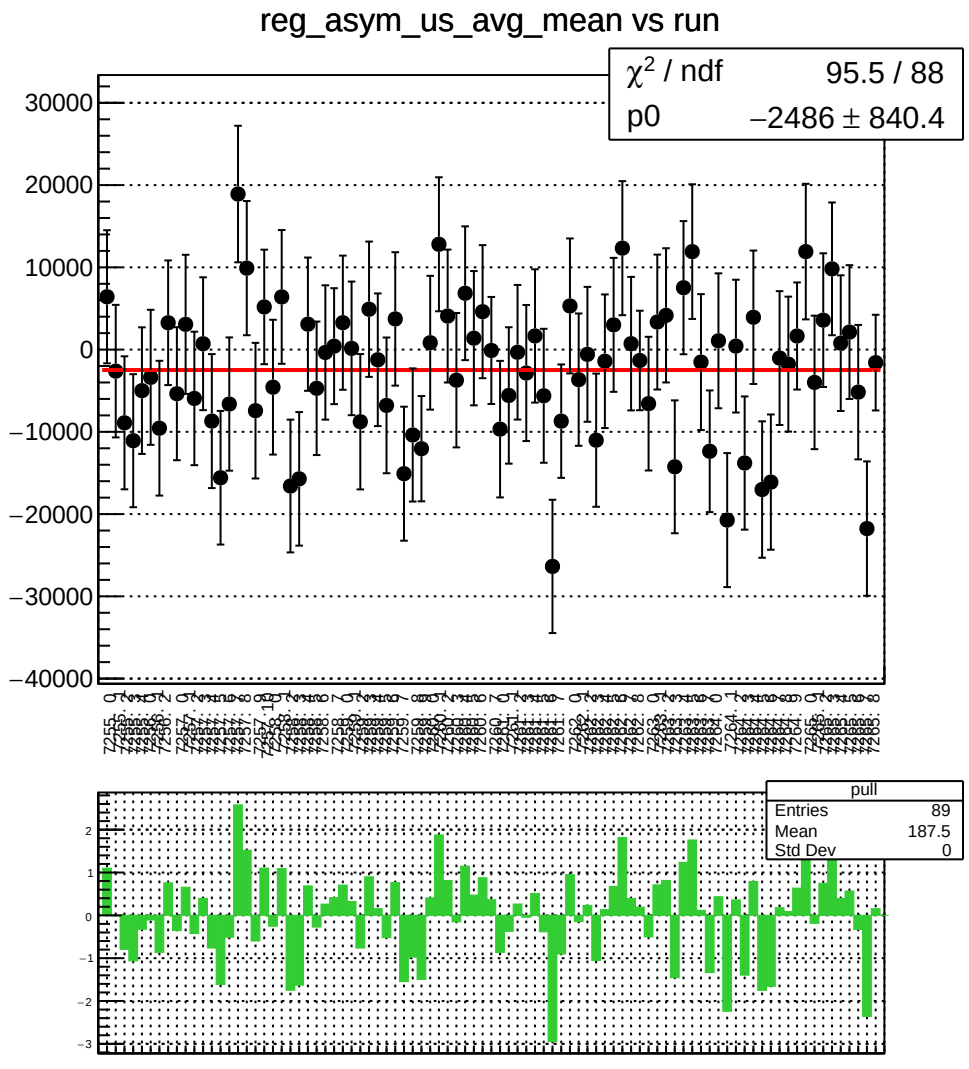
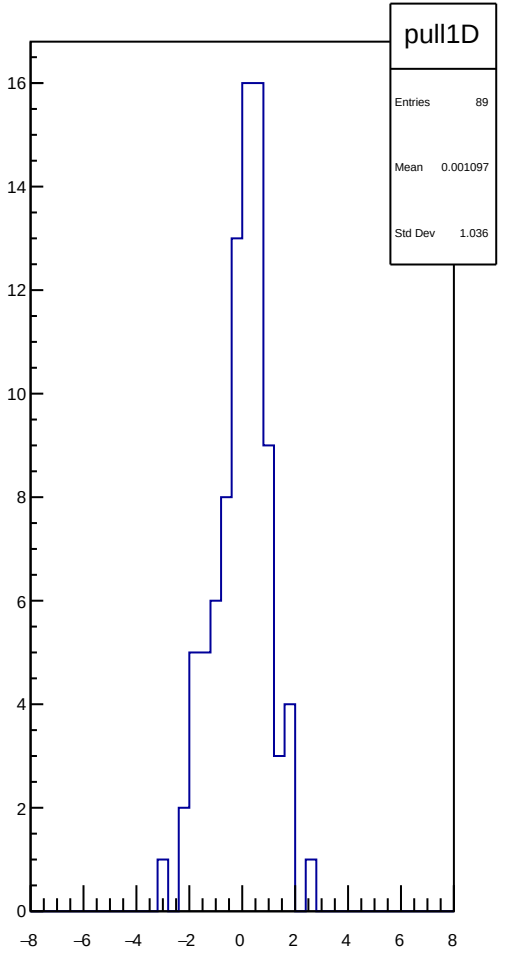
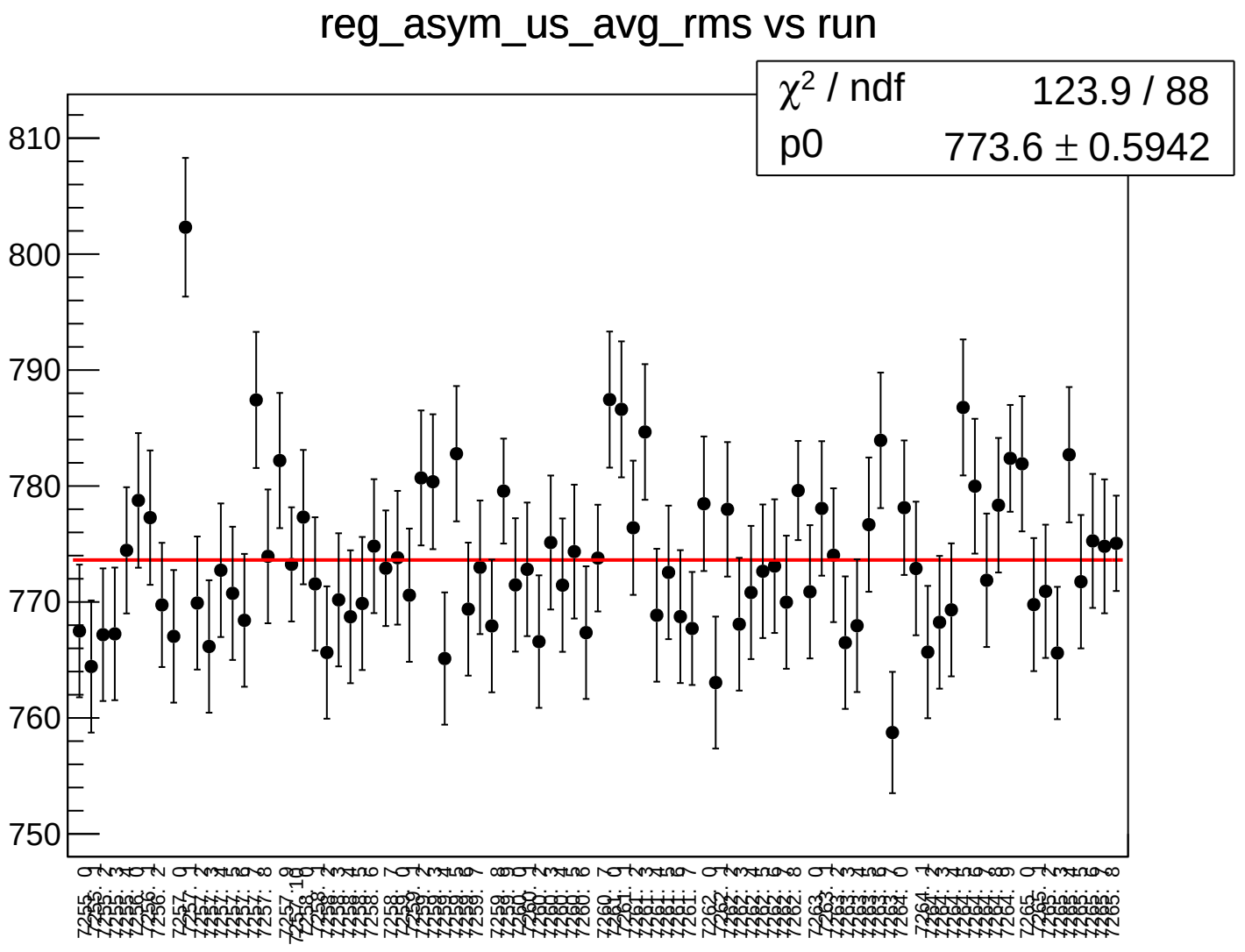
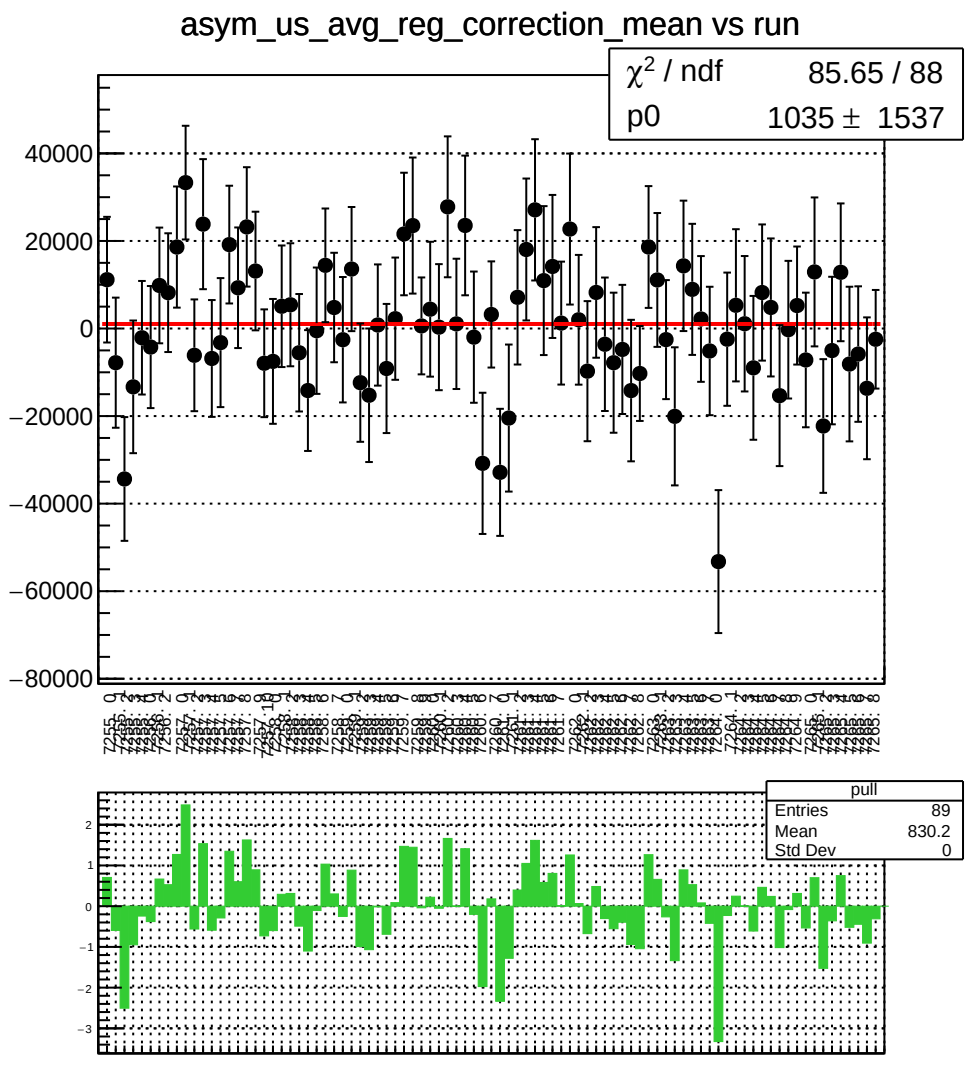
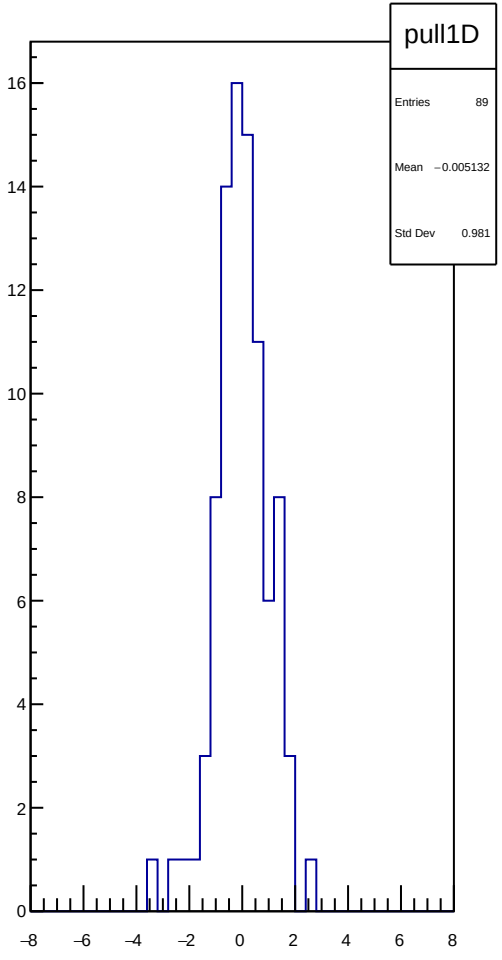
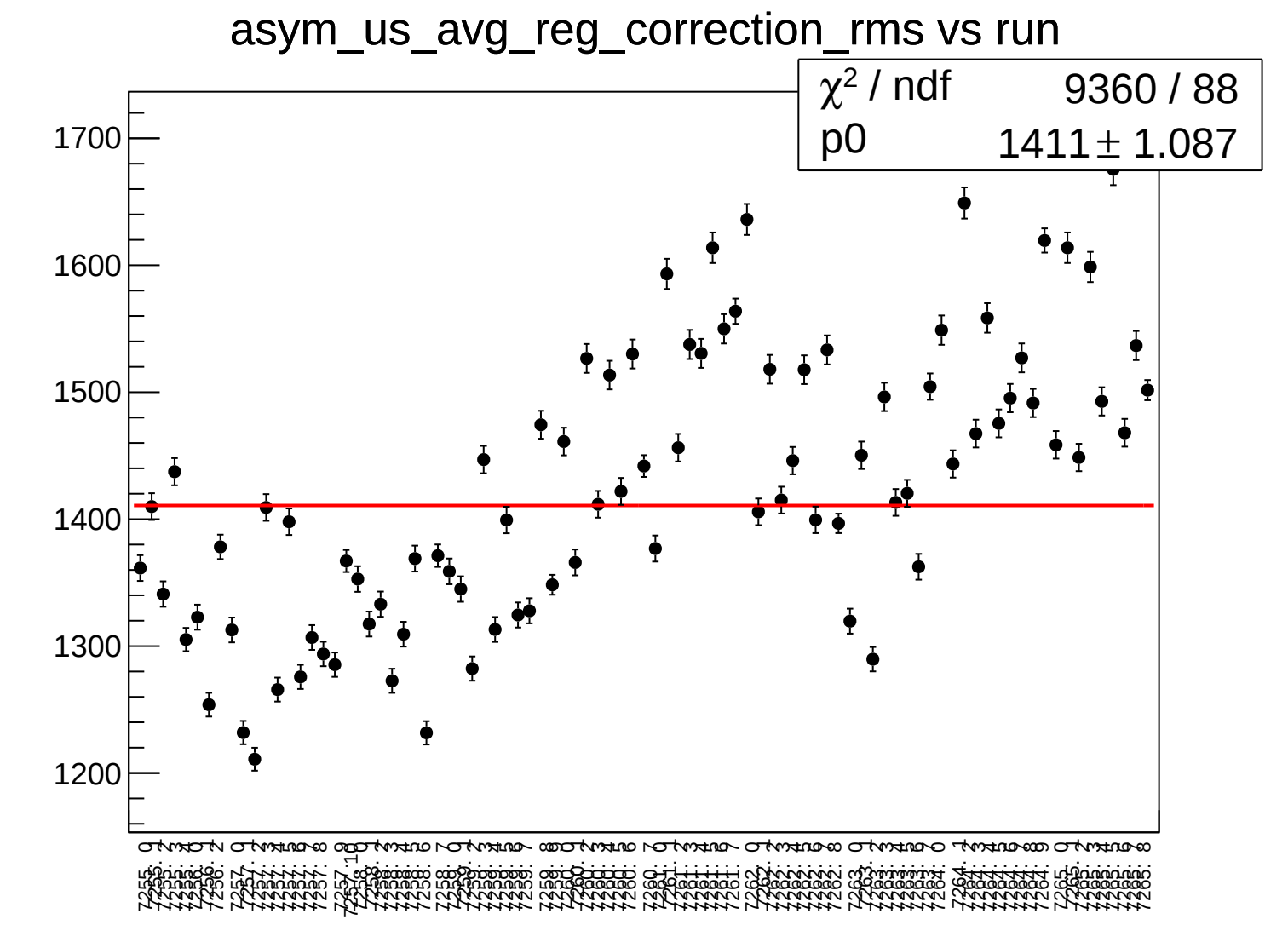

reg_asym_us_avg_mean vs run
χ² / ndf 95.5 / 88
p0 −2486 ± 840.4
pull
Entries 89
Mean 187.5
Std Dev 0

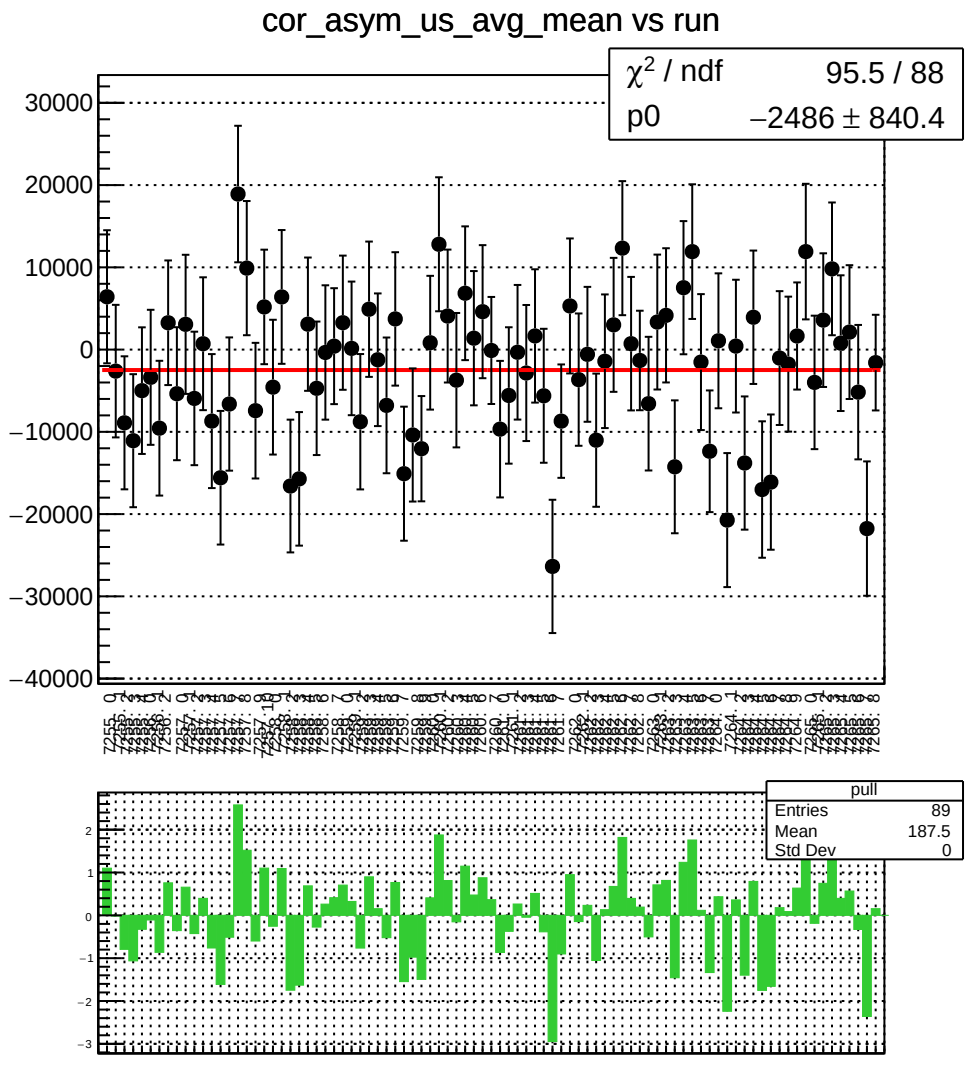

pull1D
Entries 89
Mean 0.001097
Std Dev 1.036

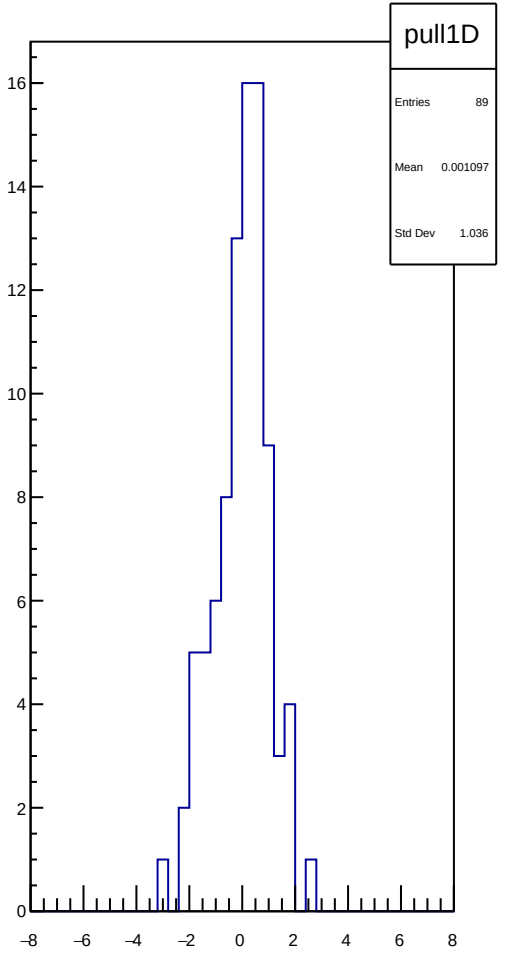

reg_asym_us_avg_rms vs run
χ^2 / ndf 123.9 / 88
p0 773.6 ± 0.5942
810
800
790
780
770
760
750

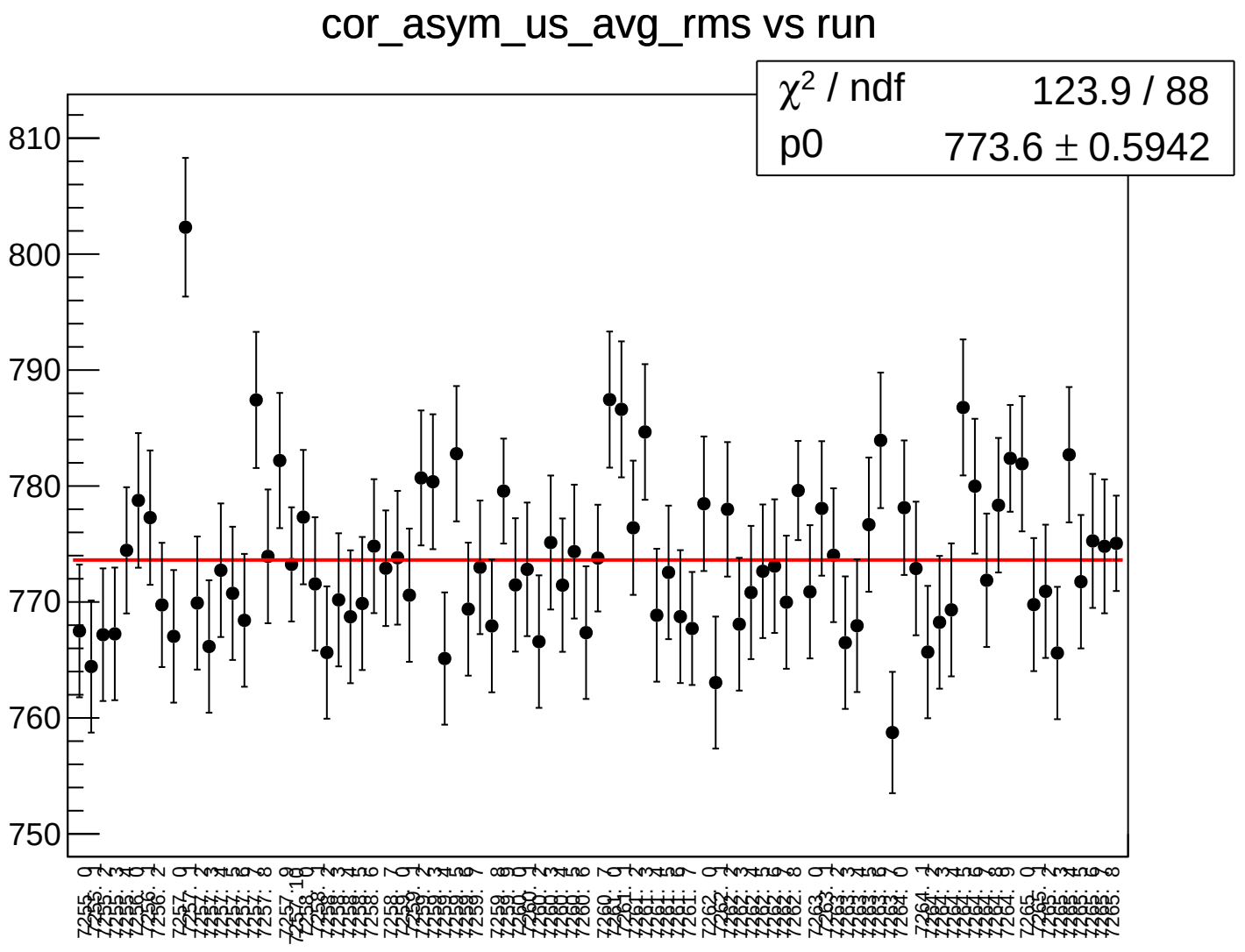

asym_us_avg_reg_correction_mean vs run
χ² / ndf 85.65 / 88
p0 1035 ± 1537
pull
Entries 89
Mean 830.2
Std Dev 0

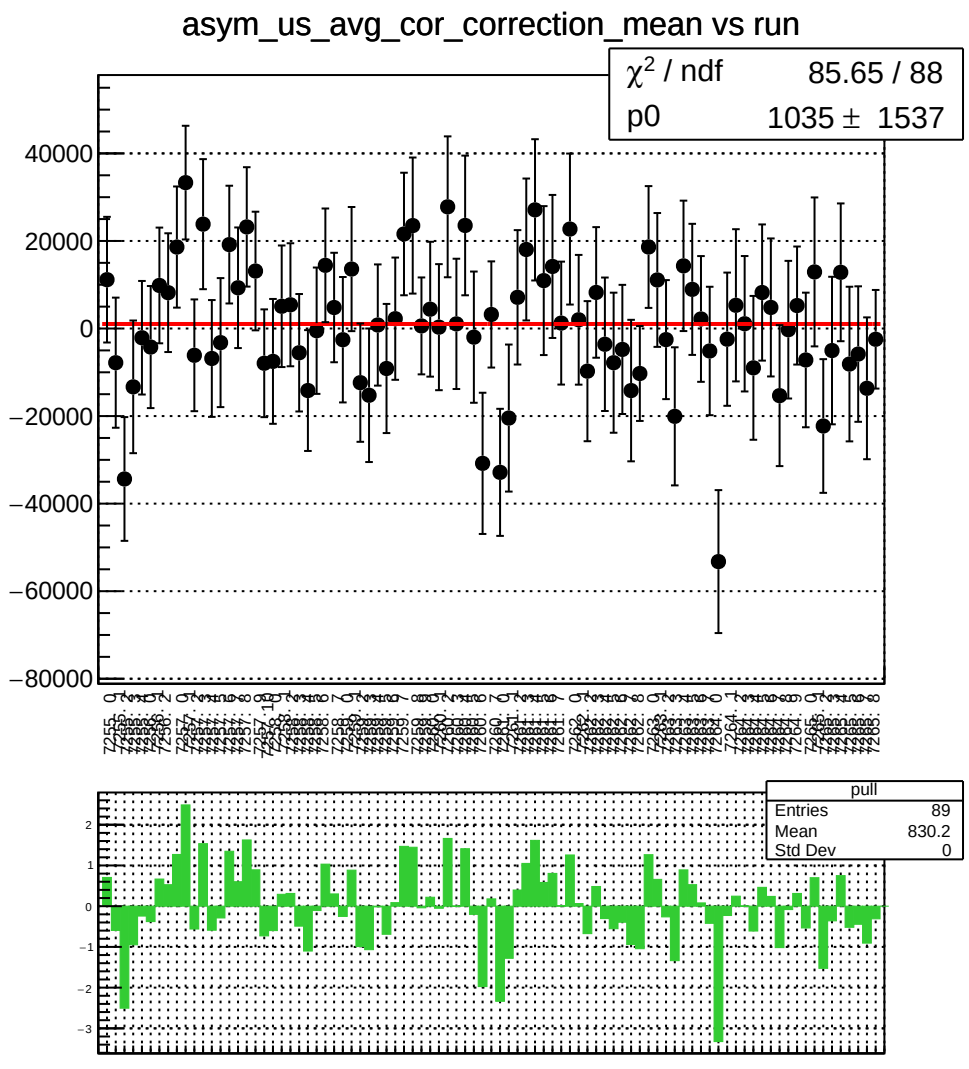

pull1D
Entries 89
Mean −0.005132
Std Dev 0.981

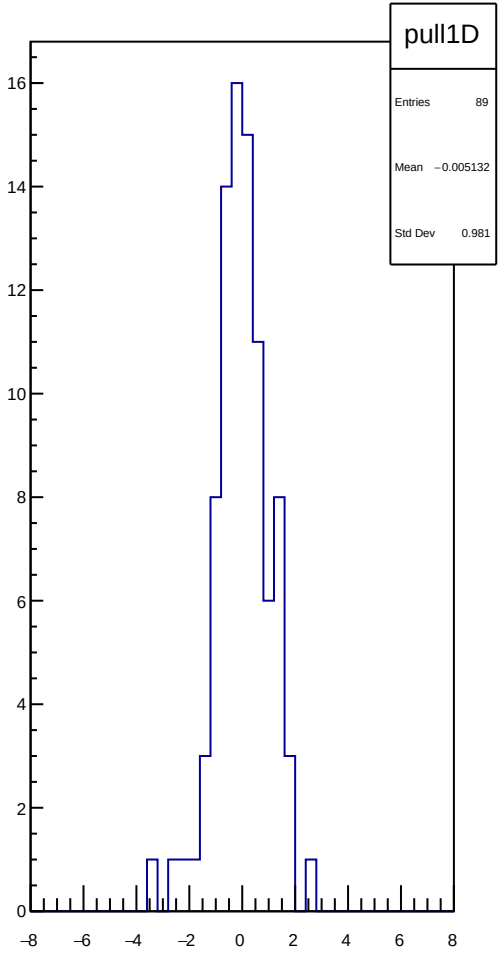

asym_us_avg_reg_correction_rms vs run
χ² / ndf 9360 / 88
p0 1411 ± 1.087
1700
1600
1500
1400
1300
1200

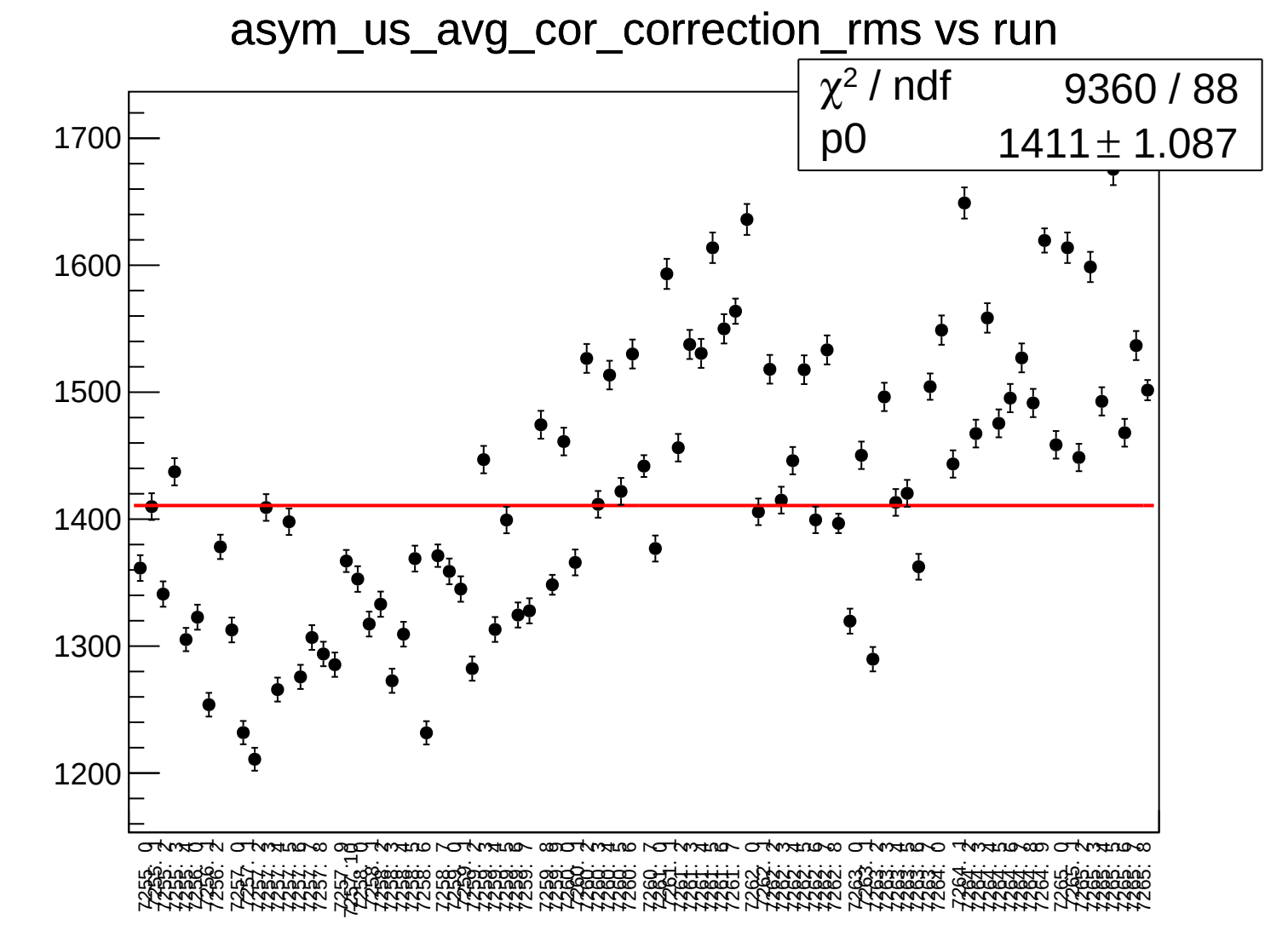

cor_asym_us_avg_mean vs run
χ² / ndf 95.5 / 88
p0 −2486 ± 840.4
pull
Entries 89
Mean 187.5
Std Dev 0

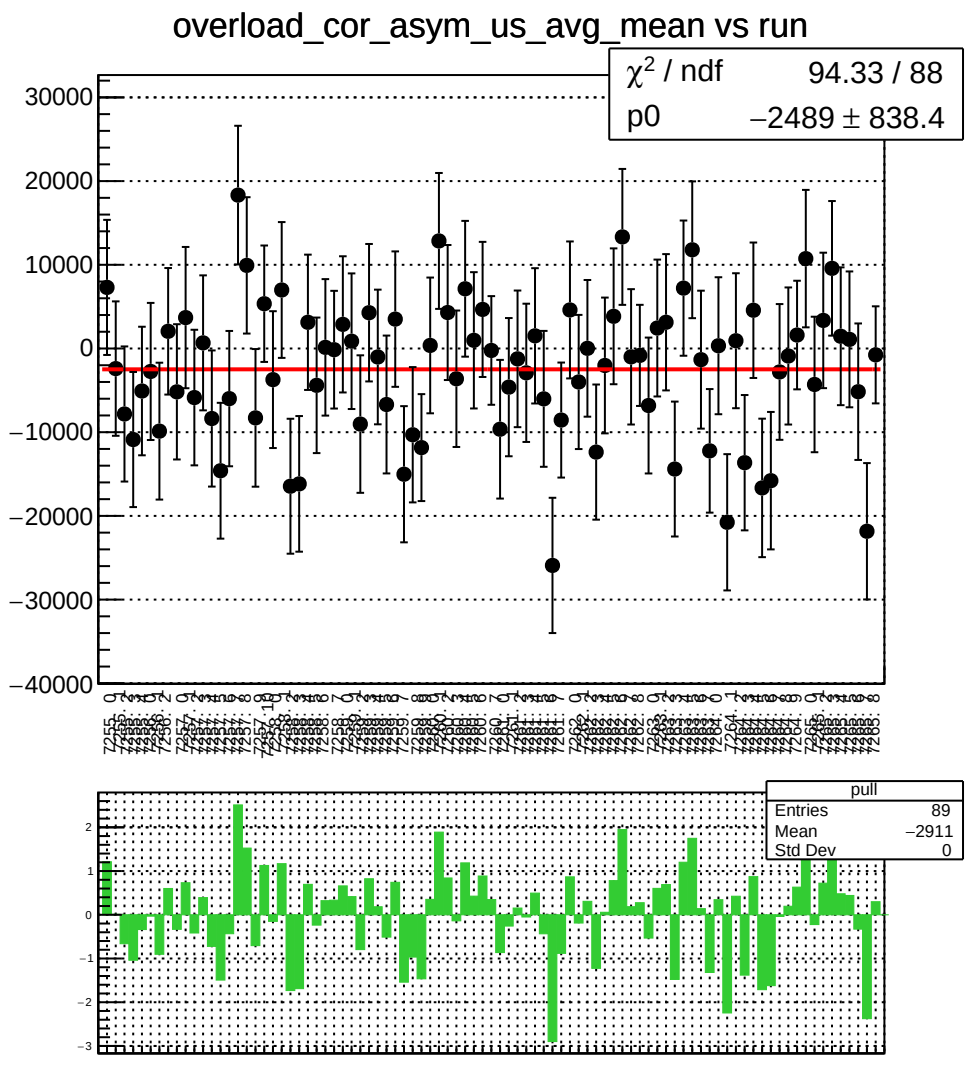

pull1D
Entries 89
Mean 0.001097
Std Dev 1.036

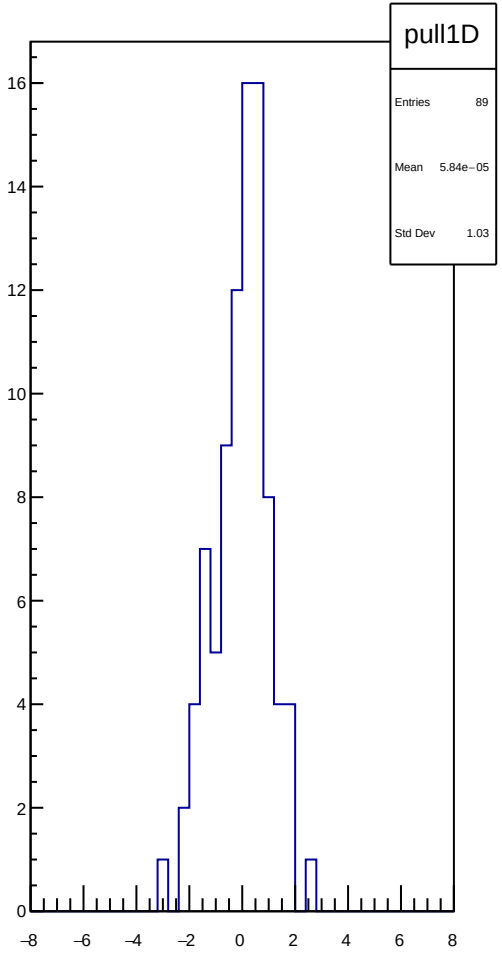

cor_asym_us_avg_rms vs run
χ² / ndf 123.9 / 88
p0 773.6 ± 0.5942
810
800
790
780
770
760
750

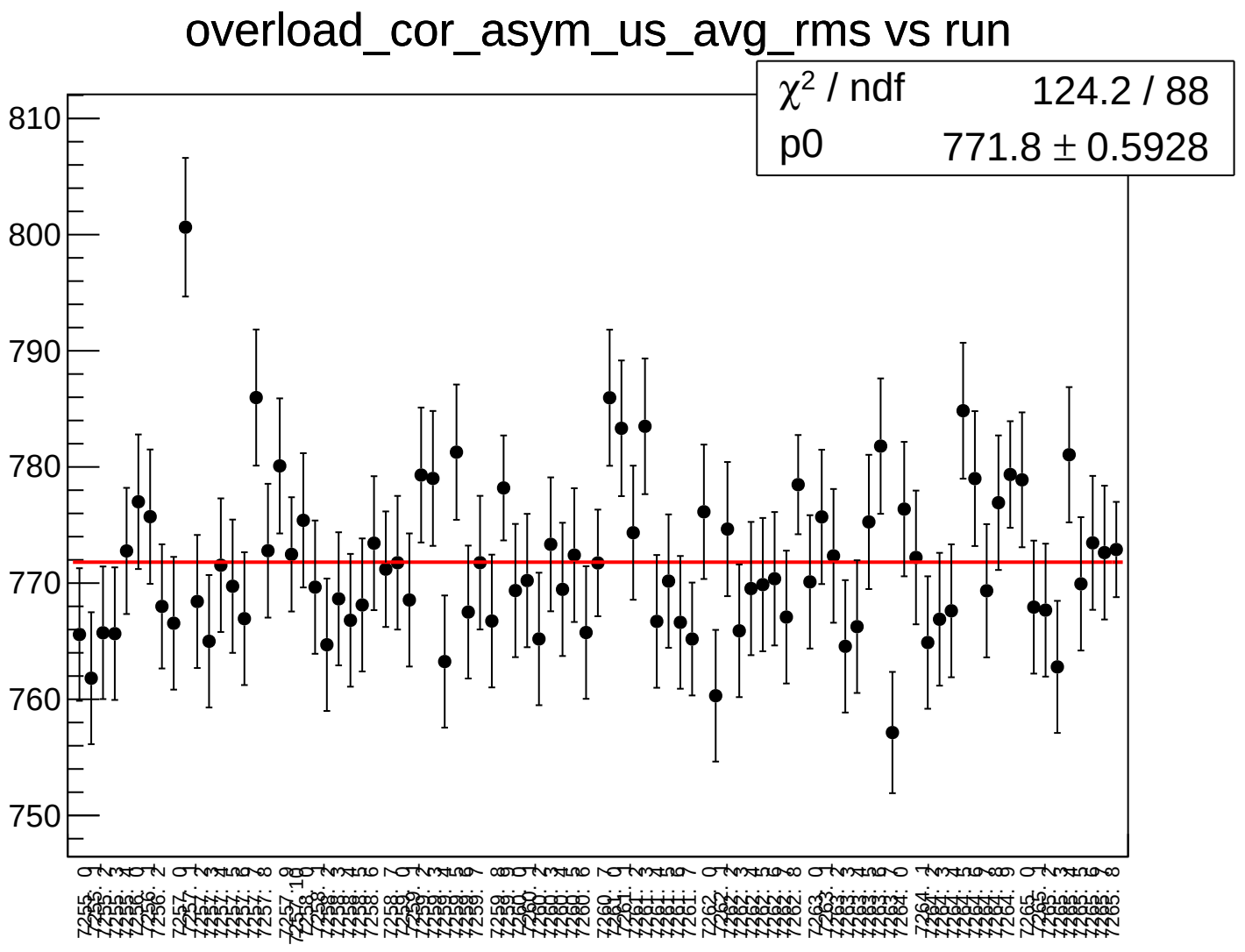

asym_us_avg_cor_correction_mean vs run
χ² / ndf 85.65 / 88
p0 1035 ± 1537
pull
Entries 89
Mean 830.2
Std Dev 0

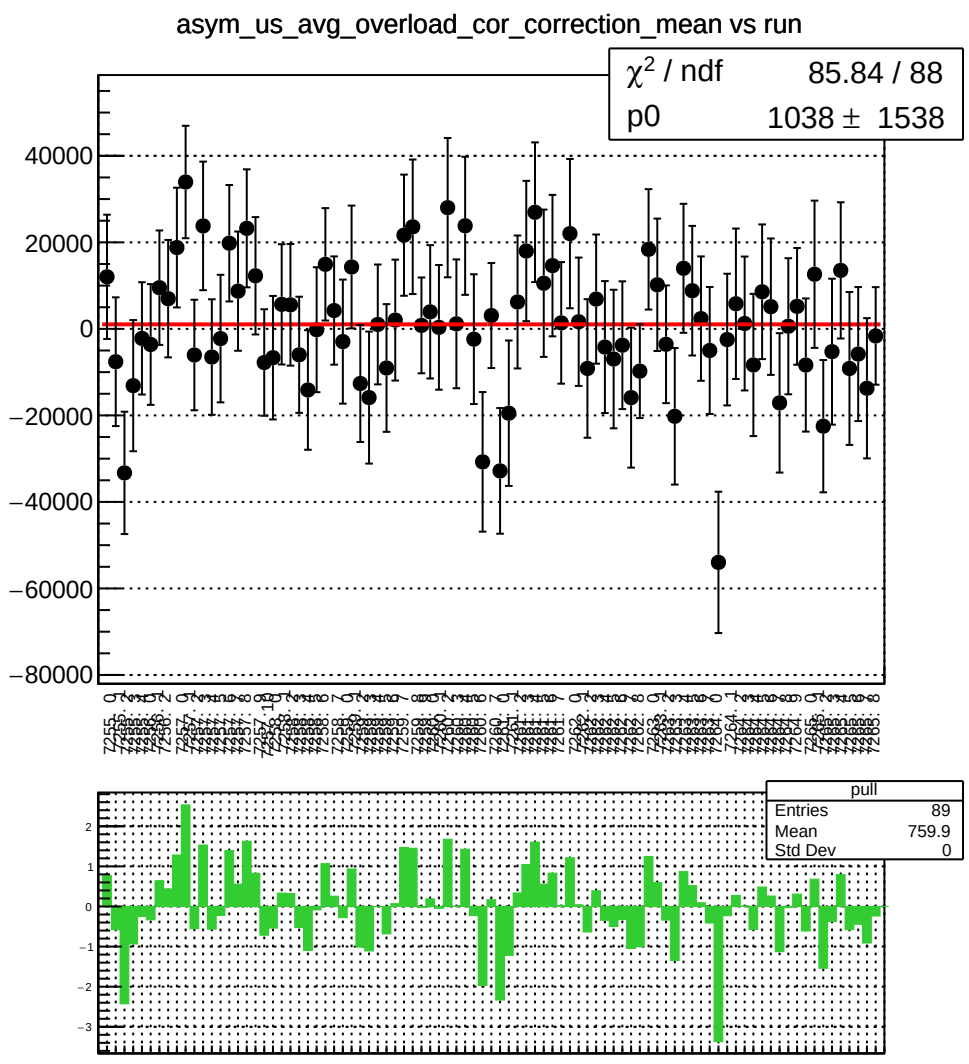

pull1D
Entries 89
Mean −0.005132
Std Dev 0.981

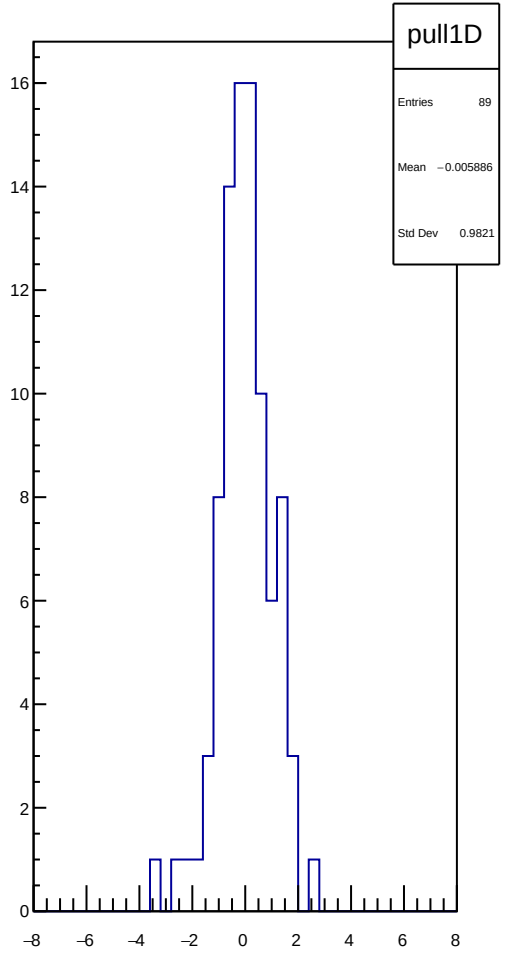

asym_us_avg_cor_correction_rms vs run
χ² / ndf 9360 / 88
p0 1411 ± 1.087
1700
1600
1500
1400
1300
1200

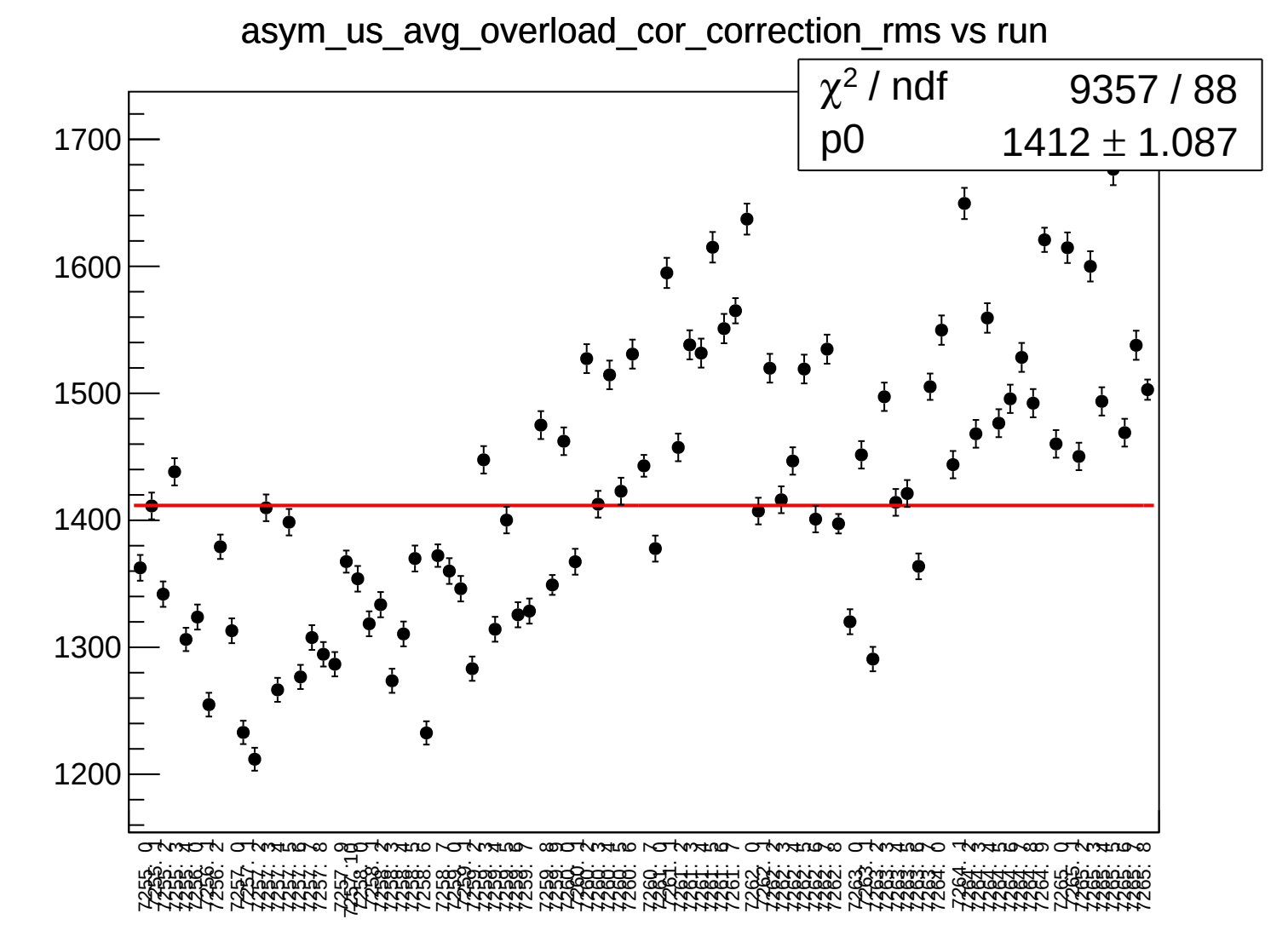

overload_cor_asym_us_avg_mean vs run
χ² / ndf 94.33 / 88
p0 −2489 ± 838.4
pull
Entries 89
Mean −2911
Std Dev 0

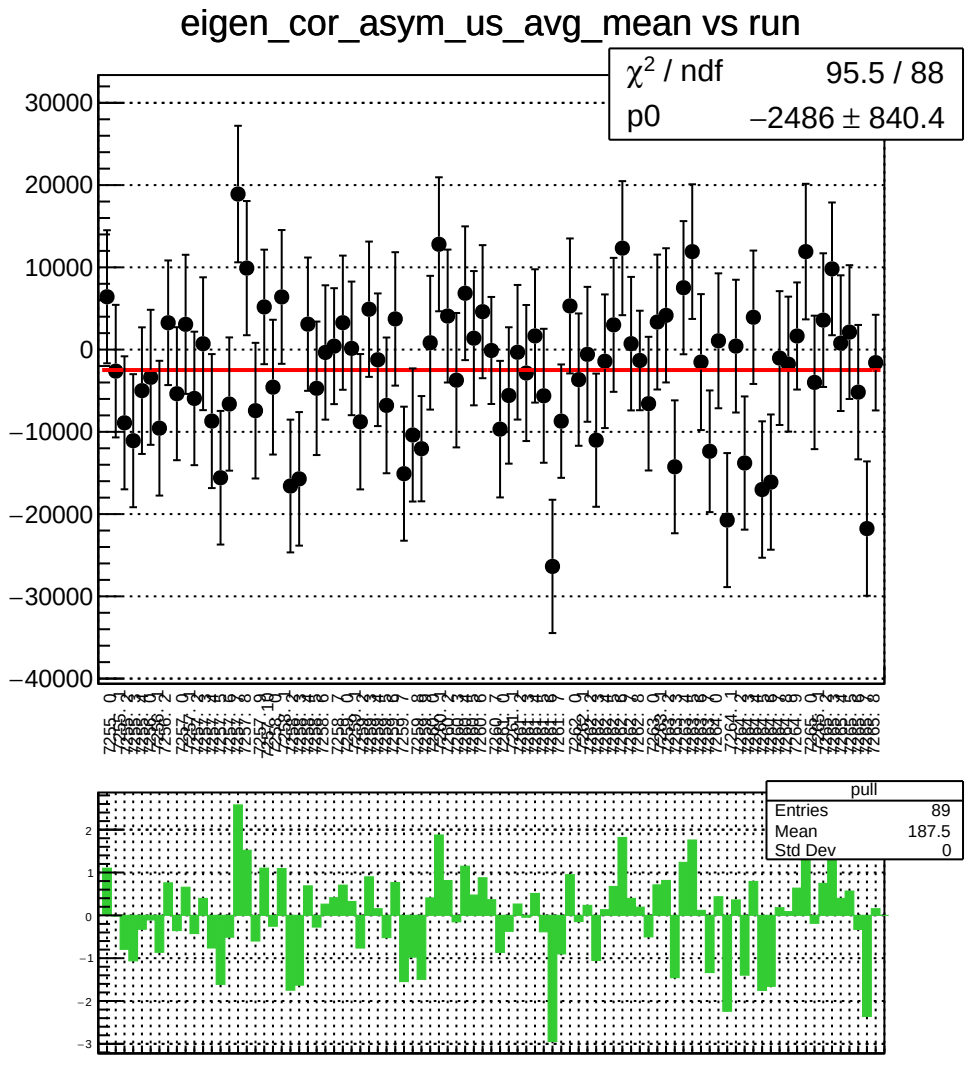

pull1D
Entries 89
Mean 5.84e−05
Std Dev 1.03

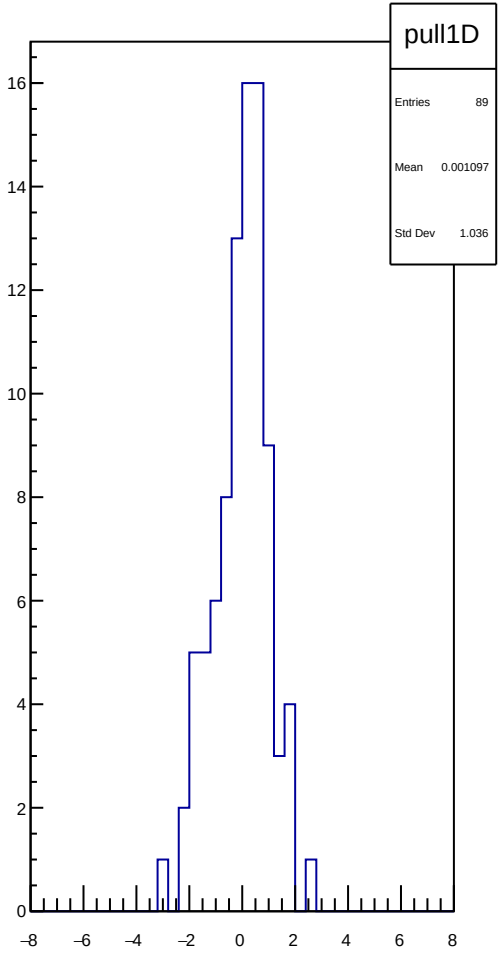

overload_cor_asym_us_avg_rms vs run
χ² / ndf 124.2 / 88
p0 771.8 ± 0.5928
810
800
790
780
770
760
750

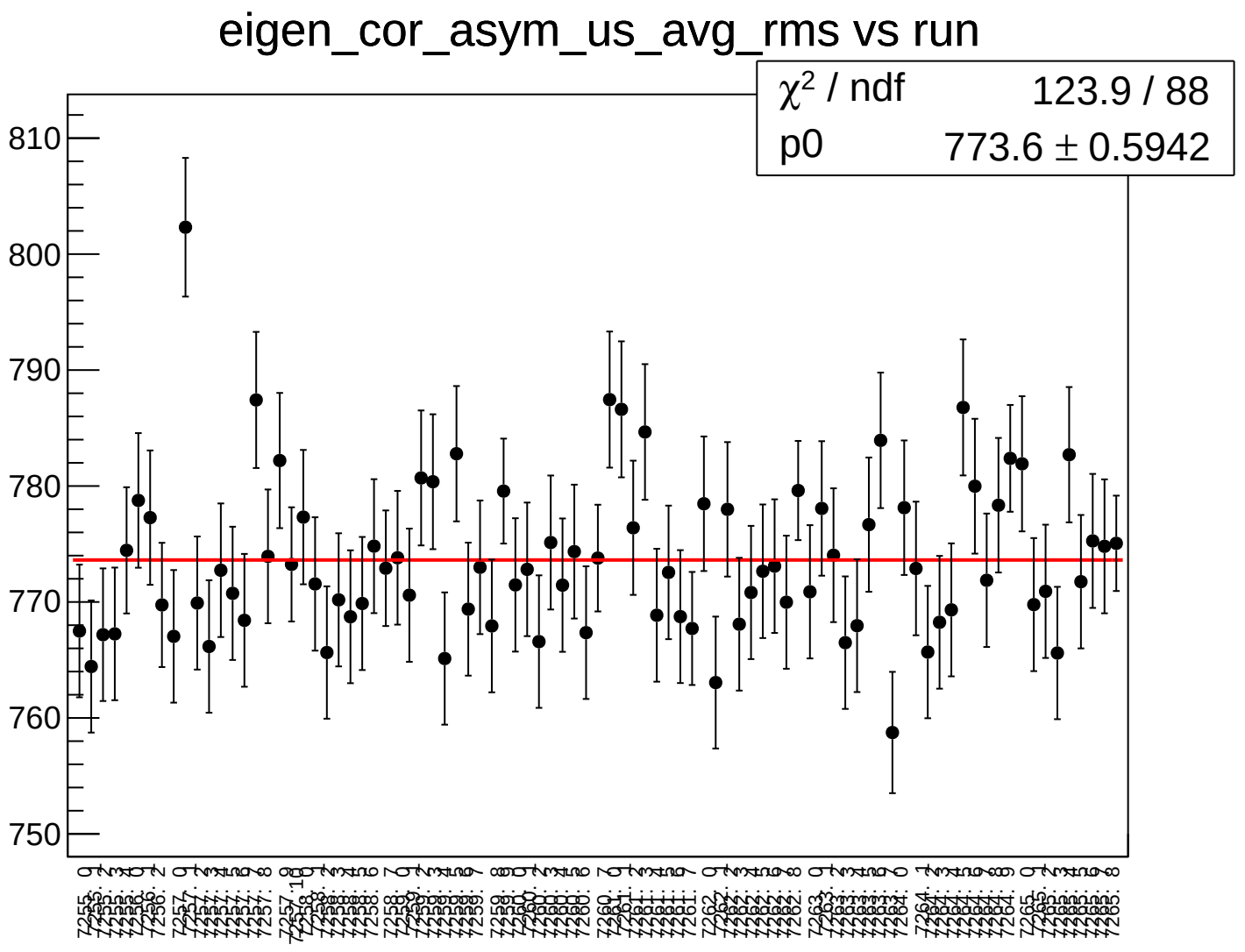

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 85.84 / 88
p0 1038 ± 1538
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 759.9
Std Dev 0
2
1
0
−1
−2
−3

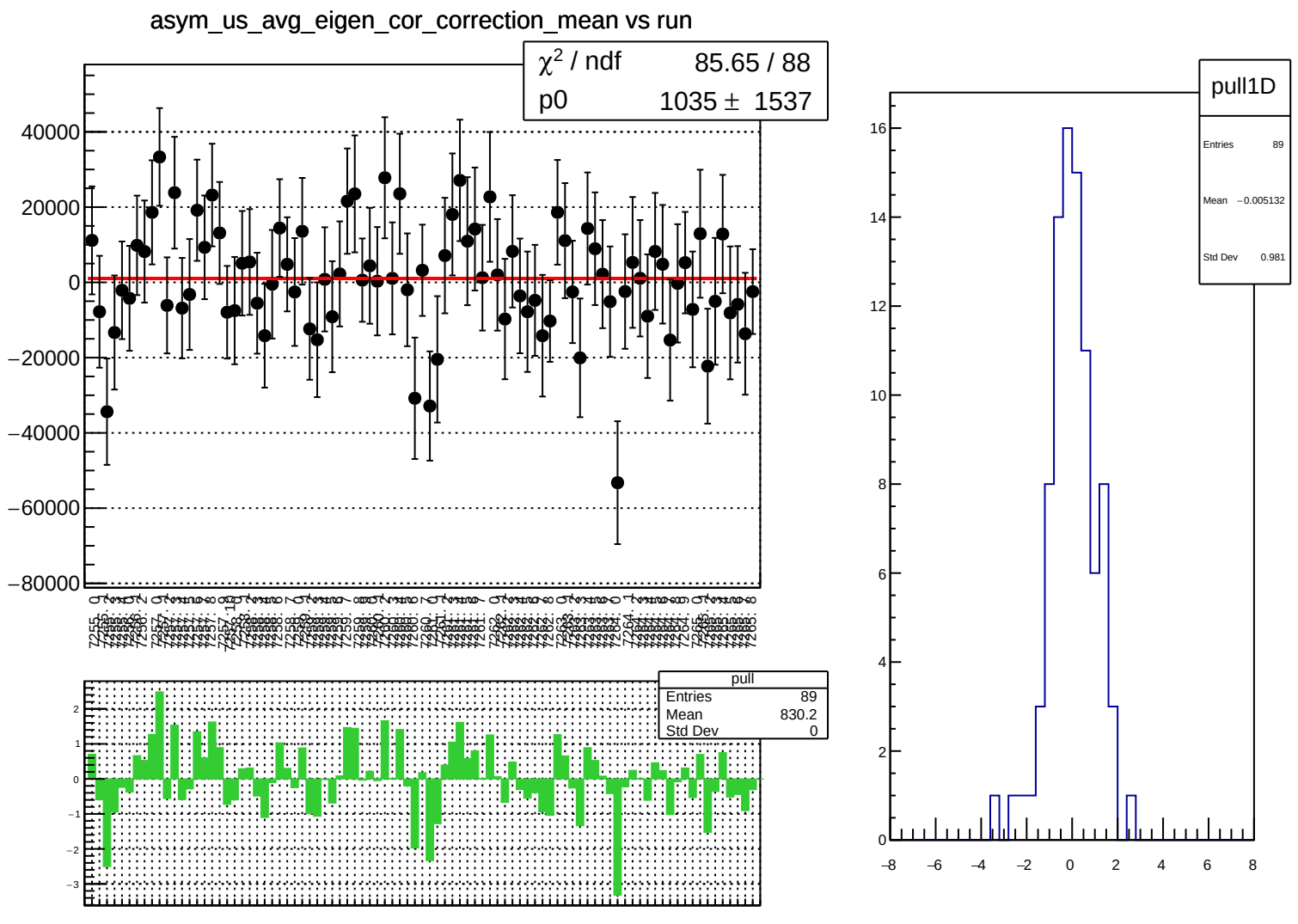

pull1D
Entries 89
Mean −0.005886
Std Dev 0.9821
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

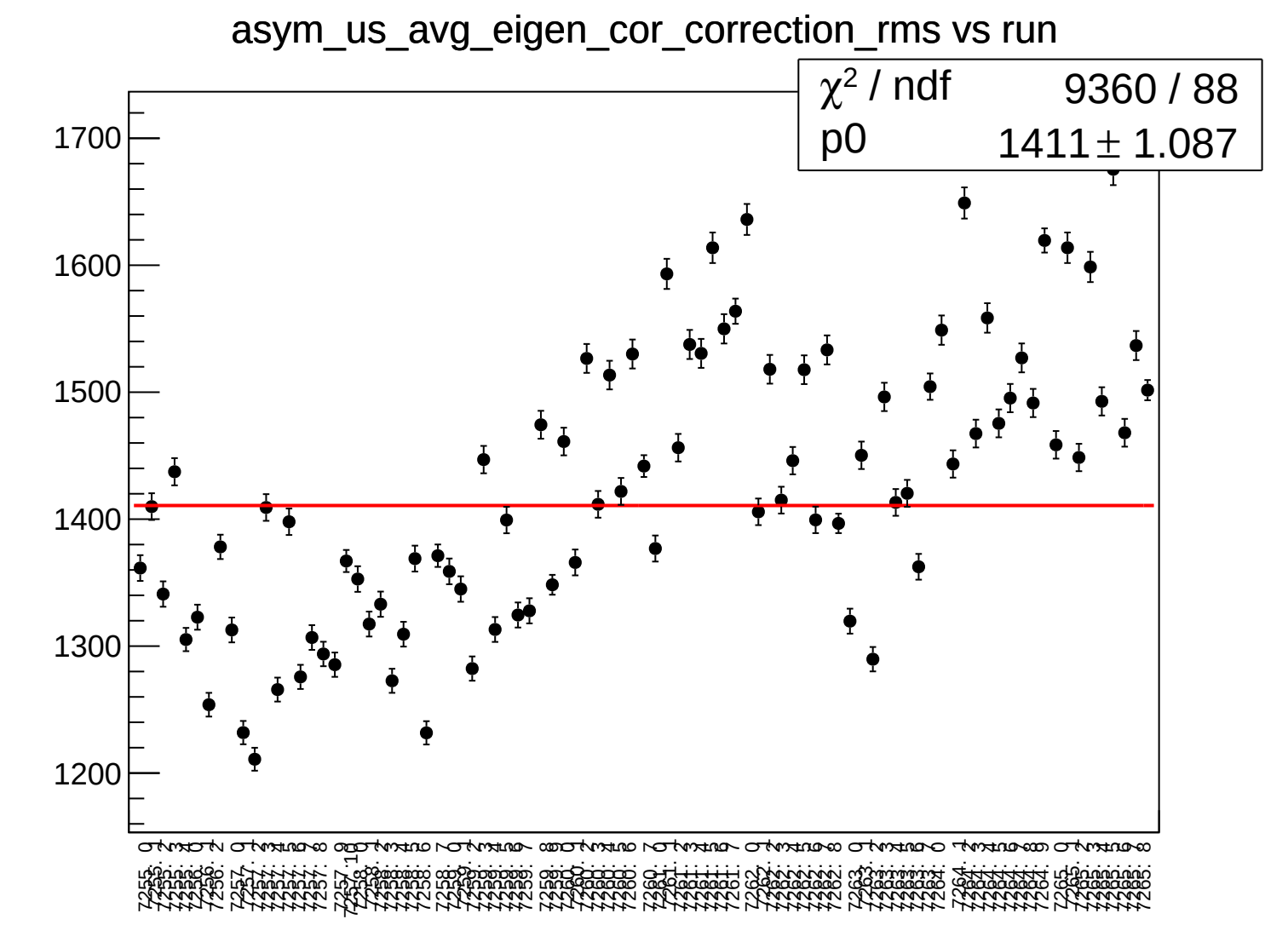

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 9357 / 88
p0 1412 ± 1.087
1700
1600
1500
1400
1300
1200

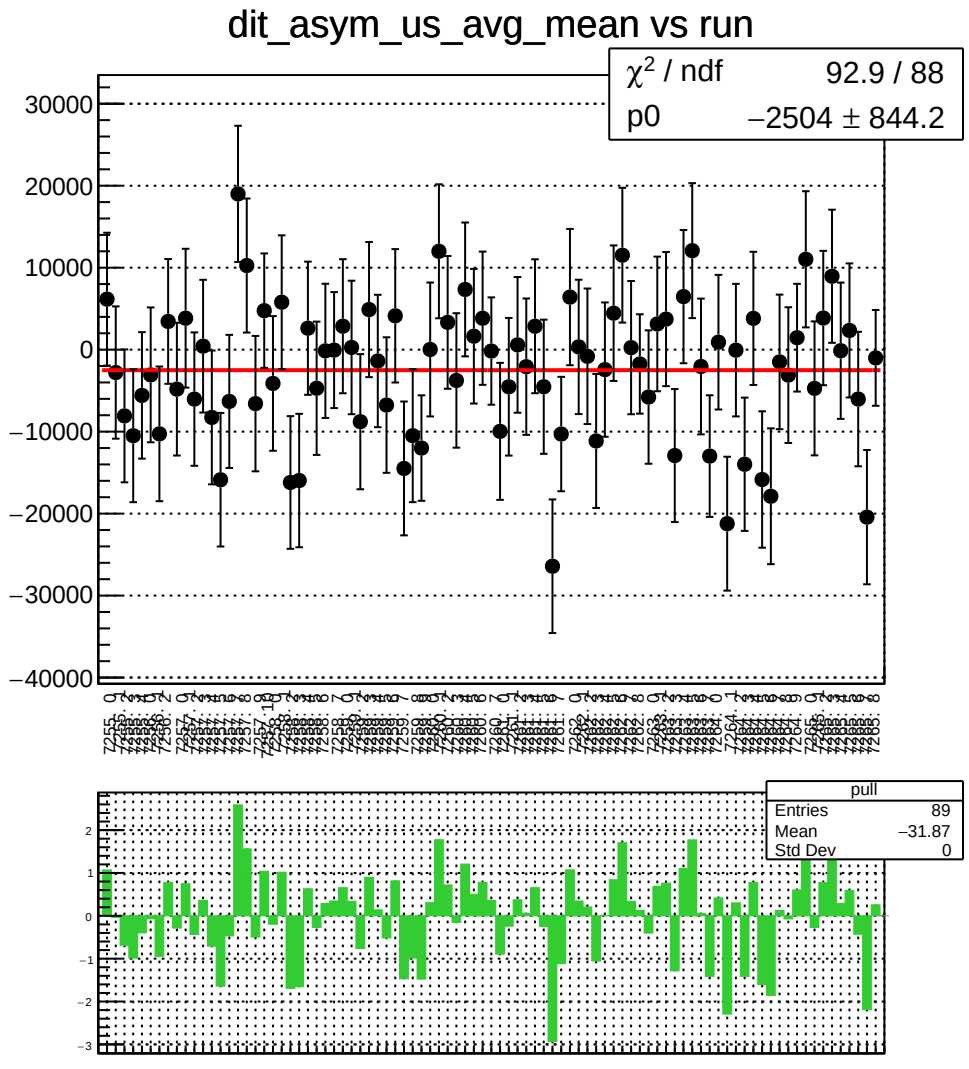

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 95.5 / 88
p0 −2486 ± 840.4
pull
Entries 89
Mean 187.5
Std Dev 0

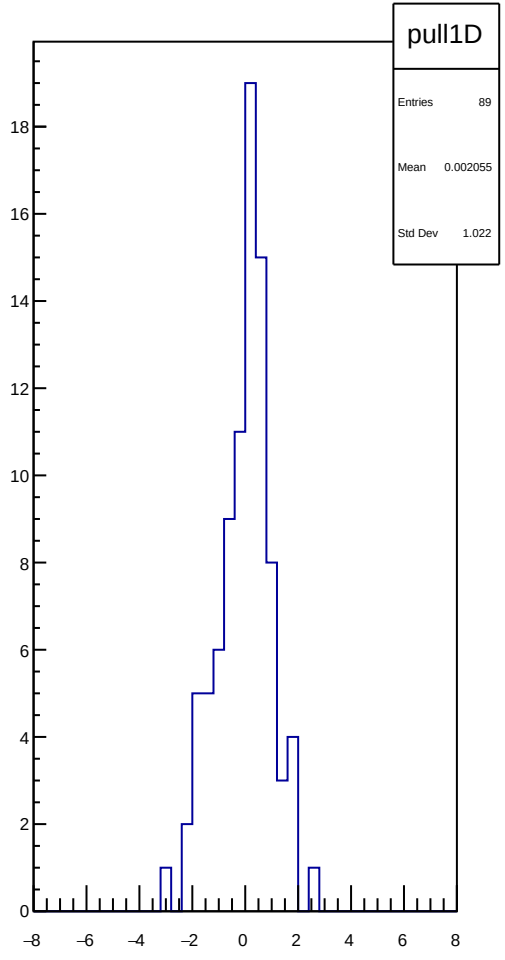

pull1D
Entries 89
Mean 0.001097
Std Dev 1.036

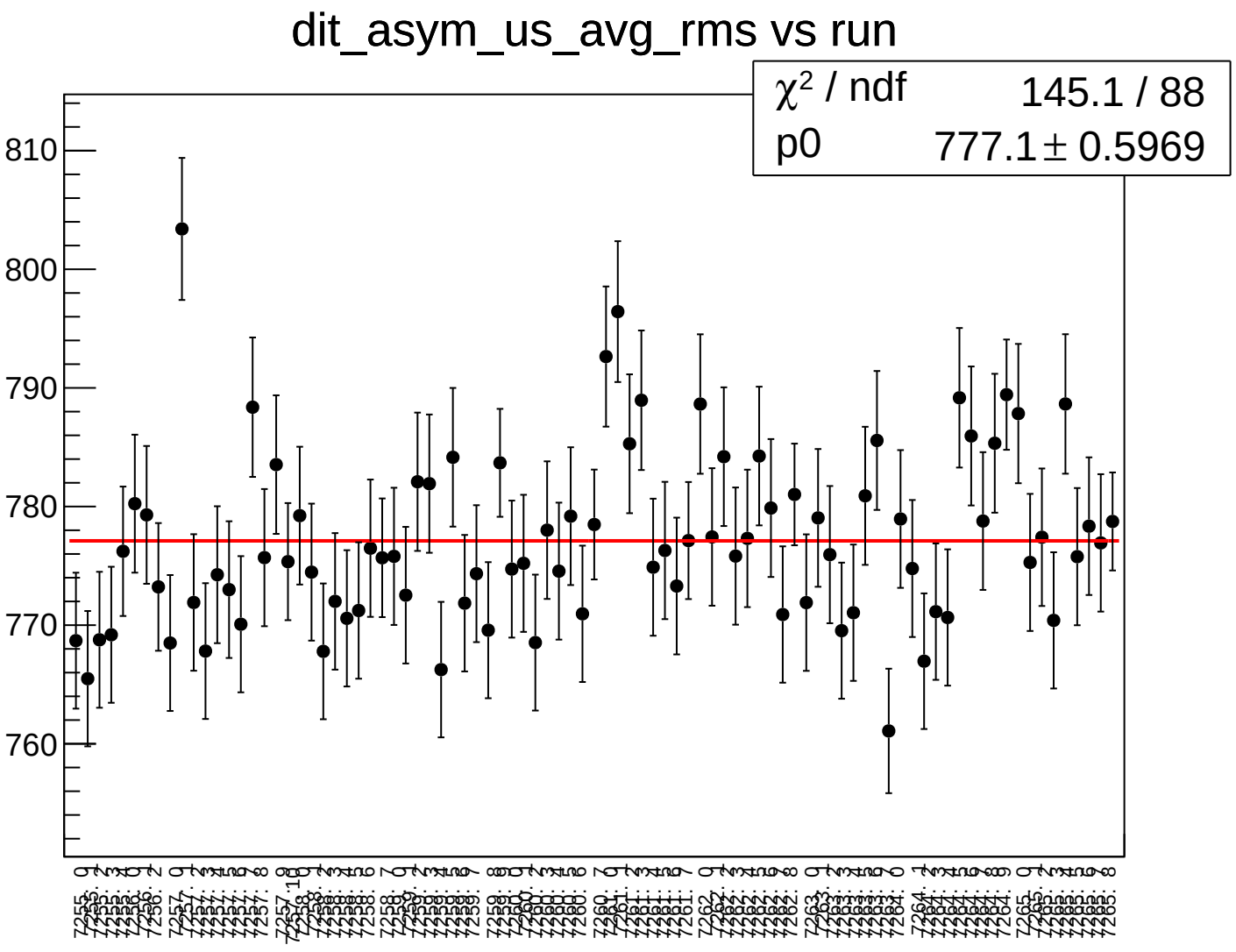

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 123.9 / 88
p0 773.6 ± 0.5942
810
800
790
780
770
760
750

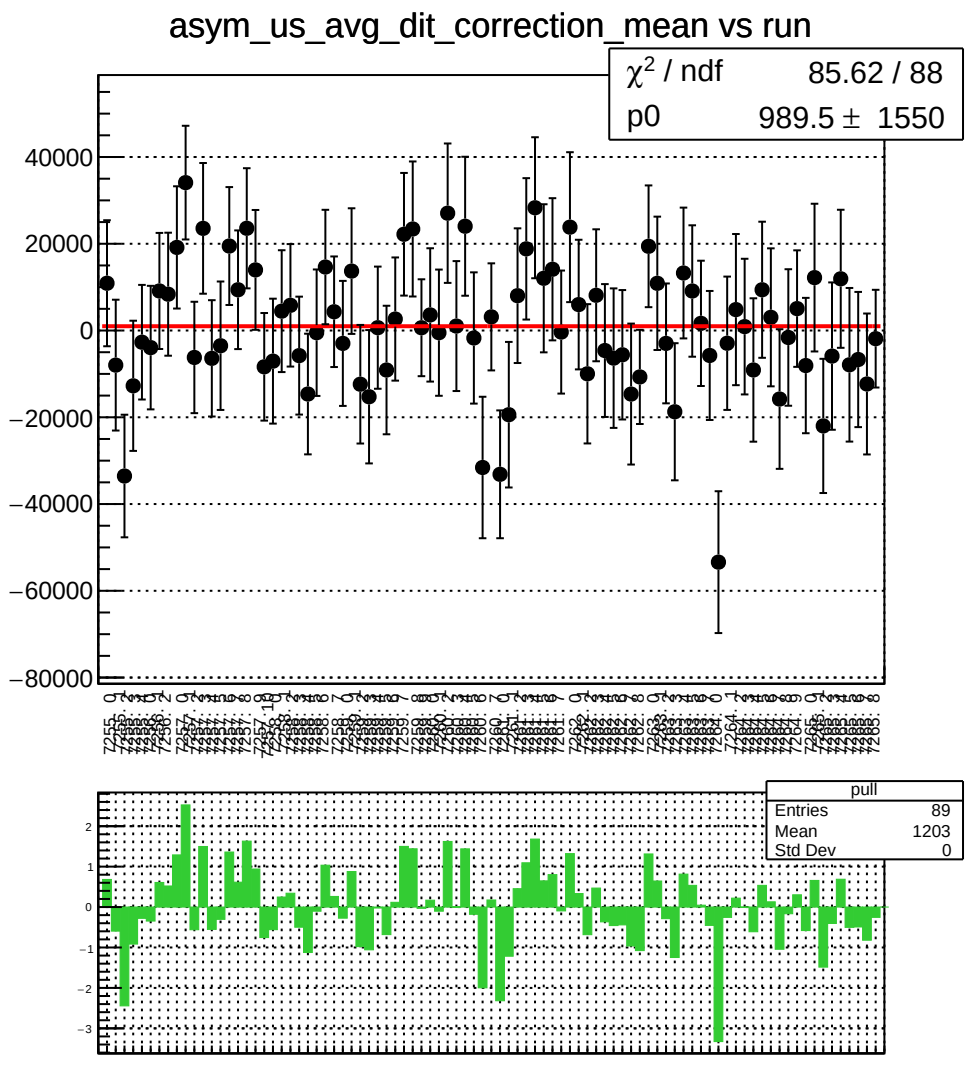

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.65 / 88
p0 1035 ± 1537
pull
Entries 89
Mean 830.2
Std Dev 0
pull1D
Entries 89
Mean −0.005132
Std Dev 0.981

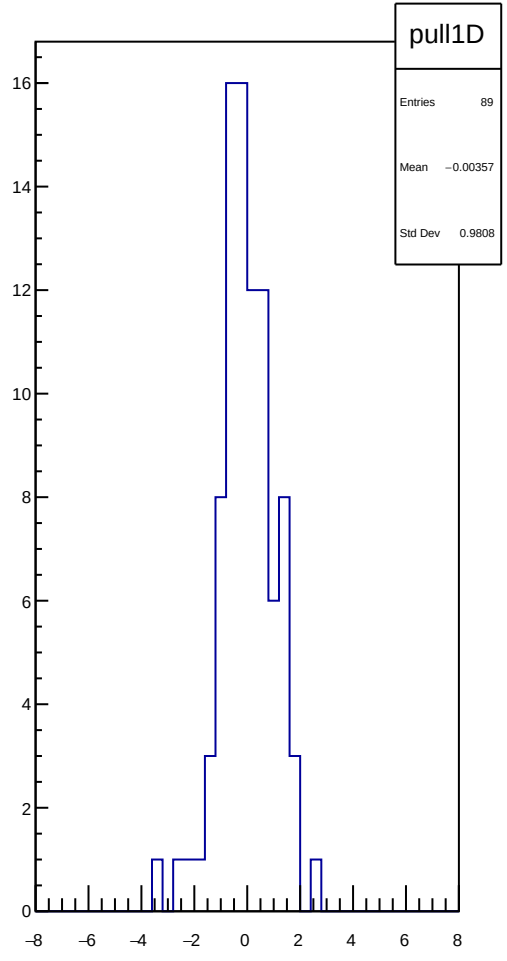

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 9360 / 88
p0 1411 ± 1.087
1700
1600
1500
1400
1300
1200

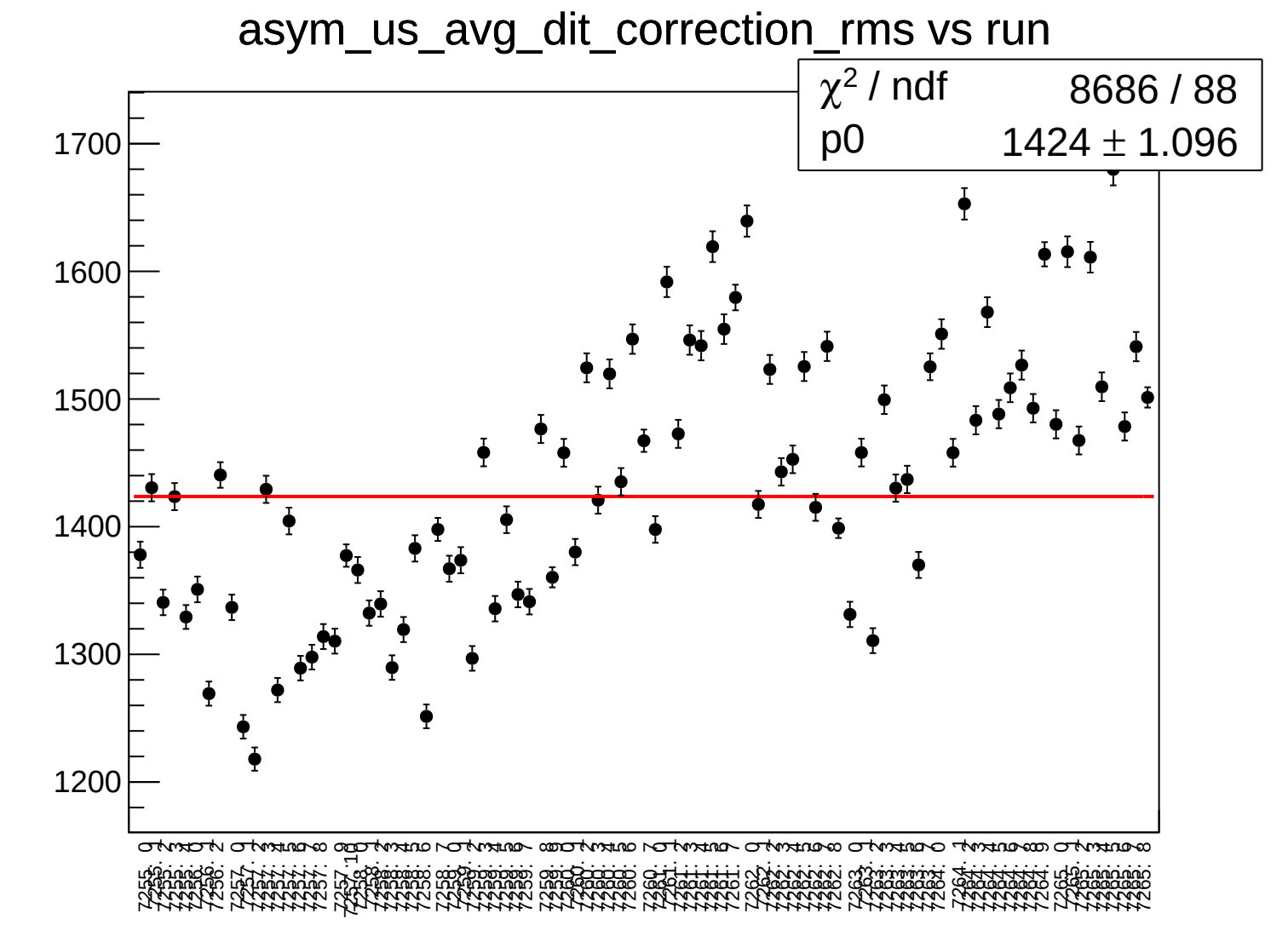

dit_asym_us_avg_mean vs run
χ² / ndf 92.9 / 88
p0 −2504 ± 844.2
pull
Entries 89
Mean −31.87
Std Dev 0

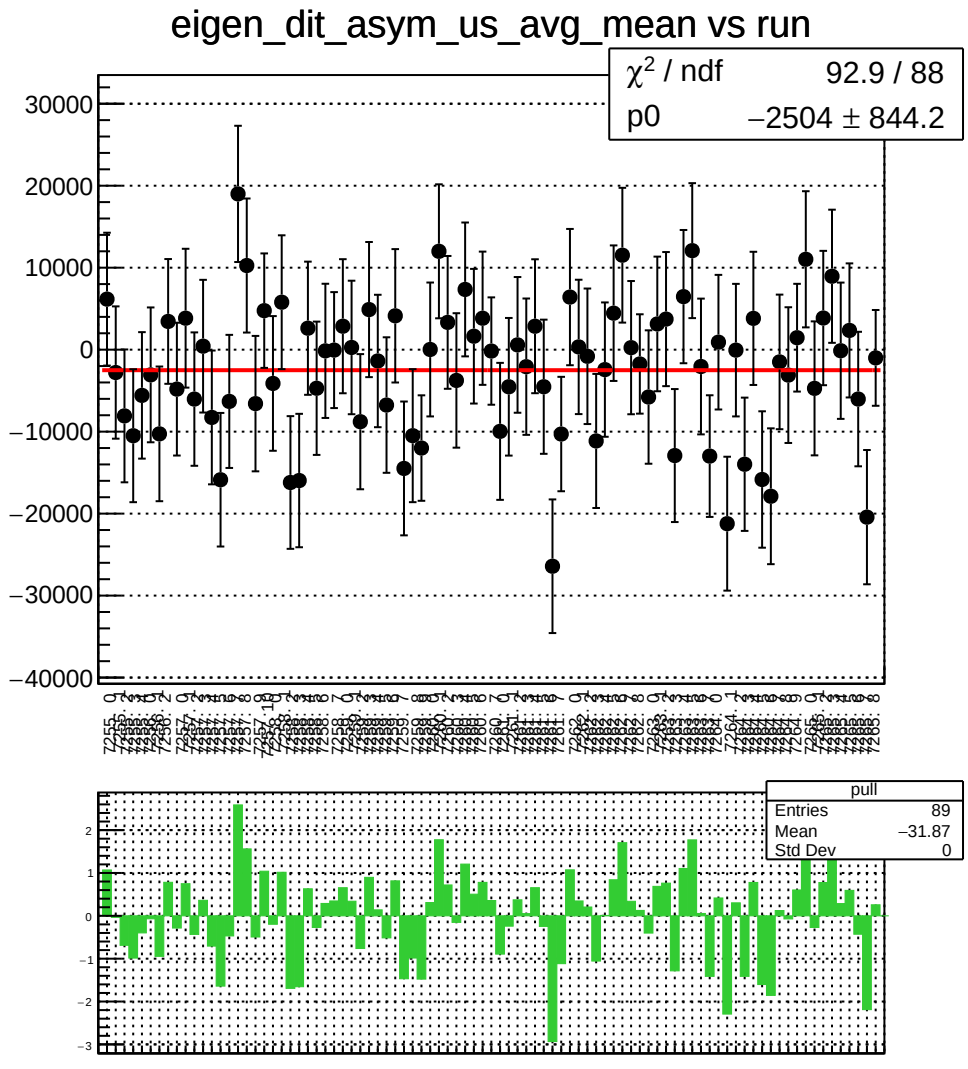

pull1D
Entries 89
Mean 0.002055
Std Dev 1.022

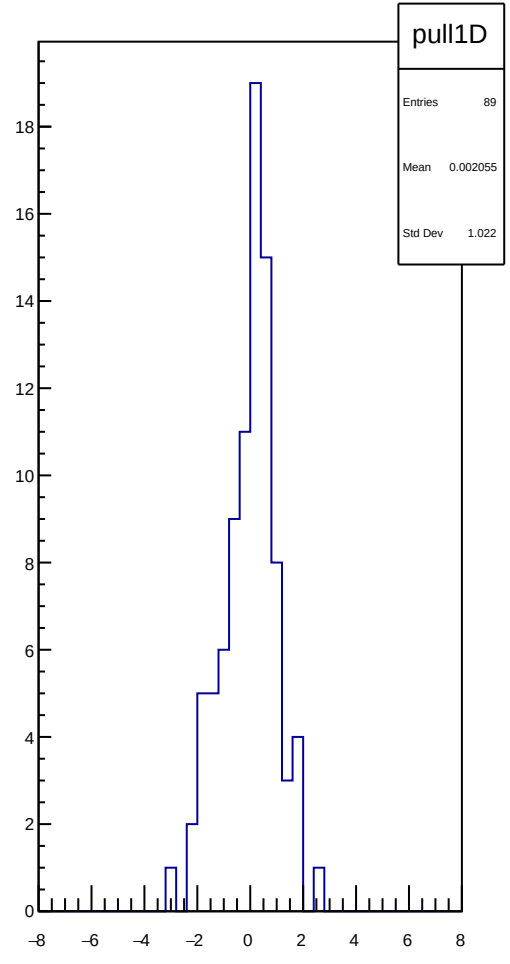

dit_asym_us_avg_rms vs run
χ² / ndf 145.1 / 88
p0 777.1 ± 0.5969
810
800
790
780
770
760

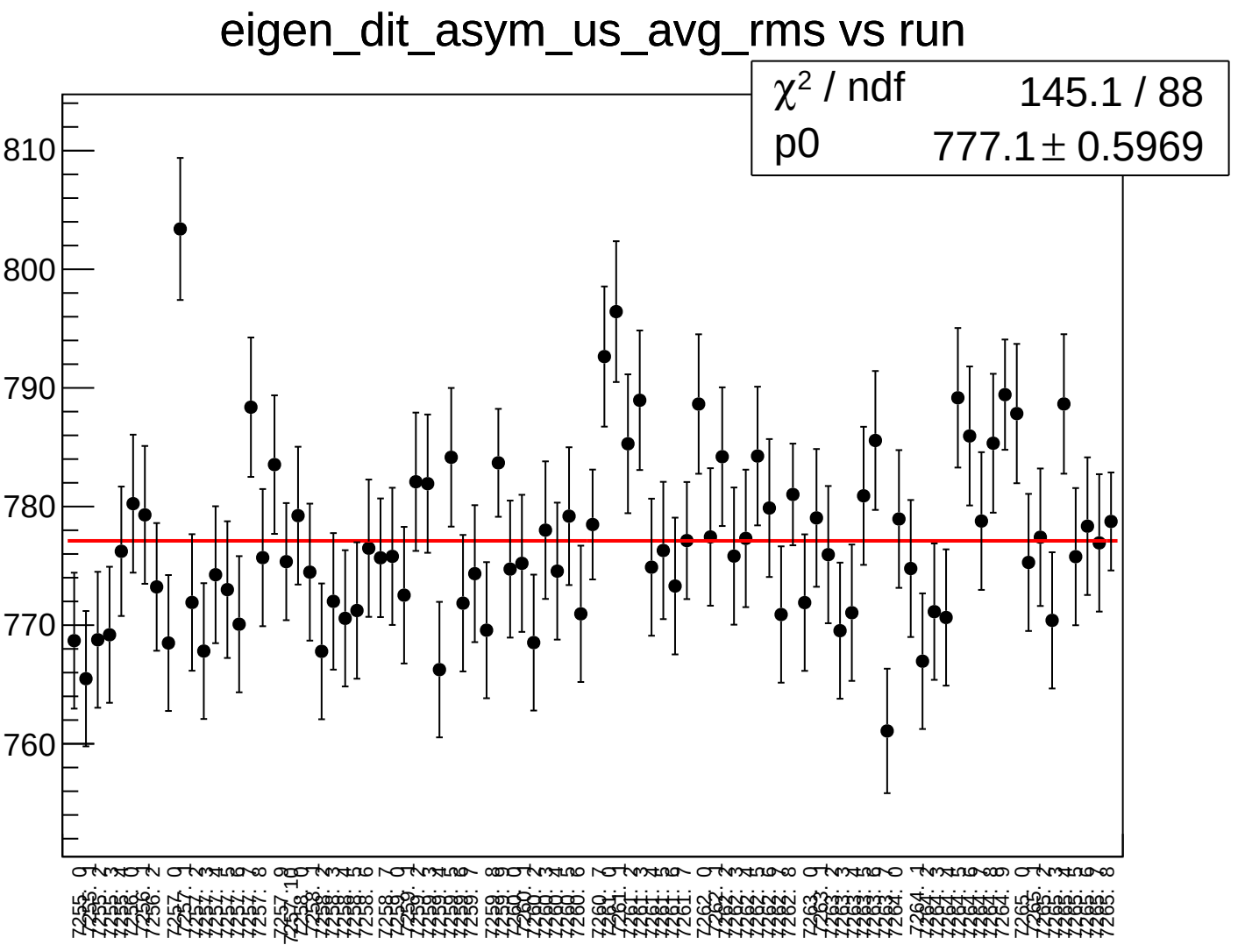

asym_us_avg_dit_correction_mean vs run
χ² / ndf 85.62 / 88
p0 989.5 ± 1550
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 1203
Std Dev 0
2
1
0
−1
−2
−3

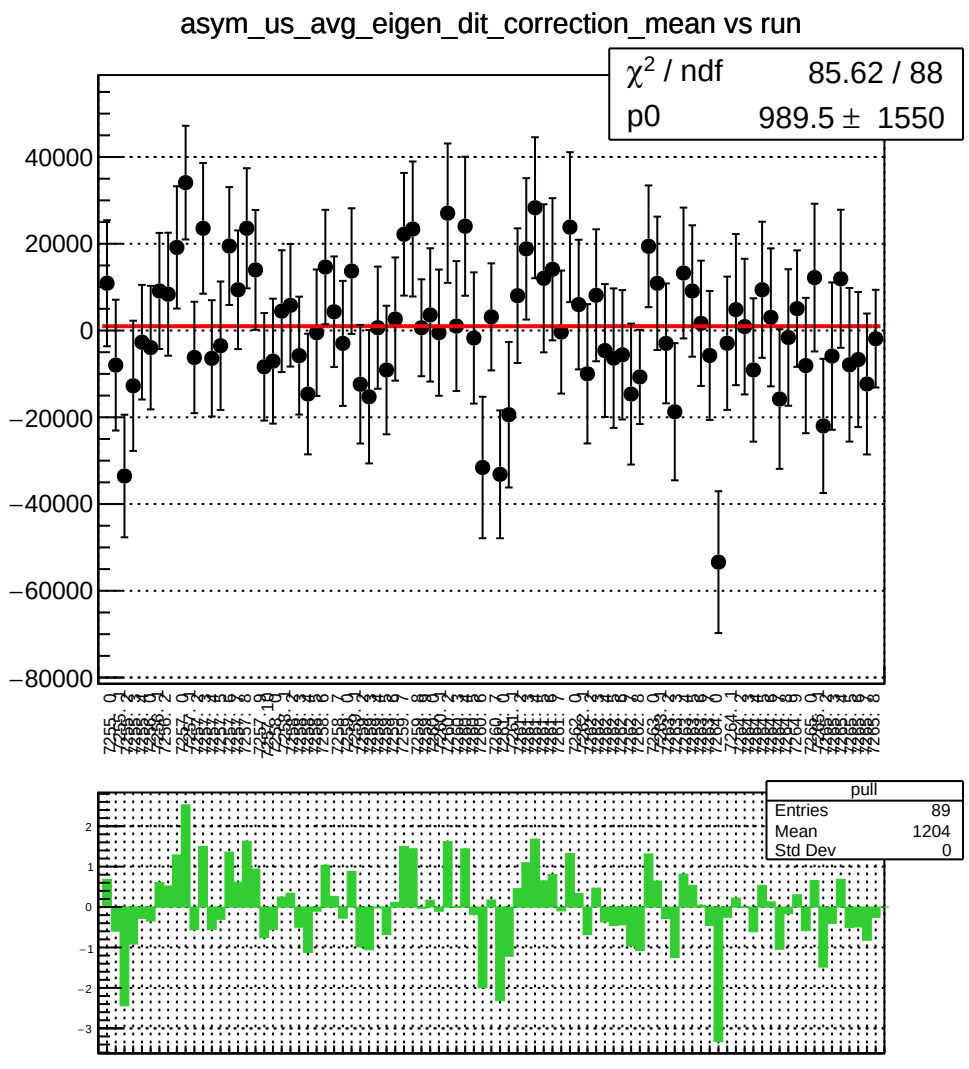

pull1D
Entries 89
Mean −0.00357
Std Dev 0.9808
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

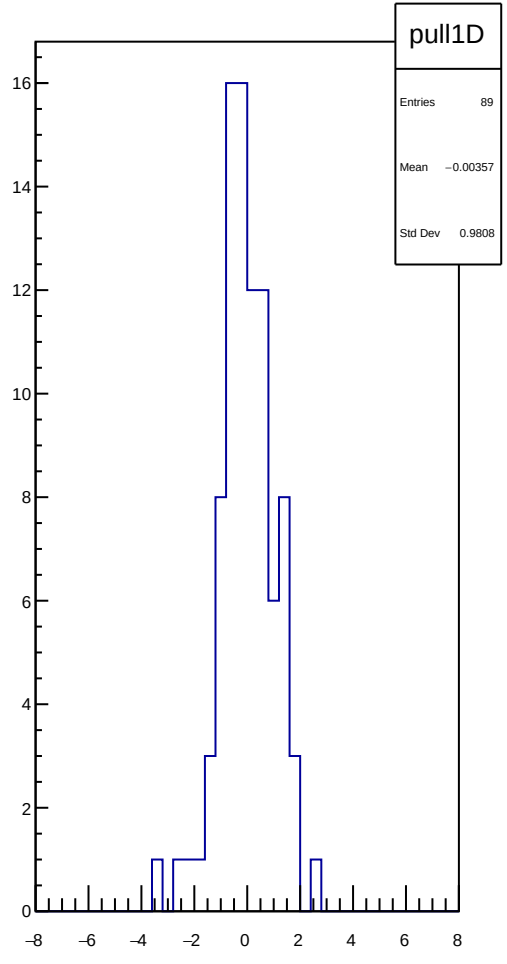

asym_us_avg_dit_correction_rms vs run
χ² / ndf 8686 / 88
p0 1424 ± 1.096
1700
1600
1500
1400
1300
1200

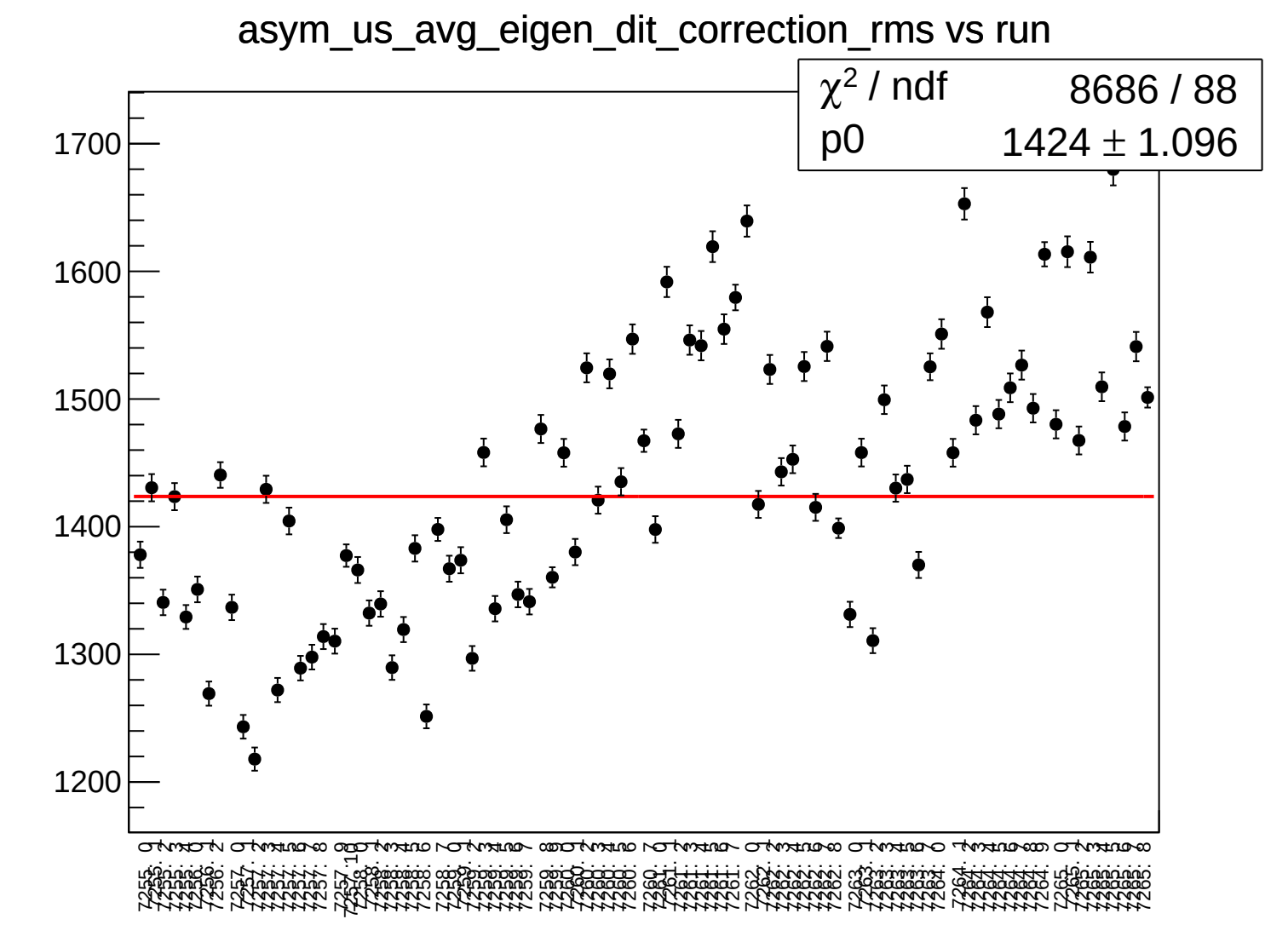

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 92.9 / 88
p0 −2504 ± 844.2
pull
Entries 89
Mean −31.87
Std Dev 0

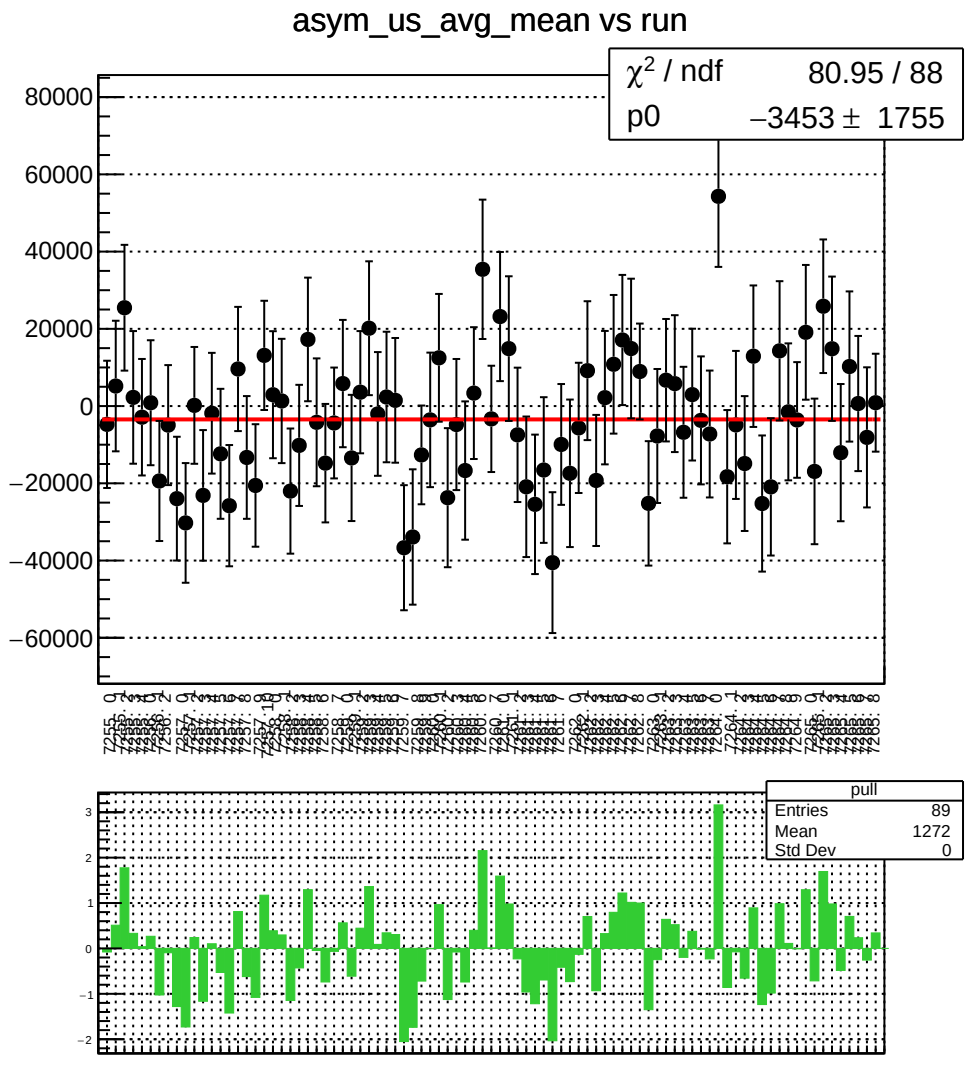

pull1D
Entries 89
Mean 0.002055
Std Dev 1.022

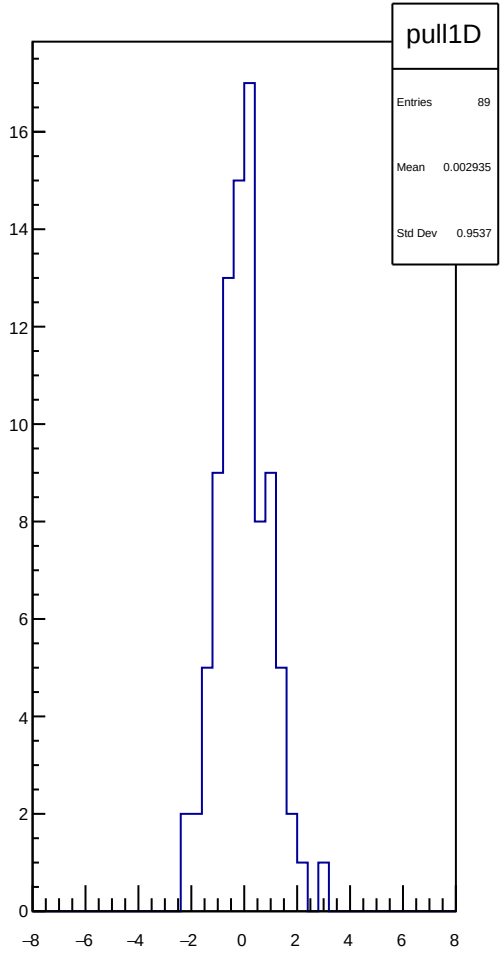

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 145.1 / 88
p0 777.1 ± 0.5969
810
800
790
780
770
760

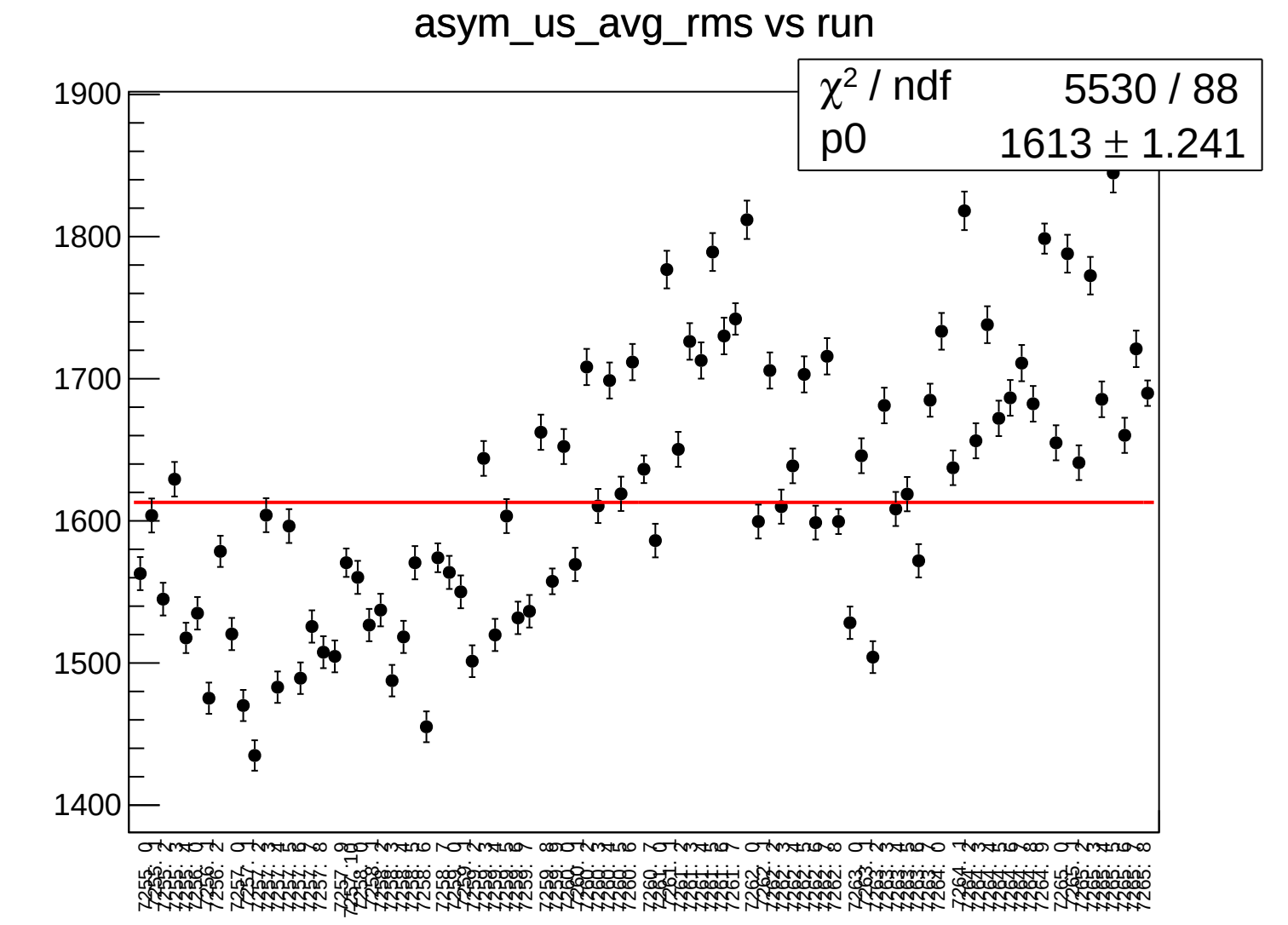

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.62 / 88
p0 989.5 ± 1550
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 1204
Std Dev 0
2
1
0
−1
−2
−3

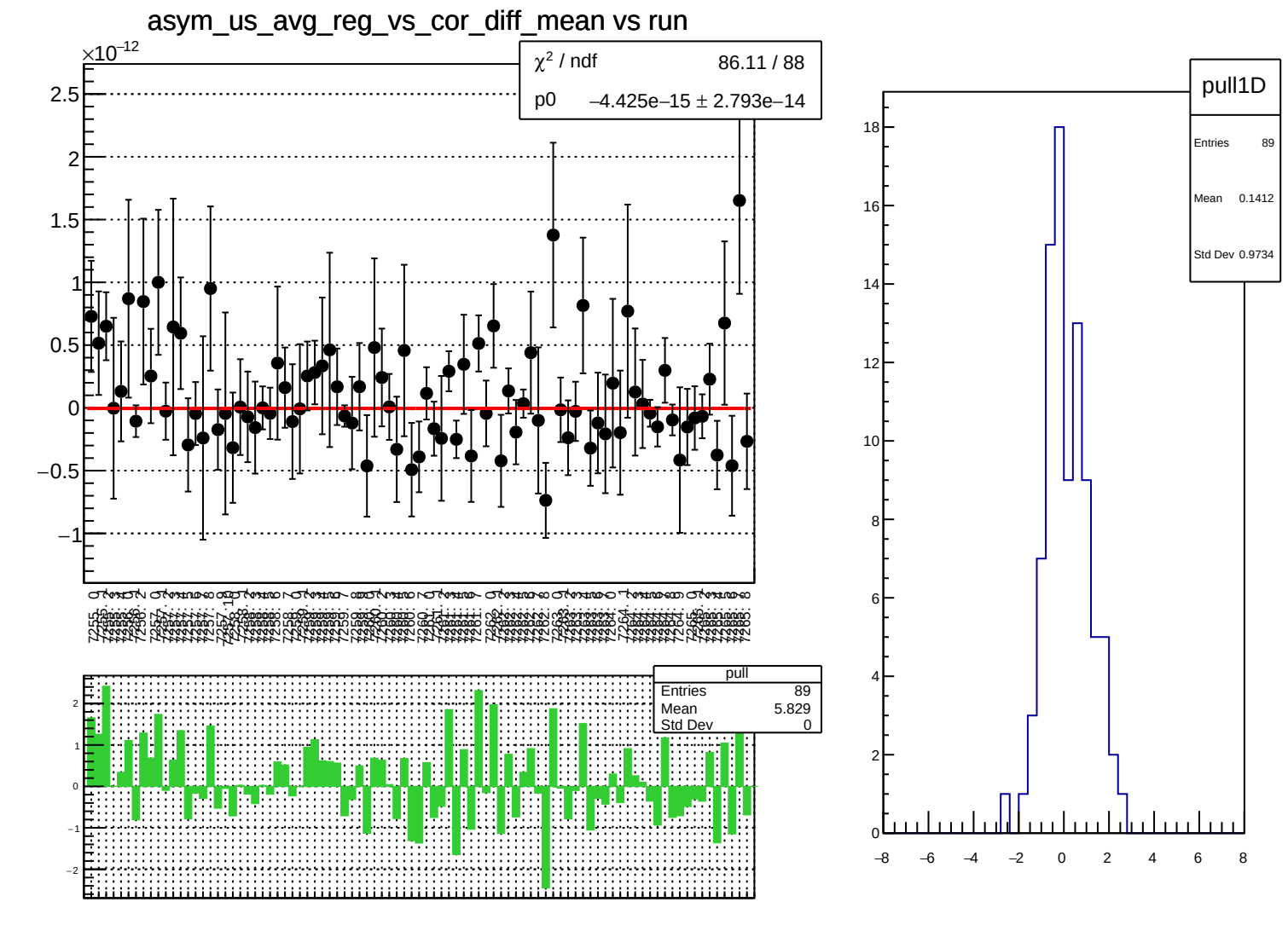

pull1D
Entries 89
Mean −0.00357
Std Dev 0.9808
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

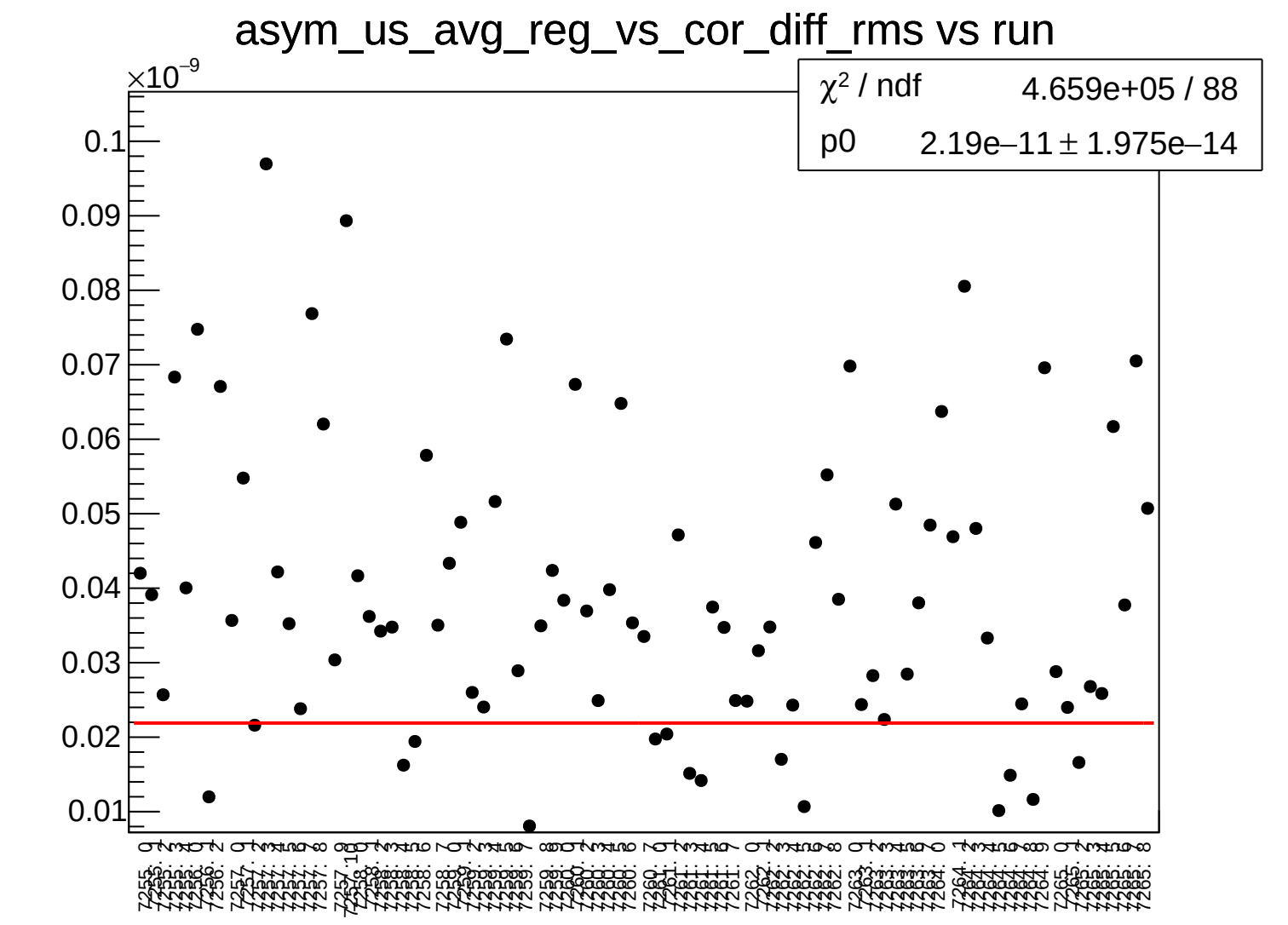

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 8686 / 88
p0 1424 ± 1.096
1700
1600
1500
1400
1300
1200

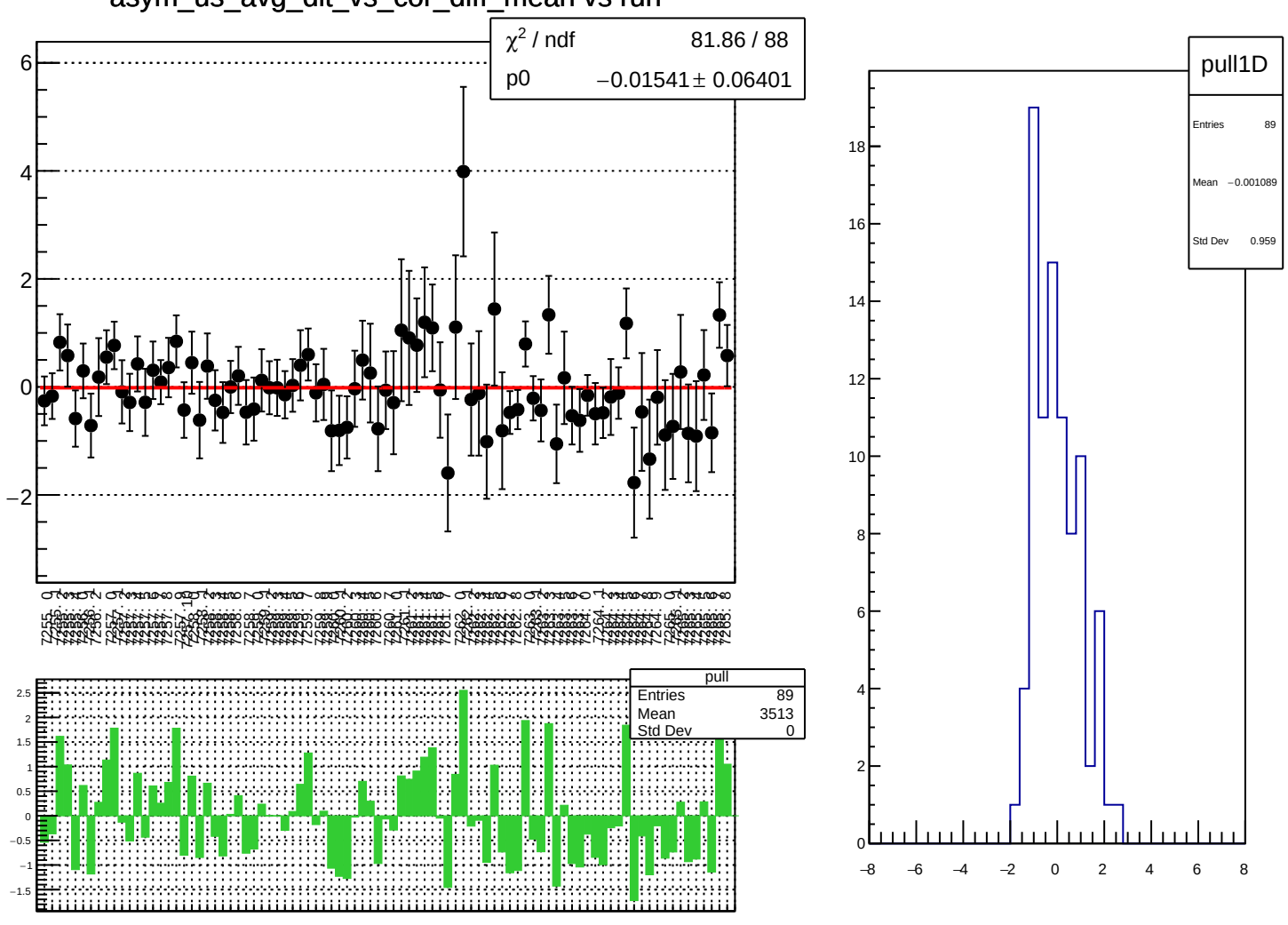

asym_us_avg_mean vs run
χ² / ndf 80.95 / 88
p0 −3453 ± 1755
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 1272
Std Dev 0
3
2
1
0
−1
−2

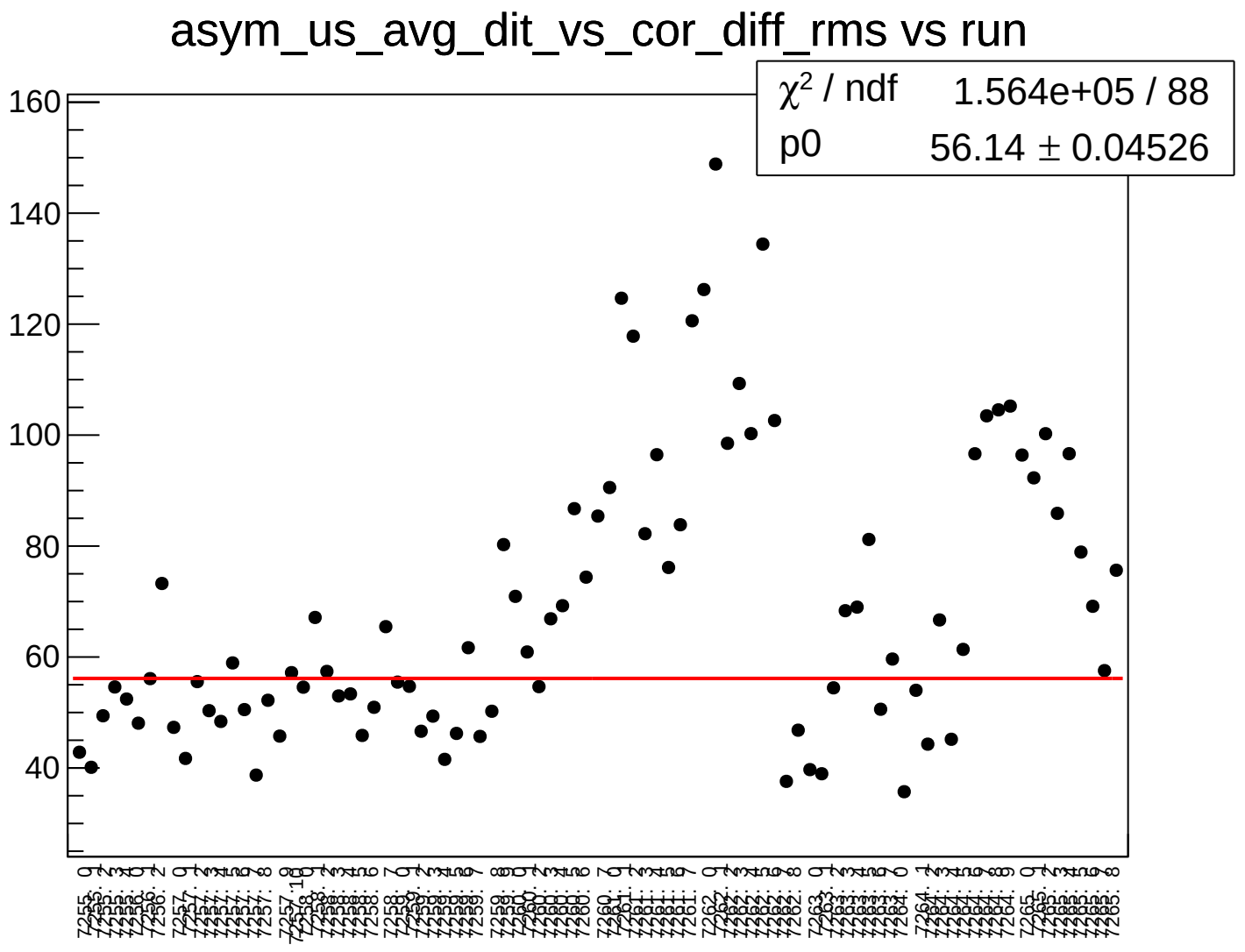

pull1D
Entries 89
Mean 0.002935
Std Dev 0.9537
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

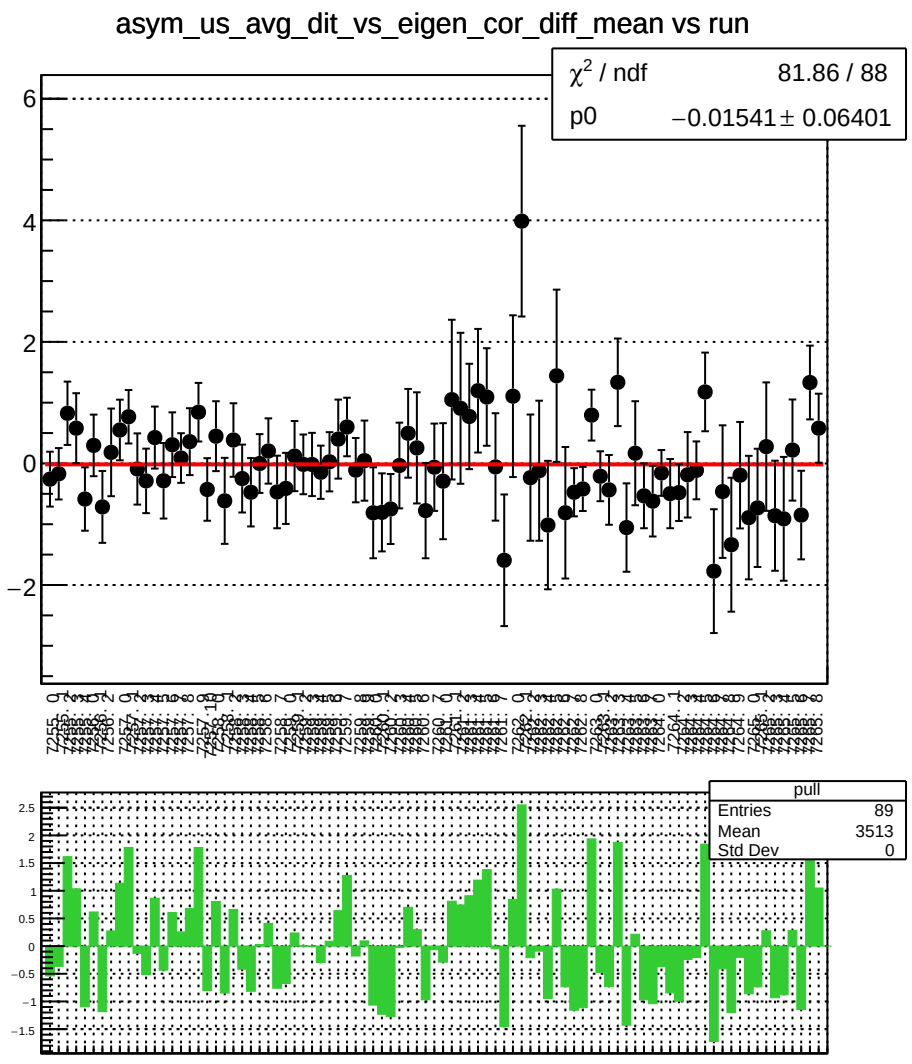

asym_us_avg_rms vs run
χ^2 / ndf 5530 / 88
p0 1613 ± 1.241
1900
1800
1700
1600
1500
1400

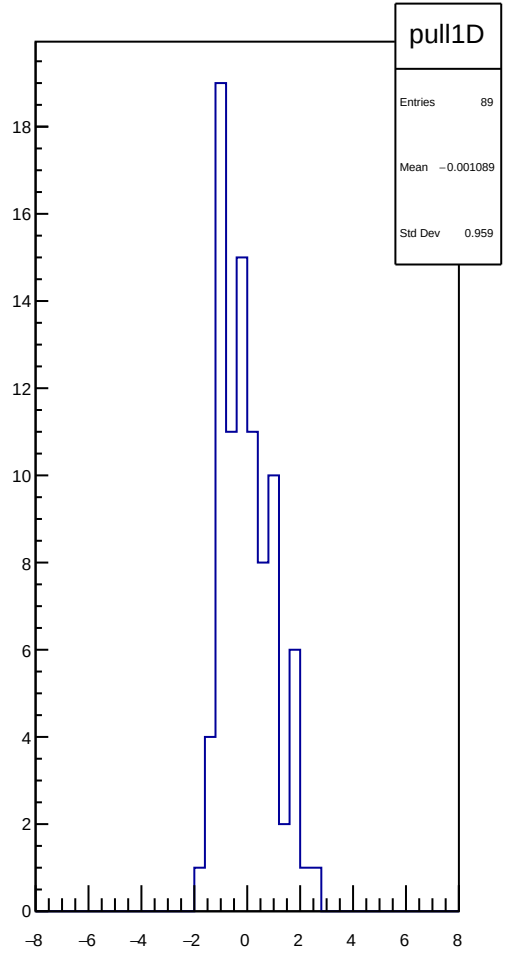

asym_us_avg_reg_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 86.11 / 88
p0 −4.425e−15 ± 2.793e−14
pull
Entries 89
Mean 5.829
Std Dev 0
pull1D
Entries 89
Mean 0.1412
Std Dev 0.9734

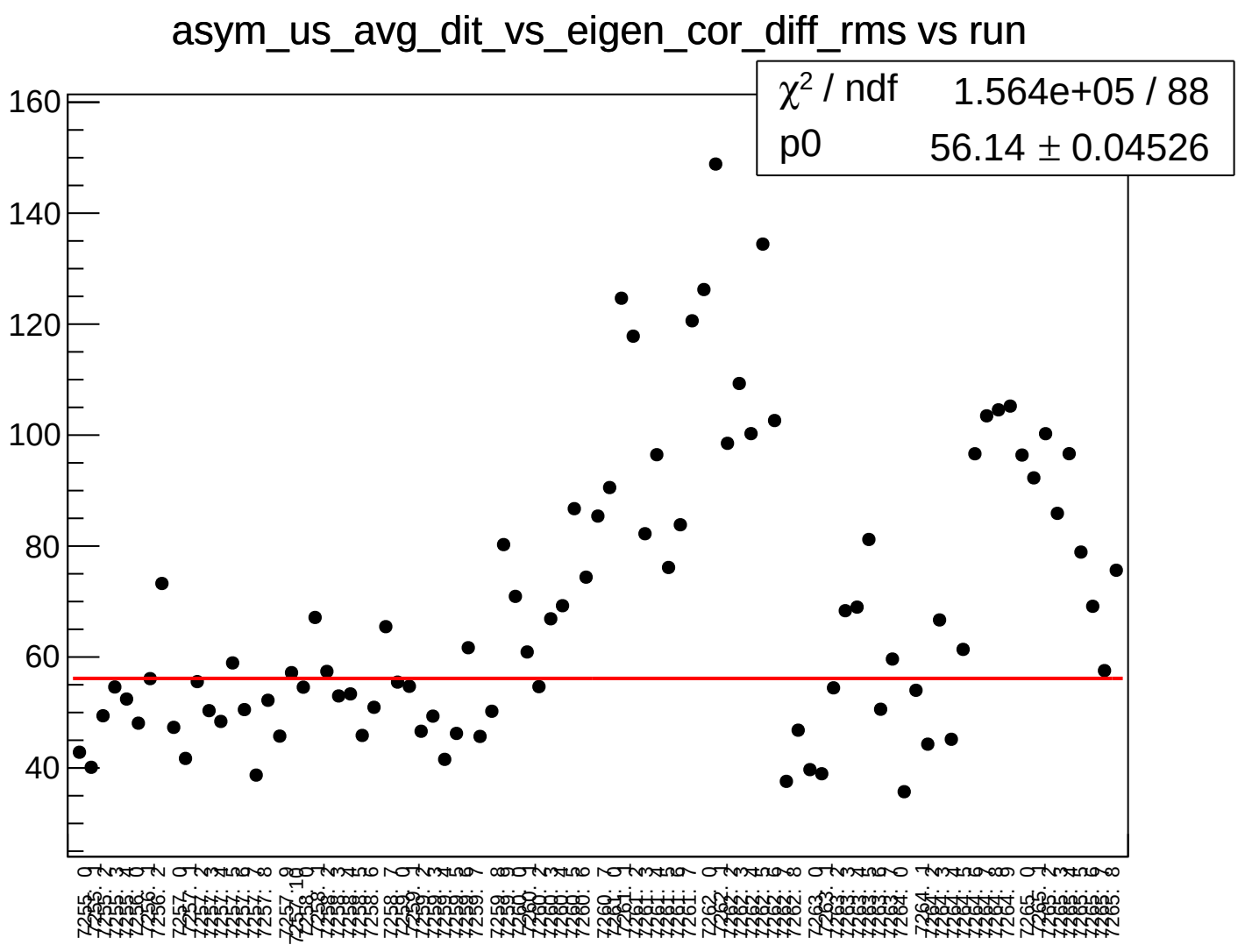

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.659e+05 / 88
p0 2.19e−11 ± 1.975e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

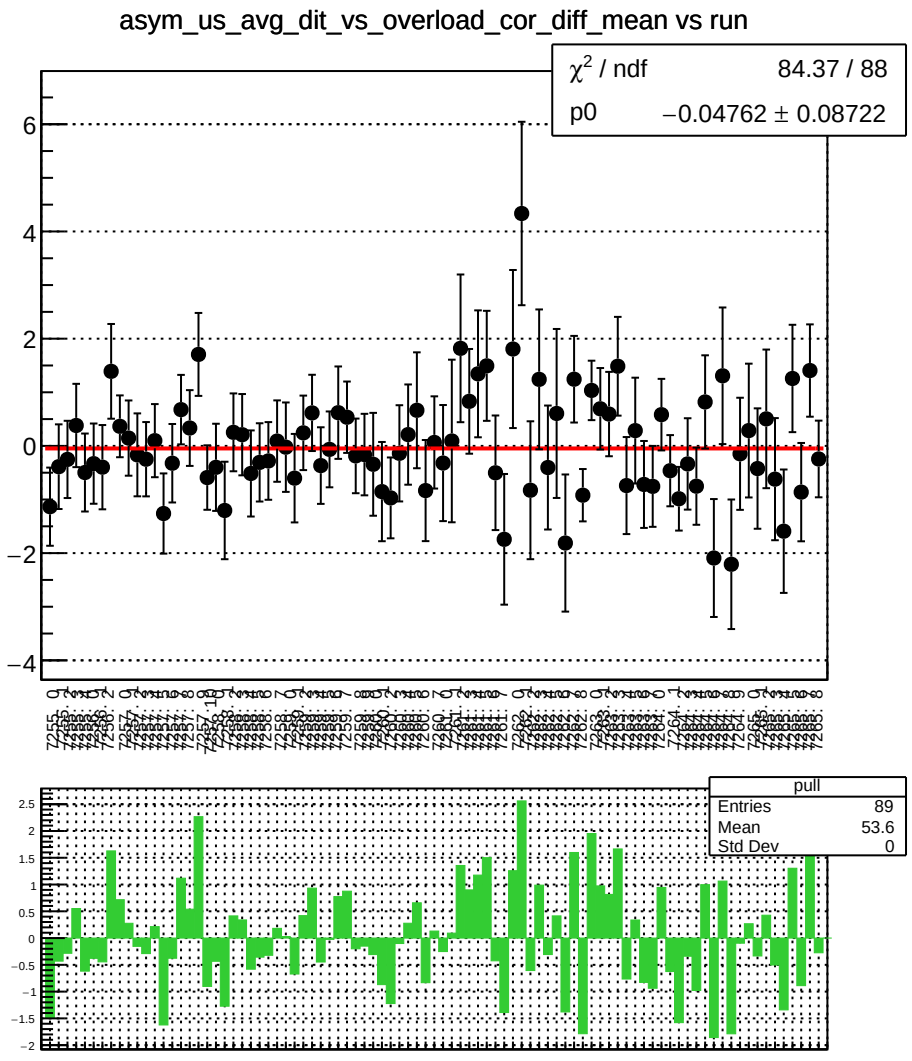

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.86 / 88
p0 −0.01541 ± 0.06401
pull
Entries 89
Mean 3513
Std Dev 0
pull1D
Entries 89
Mean −0.001089
Std Dev 0.959

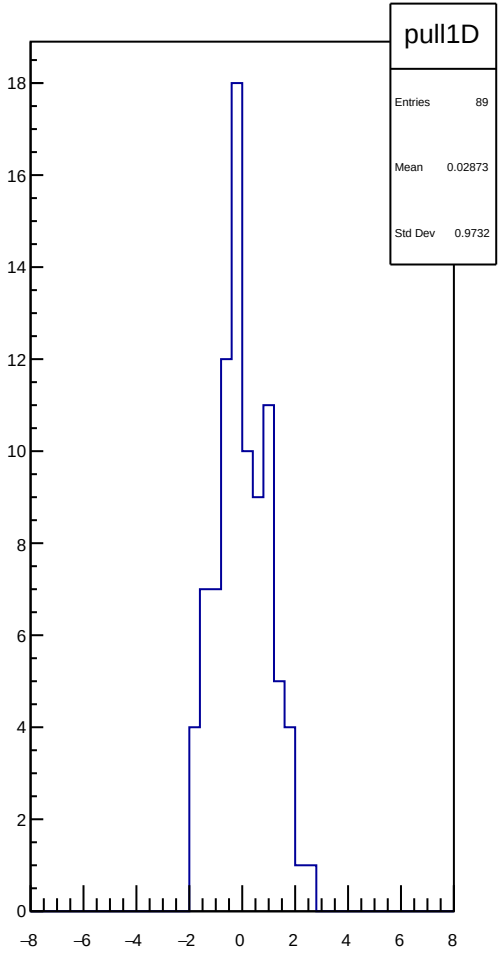

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.564e+05 / 88
p0 56.14 ± 0.04526
160
140
120
100
80
60
40

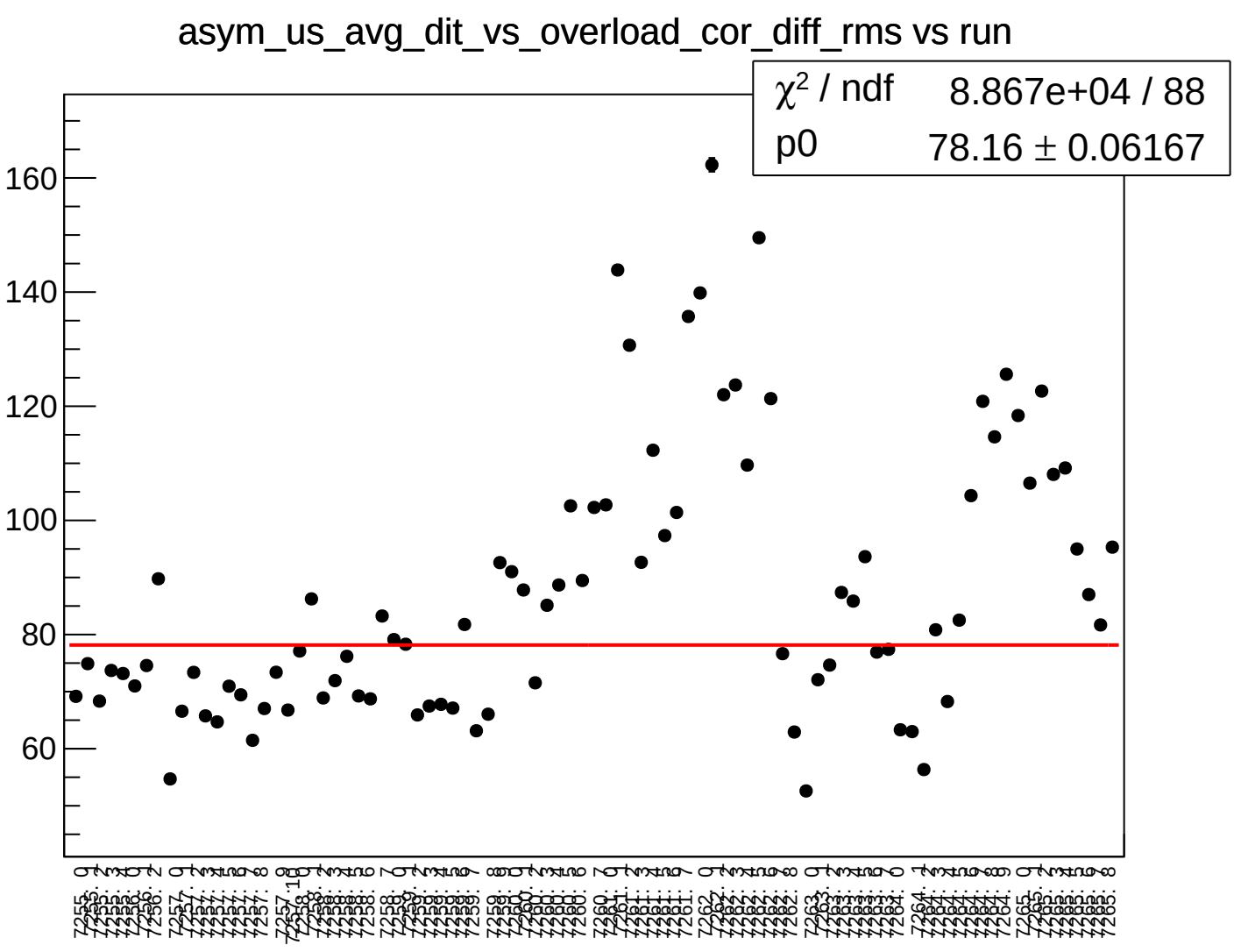

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.86 / 88
p0 −0.01541 ± 0.06401
pull
Entries 89
Mean 3513
Std Dev 0

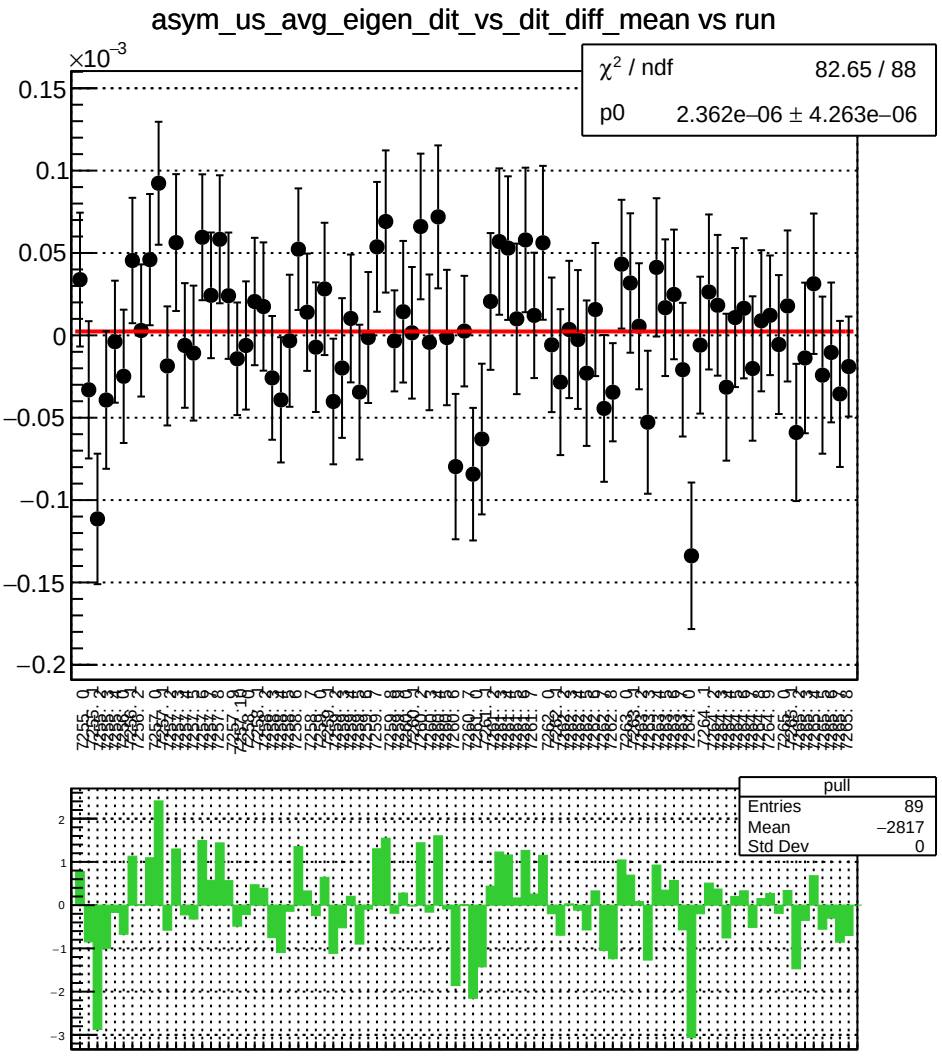

pull1D
Entries 89
Mean −0.001089
Std Dev 0.959

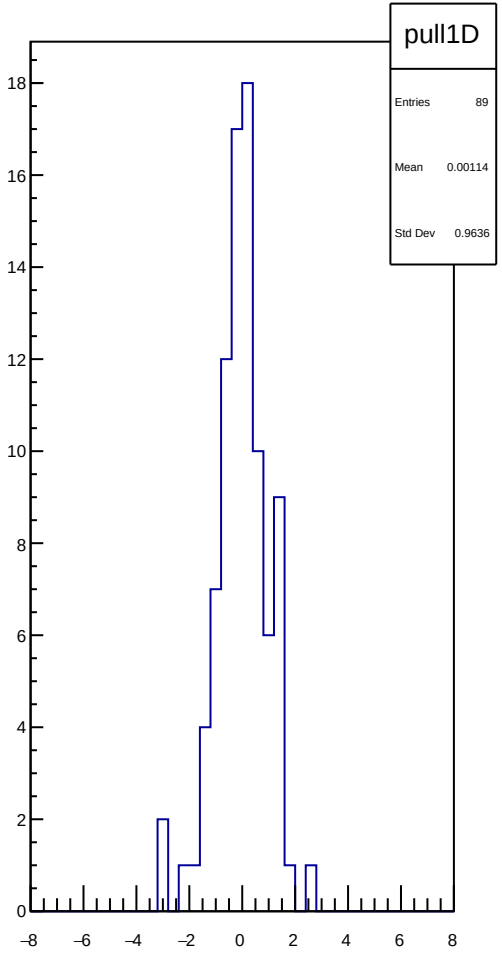

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.564e+05 / 88
p0 56.14 ± 0.04526
160
140
120
100
80
60
40

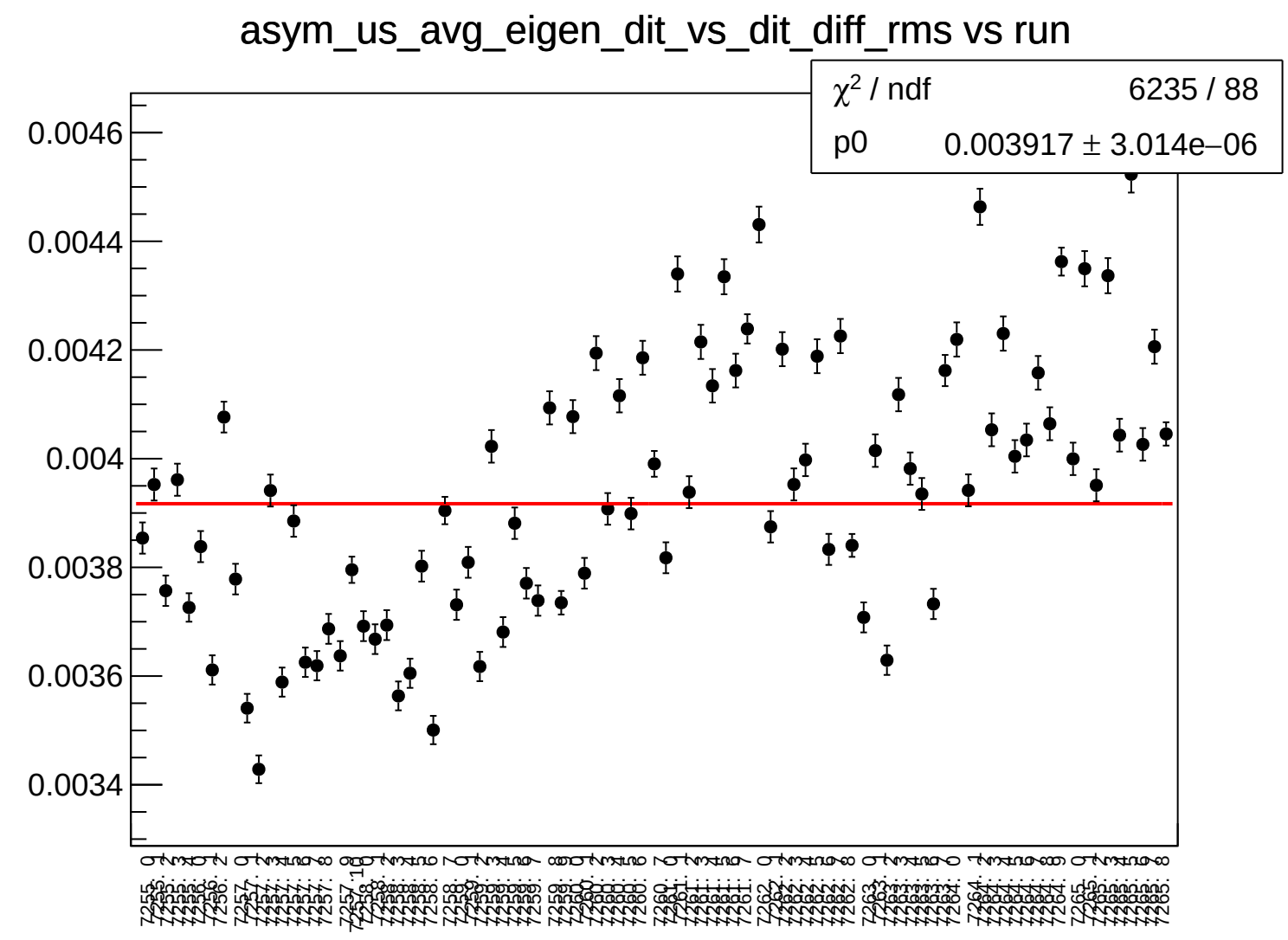

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.37 / 88
p0 −0.04762 ± 0.08722
pull
Entries 89
Mean 53.6
Std Dev 0

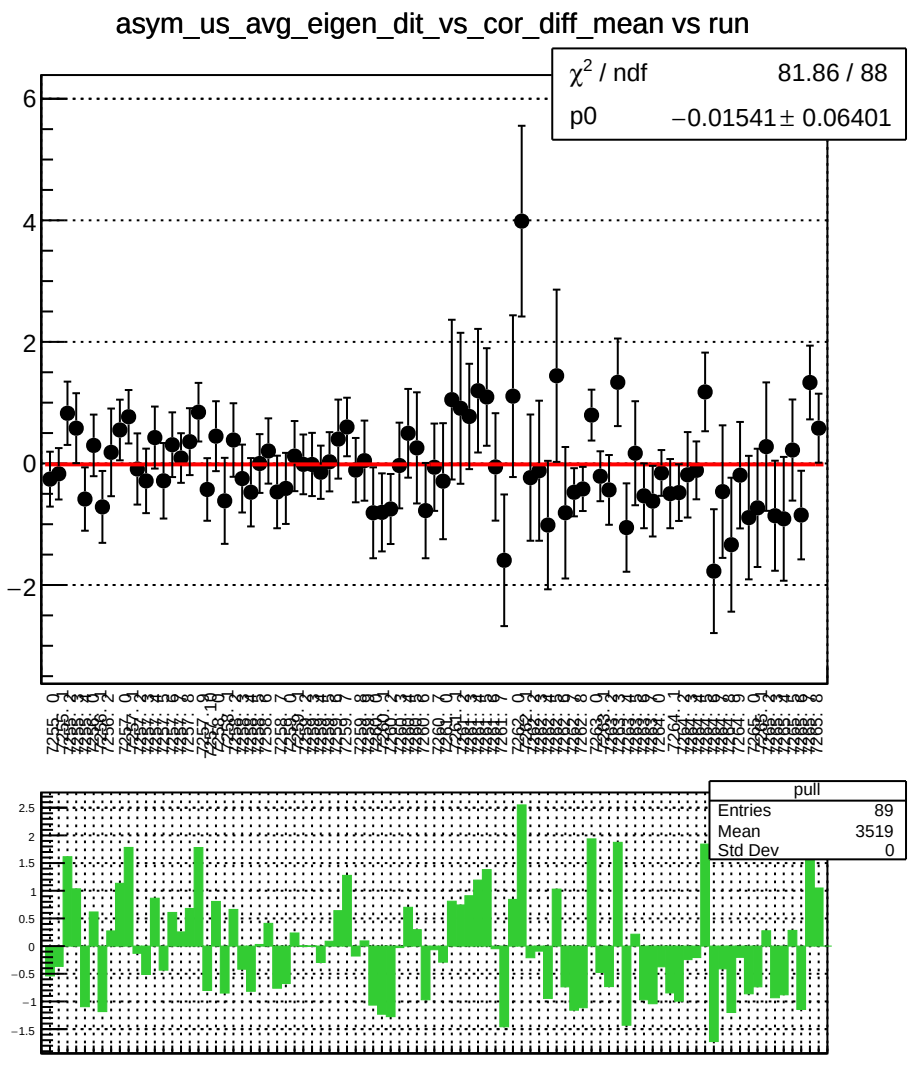

pull1D
Entries 89
Mean 0.02873
Std Dev 0.9732

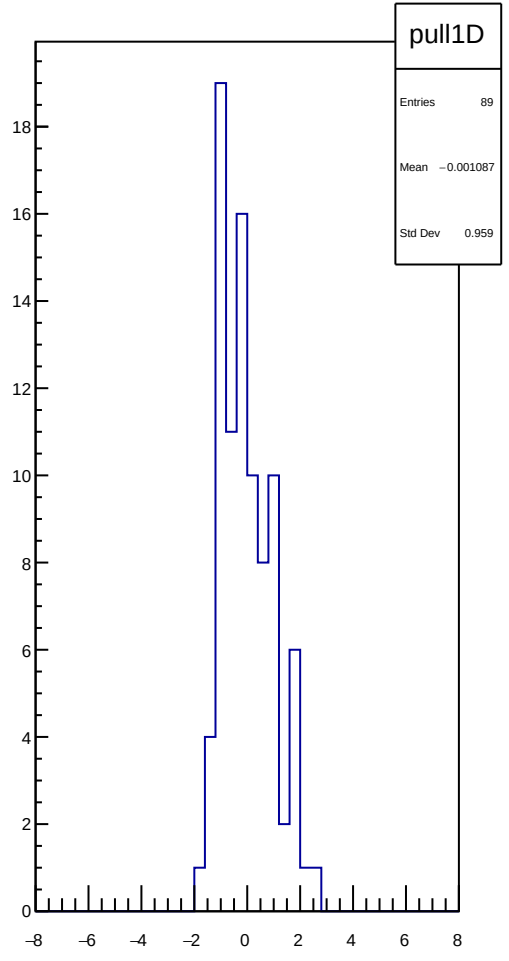

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.867e+04 / 88
p0 78.16 ± 0.06167
160
140
120
100
80
60

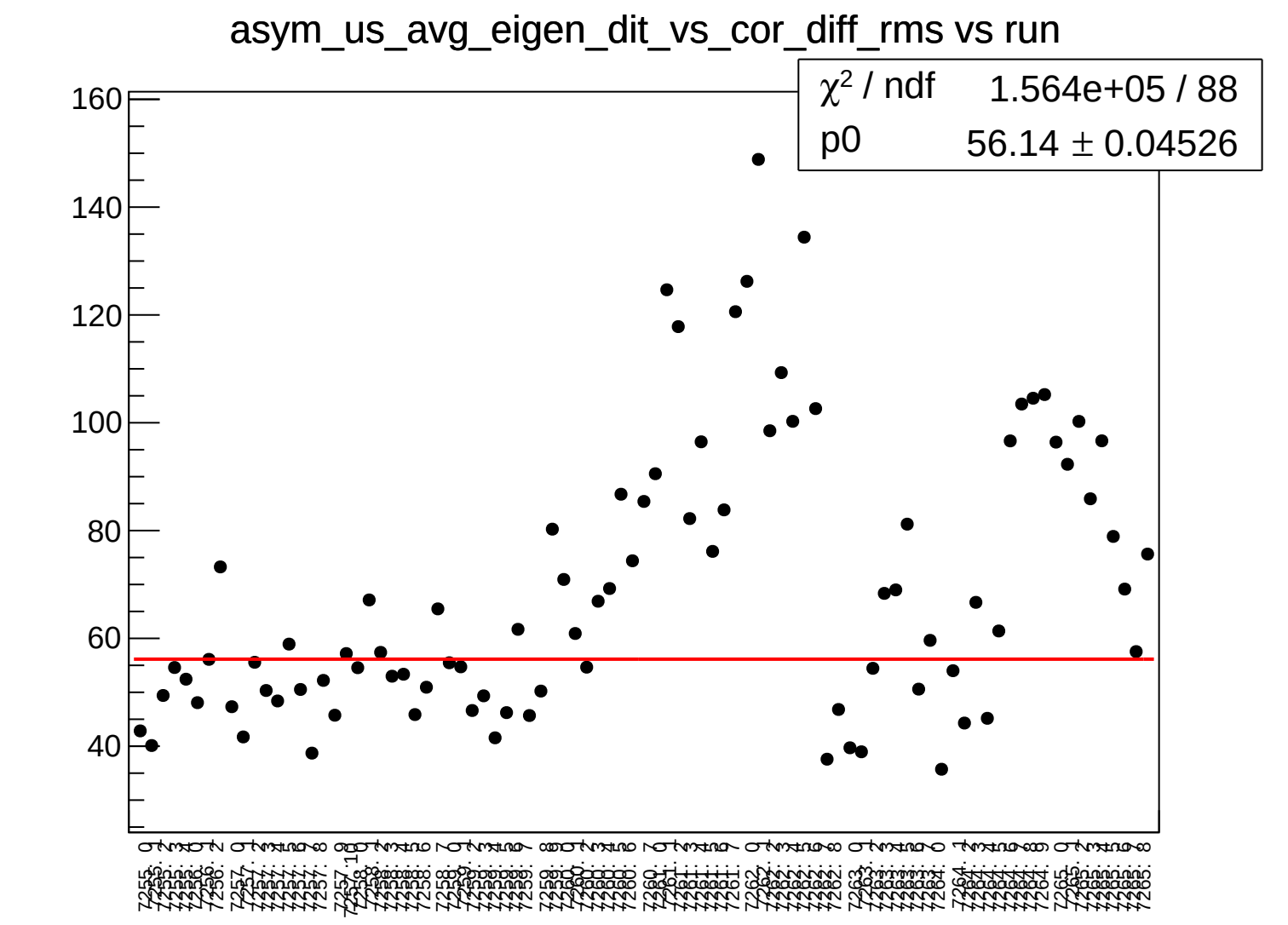

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.65 / 88
p0 2.362e−06 ± 4.263e−06
pull
Entries 89
Mean −2817
Std Dev 0

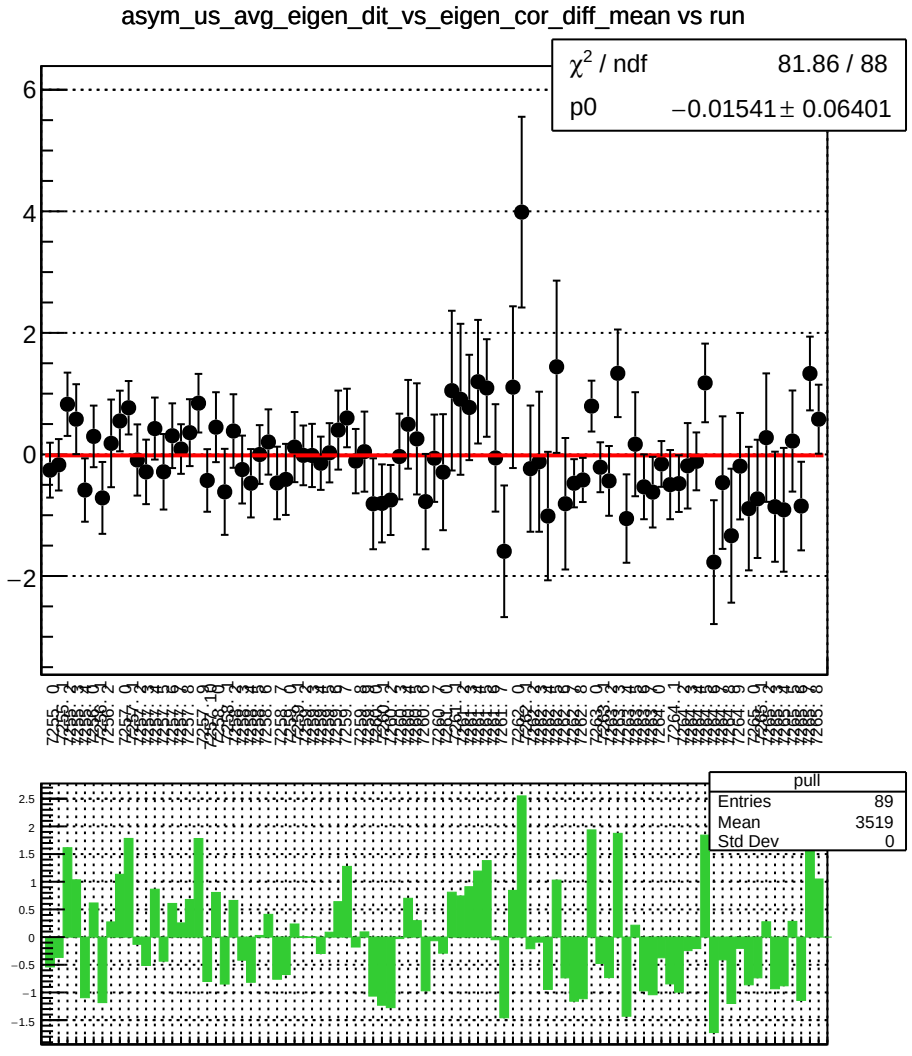

pull1D
Entries 89
Mean 0.00114
Std Dev 0.9636

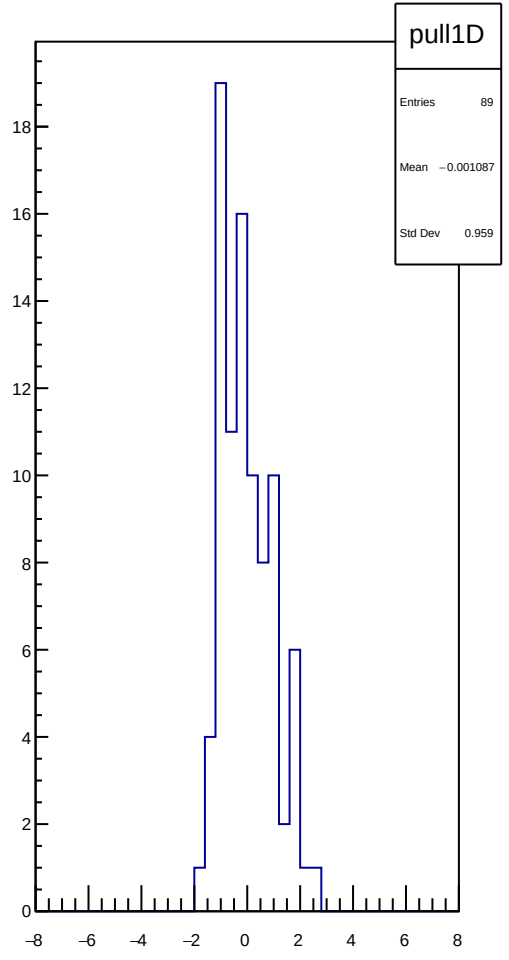

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6235 / 88
p0 0.003917 ± 3.014e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

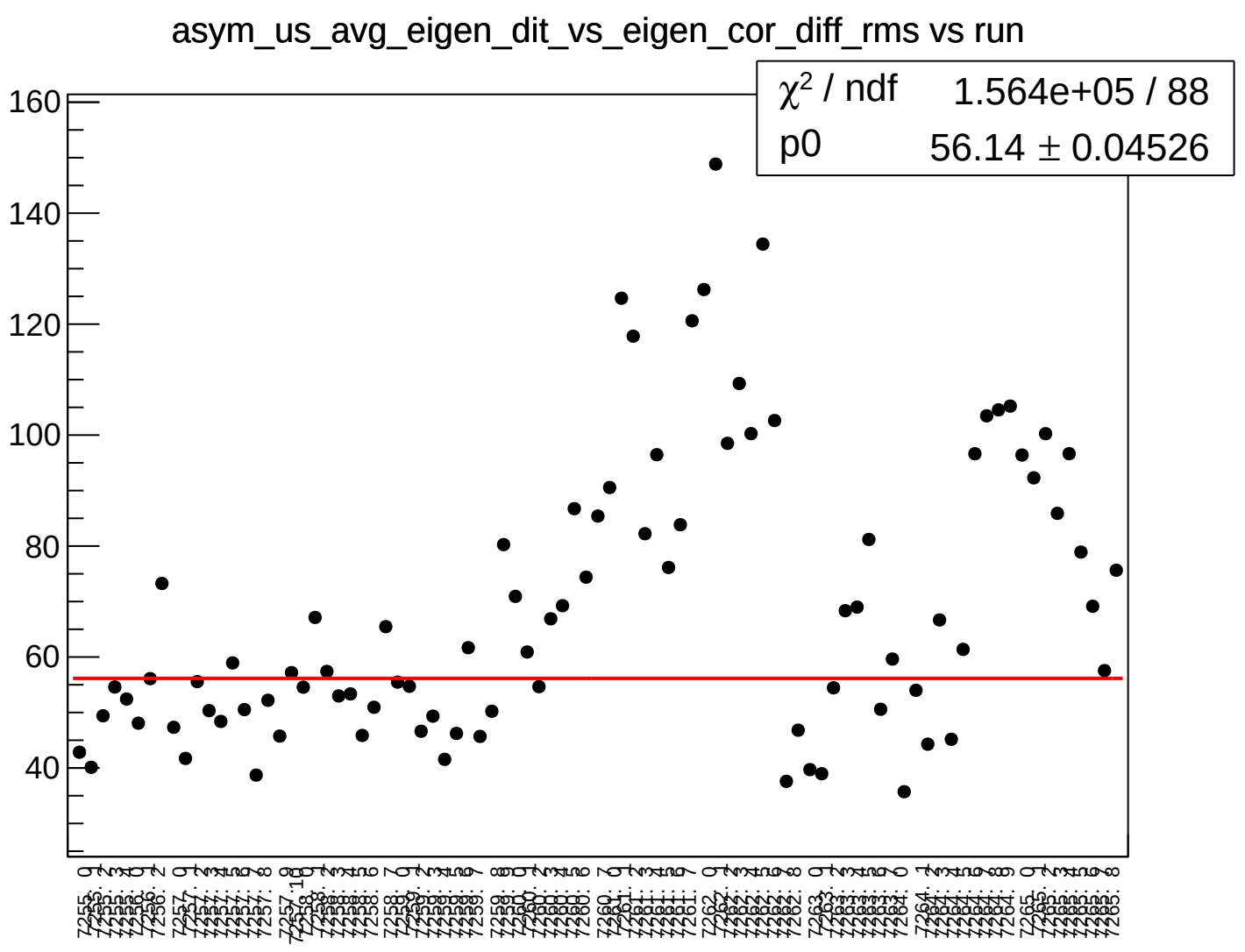

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.86 / 88
p0 −0.01541 ± 0.06401
pull
Entries 89
Mean 3519
Std Dev 0

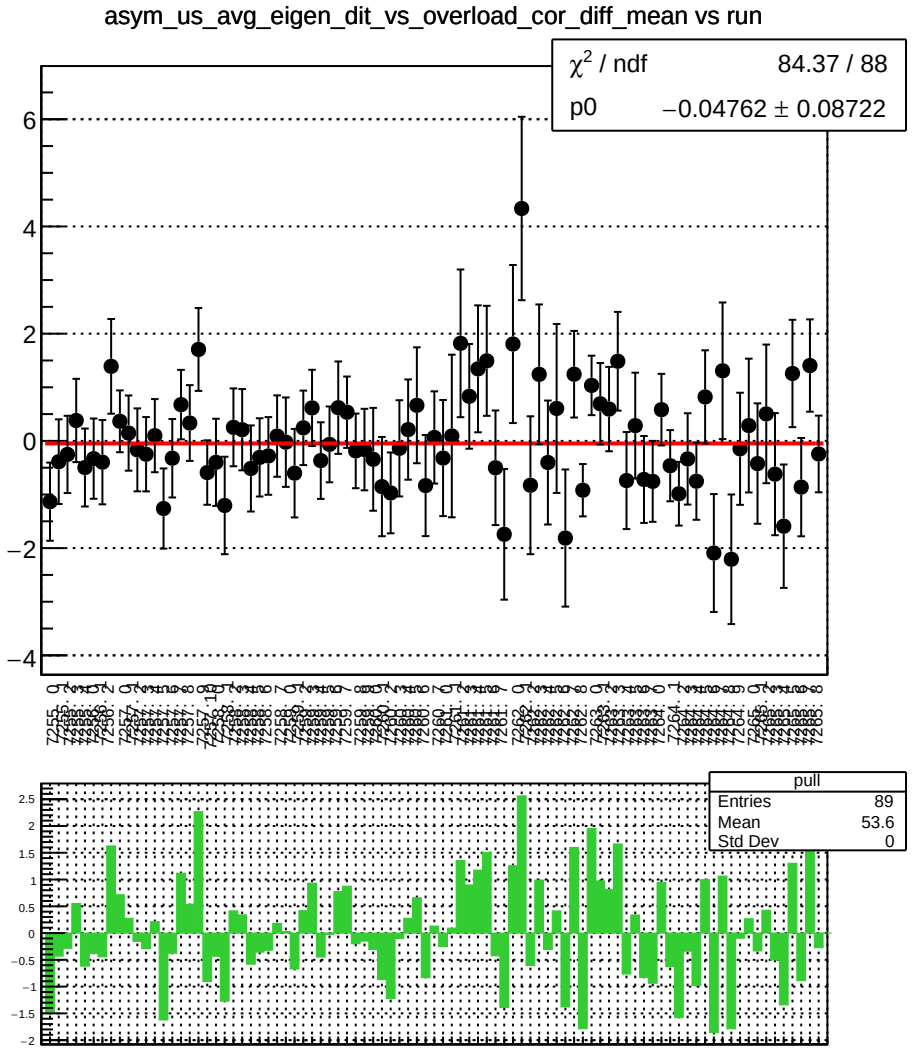

pull1D
Entries 89
Mean −0.001087
Std Dev 0.959

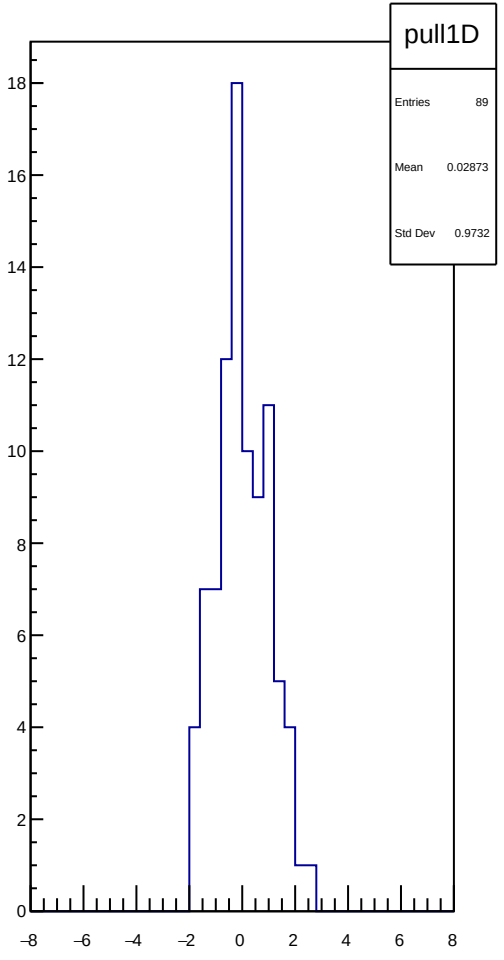

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.564e+05 / 88
p0 56.14 ± 0.04526
160
140
120
100
80
60
40

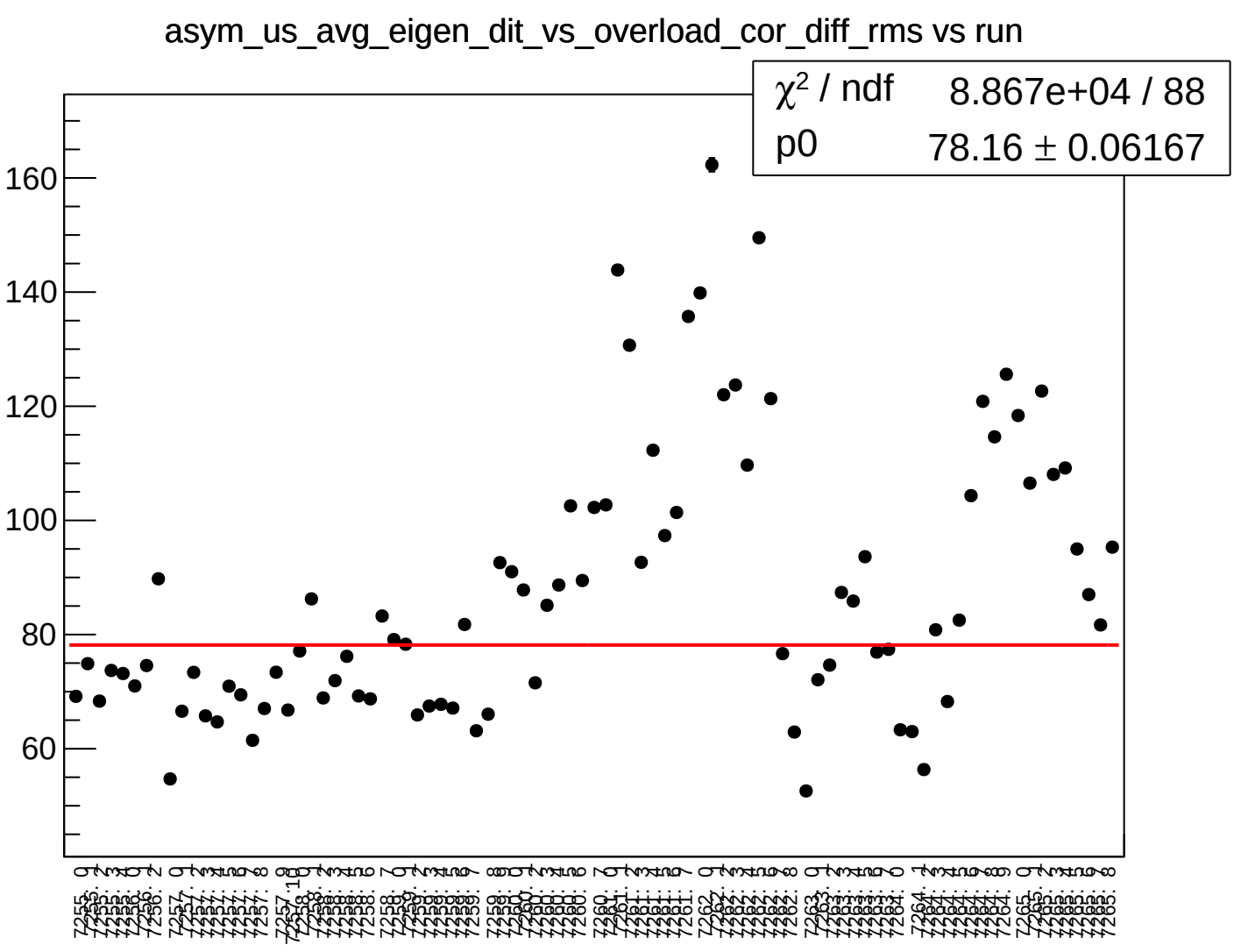

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.86 / 88
p0 −0.01541 ± 0.06401
pull
Entries 89
Mean 3519
Std Dev 0

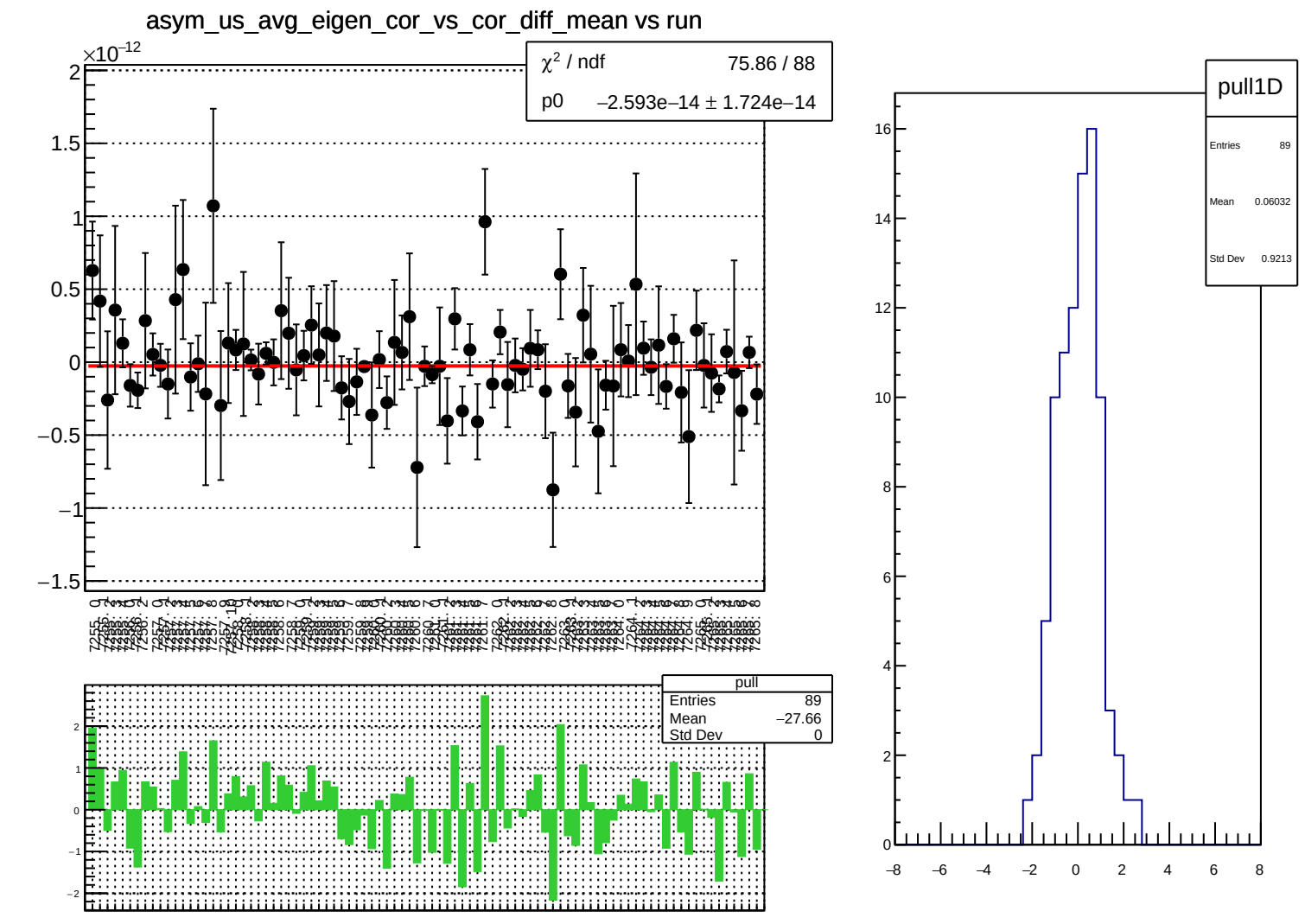

pull1D
Entries 89
Mean −0.001087
Std Dev 0.959

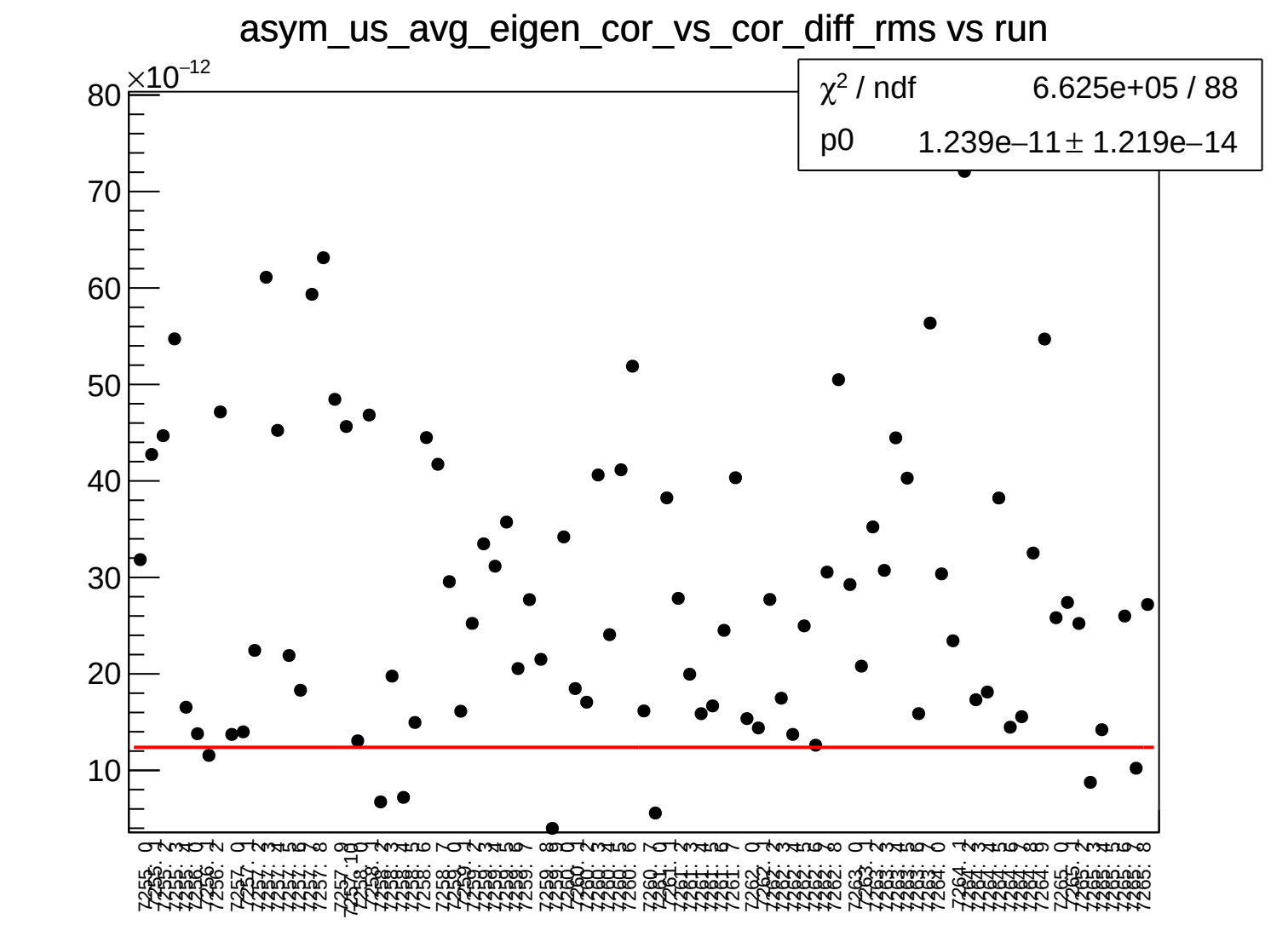

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.564e+05 / 88
p0 56.14 ± 0.04526
160
140
120
100
80
60
40

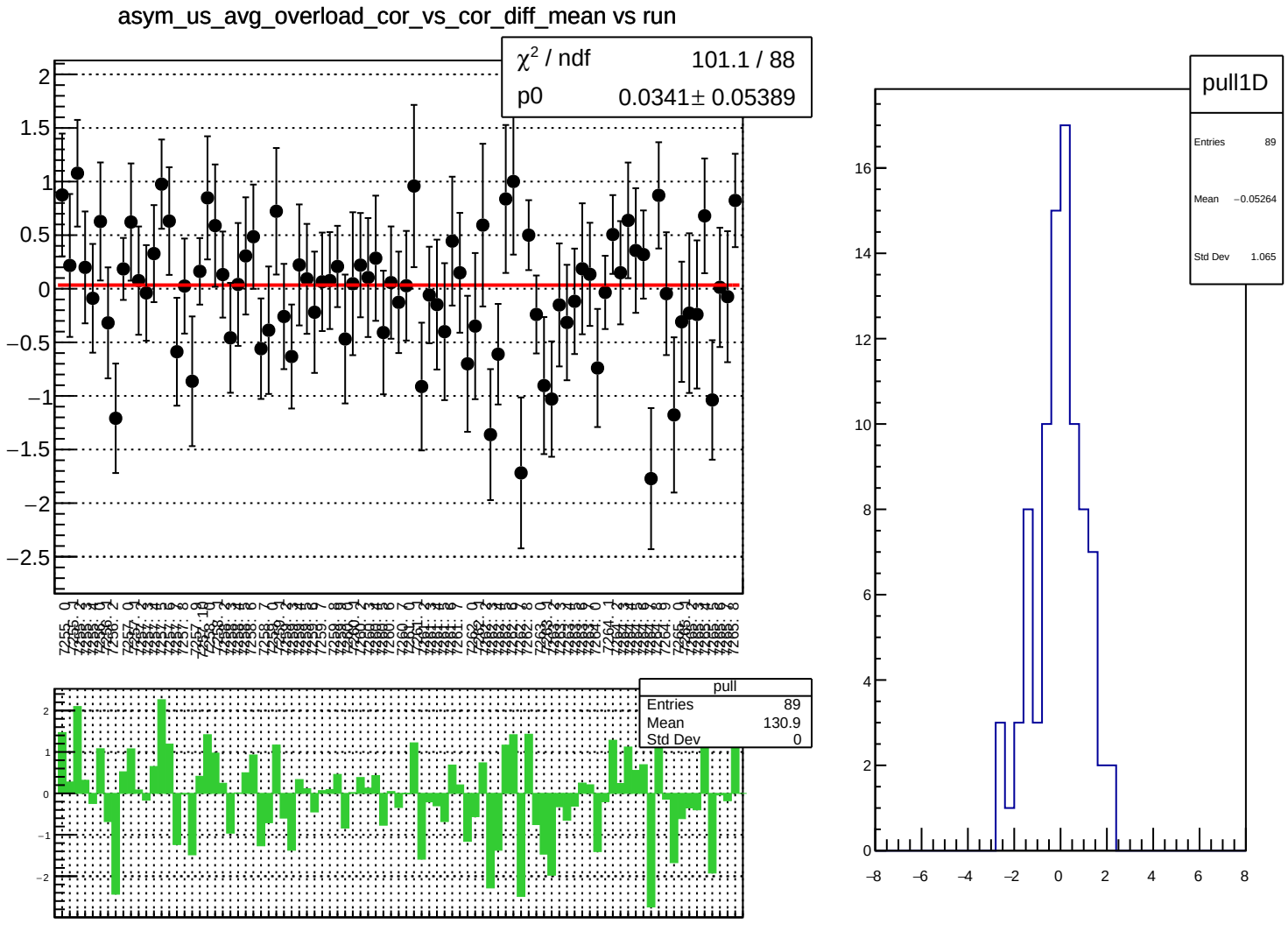

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.37 / 88
p0 −0.04762 ± 0.08722
pull
Entries 89
Mean 53.6
Std Dev 0

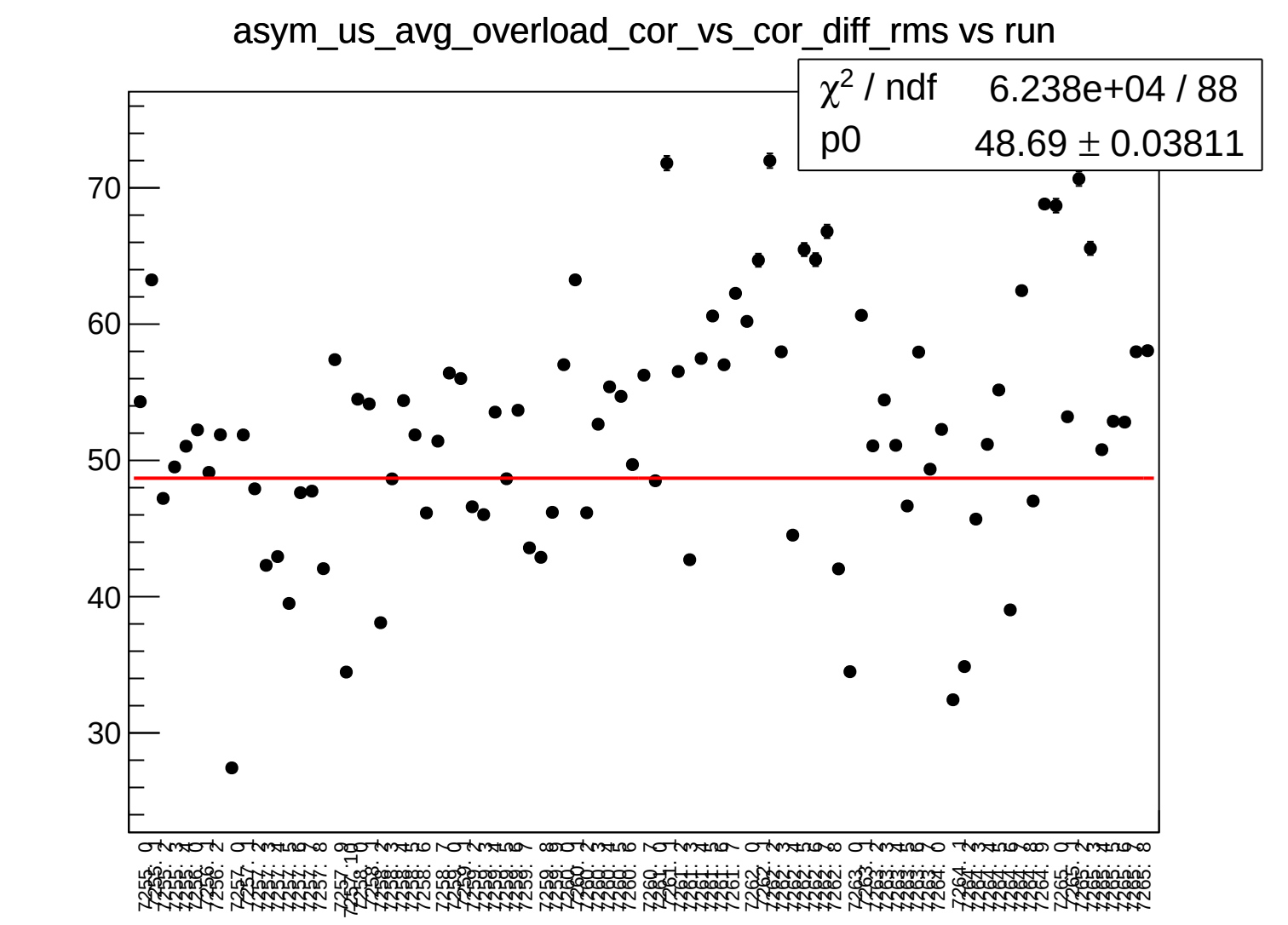

pull1D
Entries 89
Mean 0.02873
Std Dev 0.9732

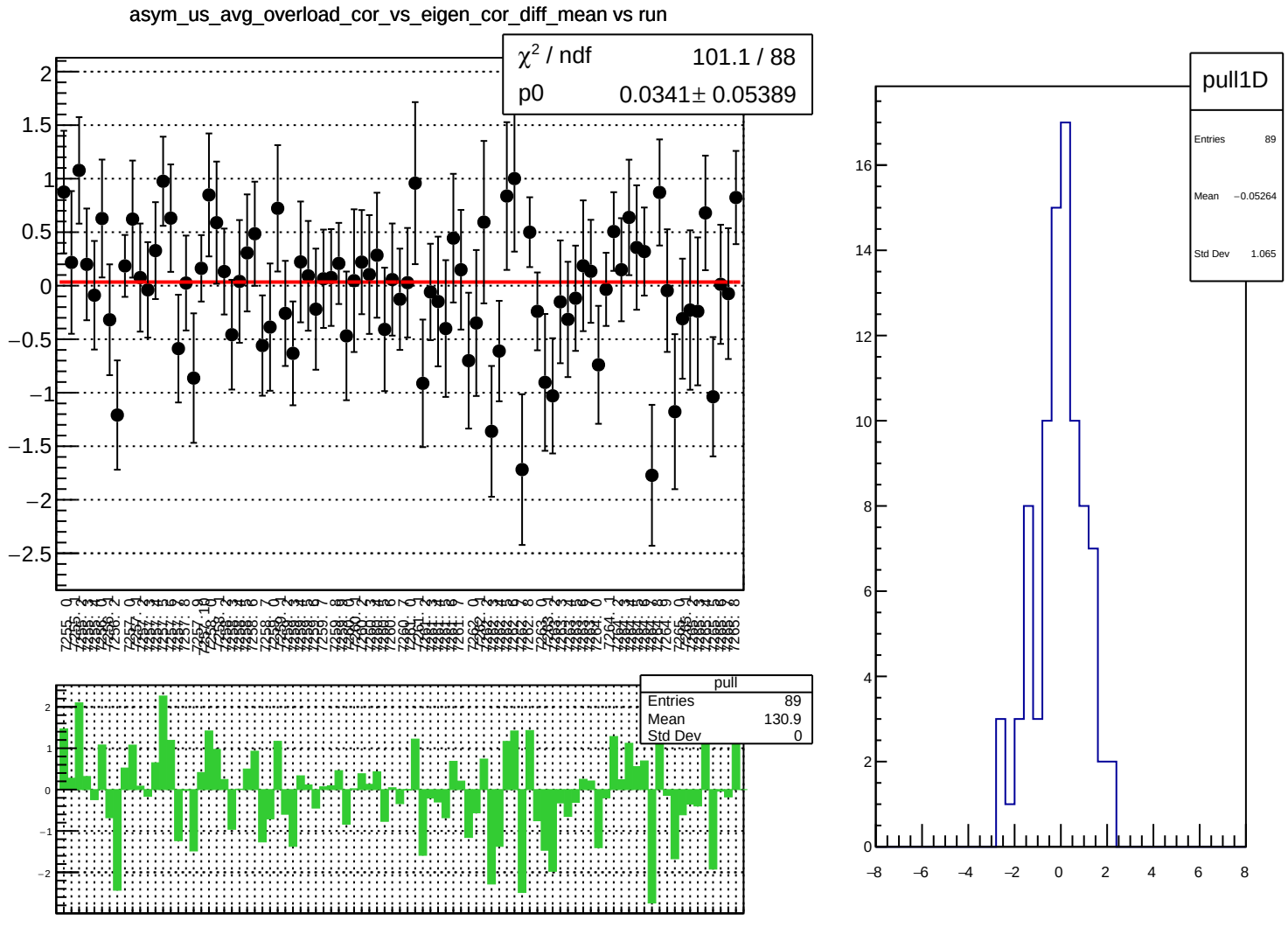

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.867e+04 / 88
p0 78.16 ± 0.06167
160
140
120
100
80
60

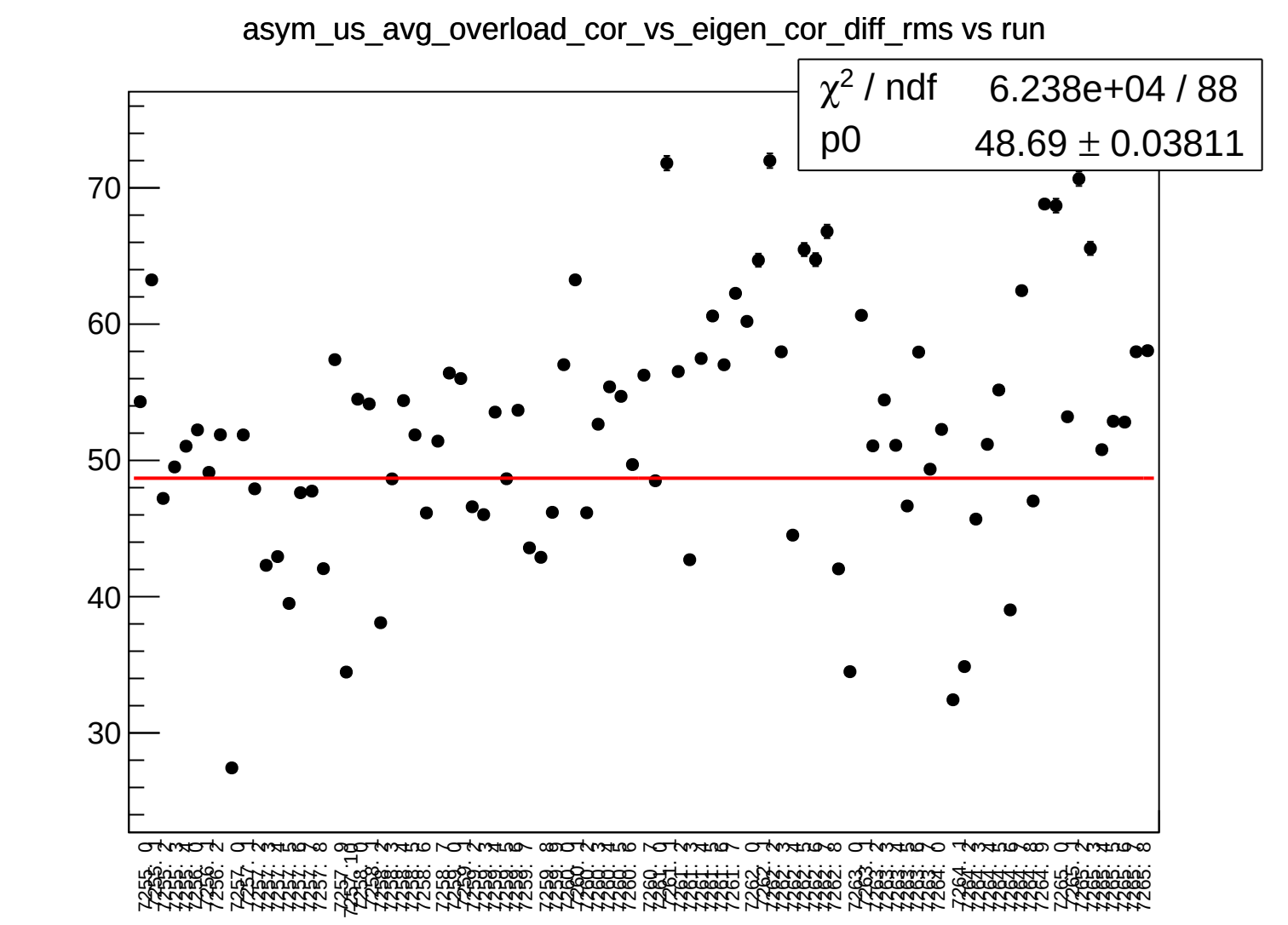

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.86 / 88
p0 −2.593e−14 ± 1.724e−14
pull
Entries 89
Mean −27.66
Std Dev 0
pull1D
Entries 89
Mean 0.06032
Std Dev 0.9213

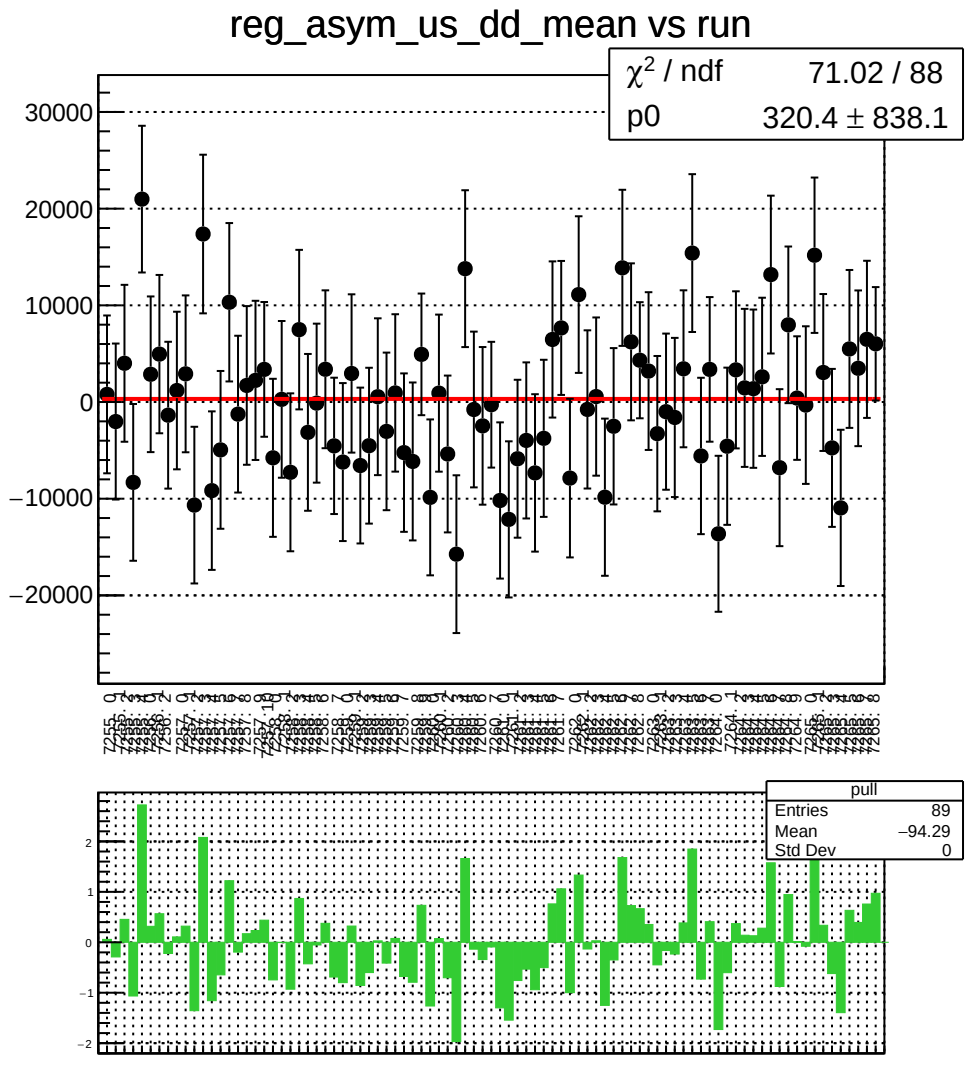

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
80
70
60
50
40
30
20
10
χ² / ndf 6.625e+05 / 88
p0 1.239e−11 ± 1.219e−14

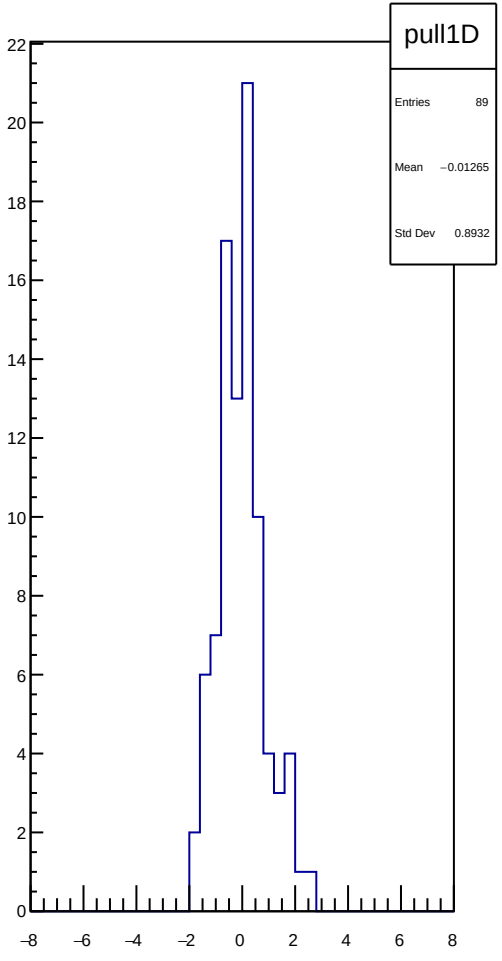

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 101.1 / 88
p0 0.0341± 0.05389
pull
Entries 89
Mean 130.9
Std Dev 0
pull1D
Entries 89
Mean −0.05264
Std Dev 1.065

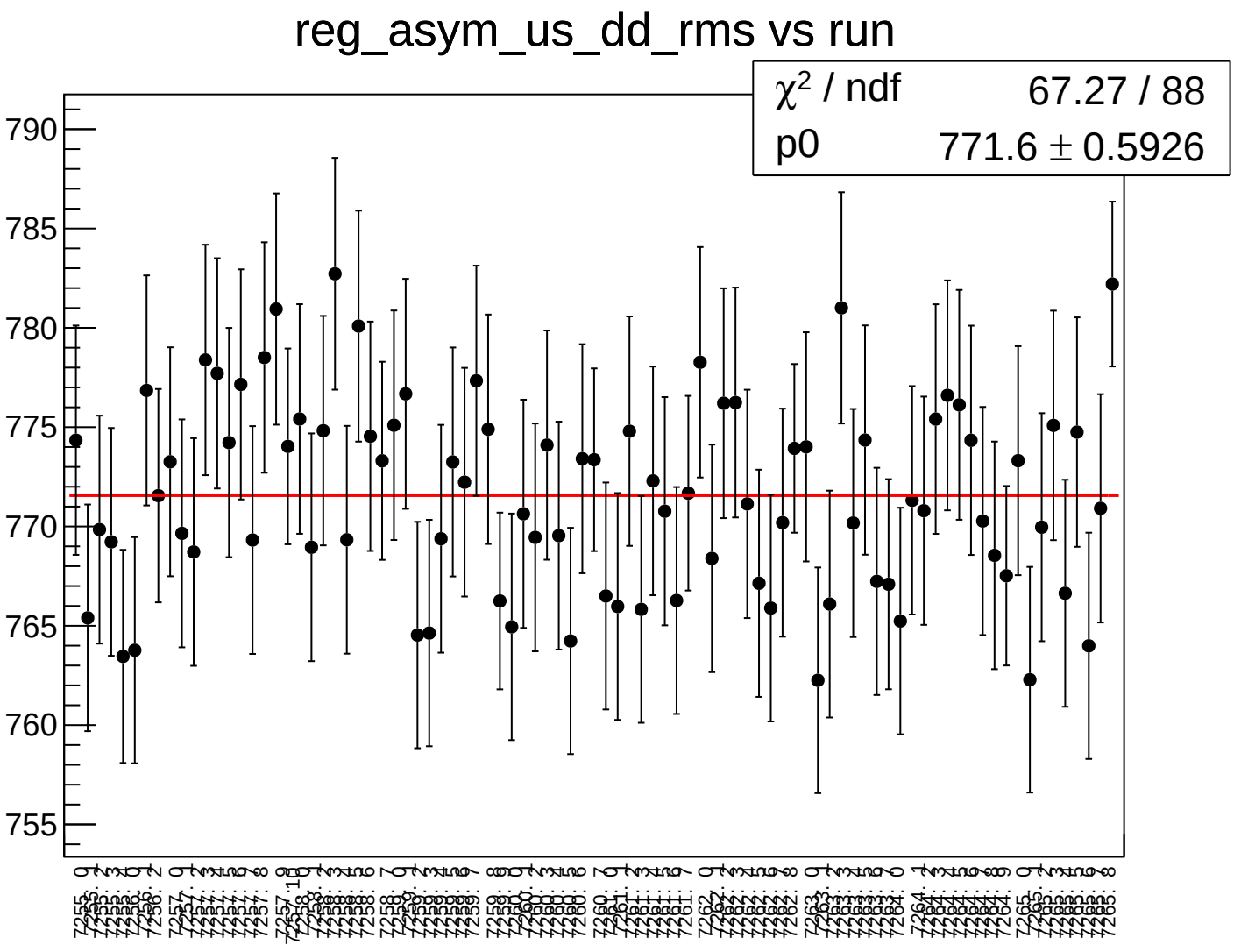

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 6.238e+04 / 88
p0 48.69 ± 0.03811
70
60
50
40
30

