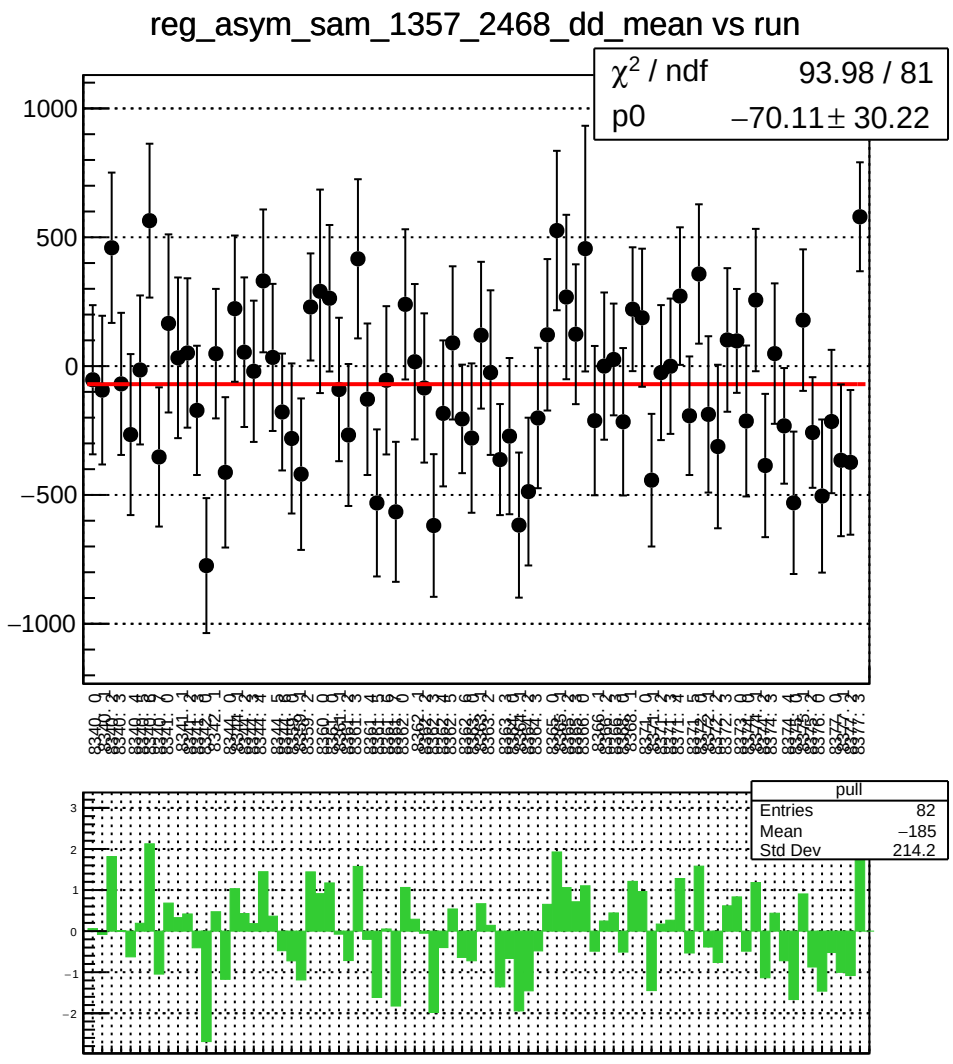

pull1D
Entries 82
Mean −0.03852
Std Dev 1.124
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

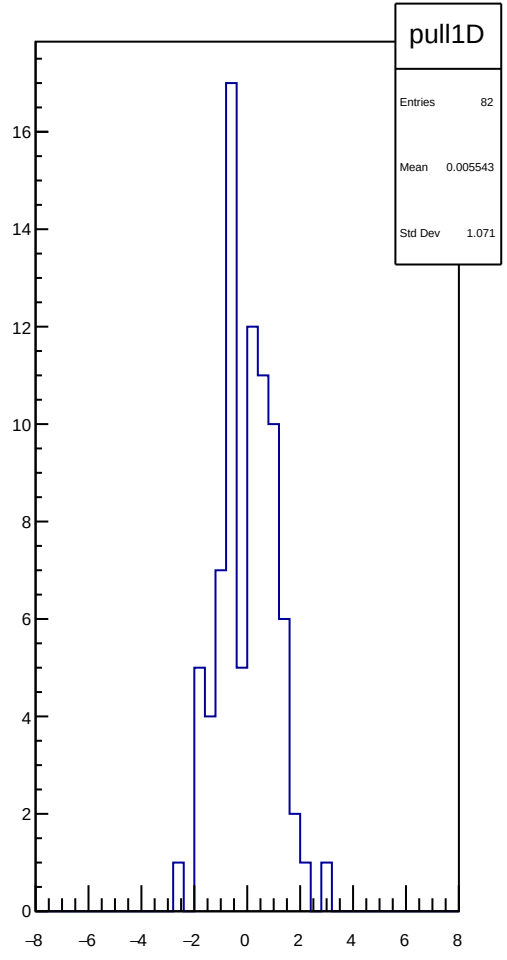

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1781 / 81
p0 1869 ± 1.464
2000
1950
1900
1850
1800
1750
1700
1650

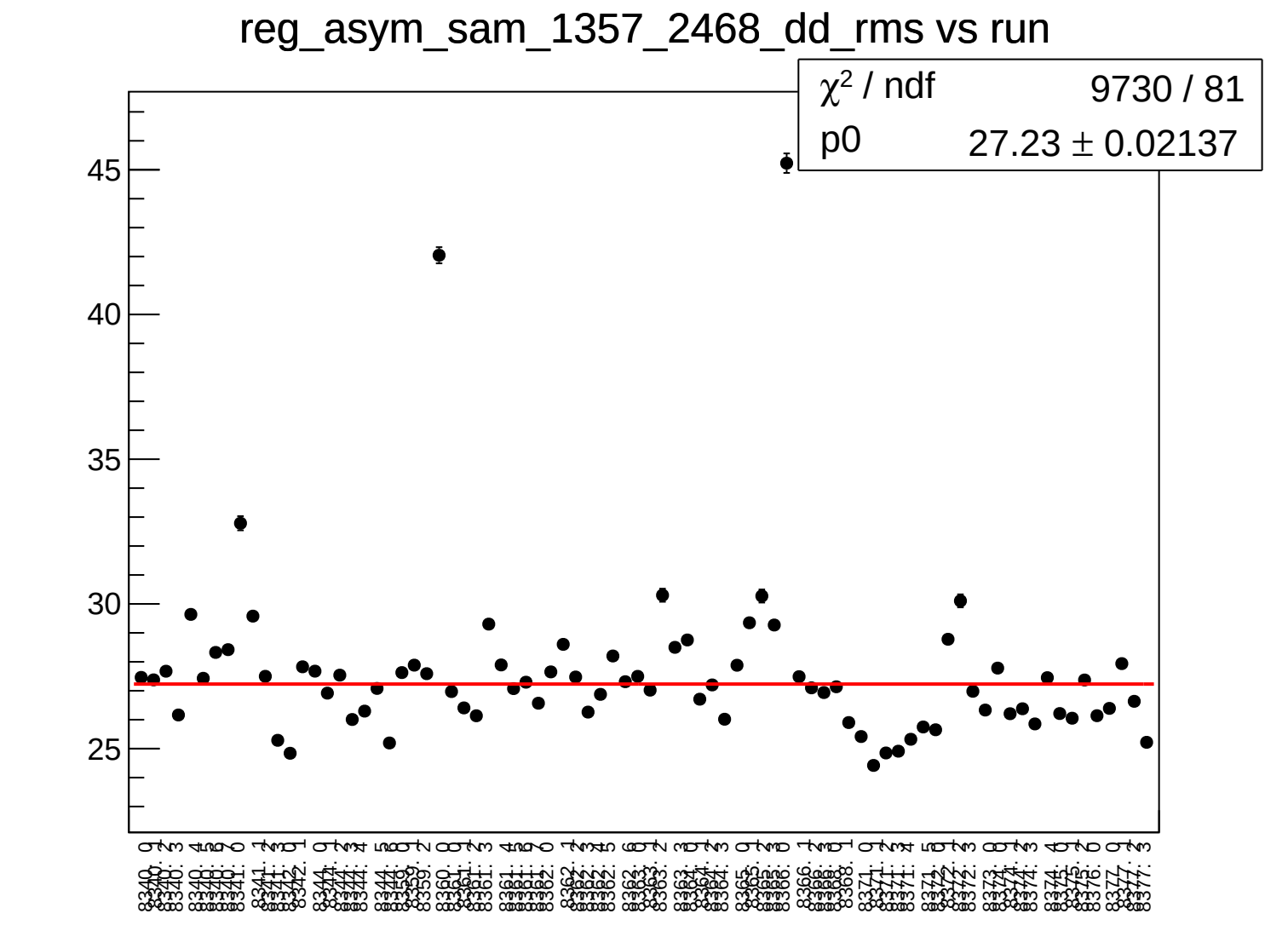

asym_sam_2468_avg_mean vs run
χ² / ndf 104.2 / 81
p0 3589 ± 2075
pull
Entries 82
Mean −35.97
Std Dev 71.74

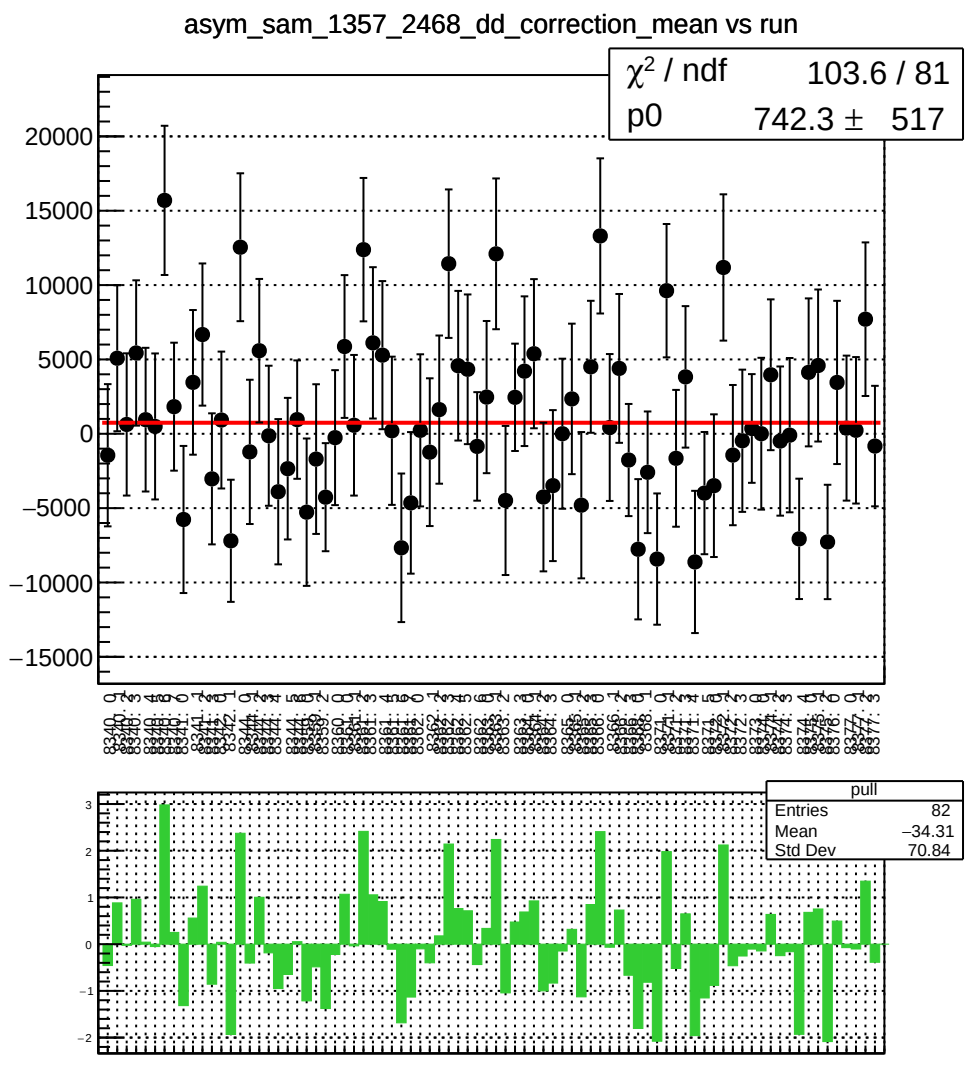

pull1D
Entries 82
Mean 0.03887
Std Dev 1.126

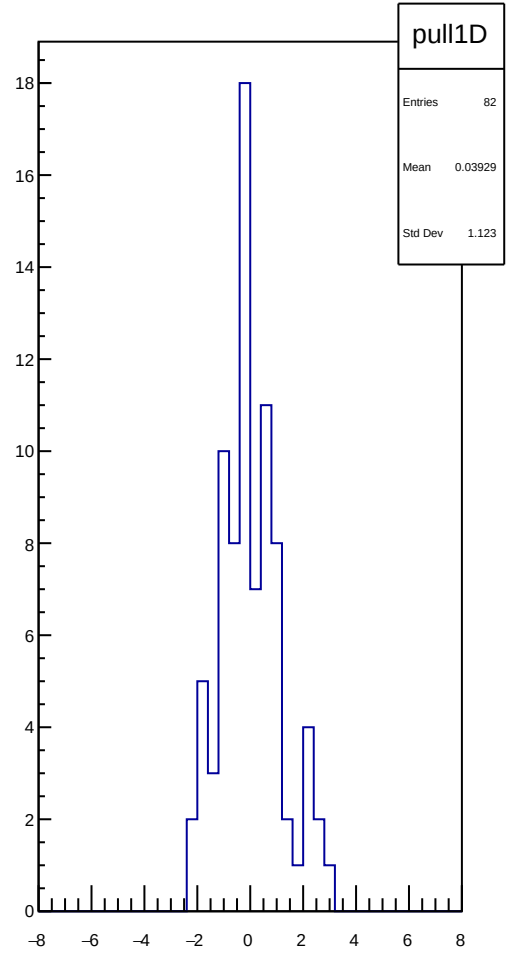

asym_sam_2468_avg_rms vs run
χ² / ndf 1793 / 81
p0 1874 ± 1.467
2000
1950
1900
1850
1800
1750
1700

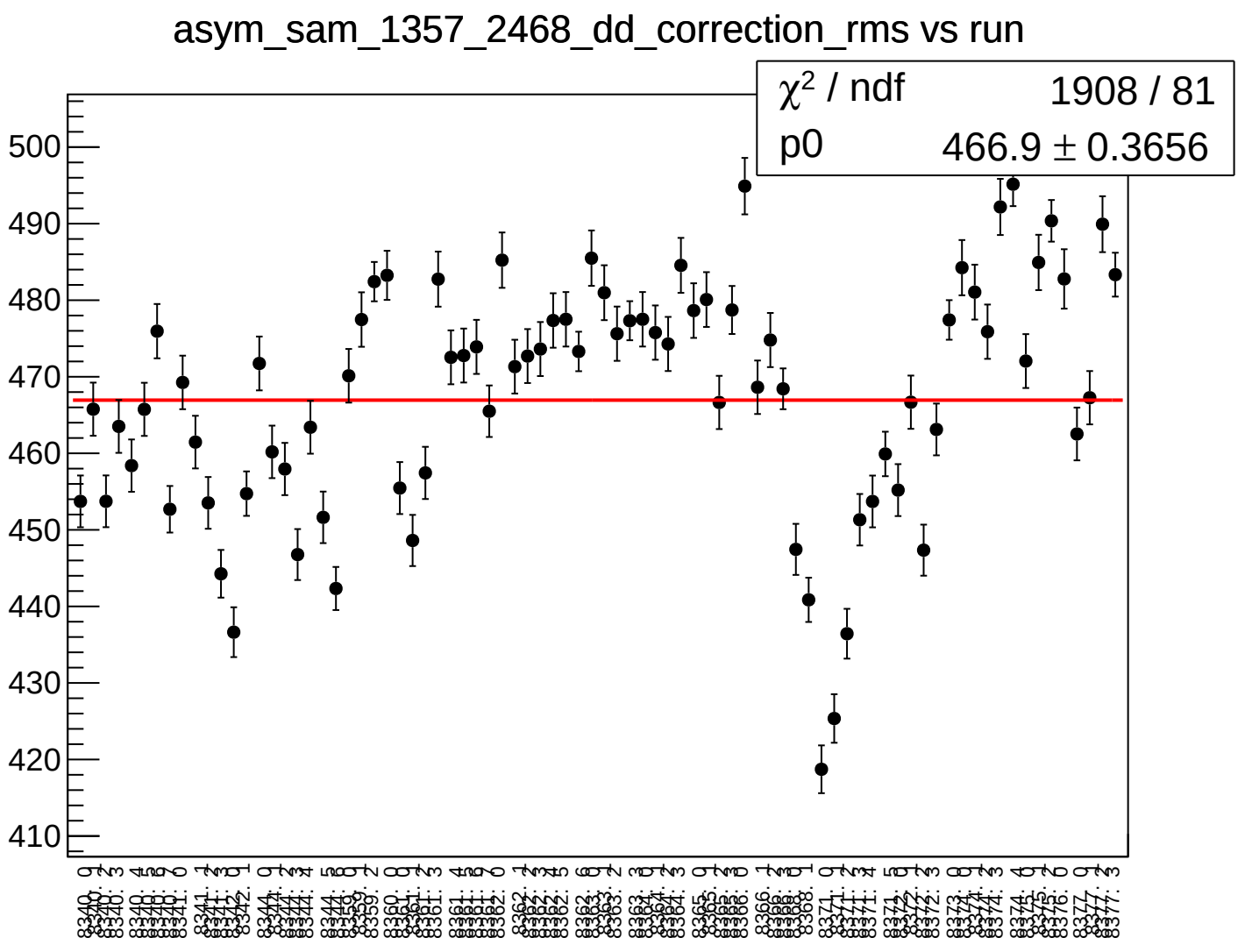

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 93.98 / 81
p0 −70.11 ± 30.22
1000
500
0
−500
−1000
pull
Entries 82
Mean −185
Std Dev 214.2
3
2
1
0
−1
−2

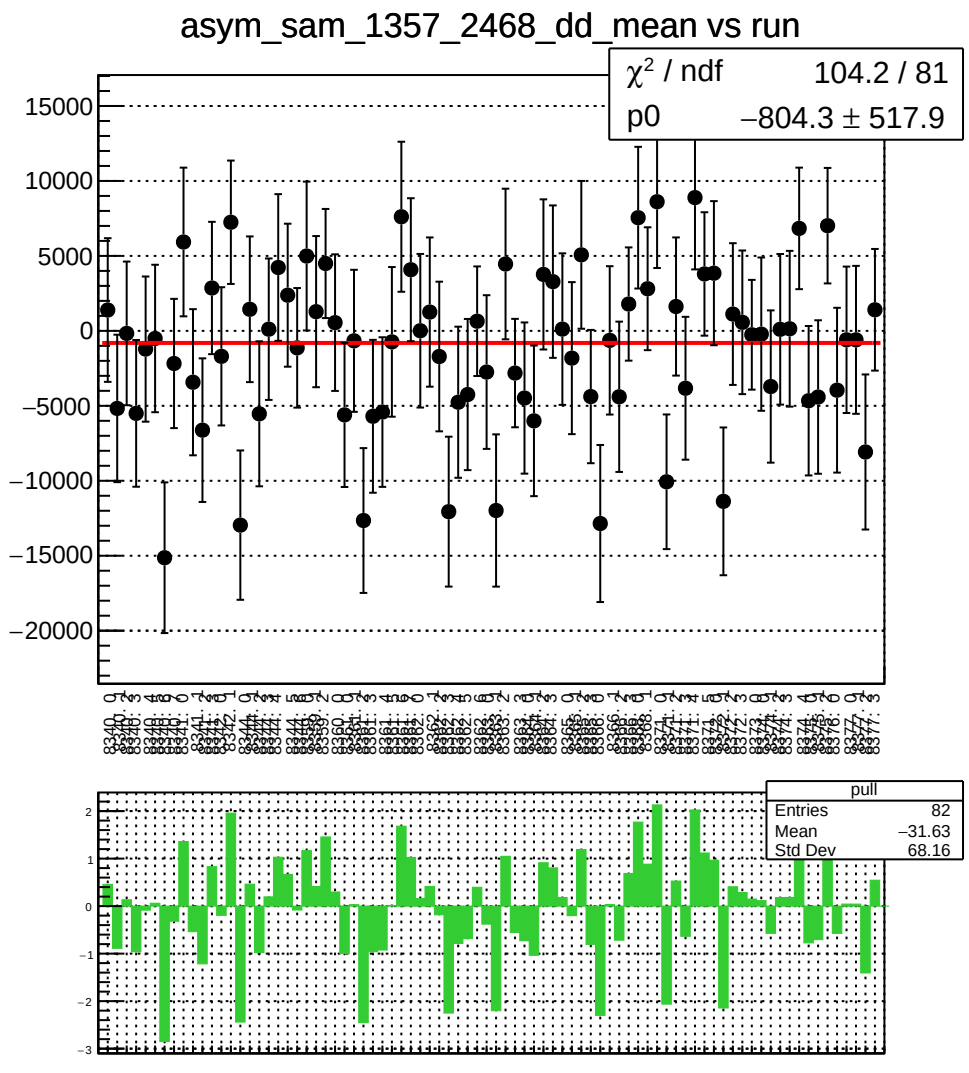

pull1D
Entries 82
Mean 0.005543
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

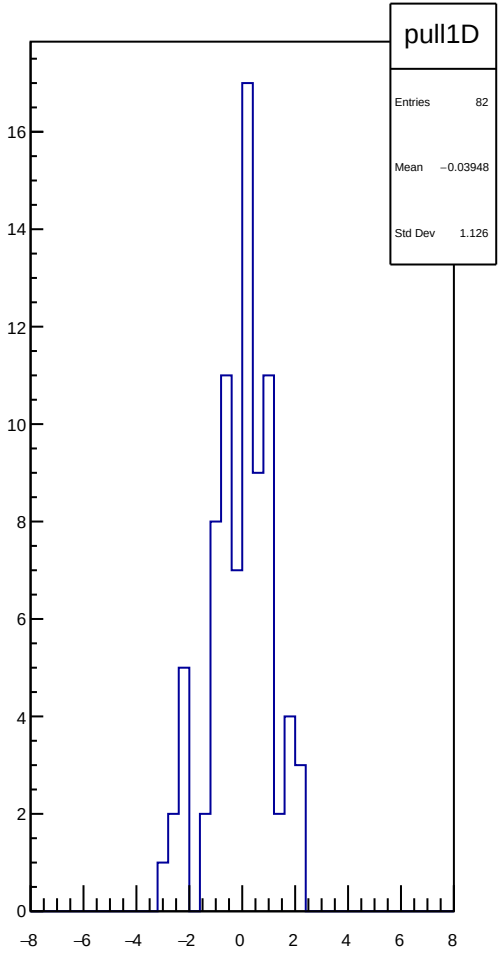

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 9730 / 81
p0 27.23 ± 0.02137
45
40
35
30
25

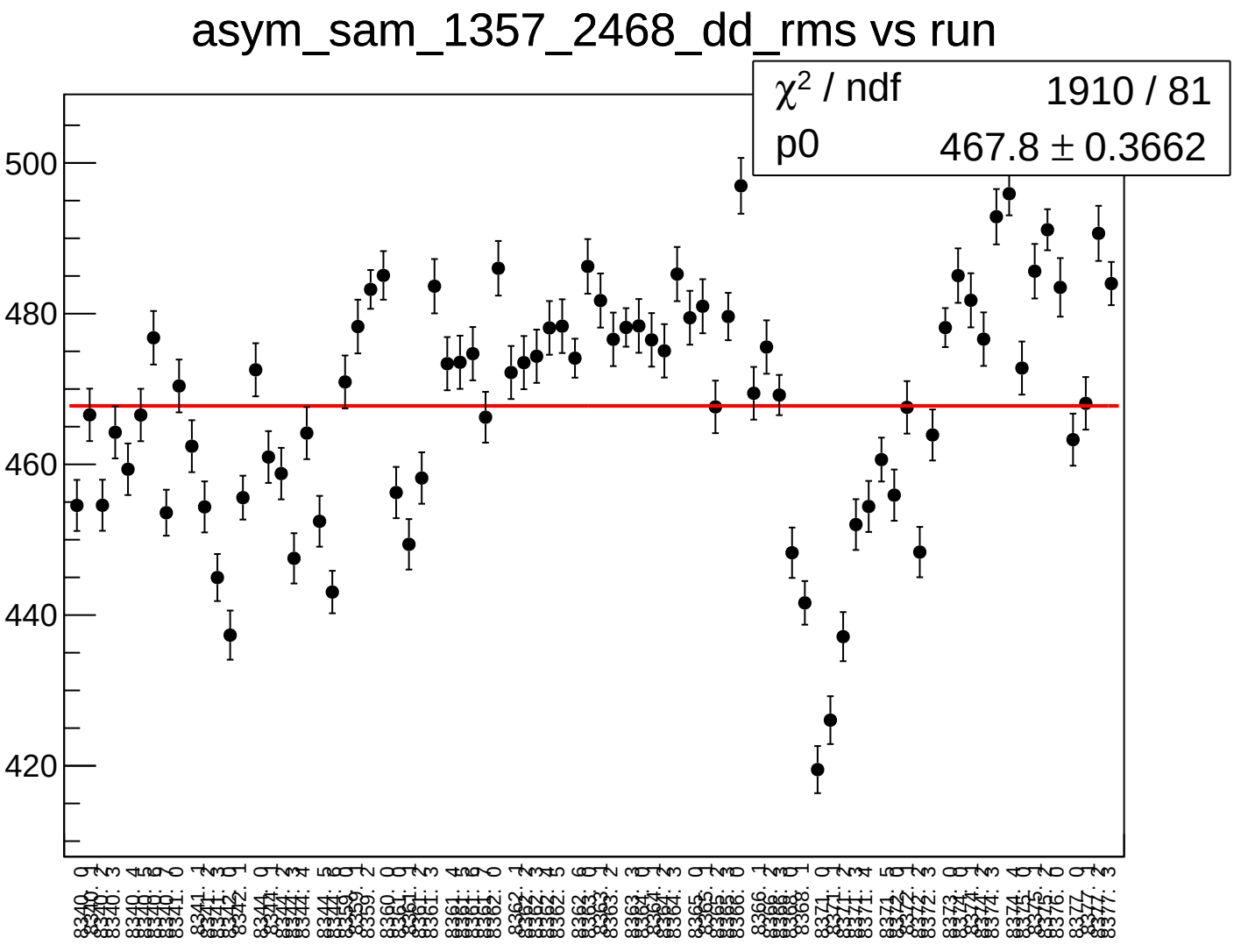

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 103.6 / 81
p0 742.3 ± 517
pull
Entries 82
Mean −34.31
Std Dev 70.84

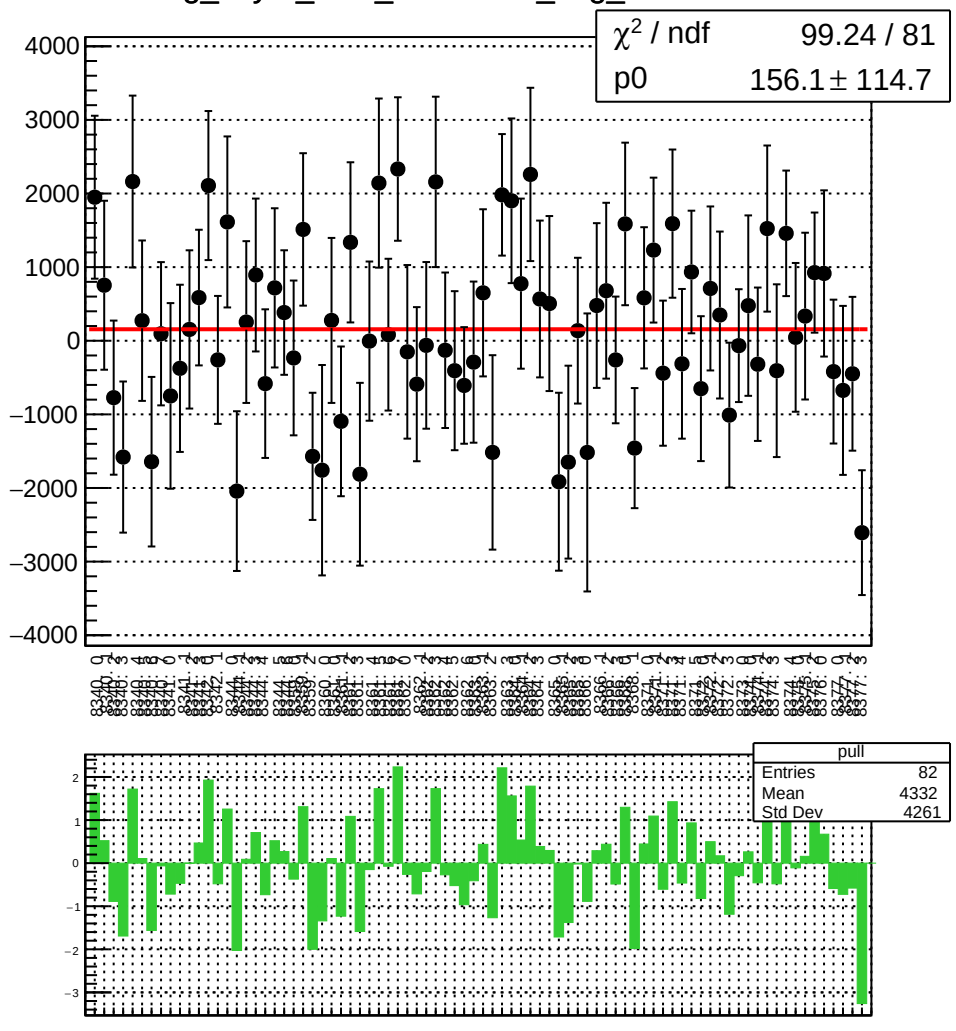

pull1D
Entries 82
Mean 0.03929
Std Dev 1.123

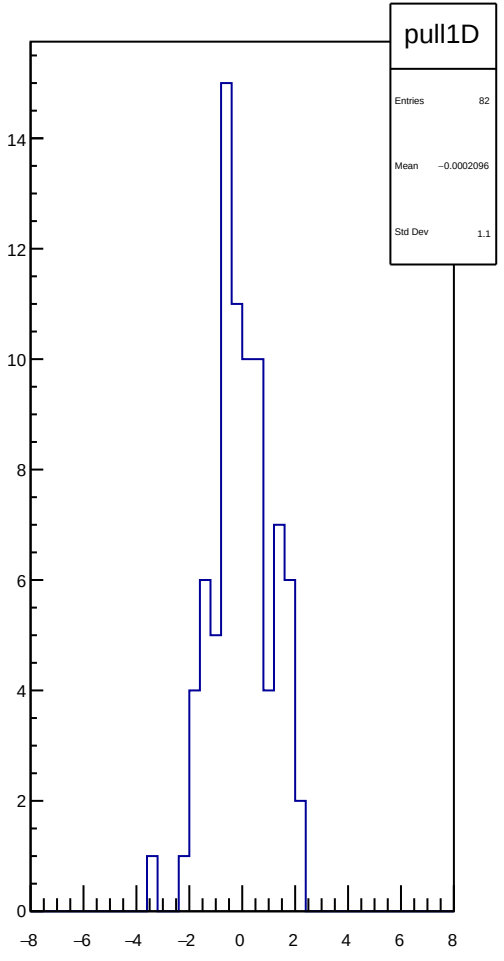

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1908 / 81
p0 466.9 ± 0.3656
500
490
480
470
460
450
440
430
420
410

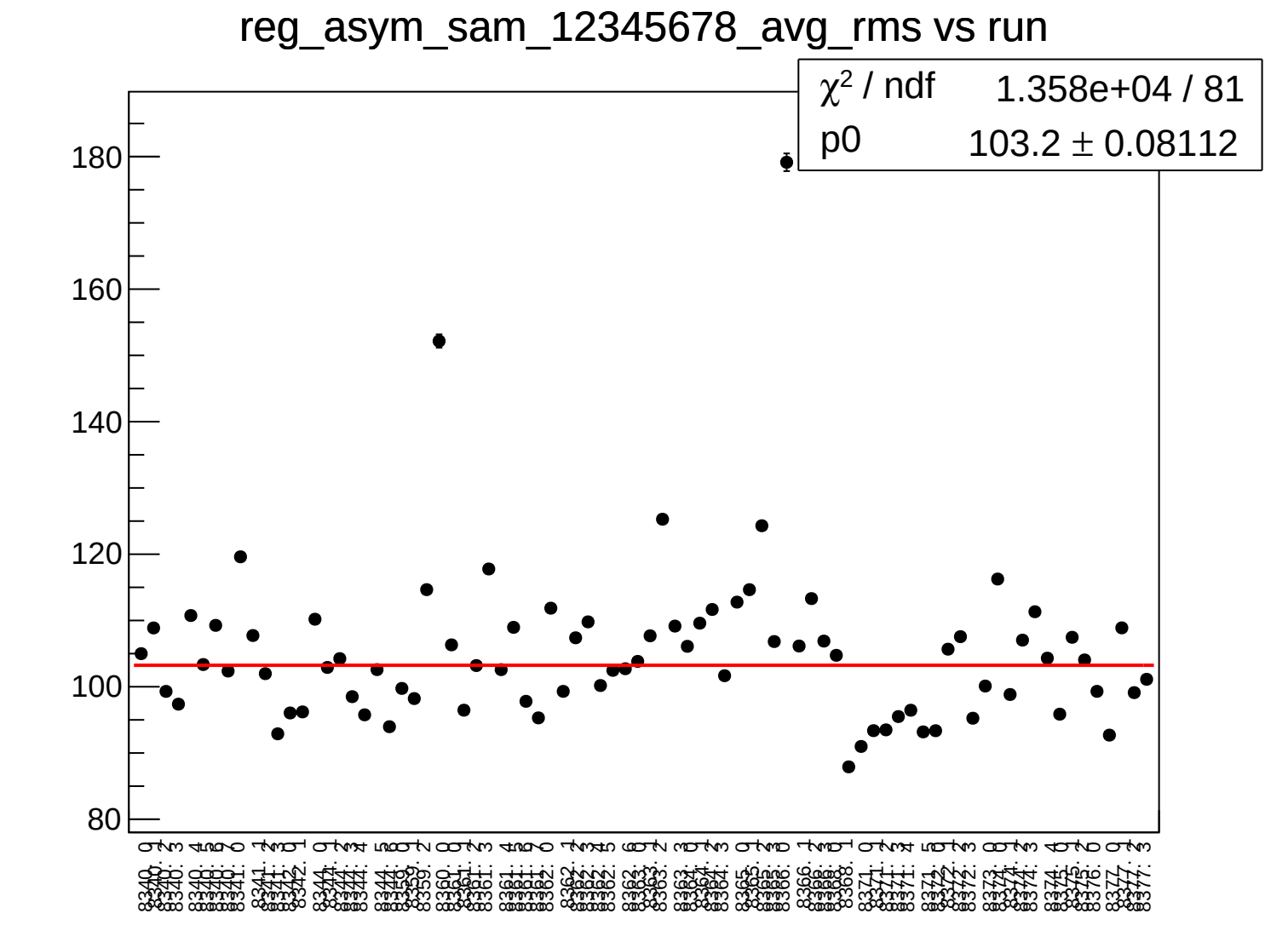

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 104.2 / 81
p0 −804.3 ± 517.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 82
Mean −31.63
Std Dev 68.16
2
1
0
−1
−2
−3

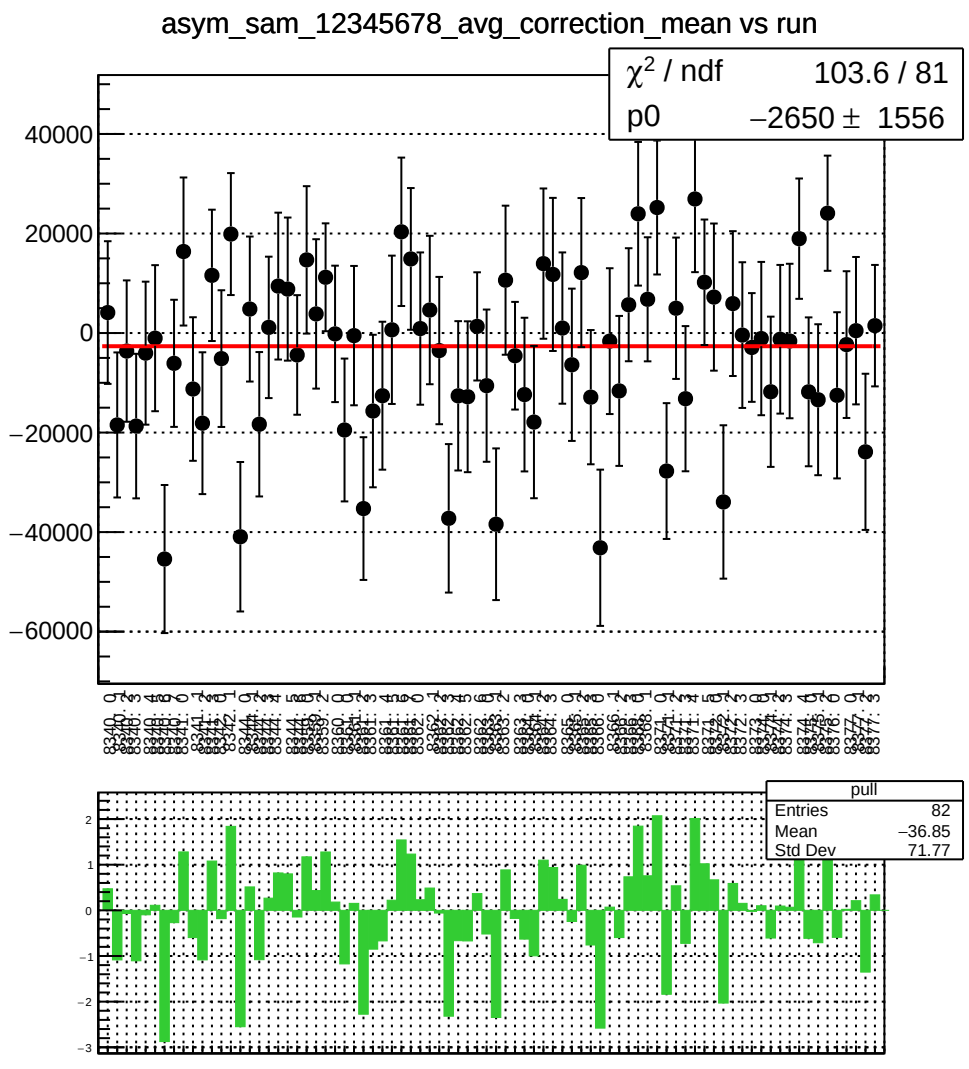

pull1D
Entries 82
Mean −0.03948
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

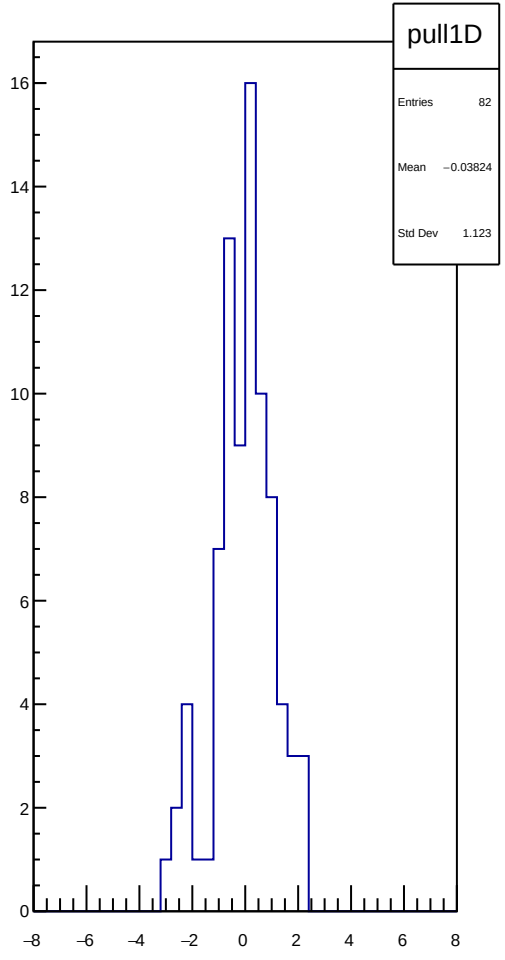

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1910 / 81
p0 467.8 ± 0.3662
500
480
460
440
420

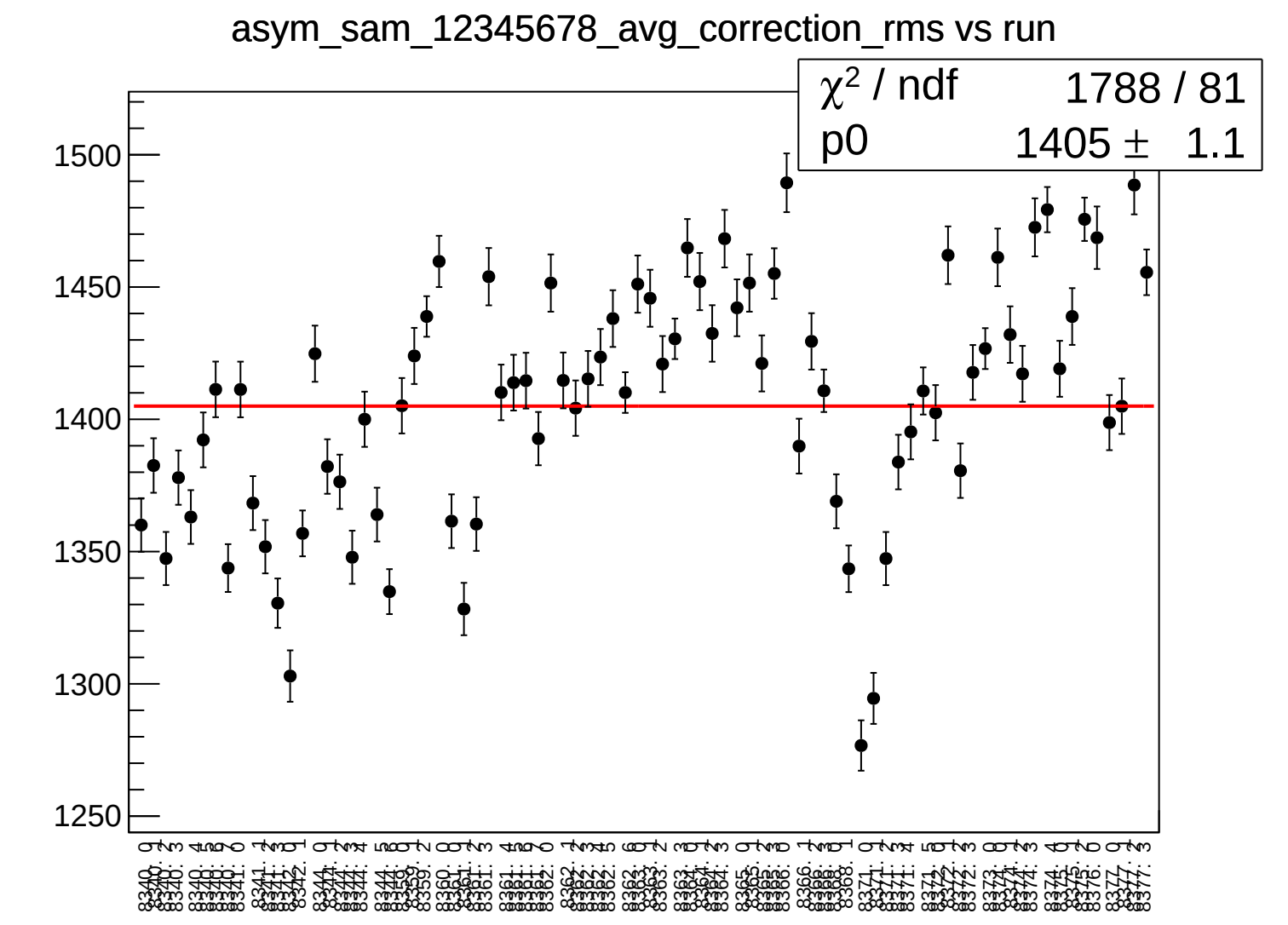

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 99.24 / 81
p0 156.1 ± 114.7
pull
Entries 82
Mean 4332
Std Dev 4261

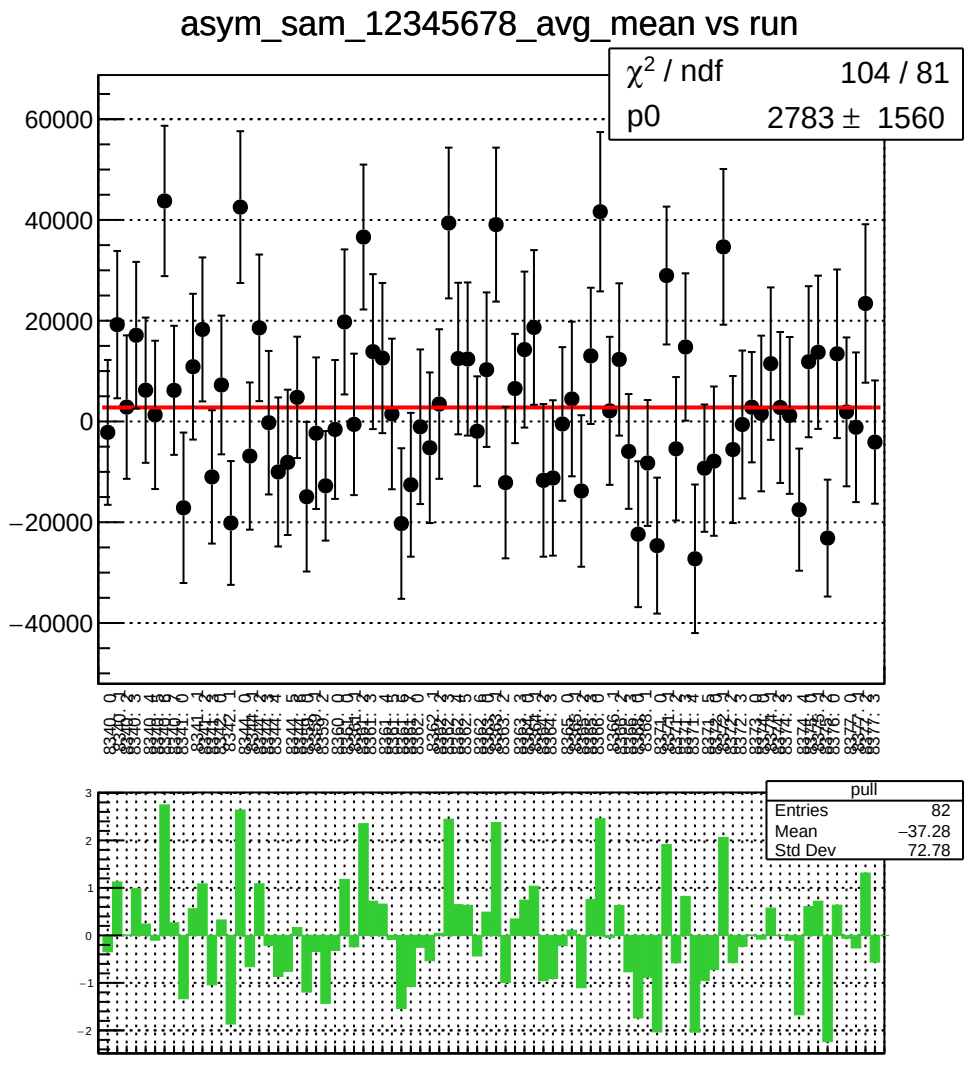

pull1D
Entries 82
Mean −0.0002096
Std Dev 1.1

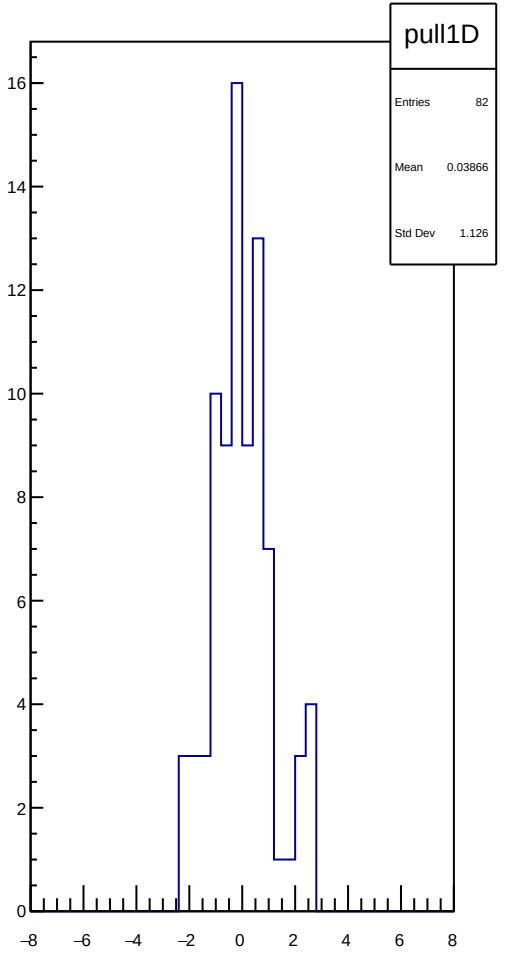

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.358e+04 / 81
p0 103.2 ± 0.08112
180
160
140
120
100
80

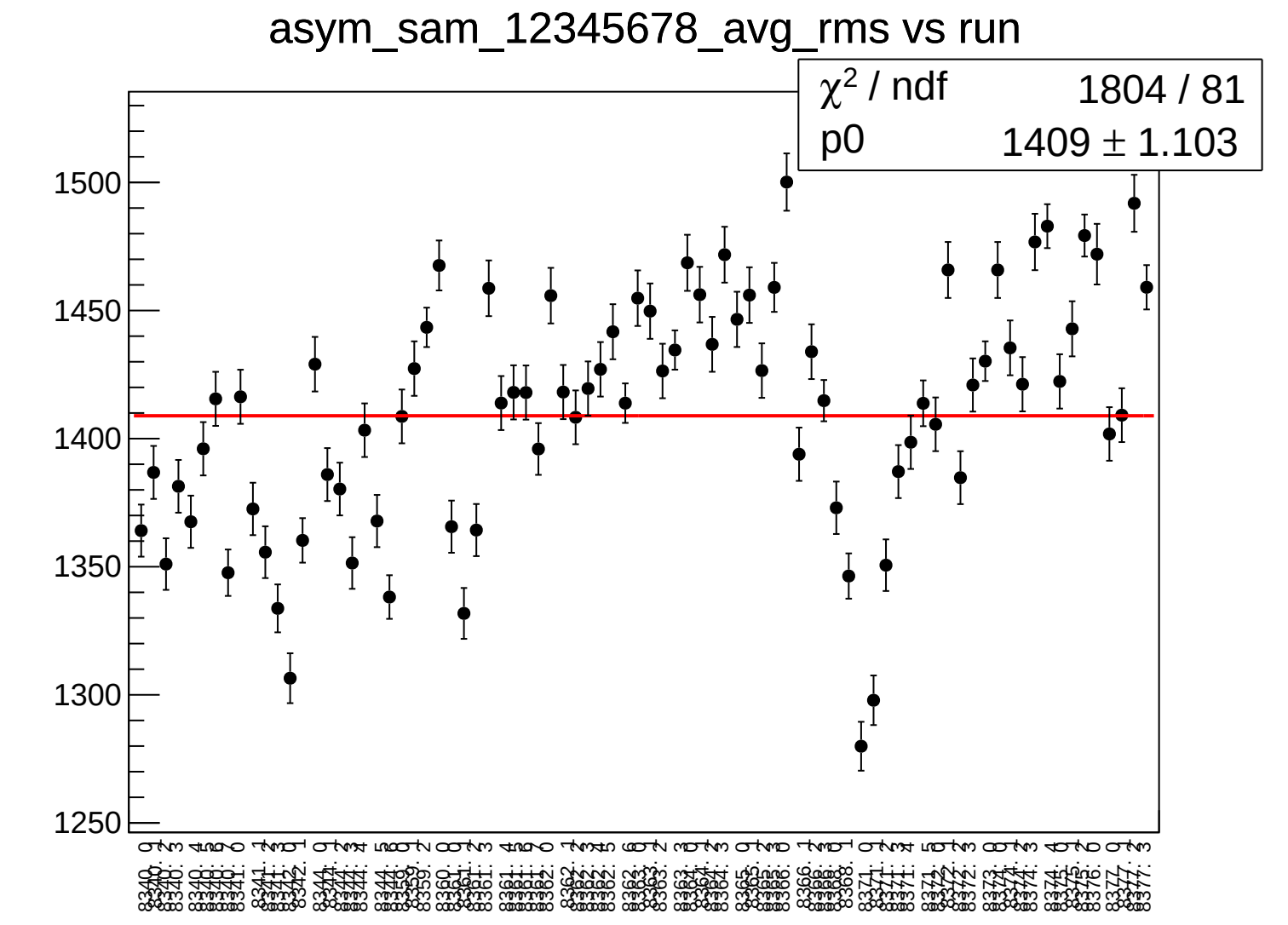

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 103.6 / 81
p0 −2650 ± 1556
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −36.85
Std Dev 71.77
2
1
0
−1
−2
−3

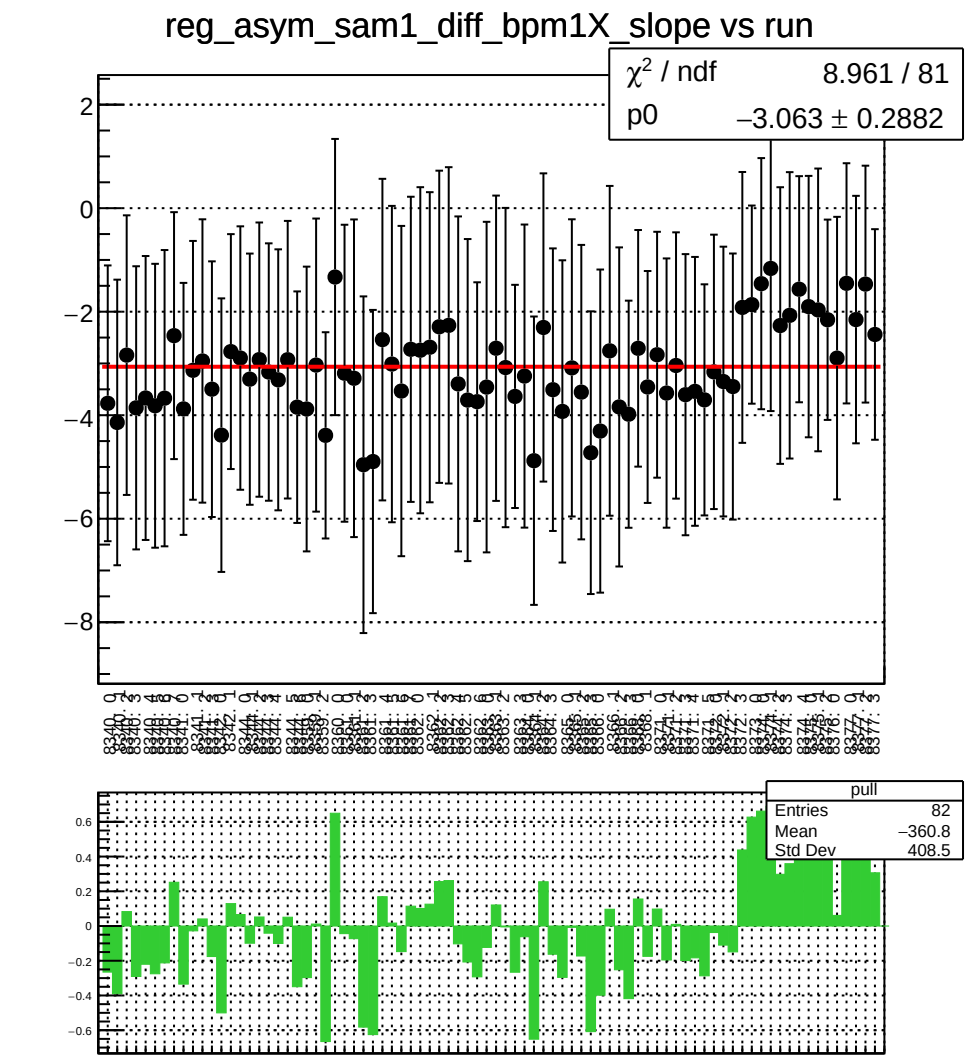

pull1D
Entries 82
Mean −0.03824
Std Dev 1.123
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

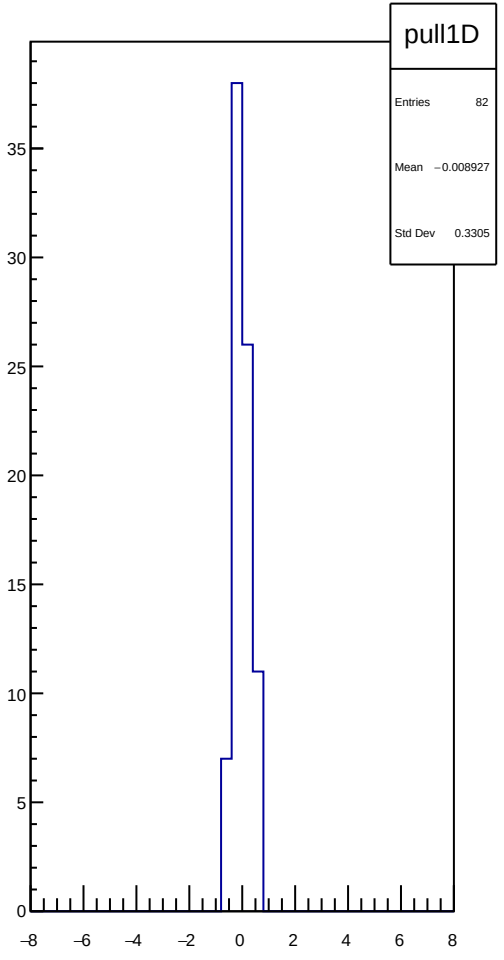

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 1788 / 81
p0 1405 ± 1.1
1500
1450
1400
1350
1300
1250

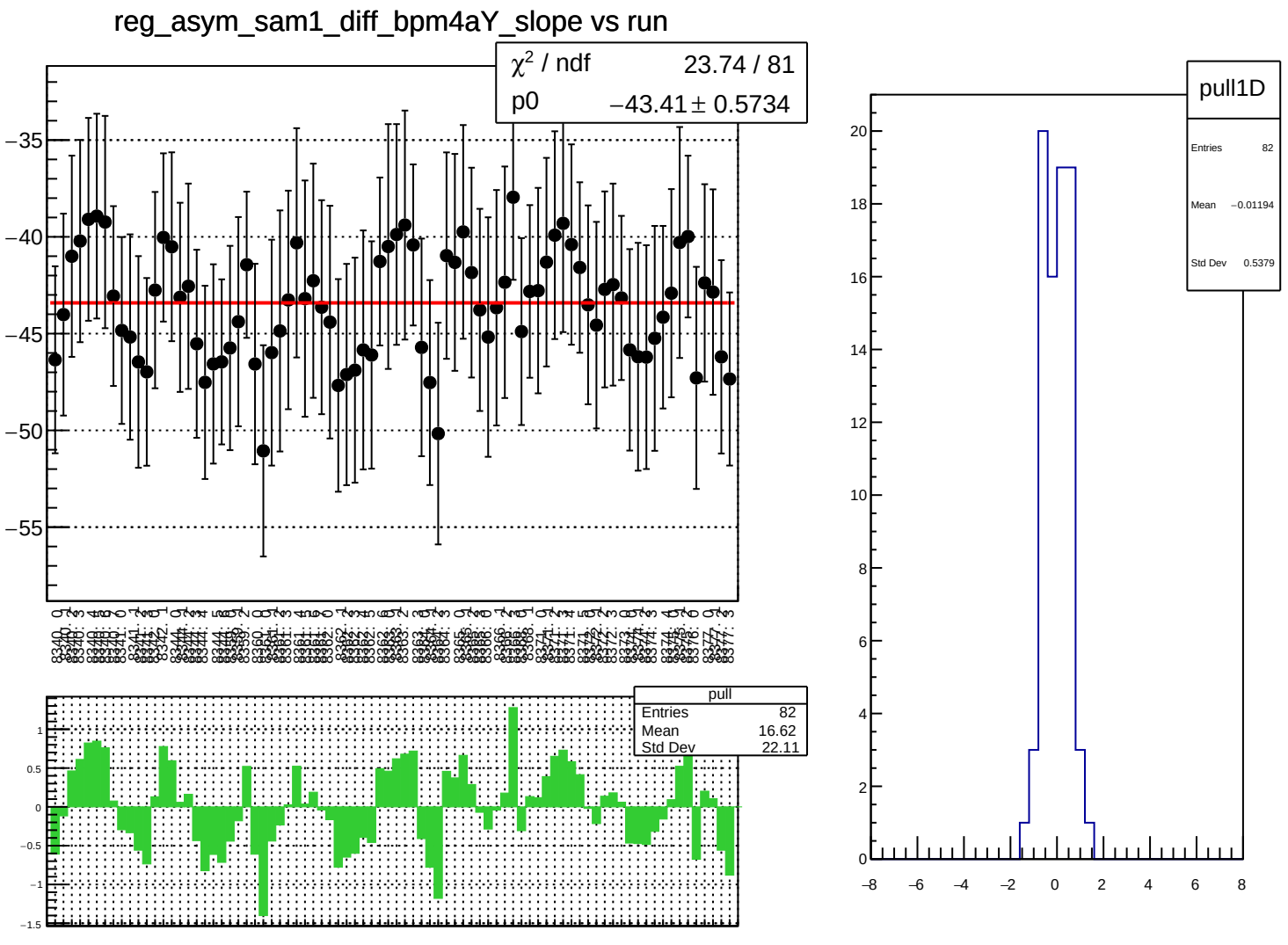

asym_sam_12345678_avg_mean vs run
χ² / ndf 104 / 81
p0 2783 ± 1560
pull
Entries 82
Mean −37.28
Std Dev 72.78

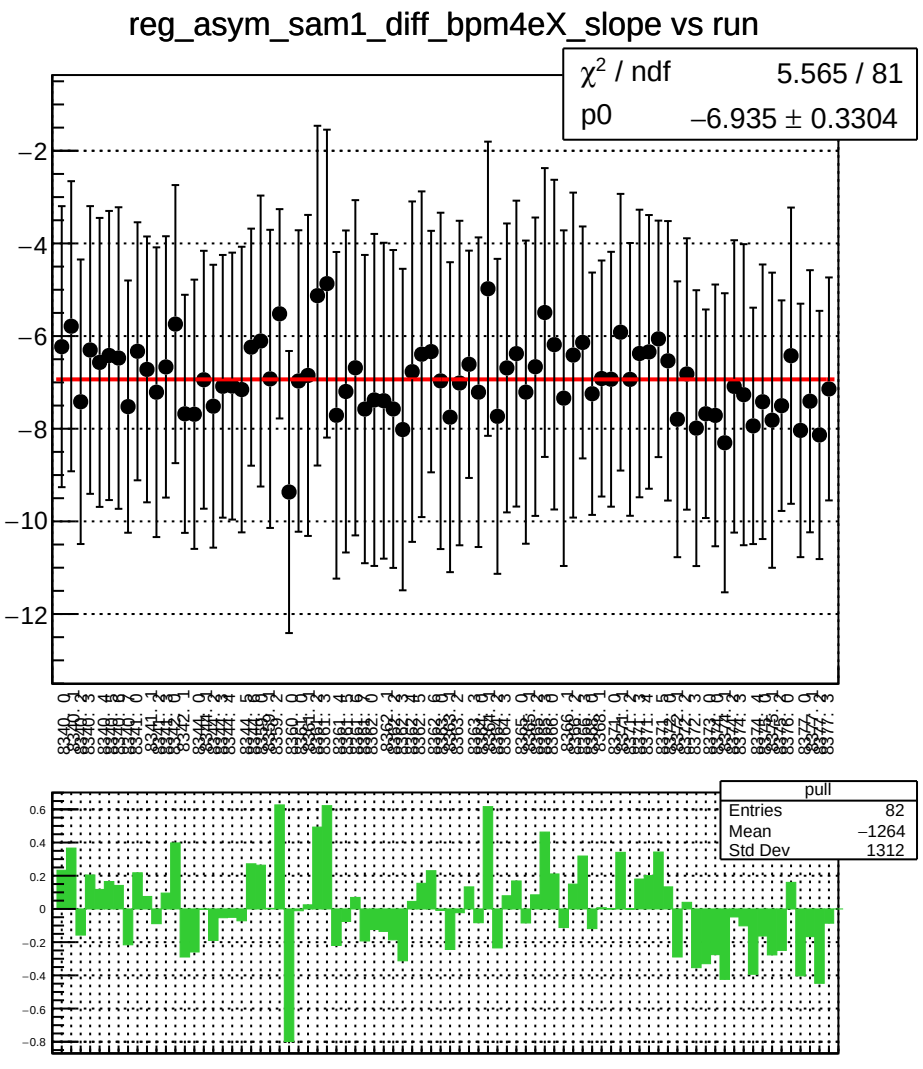

pull1D
Entries 82
Mean 0.03866
Std Dev 1.126

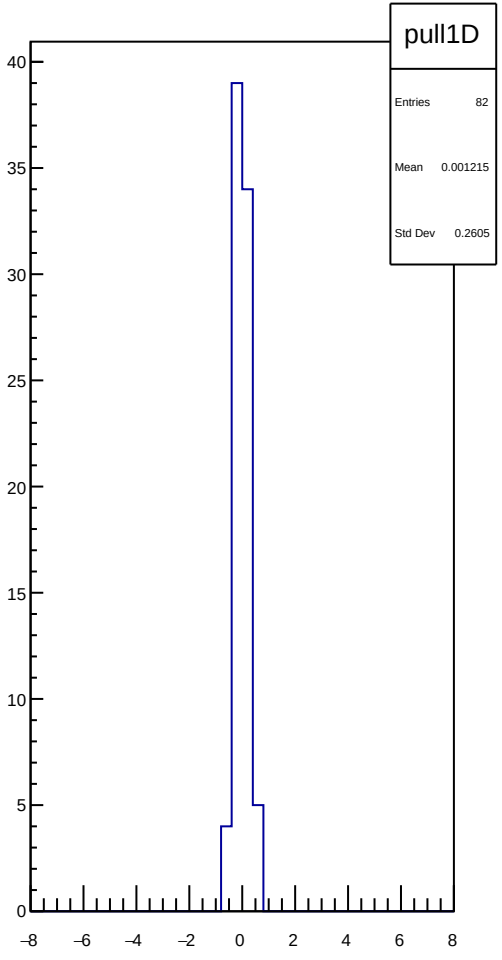

asym_sam_12345678_avg_rms vs run
χ² / ndf 1804 / 81
p0 1409 ± 1.103
1500
1450
1400
1350
1300
1250

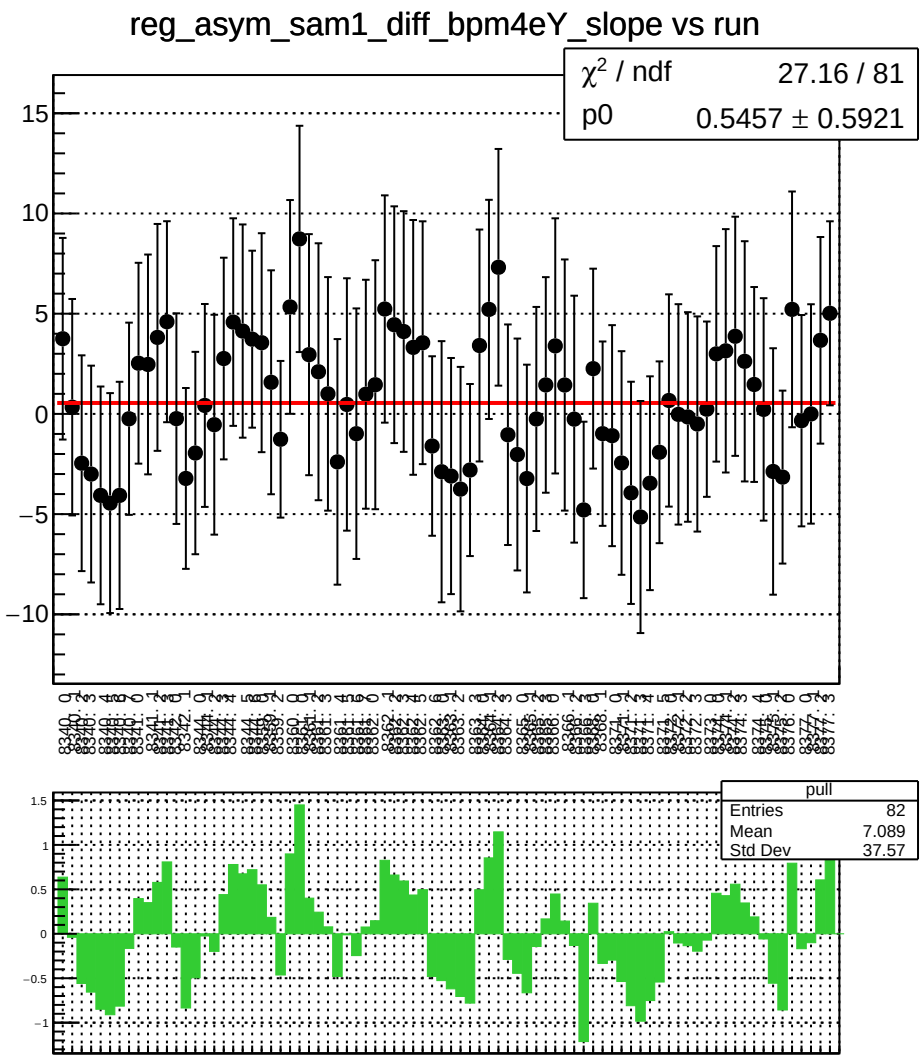

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 8.961 / 81
p0 −3.063 ± 0.2882
pull
Entries 82
Mean −360.8
Std Dev 408.5

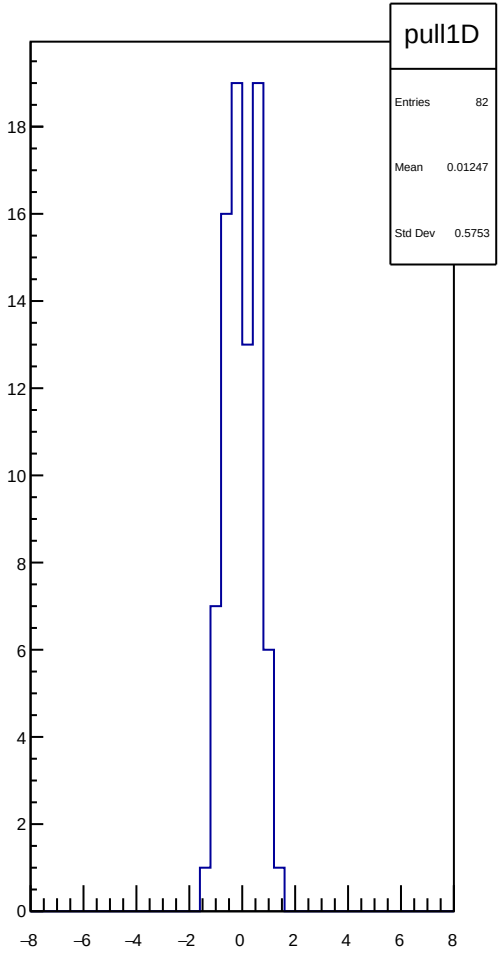

pull1D
Entries 82
Mean −0.008927
Std Dev 0.3305

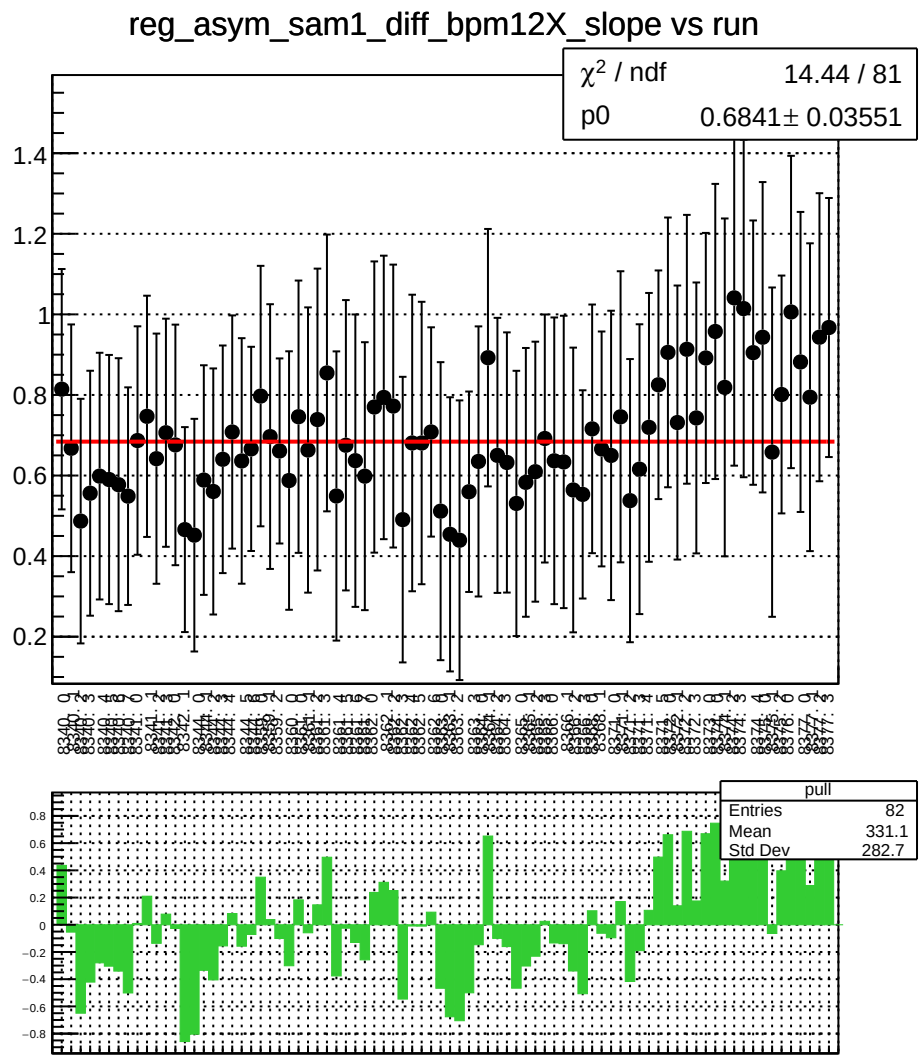

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 23.74 / 81
p0 −43.41 ± 0.5734
−35
−40
−45
−50
−55
pull
Entries 82
Mean 16.62
Std Dev 22.11
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean −0.01194
Std Dev 0.5379
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

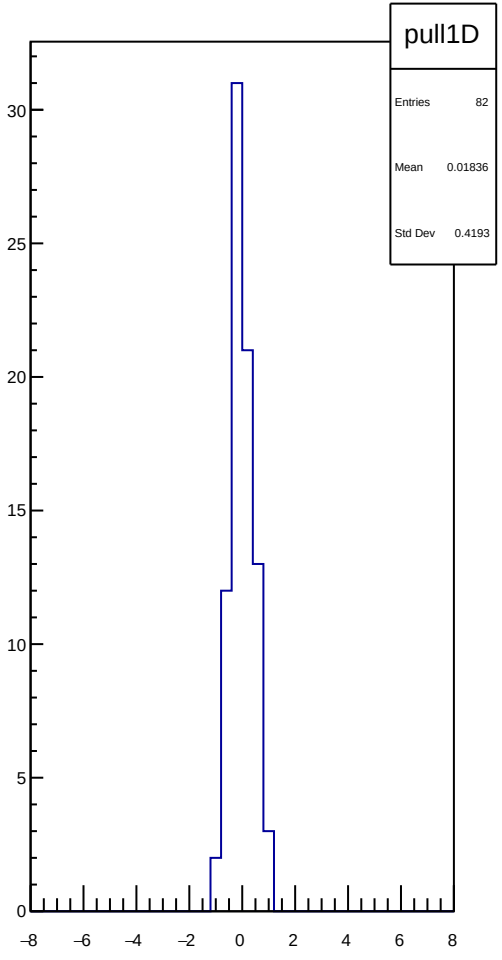

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 5.565 / 81
p0 −6.935 ± 0.3304
pull
Entries 82
Mean −1264
Std Dev 1312

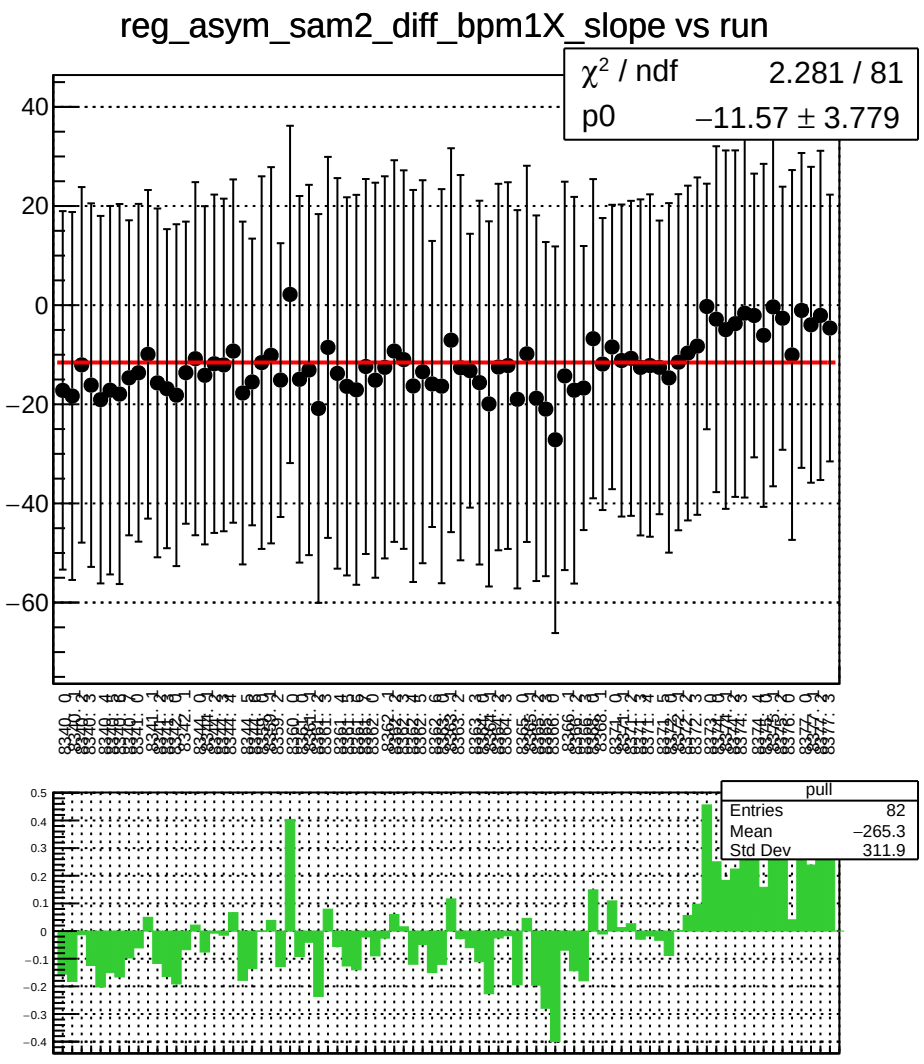

pull1D
Entries 82
Mean 0.001215
Std Dev 0.2605

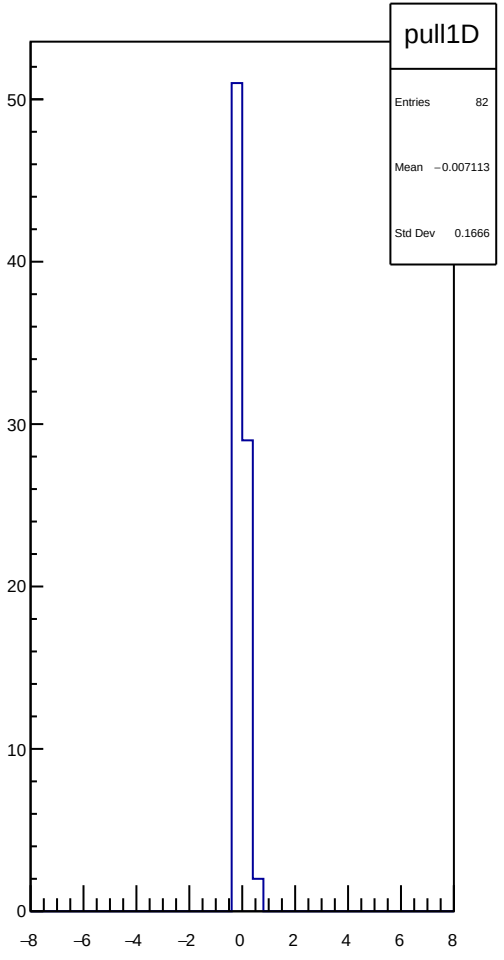

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 27.16 / 81
p0 0.5457 ± 0.5921
pull
Entries 82
Mean 7.089
Std Dev 37.57

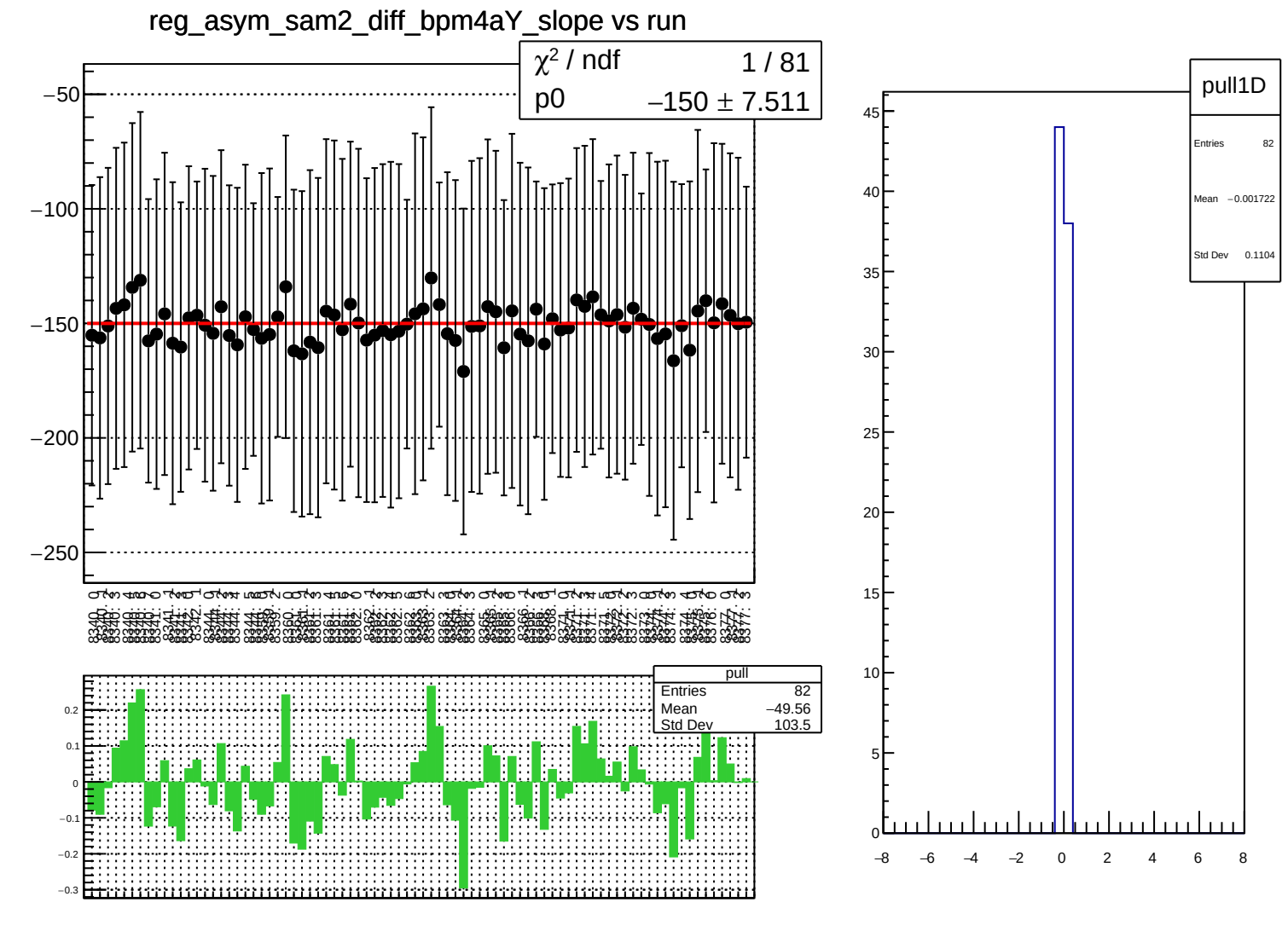

pull1D
Entries 82
Mean 0.01247
Std Dev 0.5753

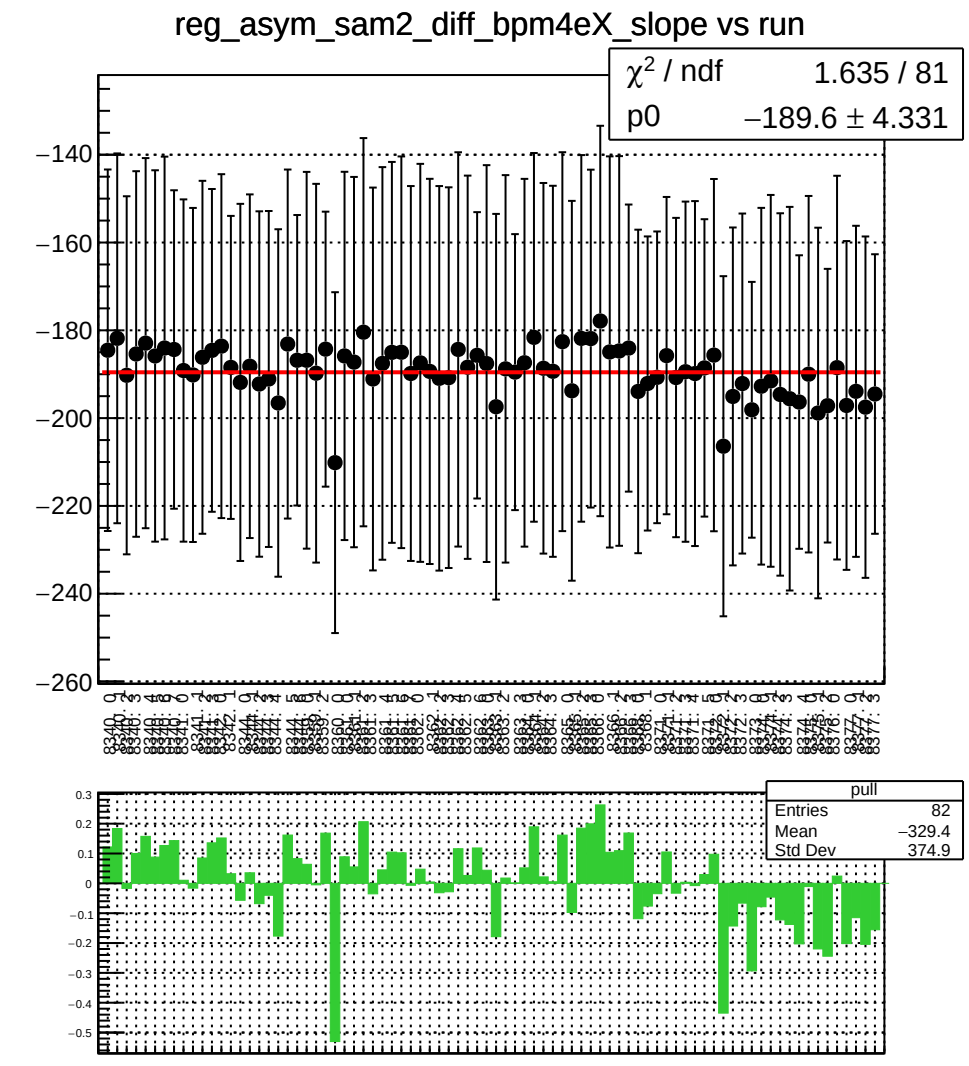

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 14.44 / 81
p0 0.6841± 0.03551
pull
Entries 82
Mean 331.1
Std Dev 282.7

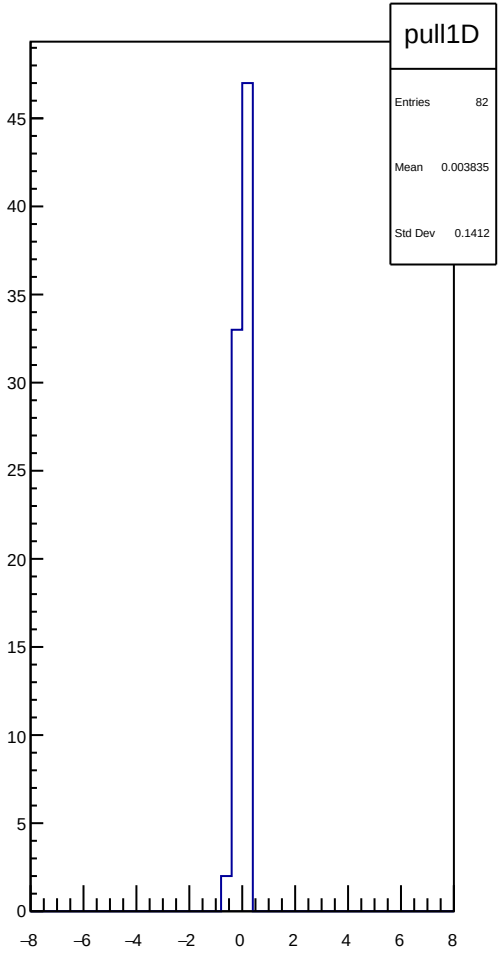

pull1D
Entries 82
Mean 0.01836
Std Dev 0.4193

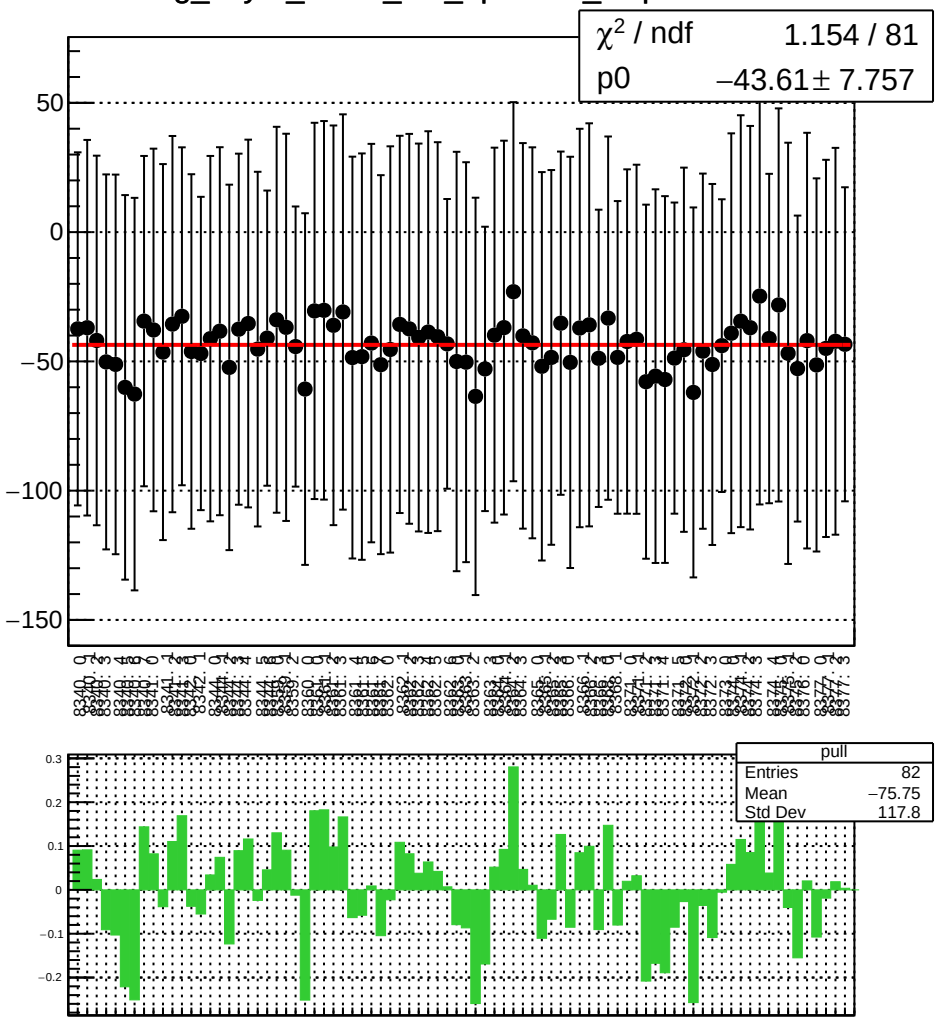

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 2.281 / 81
p0 −11.57 ± 3.779
pull
Entries 82
Mean −265.3
Std Dev 311.9

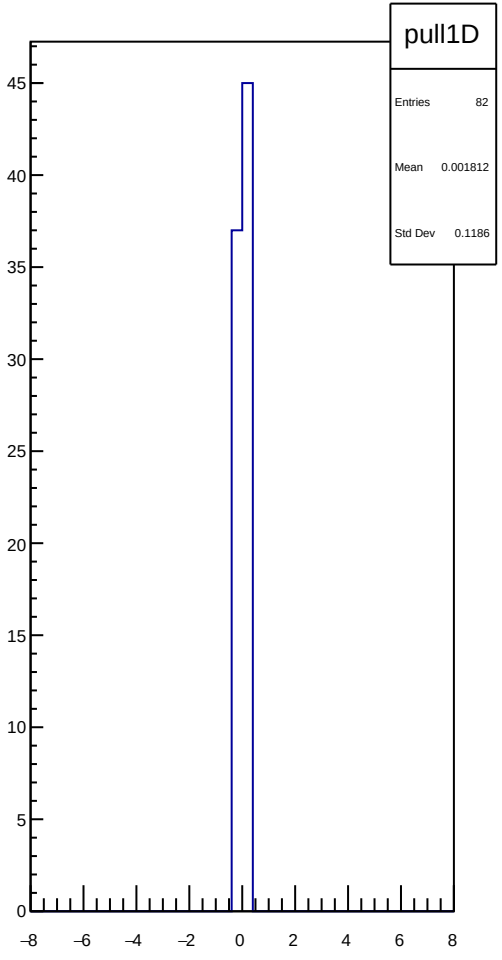

pull1D
Entries 82
Mean −0.007113
Std Dev 0.1666

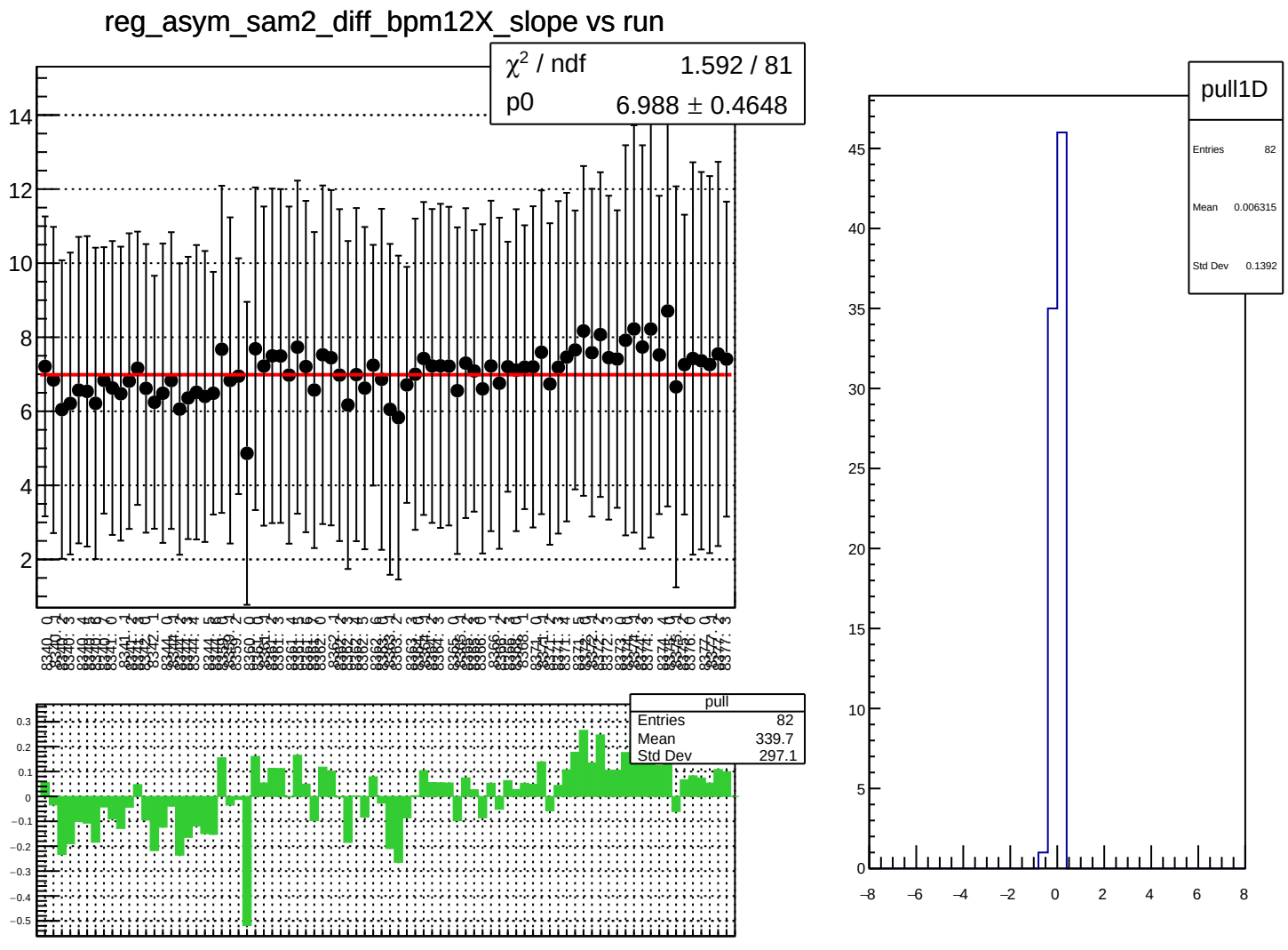

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1 / 81
p0 −150 ± 7.511
−50
−100
−150
−200
−250
pull
Entries 82
Mean −49.56
Std Dev 103.5
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 82
Mean −0.001722
Std Dev 0.1104
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

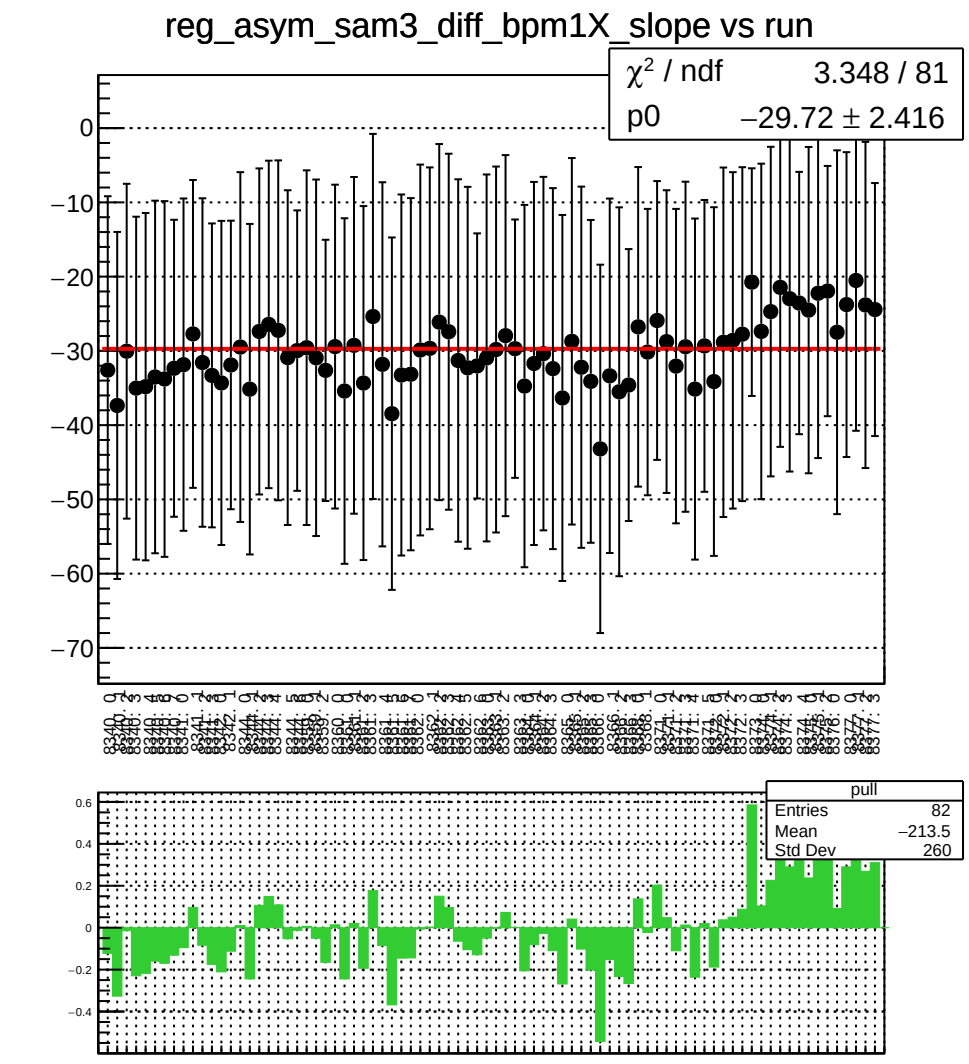

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 1.635 / 81
p0 −189.6 ± 4.331
pull
Entries 82
Mean −329.4
Std Dev 374.9

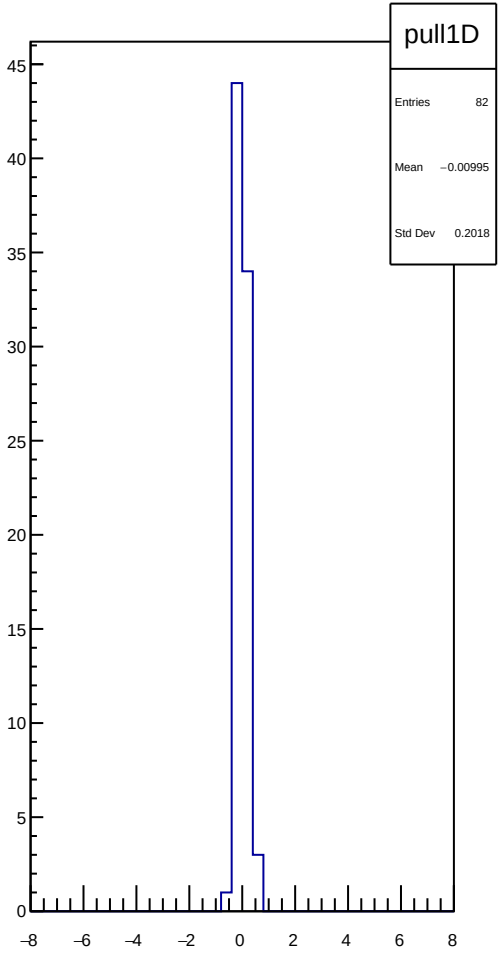

pull1D
Entries 82
Mean 0.003835
Std Dev 0.1412

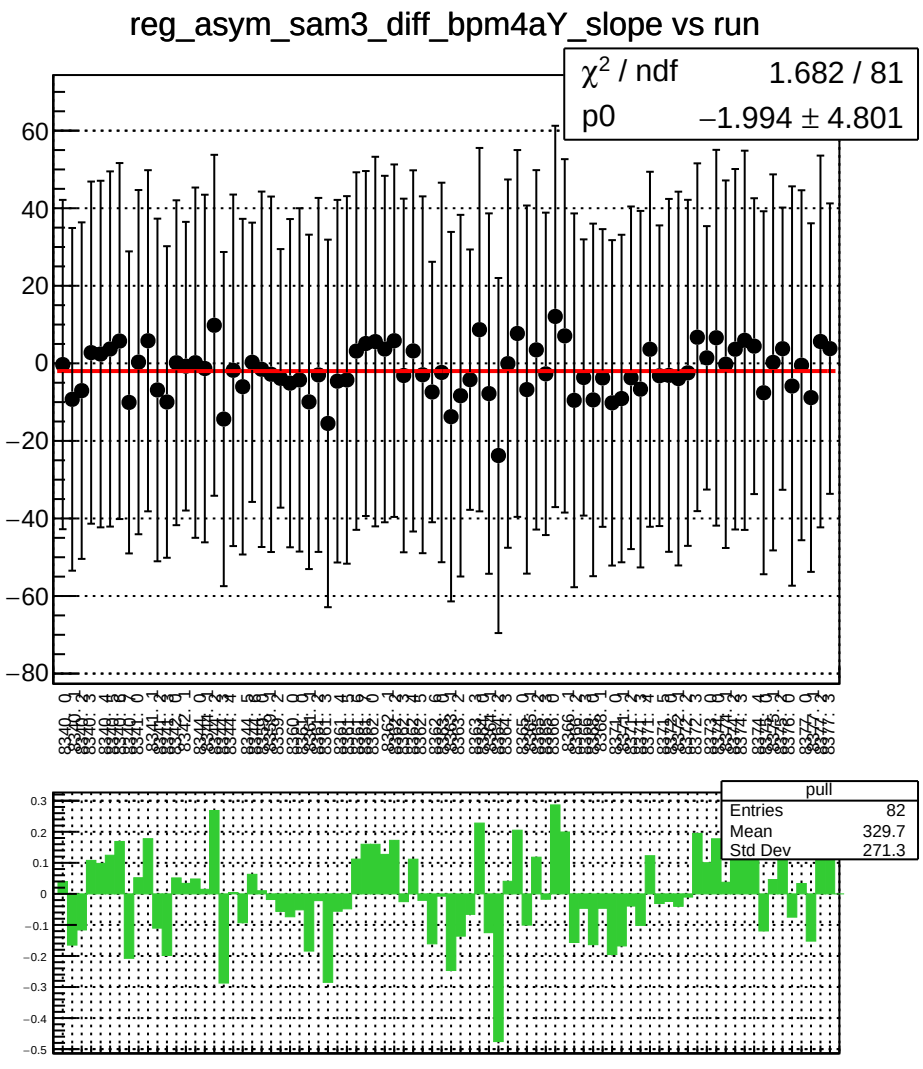

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1.154 / 81
p0 −43.61 ± 7.757
pull
Entries 82
Mean −75.75
Std Dev 117.8

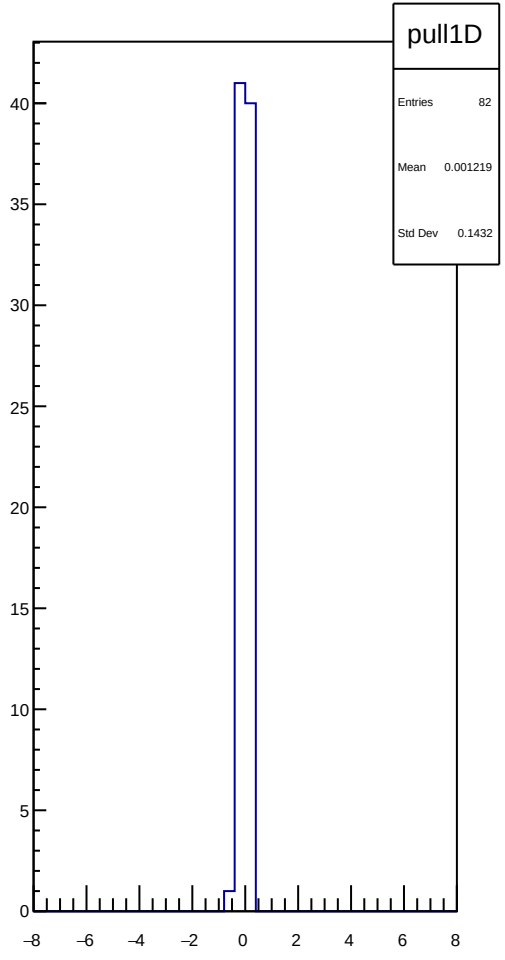

pull1D
Entries 82
Mean 0.001812
Std Dev 0.1186

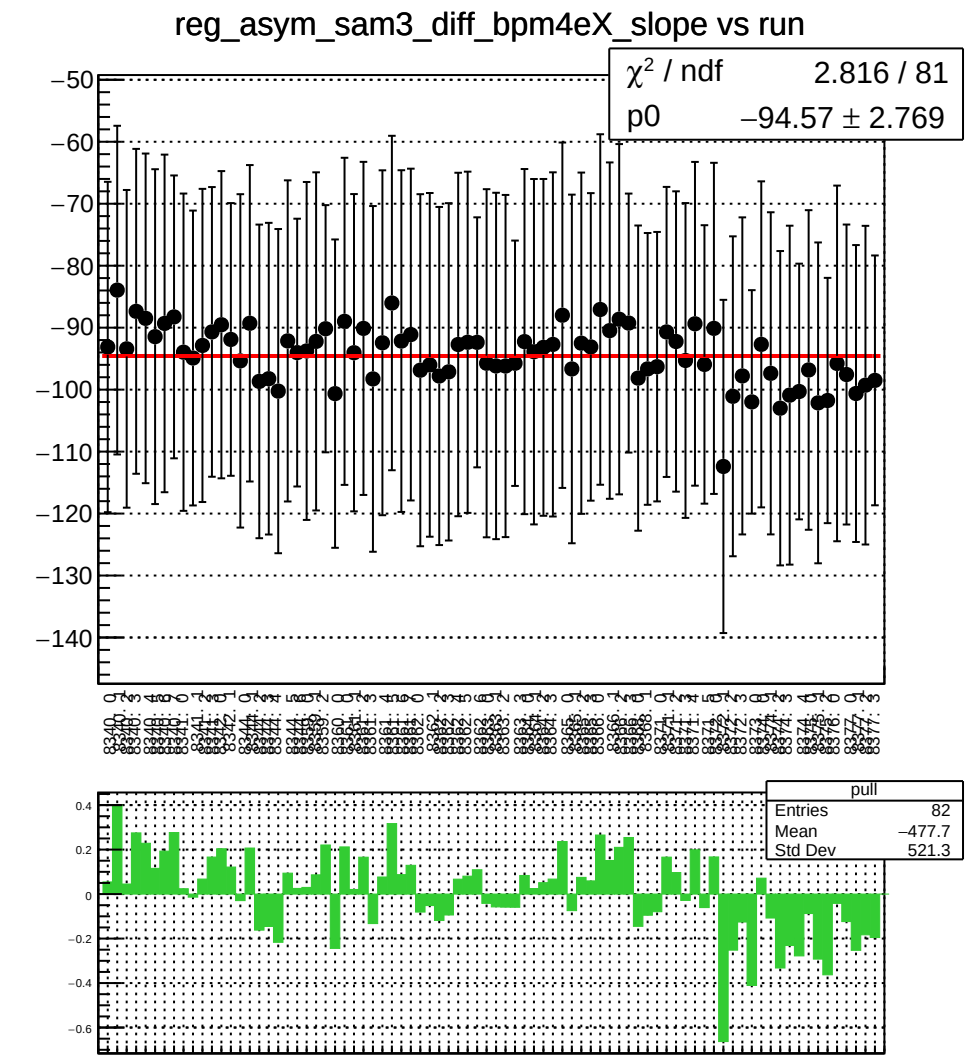

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 1.592 / 81
p0 6.988 ± 0.4648
pull
Entries 82
Mean 339.7
Std Dev 297.1
pull1D
Entries 82
Mean 0.006315
Std Dev 0.1392

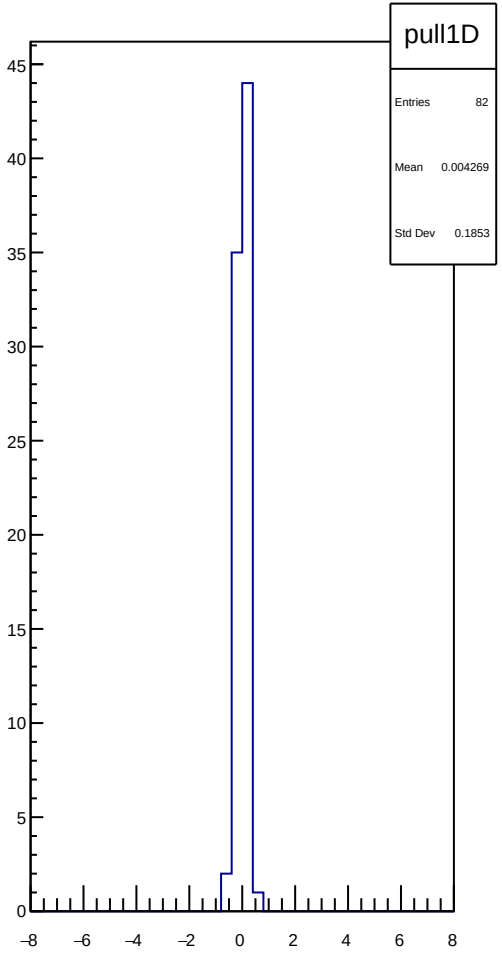

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 3.348 / 81
p0 −29.72 ± 2.416
pull
Entries 82
Mean −213.5
Std Dev 260

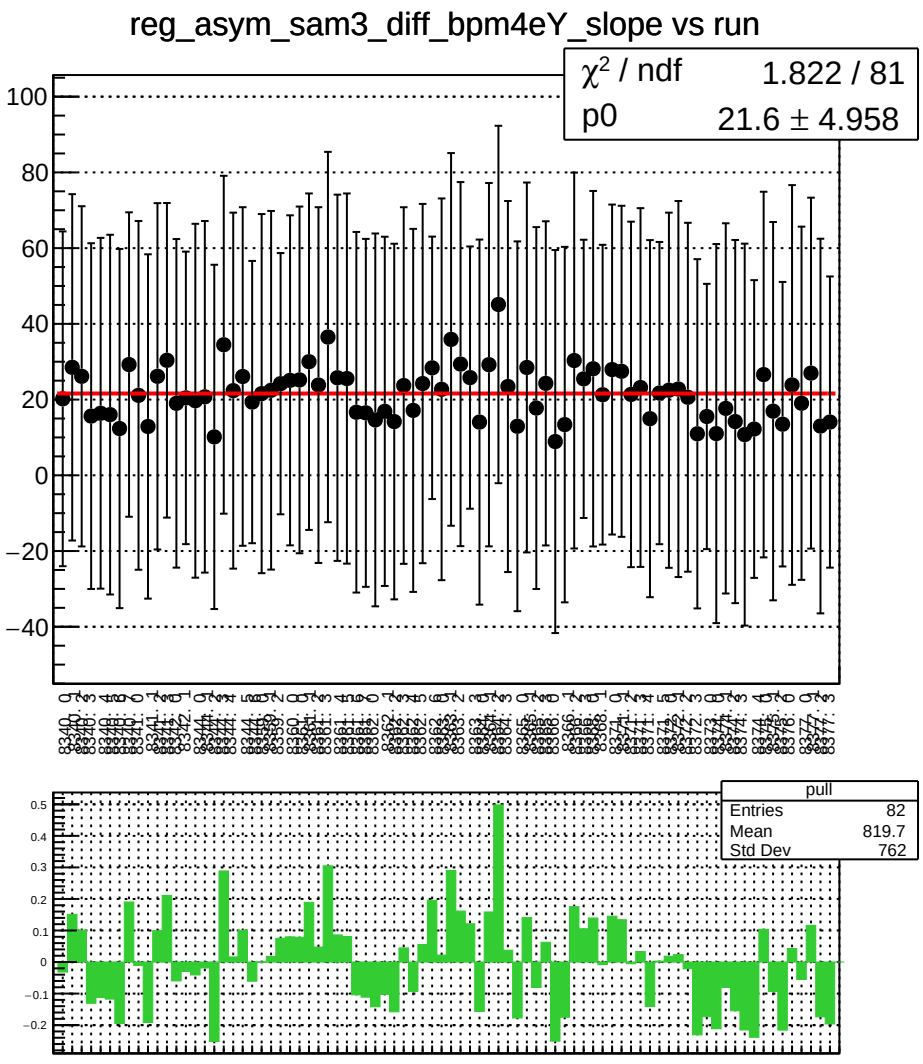

pull1D
Entries 82
Mean −0.00995
Std Dev 0.2018

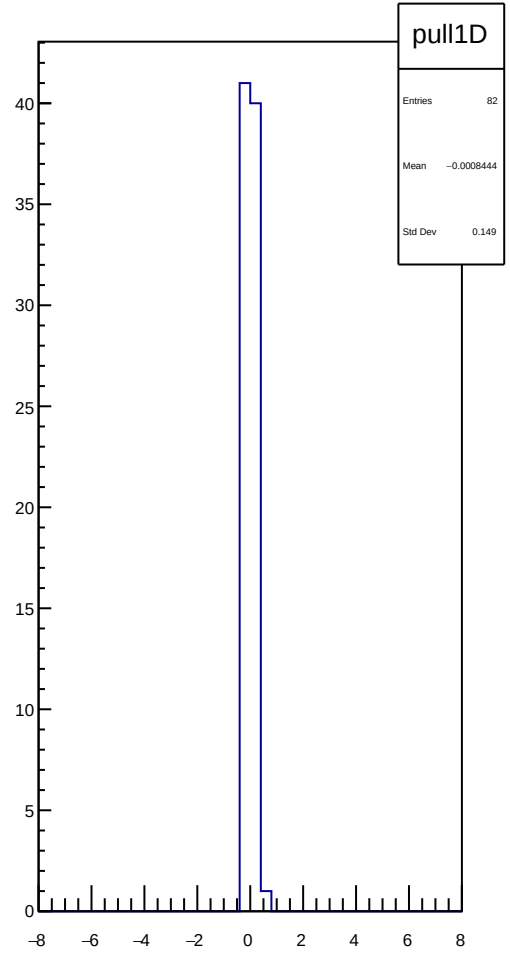

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.682 / 81
p0 −1.994 ± 4.801
pull
Entries 82
Mean 329.7
Std Dev 271.3

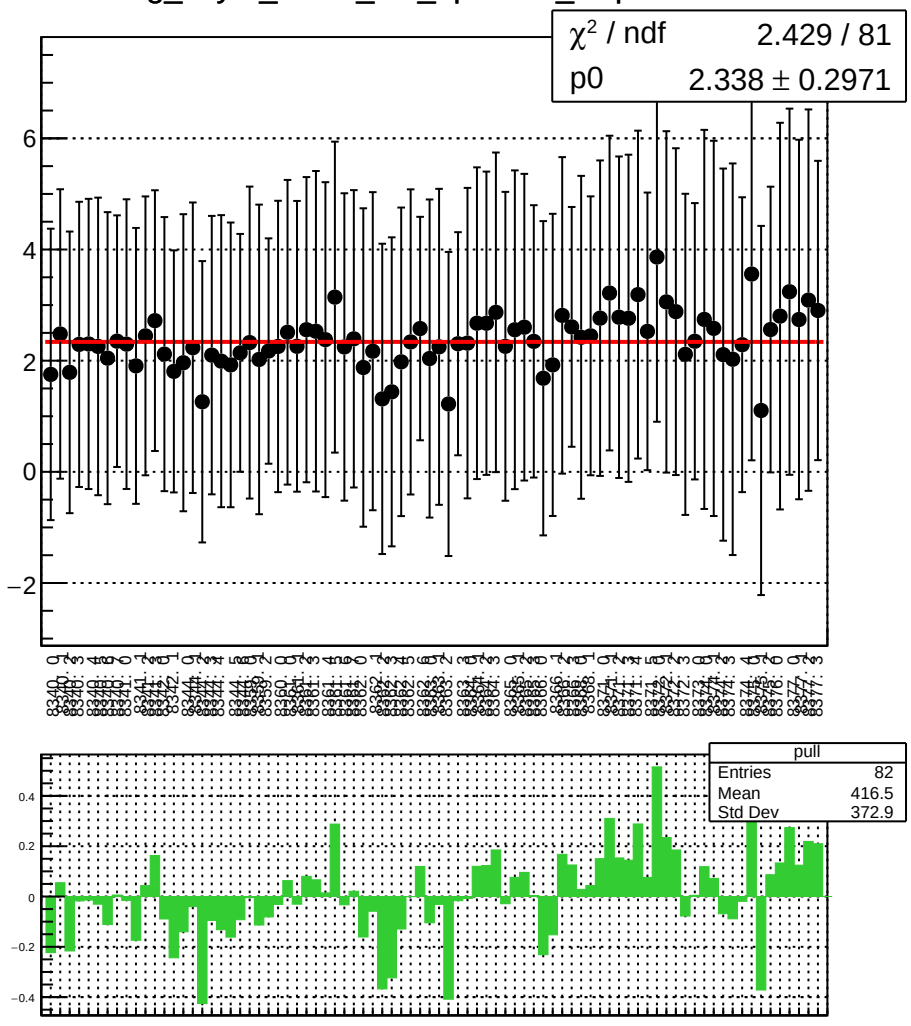

pull1D
Entries 82
Mean 0.001219
Std Dev 0.1432

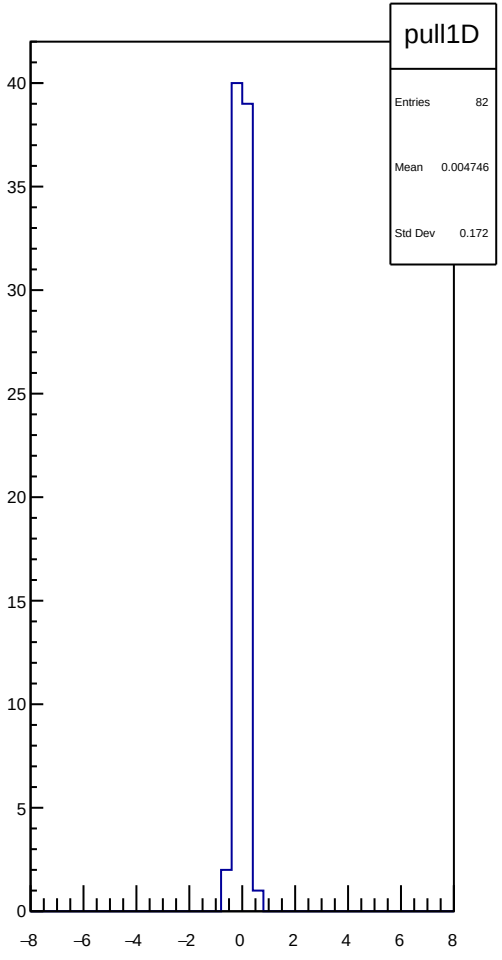

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 2.816 / 81
p0 −94.57 ± 2.769
pull
Entries 82
Mean −477.7
Std Dev 521.3

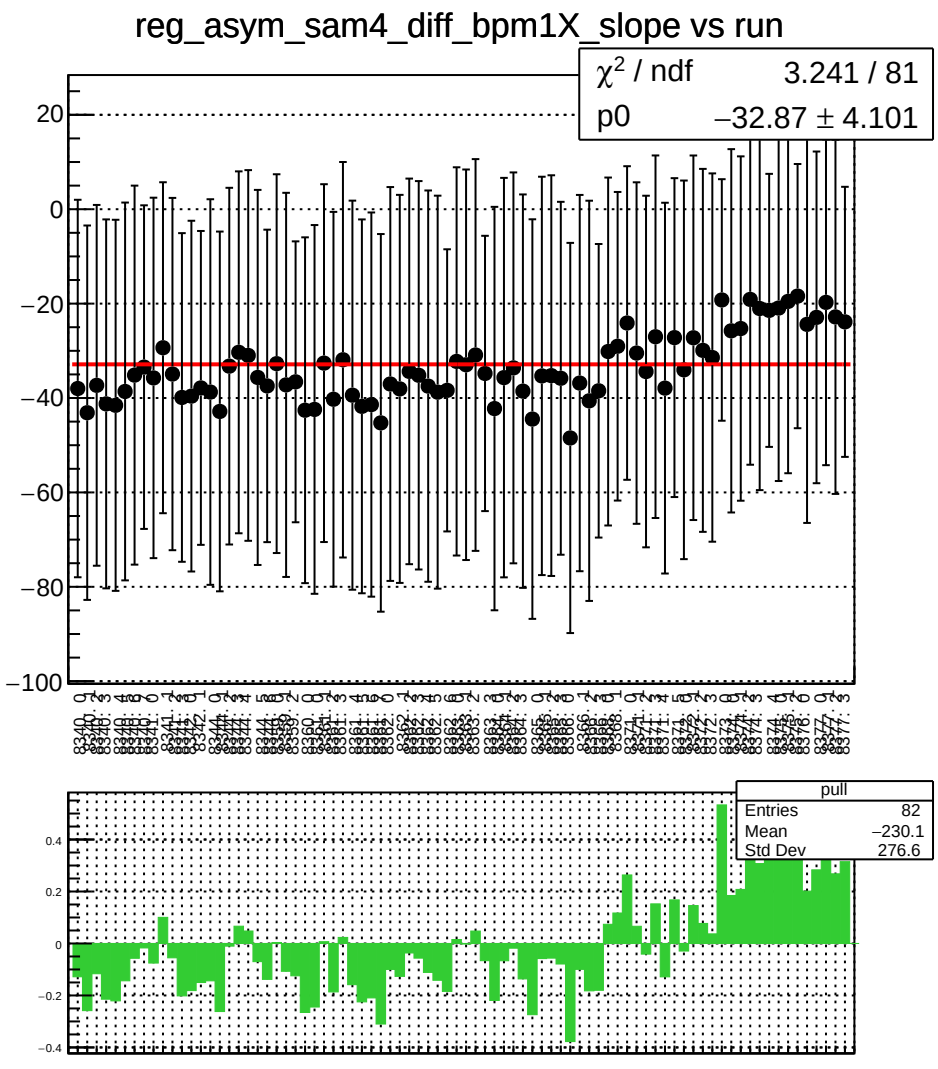

pull1D
Entries 82
Mean 0.004269
Std Dev 0.1853

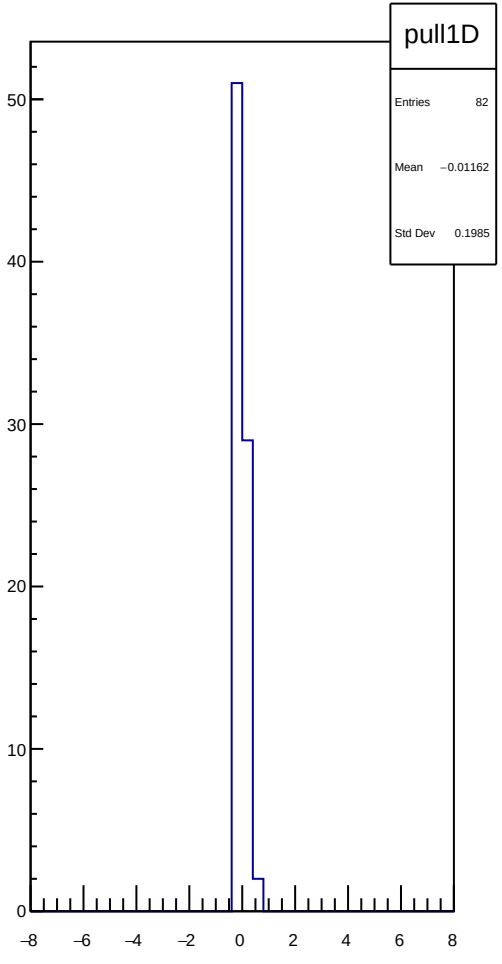

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.822 / 81
p0 21.6 ± 4.958
pull
Entries 82
Mean 819.7
Std Dev 762

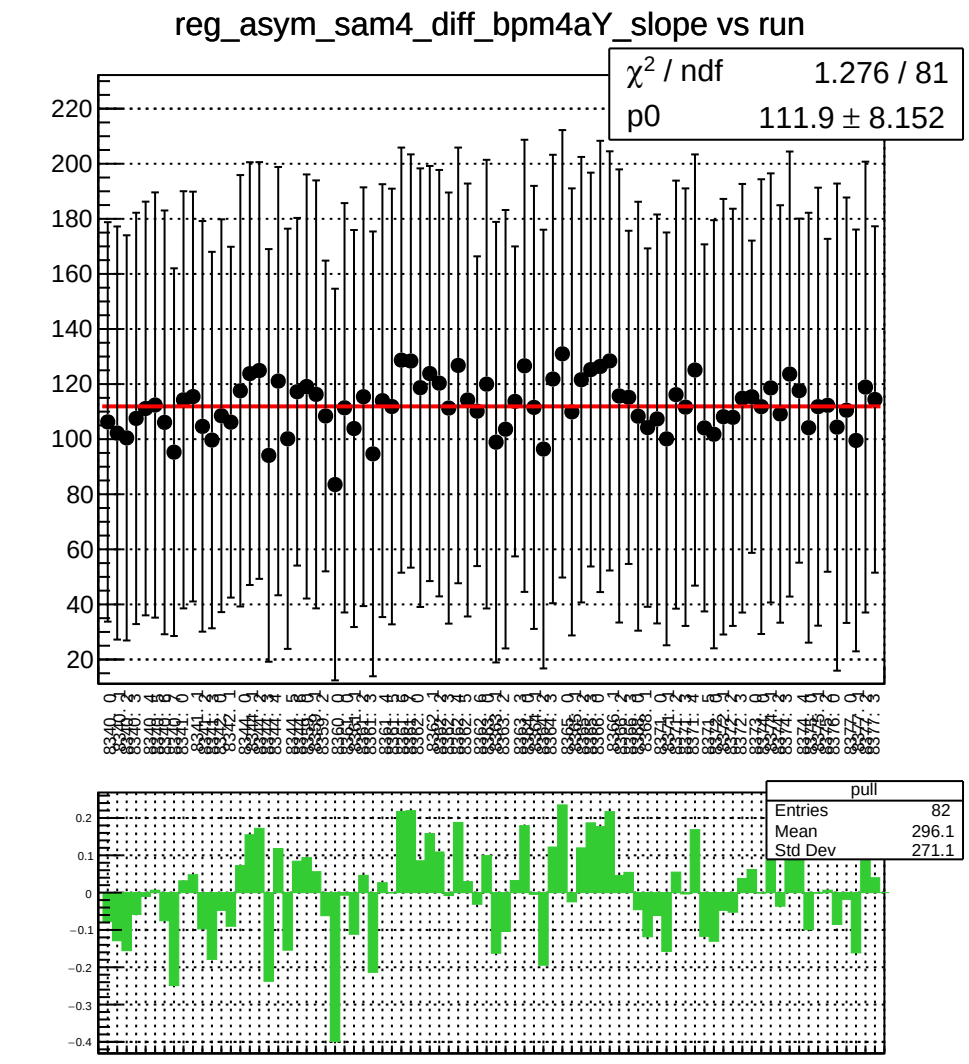

pull1D
Entries 82
Mean −0.0008444
Std Dev 0.149

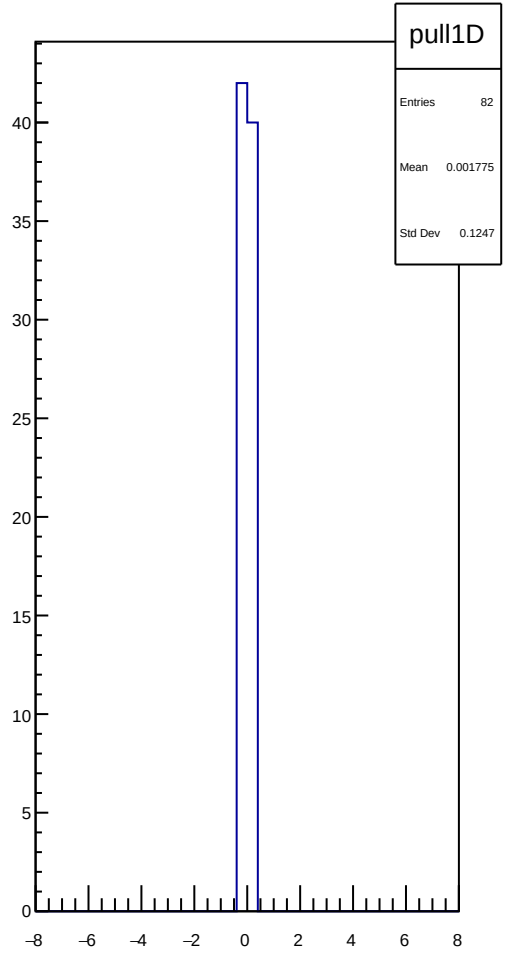

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 2.429 / 81
p0 2.338 ± 0.2971
pull
Entries 82
Mean 416.5
Std Dev 372.9

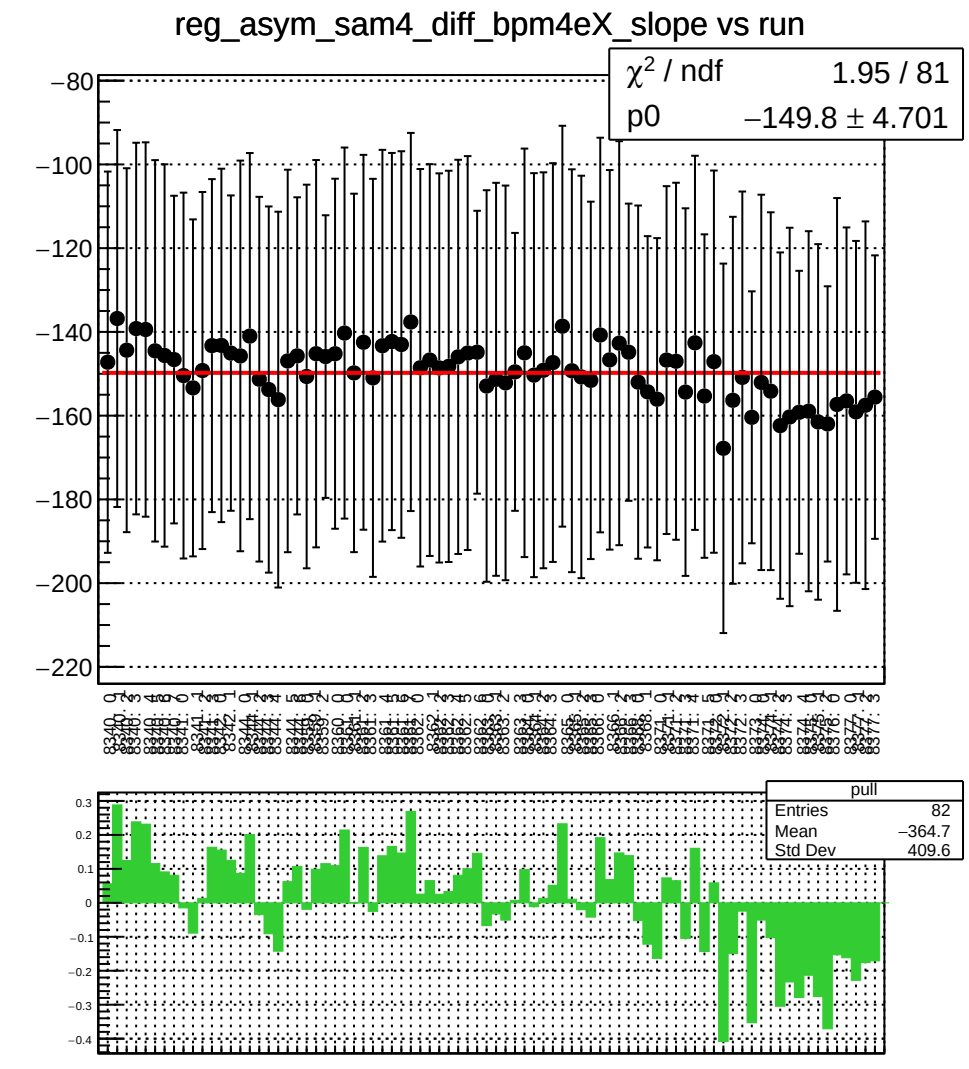

pull1D
Entries 82
Mean 0.004746
Std Dev 0.172

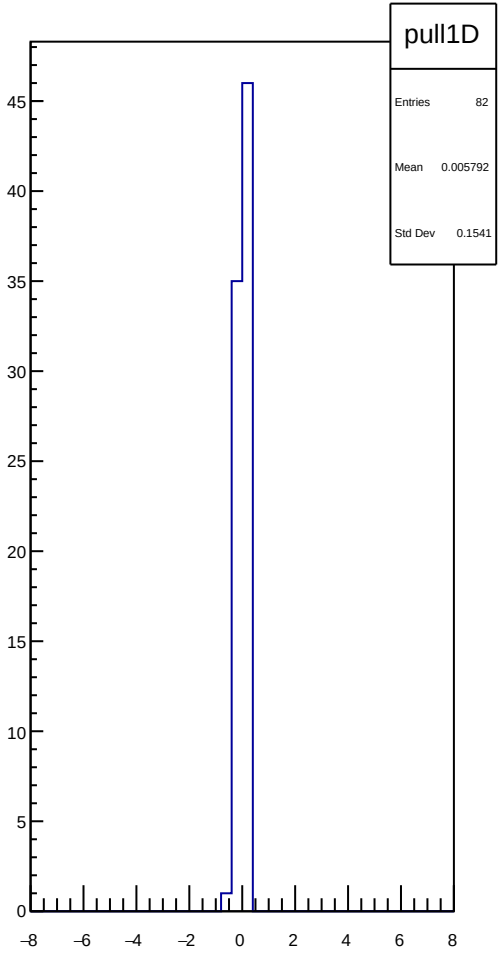

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 3.241 / 81
p0 −32.87 ± 4.101
pull
Entries 82
Mean −230.1
Std Dev 276.6

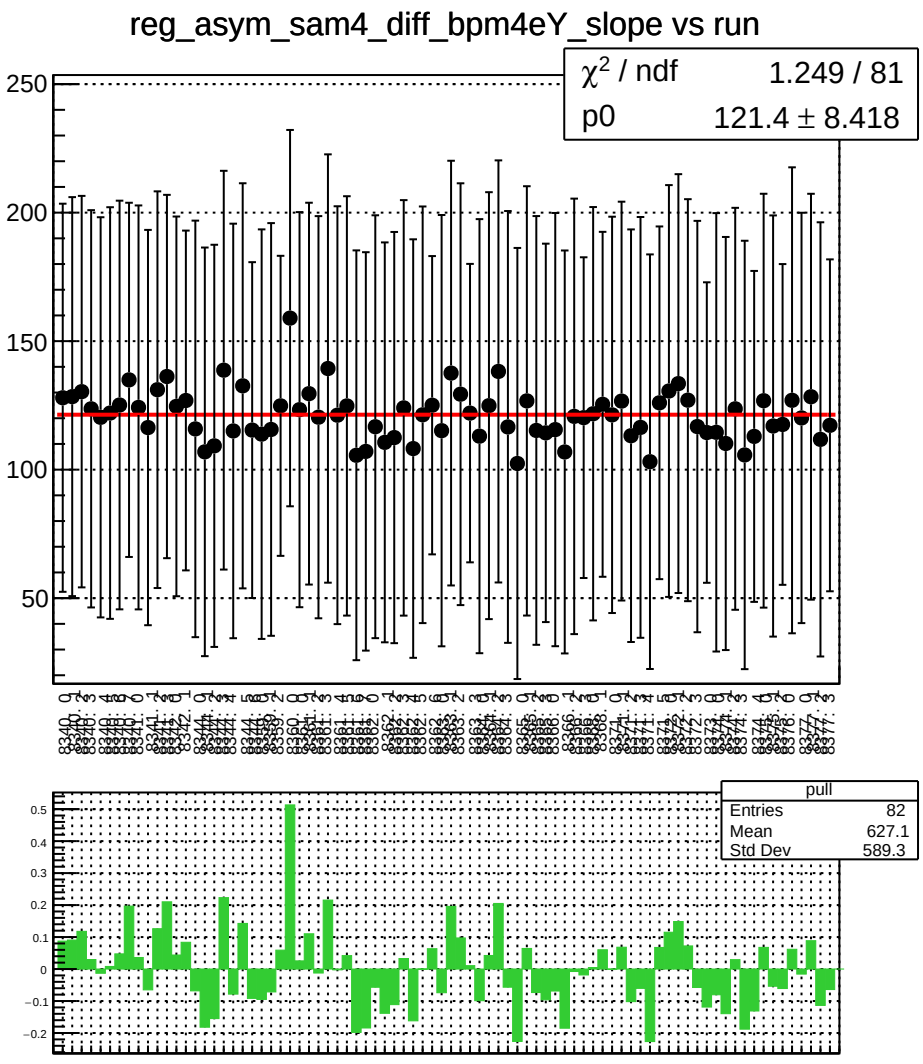

pull1D
Entries 82
Mean −0.01162
Std Dev 0.1985

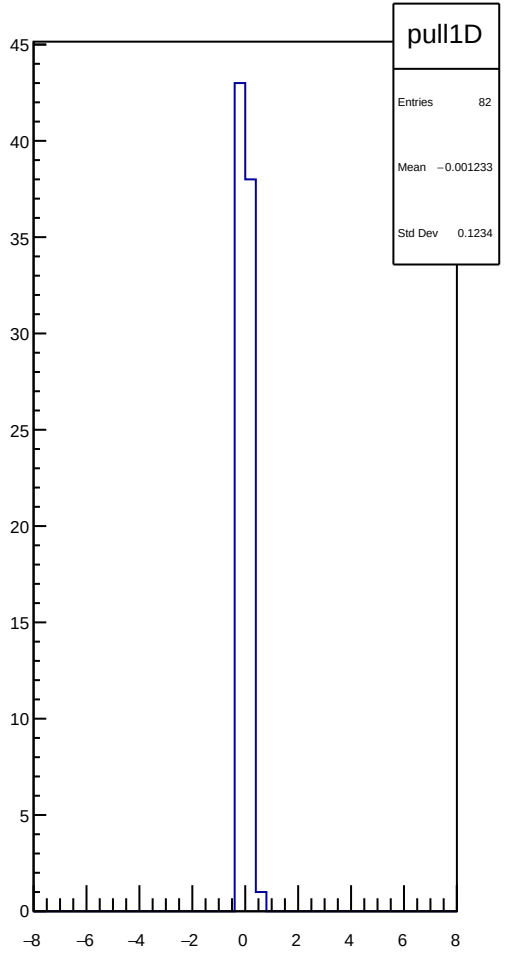

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.276 / 81
p0 111.9 ± 8.152
pull
Entries 82
Mean 296.1
Std Dev 271.1

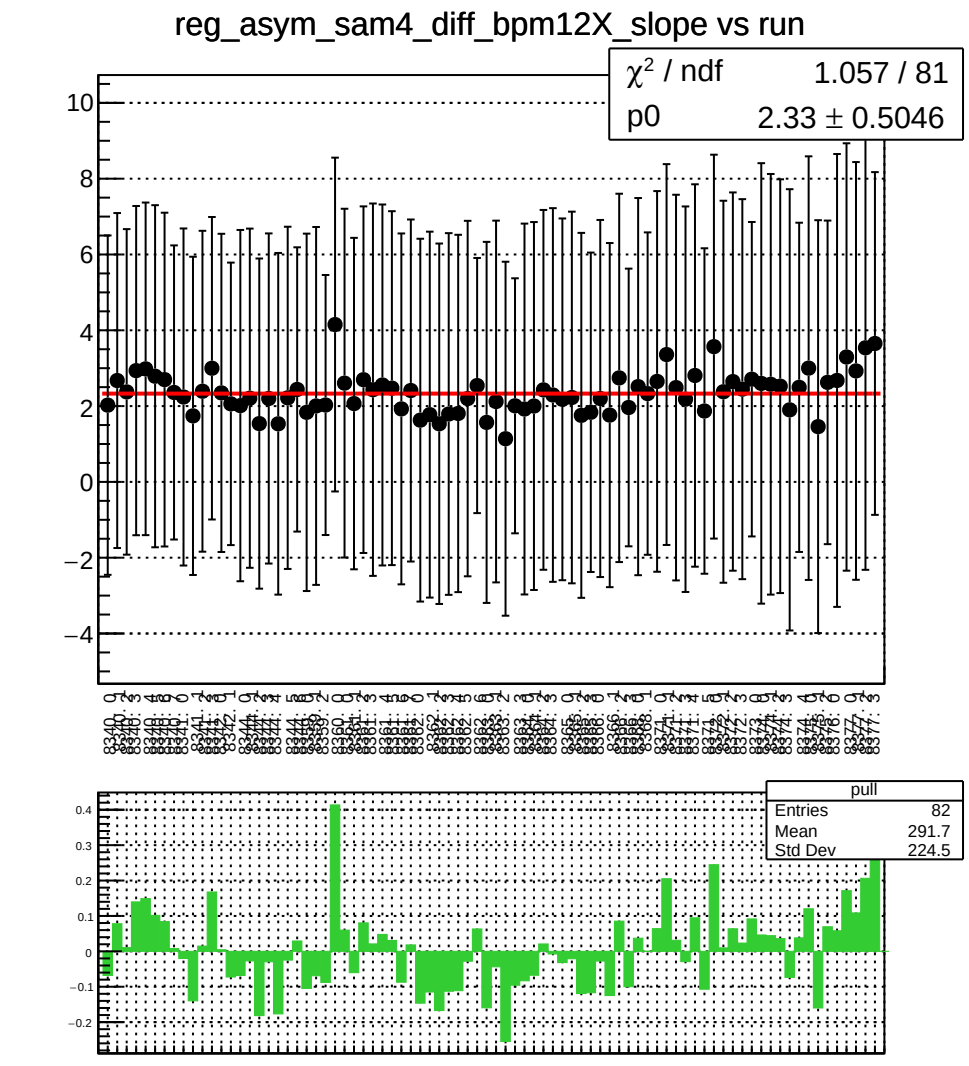

pull1D
Entries 82
Mean 0.001775
Std Dev 0.1247

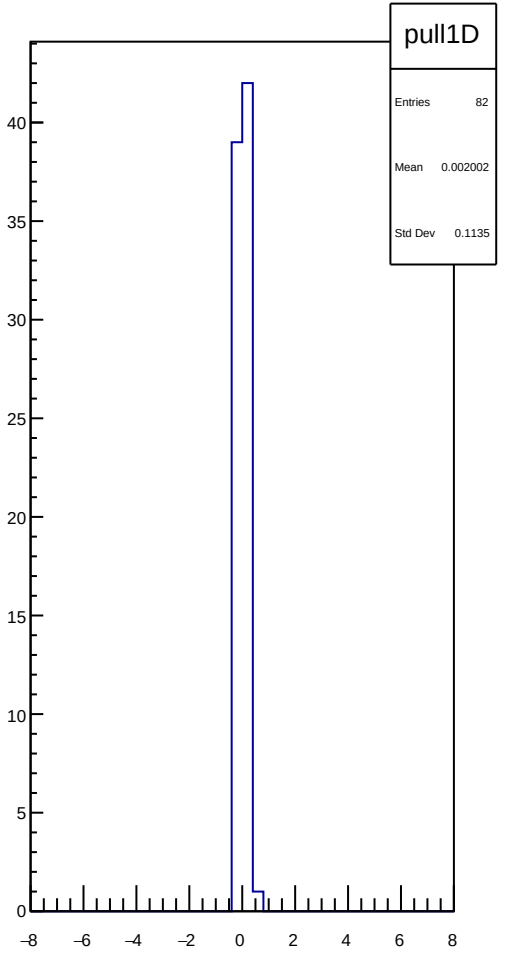

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 1.95 / 81
p0 −149.8 ± 4.701
pull
Entries 82
Mean −364.7
Std Dev 409.6

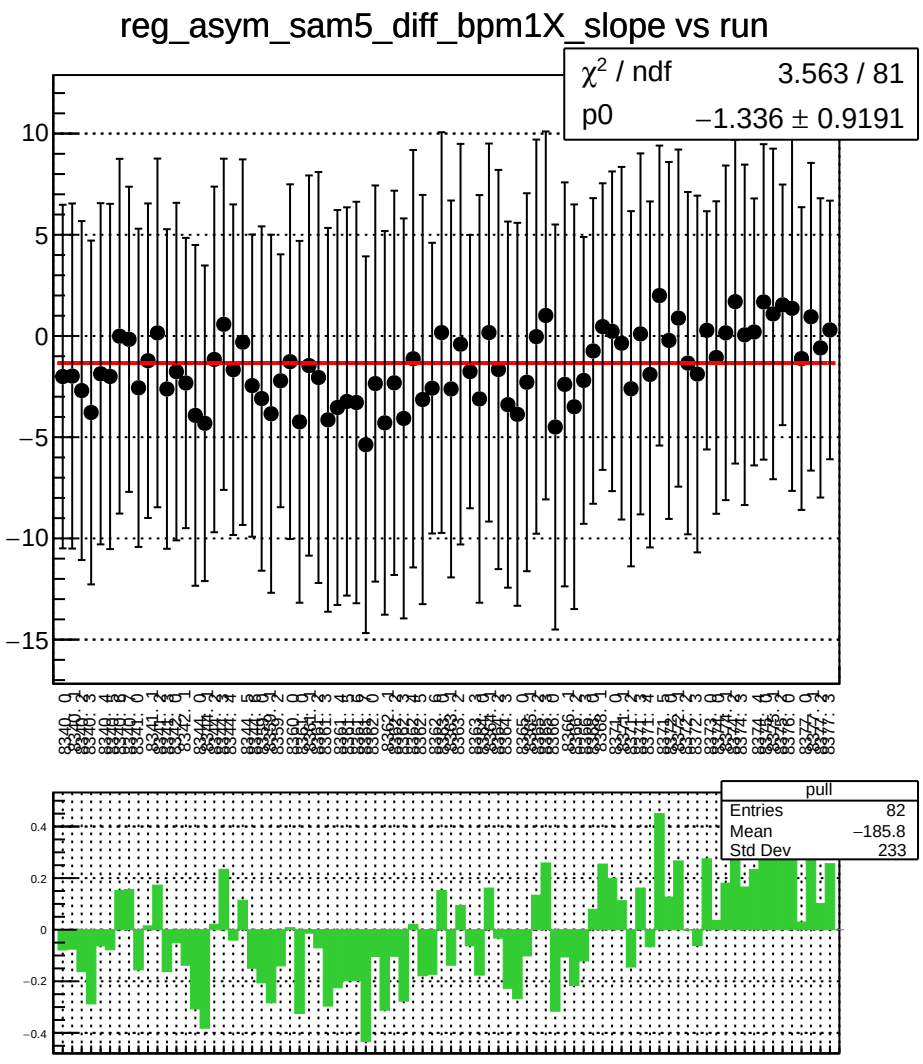

pull1D
Entries 82
Mean 0.005792
Std Dev 0.1541

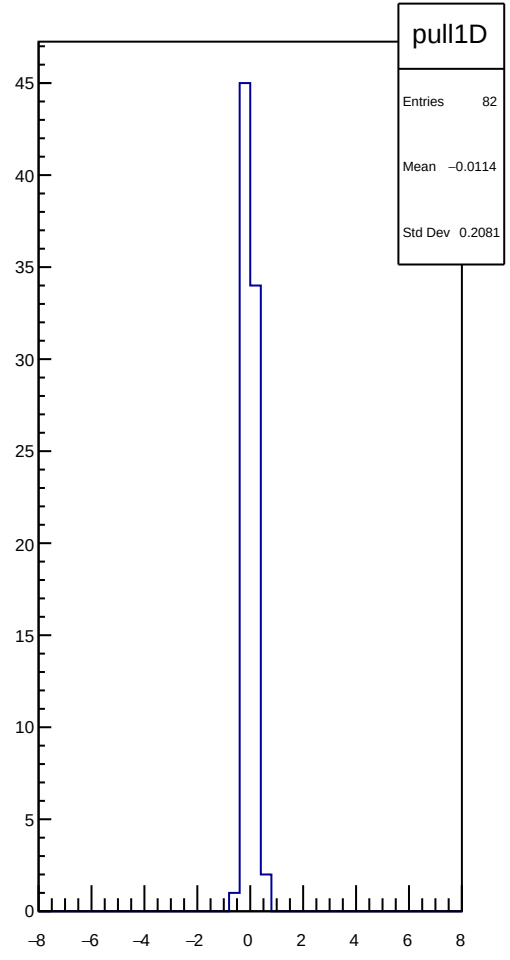

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 1.249 / 81
p0 121.4 ± 8.418
250
200
150
100
50
pull
Entries 82
Mean 627.1
Std Dev 589.3
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2

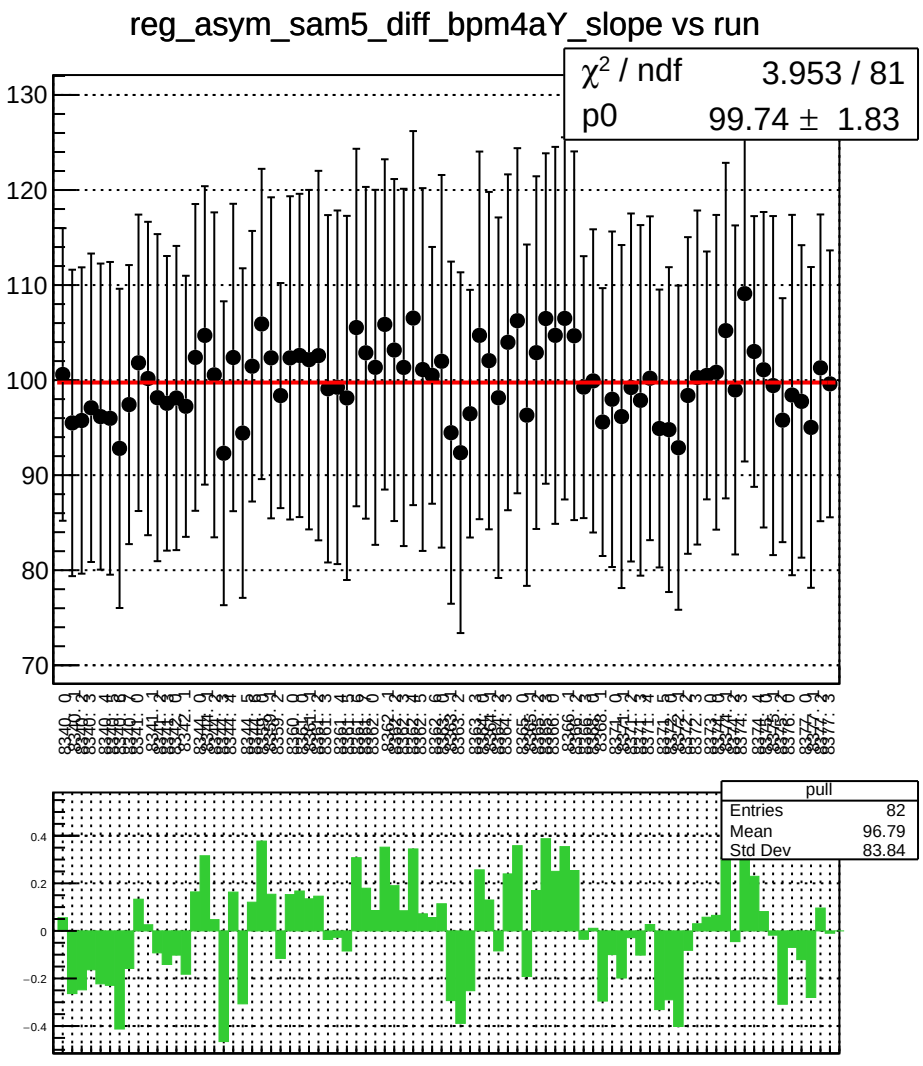

pull1D
Entries 82
Mean −0.001233
Std Dev 0.1234
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

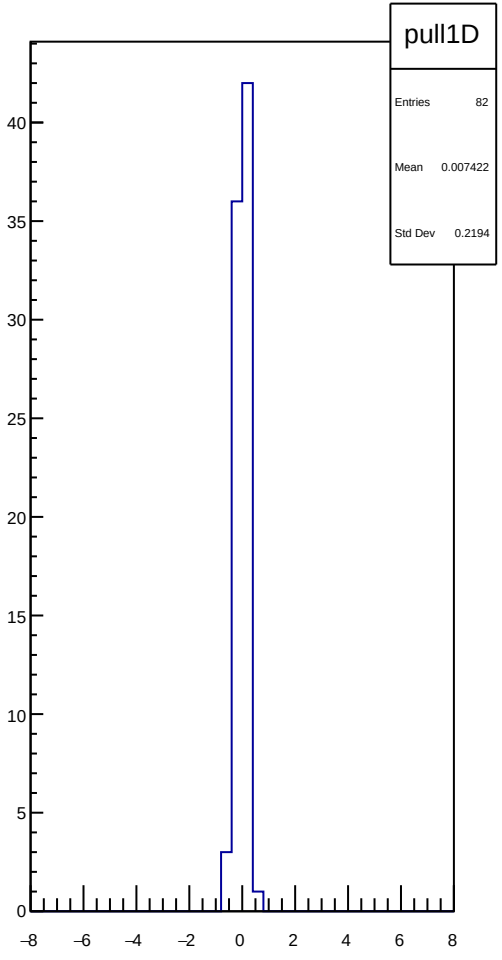

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 1.057 / 81
p0 2.33 ± 0.5046
pull
Entries 82
Mean 291.7
Std Dev 224.5

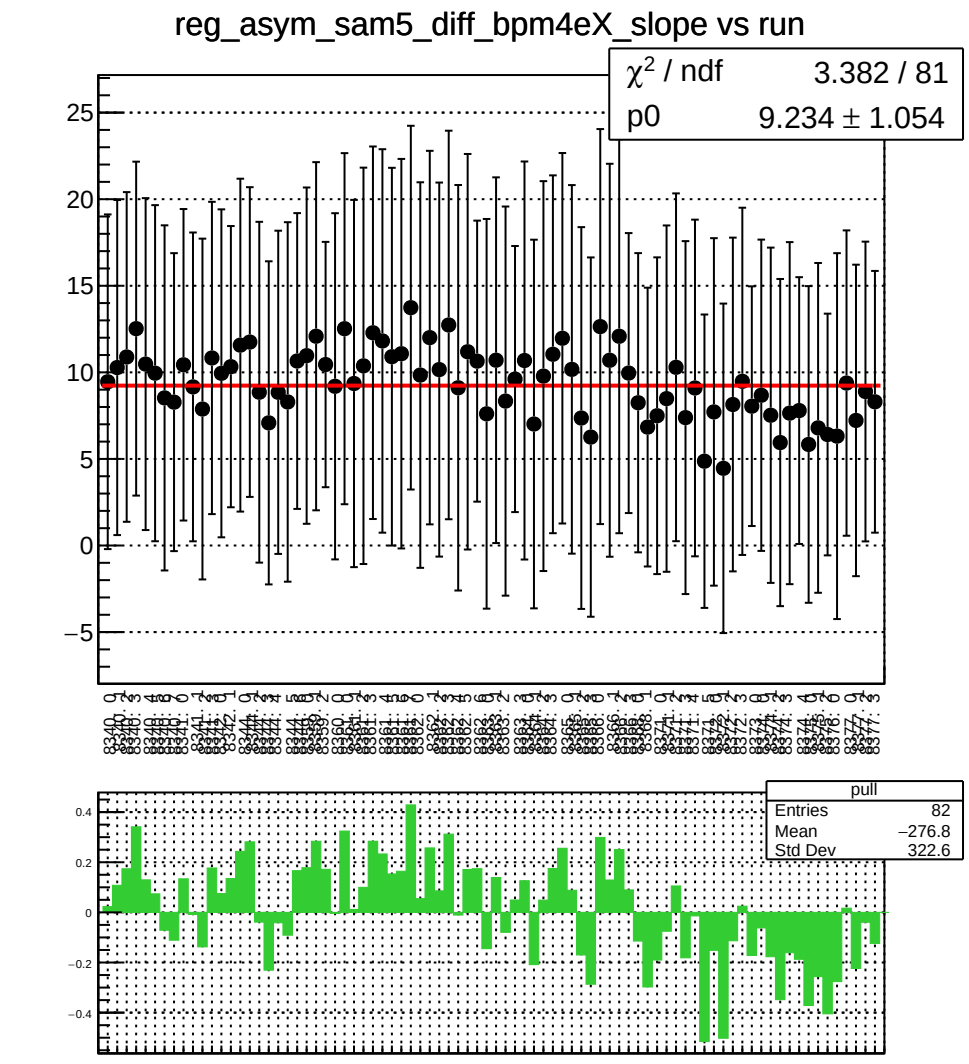

pull1D
Entries 82
Mean 0.002002
Std Dev 0.1135

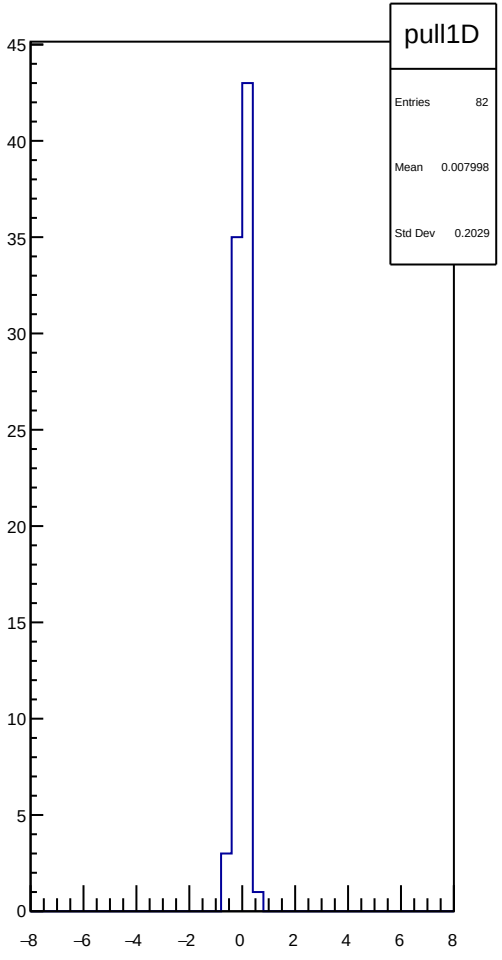

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 3.563 / 81
p0 −1.336 ± 0.9191
pull
Entries 82
Mean −185.8
Std Dev 233

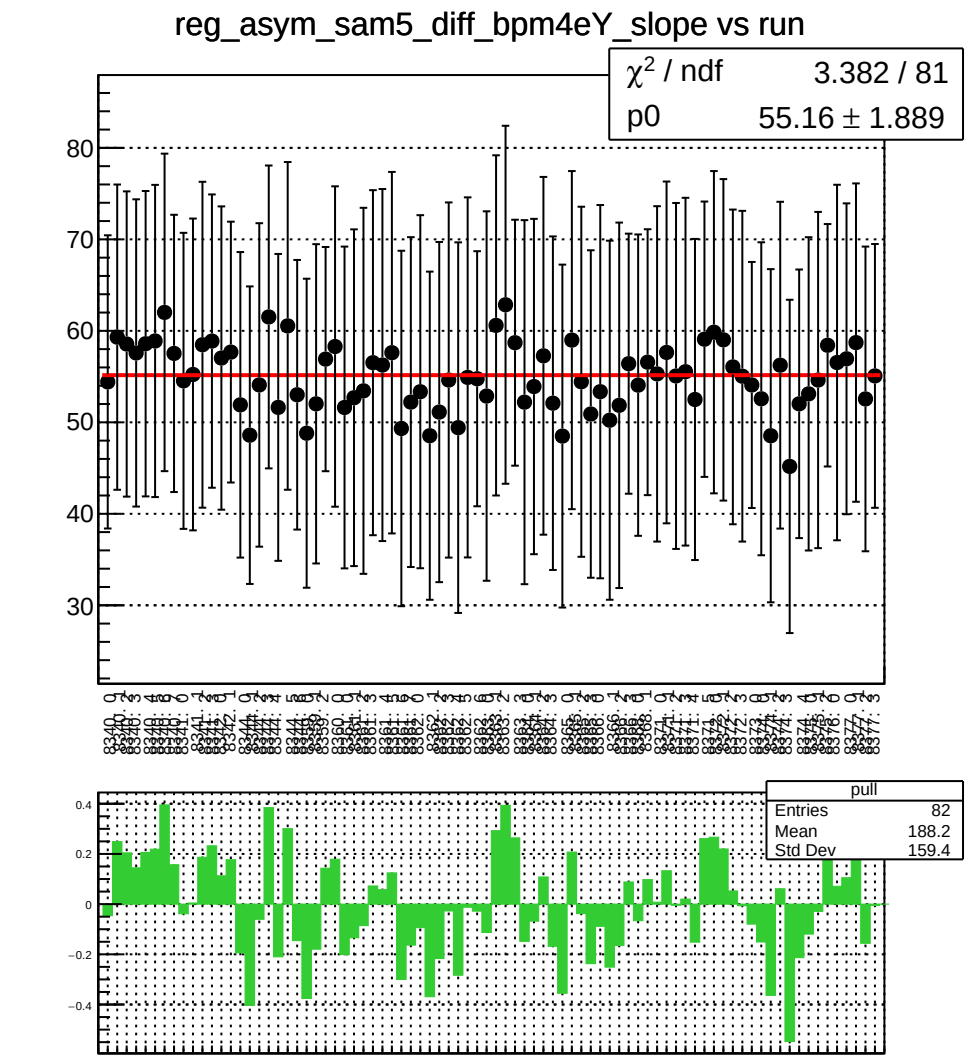

pull1D
Entries 82
Mean −0.0114
Std Dev 0.2081

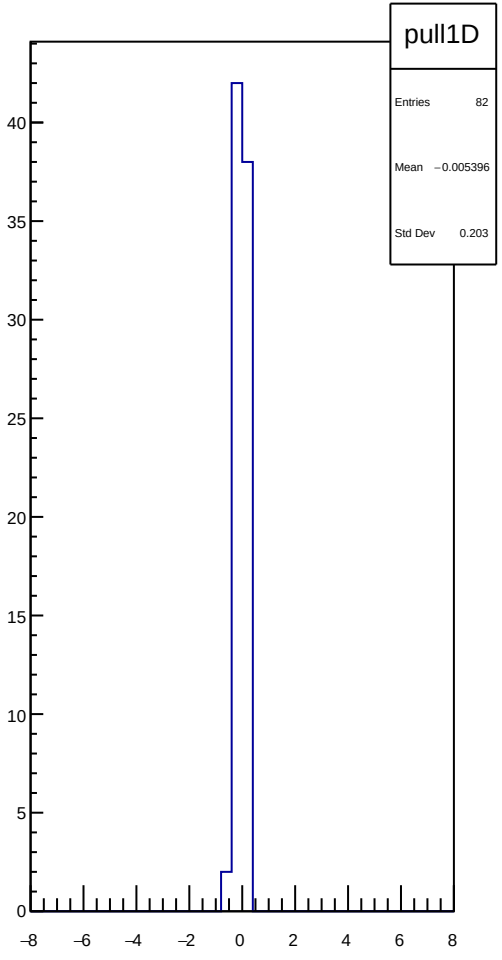

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 3.953 / 81
p0 99.74 ± 1.83
pull
Entries 82
Mean 96.79
Std Dev 83.84

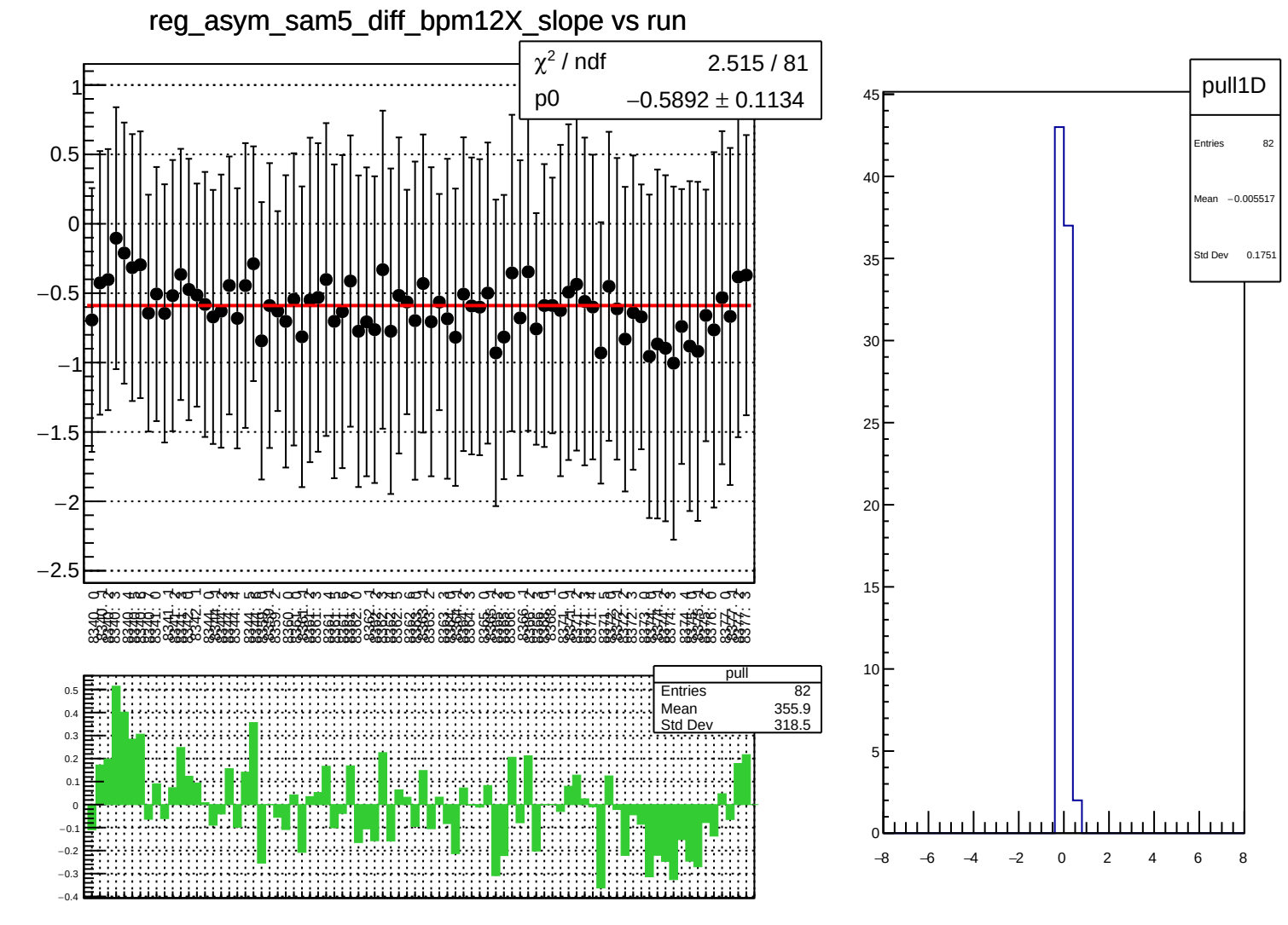

pull1D
Entries 82
Mean 0.007422
Std Dev 0.2194

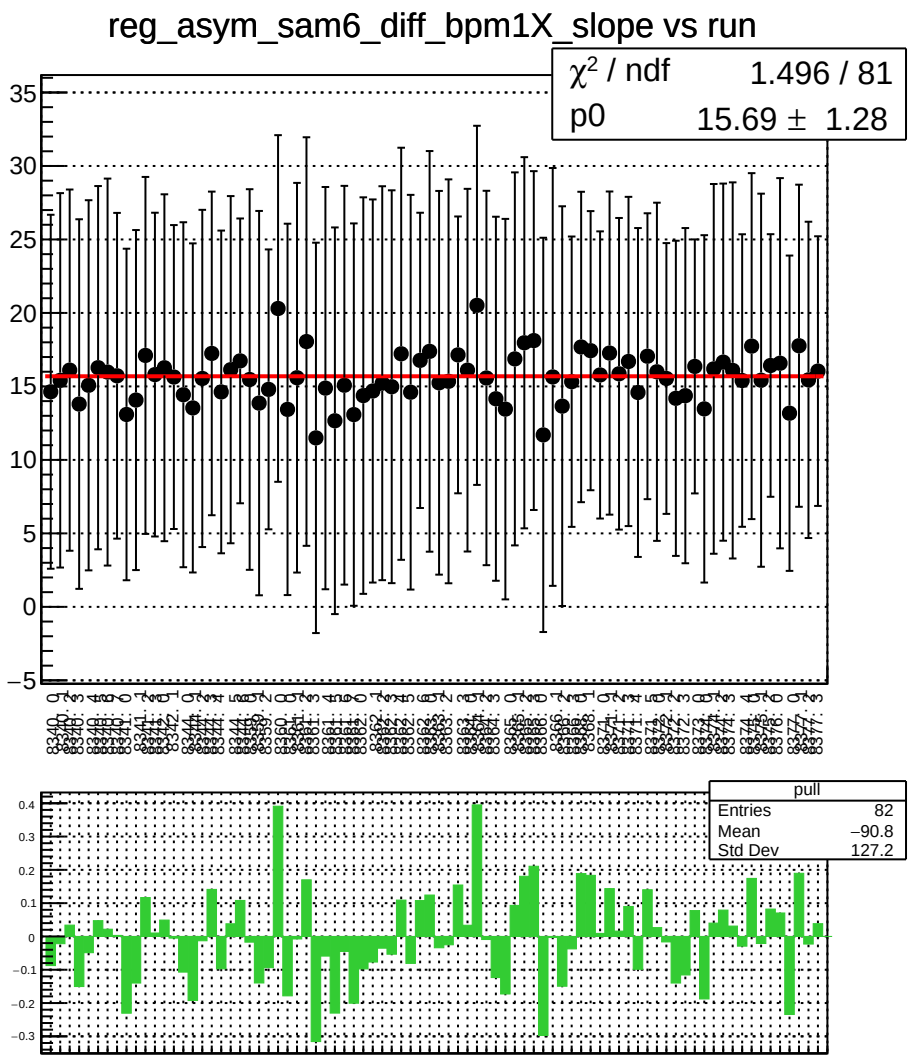

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 3.382 / 81
p0 9.234 ± 1.054
pull
Entries 82
Mean −276.8
Std Dev 322.6

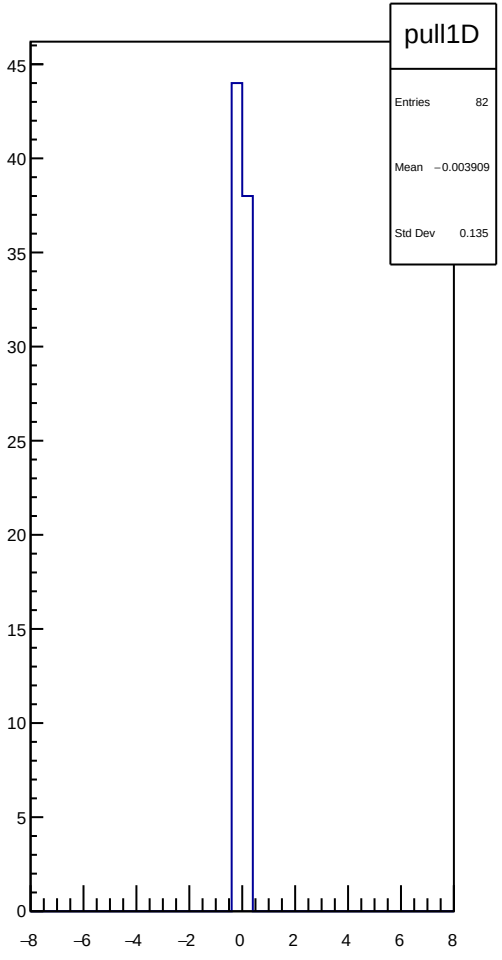

pull1D
Entries 82
Mean 0.007998
Std Dev 0.2029

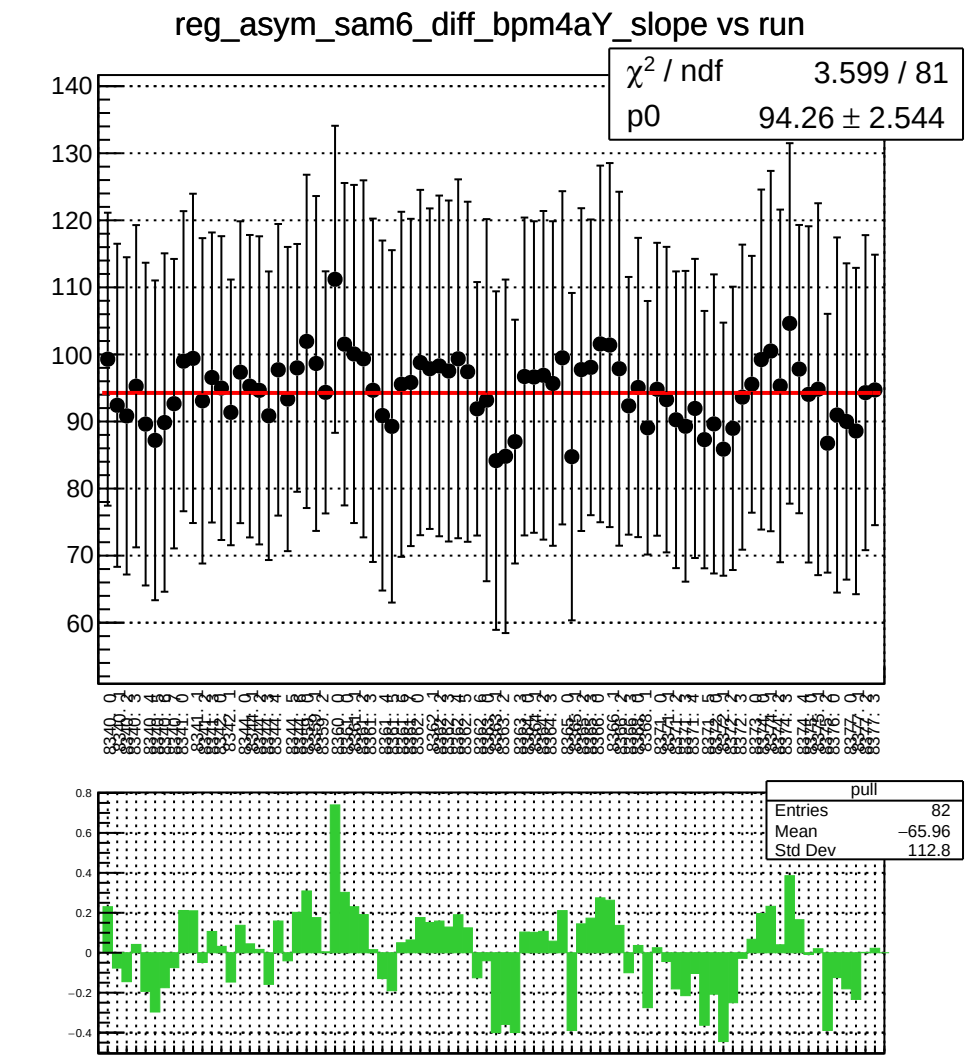

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 3.382 / 81
p0 55.16 ± 1.889
pull
Entries 82
Mean 188.2
Std Dev 159.4

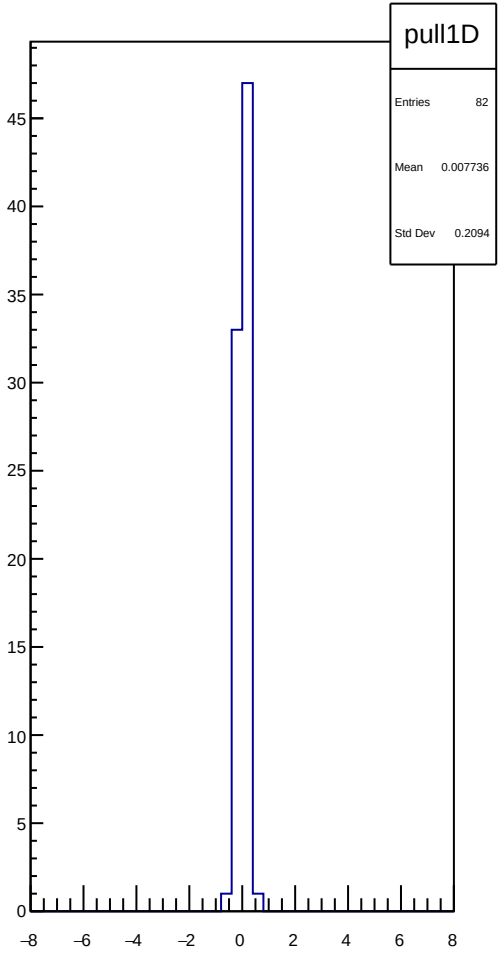

pull1D
Entries 82
Mean −0.005396
Std Dev 0.203

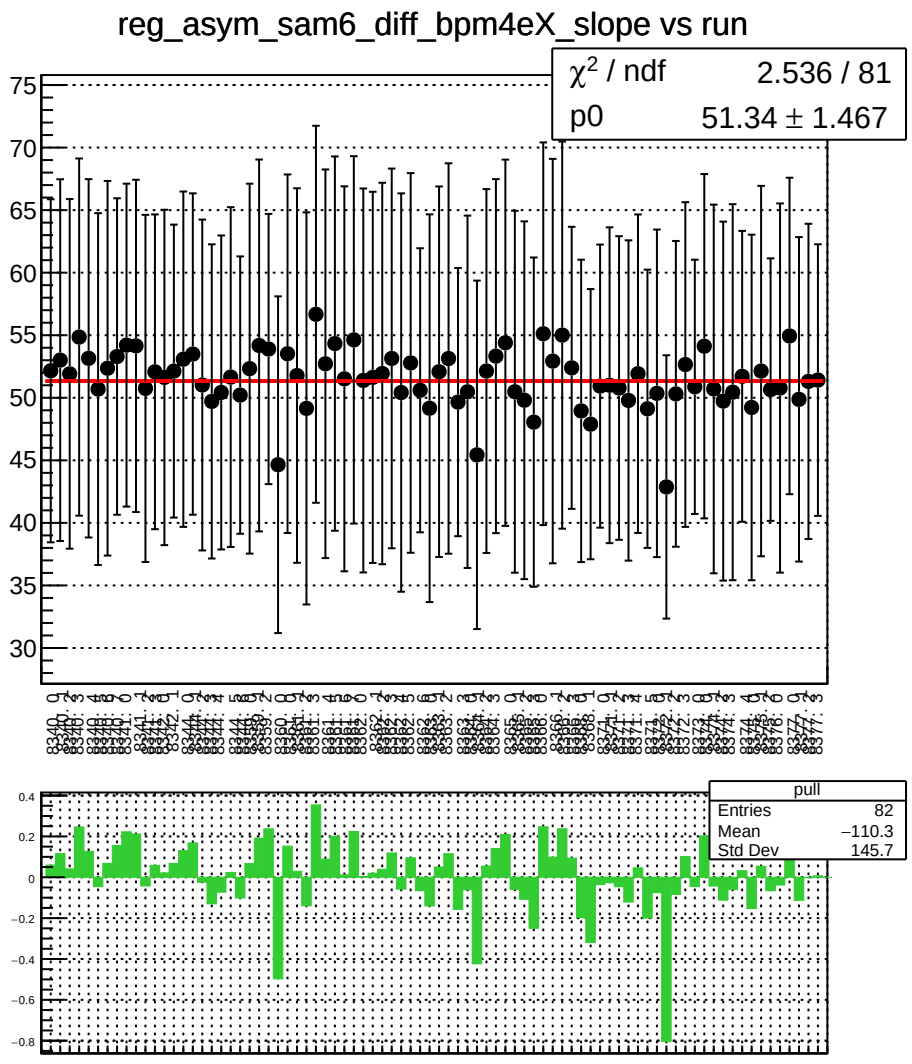

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 2.515 / 81
p0 −0.5892 ± 0.1134
pull
Entries 82
Mean 355.9
Std Dev 318.5
pull1D
Entries 82
Mean −0.005517
Std Dev 0.1751

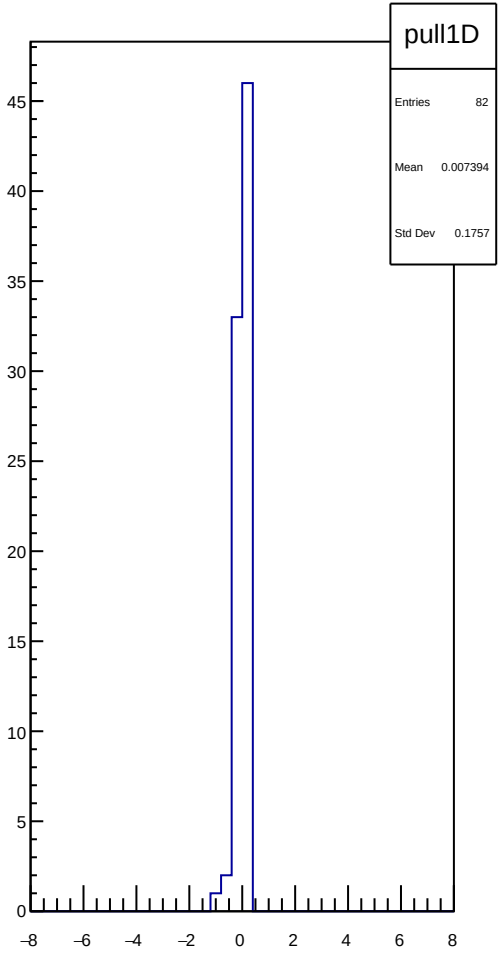

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 1.496 / 81
p0 15.69 ± 1.28
pull
Entries 82
Mean −90.8
Std Dev 127.2

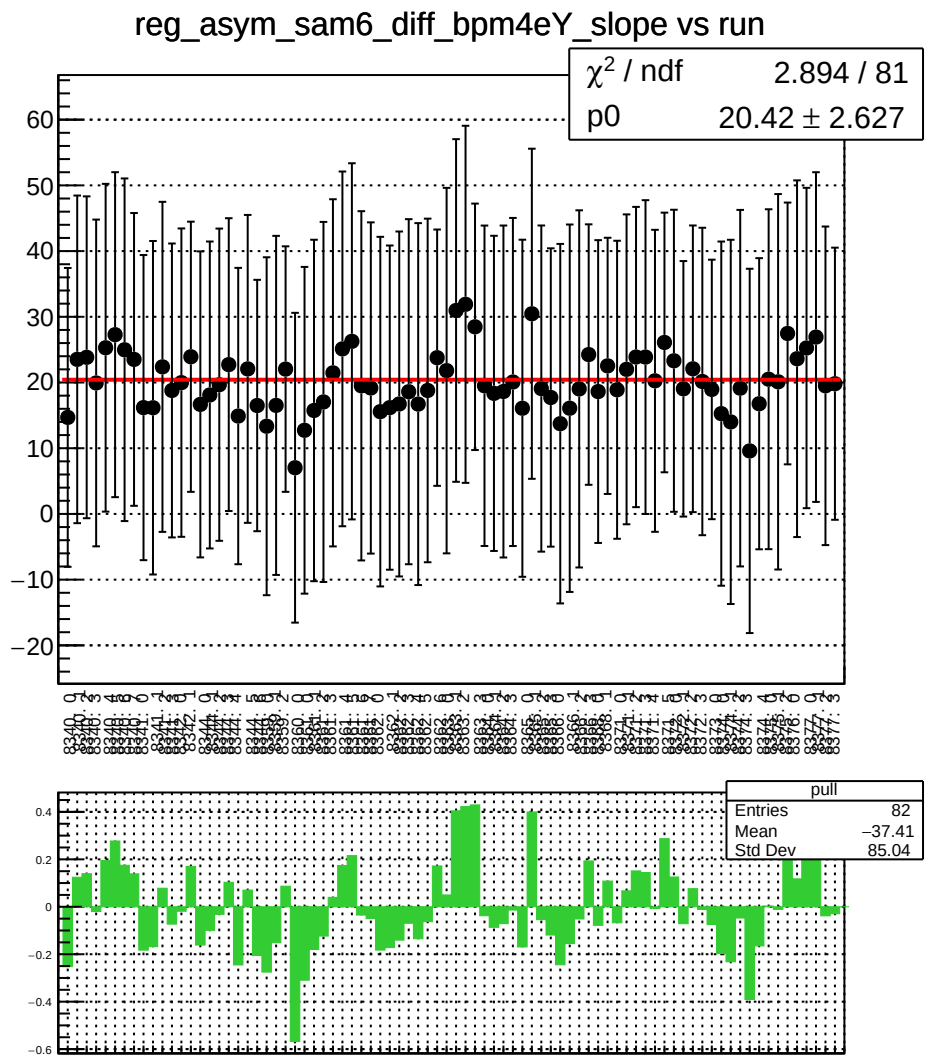

pull1D
Entries 82
Mean −0.003909
Std Dev 0.135

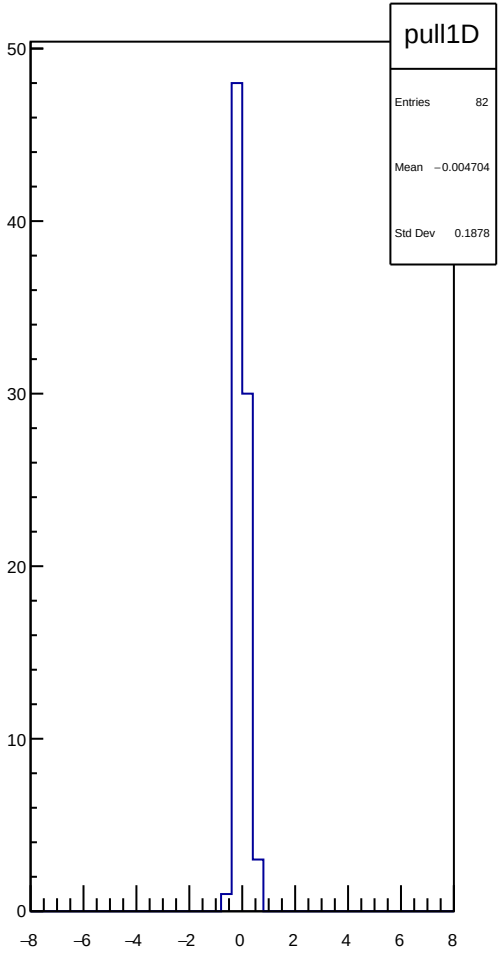

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 3.599 / 81
p0 94.26 ± 2.544
pull
Entries 82
Mean −65.96
Std Dev 112.8

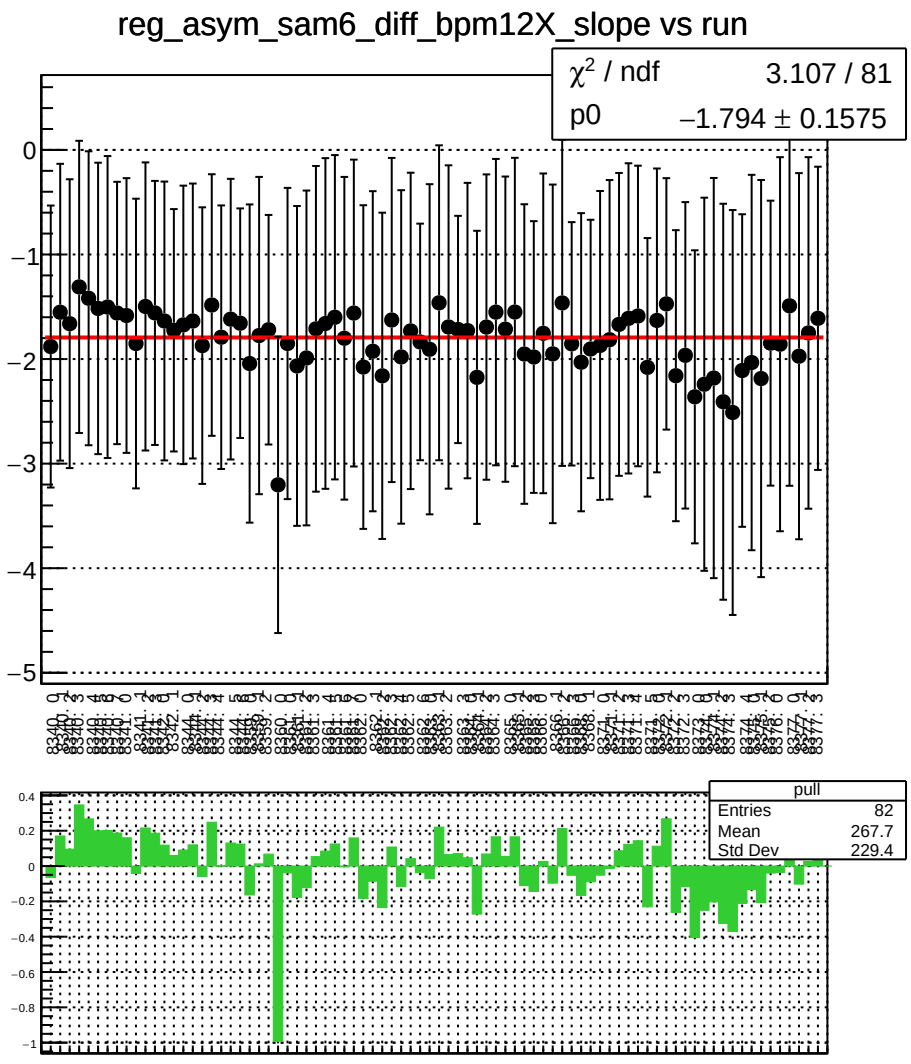

pull1D
Entries 82
Mean 0.007736
Std Dev 0.2094

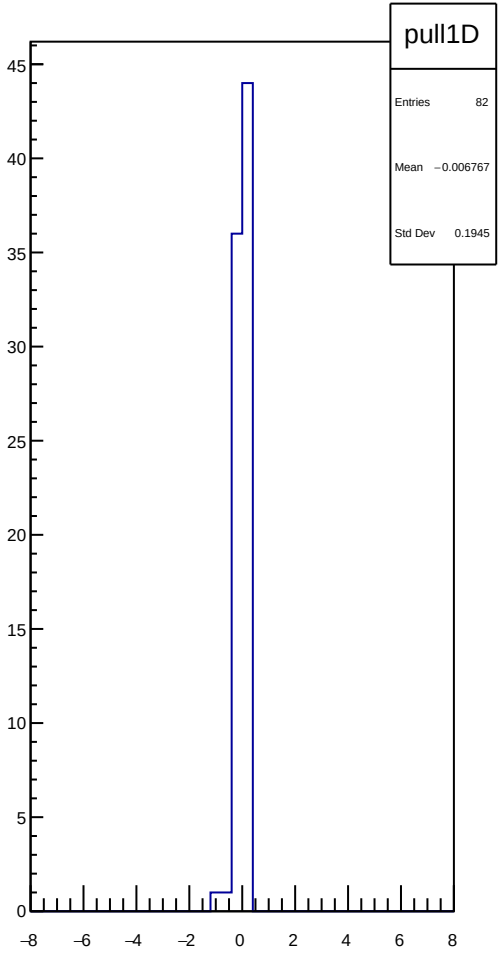

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 2.536 / 81
p0 51.34 ± 1.467
pull
Entries 82
Mean −110.3
Std Dev 145.7

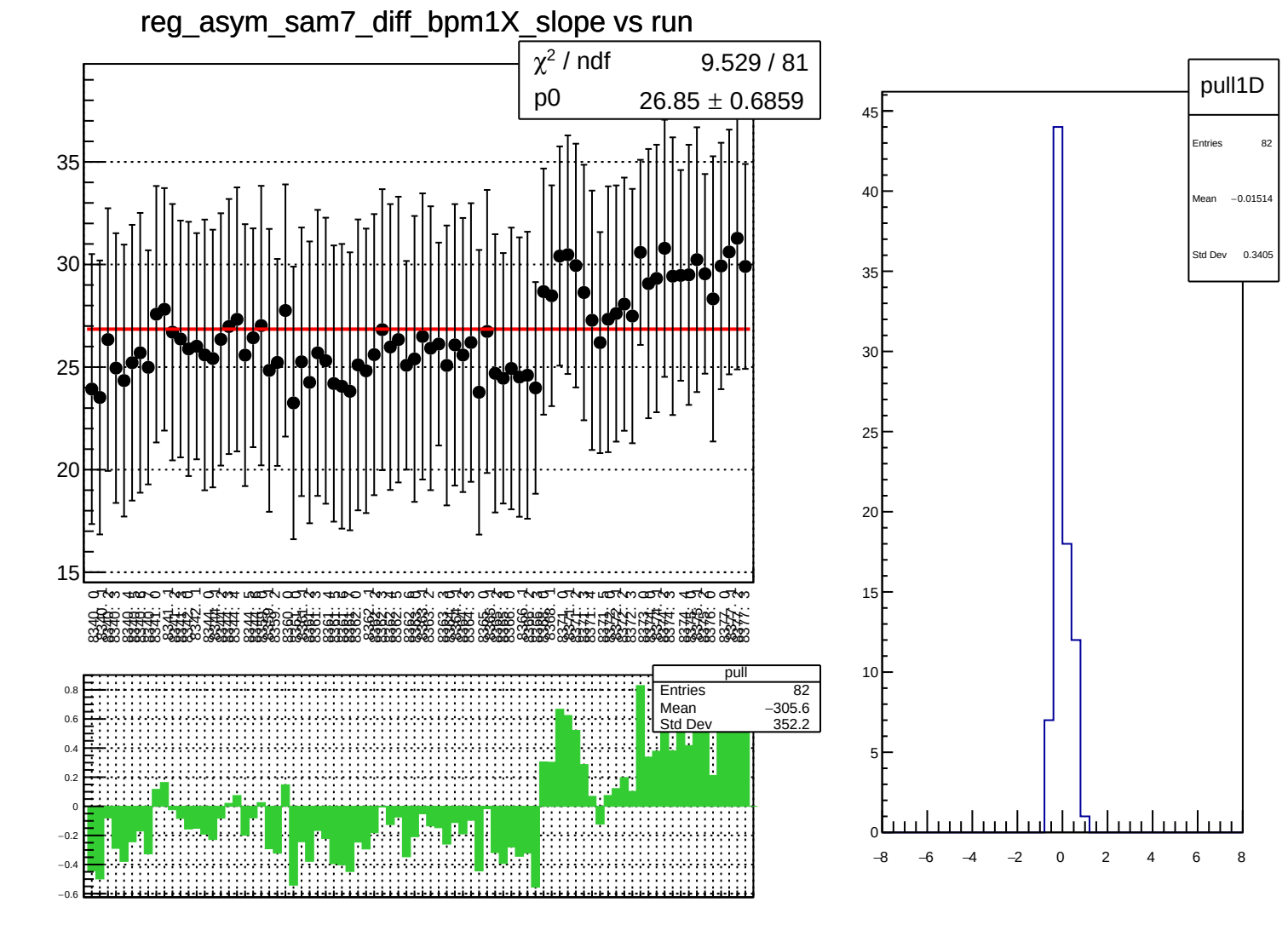

pull1D
Entries 82
Mean 0.007394
Std Dev 0.1757

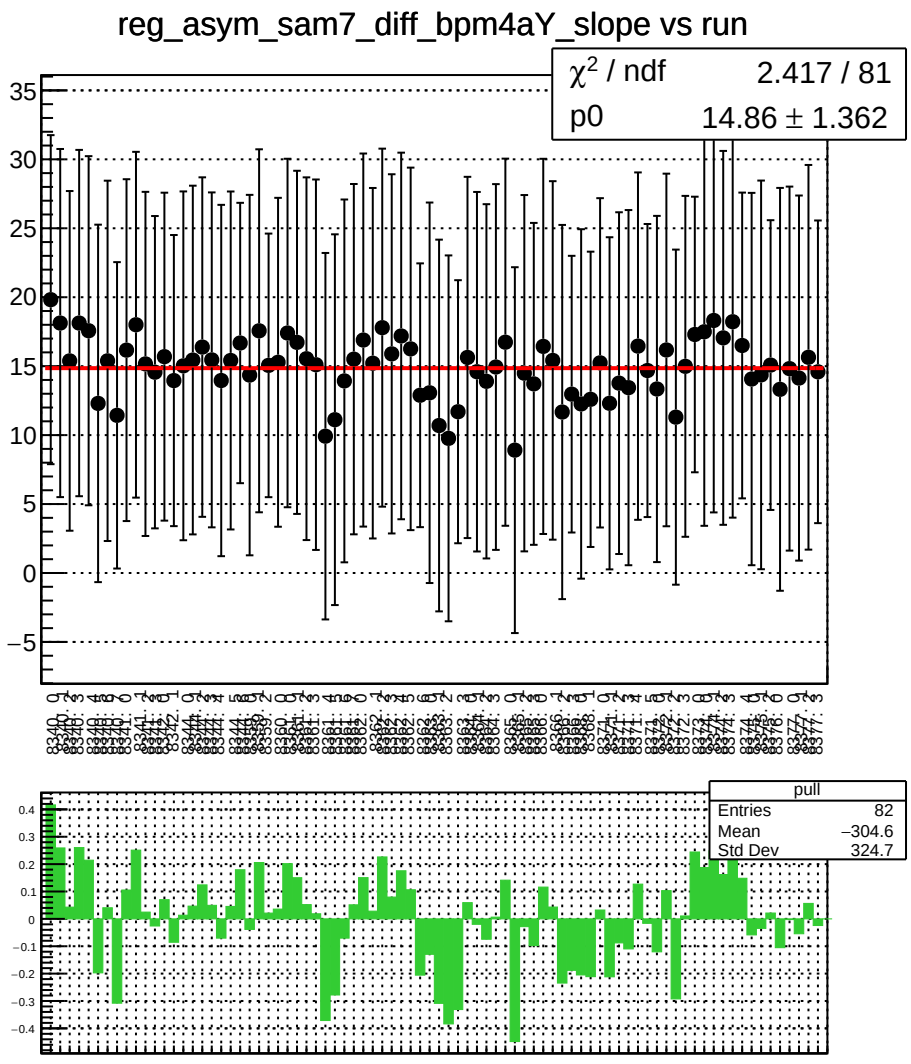

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 2.894 / 81
p0 20.42 ± 2.627
pull
Entries 82
Mean −37.41
Std Dev 85.04

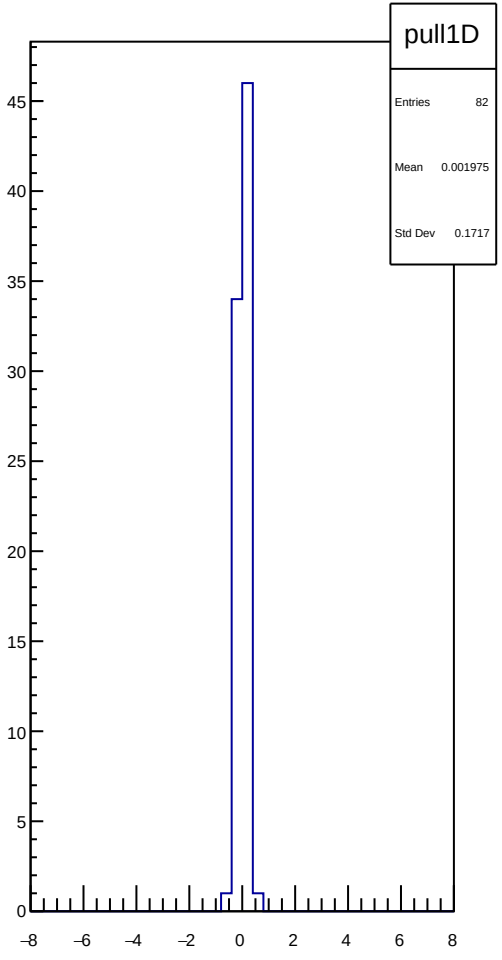

pull1D
Entries 82
Mean −0.004704
Std Dev 0.1878

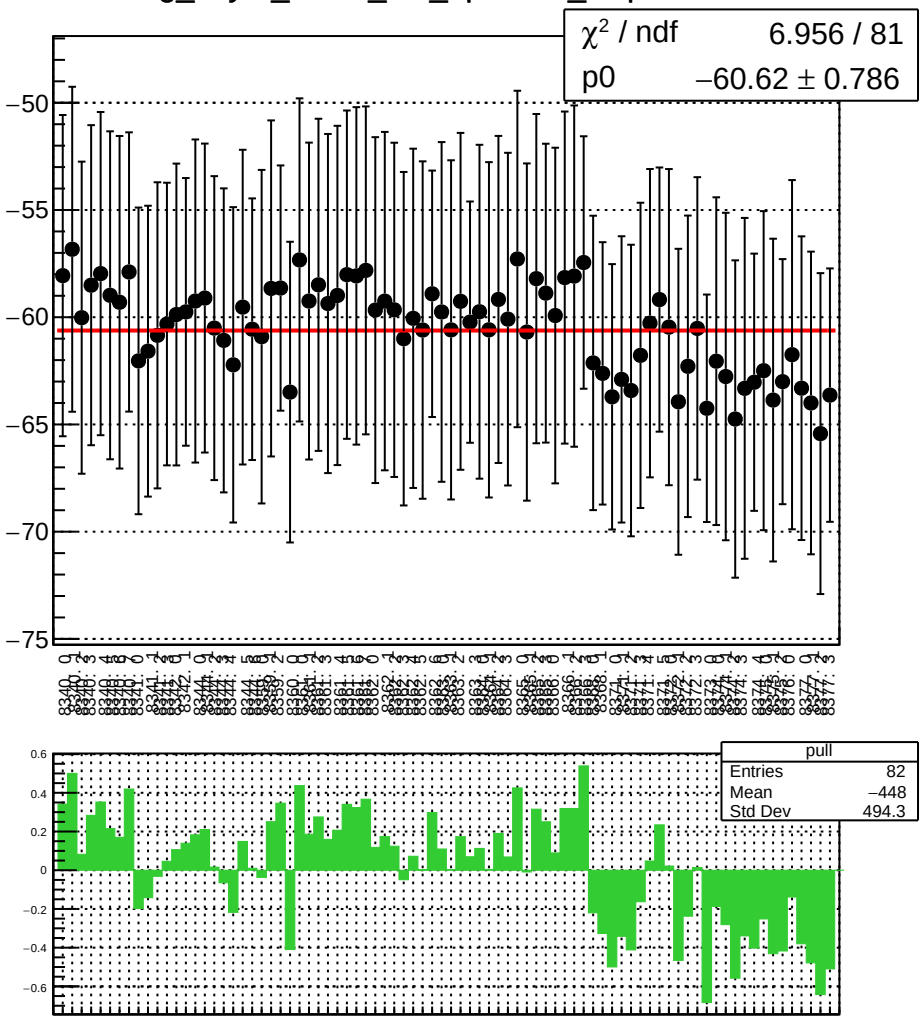

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 3.107 / 81
p0 −1.794 ± 0.1575
pull
Entries 82
Mean 267.7
Std Dev 229.4

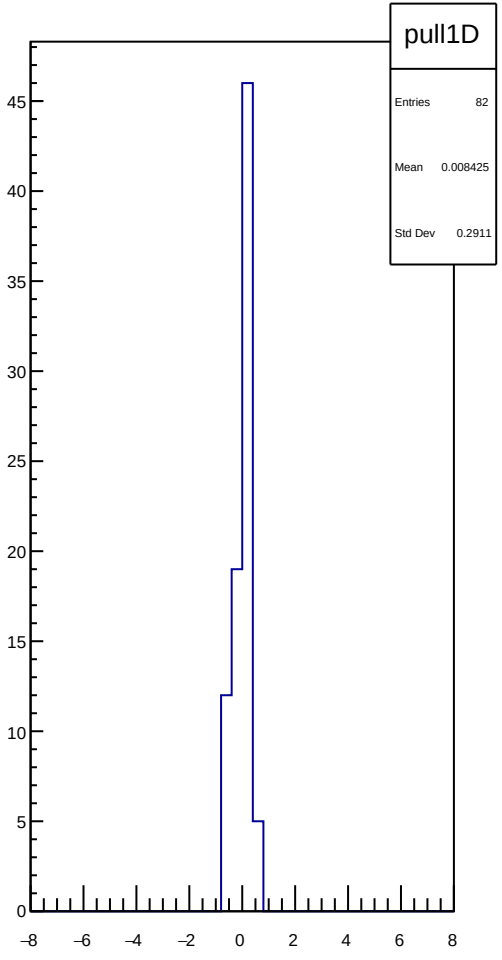

pull1D
Entries 82
Mean −0.006767
Std Dev 0.1945

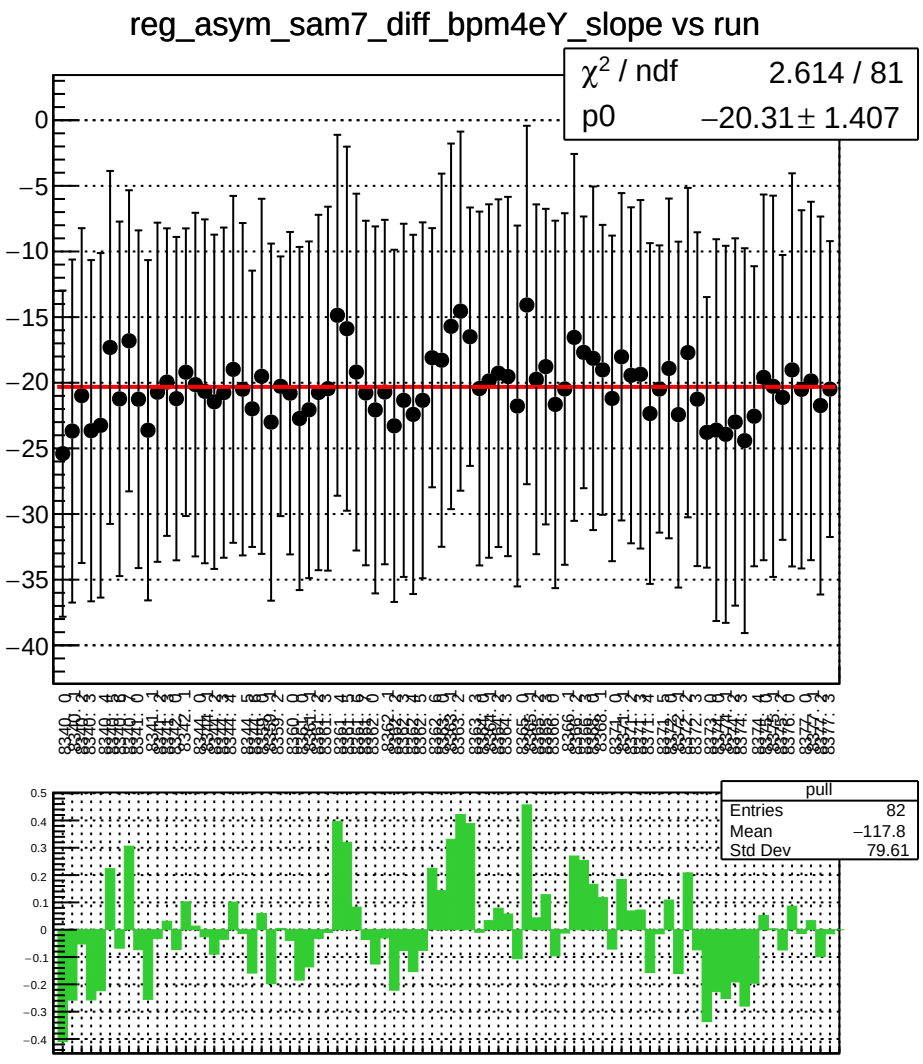

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 9.529 / 81
p0 26.85 ± 0.6859
pull
Entries 82
Mean −305.6
Std Dev 352.2
pull1D
Entries 82
Mean −0.01514
Std Dev 0.3405

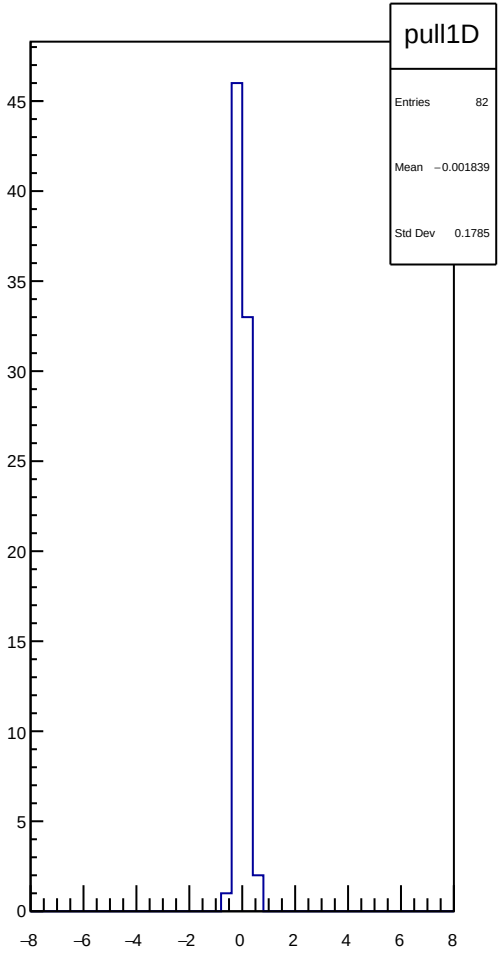

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 2.417 / 81
p0 14.86 ± 1.362
pull
Entries 82
Mean −304.6
Std Dev 324.7