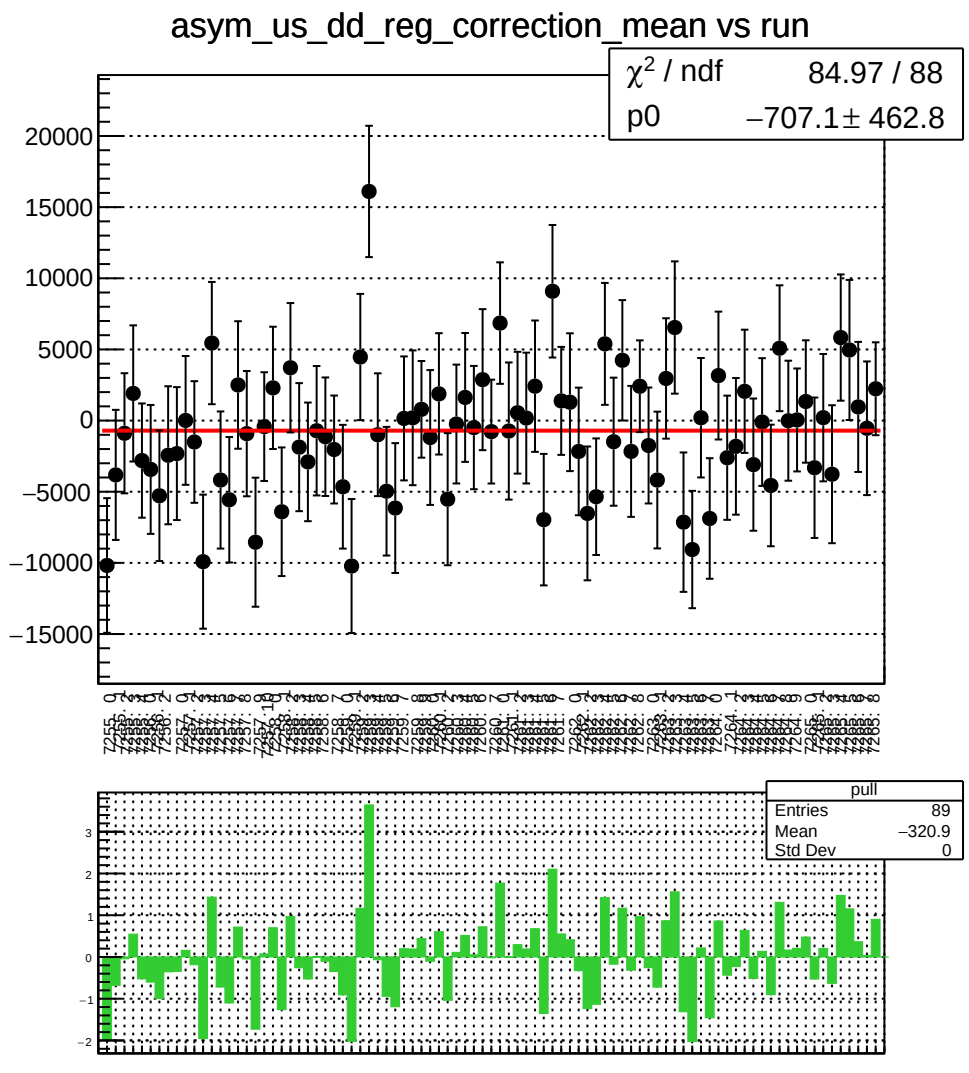

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.1 / 88
p0 0.0341± 0.05389
pull
Entries 89
Mean 130.9
Std Dev 0
pull1D
Entries 89
Mean −0.05264
Std Dev 1.065

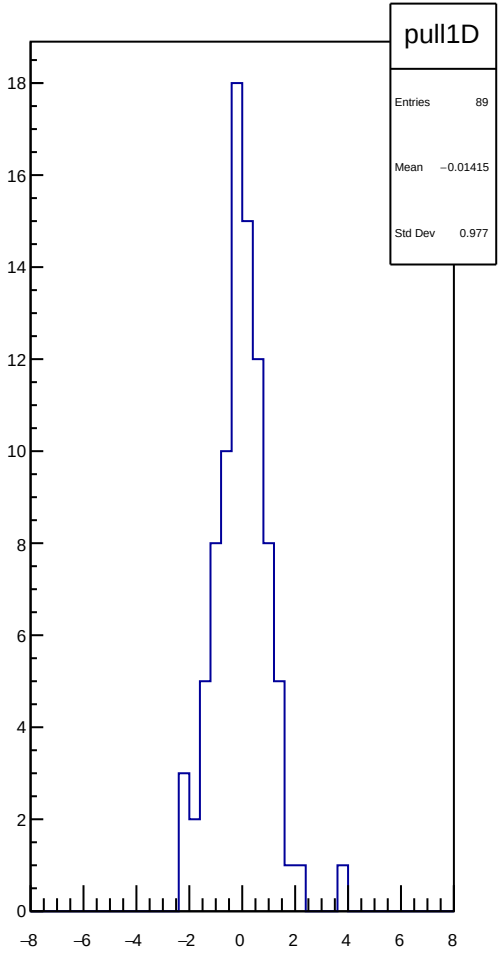

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.238e+04 / 88
p0 48.69 ± 0.03811
70
60
50
40
30

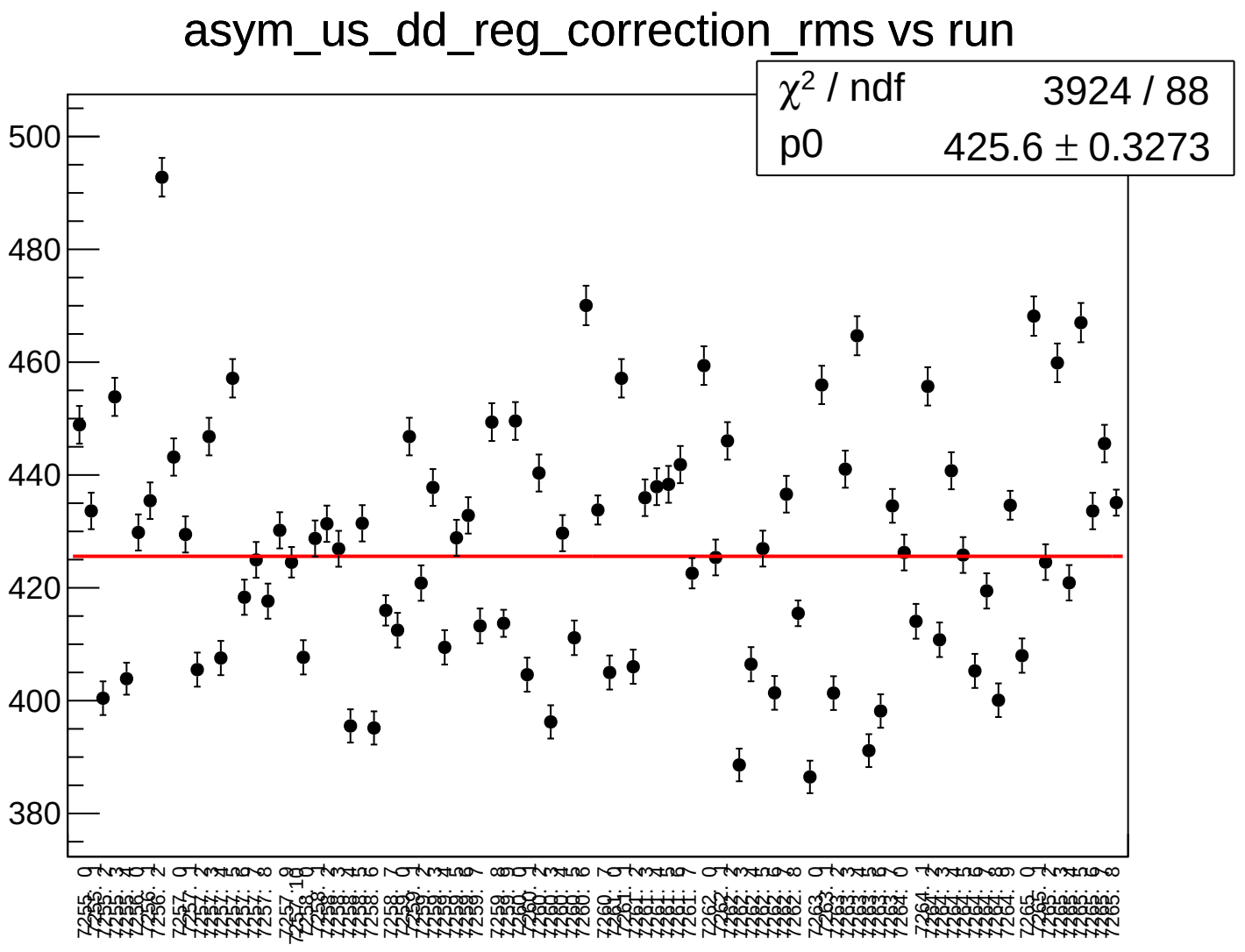

reg_asym_us_dd_mean vs run
χ^2 / ndf 71.02 / 88
p0 320.4 ± 838.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −94.29
Std Dev 0
2
1
0
−1
−2

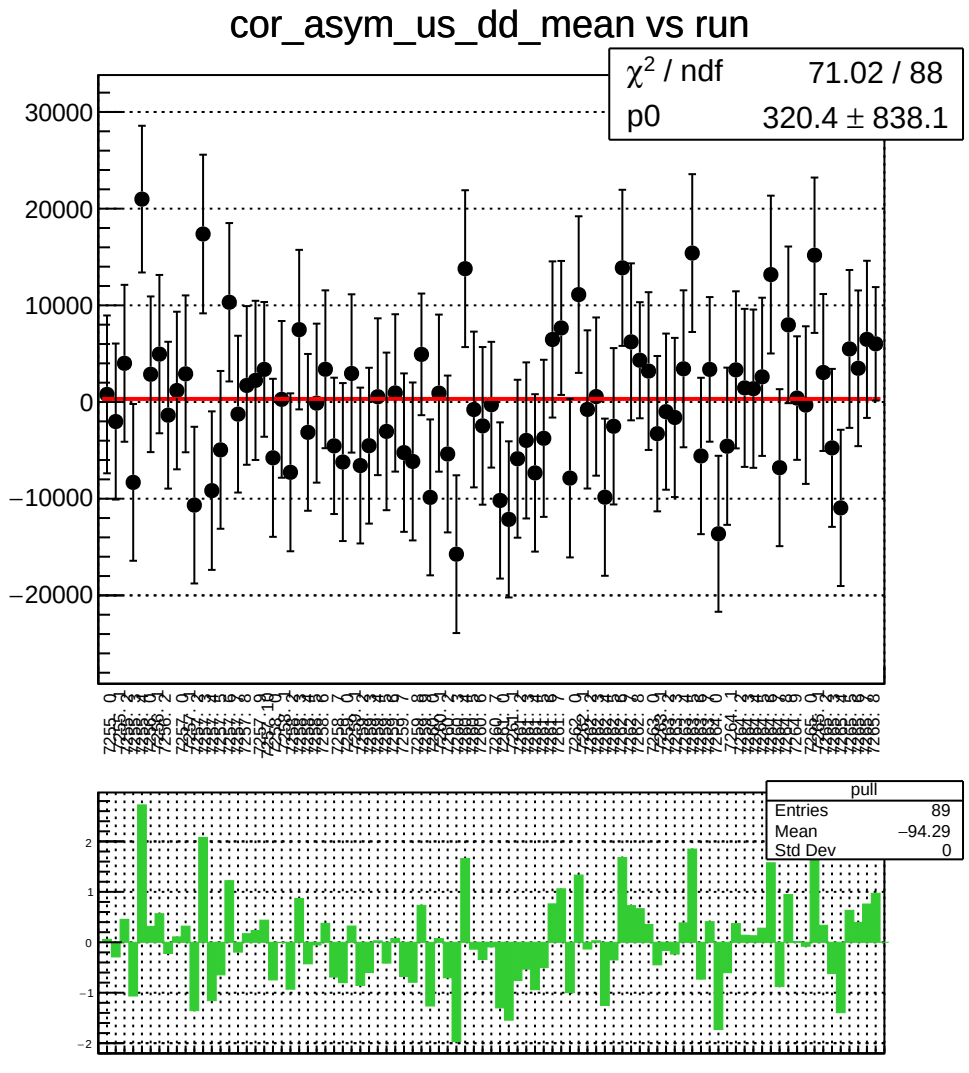

pull1D
Entries 89
Mean −0.01265
Std Dev 0.8932
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

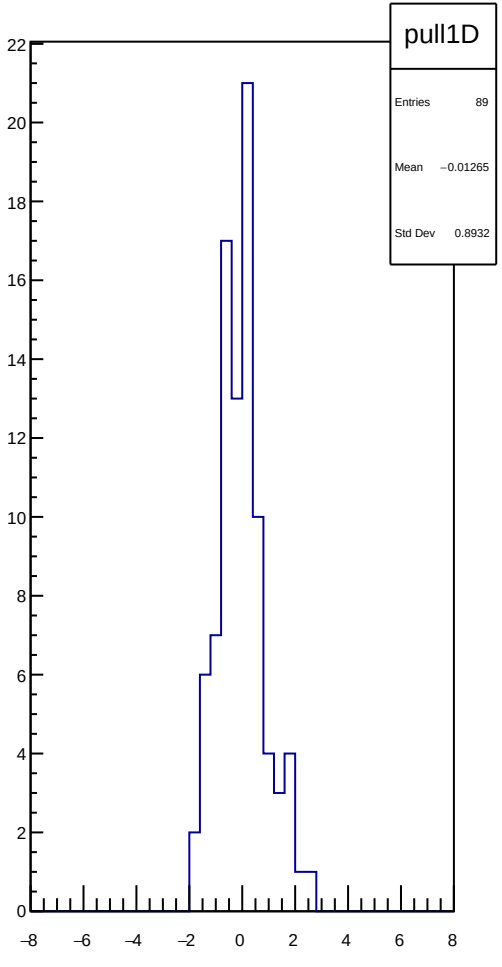

reg_asym_us_dd_rms vs run
χ² / ndf 67.27 / 88
p0 771.6 ± 0.5926
790
785
780
775
770
765
760
755

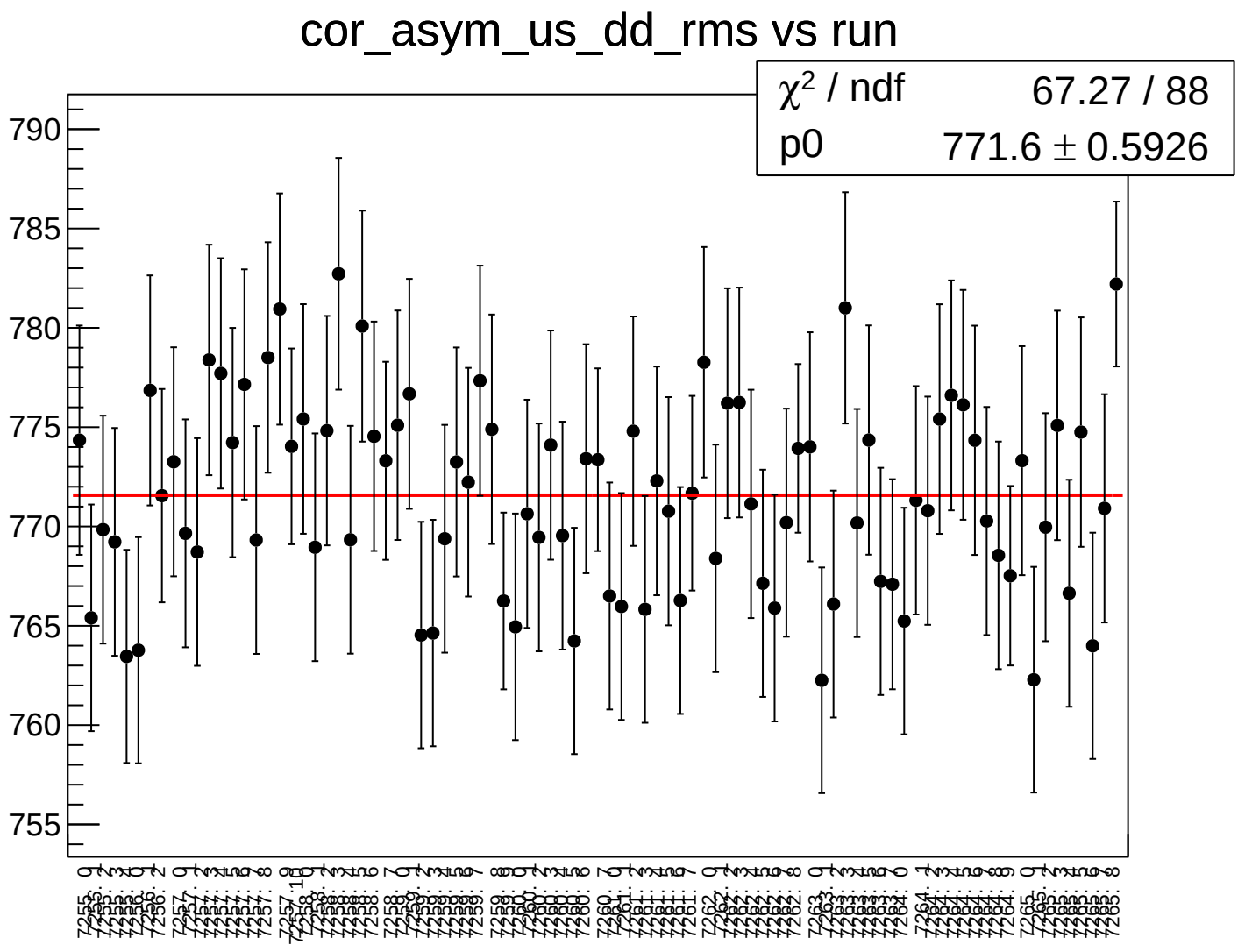

asym_us_dd_reg_correction_mean vs run
χ² / ndf 84.97 / 88
p0 −707.1± 462.8
pull
Entries 89
Mean −320.9
Std Dev 0

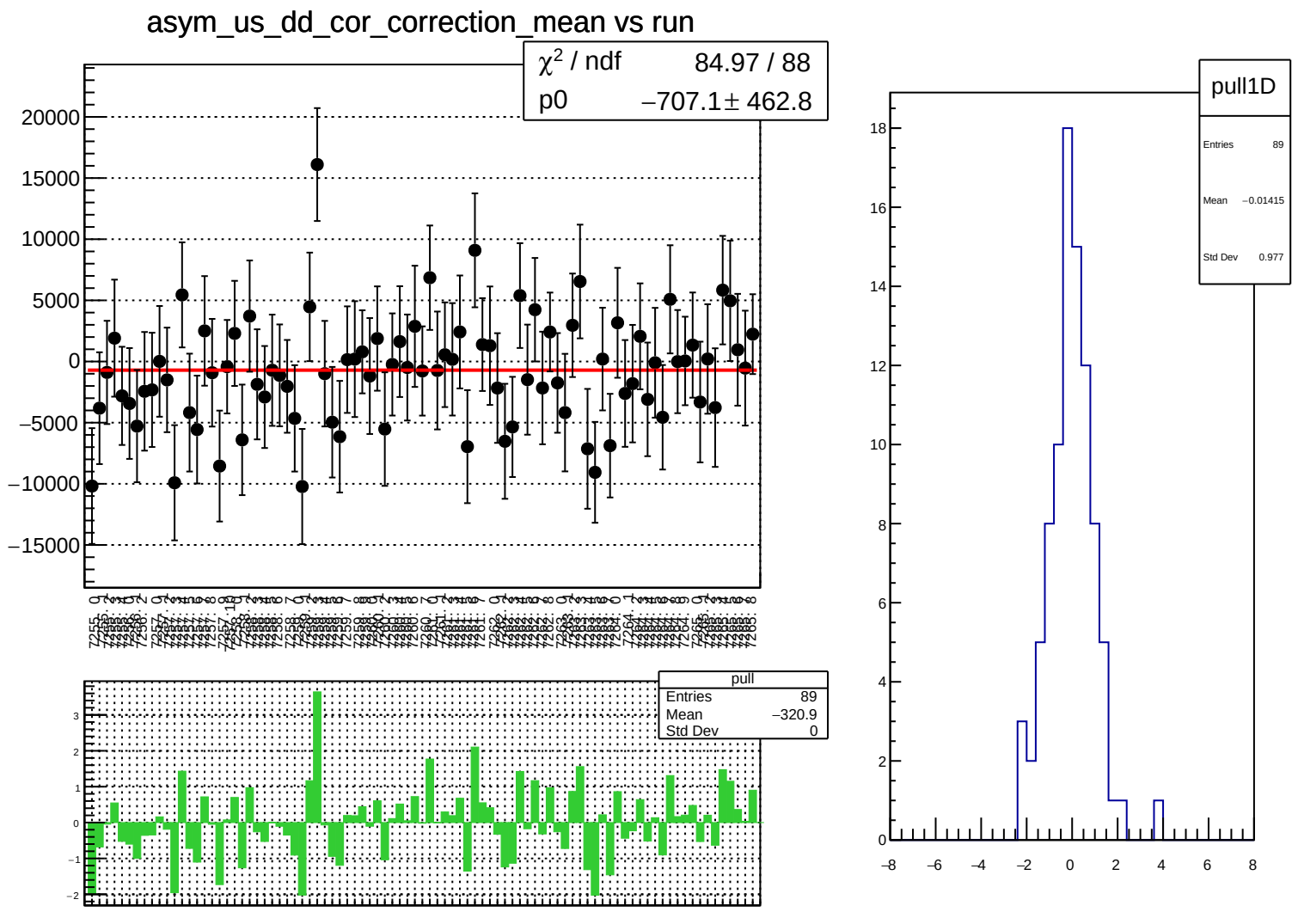

pull1D
Entries 89
Mean −0.01415
Std Dev 0.977

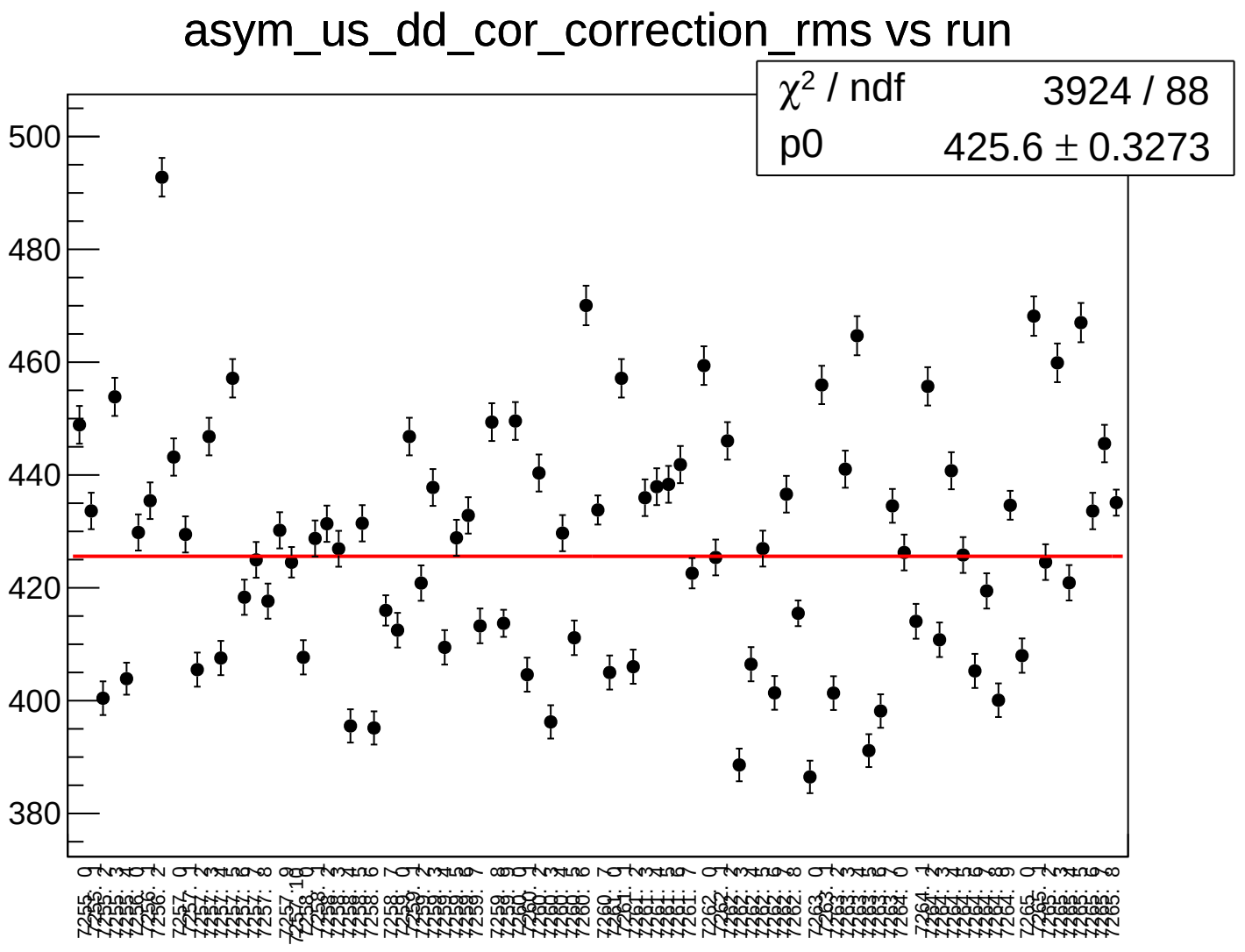

asym_us_dd_reg_correction_rms vs run
χ² / ndf 3924 / 88
p0 425.6 ± 0.3273
500
480
460
440
420
400
380

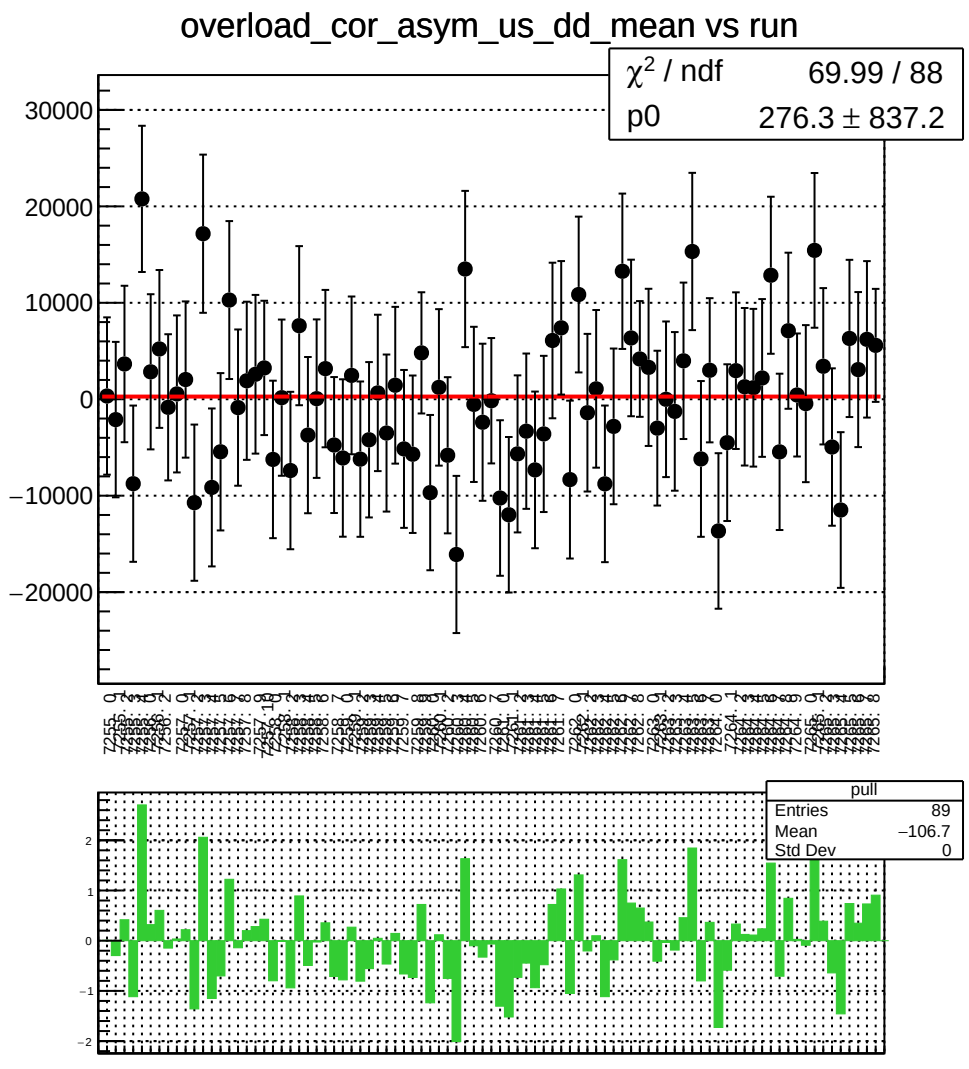

cor_asym_us_dd_mean vs run
χ² / ndf 71.02 / 88
p0 320.4 ± 838.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −94.29
Std Dev 0
2
1
0
−1
−2

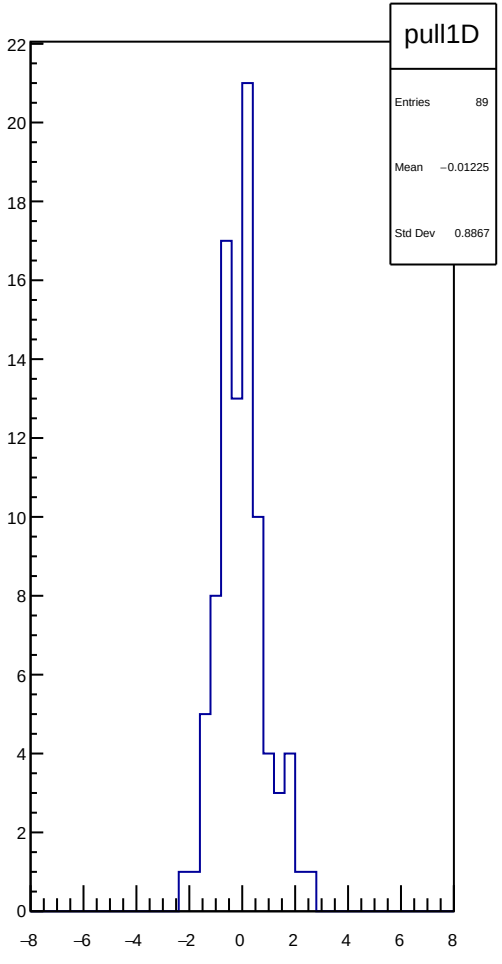

pull1D
Entries 89
Mean −0.01265
Std Dev 0.8932
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

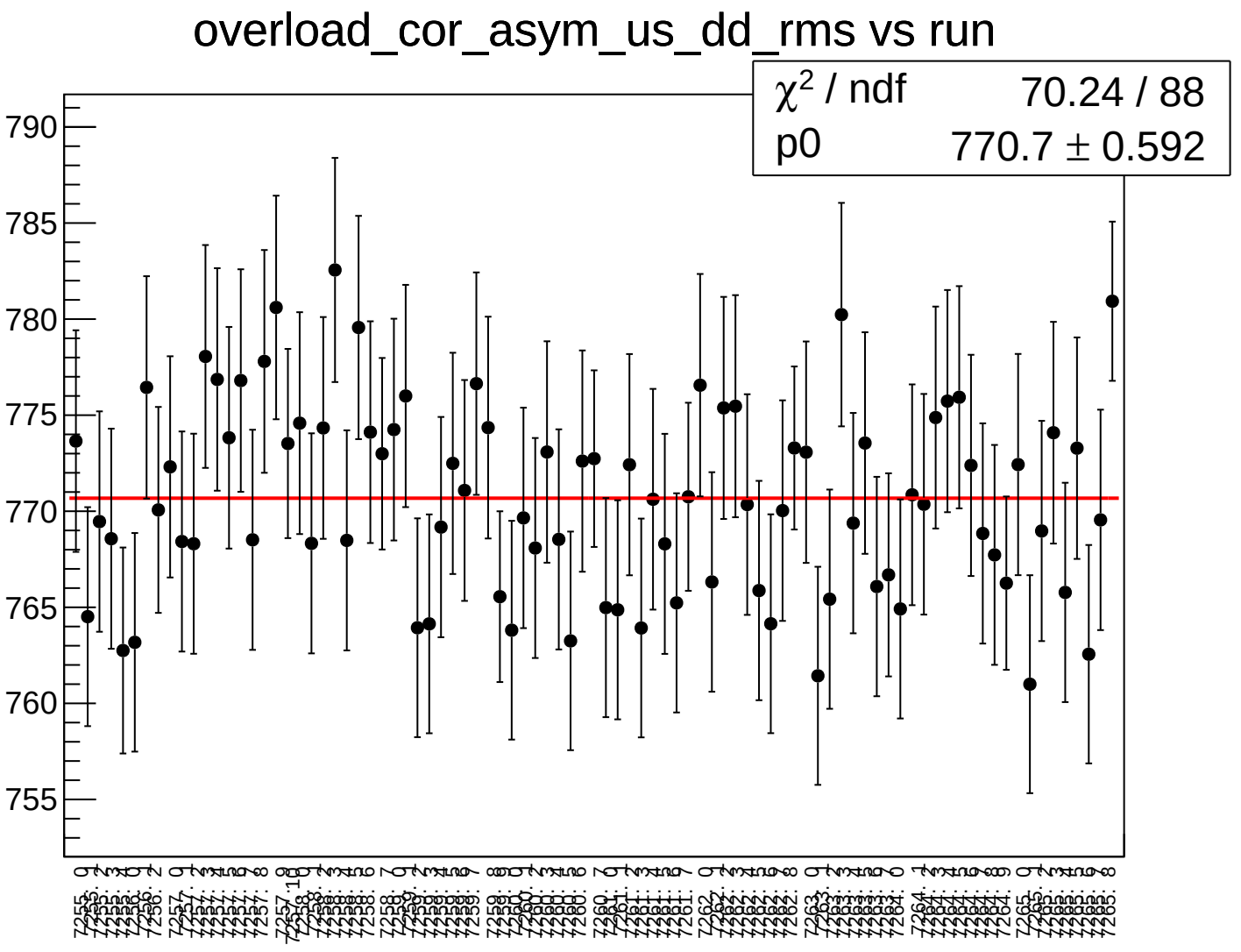

cor_asym_us_dd_rms vs run
χ² / ndf 67.27 / 88
p0 771.6 ± 0.5926
790
785
780
775
770
765
760
755

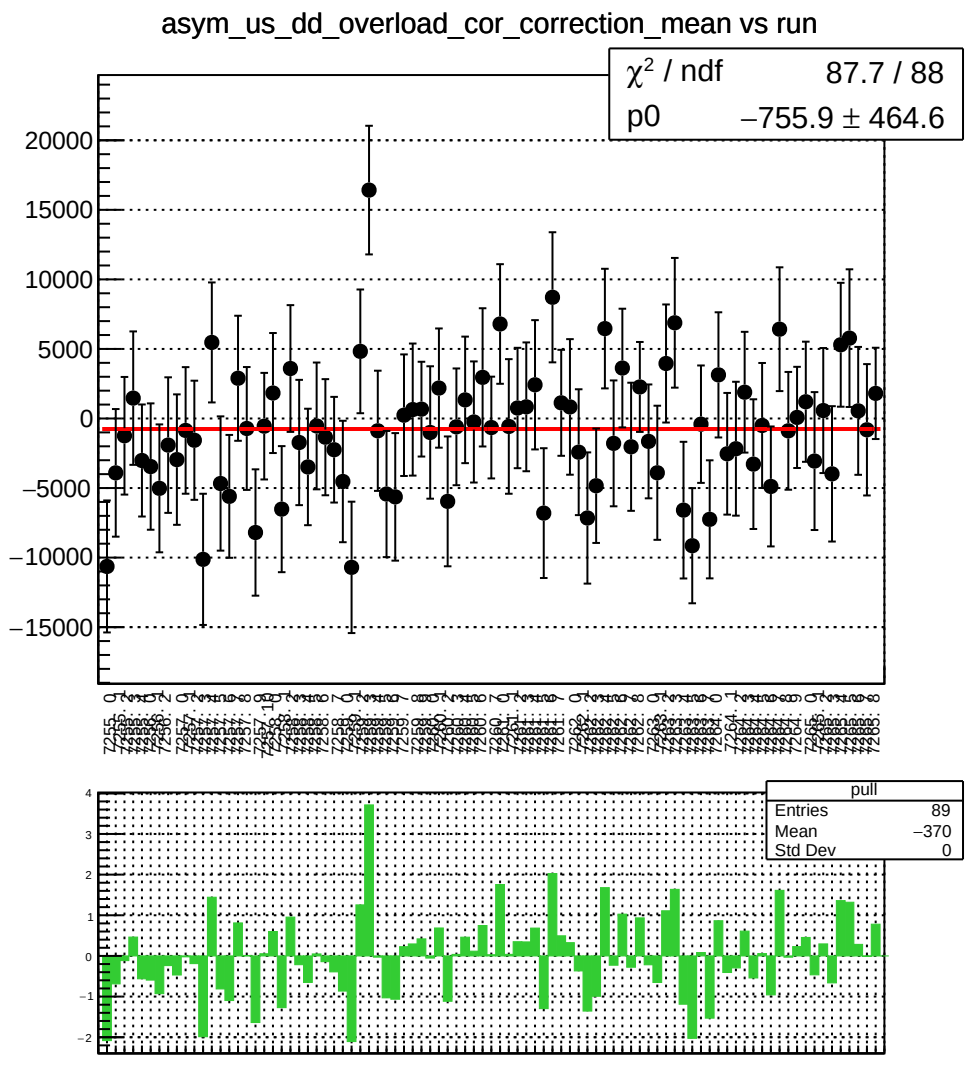

asym_us_dd_cor_correction_mean vs run
χ² / ndf 84.97 / 88
p0 −707.1± 462.8
pull
Entries 89
Mean −320.9
Std Dev 0
pull1D
Entries 89
Mean −0.01415
Std Dev 0.977

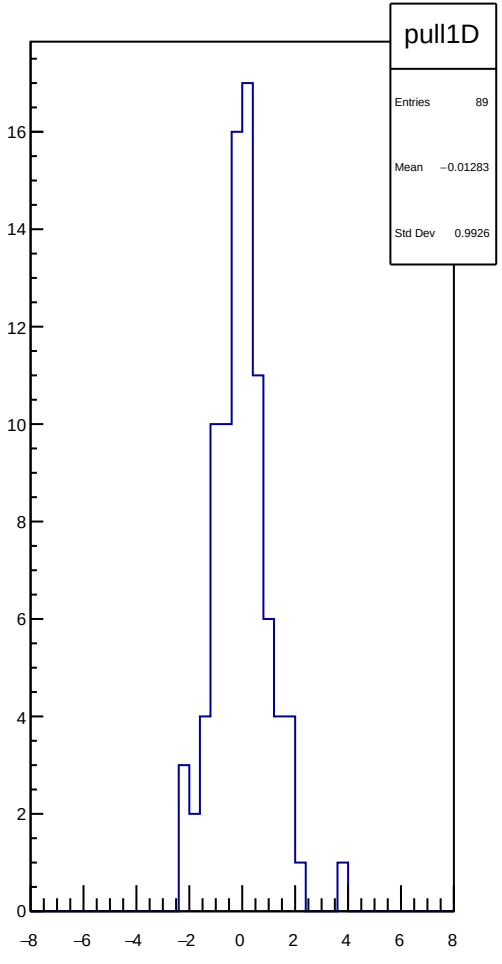

asym_us_dd_cor_correction_rms vs run
χ² / ndf 3924 / 88
p0 425.6 ± 0.3273
500
480
460
440
420
400
380

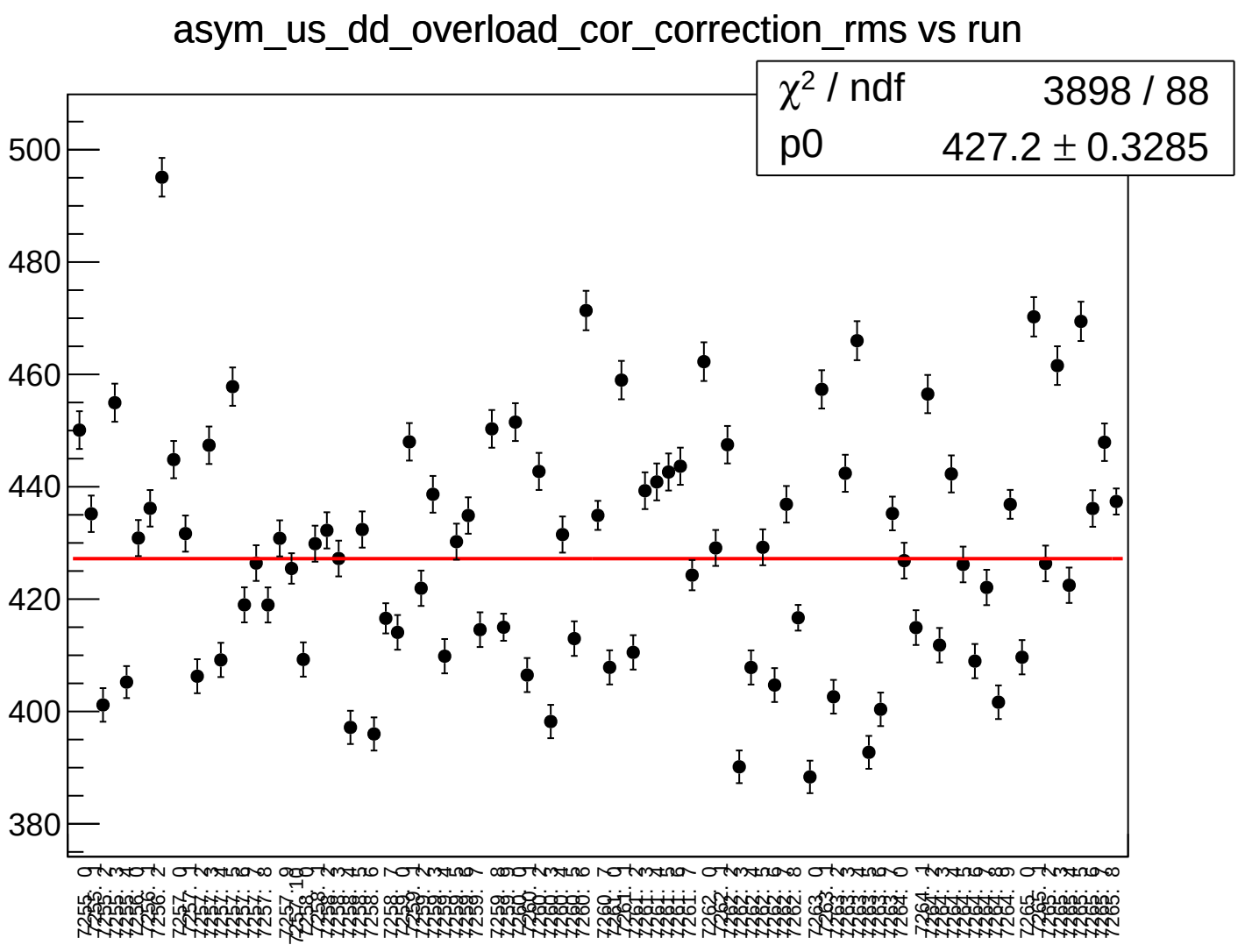

overload_cor_asym_us_dd_mean vs run
χ² / ndf 69.99 / 88
p0 276.3 ± 837.2
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −106.7
Std Dev 0
2
1
0
−1
−2

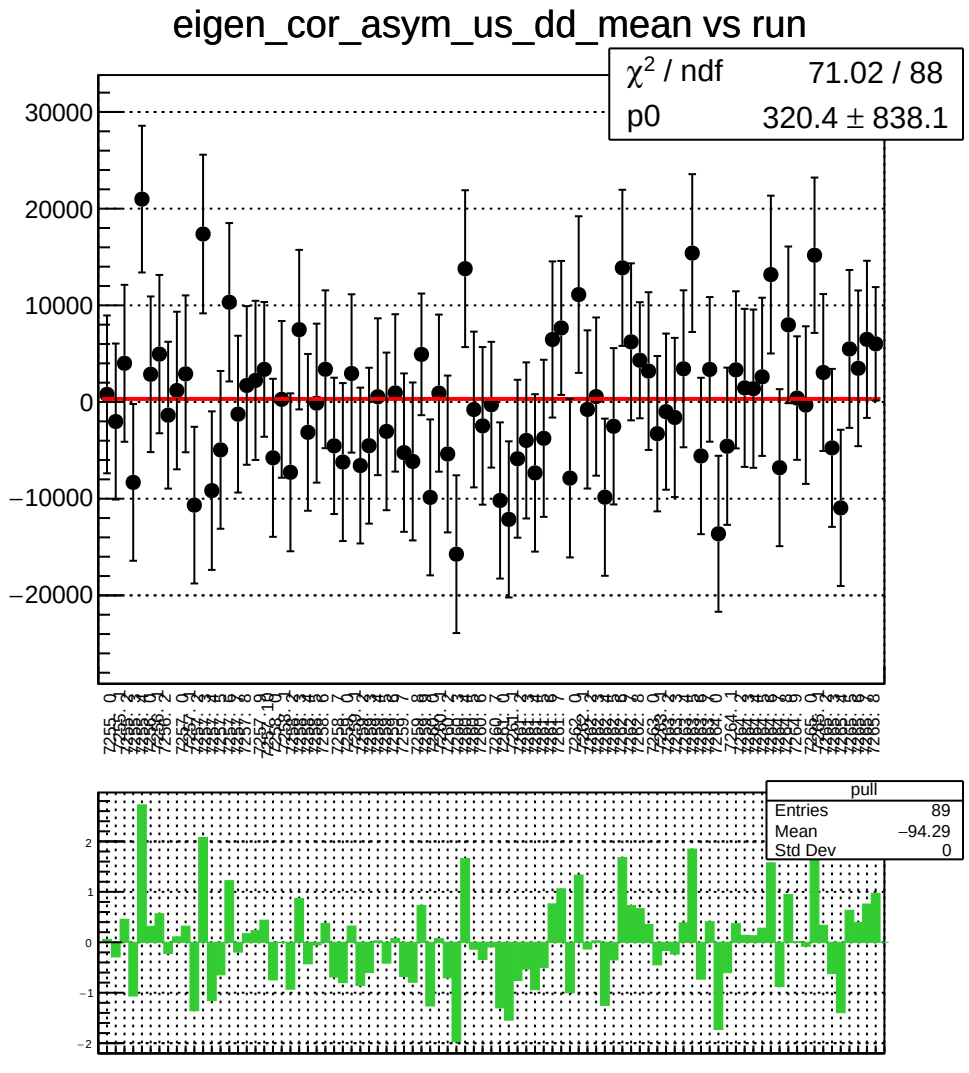

pull1D
Entries 89
Mean −0.01225
Std Dev 0.8867
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

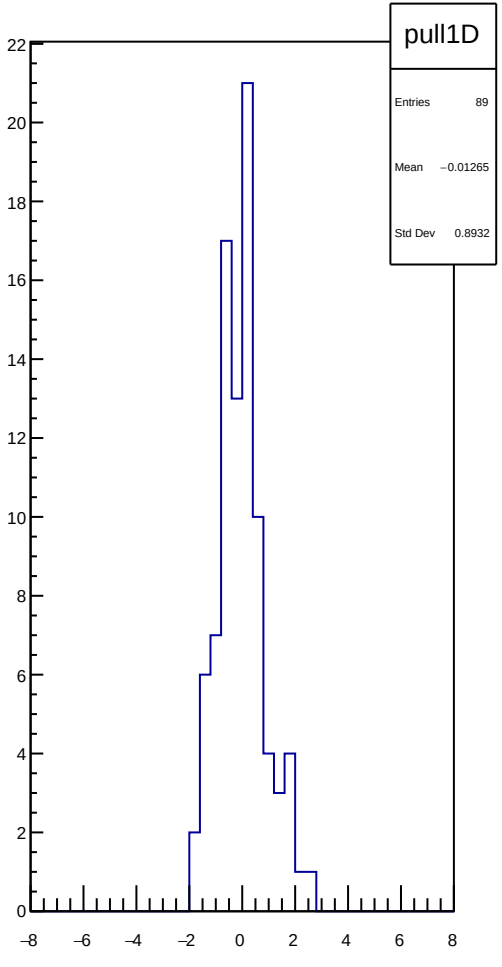

overload_cor_asym_us_dd_rms vs run
χ² / ndf 70.24 / 88
p0 770.7 ± 0.592
790
785
780
775
770
765
760
755

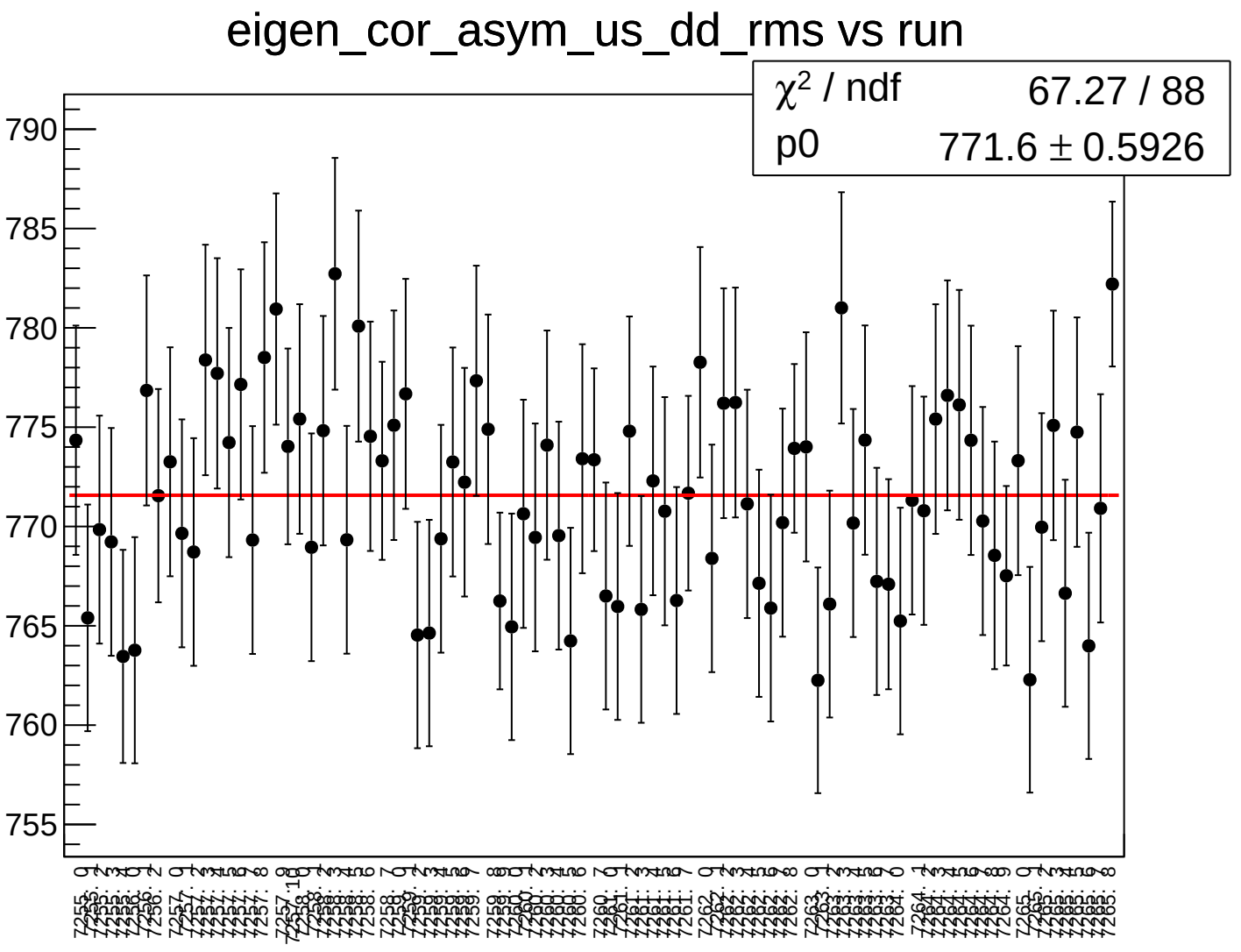

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 87.7 / 88
p0 −755.9 ± 464.6
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −370
Std Dev 0
4
3
2
1
0
−1
−2

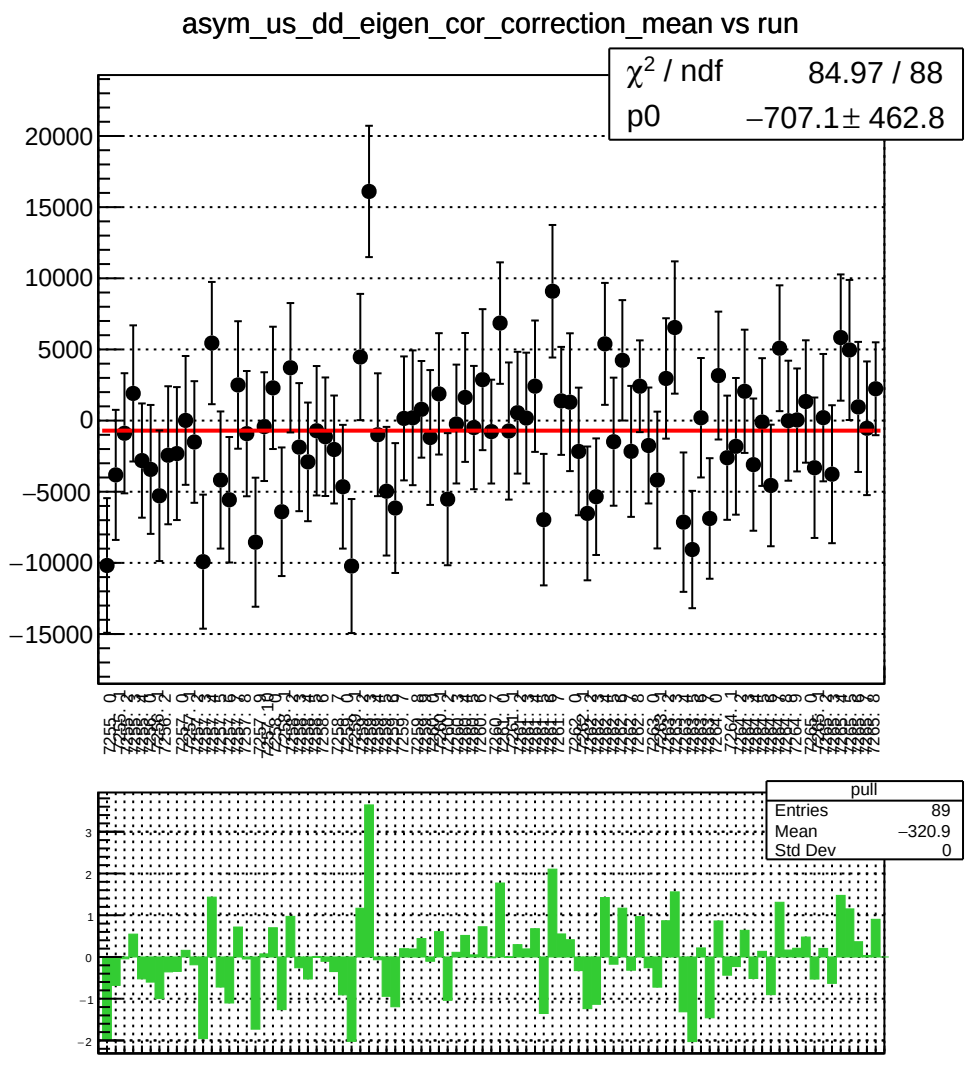

pull1D
Entries 89
Mean −0.01283
Std Dev 0.9926
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

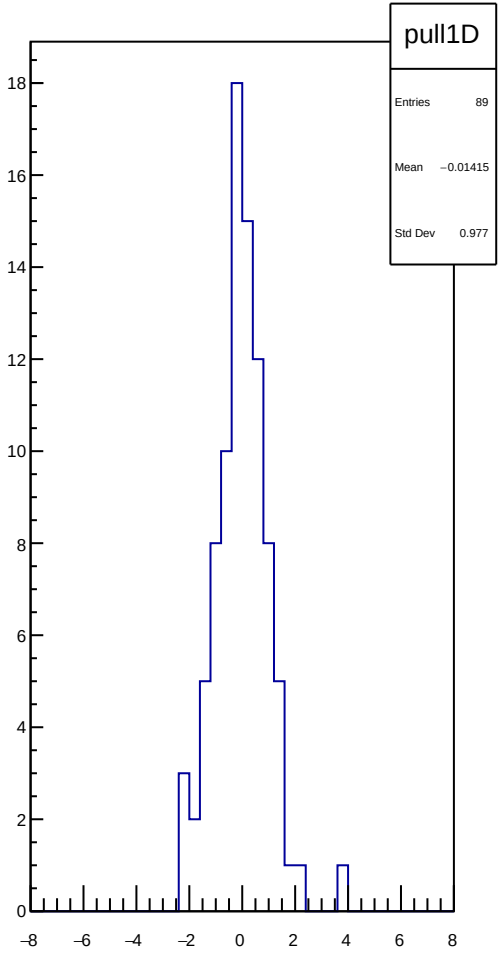

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 3898 / 88
p0 427.2 ± 0.3285
500
480
460
440
420
400
380

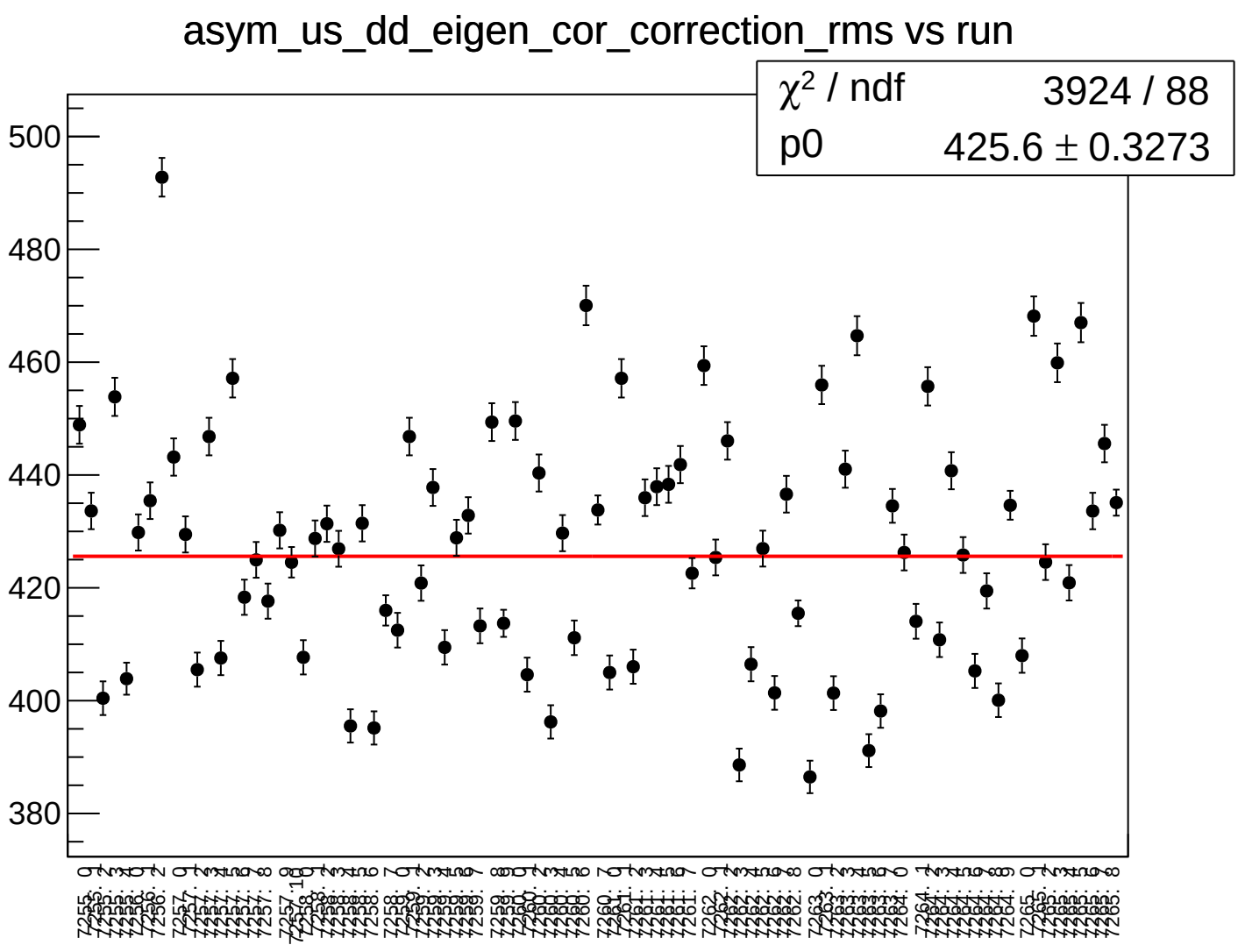

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 71.02 / 88
p0 320.4 ± 838.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −94.29
Std Dev 0
2
1
0
−1
−2

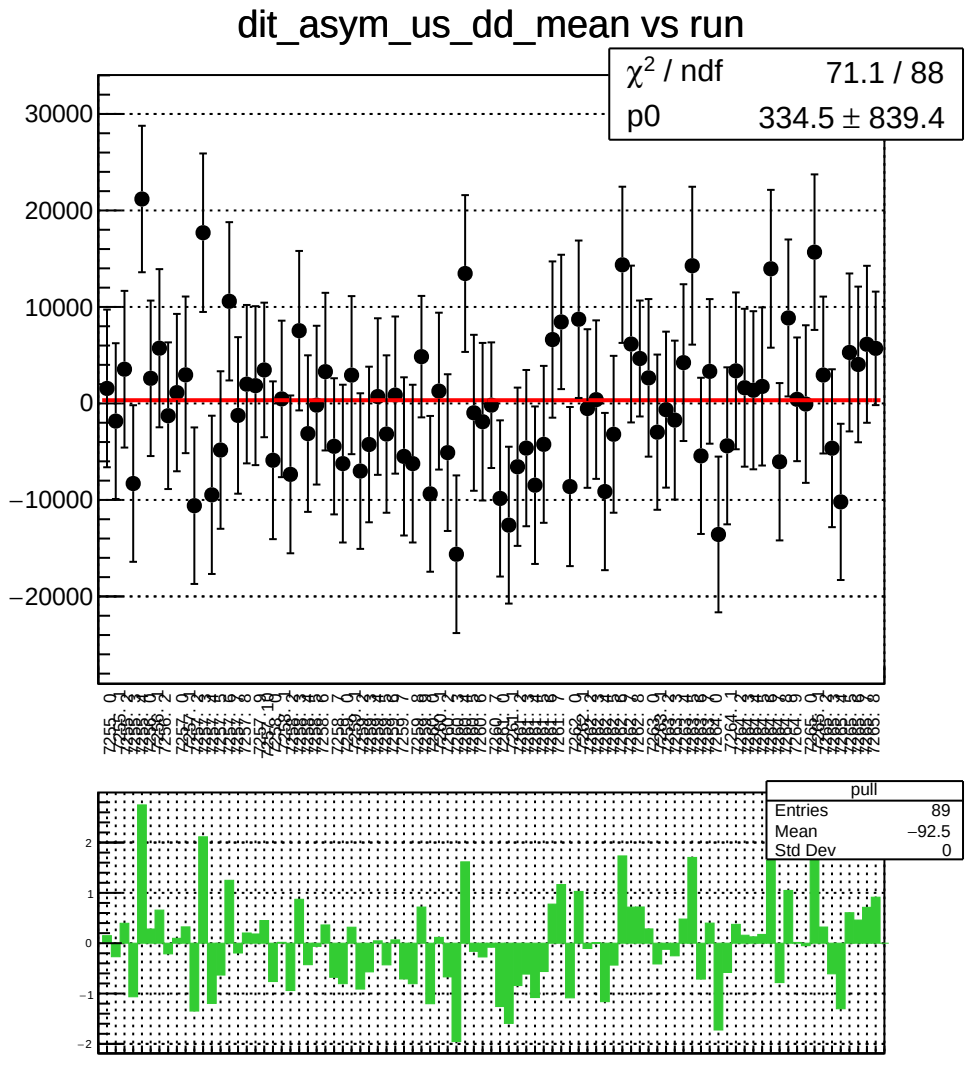

pull1D
Entries 89
Mean −0.01265
Std Dev 0.8932
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

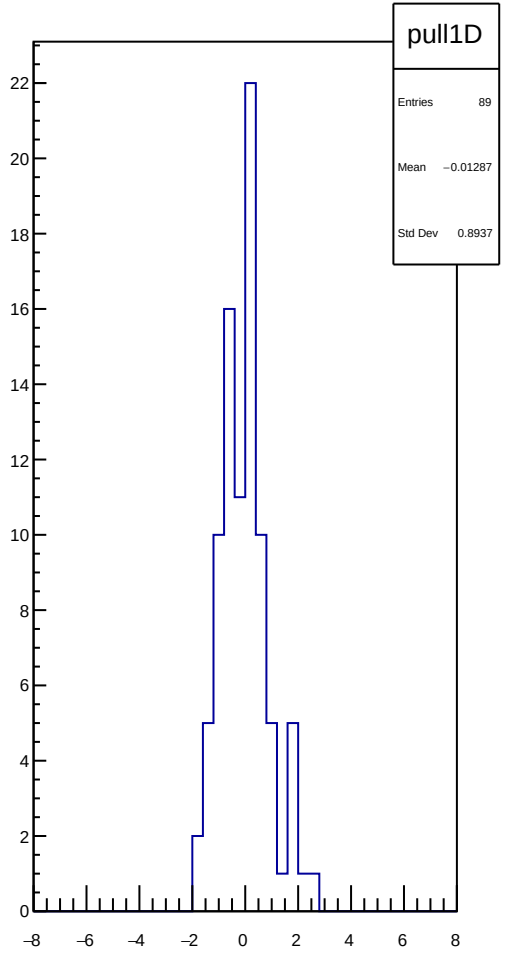

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 67.27 / 88
p0 771.6 ± 0.5926
790
785
780
775
770
765
760
755

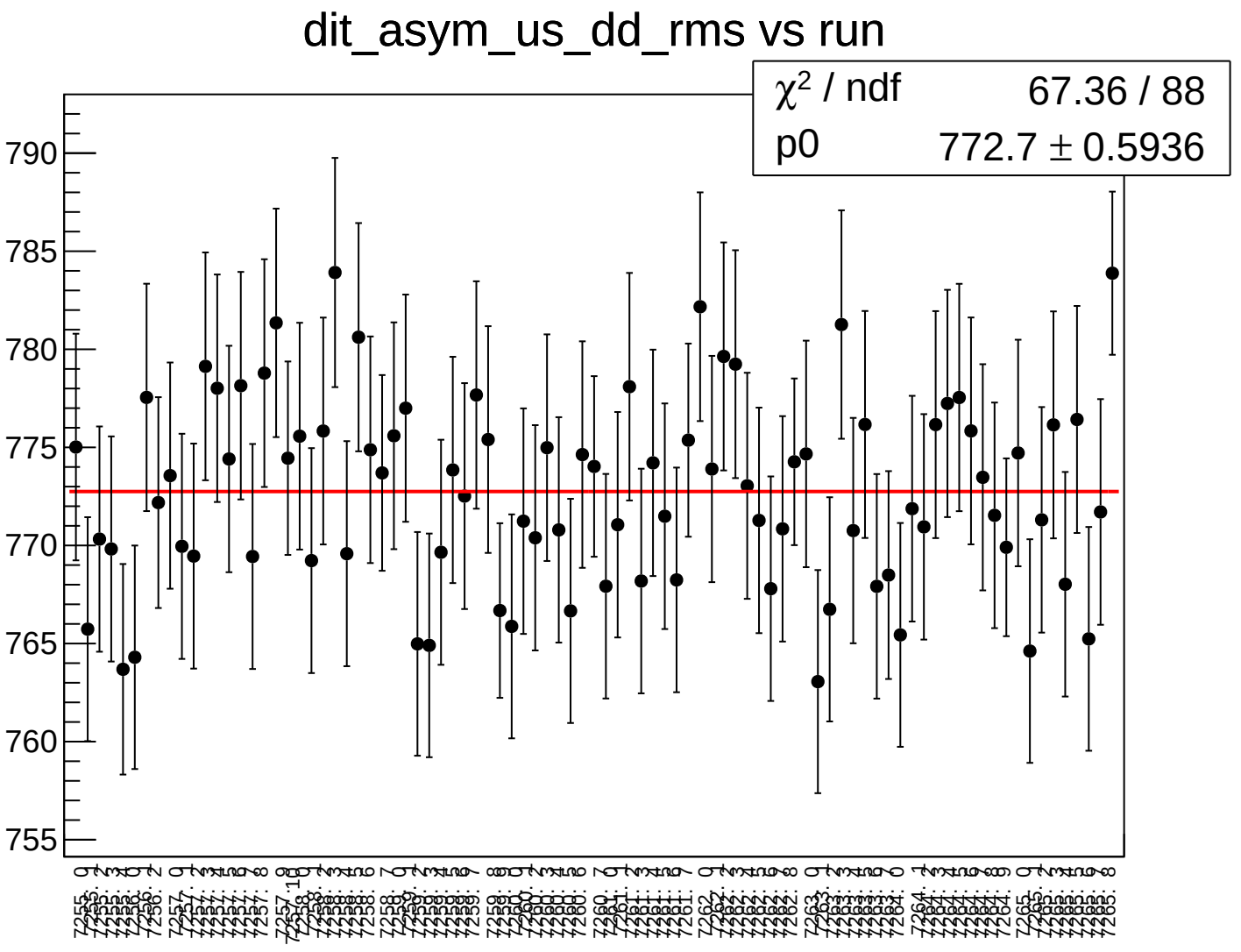

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.97 / 88
p0 −707.1± 462.8
pull
Entries 89
Mean −320.9
Std Dev 0

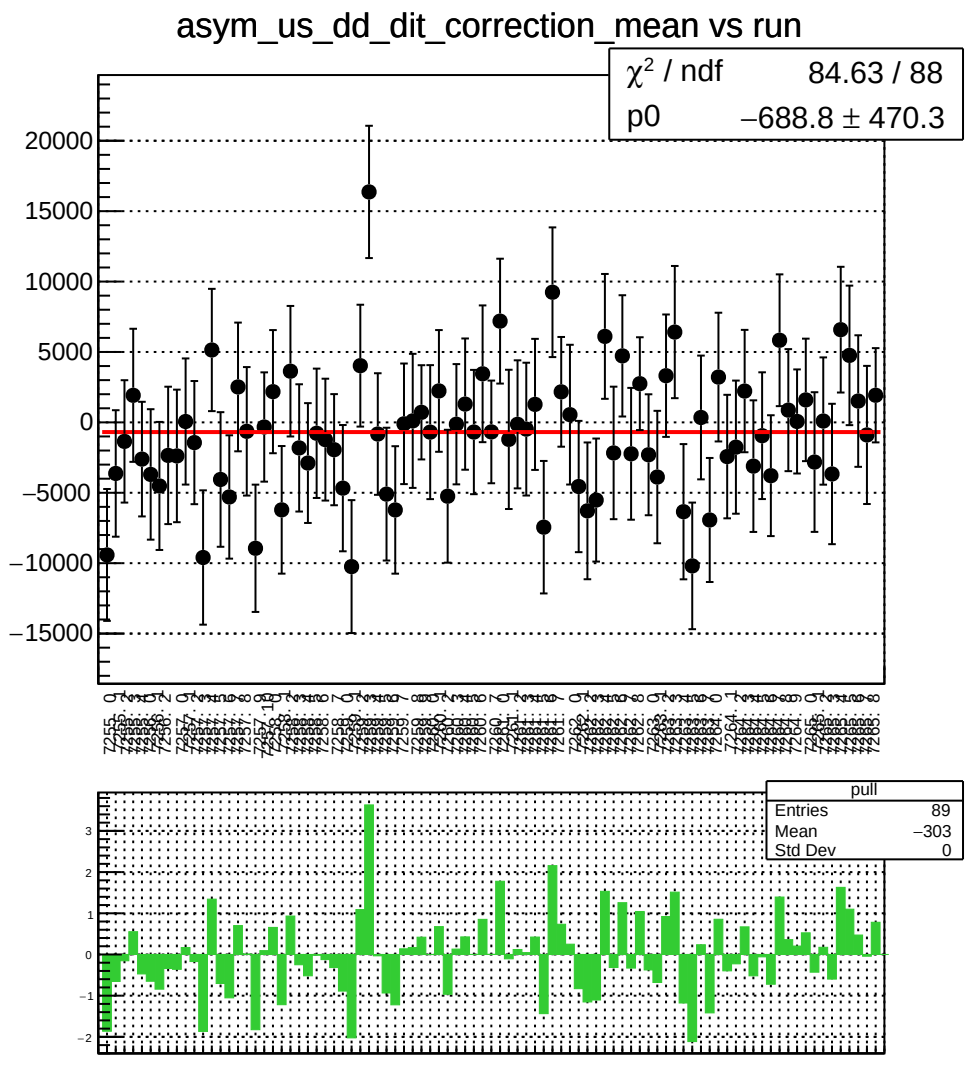

pull1D
Entries 89
Mean −0.01415
Std Dev 0.977

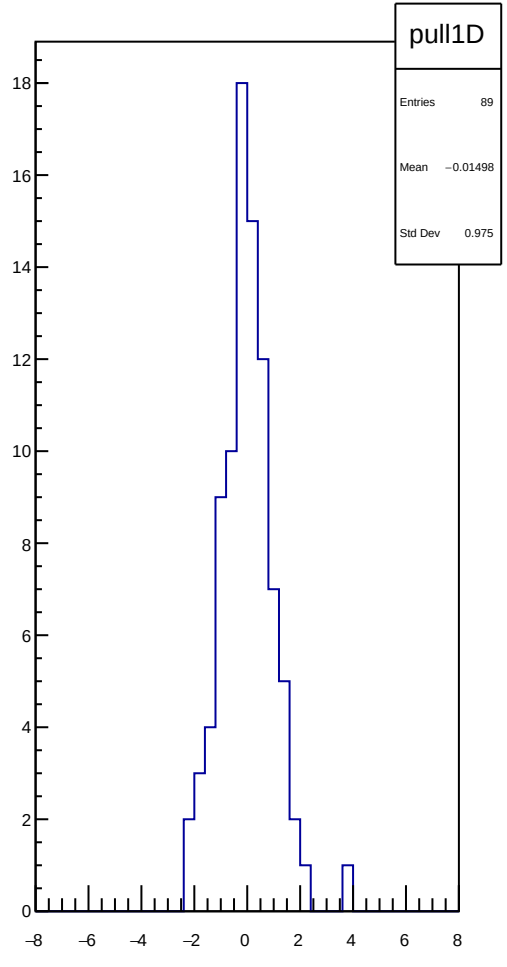

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 3924 / 88
p0 425.6 ± 0.3273
500
480
460
440
420
400
380

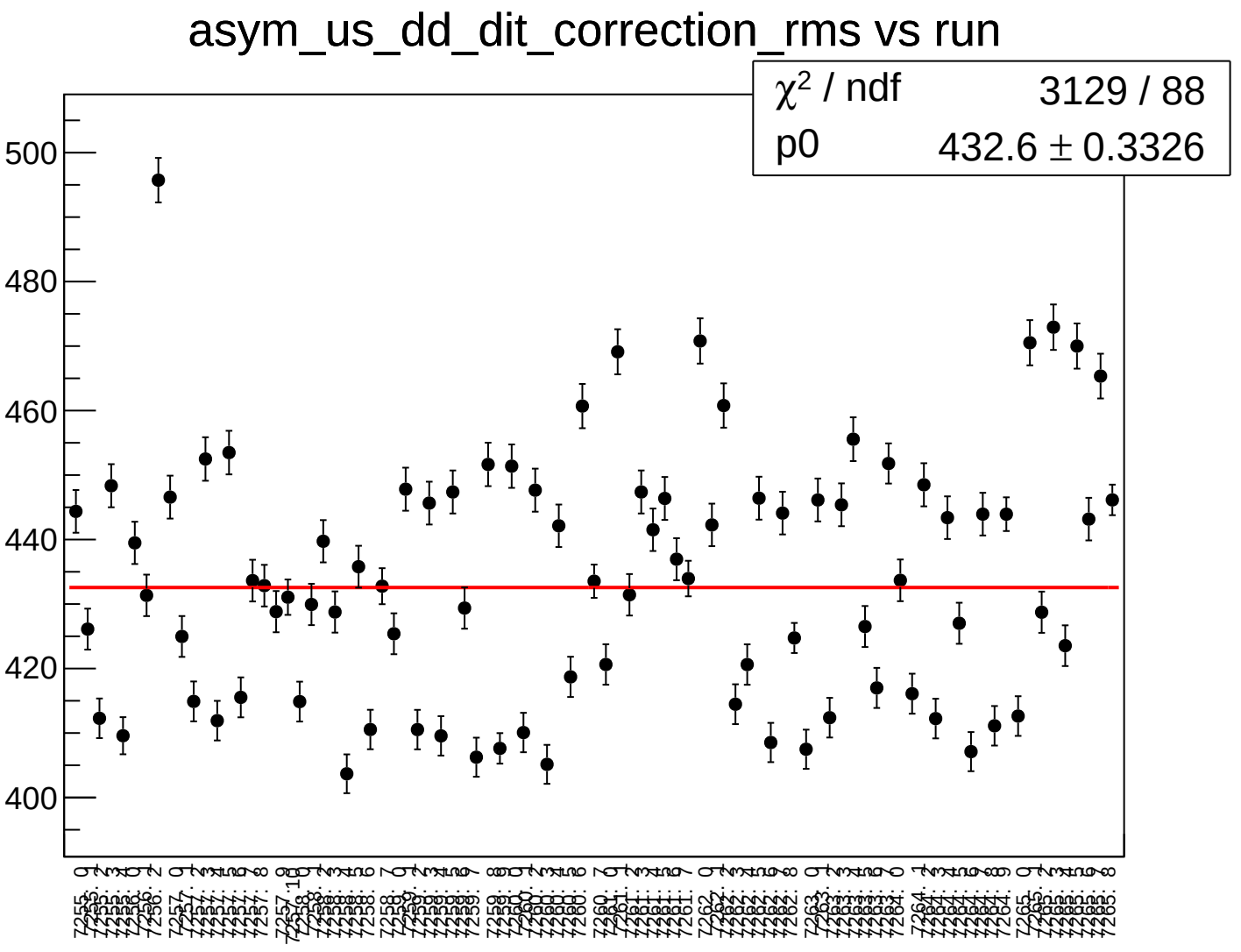

dit_asym_us_dd_mean vs run
χ² / ndf 71.1 / 88
p0 334.5 ± 839.4
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −92.5
Std Dev 0
2
1
0
−1
−2

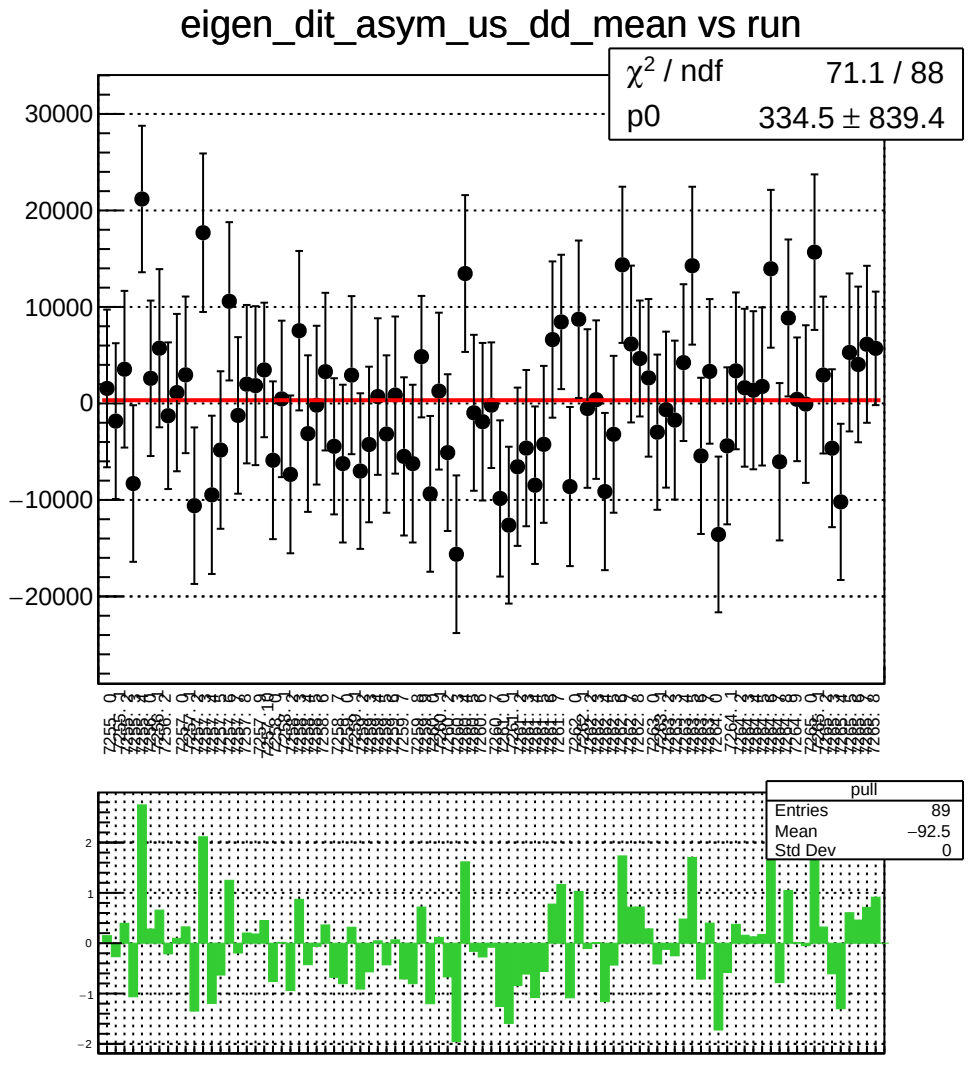

pull1D
Entries 89
Mean −0.01287
Std Dev 0.8937
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

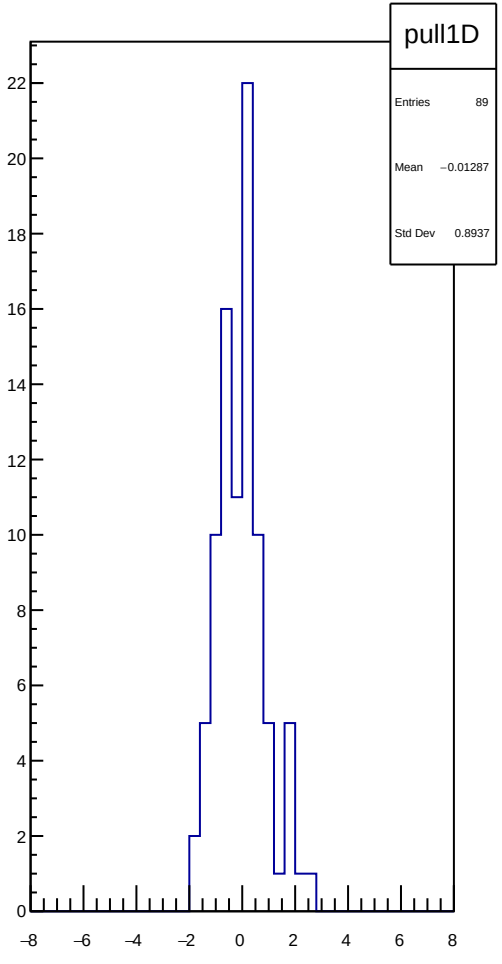

dit_asym_us_dd_rms vs run
χ² / ndf 67.36 / 88
p0 772.7 ± 0.5936
790
785
780
775
770
765
760
755

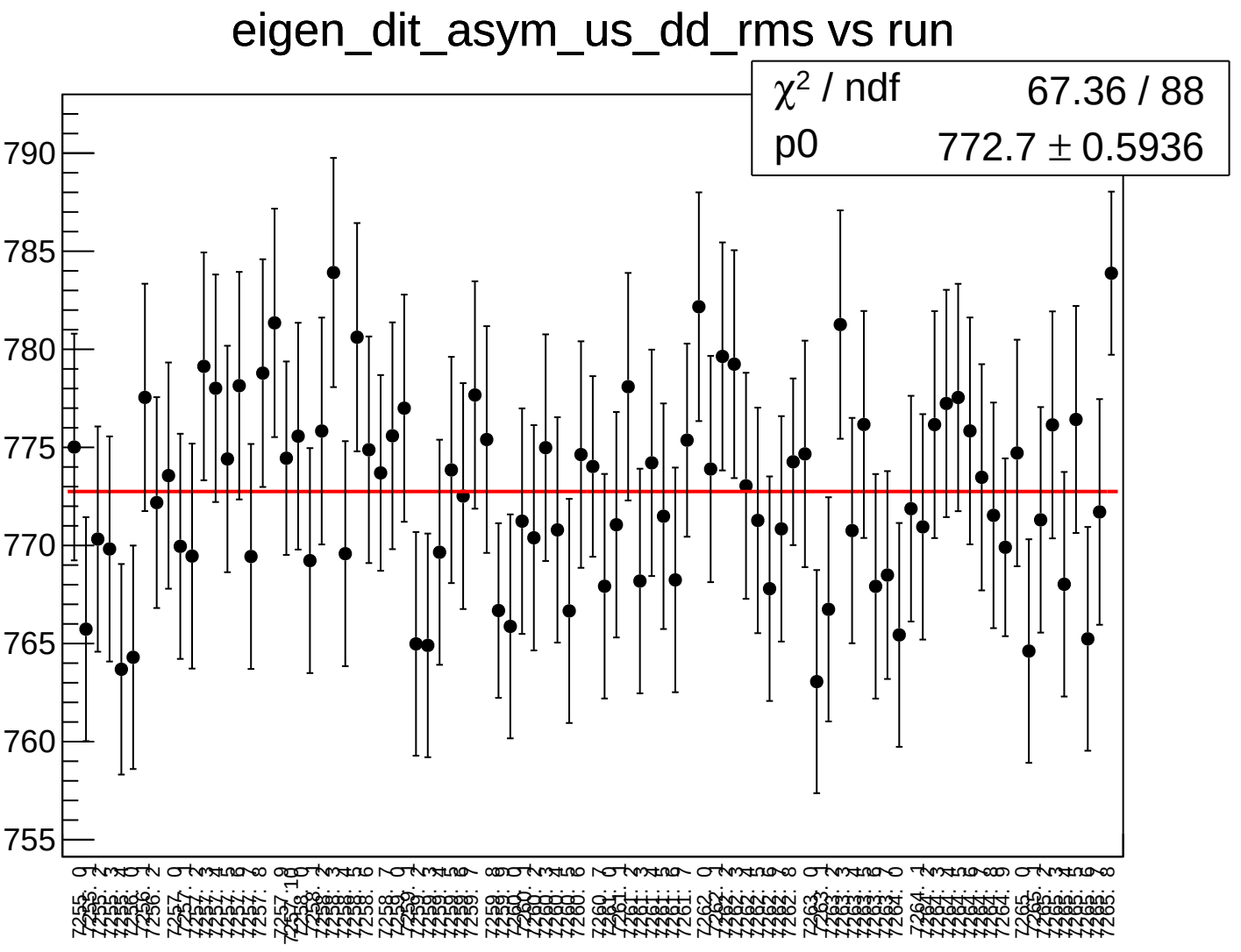

asym_us_dd_dit_correction_mean vs run
χ² / ndf 84.63 / 88
p0 −688.8 ± 470.3
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −303
Std Dev 0
3
2
1
0
−1
−2

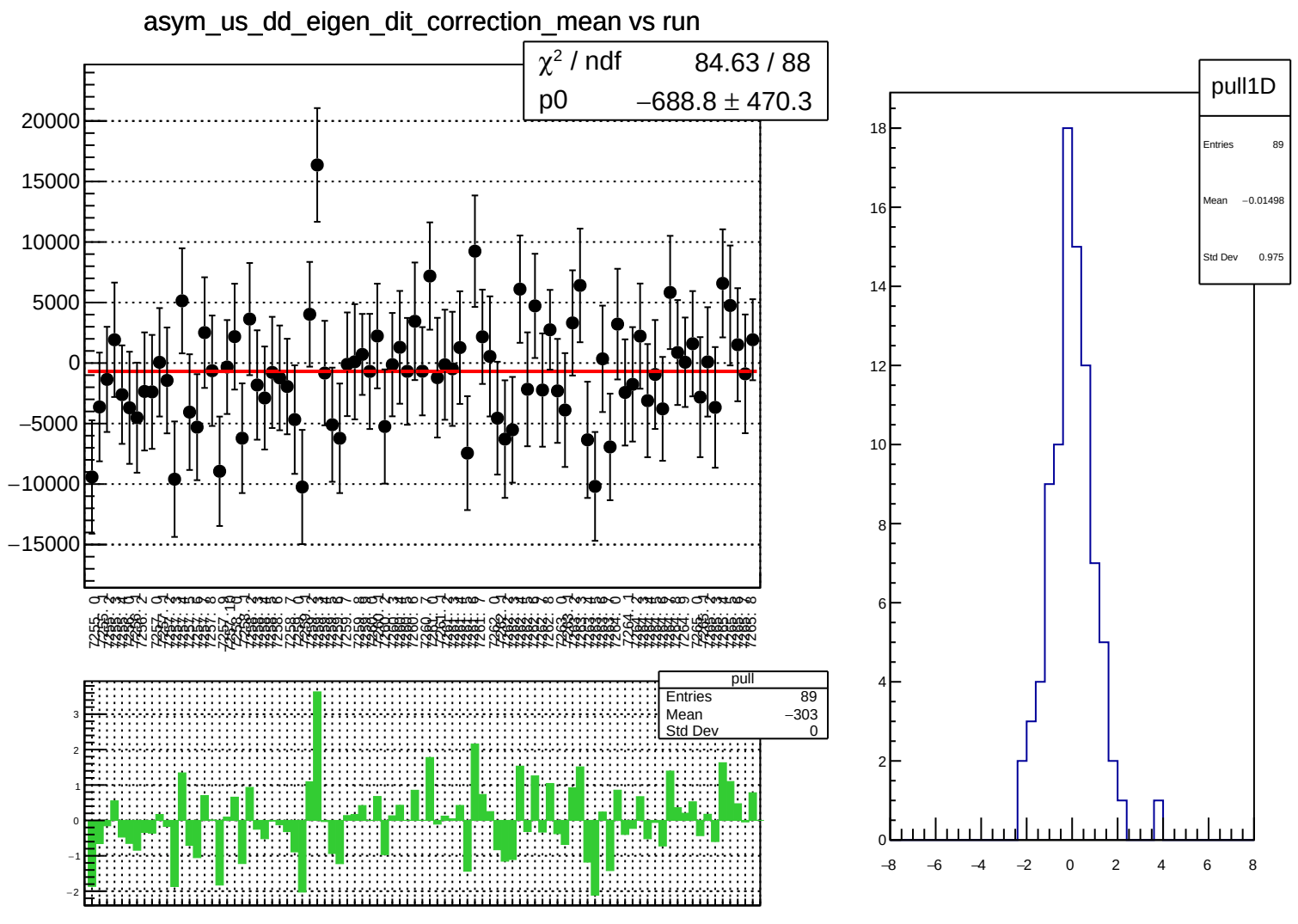

pull1D
Entries 89
Mean −0.01498
Std Dev 0.975
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

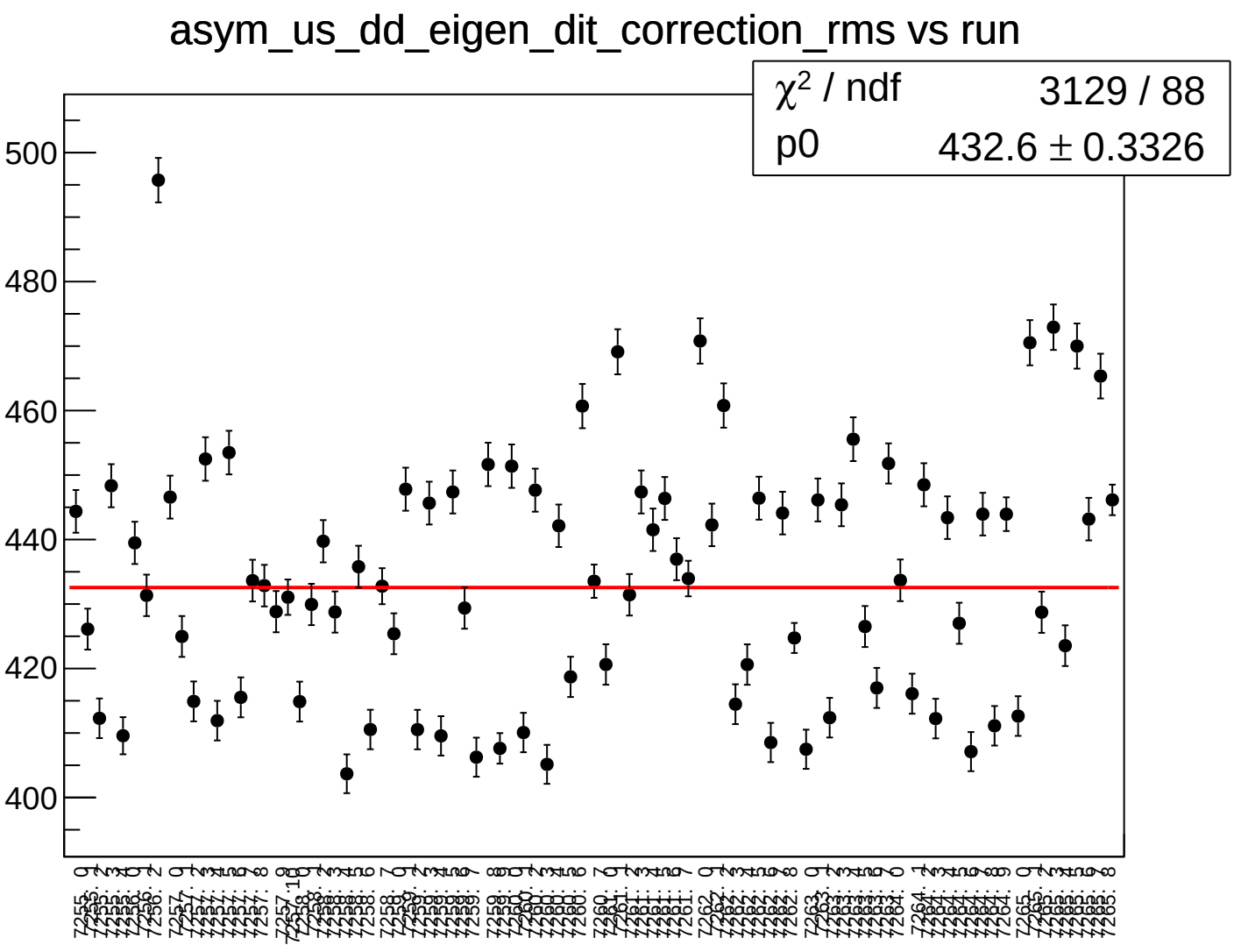

asym_us_dd_dit_correction_rms vs run
χ² / ndf 3129 / 88
p0 432.6 ± 0.3326
500
480
460
440
420
400

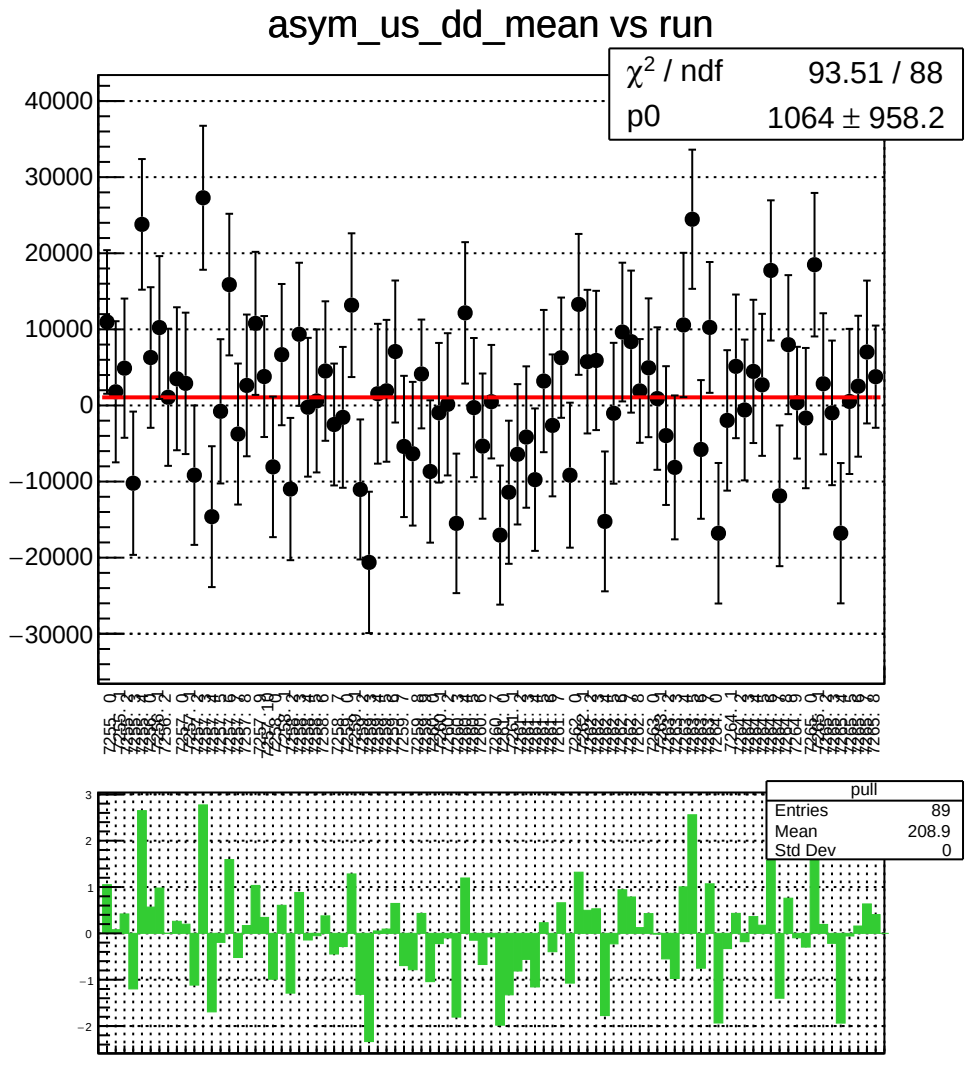

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 71.1 / 88
p0 334.5 ± 839.4
pull
Entries 89
Mean −92.5
Std Dev 0

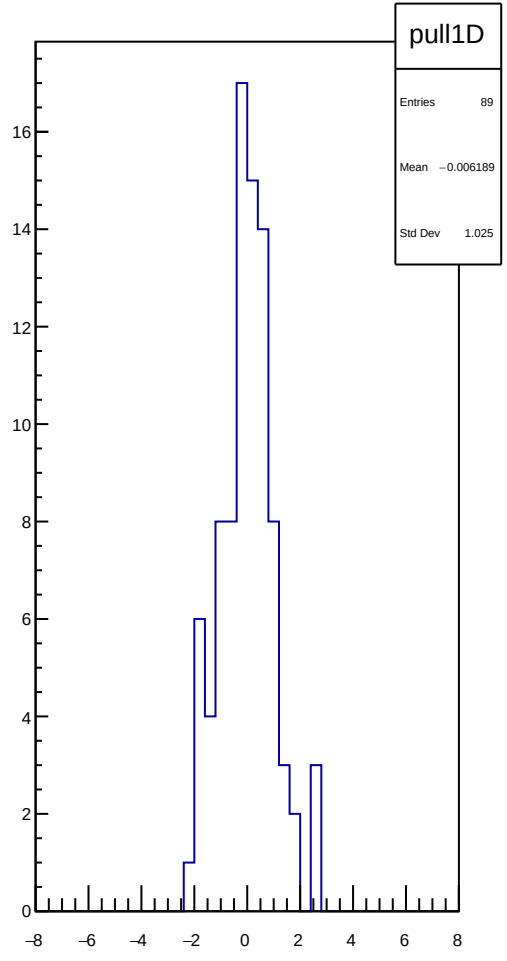

pull1D
Entries 89
Mean −0.01287
Std Dev 0.8937

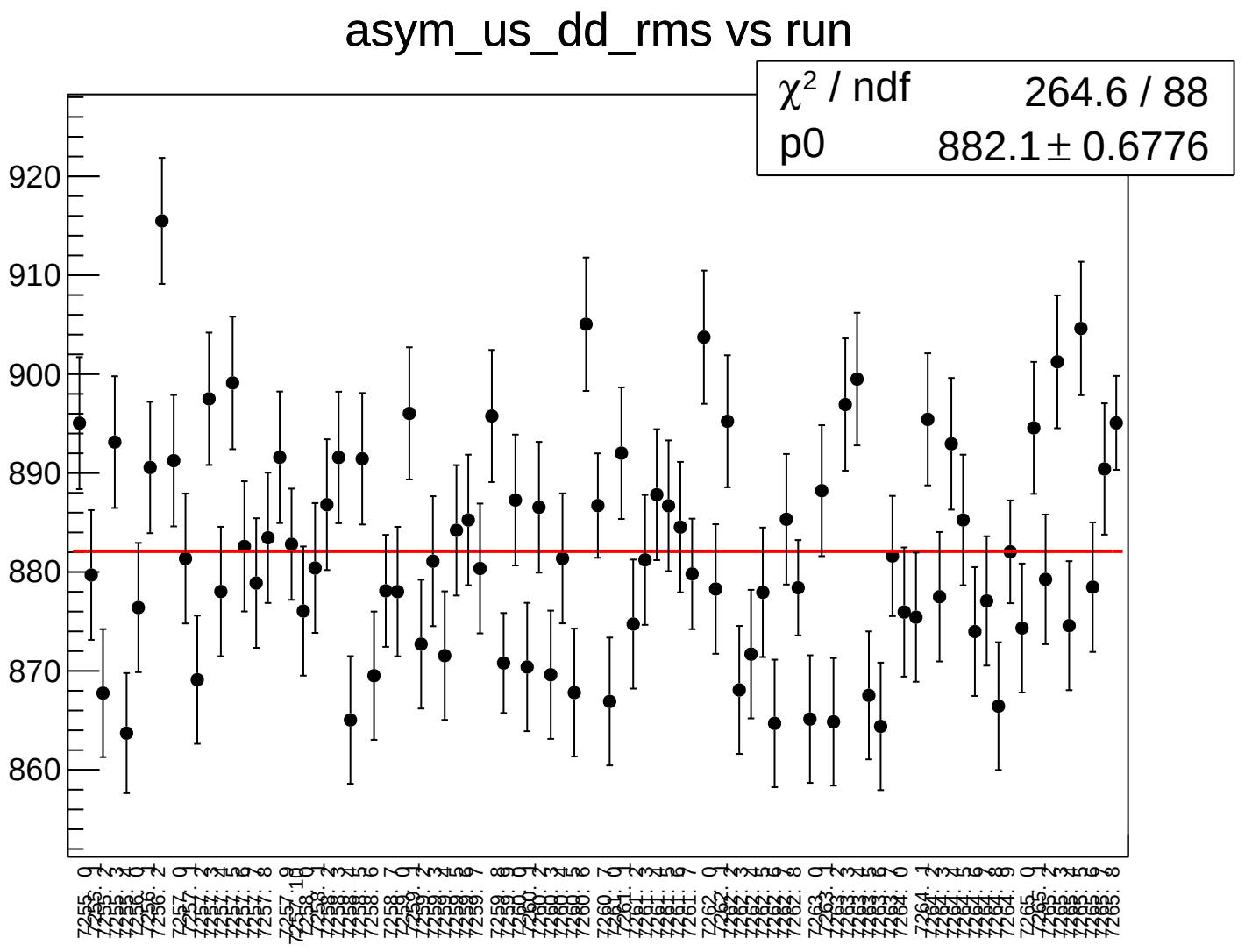

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 67.36 / 88
p0 772.7 ± 0.5936
790
785
780
775
770
765
760
755

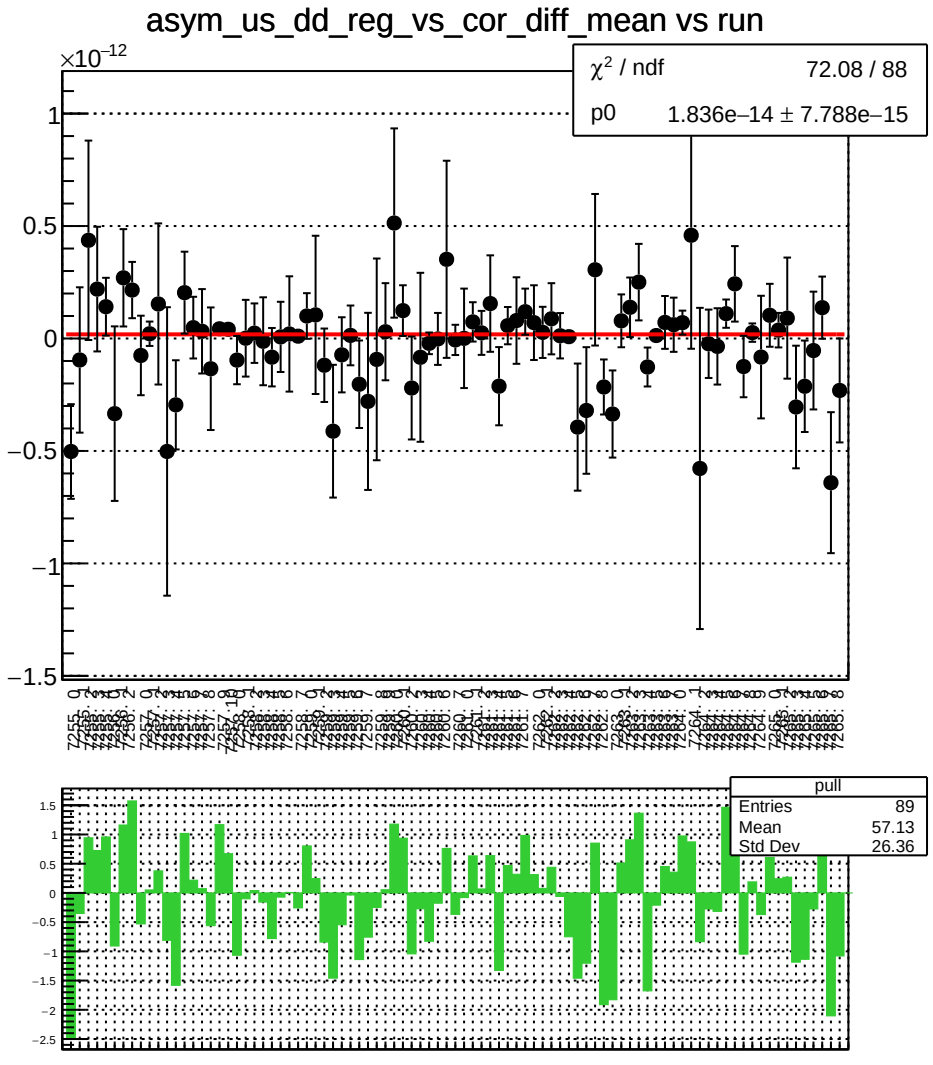

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.63 / 88
p0 −688.8 ± 470.3
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −303
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01498
Std Dev 0.975
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

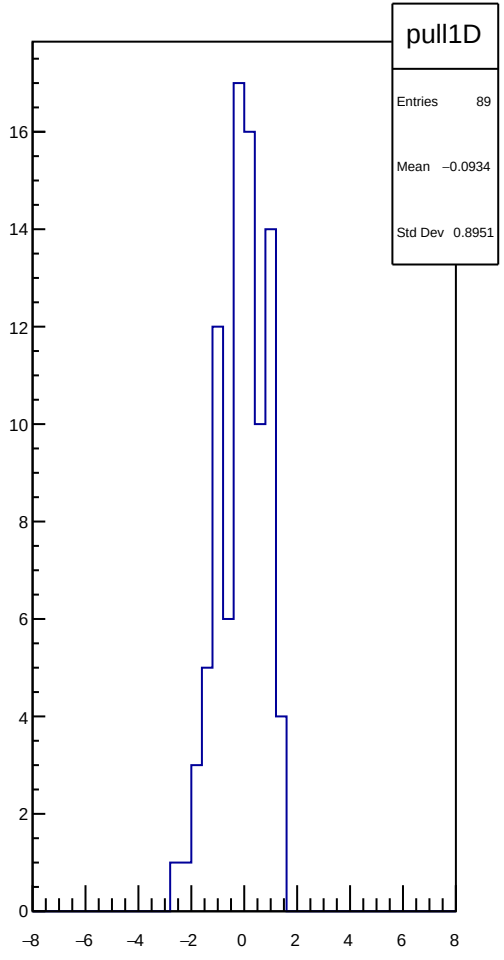

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 3129 / 88
p0 432.6 ± 0.3326
500
480
460
440
420
400

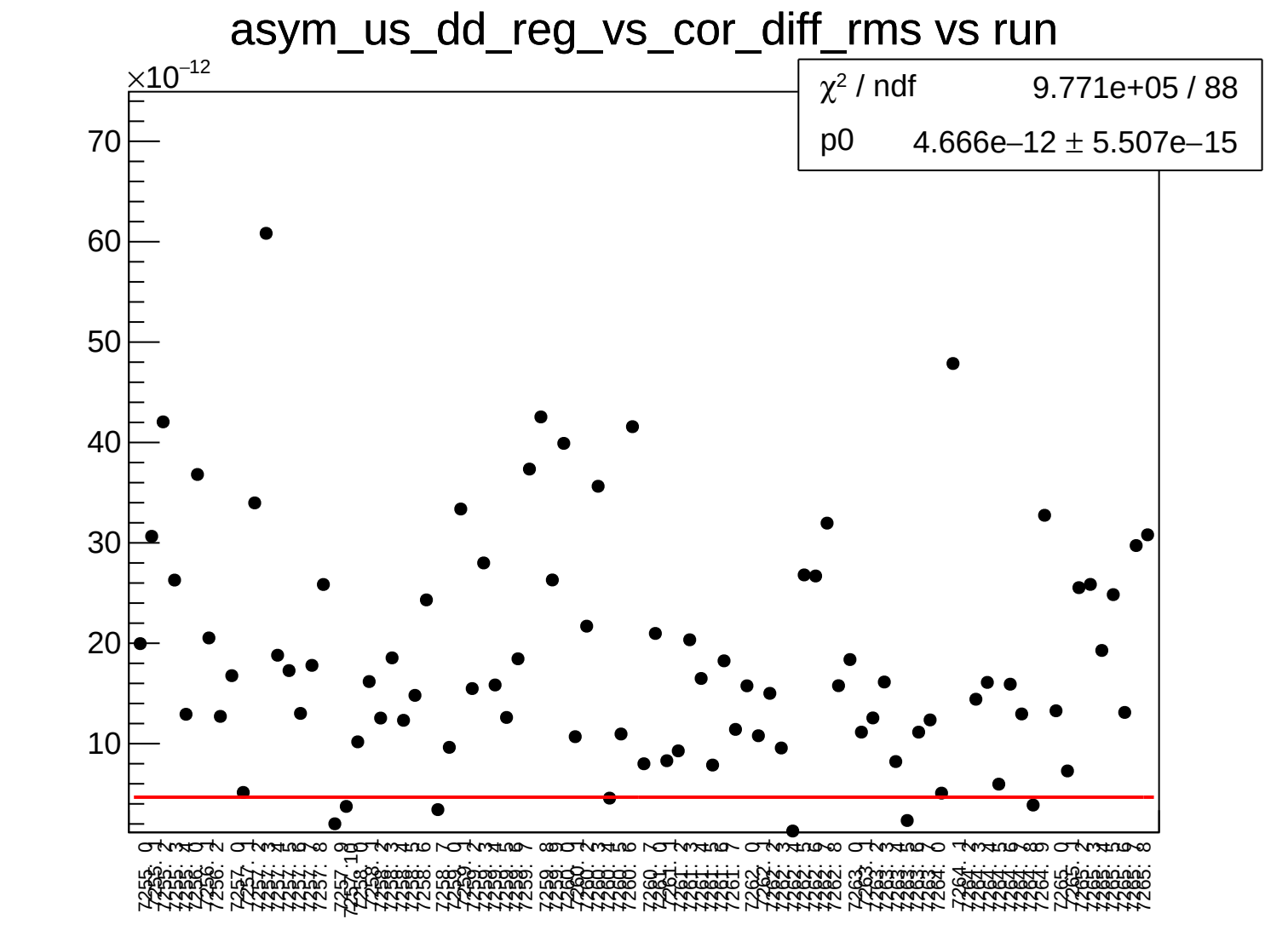

asym_us_dd_mean vs run
χ² / ndf 93.51 / 88
p0 1064 ± 958.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 208.9
Std Dev 0
3
2
1
0
−1
−2

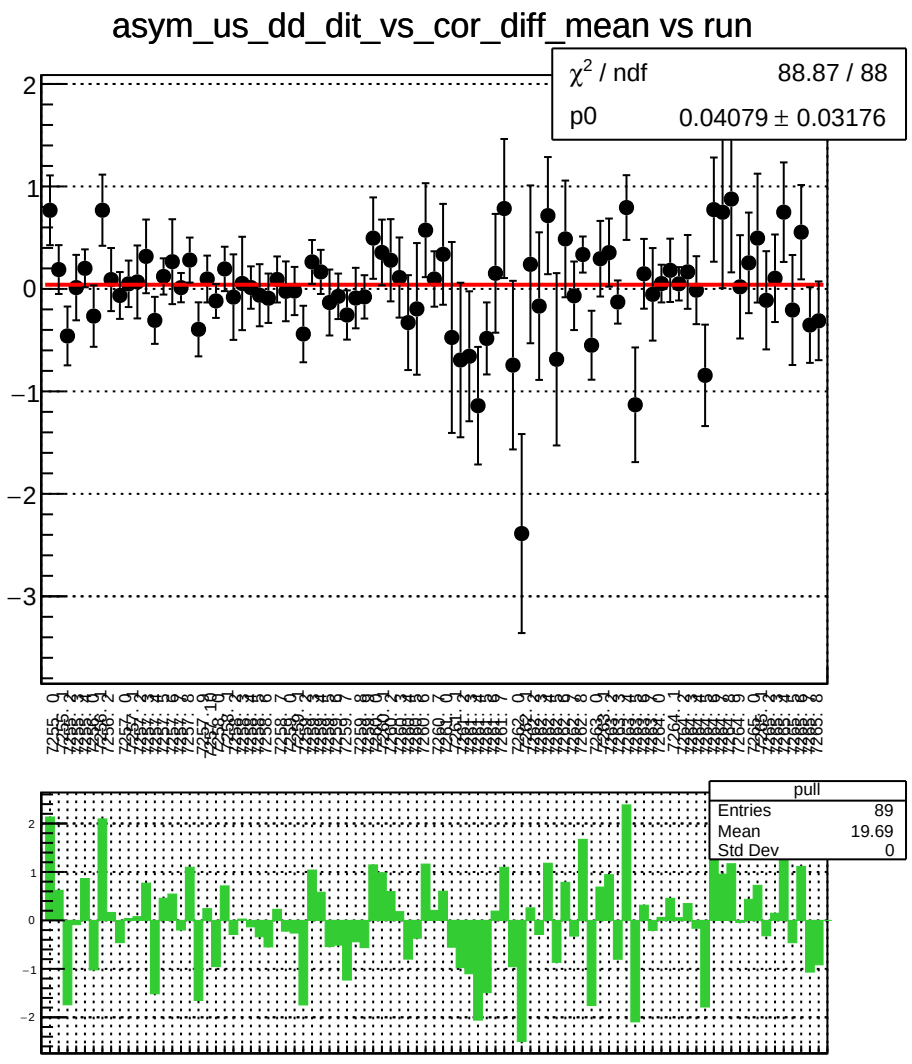

pull1D
Entries 89
Mean −0.006189
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

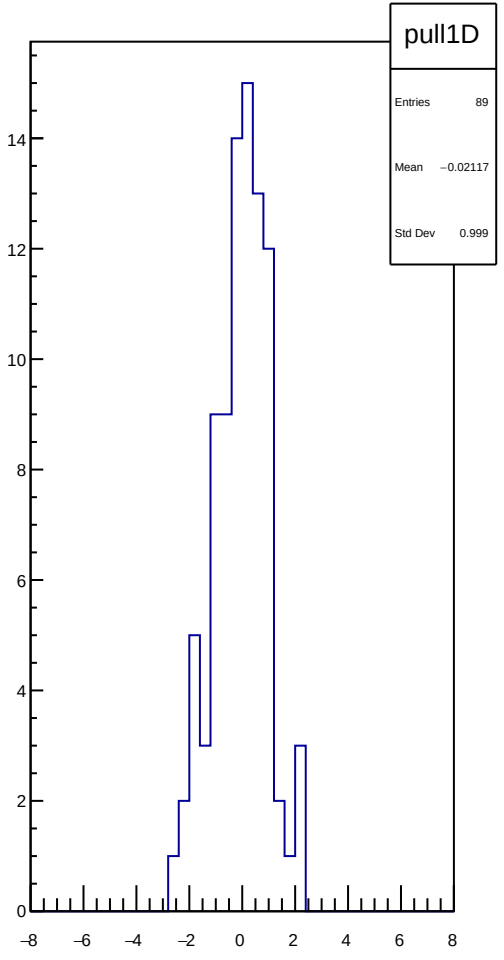

asym_us_dd_rms vs run
χ² / ndf 264.6 / 88
p0 882.1 ± 0.6776
920
910
900
890
880
870
860

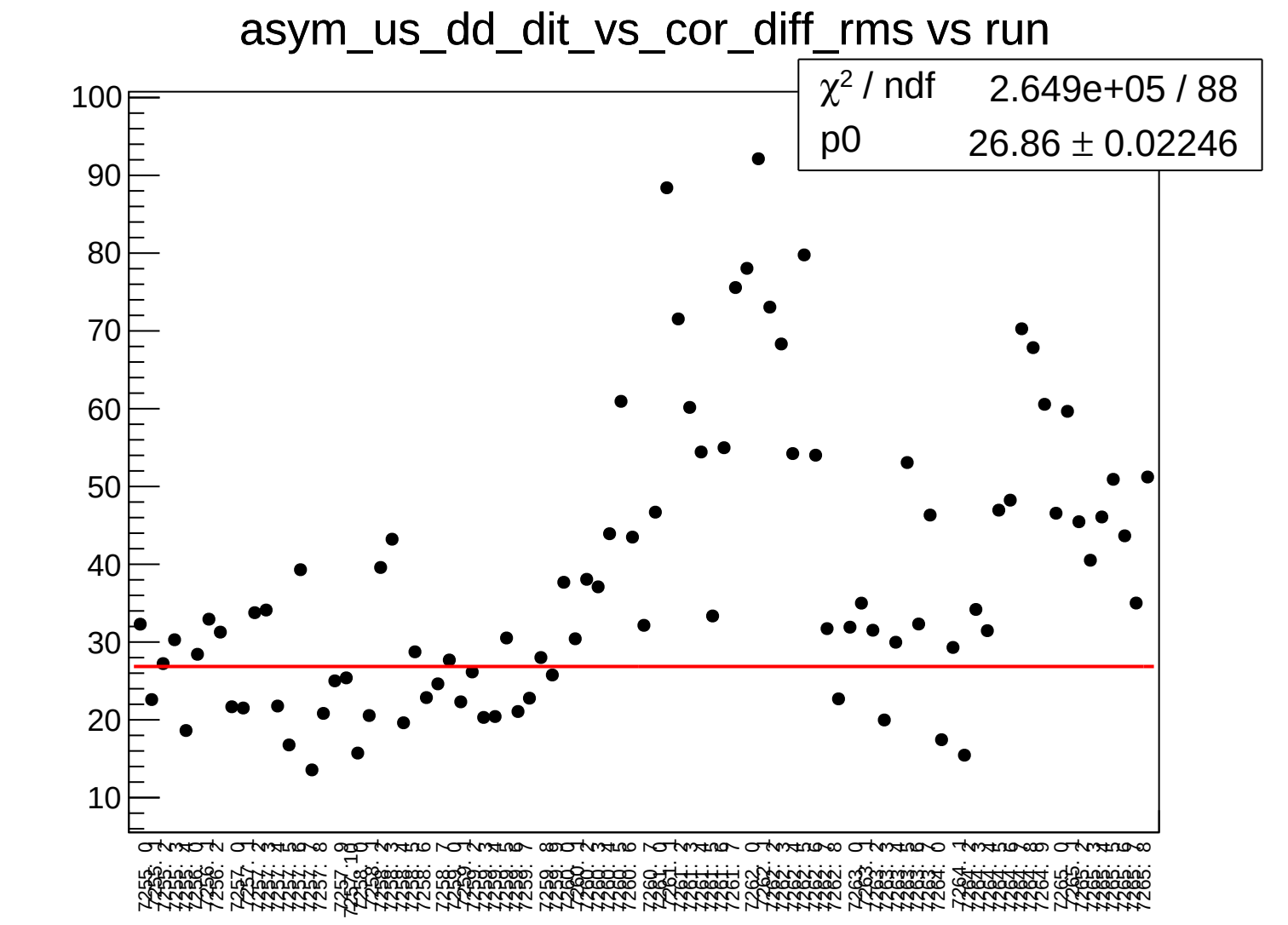

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.08 / 88
p0 1.836e−14 ± 7.788e−15
pull
Entries 89
Mean 57.13
Std Dev 26.36

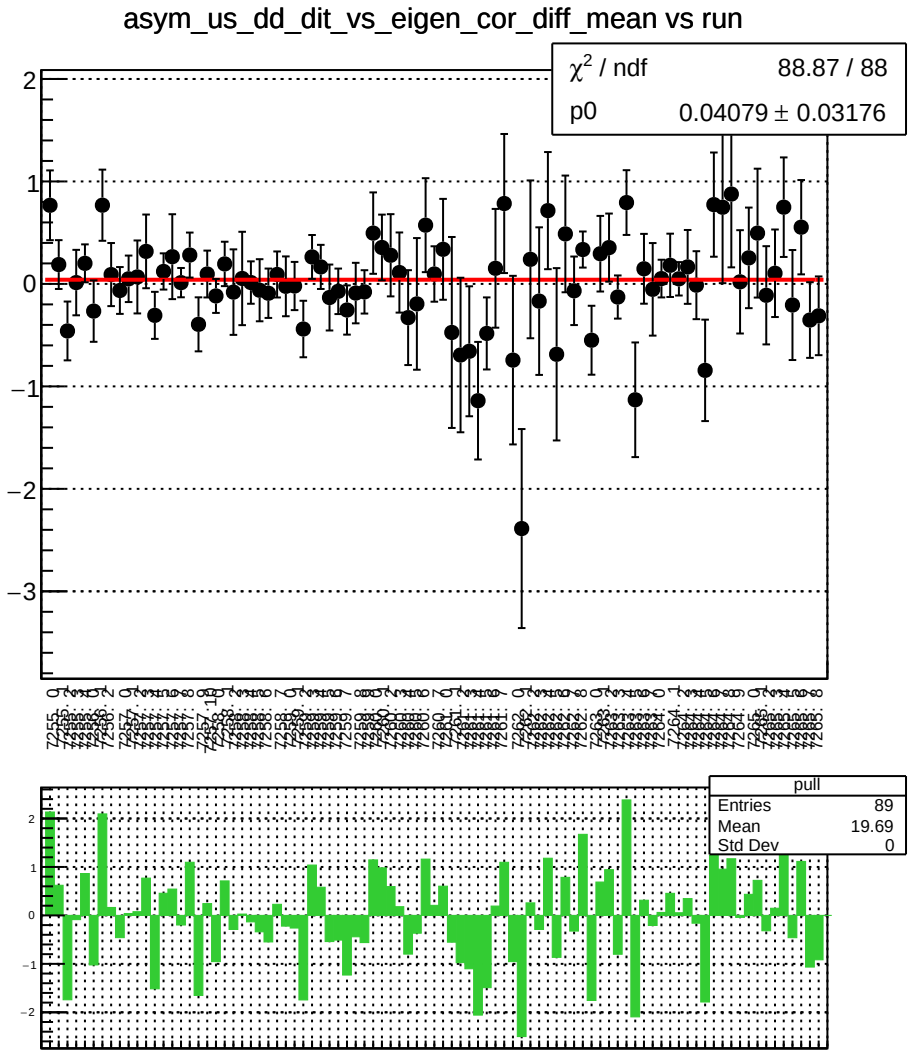

pull1D
Entries 89
Mean −0.0934
Std Dev 0.8951

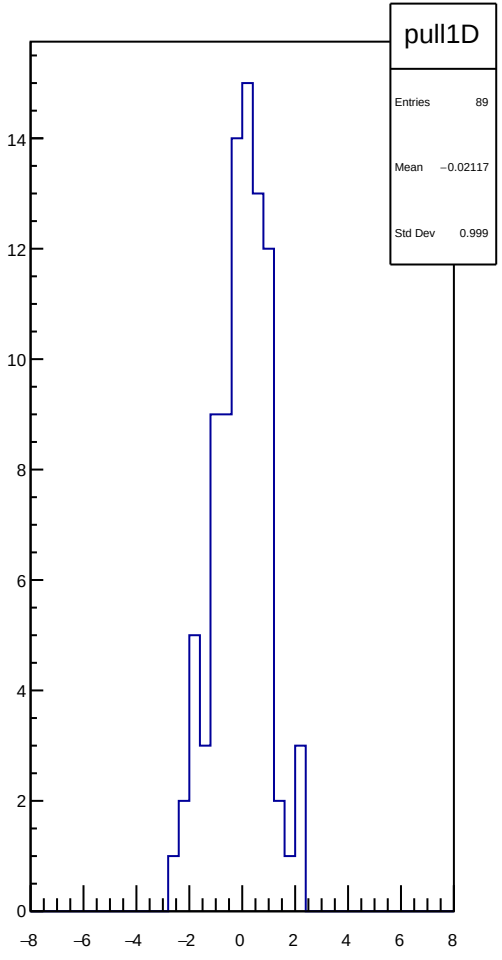

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.771e+05 / 88
p0 4.666e−12 ± 5.507e−15
70
60
50
40
30
20
10

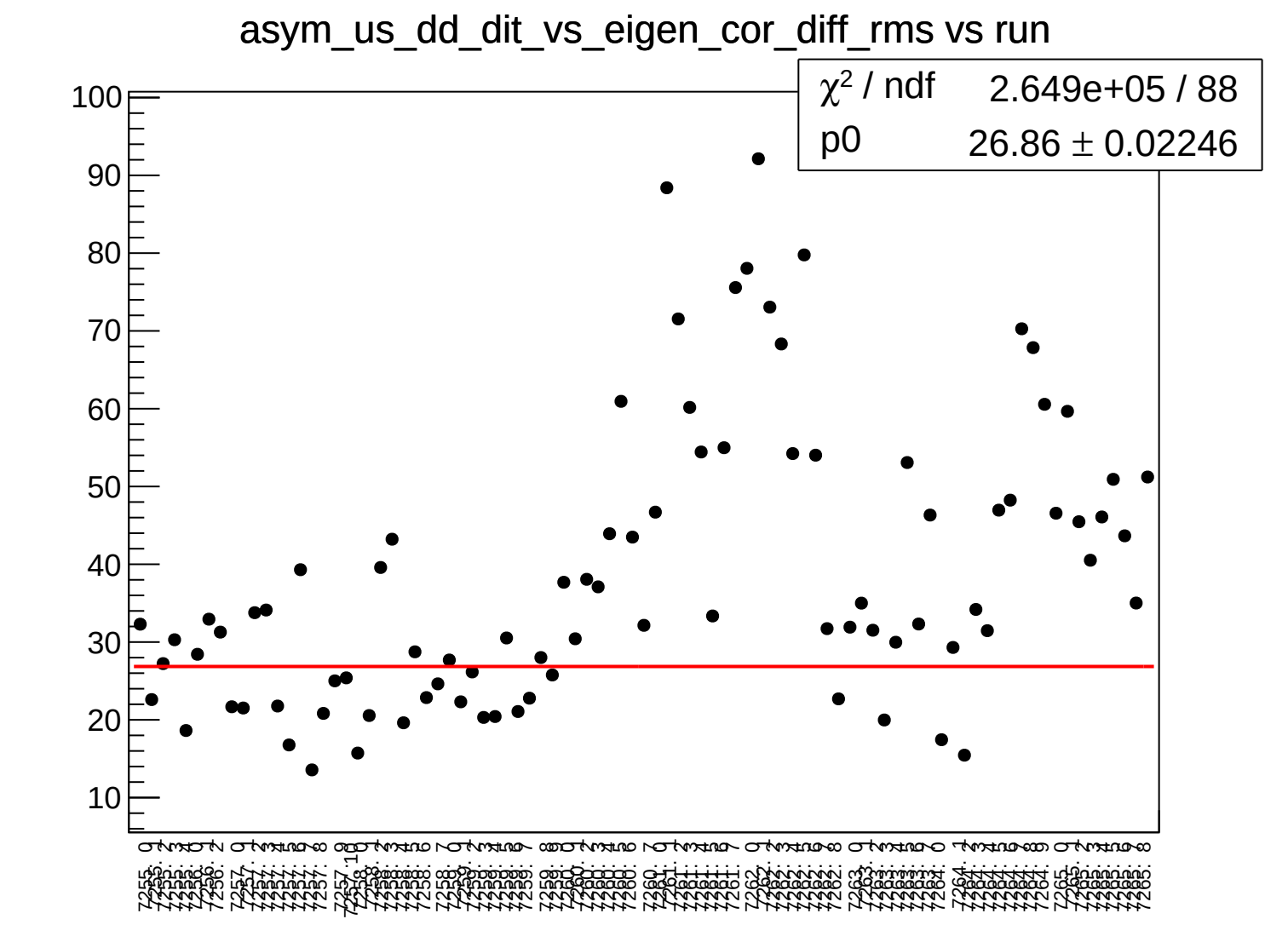

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.87 / 88
p0 0.04079 ± 0.03176
pull
Entries 89
Mean 19.69
Std Dev 0

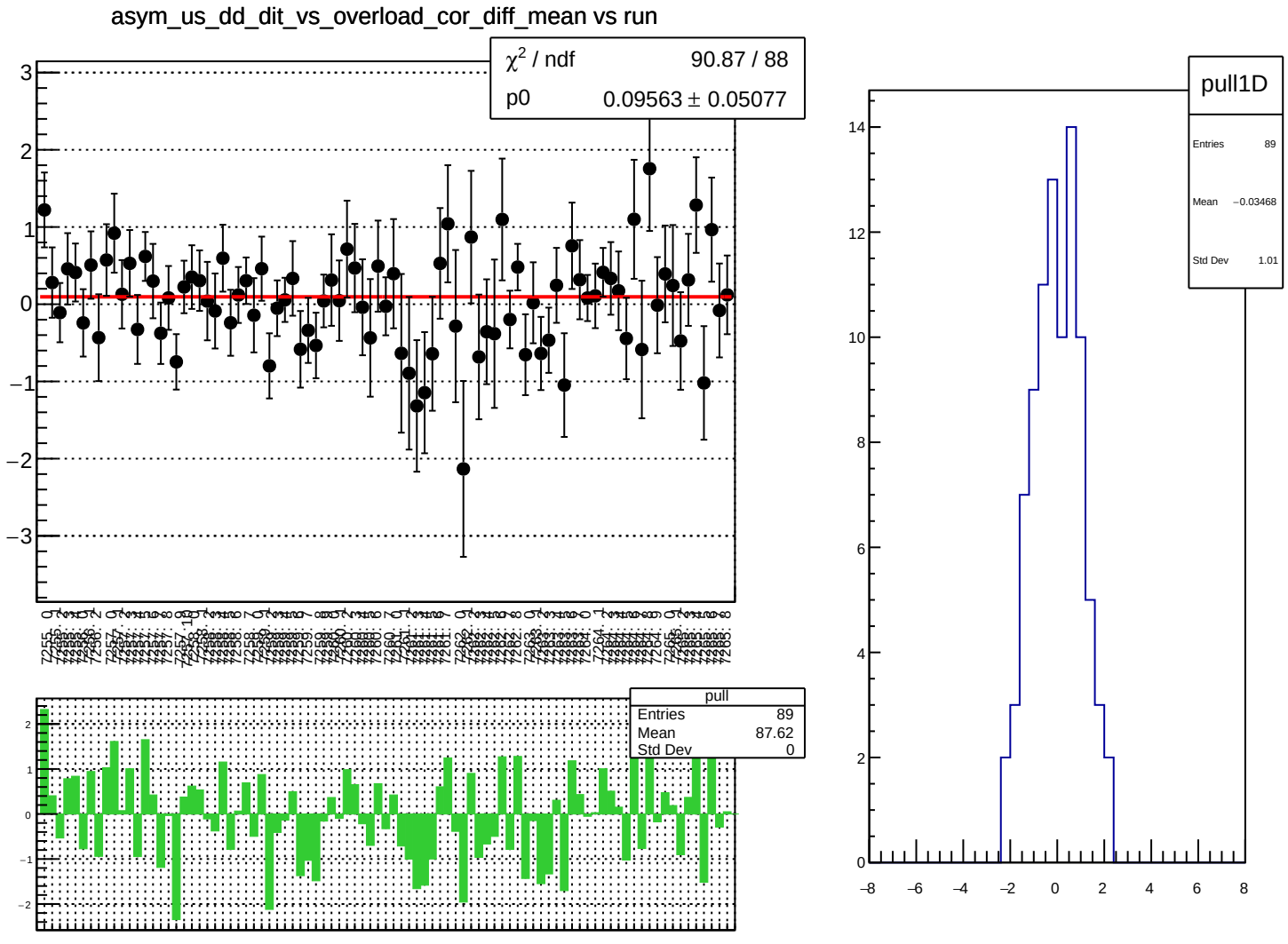

pull1D
Entries 89
Mean −0.02117
Std Dev 0.999

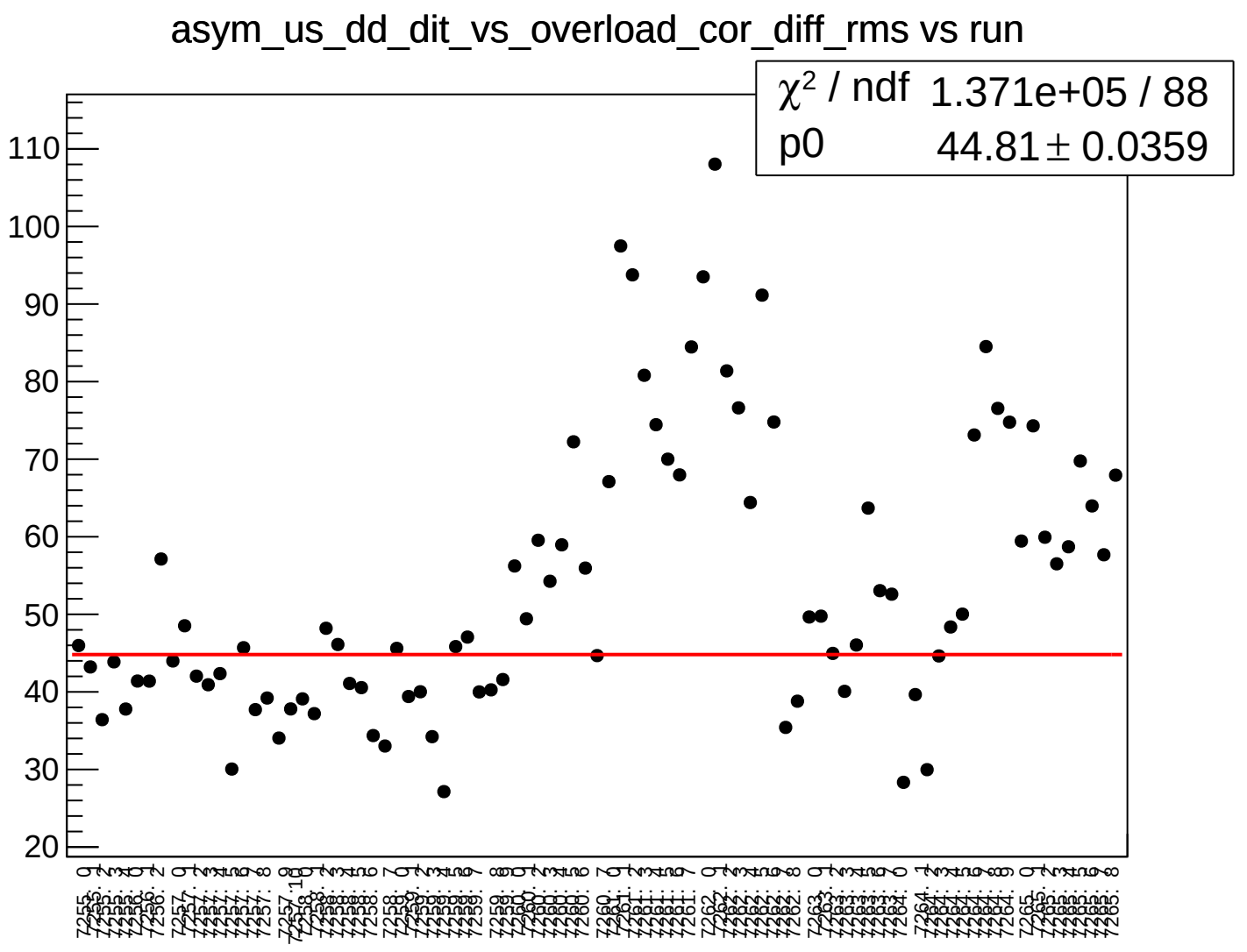

asym_us_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.649e+05 / 88
p0 26.86 ± 0.02246
100
90
80
70
60
50
40
30
20
10

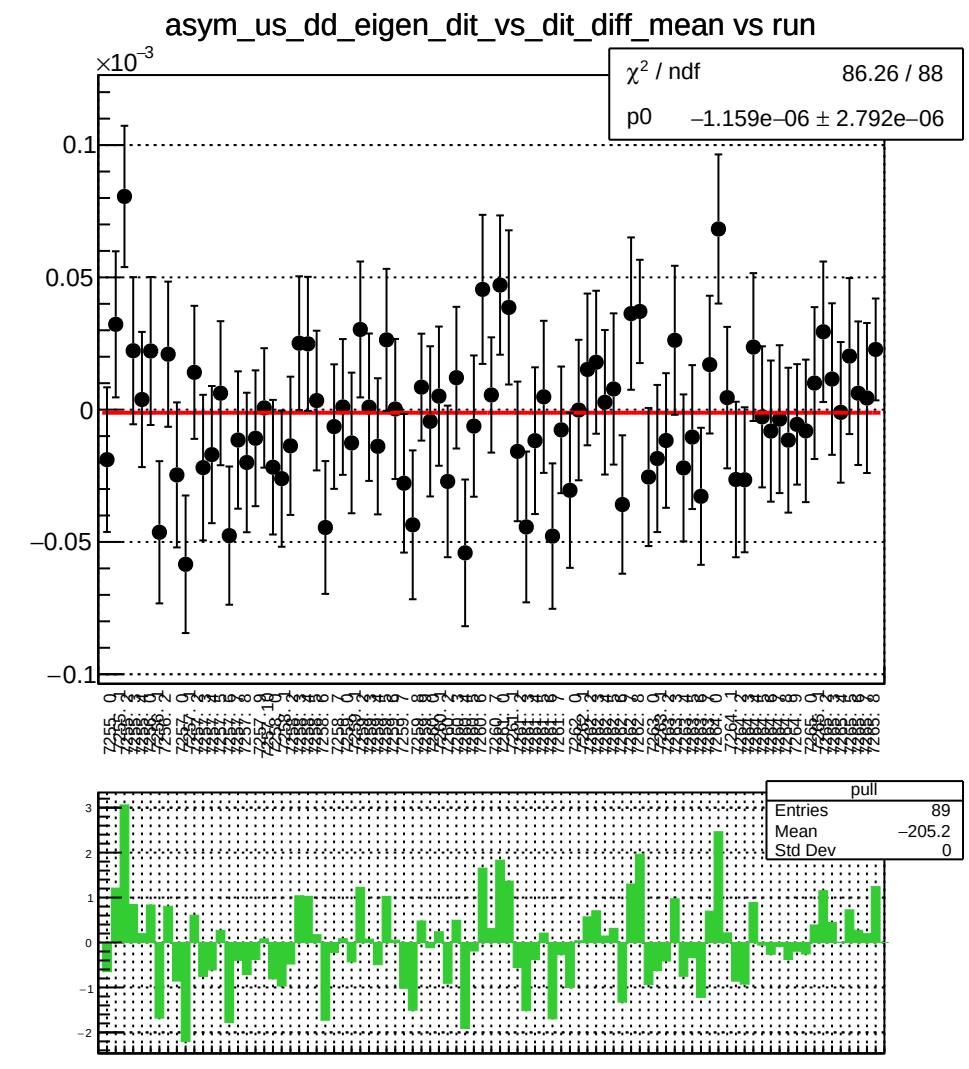

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.87 / 88
p0 0.04079 ± 0.03176
pull
Entries 89
Mean 19.69
Std Dev 0

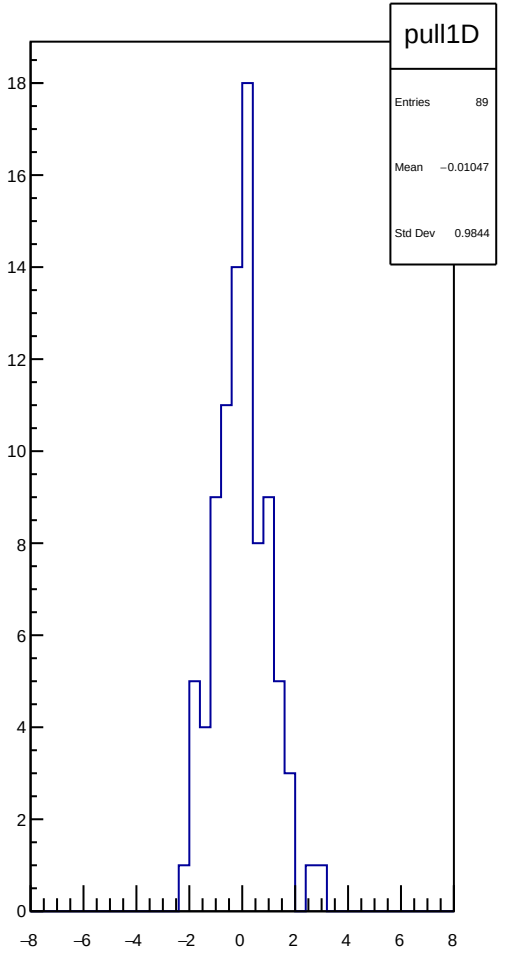

pull1D
Entries 89
Mean −0.02117
Std Dev 0.999

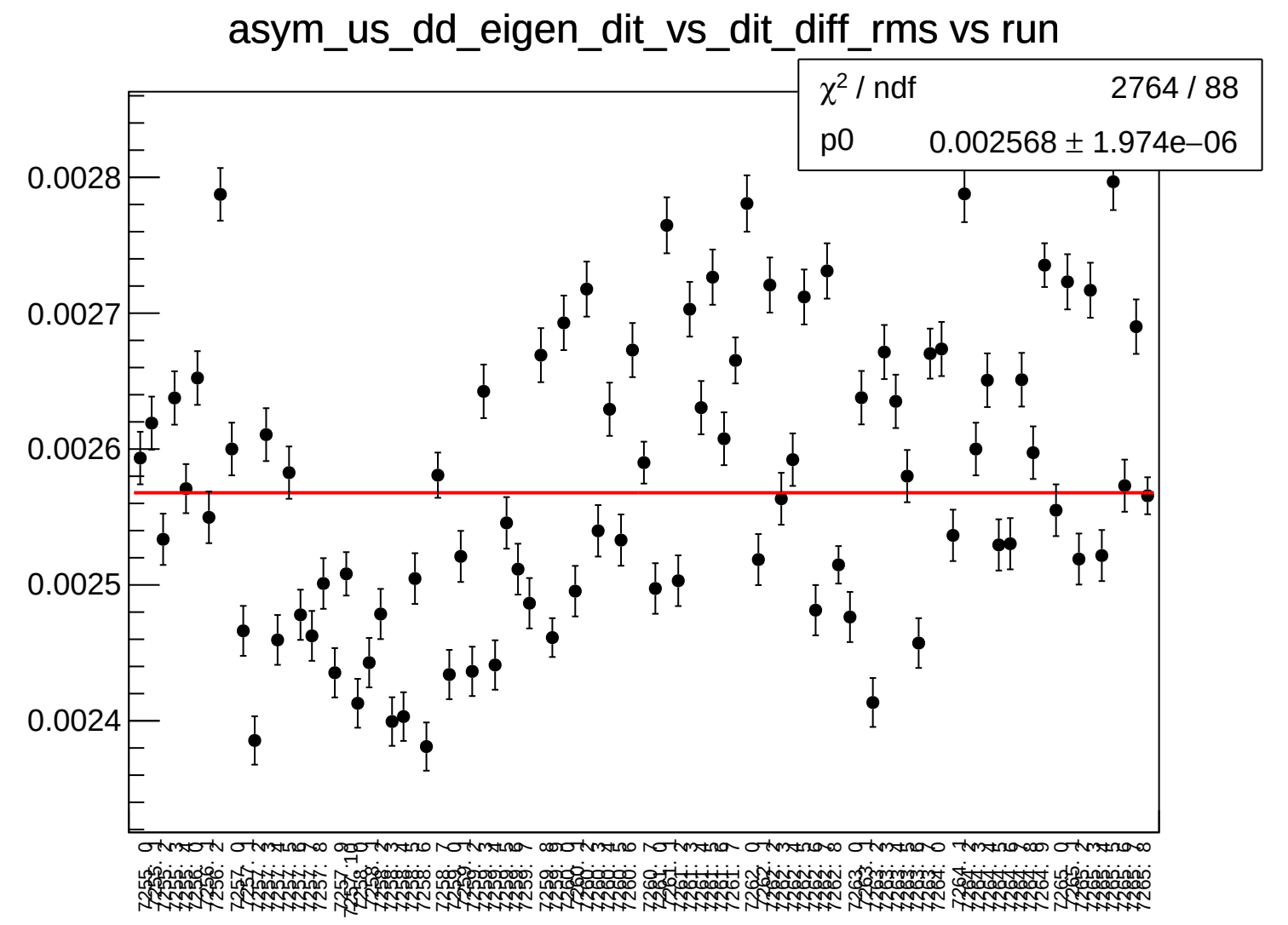

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.649e+05 / 88
p0 26.86 ± 0.02246
100
90
80
70
60
50
40
30
20
10

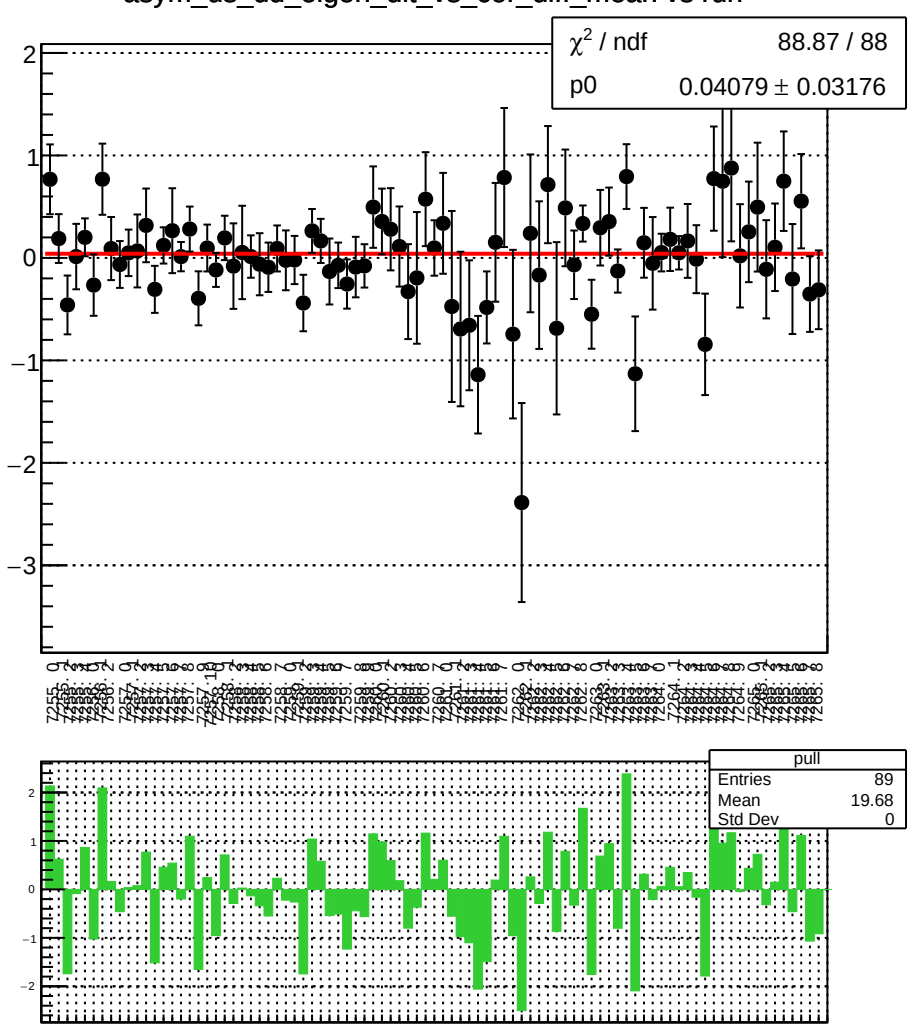

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.87 / 88
p0 0.09563 ± 0.05077
pull
Entries 89
Mean 87.62
Std Dev 0
pull1D
Entries 89
Mean −0.03468
Std Dev 1.01

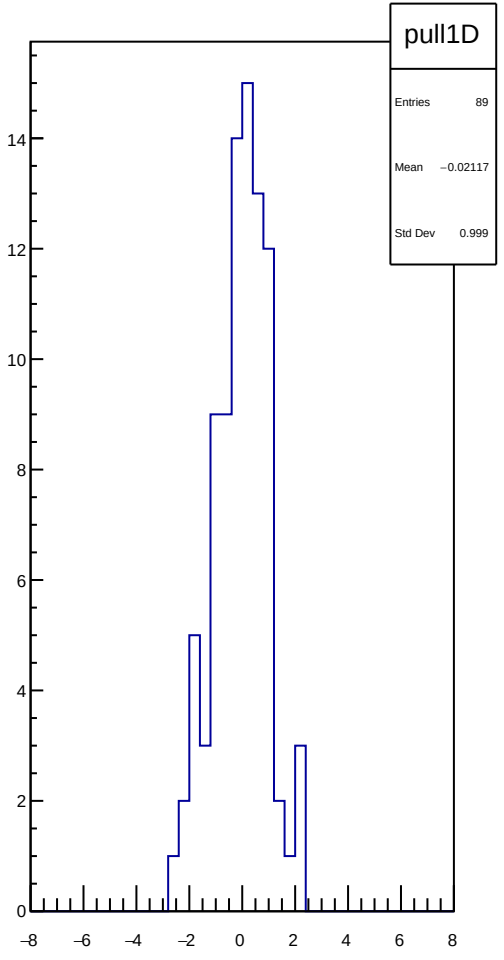

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.371e+05 / 88
p0 44.81 ± 0.0359
110
100
90
80
70
60
50
40
30
20

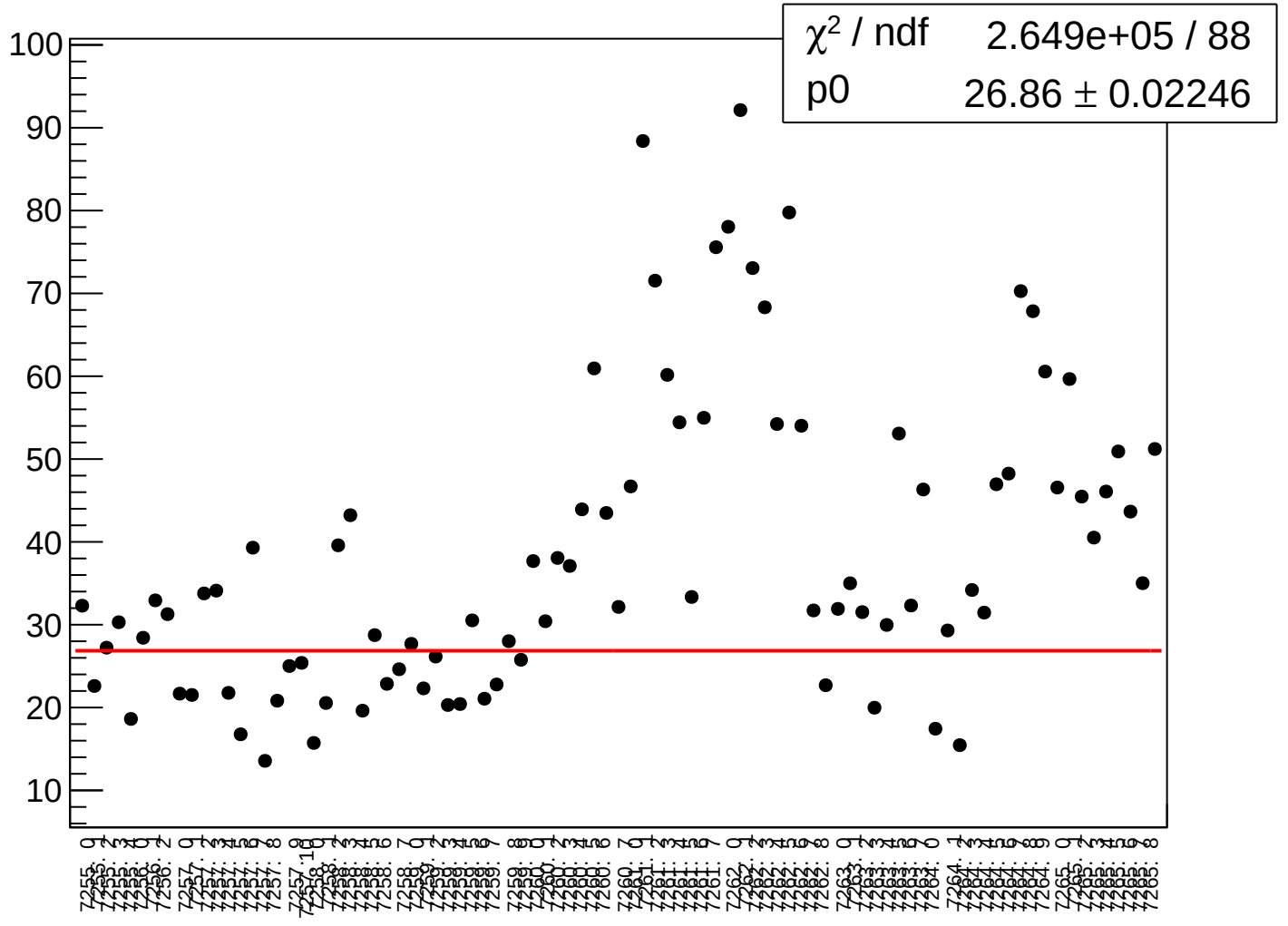

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.26 / 88
p0 −1.159e−06 ± 2.792e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −205.2
Std Dev 0
3
2
1
0
−1
−2

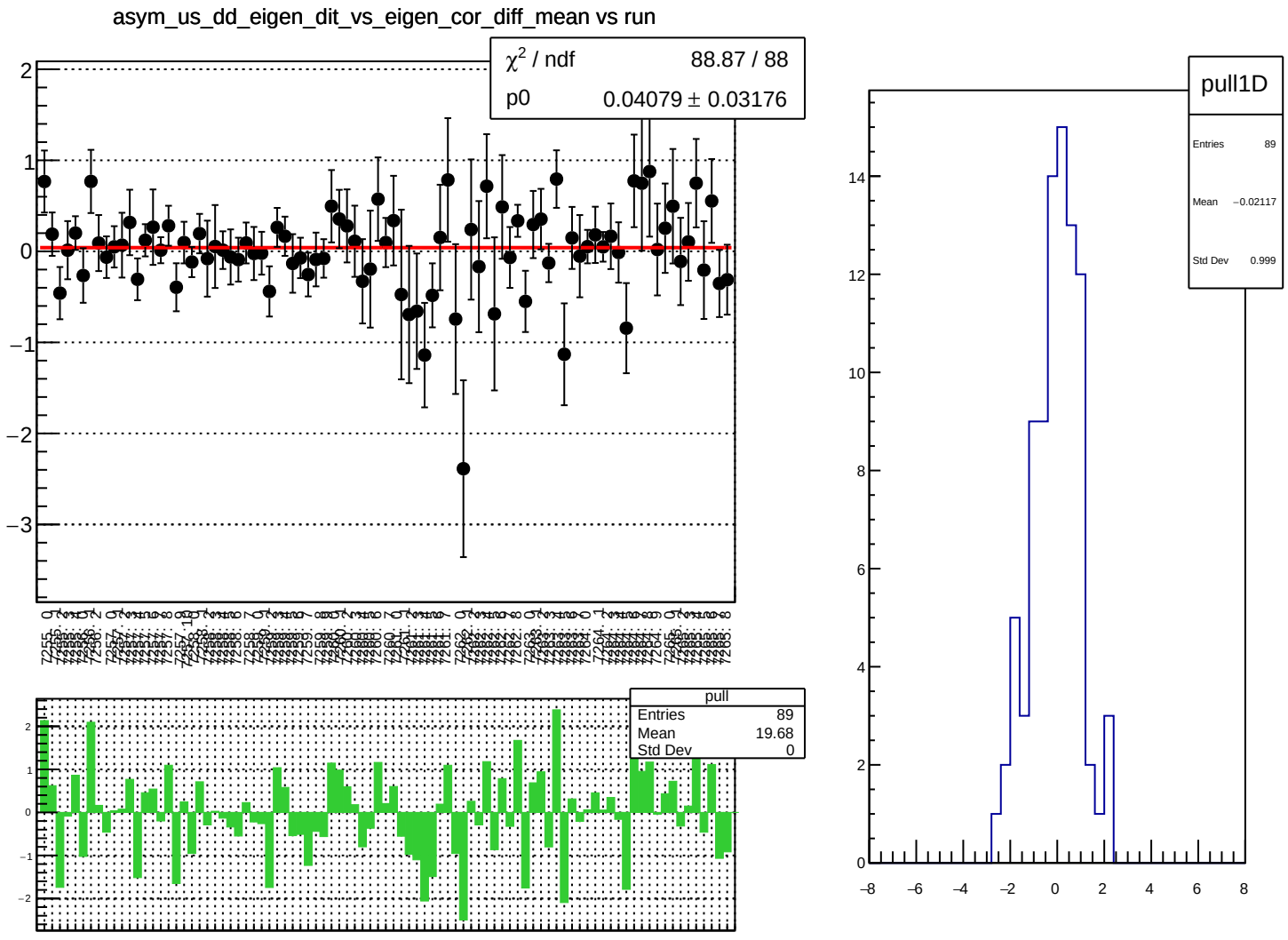

pull1D
Entries 89
Mean −0.01047
Std Dev 0.9844
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

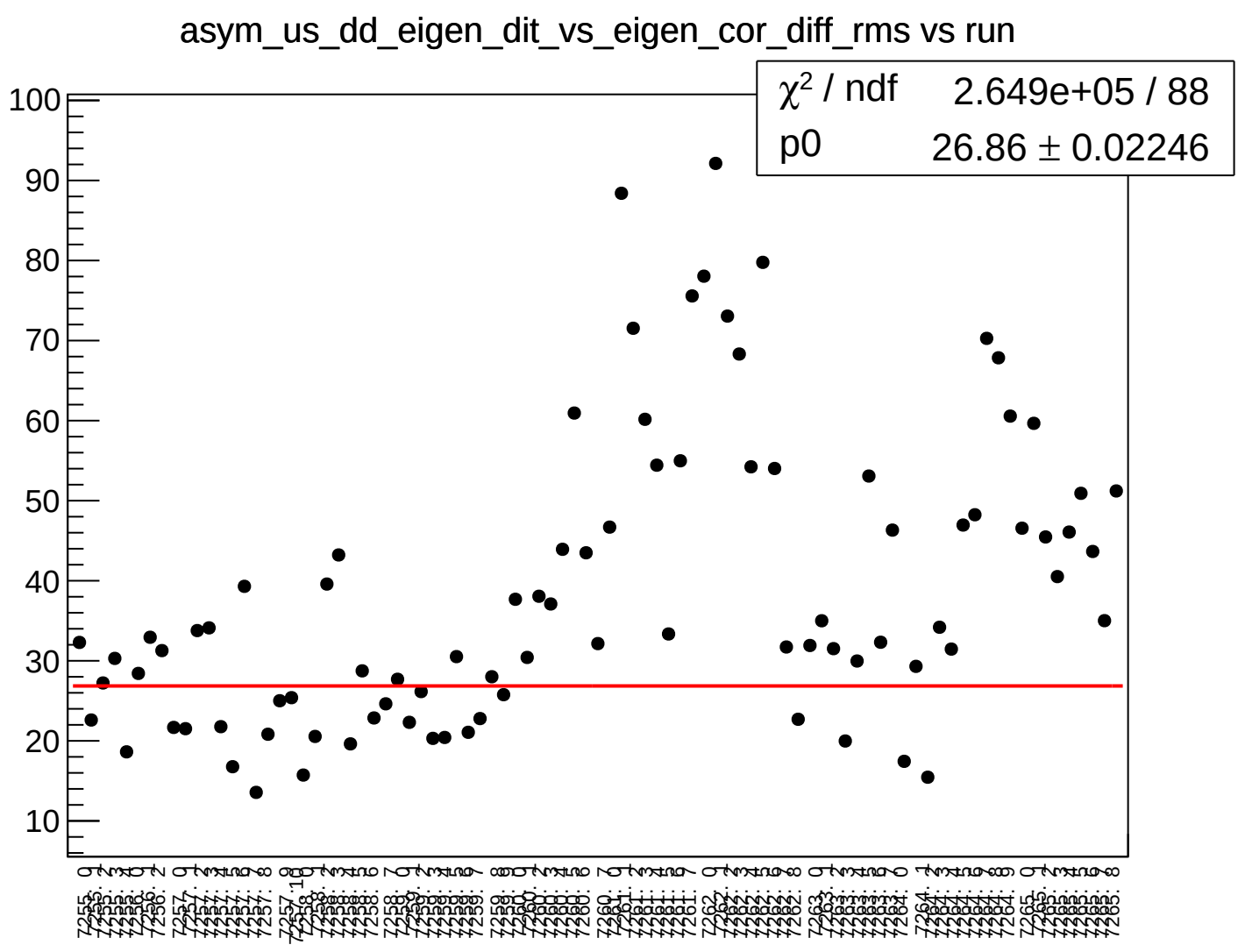

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2764 / 88
p0 0.002568 ± 1.974e−06
0.0028
0.0027
0.0026
0.0025
0.0024

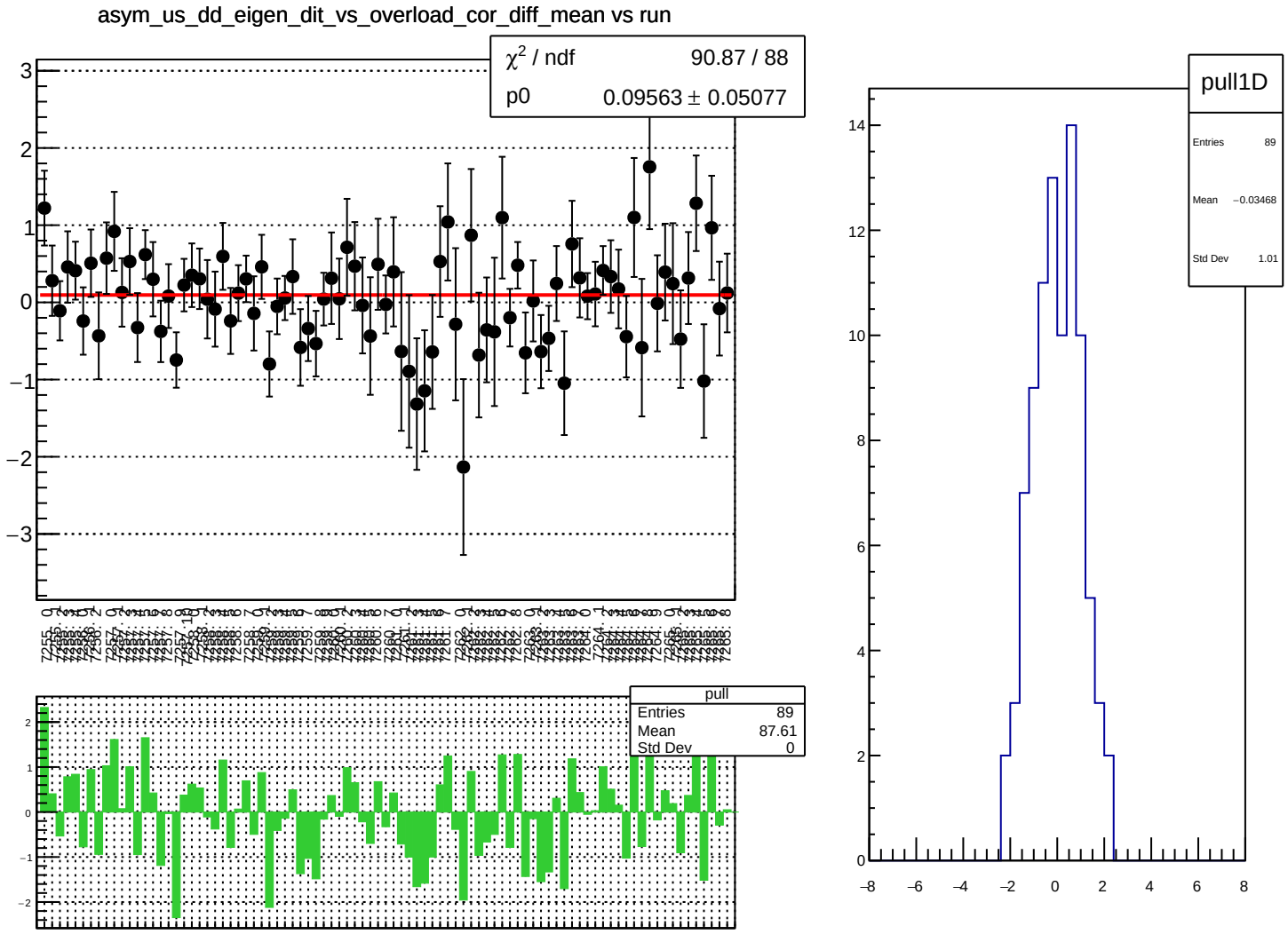

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.87 / 88
p0 0.04079 ± 0.03176
pull
Entries 89
Mean 19.68
Std Dev 0

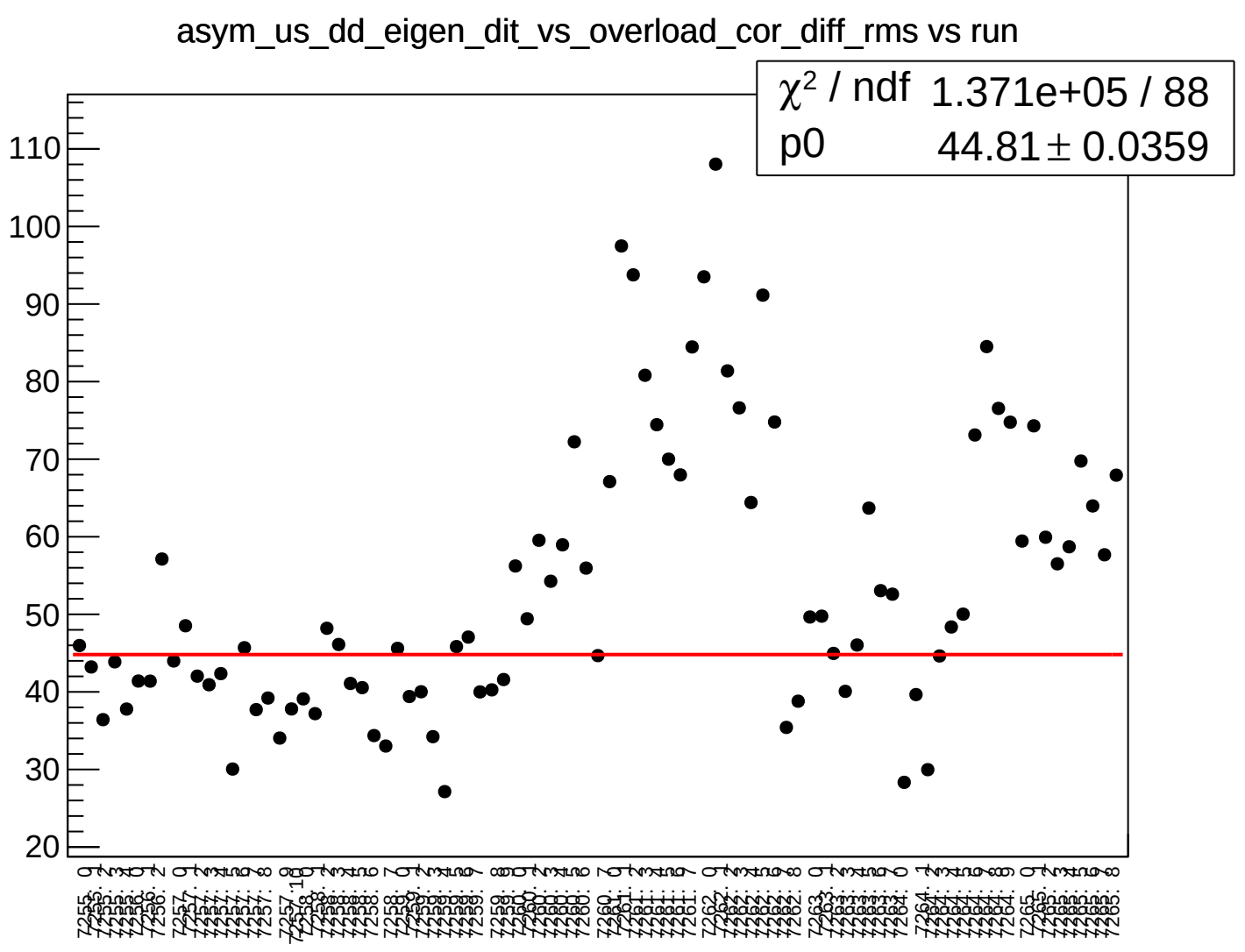

pull1D
Entries 89
Mean −0.02117
Std Dev 0.999

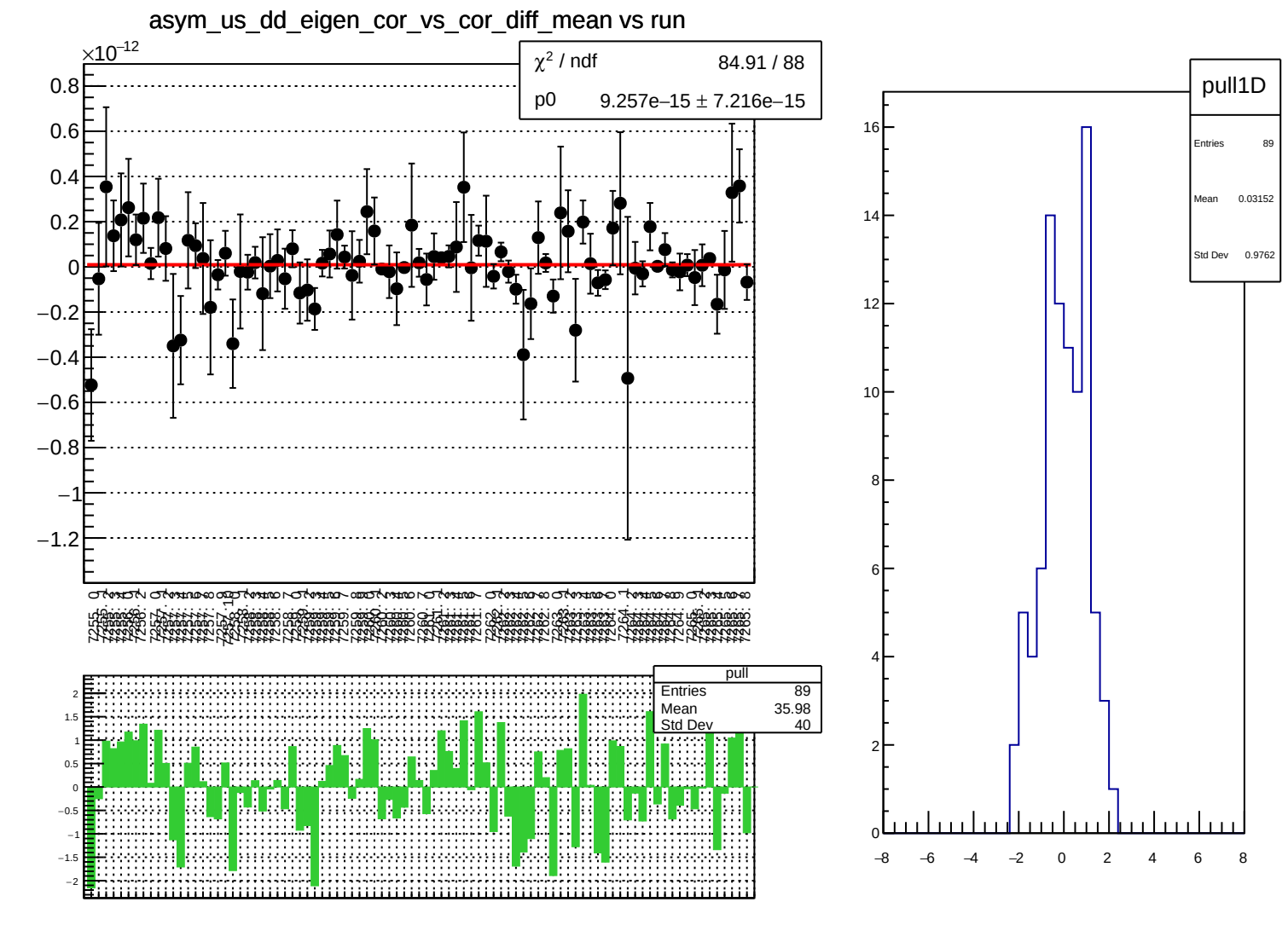

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.649e+05 / 88
p0 26.86 ± 0.02246
100
90
80
70
60
50
40
30
20
10

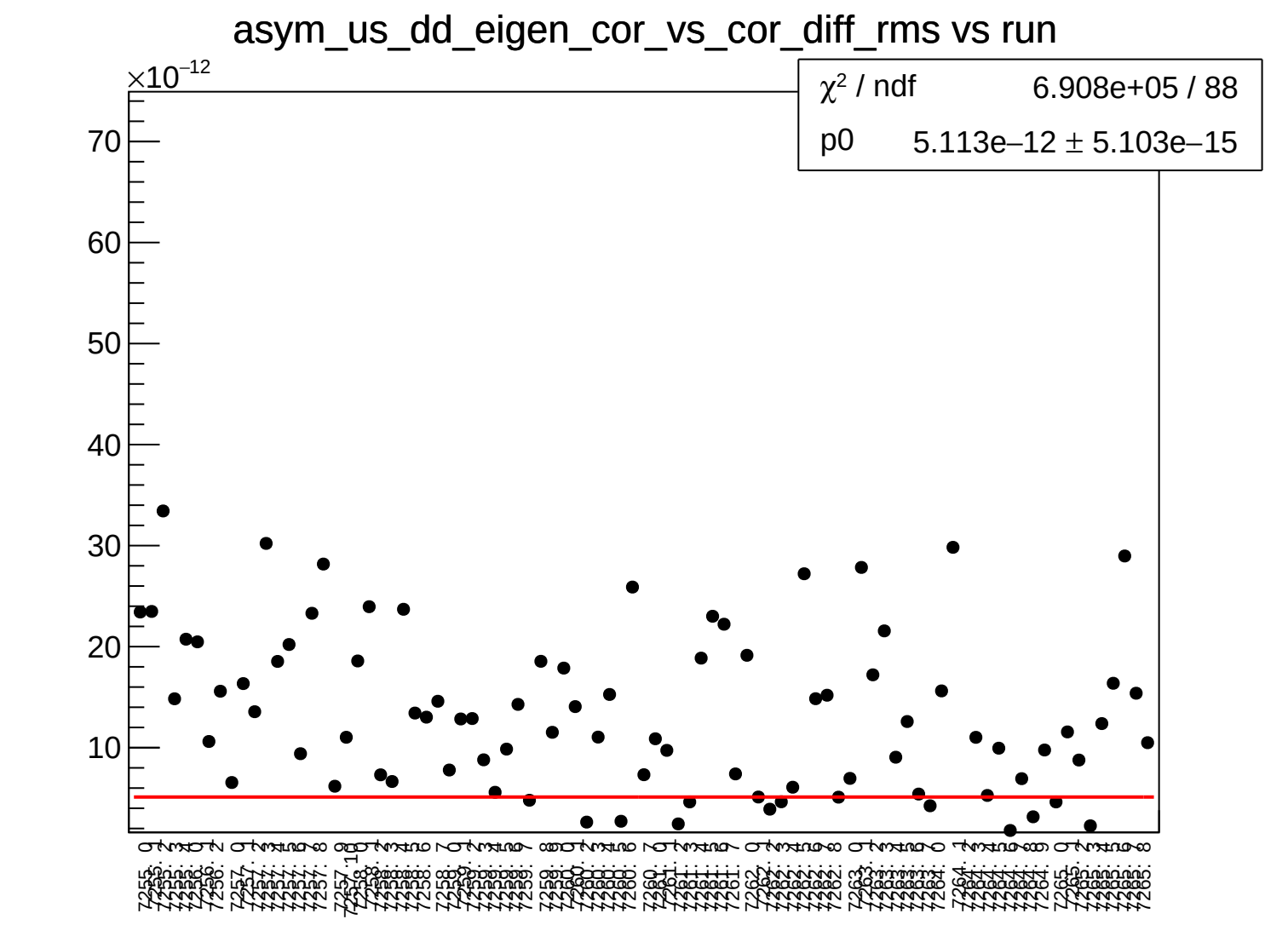

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.87 / 88
p0 0.04079 ± 0.03176
pull
Entries 89
Mean 19.68
Std Dev 0
pull1D
Entries 89
Mean −0.02117
Std Dev 0.999

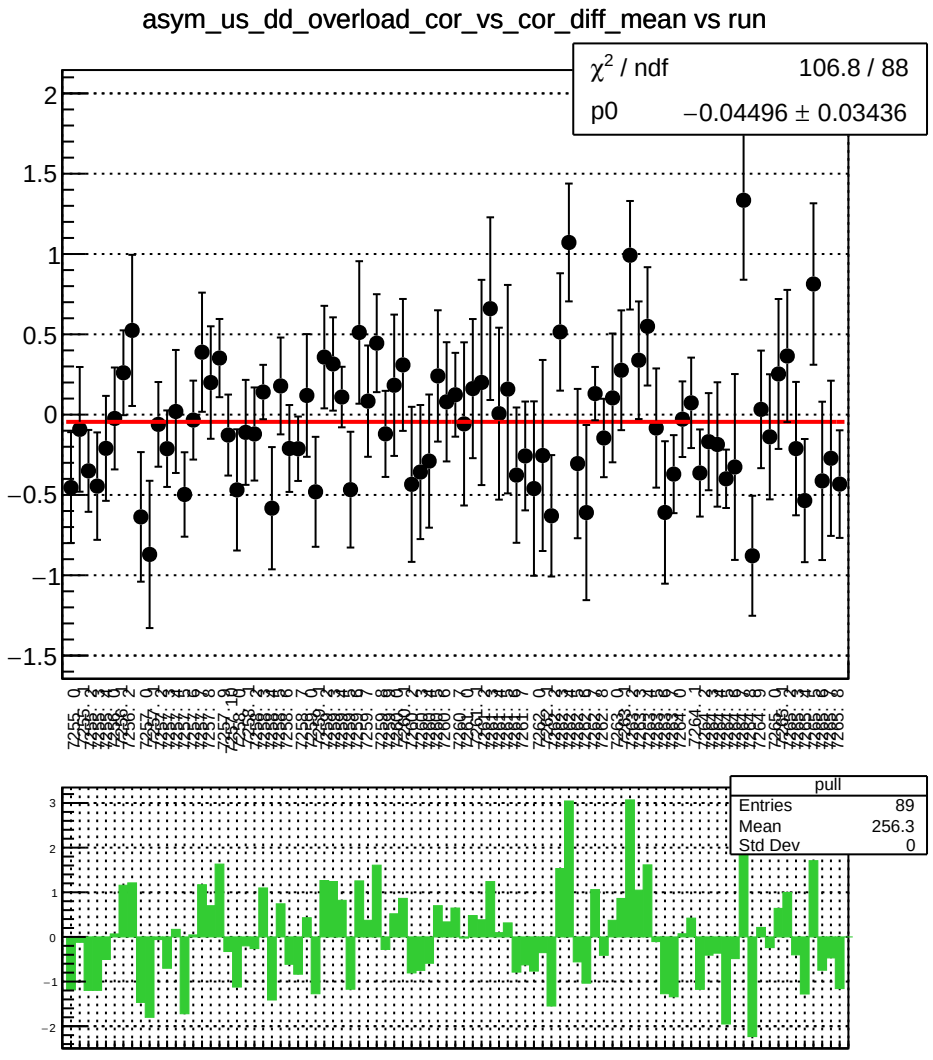

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.649e+05 / 88
p0 26.86 ± 0.02246
100
90
80
70
60
50
40
30
20
10

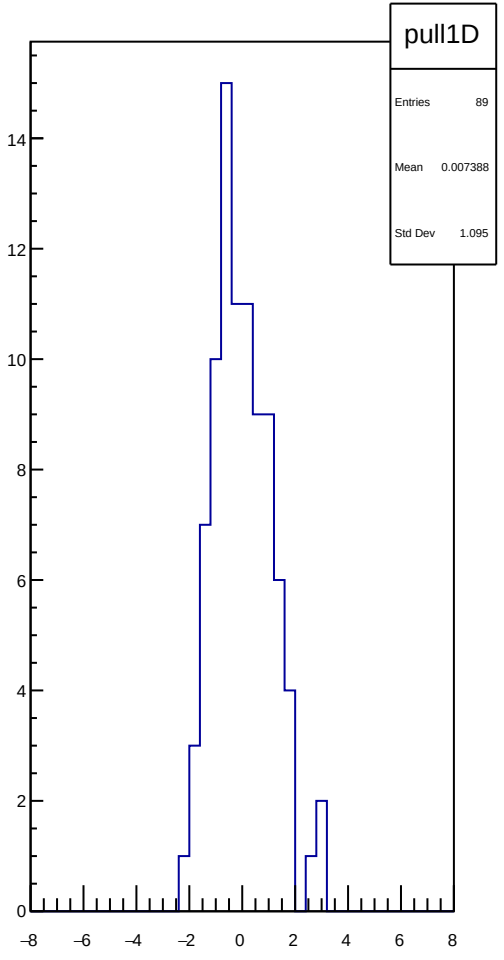

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.87 / 88
p0 0.09563 ± 0.05077
pull
Entries 89
Mean 87.61
Std Dev 0
pull1D
Entries 89
Mean −0.03468
Std Dev 1.01

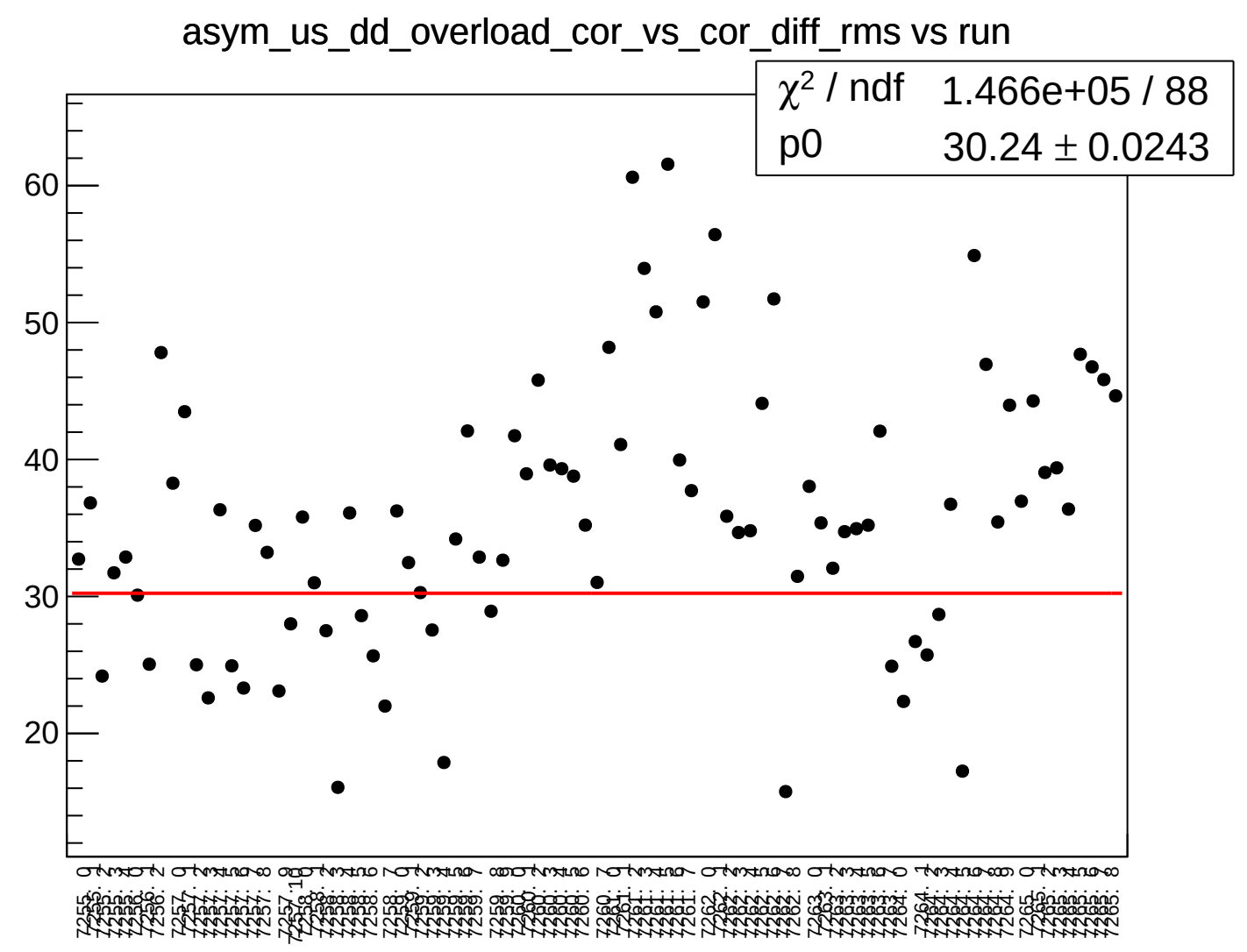

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.371e+05 / 88
p0 44.81 ± 0.0359
110
100
90
80
70
60
50
40
30
20

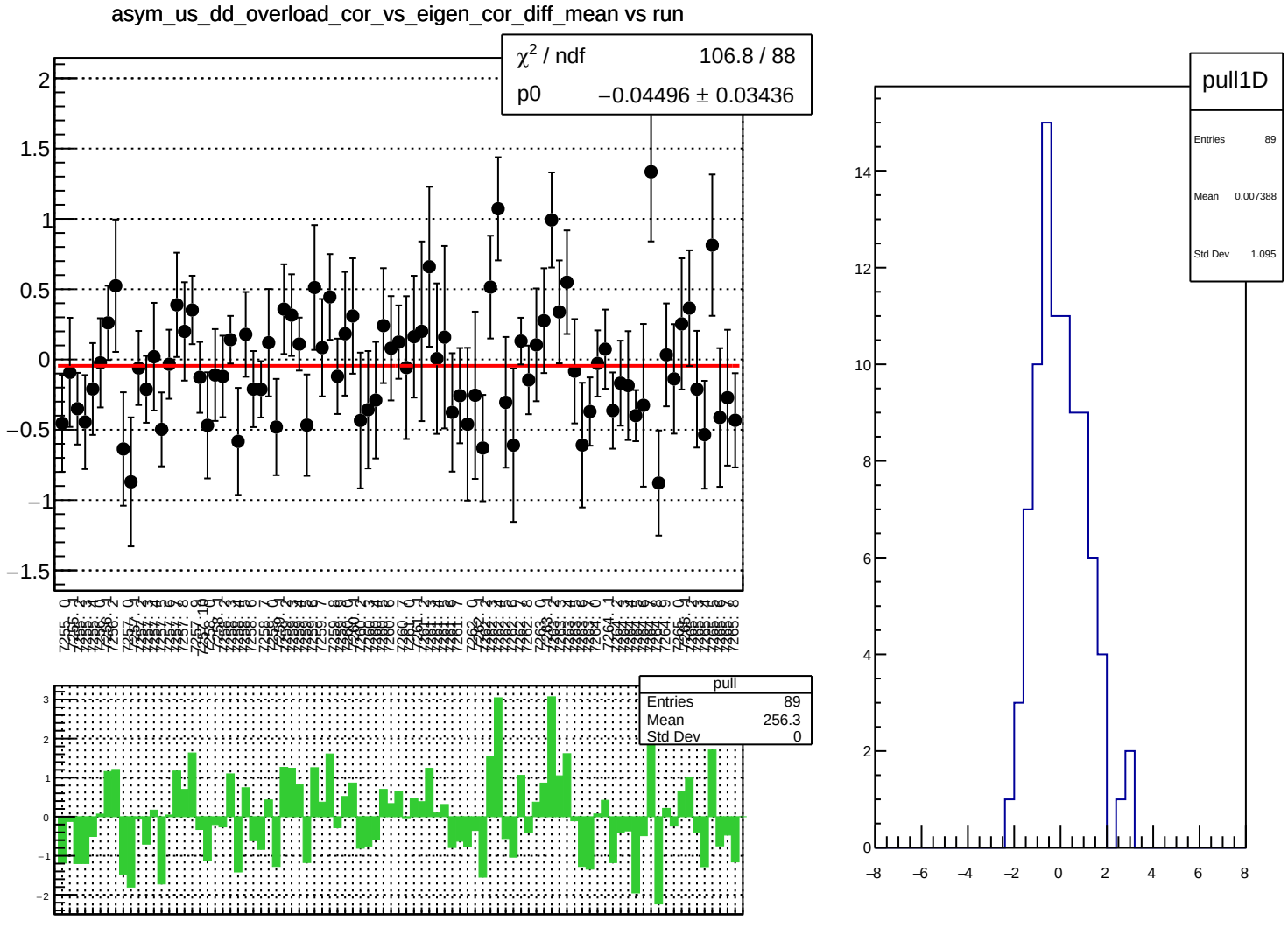

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.91 / 88
p0 9.257e−15 ± 7.216e−15
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 89
Mean 35.98
Std Dev 40
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.03152
Std Dev 0.9762
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

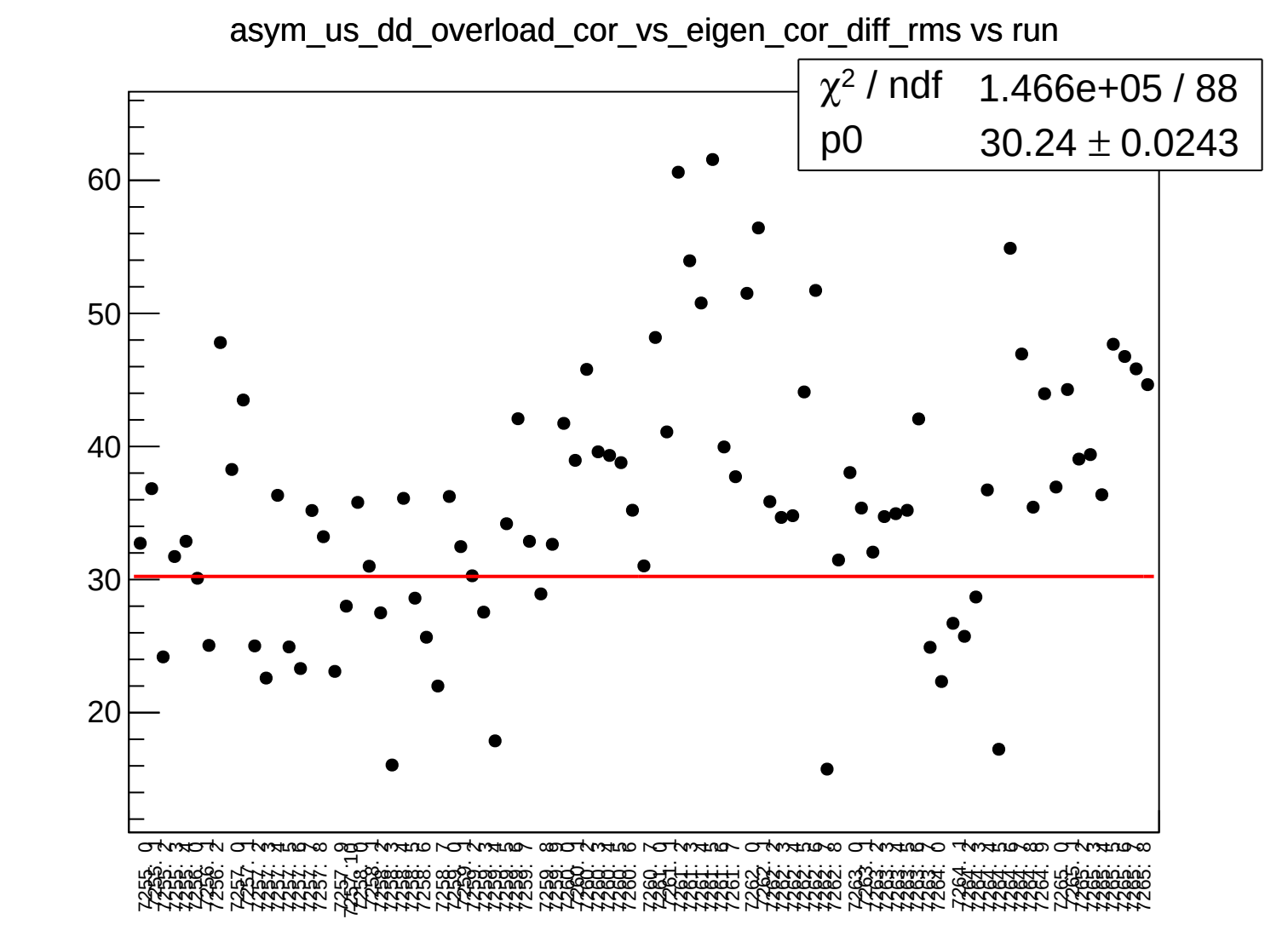

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 6.908e+05 / 88
p0 5.113e−12 ± 5.103e−15

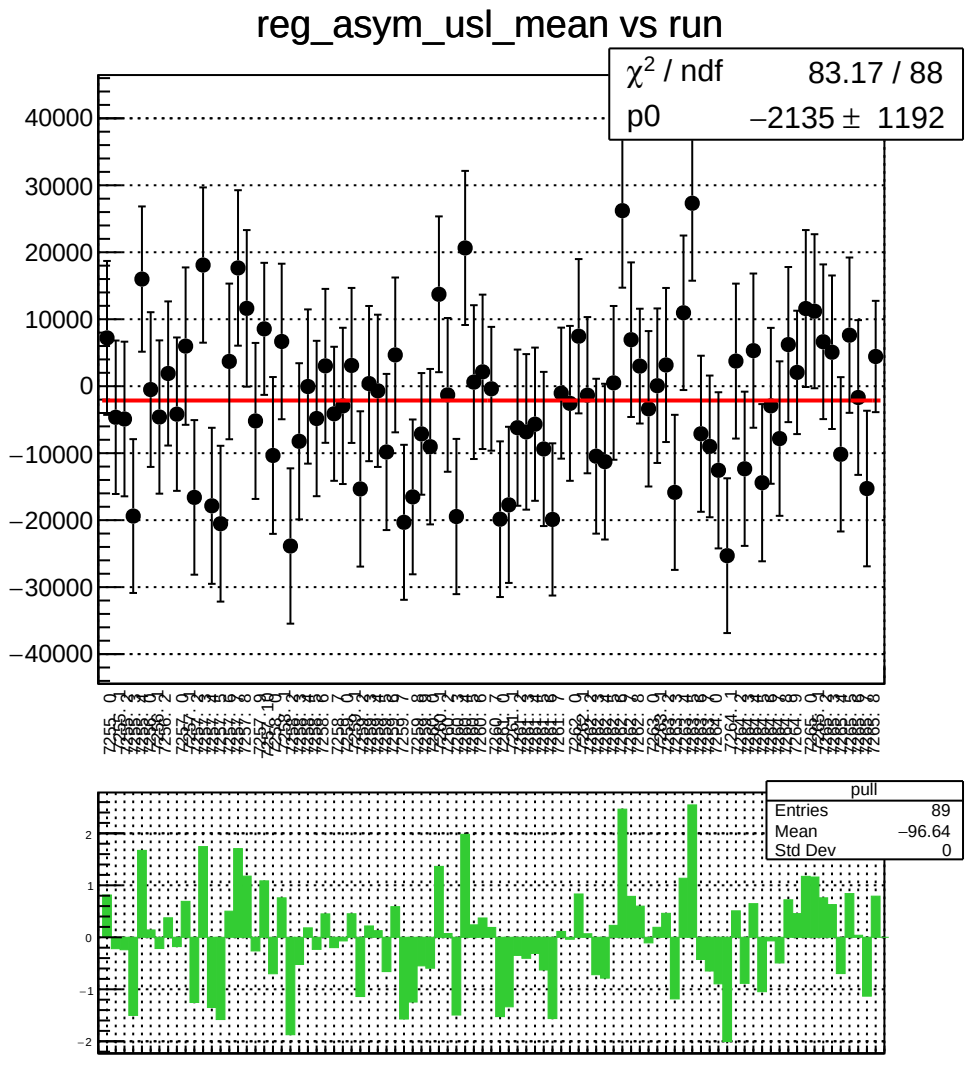

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 106.8 / 88
p0 −0.04496 ± 0.03436
pull
Entries 89
Mean 256.3
Std Dev 0

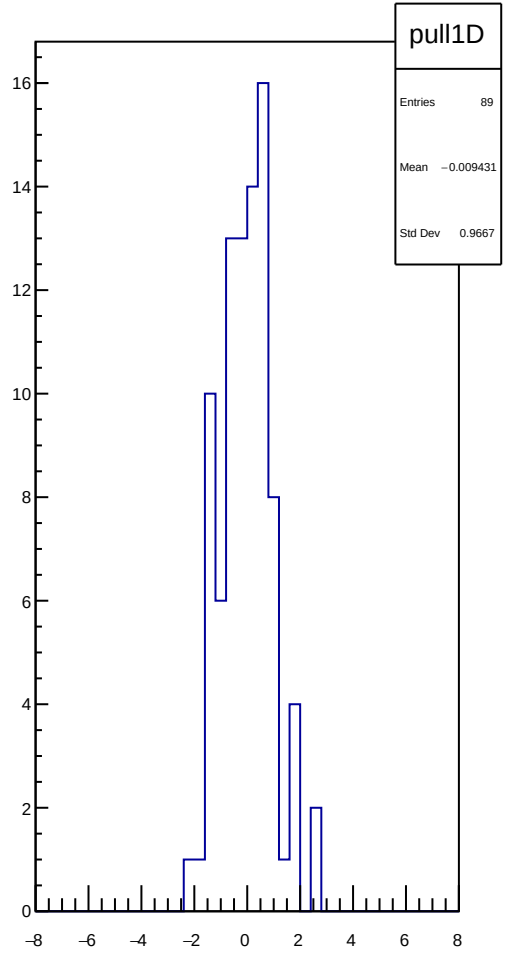

pull1D
Entries 89
Mean 0.007388
Std Dev 1.095

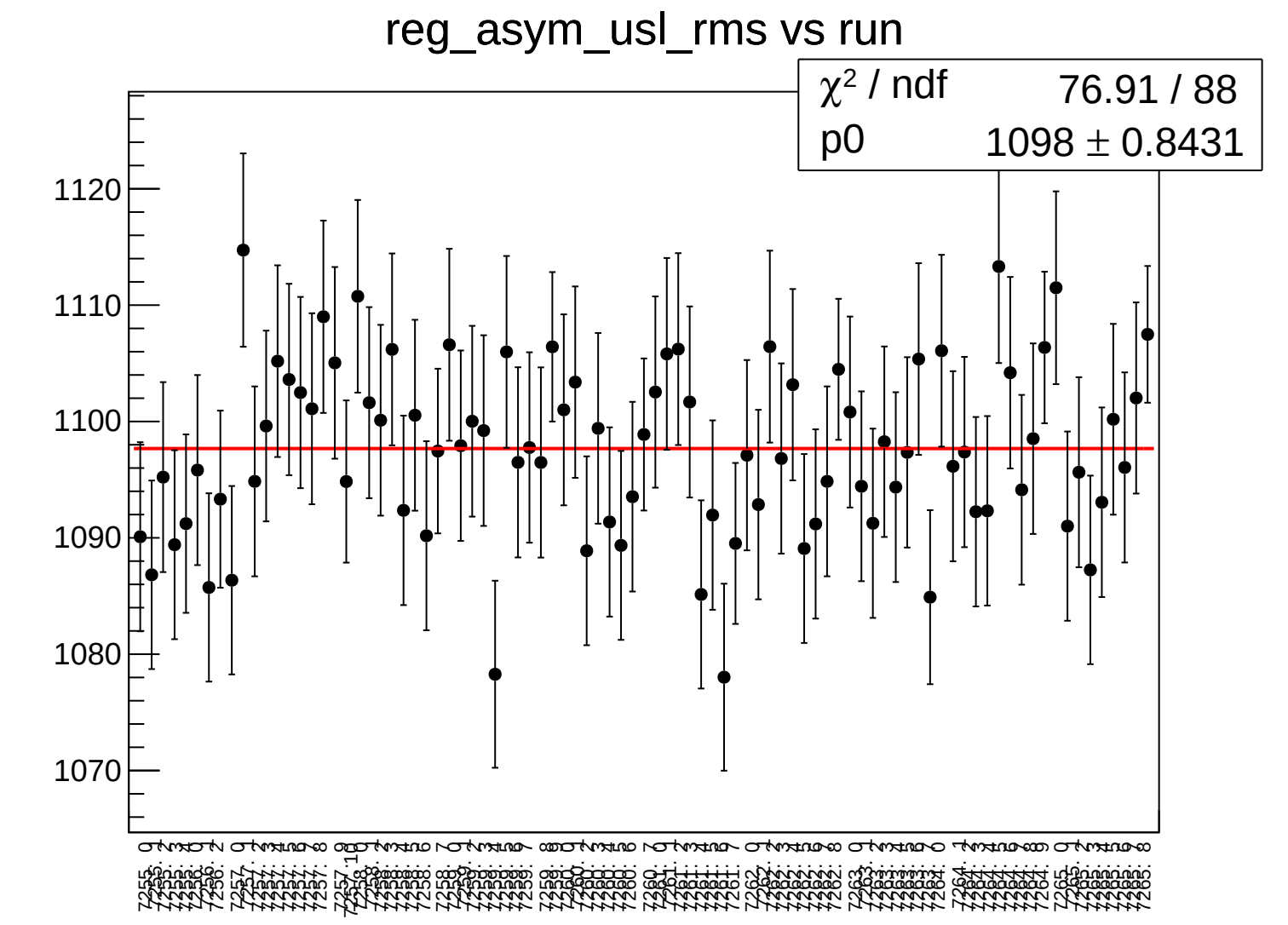

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.466e+05 / 88
p0 30.24 ± 0.0243
60
50
40
30
20

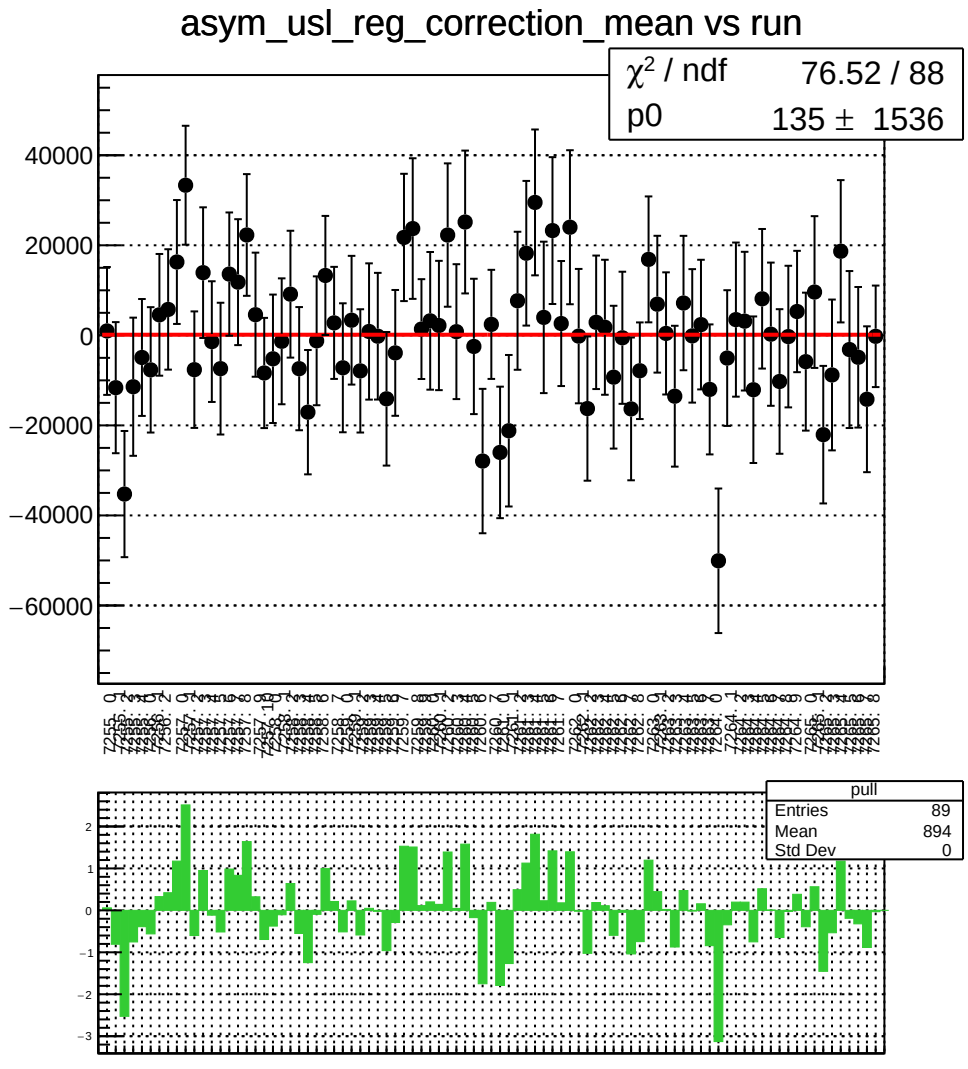

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.8 / 88
p0 −0.04496 ± 0.03436
pull
Entries 89
Mean 256.3
Std Dev 0
pull1D
Entries 89
Mean 0.007388
Std Dev 1.095

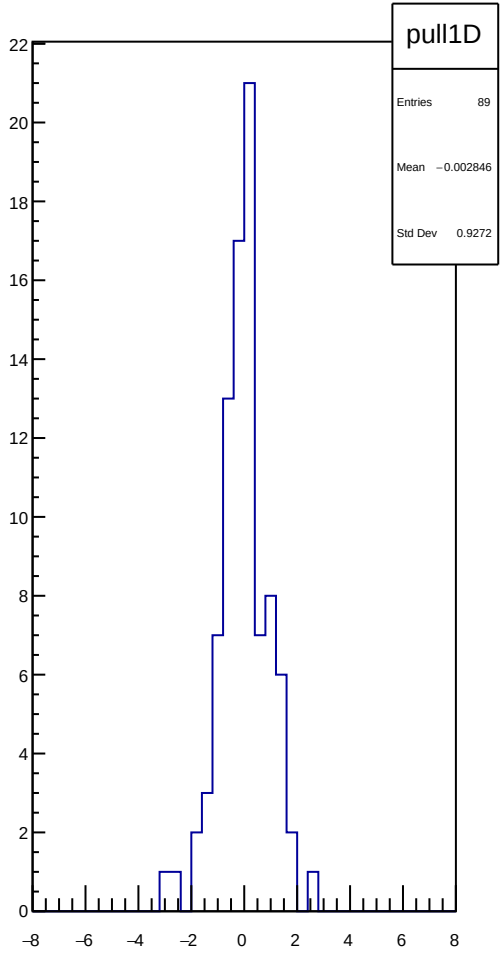

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.466e+05 / 88
p0 30.24 ± 0.0243
60
50
40
30
20

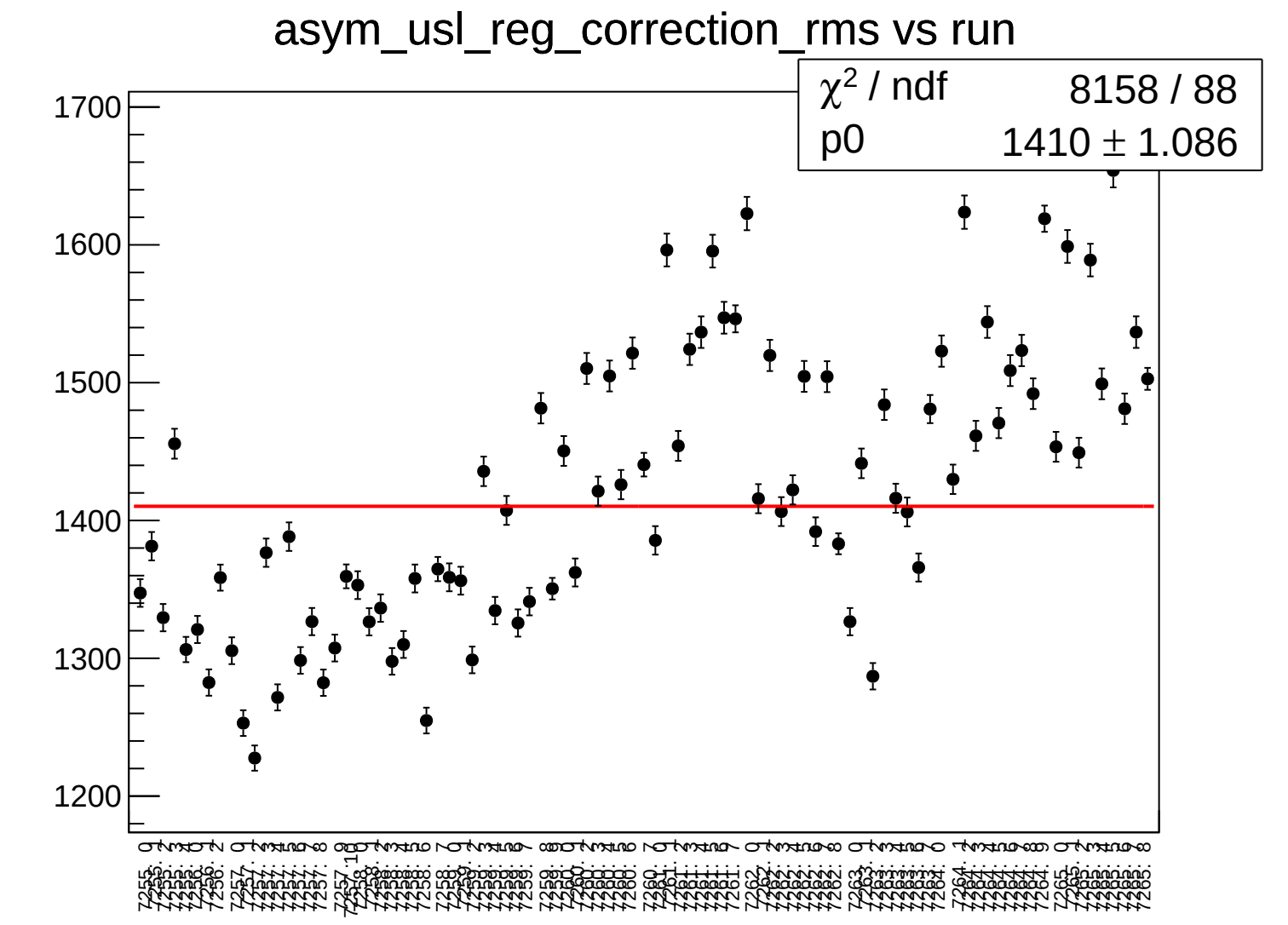

reg_asym_usl_mean vs run
χ² / ndf 83.17 / 88
p0 −2135 ± 1192
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −96.64
Std Dev 0
2
1
0
−1
−2

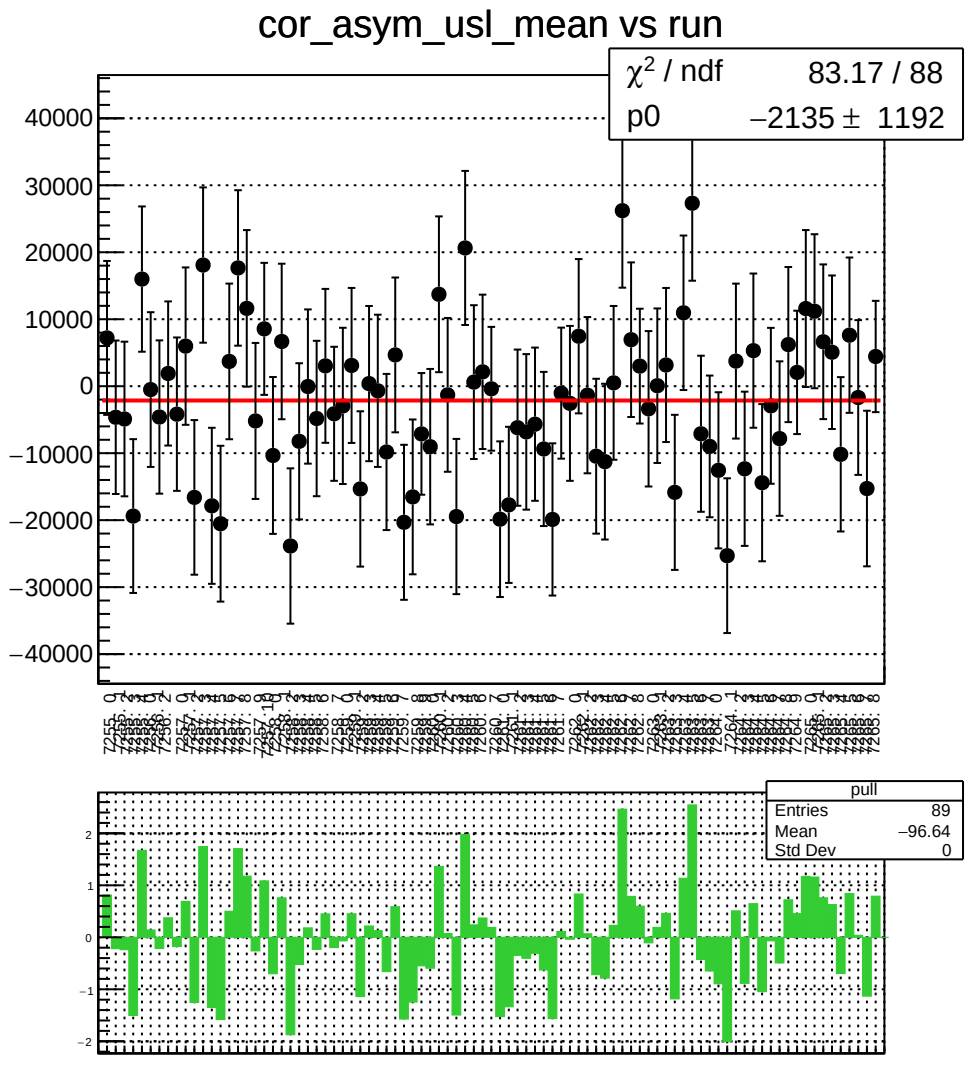

pull1D
Entries 89
Mean −0.009431
Std Dev 0.9667
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

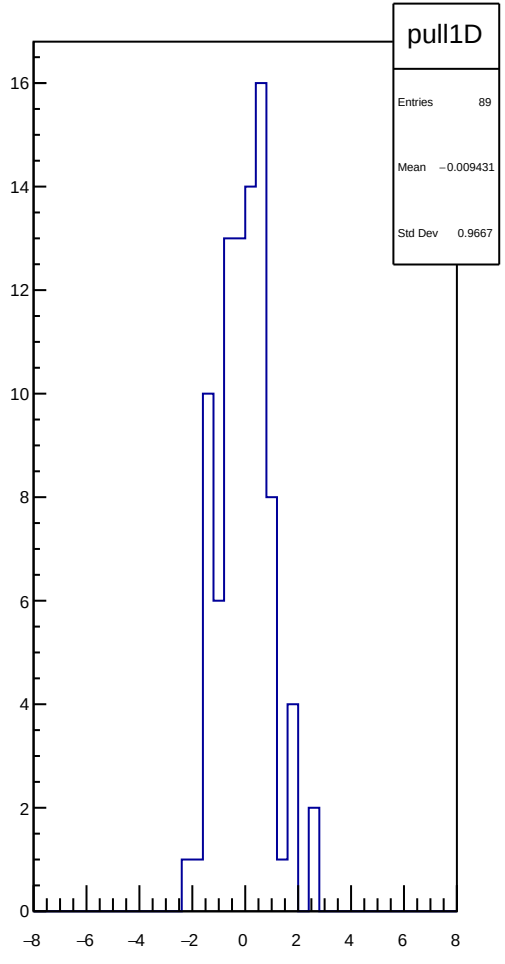

reg_asym_usl_rms vs run
χ² / ndf 76.91 / 88
p0 1098 ± 0.8431
1120
1110
1100
1090
1080
1070

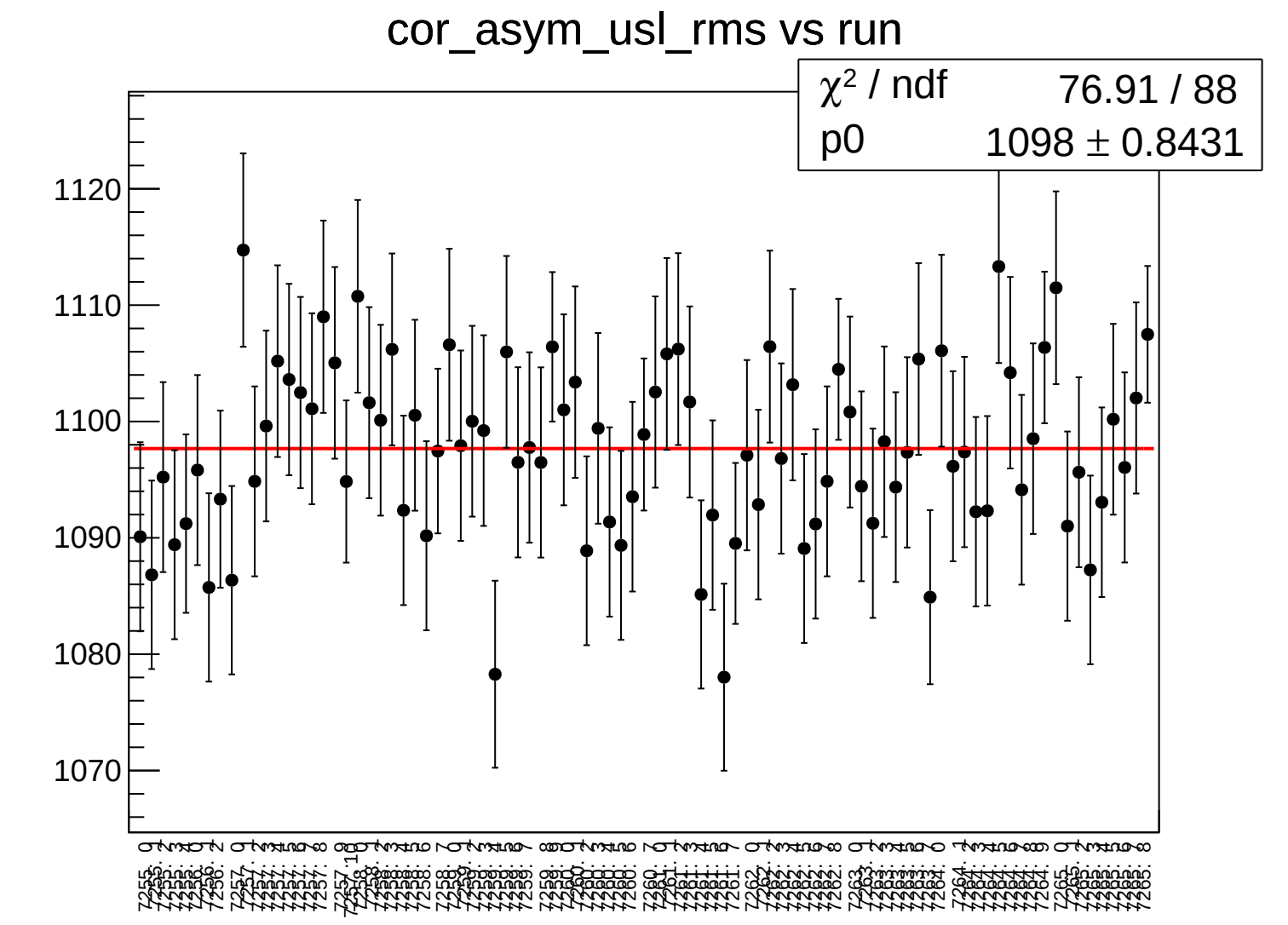

asym_usl_reg_correction_mean vs run
χ² / ndf 76.52 / 88
p0 135 ± 1536
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 894
Std Dev 0
2
1
0
−1
−2
−3

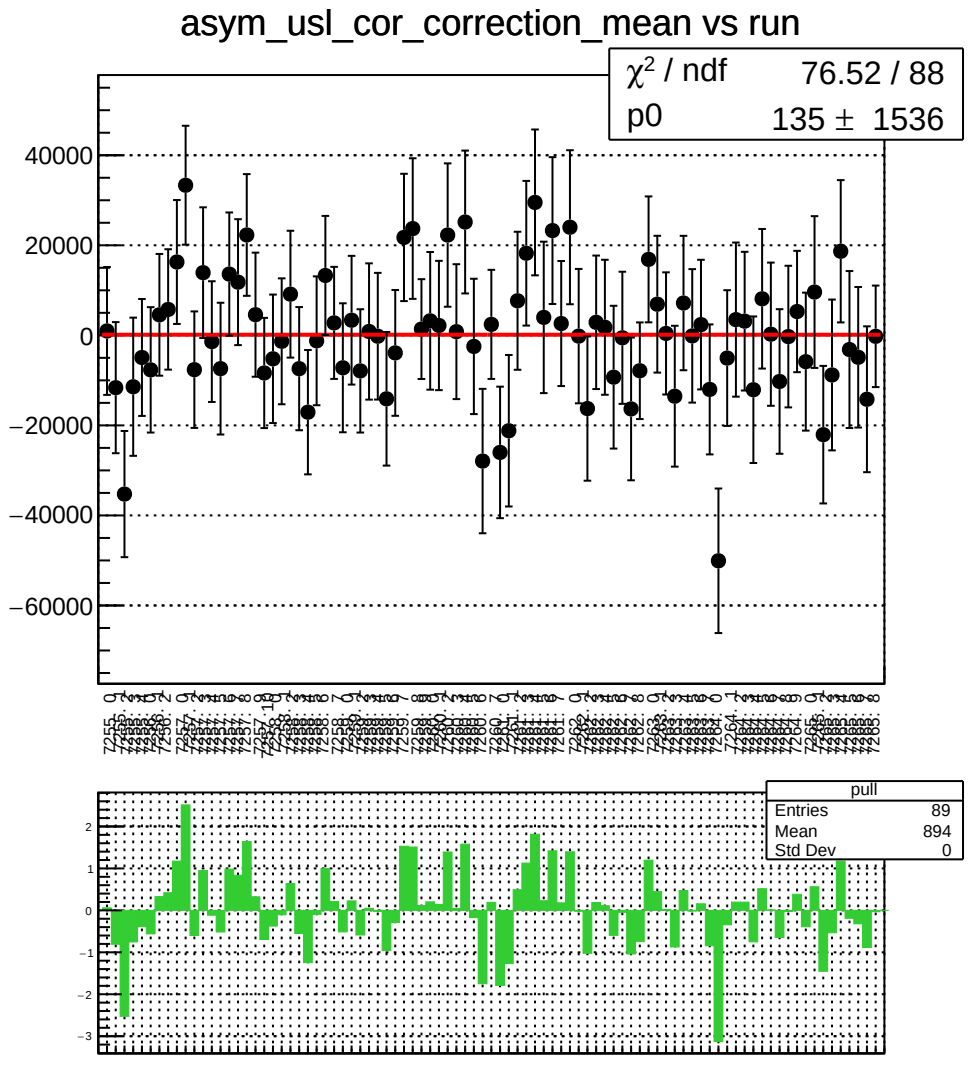

pull1D
Entries 89
Mean −0.002846
Std Dev 0.9272
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

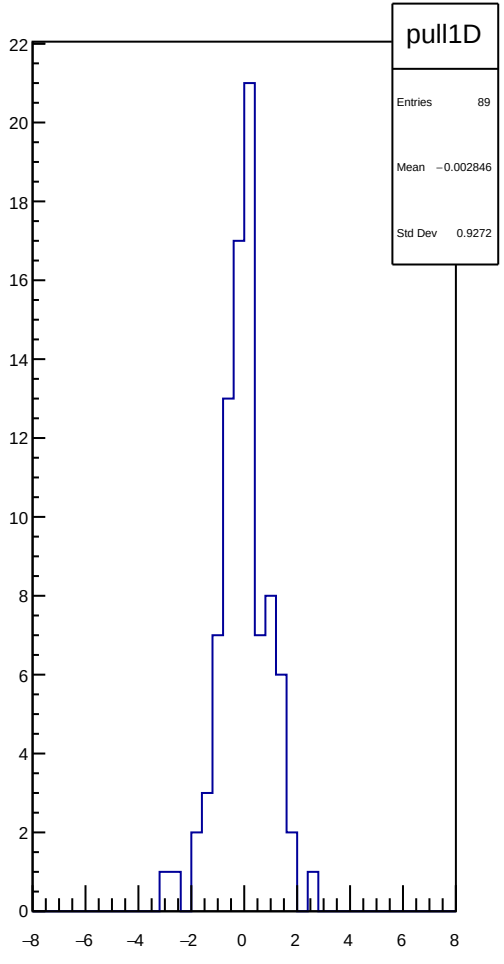

asym_usl_reg_correction_rms vs run
χ² / ndf 8158 / 88
p0 1410 ± 1.086
1700
1600
1500
1400
1300
1200

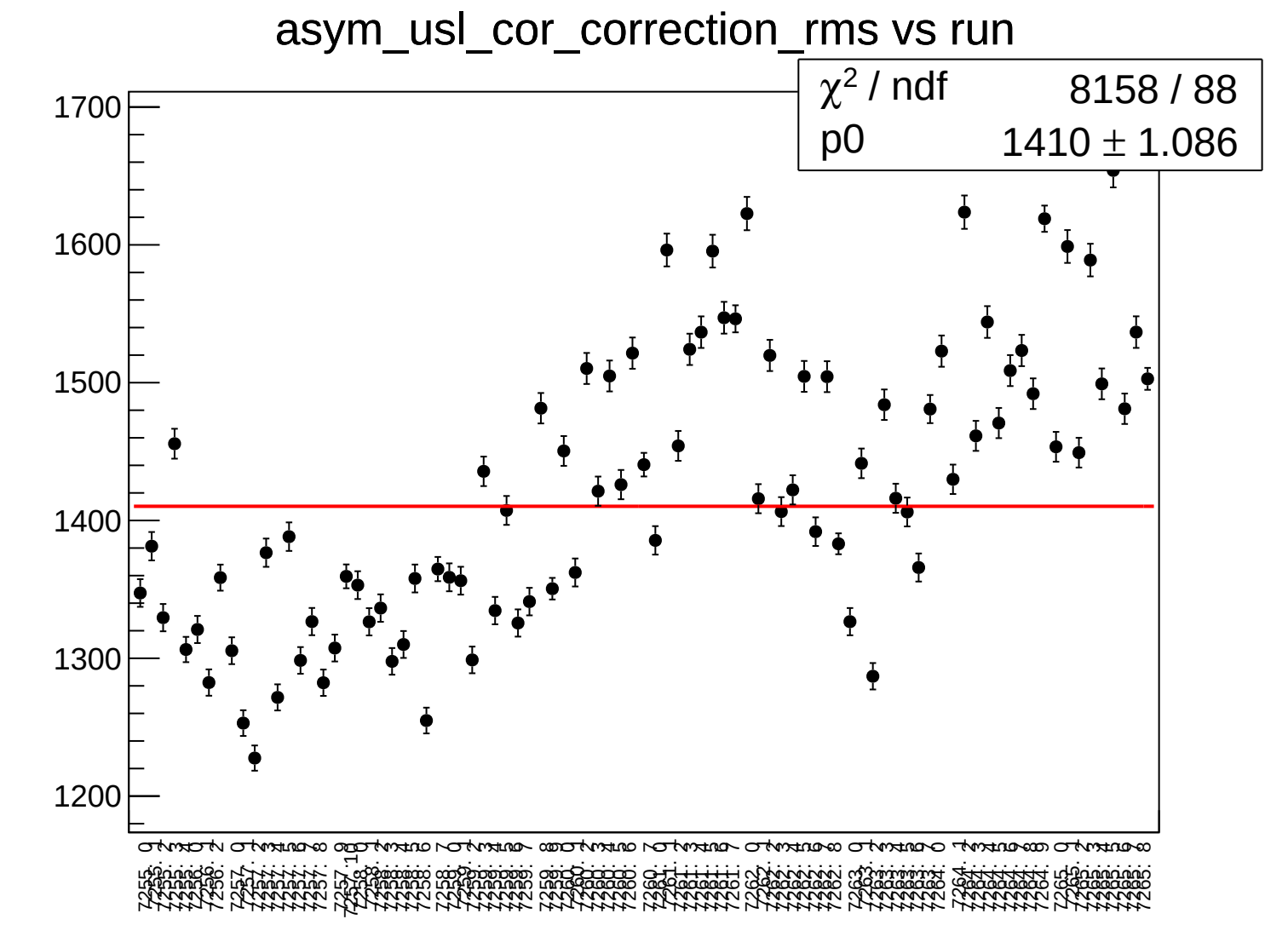

cor_asym_usl_mean vs run
χ² / ndf 83.17 / 88
p0 −2135 ± 1192
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −96.64
Std Dev 0
2
1
0
−1
−2

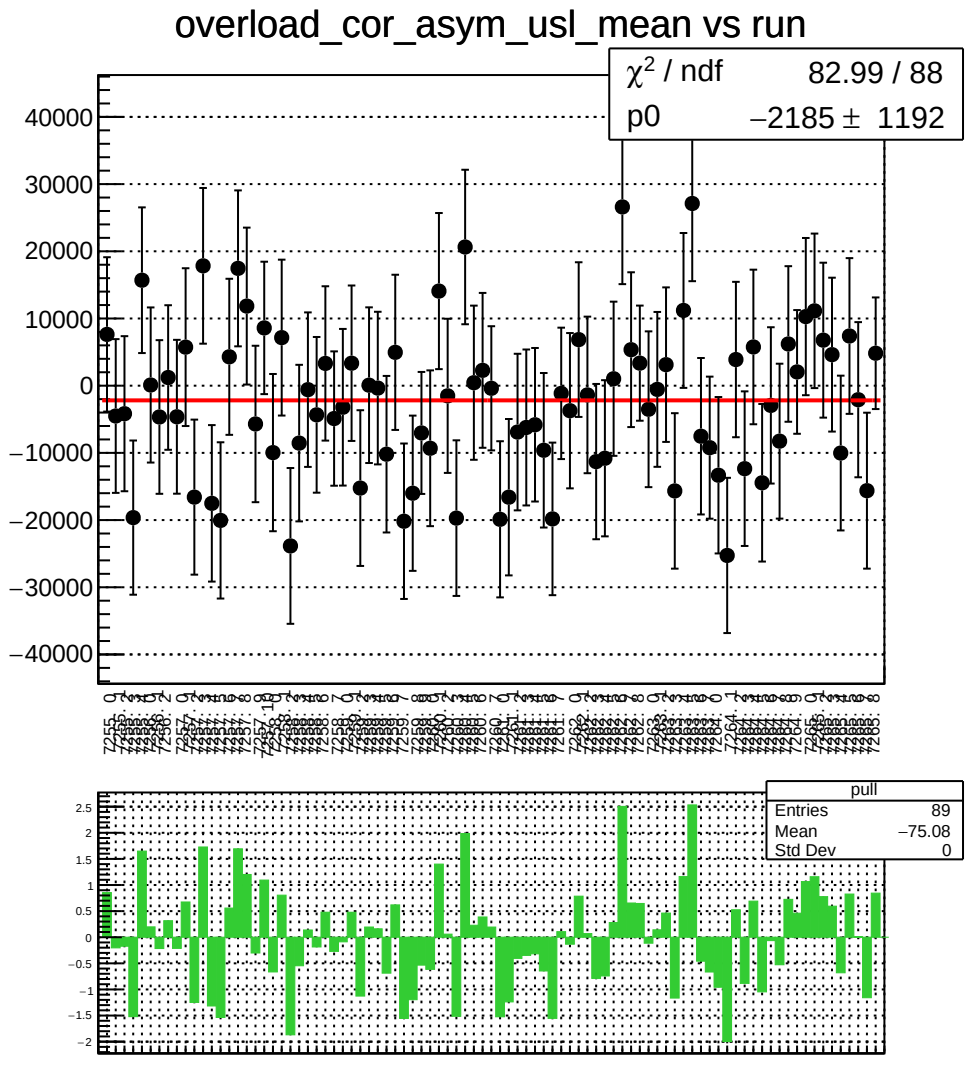

pull1D
Entries 89
Mean −0.009431
Std Dev 0.9667
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

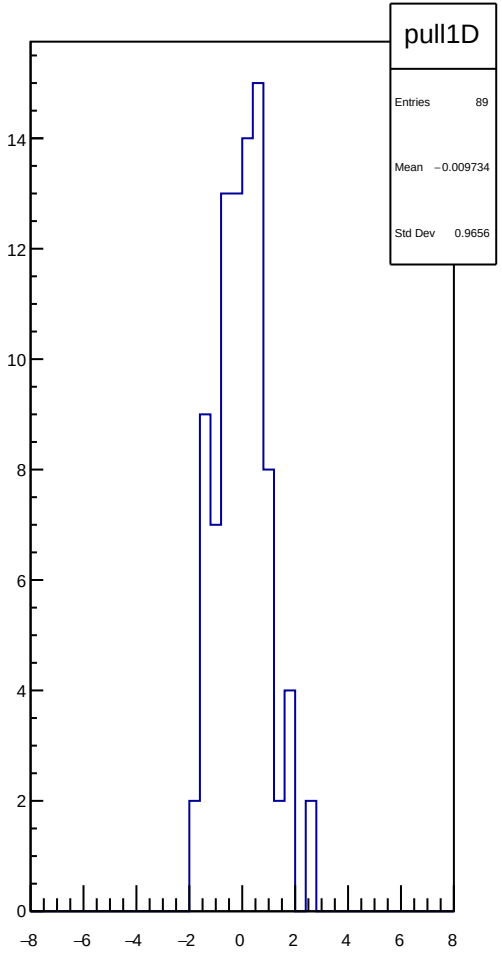

cor_asym_usl_rms vs run
χ² / ndf 76.91 / 88
p0 1098 ± 0.8431
1120
1110
1100
1090
1080
1070

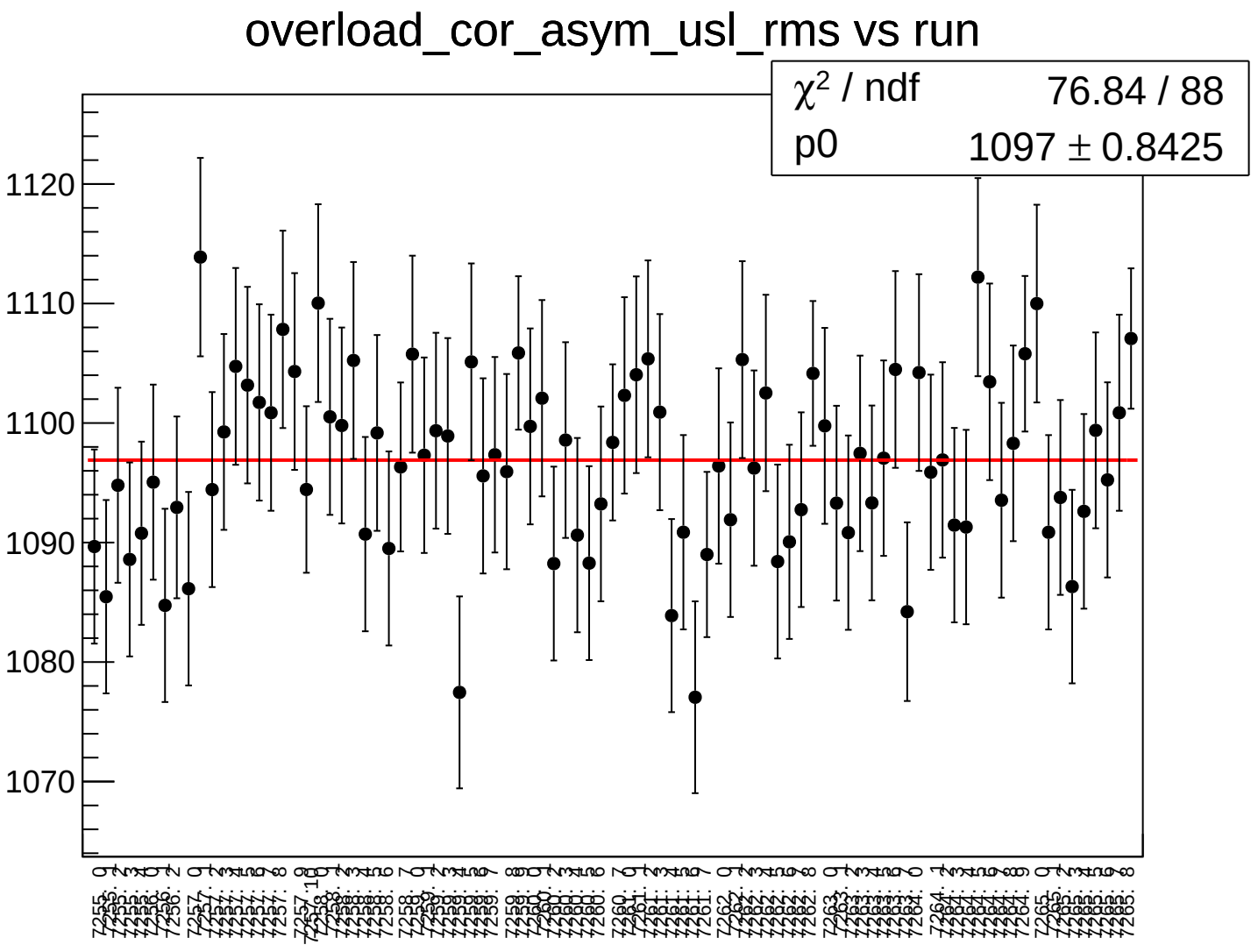

asym_usl_cor_correction_mean vs run
χ² / ndf 76.52 / 88
p0 135 ± 1536
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 894
Std Dev 0
2
1
0
−1
−2
−3

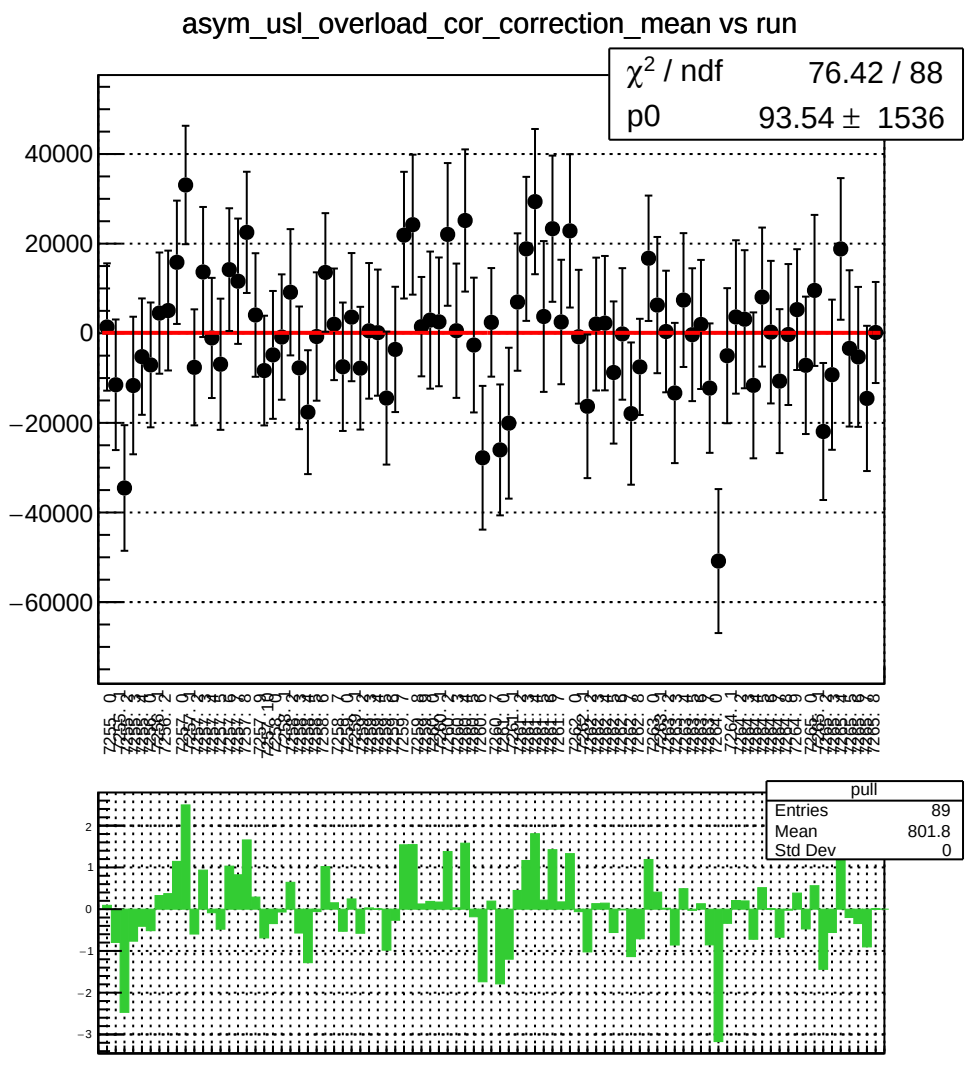

pull1D
Entries 89
Mean −0.002846
Std Dev 0.9272
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

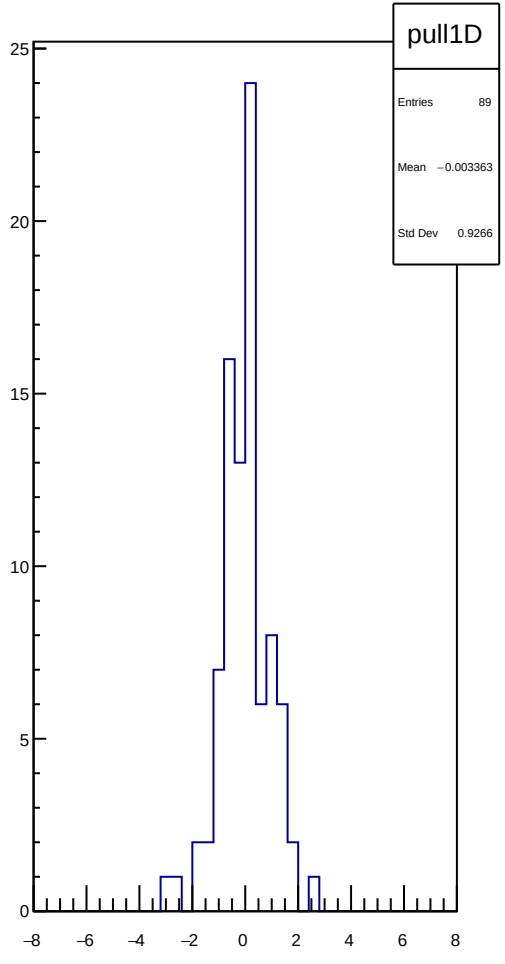

asym_usl_cor_correction_rms vs run
χ² / ndf 8158 / 88
p0 1410 ± 1.086
1700
1600
1500
1400
1300
1200

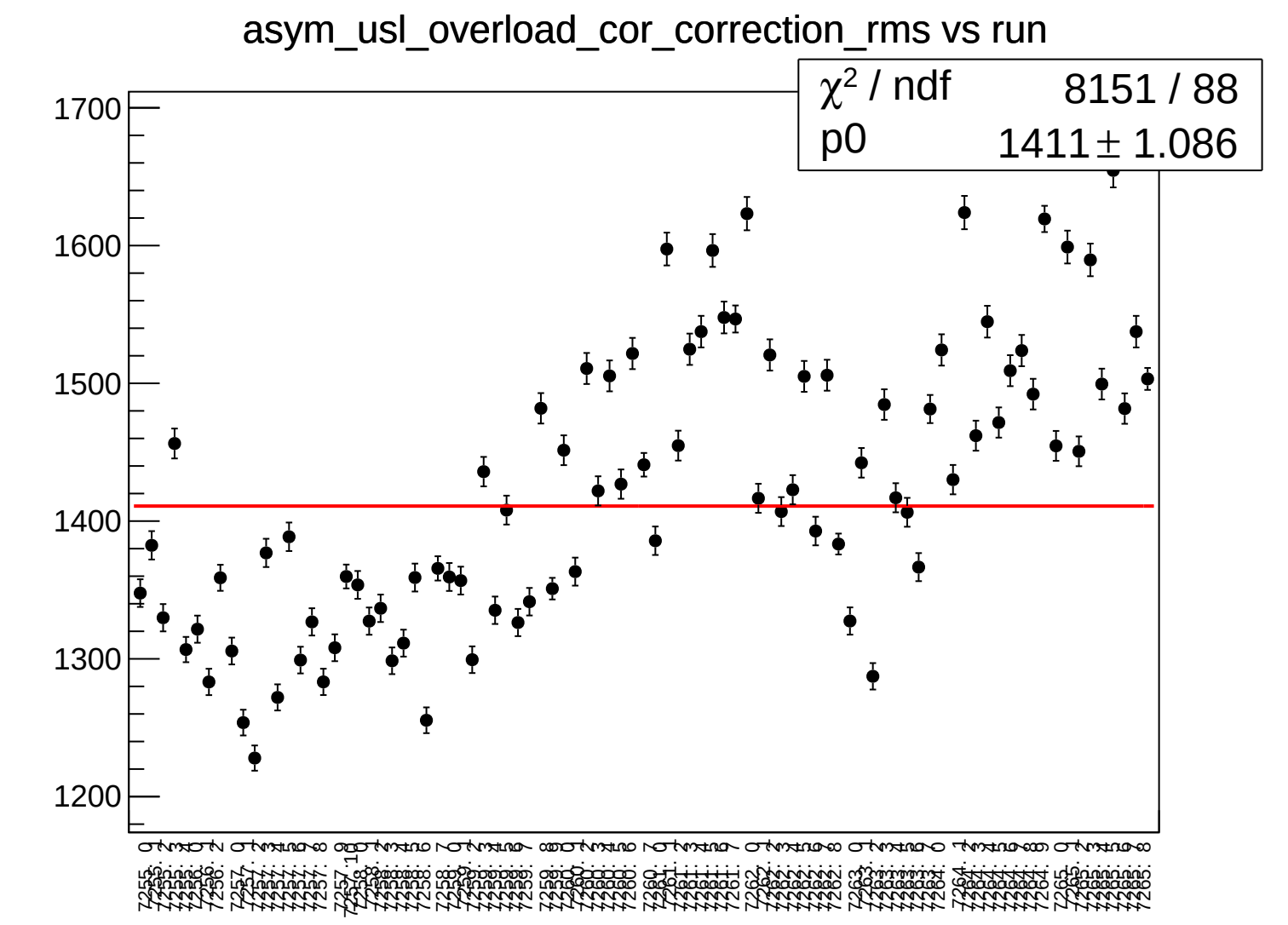

overload_cor_asym_usl_mean vs run
χ² / ndf 82.99 / 88
p0 −2185 ± 1192
pull
Entries 89
Mean −75.08
Std Dev 0

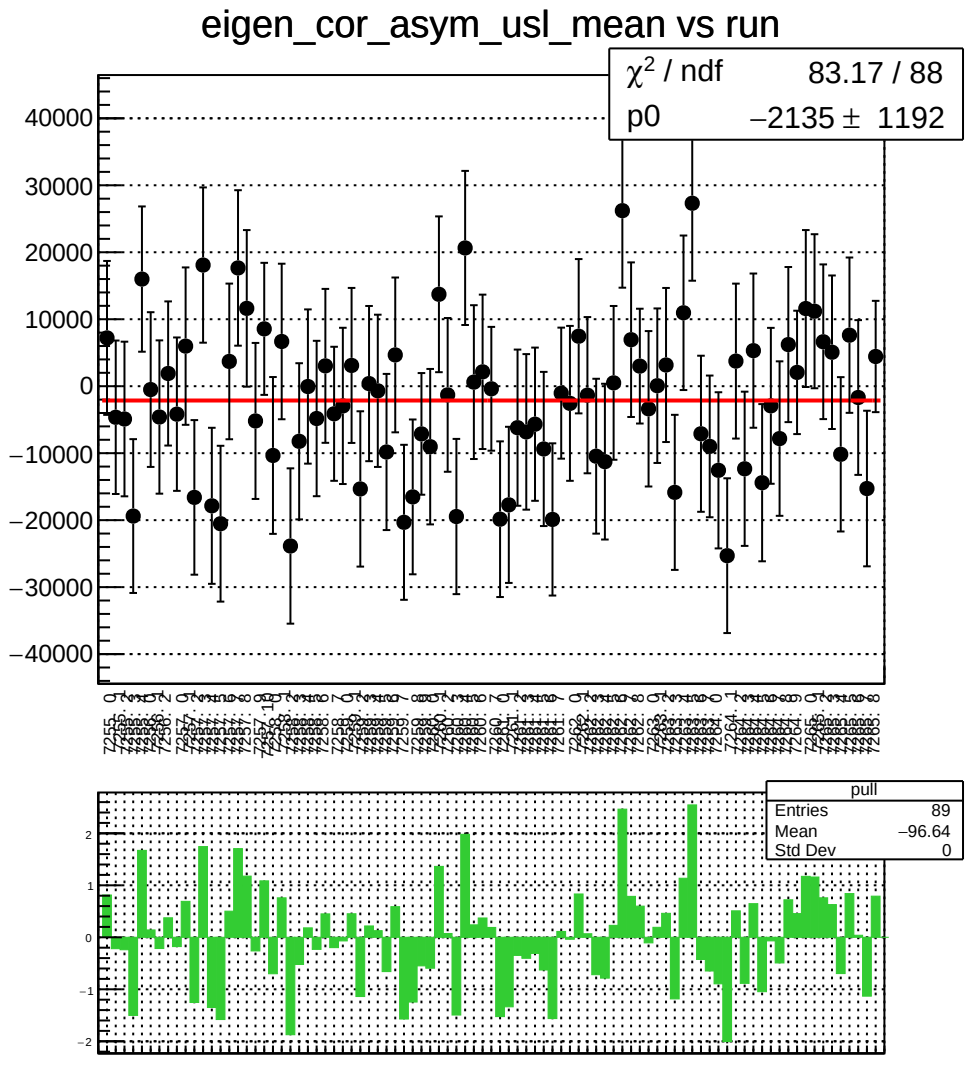

pull1D
Entries 89
Mean −0.009734
Std Dev 0.9656

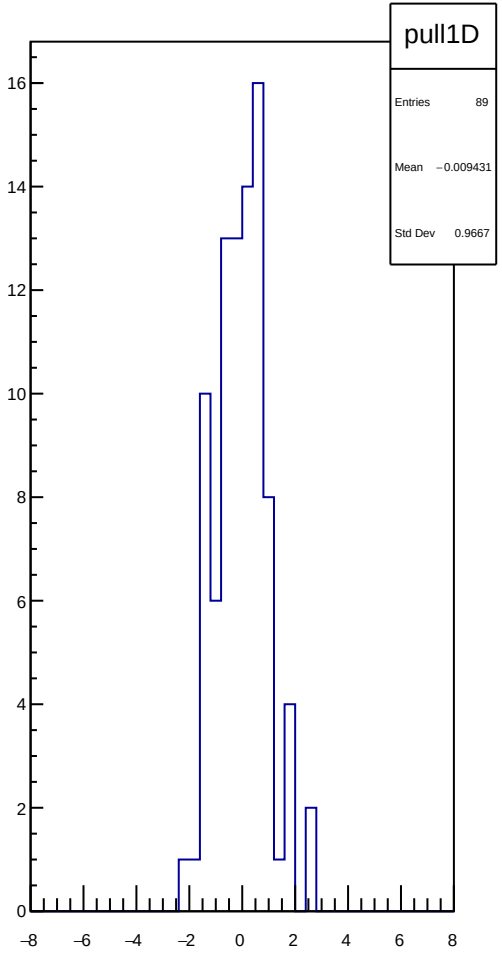

overload_cor_asym_usl_rms vs run
χ² / ndf 76.84 / 88
p0 1097 ± 0.8425
1120
1110
1100
1090
1080
1070

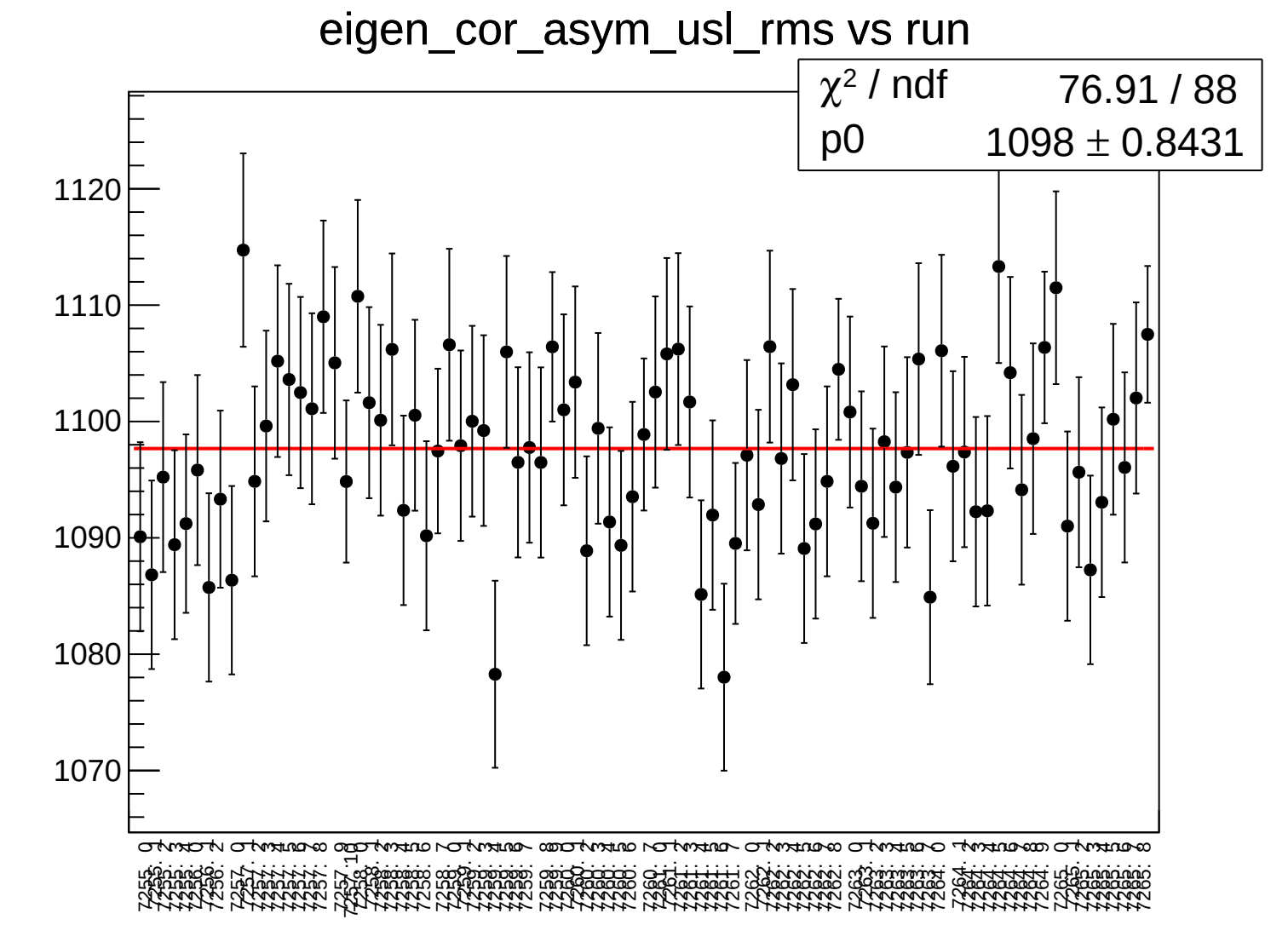

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 76.42 / 88
p0 93.54 ± 1536
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 801.8
Std Dev 0
2
1
0
−1
−2
−3

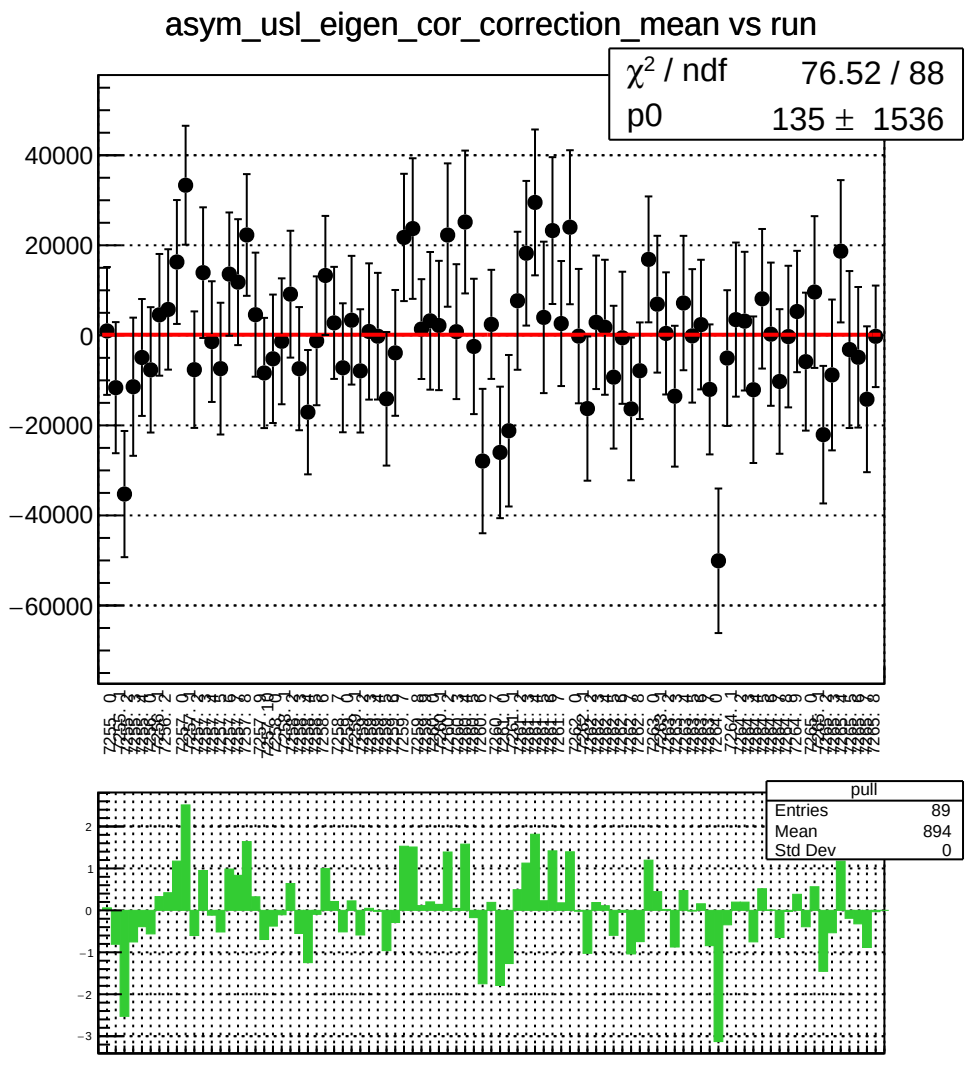

pull1D
Entries 89
Mean −0.003363
Std Dev 0.9266
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

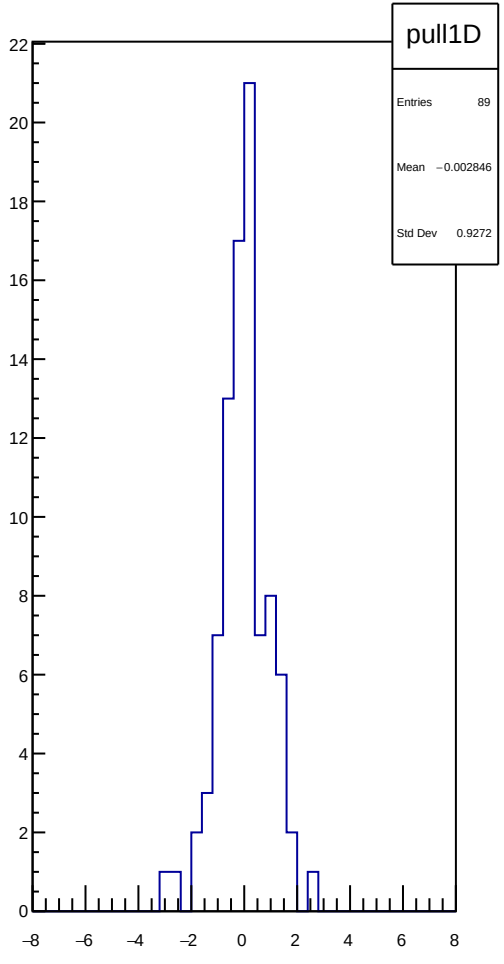

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 8151 / 88
p0 1411 ± 1.086
1700
1600
1500
1400
1300
1200

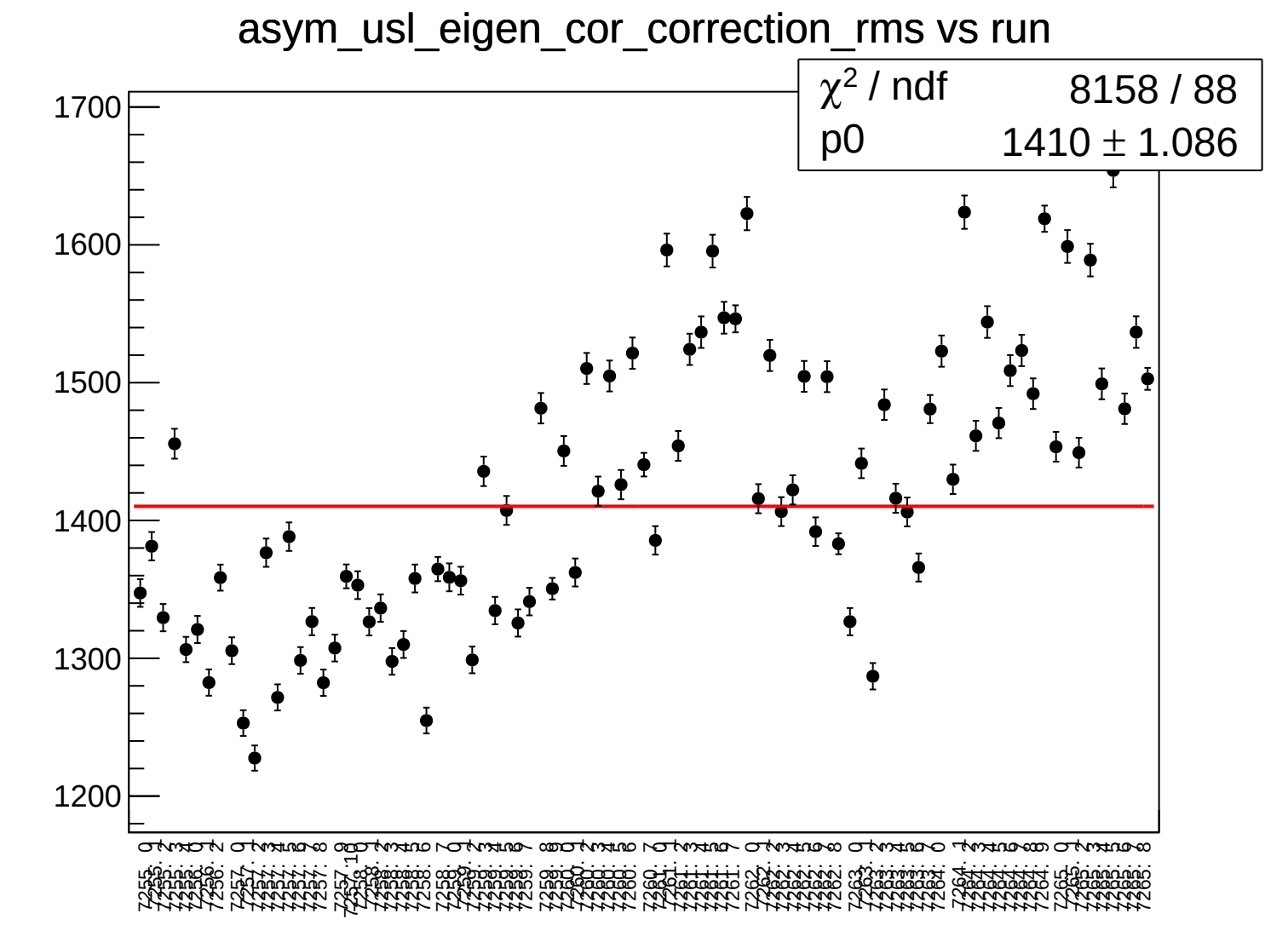

eigen_cor_asym_usl_mean vs run
χ² / ndf 83.17 / 88
p0 −2135 ± 1192
pull
Entries 89
Mean −96.64
Std Dev 0

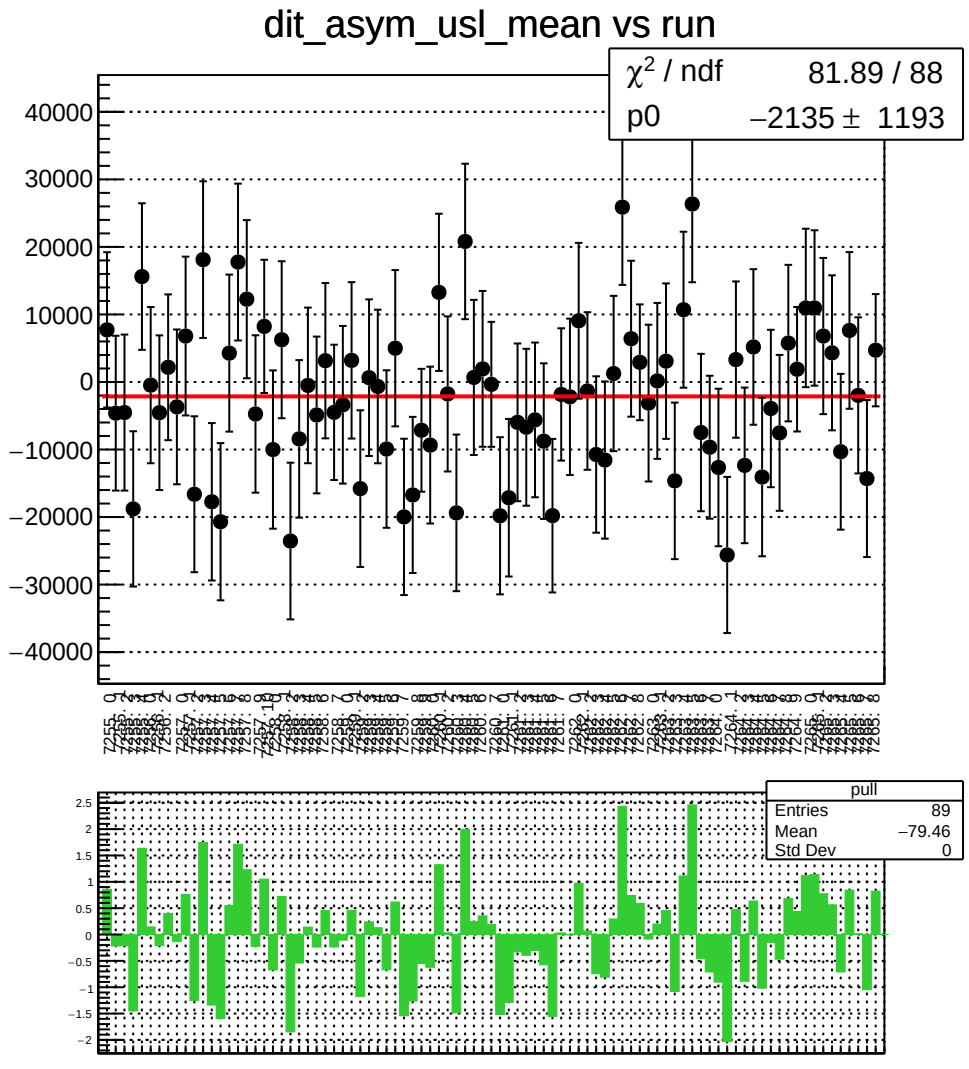

pull1D
Entries 89
Mean −0.009431
Std Dev 0.9667

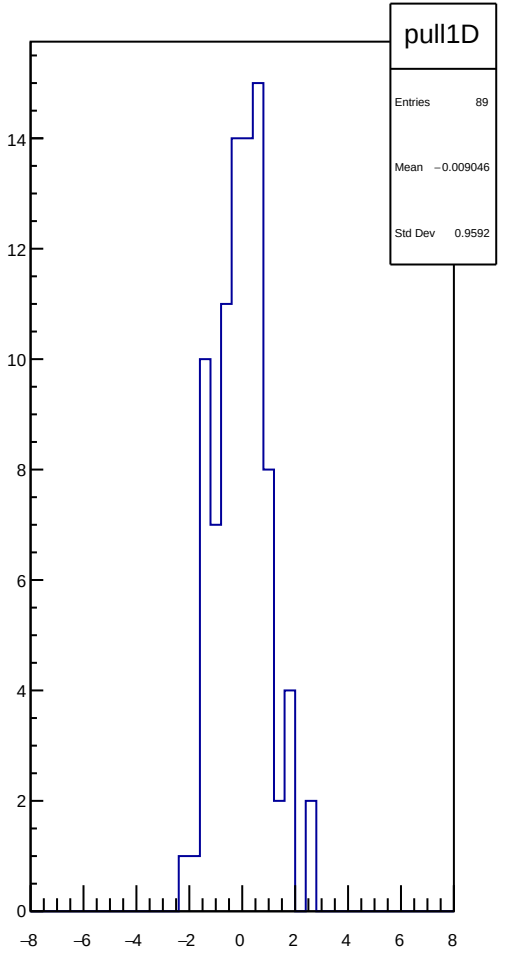

eigen_cor_asym_usl_rms vs run
χ² / ndf 76.91 / 88
p0 1098 ± 0.8431
1120
1110
1100
1090
1080
1070

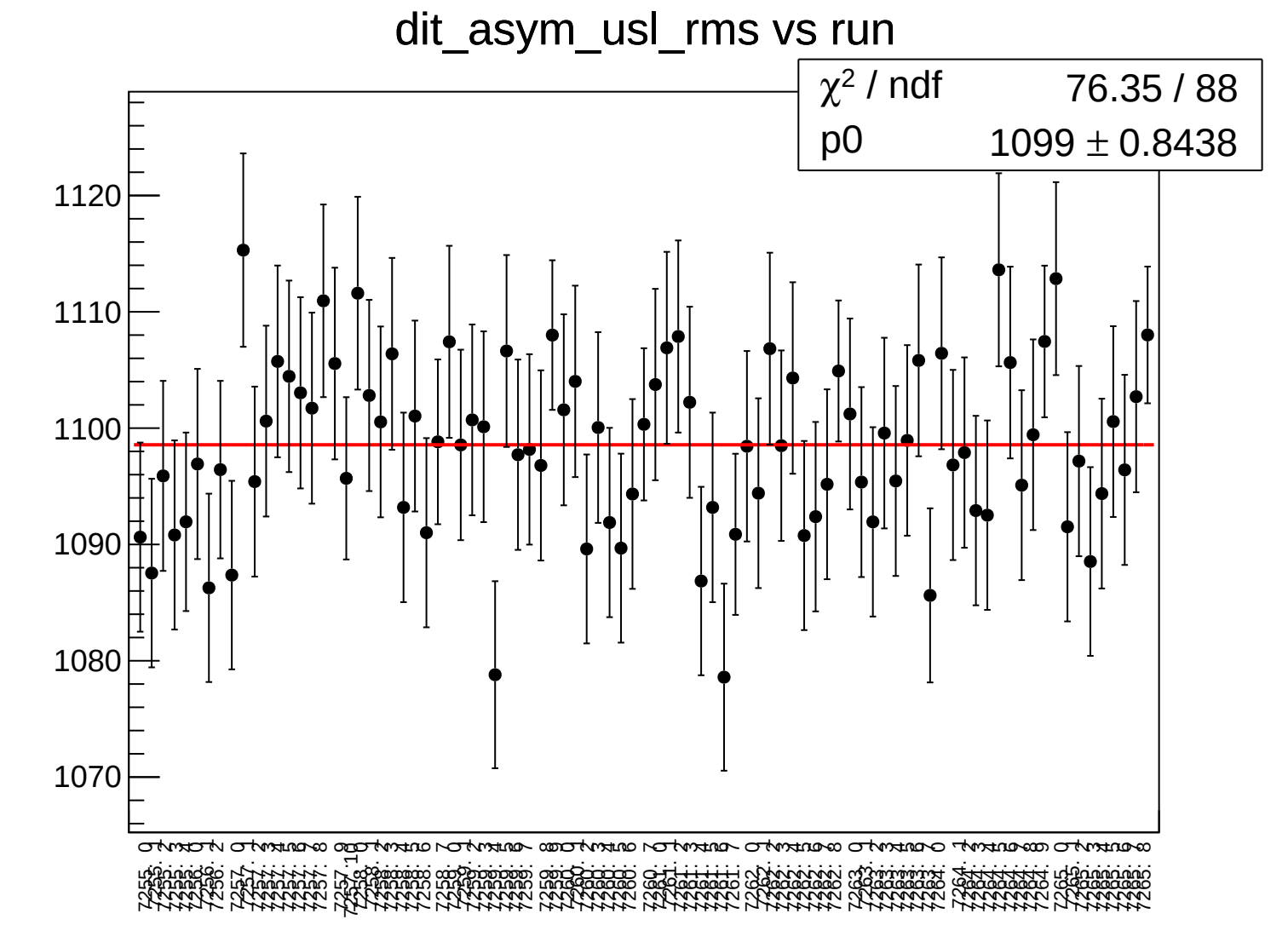

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 76.52 / 88
p0 135 ± 1536
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 894
Std Dev 0
2
1
0
−1
−2
−3

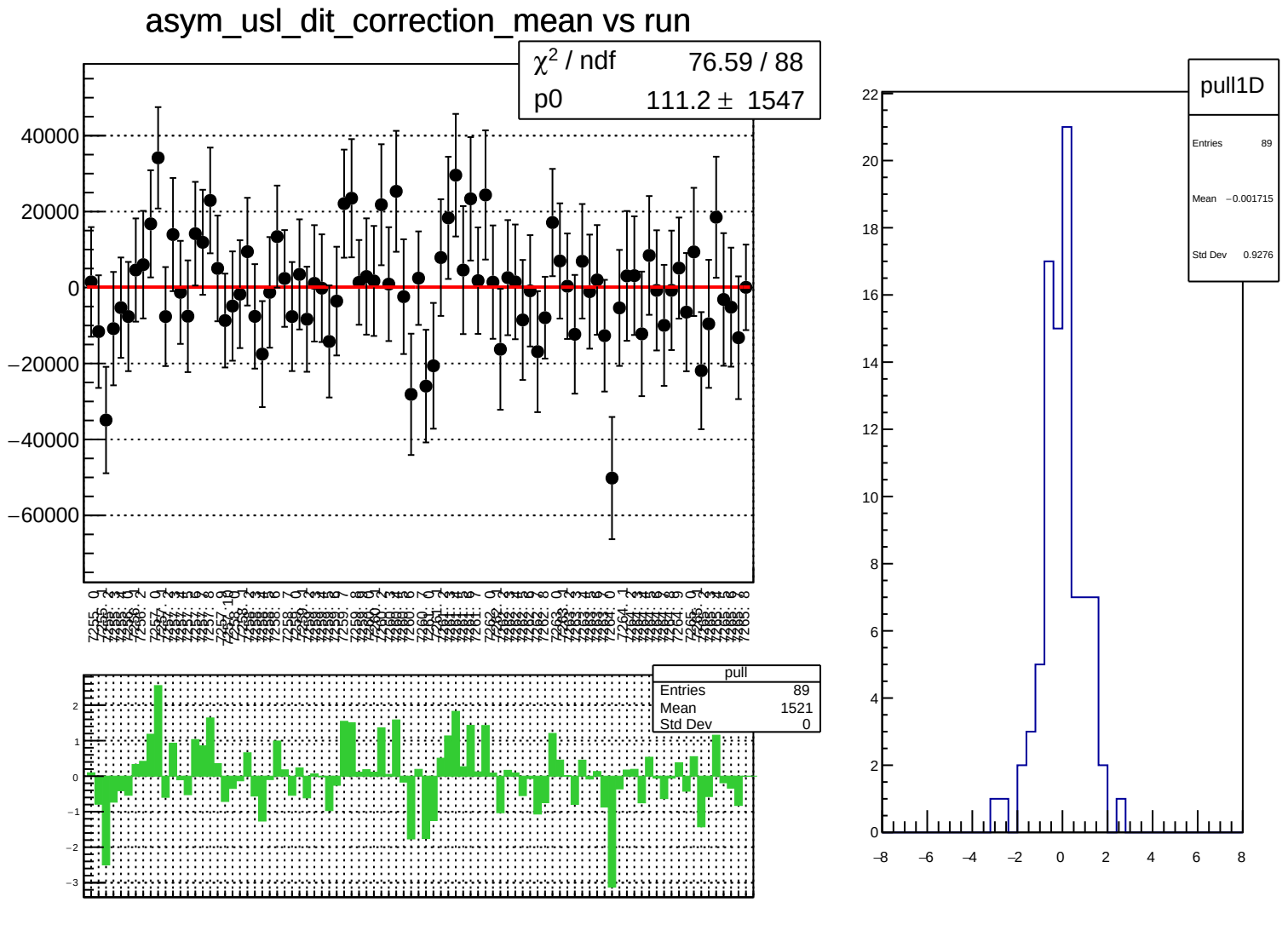

pull1D
Entries 89
Mean −0.002846
Std Dev 0.9272
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

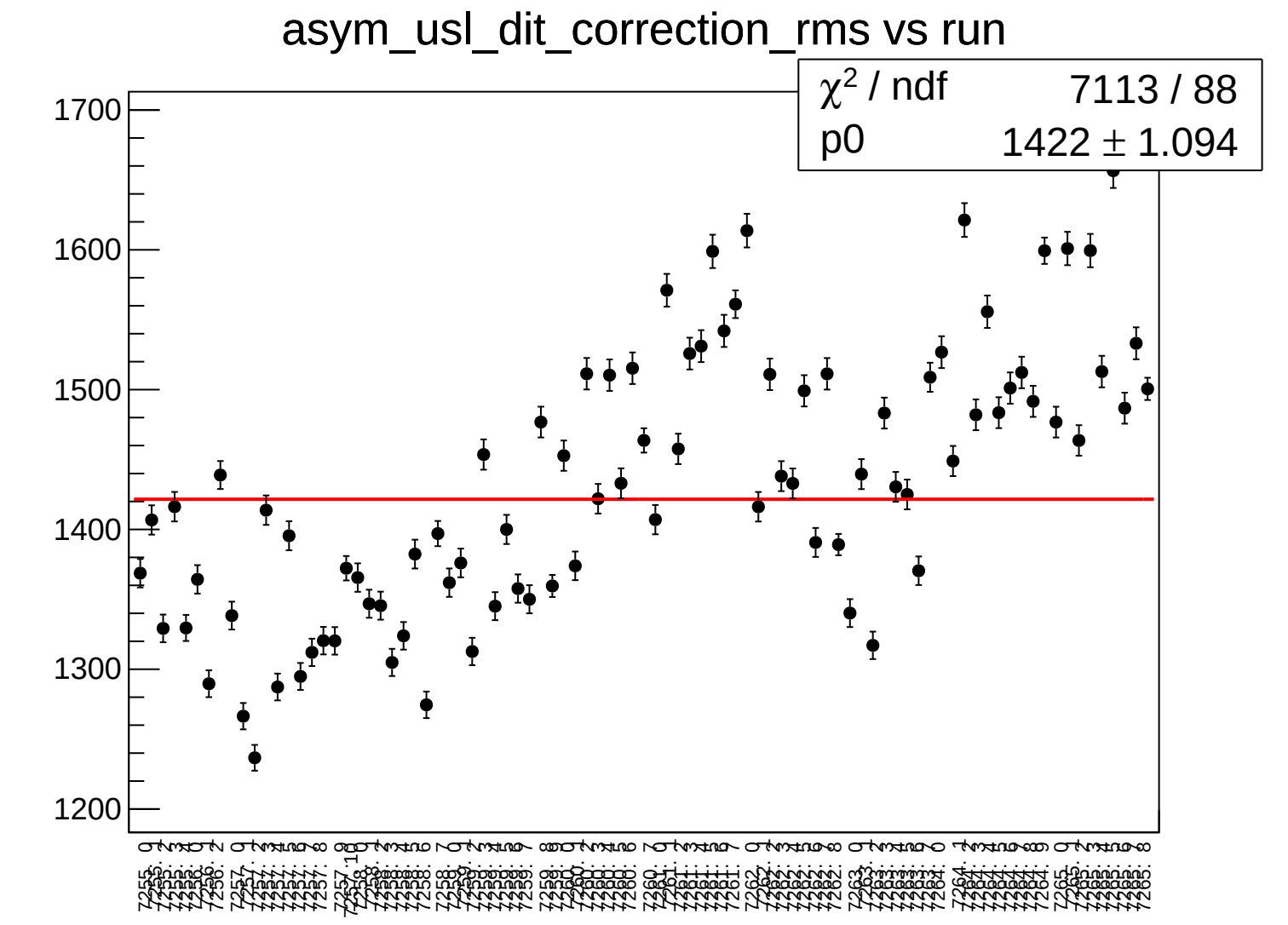

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 8158 / 88
p0 1410 ± 1.086
1700
1600
1500
1400
1300
1200

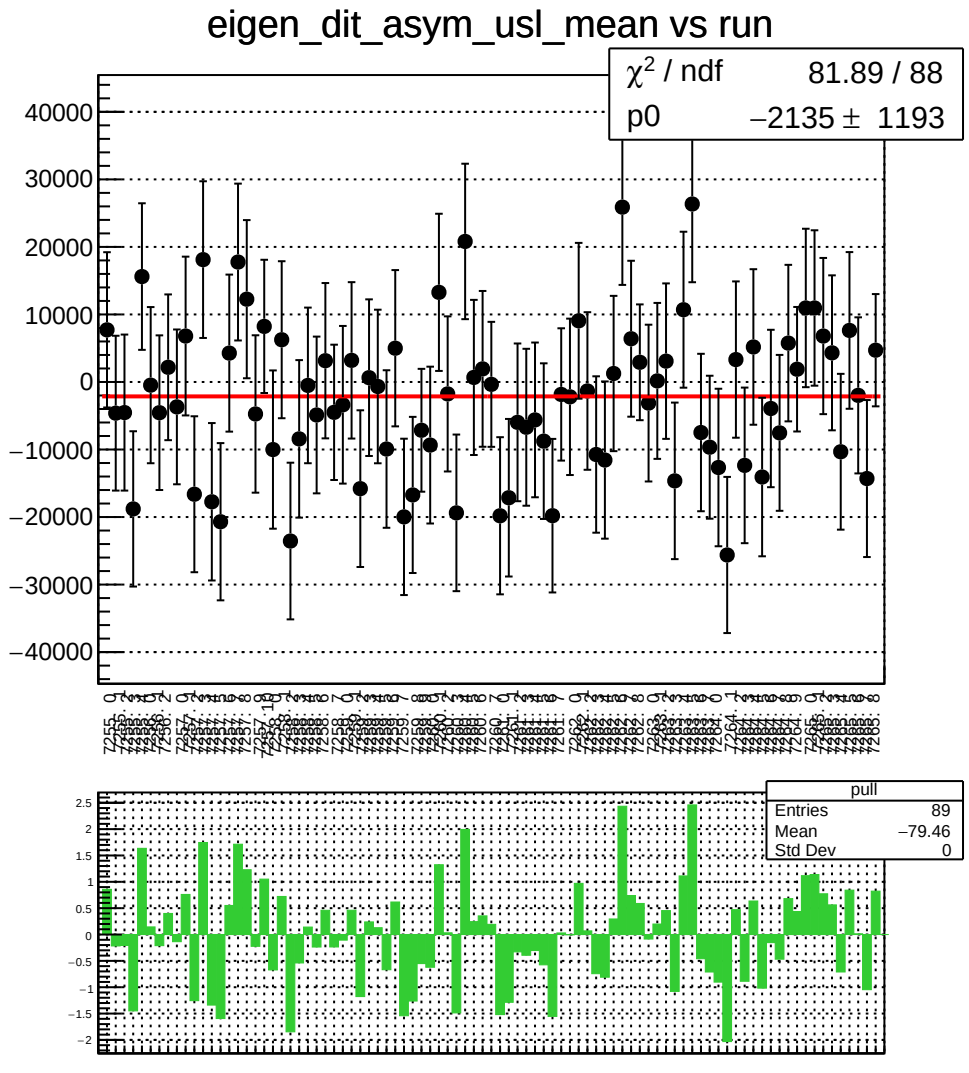

dit_asym_usl_mean vs run
χ² / ndf 81.89 / 88
p0 −2135 ± 1193
pull
Entries 89
Mean −79.46
Std Dev 0

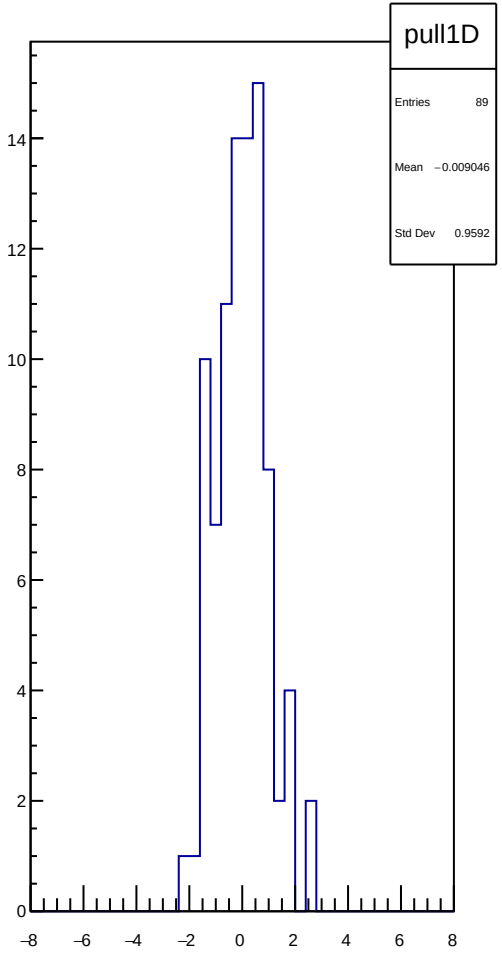

pull1D
Entries 89
Mean −0.009046
Std Dev 0.9592

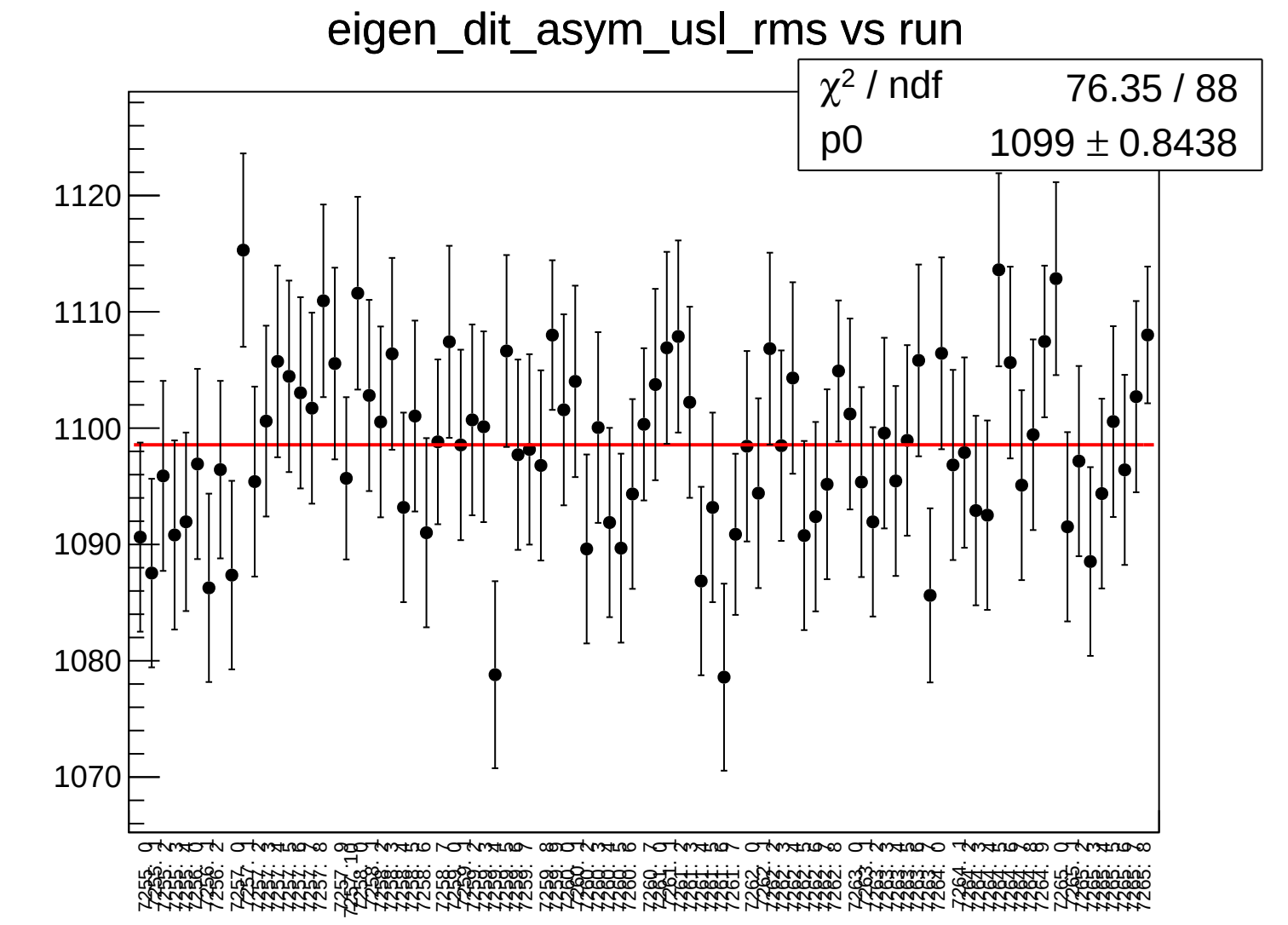

dit_asym_usl_rms vs run
χ² / ndf 76.35 / 88
p0 1099 ± 0.8438
1120
1110
1100
1090
1080
1070

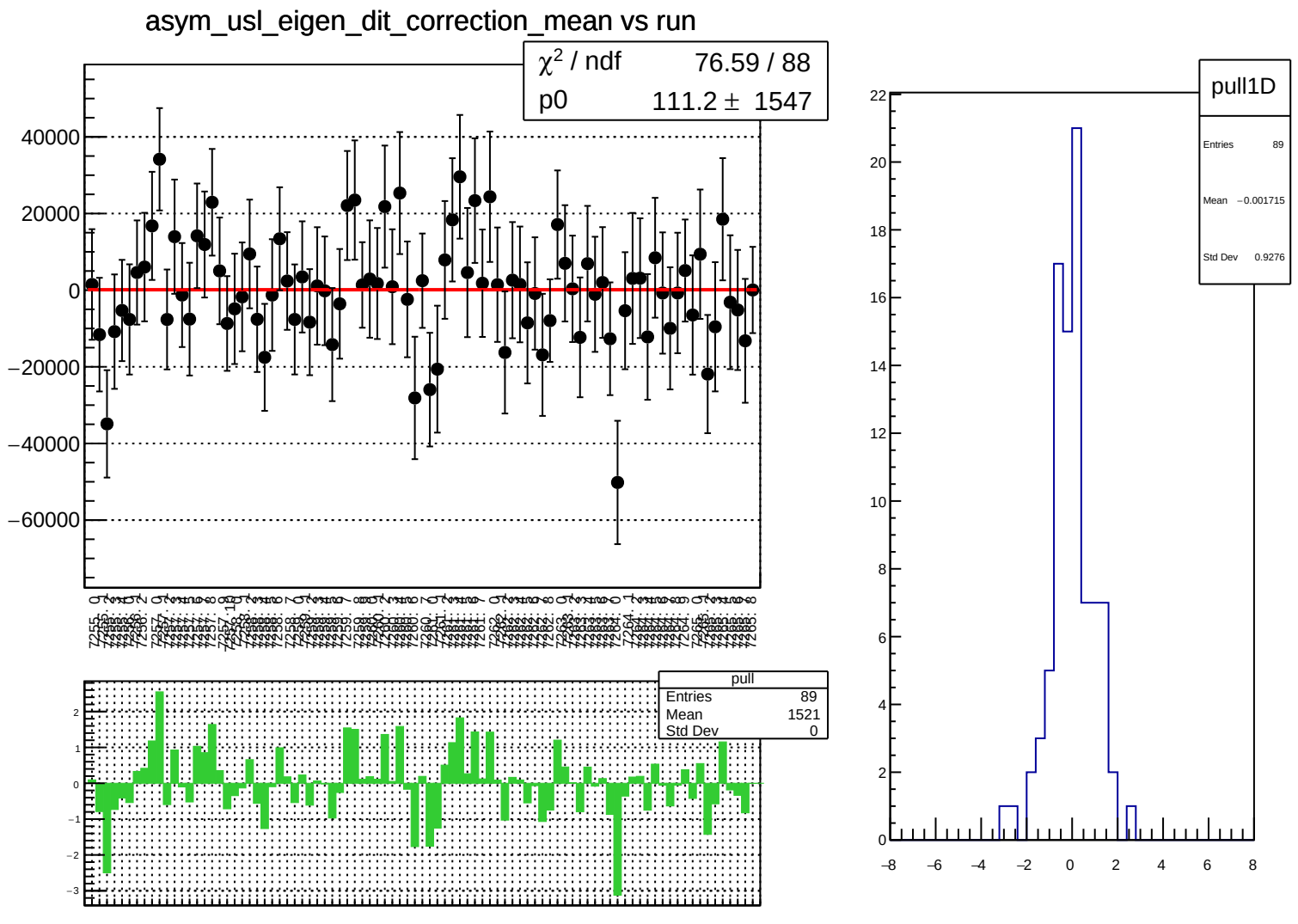

asym_usl_dit_correction_mean vs run
χ² / ndf 76.59 / 88
p0 111.2 ± 1547
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 1521
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.001715
Std Dev 0.9276
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

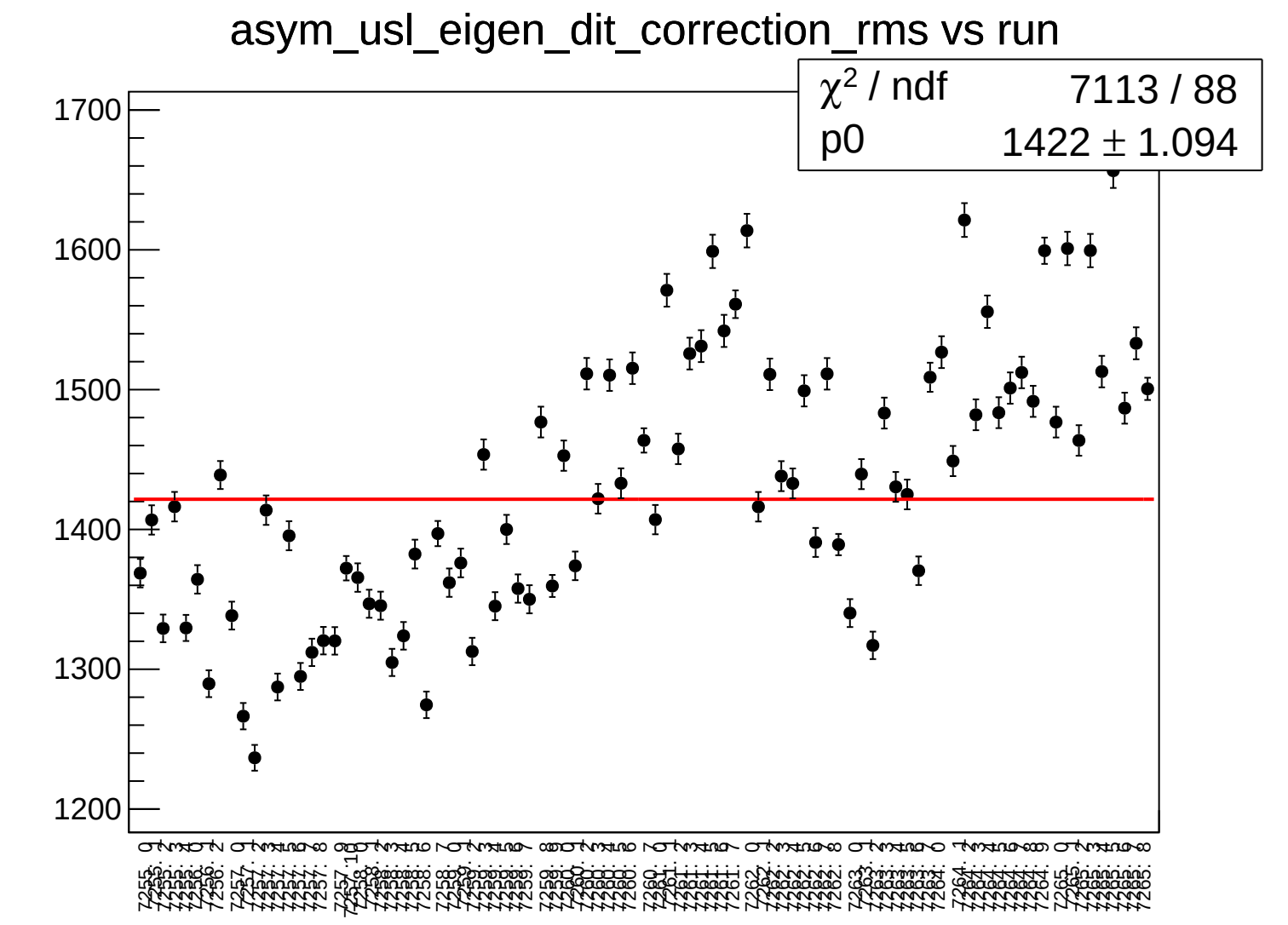

asym_usl_dit_correction_rms vs run
χ² / ndf 7113 / 88
p0 1422 ± 1.094
1700
1600
1500
1400
1300
1200

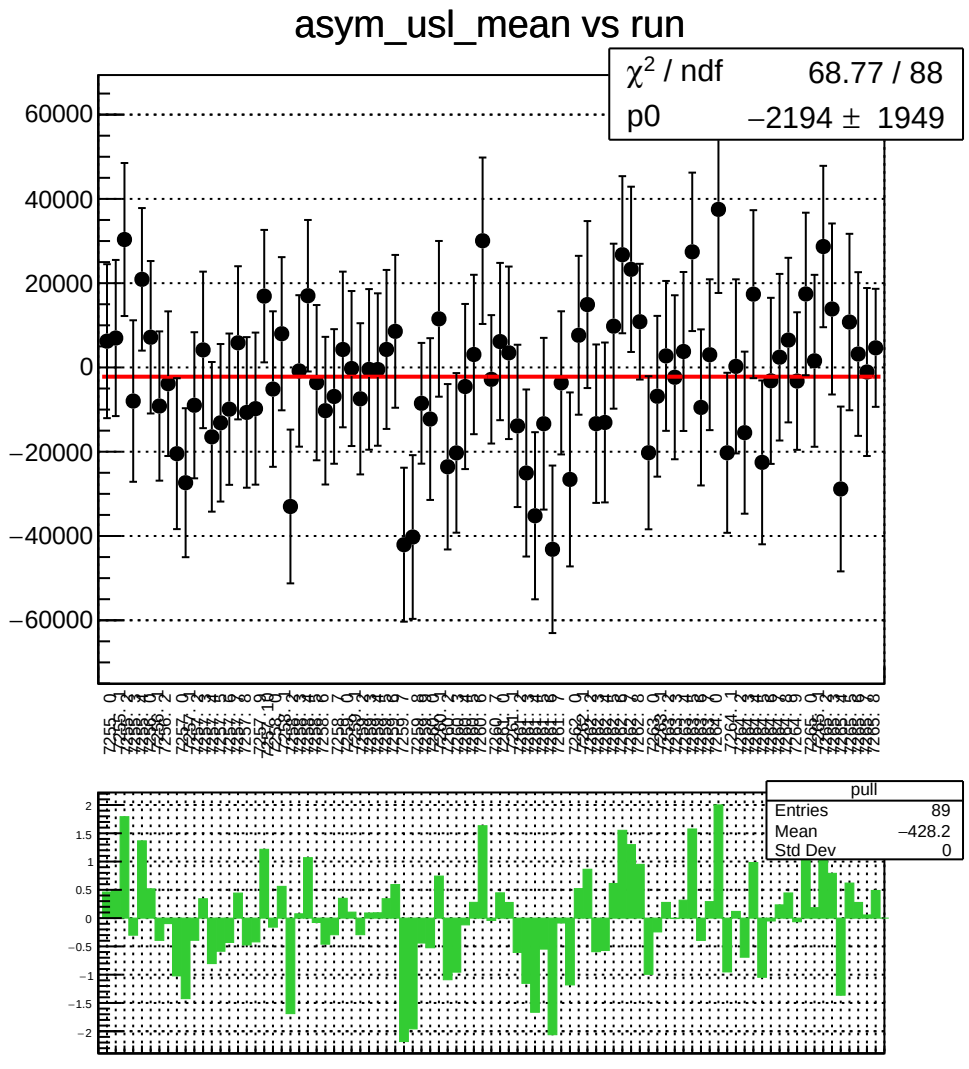

eigen_dit_asym_usl_mean vs run
χ² / ndf 81.89 / 88
p0 −2135 ± 1193
pull
Entries 89
Mean −79.46
Std Dev 0

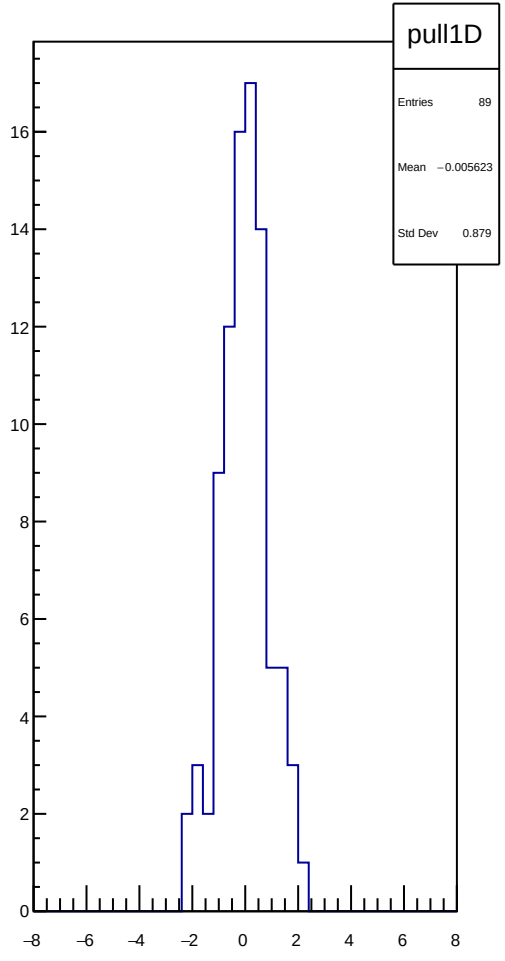

pull1D
Entries 89
Mean −0.009046
Std Dev 0.9592

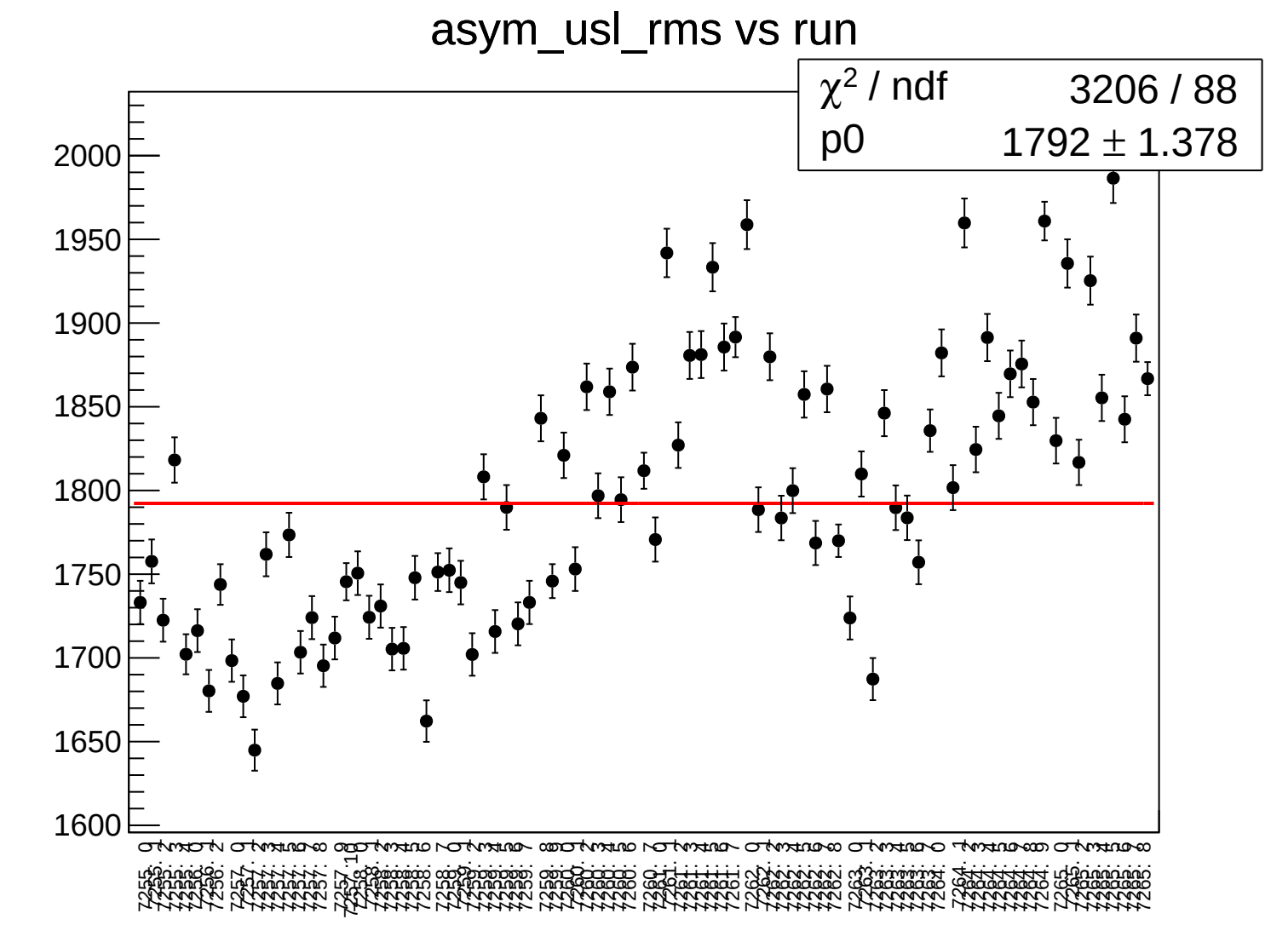

eigen_dit_asym_usl_rms vs run
χ² / ndf 76.35 / 88
p0 1099 ± 0.8438
1120
1110
1100
1090
1080
1070

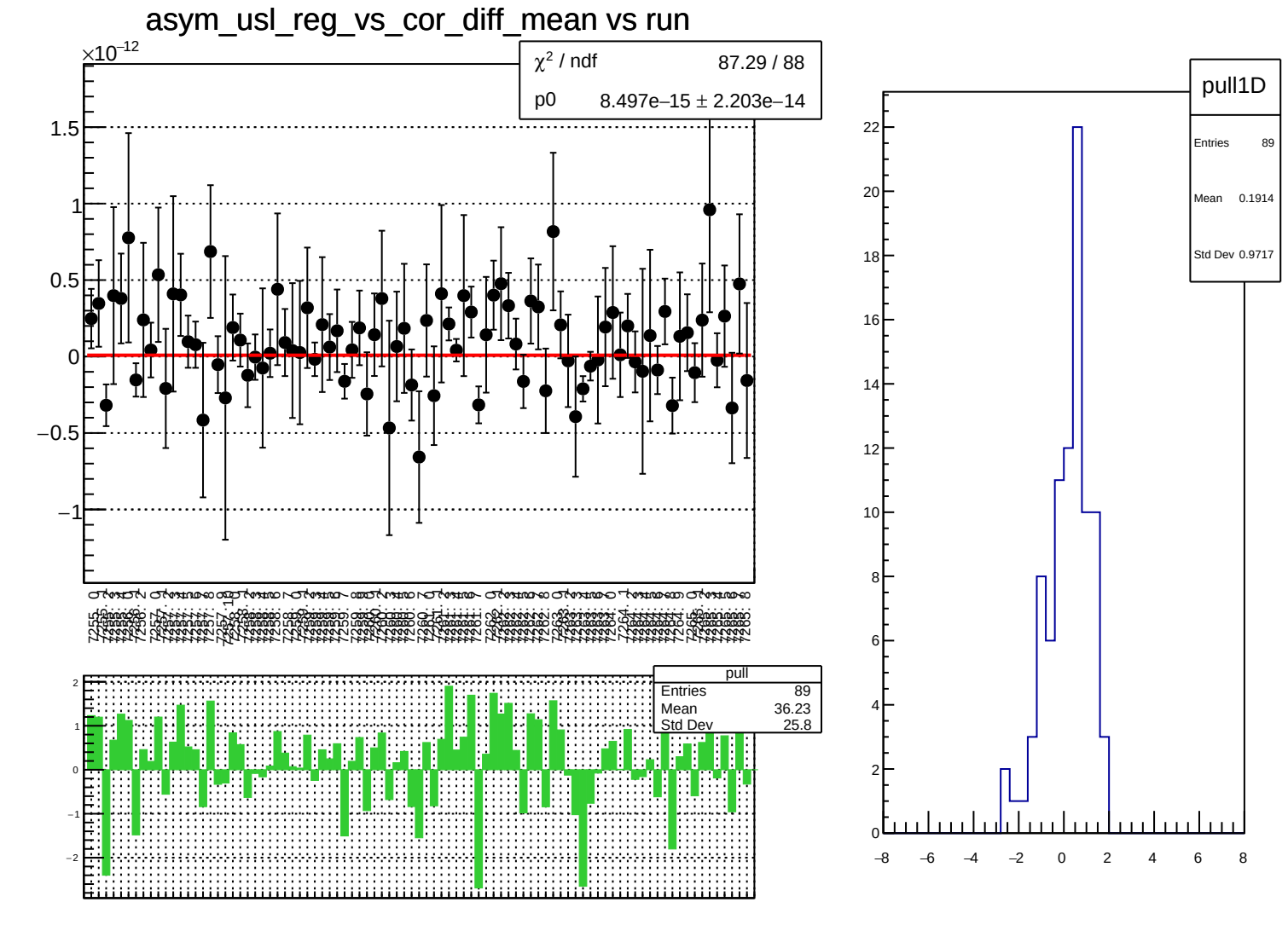

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 76.59 / 88
p0 111.2 ± 1547
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 1521
Std Dev 0
pull1D
Entries 89
Mean −0.001715
Std Dev 0.9276

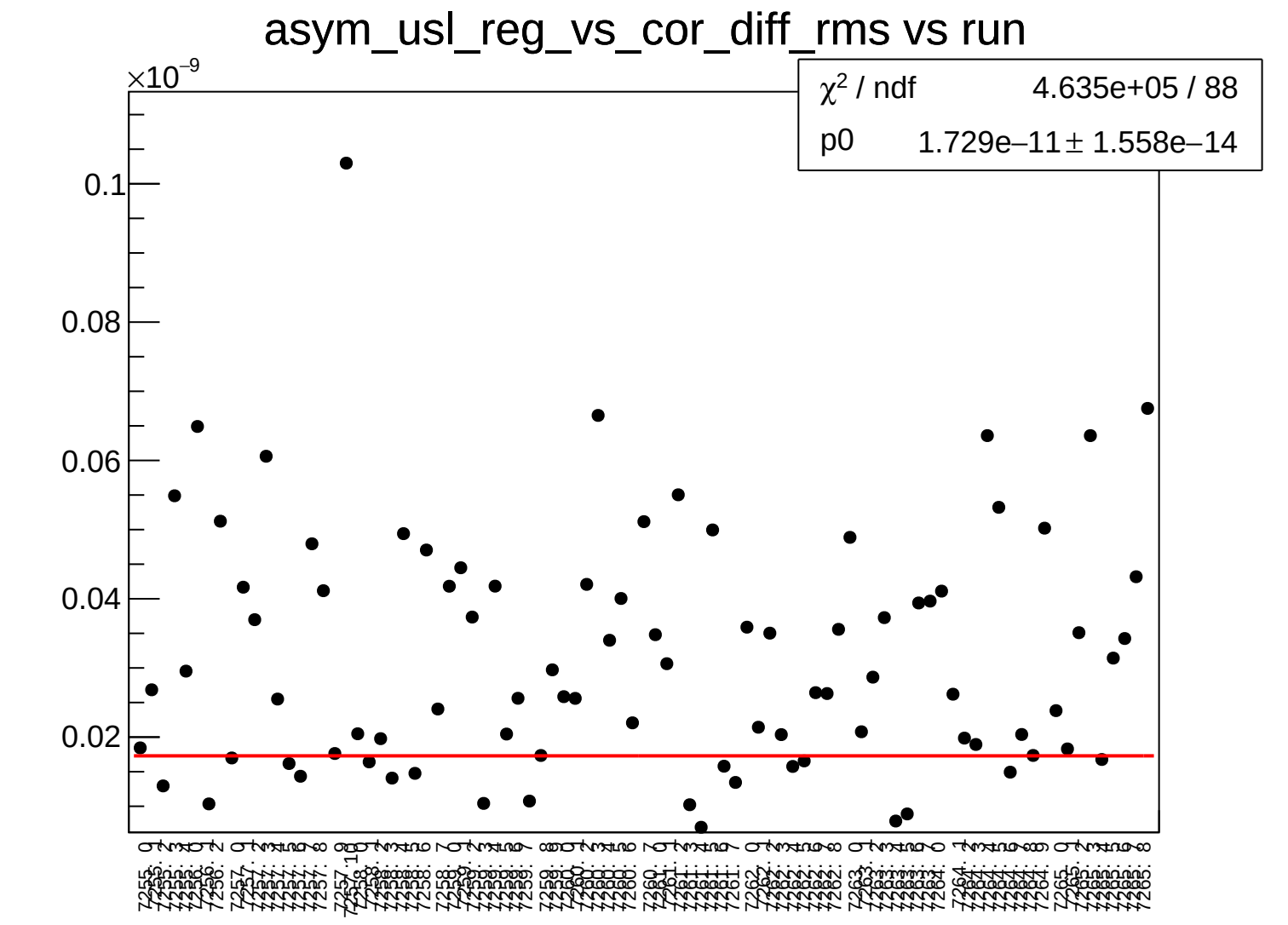

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 7113 / 88
p0 1422 ± 1.094
1700
1600
1500
1400
1300
1200

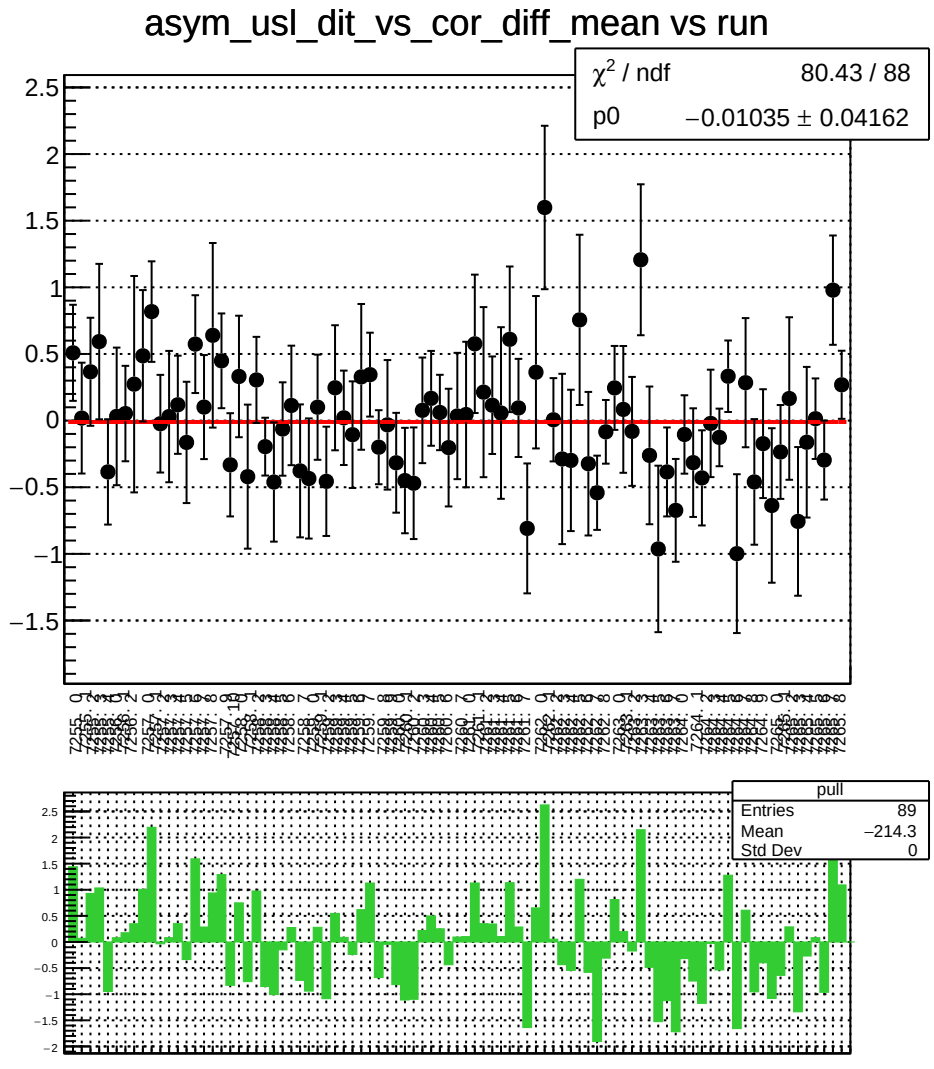

asym_usl_mean vs run
χ² / ndf 68.77 / 88
p0 −2194 ± 1949
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −428.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

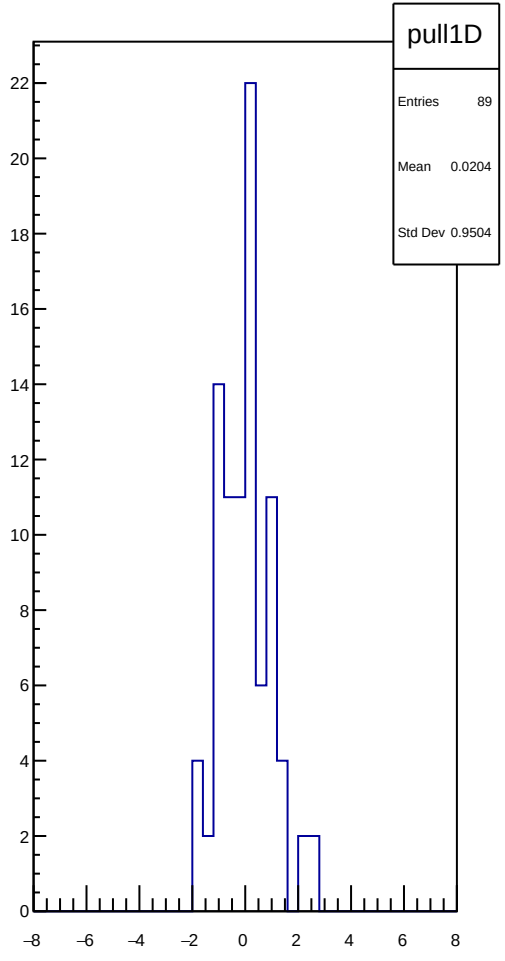

pull1D
Entries 89
Mean −0.005623
Std Dev 0.879
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

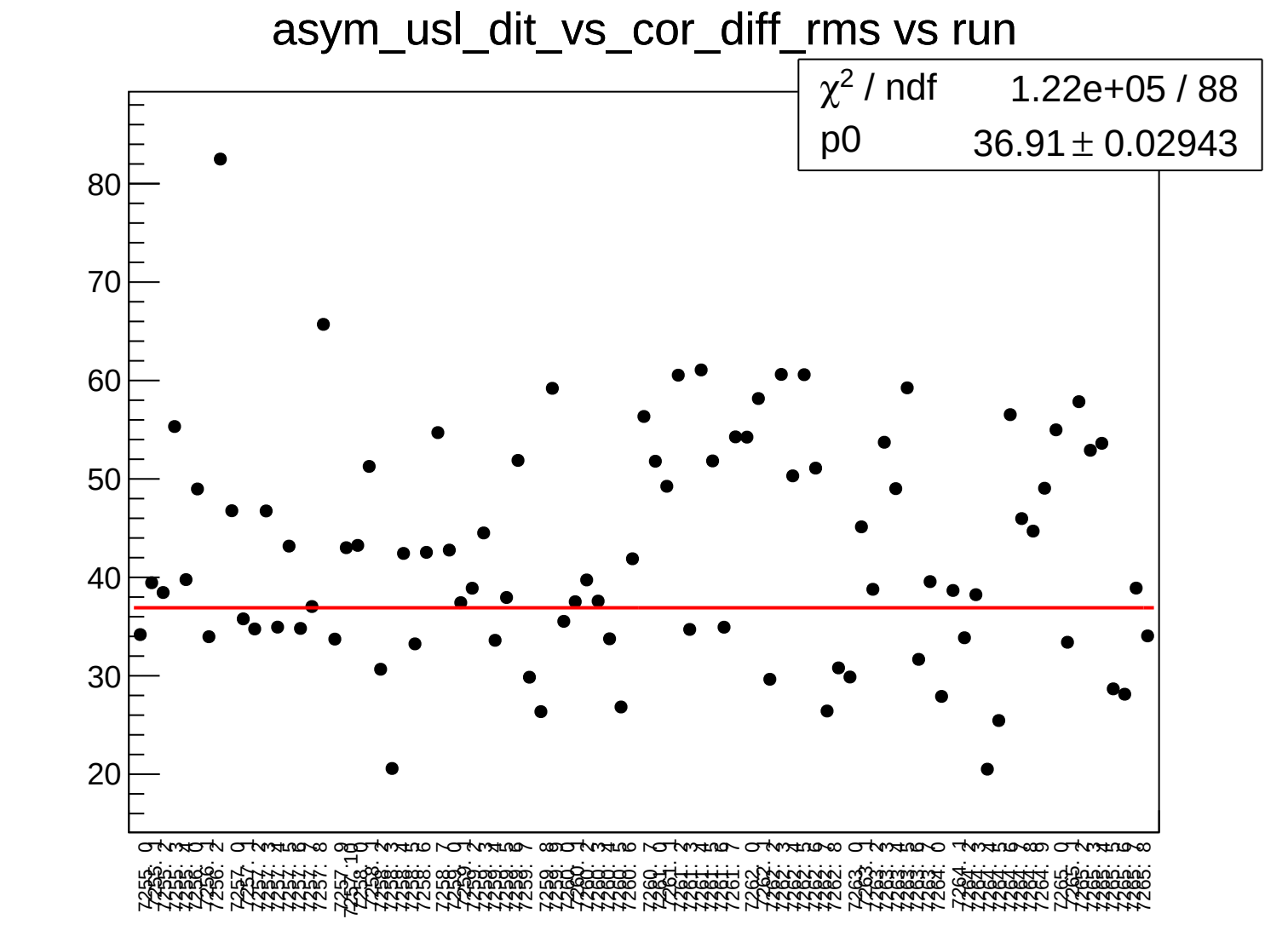

asym_usl_rms vs run
χ² / ndf 3206 / 88
p0 1792 ± 1.378
2000
1950
1900
1850
1800
1750
1700
1650
1600

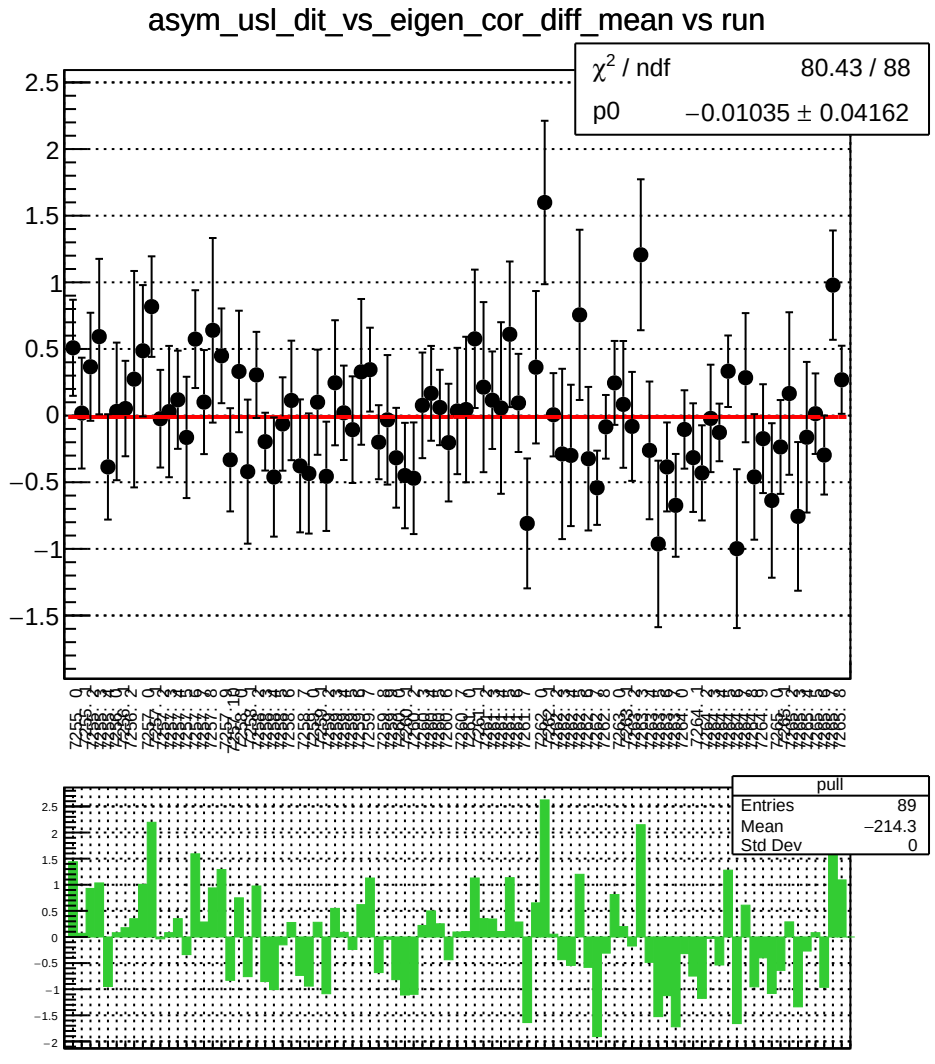

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.29 / 88
p0 8.497e−15 ± 2.203e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 89
Mean 36.23
Std Dev 25.8
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.1914
Std Dev 0.9717
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

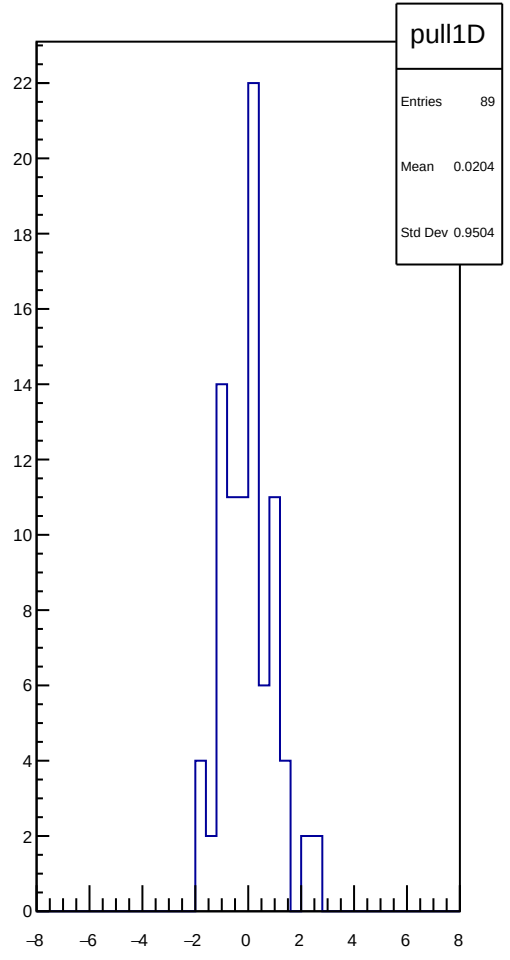

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.635e+05 / 88
p0 1.729e−11 ± 1.558e−14
0.1
0.08
0.06
0.04
0.02

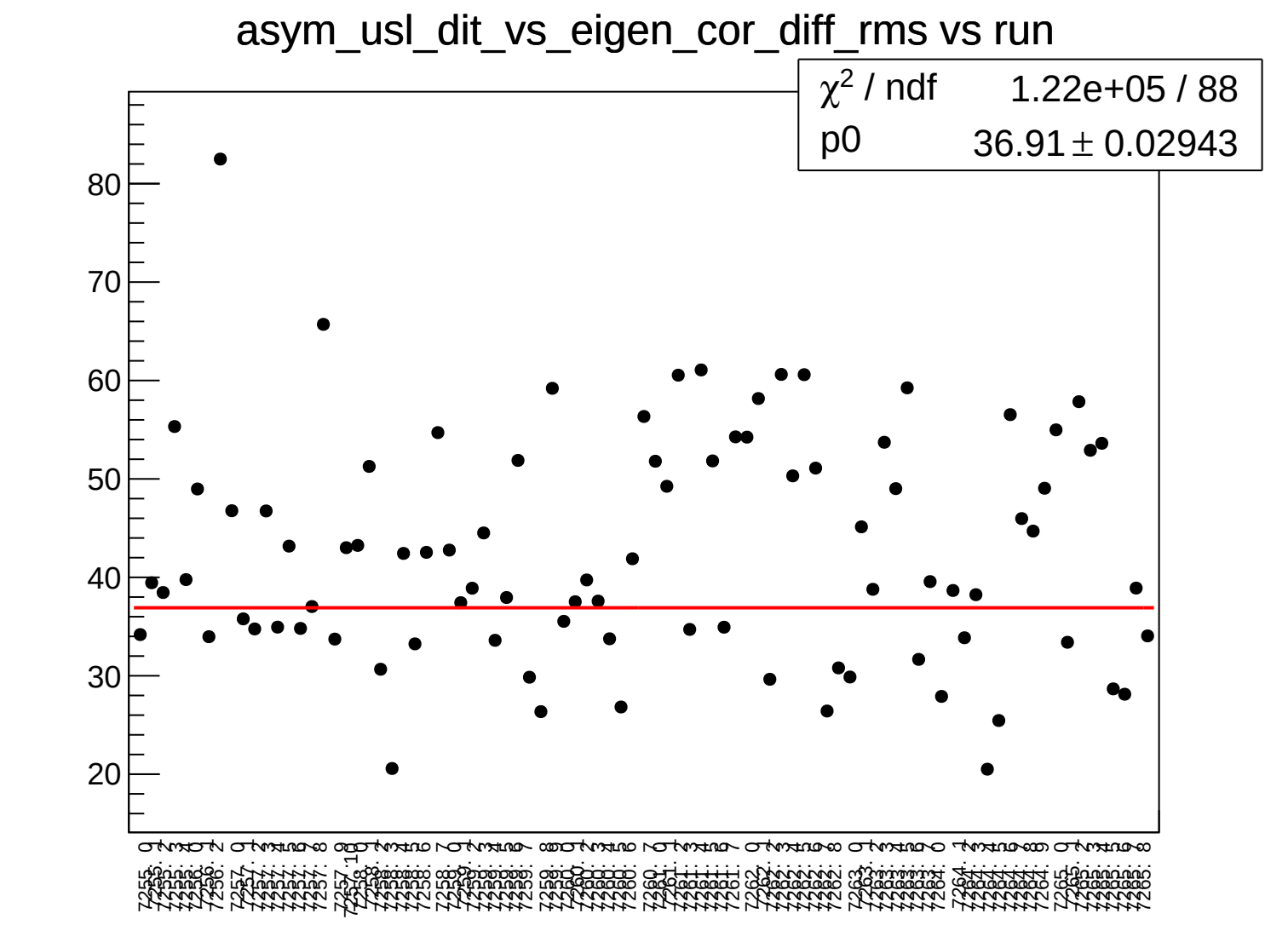

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 80.43 / 88
p0 −0.01035 ± 0.04162
pull
Entries 89
Mean −214.3
Std Dev 0

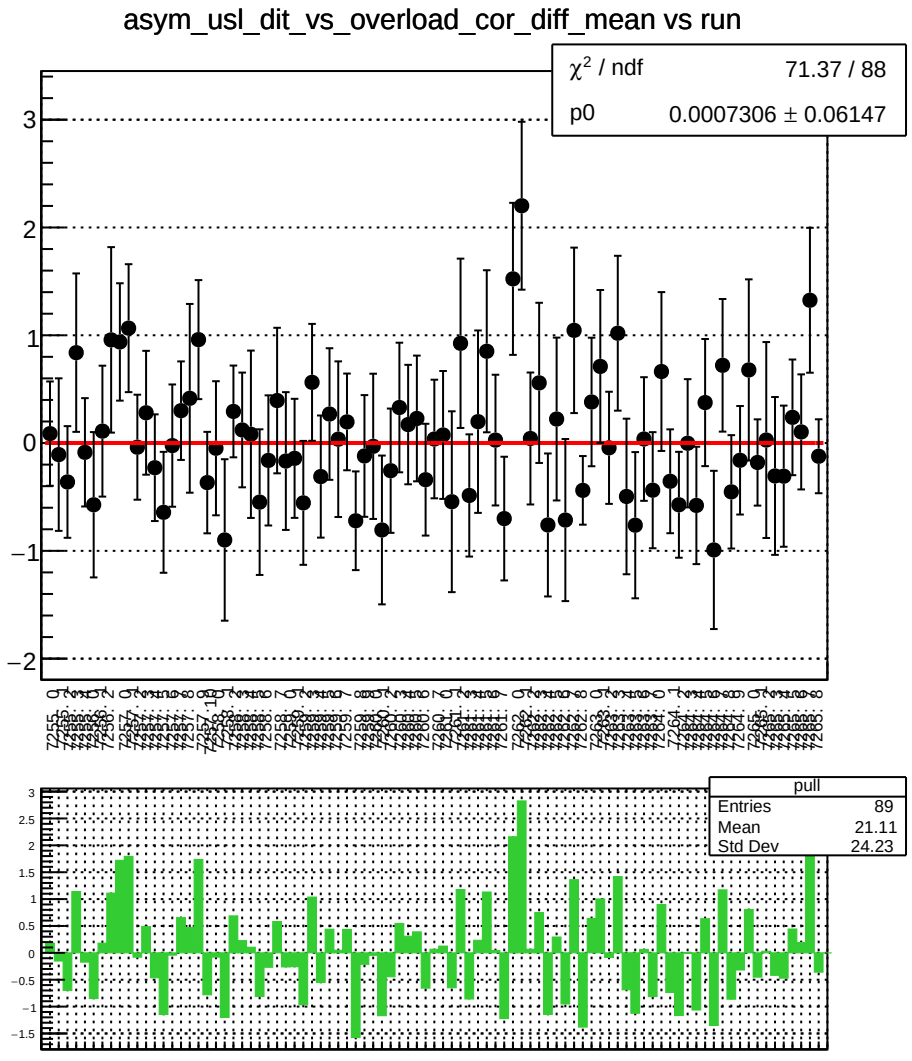

pull1D
Entries 89
Mean 0.0204
Std Dev 0.9504

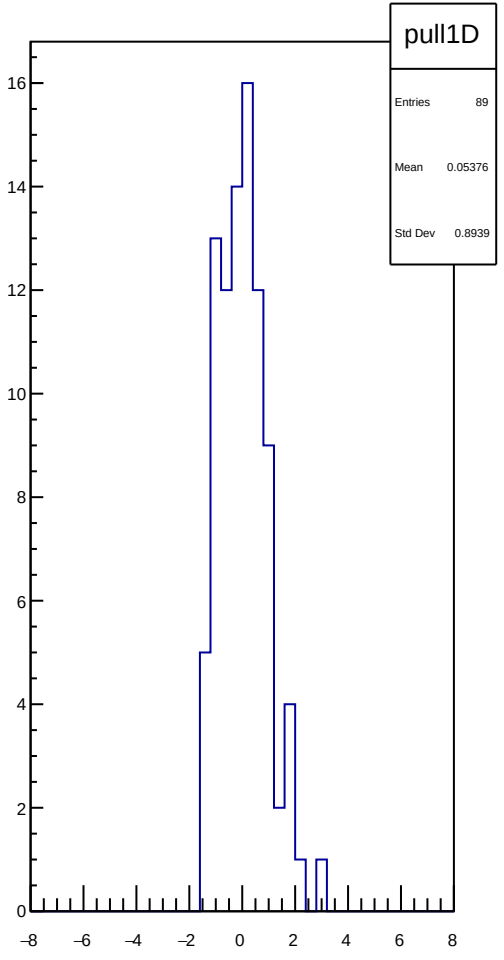

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 1.22e+05 / 88
p0 36.91 ± 0.02943
80
70
60
50
40
30
20

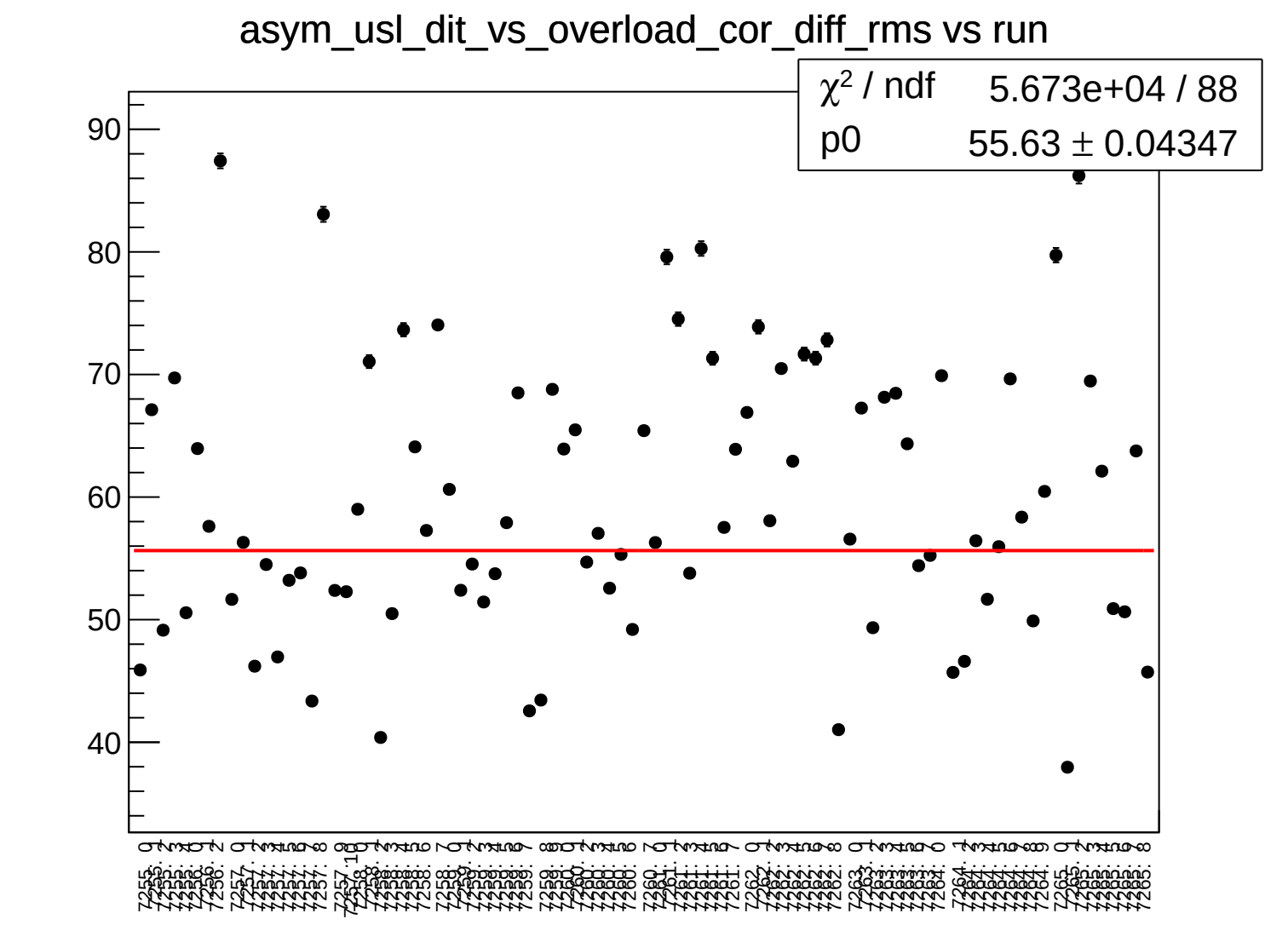

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.43 / 88
p0 −0.01035 ± 0.04162
pull
Entries 89
Mean −214.3
Std Dev 0

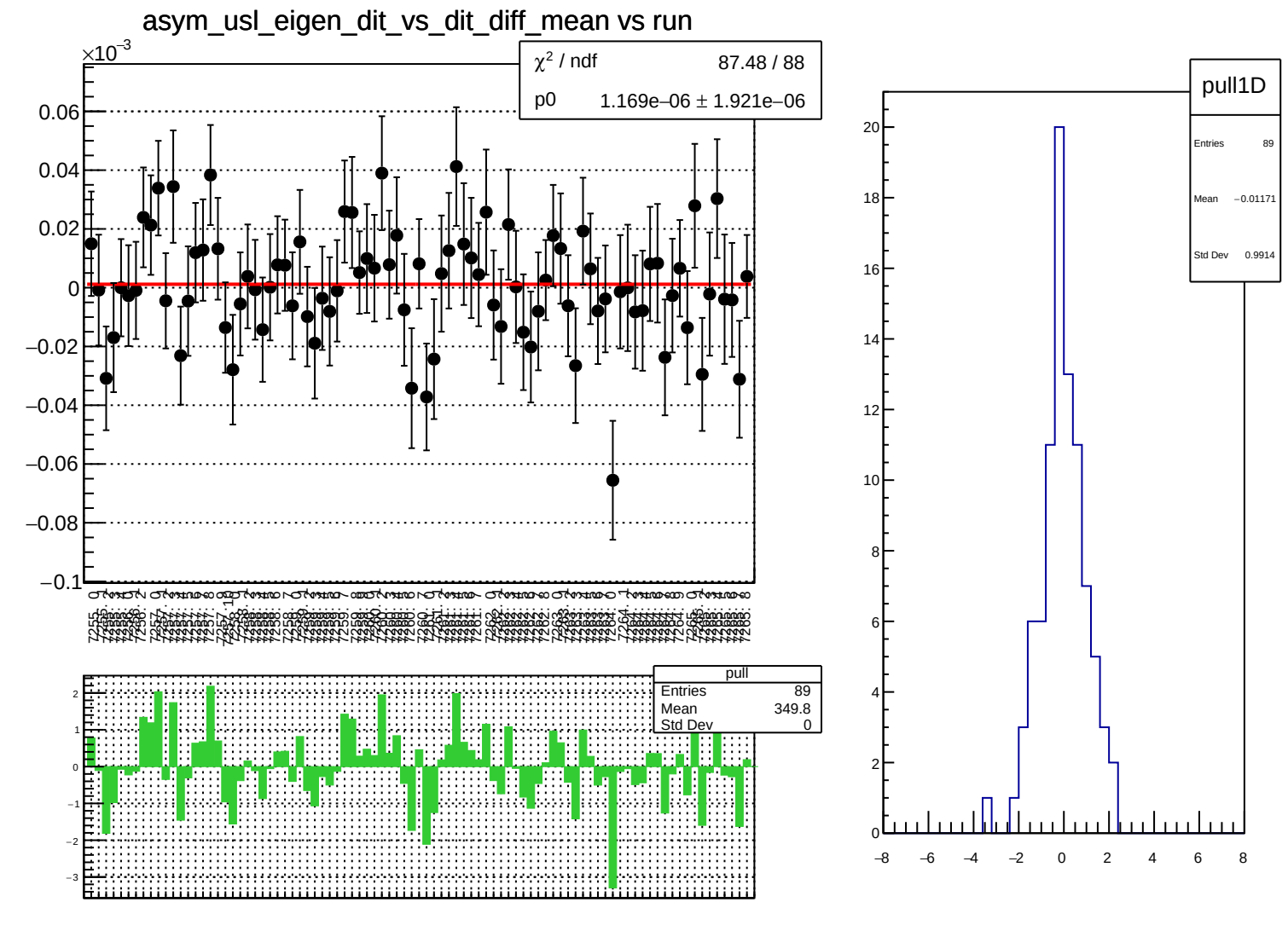

pull1D
Entries 89
Mean 0.0204
Std Dev 0.9504

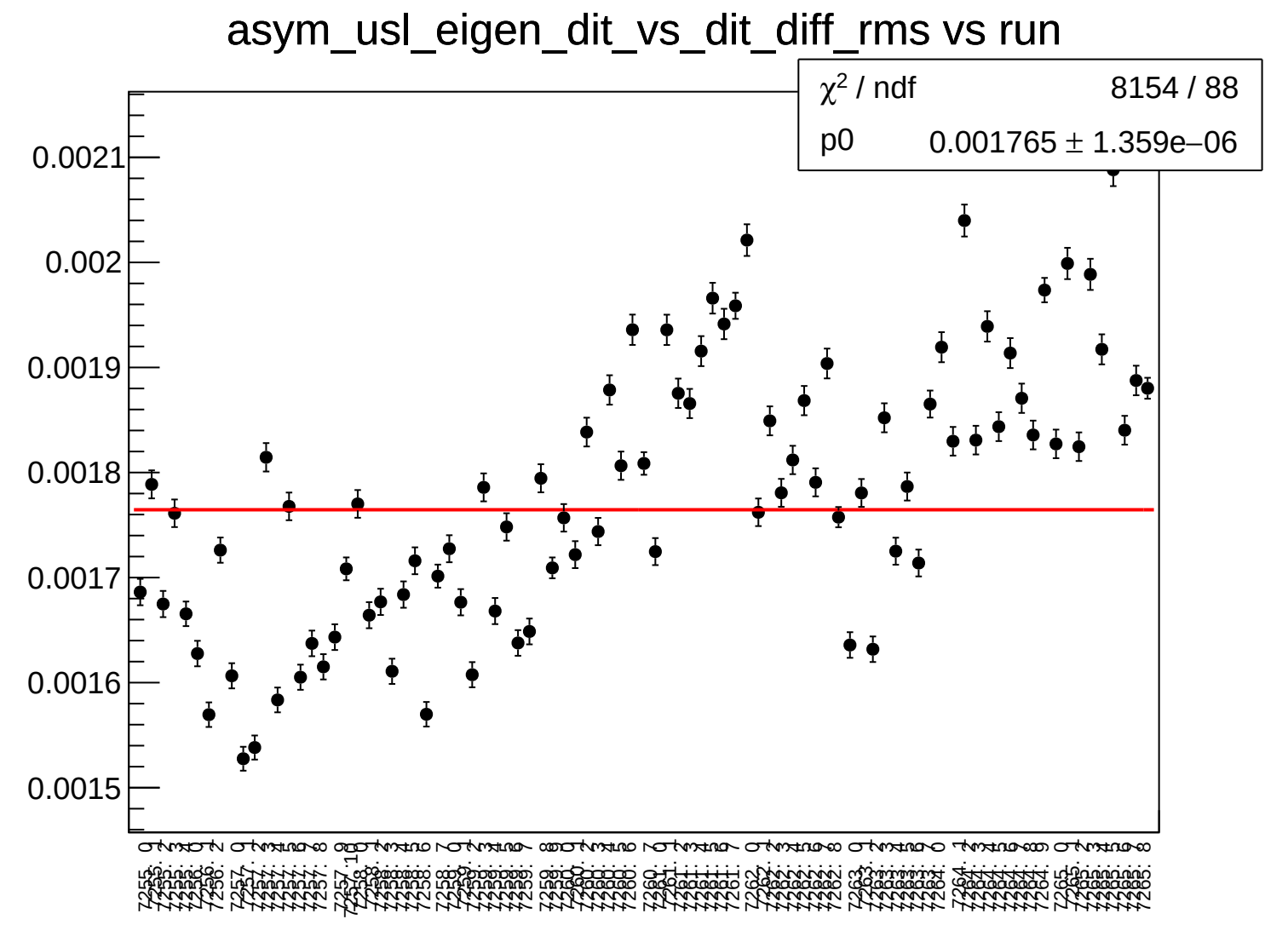

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.22e+05 / 88
p0 36.91 ± 0.02943
80
70
60
50
40
30
20

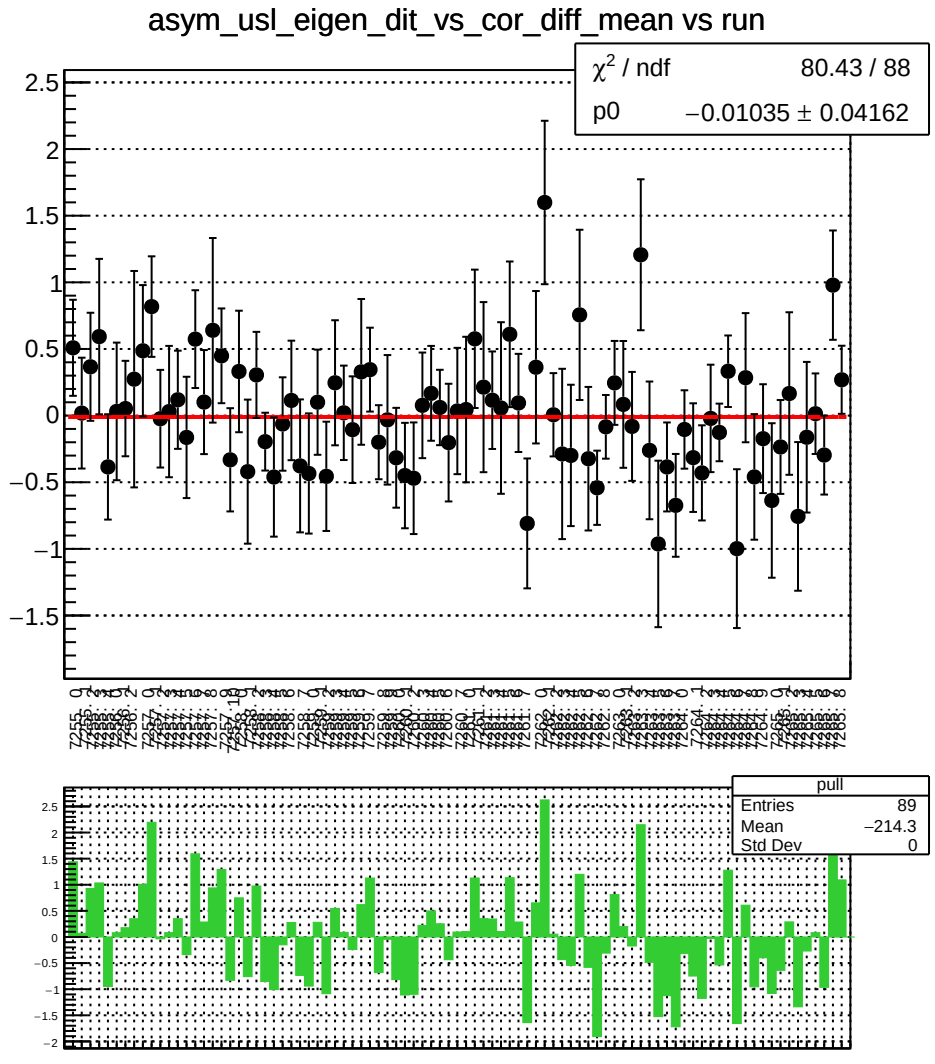

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 71.37 / 88
p0 0.0007306 ± 0.06147
pull
Entries 89
Mean 21.11
Std Dev 24.23

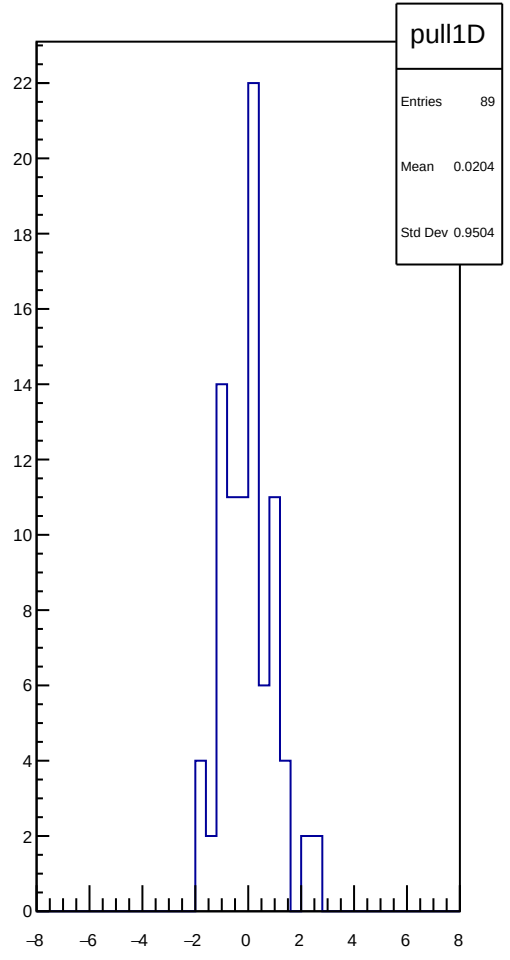

pull1D
Entries 89
Mean 0.05376
Std Dev 0.8939

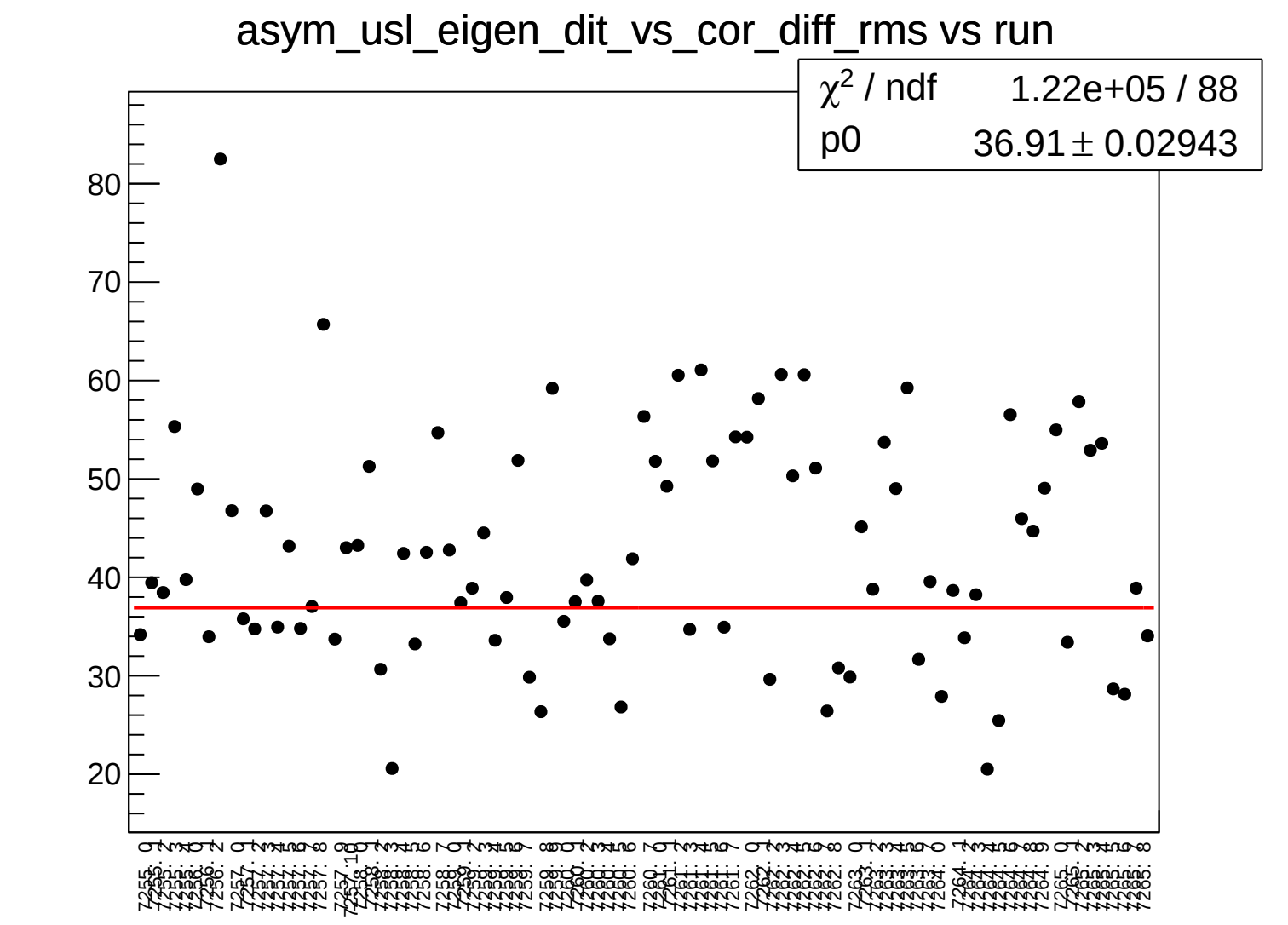

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.673e+04 / 88
p0 55.63 ± 0.04347
90
80
70
60
50
40

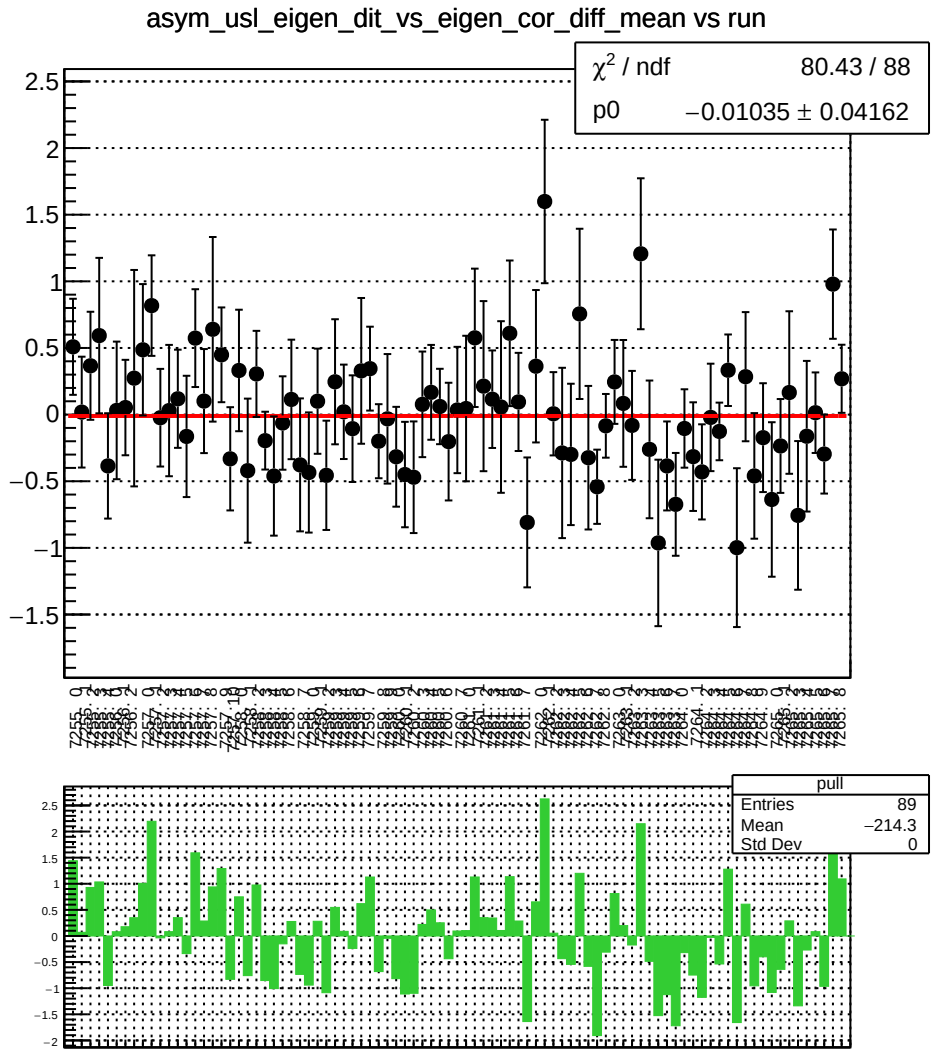

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.48 / 88
p0 1.169e−06 ± 1.921e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 89
Mean 349.8
Std Dev 0
pull1D
Entries 89
Mean −0.01171
Std Dev 0.9914
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

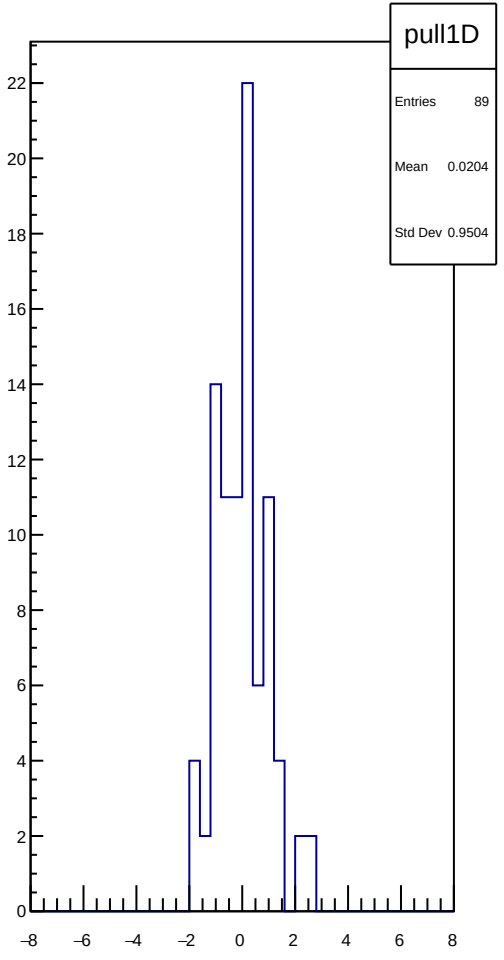

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8154 / 88
p0 0.001765 ± 1.359e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

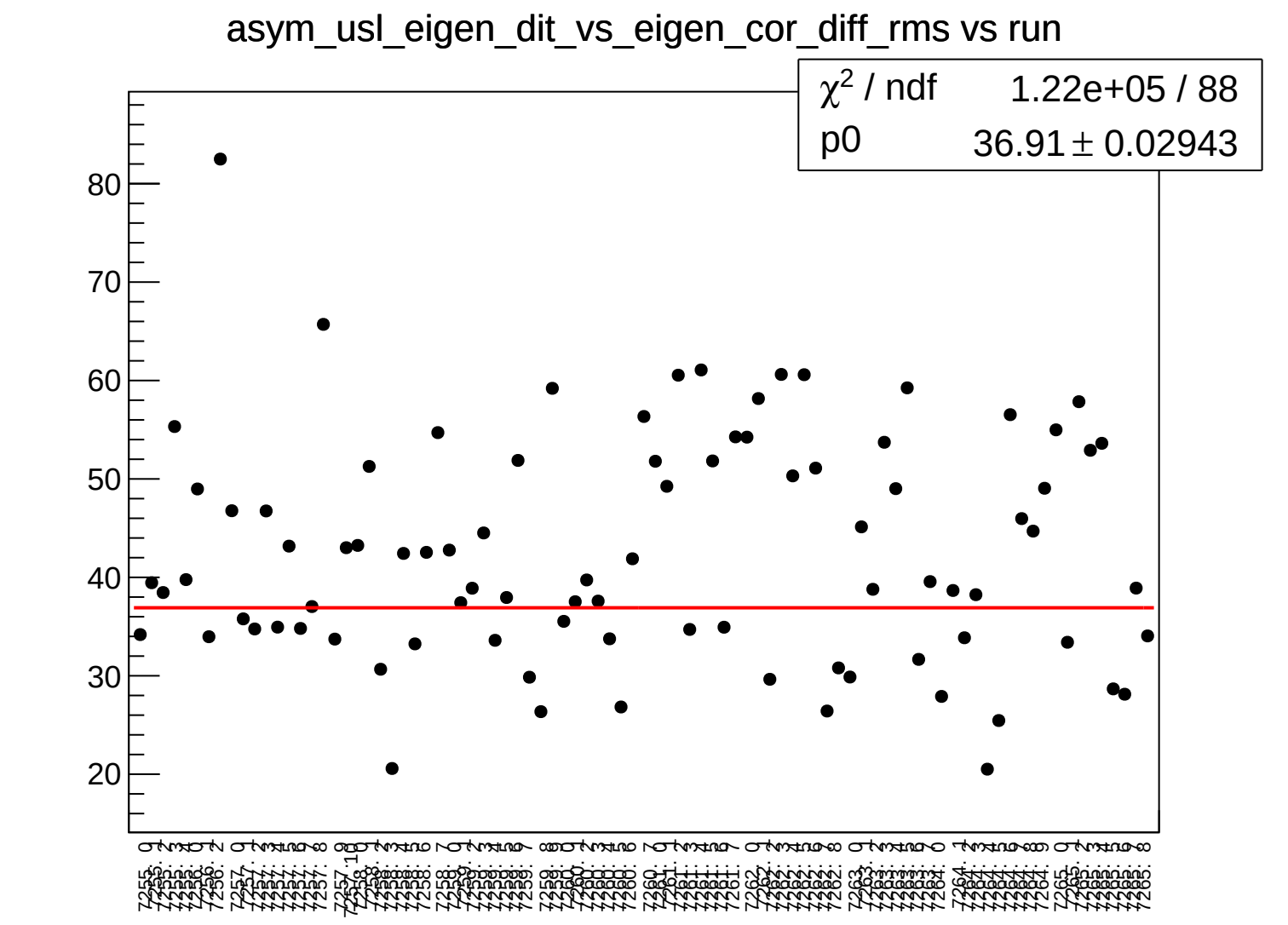

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.43 / 88
p0 −0.01035 ± 0.04162
pull
Entries 89
Mean −214.3
Std Dev 0

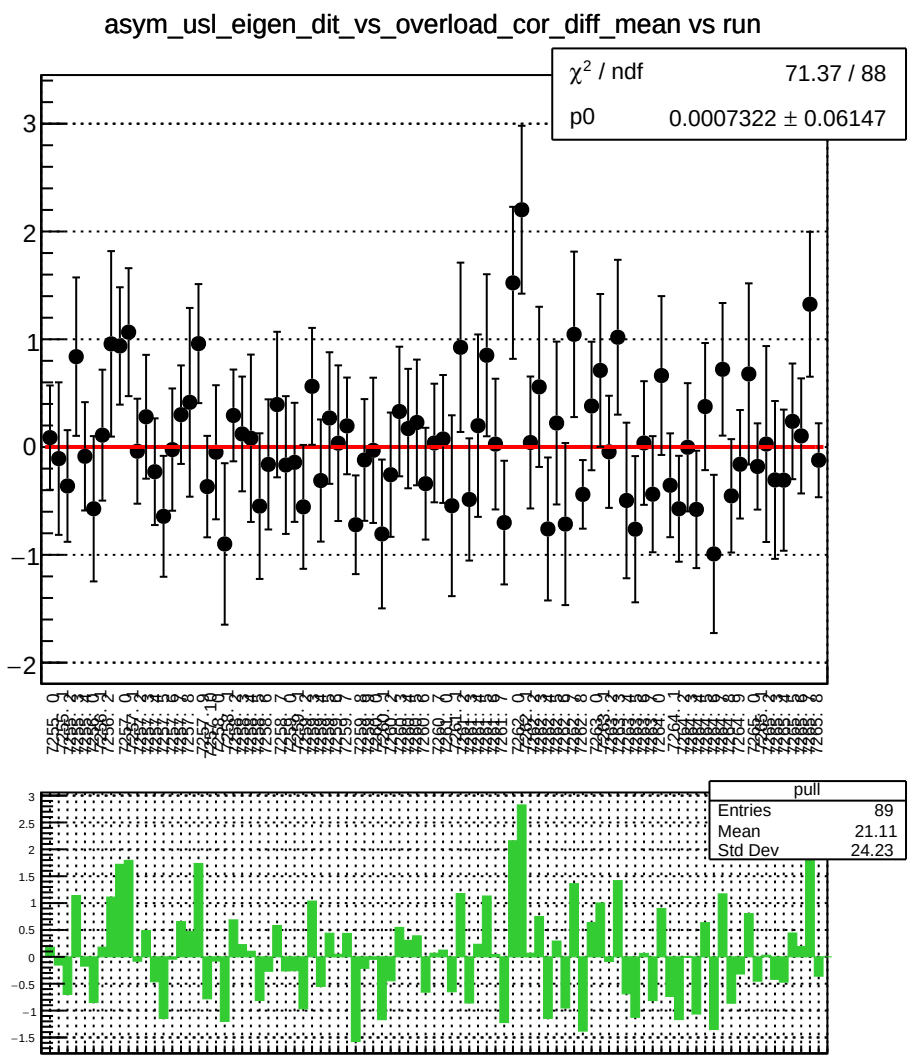

pull1D
Entries 89
Mean 0.0204
Std Dev 0.9504

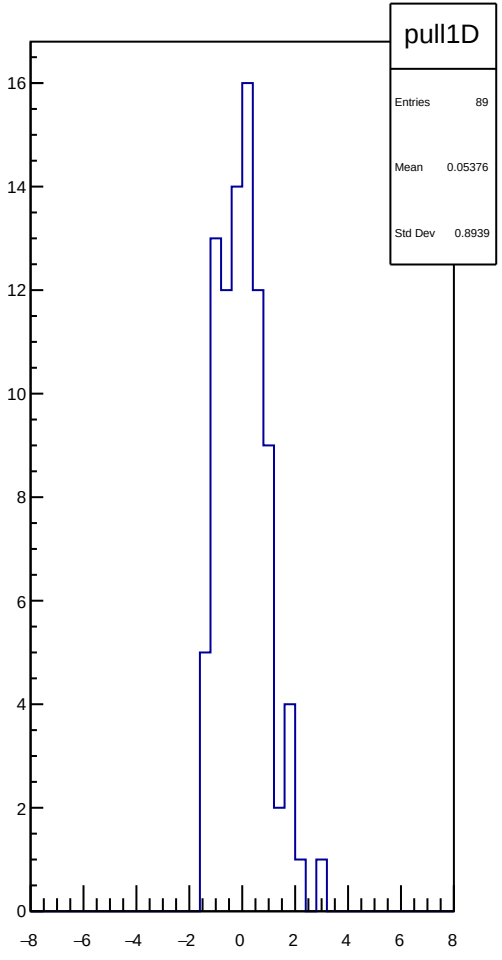

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.22e+05 / 88
p0 36.91 ± 0.02943
80
70
60
50
40
30
20

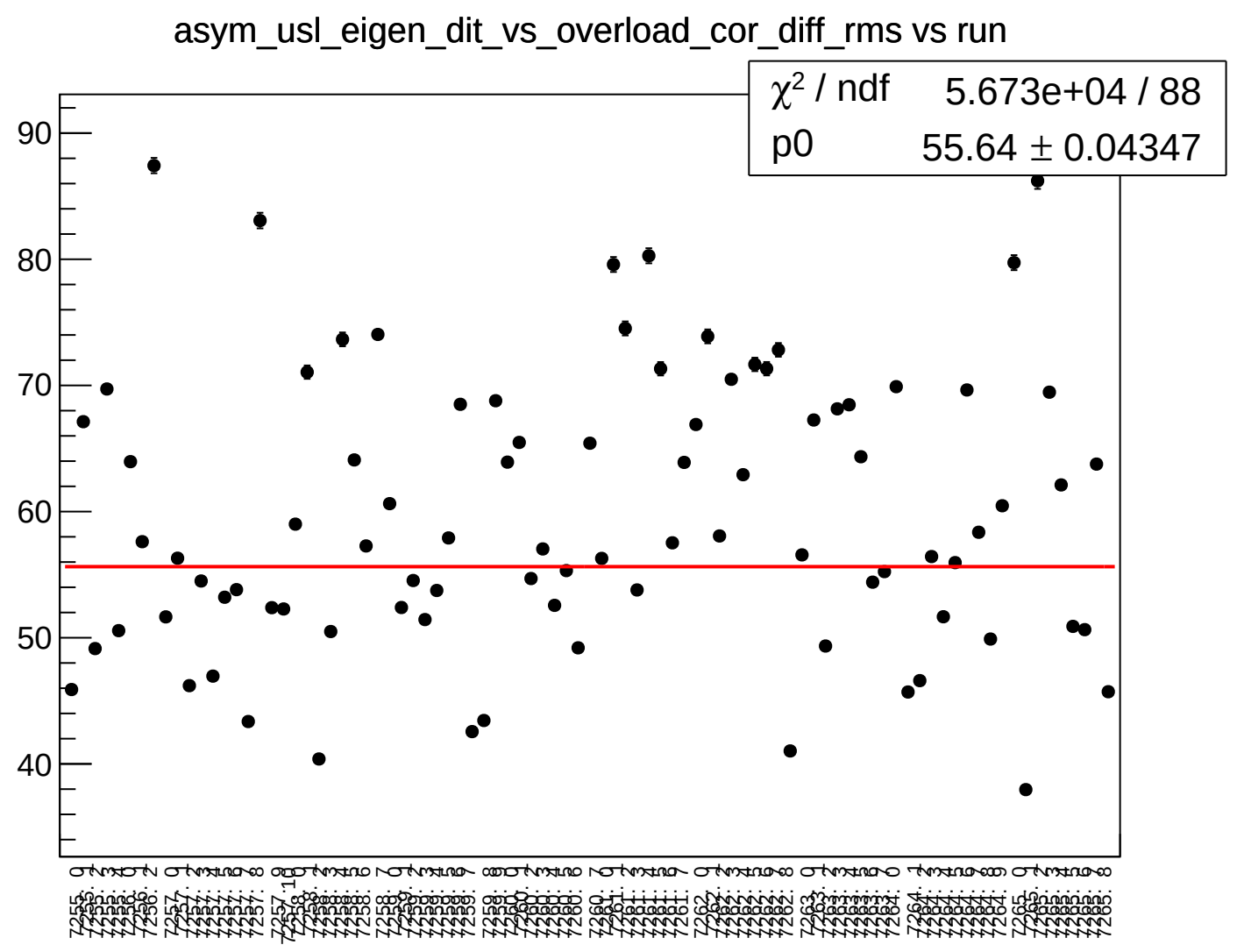

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.43 / 88
p0 −0.01035 ± 0.04162
pull
Entries 89
Mean −214.3
Std Dev 0

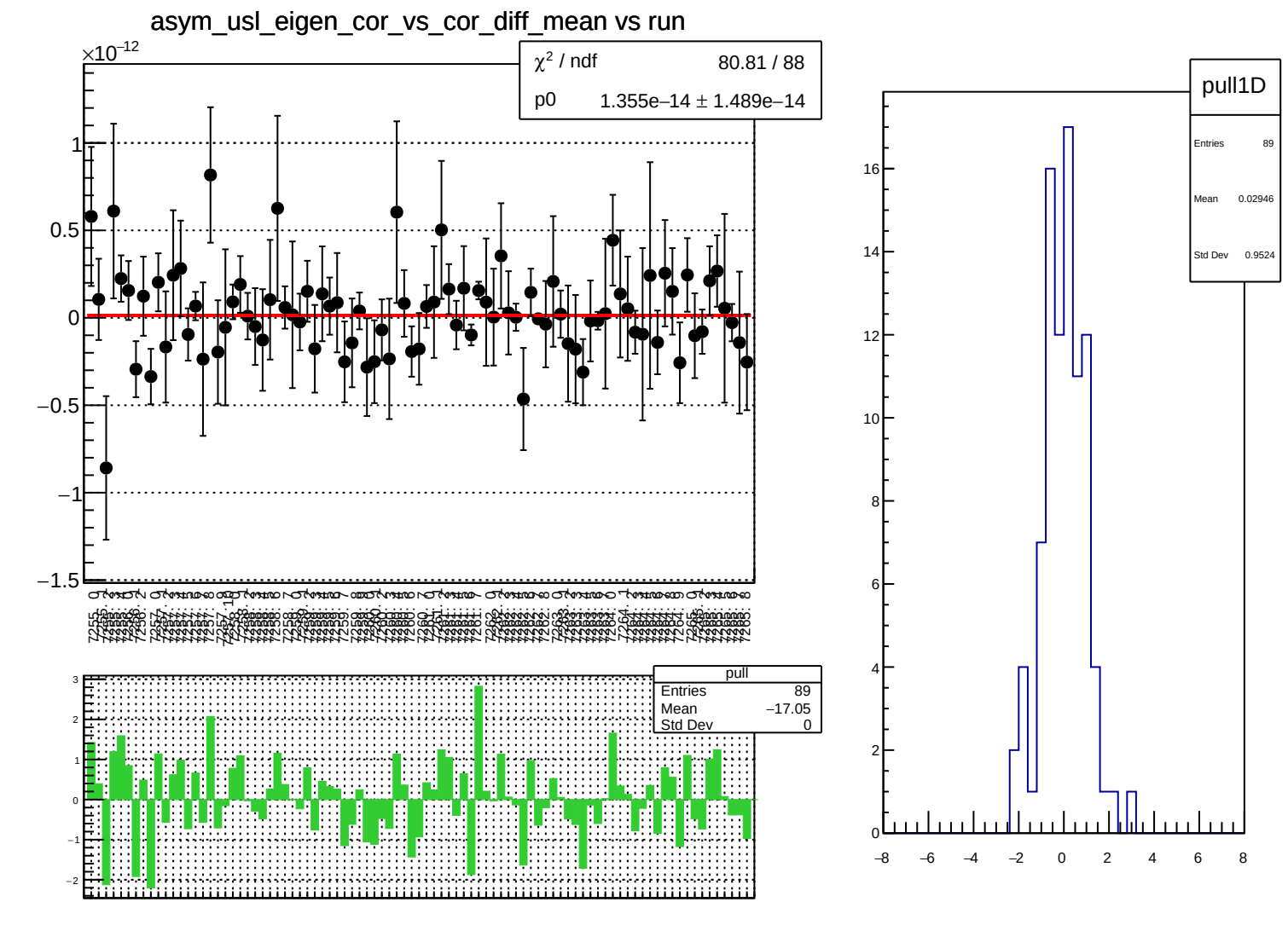

pull1D
Entries 89
Mean 0.0204
Std Dev 0.9504

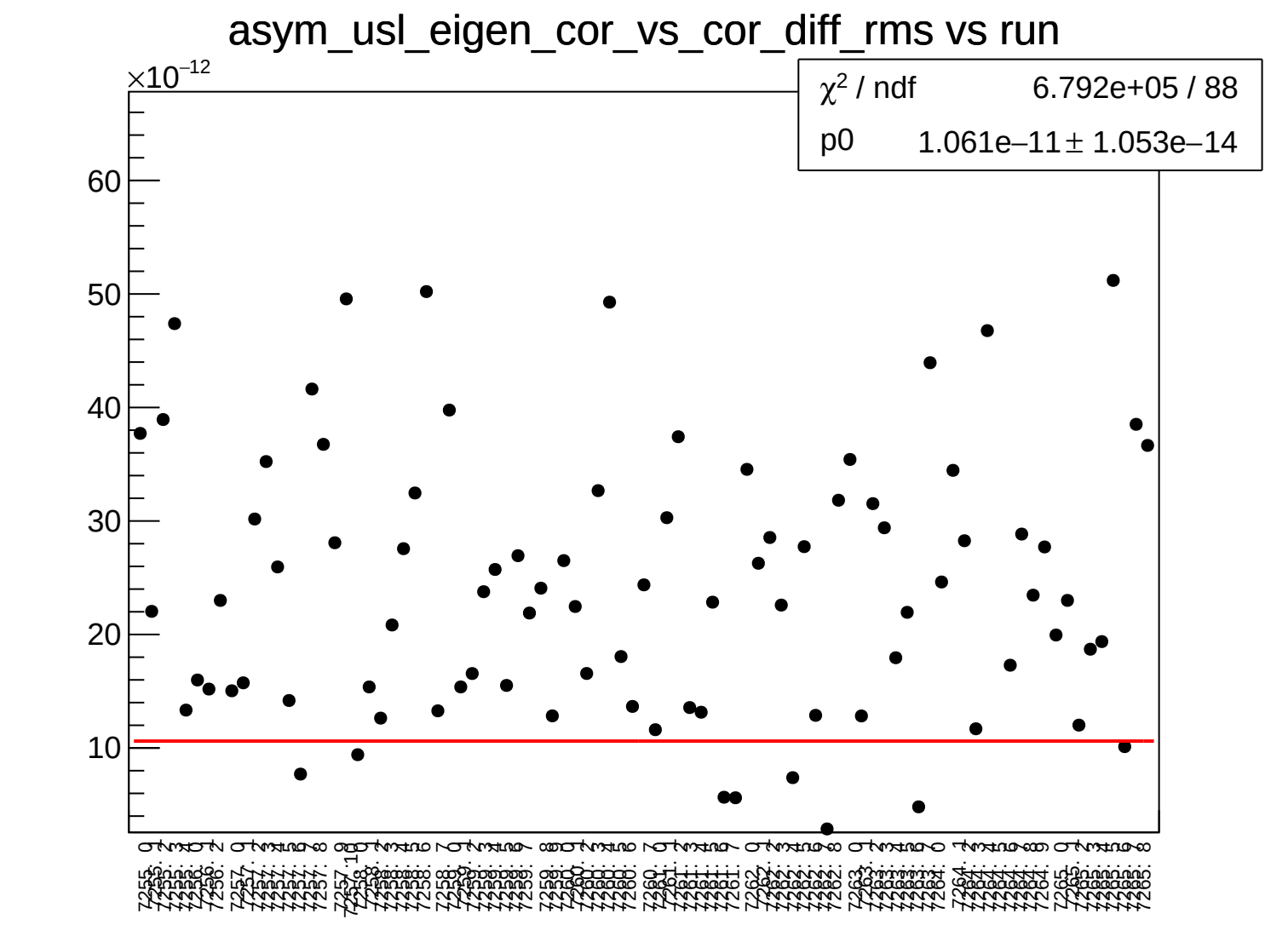

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.22e+05 / 88
p0 36.91 ± 0.02943
80
70
60
50
40
30
20

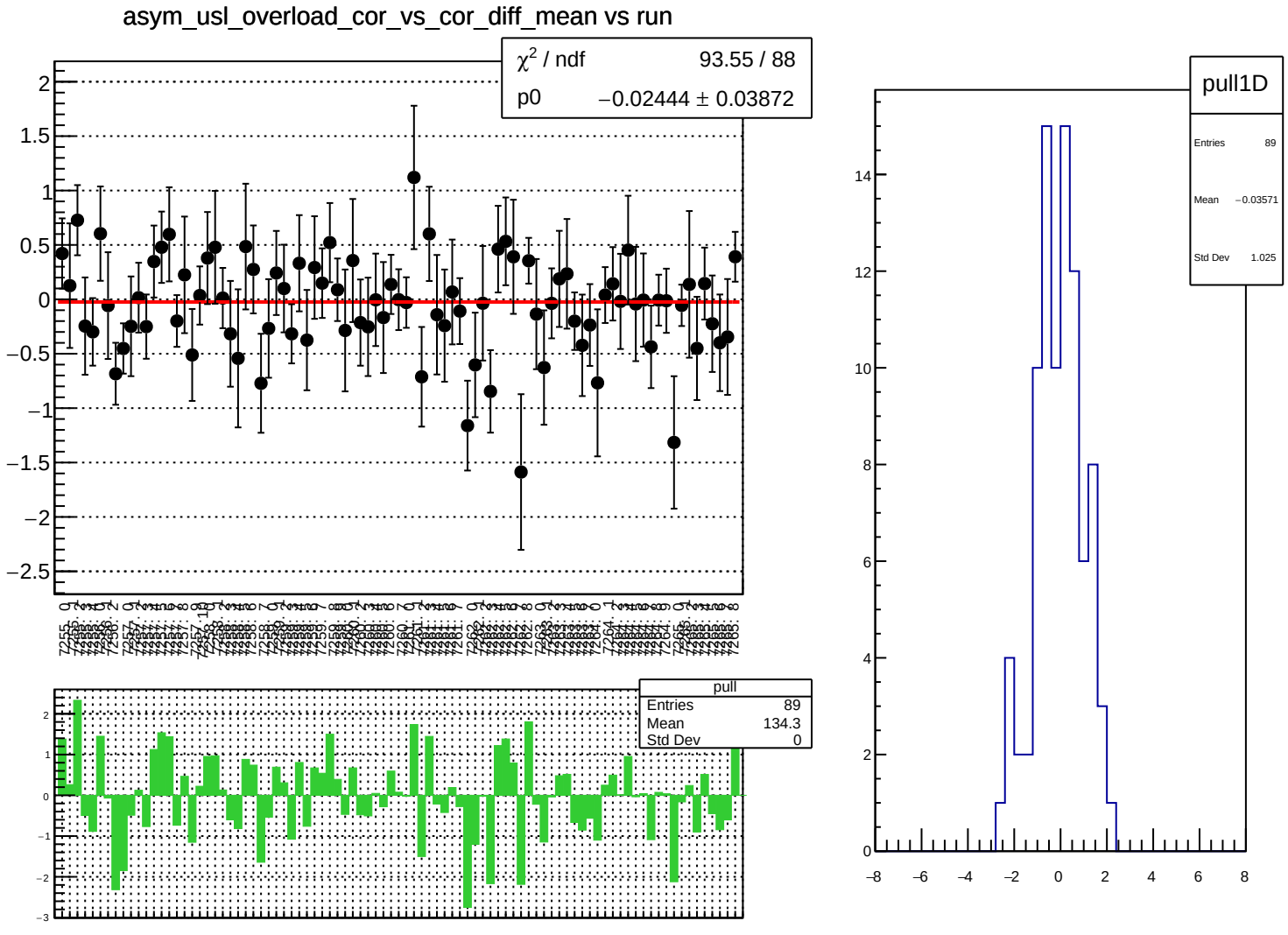

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 71.37 / 88
p0 0.0007322 ± 0.06147
pull
Entries 89
Mean 21.11
Std Dev 24.23

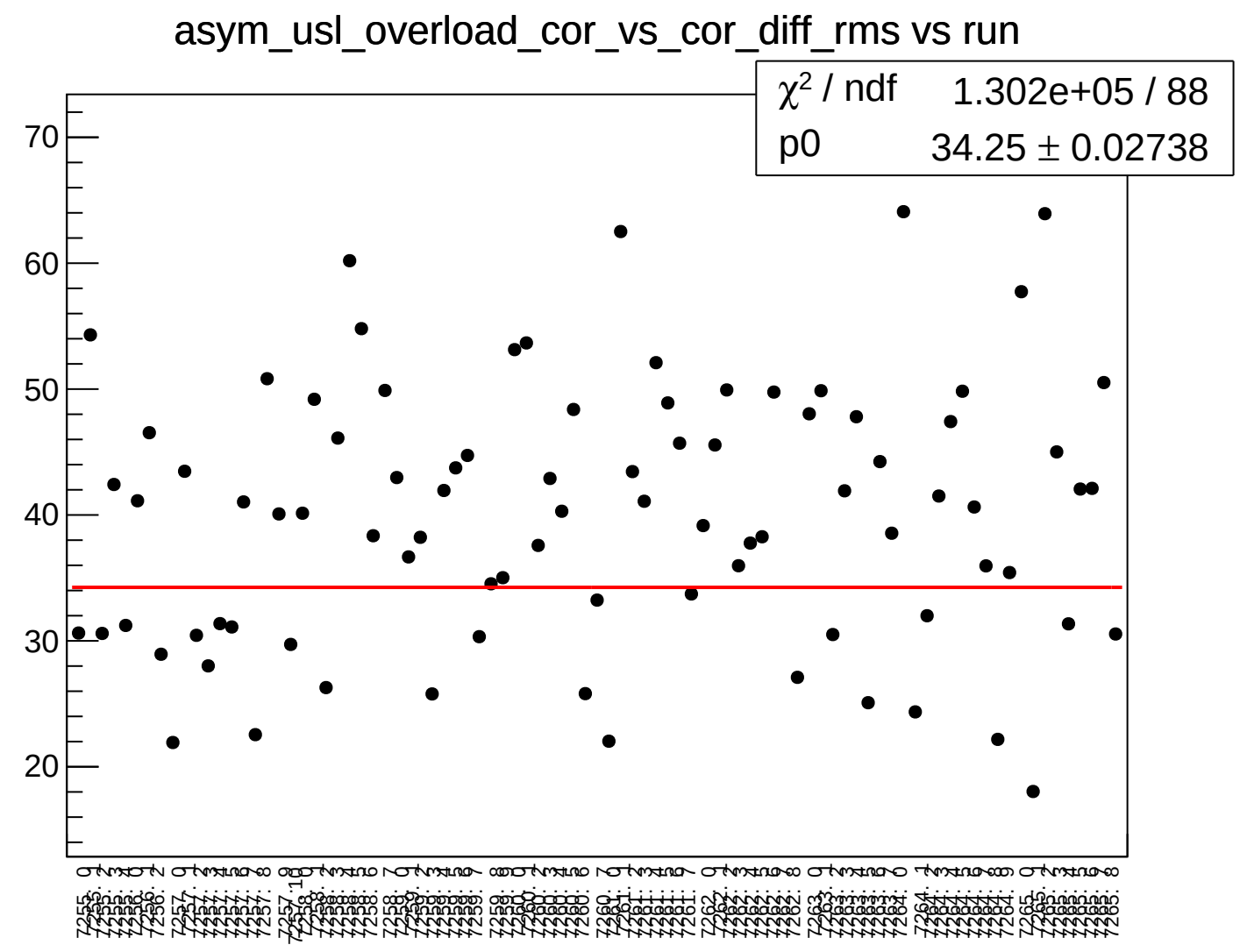

pull1D
Entries 89
Mean 0.05376
Std Dev 0.8939

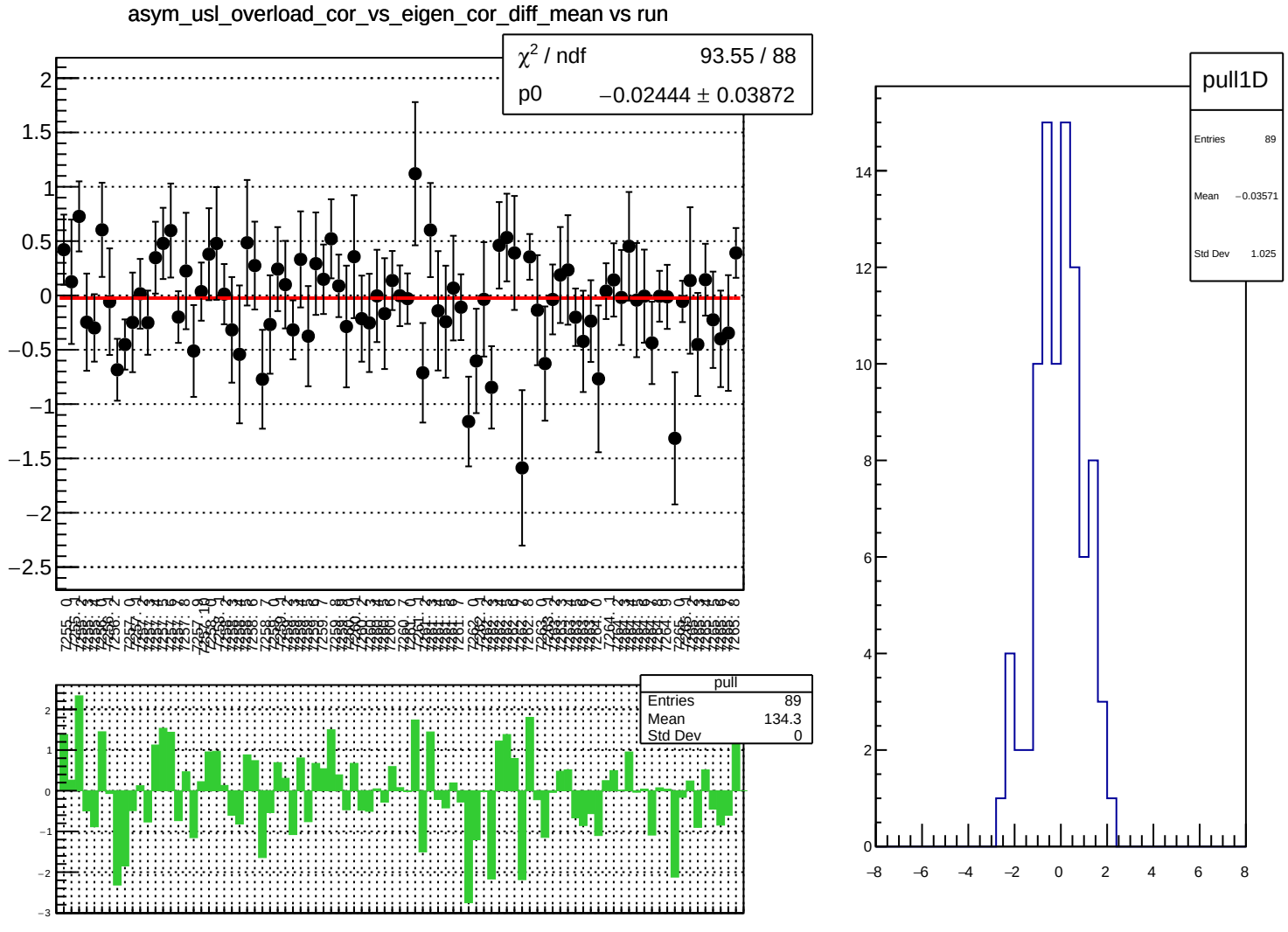

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.673e+04 / 88
p0 55.64 ± 0.04347
90
80
70
60
50
40

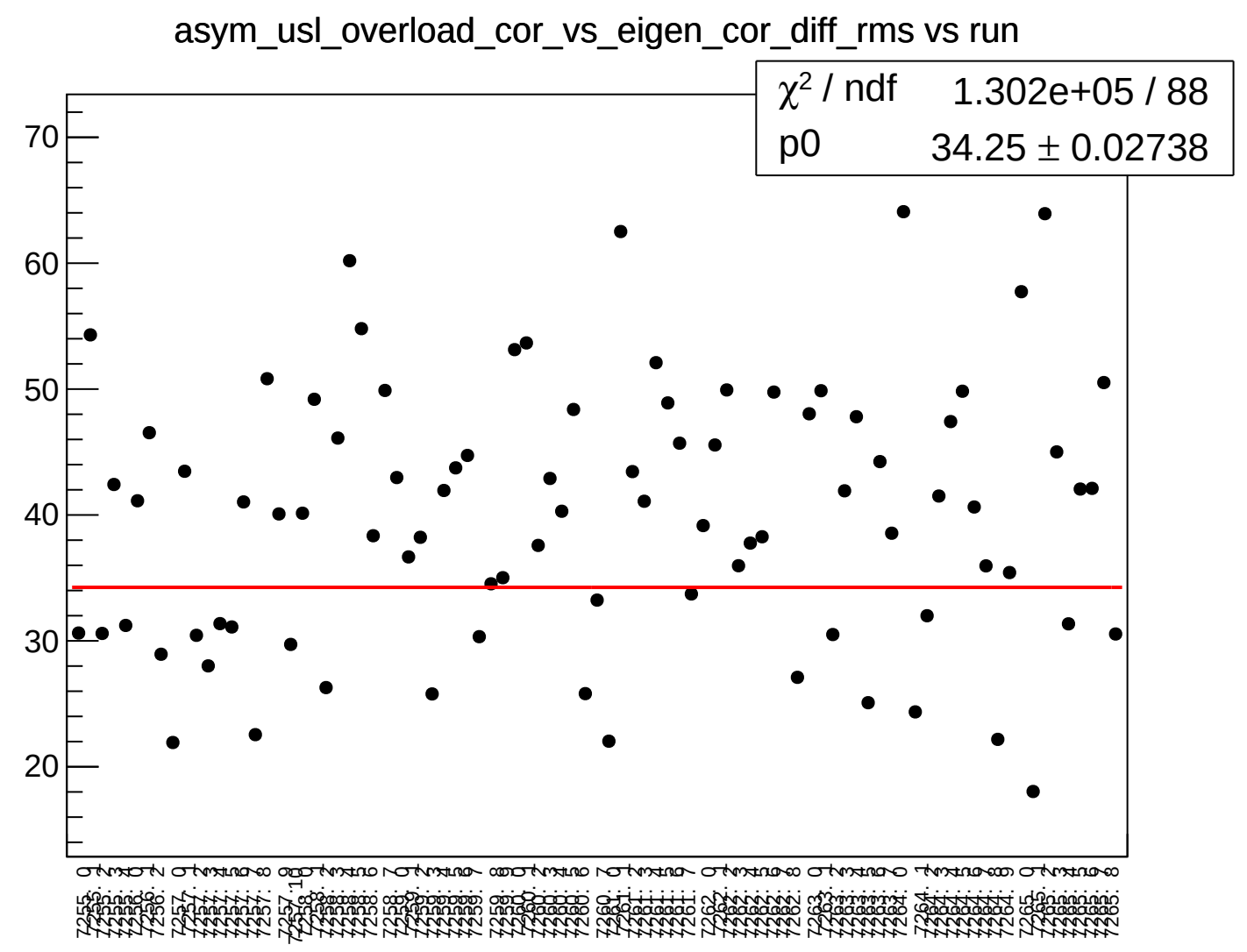

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.81 / 88
p0 1.355e−14 ± 1.489e−14
pull
Entries 89
Mean −17.05
Std Dev 0
pull1D
Entries 89
Mean 0.02946
Std Dev 0.9524

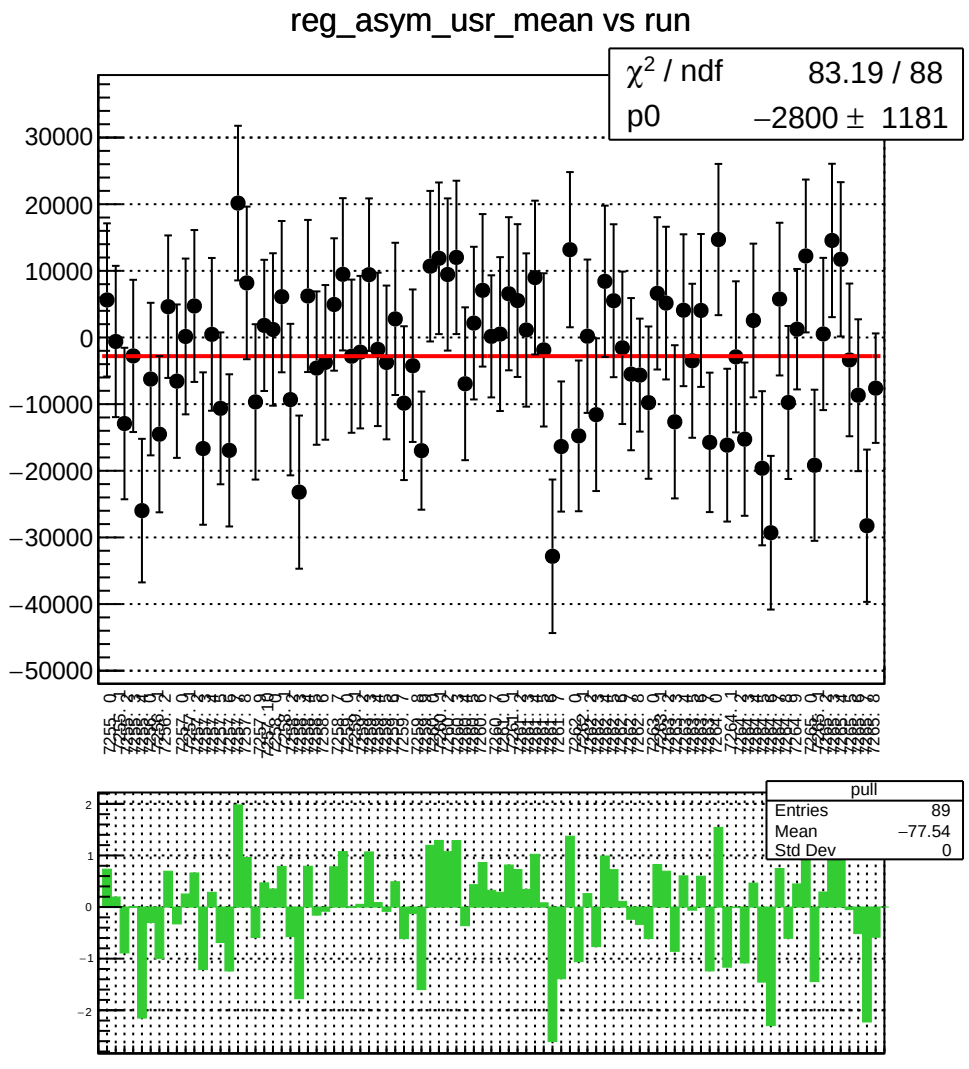

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.792e+05 / 88
p0 1.061e−11 ± 1.053e−14
60
50
40
30
20
10

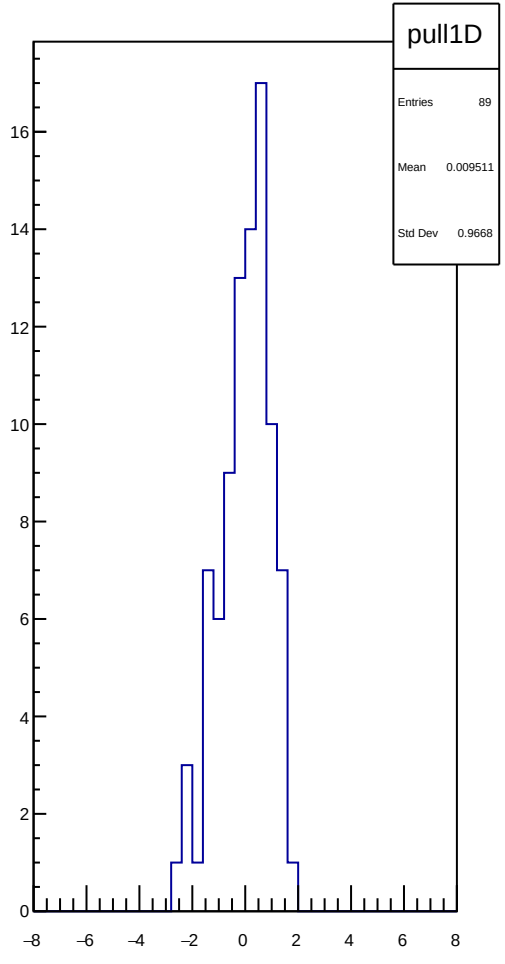

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 93.55 / 88
p0 −0.02444 ± 0.03872
pull
Entries 89
Mean 134.3
Std Dev 0
pull1D
Entries 89
Mean −0.03571
Std Dev 1.025

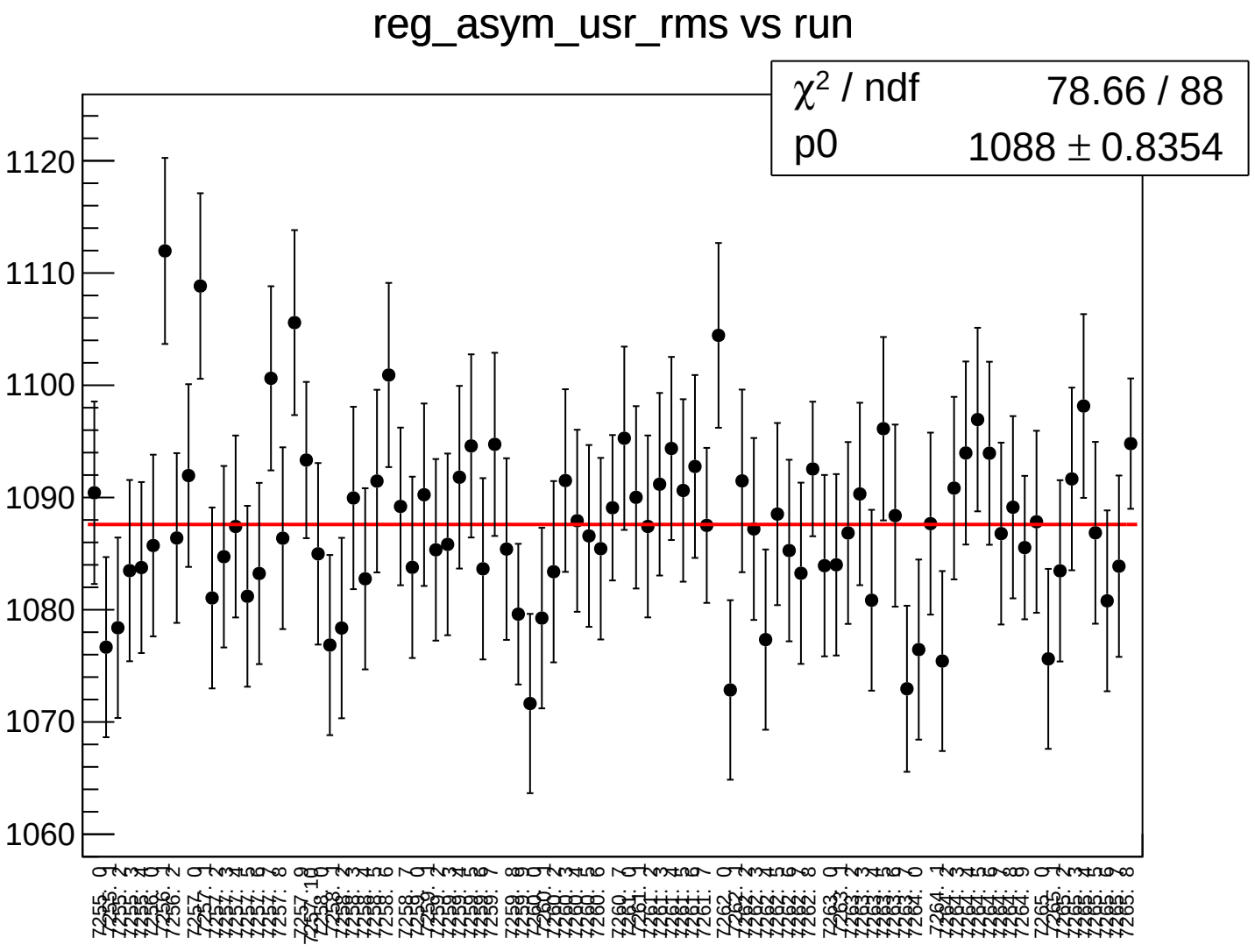

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.302e+05 / 88
p0 34.25 ± 0.02738
70
60
50
40
30
20

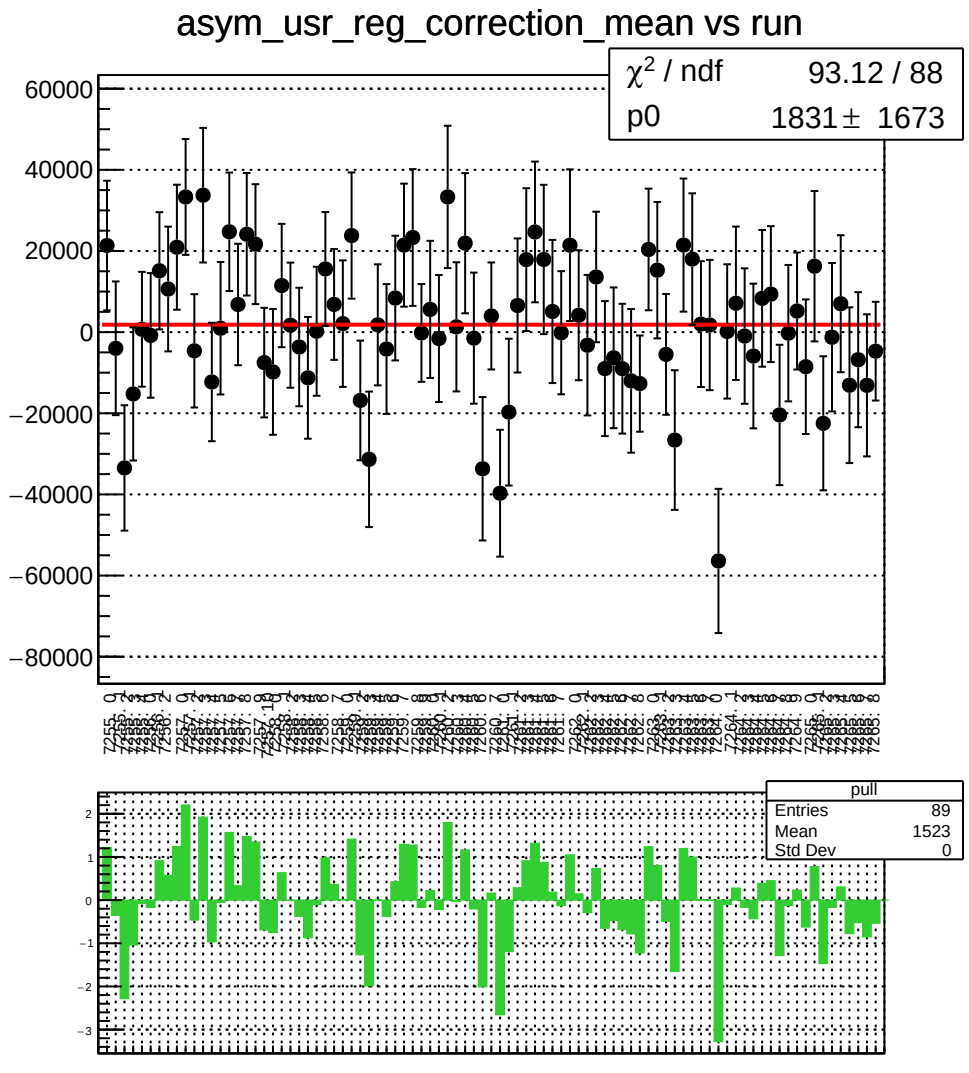

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.55 / 88
p0 −0.02444 ± 0.03872
pull
Entries 89
Mean 134.3
Std Dev 0
pull1D
Entries 89
Mean −0.03571
Std Dev 1.025

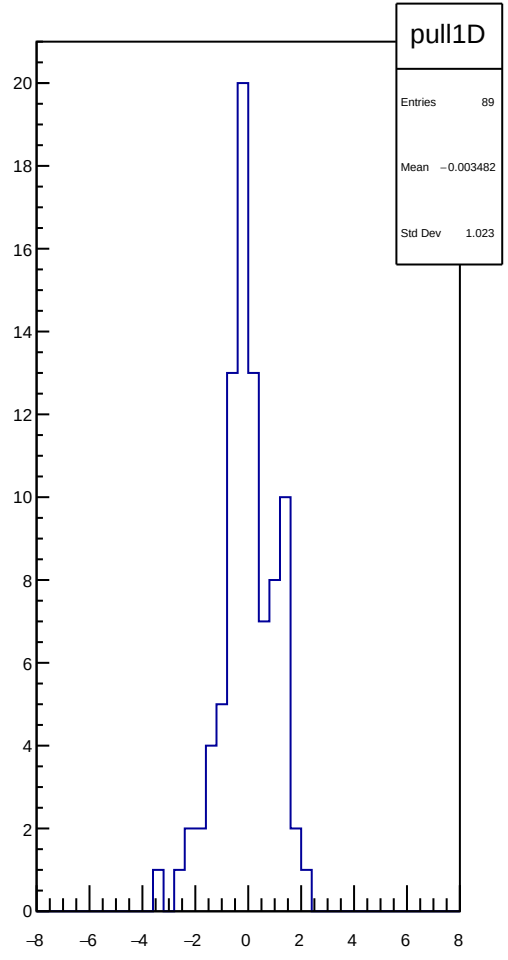

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.302e+05 / 88
p0 34.25 ± 0.02738
70
60
50
40
30
20

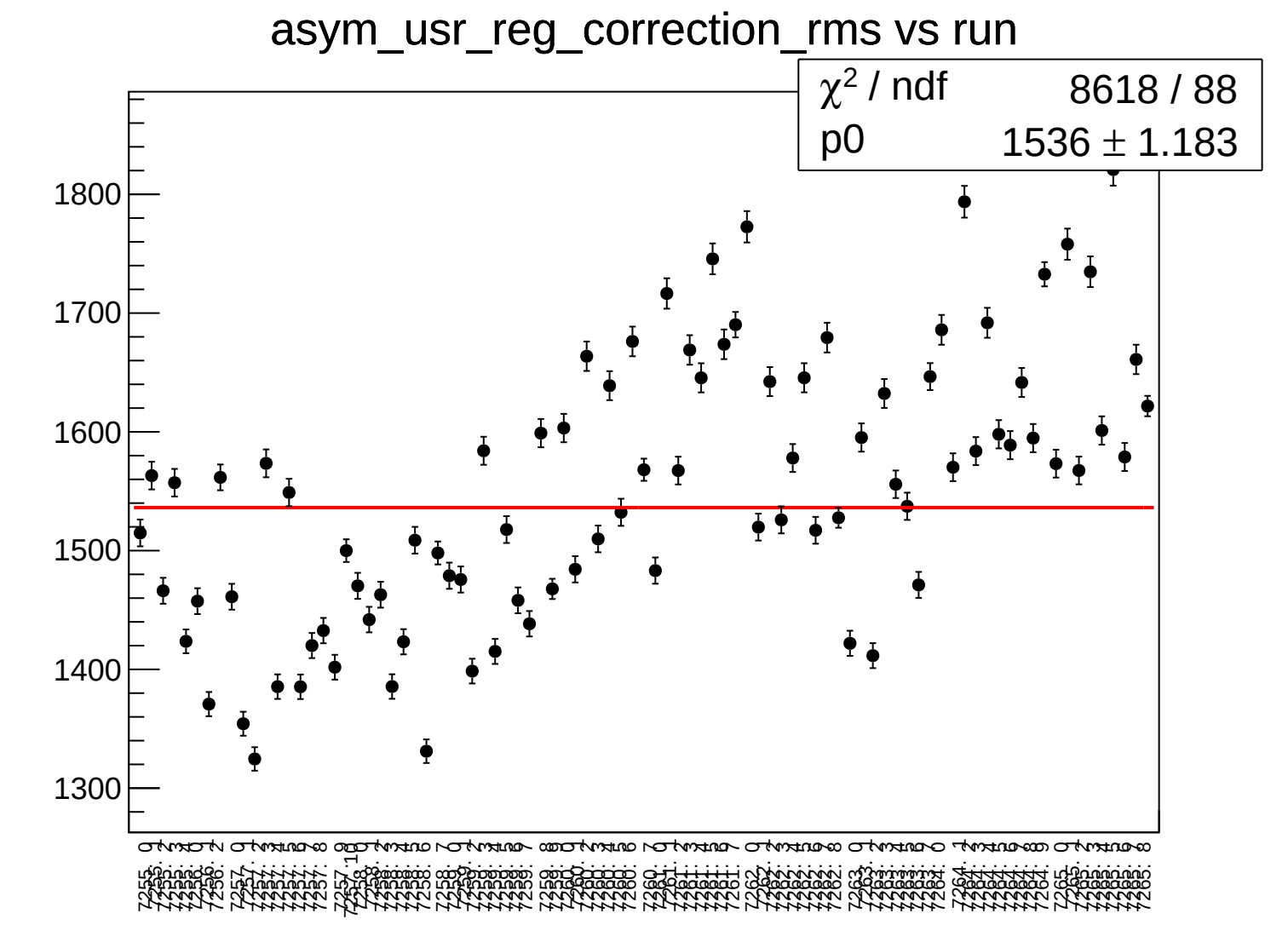

reg_asym_usr_mean vs run
χ^2 / ndf 83.19 / 88
p0 −2800 ± 1181
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 89
Mean −77.54
Std Dev 0
2
1
0
−1
−2

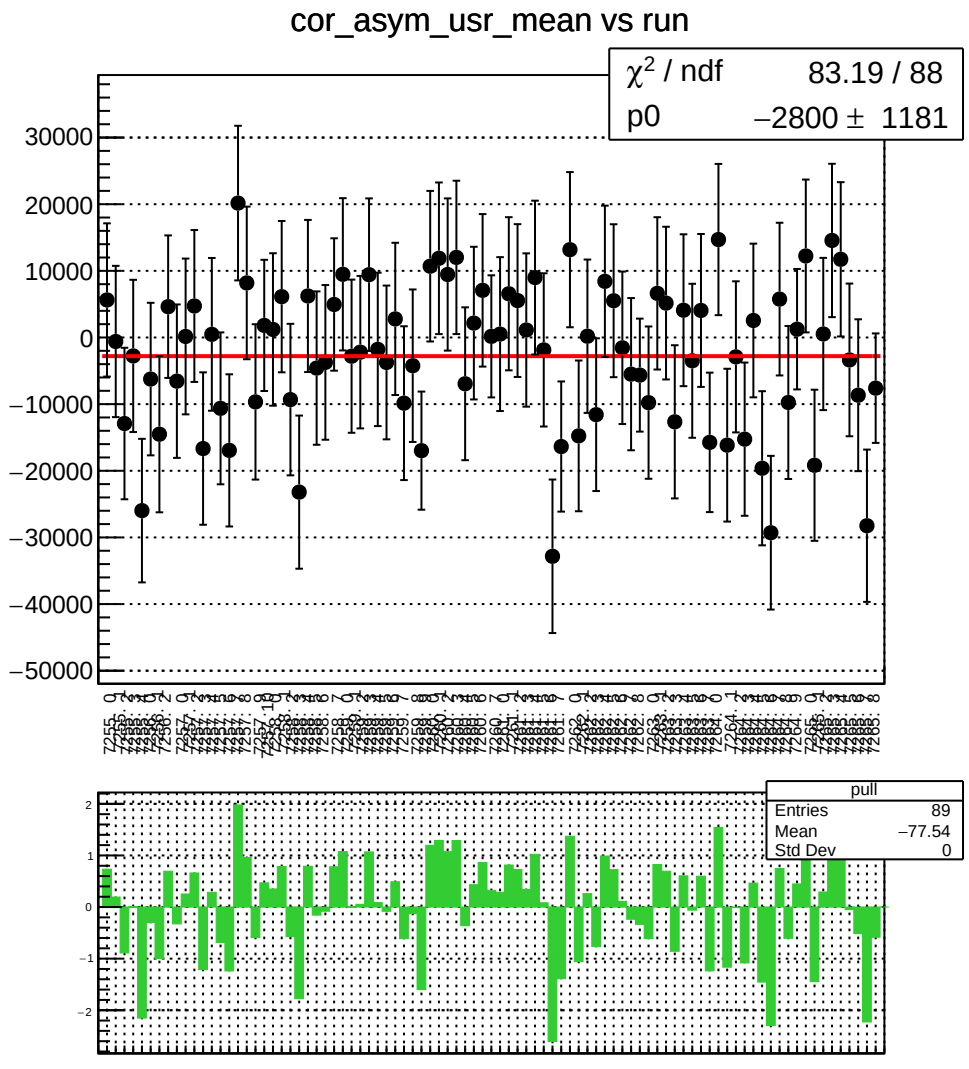

pull1D
Entries 89
Mean 0.009511
Std Dev 0.9668
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

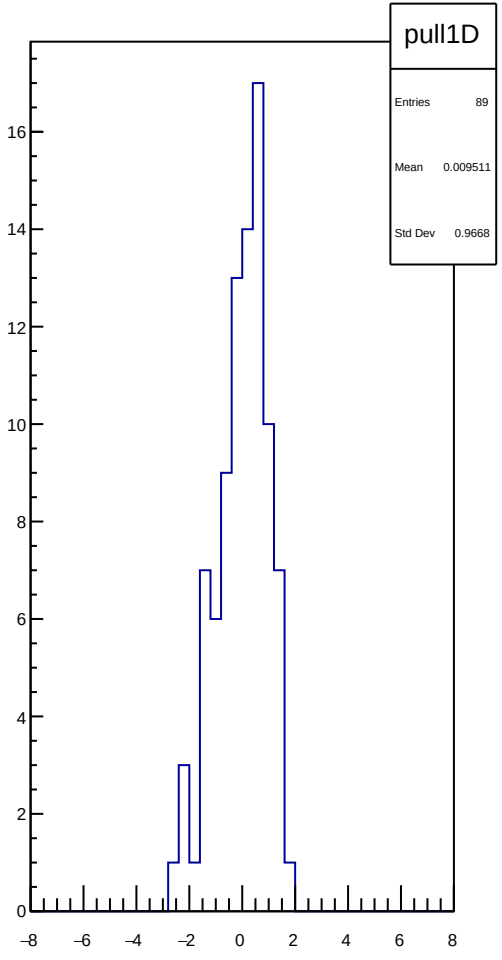

reg_asym_usr_rms vs run
χ² / ndf 78.66 / 88
p0 1088 ± 0.8354
1120
1110
1100
1090
1080
1070
1060

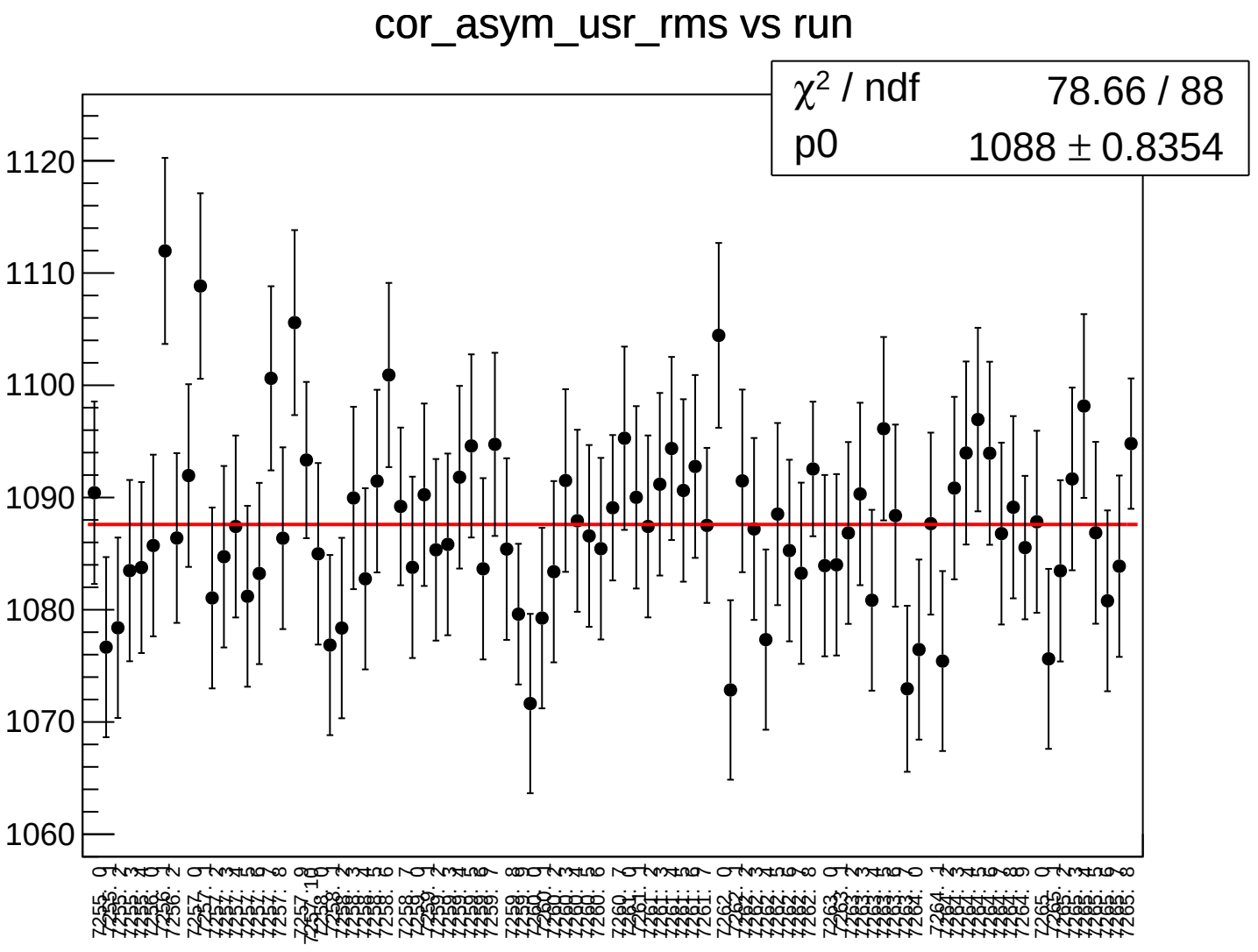

asym_usr_reg_correction_mean vs run
χ² / ndf 93.12 / 88
p0 1831 ± 1673
pull
Entries 89
Mean 1523
Std Dev 0

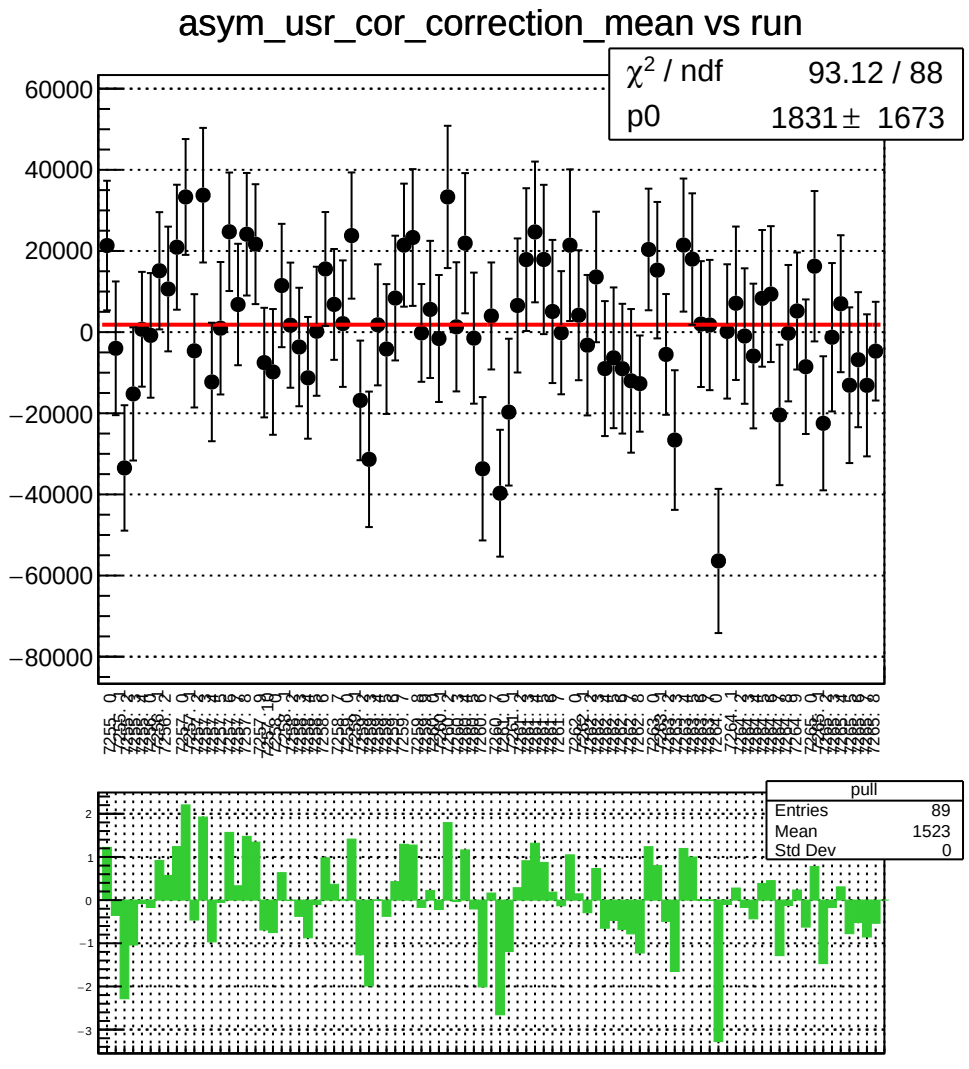

pull1D
Entries 89
Mean −0.003482
Std Dev 1.023

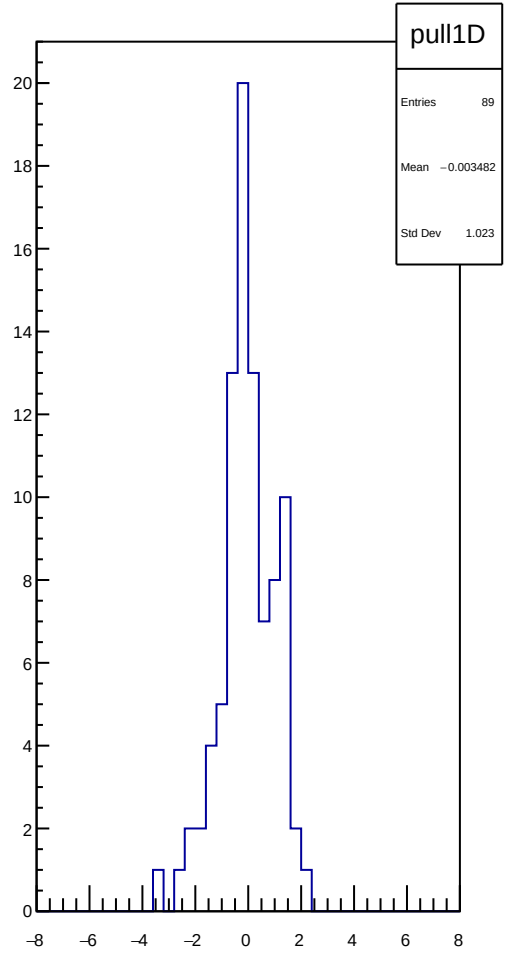

asym_usr_reg_correction_rms vs run
χ² / ndf 8618 / 88
p0 1536 ± 1.183
1800
1700
1600
1500
1400
1300