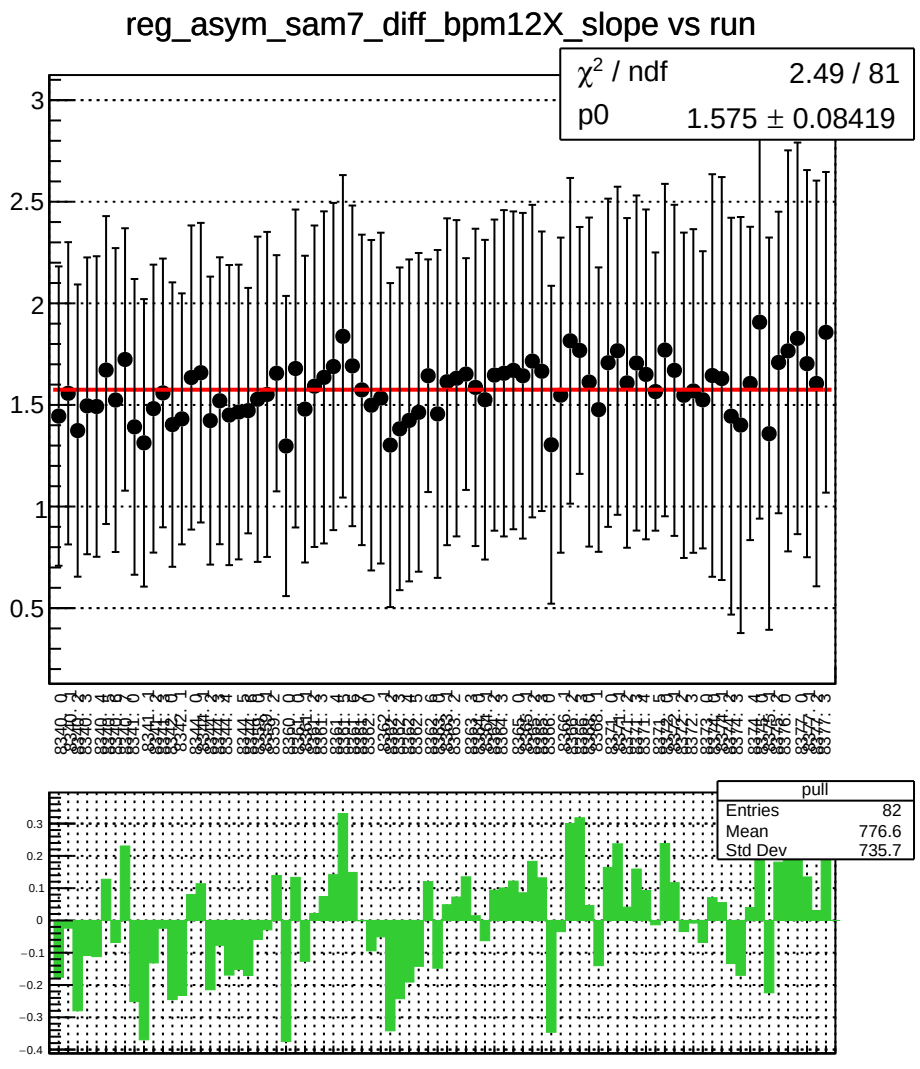

pull1D
Entries 82
Mean 0.001975
Std Dev 0.1717

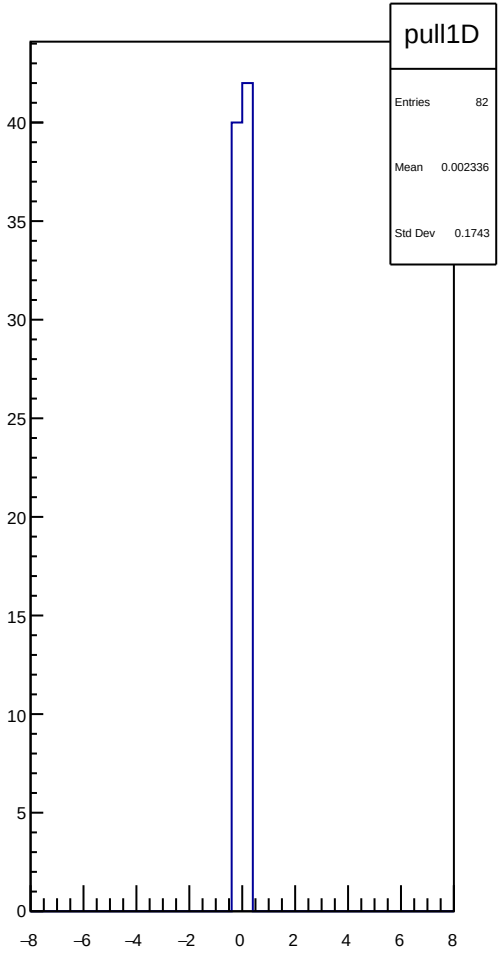

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 6.956 / 81
p0 −60.62 ± 0.786
pull
Entries 82
Mean −448
Std Dev 494.3

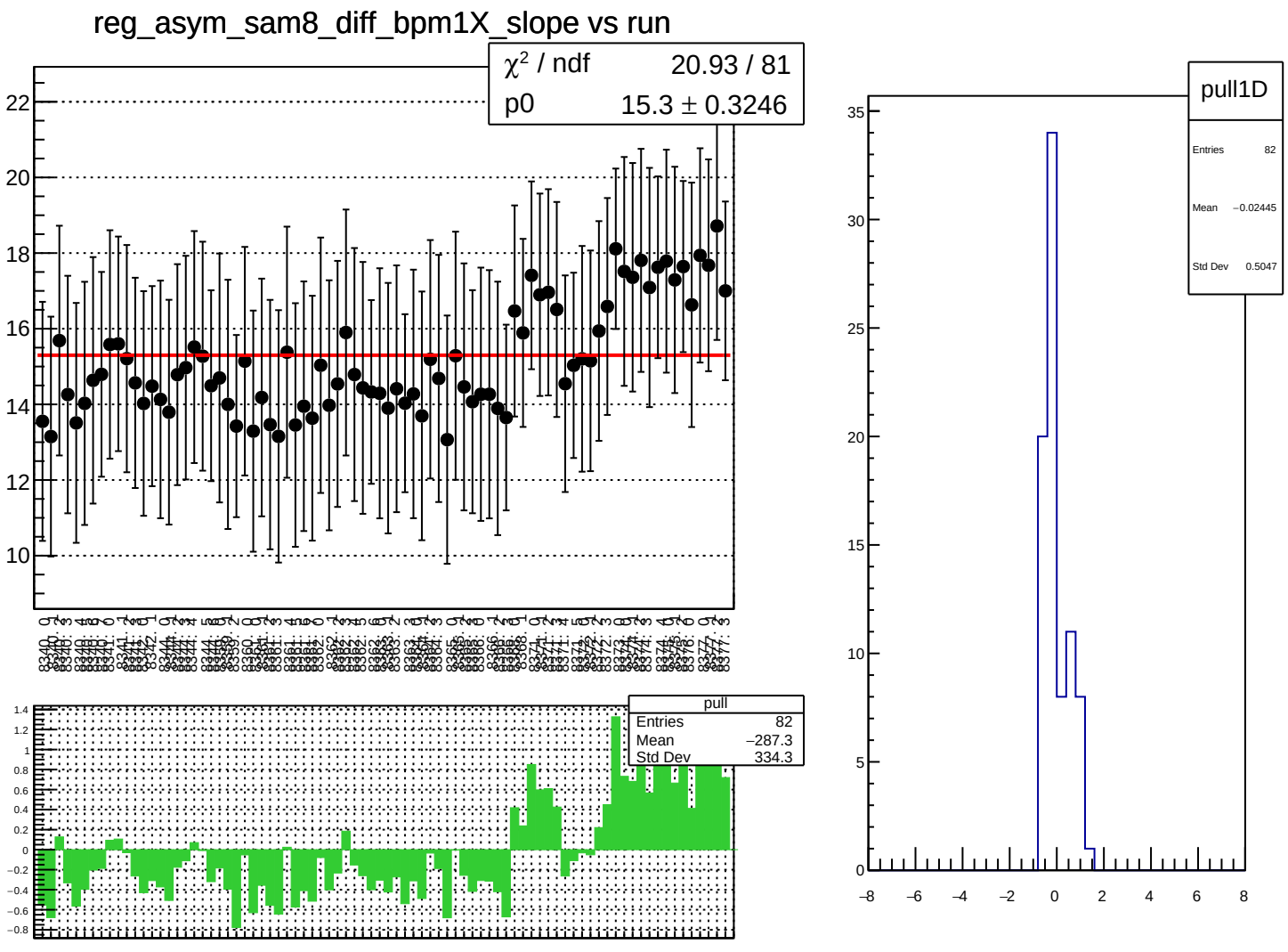

pull1D
Entries 82
Mean 0.008425
Std Dev 0.2911

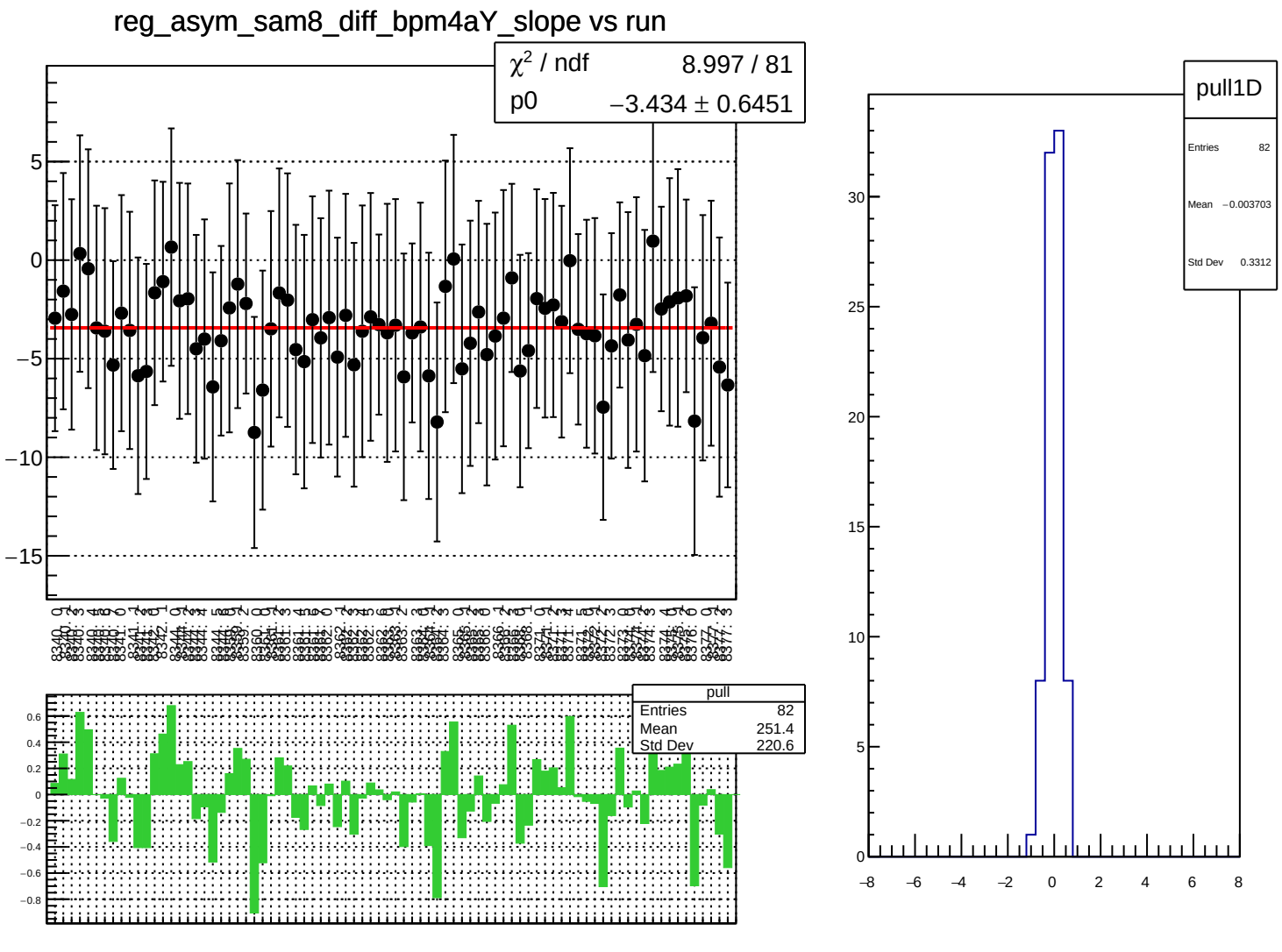

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 2.614 / 81
p0 −20.31 ± 1.407
pull
Entries 82
Mean −117.8
Std Dev 79.61

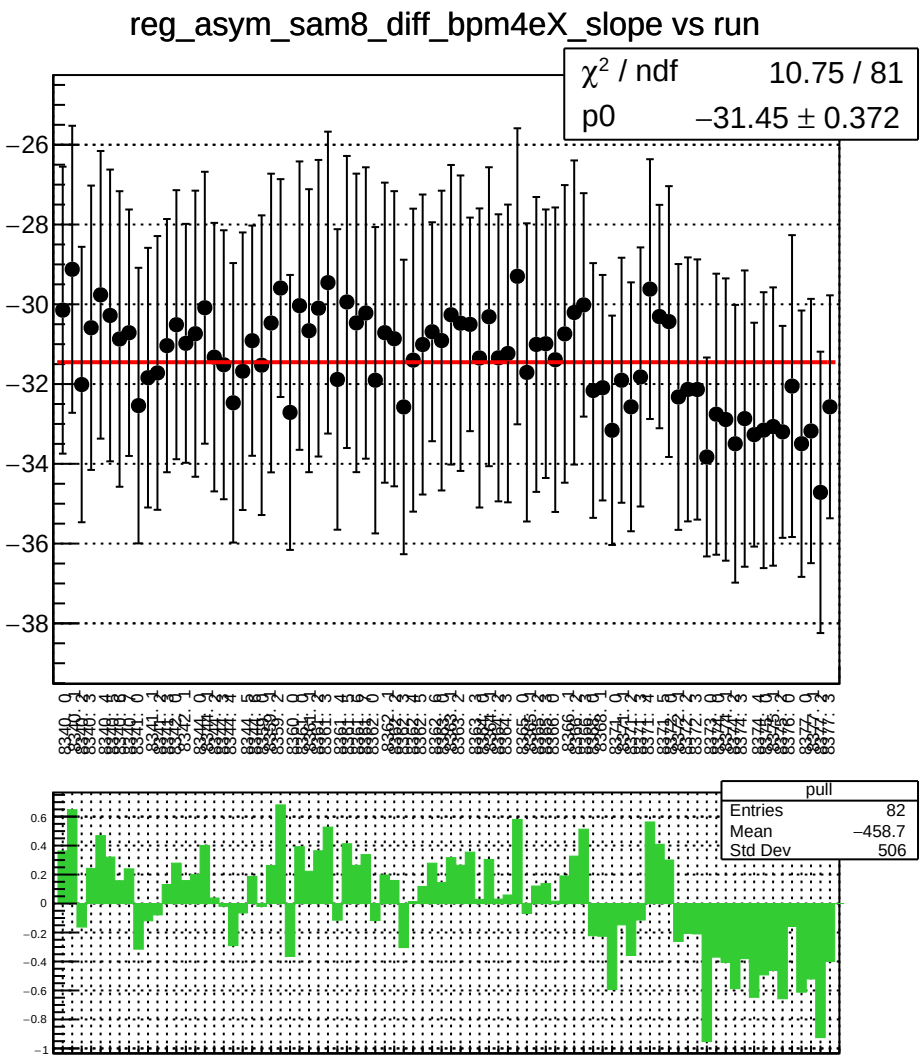

pull1D
Entries 82
Mean −0.001839
Std Dev 0.1785

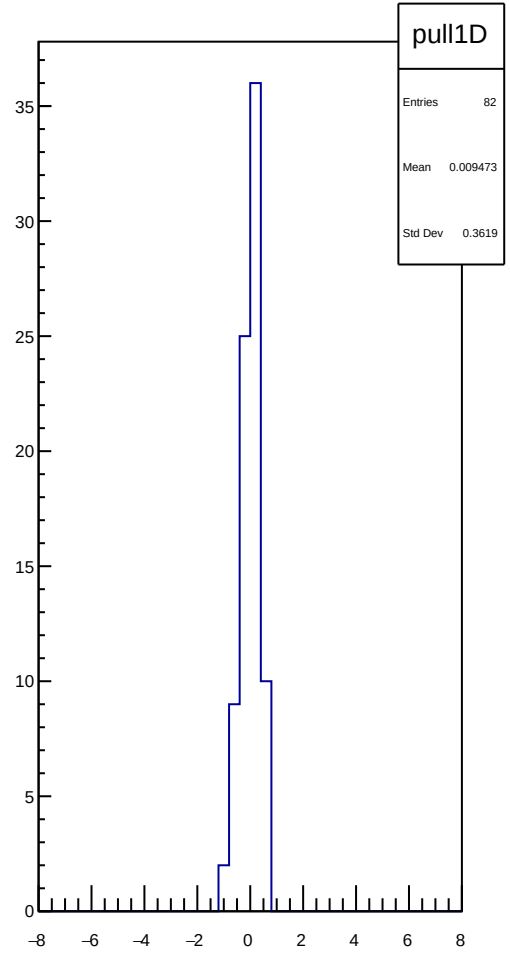

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 2.49 / 81
p0 1.575 ± 0.08419
pull
Entries 82
Mean 776.6
Std Dev 735.7

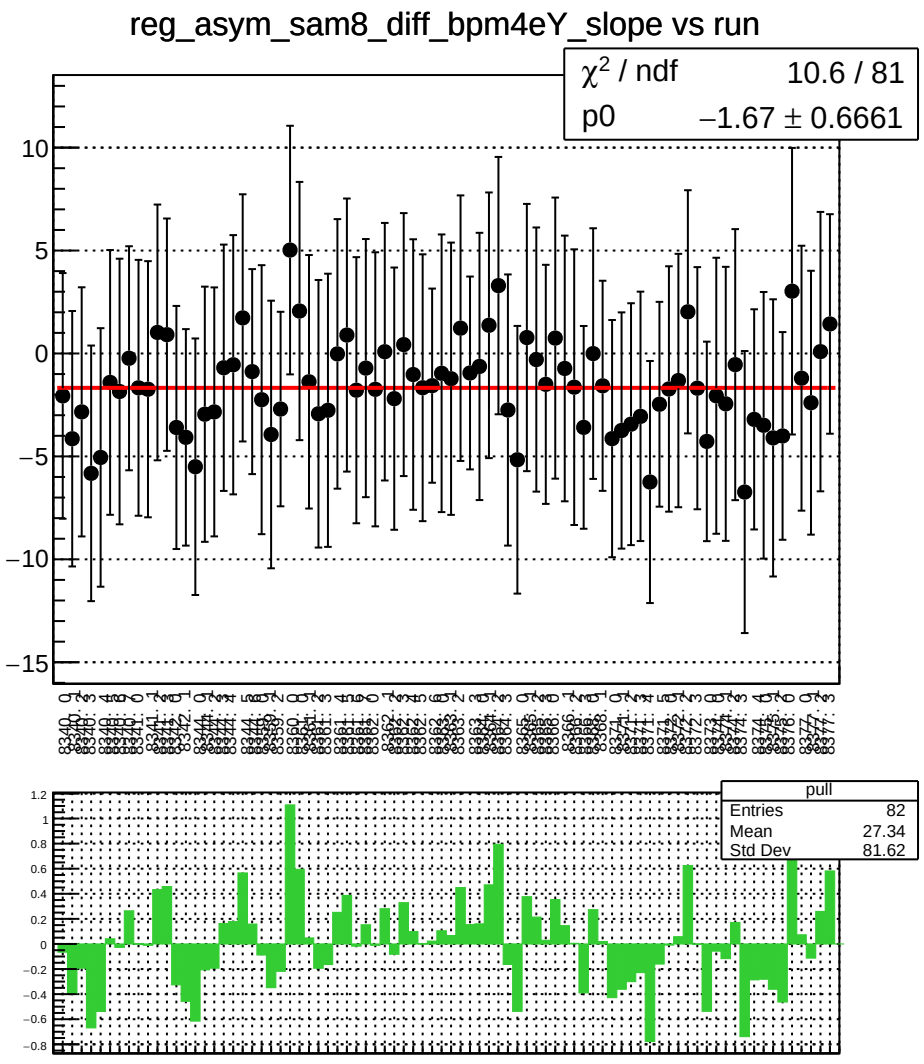

pull1D
Entries 82
Mean 0.002336
Std Dev 0.1743

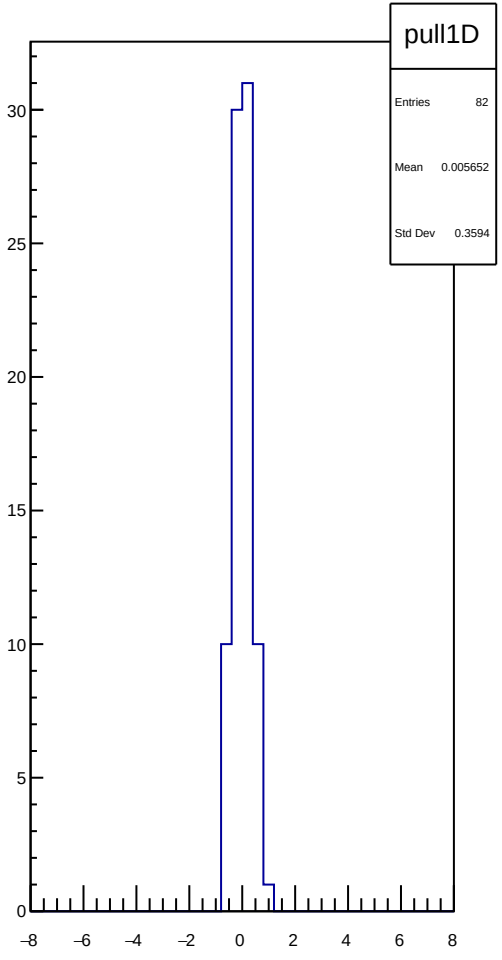

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 20.93 / 81
p0 15.3 ± 0.3246
pull
Entries 82
Mean −287.3
Std Dev 334.3
pull1D
Entries 82
Mean −0.02445
Std Dev 0.5047

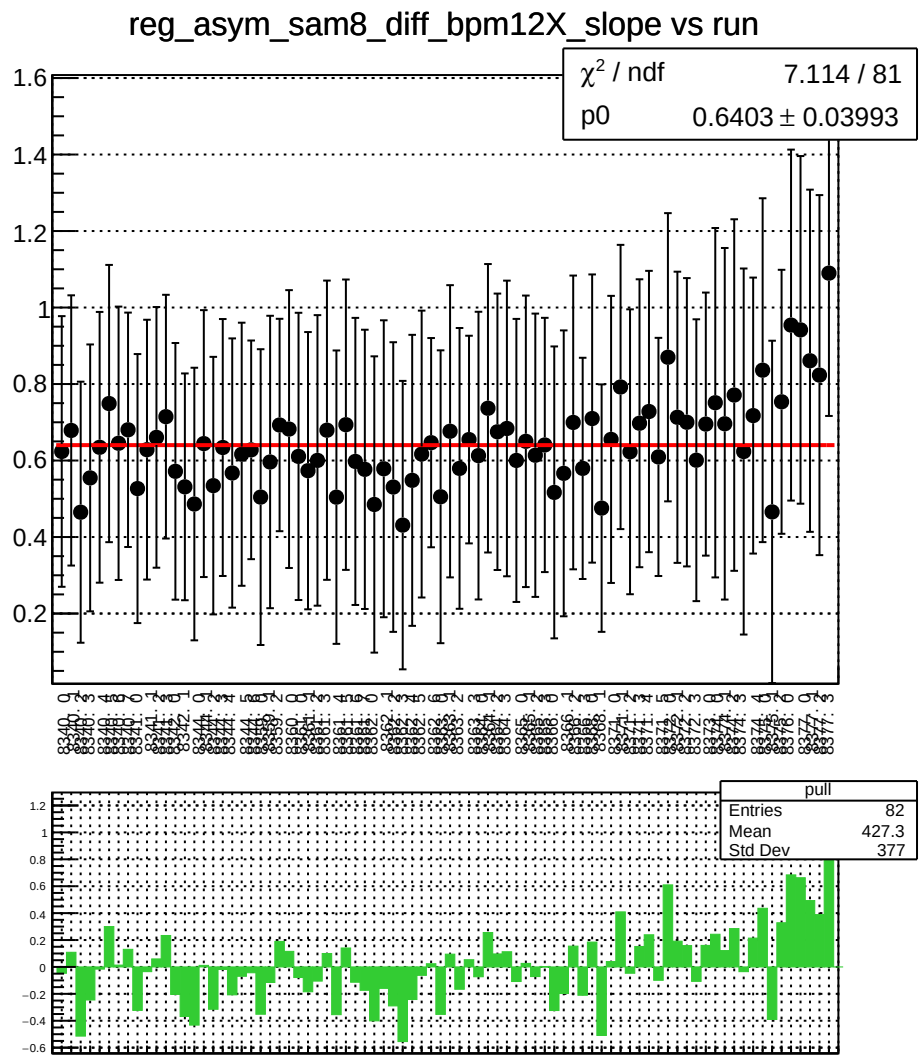

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 8.997 / 81
p0 −3.434 ± 0.6451
pull
Entries 82
Mean 251.4
Std Dev 220.6
pull1D
Entries 82
Mean −0.003703
Std Dev 0.3312

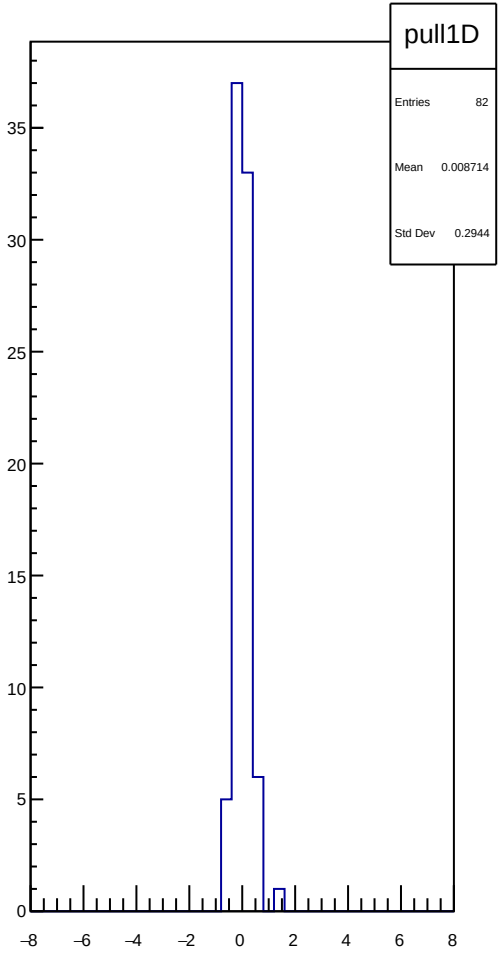

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 10.75 / 81
p0 −31.45 ± 0.372
pull
Entries 82
Mean −458.7
Std Dev 506

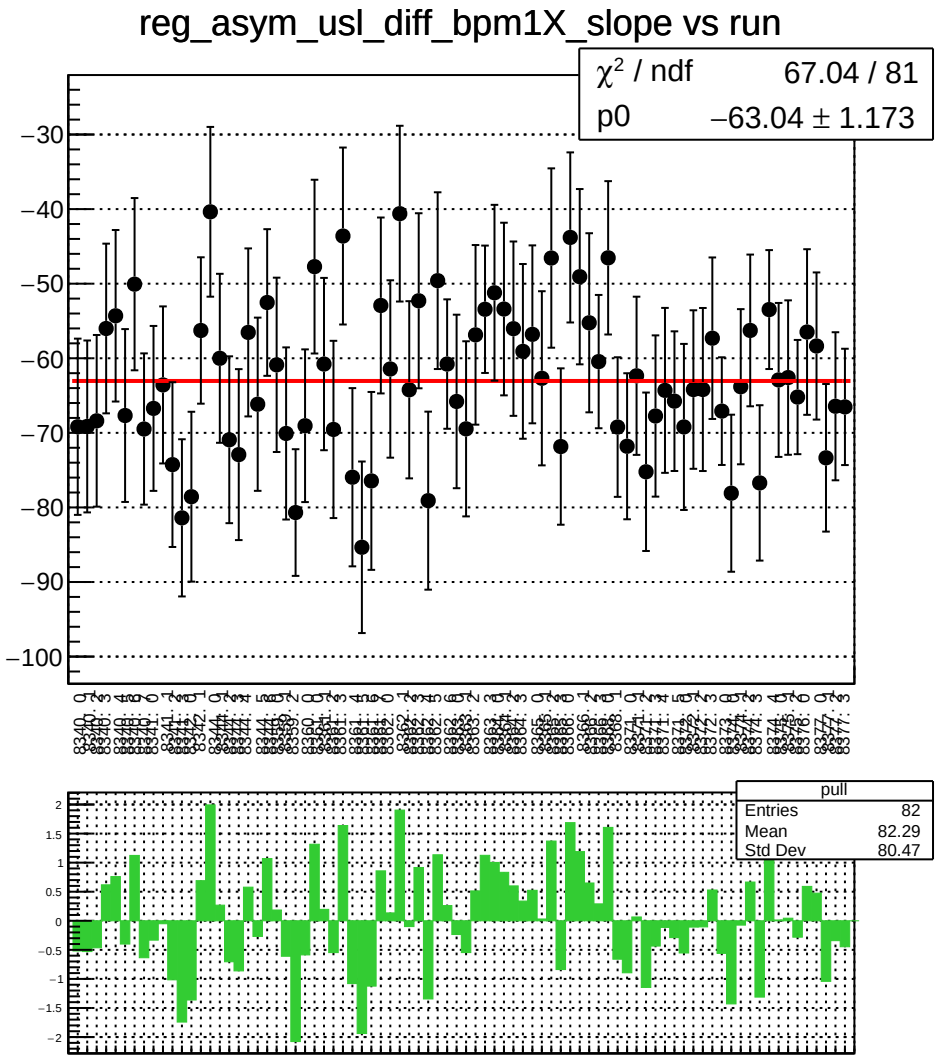

pull1D
Entries 82
Mean 0.009473
Std Dev 0.3619

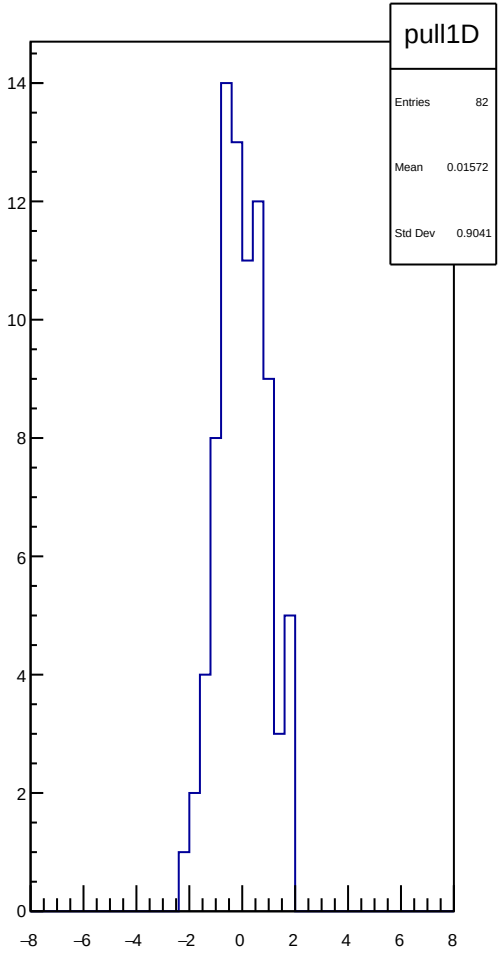

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 10.6 / 81
p0 −1.67 ± 0.6661
pull
Entries 82
Mean 27.34
Std Dev 81.62

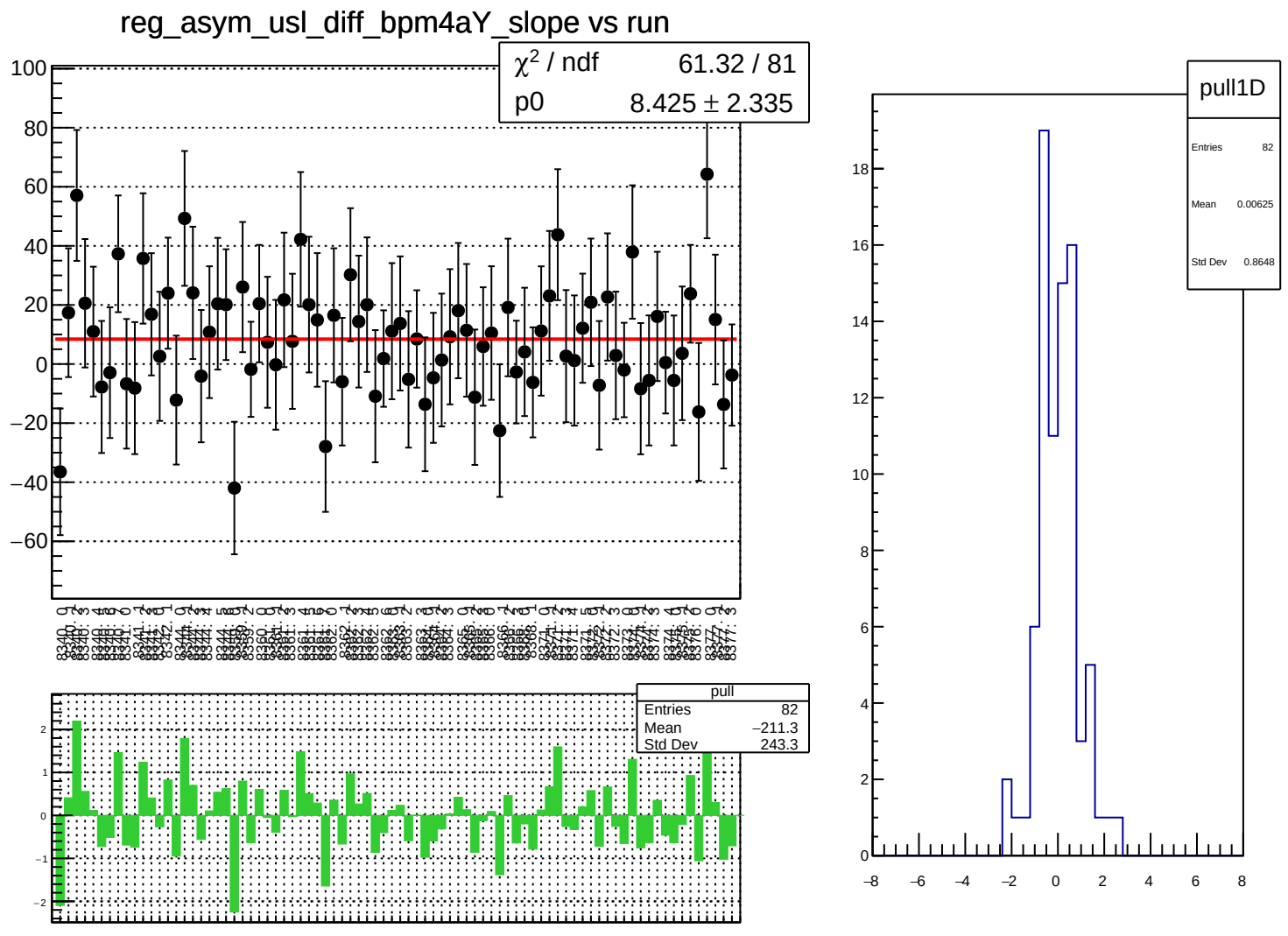

pull1D
Entries 82
Mean 0.005652
Std Dev 0.3594

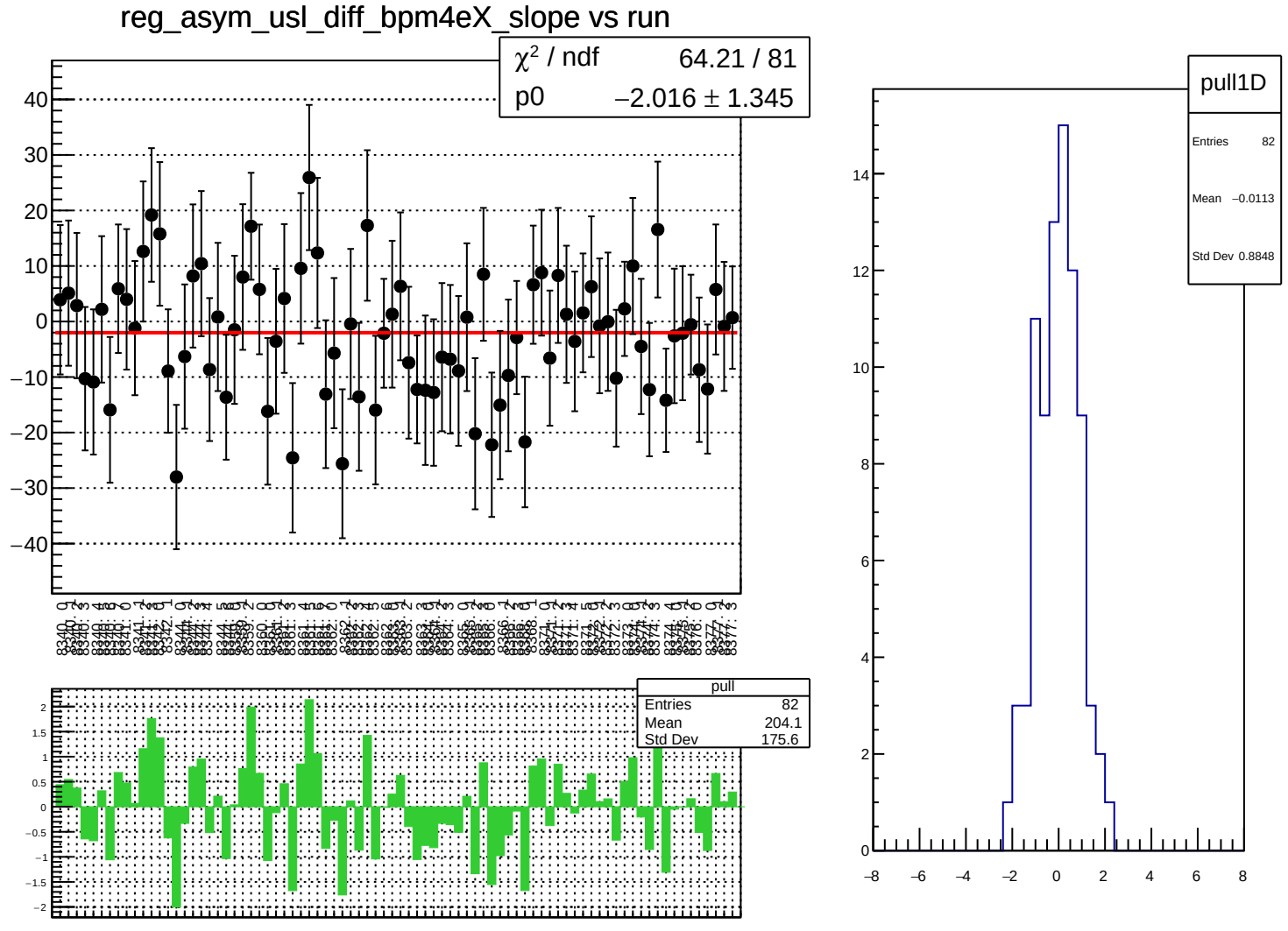

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 7.114 / 81
p0 0.6403 ± 0.03993
pull
Entries 82
Mean 427.3
Std Dev 377

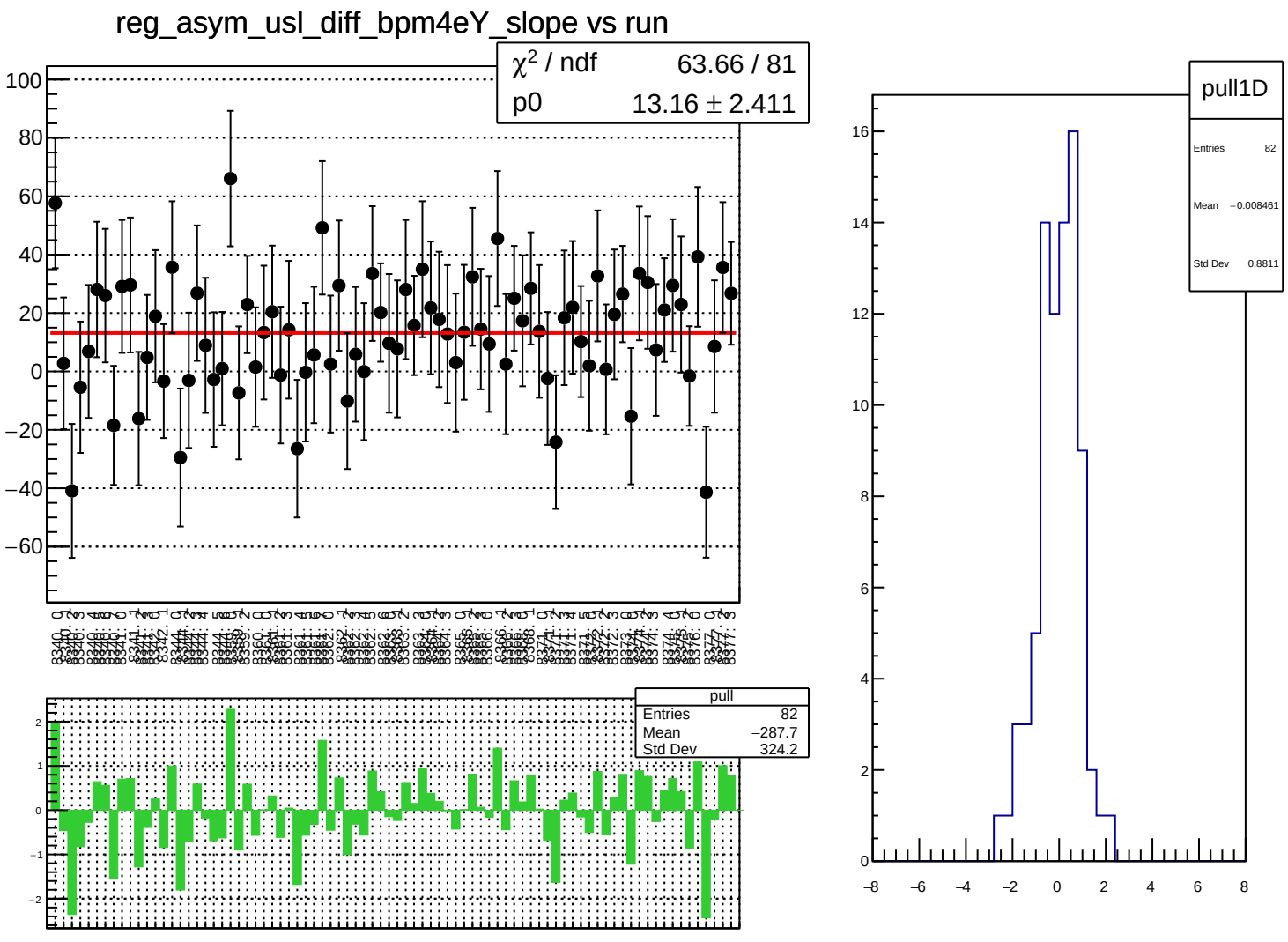

pull1D
Entries 82
Mean 0.008714
Std Dev 0.2944

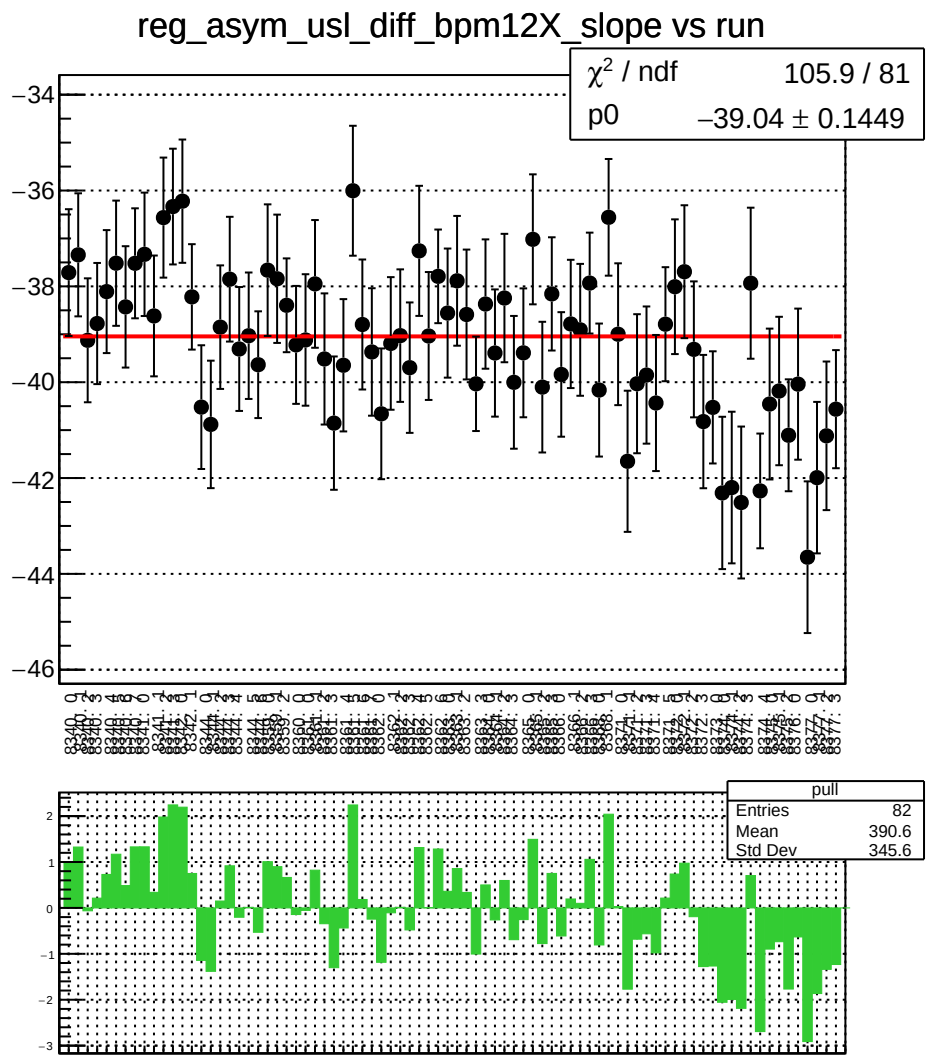

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 67.04 / 81
p0 −63.04 ± 1.173
pull
Entries 82
Mean 82.29
Std Dev 80.47

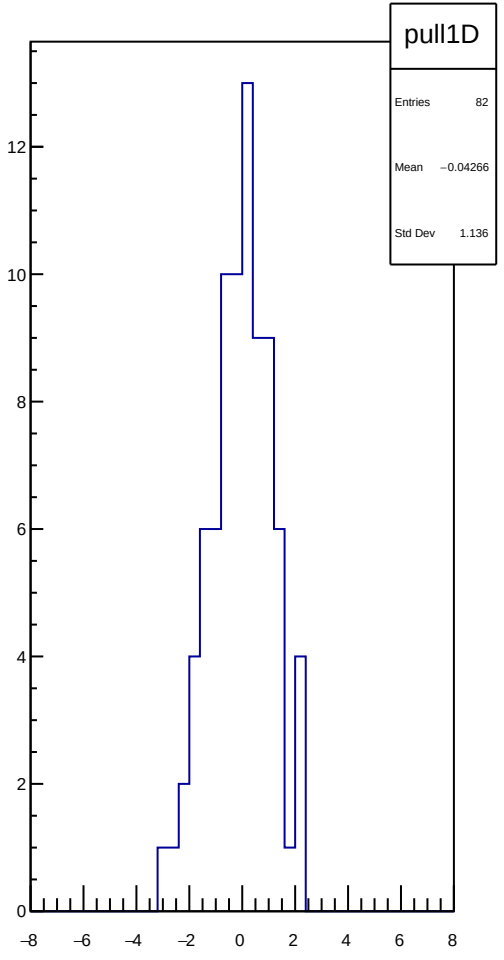

pull1D
Entries 82
Mean 0.01572
Std Dev 0.9041

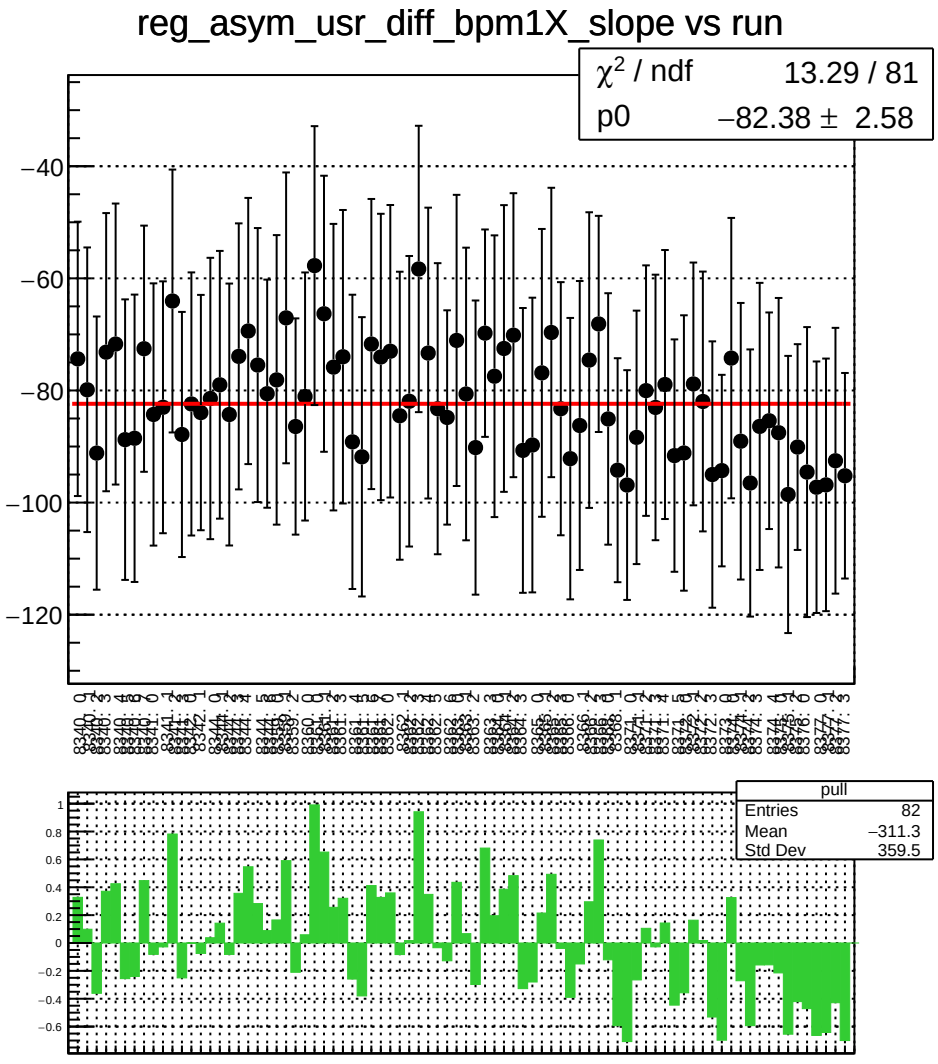

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 61.32 / 81
p0 8.425 ± 2.335
pull
Entries 82
Mean −211.3
Std Dev 243.3
pull1D
Entries 82
Mean 0.00625
Std Dev 0.8648

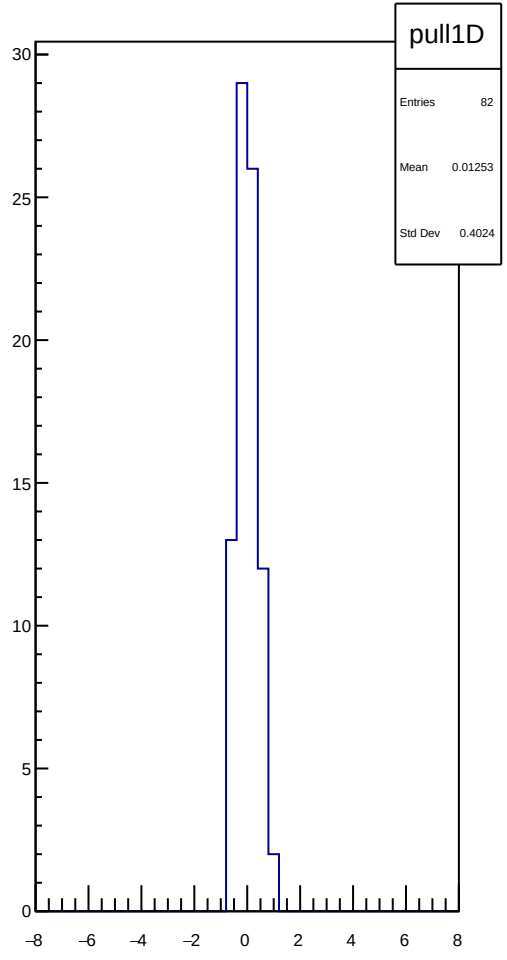

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 64.21 / 81
p0 −2.016 ± 1.345
pull
Entries 82
Mean 204.1
Std Dev 175.6
pull1D
Entries 82
Mean −0.0113
Std Dev 0.8848

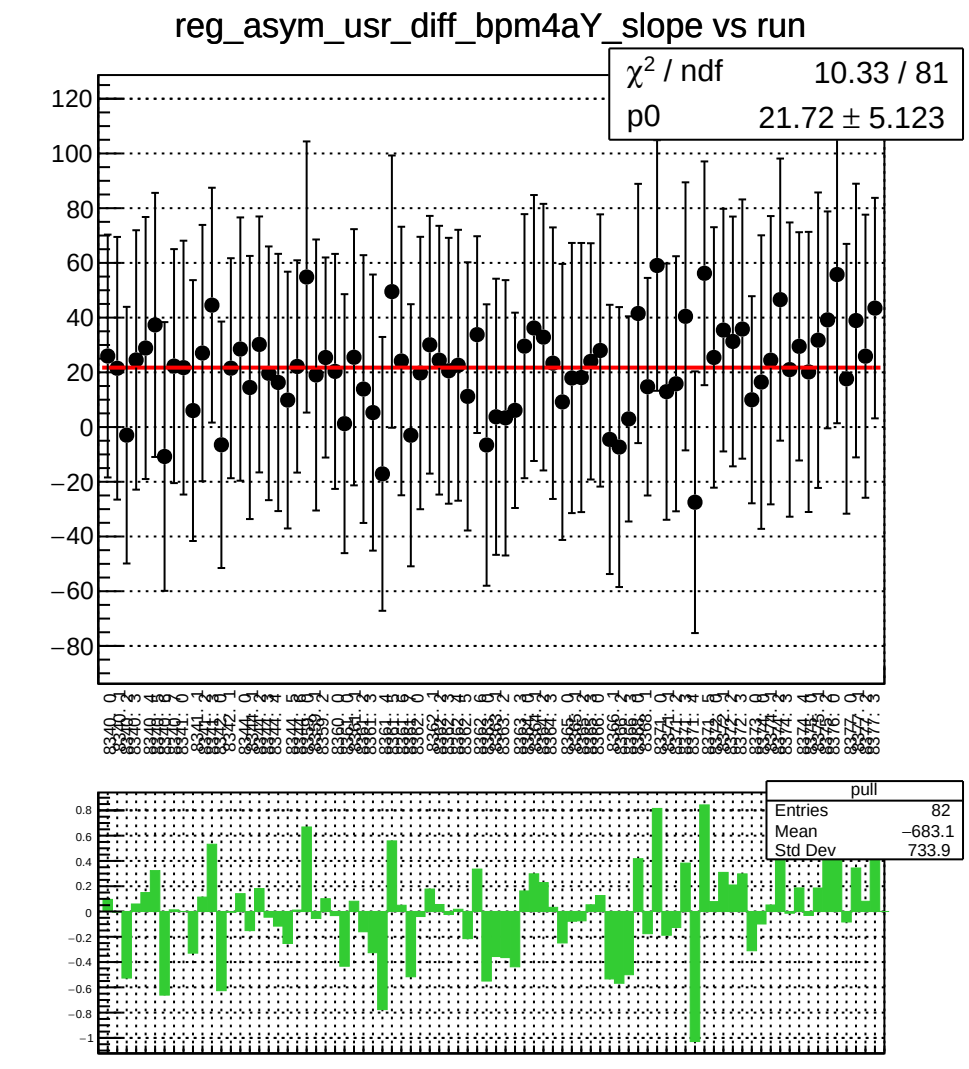

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 63.66 / 81
p0 13.16 ± 2.411
pull
Entries 82
Mean −287.7
Std Dev 324.2
pull1D
Entries 82
Mean −0.008461
Std Dev 0.8811

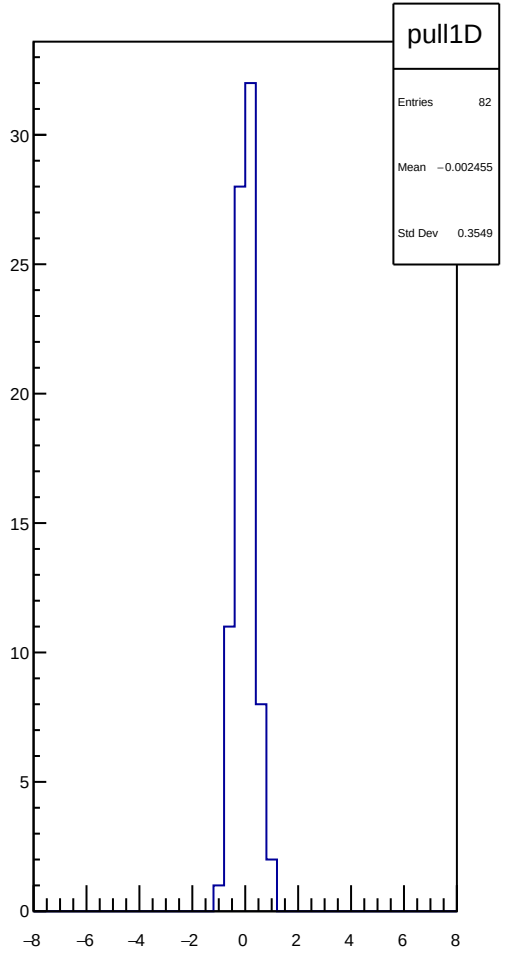

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 105.9 / 81
p0 −39.04 ± 0.1449
pull
Entries 82
Mean 390.6
Std Dev 345.6

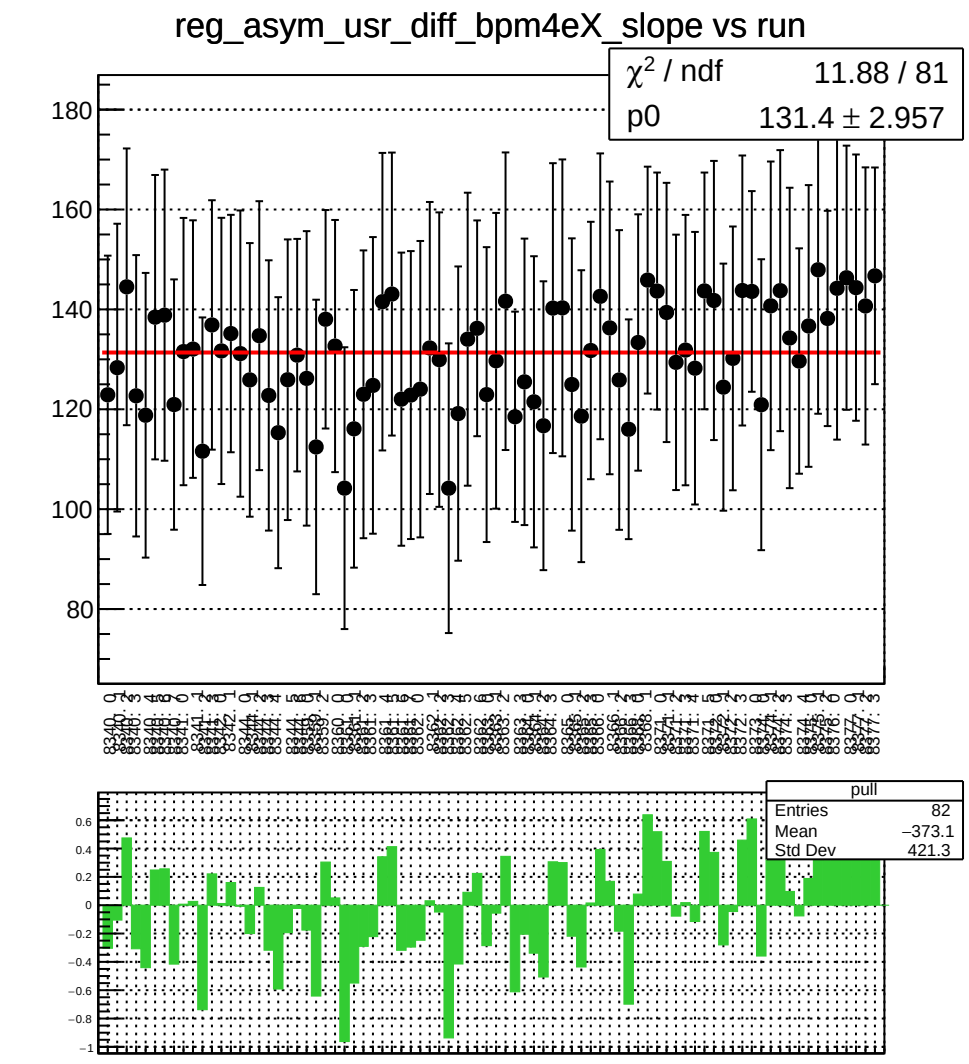

pull1D
Entries 82
Mean −0.04266
Std Dev 1.136

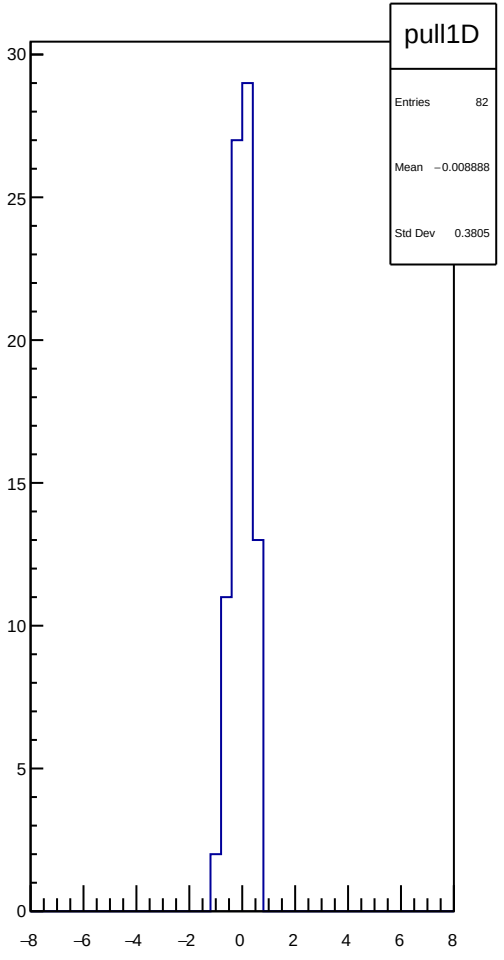

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 13.29 / 81
p0 −82.38 ± 2.58
−40
−60
−80
−100
−120
pull
Entries 82
Mean −311.3
Std Dev 359.5
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

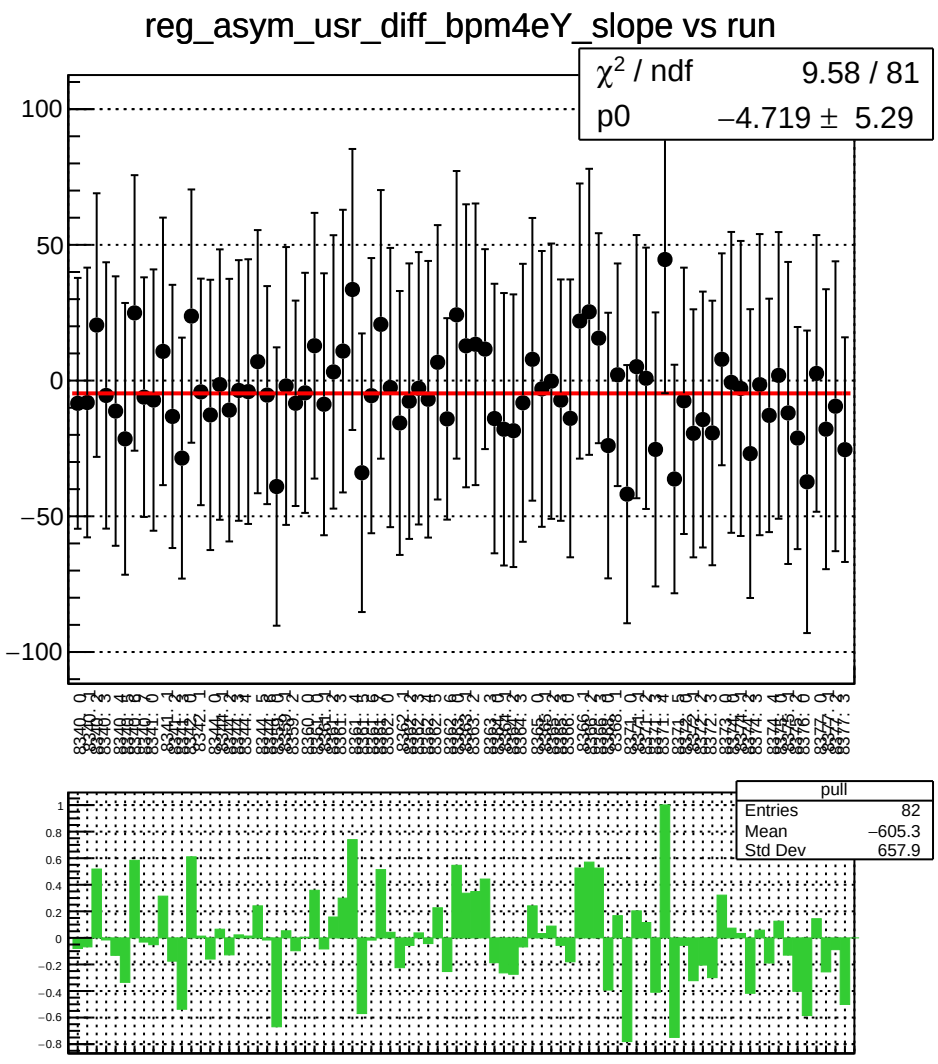

pull1D
Entries 82
Mean 0.01253
Std Dev 0.4024
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

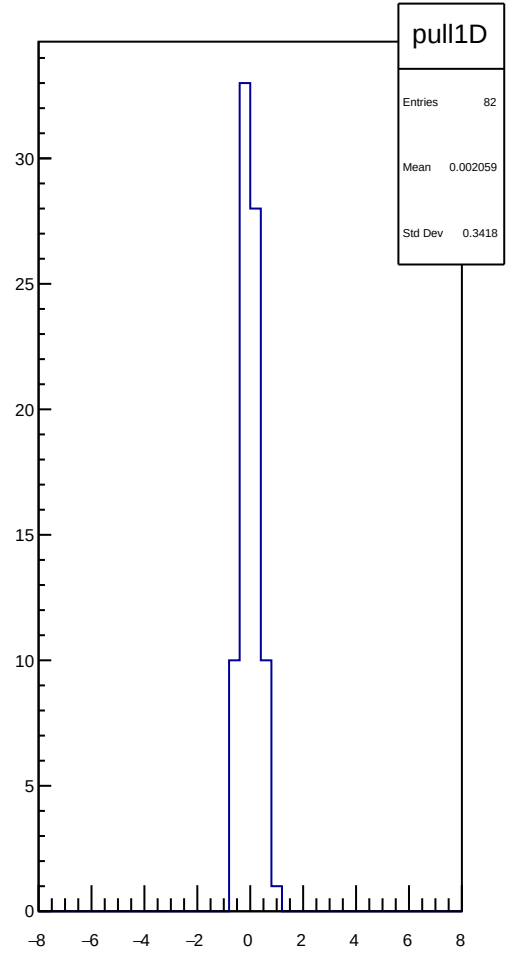

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 10.33 / 81
p0 21.72 ± 5.123
pull
Entries 82
Mean −683.1
Std Dev 733.9

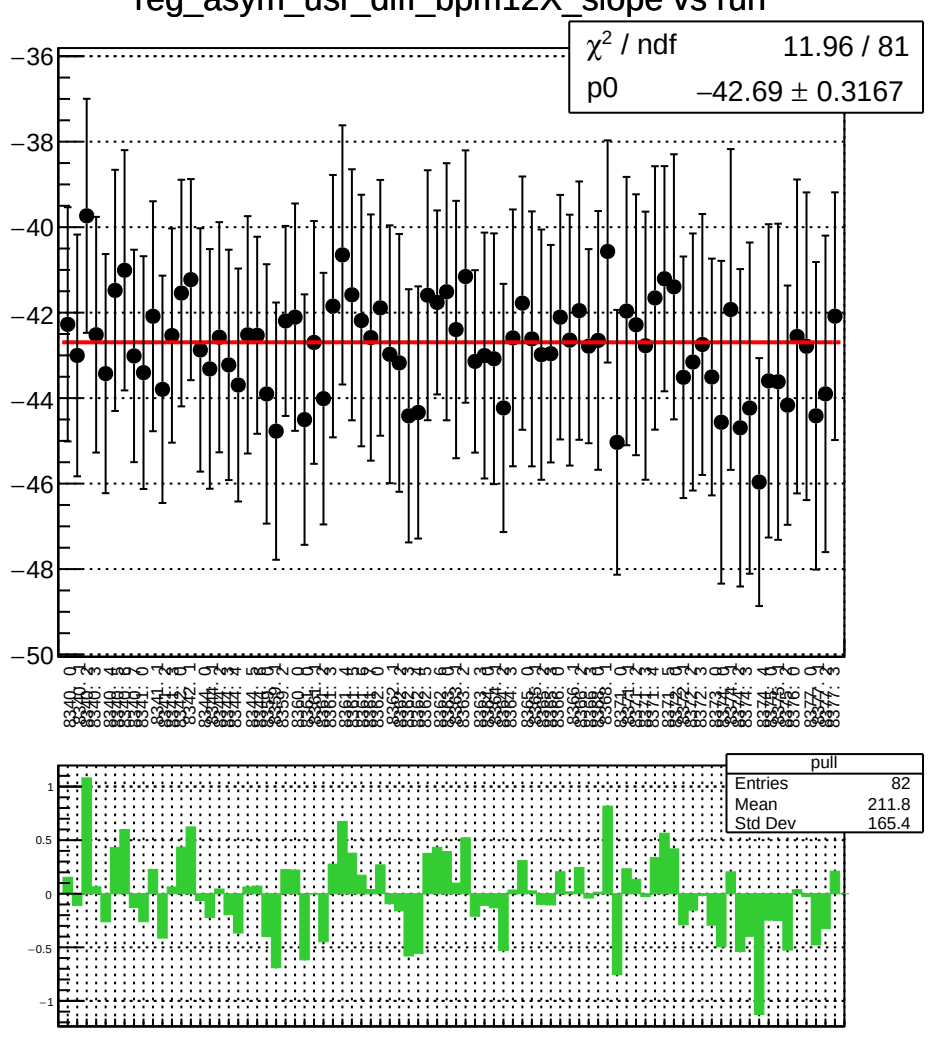

pull1D
Entries 82
Mean −0.002455
Std Dev 0.3549

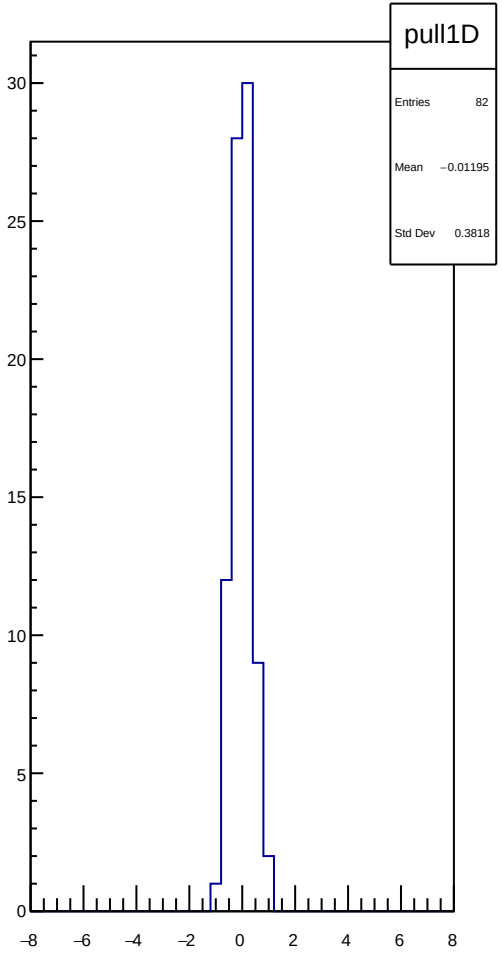

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 11.88 / 81
p0 131.4 ± 2.957
pull
Entries 82
Mean −373.1
Std Dev 421.3

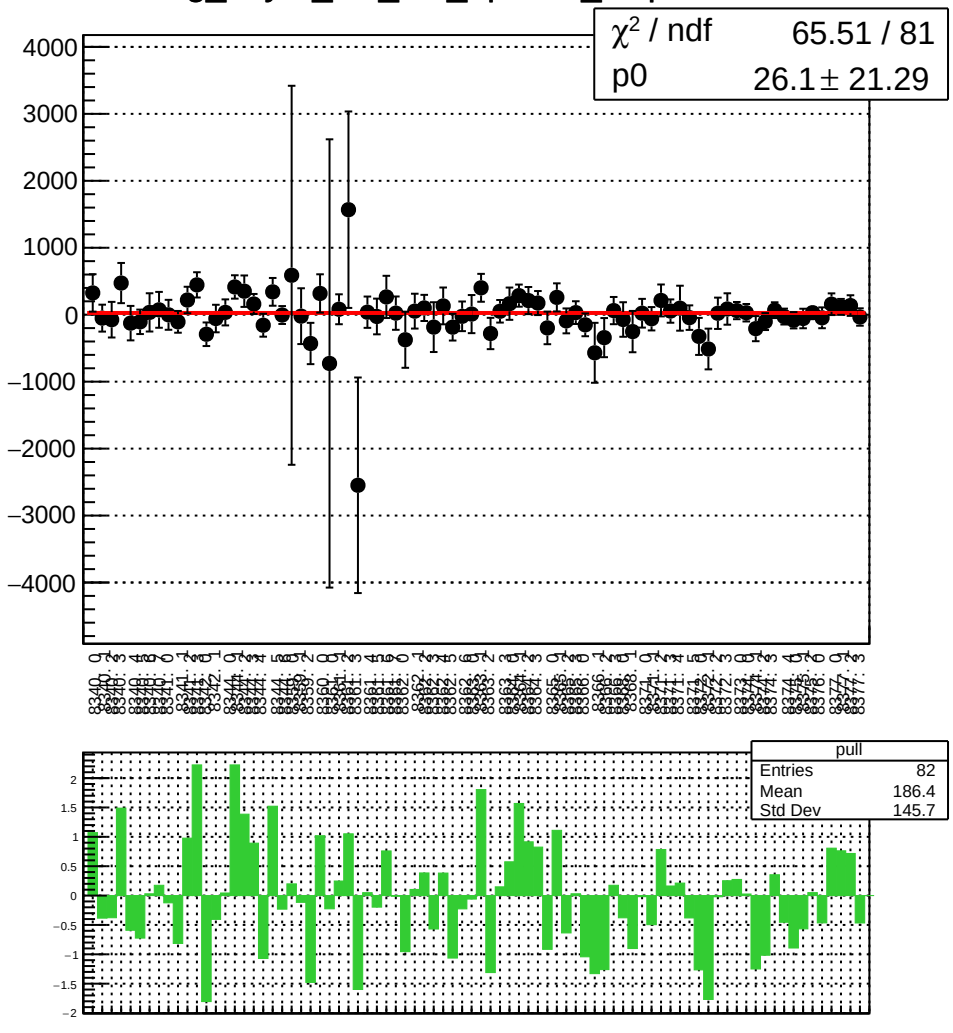

pull1D
Entries 82
Mean −0.008888
Std Dev 0.3805

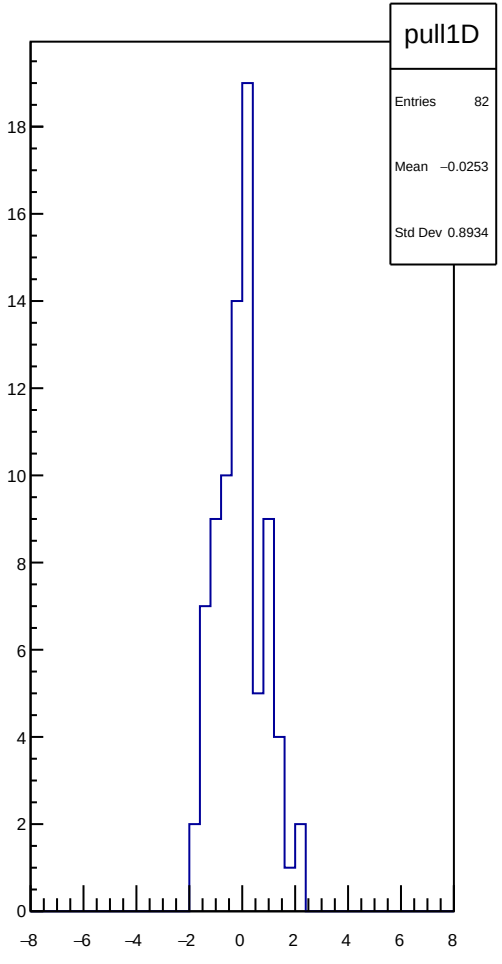

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 9.58 / 81
p0 −4.719 ± 5.29
100
50
0
−50
−100
pull
Entries 82
Mean −605.3
Std Dev 657.9
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

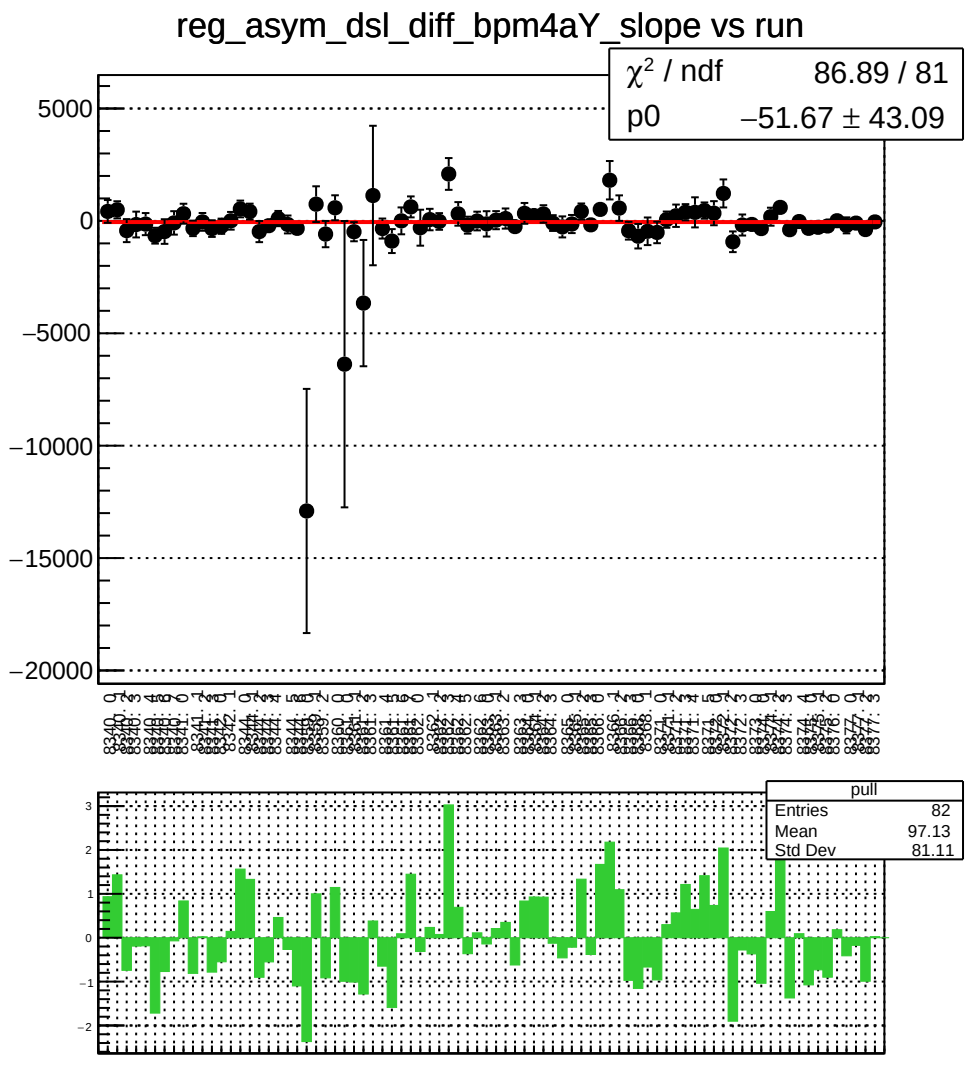

pull1D
Entries 82
Mean 0.002059
Std Dev 0.3418
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

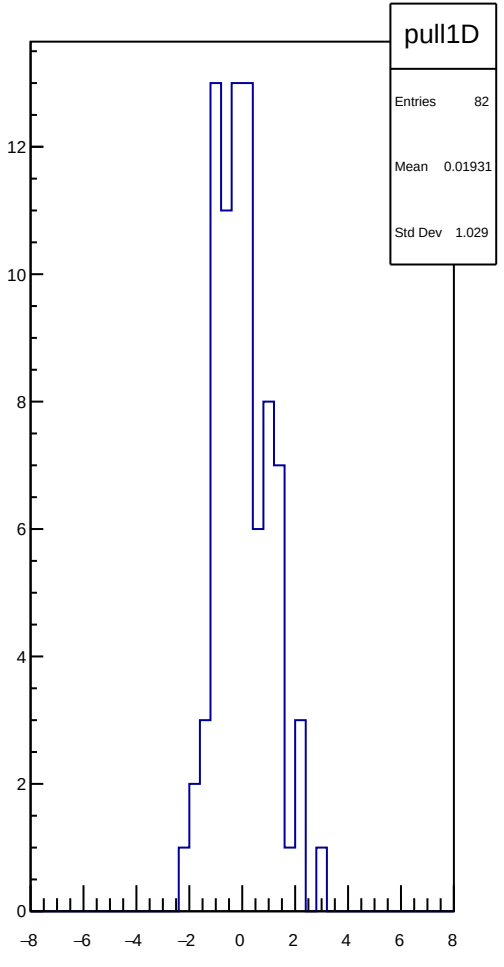

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 11.96 / 81
p0 −42.69 ± 0.3167
pull
Entries 82
Mean 211.8
Std Dev 165.4

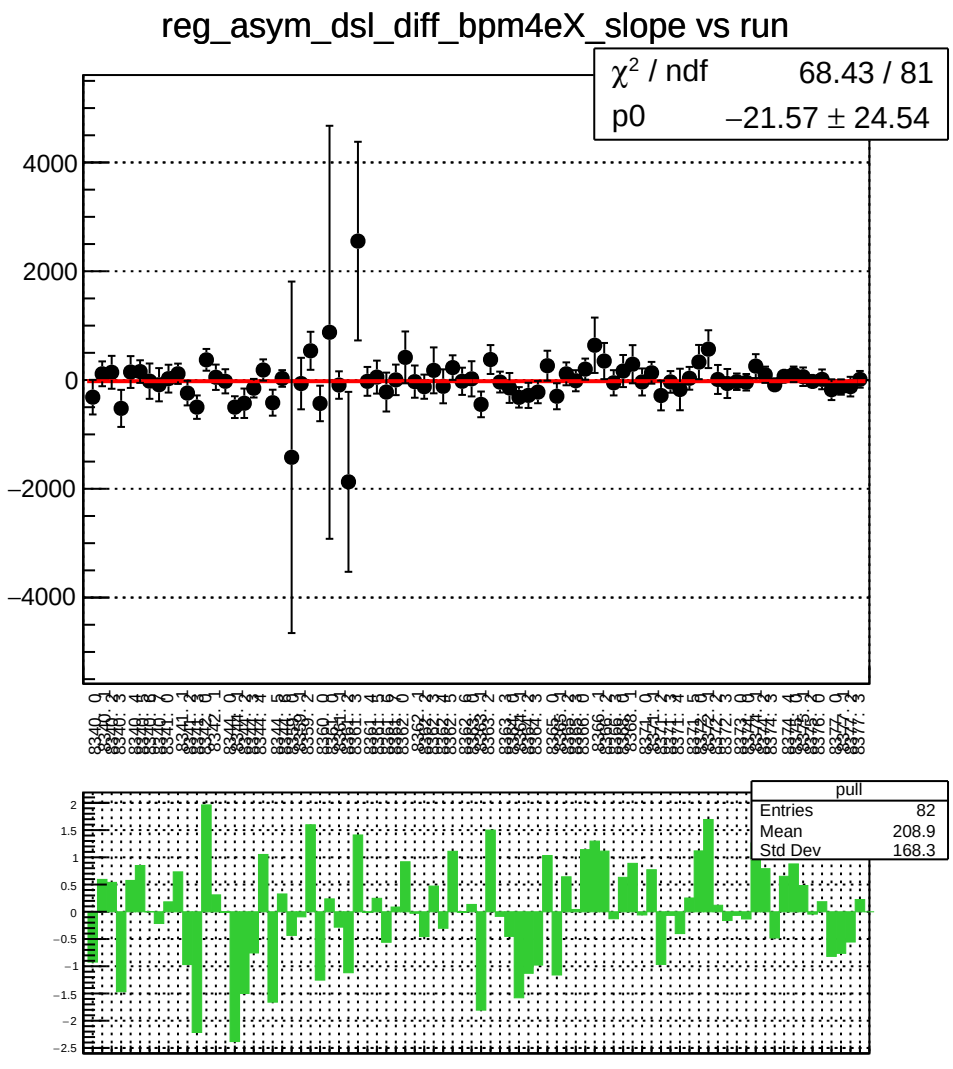

pull1D
Entries 82
Mean −0.01195
Std Dev 0.3818

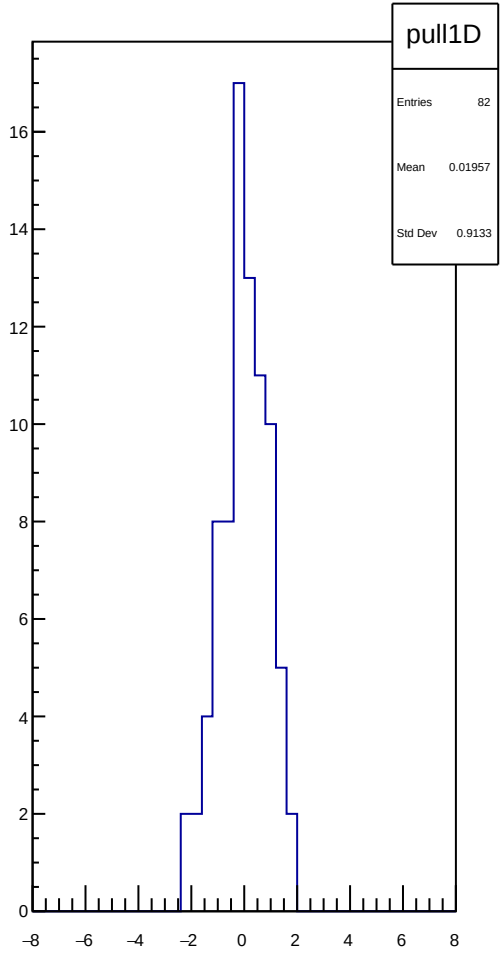

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 65.51 / 81
p0 26.1 ± 21.29
pull
Entries 82
Mean 186.4
Std Dev 145.7

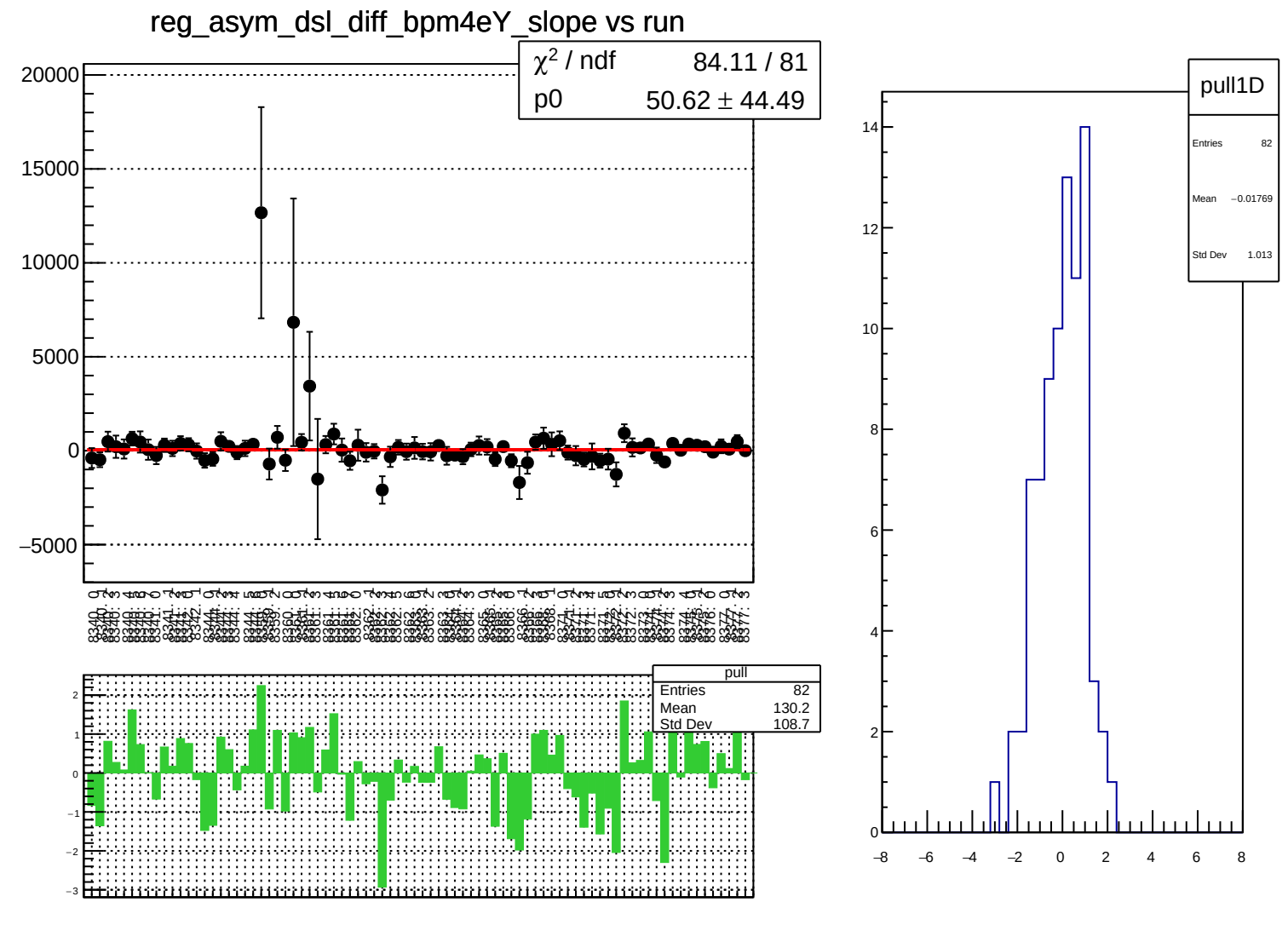

pull1D
Entries 82
Mean −0.0253
Std Dev 0.8934

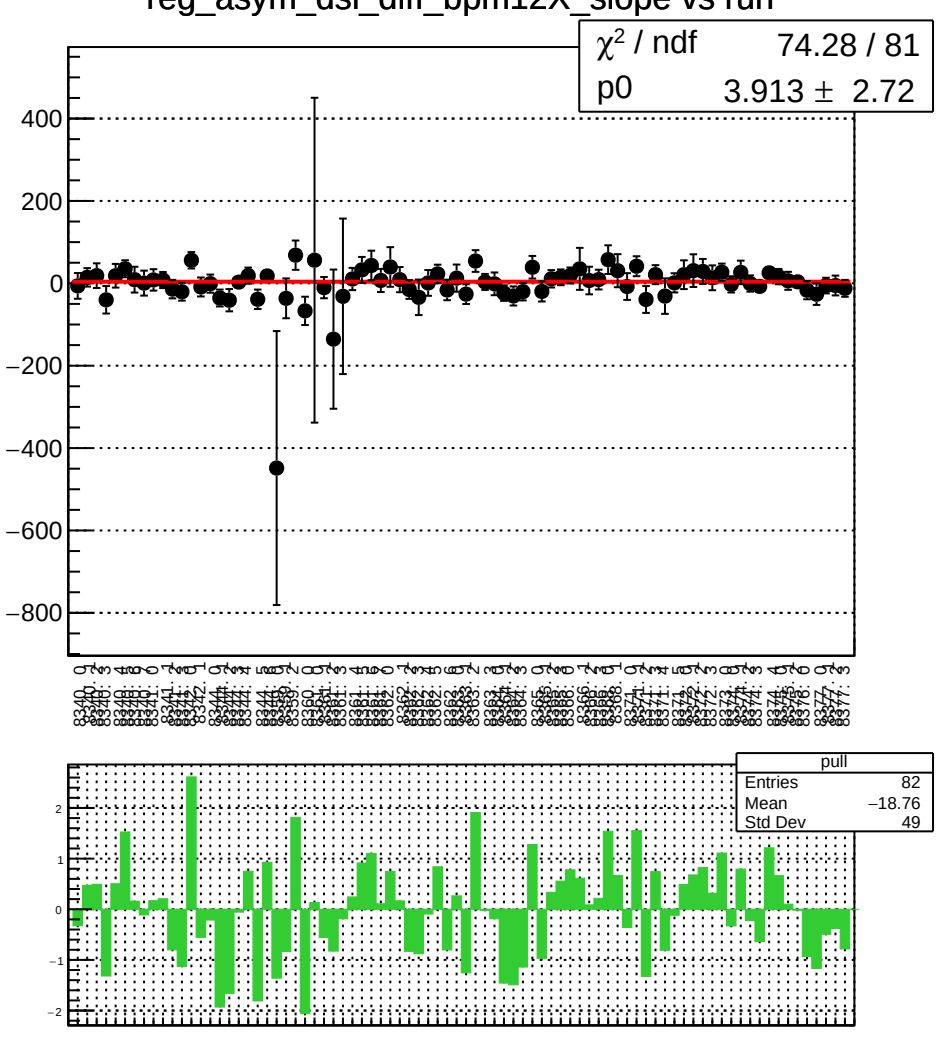

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 86.89 / 81
p0 −51.67 ± 43.09
5000
0
−5000
−10000
−15000
−20000
pull
Entries 82
Mean 97.13
Std Dev 81.11
3
2
1
0
−1
−2

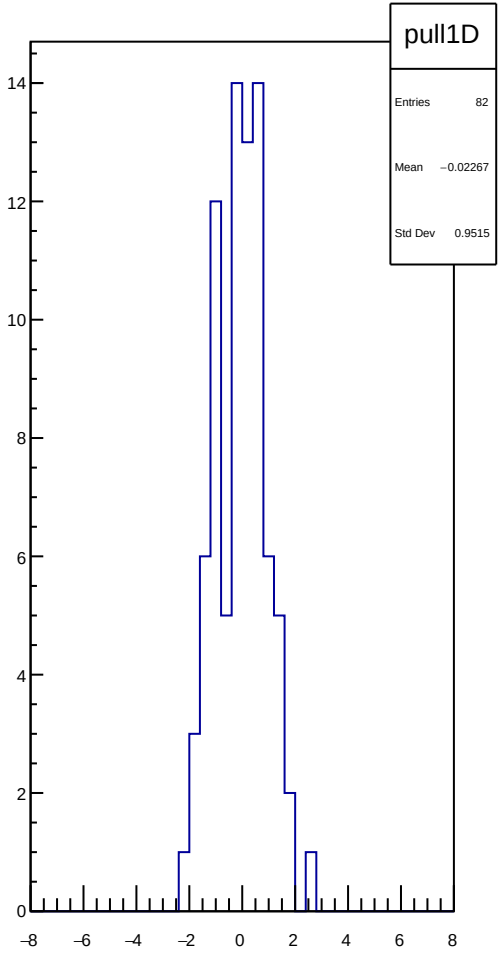

pull1D
Entries 82
Mean 0.01931
Std Dev 1.029
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

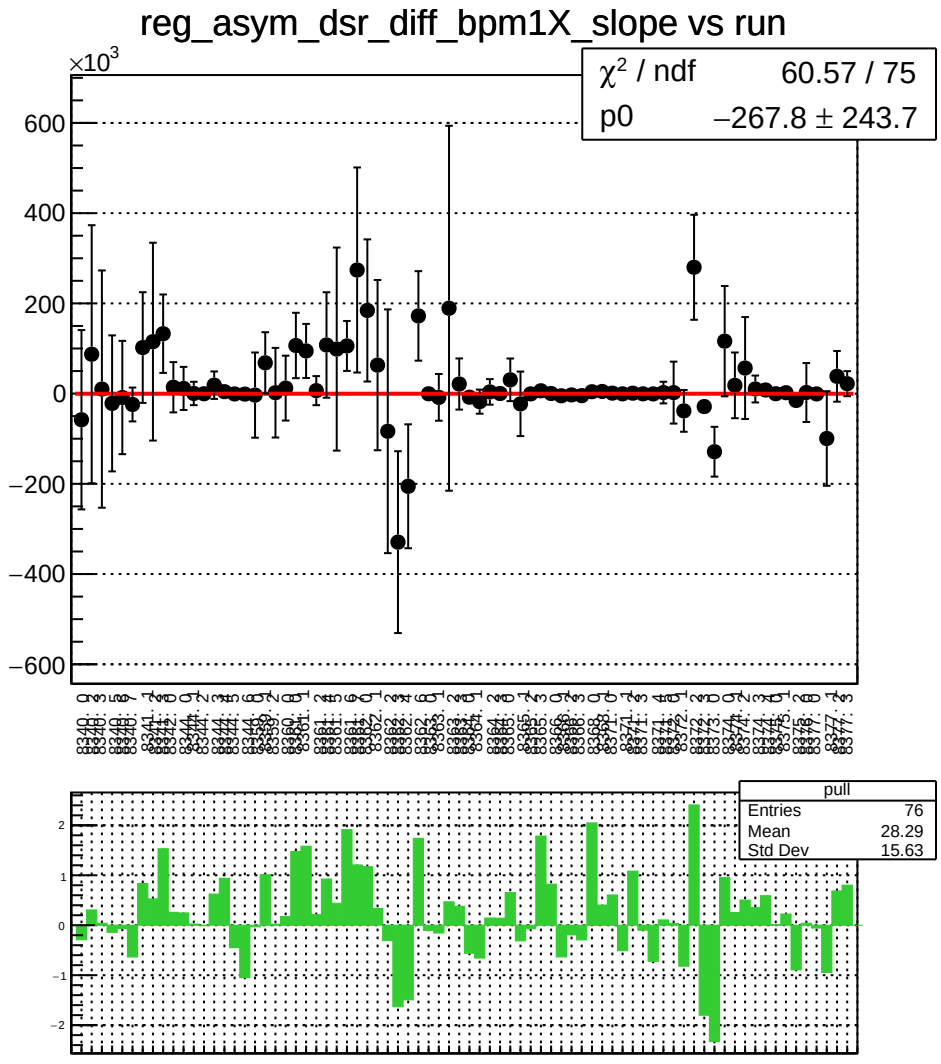

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 68.43 / 81
p0 −21.57 ± 24.54
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 208.9
Std Dev 168.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

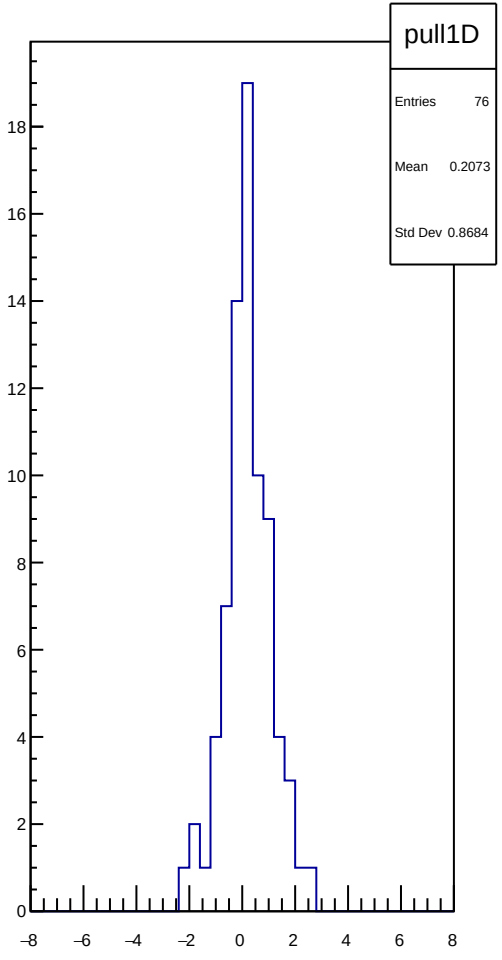

pull1D
Entries 82
Mean 0.01957
Std Dev 0.9133
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

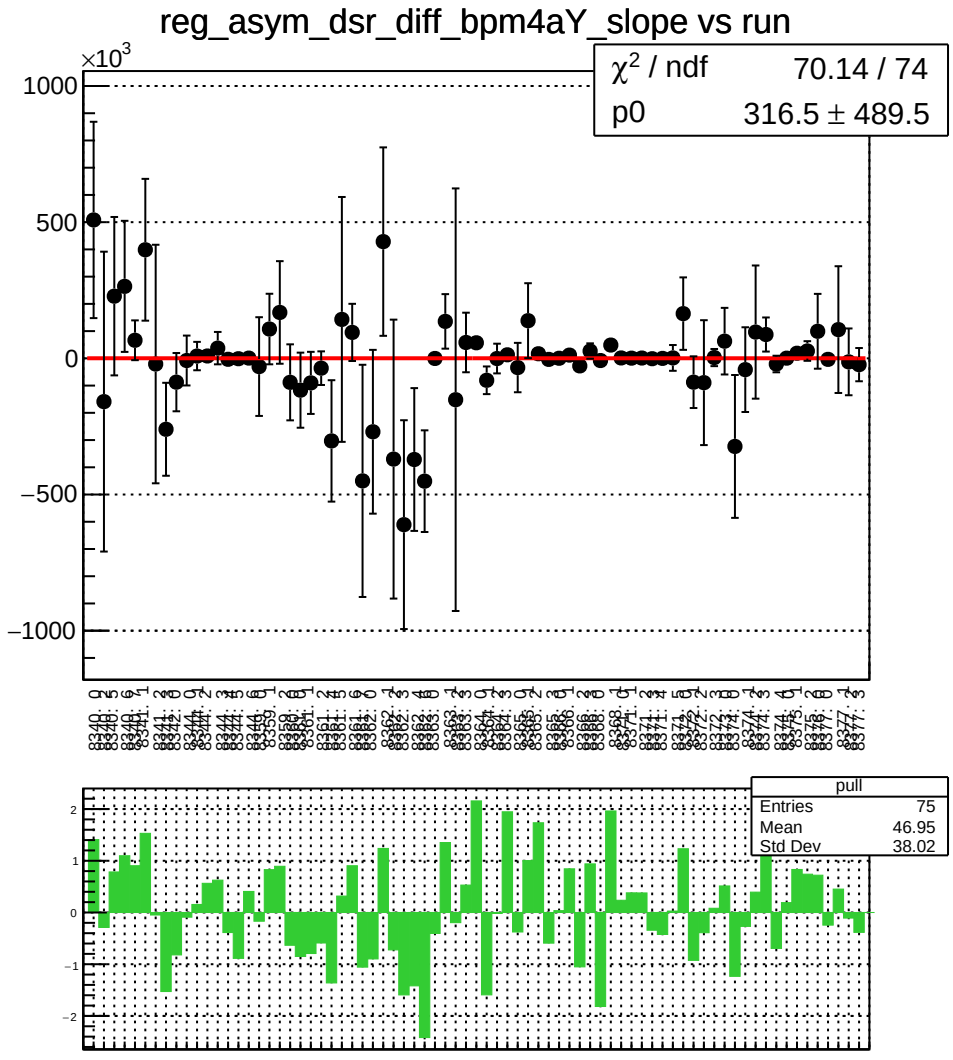

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 84.11 / 81
p0 50.62 ± 44.49
20000
15000
10000
5000
0
−5000
pull
Entries 82
Mean 130.2
Std Dev 108.7
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.01769
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

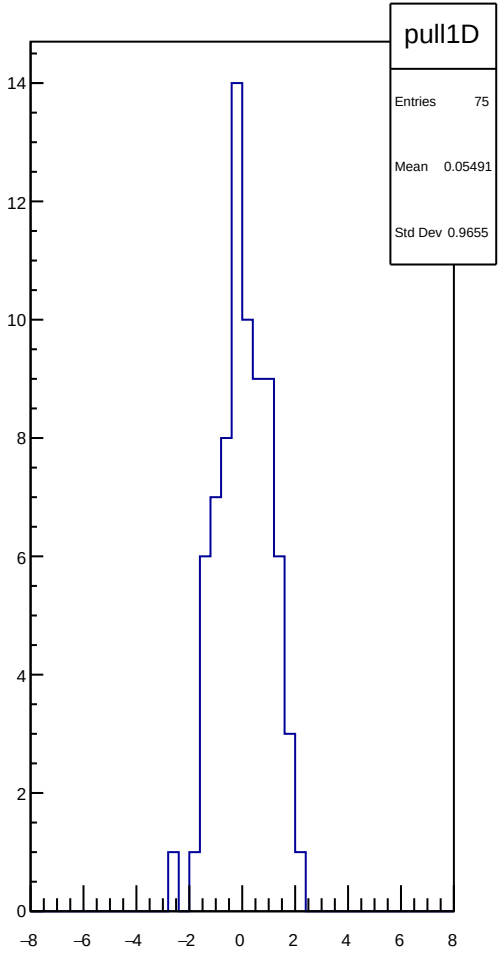

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 74.28 / 81
p0 3.913 ± 2.72
pull
Entries 82
Mean −18.76
Std Dev 49

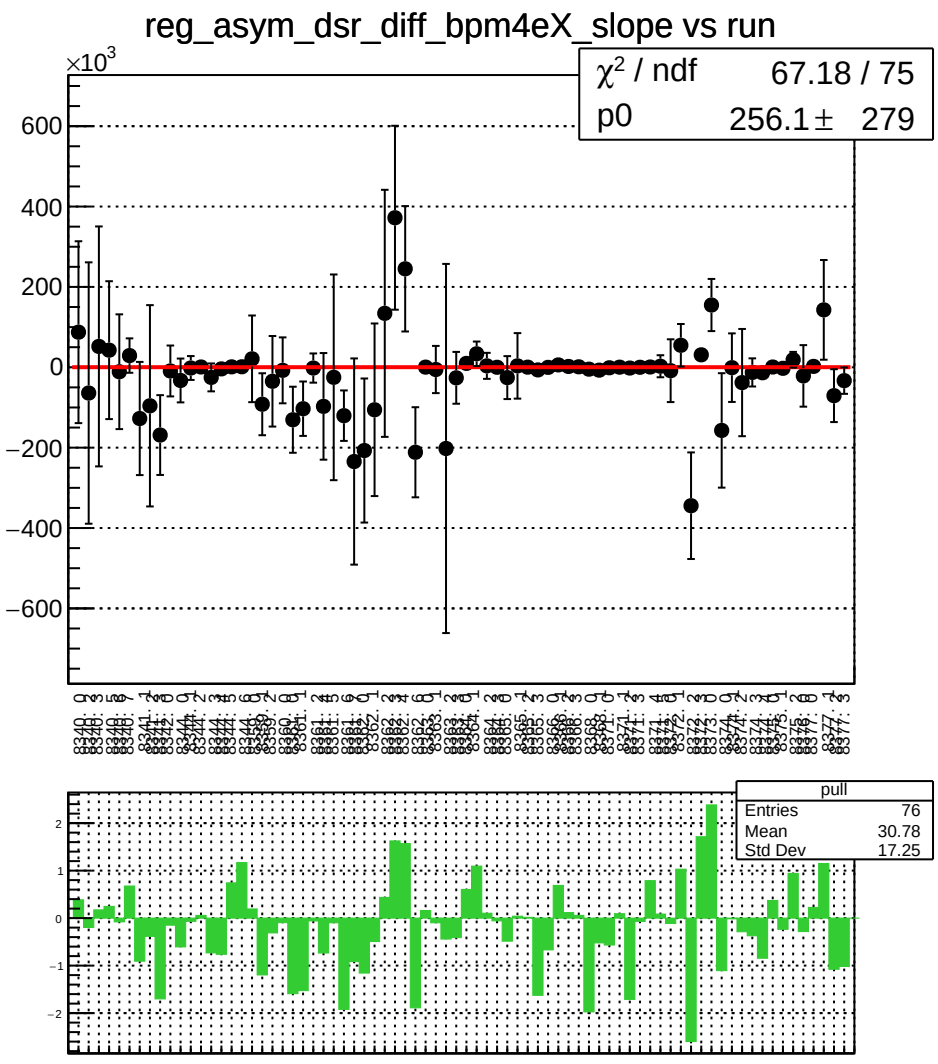

pull1D
Entries 82
Mean −0.02267
Std Dev 0.9515

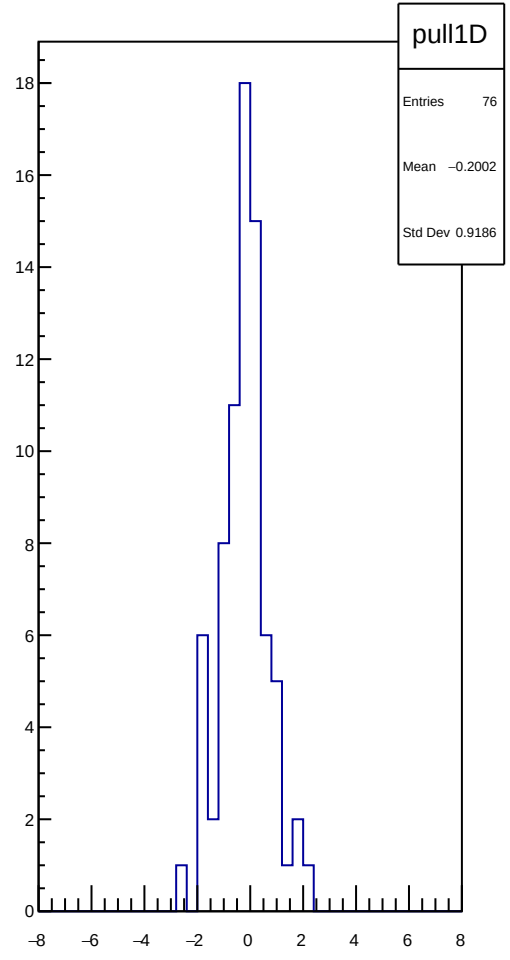

reg_asym_dsr_diff_bpm1X_slope vs run
×10^3
χ² / ndf 60.57 / 75
p0 −267.8 ± 243.7
pull
Entries 76
Mean 28.29
Std Dev 15.63

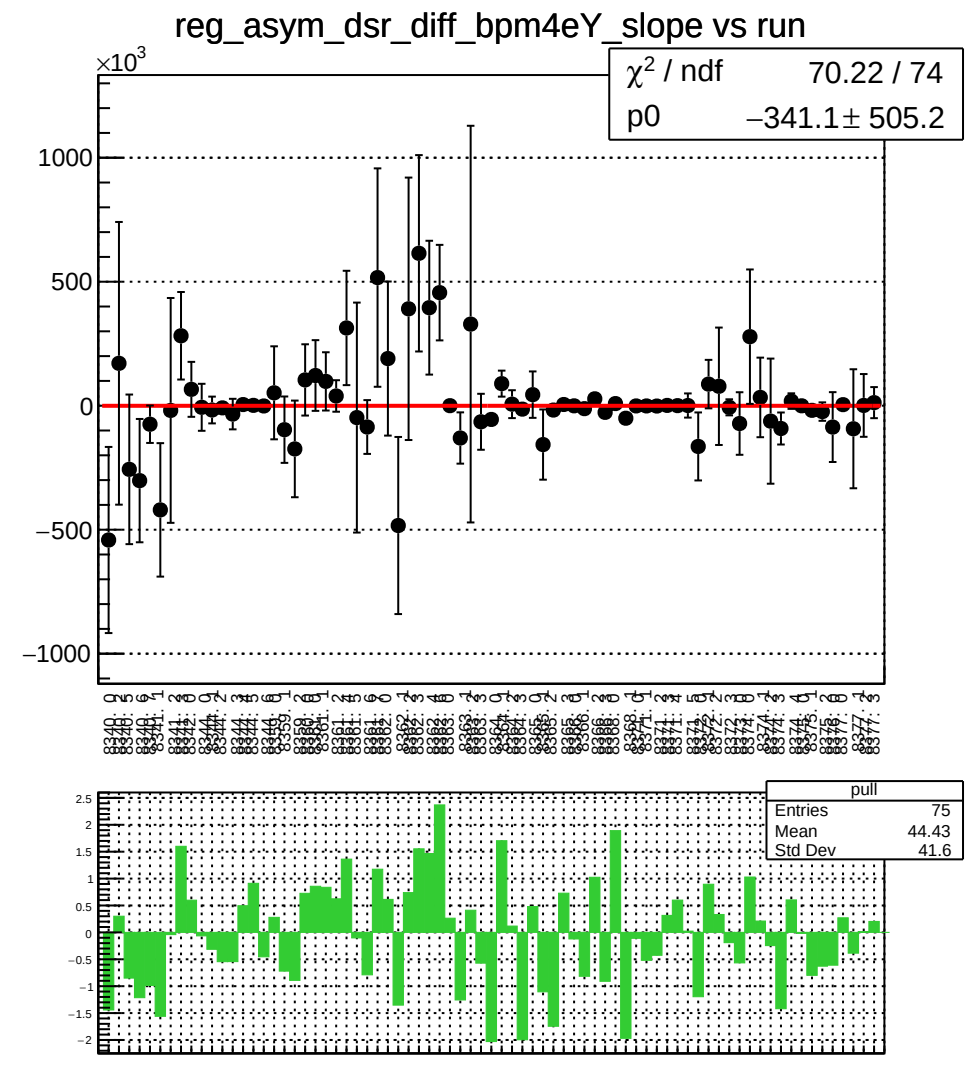

pull1D
Entries 76
Mean 0.2073
Std Dev 0.8684

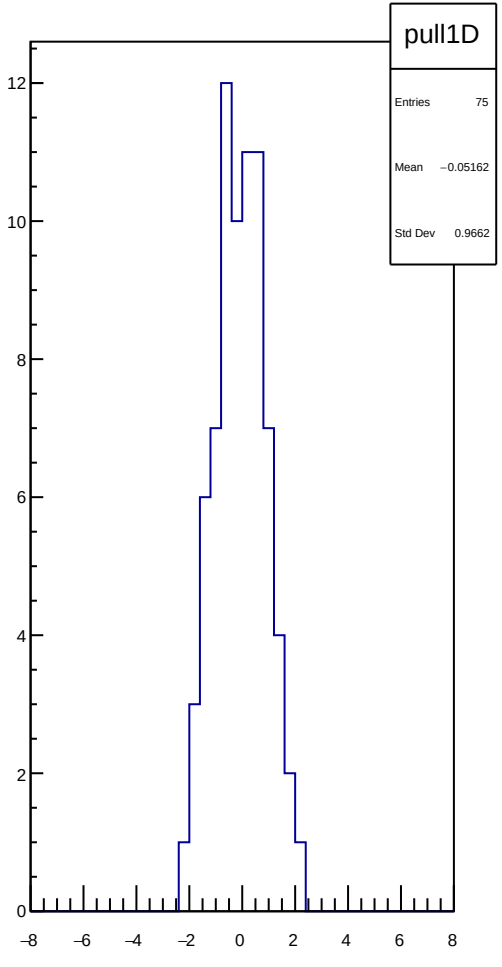

reg_asym_dsr_diff_bpm4aY_slope vs run
×10^3
1000
500
0
−500
−1000
χ² / ndf 70.14 / 74
p0 316.5 ± 489.5
pull
Entries 75
Mean 46.95
Std Dev 38.02
2
1
0
−1
−2

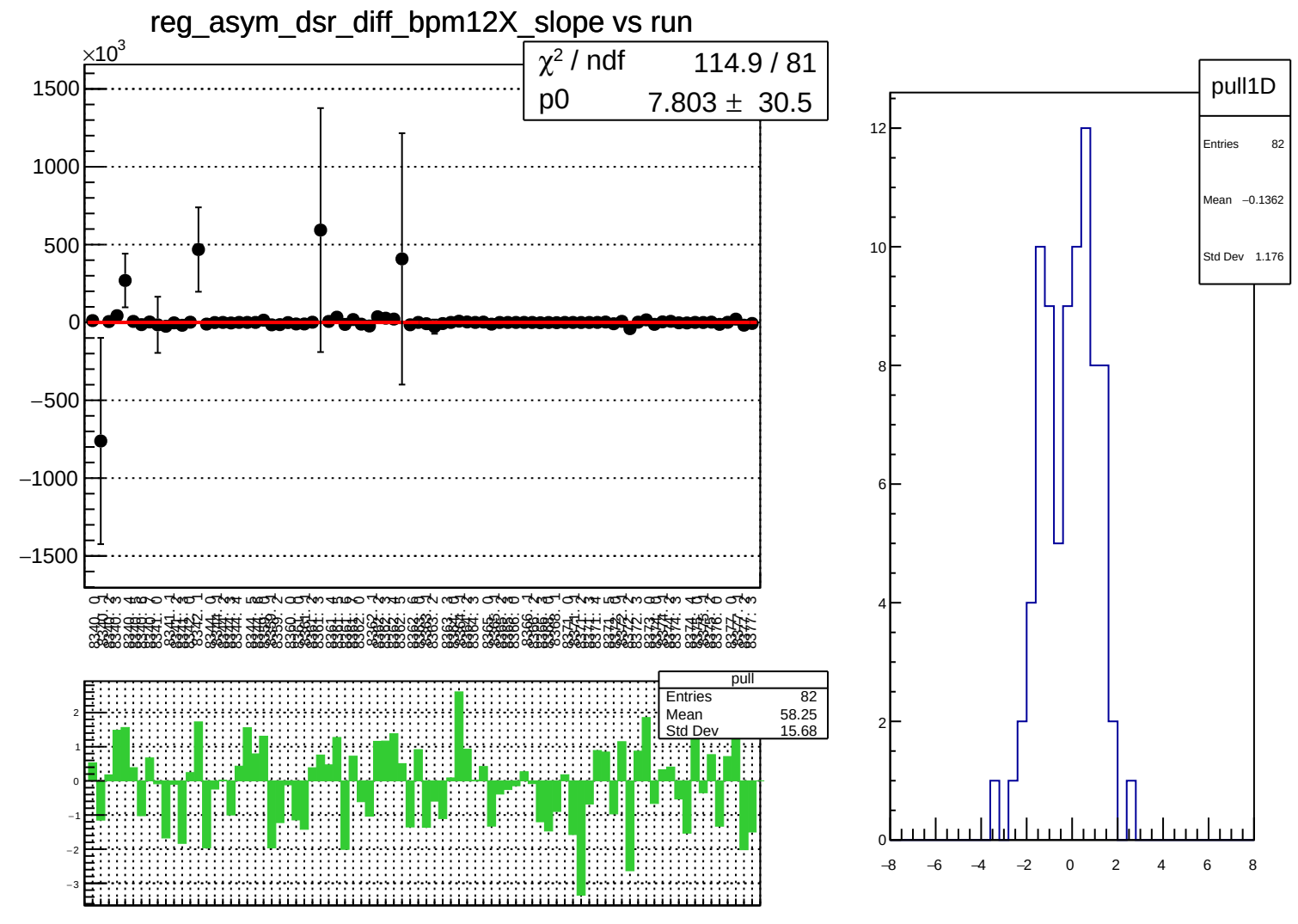

pull1D
Entries 75
Mean 0.05491
Std Dev 0.9655
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

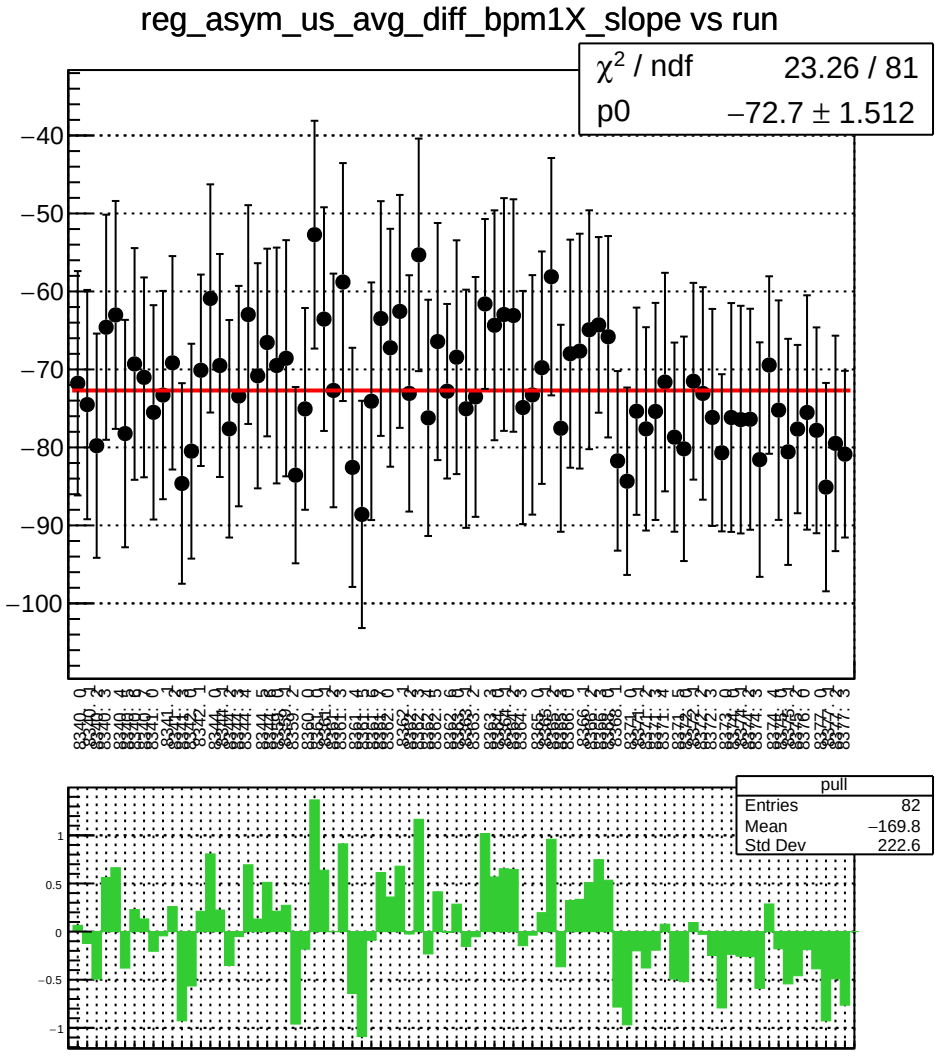

reg_asym_dsr_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 67.18 / 75
p0 256.1 ± 279
600
400
200
0
−200
−400
−600
pull
Entries 76
Mean 30.78
Std Dev 17.25
2
1
0
−1
−2

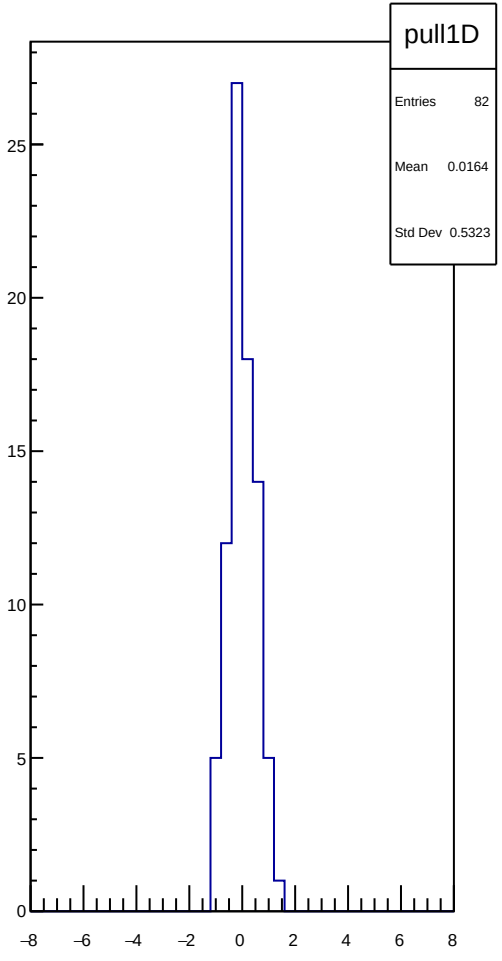

pull1D
Entries 76
Mean −0.2002
Std Dev 0.9186
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

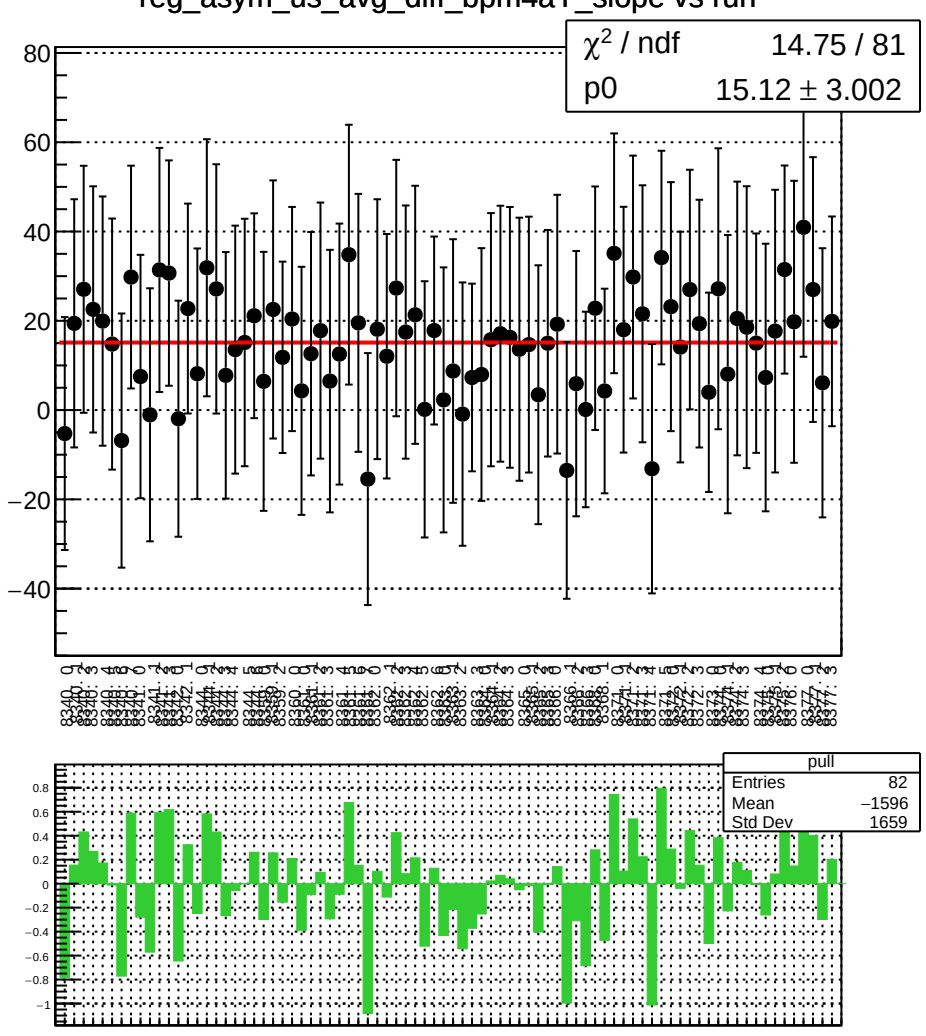

reg_asym_dsr_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 70.22 / 74
p0 −341.1 ± 505.2
1000
500
0
−500
−1000
pull
Entries 75
Mean 44.43
Std Dev 41.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

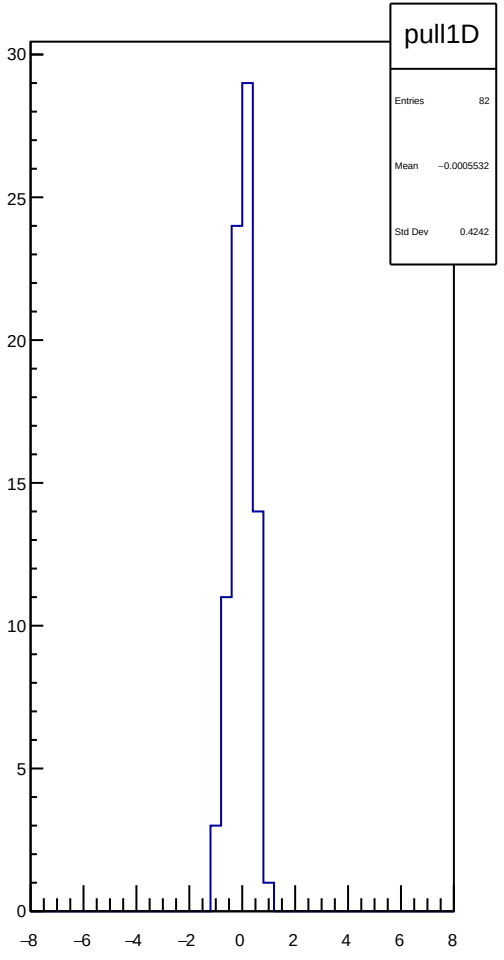

pull1D
Entries 75
Mean −0.05162
Std Dev 0.9662
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

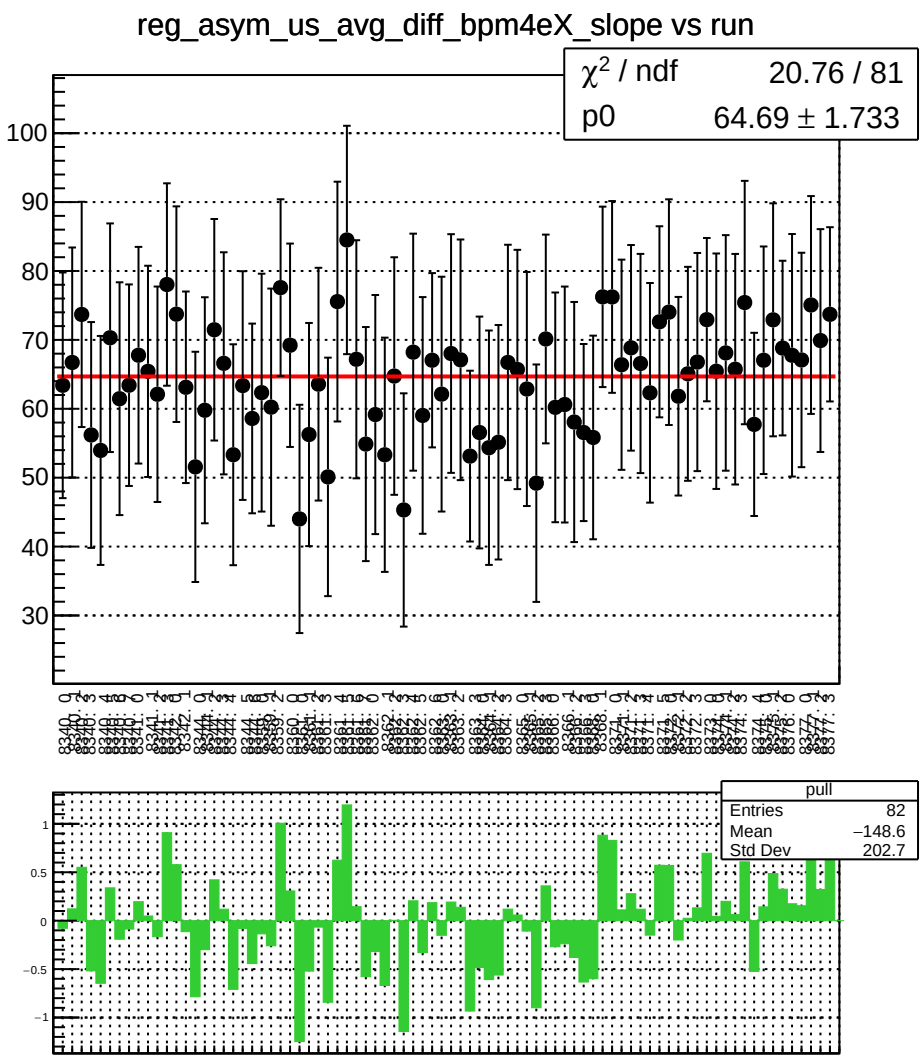

reg_asym_dsr_diff_bpm12X_slope vs run
×10^3
χ^2 / ndf 114.9 / 81
p0 7.803 ± 30.5
1500
1000
500
0
−500
−1000
−1500
pull
Entries 82
Mean 58.25
Std Dev 15.68
pull1D
Entries 82
Mean −0.1362
Std Dev 1.176

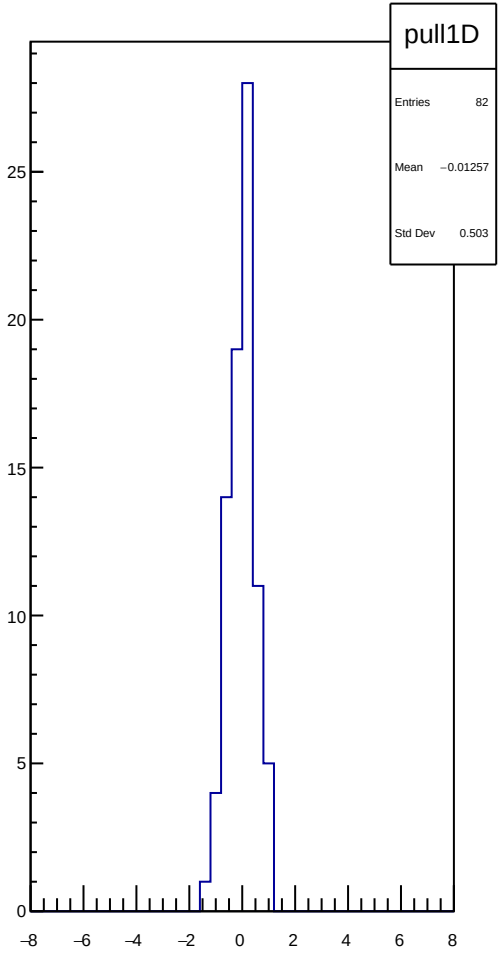

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 23.26 / 81
p0 −72.7 ± 1.512
pull
Entries 82
Mean −169.8
Std Dev 222.6

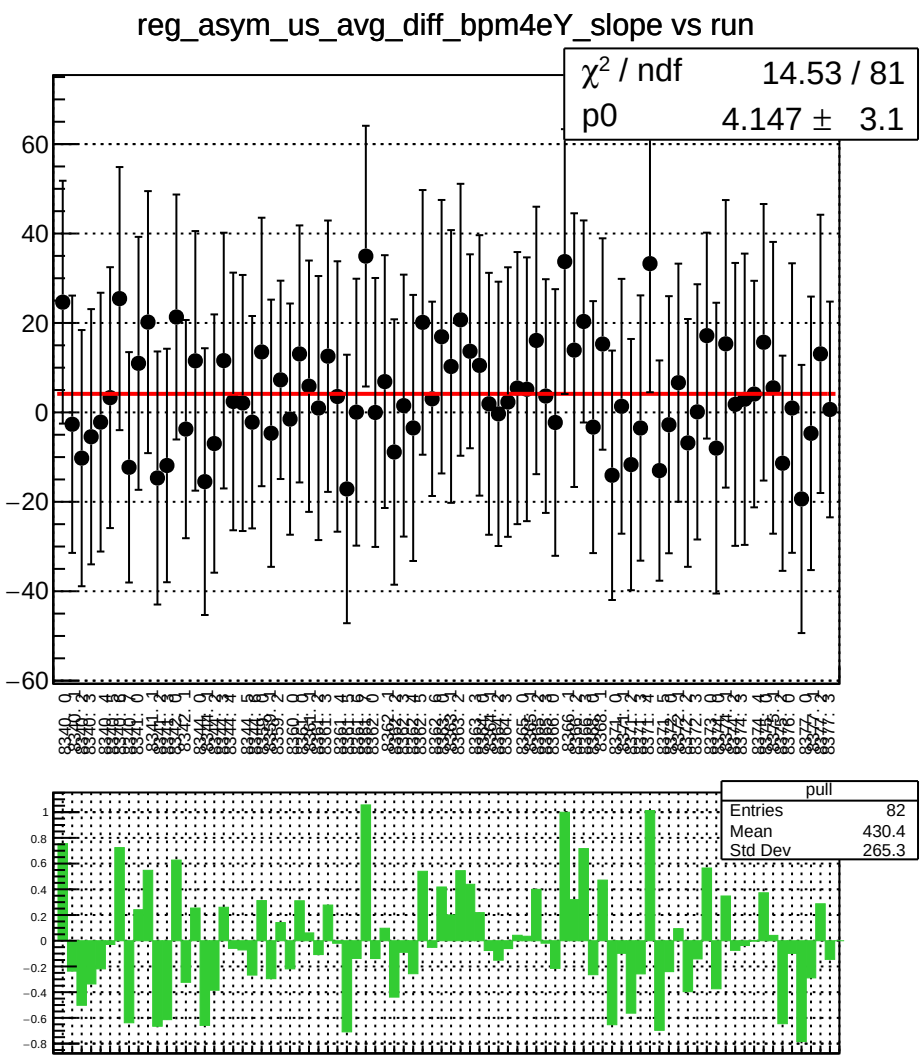

pull1D
Entries 82
Mean 0.0164
Std Dev 0.5323

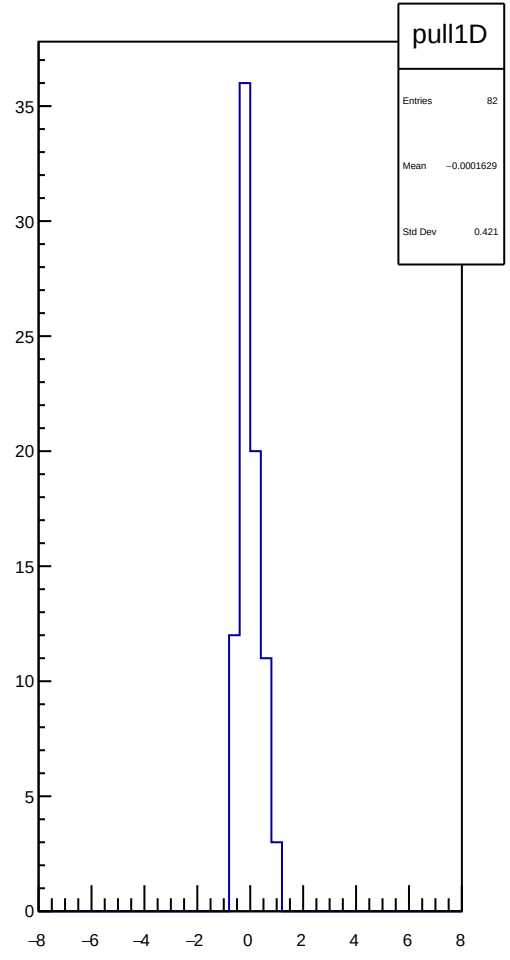

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.75 / 81
p0 15.12 ± 3.002
pull
Entries 82
Mean −1596
Std Dev 1659

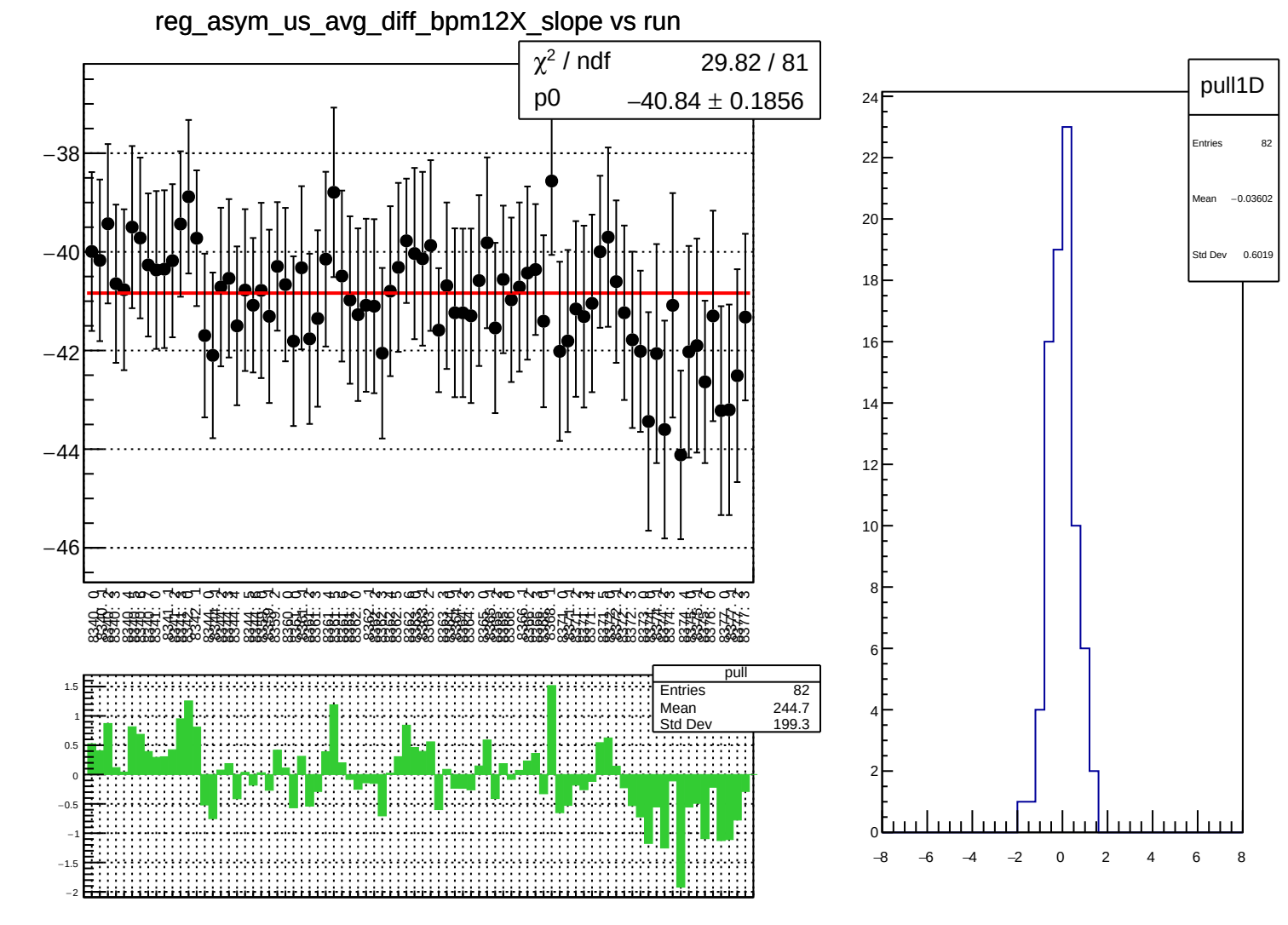

pull1D
Entries 82
Mean −0.0005532
Std Dev 0.4242

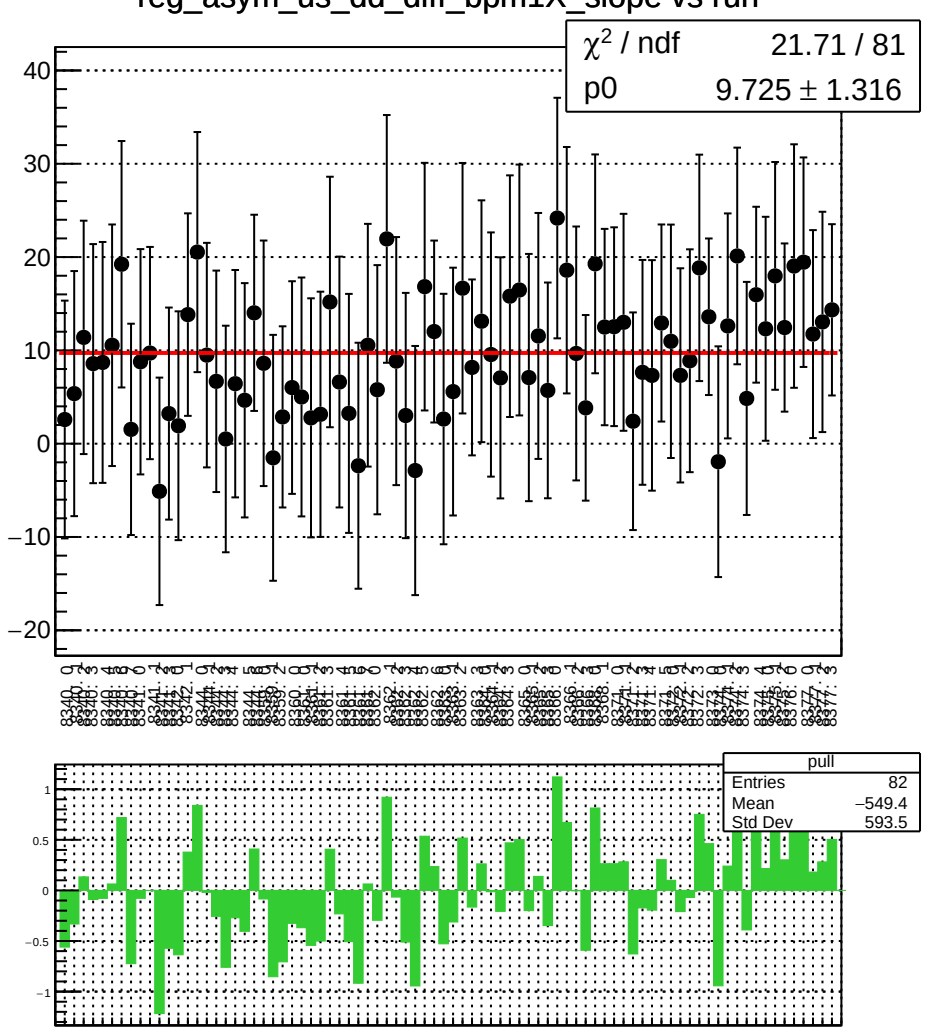

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.76 / 81
p0 64.69 ± 1.733
pull
Entries 82
Mean −148.6
Std Dev 202.7

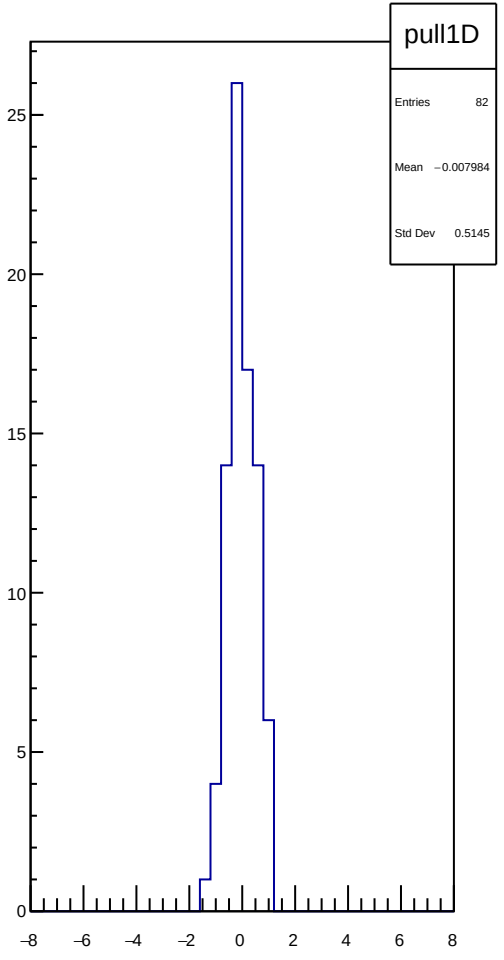

pull1D
Entries 82
Mean −0.01257
Std Dev 0.503

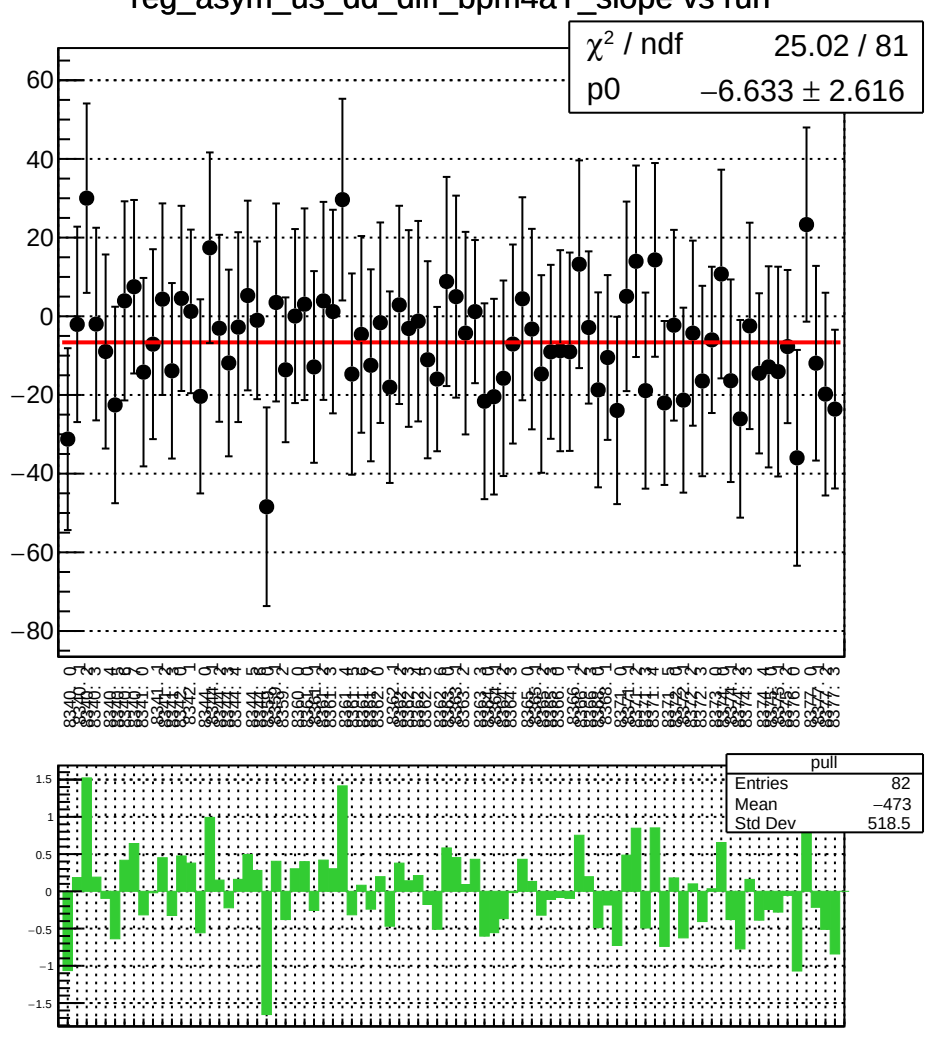

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.53 / 81
p0 4.147 ± 3.1
pull
Entries 82
Mean 430.4
Std Dev 265.3

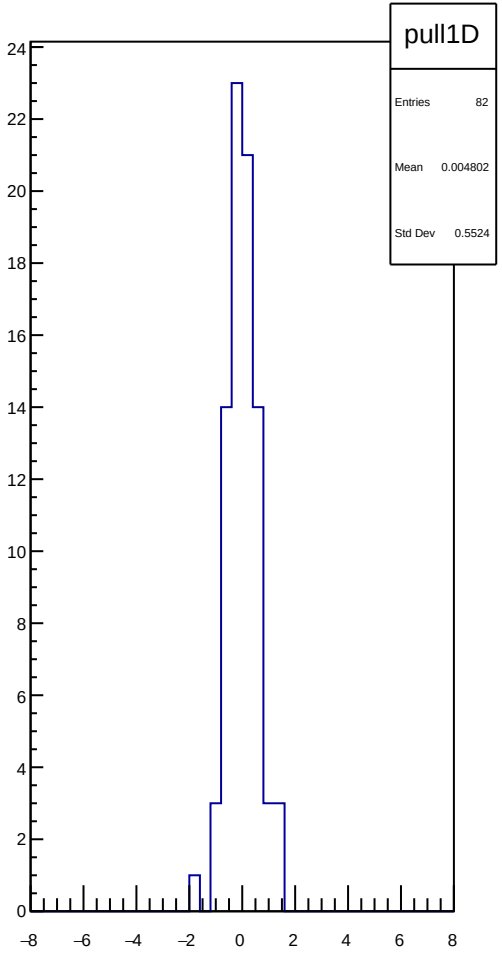

pull1D
Entries 82
Mean −0.0001629
Std Dev 0.421

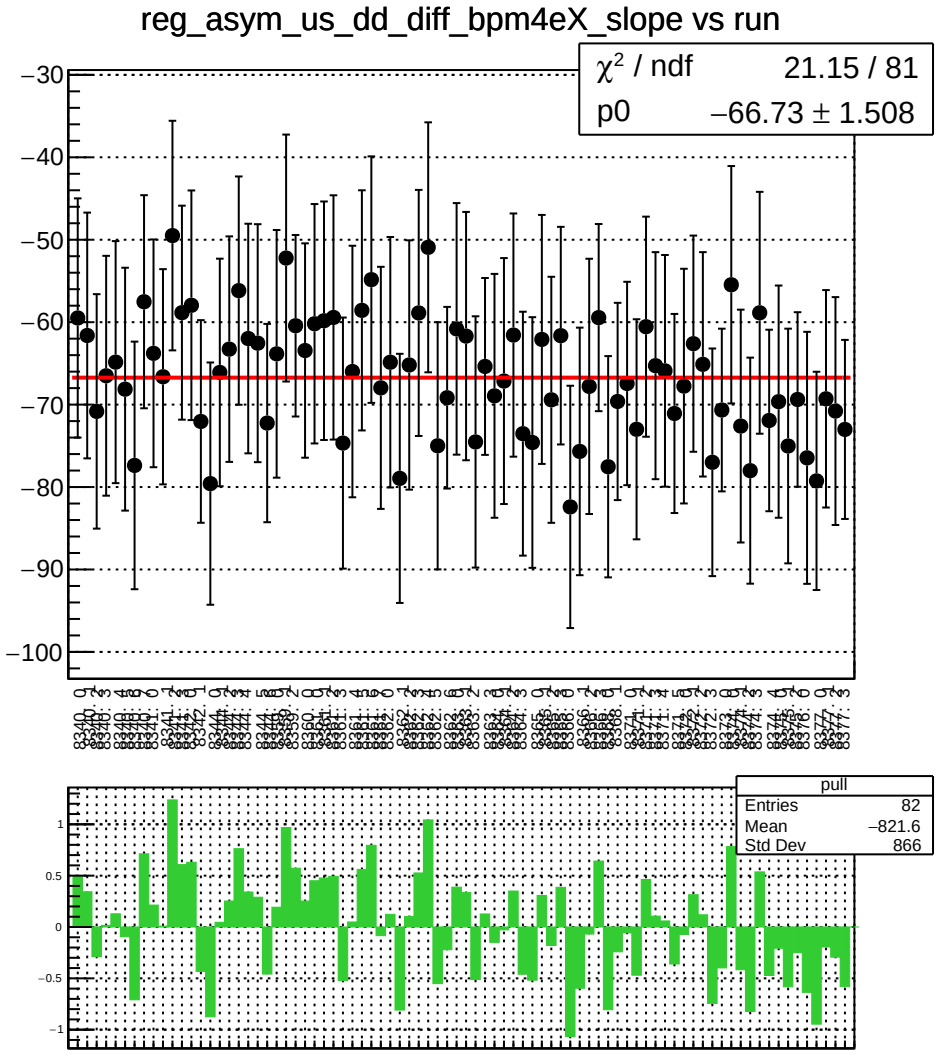

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 29.82 / 81
p0 −40.84 ± 0.1856
pull
Entries 82
Mean 244.7
Std Dev 199.3
pull1D
Entries 82
Mean −0.03602
Std Dev 0.6019

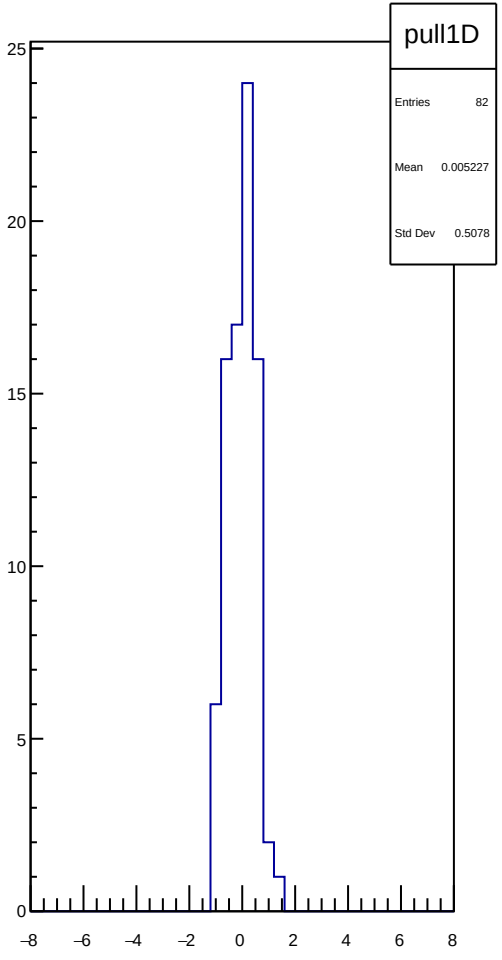

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 21.71 / 81
p0 9.725 ± 1.316
pull
Entries 82
Mean −549.4
Std Dev 593.5

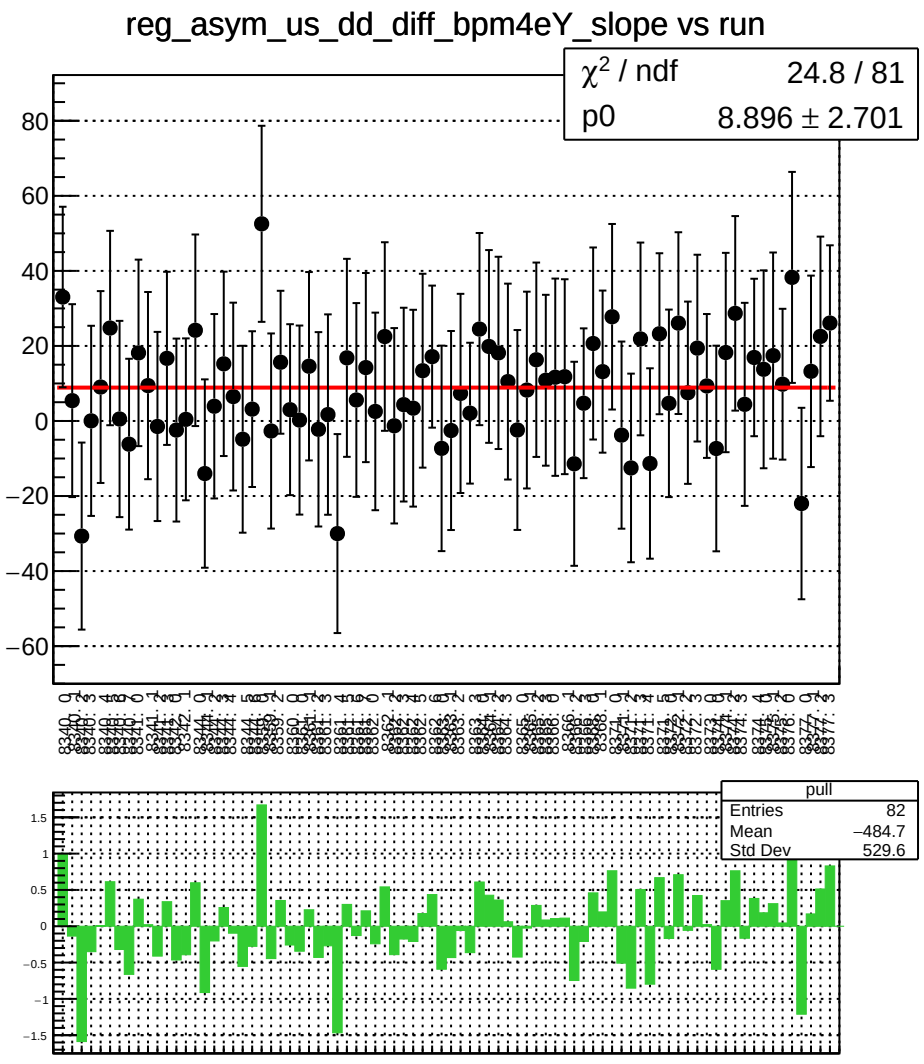

pull1D
Entries 82
Mean −0.007984
Std Dev 0.5145

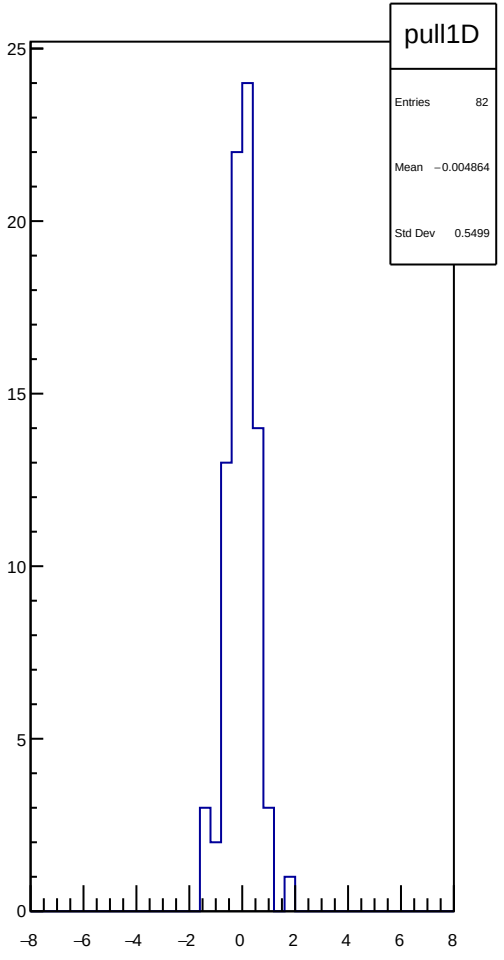

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.02 / 81
p0 −6.633 ± 2.616
pull
Entries 82
Mean −473
Std Dev 518.5

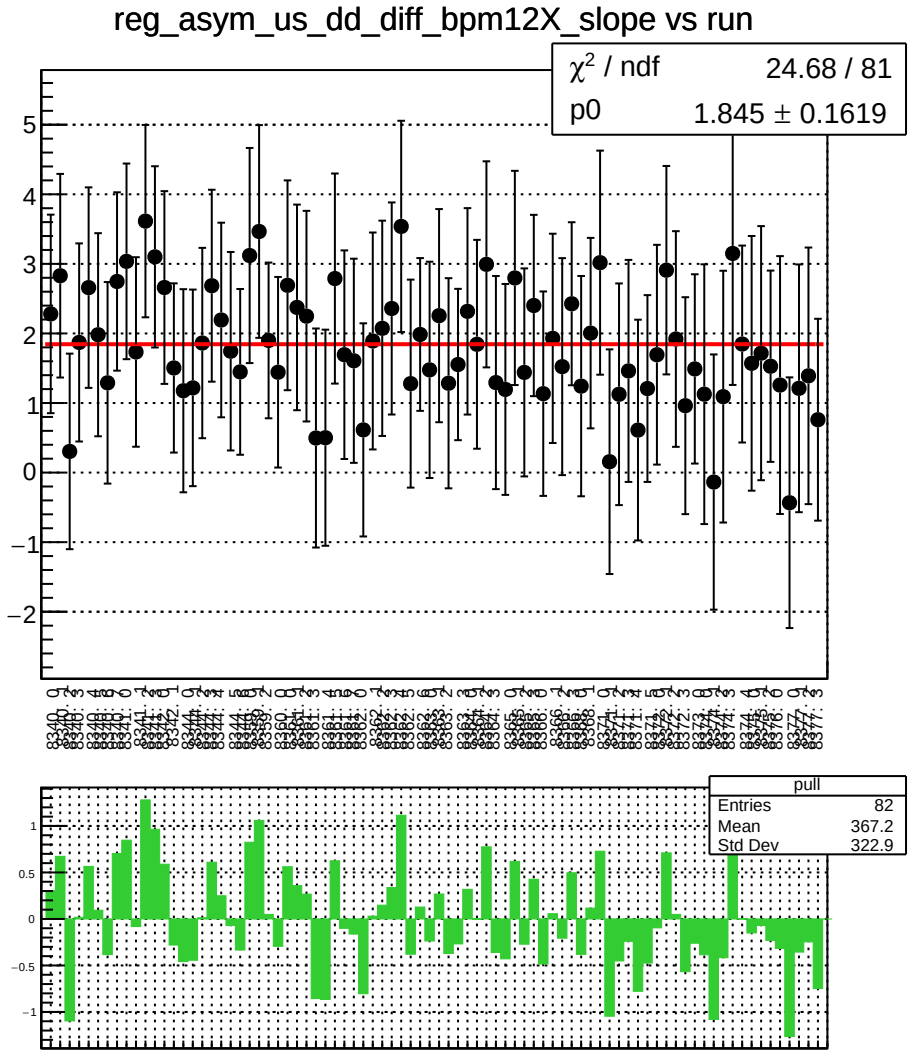

pull1D
Entries 82
Mean 0.004802
Std Dev 0.5524

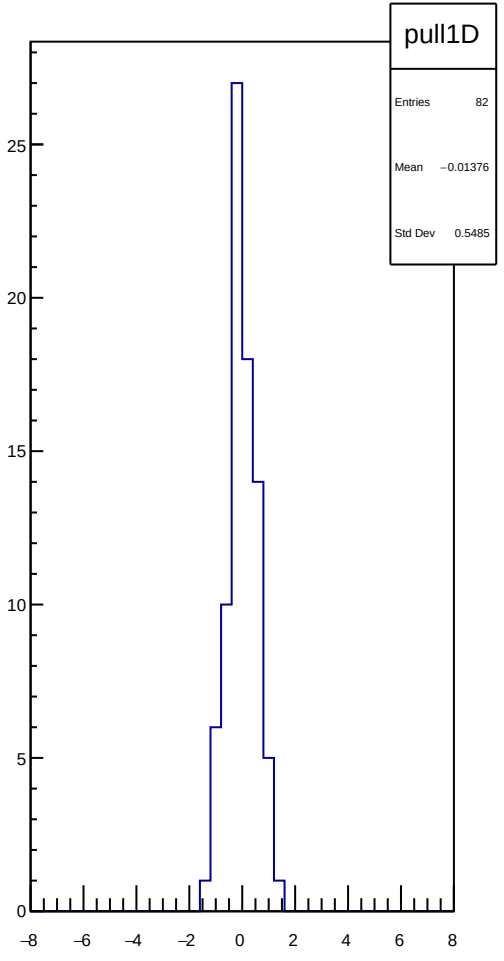

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.15 / 81
p0 −66.73 ± 1.508
pull
Entries 82
Mean −821.6
Std Dev 866

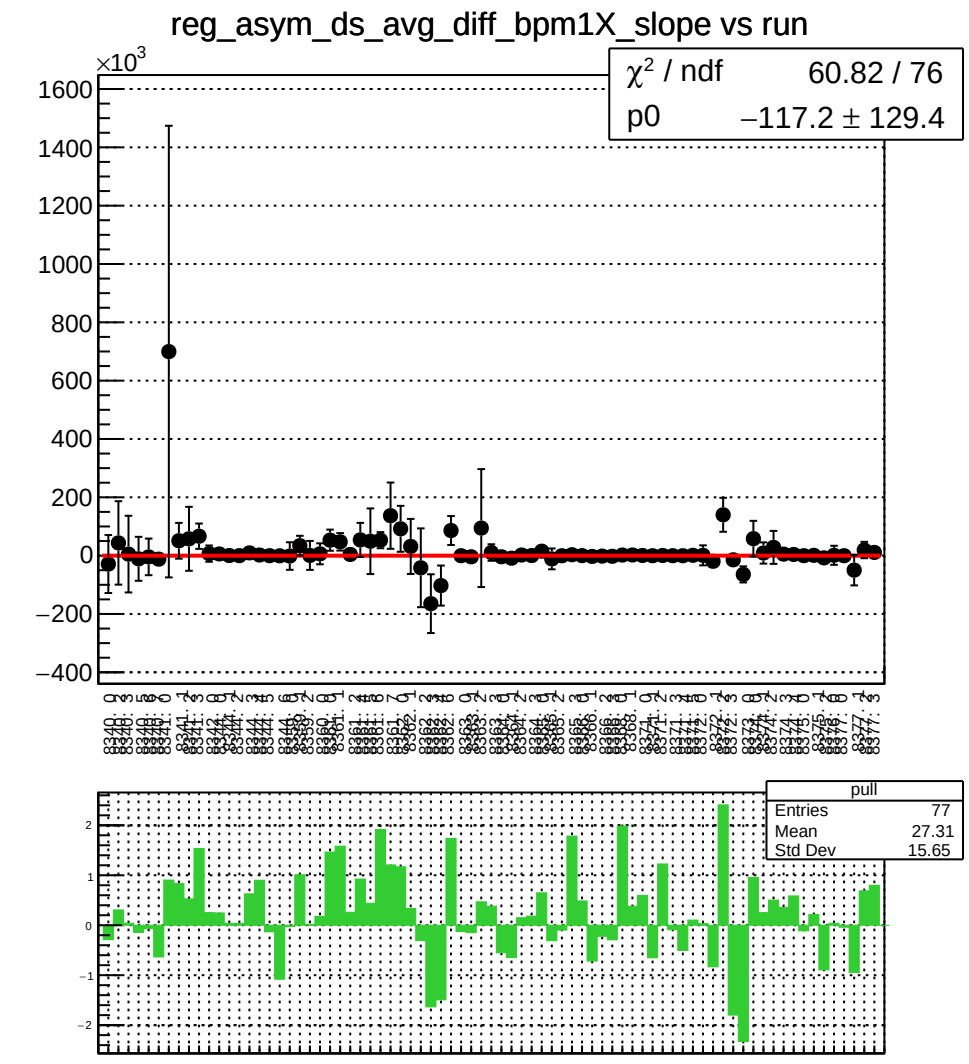

pull1D
Entries 82
Mean 0.005227
Std Dev 0.5078

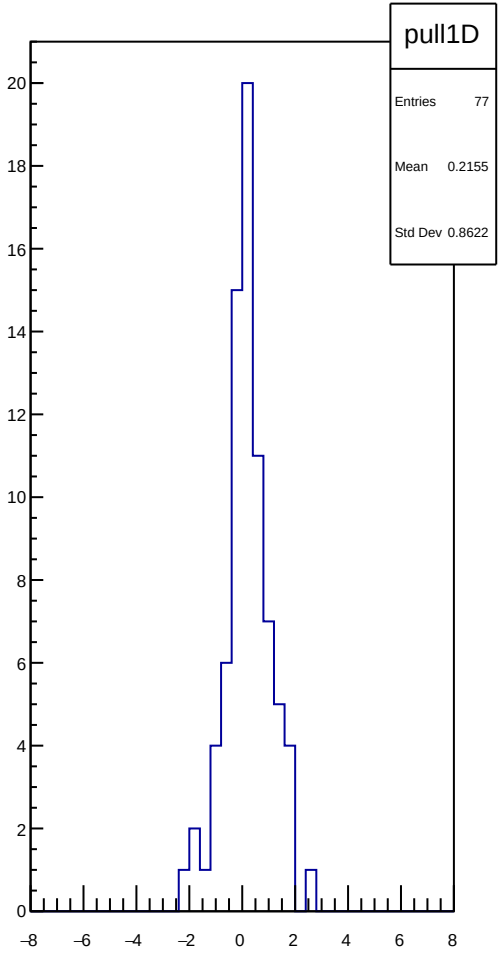

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.8 / 81
p0 8.896 ± 2.701
pull
Entries 82
Mean −484.7
Std Dev 529.6

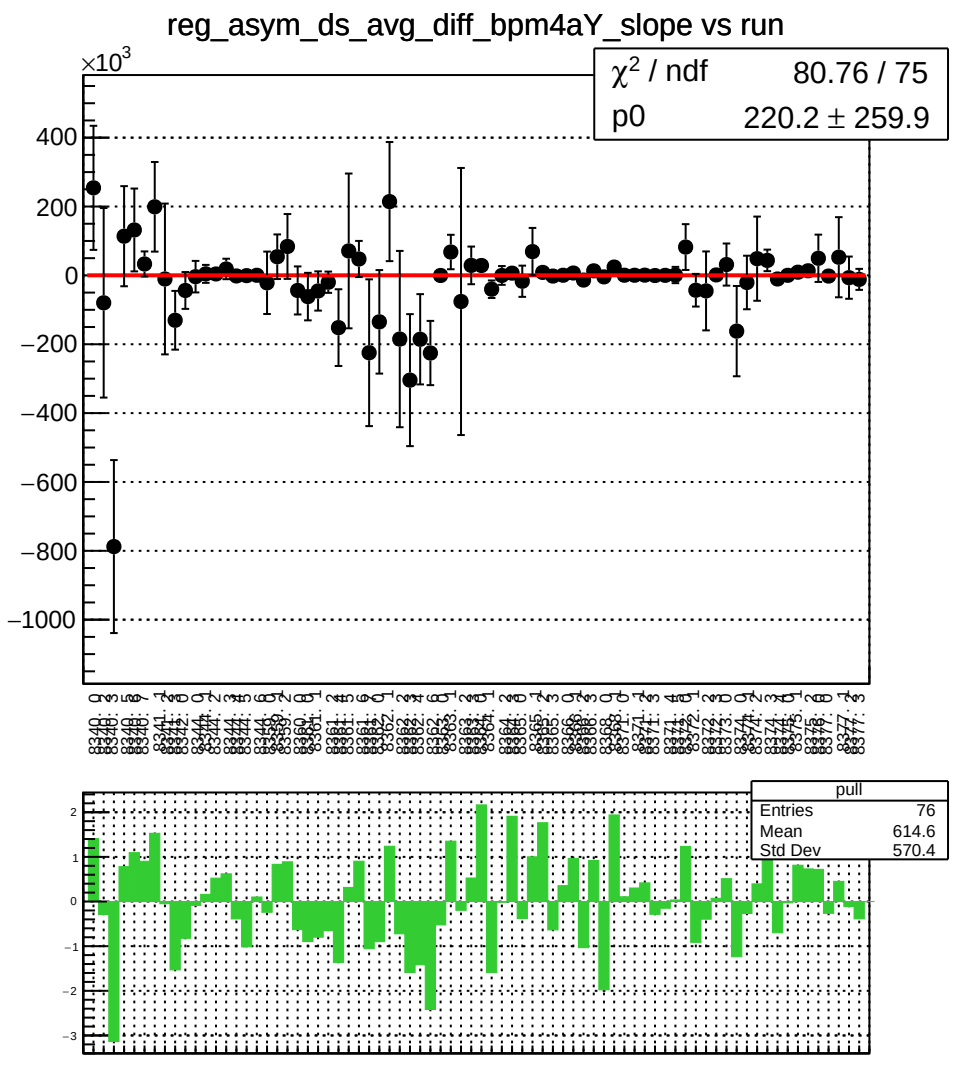

pull1D
Entries 82
Mean −0.004864
Std Dev 0.5499

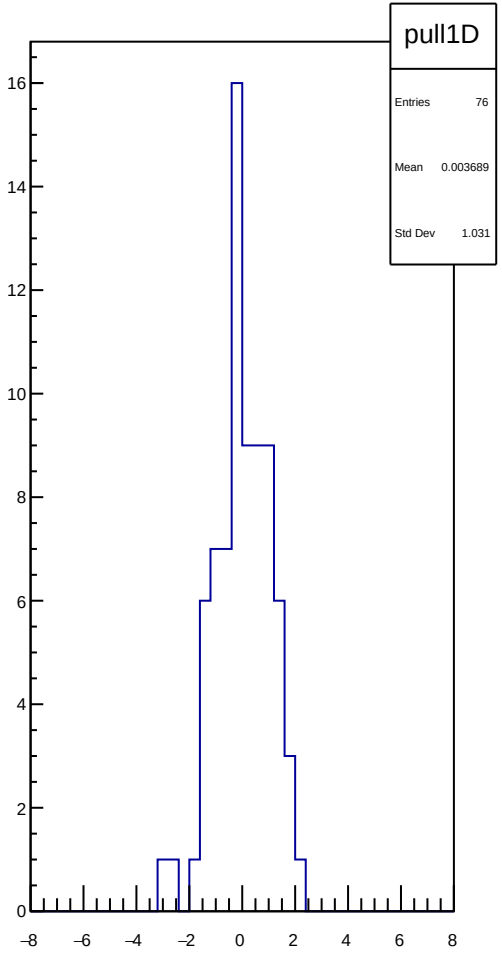

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 24.68 / 81
p0 1.845 ± 0.1619
pull
Entries 82
Mean 367.2
Std Dev 322.9

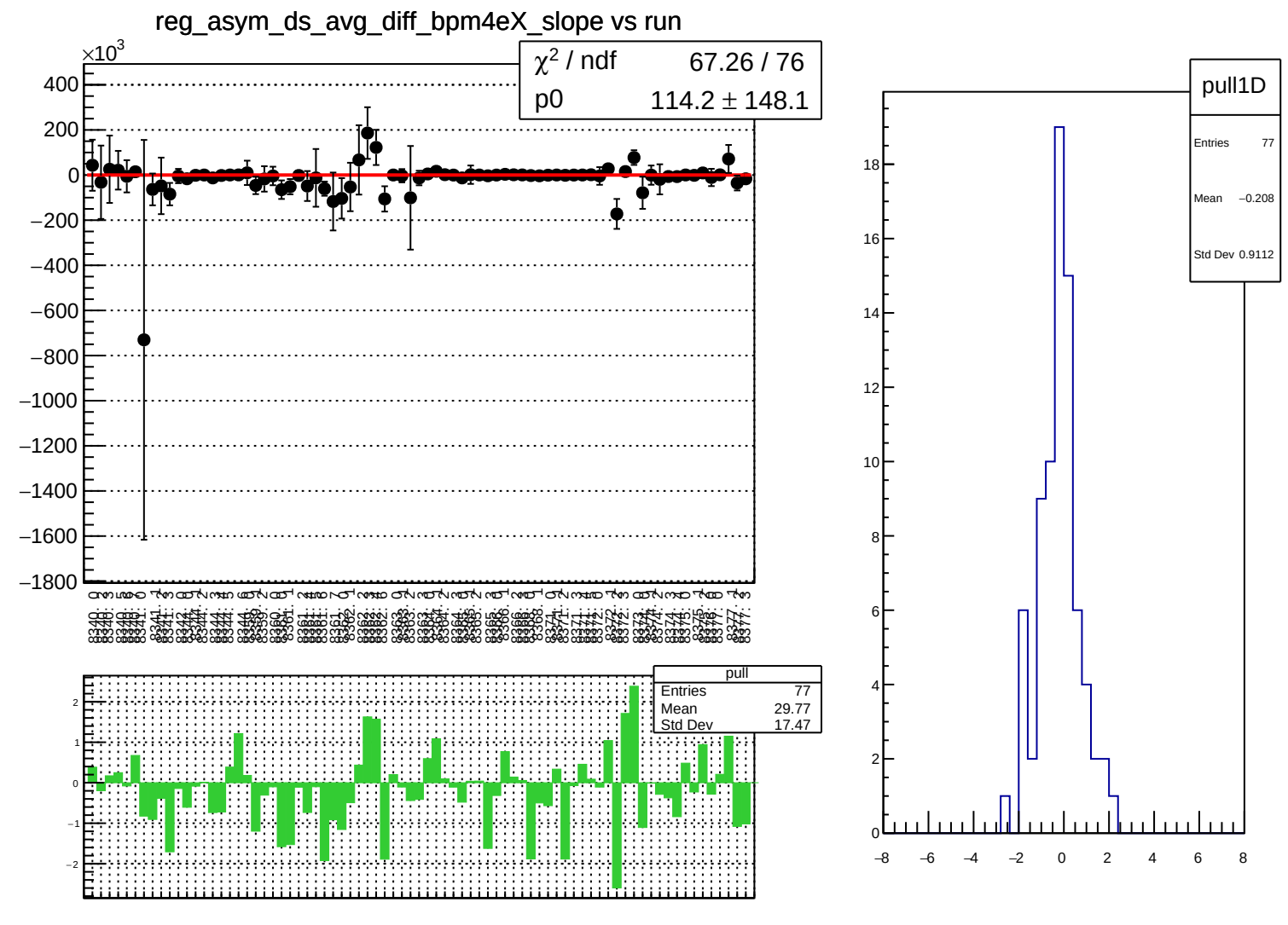

pull1D
Entries 82
Mean −0.01376
Std Dev 0.5485

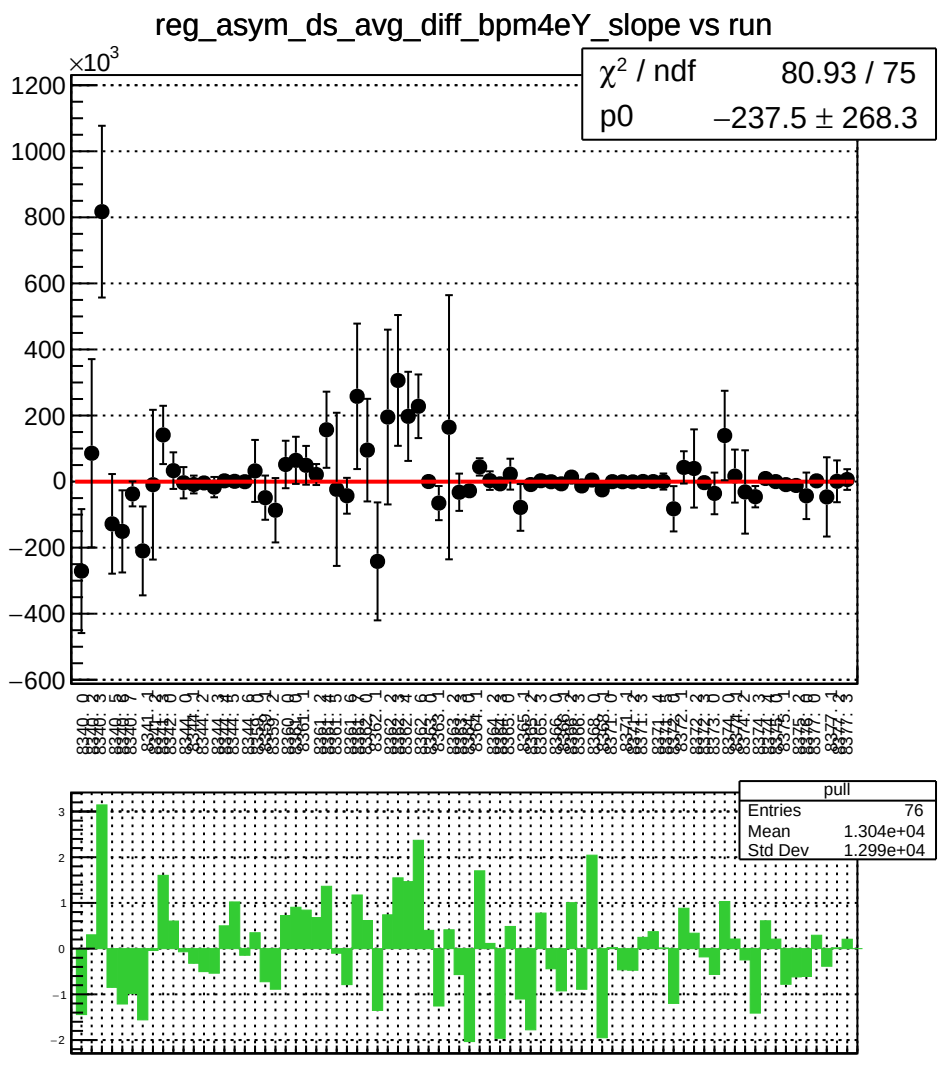

reg_asym_ds_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 60.82 / 76
p0 −117.2 ± 129.4
pull
Entries 77
Mean 27.31
Std Dev 15.65

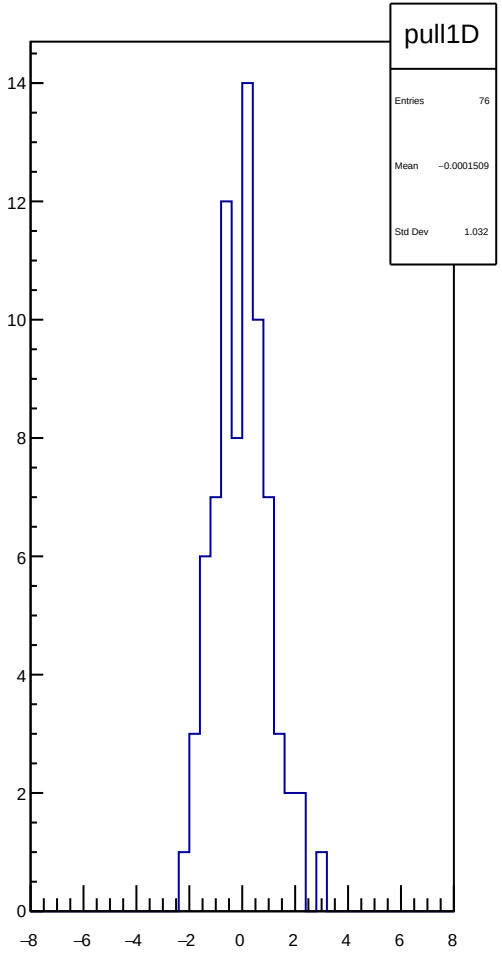

pull1D
Entries 77
Mean 0.2155
Std Dev 0.8622

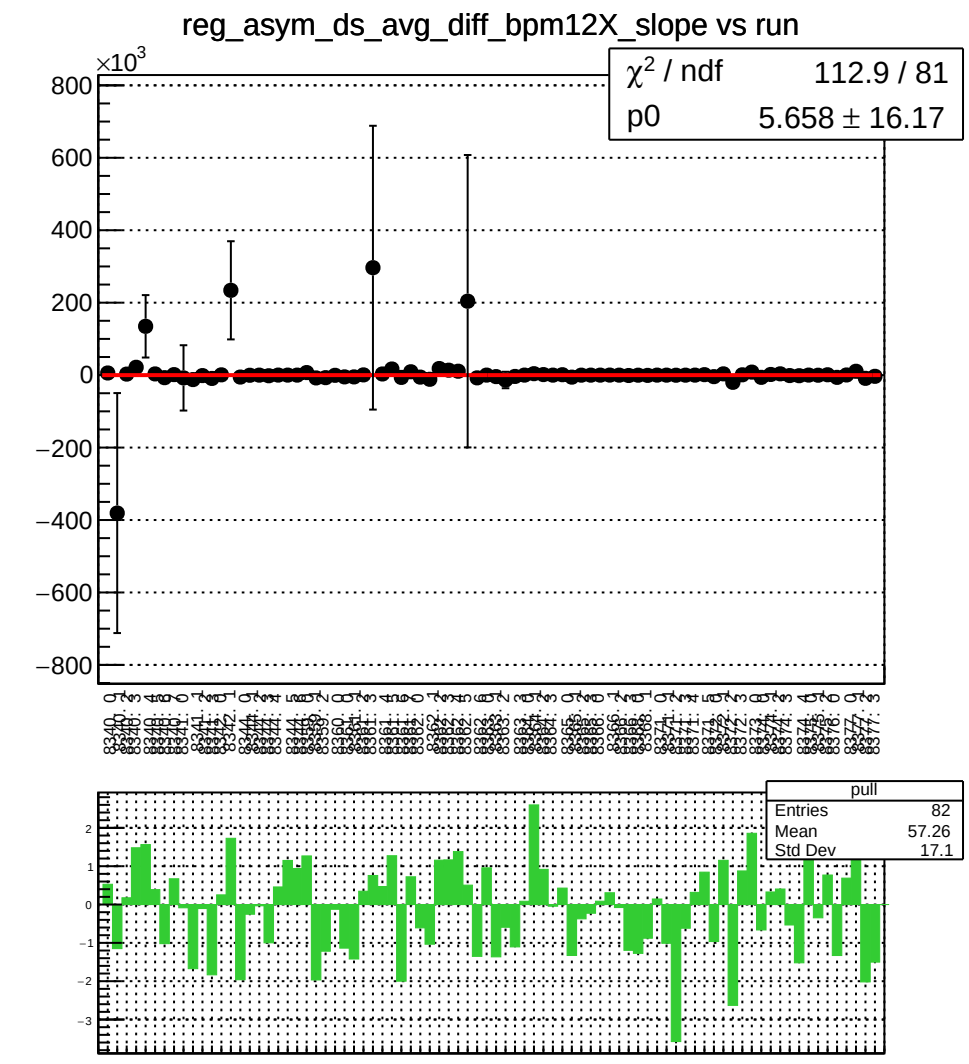

reg_asym_ds_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 80.76 / 75
p0 220.2 ± 259.9
pull
Entries 76
Mean 614.6
Std Dev 570.4

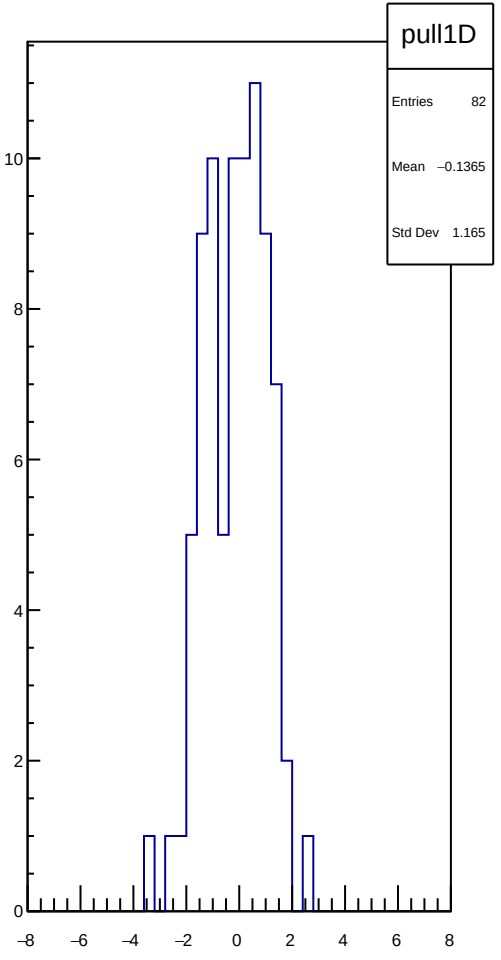

pull1D
Entries 76
Mean 0.003689
Std Dev 1.031

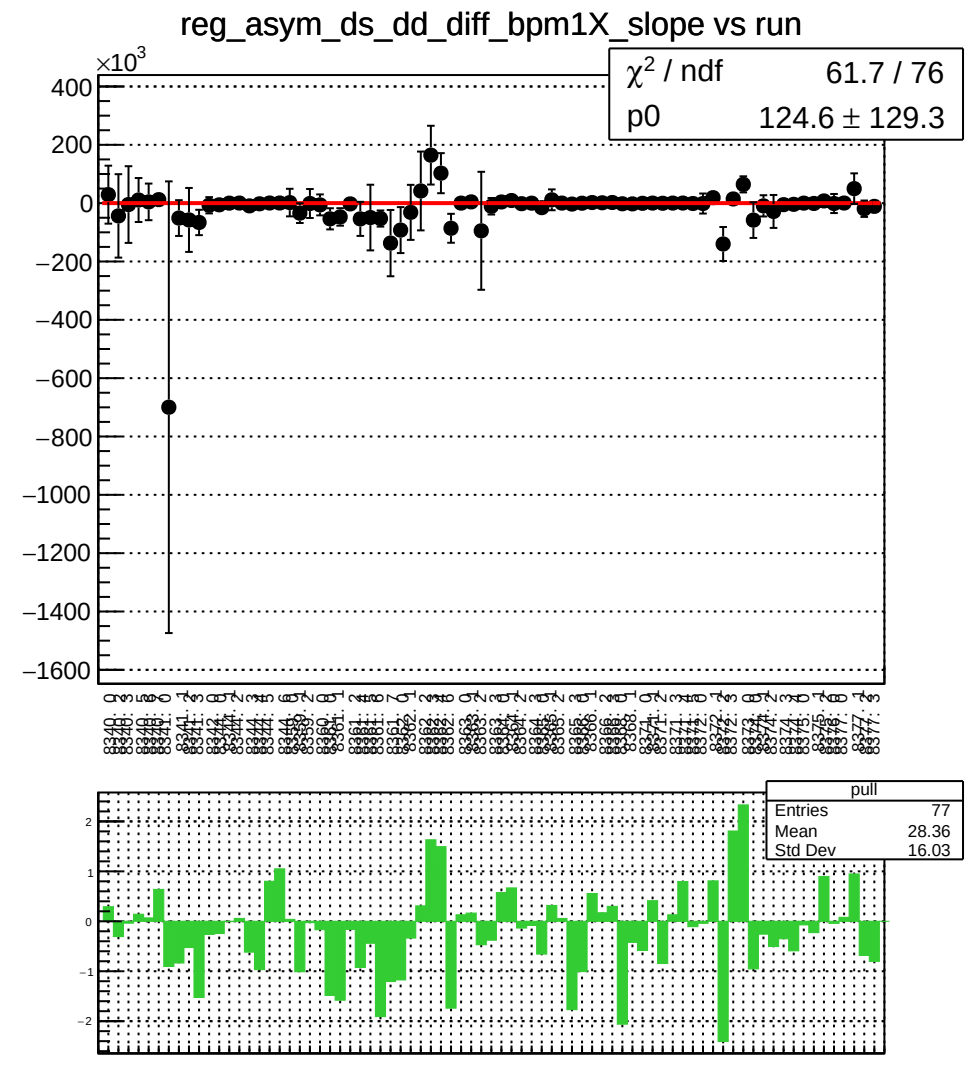

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.26 / 76
p0 114.2 ± 148.1
pull
Entries 77
Mean 29.77
Std Dev 17.47
pull1D
Entries 77
Mean −0.208
Std Dev 0.9112

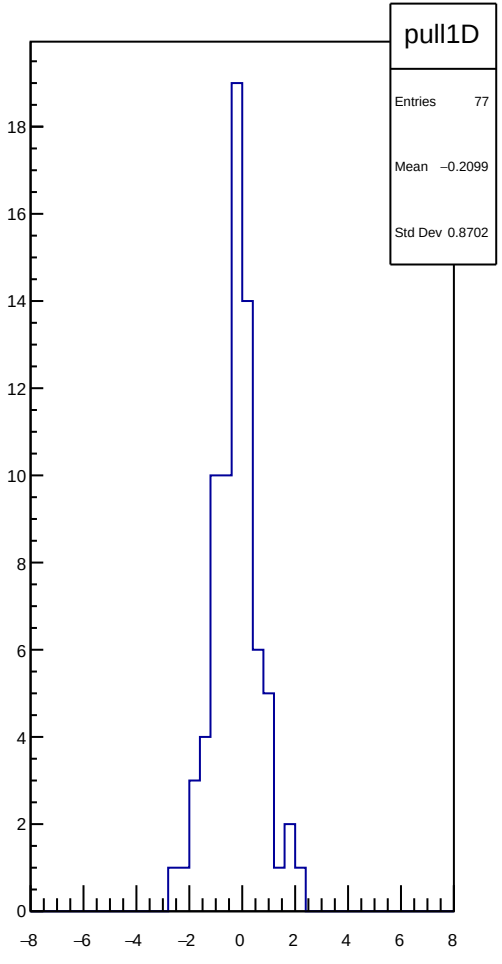

reg_asym_ds_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 80.93 / 75
p0 −237.5 ± 268.3
pull
Entries 76
Mean 1.304e+04
Std Dev 1.299e+04

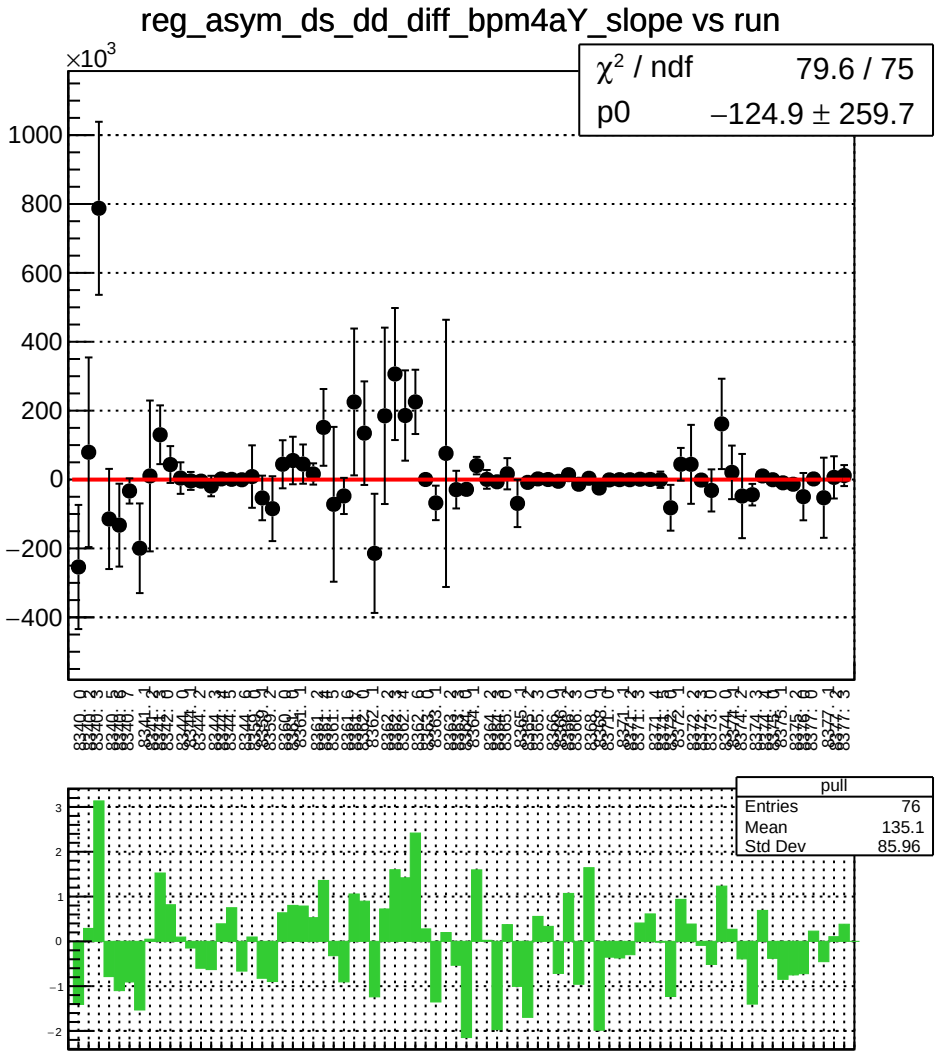

pull1D
Entries 76
Mean −0.0001509
Std Dev 1.032

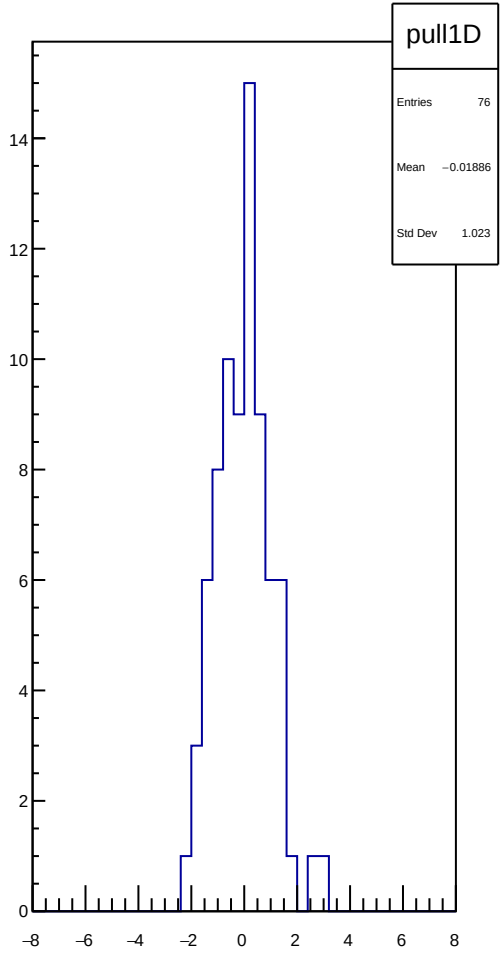

reg_asym_ds_avg_diff_bpm12X_slope vs run
×10^3
800
600
400
200
0
−200
−400
−600
−800
χ² / ndf 112.9 / 81
p0 5.658 ± 16.17
pull
Entries 82
Mean 57.26
Std Dev 17.1
2
1
0
−1
−2
−3

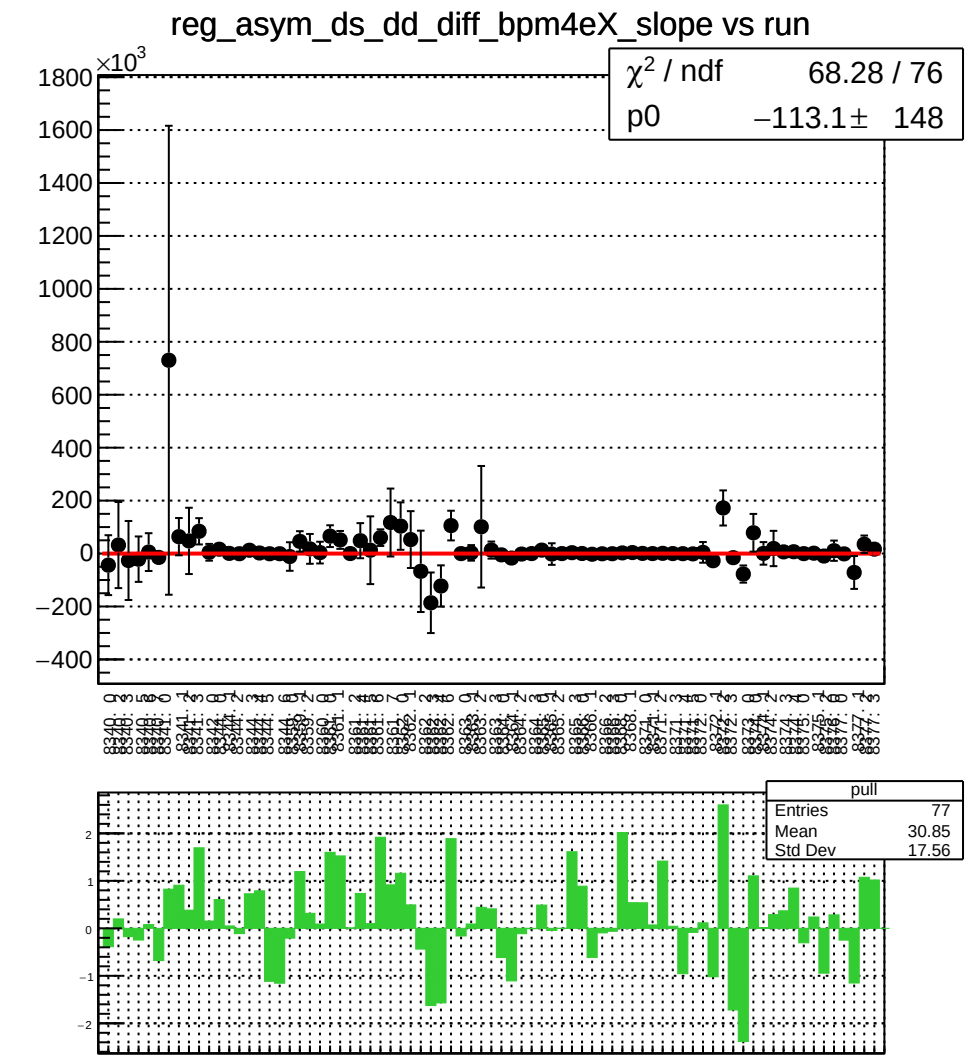

pull1D
Entries 82
Mean −0.1365
Std Dev 1.165
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

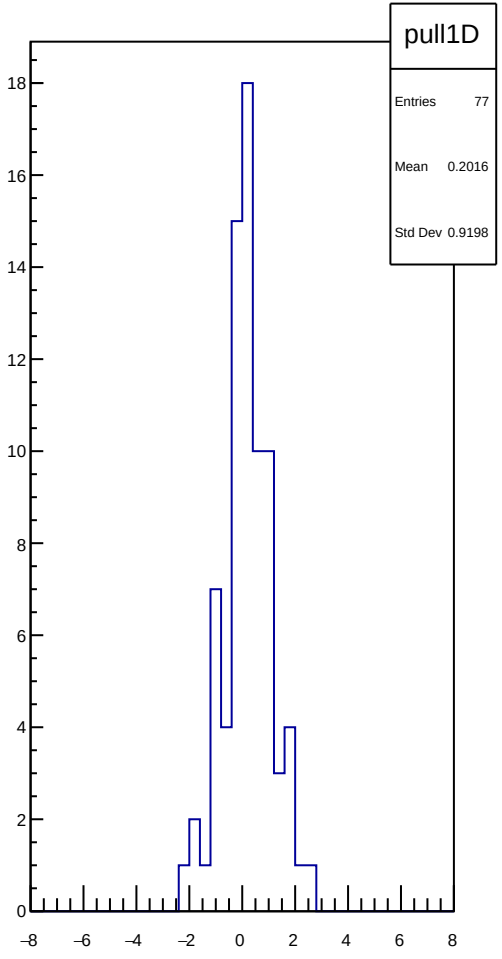

reg_asym_ds_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 61.7 / 76
p0 124.6 ± 129.3
pull
Entries 77
Mean 28.36
Std Dev 16.03

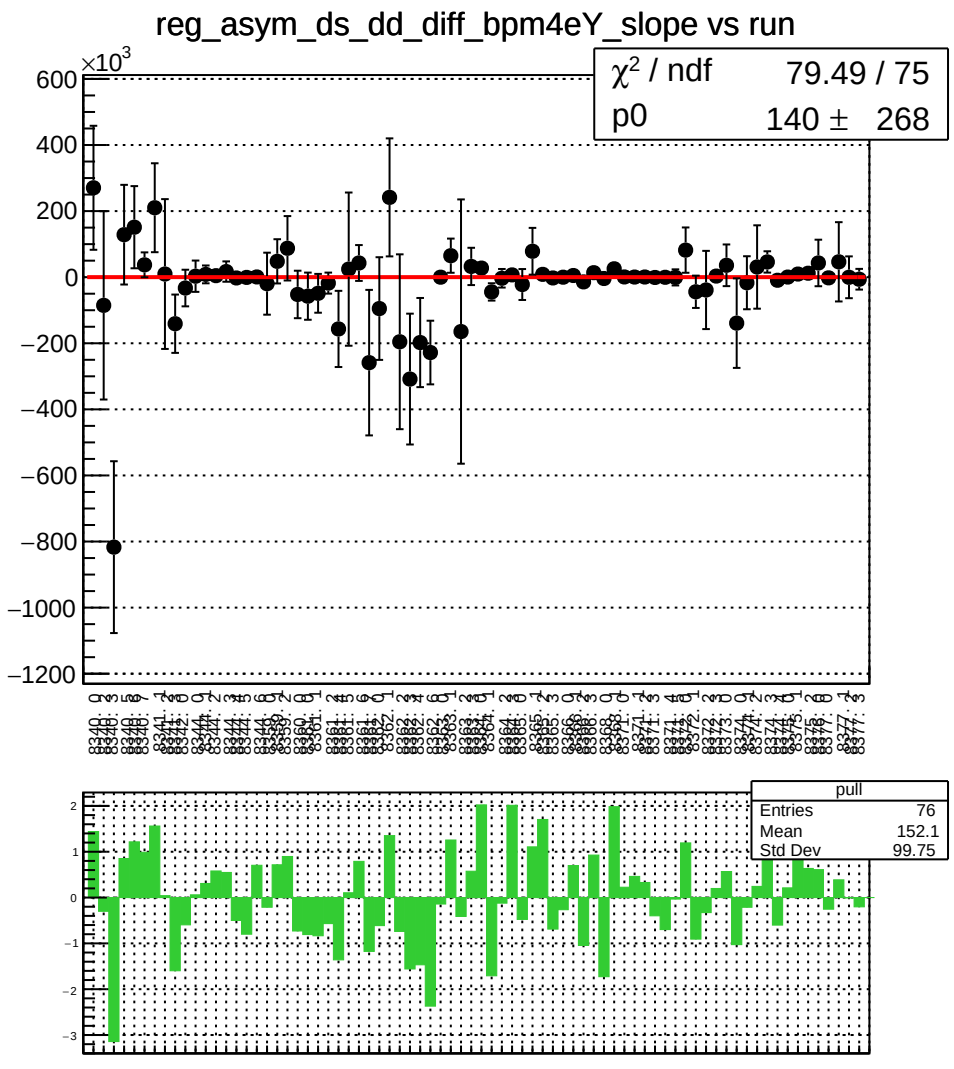

pull1D
Entries 77
Mean −0.2099
Std Dev 0.8702

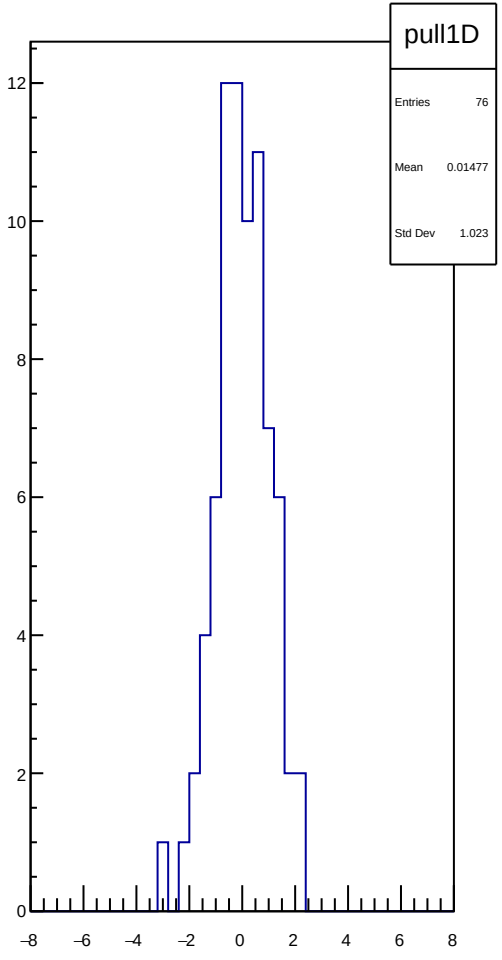

reg_asym_ds_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 79.6 / 75
p0 −124.9 ± 259.7
1000
800
600
400
200
0
−200
−400
pull
Entries 76
Mean 135.1
Std Dev 85.96
3
2
1
0
−1
−2

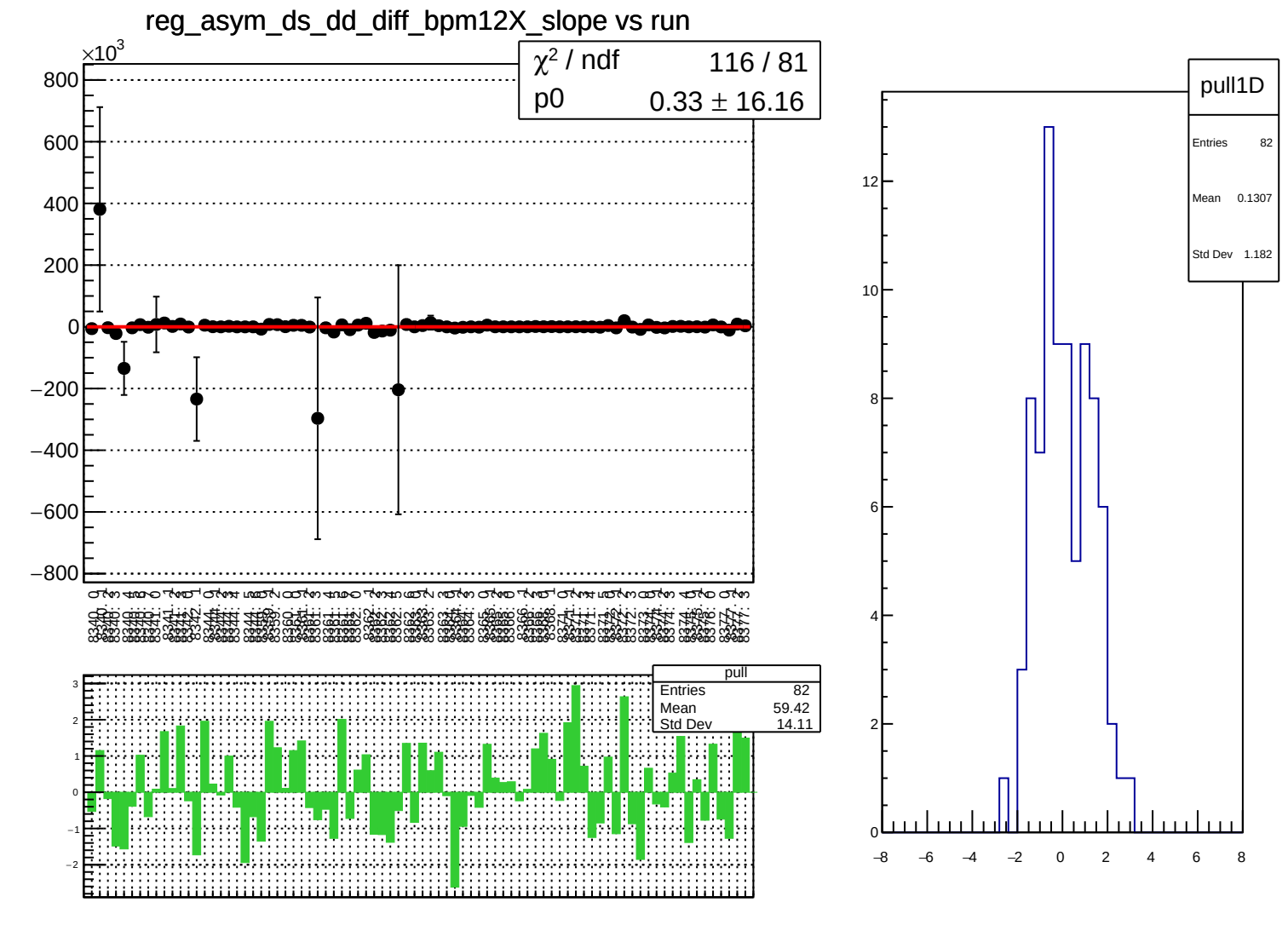

pull1D
Entries 76
Mean −0.01886
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

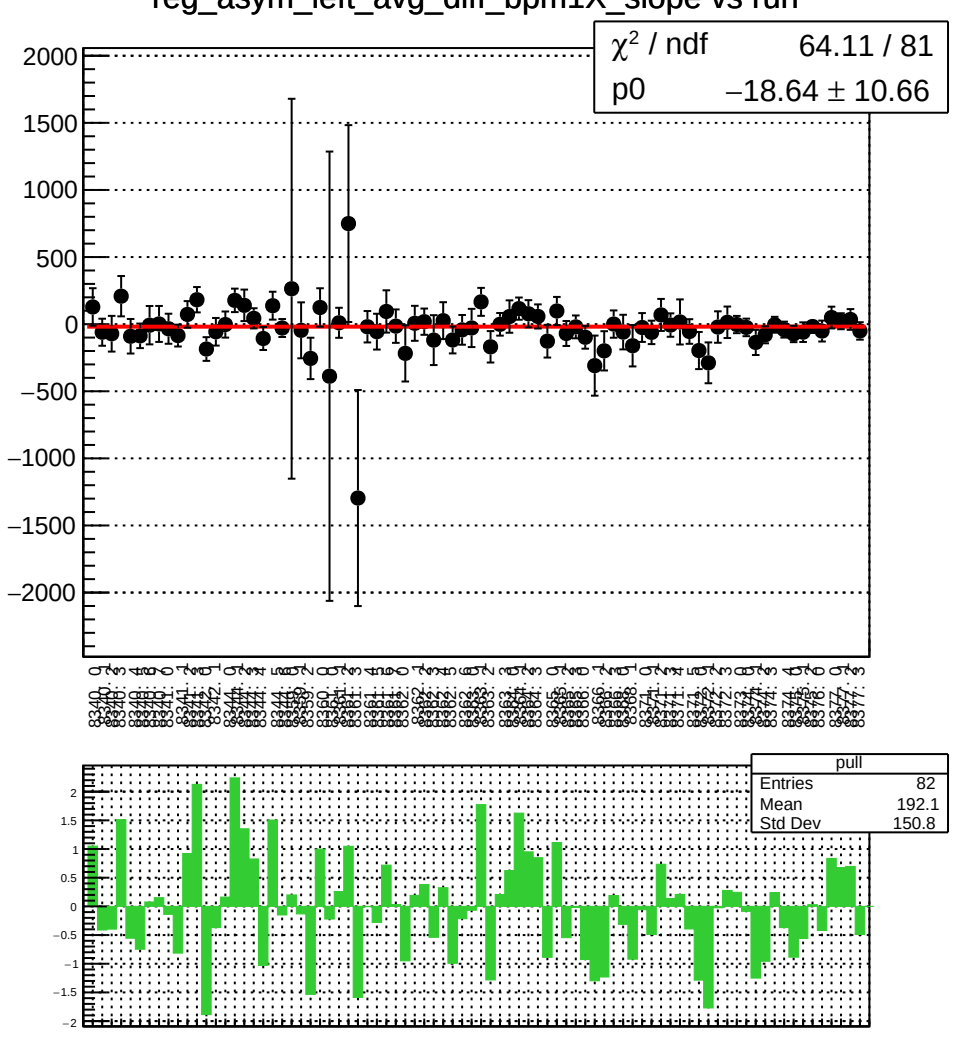

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.28 / 76
p0 −113.1± 148
×10³
pull
Entries 77
Mean 30.85
Std Dev 17.56