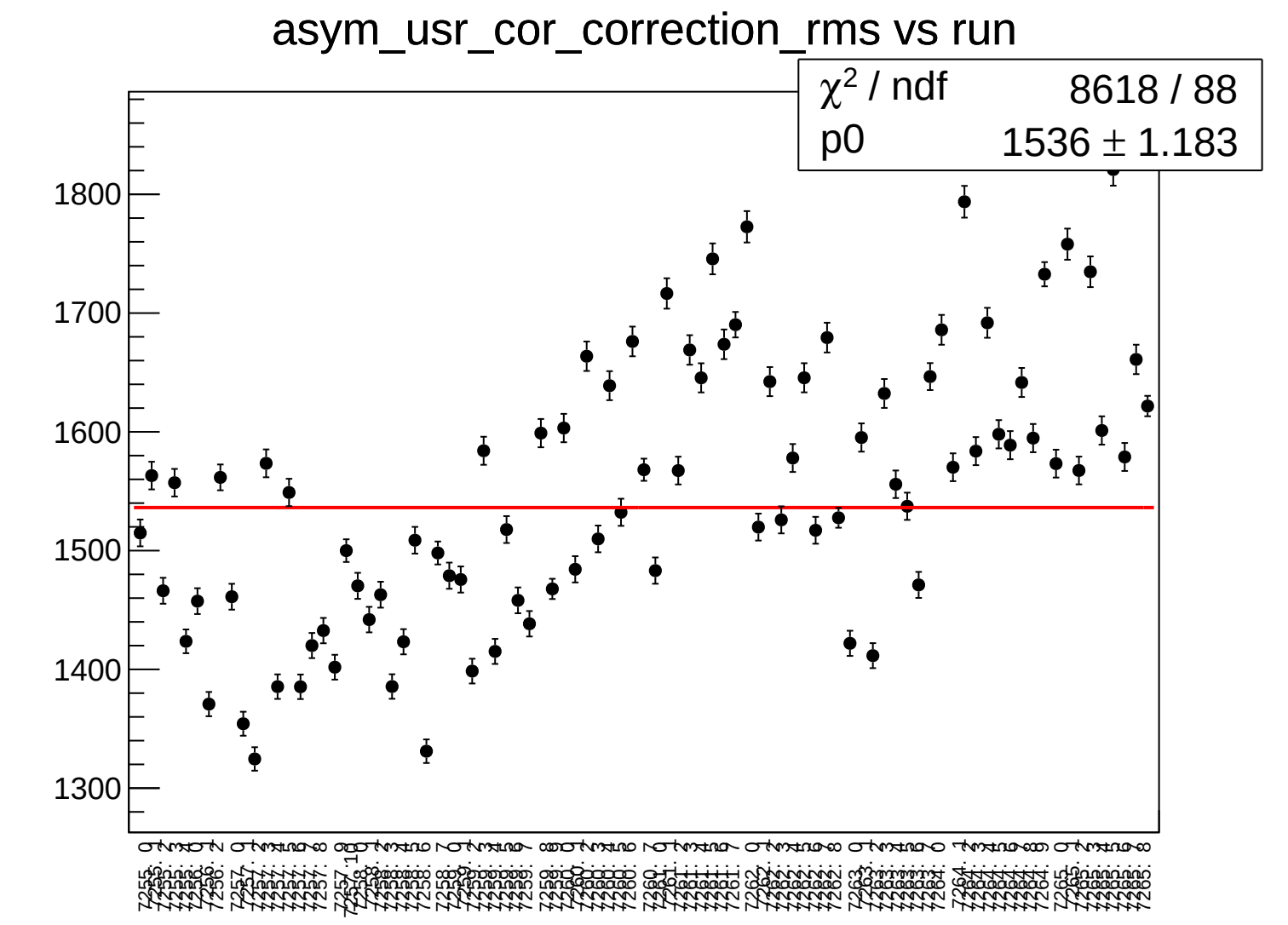

cor_asym_usr_mean vs run
χ² / ndf 83.19 / 88
p0 −2800 ± 1181
pull
Entries 89
Mean −77.54
Std Dev 0

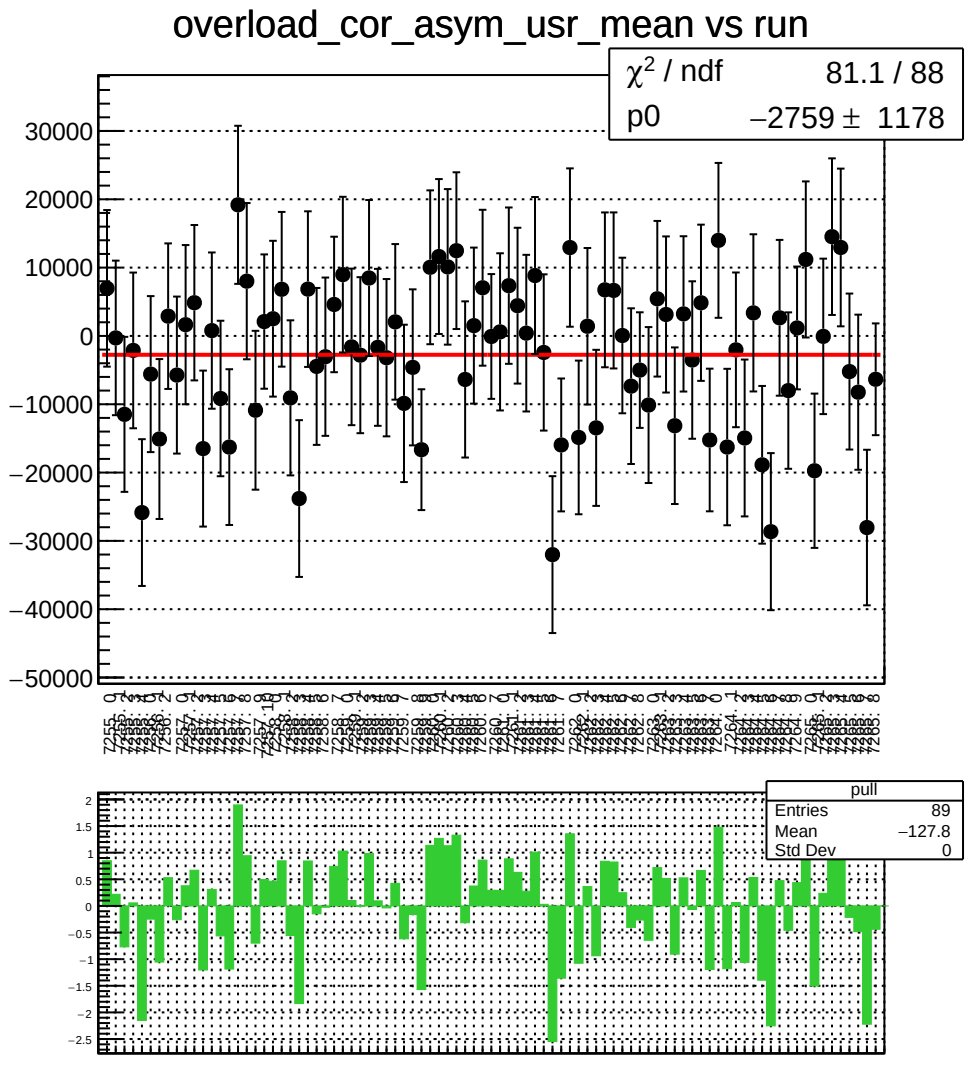

pull1D
Entries 89
Mean 0.009511
Std Dev 0.9668

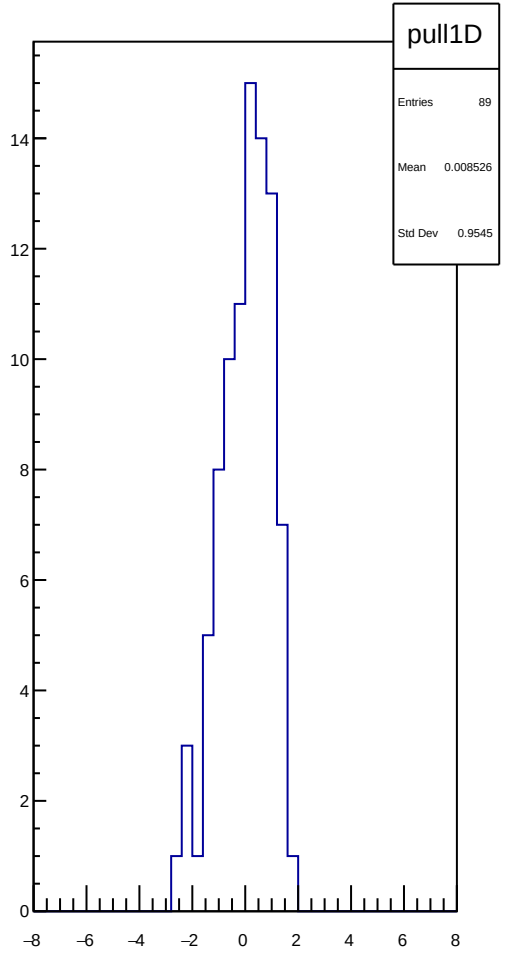

cor_asym_usr_rms vs run
χ² / ndf 78.66 / 88
p0 1088 ± 0.8354
1120
1110
1100
1090
1080
1070
1060

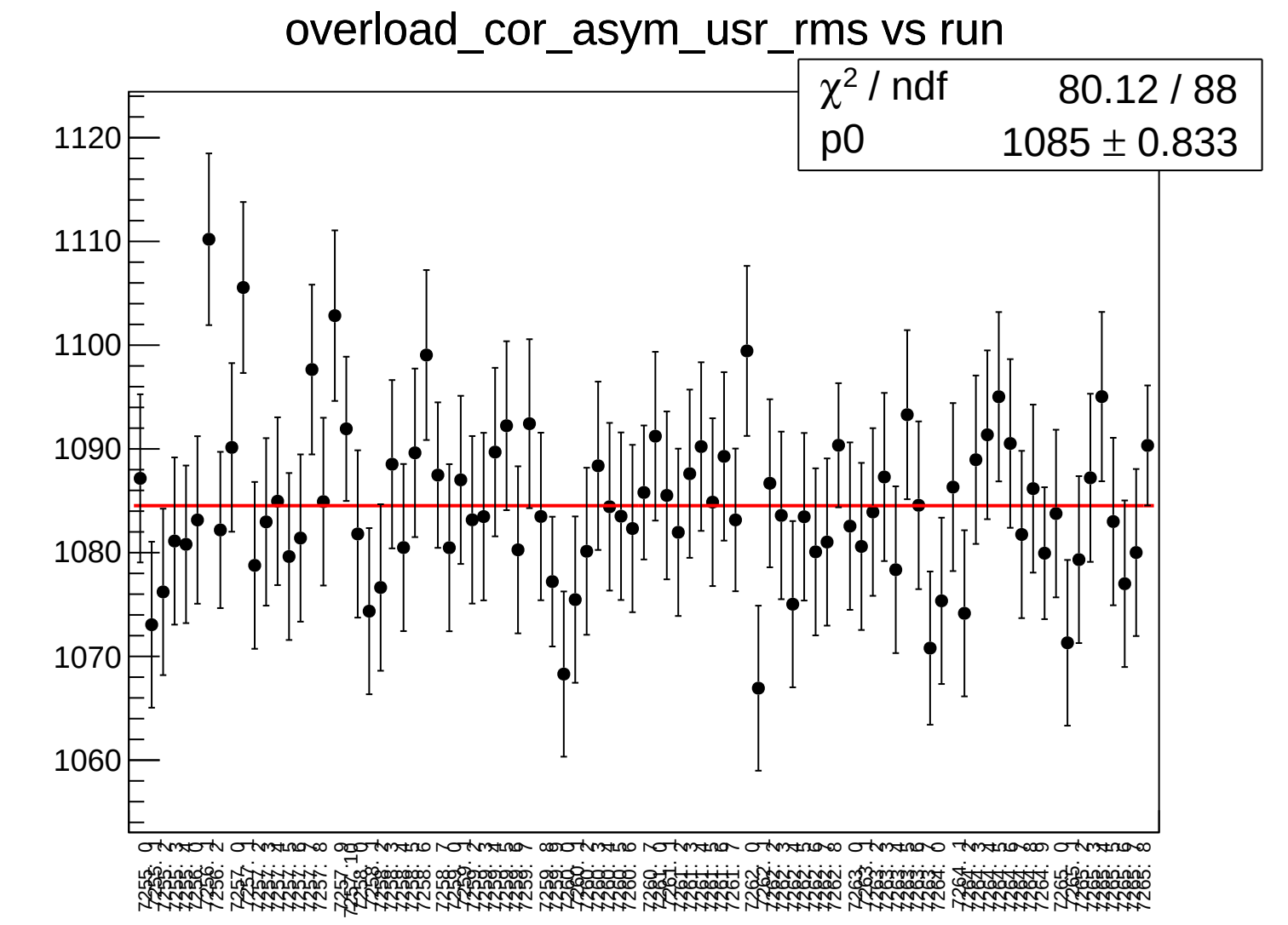

asym_usr_cor_correction_mean vs run
χ² / ndf 93.12 / 88
p0 1831 ± 1673
pull
Entries 89
Mean 1523
Std Dev 0

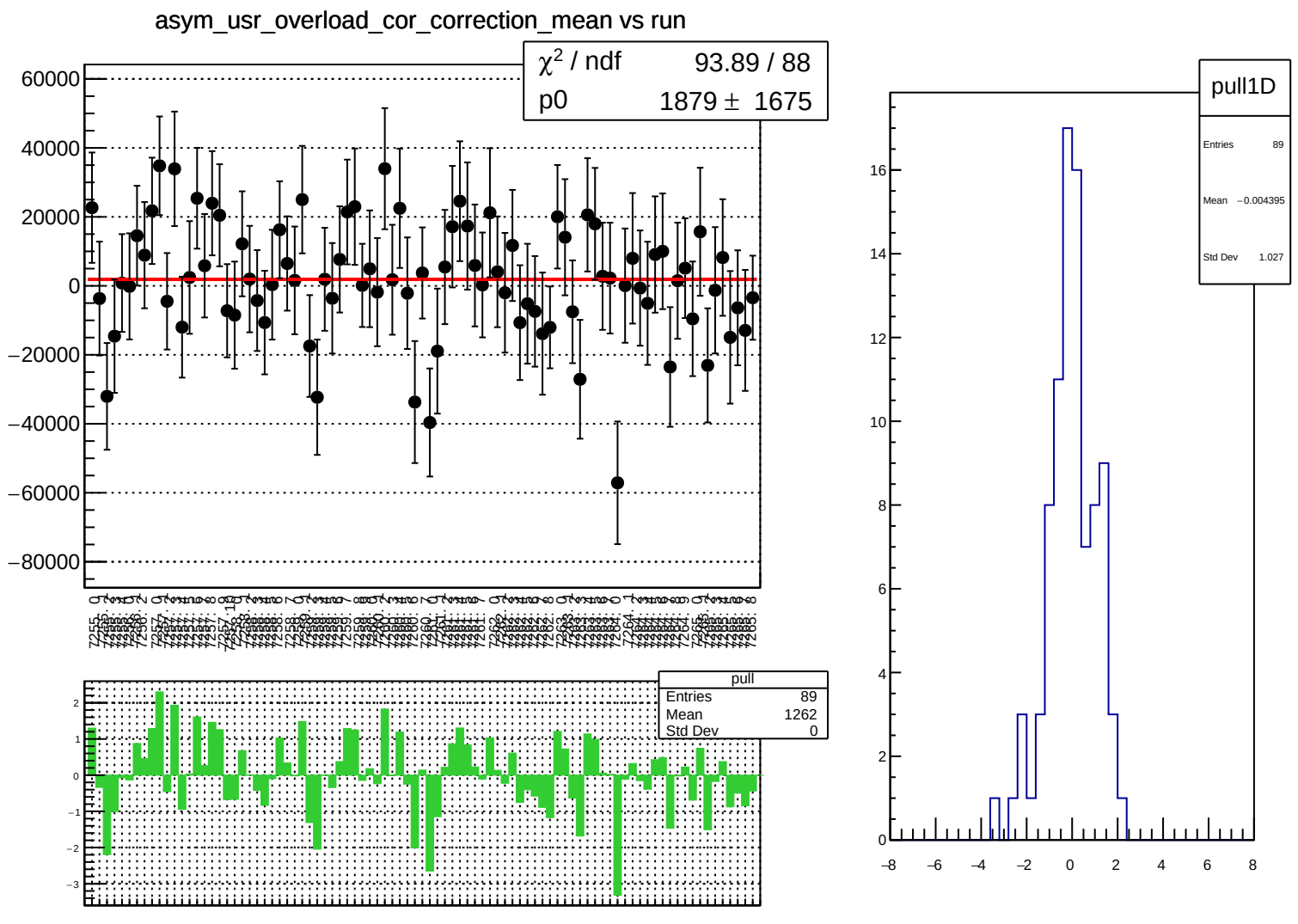

pull1D
Entries 89
Mean −0.003482
Std Dev 1.023

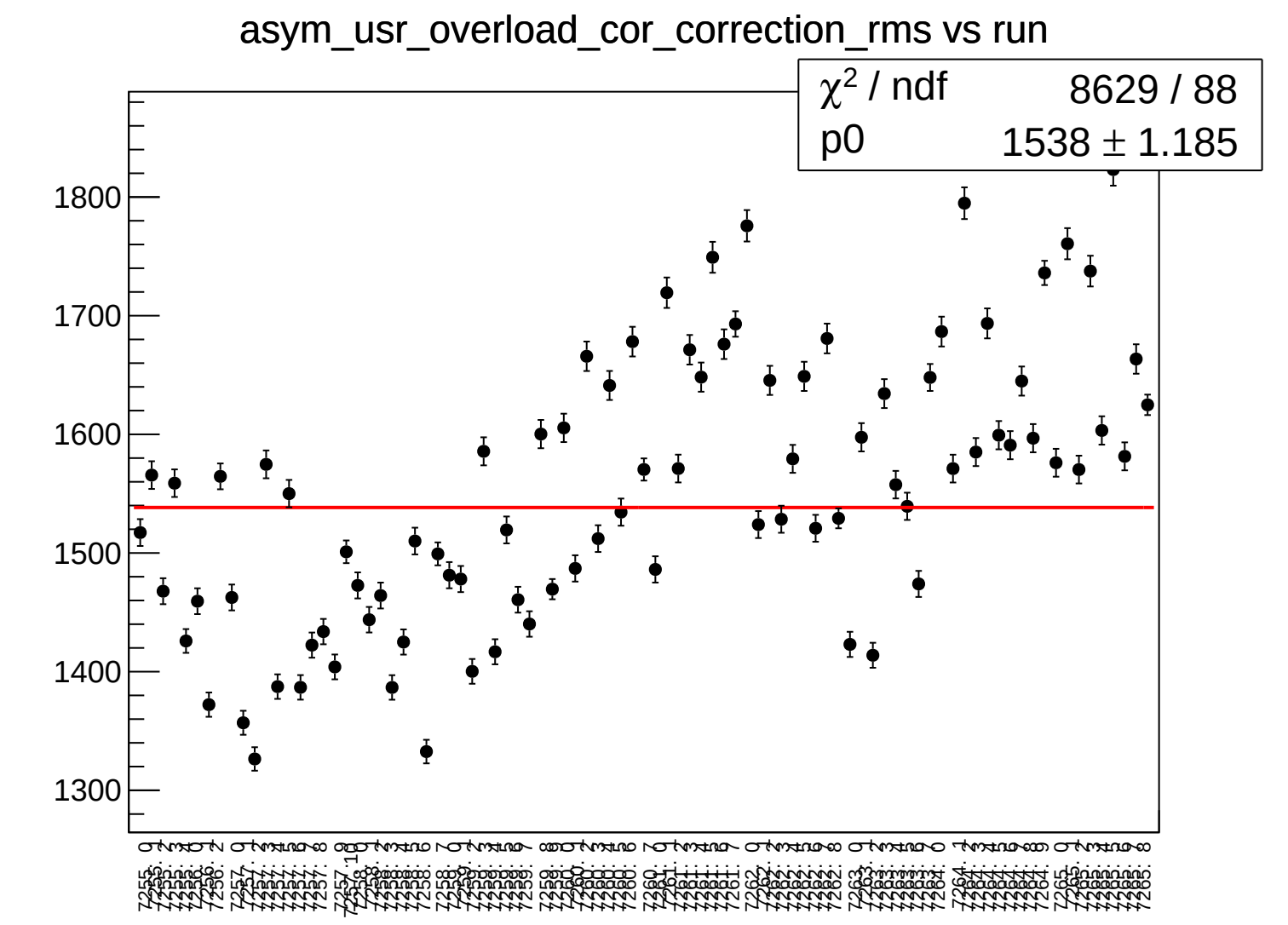

asym_usr_cor_correction_rms vs run
χ² / ndf 8618 / 88
p0 1536 ± 1.183
1800
1700
1600
1500
1400
1300

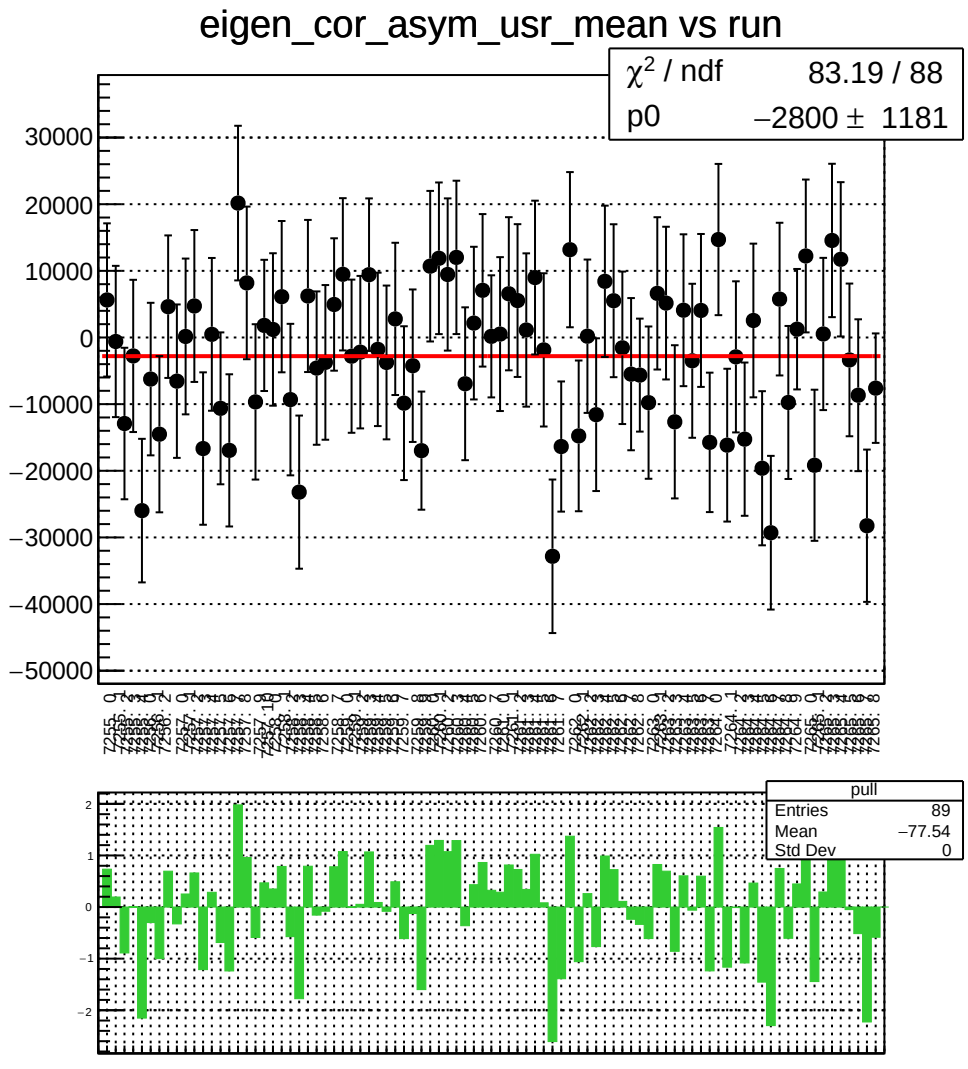

overload_cor_asym_usr_mean vs run
χ² / ndf 81.1 / 88
p0 −2759 ± 1178
pull
Entries 89
Mean −127.8
Std Dev 0

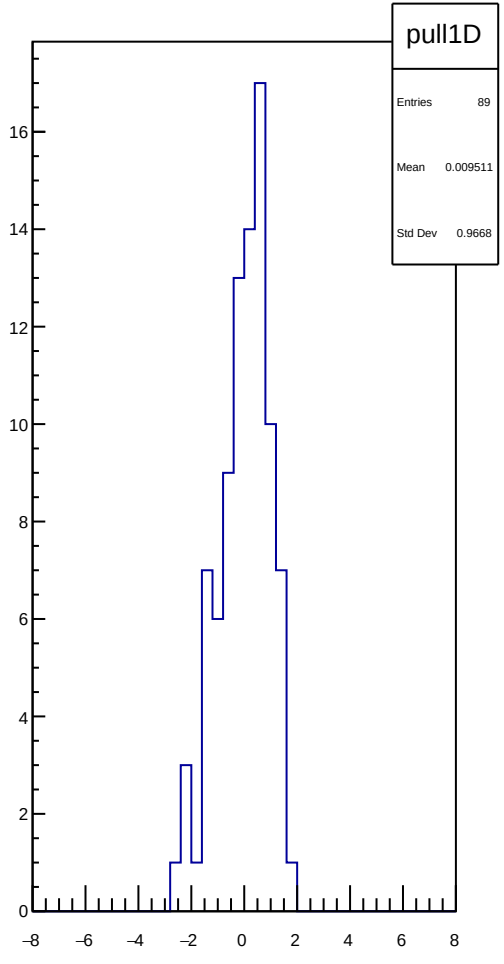

pull1D
Entries 89
Mean 0.008526
Std Dev 0.9545

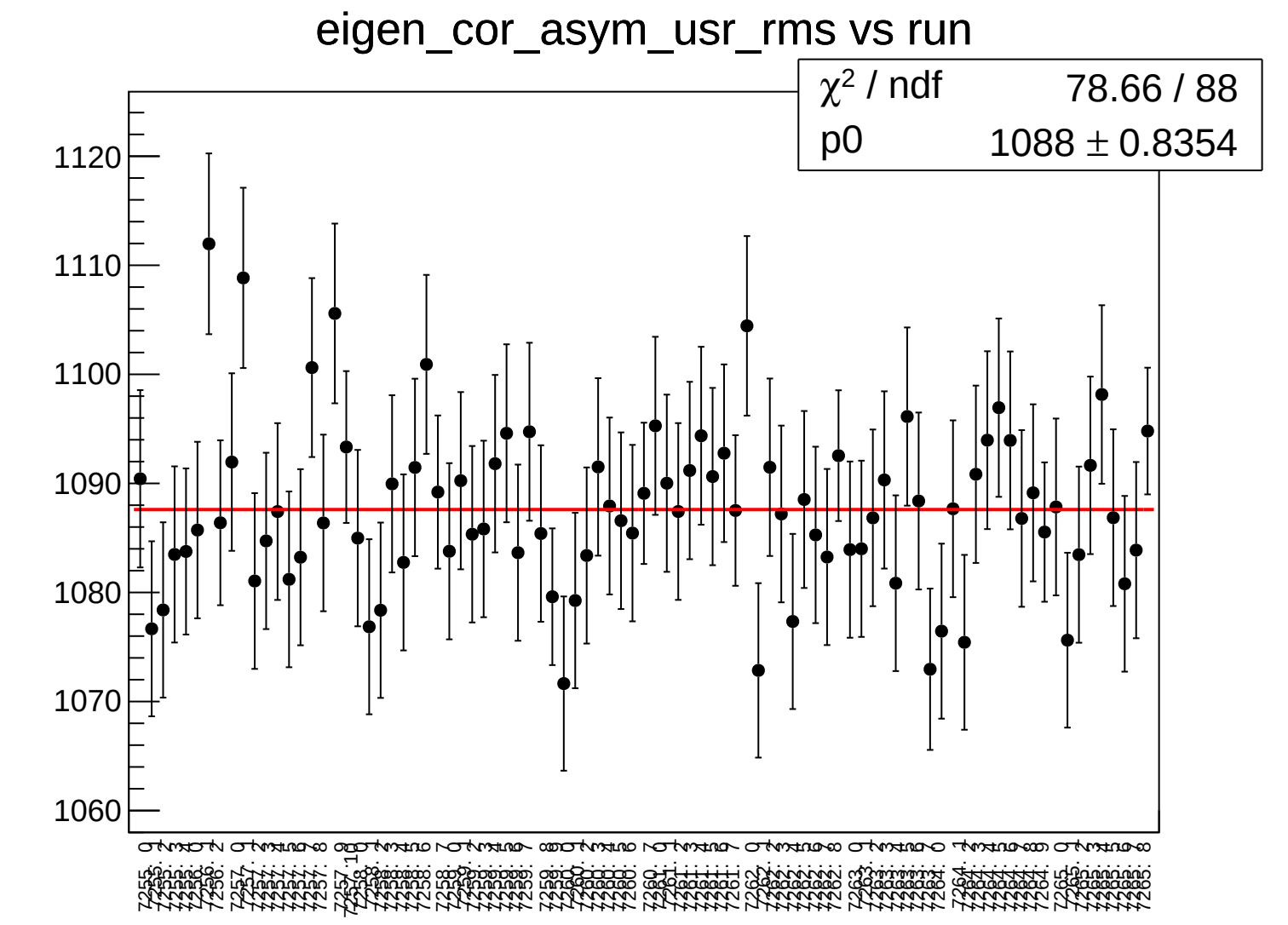

overload_cor_asym_usr_rms vs run
χ² / ndf 80.12 / 88
p0 1085 ± 0.833
1120
1110
1100
1090
1080
1070
1060

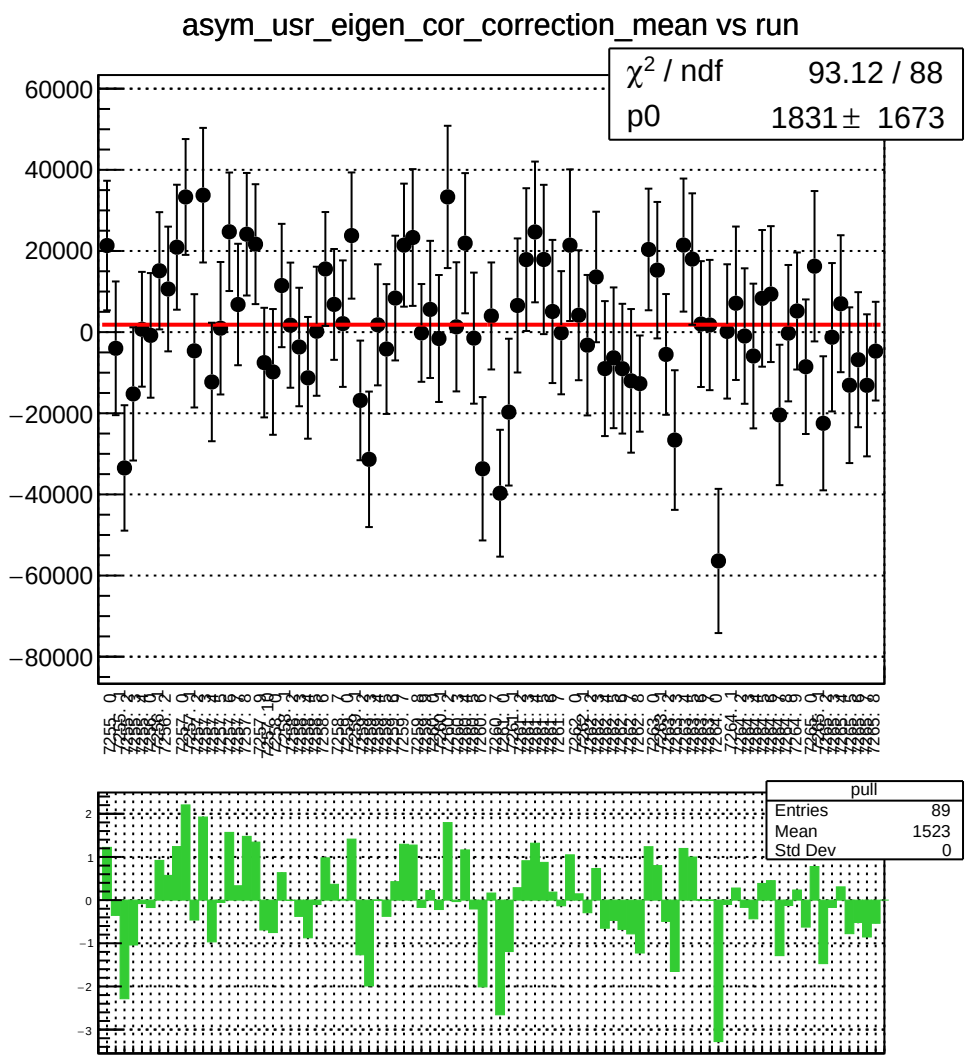

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 93.89 / 88
p0 1879 ± 1675
pull
Entries 89
Mean 1262
Std Dev 0
pull1D
Entries 89
Mean −0.004395
Std Dev 1.027

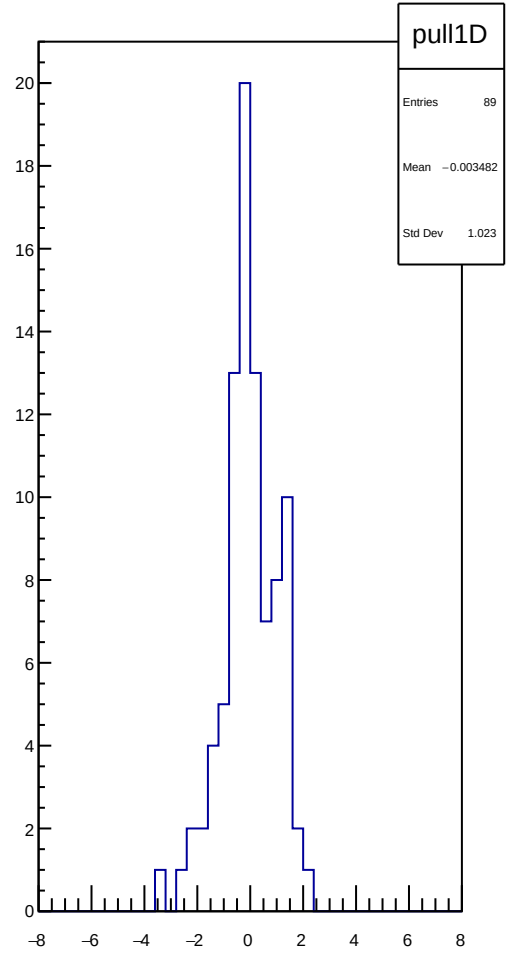

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 8629 / 88
p0 1538 ± 1.185
1800
1700
1600
1500
1400
1300

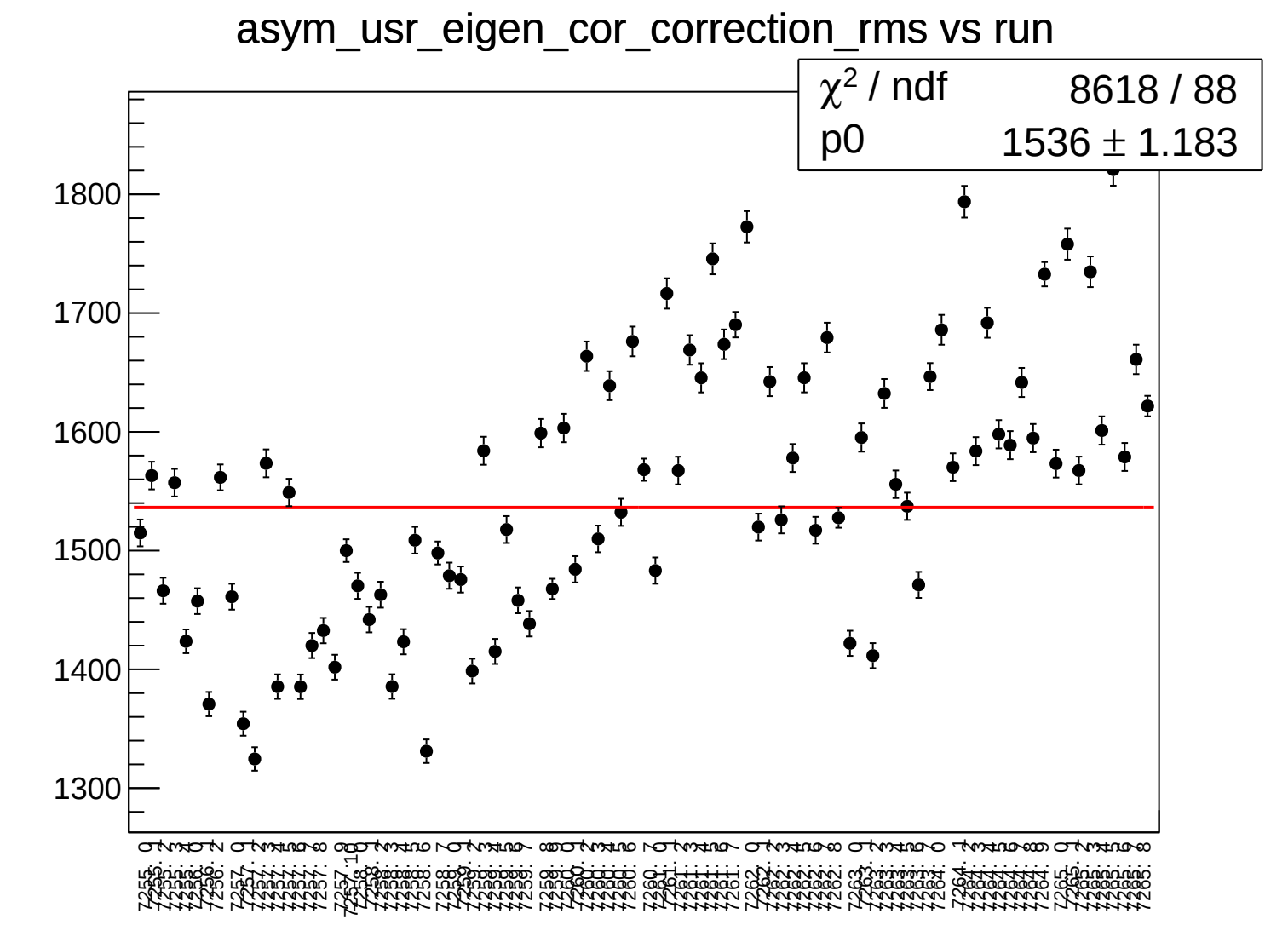

eigen_cor_asym_usr_mean vs run
χ² / ndf 83.19 / 88
p0 −2800 ± 1181
pull
Entries 89
Mean −77.54
Std Dev 0

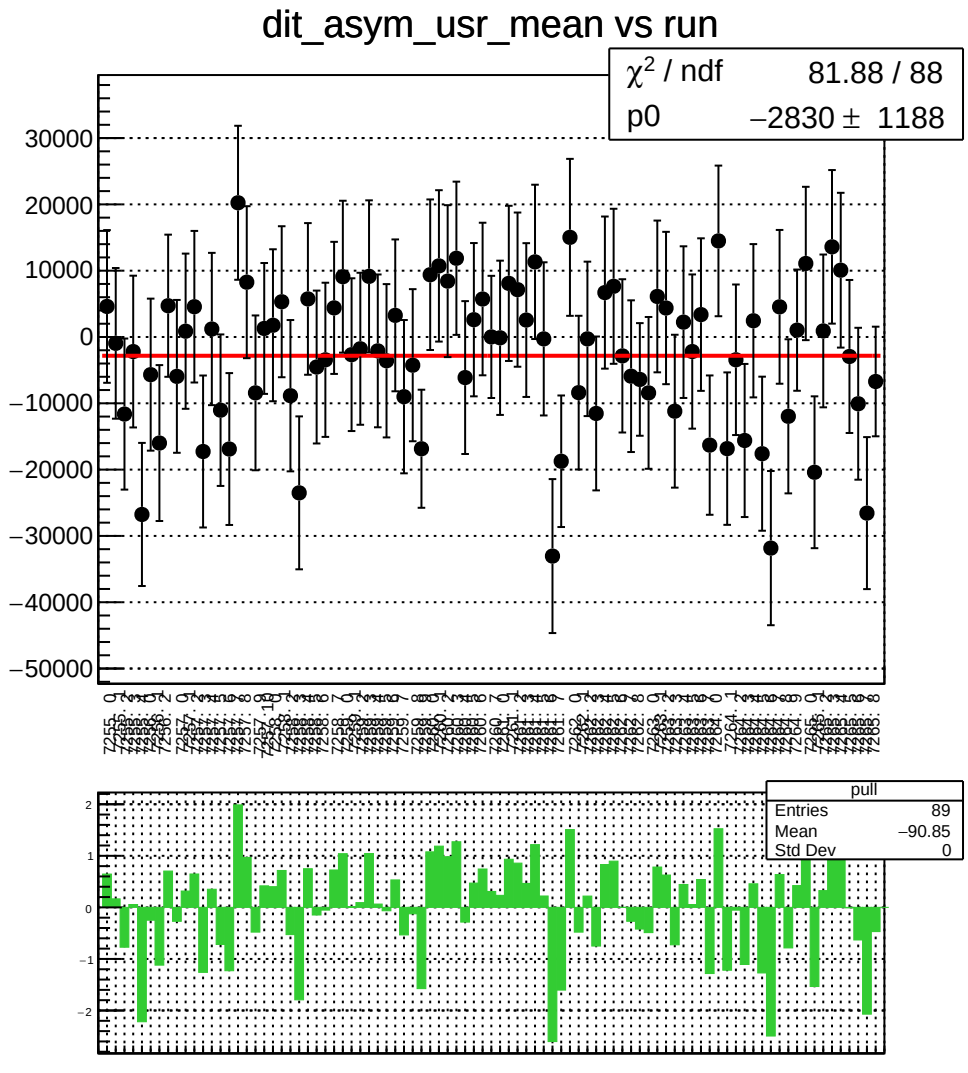

pull1D
Entries 89
Mean 0.009511
Std Dev 0.9668

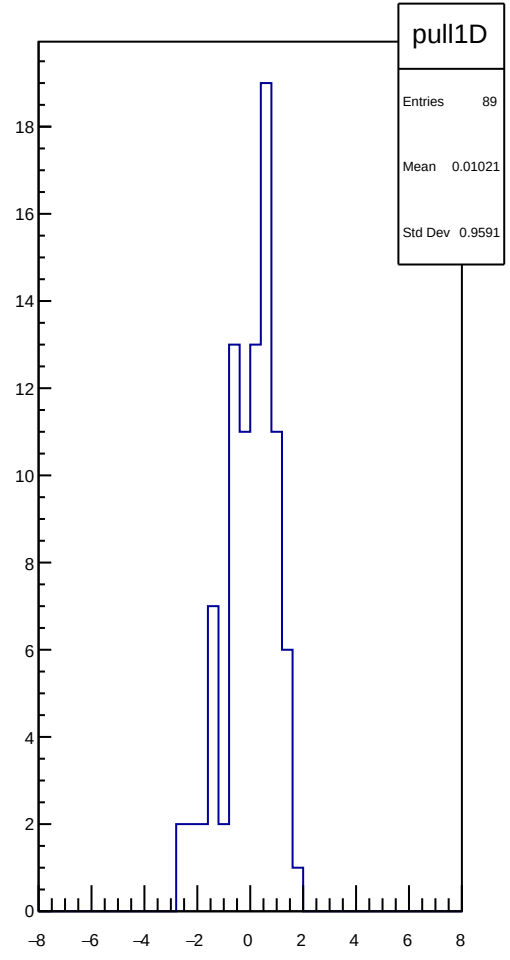

eigen_cor_asym_usr_rms vs run
χ² / ndf 78.66 / 88
p0 1088 ± 0.8354
1120
1110
1100
1090
1080
1070
1060

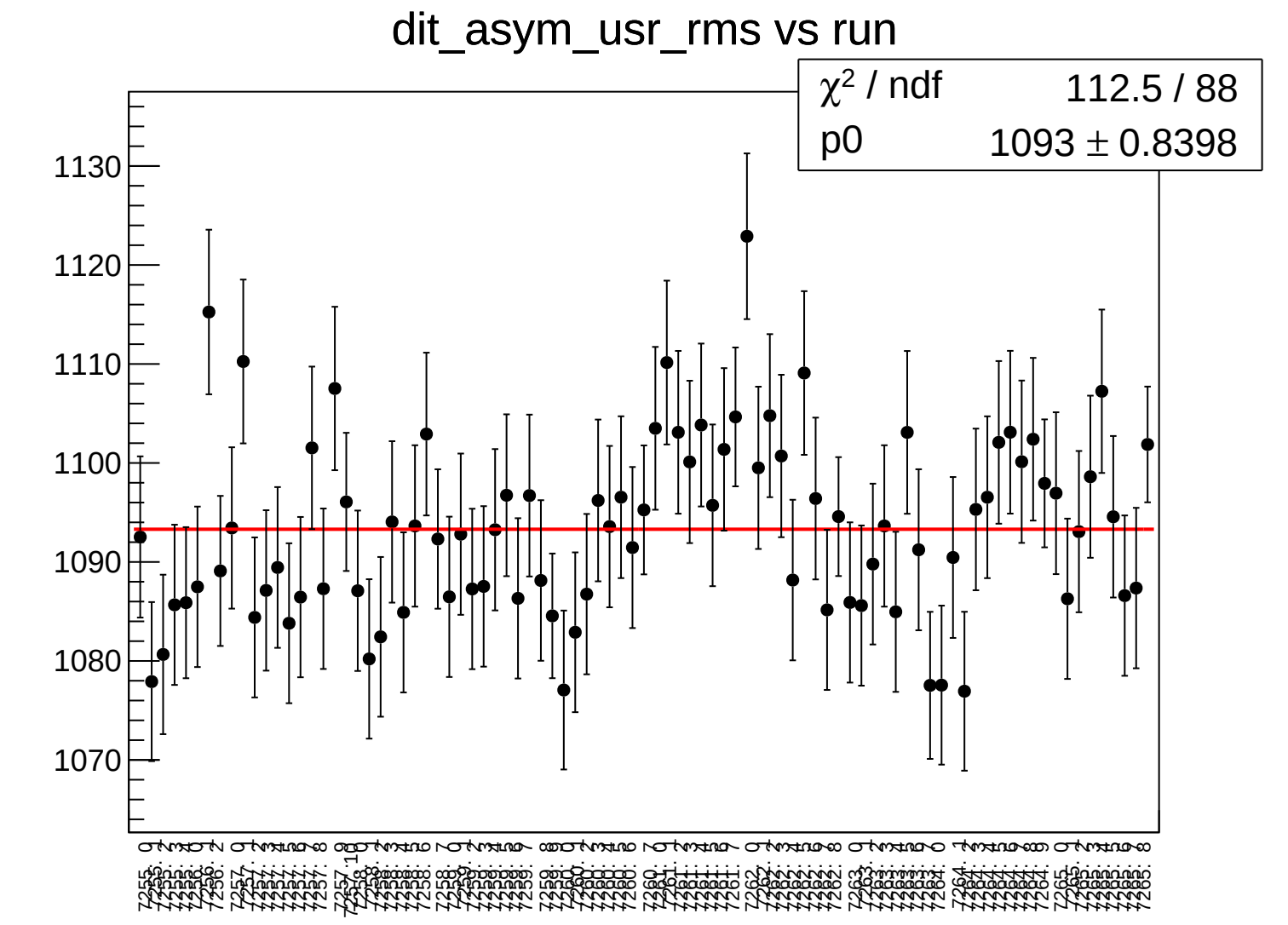

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 93.12 / 88
p0 1831 ± 1673
pull
Entries 89
Mean 1523
Std Dev 0

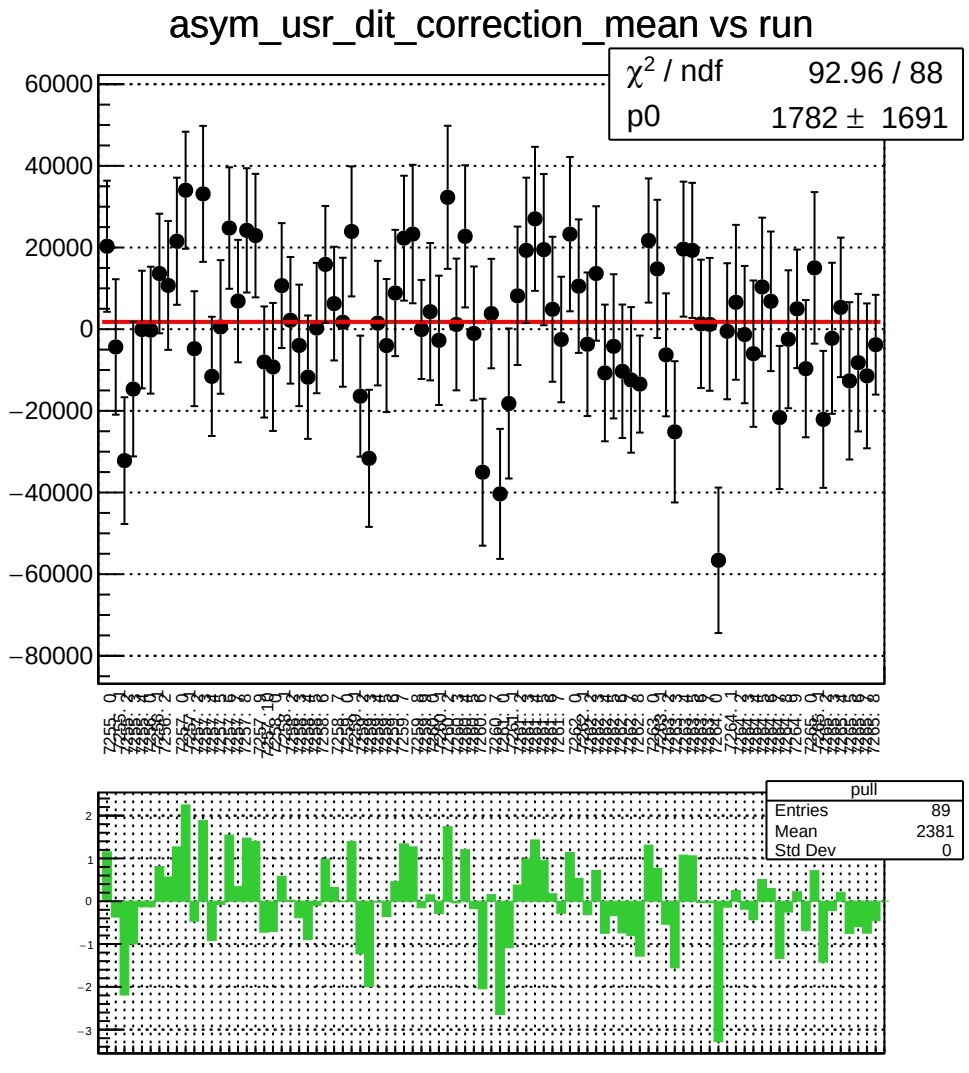

pull1D
Entries 89
Mean −0.003482
Std Dev 1.023

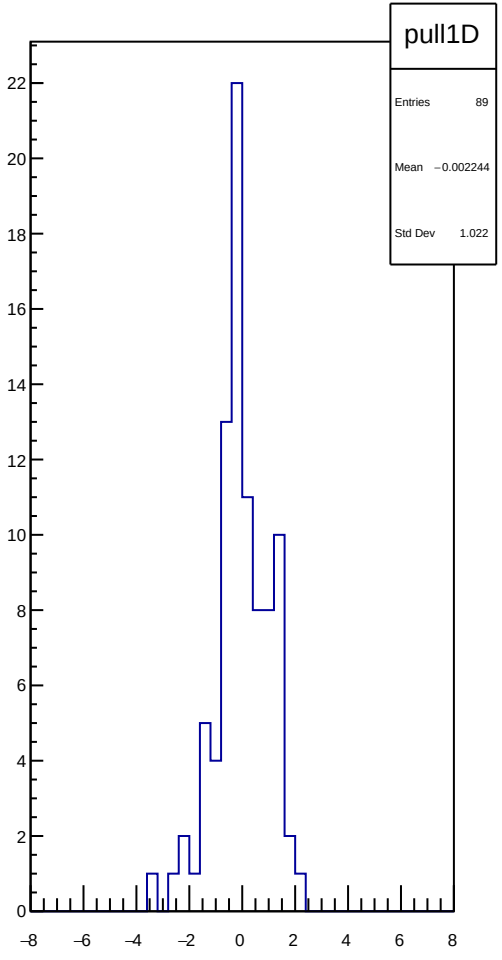

asym_usr_eigen_cor_correction_rms vs run
χ^2 / ndf 8618 / 88
p0 1536 ± 1.183
1800
1700
1600
1500
1400
1300

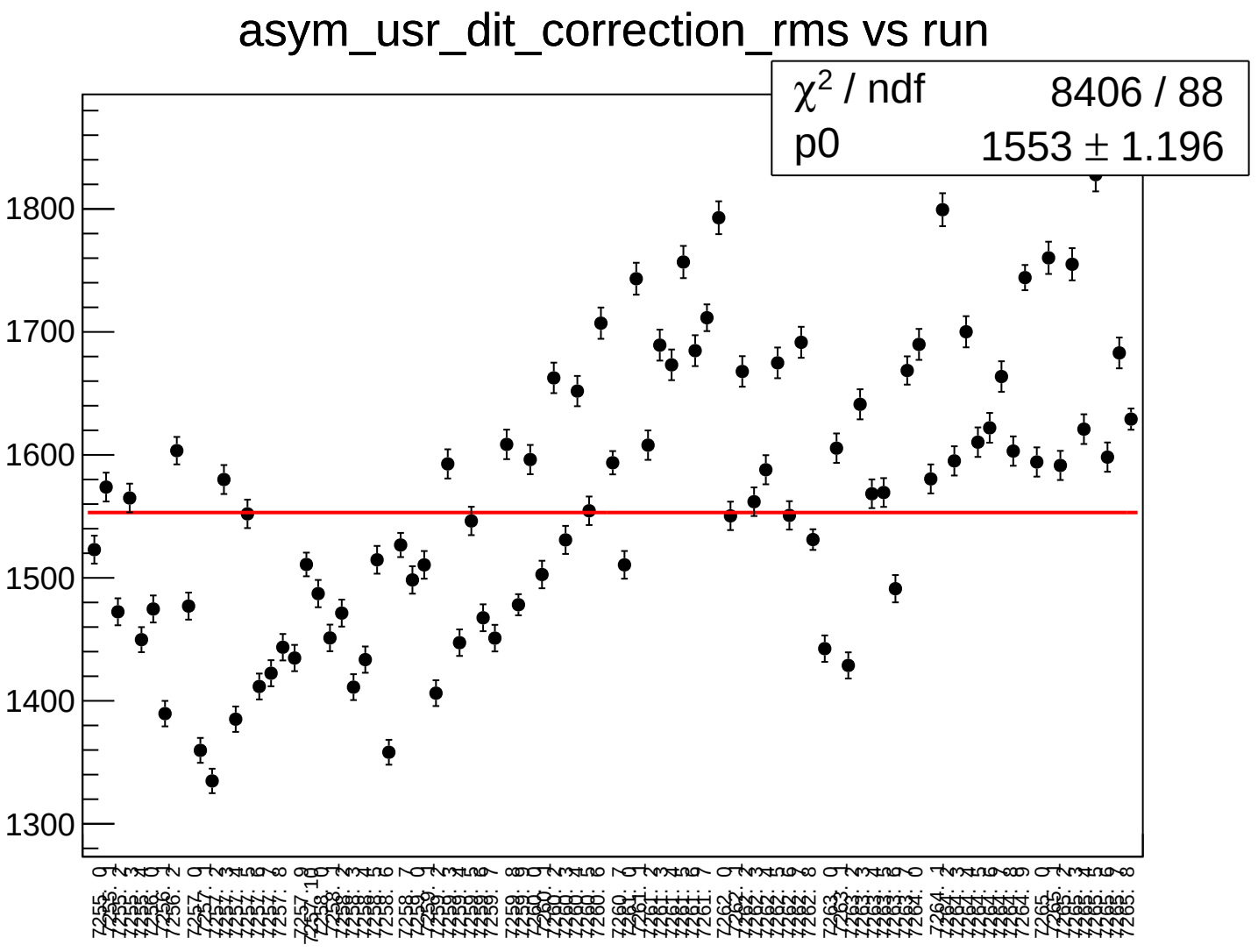

dit_asym_usr_mean vs run
χ² / ndf 81.88 / 88
p0 −2830 ± 1188
pull
Entries 89
Mean −90.85
Std Dev 0

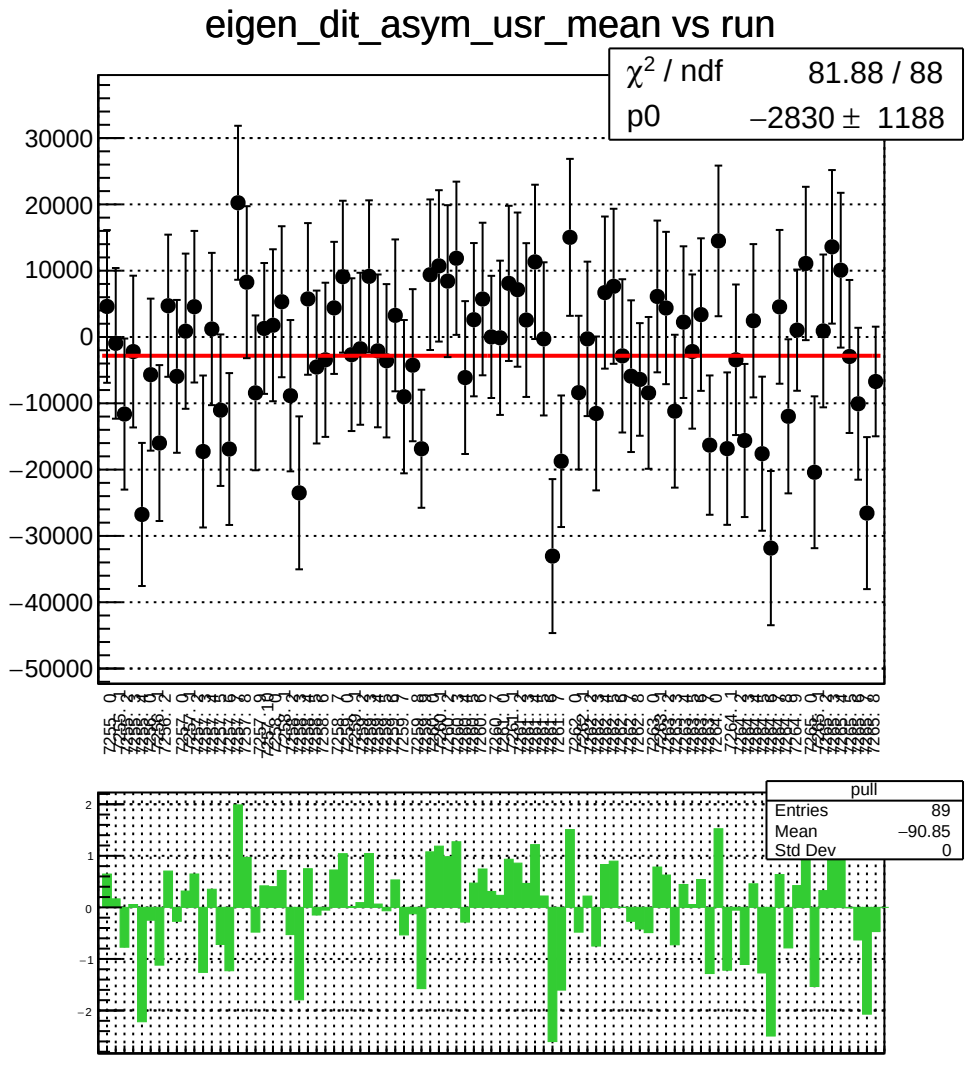

pull1D
Entries 89
Mean 0.01021
Std Dev 0.9591

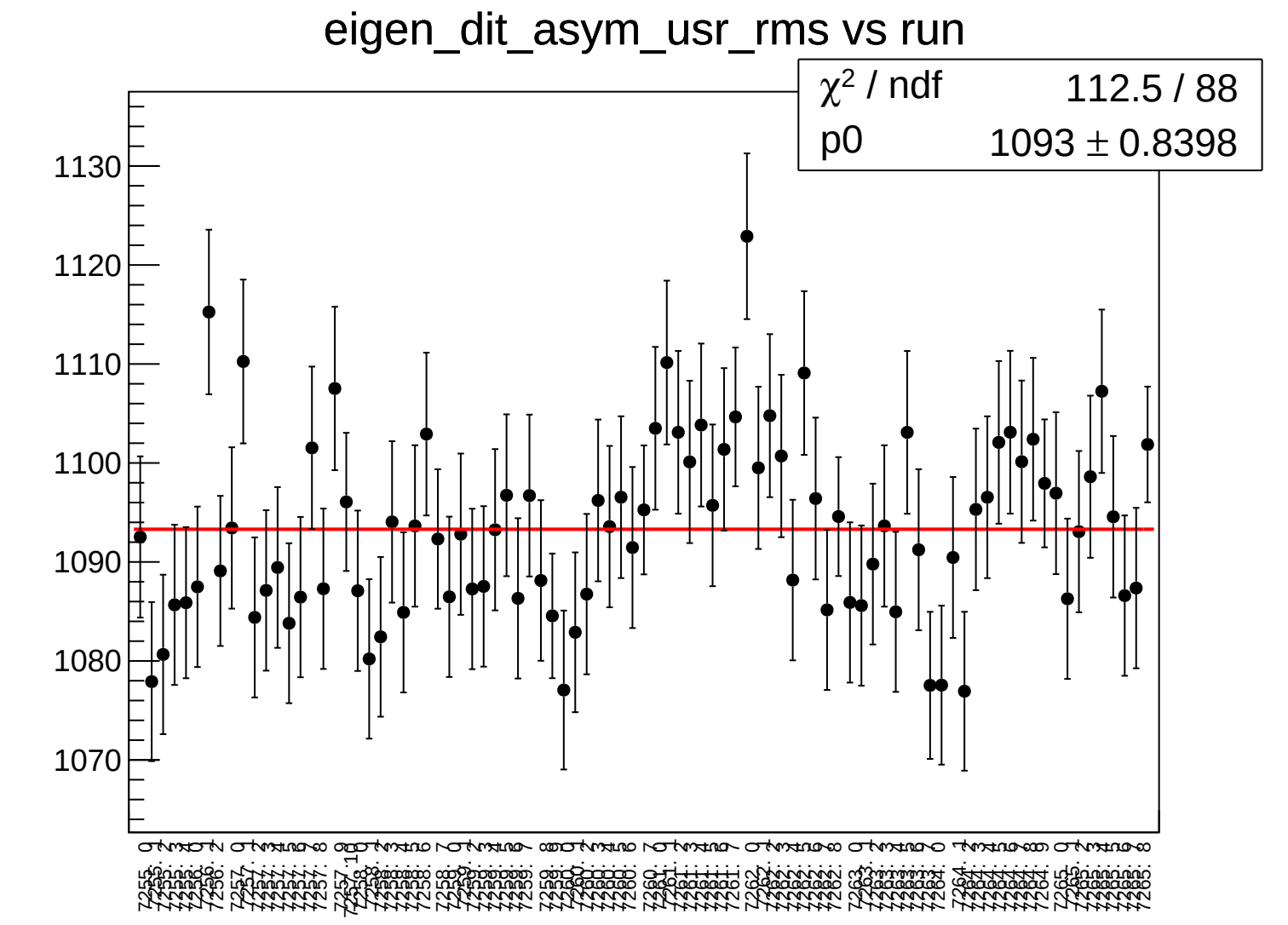

dit_asym_usr_rms vs run
χ² / ndf 112.5 / 88
p0 1093 ± 0.8398
1130
1120
1110
1100
1090
1080
1070

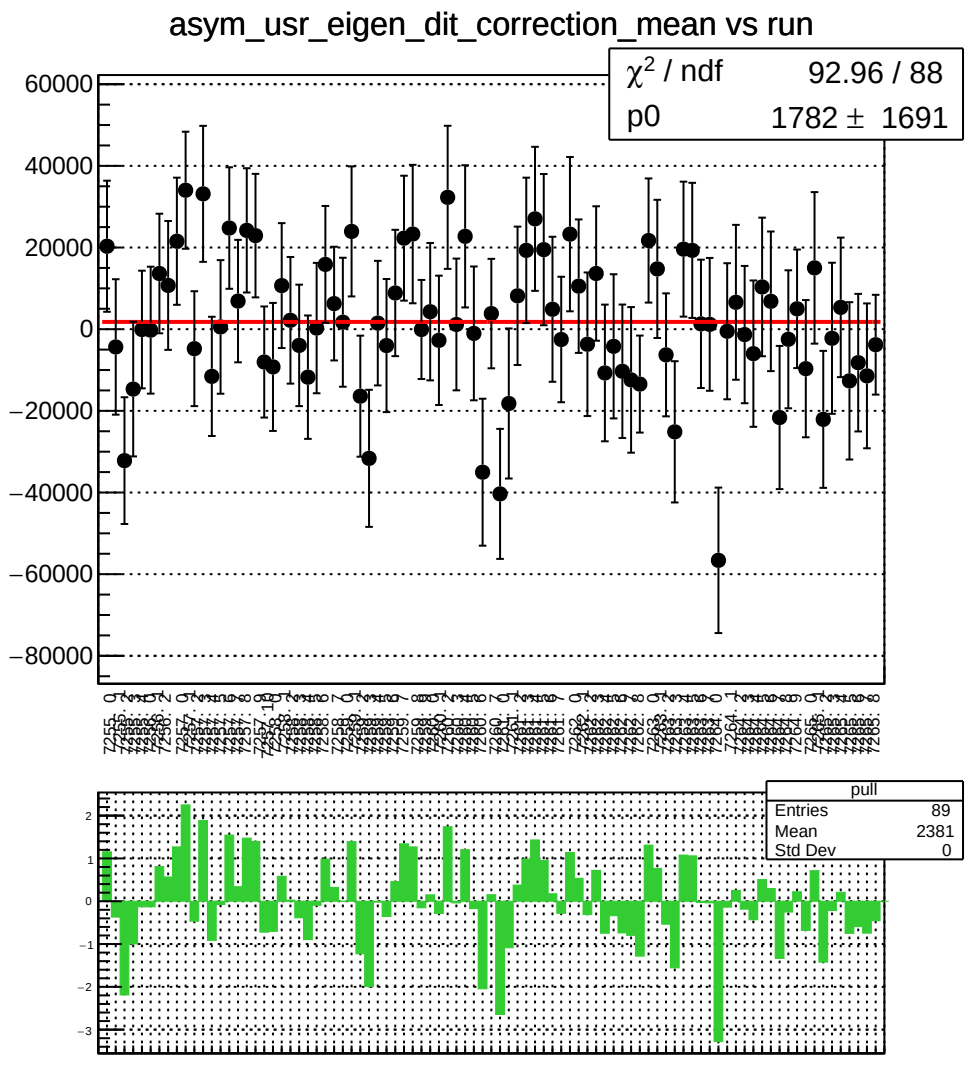

asym_usr_dit_correction_mean vs run
χ² / ndf 92.96 / 88
p0 1782 ± 1691
pull
Entries 89
Mean 2381
Std Dev 0

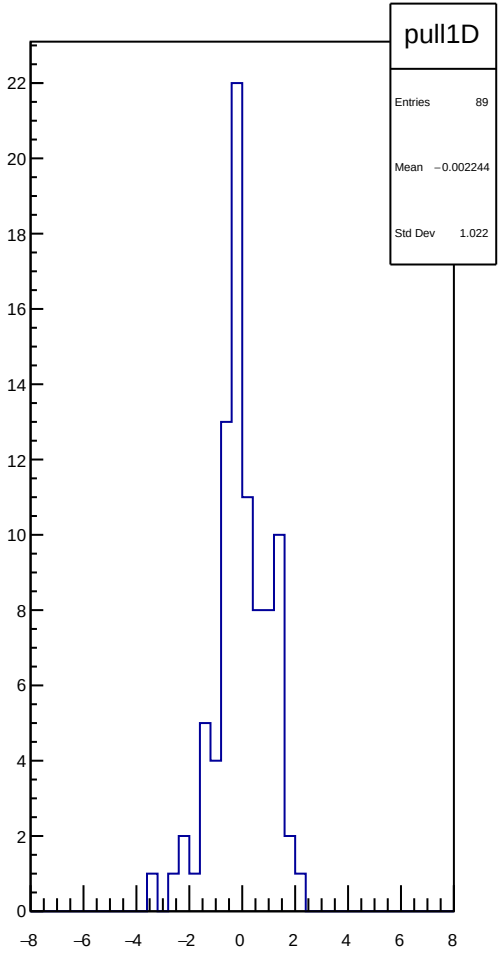

pull1D
Entries 89
Mean −0.002244
Std Dev 1.022

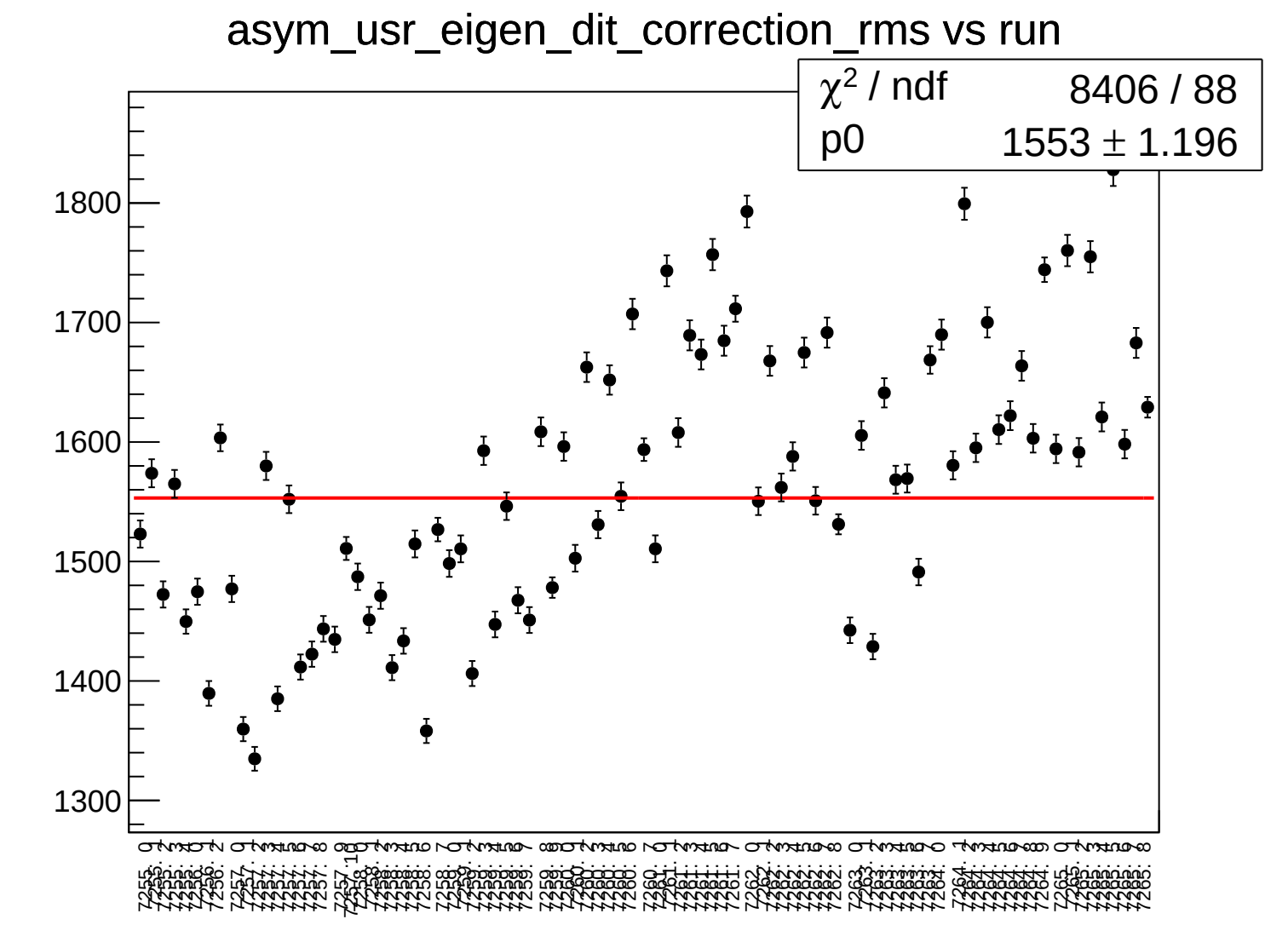

asym_usr_dit_correction_rms vs run
χ² / ndf 8406 / 88
p0 1553 ± 1.196
1800
1700
1600
1500
1400
1300

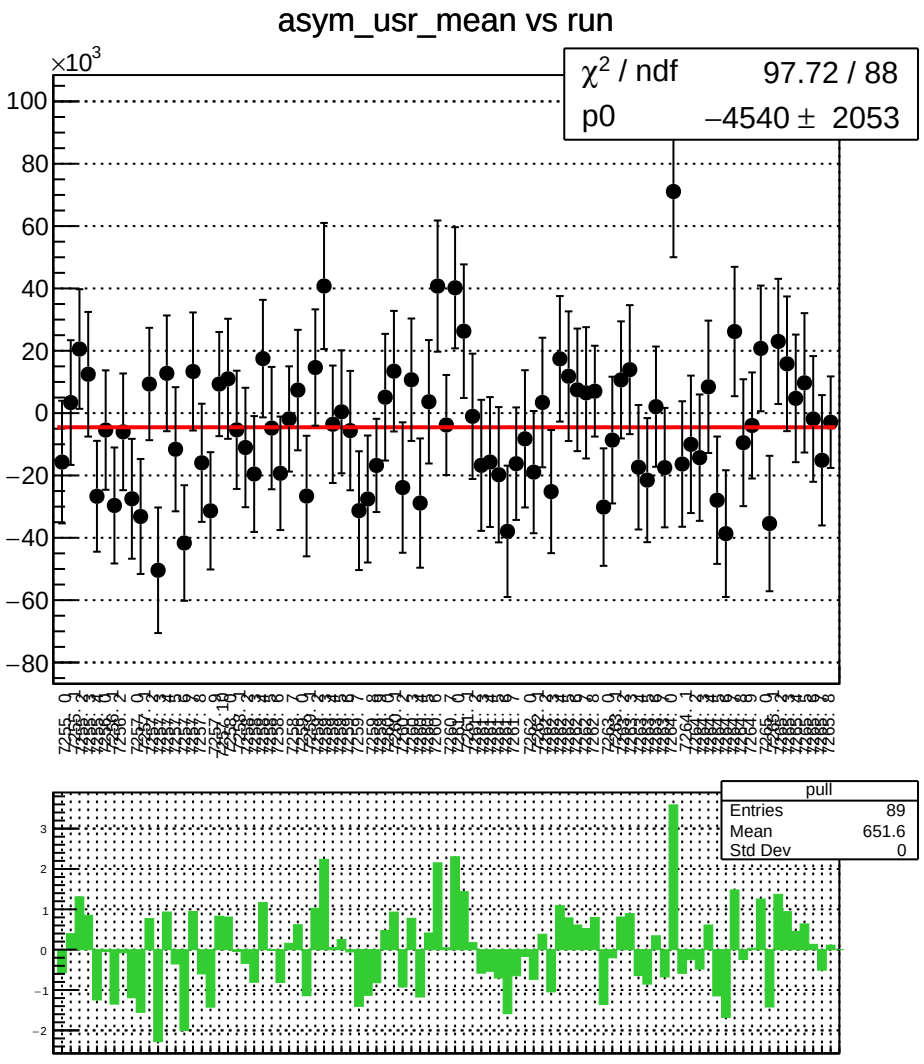

eigen_dit_asym_usr_mean vs run
χ² / ndf 81.88 / 88
p0 −2830 ± 1188
pull
Entries 89
Mean −90.85
Std Dev 0
pull1D
Entries 89
Mean 0.01021
Std Dev 0.9591

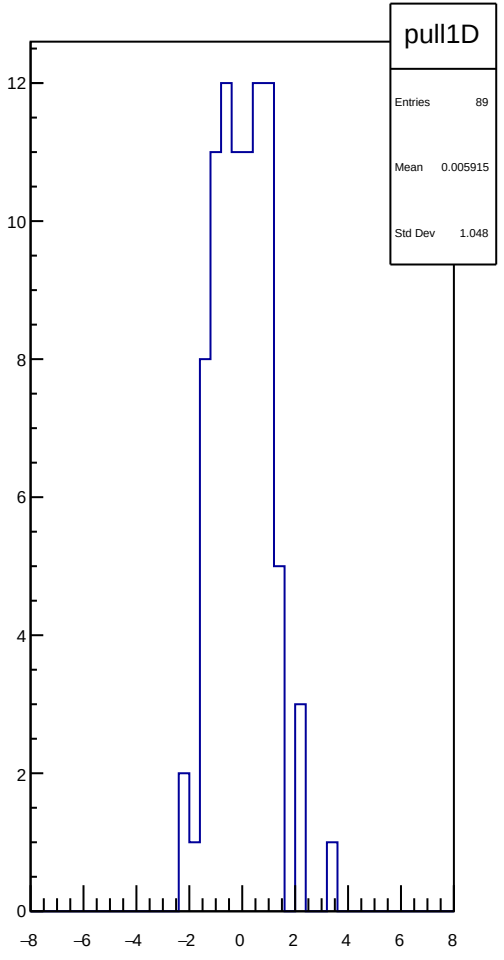

eigen_dit_asym_usr_rms vs run
χ² / ndf 112.5 / 88
p0 1093 ± 0.8398
1130
1120
1110
1100
1090
1080
1070

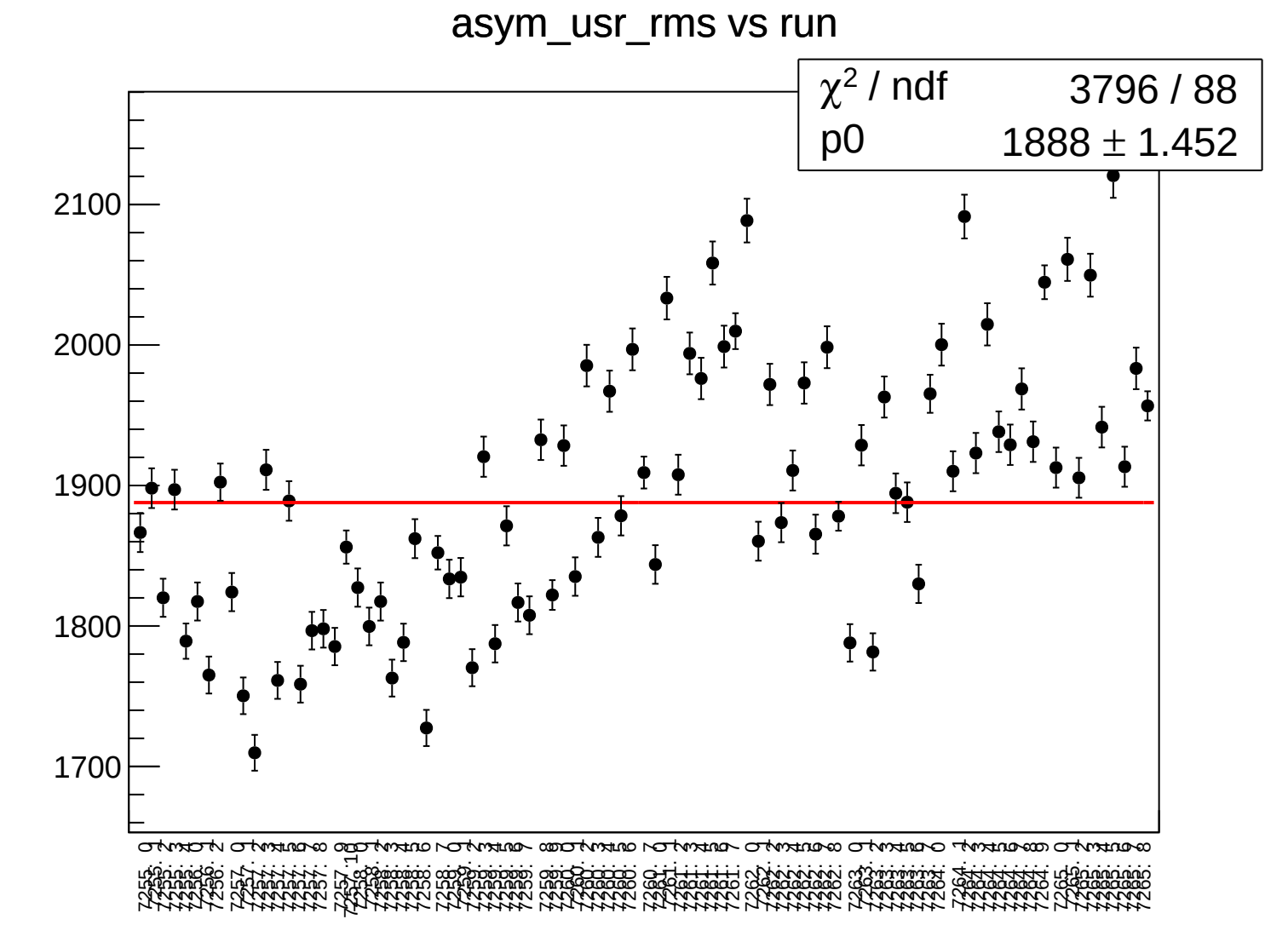

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 92.96 / 88
p0 1782 ± 1691
pull
Entries 89
Mean 2381
Std Dev 0

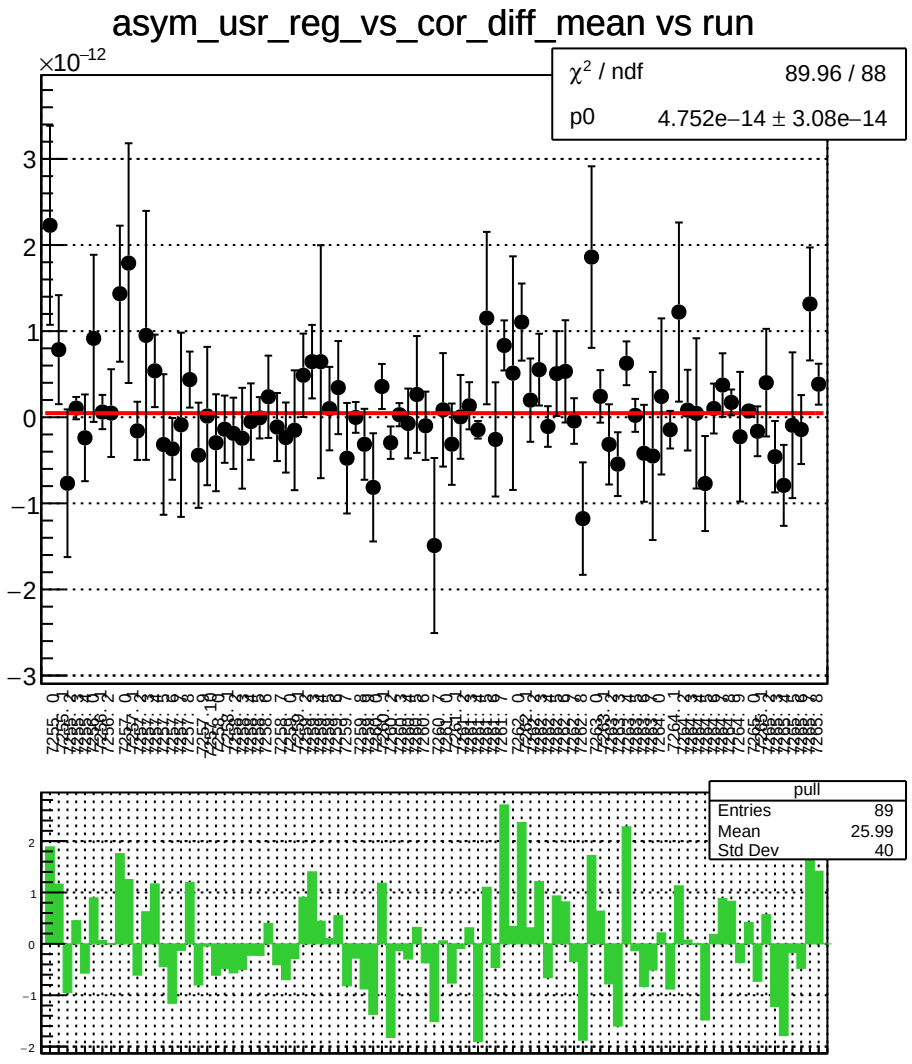

pull1D
Entries 89
Mean −0.002244
Std Dev 1.022

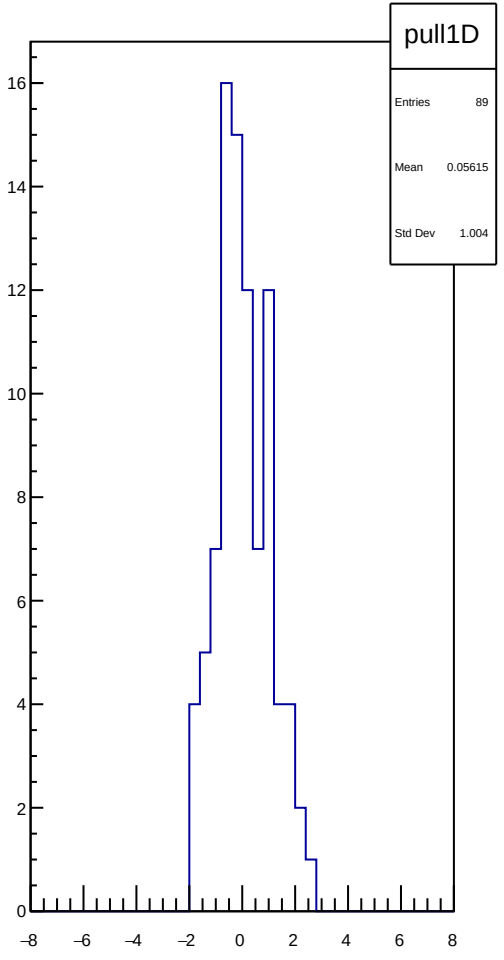

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 8406 / 88
p0 1553 ± 1.196
1800
1700
1600
1500
1400
1300

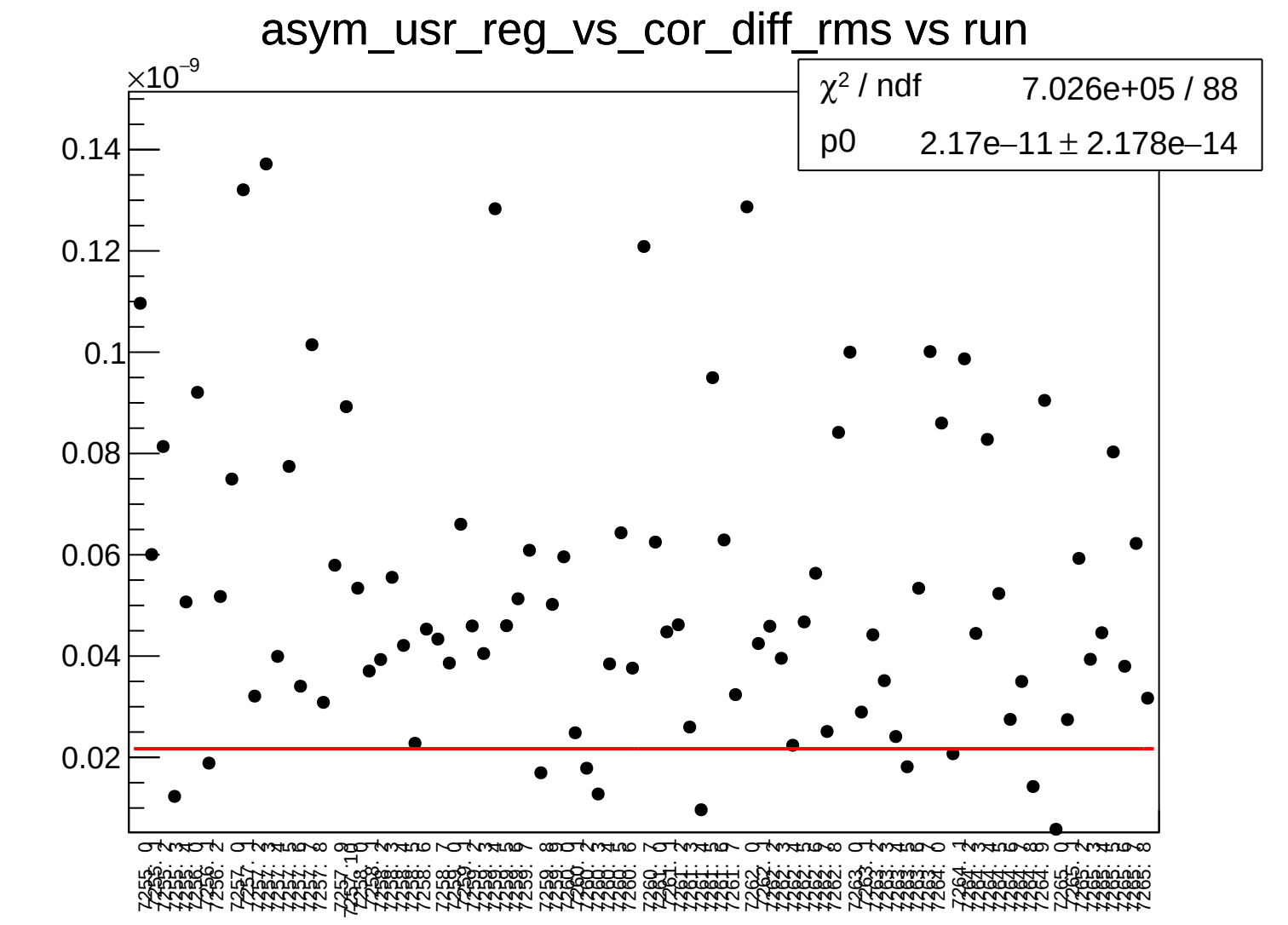

asym_usr_mean vs run
×10^3
χ² / ndf 97.72 / 88
p0 −4540 ± 2053
pull
Entries 89
Mean 651.6
Std Dev 0

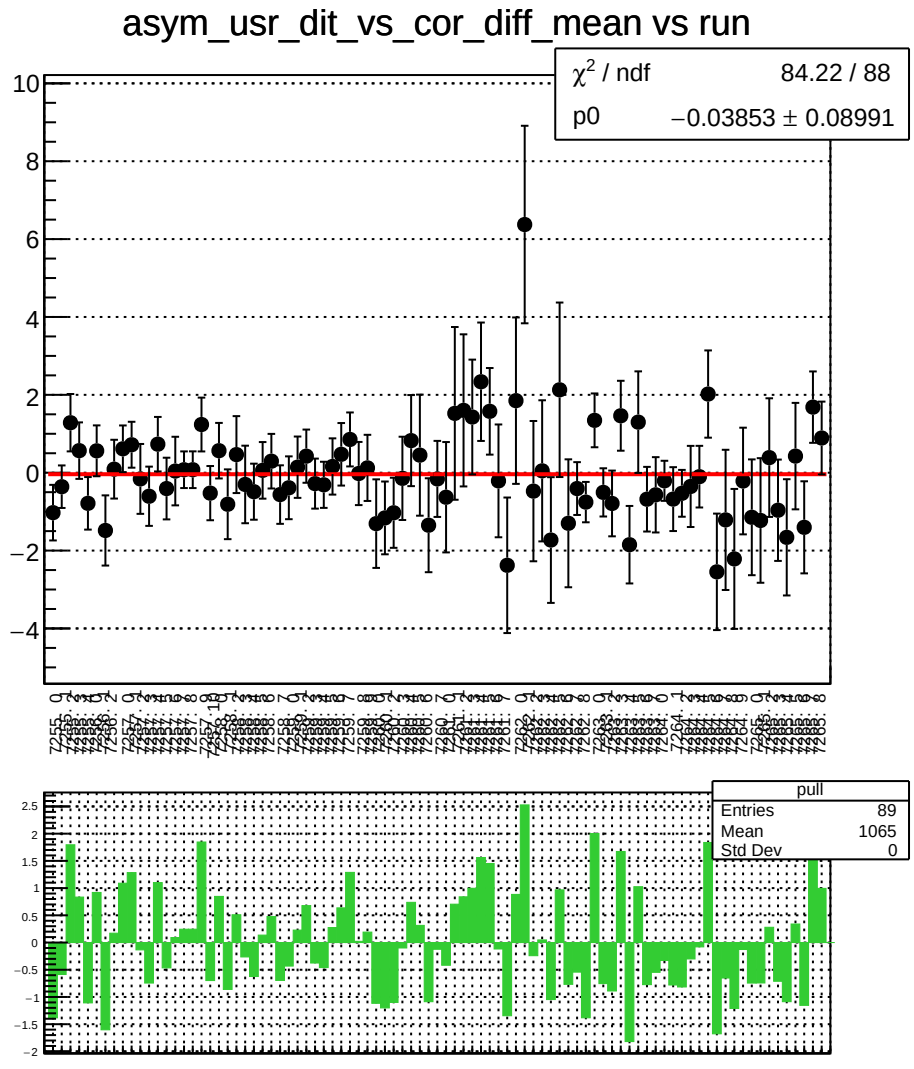

pull1D
Entries 89
Mean 0.005915
Std Dev 1.048

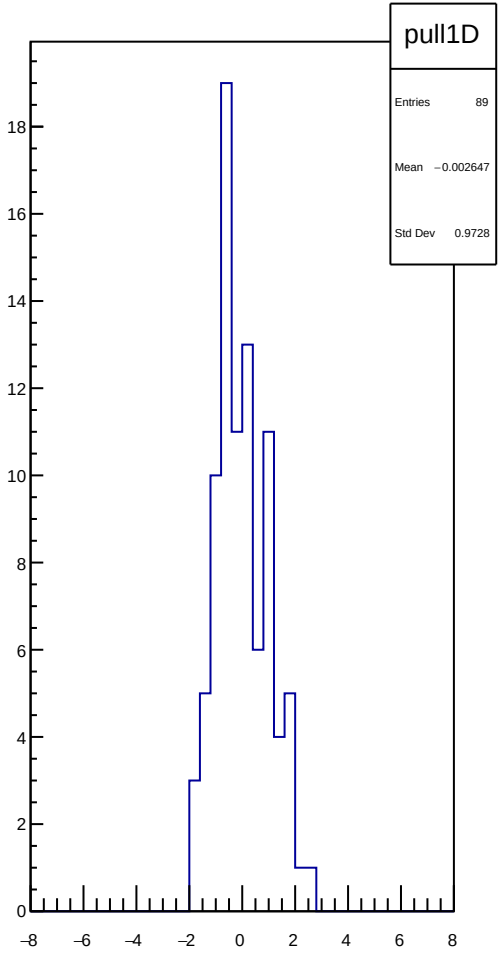

asym_usr_rms vs run
χ² / ndf 3796 / 88
p0 1888 ± 1.452
2100
2000
1900
1800
1700

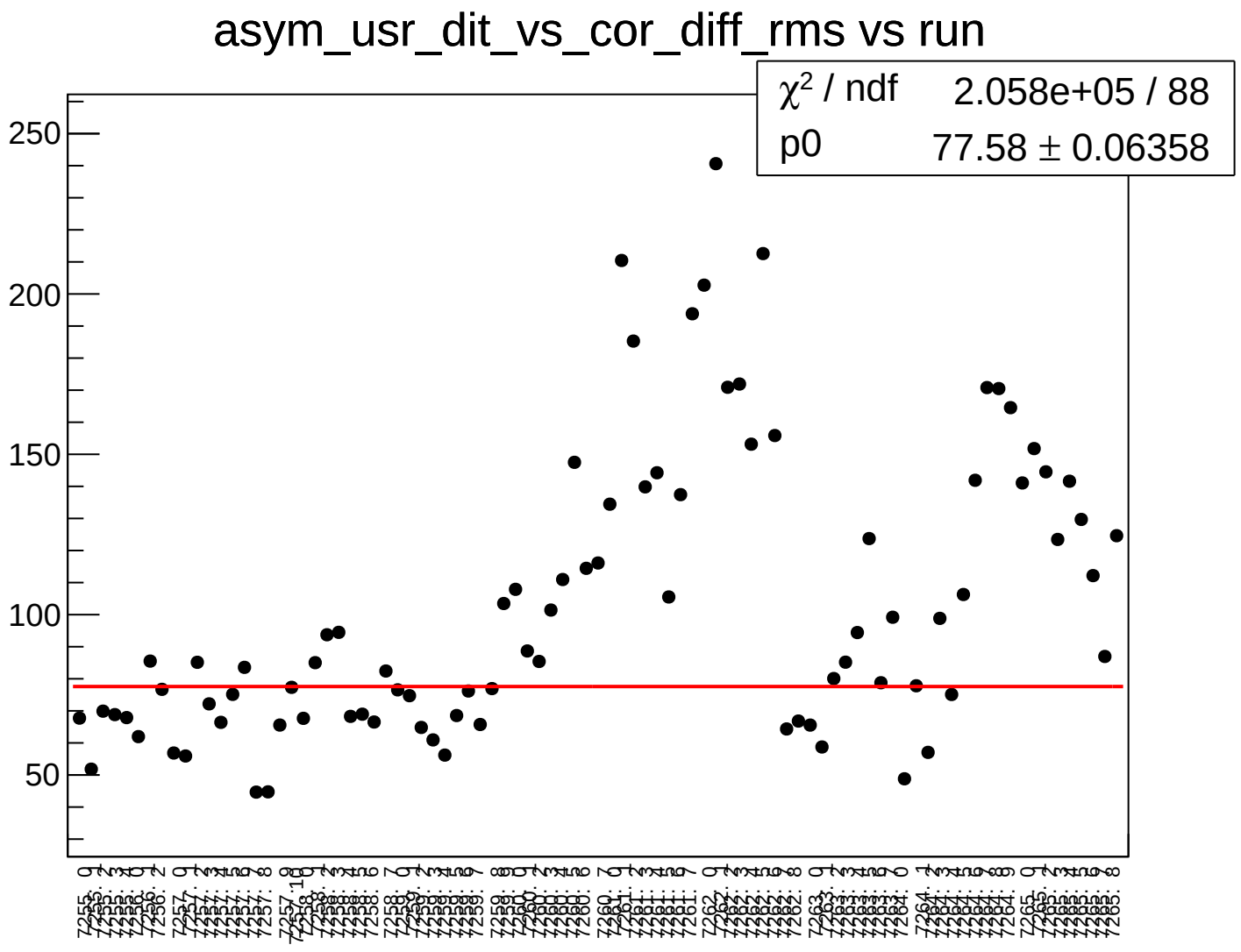

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.96 / 88
p0 4.752e−14 ± 3.08e−14
pull
Entries 89
Mean 25.99
Std Dev 40

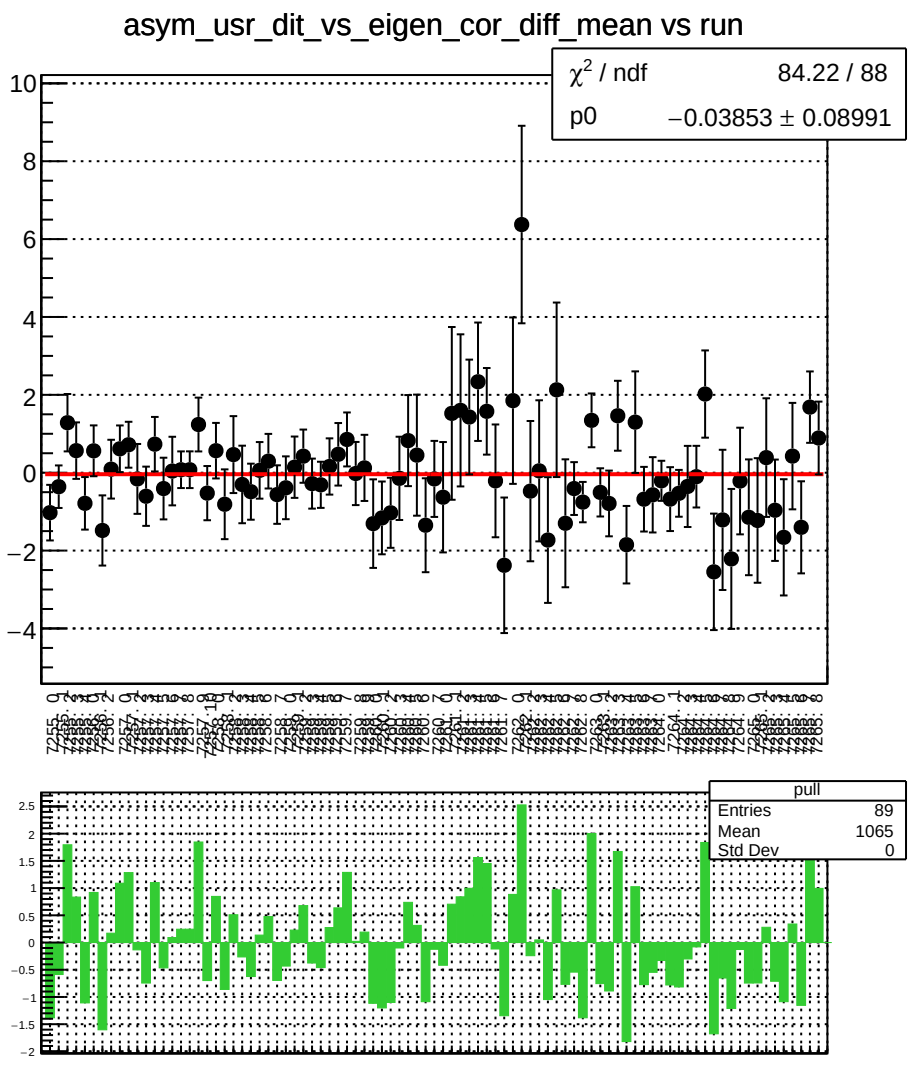

pull1D
Entries 89
Mean 0.05615
Std Dev 1.004

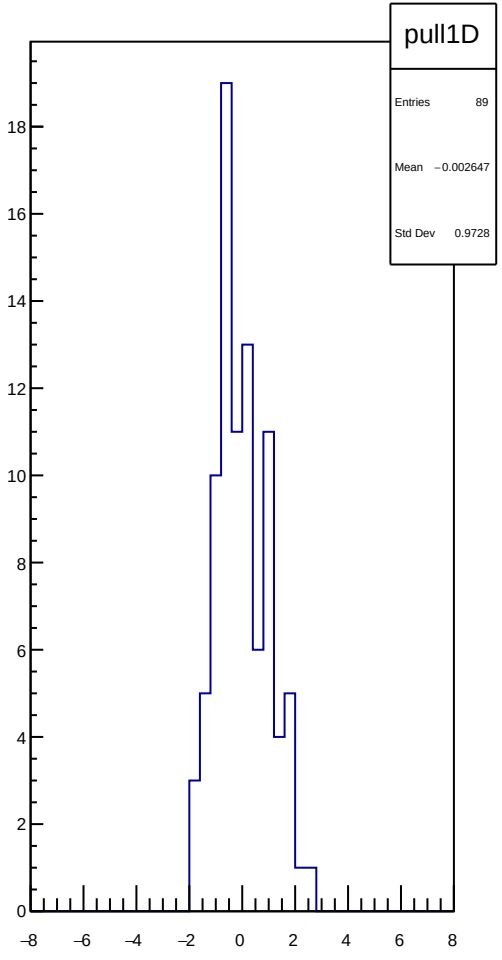

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.026e+05 / 88
p0 2.17e−11 ± 2.178e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

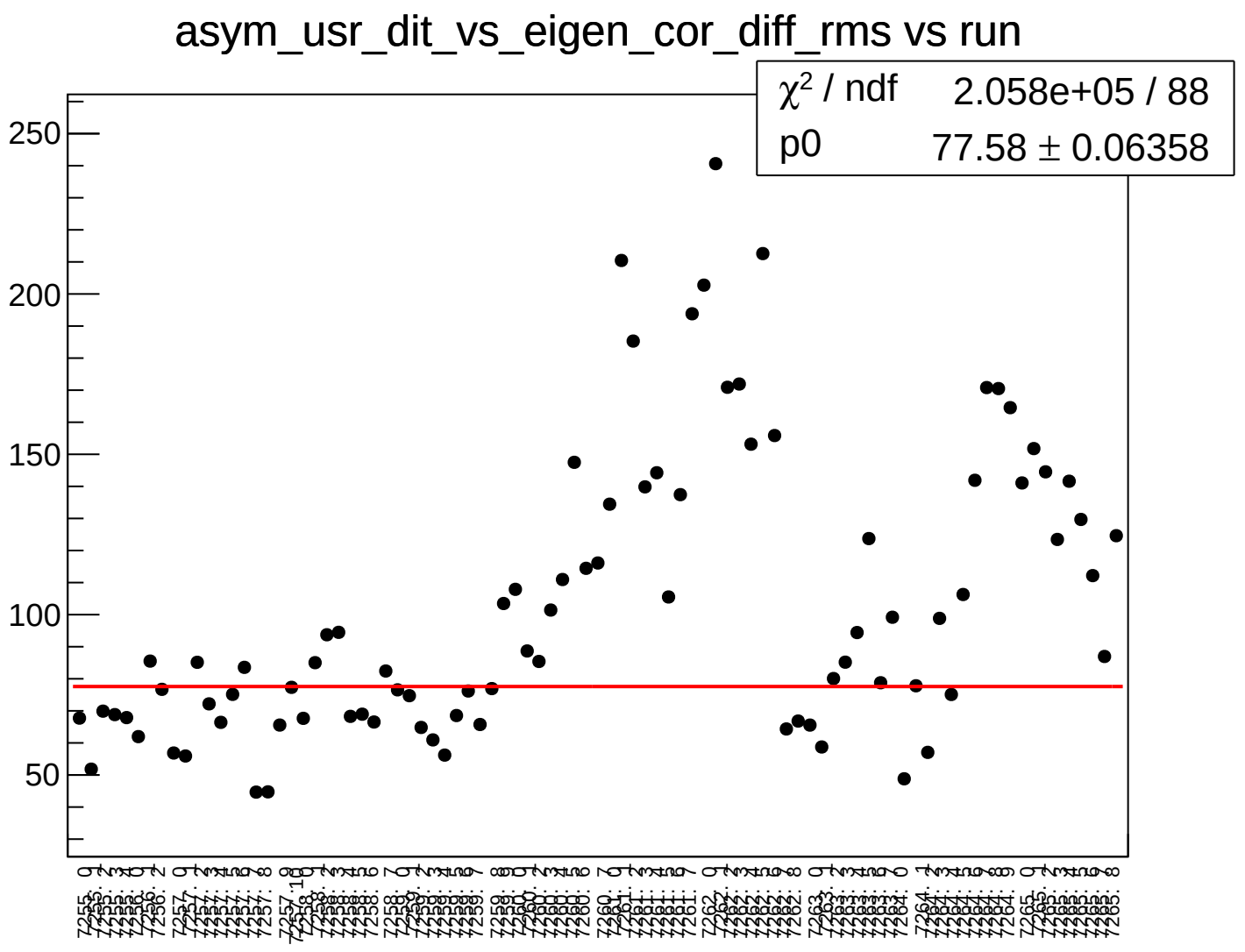

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 84.22 / 88
p0 −0.03853 ± 0.08991
pull
Entries 89
Mean 1065
Std Dev 0

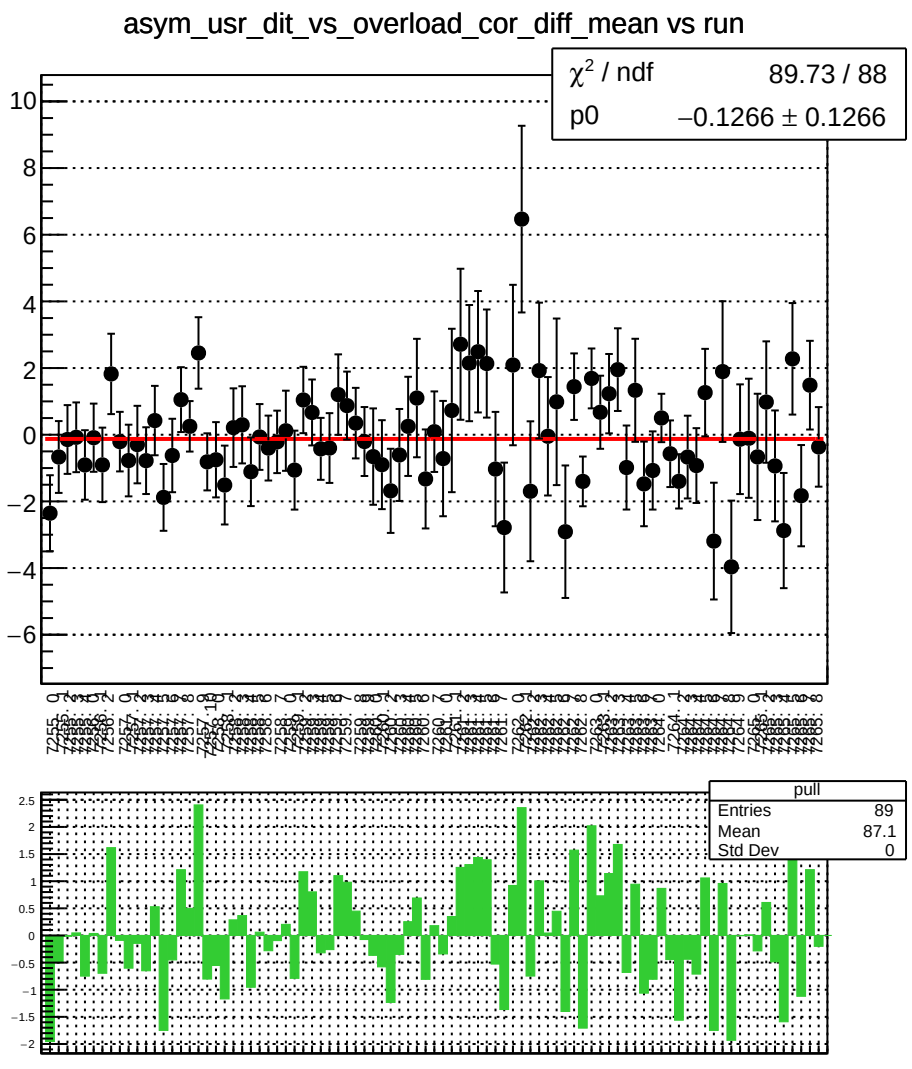

pull1D
Entries 89
Mean −0.002647
Std Dev 0.9728

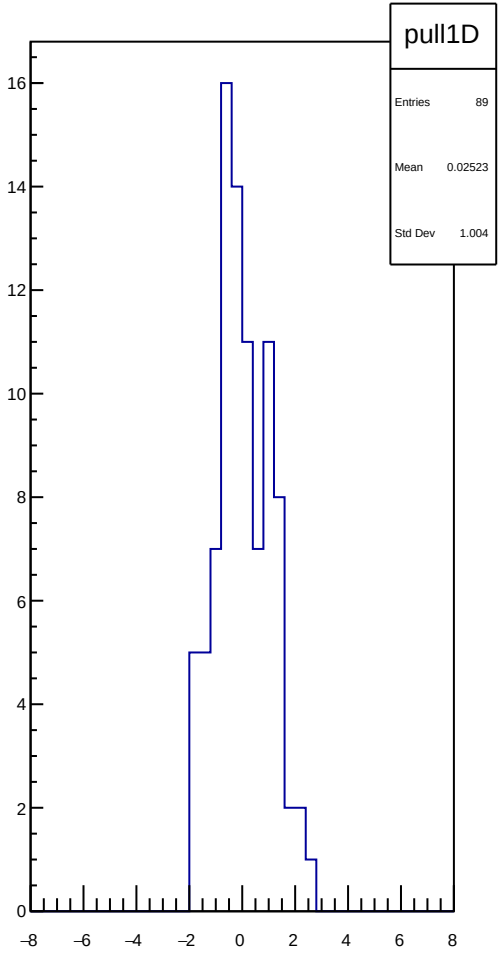

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 2.058e+05 / 88
p0 77.58 ± 0.06358
250
200
150
100
50

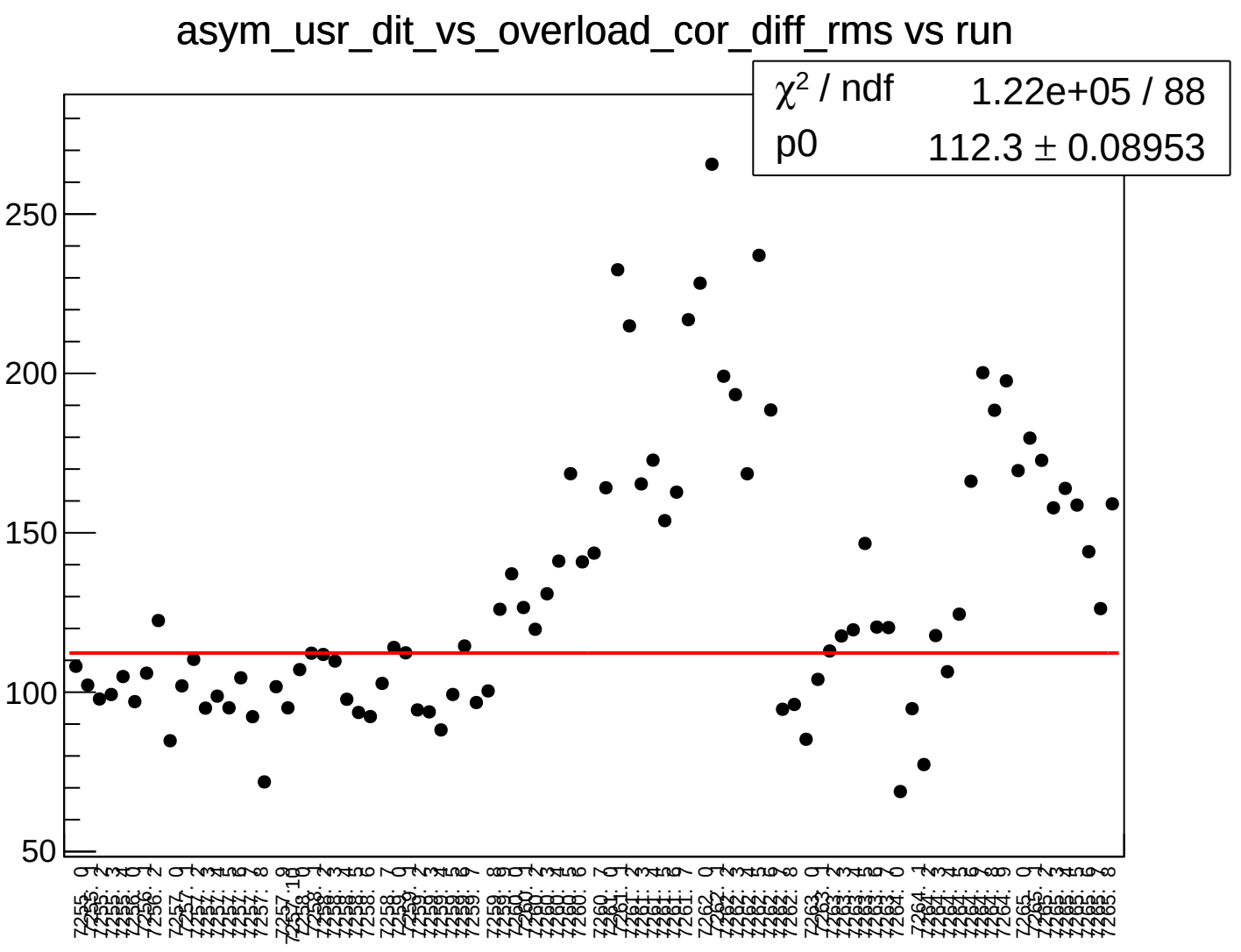

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.22 / 88
p0 −0.03853 ± 0.08991
pull
Entries 89
Mean 1065
Std Dev 0

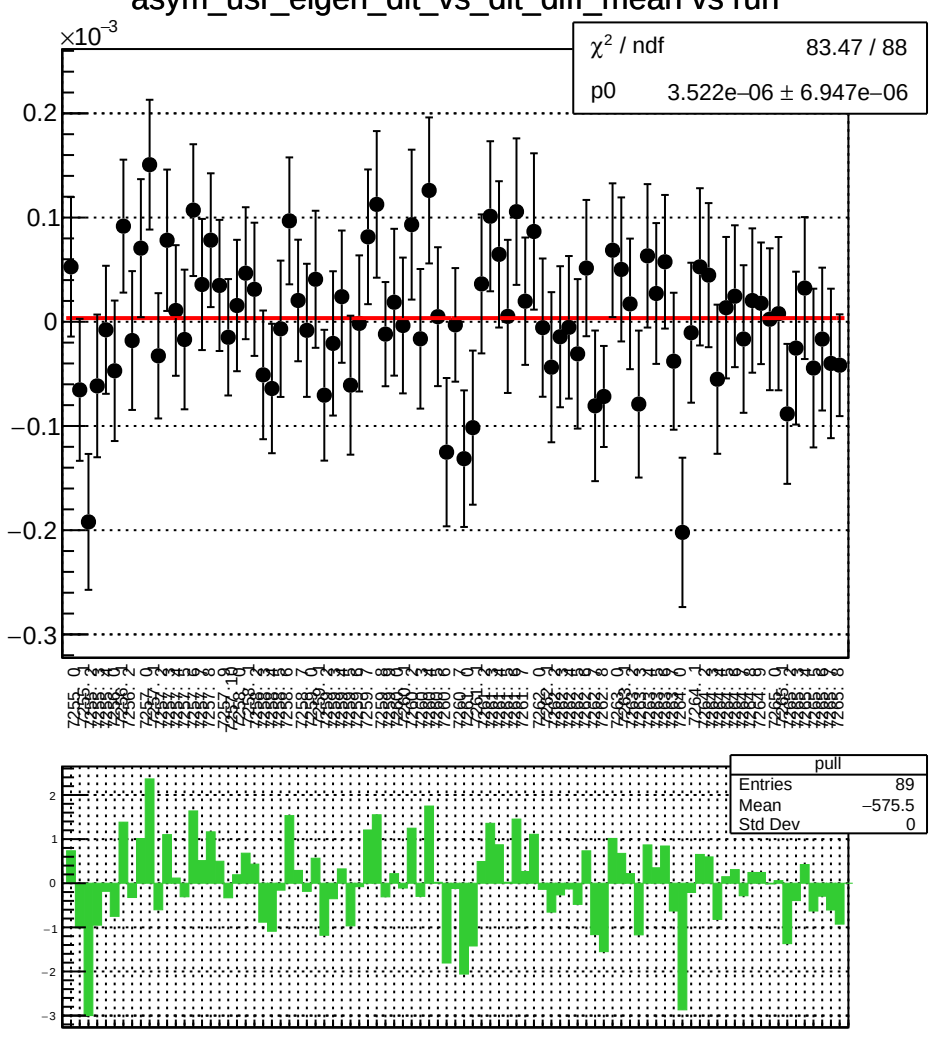

pull1D
Entries 89
Mean −0.002647
Std Dev 0.9728

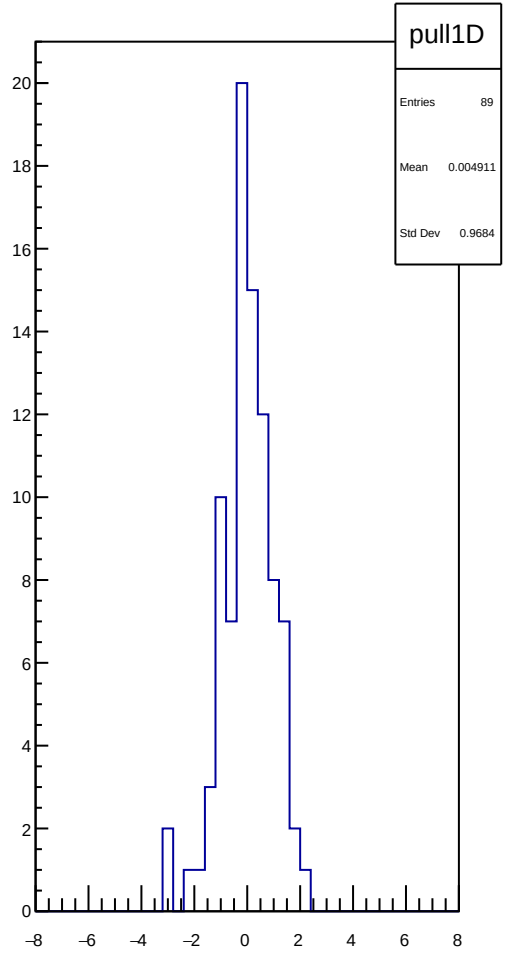

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.058e+05 / 88
p0 77.58 ± 0.06358
250
200
150
100
50

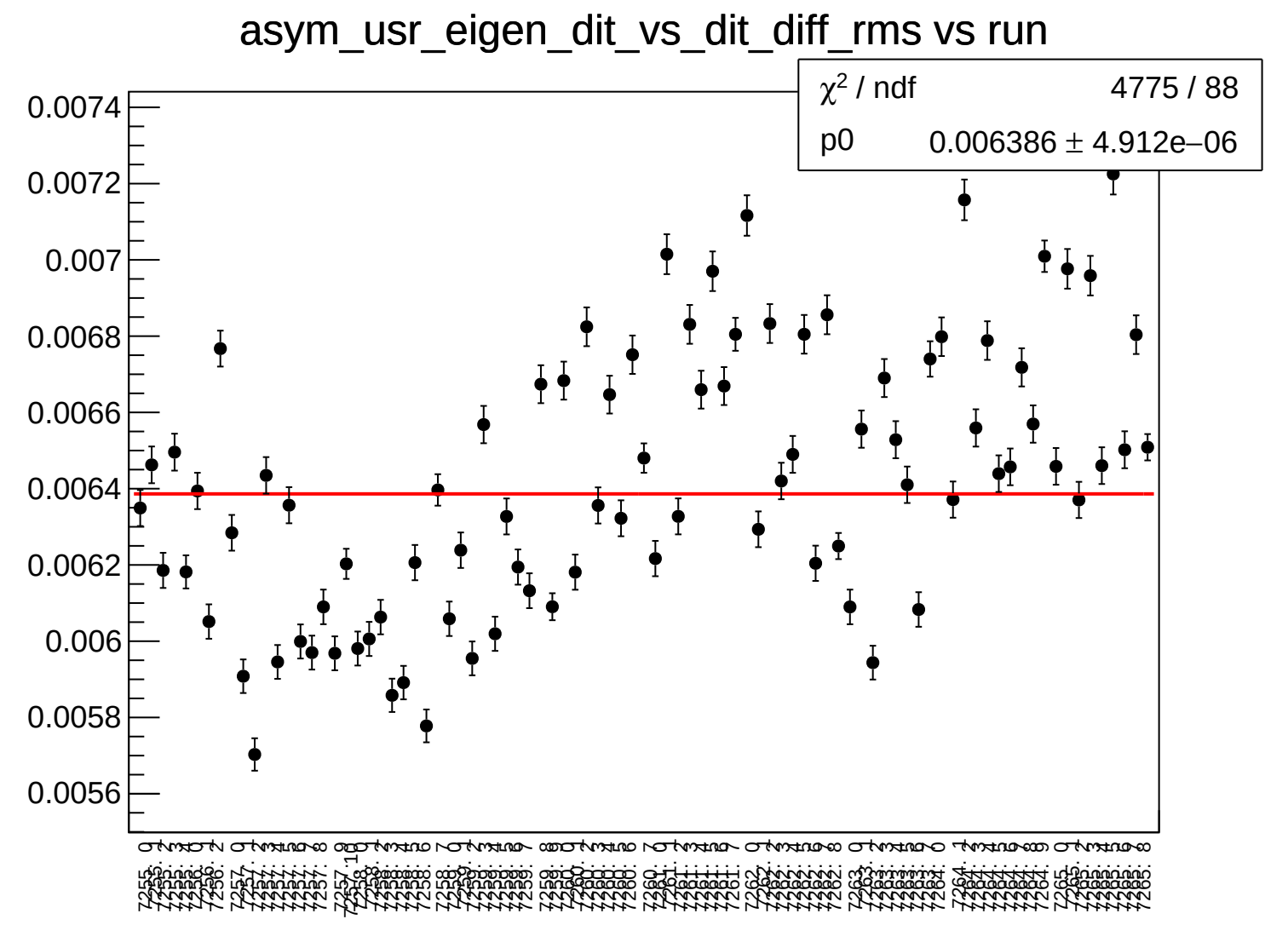

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 89.73 / 88
p0 −0.1266 ± 0.1266
pull
Entries 89
Mean 87.1
Std Dev 0

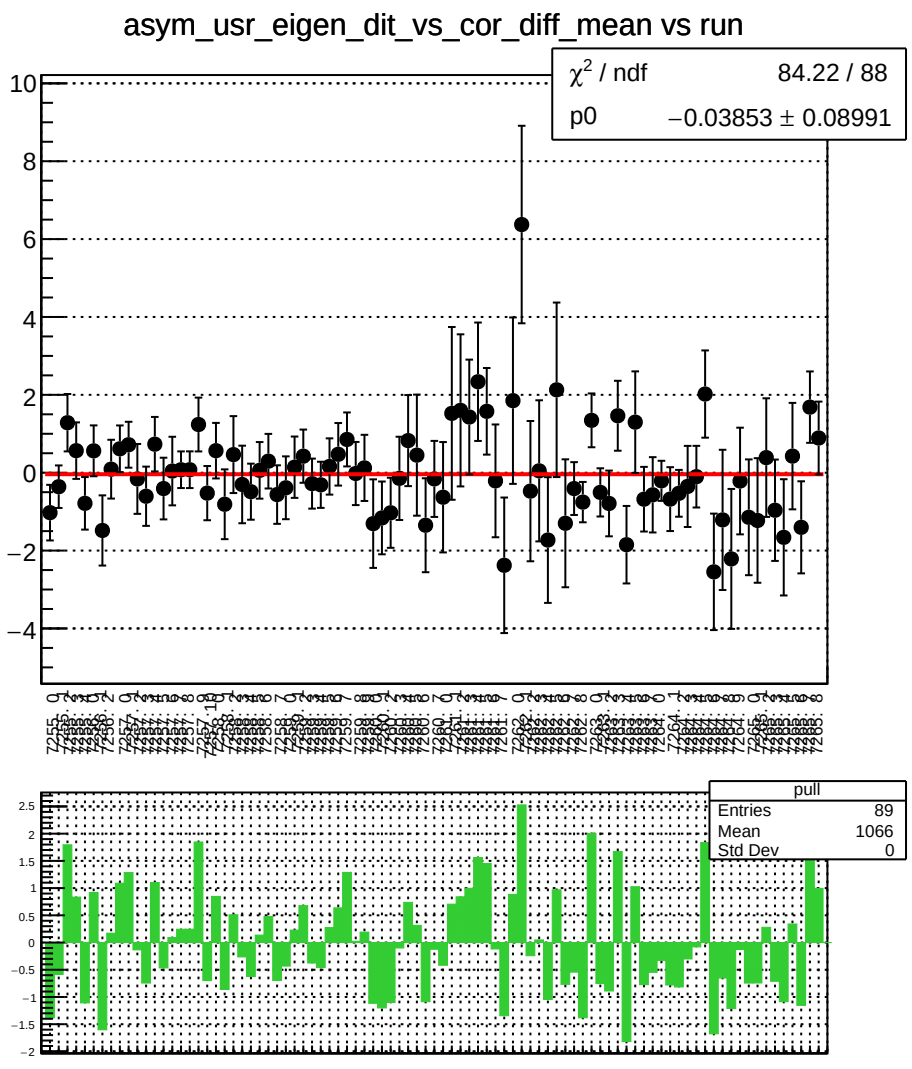

pull1D
Entries 89
Mean 0.02523
Std Dev 1.004

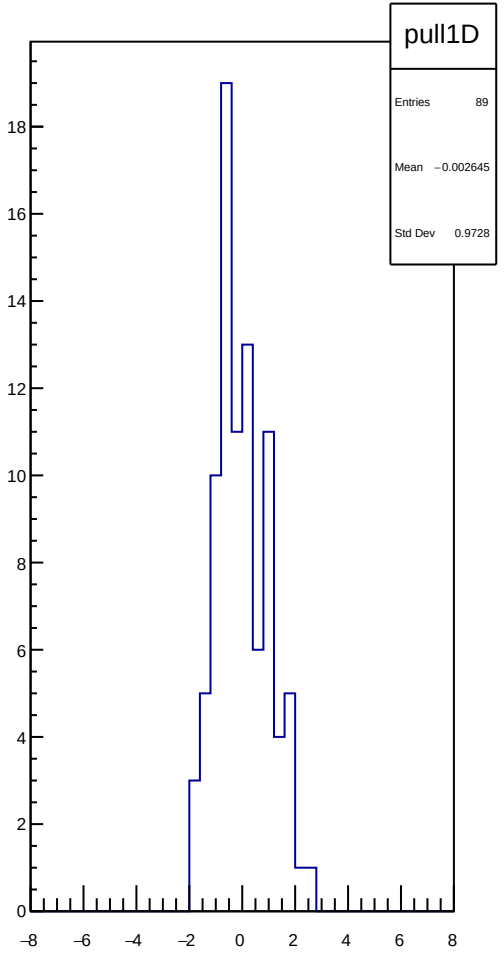

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.22e+05 / 88
p0 112.3 ± 0.08953
250
200
150
100
50

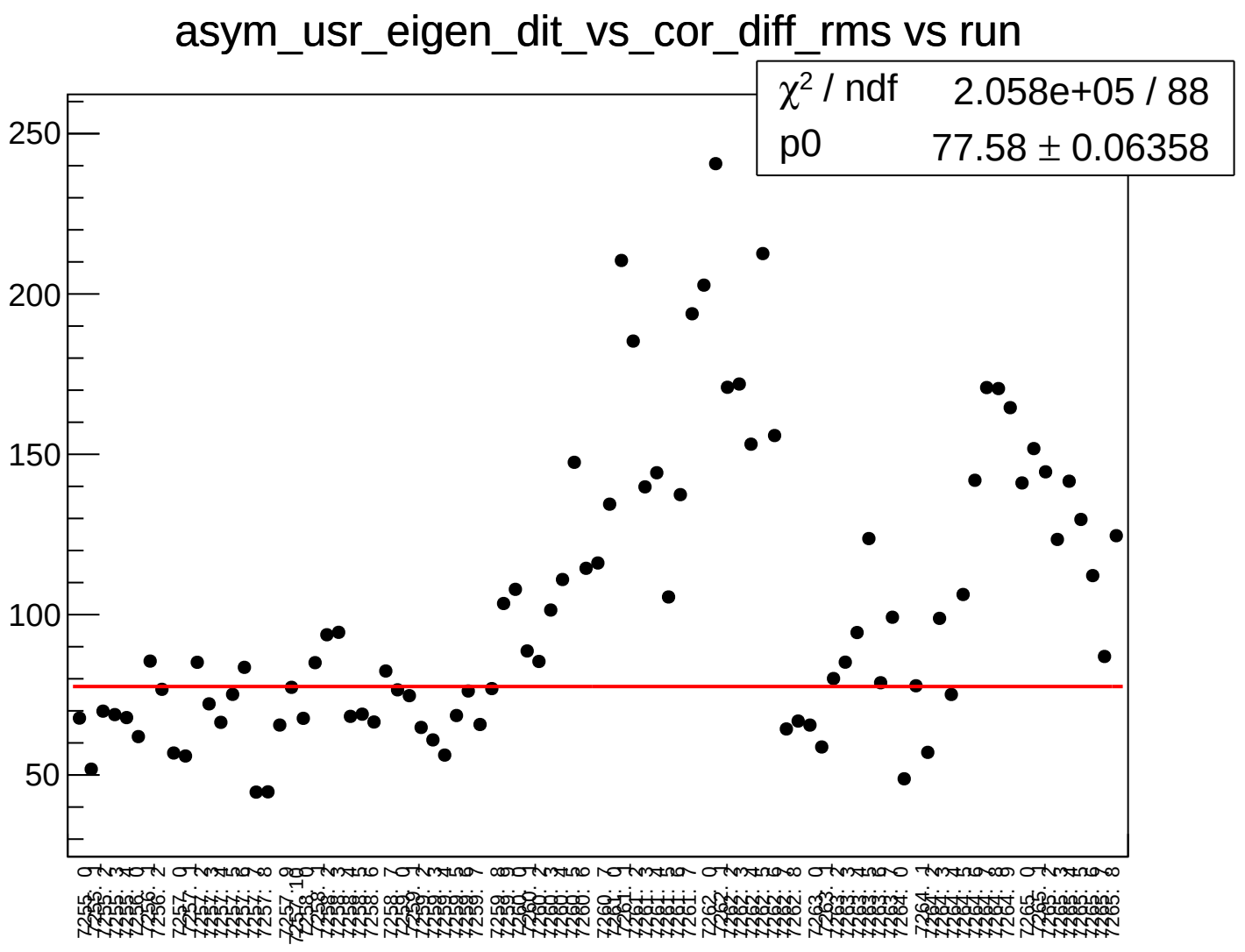

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.47 / 88
p0 3.522e−06 ± 6.947e−06
pull
Entries 89
Mean −575.5
Std Dev 0

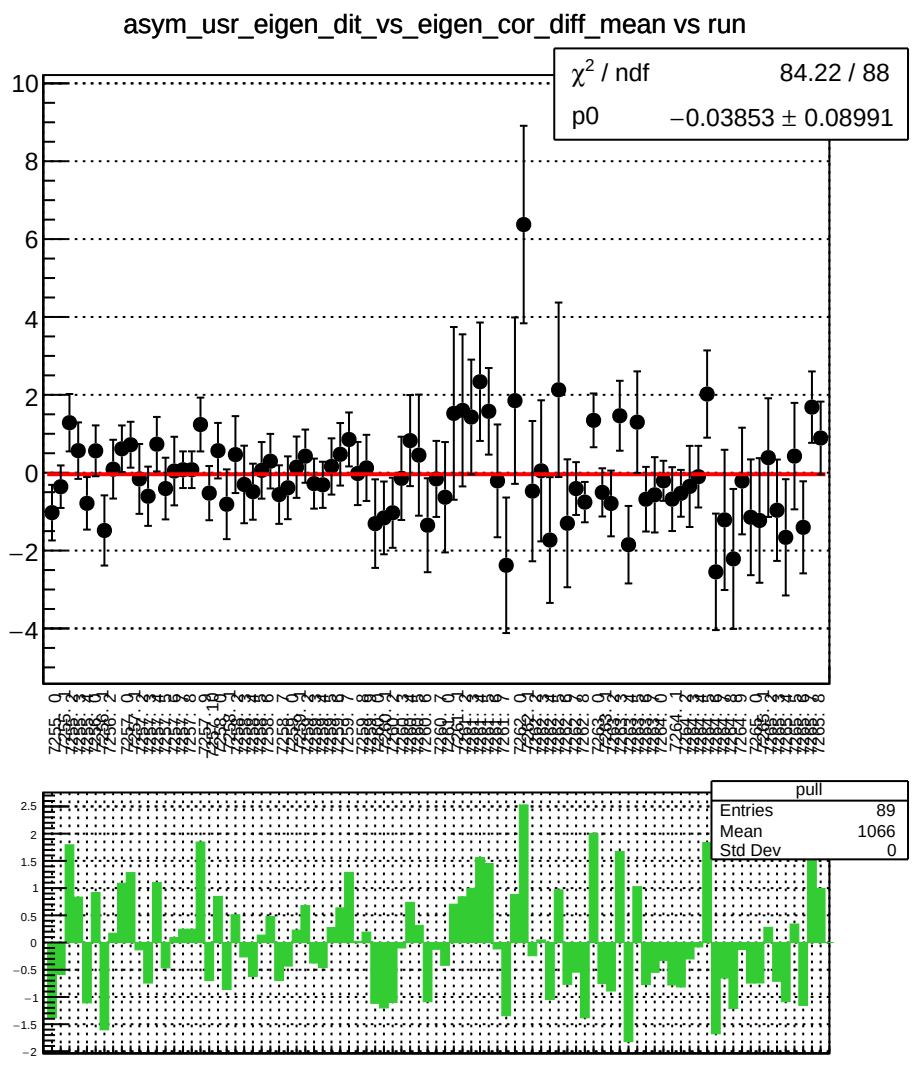

pull1D
Entries 89
Mean 0.004911
Std Dev 0.9684

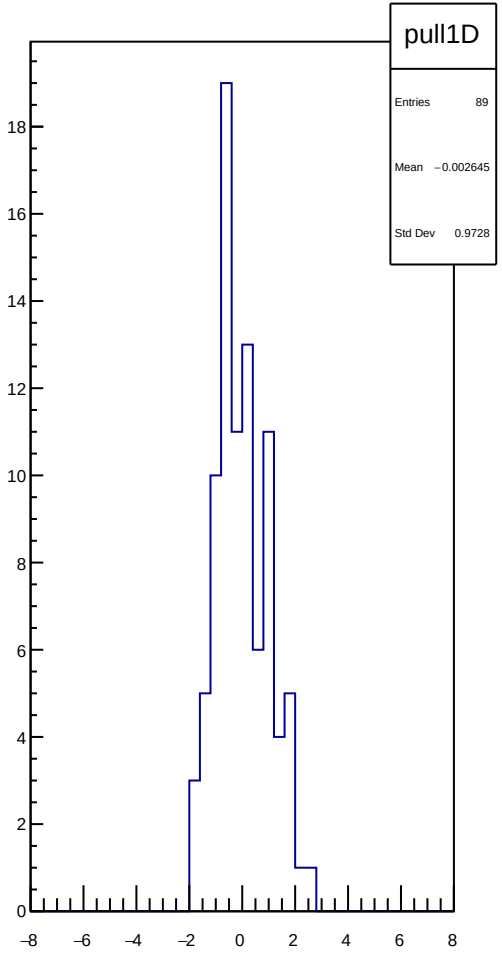

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4775 / 88
p0 0.006386 ± 4.912e−06
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056

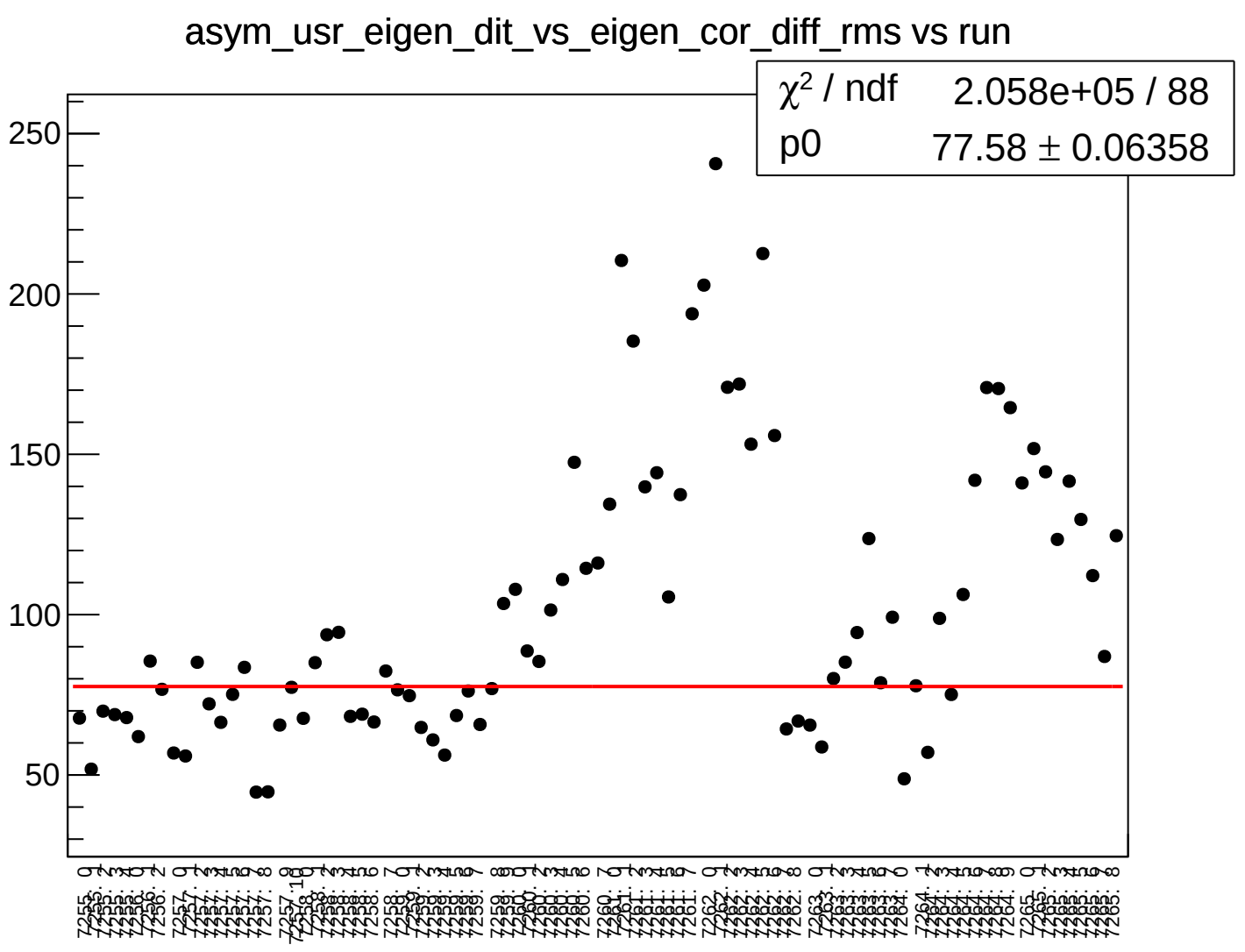

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.22 / 88
p0 −0.03853 ± 0.08991
pull
Entries 89
Mean 1066
Std Dev 0

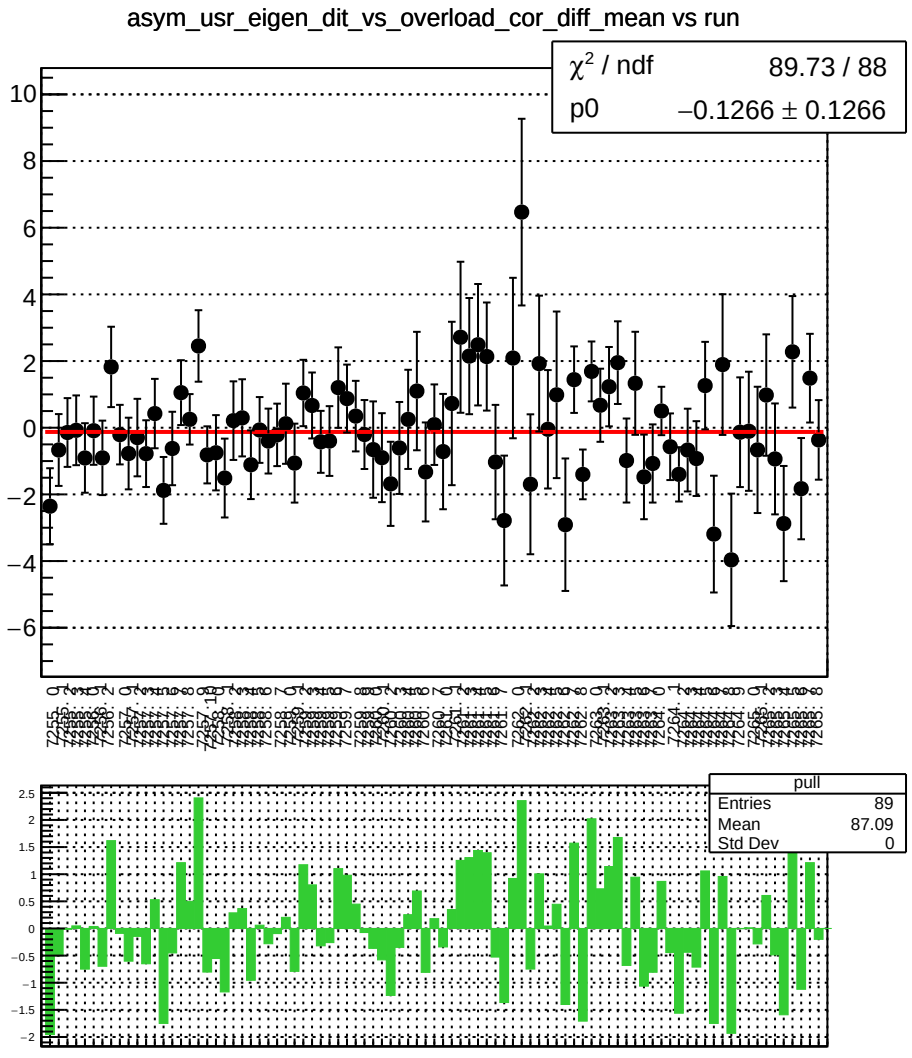

pull1D
Entries 89
Mean −0.002645
Std Dev 0.9728

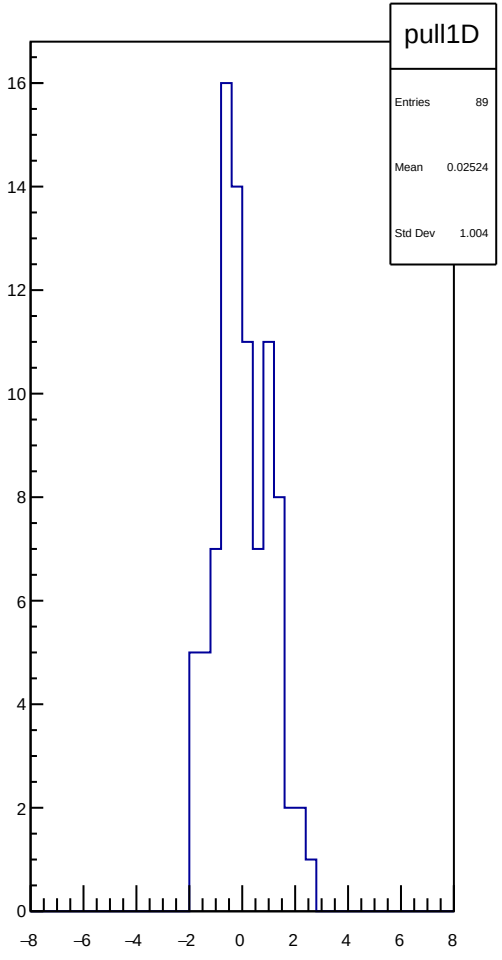

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.058e+05 / 88
p0 77.58 ± 0.06358
250
200
150
100
50

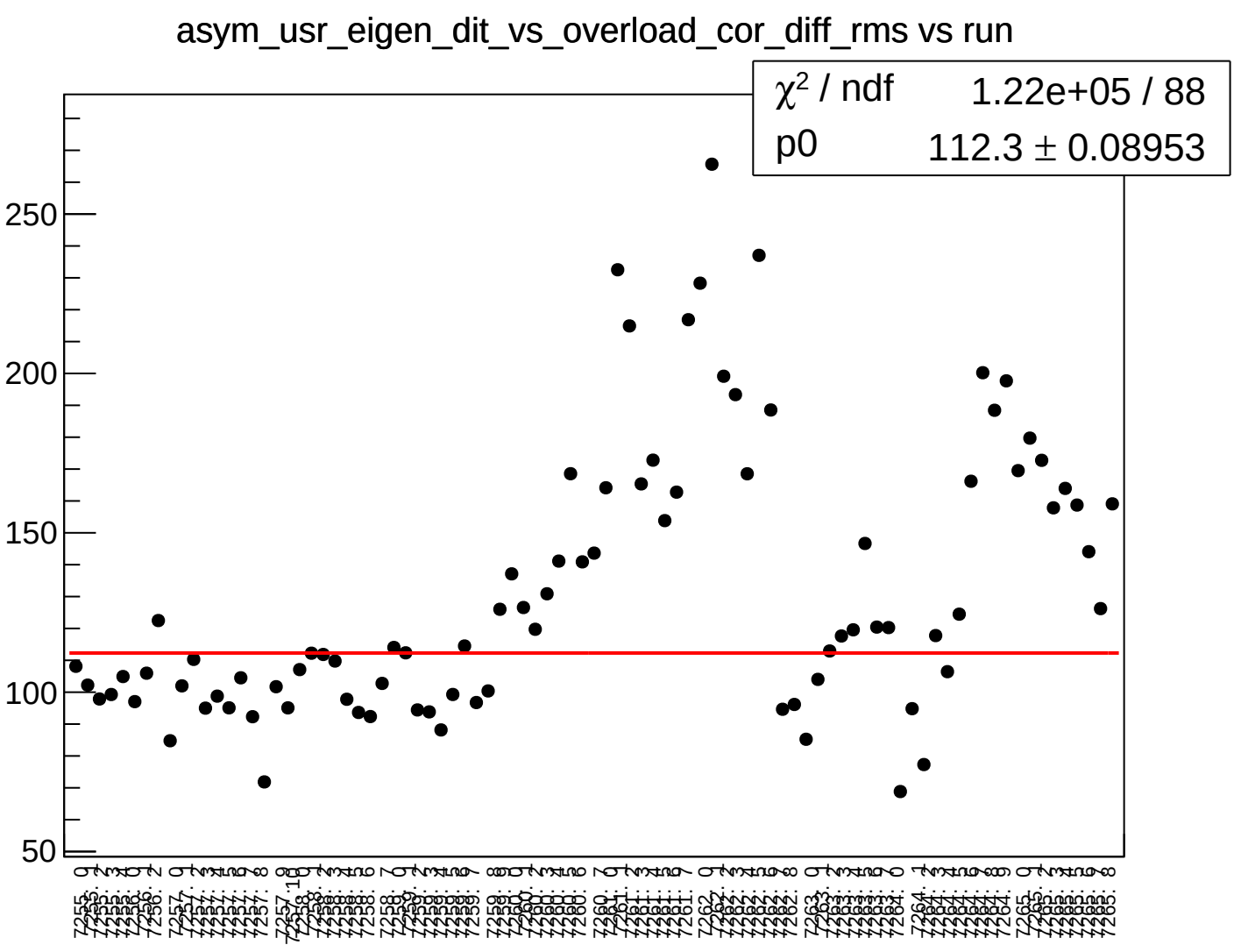

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.22 / 88
p0 −0.03853 ± 0.08991
pull
Entries 89
Mean 1066
Std Dev 0

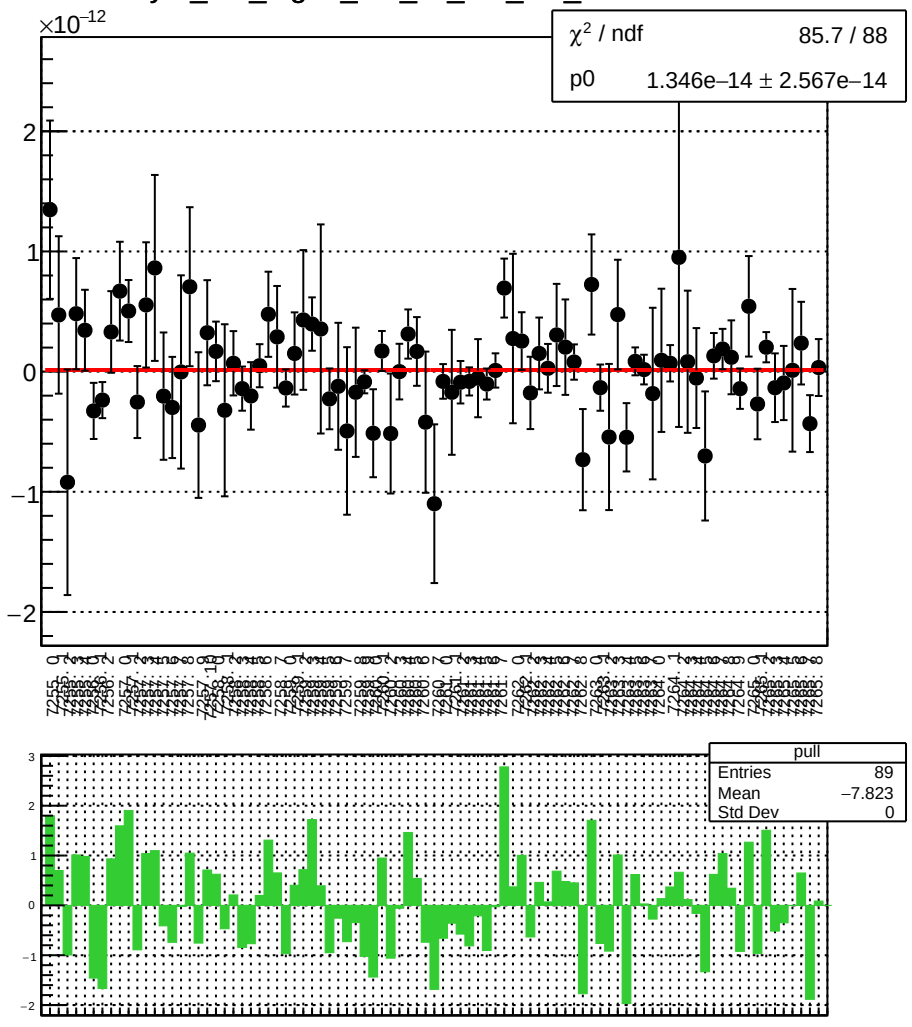

pull1D
Entries 89
Mean −0.002645
Std Dev 0.9728

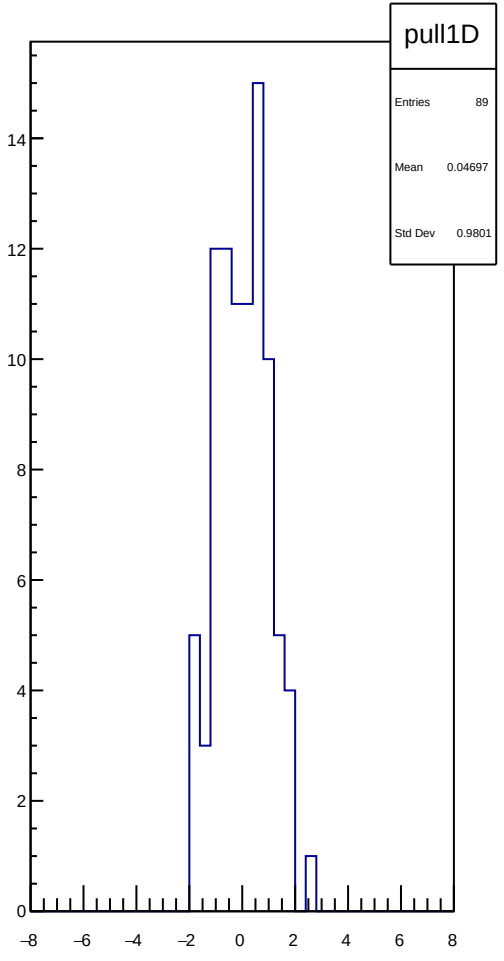

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.058e+05 / 88
p0 77.58 ± 0.06358
250
200
150
100
50

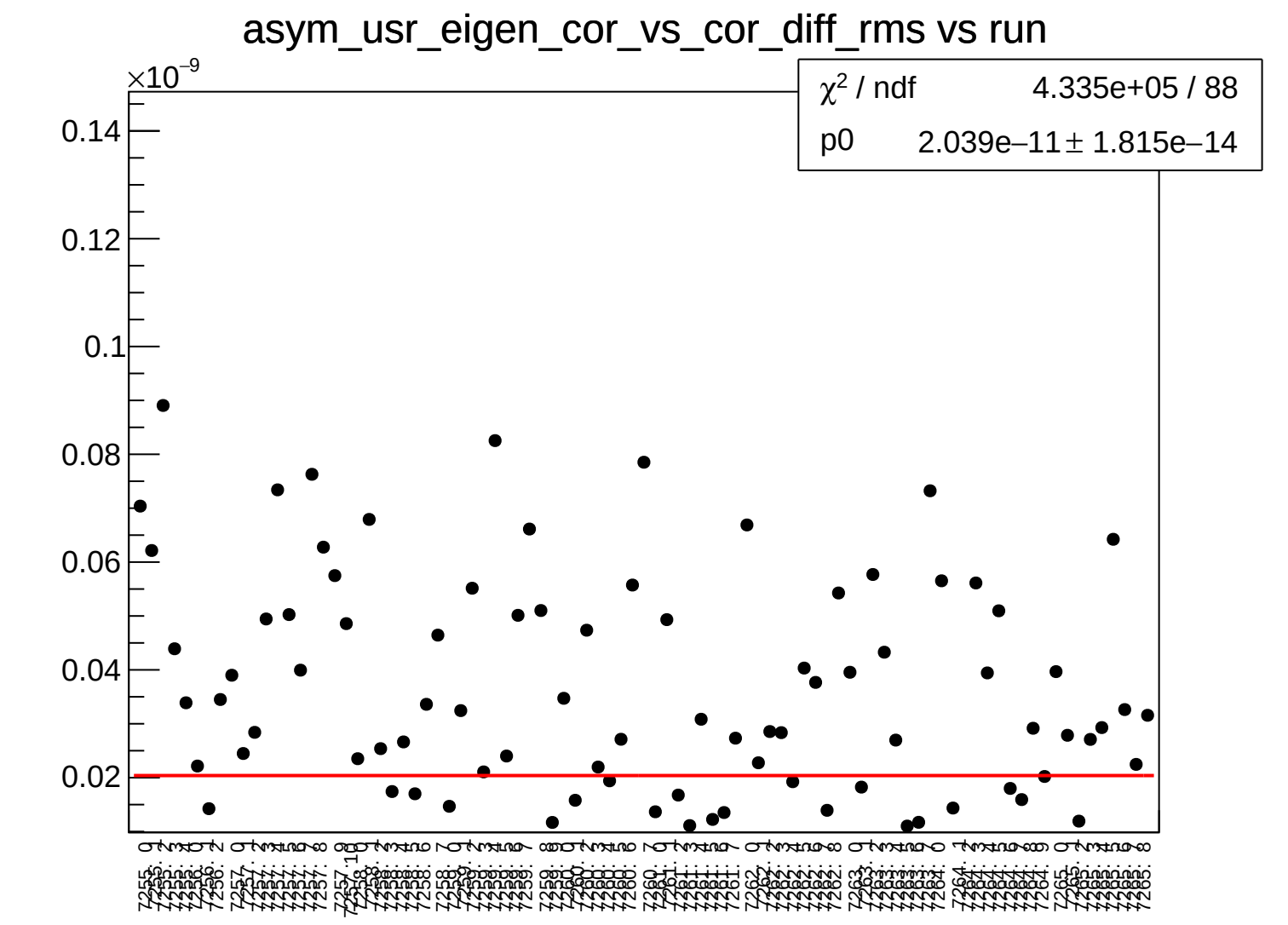

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 89.73 / 88
p0 −0.1266 ± 0.1266
pull
Entries 89
Mean 87.09
Std Dev 0

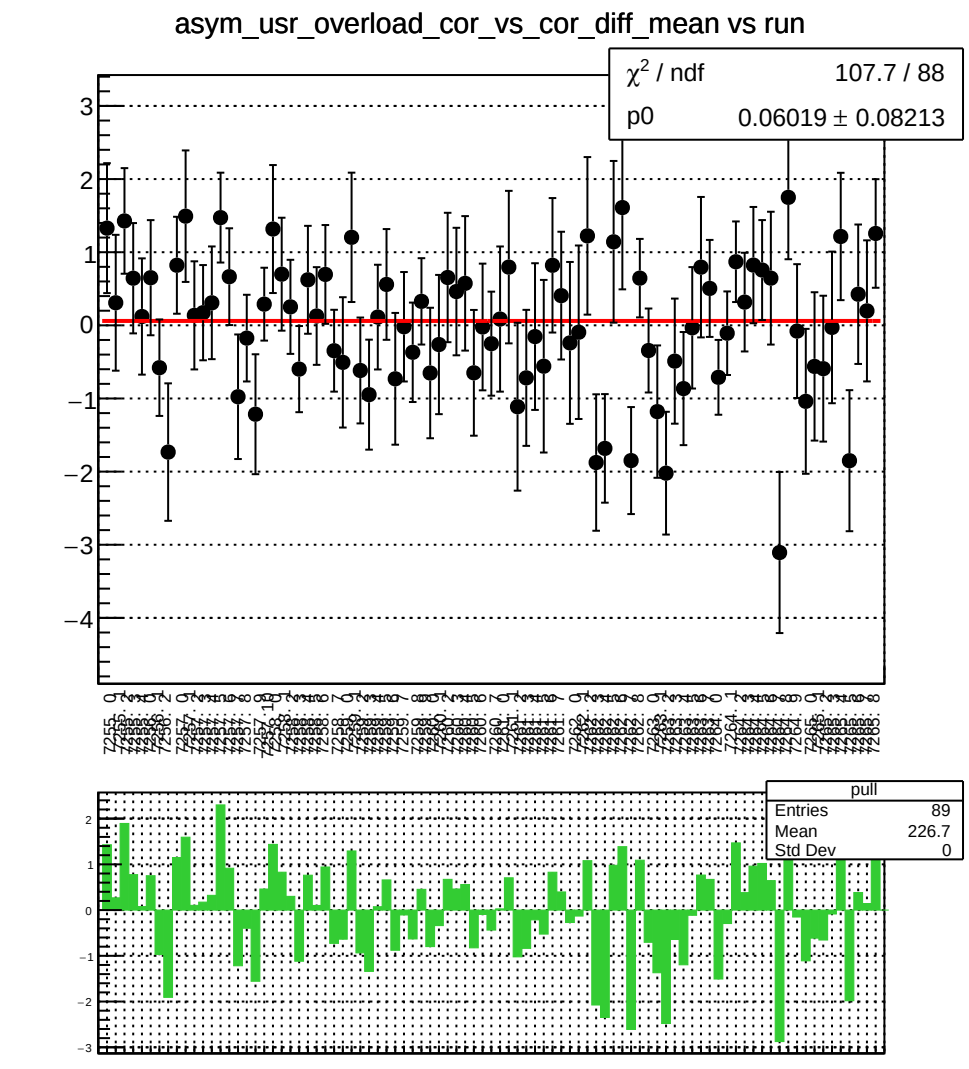

pull1D
Entries 89
Mean 0.02524
Std Dev 1.004

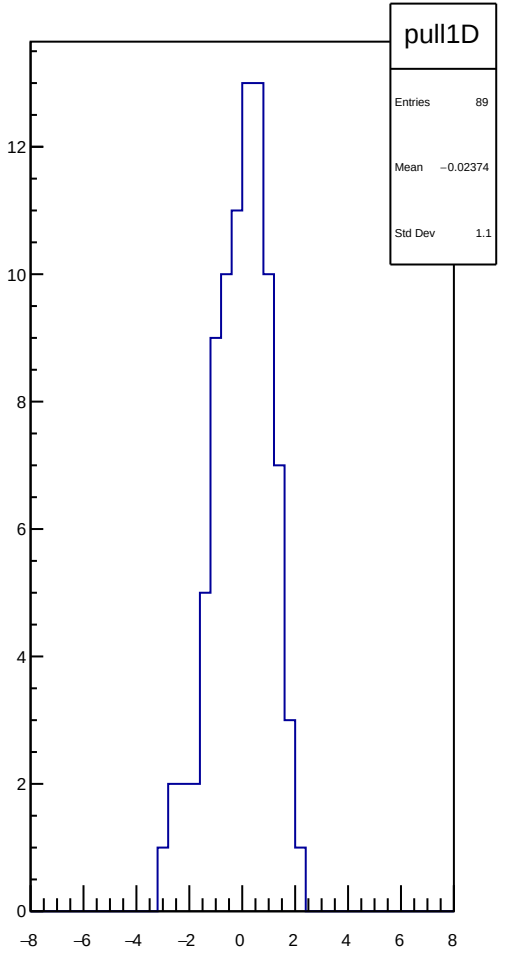

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.22e+05 / 88
p0 112.3 ± 0.08953
250
200
150
100
50

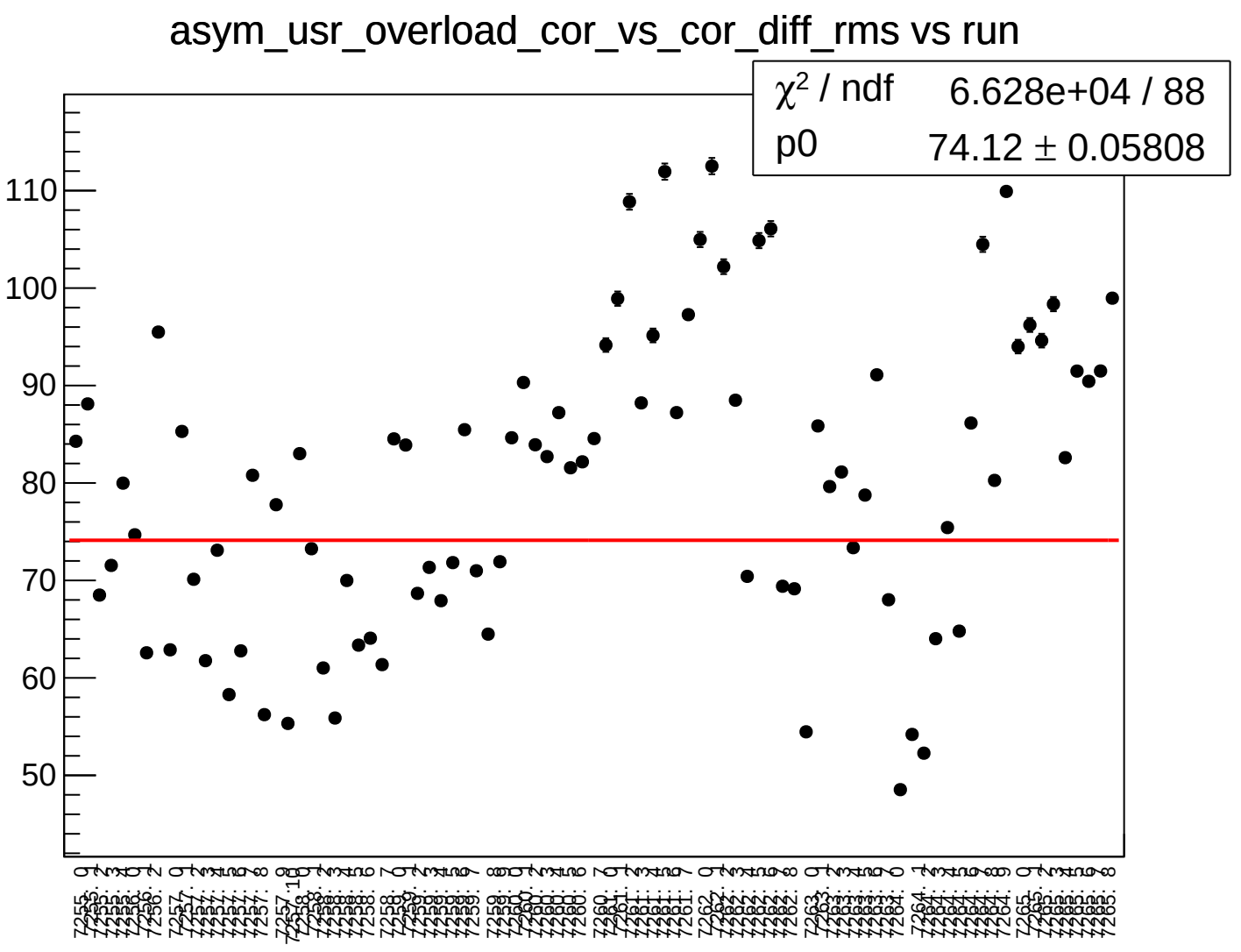

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.7 / 88
p0 1.346e−14 ± 2.567e−14
pull
Entries 89
Mean −7.823
Std Dev 0

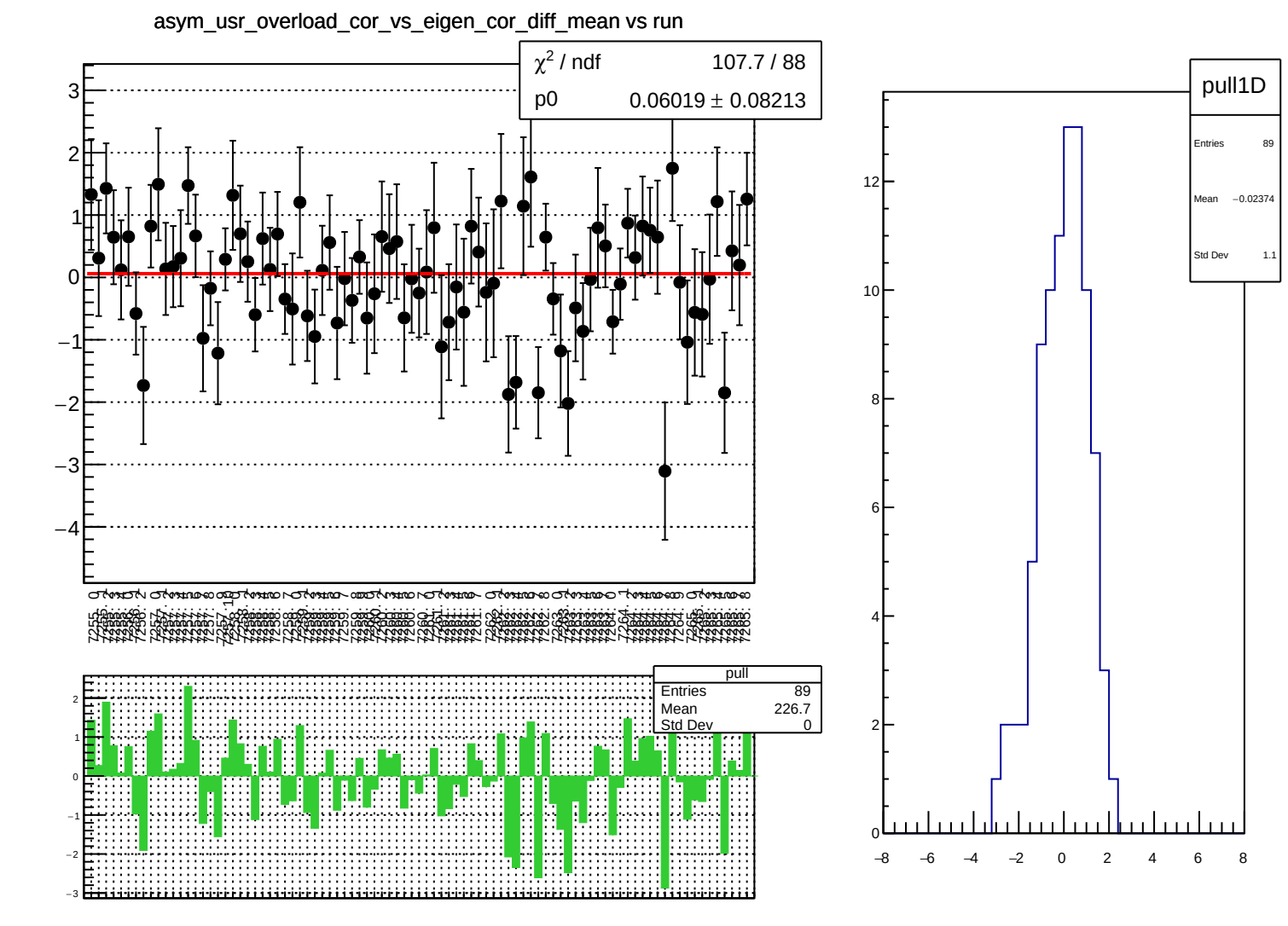

pull1D
Entries 89
Mean 0.04697
Std Dev 0.9801

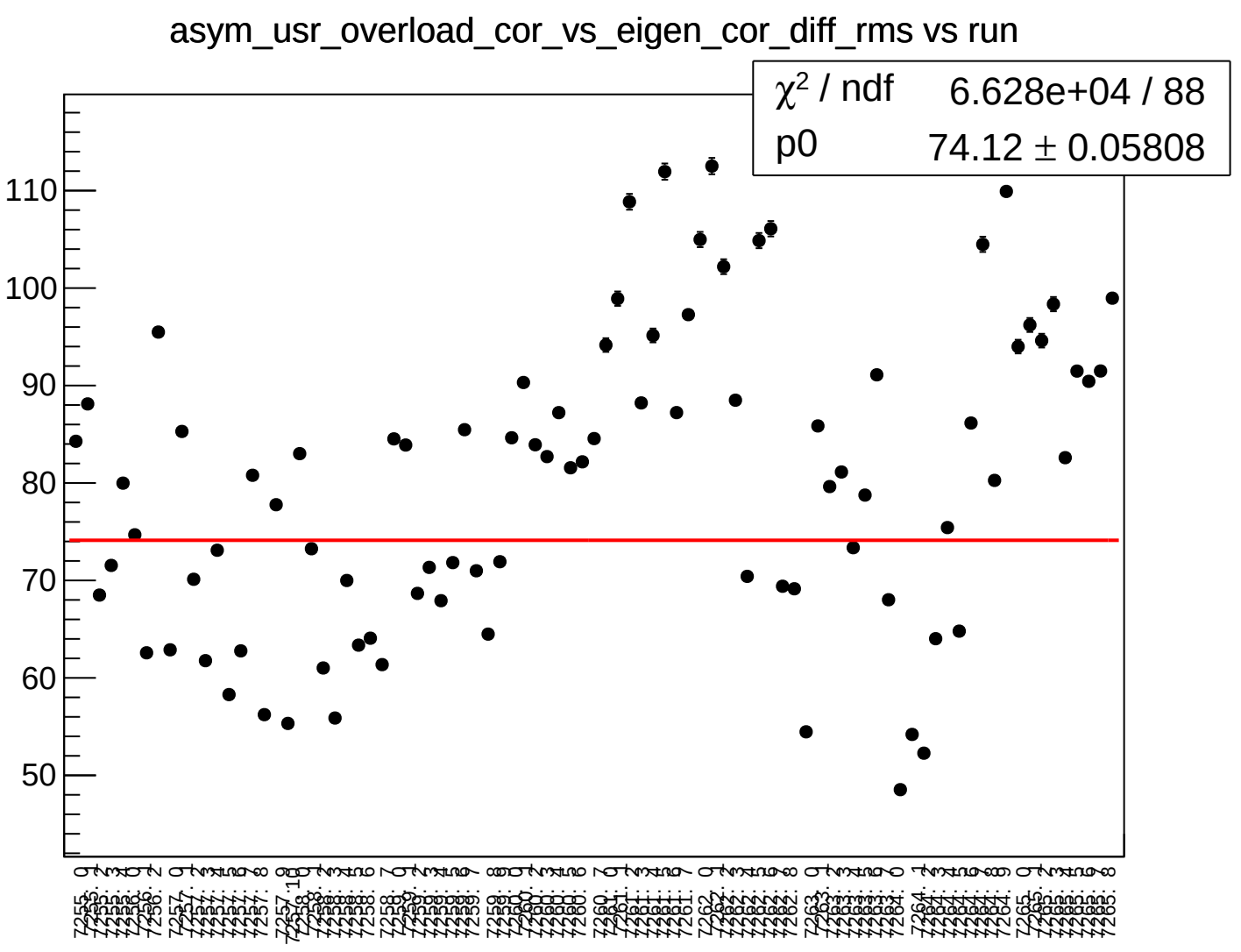

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.335e+05 / 88
p0 2.039e−11 ± 1.815e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

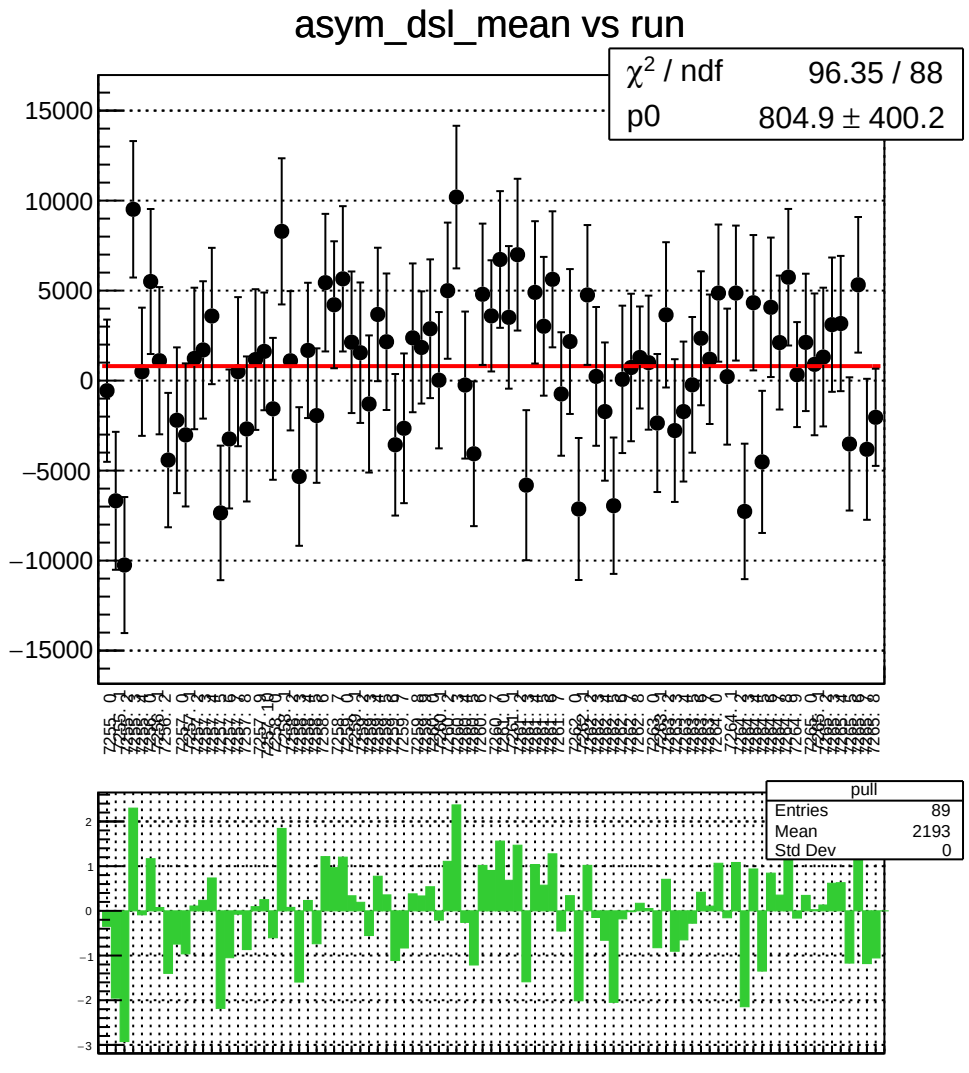

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 107.7 / 88
p0 0.06019 ± 0.08213
pull
Entries 89
Mean 226.7
Std Dev 0

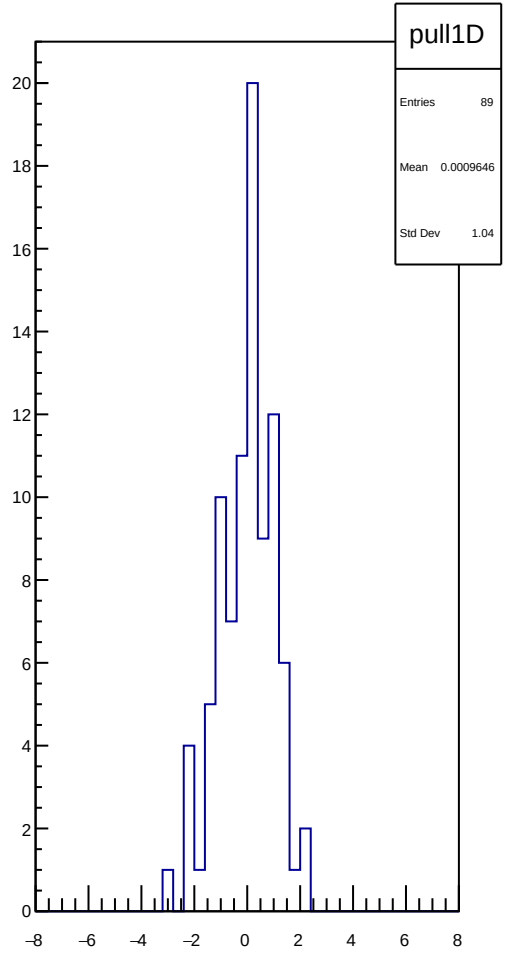

pull1D
Entries 89
Mean −0.02374
Std Dev 1.1

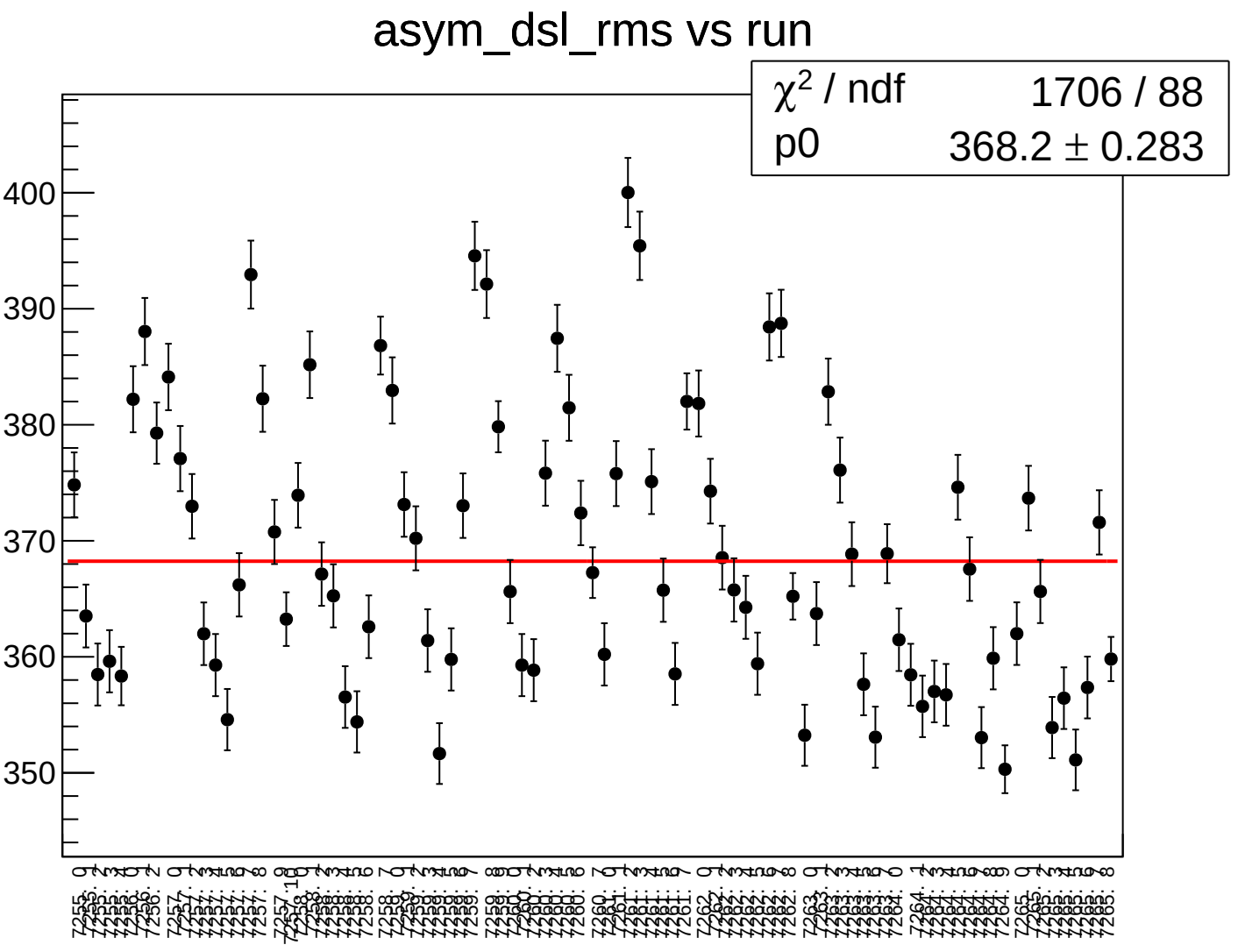

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 6.628e+04 / 88
p0 74.12 ± 0.05808
110
100
90
80
70
60
50

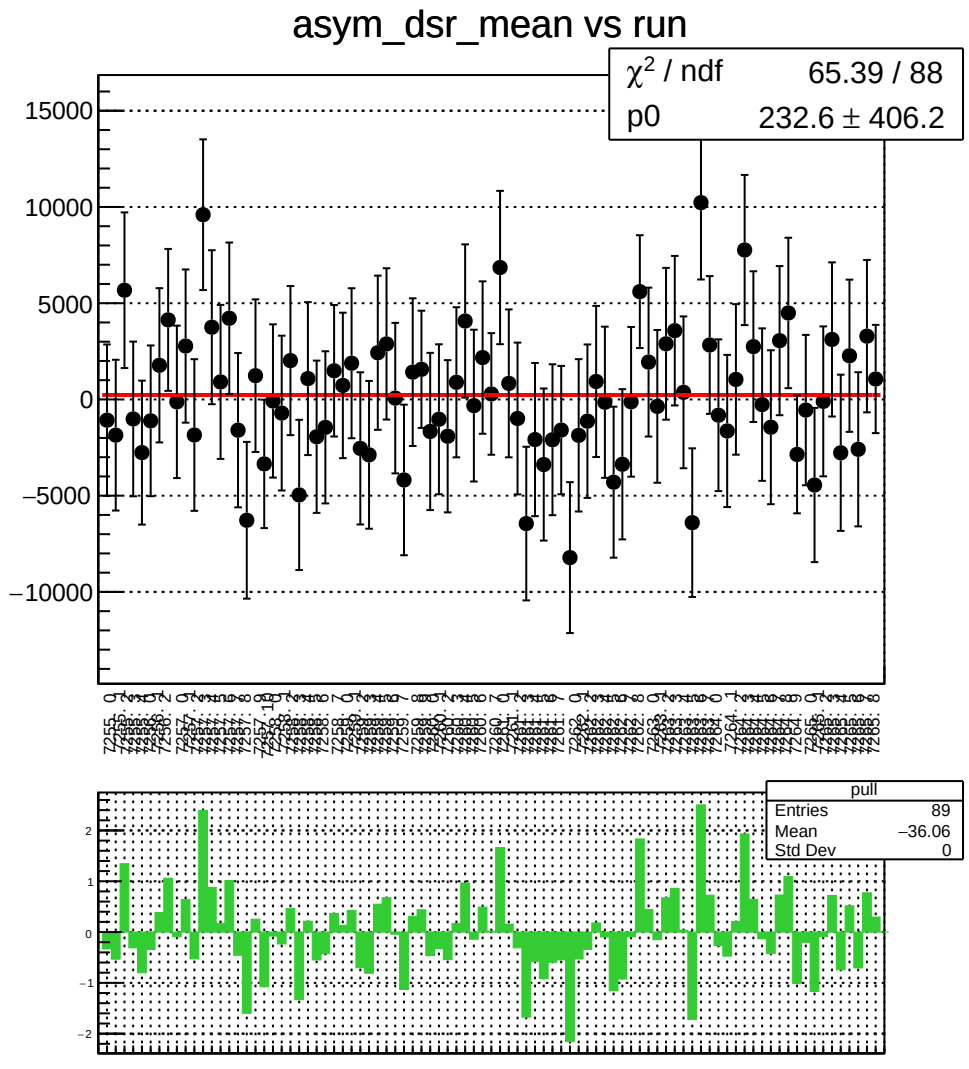

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.7 / 88
p0 0.06019 ± 0.08213
pull
Entries 89
Mean 226.7
Std Dev 0
pull1D
Entries 89
Mean −0.02374
Std Dev 1.1

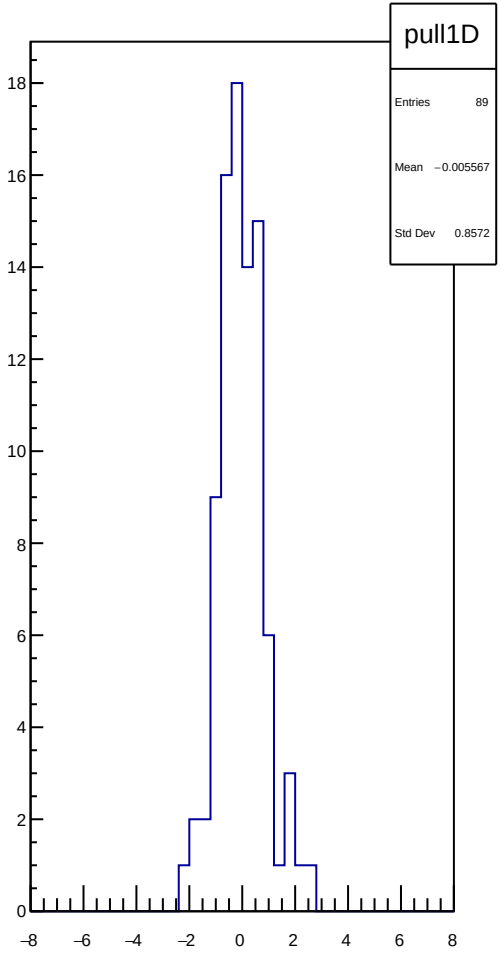

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.628e+04 / 88
p0 74.12 ± 0.05808
110
100
90
80
70
60
50

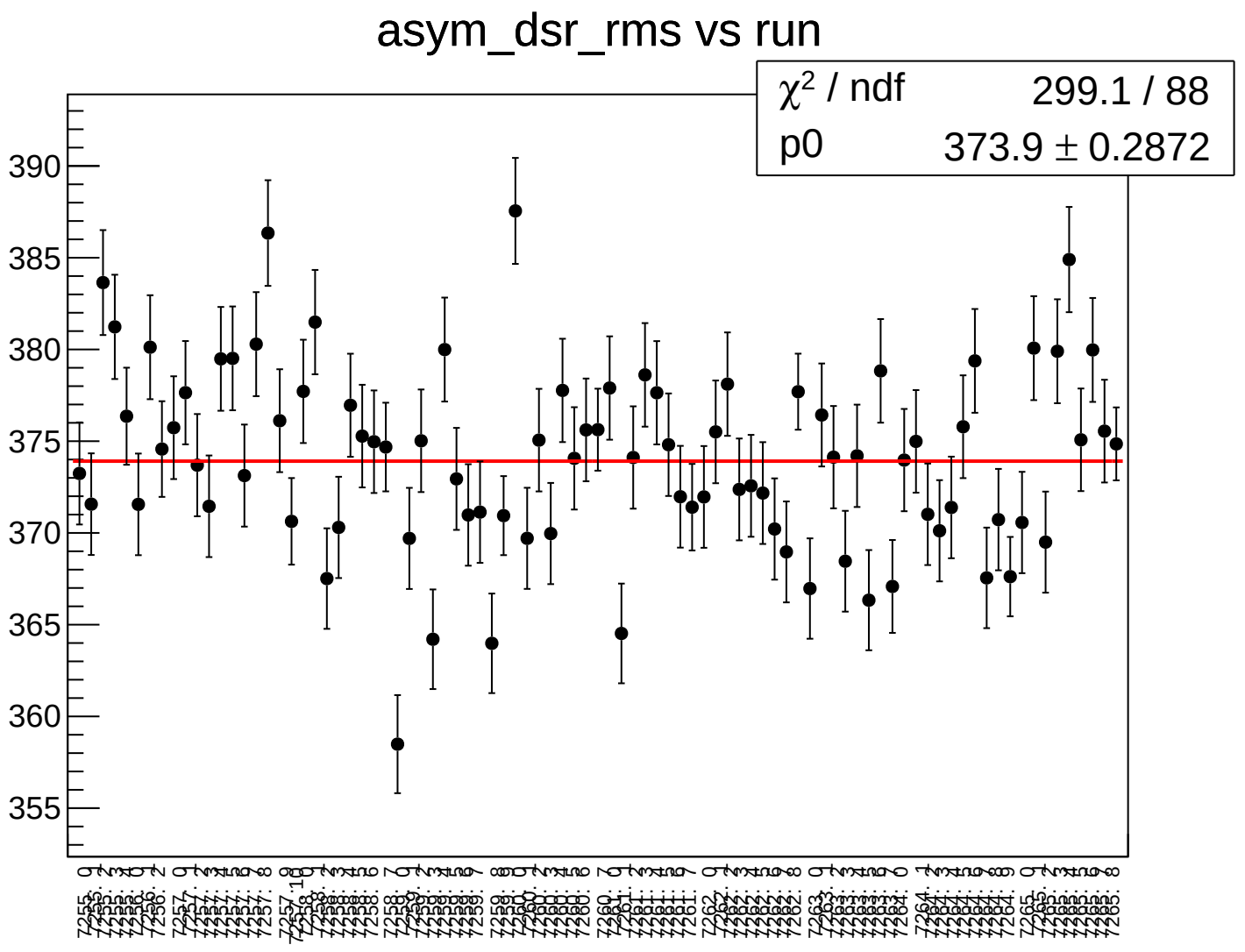

asym_dsl_mean vs run
χ² / ndf 96.35 / 88
p0 804.9 ± 400.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 2193
Std Dev 0
2
1
0
−1
−2
−3

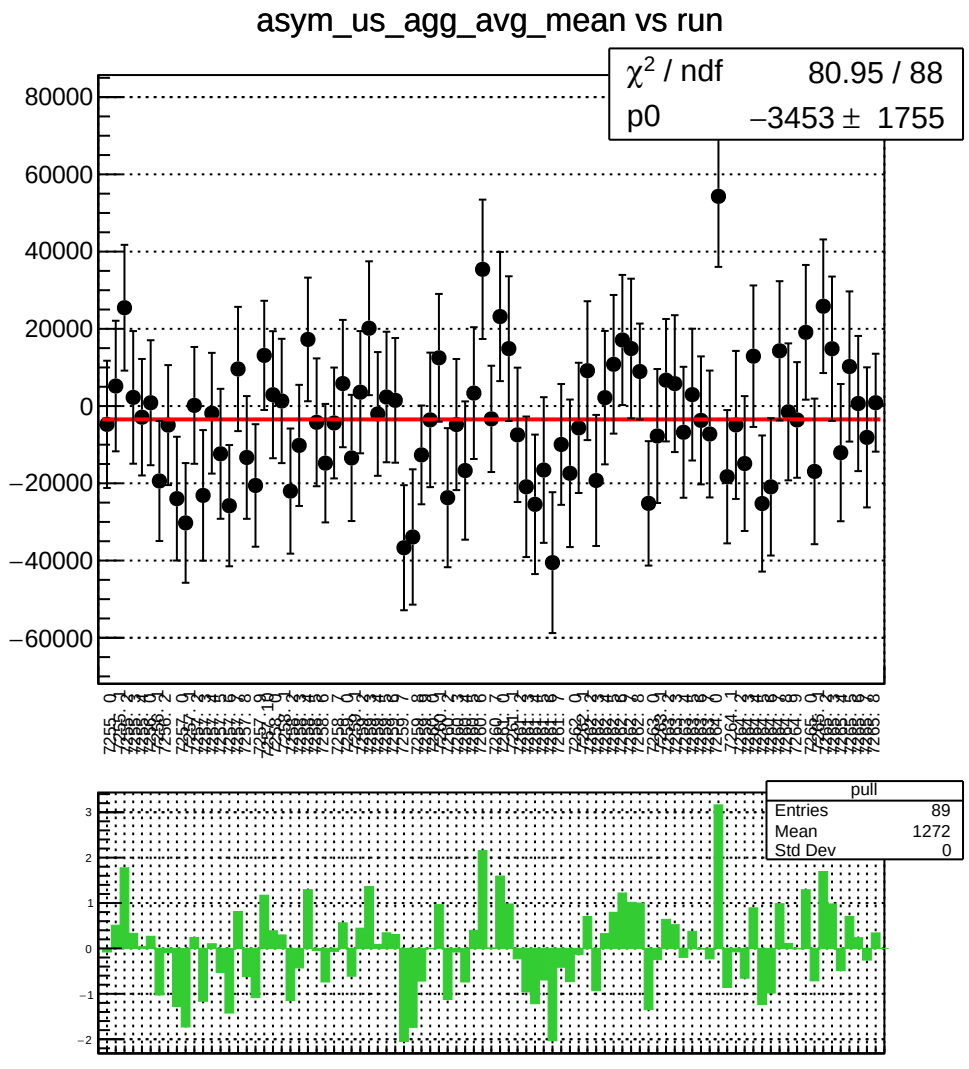

pull1D
Entries 89
Mean 0.0009646
Std Dev 1.04
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

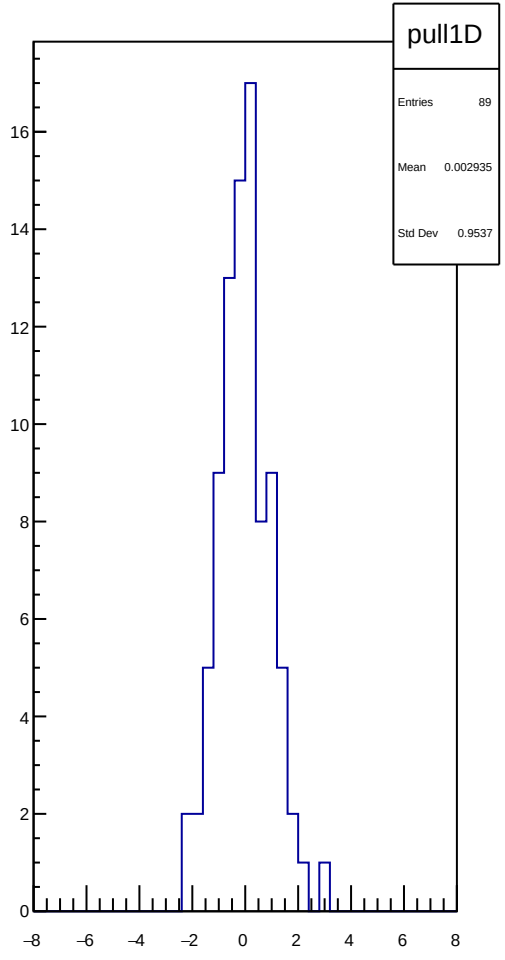

asym_dsl_rms vs run
χ^2 / ndf 1706 / 88
p0 368.2 ± 0.283
400
390
380
370
360
350

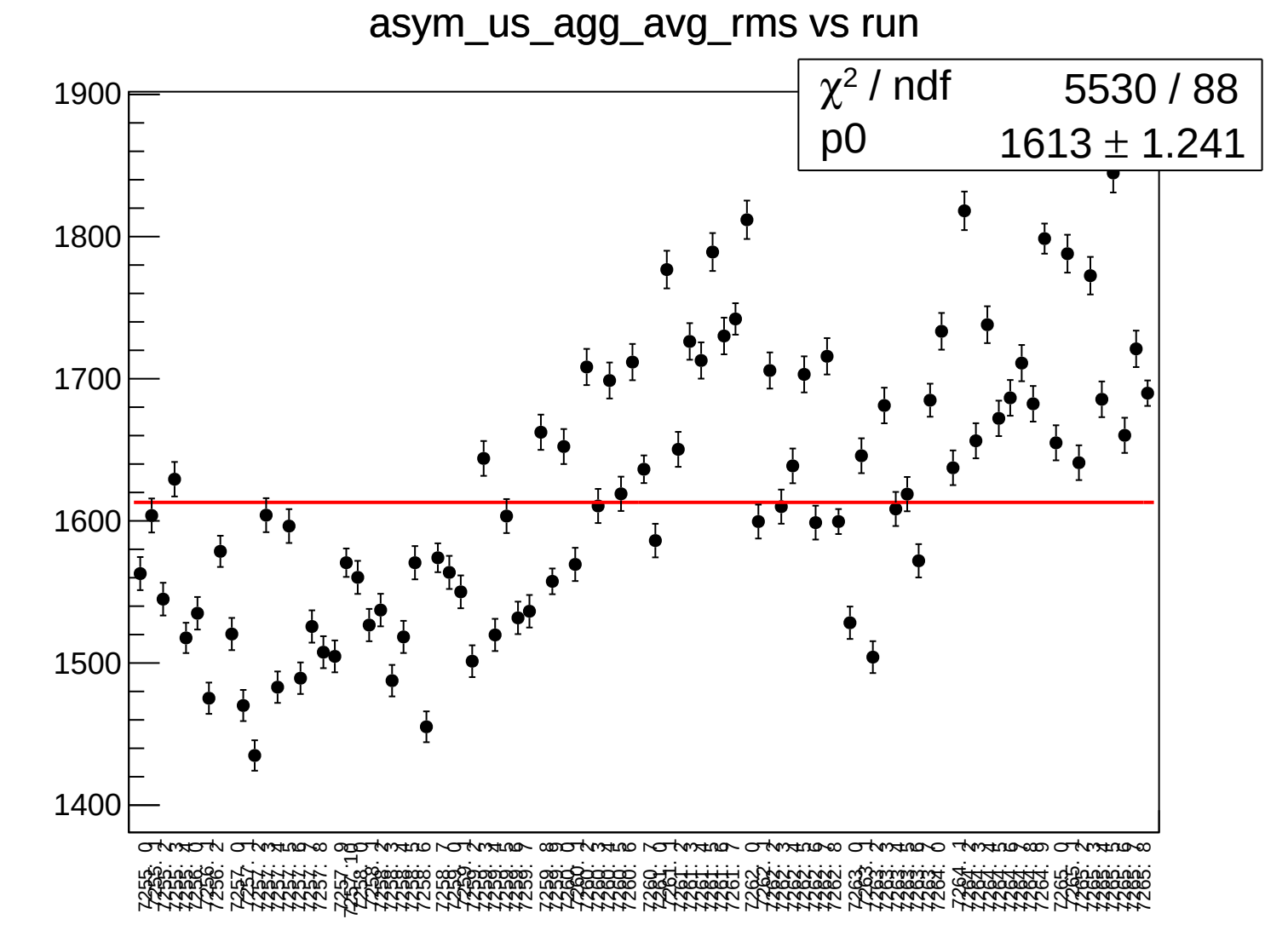

asym_dsr_mean vs run
χ² / ndf 65.39 / 88
p0 232.6 ± 406.2
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −36.06
Std Dev 0
2
1
0
−1
−2

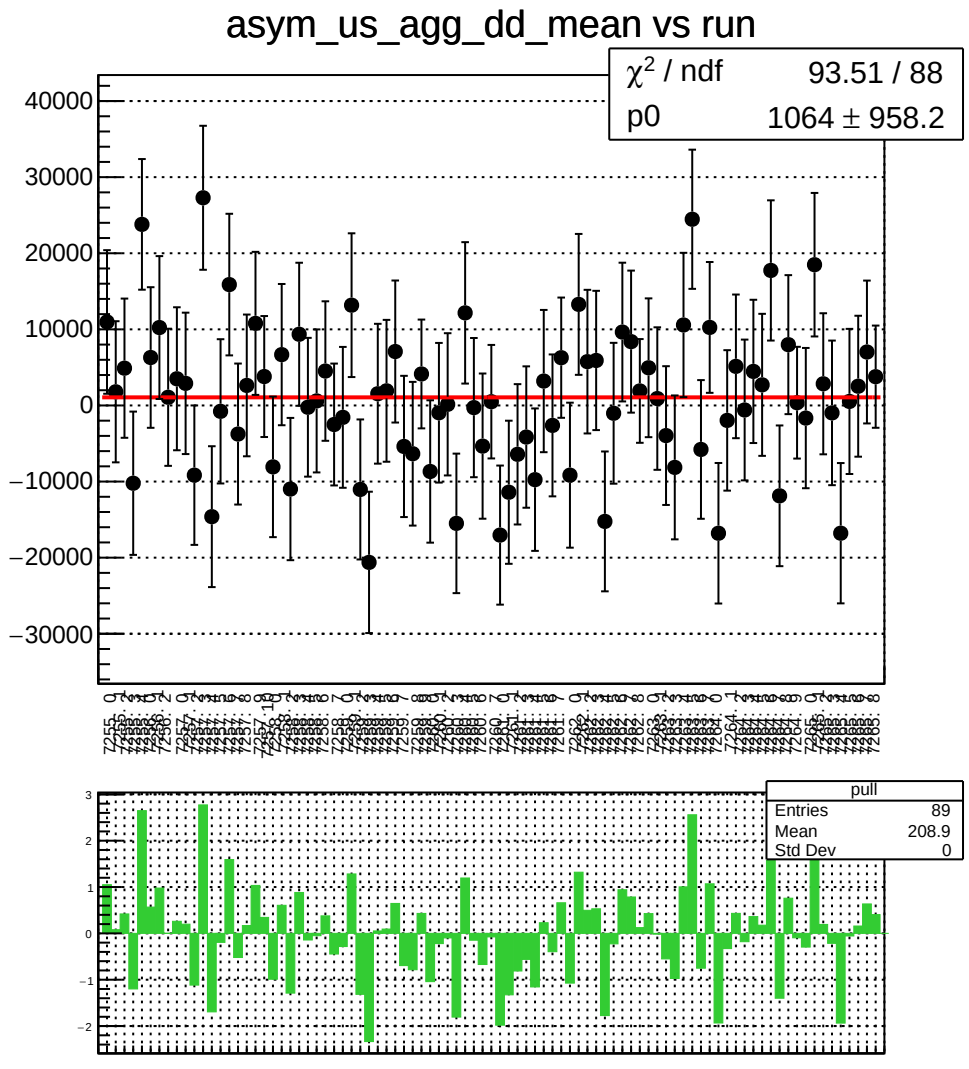

pull1D
Entries 89
Mean −0.005567
Std Dev 0.8572
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

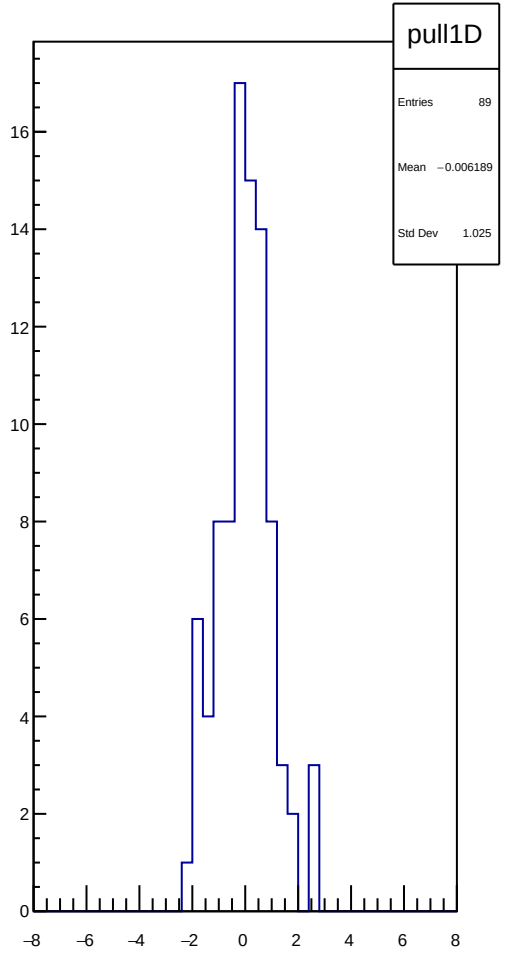

asym_dsr_rms vs run
χ² / ndf 299.1 / 88
p0 373.9 ± 0.2872
390
385
380
375
370
365
360
355

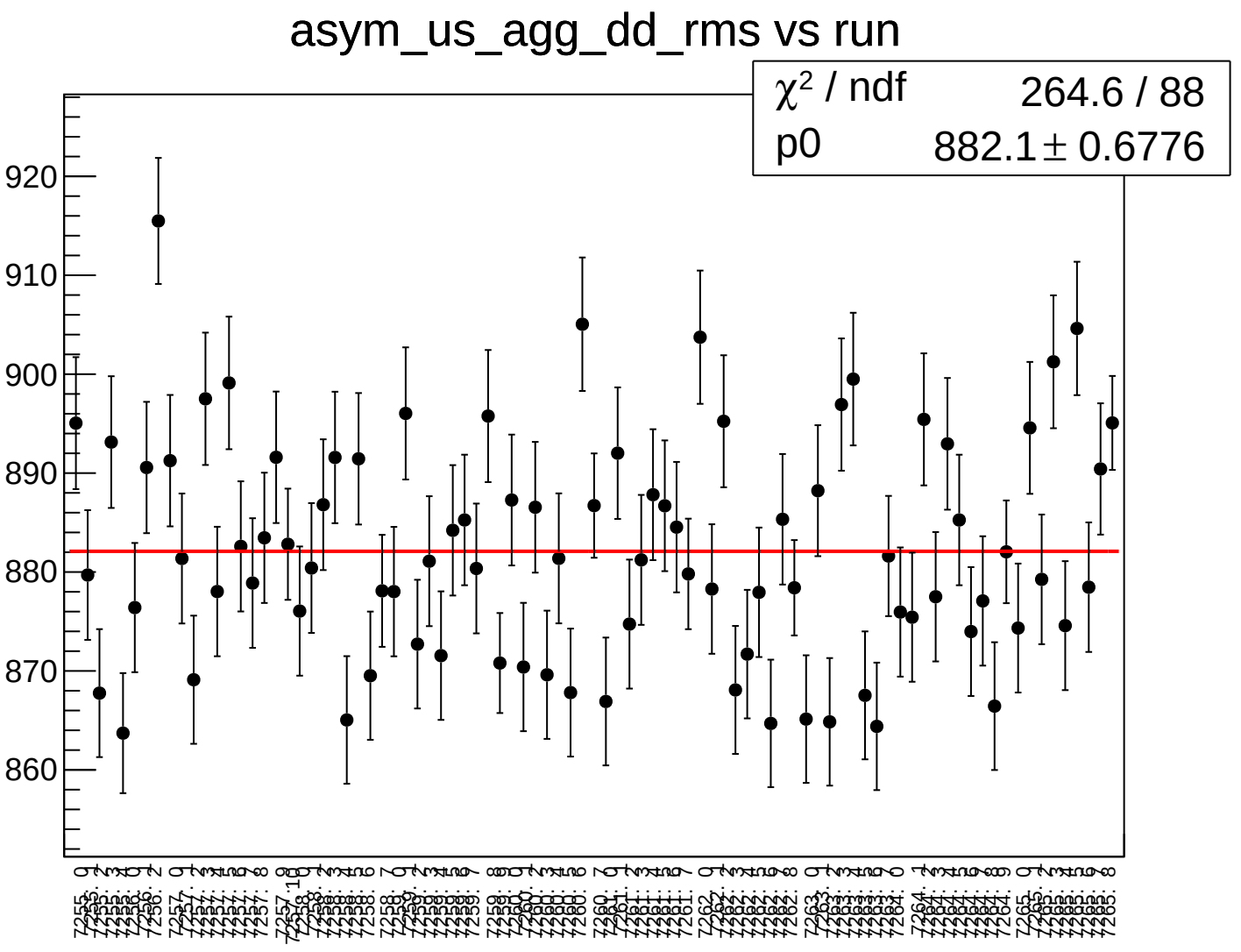

asym_us_agg_avg_mean vs run
χ² / ndf 80.95 / 88
p0 −3453 ± 1755
pull
Entries 89
Mean 1272
Std Dev 0

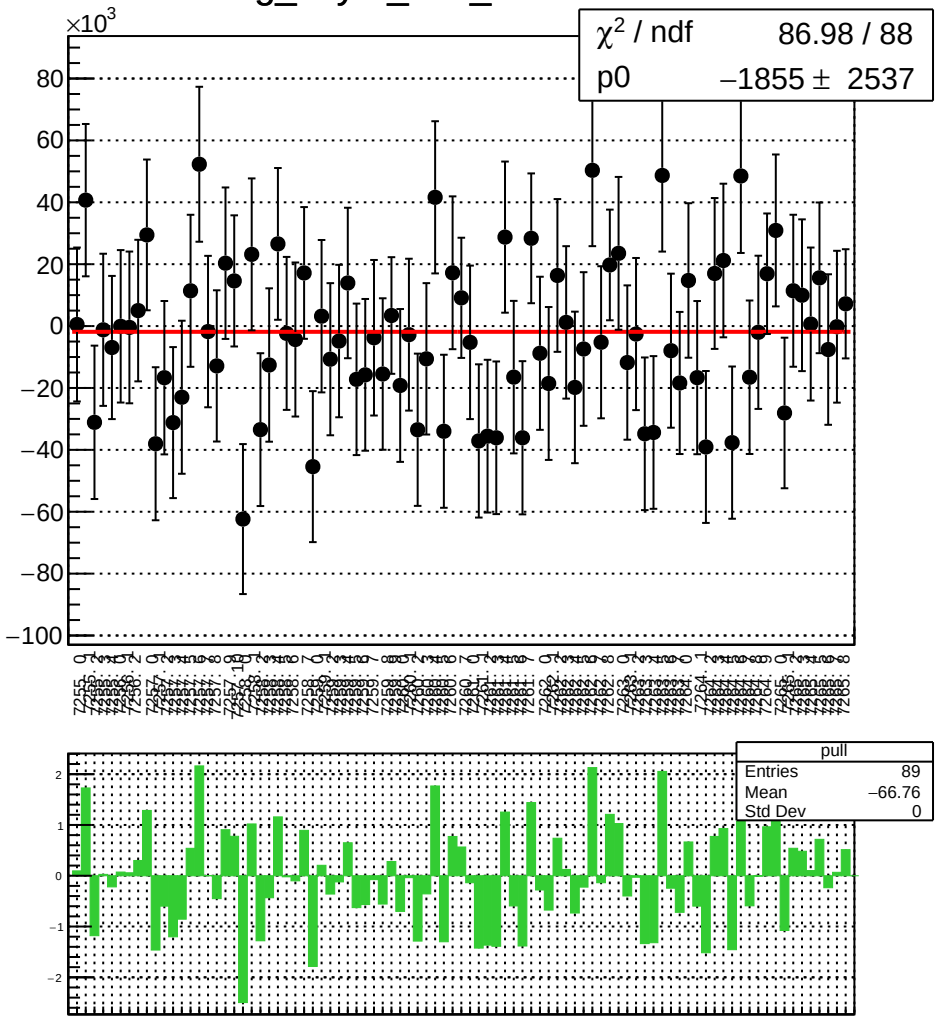

pull1D
Entries 89
Mean 0.002935
Std Dev 0.9537

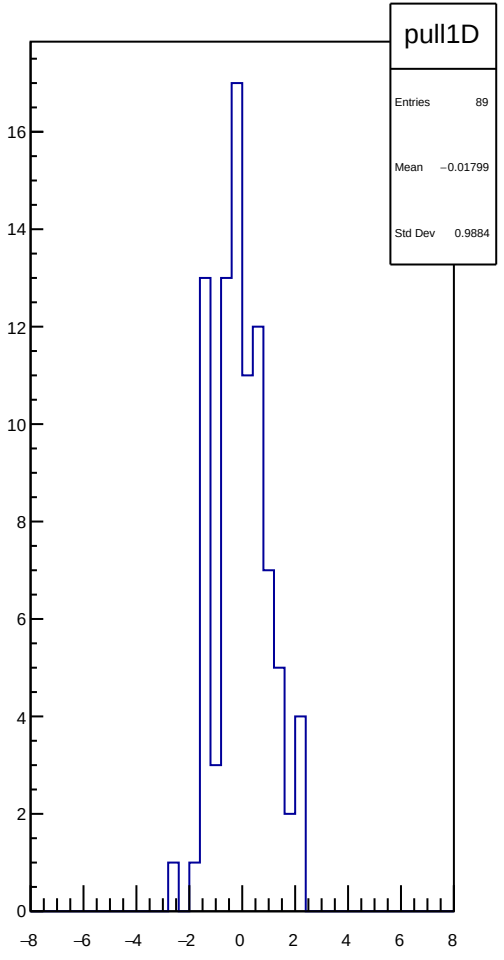

asym_us_agg_avg_rms vs run
χ² / ndf 5530 / 88
p0 1613 ± 1.241
1900
1800
1700
1600
1500
1400