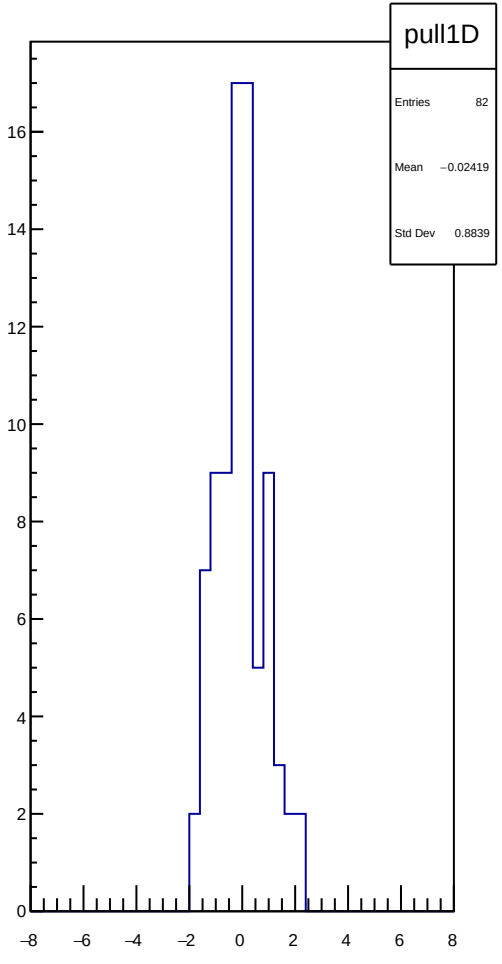

pull1D
Entries 77
Mean 0.2016
Std Dev 0.9198

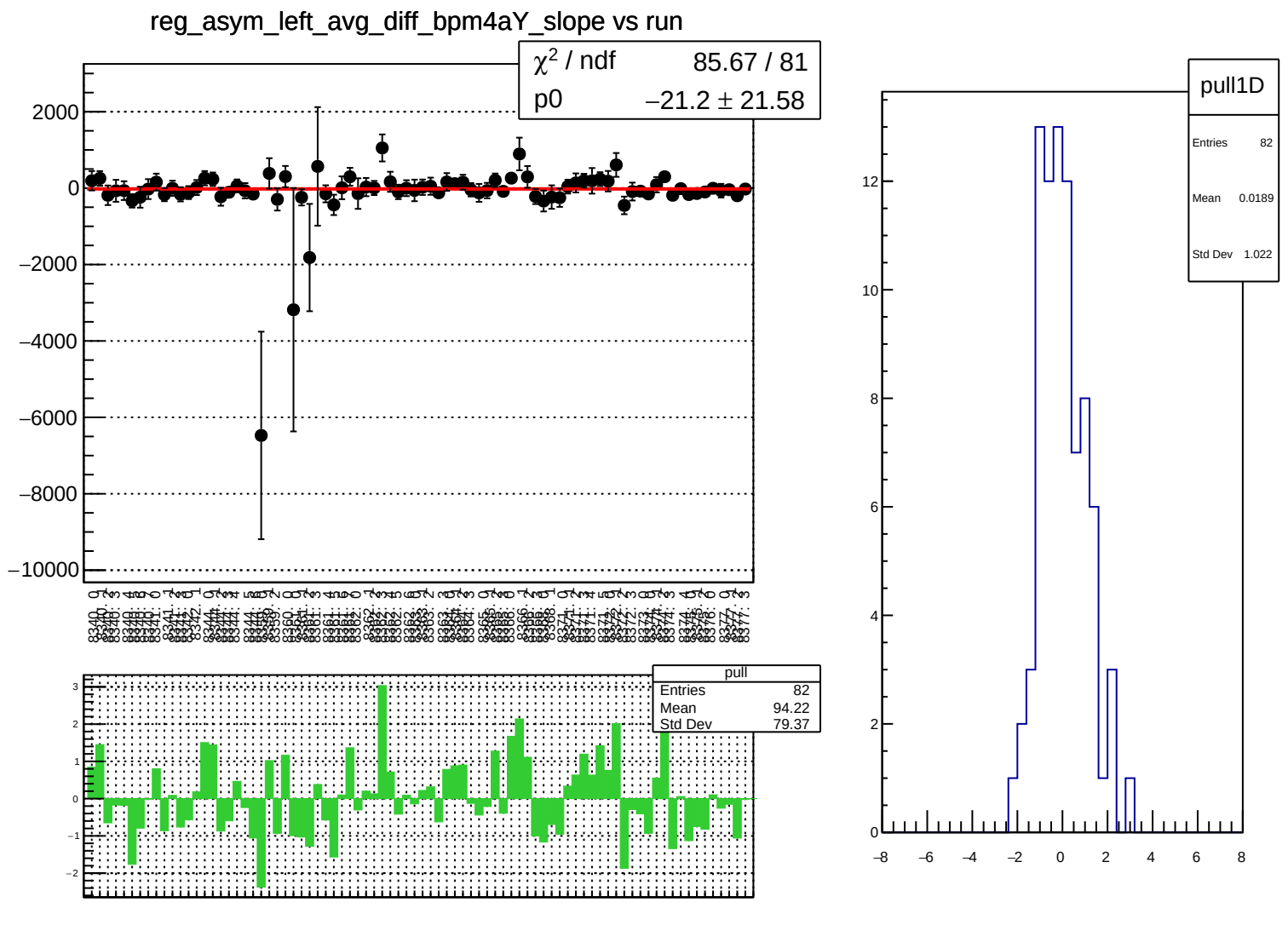

reg_asym_ds_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 79.49 / 75
p0 140 ± 268
pull
Entries 76
Mean 152.1
Std Dev 99.75

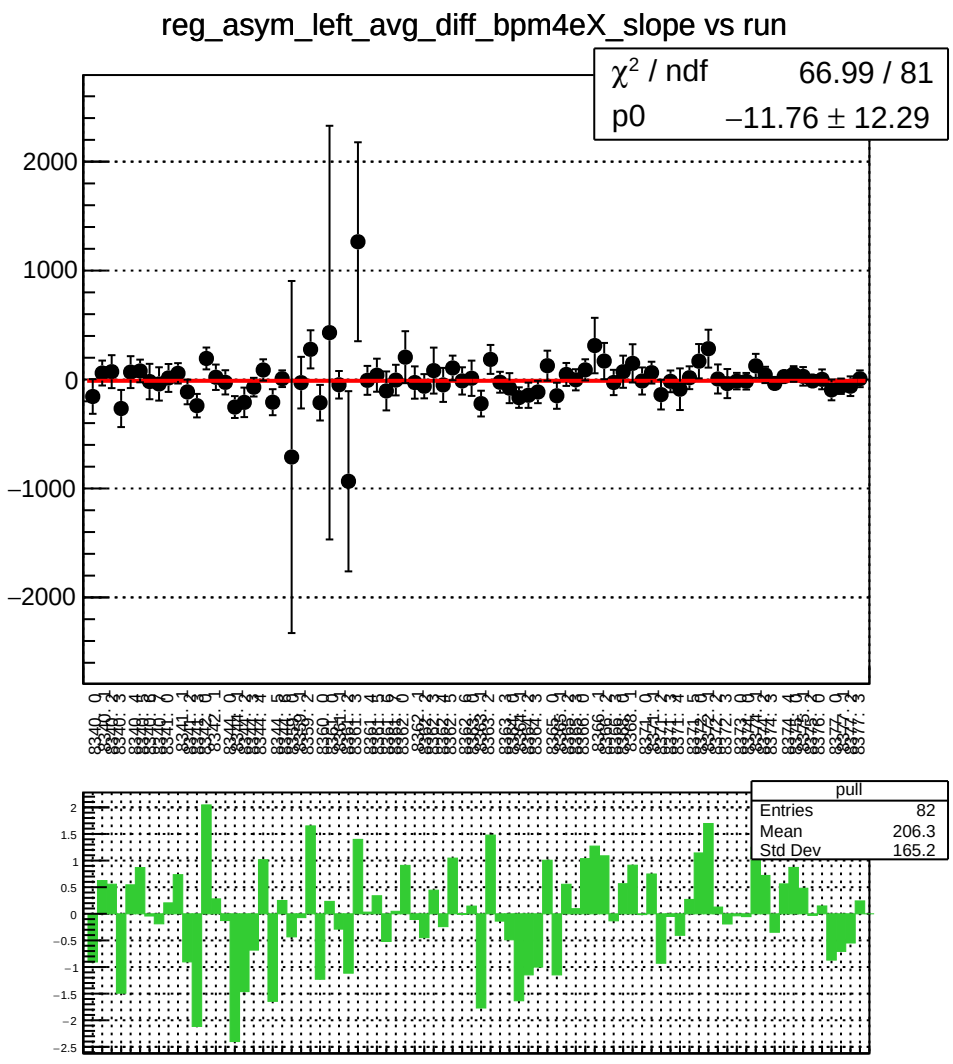

pull1D
Entries 76
Mean 0.01477
Std Dev 1.023

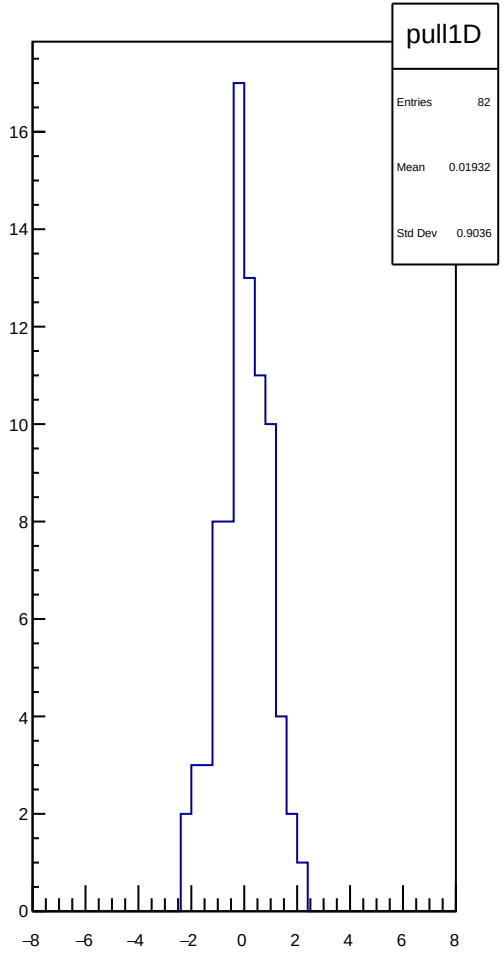

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 116 / 81
p0 0.33 ± 16.16
×10³
pull
Entries 82
Mean 59.42
Std Dev 14.11
pull1D
Entries 82
Mean 0.1307
Std Dev 1.182

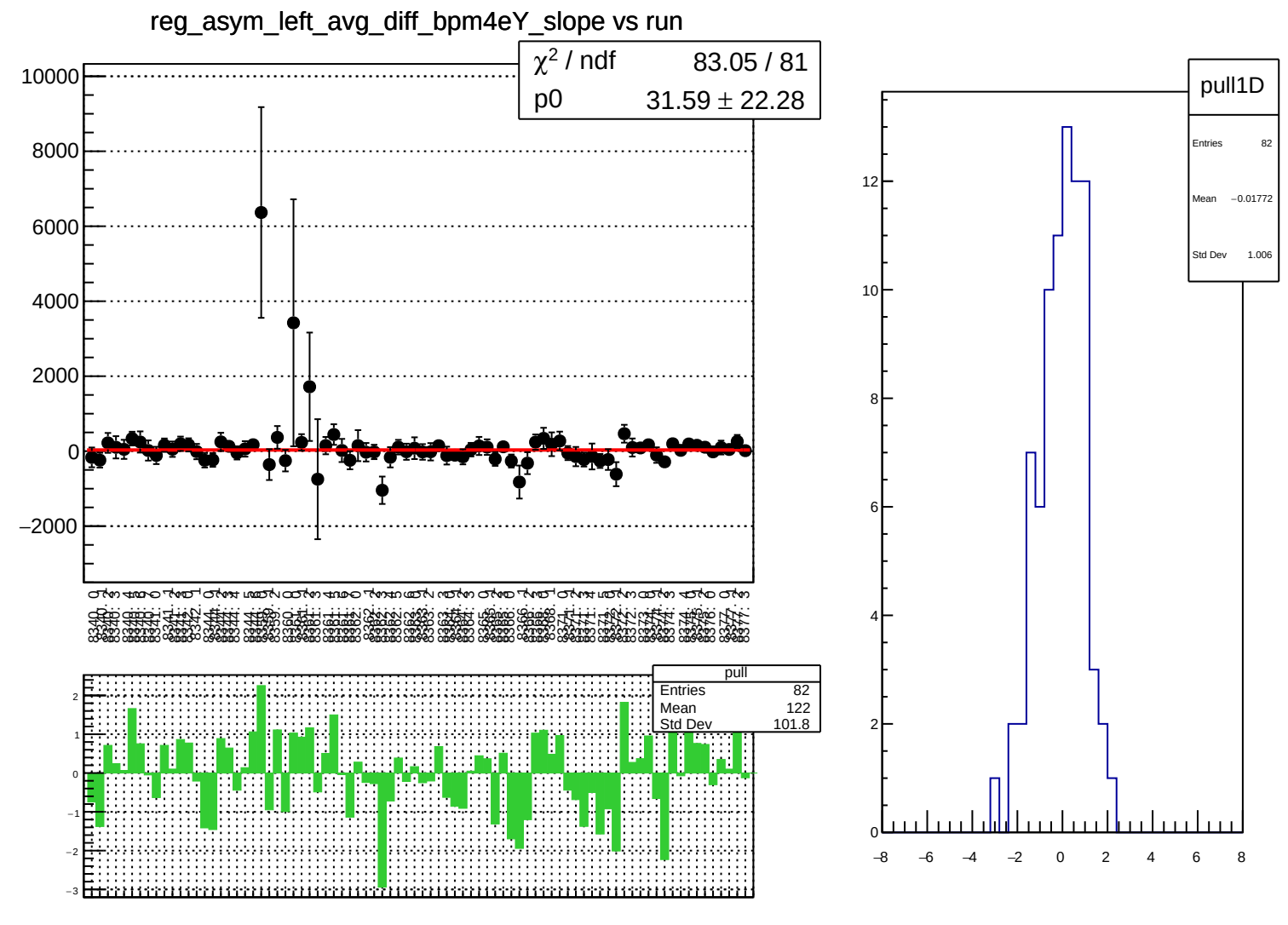

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 64.11 / 81
p0 −18.64 ± 10.66
pull
Entries 82
Mean 192.1
Std Dev 150.8

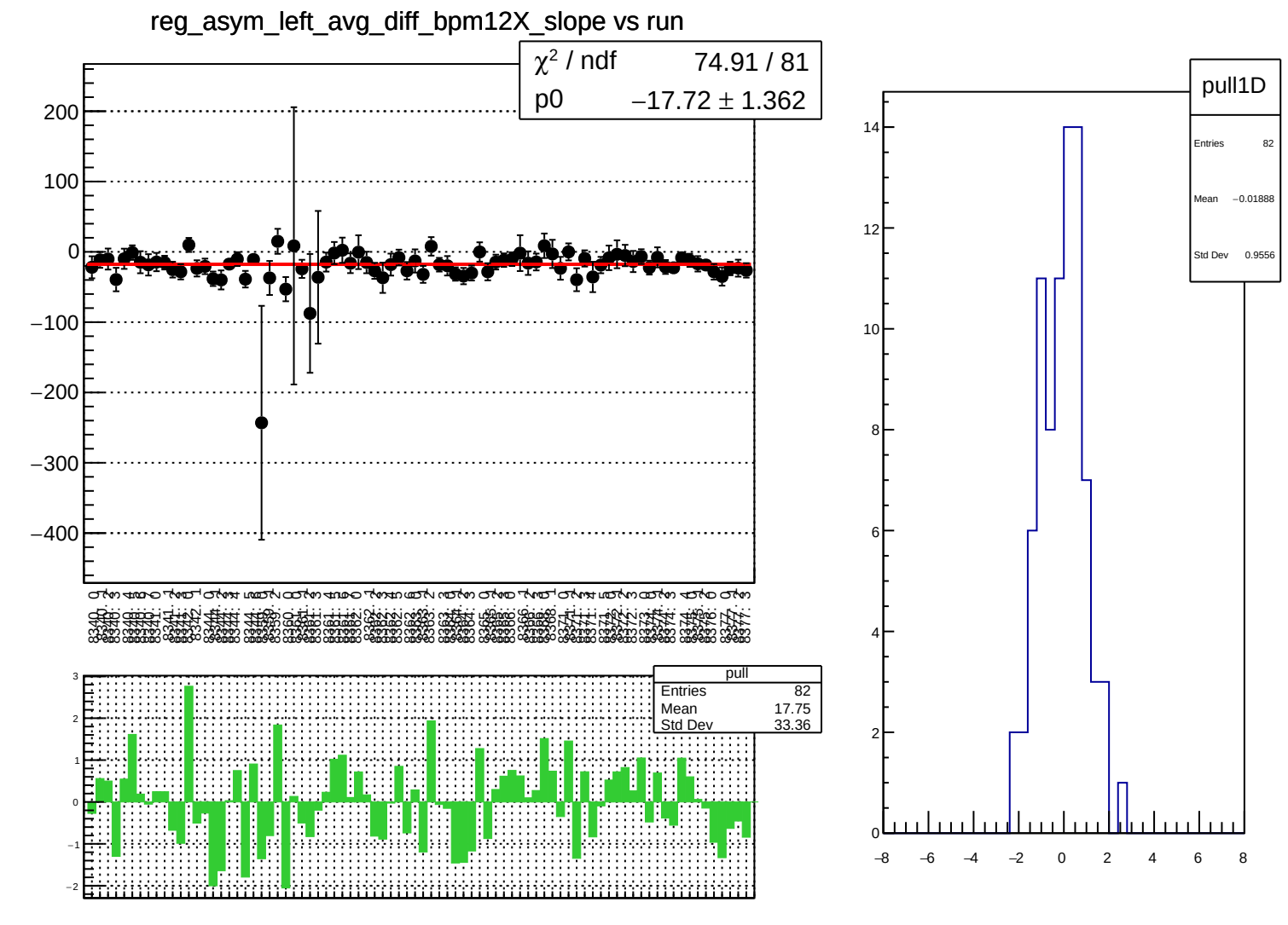

pull1D
Entries 82
Mean −0.02419
Std Dev 0.8839

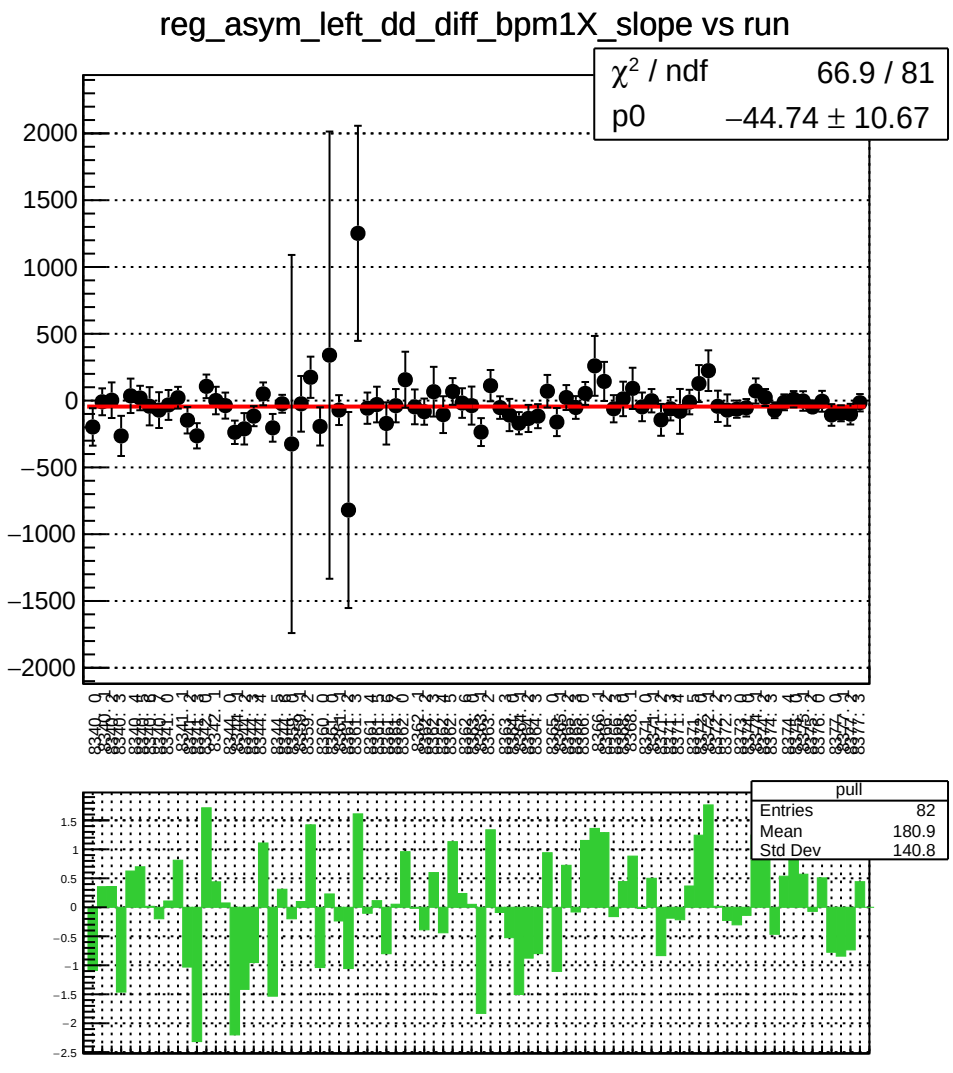

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 85.67 / 81
p0 −21.2 ± 21.58
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 82
Mean 94.22
Std Dev 79.37
pull1D
Entries 82
Mean 0.0189
Std Dev 1.022

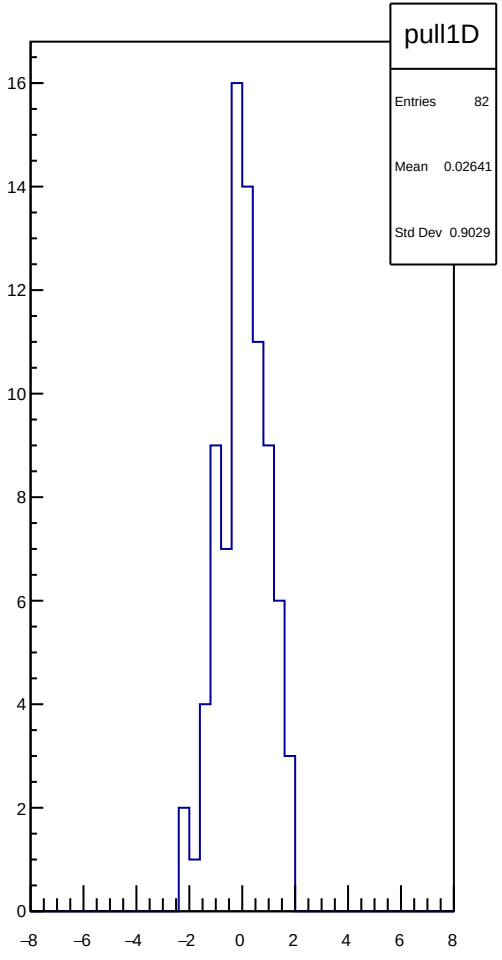

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.99 / 81
p0 −11.76 ± 12.29
2000
1000
0
−1000
−2000
pull
Entries 82
Mean 206.3
Std Dev 165.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

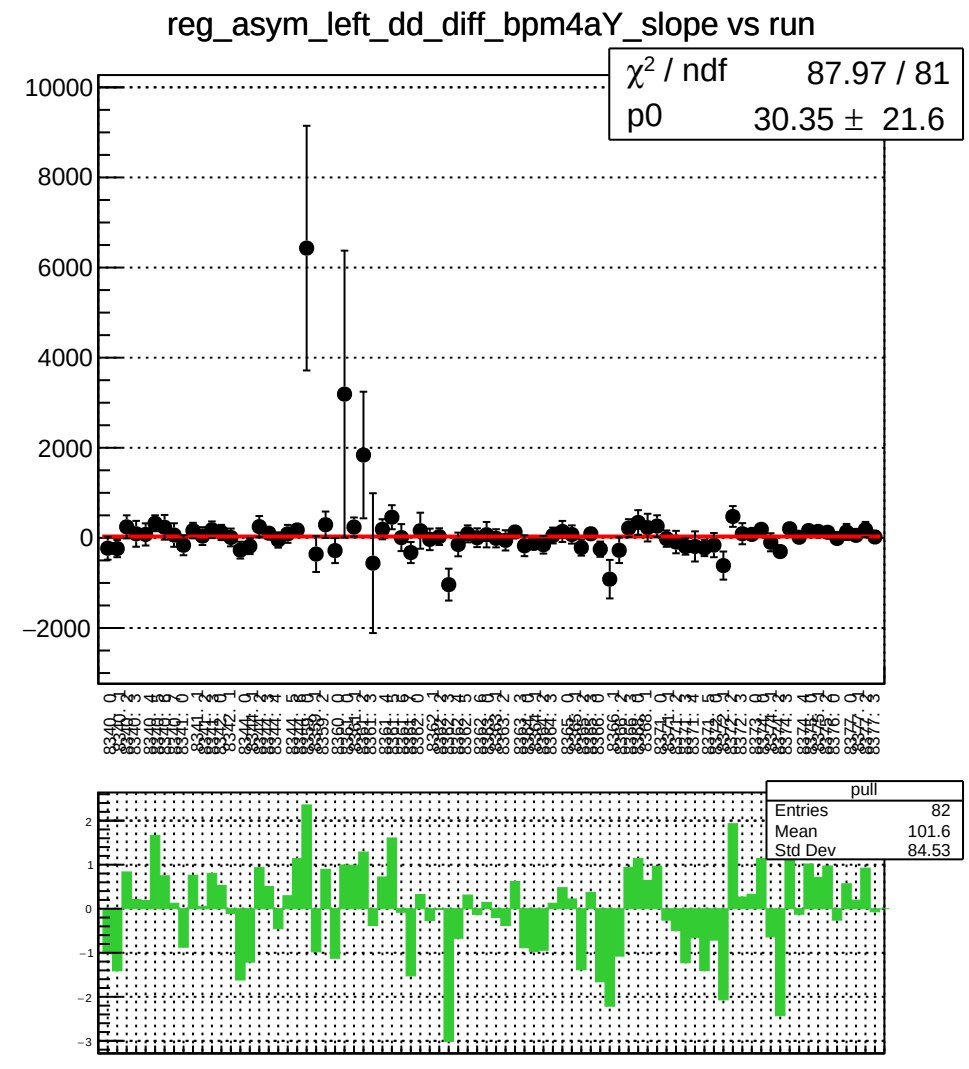

pull1D
Entries 82
Mean 0.01932
Std Dev 0.9036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

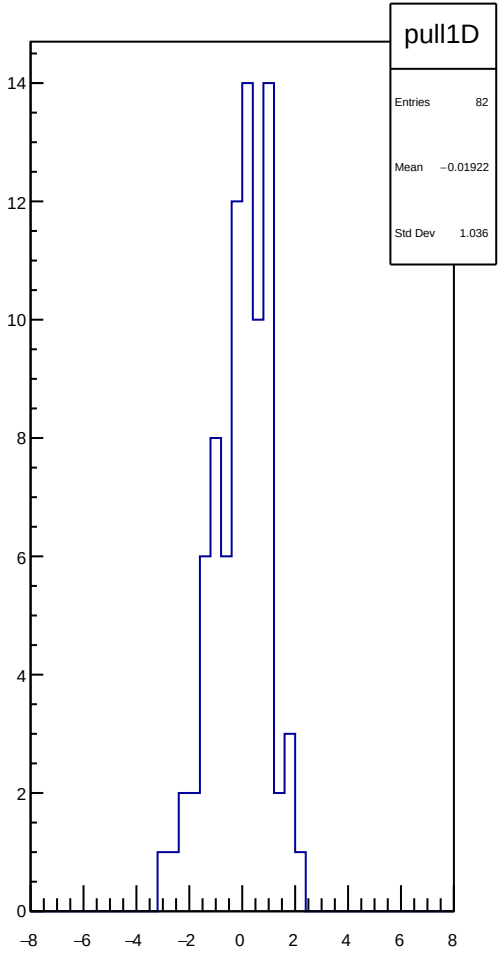

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 83.05 / 81
p0 31.59 ± 22.28
pull
Entries 82
Mean 122
Std Dev 101.8
pull1D
Entries 82
Mean −0.01772
Std Dev 1.006

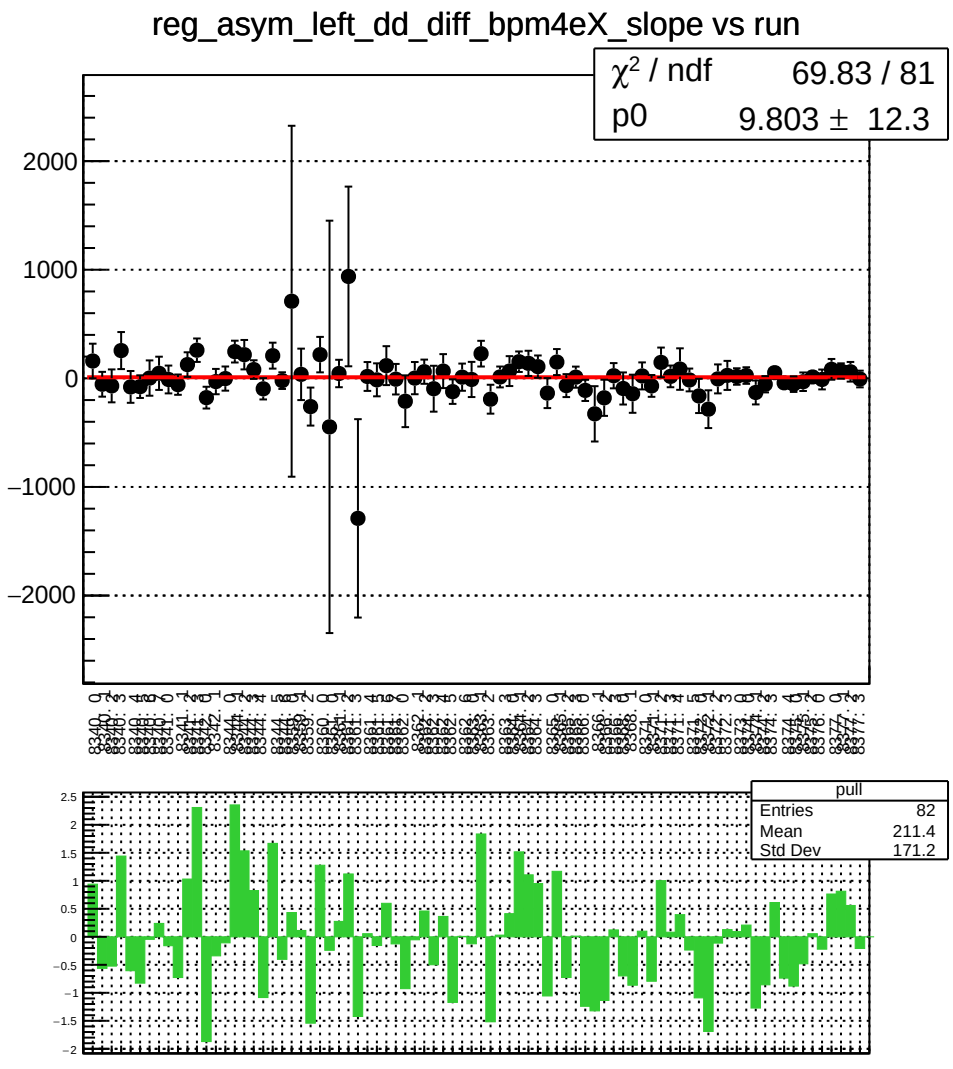

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 74.91 / 81
p0 −17.72 ± 1.362
pull
Entries 82
Mean 17.75
Std Dev 33.36
pull1D
Entries 82
Mean −0.01888
Std Dev 0.9556

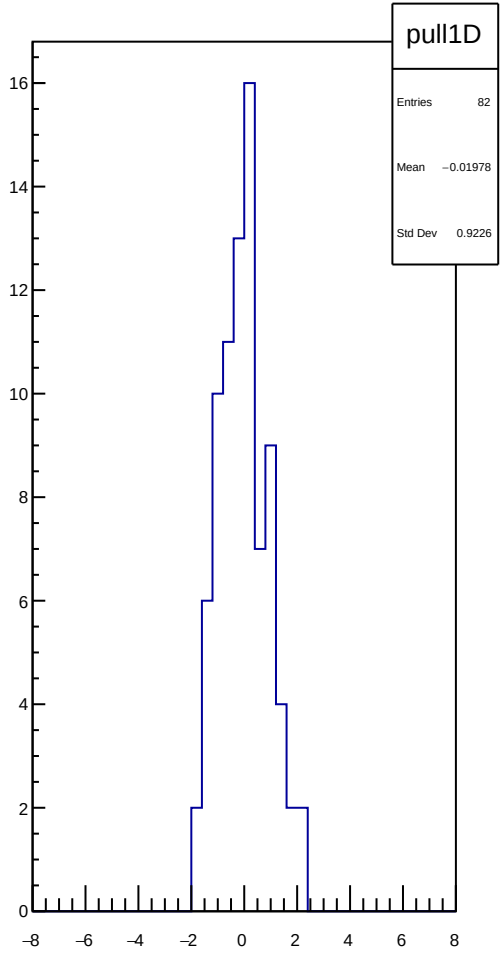

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 66.9 / 81
p0 −44.74 ± 10.67
pull
Entries 82
Mean 180.9
Std Dev 140.8

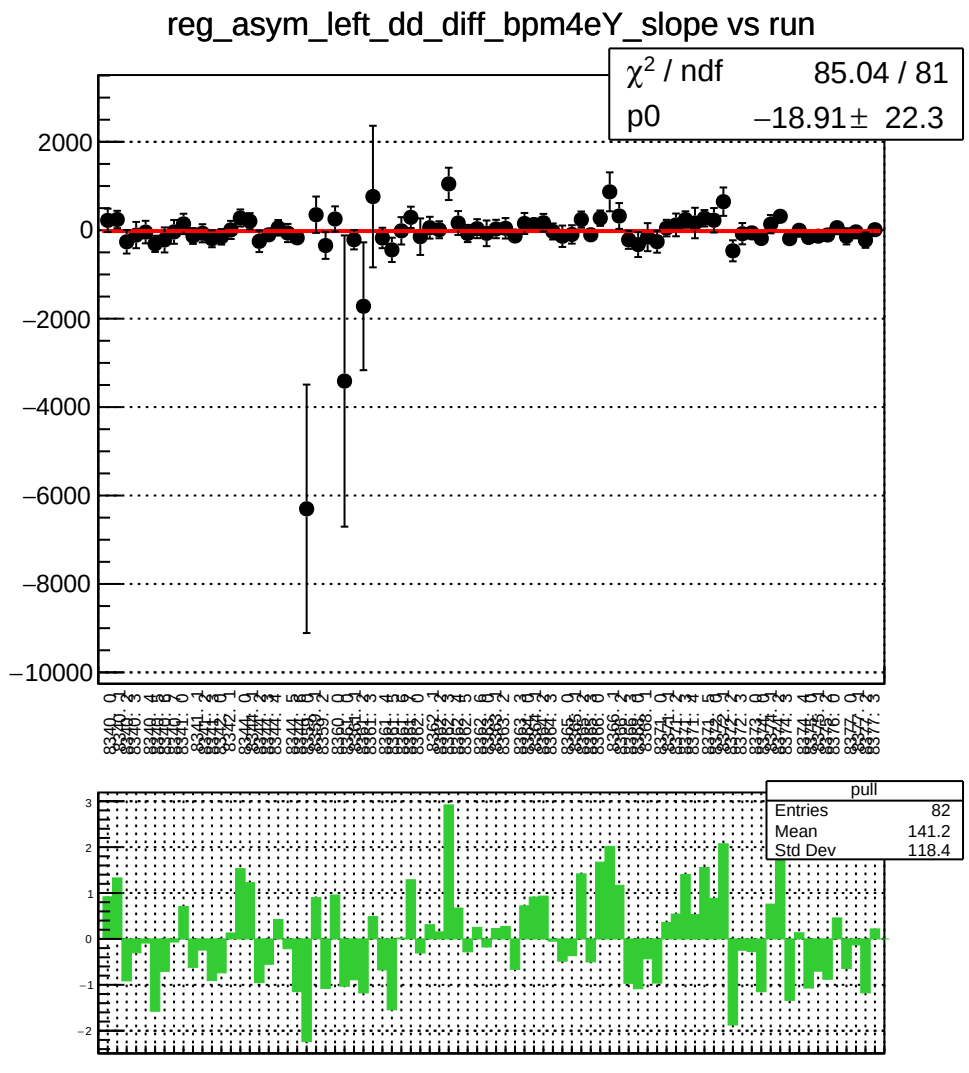

pull1D
Entries 82
Mean 0.02641
Std Dev 0.9029

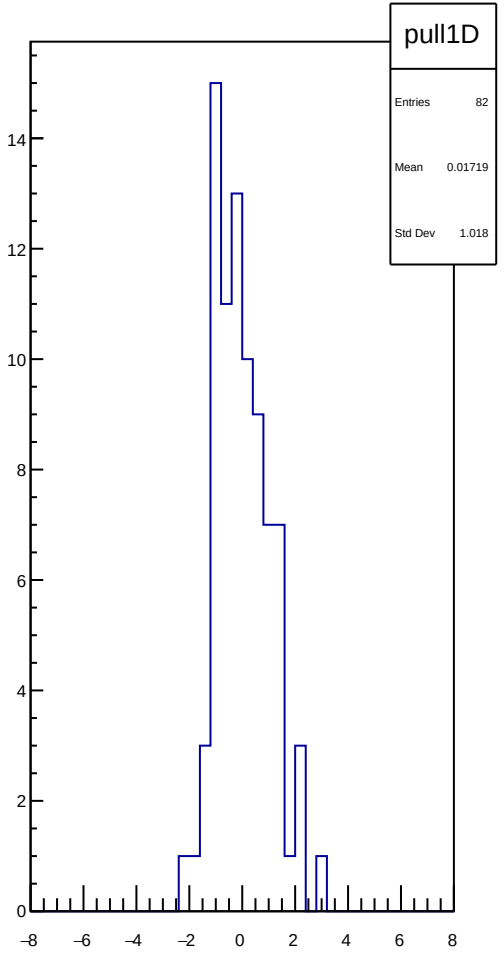

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 87.97 / 81
p0 30.35 ± 21.6
pull
Entries 82
Mean 101.6
Std Dev 84.53

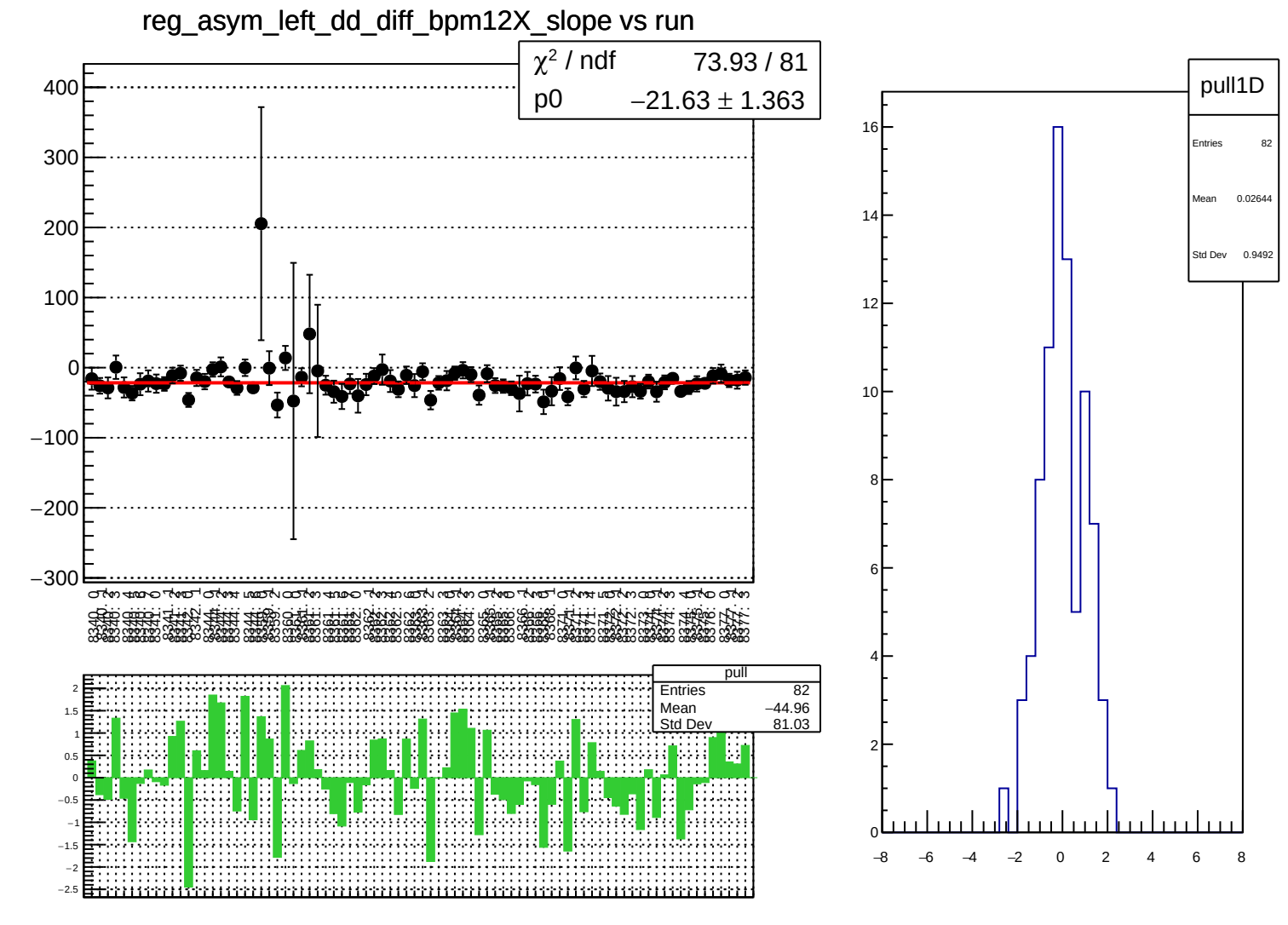

pull1D
Entries 82
Mean −0.01922
Std Dev 1.036

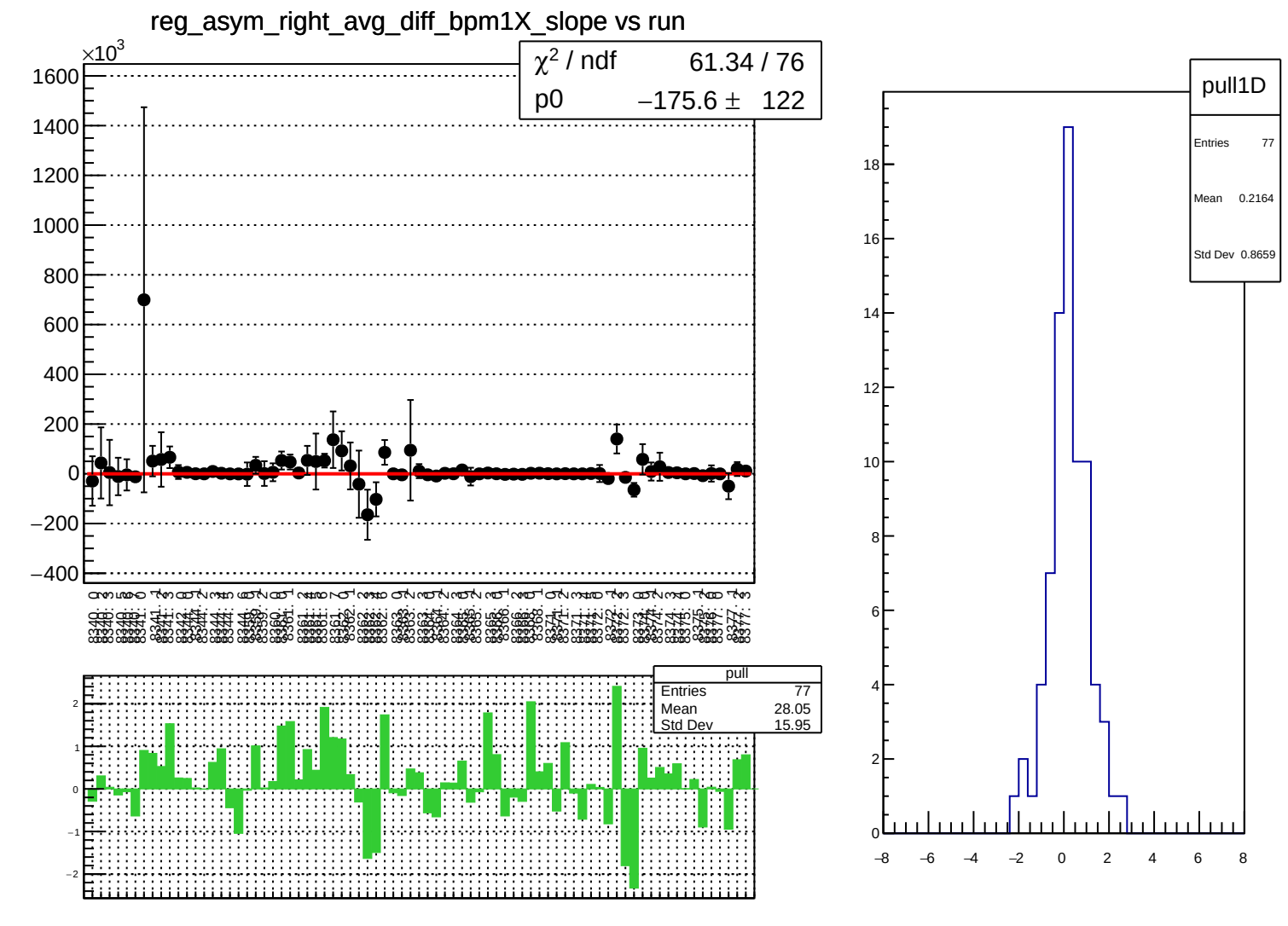

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.83 / 81
p0 9.803 ± 12.3
2000
1000
0
−1000
−2000
pull
Entries 82
Mean 211.4
Std Dev 171.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

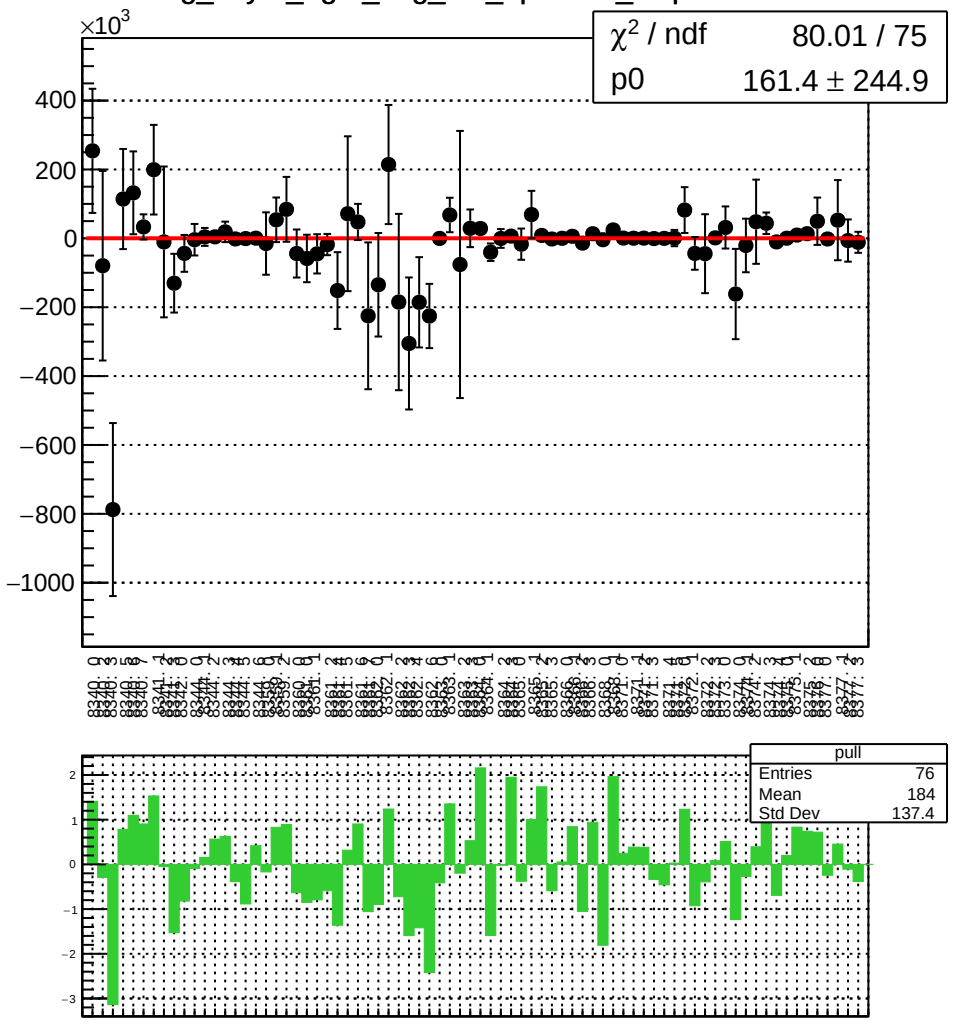

pull1D
Entries 82
Mean −0.01978
Std Dev 0.9226
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

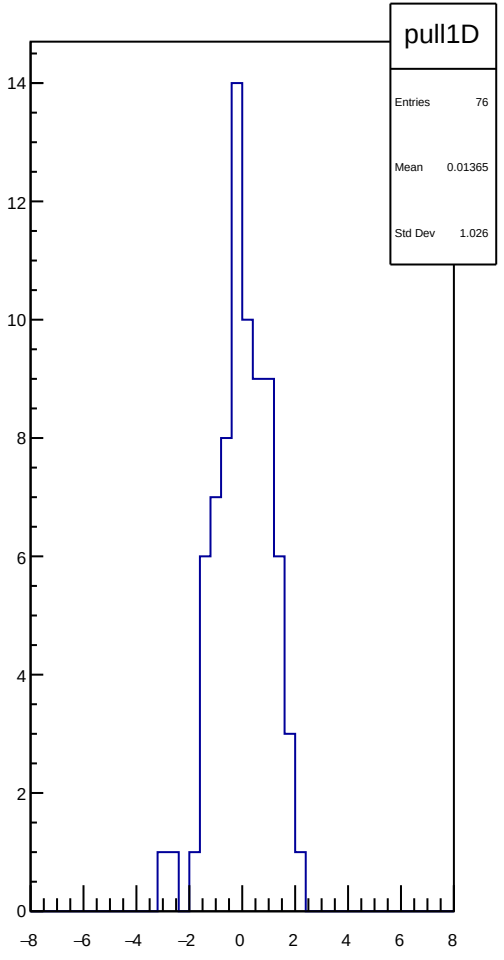

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.04 / 81
p0 −18.91 ± 22.3
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 82
Mean 141.2
Std Dev 118.4
3
2
1
0
−1
−2

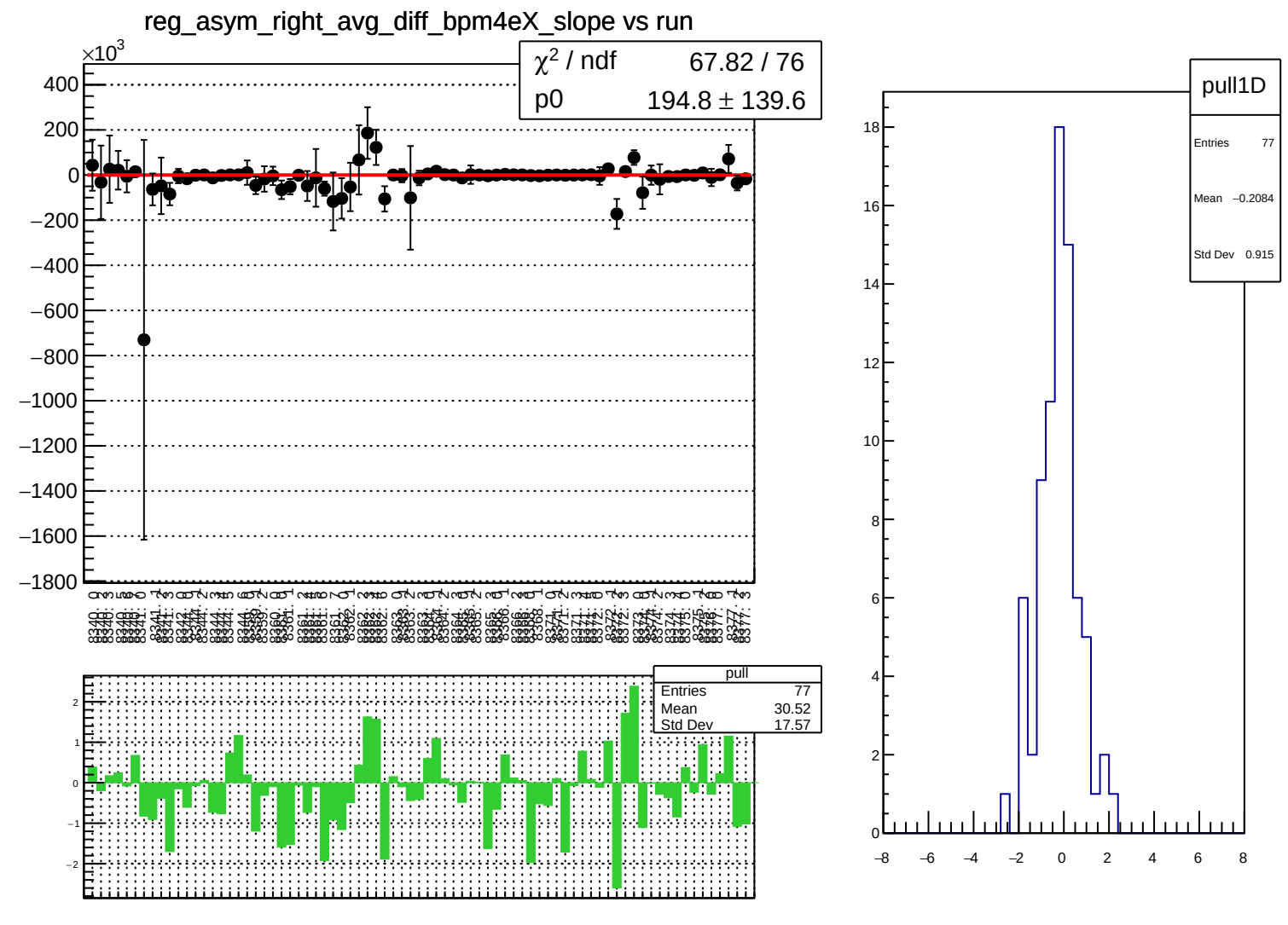

pull1D
Entries 82
Mean 0.01719
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

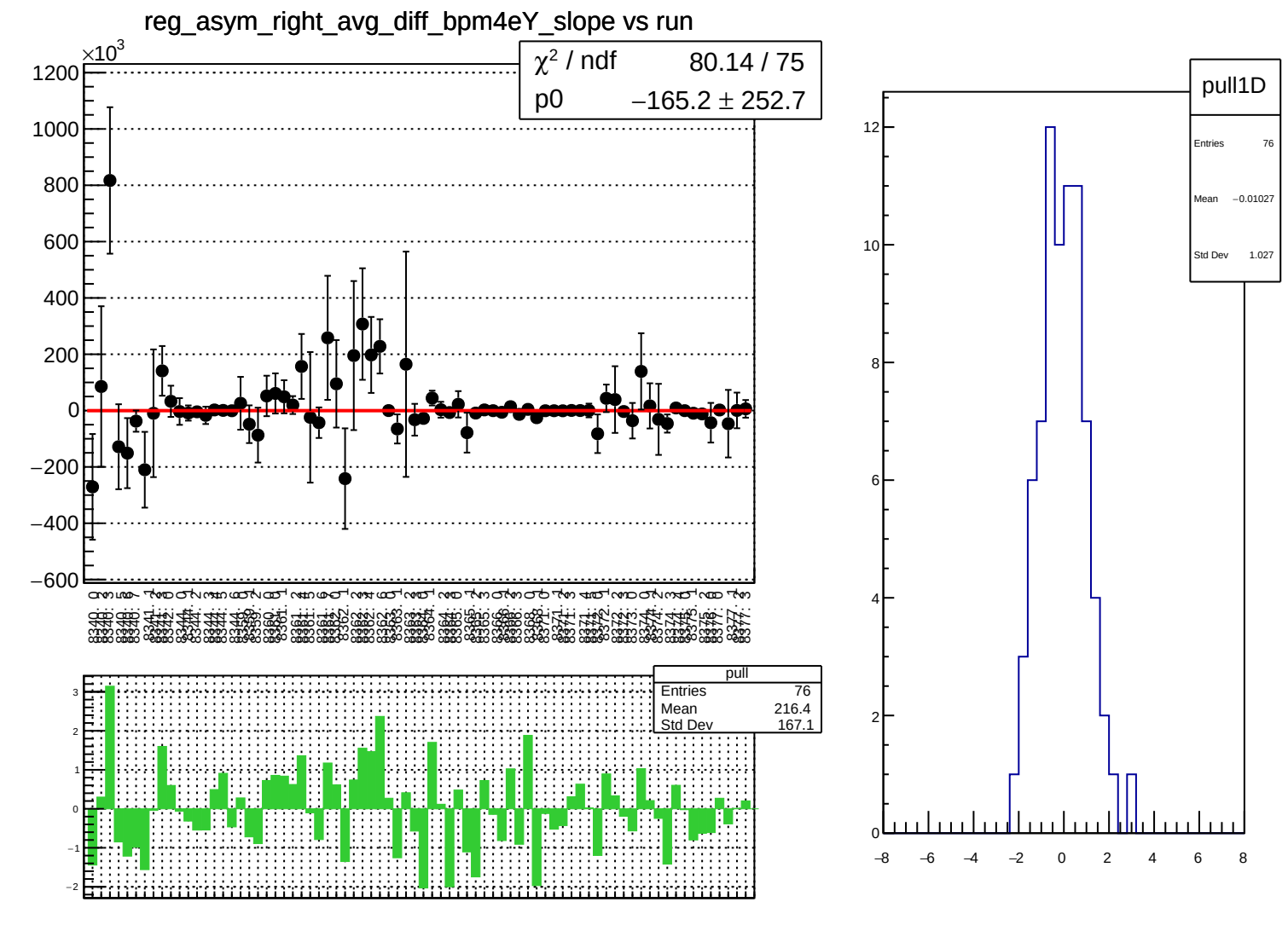

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 73.93 / 81
p0 −21.63 ± 1.363
pull
Entries 82
Mean −44.96
Std Dev 81.03
pull1D
Entries 82
Mean 0.02644
Std Dev 0.9492

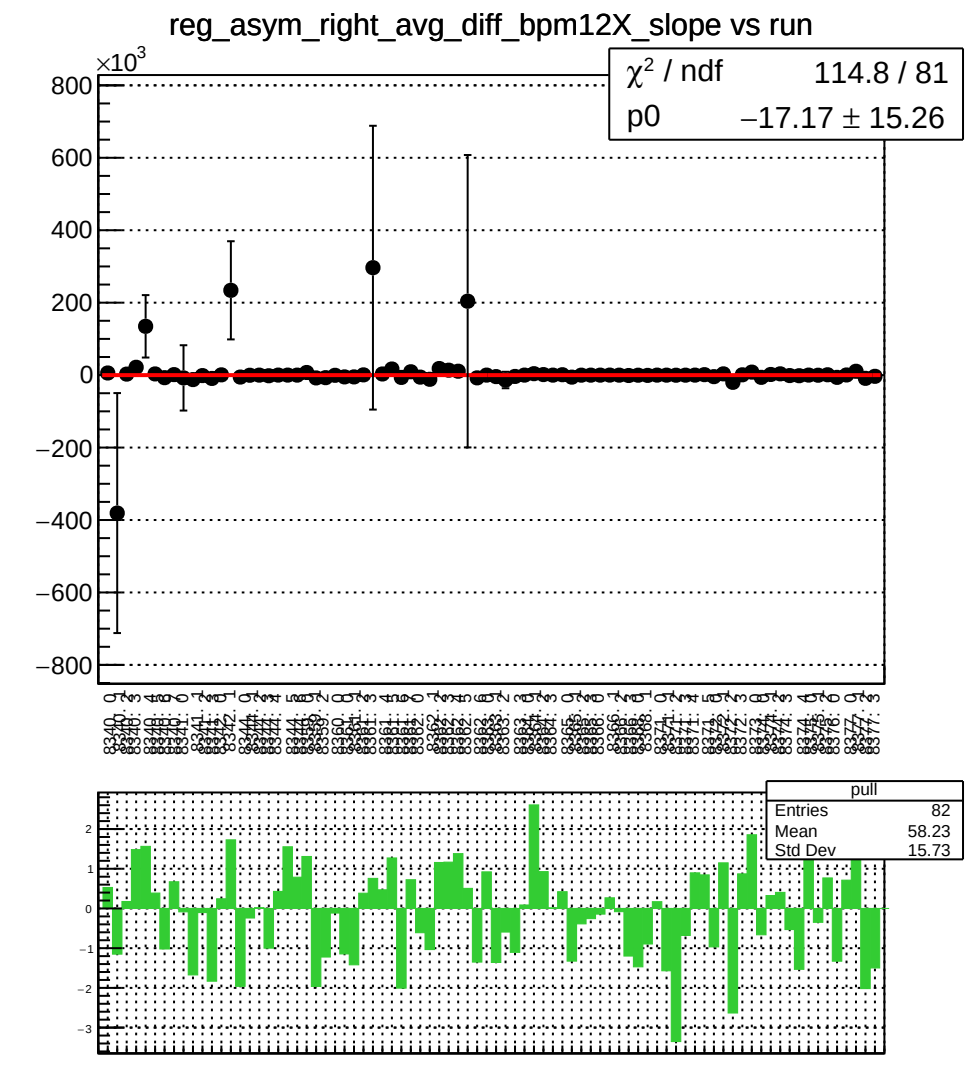

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 61.34 / 76
p0 −175.6 ± 122
pull
Entries 77
Mean 28.05
Std Dev 15.95
pull1D
Entries 77
Mean 0.2164
Std Dev 0.8659

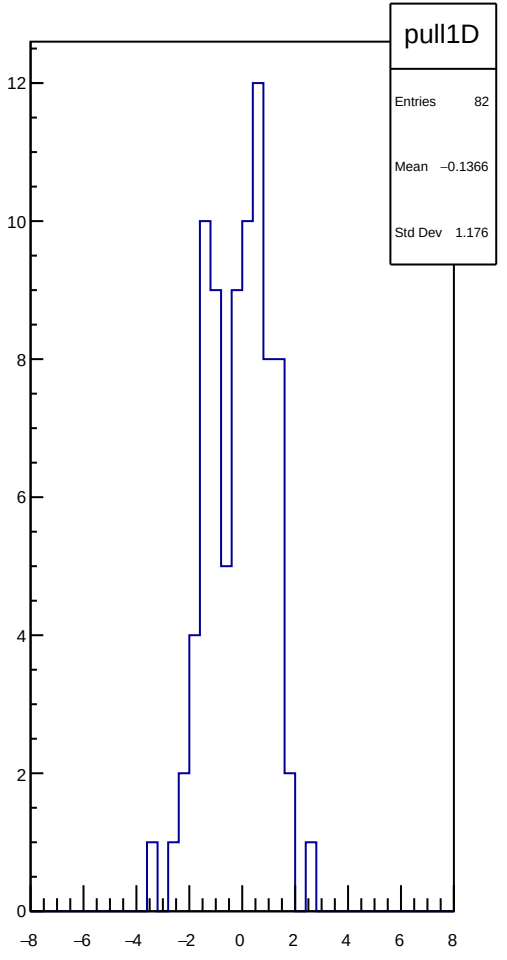

reg_asym_right_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 80.01 / 75
p0 161.4 ± 244.9
pull
Entries 76
Mean 184
Std Dev 137.4

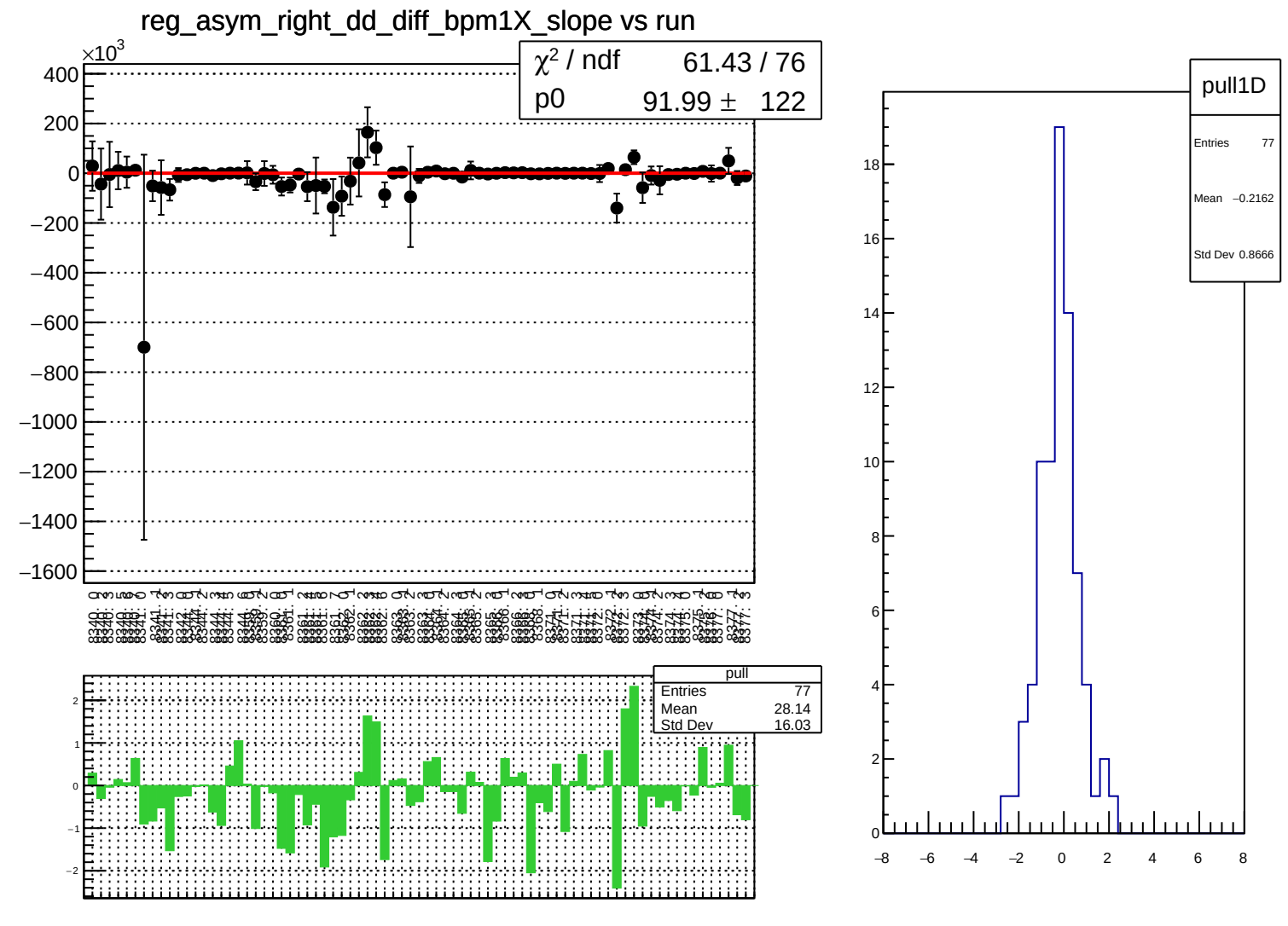

pull1D
Entries 76
Mean 0.01365
Std Dev 1.026

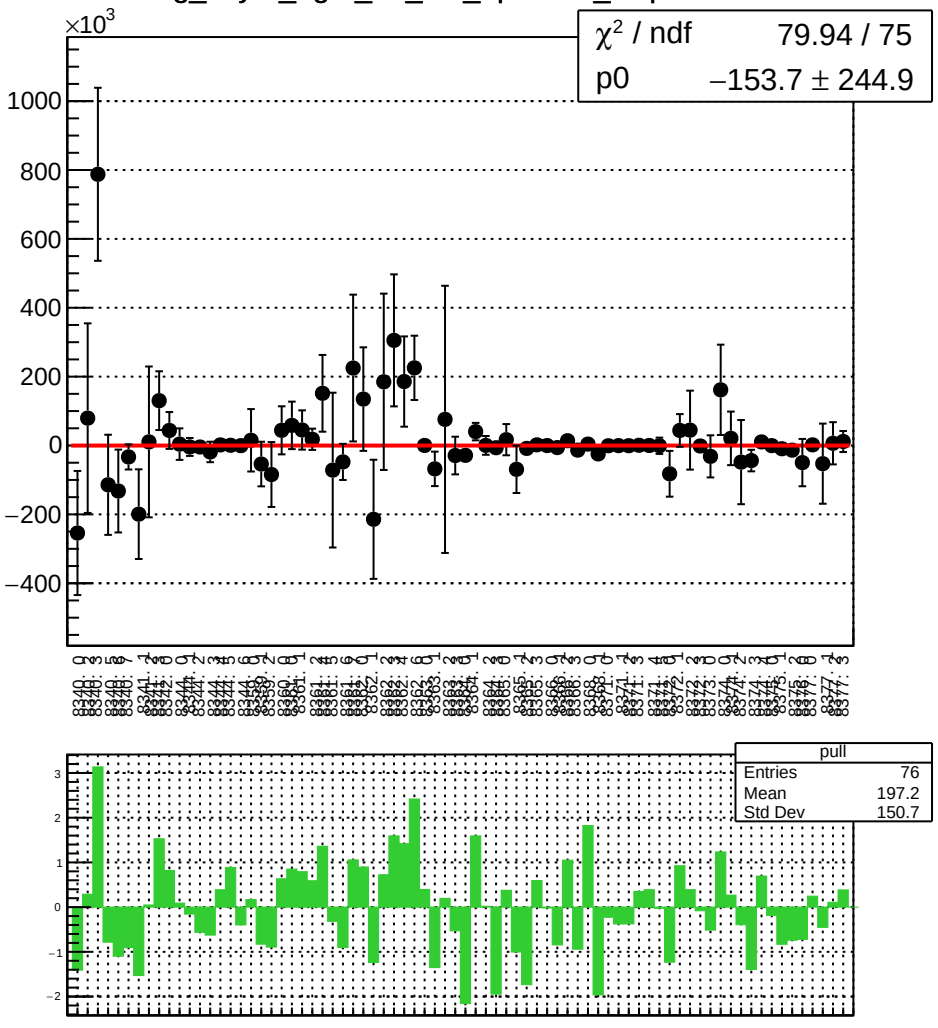

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.82 / 76
p0 194.8 ± 139.6
pull
Entries 77
Mean 30.52
Std Dev 17.57
pull1D
Entries 77
Mean −0.2084
Std Dev 0.915

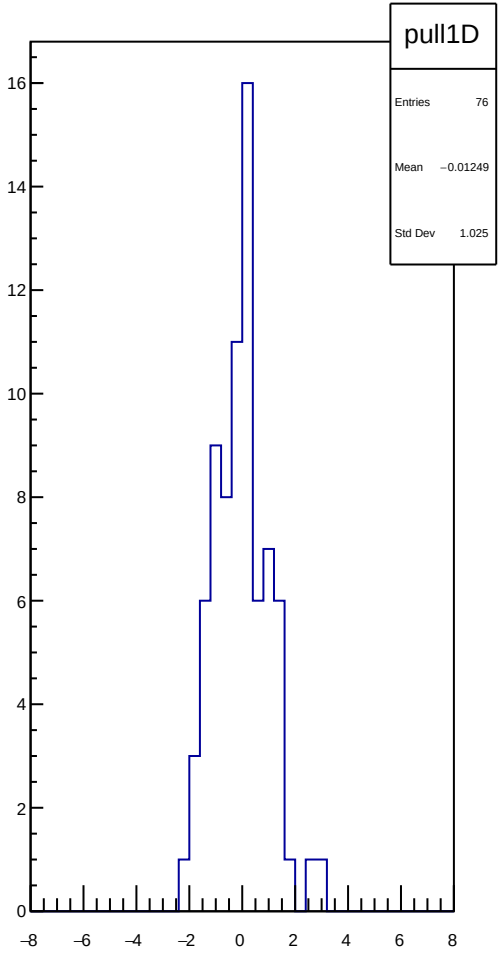

reg_asym_right_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 80.14 / 75
p0 −165.2 ± 252.7
pull
Entries 76
Mean 216.4
Std Dev 167.1
pull1D
Entries 76
Mean −0.01027
Std Dev 1.027

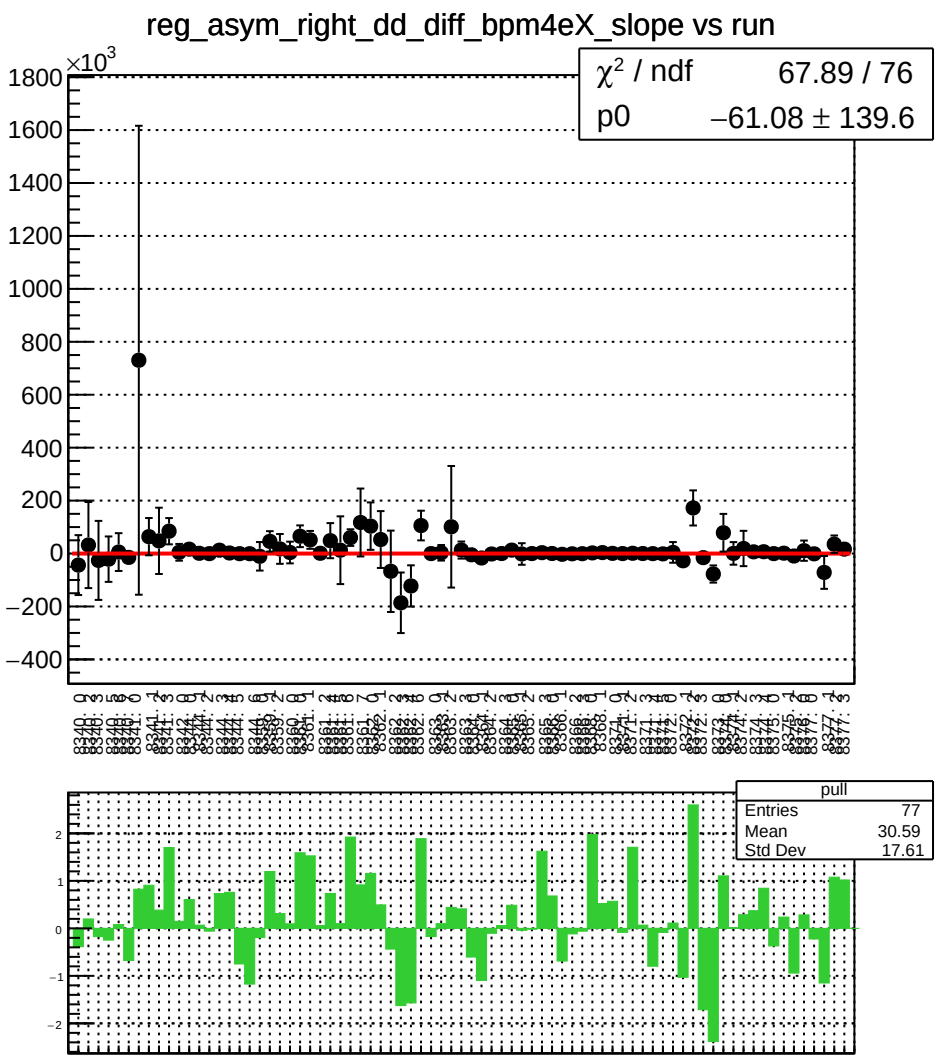

reg_asym_right_avg_diff_bpm12X_slope vs run
×10^3
800
600
400
200
0
−200
−400
−600
−800
χ² / ndf 114.8 / 81
p0 −17.17 ± 15.26
pull
Entries 82
Mean 58.23
Std Dev 15.73
2
1
0
−1
−2
−3

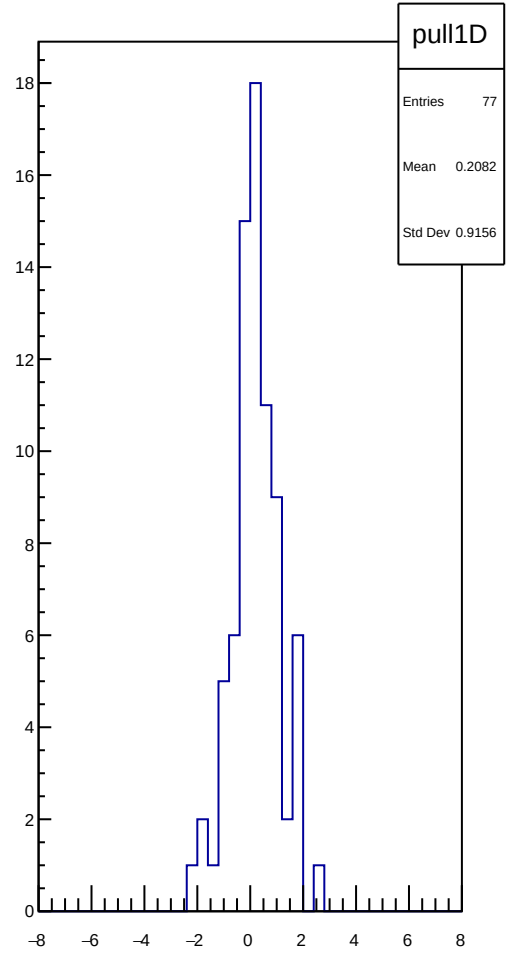

pull1D
Entries 82
Mean −0.1366
Std Dev 1.176
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

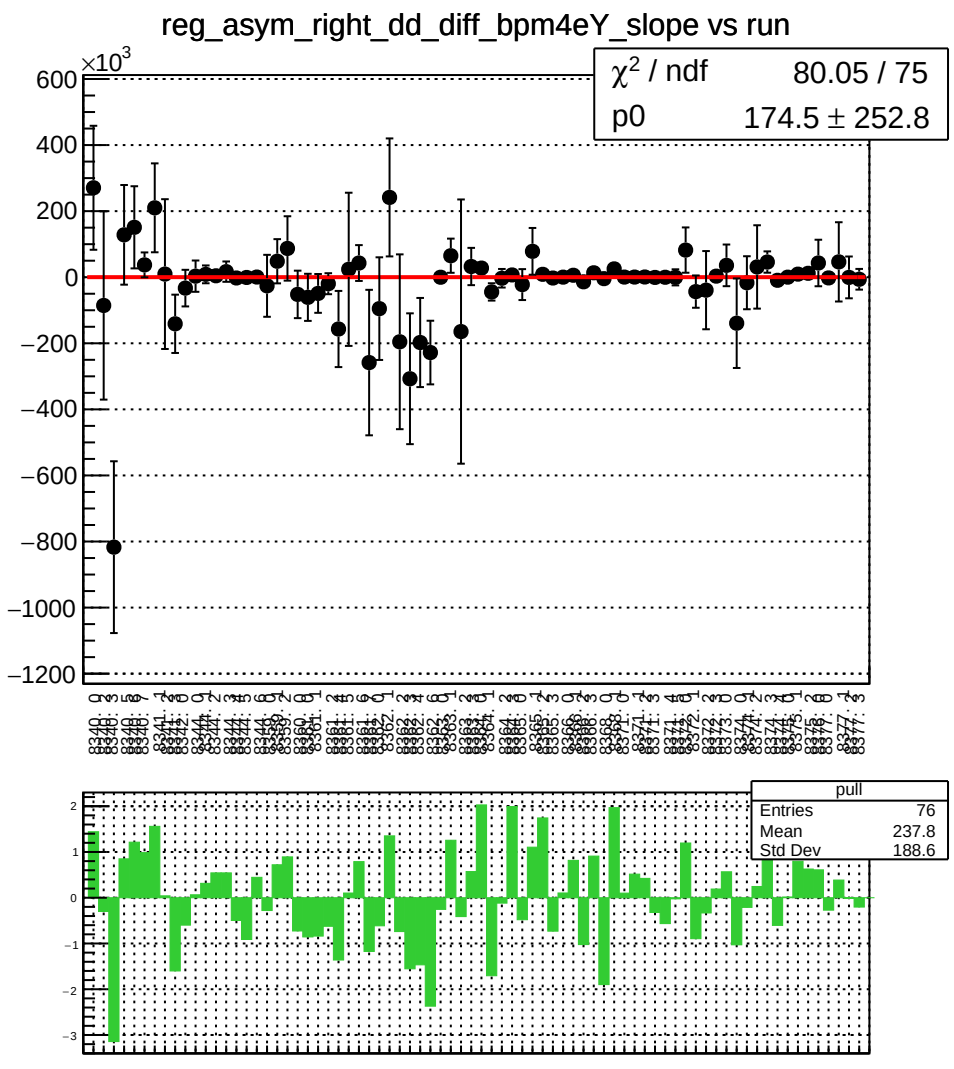

reg_asym_right_dd_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 61.43 / 76
p0 91.99 ± 122
pull
Entries 77
Mean 28.14
Std Dev 16.03
pull1D
Entries 77
Mean −0.2162
Std Dev 0.8666

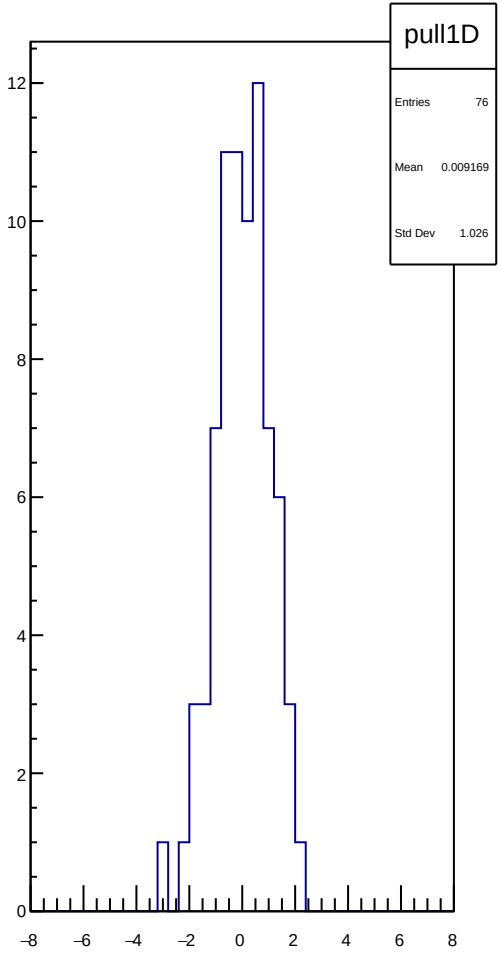

reg_asym_right_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 79.94 / 75
p0 −153.7 ± 244.9
1000
800
600
400
200
0
−200
−400
pull
Entries 76
Mean 197.2
Std Dev 150.7
3
2
1
0
−1
−2

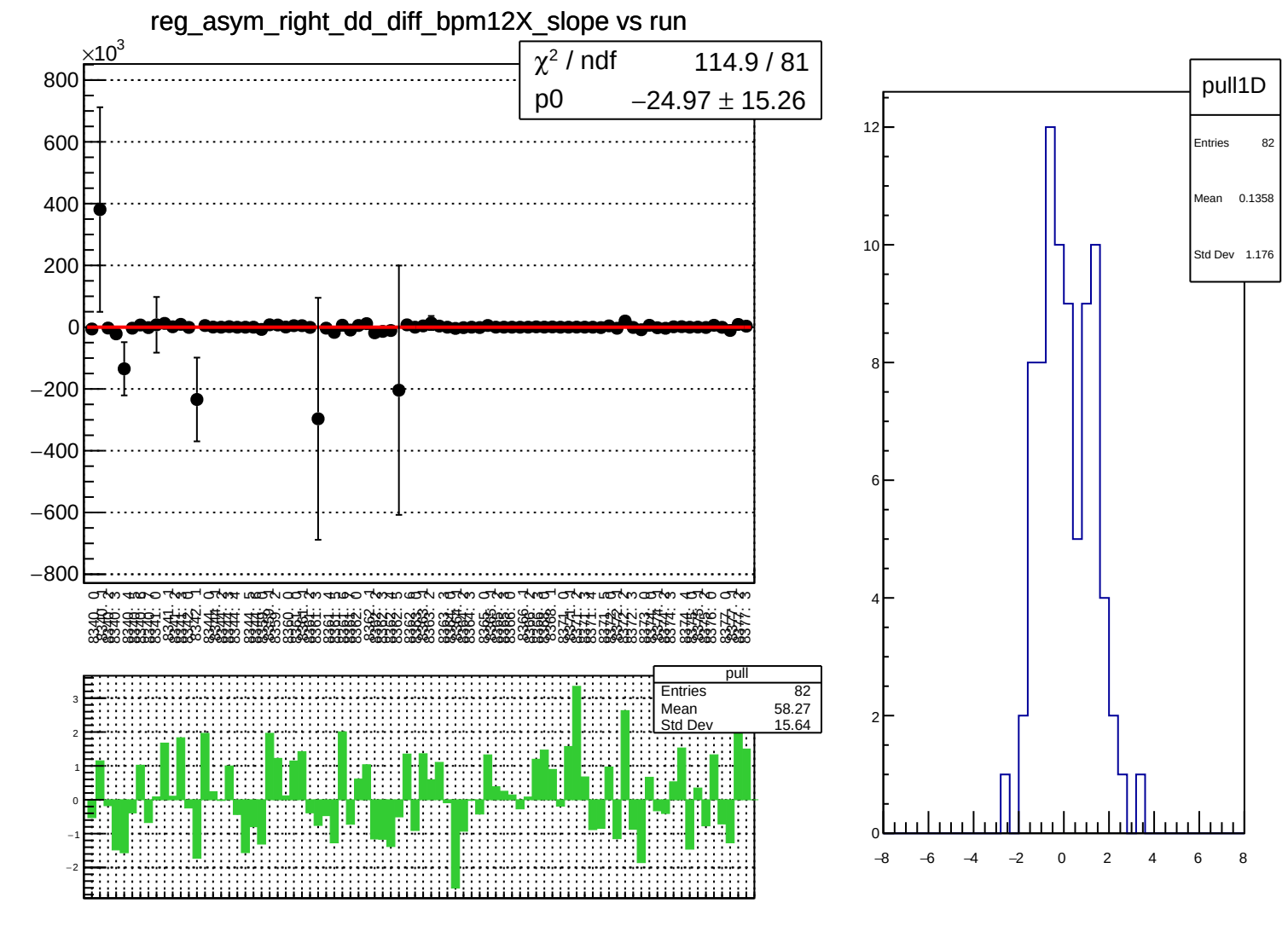

pull1D
Entries 76
Mean −0.01249
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

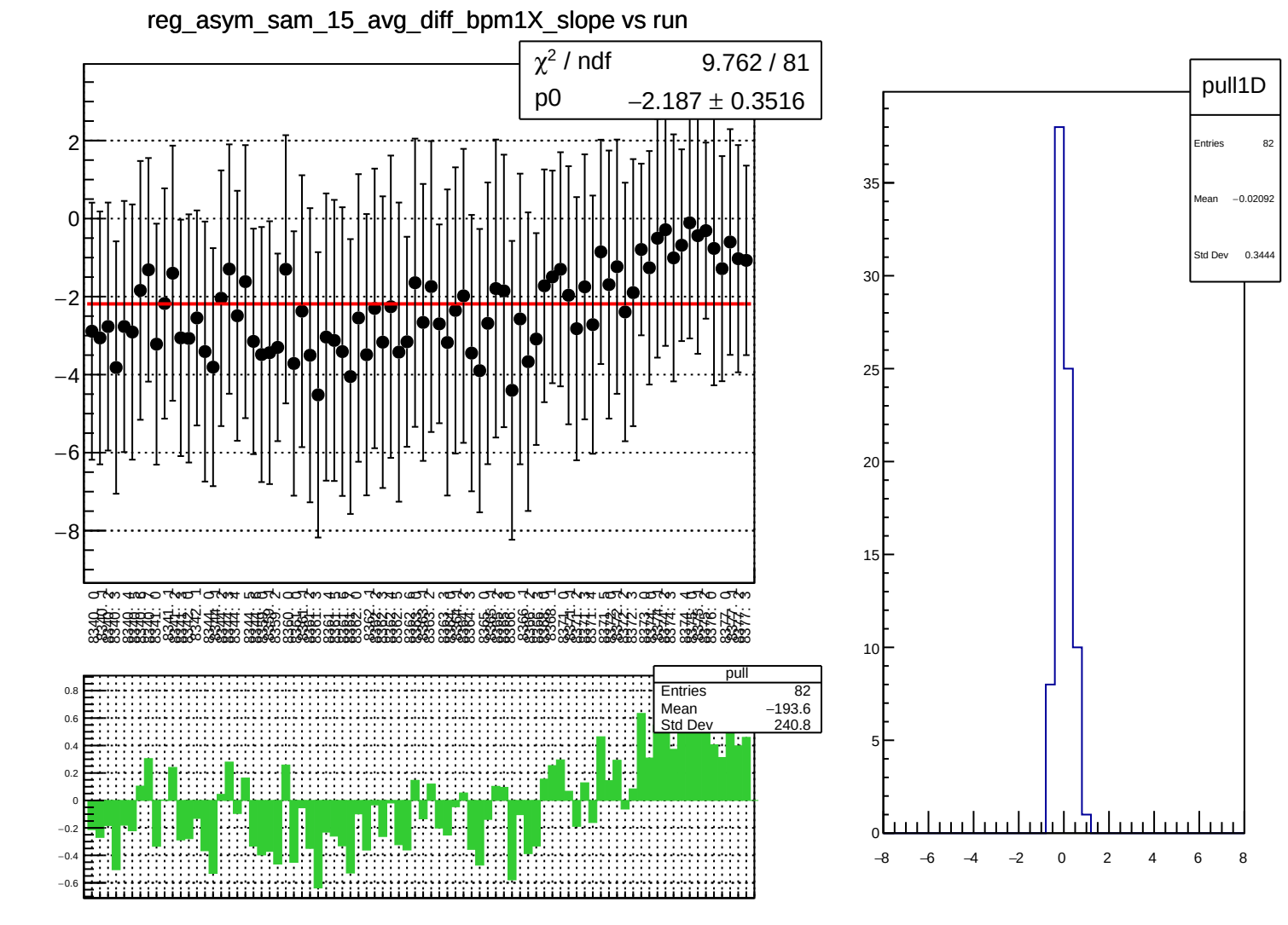

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.89 / 76
p0 −61.08 ± 139.6
pull
Entries 77
Mean 30.59
Std Dev 17.61

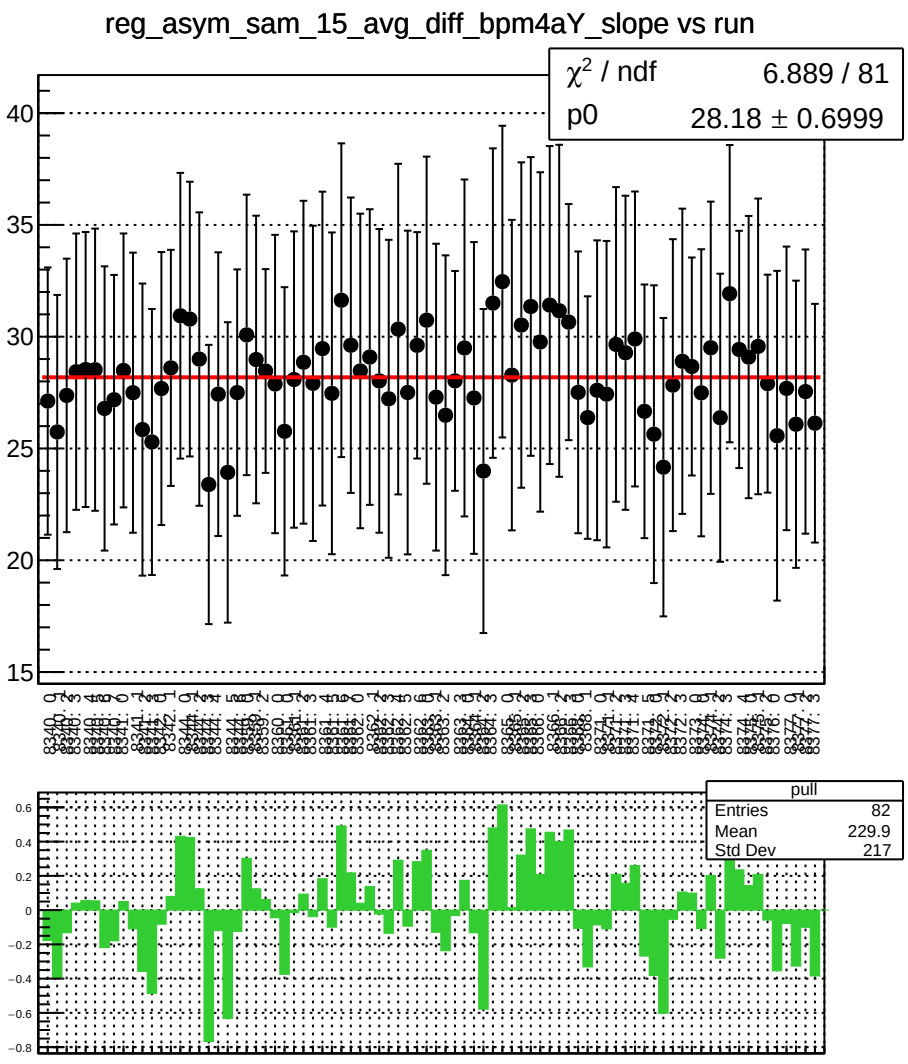

pull1D
Entries 77
Mean 0.2082
Std Dev 0.9156

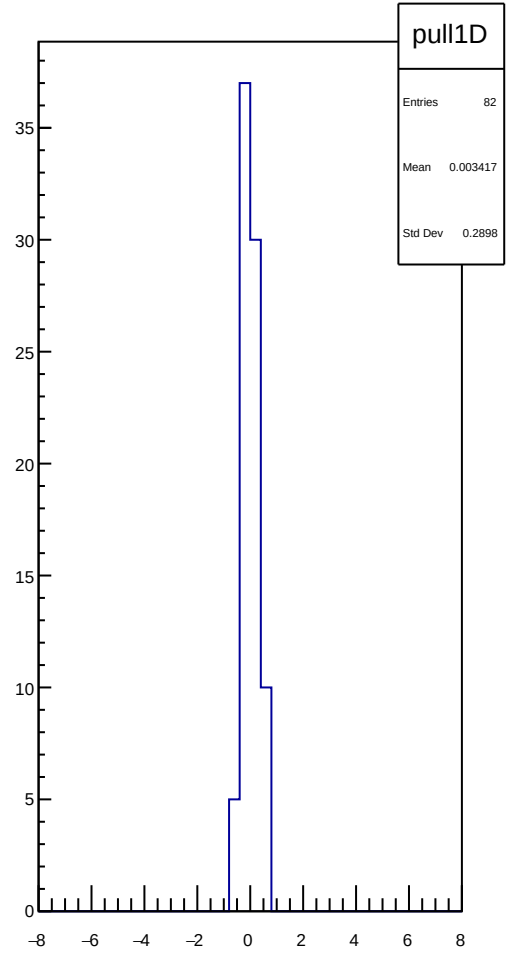

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.05 / 75
p0 174.5 ± 252.8
×10³
pull
Entries 76
Mean 237.8
Std Dev 188.6

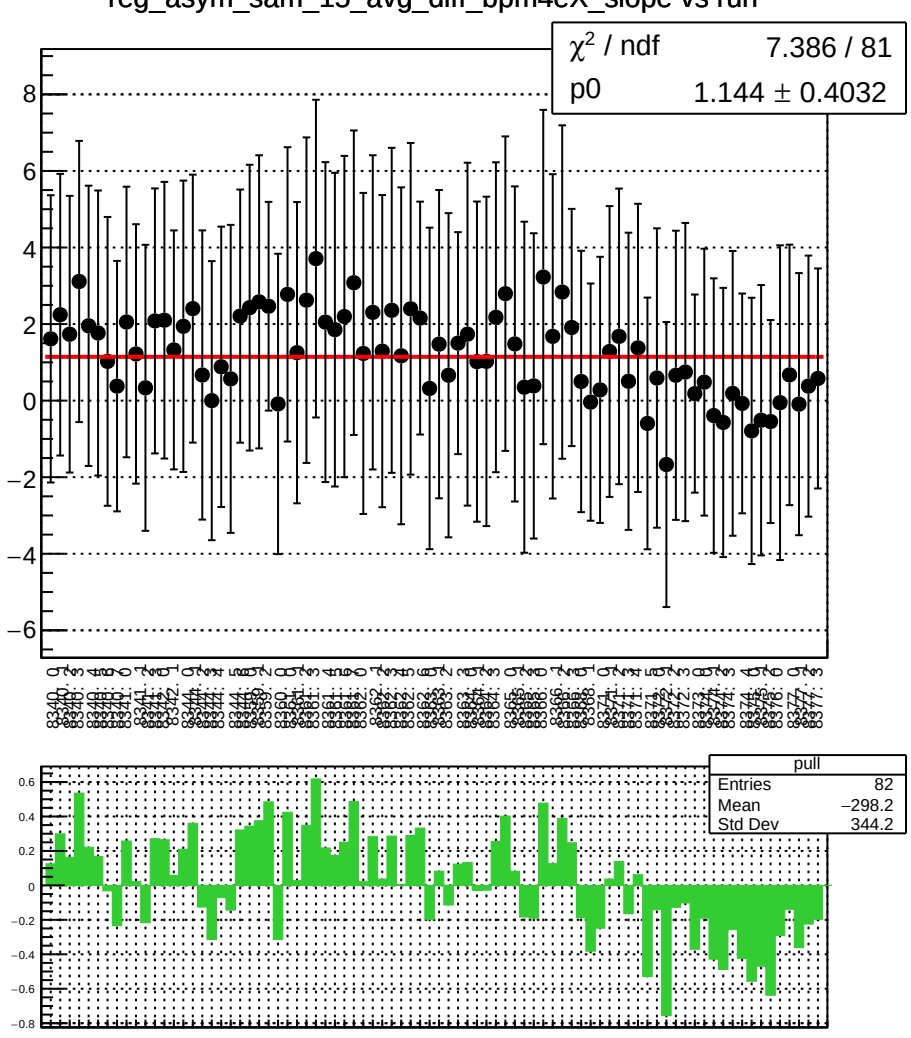

pull1D
Entries 76
Mean 0.009169
Std Dev 1.026

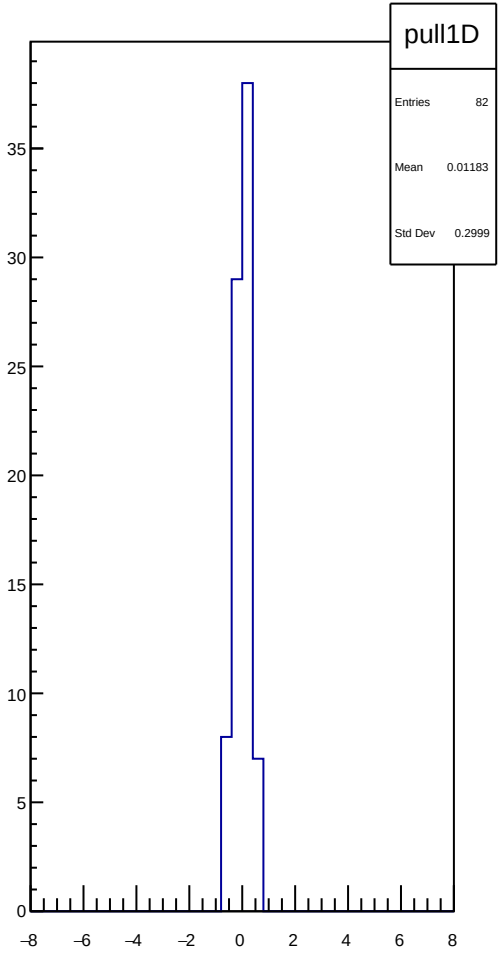

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 114.9 / 81
p0 −24.97 ± 15.26
pull
Entries 82
Mean 58.27
Std Dev 15.64
pull1D
Entries 82
Mean 0.1358
Std Dev 1.176

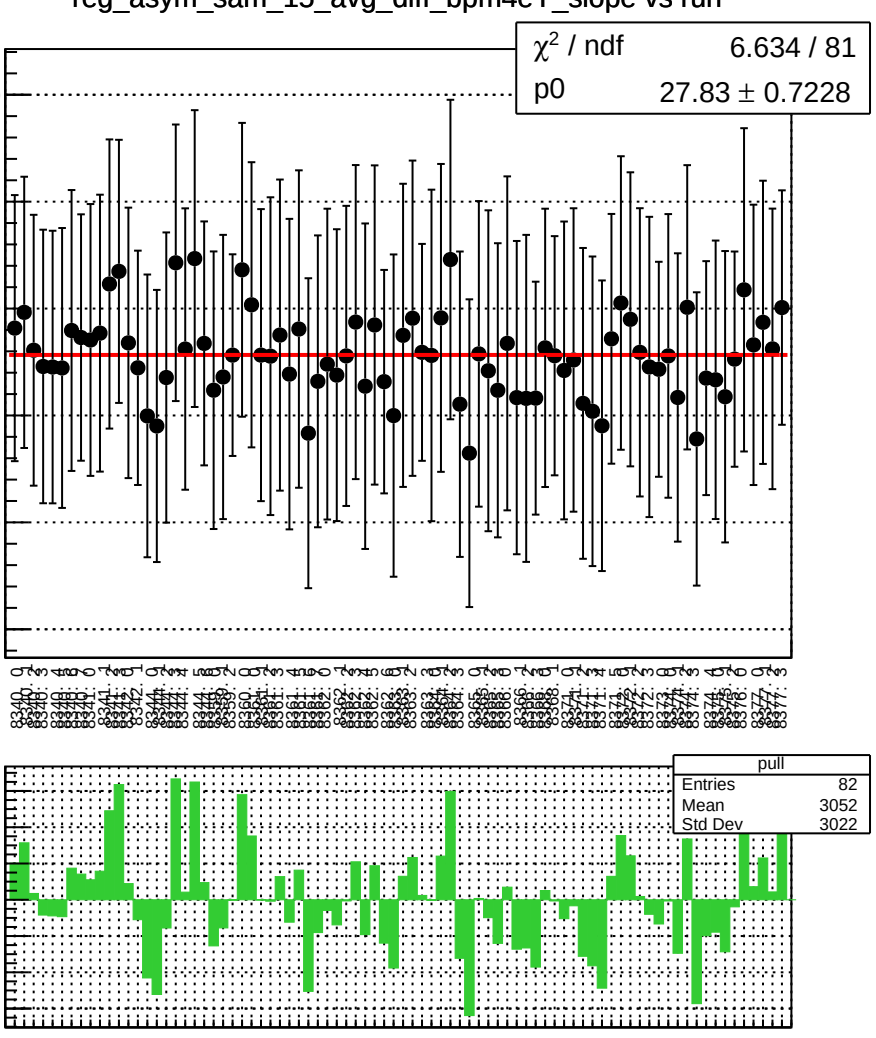

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 9.762 / 81
p0 −2.187 ± 0.3516
pull
Entries 82
Mean −193.6
Std Dev 240.8
pull1D
Entries 82
Mean −0.02092
Std Dev 0.3444

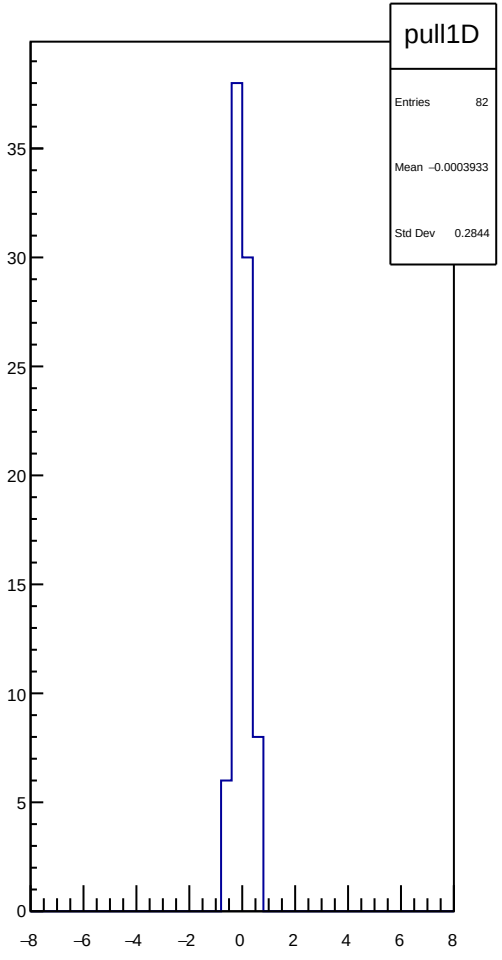

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.889 / 81
p0 28.18 ± 0.6999
pull
Entries 82
Mean 229.9
Std Dev 217

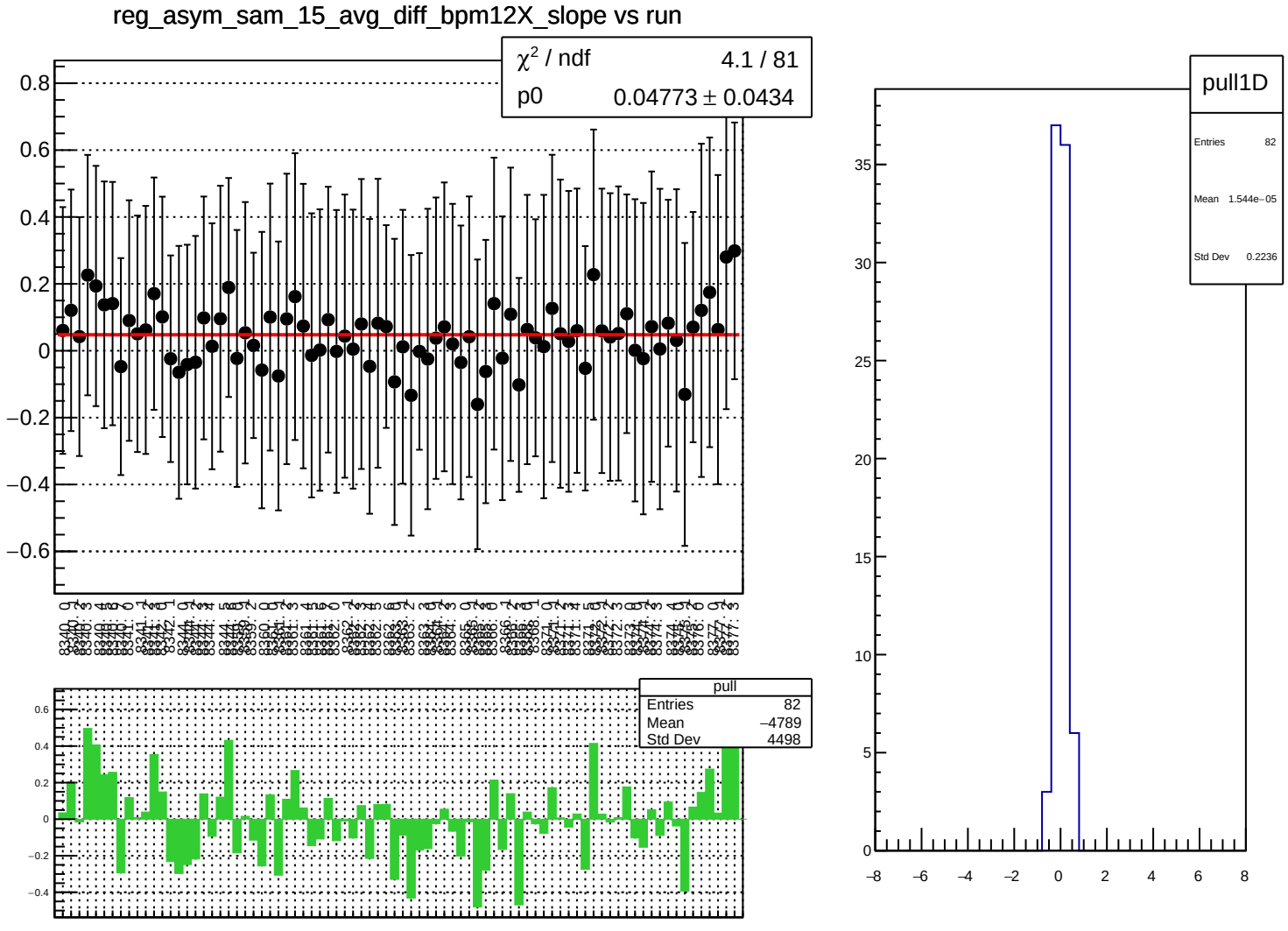

pull1D
Entries 82
Mean 0.003417
Std Dev 0.2898

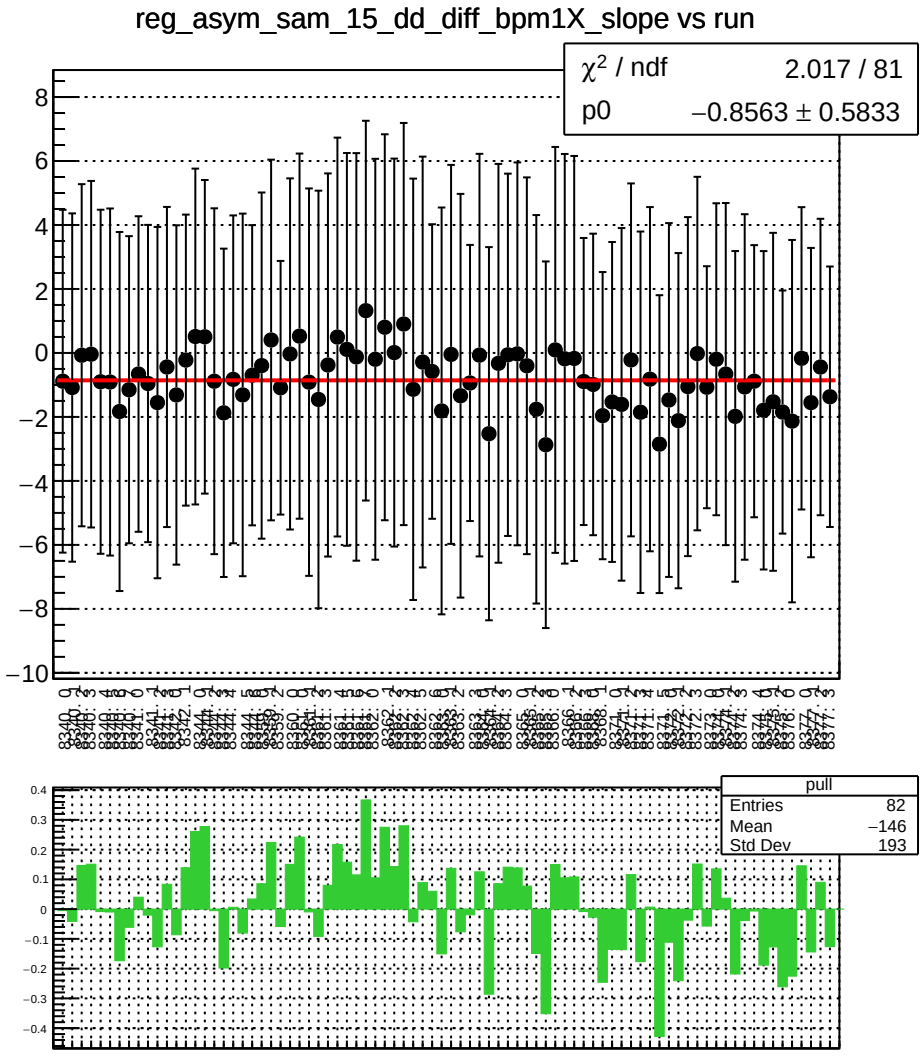

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.386 / 81
p0 1.144 ± 0.4032
pull
Entries 82
Mean −298.2
Std Dev 344.2

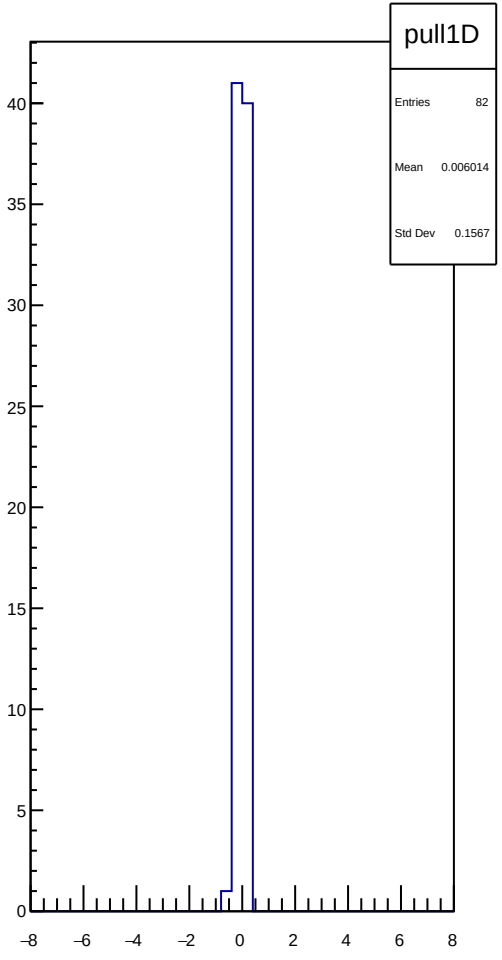

pull1D
Entries 82
Mean 0.01183
Std Dev 0.2999

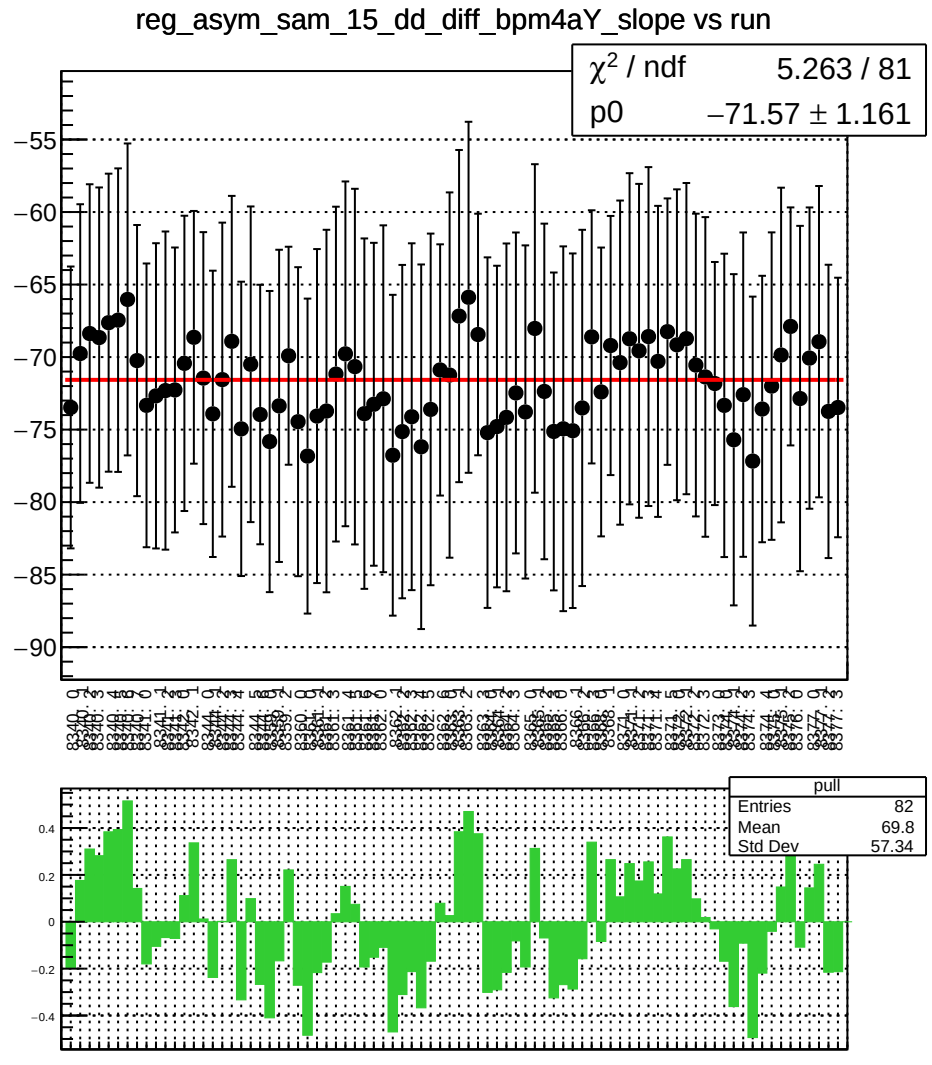

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.634 / 81
p0 27.83 ± 0.7228
pull
Entries 82
Mean 3052
Std Dev 3022

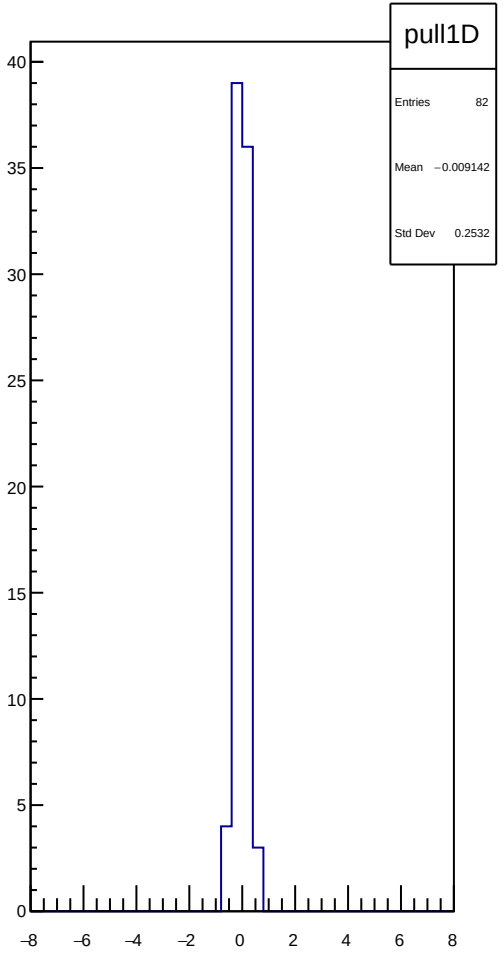

pull1D
Entries 82
Mean −0.0003933
Std Dev 0.2844

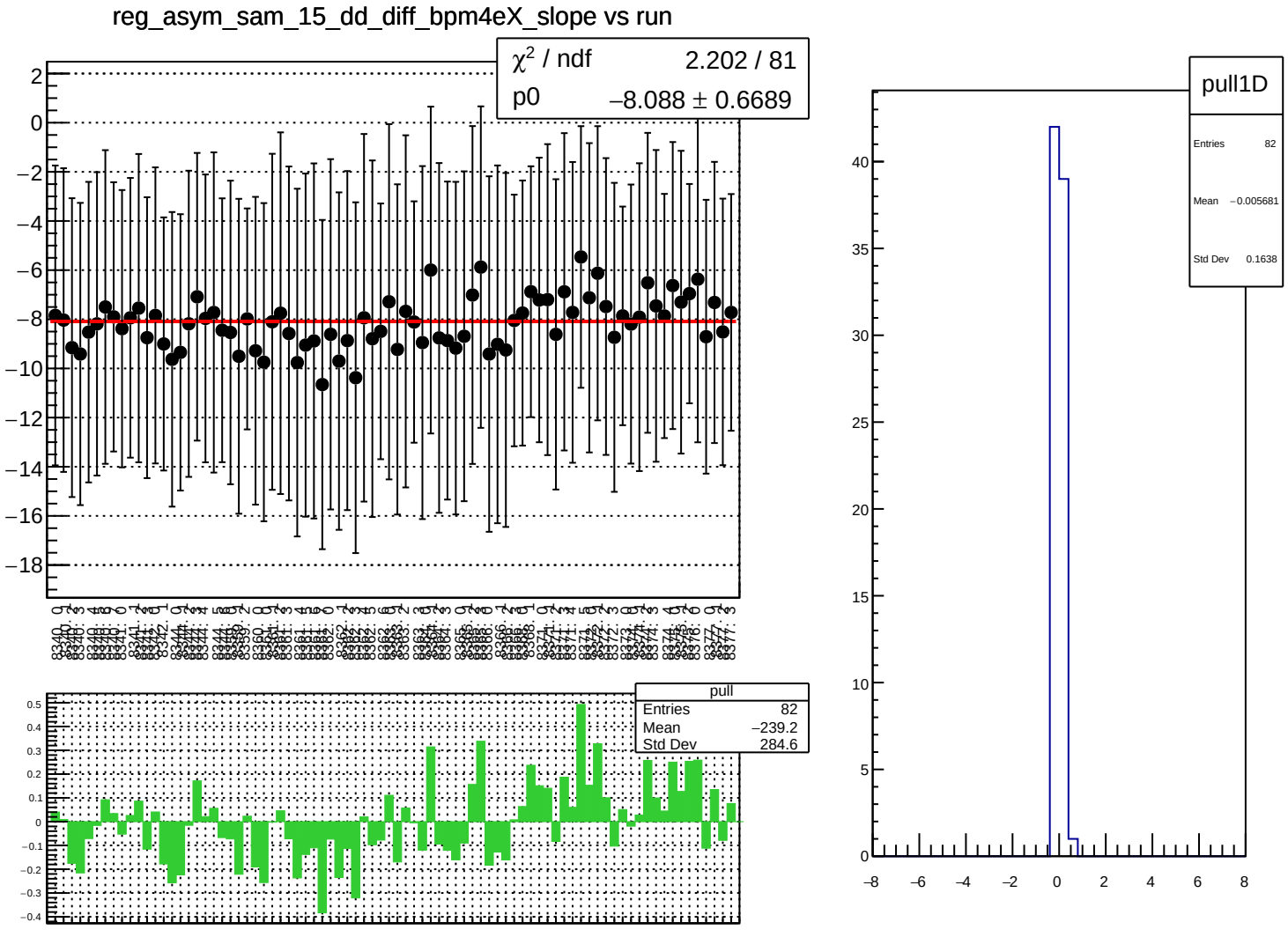

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 4.1 / 81
p0 0.04773 ± 0.0434
pull
Entries 82
Mean −4789
Std Dev 4498
pull1D
Entries 82
Mean 1.544e−05
Std Dev 0.2236

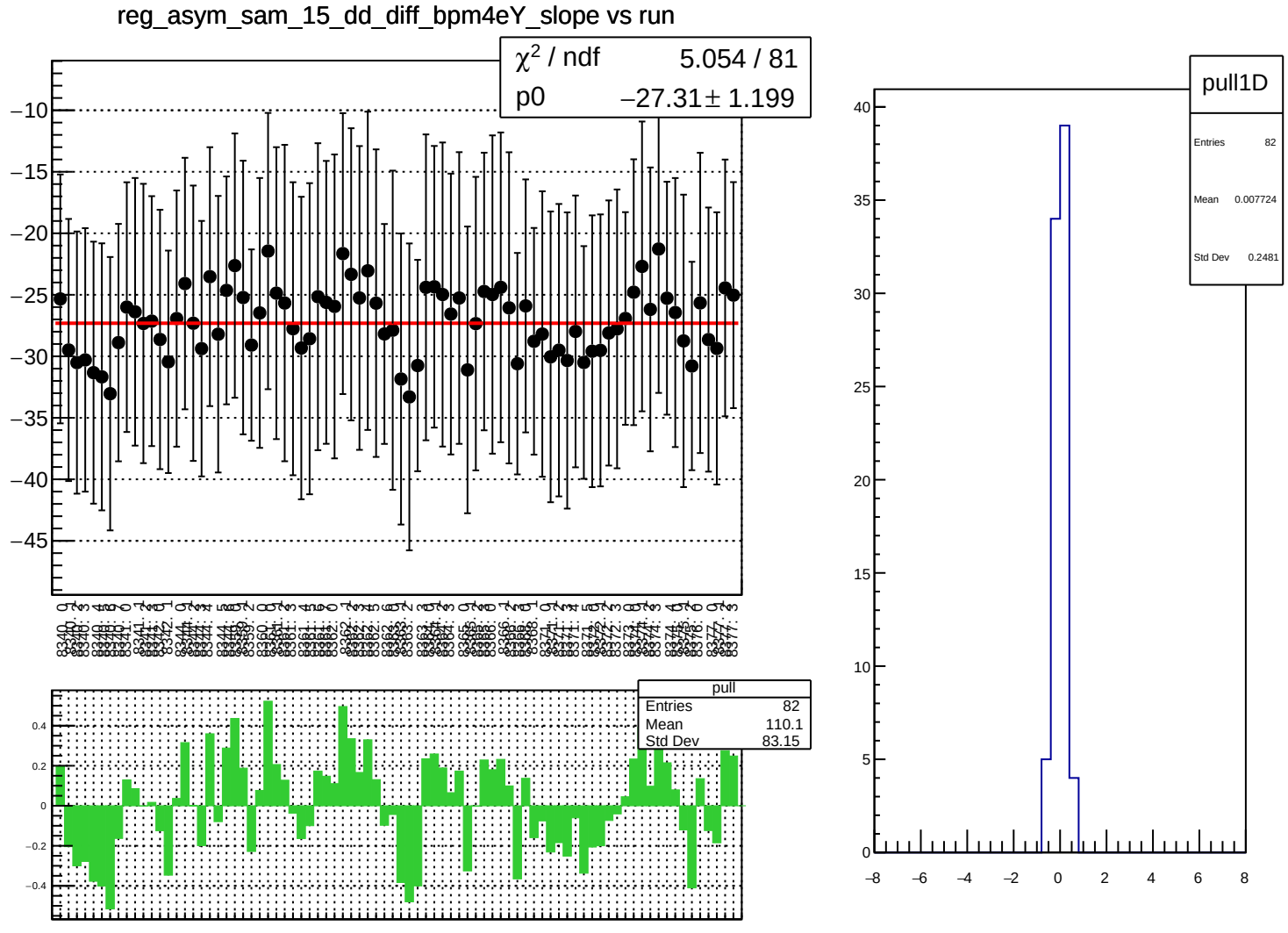

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 2.017 / 81
p0 −0.8563 ± 0.5833
pull
Entries 82
Mean −146
Std Dev 193

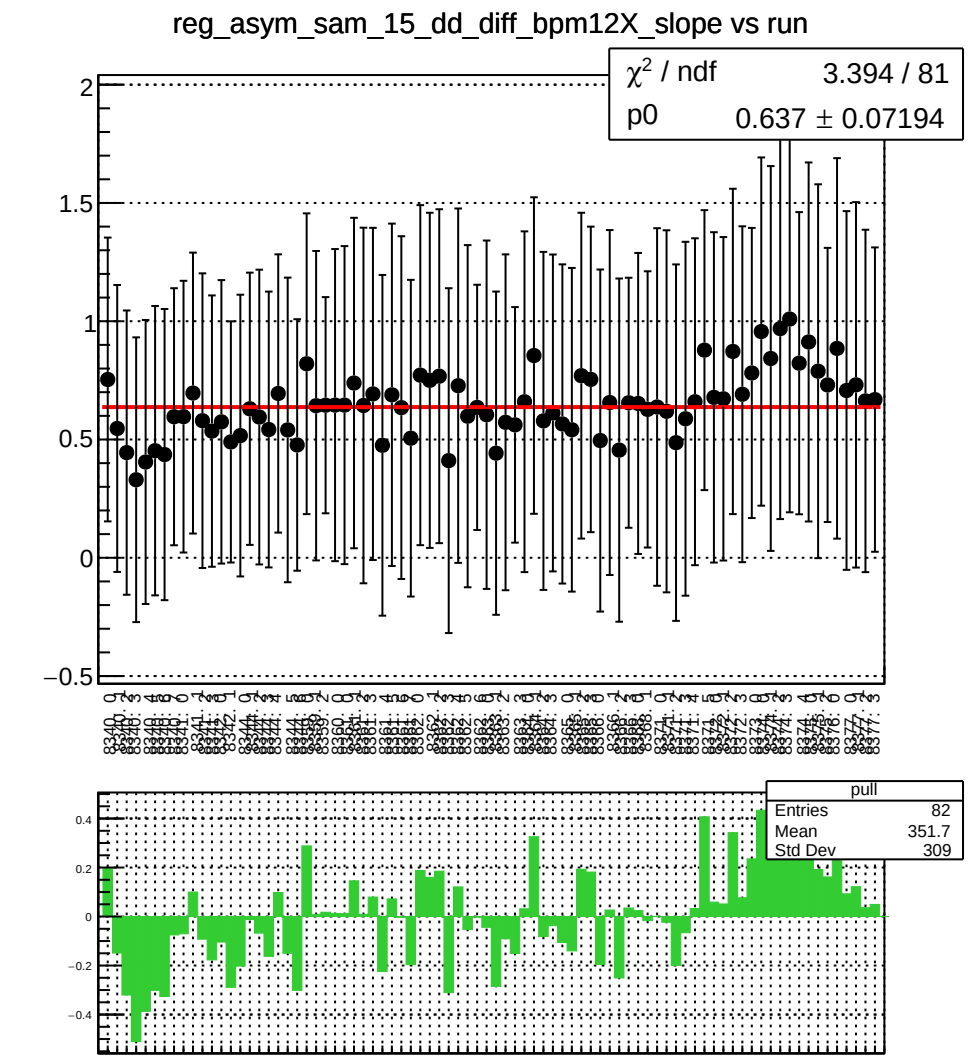

pull1D
Entries 82
Mean 0.006014
Std Dev 0.1567

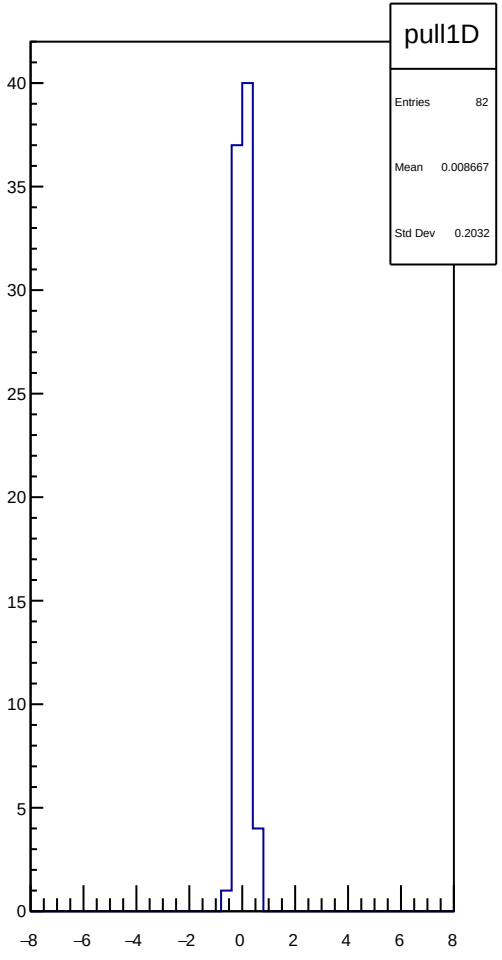

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.263 / 81
p0 −71.57 ± 1.161
pull
Entries 82
Mean 69.8
Std Dev 57.34

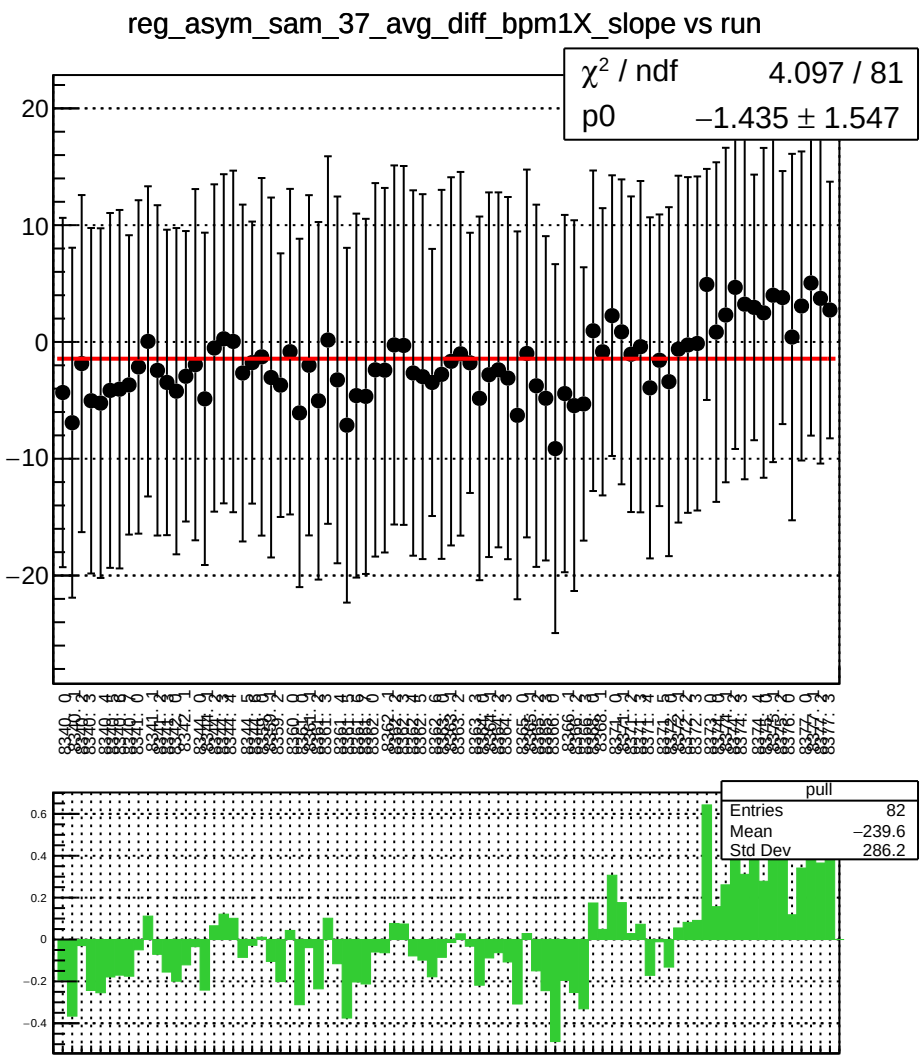

pull1D
Entries 82
Mean −0.009142
Std Dev 0.2532

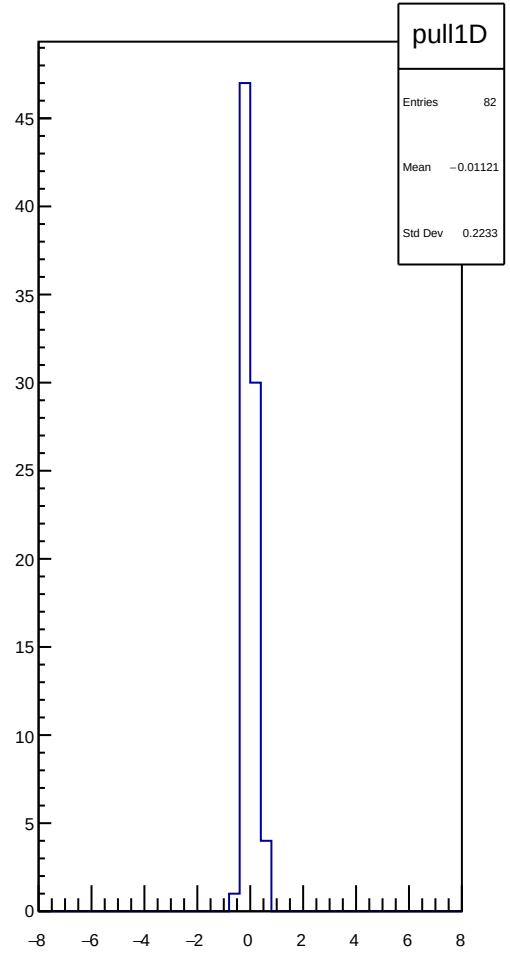

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.202 / 81
p0 −8.088 ± 0.6689
pull
Entries 82
Mean −239.2
Std Dev 284.6
pull1D
Entries 82
Mean −0.005681
Std Dev 0.1638

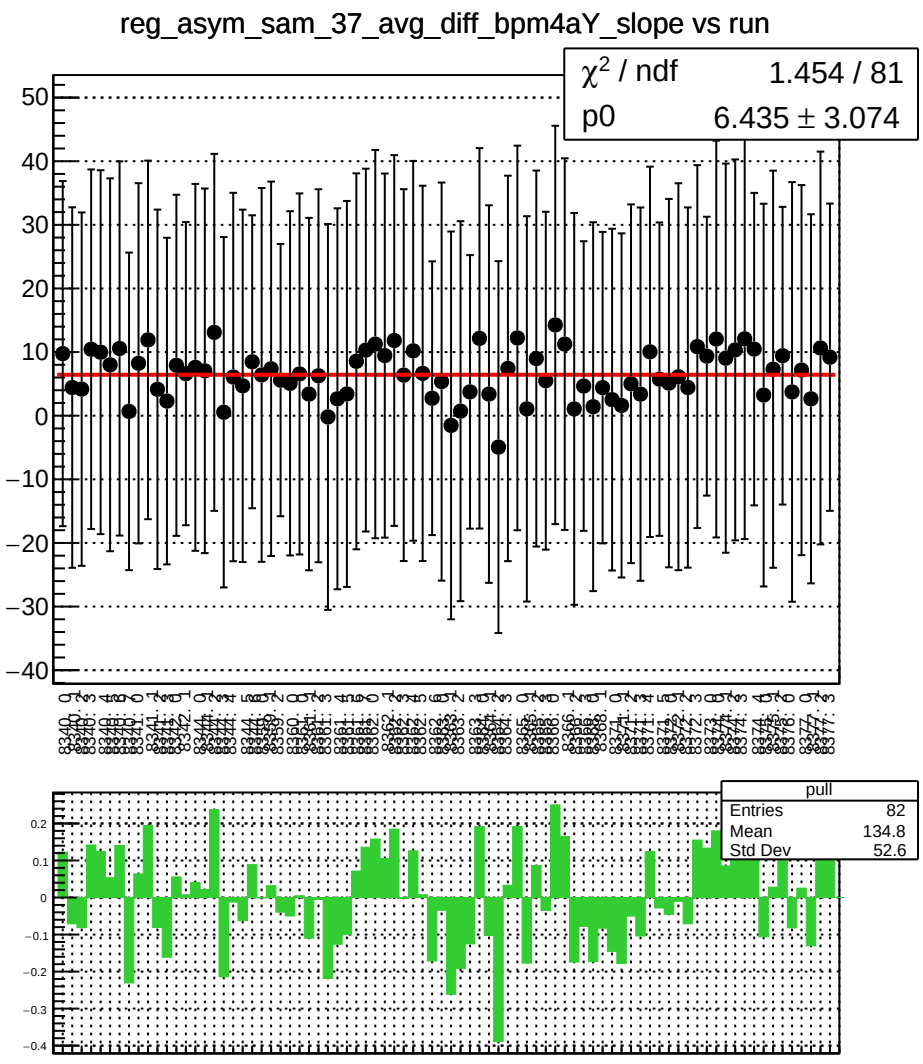

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.054 / 81
p0 −27.31 ± 1.199
pull
Entries 82
Mean 110.1
Std Dev 83.15
pull1D
Entries 82
Mean 0.007724
Std Dev 0.2481

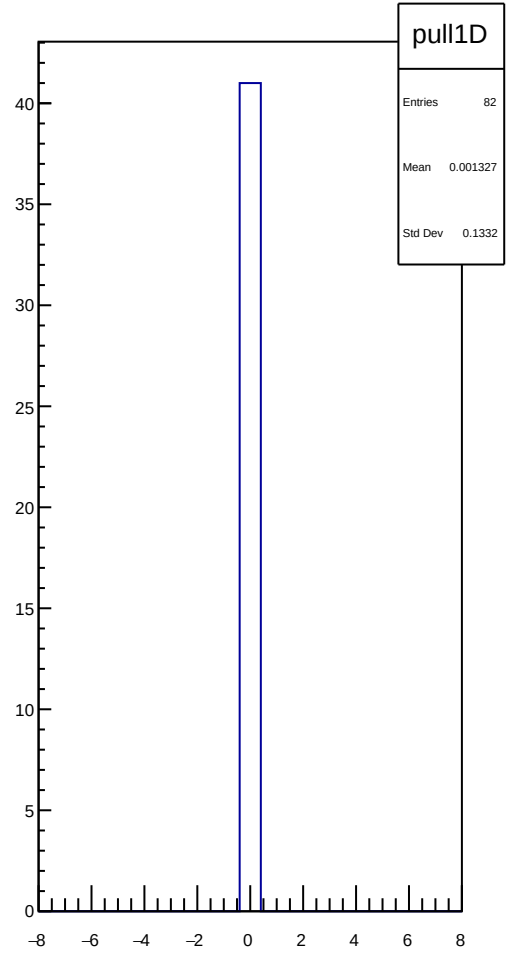

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 3.394 / 81
p0 0.637 ± 0.07194
pull
Entries 82
Mean 351.7
Std Dev 309

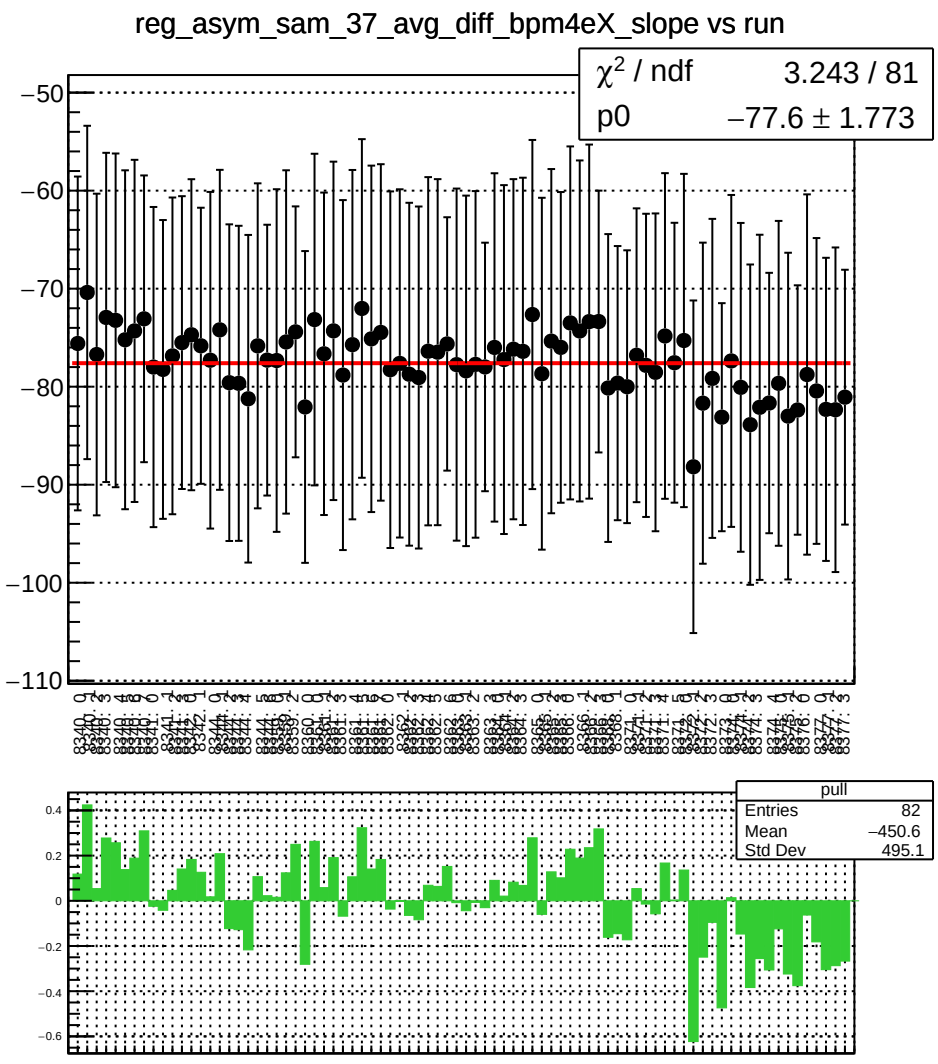

pull1D
Entries 82
Mean 0.008667
Std Dev 0.2032

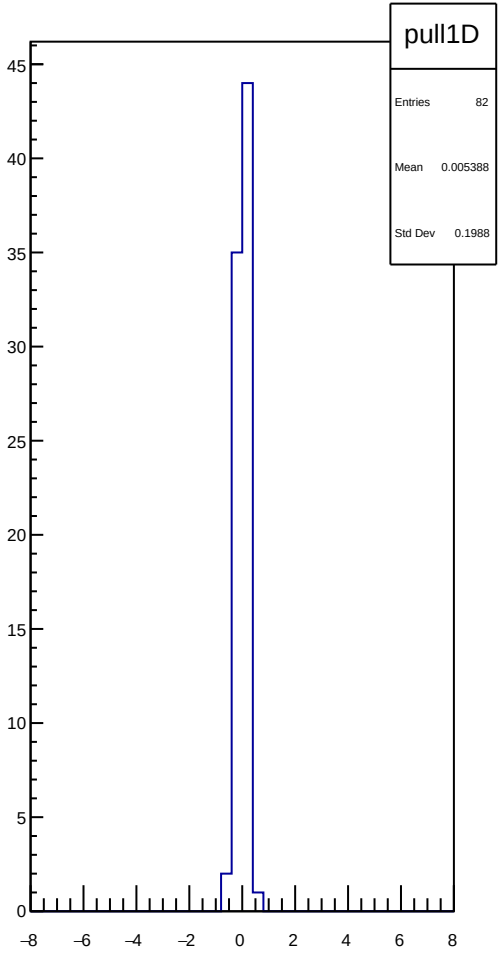

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 4.097 / 81
p0 −1.435 ± 1.547
pull
Entries 82
Mean −239.6
Std Dev 286.2

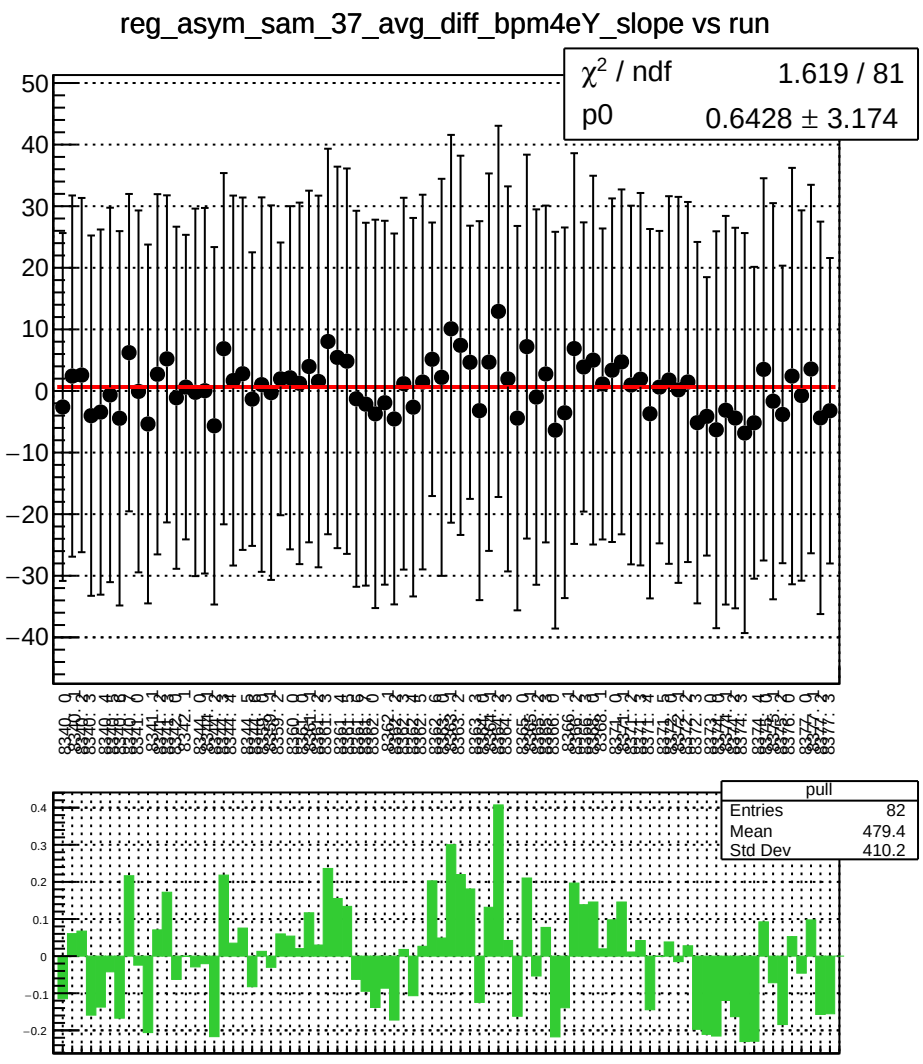

pull1D
Entries 82
Mean −0.01121
Std Dev 0.2233

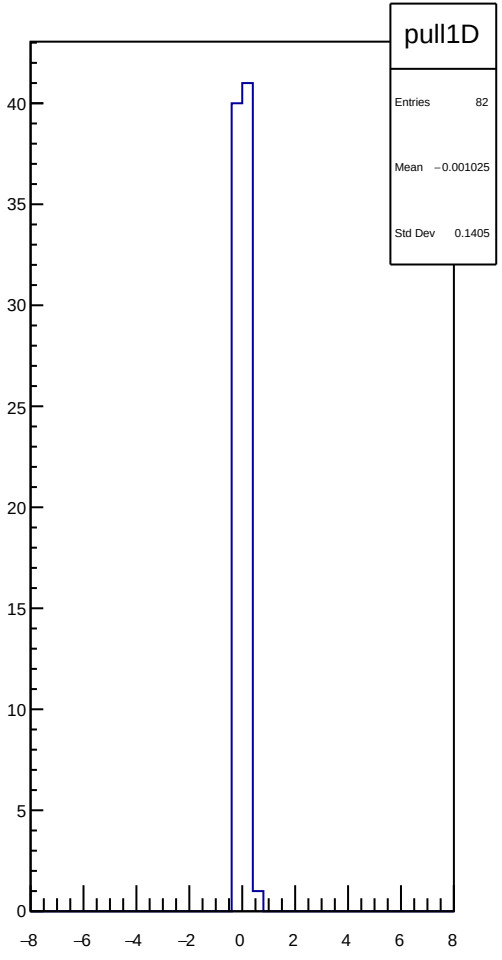

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.454 / 81
p0 6.435 ± 3.074
pull
Entries 82
Mean 134.8
Std Dev 52.6

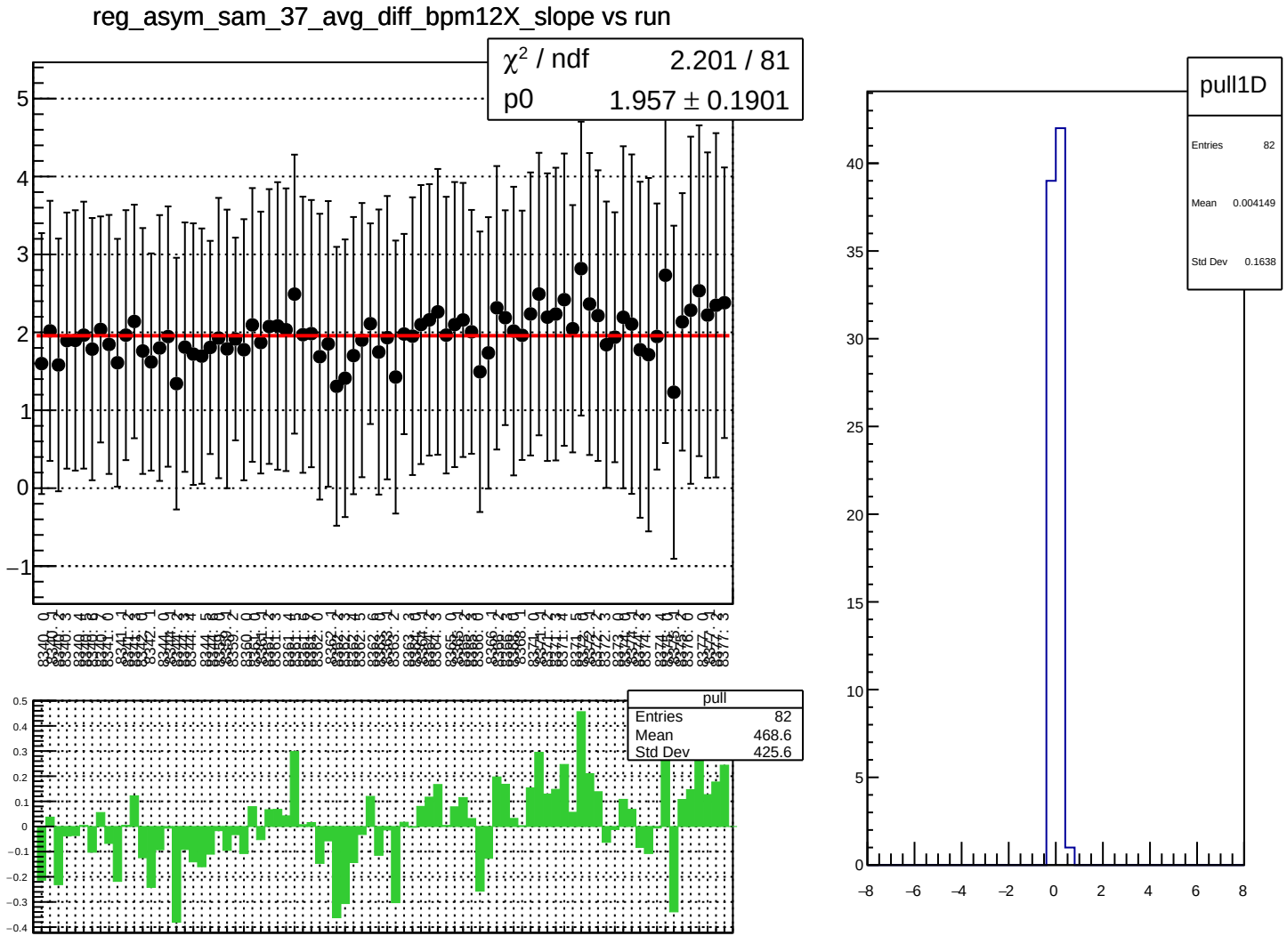

pull1D
Entries 82
Mean 0.001327
Std Dev 0.1332

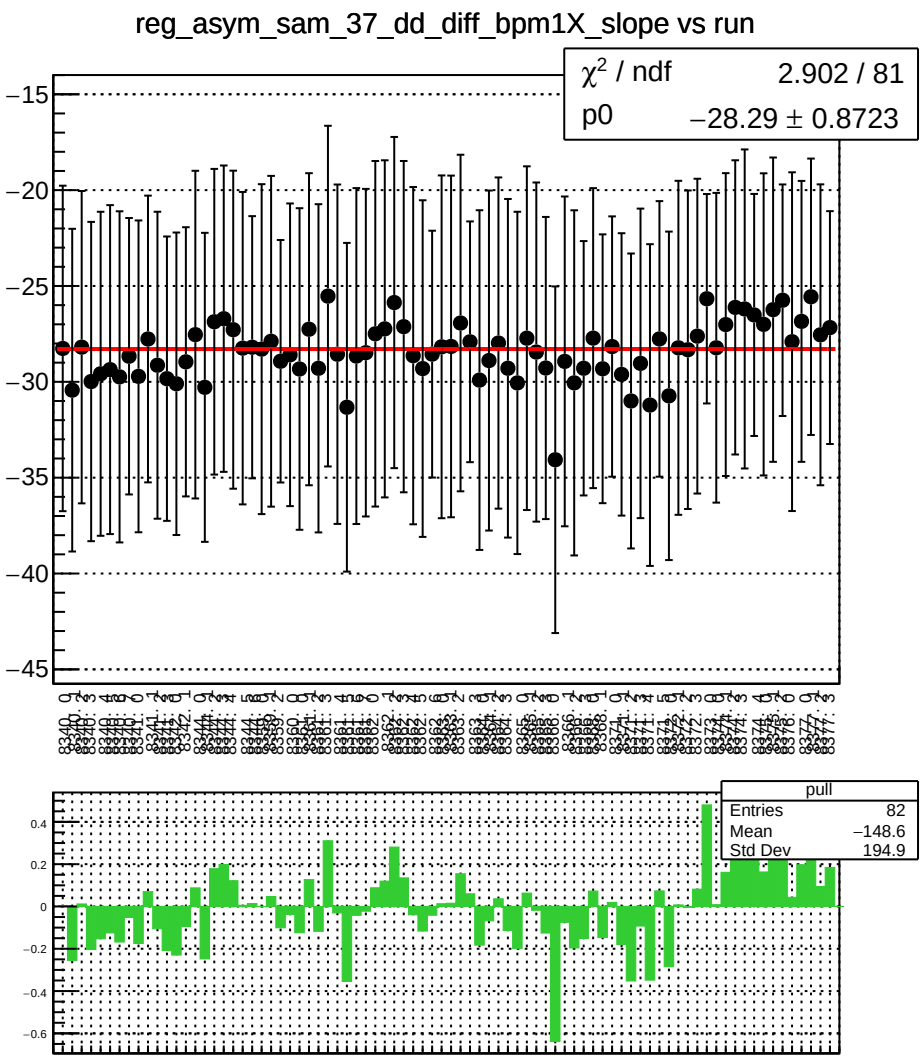

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.243 / 81
p0 −77.6 ± 1.773
pull
Entries 82
Mean −450.6
Std Dev 495.1

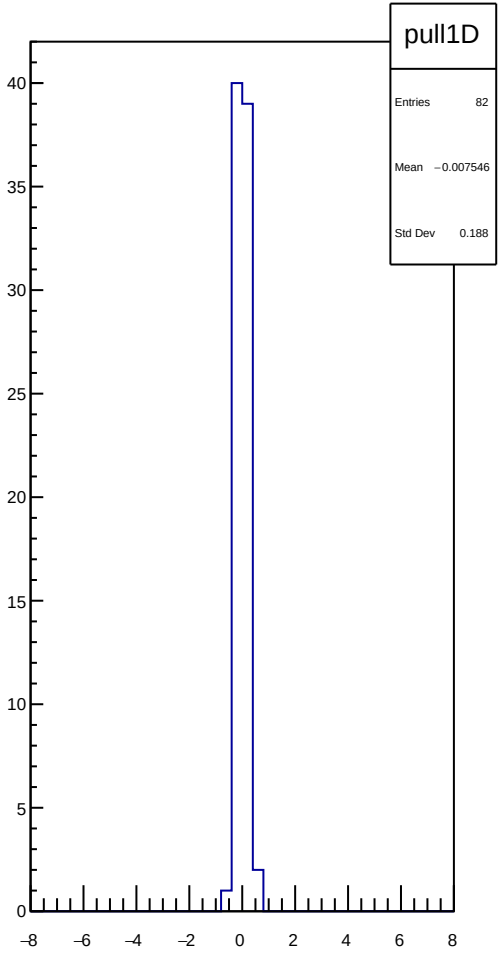

pull1D
Entries 82
Mean 0.005388
Std Dev 0.1988

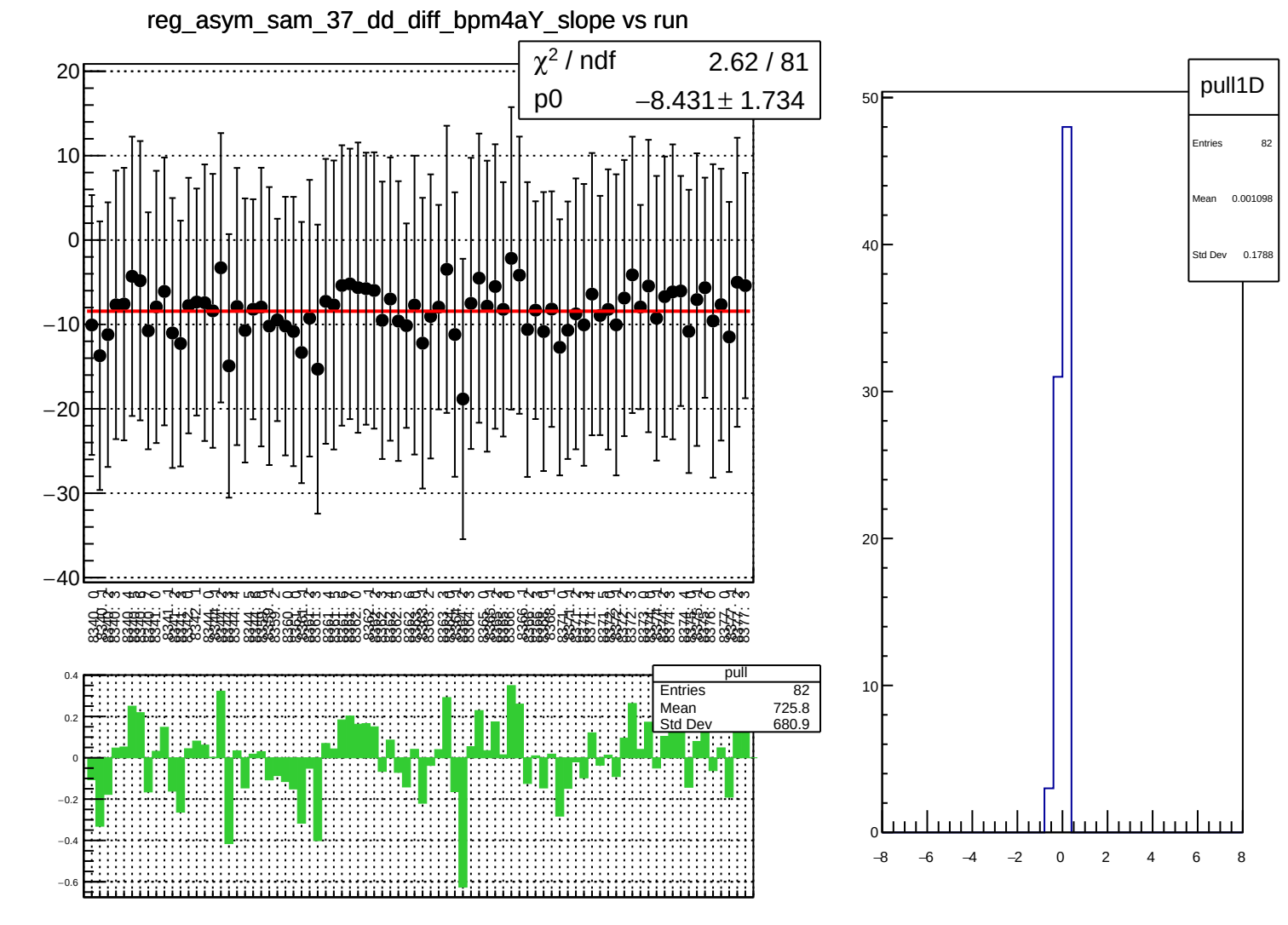

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.619 / 81
p0 0.6428 ± 3.174
pull
Entries 82
Mean 479.4
Std Dev 410.2

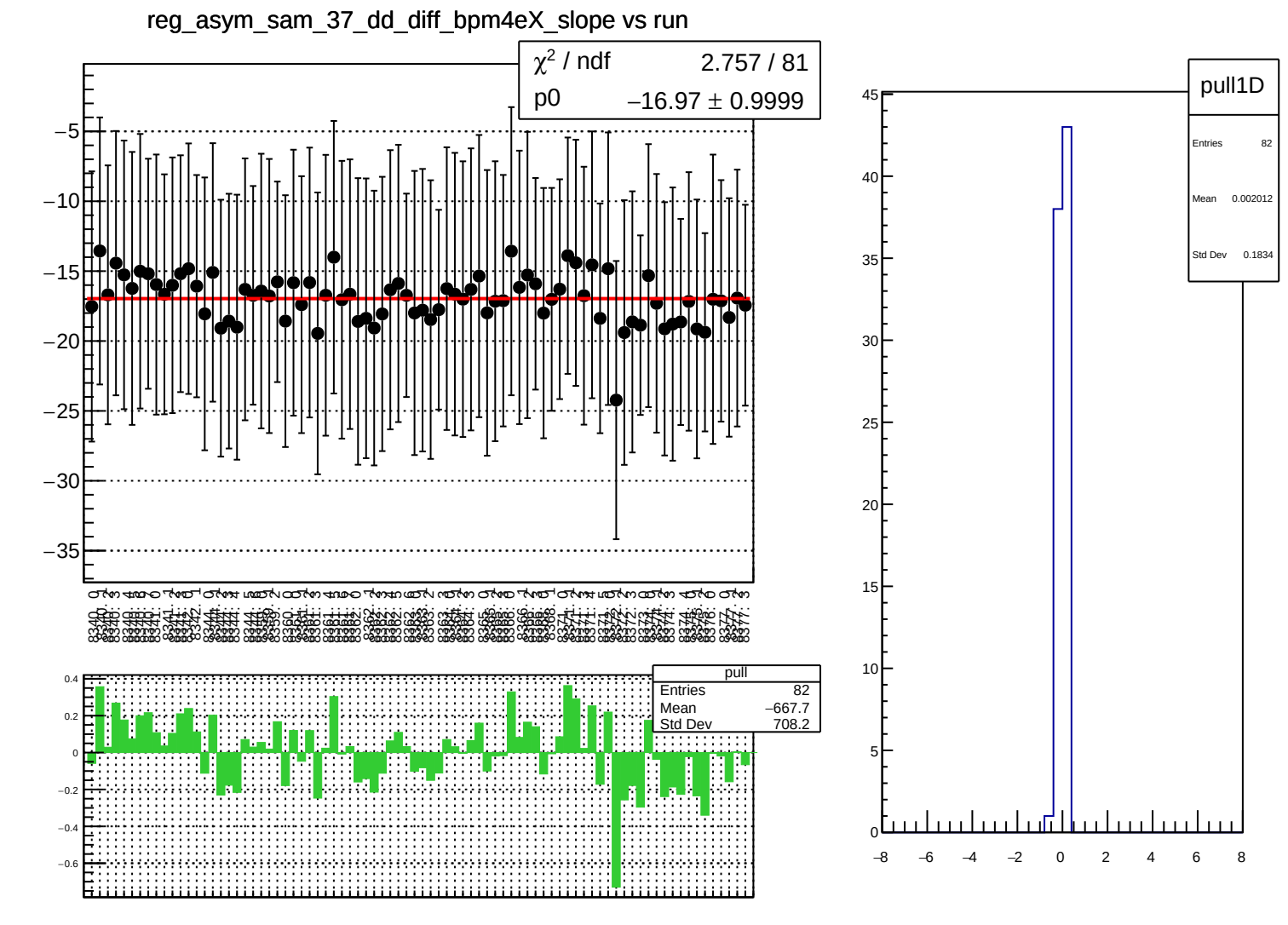

pull1D
Entries 82
Mean −0.001025
Std Dev 0.1405

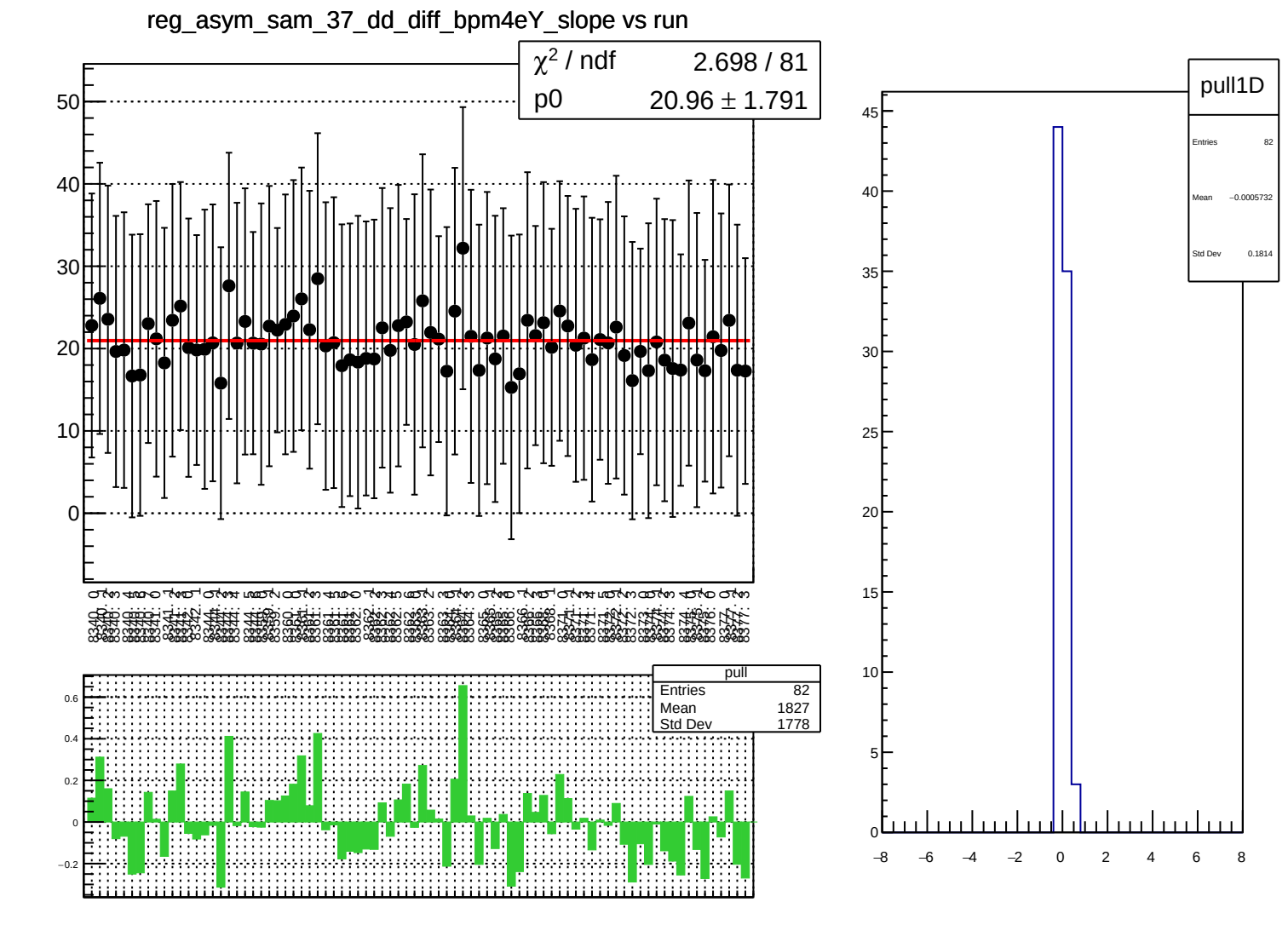

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 2.201 / 81
p0 1.957 ± 0.1901
pull
Entries 82
Mean 468.6
Std Dev 425.6
pull1D
Entries 82
Mean 0.004149
Std Dev 0.1638

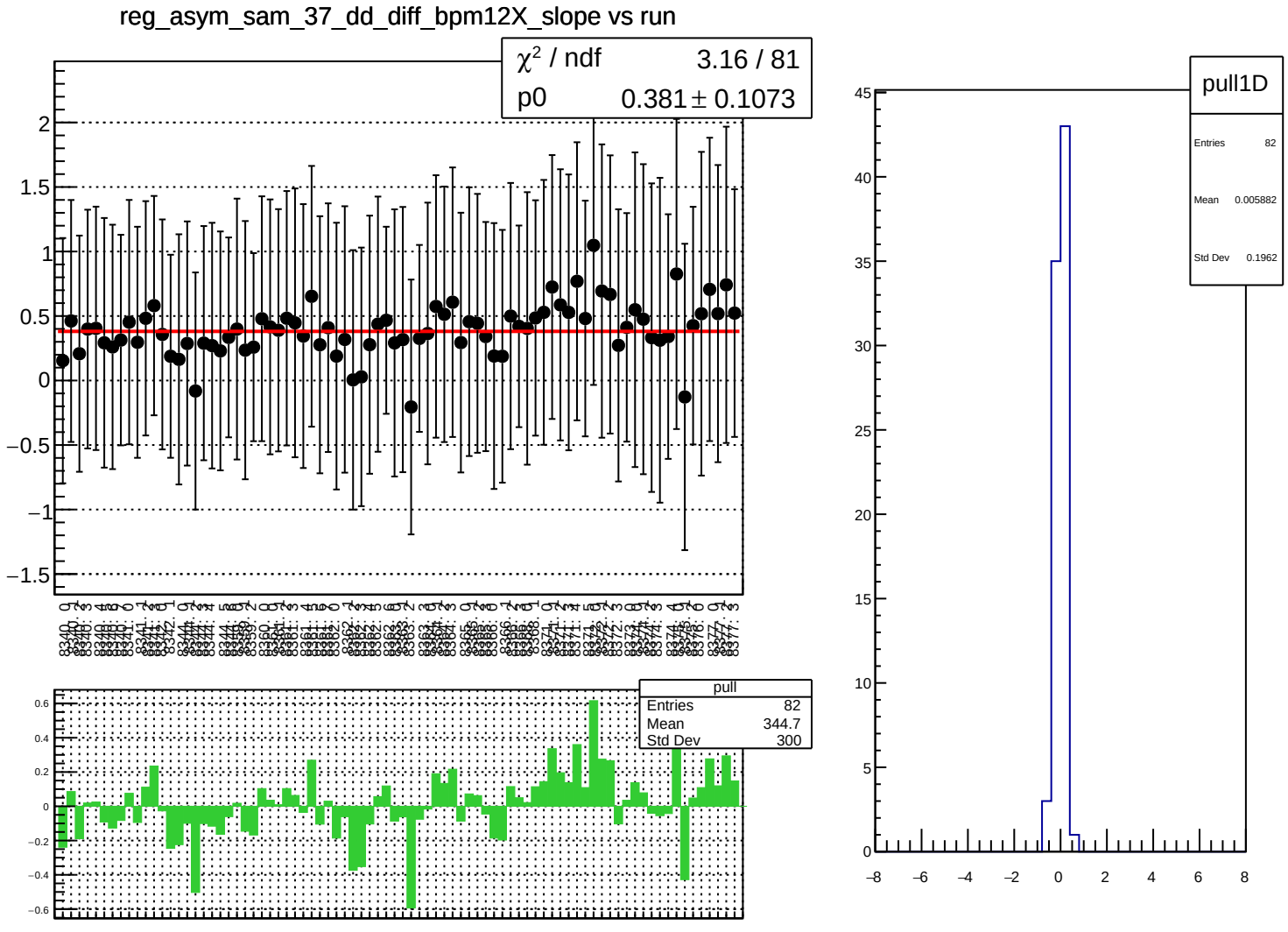

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 2.902 / 81
p0 −28.29 ± 0.8723
pull
Entries 82
Mean −148.6
Std Dev 194.9

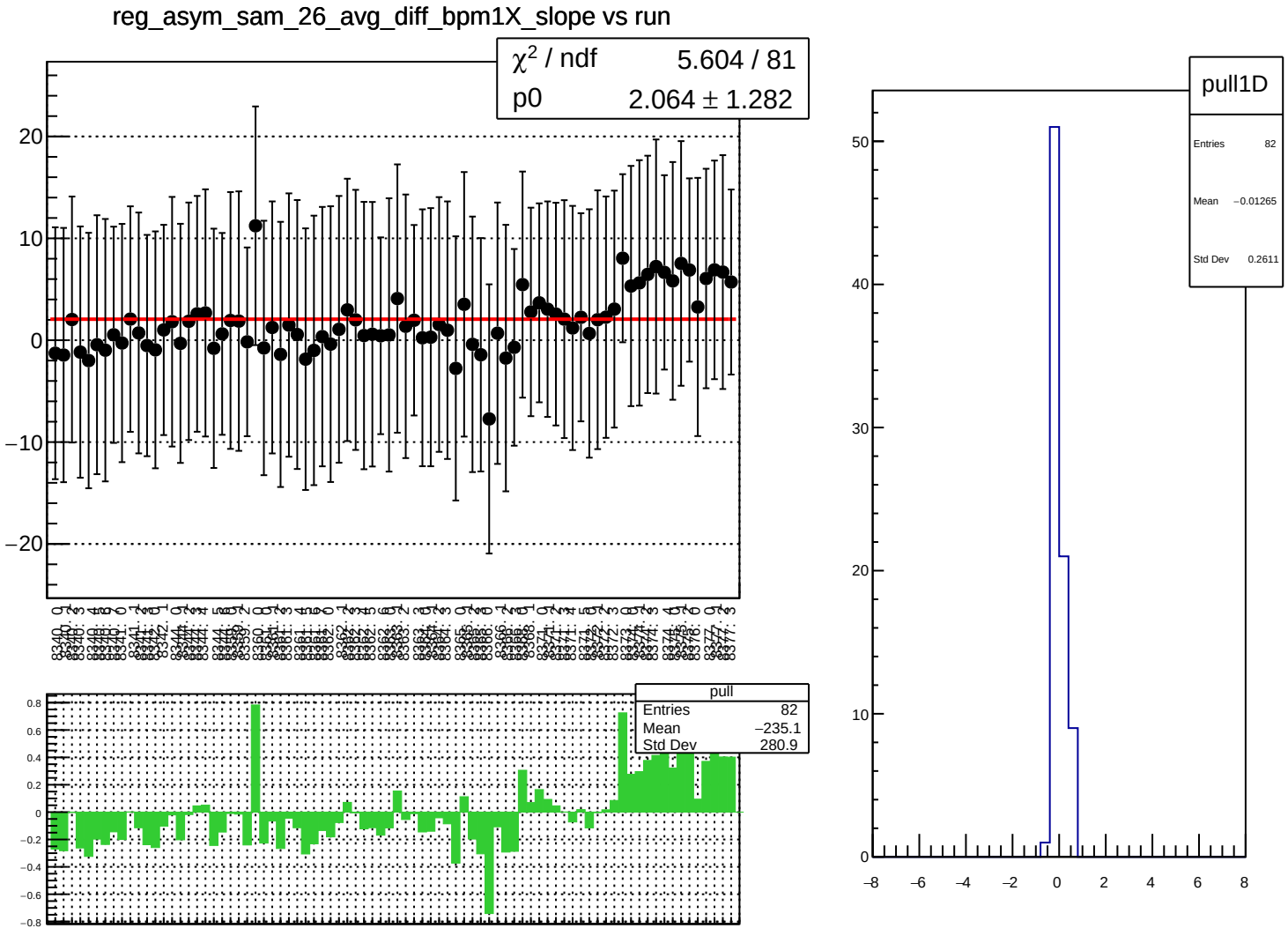

pull1D
Entries 82
Mean −0.007546
Std Dev 0.188

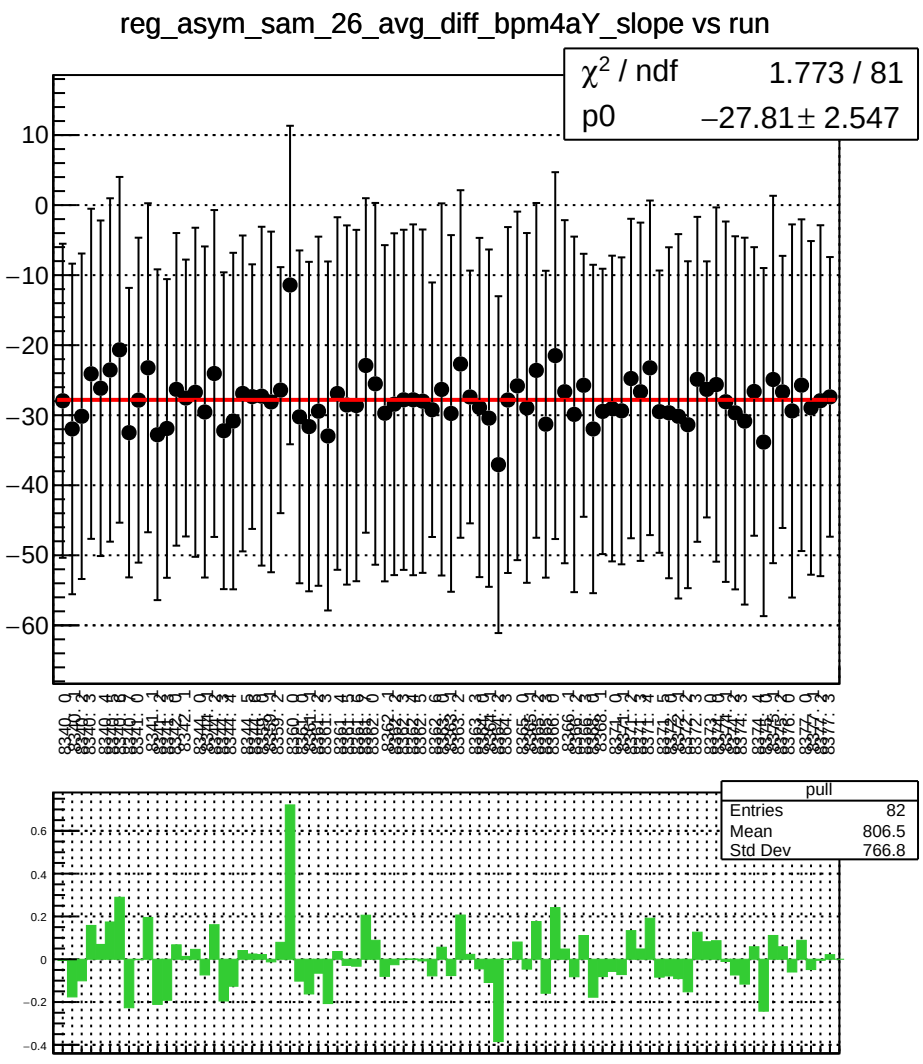

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.62 / 81
p0 −8.431 ± 1.734
pull
Entries 82
Mean 725.8
Std Dev 680.9
pull1D
Entries 82
Mean 0.001098
Std Dev 0.1788

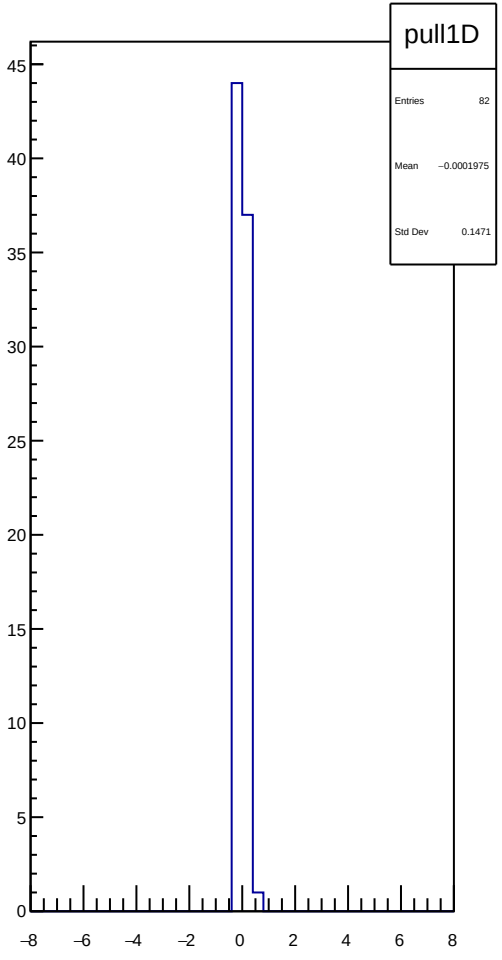

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.757 / 81
p0 −16.97 ± 0.9999
pull
Entries 82
Mean −667.7
Std Dev 708.2
pull1D
Entries 82
Mean 0.002012
Std Dev 0.1834

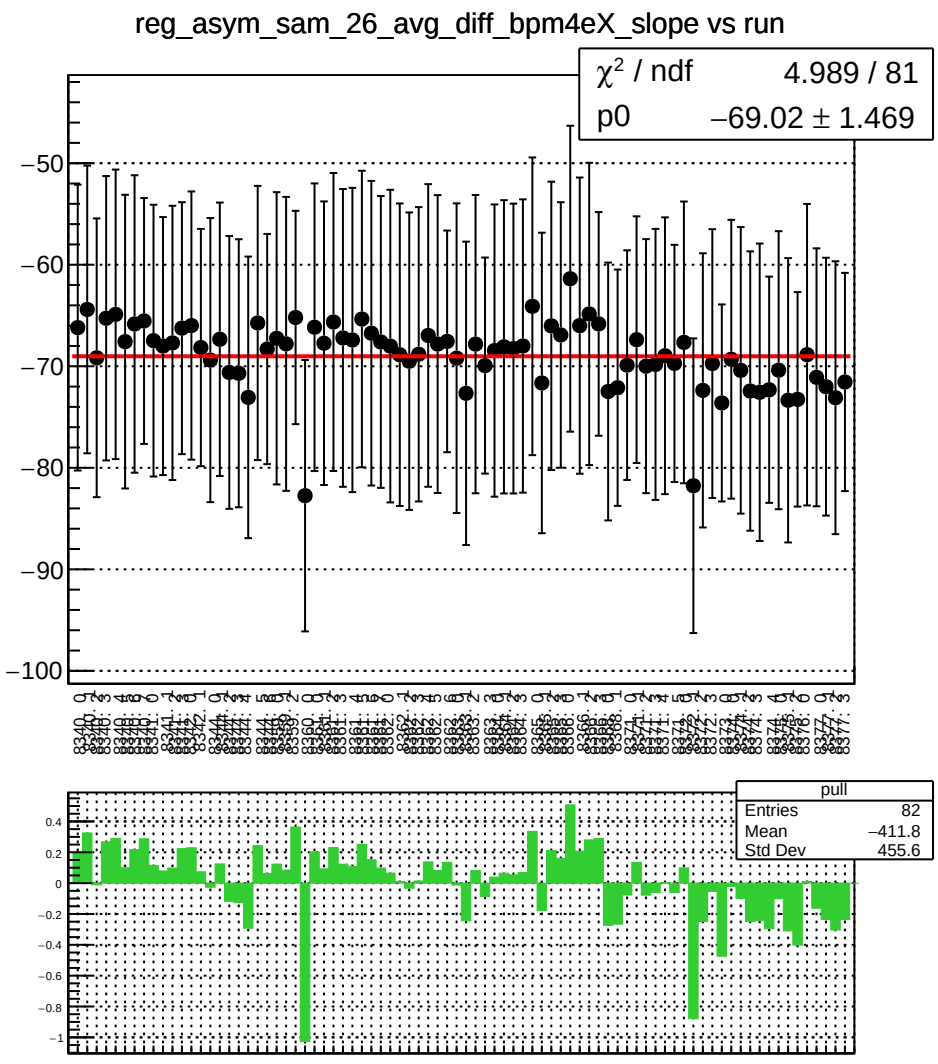

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.698 / 81
p0 20.96 ± 1.791
pull
Entries 82
Mean 1827
Std Dev 1778
pull1D
Entries 82
Mean −0.0005732
Std Dev 0.1814

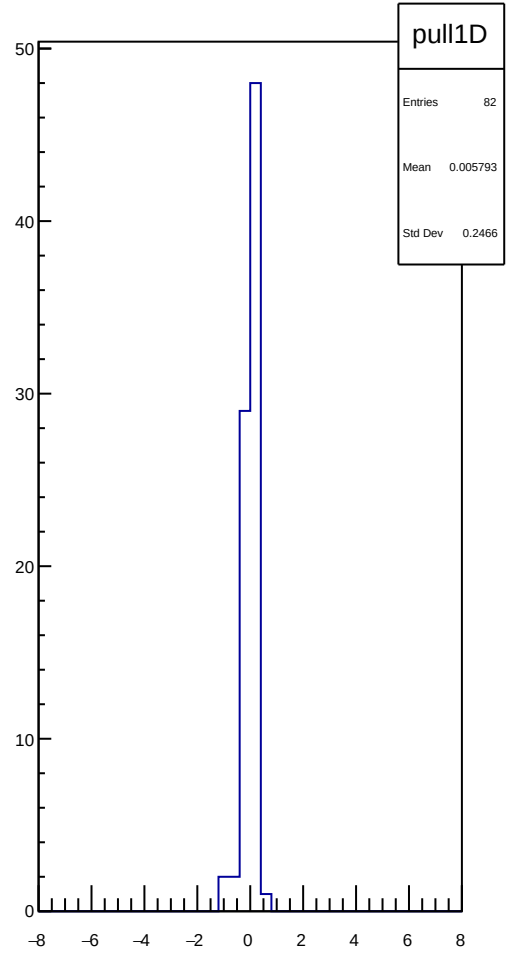

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.16 / 81
p0 0.381 ± 0.1073
pull
Entries 82
Mean 344.7
Std Dev 300
pull1D
Entries 82
Mean 0.005882
Std Dev 0.1962

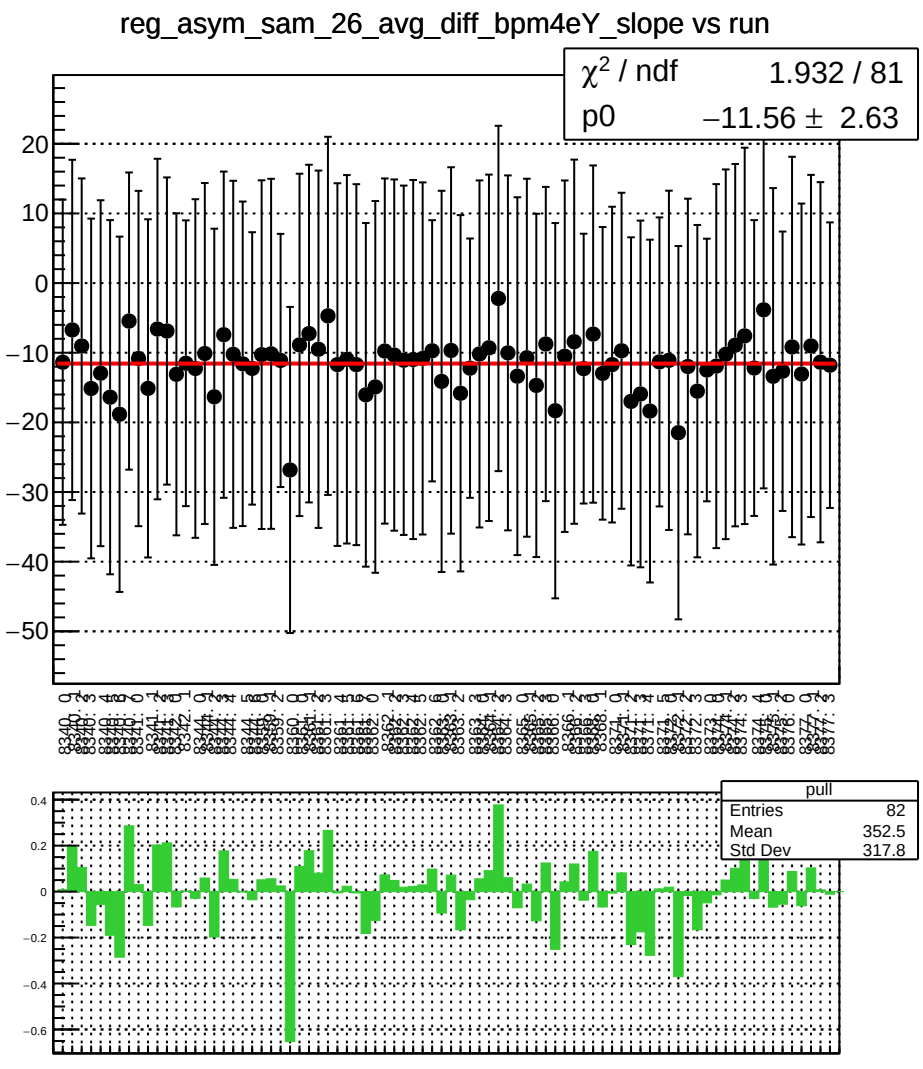

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 5.604 / 81
p0 2.064 ± 1.282
pull
Entries 82
Mean −235.1
Std Dev 280.9
pull1D
Entries 82
Mean −0.01265
Std Dev 0.2611

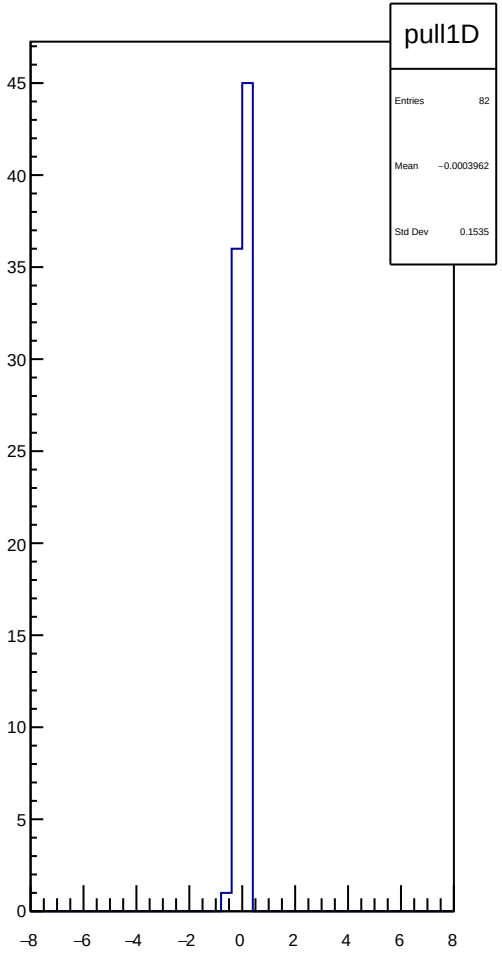

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.773 / 81
p0 −27.81 ± 2.547
pull
Entries 82
Mean 806.5
Std Dev 766.8

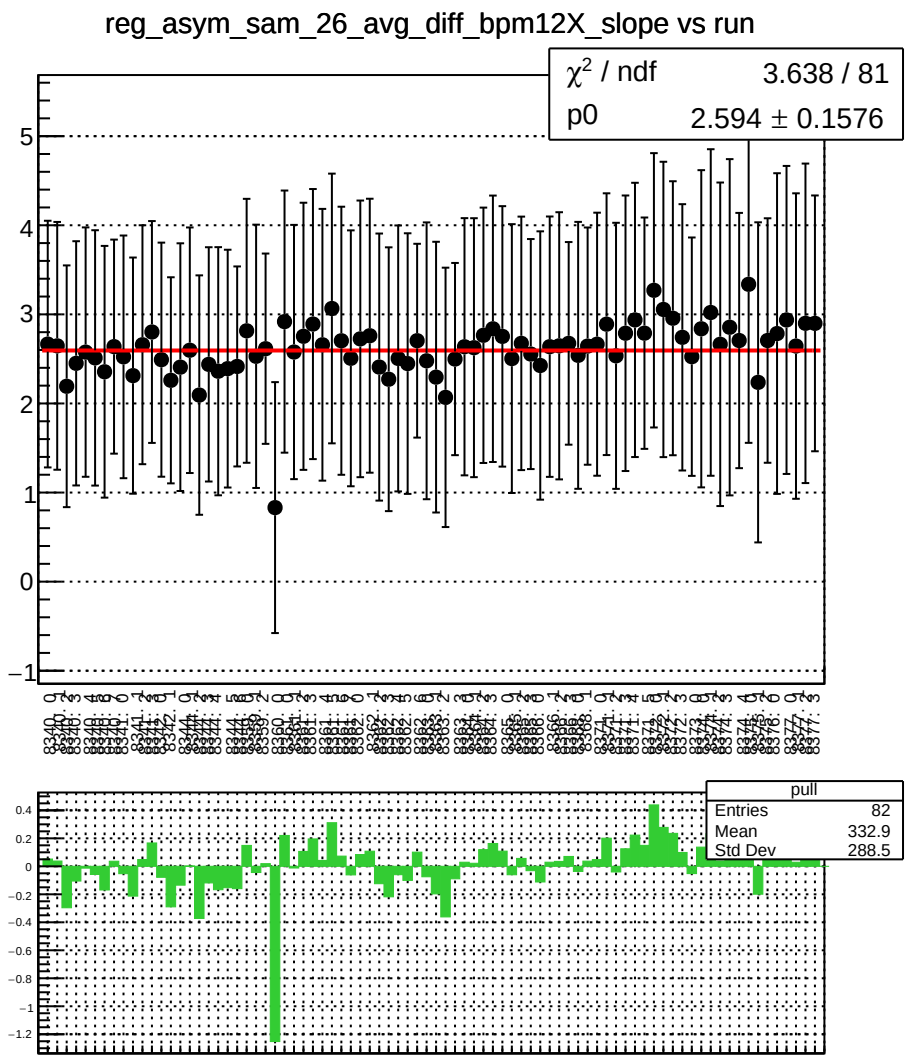

pull1D
Entries 82
Mean −0.0001975
Std Dev 0.1471

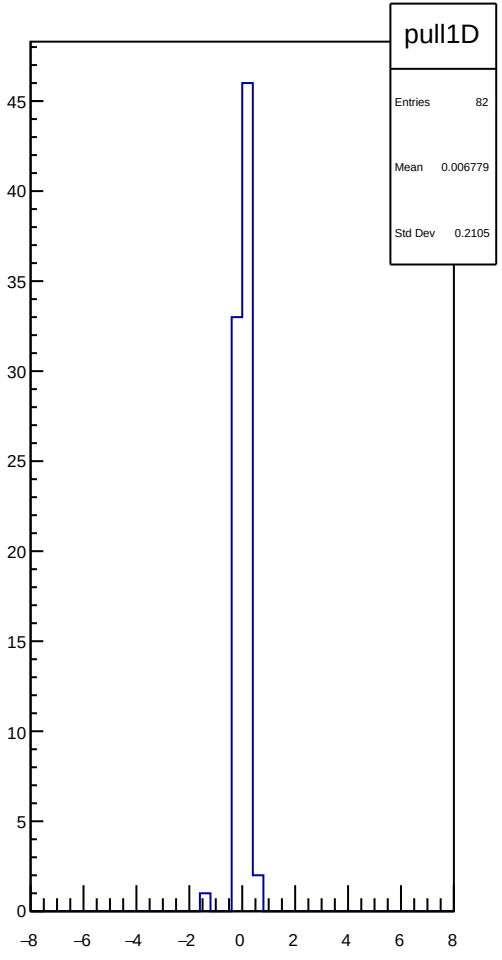

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.989 / 81
p0 −69.02 ± 1.469
pull
Entries 82
Mean −411.8
Std Dev 455.6

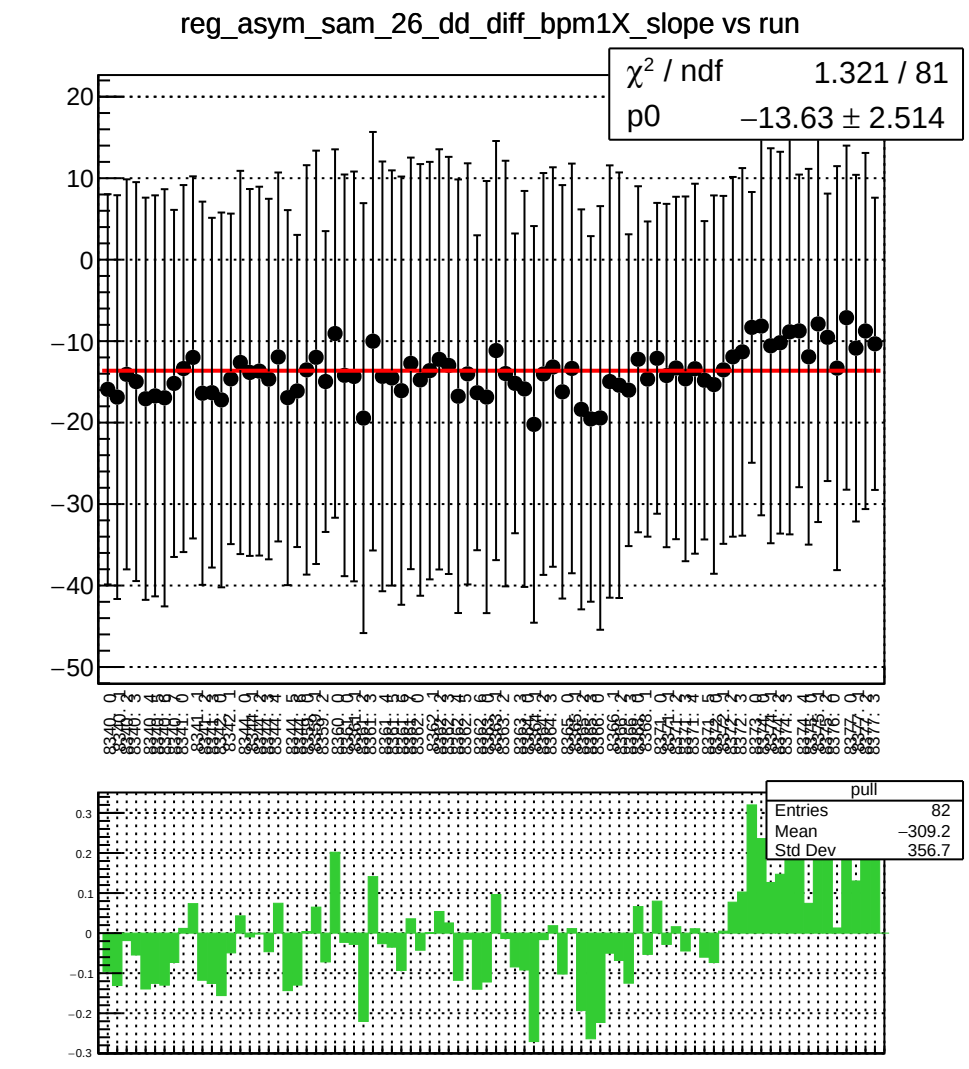

pull1D
Entries 82
Mean 0.005793
Std Dev 0.2466

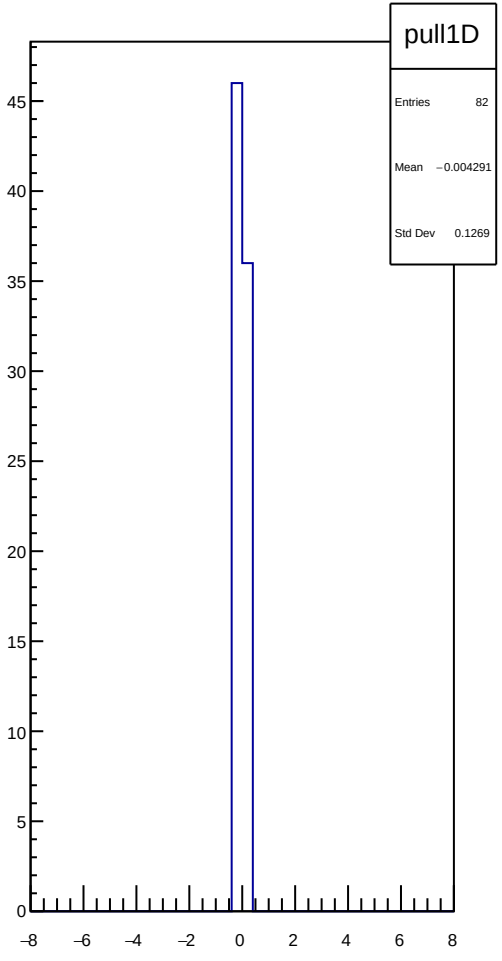

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.932 / 81
p0 −11.56 ± 2.63
pull
Entries 82
Mean 352.5
Std Dev 317.8

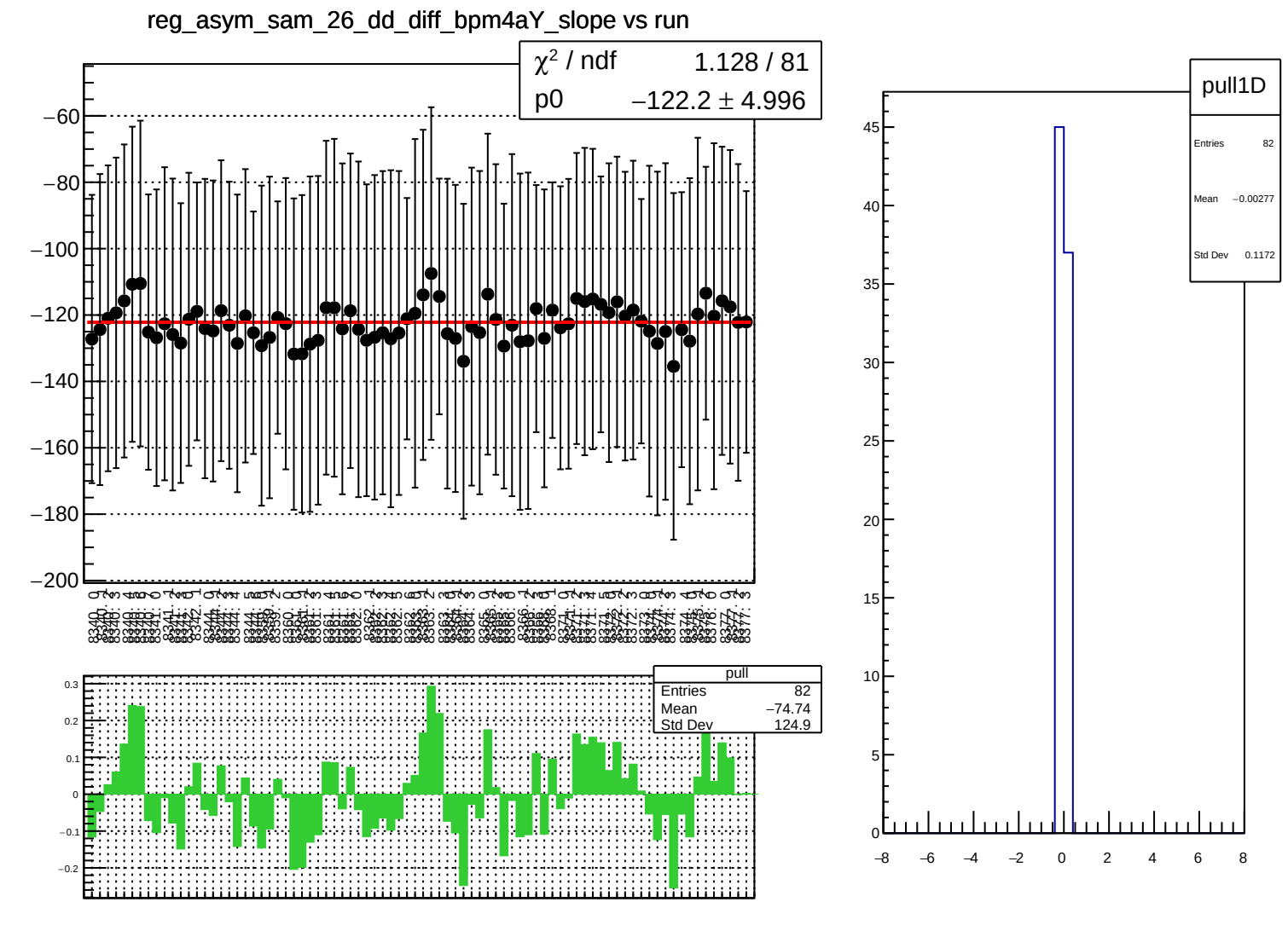

pull1D
Entries 82
Mean −0.0003962
Std Dev 0.1535

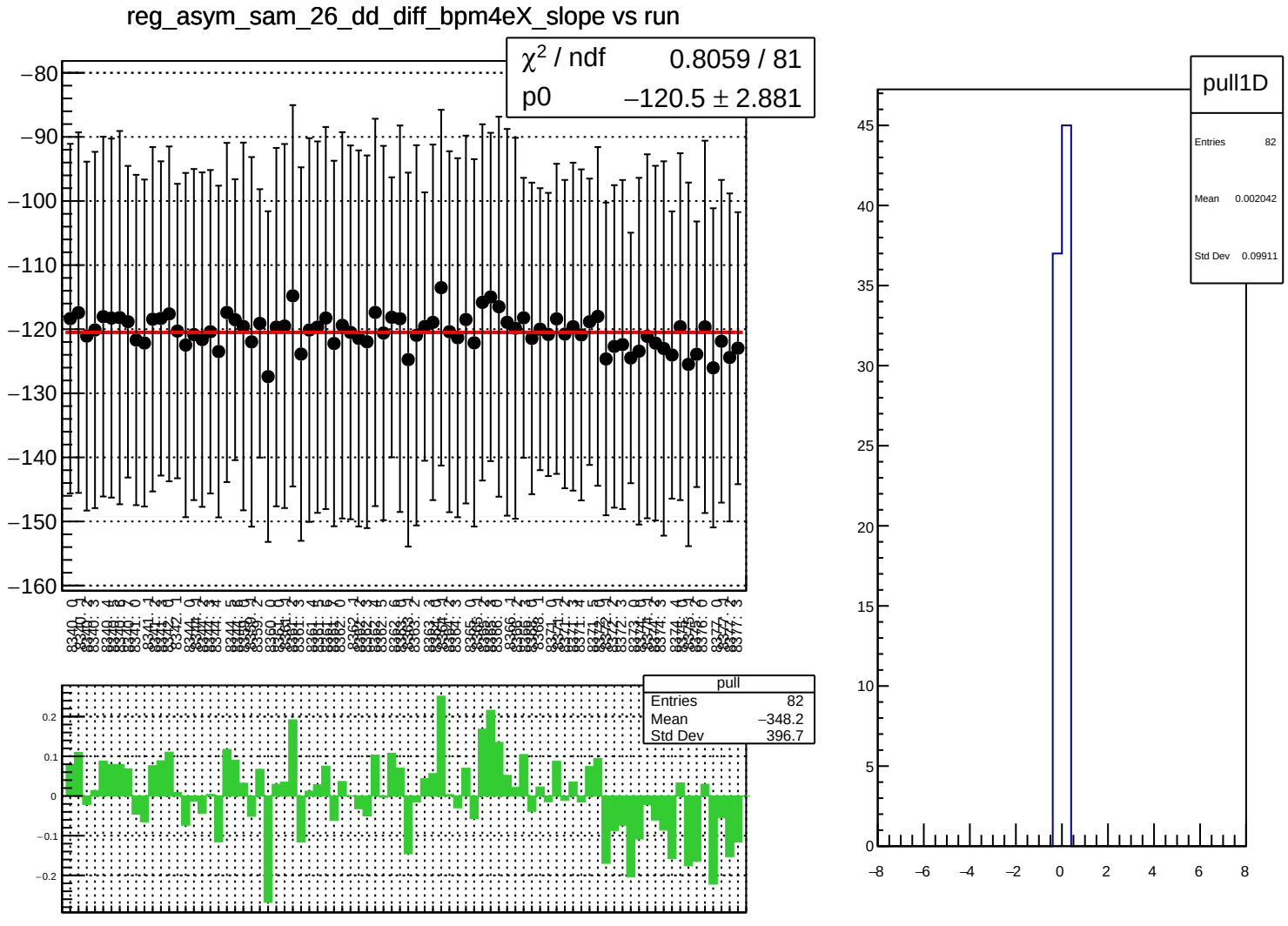

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 3.638 / 81
p0 2.594 ± 0.1576
pull
Entries 82
Mean 332.9
Std Dev 288.5

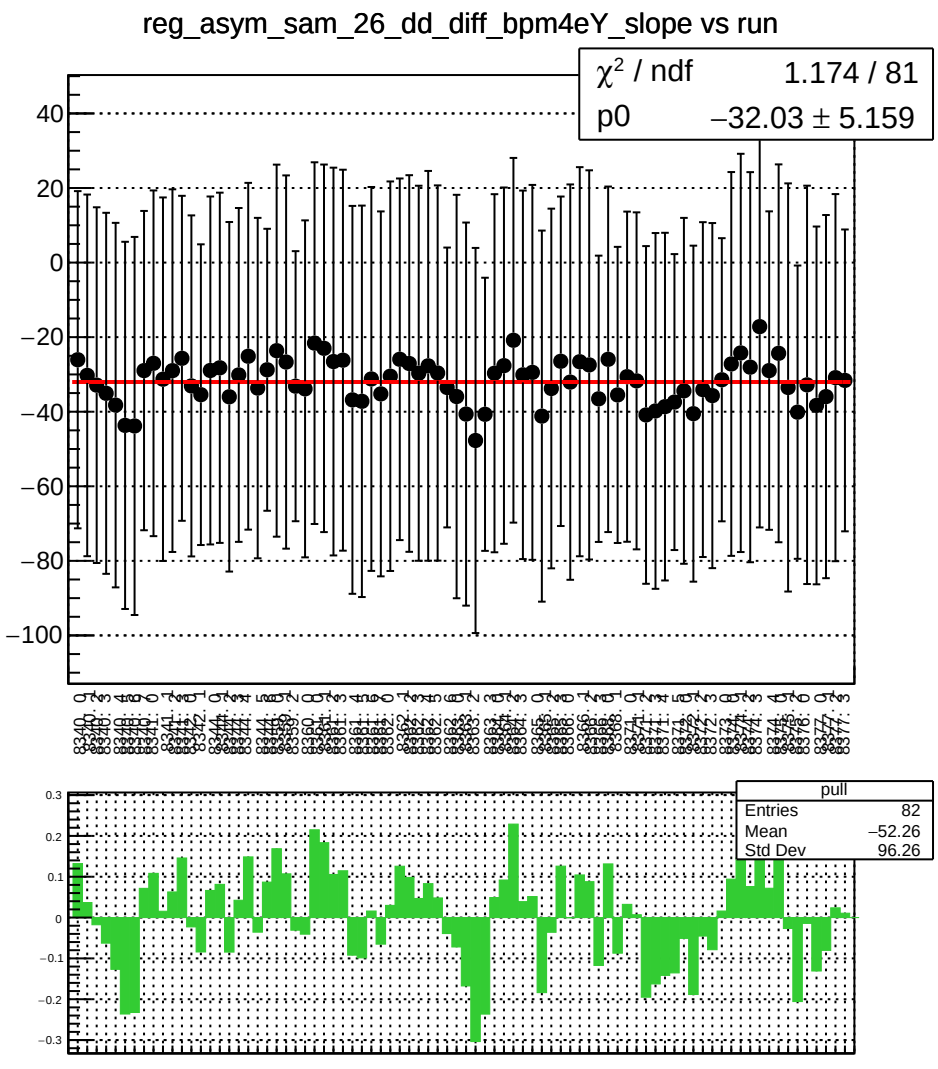

pull1D
Entries 82
Mean 0.006779
Std Dev 0.2105

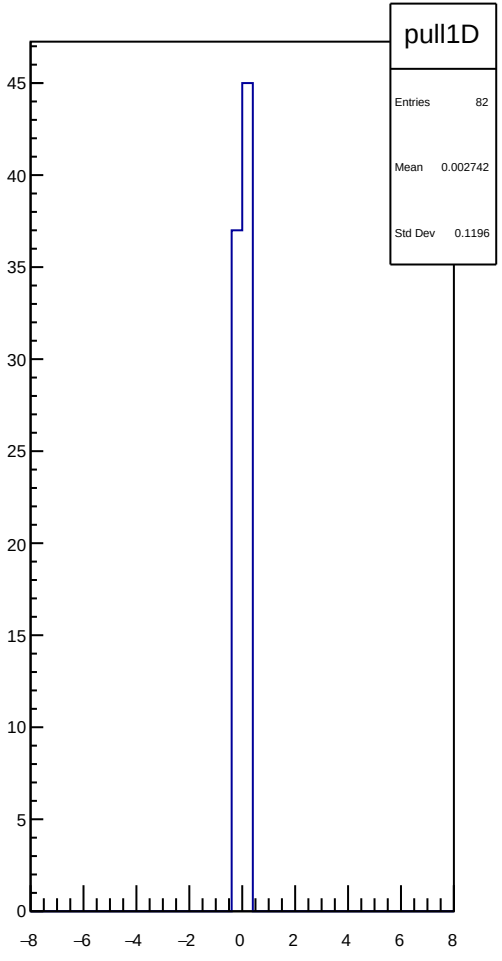

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.321 / 81
p0 −13.63 ± 2.514
pull
Entries 82
Mean −309.2
Std Dev 356.7

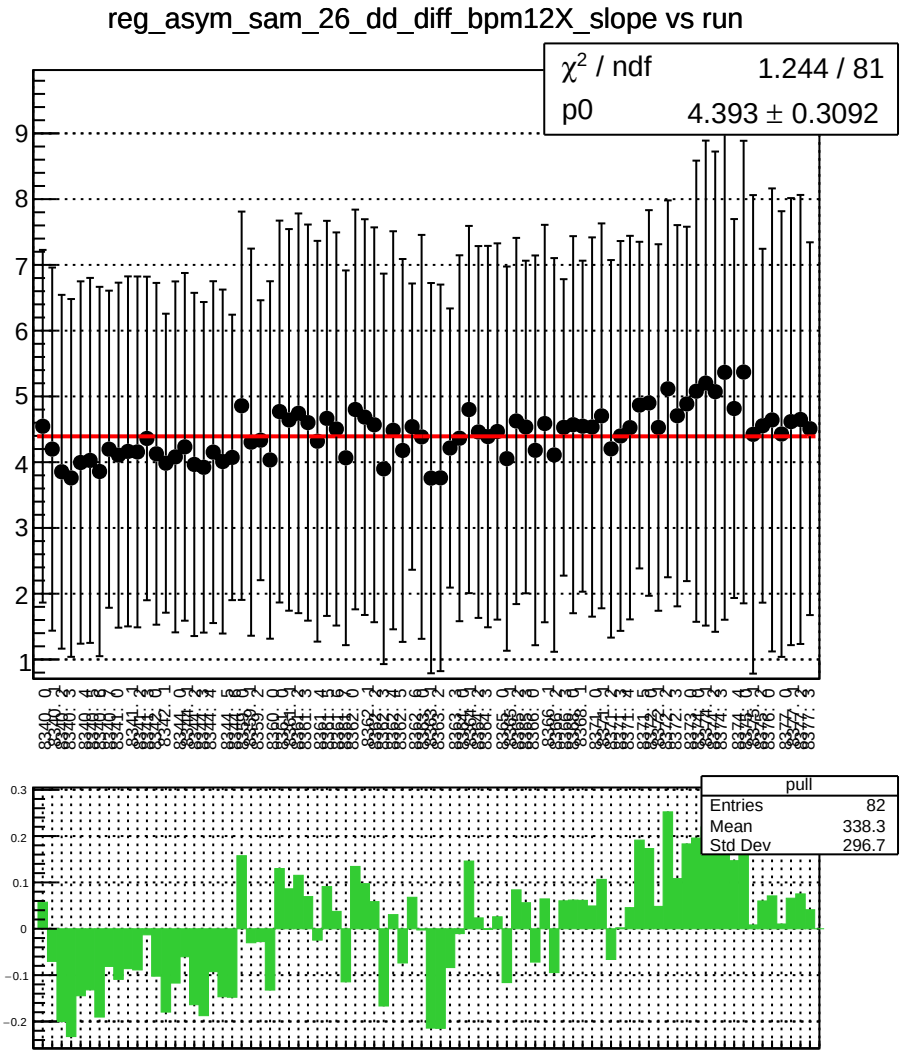

pull1D
Entries 82
Mean −0.004291
Std Dev 0.1269

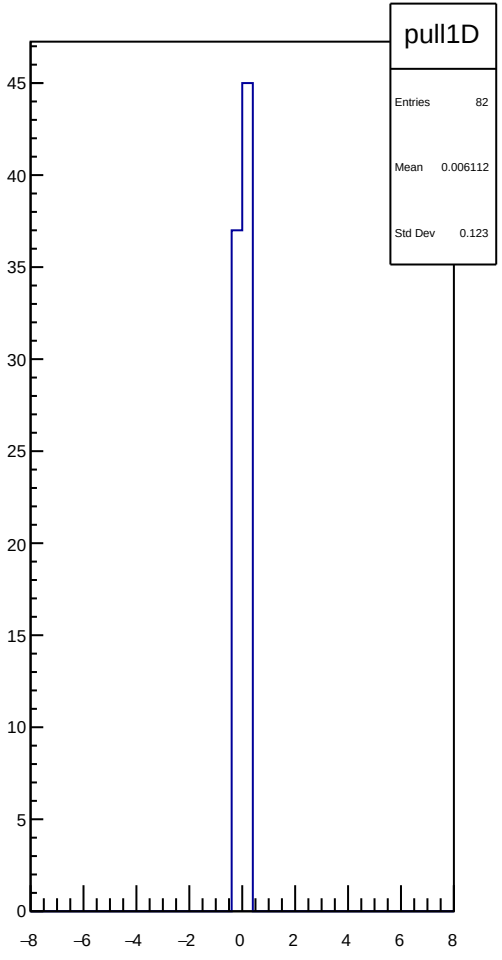

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.128 / 81
p0 −122.2 ± 4.996
pull
Entries 82
Mean −74.74
Std Dev 124.9
pull1D
Entries 82
Mean −0.00277
Std Dev 0.1172

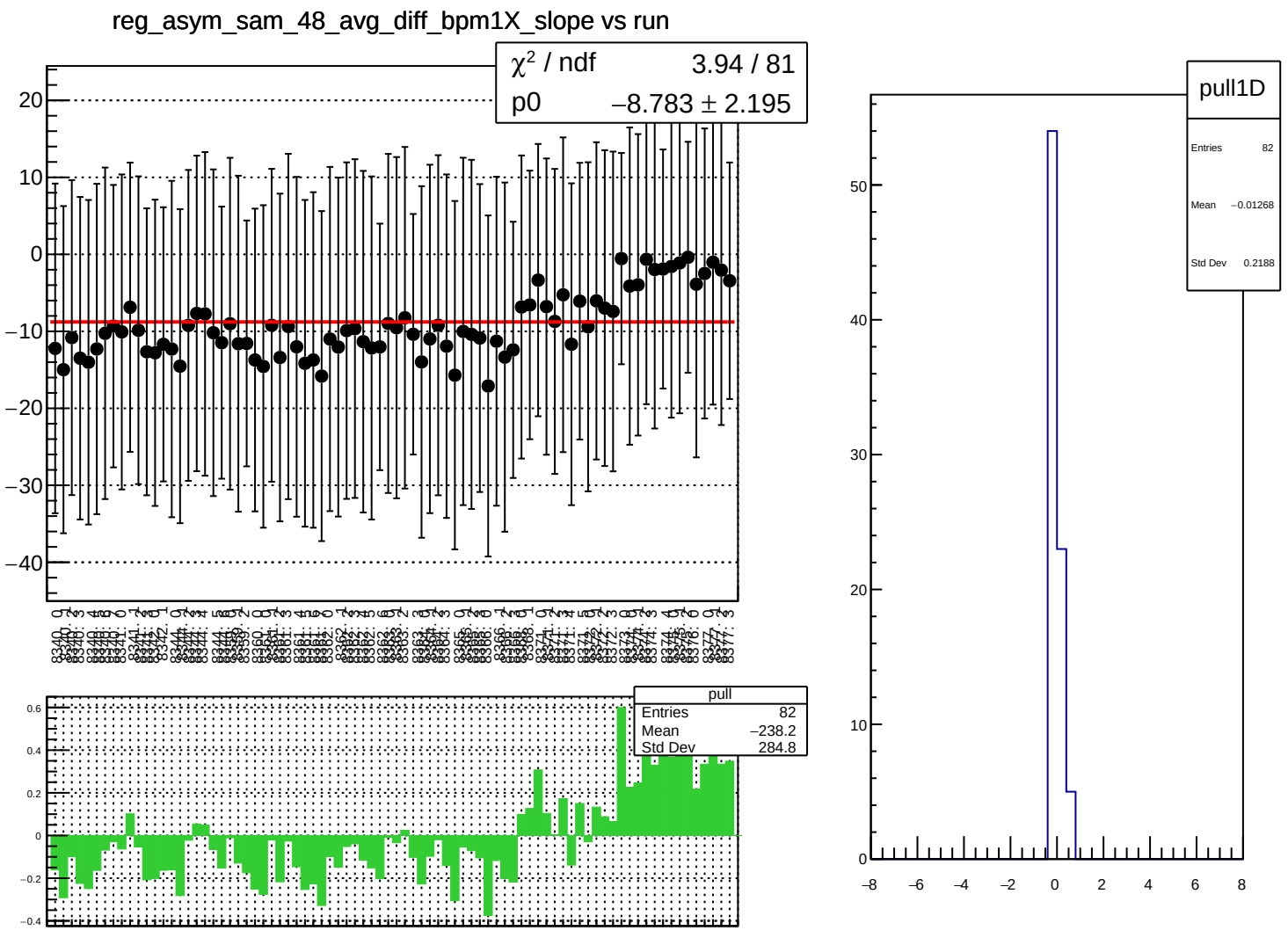

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.8059 / 81
p0 −120.5 ± 2.881
pull
Entries 82
Mean −348.2
Std Dev 396.7
pull1D
Entries 82
Mean 0.002042
Std Dev 0.09911

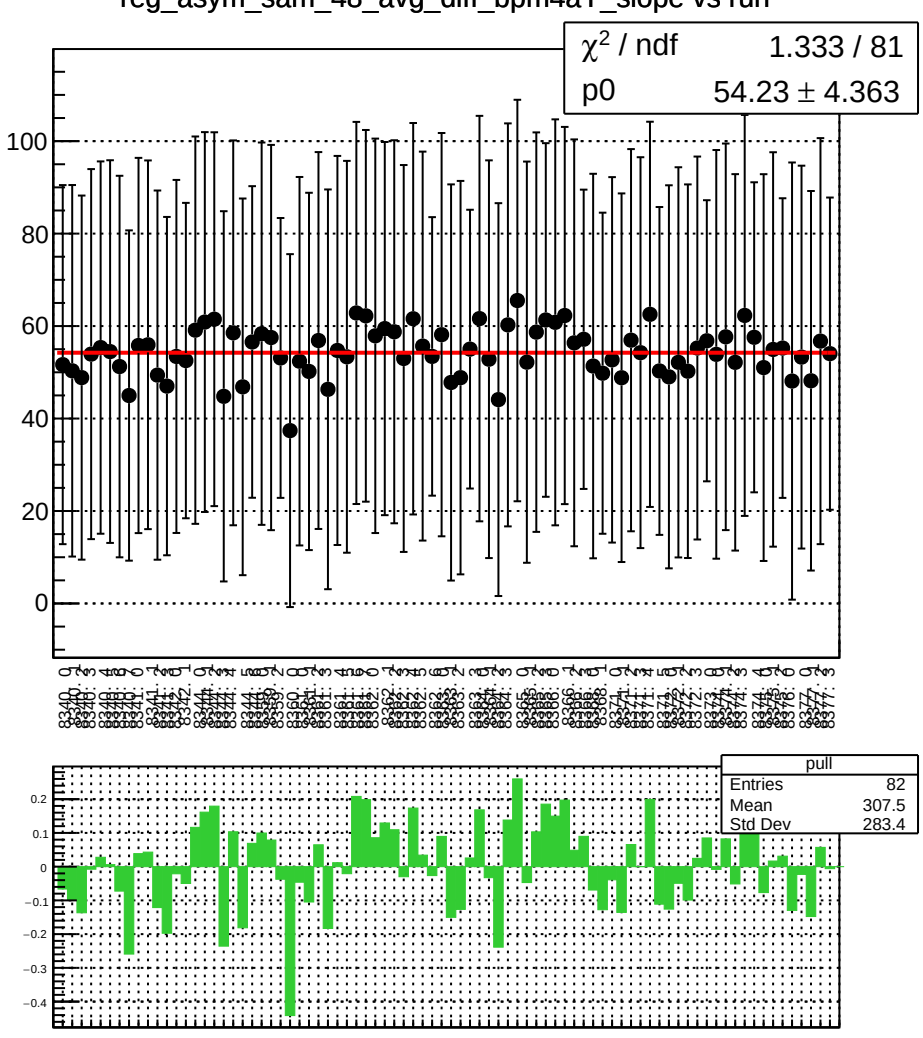

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.174 / 81
p0 −32.03 ± 5.159
pull
Entries 82
Mean −52.26
Std Dev 96.26

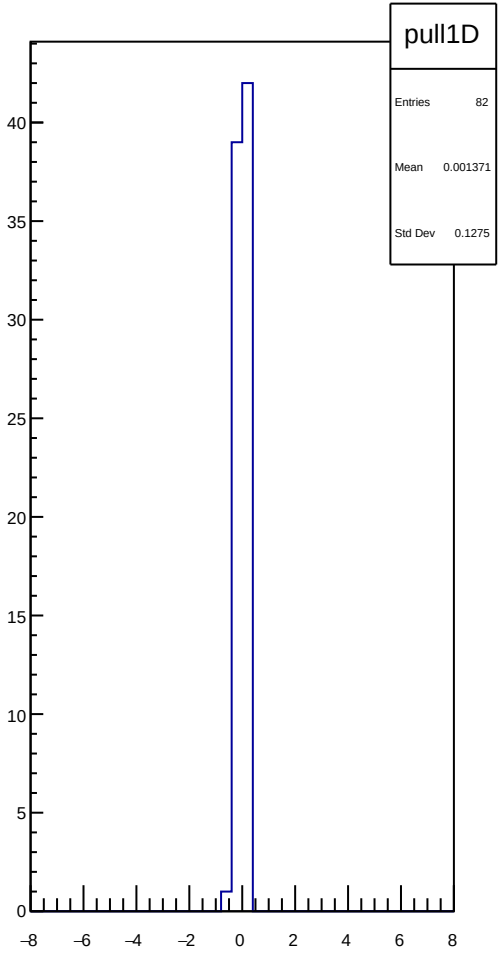

pull1D
Entries 82
Mean 0.002742
Std Dev 0.1196

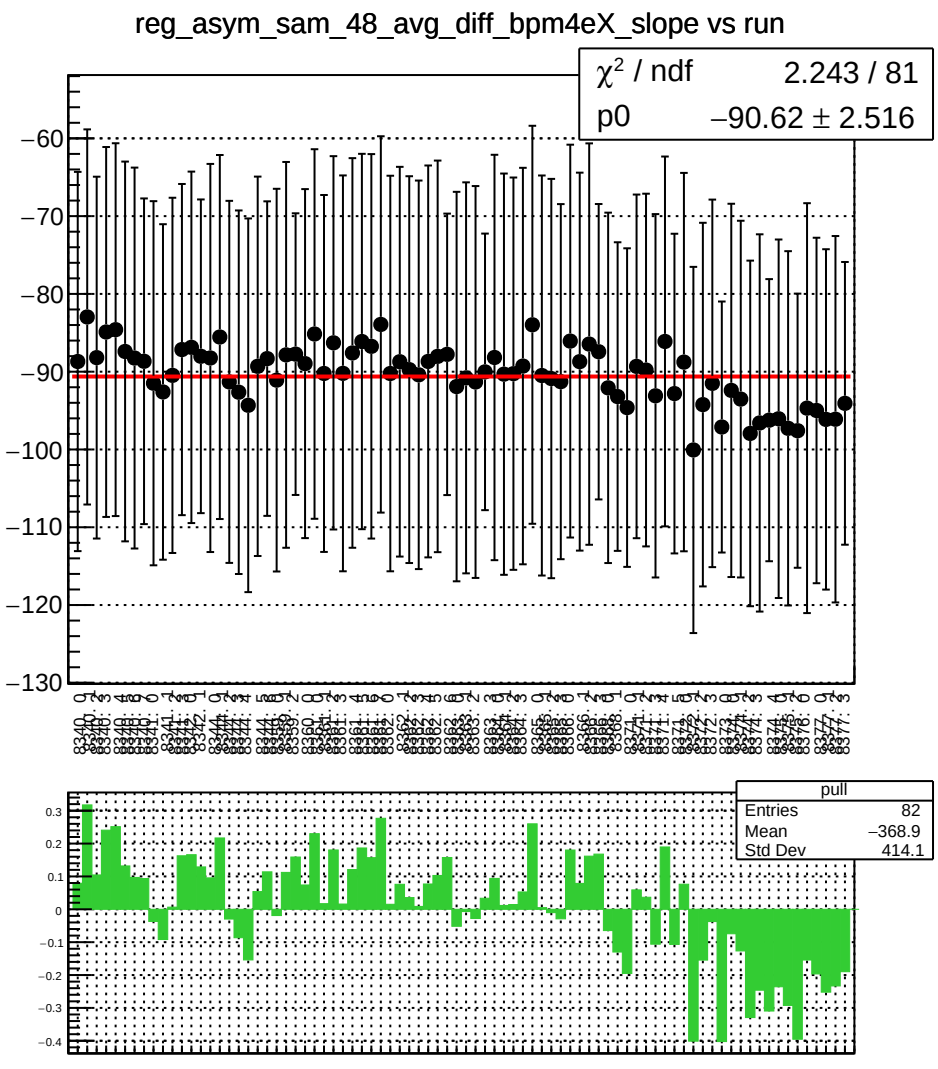

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.244 / 81
p0 4.393 ± 0.3092
pull
Entries 82
Mean 338.3
Std Dev 296.7

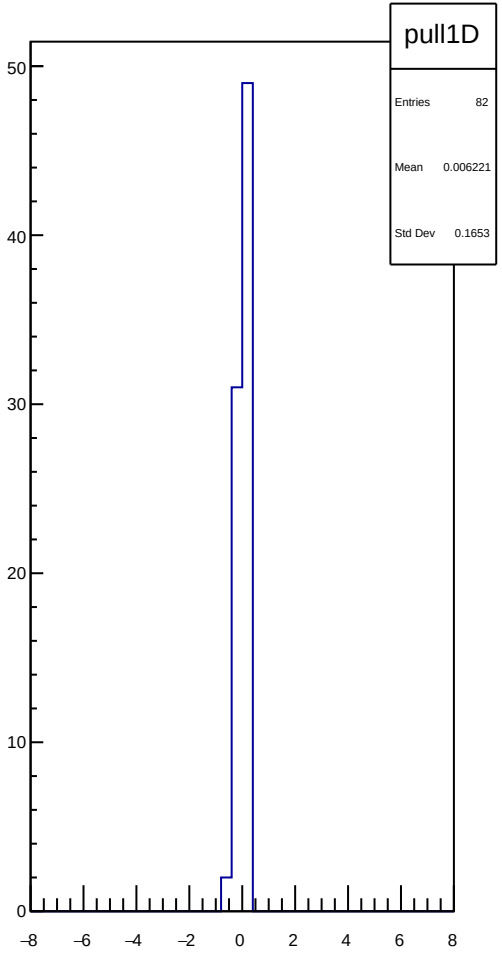

pull1D
Entries 82
Mean 0.006112
Std Dev 0.123

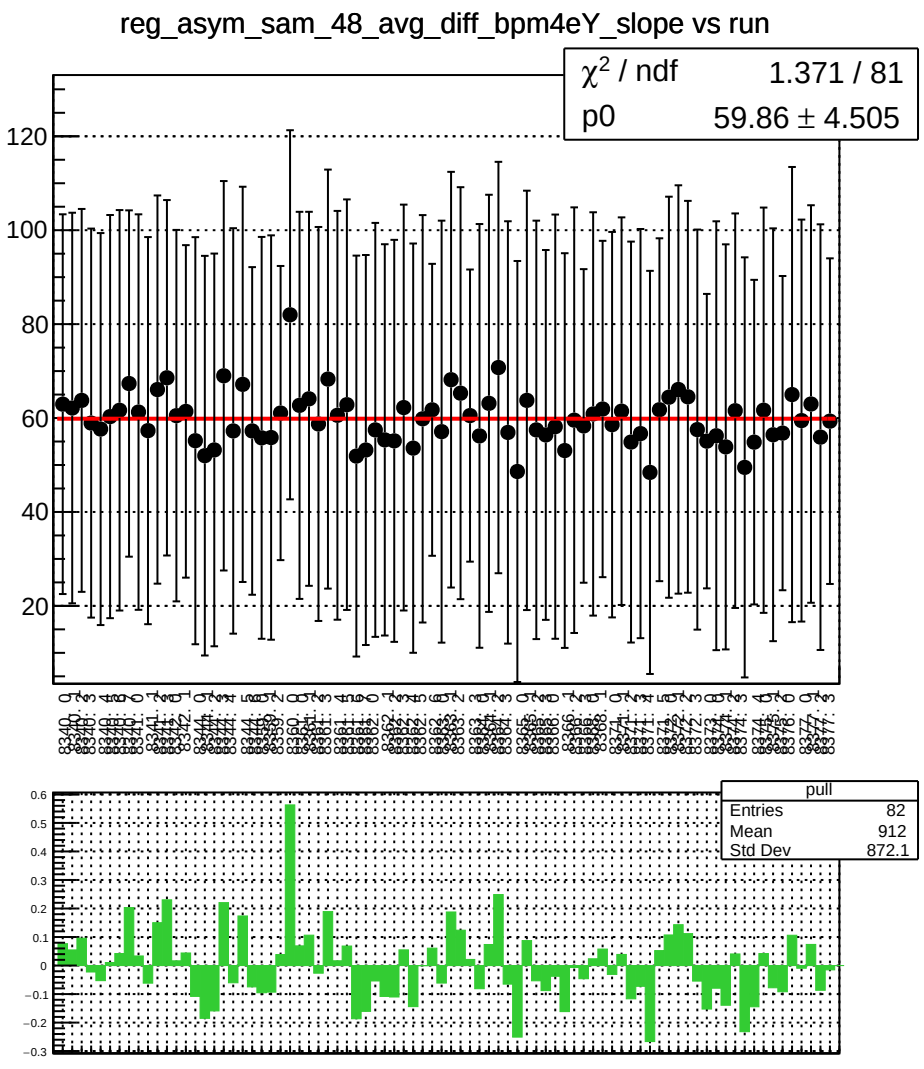

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 3.94 / 81
p0 −8.783 ± 2.195
pull
Entries 82
Mean −238.2
Std Dev 284.8
pull1D
Entries 82
Mean −0.01268
Std Dev 0.2188

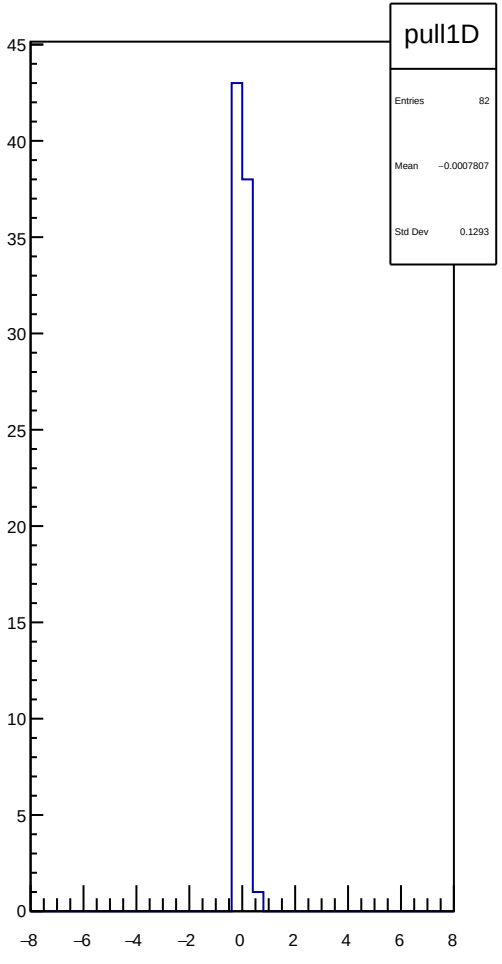

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 1.333 / 81
p0 54.23 ± 4.363
pull
Entries 82
Mean 307.5
Std Dev 283.4

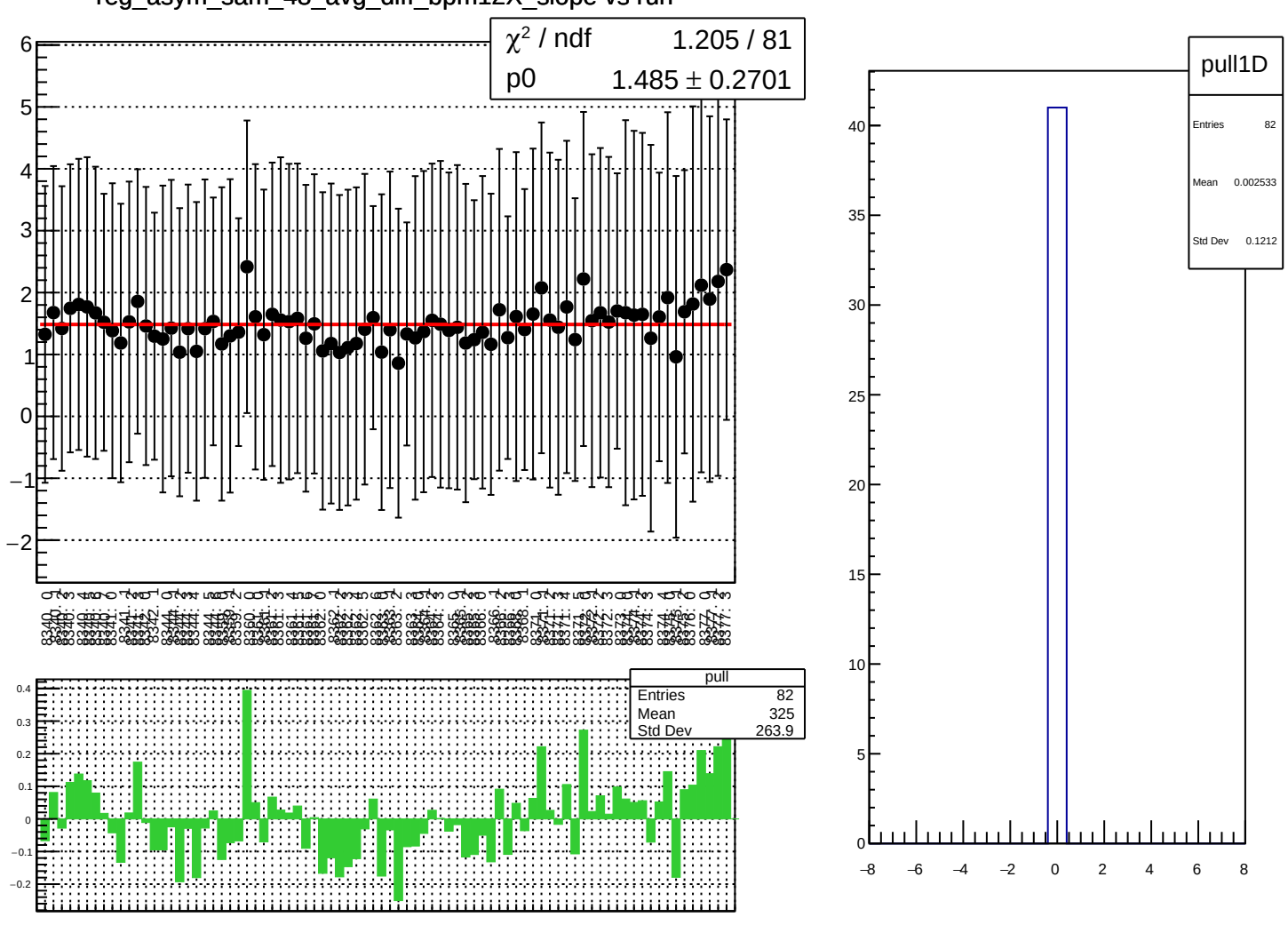

pull1D
Entries 82
Mean 0.001371
Std Dev 0.1275

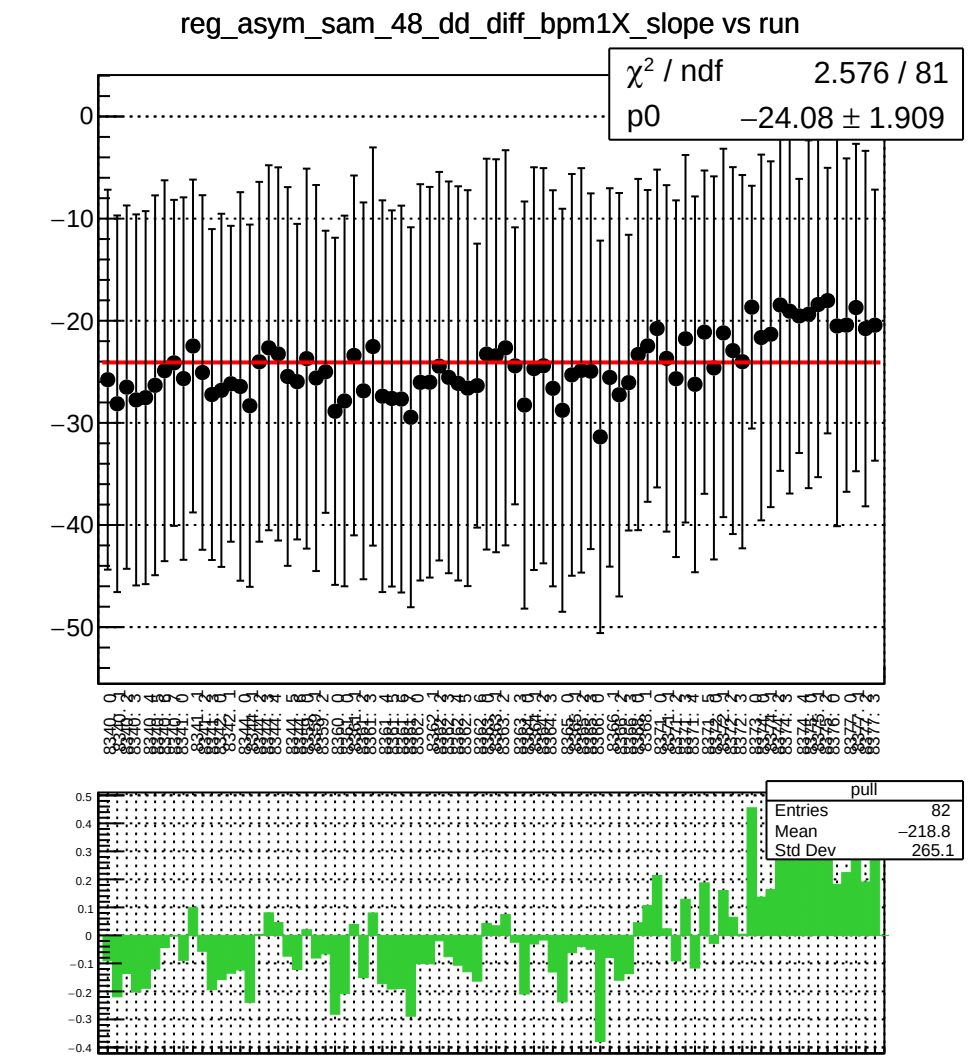

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.243 / 81
p0 −90.62 ± 2.516
pull
Entries 82
Mean −368.9
Std Dev 414.1

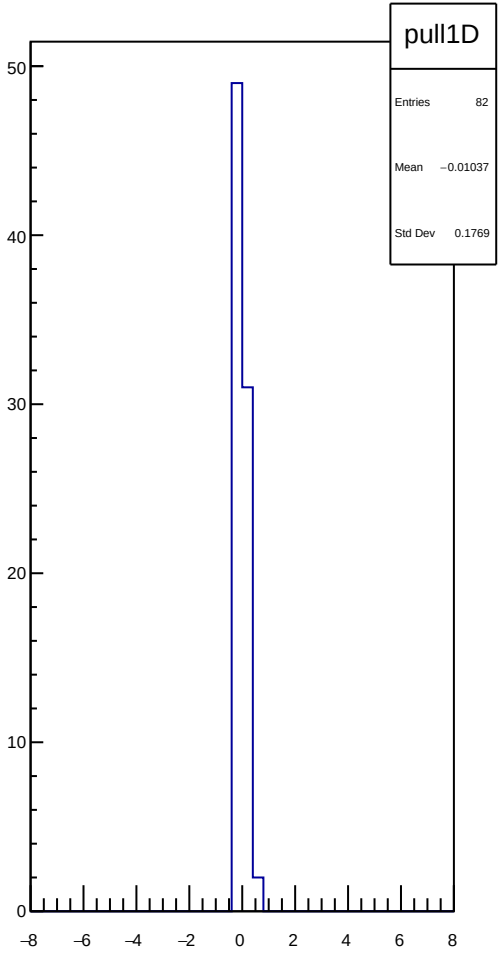

pull1D
Entries 82
Mean 0.006221
Std Dev 0.1653

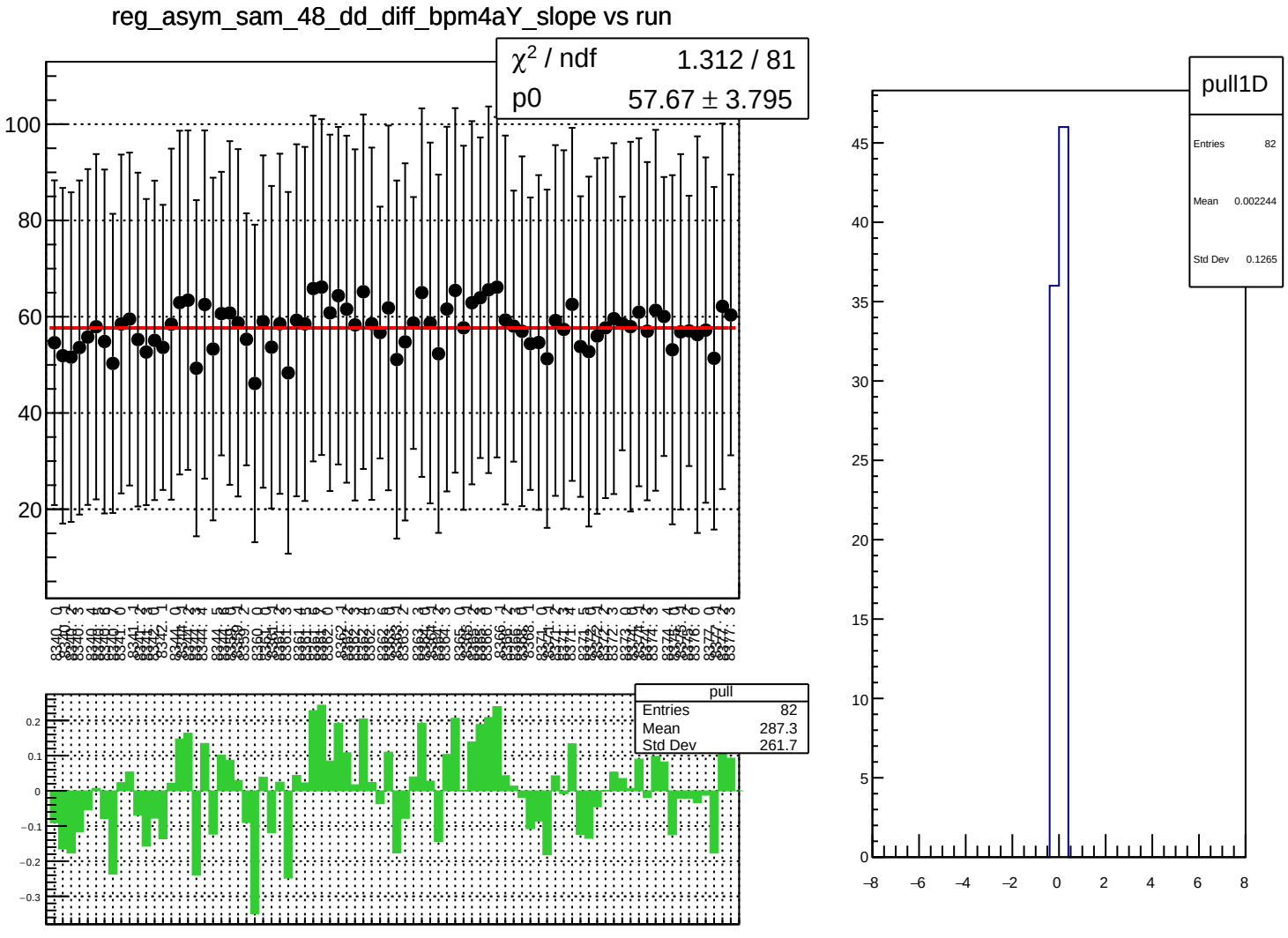

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.371 / 81
p0 59.86 ± 4.505
pull
Entries 82
Mean 912
Std Dev 872.1

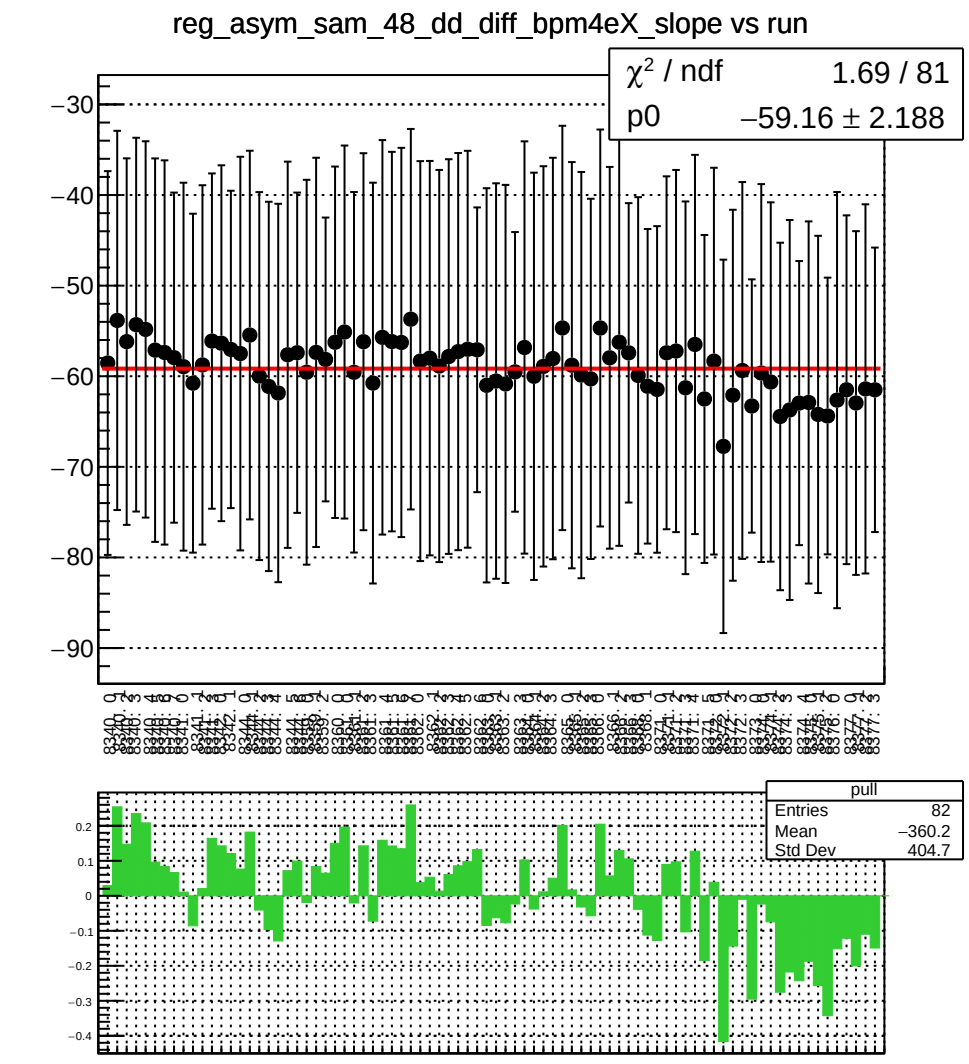

pull1D
Entries 82
Mean −0.0007807
Std Dev 0.1293

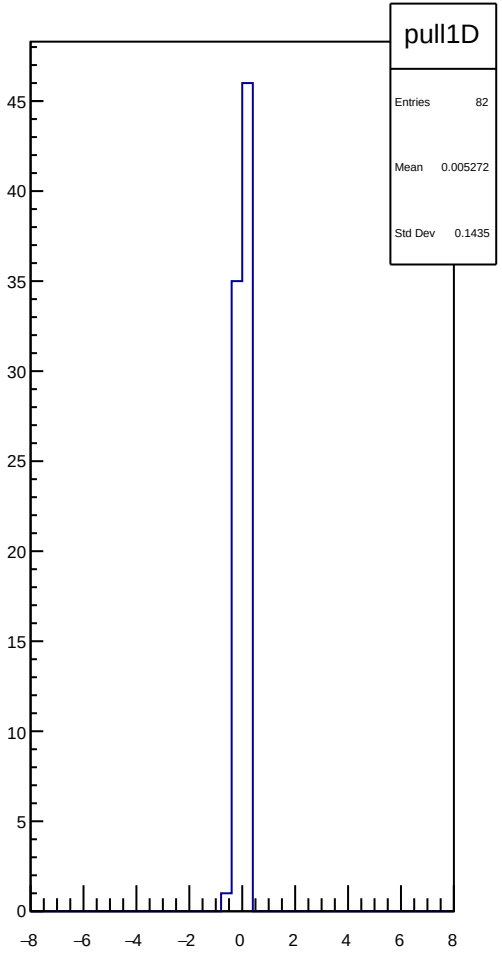

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 1.205 / 81
p0 1.485 ± 0.2701
pull
Entries 82
Mean 325
Std Dev 263.9
pull1D
Entries 82
Mean 0.002533
Std Dev 0.1212

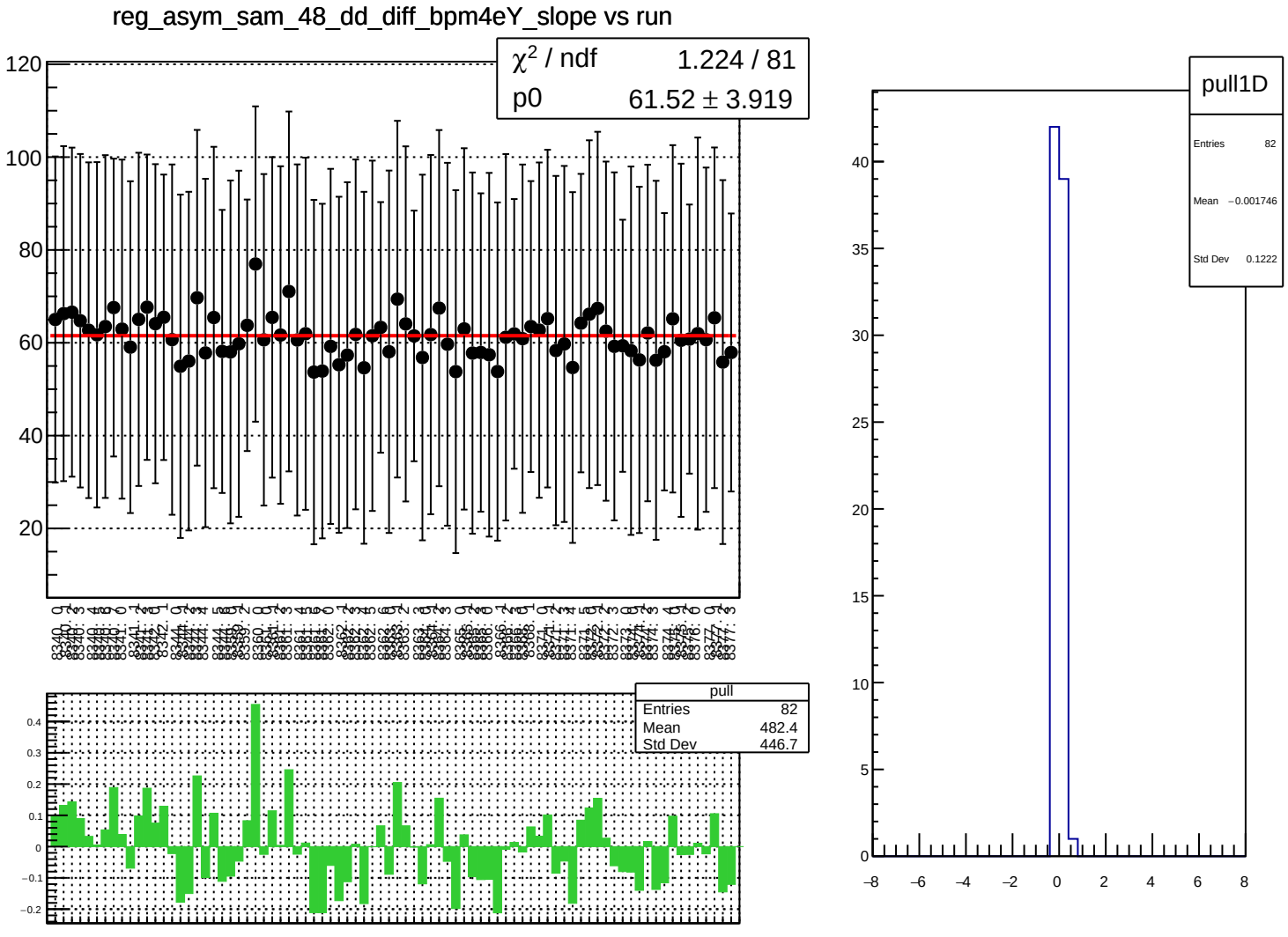

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.576 / 81
p0 −24.08 ± 1.909
pull
Entries 82
Mean −218.8
Std Dev 265.1

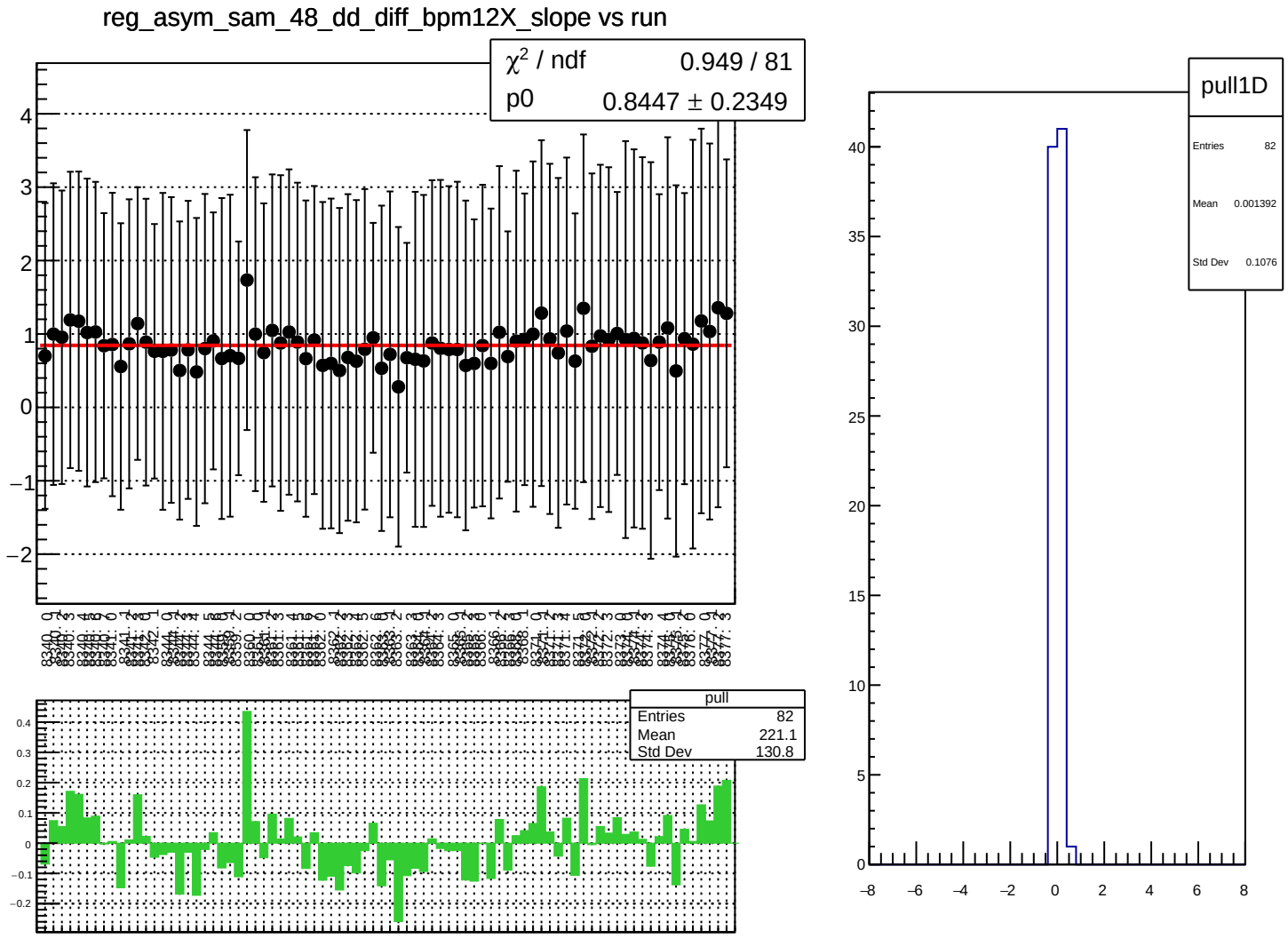

pull1D
Entries 82
Mean −0.01037
Std Dev 0.1769

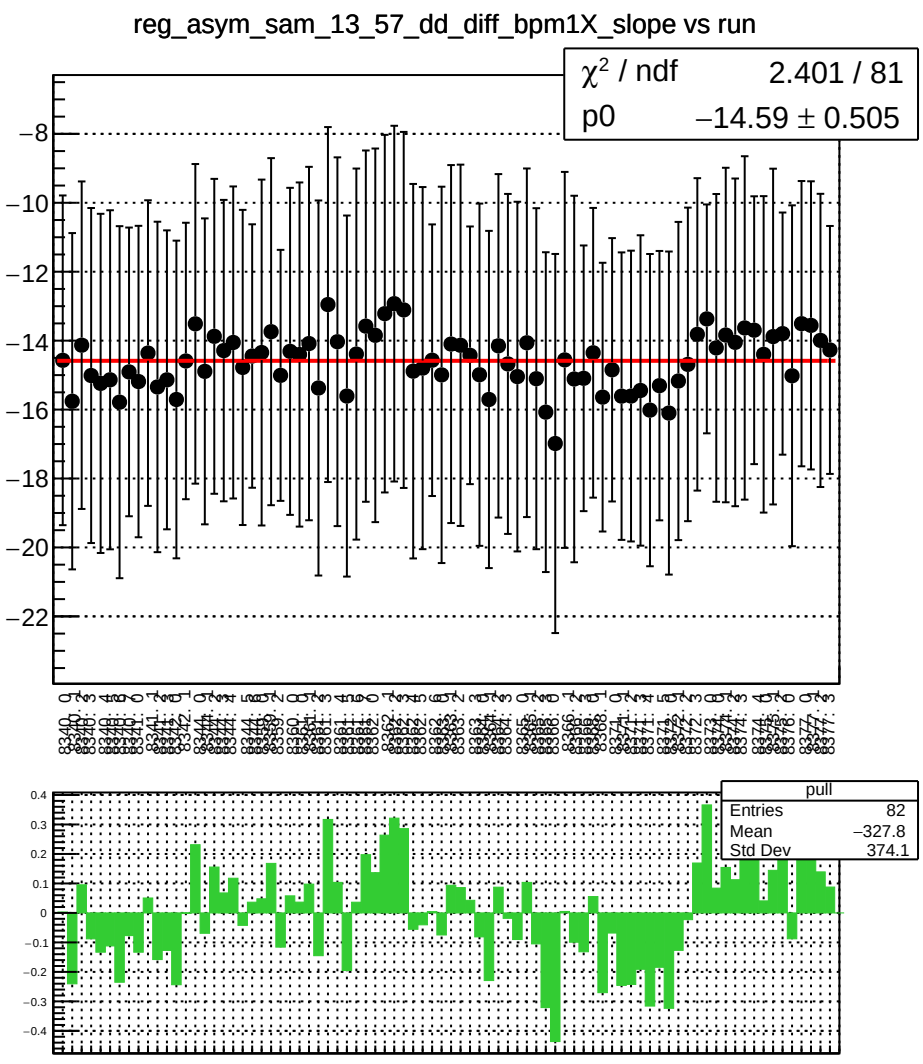

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.312 / 81
p0 57.67 ± 3.795
pull
Entries 82
Mean 287.3
Std Dev 261.7
pull1D
Entries 82
Mean 0.002244
Std Dev 0.1265

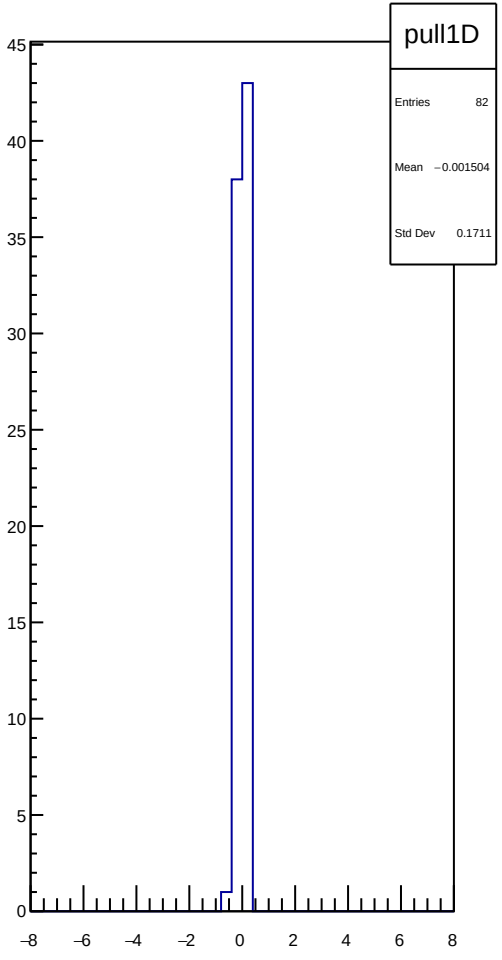

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.69 / 81
p0 −59.16 ± 2.188
pull
Entries 82
Mean −360.2
Std Dev 404.7

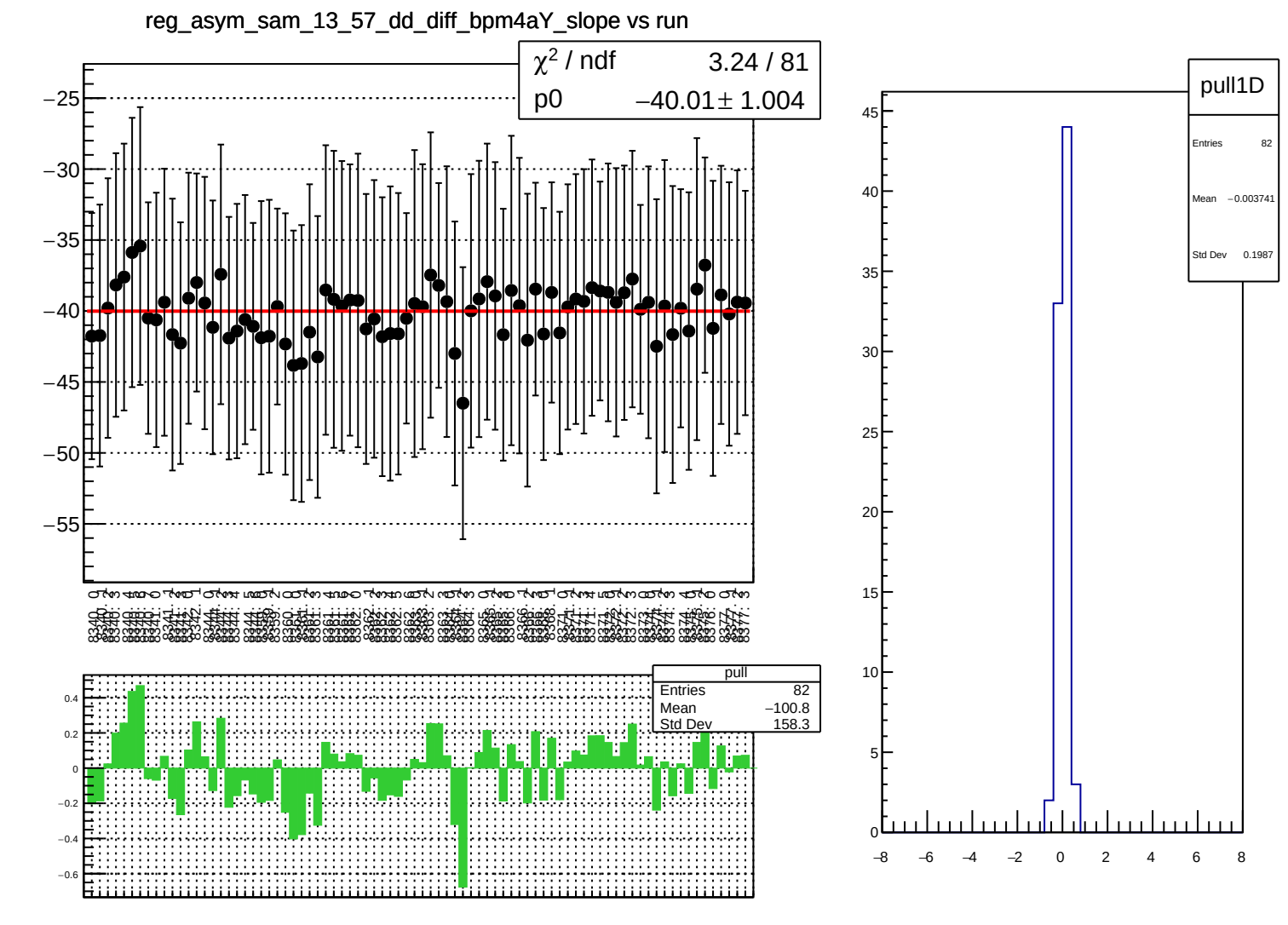

pull1D
Entries 82
Mean 0.005272
Std Dev 0.1435

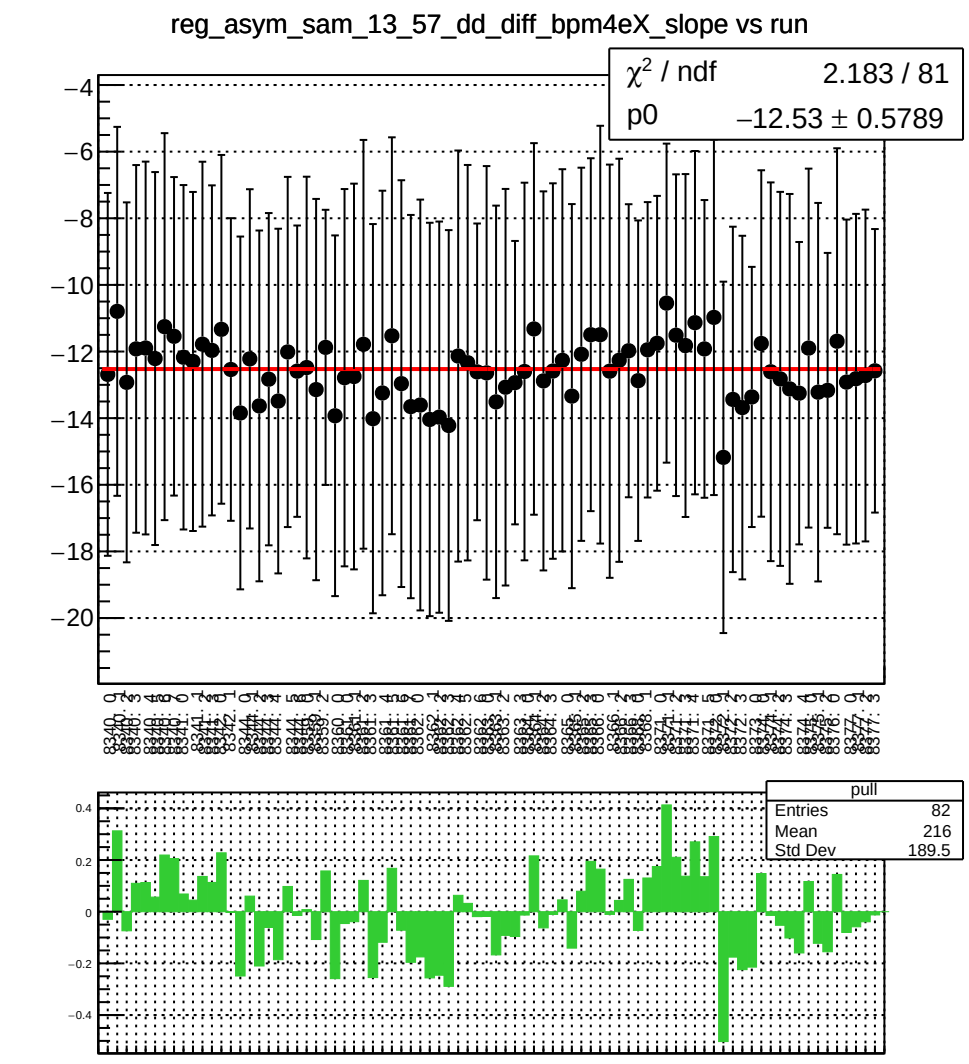

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.224 / 81
p0 61.52 ± 3.919
pull
Entries 82
Mean 482.4
Std Dev 446.7
pull1D
Entries 82
Mean −0.001746
Std Dev 0.1222

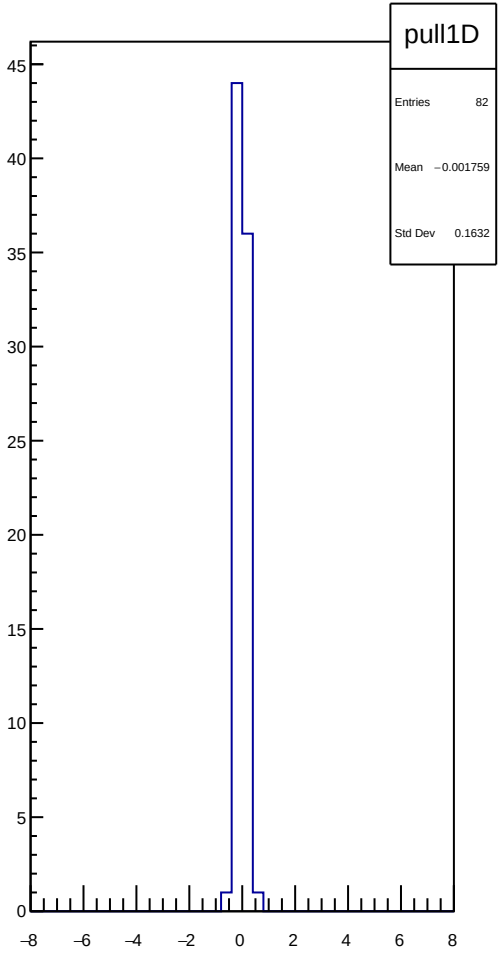

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.949 / 81
p0 0.8447 ± 0.2349
pull
Entries 82
Mean 221.1
Std Dev 130.8
pull1D
Entries 82
Mean 0.001392
Std Dev 0.1076

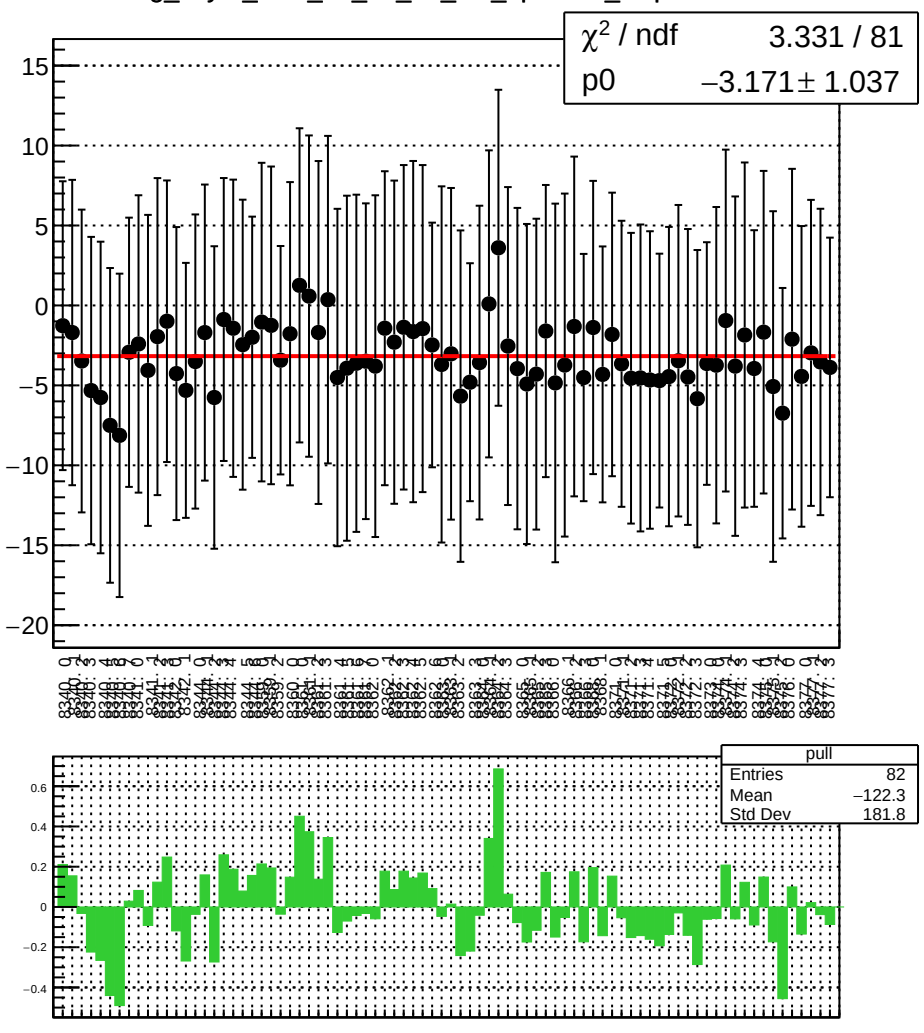

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 2.401 / 81
p0 −14.59 ± 0.505
pull
Entries 82
Mean −327.8
Std Dev 374.1

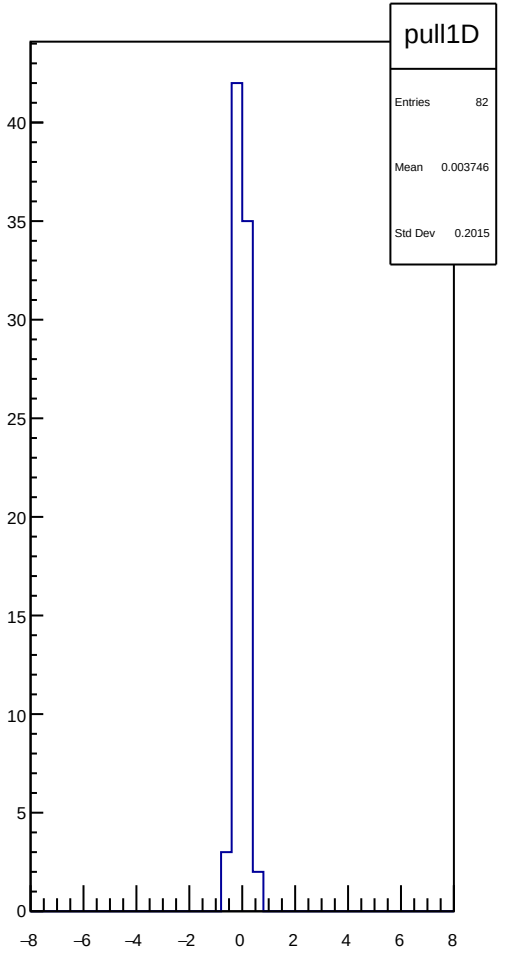

pull1D
Entries 82
Mean −0.001504
Std Dev 0.1711

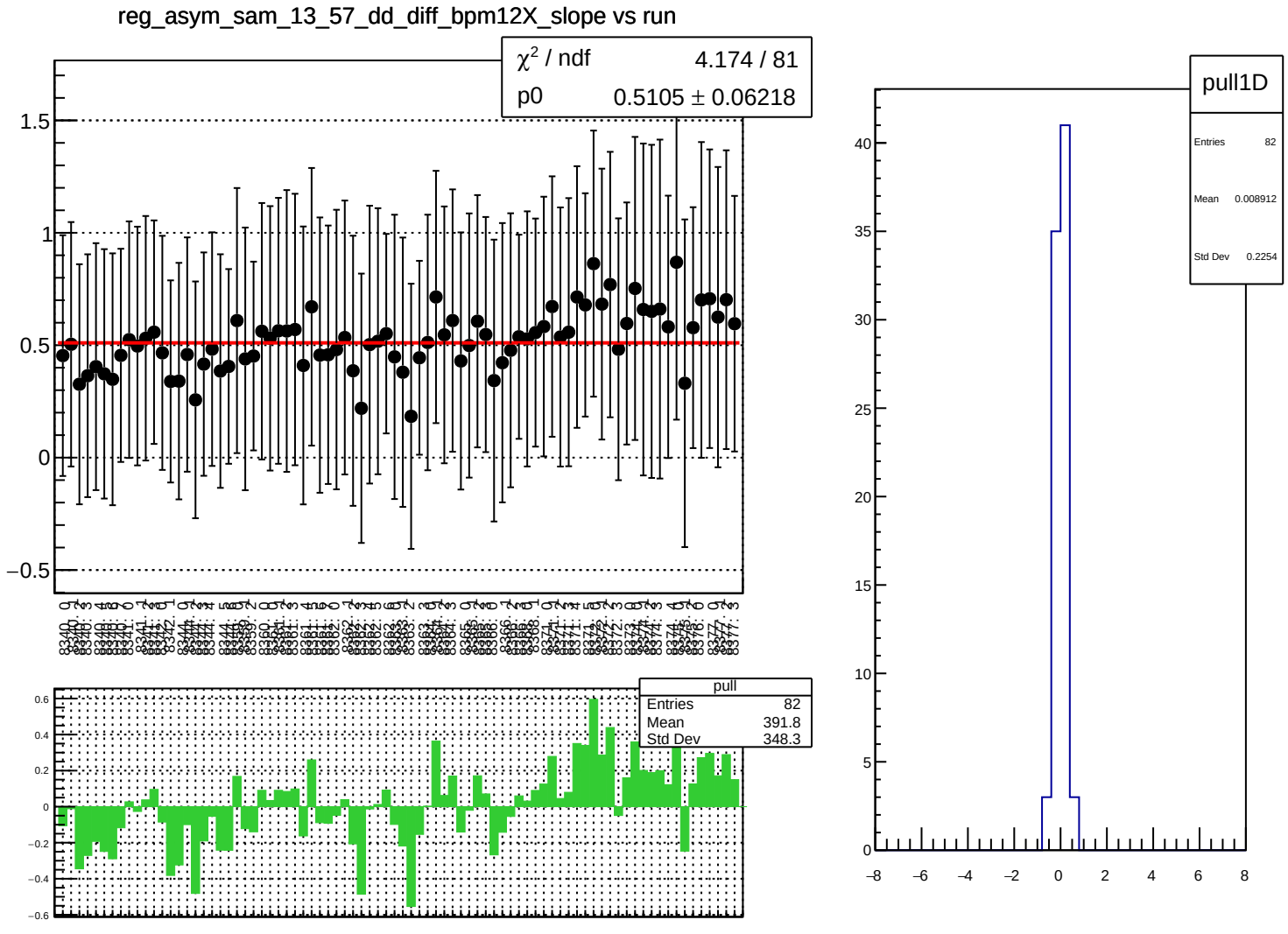

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.24 / 81
p0 −40.01 ± 1.004
pull
Entries 82
Mean −100.8
Std Dev 158.3
pull1D
Entries 82
Mean −0.003741
Std Dev 0.1987

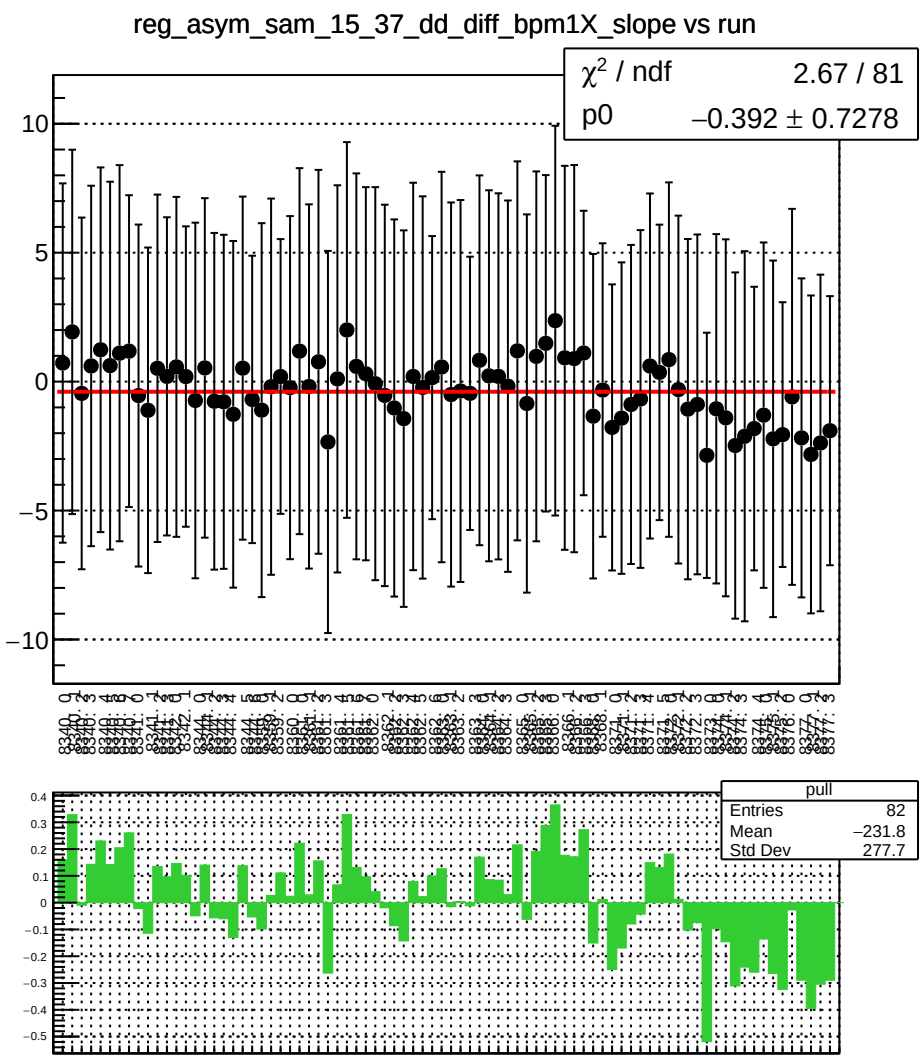

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.183 / 81
p0 −12.53 ± 0.5789
pull
Entries 82
Mean 216
Std Dev 189.5

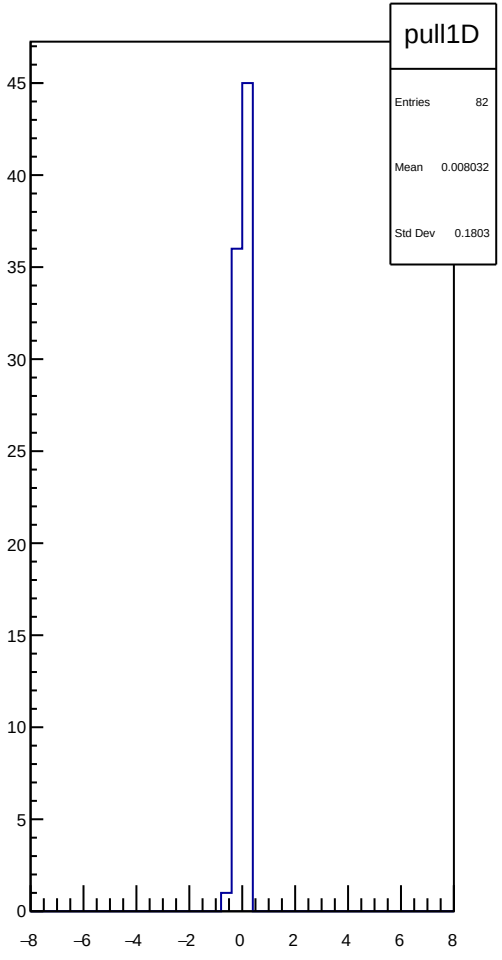

pull1D
Entries 82
Mean −0.001759
Std Dev 0.1632

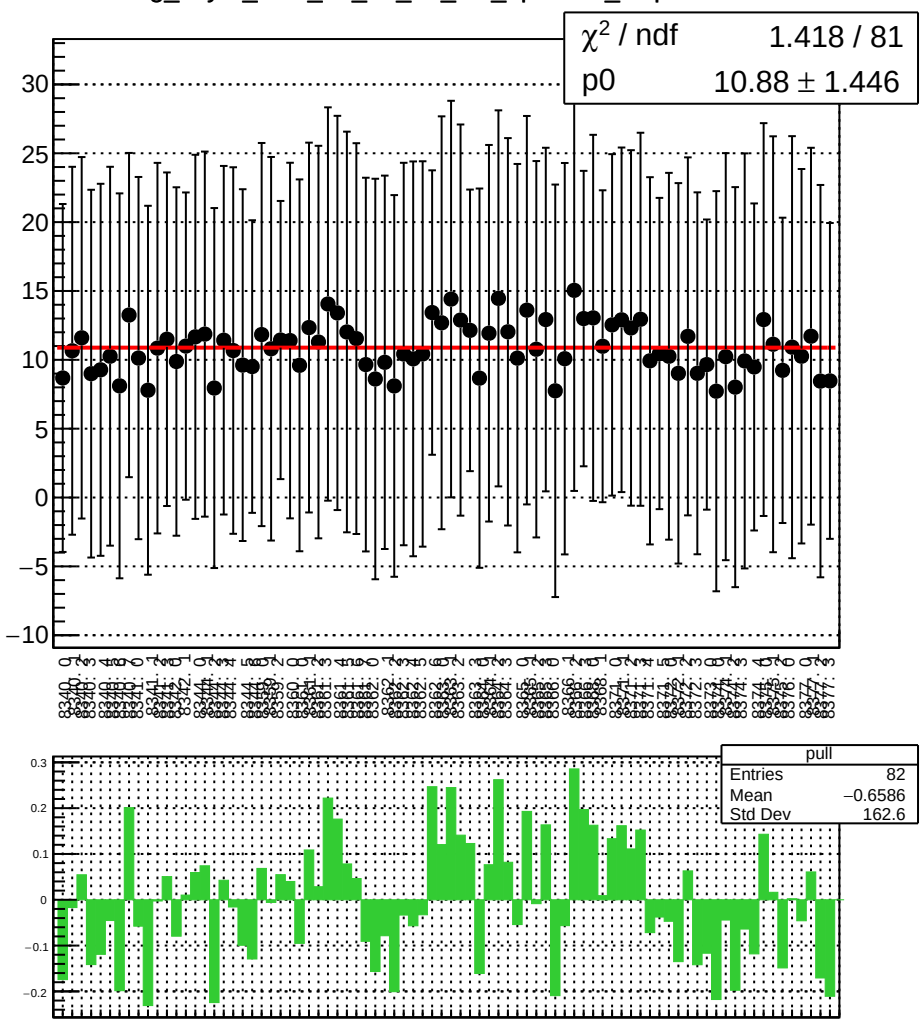

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.331 / 81
p0 −3.171 ± 1.037
pull
Entries 82
Mean −122.3
Std Dev 181.8

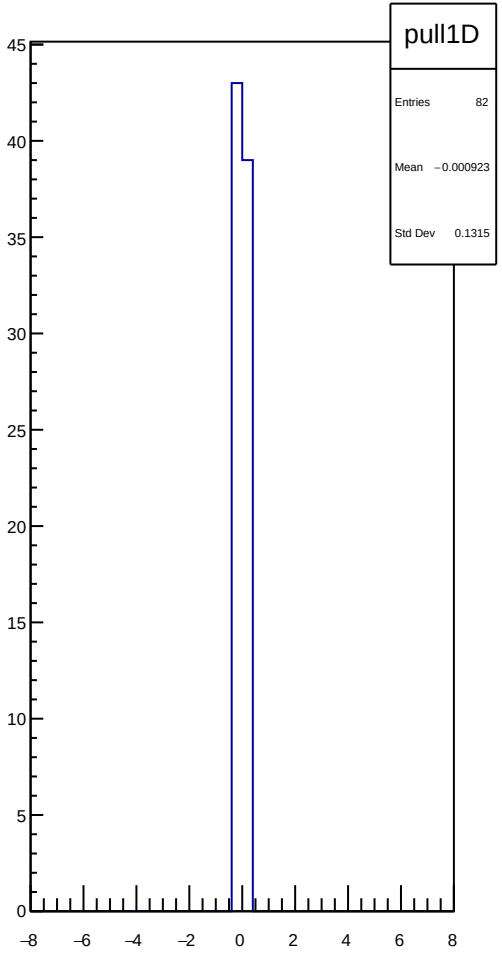

pull1D
Entries 82
Mean 0.003746
Std Dev 0.2015

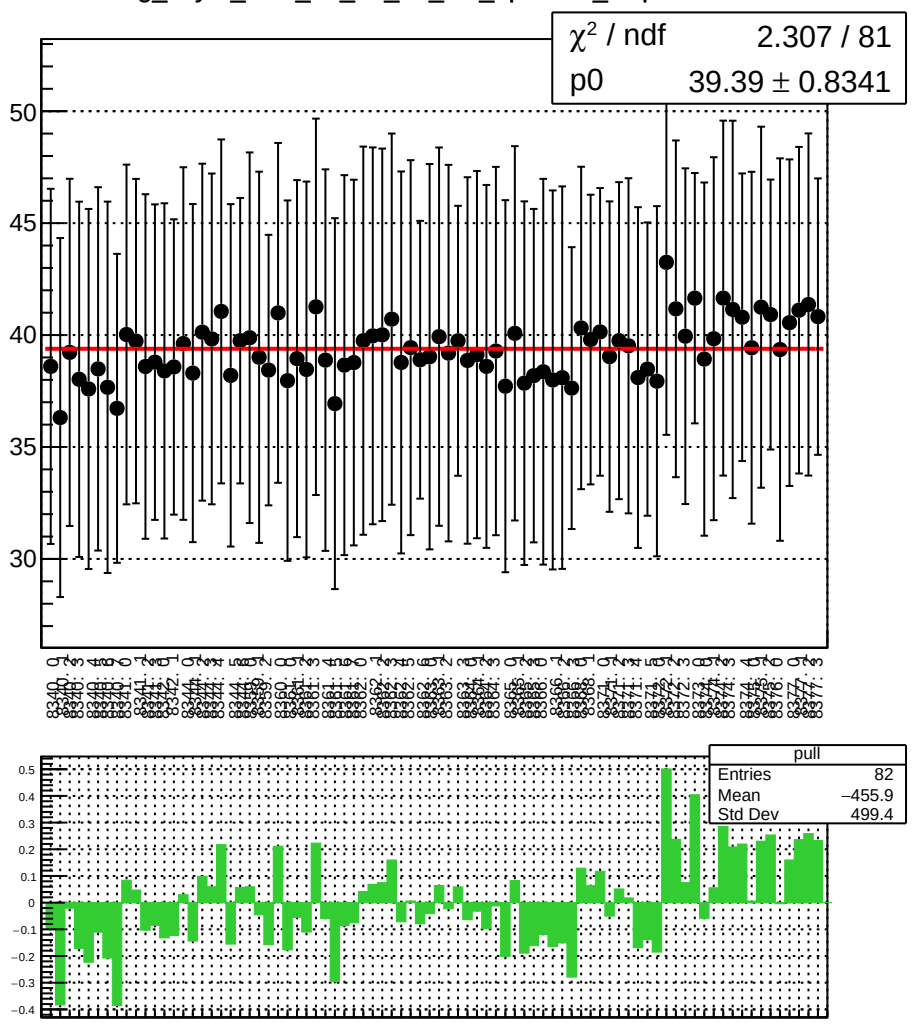

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 4.174 / 81
p0 0.5105 ± 0.06218
pull
Entries 82
Mean 391.8
Std Dev 348.3
pull1D
Entries 82
Mean 0.008912
Std Dev 0.2254

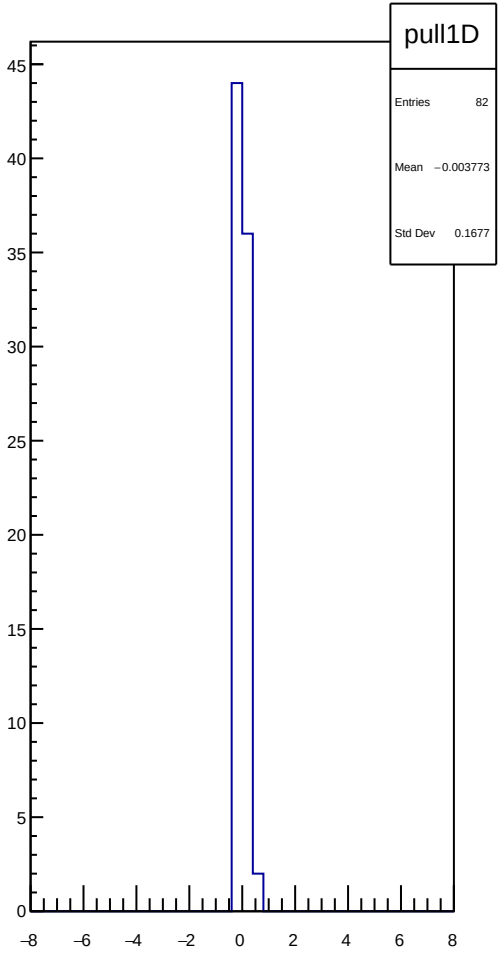

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 2.67 / 81
p0 −0.392 ± 0.7278
pull
Entries 82
Mean −231.8
Std Dev 277.7

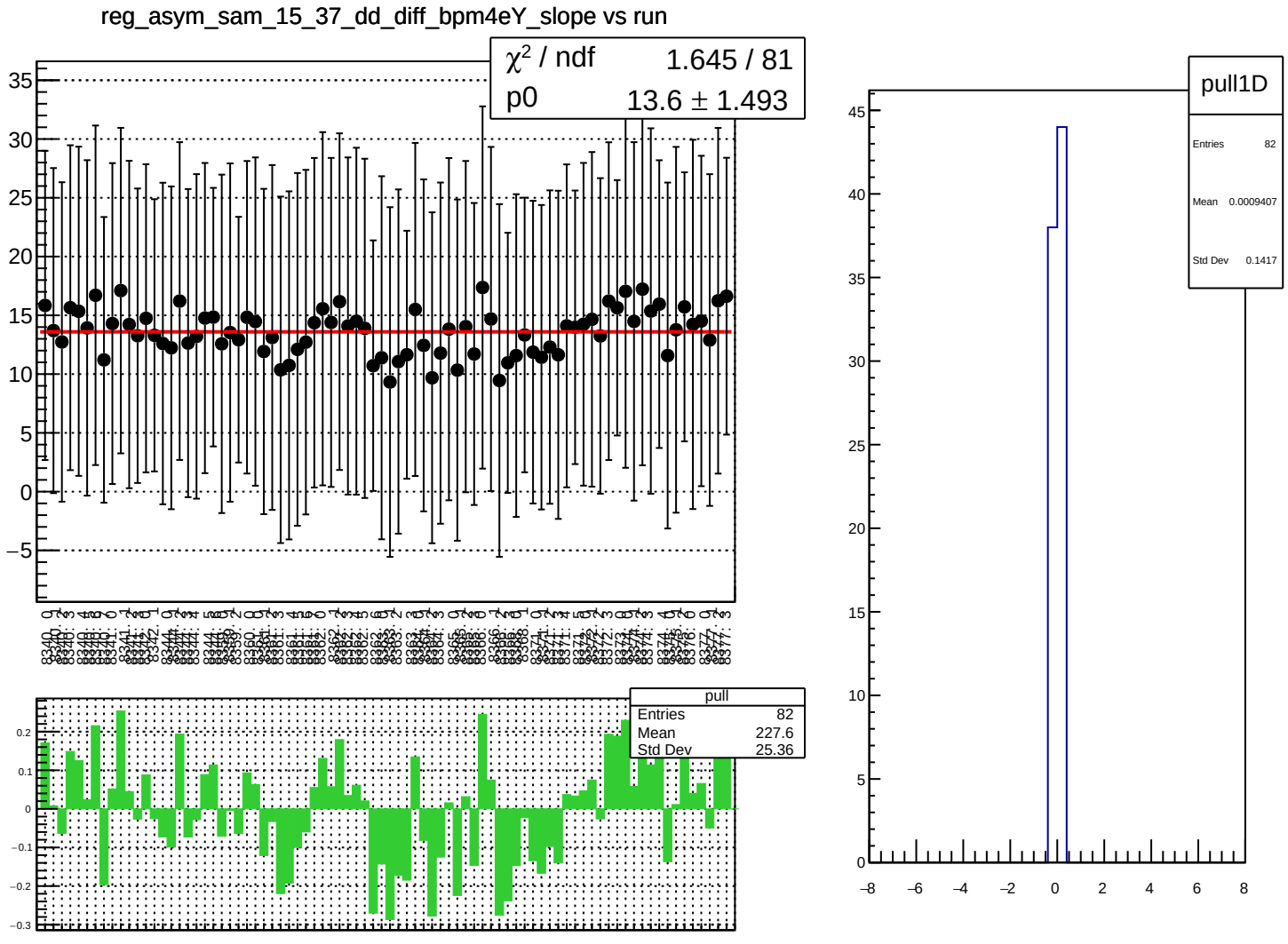

pull1D
Entries 82
Mean 0.008032
Std Dev 0.1803

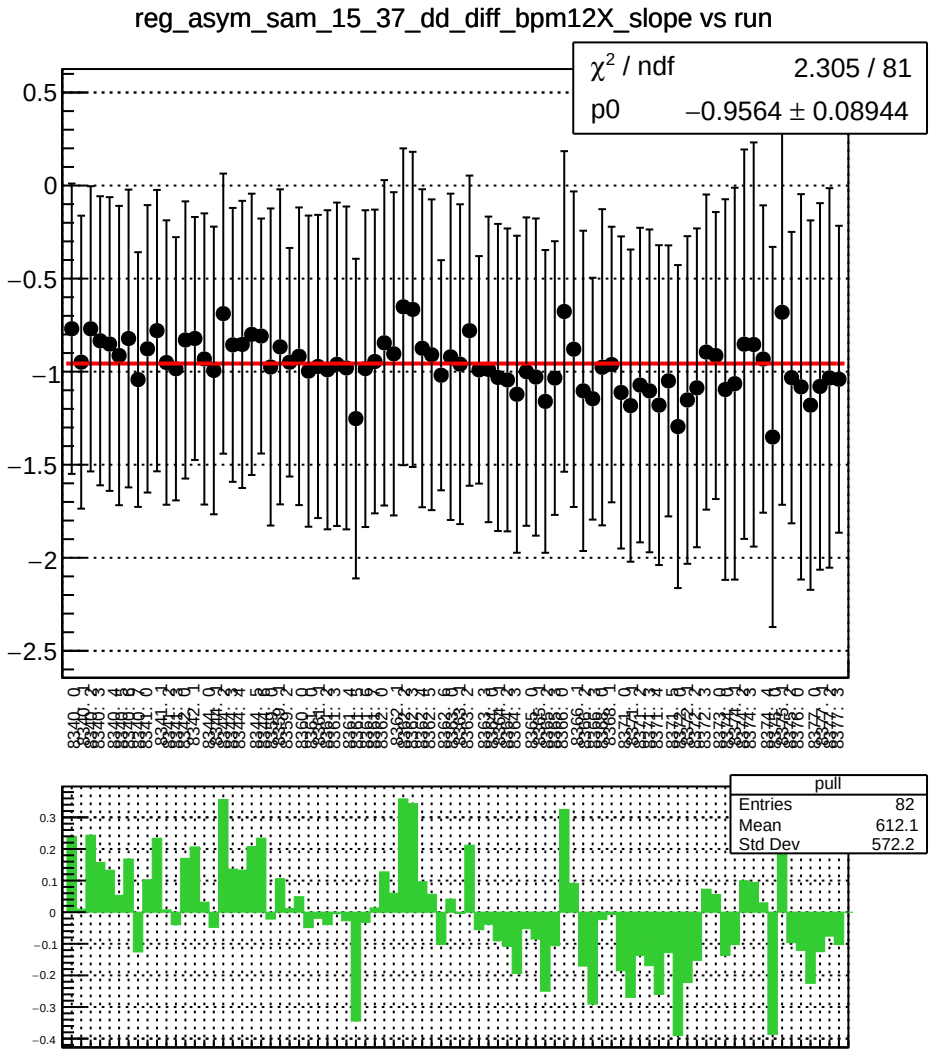

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.418 / 81
p0 10.88 ± 1.446
pull
Entries 82
Mean −0.6586
Std Dev 162.6

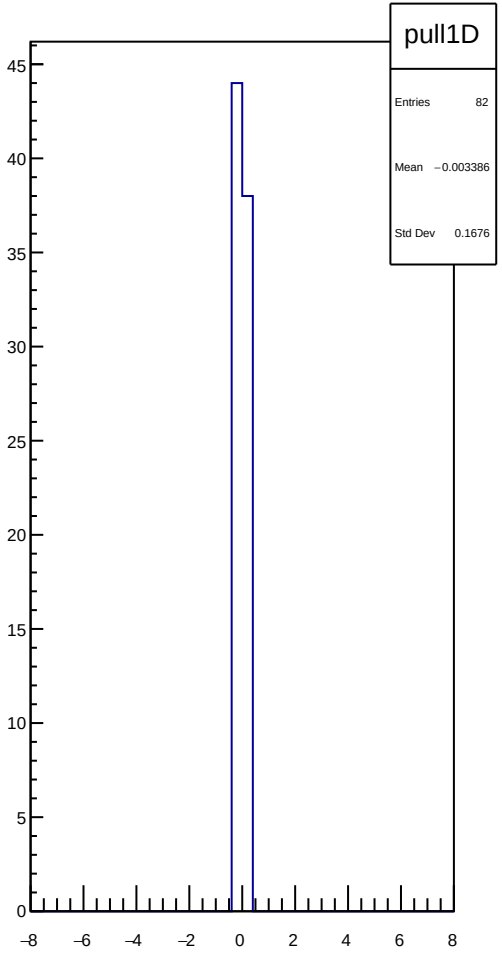

pull1D
Entries 82
Mean −0.000923
Std Dev 0.1315

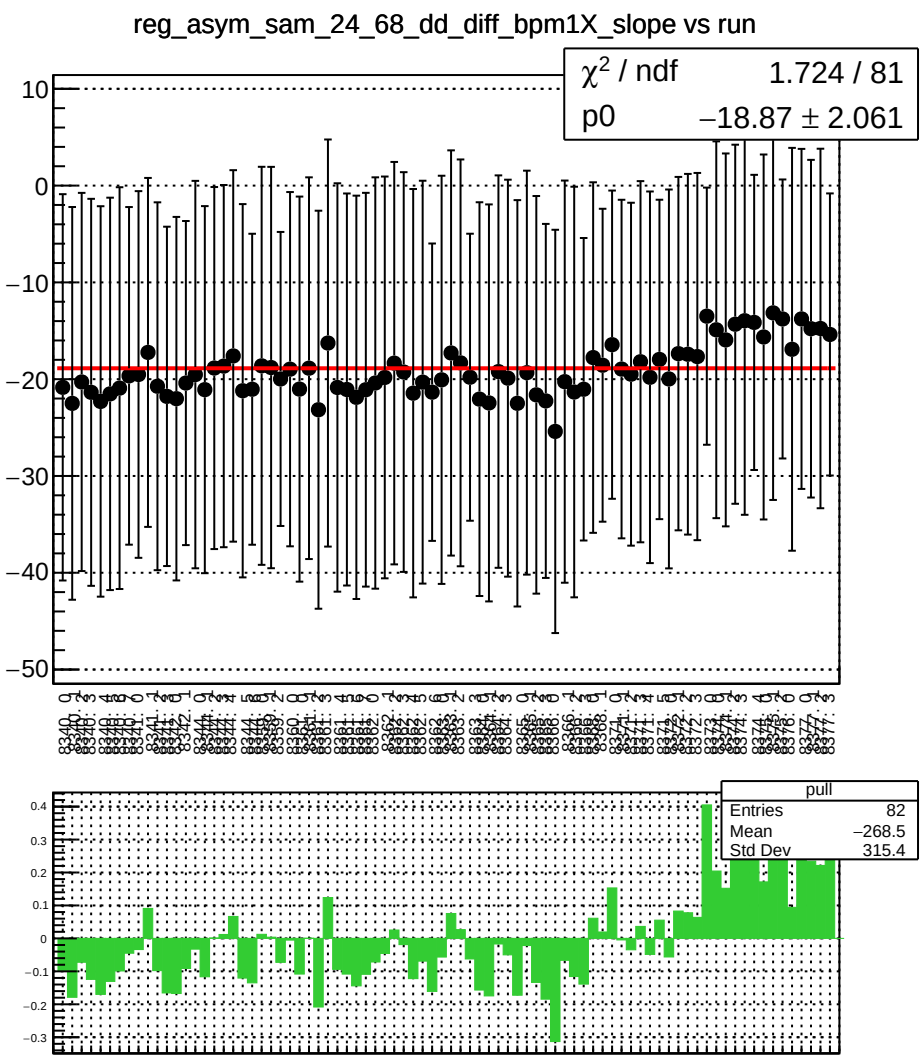

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.307 / 81
p0 39.39 ± 0.8341
pull
Entries 82
Mean −455.9
Std Dev 499.4

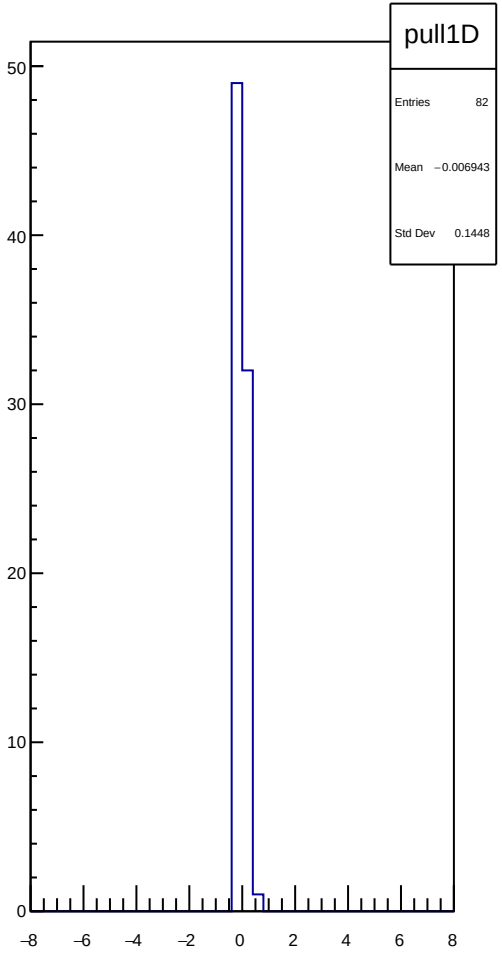

pull1D
Entries 82
Mean −0.003773
Std Dev 0.1677

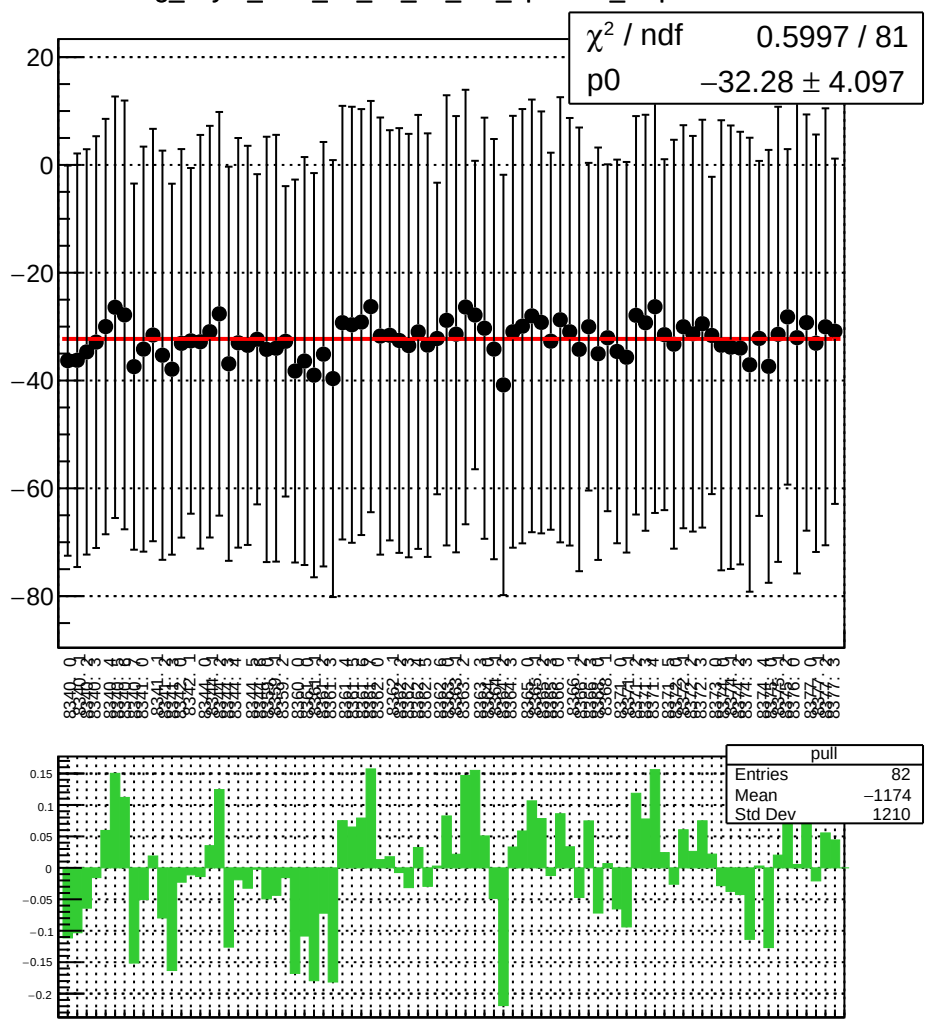

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.645 / 81
p0 13.6 ± 1.493
pull
Entries 82
Mean 227.6
Std Dev 25.36
pull1D
Entries 82
Mean 0.0009407
Std Dev 0.1417

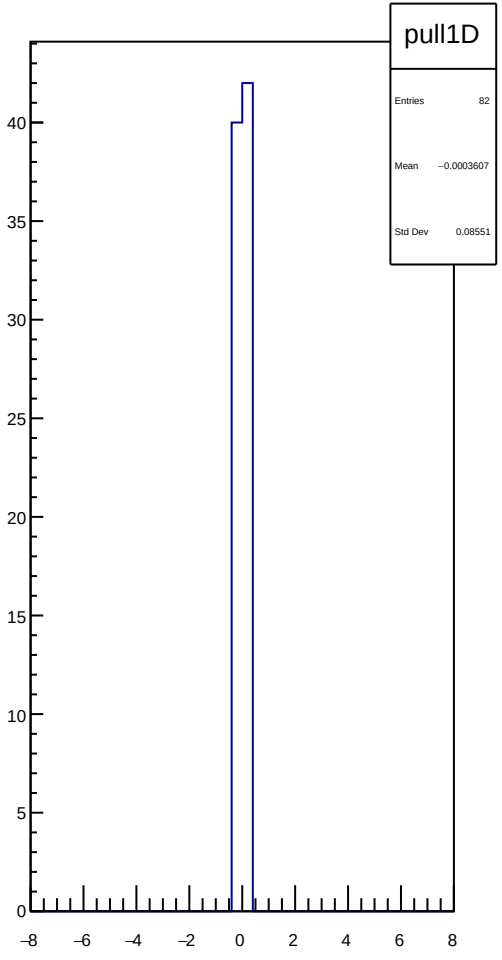

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.305 / 81
p0 −0.9564 ± 0.08944
pull
Entries 82
Mean 612.1
Std Dev 572.2

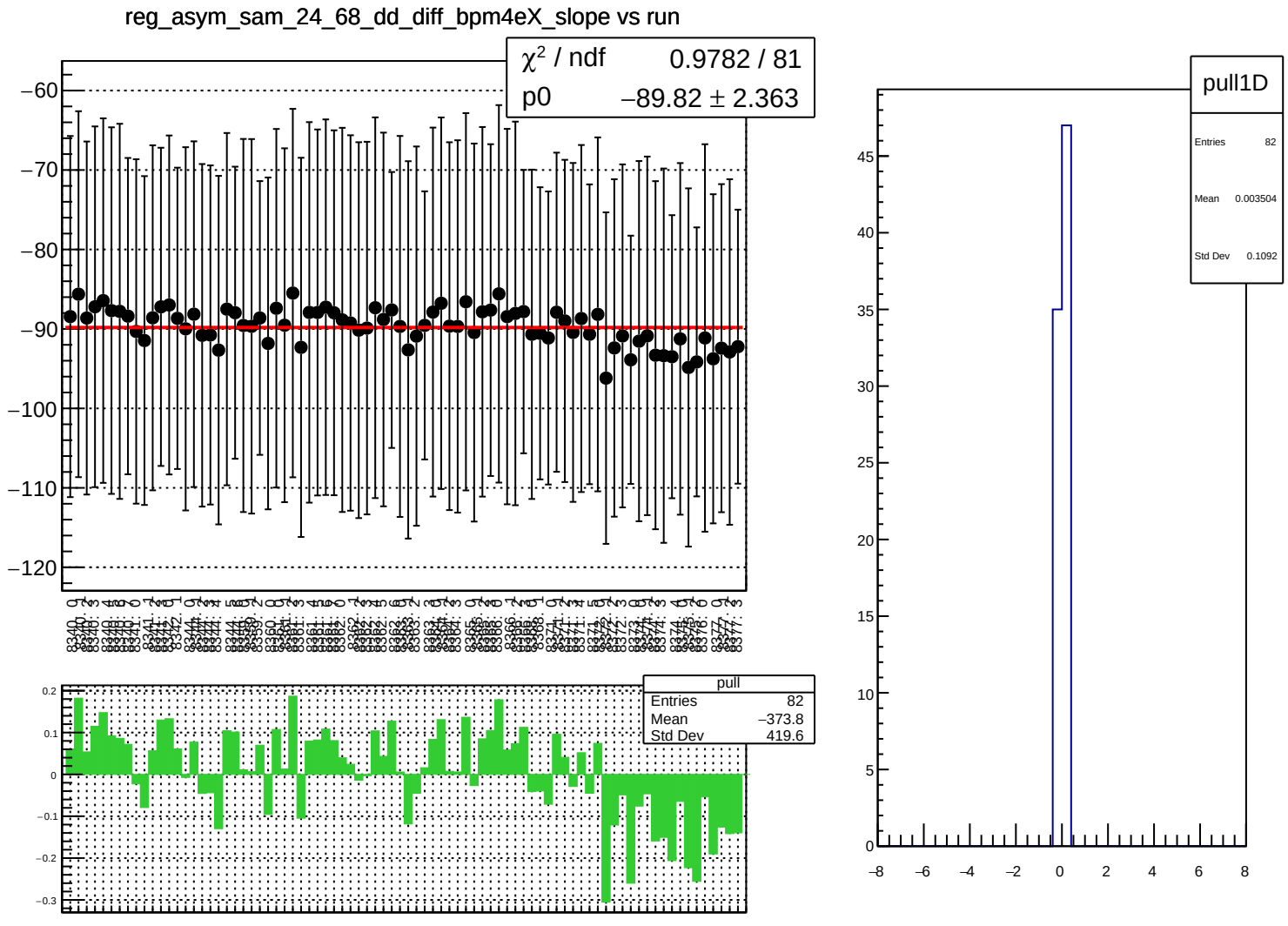

pull1D
Entries 82
Mean −0.003386
Std Dev 0.1676

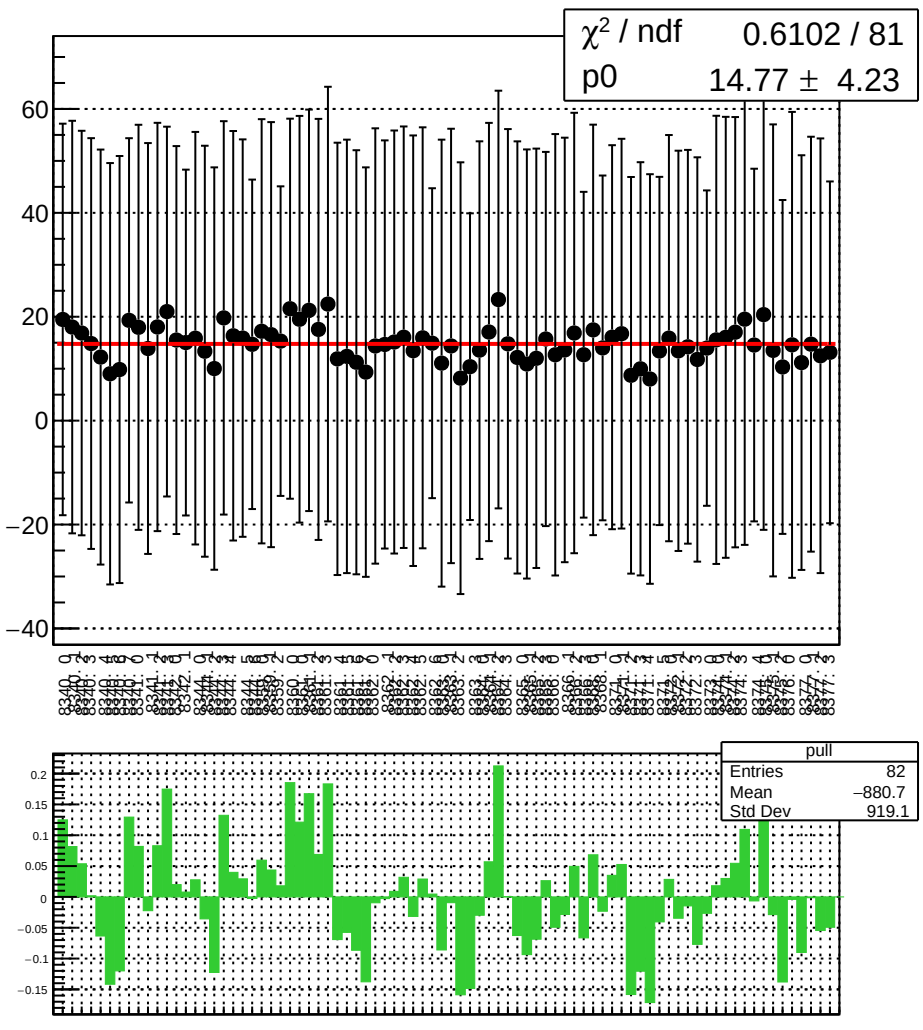

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 1.724 / 81
p0 −18.87 ± 2.061
pull
Entries 82
Mean −268.5
Std Dev 315.4

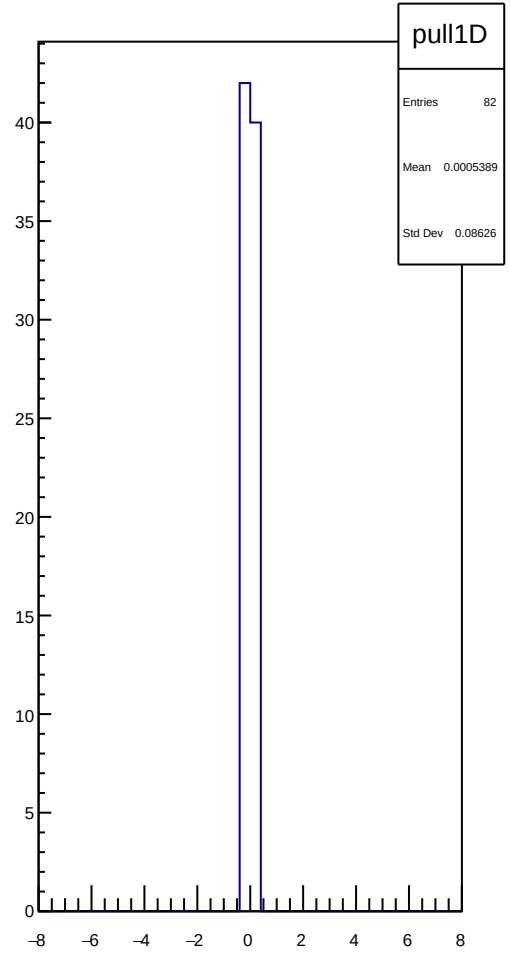

pull1D
Entries 82
Mean −0.006943
Std Dev 0.1448

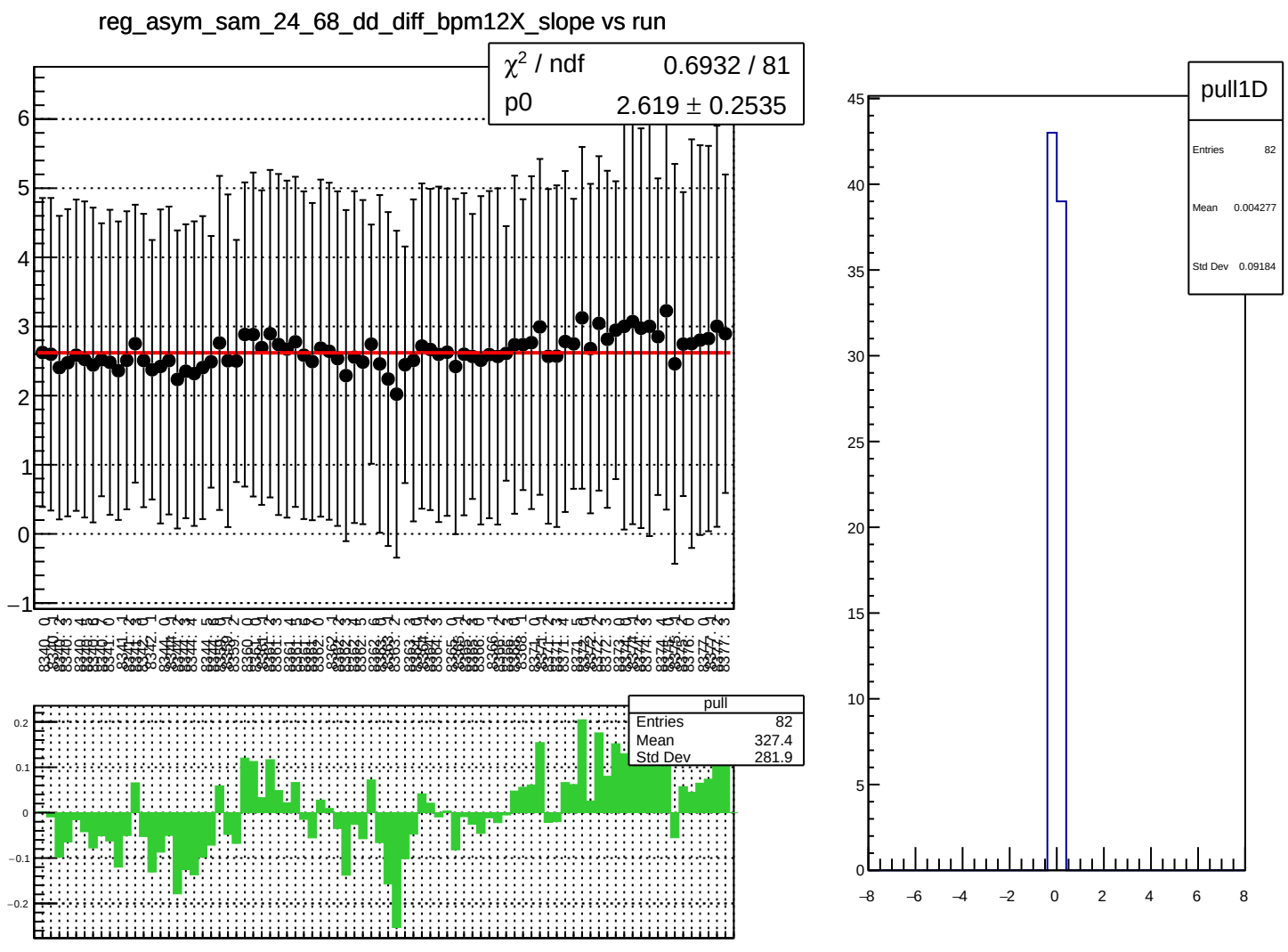

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.5997 / 81
p0 −32.28 ± 4.097
pull
Entries 82
Mean −1174
Std Dev 1210

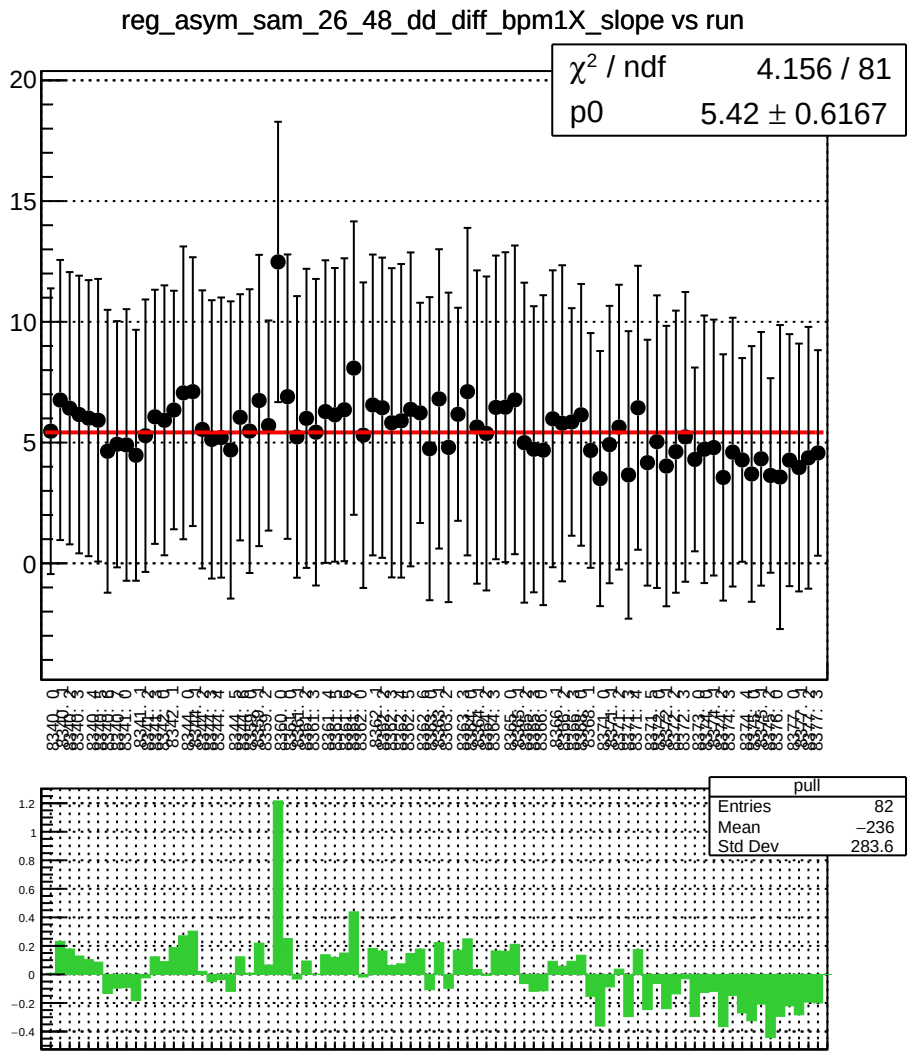

pull1D
Entries 82
Mean −0.0003607
Std Dev 0.08551

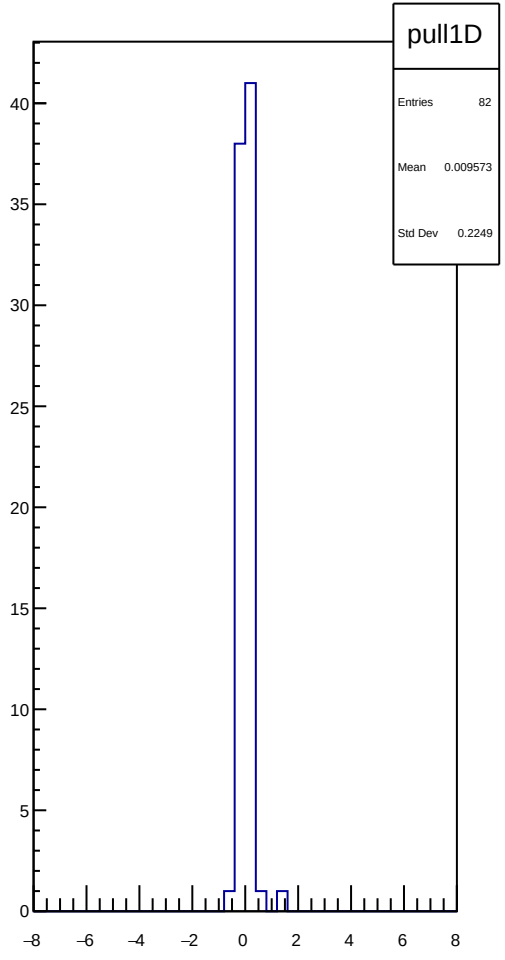

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.9782 / 81
p0 −89.82 ± 2.363
pull
Entries 82
Mean −373.8
Std Dev 419.6
pull1D
Entries 82
Mean 0.003504
Std Dev 0.1092

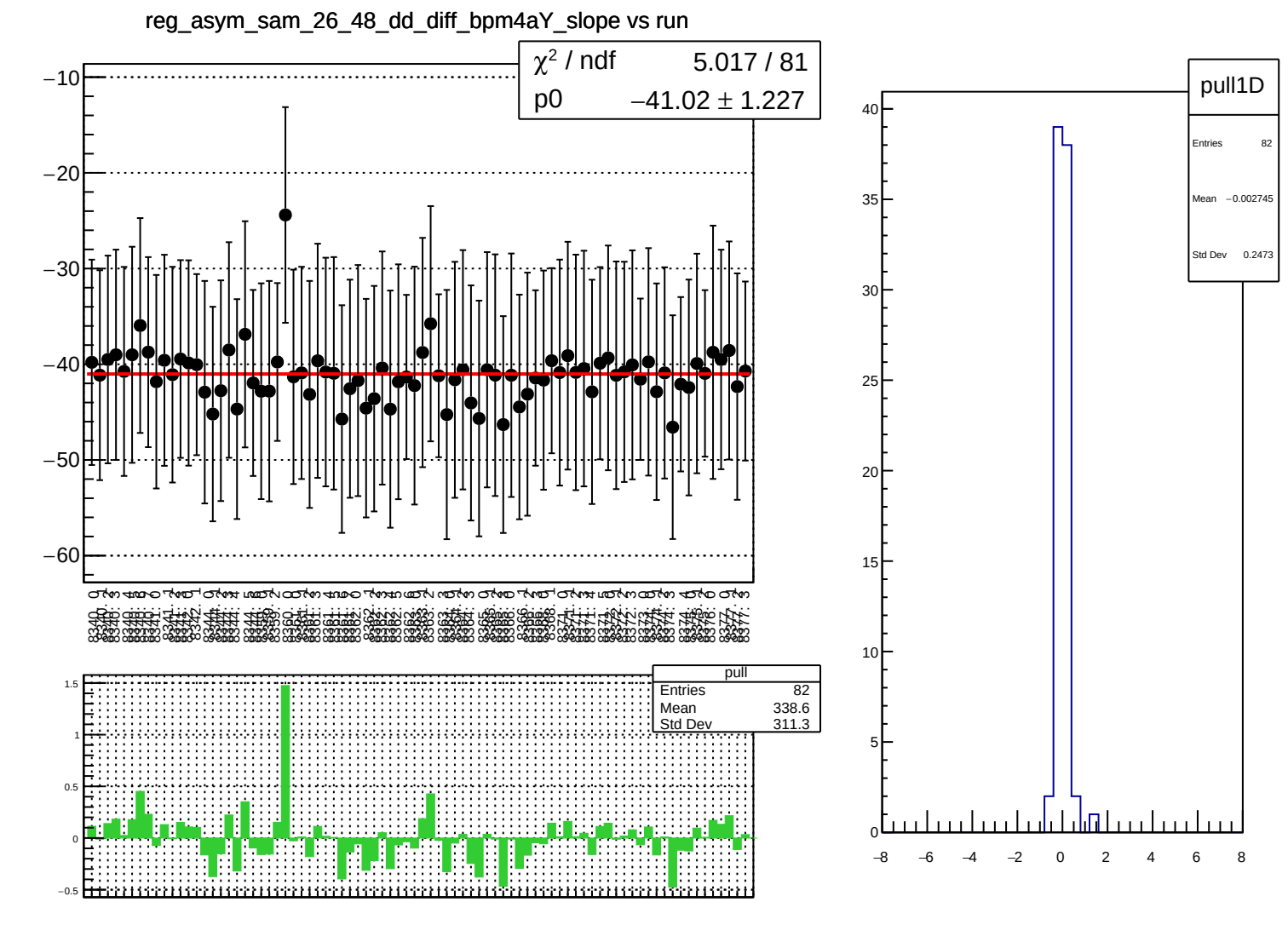

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.6102 / 81
p0 14.77 ± 4.23
pull
Entries 82
Mean −880.7
Std Dev 919.1

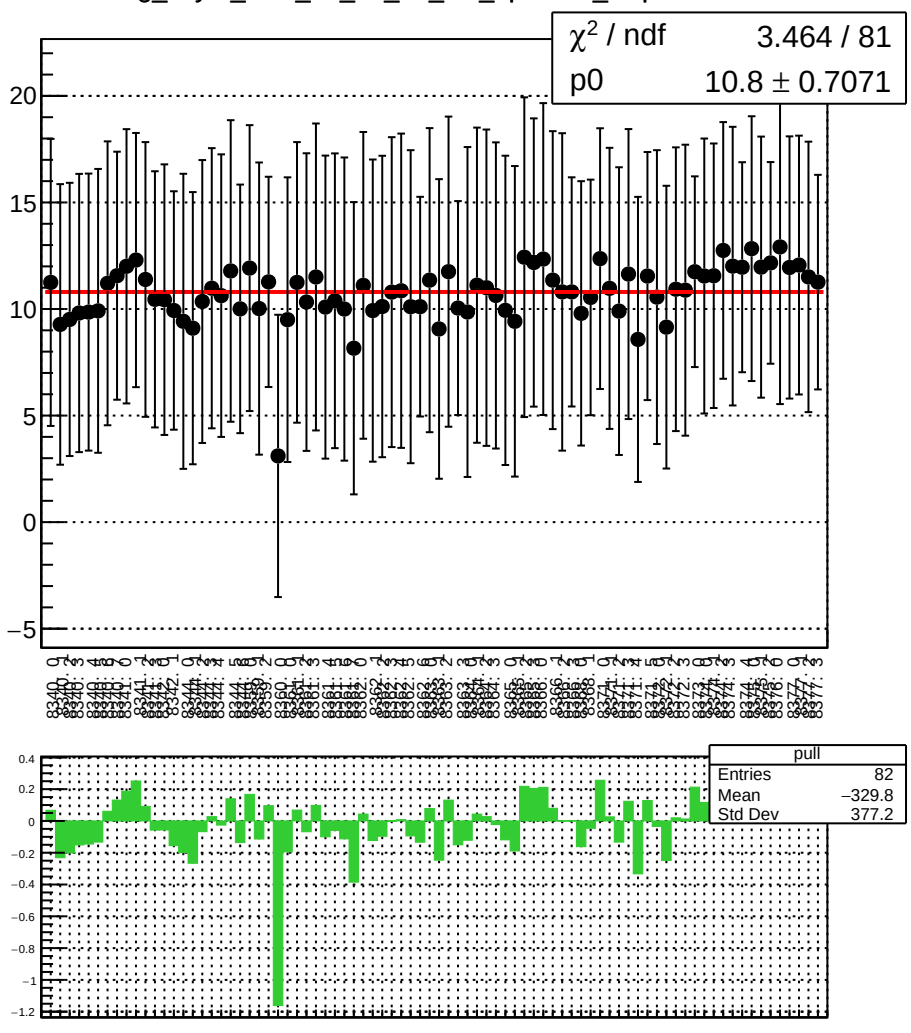

pull1D
Entries 82
Mean 0.0005389
Std Dev 0.08626

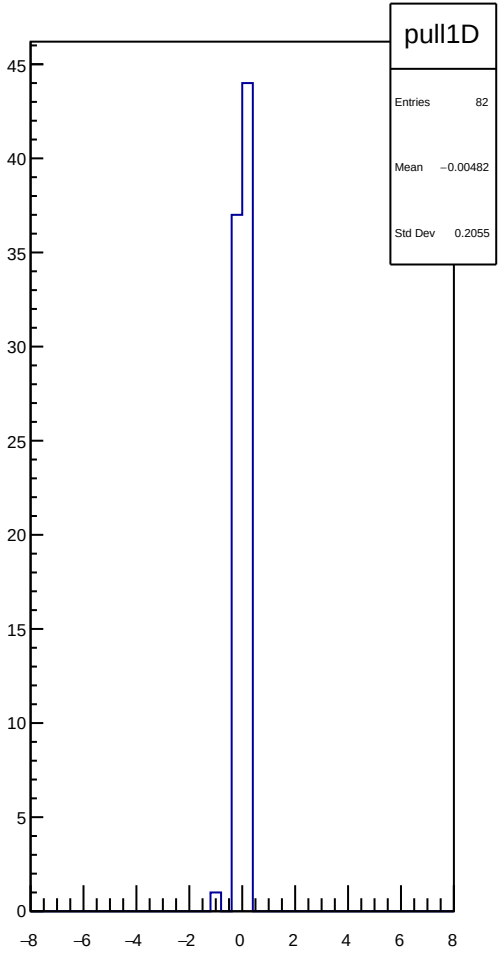

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6932 / 81
p0 2.619 ± 0.2535
pull
Entries 82
Mean 327.4
Std Dev 281.9
pull1D
Entries 82
Mean 0.004277
Std Dev 0.09184

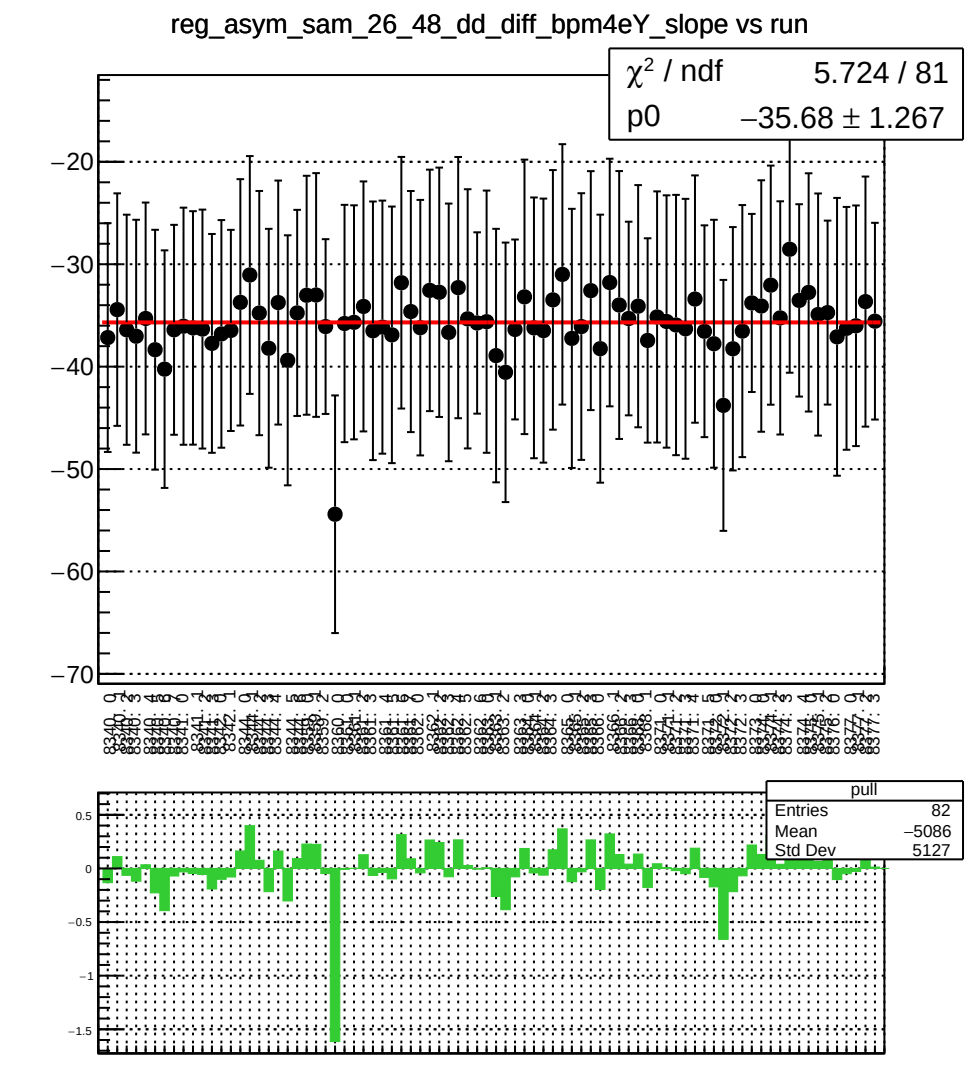

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.156 / 81
p0 5.42 ± 0.6167
pull
Entries 82
Mean −236
Std Dev 283.6

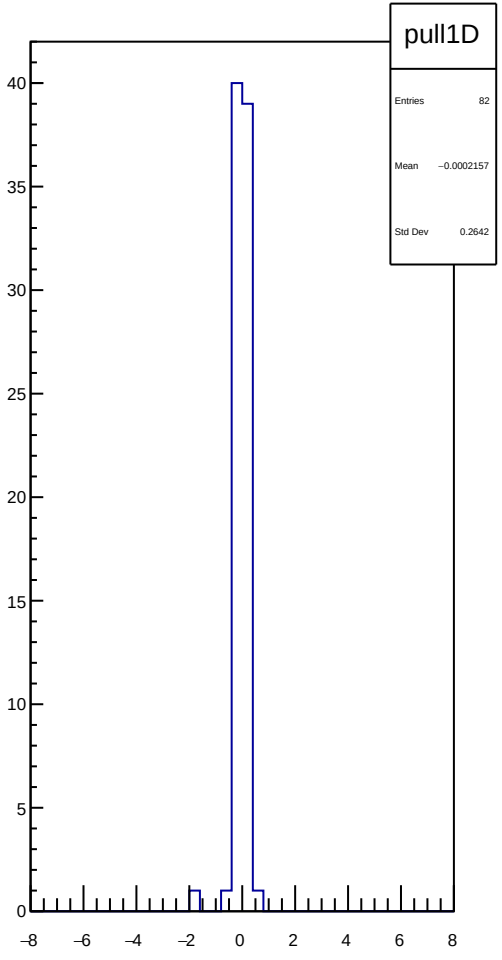

pull1D
Entries 82
Mean 0.009573
Std Dev 0.2249

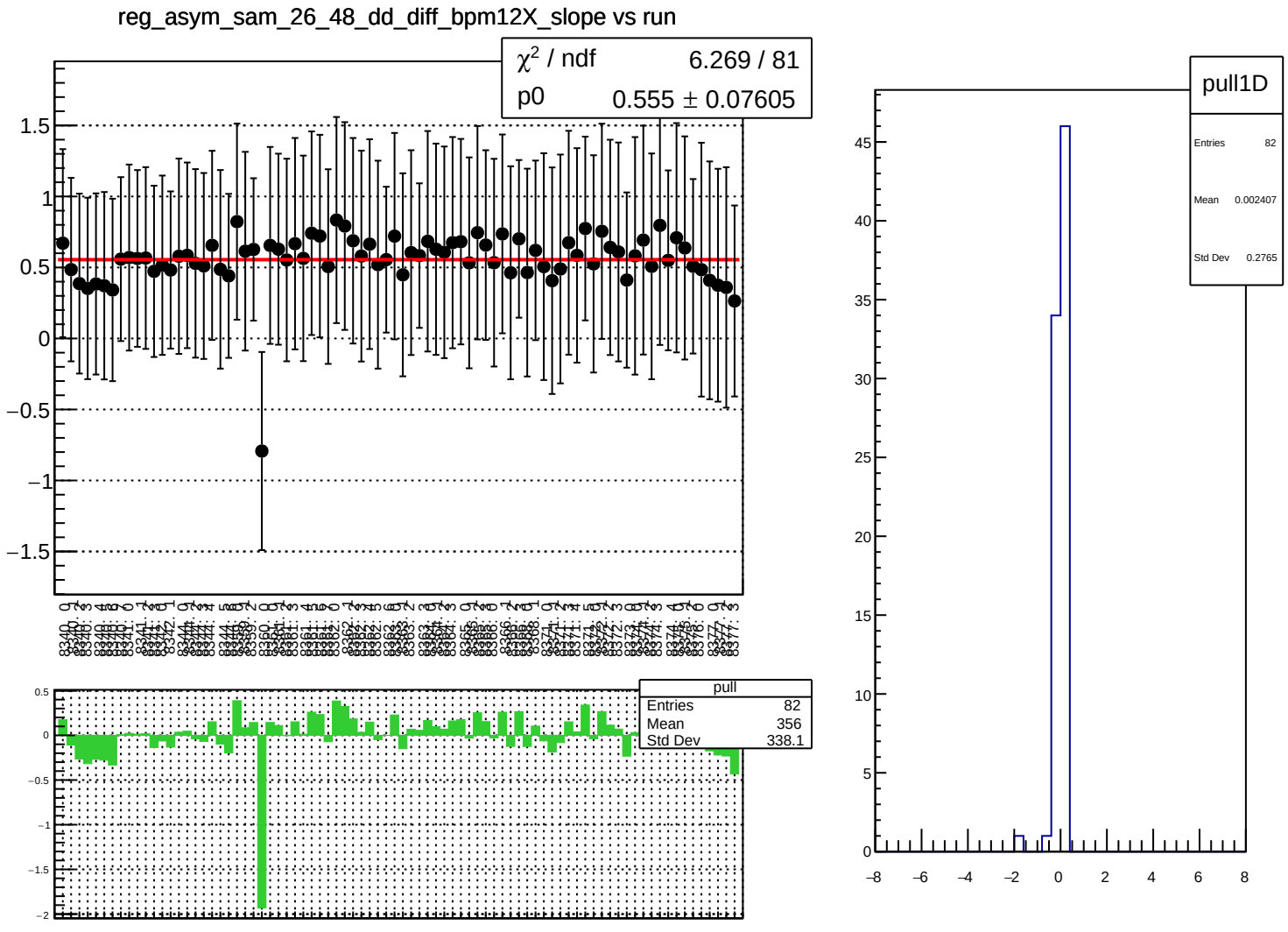

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.017 / 81
p0 −41.02 ± 1.227
pull
Entries 82
Mean 338.6
Std Dev 311.3
pull1D
Entries 82
Mean −0.002745
Std Dev 0.2473

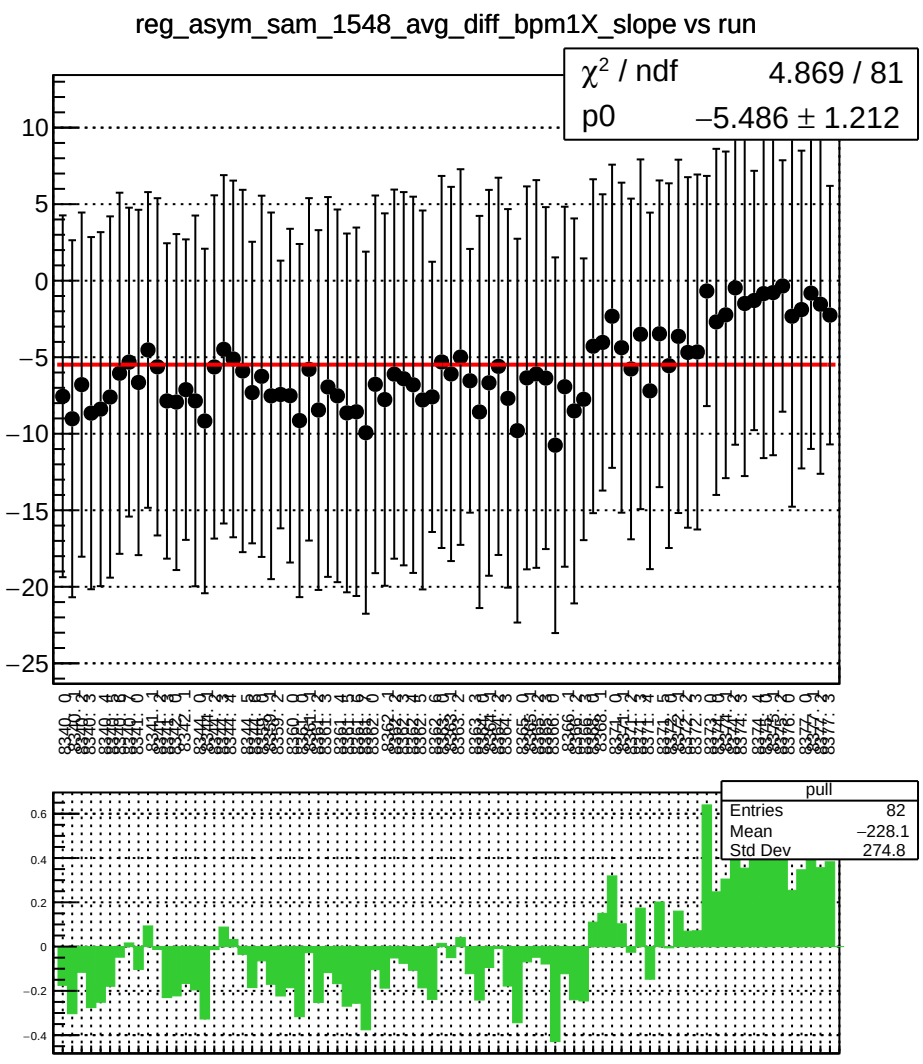

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.464 / 81
p0 10.8 ± 0.7071
pull
Entries 82
Mean −329.8
Std Dev 377.2

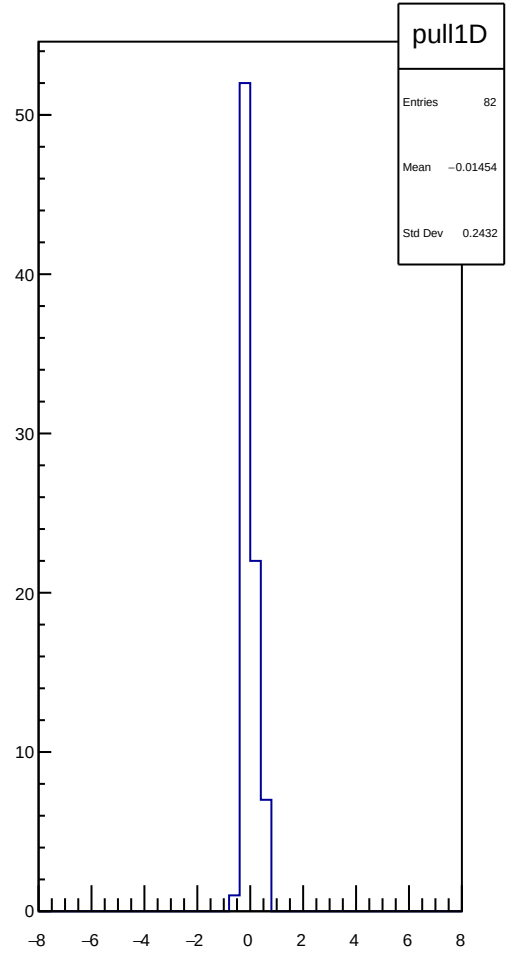

pull1D
Entries 82
Mean −0.00482
Std Dev 0.2055

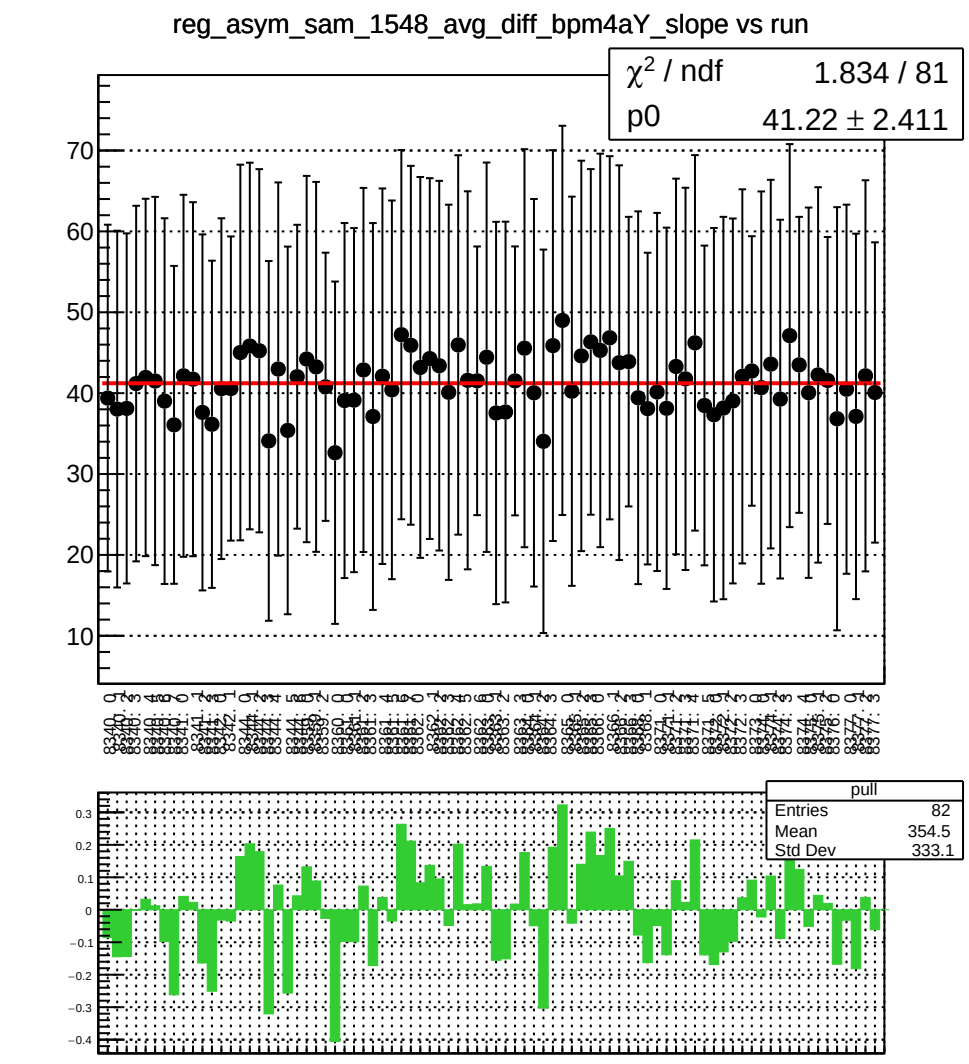

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.724 / 81
p0 −35.68 ± 1.267
pull
Entries 82
Mean −5086
Std Dev 5127

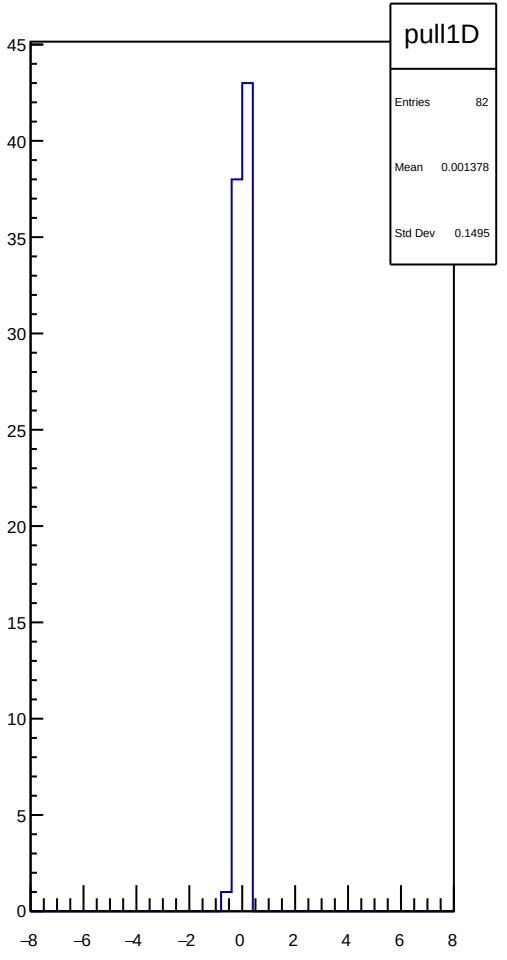

pull1D
Entries 82
Mean −0.0002157
Std Dev 0.2642

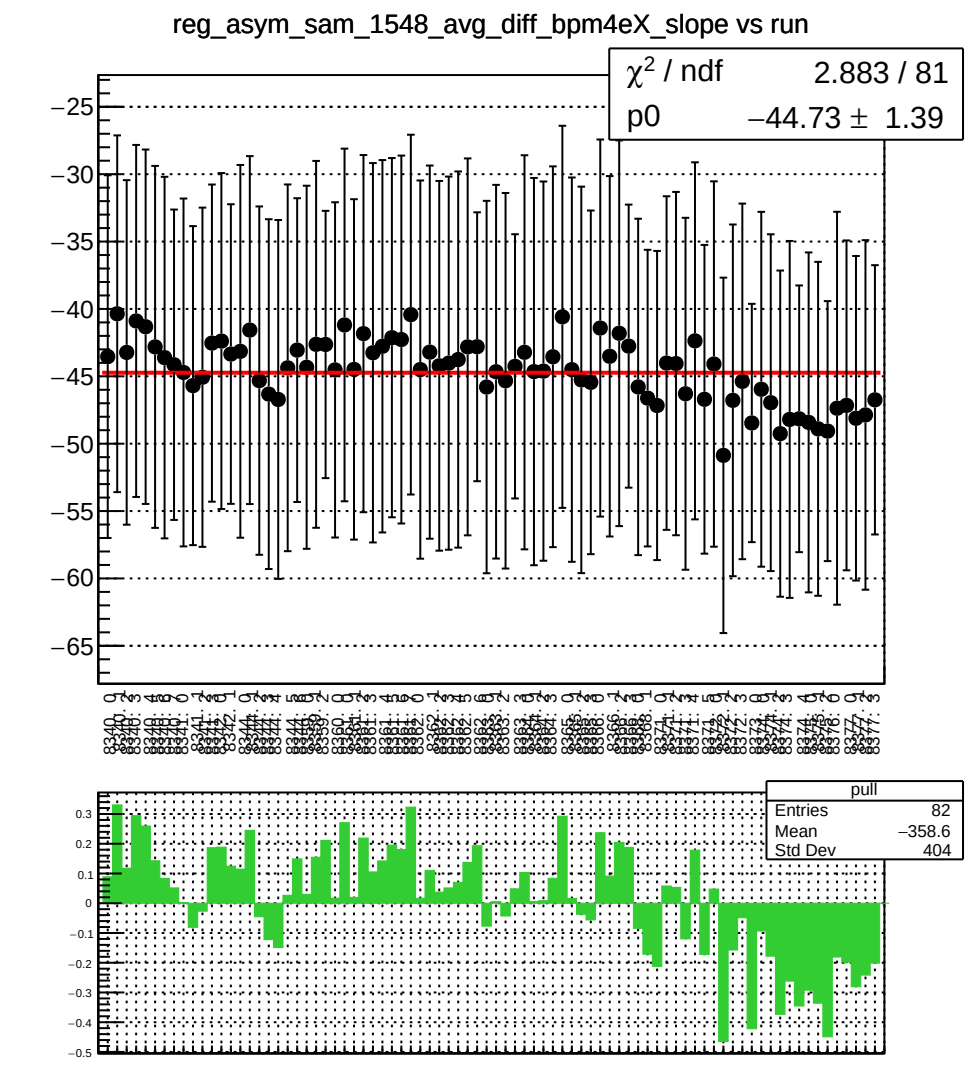

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 6.269 / 81
p0 0.555 ± 0.07605
pull
Entries 82
Mean 356
Std Dev 338.1
pull1D
Entries 82
Mean 0.002407
Std Dev 0.2765

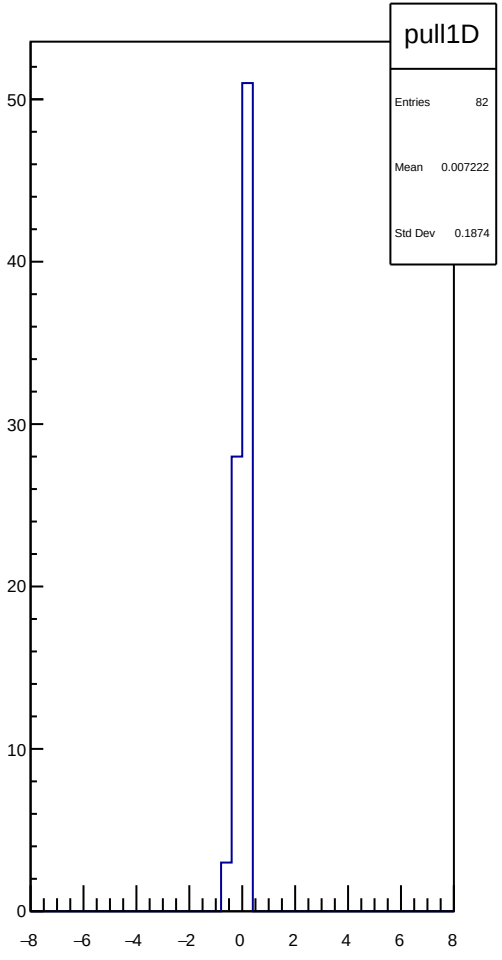

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 4.869 / 81
p0 −5.486 ± 1.212
pull
Entries 82
Mean −228.1
Std Dev 274.8

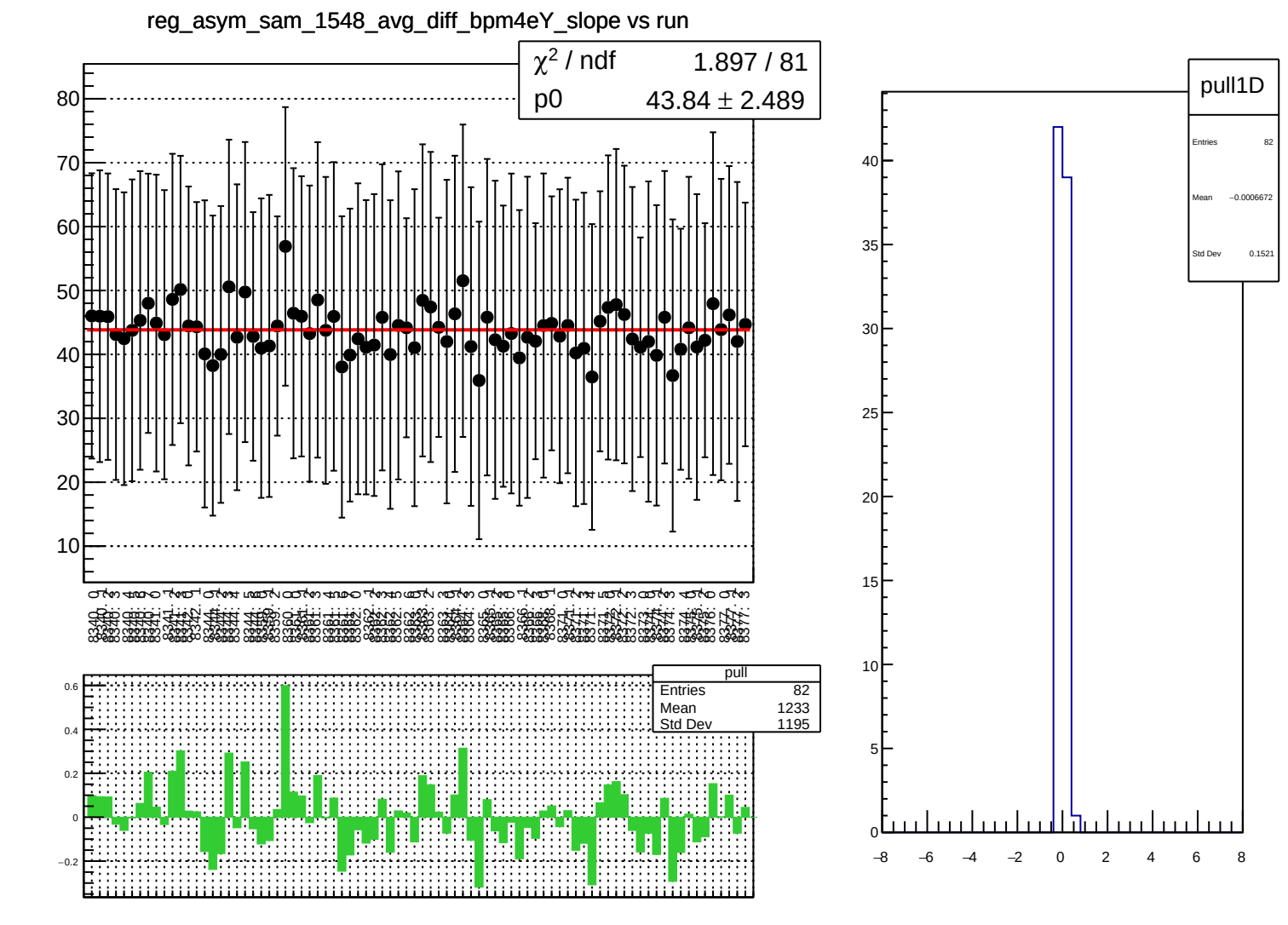

pull1D
Entries 82
Mean −0.01454
Std Dev 0.2432

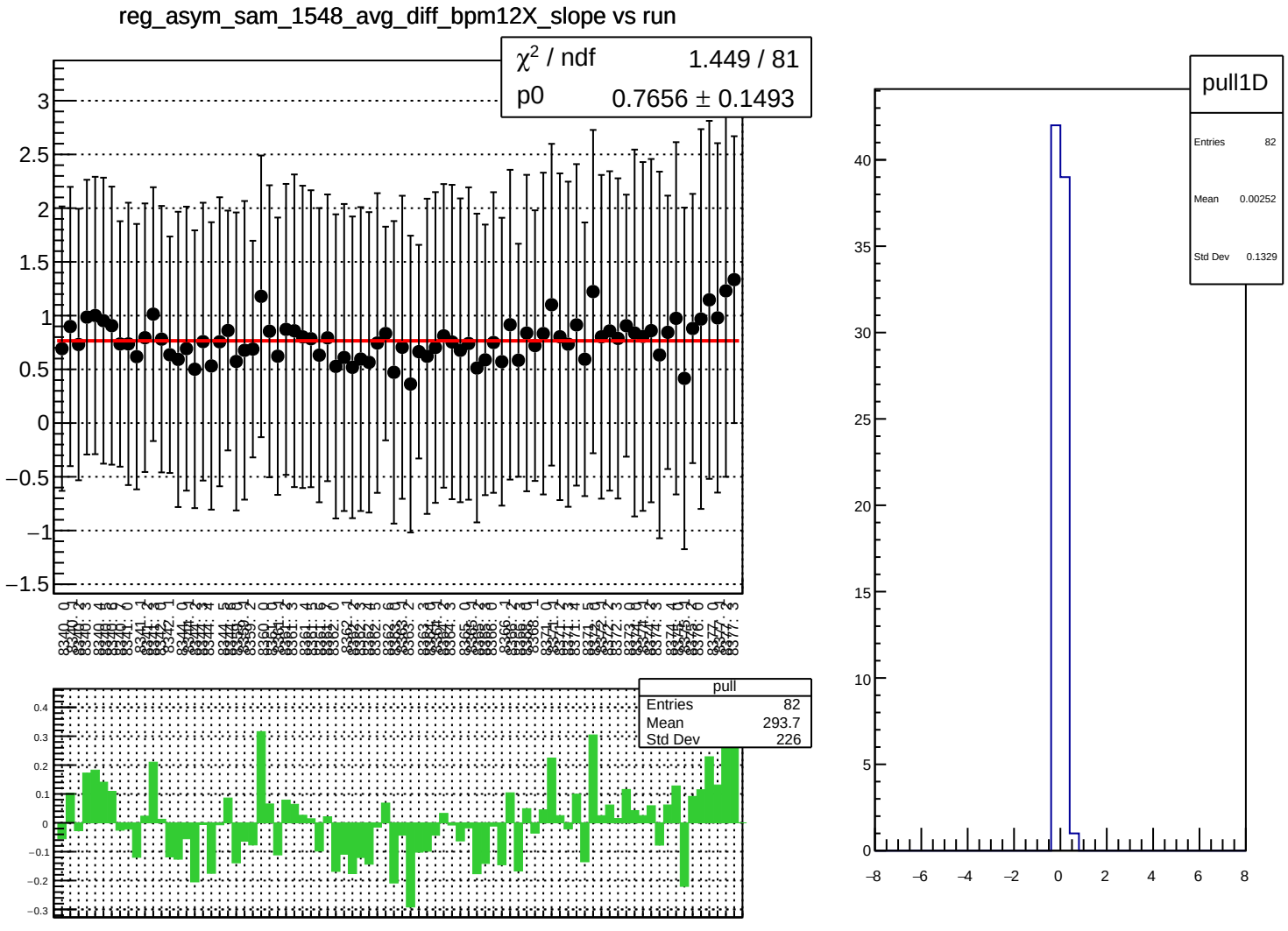

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.834 / 81
p0 41.22 ± 2.411
pull
Entries 82
Mean 354.5
Std Dev 333.1

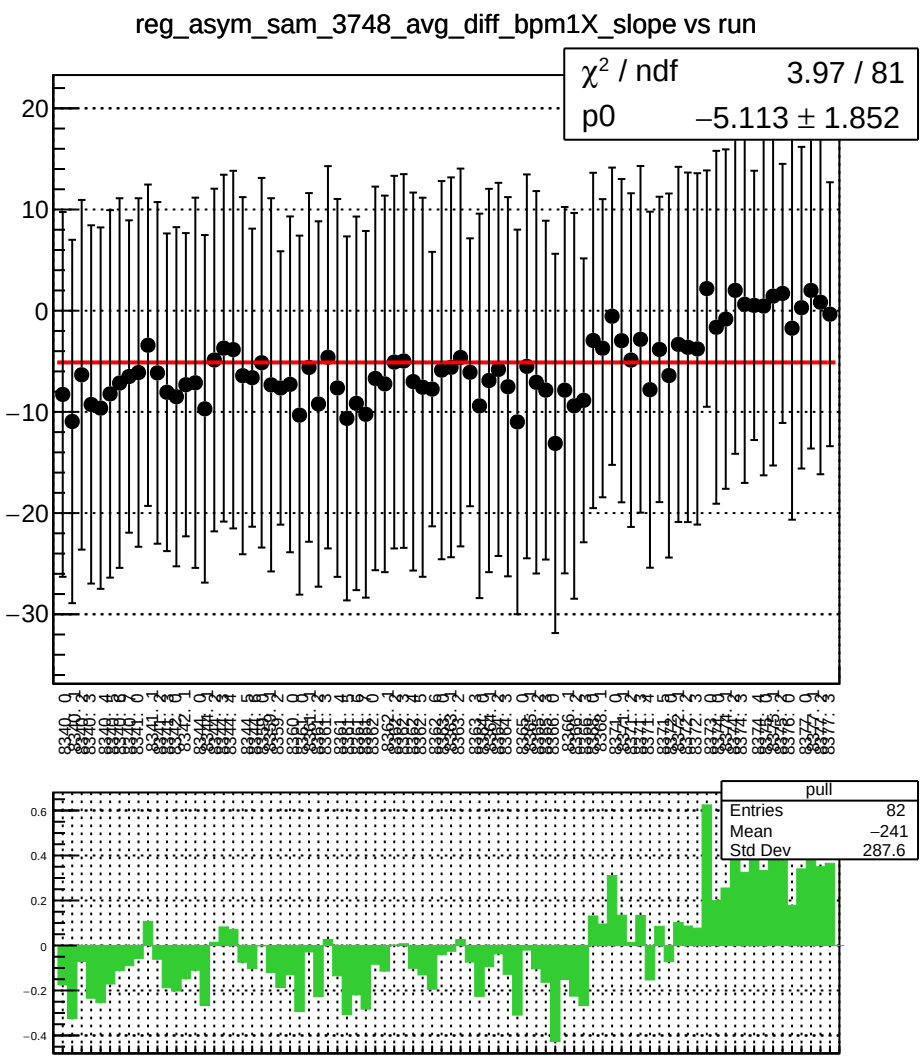

pull1D
Entries 82
Mean 0.001378
Std Dev 0.1495

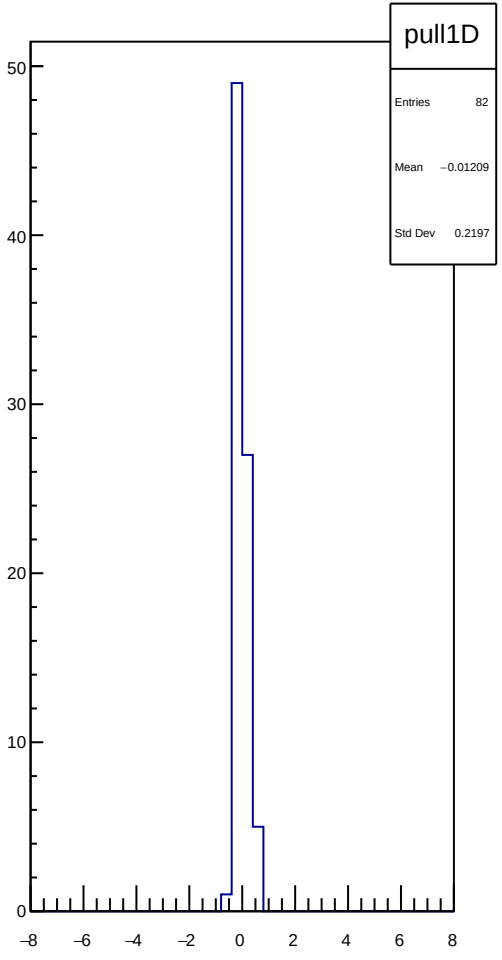

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.883 / 81
p0 −44.73 ± 1.39
pull
Entries 82
Mean −358.6
Std Dev 404

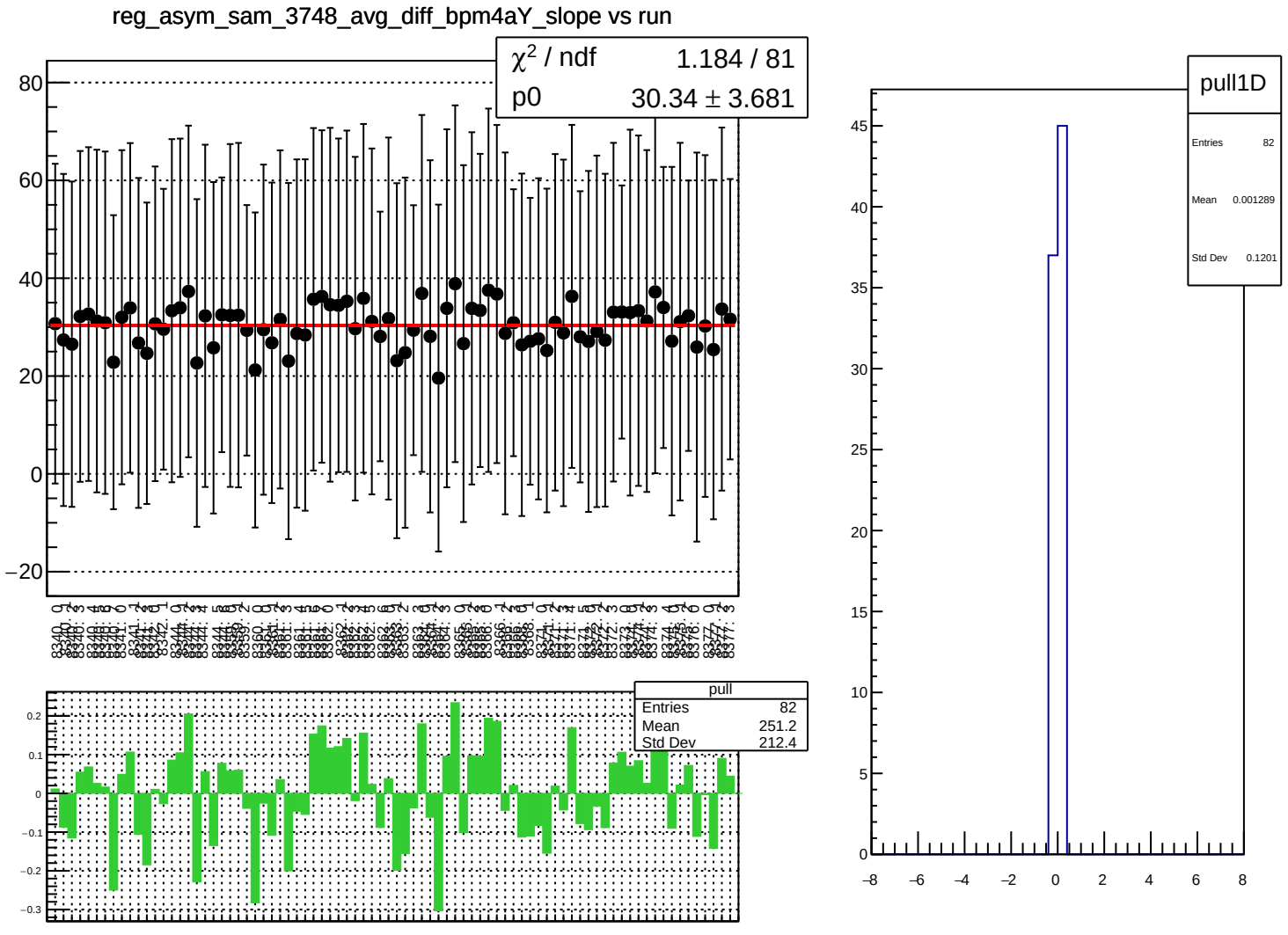

pull1D
Entries 82
Mean 0.007222
Std Dev 0.1874

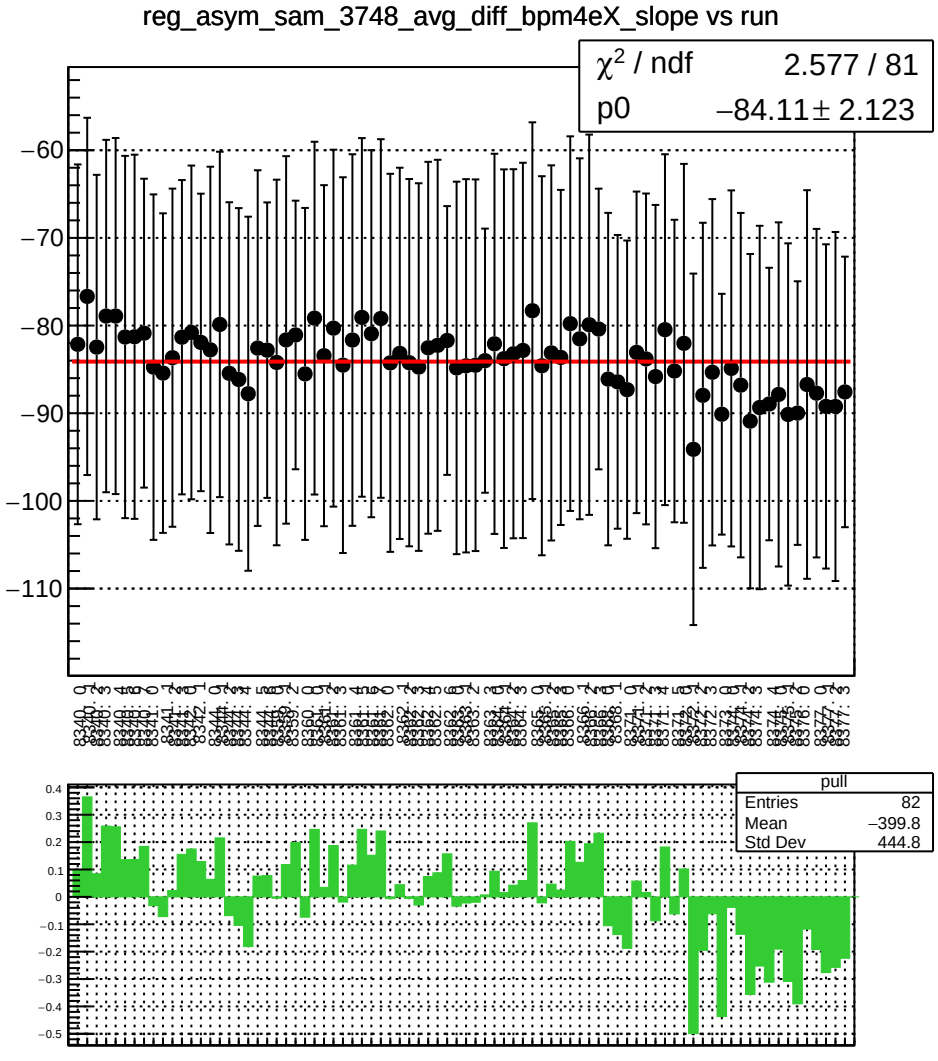

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.897 / 81
p0 43.84 ± 2.489
pull
Entries 82
Mean 1233
Std Dev 1195
pull1D
Entries 82
Mean −0.0006672
Std Dev 0.1521

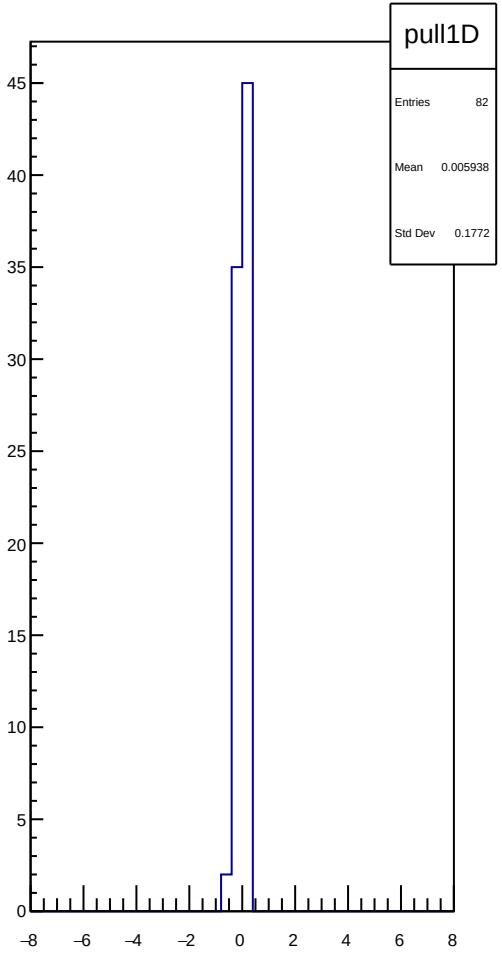

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 1.449 / 81
p0 0.7656 ± 0.1493
pull
Entries 82
Mean 293.7
Std Dev 226
pull1D
Entries 82
Mean 0.00252
Std Dev 0.1329

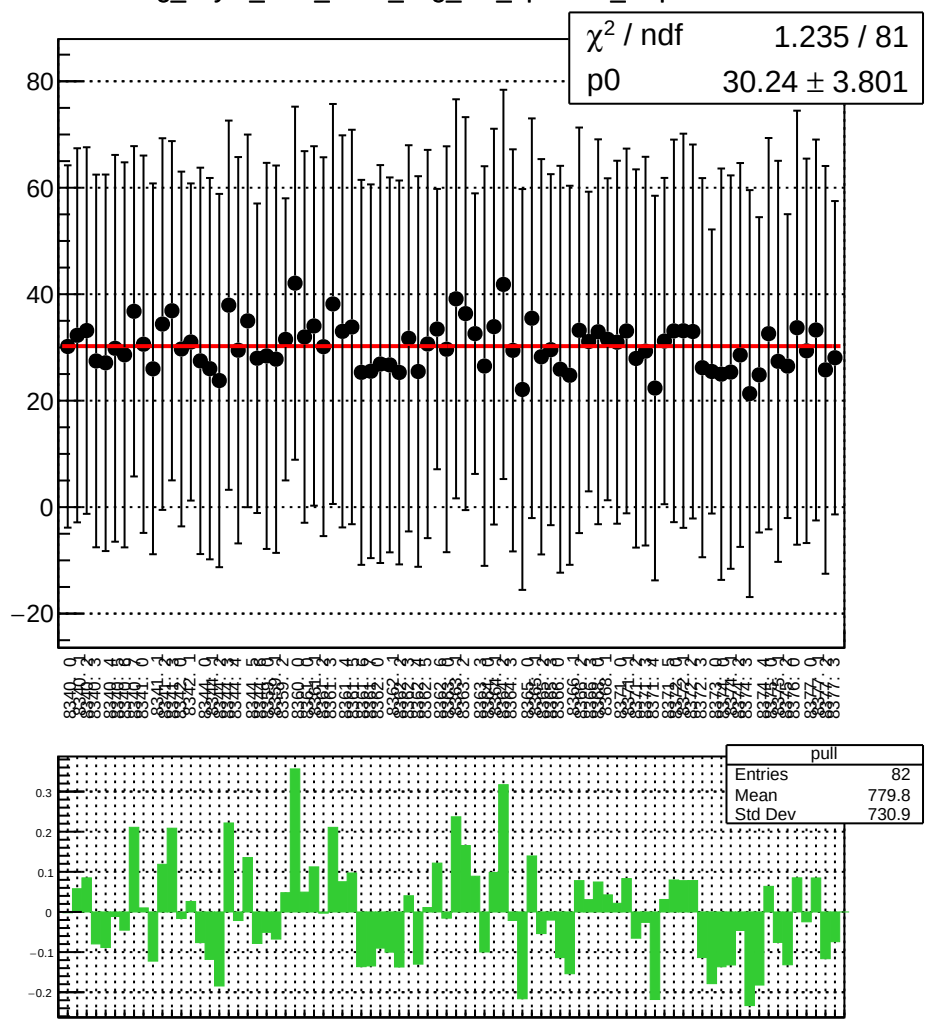

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 3.97 / 81
p0 −5.113 ± 1.852
pull
Entries 82
Mean −241
Std Dev 287.6

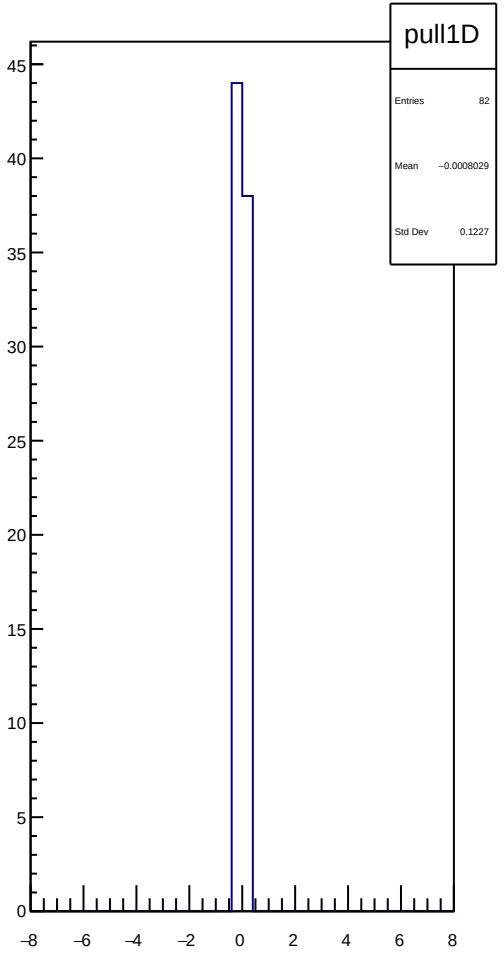

pull1D
Entries 82
Mean −0.01209
Std Dev 0.2197

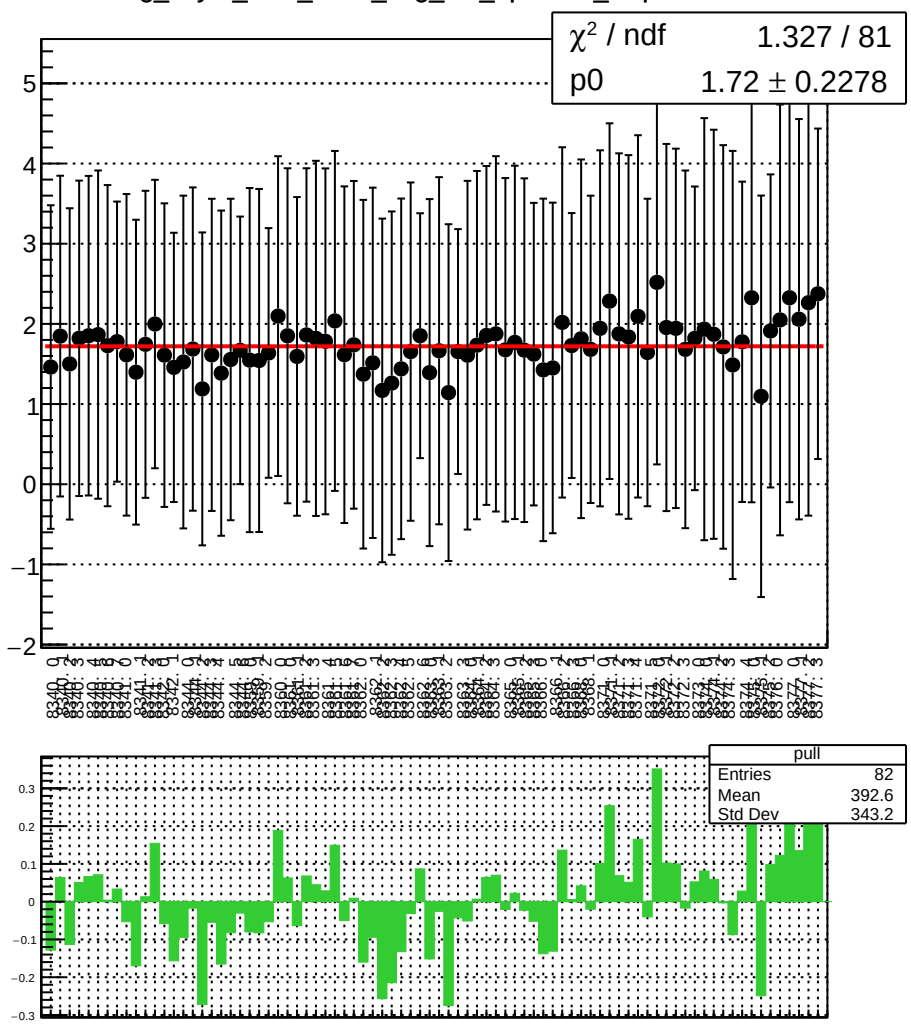

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.184 / 81
p0 30.34 ± 3.681
pull
Entries 82
Mean 251.2
Std Dev 212.4
pull1D
Entries 82
Mean 0.001289
Std Dev 0.1201

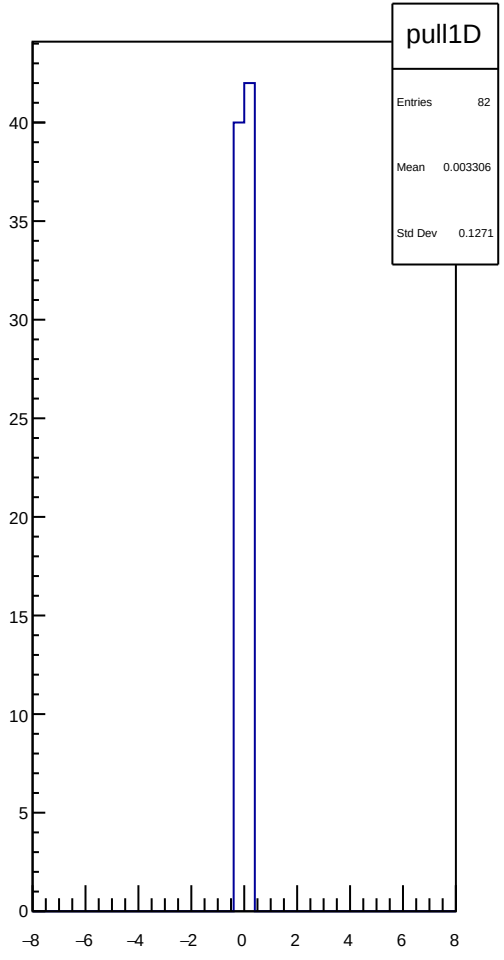

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.577 / 81
p0 −84.11 ± 2.123
pull
Entries 82
Mean −399.8
Std Dev 444.8

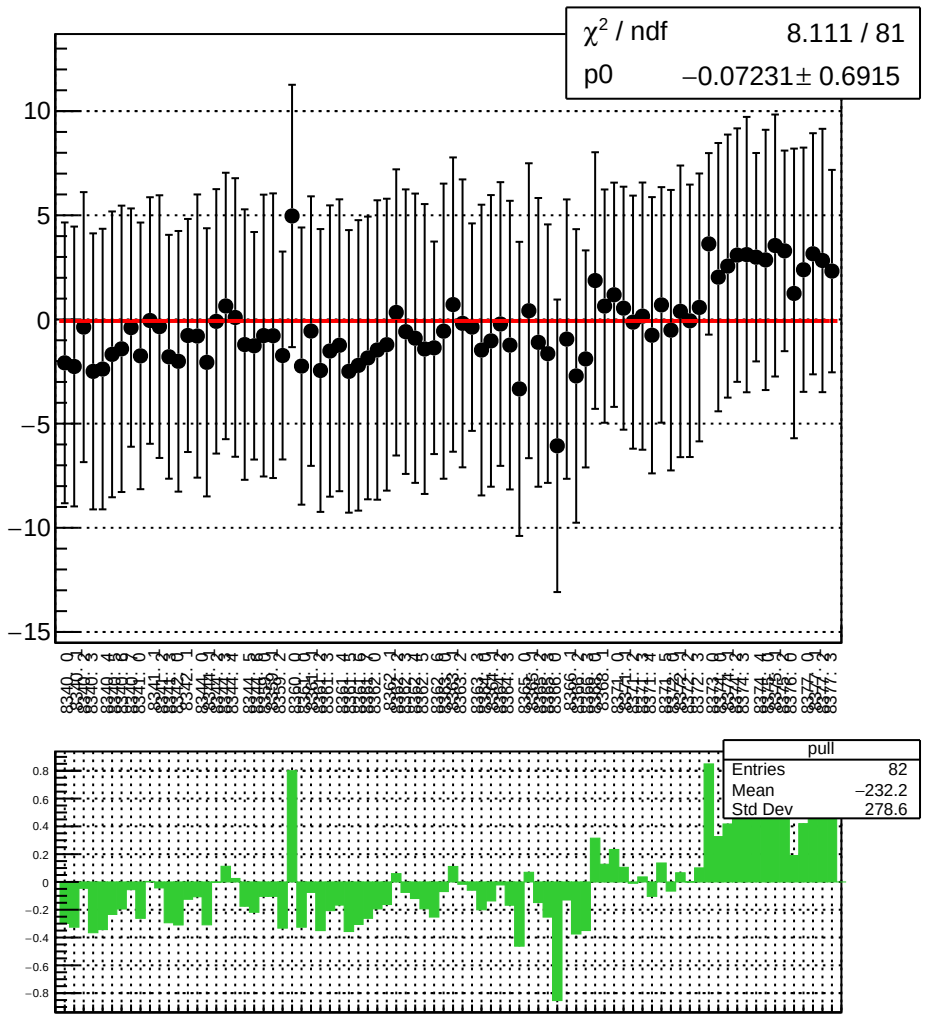

pull1D
Entries 82
Mean 0.005938
Std Dev 0.1772

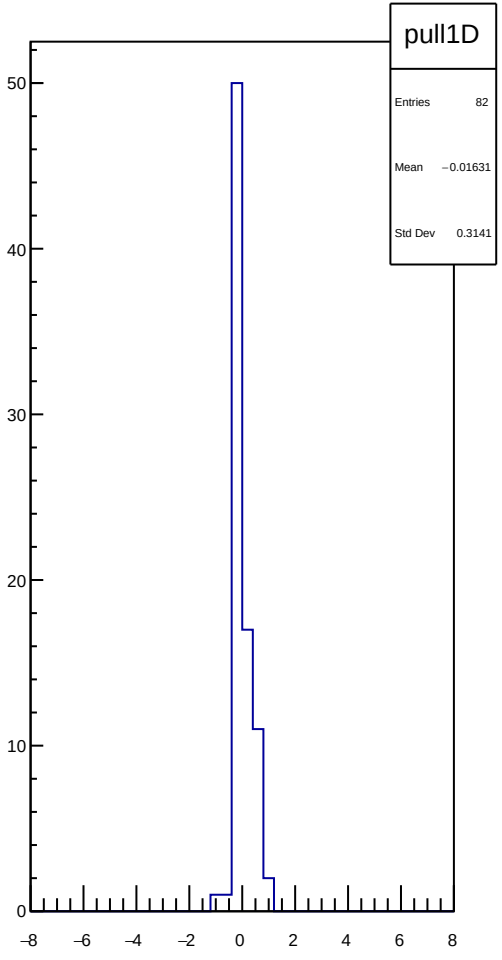

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.235 / 81
p0 30.24 ± 3.801
pull
Entries 82
Mean 779.8
Std Dev 730.9

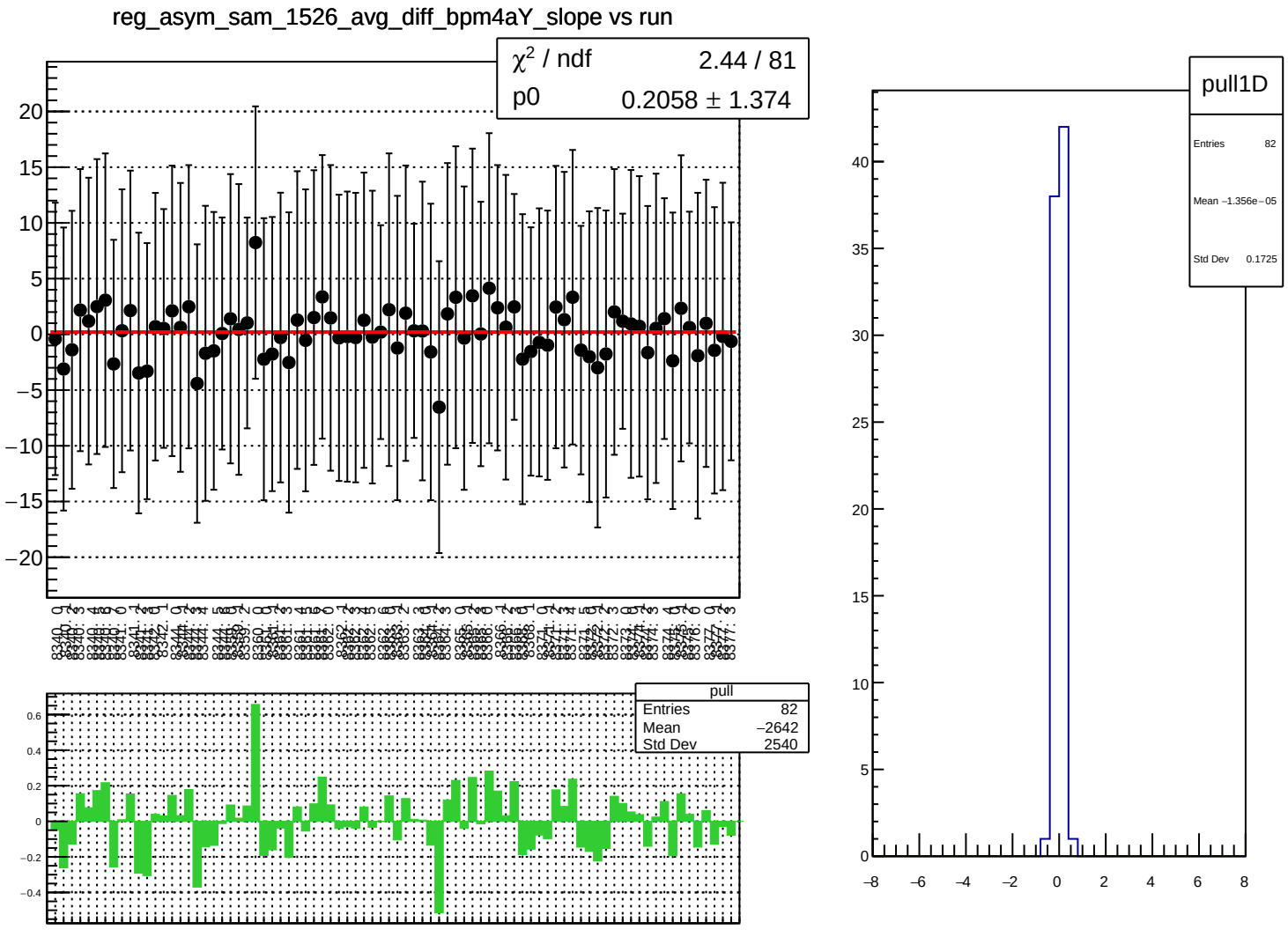

pull1D
Entries 82
Mean −0.0008029
Std Dev 0.1227

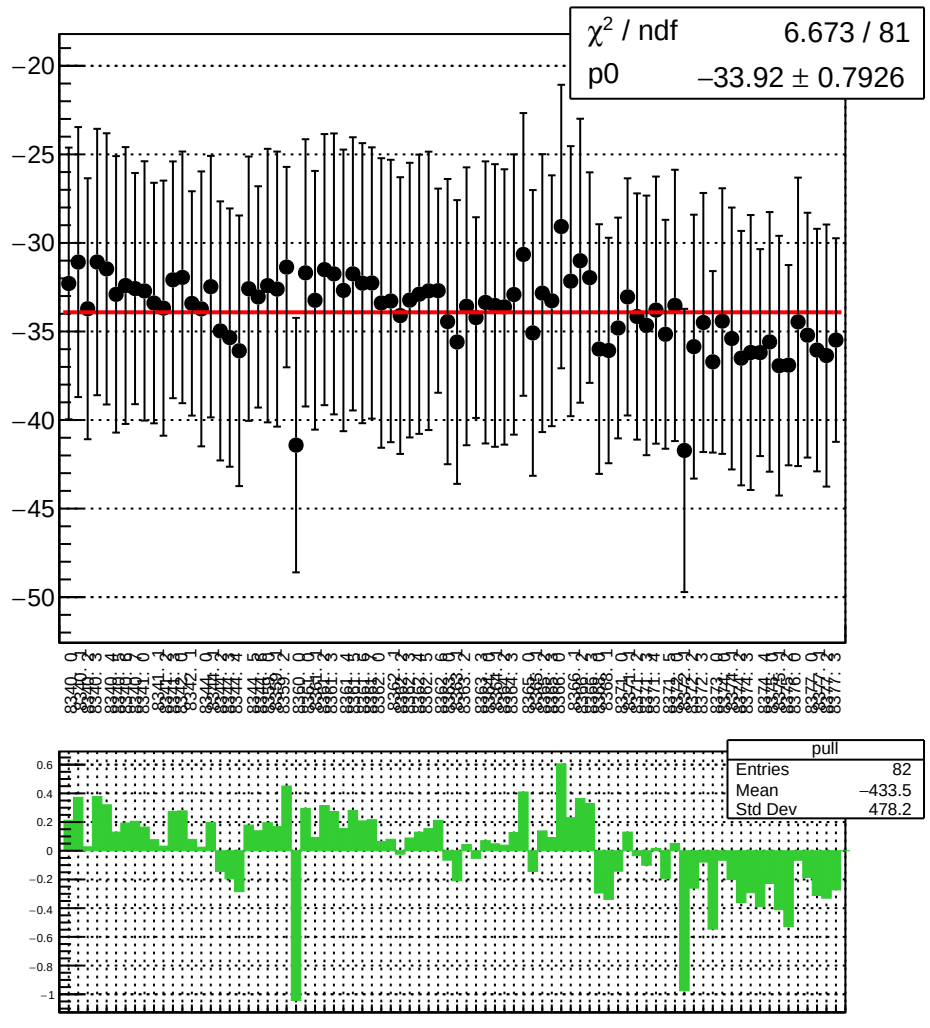

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ^2 / ndf 1.327 / 81
p0 1.72 ± 0.2278
pull
Entries 82
Mean 392.6
Std Dev 343.2

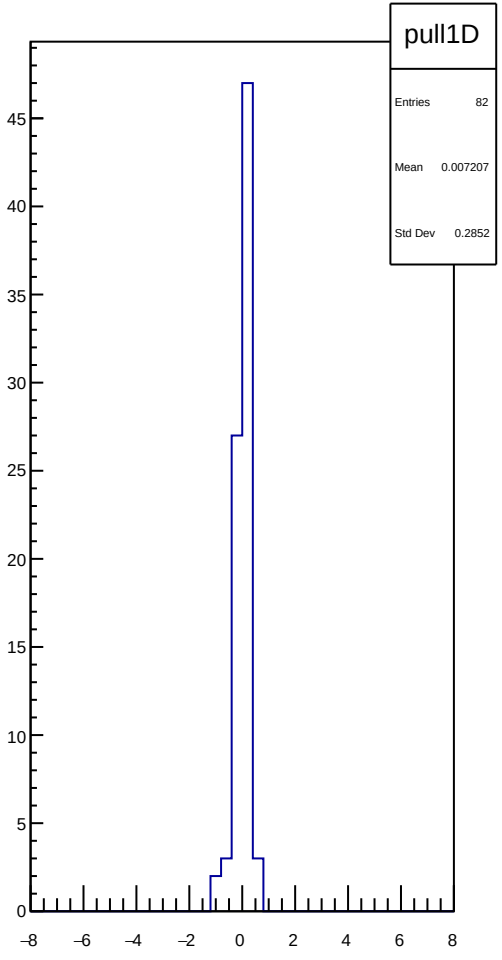

pull1D
Entries 82
Mean 0.003306
Std Dev 0.1271

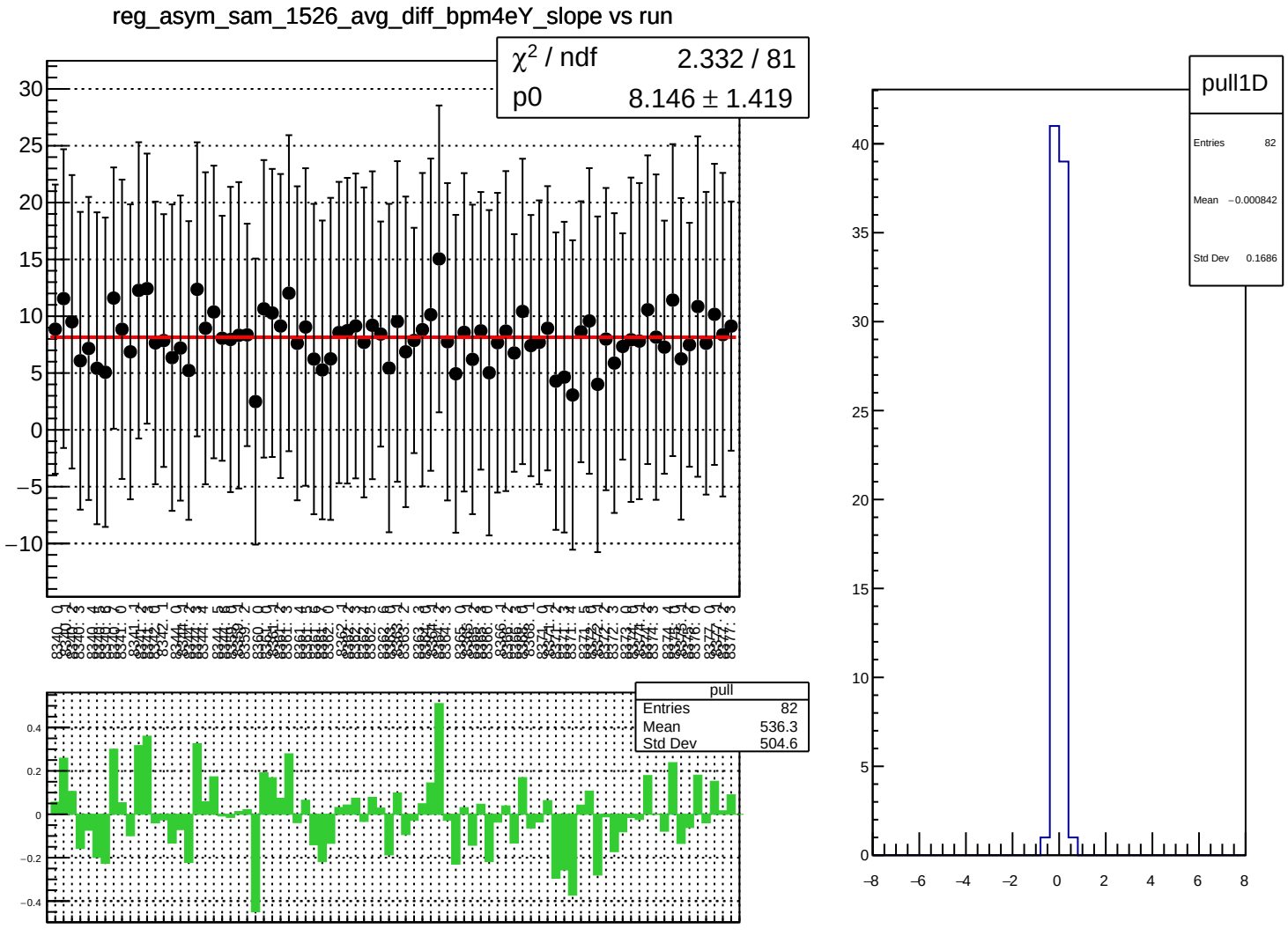

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 8.111 / 81
p0 −0.07231 ± 0.6915
pull
Entries 82
Mean −232.2
Std Dev 278.6

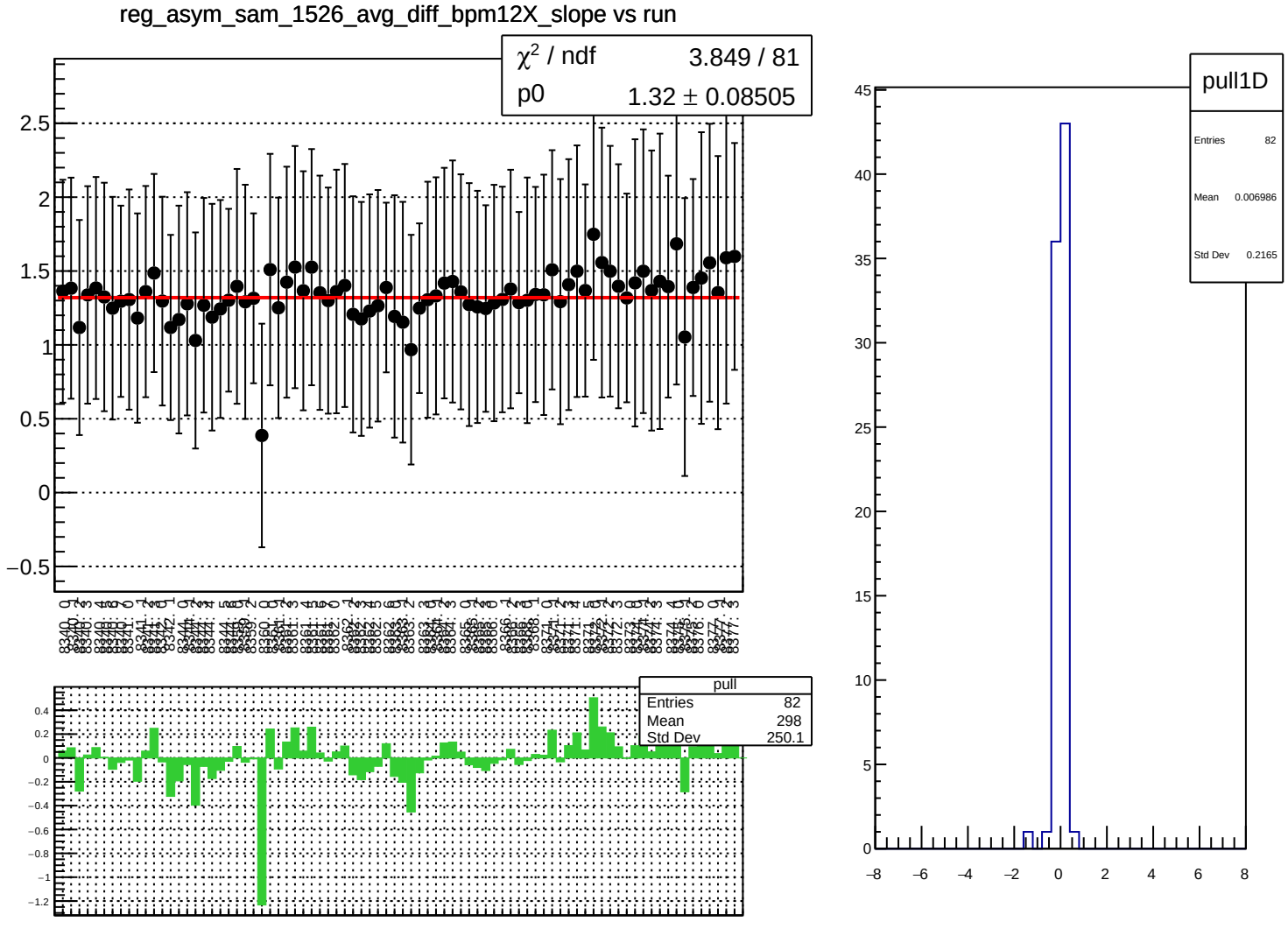

pull1D
Entries 82
Mean −0.01631
Std Dev 0.3141

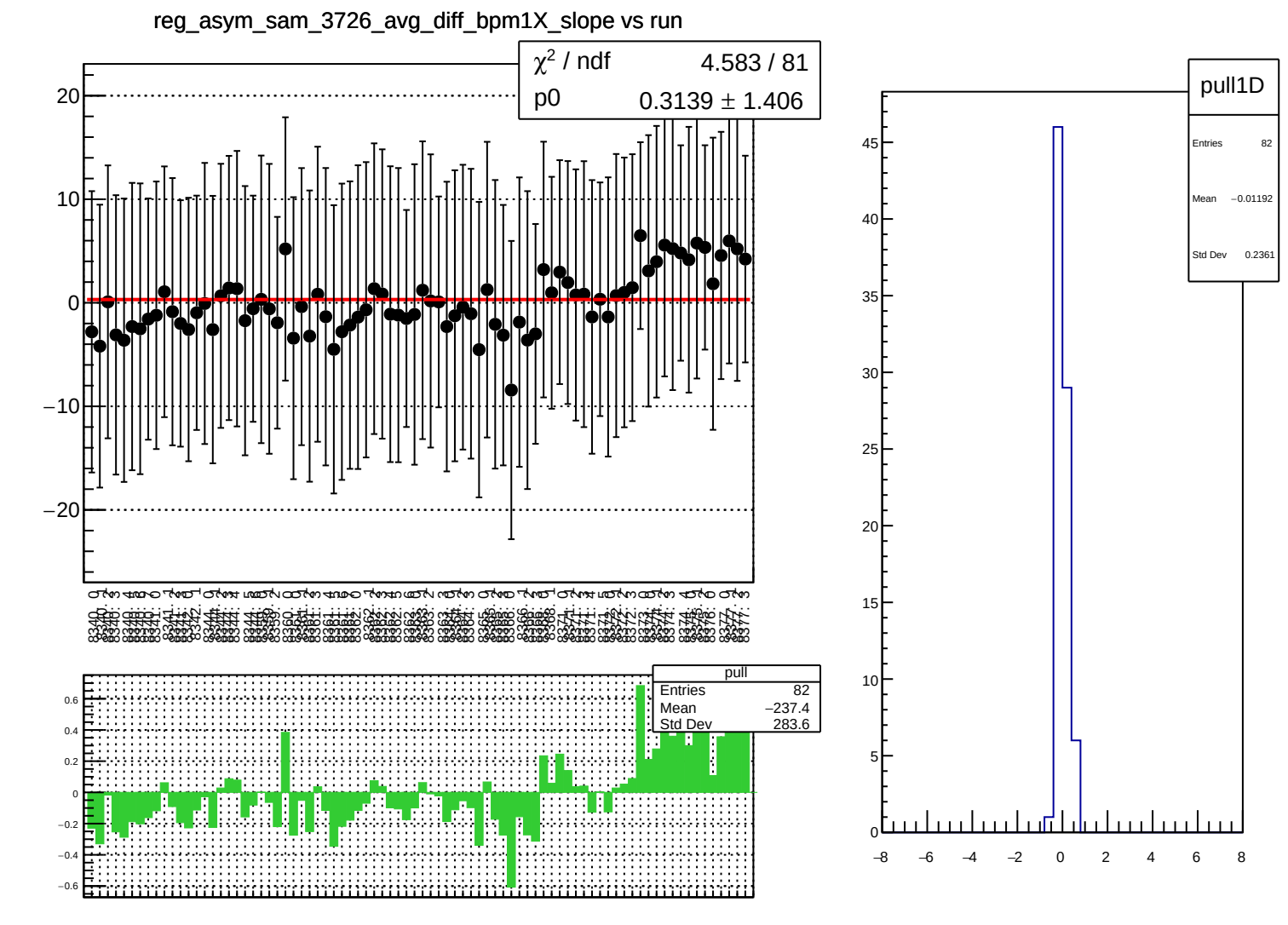

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.44 / 81
p0 0.2058 ± 1.374
pull
Entries 82
Mean −2642
Std Dev 2540
pull1D
Entries 82
Mean −1.356e−05
Std Dev 0.1725

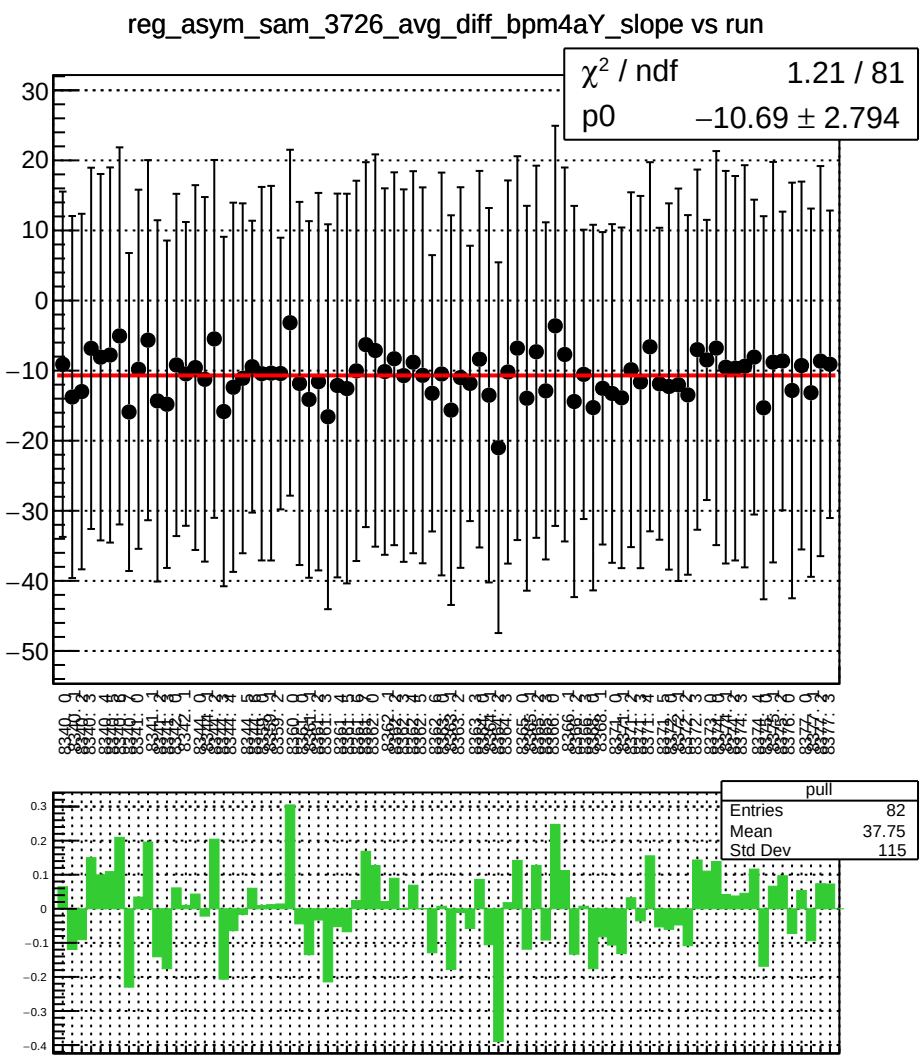

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.673 / 81
p0 −33.92 ± 0.7926
pull
Entries 82
Mean −433.5
Std Dev 478.2