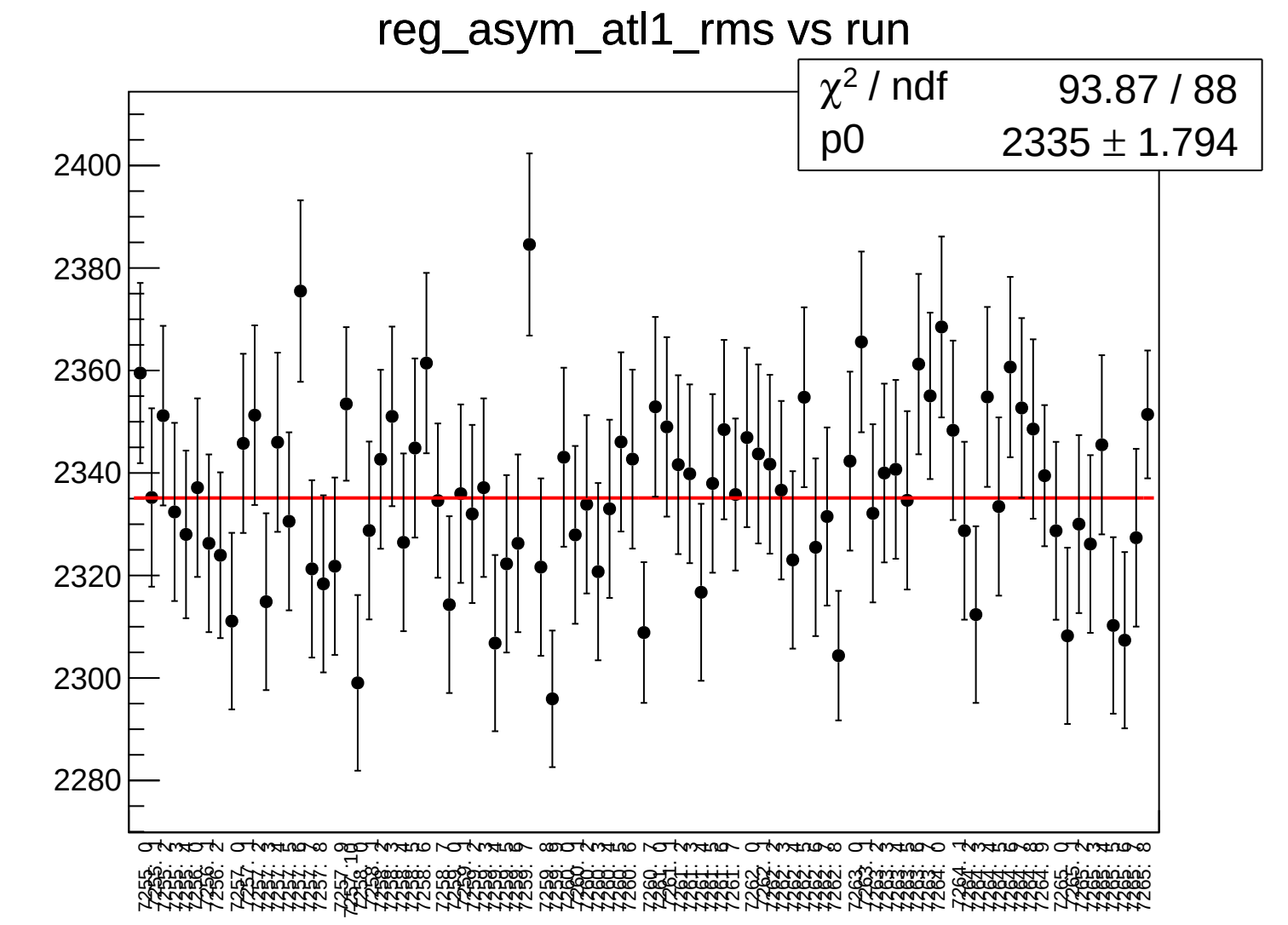

asym_us_agg_dd_mean vs run
χ² / ndf 93.51 / 88
p0 1064 ± 958.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 208.9
Std Dev 0
3
2
1
0
−1
−2

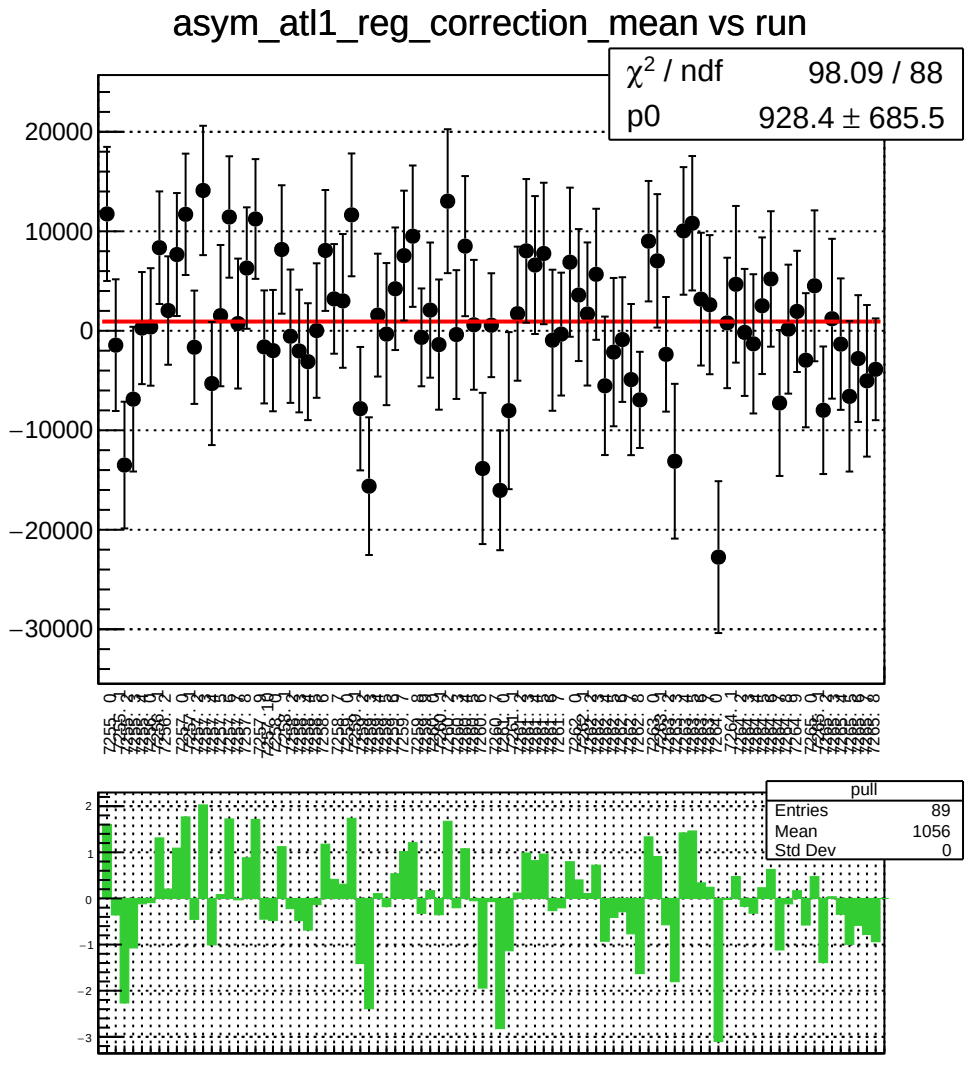

pull1D
Entries 89
Mean −0.006189
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

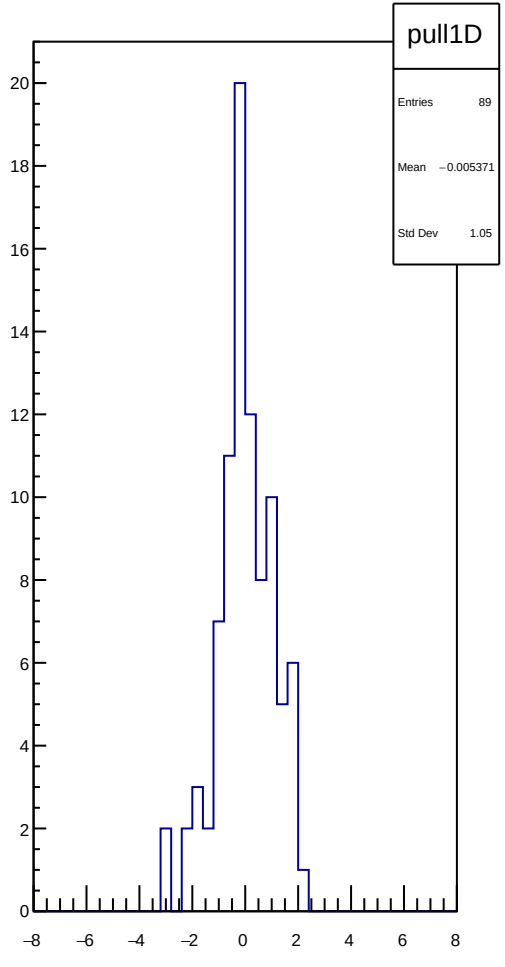

asym_us_agg_dd_rms vs run
χ² / ndf 264.6 / 88
p0 882.1 ± 0.6776
920
910
900
890
880
870
860

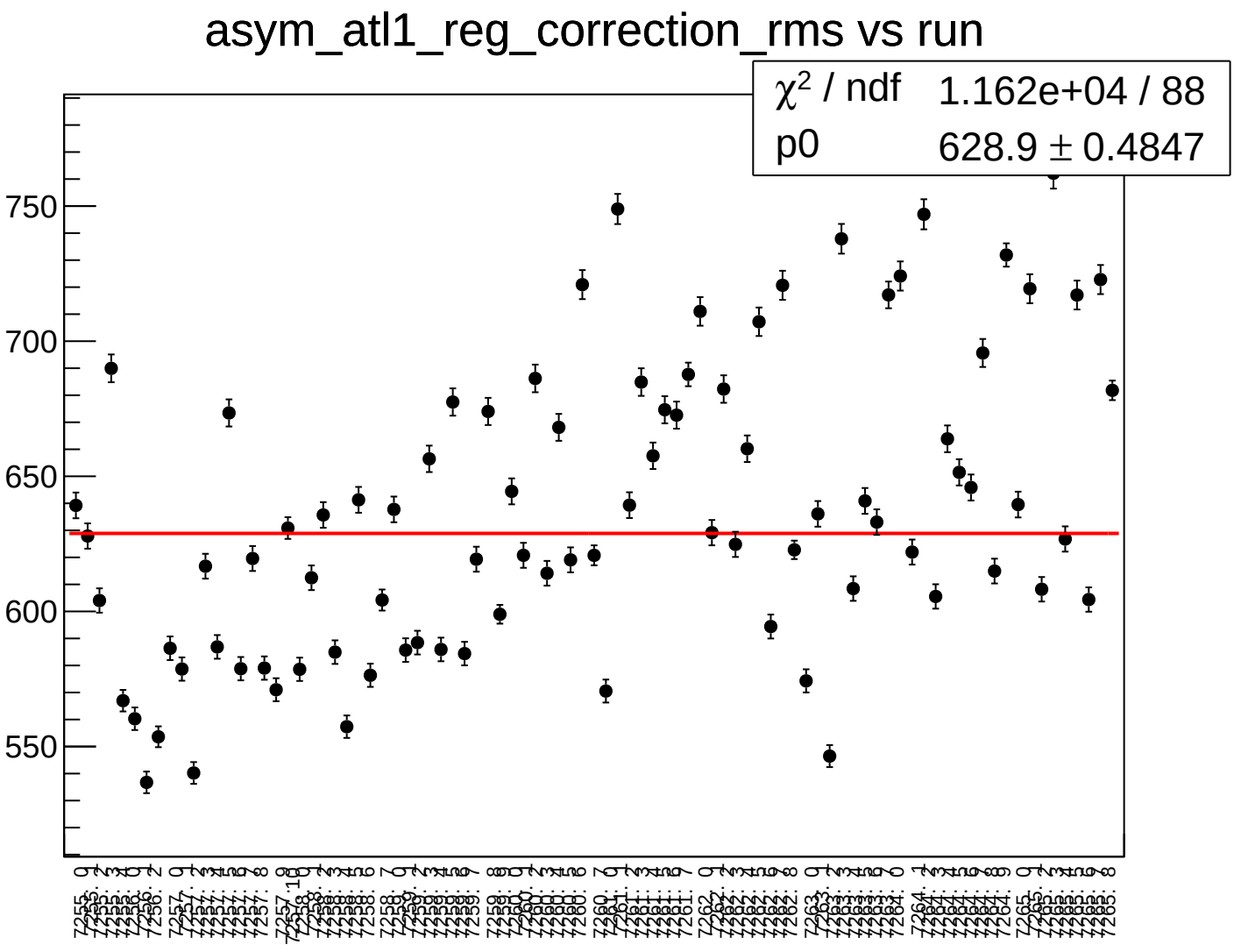

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 86.98 / 88
p0 −1855 ± 2537
pull
Entries 89
Mean −66.76
Std Dev 0

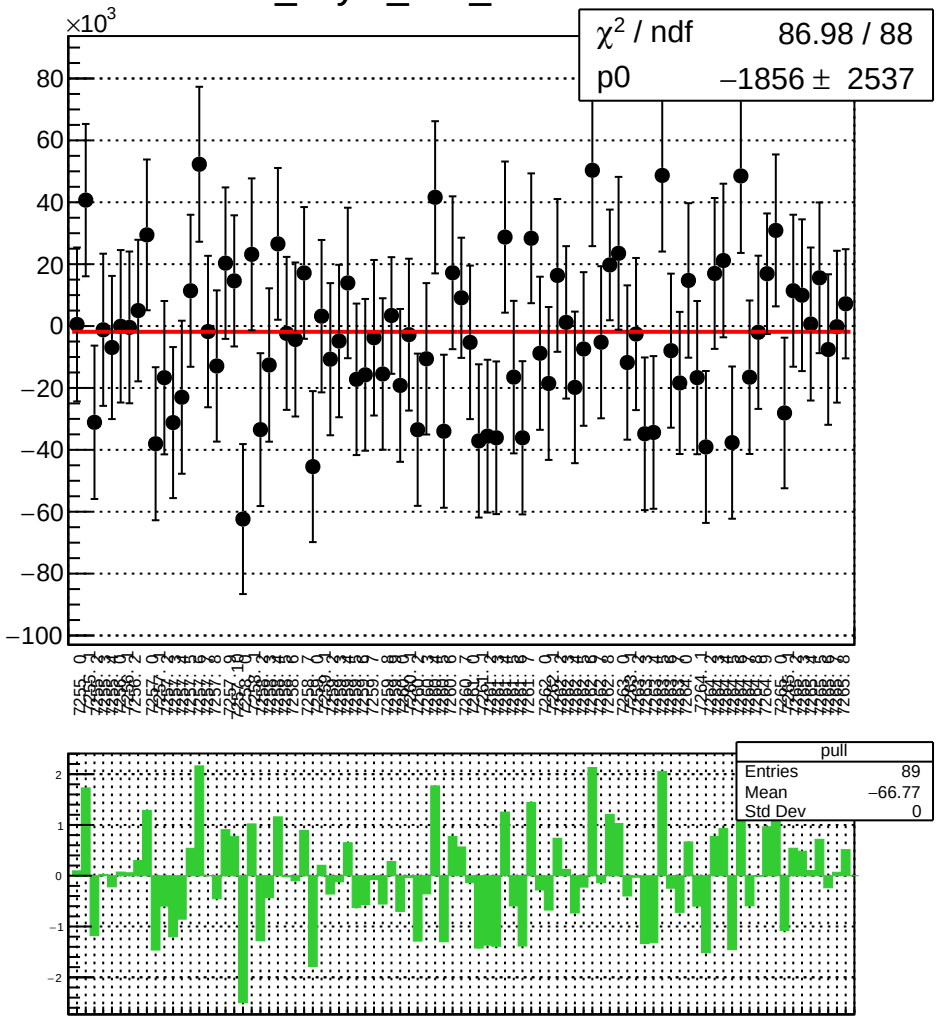

pull1D
Entries 89
Mean −0.01799
Std Dev 0.9884

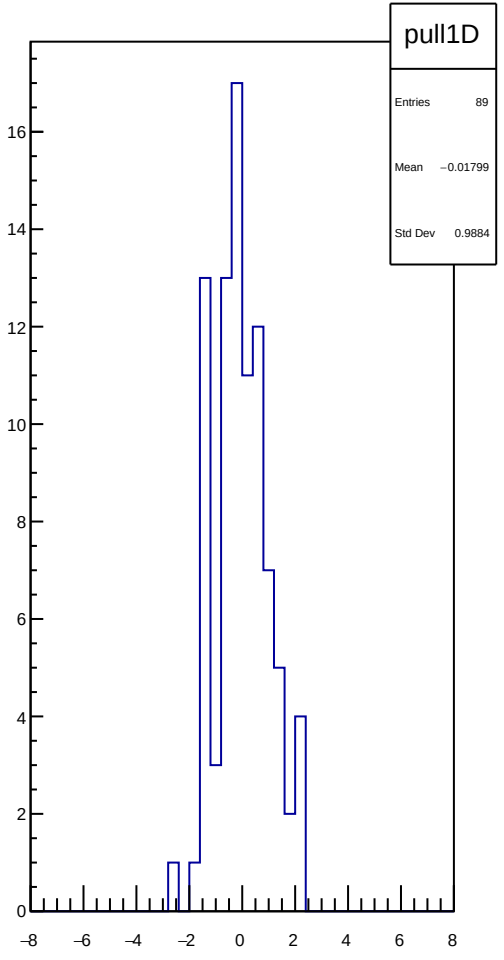

reg_asym_atl1_rms vs run
χ^2 / ndf 93.87 / 88
p0 2335 ± 1.794
2400
2380
2360
2340
2320
2300
2280

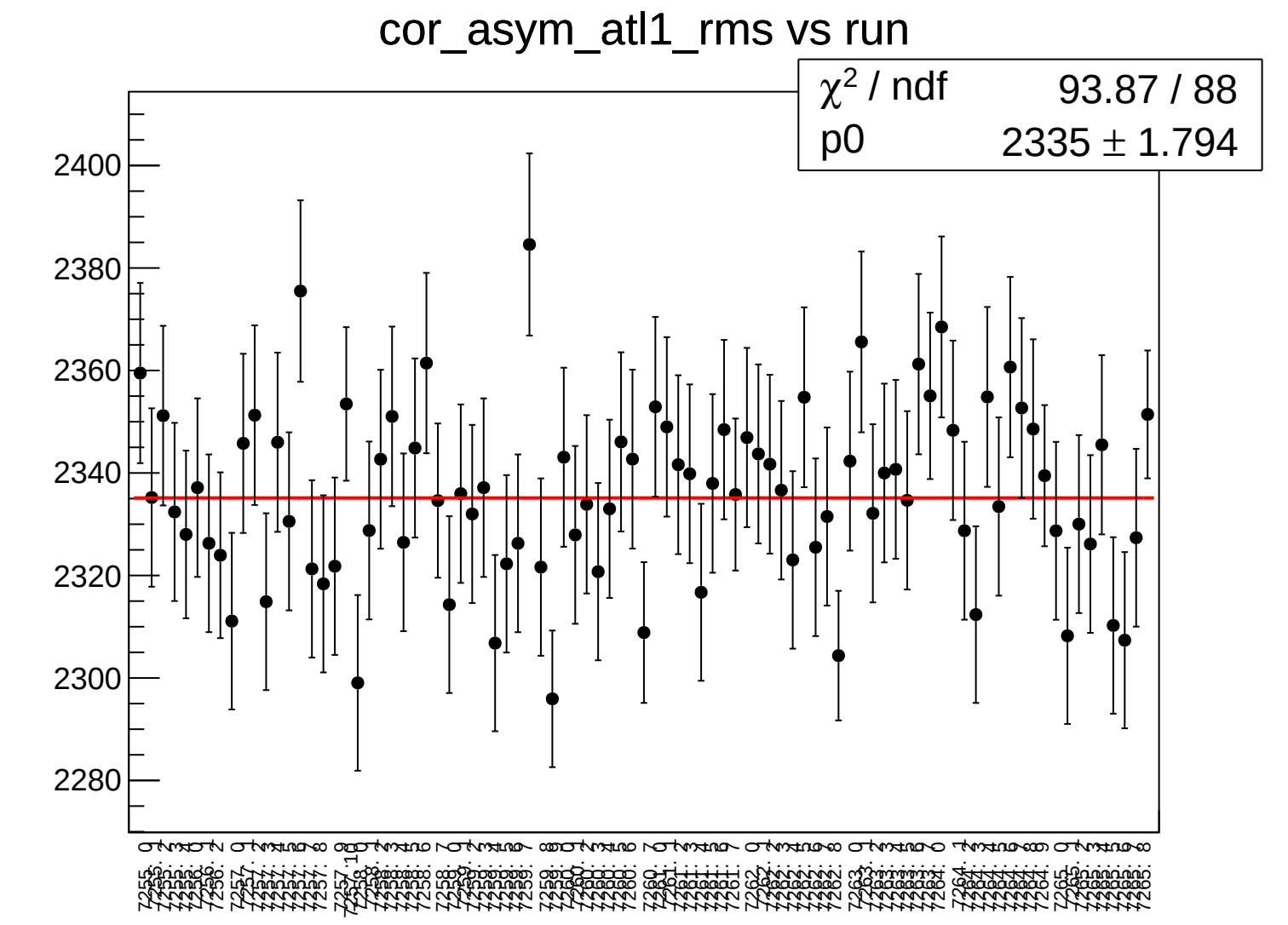

asym_atl1_reg_correction_mean vs run
χ² / ndf 98.09 / 88
p0 928.4 ± 685.5
pull
Entries 89
Mean 1056
Std Dev 0

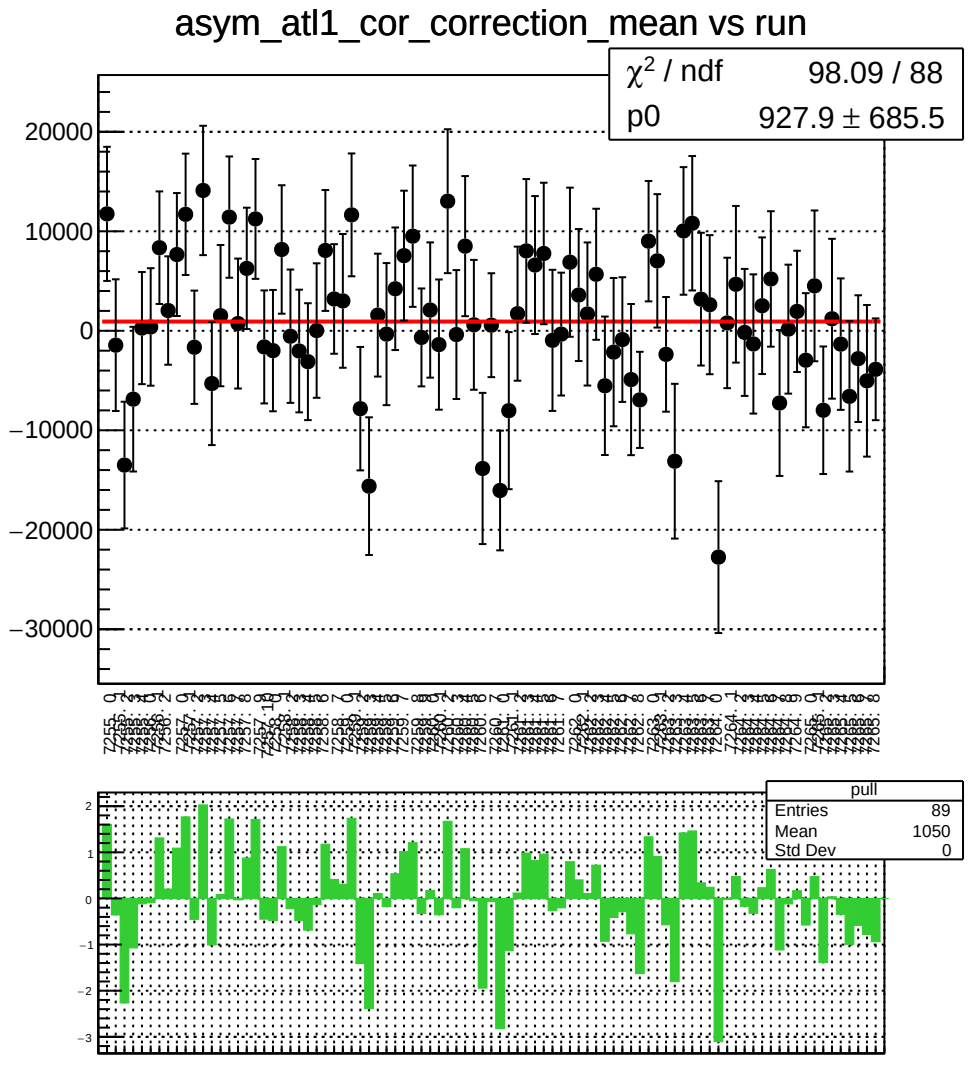

pull1D
Entries 89
Mean −0.005371
Std Dev 1.05

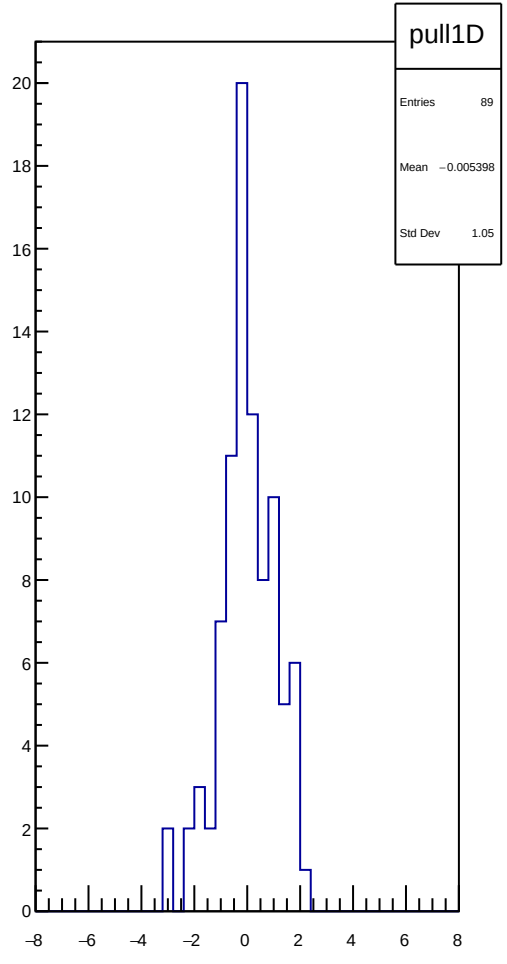

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.162e+04 / 88
p0 628.9 ± 0.4847
750
700
650
600
550

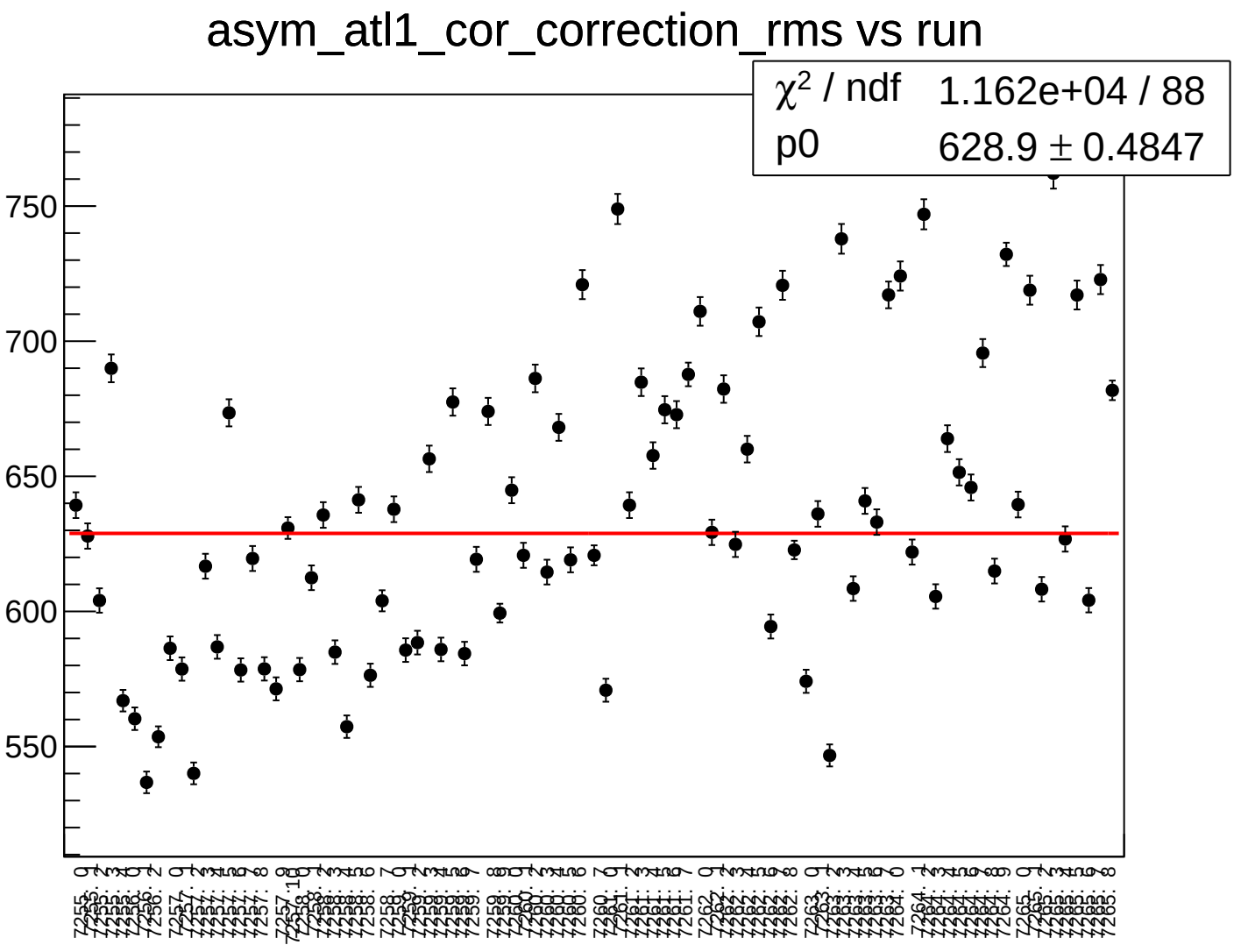

cor_asym_atl1_mean vs run
×10^3
χ² / ndf 86.98 / 88
p0 −1856 ± 2537
pull
Entries 89
Mean −66.77
Std Dev 0

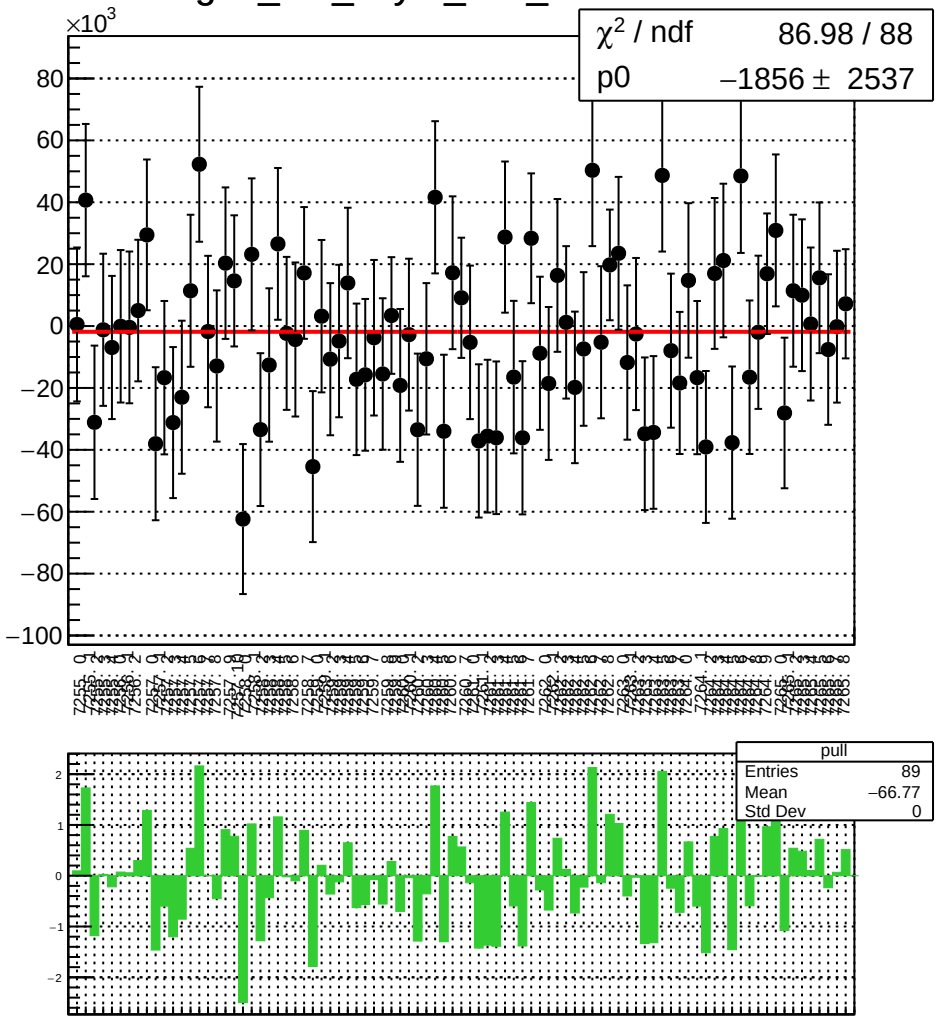

pull1D
Entries 89
Mean −0.01799
Std Dev 0.9884

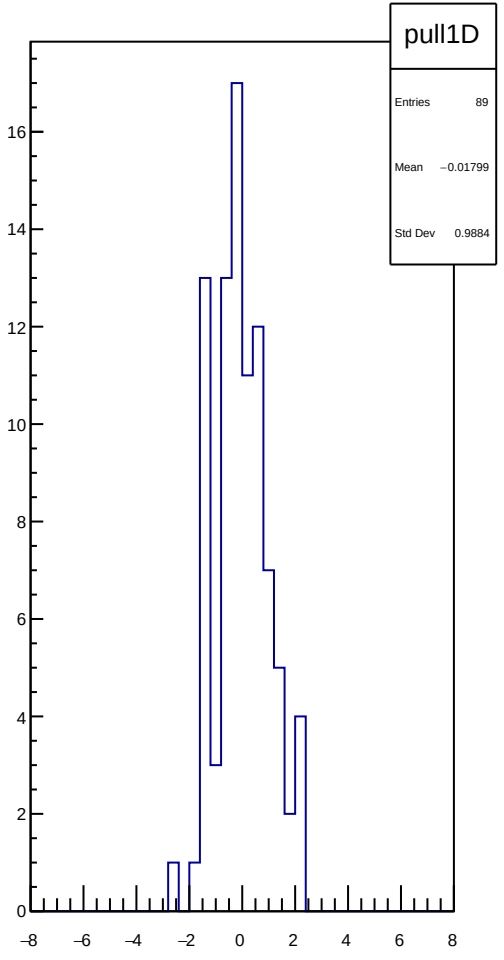

cor_asym_atl1_rms vs run
χ^2 / ndf 93.87 / 88
p0 2335 ± 1.794
2400
2380
2360
2340
2320
2300
2280

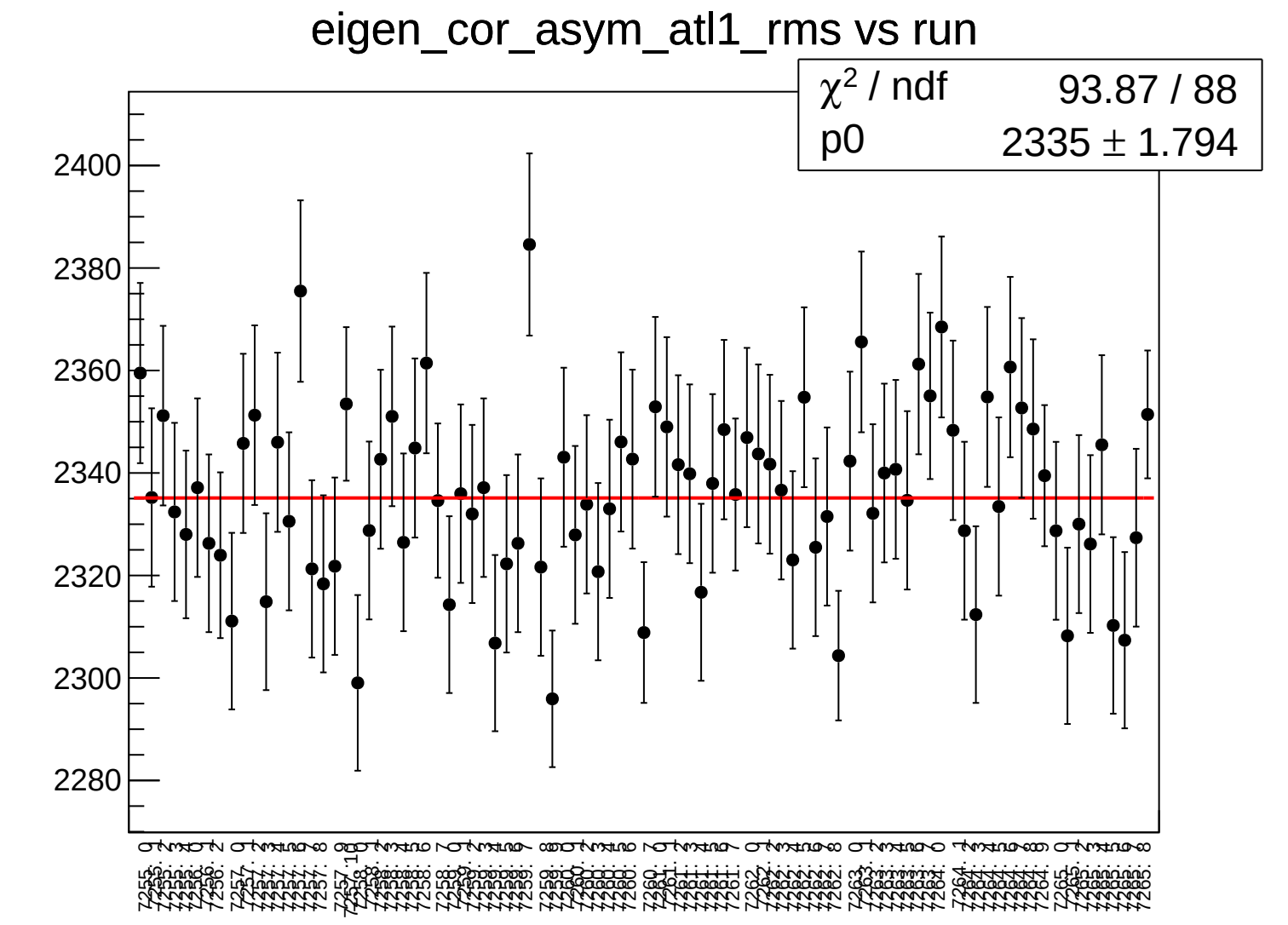

asym_atl1_cor_correction_mean vs run
χ² / ndf 98.09 / 88
p0 927.9 ± 685.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1050
Std Dev 0
2
1
0
−1
−2
−3

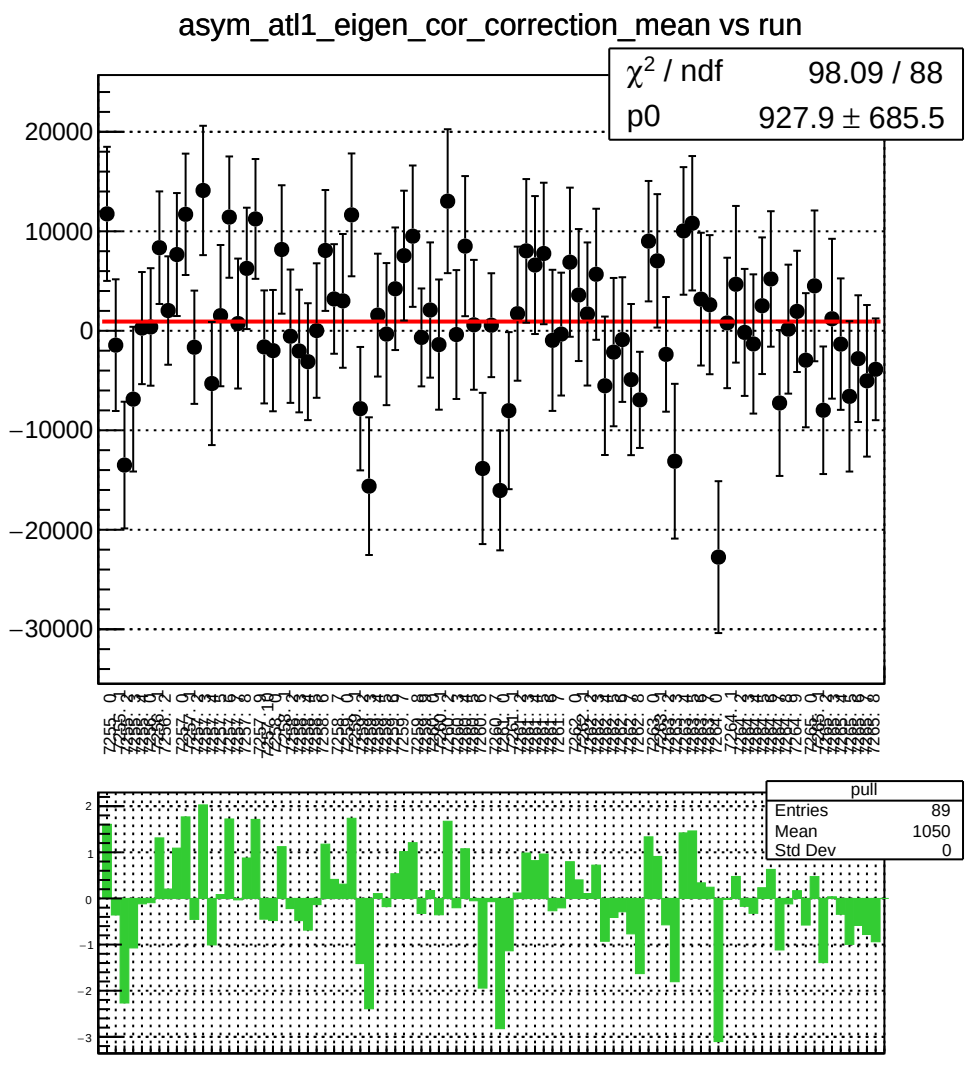

pull1D
Entries 89
Mean −0.005398
Std Dev 1.05
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

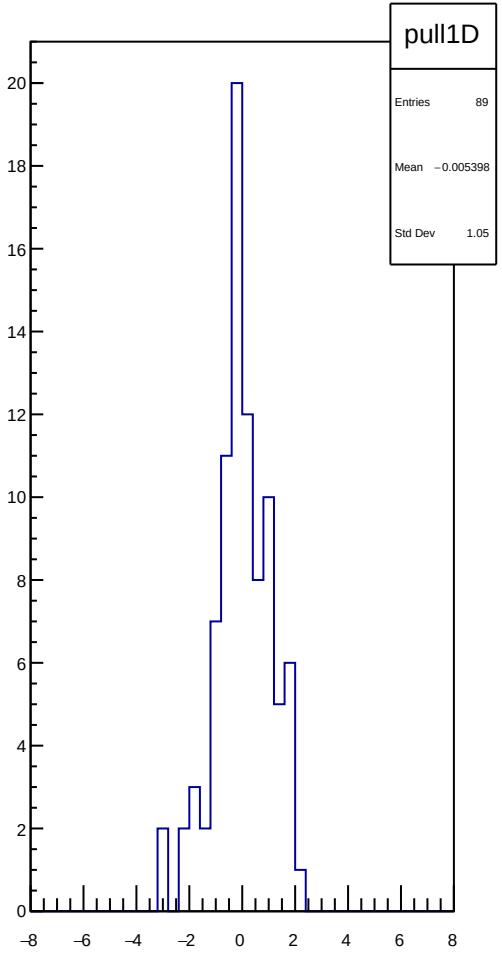

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.162e+04 / 88
p0 628.9 ± 0.4847
750
700
650
600
550

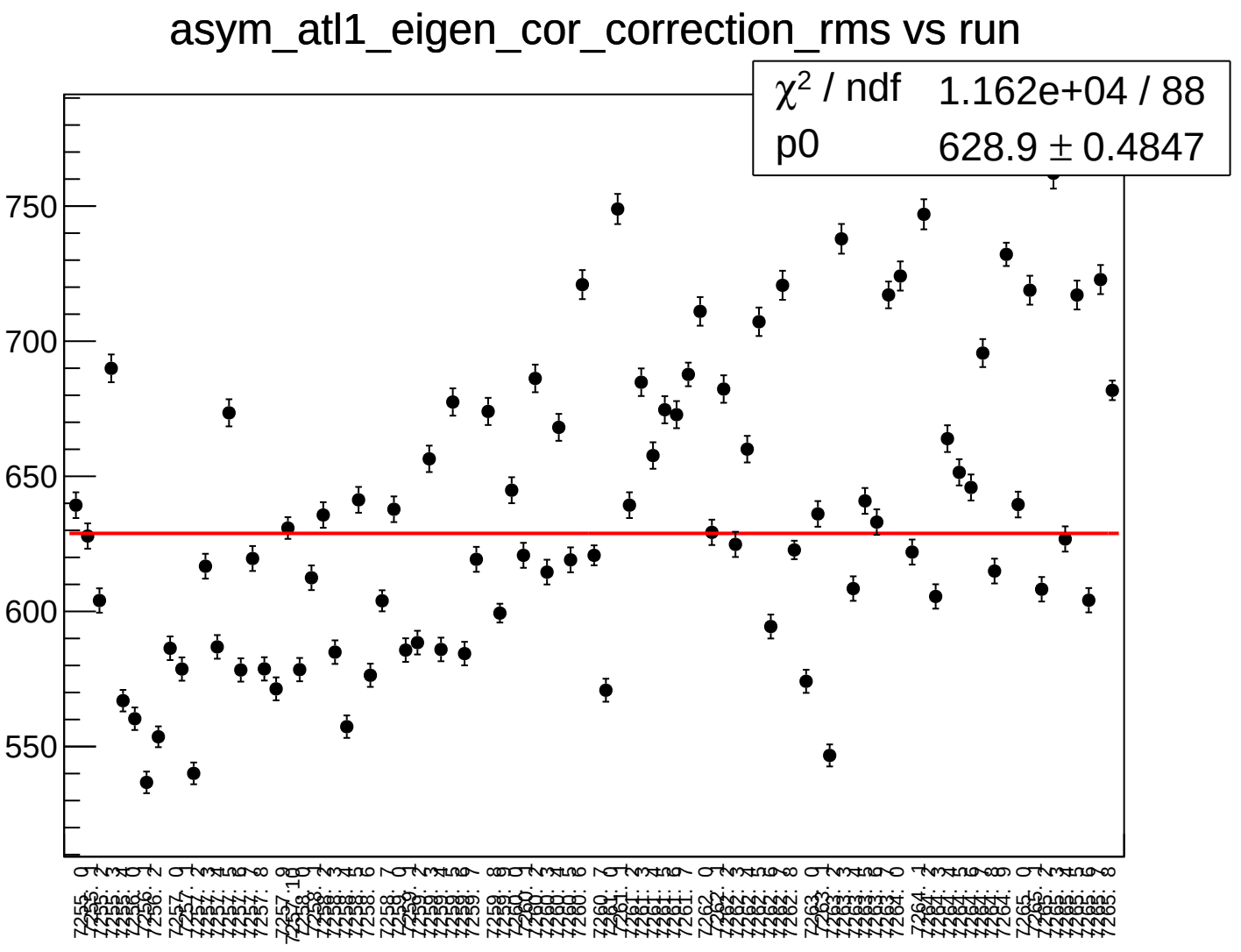

eigen_cor_asym_atl1_mean vs run
×10^3
χ² / ndf 86.98 / 88
p0 −1856 ± 2537
pull
Entries 89
Mean −66.77
Std Dev 0

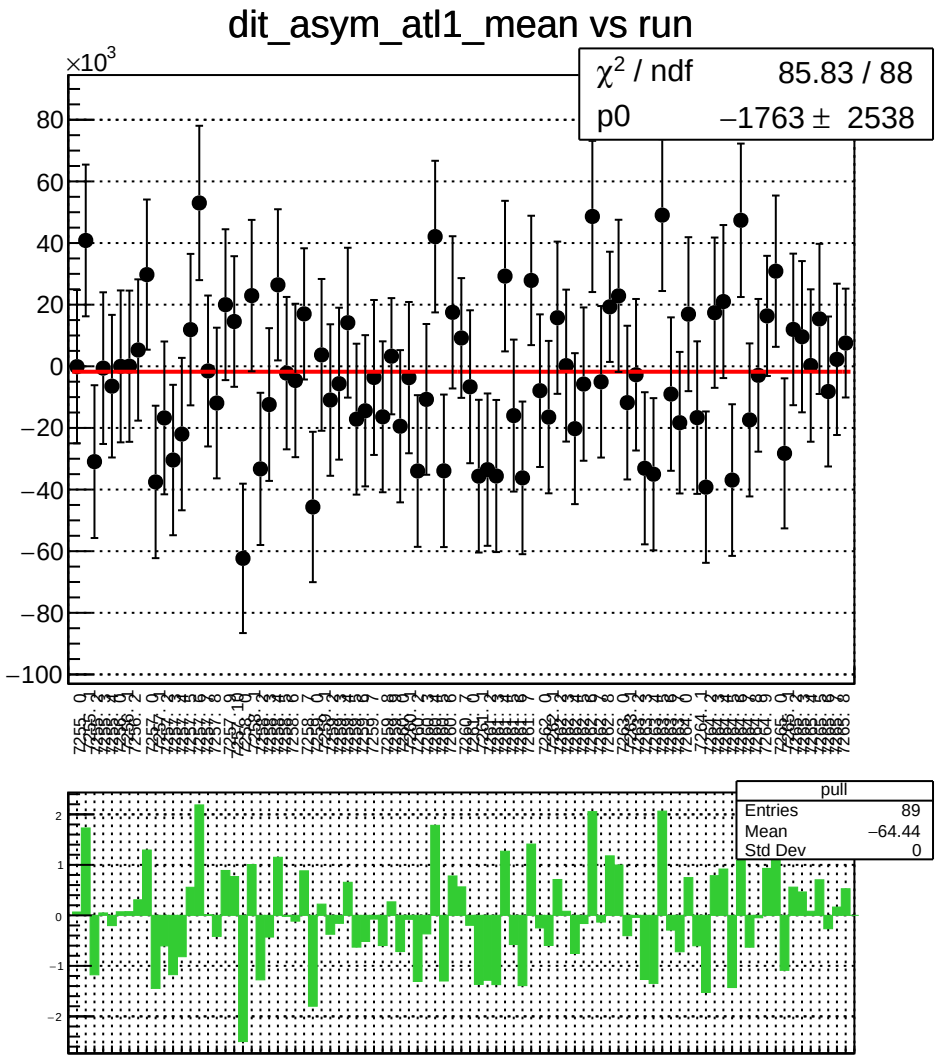

pull1D
Entries 89
Mean −0.01799
Std Dev 0.9884

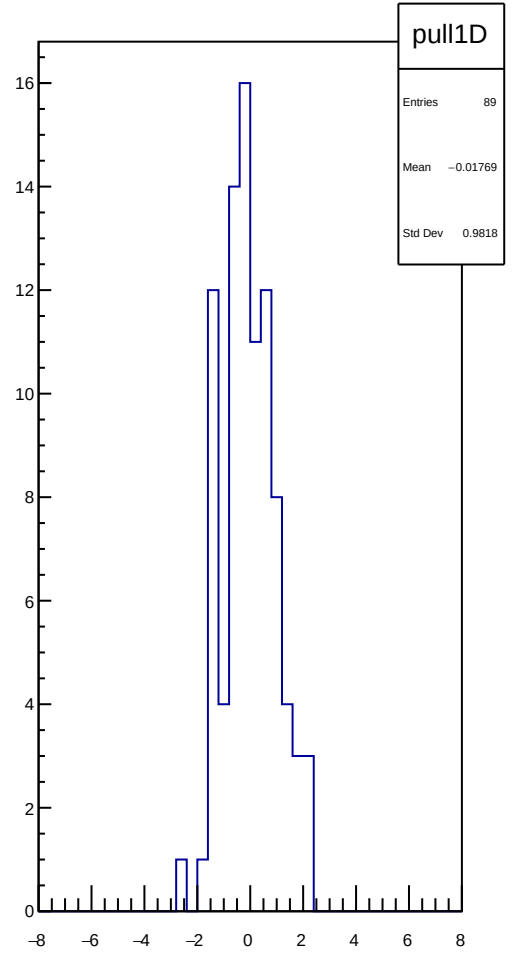

eigen_cor_asym_atl1_rms vs run
χ^2 / ndf 93.87 / 88
p0 2335 ± 1.794
2400
2380
2360
2340
2320
2300
2280

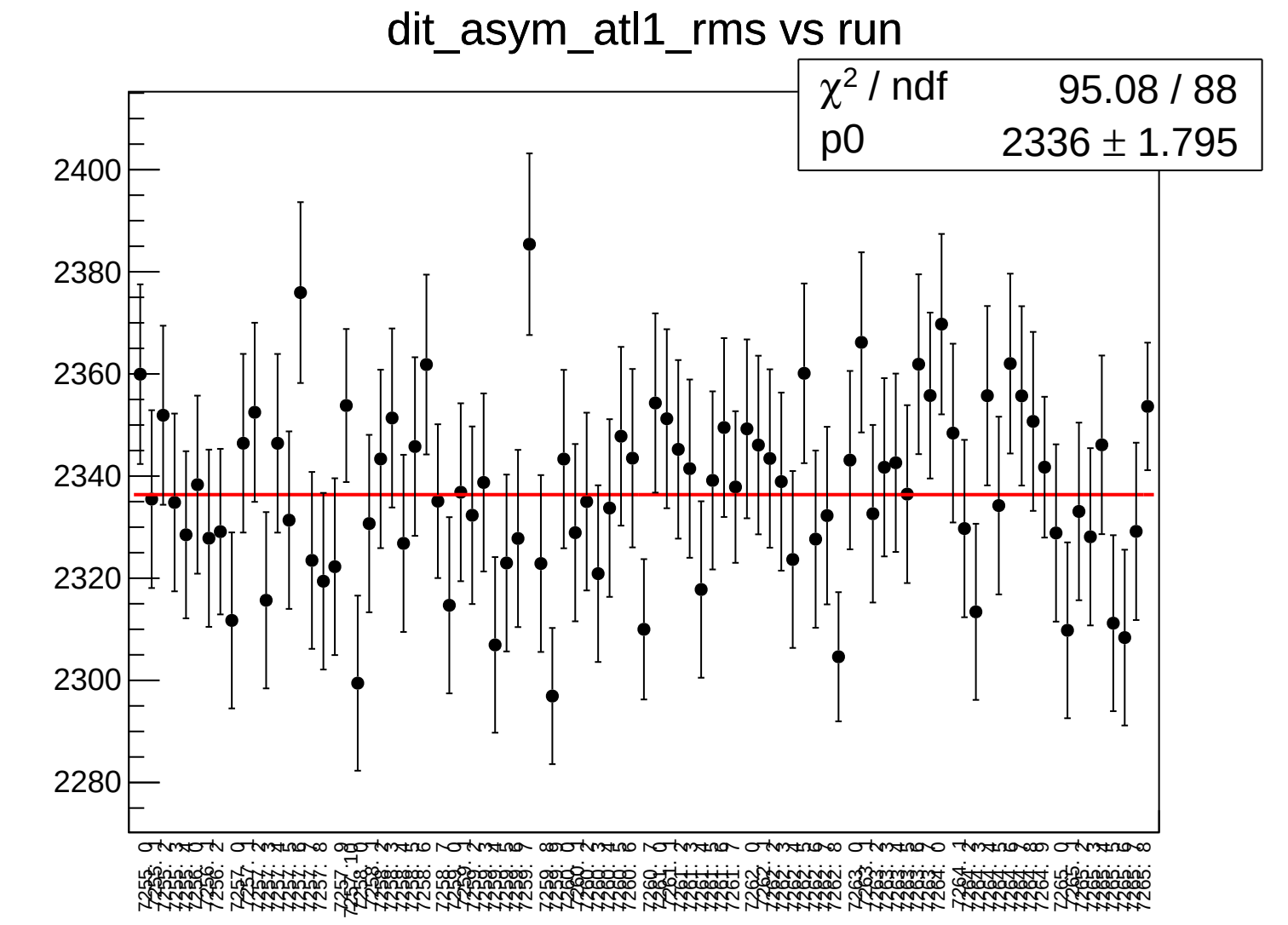

asym_atl1_eigen_cor_correction_mean vs run
χ^2 / ndf 98.09 / 88
p0 927.9 ± 685.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1050
Std Dev 0
2
1
0
−1
−2
−3

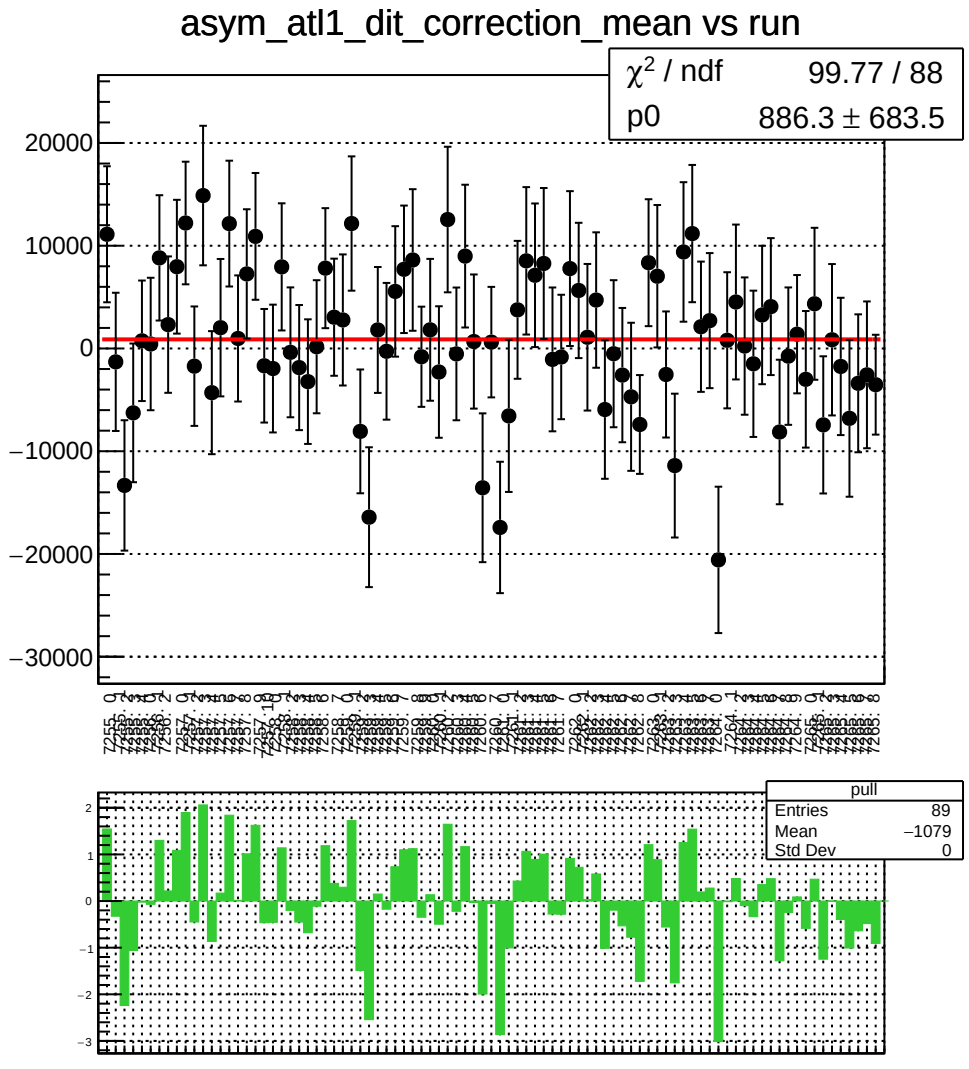

pull1D
Entries 89
Mean −0.005398
Std Dev 1.05
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

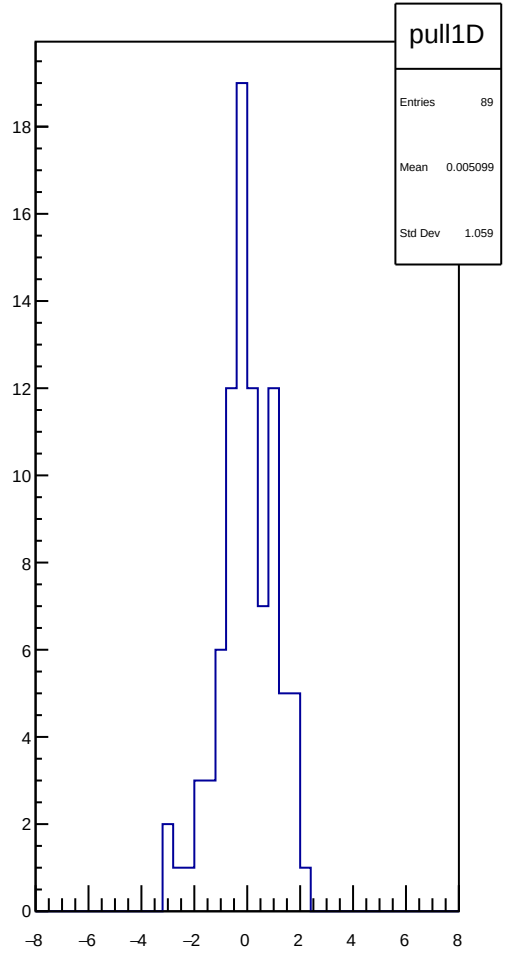

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.162e+04 / 88
p0 628.9 ± 0.4847
750
700
650
600
550

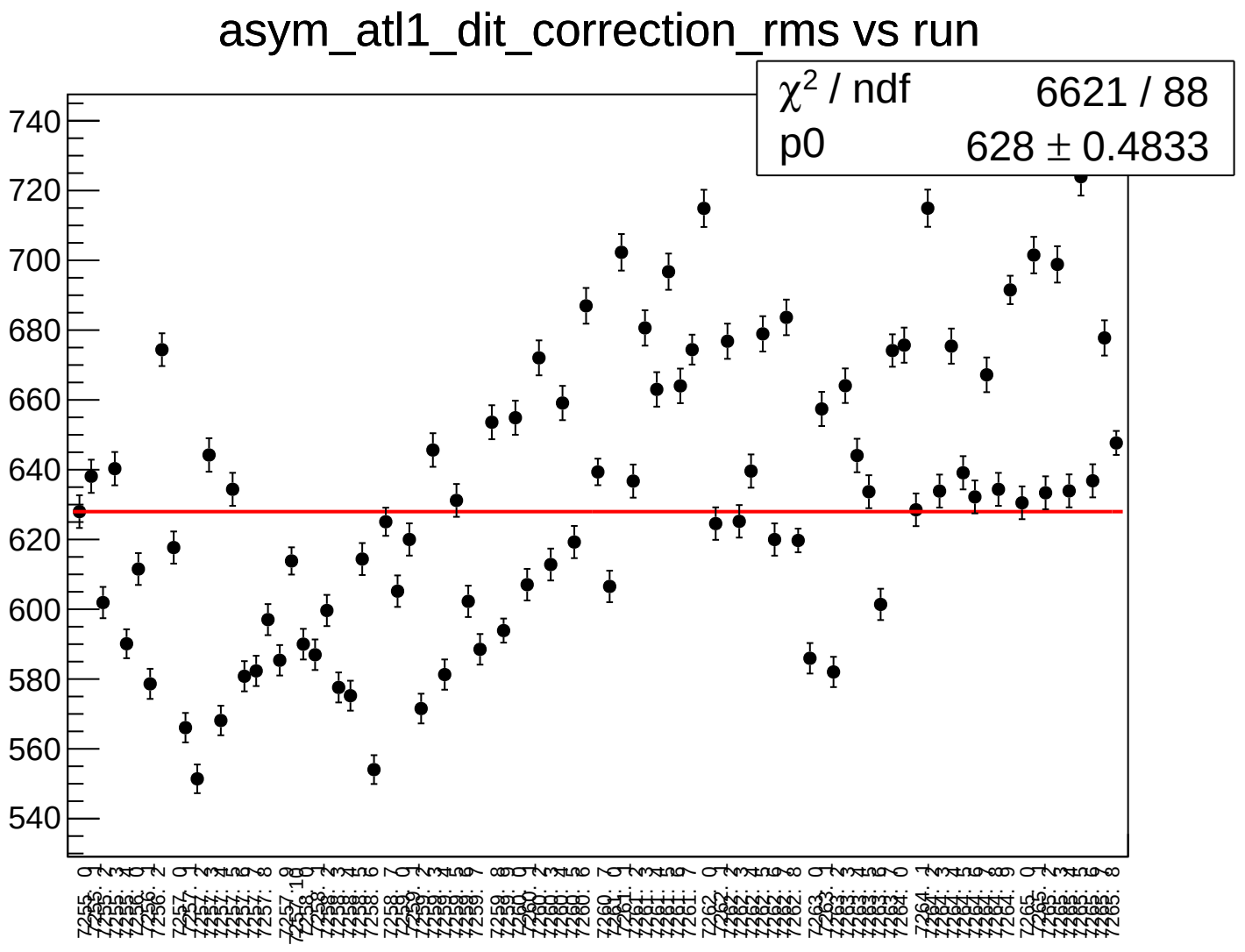

dit_asym_atl1_mean vs run
χ^2 / ndf 85.83 / 88
p0 −1763 ± 2538
×10^3
pull
Entries 89
Mean −64.44
Std Dev 0

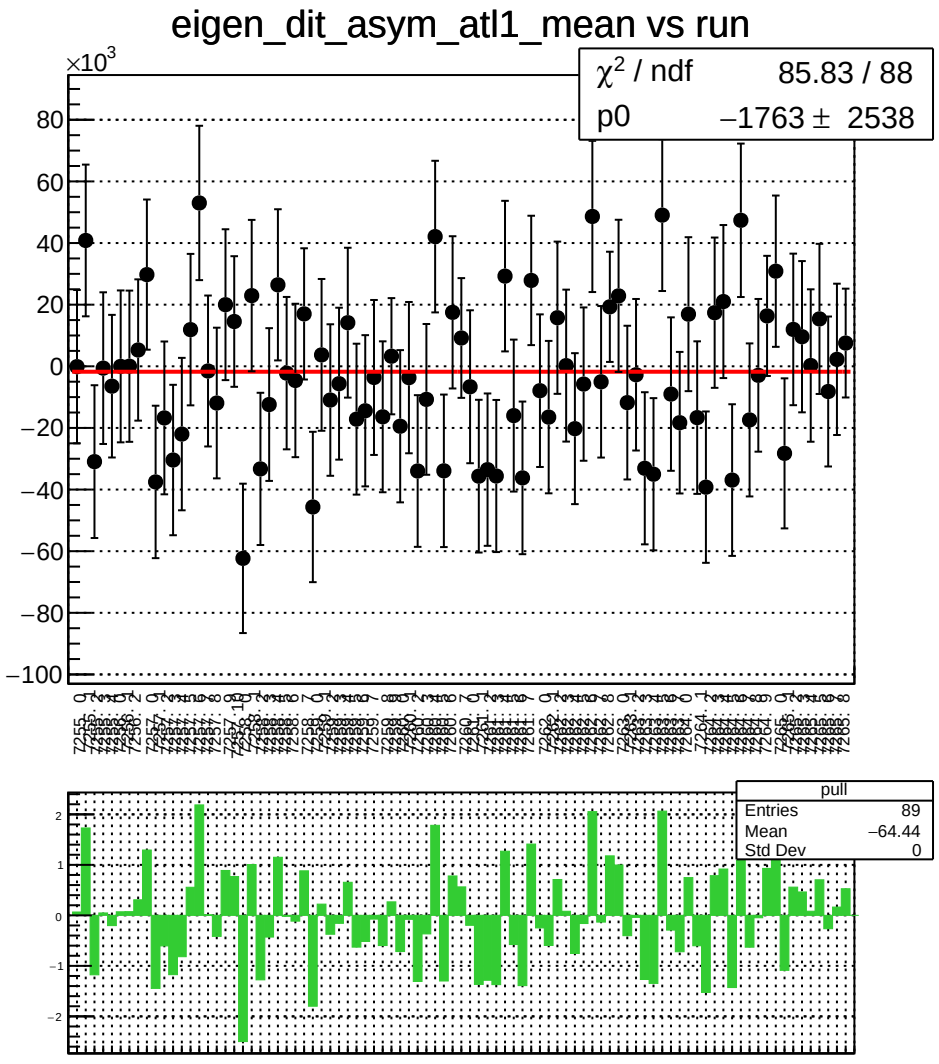

pull1D
Entries 89
Mean −0.01769
Std Dev 0.9818

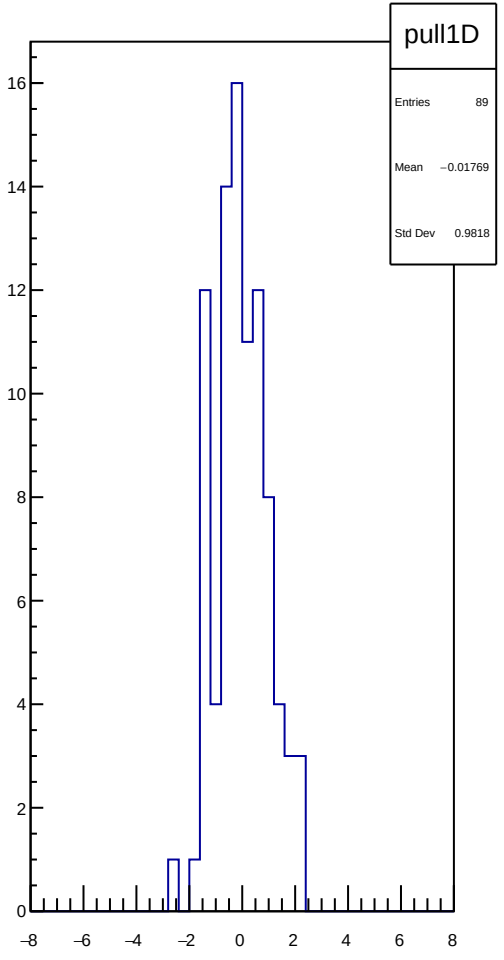

dit_asym_atl1_rms vs run
χ² / ndf 95.08 / 88
p0 2336 ± 1.795
2400
2380
2360
2340
2320
2300
2280

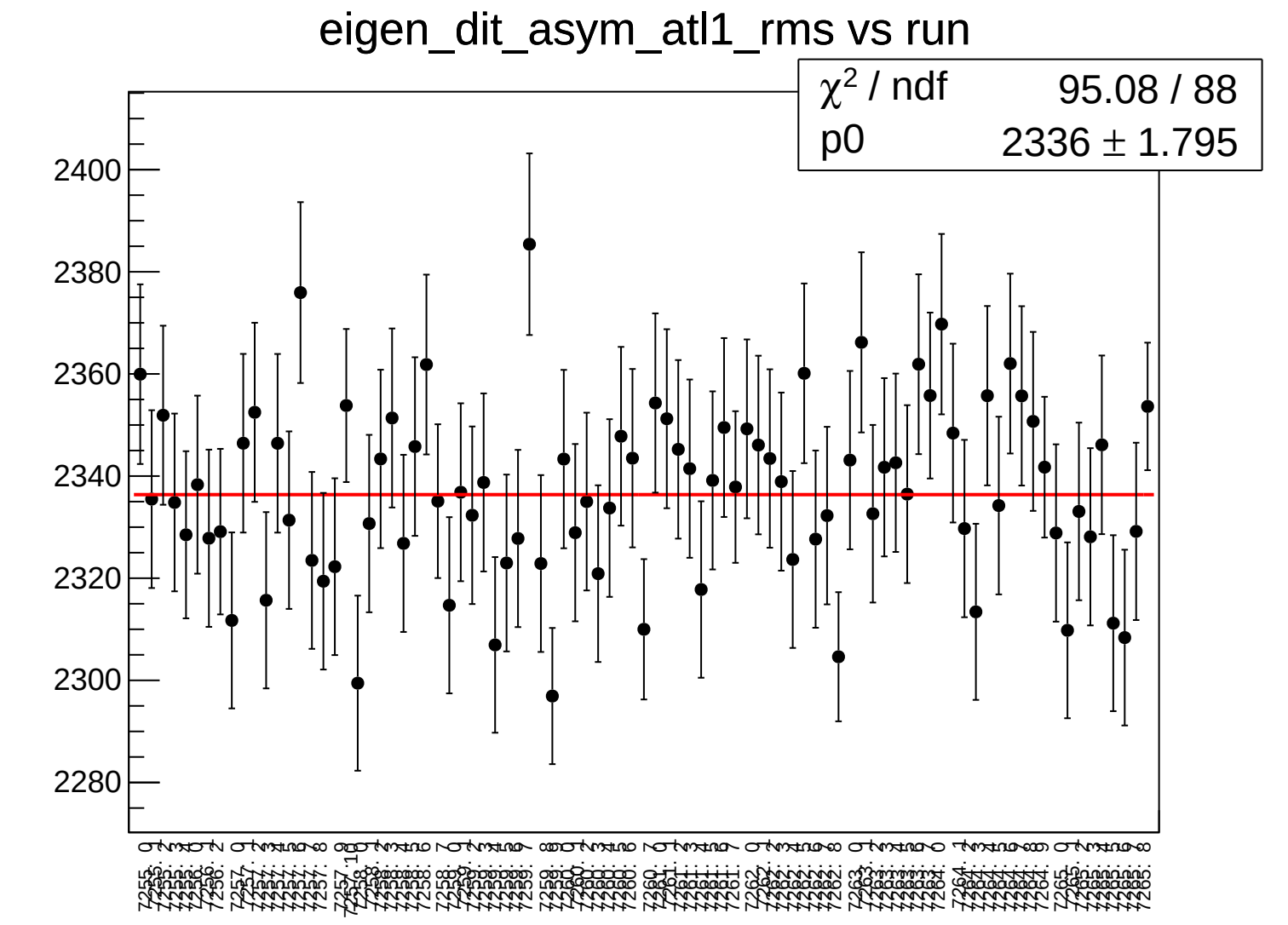

asym_atl1_dit_correction_mean vs run
χ² / ndf 99.77 / 88
p0 886.3 ± 683.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1079
Std Dev 0
2
1
0
−1
−2
−3

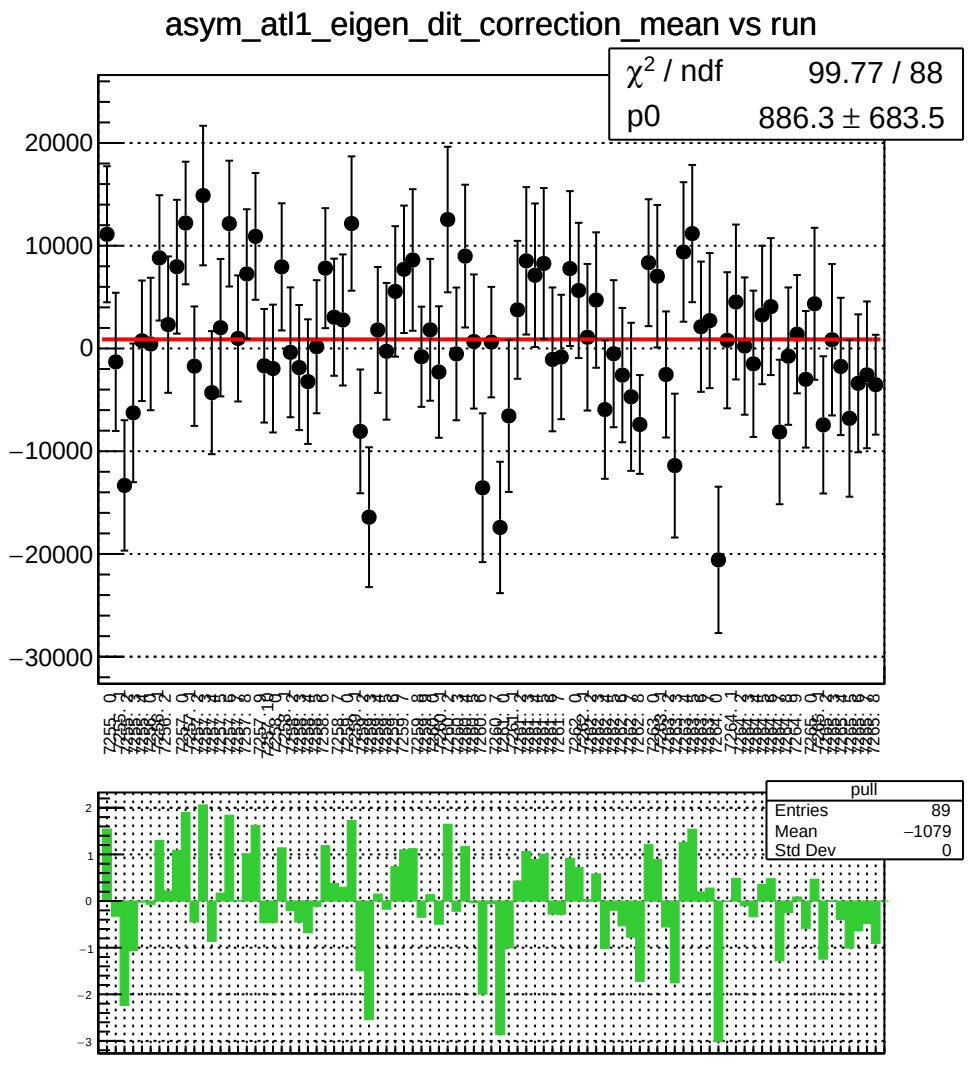

pull1D
Entries 89
Mean 0.005099
Std Dev 1.059
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

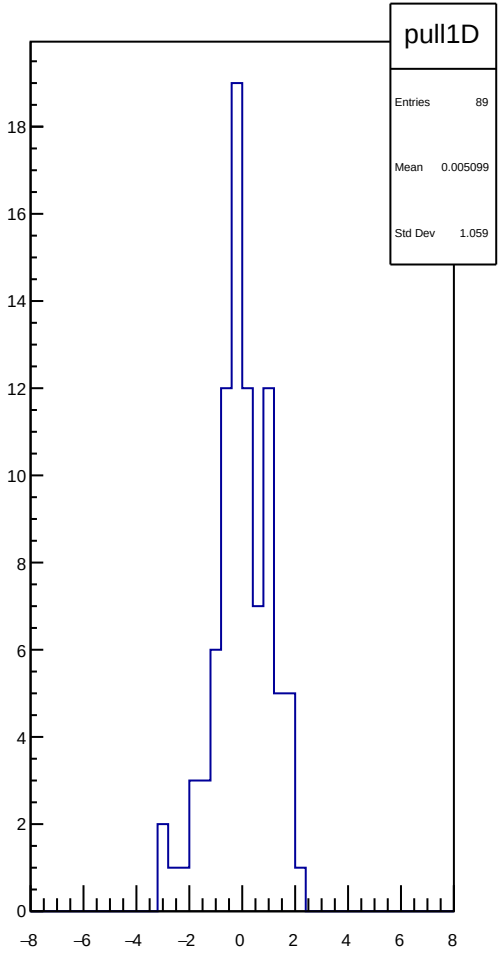

asym_atl1_dit_correction_rms vs run
χ^2 / ndf 6621 / 88
p0 628 ± 0.4833
740
720
700
680
660
640
620
600
580
560
540

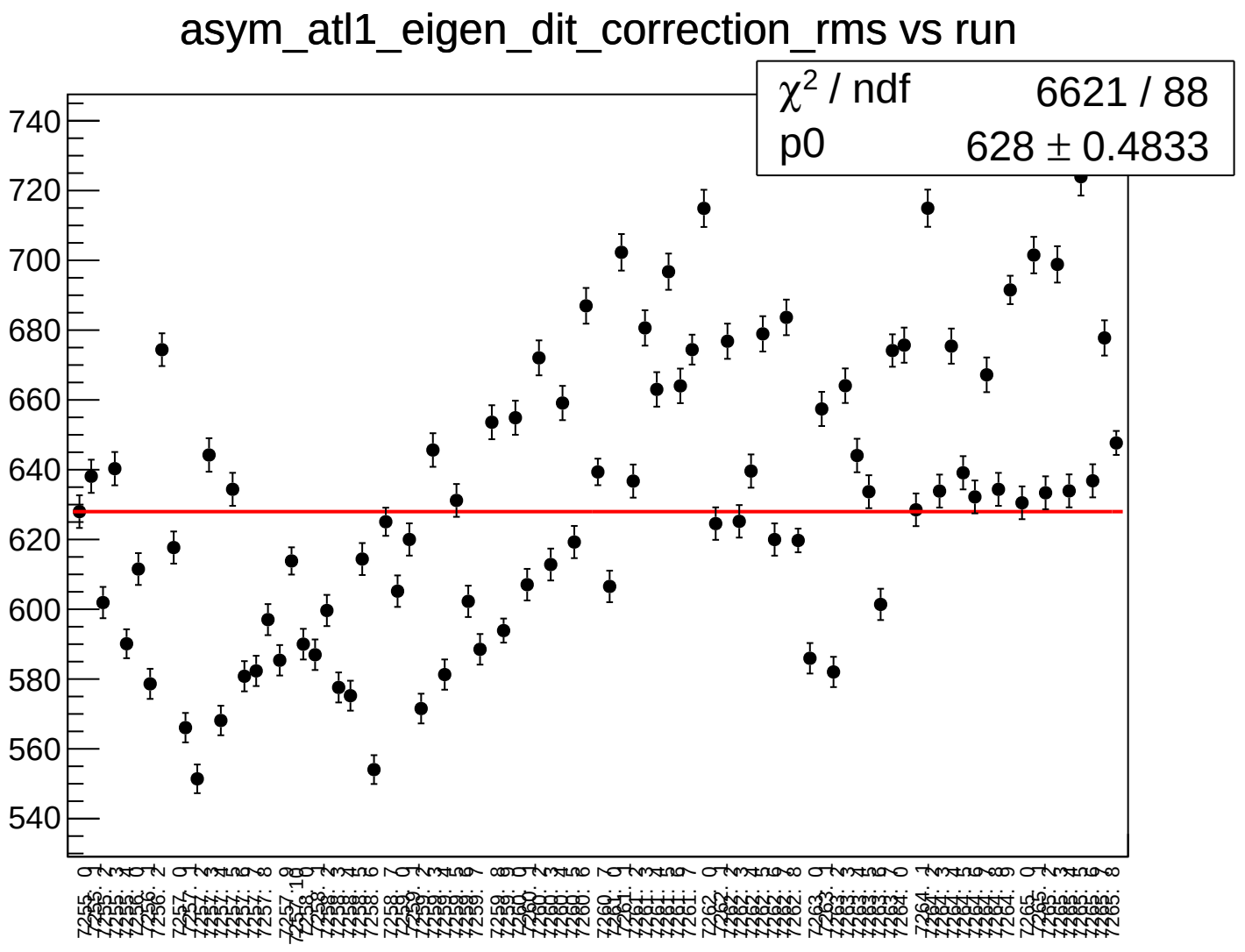

eigen_dit_asym_atl1_mean vs run
χ^2 / ndf 85.83 / 88
p0 −1763 ± 2538
×10^3
pull
Entries 89
Mean −64.44
Std Dev 0

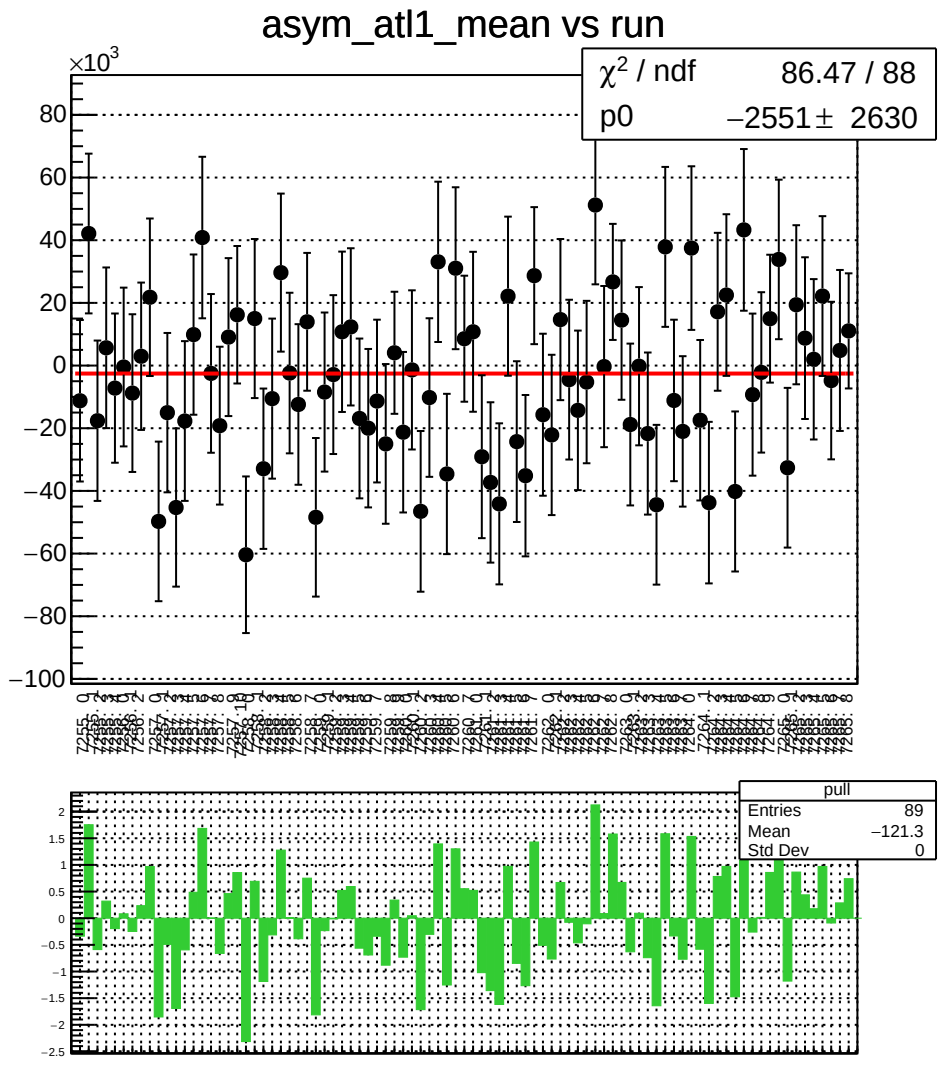

pull1D
Entries 89
Mean −0.01769
Std Dev 0.9818

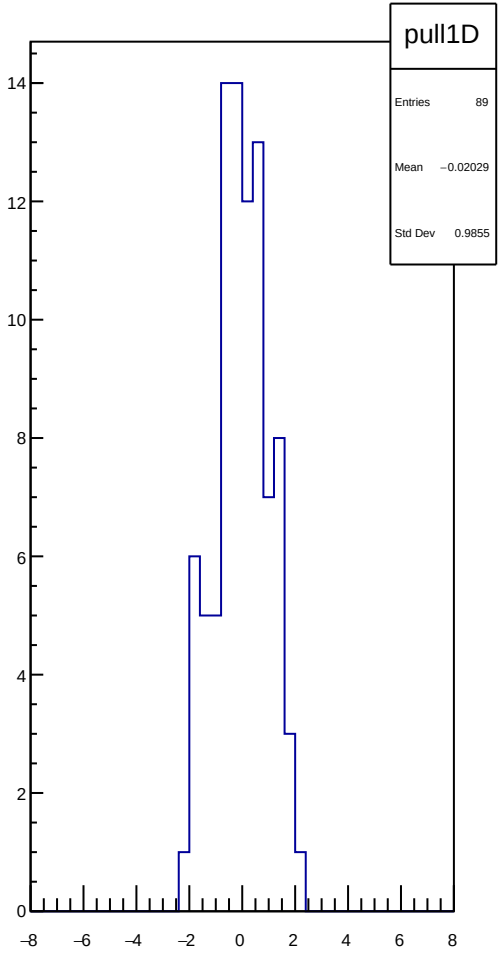

eigen_dit_asym_atl1_rms vs run
χ² / ndf 95.08 / 88
p0 2336 ± 1.795
2400
2380
2360
2340
2320
2300
2280

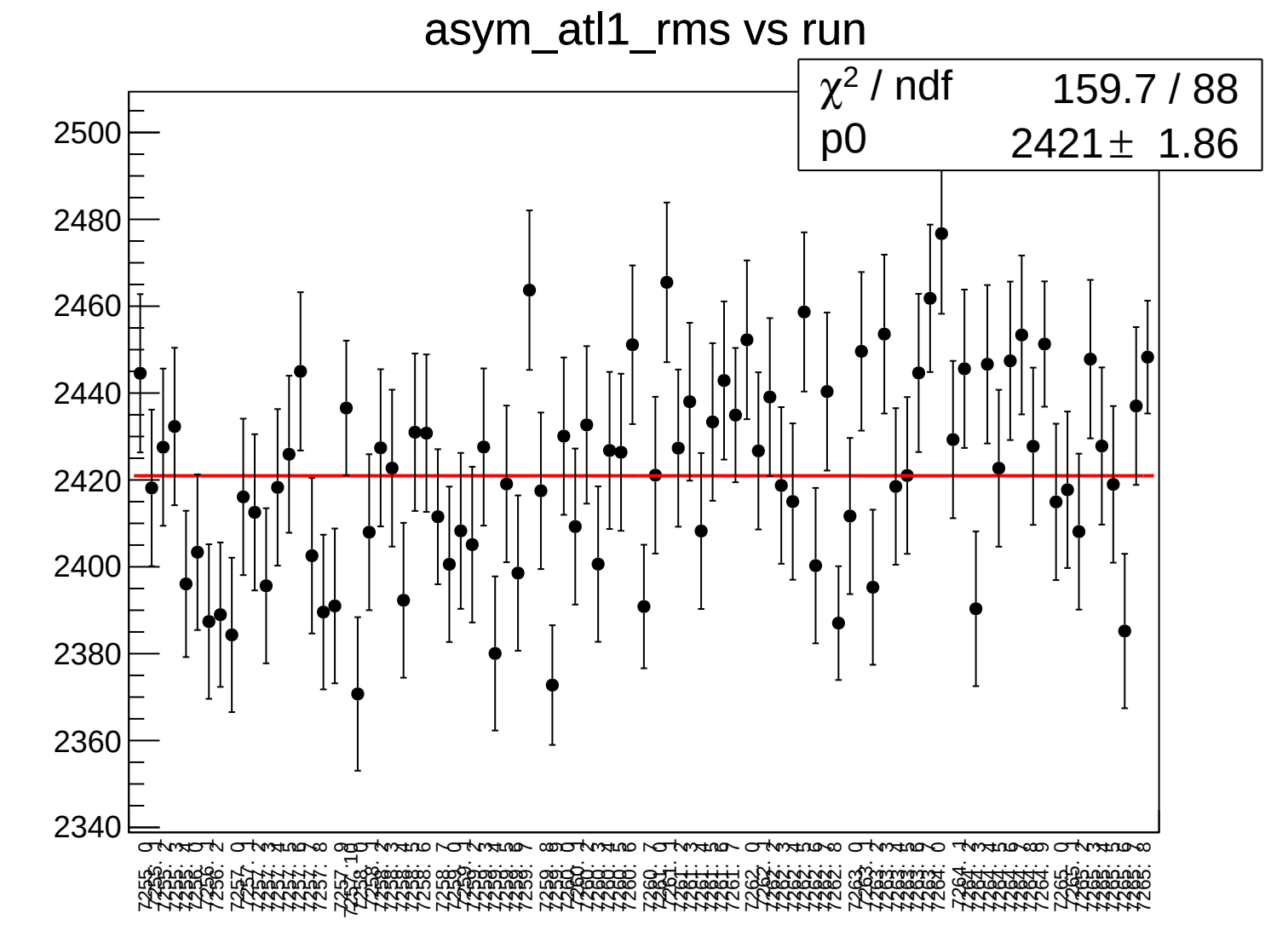

asym_atl1_eigen_dit_correction_mean vs run
χ^2 / ndf 99.77 / 88
p0 886.3 ± 683.5
pull
Entries 89
Mean −1079
Std Dev 0

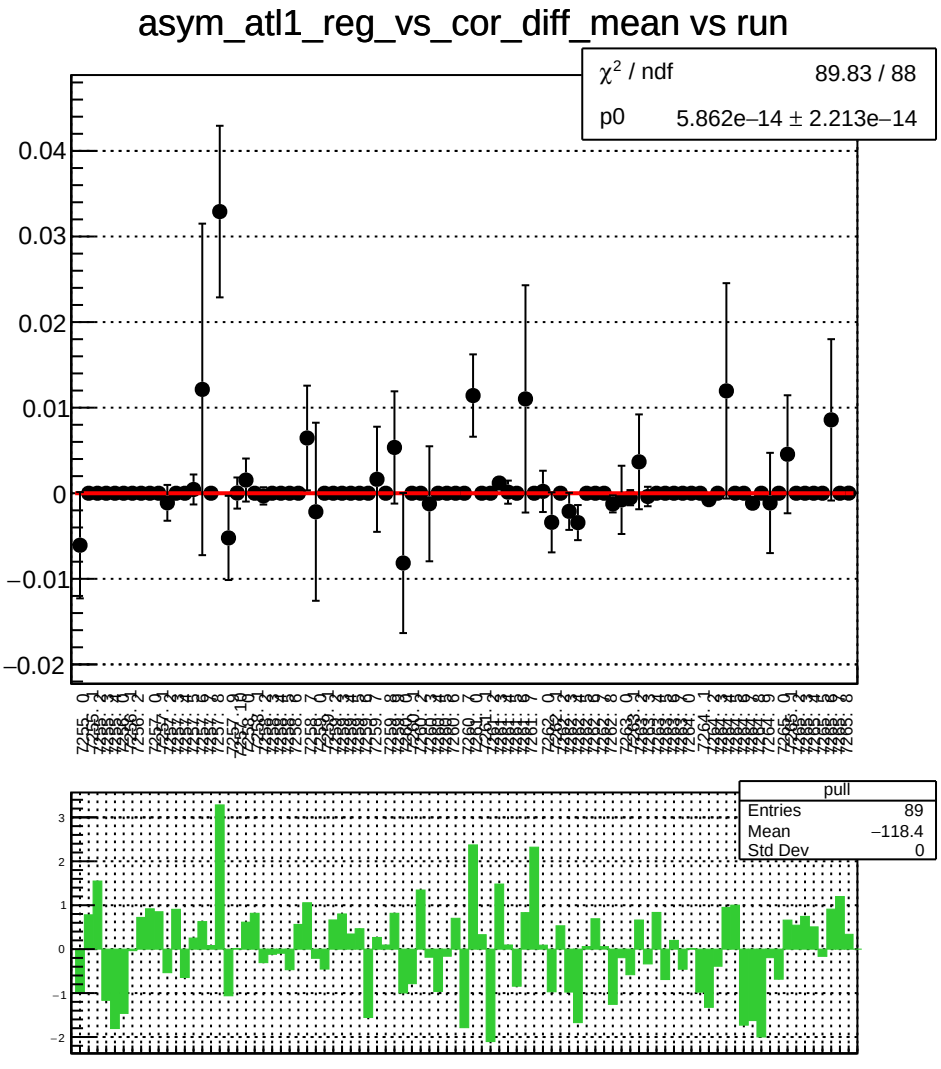

pull1D
Entries 89
Mean 0.005099
Std Dev 1.059

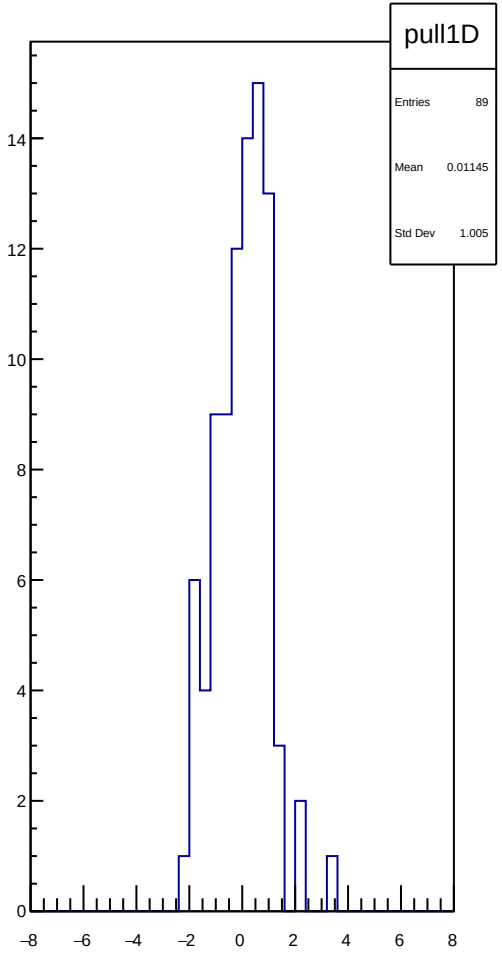

asym_atl1_eigen_dit_correction_rms vs run
χ^2 / ndf 6621 / 88
p0 628 ± 0.4833
740
720
700
680
660
640
620
600
580
560
540

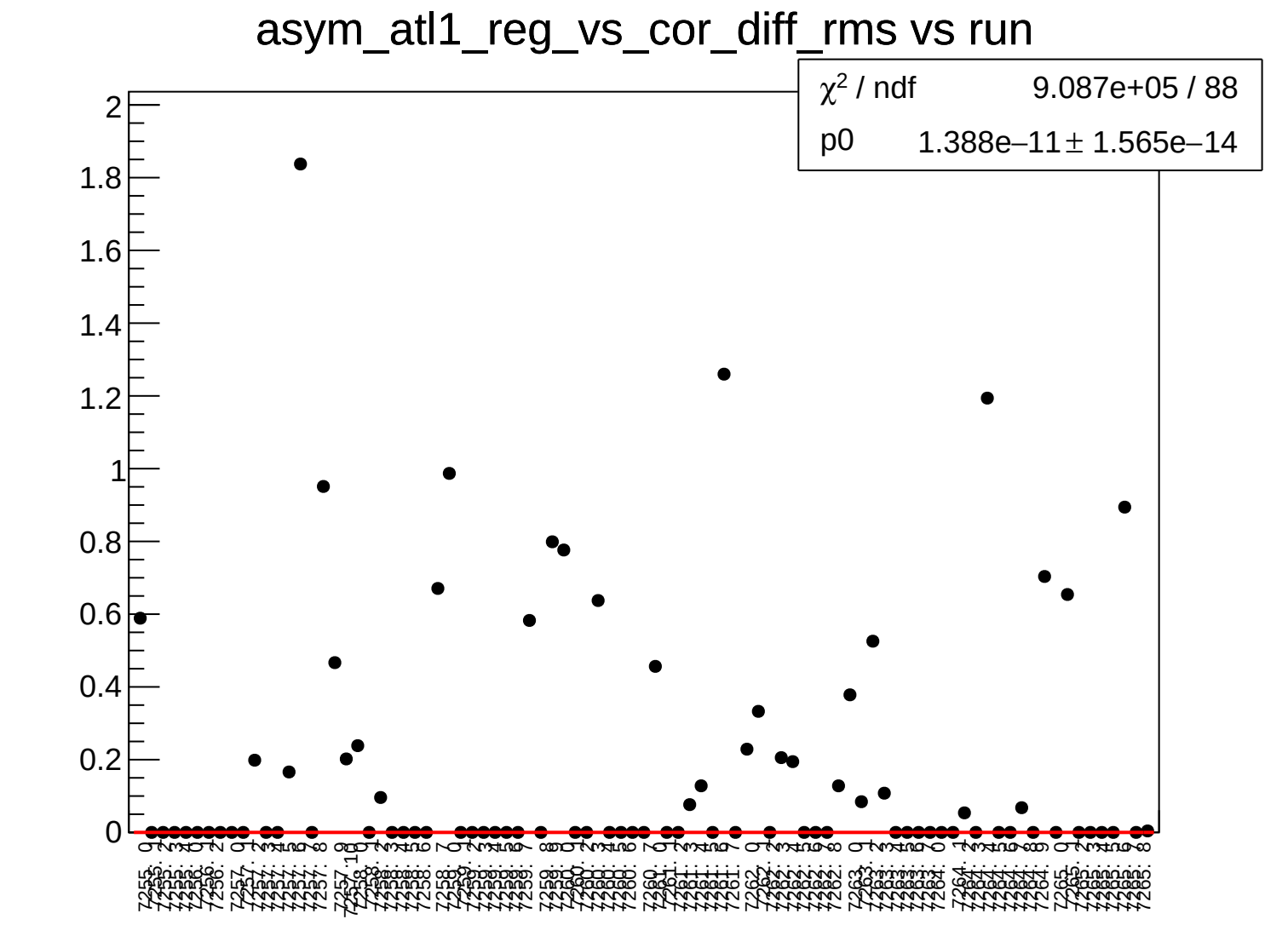

asym_atl1_mean vs run
×10^3
χ^2 / ndf 86.47 / 88
p0 −2551 ± 2630
pull
Entries 89
Mean −121.3
Std Dev 0

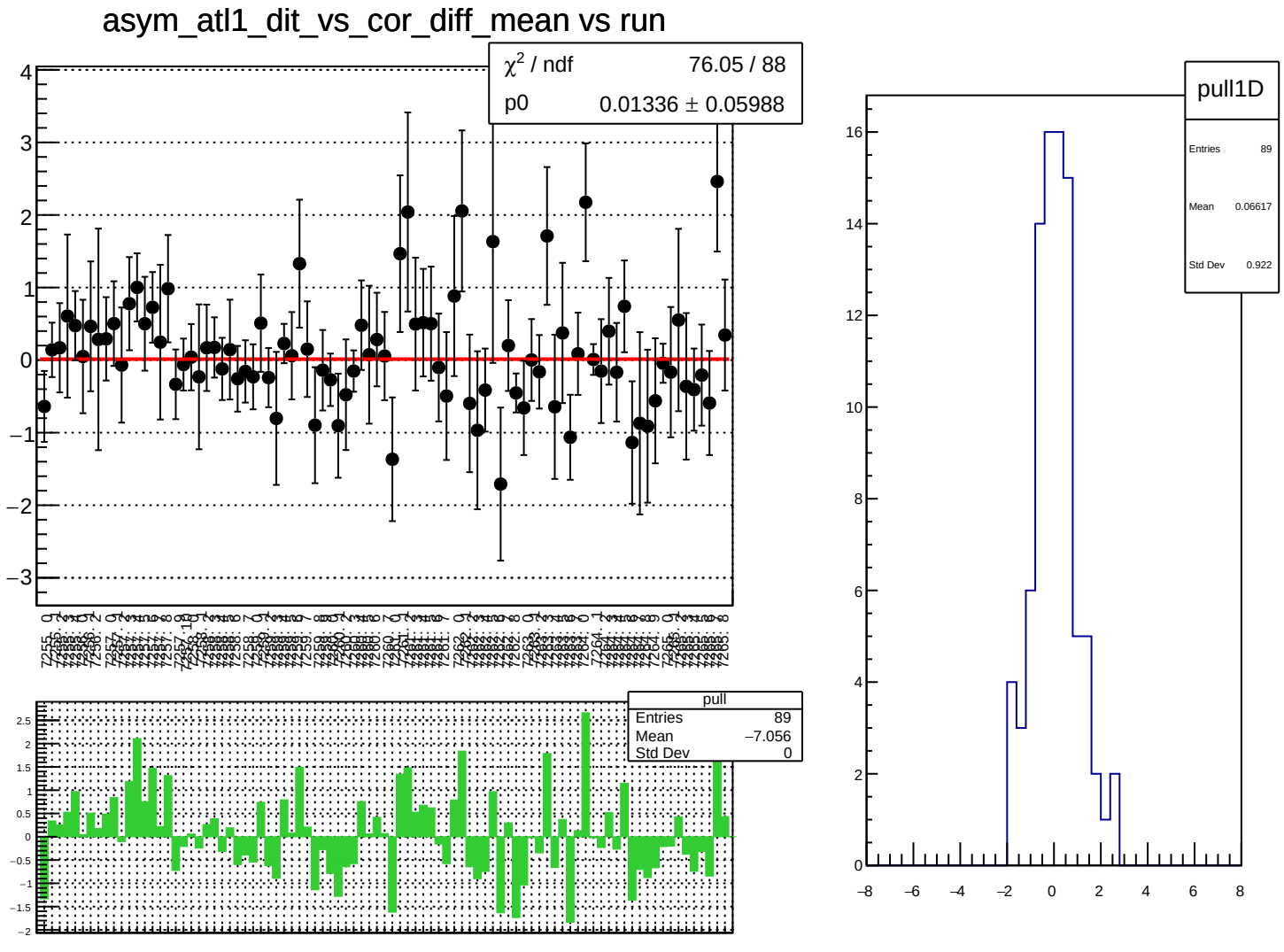

pull1D
Entries 89
Mean −0.02029
Std Dev 0.9855

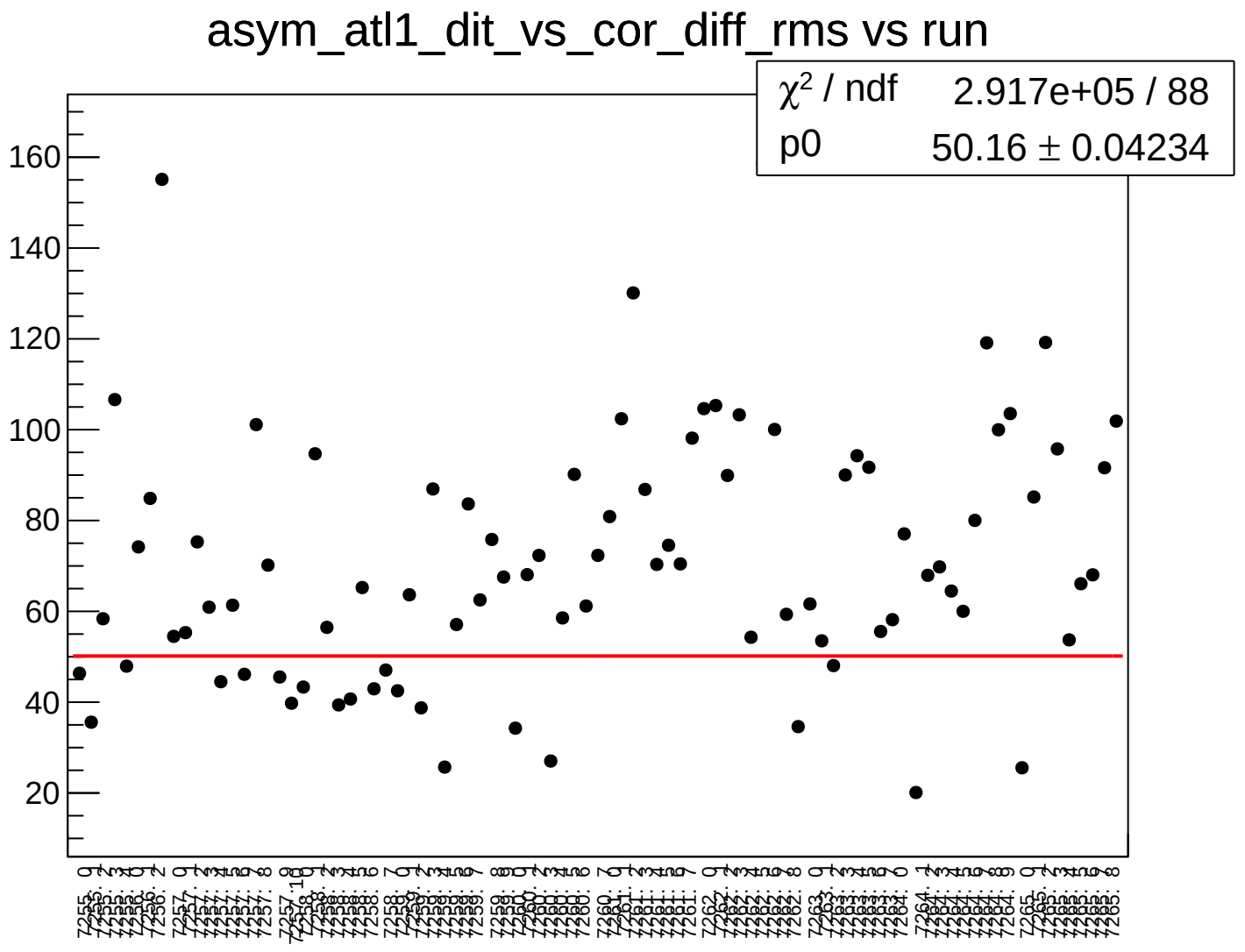

asym_atl1_rms vs run
χ² / ndf 159.7 / 88
p0 2421 ± 1.86
2500
2480
2460
2440
2420
2400
2380
2360
2340

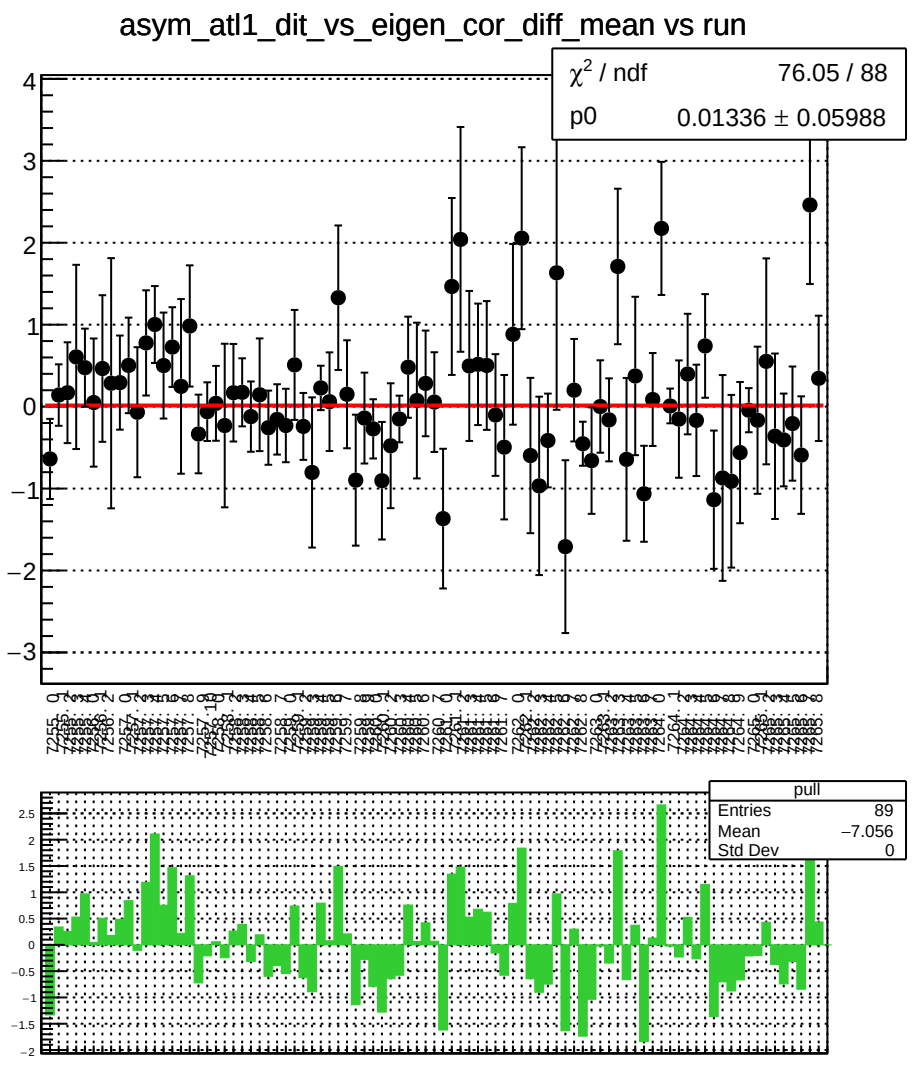

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 89.83 / 88
p0 5.862e−14 ± 2.213e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean −118.4
Std Dev 0
3
2
1
0
−1
−2

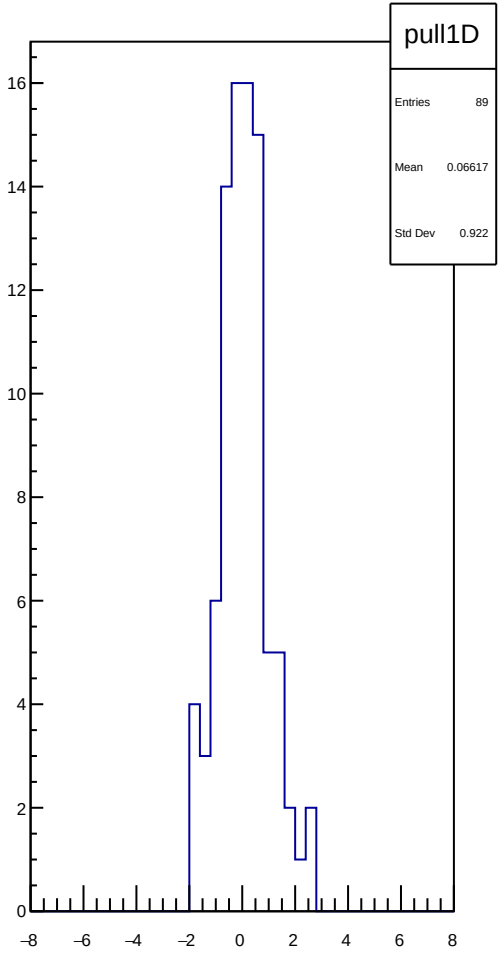

pull1D
Entries 89
Mean 0.01145
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

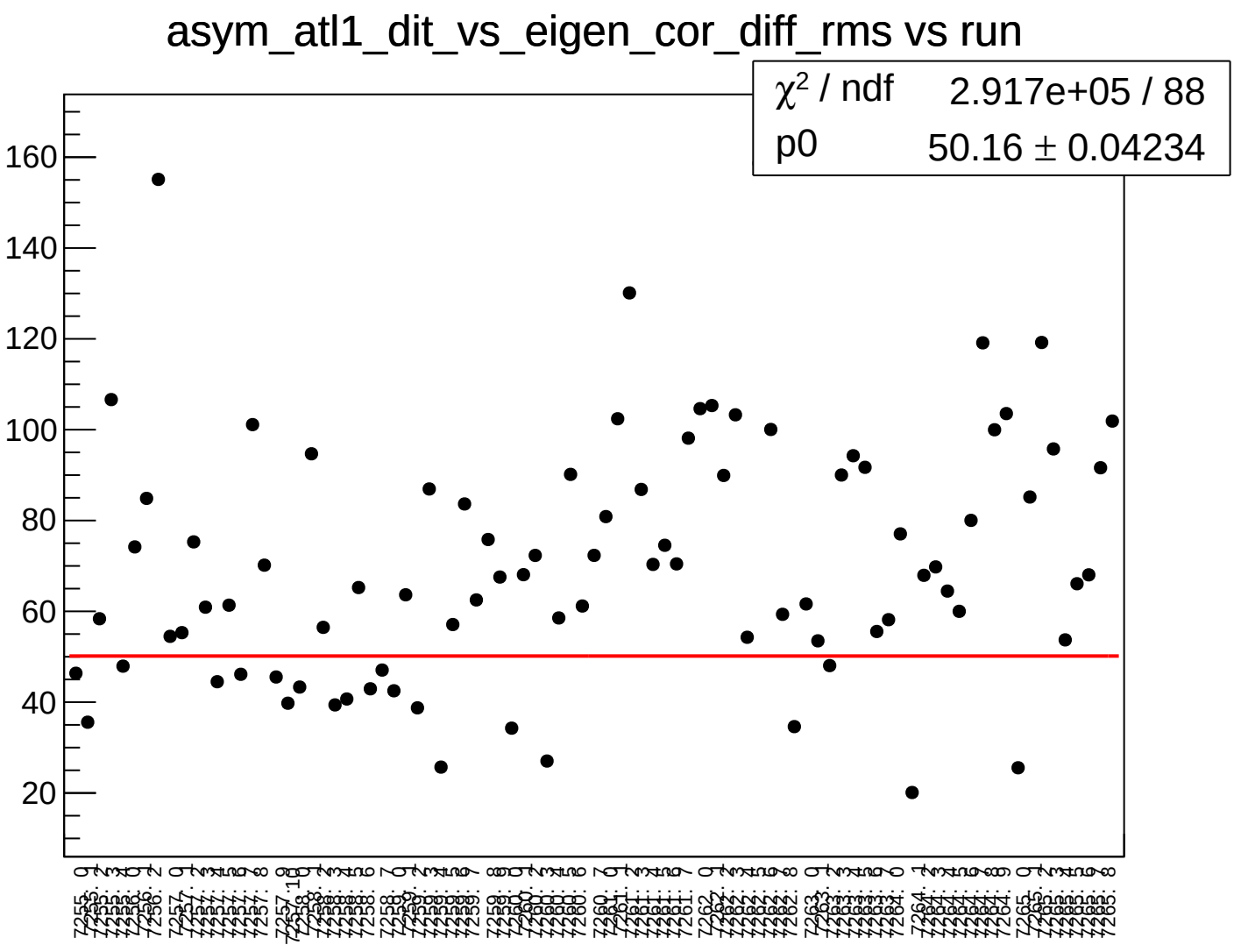

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.087e+05 / 88
p0 1.388e−11 ± 1.565e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

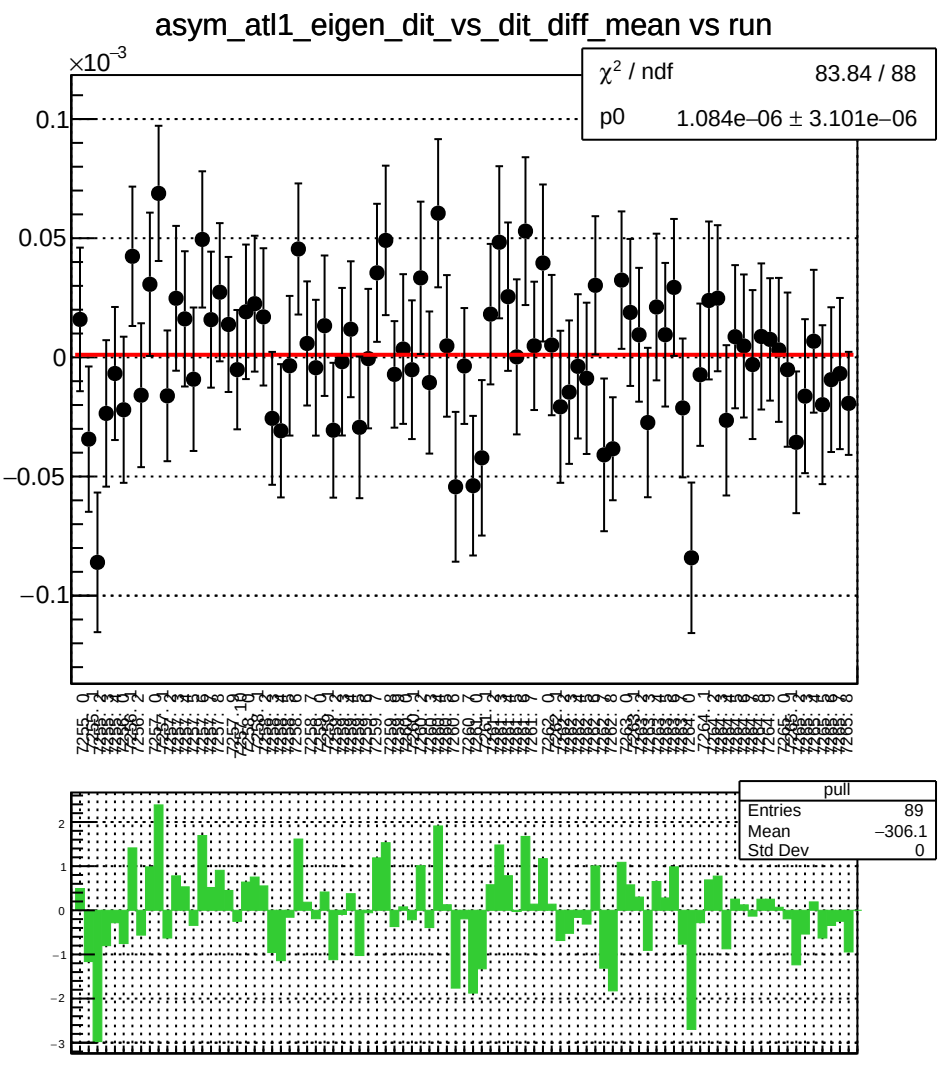

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 76.05 / 88
p0 0.01336 ± 0.05988
pull
Entries 89
Mean −7.056
Std Dev 0
pull1D
Entries 89
Mean 0.06617
Std Dev 0.922

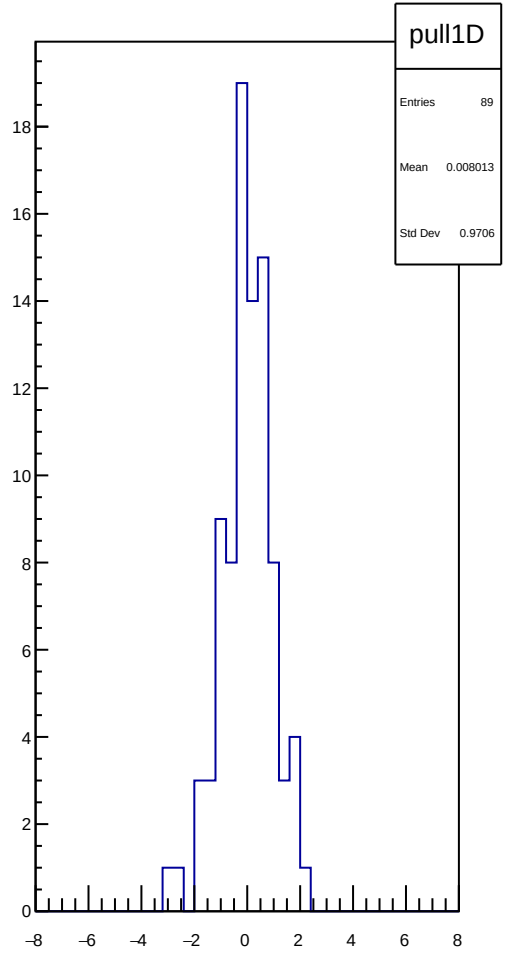

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.917e+05 / 88
p0 50.16 ± 0.04234
160
140
120
100
80
60
40
20

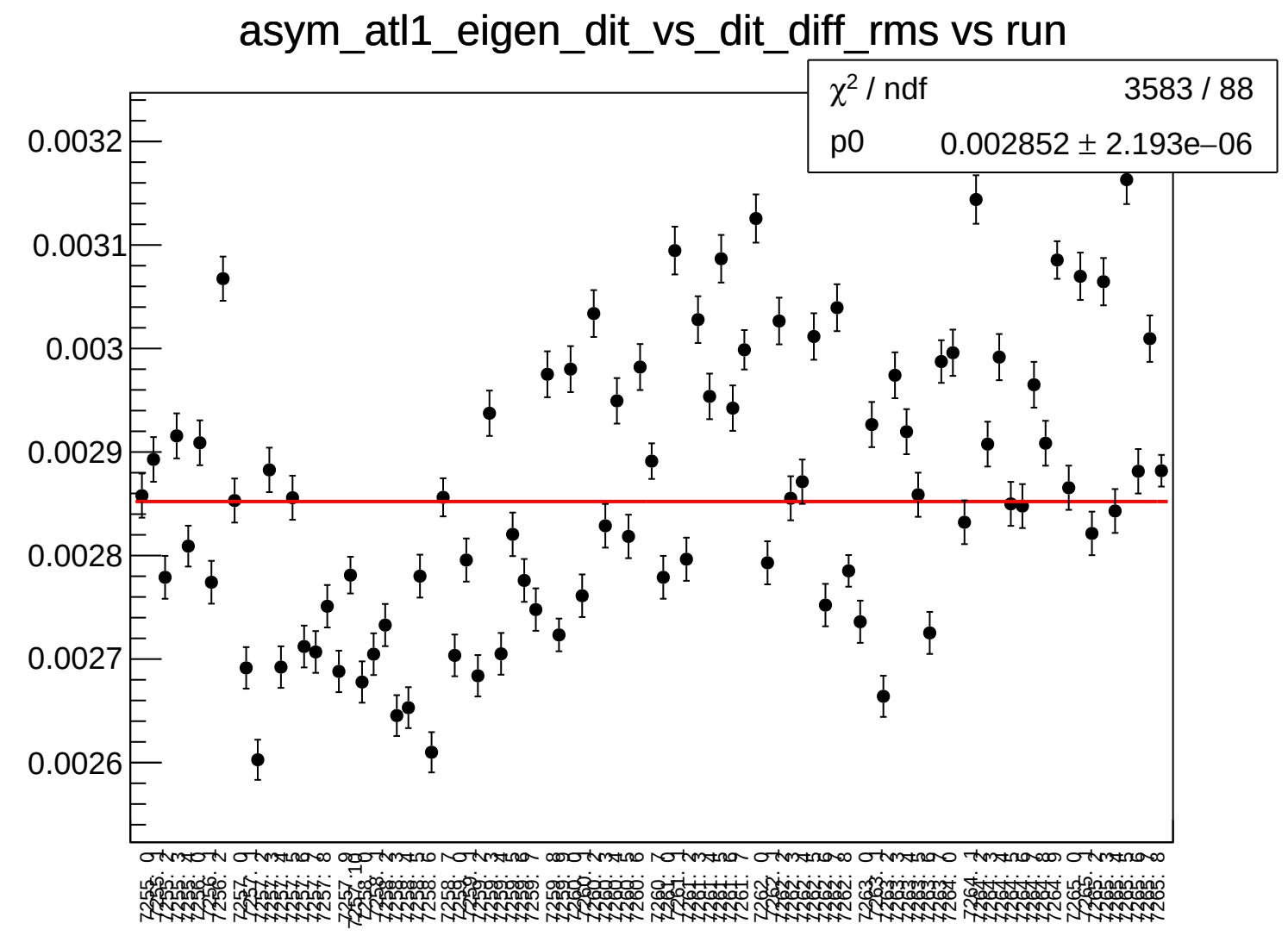

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.05 / 88
p0 0.01336 ± 0.05988
pull
Entries 89
Mean −7.056
Std Dev 0

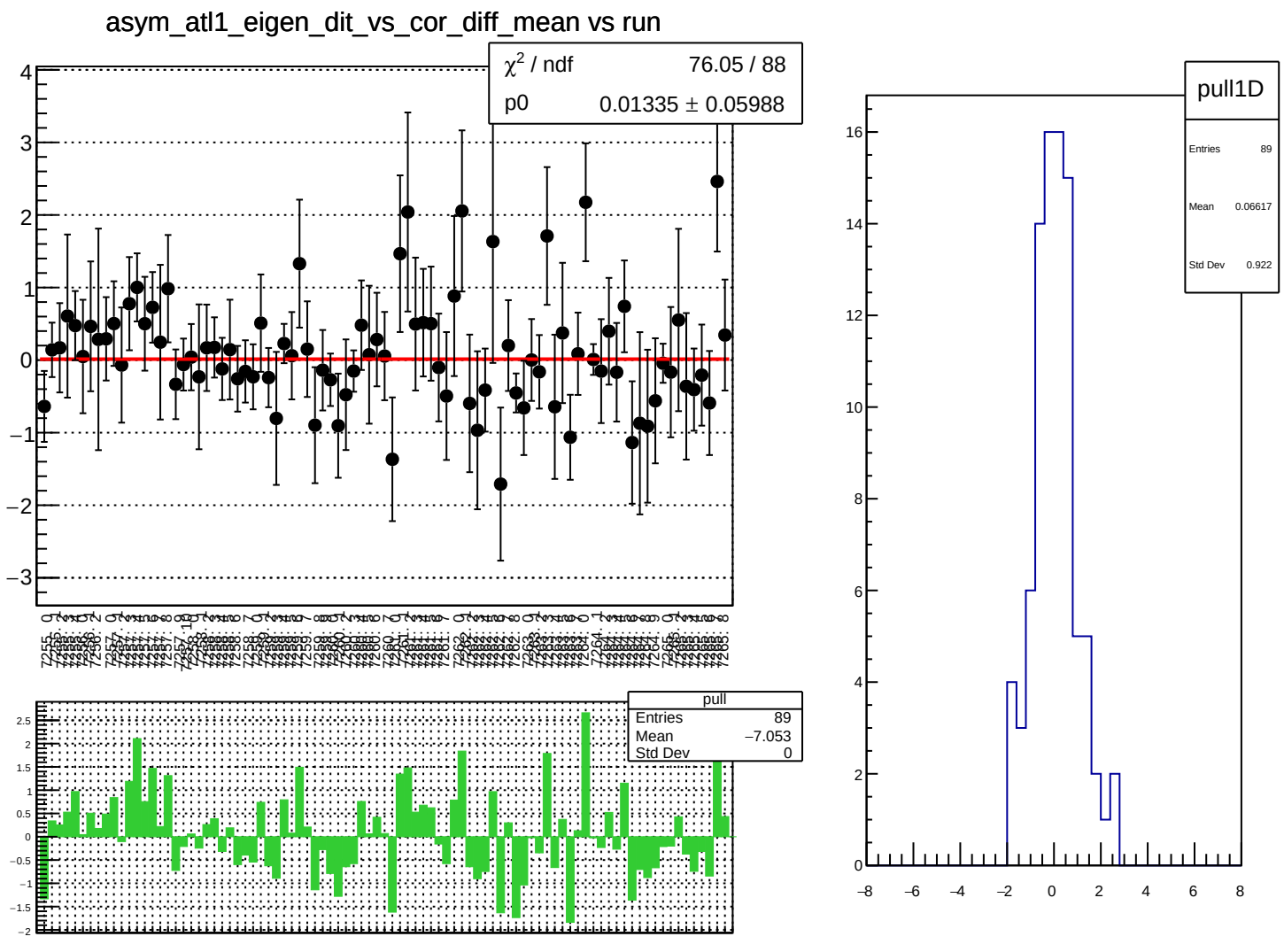

pull1D
Entries 89
Mean 0.06617
Std Dev 0.922

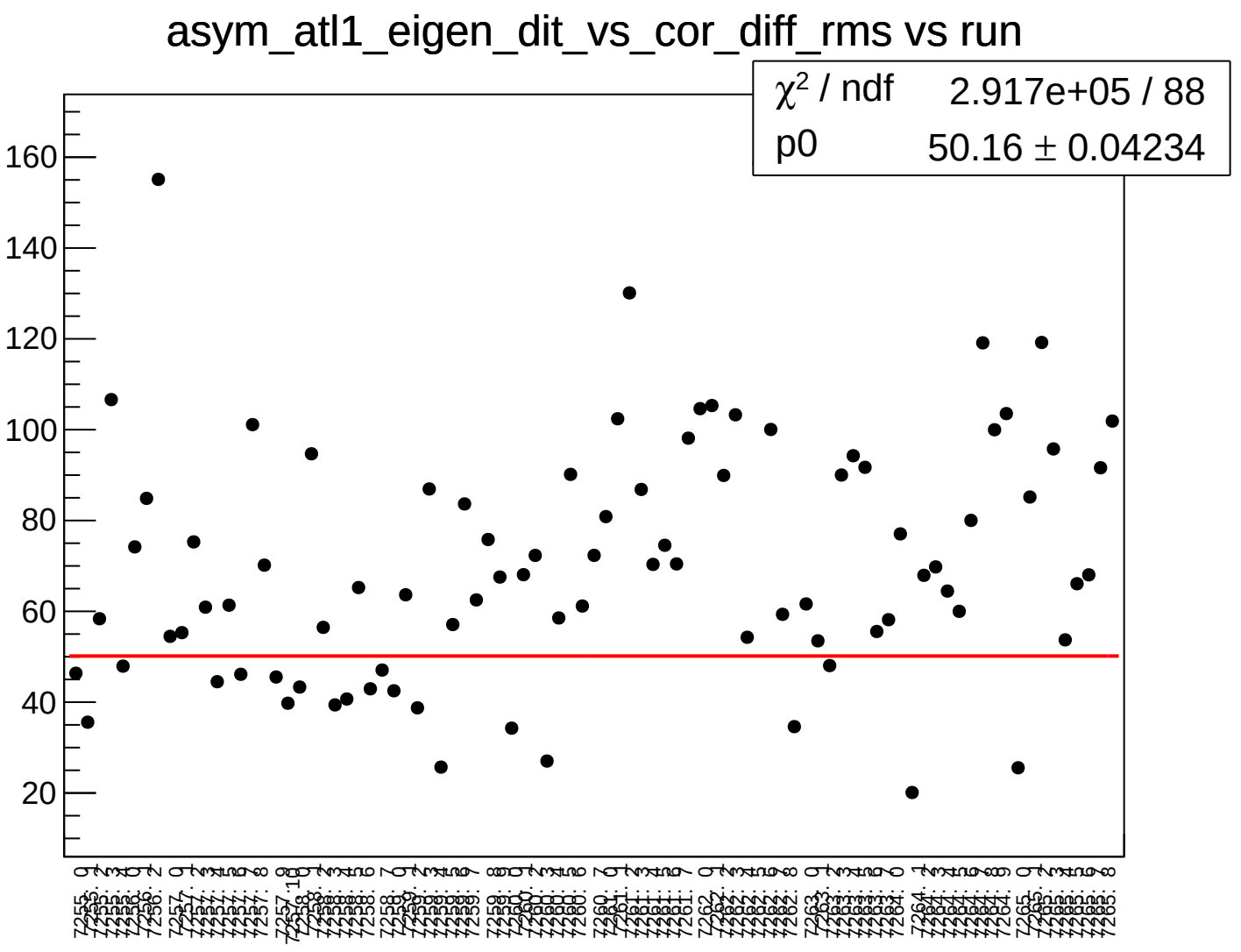

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.917e+05 / 88
p0 50.16 ± 0.04234
160
140
120
100
80
60
40
20

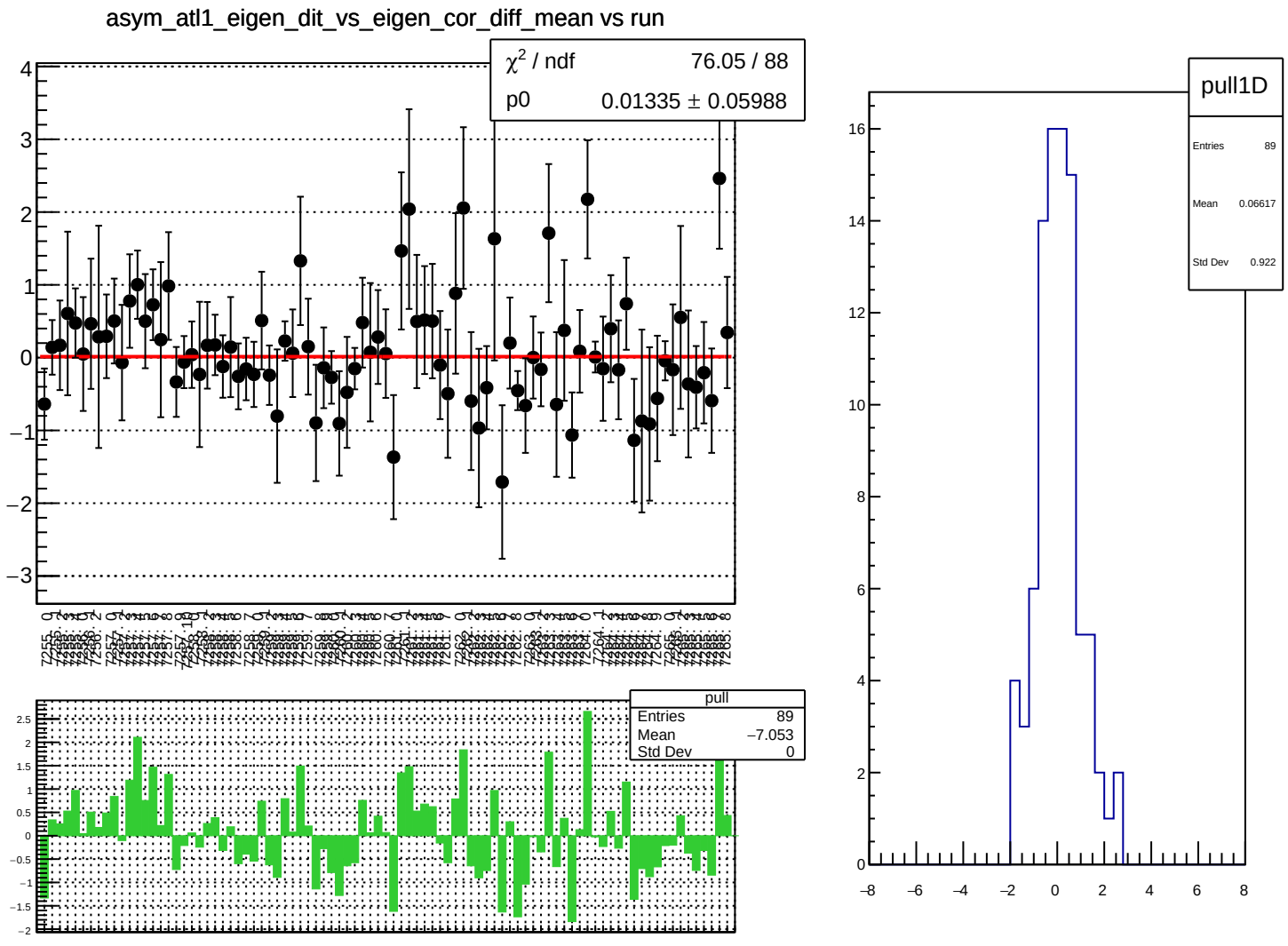

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.84 / 88
p0 1.084e−06 ± 3.101e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −306.1
Std Dev 0
2
1
0
−1
−2
−3

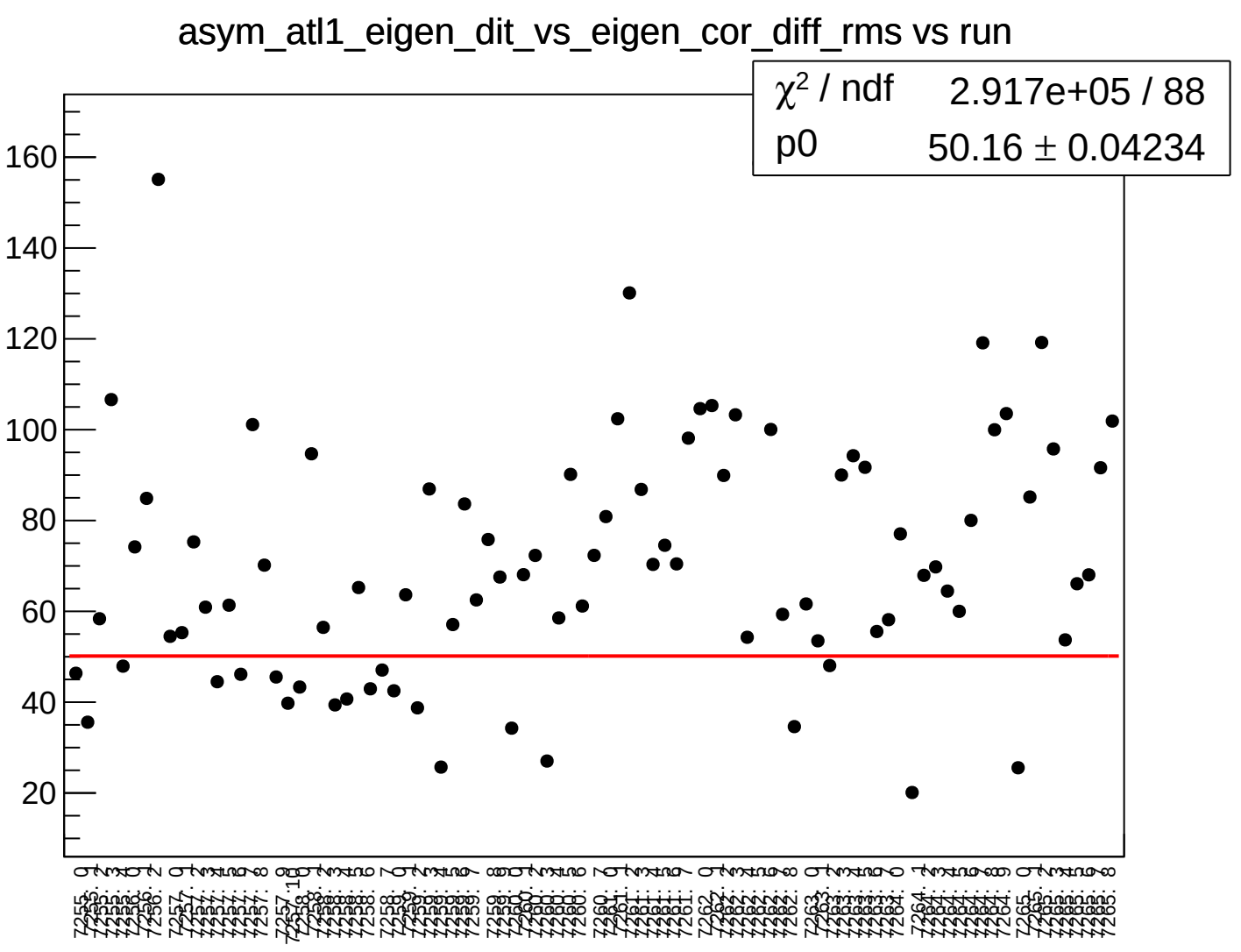

pull1D
Entries 89
Mean 0.008013
Std Dev 0.9706
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

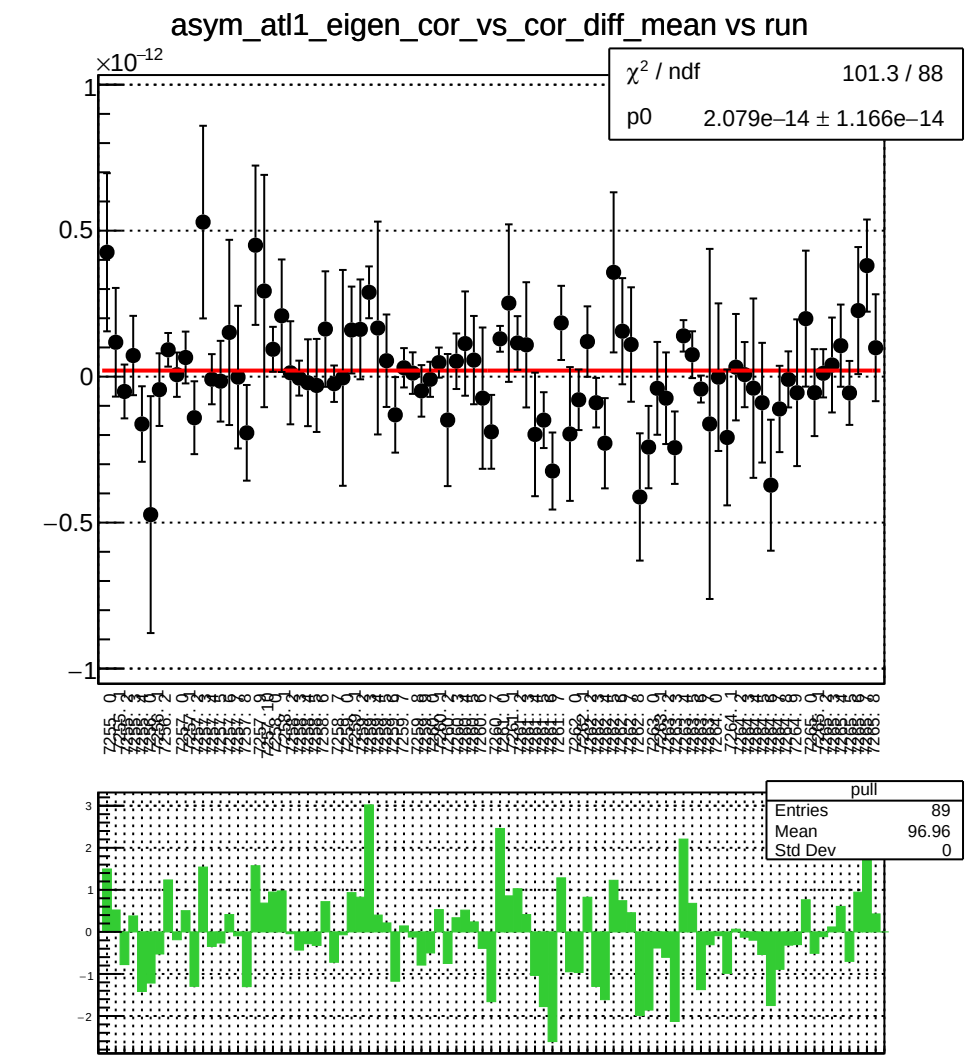

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3583 / 88
p0 0.002852 ± 2.193e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026

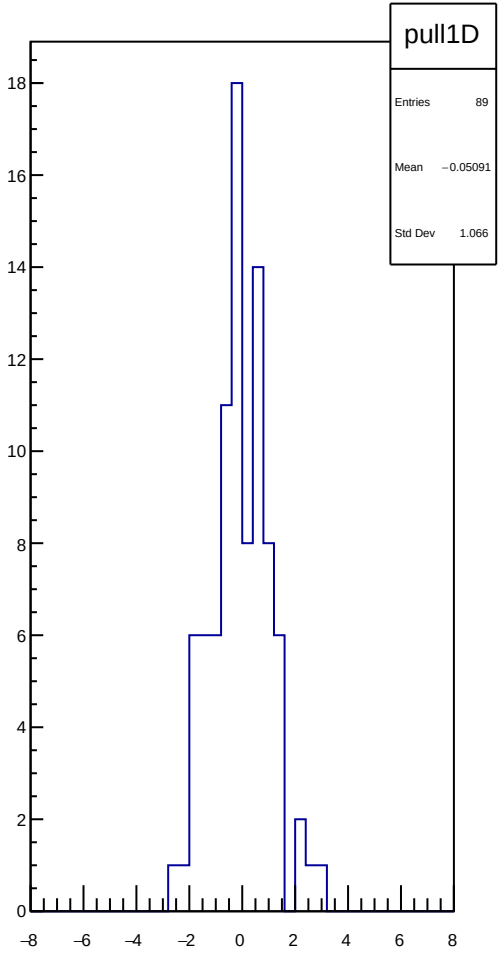

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.05 / 88
p0 0.01335 ± 0.05988
pull
Entries 89
Mean −7.053
Std Dev 0
pull1D
Entries 89
Mean 0.06617
Std Dev 0.922

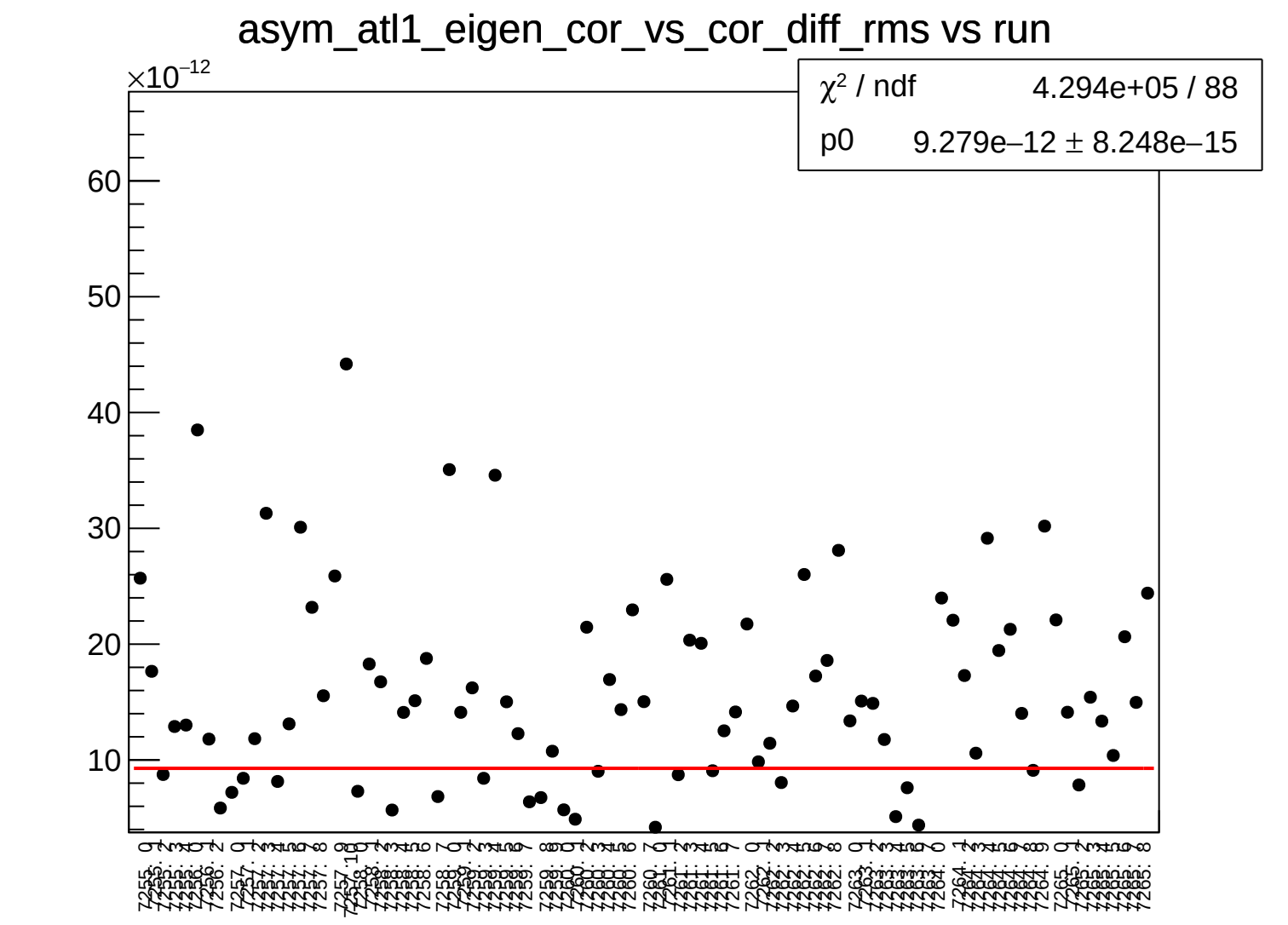

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.917e+05 / 88
p0 50.16 ± 0.04234
160
140
120
100
80
60
40
20

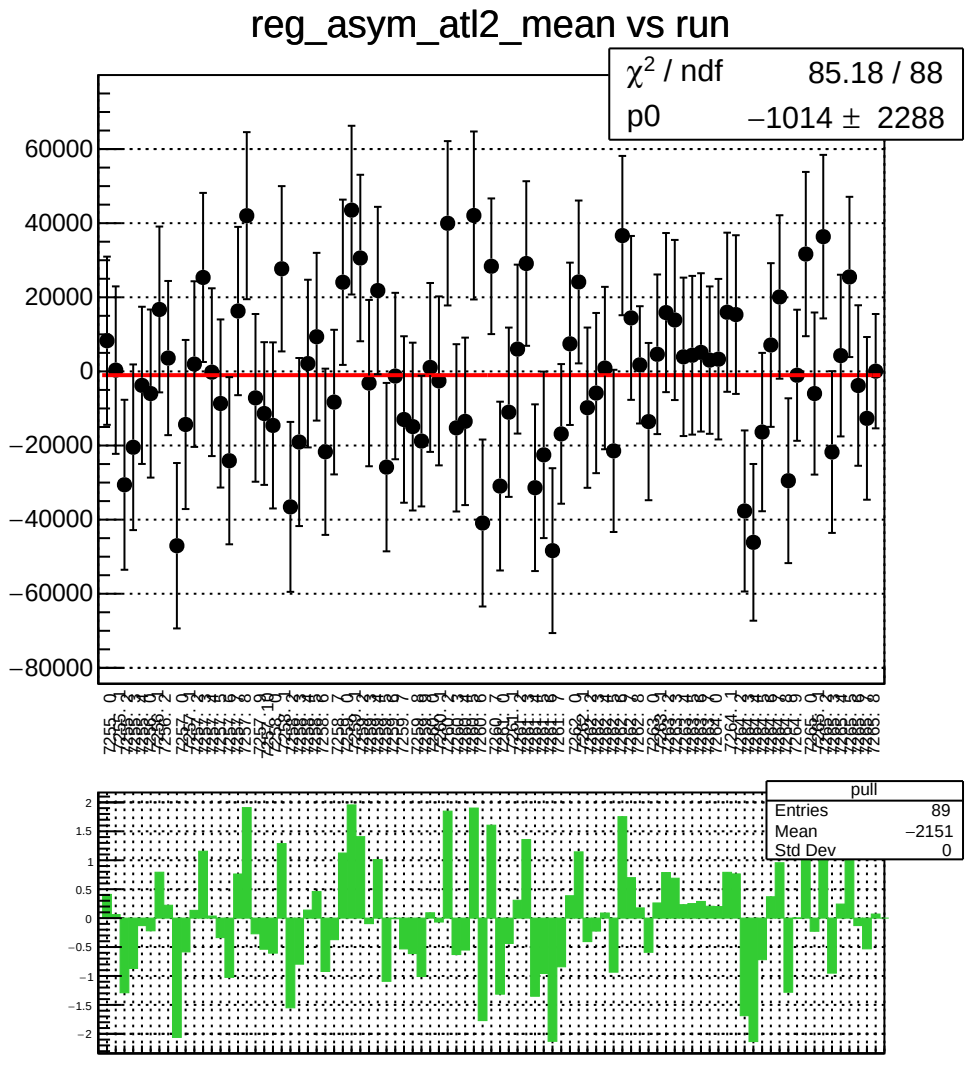

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.05 / 88
p0 0.01335 ± 0.05988
pull
Entries 89
Mean −7.053
Std Dev 0
pull1D
Entries 89
Mean 0.06617
Std Dev 0.922

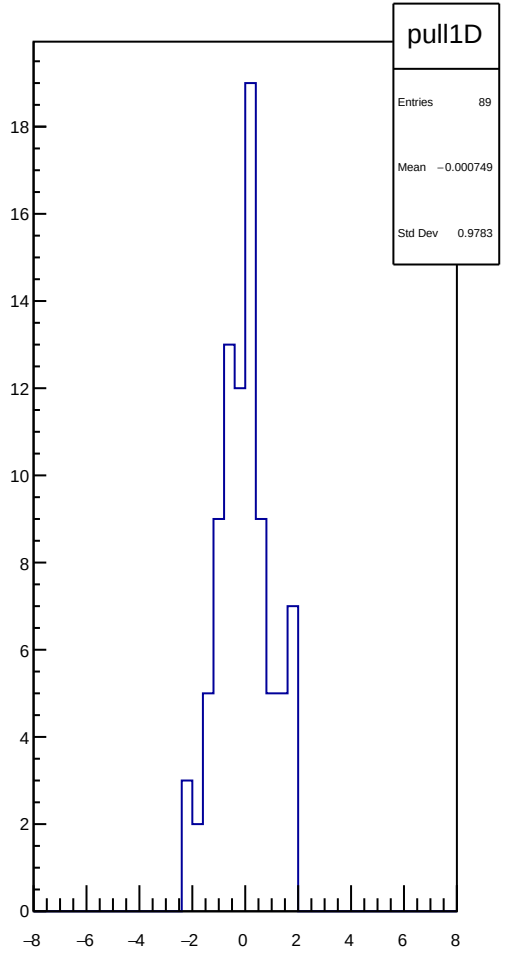

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.917e+05 / 88
p0 50.16 ± 0.04234
160
140
120
100
80
60
40
20

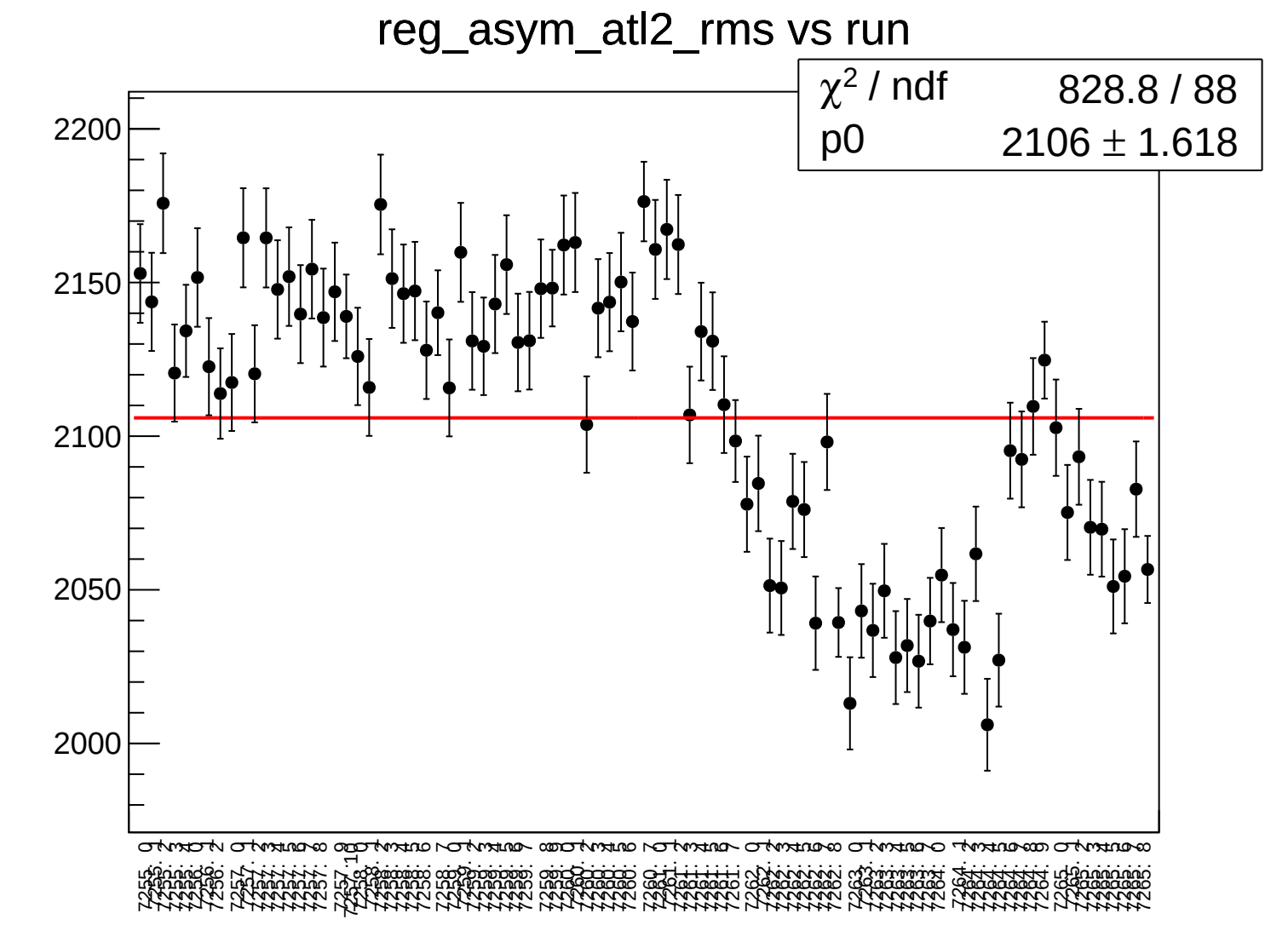

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.3 / 88
p0 2.079e−14 ± 1.166e−14
pull
Entries 89
Mean 96.96
Std Dev 0

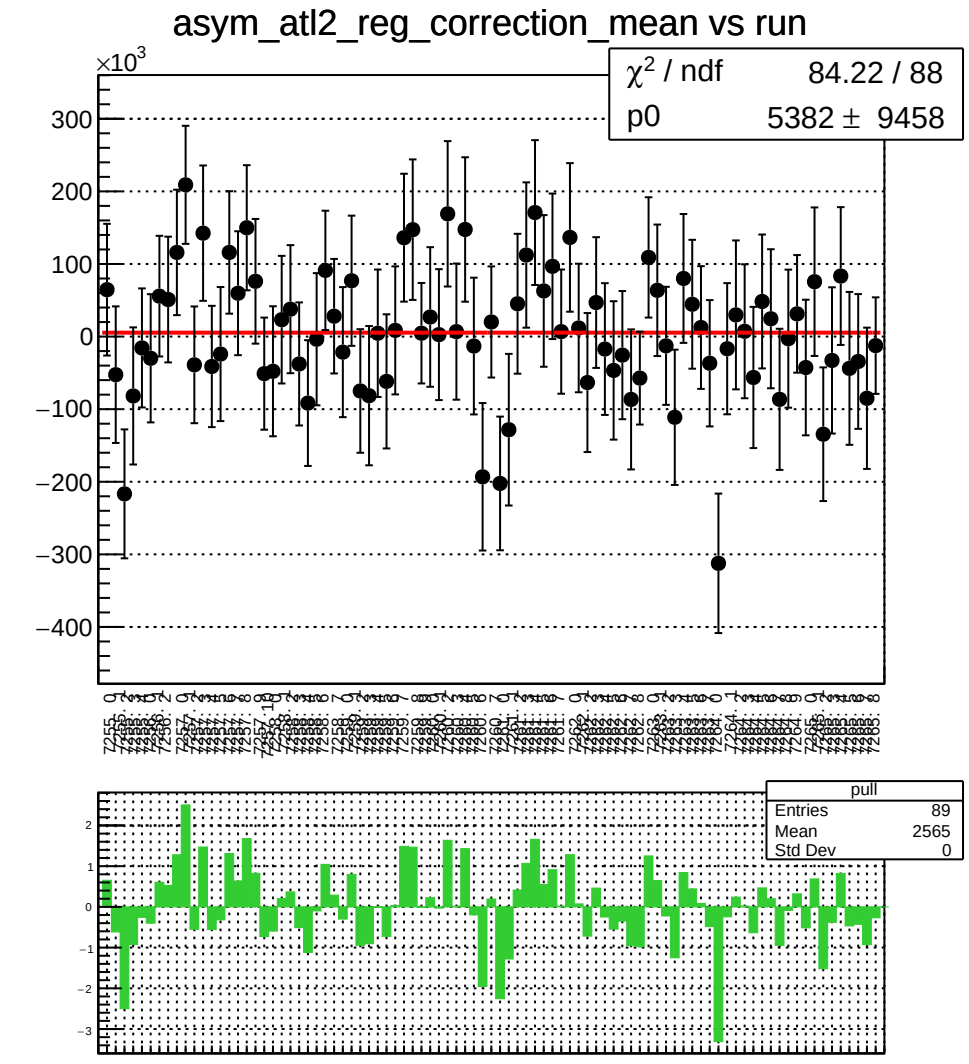

pull1D
Entries 89
Mean −0.05091
Std Dev 1.066

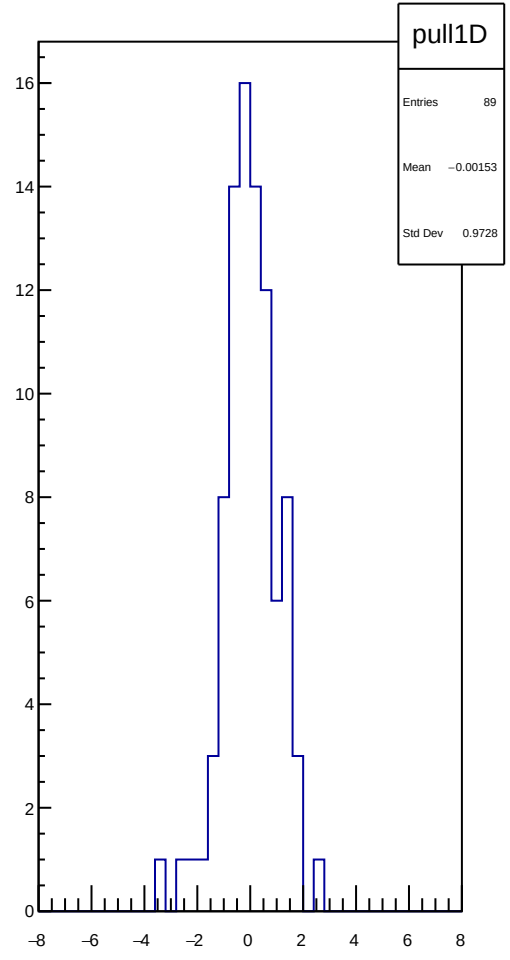

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.294e+05 / 88
p0 9.279e−12 ± 8.248e−15
60
50
40
30
20
10

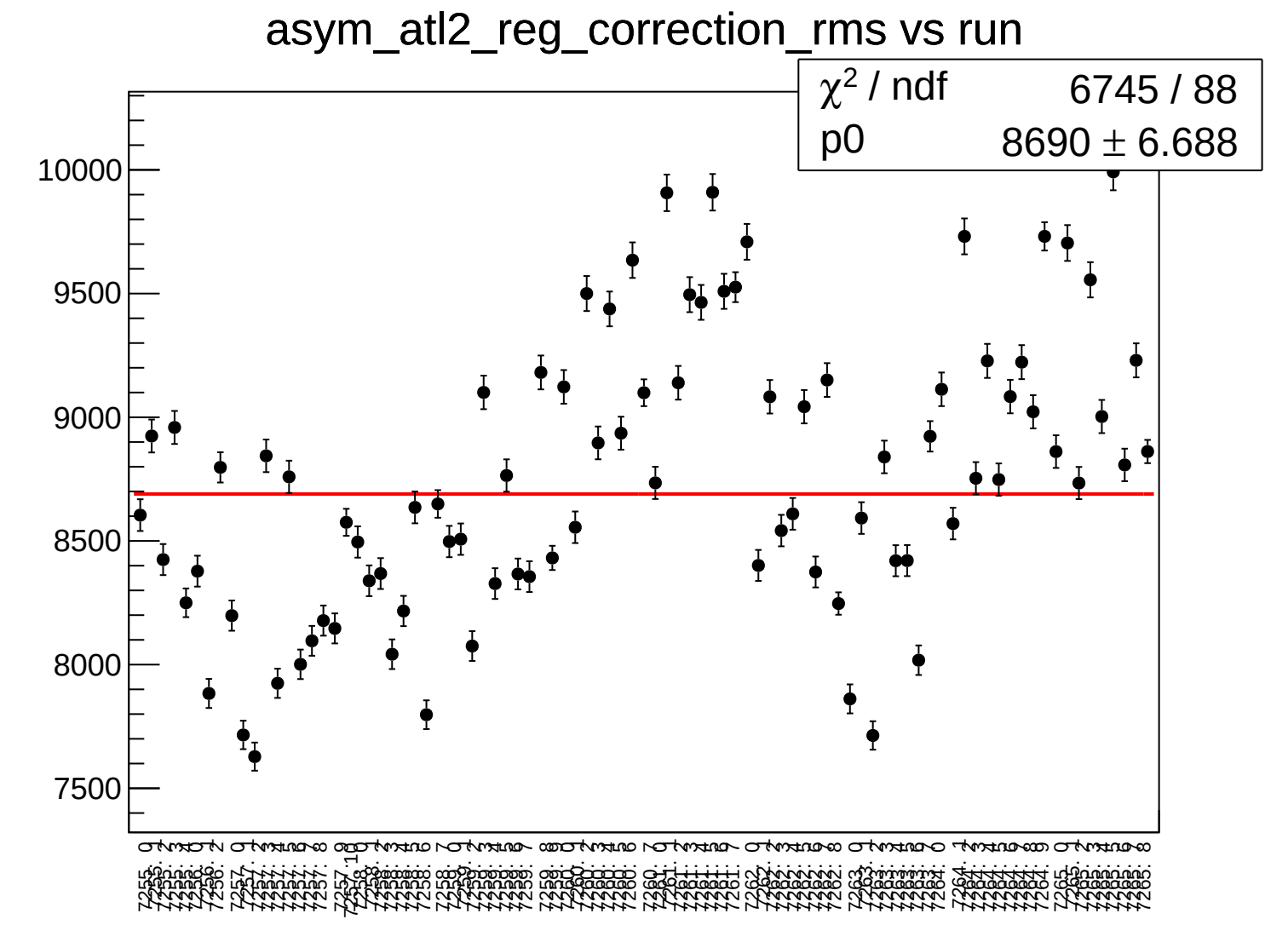

reg_asym_atl2_mean vs run
χ² / ndf 85.18 / 88
p0 −1014 ± 2288
pull
Entries 89
Mean −2151
Std Dev 0

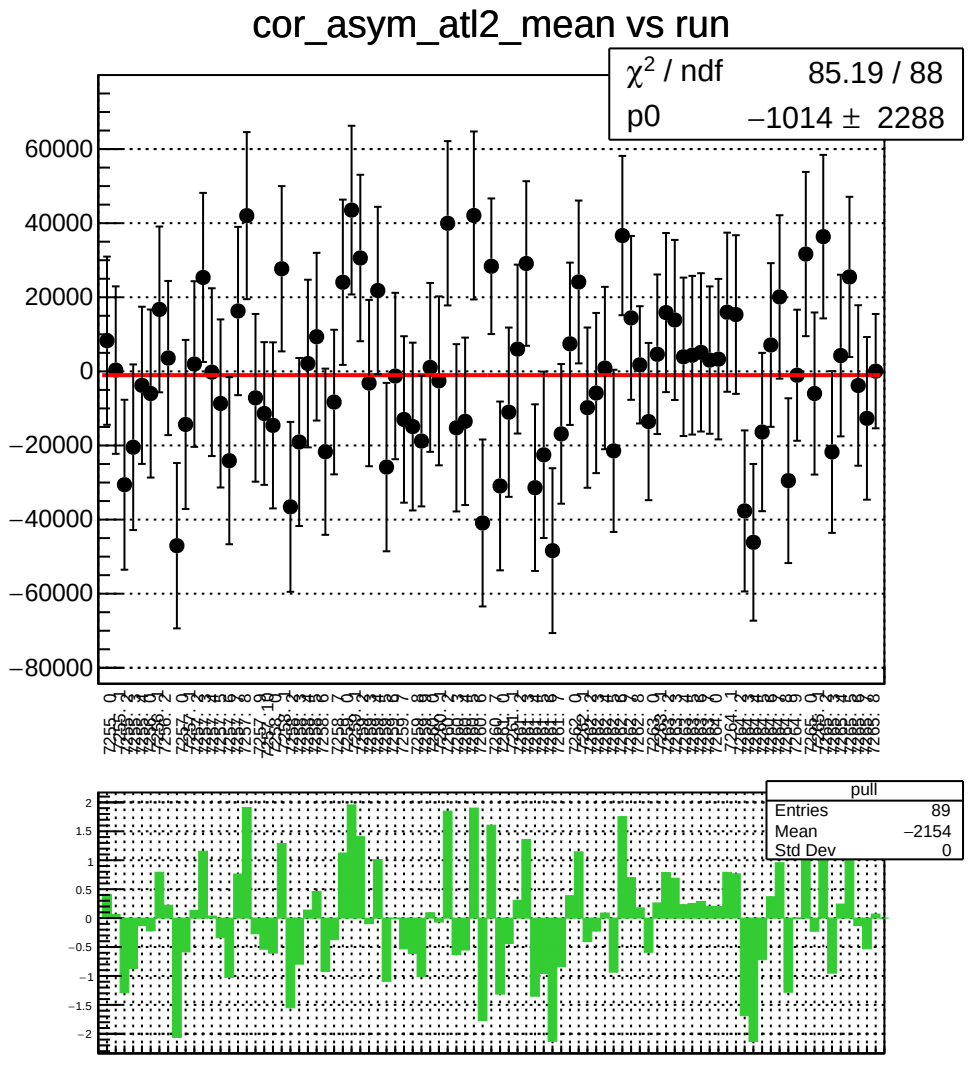

pull1D
Entries 89
Mean −0.000749
Std Dev 0.9783

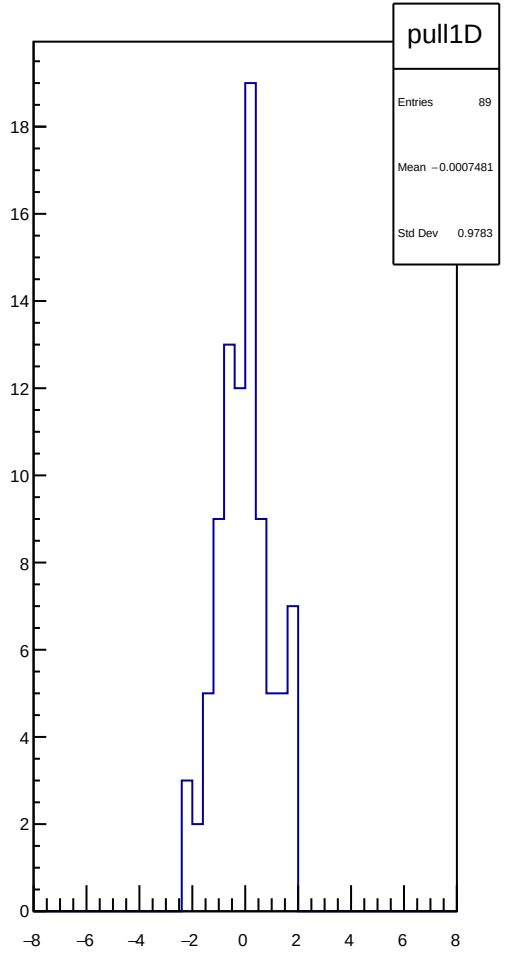

reg_asym_atl2_rms vs run
χ^2 / ndf 828.8 / 88
p0 2106 ± 1.618
2200
2150
2100
2050
2000

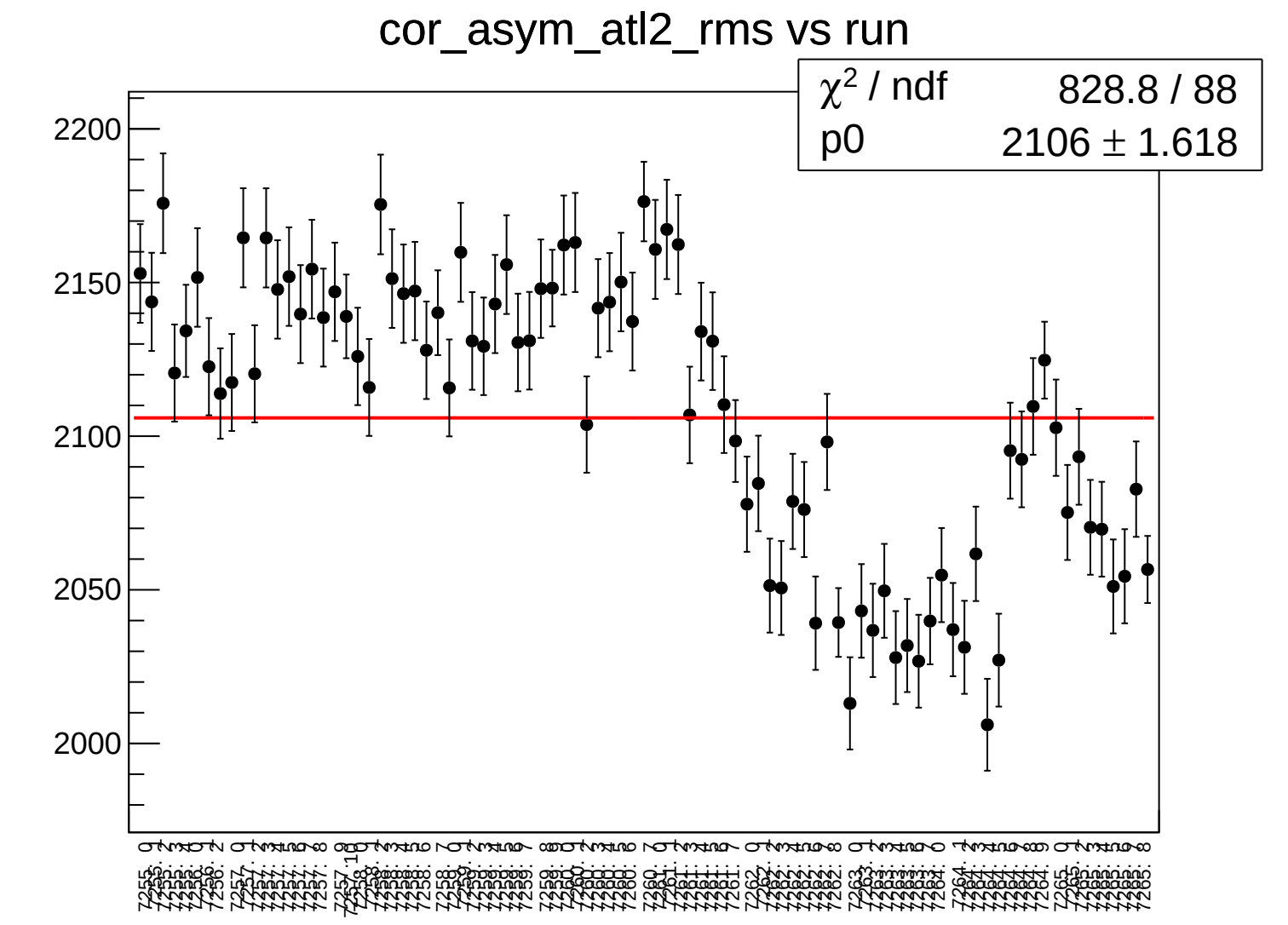

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 84.22 / 88
p0 5382 ± 9458
pull
Entries 89
Mean 2565
Std Dev 0

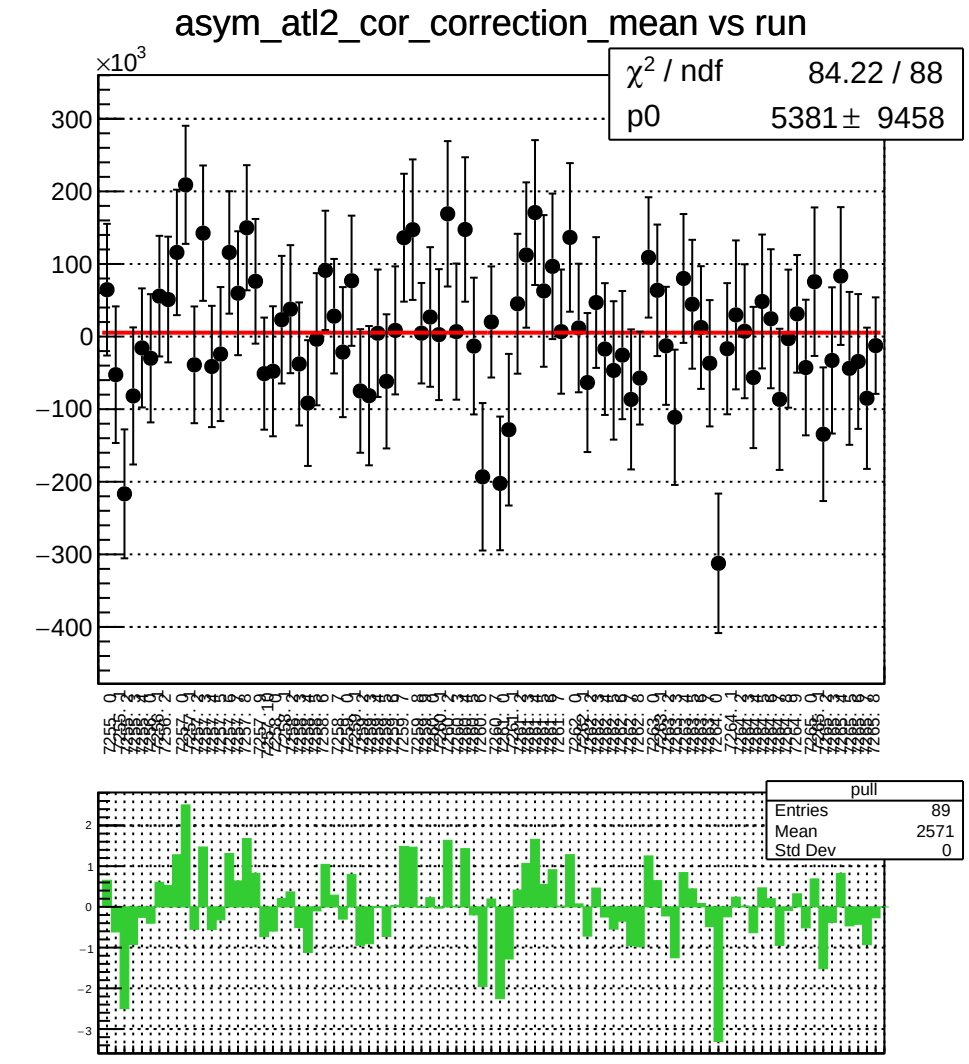

pull1D
Entries 89
Mean −0.00153
Std Dev 0.9728

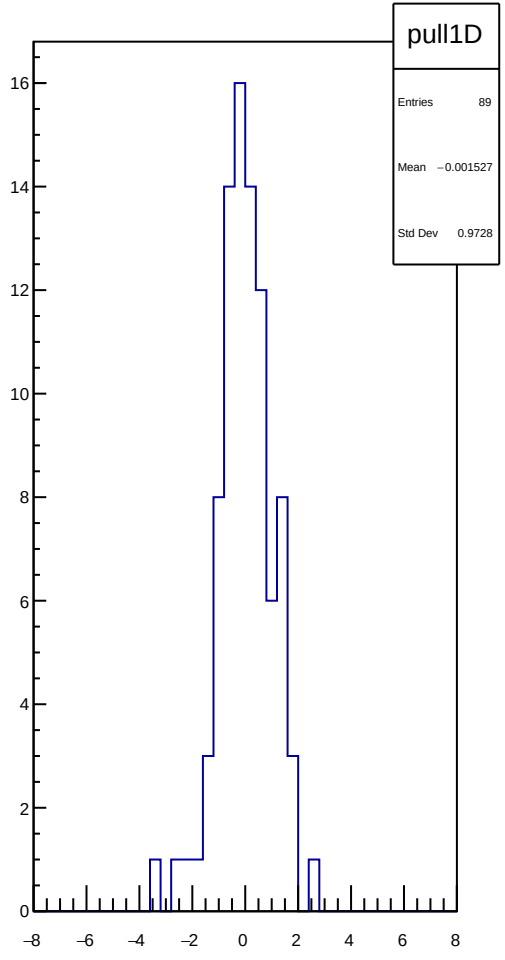

asym_atl2_reg_correction_rms vs run
χ² / ndf 6745 / 88
p0 8690 ± 6.688
10000
9500
9000
8500
8000
7500

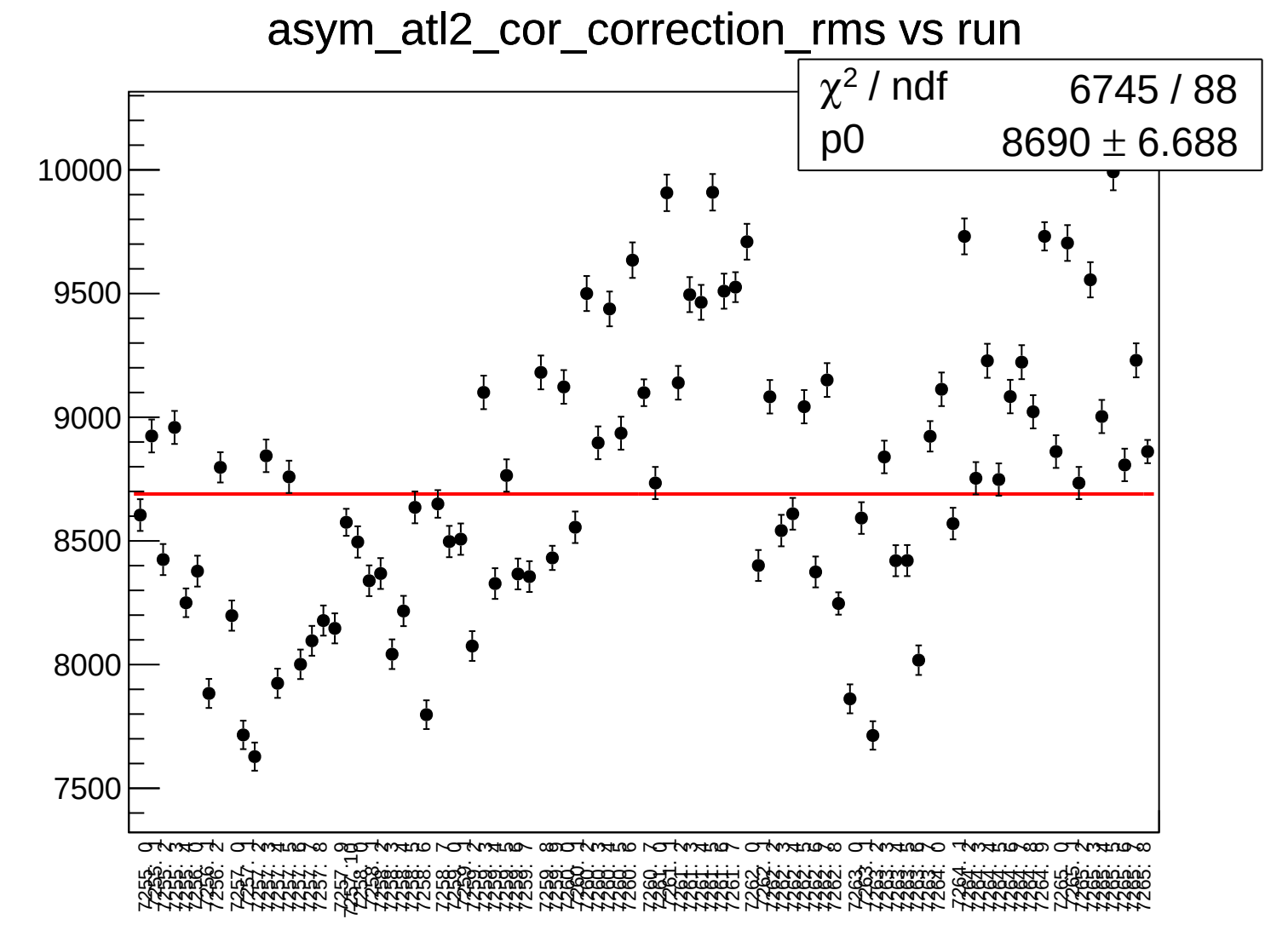

cor_asym_atl2_mean vs run
χ² / ndf 85.19 / 88
p0 −1014 ± 2288
pull
Entries 89
Mean −2154
Std Dev 0

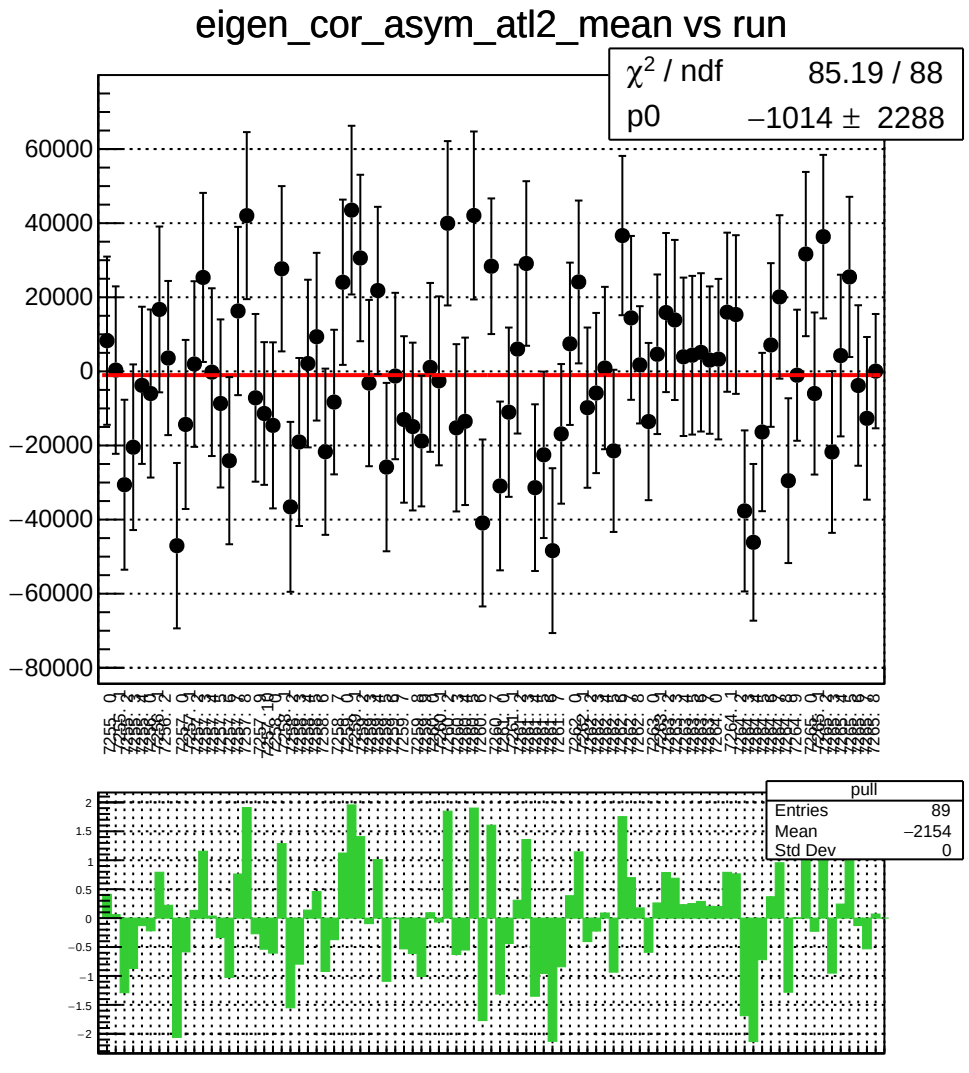

pull1D
Entries 89
Mean −0.0007481
Std Dev 0.9783

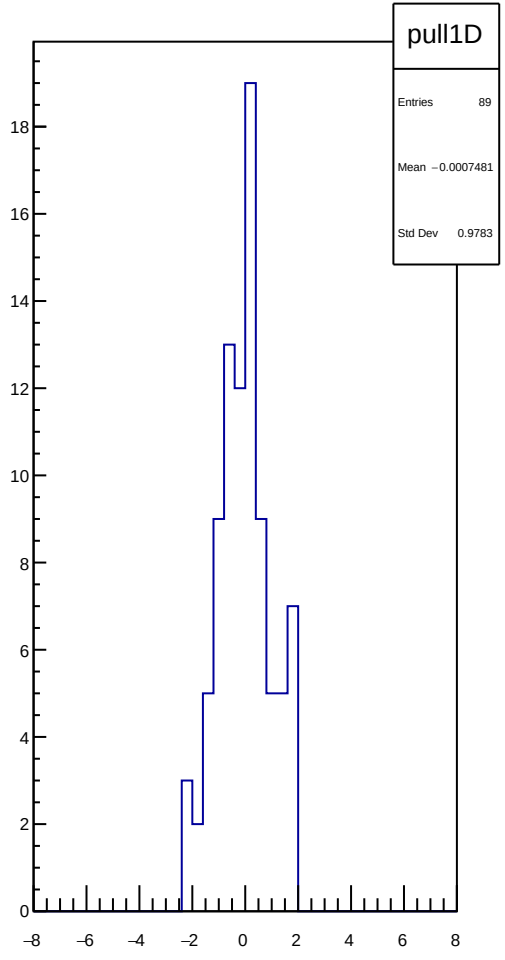

cor_asym_atl2_rms vs run
χ² / ndf 828.8 / 88
p0 2106 ± 1.618
2200
2150
2100
2050
2000

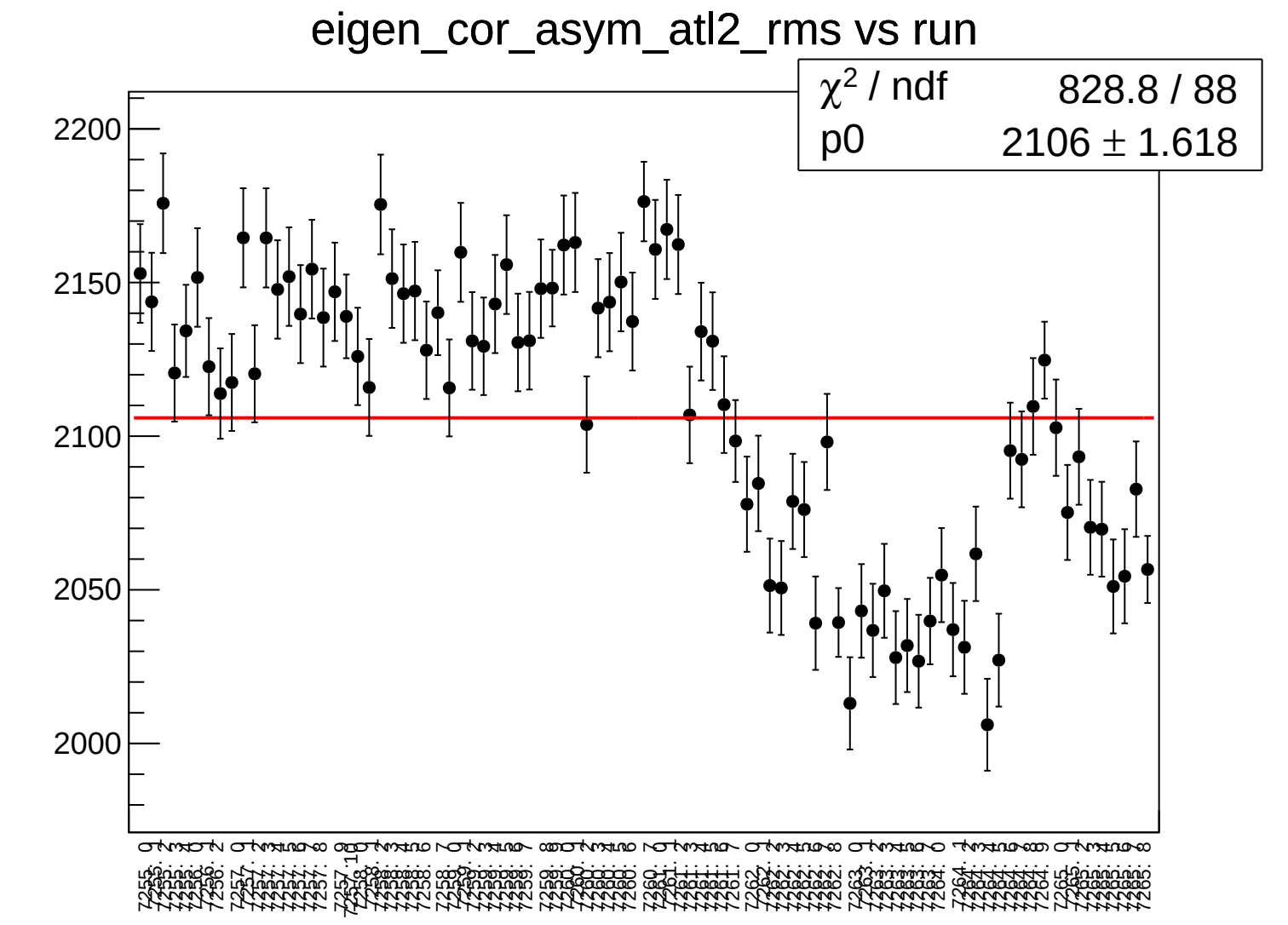

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 84.22 / 88
p0 5381 ± 9458
300
200
100
0
−100
−200
−300
−400
pull
Entries 89
Mean 2571
Std Dev 0
2
1
0
−1
−2
−3

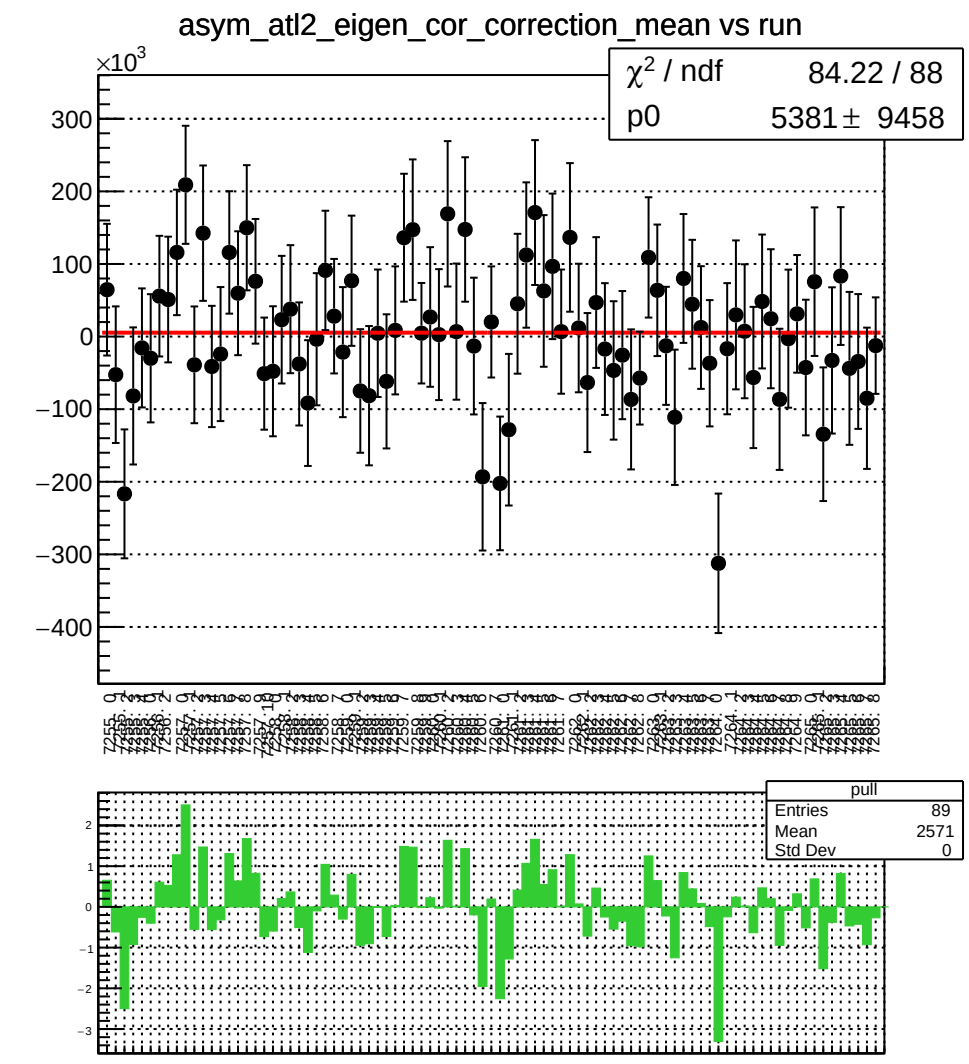

pull1D
Entries 89
Mean −0.001527
Std Dev 0.9728
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

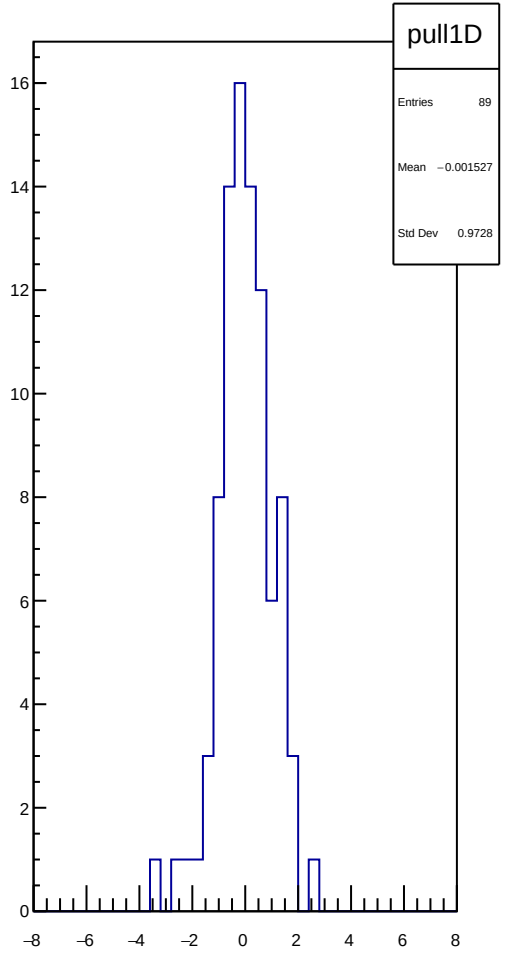

asym_atl2_cor_correction_rms vs run
χ² / ndf 6745 / 88
p0 8690 ± 6.688
10000
9500
9000
8500
8000
7500

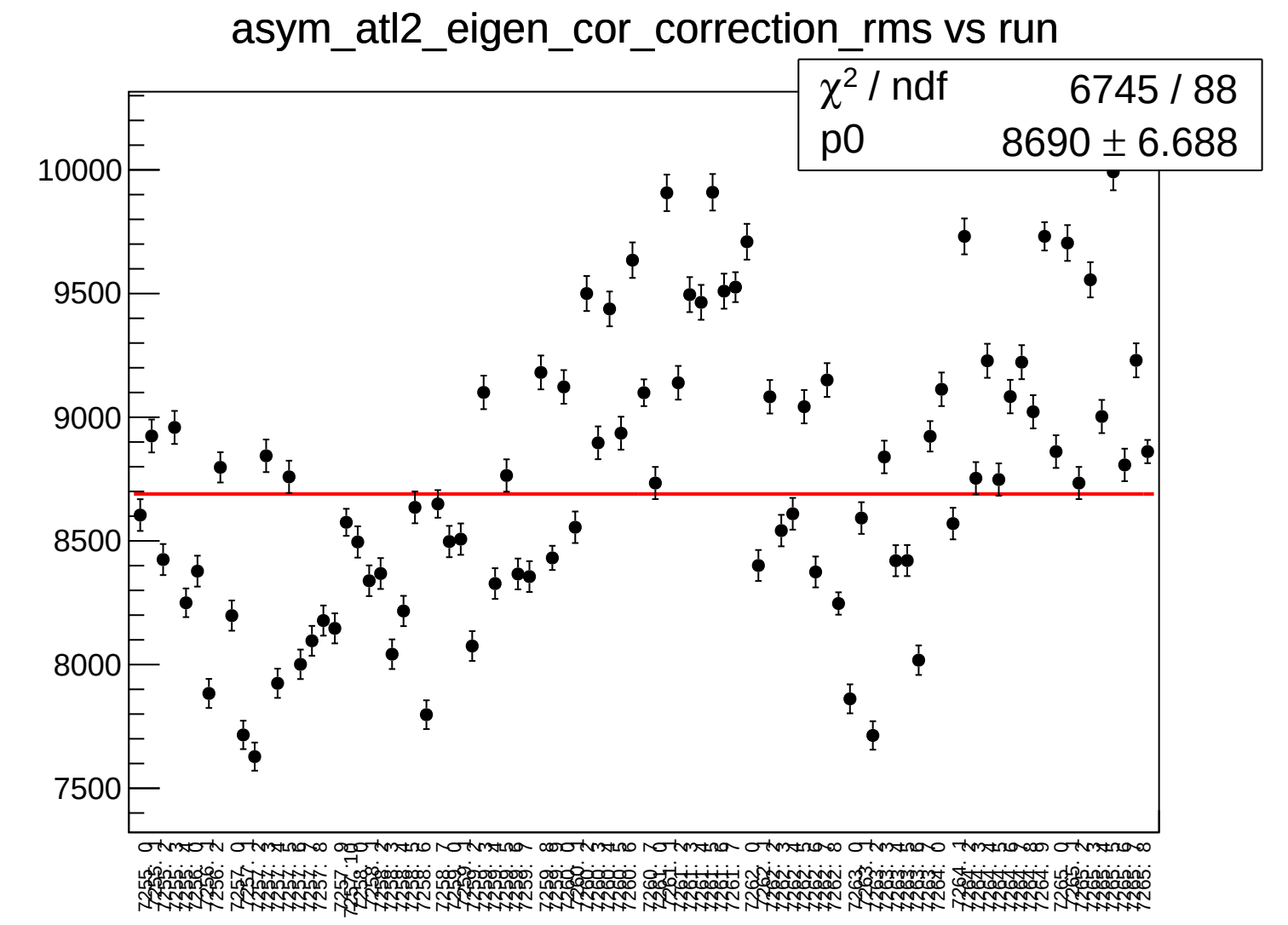

eigen_cor_asym_atl2_mean vs run
χ² / ndf 85.19 / 88
p0 −1014 ± 2288
pull
Entries 89
Mean −2154
Std Dev 0

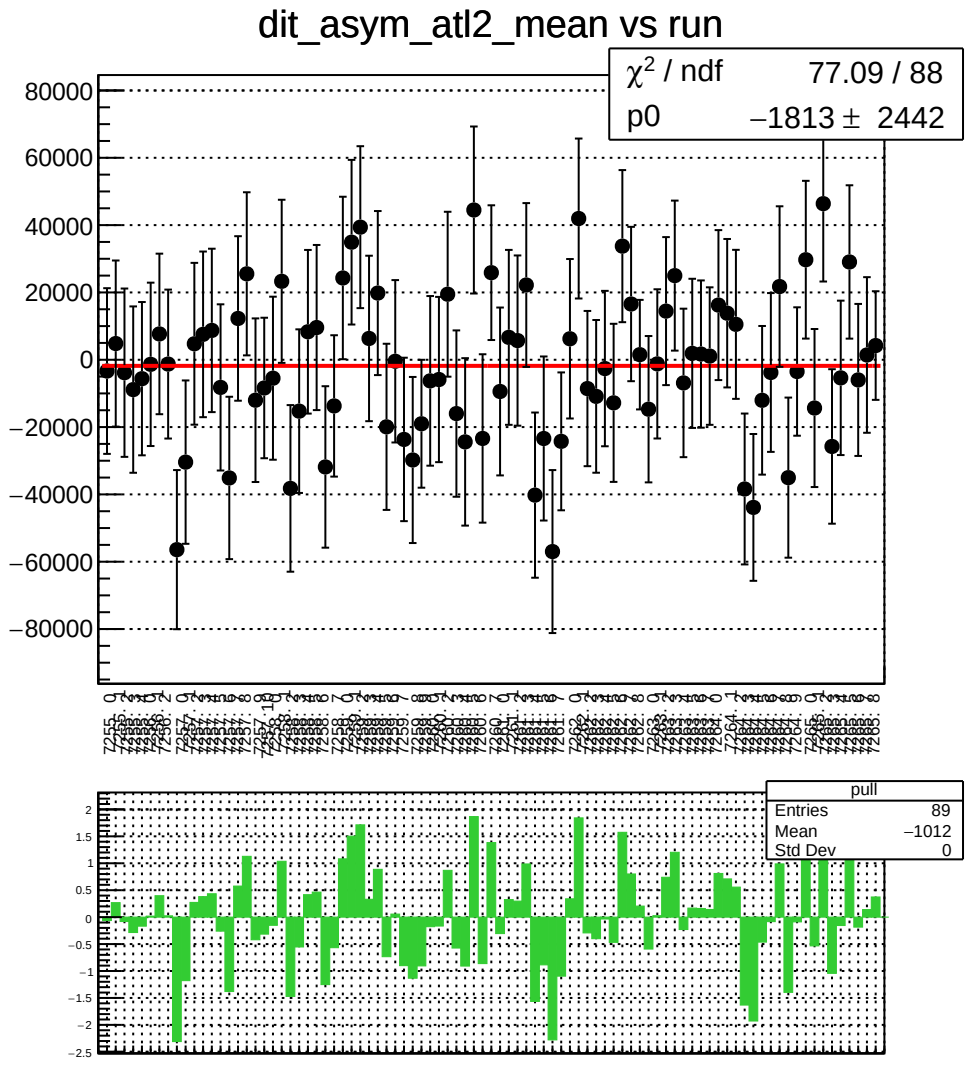

pull1D
Entries 89
Mean −0.0007481
Std Dev 0.9783

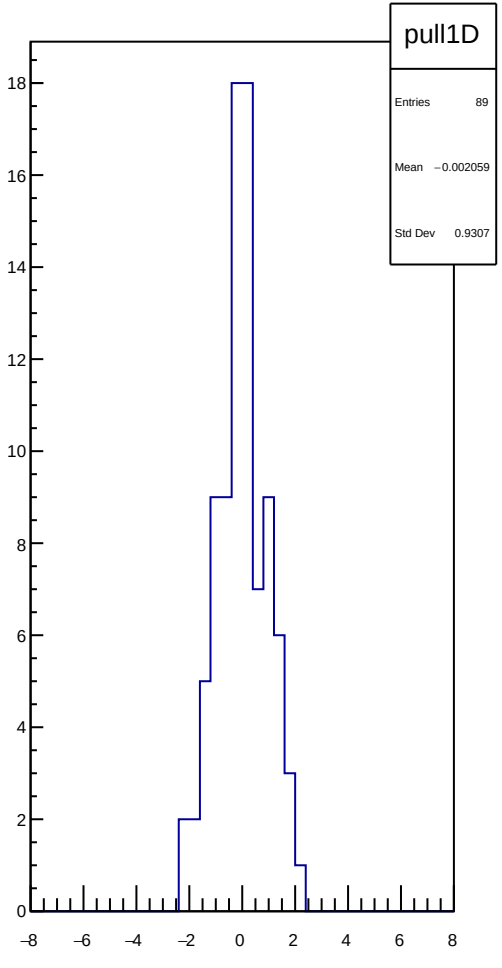

eigen_cor_asym_atl2_rms vs run
χ^2 / ndf 828.8 / 88
p0 2106 ± 1.618
2200
2150
2100
2050
2000

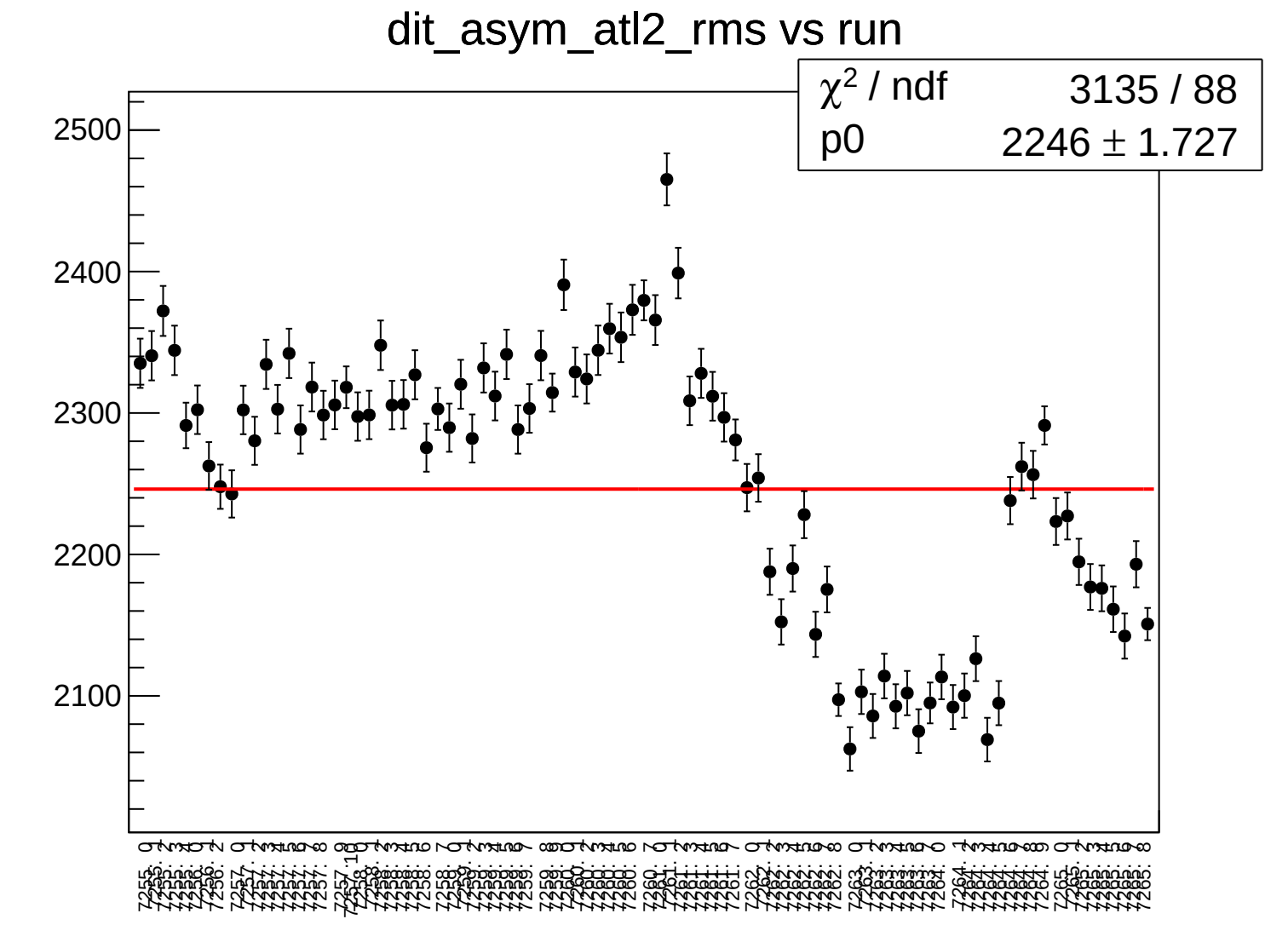

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.22 / 88
p0 5381 ± 9458
300
200
100
0
−100
−200
−300
−400
pull
Entries 89
Mean 2571
Std Dev 0
2
1
0
−1
−2
−3