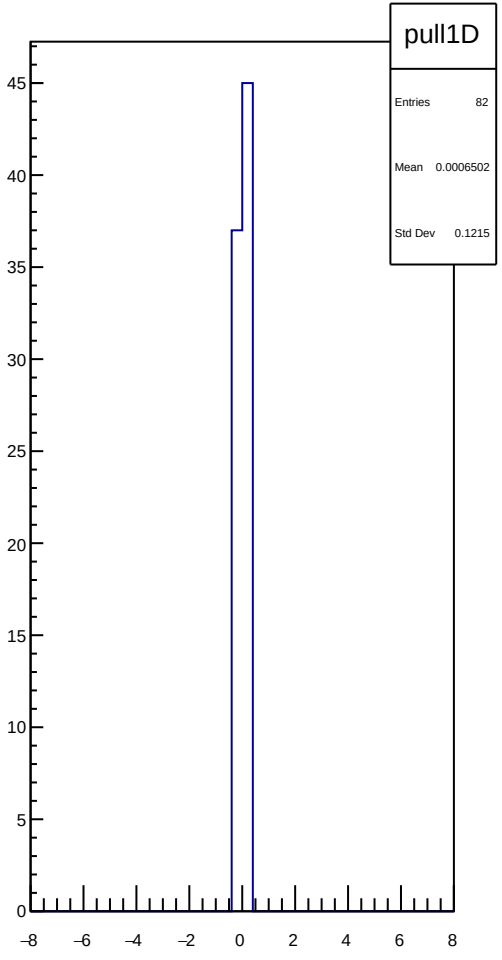

pull1D
Entries 82
Mean 0.007207
Std Dev 0.2852

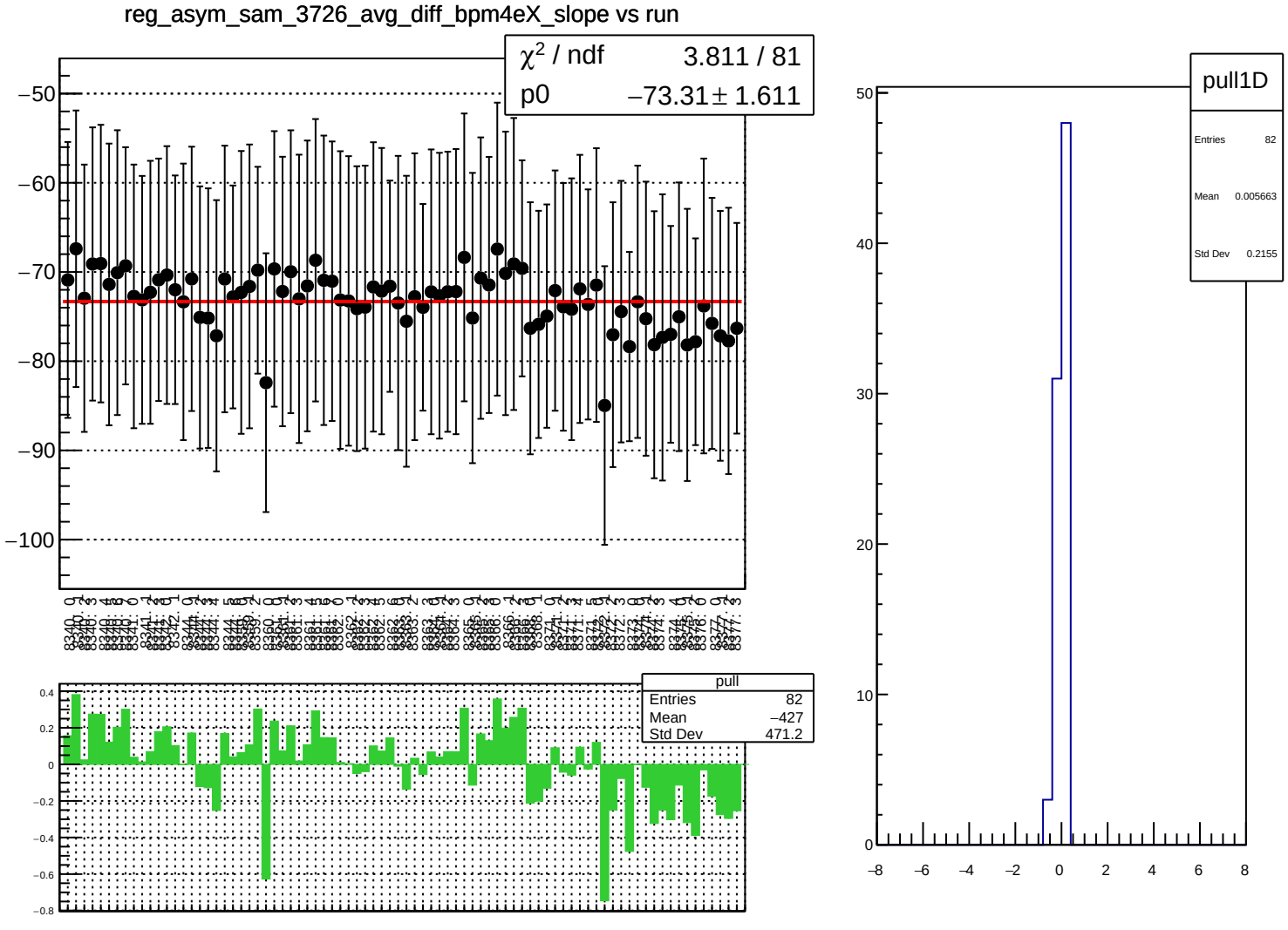

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.332 / 81
p0 8.146 ± 1.419
pull
Entries 82
Mean 536.3
Std Dev 504.6
pull1D
Entries 82
Mean −0.000842
Std Dev 0.1686

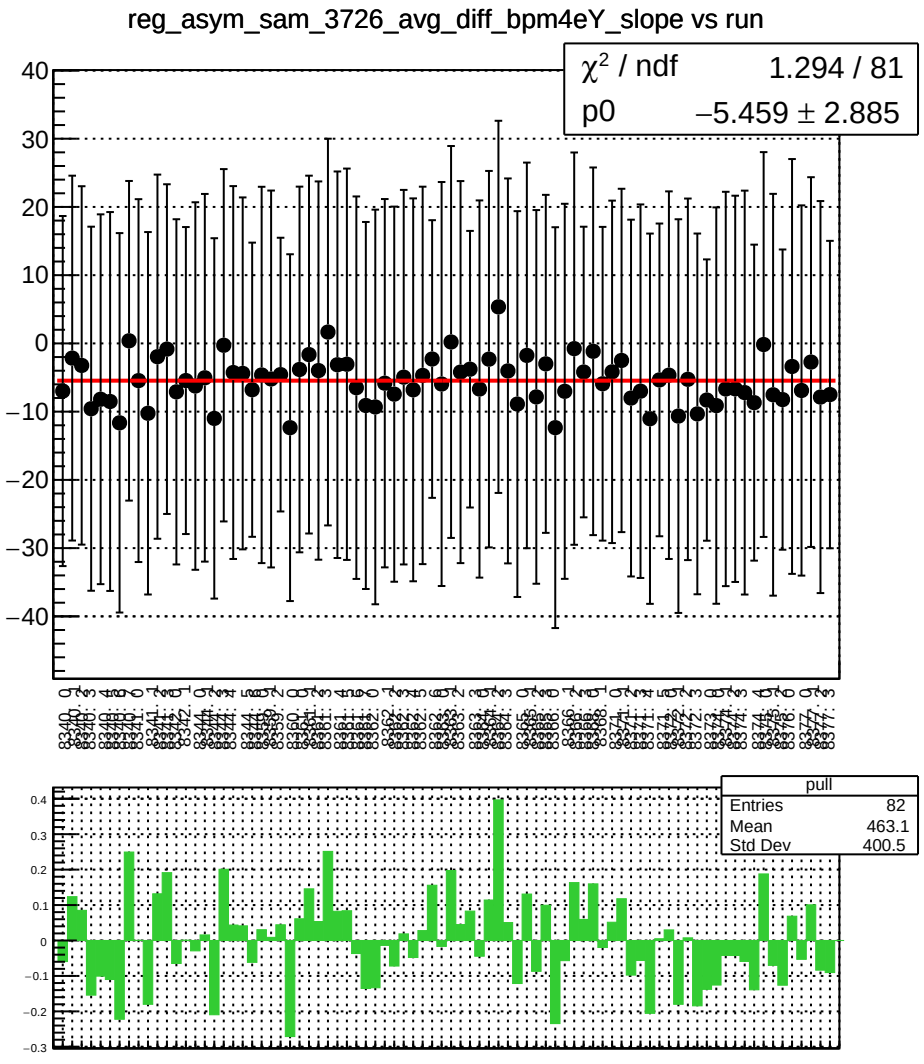

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 3.849 / 81
p0 1.32 ± 0.08505
pull
Entries 82
Mean 298
Std Dev 250.1
pull1D
Entries 82
Mean 0.006986
Std Dev 0.2165

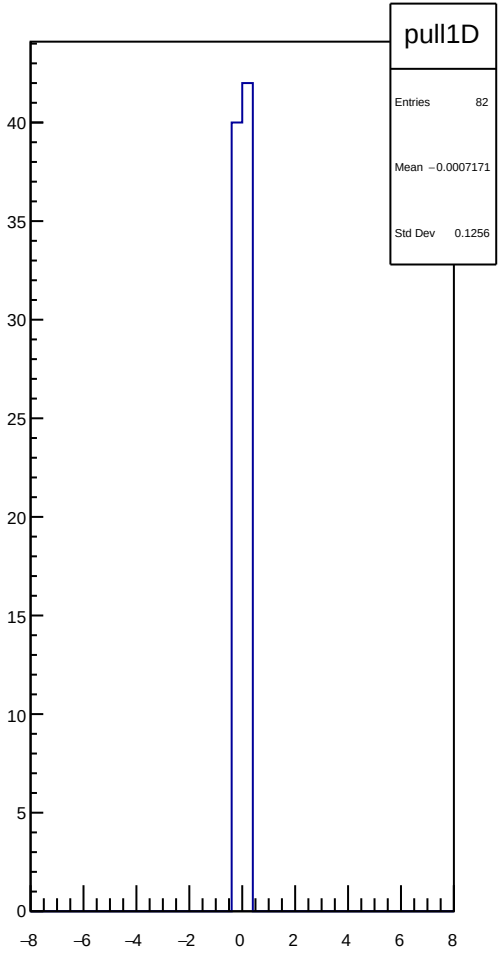

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 4.583 / 81
p0 0.3139 ± 1.406
pull
Entries 82
Mean −237.4
Std Dev 283.6
pull1D
Entries 82
Mean −0.01192
Std Dev 0.2361

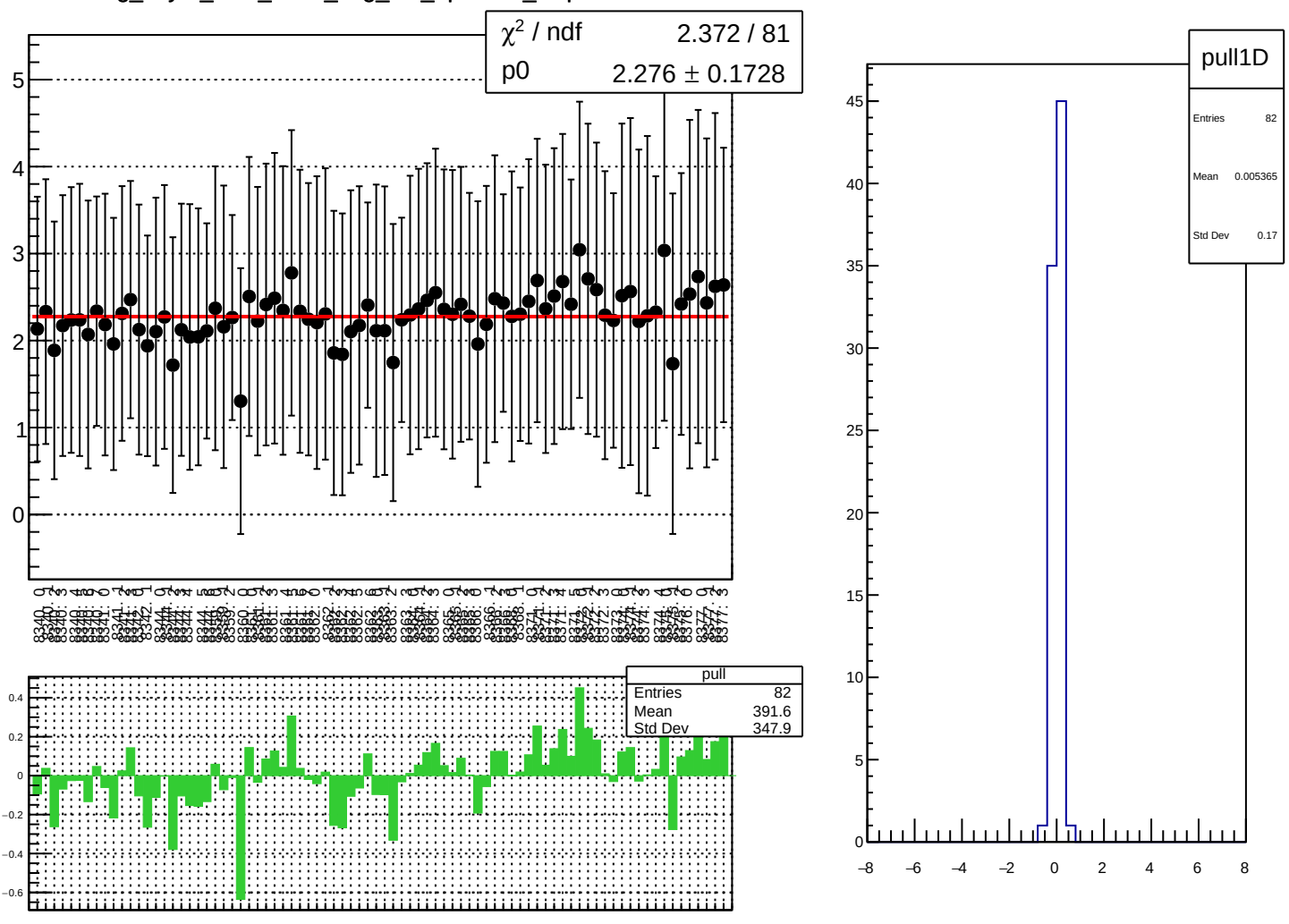

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.21 / 81
p0 −10.69 ± 2.794
pull
Entries 82
Mean 37.75
Std Dev 115

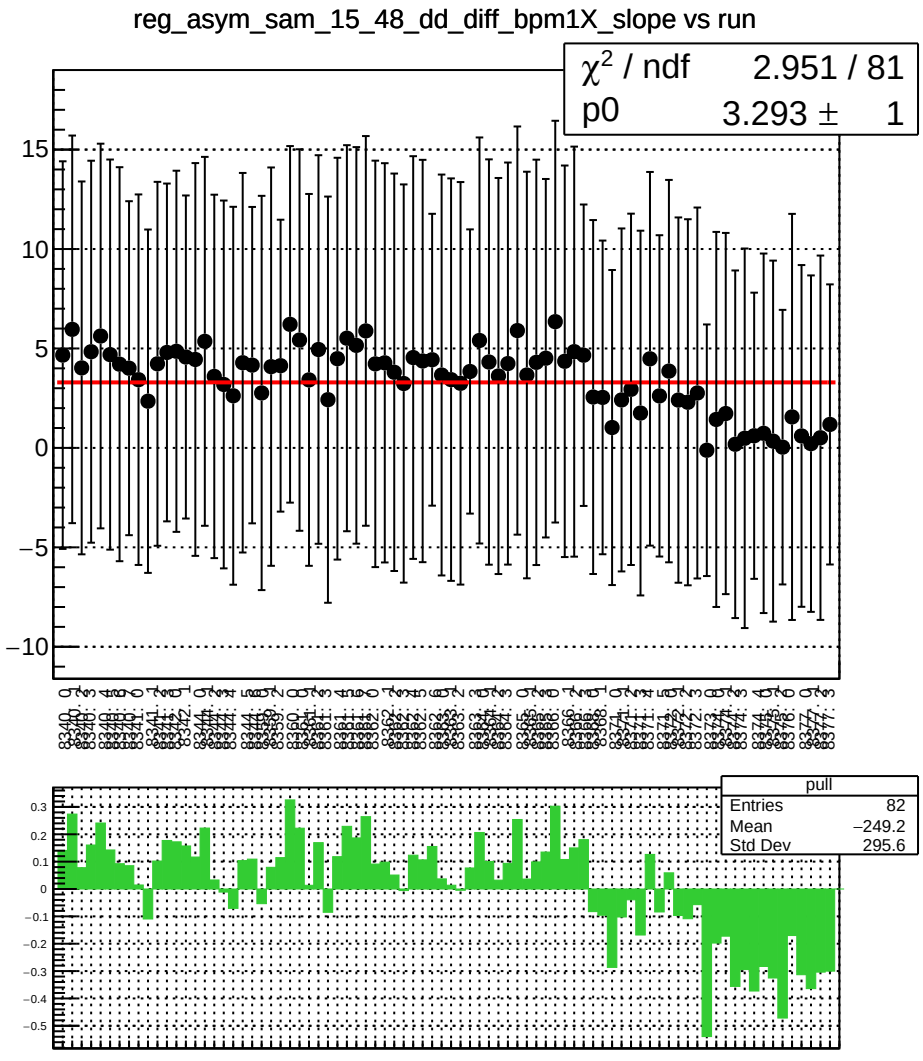

pull1D
Entries 82
Mean 0.0006502
Std Dev 0.1215

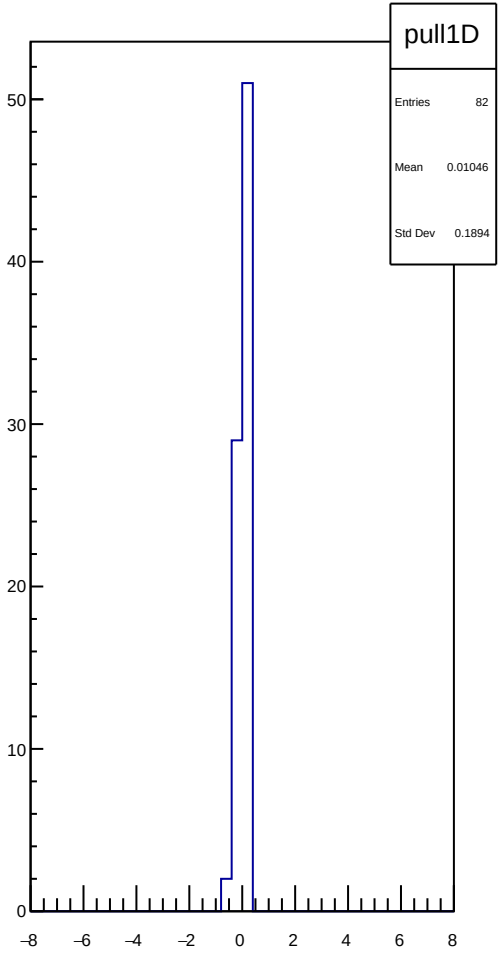

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.811 / 81
p0 −73.31 ± 1.611
pull
Entries 82
Mean −427
Std Dev 471.2
pull1D
Entries 82
Mean 0.005663
Std Dev 0.2155

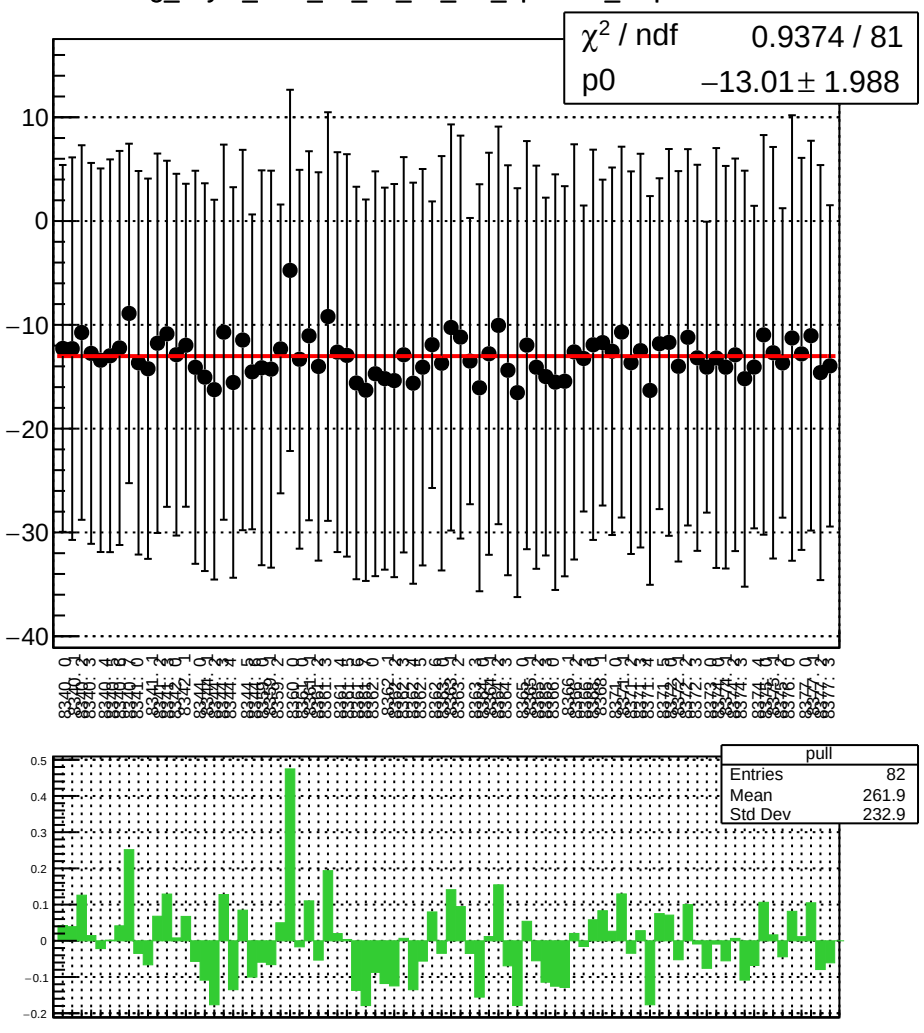

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.294 / 81
p0 −5.459 ± 2.885
pull
Entries 82
Mean 463.1
Std Dev 400.5

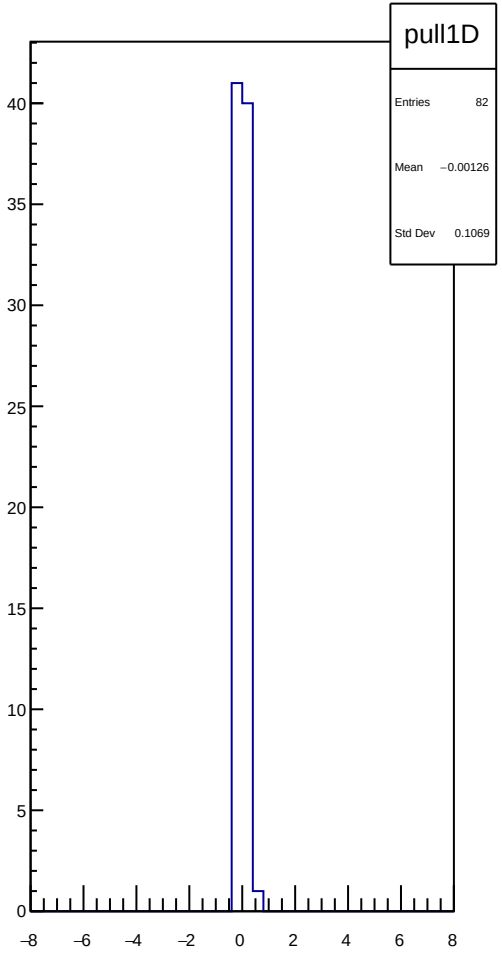

pull1D
Entries 82
Mean −0.0007171
Std Dev 0.1256

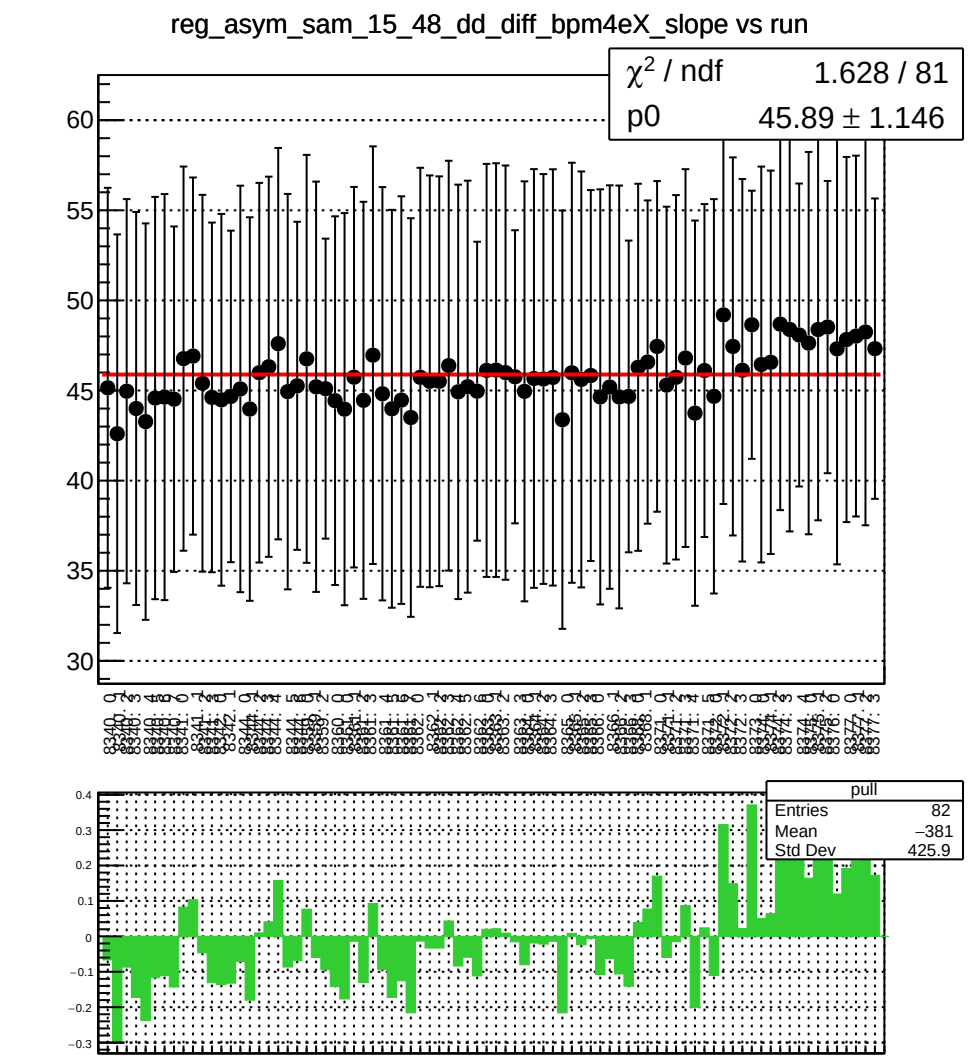

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.372 / 81
p0 2.276 ± 0.1728
pull
Entries 82
Mean 391.6
Std Dev 347.9
pull1D
Entries 82
Mean 0.005365
Std Dev 0.17

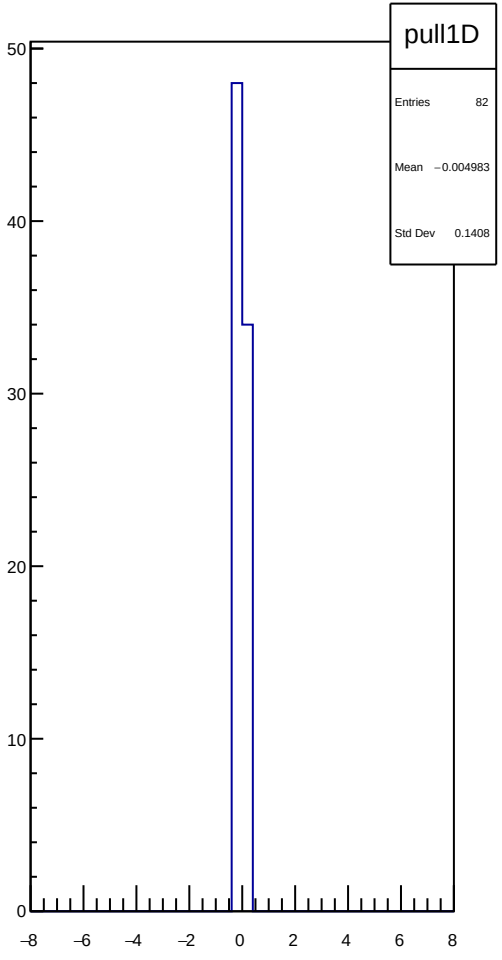

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.951 / 81
p0 3.293 ± 1
pull
Entries 82
Mean −249.2
Std Dev 295.6

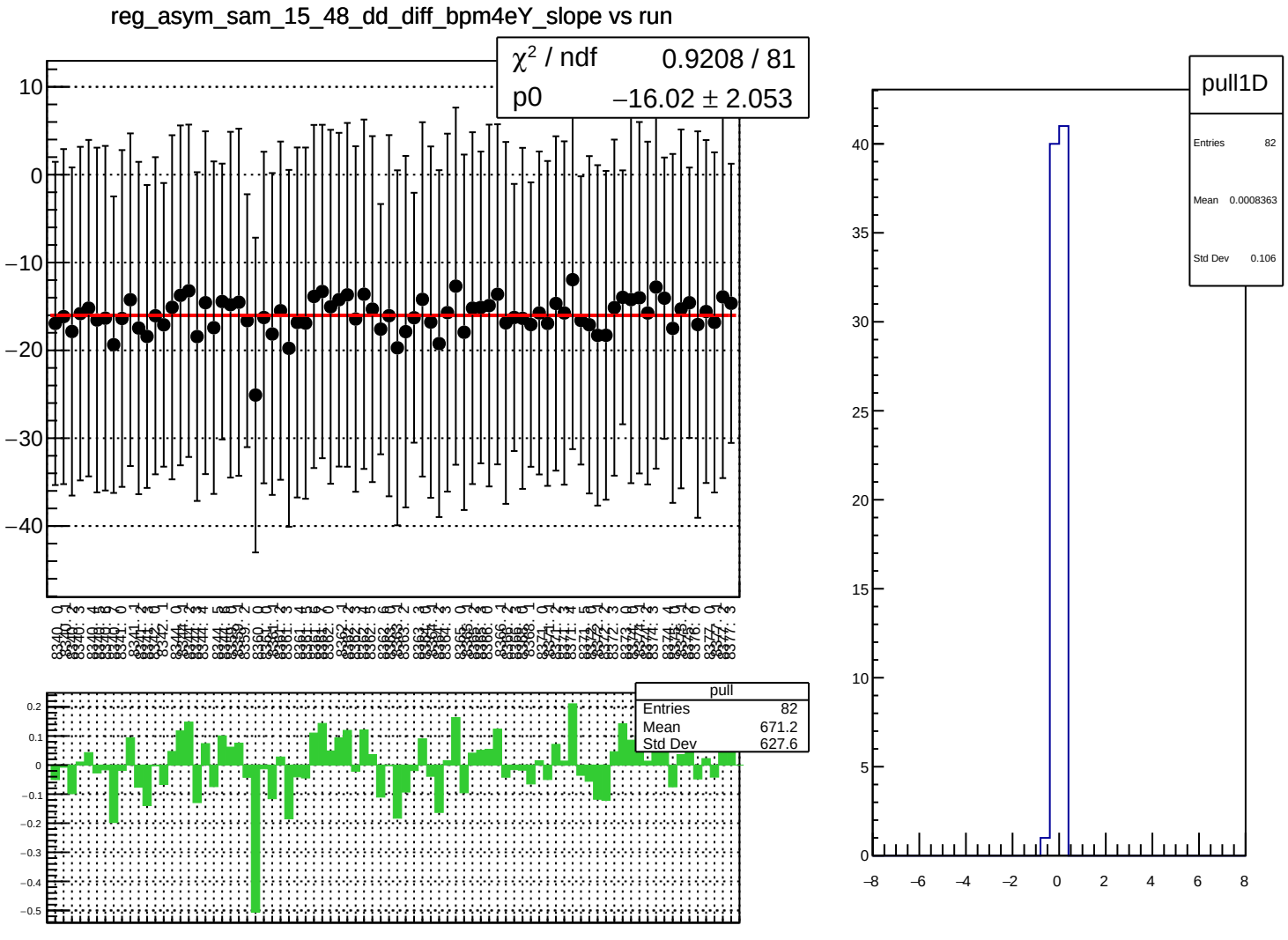

pull1D
Entries 82
Mean 0.01046
Std Dev 0.1894

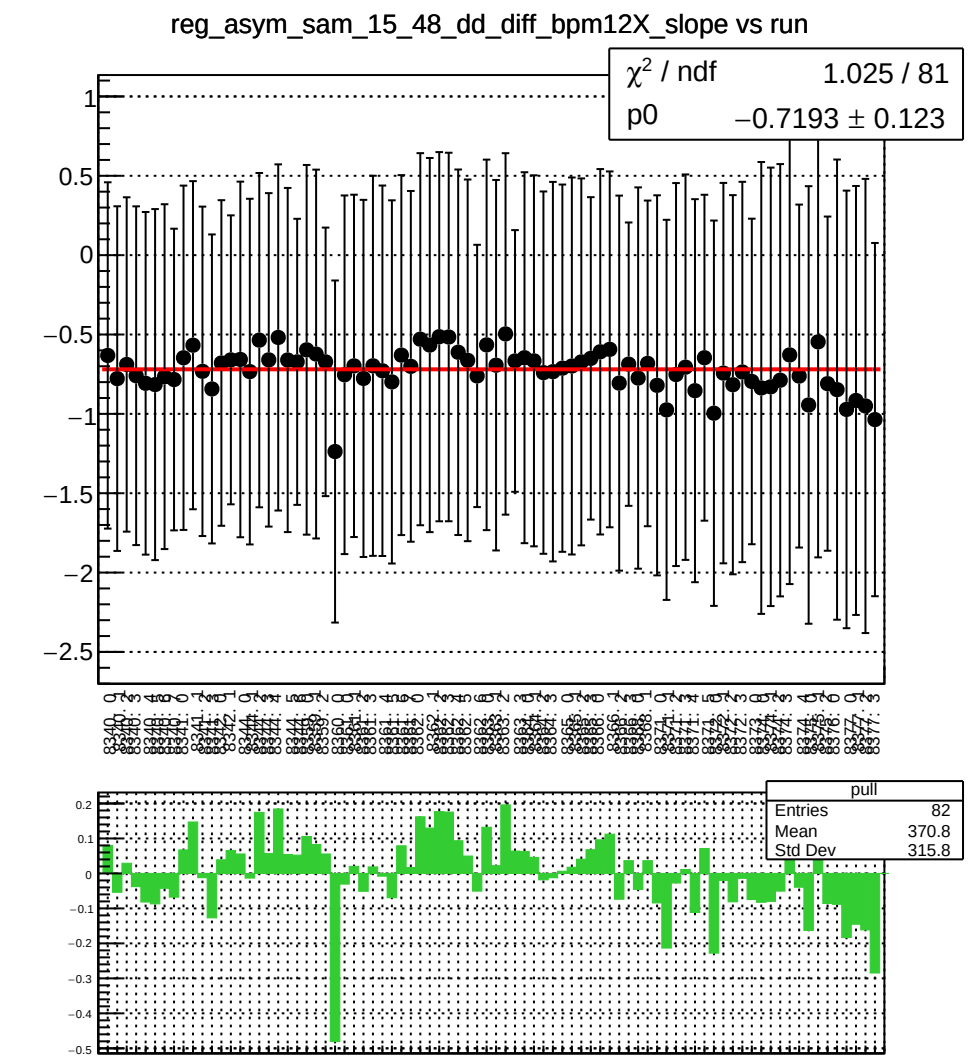

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.9374 / 81
p0 −13.01± 1.988
pull
Entries 82
Mean 261.9
Std Dev 232.9

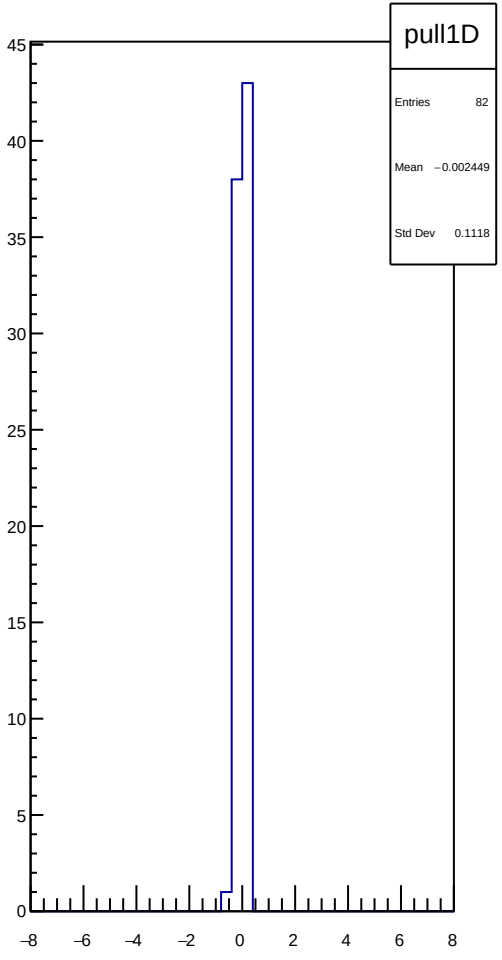

pull1D
Entries 82
Mean −0.00126
Std Dev 0.1069

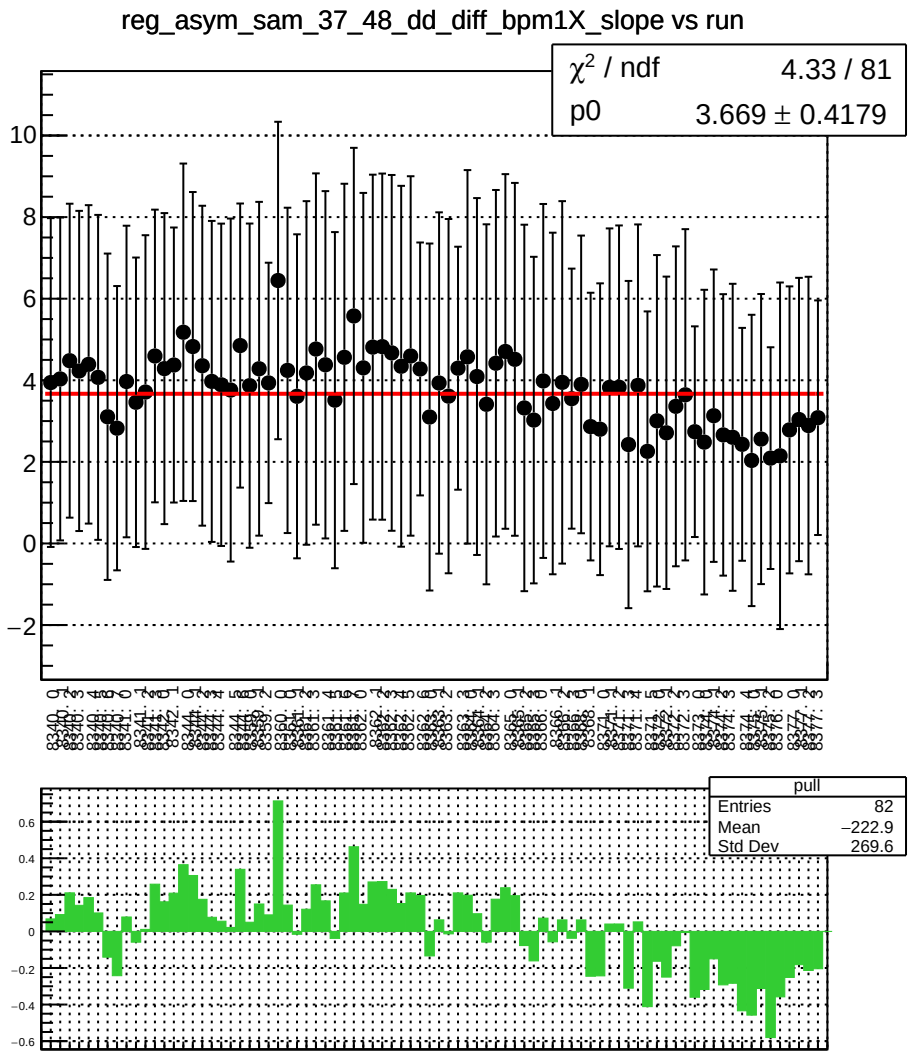

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.628 / 81
p0 45.89 ± 1.146
pull
Entries 82
Mean −381
Std Dev 425.9

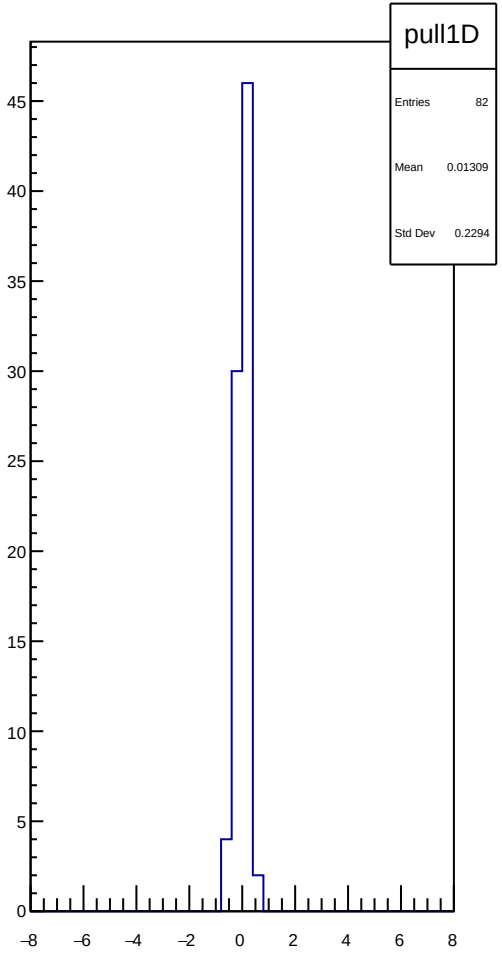

pull1D
Entries 82
Mean −0.004983
Std Dev 0.1408

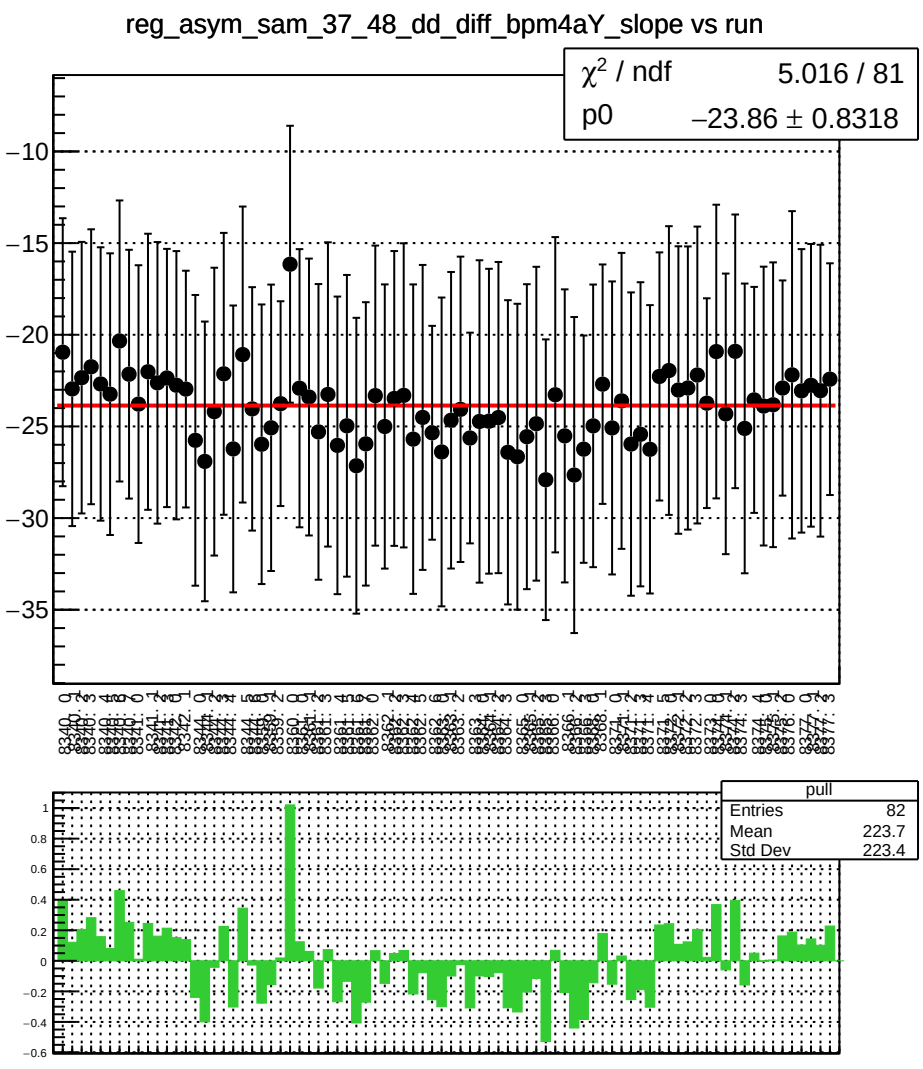

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9208 / 81
p0 −16.02 ± 2.053
pull
Entries 82
Mean 671.2
Std Dev 627.6
pull1D
Entries 82
Mean 0.0008363
Std Dev 0.106

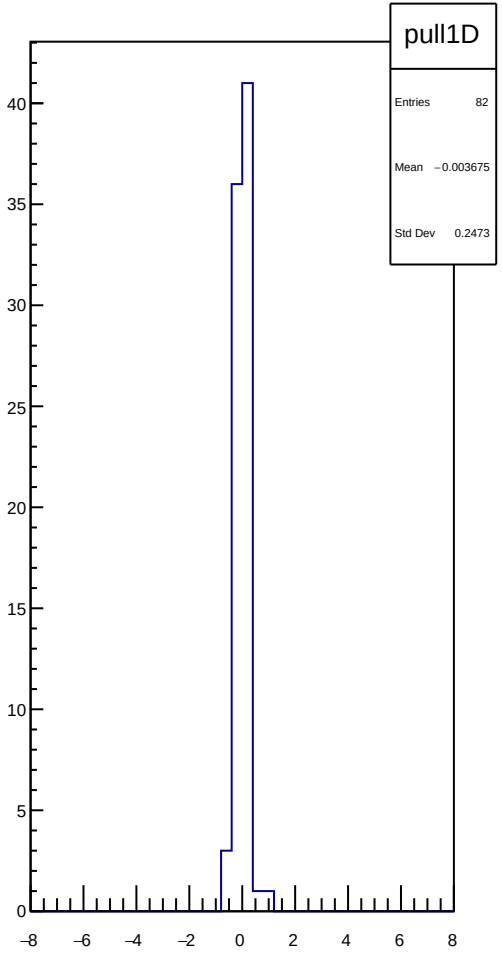

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.025 / 81
p0 −0.7193 ± 0.123
pull
Entries 82
Mean 370.8
Std Dev 315.8

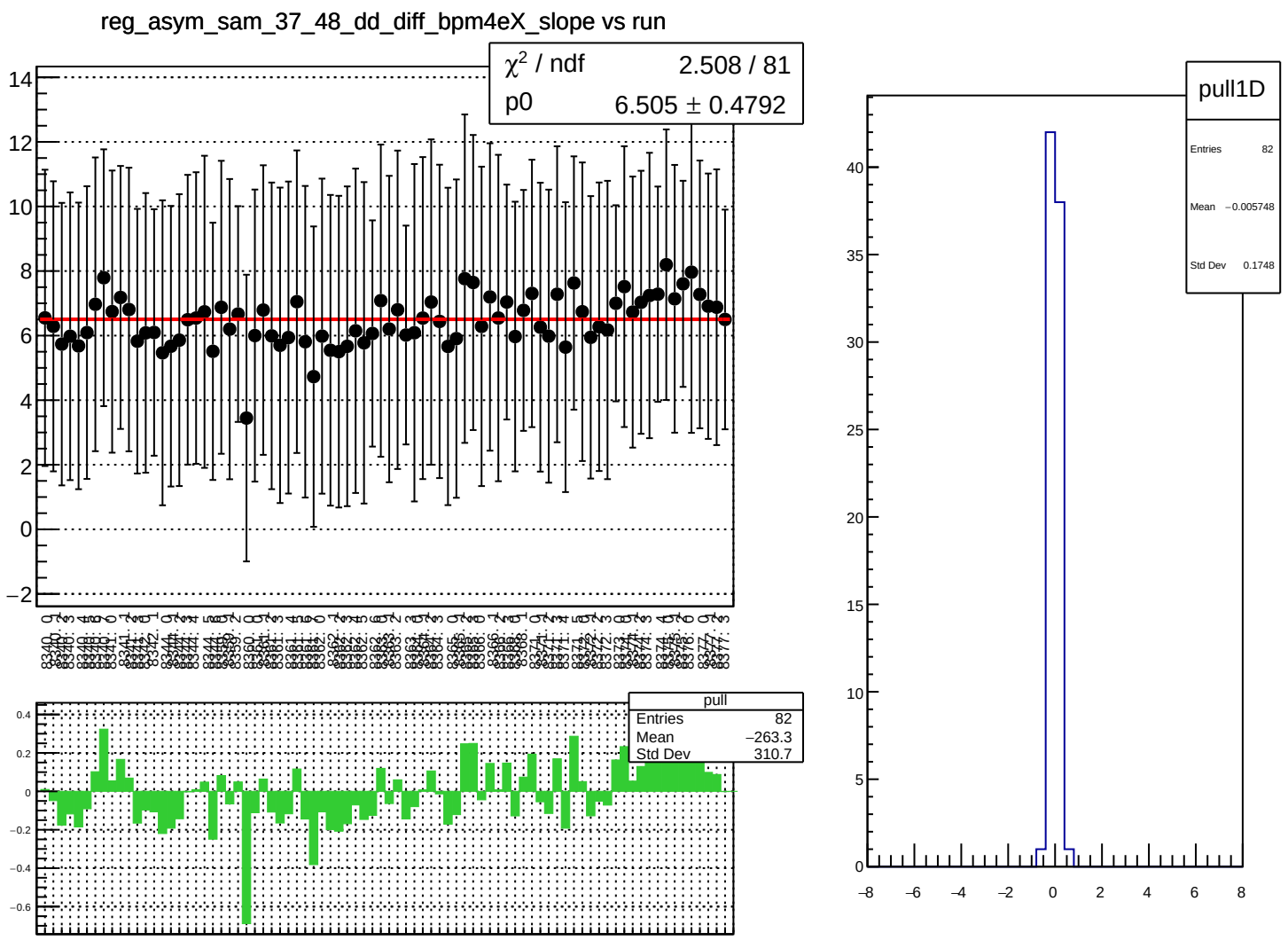

pull1D
Entries 82
Mean −0.002449
Std Dev 0.1118

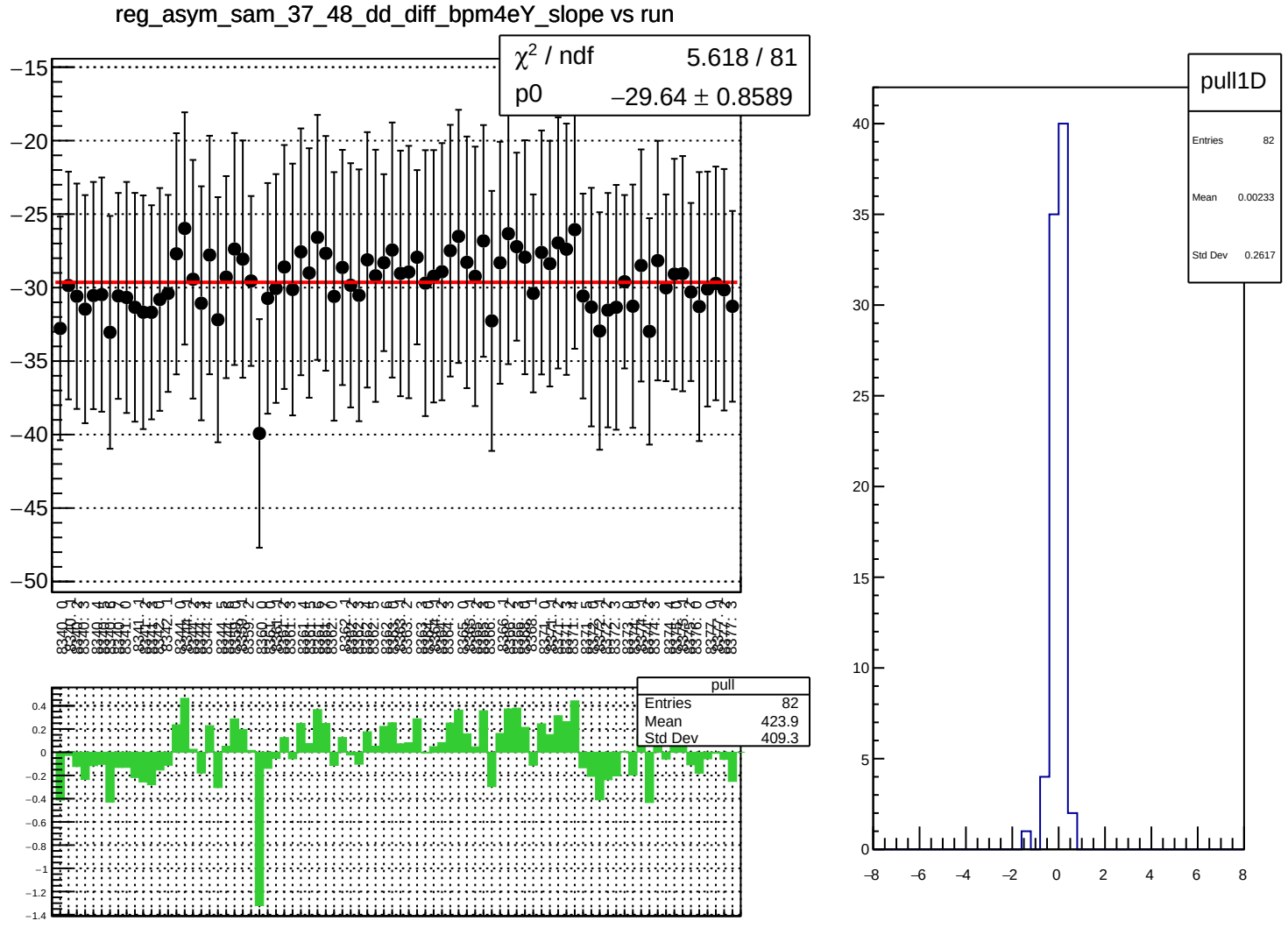

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.33 / 81
p0 3.669 ± 0.4179
pull
Entries 82
Mean −222.9
Std Dev 269.6

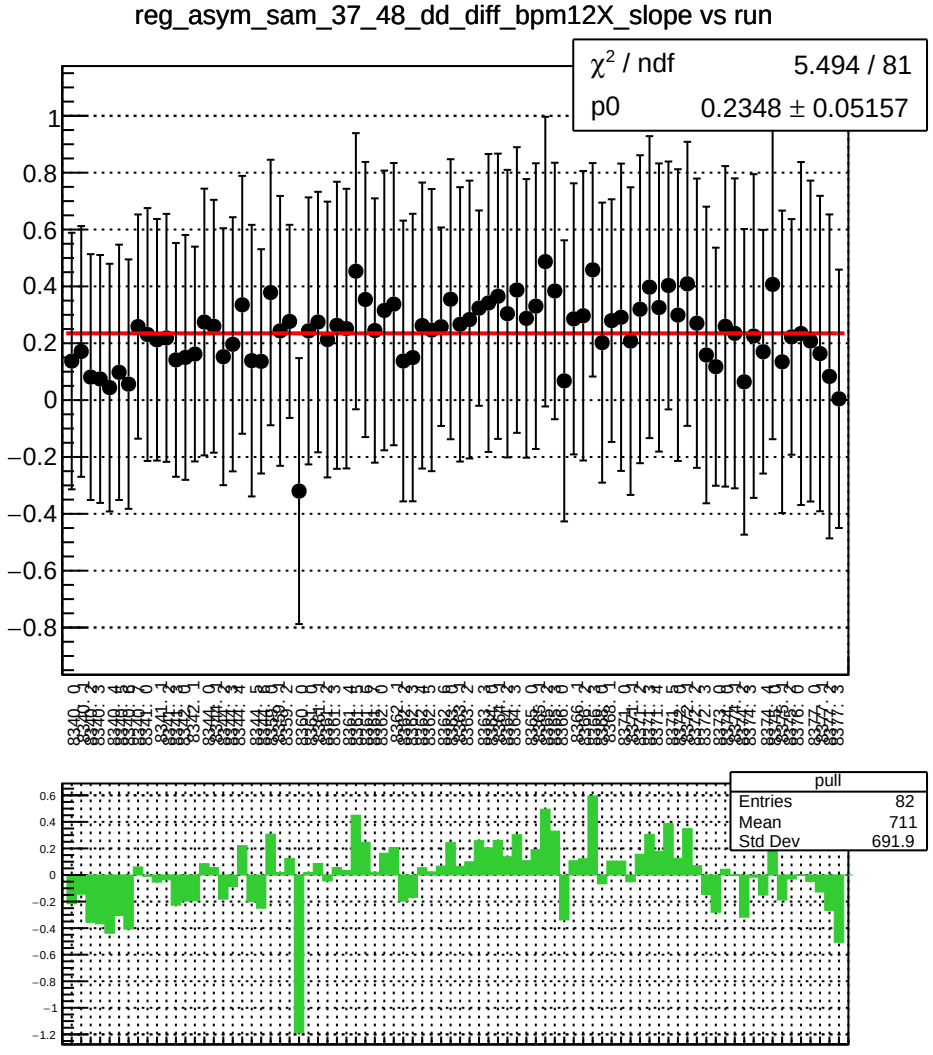

pull1D
Entries 82
Mean 0.01309
Std Dev 0.2294

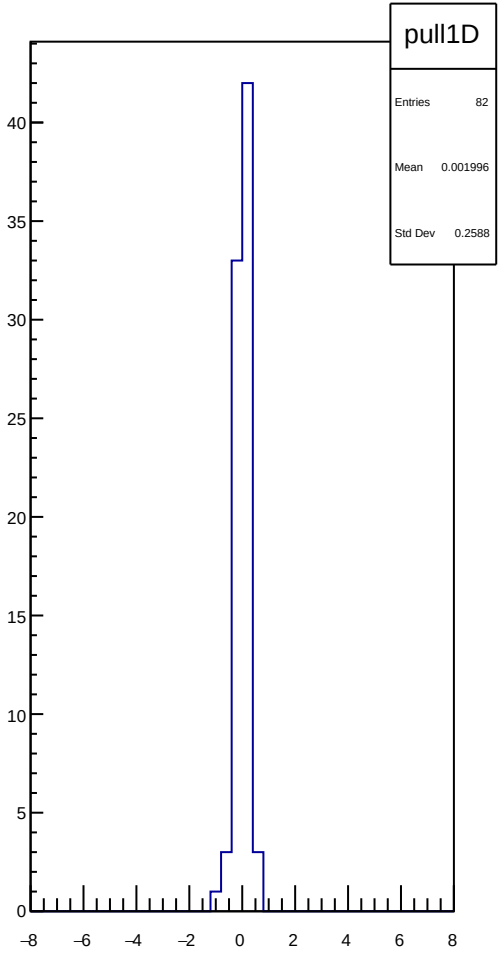

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.016 / 81
p0 −23.86 ± 0.8318
pull
Entries 82
Mean 223.7
Std Dev 223.4

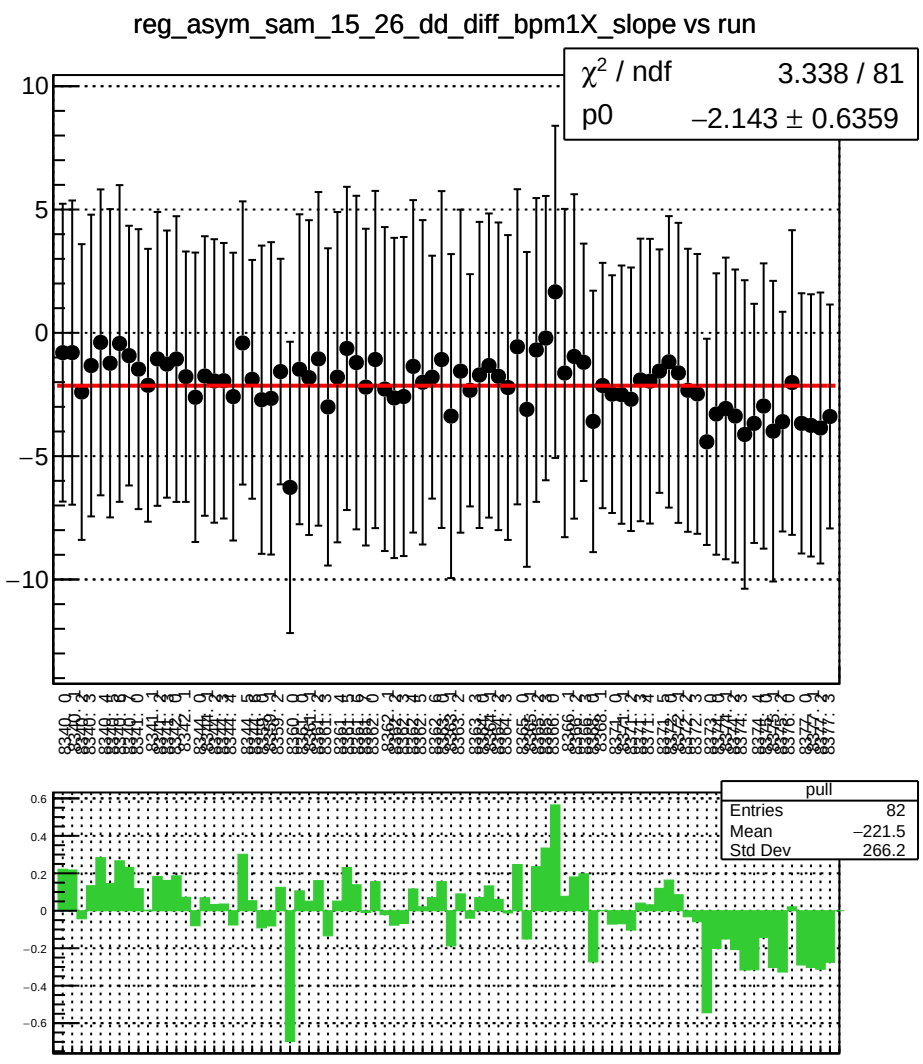

pull1D
Entries 82
Mean −0.003675
Std Dev 0.2473

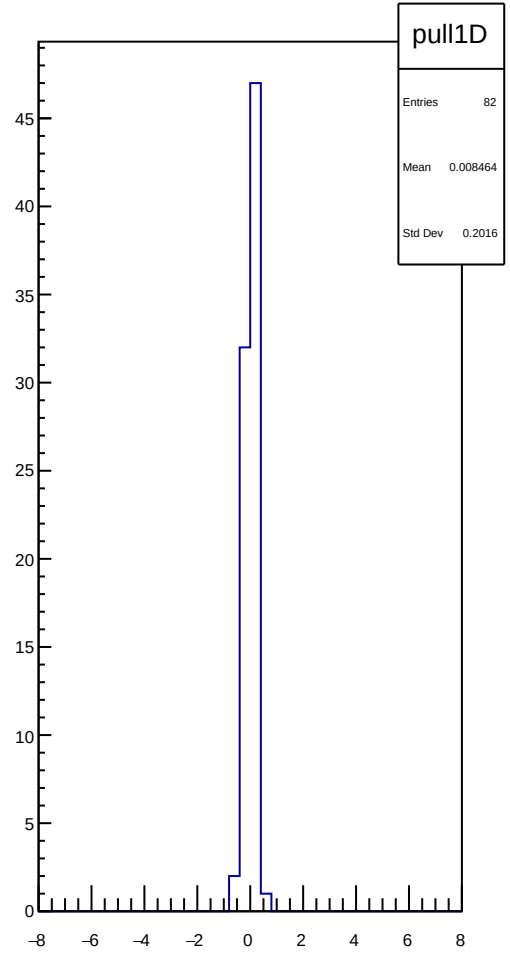

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.508 / 81
p0 6.505 ± 0.4792
pull
Entries 82
Mean −263.3
Std Dev 310.7
pull1D
Entries 82
Mean −0.005748
Std Dev 0.1748

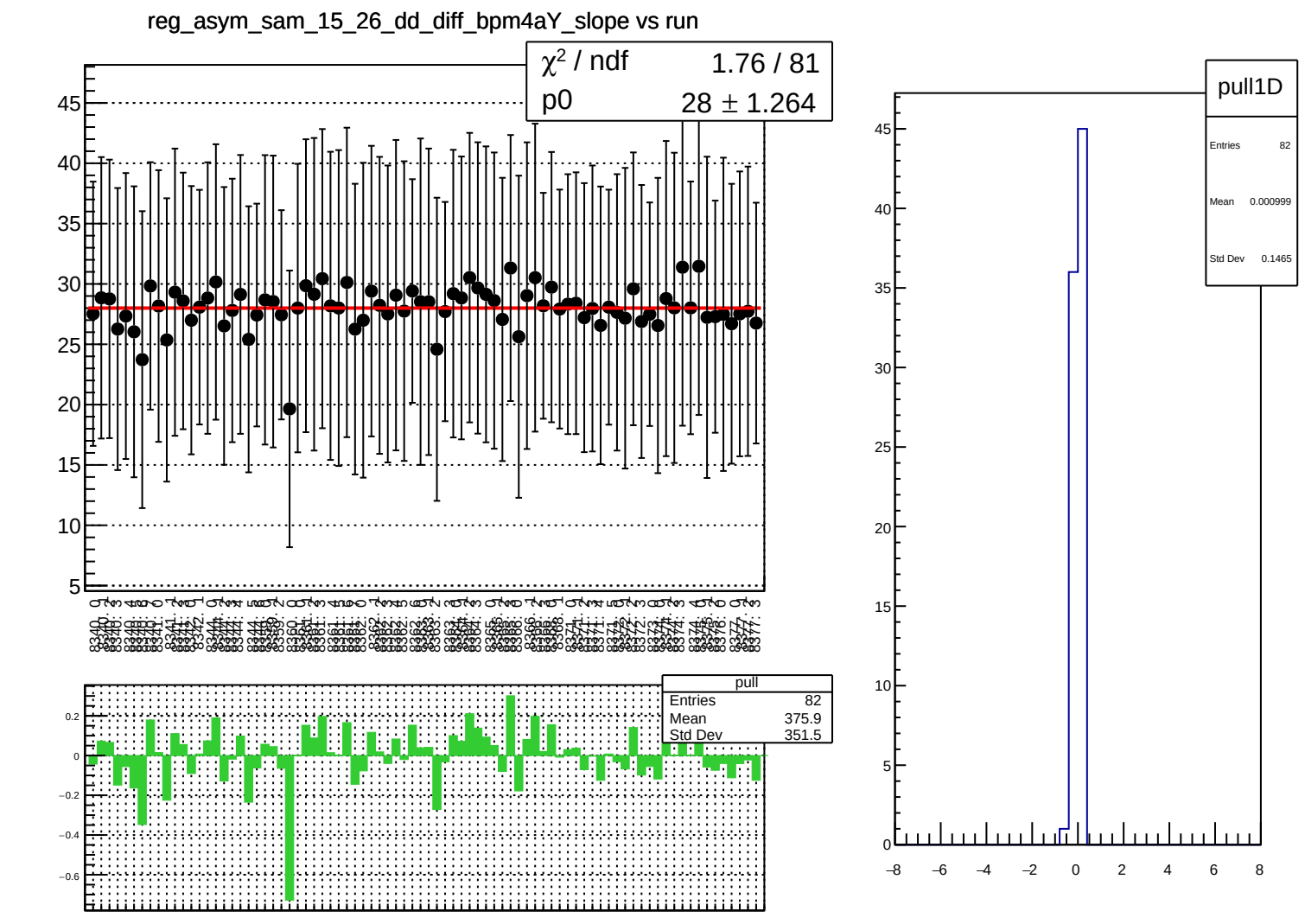

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.618 / 81
p0 −29.64 ± 0.8589
pull
Entries 82
Mean 423.9
Std Dev 409.3
pull1D
Entries 82
Mean 0.00233
Std Dev 0.2617

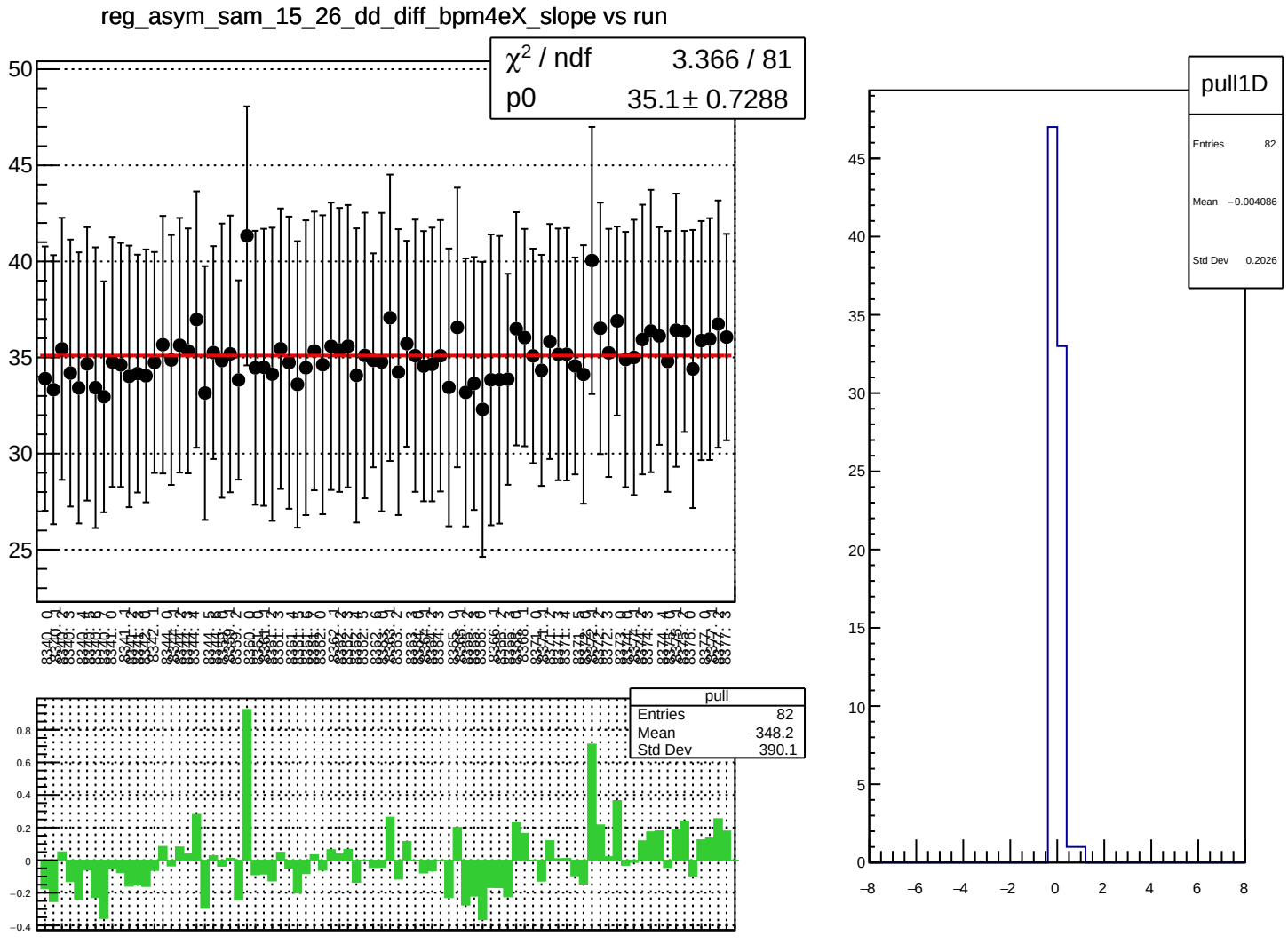

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 5.494 / 81
p0 0.2348 ± 0.05157
pull
Entries 82
Mean 711
Std Dev 691.9

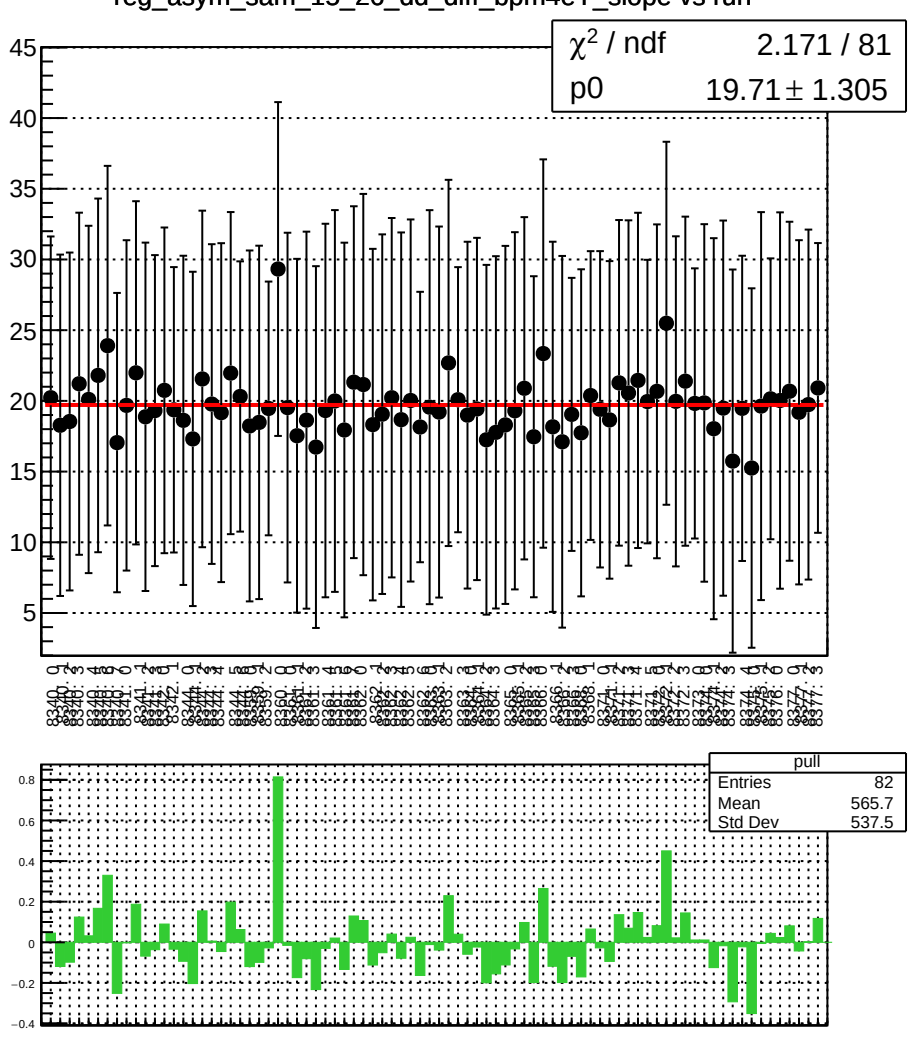

pull1D
Entries 82
Mean 0.001996
Std Dev 0.2588

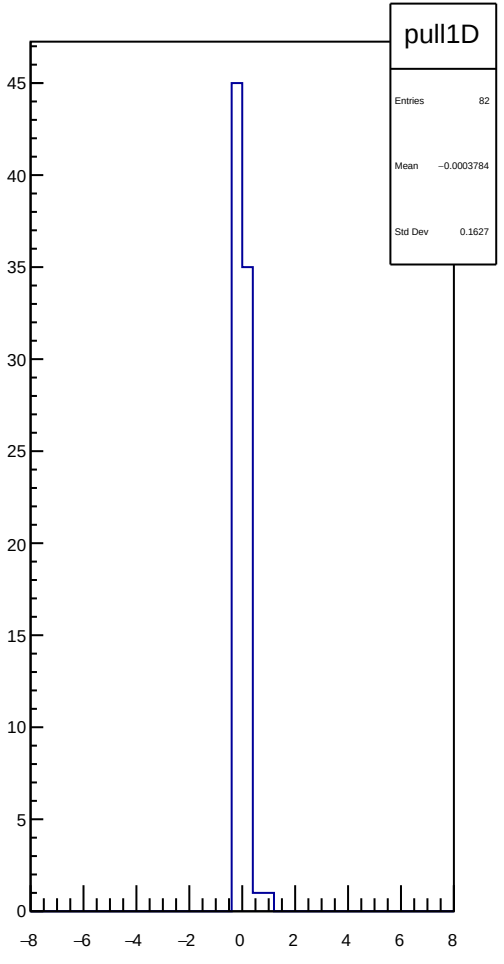

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 3.338 / 81
p0 −2.143 ± 0.6359
pull
Entries 82
Mean −221.5
Std Dev 266.2

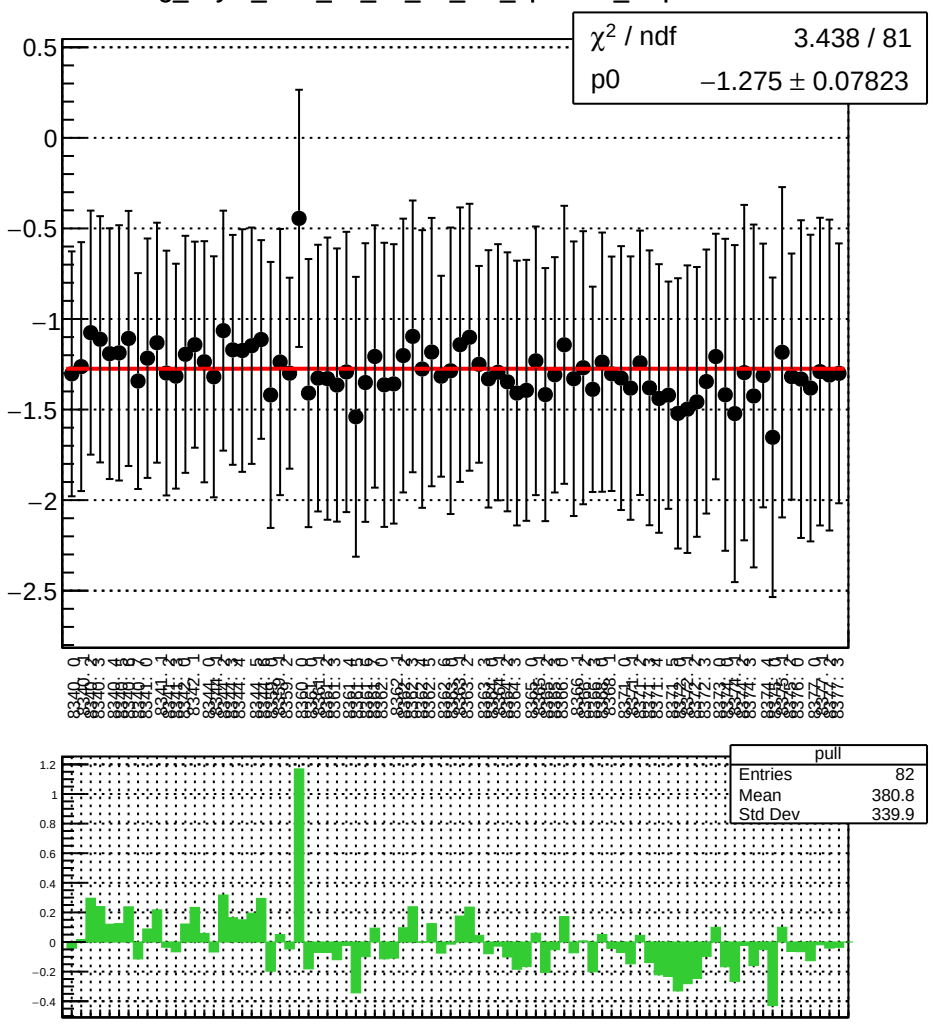

pull1D
Entries 82
Mean 0.008464
Std Dev 0.2016

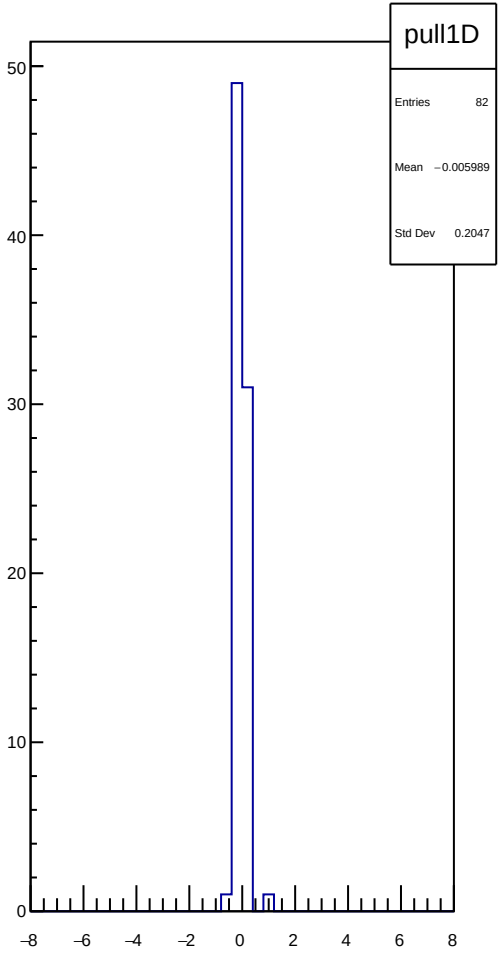

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.76 / 81
p0 28 ± 1.264
pull
Entries 82
Mean 375.9
Std Dev 351.5
pull1D
Entries 82
Mean 0.000999
Std Dev 0.1465

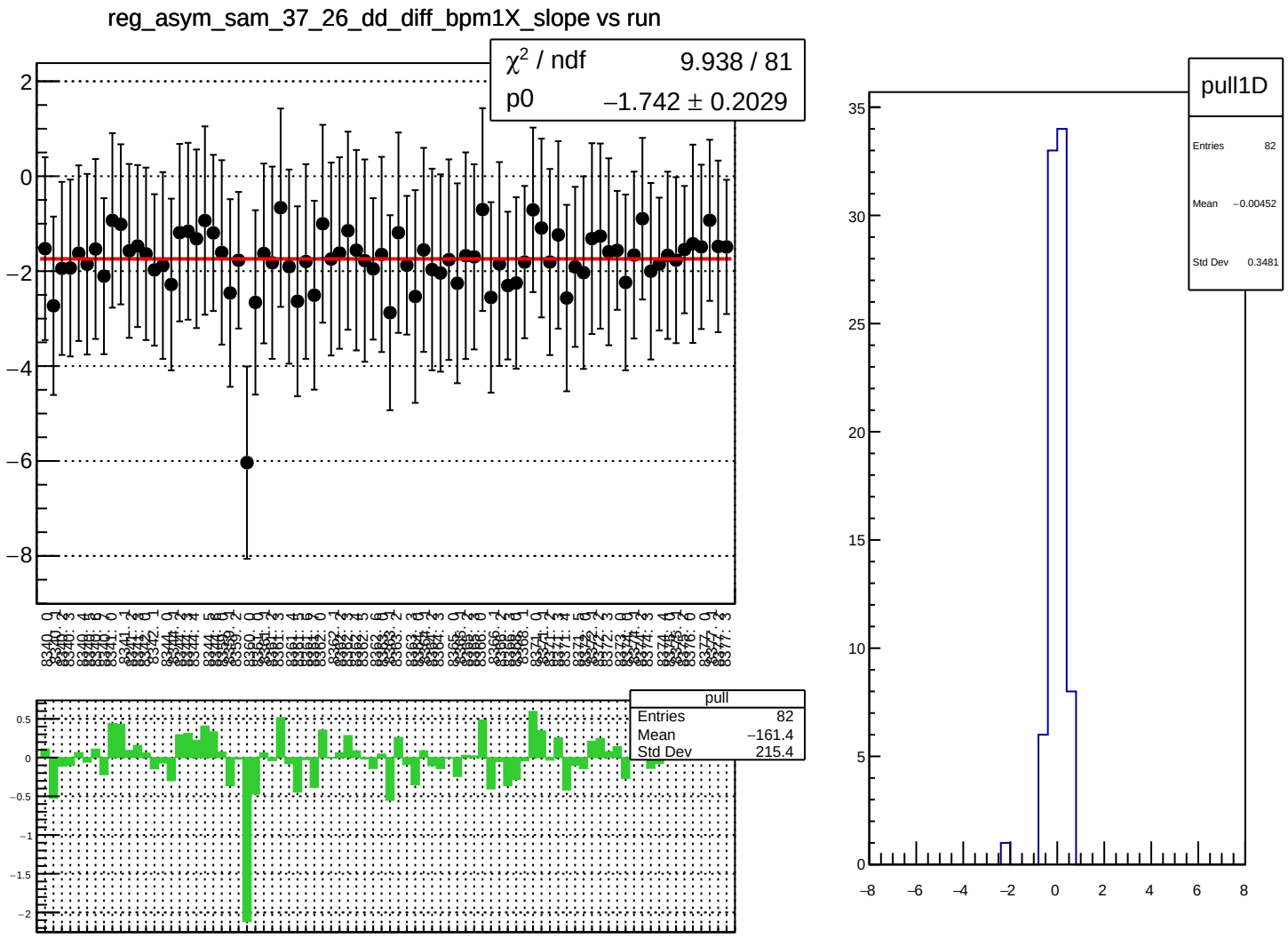

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.366 / 81
p0 35.1 ± 0.7288
pull
Entries 82
Mean −348.2
Std Dev 390.1
pull1D
Entries 82
Mean −0.004086
Std Dev 0.2026

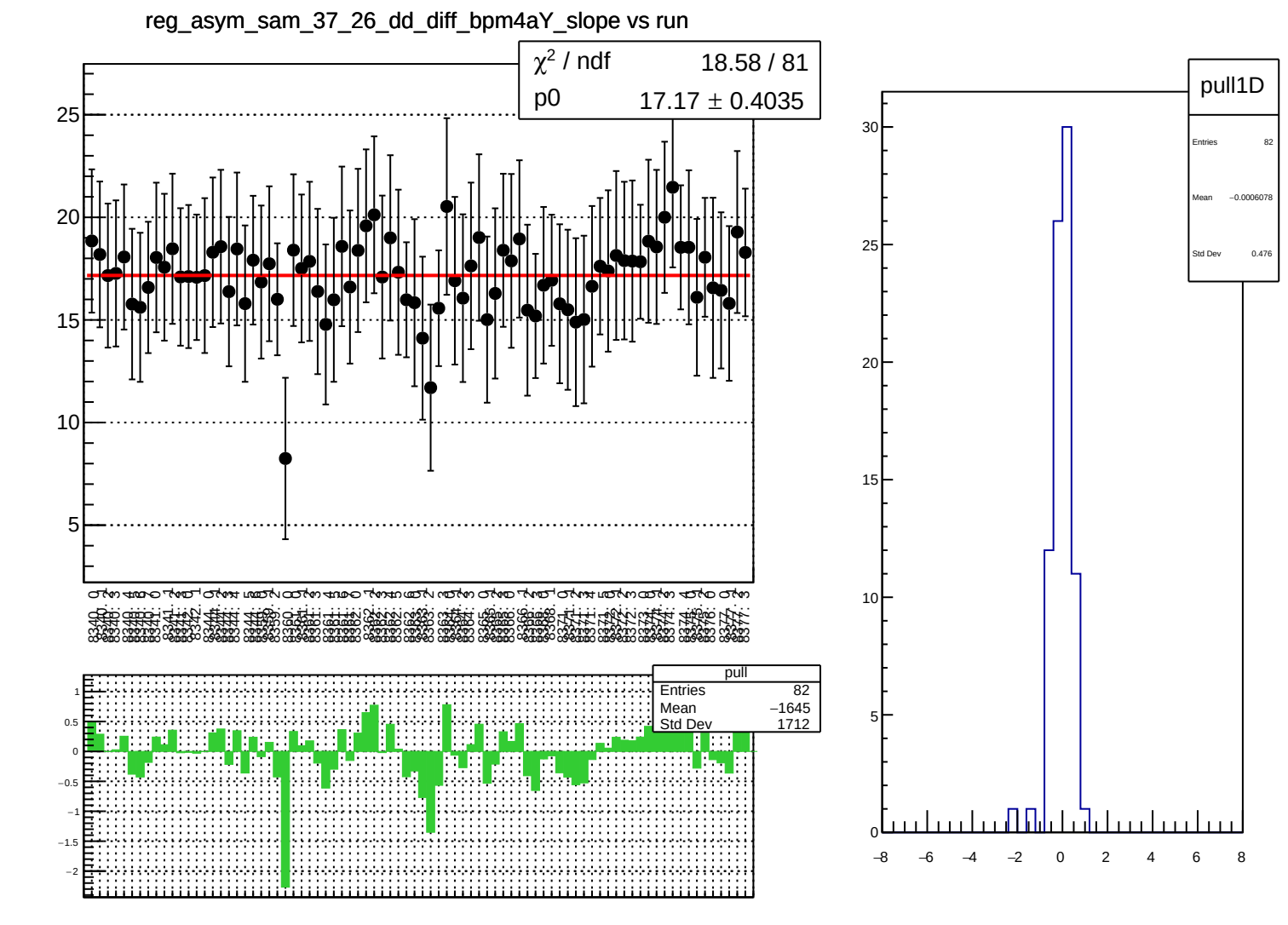

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 2.171 / 81
p0 19.71 ± 1.305
pull
Entries 82
Mean 565.7
Std Dev 537.5

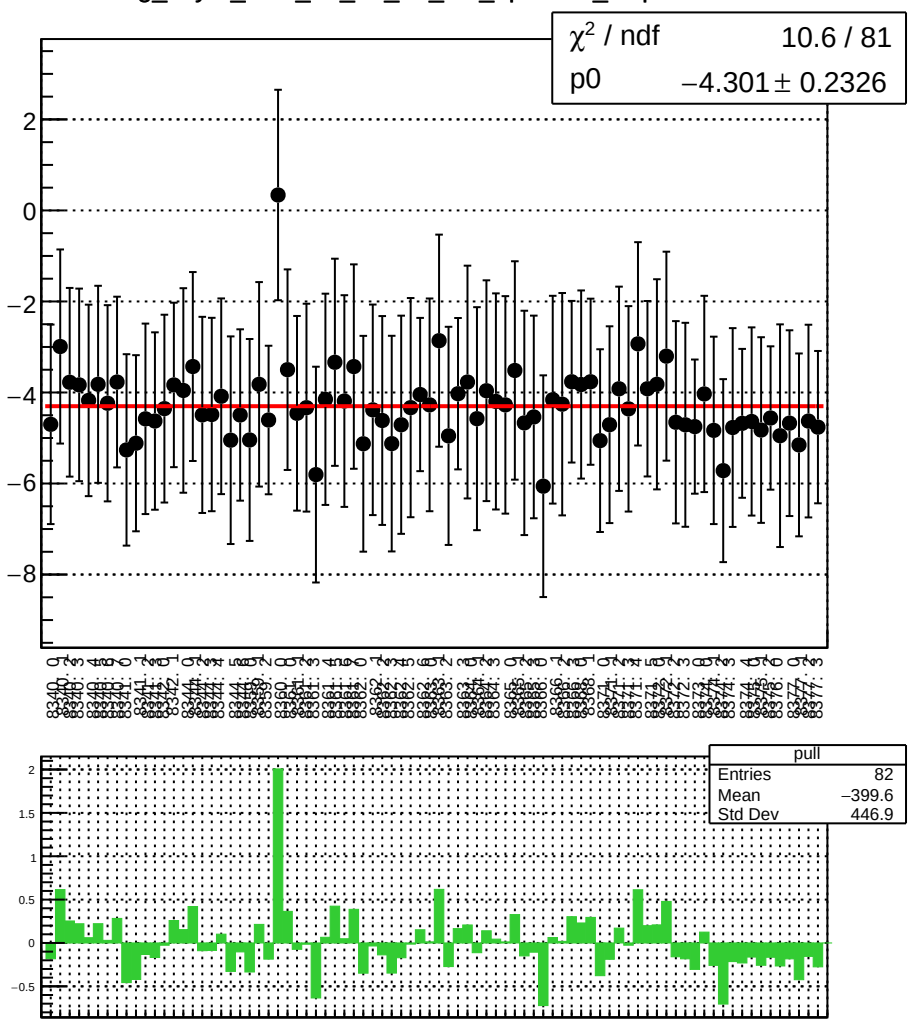

pull1D
Entries 82
Mean −0.0003784
Std Dev 0.1627

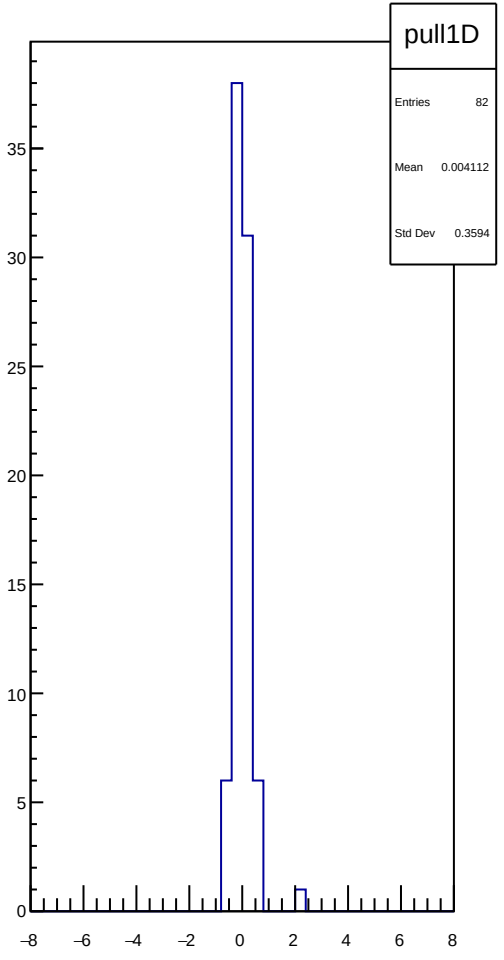

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 3.438 / 81
p0 −1.275 ± 0.07823
pull
Entries 82
Mean 380.8
Std Dev 339.9

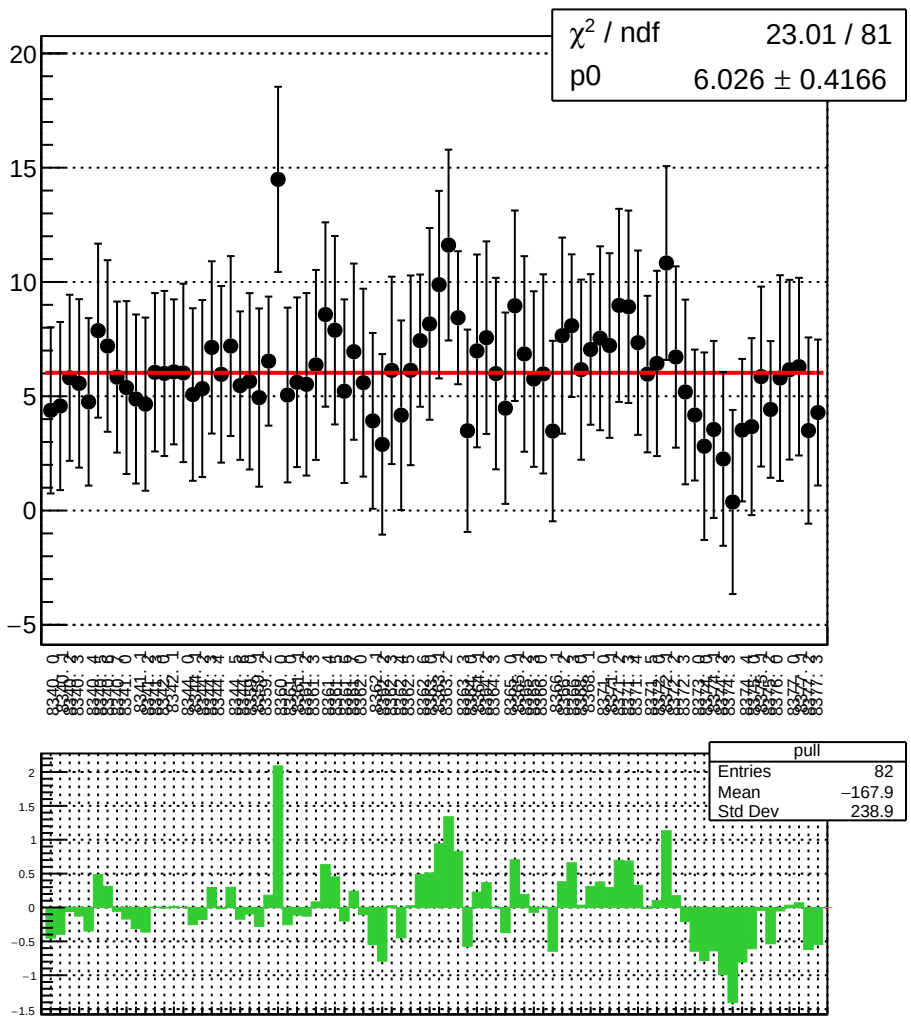

pull1D
Entries 82
Mean −0.005989
Std Dev 0.2047

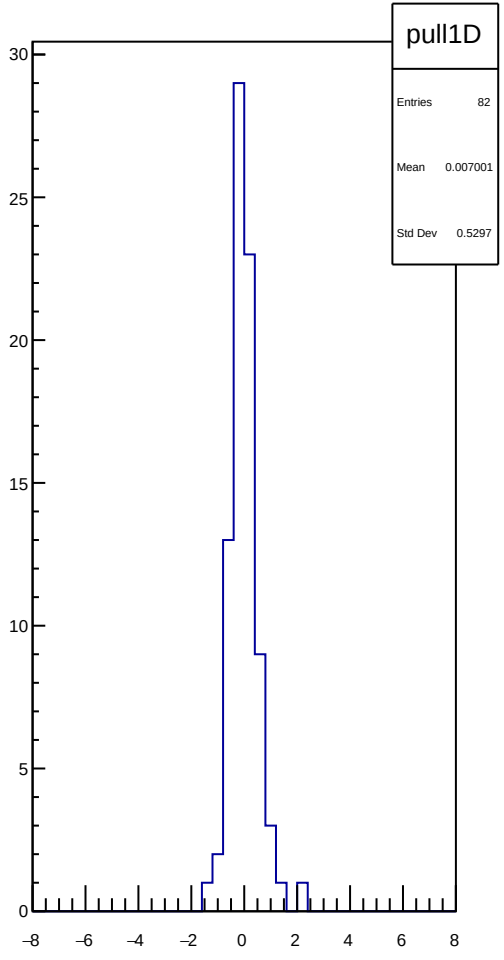

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 9.938 / 81
p0 −1.742 ± 0.2029
pull
Entries 82
Mean −161.4
Std Dev 215.4
pull1D
Entries 82
Mean −0.00452
Std Dev 0.3481

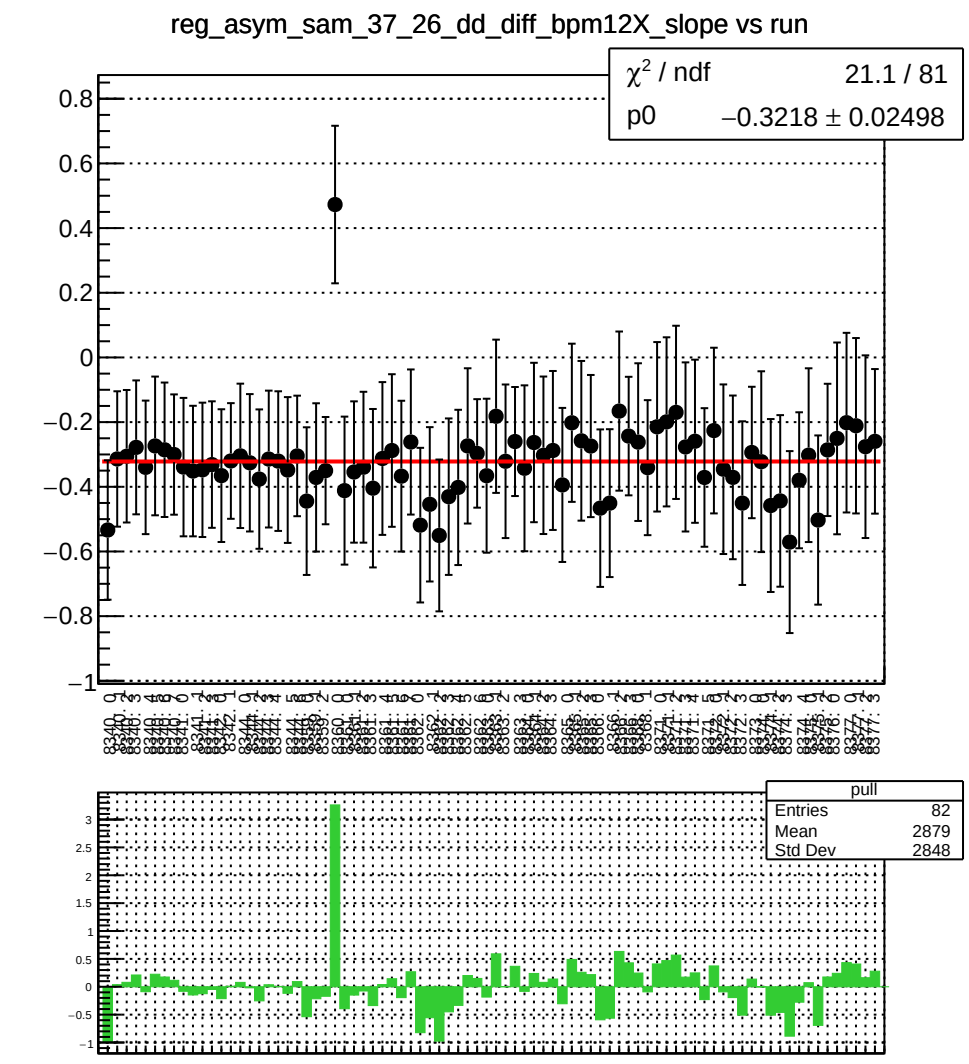

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.58 / 81
p0 17.17 ± 0.4035
pull
Entries 82
Mean −1645
Std Dev 1712
pull1D
Entries 82
Mean −0.0006078
Std Dev 0.476

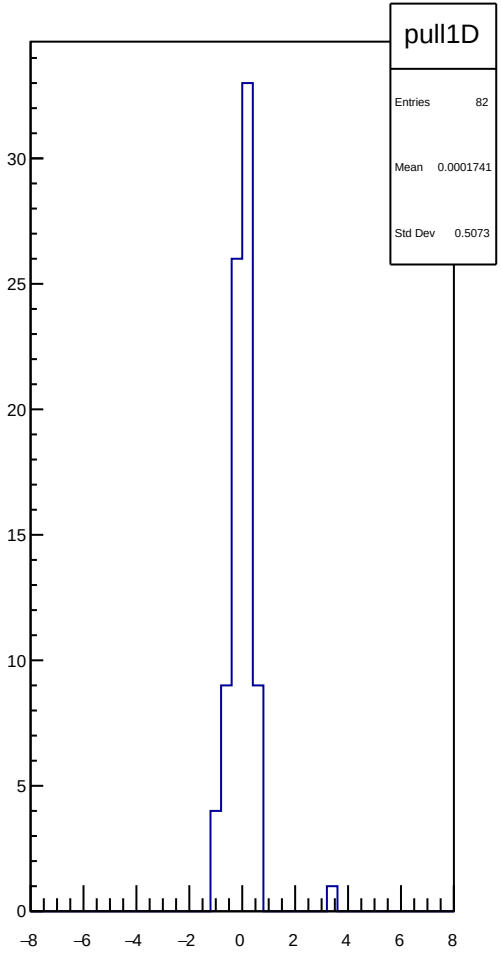

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.6 / 81
p0 −4.301 ± 0.2326
pull
Entries 82
Mean −399.6
Std Dev 446.9

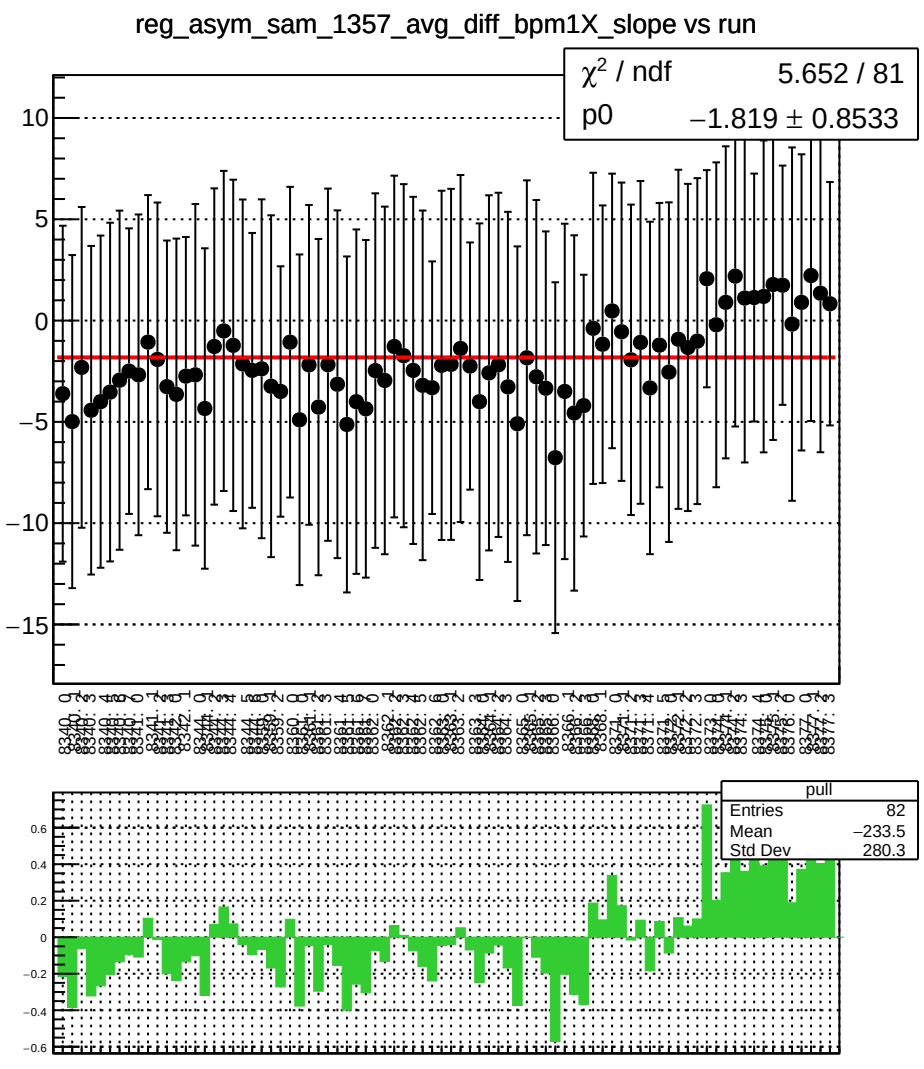

pull1D
Entries 82
Mean 0.004112
Std Dev 0.3594

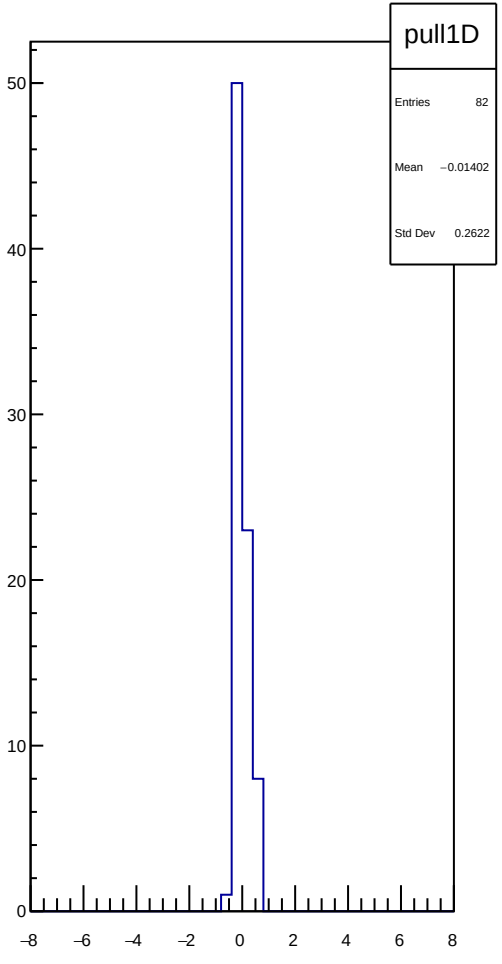

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.01 / 81
p0 6.026 ± 0.4166
pull
Entries 82
Mean −167.9
Std Dev 238.9

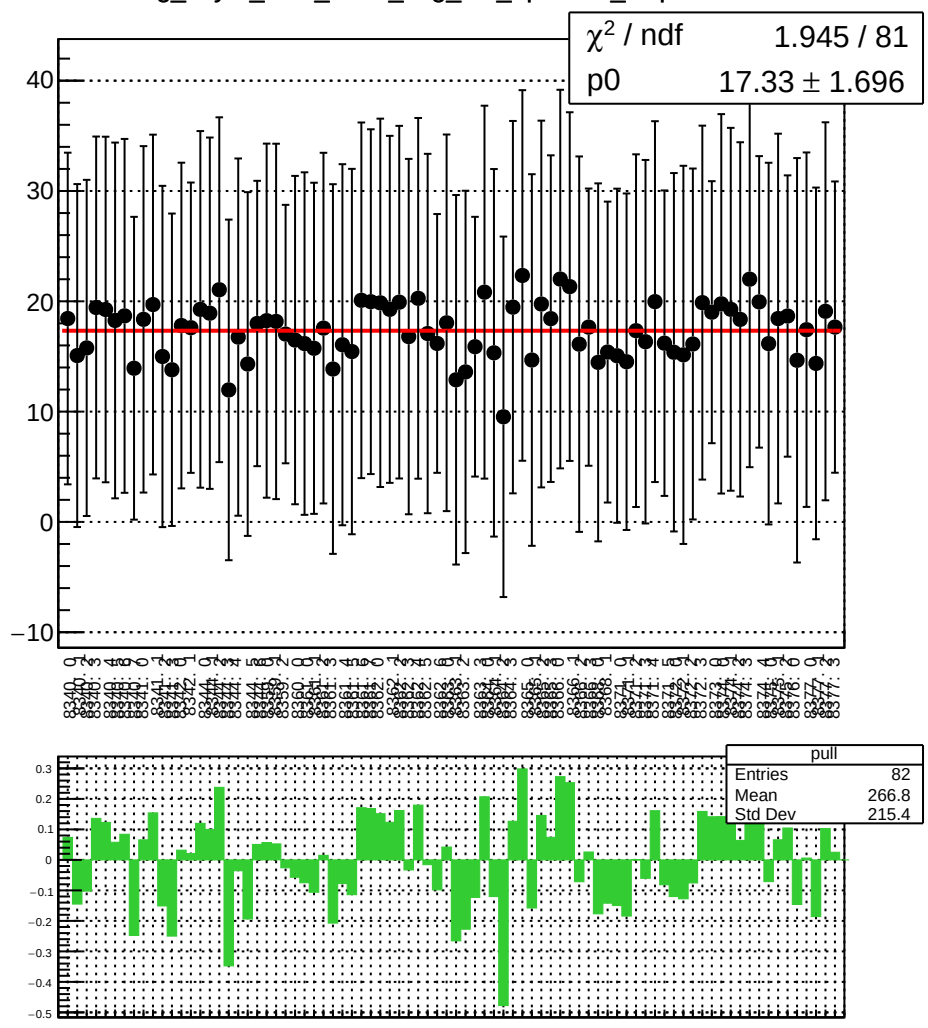

pull1D
Entries 82
Mean 0.007001
Std Dev 0.5297

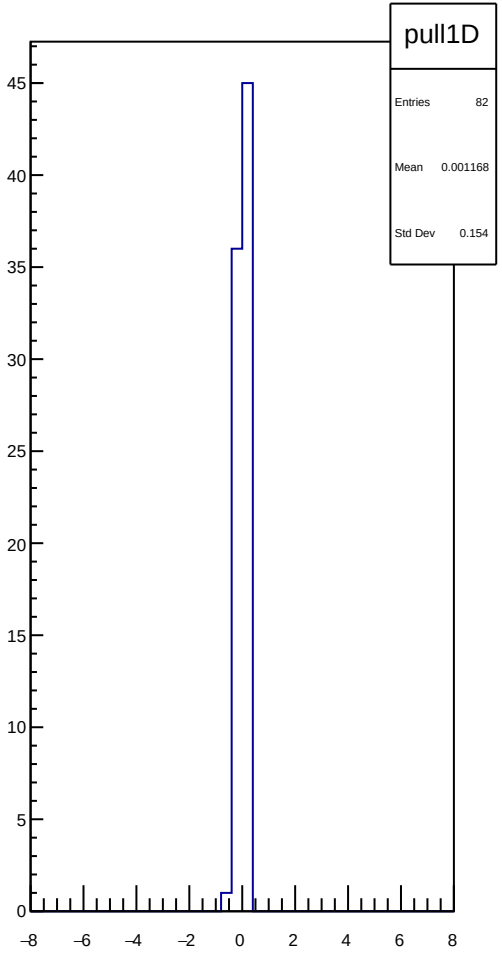

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 21.1 / 81
p0 −0.3218 ± 0.02498
pull
Entries 82
Mean 2879
Std Dev 2848

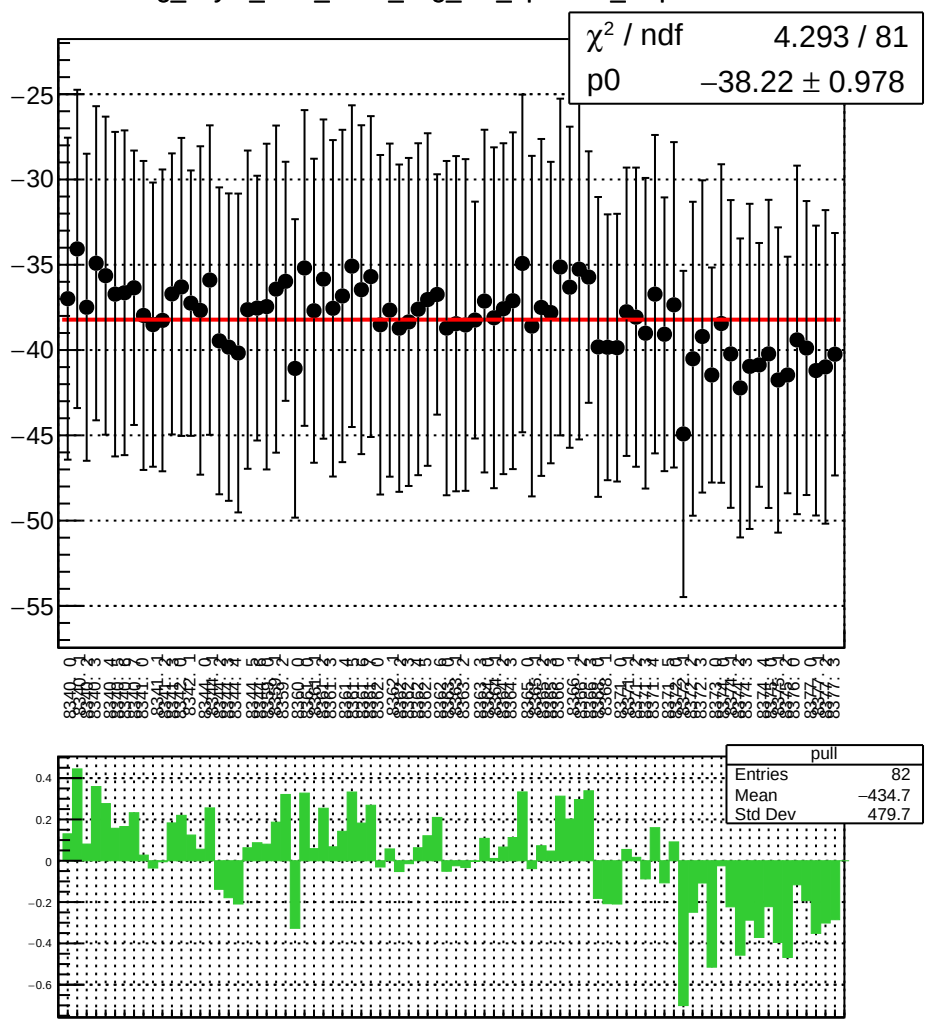

pull1D
Entries 82
Mean 0.0001741
Std Dev 0.5073

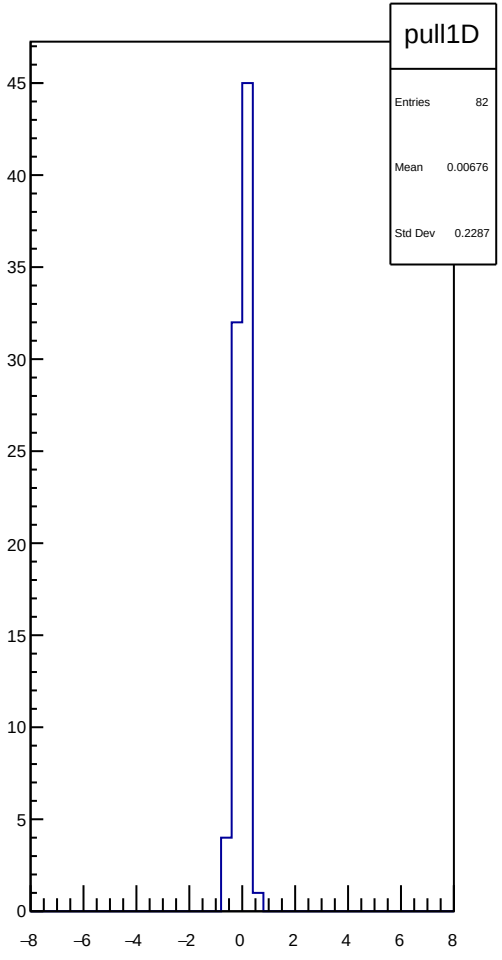

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 5.652 / 81
p0 −1.819 ± 0.8533
pull
Entries 82
Mean −233.5
Std Dev 280.3

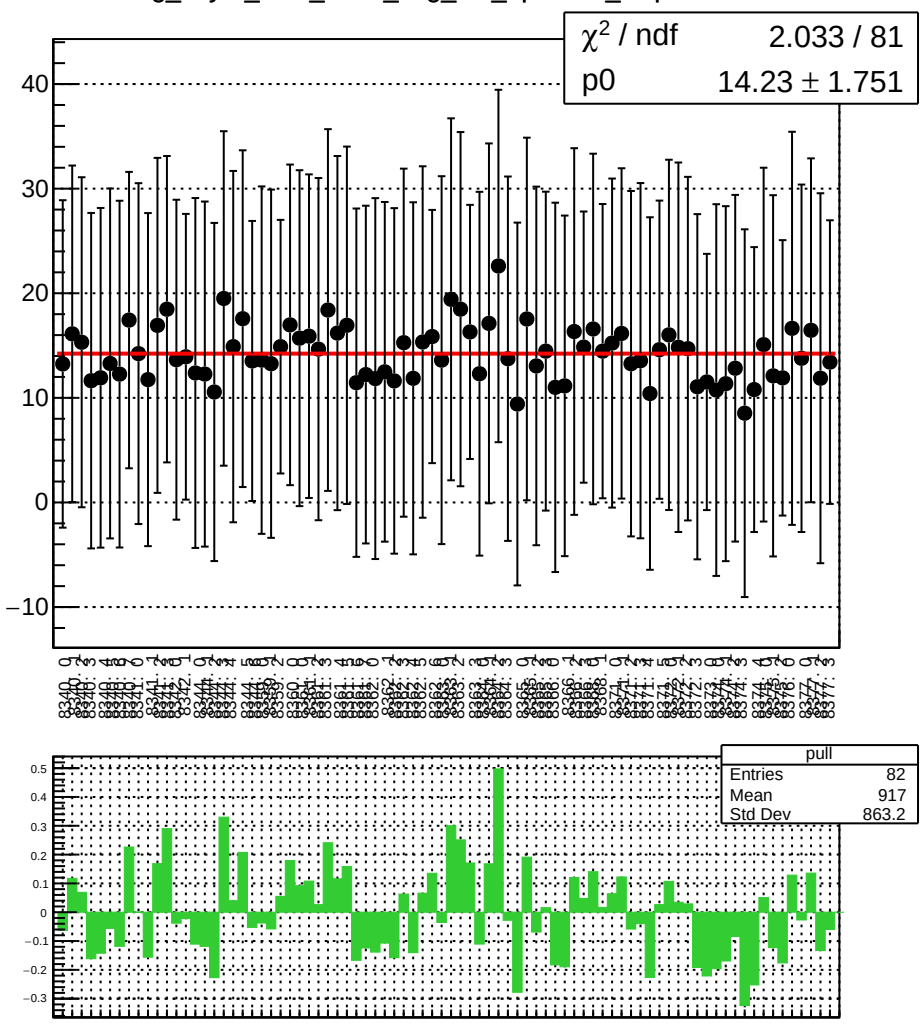

pull1D
Entries 82
Mean −0.01402
Std Dev 0.2622

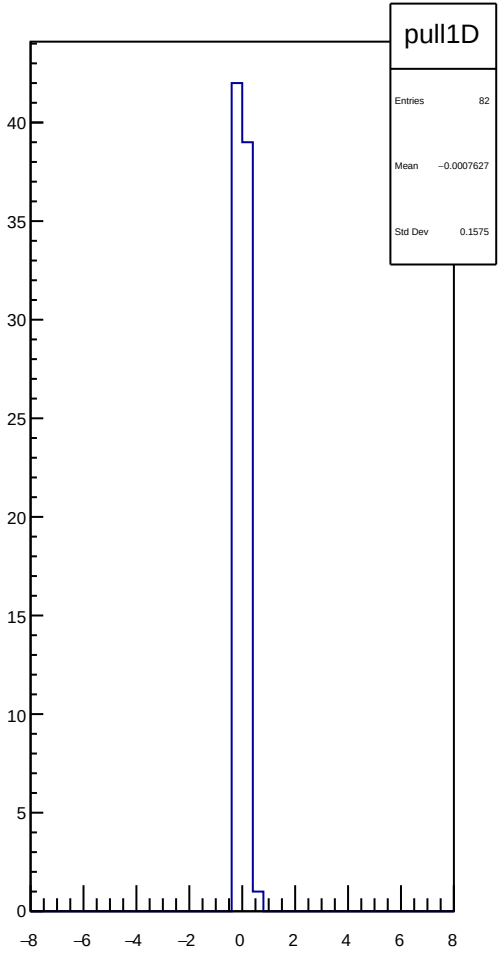

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.945 / 81
p0 17.33 ± 1.696
pull
Entries 82
Mean 266.8
Std Dev 215.4

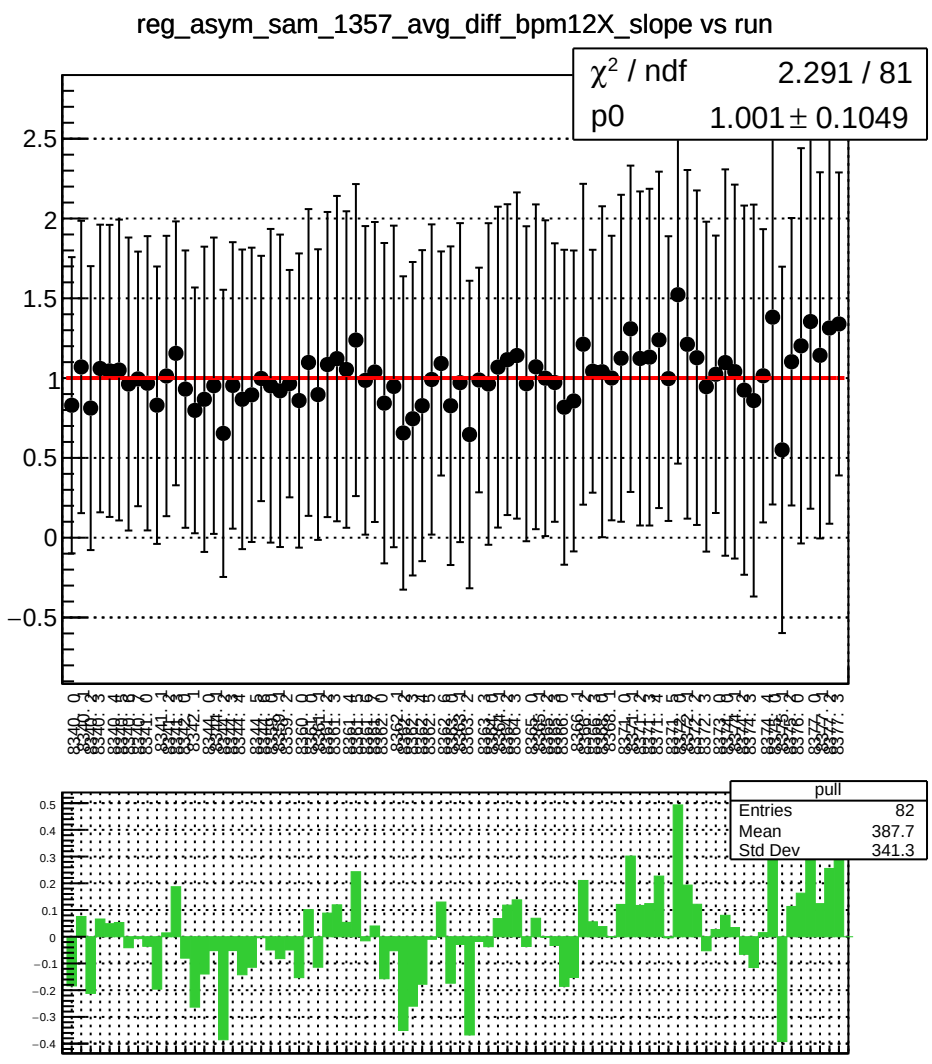

pull1D
Entries 82
Mean 0.001168
Std Dev 0.154

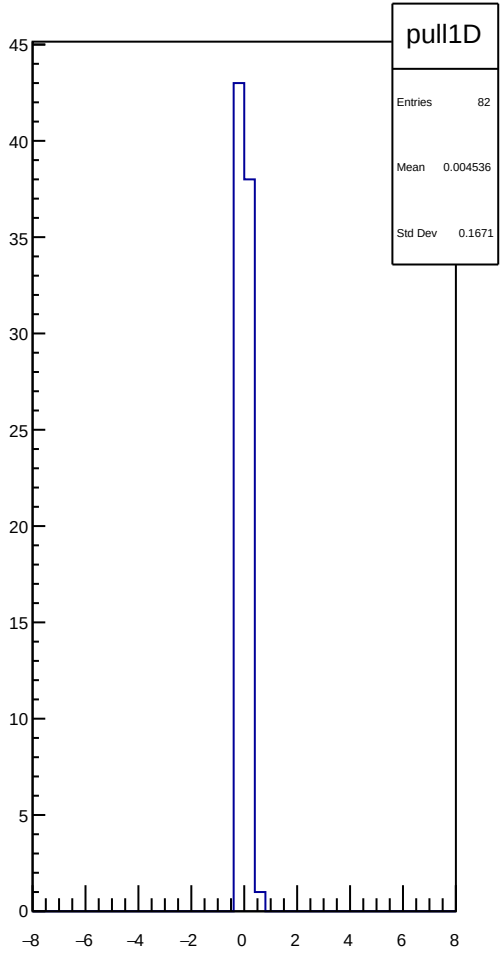

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.293 / 81
p0 −38.22 ± 0.978
pull
Entries 82
Mean −434.7
Std Dev 479.7

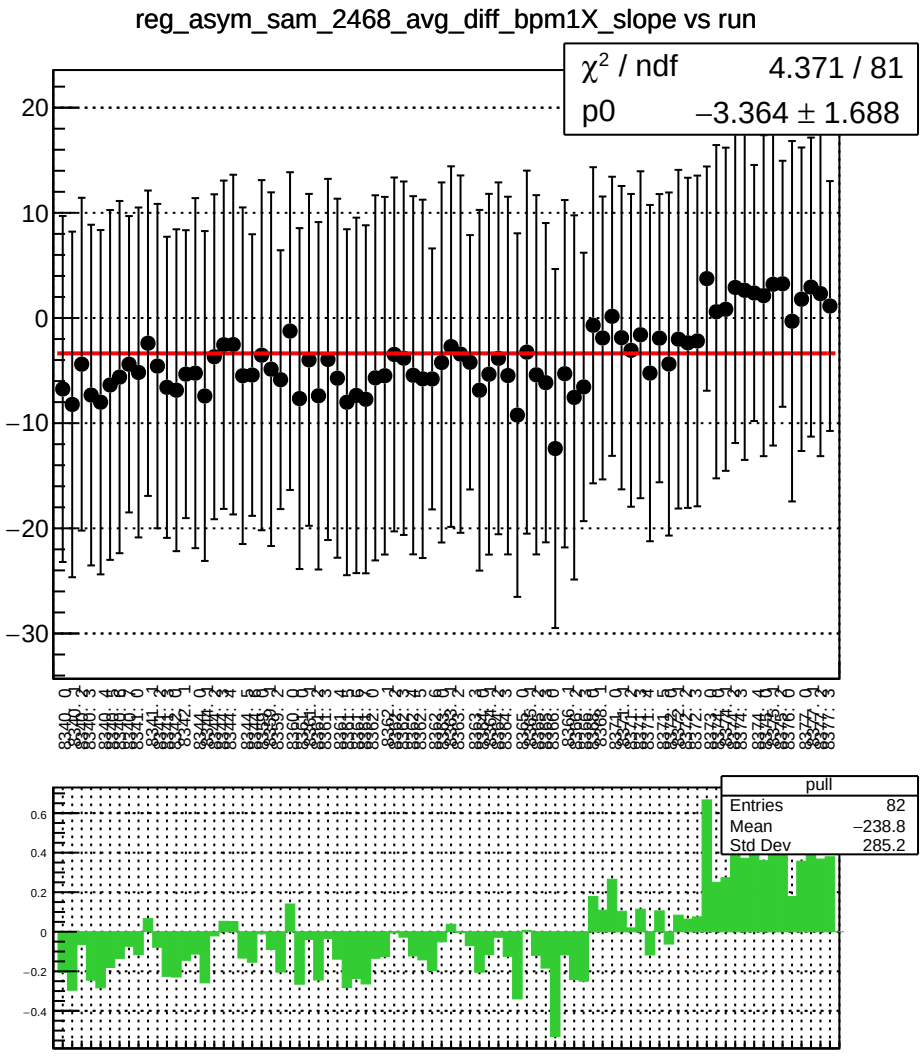

pull1D
Entries 82
Mean 0.00676
Std Dev 0.2287

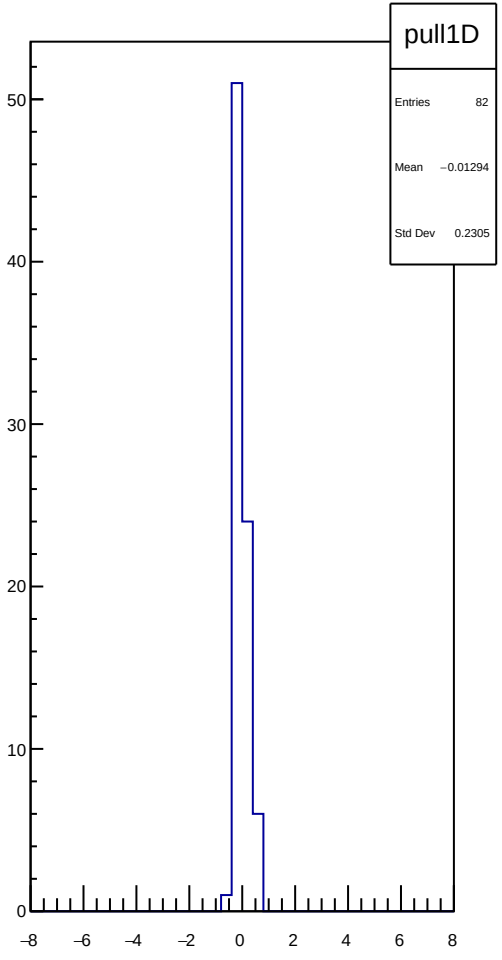

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.033 / 81
p0 14.23 ± 1.751
pull
Entries 82
Mean 917
Std Dev 863.2

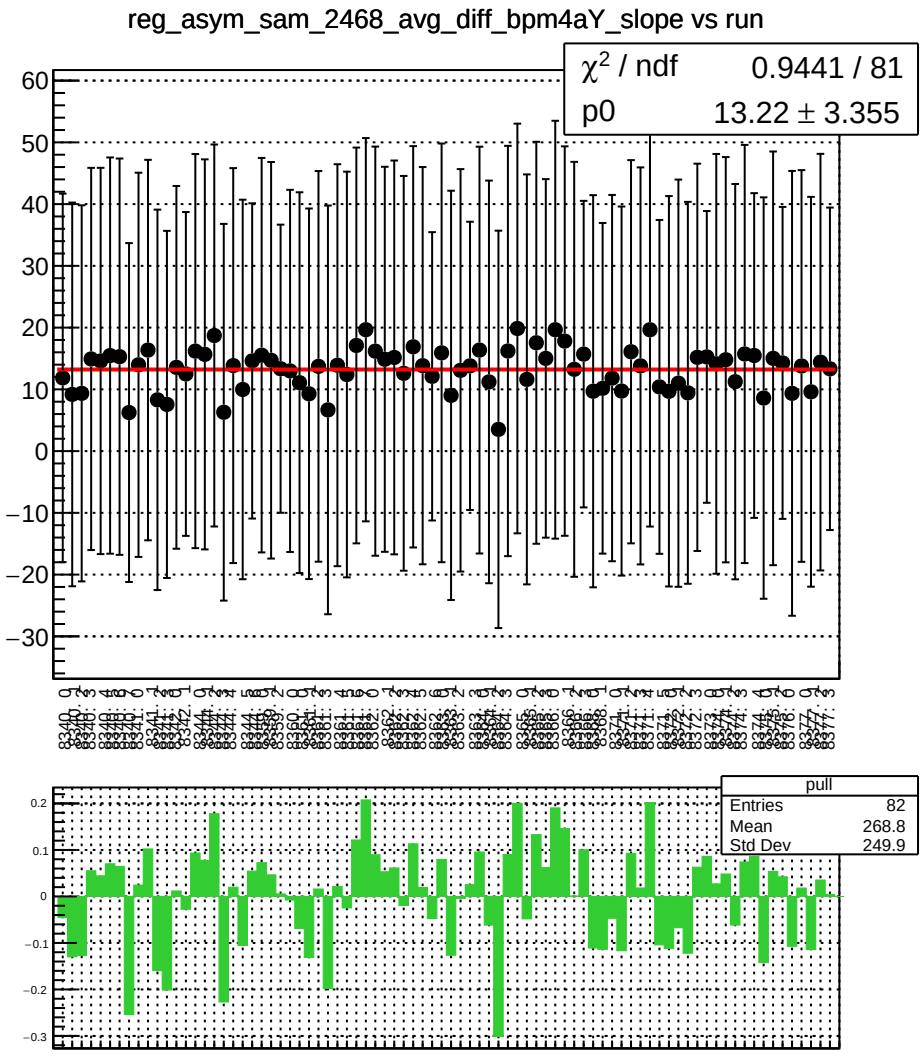

pull1D
Entries 82
Mean −0.0007627
Std Dev 0.1575

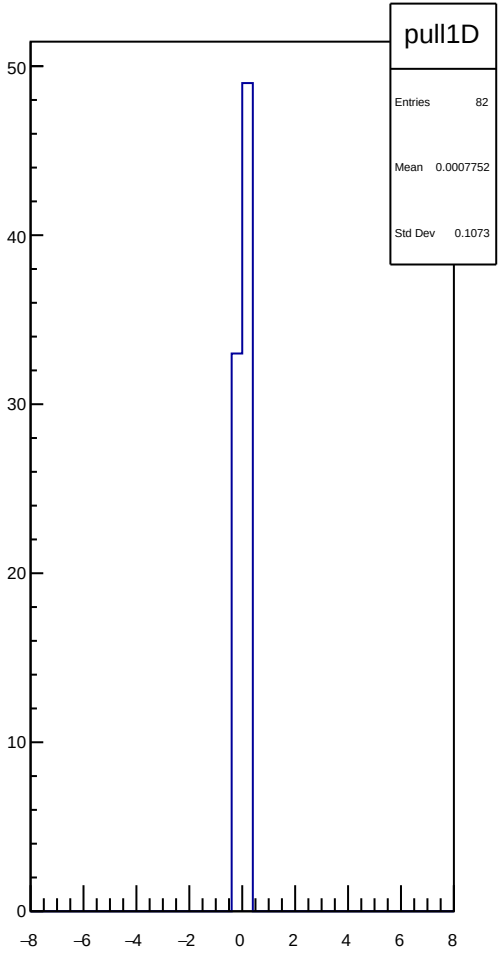

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 2.291 / 81
p0 1.001 ± 0.1049
pull
Entries 82
Mean 387.7
Std Dev 341.3

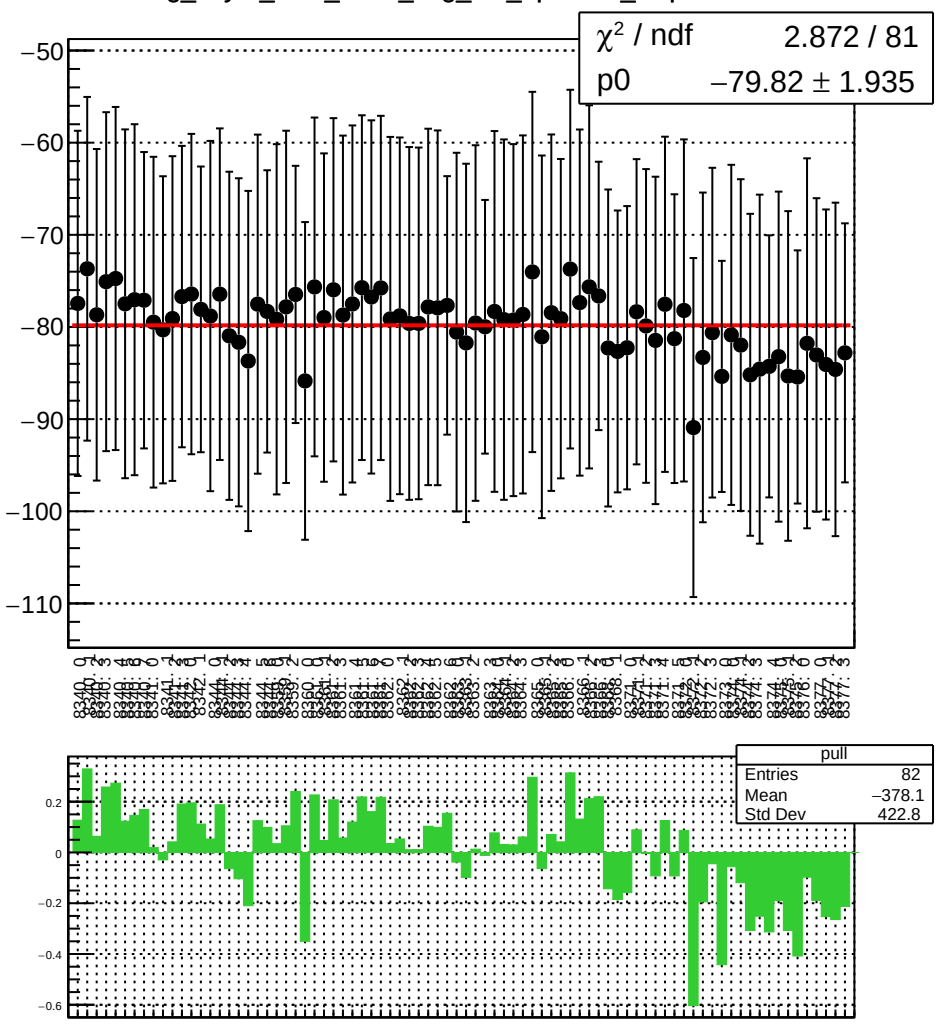

pull1D
Entries 82
Mean 0.004536
Std Dev 0.1671

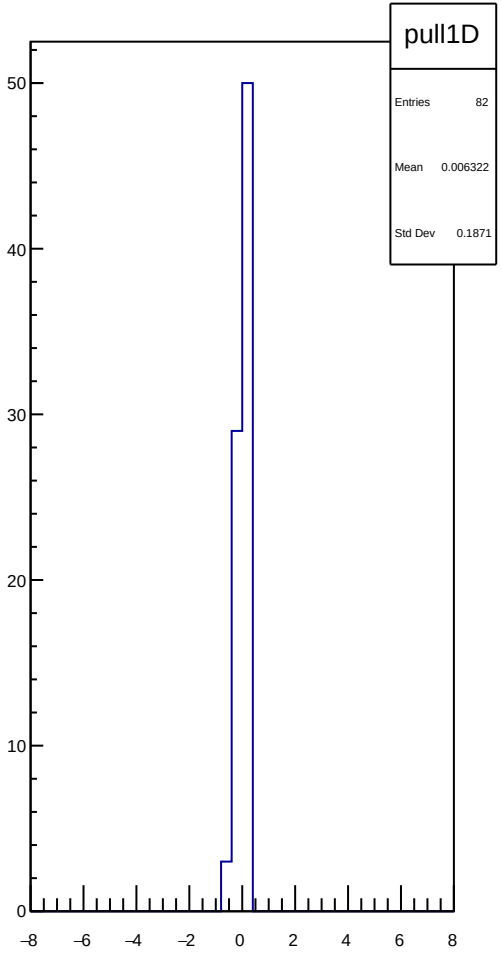

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 4.371 / 81
p0 −3.364 ± 1.688
pull
Entries 82
Mean −238.8
Std Dev 285.2

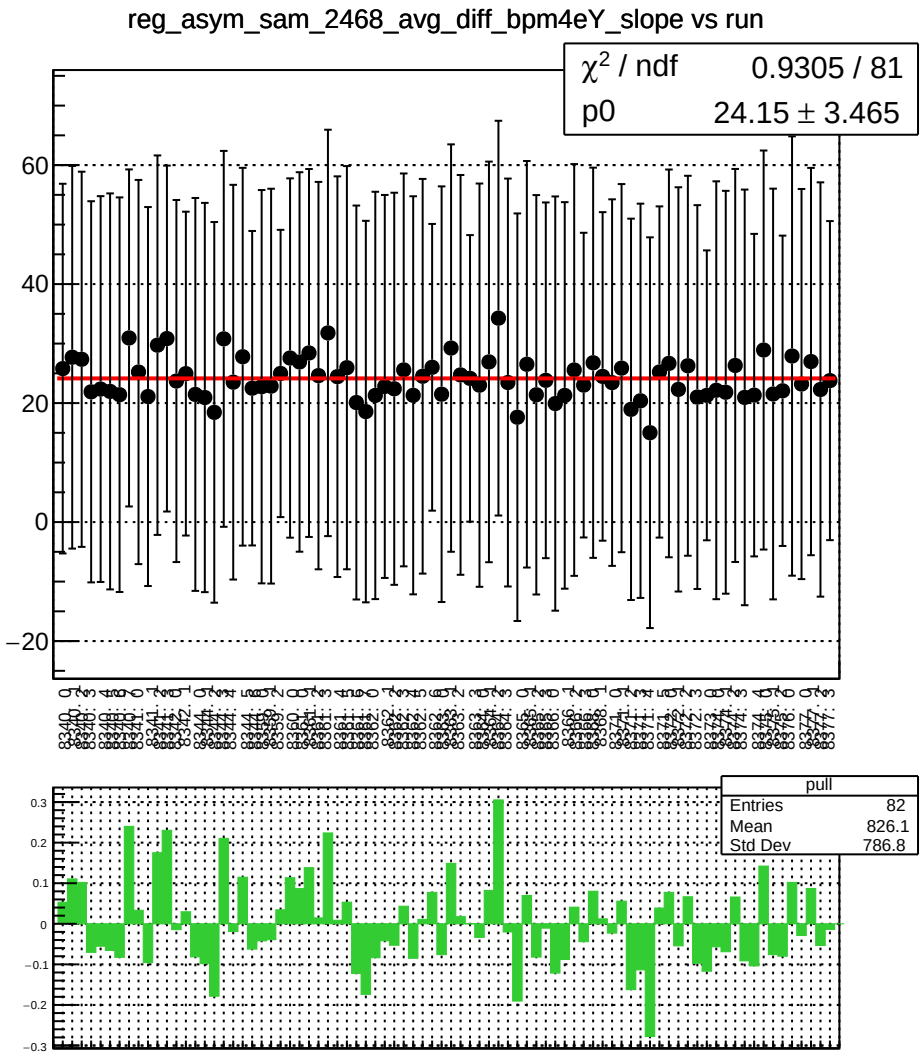

pull1D
Entries 82
Mean −0.01294
Std Dev 0.2305

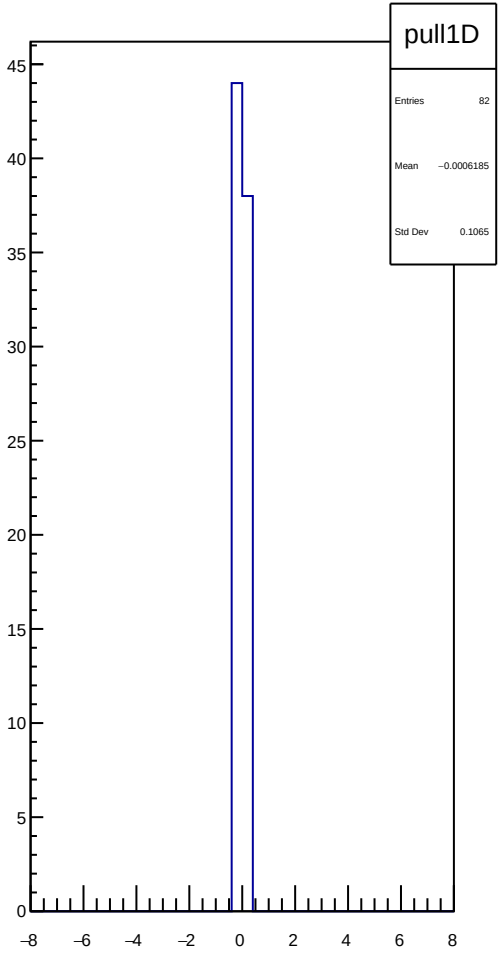

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 0.9441 / 81
p0 13.22 ± 3.355
pull
Entries 82
Mean 268.8
Std Dev 249.9

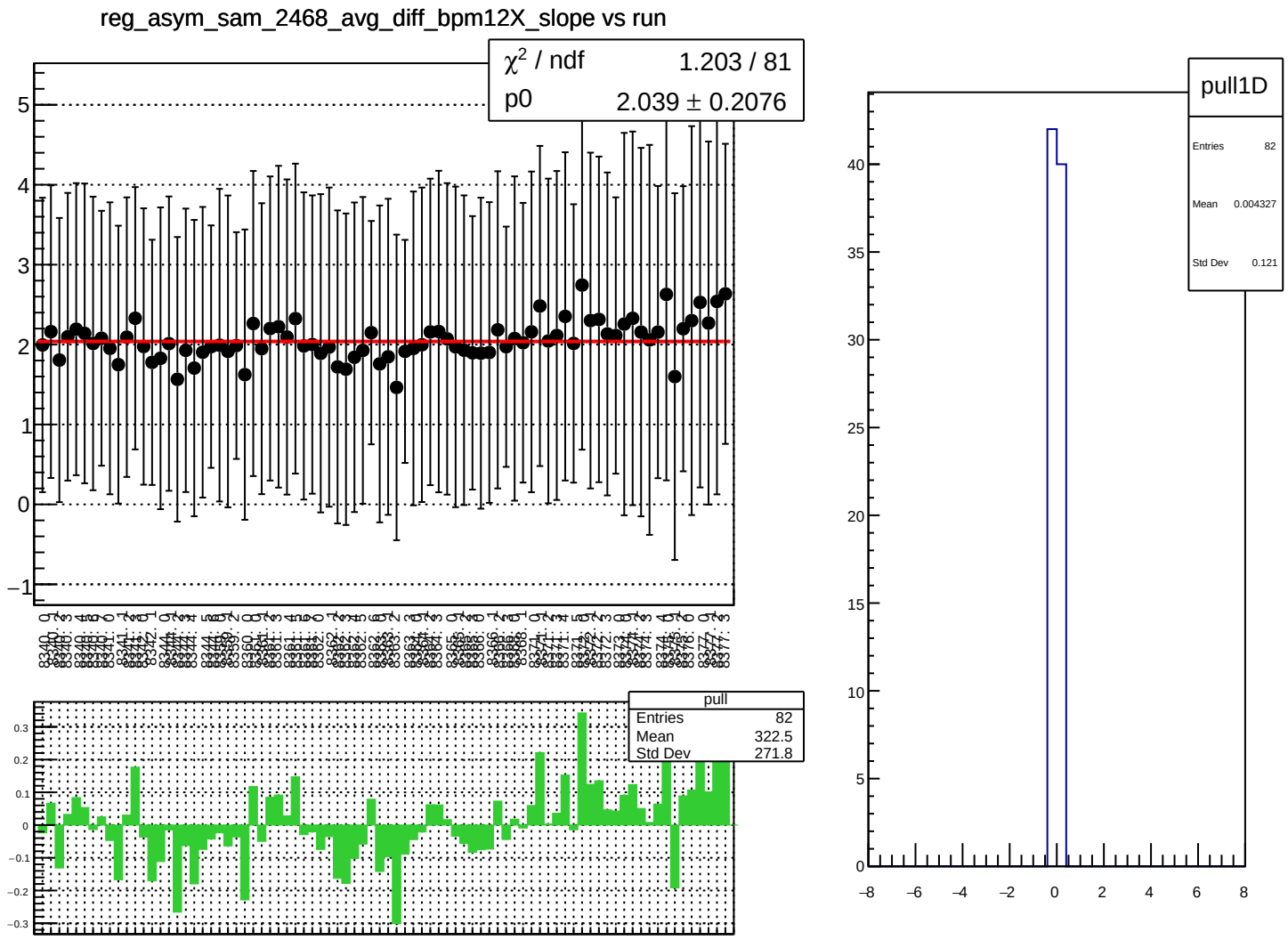

pull1D
Entries 82
Mean 0.0007752
Std Dev 0.1073

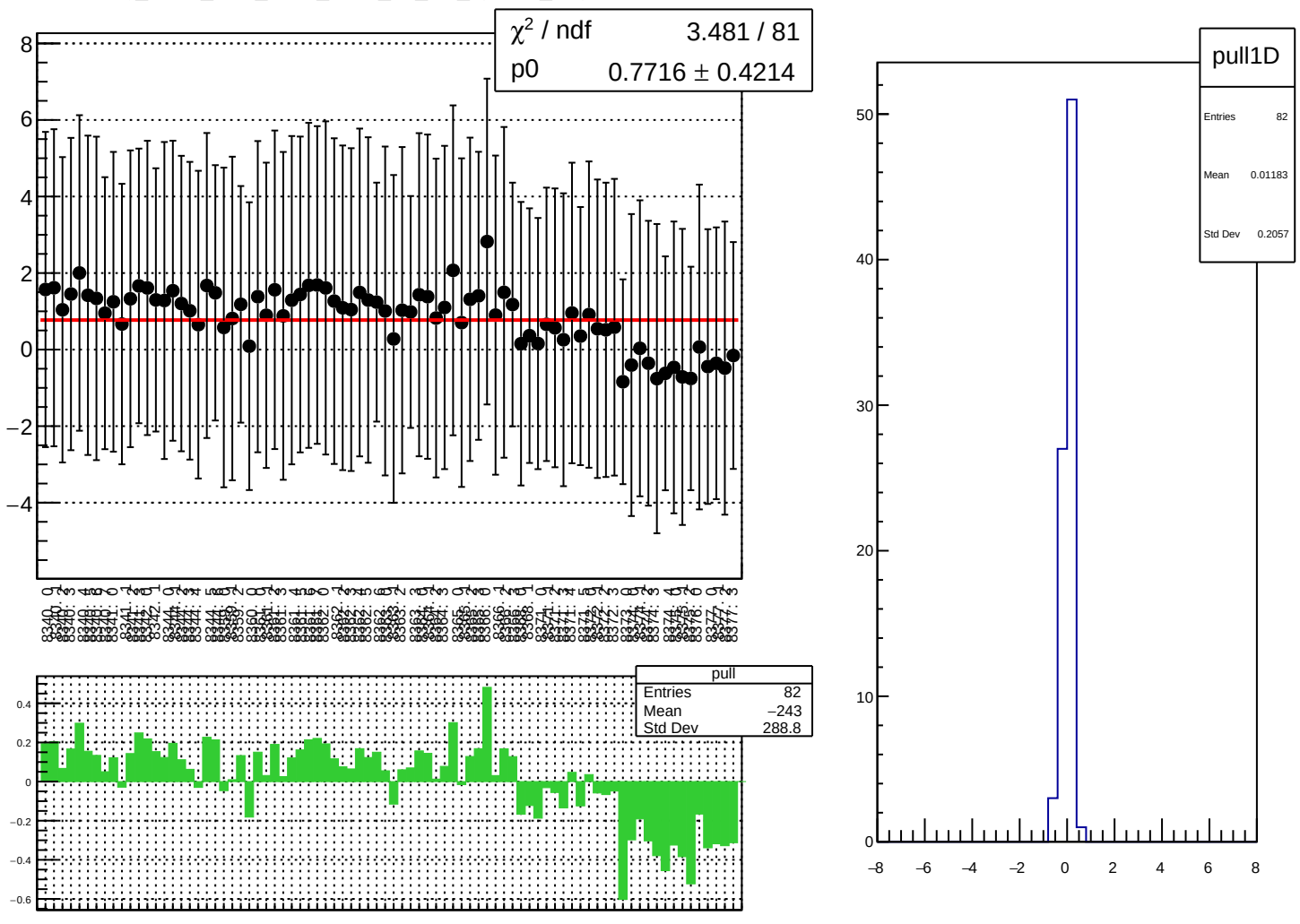

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.872 / 81
p0 −79.82 ± 1.935
pull
Entries 82
Mean −378.1
Std Dev 422.8

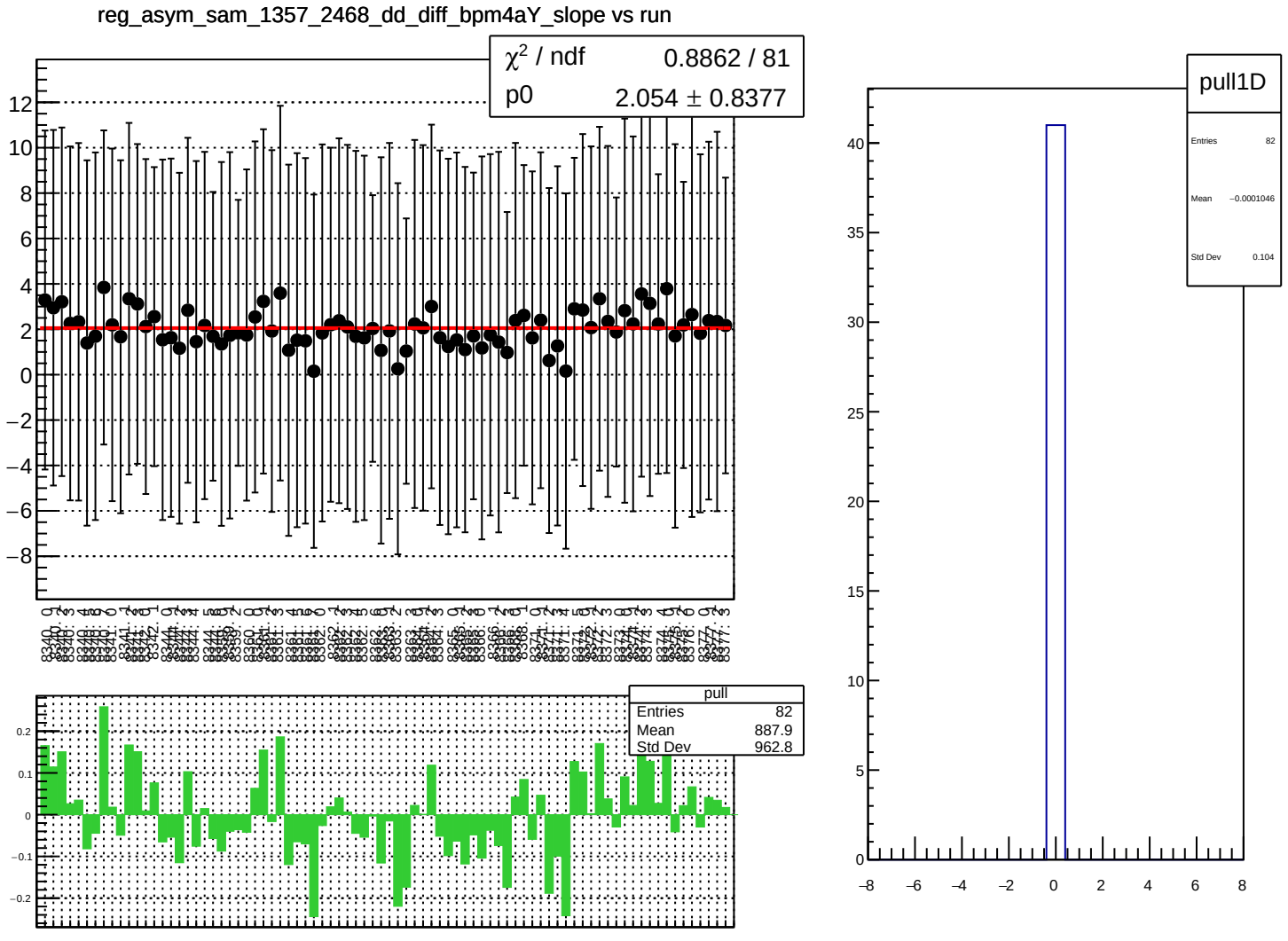

pull1D
Entries 82
Mean 0.006322
Std Dev 0.1871

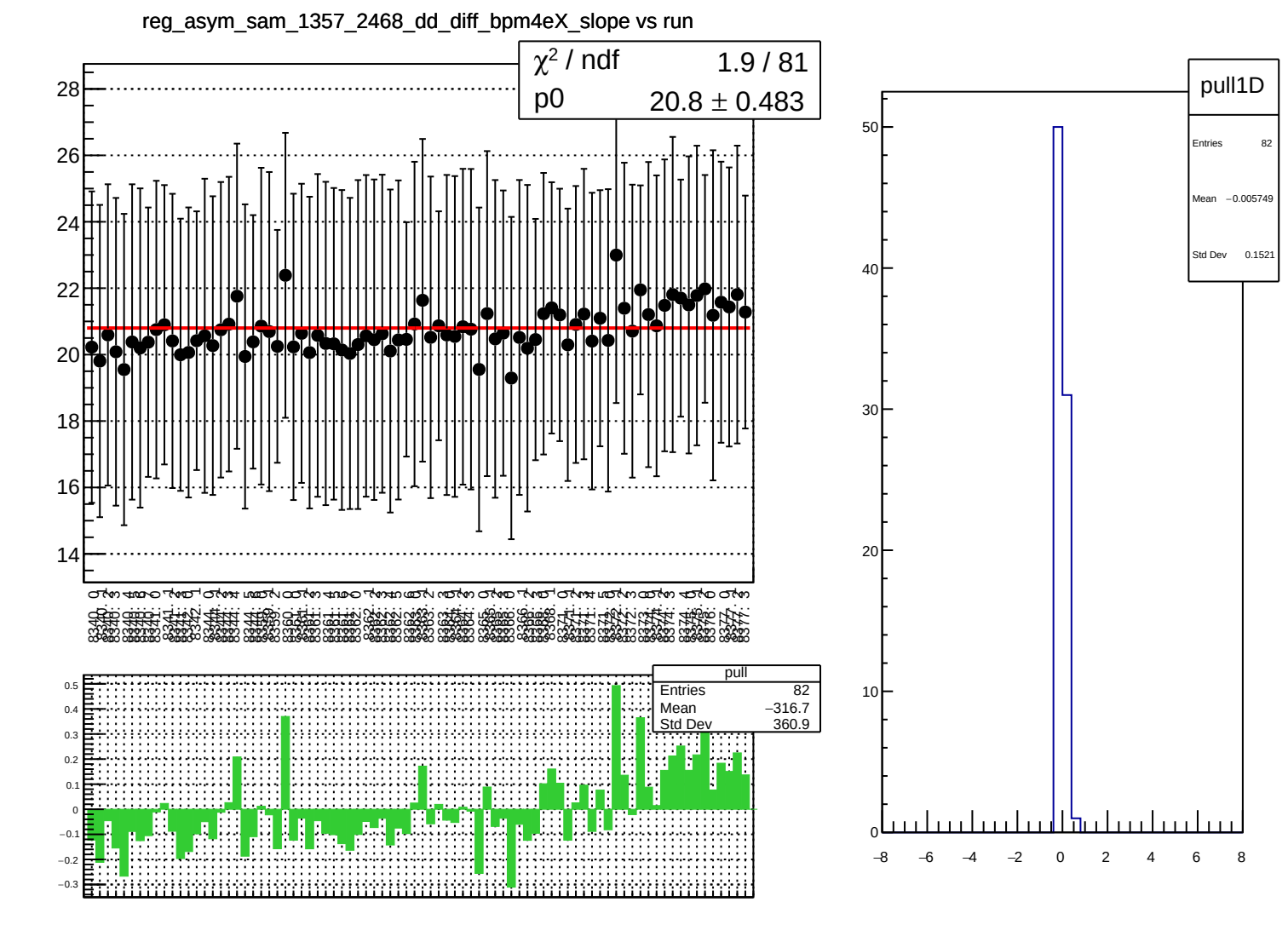

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.9305 / 81
p0 24.15 ± 3.465
pull
Entries 82
Mean 826.1
Std Dev 786.8

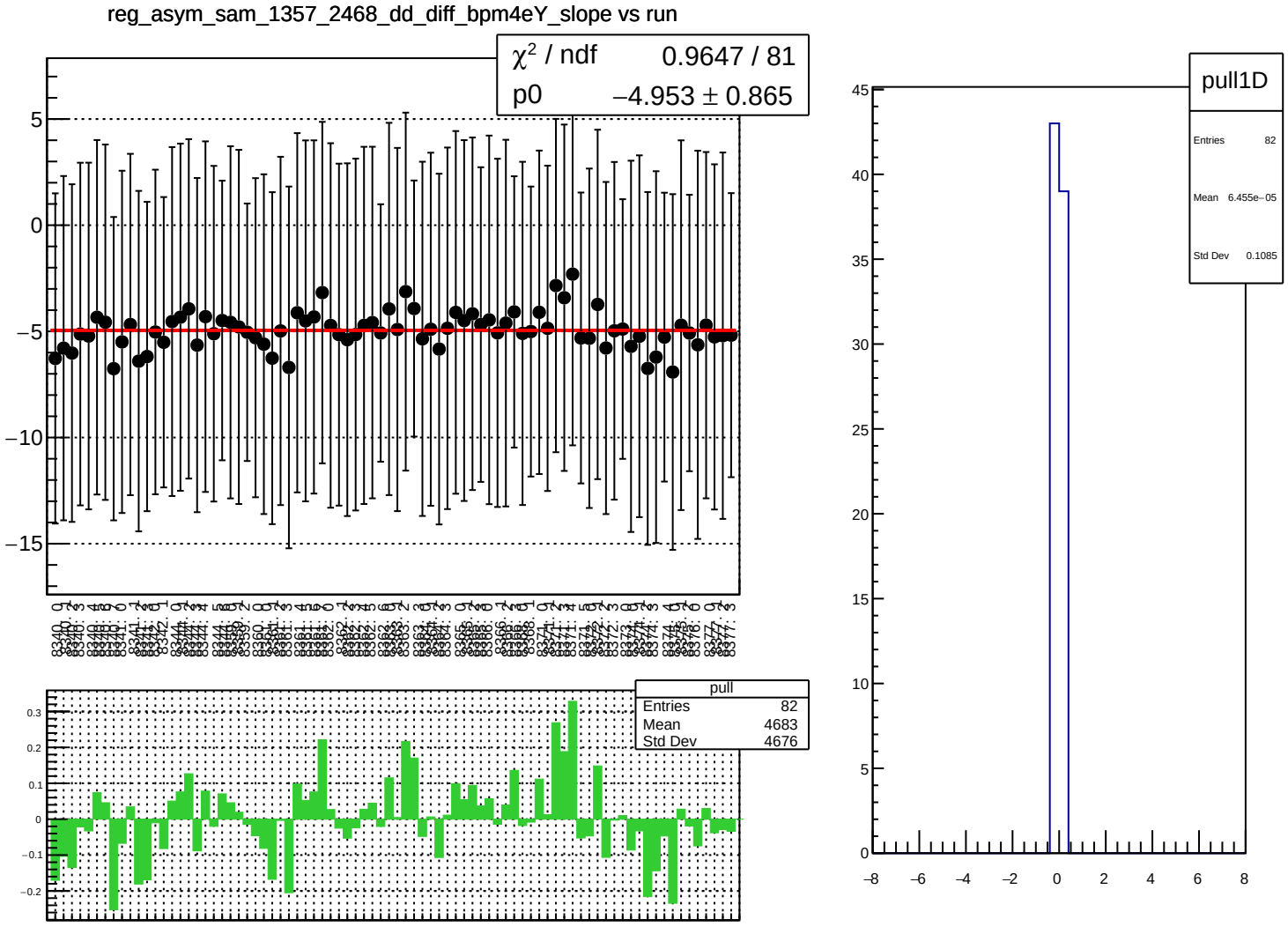

pull1D
Entries 82
Mean −0.0006185
Std Dev 0.1065

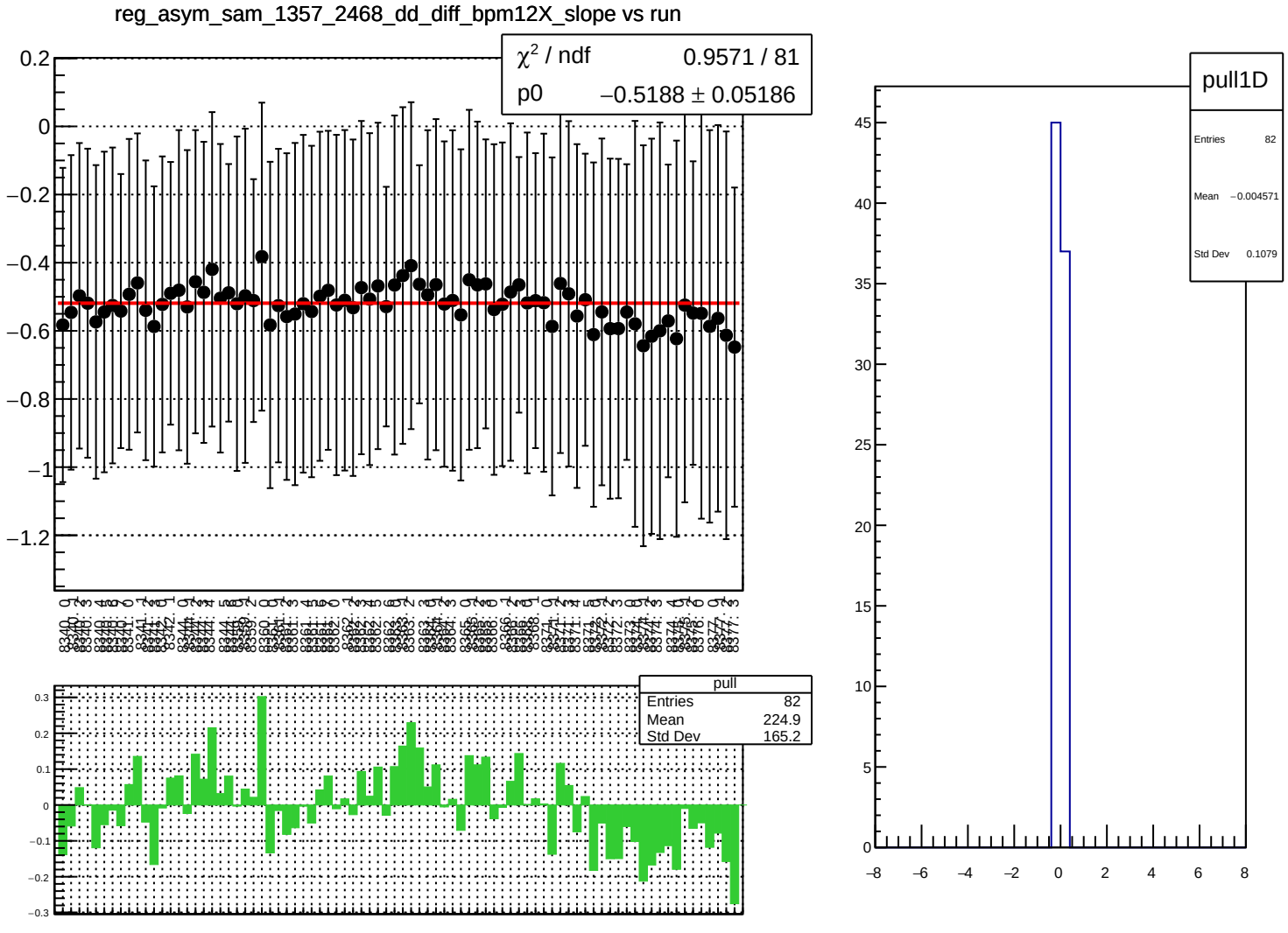

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1.203 / 81
p0 2.039 ± 0.2076
pull
Entries 82
Mean 322.5
Std Dev 271.8
pull1D
Entries 82
Mean 0.004327
Std Dev 0.121

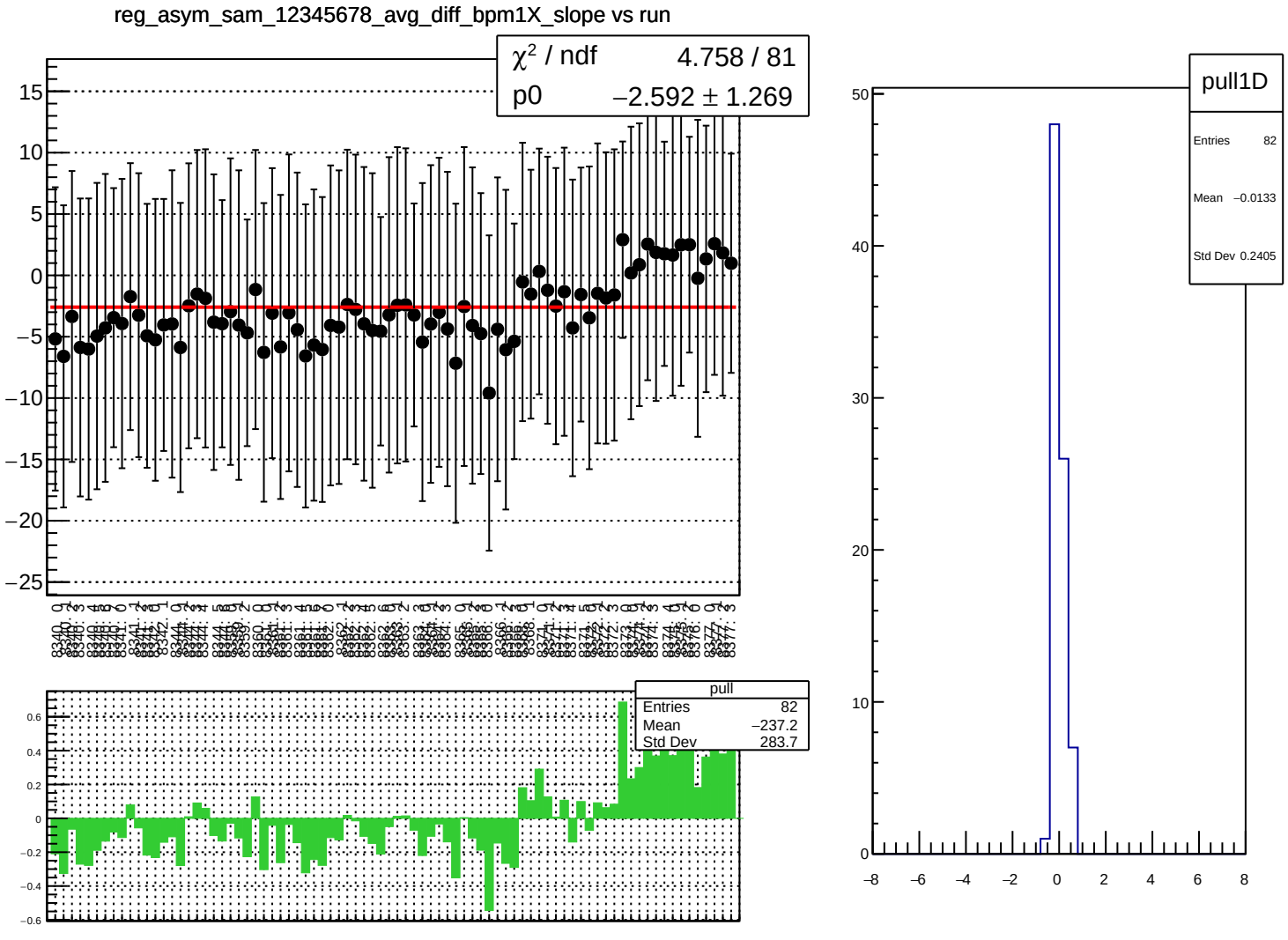

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 3.481 / 81
p0 0.7716 ± 0.4214
pull
Entries 82
Mean −243
Std Dev 288.8
pull1D
Entries 82
Mean 0.01183
Std Dev 0.2057

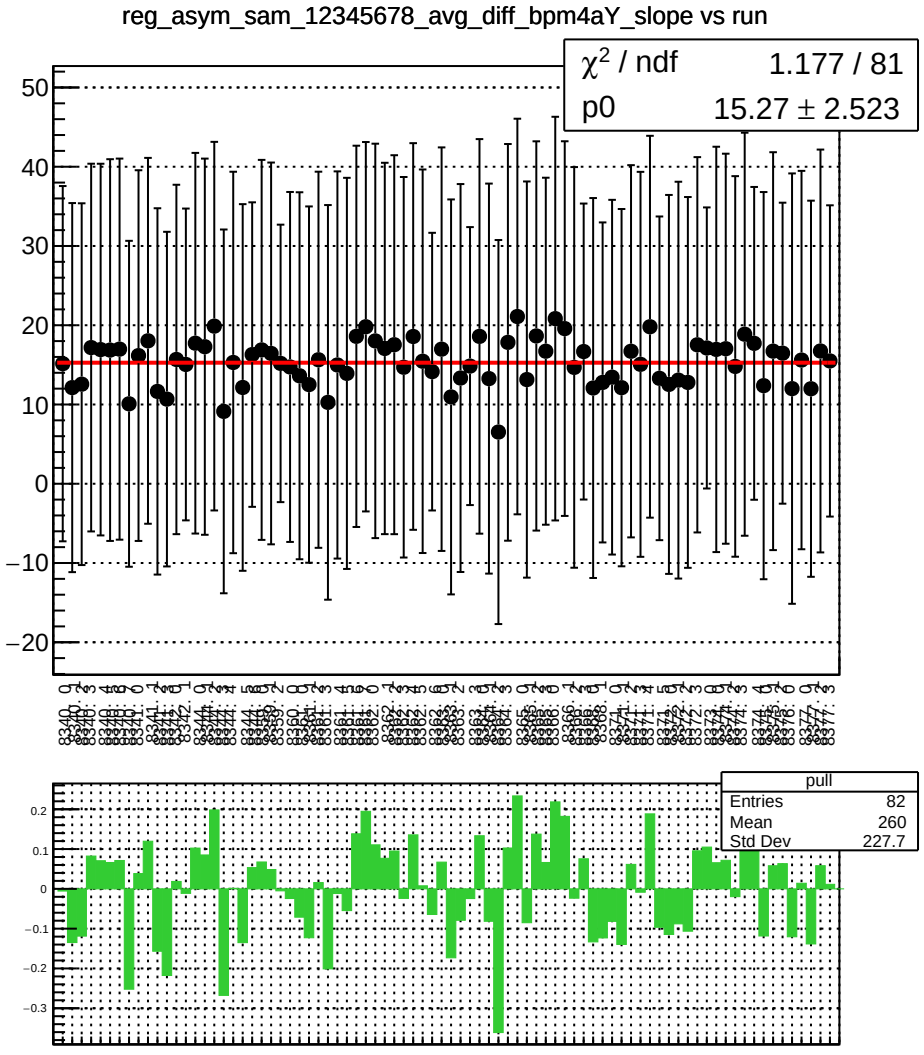

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.8862 / 81
p0 2.054 ± 0.8377
pull
Entries 82
Mean 887.9
Std Dev 962.8
pull1D
Entries 82
Mean −0.0001046
Std Dev 0.104

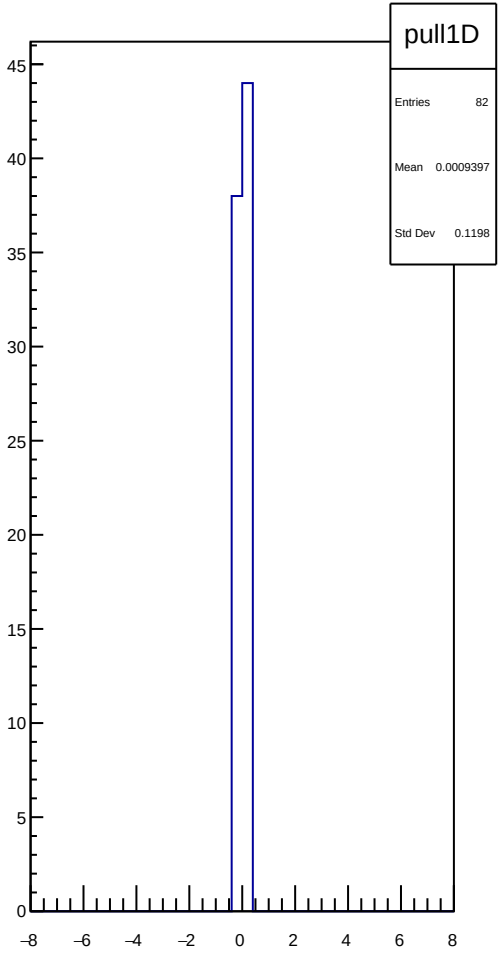

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.9 / 81
p0 20.8 ± 0.483
pull
Entries 82
Mean −316.7
Std Dev 360.9
pull1D
Entries 82
Mean −0.005749
Std Dev 0.1521

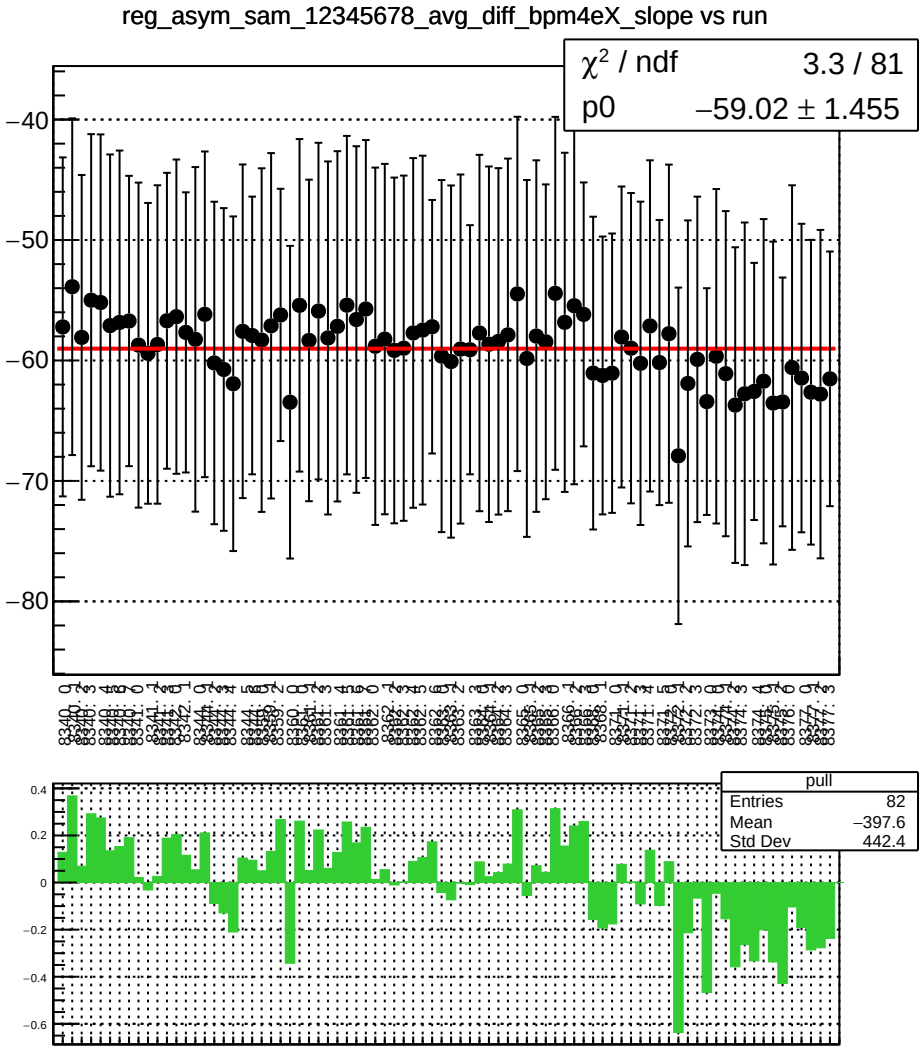

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9647 / 81
p0 −4.953 ± 0.865
pull
Entries 82
Mean 4683
Std Dev 4676
pull1D
Entries 82
Mean 6.455e−05
Std Dev 0.1085

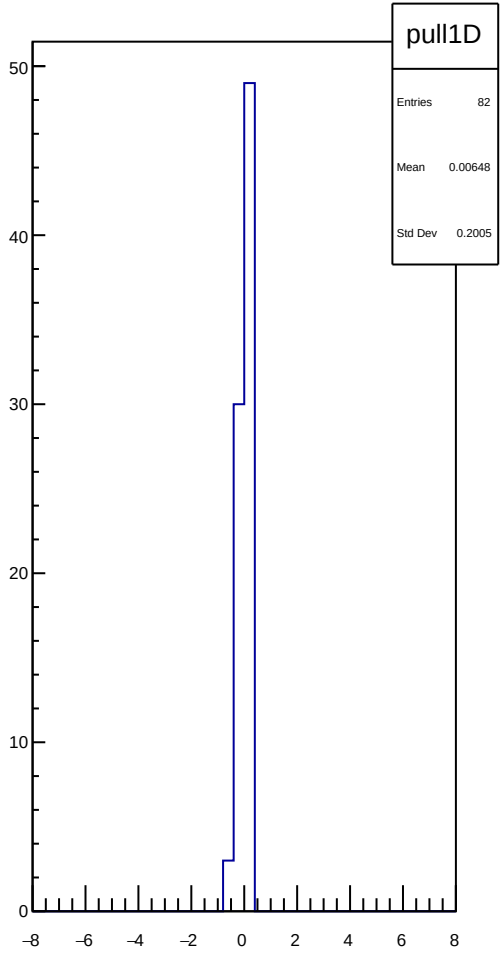

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.9571 / 81
p0 −0.5188 ± 0.05186
pull
Entries 82
Mean 224.9
Std Dev 165.2
pull1D
Entries 82
Mean −0.004571
Std Dev 0.1079

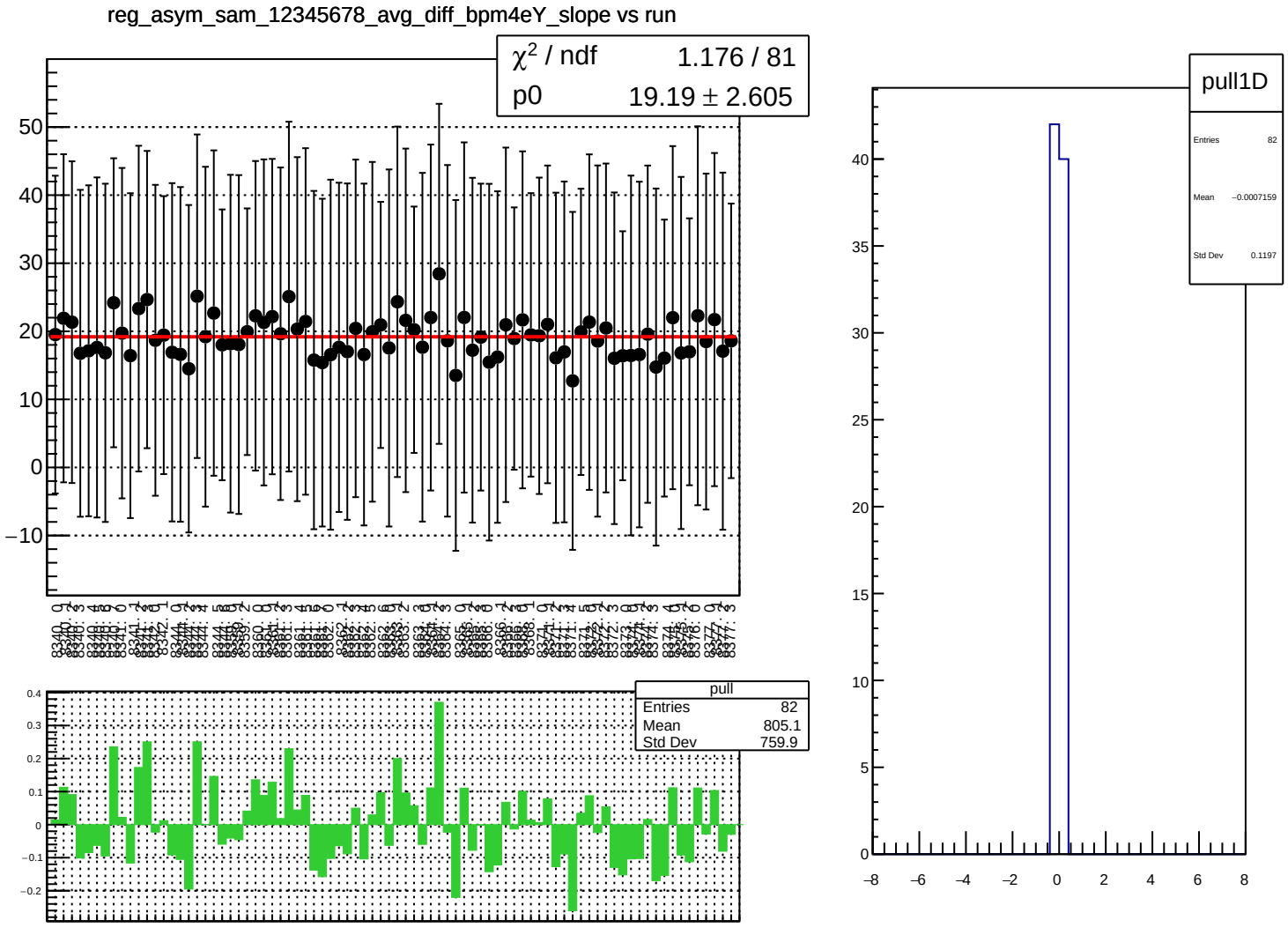

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 4.758 / 81
p0 −2.592 ± 1.269
pull
Entries 82
Mean −237.2
Std Dev 283.7
pull1D
Entries 82
Mean −0.0133
Std Dev 0.2405

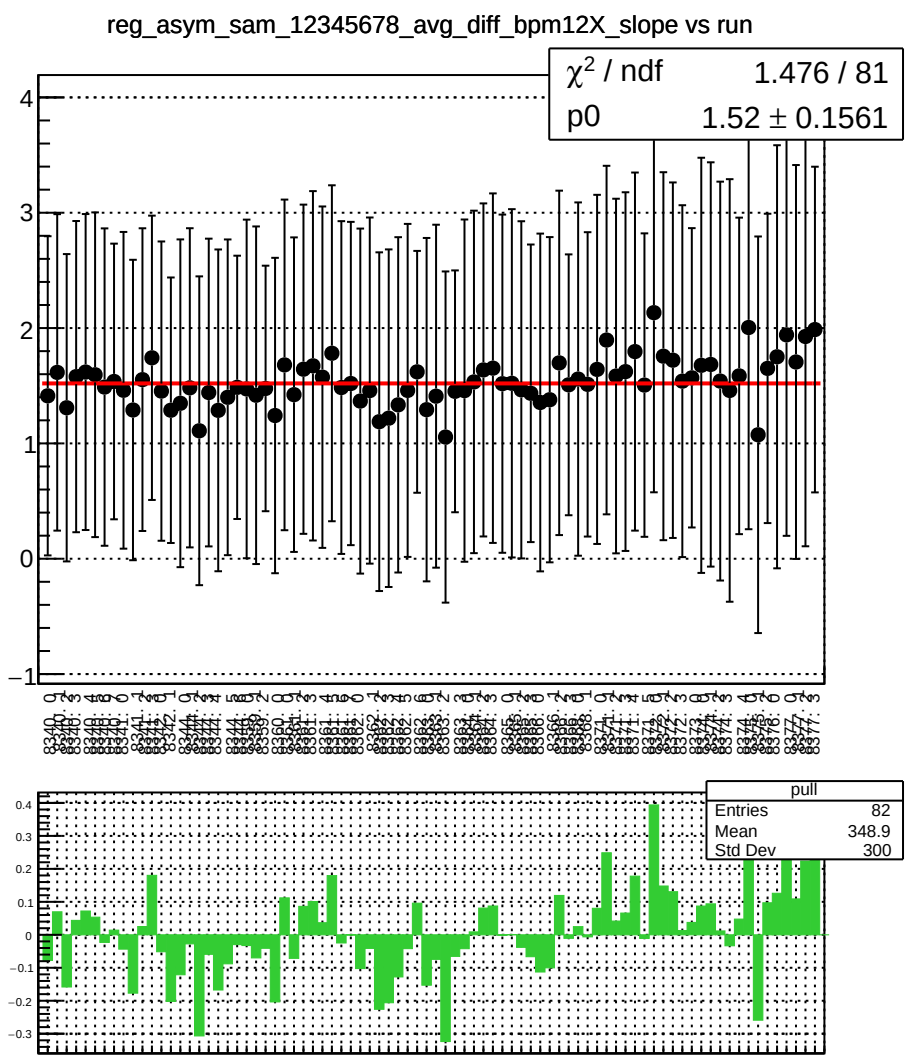

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.177 / 81
p0 15.27 ± 2.523
pull
Entries 82
Mean 260
Std Dev 227.7

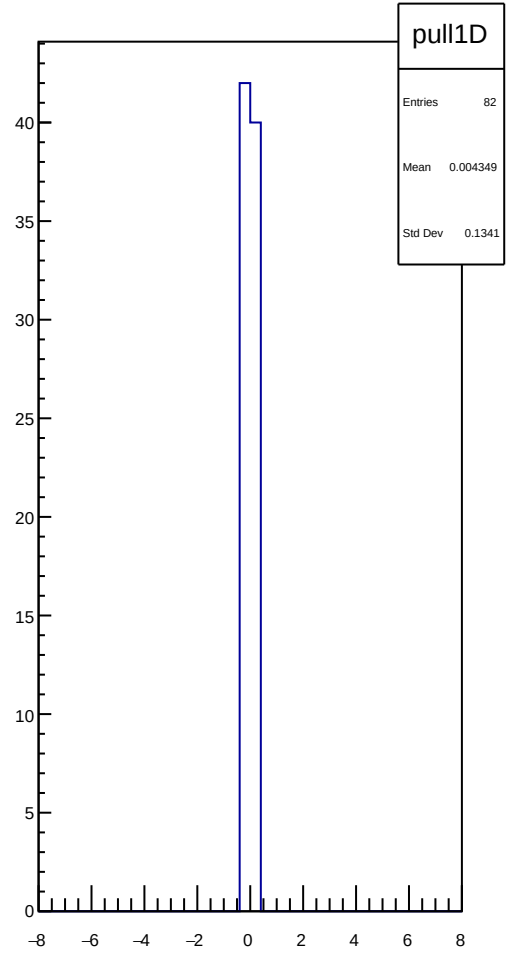

pull1D
Entries 82
Mean 0.0009397
Std Dev 0.1198

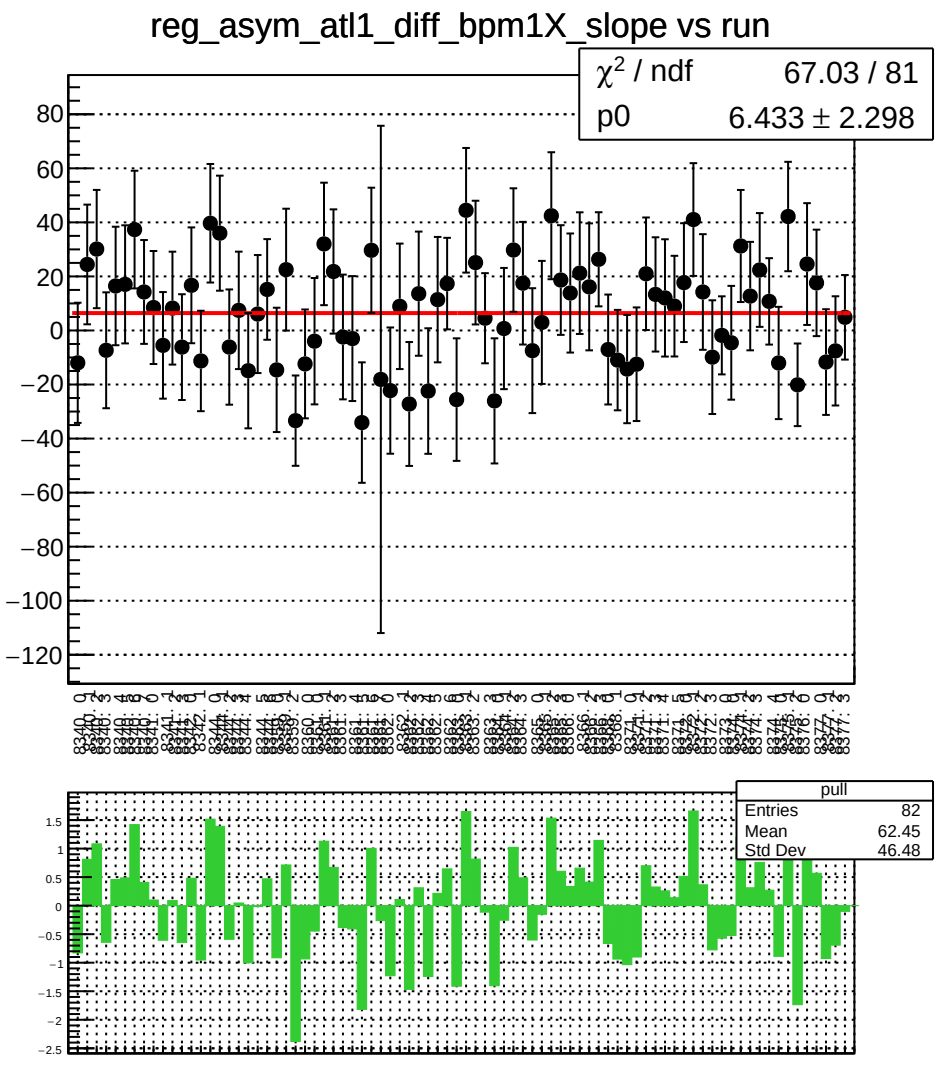

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.3 / 81
p0 −59.02 ± 1.455
−40
−50
−60
−70
−80
pull
Entries 82
Mean −397.6
Std Dev 442.4
0.4
0.2
0
−0.2
−0.4
−0.6

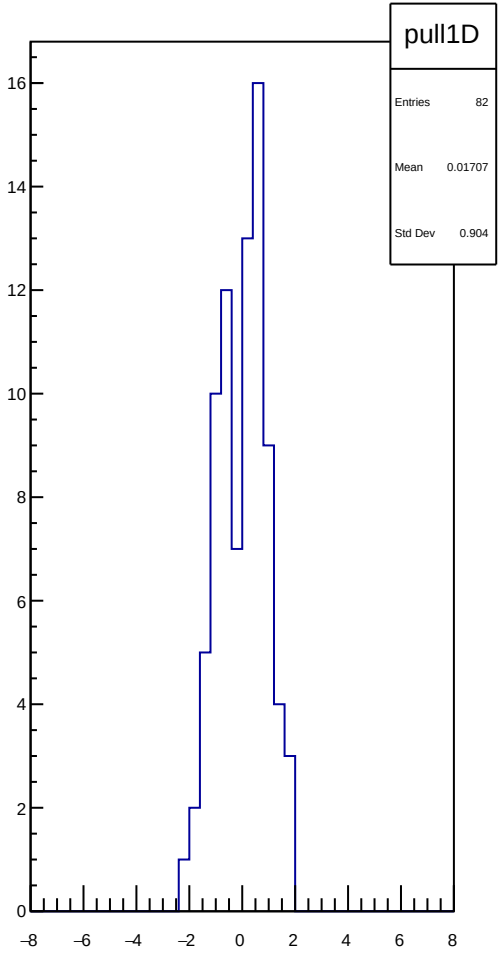

pull1D
Entries 82
Mean 0.00648
Std Dev 0.2005
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

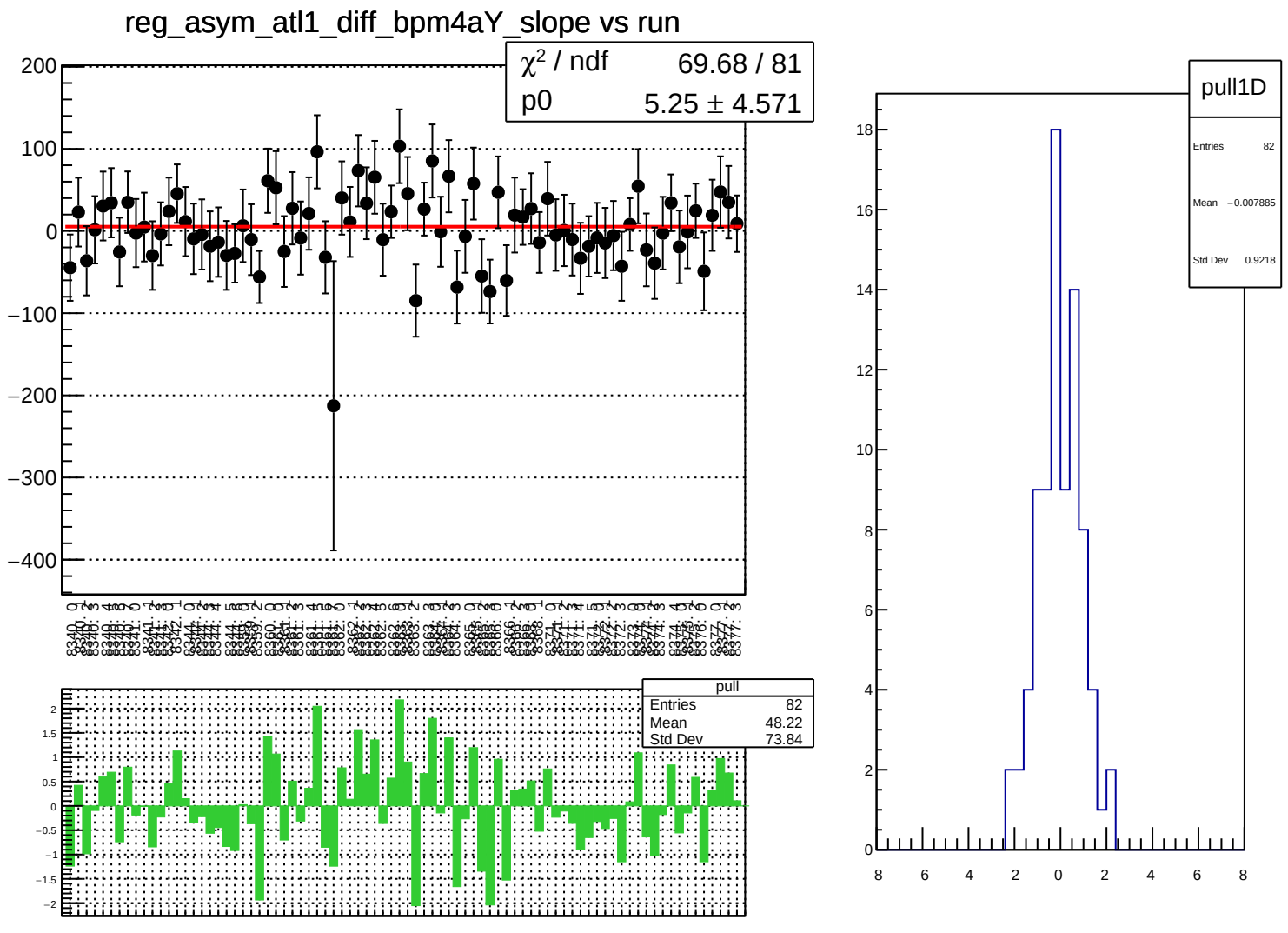

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 1.176 / 81
p0 19.19 ± 2.605
pull
Entries 82
Mean 805.1
Std Dev 759.9
pull1D
Entries 82
Mean −0.0007159
Std Dev 0.1197

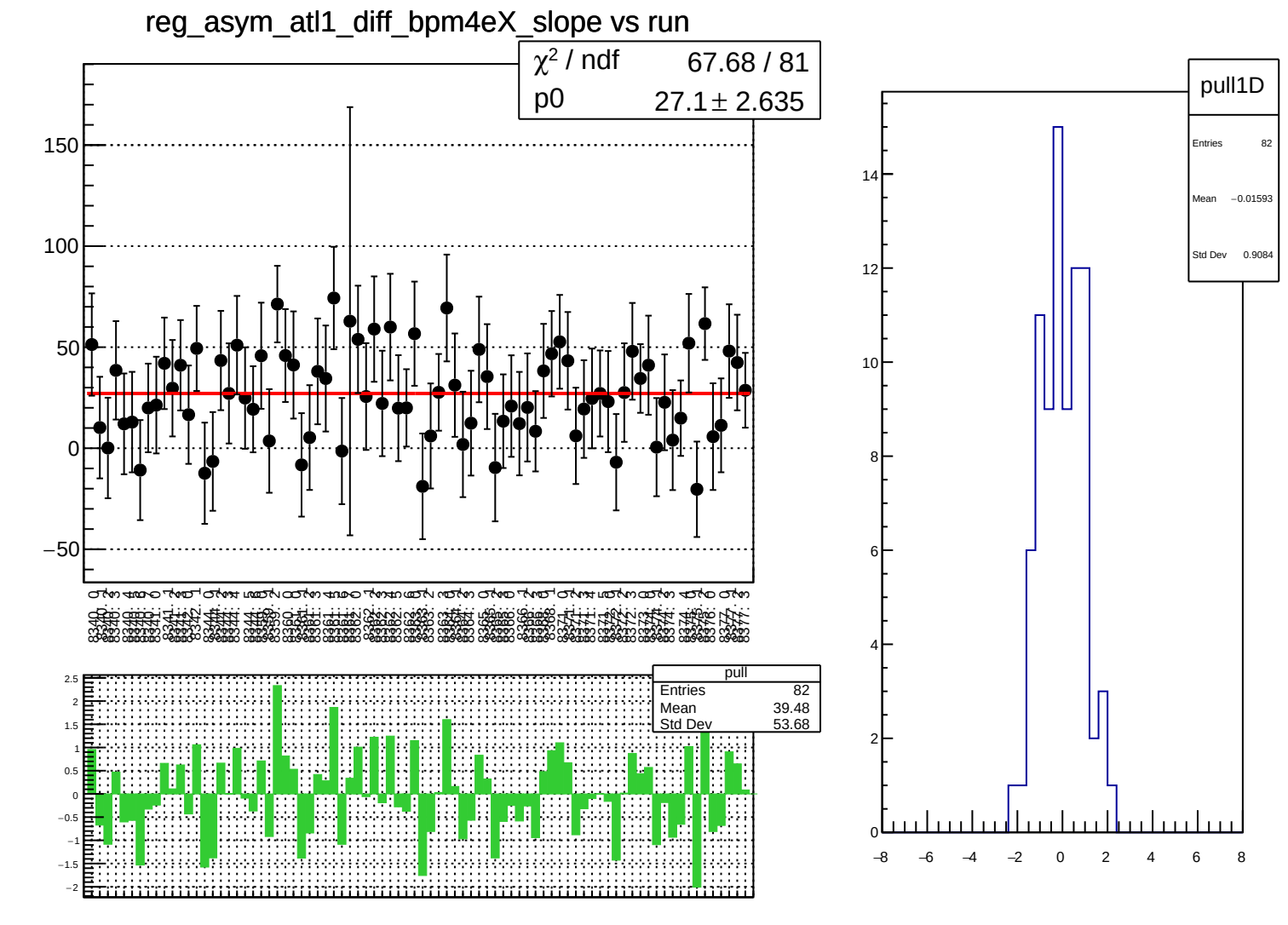

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 1.476 / 81
p0 1.52 ± 0.1561
pull
Entries 82
Mean 348.9
Std Dev 300

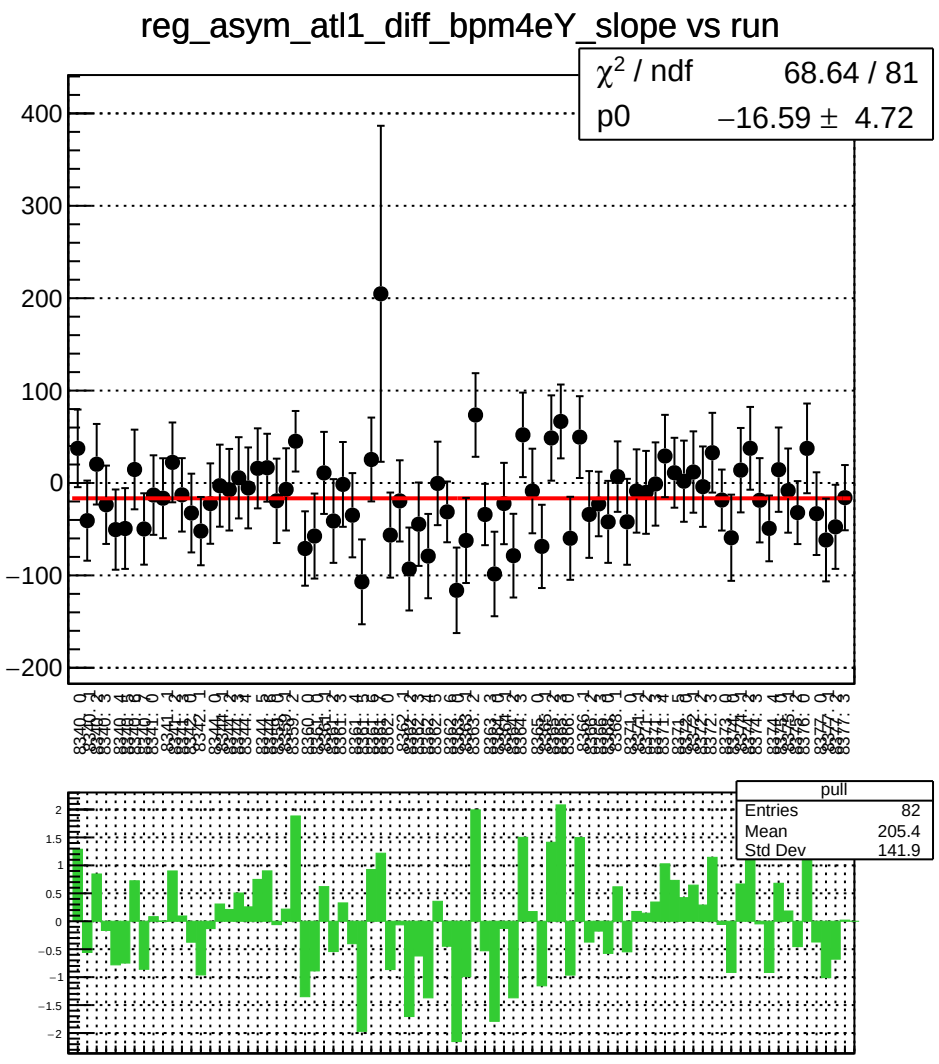

pull1D
Entries 82
Mean 0.004349
Std Dev 0.1341

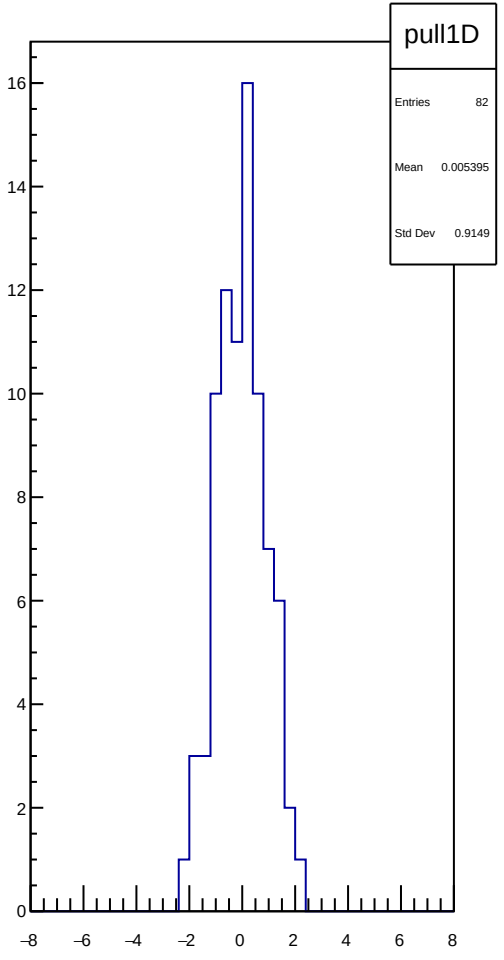

reg_asym_atl1_diff_bpm1X_slope vs run
χ^2 / ndf 67.03 / 81
p0 6.433 ± 2.298
pull
Entries 82
Mean 62.45
Std Dev 46.48

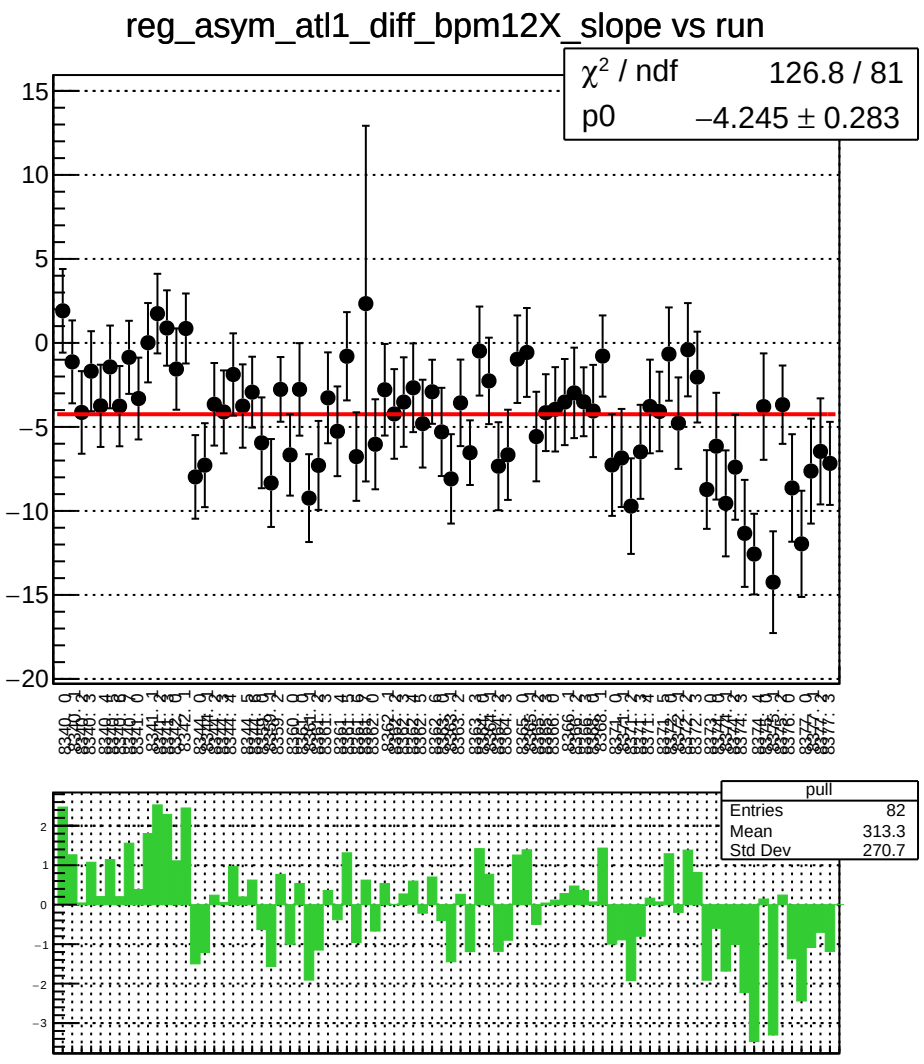

pull1D
Entries 82
Mean 0.01707
Std Dev 0.904

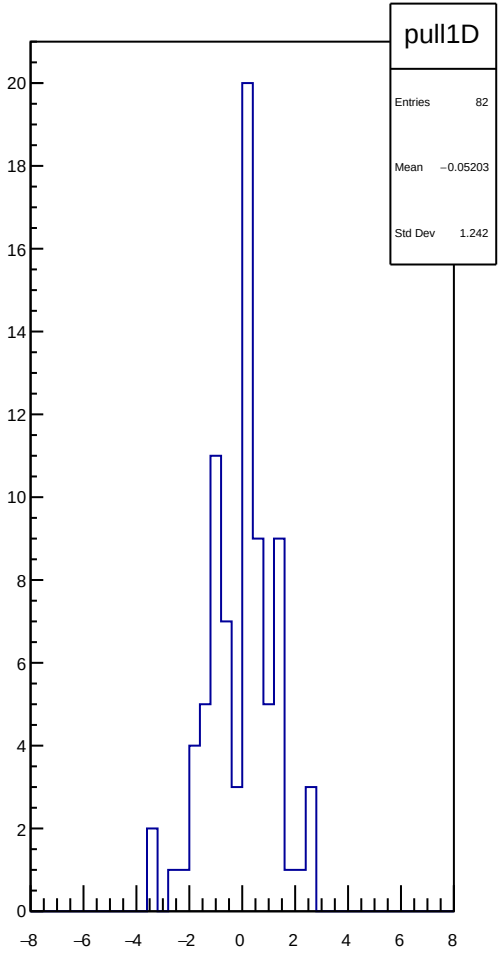

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 69.68 / 81
p0 5.25 ± 4.571
200
100
0
−100
−200
−300
−400
pull
Entries 82
Mean 48.22
Std Dev 73.84
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.007885
Std Dev 0.9218
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