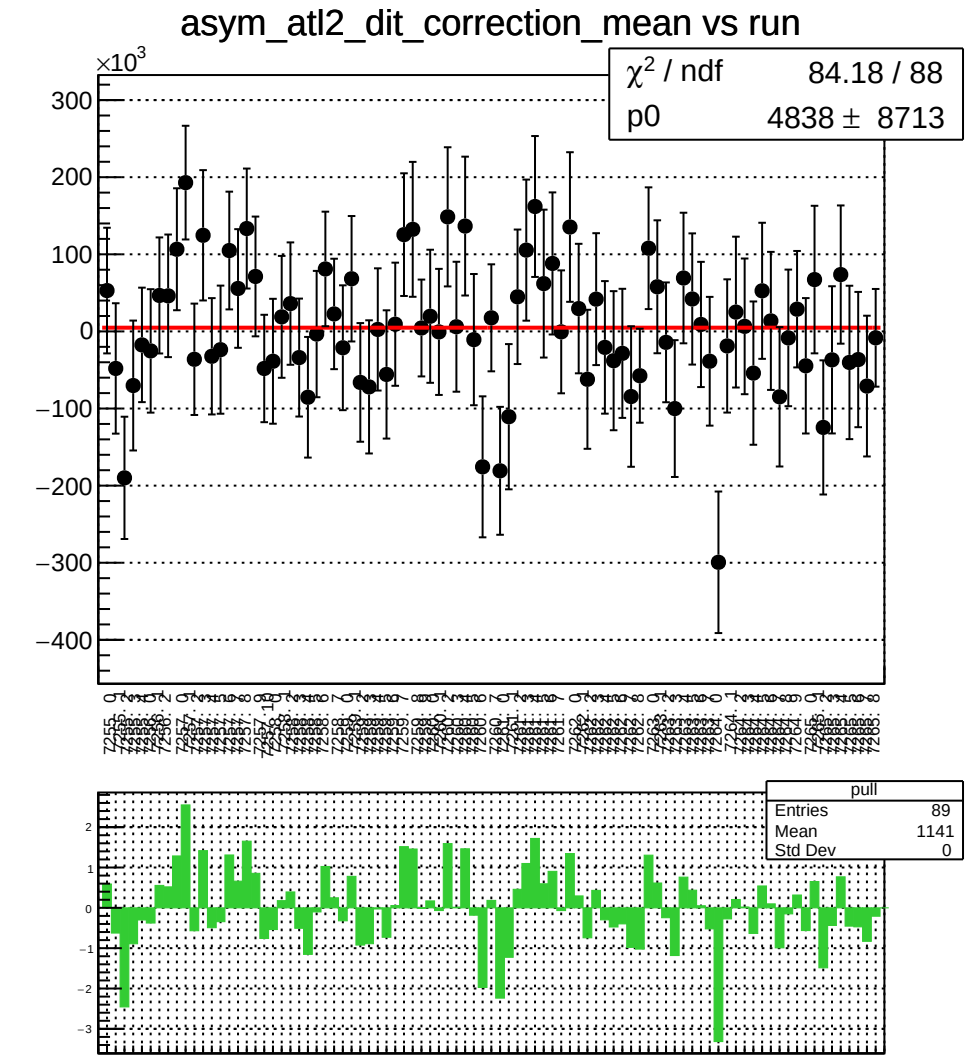

pull1D
Entries 89
Mean −0.001527
Std Dev 0.9728
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

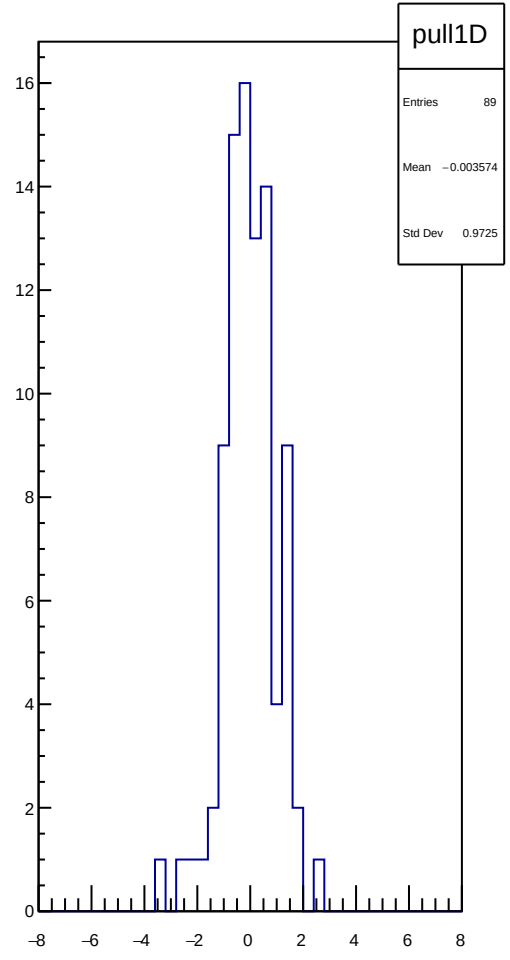

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 6745 / 88
p0 8690 ± 6.688
10000
9500
9000
8500
8000
7500

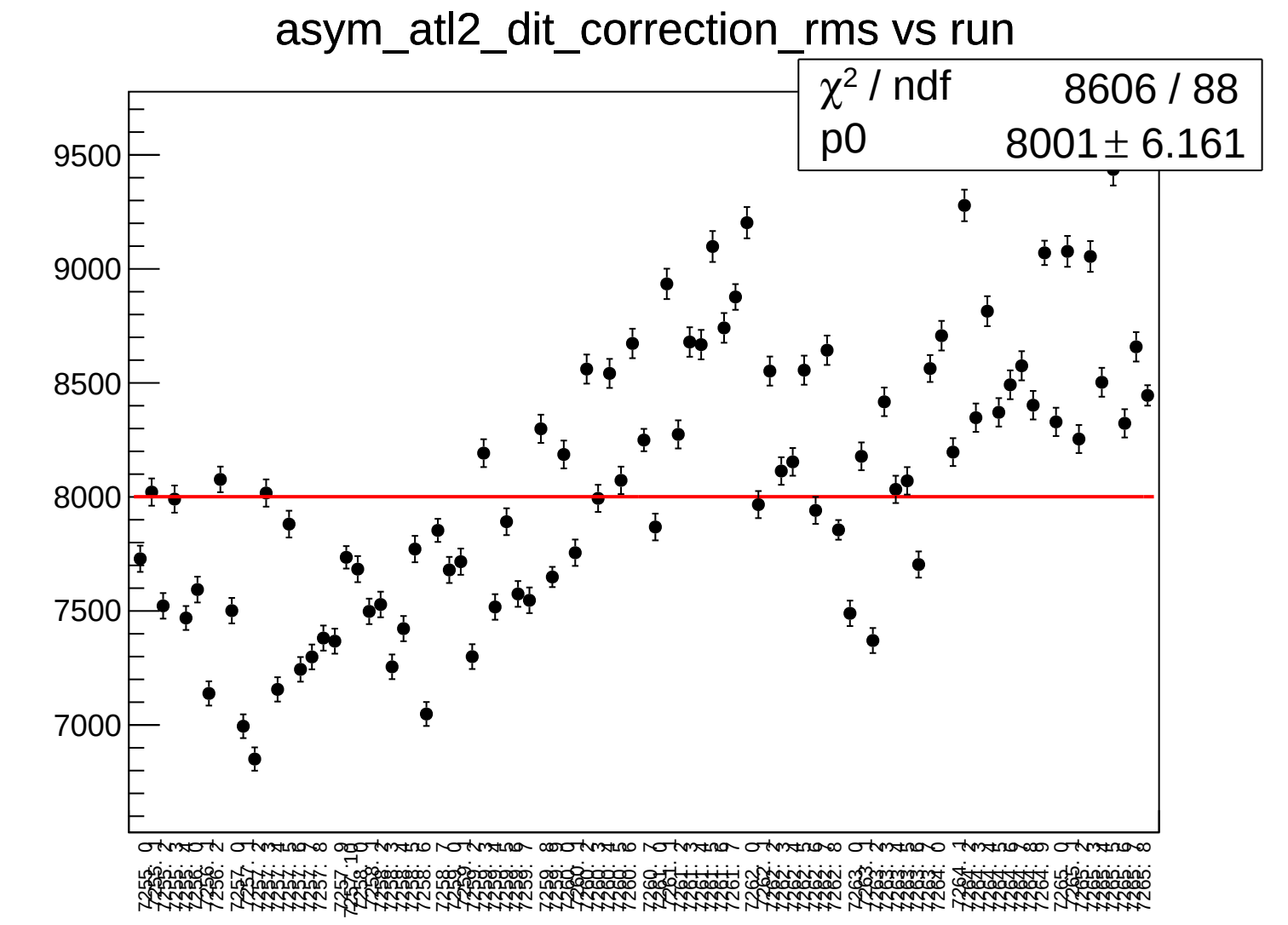

dit_asym_atl2_mean vs run
χ^2 / ndf 77.09 / 88
p0 −1813 ± 2442
pull
Entries 89
Mean −1012
Std Dev 0

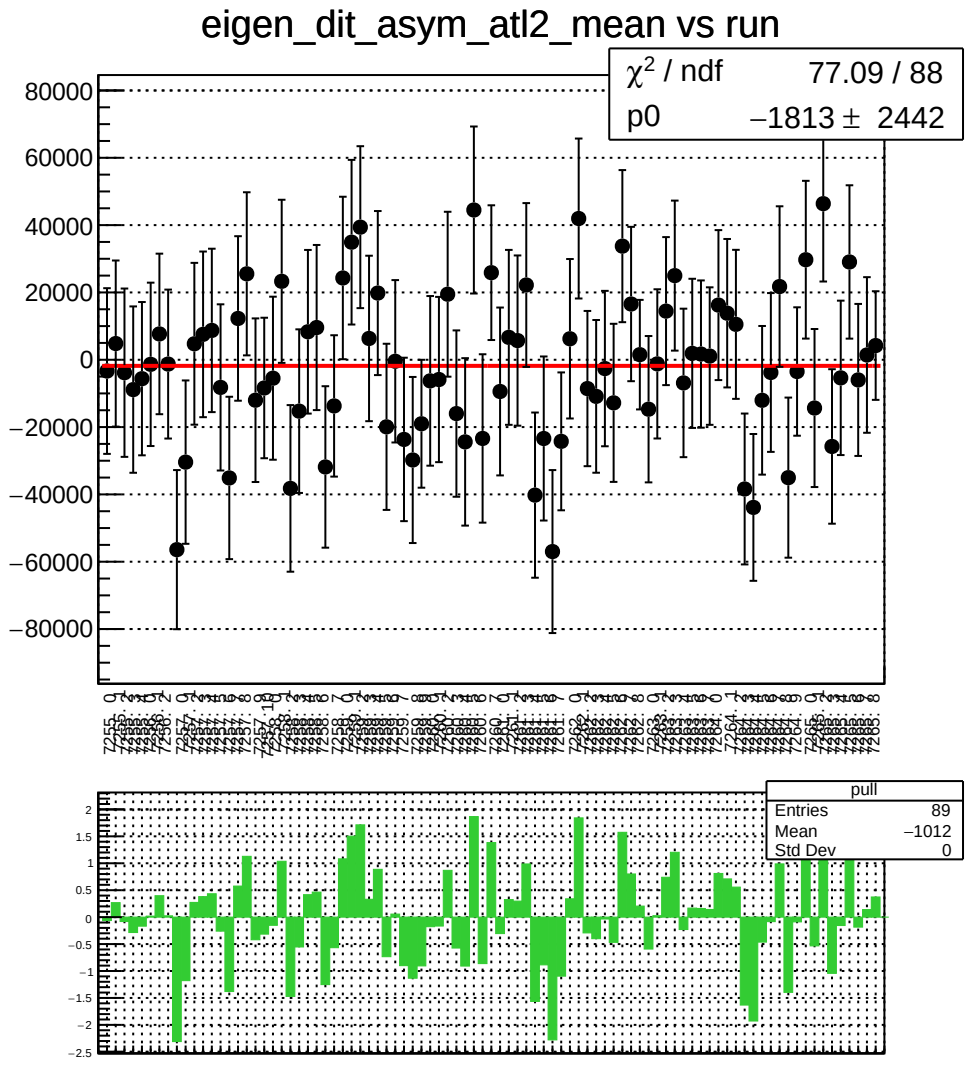

pull1D
Entries 89
Mean −0.002059
Std Dev 0.9307

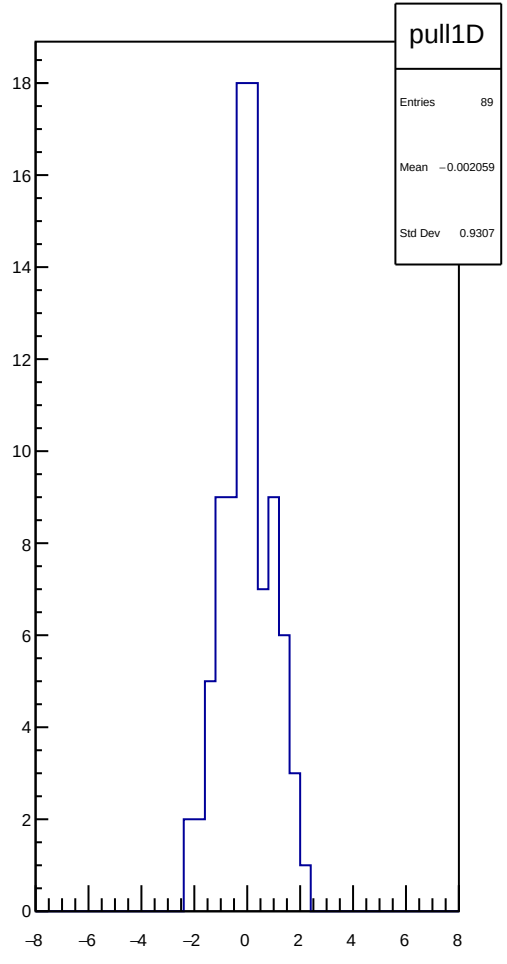

dit_asym_atl2_rms vs run
χ² / ndf 3135 / 88
p0 2246 ± 1.727
2500
2400
2300
2200
2100

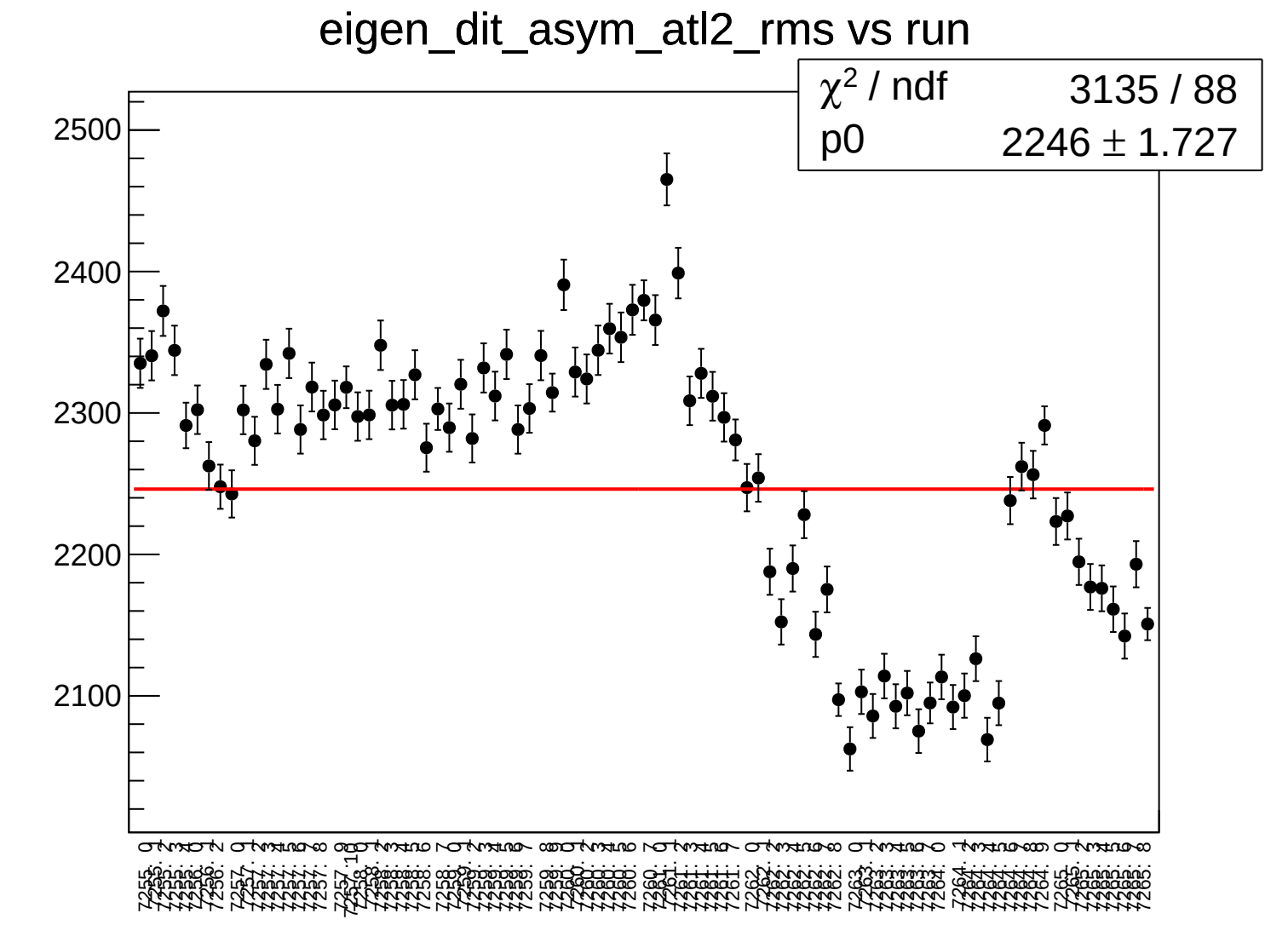

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 84.18 / 88
p0 4838 ± 8713
pull
Entries 89
Mean 1141
Std Dev 0

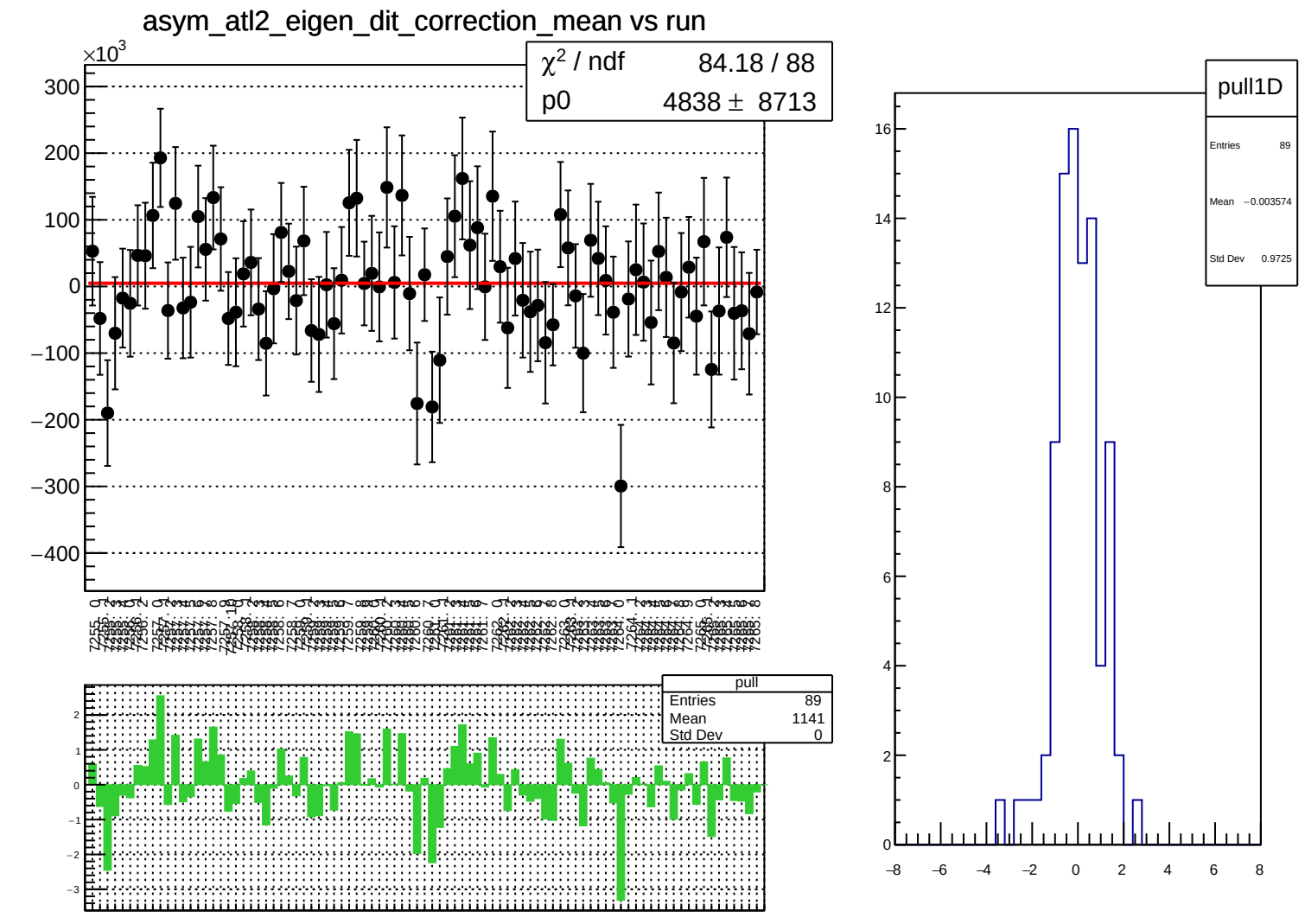

pull1D
Entries 89
Mean −0.003574
Std Dev 0.9725

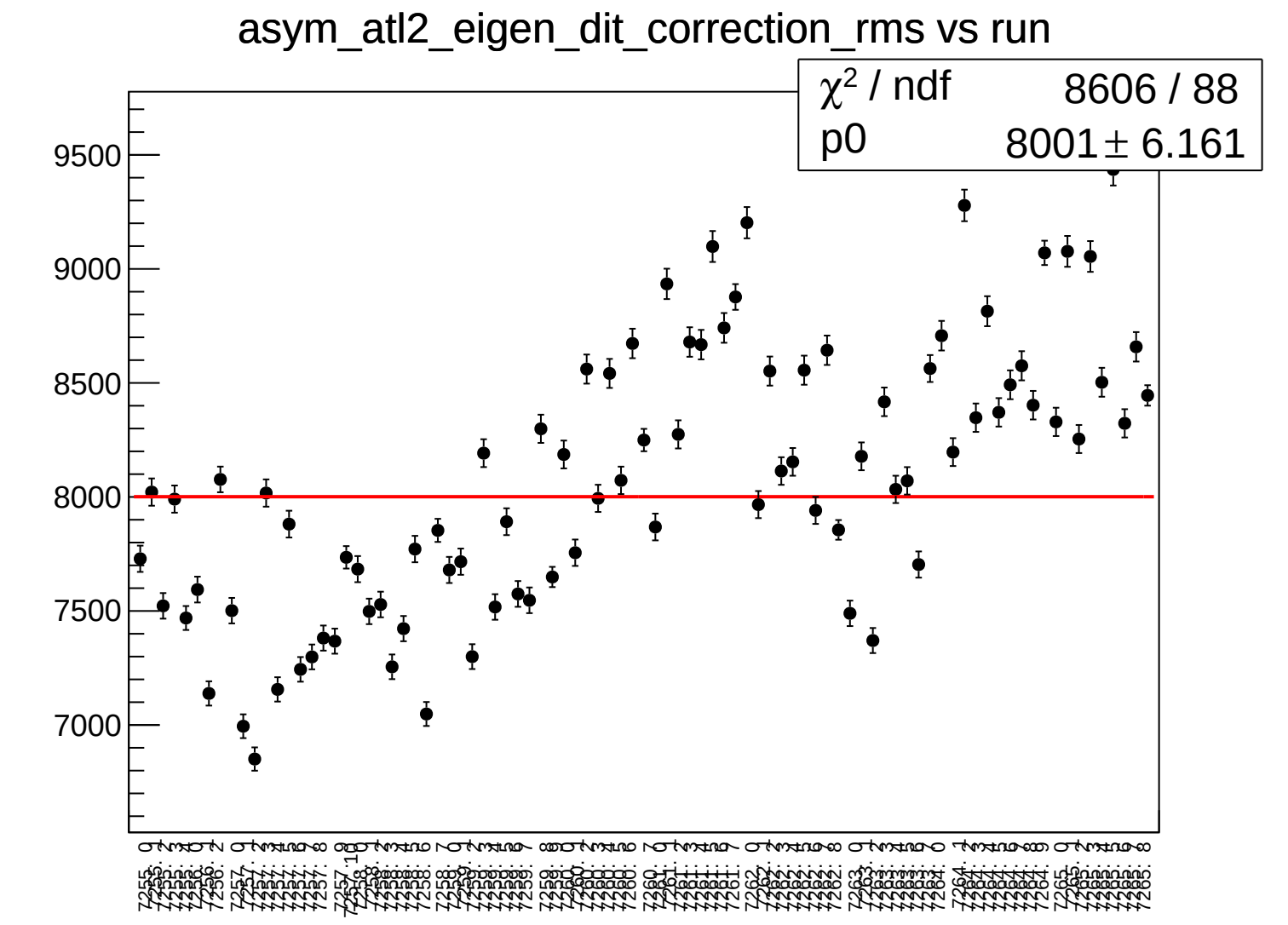

asym_atl2_dit_correction_rms vs run
χ² / ndf 8606 / 88
p0 8001 ± 6.161
9500
9000
8500
8000
7500
7000

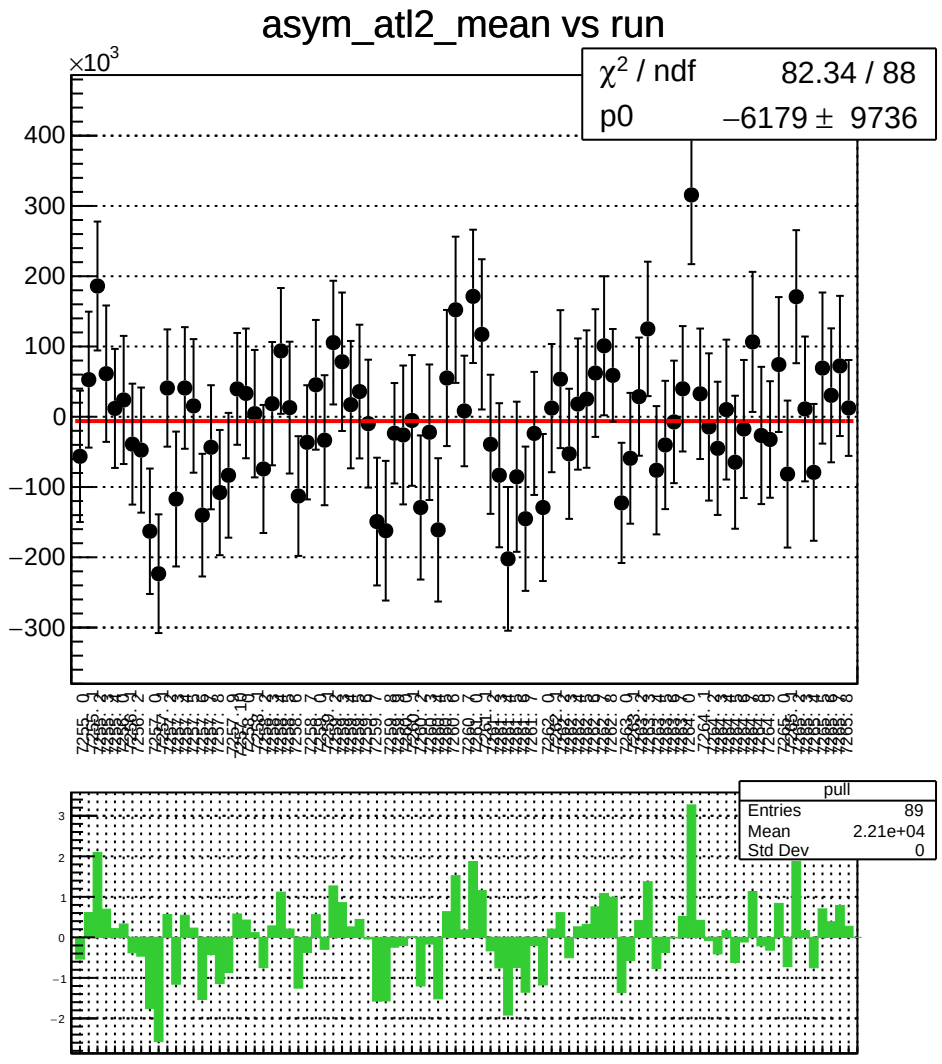

eigen_dit_asym_atl2_mean vs run
χ^2 / ndf 77.09 / 88
p0 −1813 ± 2442
pull
Entries 89
Mean −1012
Std Dev 0

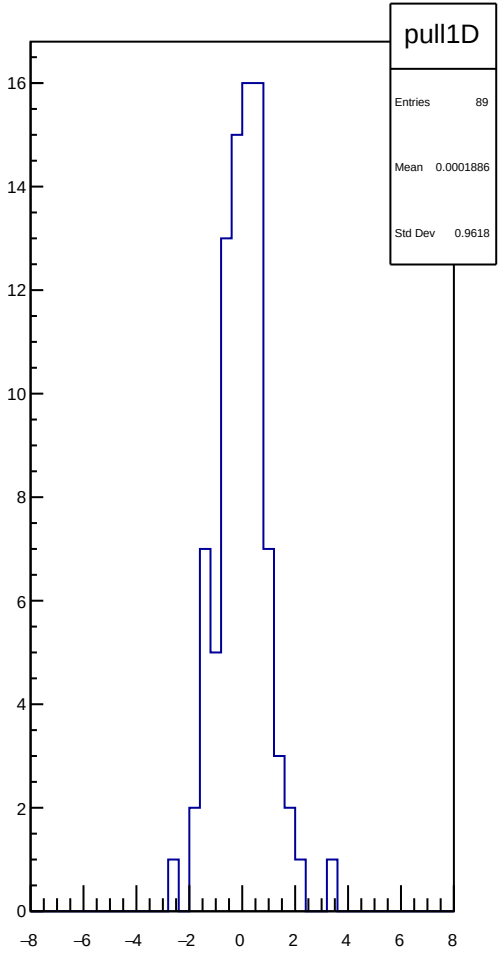

pull1D
Entries 89
Mean −0.002059
Std Dev 0.9307

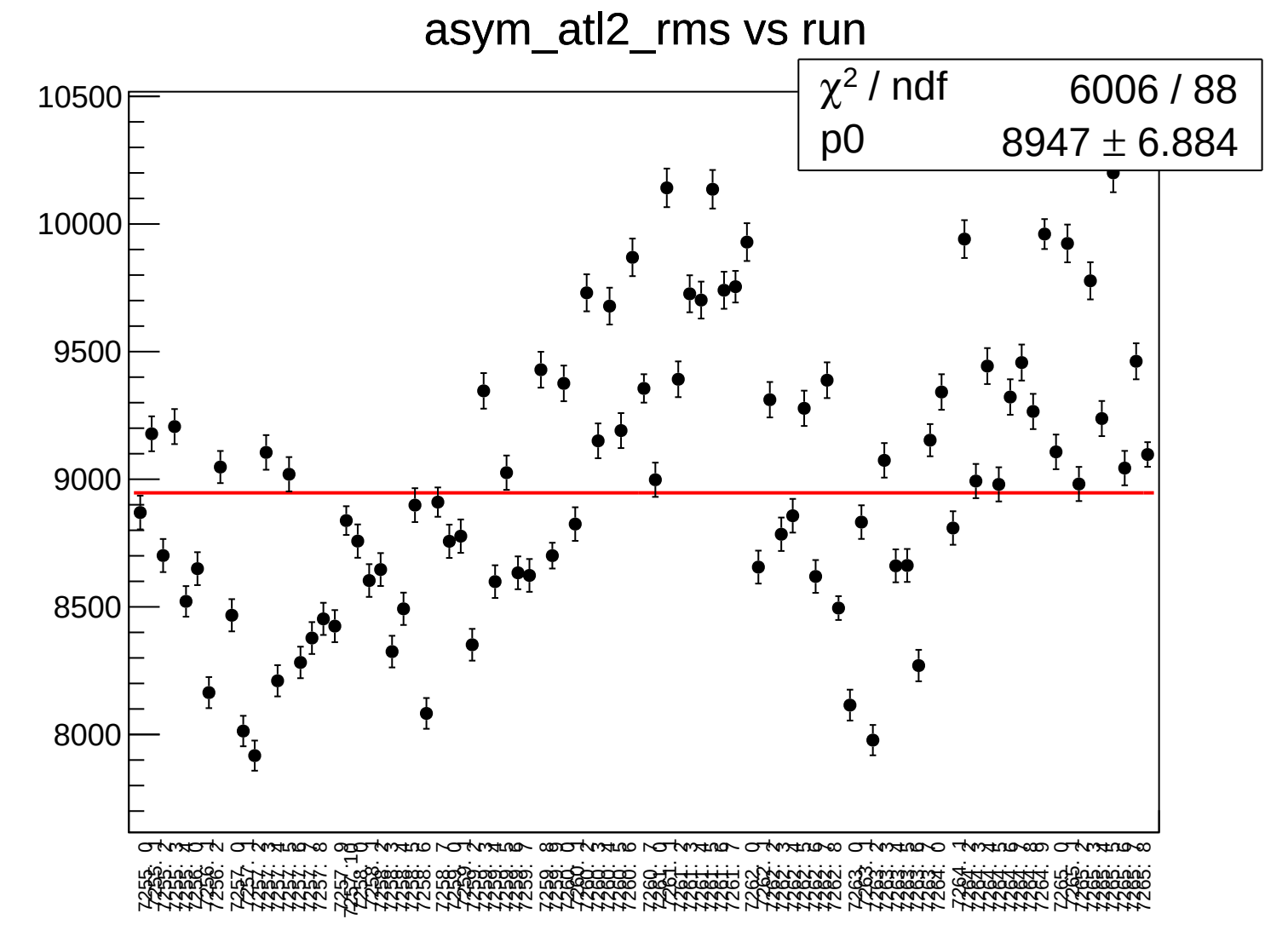

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 3135 / 88
p0 2246 ± 1.727
2500
2400
2300
2200
2100

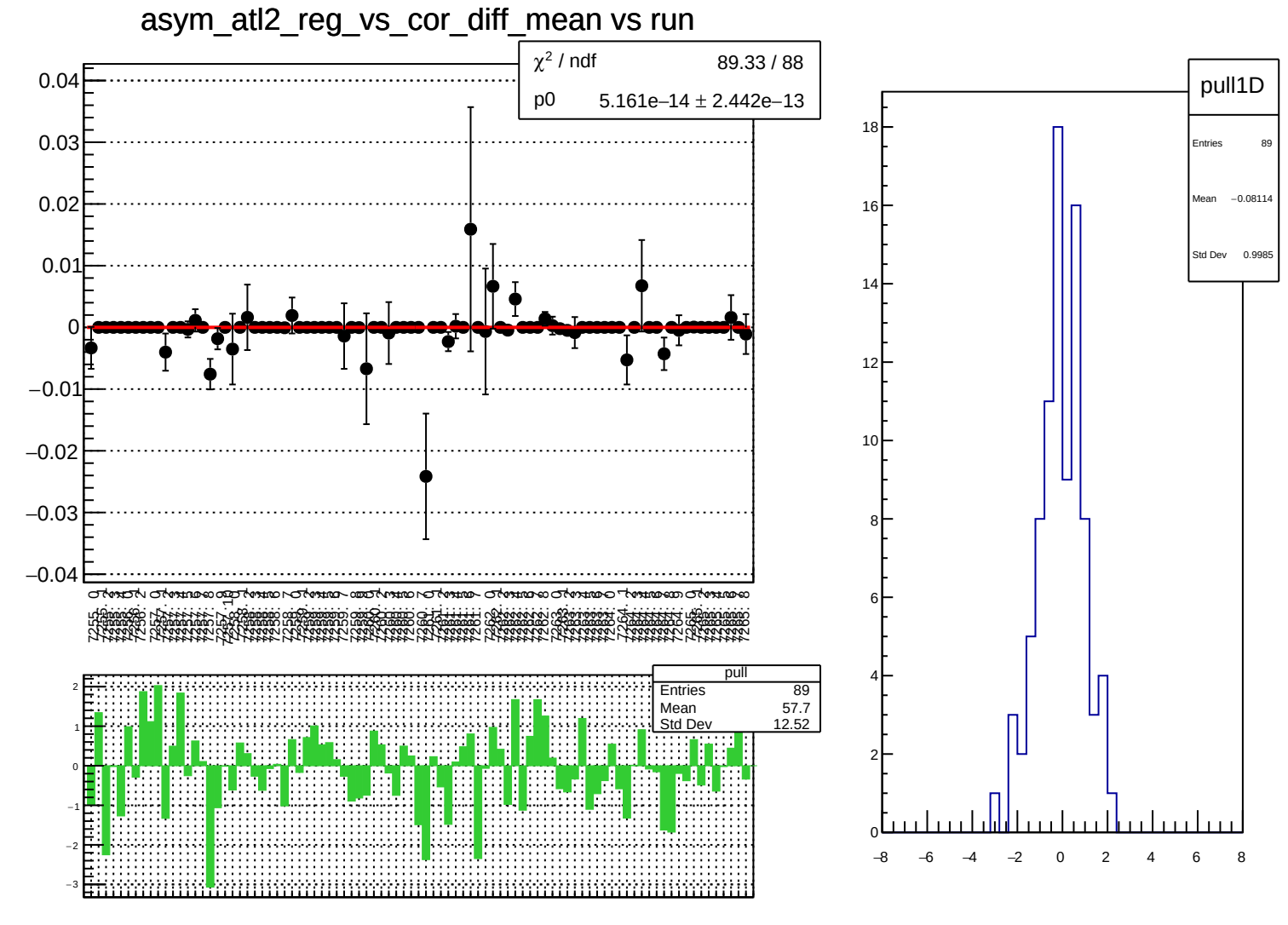

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.18 / 88
p0 4838 ± 8713
pull
Entries 89
Mean 1141
Std Dev 0
pull1D
Entries 89
Mean −0.003574
Std Dev 0.9725

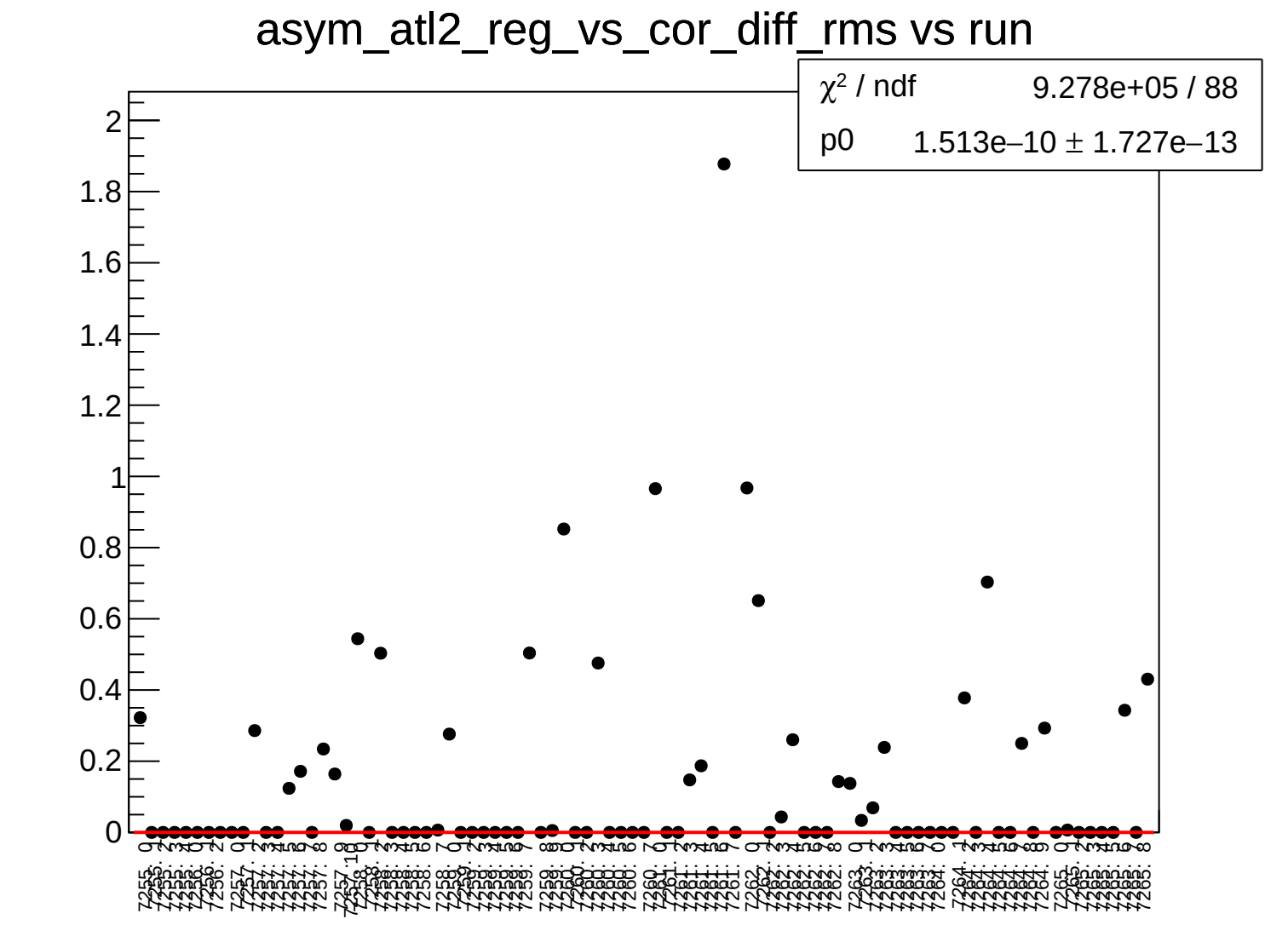

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 8606 / 88
p0 8001 ± 6.161
9500
9000
8500
8000
7500
7000

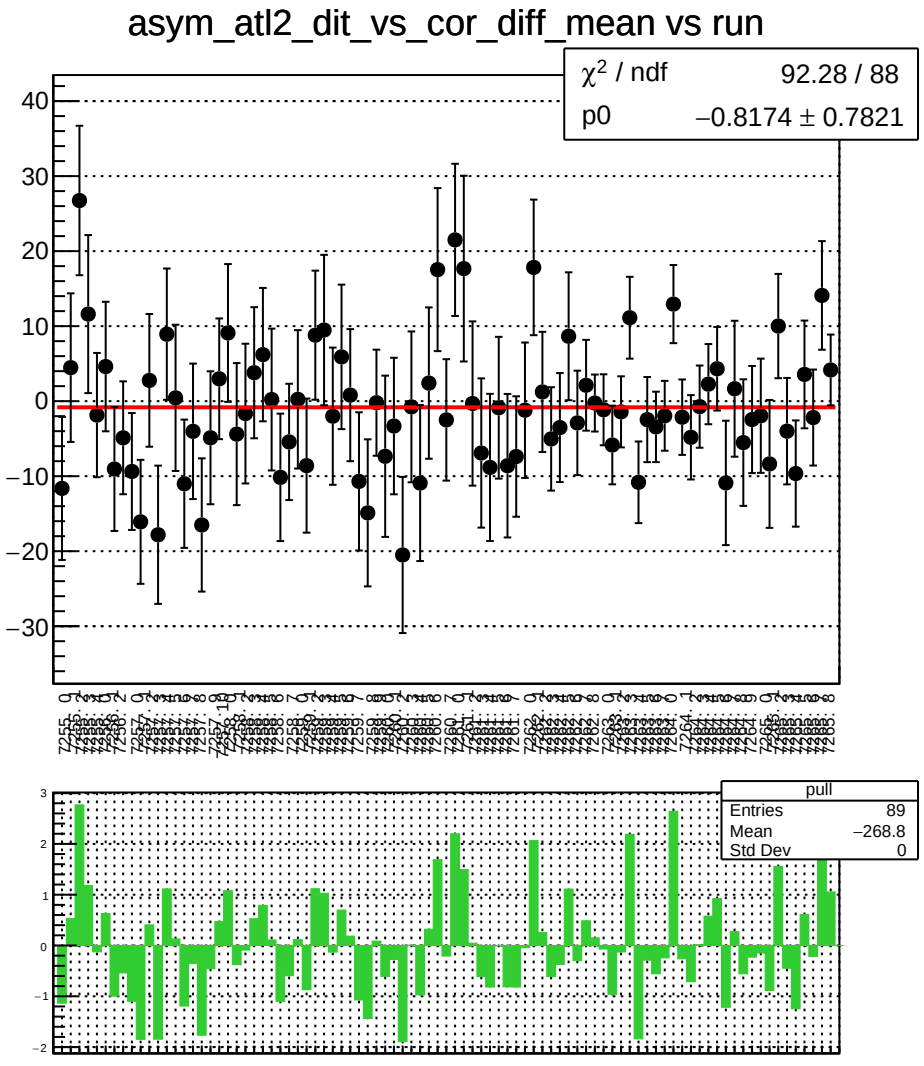

asym_atl2_mean vs run
χ² / ndf 82.34 / 88
p0 −6179 ± 9736
×10³
pull
Entries 89
Mean 2.21e+04
Std Dev 0

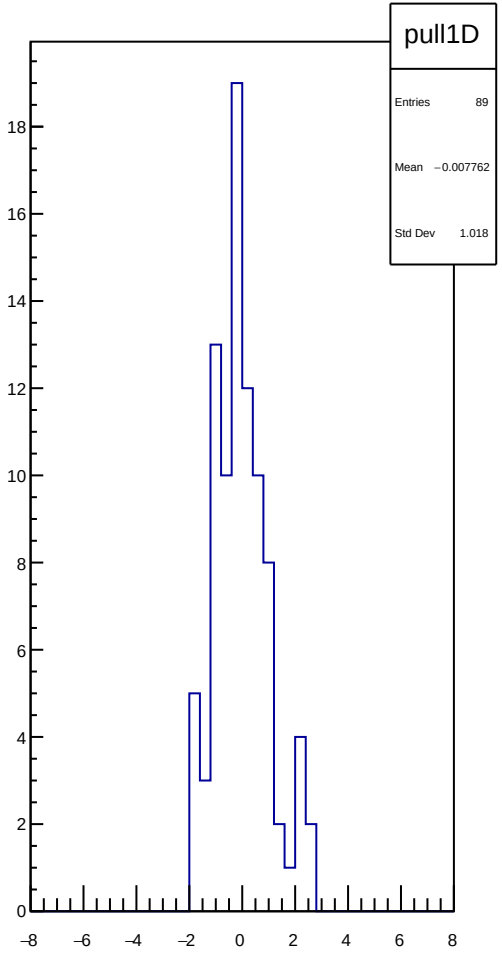

pull1D
Entries 89
Mean 0.0001886
Std Dev 0.9618

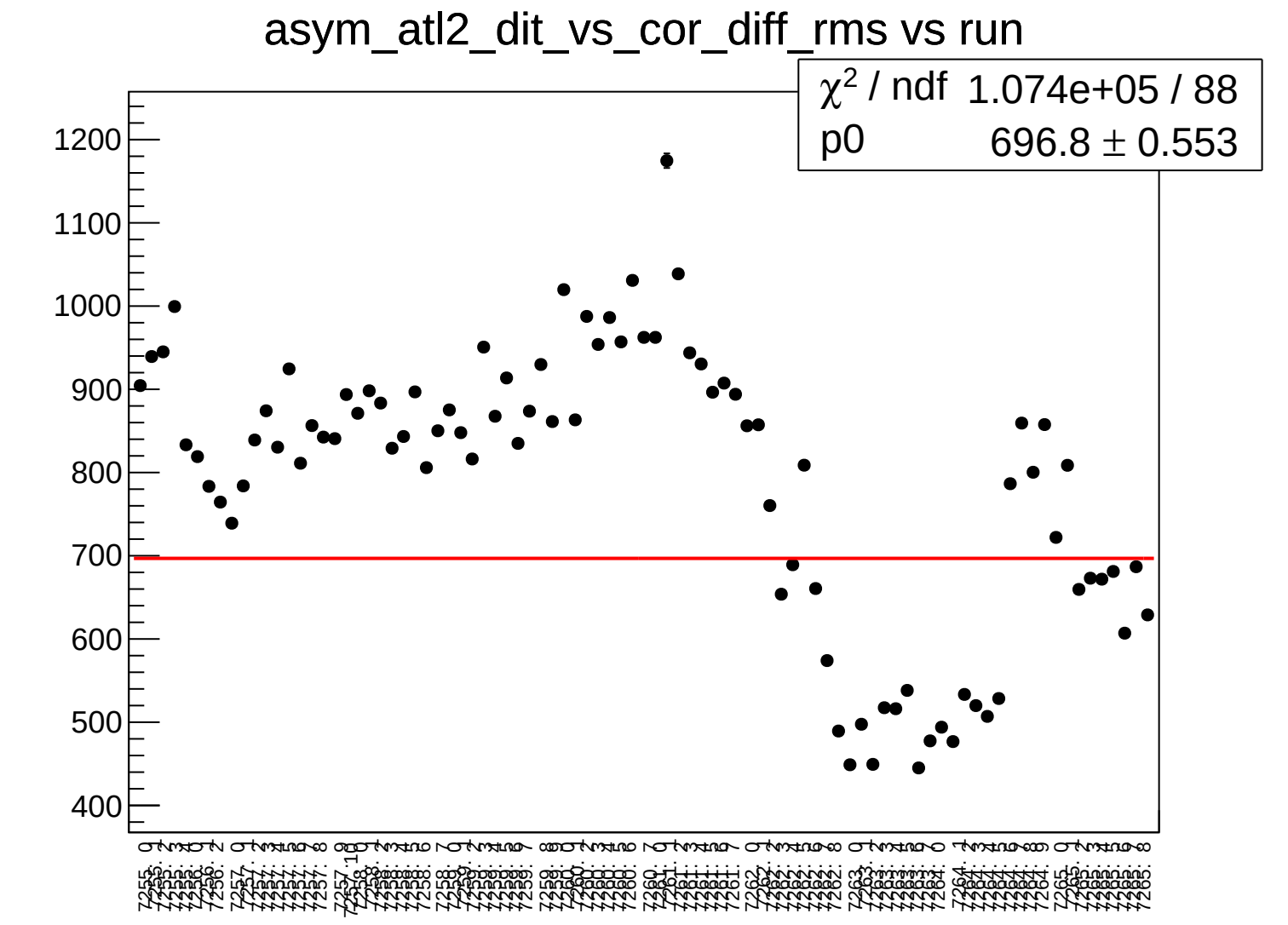

asym_atl2_rms vs run
χ² / ndf 6006 / 88
p0 8947 ± 6.884
10500
10000
9500
9000
8500
8000

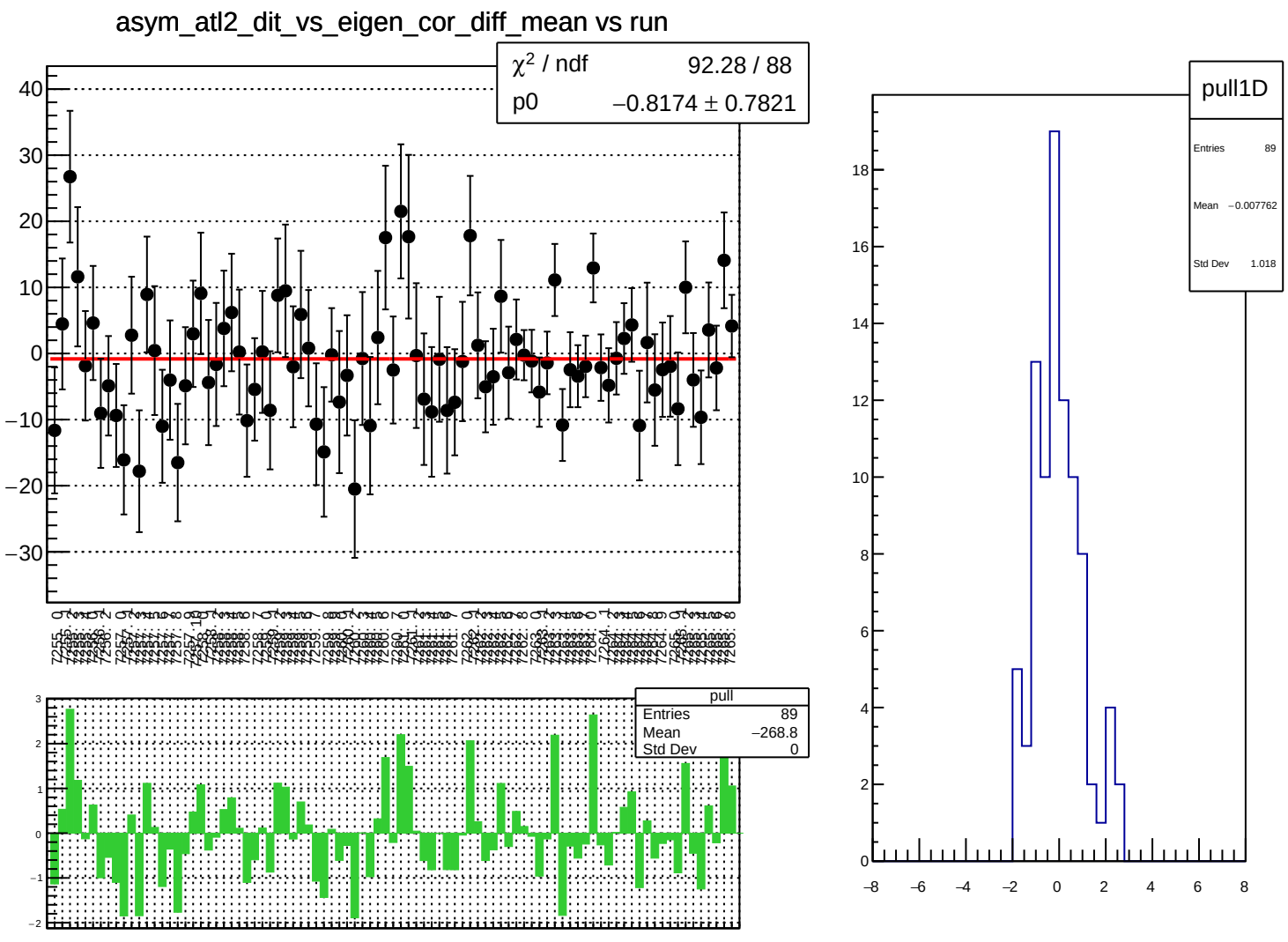

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 89.33 / 88
p0 5.161e−14 ± 2.442e−13
pull
Entries 89
Mean 57.7
Std Dev 12.52
pull1D
Entries 89
Mean −0.08114
Std Dev 0.9985

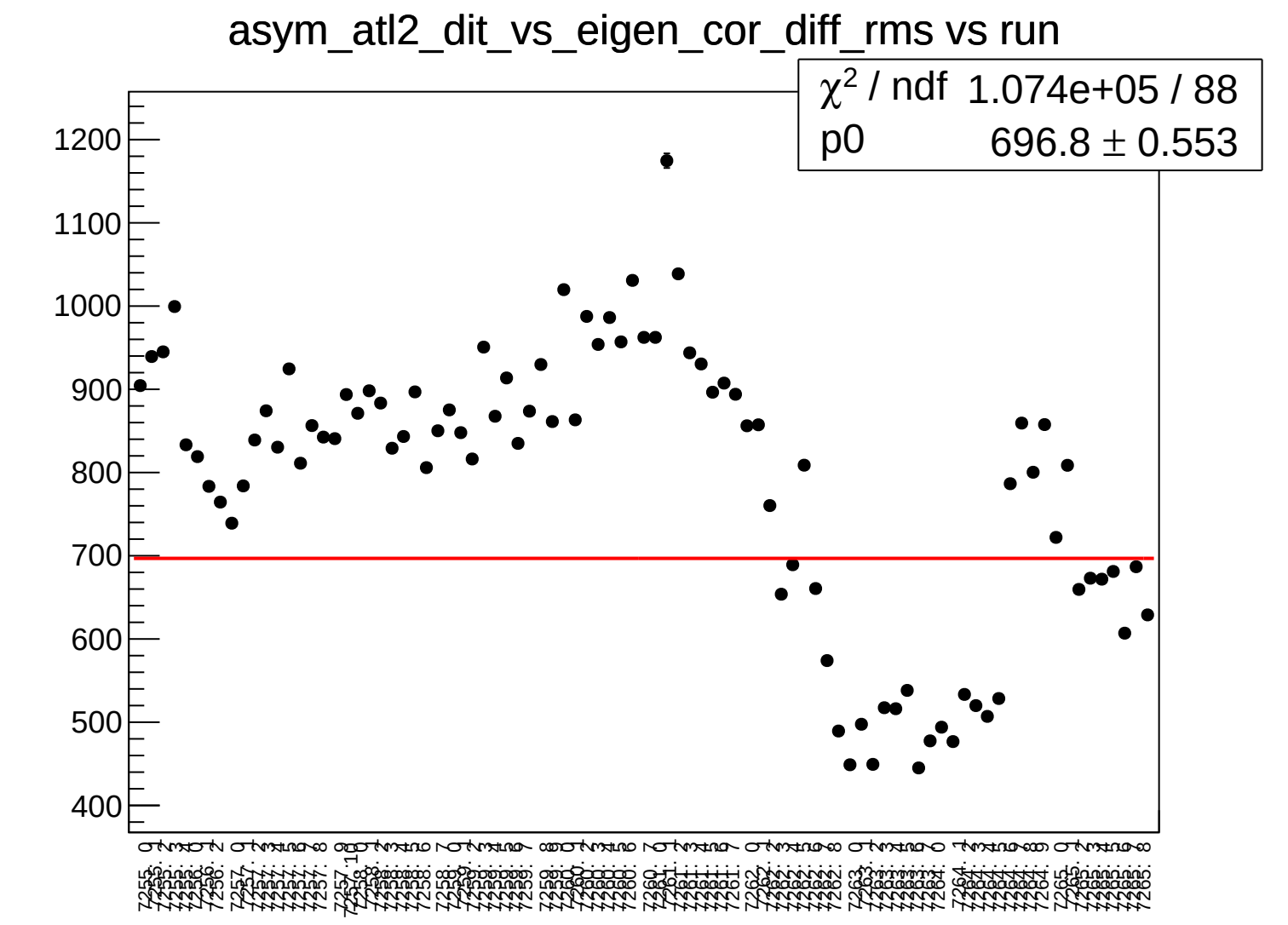

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.278e+05 / 88
p0 1.513e−10 ± 1.727e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

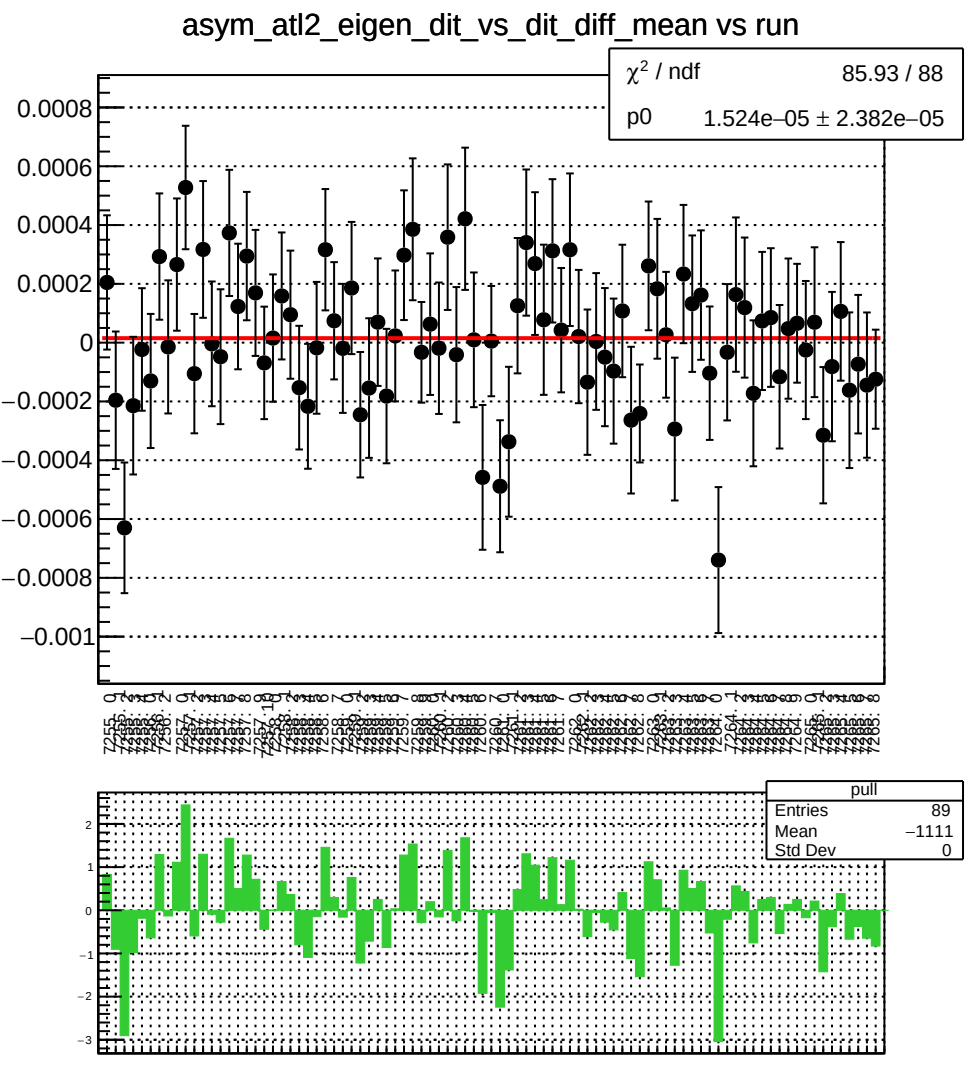

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 92.28 / 88
p0 −0.8174 ± 0.7821
pull
Entries 89
Mean −268.8
Std Dev 0

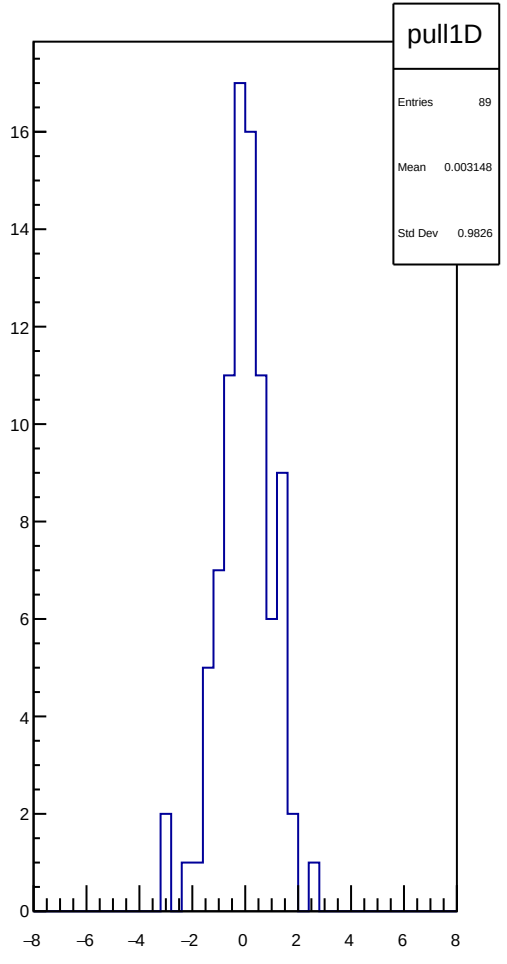

pull1D
Entries 89
Mean −0.007762
Std Dev 1.018

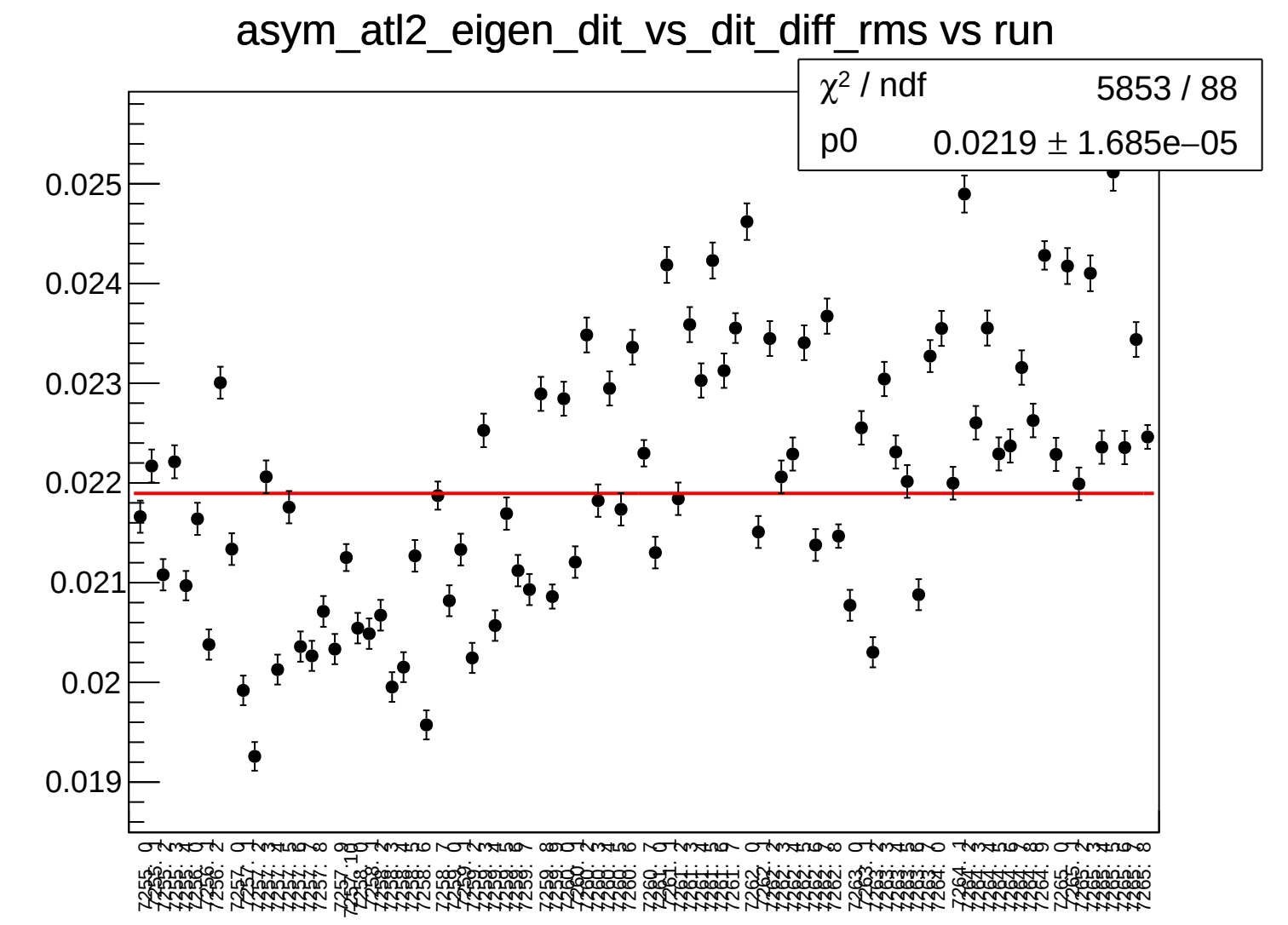

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.074e+05 / 88
p0 696.8 ± 0.553
1200
1100
1000
900
800
700
600
500
400

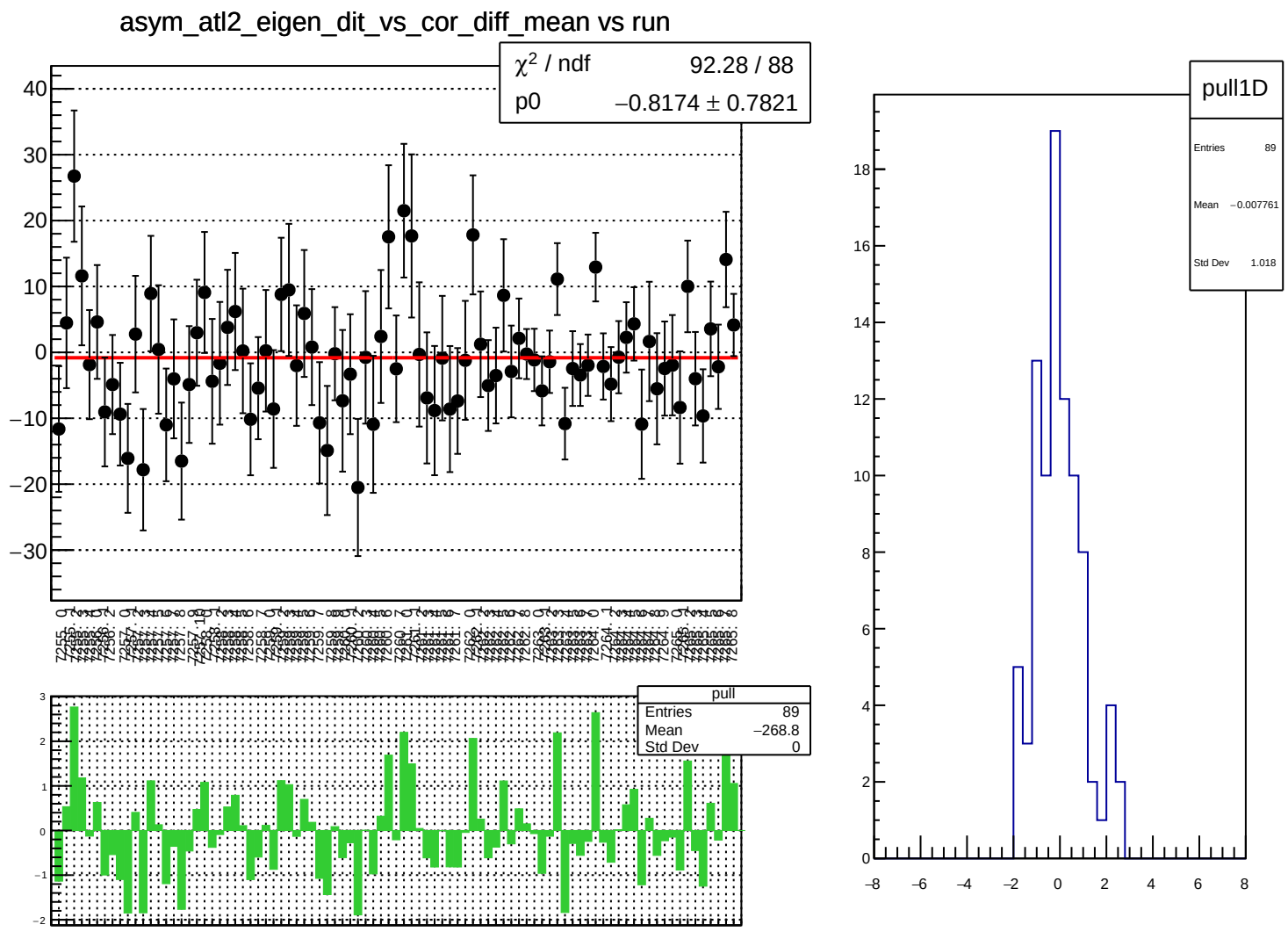

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.28 / 88
p0 −0.8174 ± 0.7821
pull
Entries 89
Mean −268.8
Std Dev 0
pull1D
Entries 89
Mean −0.007762
Std Dev 1.018

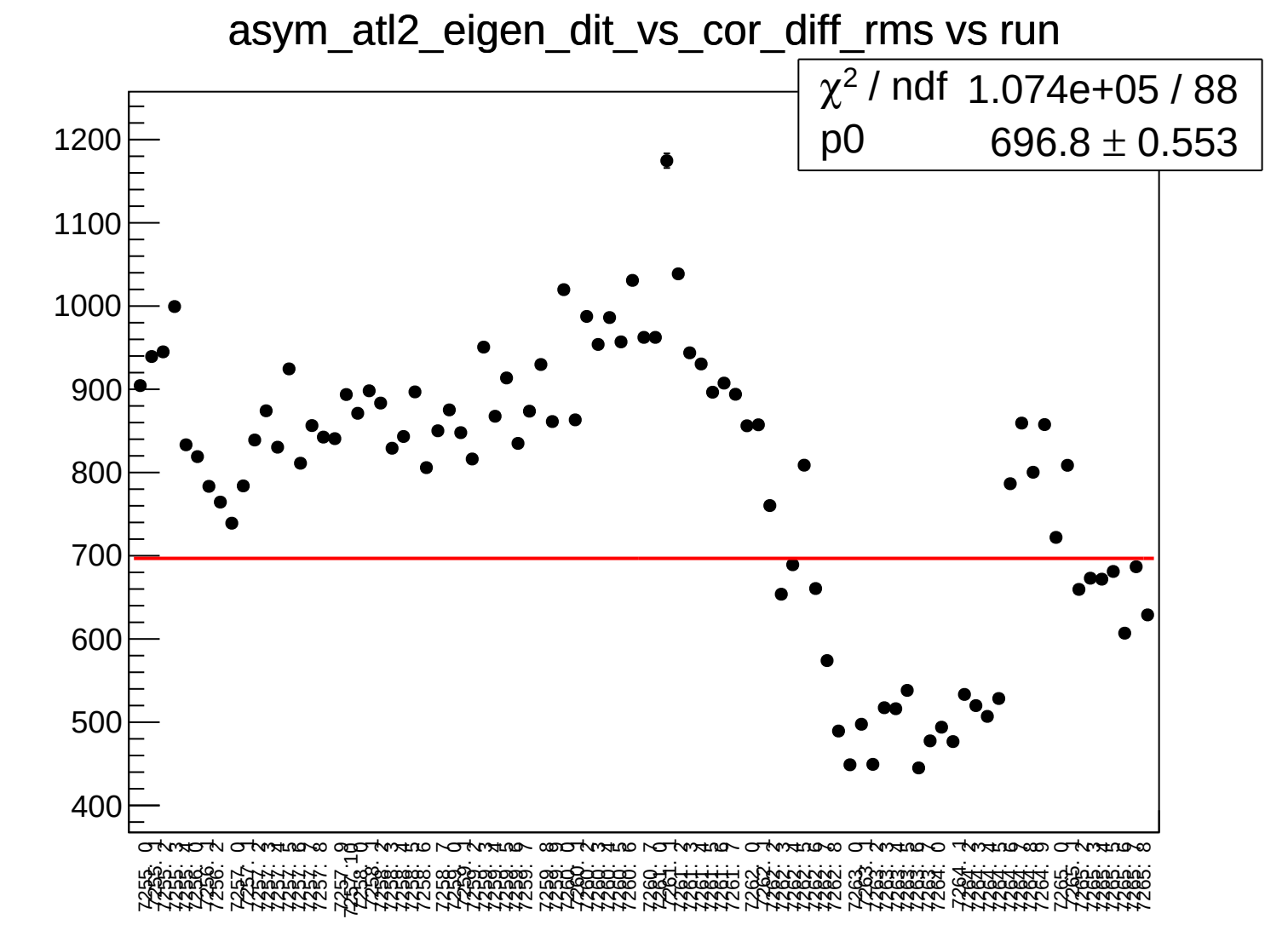

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.074e+05 / 88
p0 696.8 ± 0.553
1200
1100
1000
900
800
700
600
500
400

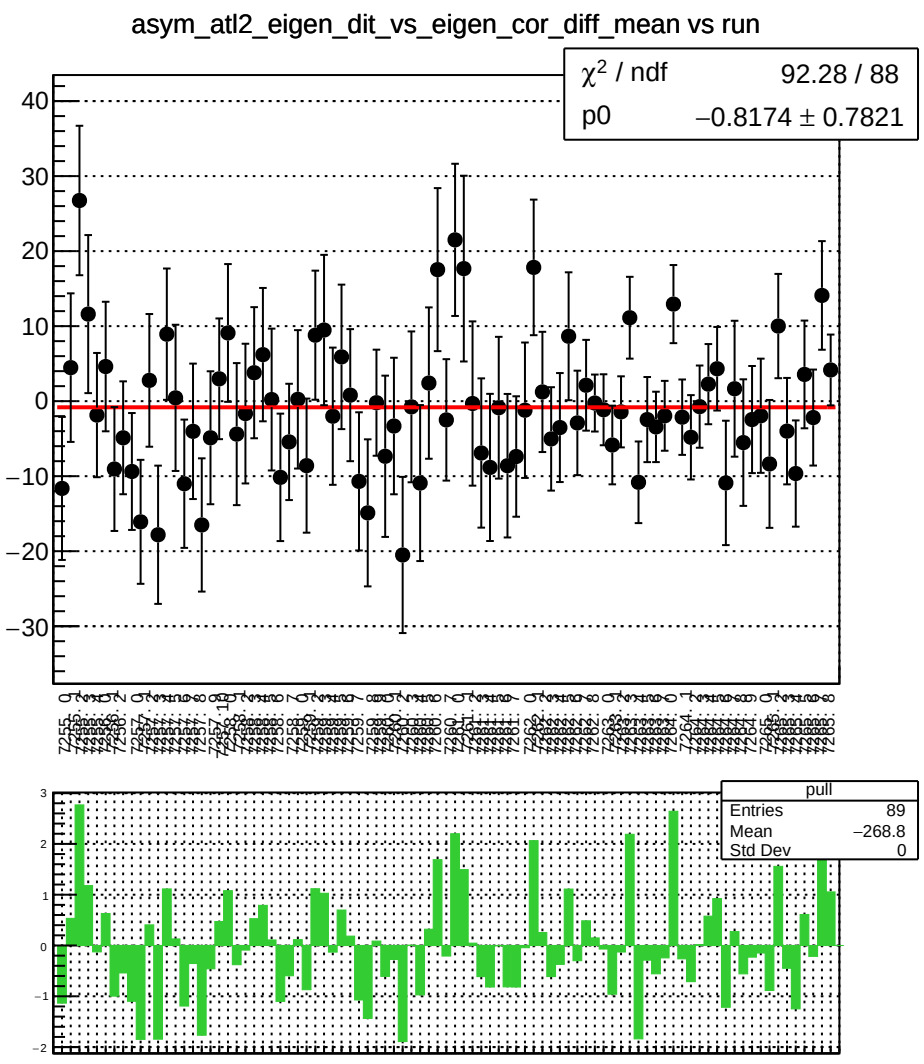

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 85.93 / 88
p0 1.524e−05 ± 2.382e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 89
Mean −1111
Std Dev 0
2
1
0
−1
−2
−3

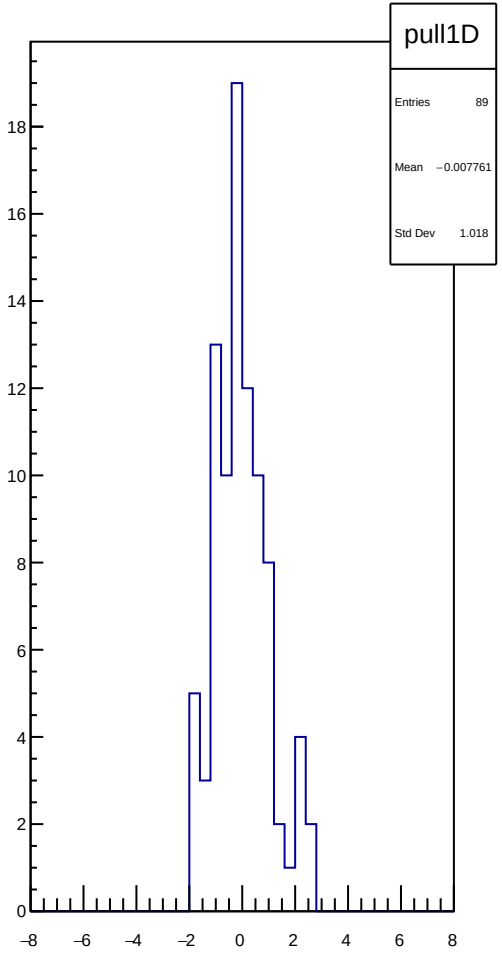

pull1D
Entries 89
Mean 0.003148
Std Dev 0.9826
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

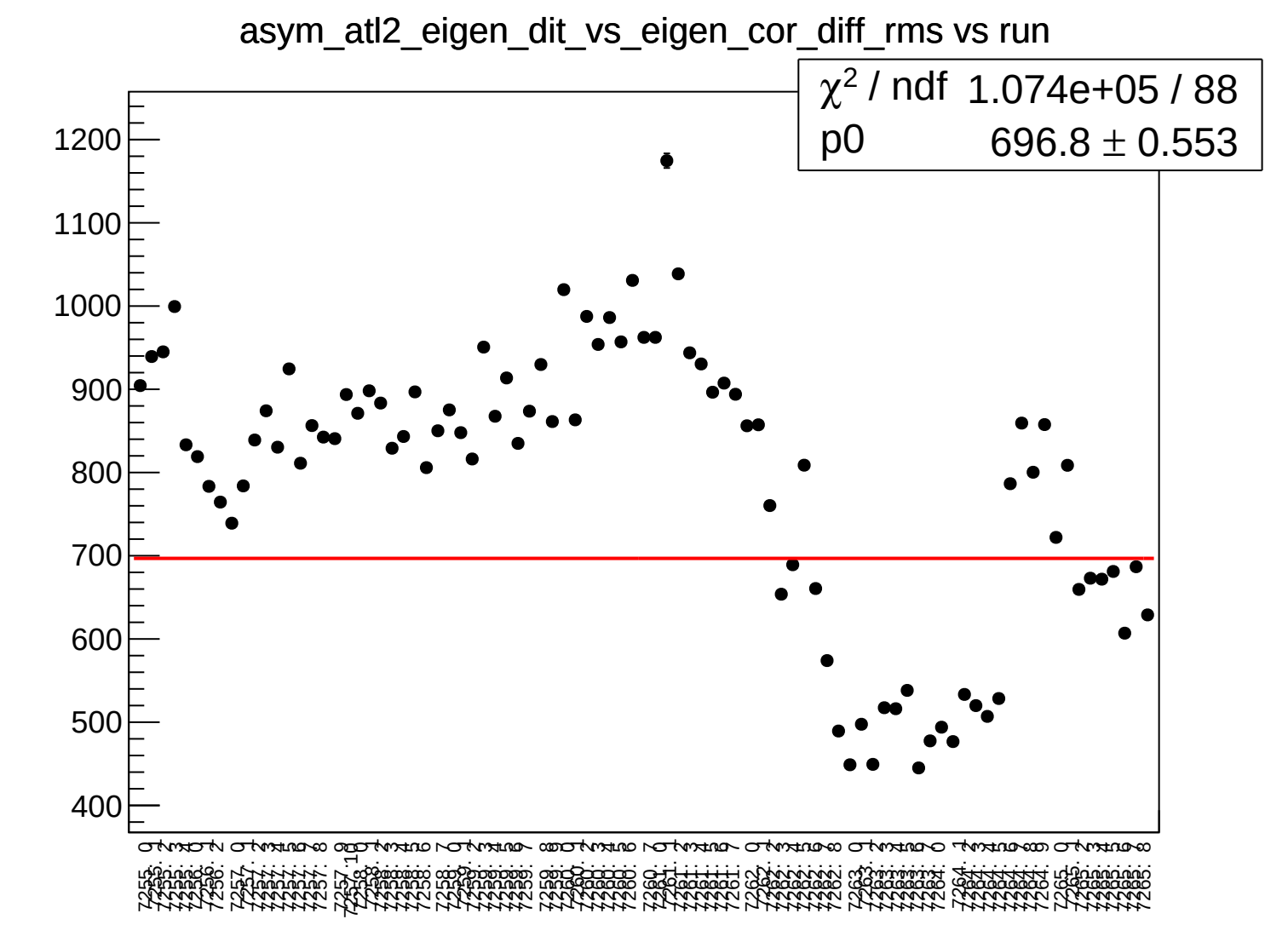

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5853 / 88
p0 0.0219 ± 1.685e−05
0.025
0.024
0.023
0.022
0.021
0.02
0.019

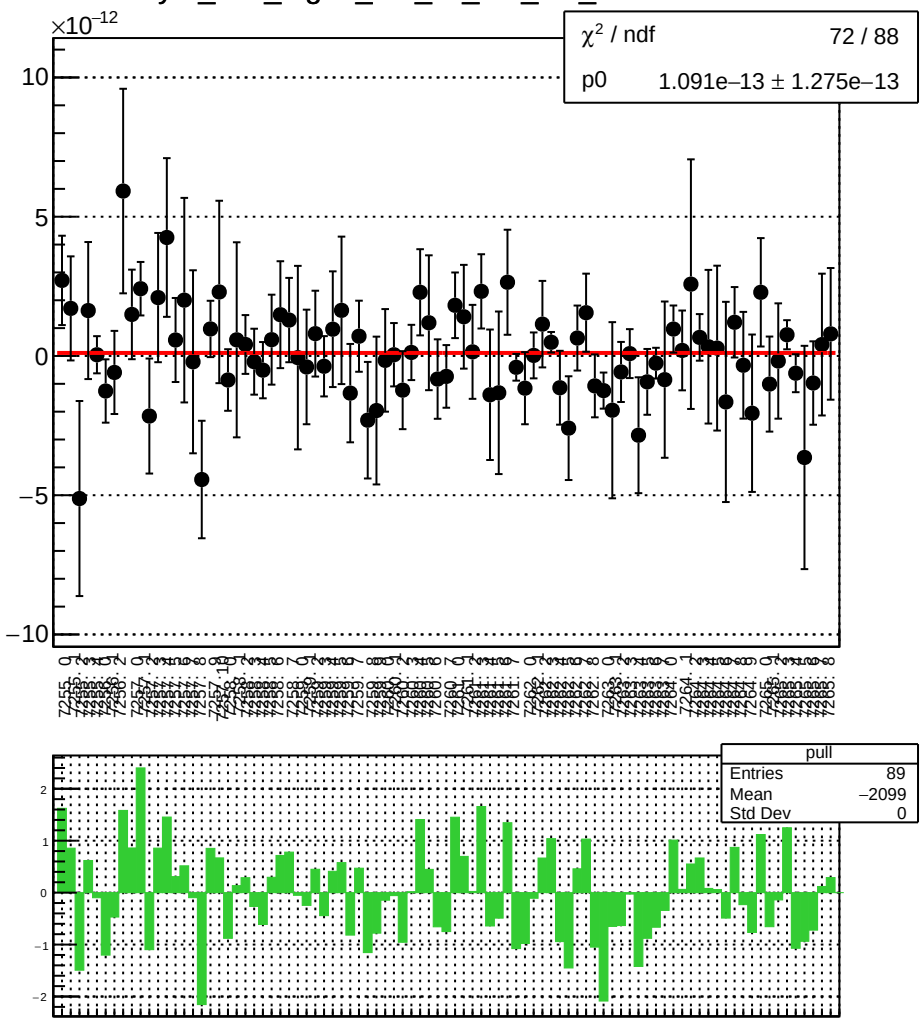

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.28 / 88
p0 −0.8174 ± 0.7821
pull
Entries 89
Mean −268.8
Std Dev 0
pull1D
Entries 89
Mean −0.007761
Std Dev 1.018

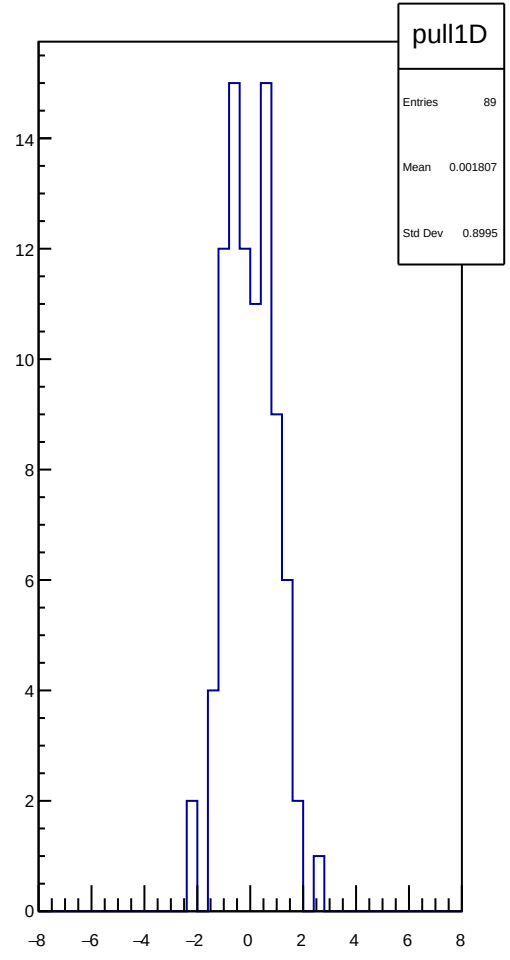

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.074e+05 / 88
p0 696.8 ± 0.553
1200
1100
1000
900
800
700
600
500
400

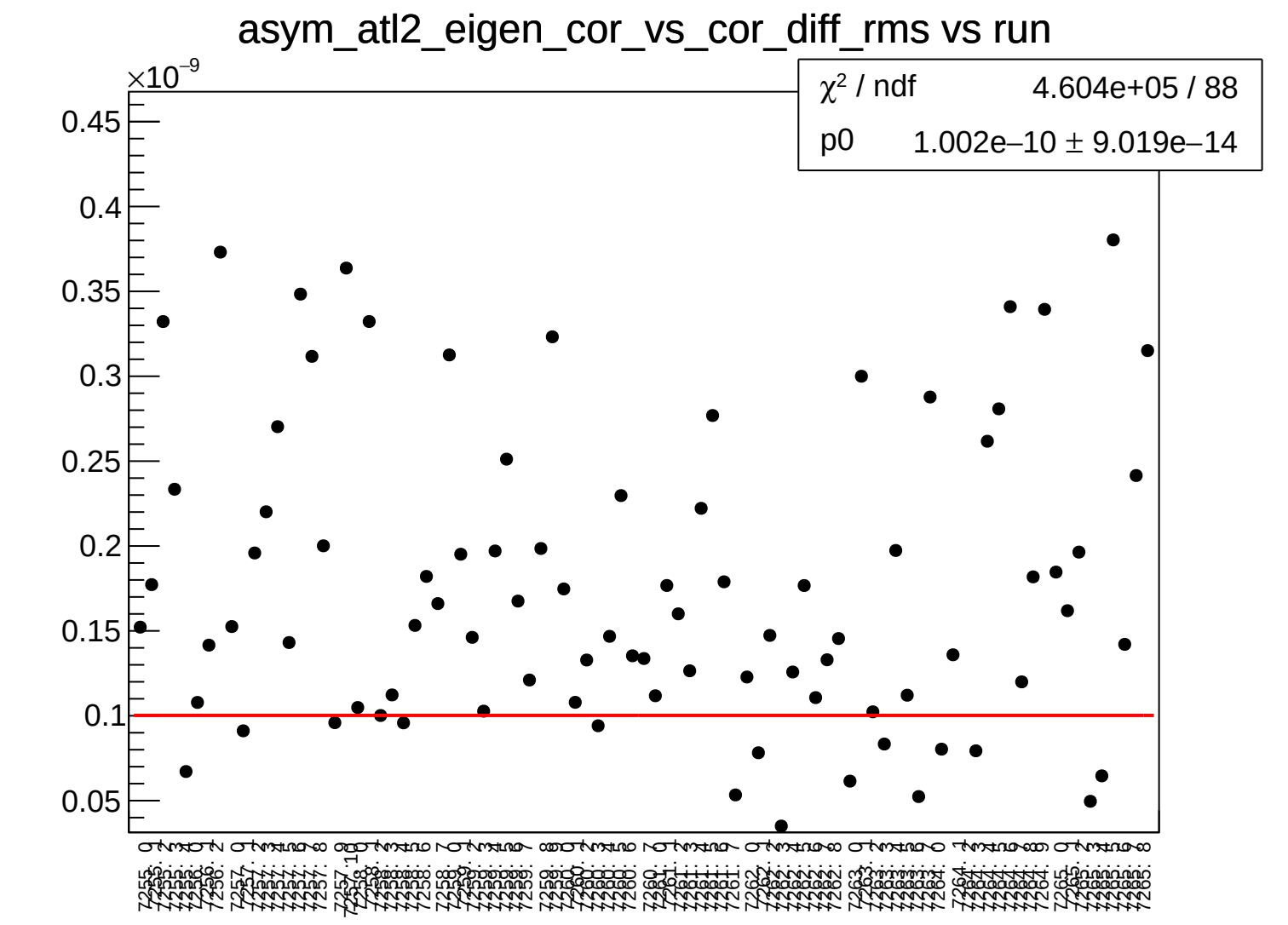

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.28 / 88
p0 −0.8174 ± 0.7821
pull
Entries 89
Mean −268.8
Std Dev 0

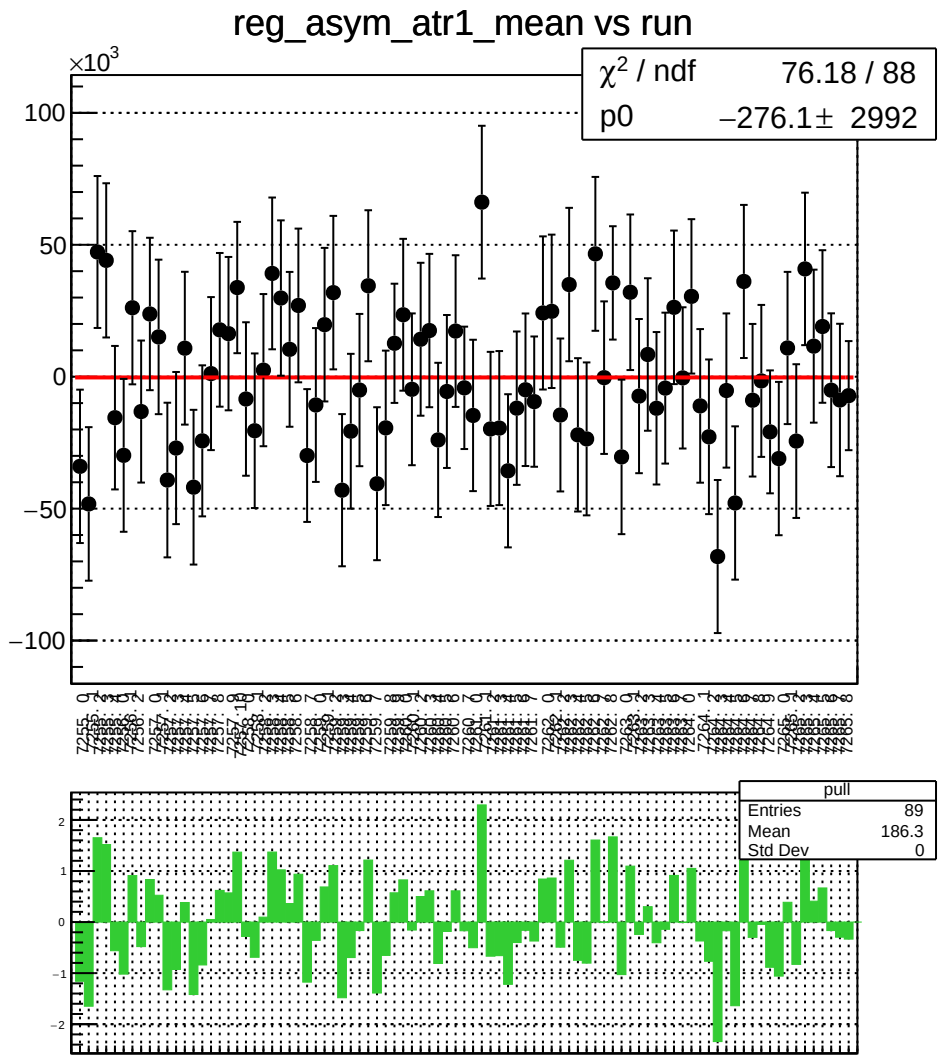

pull1D
Entries 89
Mean −0.007761
Std Dev 1.018

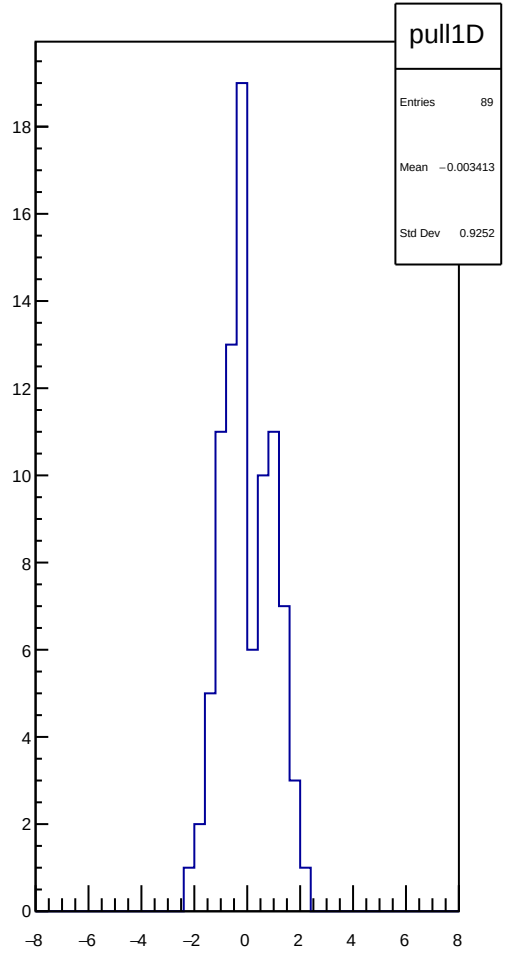

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.074e+05 / 88
p0 696.8 ± 0.553
1200
1100
1000
900
800
700
600
500
400

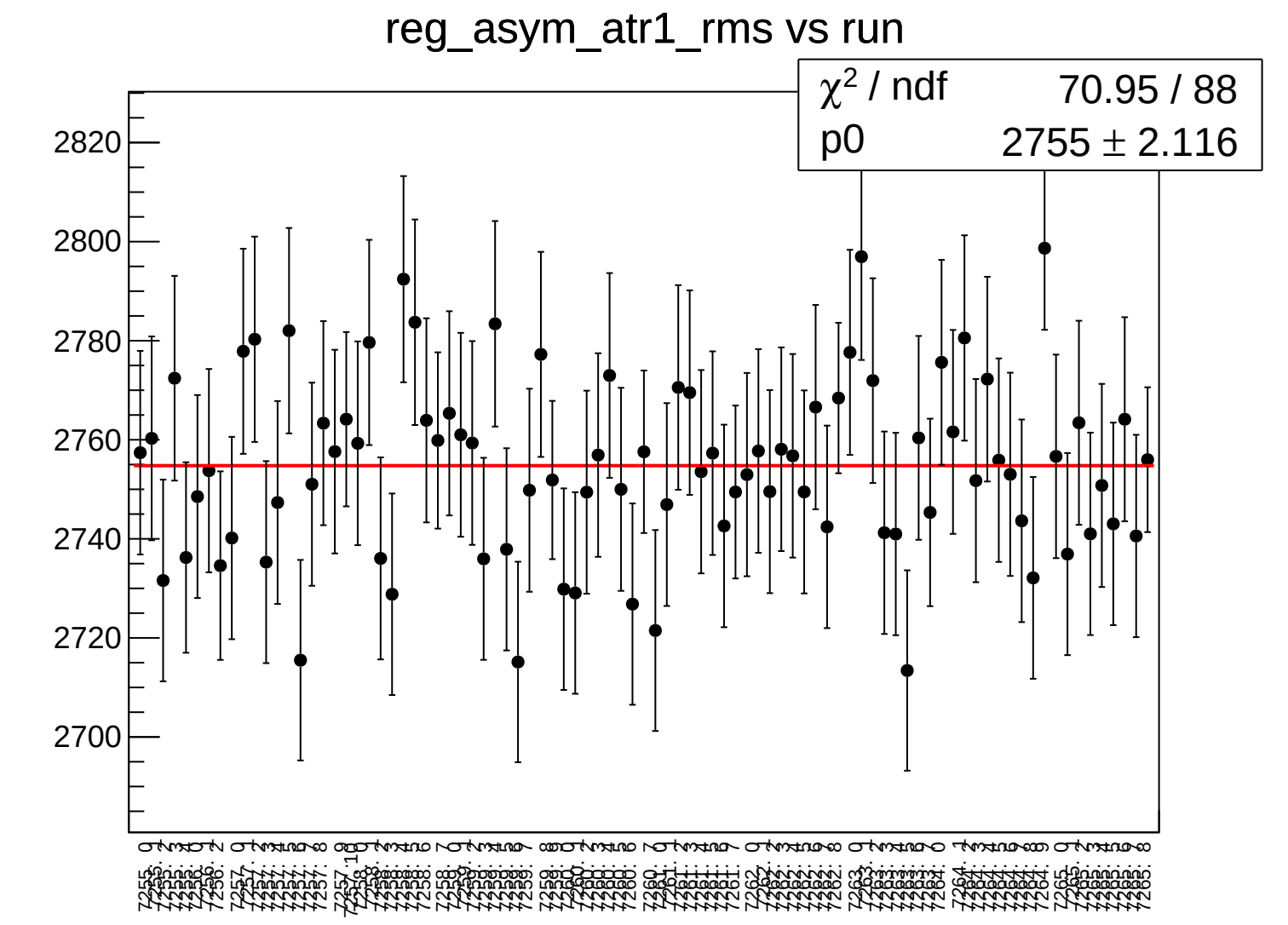

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72 / 88
p0 1.091e−13 ± 1.275e−13
pull
Entries 89
Mean −2099
Std Dev 0

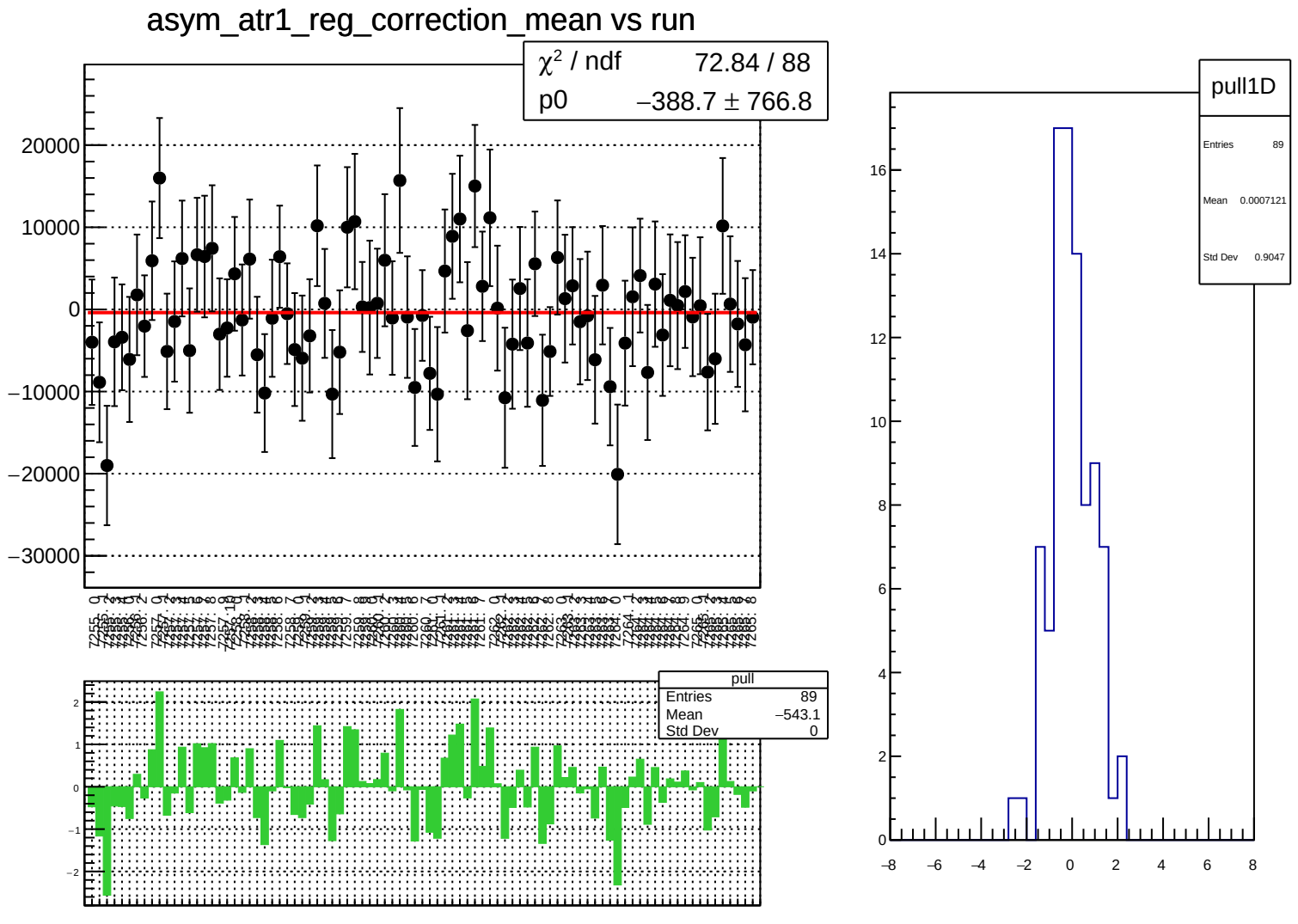

pull1D
Entries 89
Mean 0.001807
Std Dev 0.8995

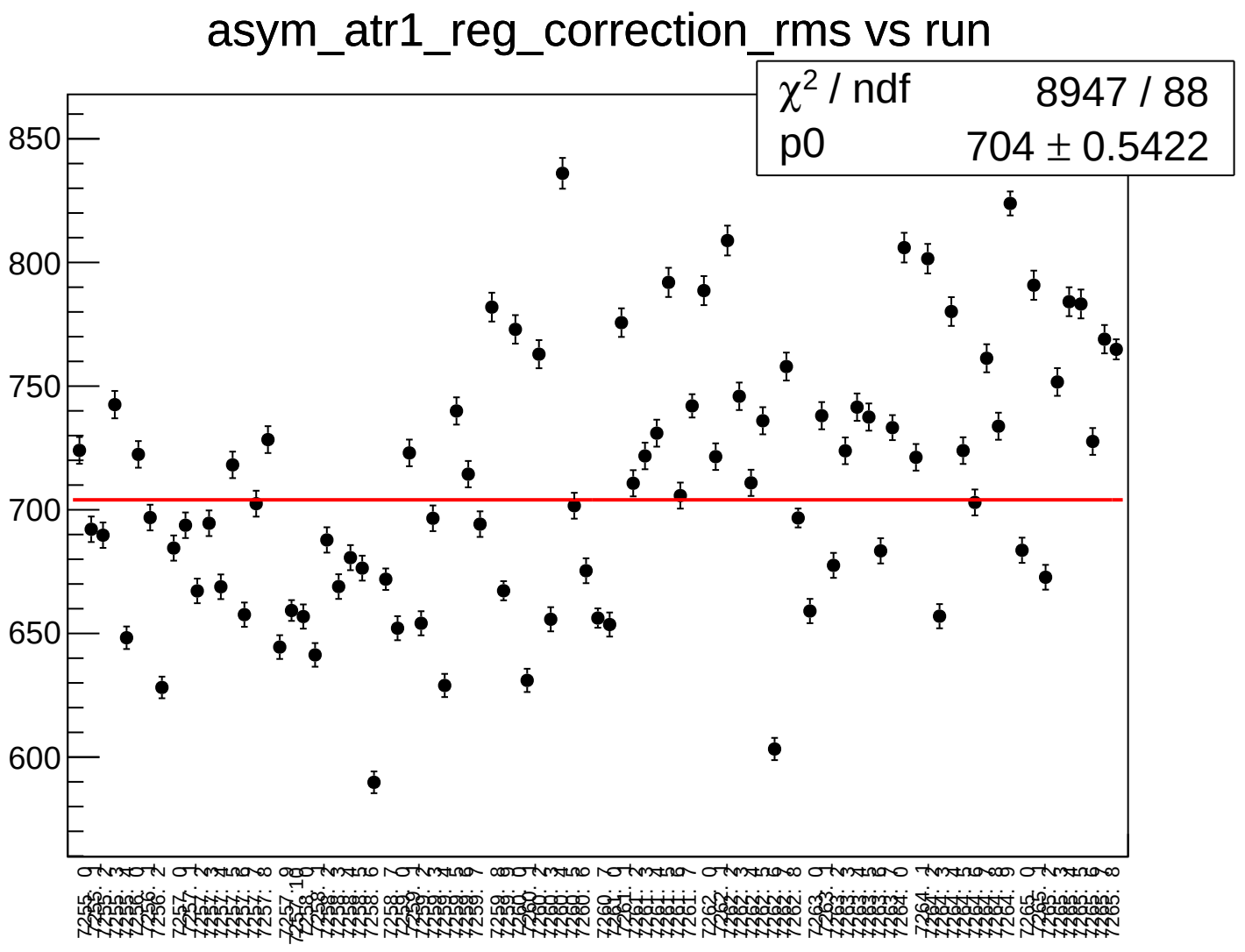

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.604e+05 / 88
p0 1.002e−10 ± 9.019e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

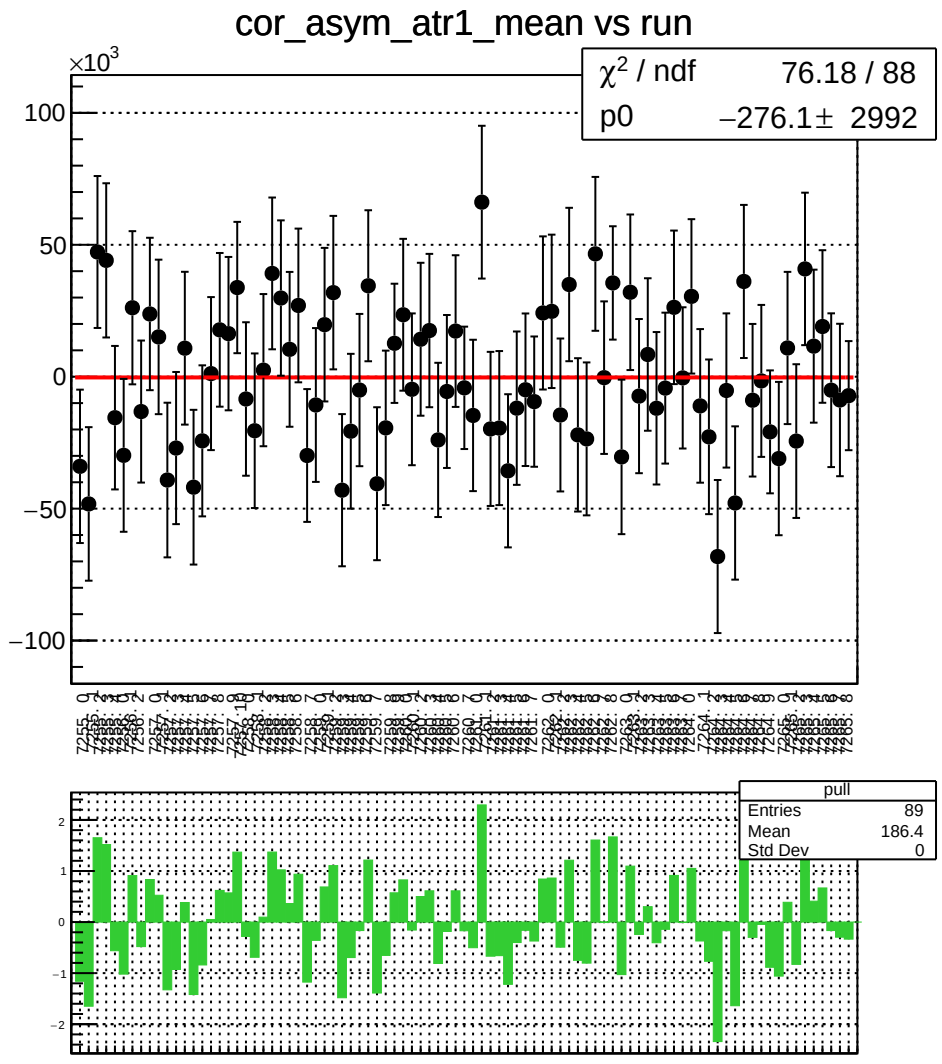

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 76.18 / 88
p0 −276.1± 2992
100
50
0
−50
−100
pull
Entries 89
Mean 186.3
Std Dev 0
2
1
0
−1
−2

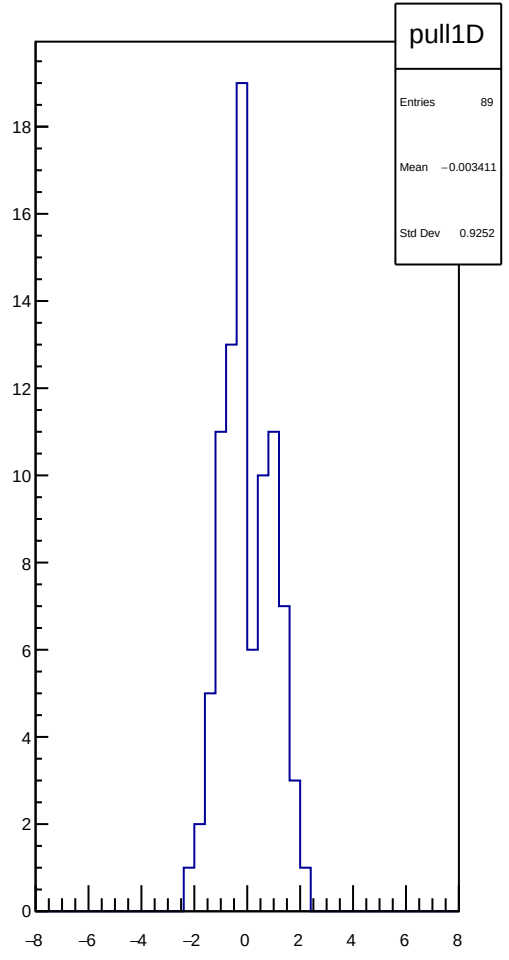

pull1D
Entries 89
Mean −0.003413
Std Dev 0.9252
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

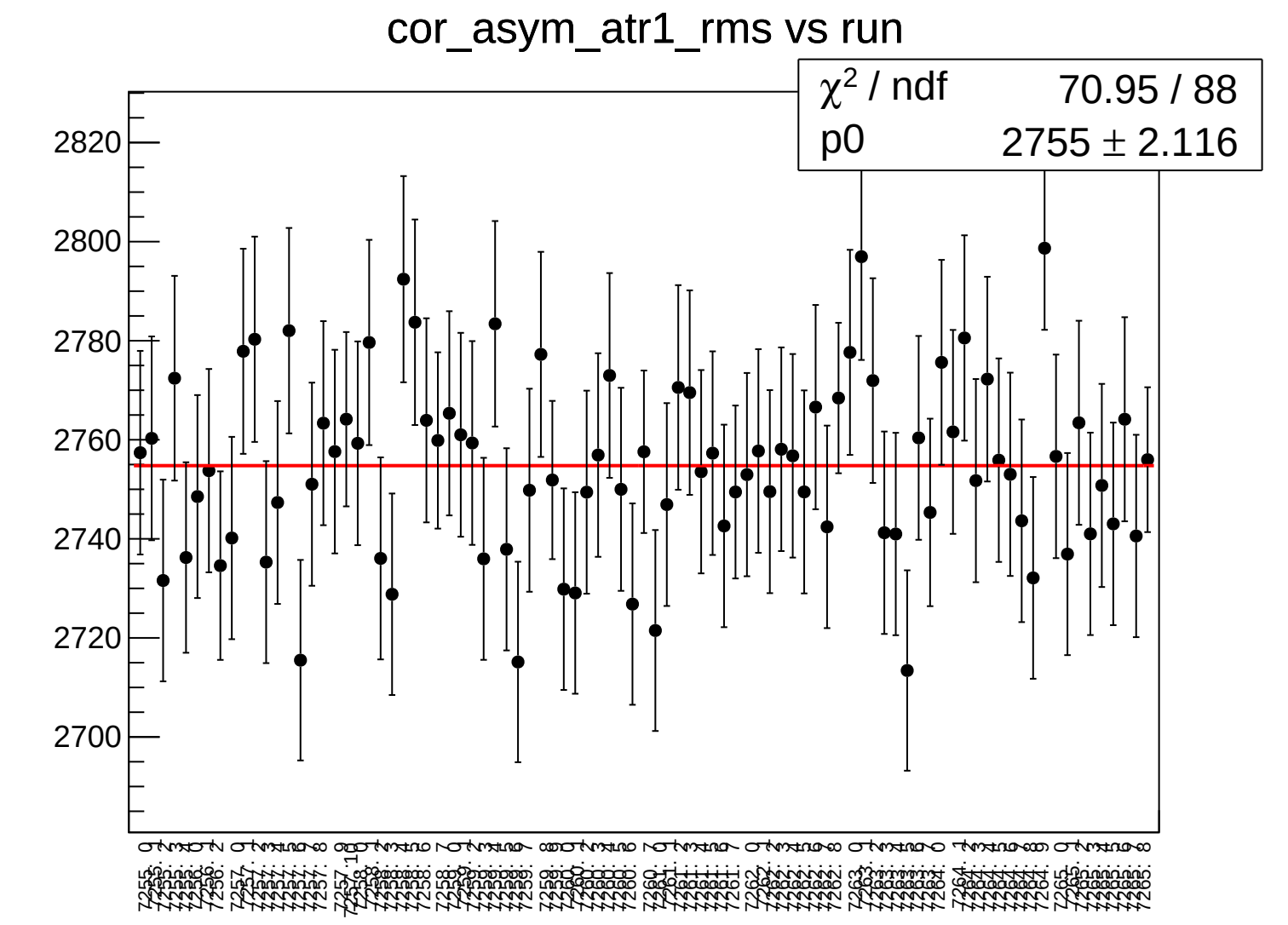

reg_asym_atr1_rms vs run
χ² / ndf 70.95 / 88
p0 2755 ± 2.116
2820
2800
2780
2760
2740
2720
2700

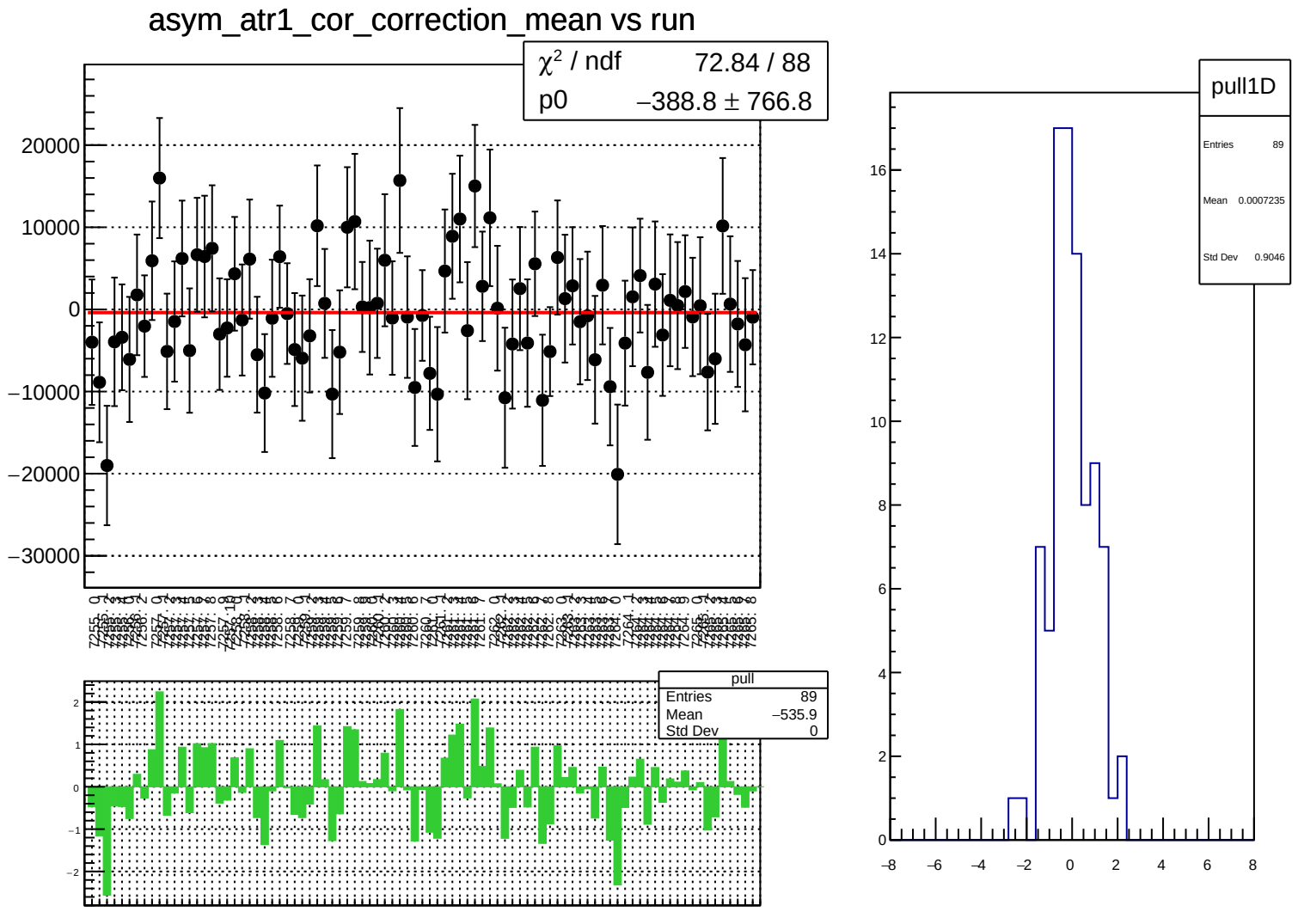

asym_atr1_reg_correction_mean vs run
χ² / ndf 72.84 / 88
p0 −388.7 ± 766.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −543.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.0007121
Std Dev 0.9047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

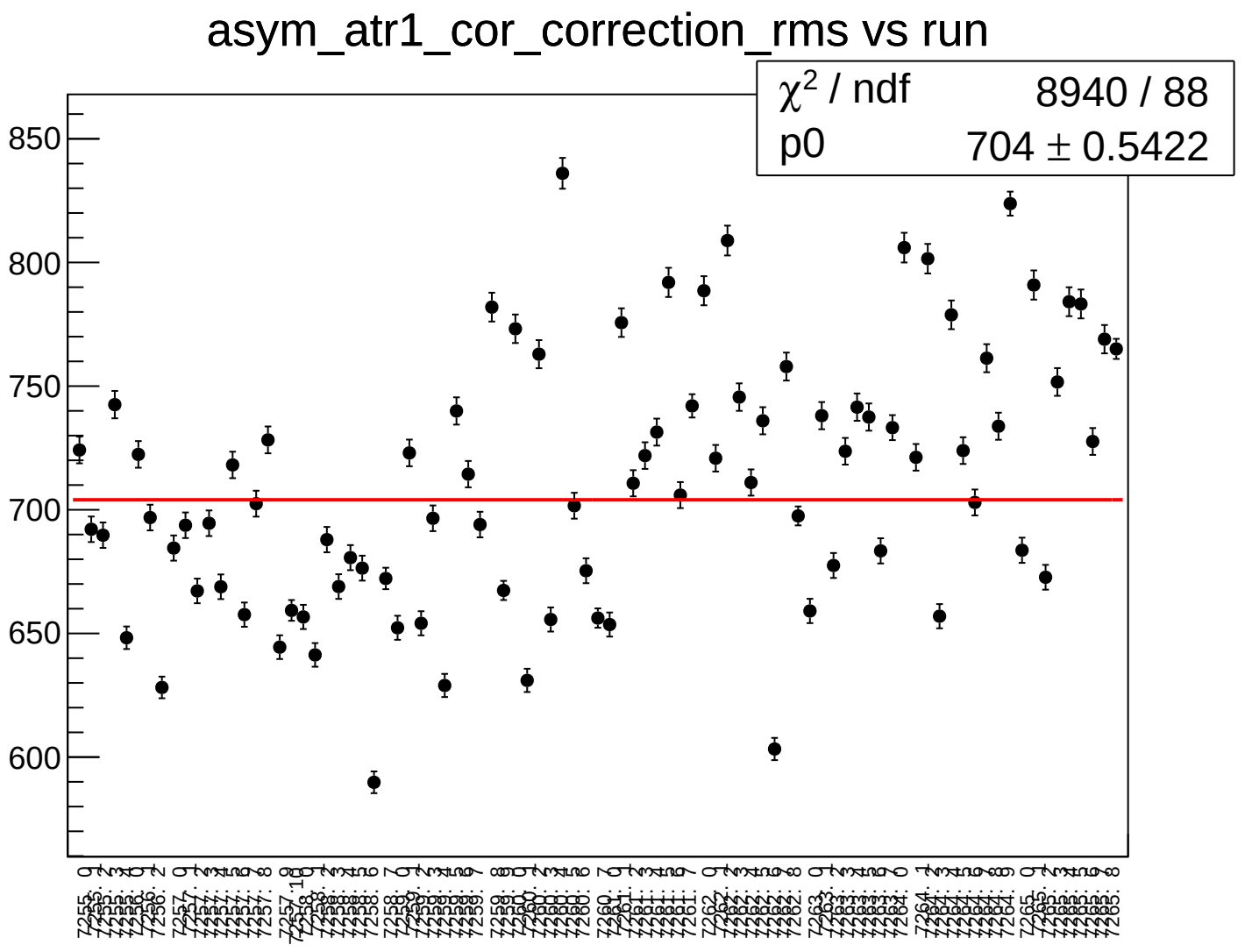

asym_atr1_reg_correction_rms vs run
χ² / ndf 8947 / 88
p0 704 ± 0.5422
850
800
750
700
650
600

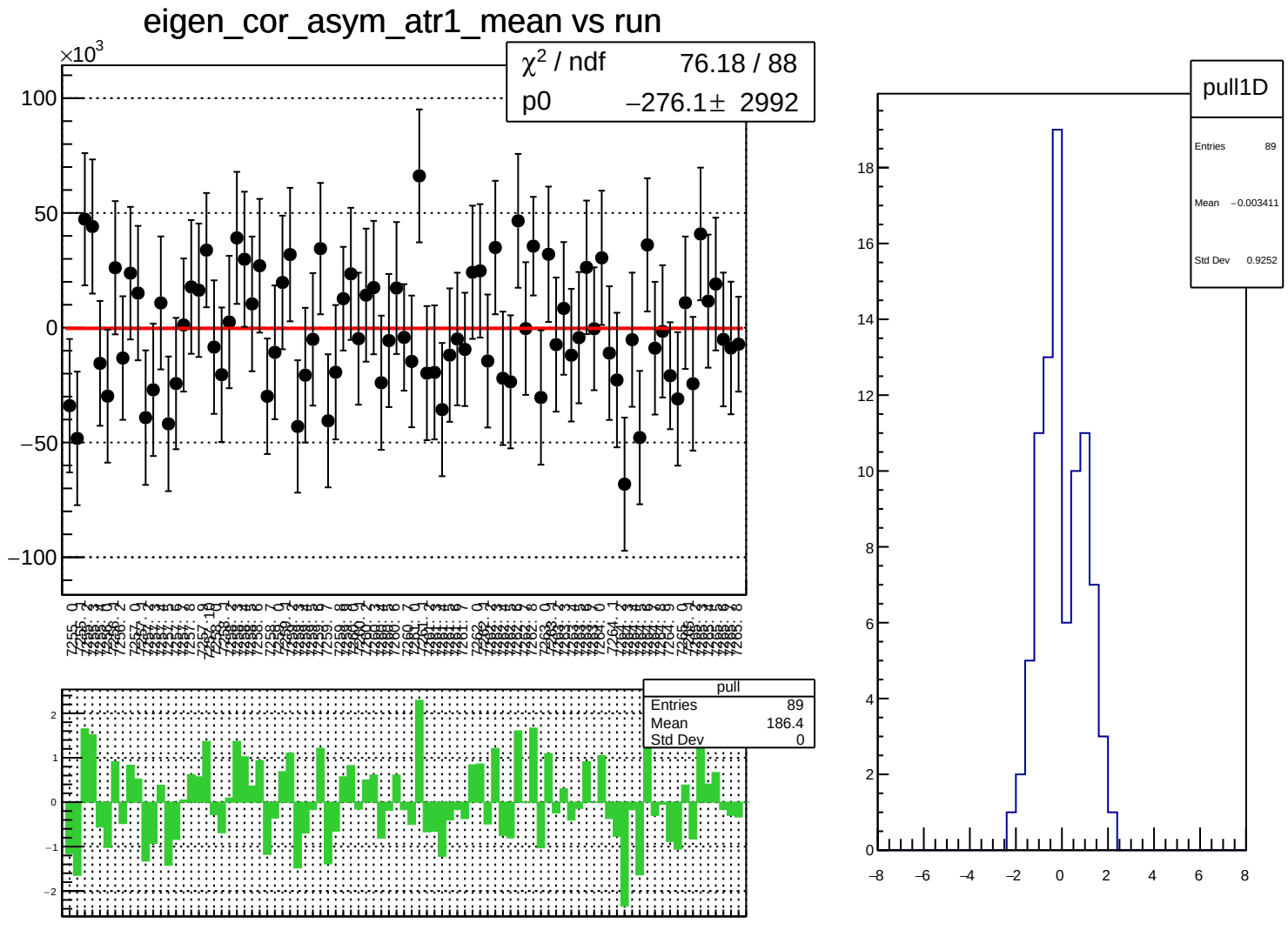

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 76.18 / 88
p0 −276.1± 2992
100
50
0
−50
−100
pull
Entries 89
Mean 186.4
Std Dev 0
2
1
0
−1
−2

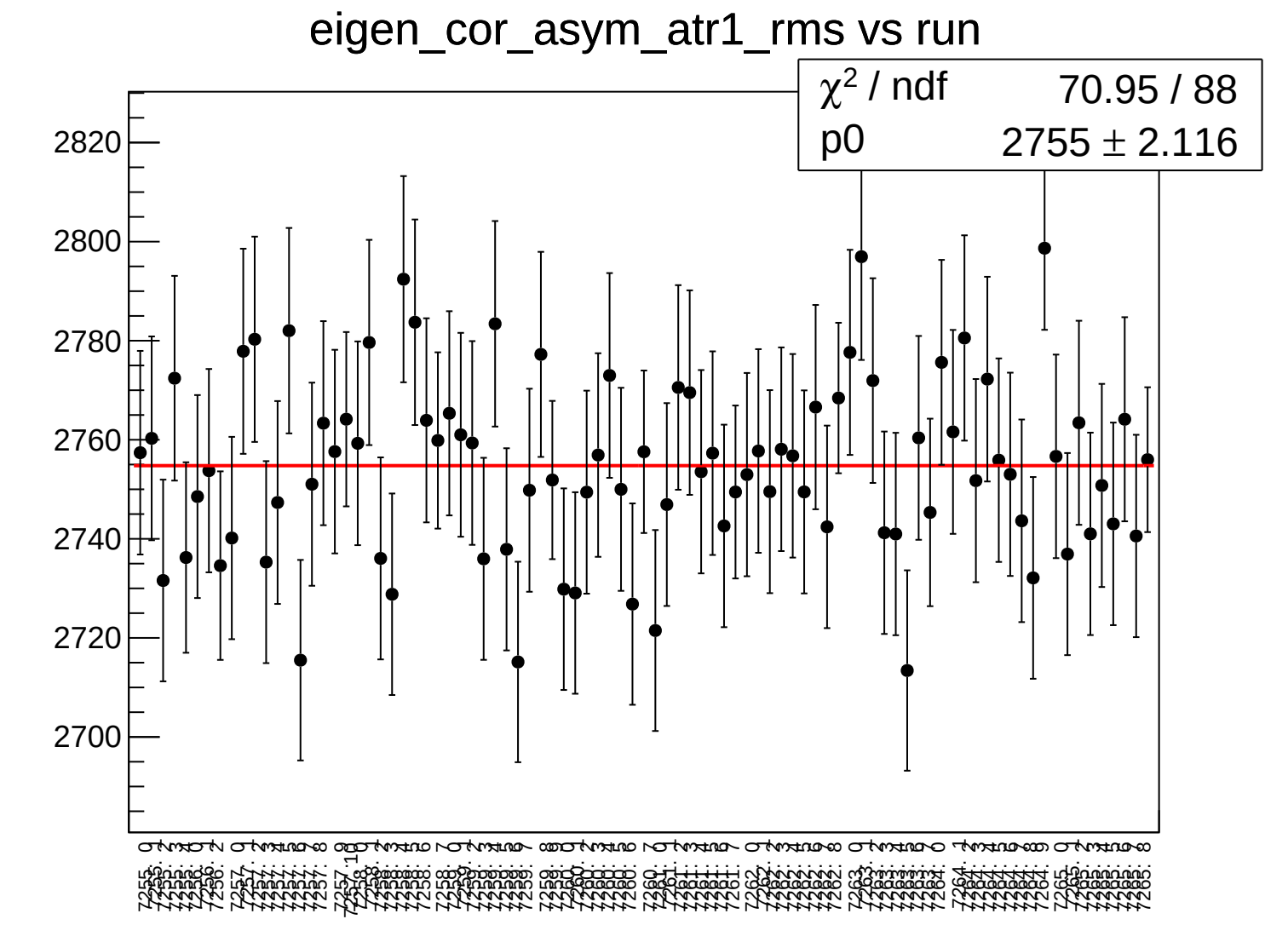

pull1D
Entries 89
Mean −0.003411
Std Dev 0.9252
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

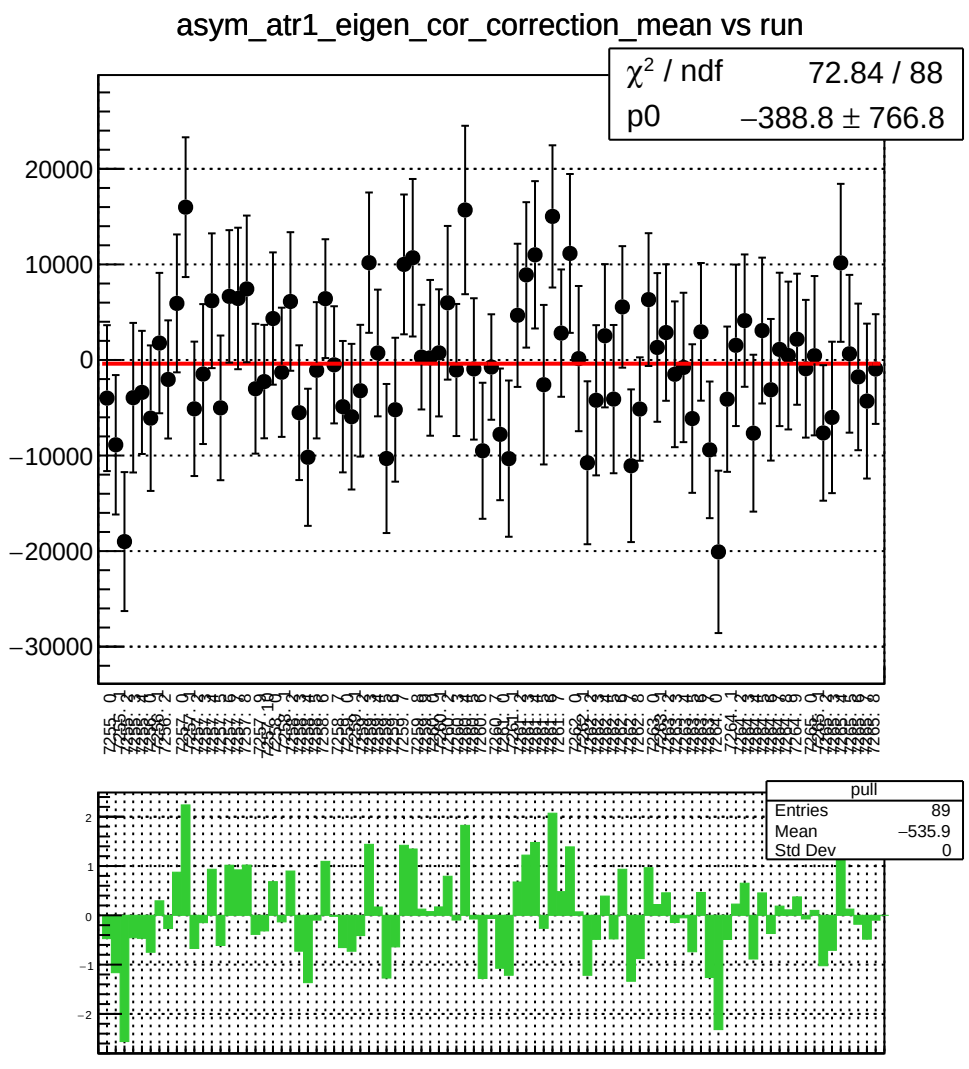

cor_asym_atr1_rms vs run
χ^2 / ndf 70.95 / 88
p0 2755 ± 2.116
2820
2800
2780
2760
2740
2720
2700

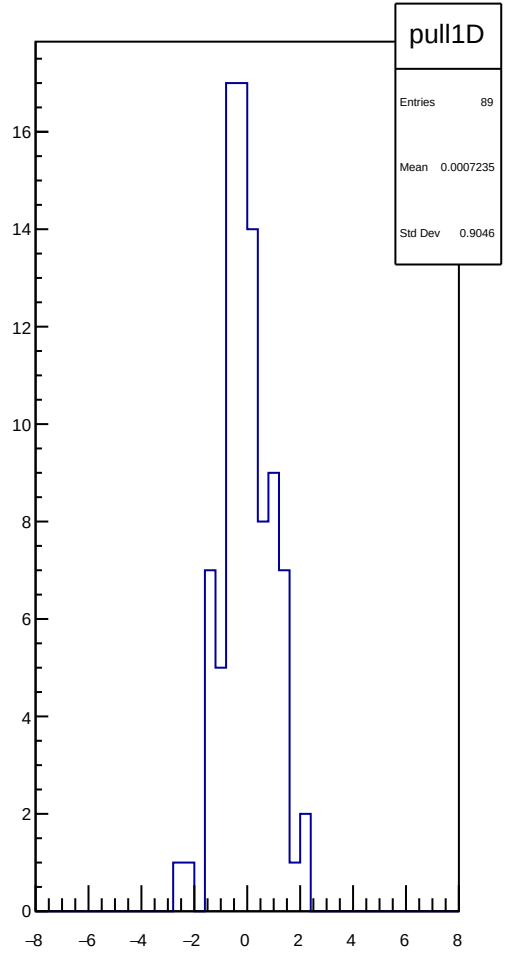

asym_atr1_cor_correction_mean vs run
χ² / ndf 72.84 / 88
p0 −388.8 ± 766.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −535.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.0007235
Std Dev 0.9046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

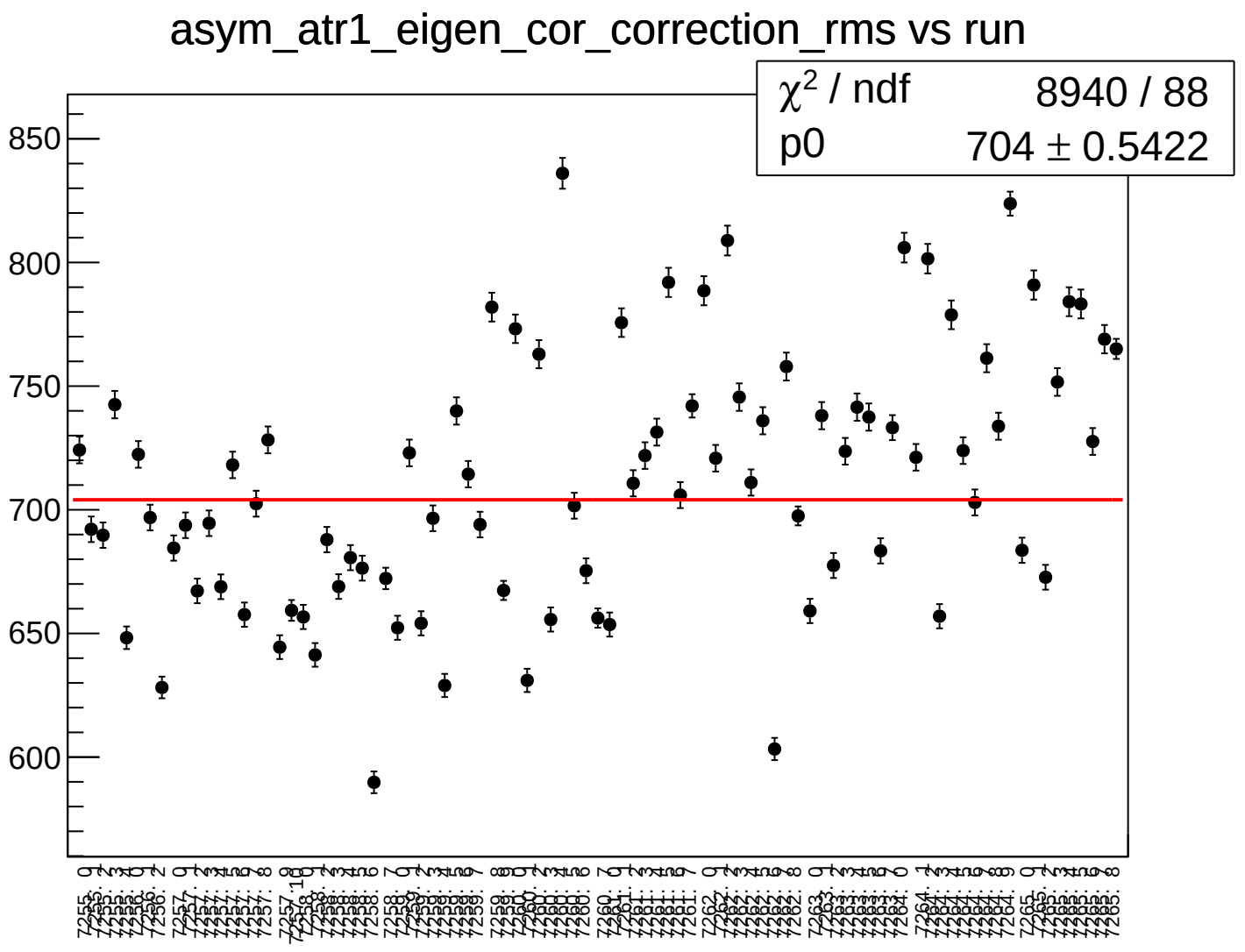

asym_atr1_cor_correction_rms vs run
χ² / ndf 8940 / 88
p0 704 ± 0.5422
850
800
750
700
650
600

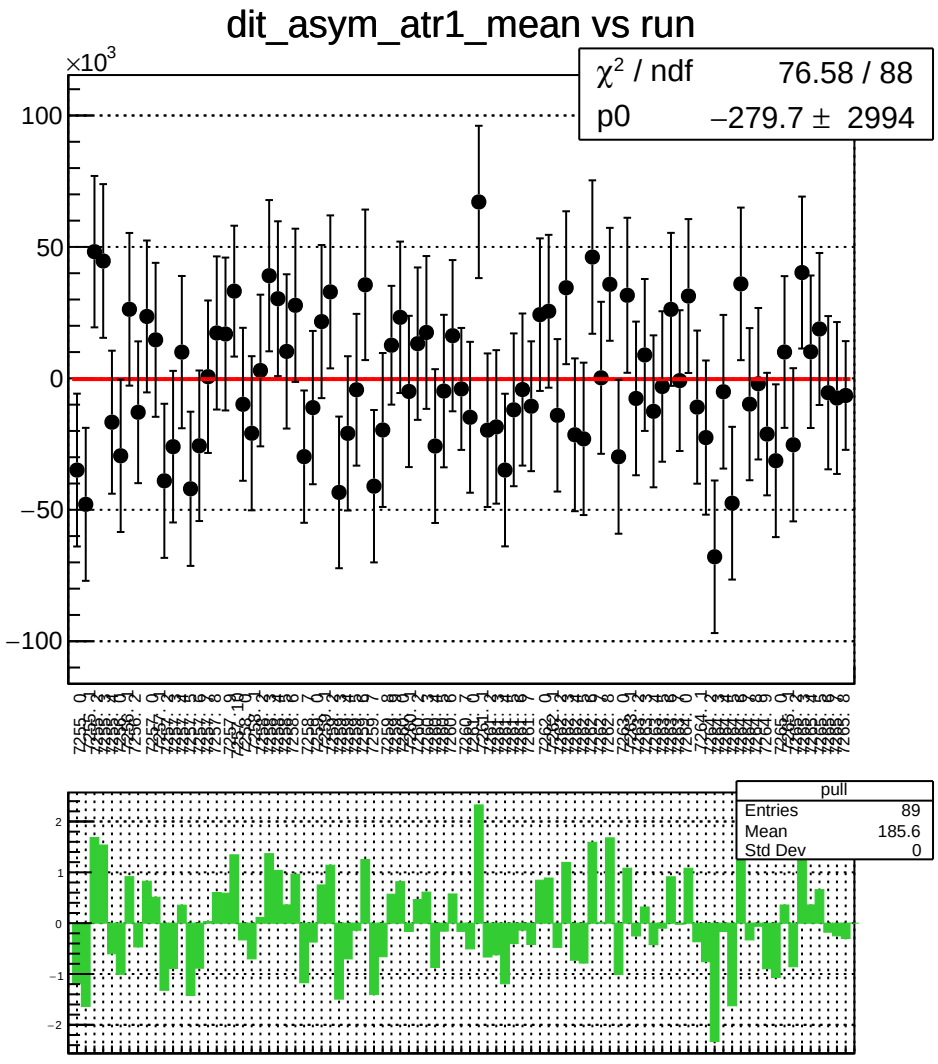

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 76.18 / 88
p0 −276.1± 2992
100
50
0
−50
−100
pull
Entries 89
Mean 186.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.003411
Std Dev 0.9252
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

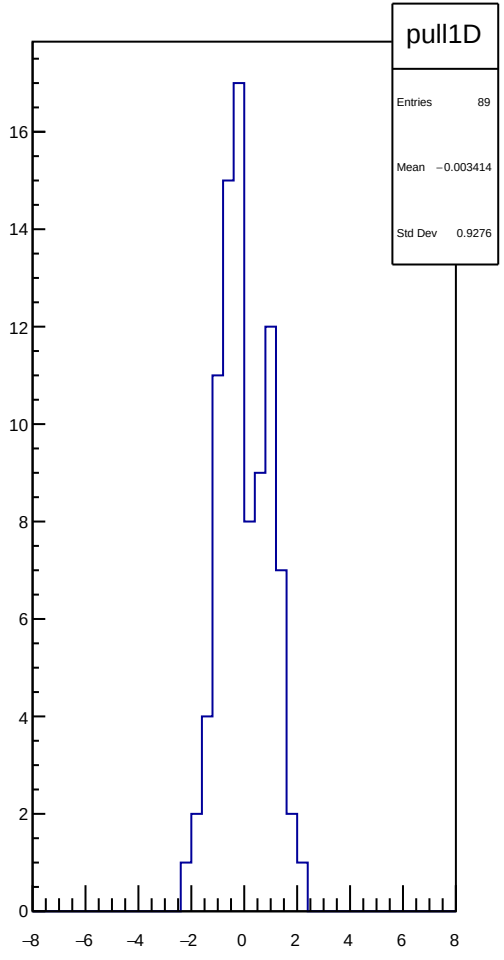

eigen_cor_asym_atr1_rms vs run
χ^2 / ndf 70.95 / 88
p0 2755 ± 2.116
2820
2800
2780
2760
2740
2720
2700

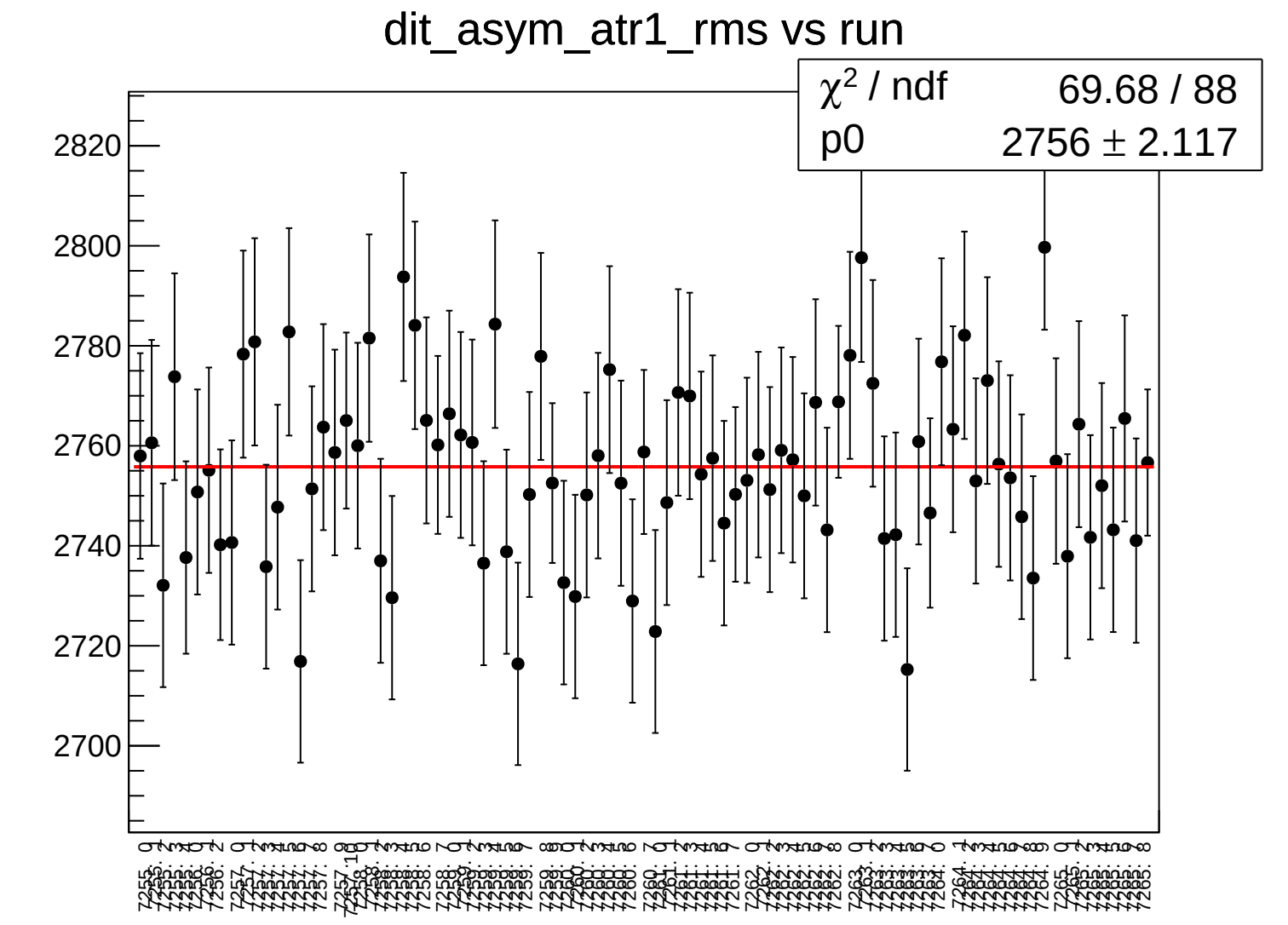

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 72.84 / 88
p0 −388.8 ± 766.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −535.9
Std Dev 0
2
1
0
−1
−2

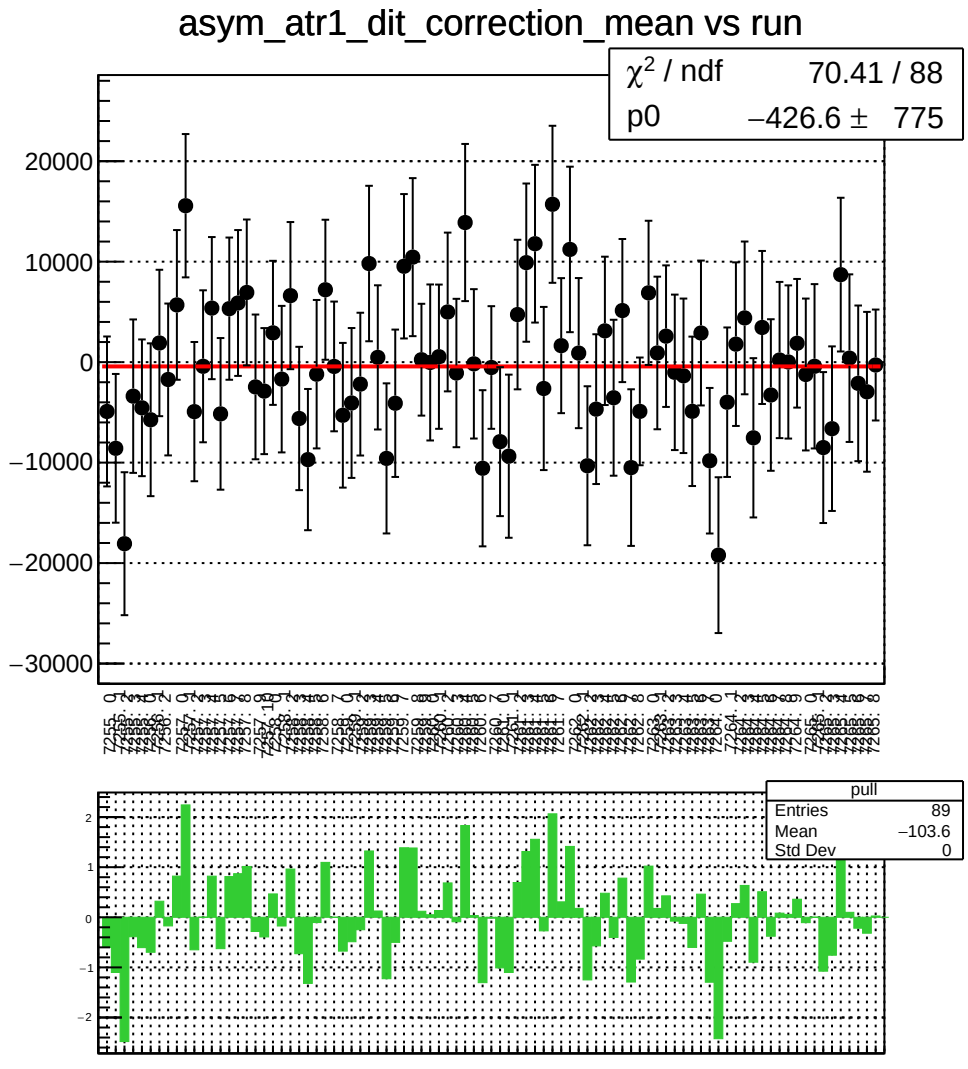

pull1D
Entries 89
Mean 0.0007235
Std Dev 0.9046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

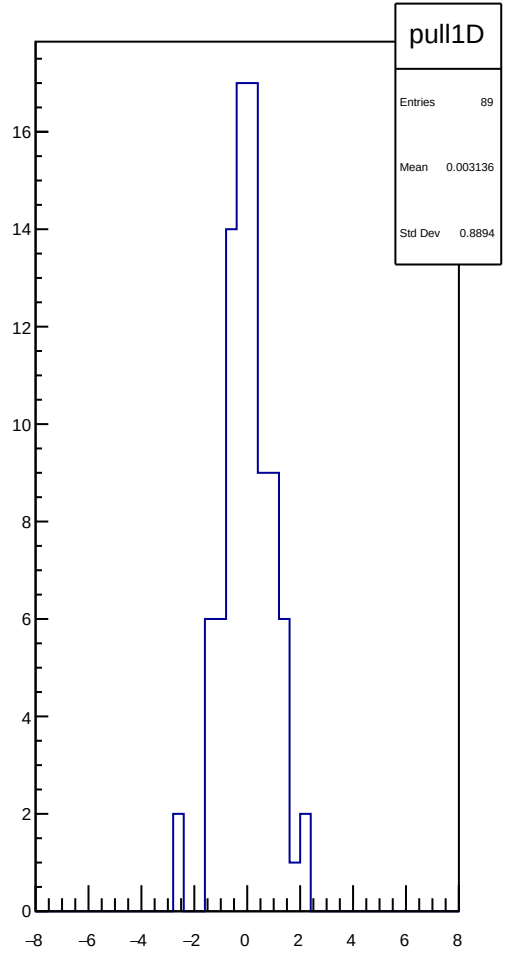

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 8940 / 88
p0 704 ± 0.5422
850
800
750
700
650
600

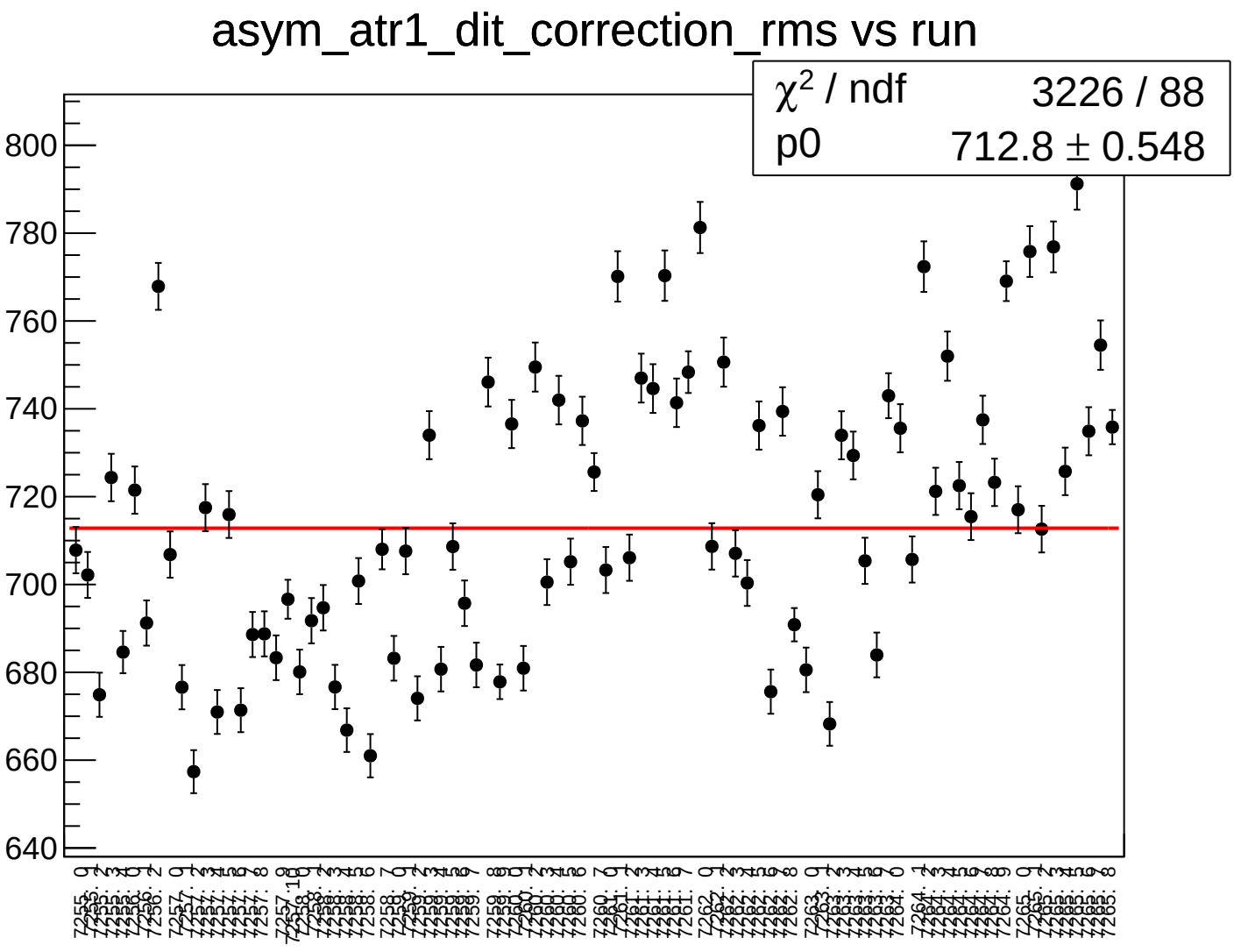

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 76.58 / 88
p0 −279.7 ± 2994
100
50
0
−50
−100
pull
Entries 89
Mean 185.6
Std Dev 0
2
1
0
−1
−2

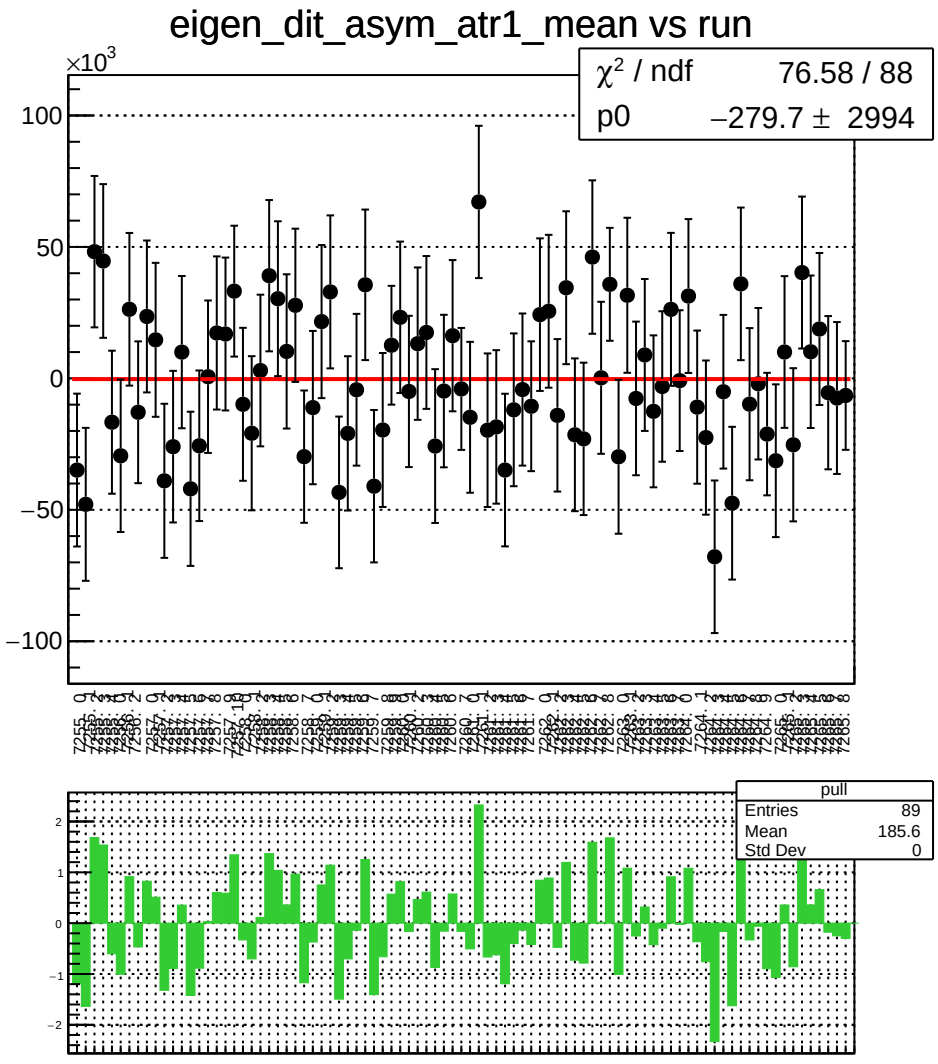

pull1D
Entries 89
Mean −0.003414
Std Dev 0.9276
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

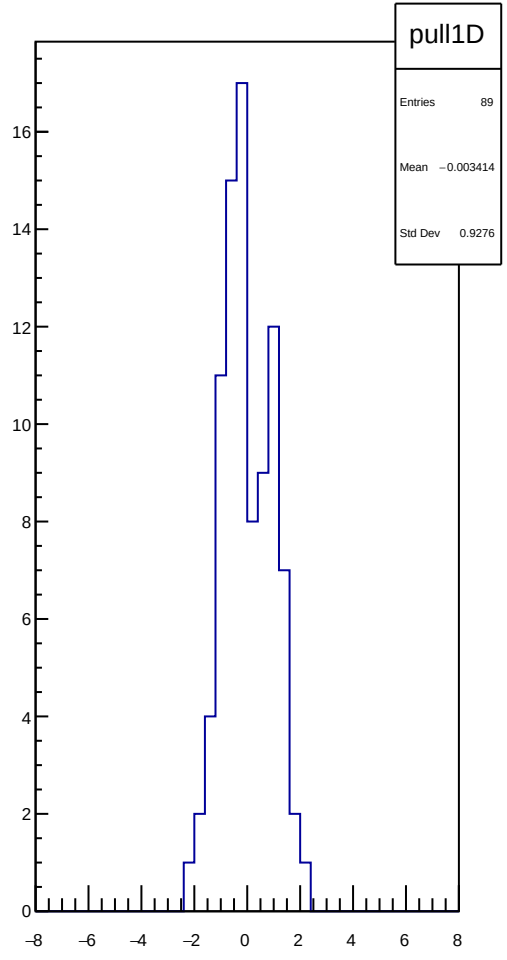

dit_asym_atr1_rms vs run
χ^2 / ndf 69.68 / 88
p0 2756 ± 2.117
2820
2800
2780
2760
2740
2720
2700

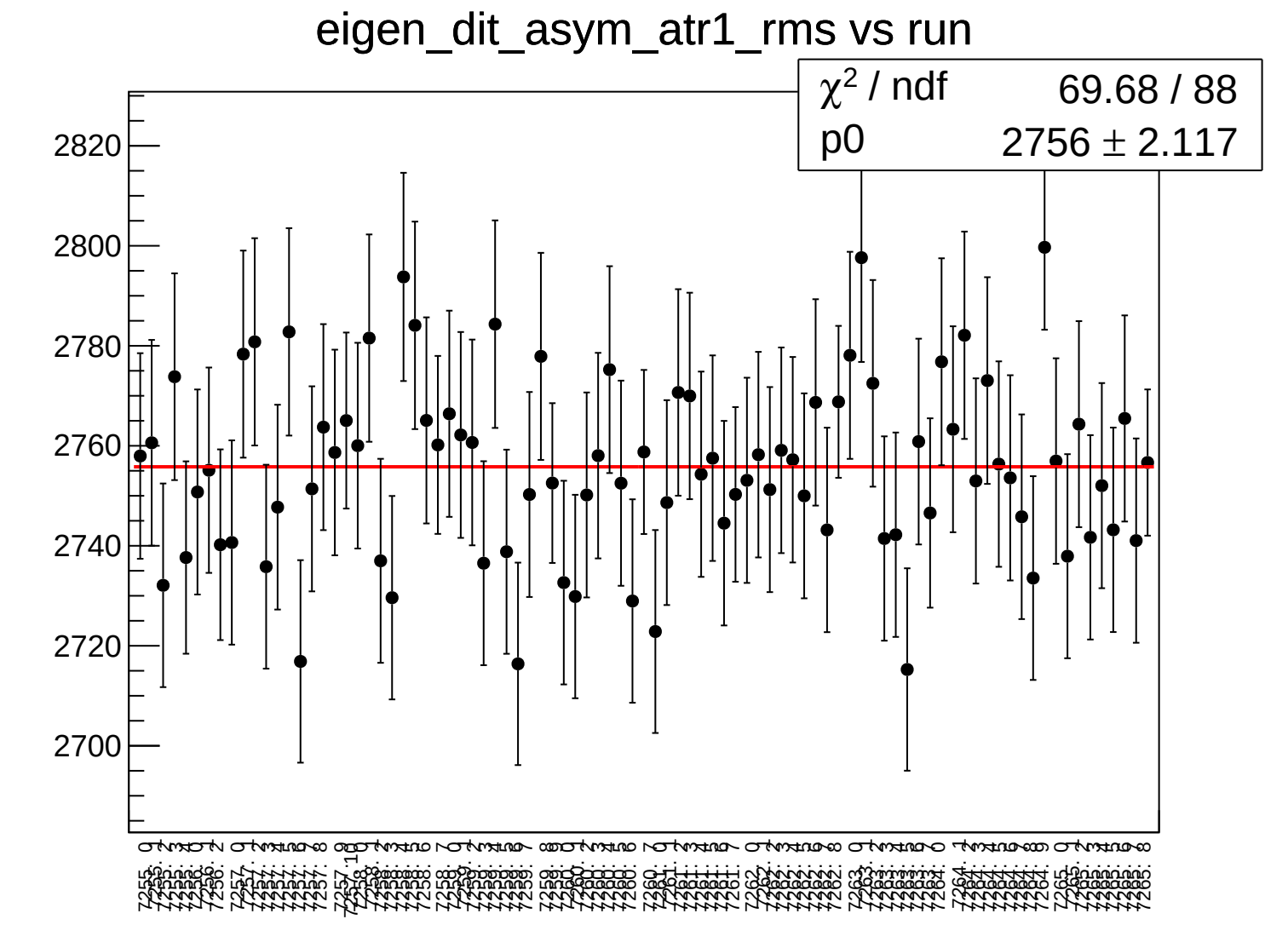

asym_atr1_dit_correction_mean vs run
χ² / ndf 70.41 / 88
p0 −426.6 ± 775
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −103.6
Std Dev 0
2
1
0
−1
−2

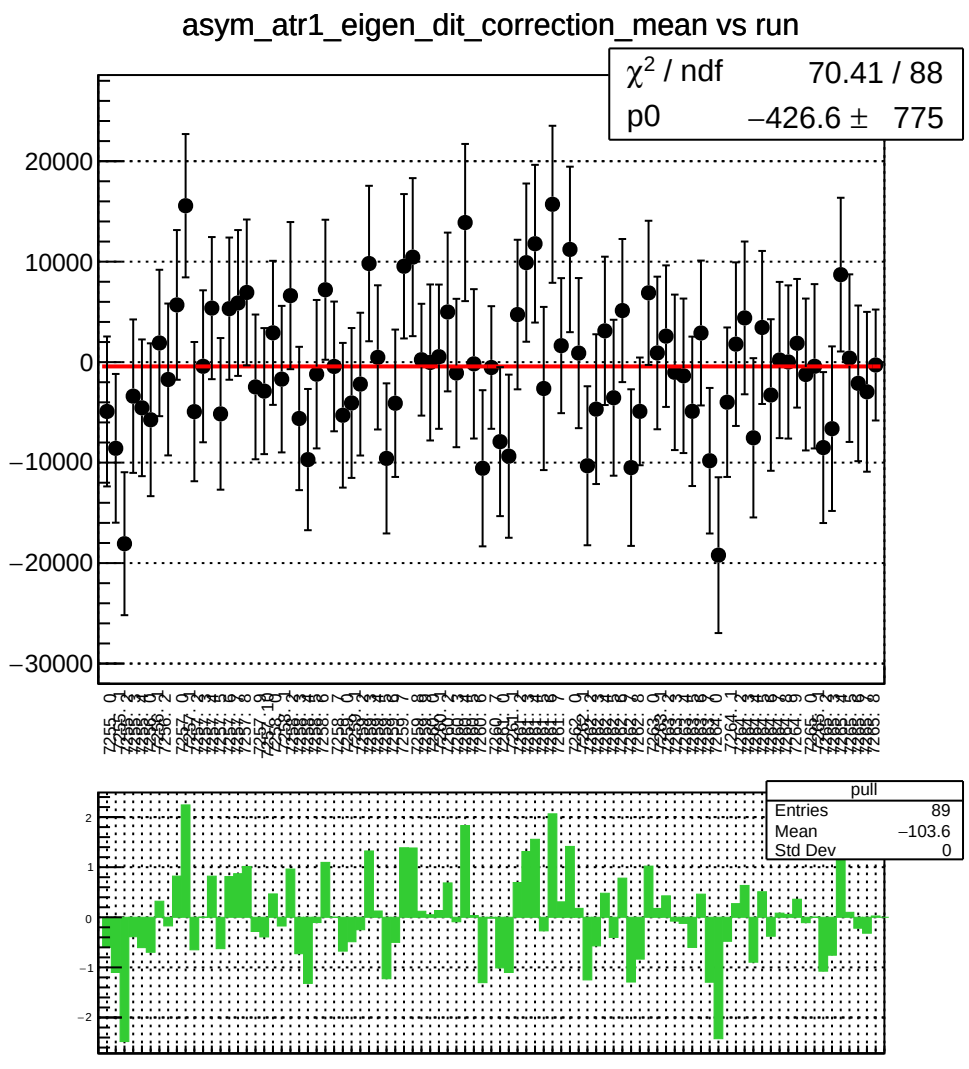

pull1D
Entries 89
Mean 0.003136
Std Dev 0.8894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

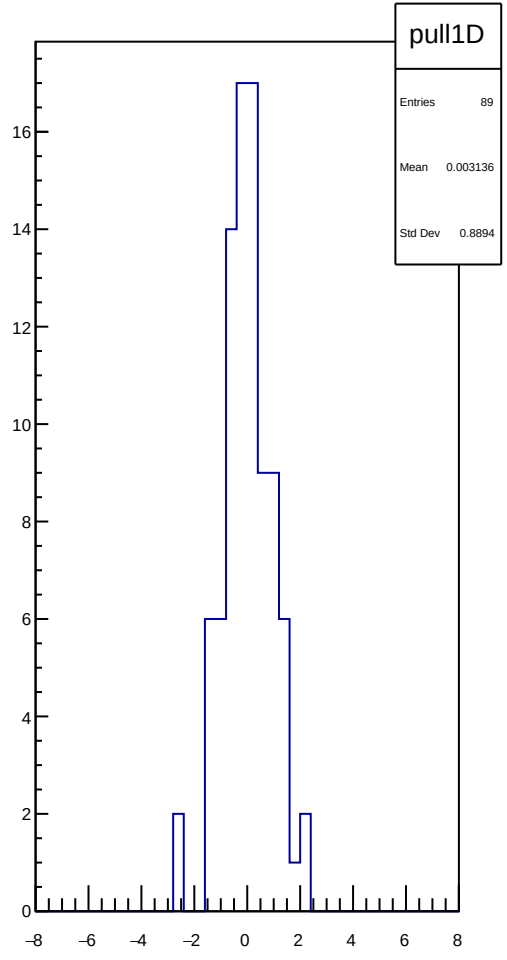

asym_atr1_dit_correction_rms vs run
χ² / ndf 3226 / 88
p0 712.8 ± 0.548
800
780
760
740
720
700
680
660
640

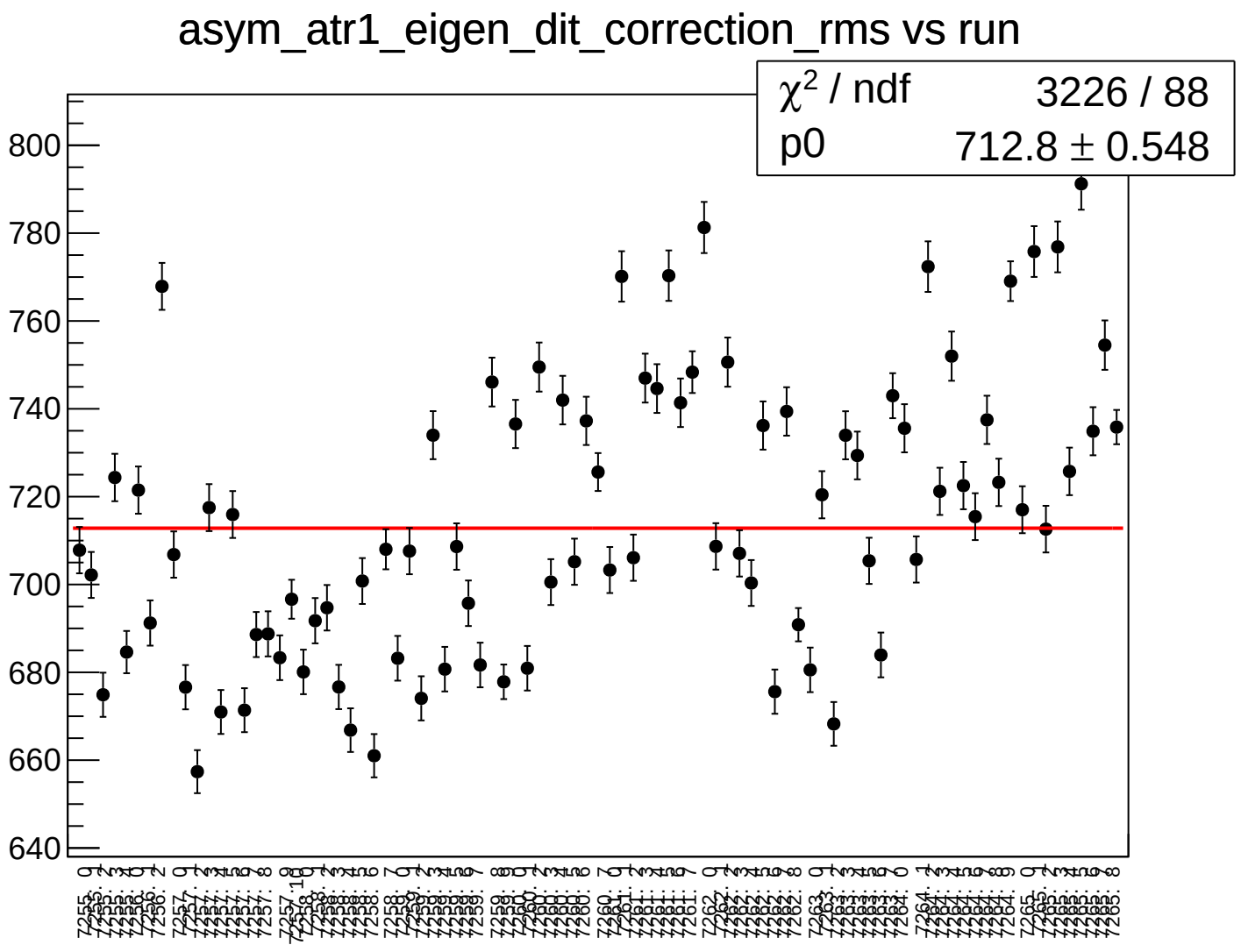

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 76.58 / 88
p0 −279.7 ± 2994
100
50
0
−50
−100
pull
Entries 89
Mean 185.6
Std Dev 0
2
1
0
−1
−2

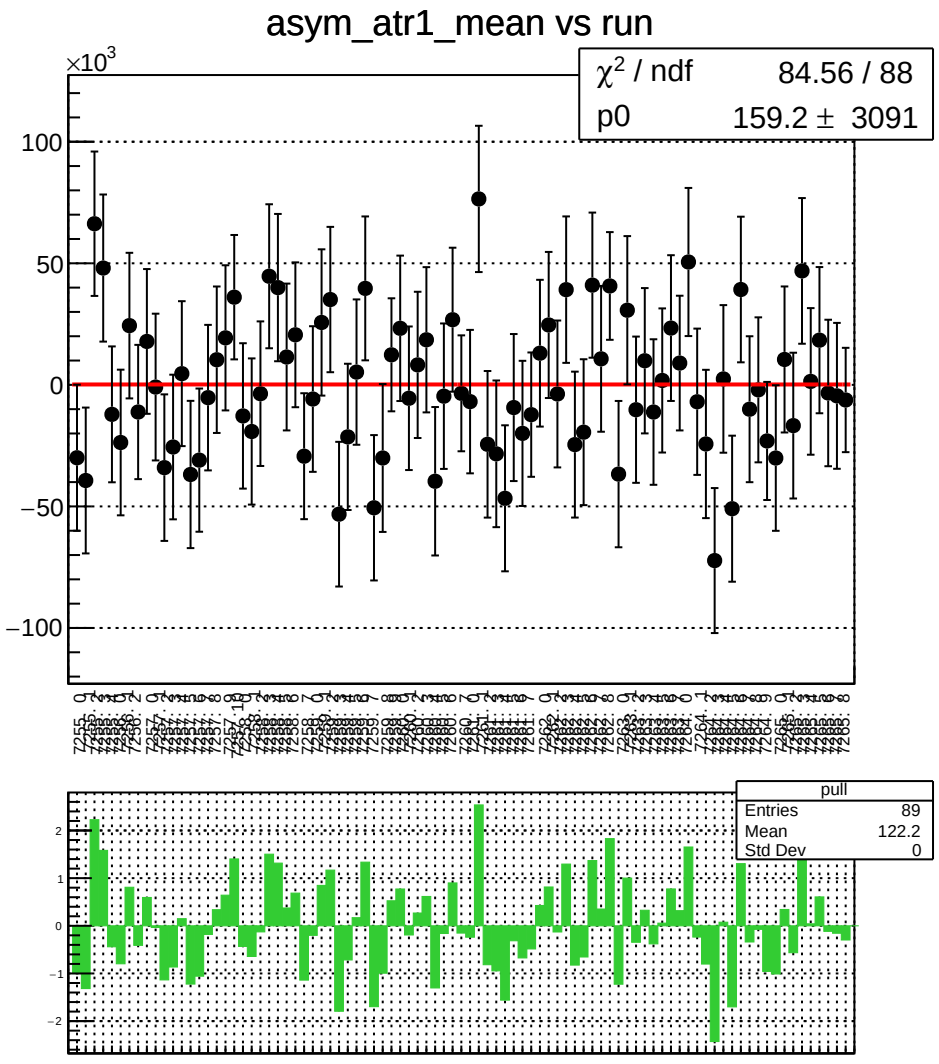

pull1D
Entries 89
Mean −0.003414
Std Dev 0.9276
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

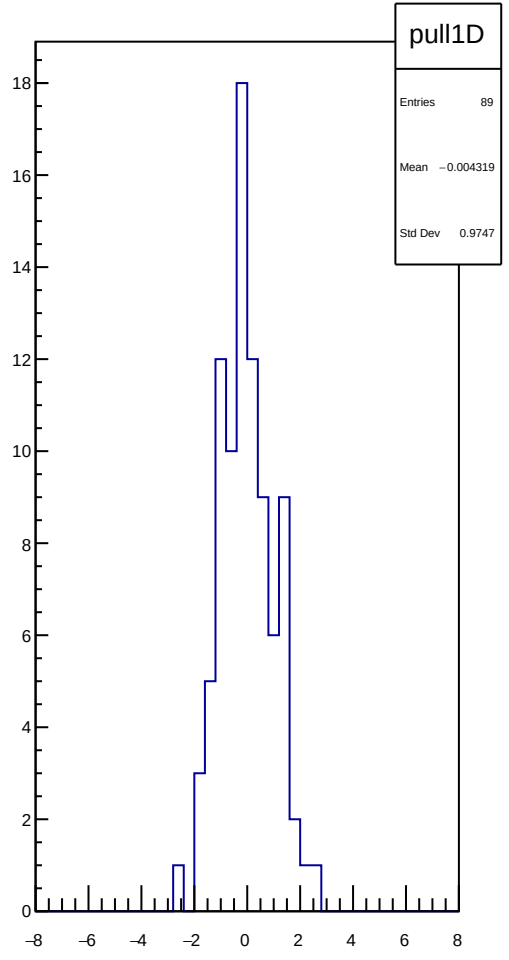

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 69.68 / 88
p0 2756 ± 2.117
2820
2800
2780
2760
2740
2720
2700

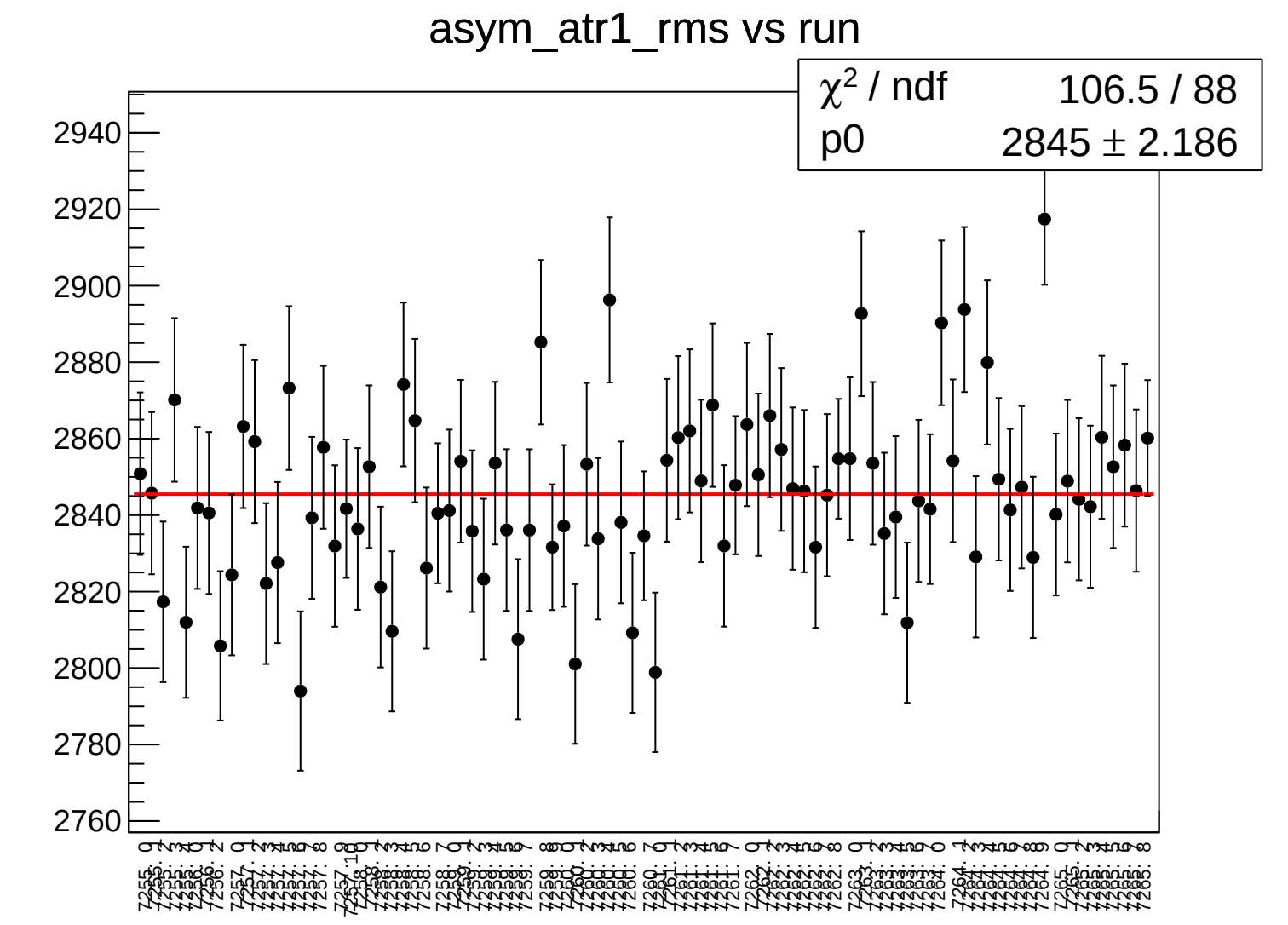

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 70.41 / 88
p0 −426.6 ± 775
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −103.6
Std Dev 0
2
1
0
−1
−2

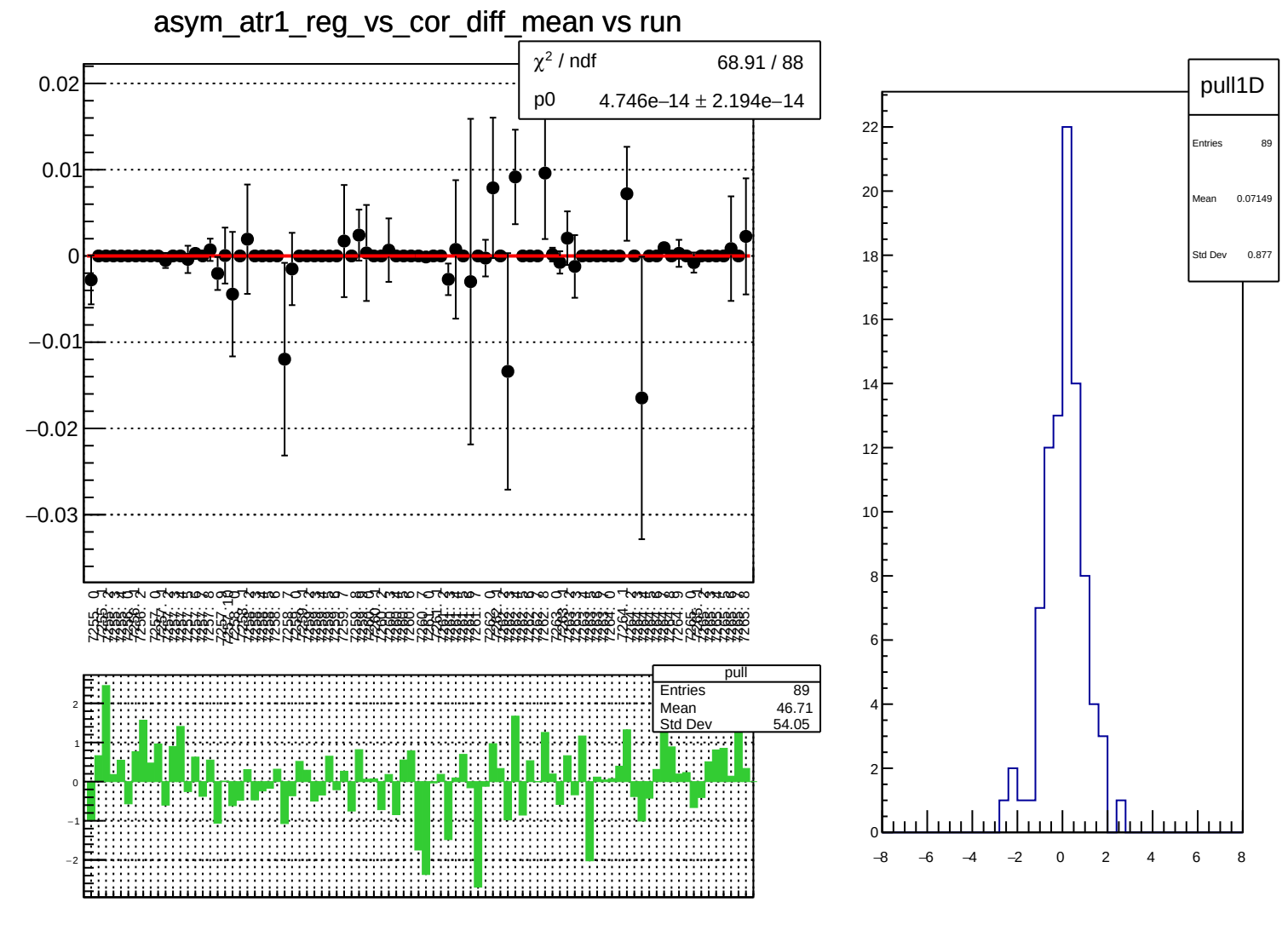

pull1D
Entries 89
Mean 0.003136
Std Dev 0.8894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

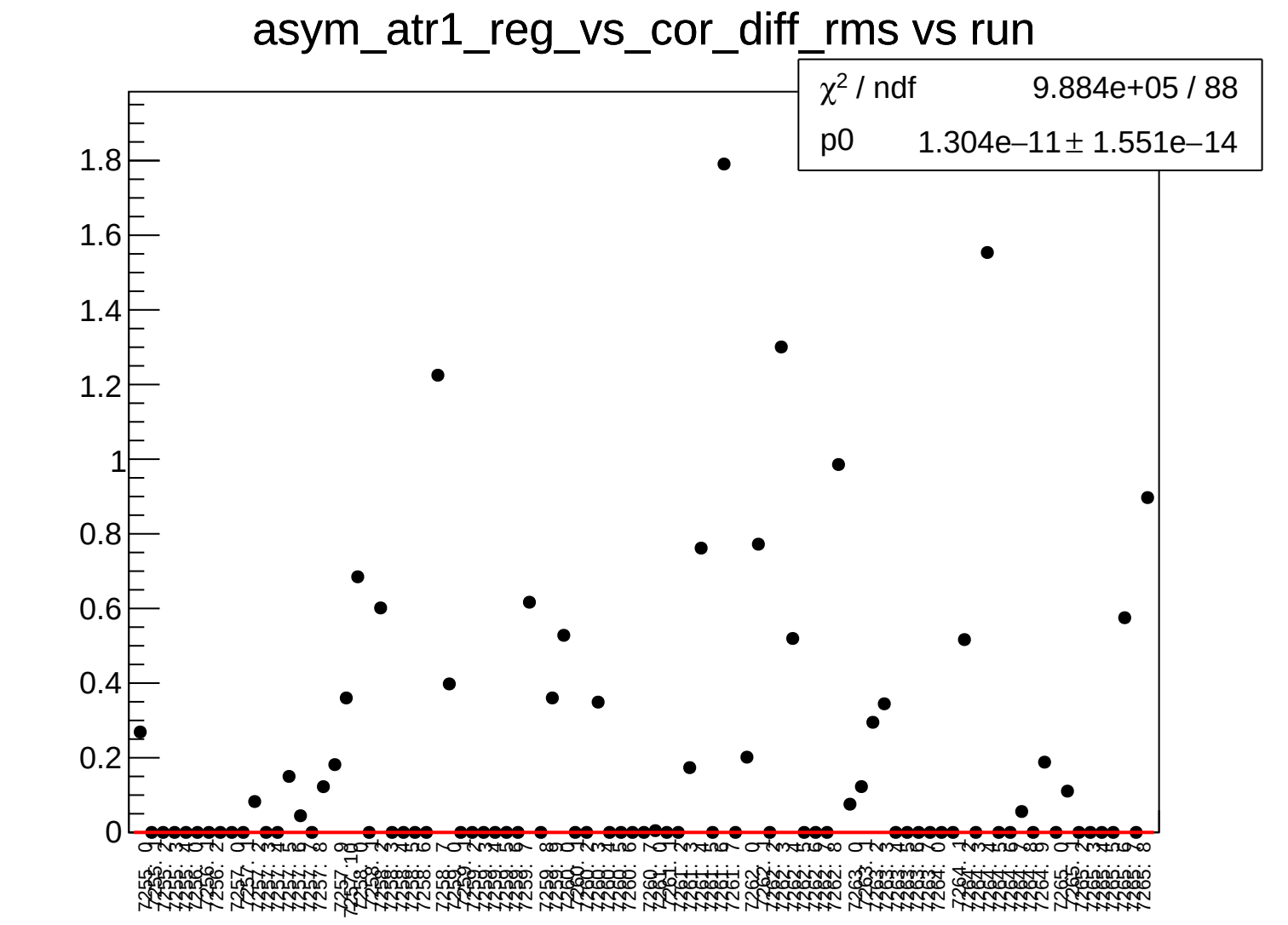

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 3226 / 88
p0 712.8 ± 0.548
800
780
760
740
720
700
680
660
640

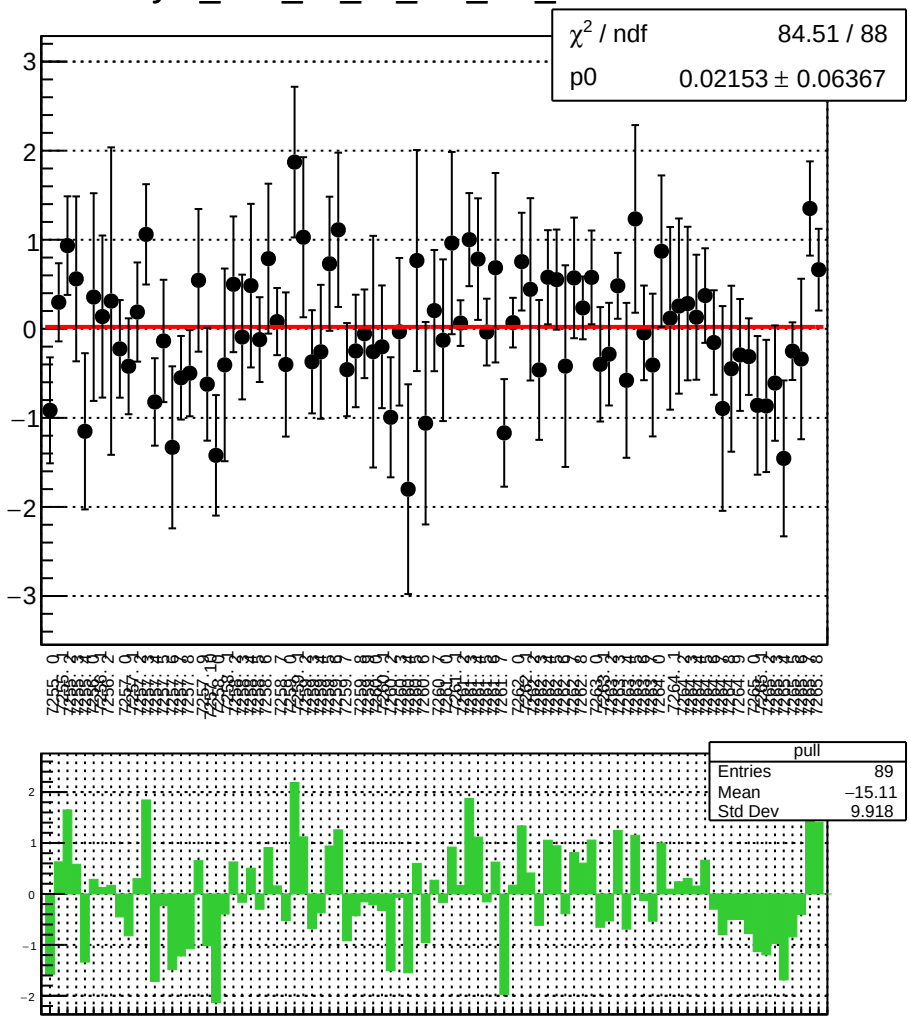

asym_atr1_mean vs run
×10^3
χ² / ndf 84.56 / 88
p0 159.2 ± 3091
100
50
0
−50
−100
pull
Entries 89
Mean 122.2
Std Dev 0
2
1
0
−1
−2

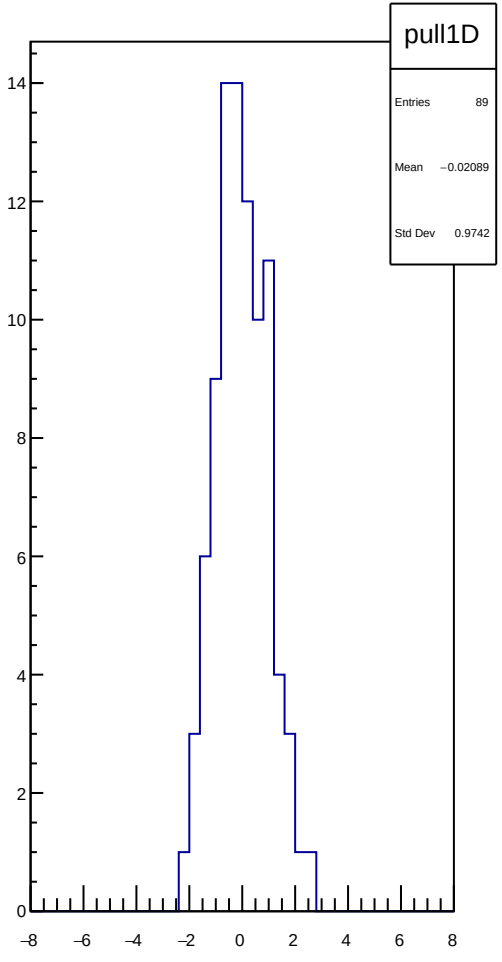

pull1D
Entries 89
Mean −0.004319
Std Dev 0.9747
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

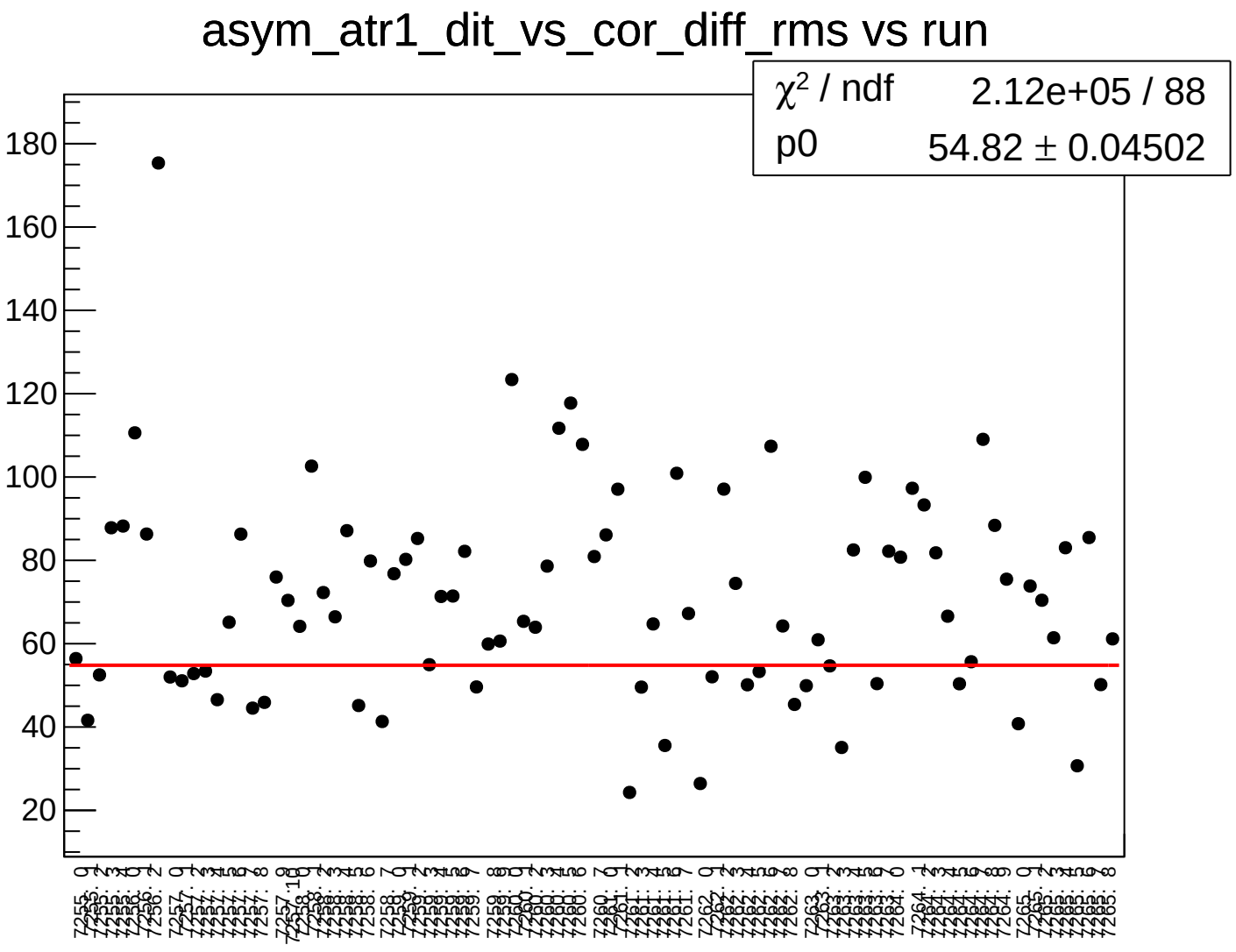

asym_atr1_rms vs run
χ^2 / ndf 106.5 / 88
p0 2845 ± 2.186
2940
2920
2900
2880
2860
2840
2820
2800
2780
2760

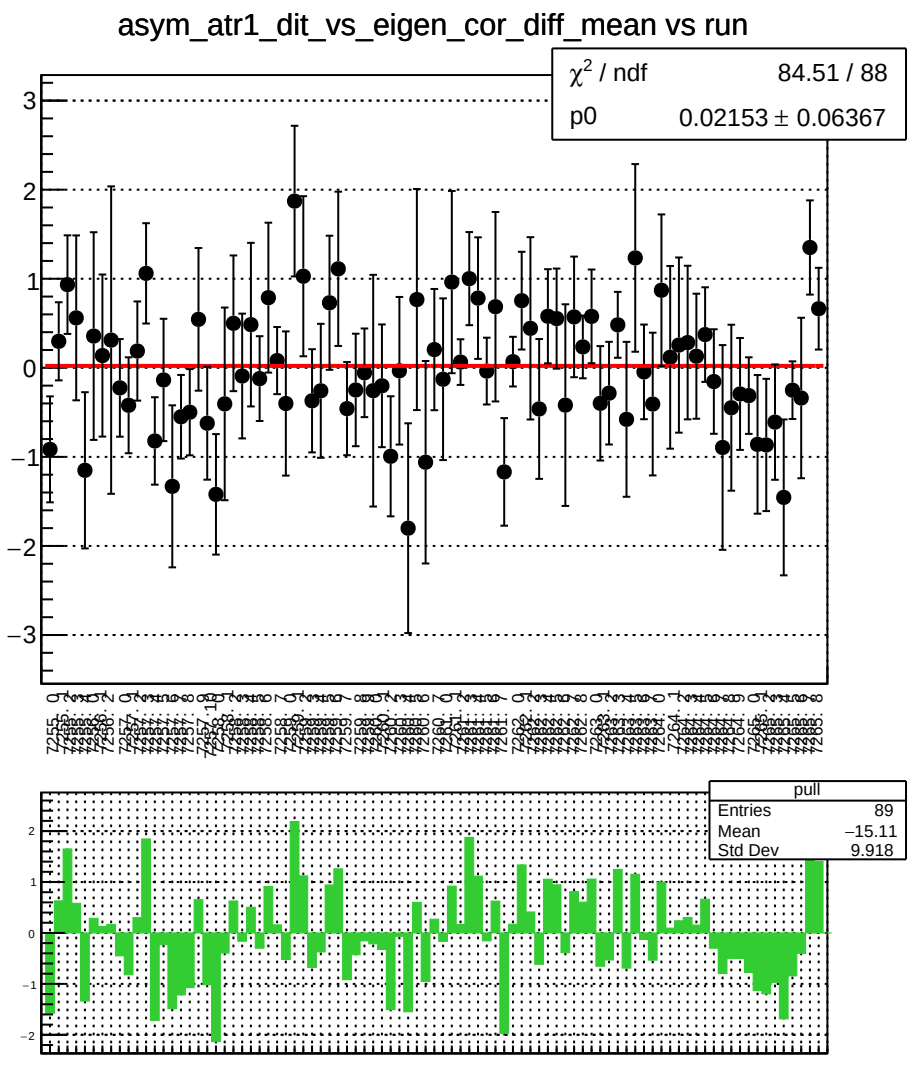

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 68.91 / 88
p0 4.746e−14 ± 2.194e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 46.71
Std Dev 54.05
pull1D
Entries 89
Mean 0.07149
Std Dev 0.877
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

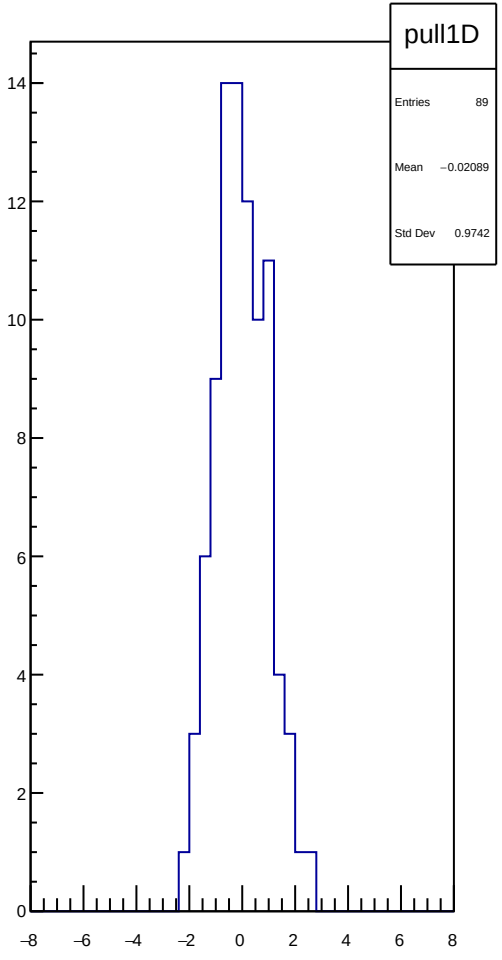

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.884e+05 / 88
p0 1.304e−11 ± 1.551e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

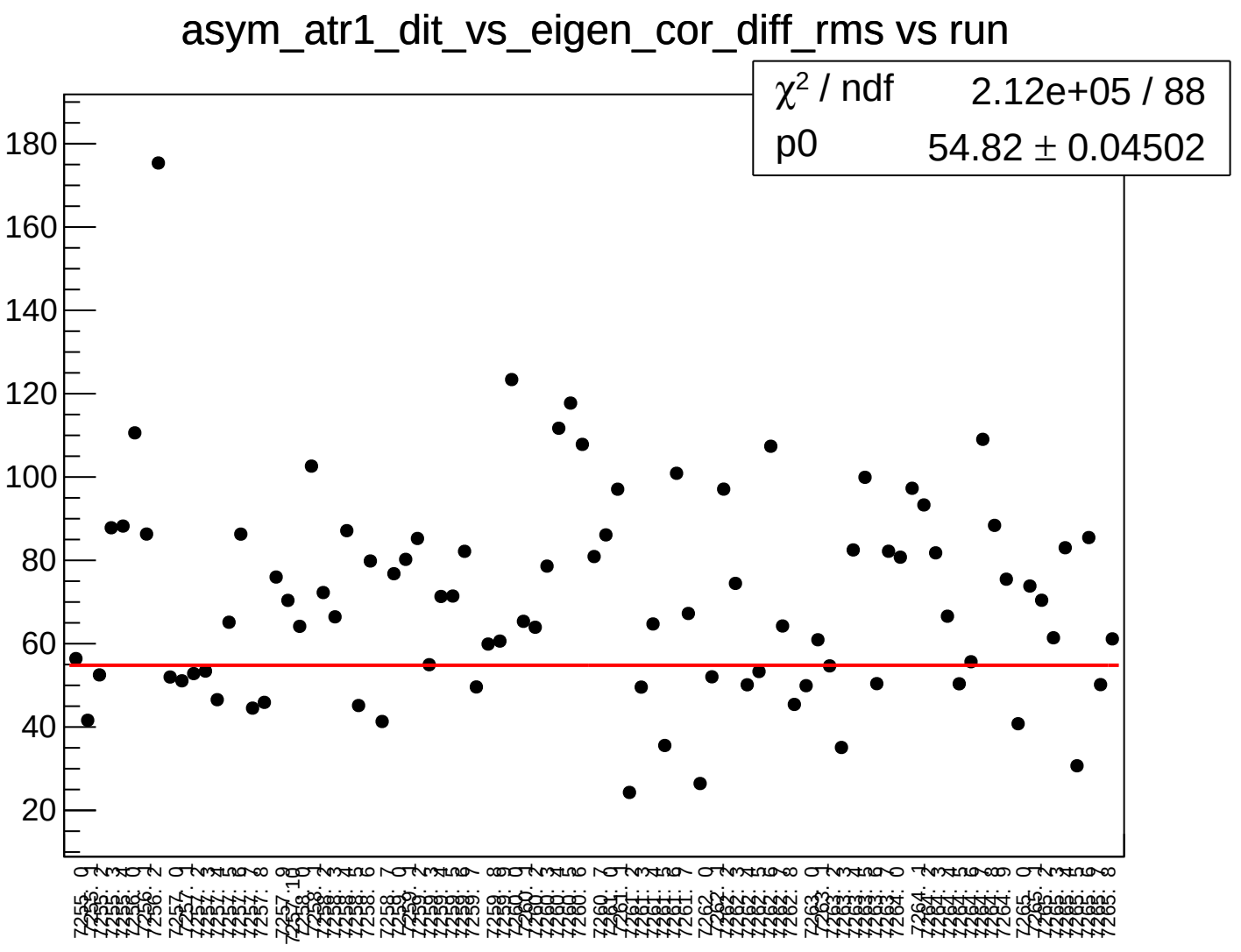

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 84.51 / 88
p0 0.02153 ± 0.06367
pull
Entries 89
Mean −15.11
Std Dev 9.918

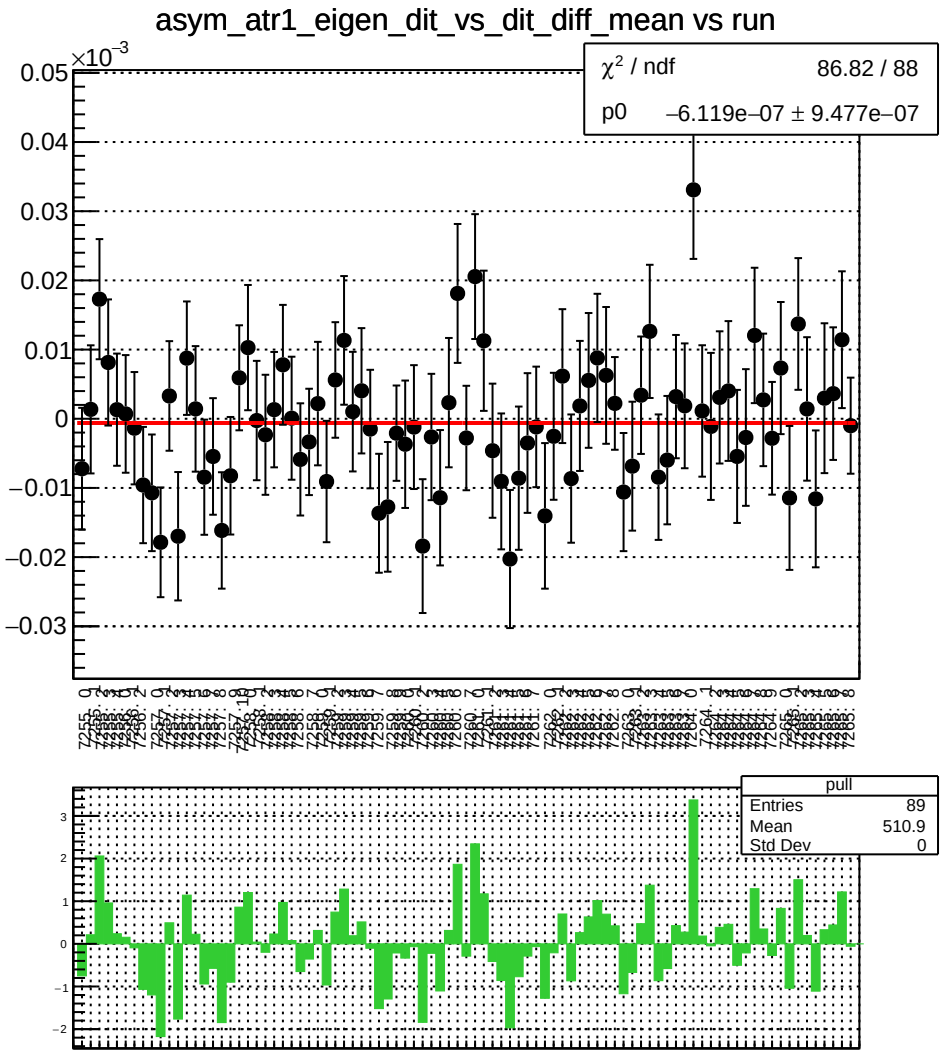

pull1D
Entries 89
Mean −0.02089
Std Dev 0.9742

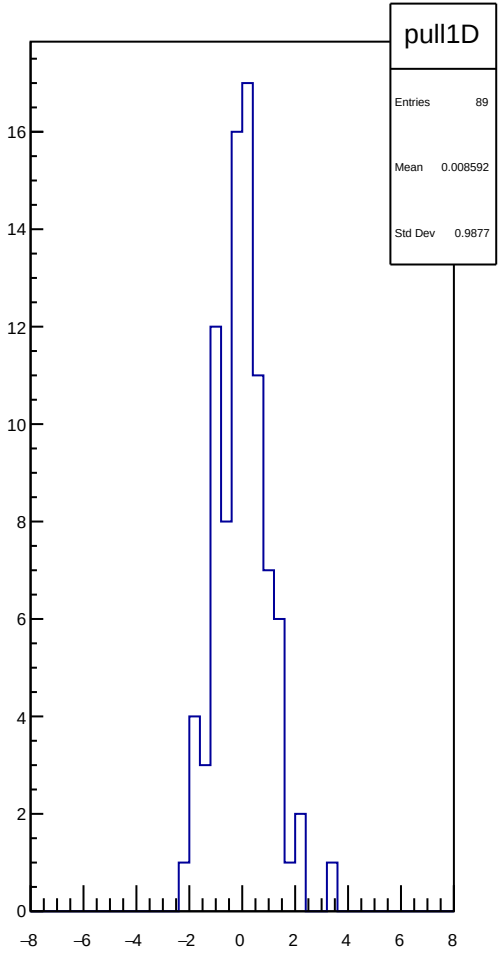

asym_atr1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.12e+05 / 88
p0 54.82 ± 0.04502
180
160
140
120
100
80
60
40
20