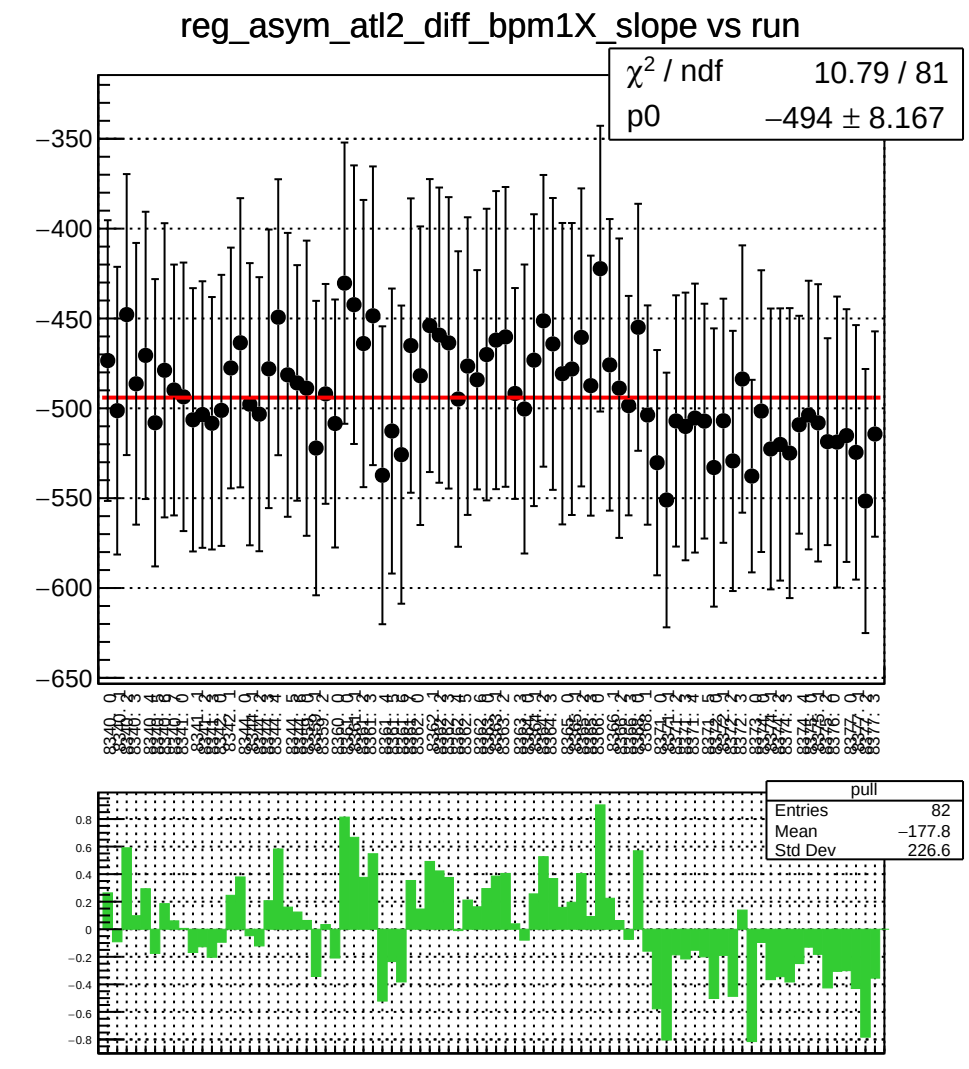

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 67.68 / 81
p0 27.1 ± 2.635
150
100
50
0
−50
pull
Entries 82
Mean 39.48
Std Dev 53.68
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.01593
Std Dev 0.9084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

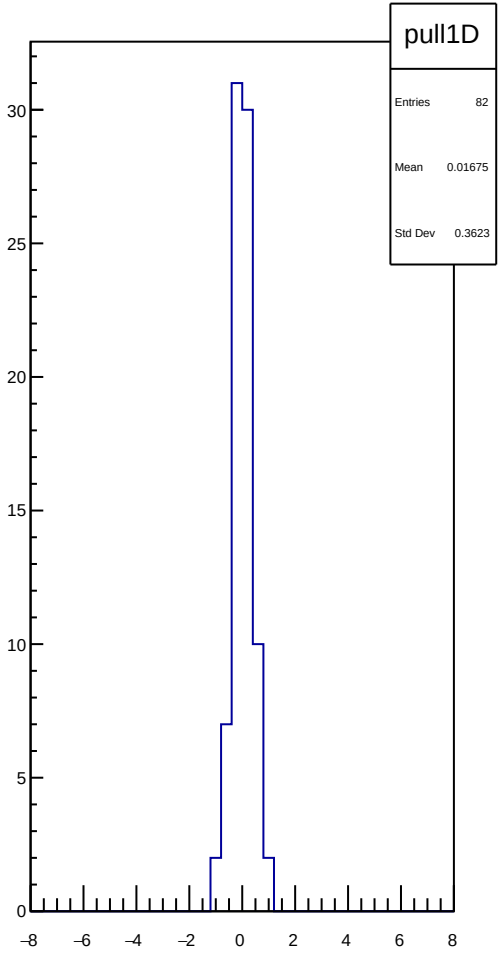

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 68.64 / 81
p0 −16.59 ± 4.72
pull
Entries 82
Mean 205.4
Std Dev 141.9

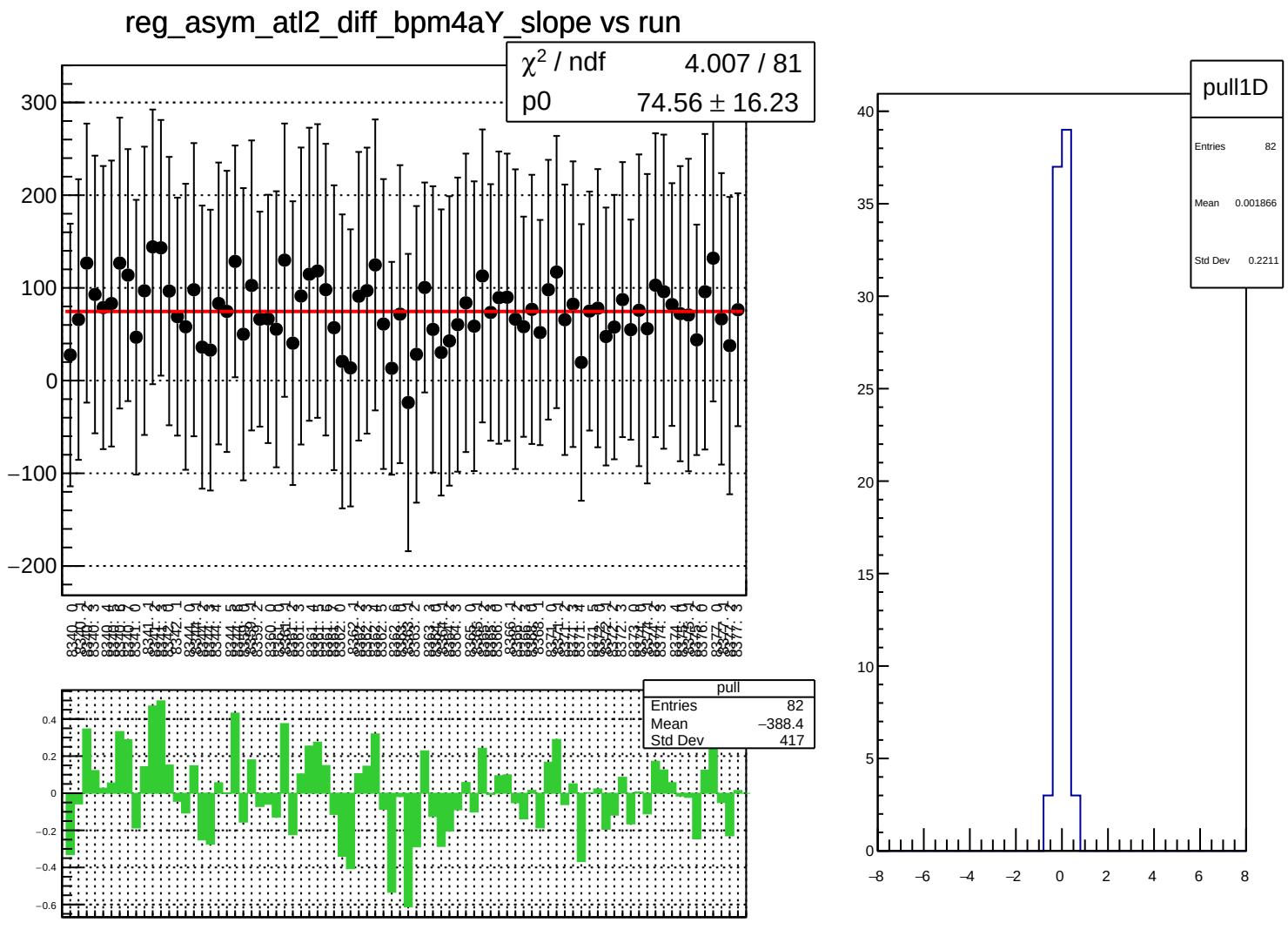

pull1D
Entries 82
Mean 0.005395
Std Dev 0.9149

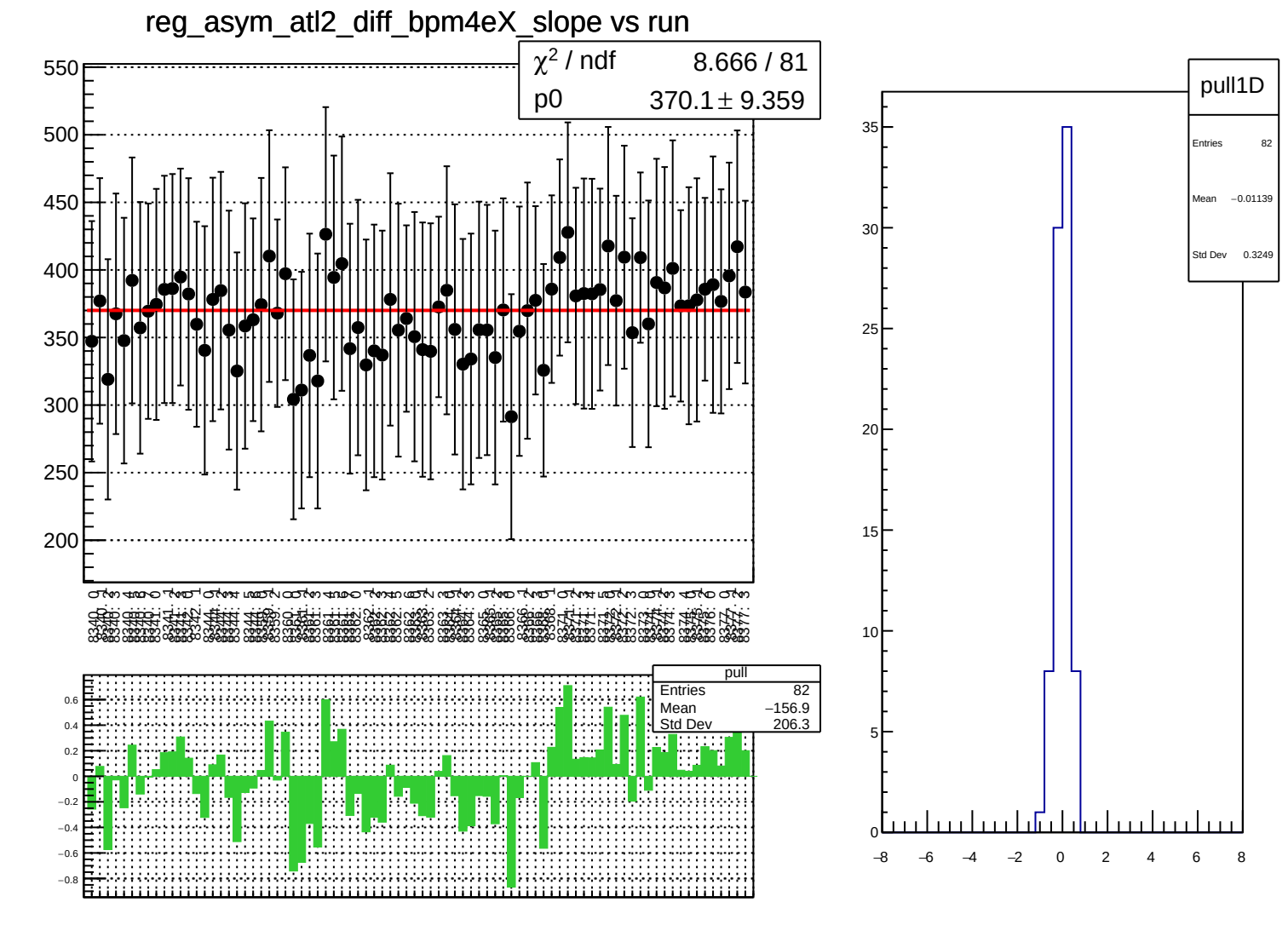

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 126.8 / 81
p0 −4.245 ± 0.283
pull
Entries 82
Mean 313.3
Std Dev 270.7

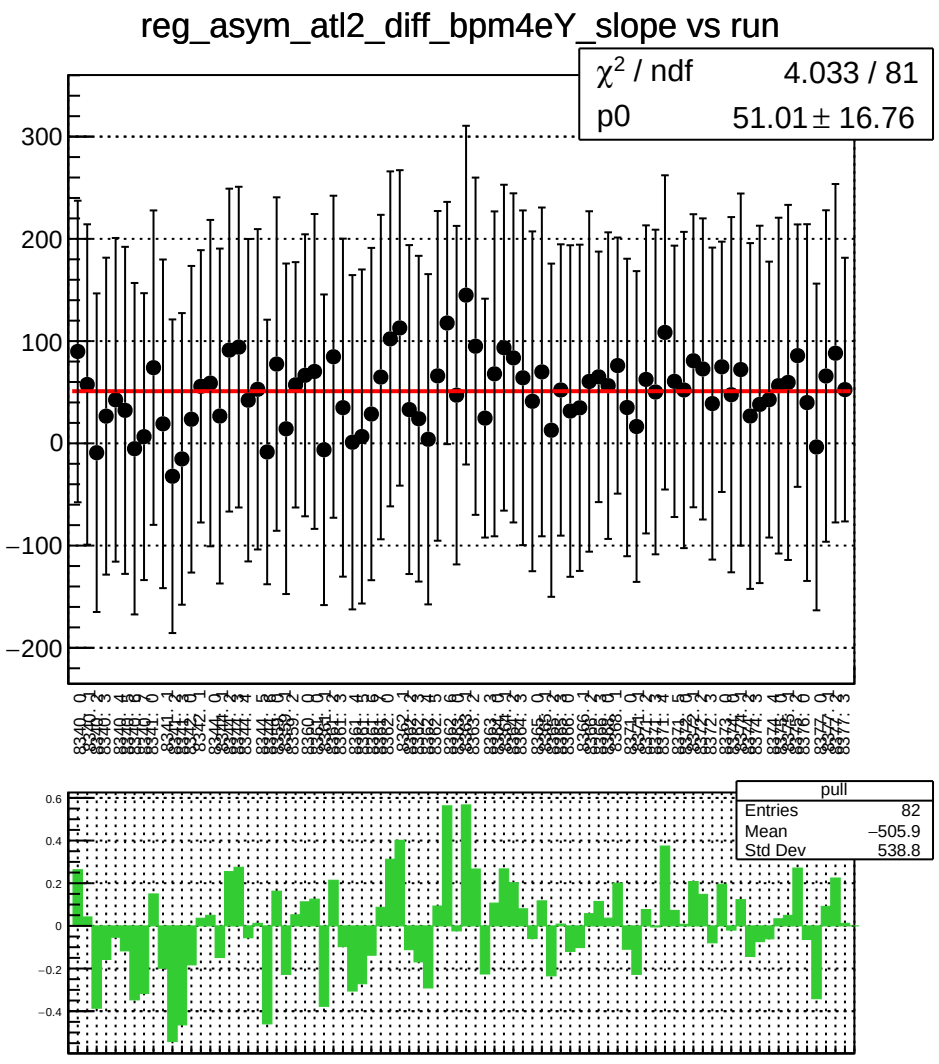

pull1D
Entries 82
Mean −0.05203
Std Dev 1.242

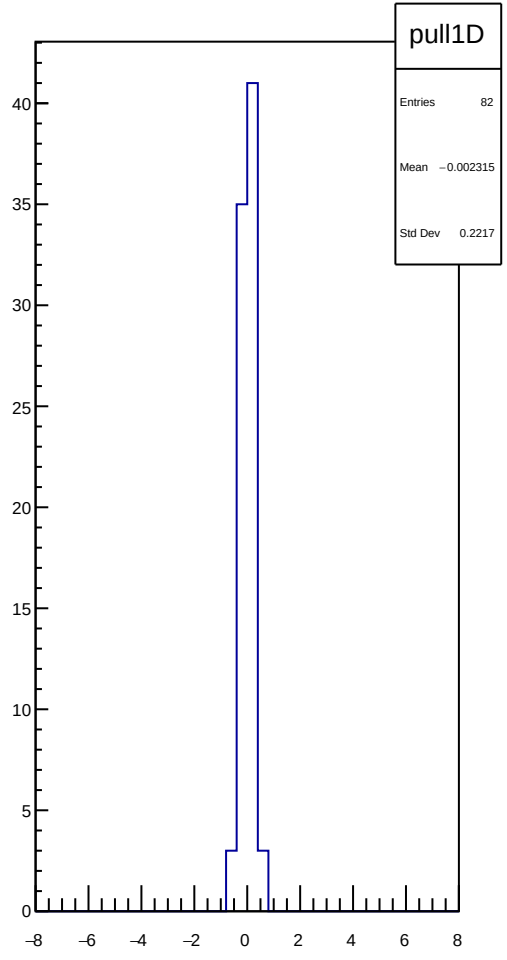

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 10.79 / 81
p0 −494 ± 8.167
pull
Entries 82
Mean −177.8
Std Dev 226.6

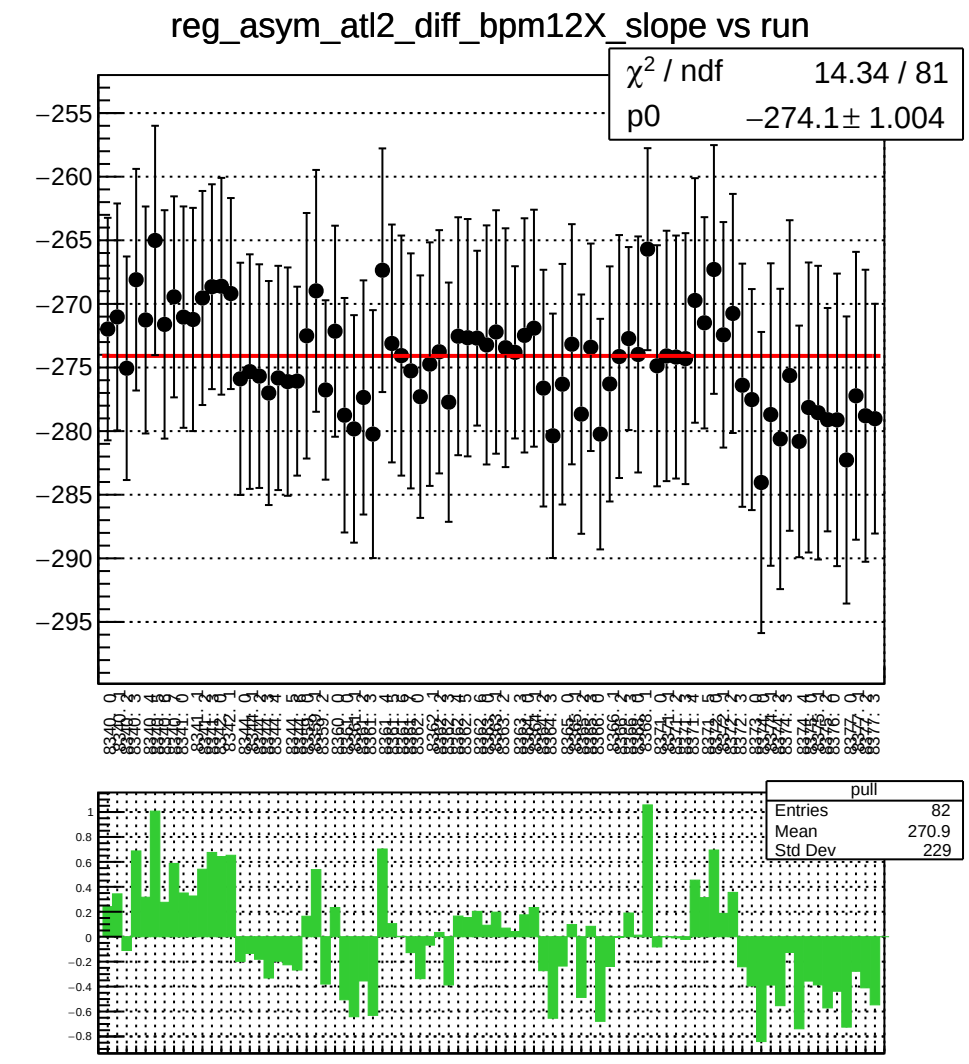

pull1D
Entries 82
Mean 0.01675
Std Dev 0.3623

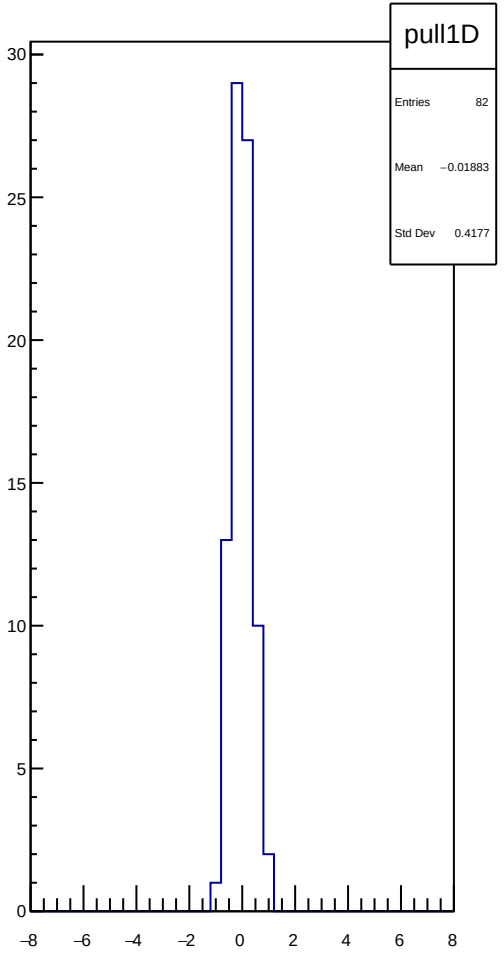

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 4.007 / 81
p0 74.56 ± 16.23
pull
Entries 82
Mean −388.4
Std Dev 417
pull1D
Entries 82
Mean 0.001866
Std Dev 0.2211

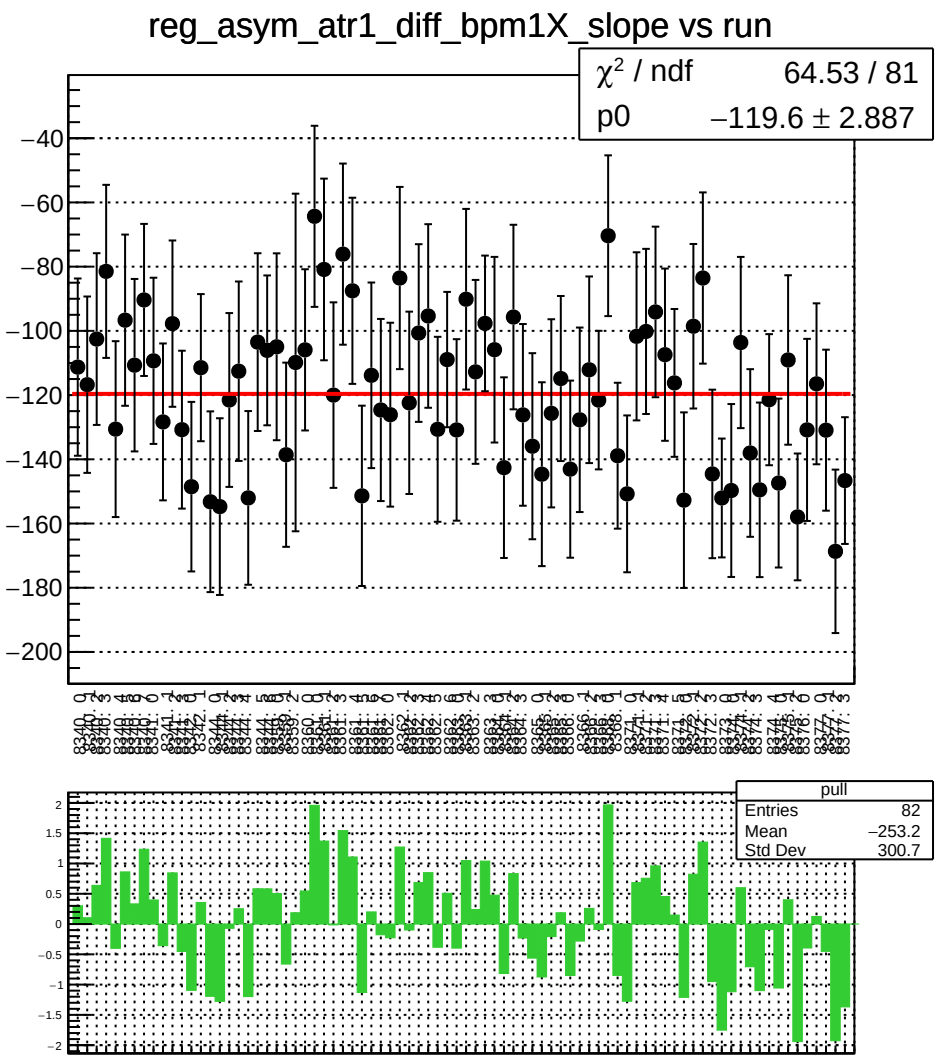

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 8.666 / 81
p0 370.1 ± 9.359
pull
Entries 82
Mean −156.9
Std Dev 206.3
pull1D
Entries 82
Mean −0.01139
Std Dev 0.3249

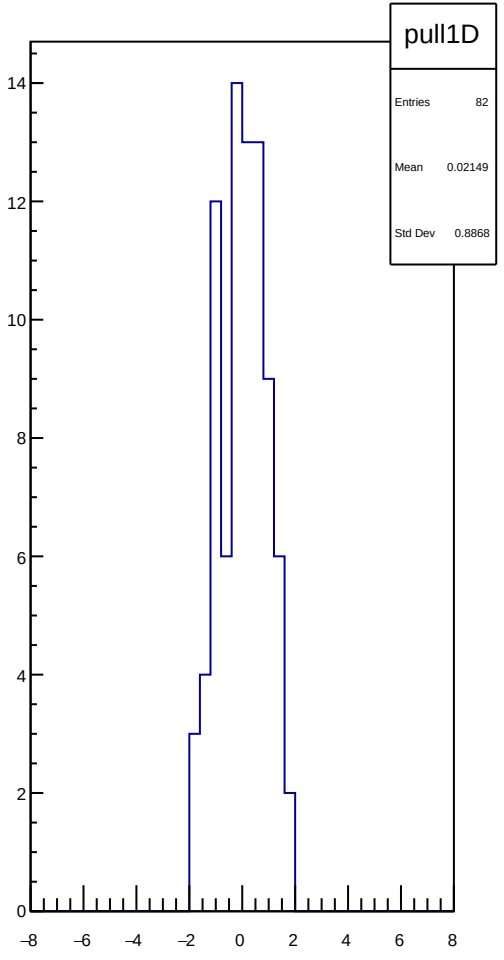

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 4.033 / 81
p0 51.01 ± 16.76
300
200
100
0
−100
−200
pull
Entries 82
Mean −505.9
Std Dev 538.8
0.6
0.4
0.2
0
−0.2
−0.4

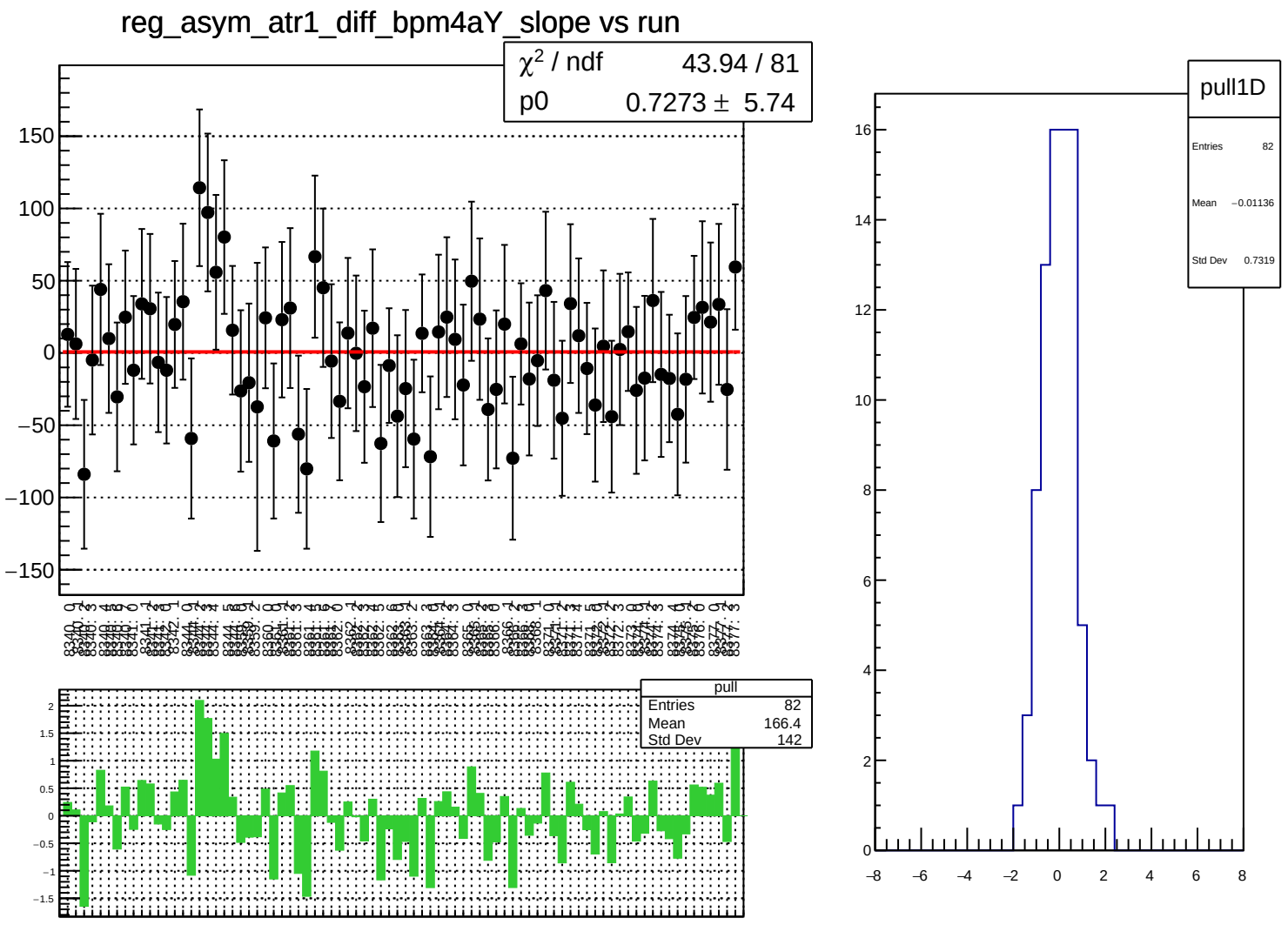

pull1D
Entries 82
Mean −0.002315
Std Dev 0.2217
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

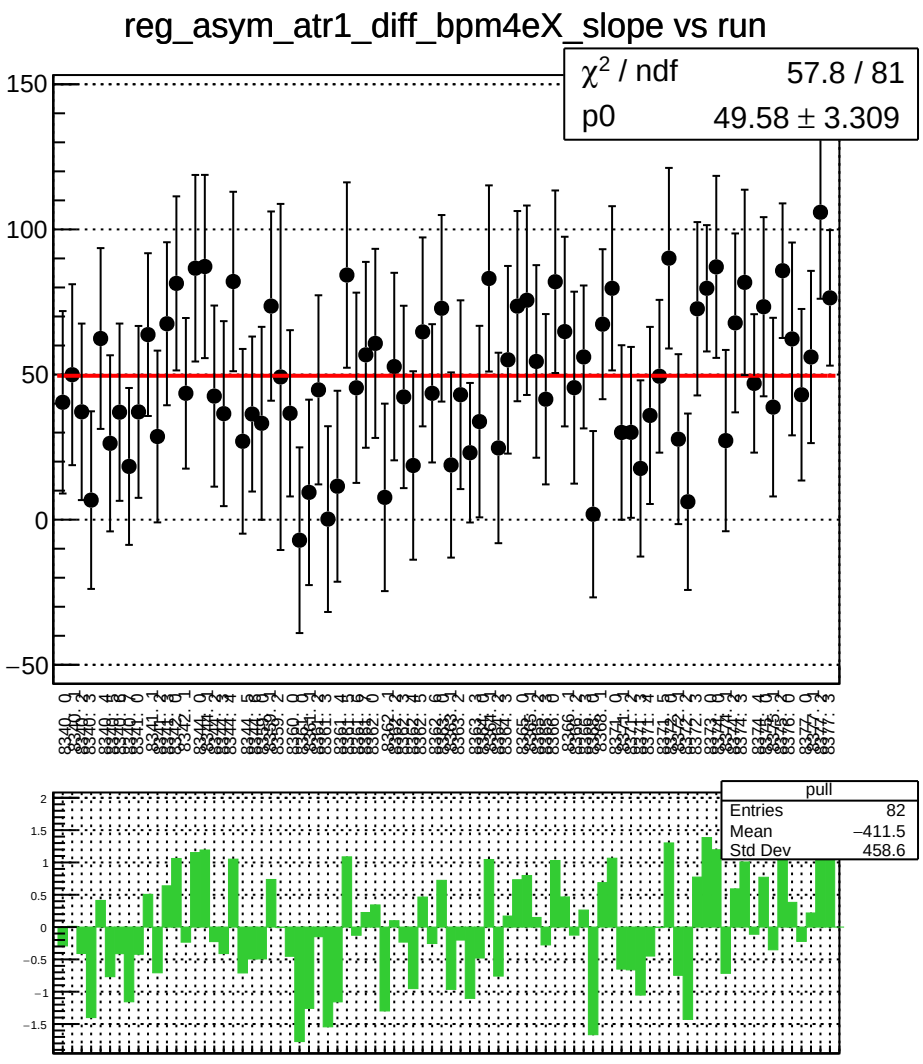

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 14.34 / 81
p0 −274.1± 1.004
pull
Entries 82
Mean 270.9
Std Dev 229

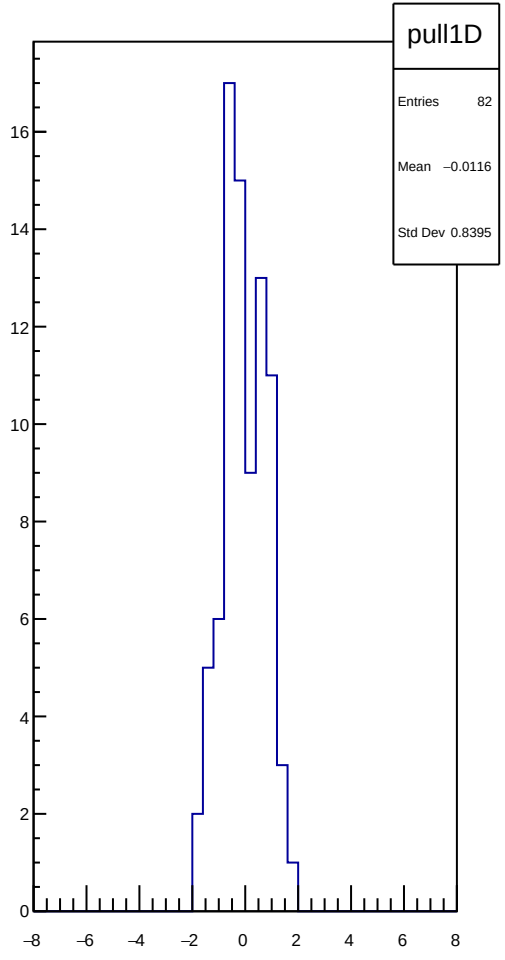

pull1D
Entries 82
Mean −0.01883
Std Dev 0.4177

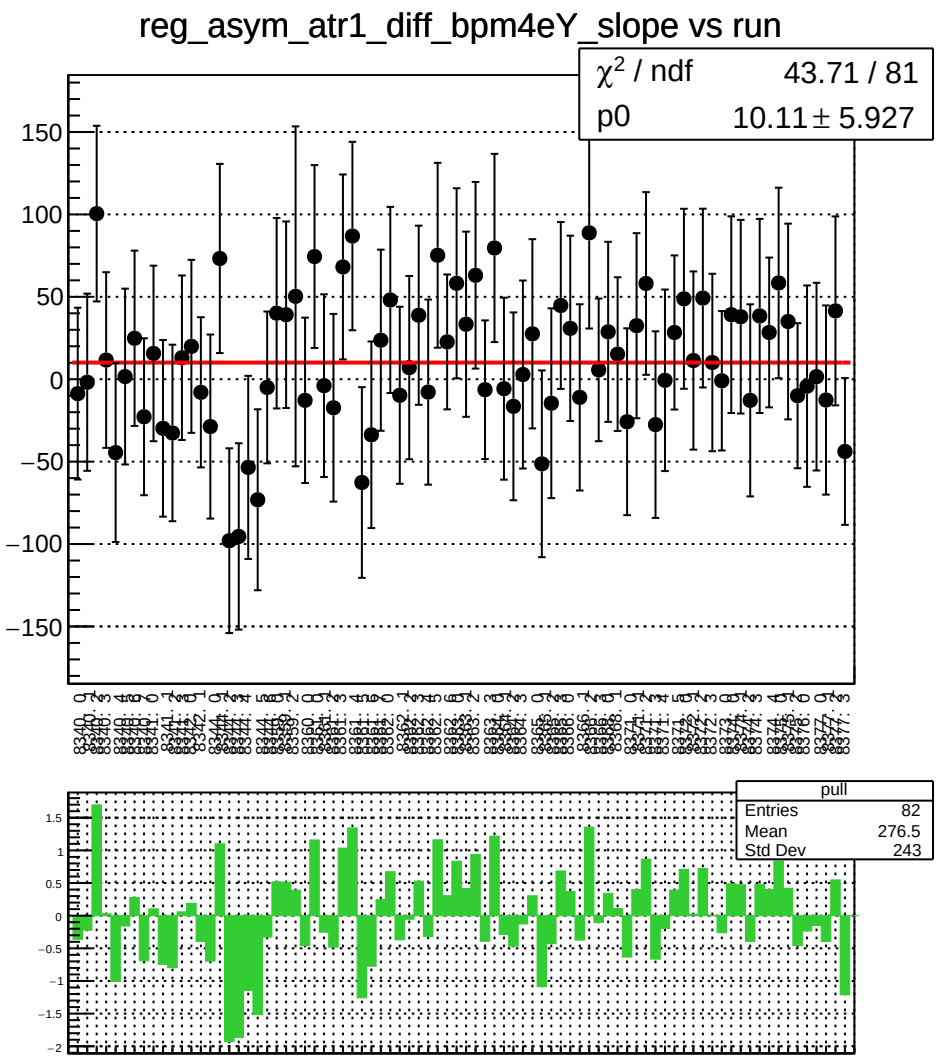

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 64.53 / 81
p0 −119.6 ± 2.887
pull
Entries 82
Mean −253.2
Std Dev 300.7

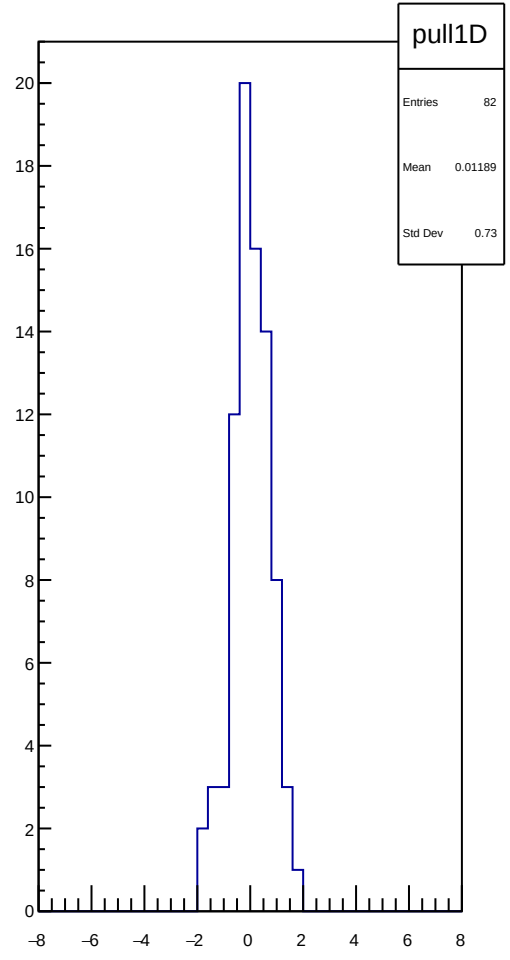

pull1D
Entries 82
Mean 0.02149
Std Dev 0.8868

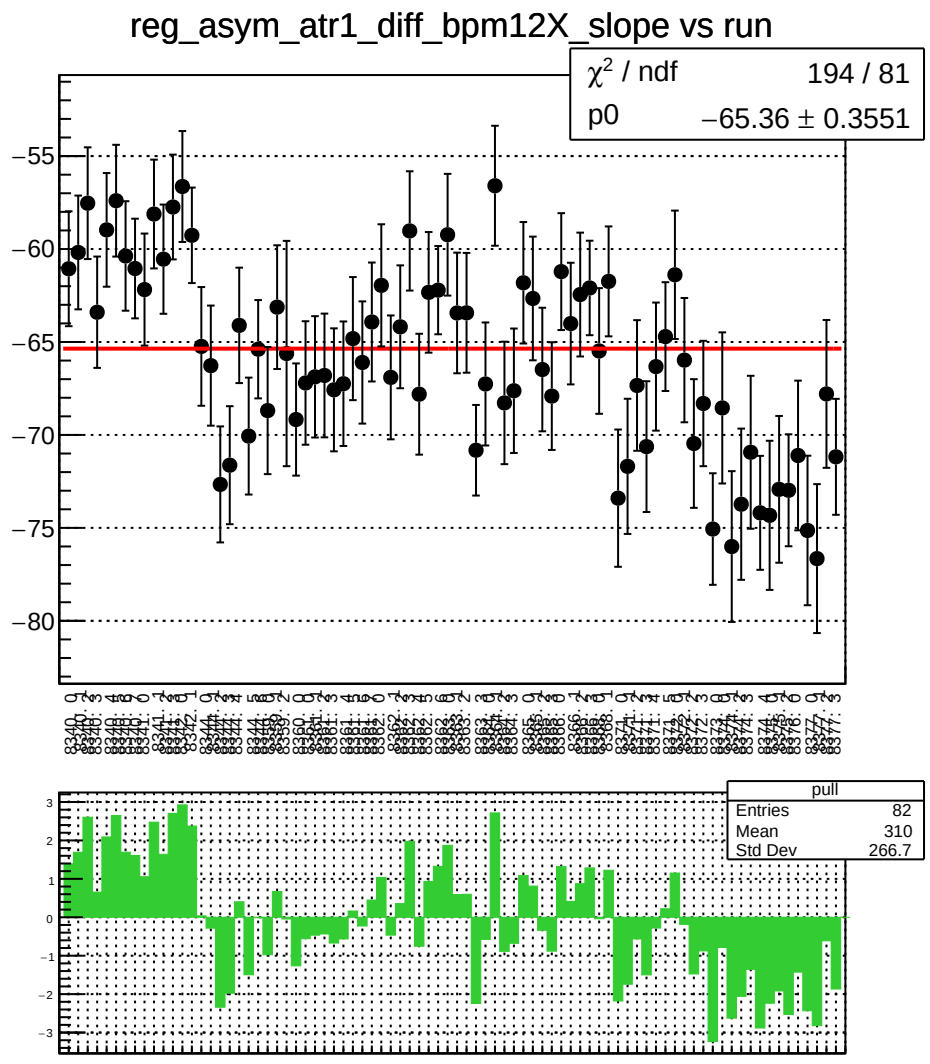

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 43.94 / 81
p0 0.7273 ± 5.74
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 166.4
Std Dev 142
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean −0.01136
Std Dev 0.7319
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

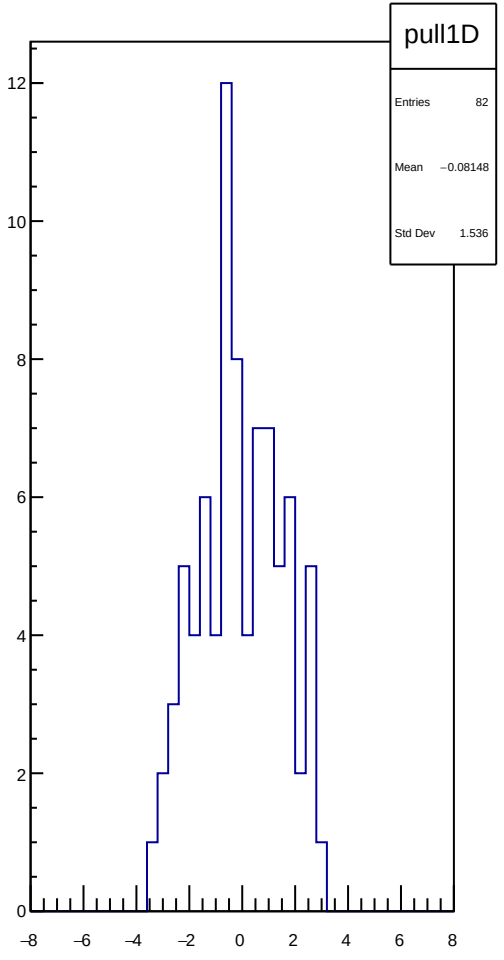

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 57.8 / 81
p0 49.58 ± 3.309
150
100
50
0
−50
pull
Entries 82
Mean −411.5
Std Dev 458.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

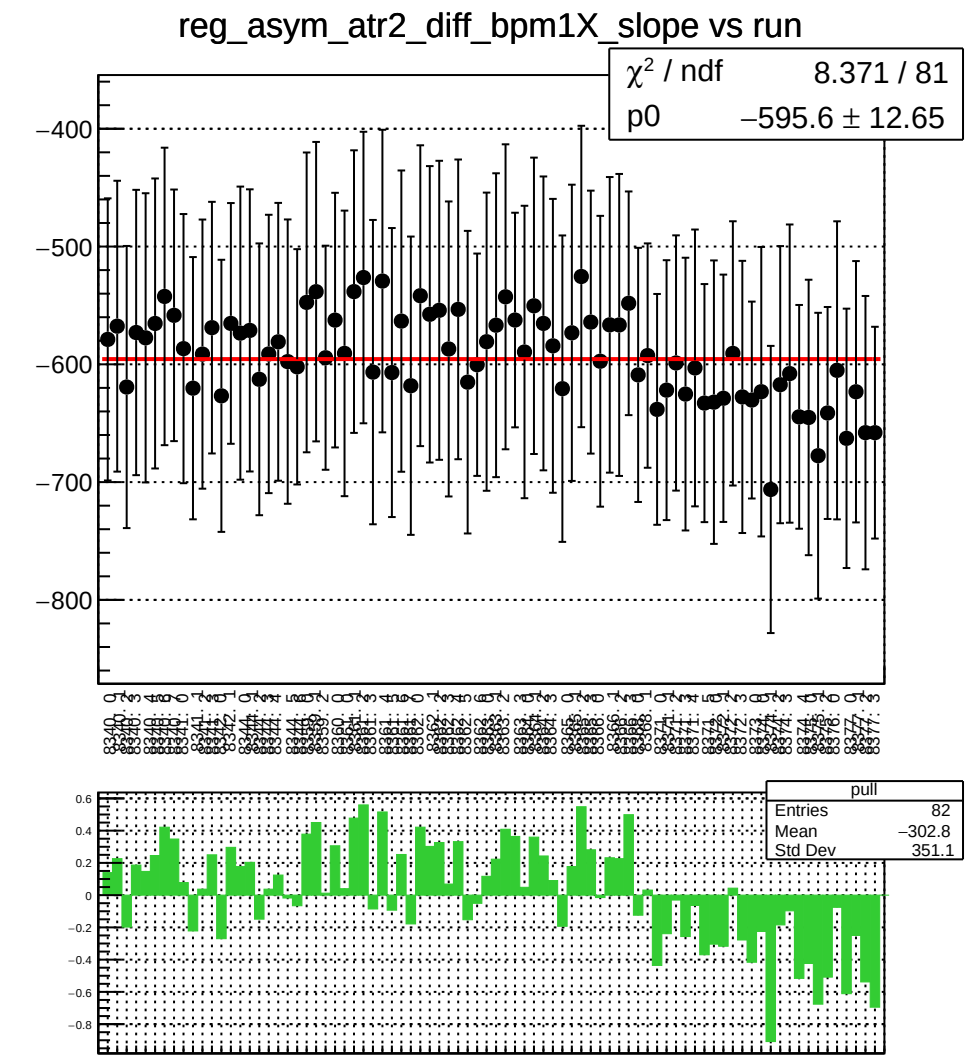

pull1D
Entries 82
Mean −0.0116
Std Dev 0.8395
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

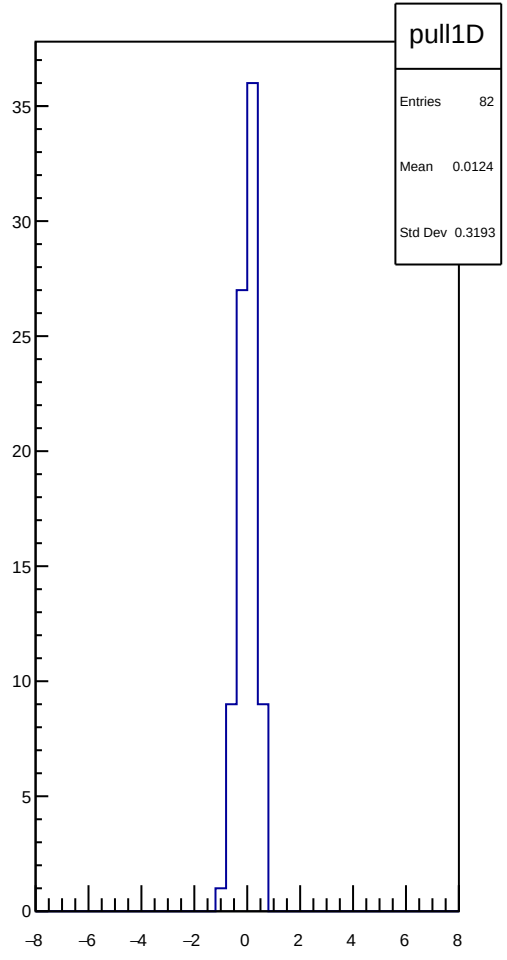

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 43.71 / 81
p0 10.11 ± 5.927
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 276.5
Std Dev 243
1.5
1
0.5
0
−0.5
−1
−1.5
−2

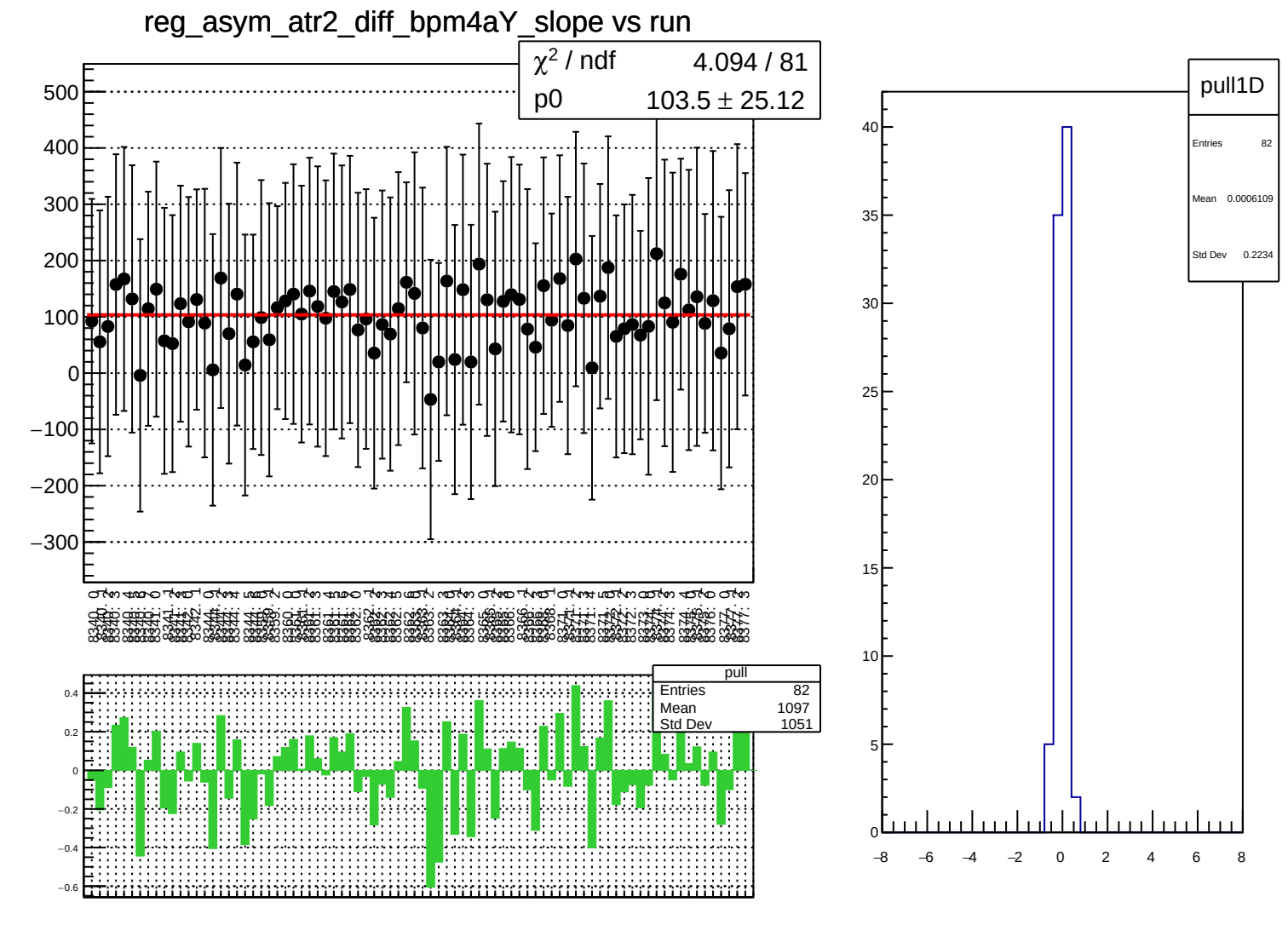

pull1D
Entries 82
Mean 0.01189
Std Dev 0.73
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

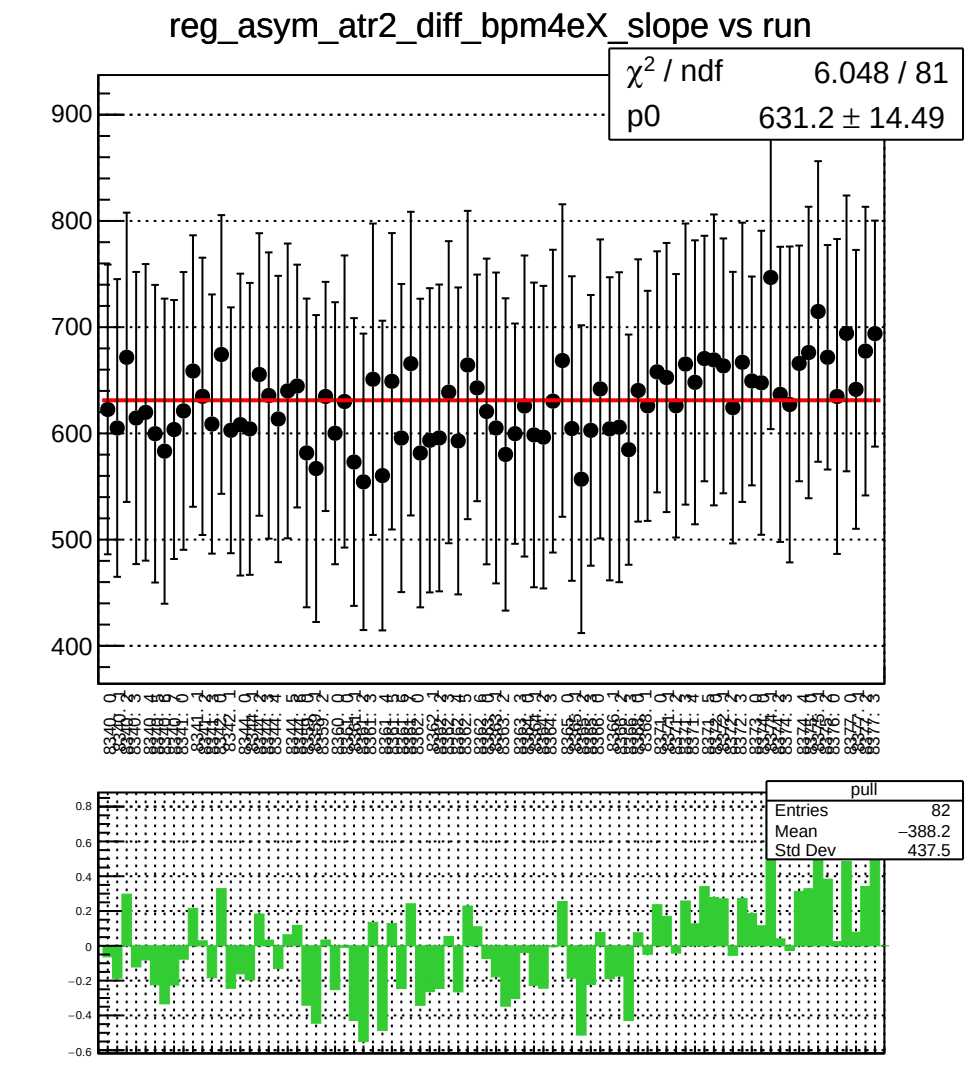

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 194 / 81
p0 −65.36 ± 0.3551
pull
Entries 82
Mean 310
Std Dev 266.7

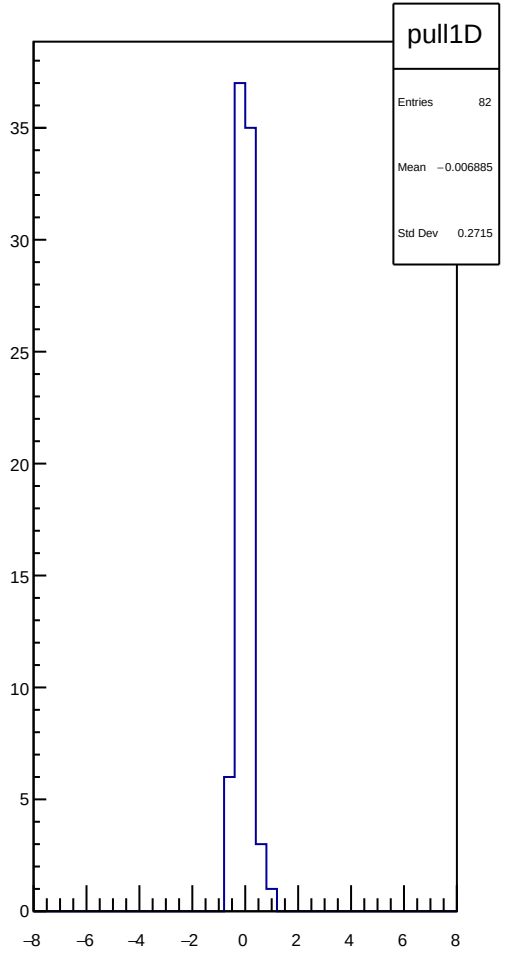

pull1D
Entries 82
Mean −0.08148
Std Dev 1.536

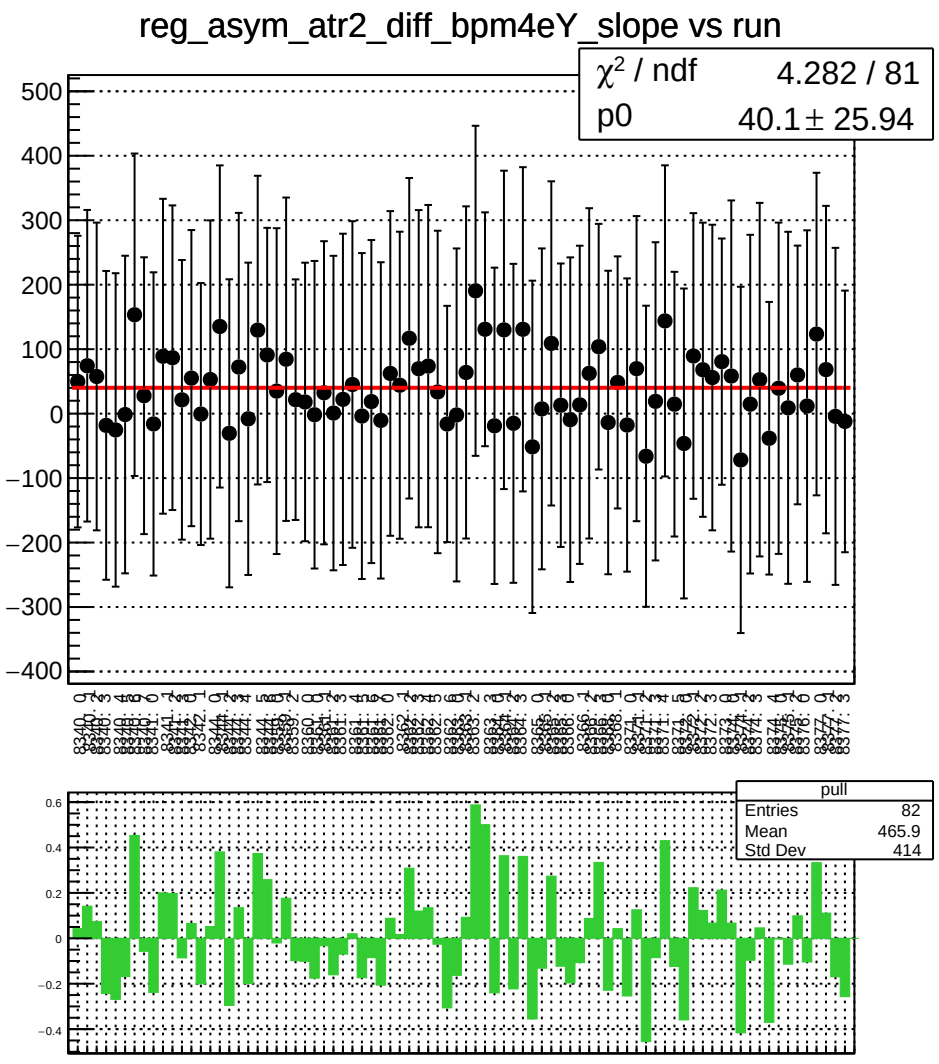

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 8.371 / 81
p0 −595.6 ± 12.65
−400
−500
−600
−700
−800
pull
Entries 82
Mean −302.8
Std Dev 351.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

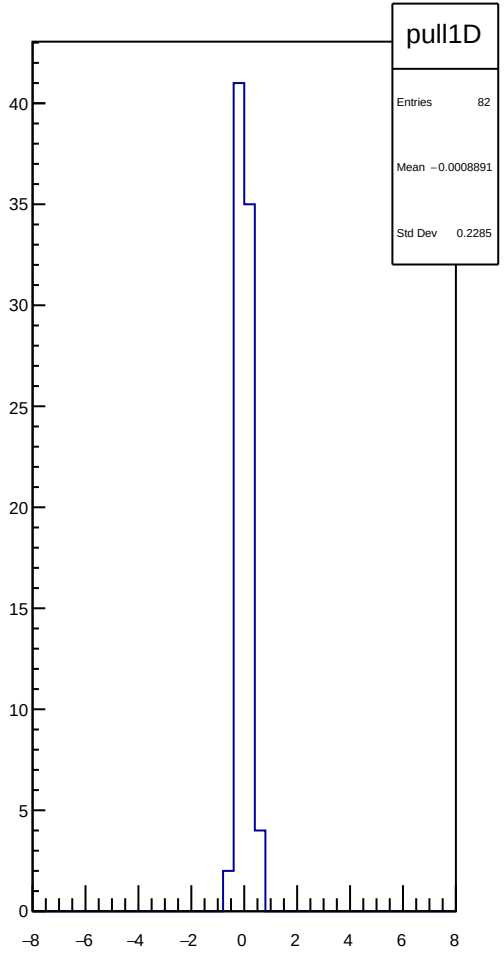

pull1D
Entries 82
Mean 0.0124
Std Dev 0.3193
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

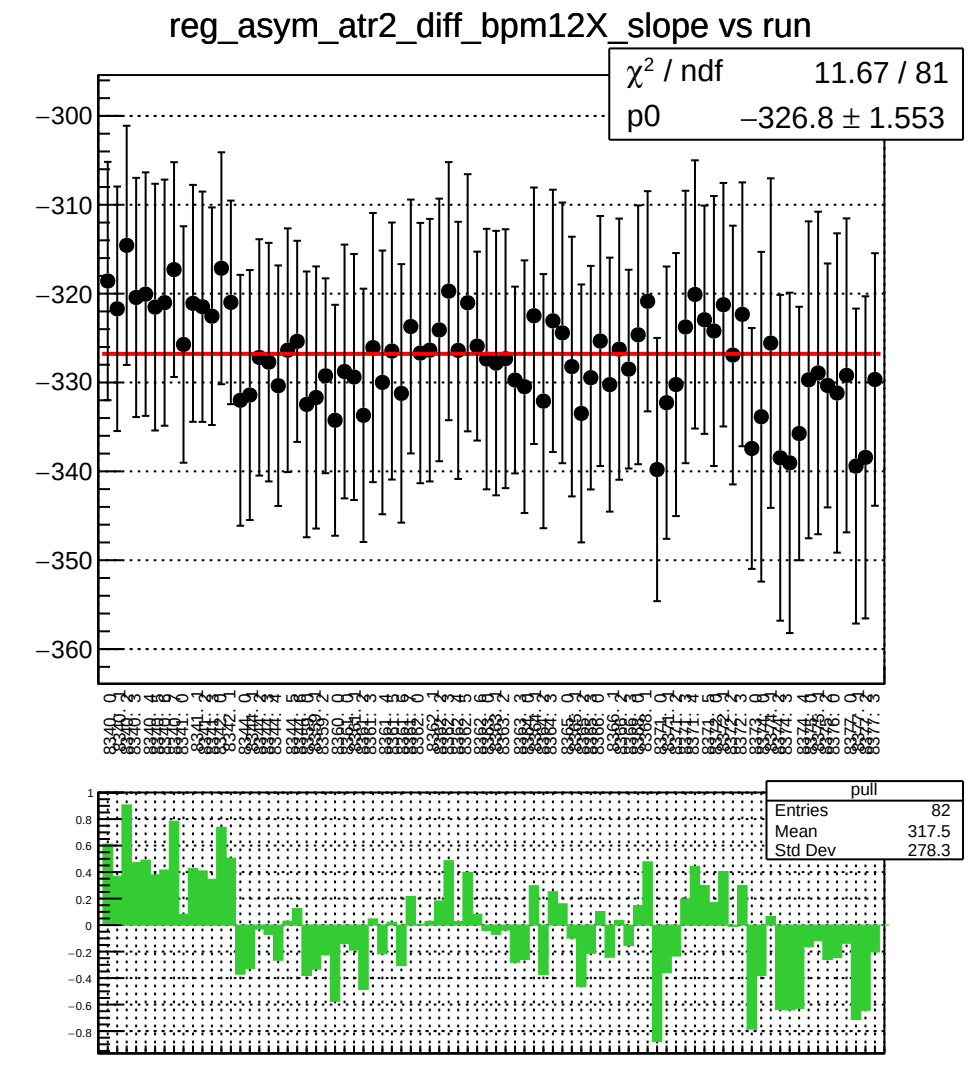

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 4.094 / 81
p0 103.5 ± 25.12
pull
Entries 82
Mean 1097
Std Dev 1051
pull1D
Entries 82
Mean 0.0006109
Std Dev 0.2234

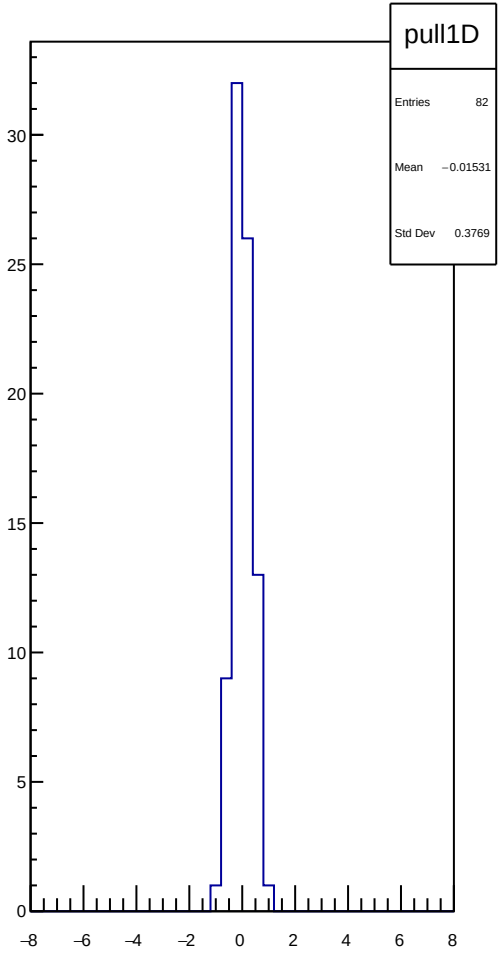

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 6.048 / 81
p0 631.2 ± 14.49
900
800
700
600
500
400
pull
Entries 82
Mean −388.2
Std Dev 437.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

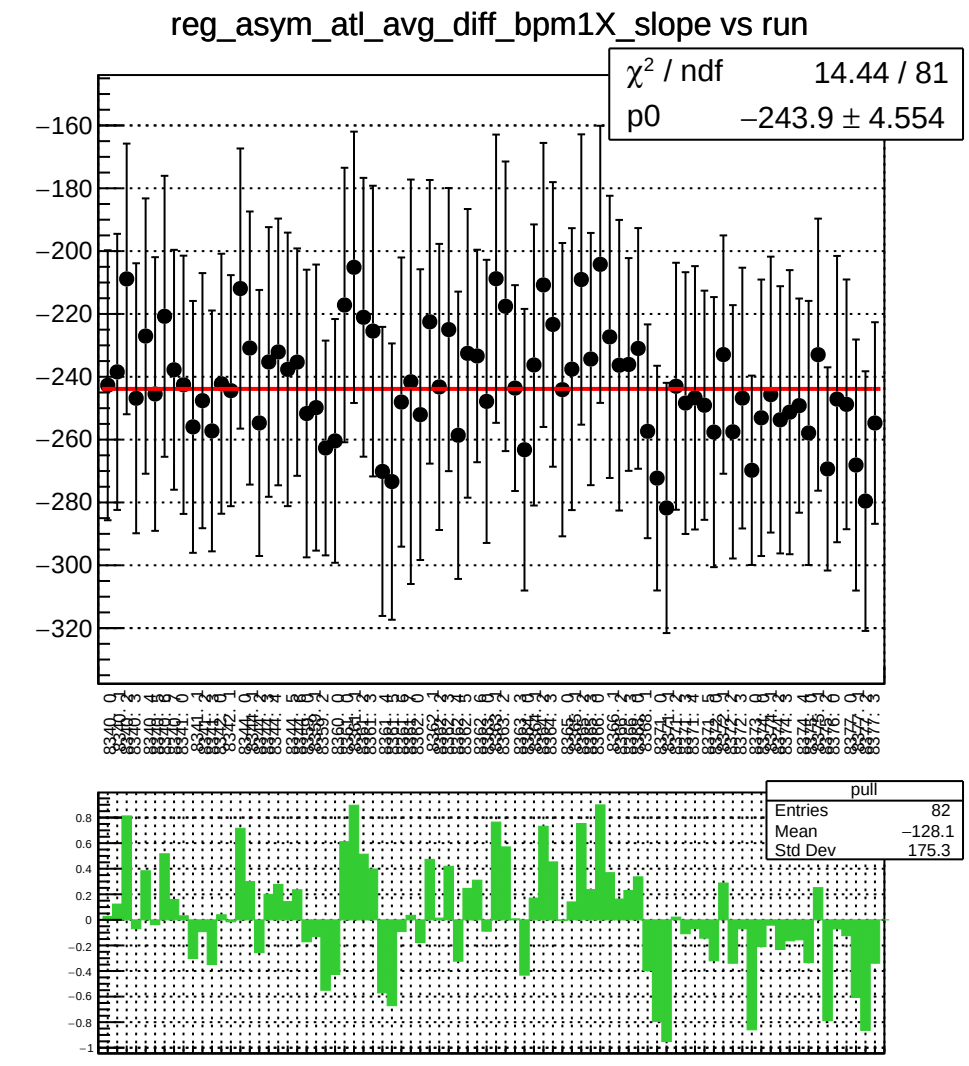

pull1D
Entries 82
Mean −0.006885
Std Dev 0.2715
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

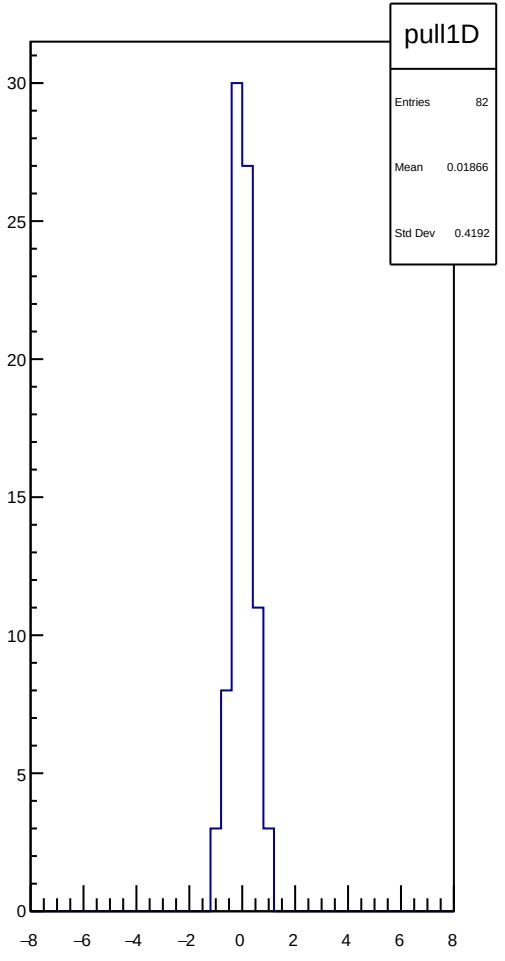

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 4.282 / 81
p0 40.1 ± 25.94
pull
Entries 82
Mean 465.9
Std Dev 414

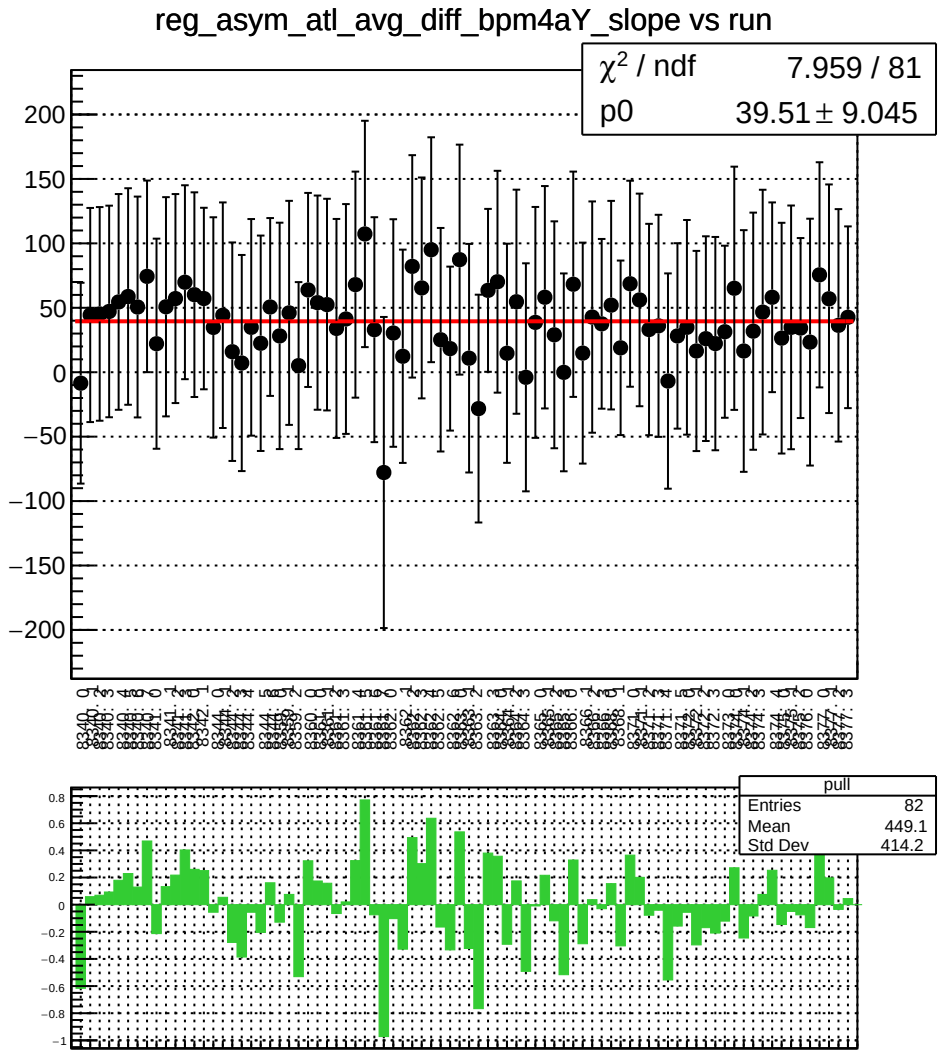

pull1D
Entries 82
Mean −0.0008891
Std Dev 0.2285

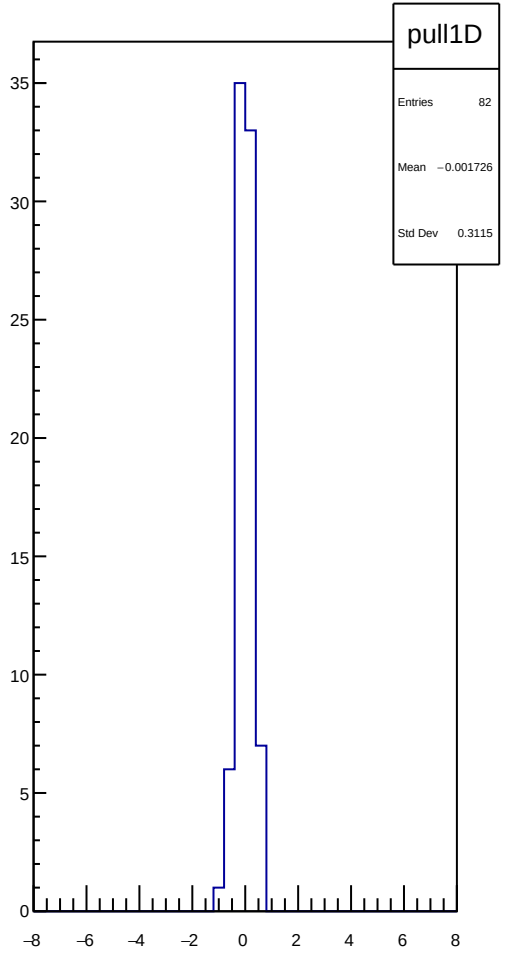

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 11.67 / 81
p0 −326.8 ± 1.553
pull
Entries 82
Mean 317.5
Std Dev 278.3

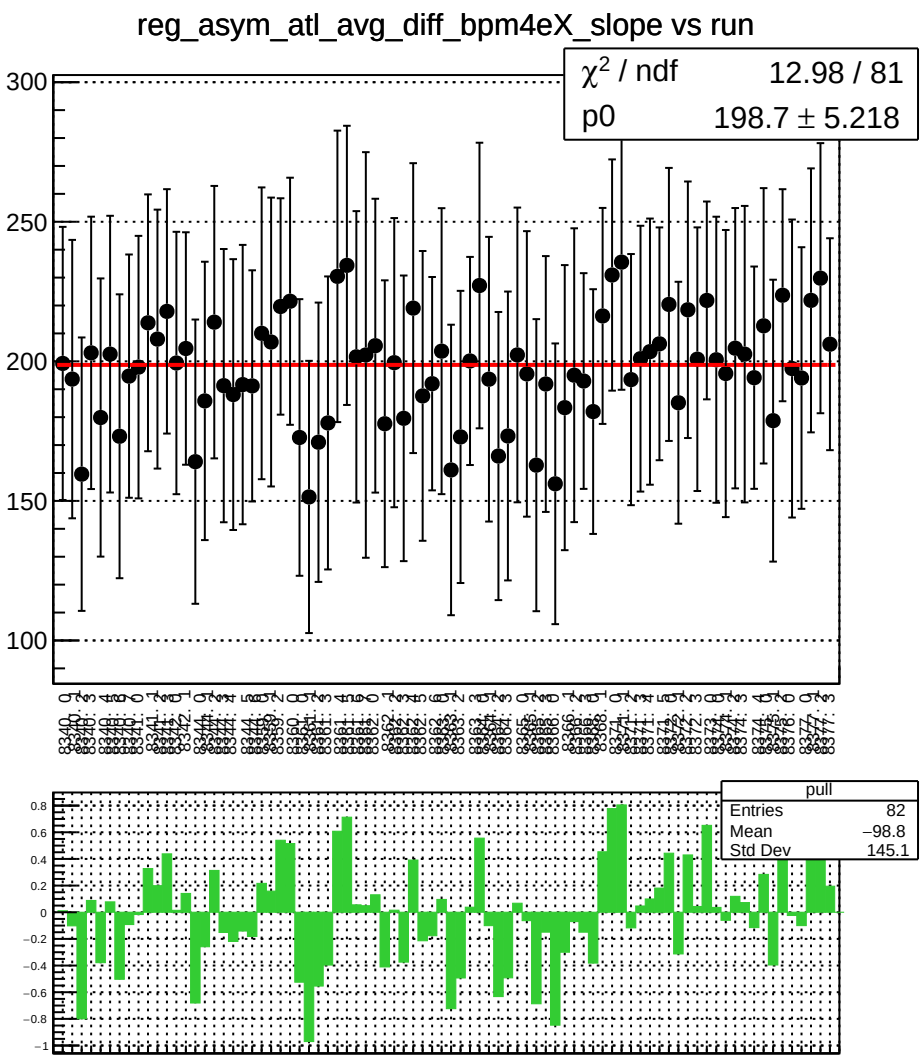

pull1D
Entries 82
Mean −0.01531
Std Dev 0.3769

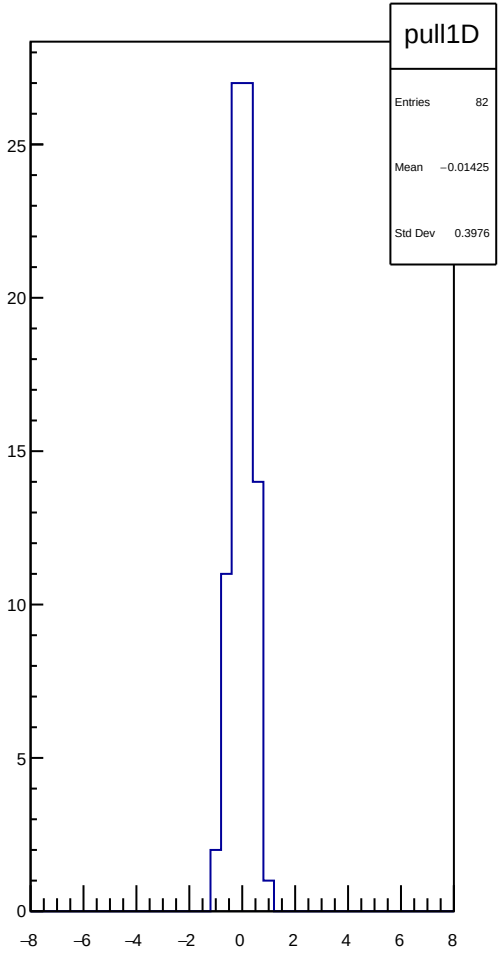

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 14.44 / 81
p0 −243.9 ± 4.554
pull
Entries 82
Mean −128.1
Std Dev 175.3

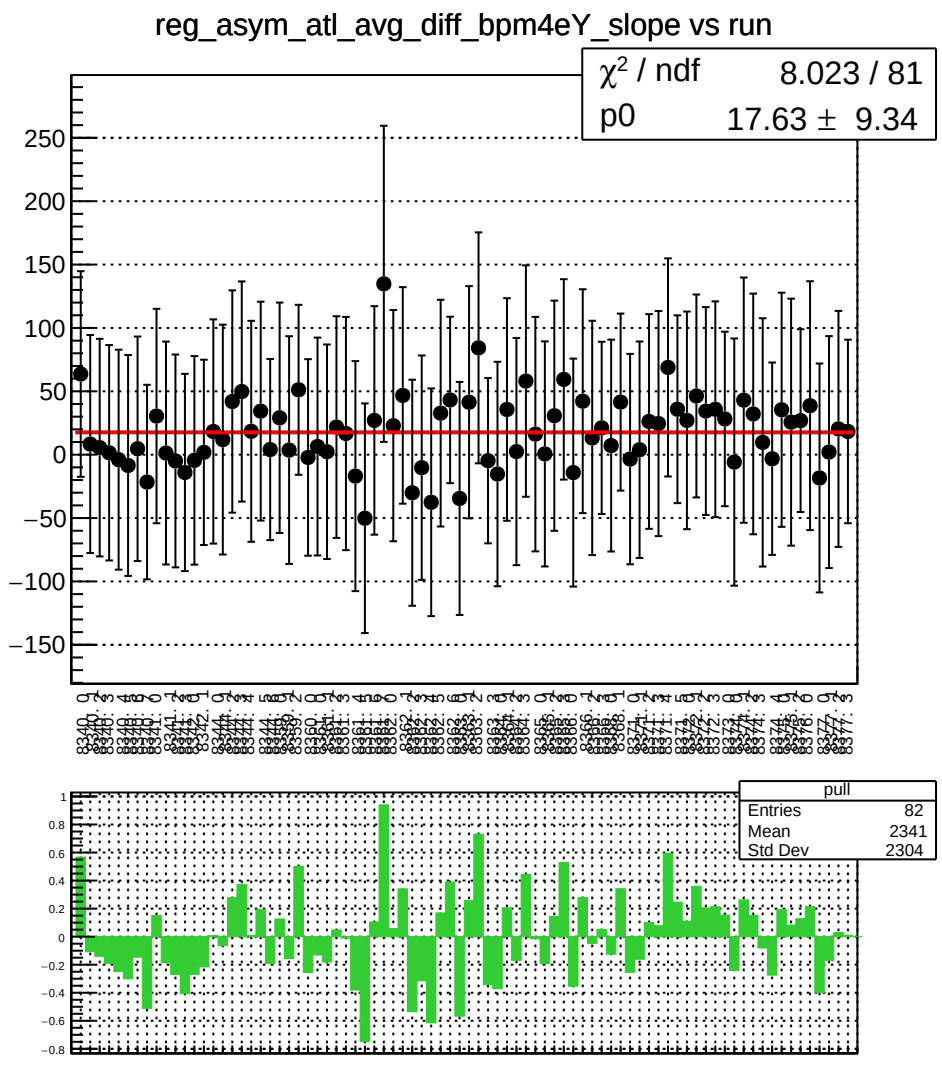

pull1D
Entries 82
Mean 0.01866
Std Dev 0.4192

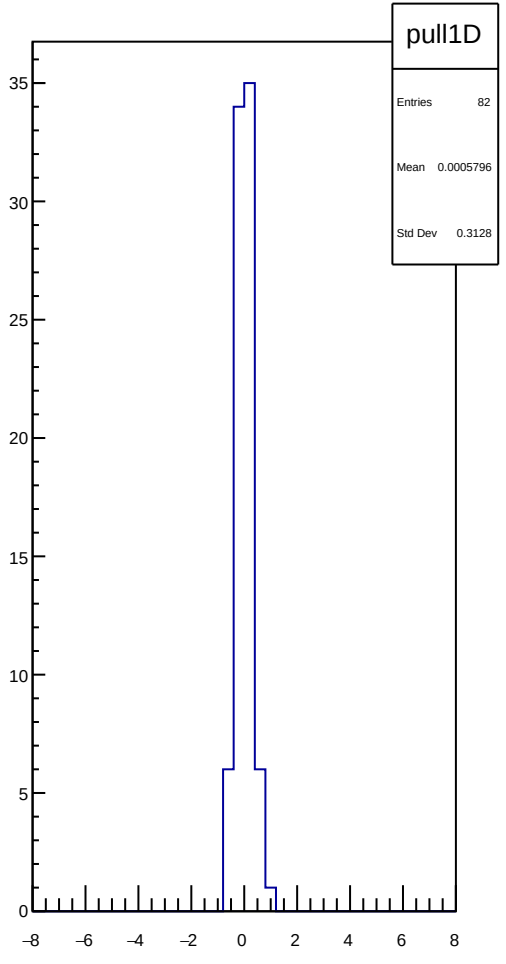

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.959 / 81
p0 39.51 ± 9.045
pull
Entries 82
Mean 449.1
Std Dev 414.2

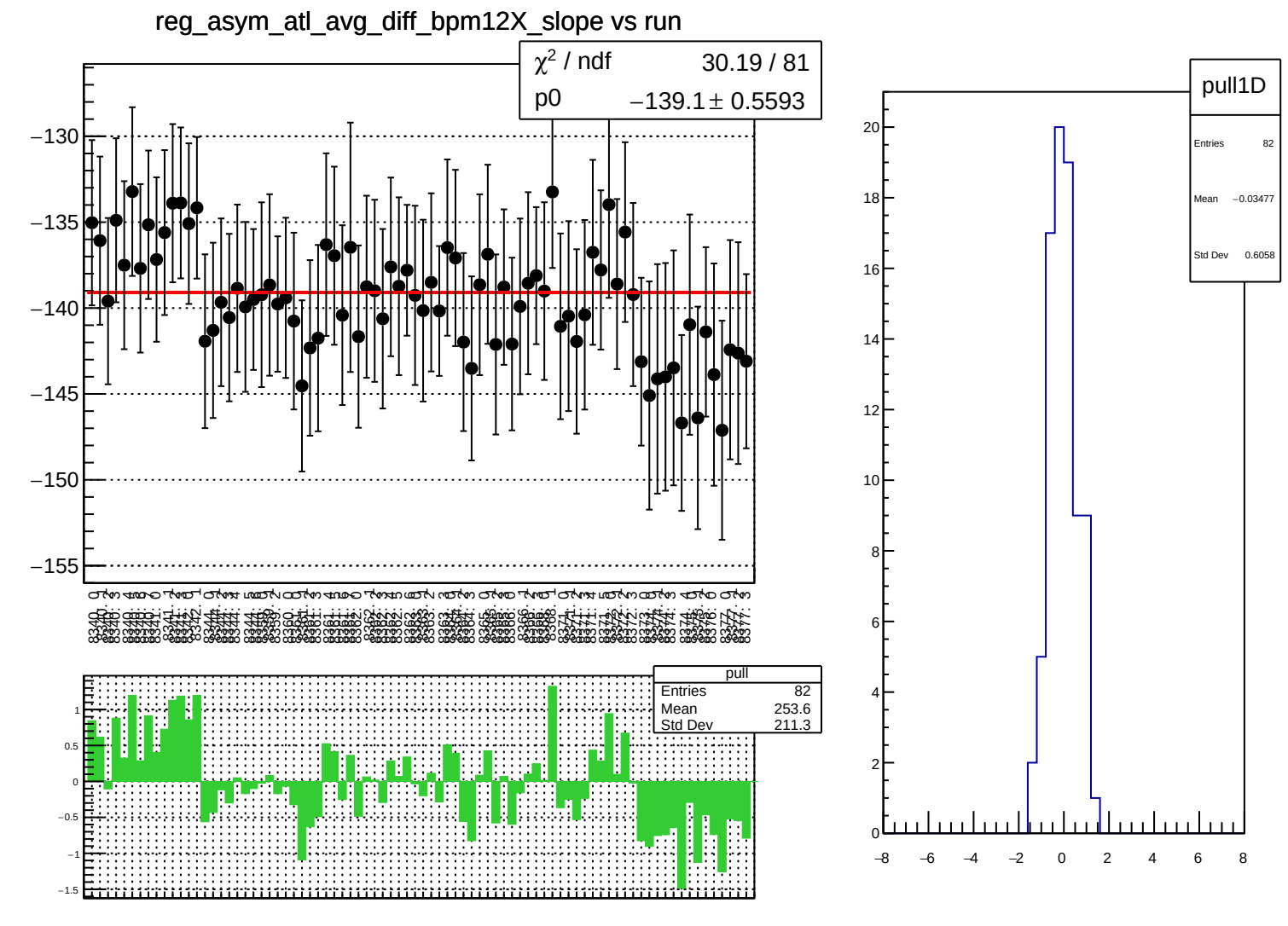

pull1D
Entries 82
Mean −0.001726
Std Dev 0.3115

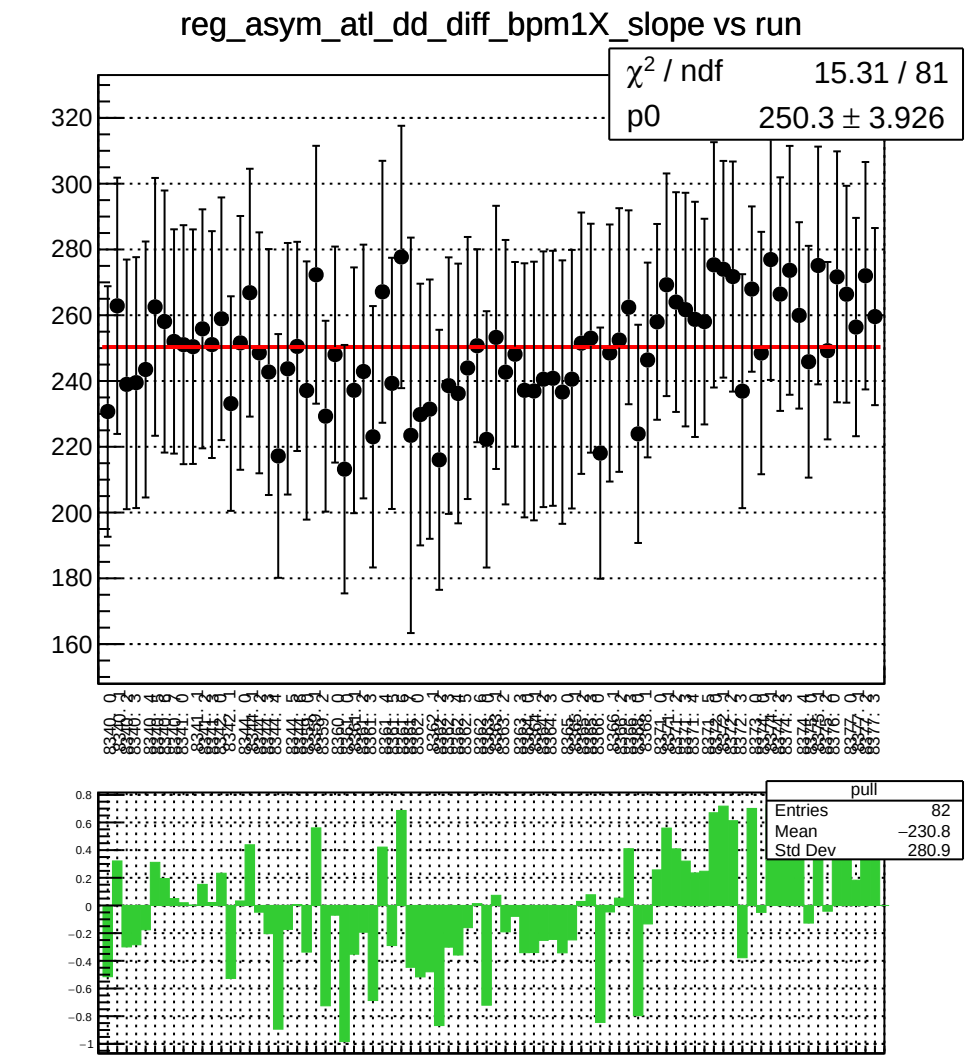

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.98 / 81
p0 198.7 ± 5.218
300
250
200
150
100
pull
Entries 82
Mean −98.8
Std Dev 145.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

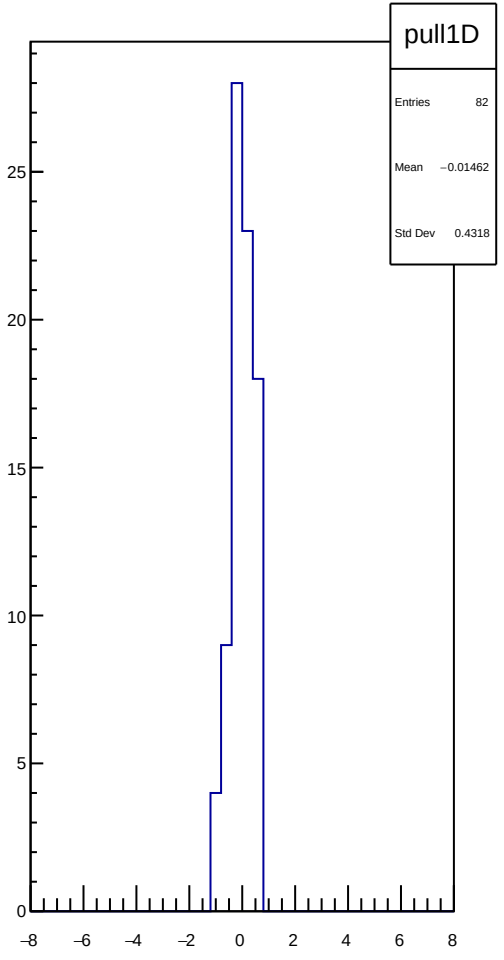

pull1D
Entries 82
Mean −0.01425
Std Dev 0.3976
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

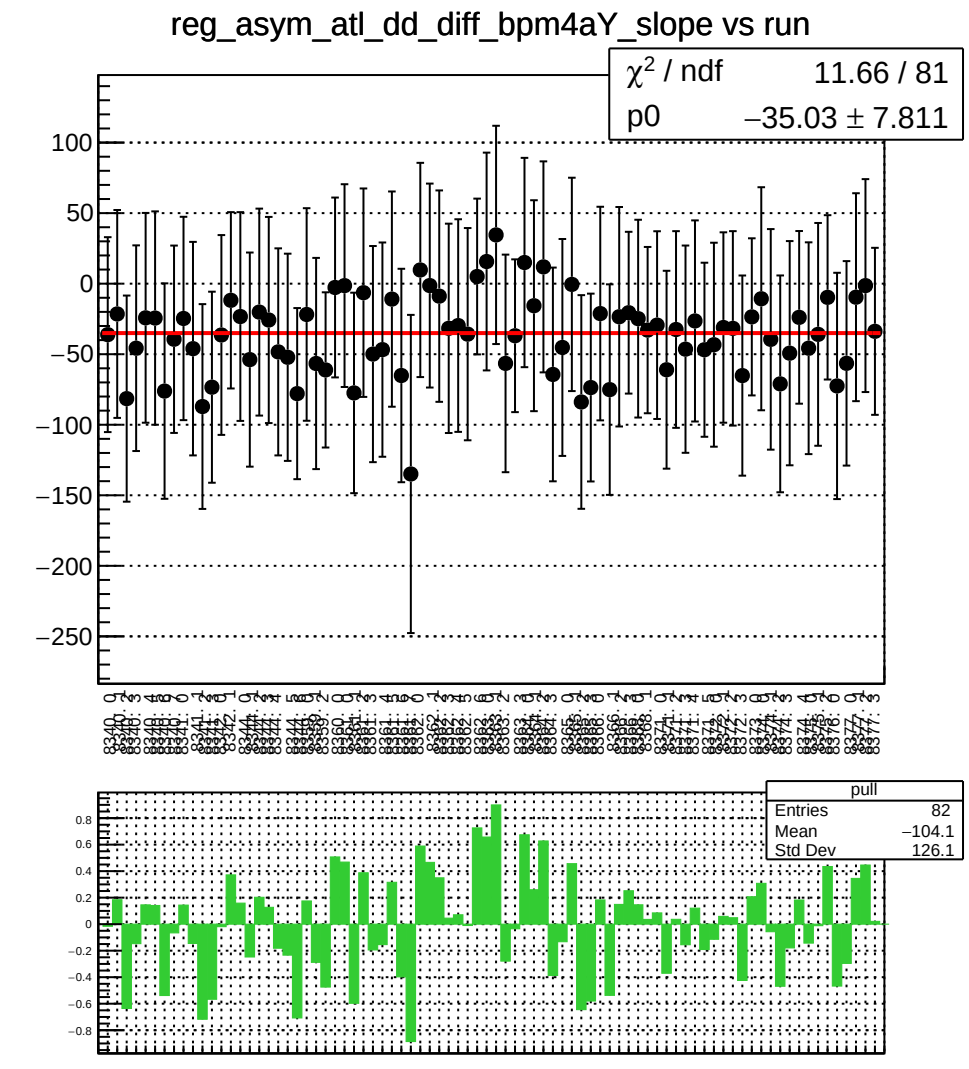

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.023 / 81
p0 17.63 ± 9.34
pull
Entries 82
Mean 2341
Std Dev 2304

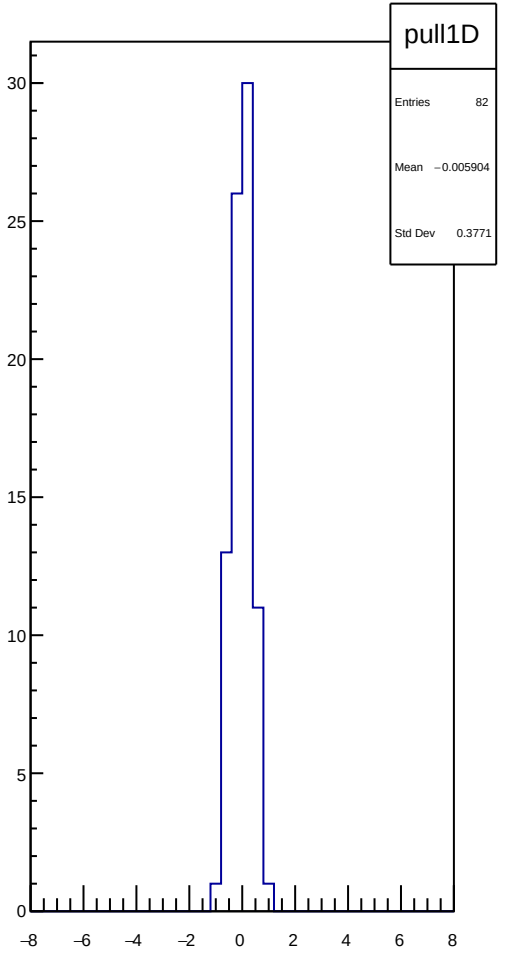

pull1D
Entries 82
Mean 0.0005796
Std Dev 0.3128

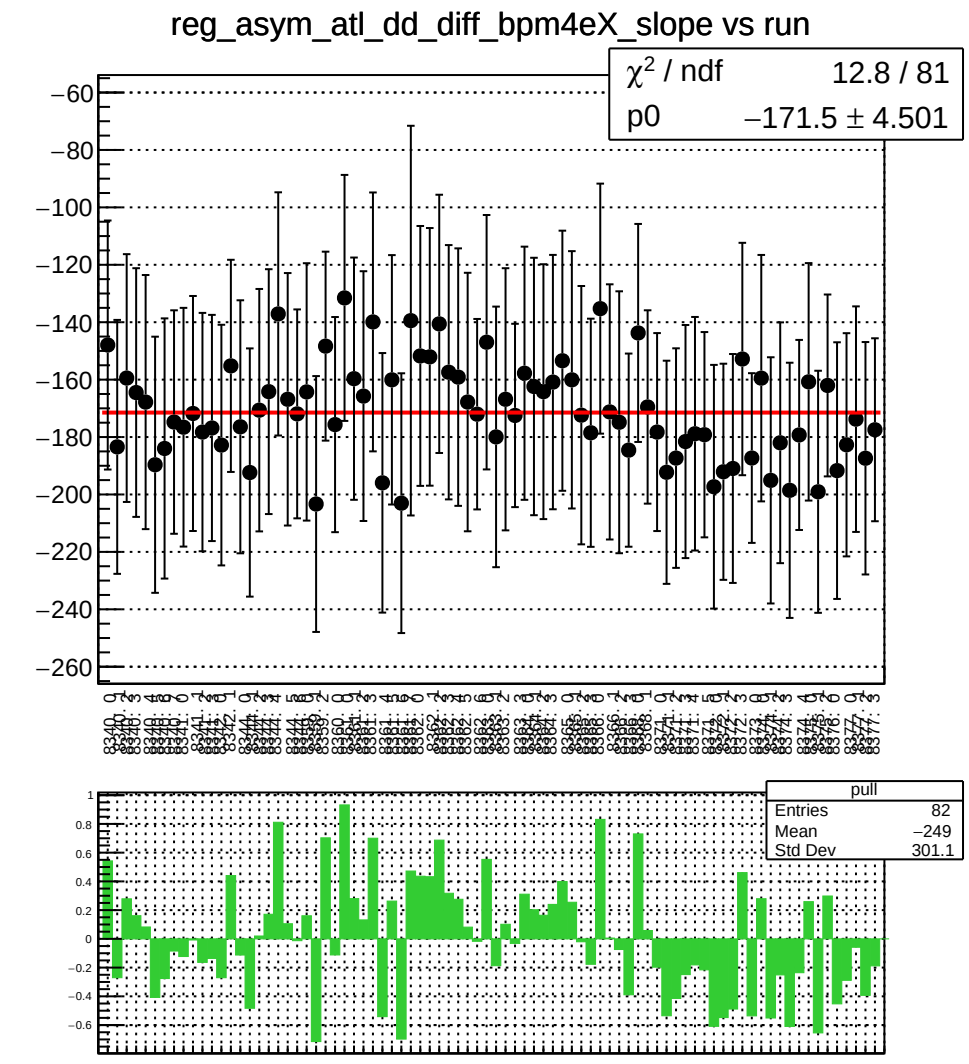

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 30.19 / 81
p0 −139.1 ± 0.5593
−130
−135
−140
−145
−150
−155
pull
Entries 82
Mean 253.6
Std Dev 211.3
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean −0.03477
Std Dev 0.6058
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

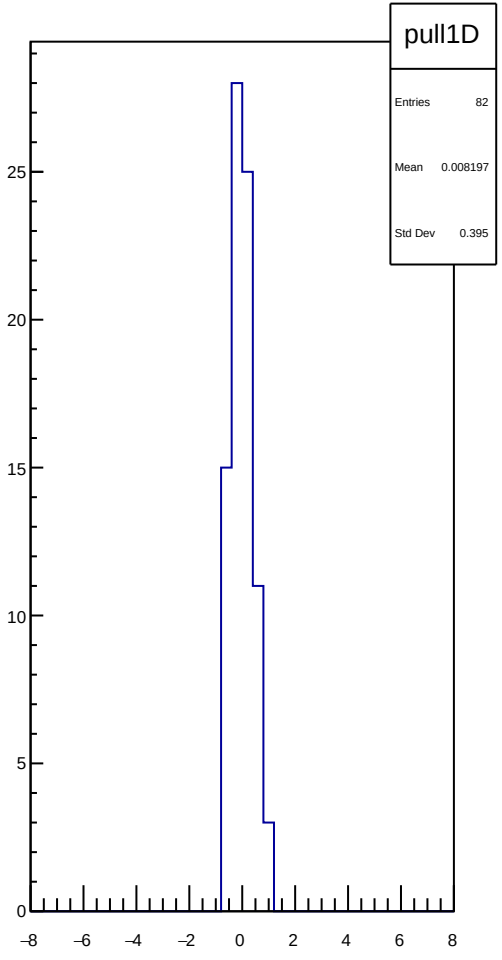

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 15.31 / 81
p0 250.3 ± 3.926
pull
Entries 82
Mean −230.8
Std Dev 280.9

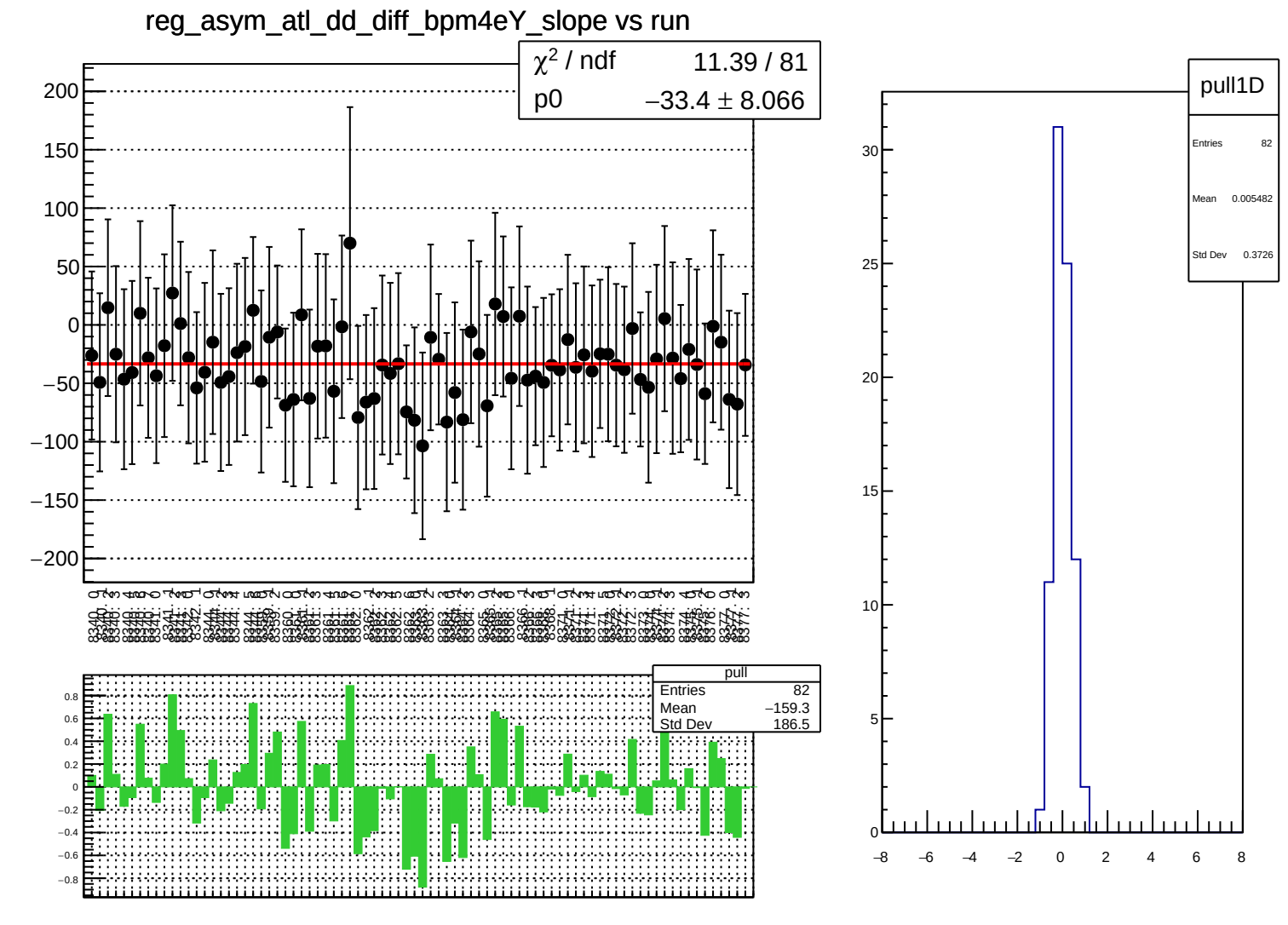

pull1D
Entries 82
Mean −0.01462
Std Dev 0.4318

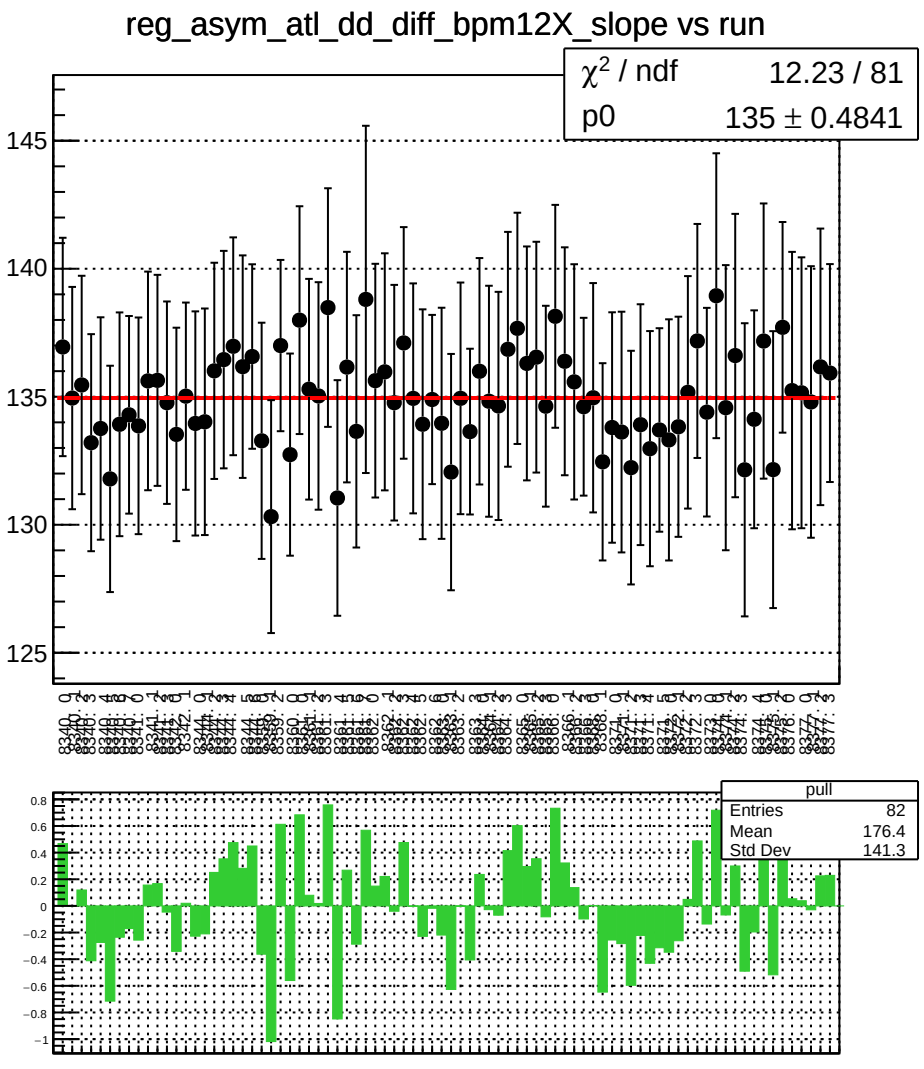

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.66 / 81
p0 −35.03 ± 7.811
pull
Entries 82
Mean −104.1
Std Dev 126.1

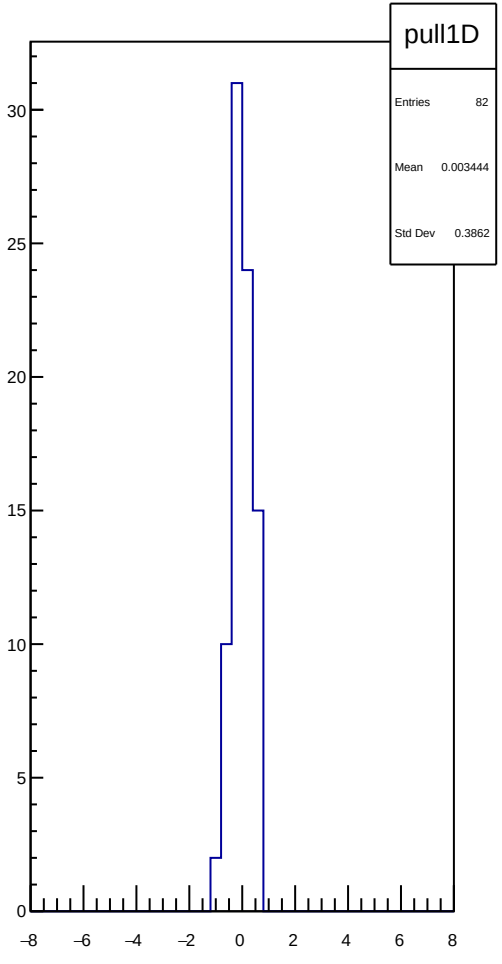

pull1D
Entries 82
Mean −0.005904
Std Dev 0.3771

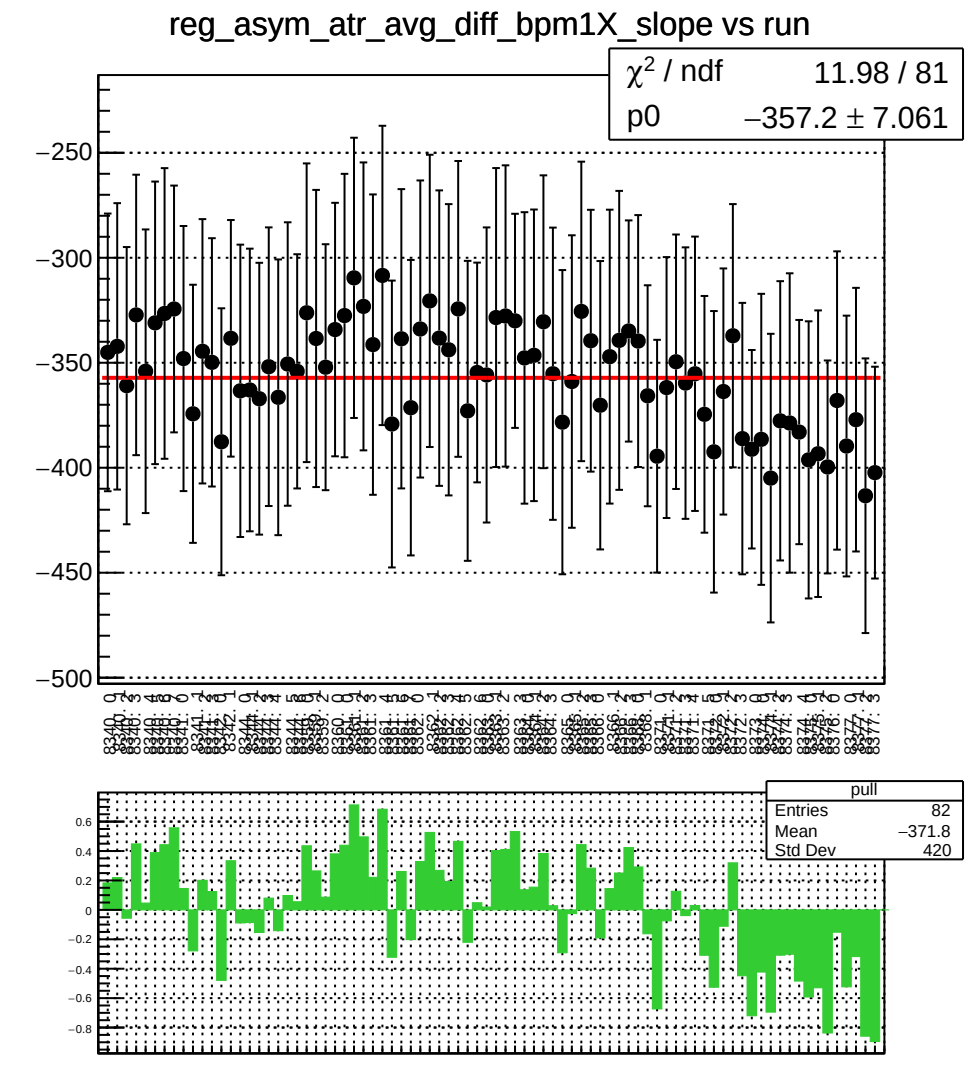

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.8 / 81
p0 −171.5 ± 4.501
pull
Entries 82
Mean −249
Std Dev 301.1

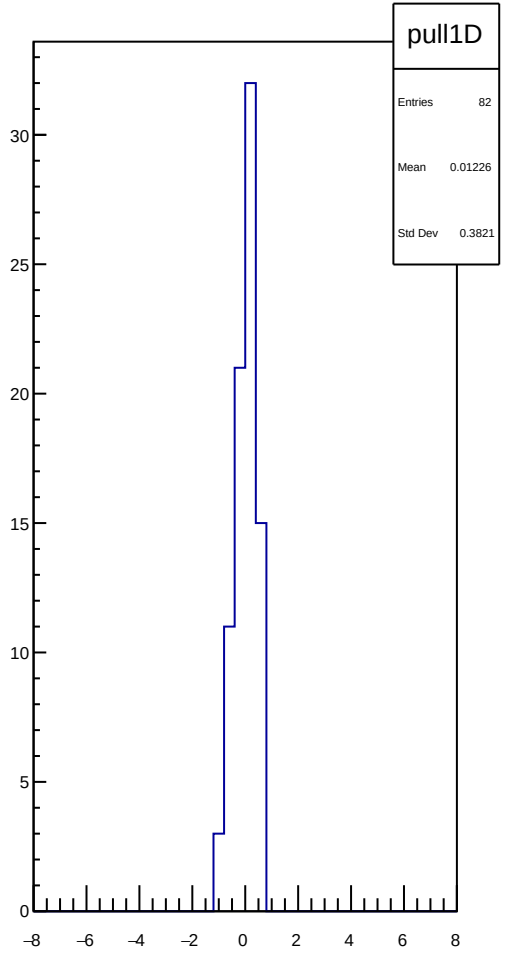

pull1D
Entries 82
Mean 0.008197
Std Dev 0.395

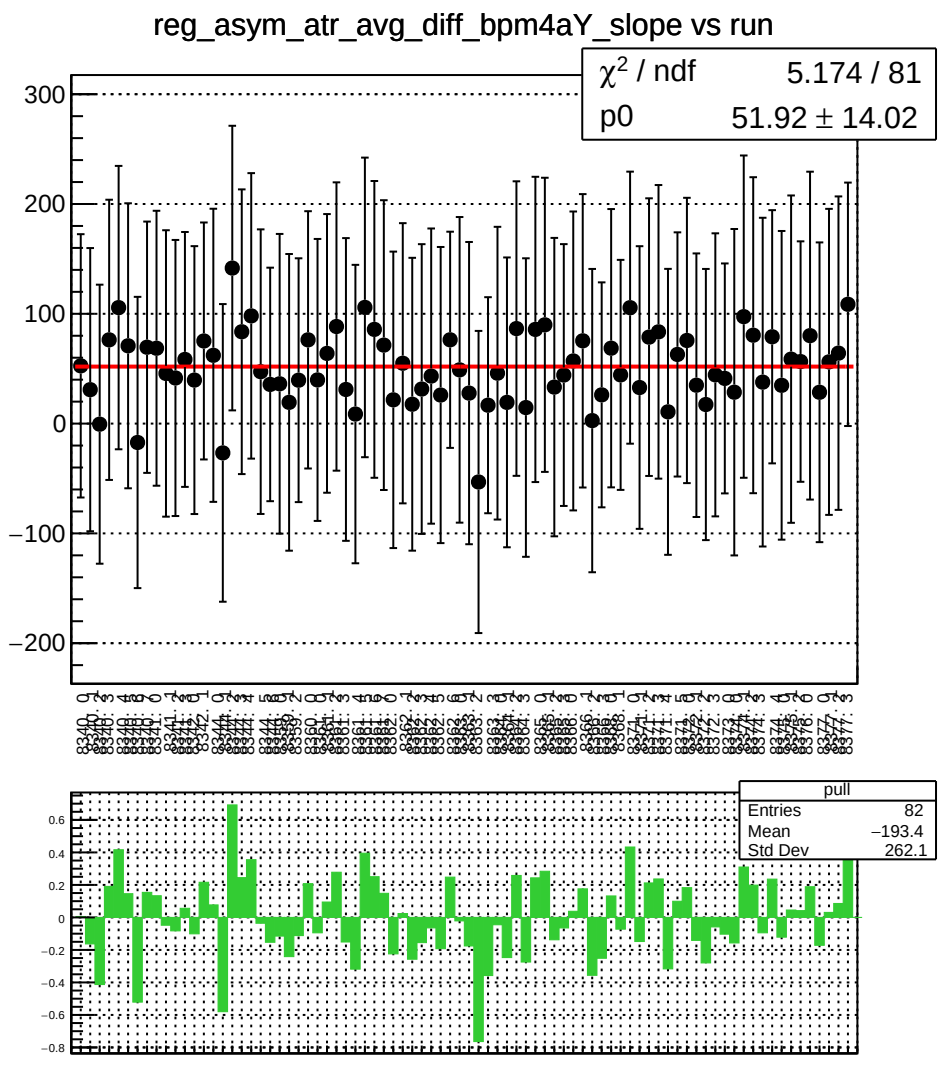

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.39 / 81
p0 −33.4 ± 8.066
pull
Entries 82
Mean −159.3
Std Dev 186.5
pull1D
Entries 82
Mean 0.005482
Std Dev 0.3726

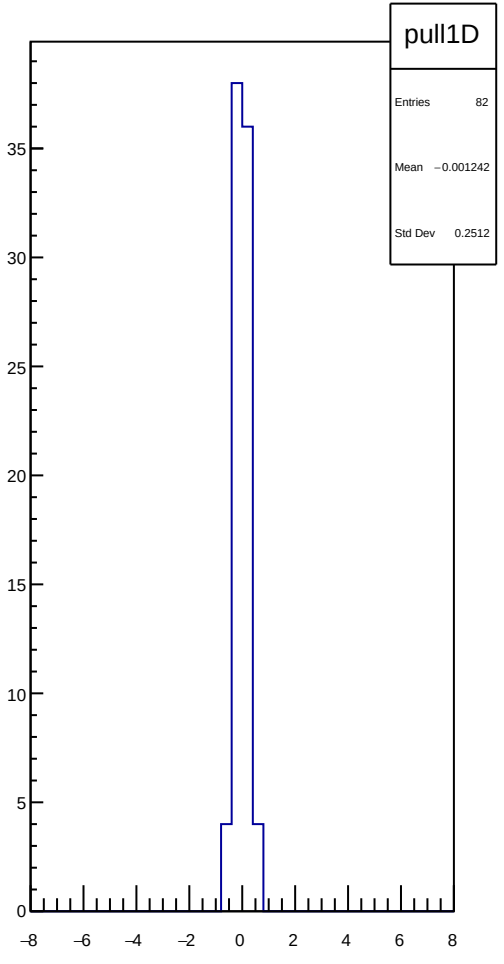

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 12.23 / 81
p0 135 ± 0.4841
pull
Entries 82
Mean 176.4
Std Dev 141.3

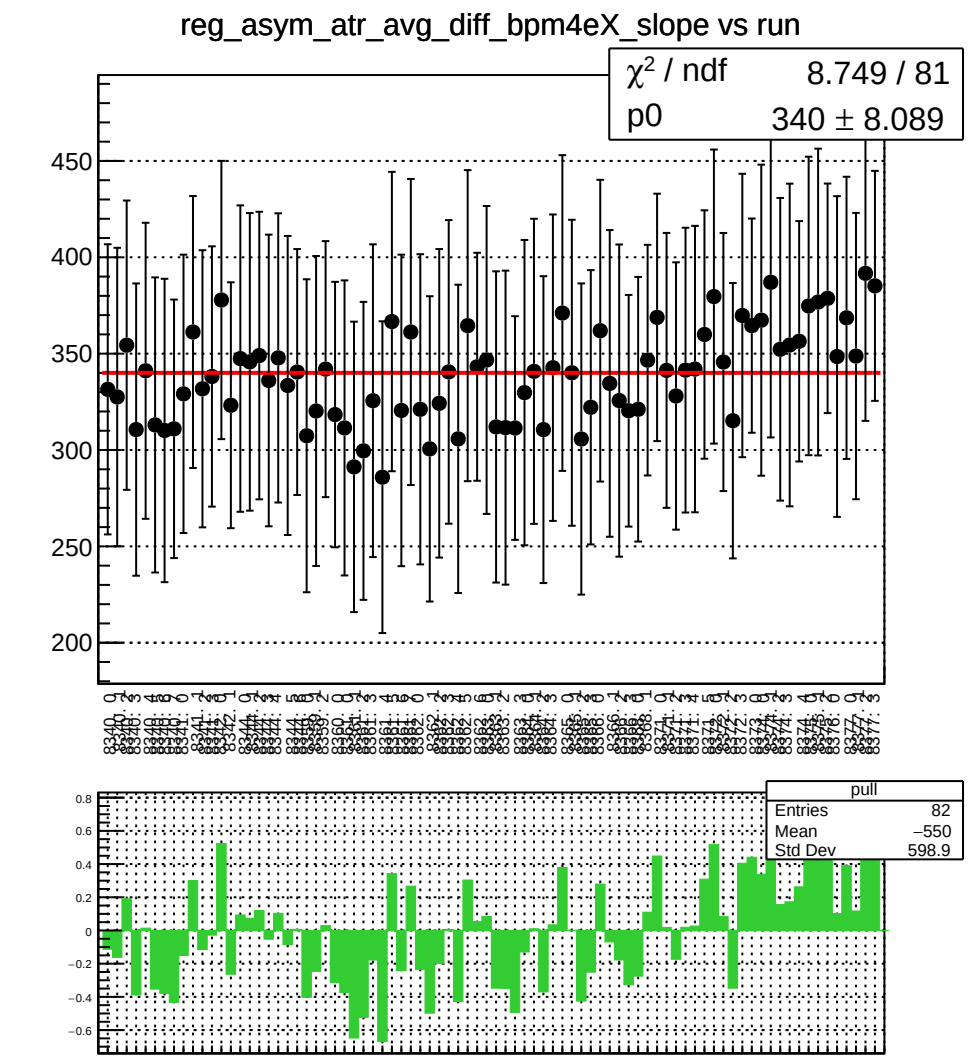

pull1D
Entries 82
Mean 0.003444
Std Dev 0.3862

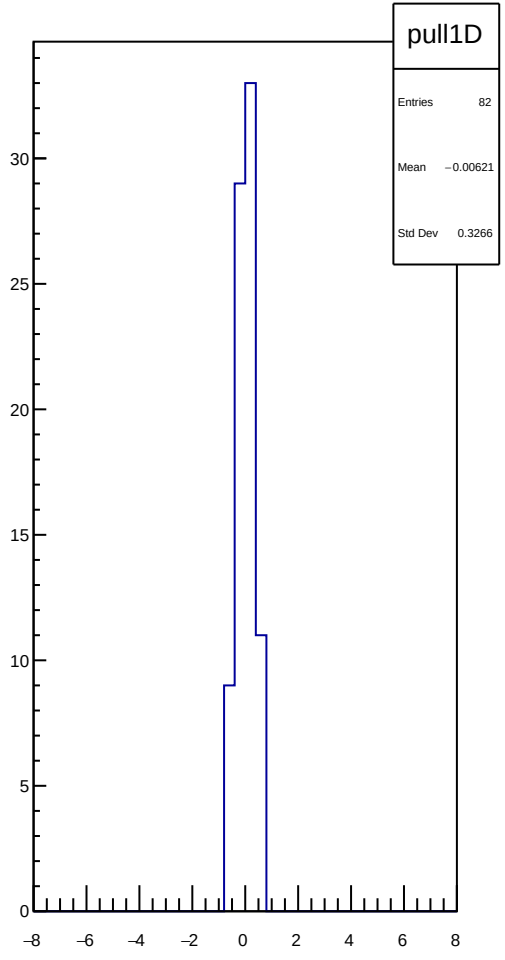

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 11.98 / 81
p0 −357.2 ± 7.061
−250
−300
−350
−400
−450
−500
pull
Entries 82
Mean −371.8
Std Dev 420
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

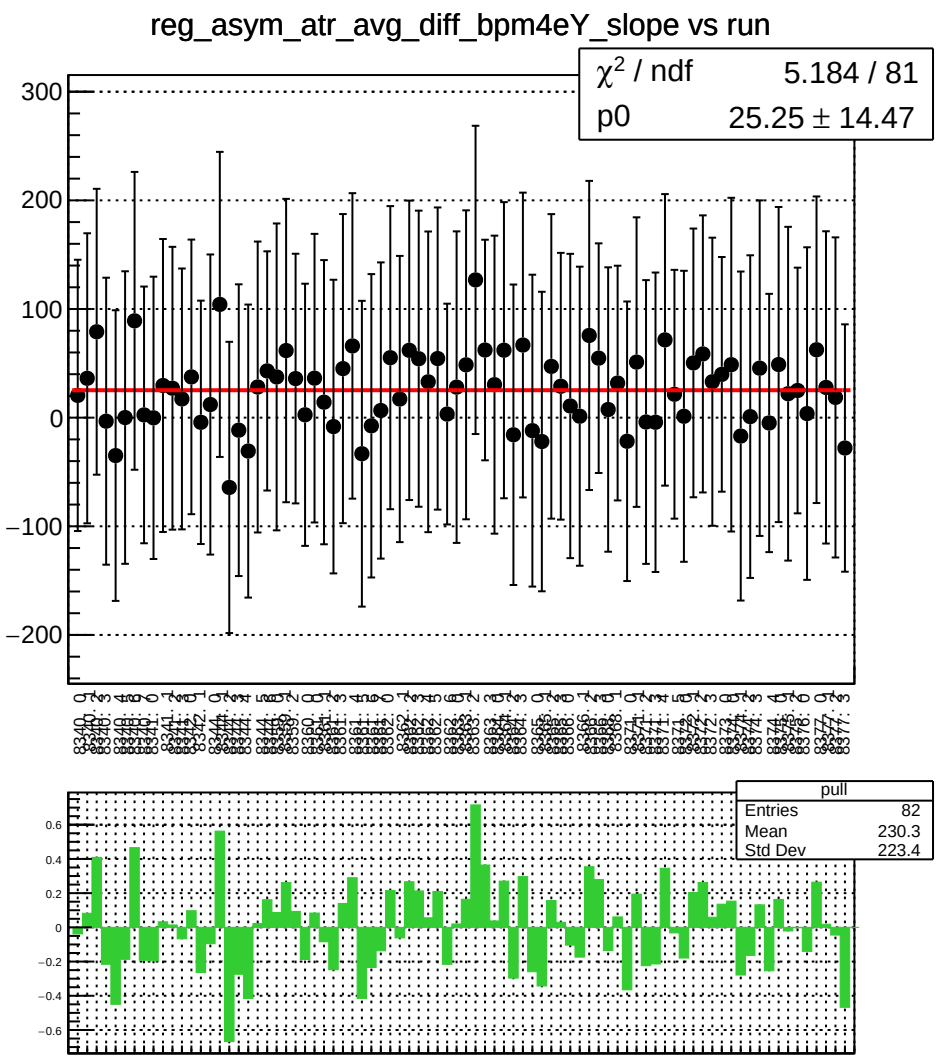

pull1D
Entries 82
Mean 0.01226
Std Dev 0.3821
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

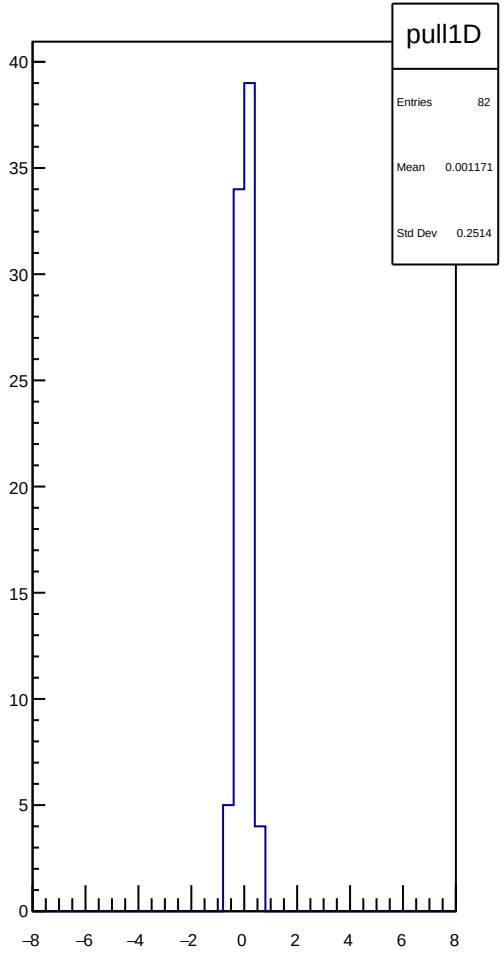

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.174 / 81
p0 51.92 ± 14.02
pull
Entries 82
Mean −193.4
Std Dev 262.1

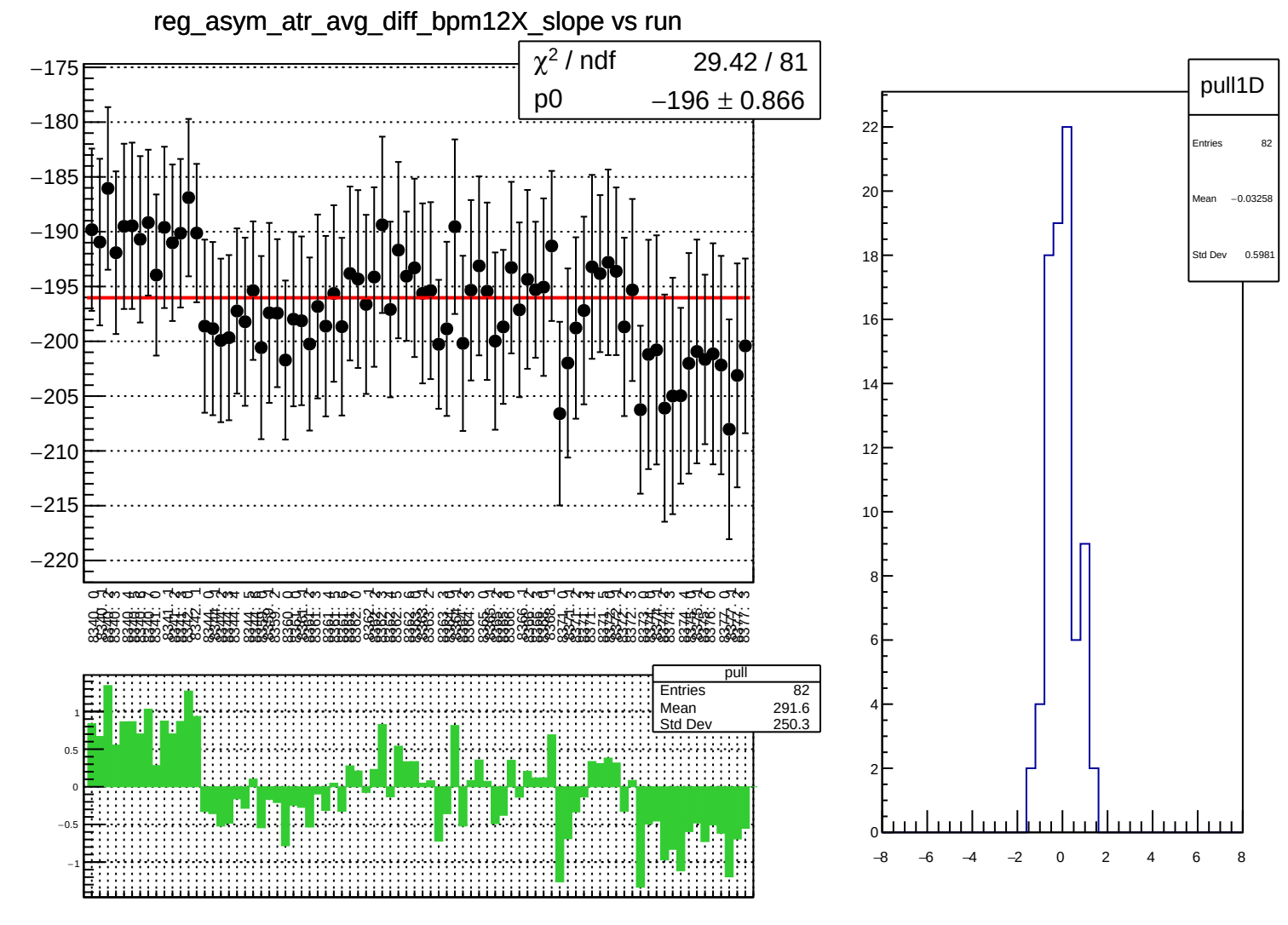

pull1D
Entries 82
Mean −0.001242
Std Dev 0.2512

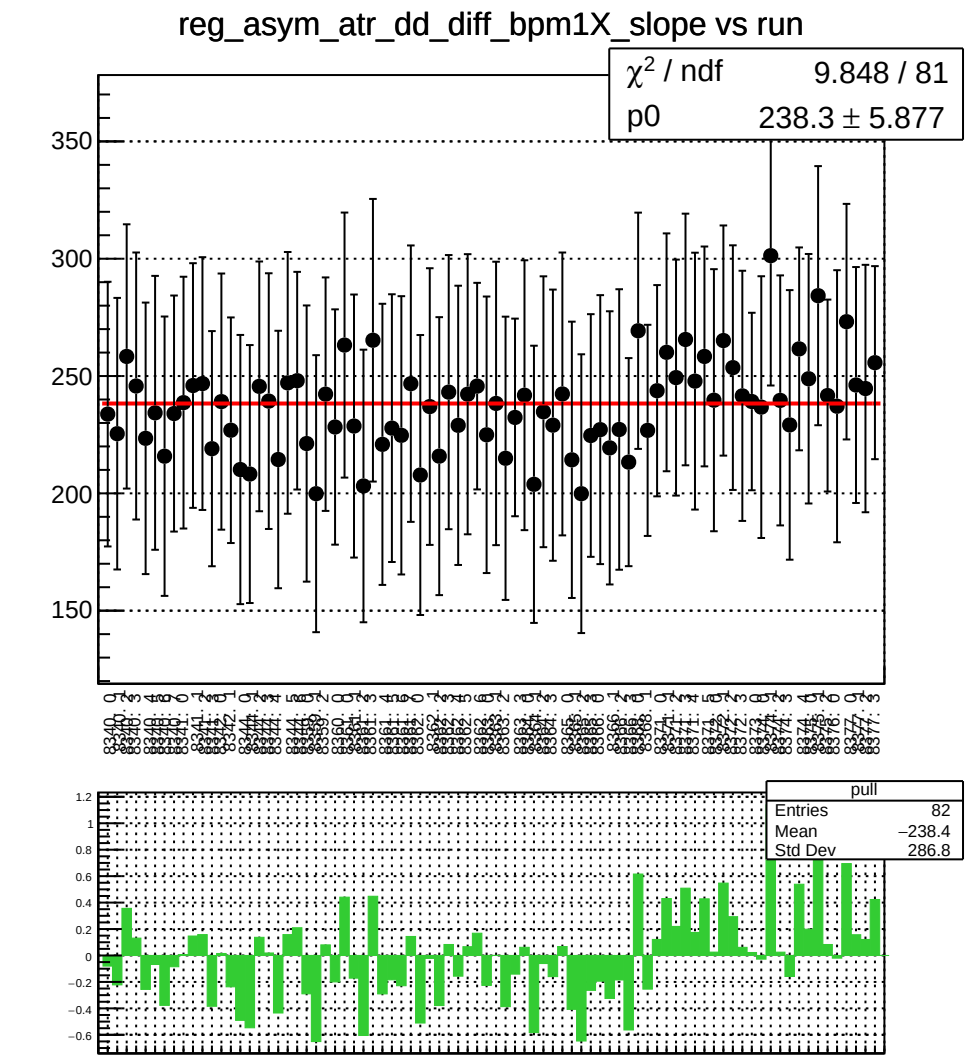

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.749 / 81
p0 340 ± 8.089
pull
Entries 82
Mean −550
Std Dev 598.9

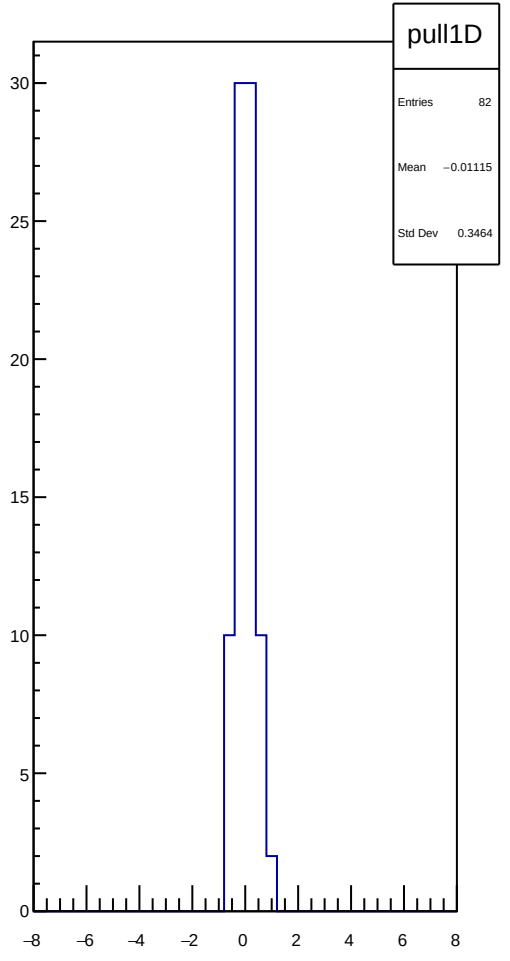

pull1D
Entries 82
Mean −0.00621
Std Dev 0.3266

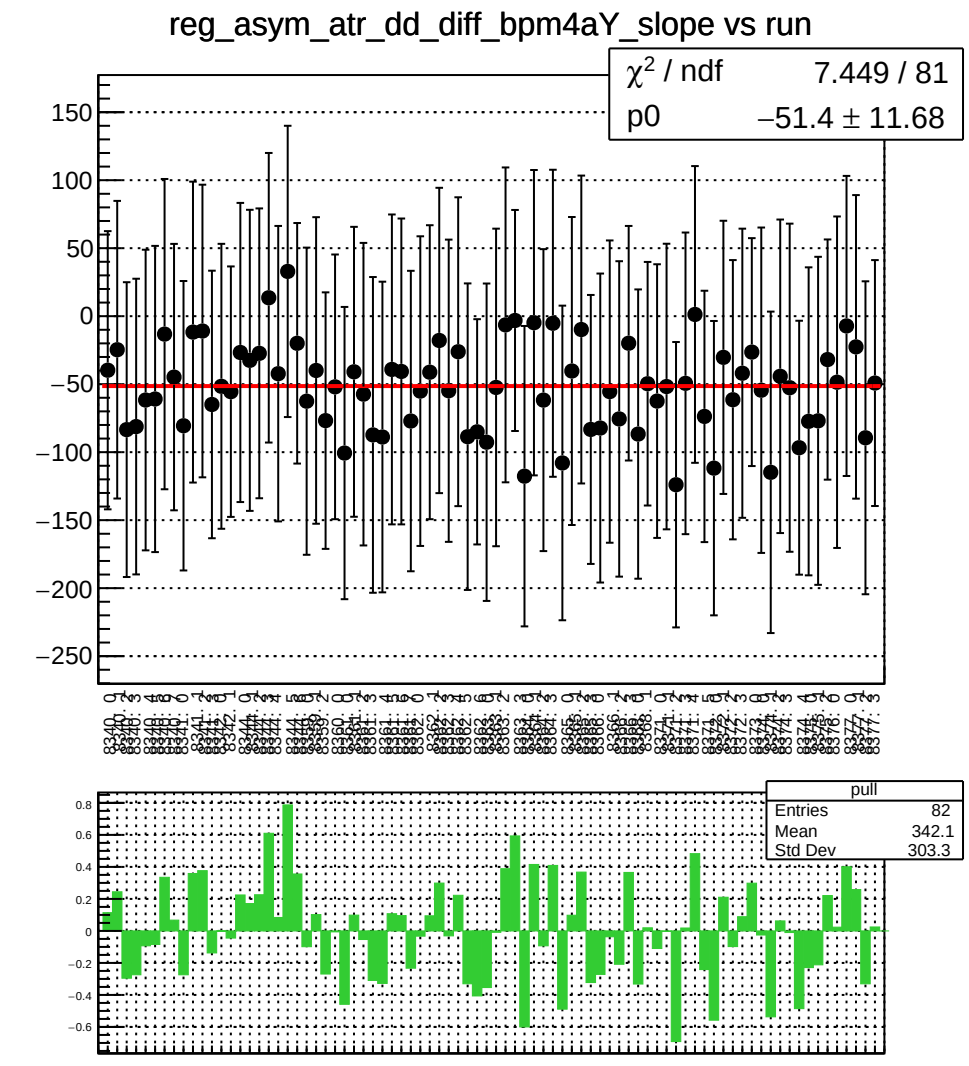

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.184 / 81
p0 25.25 ± 14.47
300
200
100
0
−100
−200
pull
Entries 82
Mean 230.3
Std Dev 223.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

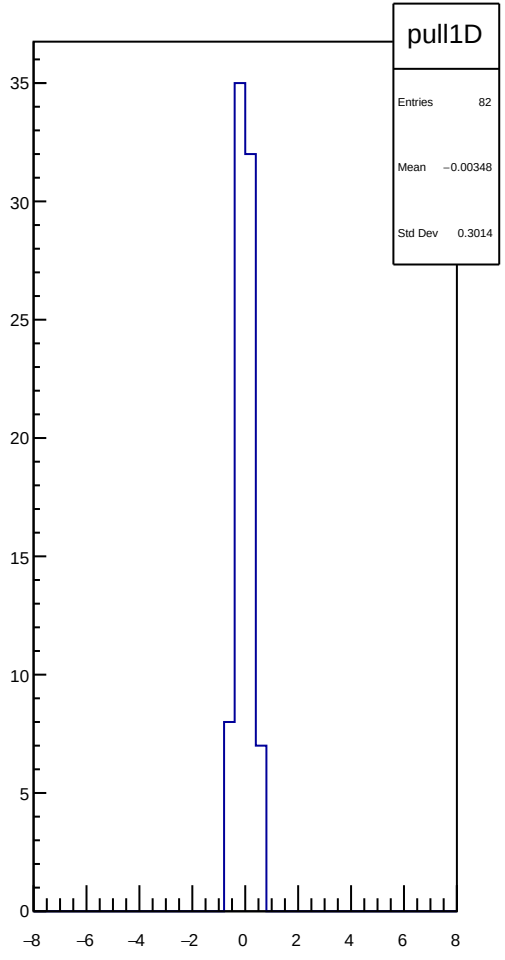

pull1D
Entries 82
Mean 0.001171
Std Dev 0.2514
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

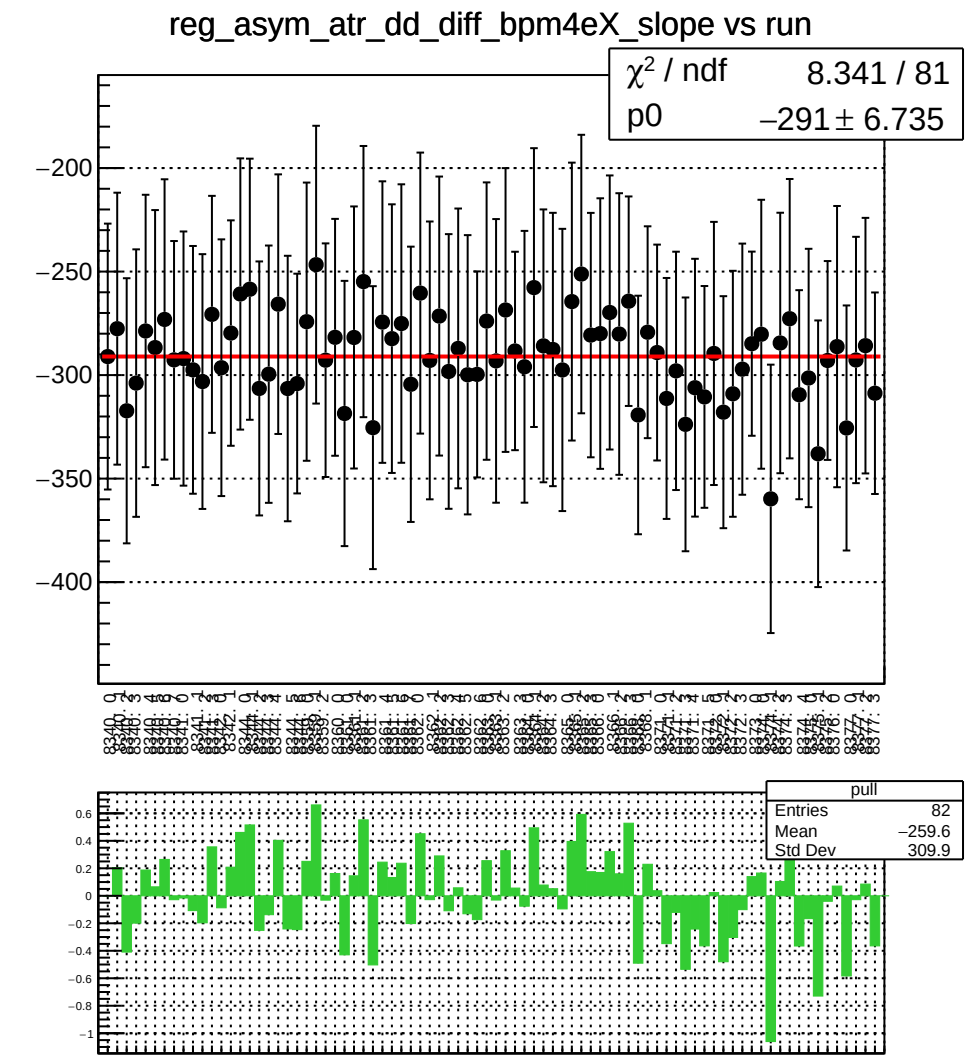

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 29.42 / 81
p0 −196 ± 0.866
pull
Entries 82
Mean 291.6
Std Dev 250.3
pull1D
Entries 82
Mean −0.03258
Std Dev 0.5981

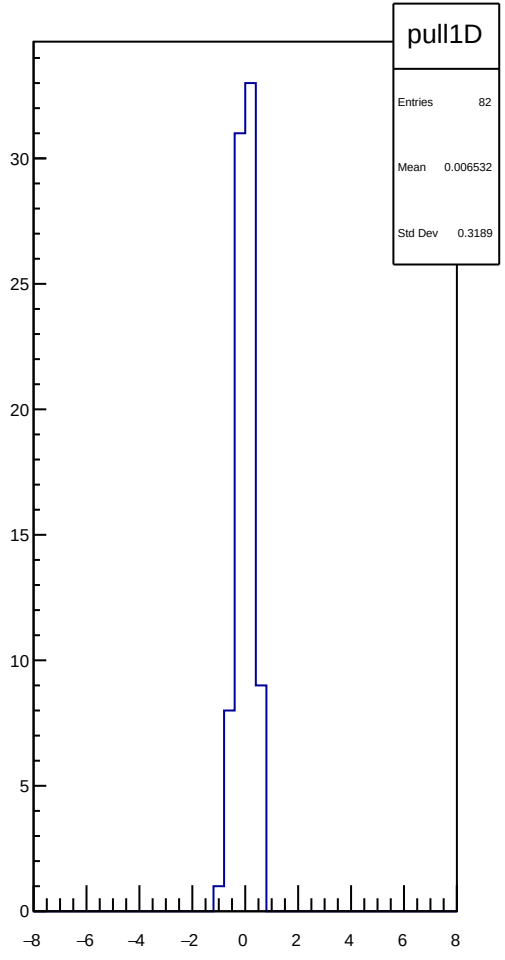

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 9.848 / 81
p0 238.3 ± 5.877
350
300
250
200
150
pull
Entries 82
Mean −238.4
Std Dev 286.8
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

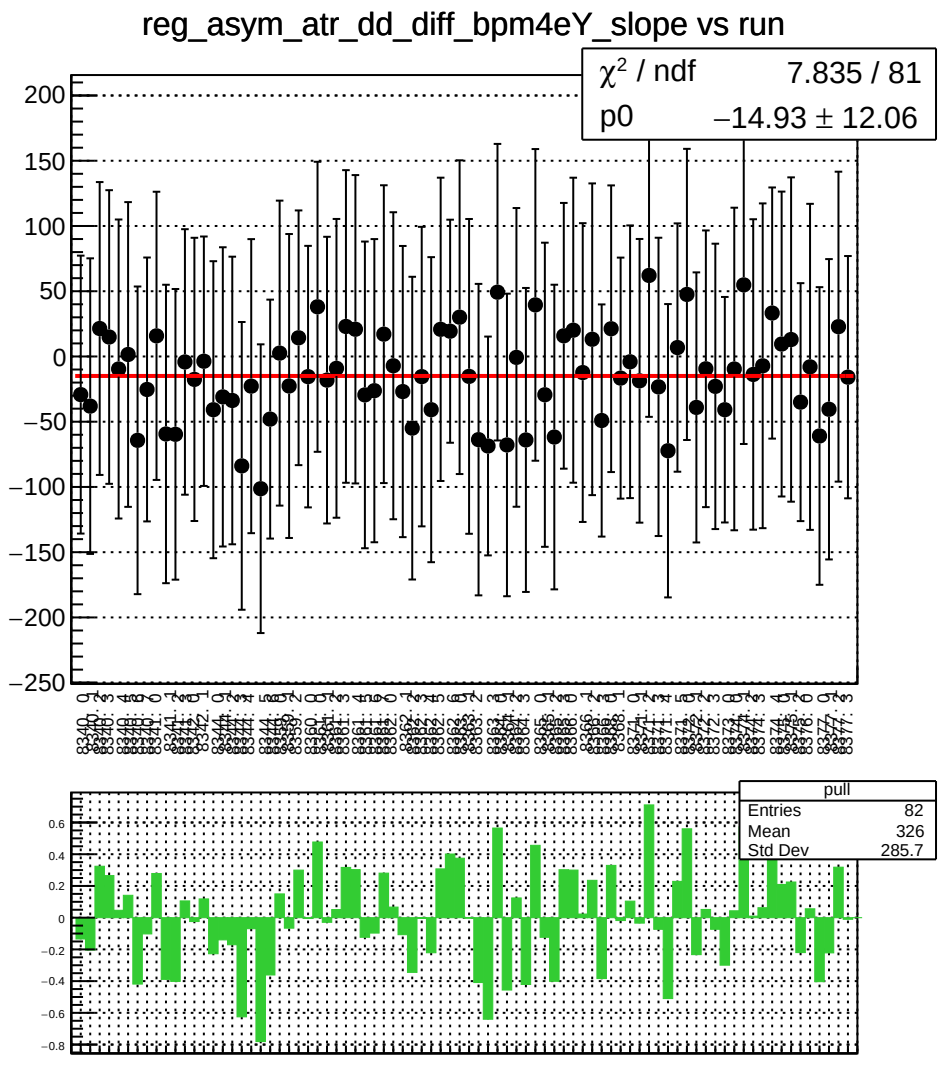

pull1D
Entries 82
Mean −0.01115
Std Dev 0.3464
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

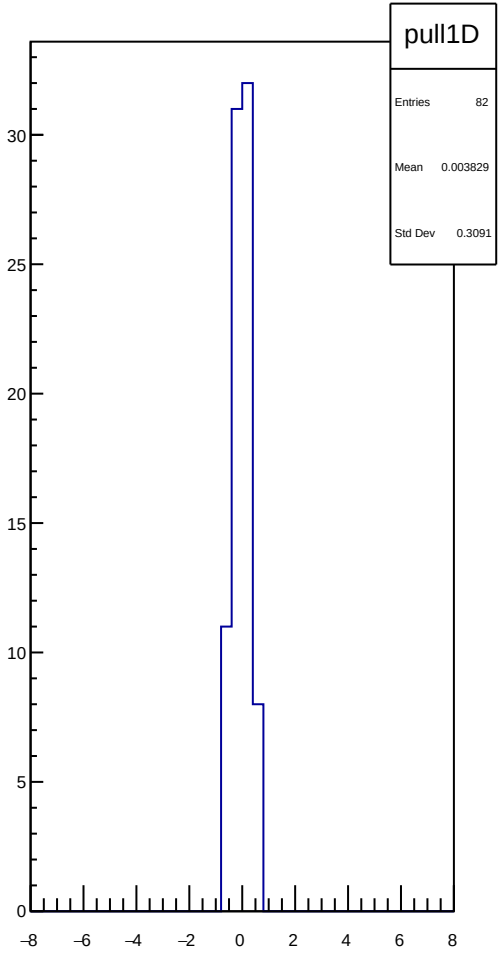

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.449 / 81
p0 −51.4 ± 11.68
pull
Entries 82
Mean 342.1
Std Dev 303.3

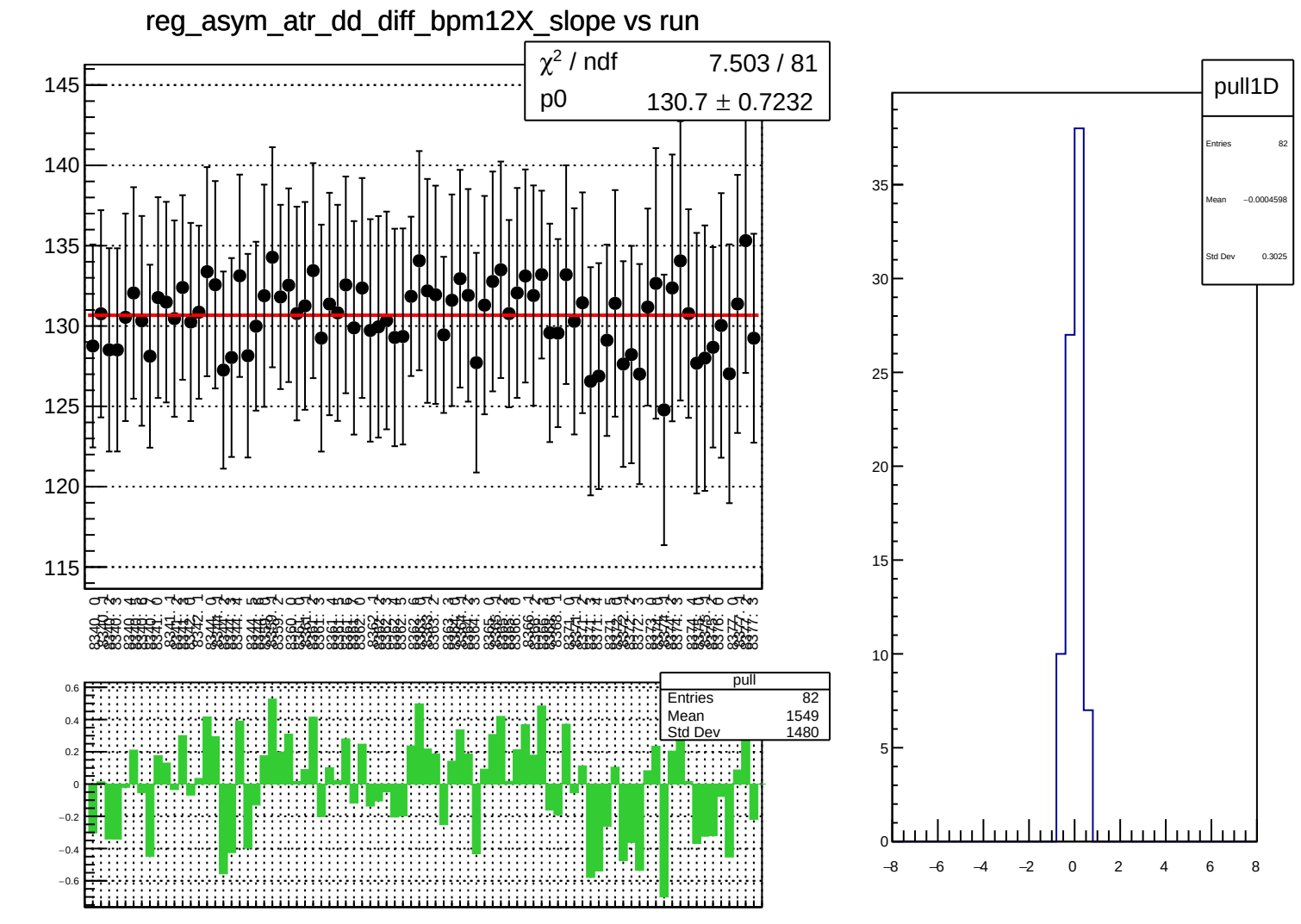

pull1D
Entries 82
Mean −0.00348
Std Dev 0.3014

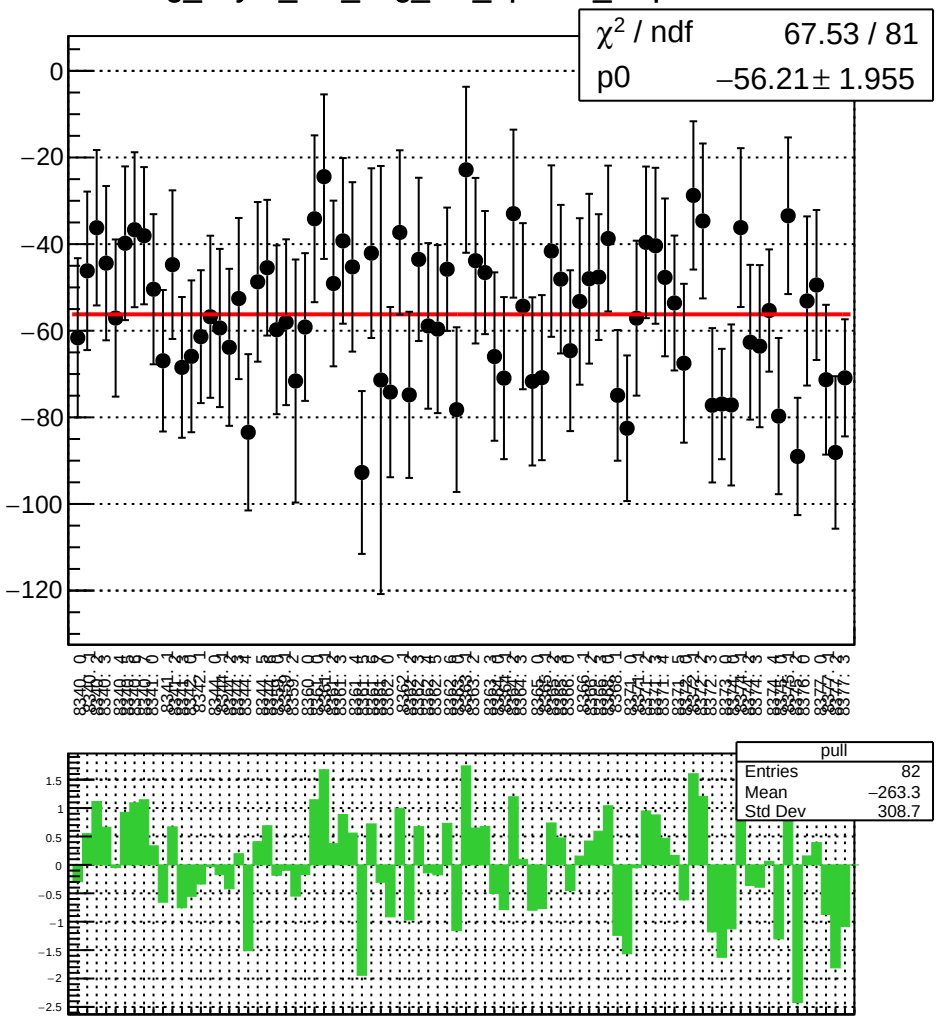

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.341 / 81
p0 −291 ± 6.735
−200
−250
−300
−350
−400
pull
Entries 82
Mean −259.6
Std Dev 309.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

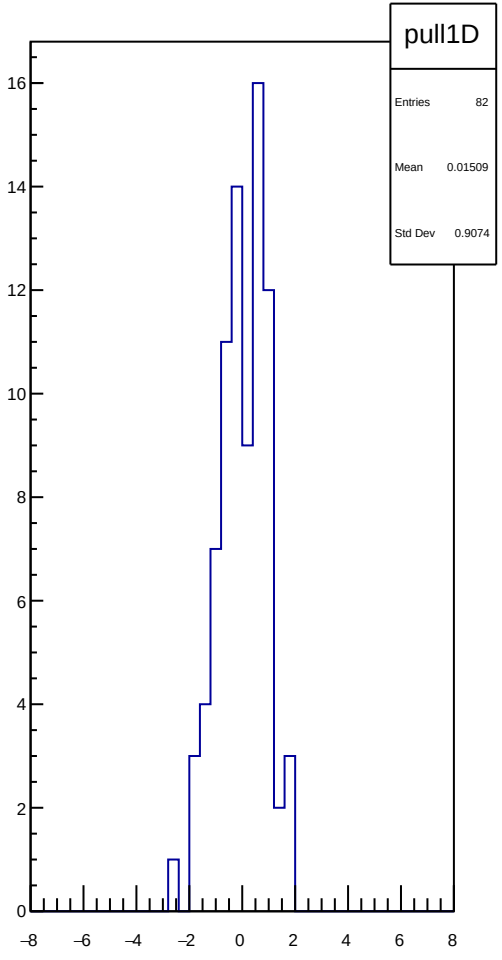

pull1D
Entries 82
Mean 0.006532
Std Dev 0.3189
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

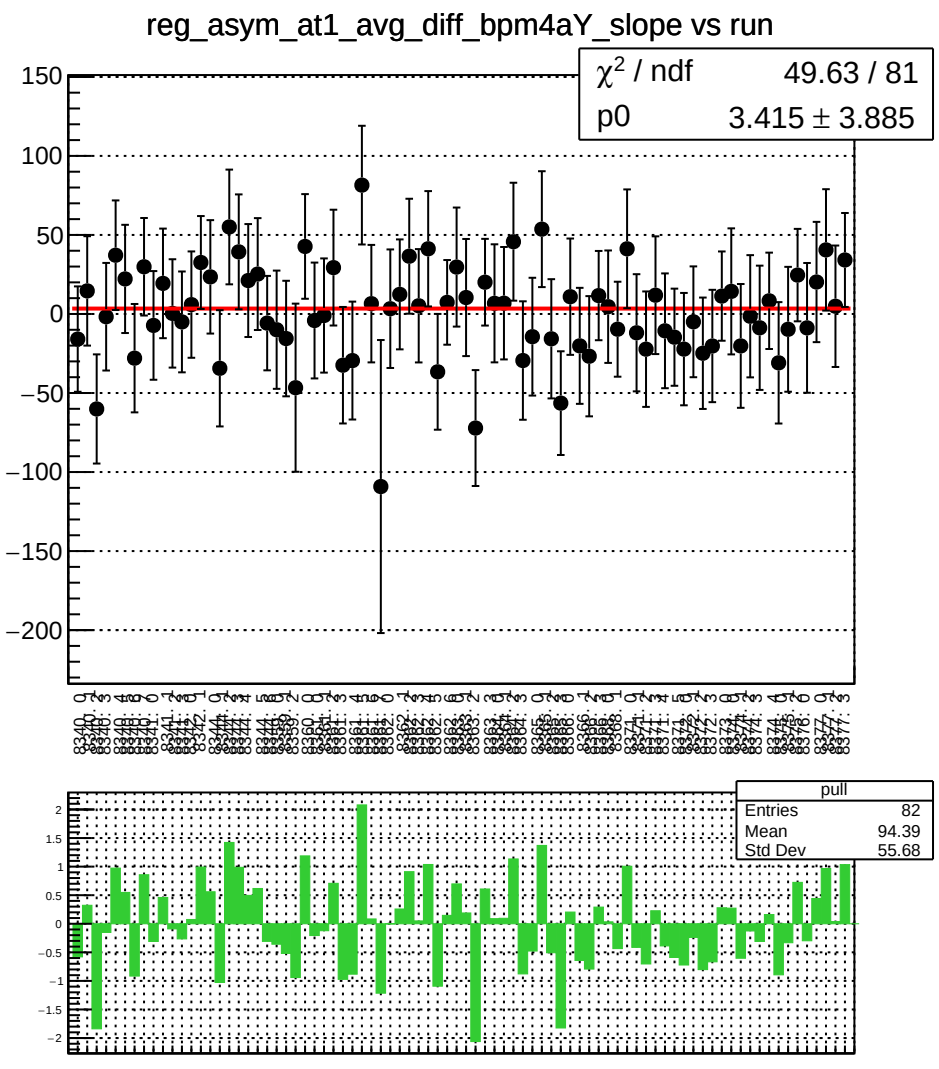

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.835 / 81
p0 −14.93 ± 12.06
pull
Entries 82
Mean 326
Std Dev 285.7

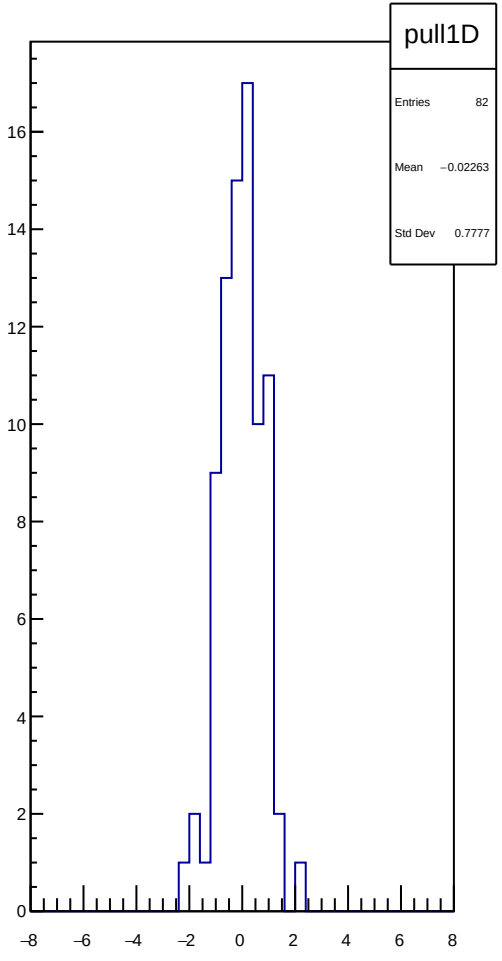

pull1D
Entries 82
Mean 0.003829
Std Dev 0.3091

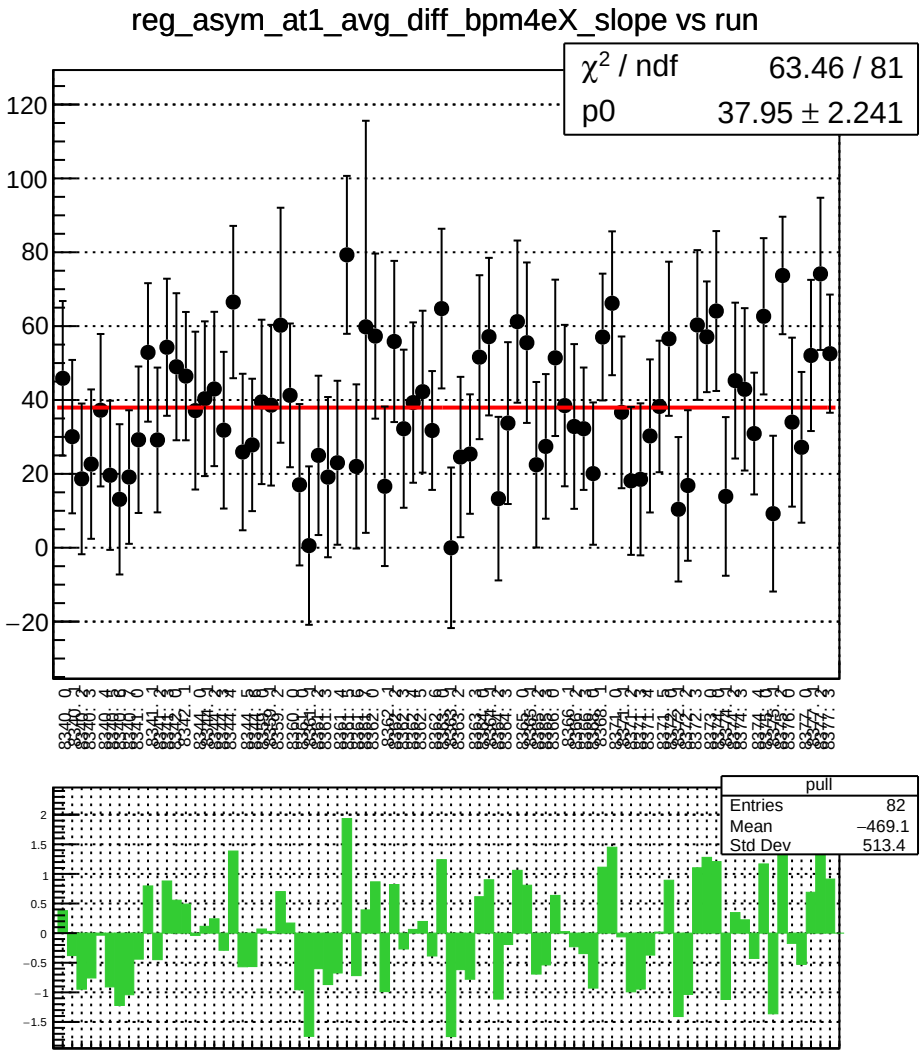

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 7.503 / 81
p0 130.7 ± 0.7232
145
140
135
130
125
120
115
pull
Entries 82
Mean 1549
Std Dev 1480
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean −0.0004598
Std Dev 0.3025
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

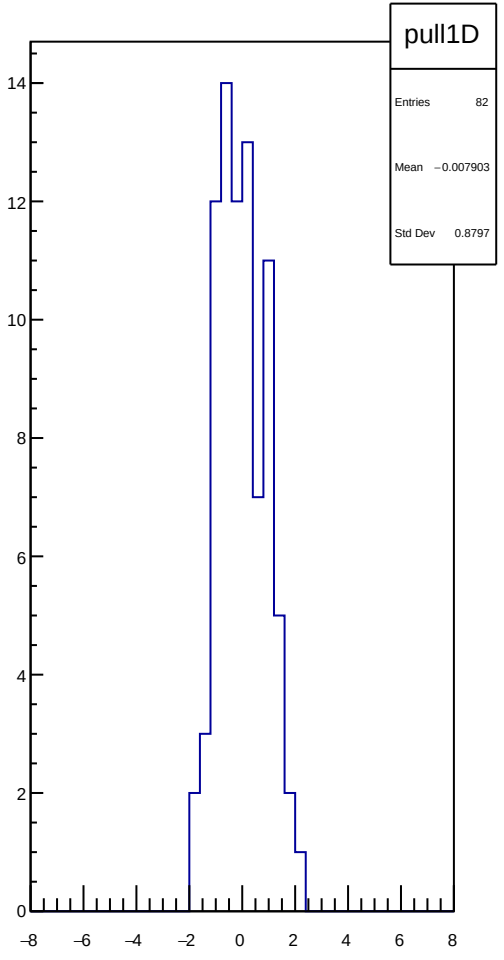

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 67.53 / 81
p0 −56.21 ± 1.955
pull
Entries 82
Mean −263.3
Std Dev 308.7

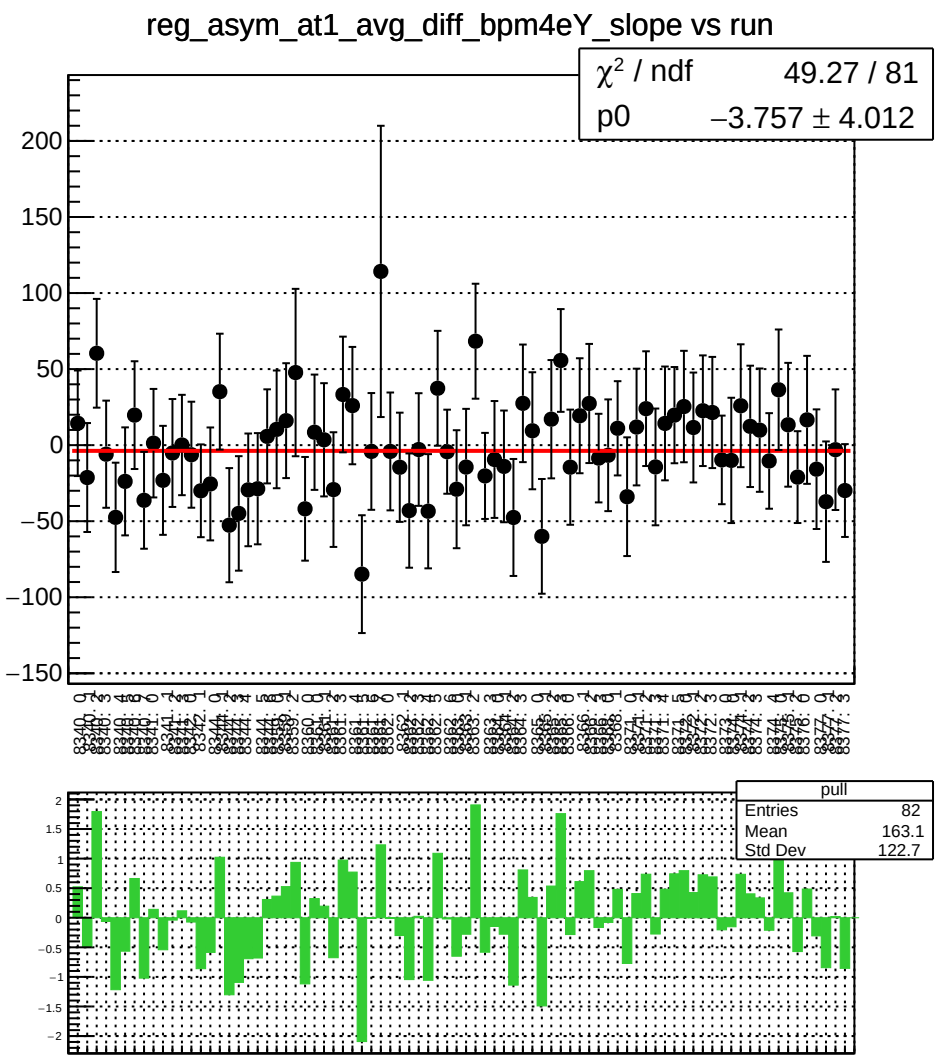

pull1D
Entries 82
Mean 0.01509
Std Dev 0.9074

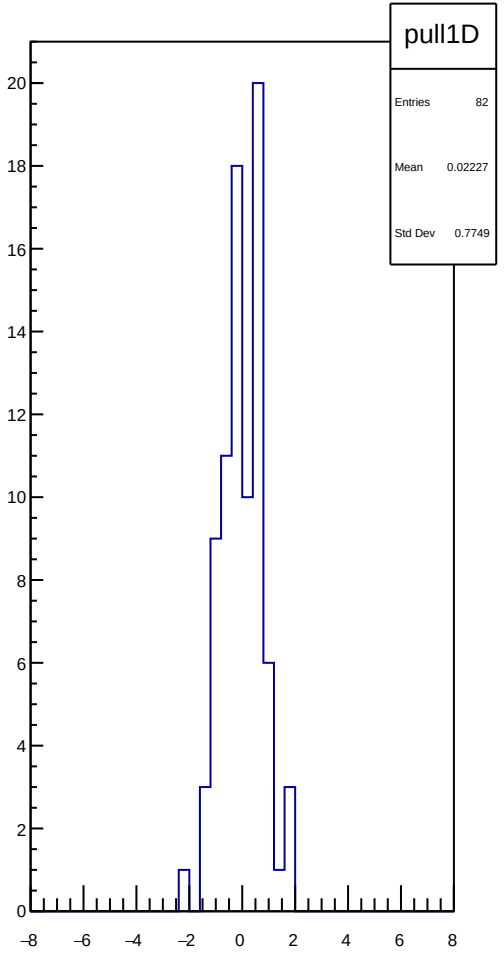

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.63 / 81
p0 3.415 ± 3.885
pull
Entries 82
Mean 94.39
Std Dev 55.68

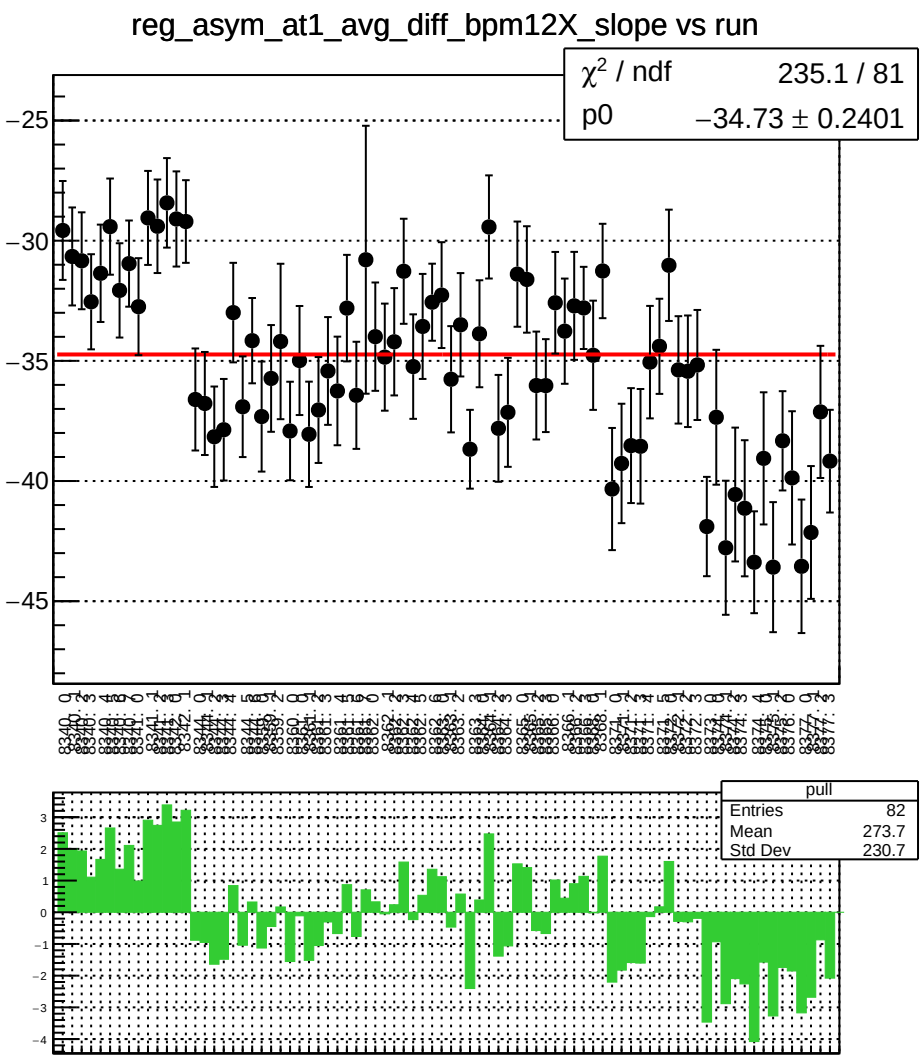

pull1D
Entries 82
Mean −0.02263
Std Dev 0.7777

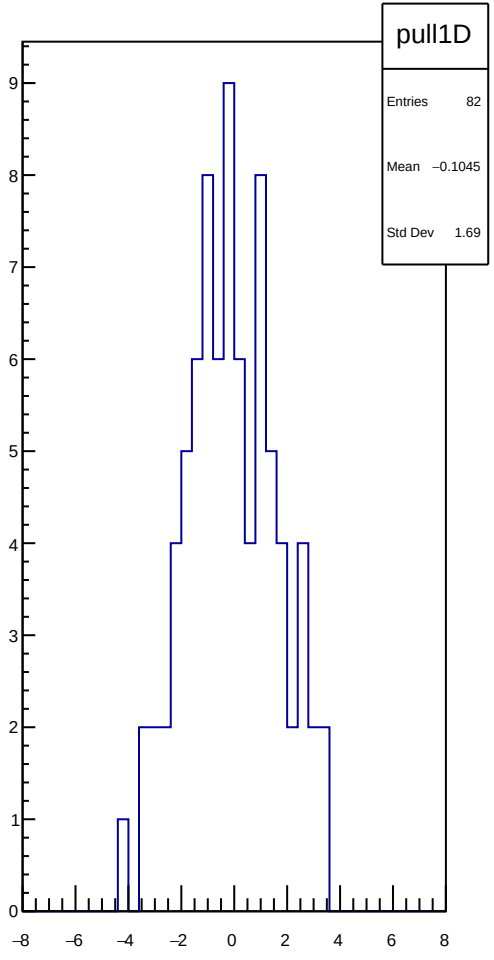

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 63.46 / 81
p0 37.95 ± 2.241
pull
Entries 82
Mean −469.1
Std Dev 513.4

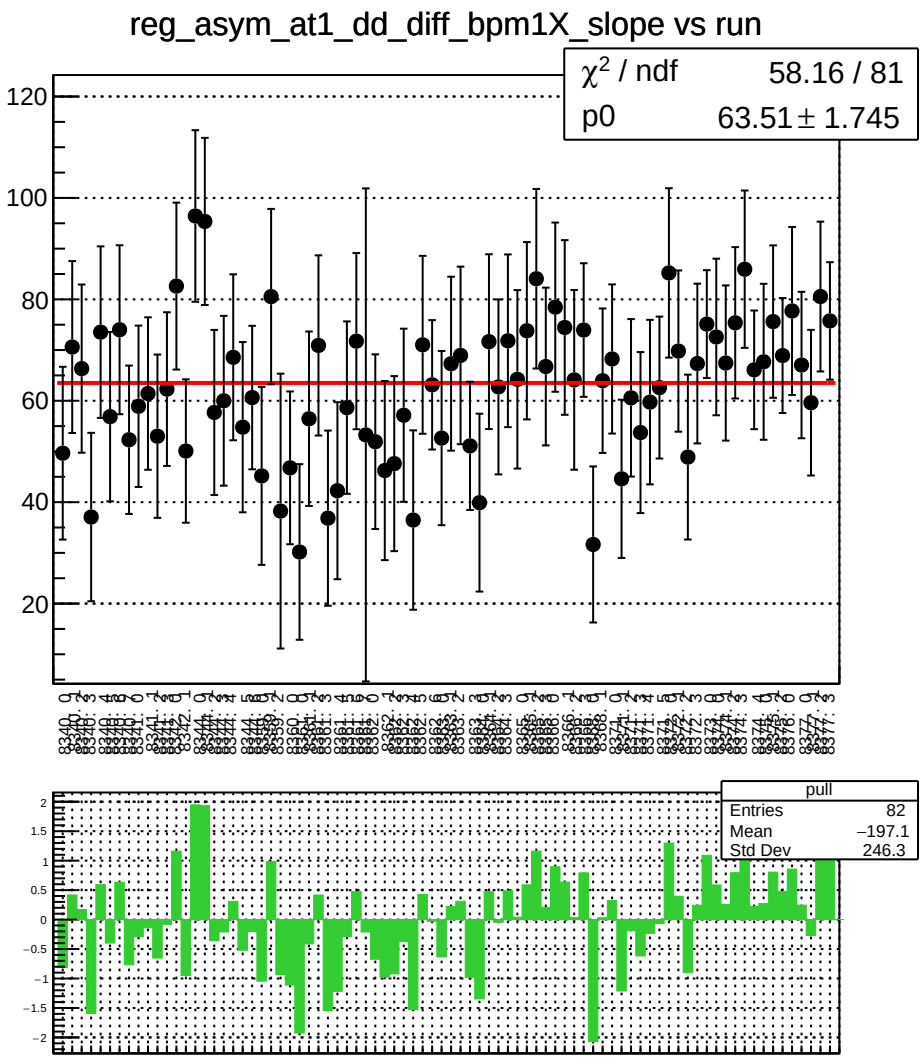

pull1D
Entries 82
Mean −0.007903
Std Dev 0.8797

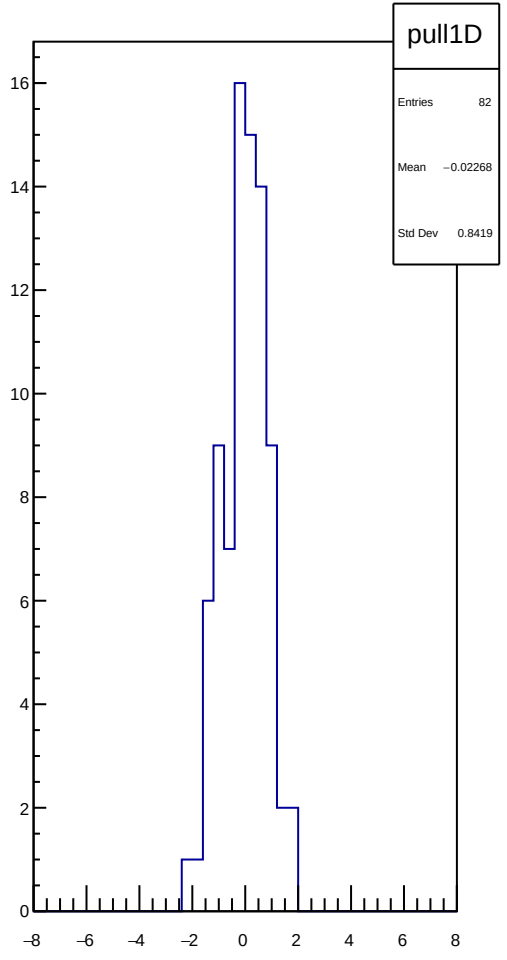

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.27 / 81
p0 −3.757 ± 4.012
pull
Entries 82
Mean 163.1
Std Dev 122.7

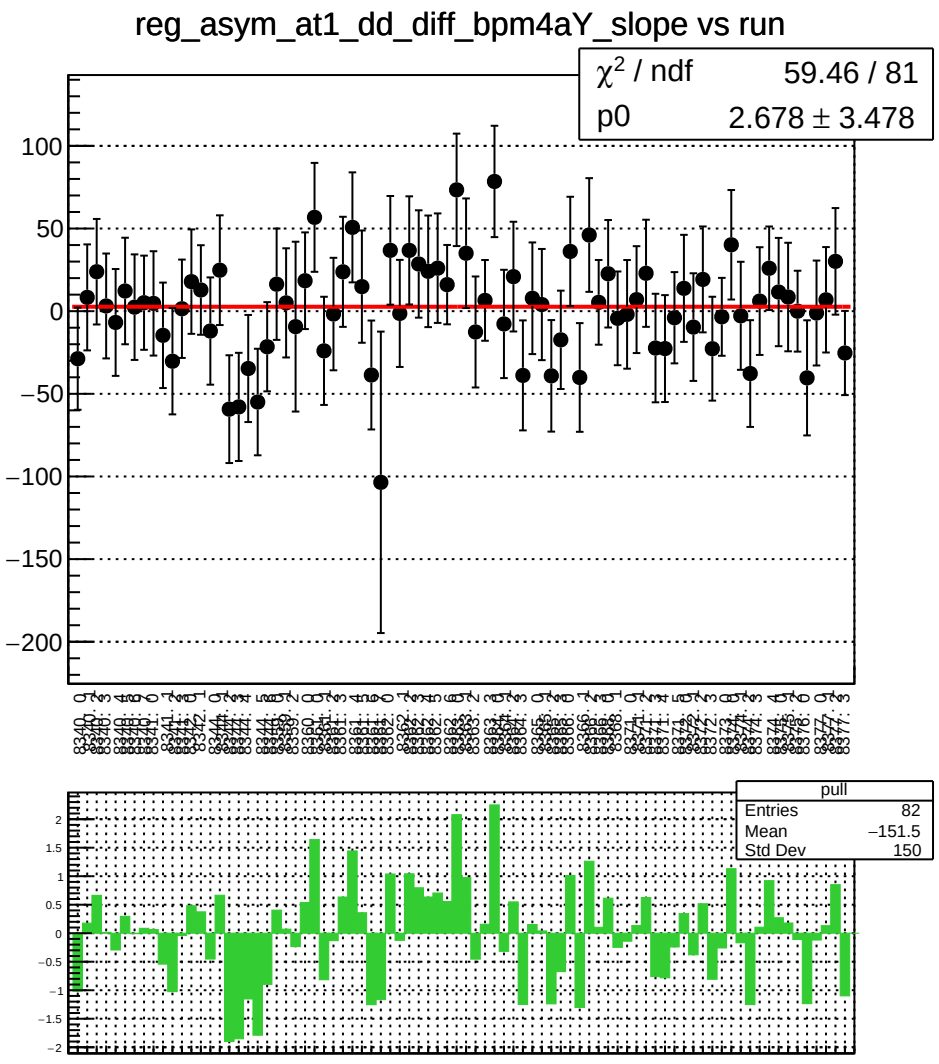

pull1D
Entries 82
Mean 0.02227
Std Dev 0.7749

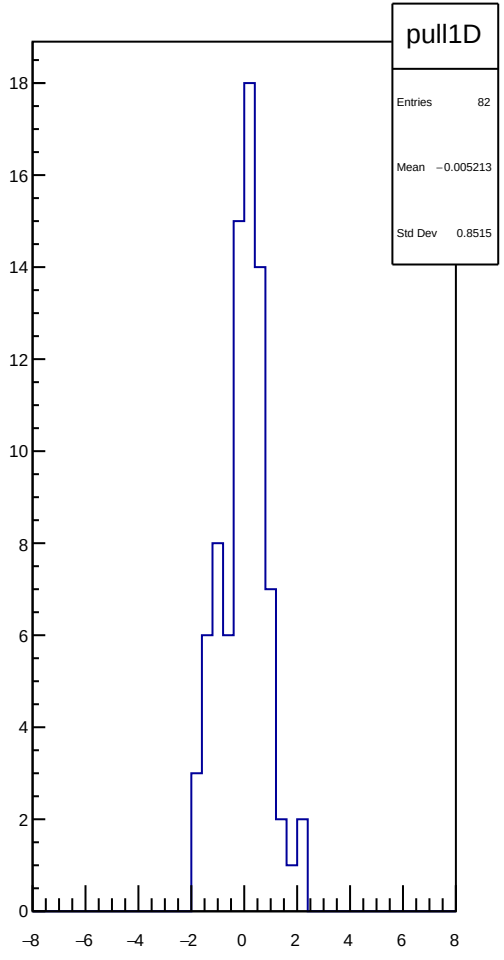

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 235.1 / 81
p0 −34.73 ± 0.2401
pull
Entries 82
Mean 273.7
Std Dev 230.7

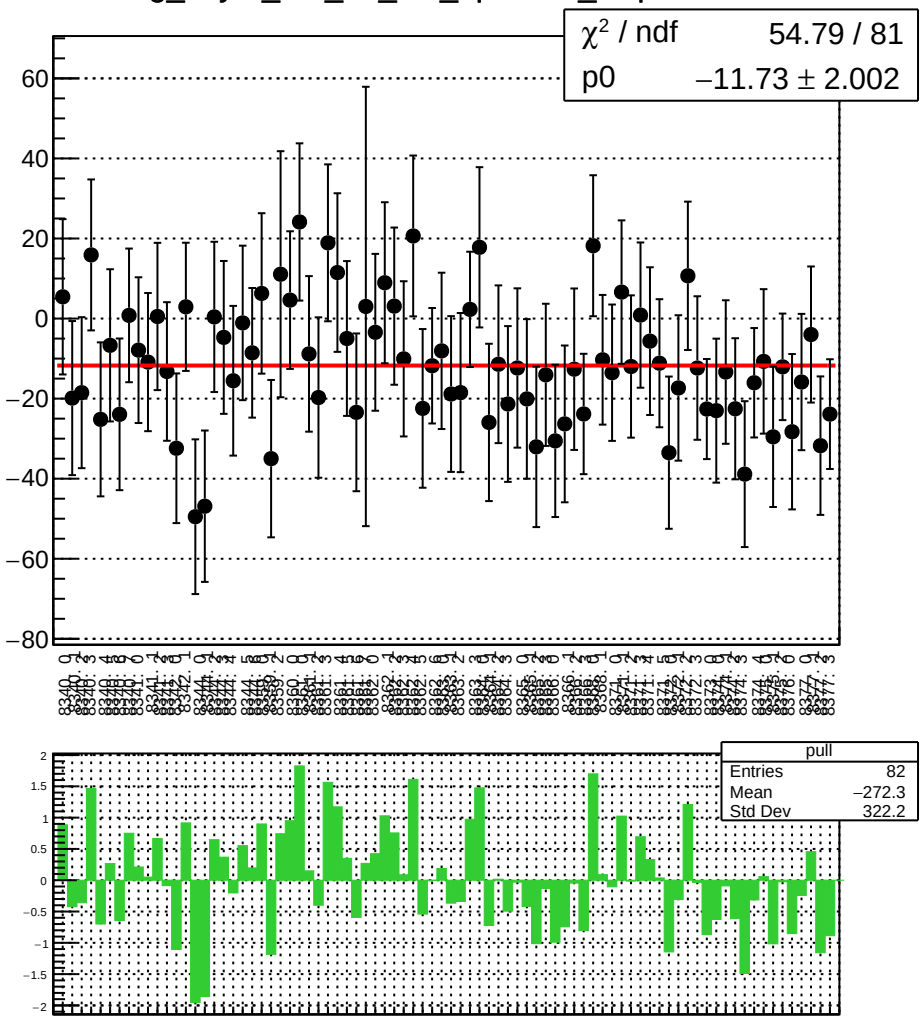

pull1D
Entries 82
Mean −0.1045
Std Dev 1.69

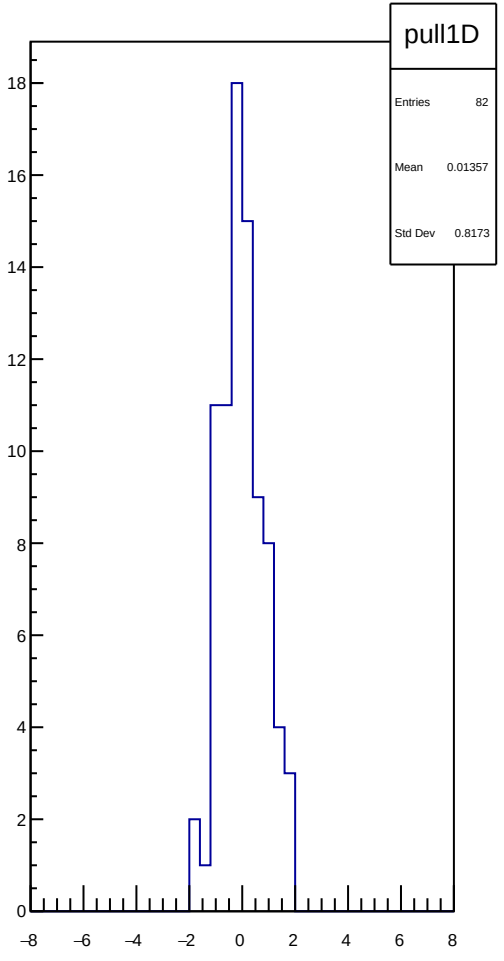

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ^2 / ndf 58.16 / 81
p0 63.51 ± 1.745
pull
Entries 82
Mean −197.1
Std Dev 246.3

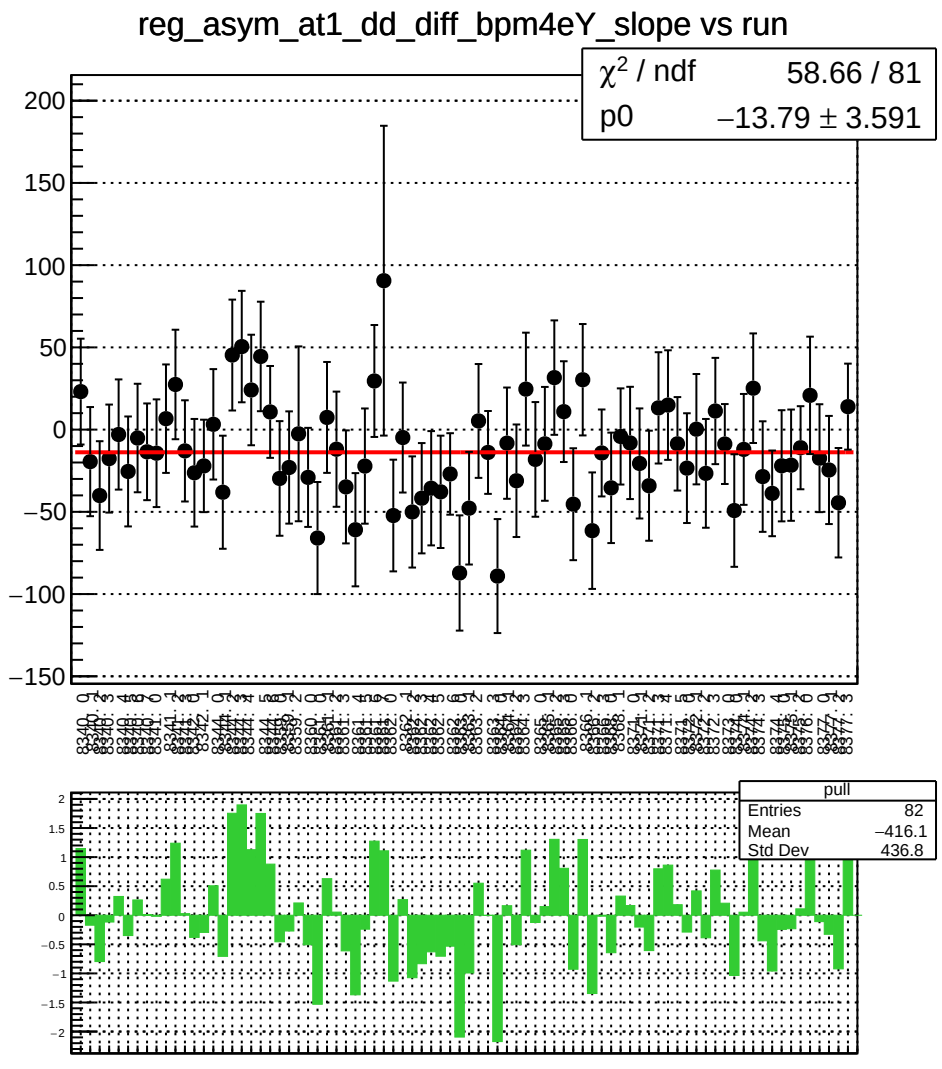

pull1D
Entries 82
Mean −0.02268
Std Dev 0.8419

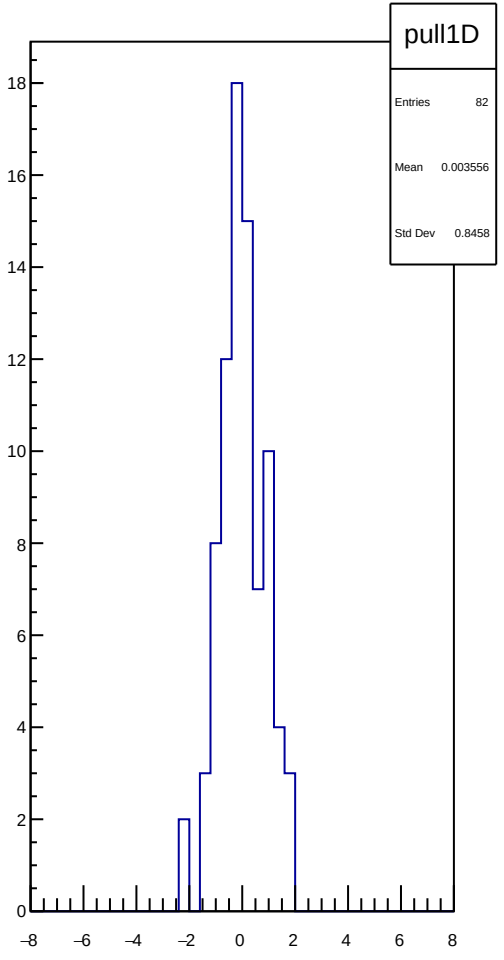

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 59.46 / 81
p0 2.678 ± 3.478
pull
Entries 82
Mean −151.5
Std Dev 150

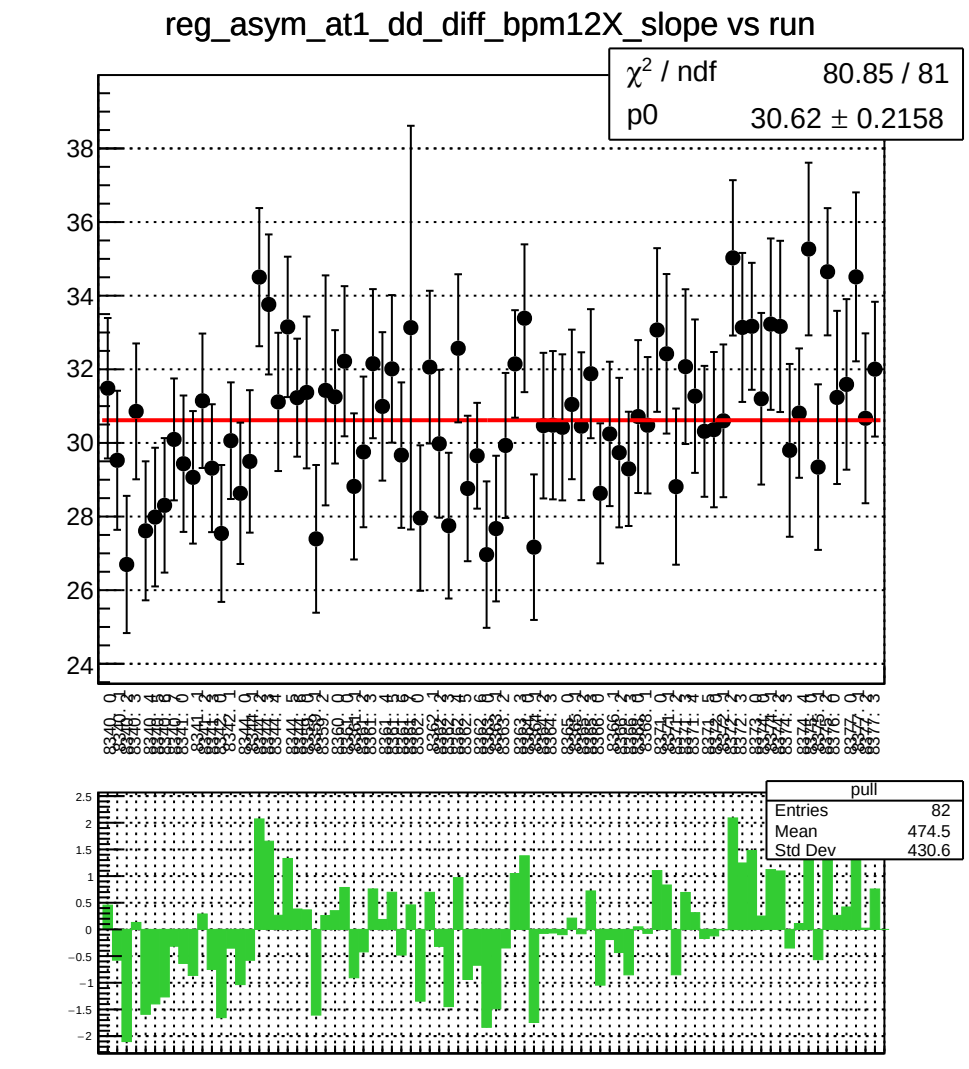

pull1D
Entries 82
Mean −0.005213
Std Dev 0.8515

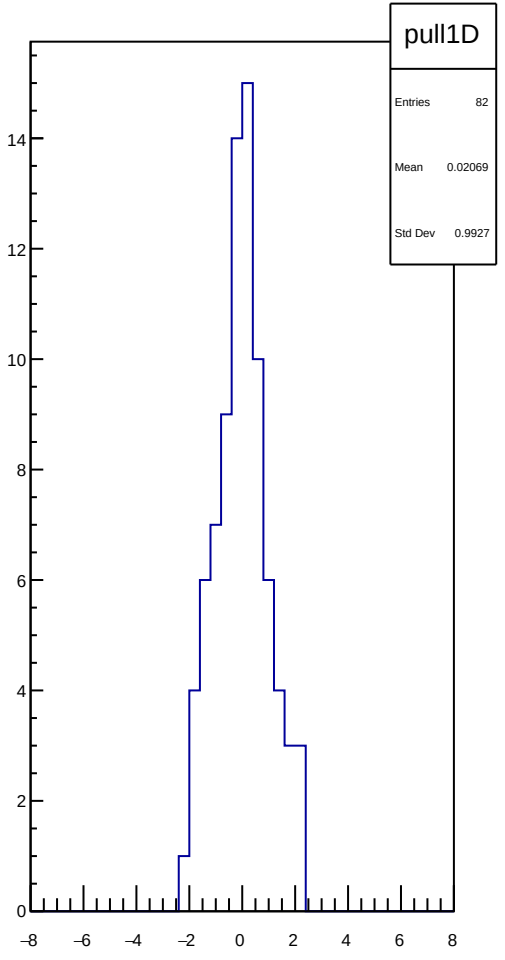

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.79 / 81
p0 −11.73 ± 2.002
pull
Entries 82
Mean −272.3
Std Dev 322.2

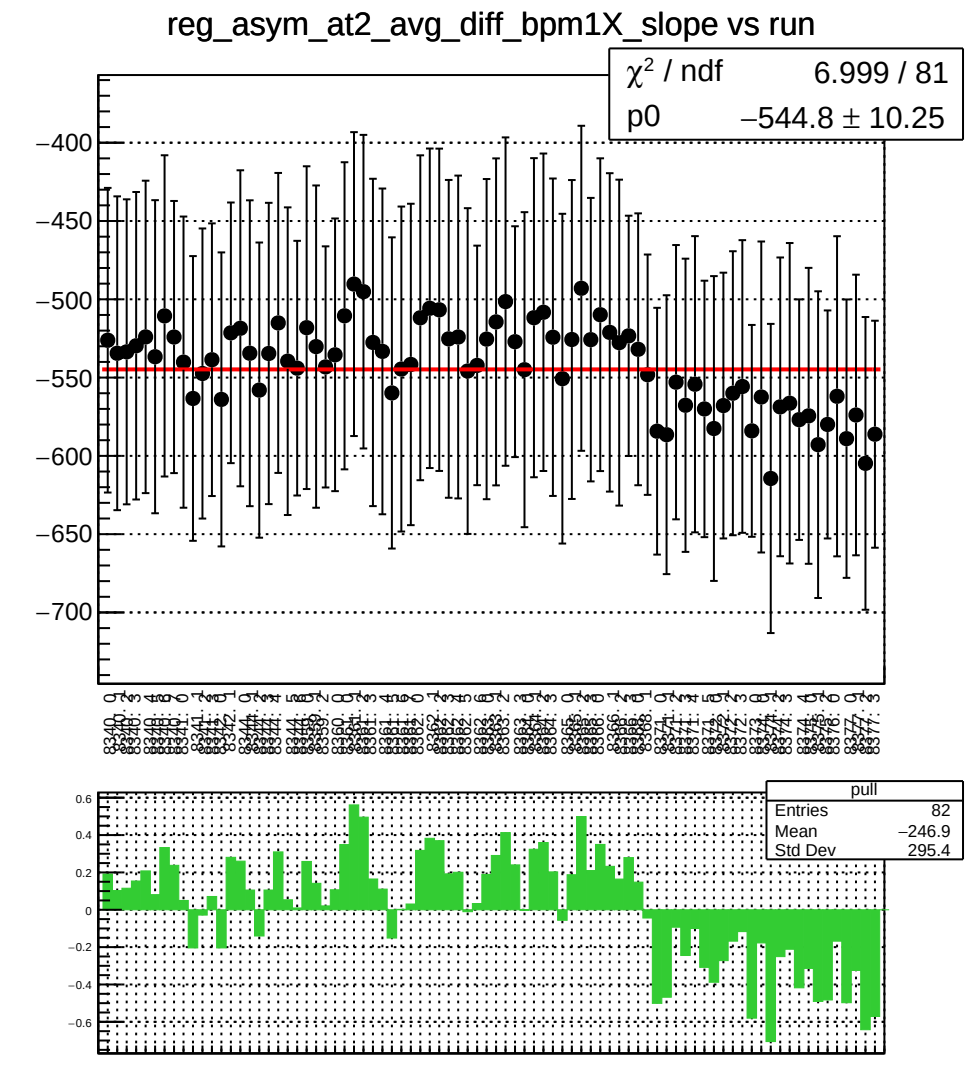

pull1D
Entries 82
Mean 0.01357
Std Dev 0.8173

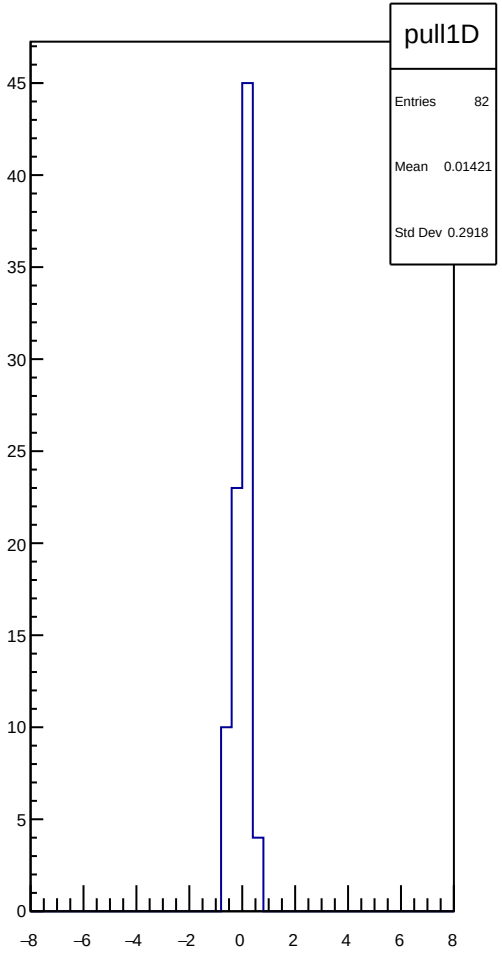

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.66 / 81
p0 −13.79 ± 3.591
pull
Entries 82
Mean −416.1
Std Dev 436.8