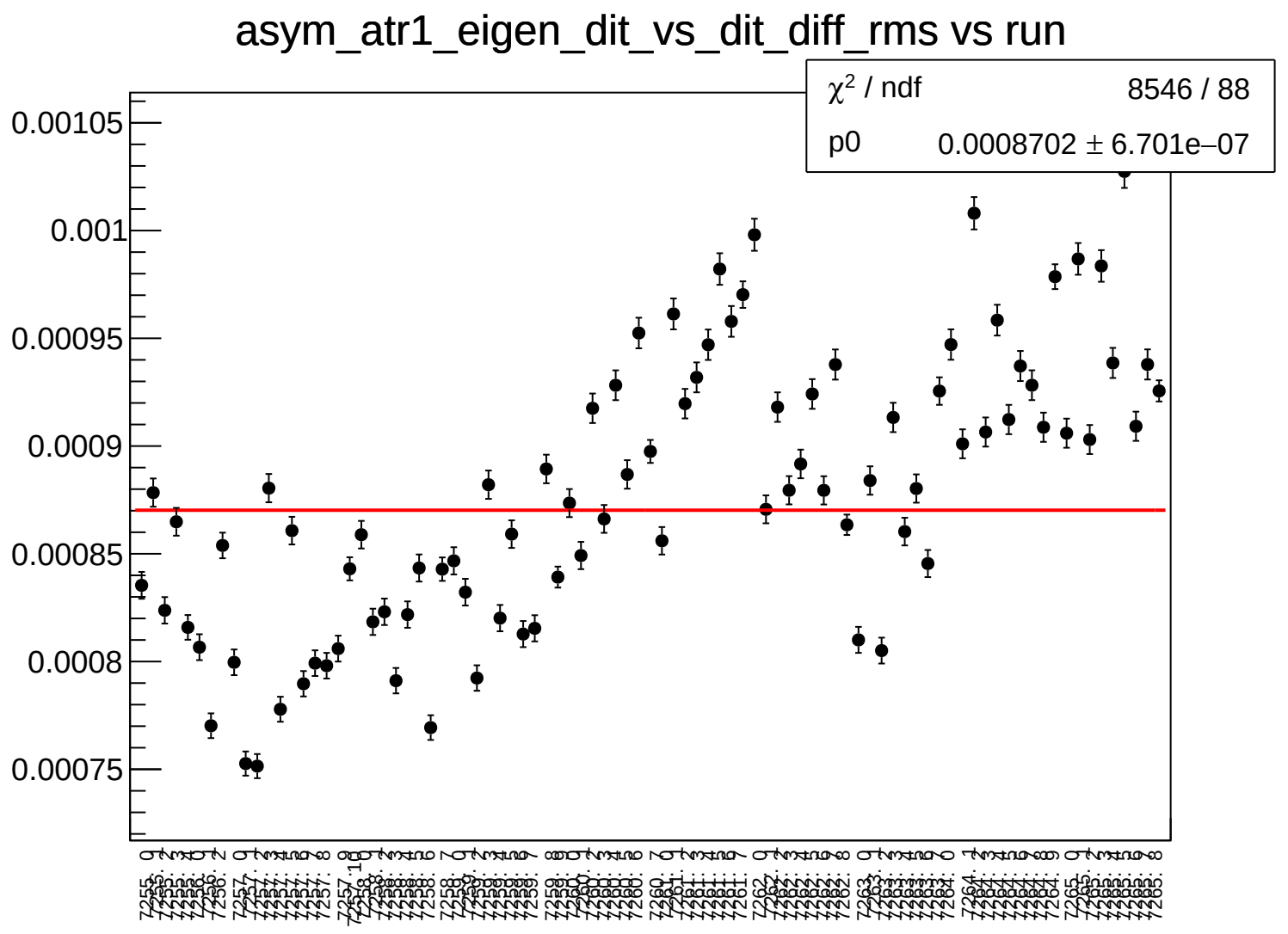

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.51 / 88
p0 0.02153 ± 0.06367
pull
Entries 89
Mean −15.11
Std Dev 9.918

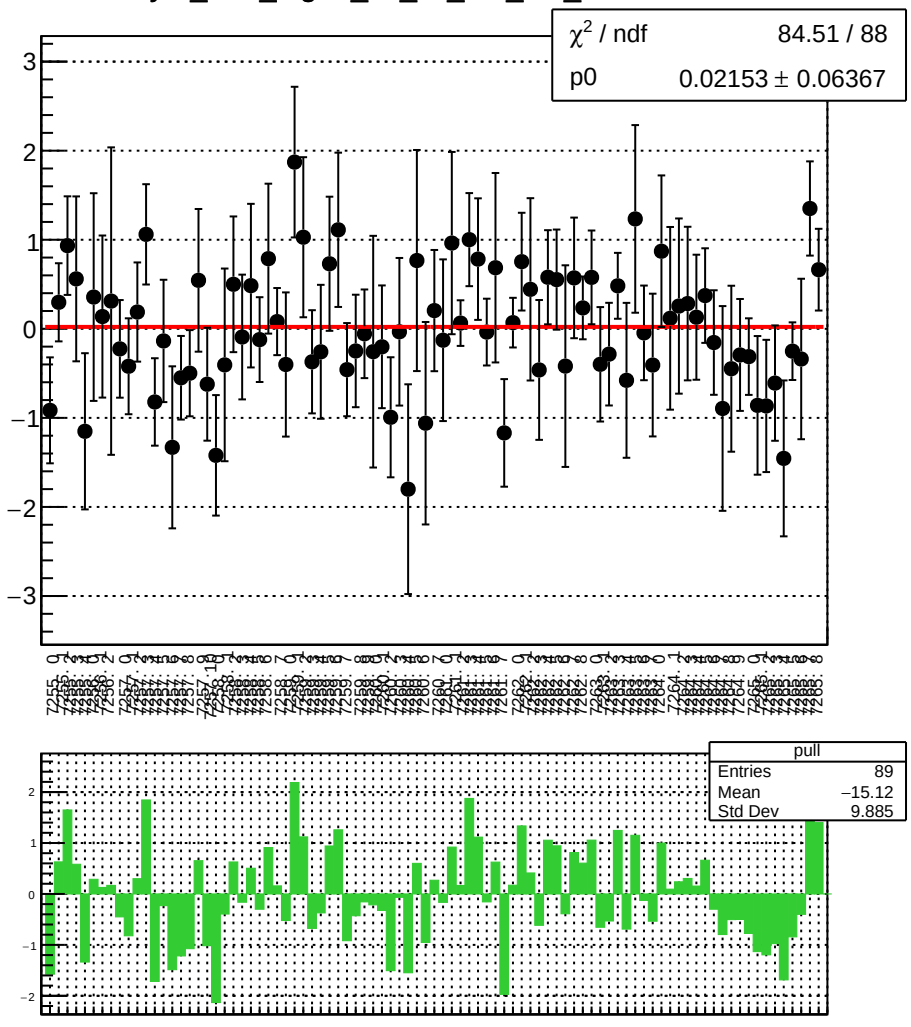

pull1D
Entries 89
Mean −0.02089
Std Dev 0.9742

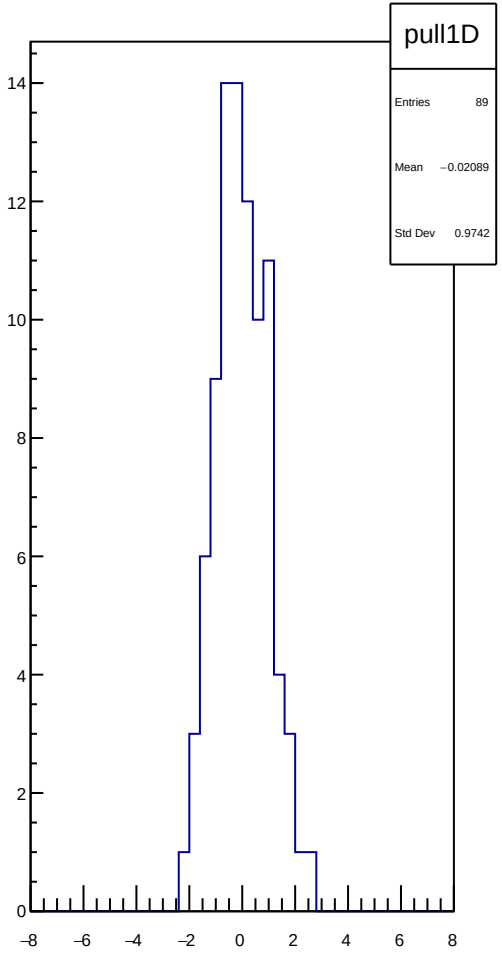

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.12e+05 / 88
p0 54.82 ± 0.04502
180
160
140
120
100
80
60
40
20

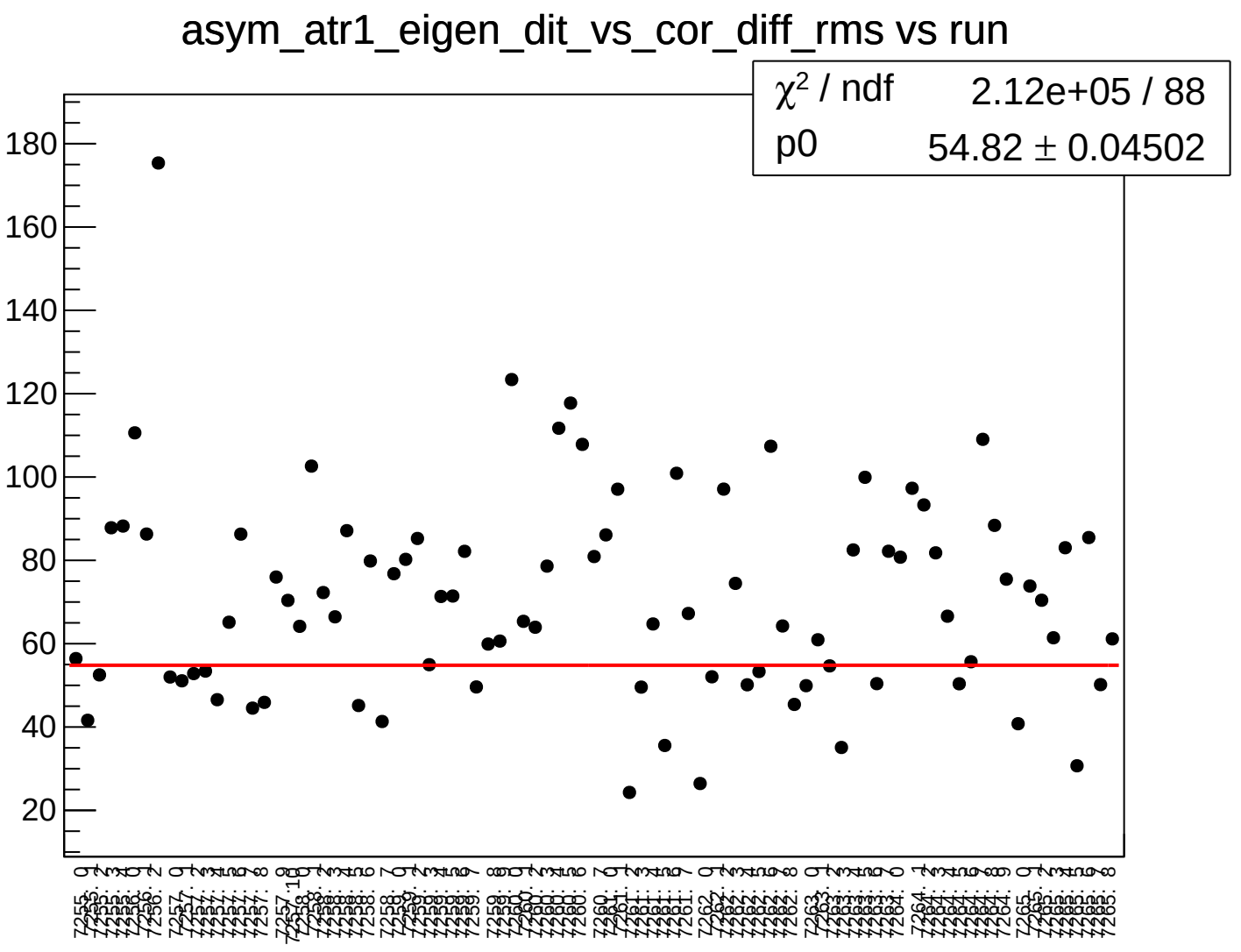

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.82 / 88
p0 −6.119e−07 ± 9.477e−07
pull
Entries 89
Mean 510.9
Std Dev 0

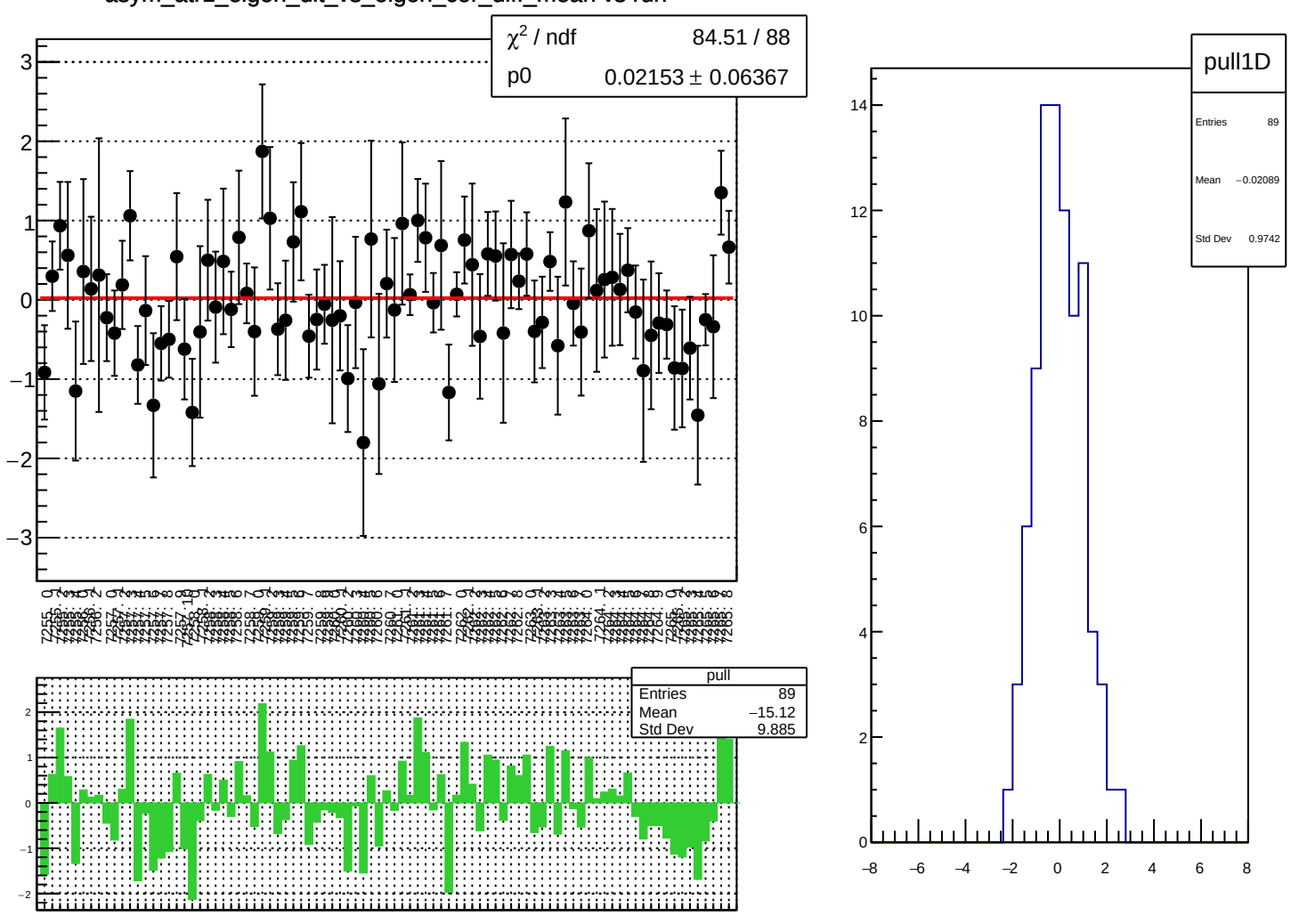

pull1D
Entries 89
Mean 0.008592
Std Dev 0.9877

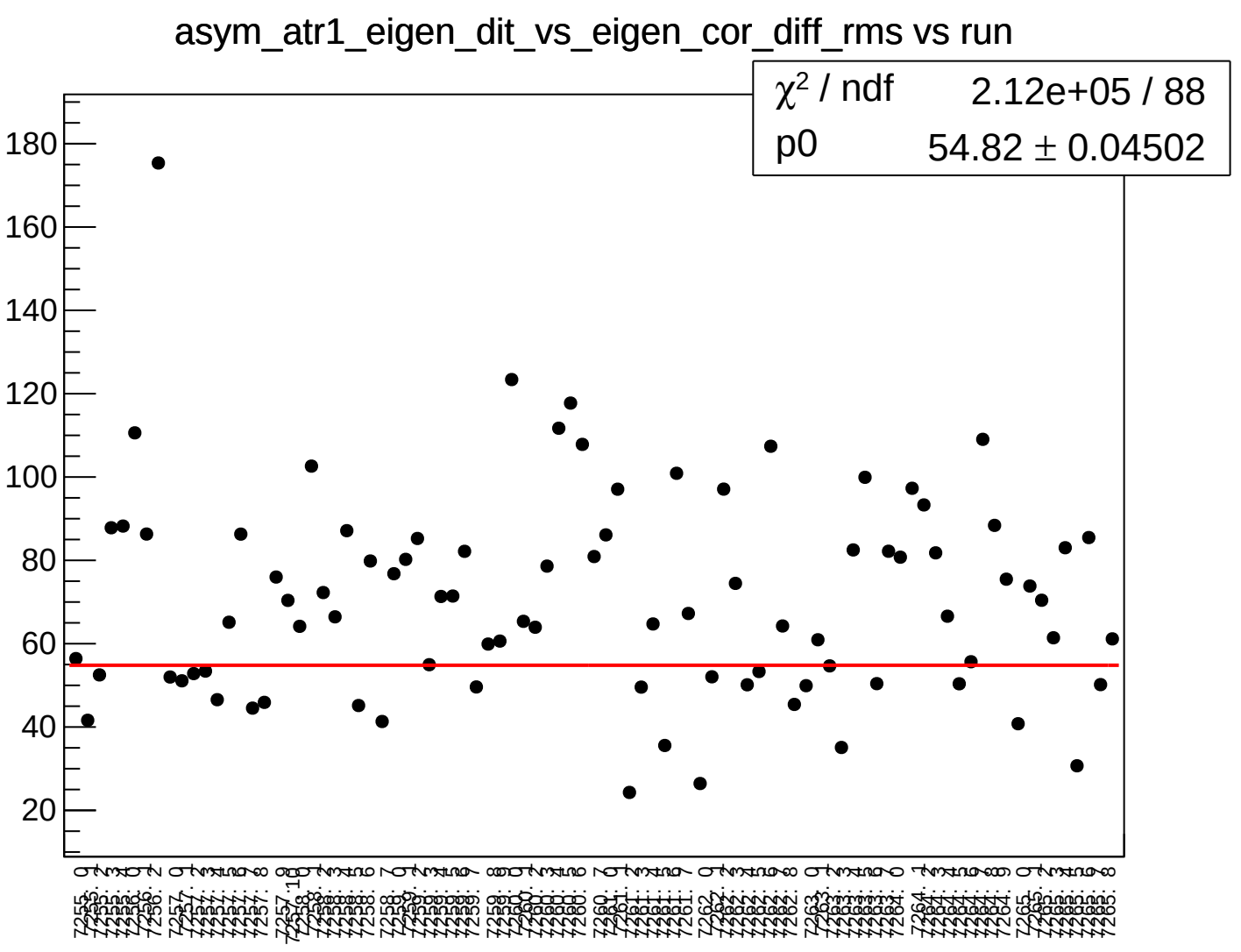

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8546 / 88
p0 0.0008702 ± 6.701e−07
0.00105
0.001
0.00095
0.0009
0.00085
0.0008
0.00075

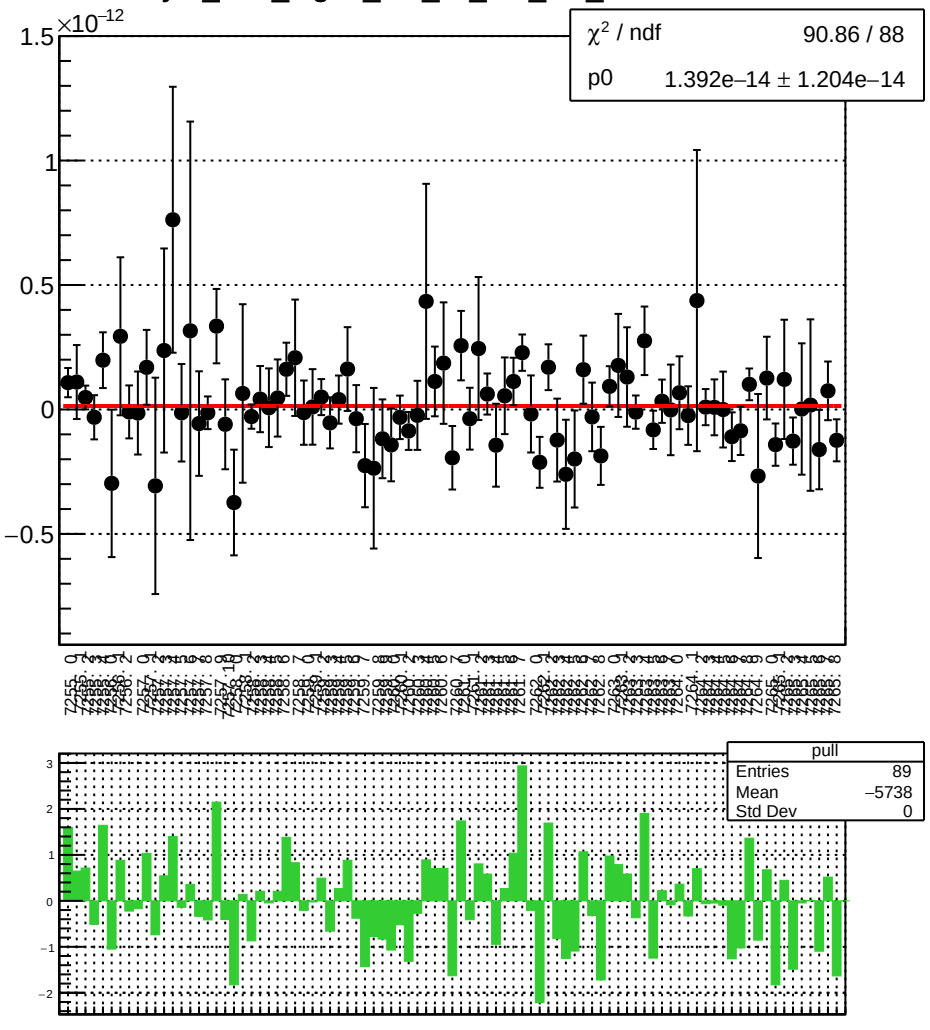

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.51 / 88
p0 0.02153 ± 0.06367
pull
Entries 89
Mean −15.12
Std Dev 9.885

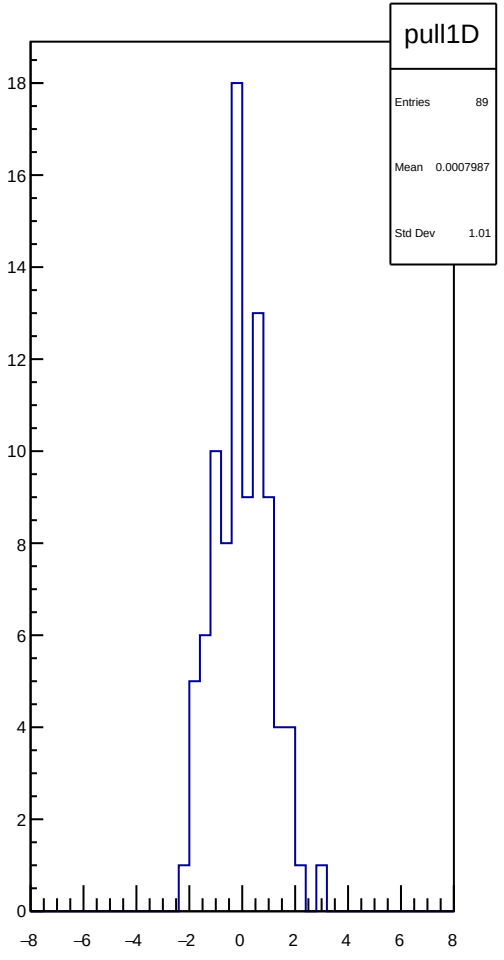

pull1D
Entries 89
Mean −0.02089
Std Dev 0.9742

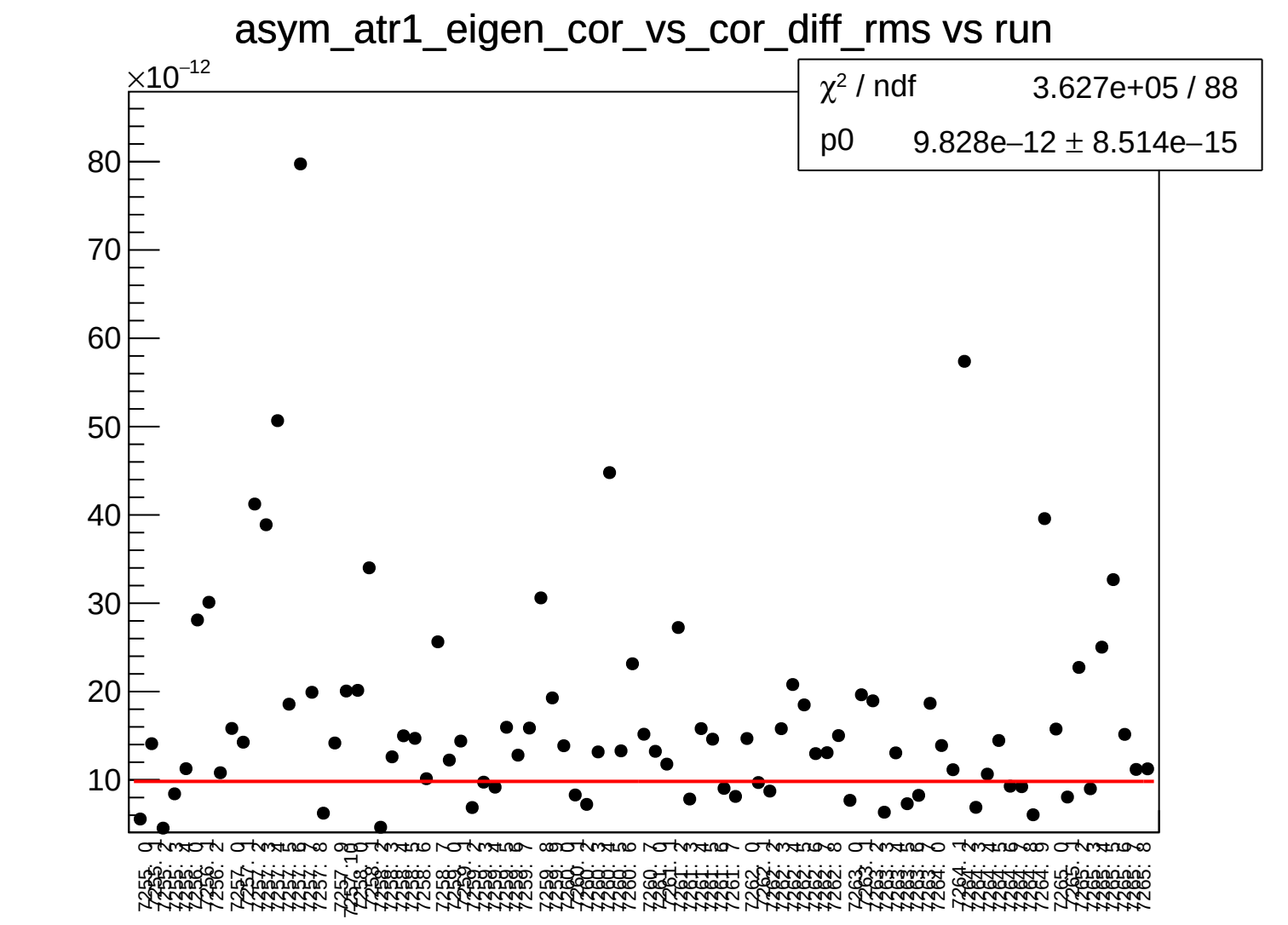

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.12e+05 / 88
p0 54.82 ± 0.04502
180
160
140
120
100
80
60
40
20

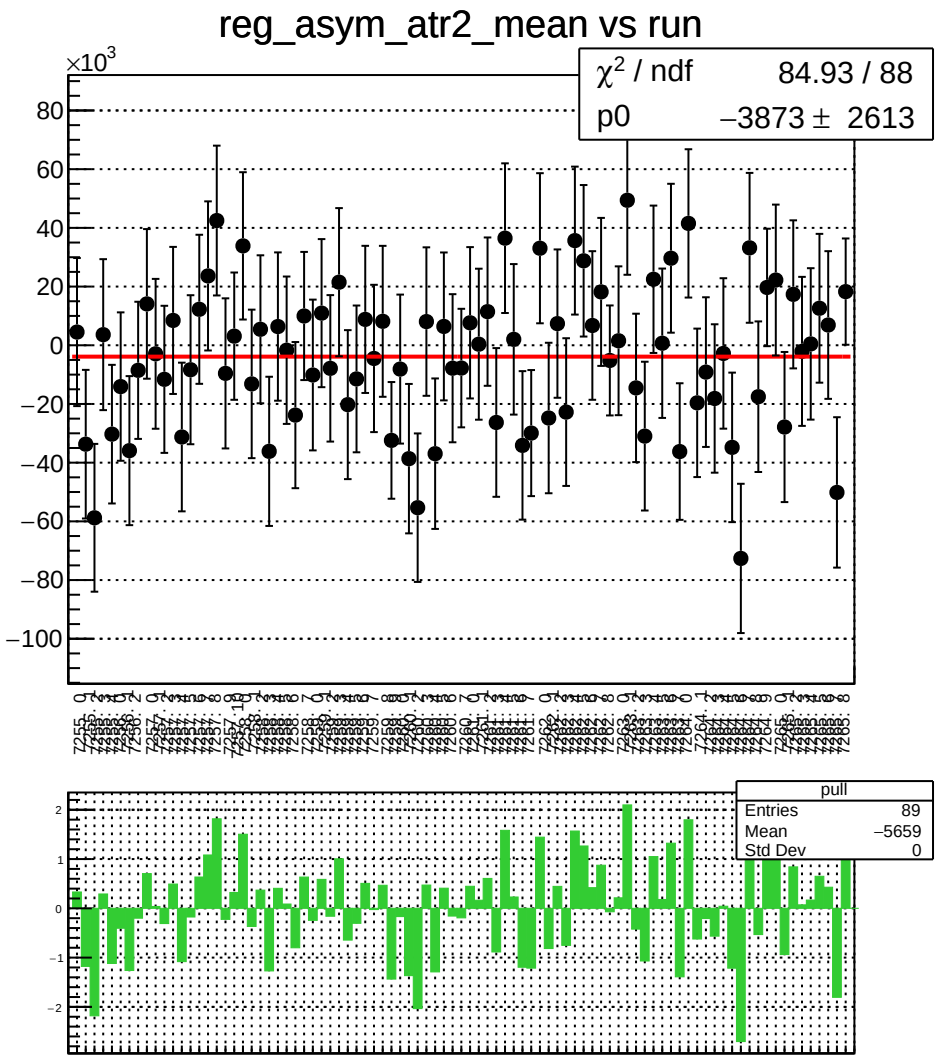

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.51 / 88
p0 0.02153 ± 0.06367
pull
Entries 89
Mean −15.12
Std Dev 9.885
pull1D
Entries 89
Mean −0.02089
Std Dev 0.9742

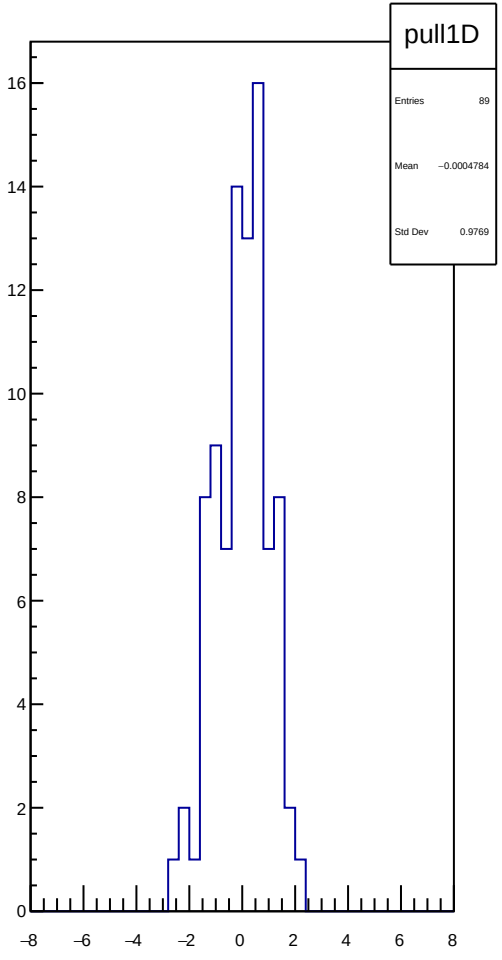

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.12e+05 / 88
p0 54.82 ± 0.04502
180
160
140
120
100
80
60
40
20

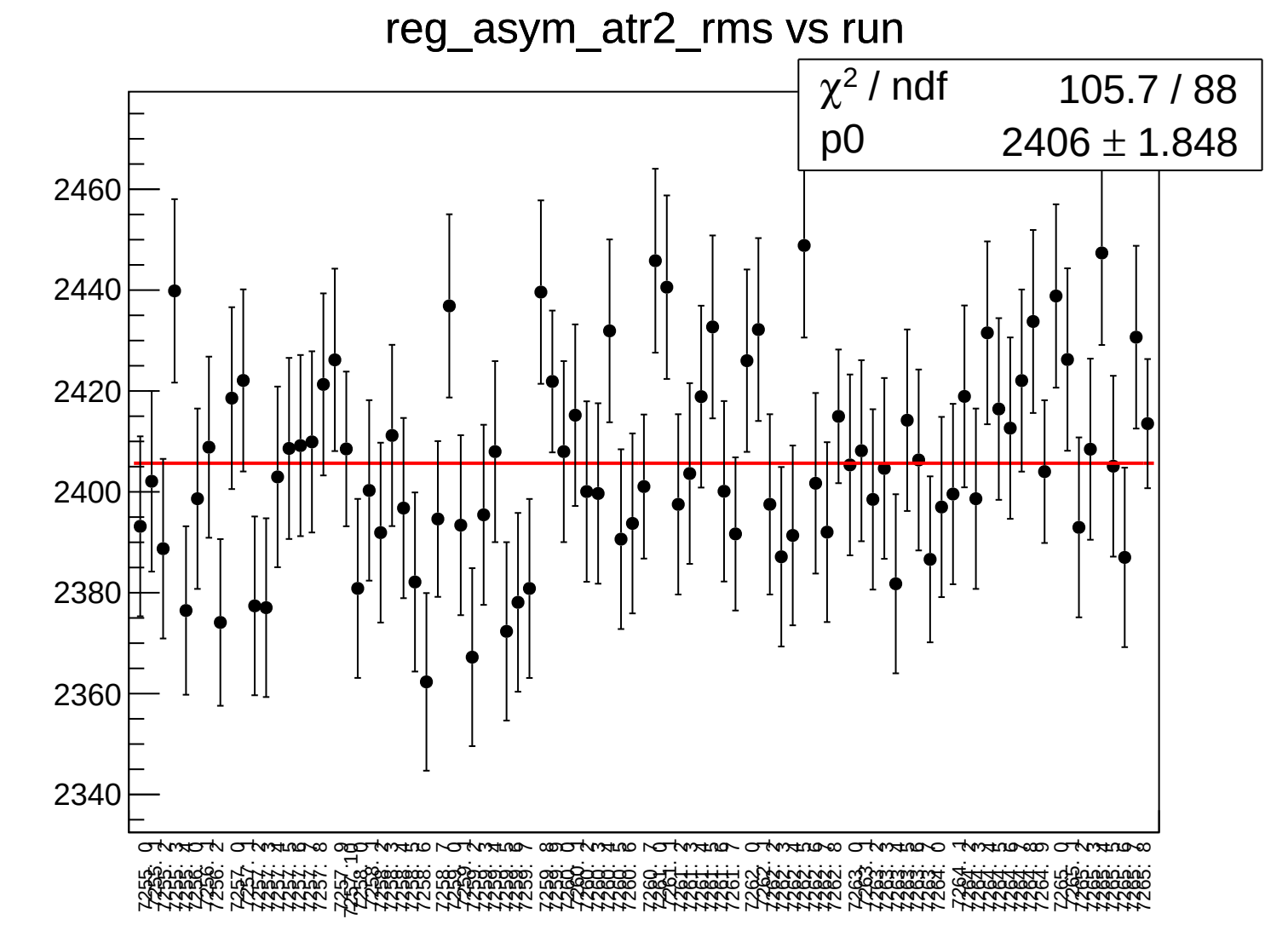

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
χ² / ndf 90.86 / 88
p0 1.392e−14 ± 1.204e−14
×10⁻¹²
pull
Entries 89
Mean −5738
Std Dev 0

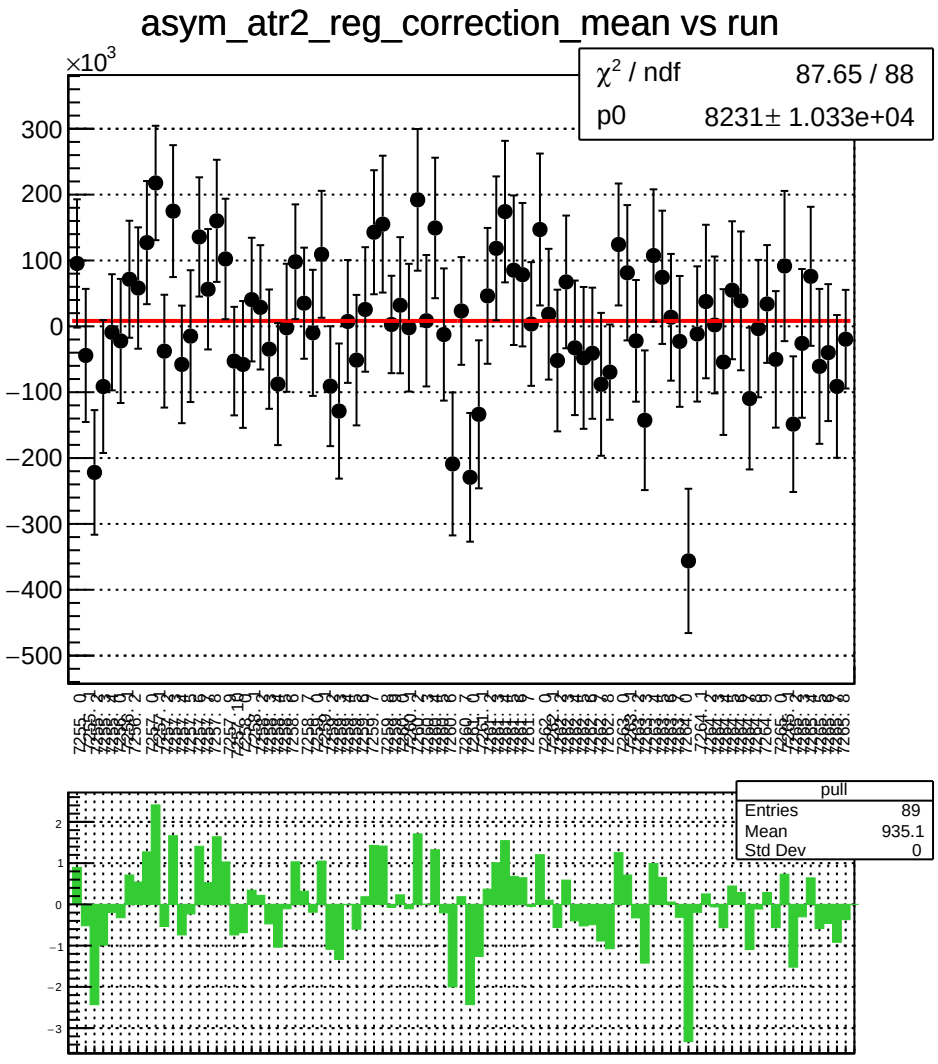

pull1D
Entries 89
Mean 0.0007987
Std Dev 1.01

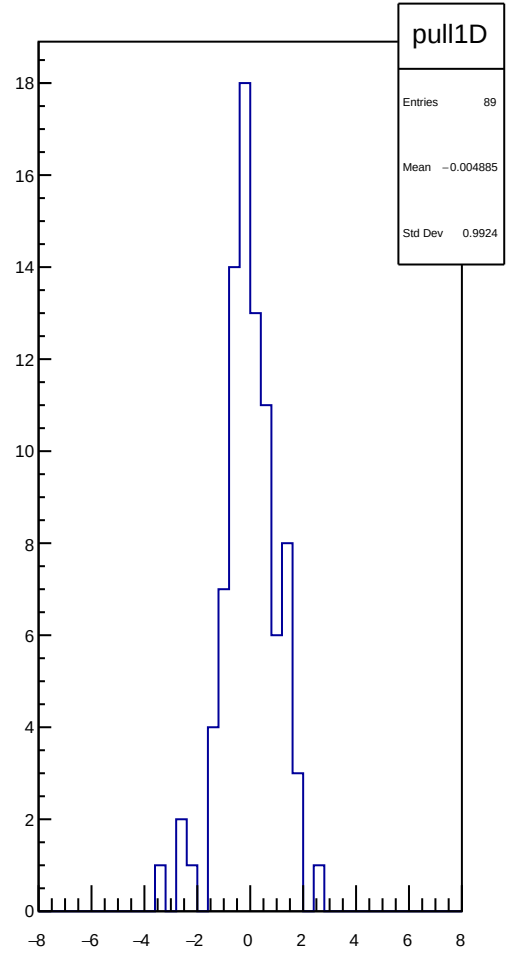

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.627e+05 / 88
p0 9.828e−12 ± 8.514e−15
80
70
60
50
40
30
20
10

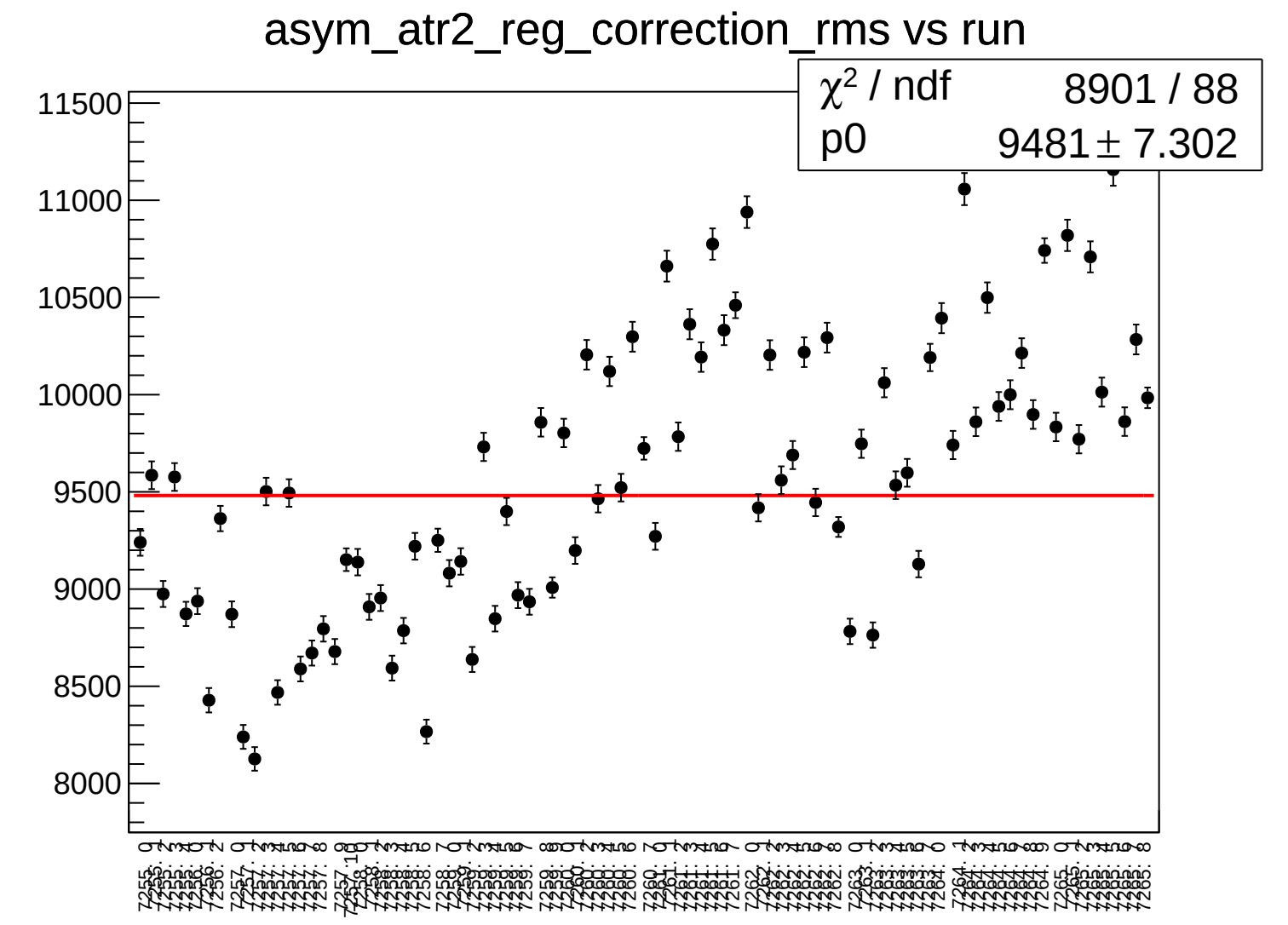

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 84.93 / 88
p0 −3873 ± 2613
pull
Entries 89
Mean −5659
Std Dev 0

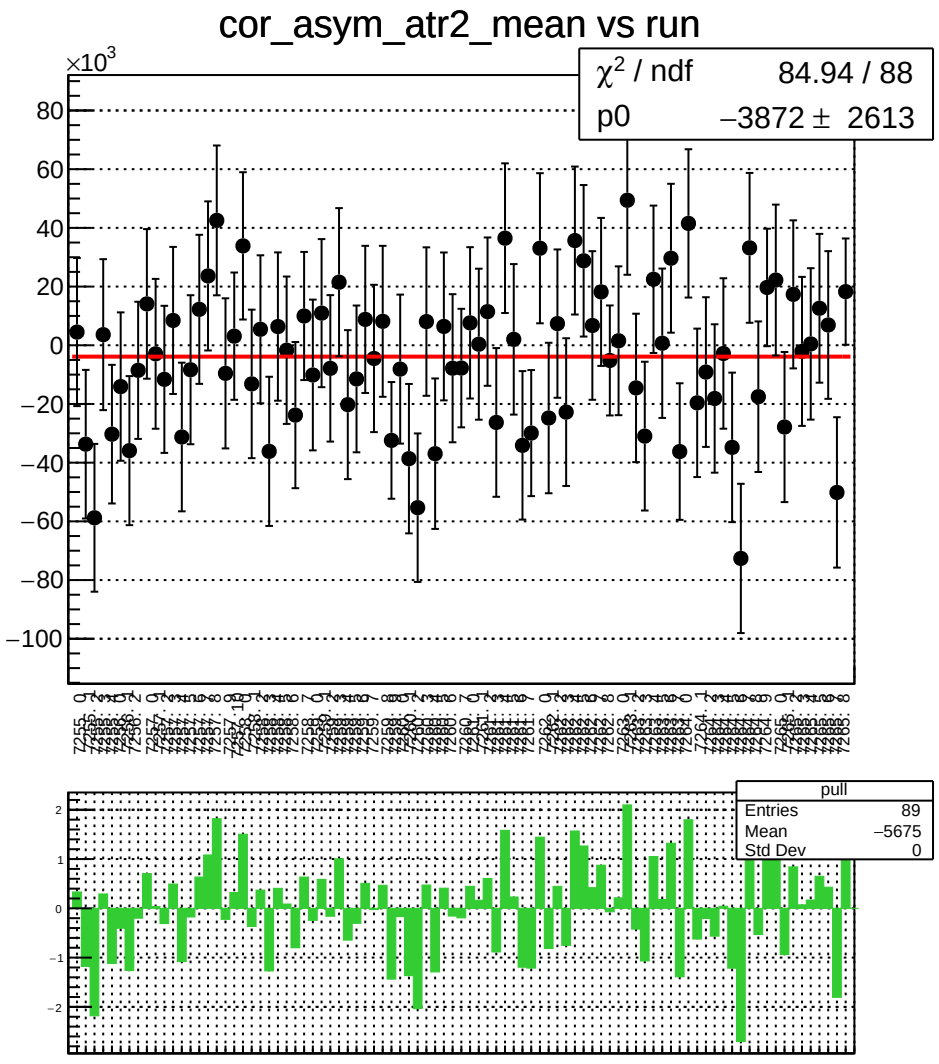

pull1D
Entries 89
Mean −0.0004784
Std Dev 0.9769

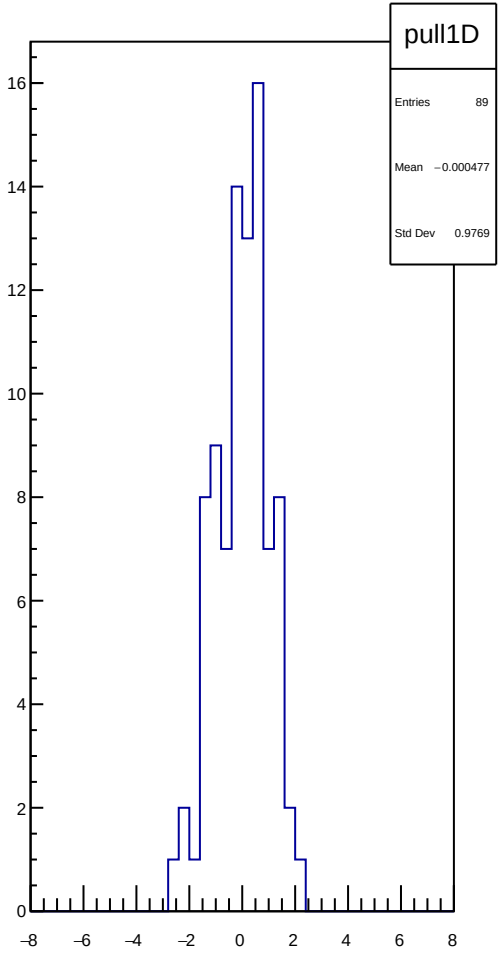

reg_asym_atr2_rms vs run
χ^2 / ndf 105.7 / 88
p0 2406 ± 1.848
2460
2440
2420
2400
2380
2360
2340

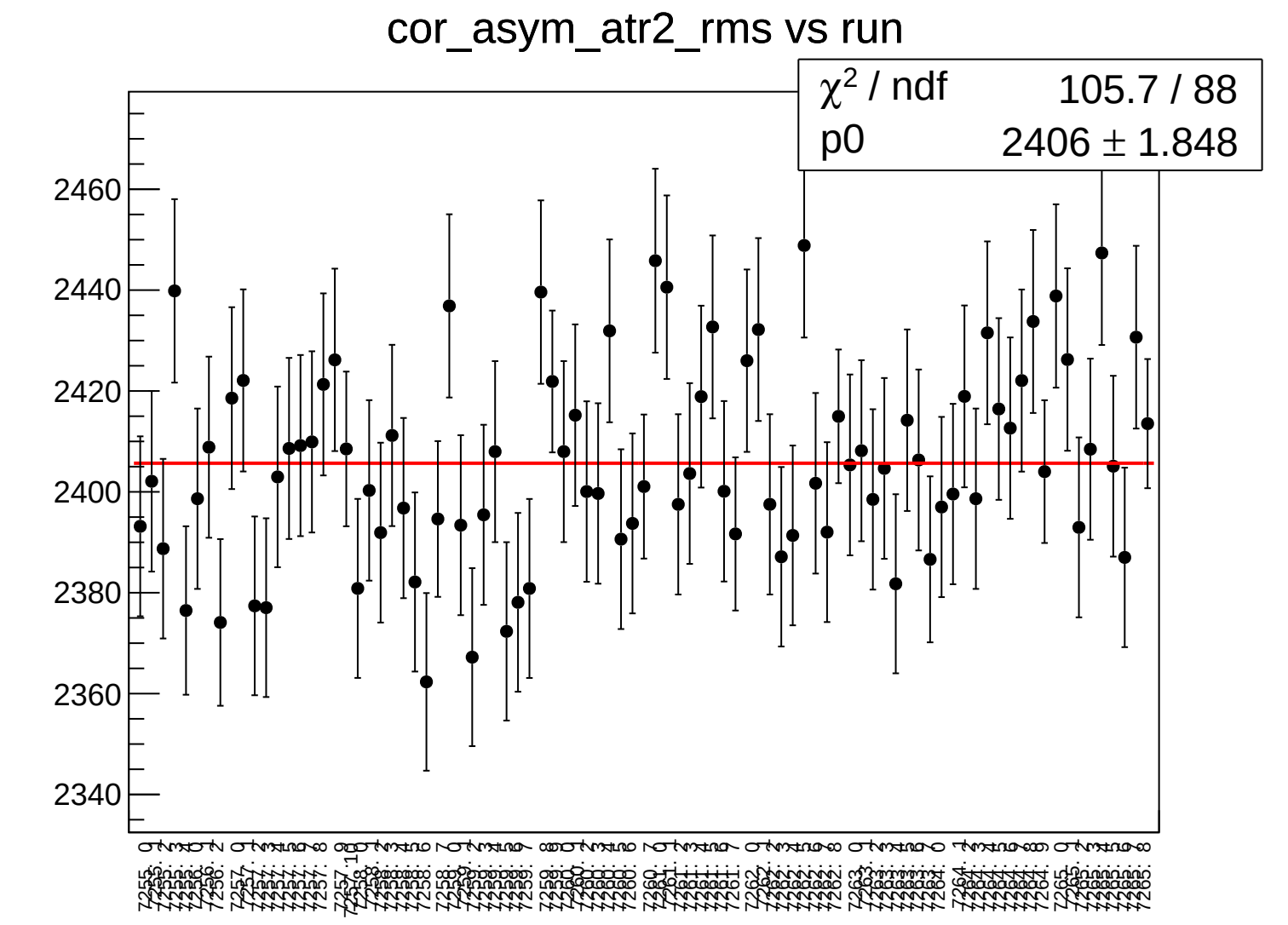

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 87.65 / 88
p0 8231± 1.033e+04
pull
Entries 89
Mean 935.1
Std Dev 0

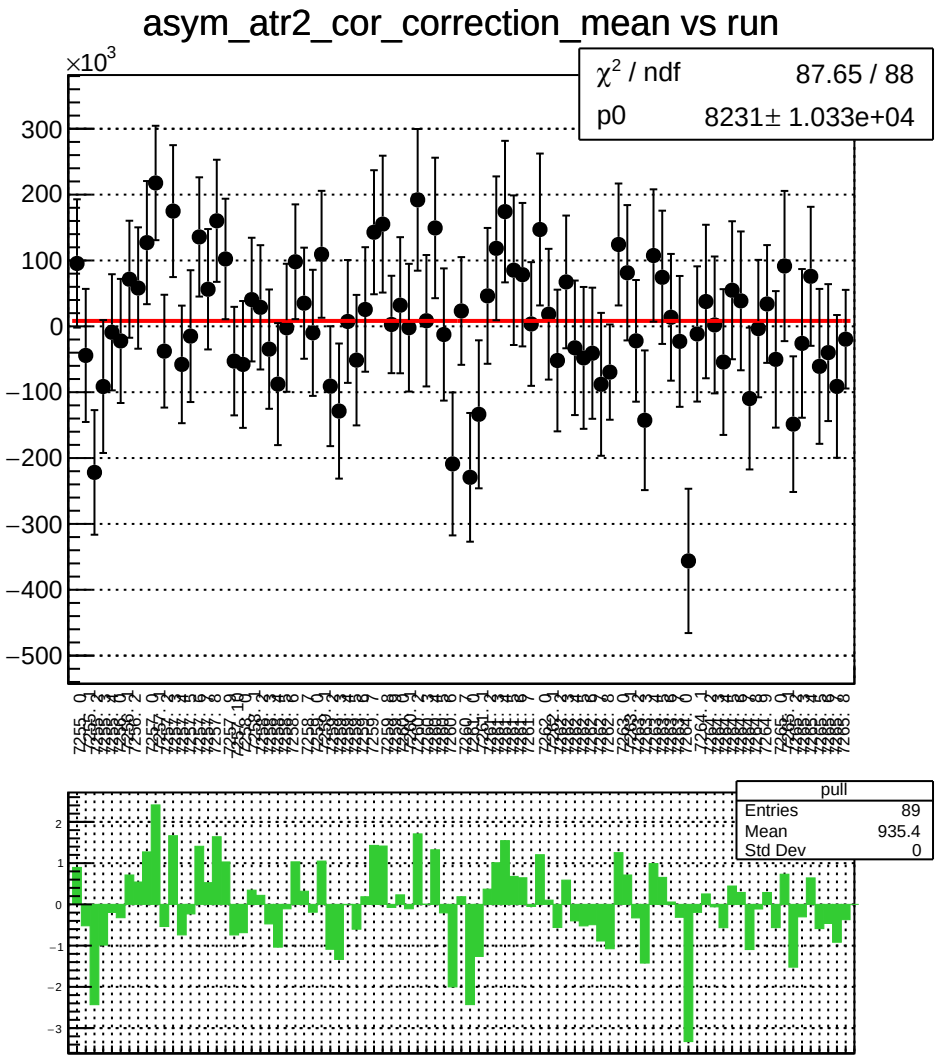

pull1D
Entries 89
Mean −0.004885
Std Dev 0.9924

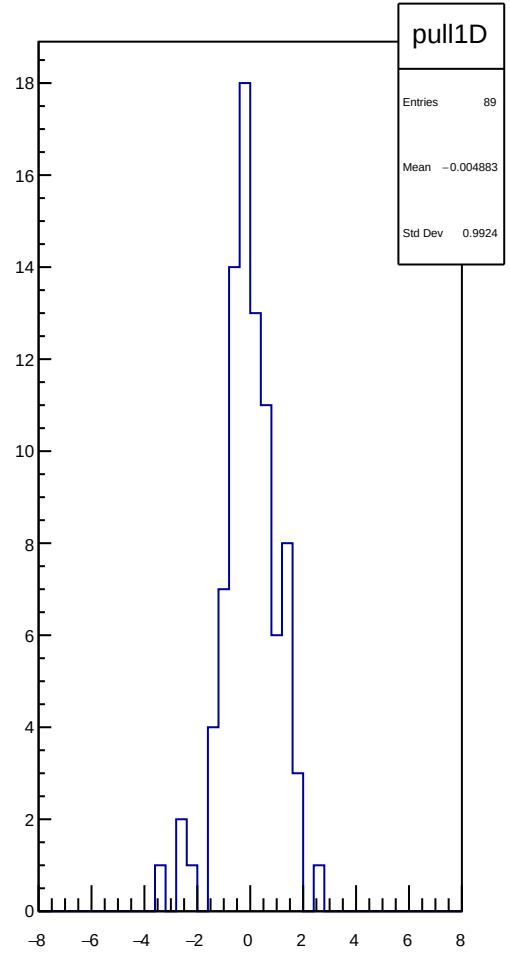

asym_atr2_reg_correction_rms vs run
χ² / ndf 8901 / 88
p0 9481 ± 7.302
11500
11000
10500
10000
9500
9000
8500
8000

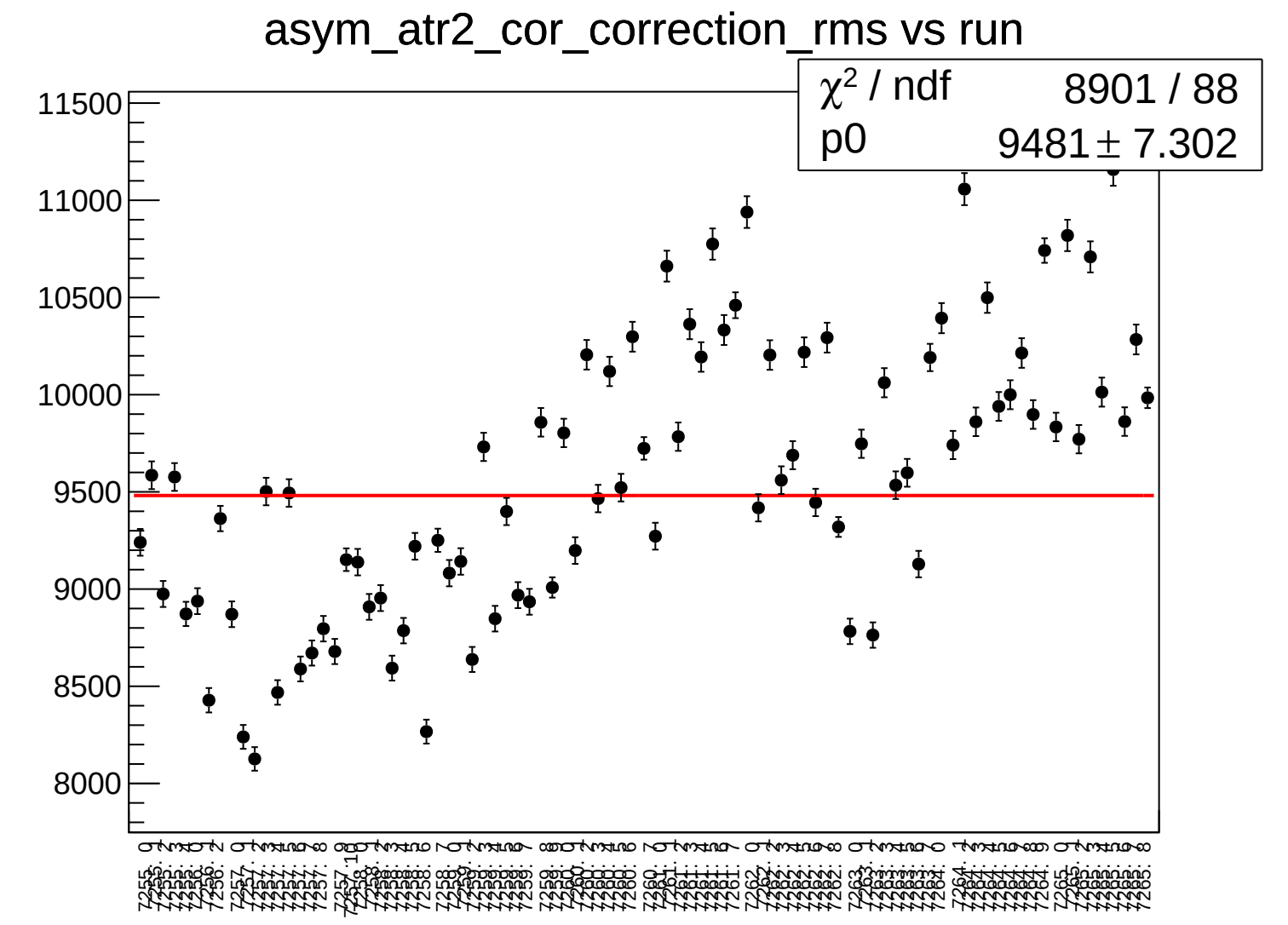

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 84.94 / 88
p0 −3872 ± 2613
pull
Entries 89
Mean −5675
Std Dev 0

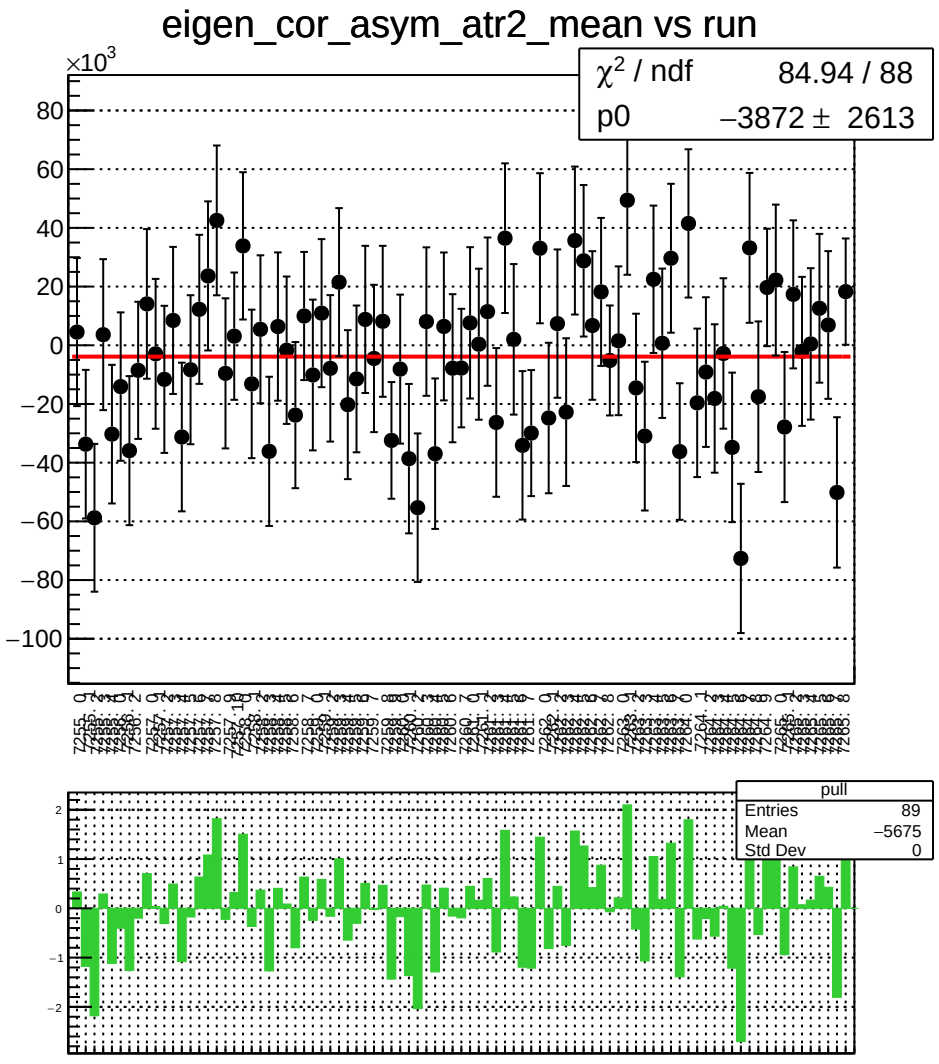

pull1D
Entries 89
Mean −0.000477
Std Dev 0.9769

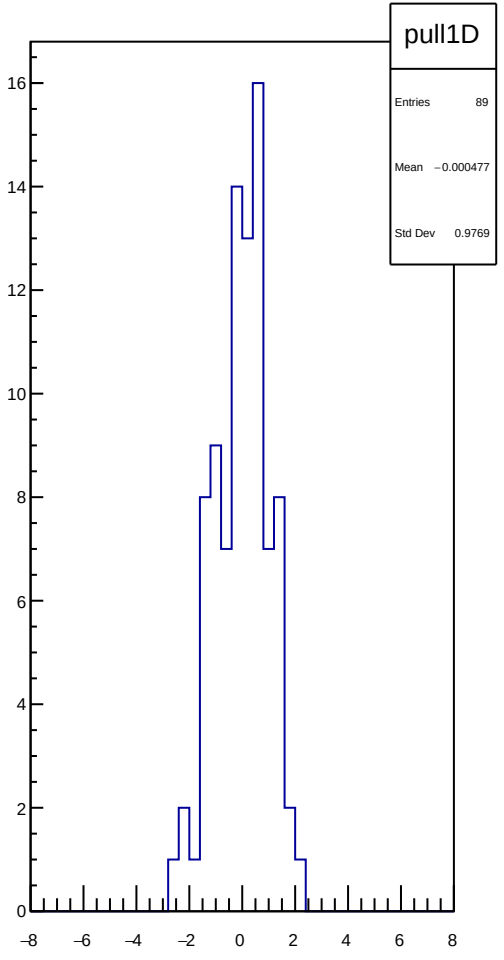

cor_asym_atr2_rms vs run
χ^2 / ndf 105.7 / 88
p0 2406 ± 1.848
2460
2440
2420
2400
2380
2360
2340

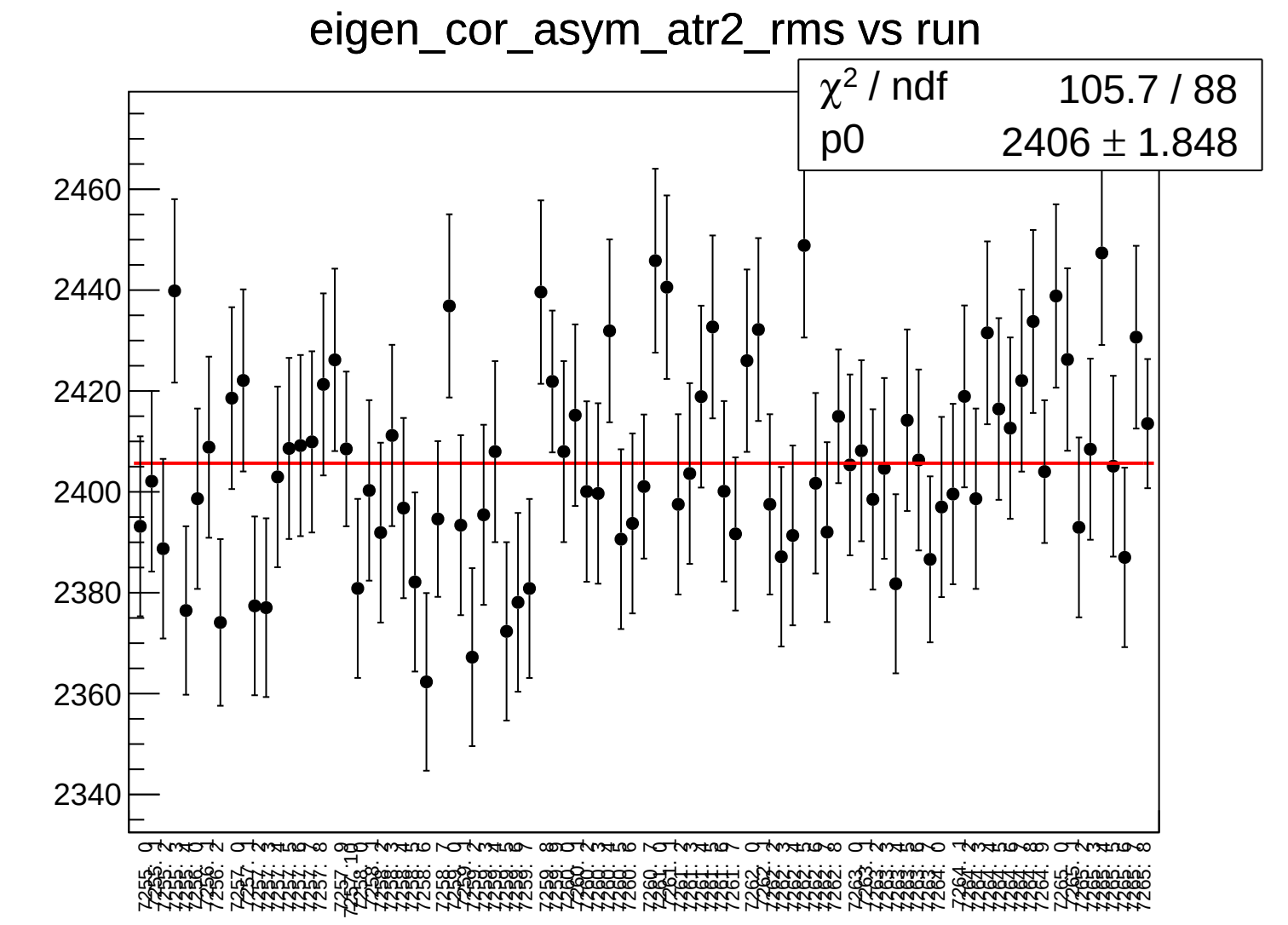

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 87.65 / 88
p0 8231± 1.033e+04
pull
Entries 89
Mean 935.4
Std Dev 0

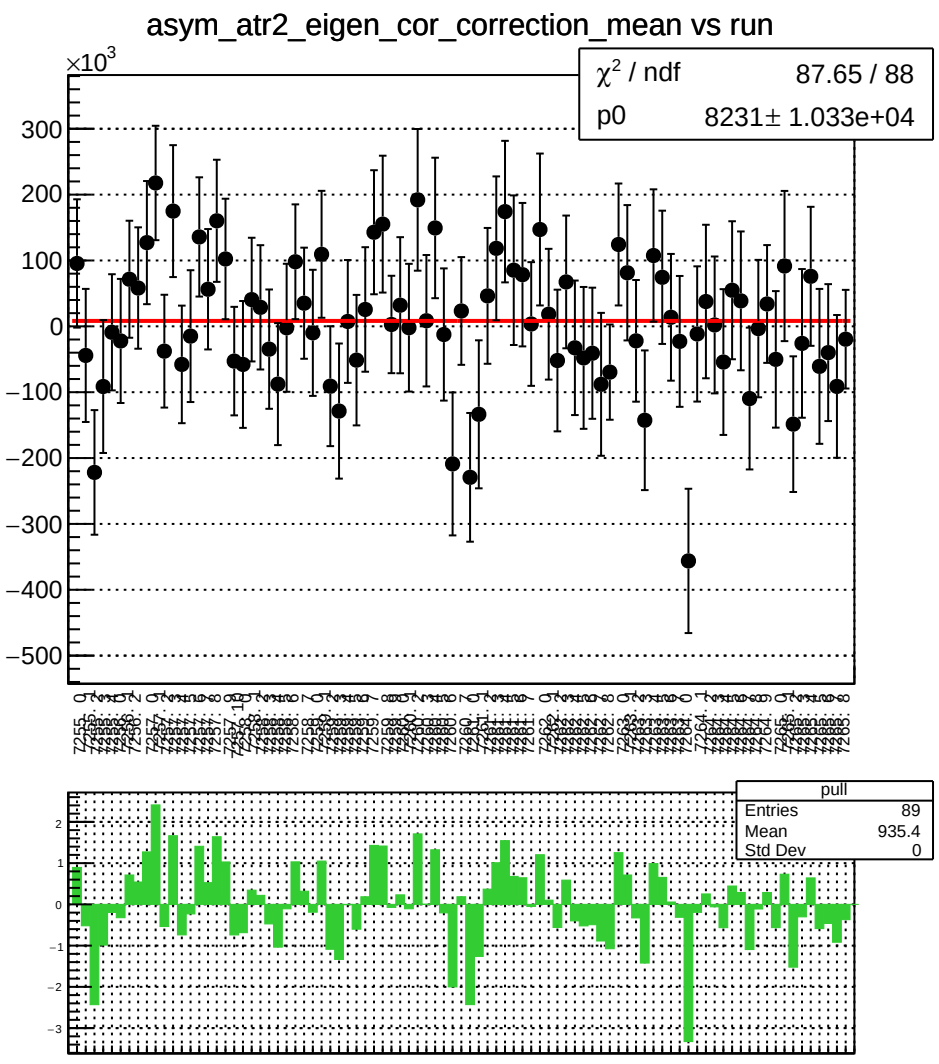

pull1D
Entries 89
Mean −0.004883
Std Dev 0.9924

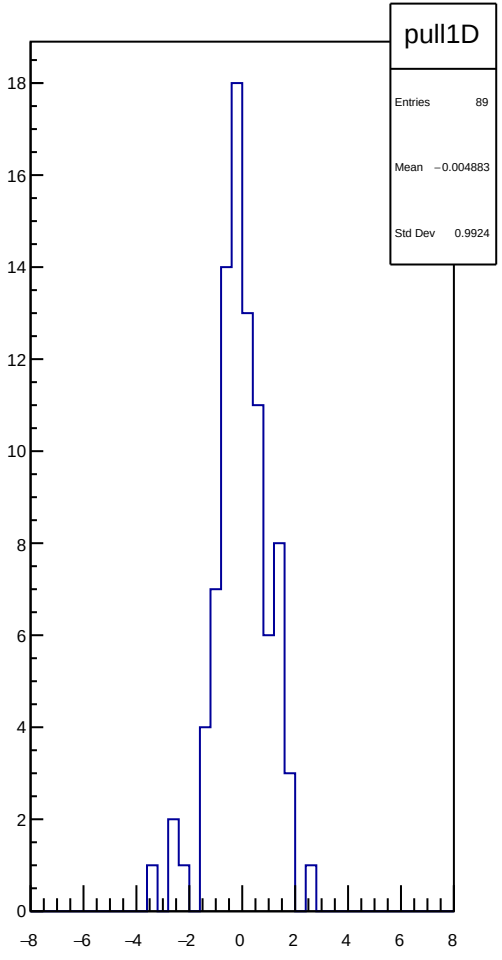

asym_atr2_cor_correction_rms vs run
χ² / ndf 8901 / 88
p0 9481 ± 7.302
11500
11000
10500
10000
9500
9000
8500
8000

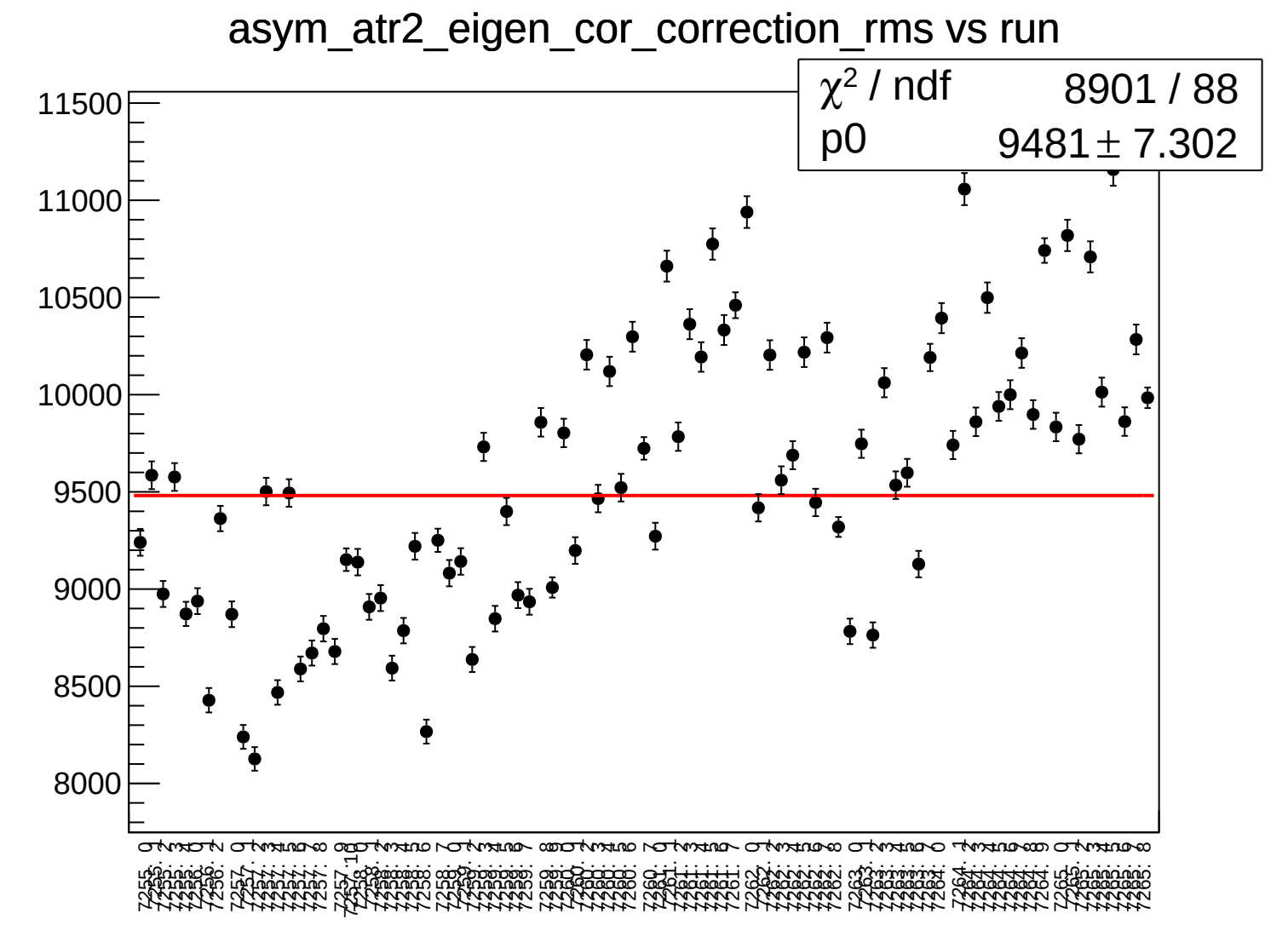

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 84.94 / 88
p0 −3872 ± 2613
pull
Entries 89
Mean −5675
Std Dev 0

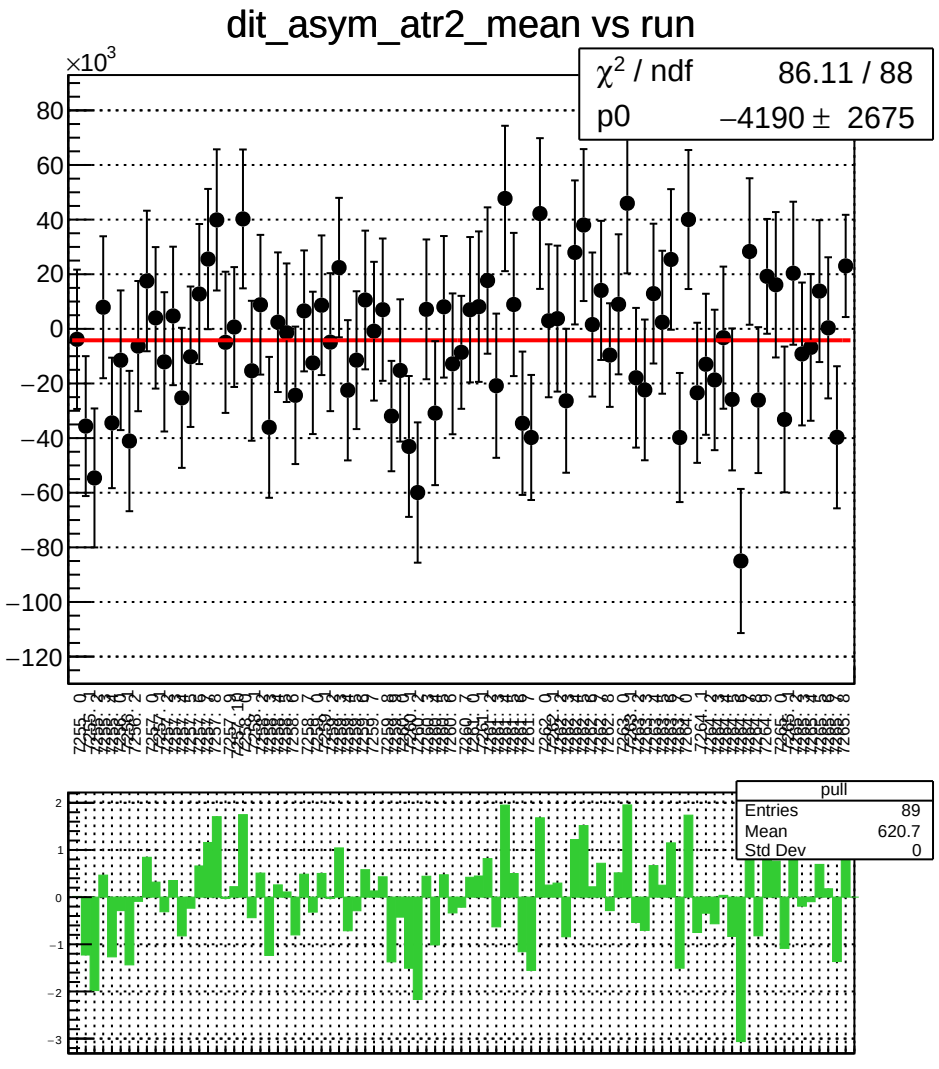

pull1D
Entries 89
Mean −0.000477
Std Dev 0.9769

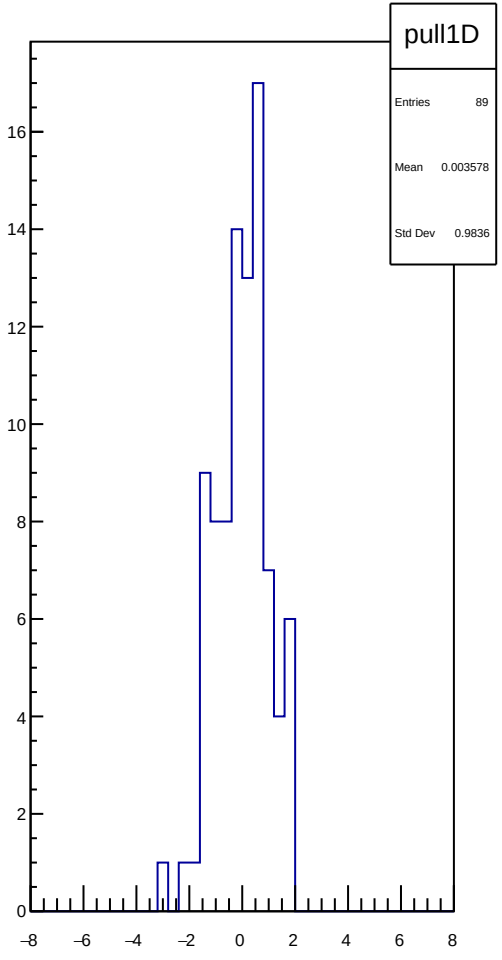

eigen_cor_asym_atr2_rms vs run
χ² / ndf 105.7 / 88
p0 2406 ± 1.848
2460
2440
2420
2400
2380
2360
2340

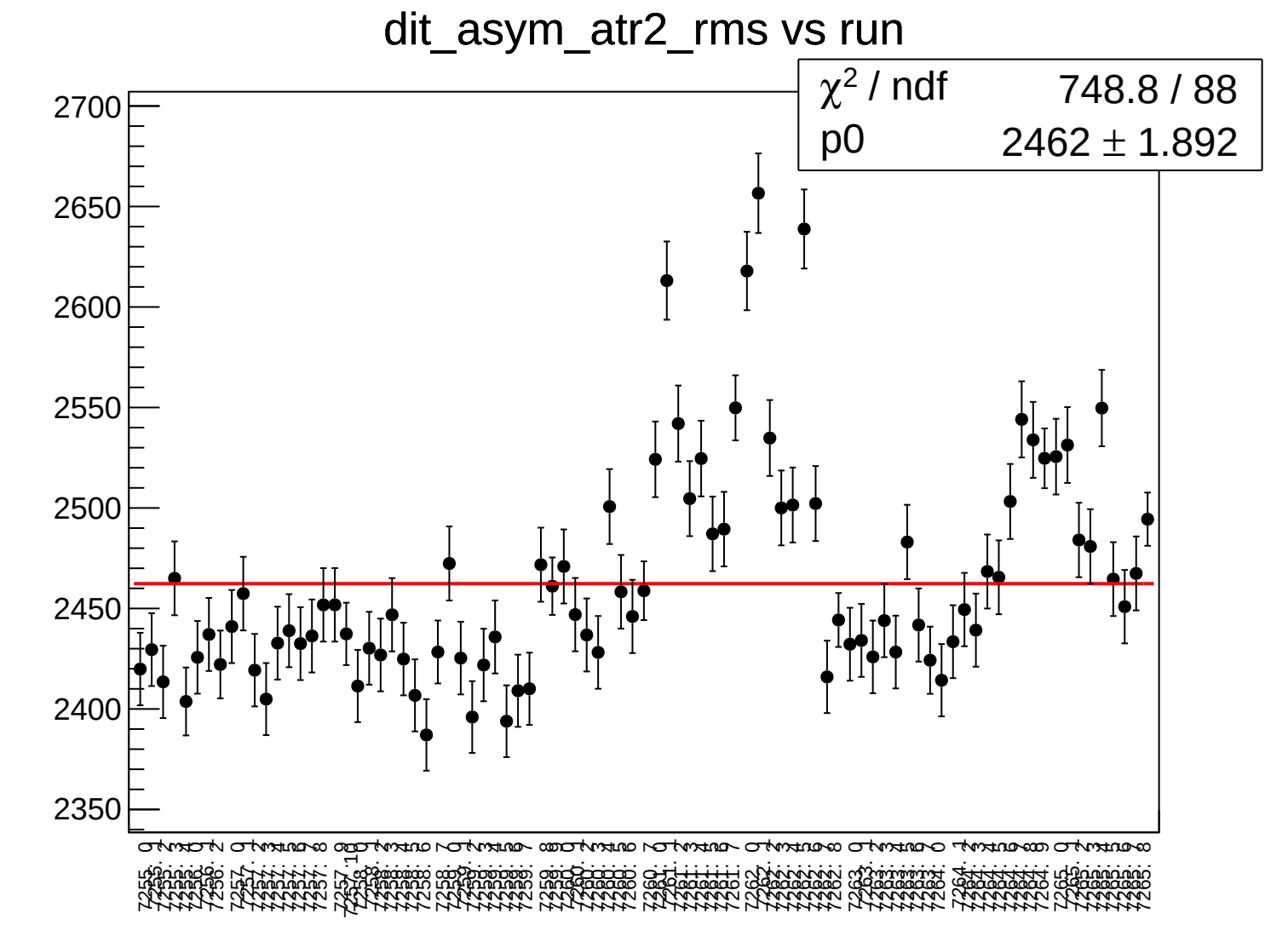

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.65 / 88
p0 8231± 1.033e+04
300
200
100
0
−100
−200
−300
−400
−500
pull
Entries 89
Mean 935.4
Std Dev 0
2
1
0
−1
−2
−3

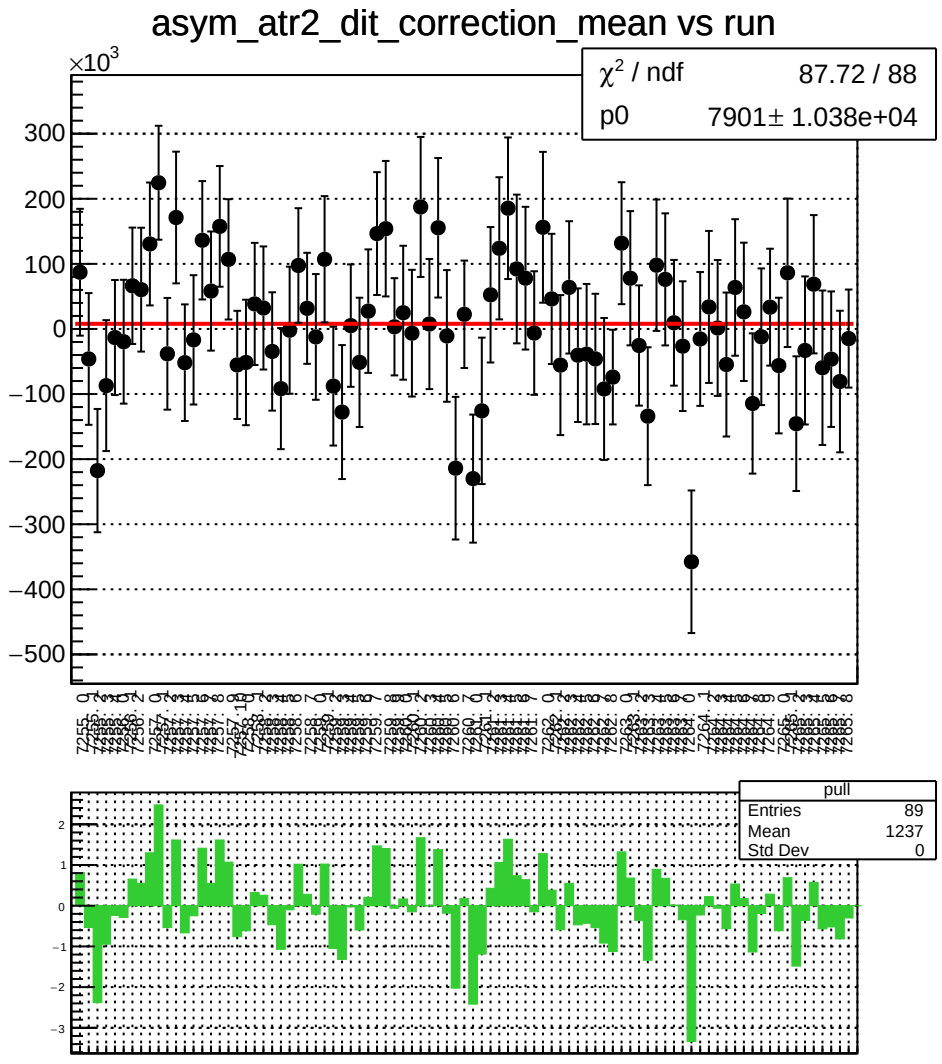

pull1D
Entries 89
Mean −0.004883
Std Dev 0.9924
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

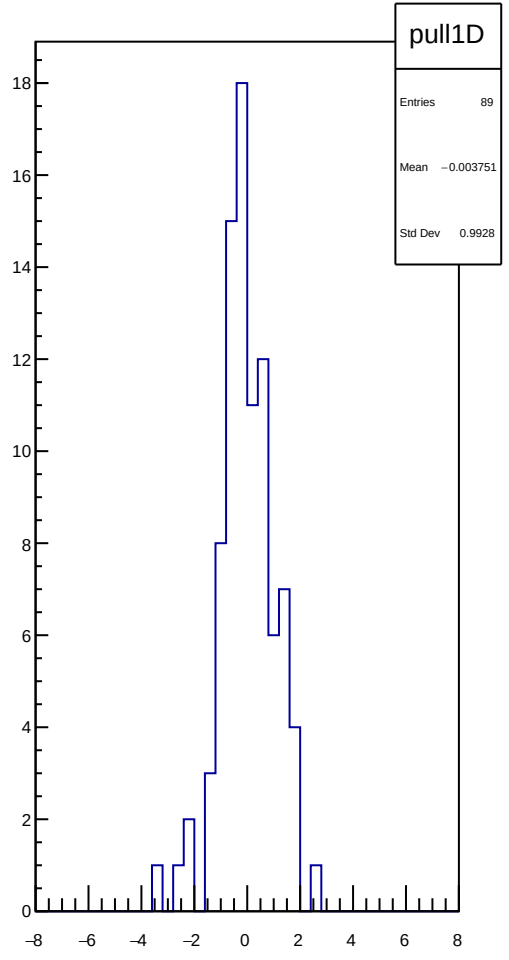

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 8901 / 88
p0 9481 ± 7.302
11500
11000
10500
10000
9500
9000
8500
8000

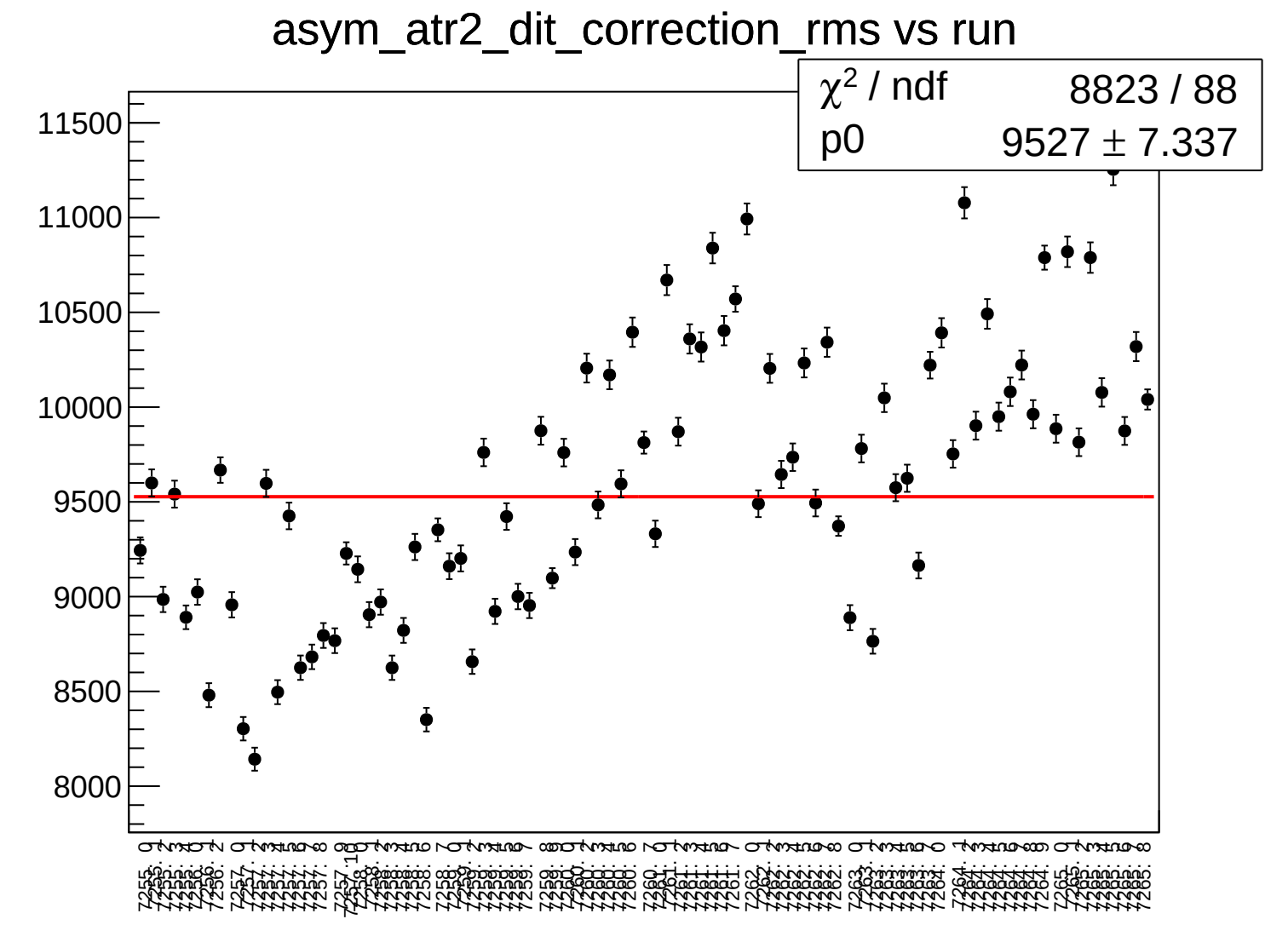

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 86.11 / 88
p0 −4190 ± 2675
pull
Entries 89
Mean 620.7
Std Dev 0

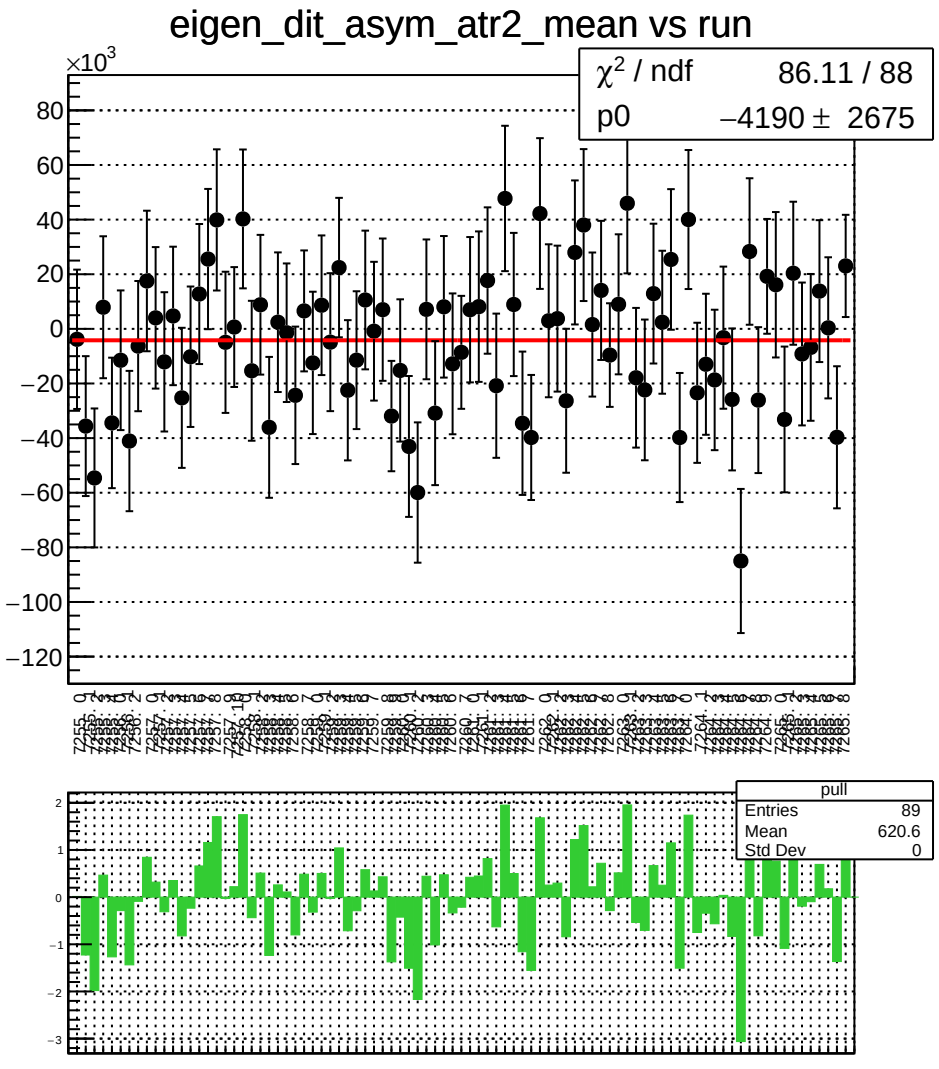

pull1D
Entries 89
Mean 0.003578
Std Dev 0.9836

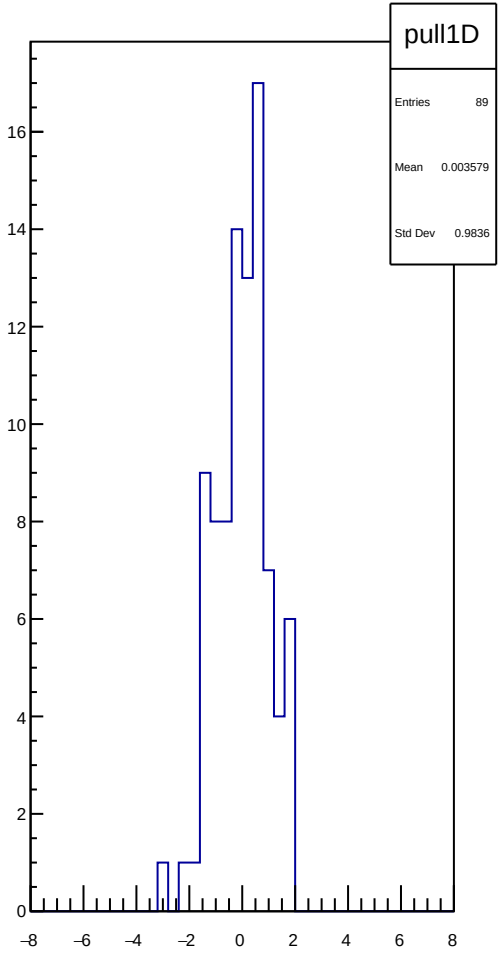

dit_asym_atr2_rms vs run
χ² / ndf 748.8 / 88
p0 2462 ± 1.892
2700
2650
2600
2550
2500
2450
2400
2350

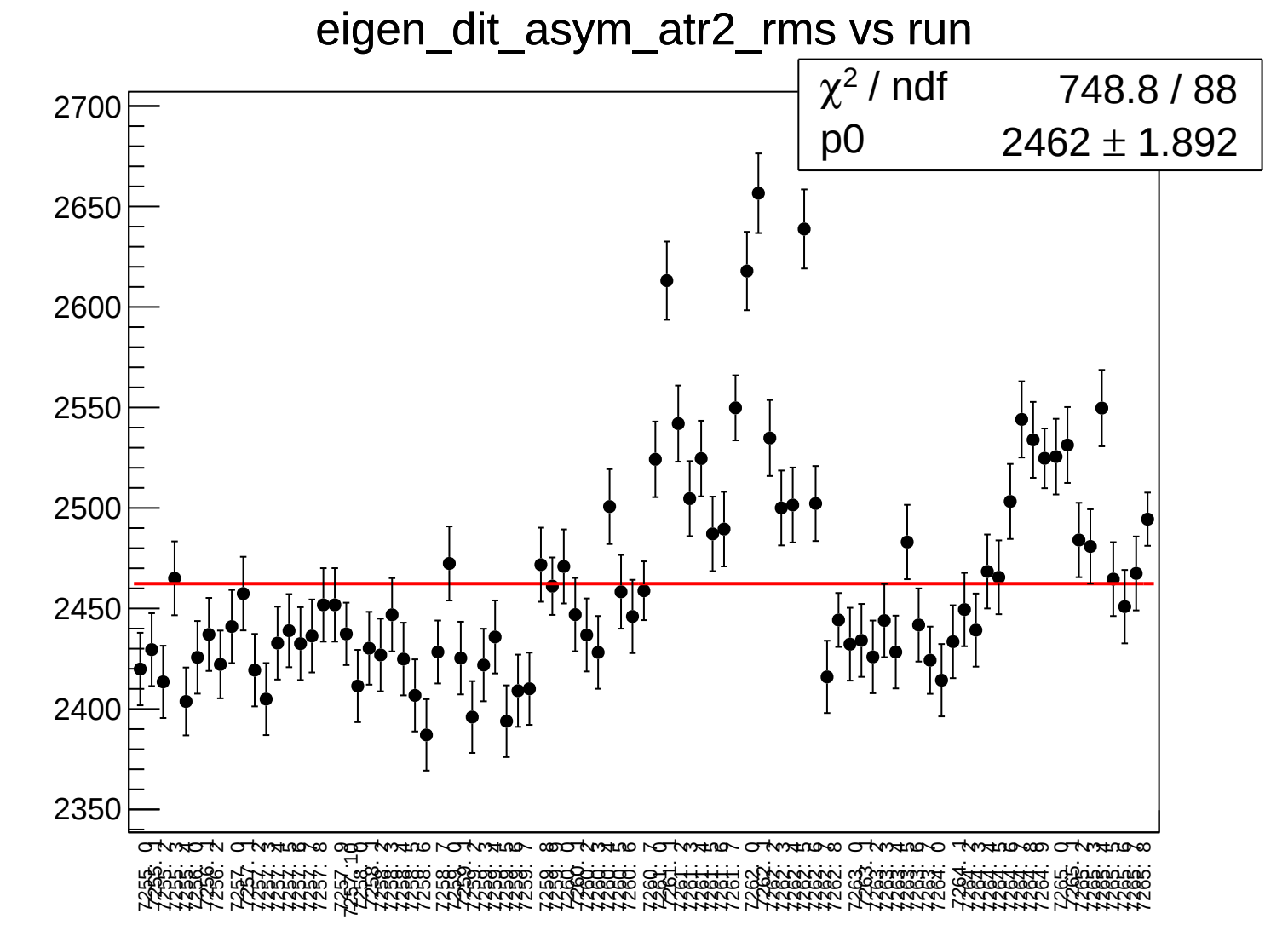

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 87.72 / 88
p0 7901± 1.038e+04
pull
Entries 89
Mean 1237
Std Dev 0

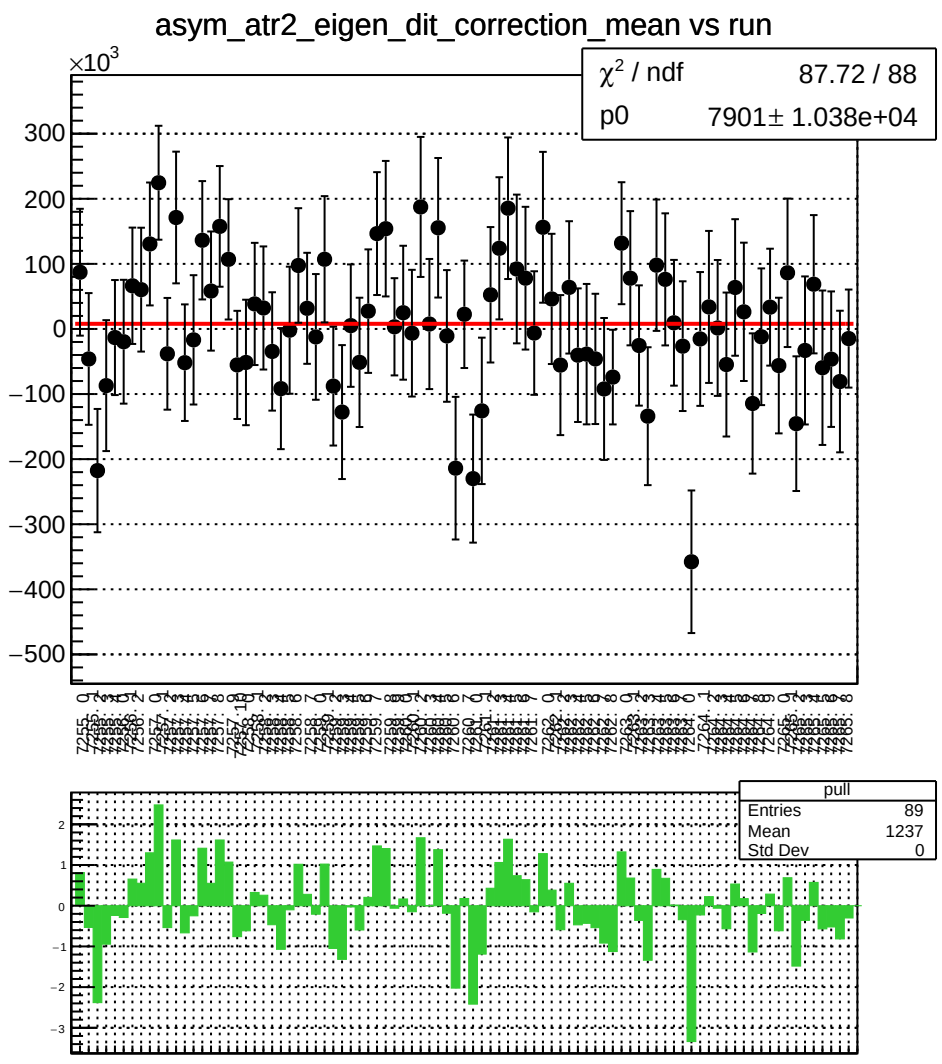

pull1D
Entries 89
Mean −0.003751
Std Dev 0.9928

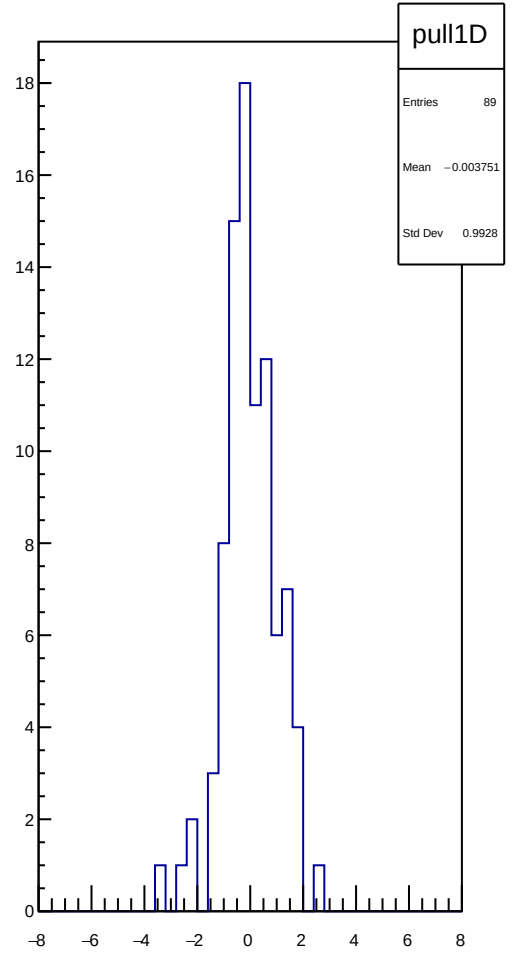

asym_atr2_dit_correction_rms vs run
χ² / ndf 8823 / 88
p0 9527 ± 7.337
11500
11000
10500
10000
9500
9000
8500
8000

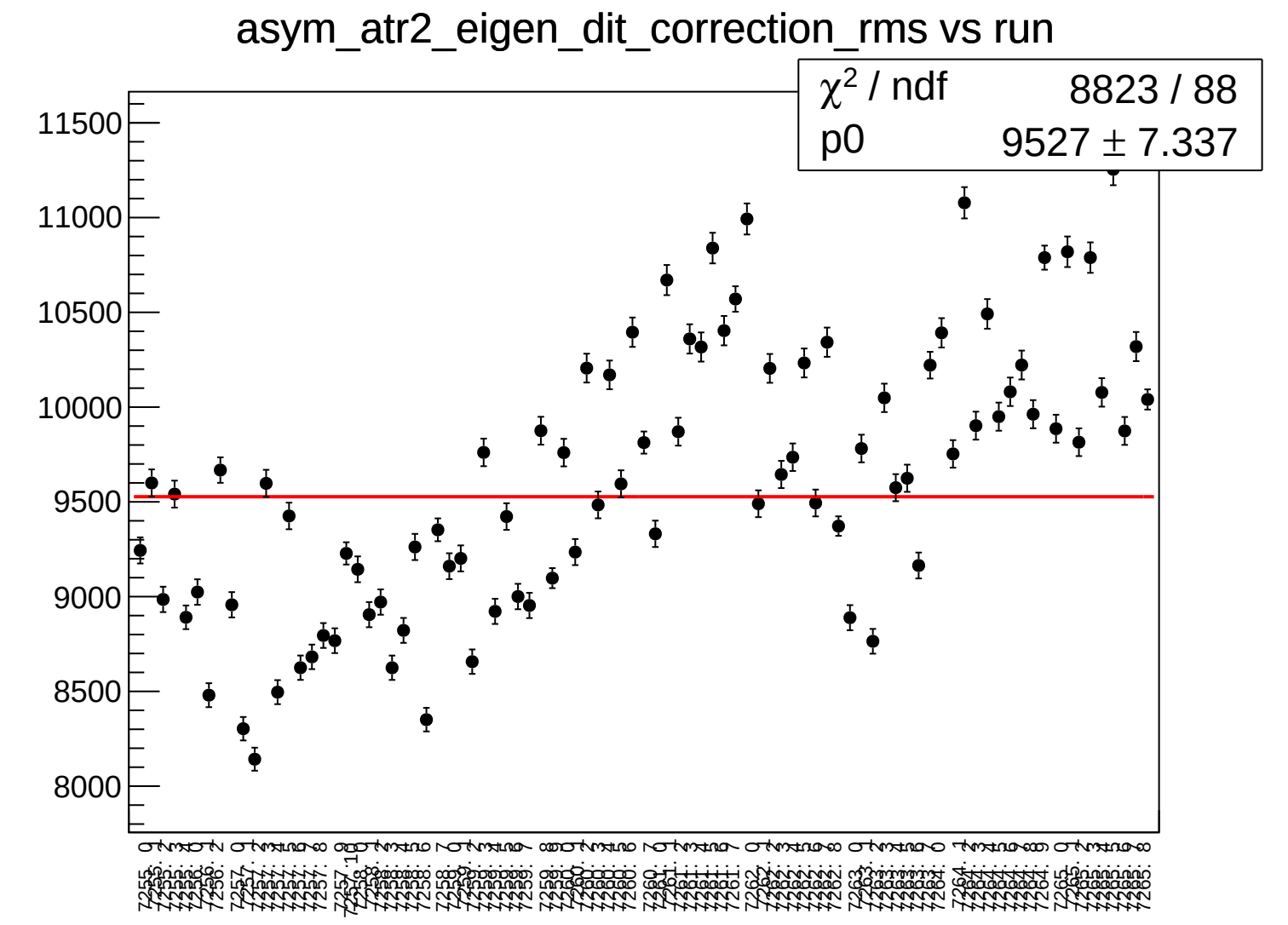

eigen_dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 86.11 / 88
p0 −4190 ± 2675
pull
Entries 89
Mean 620.6
Std Dev 0

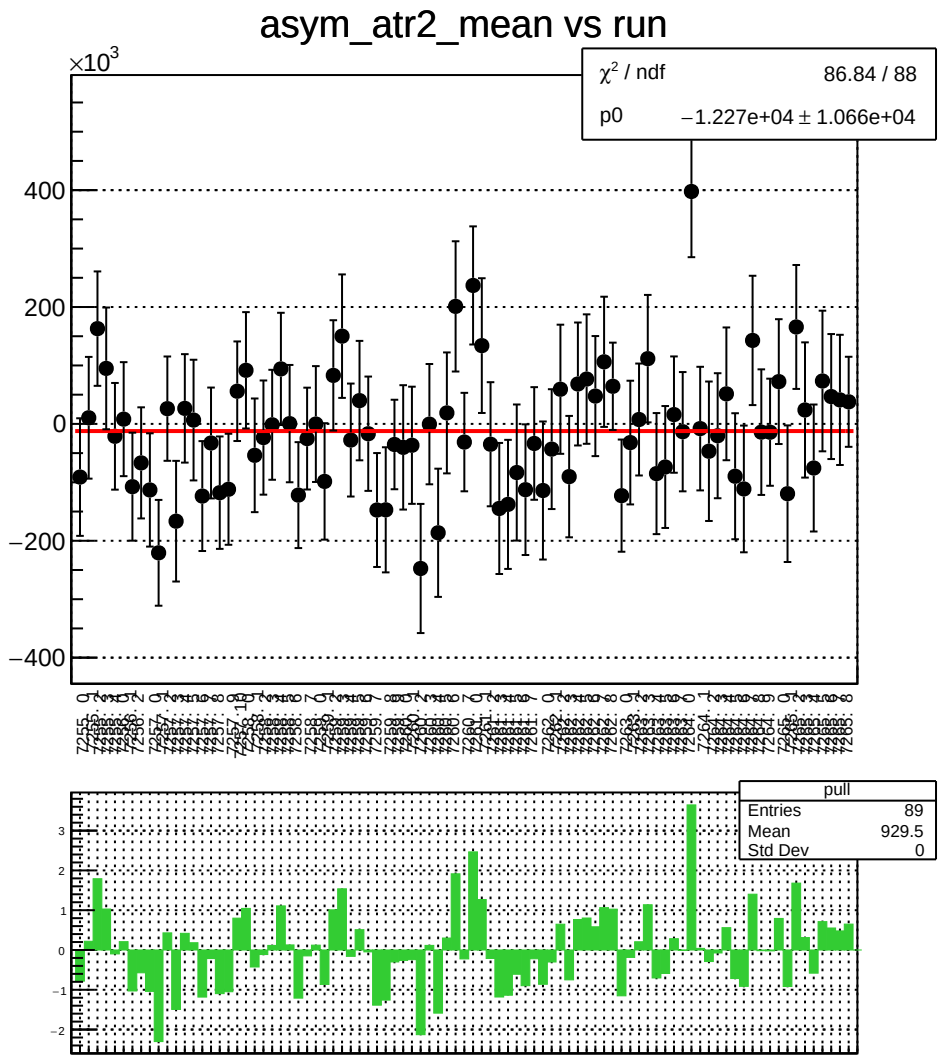

pull1D
Entries 89
Mean 0.003579
Std Dev 0.9836

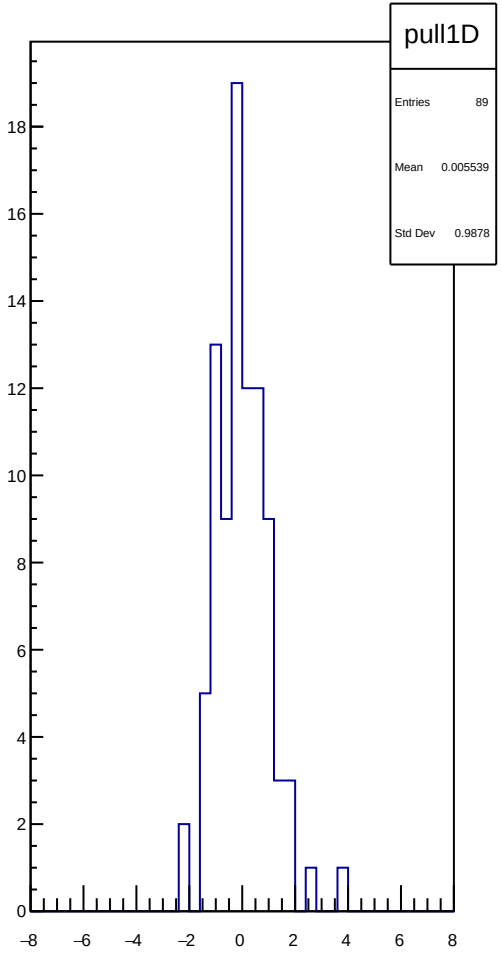

eigen_dit_asym_atr2_rms vs run
χ² / ndf 748.8 / 88
p0 2462 ± 1.892
2700
2650
2600
2550
2500
2450
2400
2350

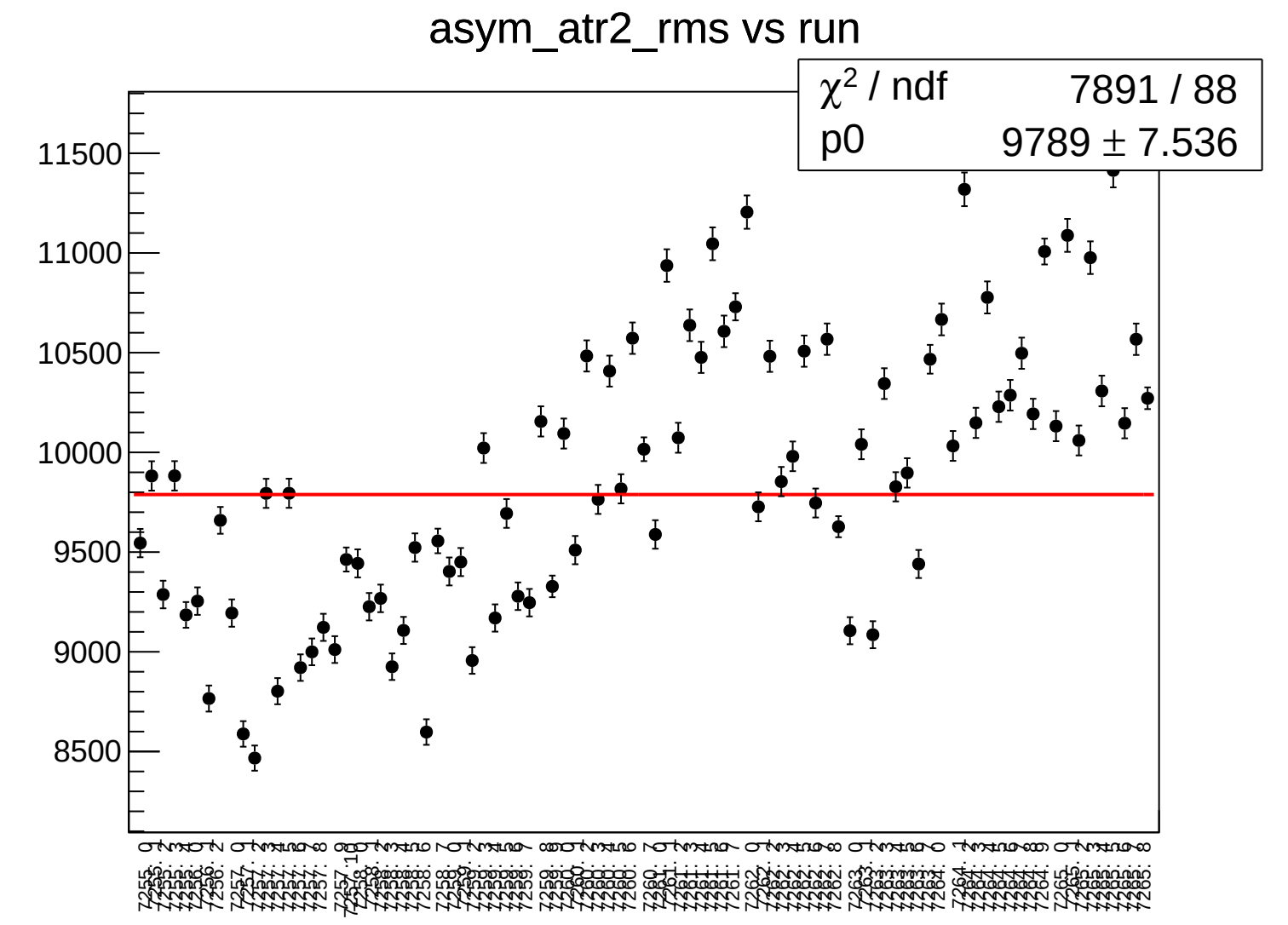

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.72 / 88
p0 7901± 1.038e+04
pull
Entries 89
Mean 1237
Std Dev 0

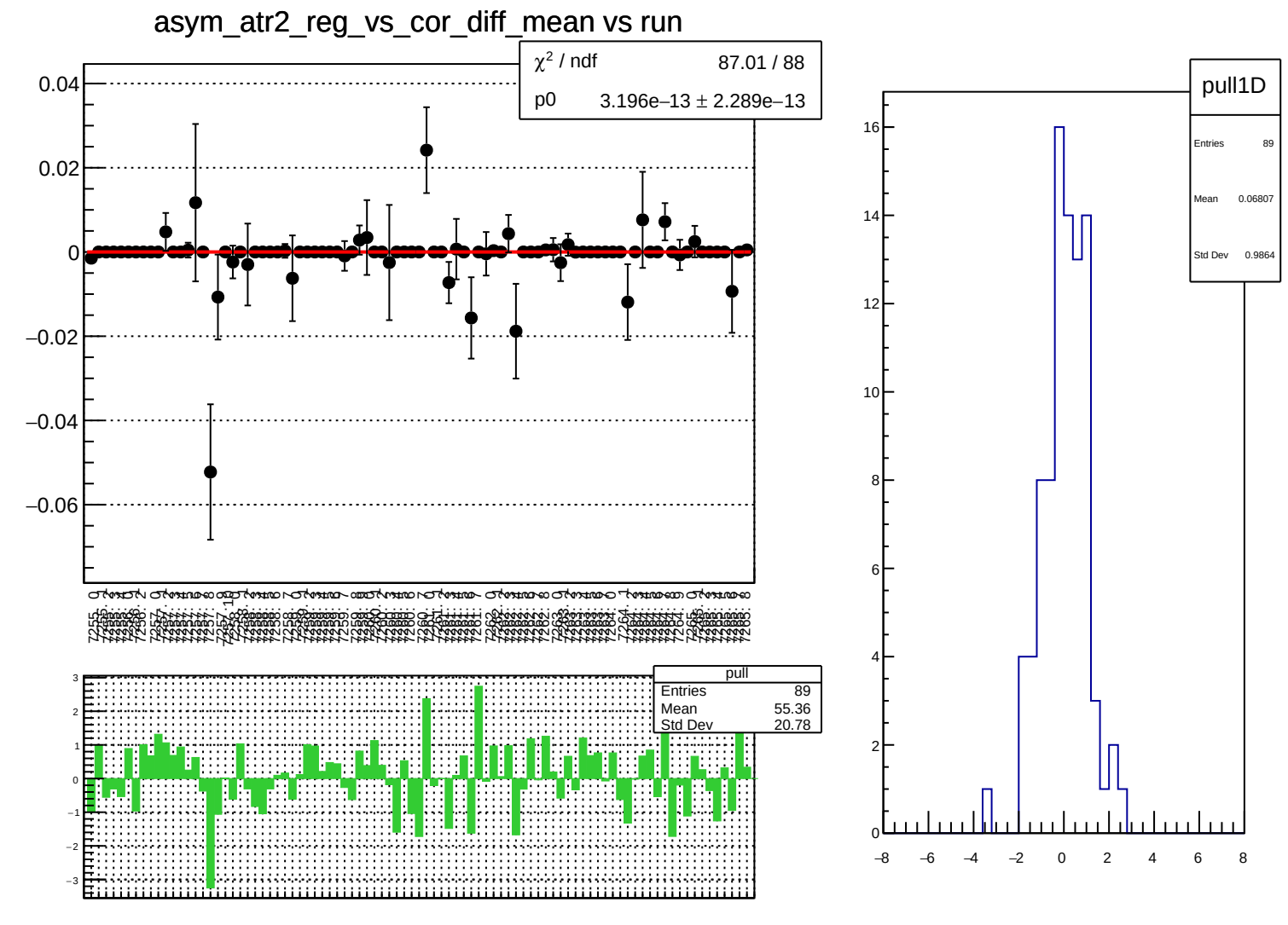

pull1D
Entries 89
Mean −0.003751
Std Dev 0.9928

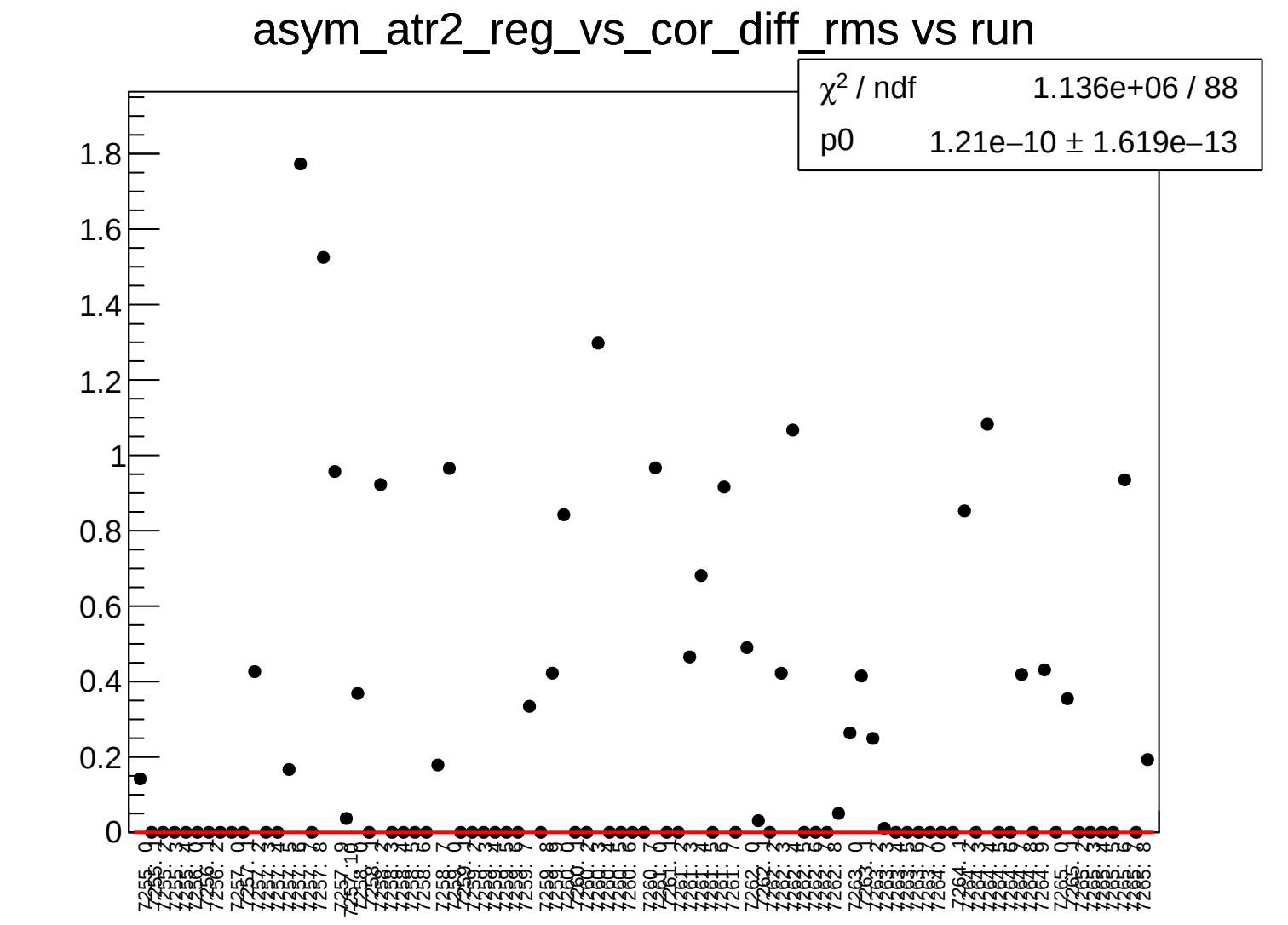

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 8823 / 88
p0 9527 ± 7.337
11500
11000
10500
10000
9500
9000
8500
8000

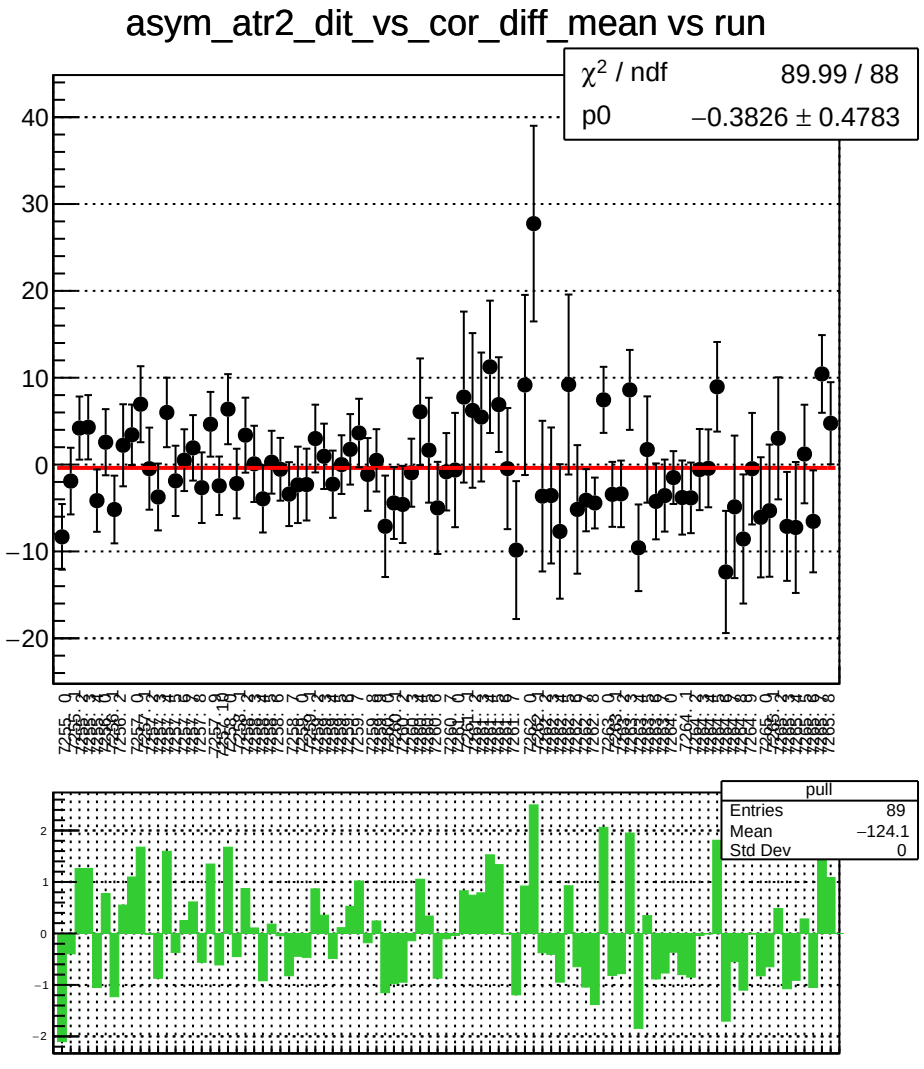

asym_atr2_mean vs run
×10^3
χ² / ndf 86.84 / 88
p0 −1.227e+04 ± 1.066e+04
400
200
0
−200
−400
pull
Entries 89
Mean 929.5
Std Dev 0
3
2
1
0
−1
−2

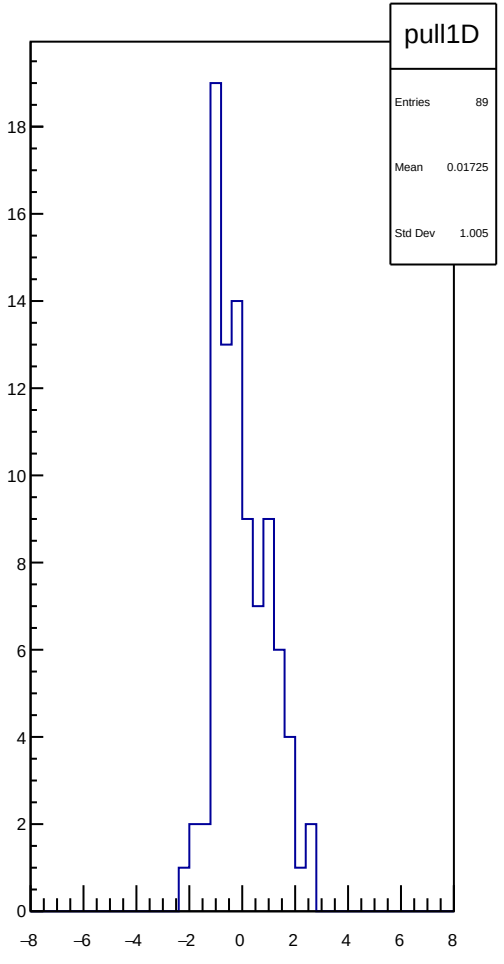

pull1D
Entries 89
Mean 0.005539
Std Dev 0.9878
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

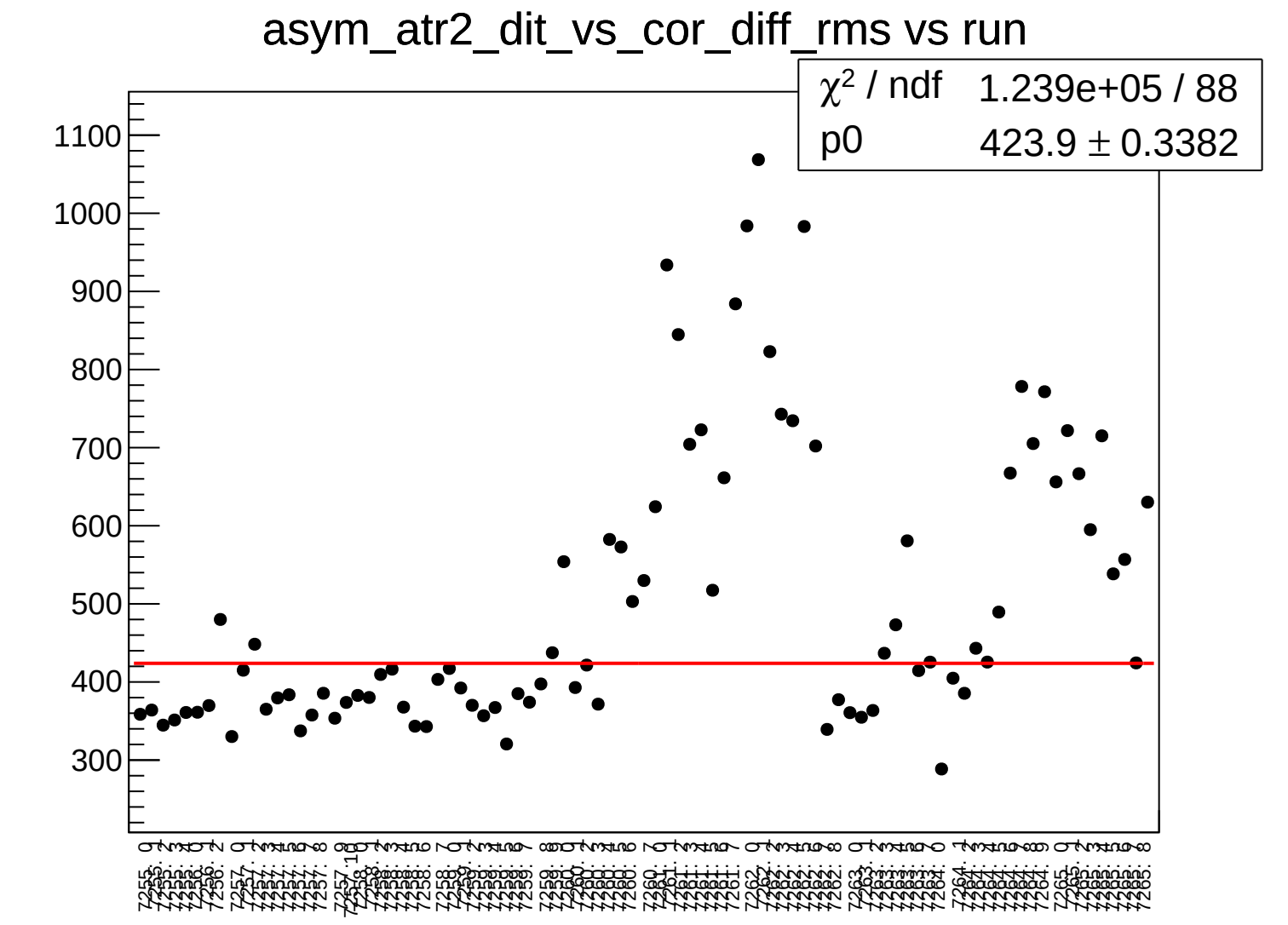

asym_atr2_rms vs run
χ^2 / ndf 7891 / 88
p0 9789 ± 7.536
11500
11000
10500
10000
9500
9000
8500

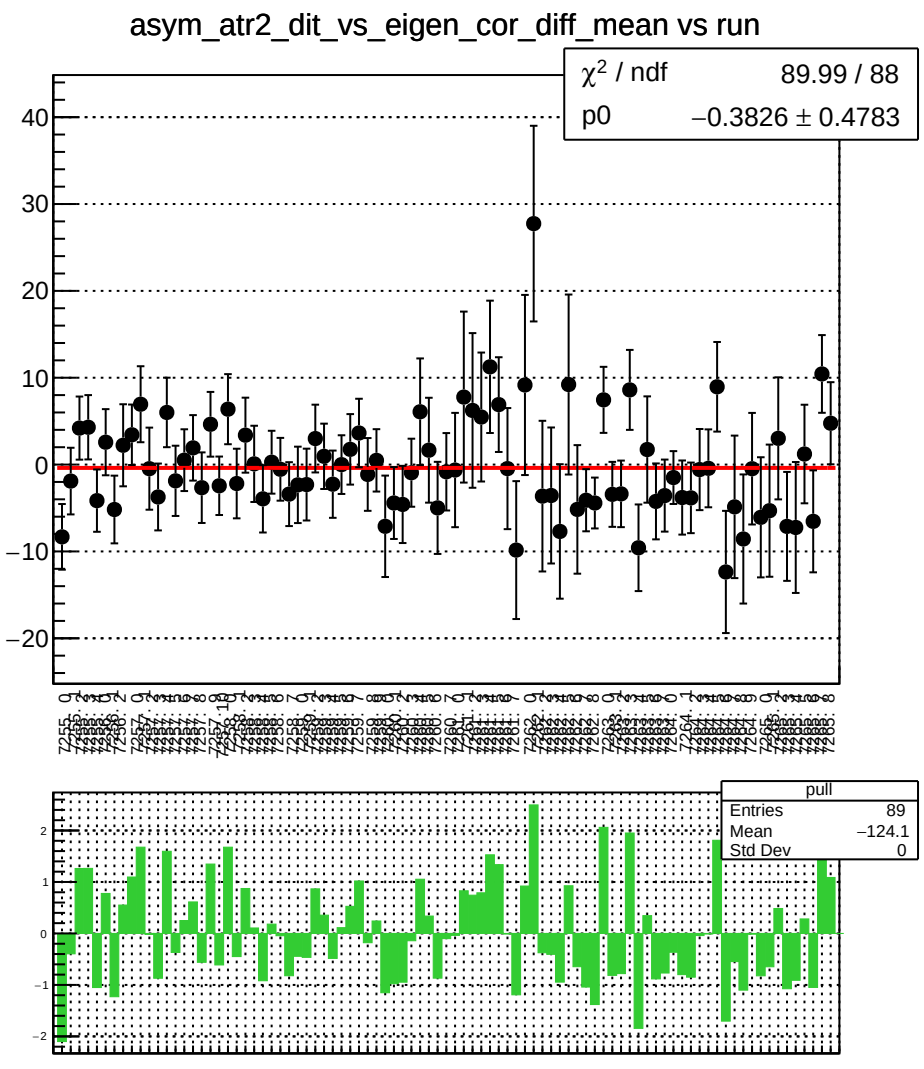

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 87.01 / 88
p0 3.196e−13 ± 2.289e−13
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 55.36
Std Dev 20.78
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.06807
Std Dev 0.9864
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

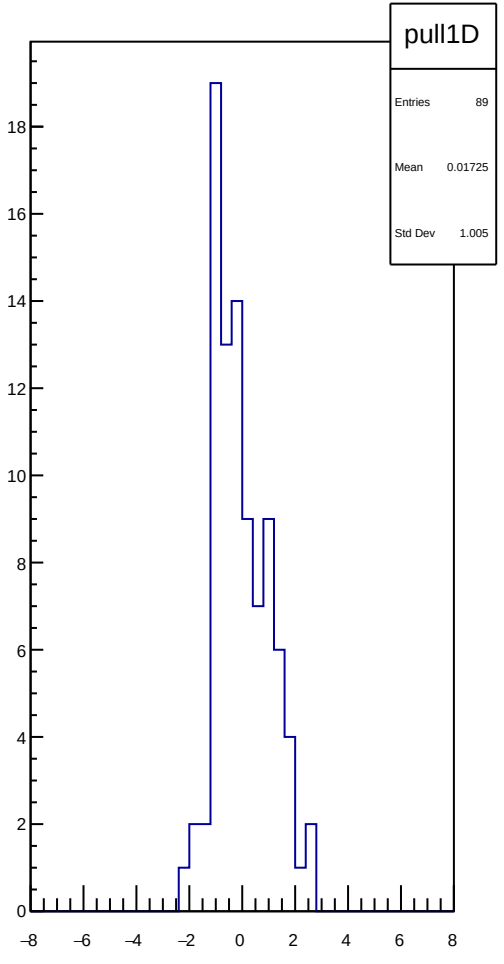

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.136e+06 / 88
p0 1.21e−10 ± 1.619e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

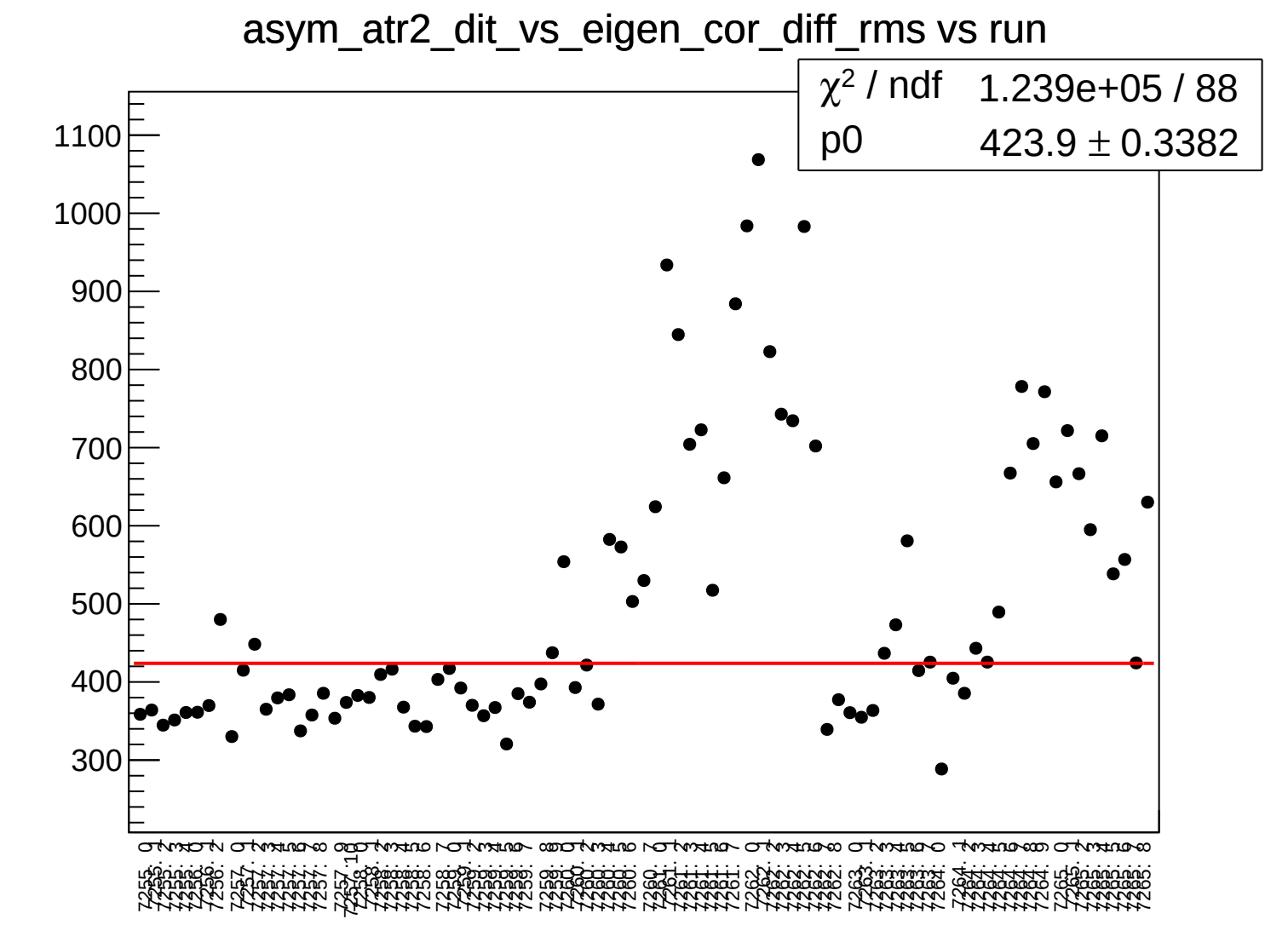

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 89.99 / 88
p0 −0.3826 ± 0.4783
pull
Entries 89
Mean −124.1
Std Dev 0

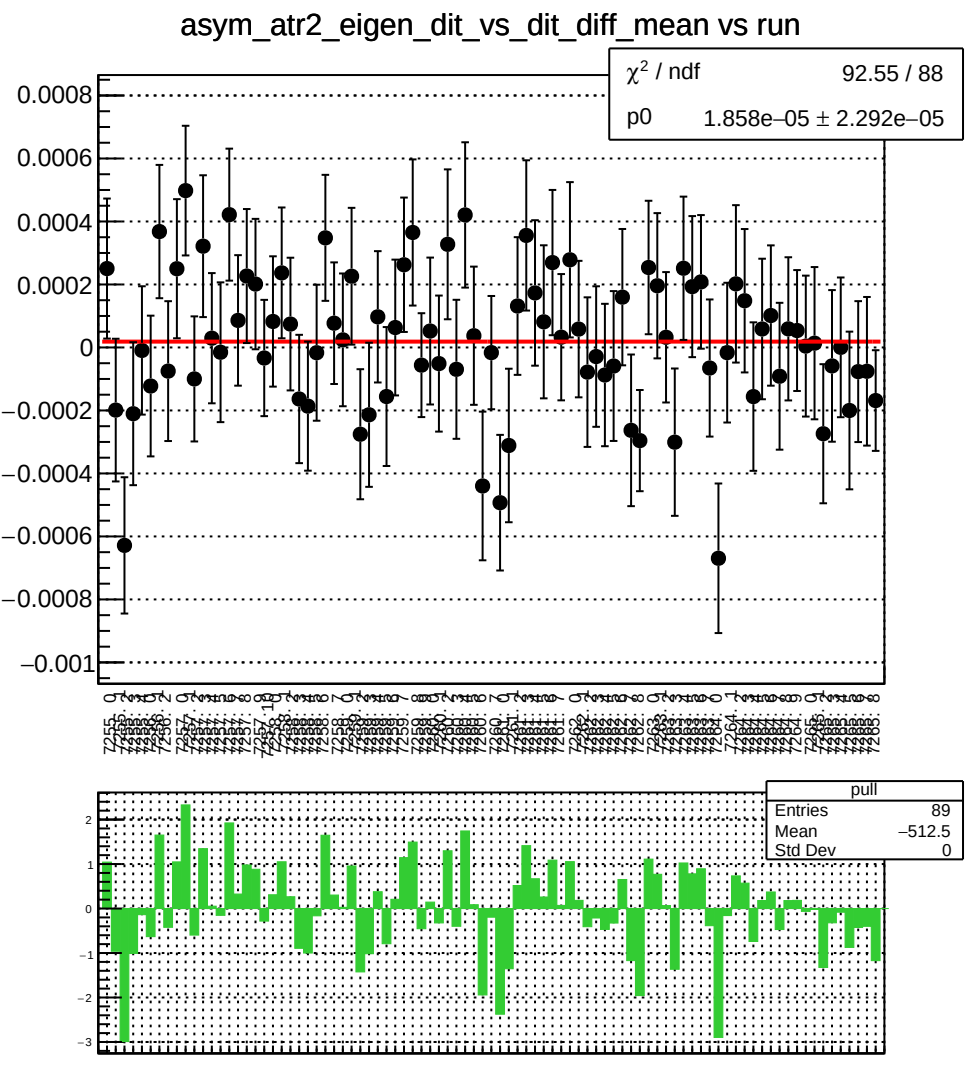

pull1D
Entries 89
Mean 0.01725
Std Dev 1.005

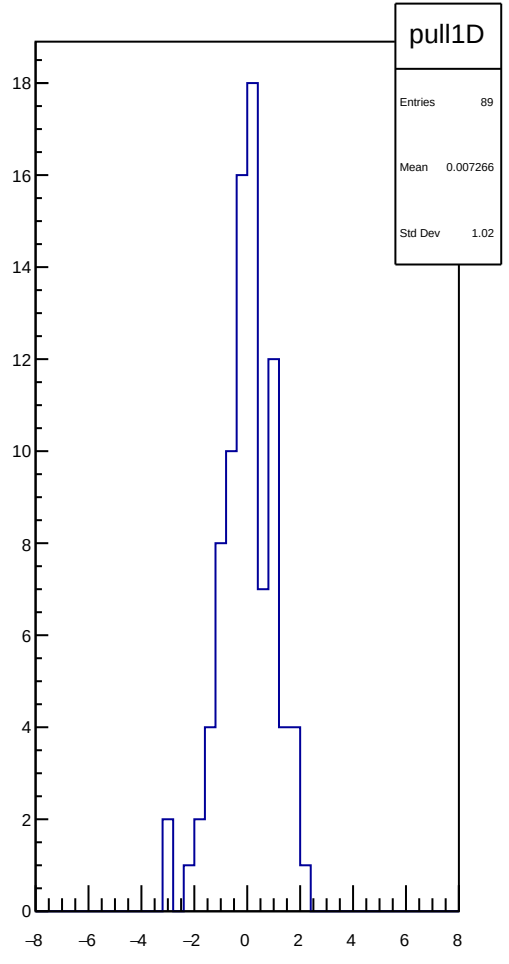

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.239e+05 / 88
p0 423.9 ± 0.3382
1100
1000
900
800
700
600
500
400
300

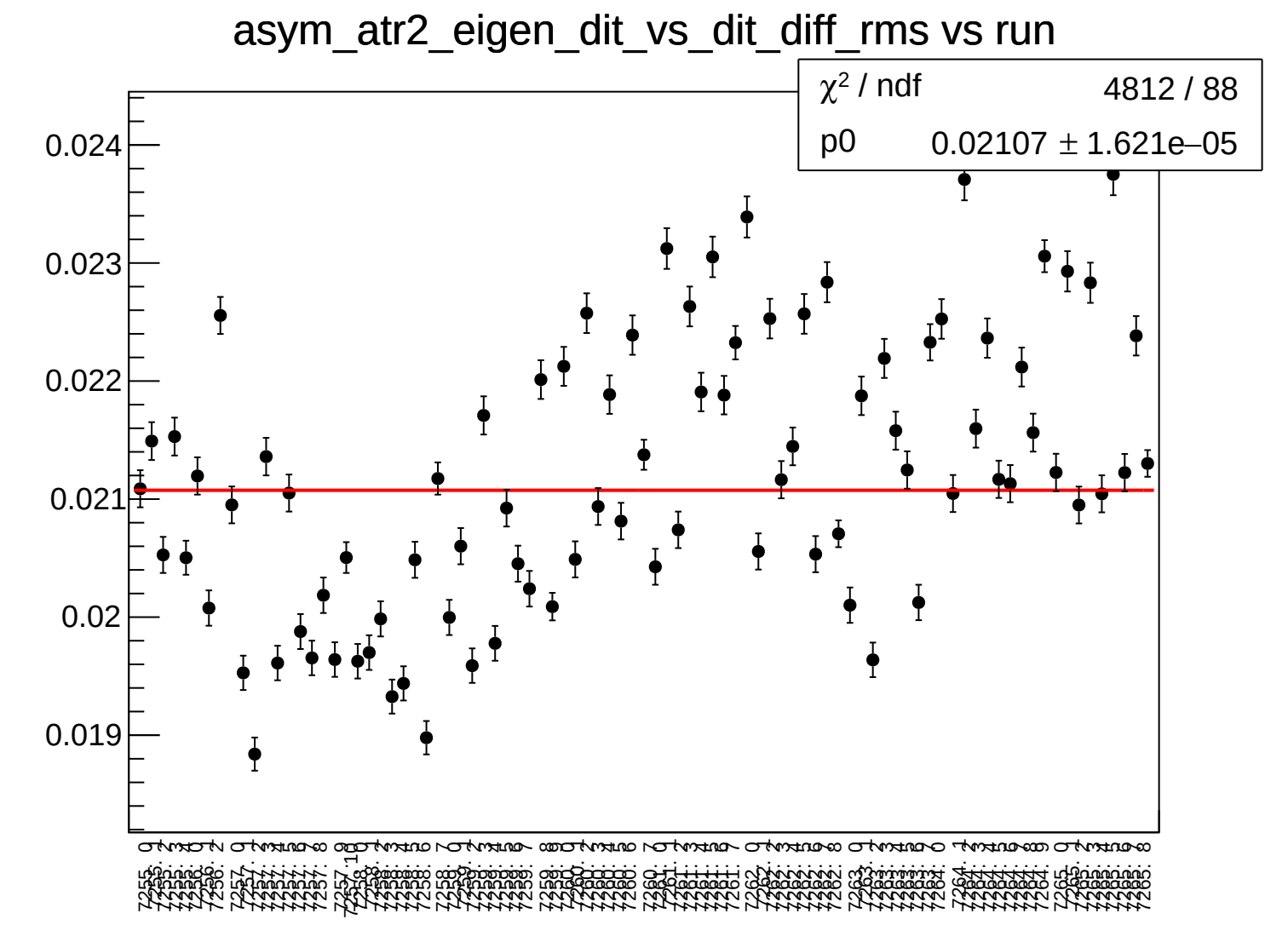

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.99 / 88
p0 −0.3826 ± 0.4783
pull
Entries 89
Mean −124.1
Std Dev 0

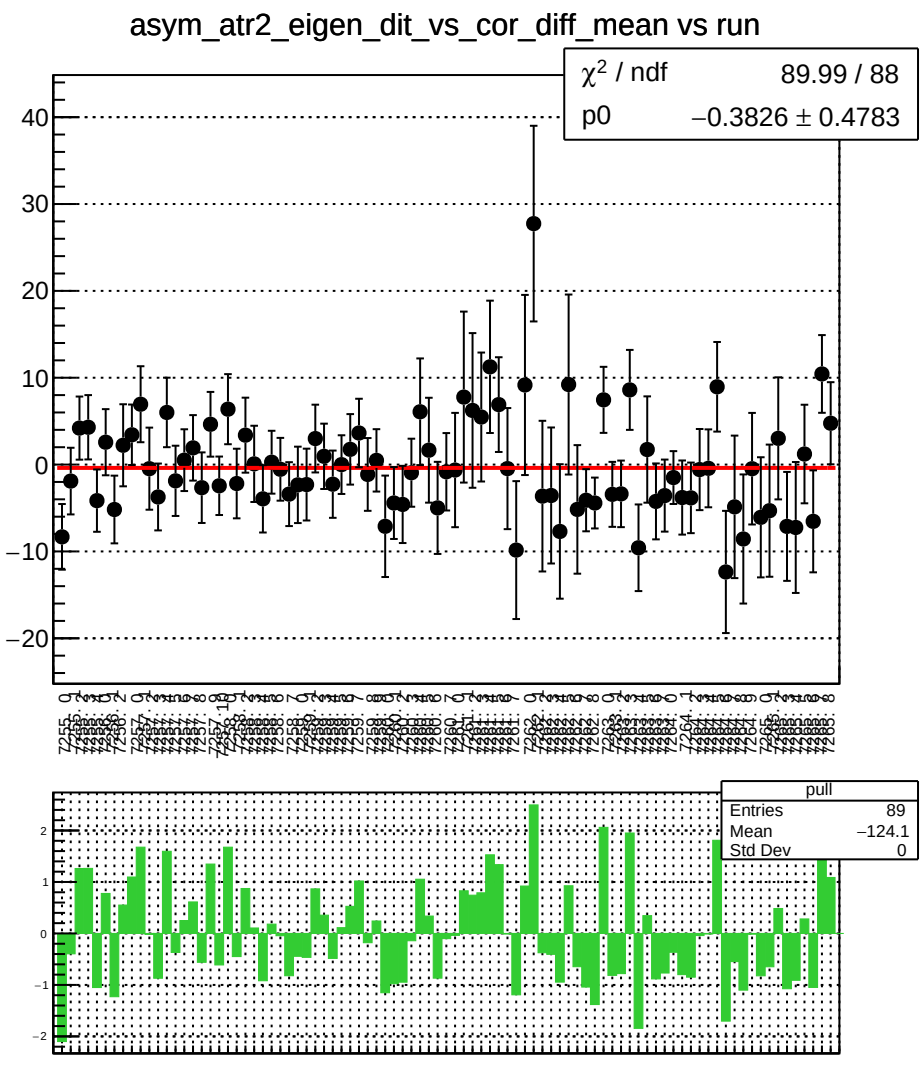

pull1D
Entries 89
Mean 0.01725
Std Dev 1.005

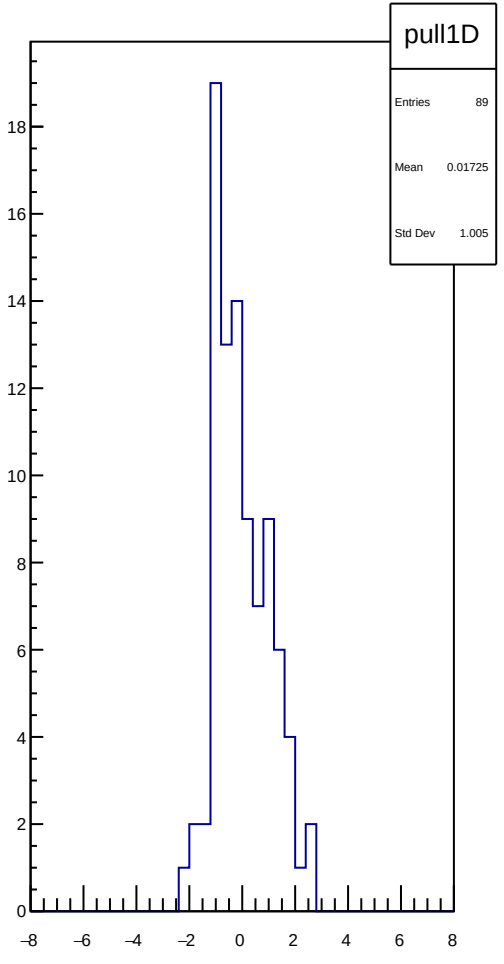

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.239e+05 / 88
p0 423.9 ± 0.3382
1100
1000
900
800
700
600
500
400
300

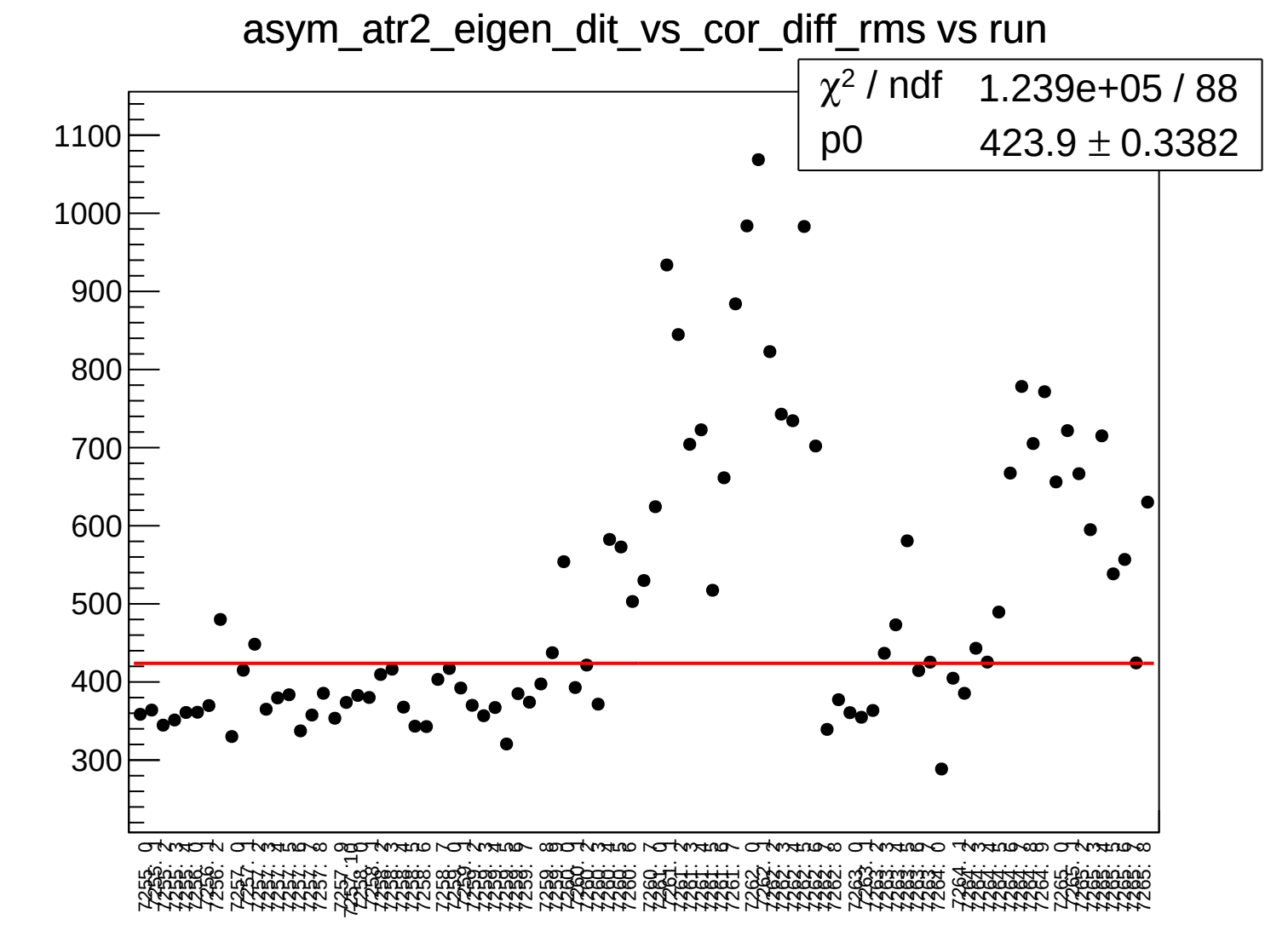

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 92.55 / 88
p0 1.858e−05 ± 2.292e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 89
Mean −512.5
Std Dev 0
2
1
0
−1
−2
−3

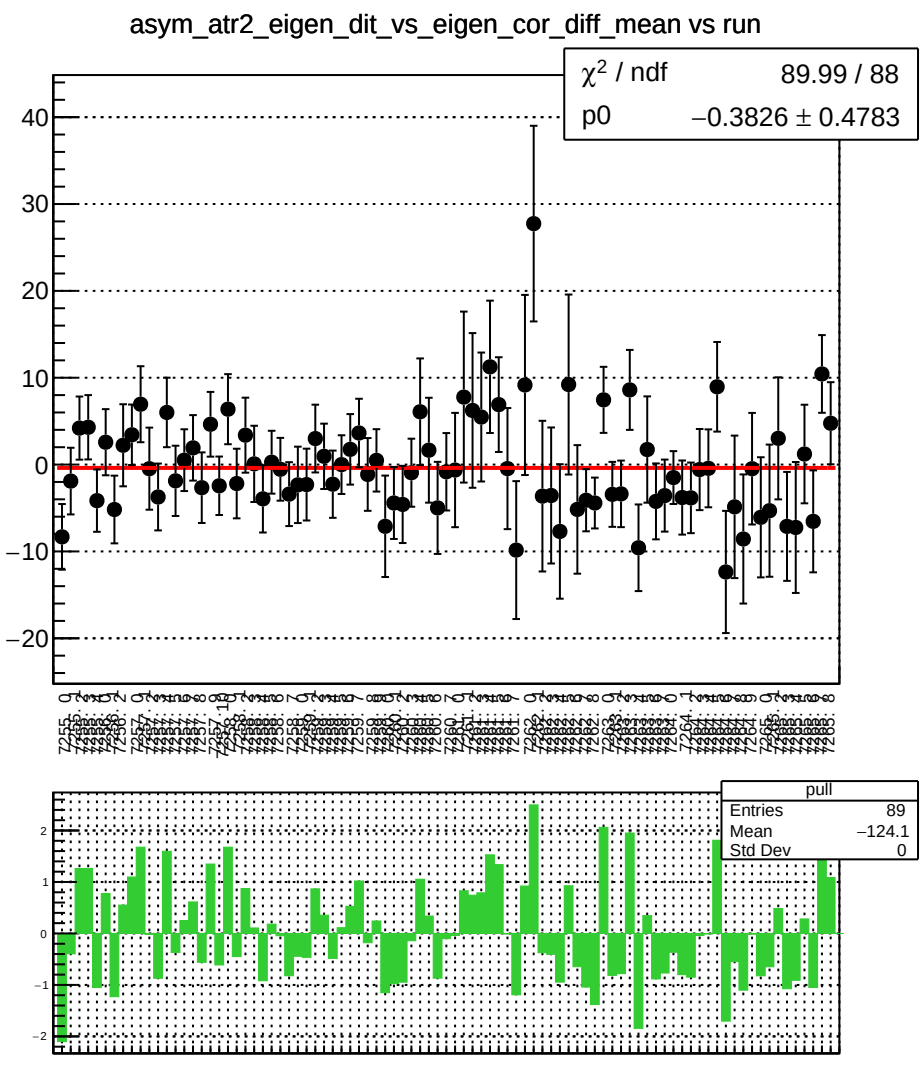

pull1D
Entries 89
Mean 0.007266
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

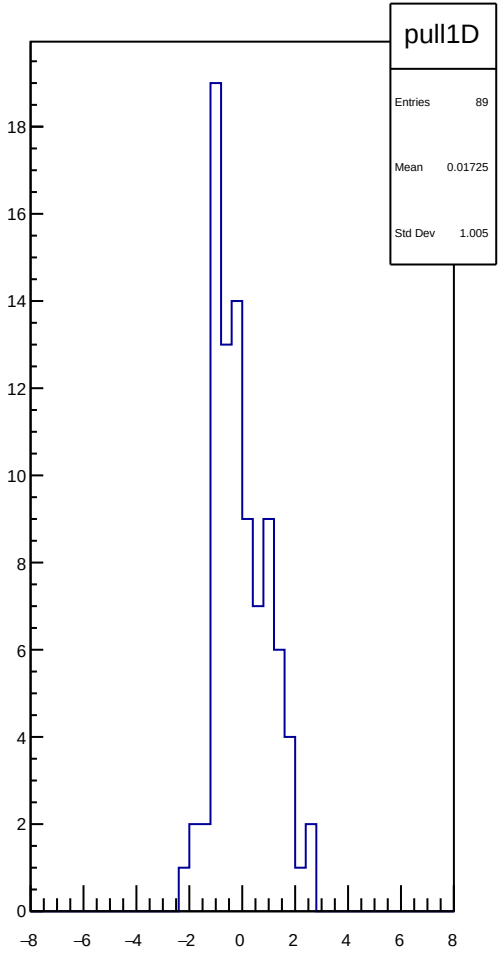

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4812 / 88
p0 0.02107 ± 1.621e–05
0.024
0.023
0.022
0.021
0.02
0.019

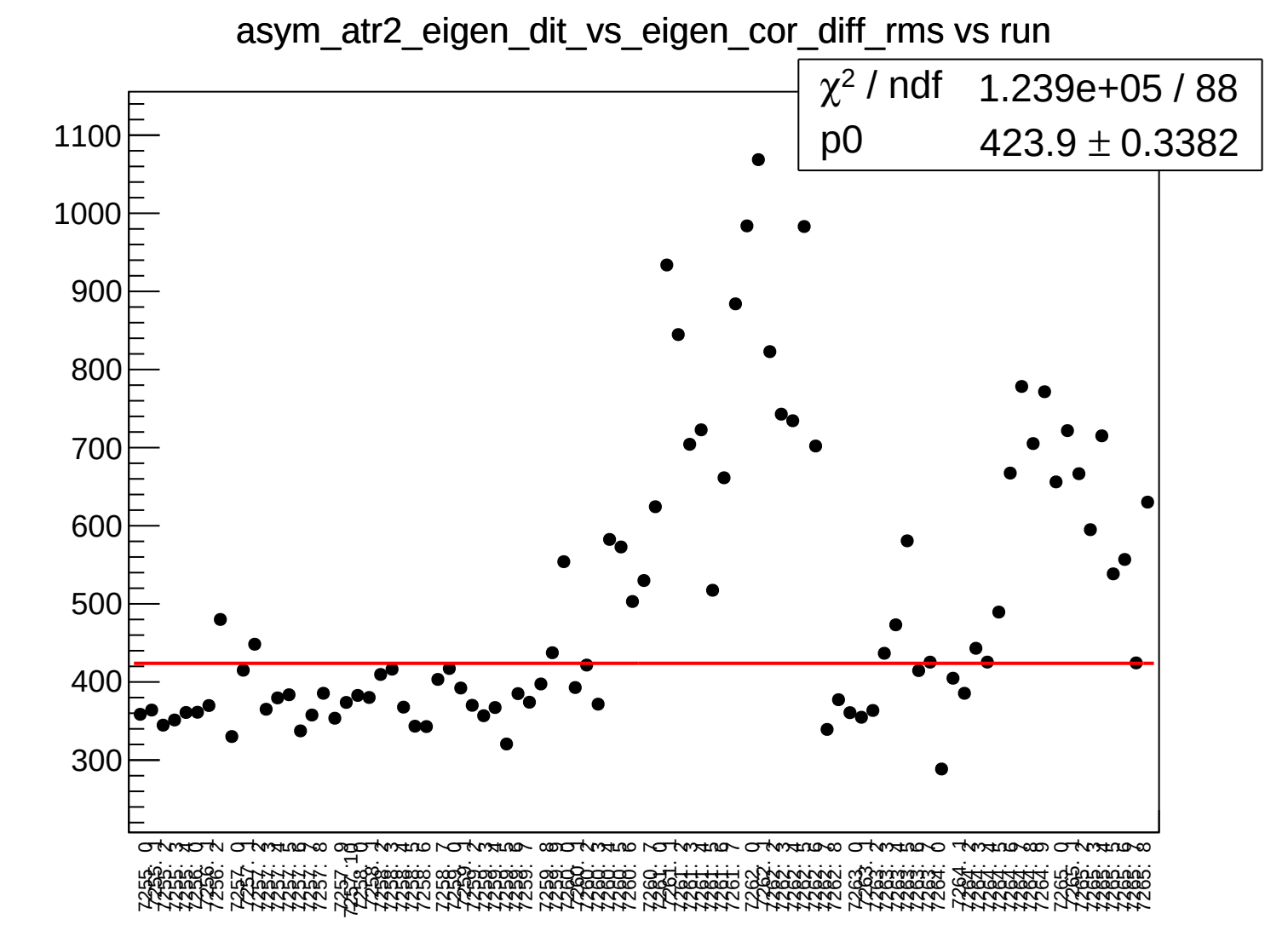

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.99 / 88
p0 −0.3826 ± 0.4783
pull
Entries 89
Mean −124.1
Std Dev 0

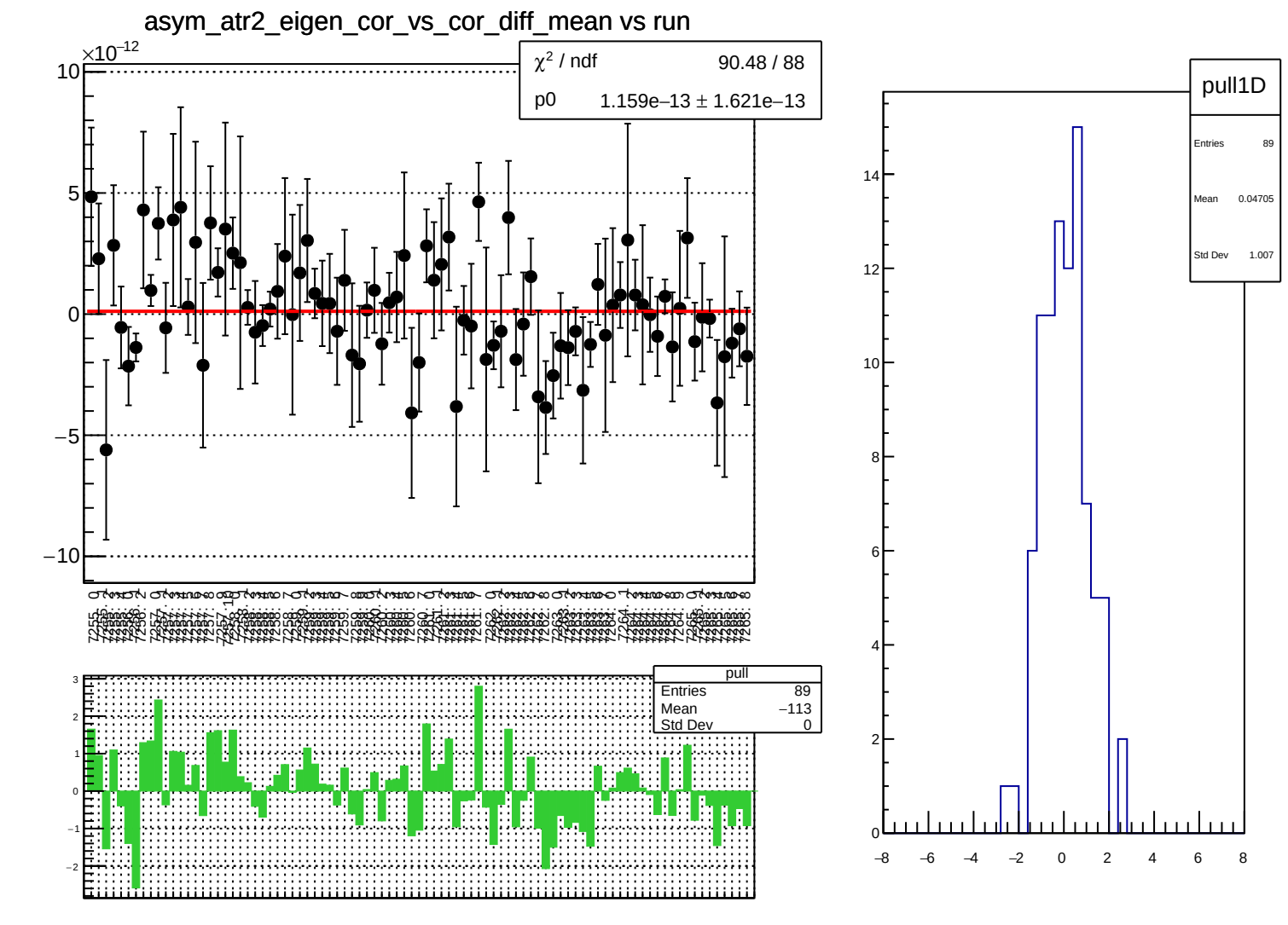

pull1D
Entries 89
Mean 0.01725
Std Dev 1.005

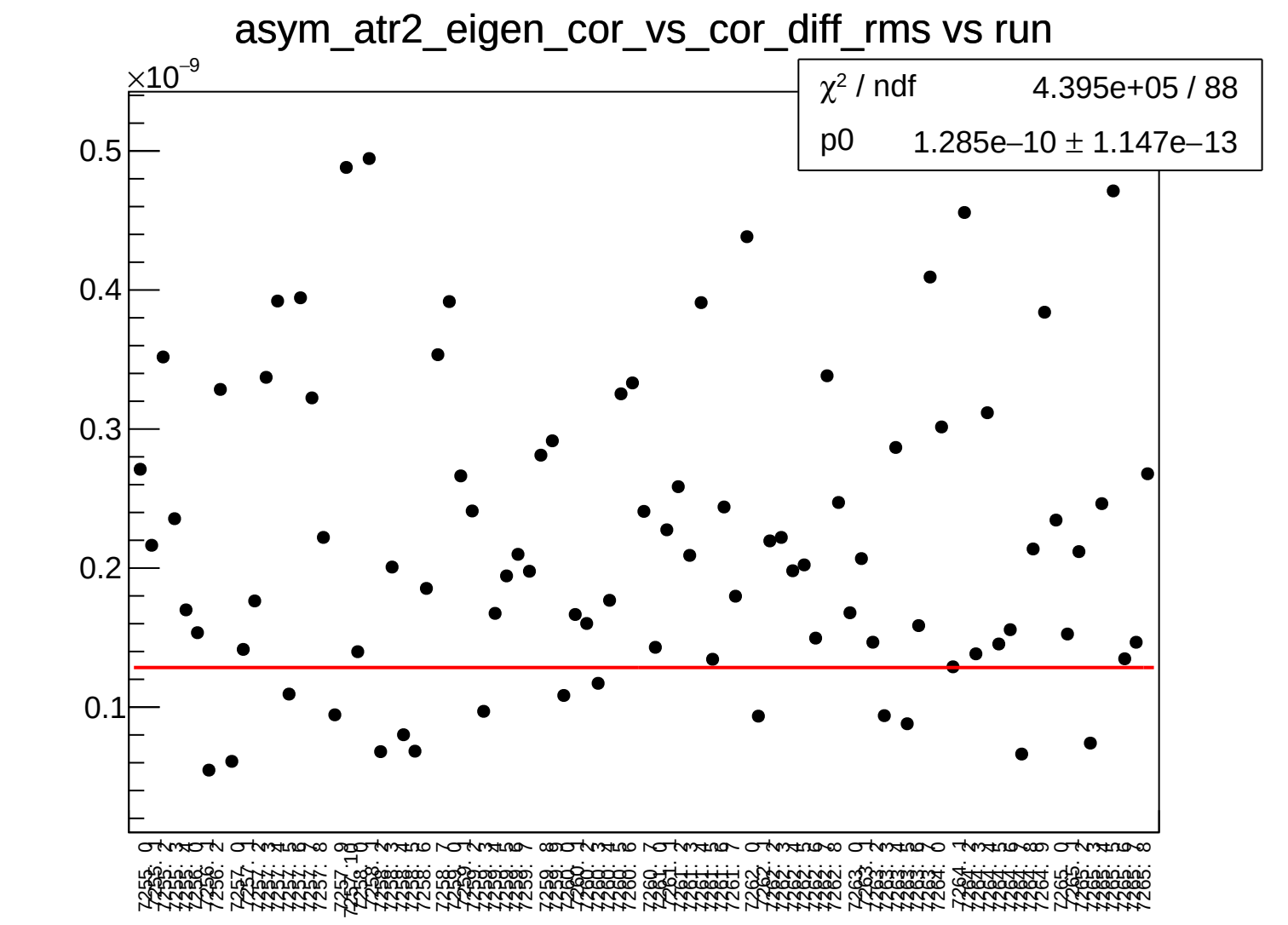

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.239e+05 / 88
p0 423.9 ± 0.3382
1100
1000
900
800
700
600
500
400
300

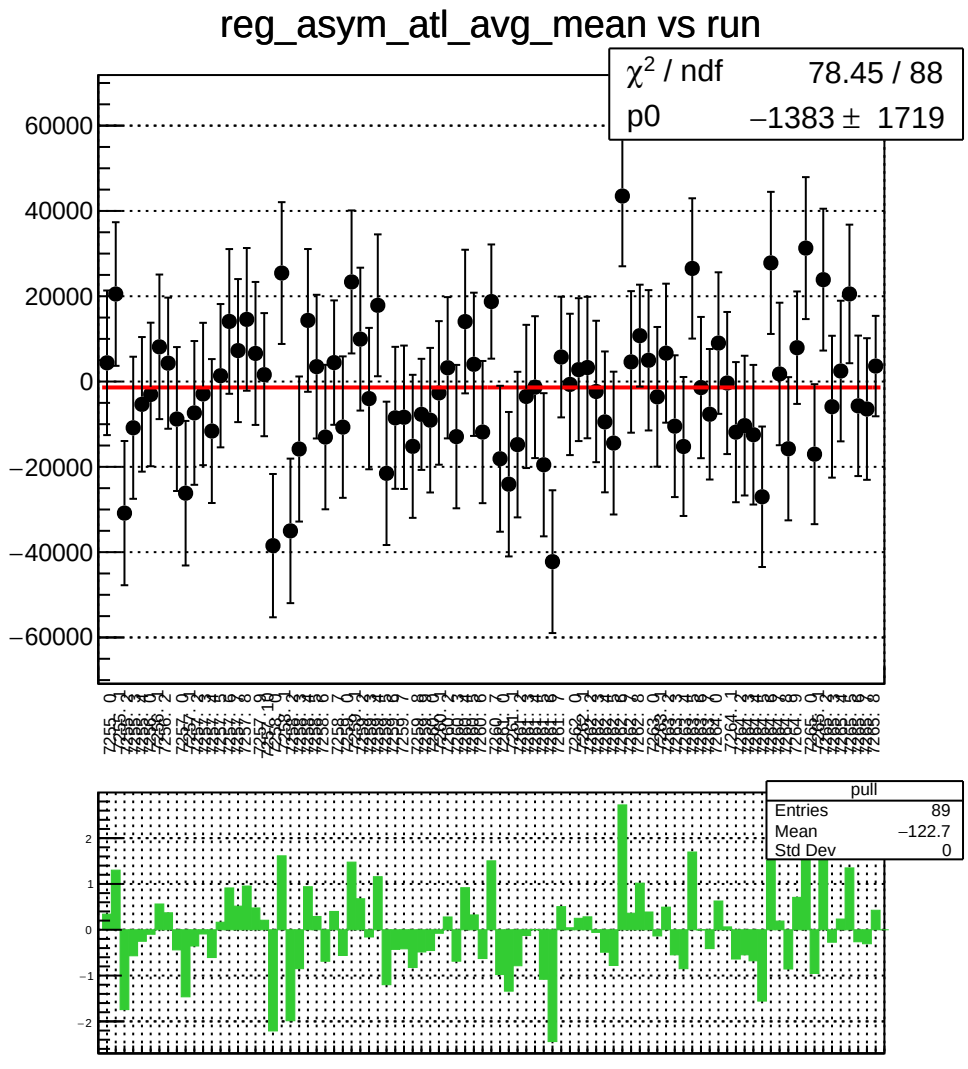

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.99 / 88
p0 −0.3826 ± 0.4783
pull
Entries 89
Mean −124.1
Std Dev 0

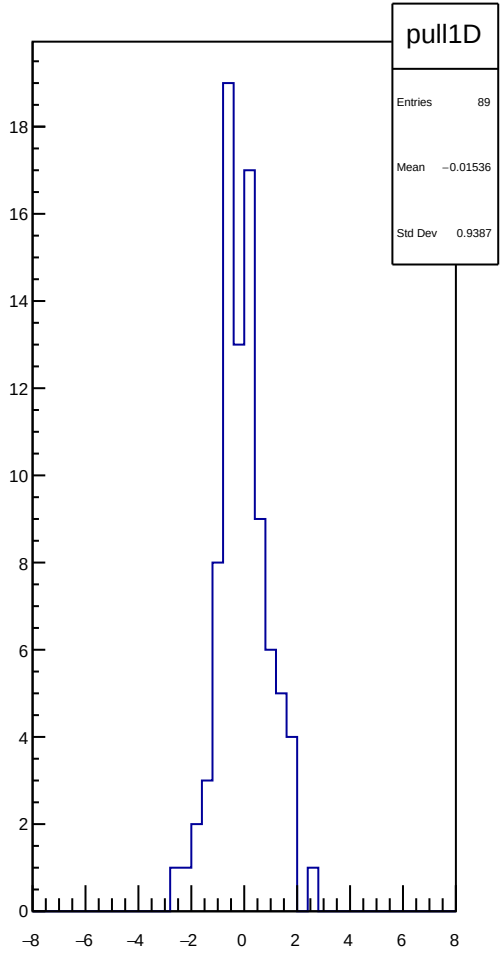

pull1D
Entries 89
Mean 0.01725
Std Dev 1.005

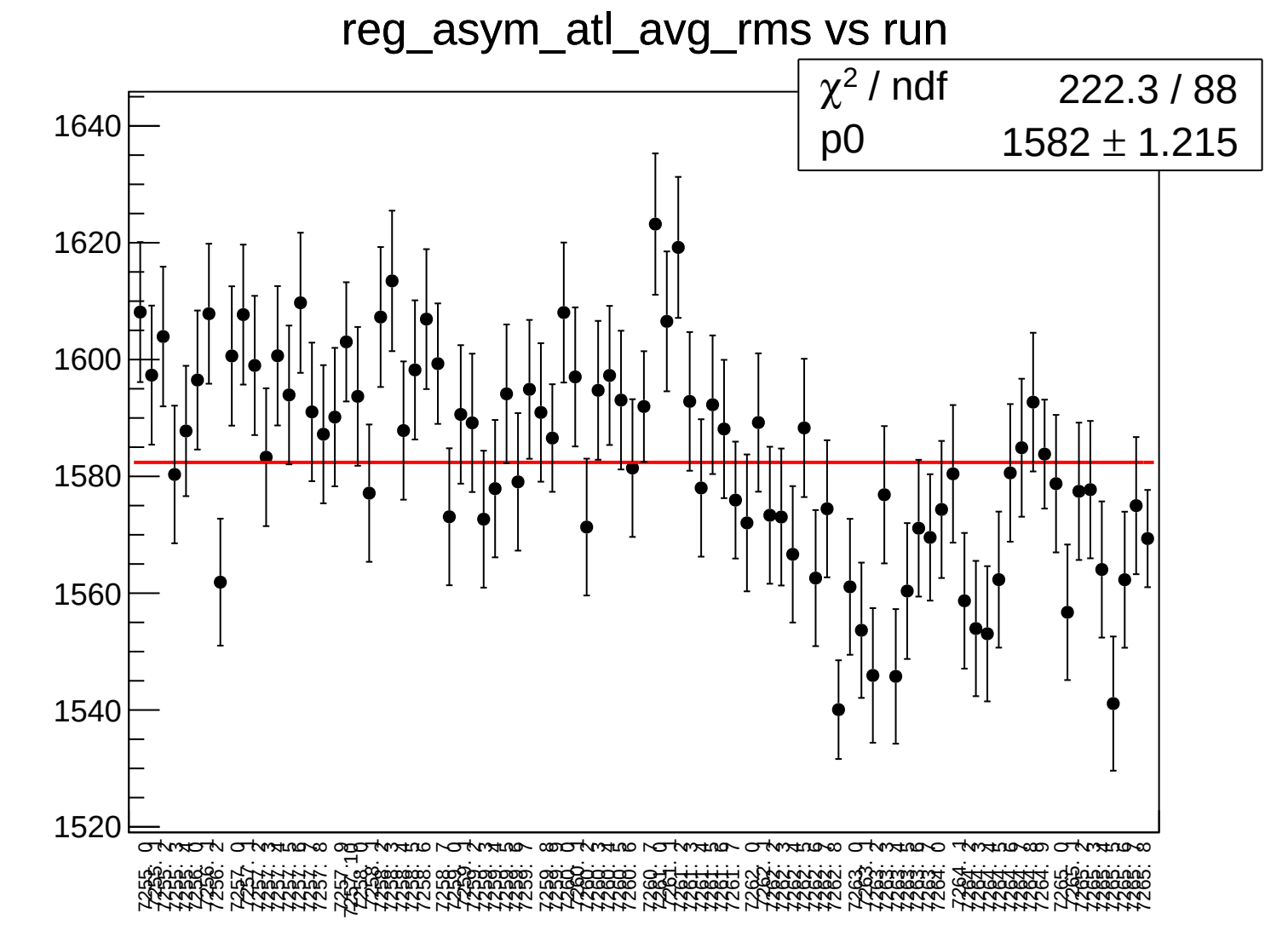

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.239e+05 / 88
p0 423.9 ± 0.3382
1100
1000
900
800
700
600
500
400
300

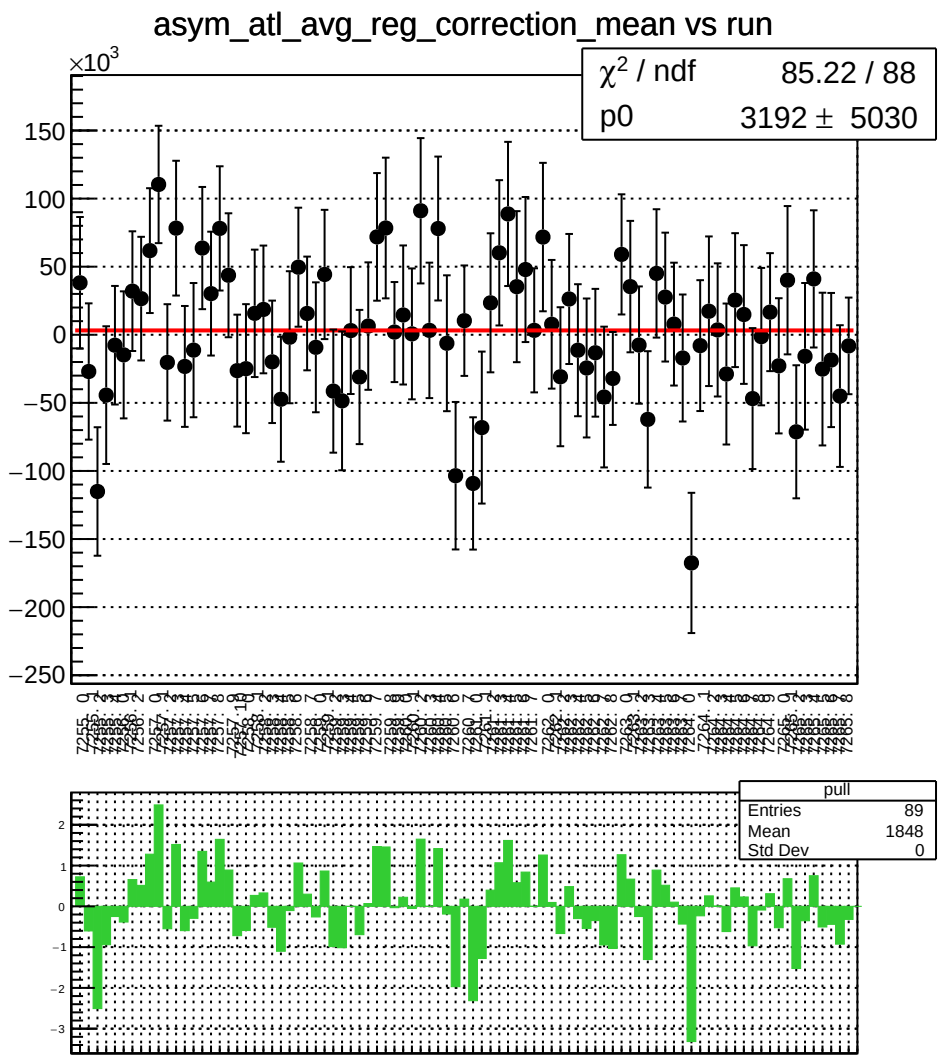

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.48 / 88
p0 1.159e−13 ± 1.621e−13
pull
Entries 89
Mean −113
Std Dev 0
pull1D
Entries 89
Mean 0.04705
Std Dev 1.007

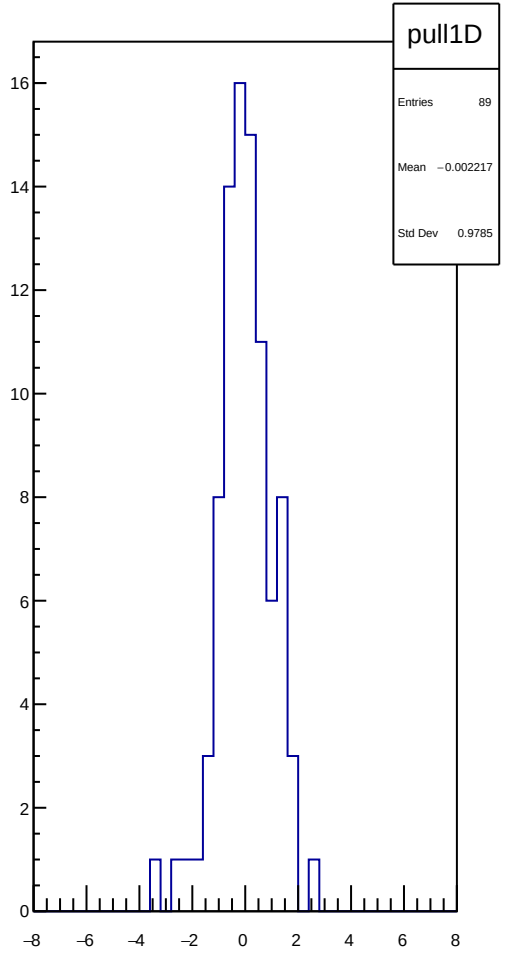

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.395e+05 / 88
p0 1.285e−10 ± 1.147e−13
0.5
0.4
0.3
0.2
0.1

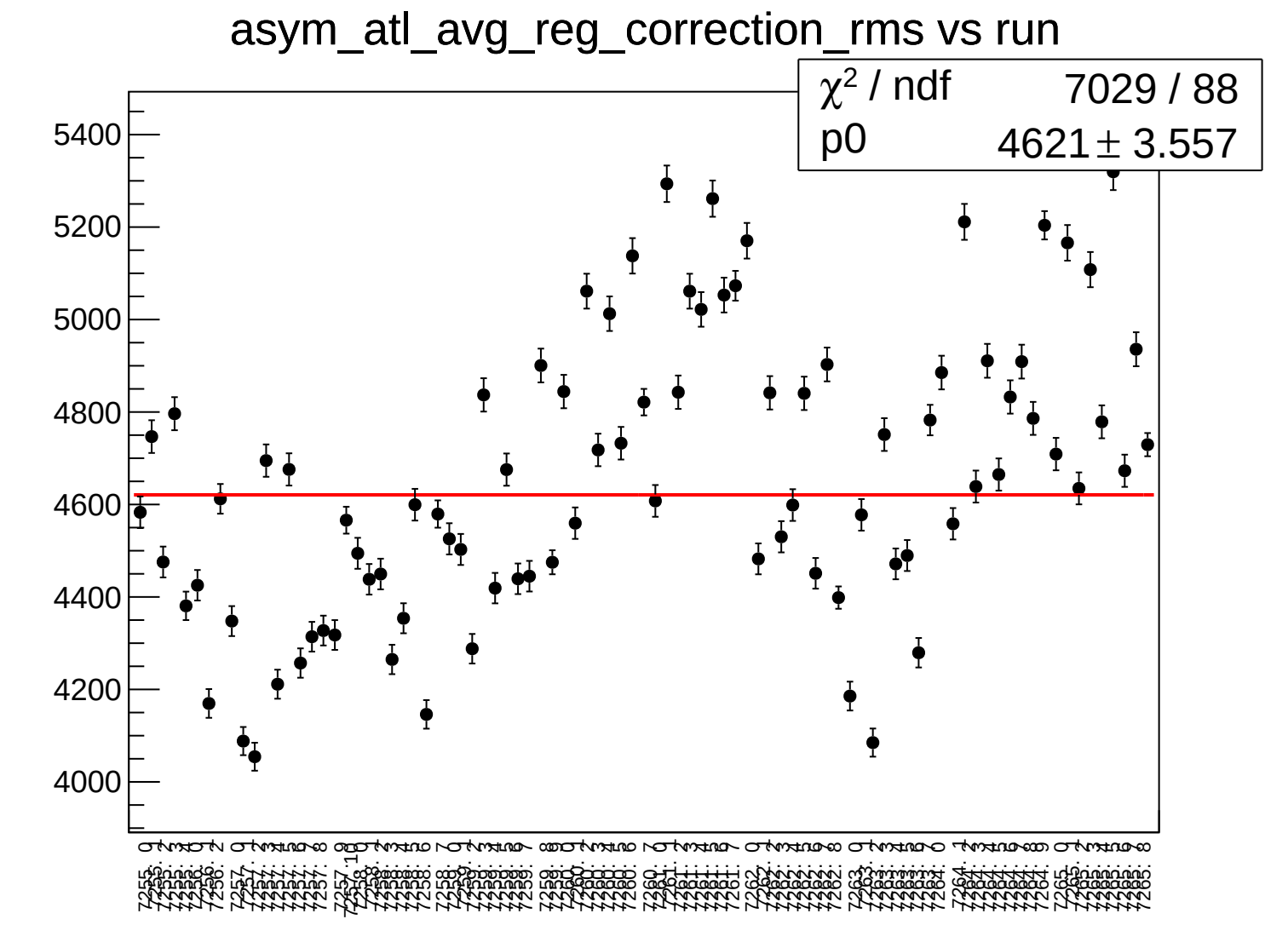

reg_asym_atl_avg_mean vs run
χ² / ndf 78.45 / 88
p0 −1383 ± 1719
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −122.7
Std Dev 0
2
1
0
−1
−2

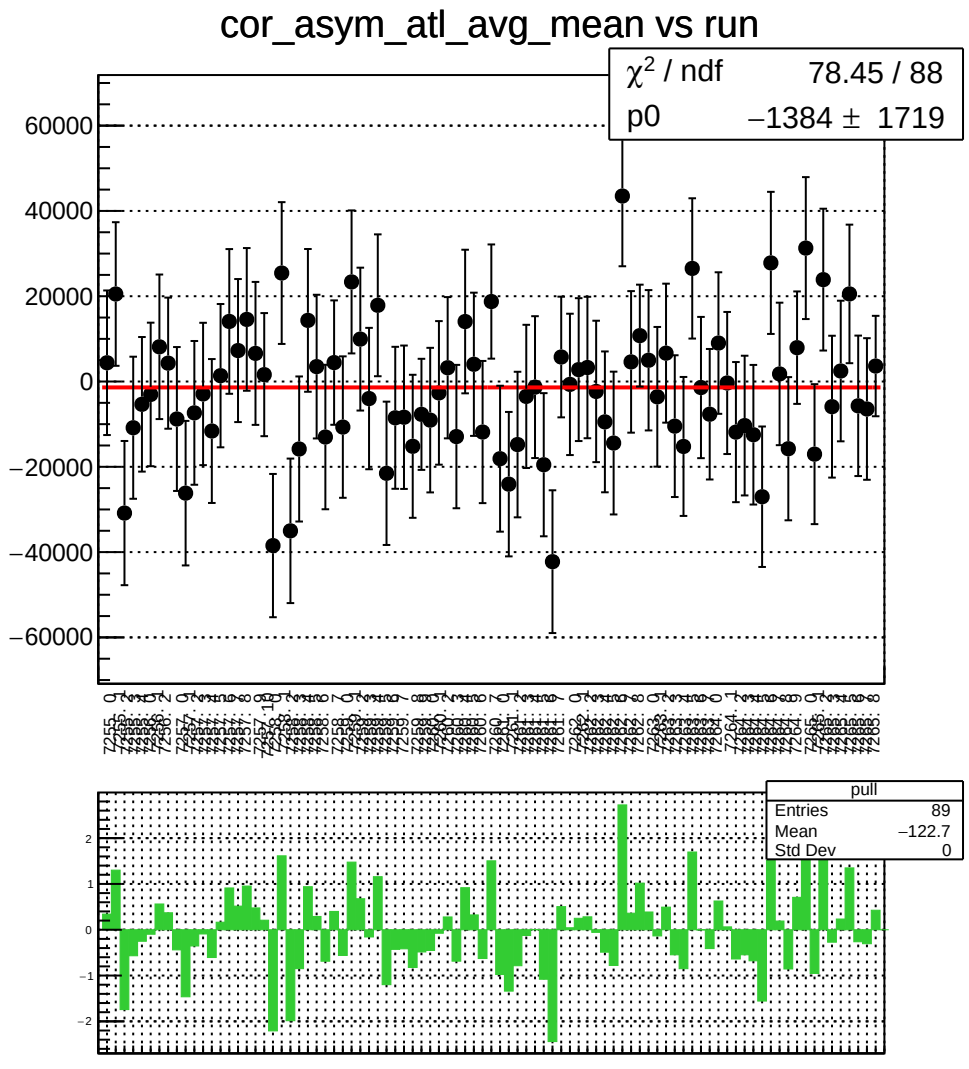

pull1D
Entries 89
Mean −0.01536
Std Dev 0.9387
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

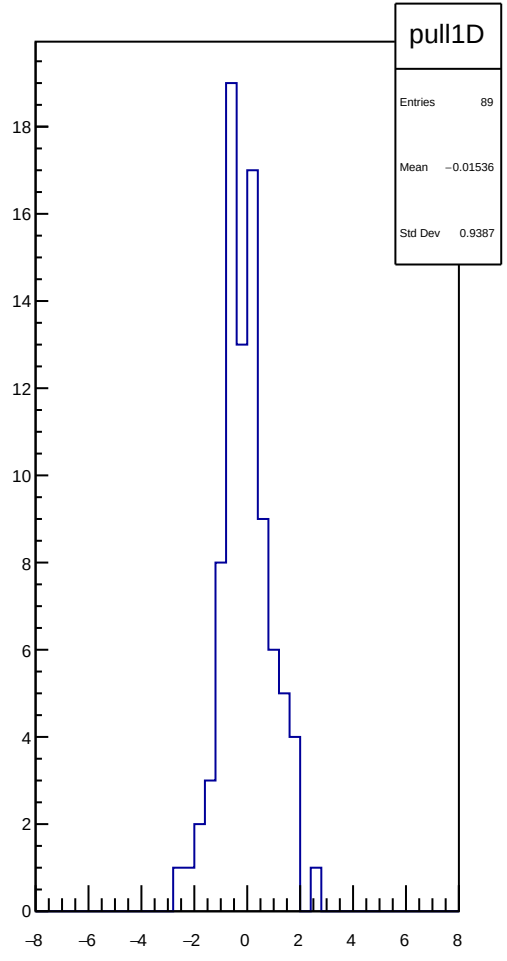

reg_asym_atl_avg_rms vs run
χ² / ndf 222.3 / 88
p0 1582 ± 1.215
1640
1620
1600
1580
1560
1540
1520

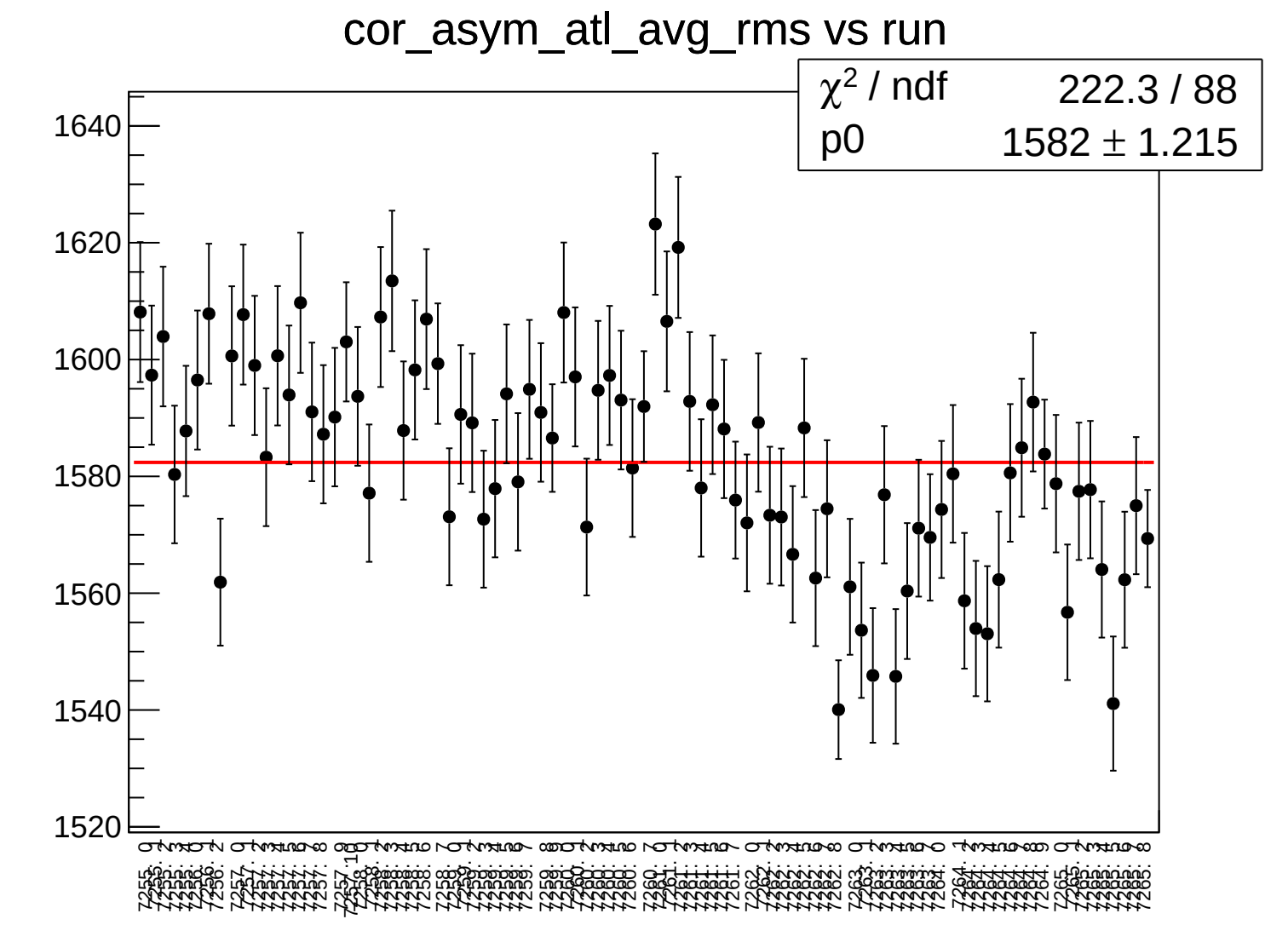

asym_atl_avg_reg_correction_mean vs run
χ^2 / ndf 85.22 / 88
p0 3192 ± 5030
×10^3
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean 1848
Std Dev 0
2
1
0
−1
−2
−3

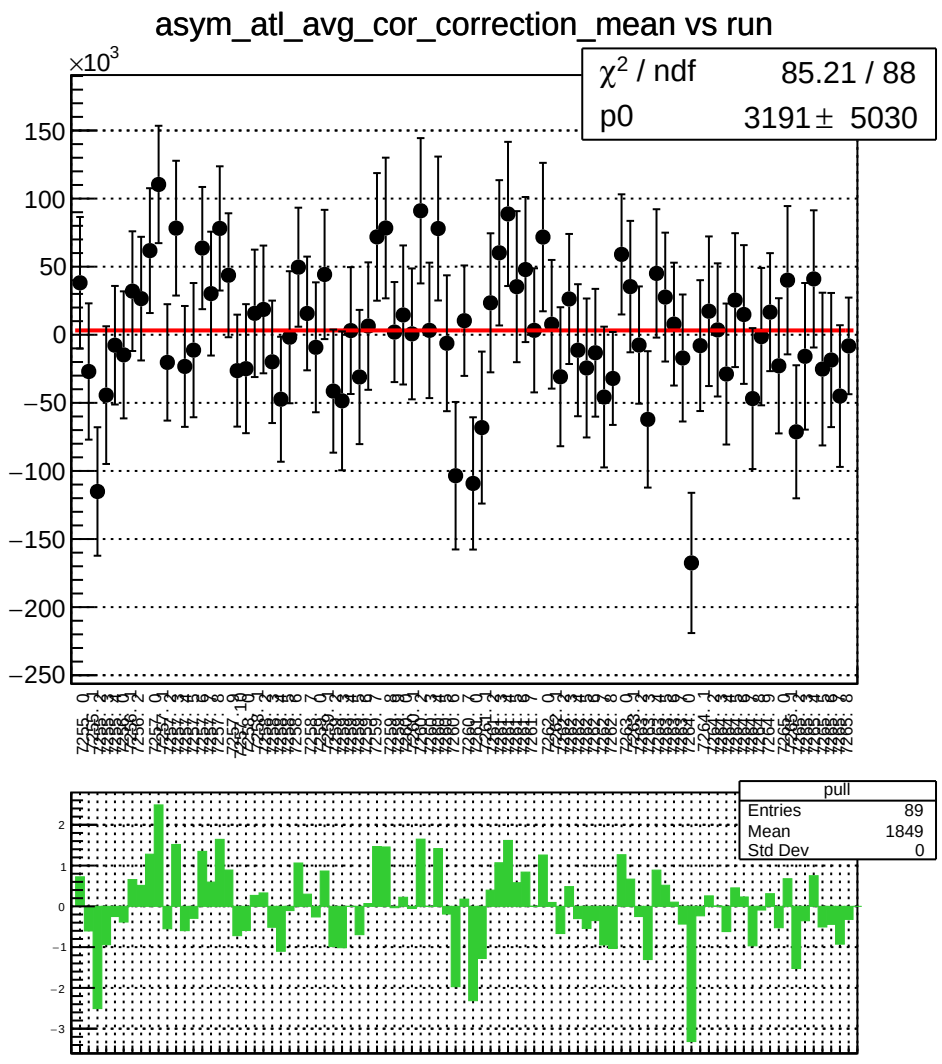

pull1D
Entries 89
Mean −0.002217
Std Dev 0.9785
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