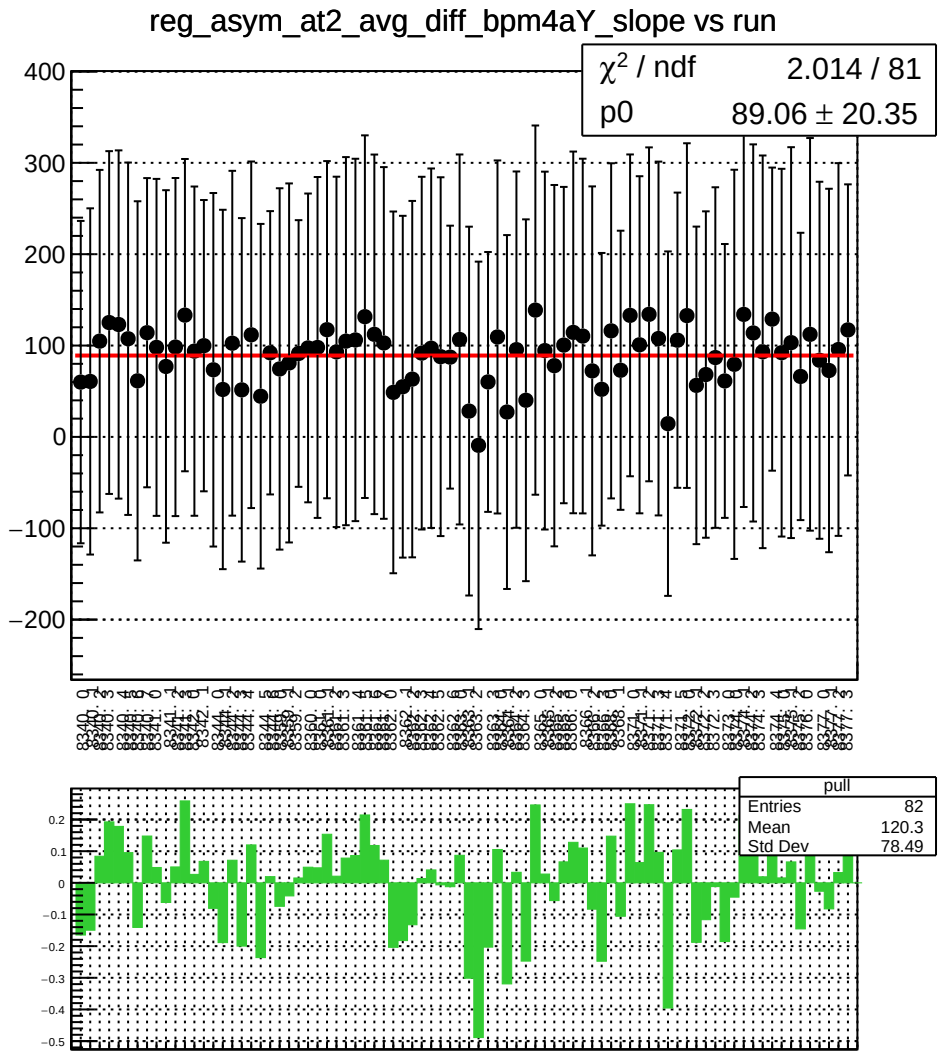

pull1D
Entries 82
Mean 0.003556
Std Dev 0.8458

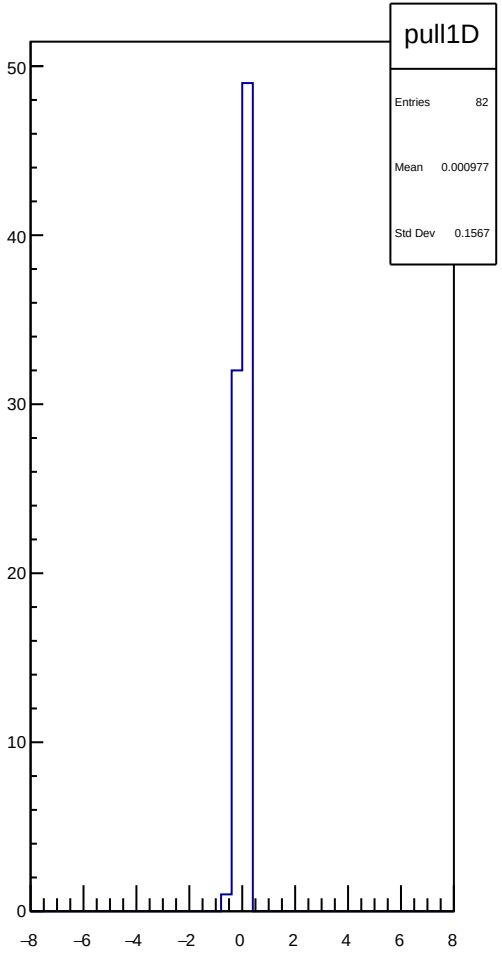

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 80.85 / 81
p0 30.62 ± 0.2158
pull
Entries 82
Mean 474.5
Std Dev 430.6

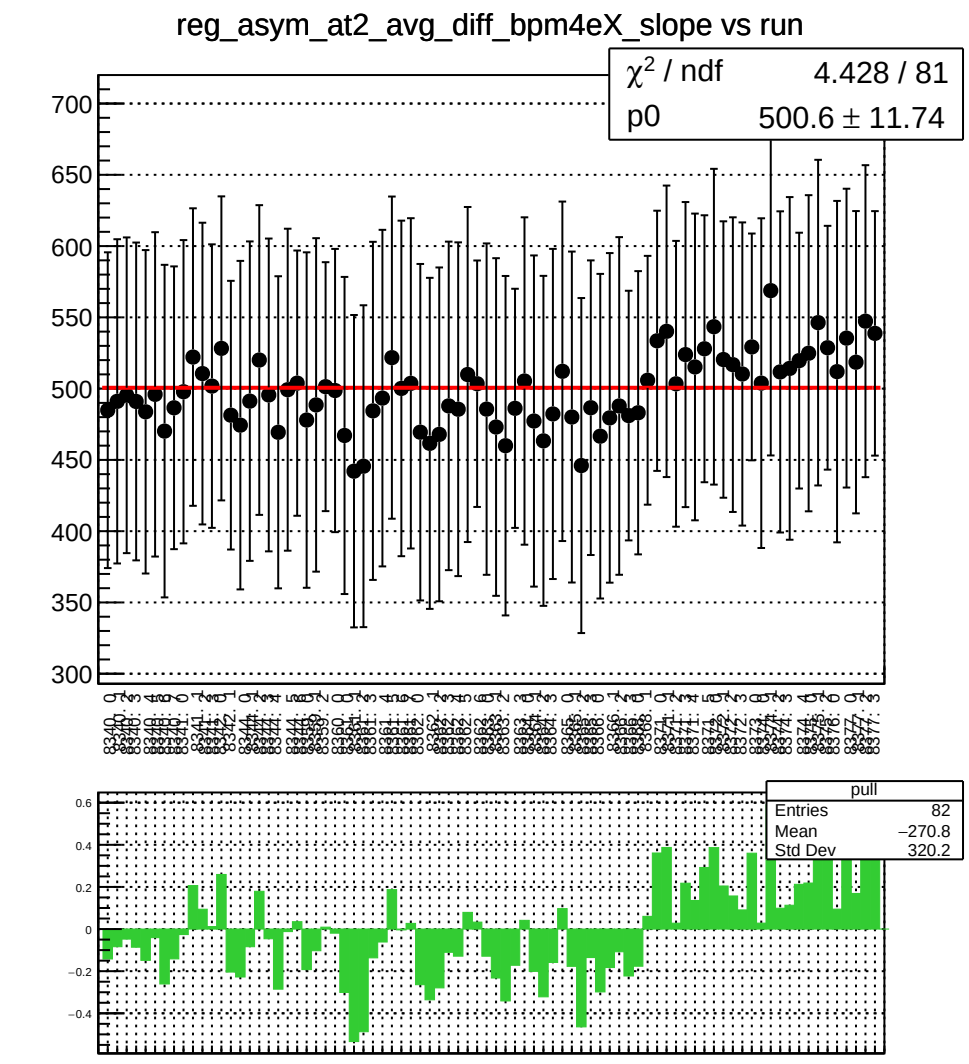

pull1D
Entries 82
Mean 0.02069
Std Dev 0.9927

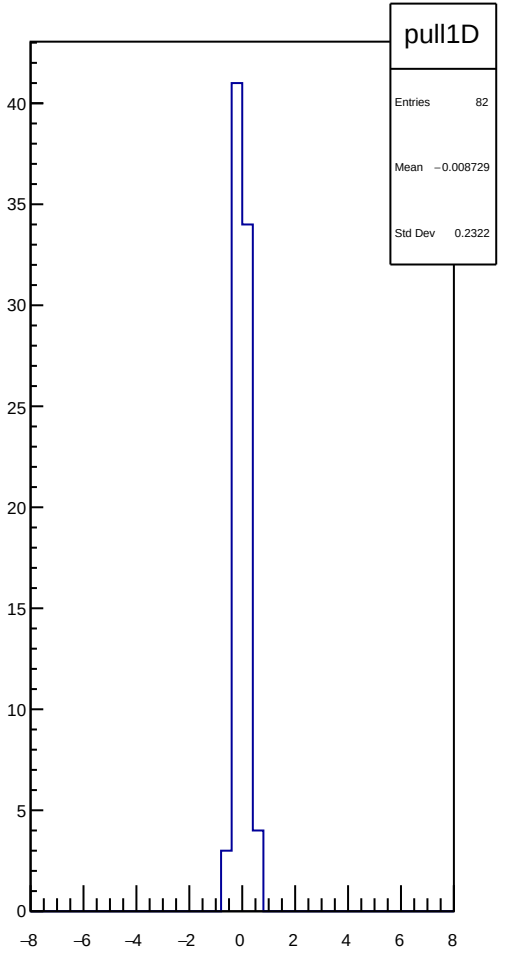

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 6.999 / 81
p0 −544.8 ± 10.25
pull
Entries 82
Mean −246.9
Std Dev 295.4

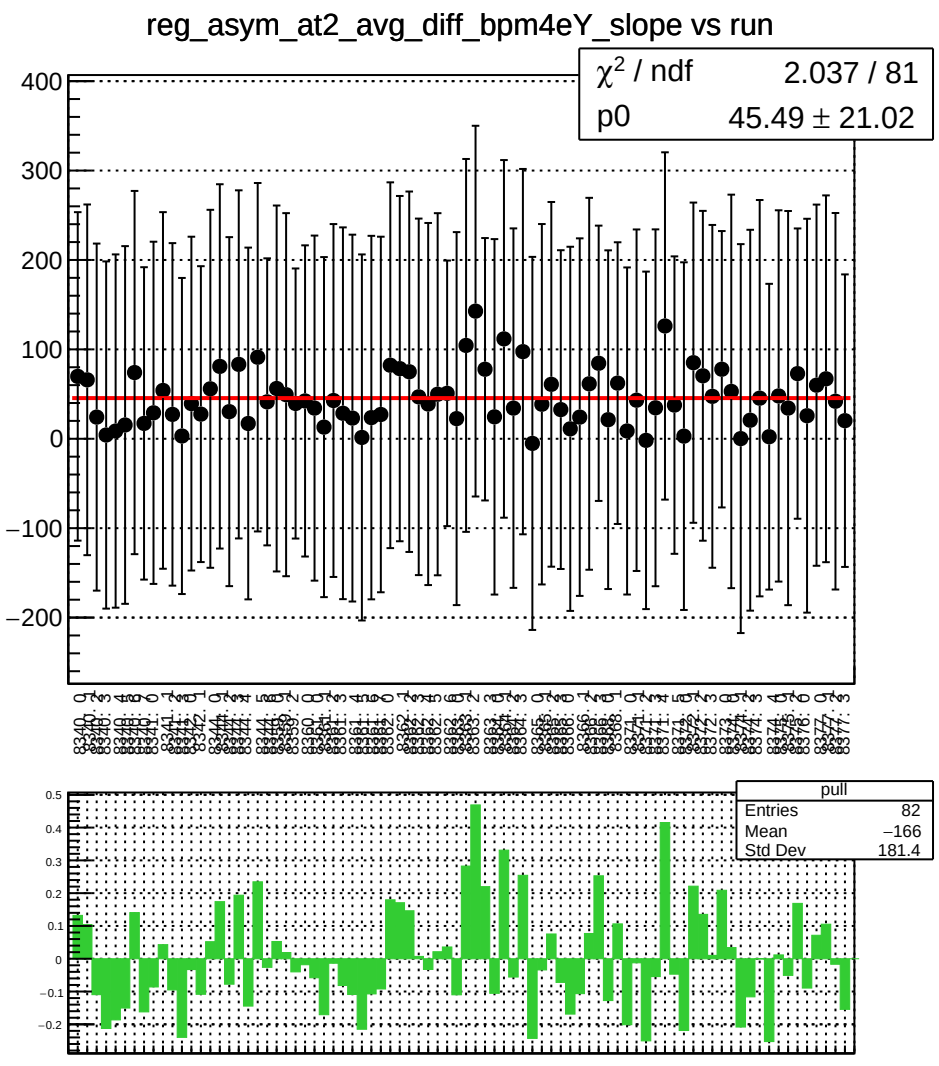

pull1D
Entries 82
Mean 0.01421
Std Dev 0.2918

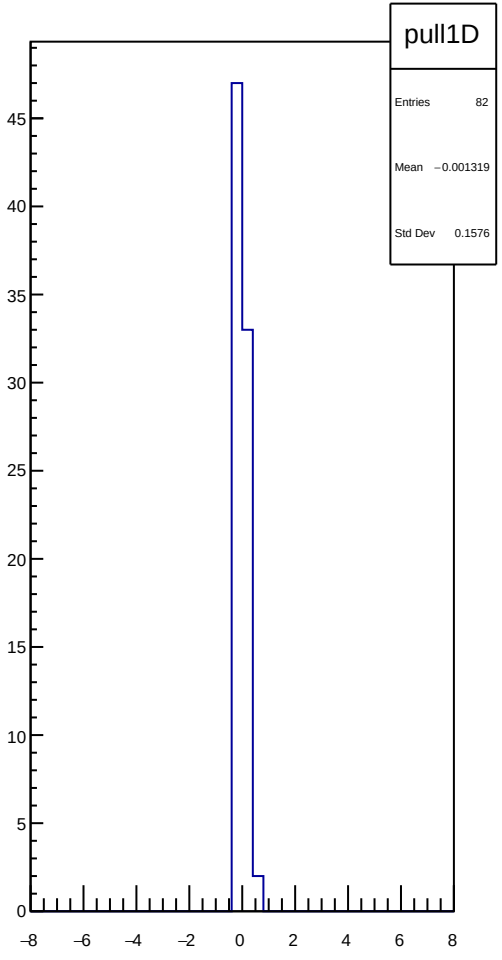

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.014 / 81
p0 89.06 ± 20.35
pull
Entries 82
Mean 120.3
Std Dev 78.49

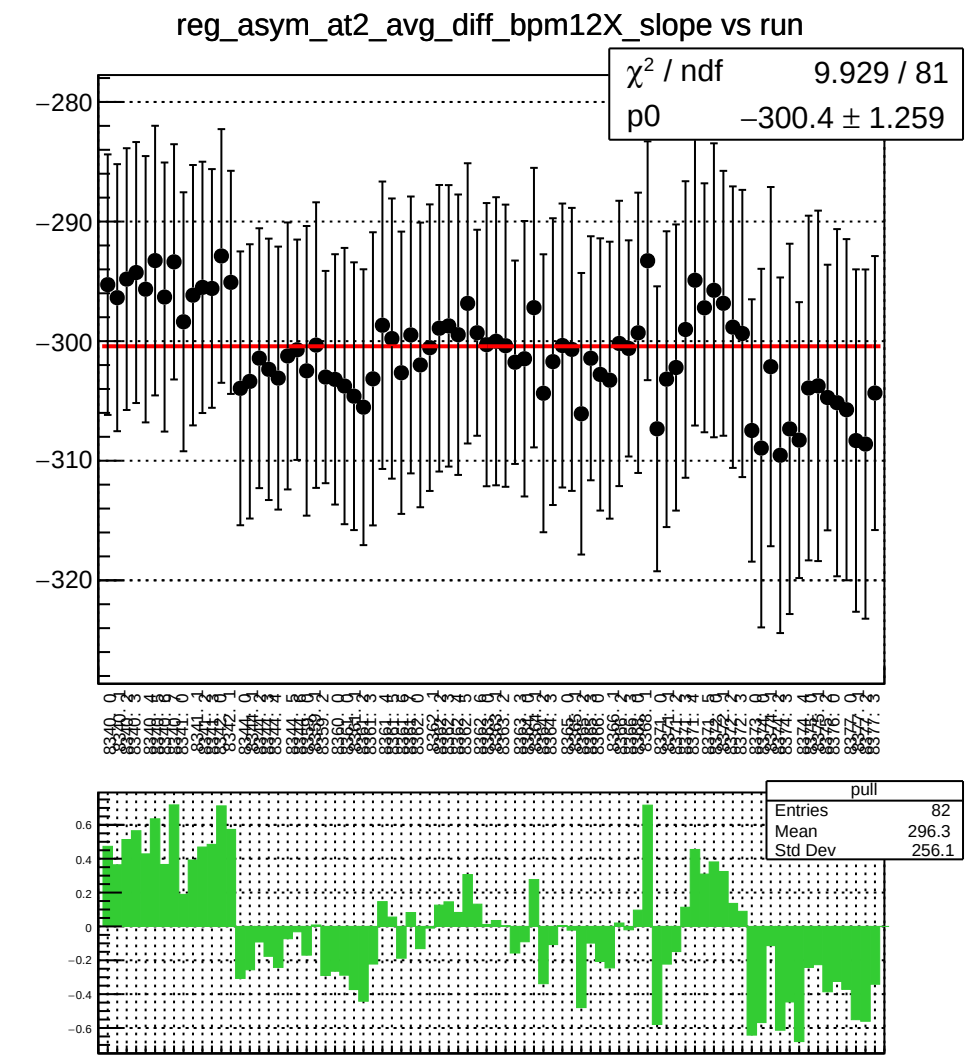

pull1D
Entries 82
Mean 0.000977
Std Dev 0.1567

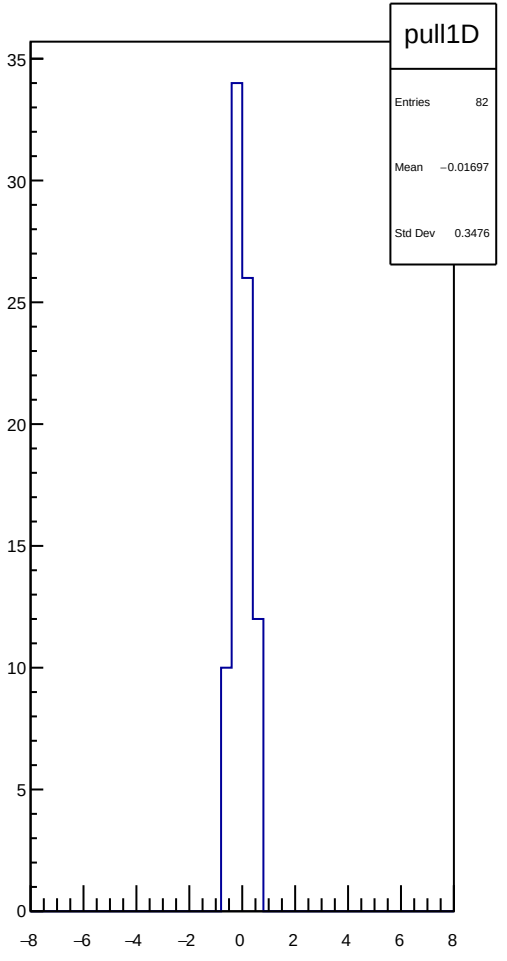

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.428 / 81
p0 500.6 ± 11.74
pull
Entries 82
Mean −270.8
Std Dev 320.2

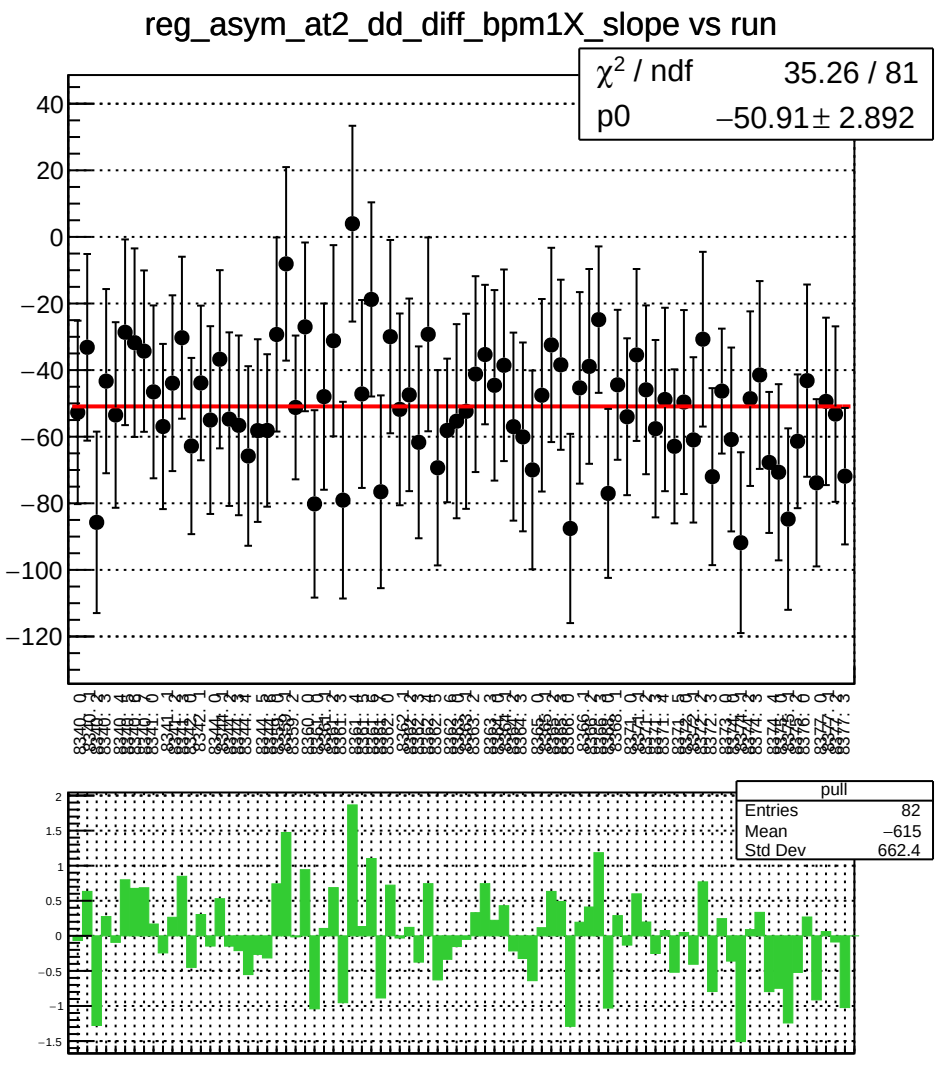

pull1D
Entries 82
Mean −0.008729
Std Dev 0.2322

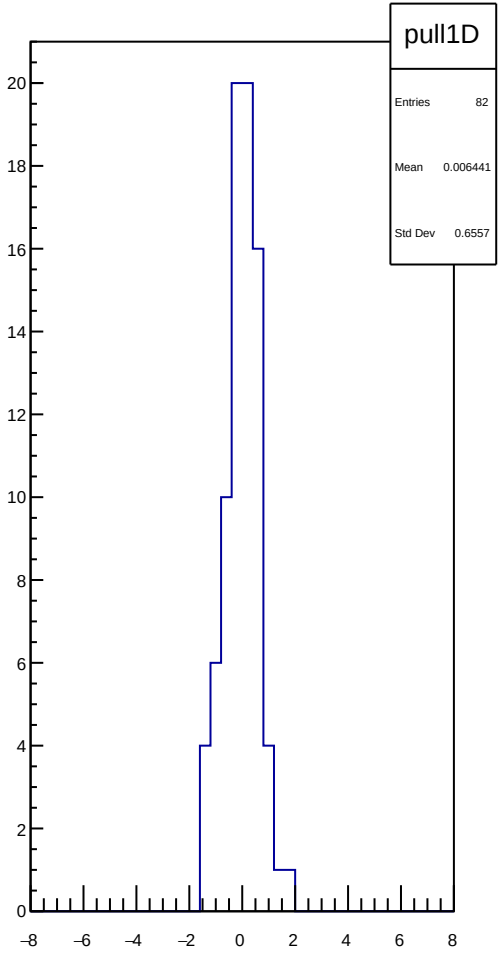

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.037 / 81
p0 45.49 ± 21.02
pull
Entries 82
Mean −166
Std Dev 181.4

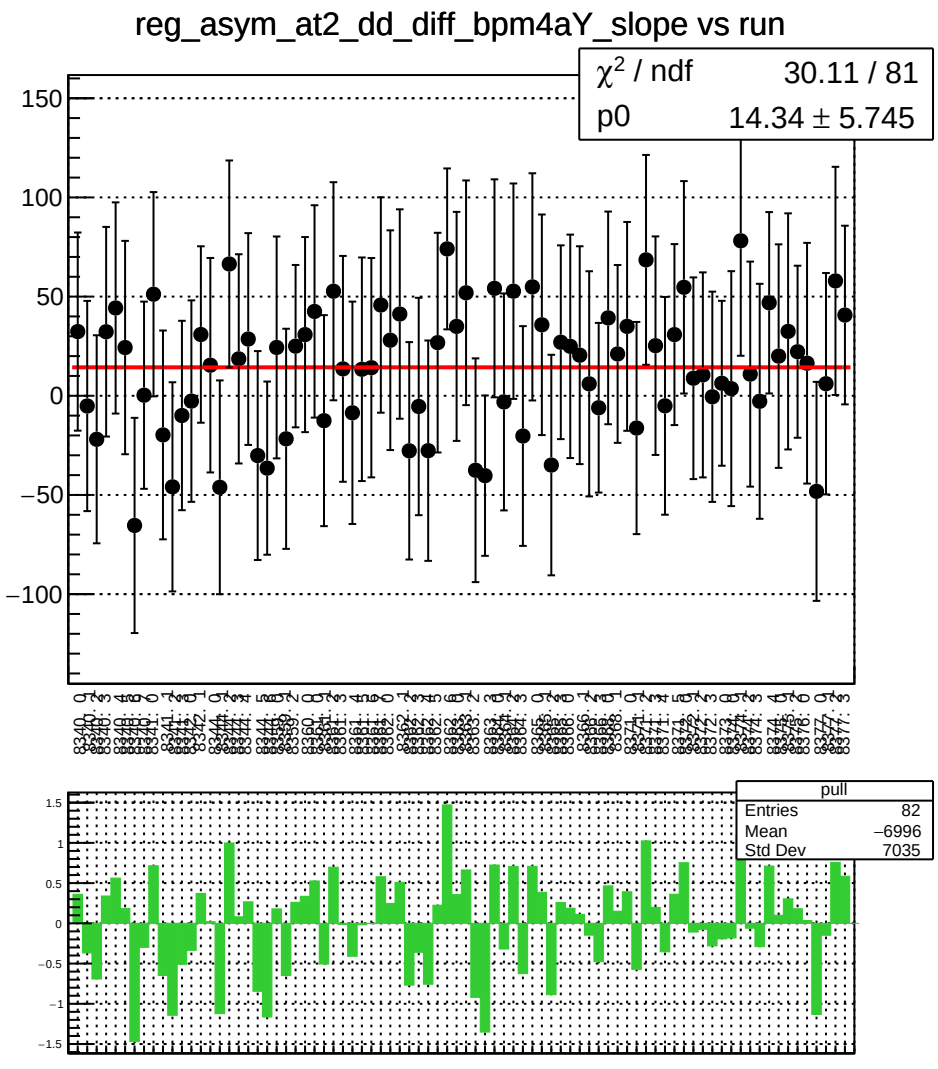

pull1D
Entries 82
Mean −0.001319
Std Dev 0.1576

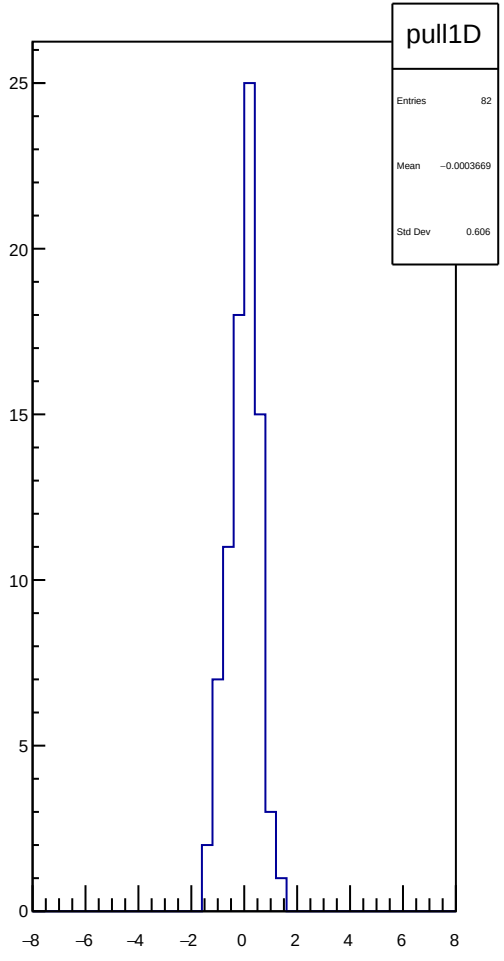

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 9.929 / 81
p0 −300.4 ± 1.259
−280
−290
−300
−310
−320
pull
Entries 82
Mean 296.3
Std Dev 256.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

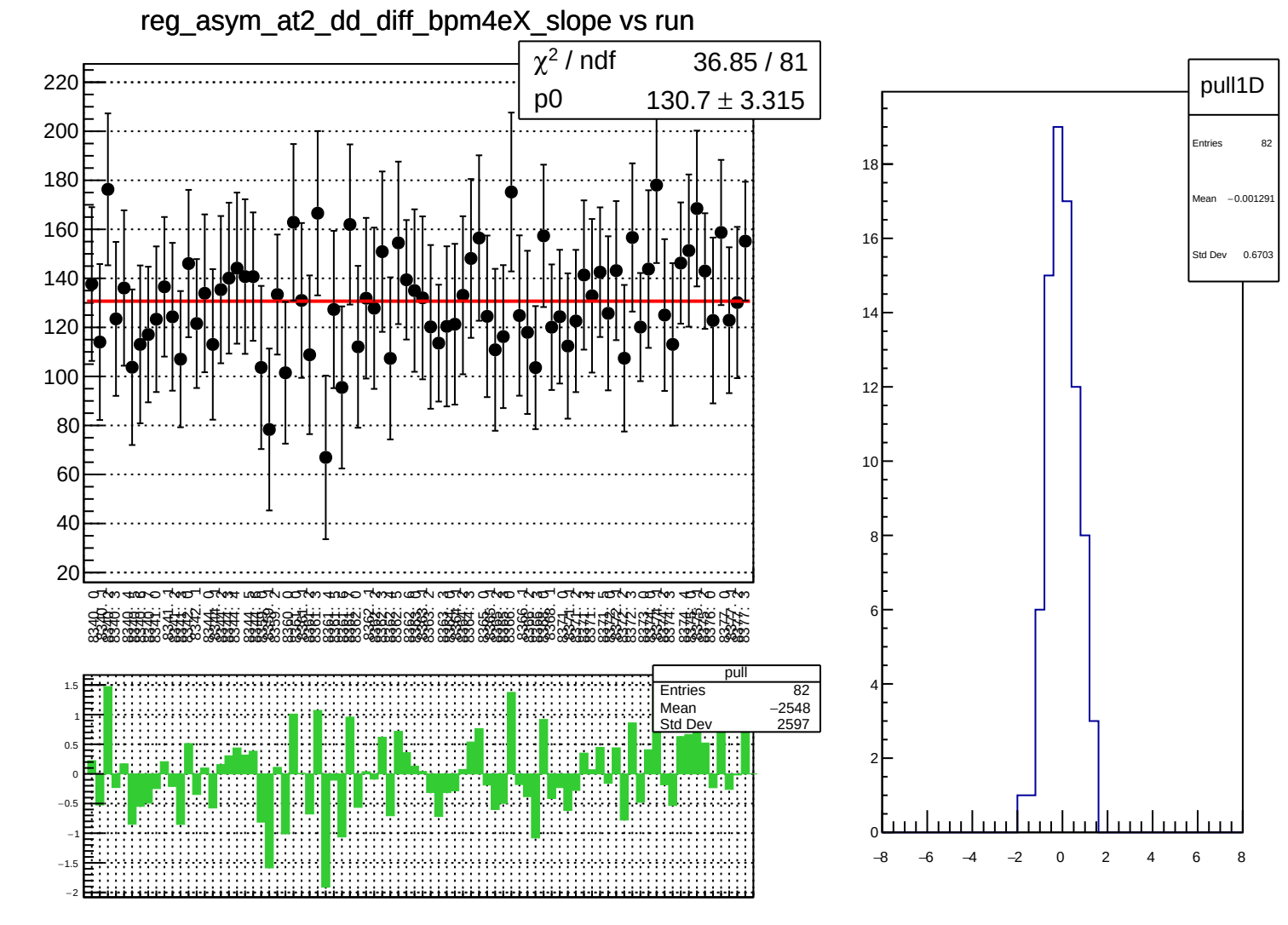

pull1D
Entries 82
Mean −0.01697
Std Dev 0.3476
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

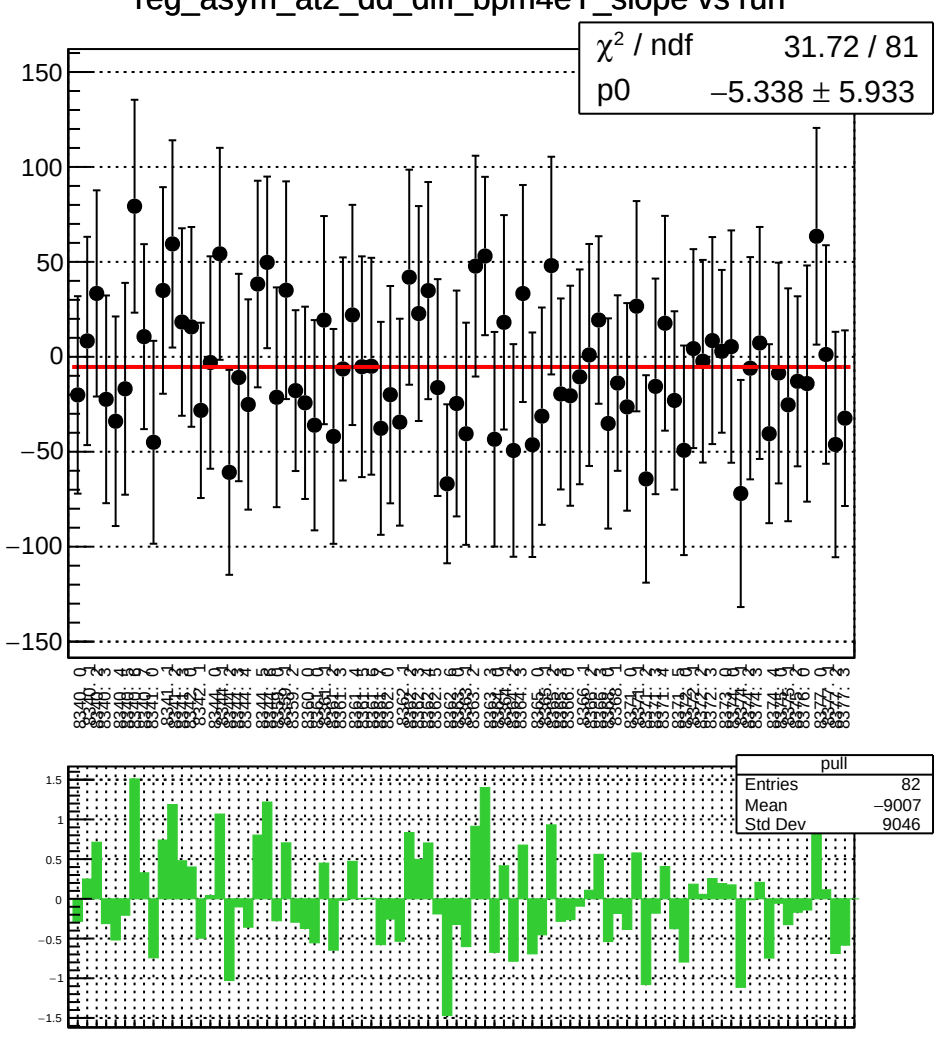

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 35.26 / 81
p0 −50.91 ± 2.892
pull
Entries 82
Mean −615
Std Dev 662.4

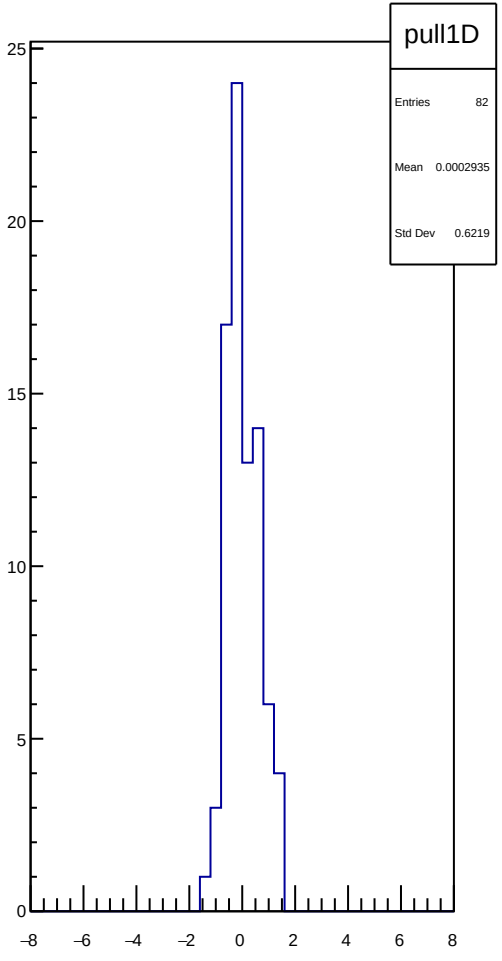

pull1D
Entries 82
Mean 0.006441
Std Dev 0.6557

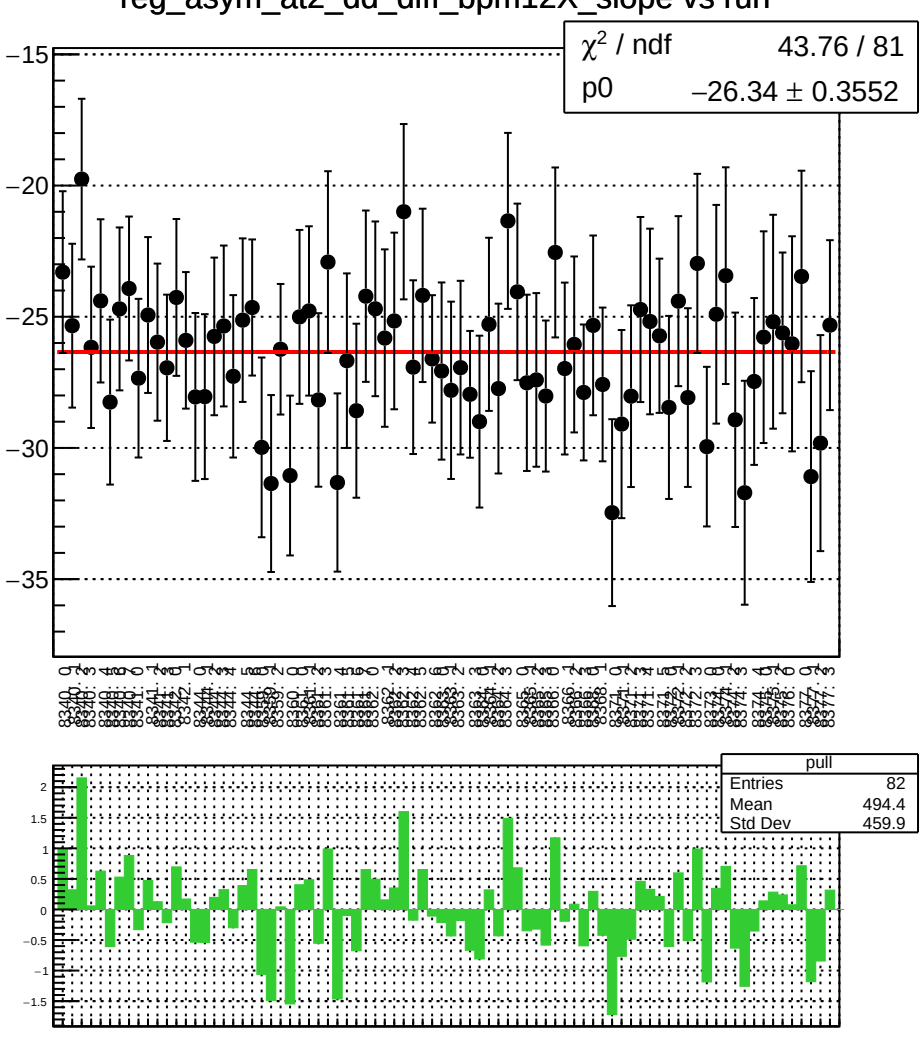

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.11 / 81
p0 14.34 ± 5.745
150
100
50
0
−50
−100
pull
Entries 82
Mean −6996
Std Dev 7035
1.5
1
0.5
0
−0.5
−1
−1.5

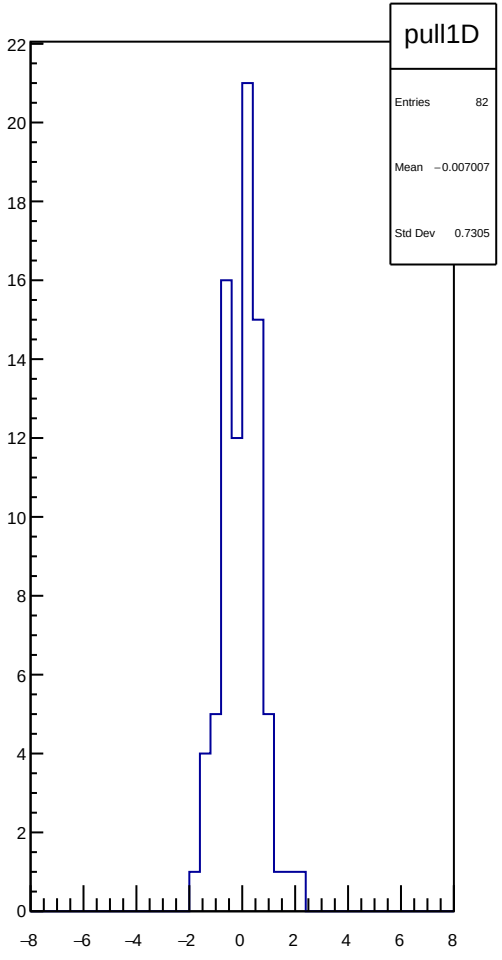

pull1D
Entries 82
Mean −0.0003669
Std Dev 0.606
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

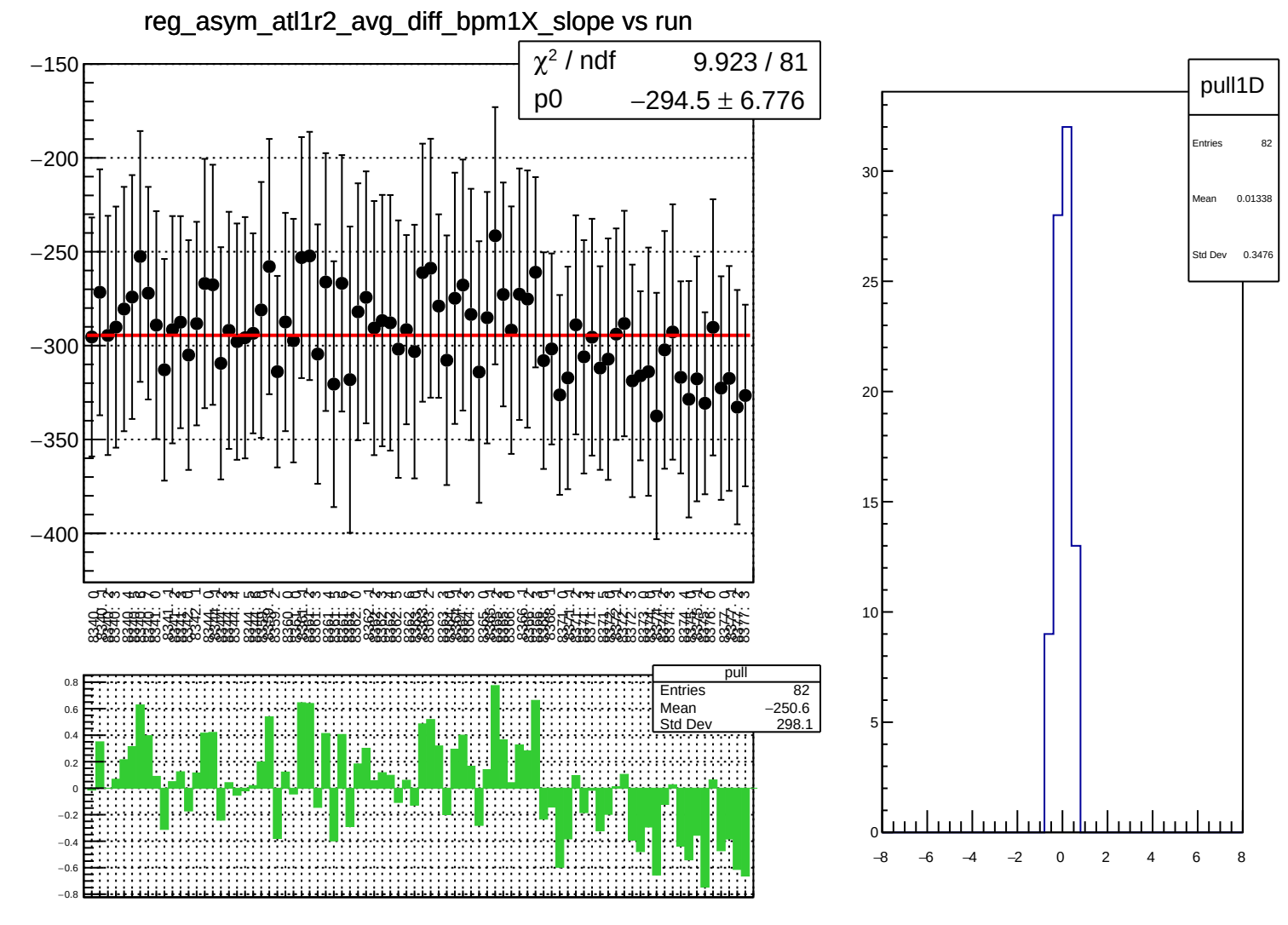

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.85 / 81
p0 130.7 ± 3.315
pull
Entries 82
Mean −2548
Std Dev 2597
pull1D
Entries 82
Mean −0.001291
Std Dev 0.6703

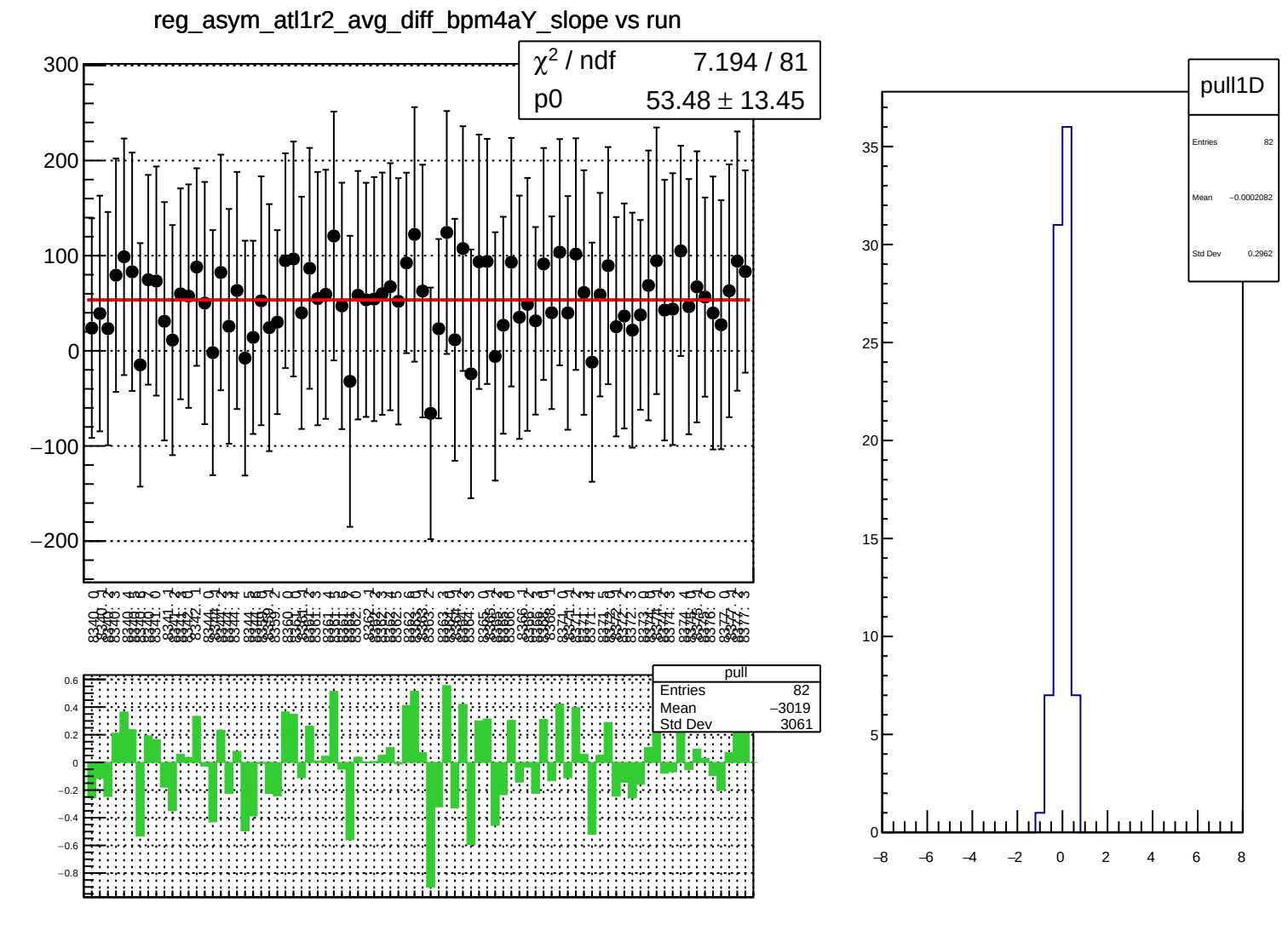

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.72 / 81
p0 −5.338 ± 5.933
pull
Entries 82
Mean −9007
Std Dev 9046

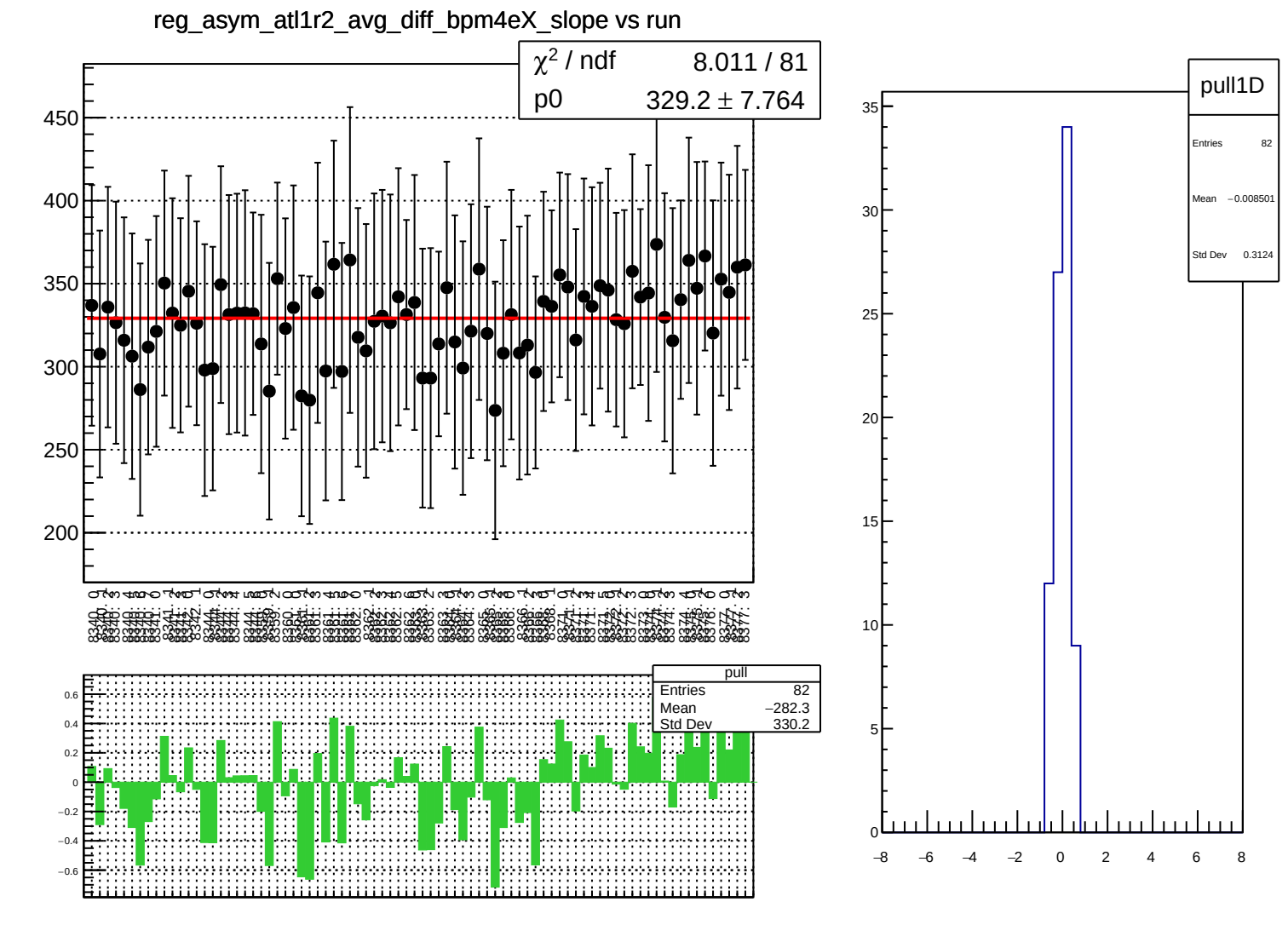

pull1D
Entries 82
Mean 0.0002935
Std Dev 0.6219

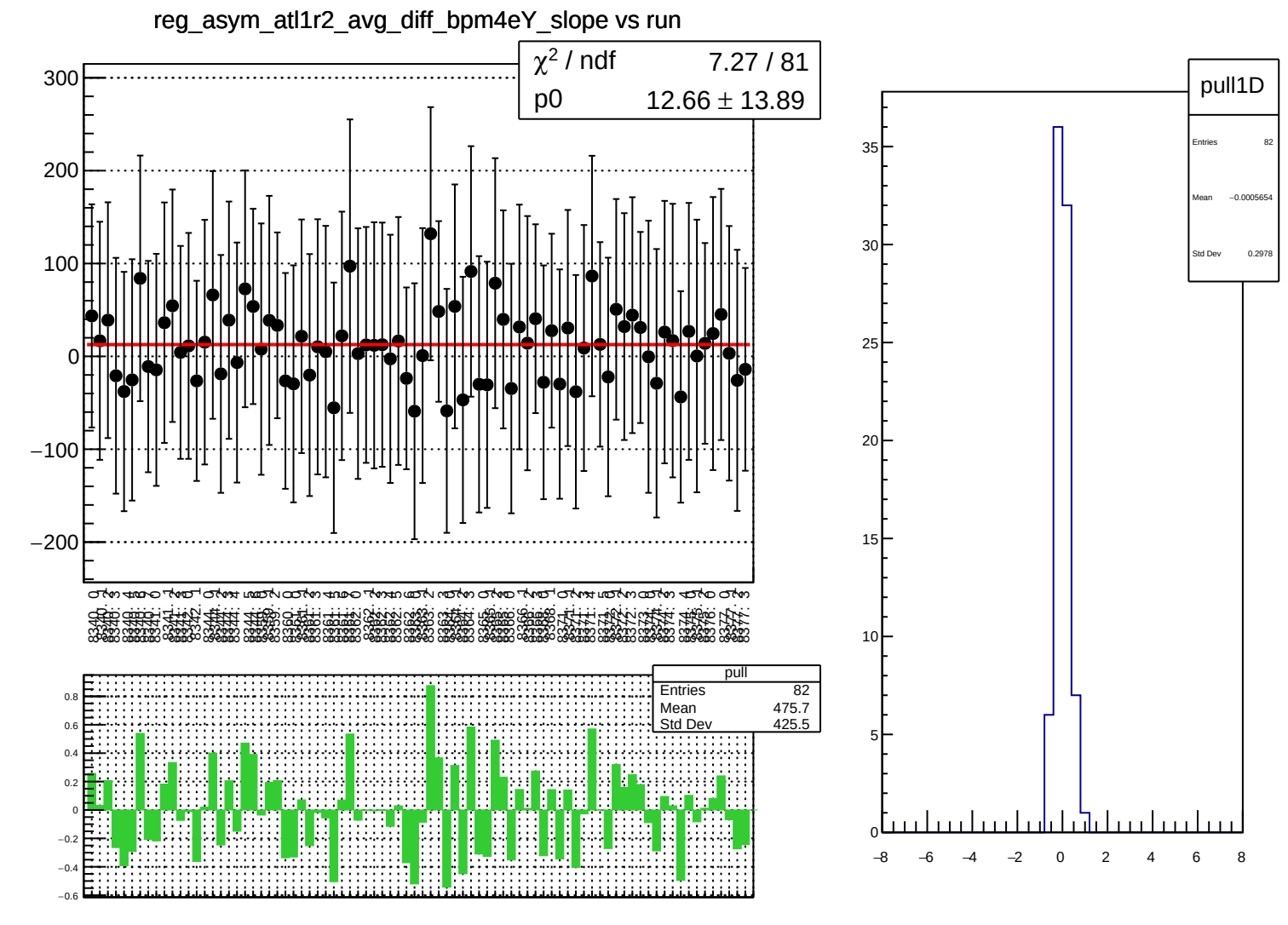

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 43.76 / 81
p0 −26.34 ± 0.3552
pull
Entries 82
Mean 494.4
Std Dev 459.9

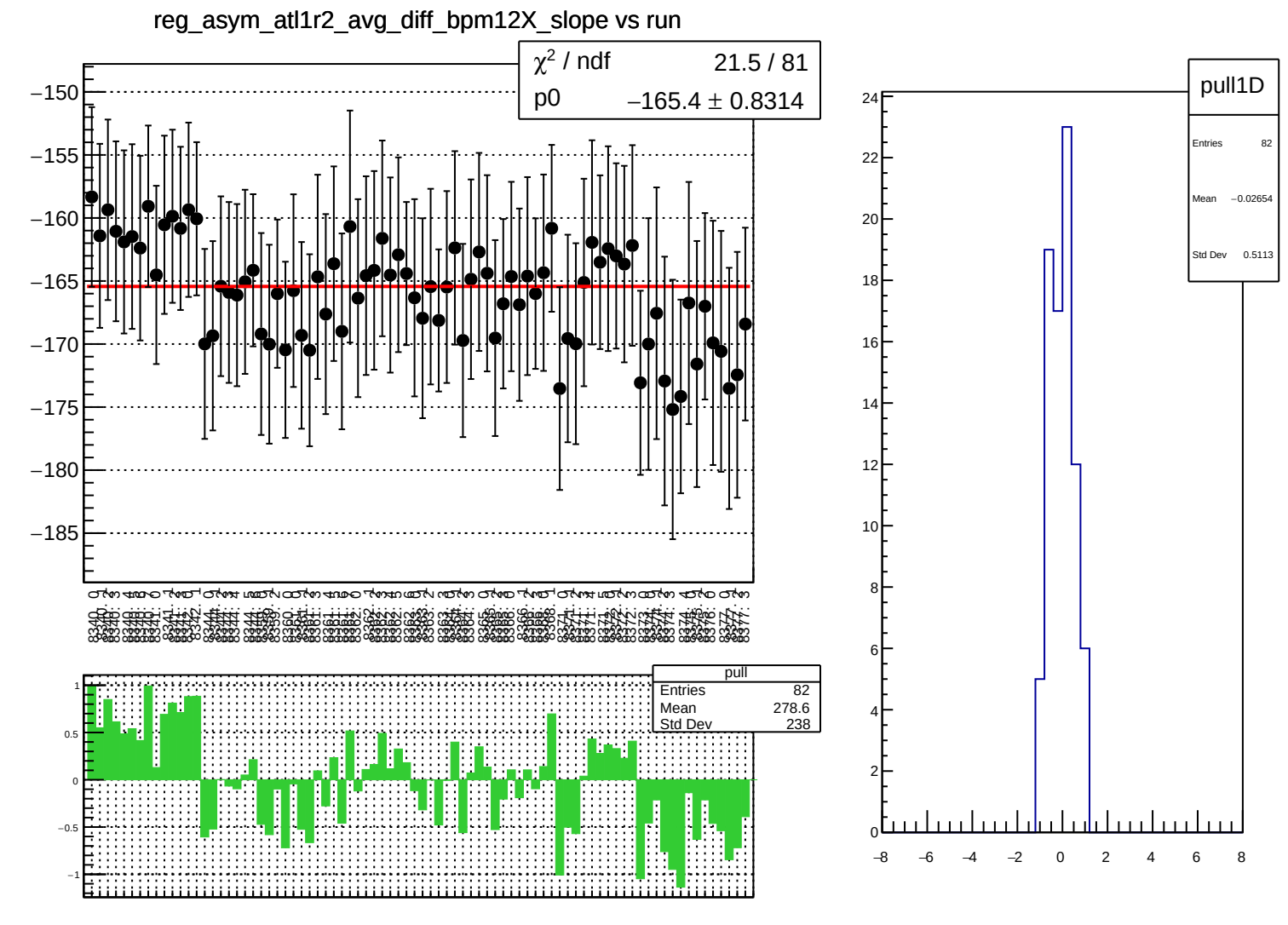

pull1D
Entries 82
Mean −0.007007
Std Dev 0.7305

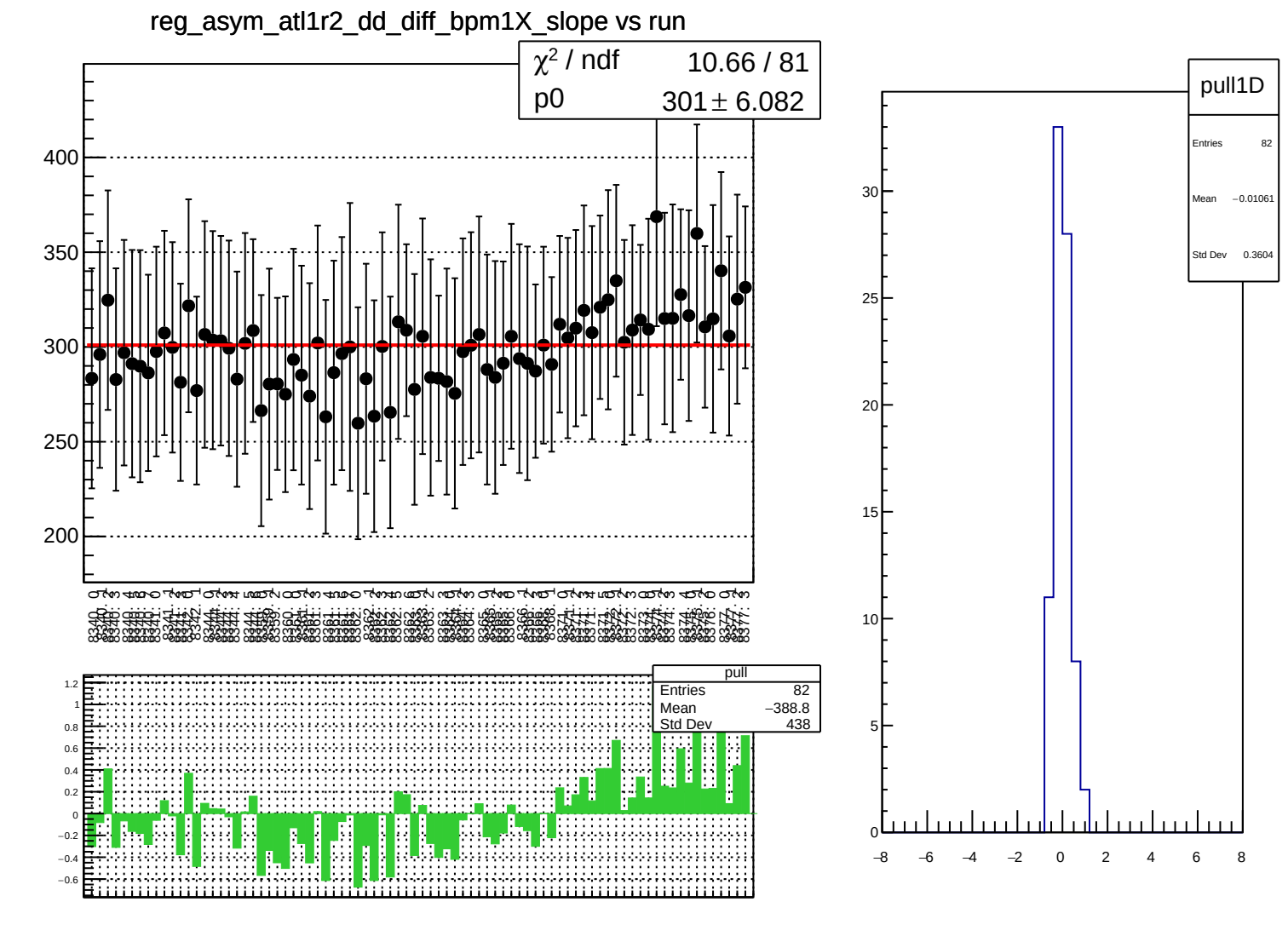

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.923 / 81
p0 −294.5 ± 6.776
pull
Entries 82
Mean −250.6
Std Dev 298.1
pull1D
Entries 82
Mean 0.01338
Std Dev 0.3476

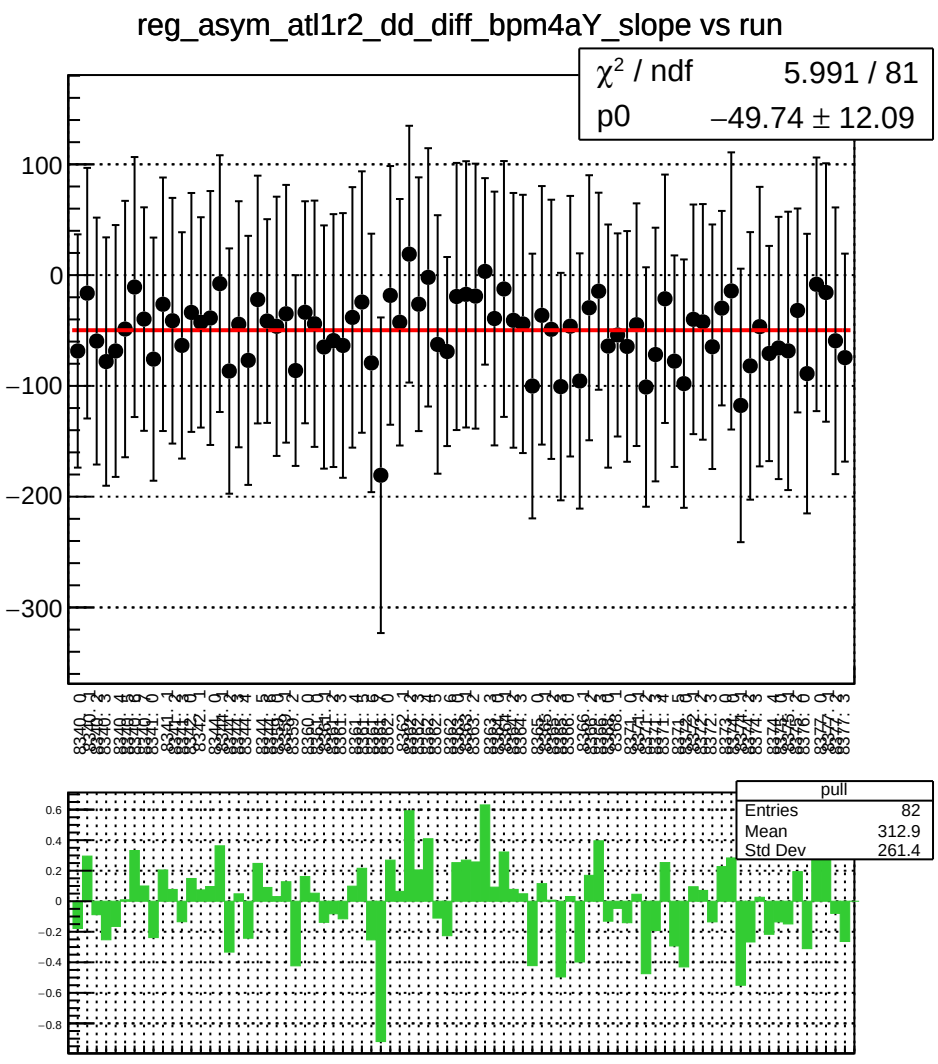

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.194 / 81
p0 53.48 ± 13.45
pull
Entries 82
Mean −3019
Std Dev 3061
pull1D
Entries 82
Mean −0.0002082
Std Dev 0.2962

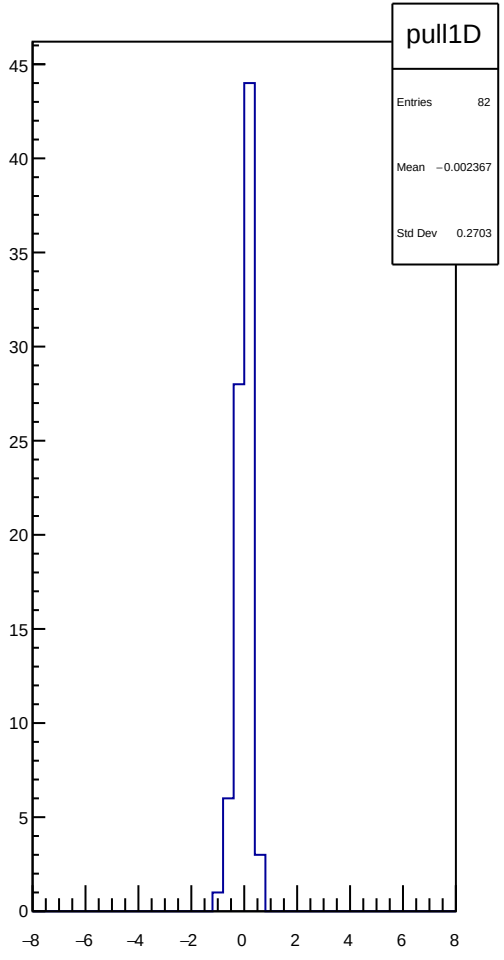

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 8.011 / 81
p0 329.2 ± 7.764
pull
Entries 82
Mean −282.3
Std Dev 330.2
pull1D
Entries 82
Mean −0.008501
Std Dev 0.3124

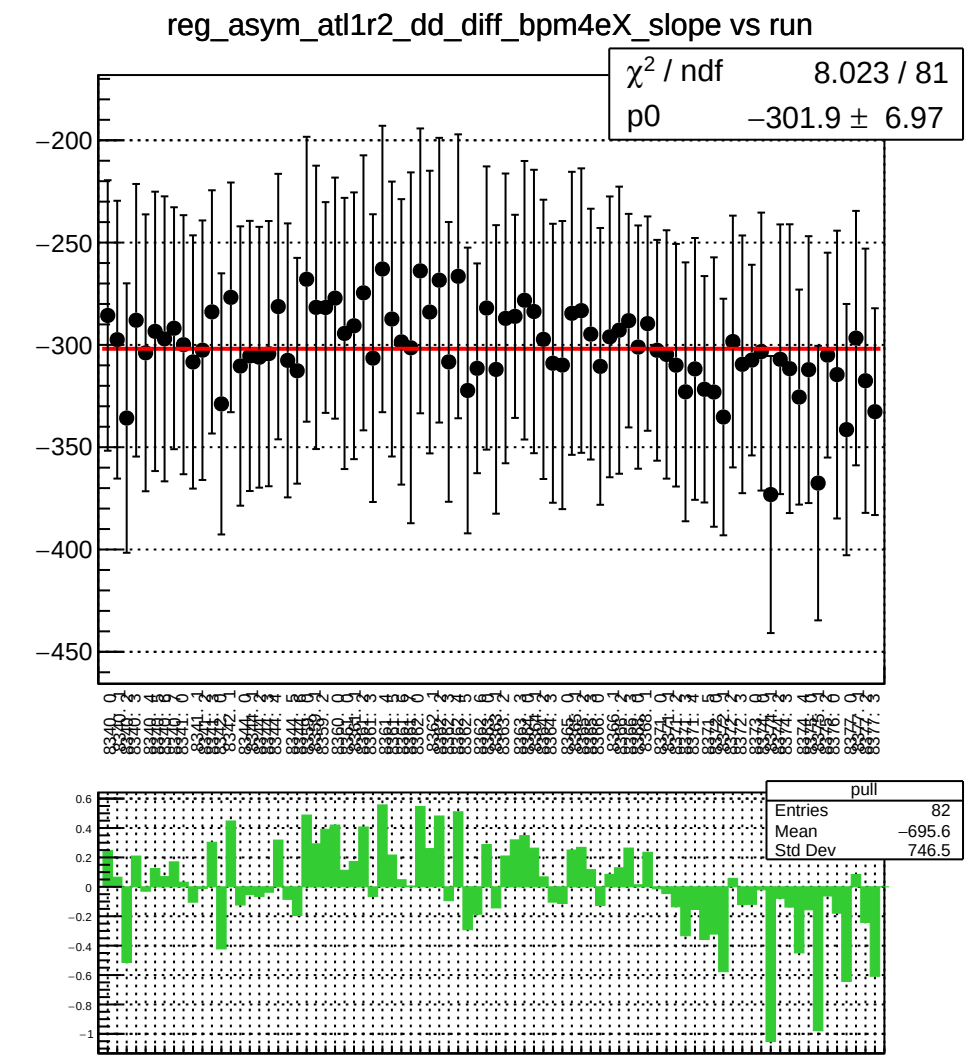

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.27 / 81
p0 12.66 ± 13.89
pull
Entries 82
Mean 475.7
Std Dev 425.5
pull1D
Entries 82
Mean −0.0005654
Std Dev 0.2978

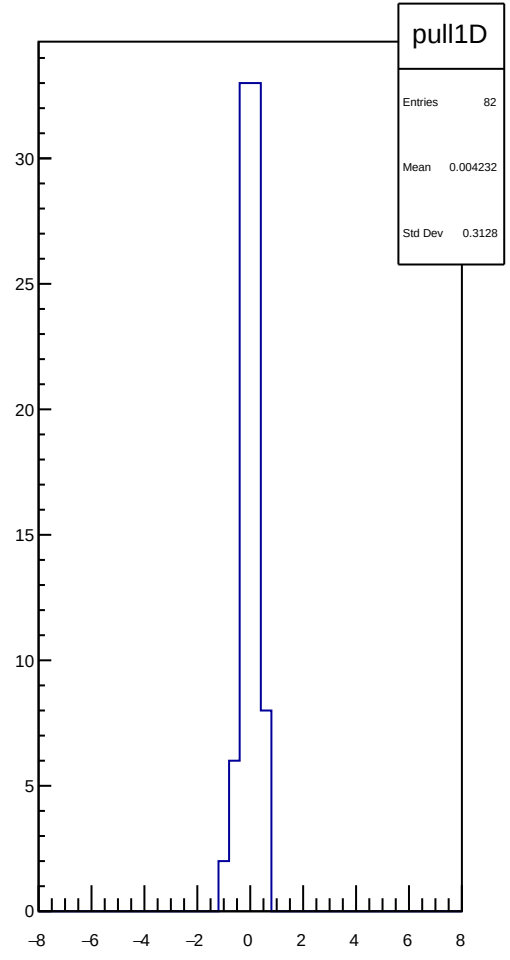

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 21.5 / 81
p0 −165.4 ± 0.8314
pull
Entries 82
Mean 278.6
Std Dev 238
pull1D
Entries 82
Mean −0.02654
Std Dev 0.5113

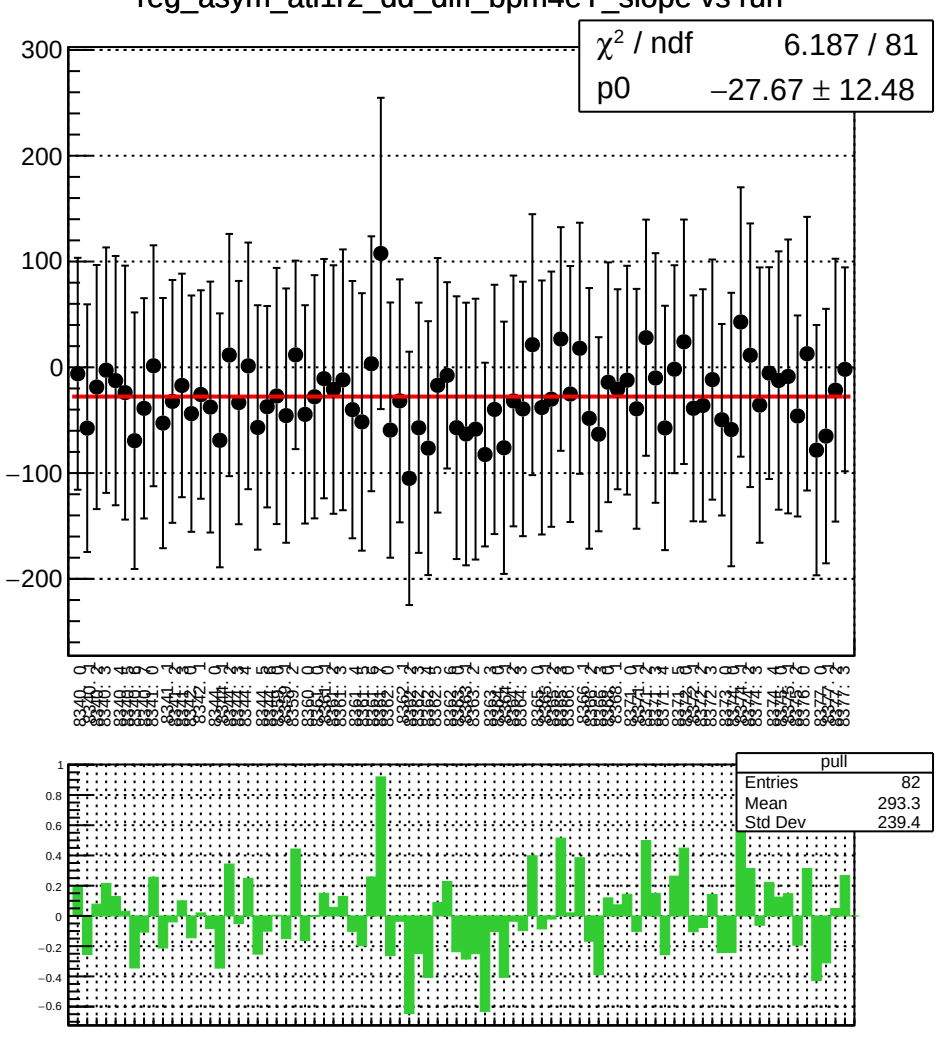

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 10.66 / 81
p0 301 ± 6.082
pull
Entries 82
Mean −388.8
Std Dev 438
pull1D
Entries 82
Mean −0.01061
Std Dev 0.3604

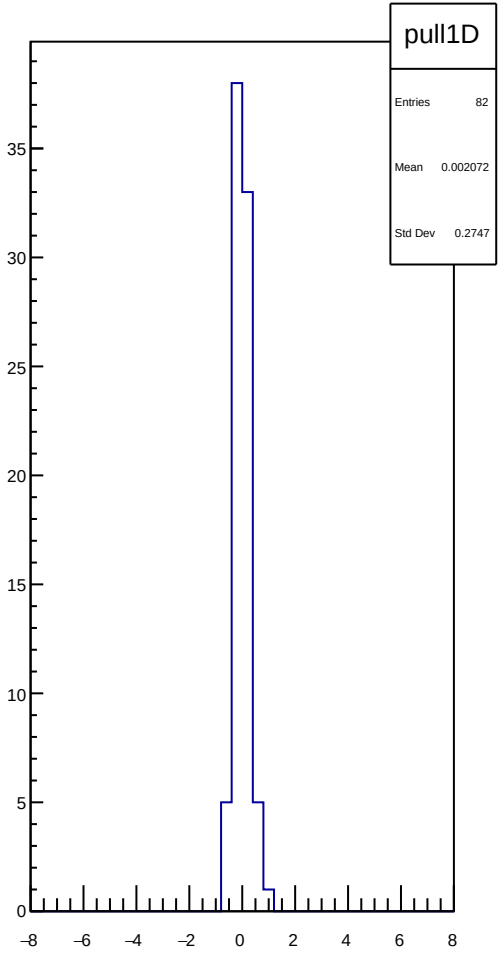

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.991 / 81
p0 −49.74 ± 12.09
100
0
−100
−200
−300
pull
Entries 82
Mean 312.9
Std Dev 261.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

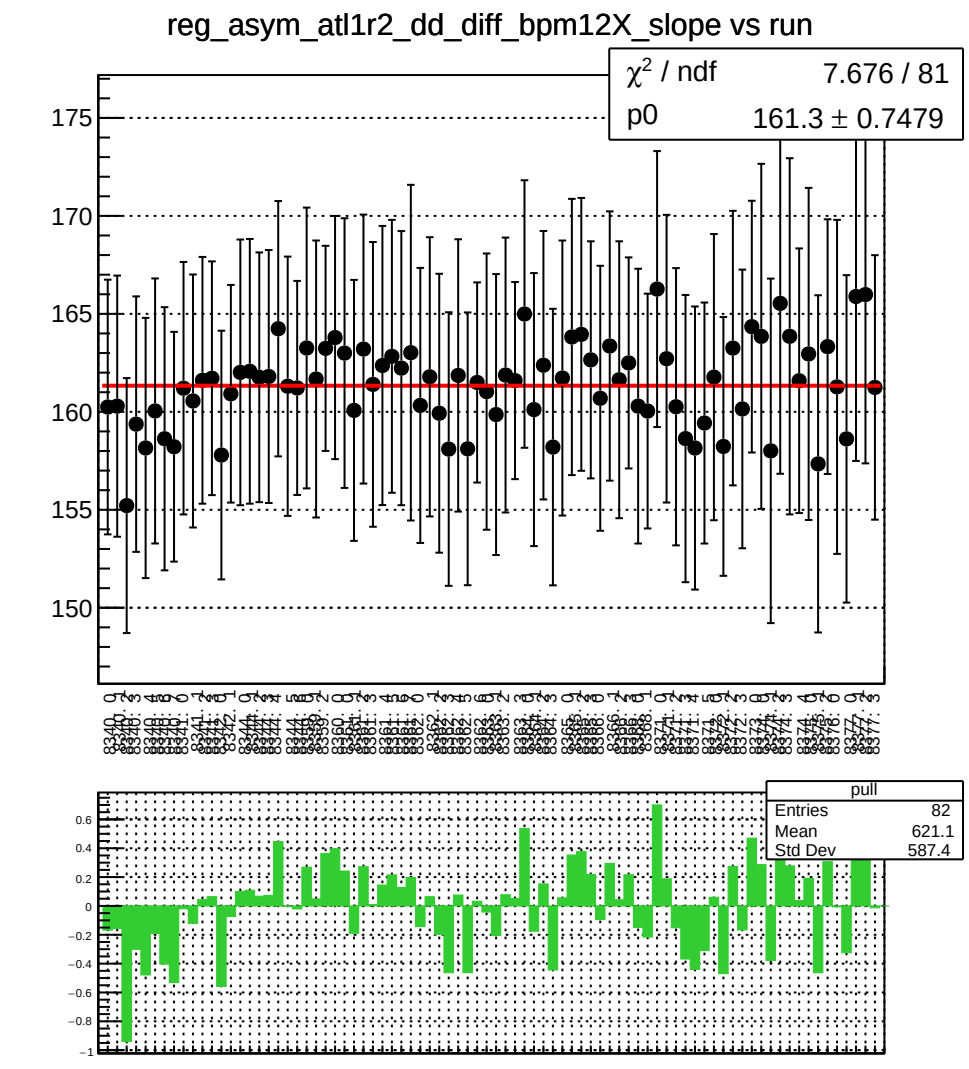

pull1D
Entries 82
Mean −0.002367
Std Dev 0.2703
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

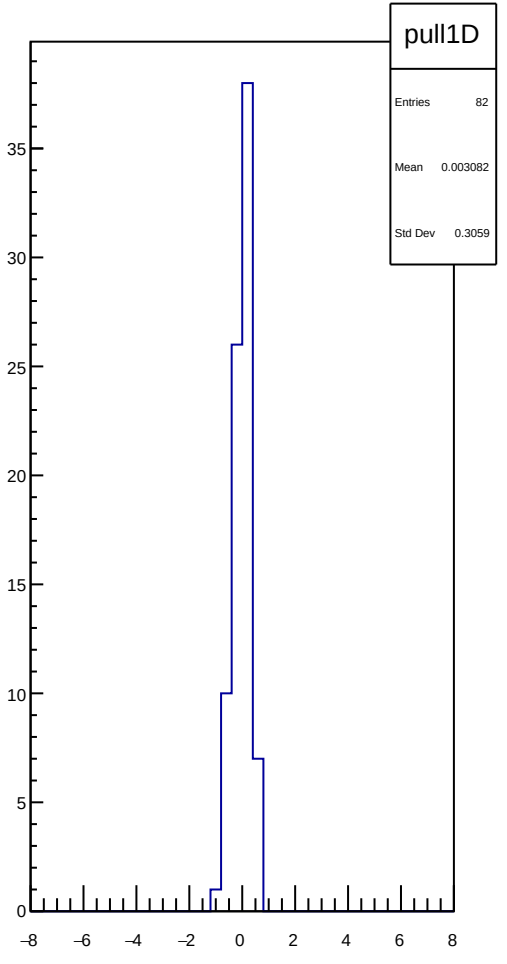

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.023 / 81
p0 −301.9 ± 6.97
pull
Entries 82
Mean −695.6
Std Dev 746.5

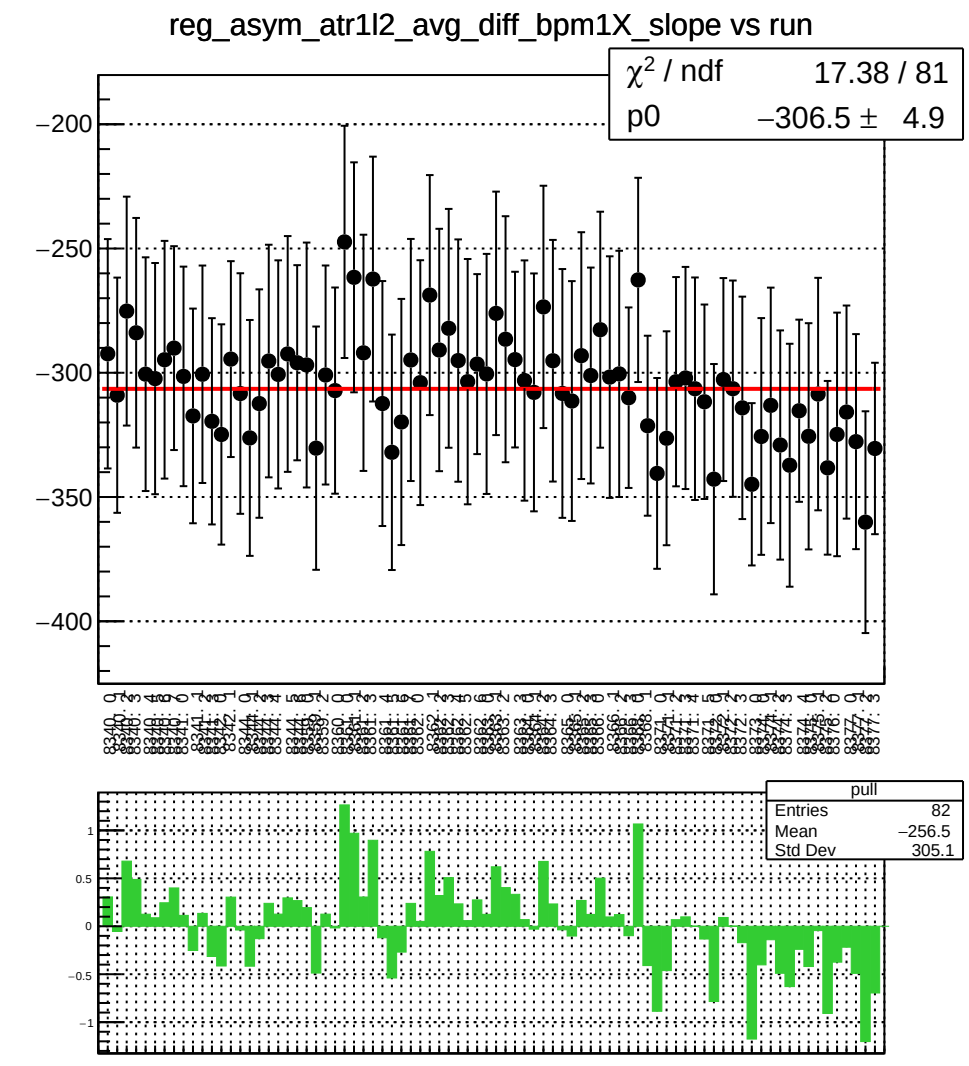

pull1D
Entries 82
Mean 0.004232
Std Dev 0.3128

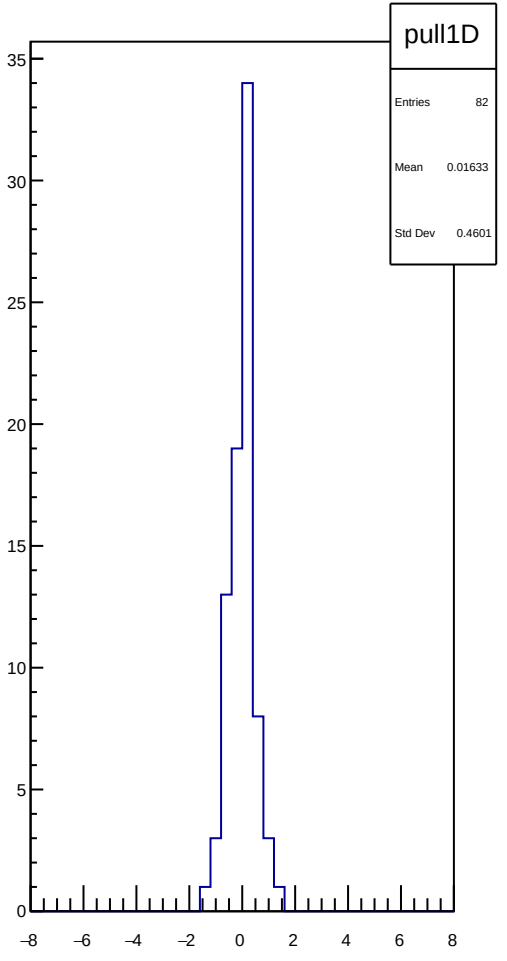

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.187 / 81
p0 −27.67 ± 12.48
pull
Entries 82
Mean 293.3
Std Dev 239.4


pull1D
Entries 82
Mean 0.002072
Std Dev 0.2747


reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 7.676 / 81
p0 161.3 ± 0.7479
pull
Entries 82
Mean 621.1
Std Dev 587.4


pull1D
Entries 82
Mean 0.003082
Std Dev 0.3059


reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 17.38 / 81
p0 −306.5 ± 4.9
−200
−250
−300
−350
−400
pull
Entries 82
Mean −256.5
Std Dev 305.1
1
0.5
0
−0.5
−1


pull1D
Entries 82
Mean 0.01633
Std Dev 0.4601
35
30
25
20
15
10
5
0
−8
−6
−4
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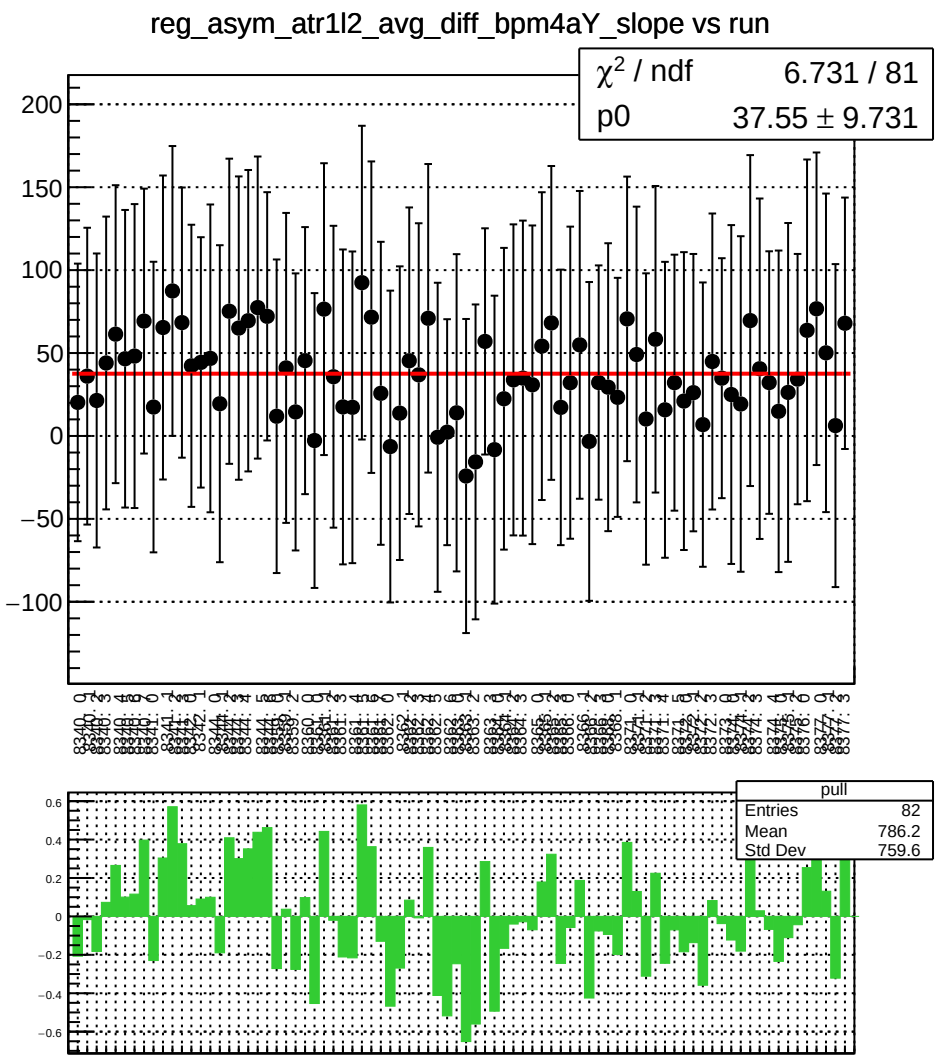
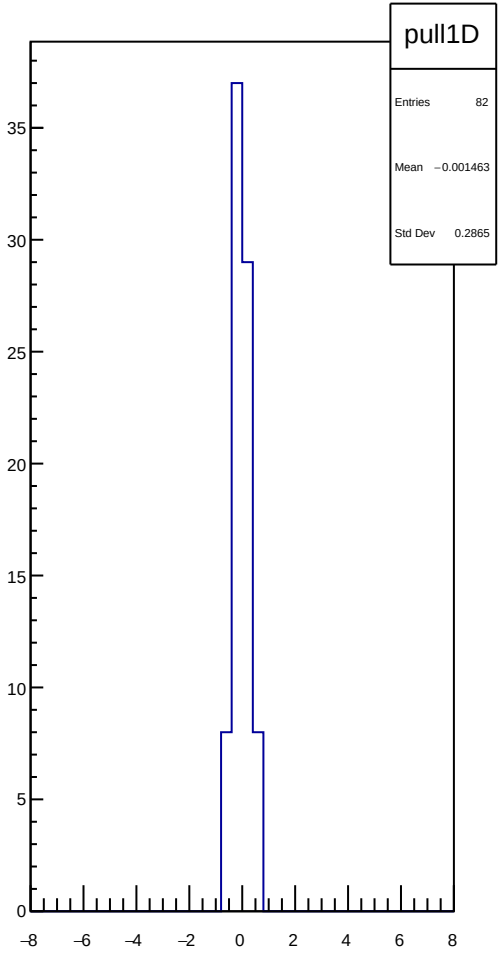
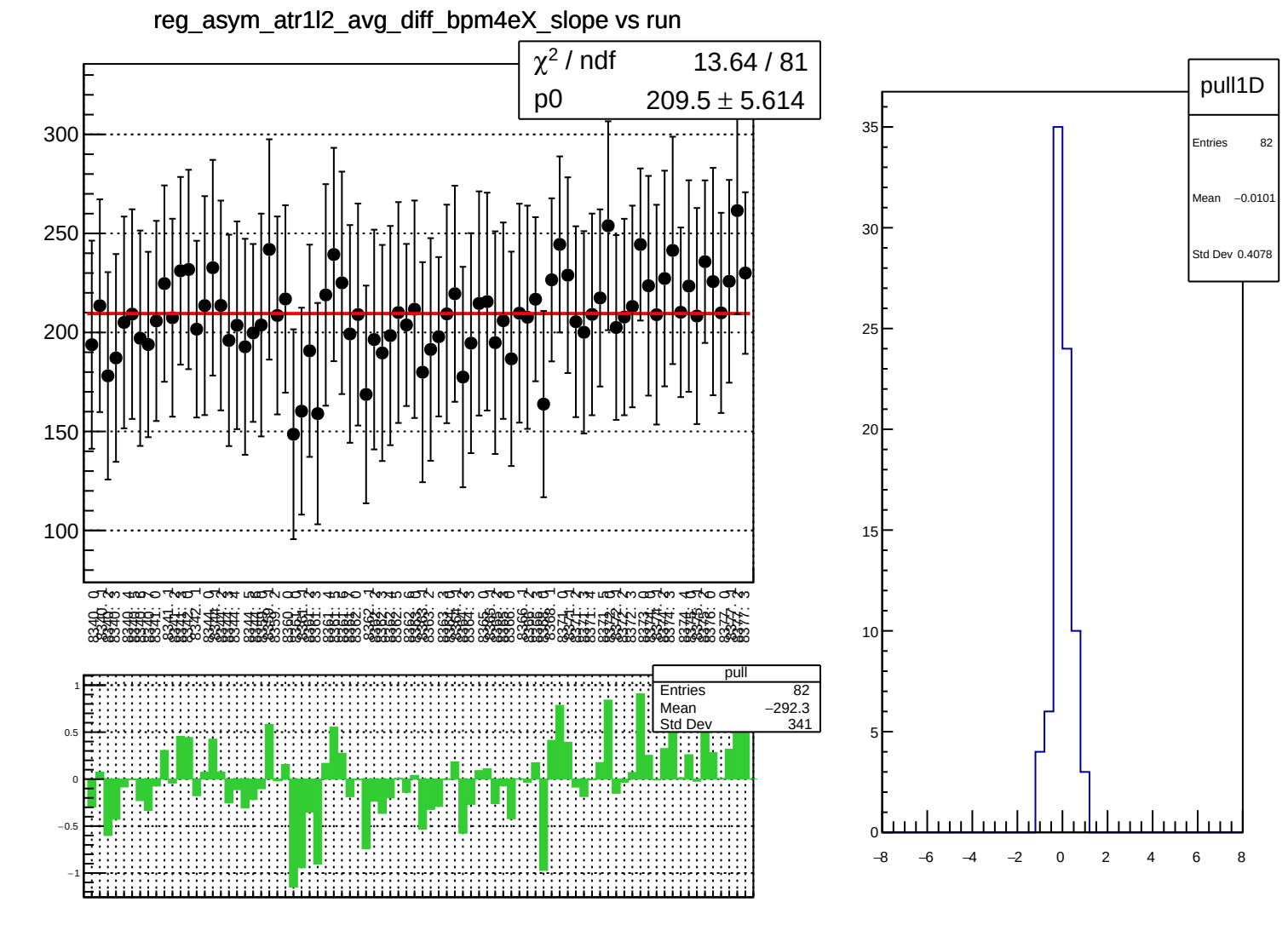
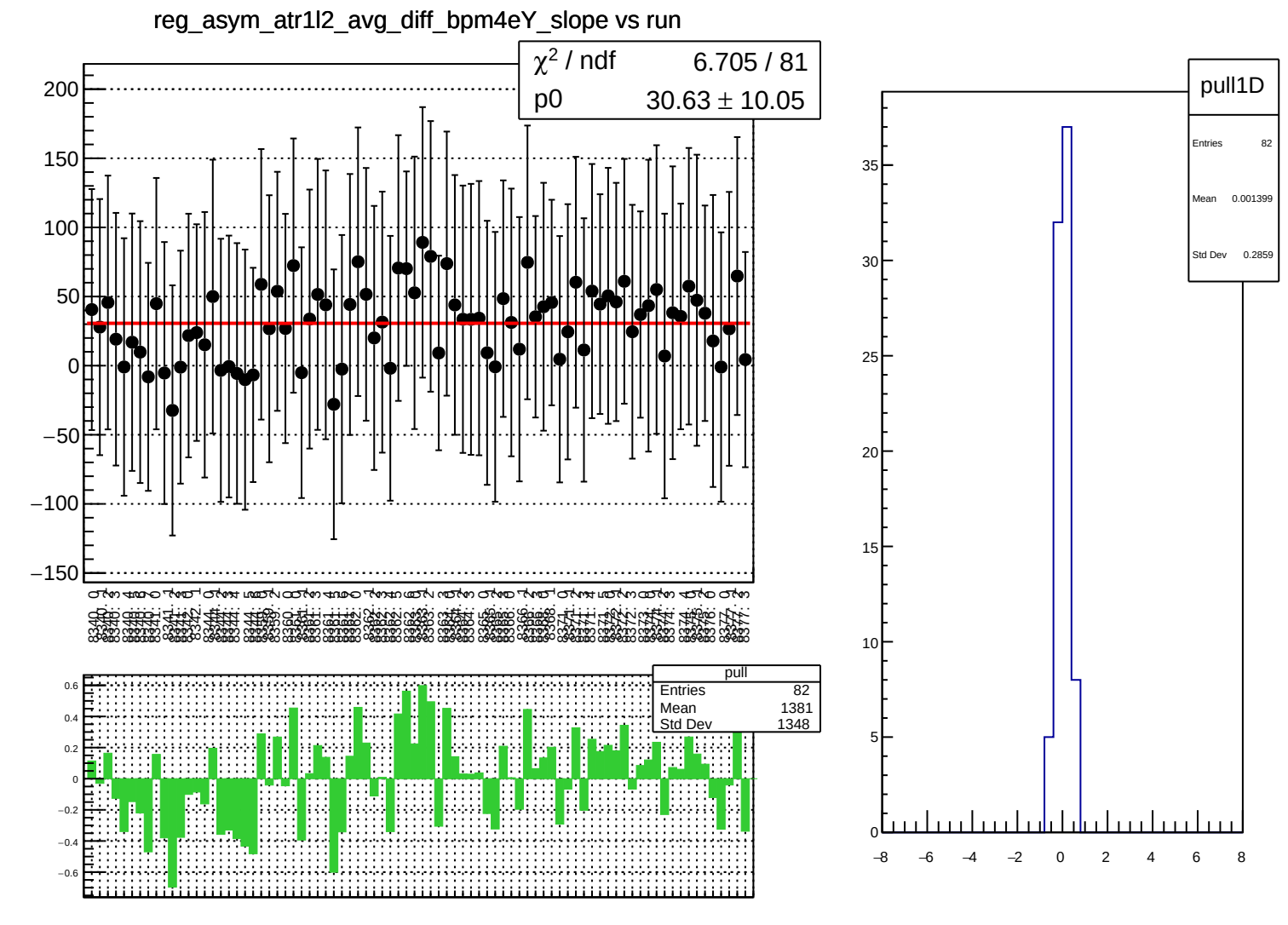
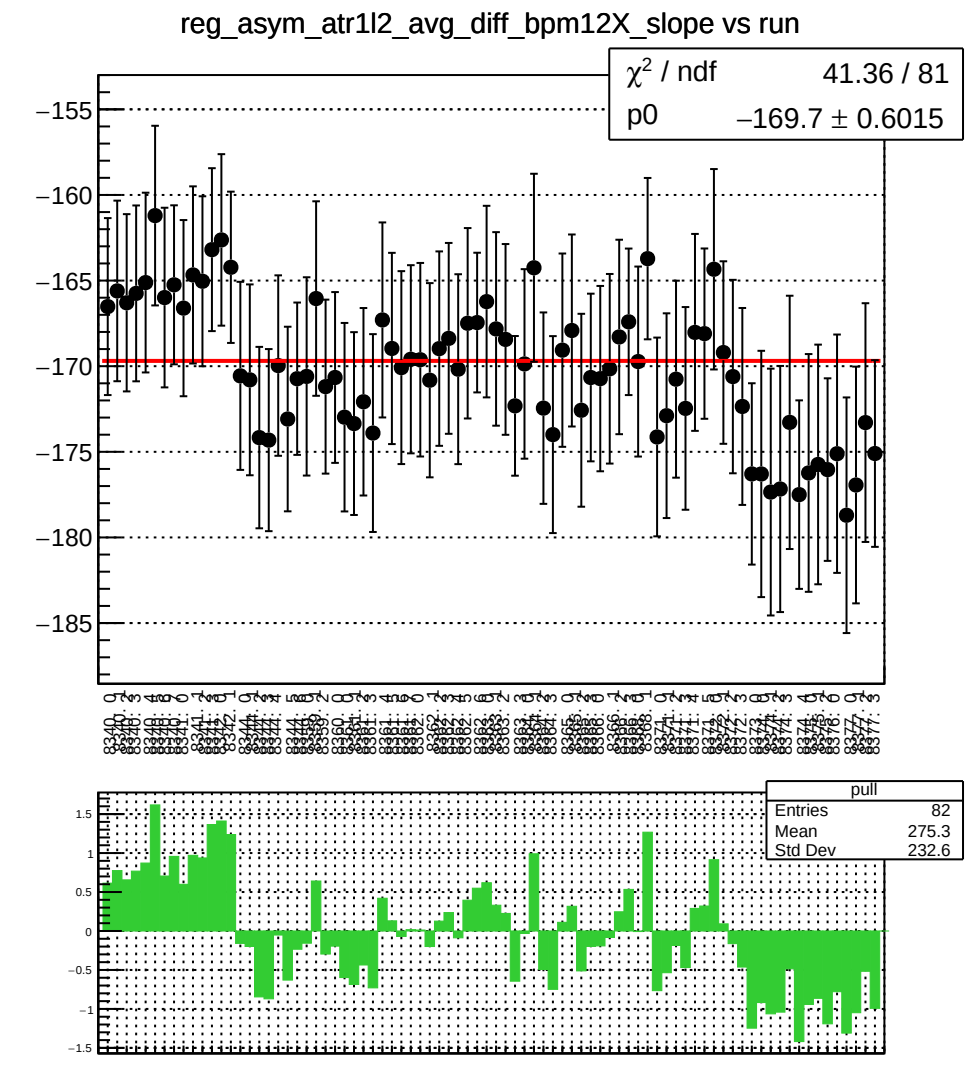
0
2
4
6
8

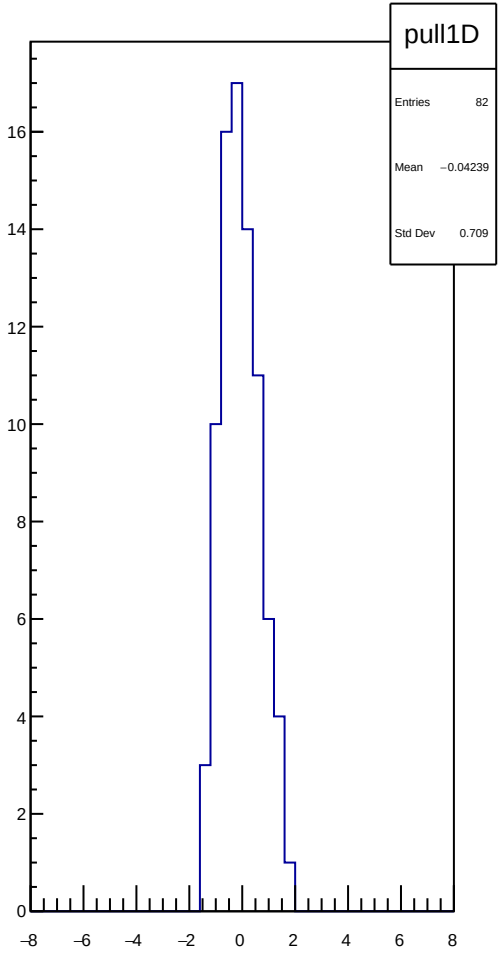

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.731 / 81
p0 37.55 ± 9.731
pull
Entries 82
Mean 786.2
Std Dev 759.6

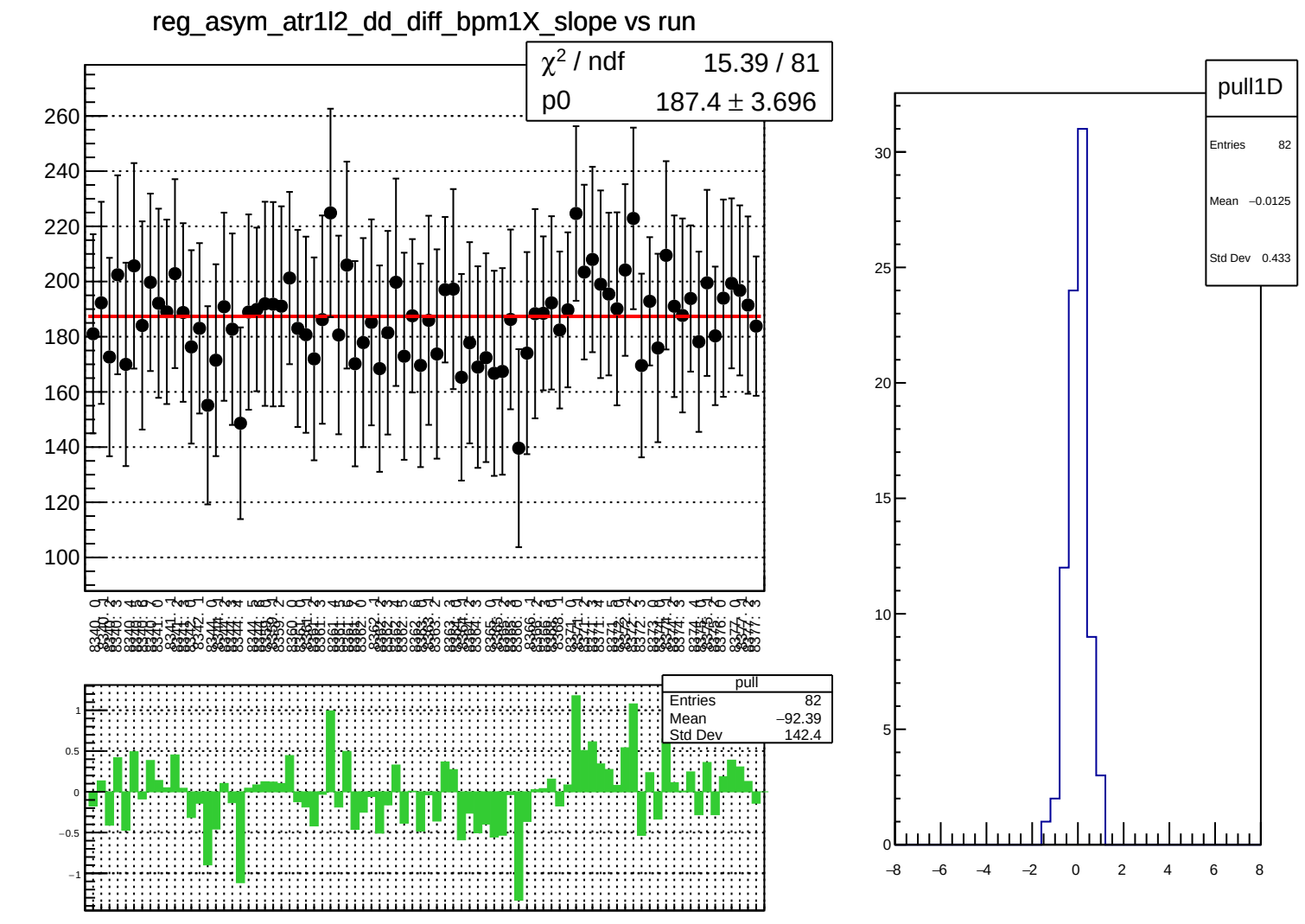

pull1D
Entries 82
Mean −0.001463
Std Dev 0.2865

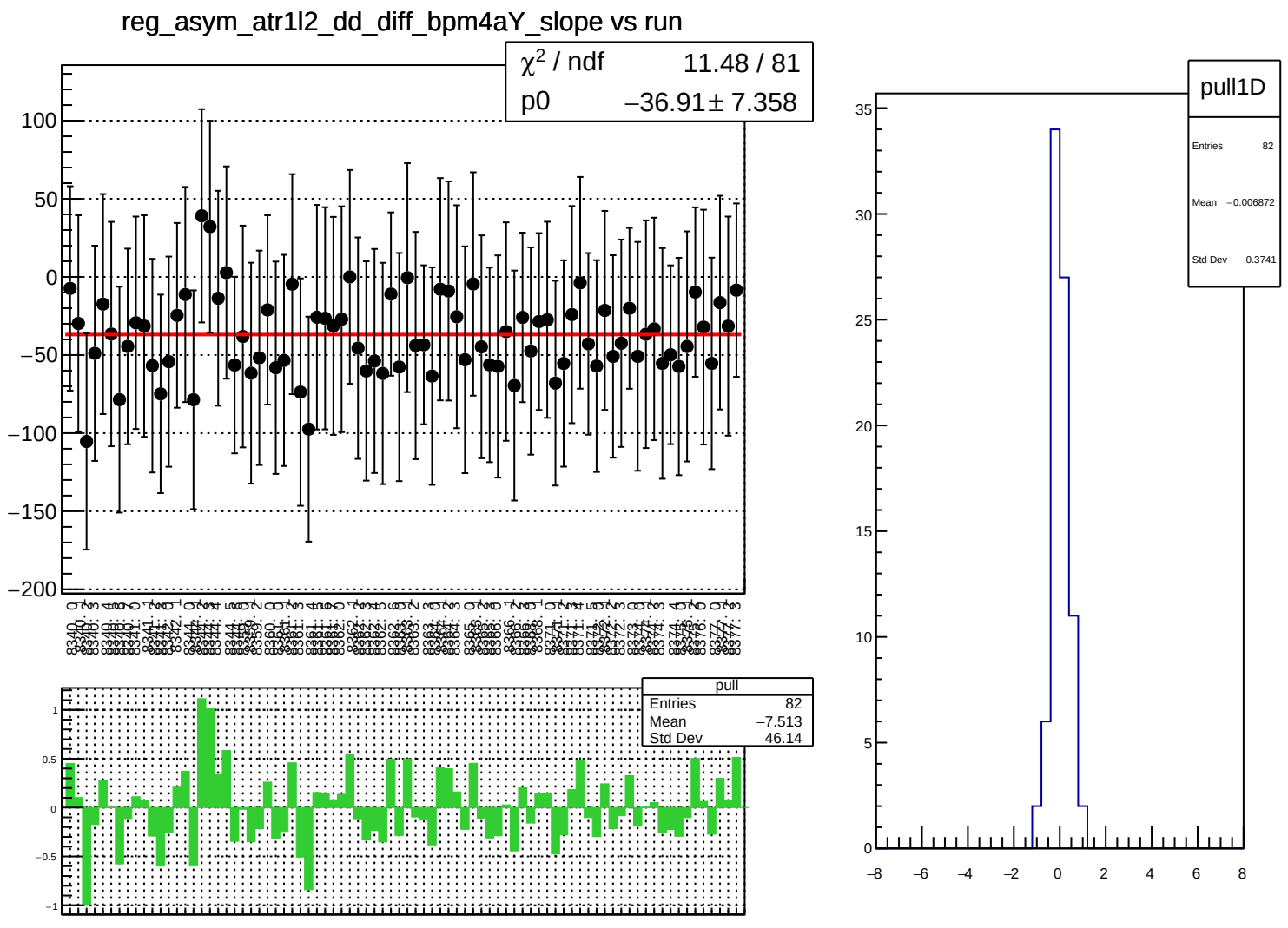

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.64 / 81
p0 209.5 ± 5.614
300
250
200
150
100
pull
Entries 82
Mean −292.3
Std Dev 341
1
0.5
0
−0.5
−1
pull1D
Entries 82
Mean −0.0101
Std Dev 0.4078
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

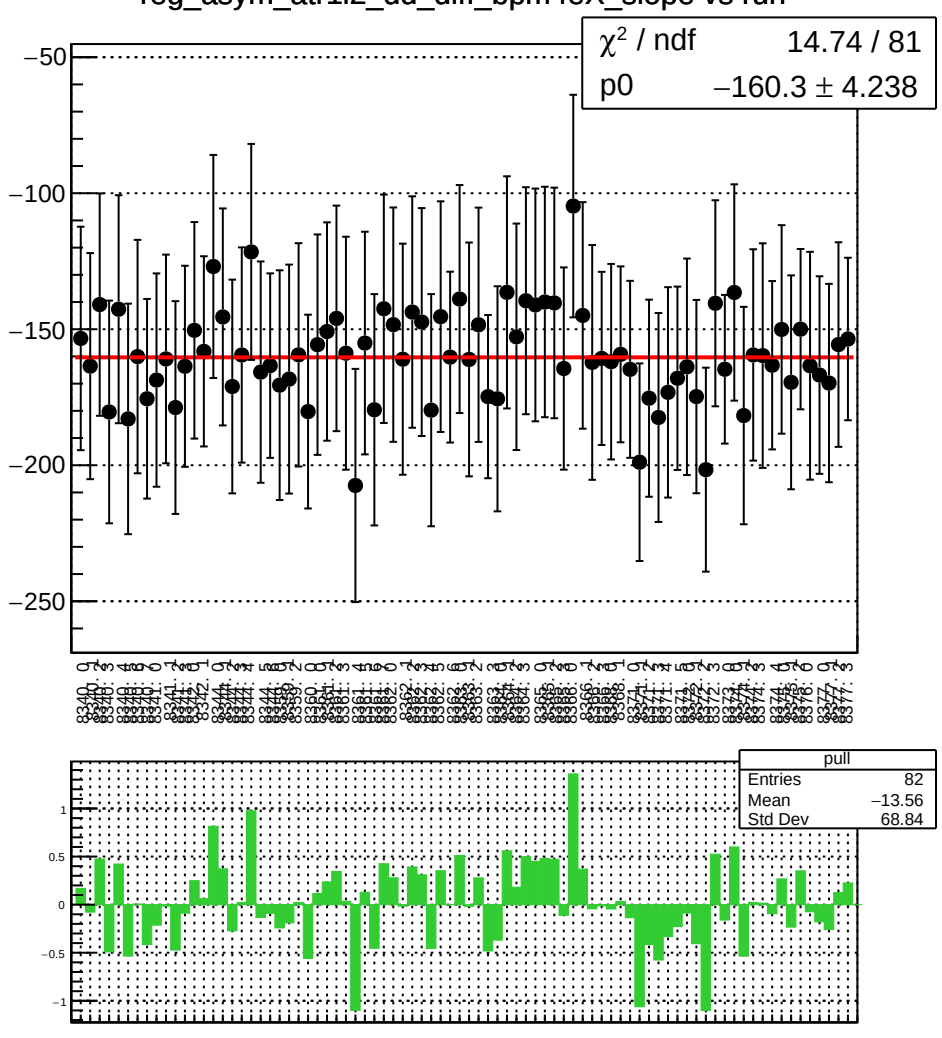

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.705 / 81
p0 30.63 ± 10.05
pull
Entries 82
Mean 1381
Std Dev 1348
pull1D
Entries 82
Mean 0.001399
Std Dev 0.2859

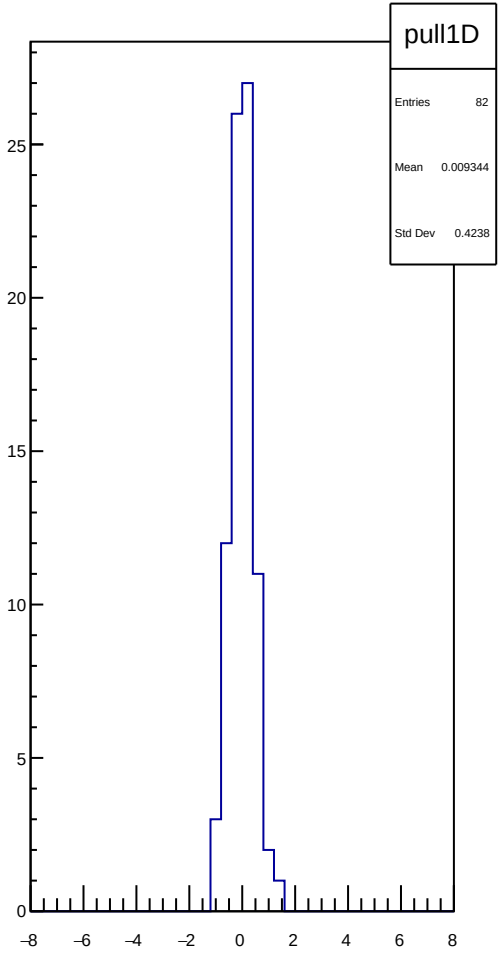

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 41.36 / 81
p0 −169.7 ± 0.6015
pull
Entries 82
Mean 275.3
Std Dev 232.6

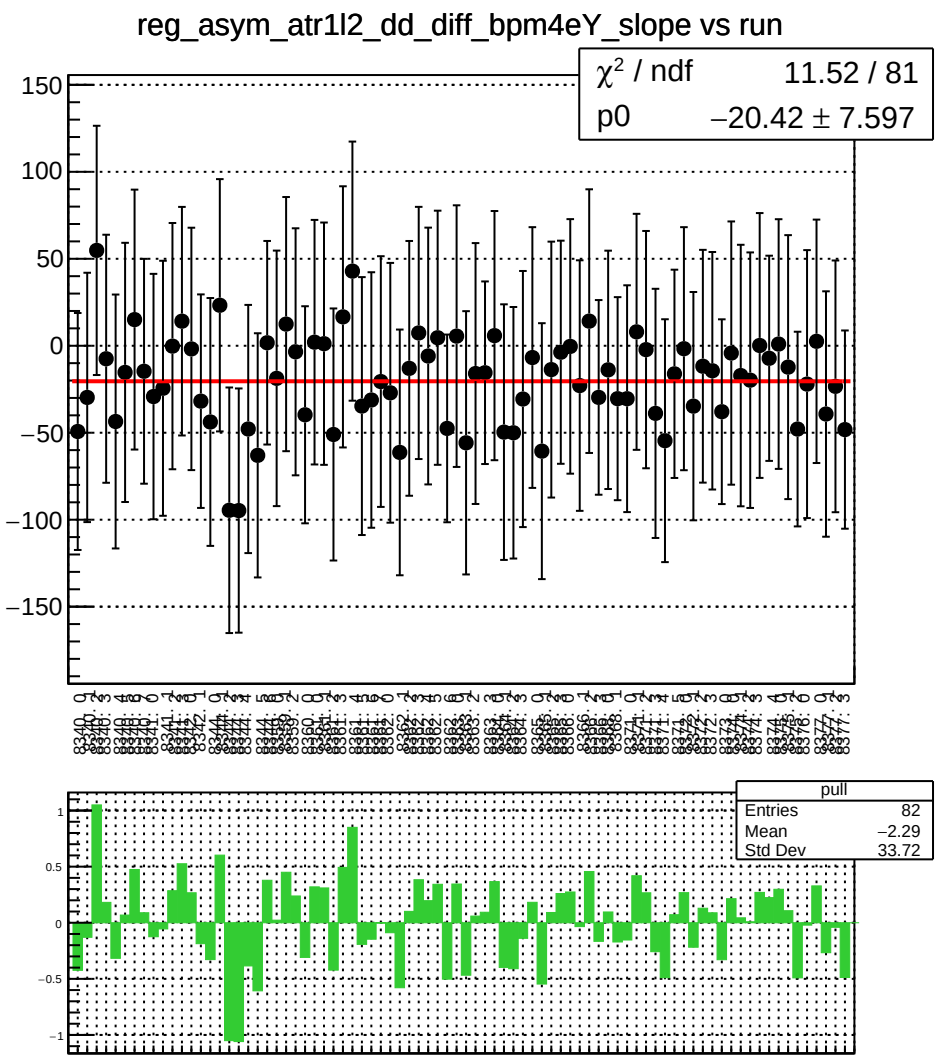

pull1D
Entries 82
Mean −0.04239
Std Dev 0.709

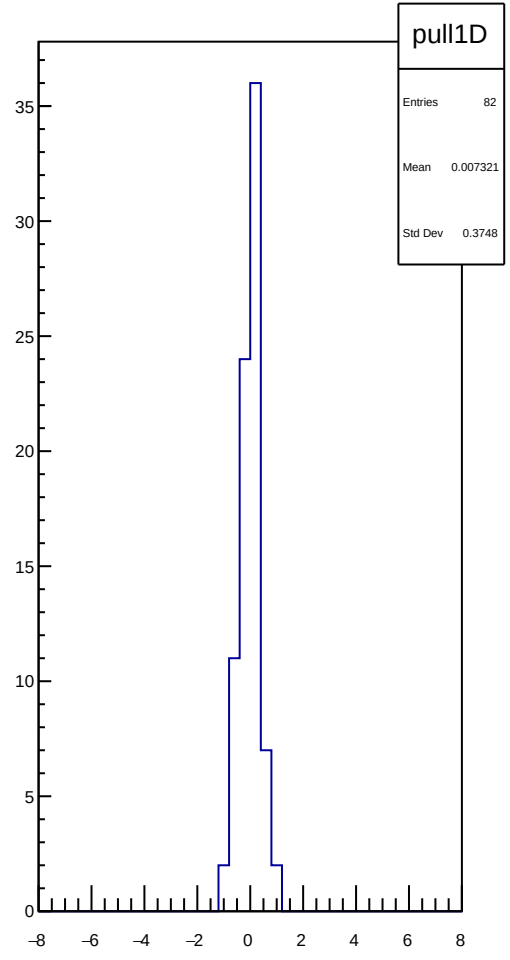

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 15.39 / 81
p0 187.4 ± 3.696
pull
Entries 82
Mean −92.39
Std Dev 142.4
pull1D
Entries 82
Mean −0.0125
Std Dev 0.433

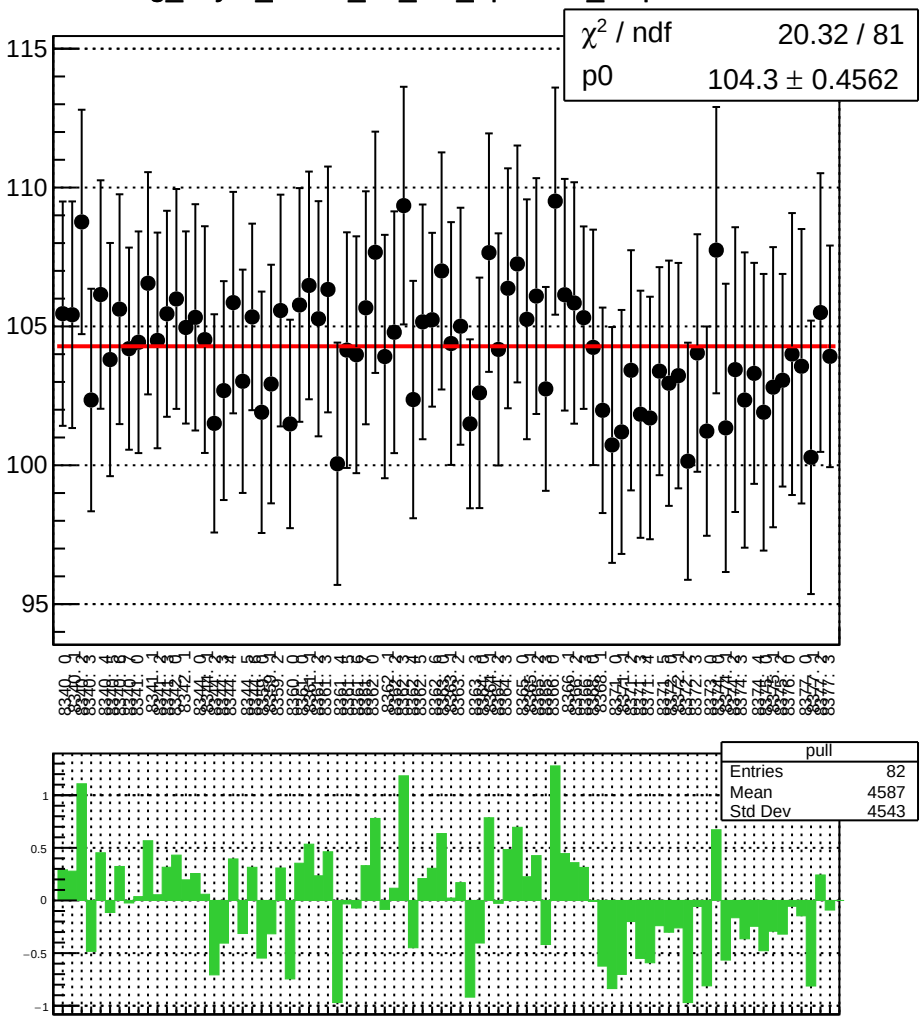

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.48 / 81
p0 −36.91± 7.358
pull
Entries 82
Mean −7.513
Std Dev 46.14
pull1D
Entries 82
Mean −0.006872
Std Dev 0.3741

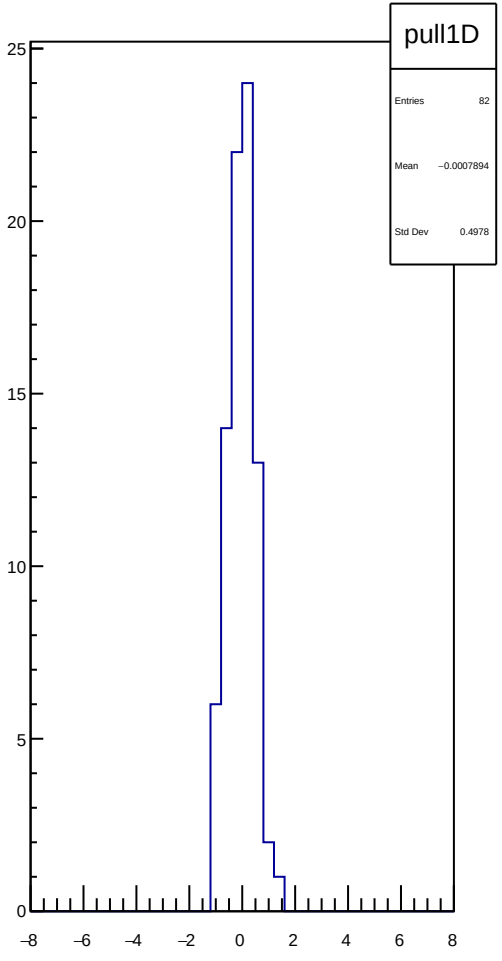

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.74 / 81
p0 −160.3 ± 4.238
pull
Entries 82
Mean −13.56
Std Dev 68.84

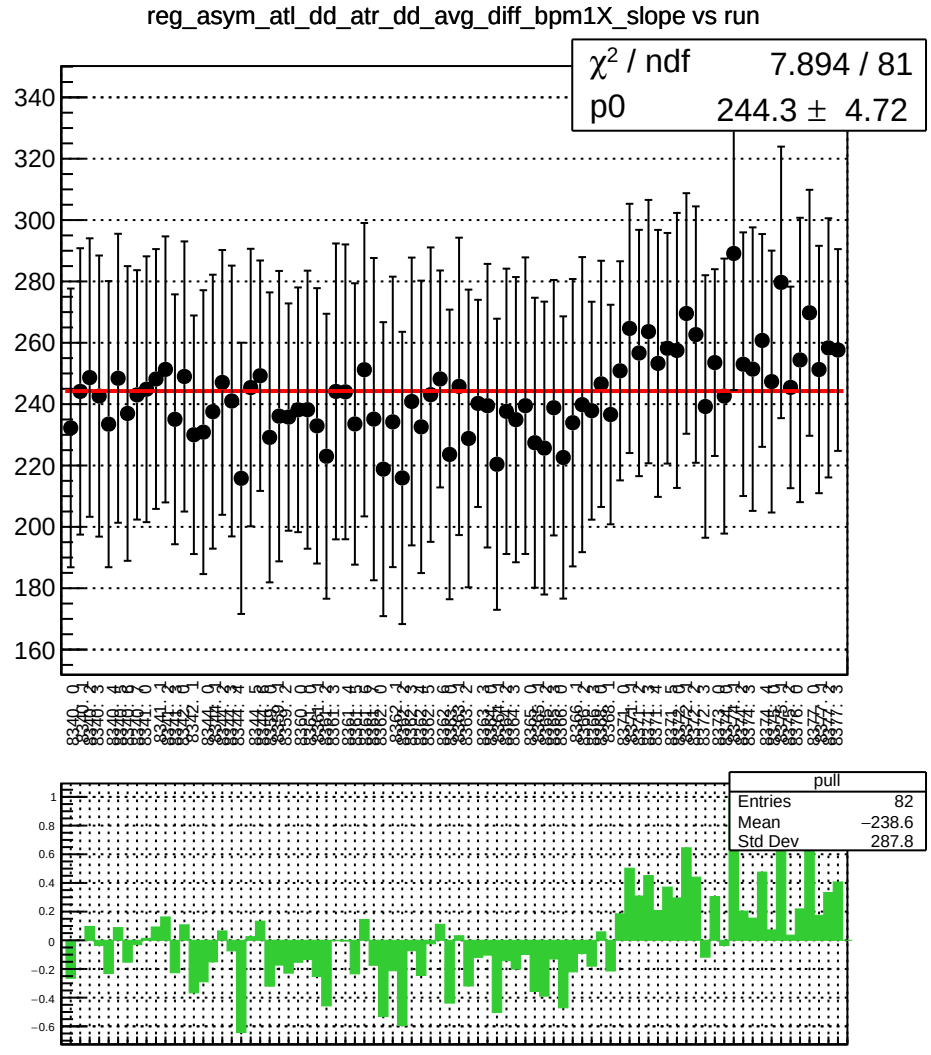

pull1D
Entries 82
Mean 0.009344
Std Dev 0.4238

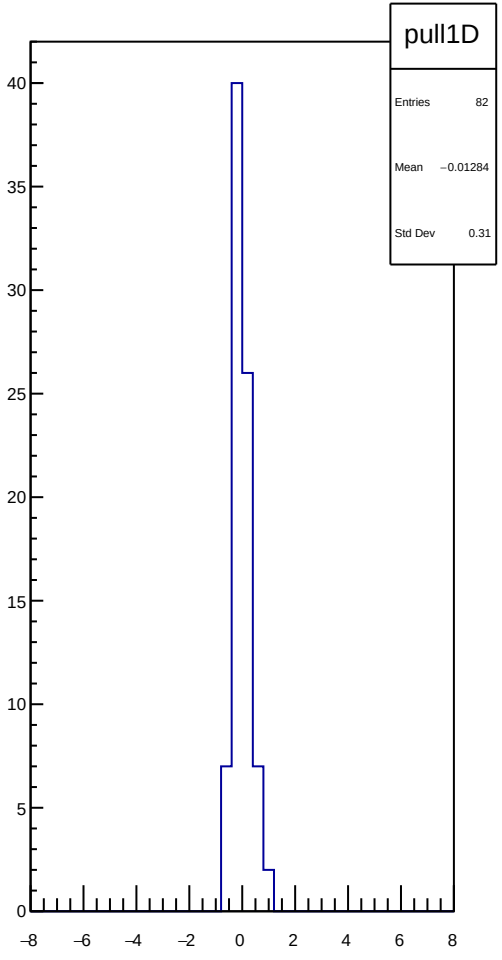

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.52 / 81
p0 −20.42 ± 7.597
pull
Entries 82
Mean −2.29
Std Dev 33.72

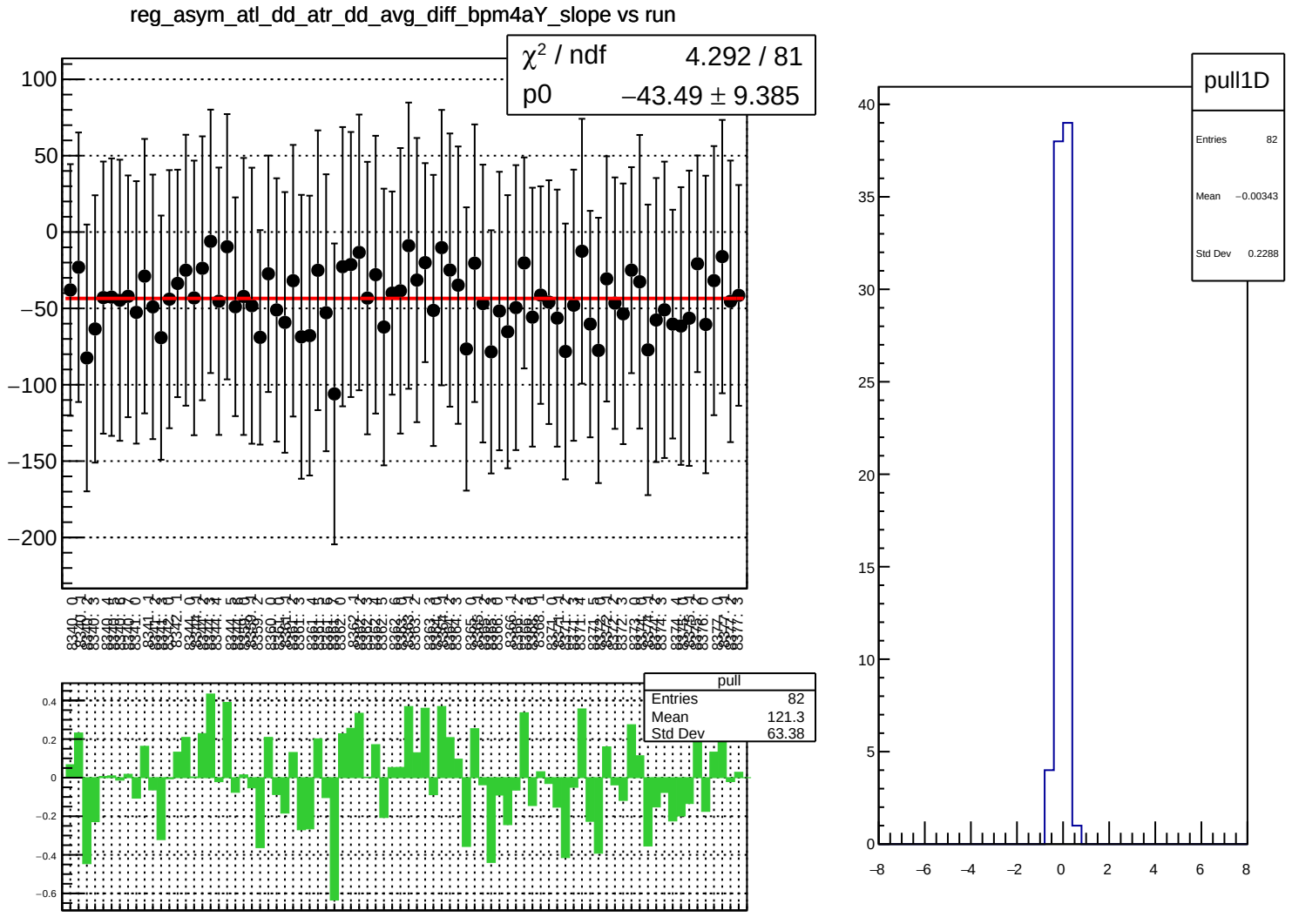

pull1D
Entries 82
Mean 0.007321
Std Dev 0.3748

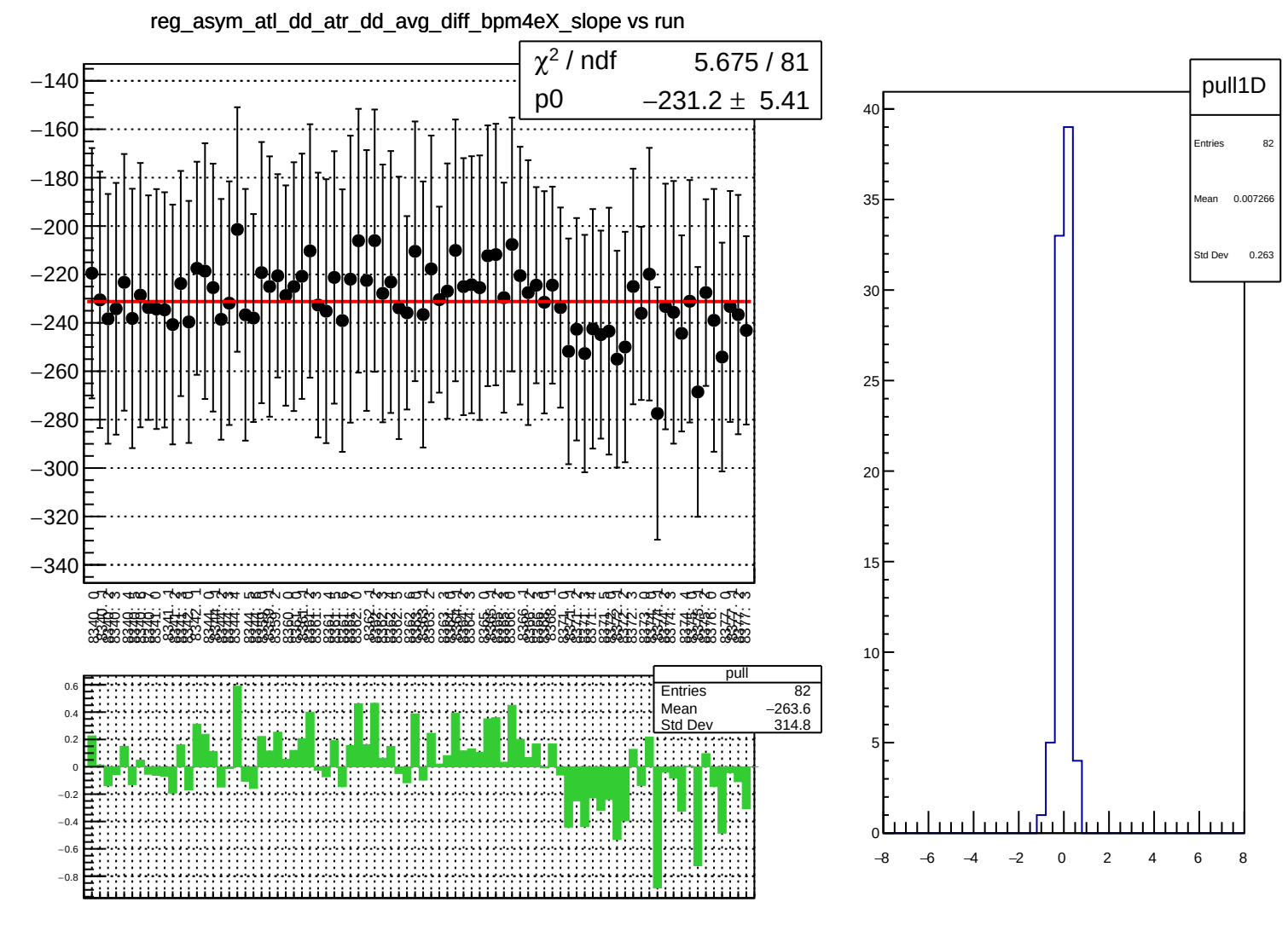

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 20.32 / 81
p0 104.3 ± 0.4562
pull
Entries 82
Mean 4587
Std Dev 4543

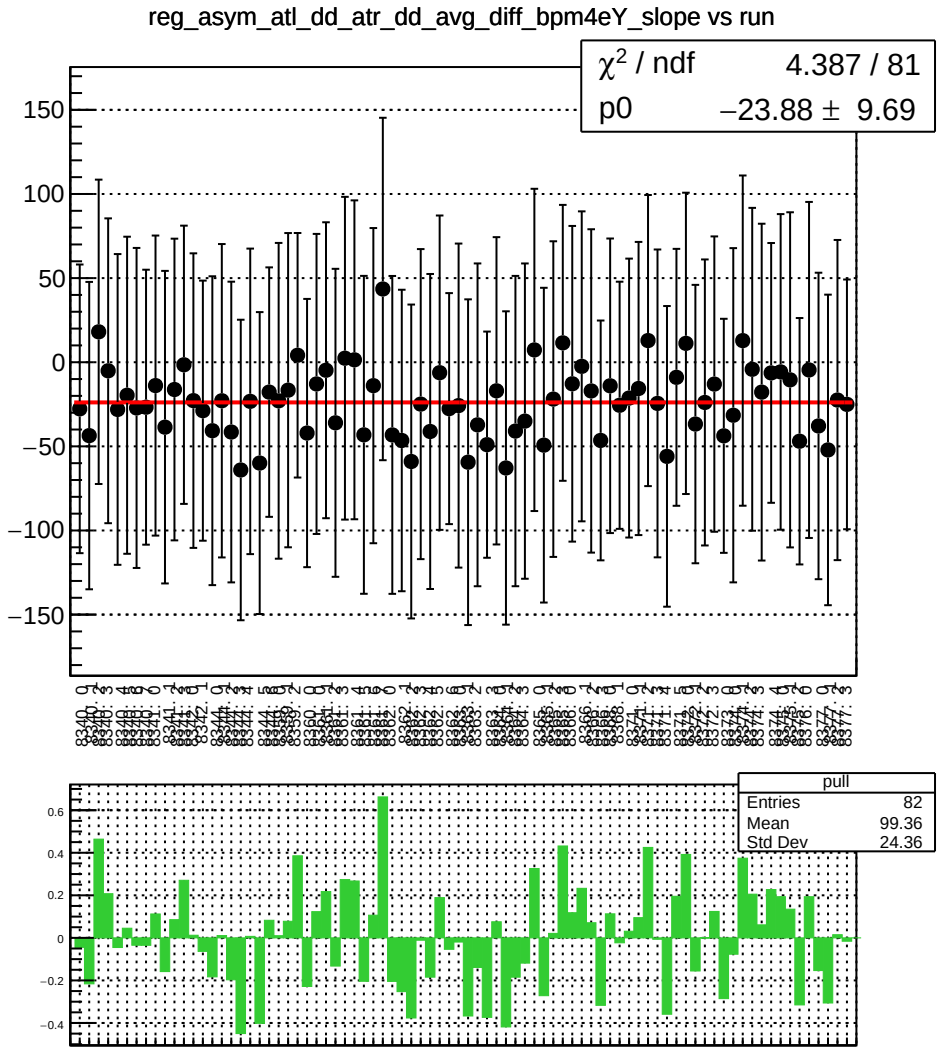

pull1D
Entries 82
Mean −0.0007894
Std Dev 0.4978

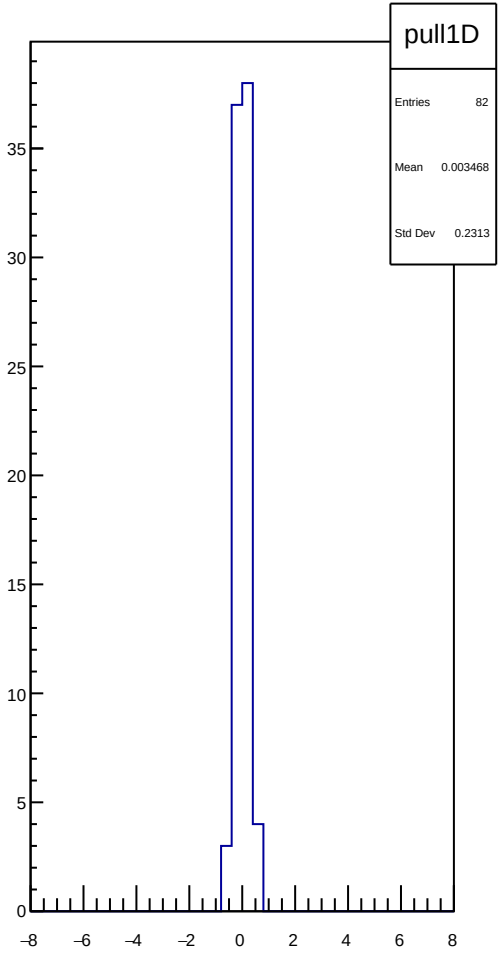

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 7.894 / 81
p0 244.3 ± 4.72
pull
Entries 82
Mean −238.6
Std Dev 287.8

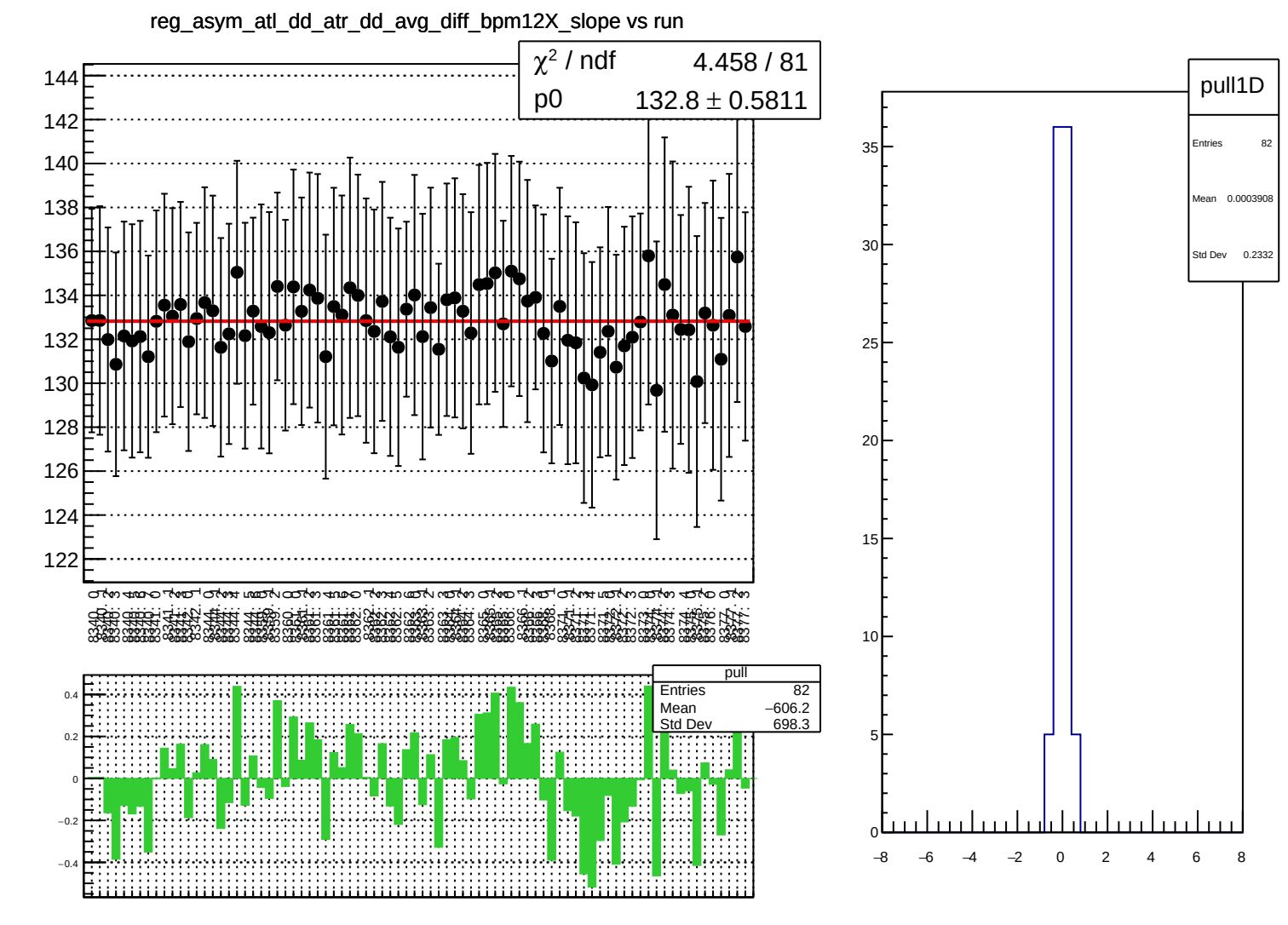

pull1D
Entries 82
Mean −0.01284
Std Dev 0.31

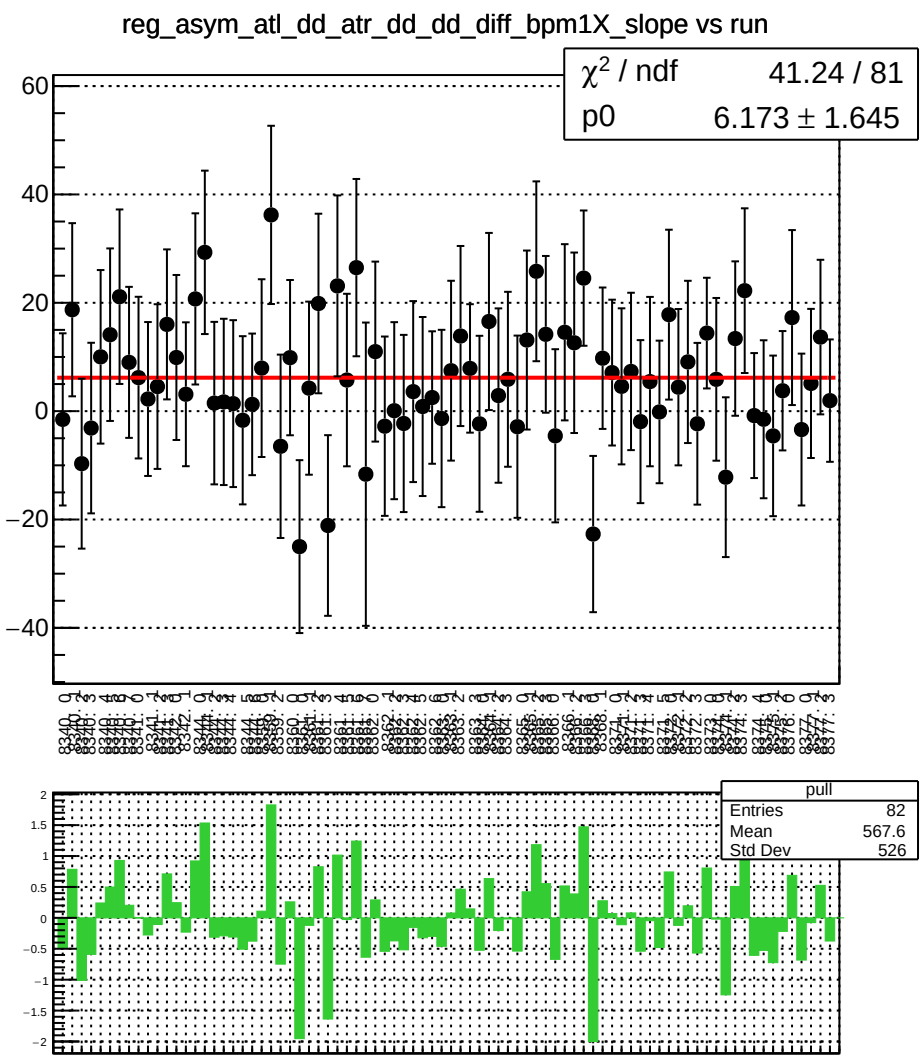

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.292 / 81
p0 −43.49 ± 9.385
pull
Entries 82
Mean 121.3
Std Dev 63.38
pull1D
Entries 82
Mean −0.00343
Std Dev 0.2288

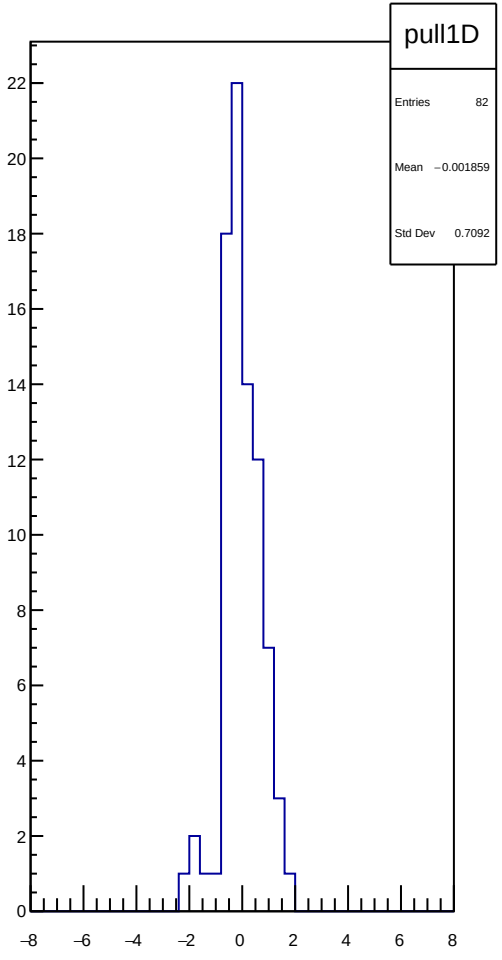

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.675 / 81
p0 −231.2 ± 5.41
pull
Entries 82
Mean −263.6
Std Dev 314.8
pull1D
Entries 82
Mean 0.007266
Std Dev 0.263

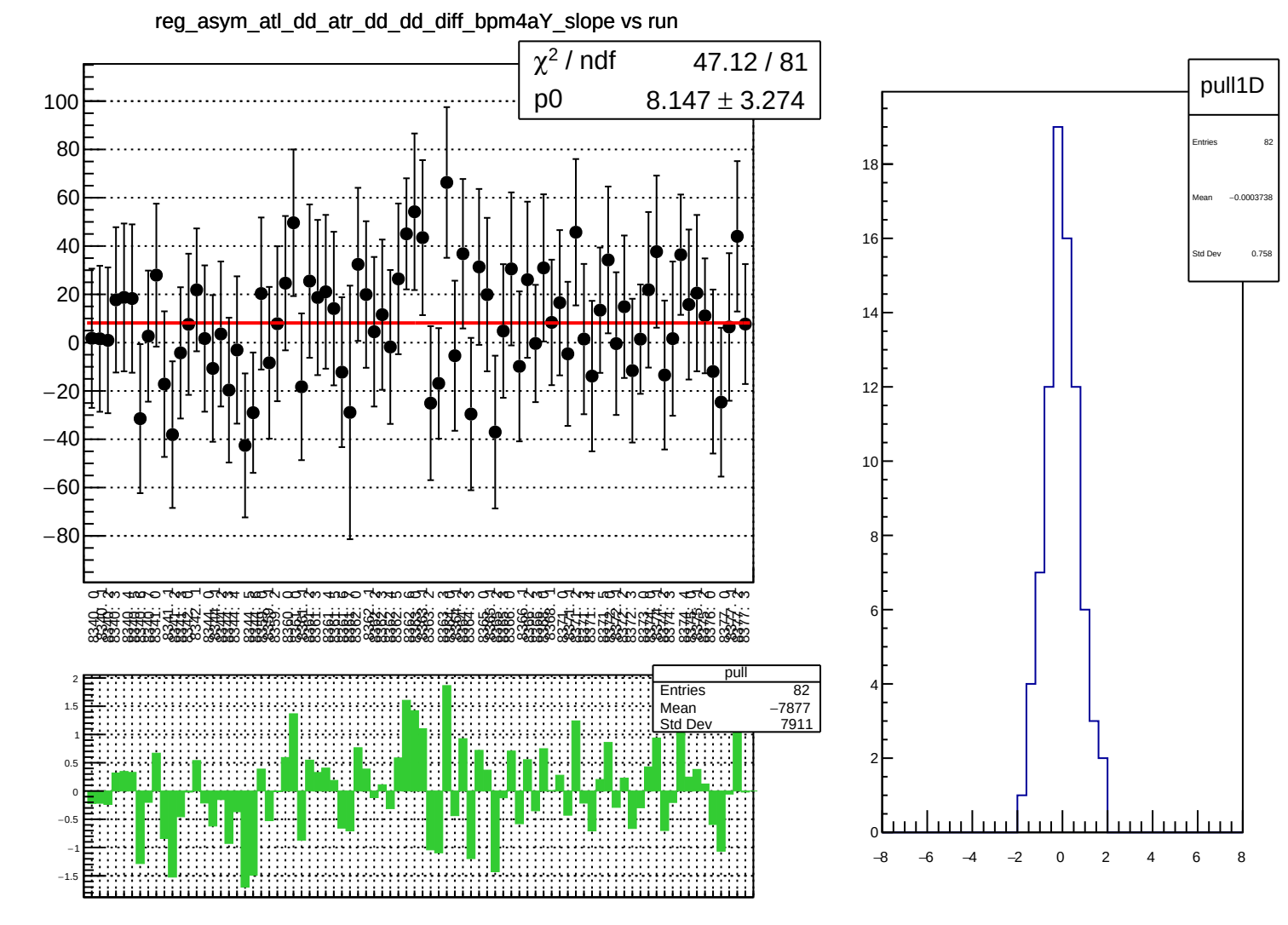

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.387 / 81
p0 −23.88 ± 9.69
pull
Entries 82
Mean 99.36
Std Dev 24.36

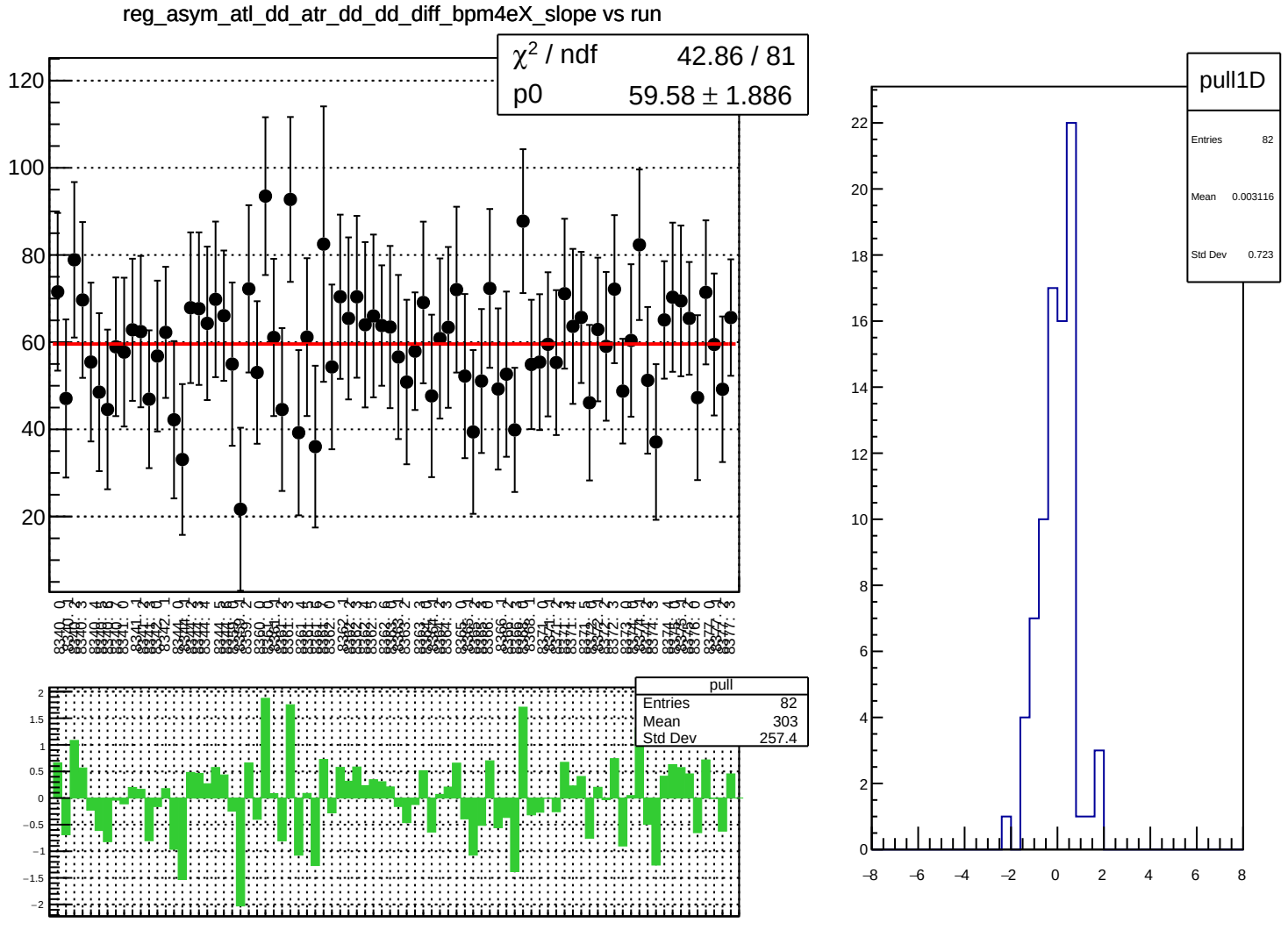

pull1D
Entries 82
Mean 0.003468
Std Dev 0.2313

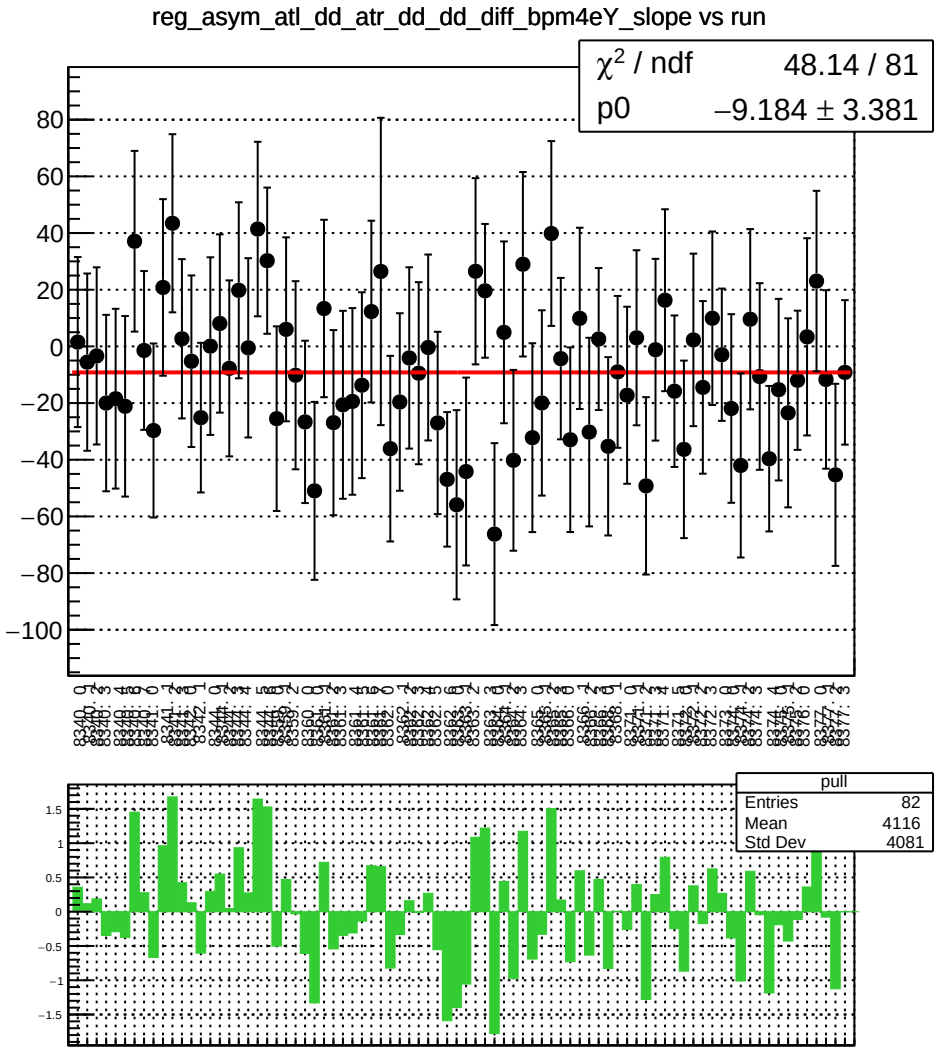

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 4.458 / 81
p0 132.8 ± 0.5811
144
142
140
138
136
134
132
130
128
126
124
122
pull
Entries 82
Mean −606.2
Std Dev 698.3
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 82
Mean 0.0003908
Std Dev 0.2332
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

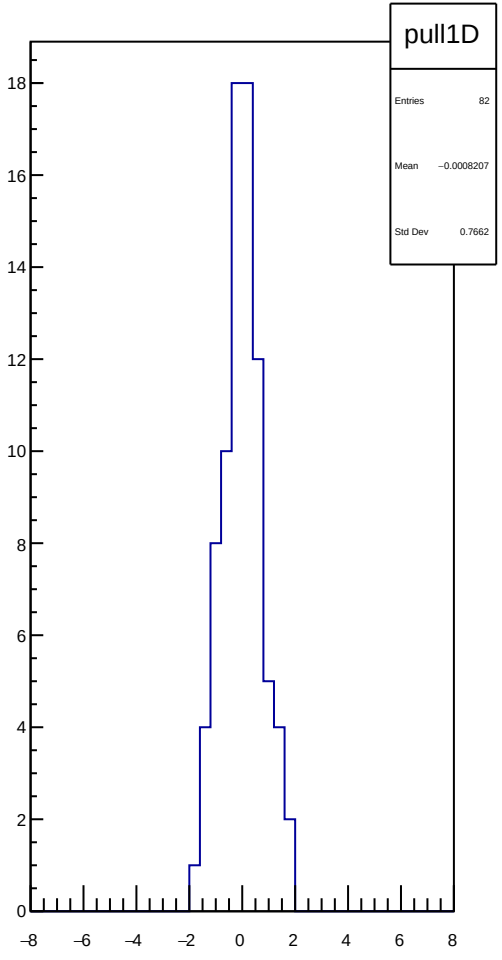

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 41.24 / 81
p0 6.173 ± 1.645
pull
Entries 82
Mean 567.6
Std Dev 526

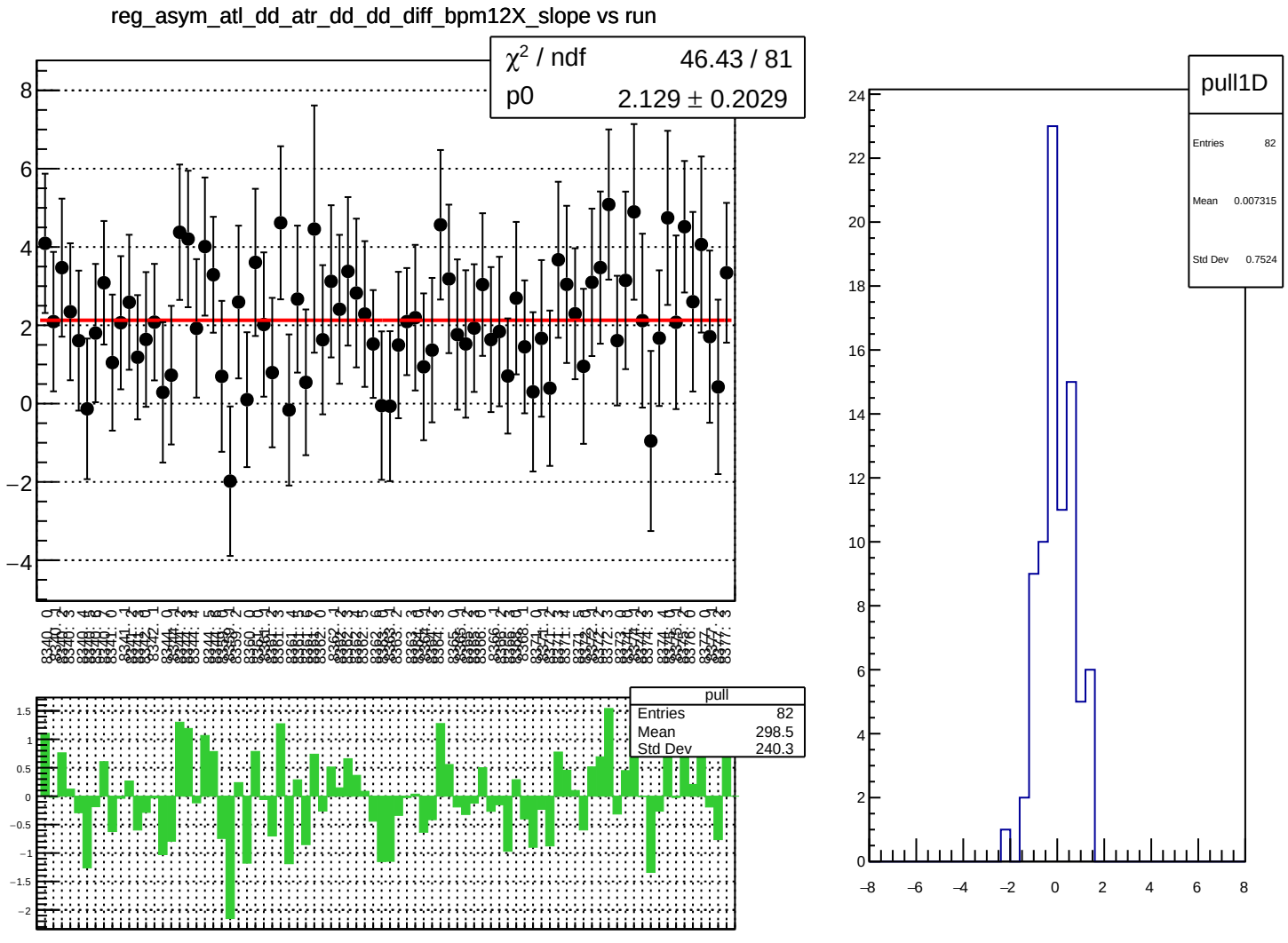

pull1D
Entries 82
Mean −0.001859
Std Dev 0.7092

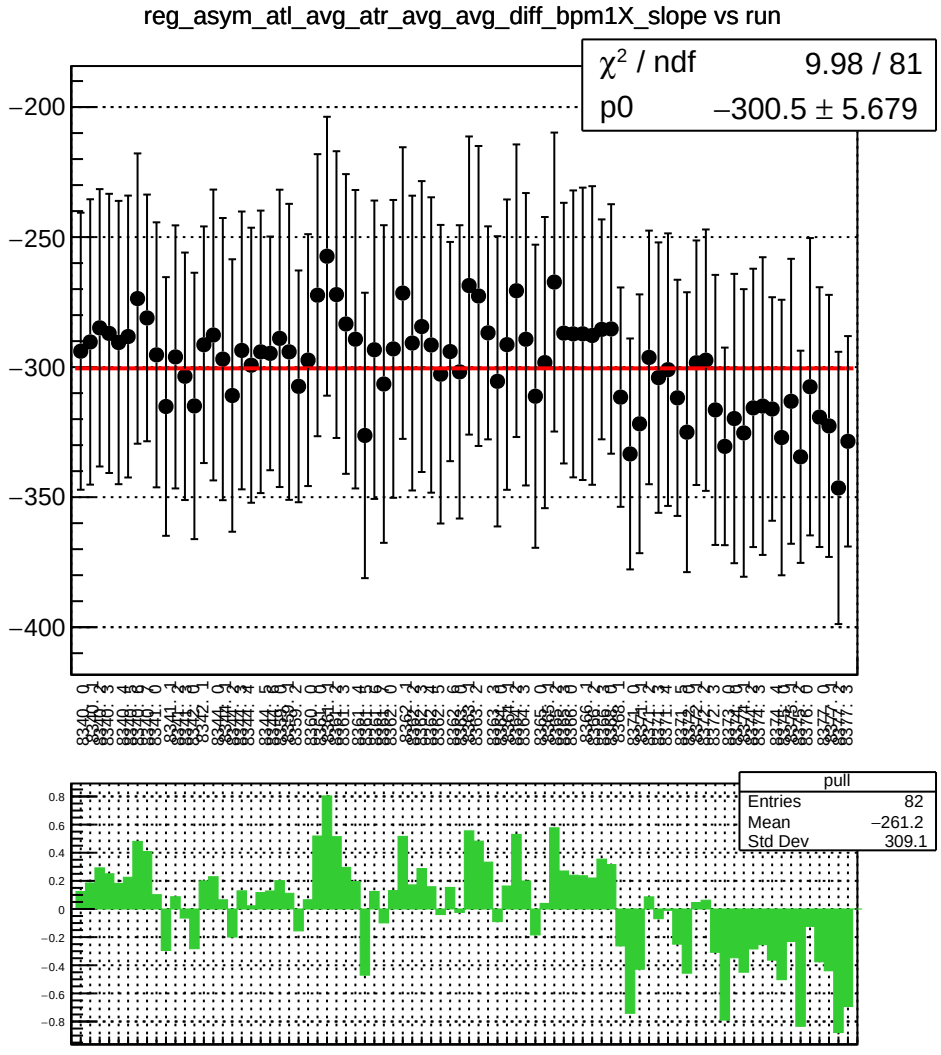

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.12 / 81
p0 8.147 ± 3.274
pull
Entries 82
Mean −7877
Std Dev 7911
pull1D
Entries 82
Mean −0.0003738
Std Dev 0.758

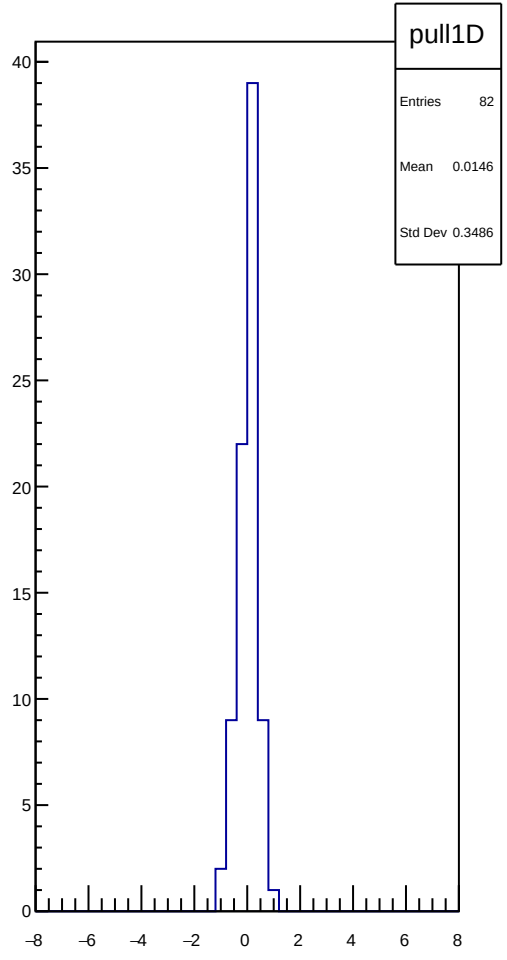

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.86 / 81
p0 59.58 ± 1.886
pull
Entries 82
Mean 303
Std Dev 257.4
pull1D
Entries 82
Mean 0.003116
Std Dev 0.723

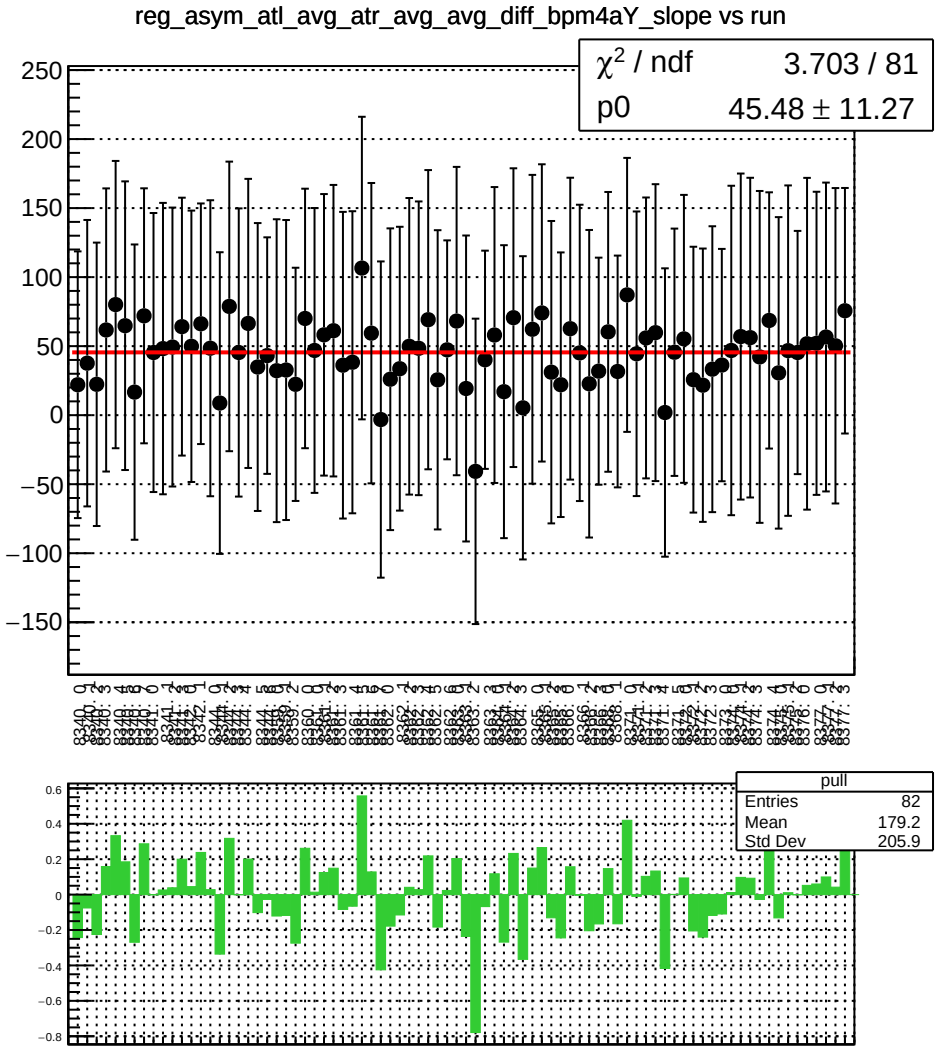

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.14 / 81
p0 −9.184 ± 3.381
pull
Entries 82
Mean 4116
Std Dev 4081

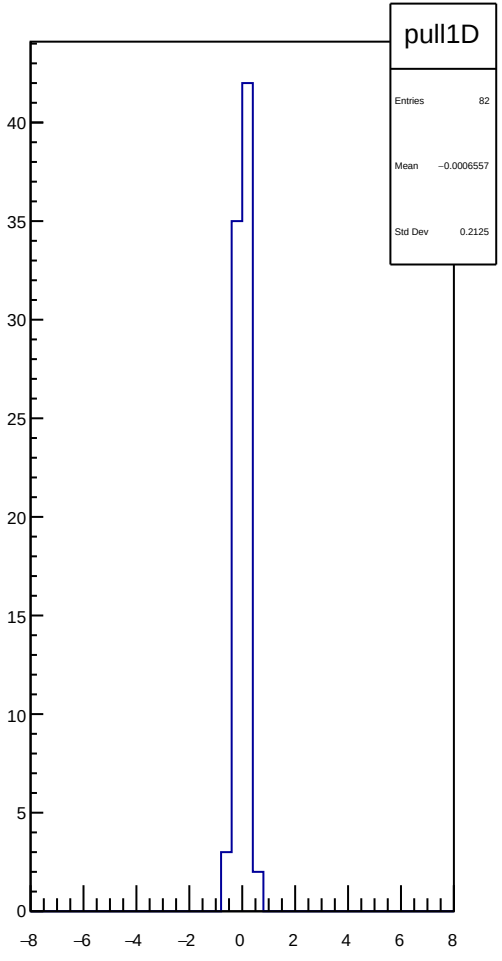

pull1D
Entries 82
Mean −0.0008207
Std Dev 0.7662

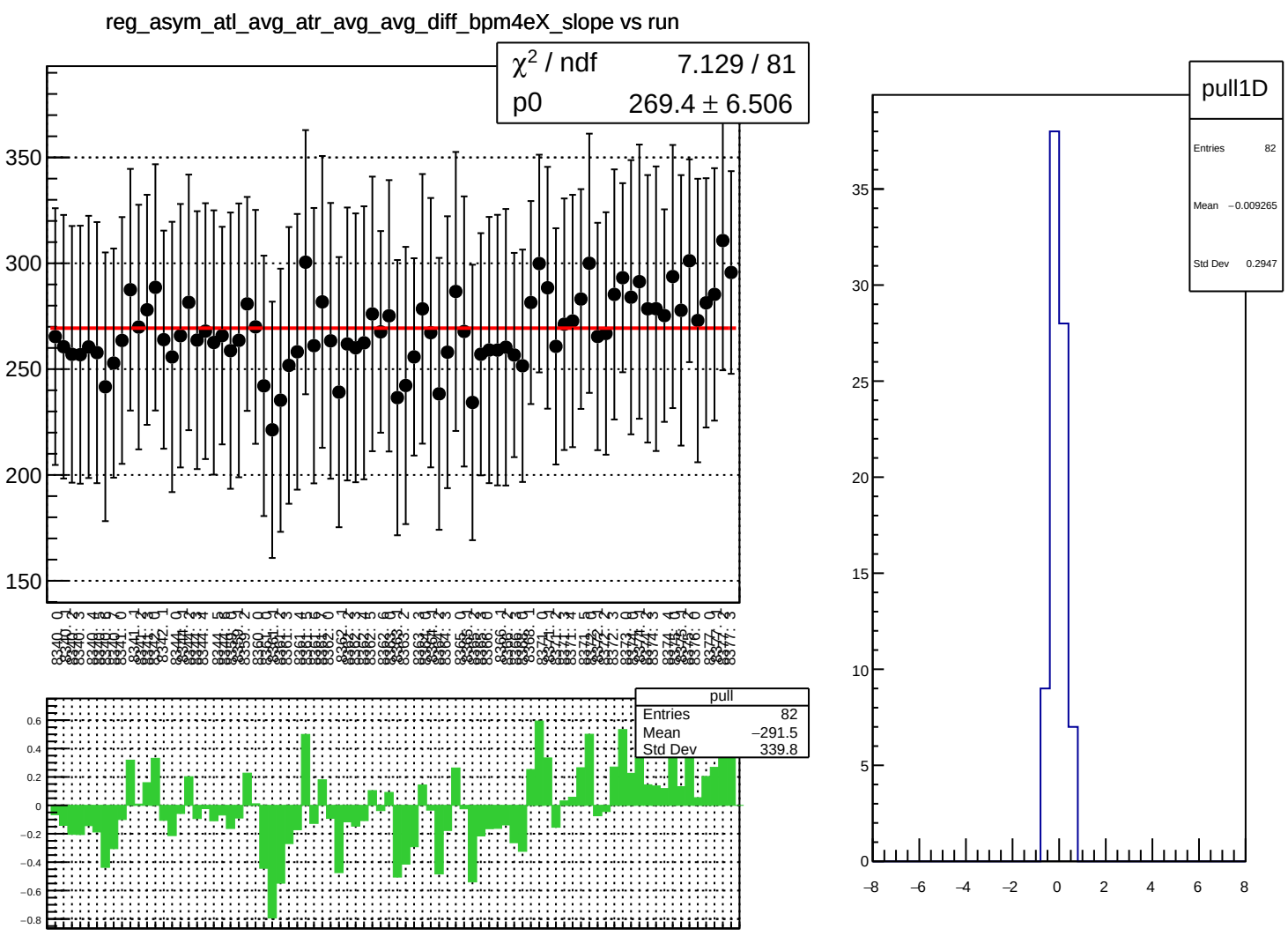

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 46.43 / 81
p0 2.129 ± 0.2029
pull
Entries 82
Mean 298.5
Std Dev 240.3
pull1D
Entries 82
Mean 0.007315
Std Dev 0.7524

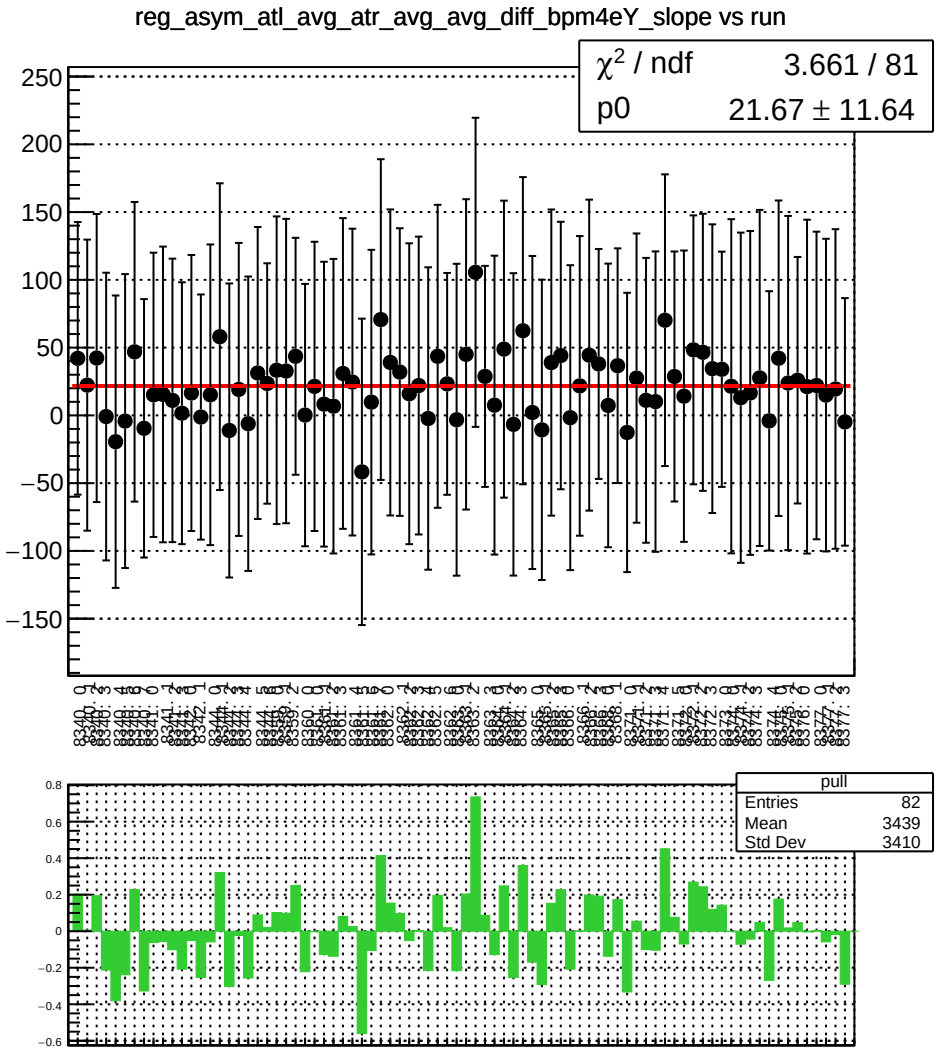

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 9.98 / 81
p0 −300.5 ± 5.679
−200
−250
−300
−350
−400
pull
Entries 82
Mean −261.2
Std Dev 309.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

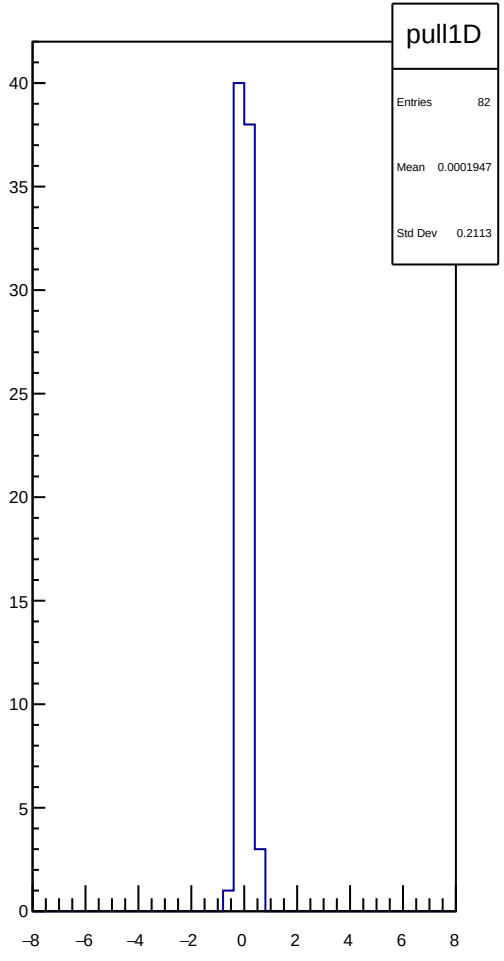

pull1D
Entries 82
Mean 0.0146
Std Dev 0.3486
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

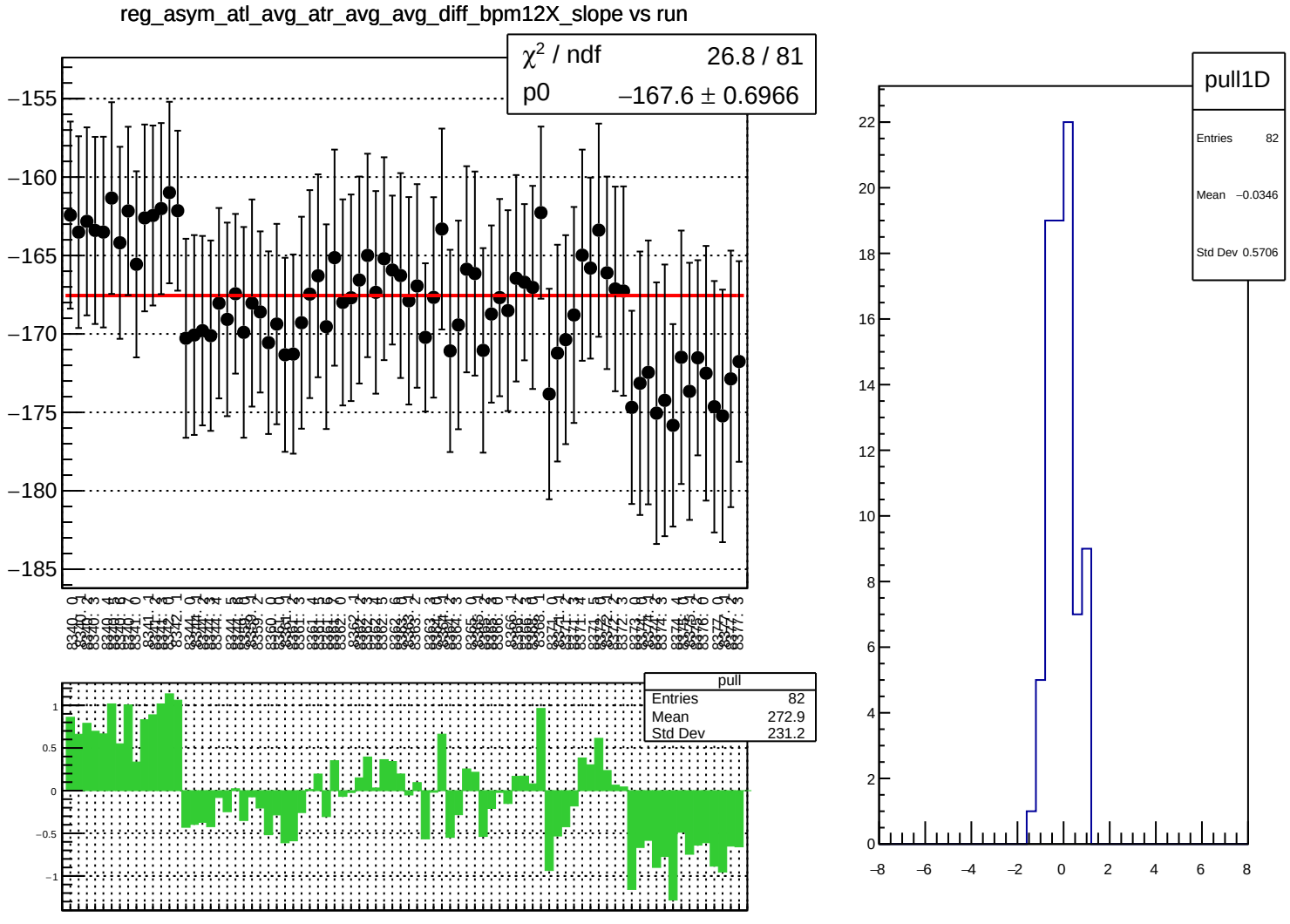

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.703 / 81
p0 45.48 ± 11.27
pull
Entries 82
Mean 179.2
Std Dev 205.9

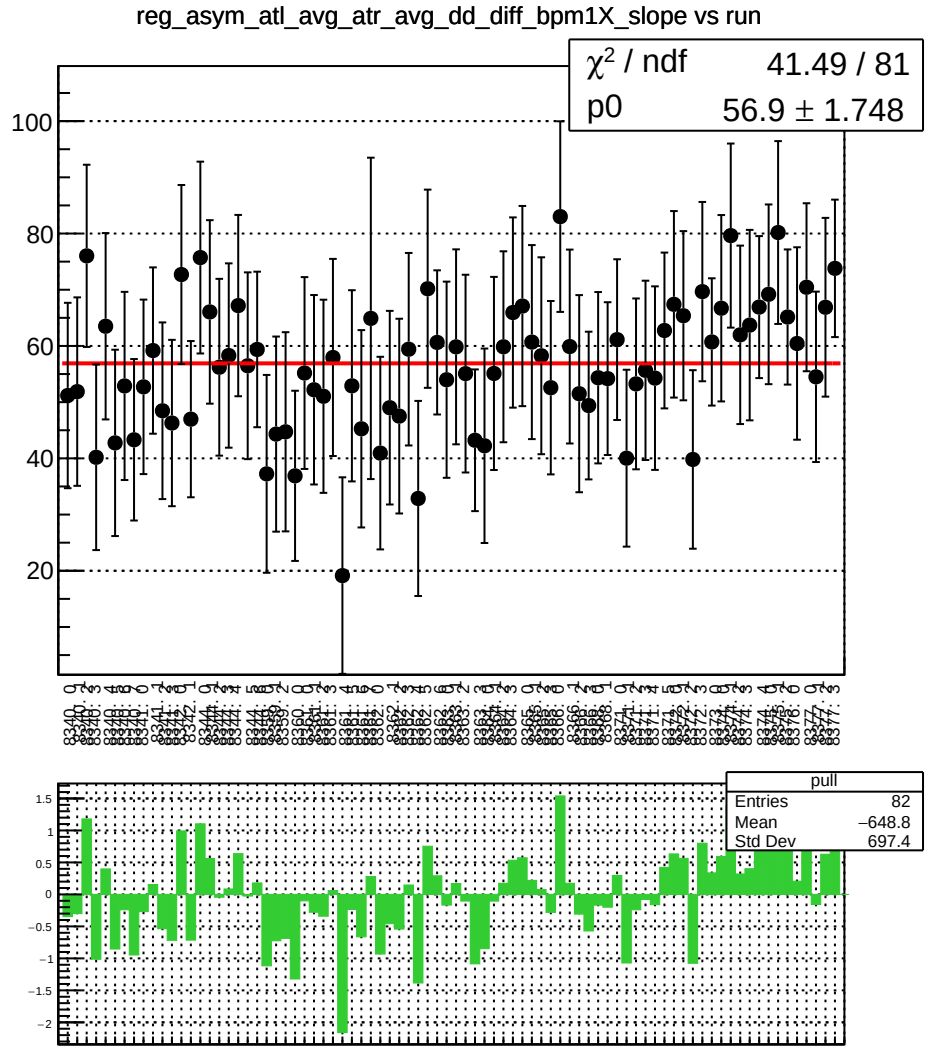

pull1D
Entries 82
Mean −0.0006557
Std Dev 0.2125

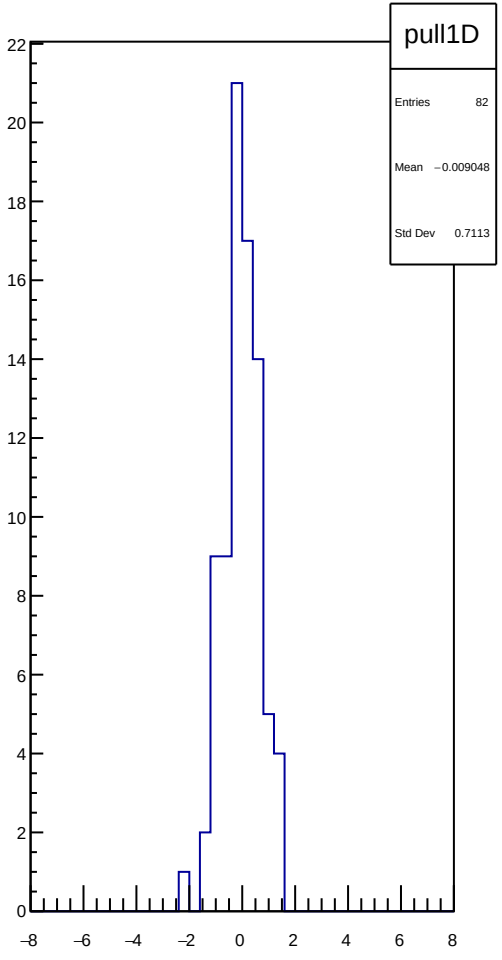

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.129 / 81
p0 269.4 ± 6.506
350
300
250
200
150
pull
Entries 82
Mean −291.5
Std Dev 339.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 82
Mean −0.009265
Std Dev 0.2947
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

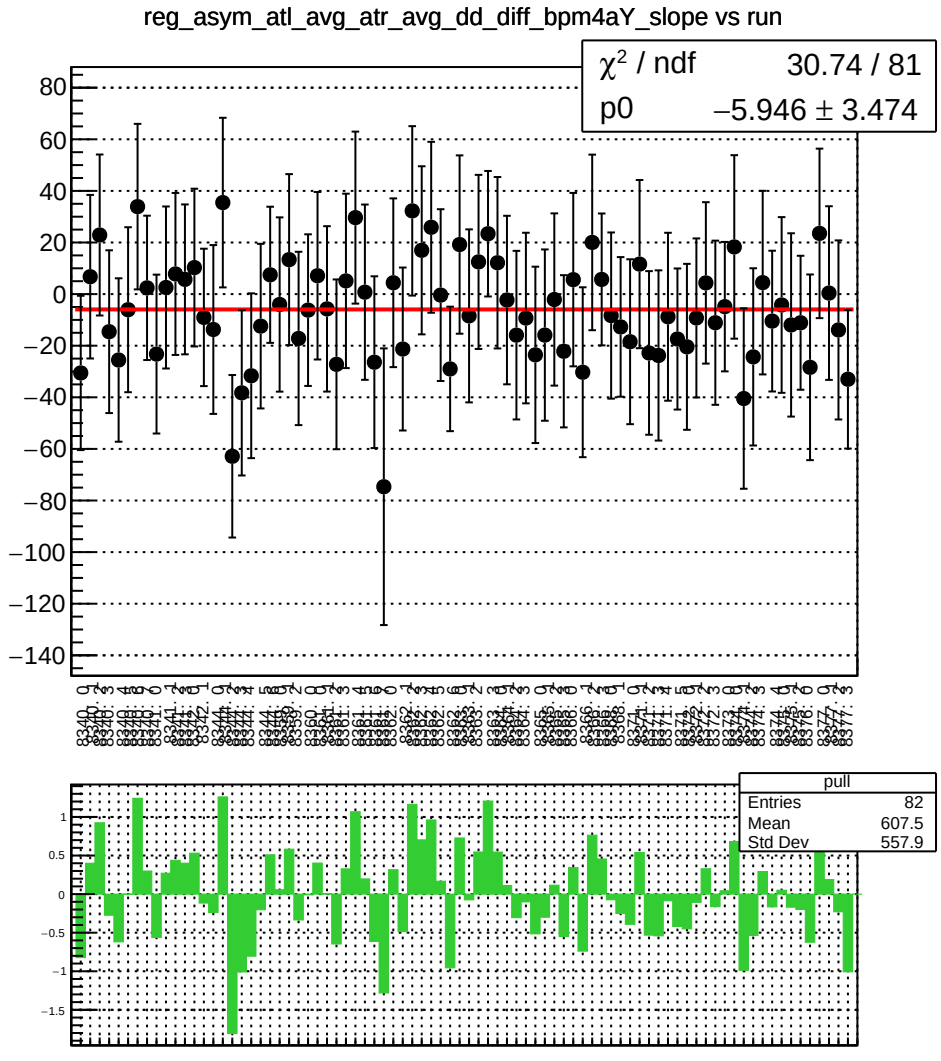

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.661 / 81
p0 21.67 ± 11.64
pull
Entries 82
Mean 3439
Std Dev 3410

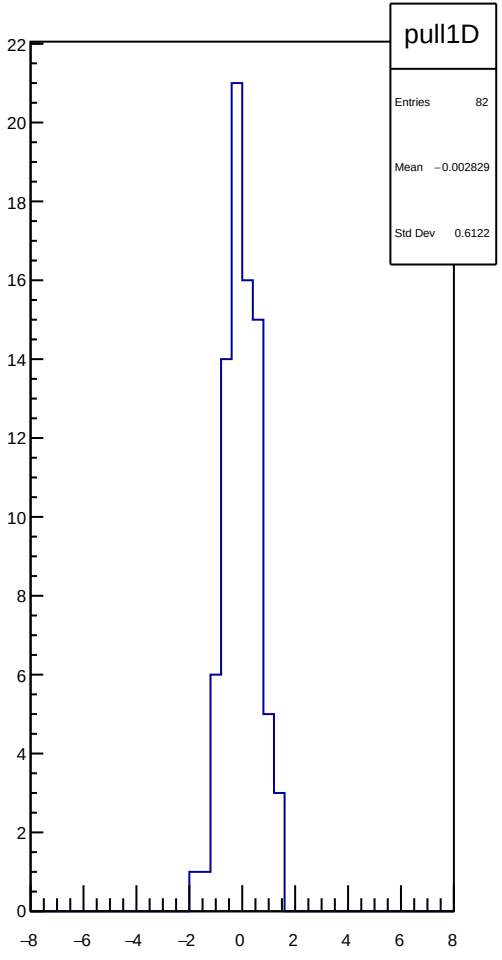

pull1D
Entries 82
Mean 0.0001947
Std Dev 0.2113

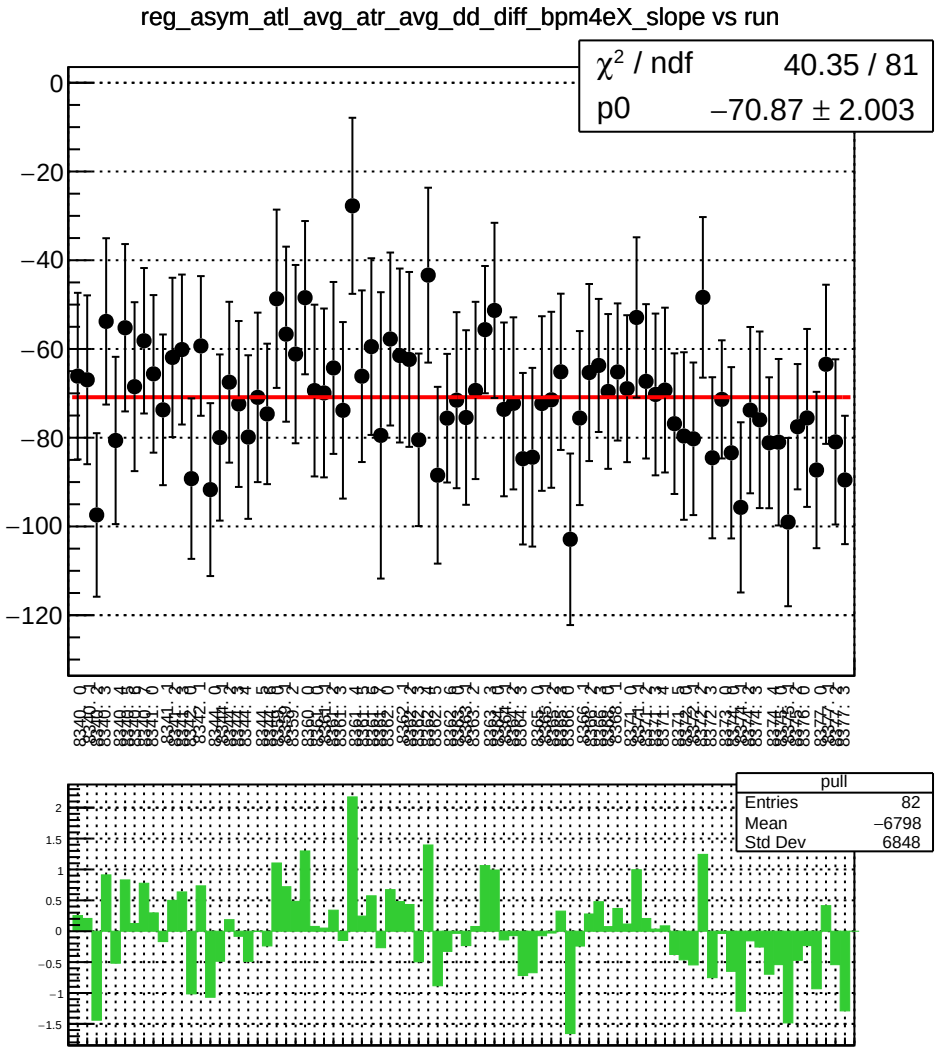

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 26.8 / 81
p0 −167.6 ± 0.6966
pull
Entries 82
Mean 272.9
Std Dev 231.2
pull1D
Entries 82
Mean −0.0346
Std Dev 0.5706

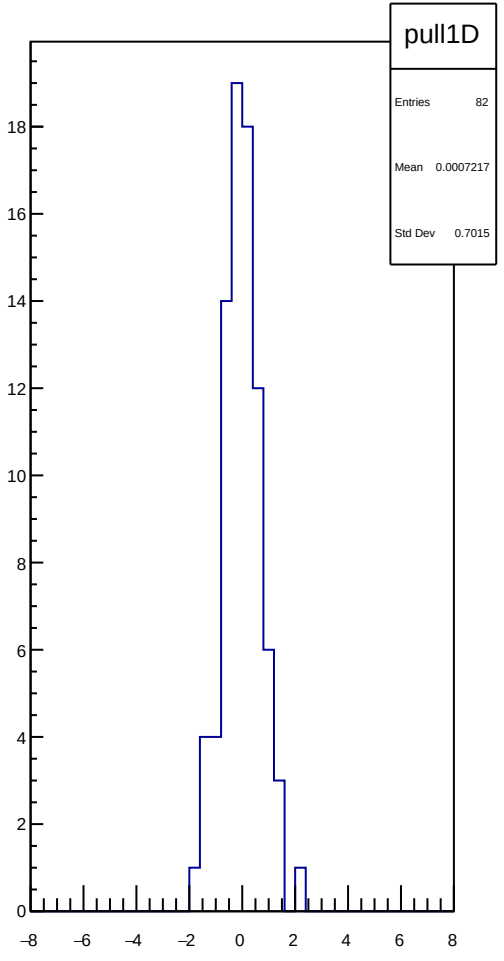

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 41.49 / 81
p0 56.9 ± 1.748
pull
Entries 82
Mean −648.8
Std Dev 697.4

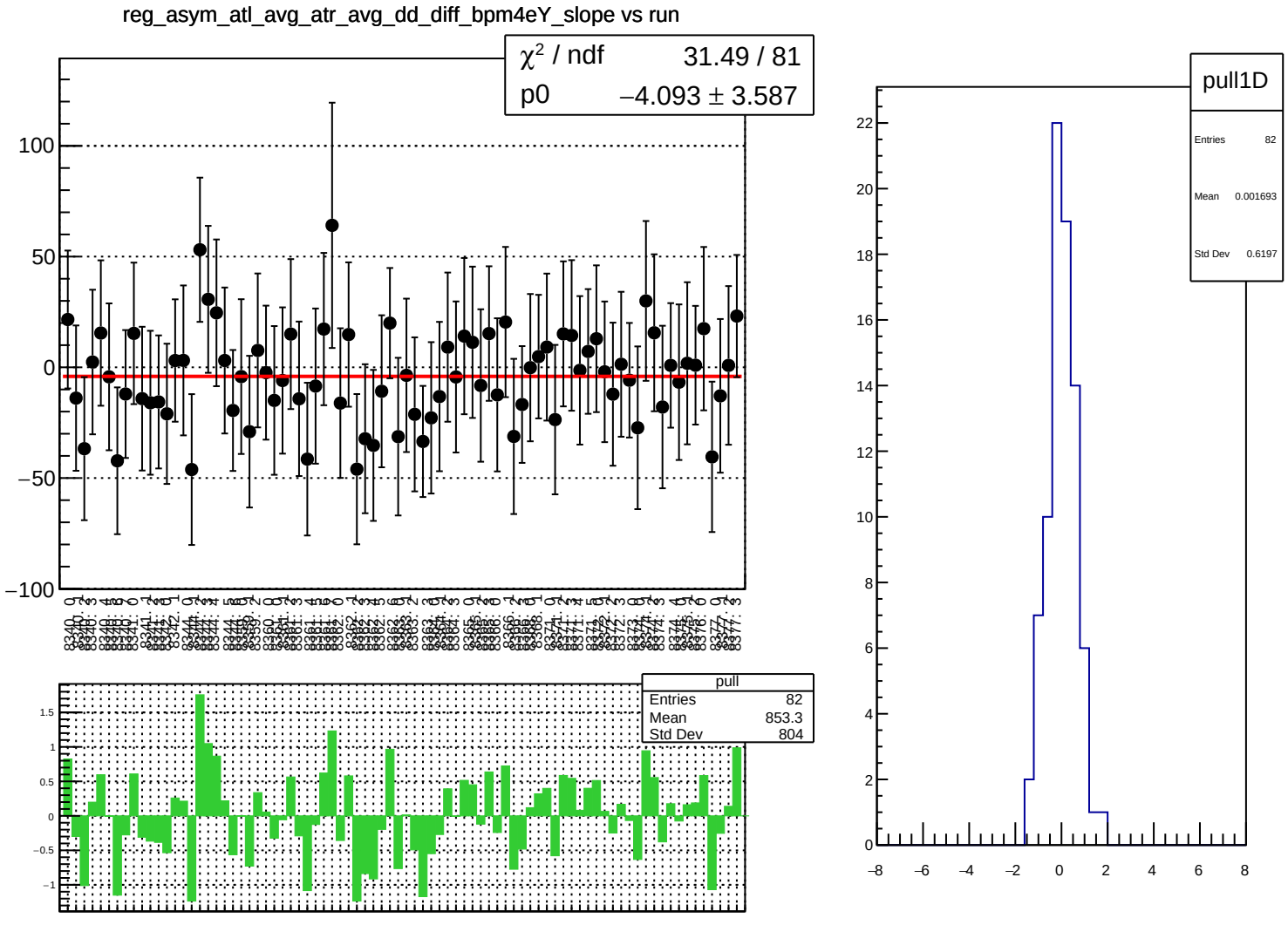

pull1D
Entries 82
Mean −0.009048
Std Dev 0.7113

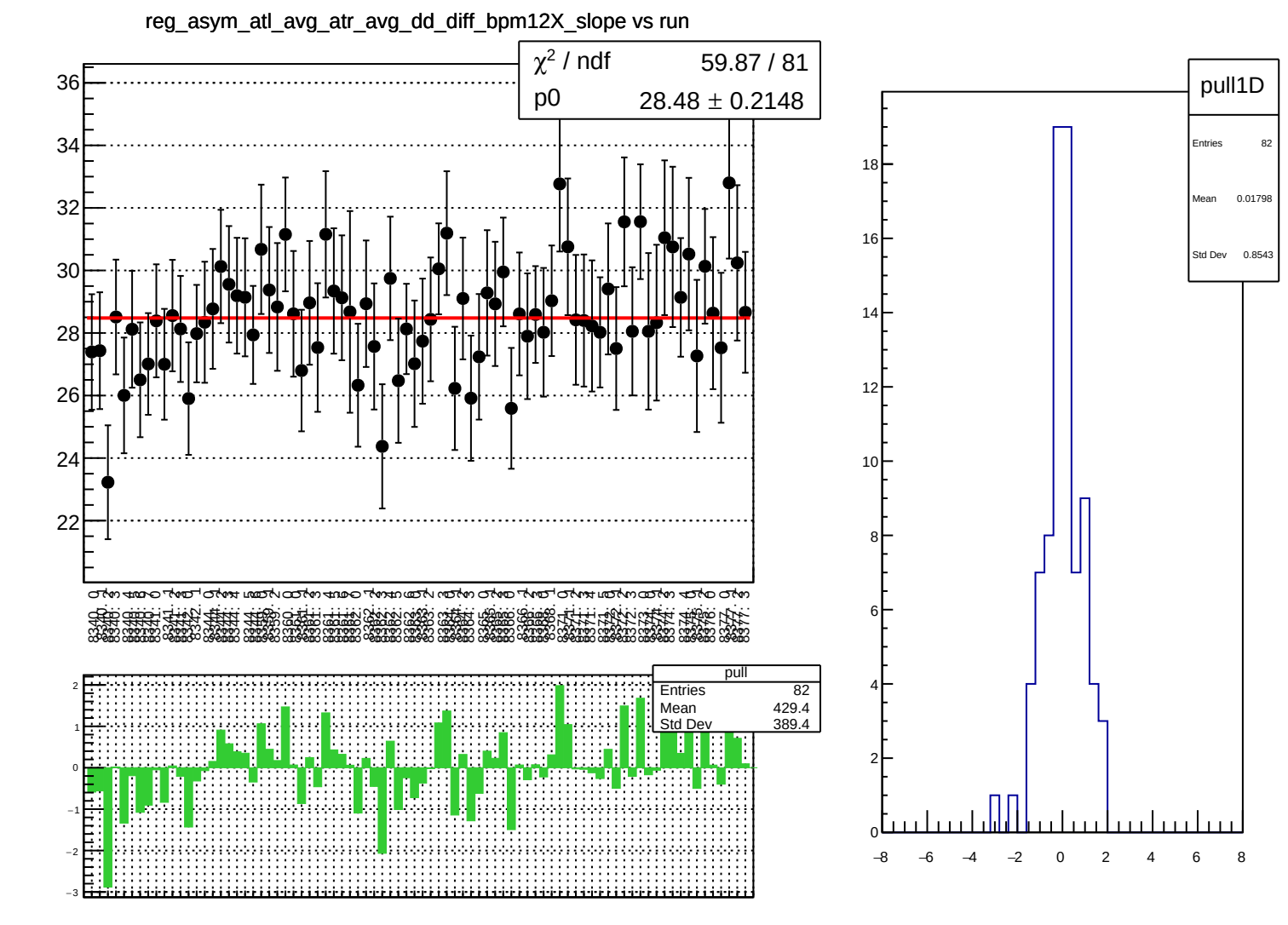

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.74 / 81
p0 −5.946 ± 3.474
pull
Entries 82
Mean 607.5
Std Dev 557.9

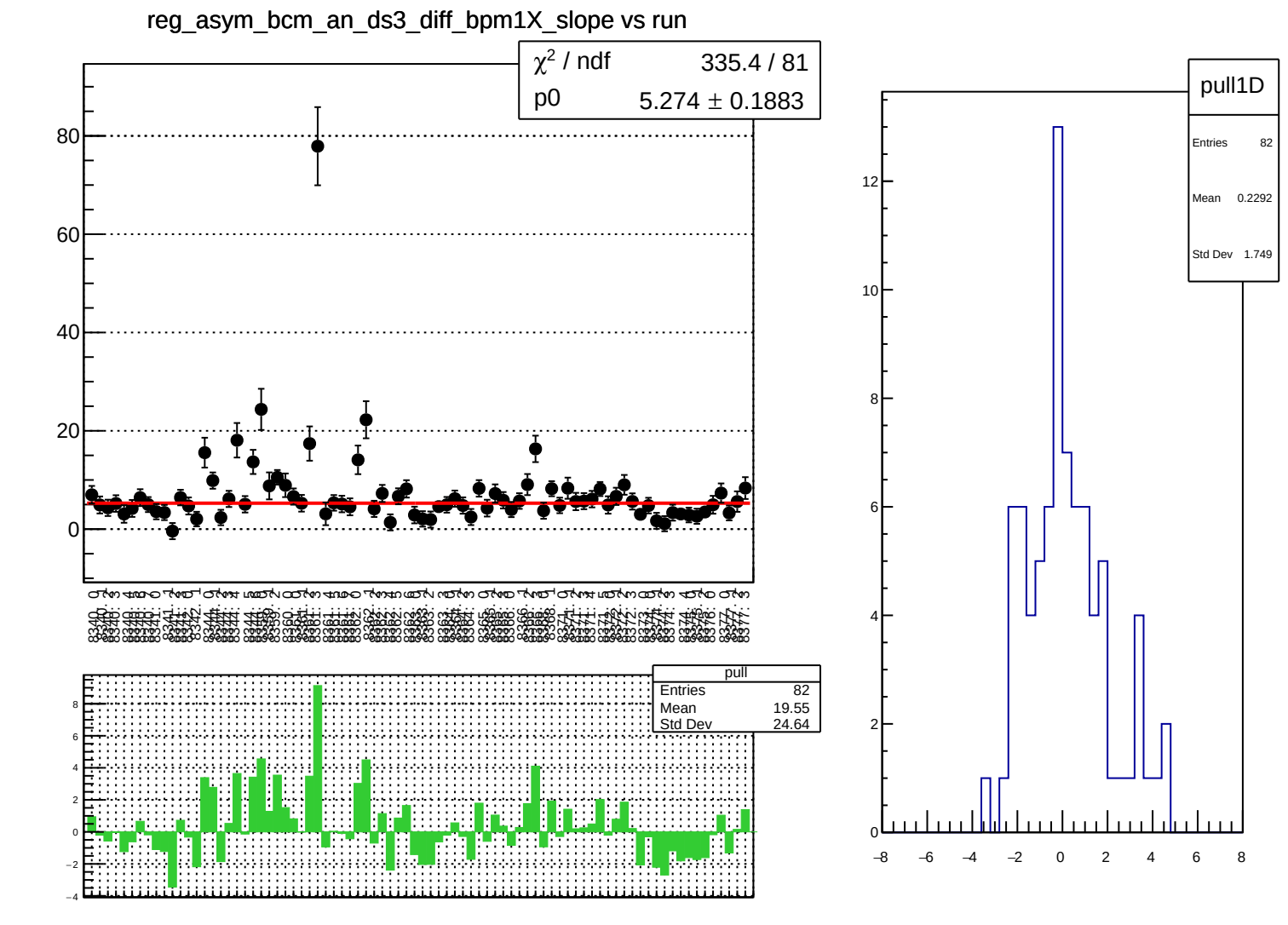

pull1D
Entries 82
Mean −0.002829
Std Dev 0.6122

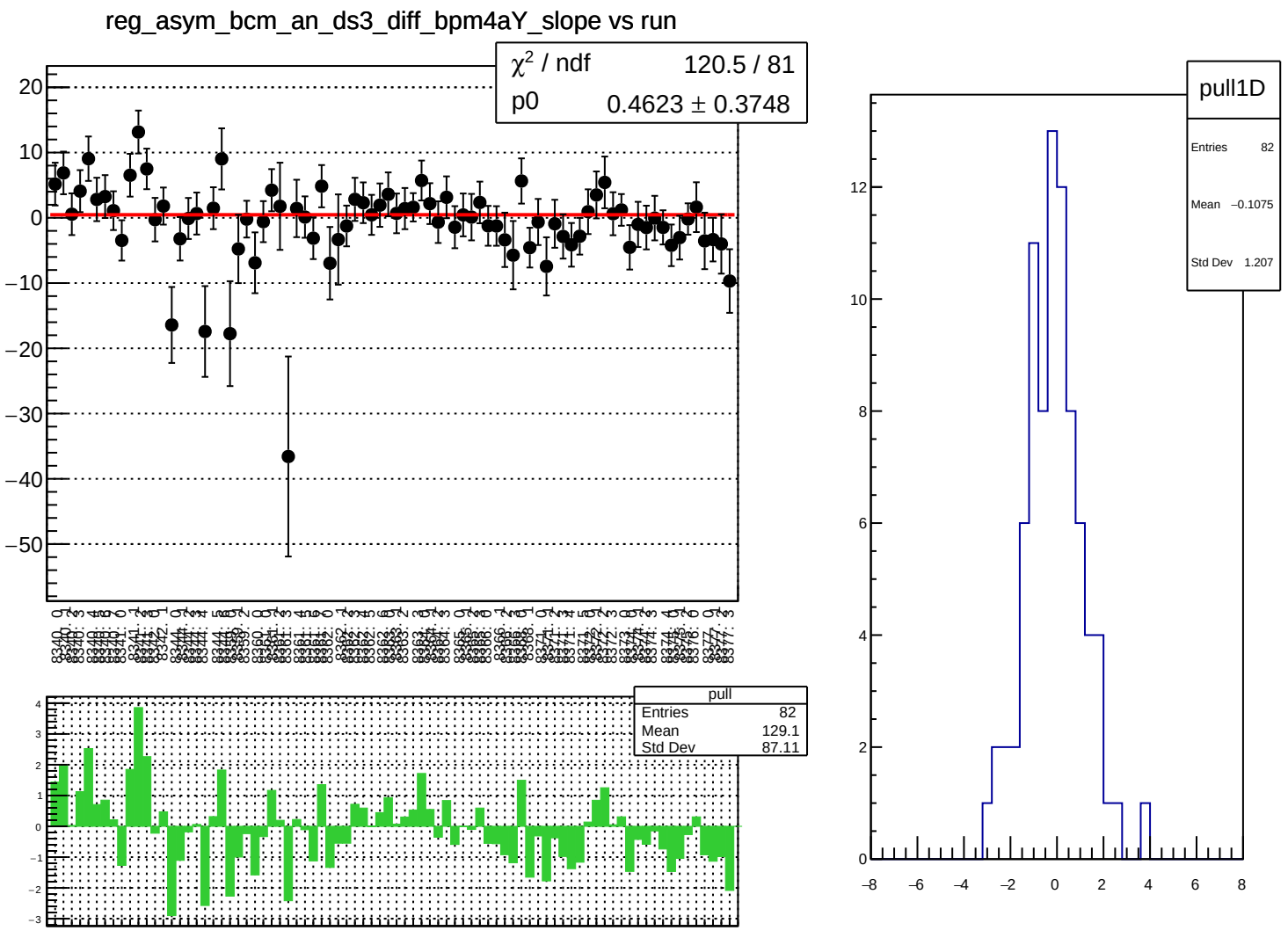

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.35 / 81
p0 −70.87 ± 2.003
pull
Entries 82
Mean −6798
Std Dev 6848

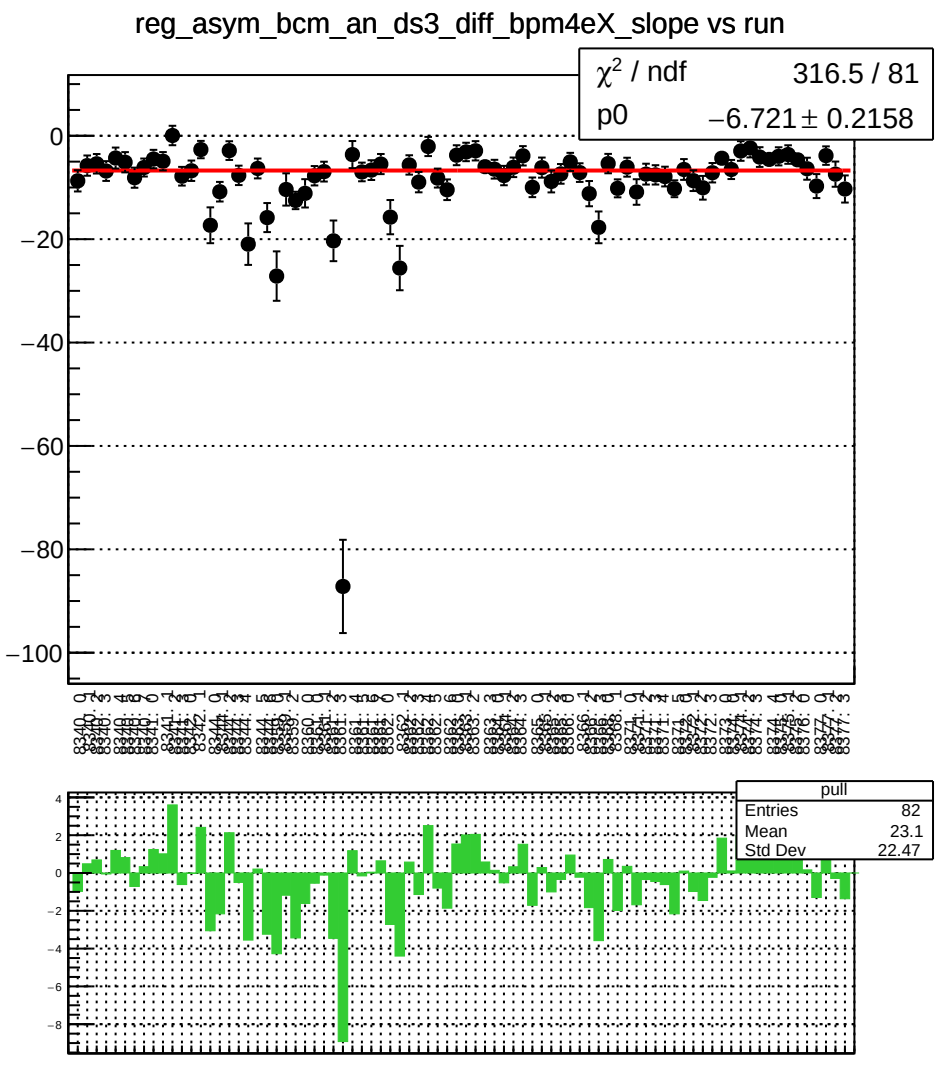

pull1D
Entries 82
Mean 0.0007217
Std Dev 0.7015

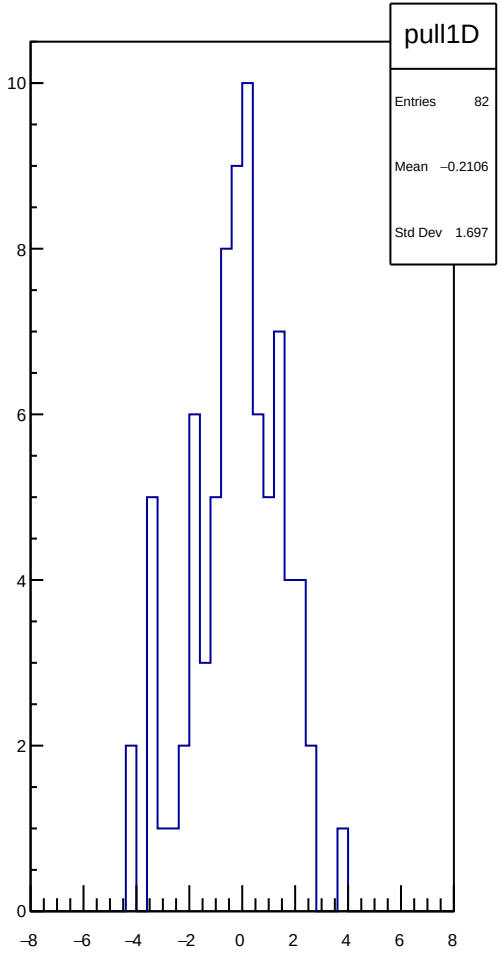

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.49 / 81
p0 −4.093 ± 3.587
pull
Entries 82
Mean 853.3
Std Dev 804
pull1D
Entries 82
Mean 0.001693
Std Dev 0.6197

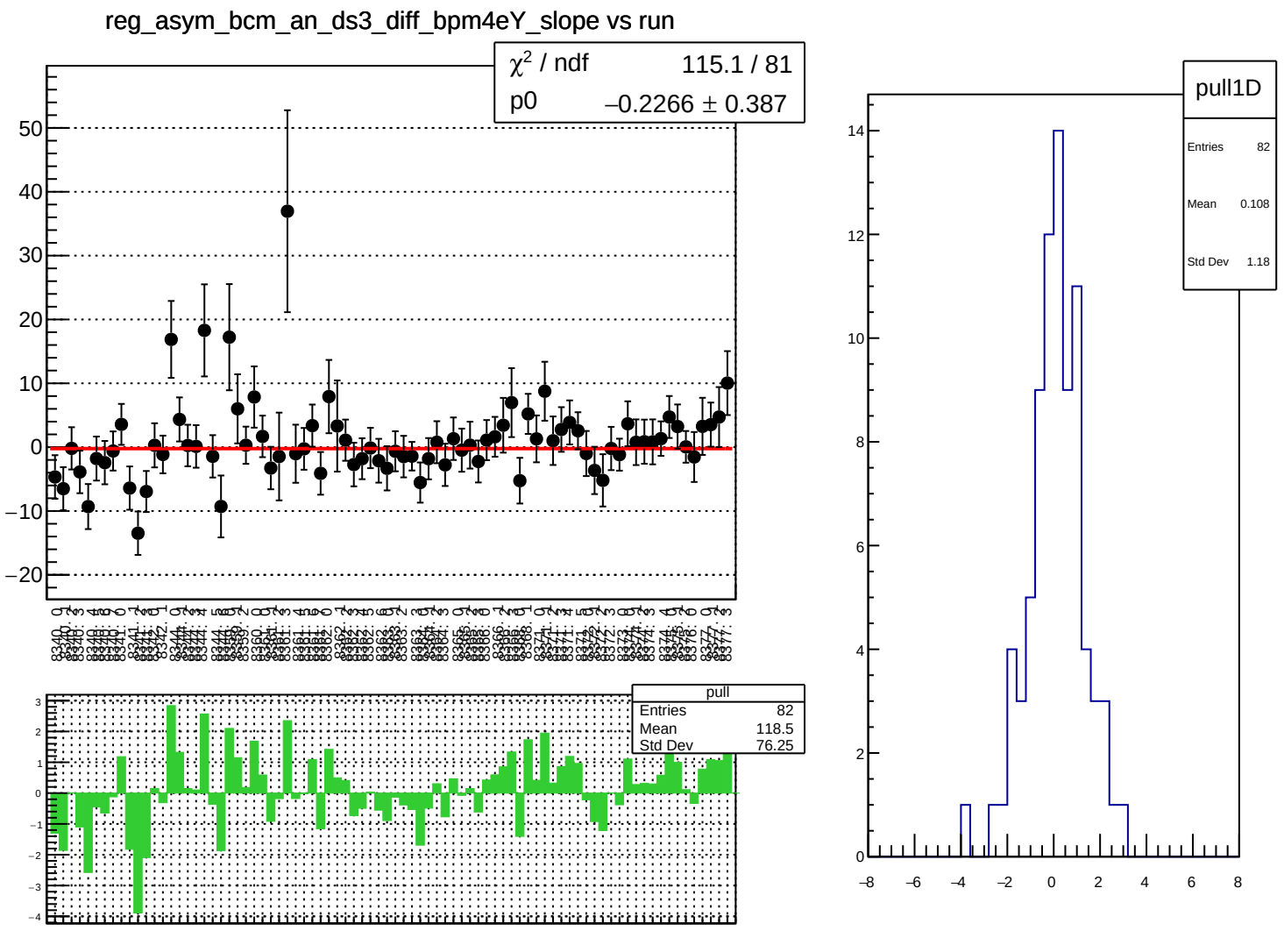

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 59.87 / 81
p0 28.48 ± 0.2148
pull
Entries 82
Mean 429.4
Std Dev 389.4
pull1D
Entries 82
Mean 0.01798
Std Dev 0.8543

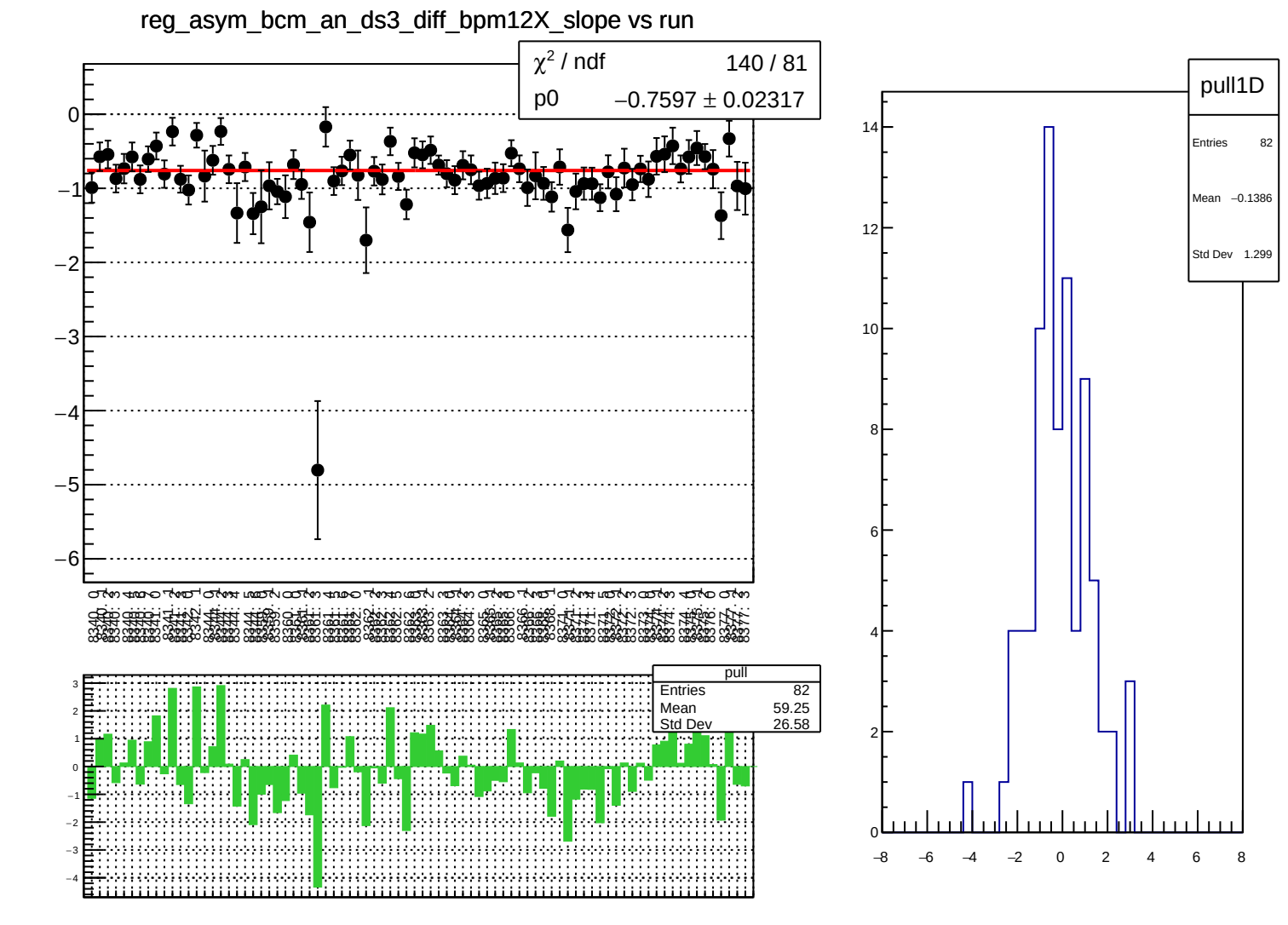

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 335.4 / 81
p0 5.274 ± 0.1883
pull
Entries 82
Mean 19.55
Std Dev 24.64
pull1D
Entries 82
Mean 0.2292
Std Dev 1.749

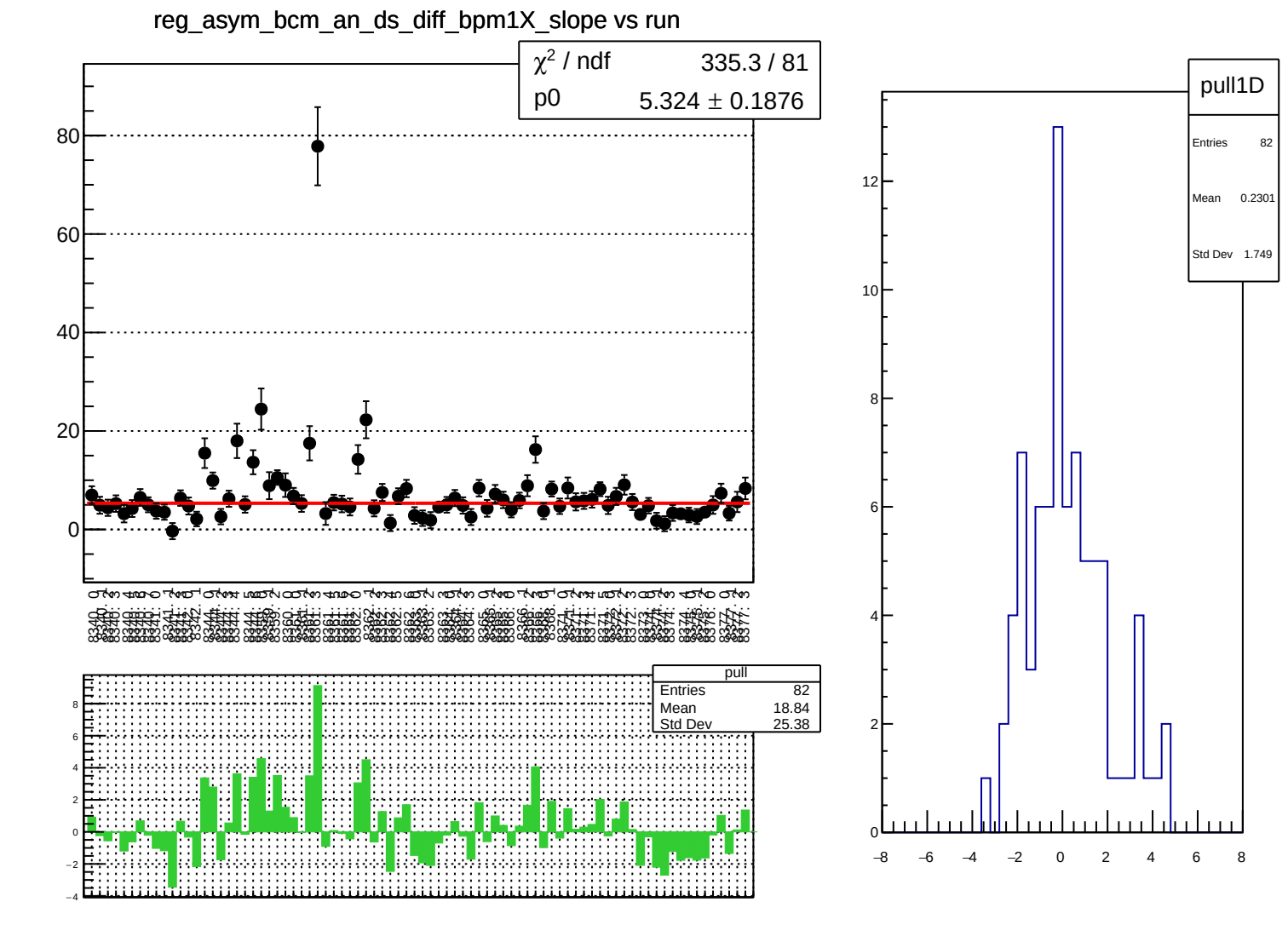

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 120.5 / 81
p0 0.4623 ± 0.3748
pull
Entries 82
Mean 129.1
Std Dev 87.11
pull1D
Entries 82
Mean −0.1075
Std Dev 1.207

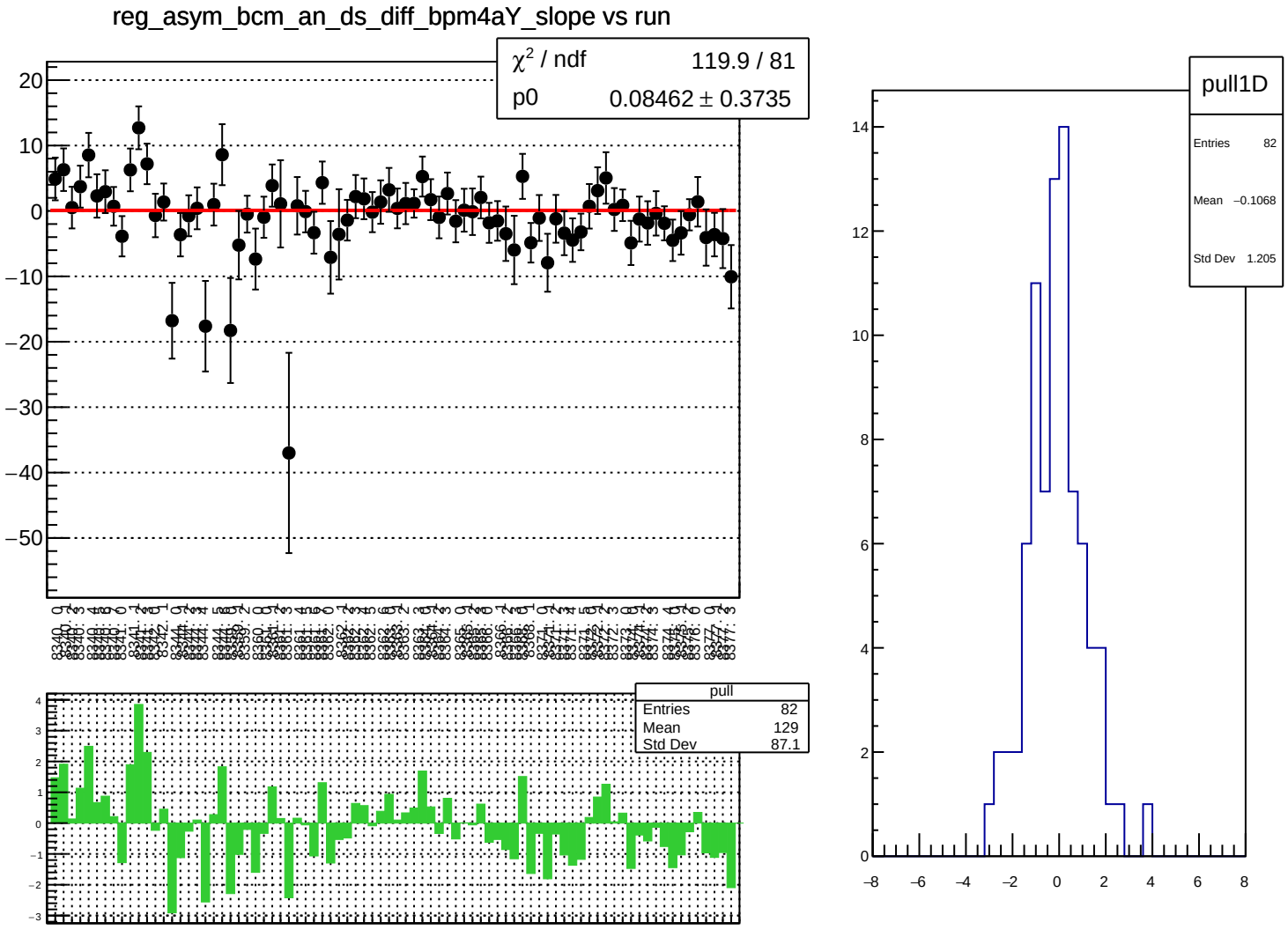

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 316.5 / 81
p0 −6.721 ± 0.2158
pull
Entries 82
Mean 23.1
Std Dev 22.47

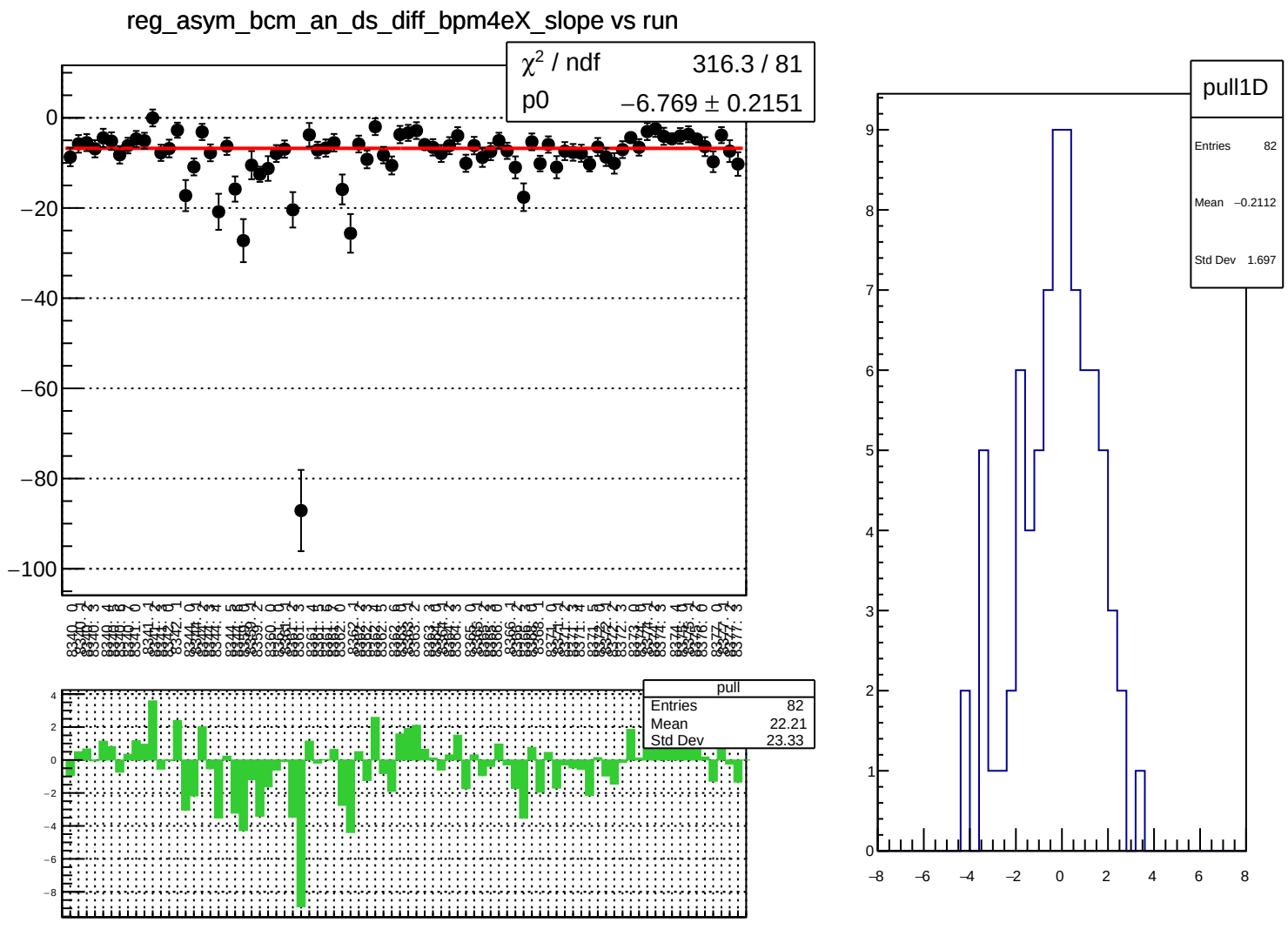

pull1D
Entries 82
Mean −0.2106
Std Dev 1.697

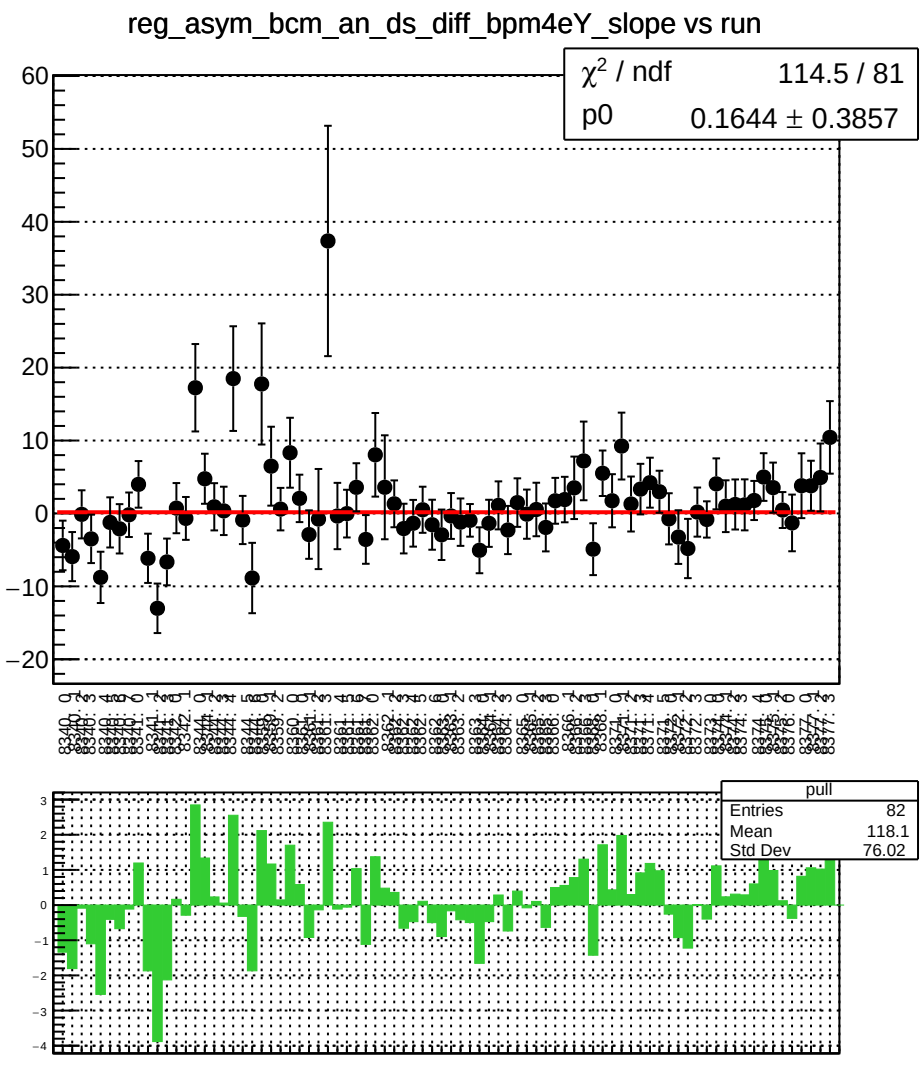

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 115.1 / 81
p0 −0.2266 ± 0.387
pull
Entries 82
Mean 118.5
Std Dev 76.25
pull1D
Entries 82
Mean 0.108
Std Dev 1.18

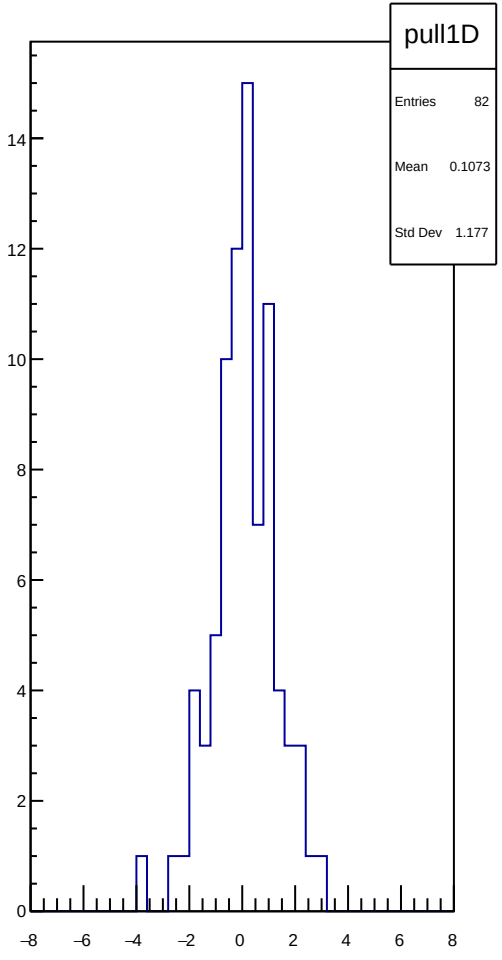

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 140 / 81
p0 −0.7597 ± 0.02317
pull
Entries 82
Mean 59.25
Std Dev 26.58
pull1D
Entries 82
Mean −0.1386
Std Dev 1.299

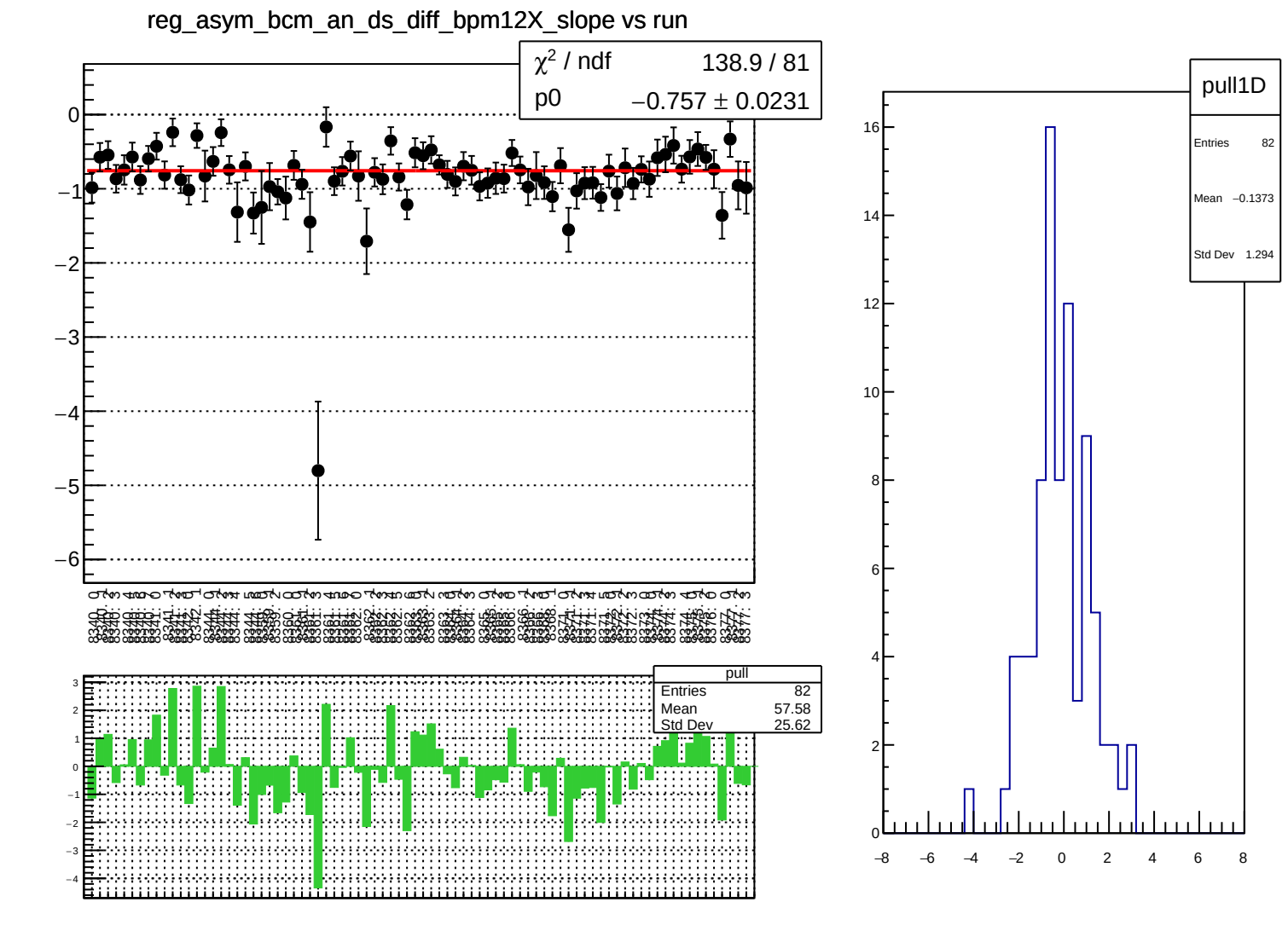

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 335.3 / 81
p0 5.324 ± 0.1876
pull
Entries 82
Mean 18.84
Std Dev 25.38
pull1D
Entries 82
Mean 0.2301
Std Dev 1.749

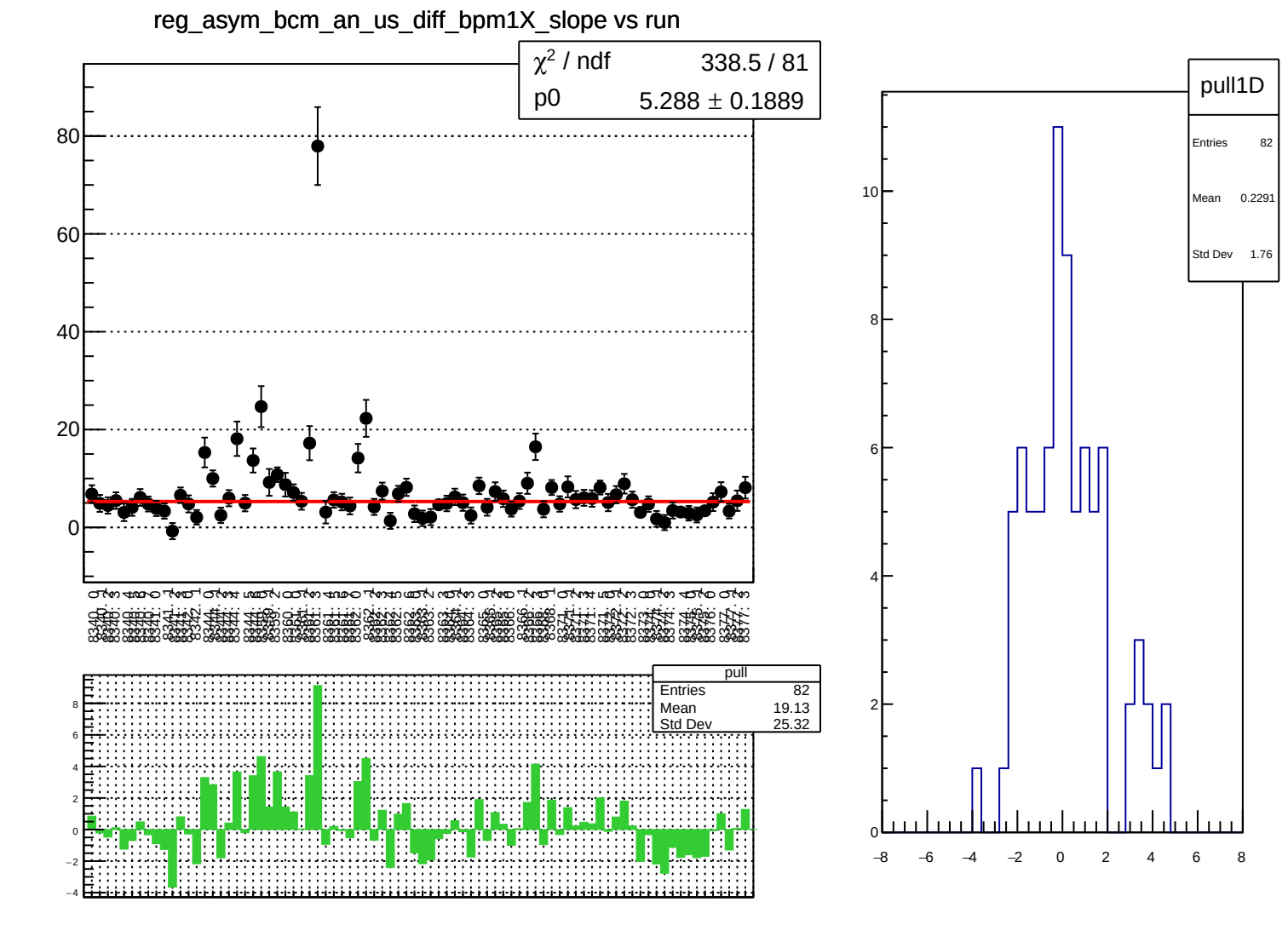

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 119.9 / 81
p0 0.08462 ± 0.3735
pull
Entries 82
Mean 129
Std Dev 87.1
pull1D
Entries 82
Mean −0.1068
Std Dev 1.205

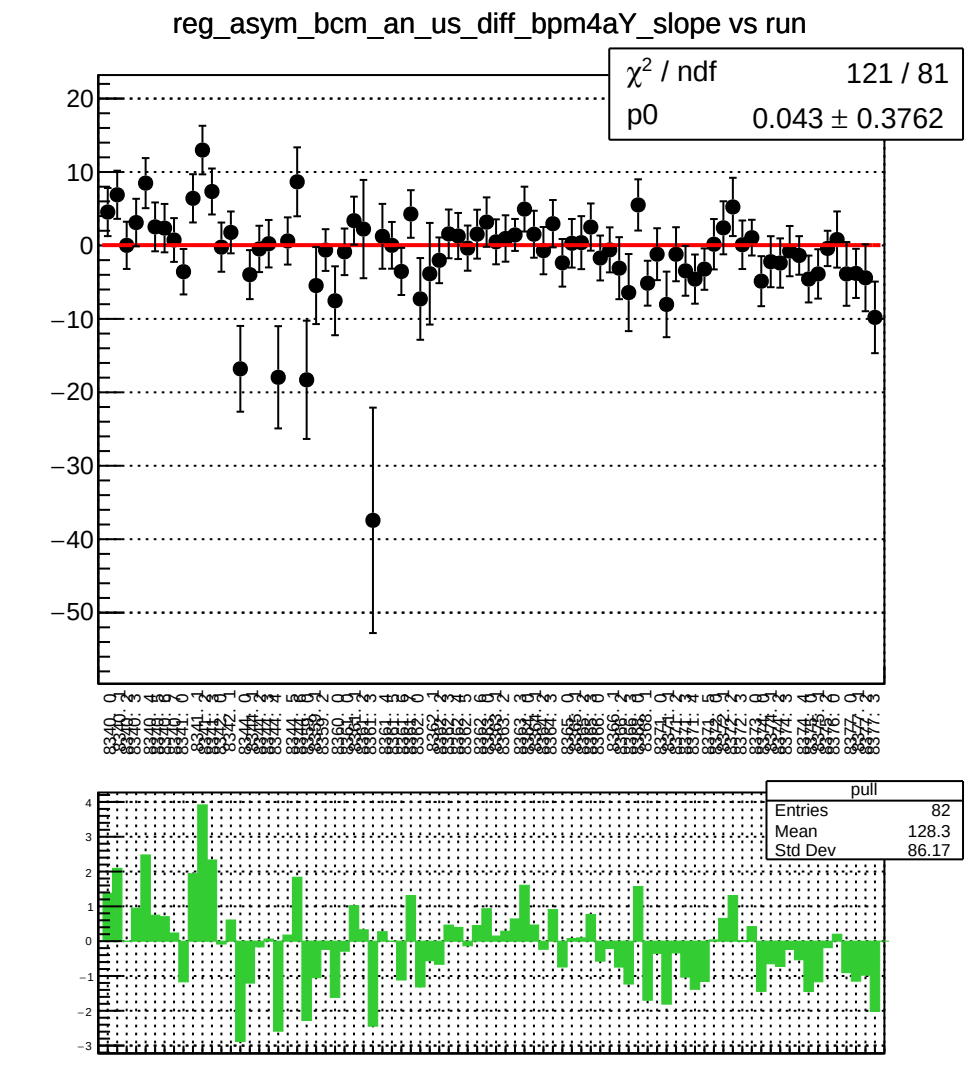

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 316.3 / 81
p0 −6.769 ± 0.2151
pull
Entries 82
Mean 22.21
Std Dev 23.33
pull1D
Entries 82
Mean −0.2112
Std Dev 1.697

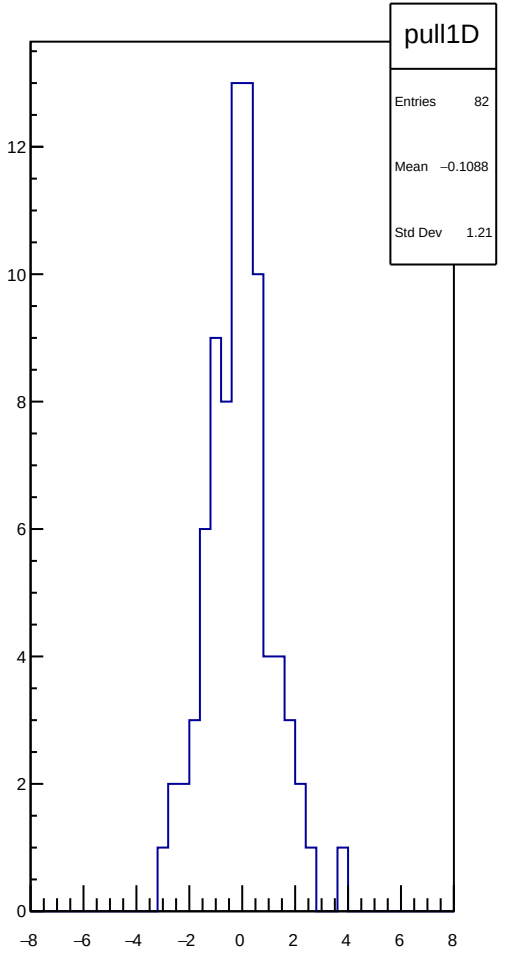

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 114.5 / 81
p0 0.1644 ± 0.3857
pull
Entries 82
Mean 118.1
Std Dev 76.02

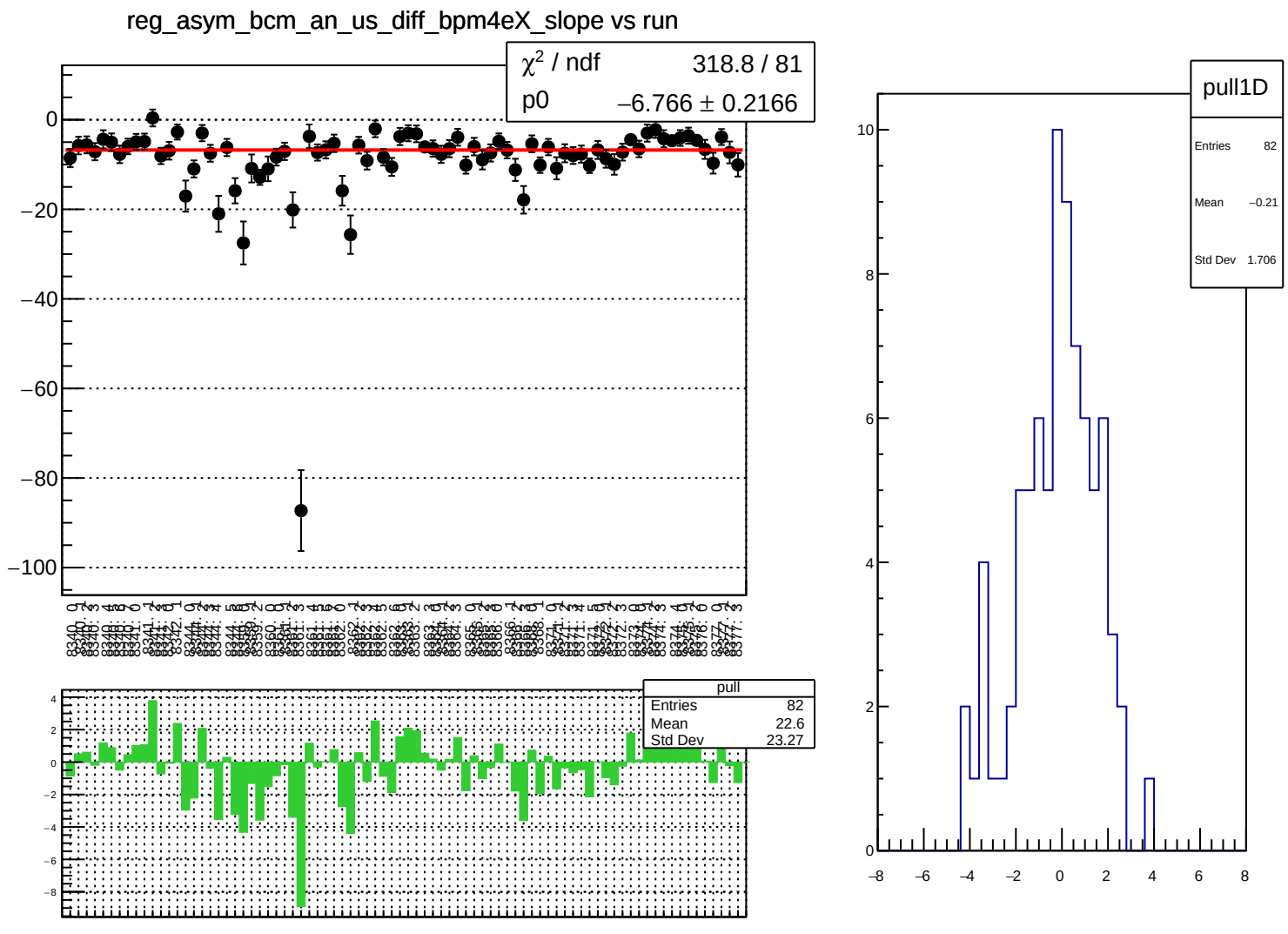

pull1D
Entries 82
Mean 0.1073
Std Dev 1.177

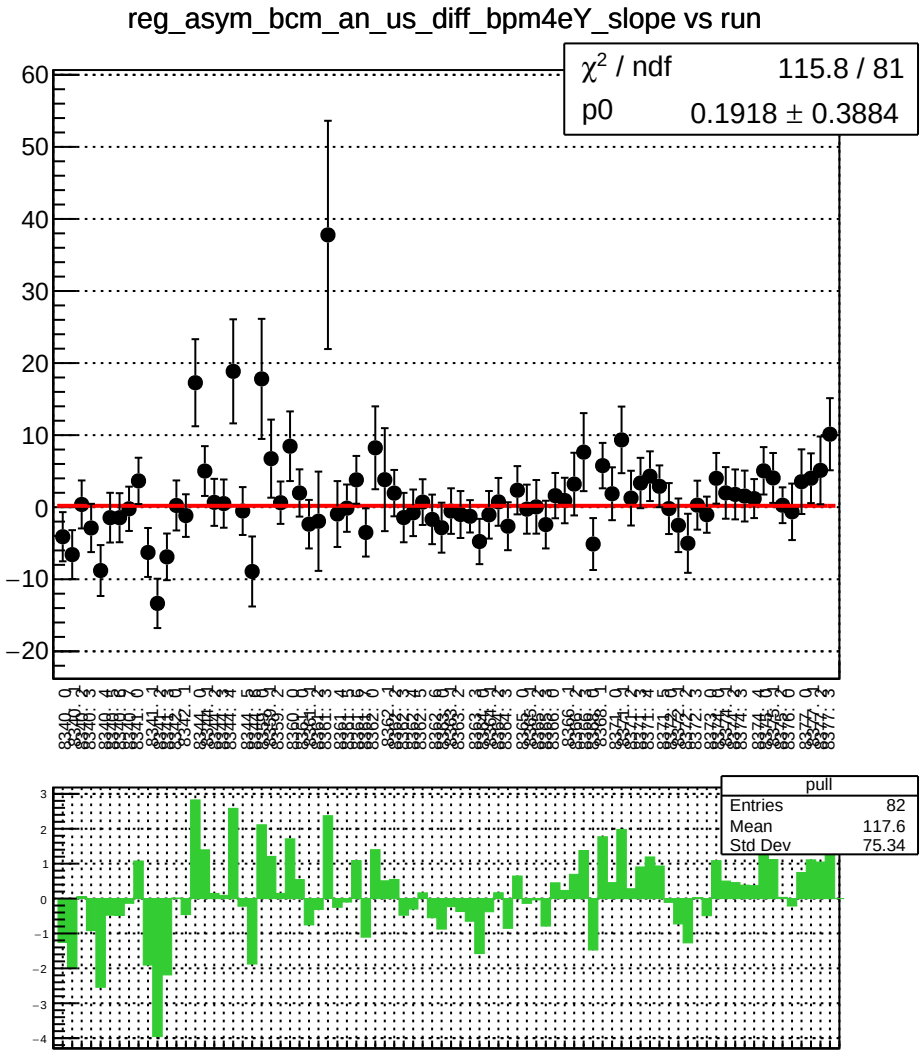

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 138.9 / 81
p0 −0.757 ± 0.0231
pull
Entries 82
Mean 57.58
Std Dev 25.62
pull1D
Entries 82
Mean −0.1373
Std Dev 1.294

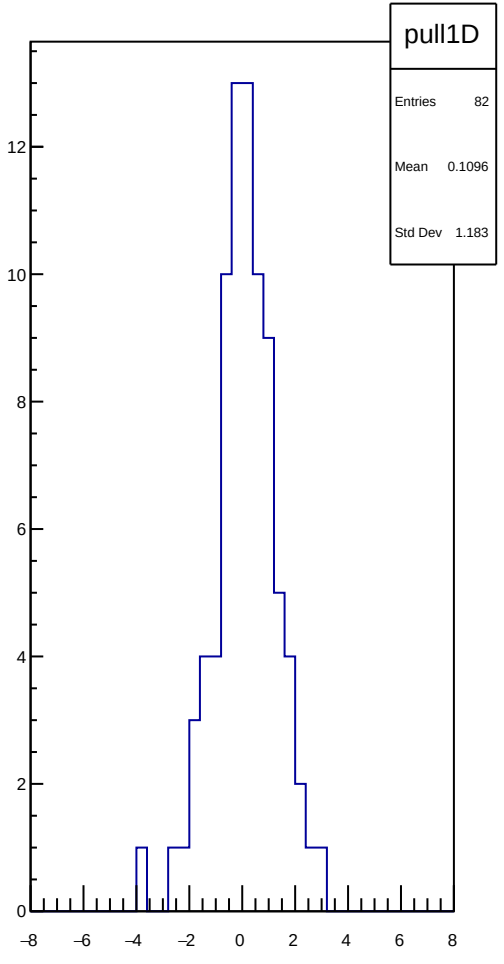

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 338.5 / 81
p0 5.288 ± 0.1889
pull
Entries 82
Mean 19.13
Std Dev 25.32
pull1D
Entries 82
Mean 0.2291
Std Dev 1.76

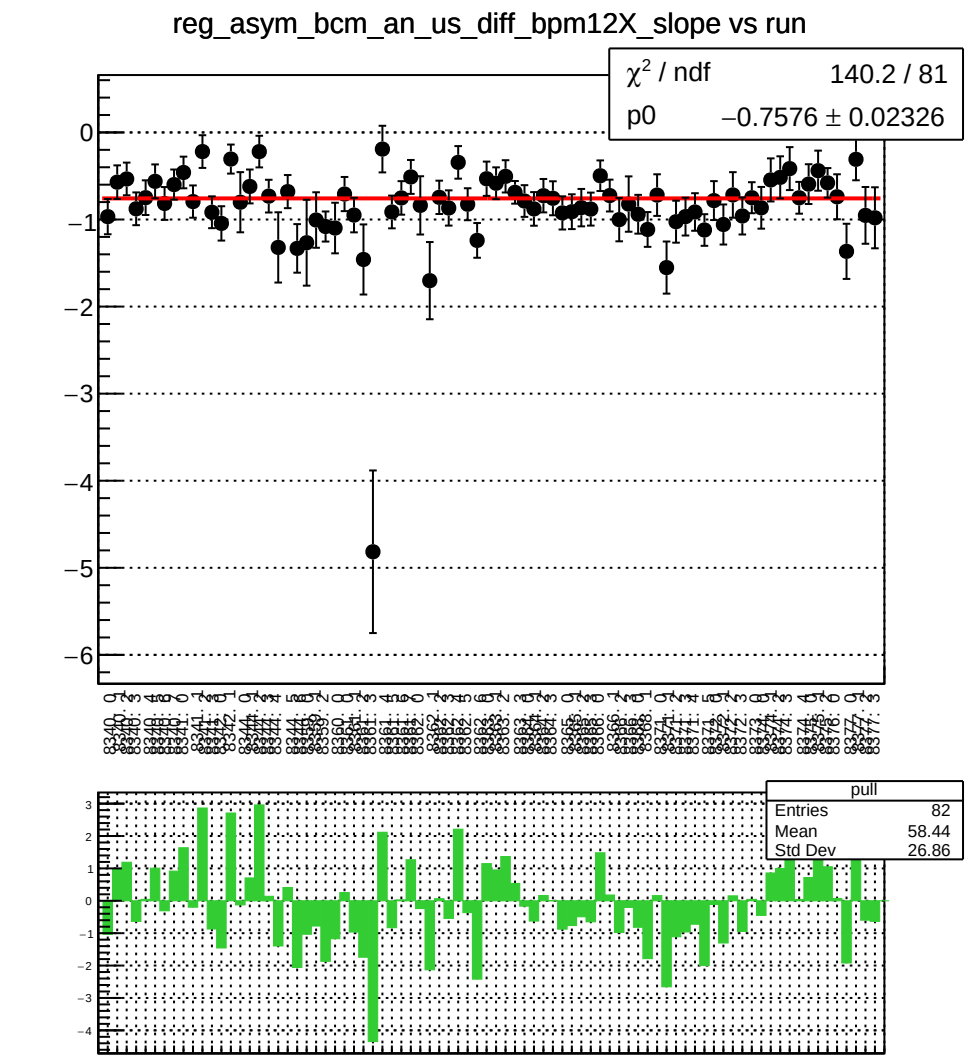

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 121 / 81
p0 0.043 ± 0.3762
pull
Entries 82
Mean 128.3
Std Dev 86.17

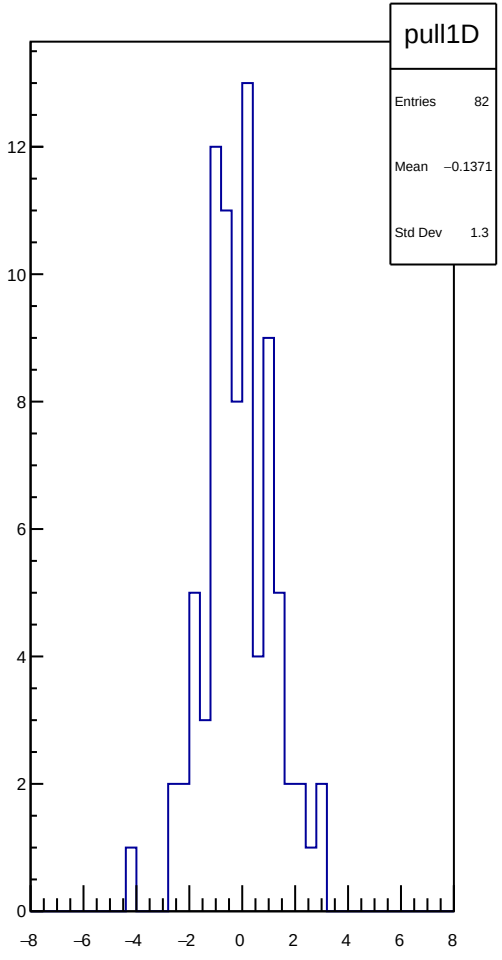

pull1D
Entries 82
Mean −0.1088
Std Dev 1.21

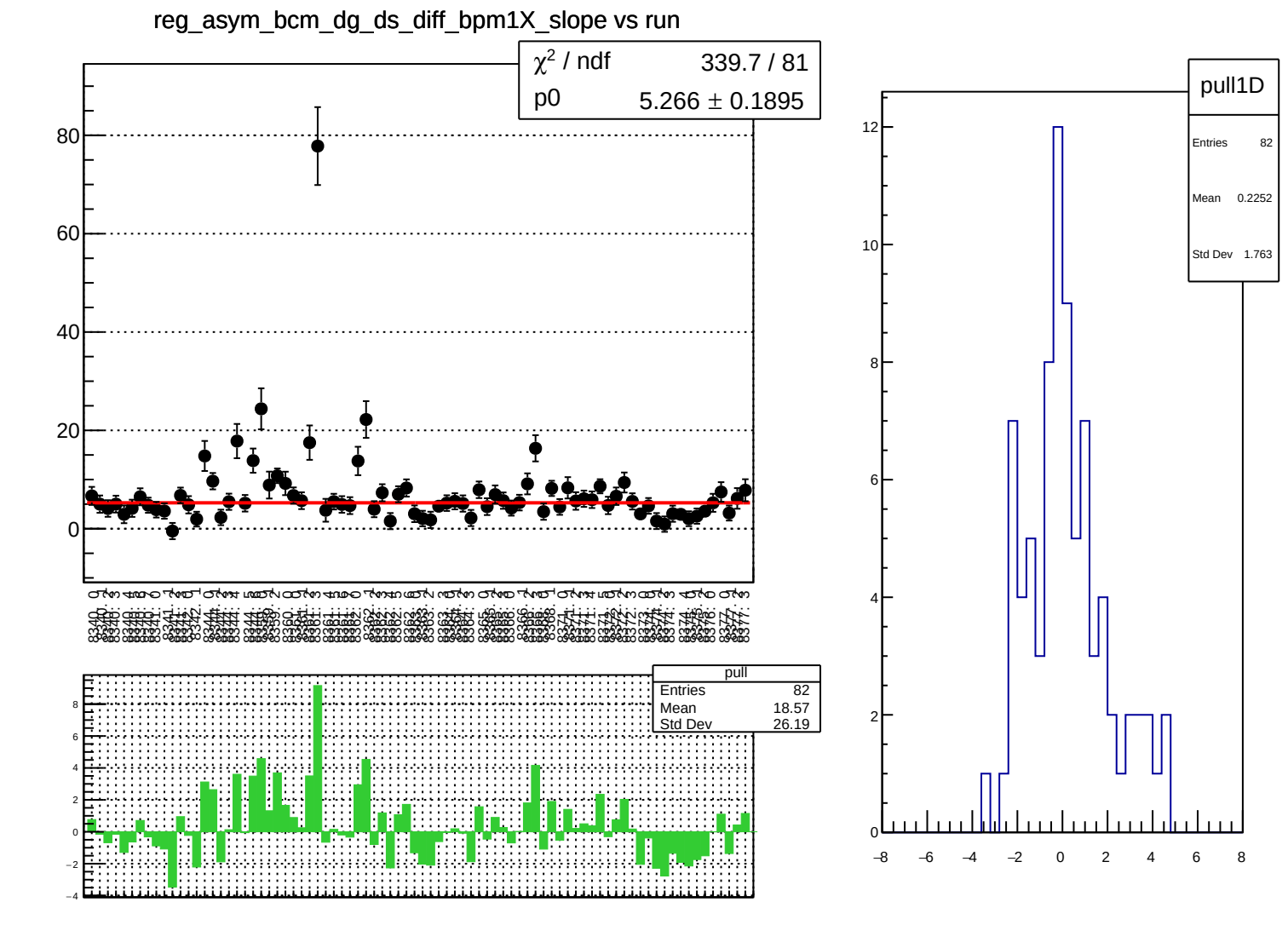

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 318.8 / 81
p0 −6.766 ± 0.2166
pull
Entries 82
Mean 22.6
Std Dev 23.27
pull1D
Entries 82
Mean −0.21
Std Dev 1.706

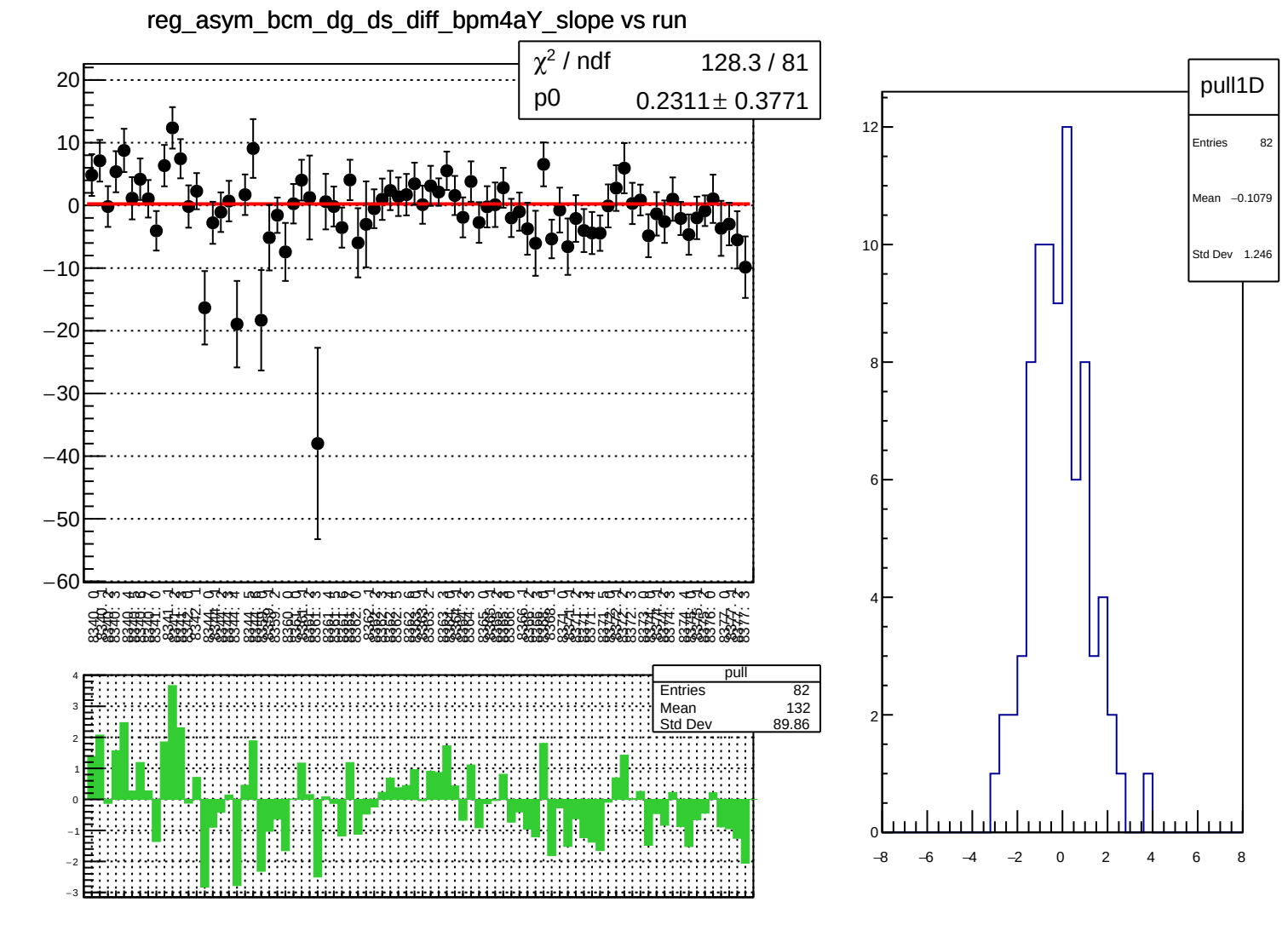

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 115.8 / 81
p0 0.1918 ± 0.3884
pull
Entries 82
Mean 117.6
Std Dev 75.34

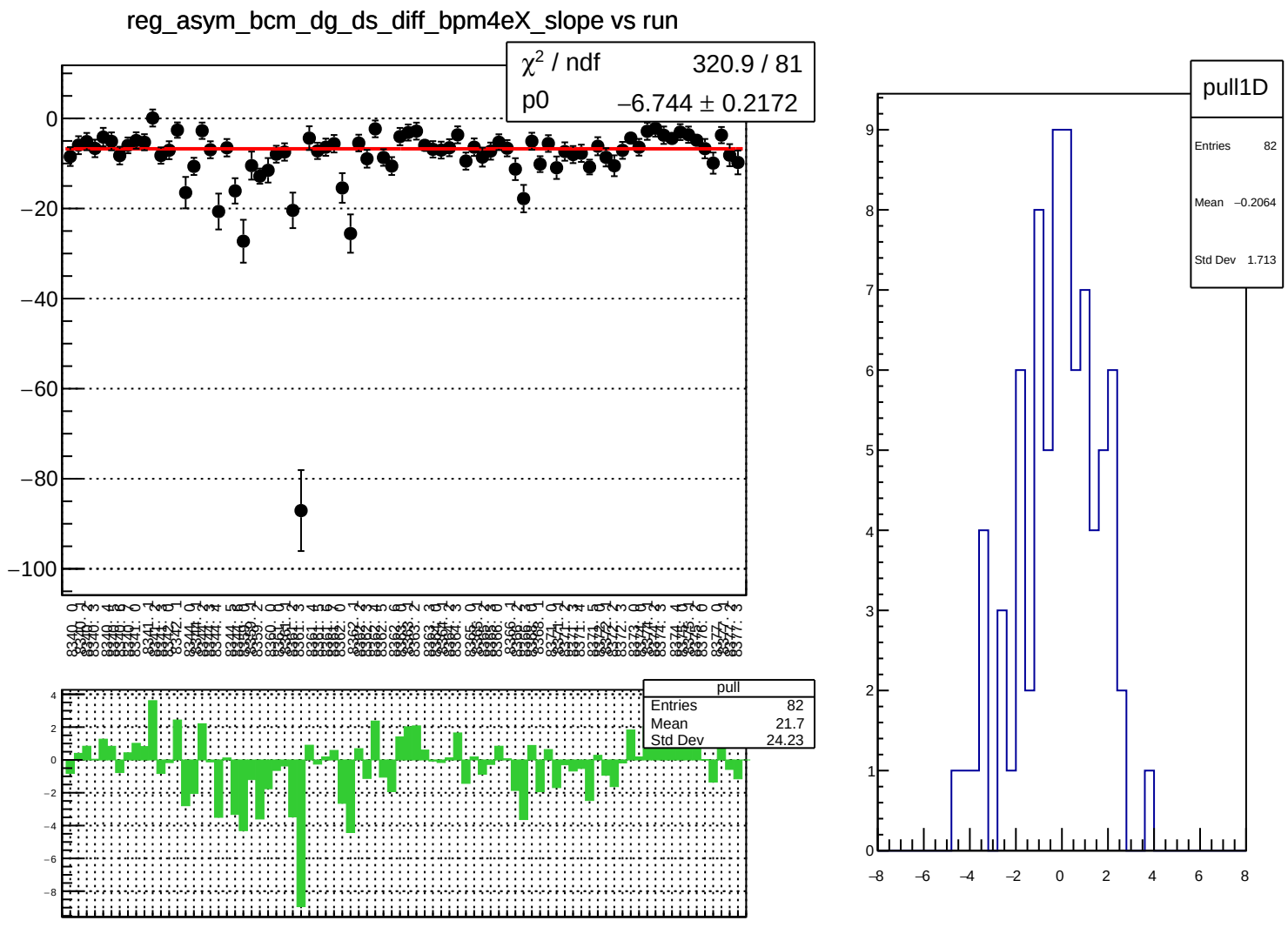

pull1D
Entries 82
Mean 0.1096
Std Dev 1.183

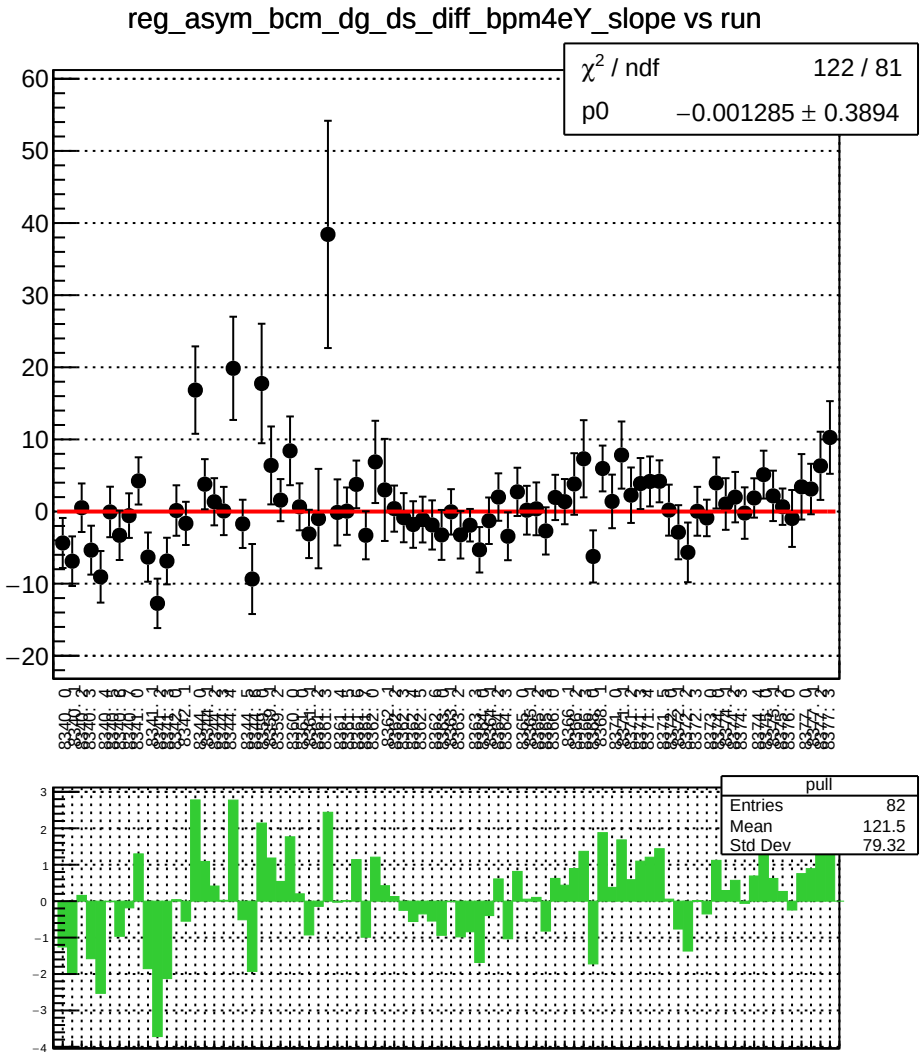

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 140.2 / 81
p0 −0.7576 ± 0.02326
pull
Entries 82
Mean 58.44
Std Dev 26.86

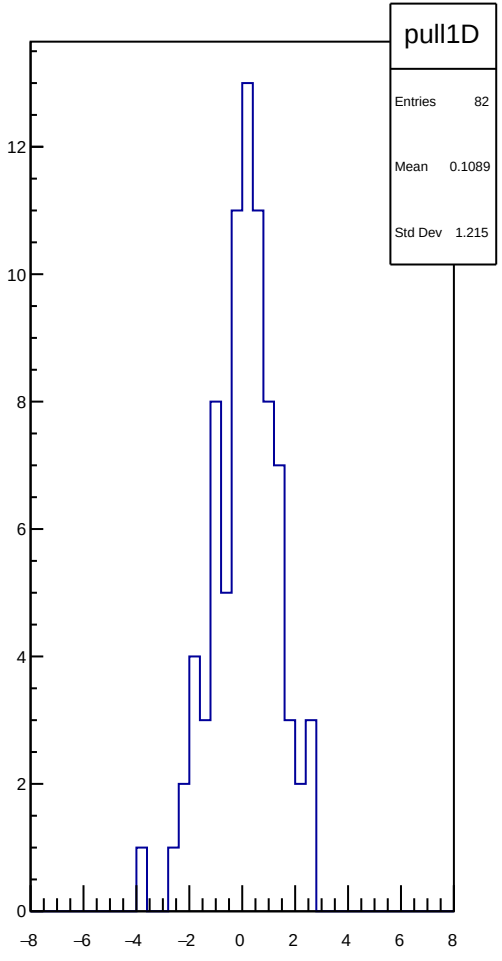

pull1D
Entries 82
Mean −0.1371
Std Dev 1.3

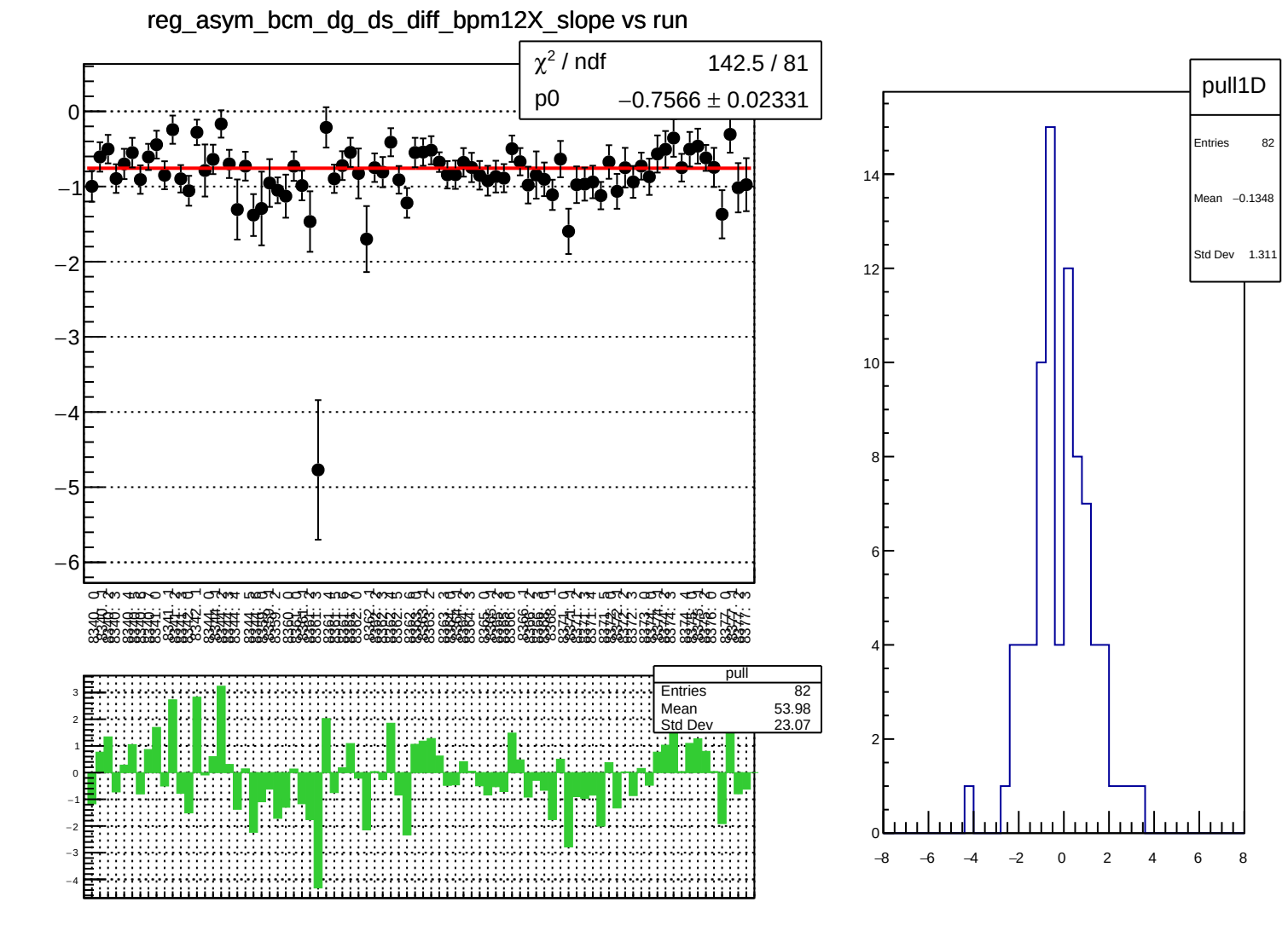

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 339.7 / 81
p0 5.266 ± 0.1895
pull
Entries 82
Mean 18.57
Std Dev 26.19
pull1D
Entries 82
Mean 0.2252
Std Dev 1.763

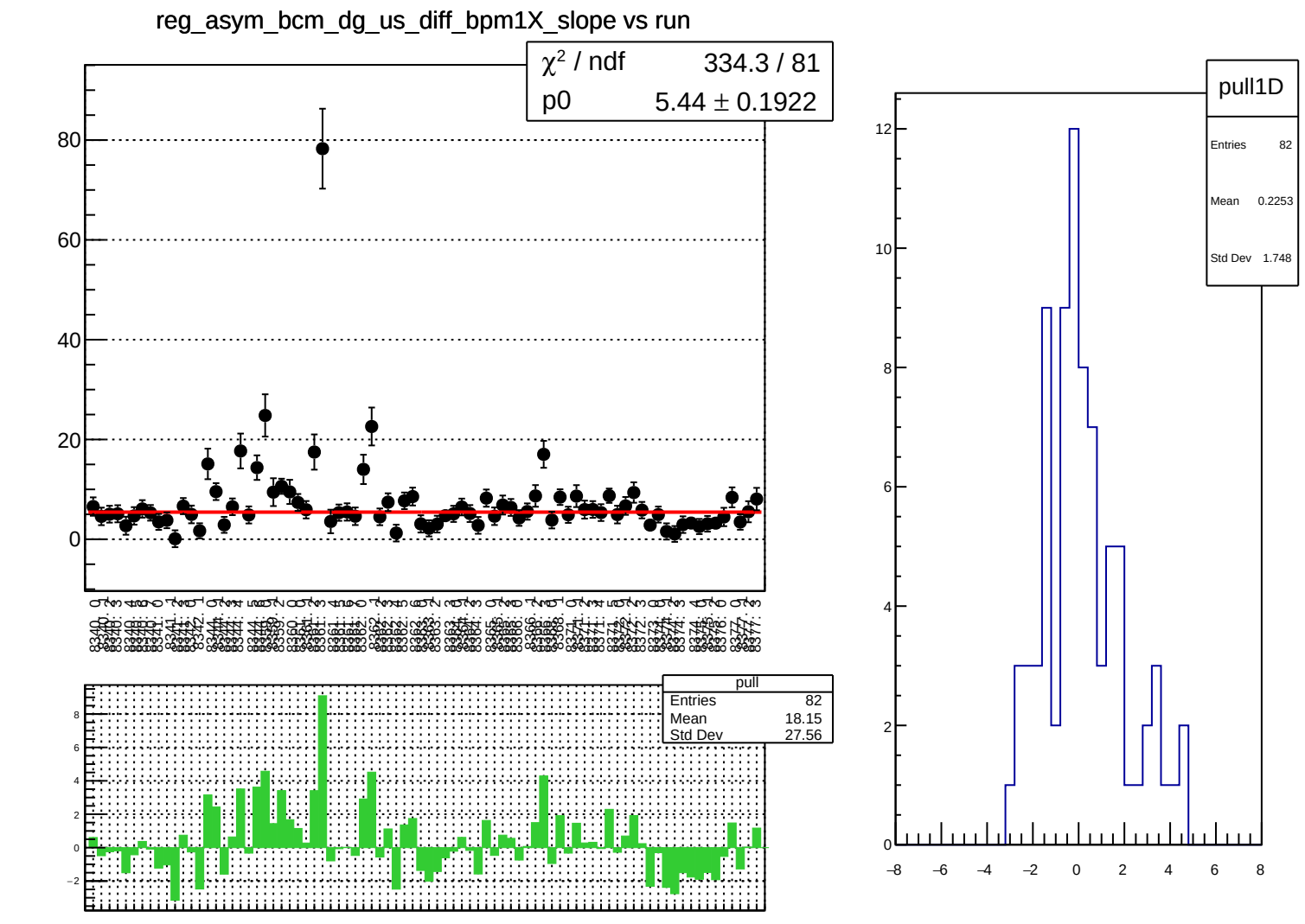

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 128.3 / 81
p0 0.2311± 0.3771
pull
Entries 82
Mean 132
Std Dev 89.86
pull1D
Entries 82
Mean −0.1079
Std Dev 1.246

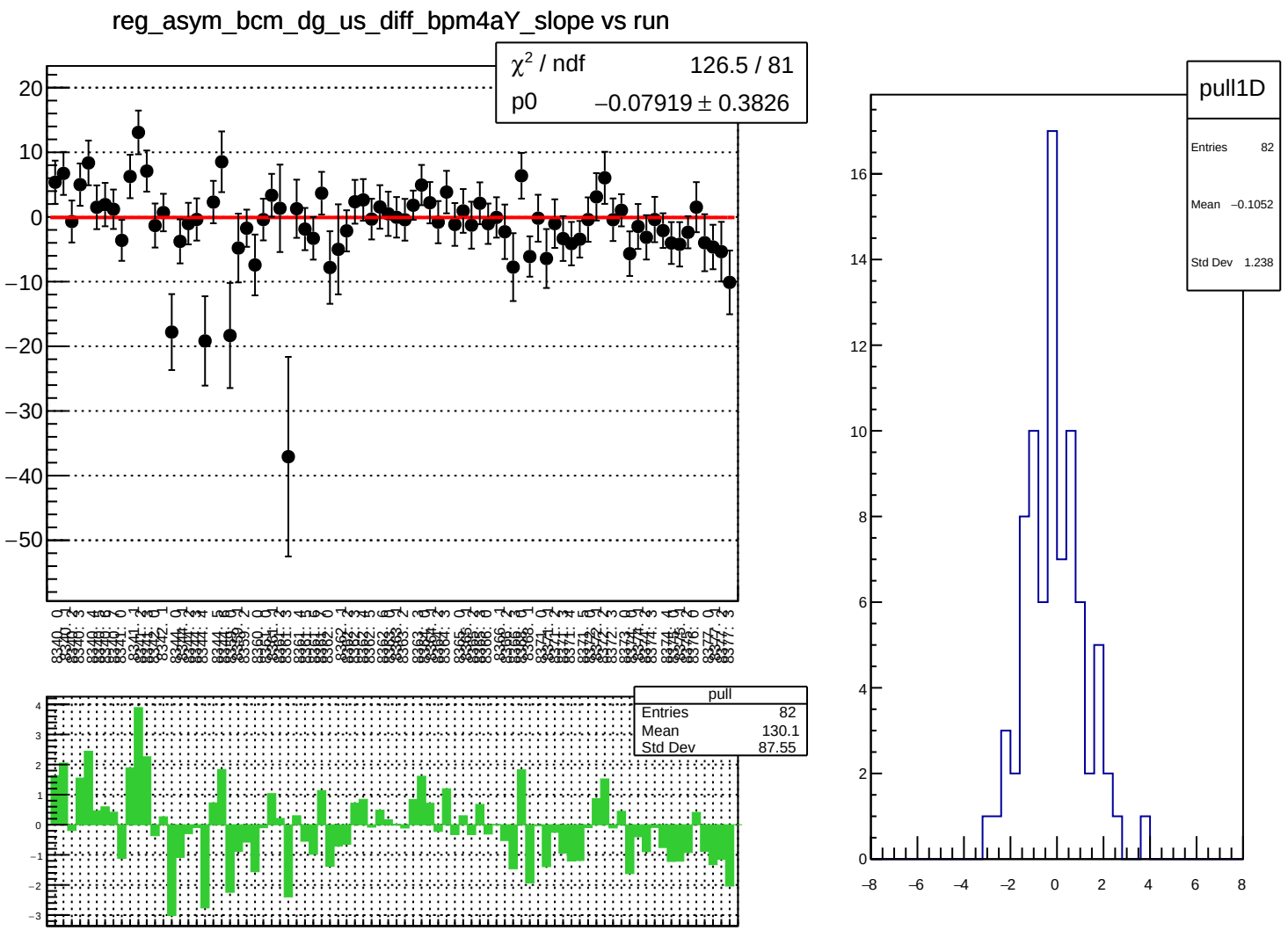

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 320.9 / 81
p0 −6.744 ± 0.2172
pull
Entries 82
Mean 21.7
Std Dev 24.23
pull1D
Entries 82
Mean −0.2064
Std Dev 1.713

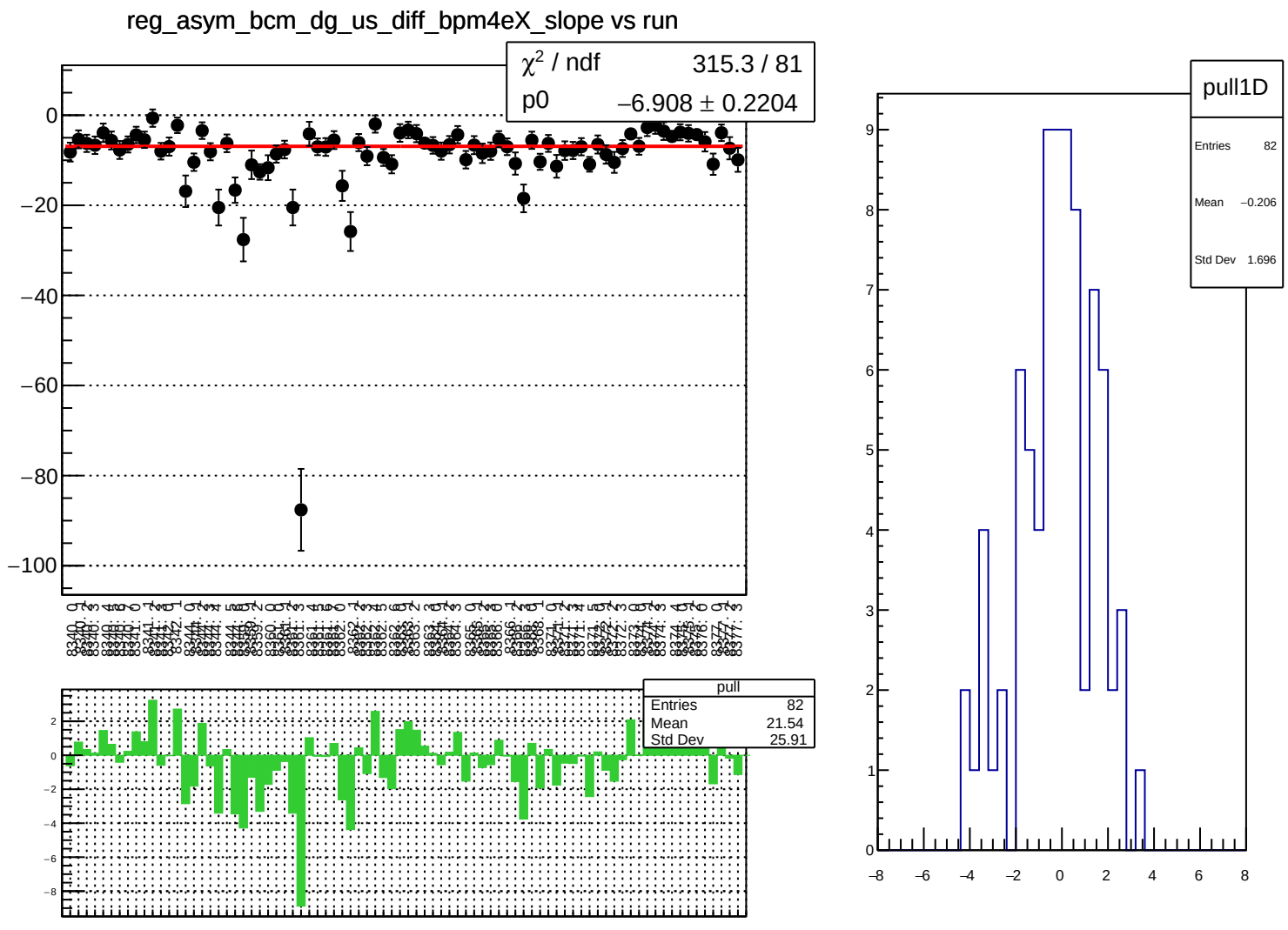

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 122 / 81
p0 −0.001285 ± 0.3894
pull
Entries 82
Mean 121.5
Std Dev 79.32

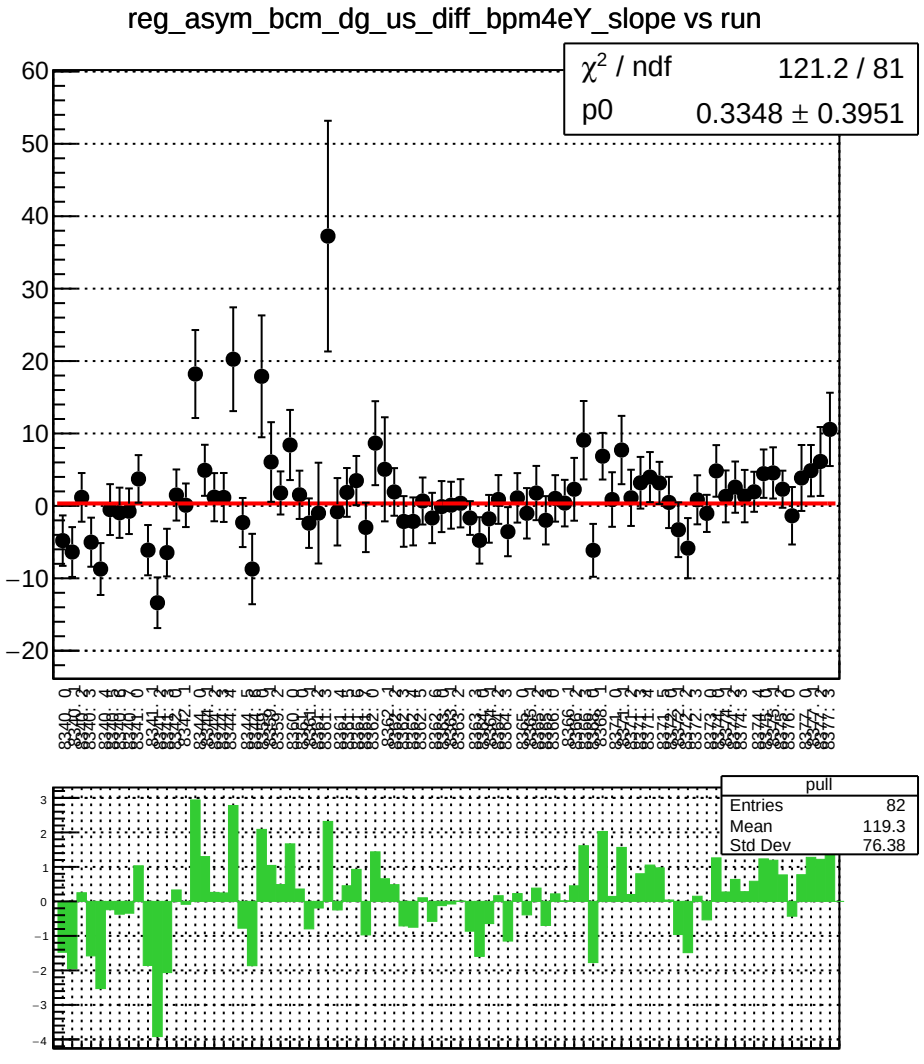

pull1D
Entries 82
Mean 0.1089
Std Dev 1.215

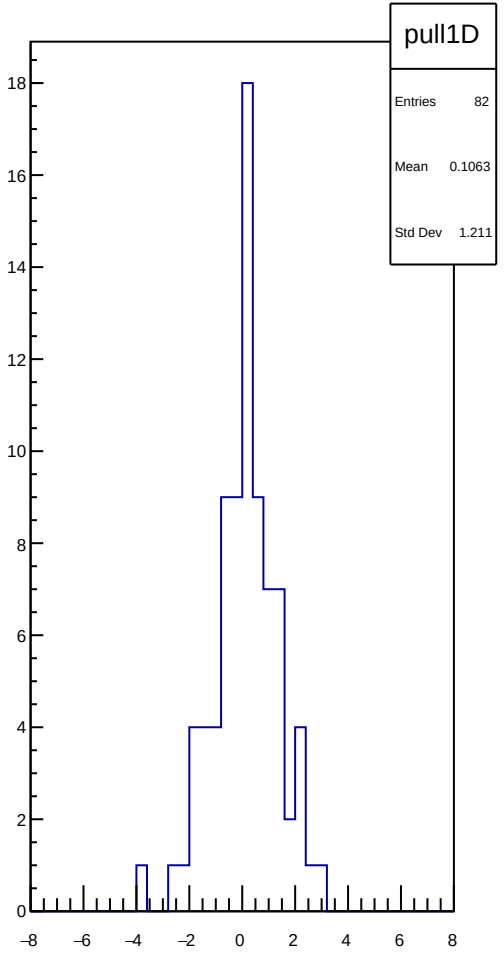

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 142.5 / 81
p0 −0.7566 ± 0.02331
pull
Entries 82
Mean 53.98
Std Dev 23.07
pull1D
Entries 82
Mean −0.1348
Std Dev 1.311

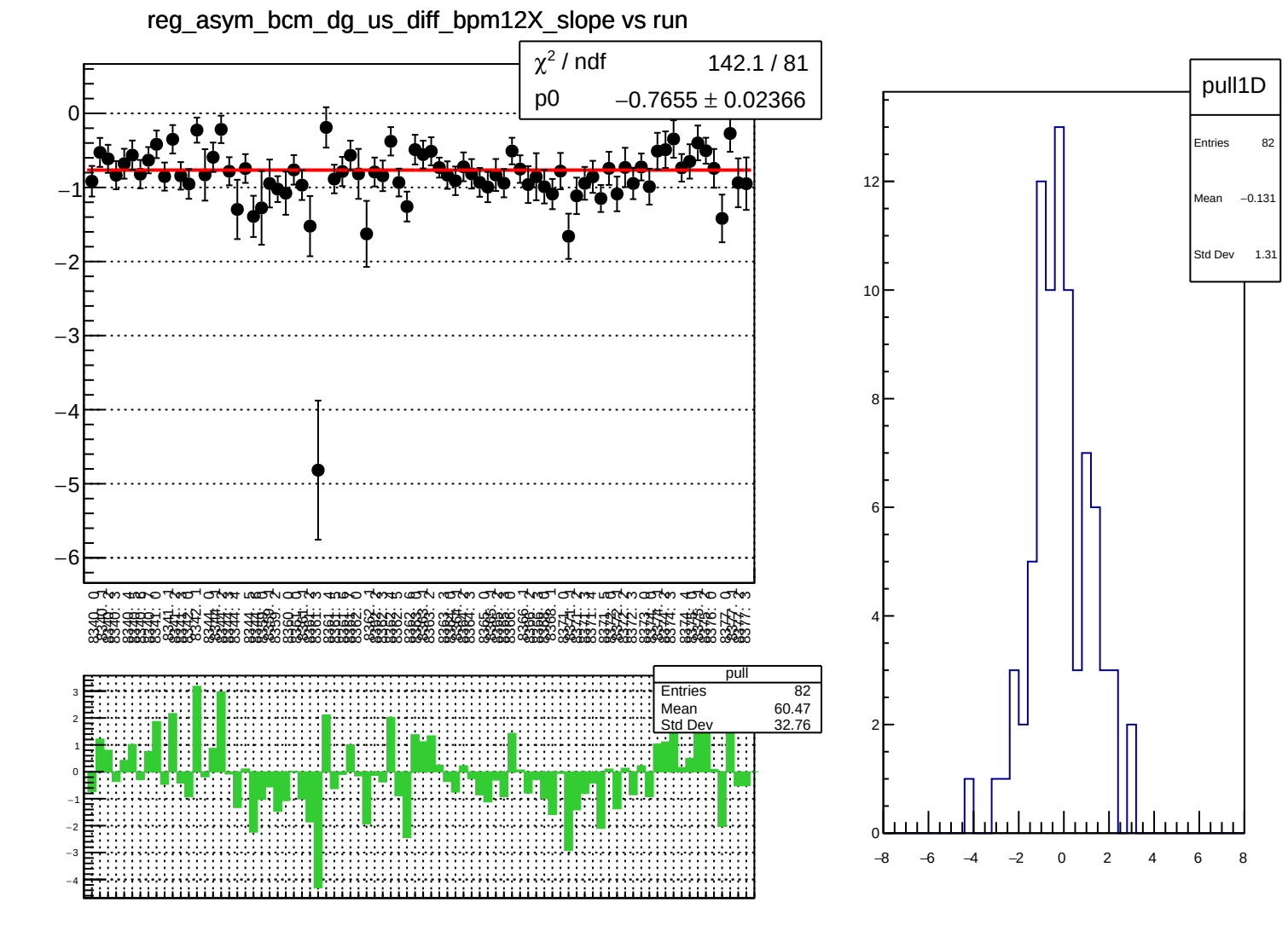

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 334.3 / 81
p0 5.44 ± 0.1922
pull
Entries 82
Mean 18.15
Std Dev 27.56
pull1D
Entries 82
Mean 0.2253
Std Dev 1.748

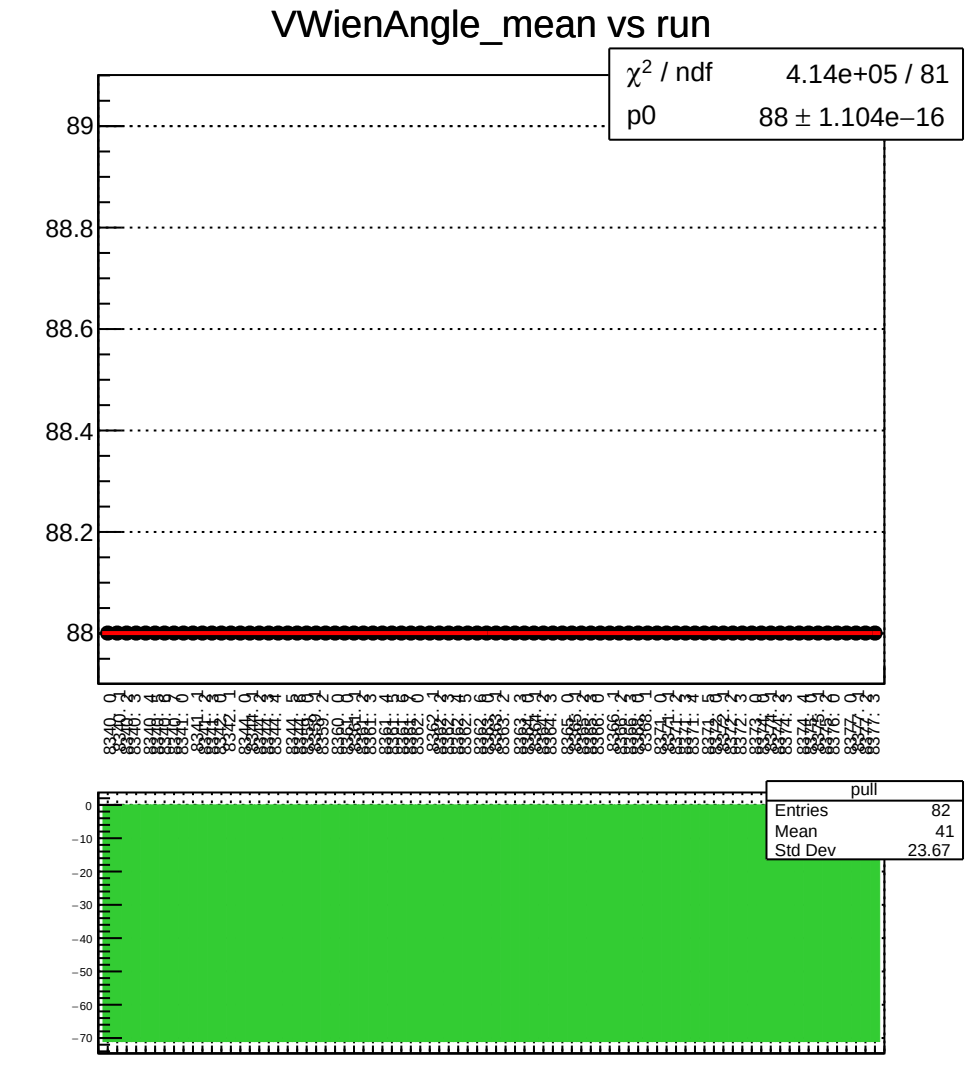

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 126.5 / 81
p0 −0.07919 ± 0.3826
pull
Entries 82
Mean 130.1
Std Dev 87.55
pull1D
Entries 82
Mean −0.1052
Std Dev 1.238

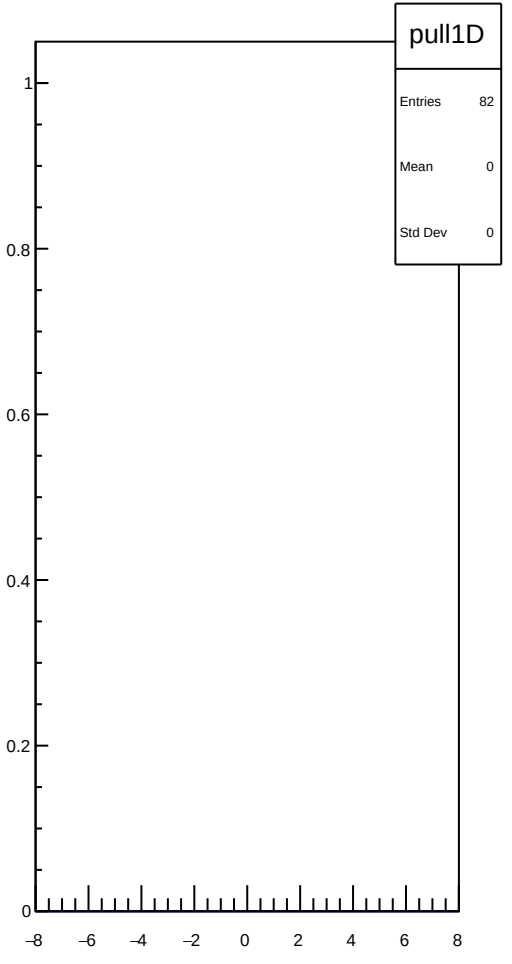

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 315.3 / 81
p0 −6.908 ± 0.2204
pull
Entries 82
Mean 21.54
Std Dev 25.91
pull1D
Entries 82
Mean −0.206
Std Dev 1.696

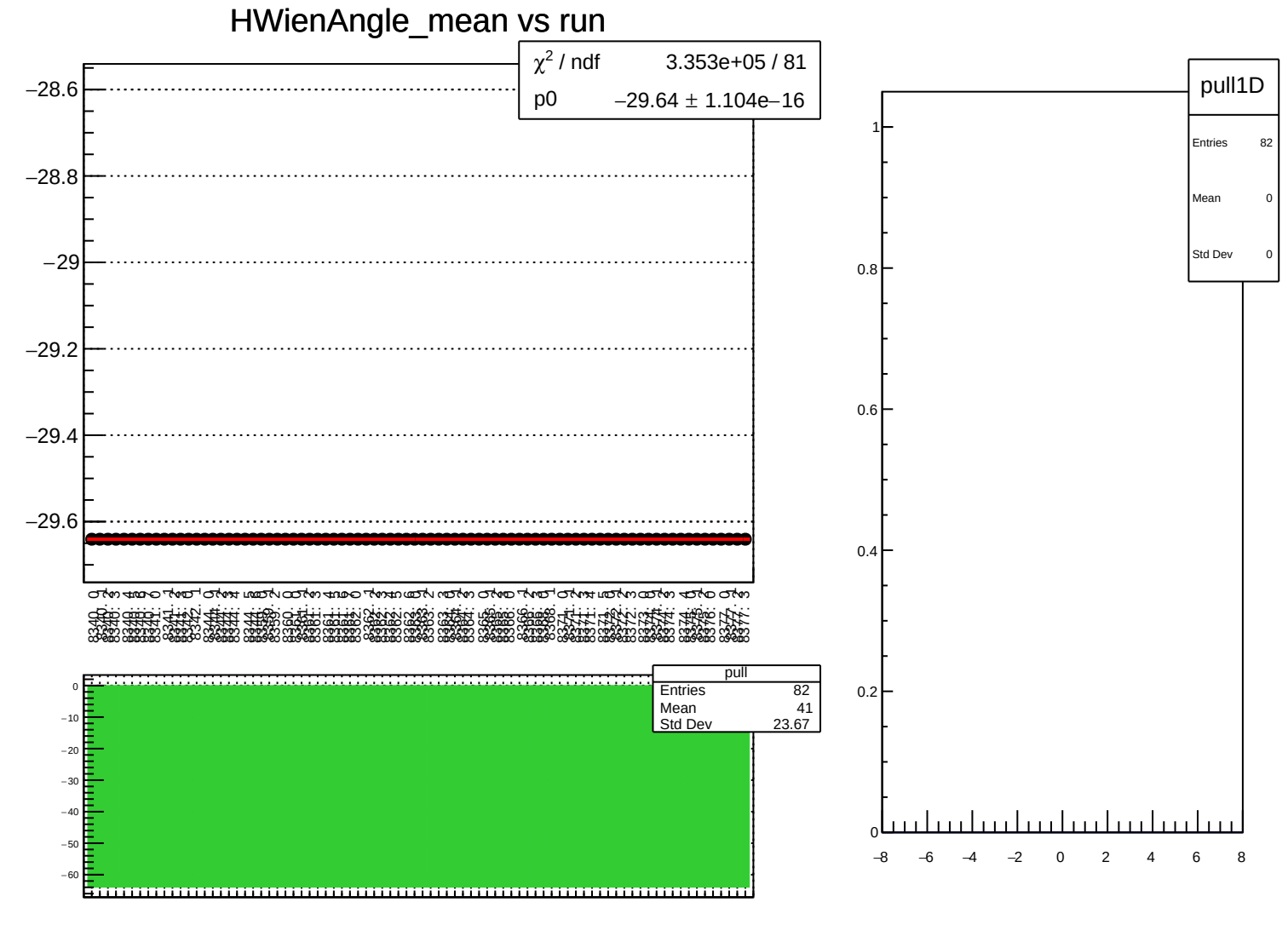

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 121.2 / 81
p0 0.3348 ± 0.3951
pull
Entries 82
Mean 119.3
Std Dev 76.38

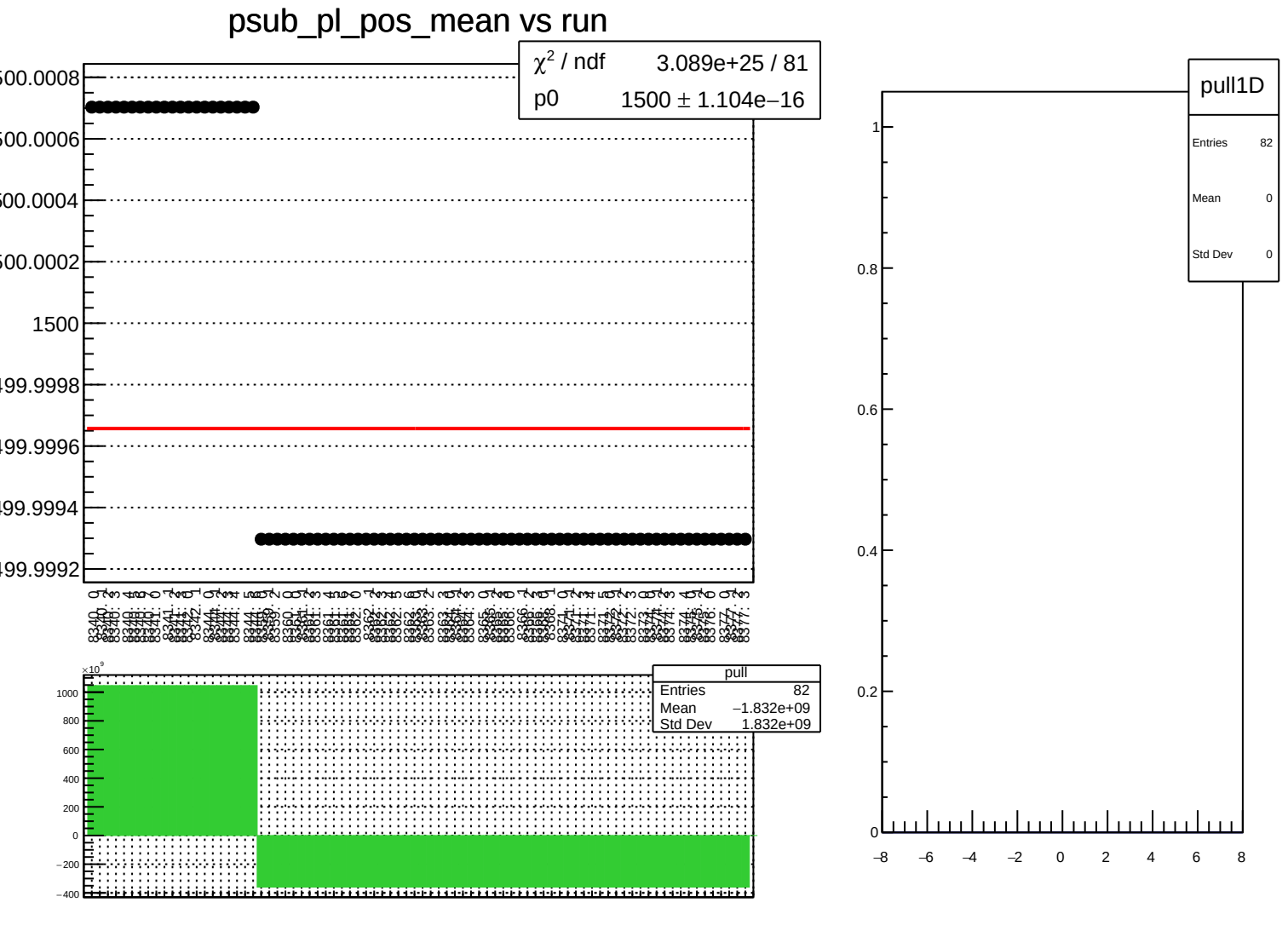

pull1D
Entries 82
Mean 0.1063
Std Dev 1.211

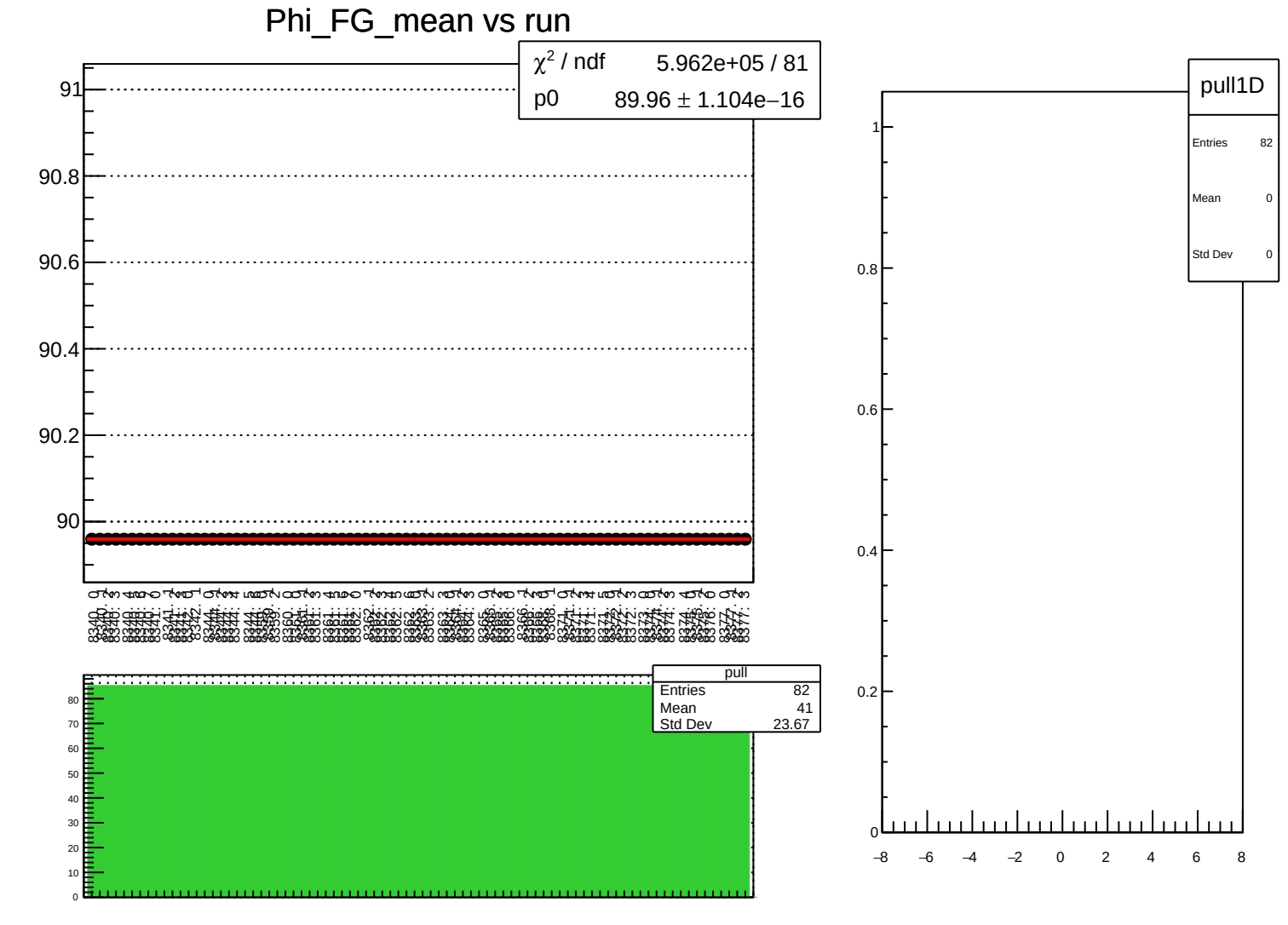

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 142.1 / 81
p0 −0.7655 ± 0.02366
pull
Entries 82
Mean 60.47
Std Dev 32.76
pull1D
Entries 82
Mean −0.131
Std Dev 1.31

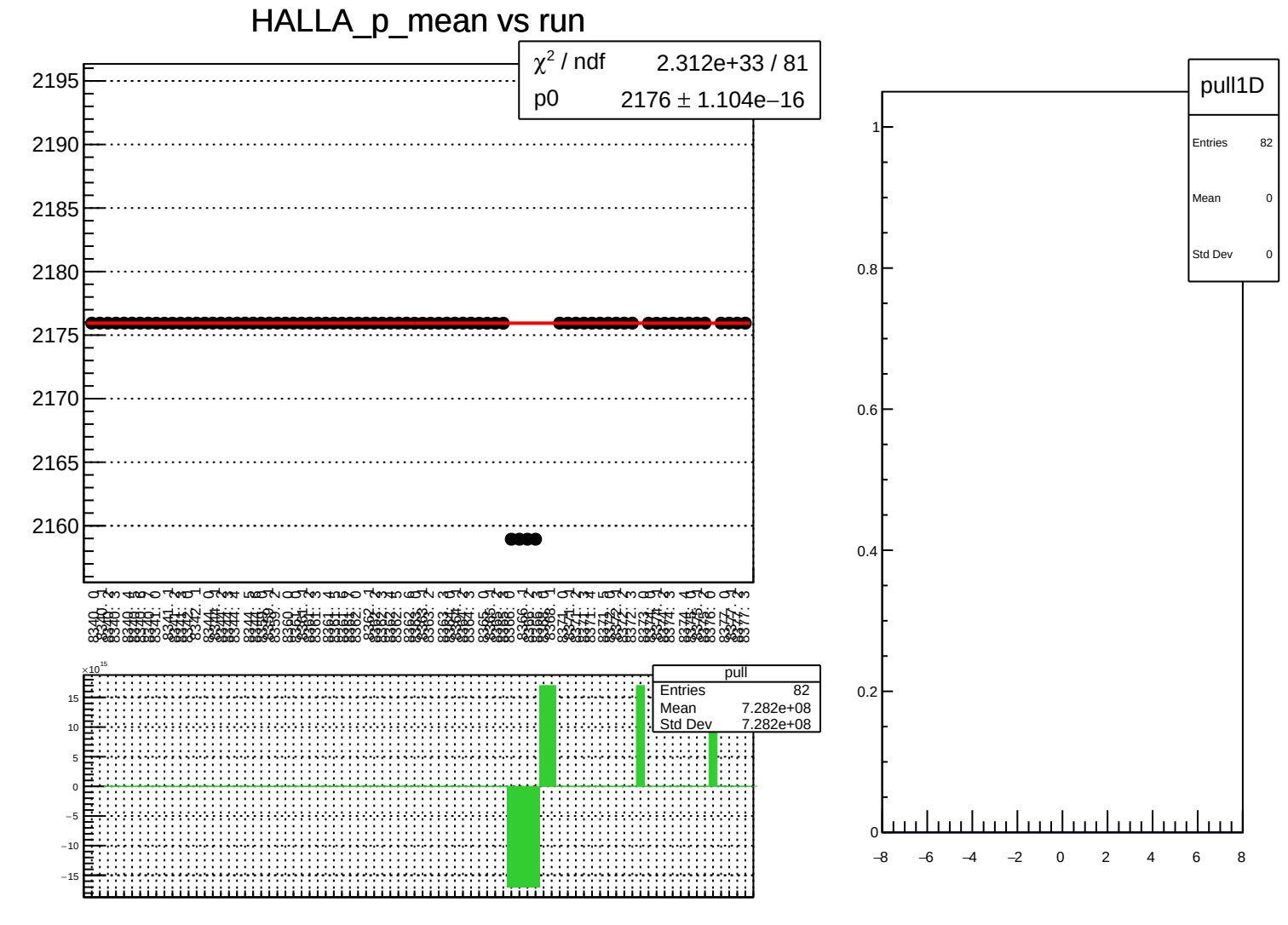

VWienAngle_mean vs run
χ² / ndf 4.14e+05 / 81
p0 88 ± 1.104e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 82
Mean 41
Std Dev 23.67
0
−10
−20
−30
−40
−50
−60
−70

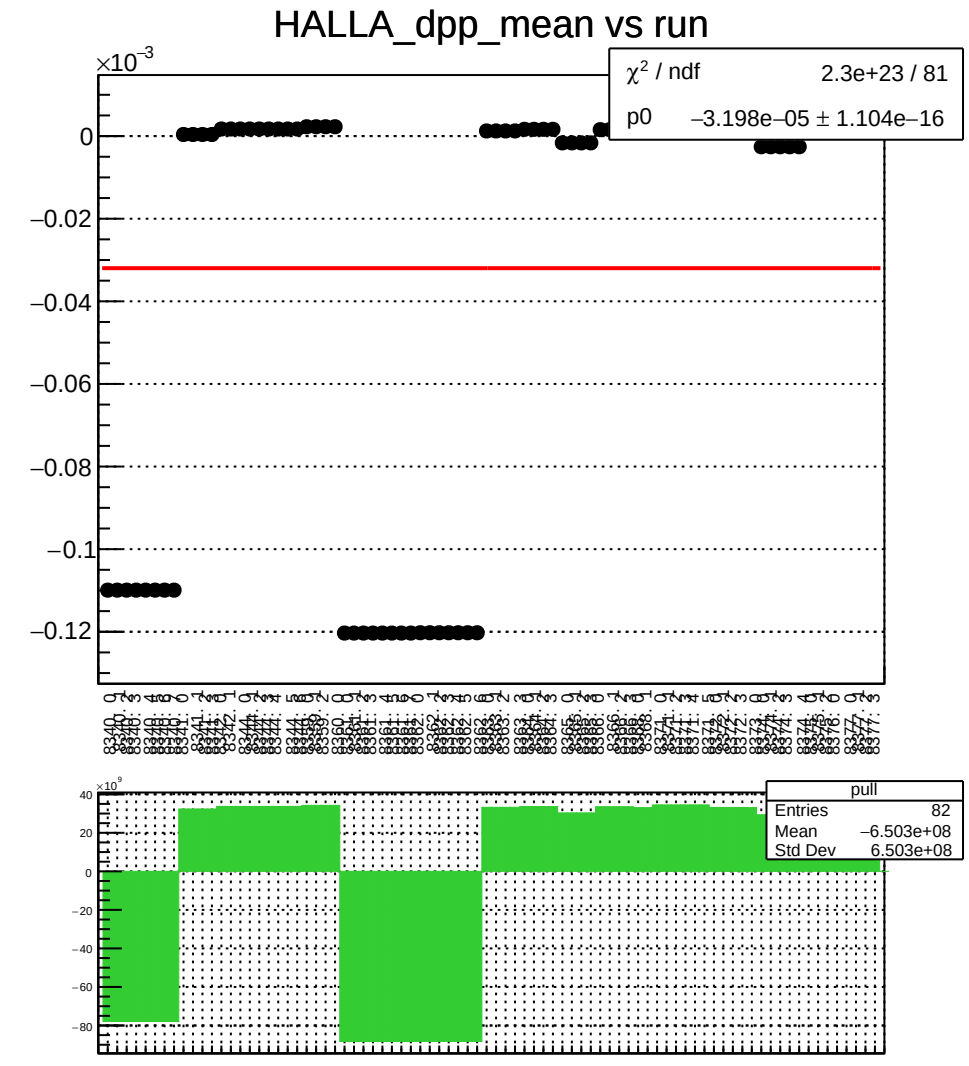

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

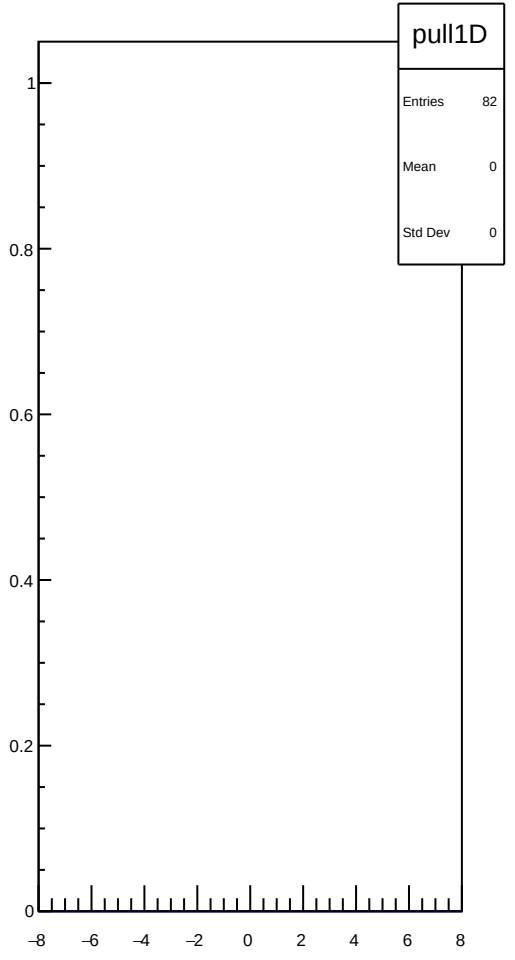

HWienAngle_mean vs run
χ² / ndf 3.353e+05 / 81
p0 −29.64 ± 1.104e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 82
Mean 41
Std Dev 23.67
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

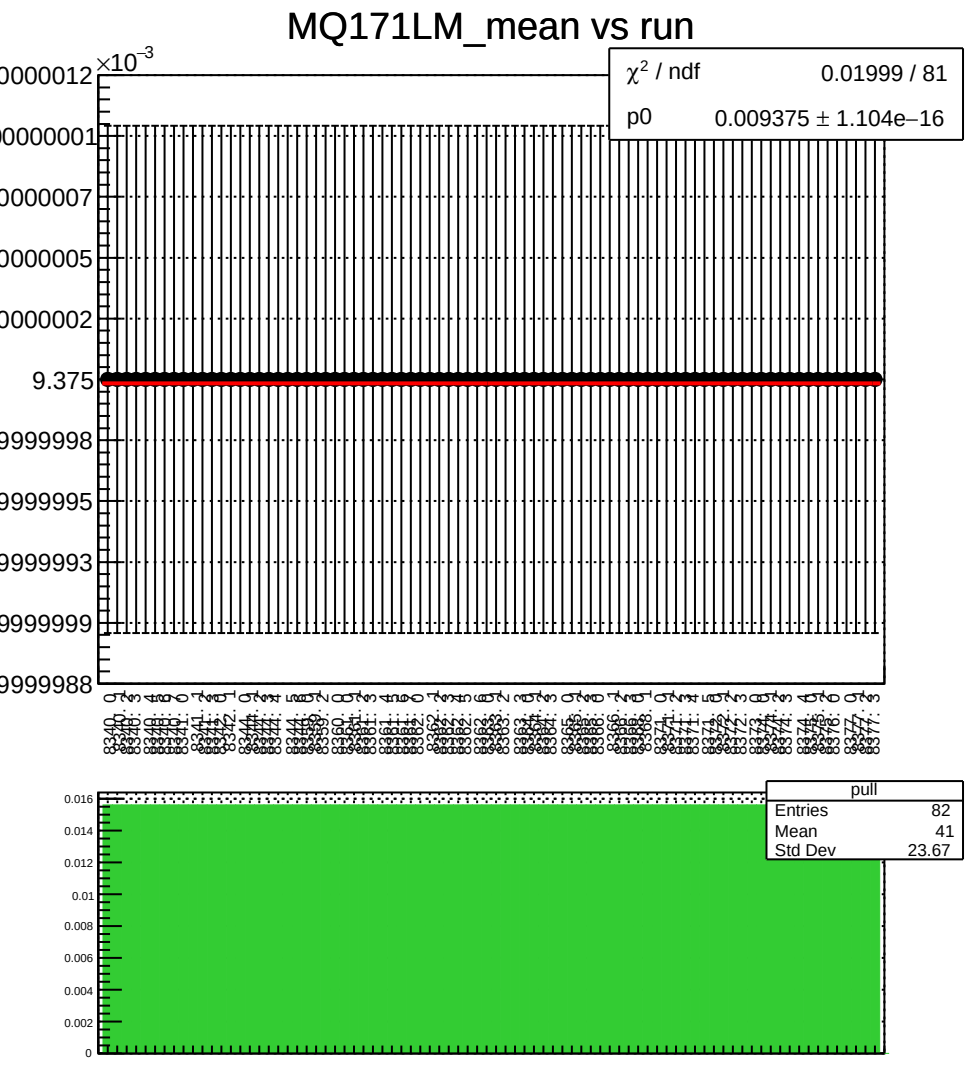

psub_pl_pos_mean vs run
χ² / ndf 3.089e+25 / 81
p0 1500 ± 1.104e−16
1500.0008
1500.0006
1500.0004
1500.0002
1500
1499.9998
1499.9996
1499.9994
1499.9992
pull
Entries 82
Mean −1.832e+09
Std Dev 1.832e+09
×10⁹
1000
800
600
400
200
0
−200
−400
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

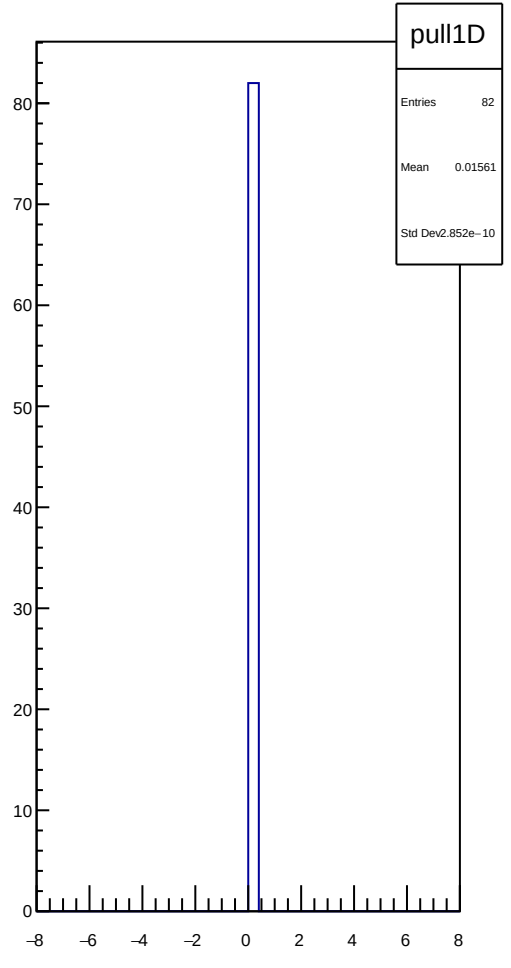

Phi_FG_mean vs run
χ² / ndf 5.962e+05 / 81
p0 89.96 ± 1.104e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 82
Mean 41
Std Dev 23.67
80
70
60
50
40
30
20
10
0
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

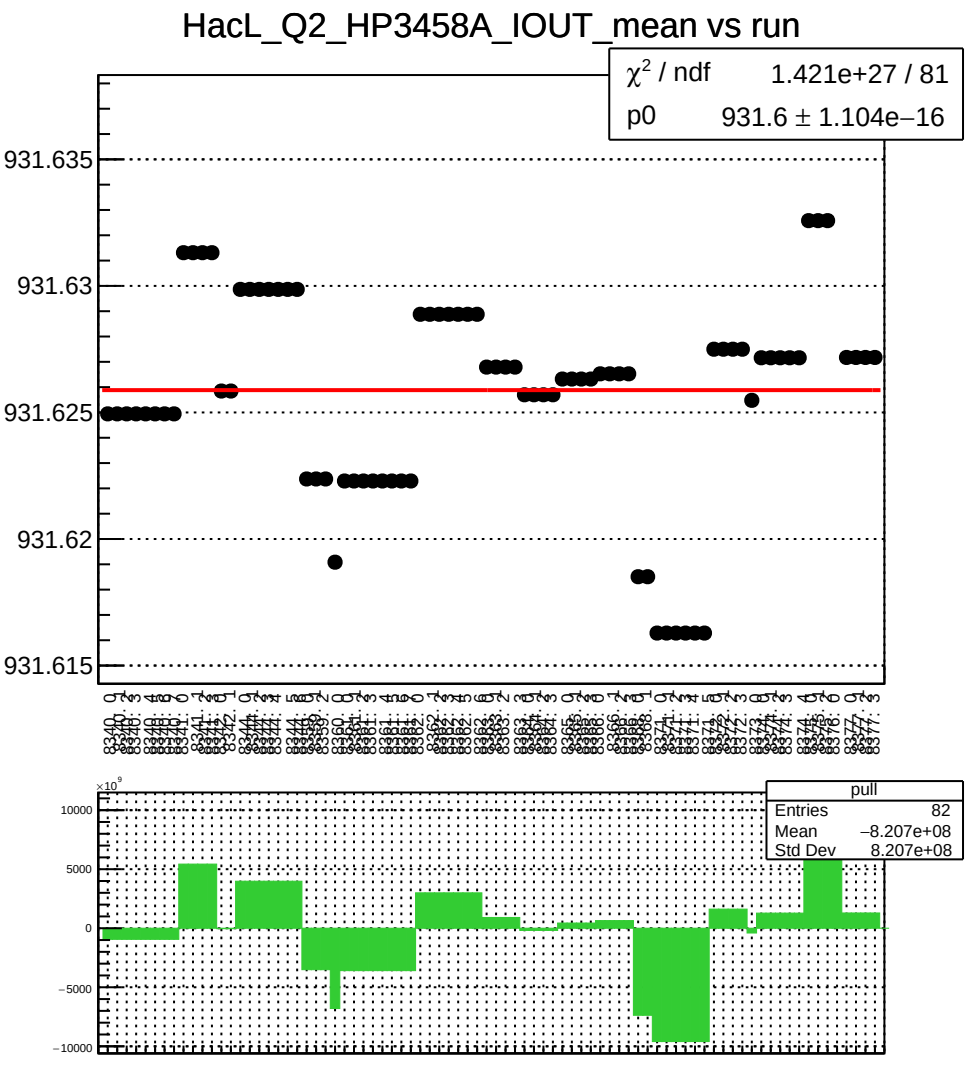

HALLA_p_mean vs run
χ² / ndf 2.312e+33 / 81
p0 2176 ± 1.104e−16
2195
2190
2185
2180
2175
2170
2165
2160
pull
Entries 82
Mean 7.282e+08
Std Dev 7.282e+08
×10¹⁵
15
10
5
0
−5
−10
−15
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

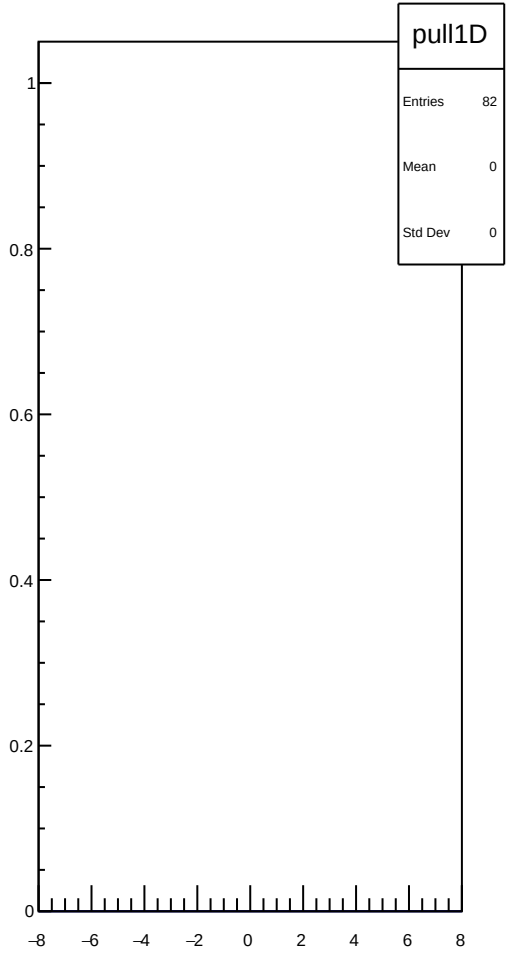

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.3e+23 / 81
p0 −3.198e−05 ± 1.104e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
pull
Entries 82
Mean −6.503e+08
Std Dev 6.503e+08
40
20
0
−20
−40
−60
−80

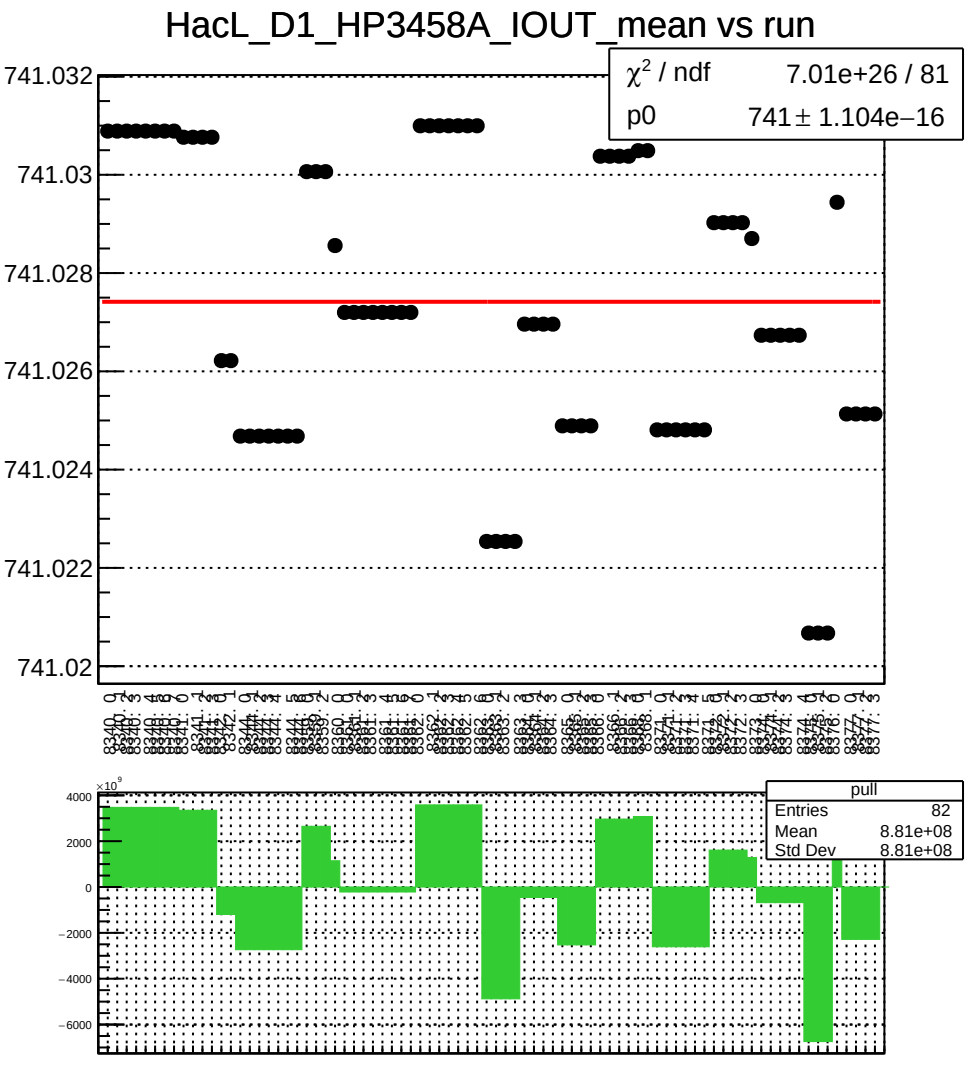

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

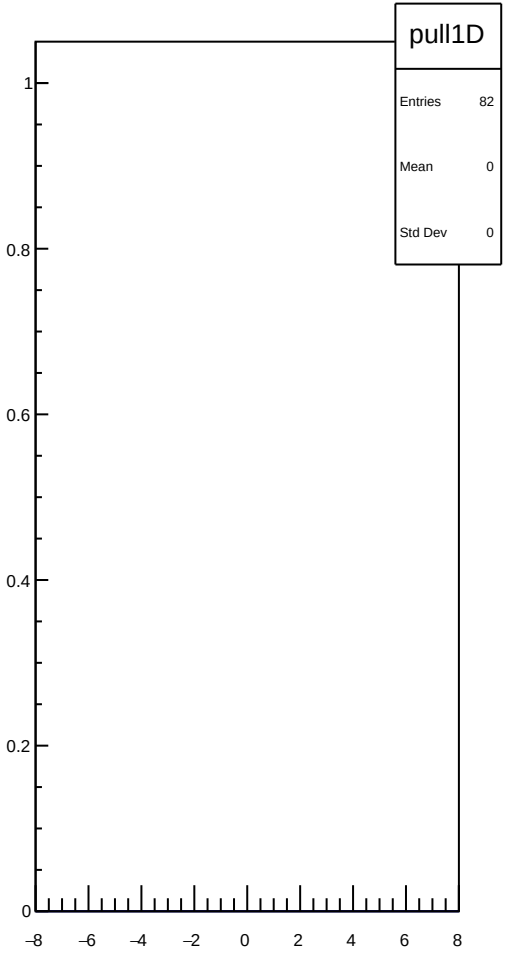

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.01999 / 81
p0 0.009375 ± 1.104e−16
9.375
pull
Entries 82
Mean 41
Std Dev 23.67

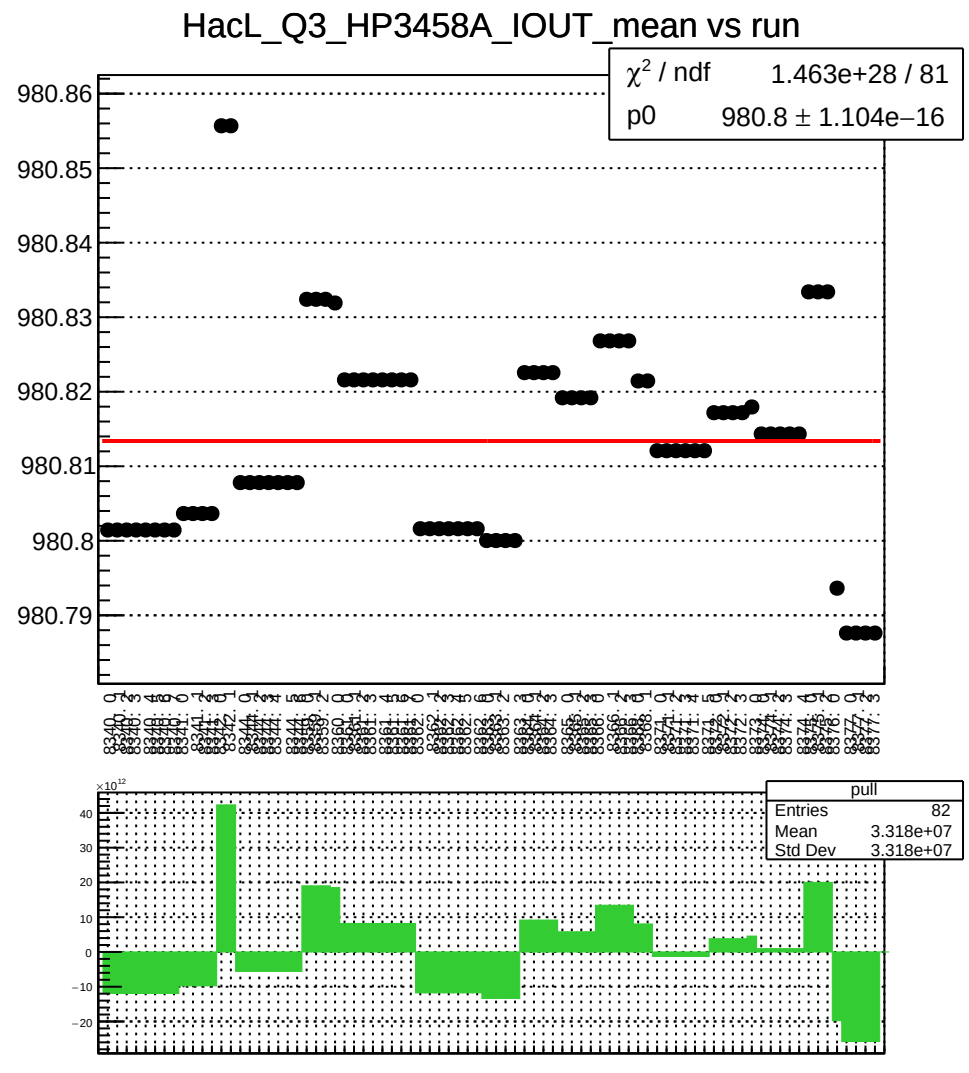

pull1D
Entries 82
Mean 0.01561
Std Dev 2.852e−10

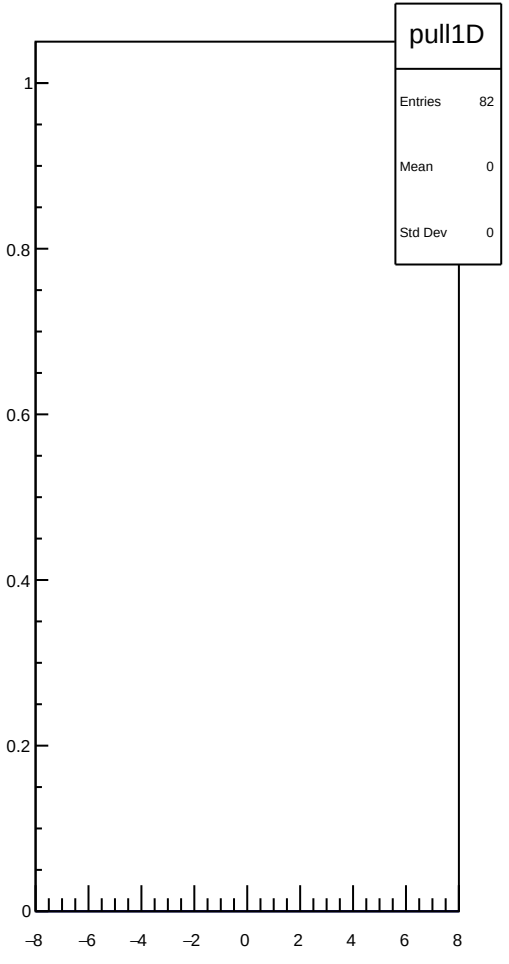

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.421e+27 / 81
p0 931.6 ± 1.104e−16
931.635
931.63
931.625
931.62
931.615
pull
Entries 82
Mean −8.207e+08
Std Dev 8.207e+08
×10⁹
10000
5000
0
−5000
−10000

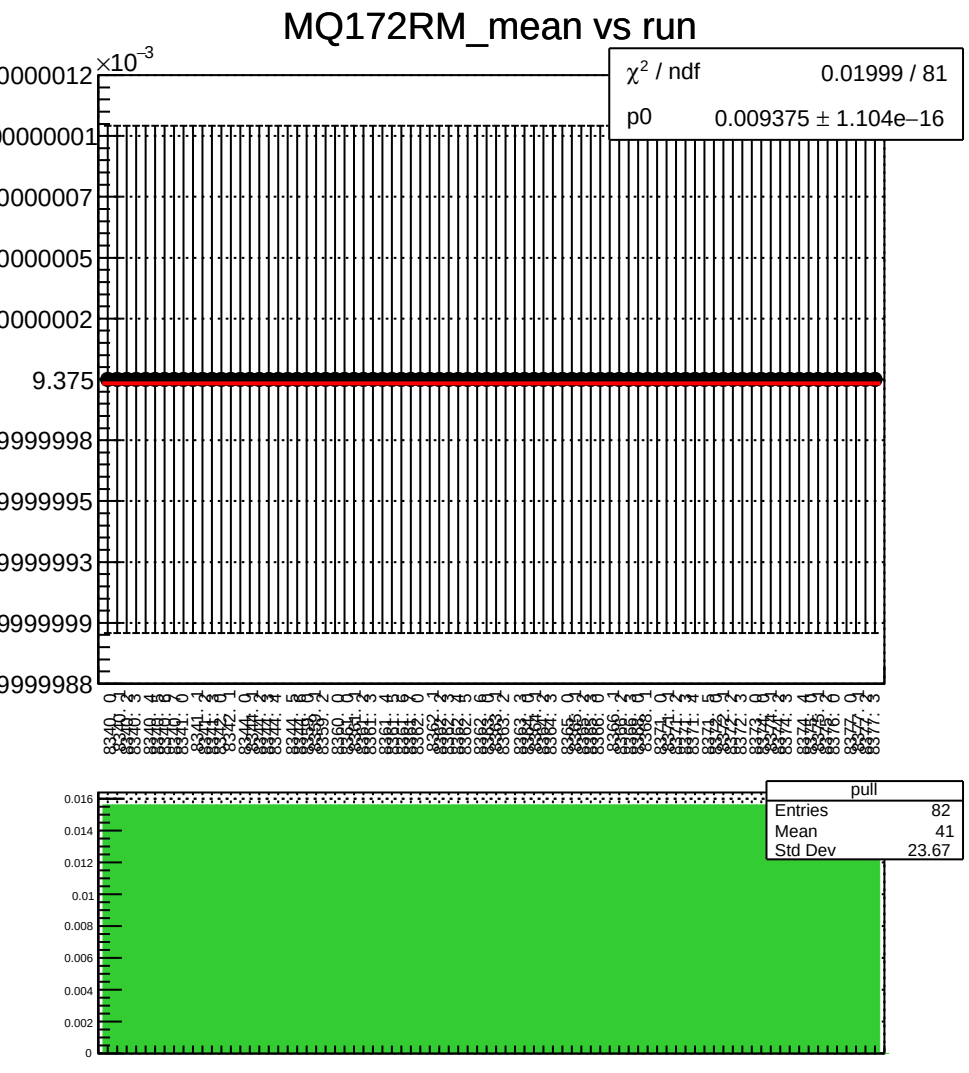

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

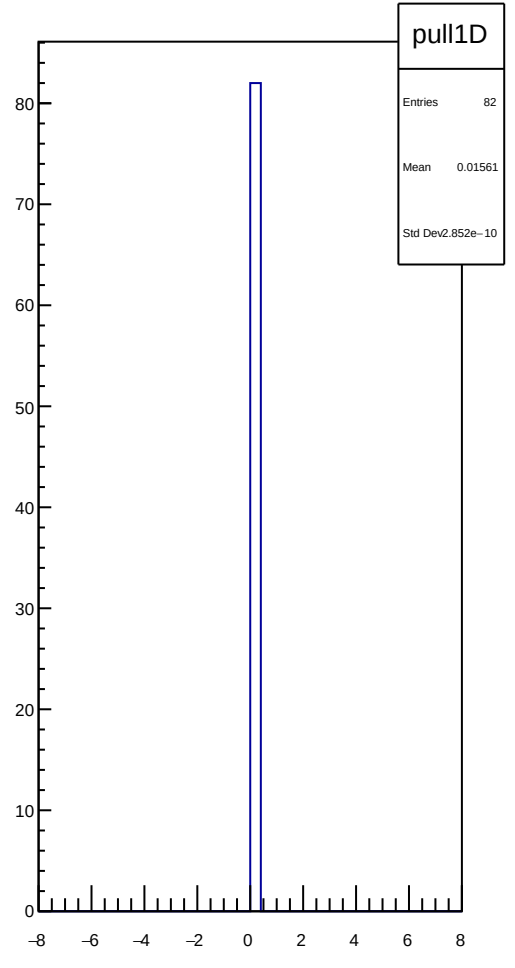

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 7.01e+26 / 81
p0 741 ± 1.104e−16
741.032
741.03
741.028
741.026
741.024
741.022
741.02
×10⁹
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean 8.81e+08
Std Dev 8.81e+08

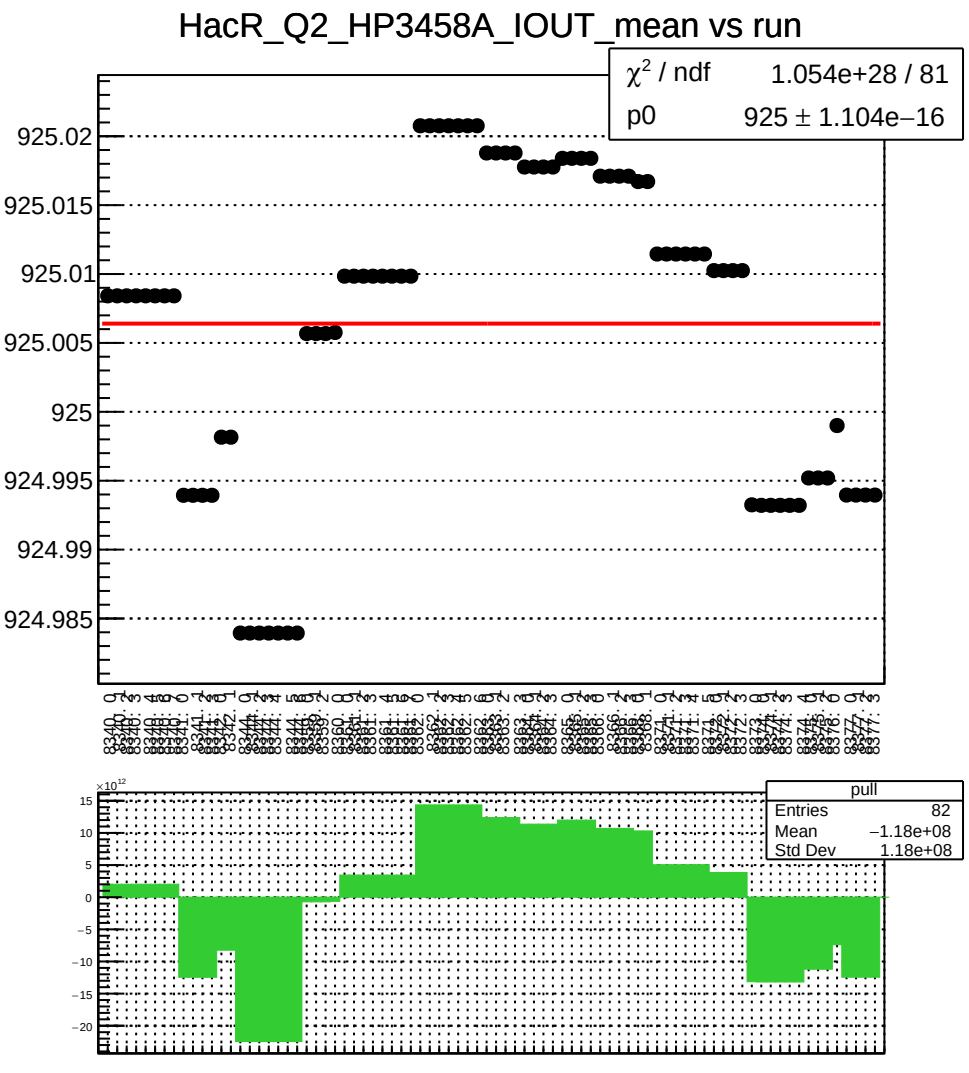

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

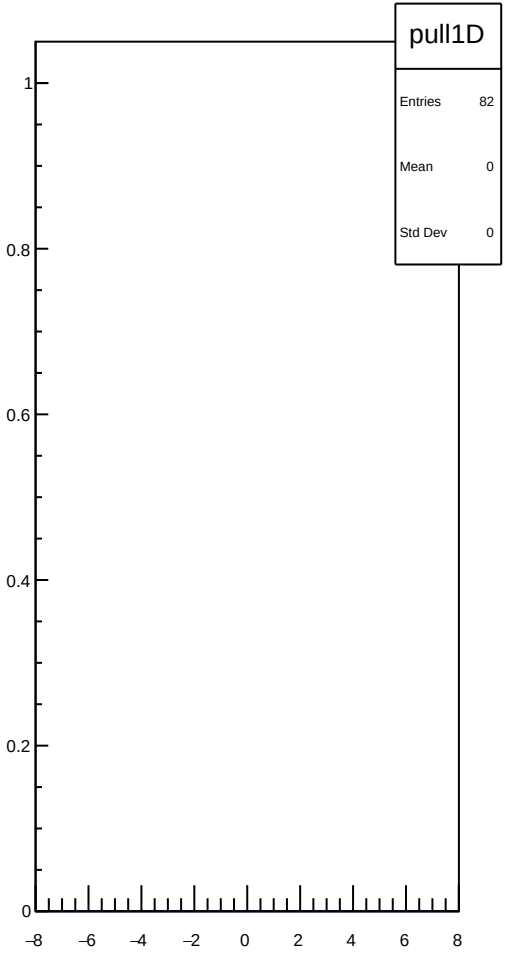

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.463e+28 / 81
p0 980.8 ± 1.104e−16
980.86
980.85
980.84
980.83
980.82
980.81
980.8
980.79
pull
Entries 82
Mean 3.318e+07
Std Dev 3.318e+07
×10¹²
40
30
20
10
0
−10
−20

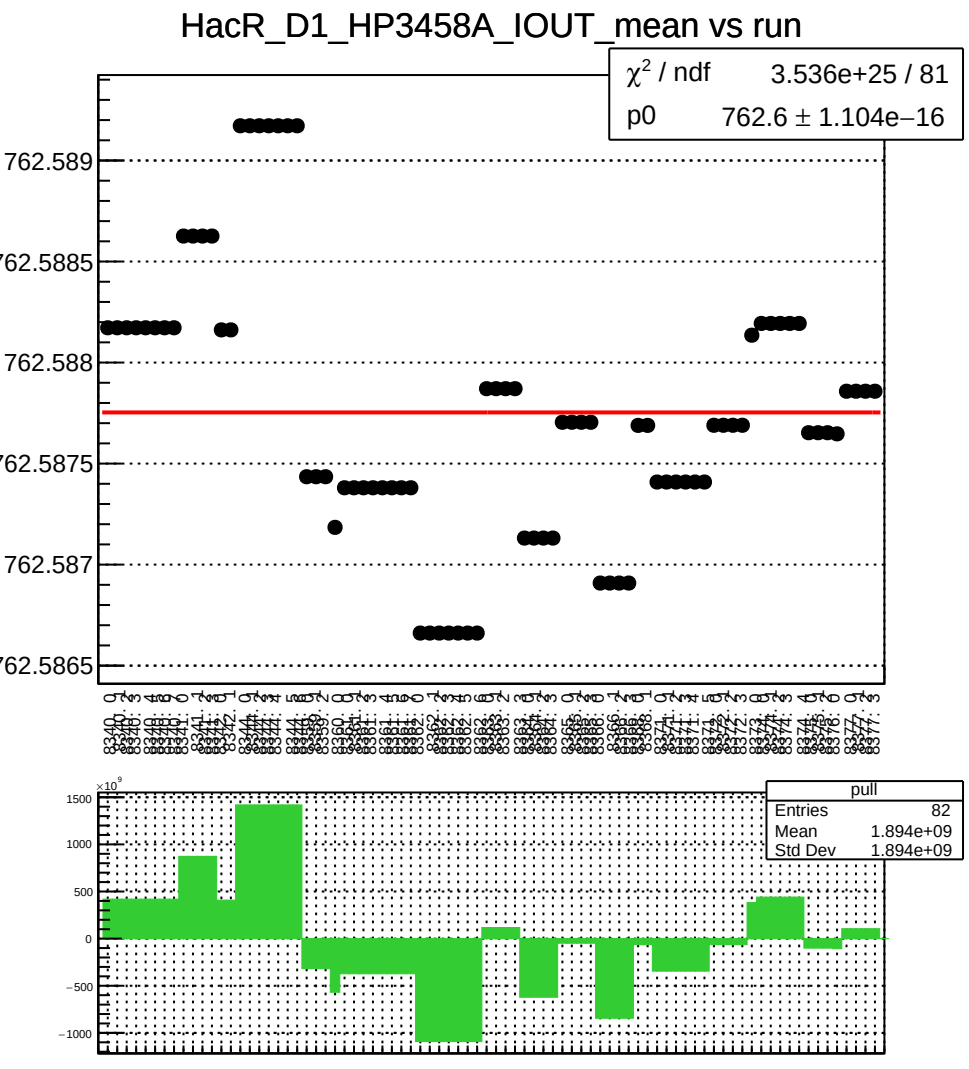

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

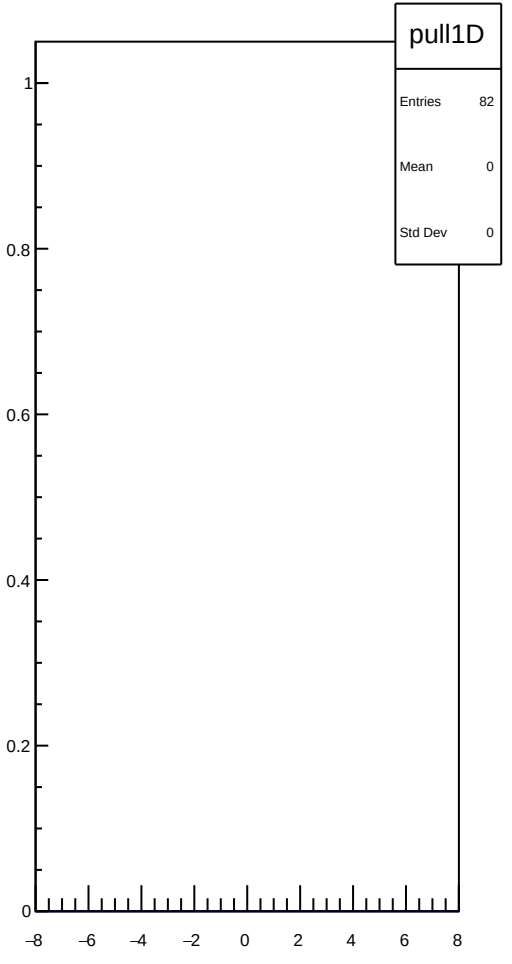

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.01999 / 81
p0 0.009375 ± 1.104e−16
9.375
pull
Entries 82
Mean 41
Std Dev 23.67

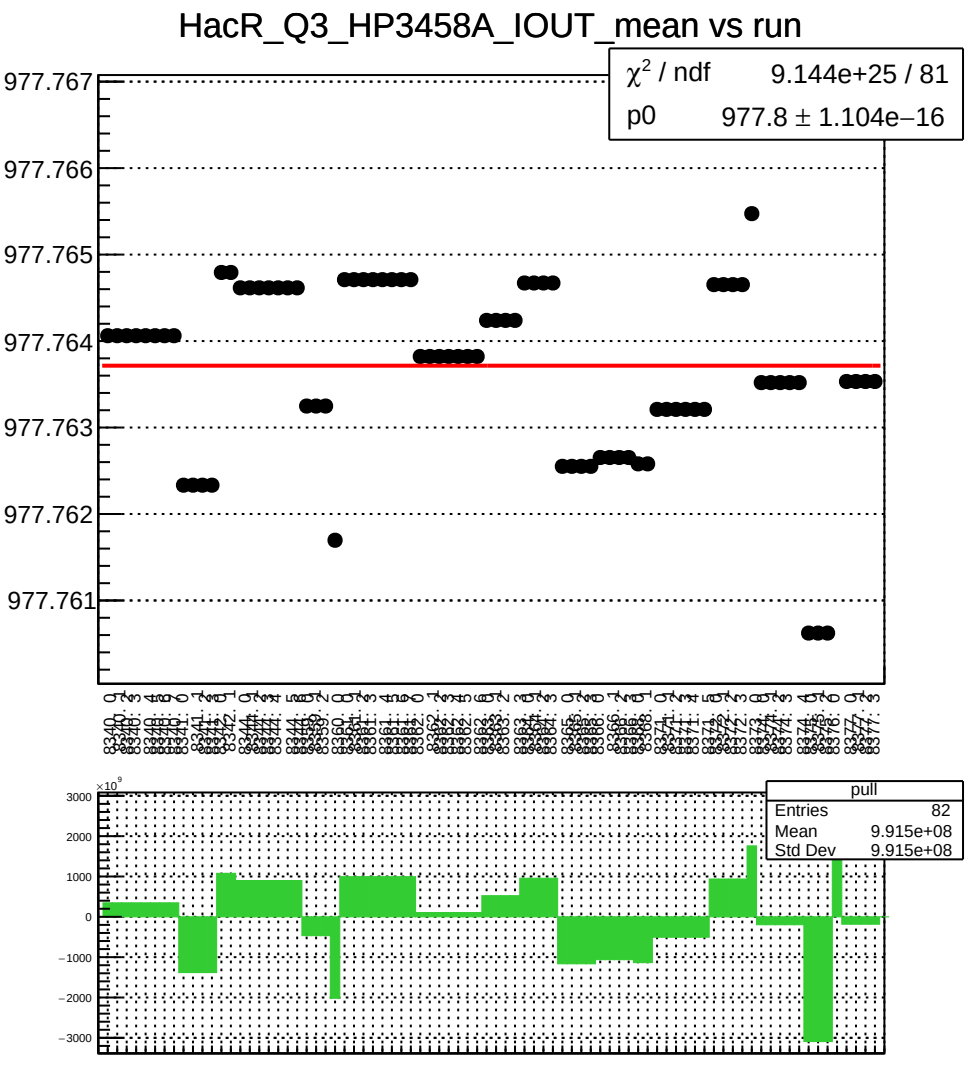

pull1D
Entries 82
Mean 0.01561
Std Dev 2.852e−10

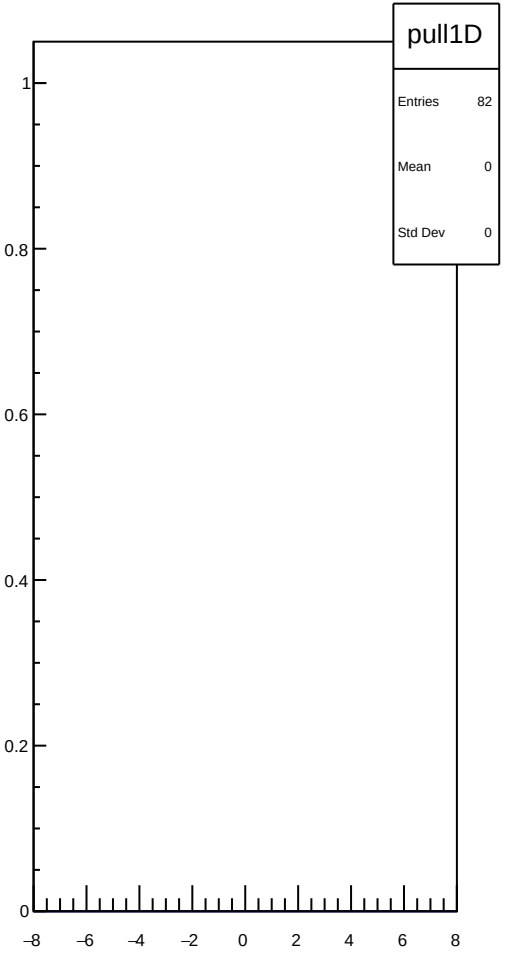

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.054e+28 / 81
p0 925 ± 1.104e−16
925.02
925.015
925.01
925.005
925
924.995
924.99
924.985
×10¹²
15
10
5
0
−5
−10
−15
−20
pull
Entries 82
Mean −1.18e+08
Std Dev 1.18e+08

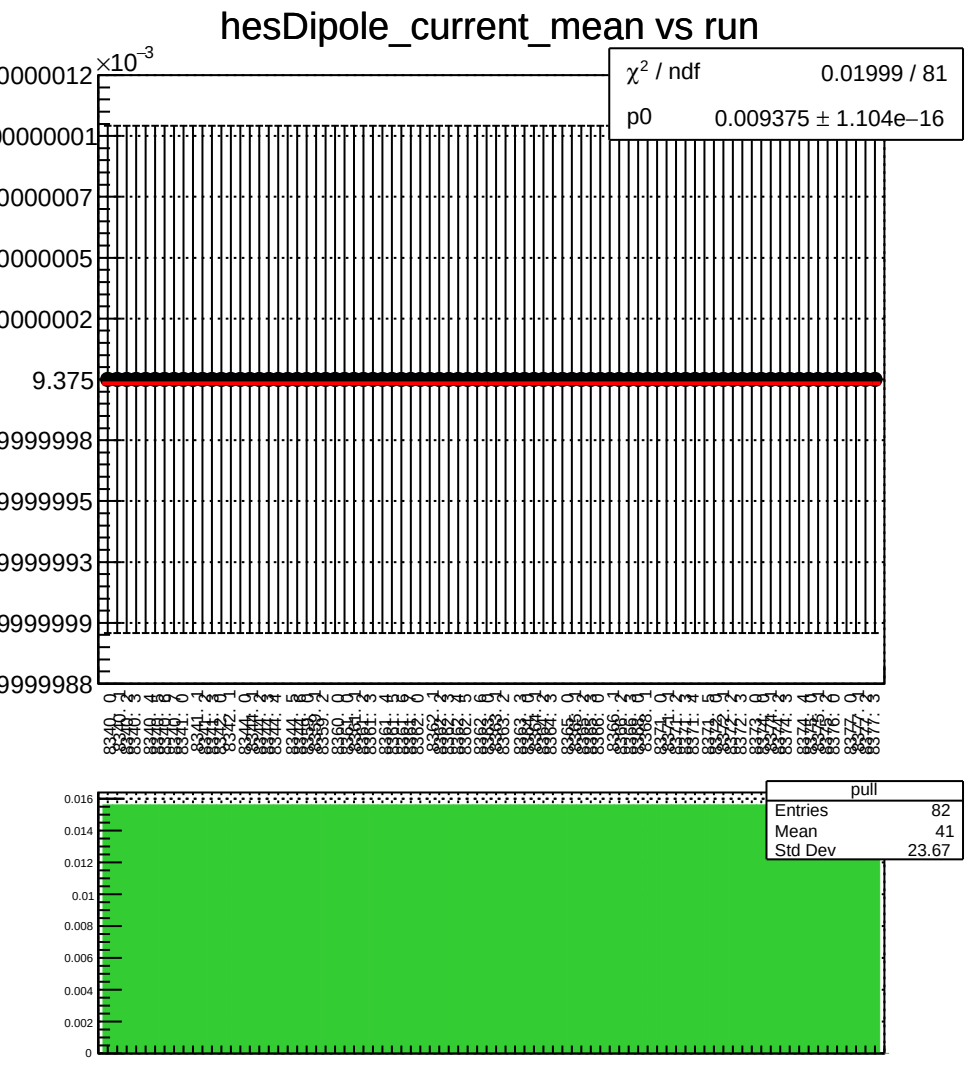

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

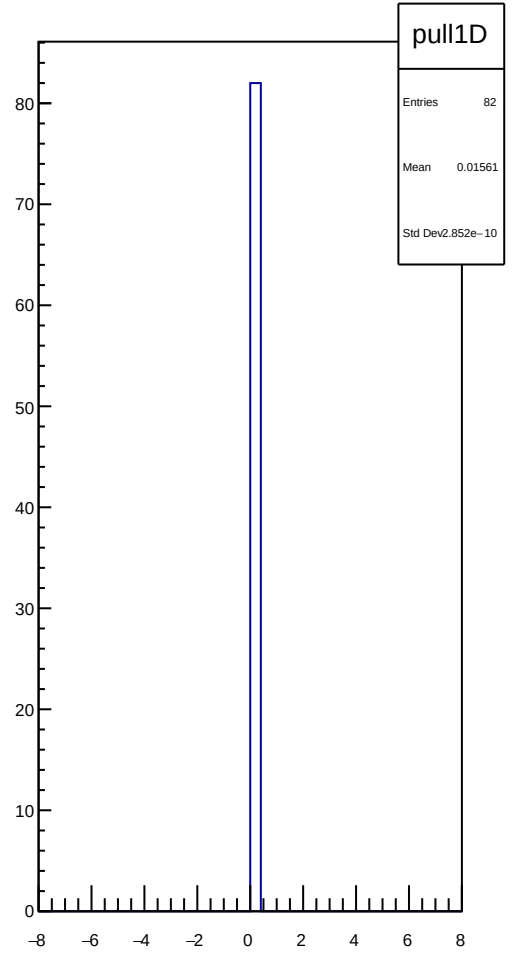

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.536e+25 / 81
p0 762.6 ± 1.104e−16
762.589
762.5885
762.588
762.5875
762.587
762.5865
pull
Entries 82
Mean 1.894e+09
Std Dev 1.894e+09
×10⁹
1500
1000
500
0
−500
−1000

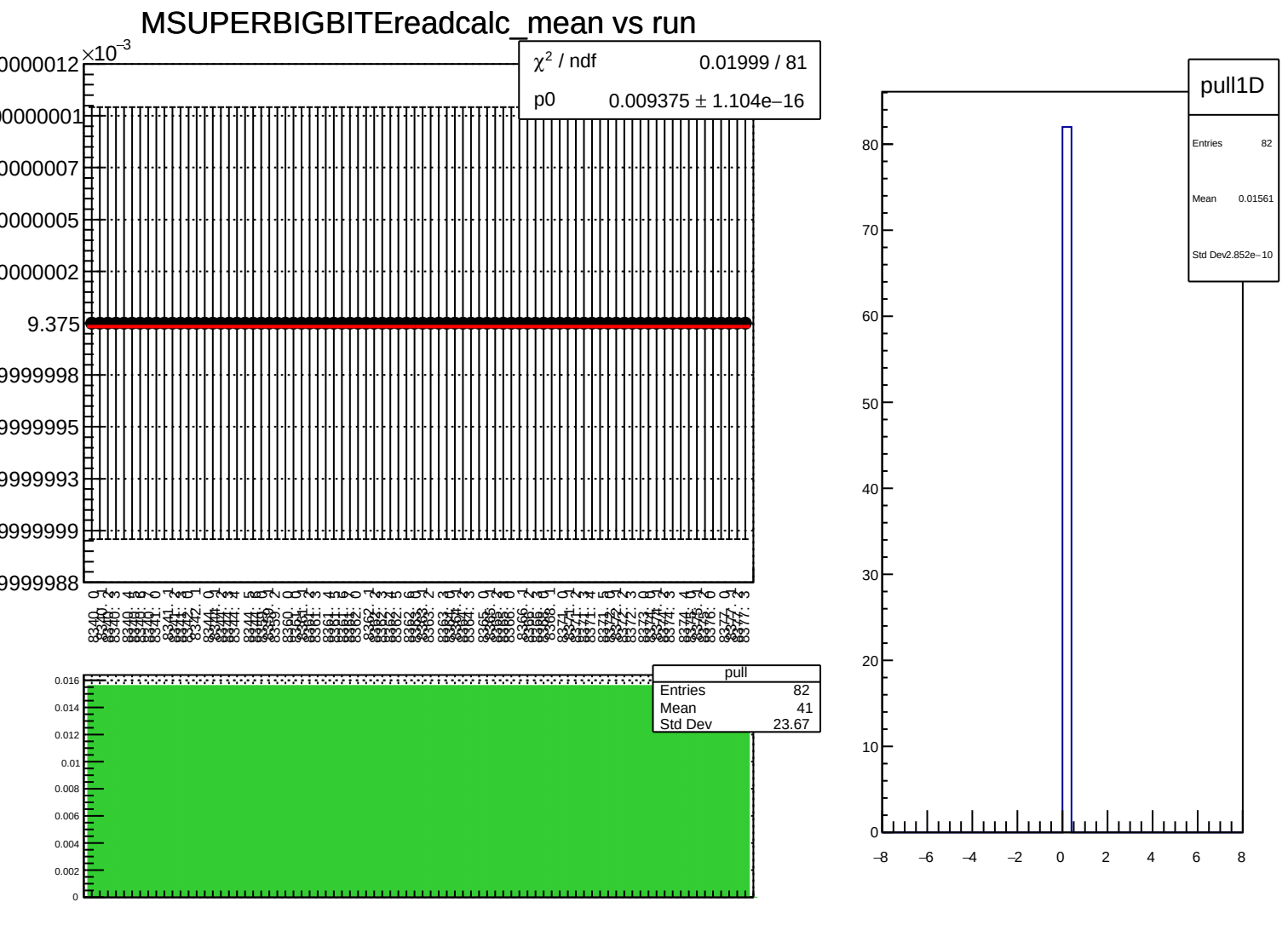

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

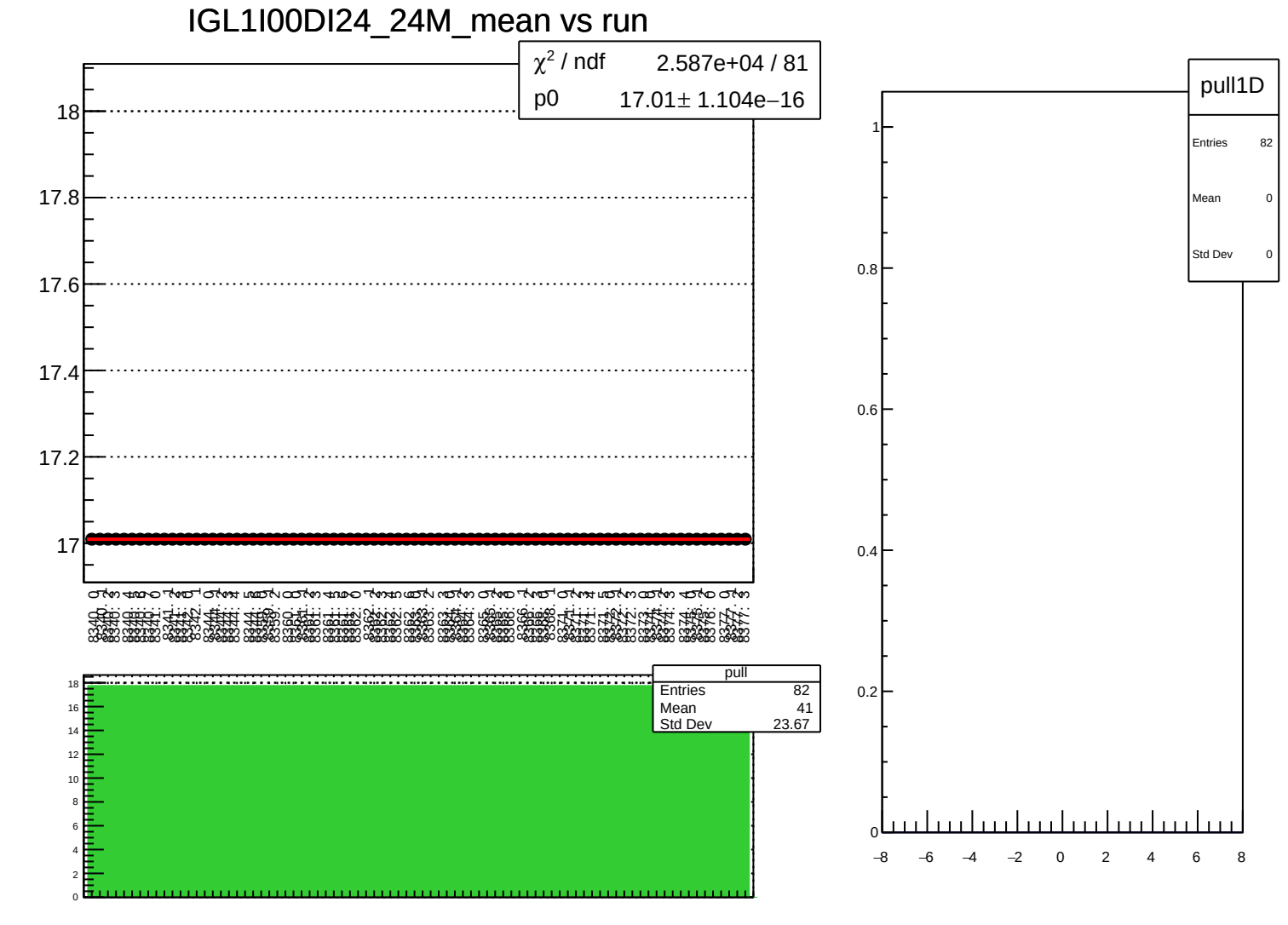

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 9.144e+25 / 81
p0 977.8 ± 1.104e−16
977.767
977.766
977.765
977.764
977.763
977.762
977.761
pull
Entries 82
Mean 9.915e+08
Std Dev 9.915e+08
×10⁹
3000
2000
1000
0
−1000
−2000
−3000

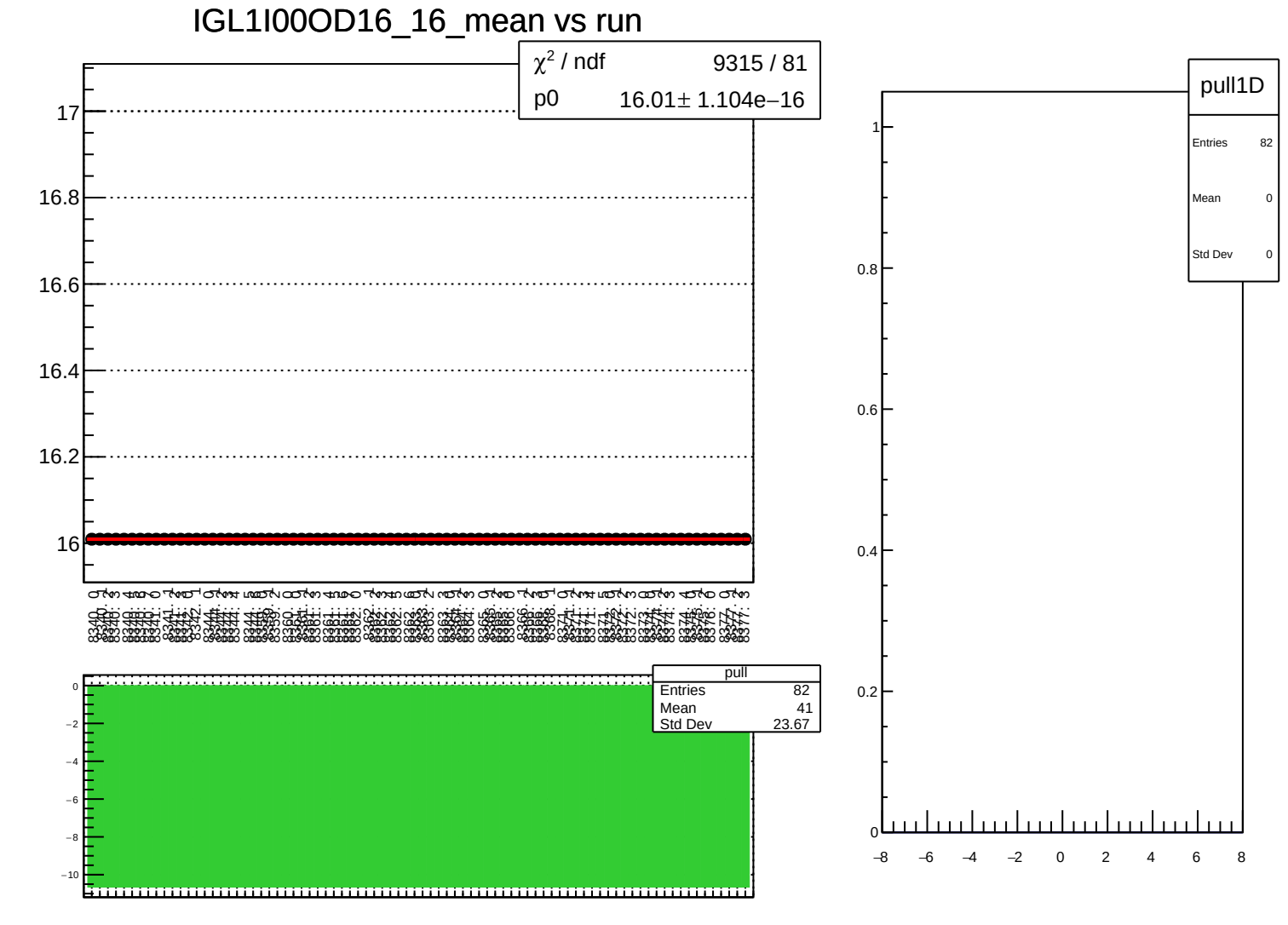

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

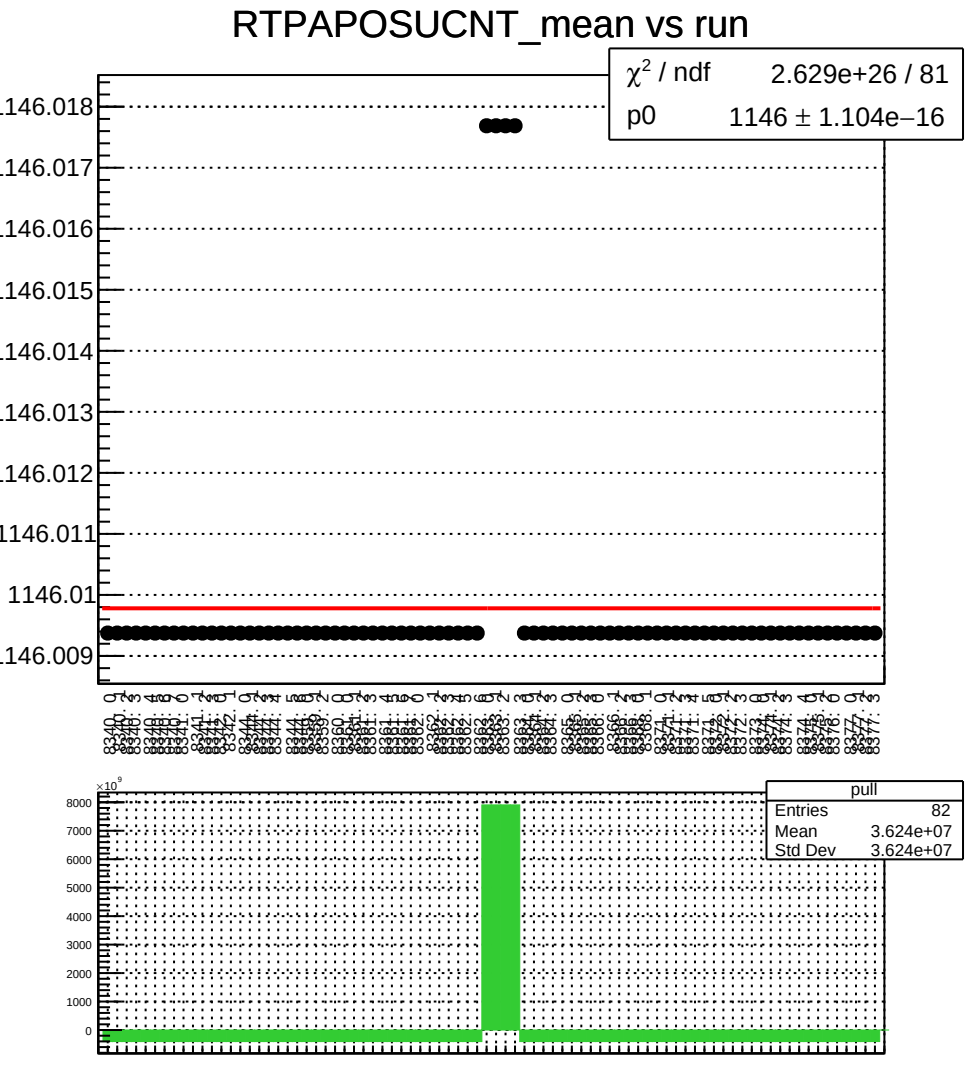

hesDipole_current_mean vs run
χ² / ndf 0.01999 / 81
p0 0.009375 ± 1.104e−16
×10⁻³
pull
Entries 82
Mean 41
Std Dev 23.67

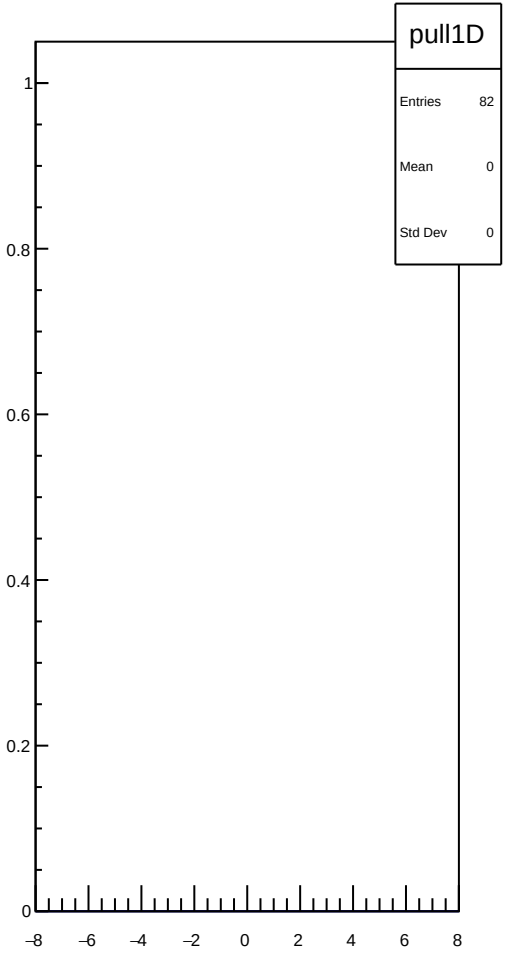

pull1D
Entries 82
Mean 0.01561
Std Dev 2.852e−10

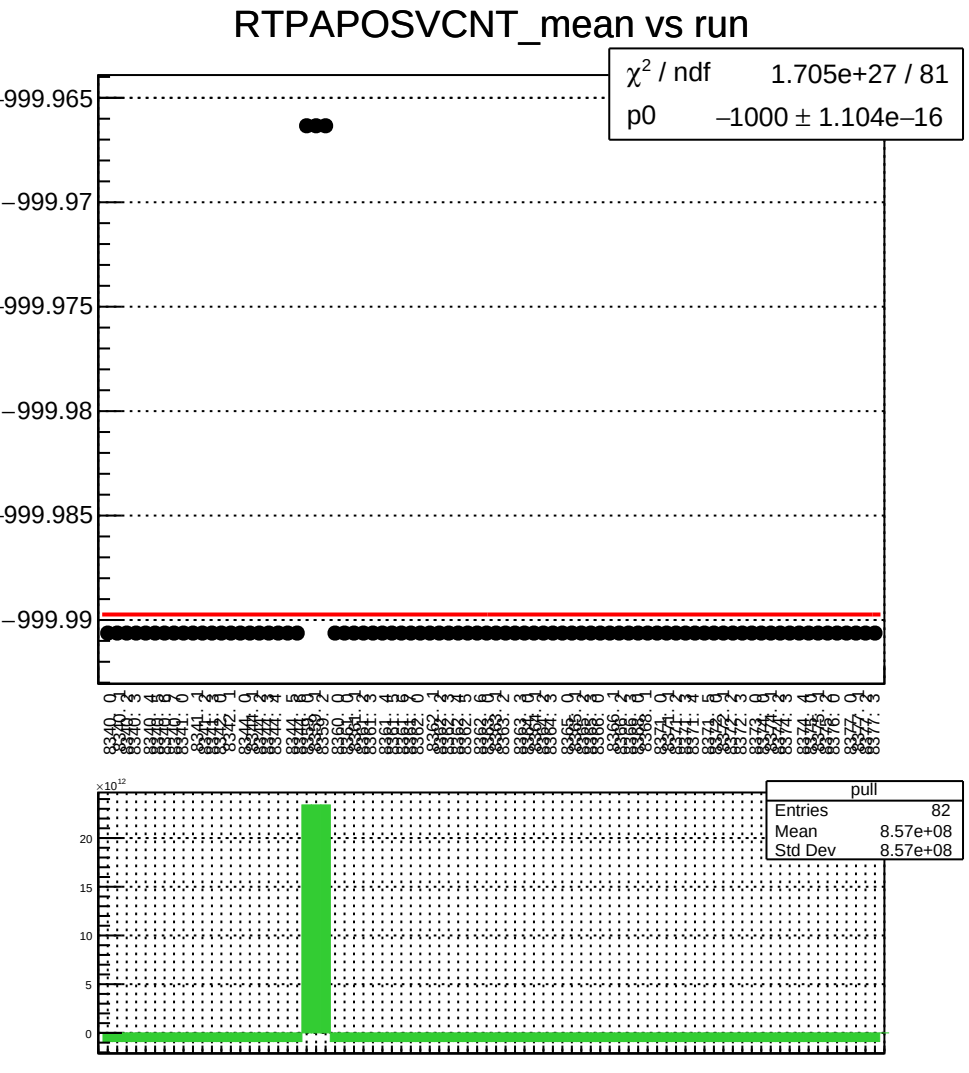

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.01999 / 81
p0 0.009375 ± 1.104e−16
×10⁻³
pull
Entries 82
Mean 41
Std Dev 23.67
pull1D
Entries 82
Mean 0.01561
Std Dev 2.852e−10

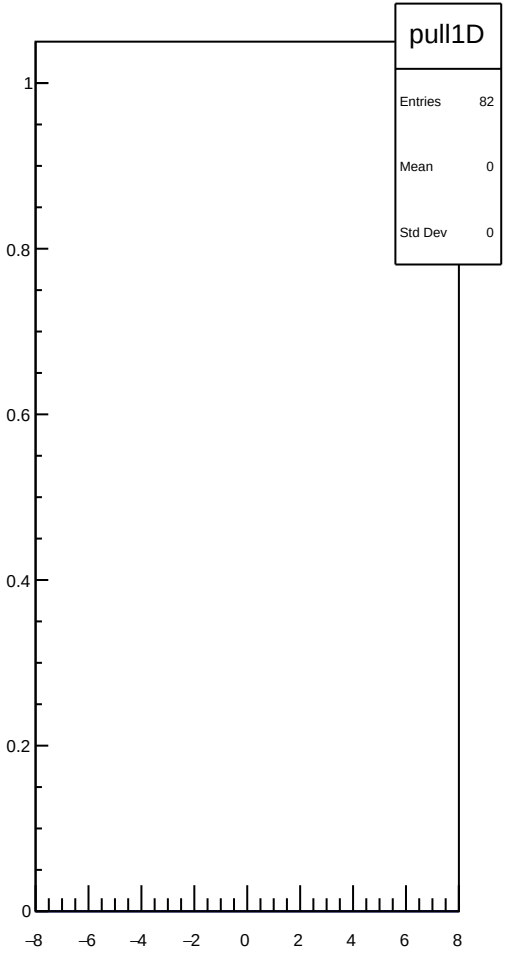

IGL1I00DI24_24M_mean vs run
χ² / ndf 2.587e+04 / 81
p0 17.01± 1.104e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 82
Mean 41
Std Dev 23.67
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

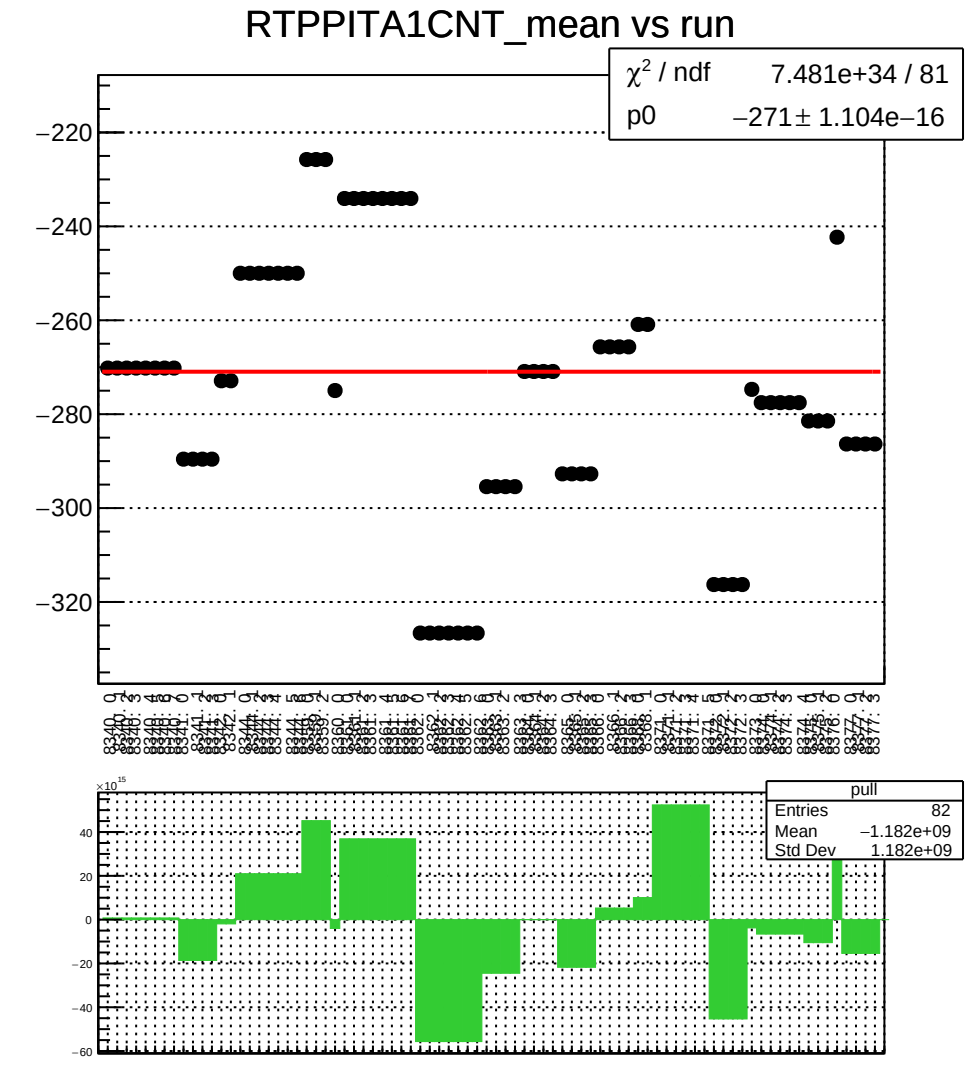

IGL1I00OD16_16_mean vs run
χ² / ndf 9315 / 81
p0 16.01± 1.104e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 82
Mean 41
Std Dev 23.67
0
−2
−4
−6
−8
−10
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

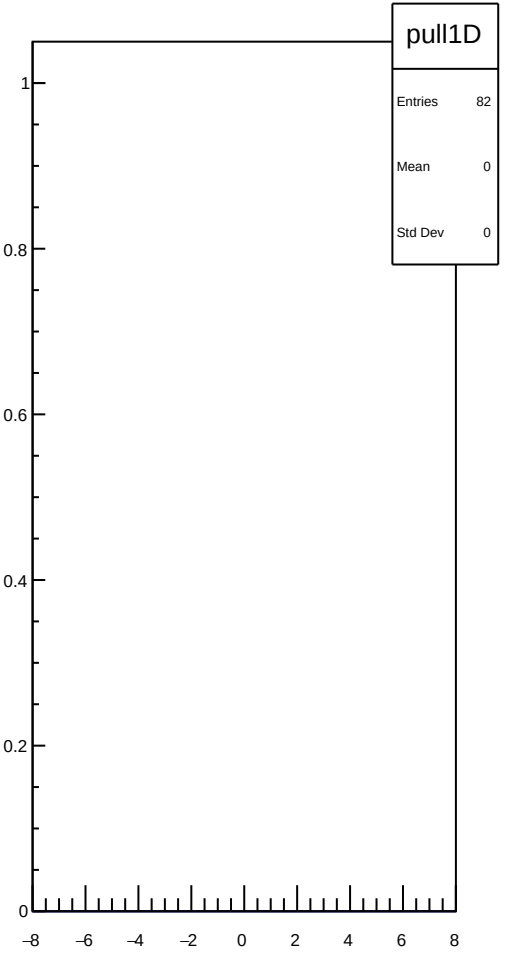

RTPAPOSUCNT_mean vs run
χ² / ndf 2.629e+26 / 81
p0 1146 ± 1.104e−16
1146.018
1146.017
1146.016
1146.015
1146.014
1146.013
1146.012
1146.011
1146.01
1146.009
pull
Entries 82
Mean 3.624e+07
Std Dev 3.624e+07
×10⁹
8000
7000
6000
5000
4000
3000
2000
1000
0

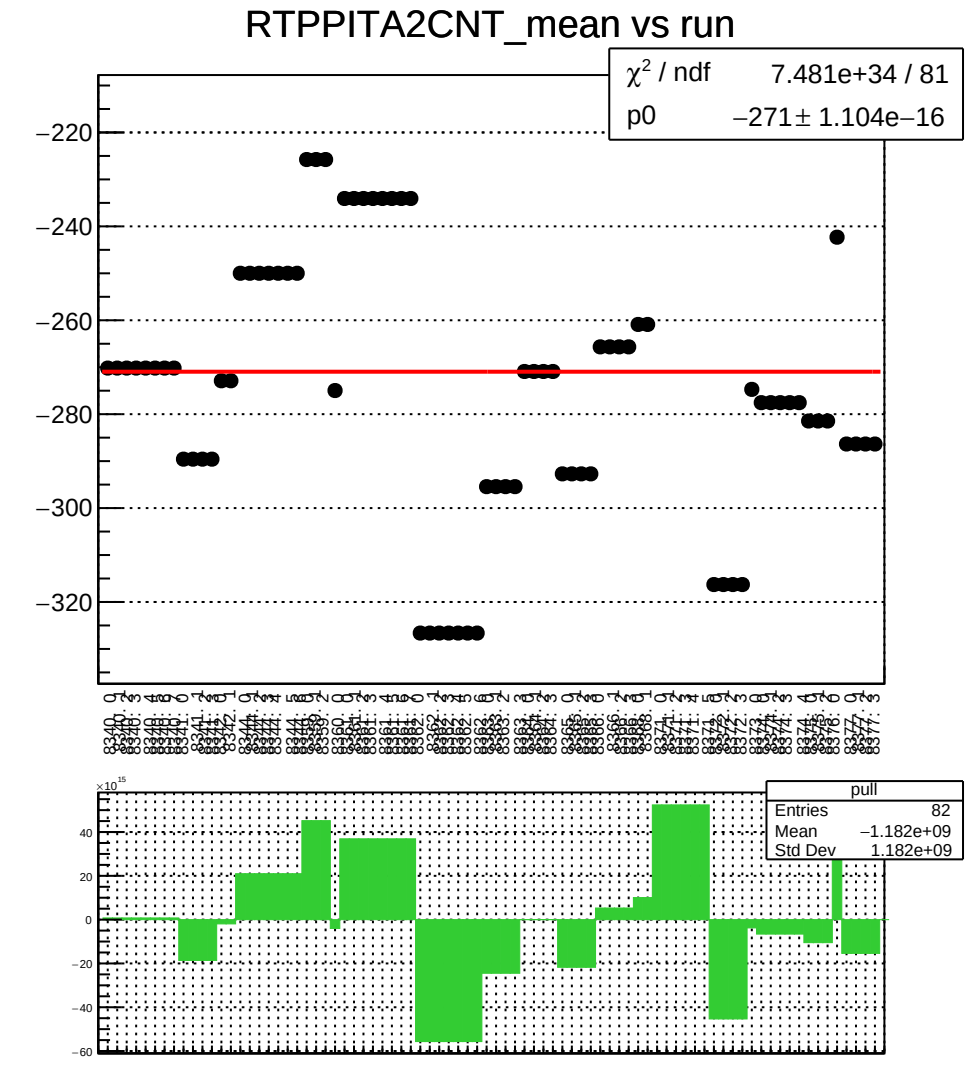

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 1.705e+27 / 81
p0 −1000 ± 1.104e−16
−999.965
−999.97
−999.975
−999.98
−999.985
−999.99
pull
Entries 82
Mean 8.57e+08
Std Dev 8.57e+08
×10¹²
20
15
10
5
0


pull1D
Entries 82
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 7.481e+34 / 81
p0 −271 ± 1.104e−16
pull
Entries 82
Mean −1.182e+09
Std Dev 1.182e+09
×10¹⁵


pull1D
Entries 82
Mean 0
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 7.481e+34 / 81
p0 −271 ± 1.104e−16
pull
Entries 82
Mean −1.182e+09
Std Dev 1.182e+09
pull1D
Entries 82
Mean 0
Std Dev 0