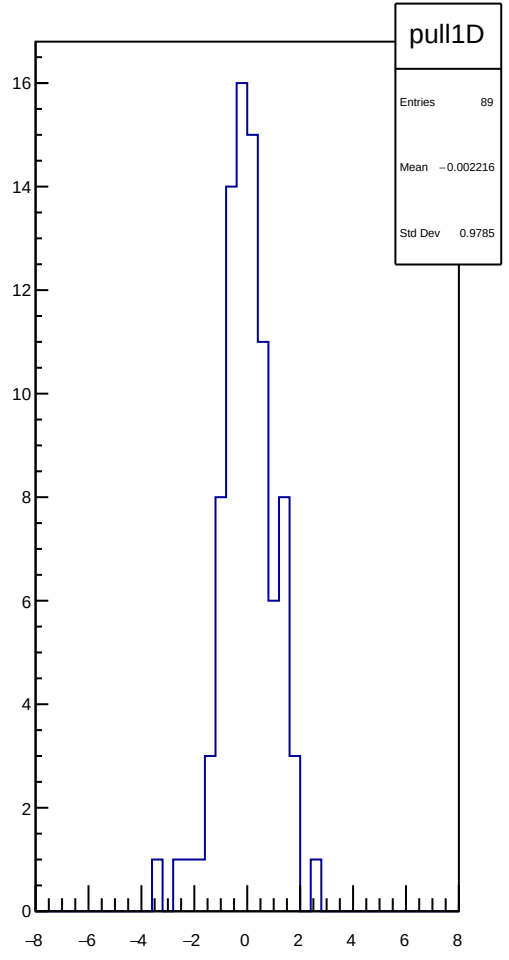

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 7029 / 88
p0 4621 ± 3.557
5400
5200
5000
4800
4600
4400
4200
4000

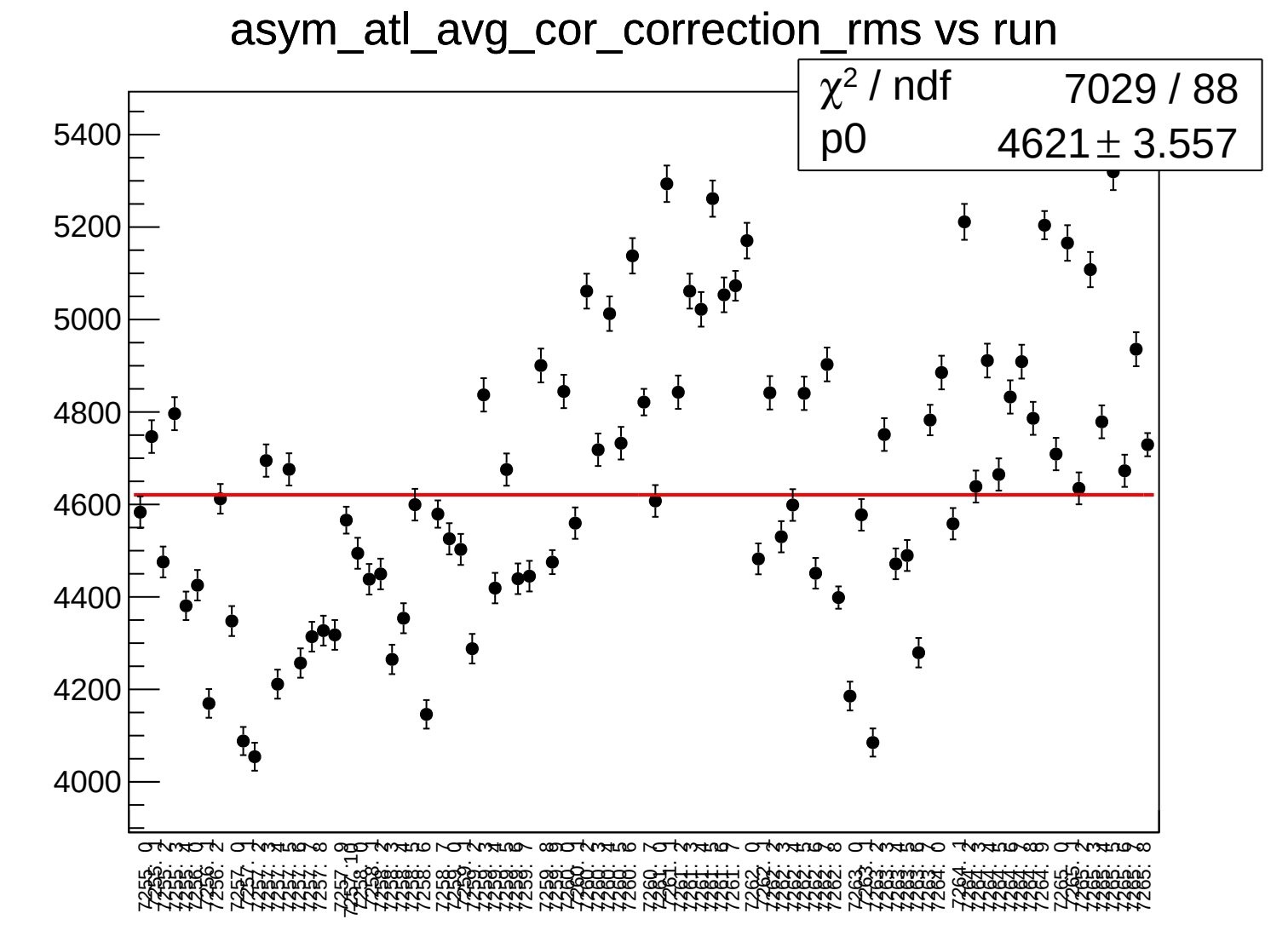

cor_asym_atl_avg_mean vs run
χ² / ndf 78.45 / 88
p0 −1384 ± 1719
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −122.7
Std Dev 0
2
1
0
−1
−2

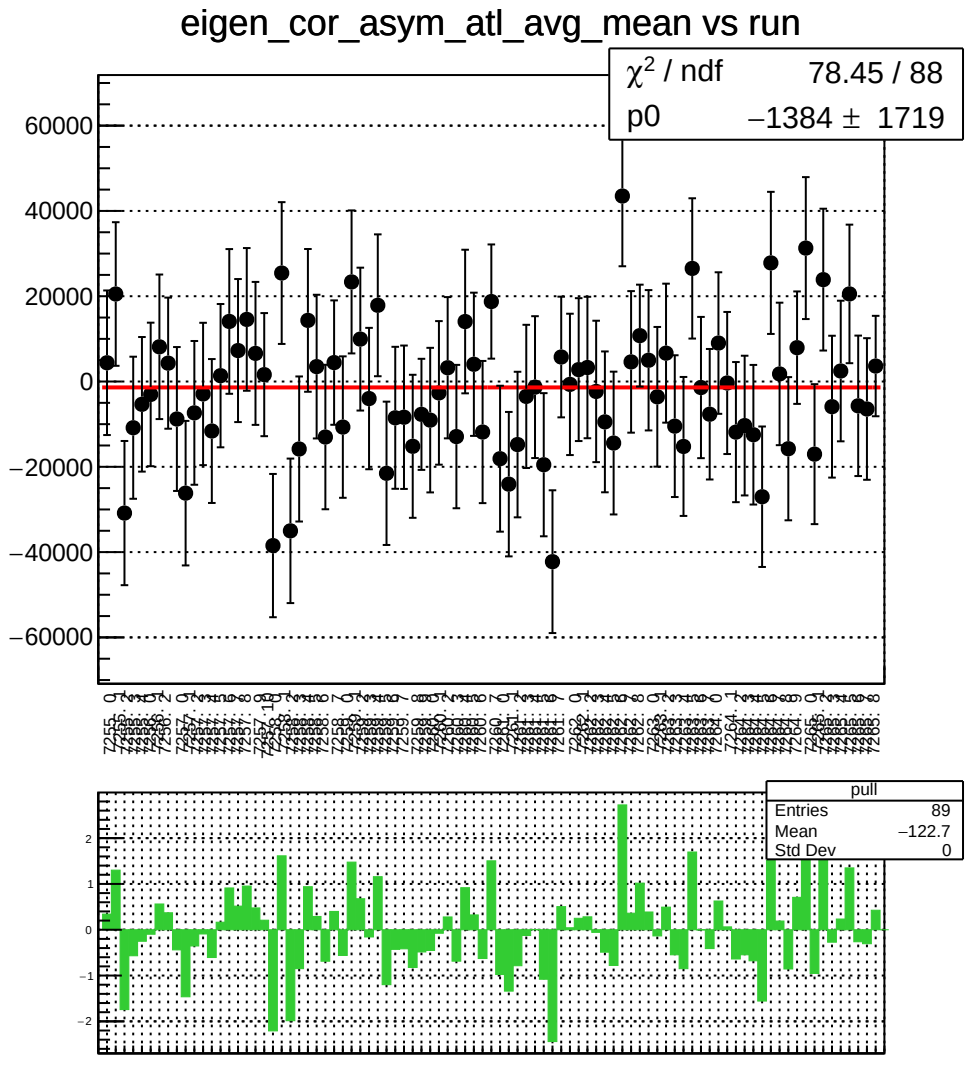

pull1D
Entries 89
Mean −0.01536
Std Dev 0.9387
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

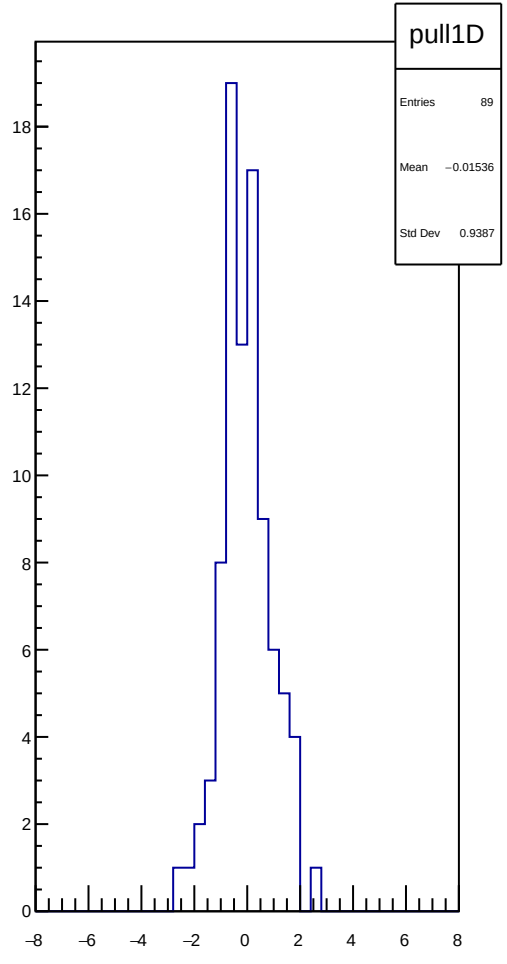

cor_asym_atl_avg_rms vs run
χ² / ndf 222.3 / 88
p0 1582 ± 1.215
1640
1620
1600
1580
1560
1540
1520

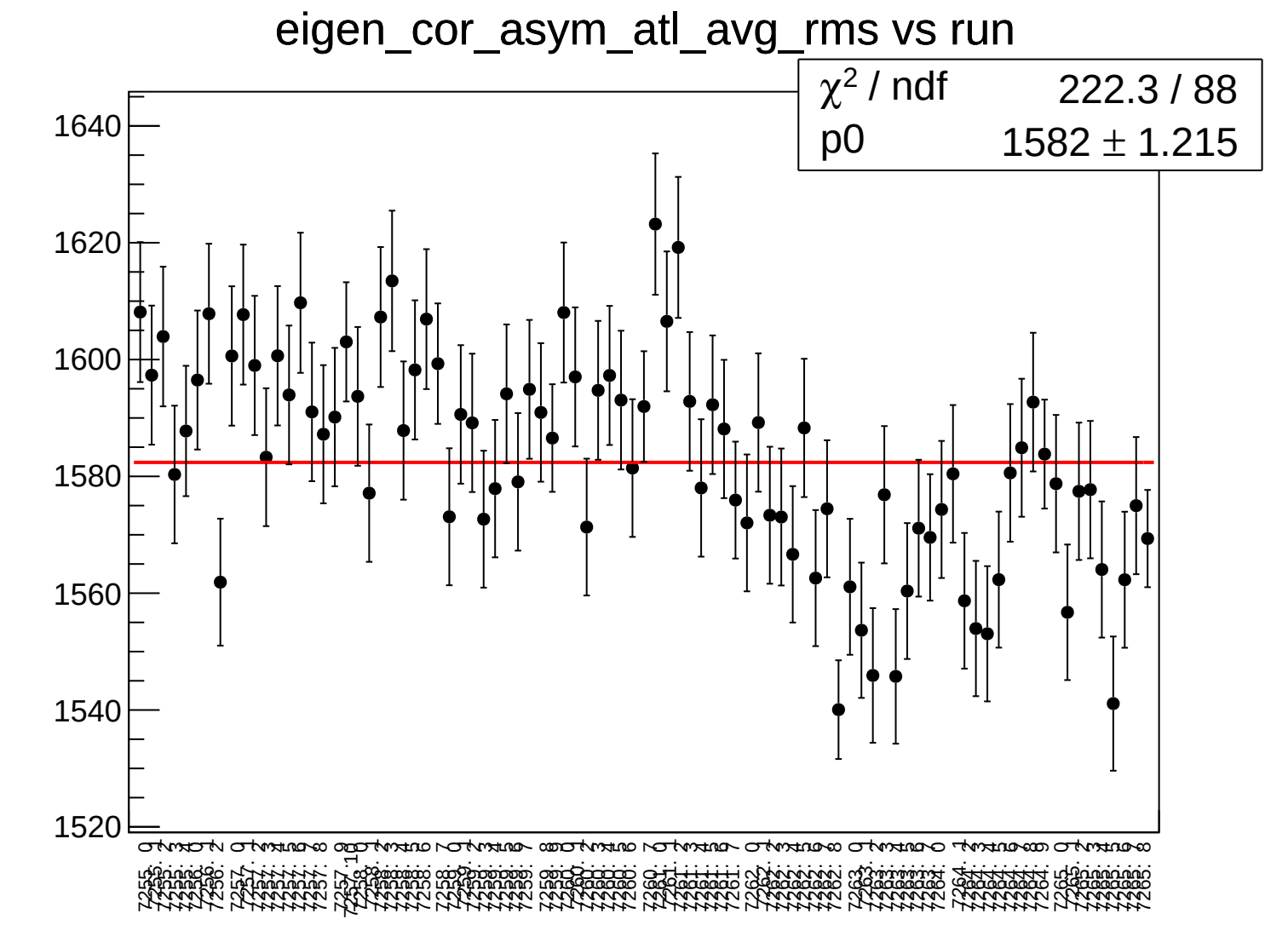

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 85.21 / 88
p0 3191 ± 5030
×10³
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean 1849
Std Dev 0
2
1
0
−1
−2
−3

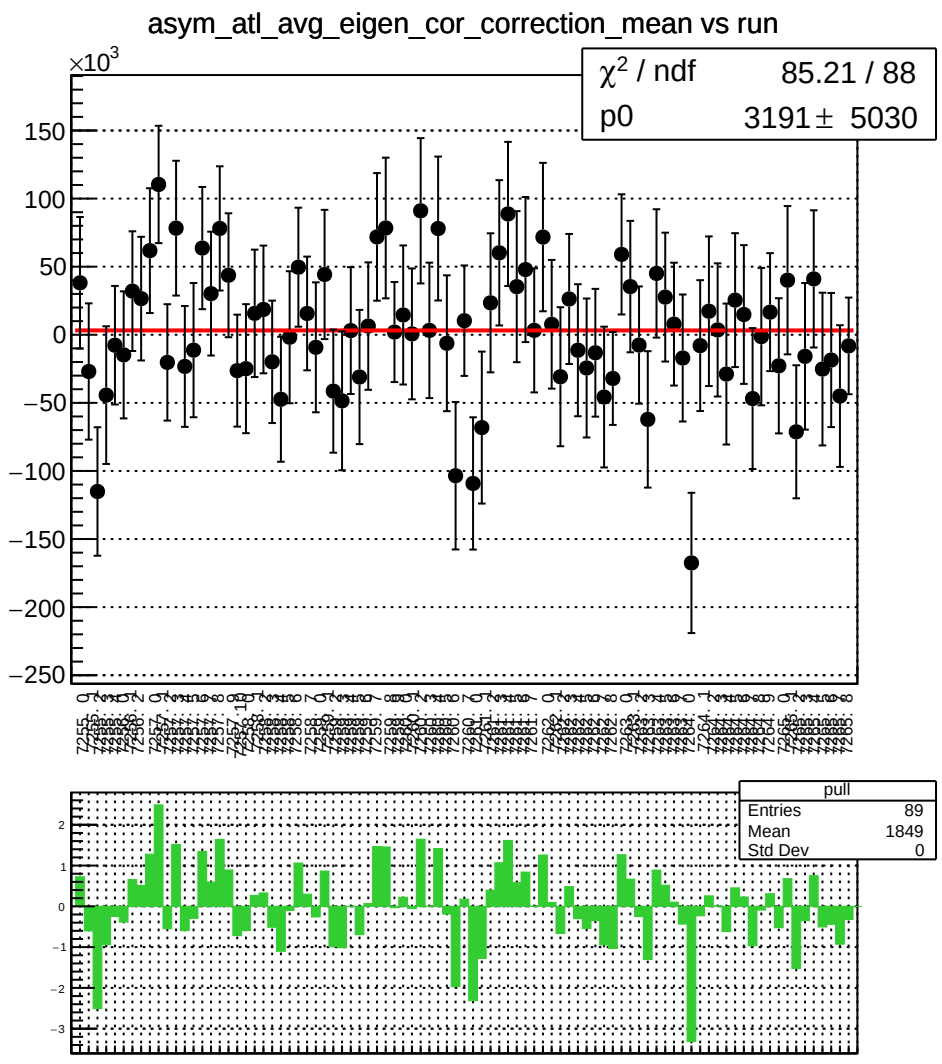

pull1D
Entries 89
Mean −0.002216
Std Dev 0.9785
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

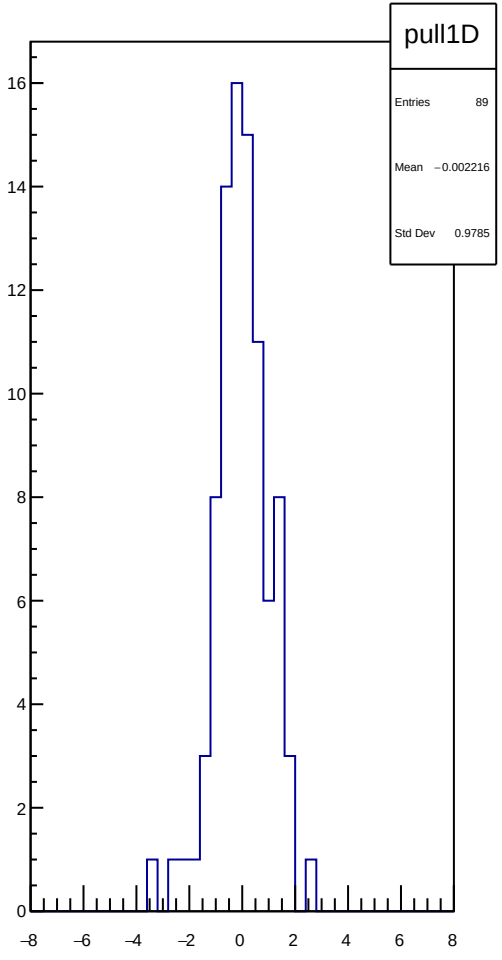

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 7029 / 88
p0 4621 ± 3.557
5400
5200
5000
4800
4600
4400
4200
4000

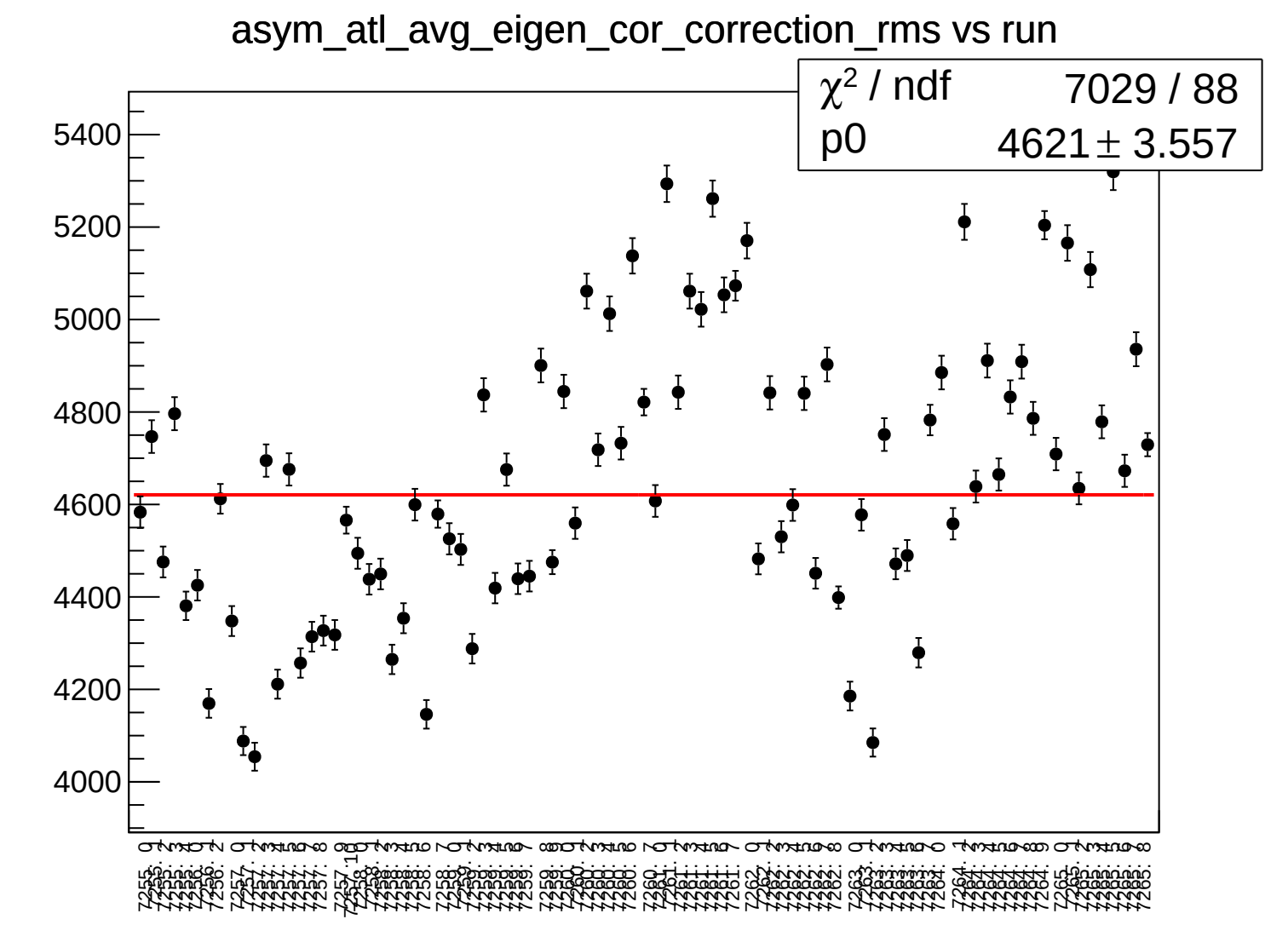

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 78.45 / 88
p0 −1384 ± 1719
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −122.7
Std Dev 0
2
1
0
−1
−2

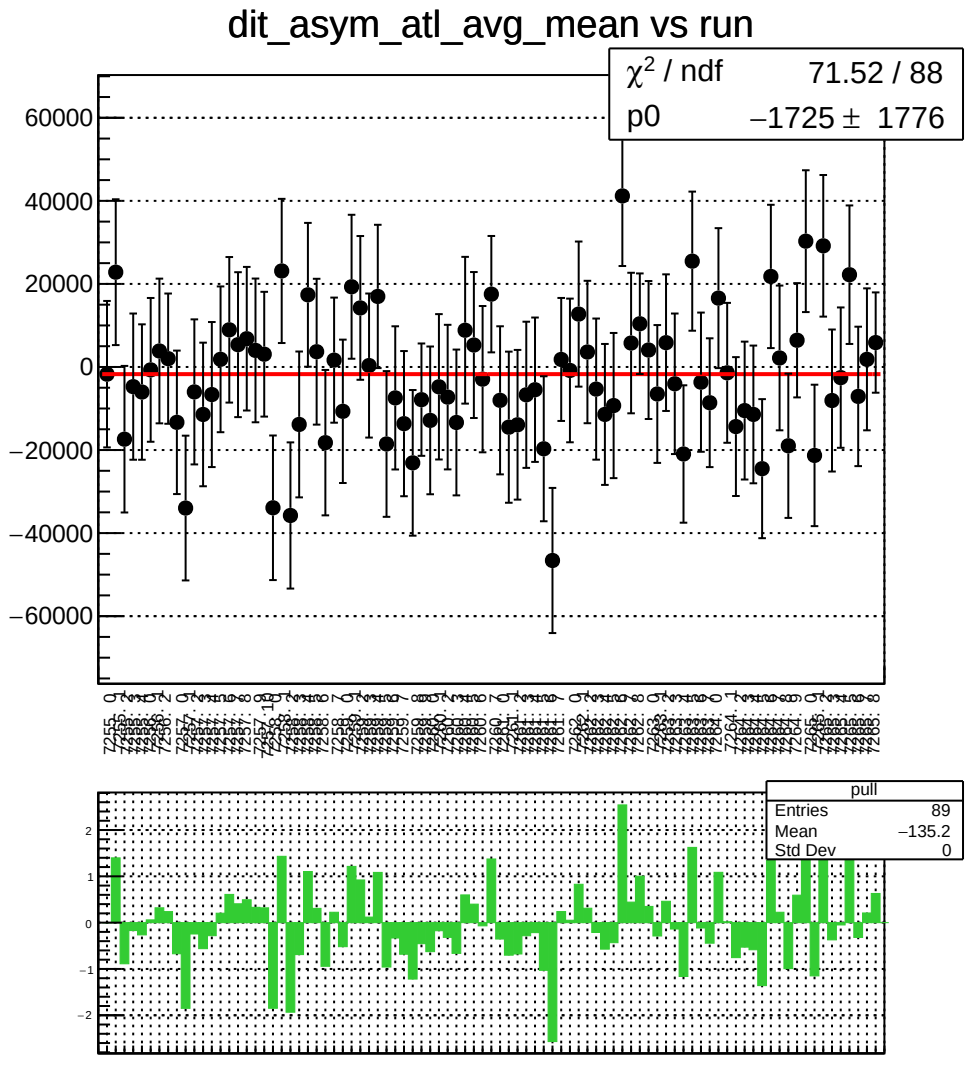

pull1D
Entries 89
Mean −0.01536
Std Dev 0.9387
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

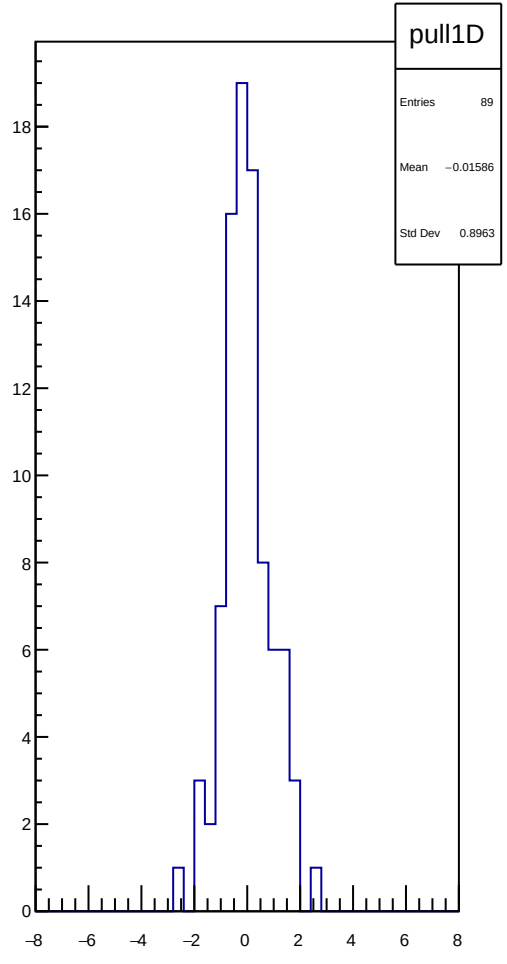

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 222.3 / 88
p0 1582 ± 1.215
1640
1620
1600
1580
1560
1540
1520

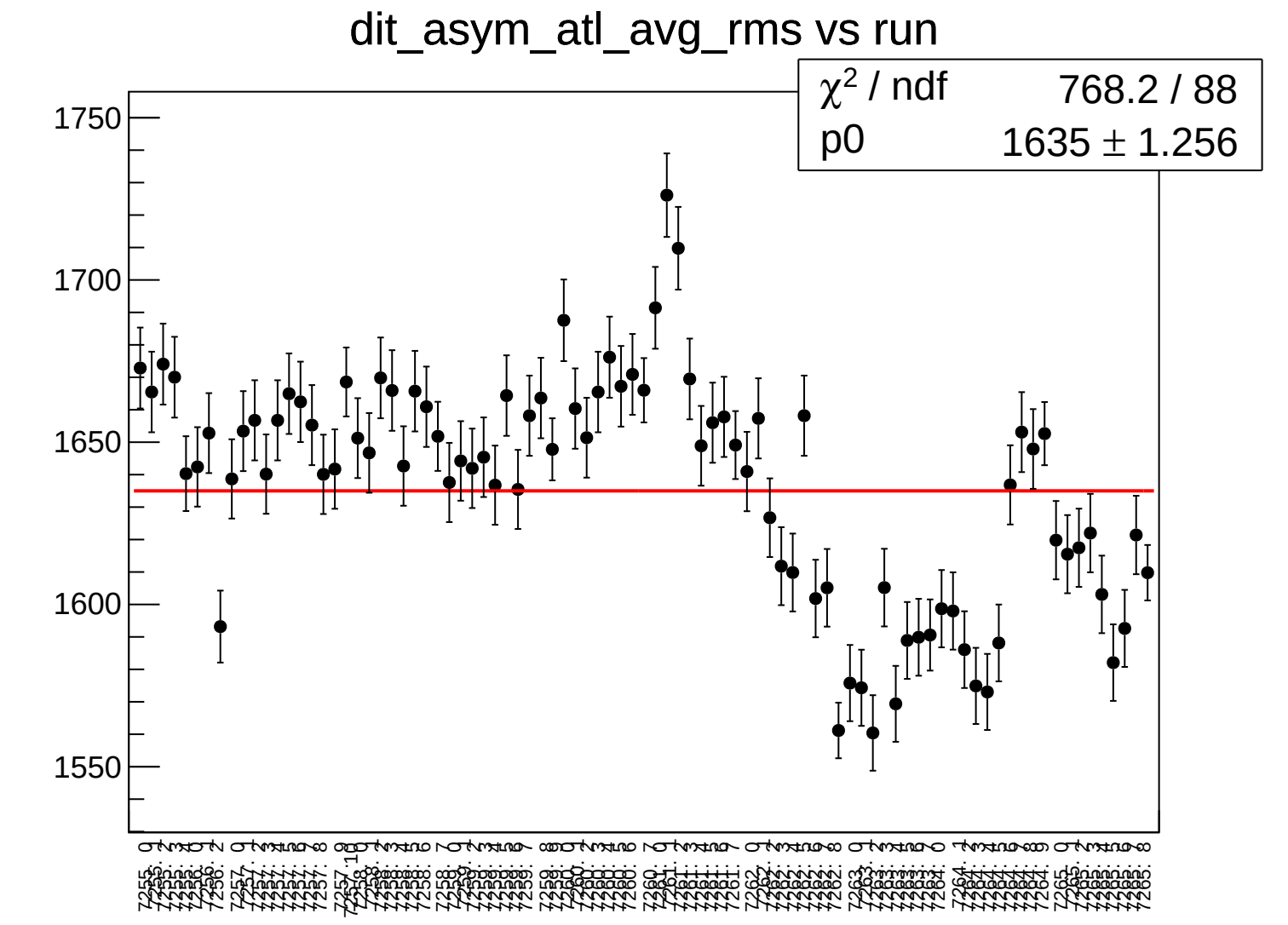

asym_atl_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.21 / 88
p0 3191 ± 5030
×10³
pull
Entries 89
Mean 1849
Std Dev 0

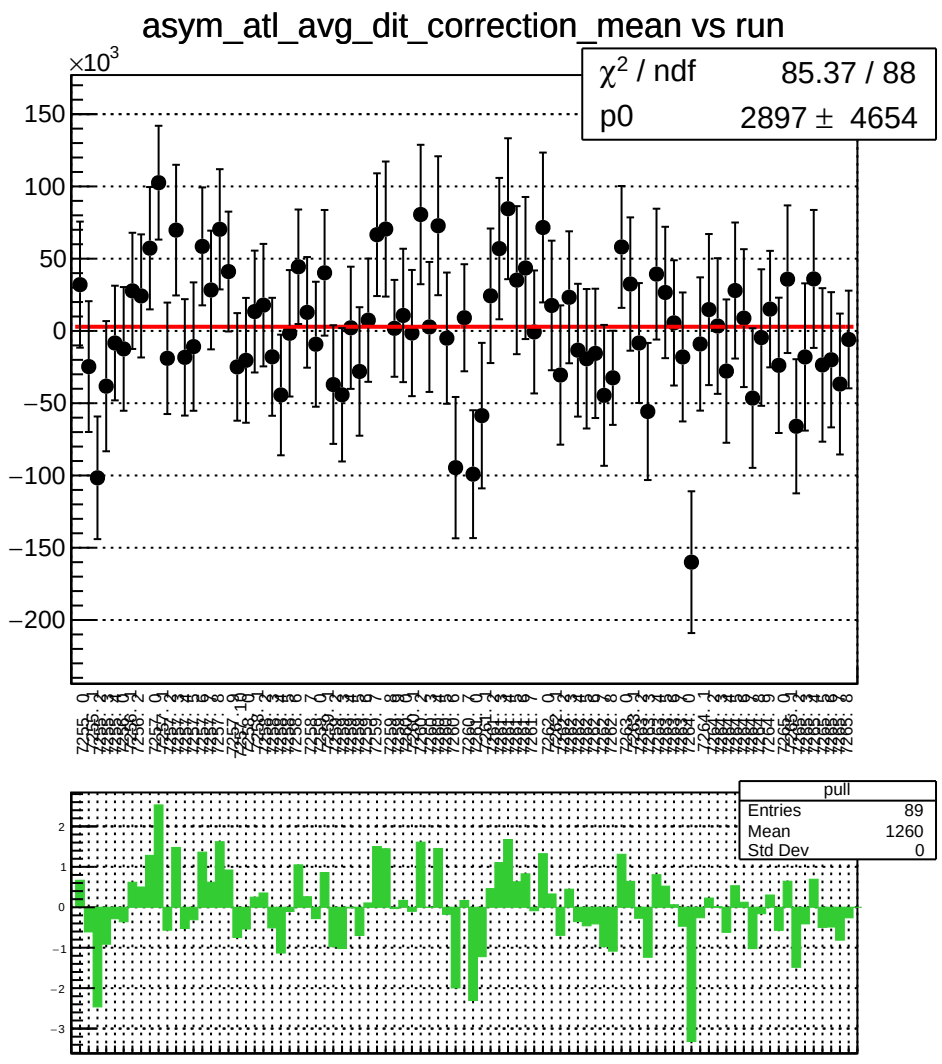

pull1D
Entries 89
Mean −0.002216
Std Dev 0.9785

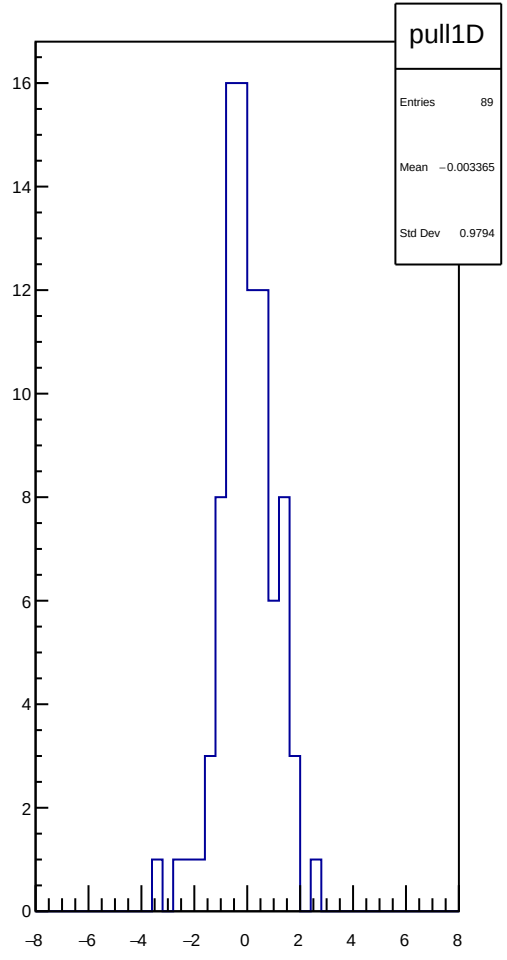

asym_atl_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 7029 / 88
p0 4621 ± 3.557
5400
5200
5000
4800
4600
4400
4200
4000

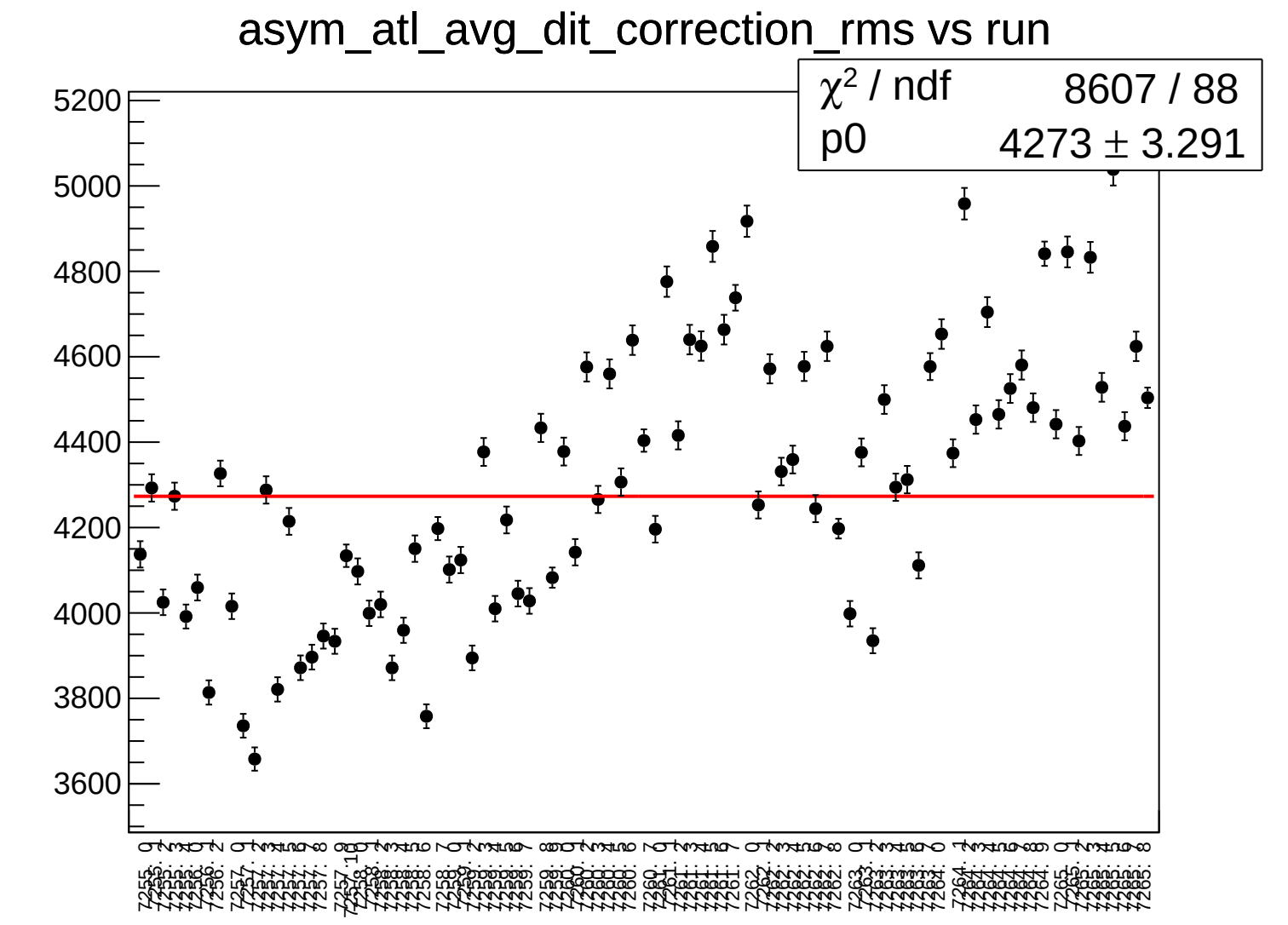

dit_asym_atl_avg_mean vs run
χ² / ndf 71.52 / 88
p0 −1725 ± 1776
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −135.2
Std Dev 0
2
1
0
−1
−2

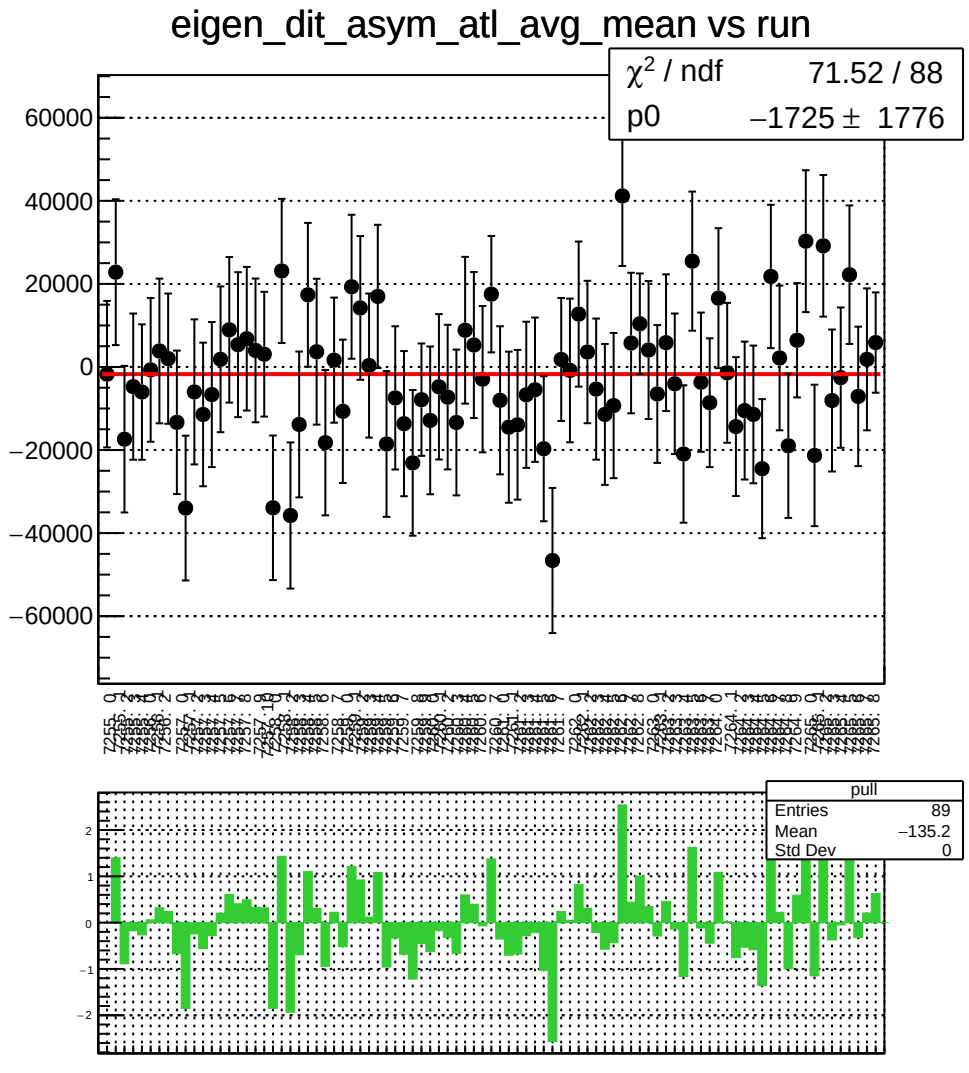

pull1D
Entries 89
Mean −0.01586
Std Dev 0.8963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

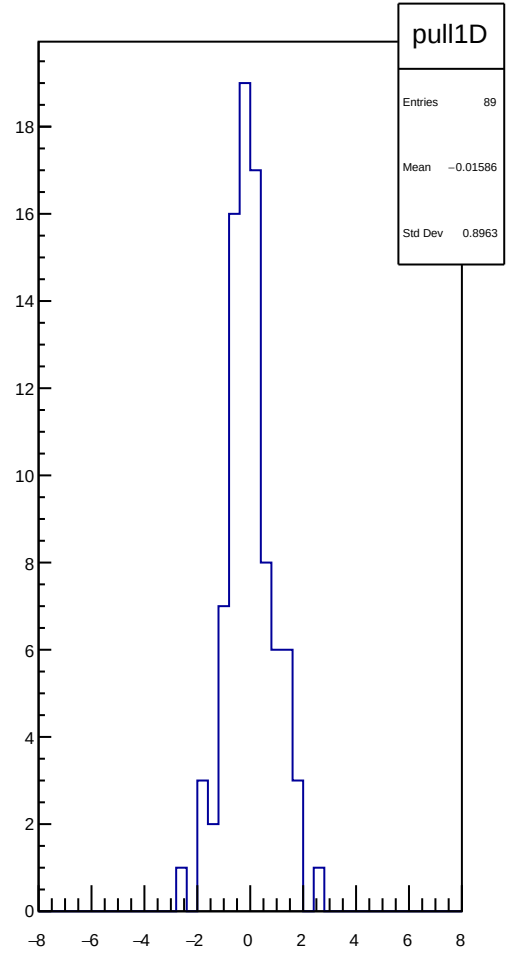

dit_asym_atl_avg_rms vs run
χ² / ndf 768.2 / 88
p0 1635 ± 1.256
1750
1700
1650
1600
1550

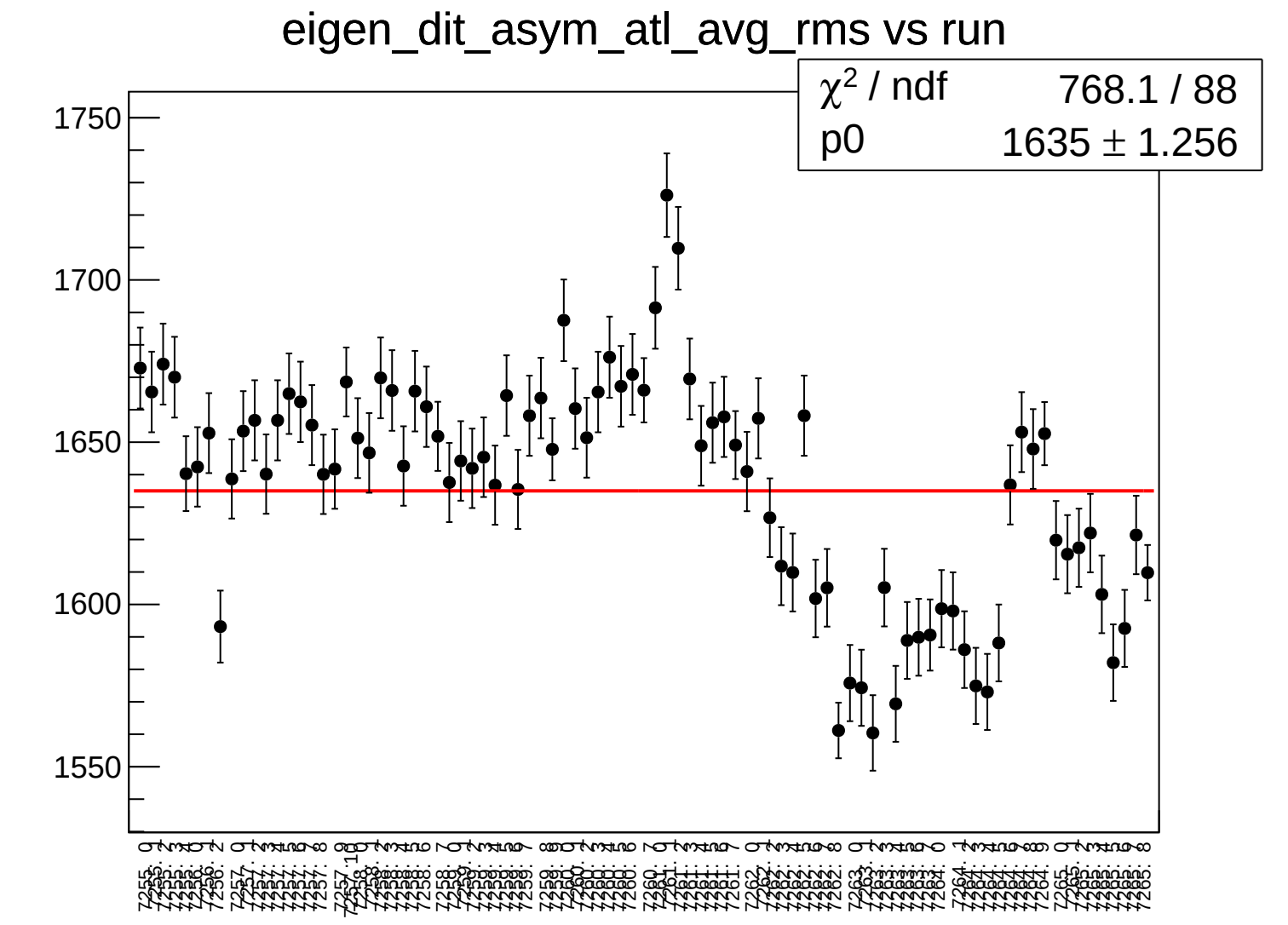

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 85.37 / 88
p0 2897 ± 4654
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 1260
Std Dev 0
2
1
0
−1
−2
−3

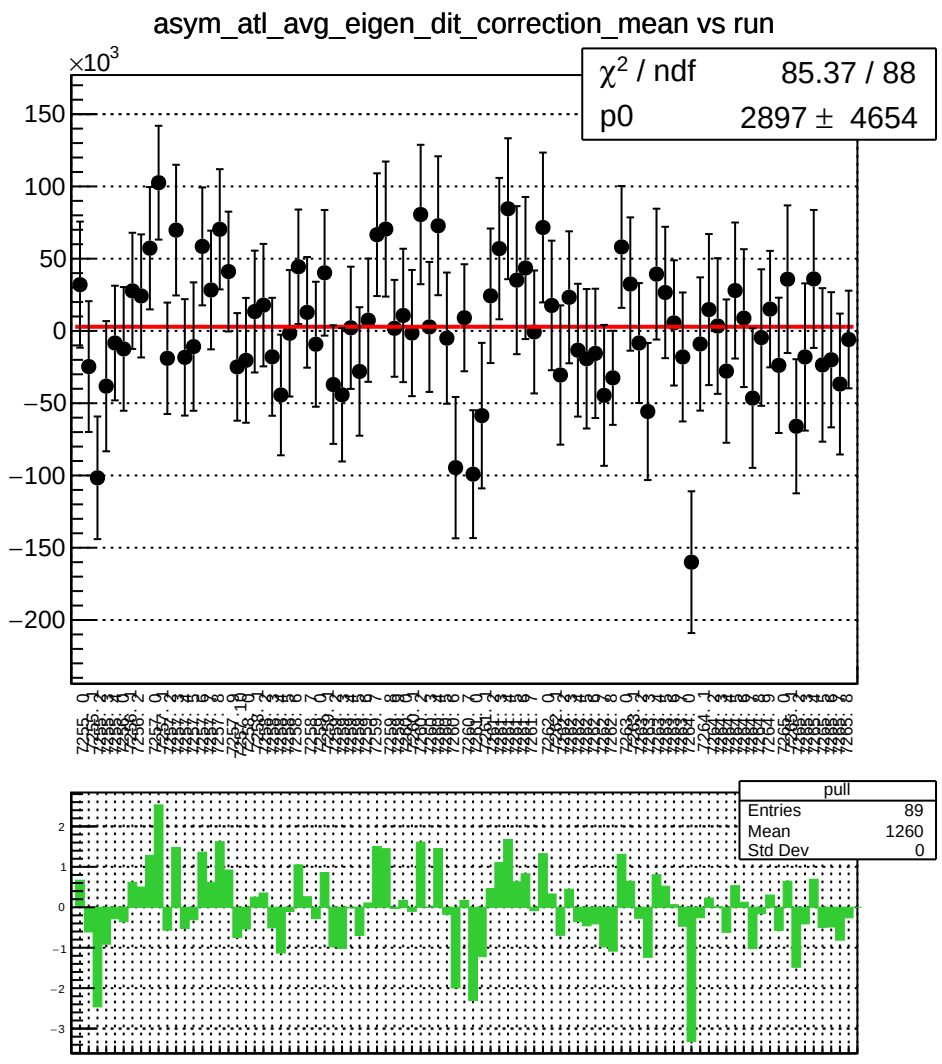

pull1D
Entries 89
Mean −0.003365
Std Dev 0.9794
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

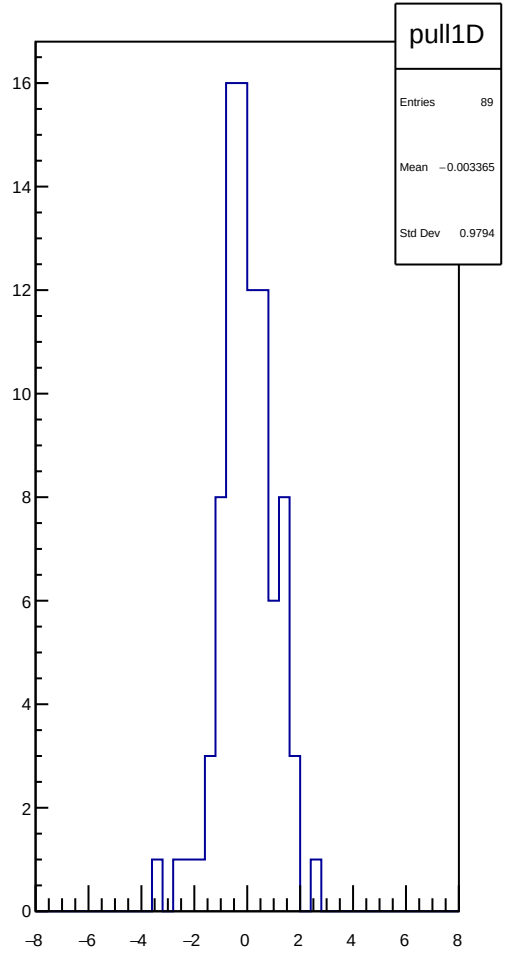

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 8607 / 88
p0 4273 ± 3.291
5200
5000
4800
4600
4400
4200
4000
3800
3600

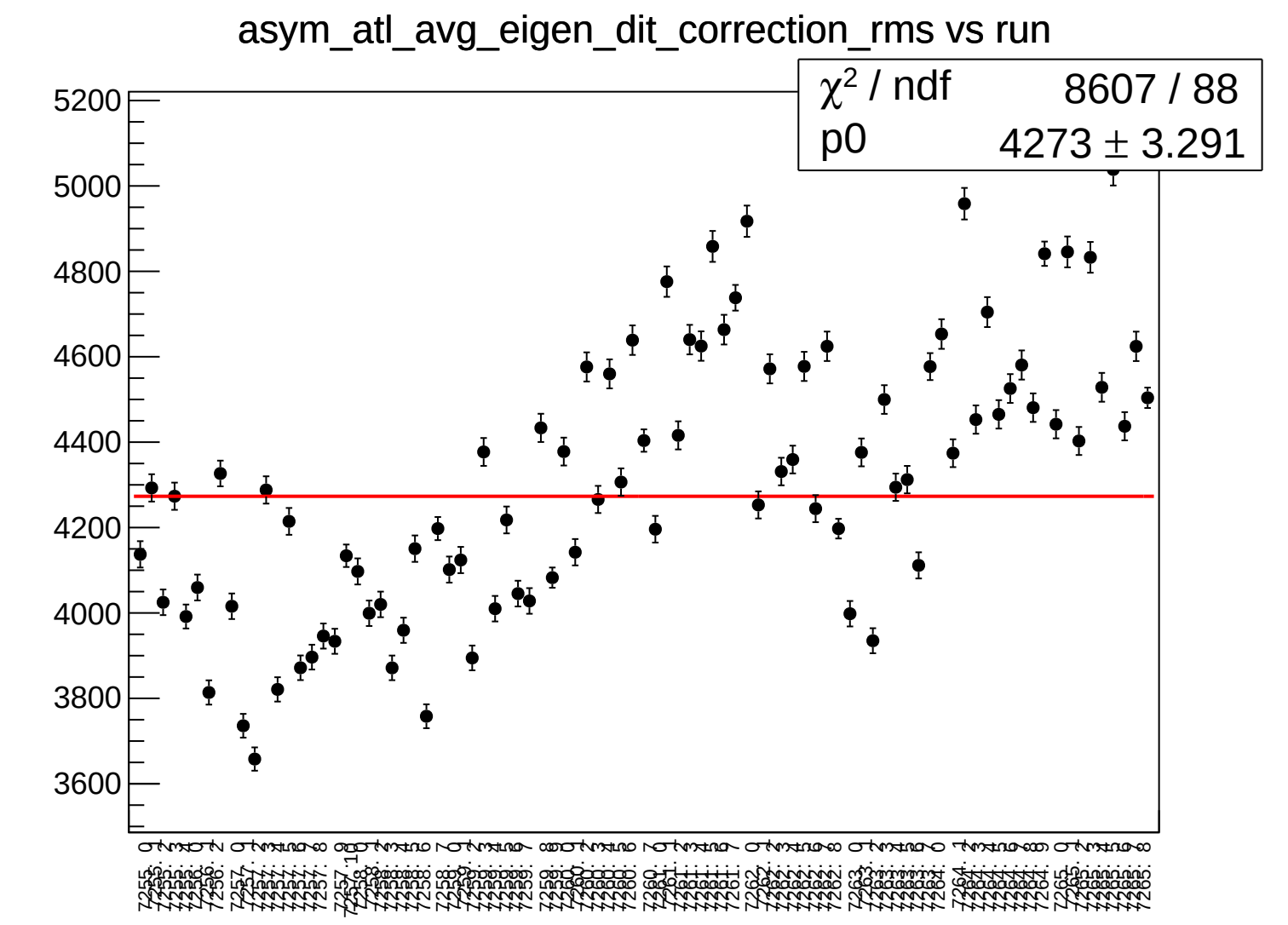

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 71.52 / 88
p0 −1725 ± 1776
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −135.2
Std Dev 0
2
1
0
−1
−2

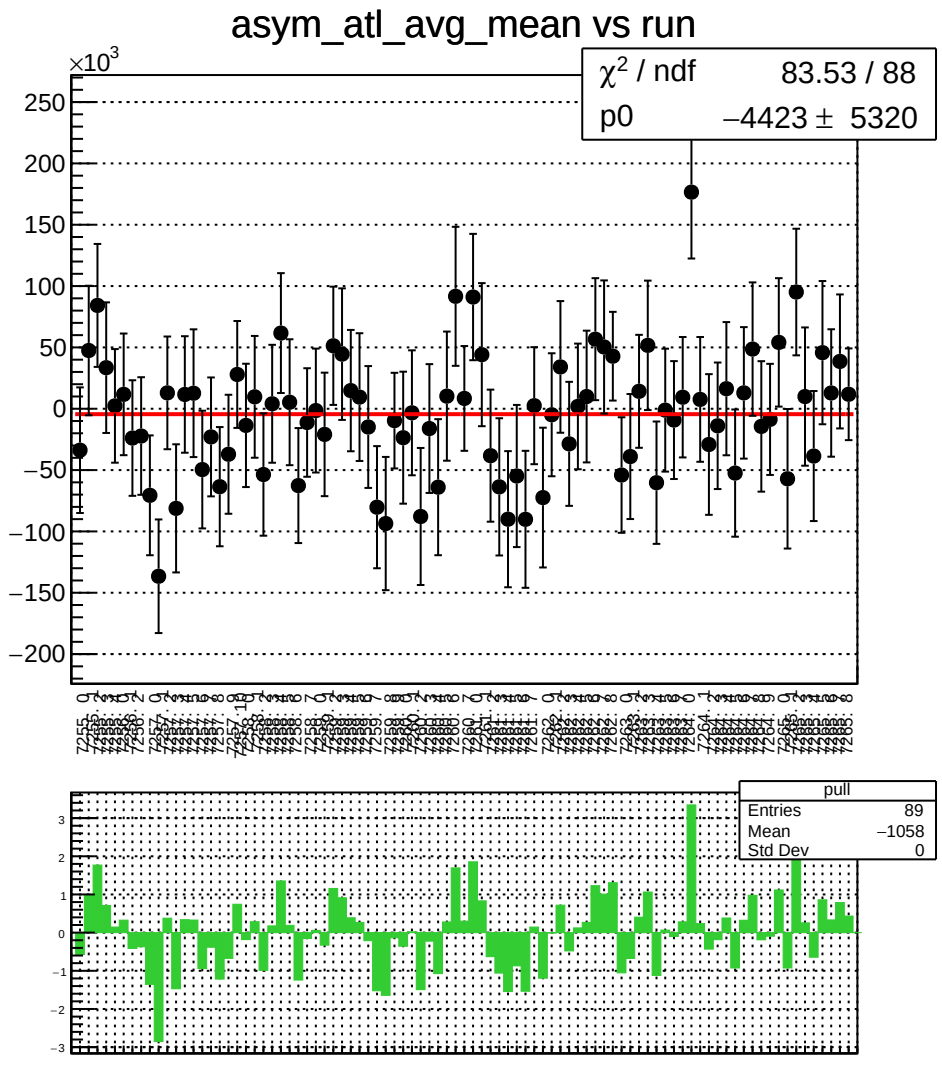

pull1D
Entries 89
Mean −0.01586
Std Dev 0.8963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

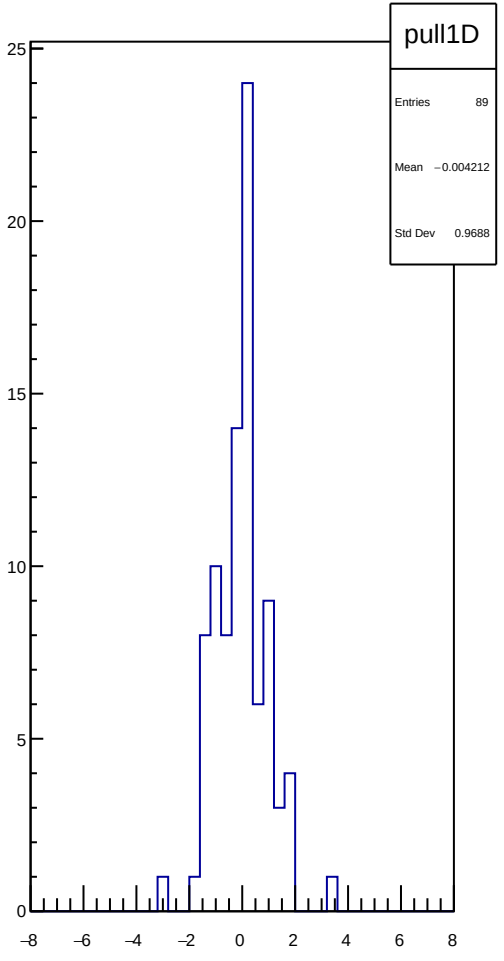

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 768.1 / 88
p0 1635 ± 1.256
1750
1700
1650
1600
1550

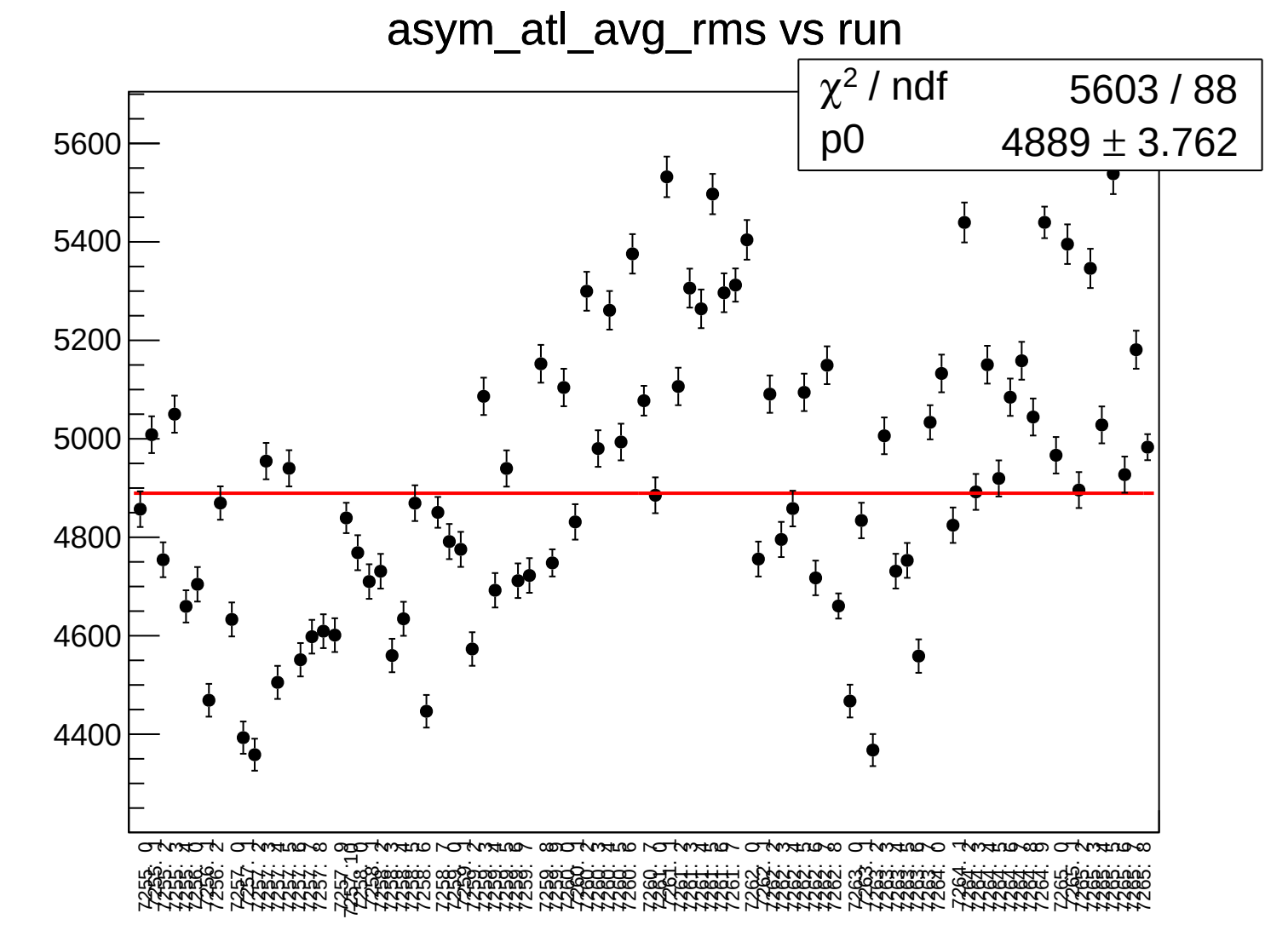

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.37 / 88
p0 2897 ± 4654
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 1260
Std Dev 0
2
1
0
−1
−2
−3

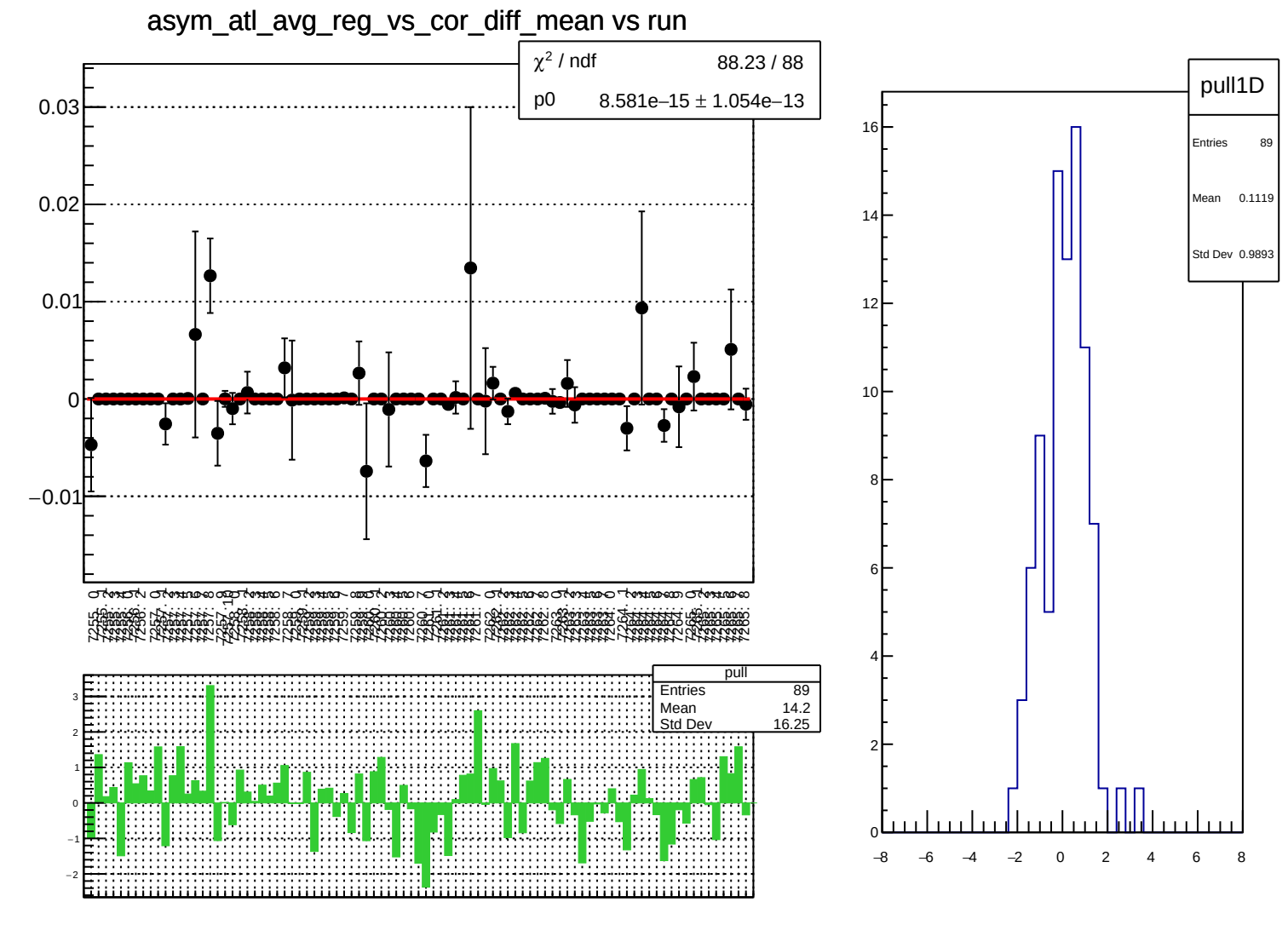

pull1D
Entries 89
Mean −0.003365
Std Dev 0.9794
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

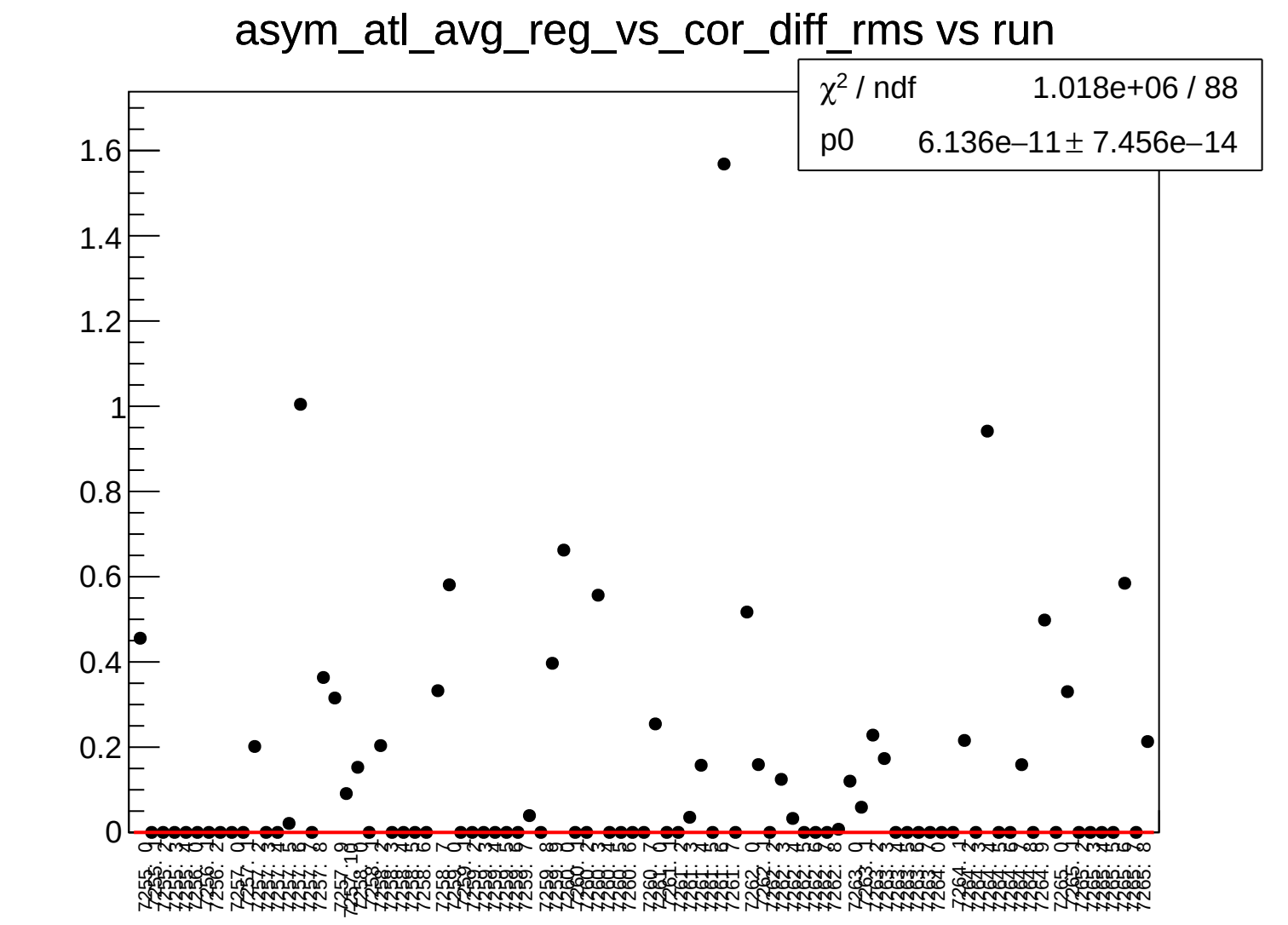

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 8607 / 88
p0 4273 ± 3.291
5200
5000
4800
4600
4400
4200
4000
3800
3600

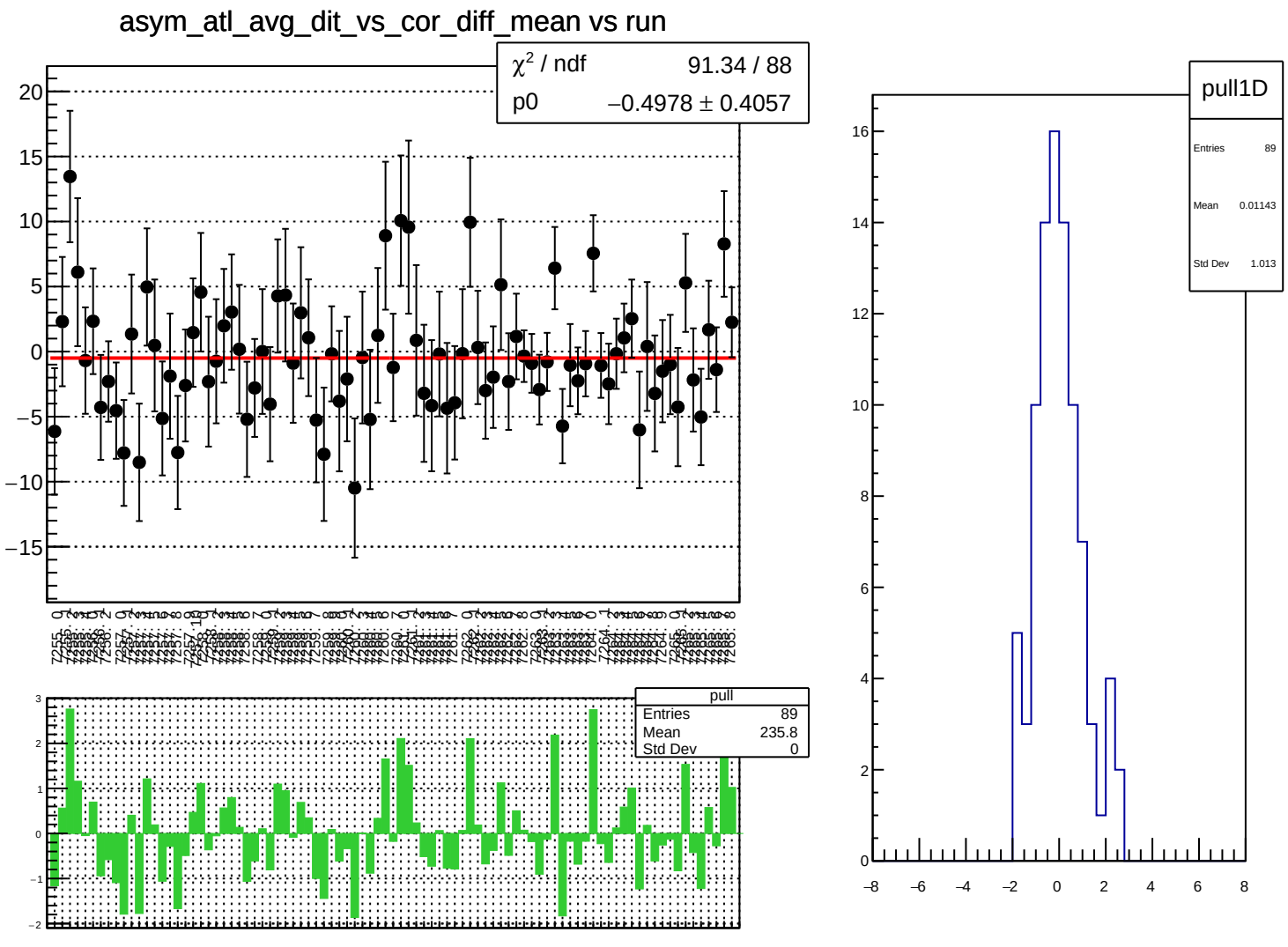

asym_atl_avg_mean vs run
×10^3
χ² / ndf 83.53 / 88
p0 −4423 ± 5320
pull
Entries 89
Mean −1058
Std Dev 0

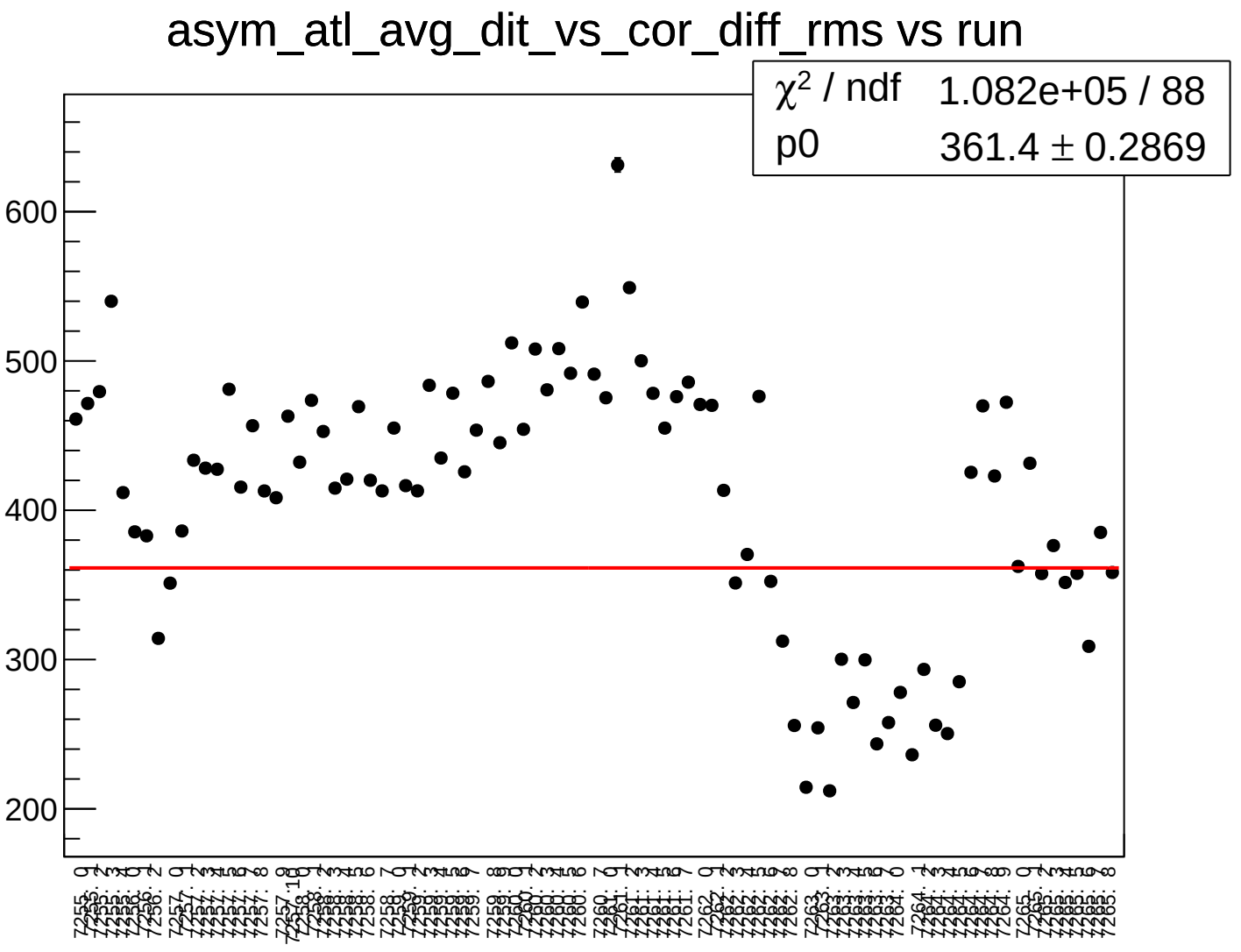

pull1D
Entries 89
Mean −0.004212
Std Dev 0.9688

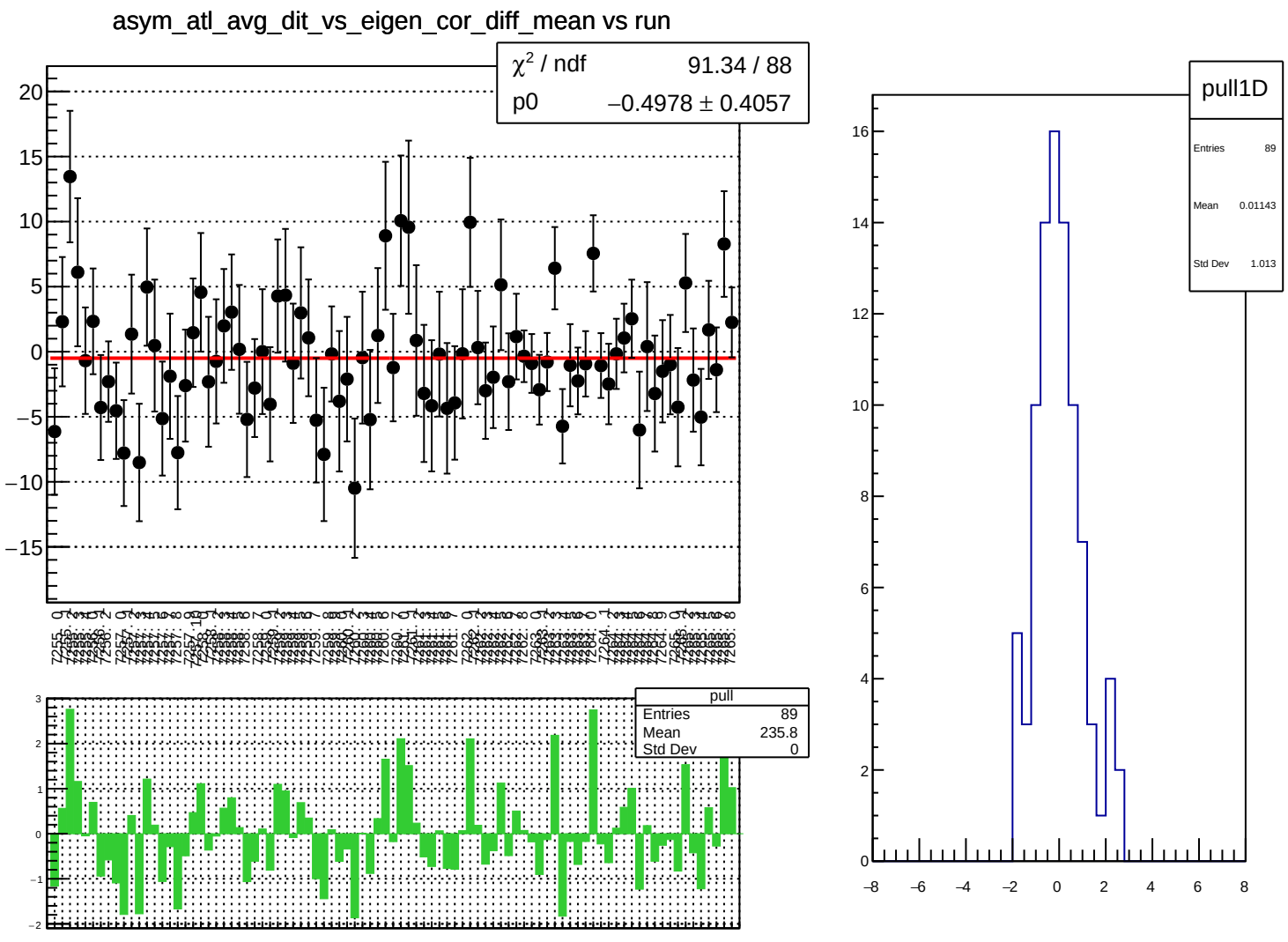

asym_atl_avg_rms vs run
χ² / ndf 5603 / 88
p0 4889 ± 3.762
5600
5400
5200
5000
4800
4600
4400

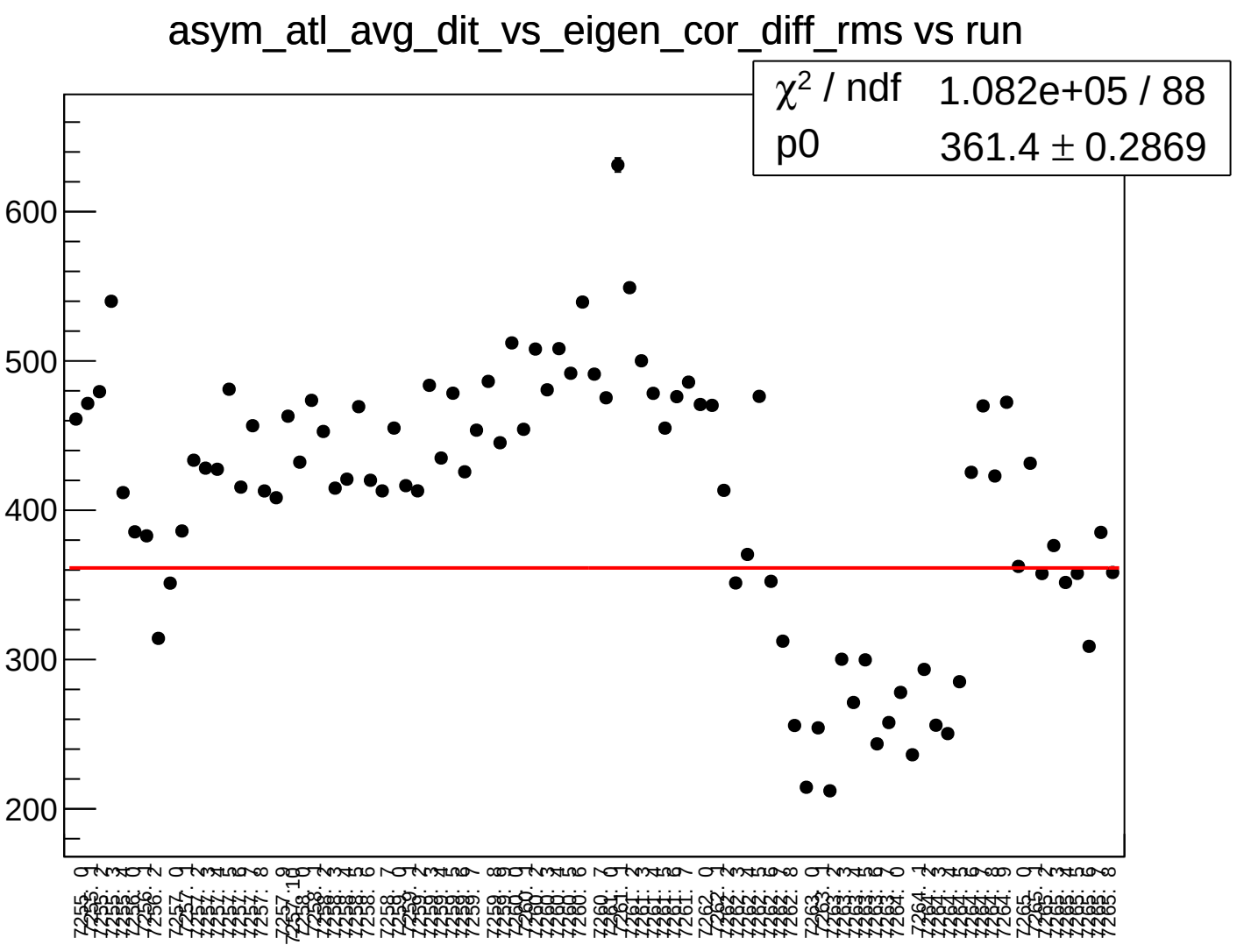

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.23 / 88
p0 8.581e−15 ± 1.054e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 89
Mean 14.2
Std Dev 16.25
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.1119
Std Dev 0.9893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

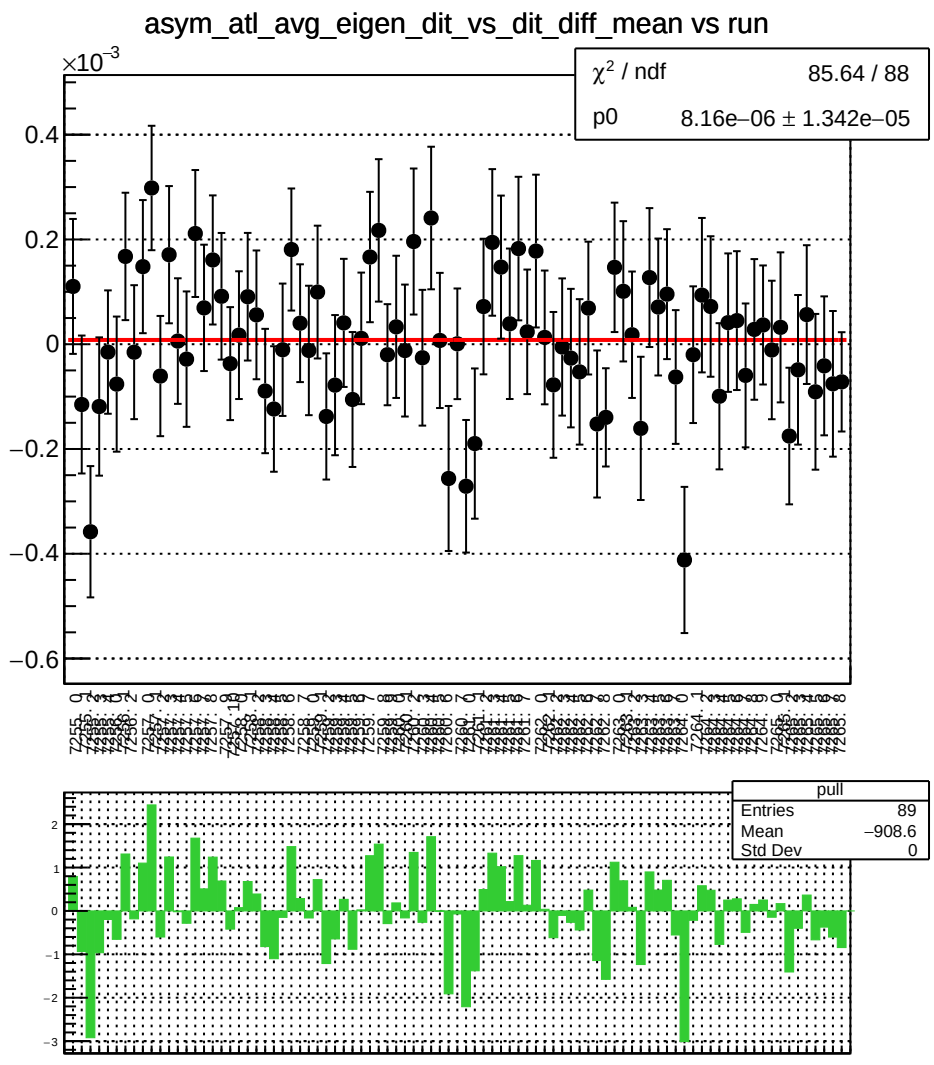

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.018e+06 / 88
p0 6.136e−11 ± 7.456e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

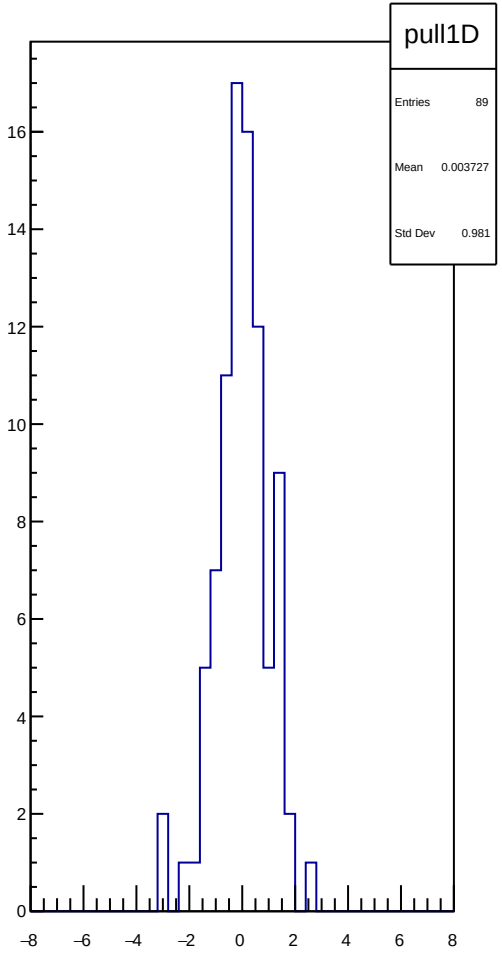

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.34 / 88
p0 −0.4978 ± 0.4057
pull
Entries 89
Mean 235.8
Std Dev 0
pull1D
Entries 89
Mean 0.01143
Std Dev 1.013

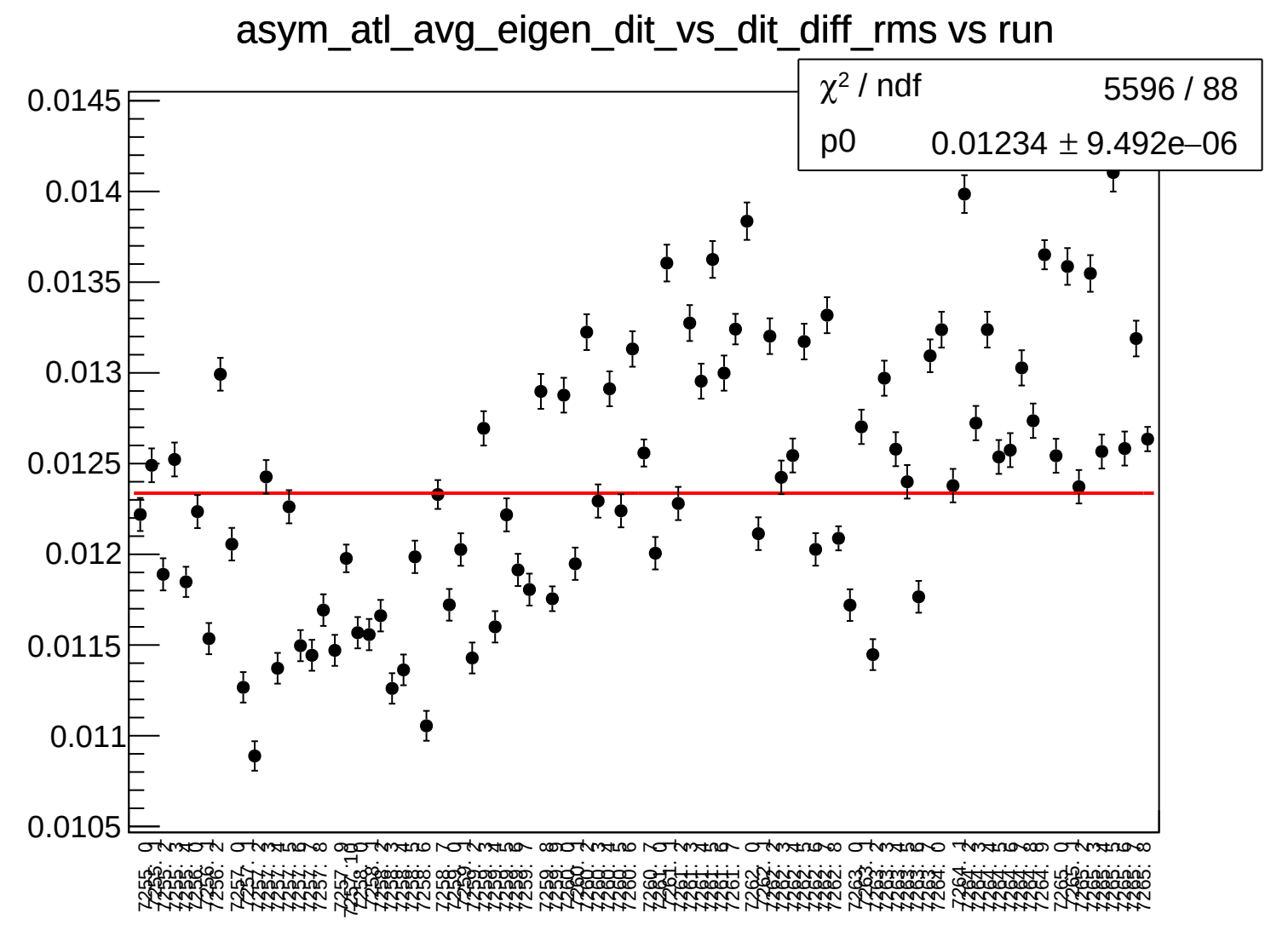

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.082e+05 / 88
p0 361.4 ± 0.2869
600
500
400
300
200

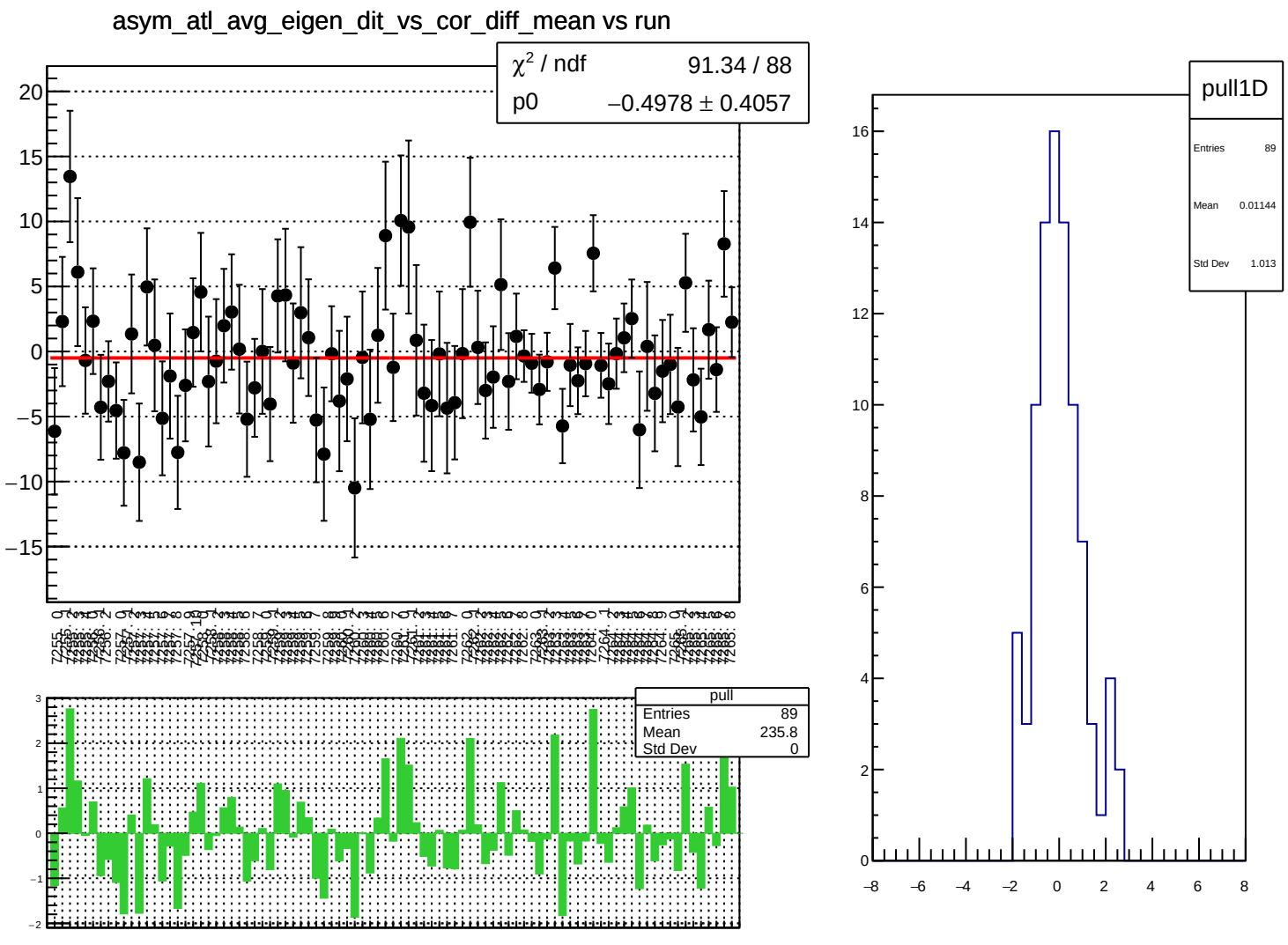

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.34 / 88
p0 −0.4978 ± 0.4057
pull
Entries 89
Mean 235.8
Std Dev 0
pull1D
Entries 89
Mean 0.01143
Std Dev 1.013

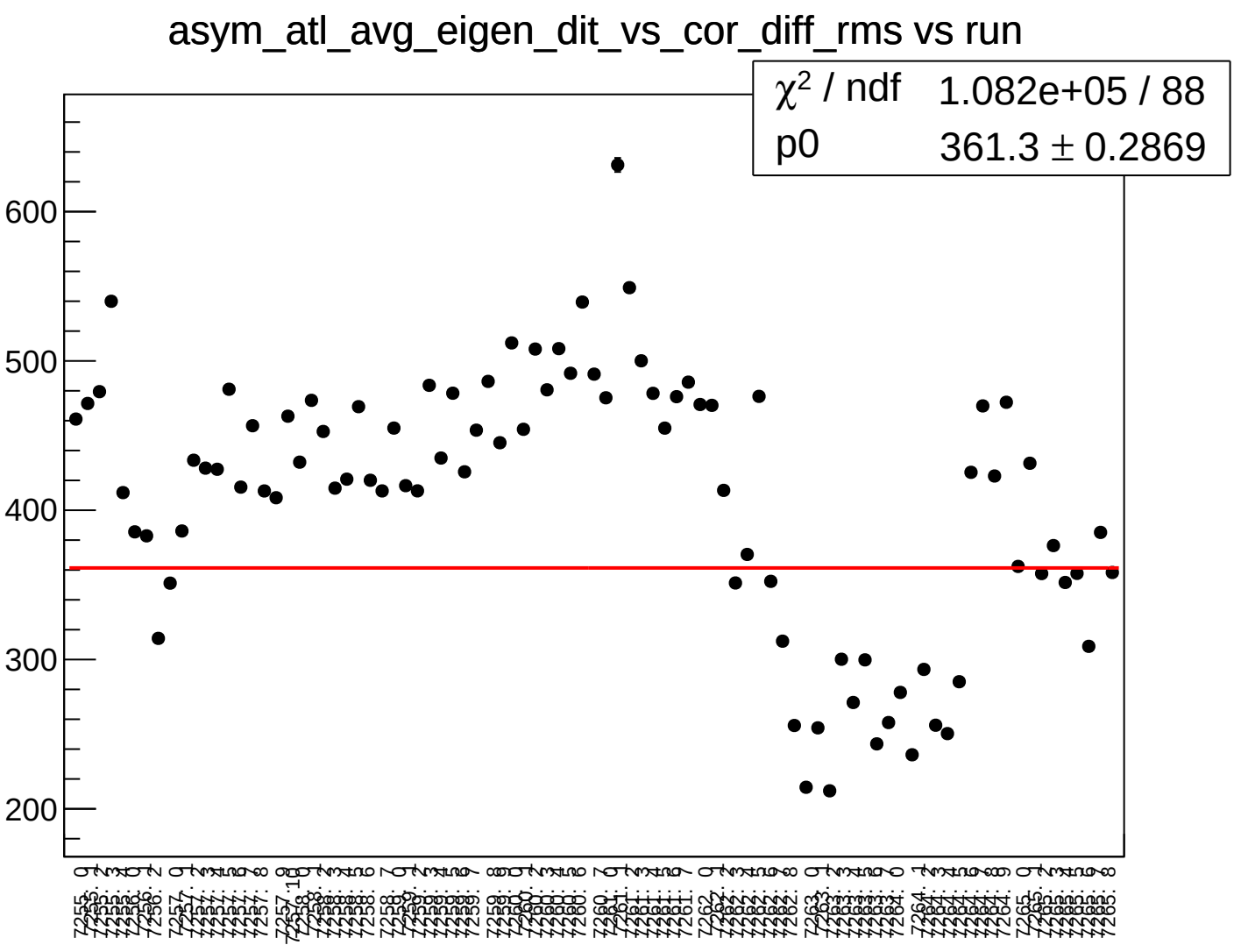

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.082e+05 / 88
p0 361.4 ± 0.2869
600
500
400
300
200

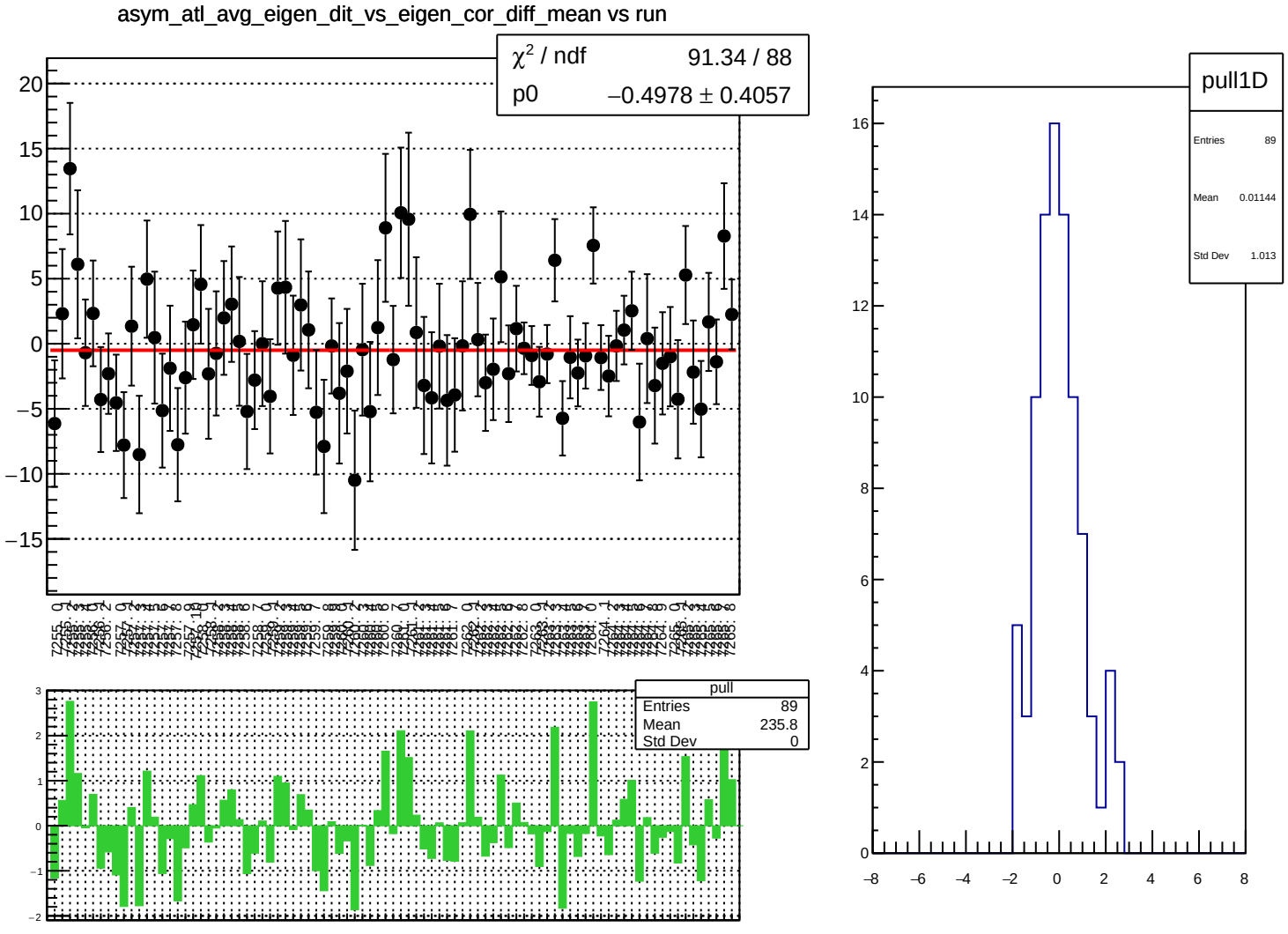

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.64 / 88
p0 8.16e−06 ± 1.342e−05
pull
Entries 89
Mean −908.6
Std Dev 0

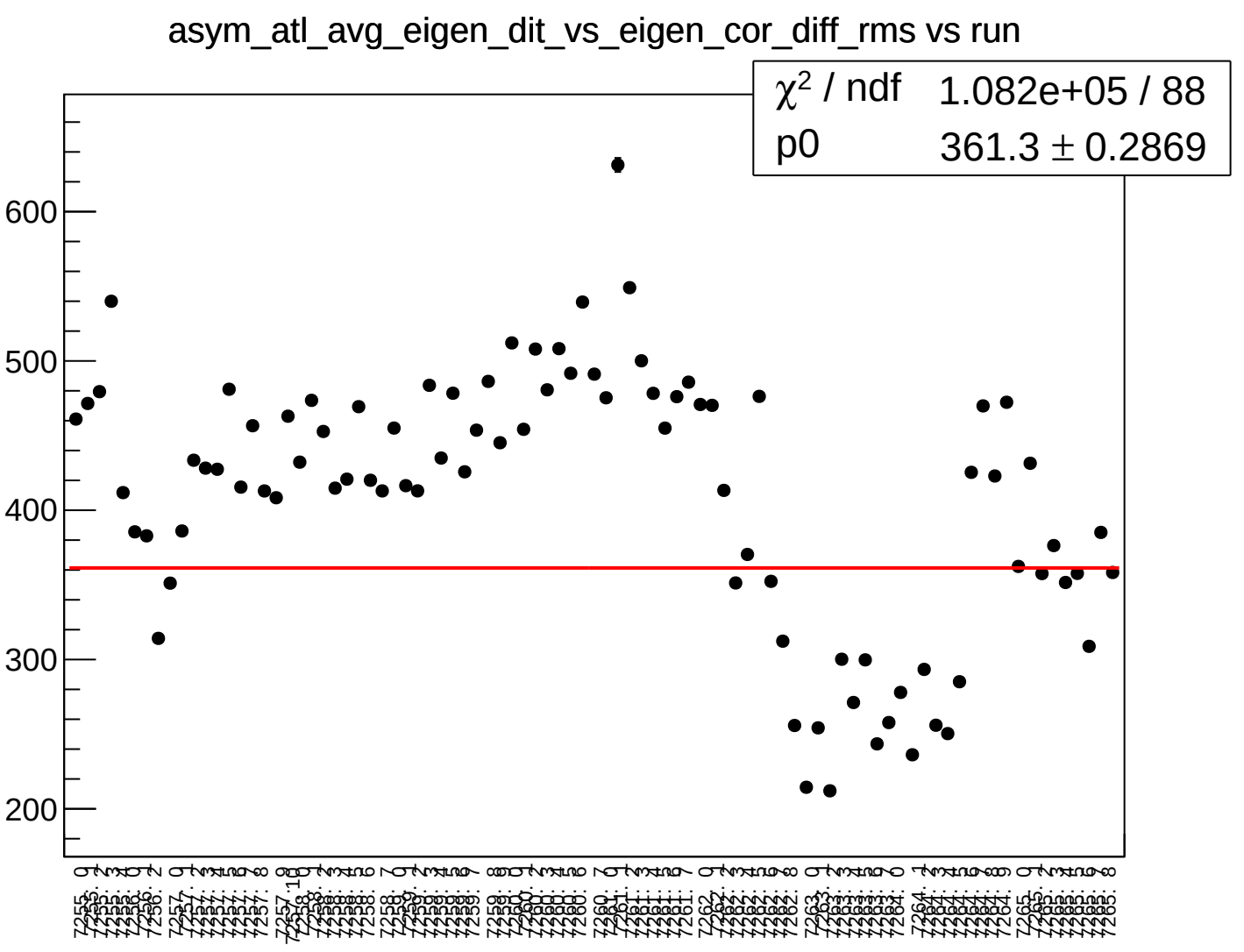

pull1D
Entries 89
Mean 0.003727
Std Dev 0.981

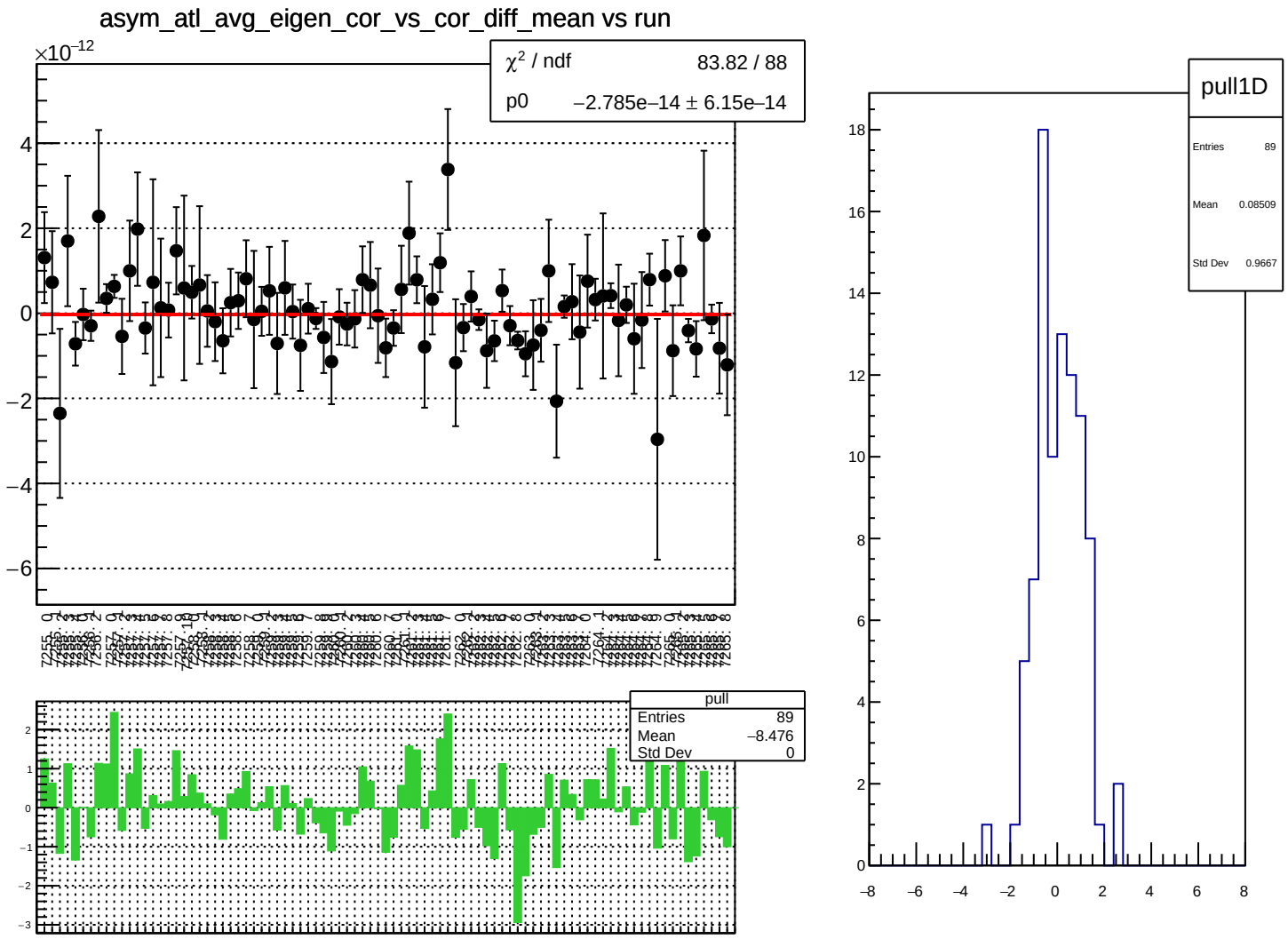

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5596 / 88
p0 0.01234 ± 9.492e−06
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105

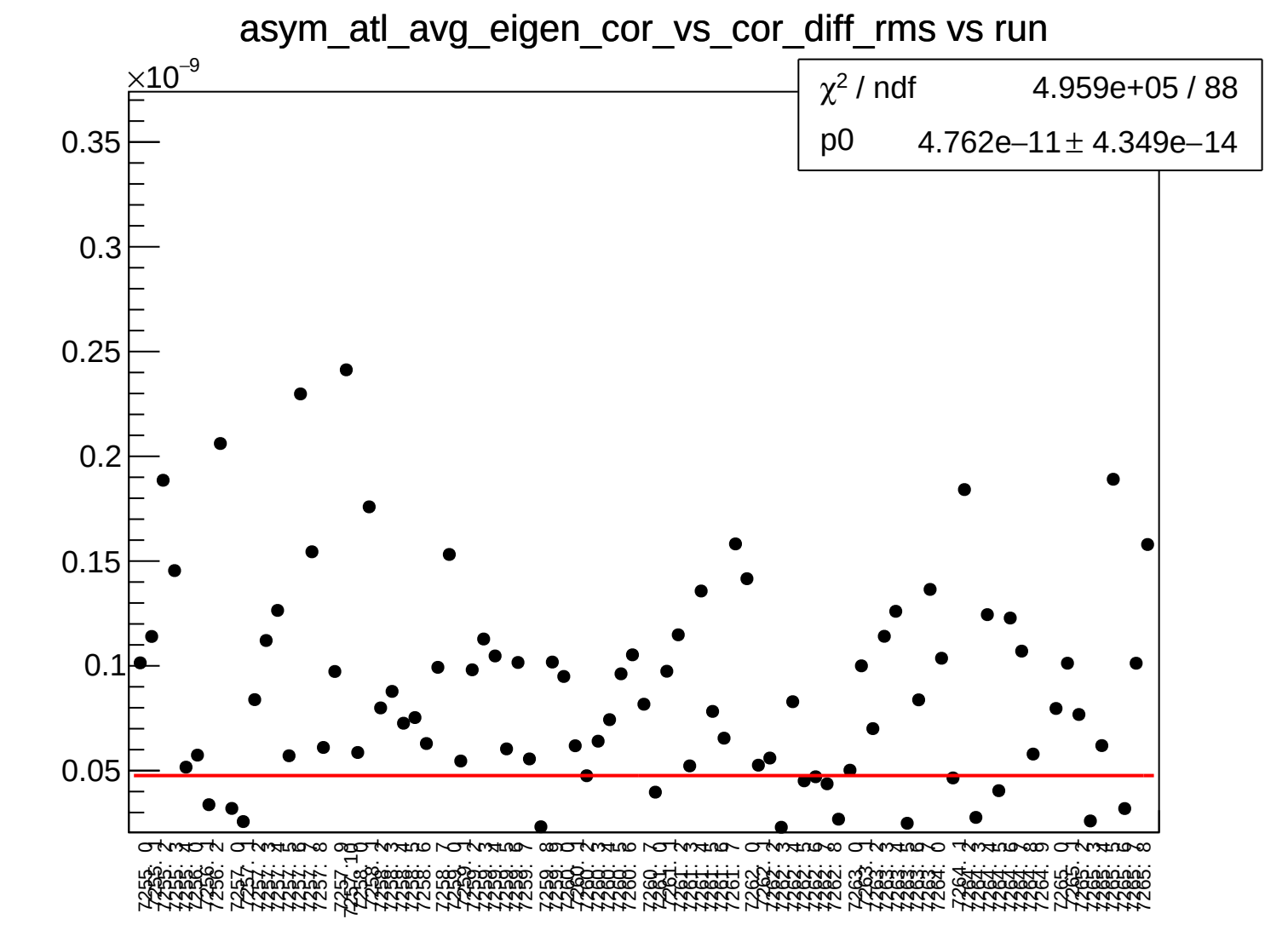

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.34 / 88
p0 −0.4978 ± 0.4057
pull
Entries 89
Mean 235.8
Std Dev 0
pull1D
Entries 89
Mean 0.01144
Std Dev 1.013

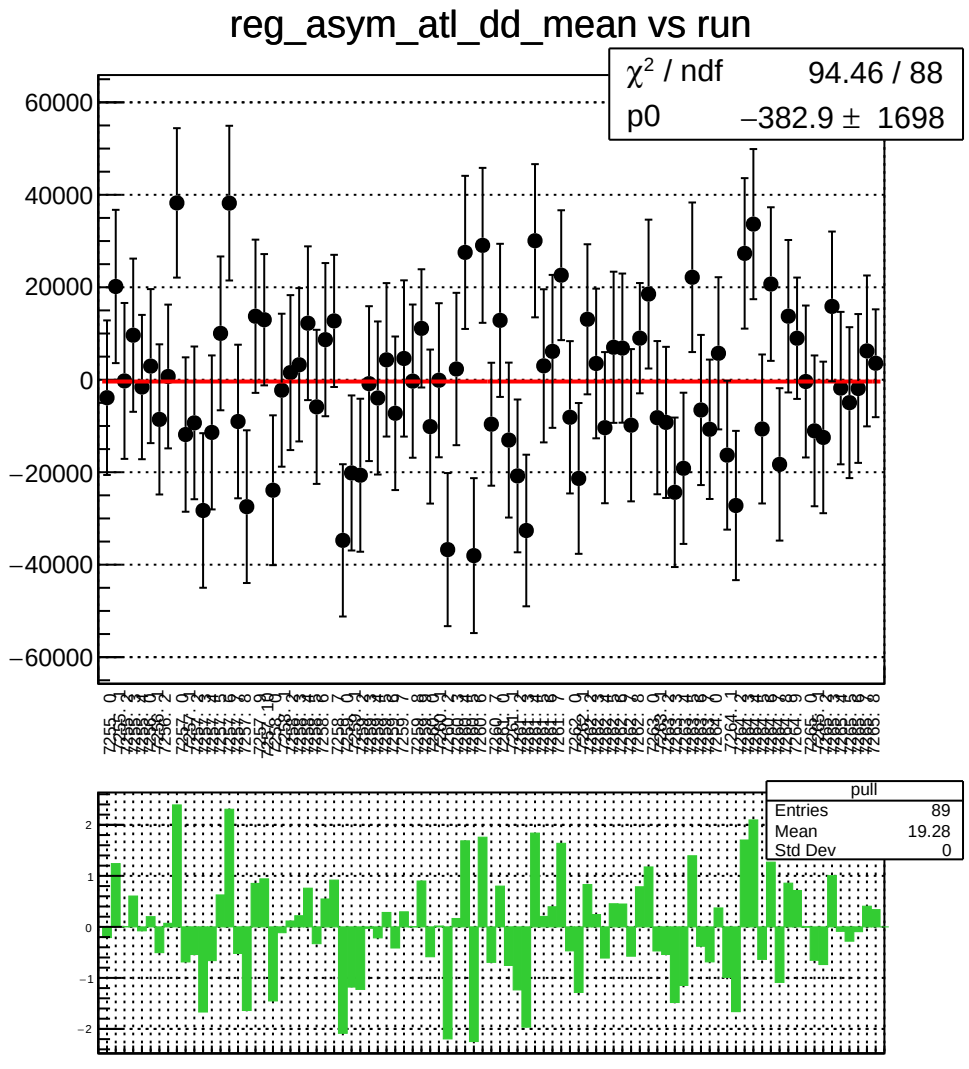

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.082e+05 / 88
p0 361.3 ± 0.2869
600
500
400
300
200

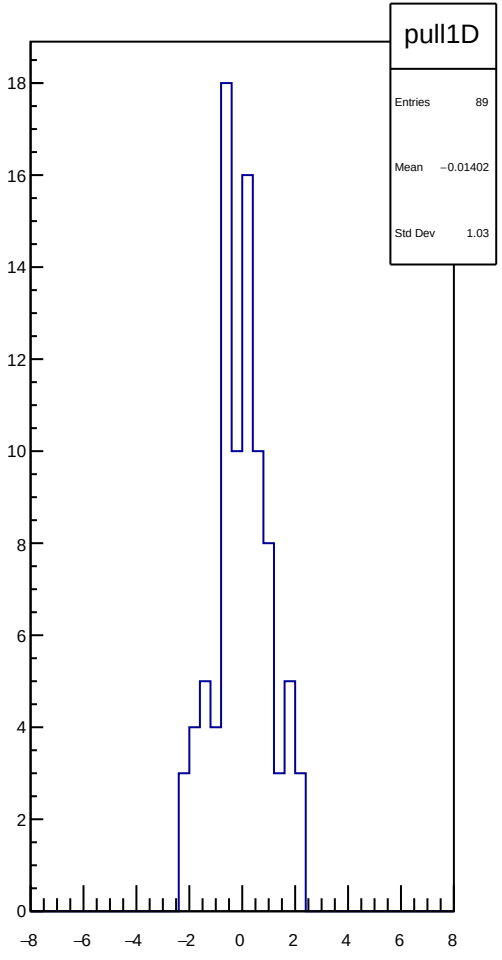

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.34 / 88
p0 −0.4978 ± 0.4057
pull
Entries 89
Mean 235.8
Std Dev 0
pull1D
Entries 89
Mean 0.01144
Std Dev 1.013

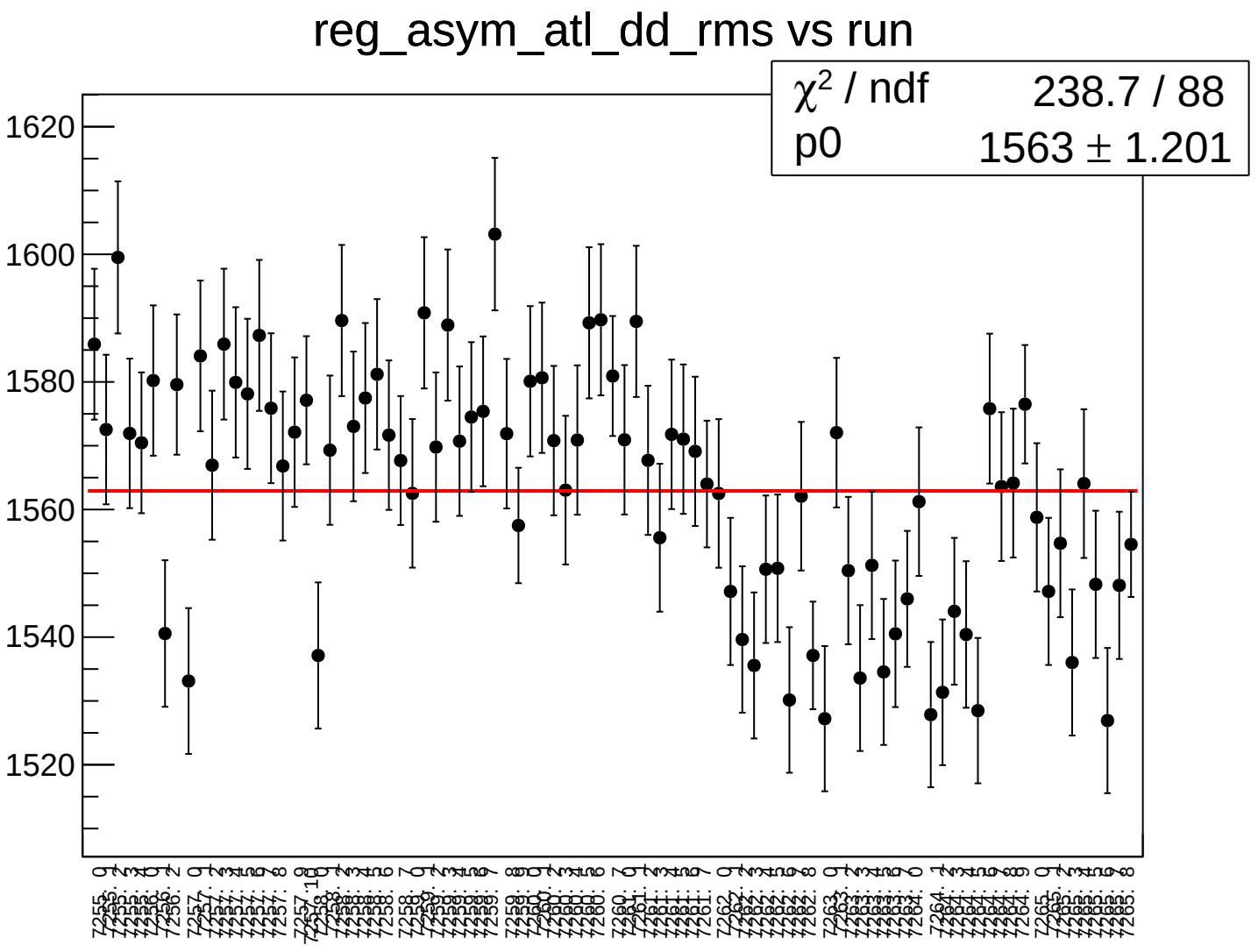

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.082e+05 / 88
p0 361.3 ± 0.2869
600
500
400
300
200

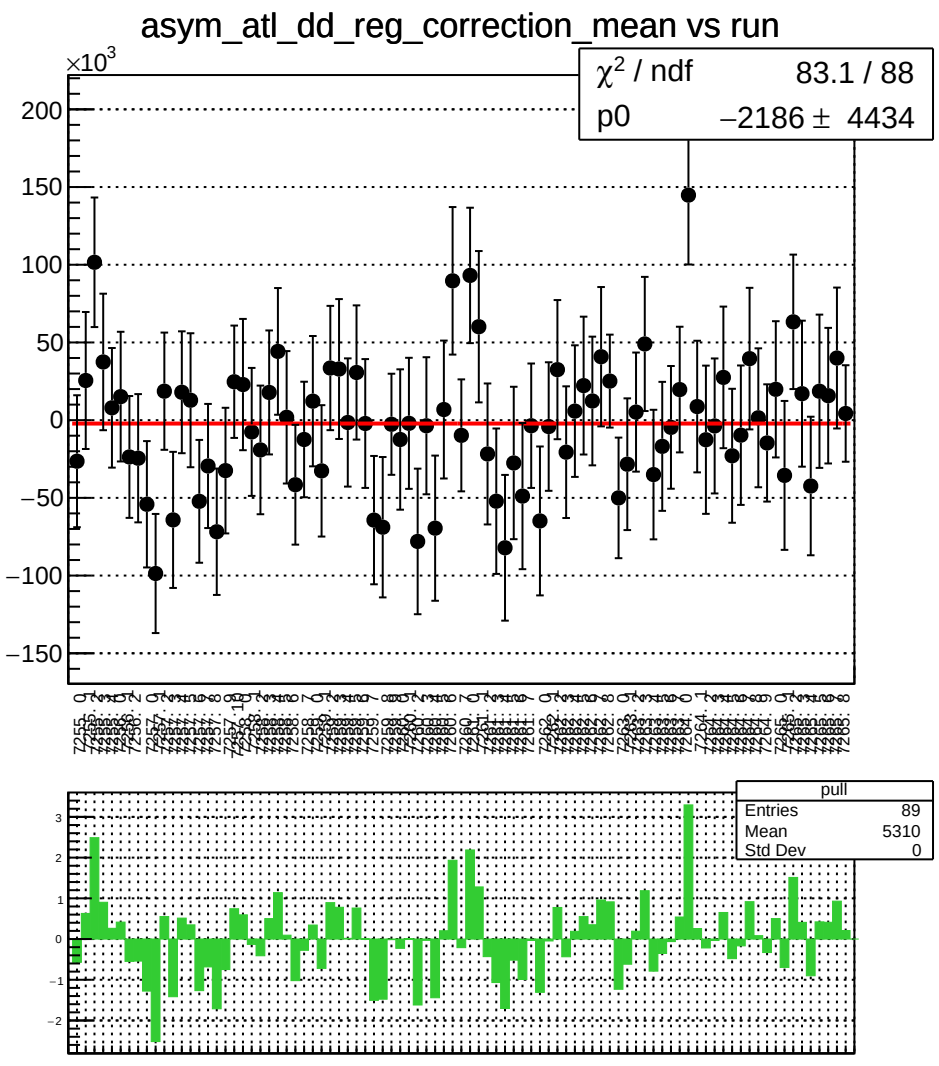

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.82 / 88
p0 −2.785e−14 ± 6.15e−14
pull
Entries 89
Mean −8.476
Std Dev 0
pull1D
Entries 89
Mean 0.08509
Std Dev 0.9667

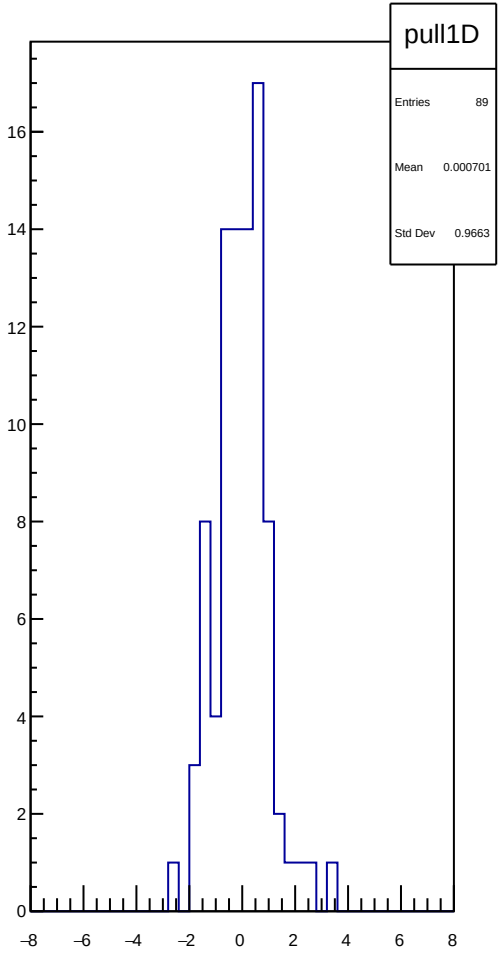

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.959e+05 / 88
p0 4.762e−11 ± 4.349e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

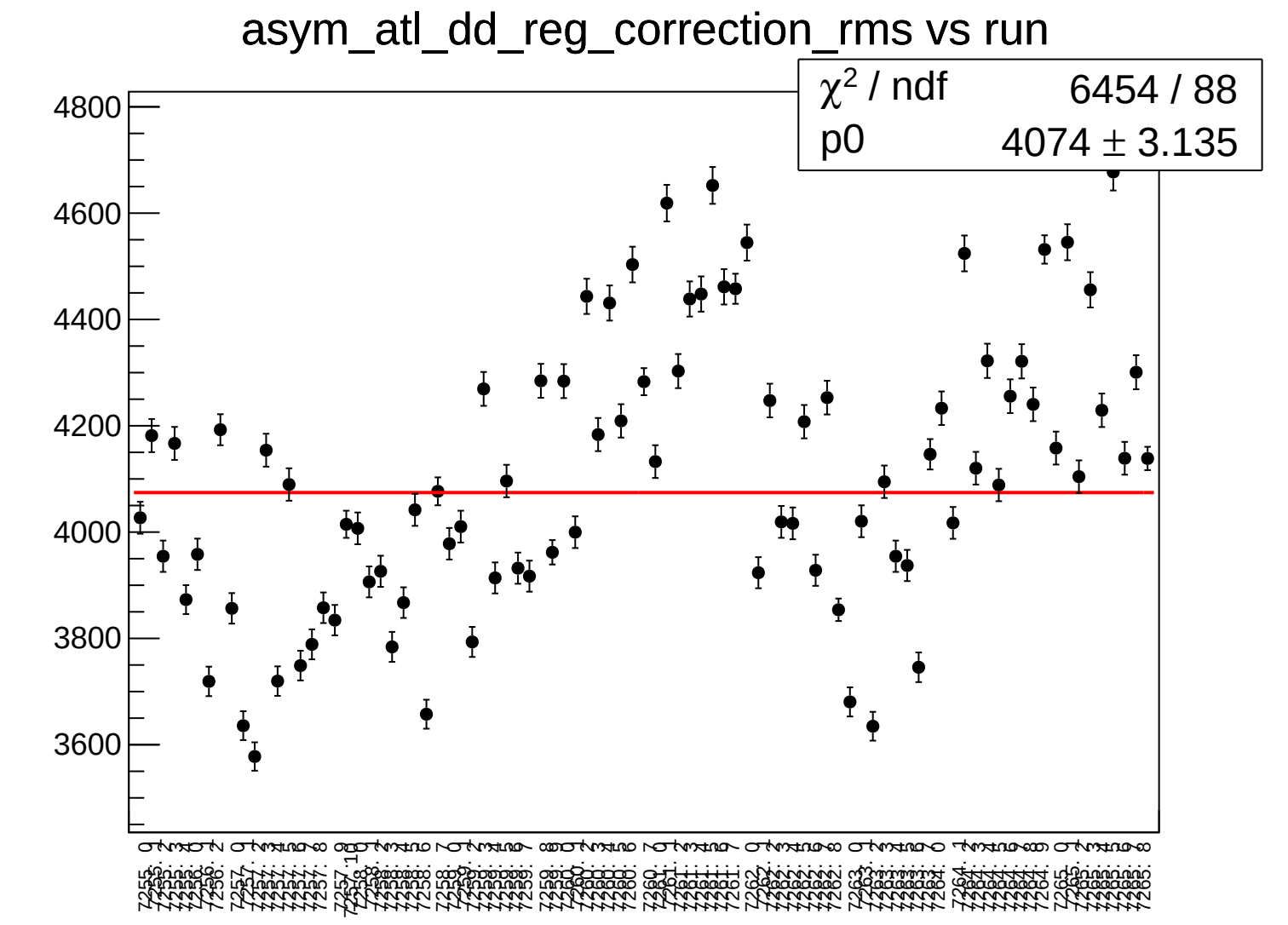

reg_asym_atl_dd_mean vs run
χ² / ndf 94.46 / 88
p0 −382.9 ± 1698
pull
Entries 89
Mean 19.28
Std Dev 0

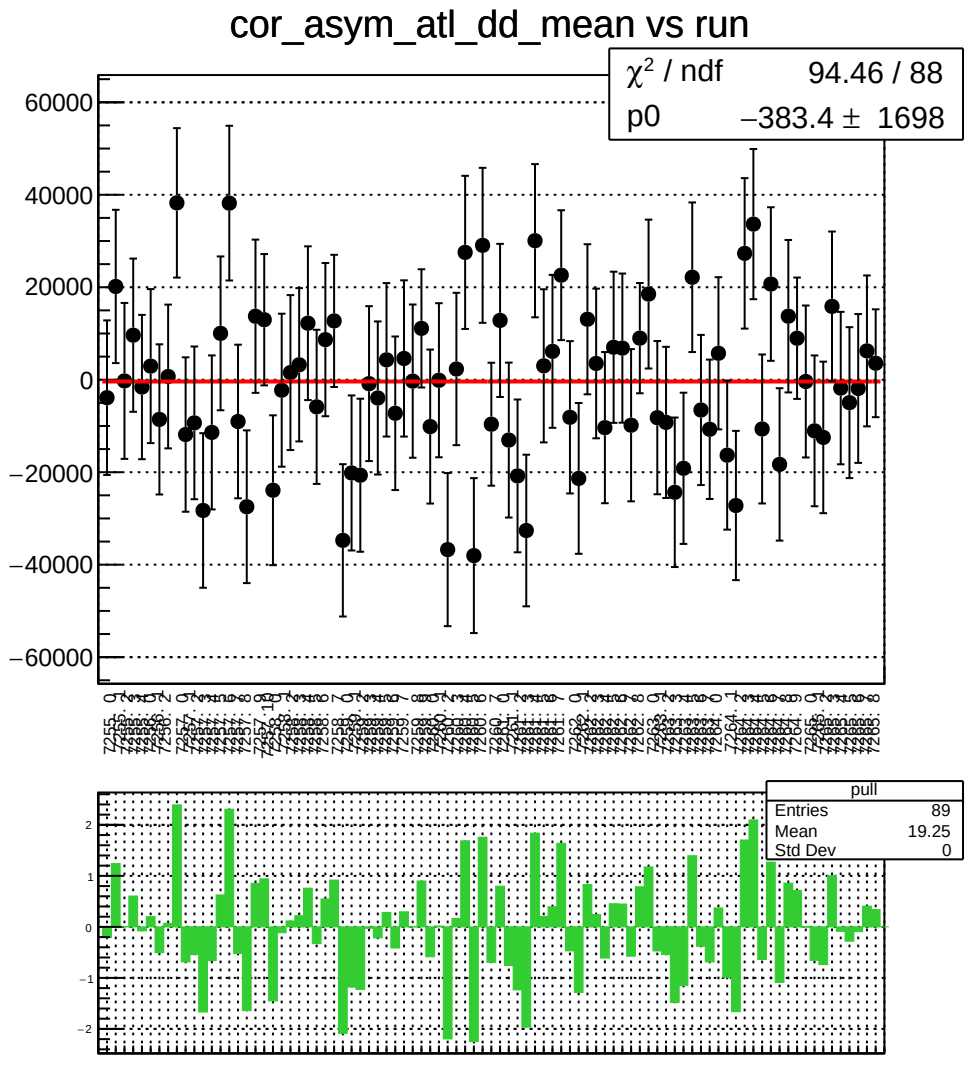

pull1D
Entries 89
Mean −0.01402
Std Dev 1.03

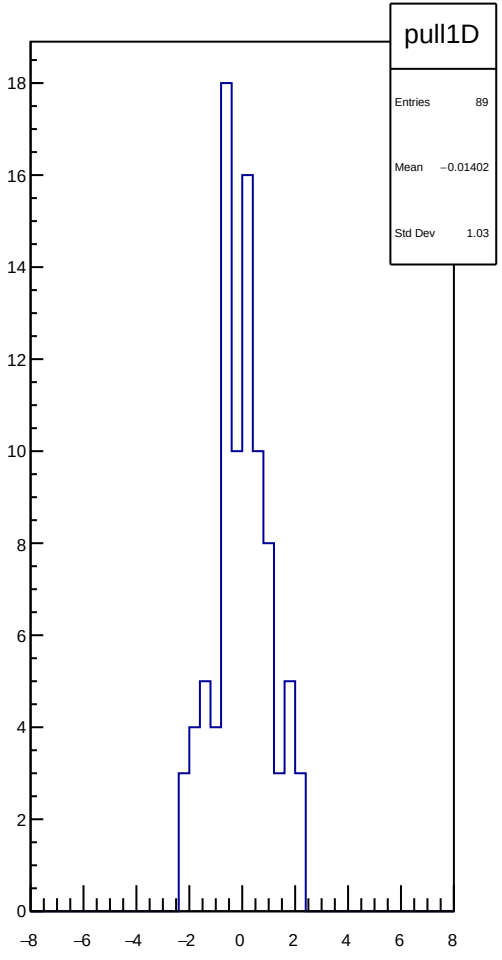

reg_asym_atl_dd_rms vs run
χ² / ndf 238.7 / 88
p0 1563 ± 1.201
1620
1600
1580
1560
1540
1520

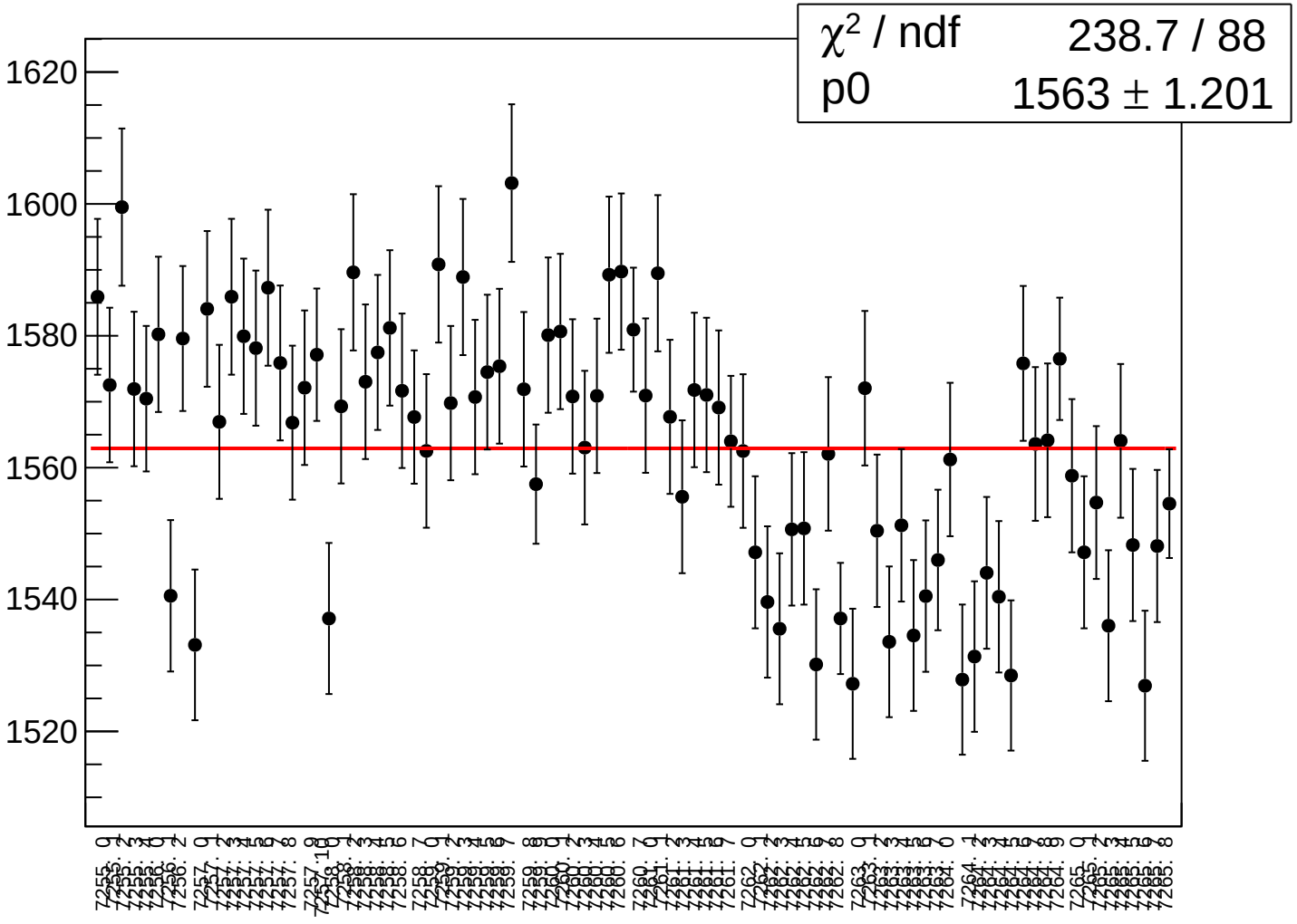

asym_atl_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 83.1 / 88
p0 −2186 ± 4434
pull
Entries 89
Mean 5310
Std Dev 0

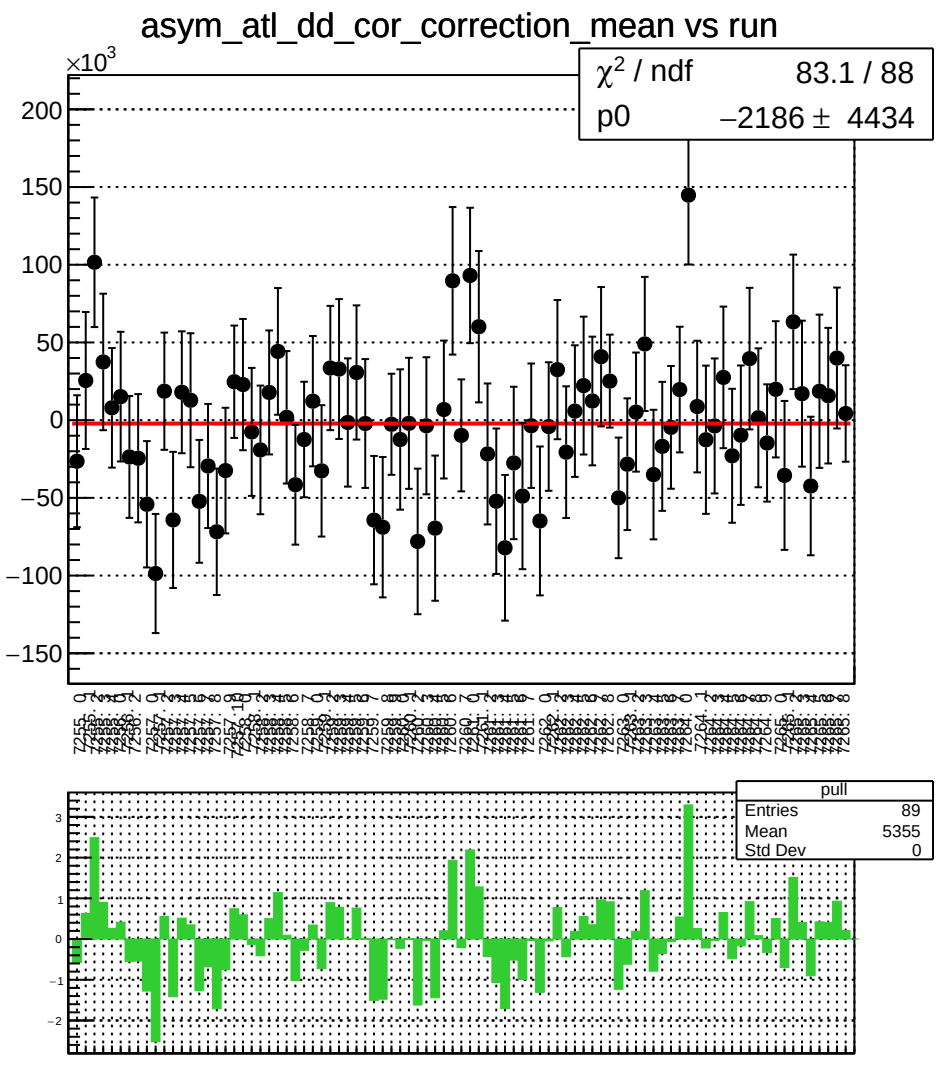

pull1D
Entries 89
Mean 0.000701
Std Dev 0.9663

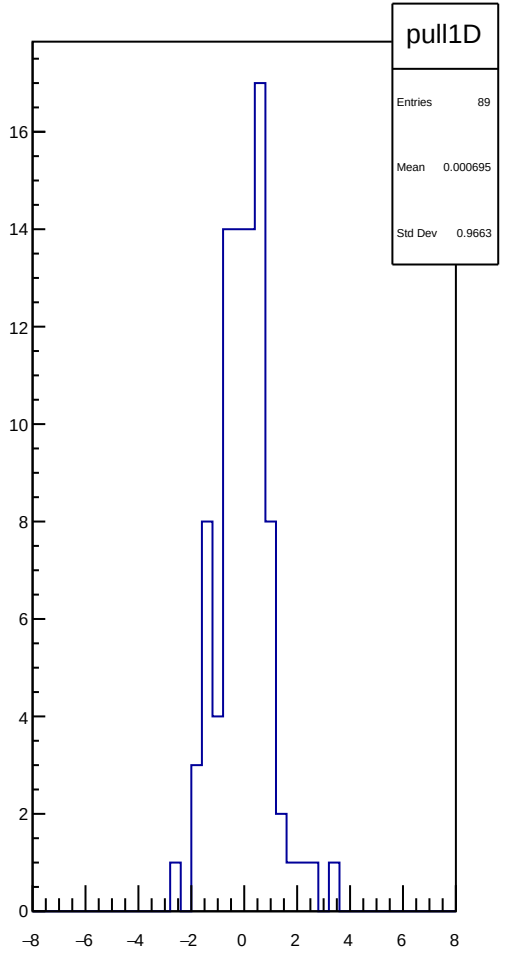

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 6454 / 88
p0 4074 ± 3.135
4800
4600
4400
4200
4000
3800
3600

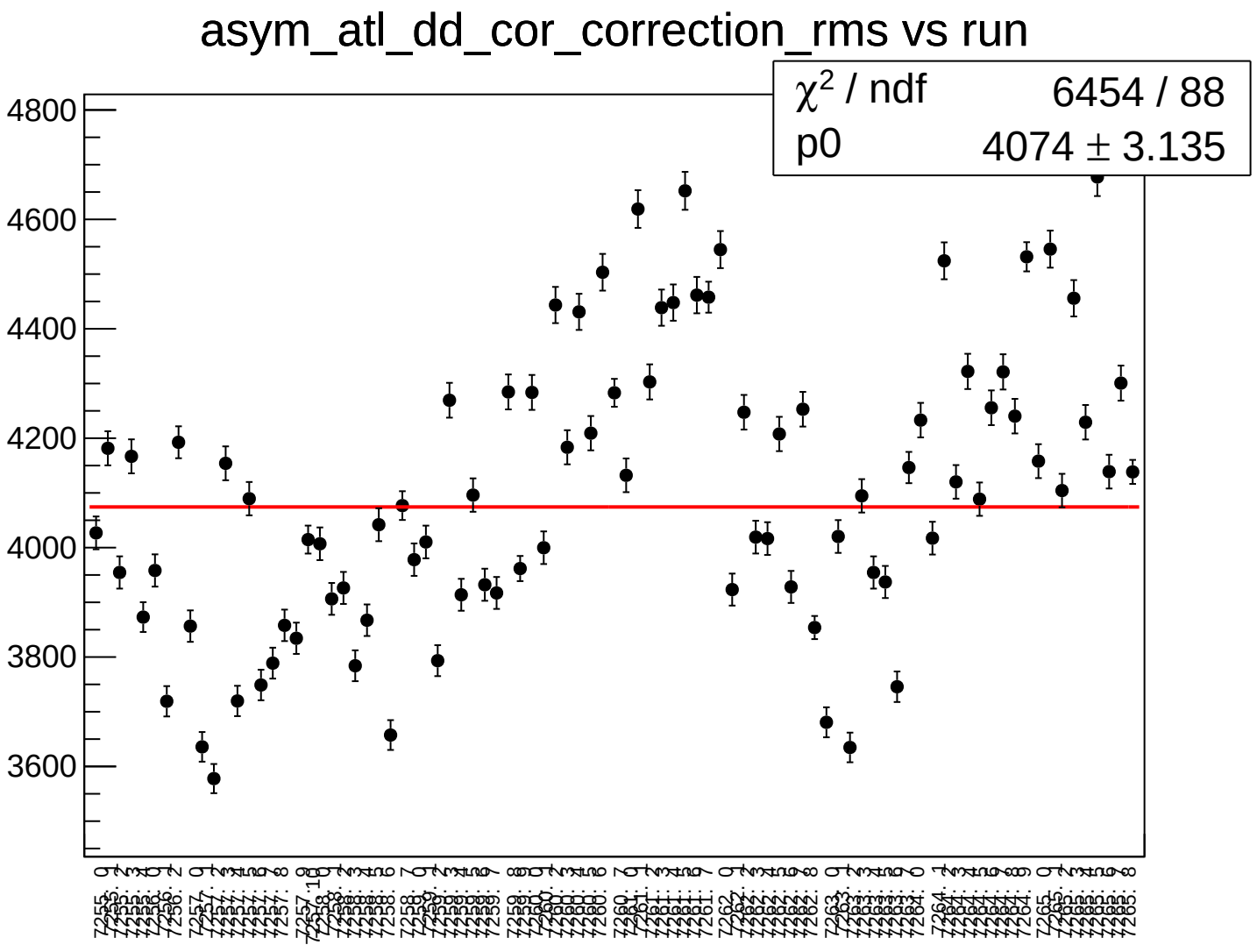

cor_asym_atl_dd_mean vs run
χ² / ndf 94.46 / 88
p0 −383.4 ± 1698
pull
Entries 89
Mean 19.25
Std Dev 0

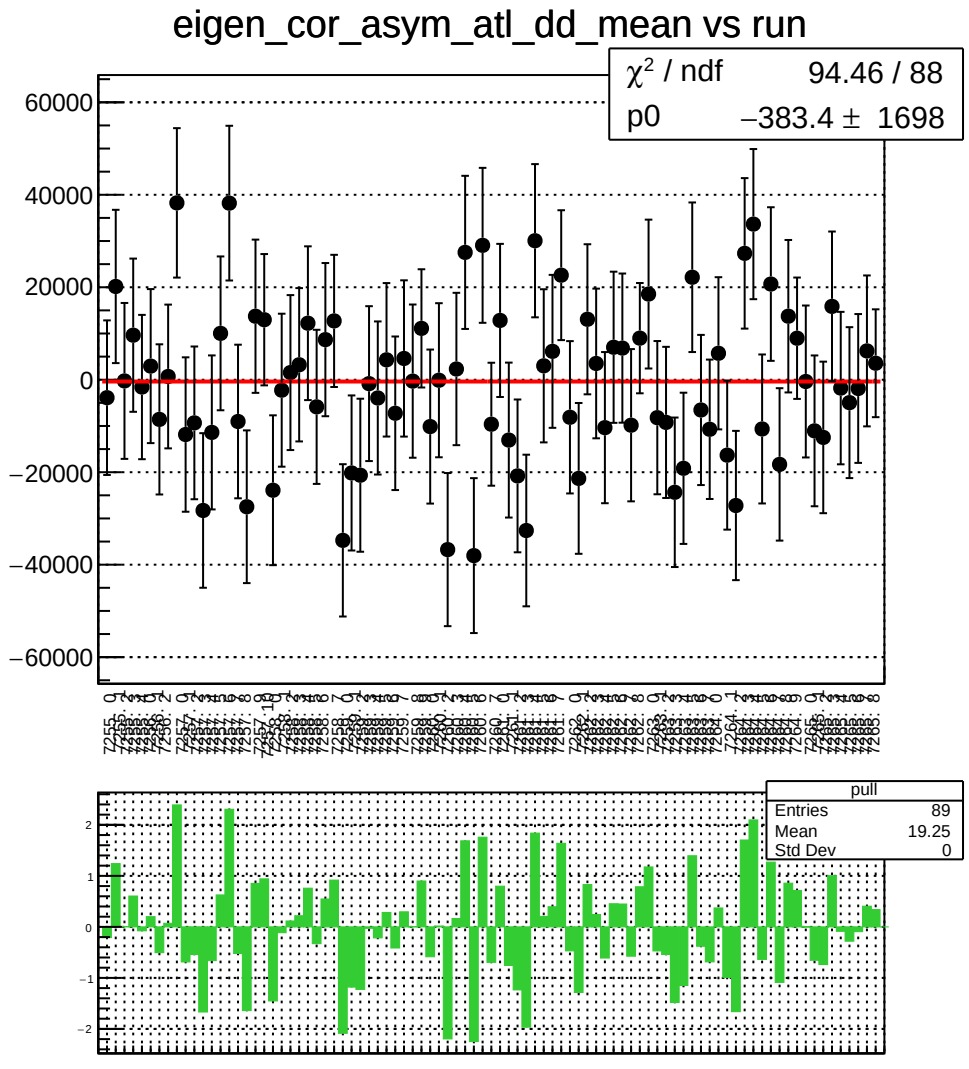

pull1D
Entries 89
Mean −0.01402
Std Dev 1.03

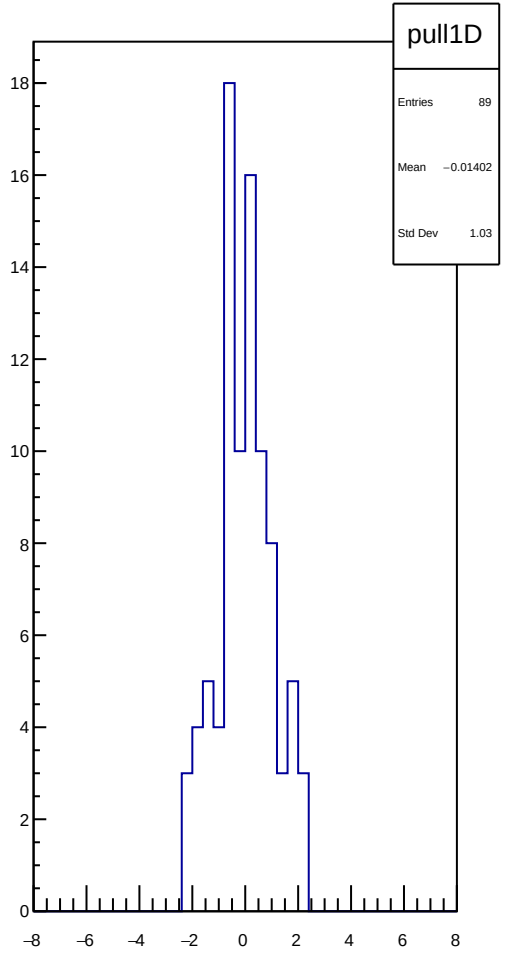

cor_asym_atl_dd_rms vs run
χ² / ndf 238.7 / 88
p0 1563 ± 1.201
1620
1600
1580
1560
1540
1520

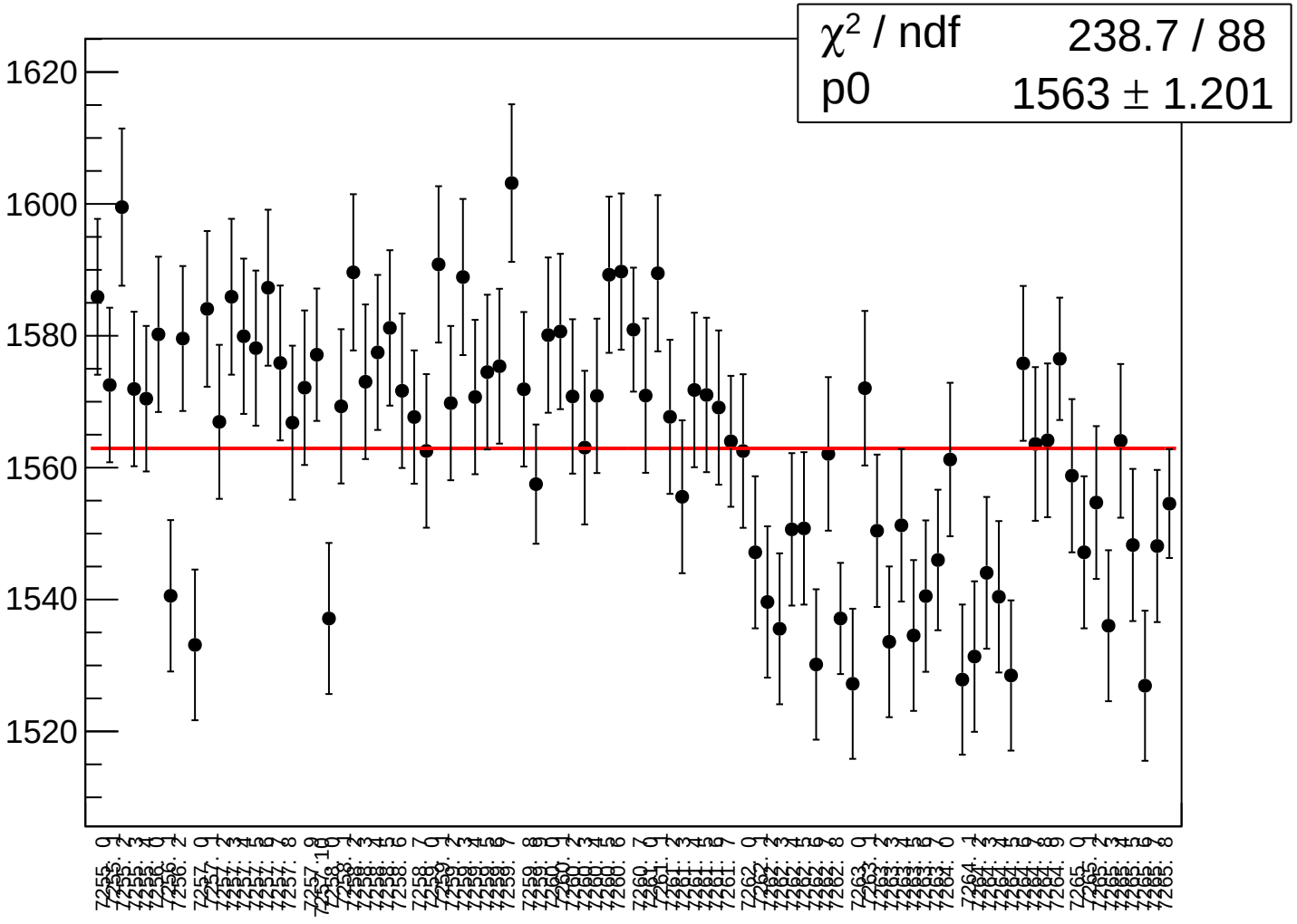

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 83.1 / 88
p0 −2186 ± 4434
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 5355
Std Dev 0
3
2
1
0
−1
−2

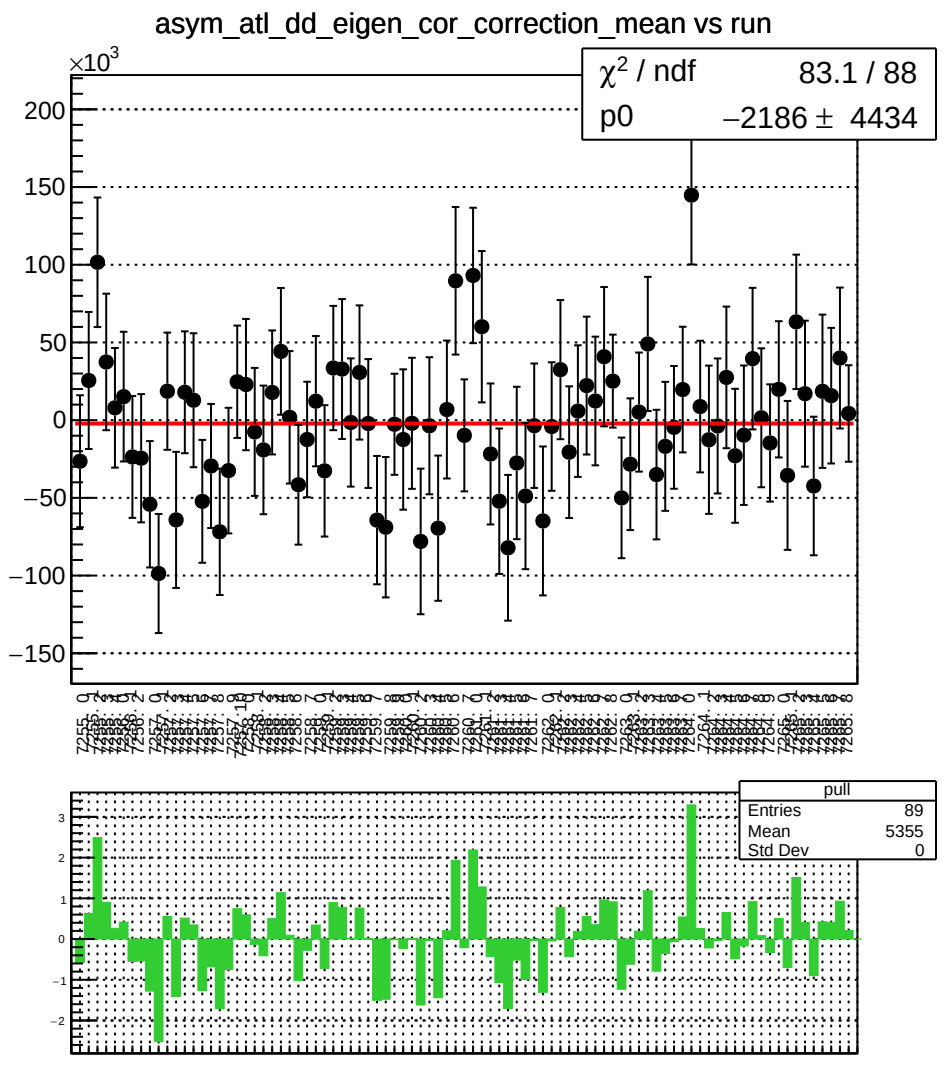

pull1D
Entries 89
Mean 0.000695
Std Dev 0.9663
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

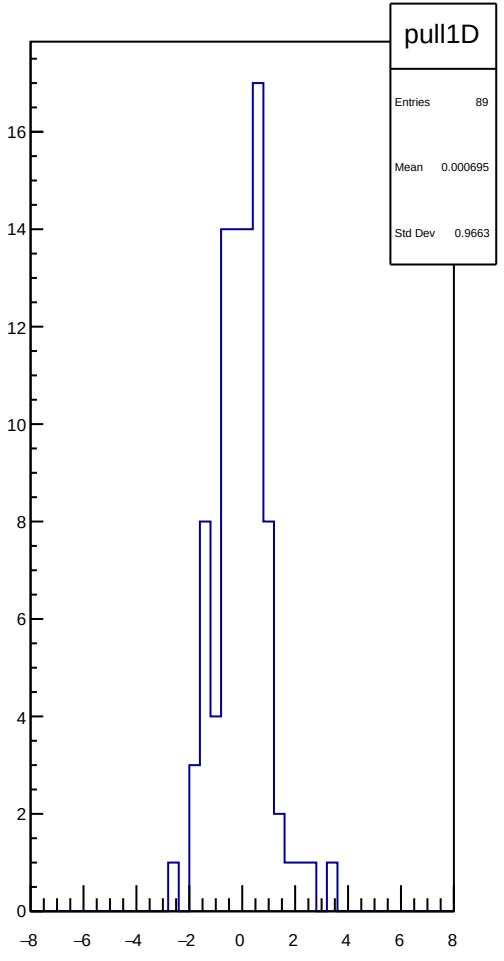

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 6454 / 88
p0 4074 ± 3.135
4800
4600
4400
4200
4000
3800
3600

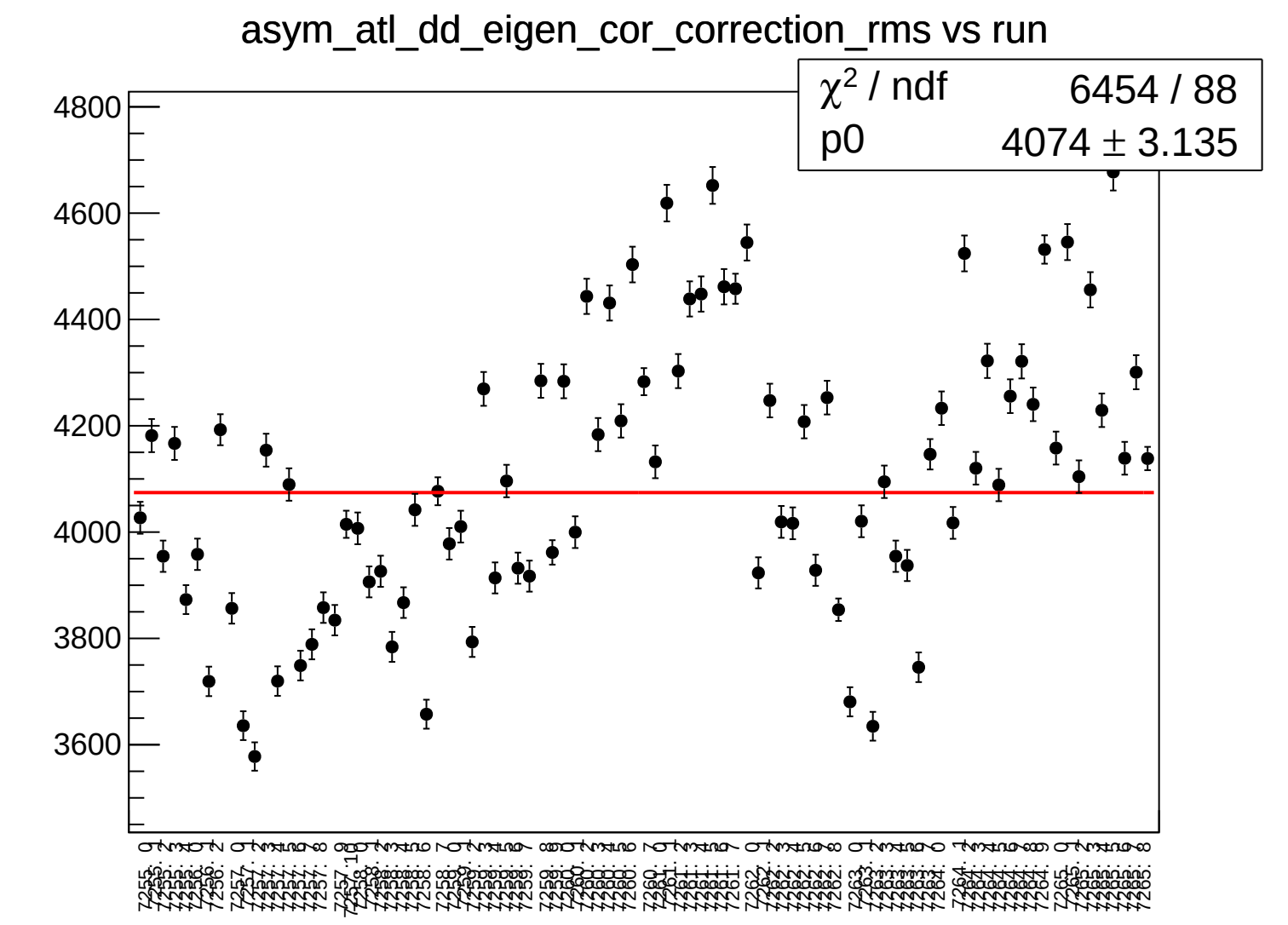

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 94.46 / 88
p0 −383.4 ± 1698
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 19.25
Std Dev 0
2
1
0
−1
−2

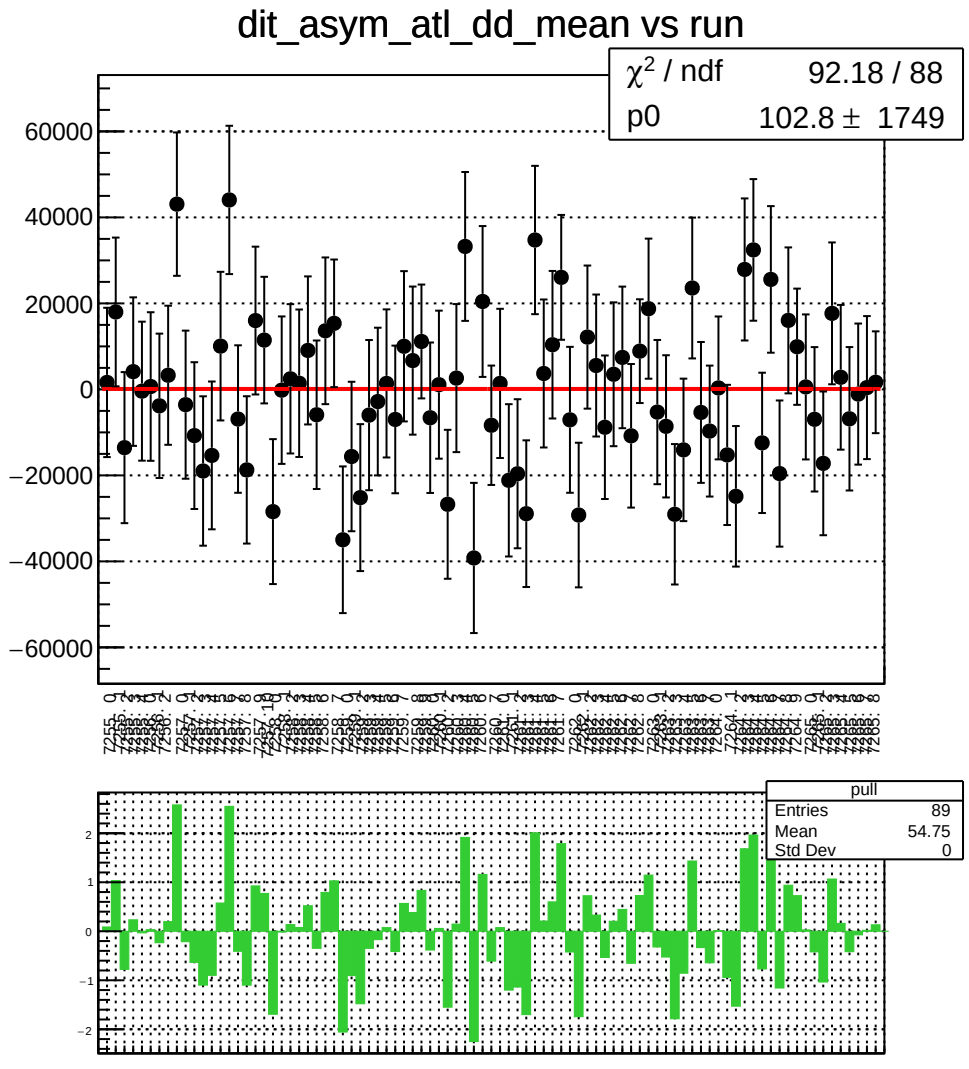

pull1D
Entries 89
Mean −0.01402
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

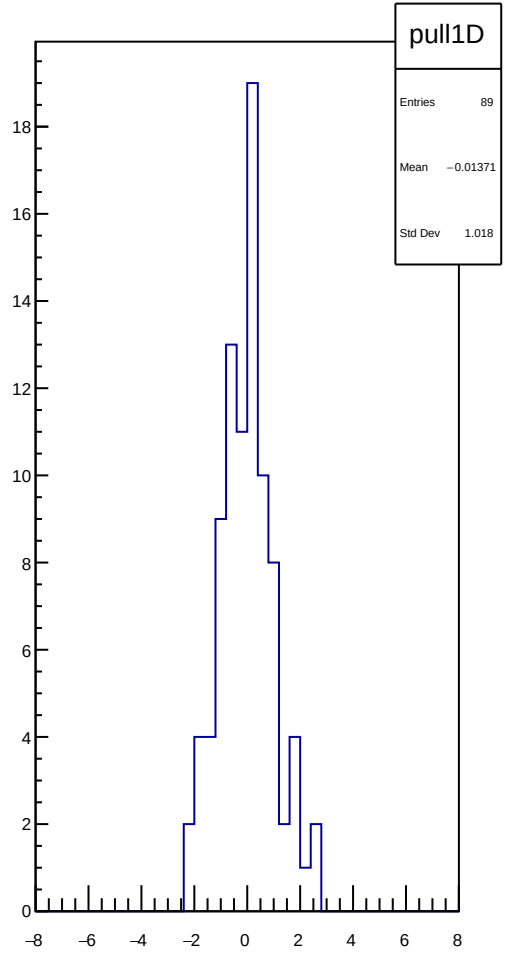

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 238.7 / 88
p0 1563 ± 1.201
1620
1600
1580
1560
1540
1520

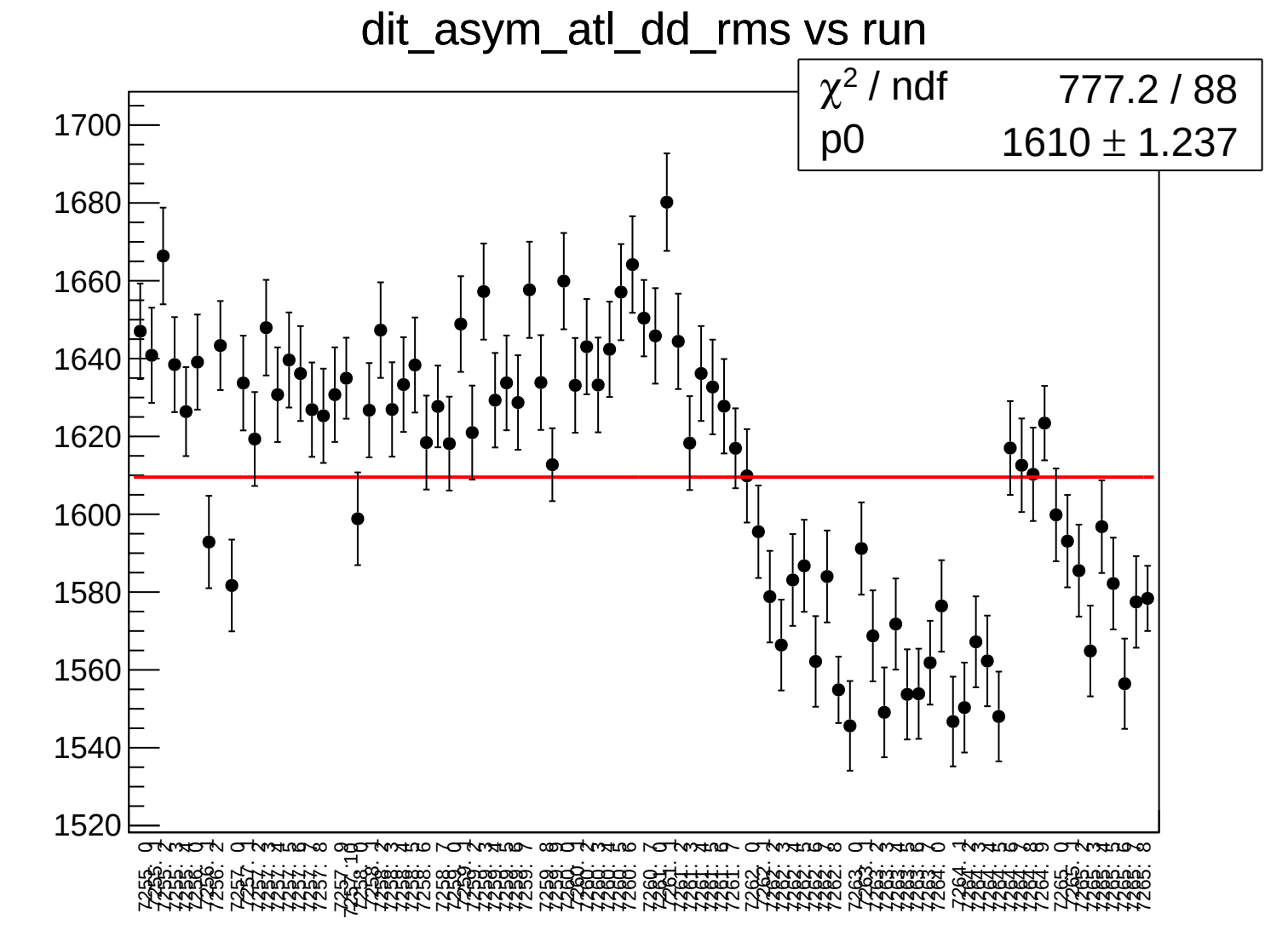

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.1 / 88
p0 −2186 ± 4434
pull
Entries 89
Mean 5355
Std Dev 0

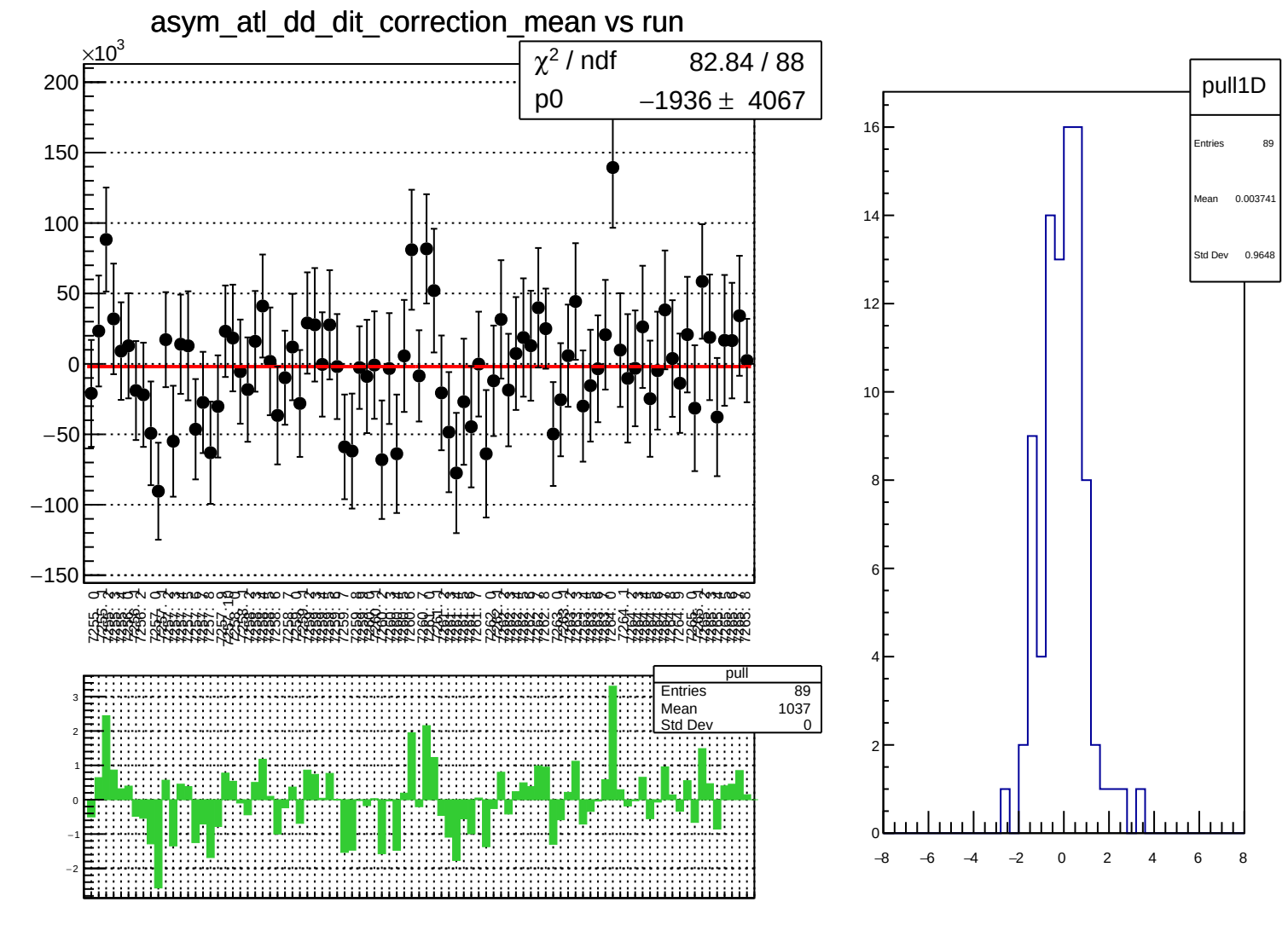

pull1D
Entries 89
Mean 0.000695
Std Dev 0.9663

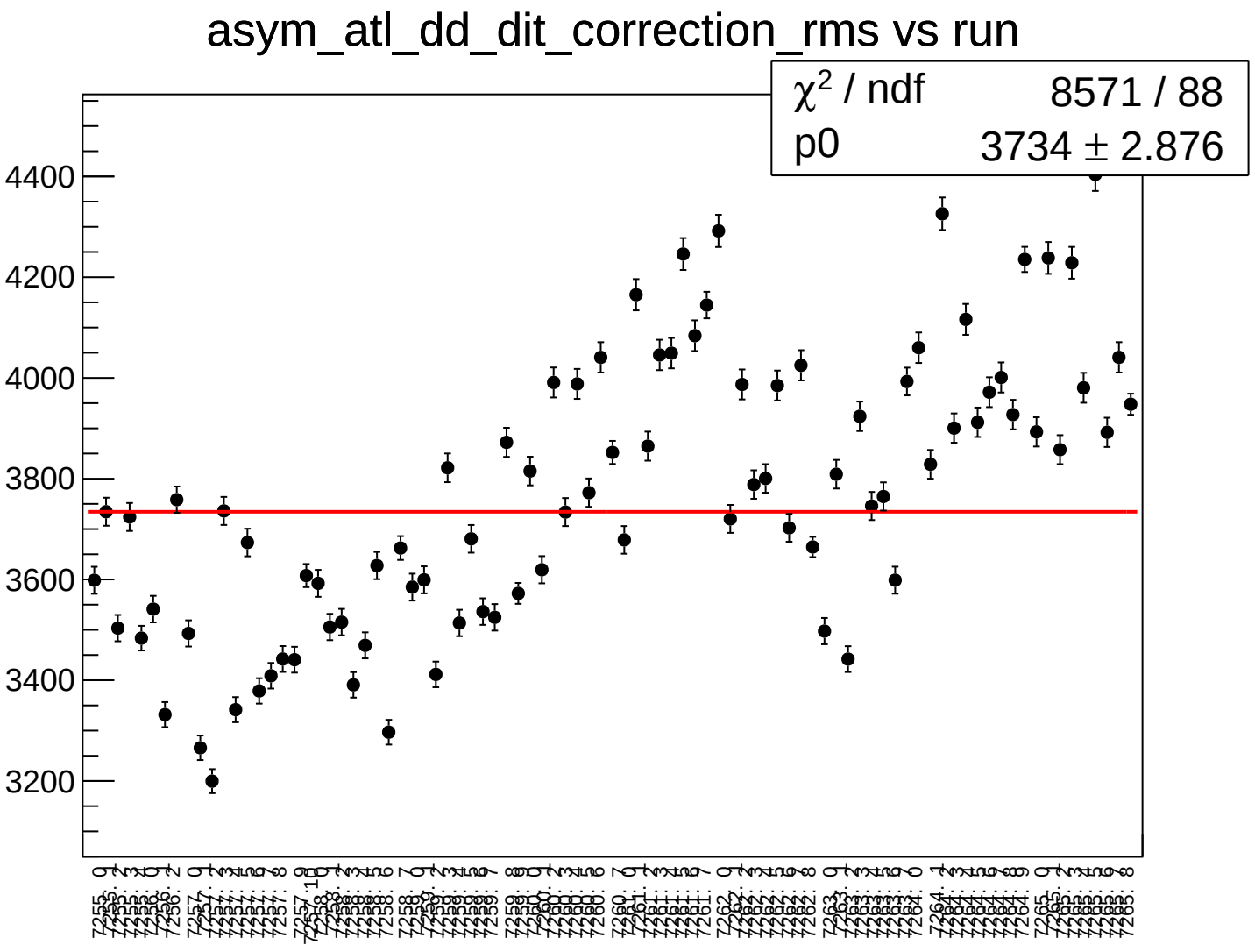

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 6454 / 88
p0 4074 ± 3.135
4800
4600
4400
4200
4000
3800
3600

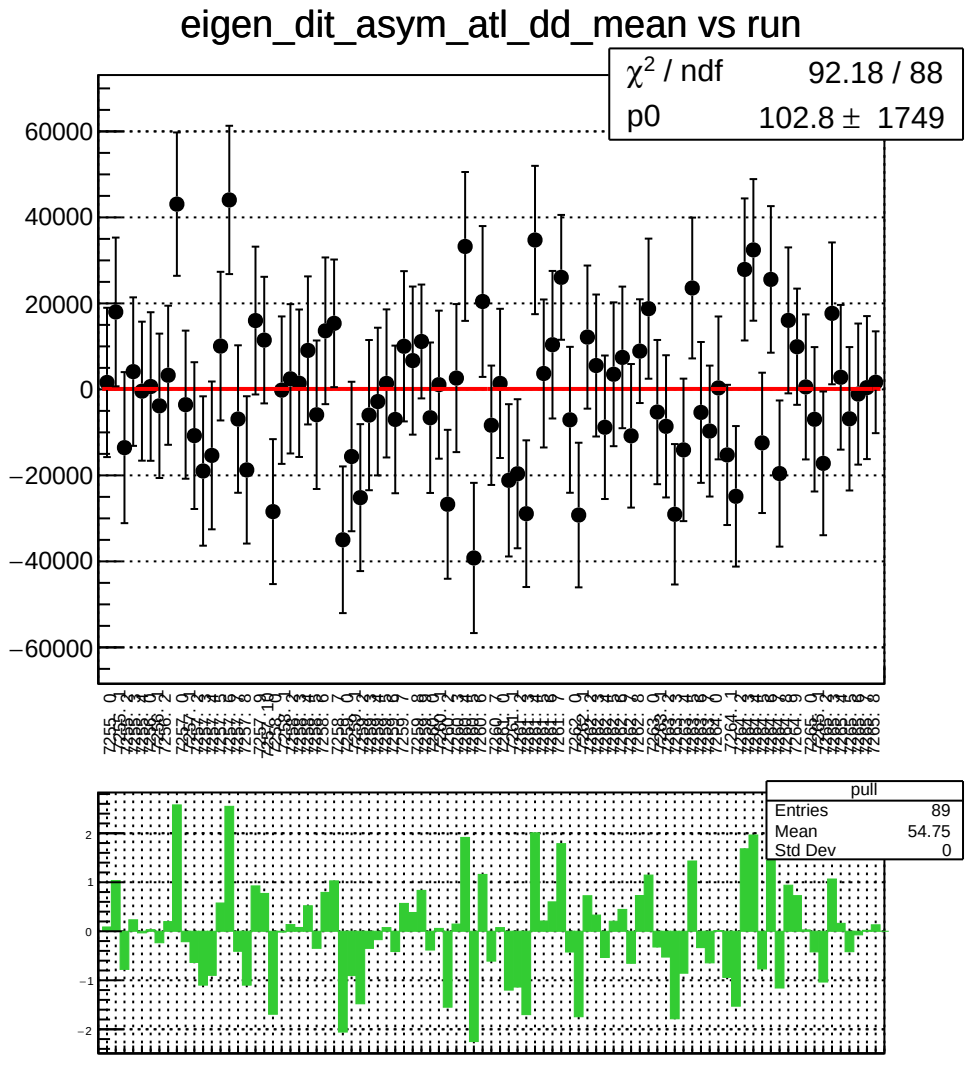

dit_asym_atl_dd_mean vs run
χ² / ndf 92.18 / 88
p0 102.8 ± 1749
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 54.75
Std Dev 0
2
1
0
−1
−2

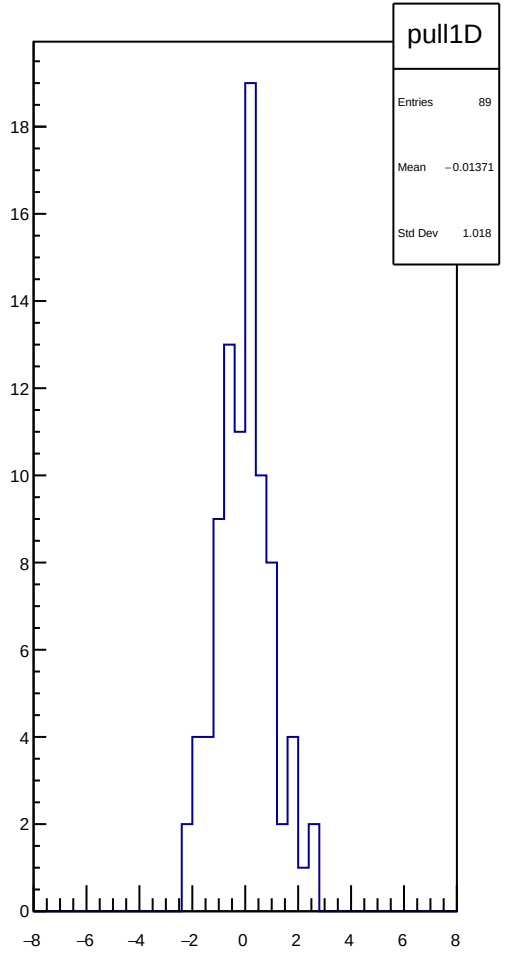

pull1D
Entries 89
Mean −0.01371
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

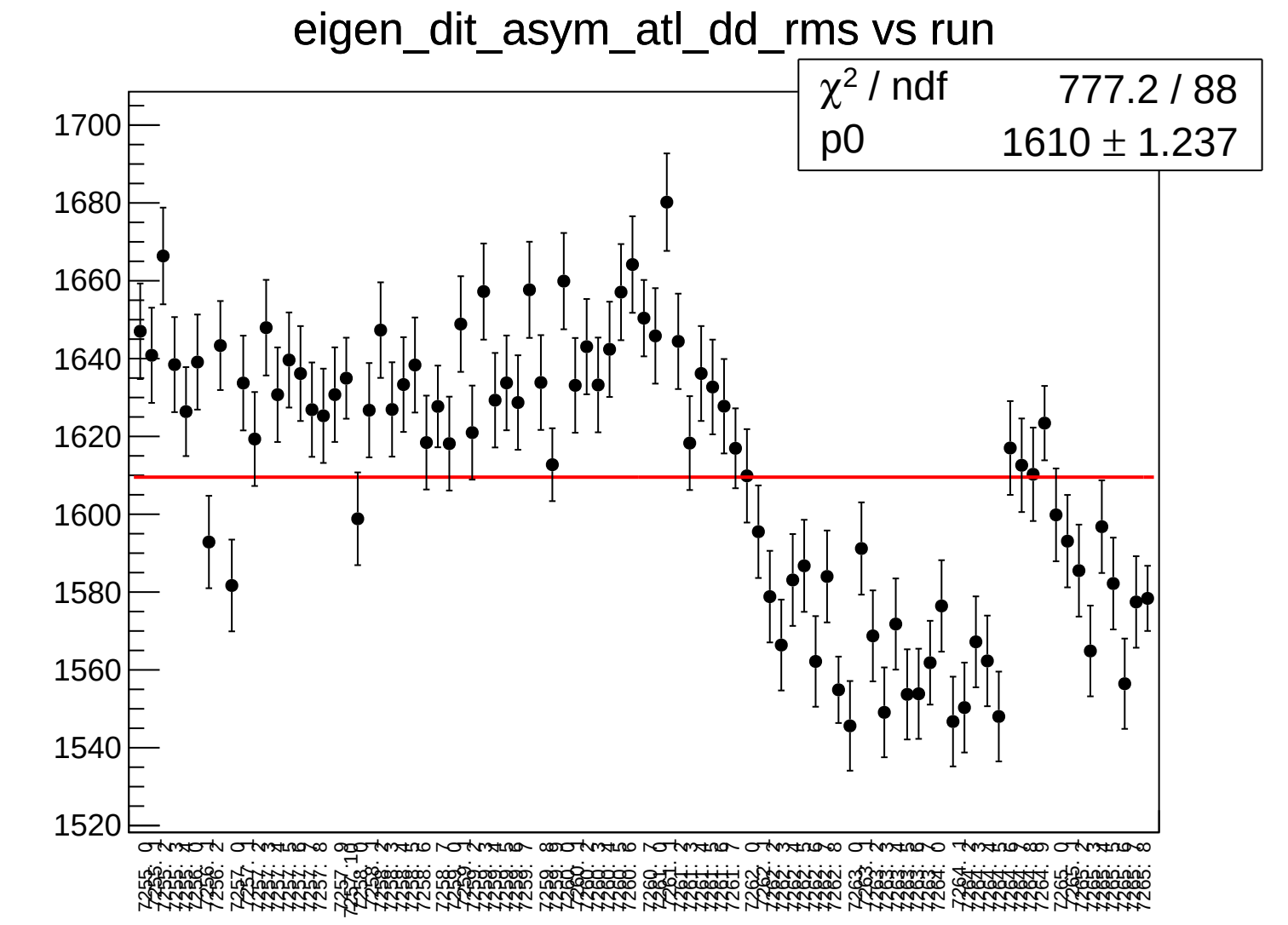

dit_asym_atl_dd_rms vs run
χ² / ndf 777.2 / 88
p0 1610 ± 1.237
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

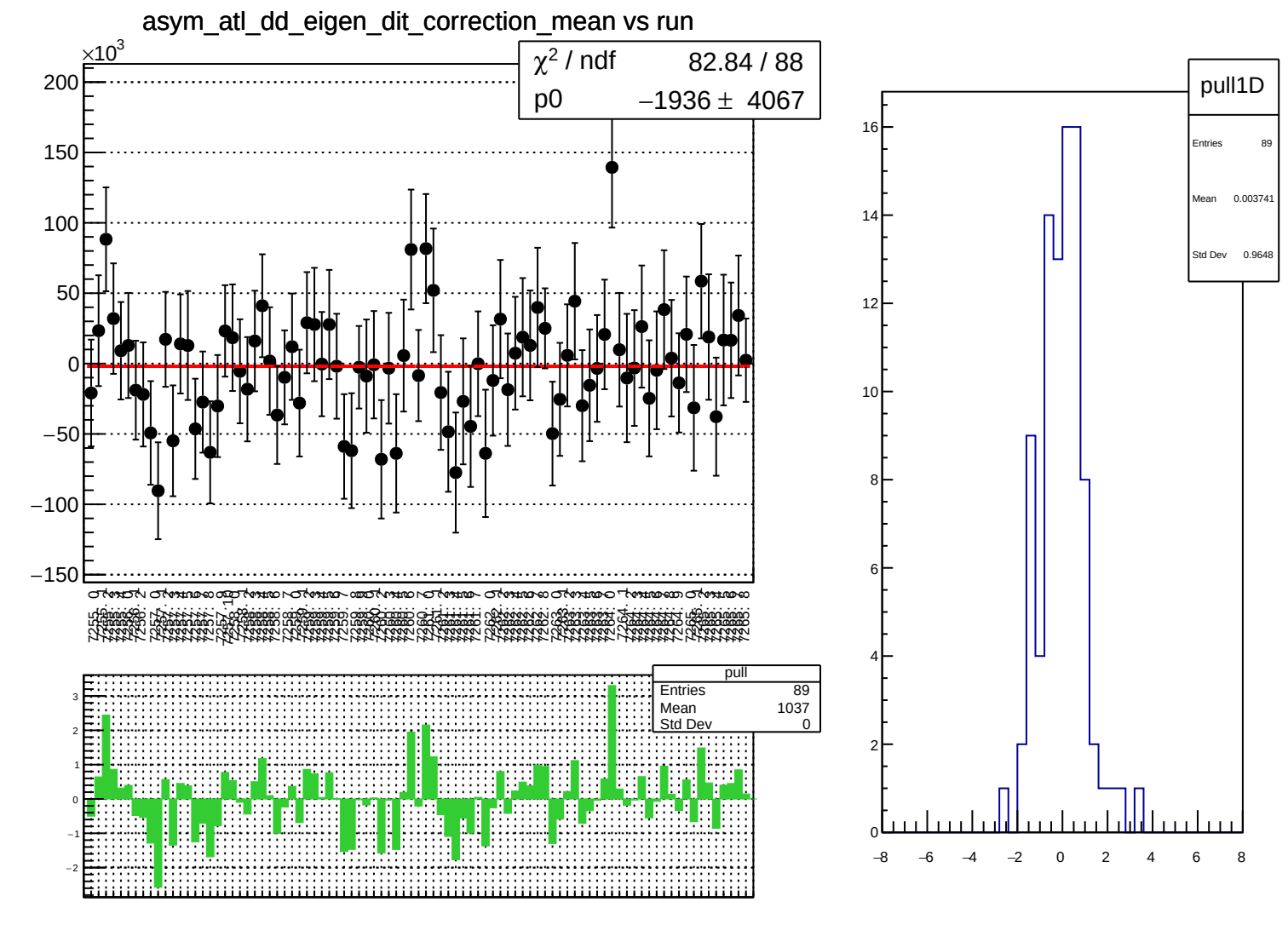

asym_atl_dd_dit_correction_mean vs run
χ² / ndf 82.84 / 88
p0 −1936 ± 4067
×10³
pull
Entries 89
Mean 1037
Std Dev 0
pull1D
Entries 89
Mean 0.003741
Std Dev 0.9648

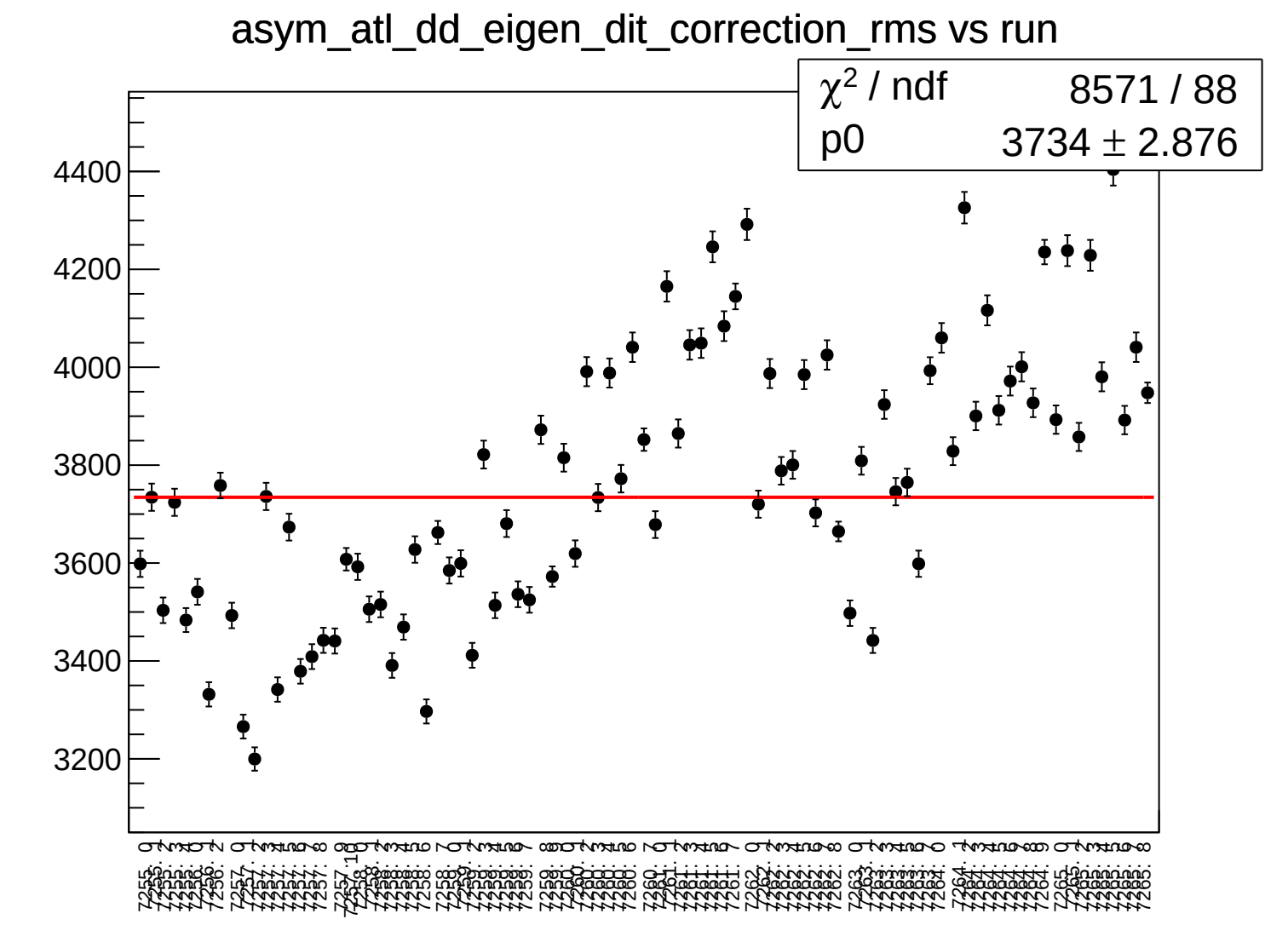

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 8571 / 88
p0 3734 ± 2.876
4400
4200
4000
3800
3600
3400
3200

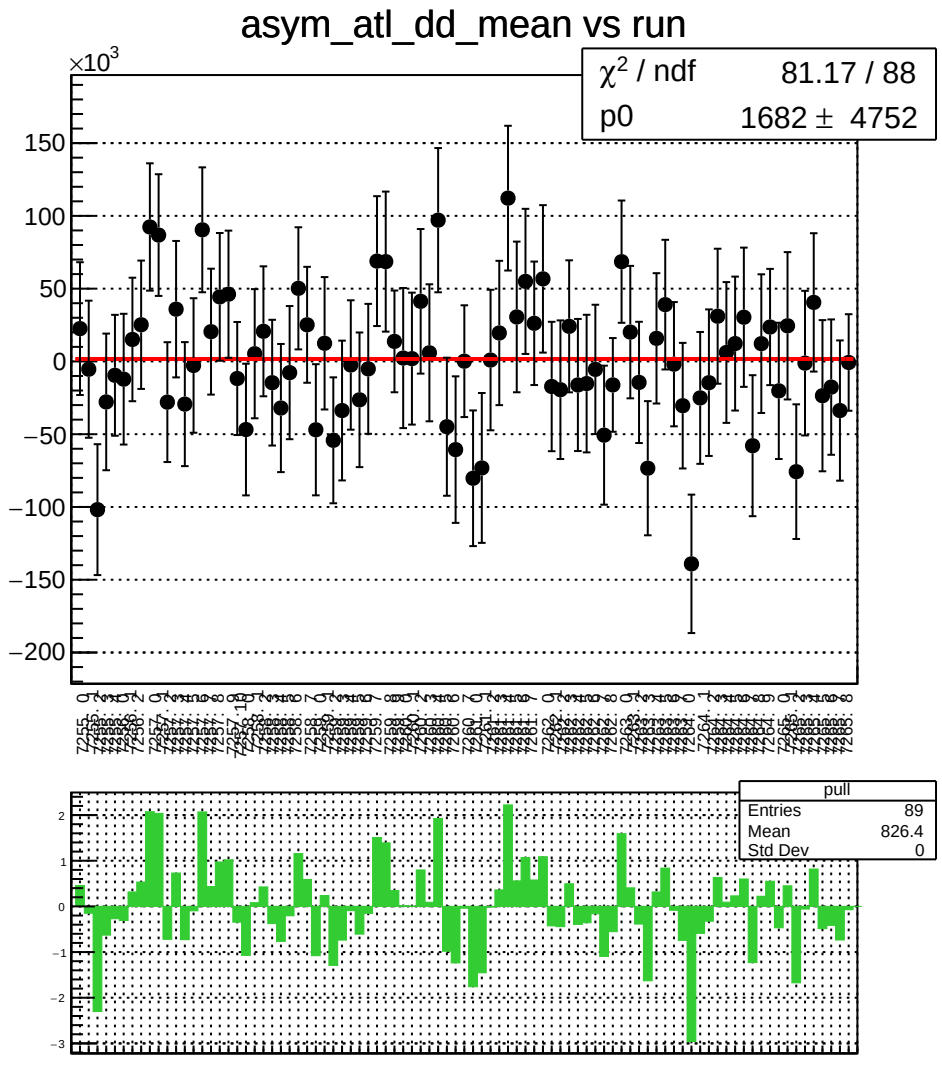

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 92.18 / 88
p0 102.8 ± 1749
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 54.75
Std Dev 0
2
1
0
−1
−2

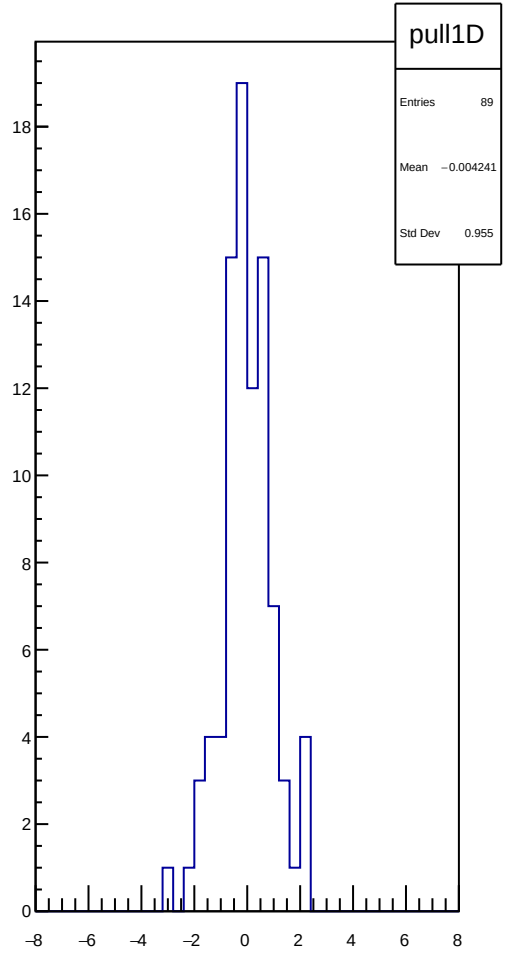

pull1D
Entries 89
Mean −0.01371
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

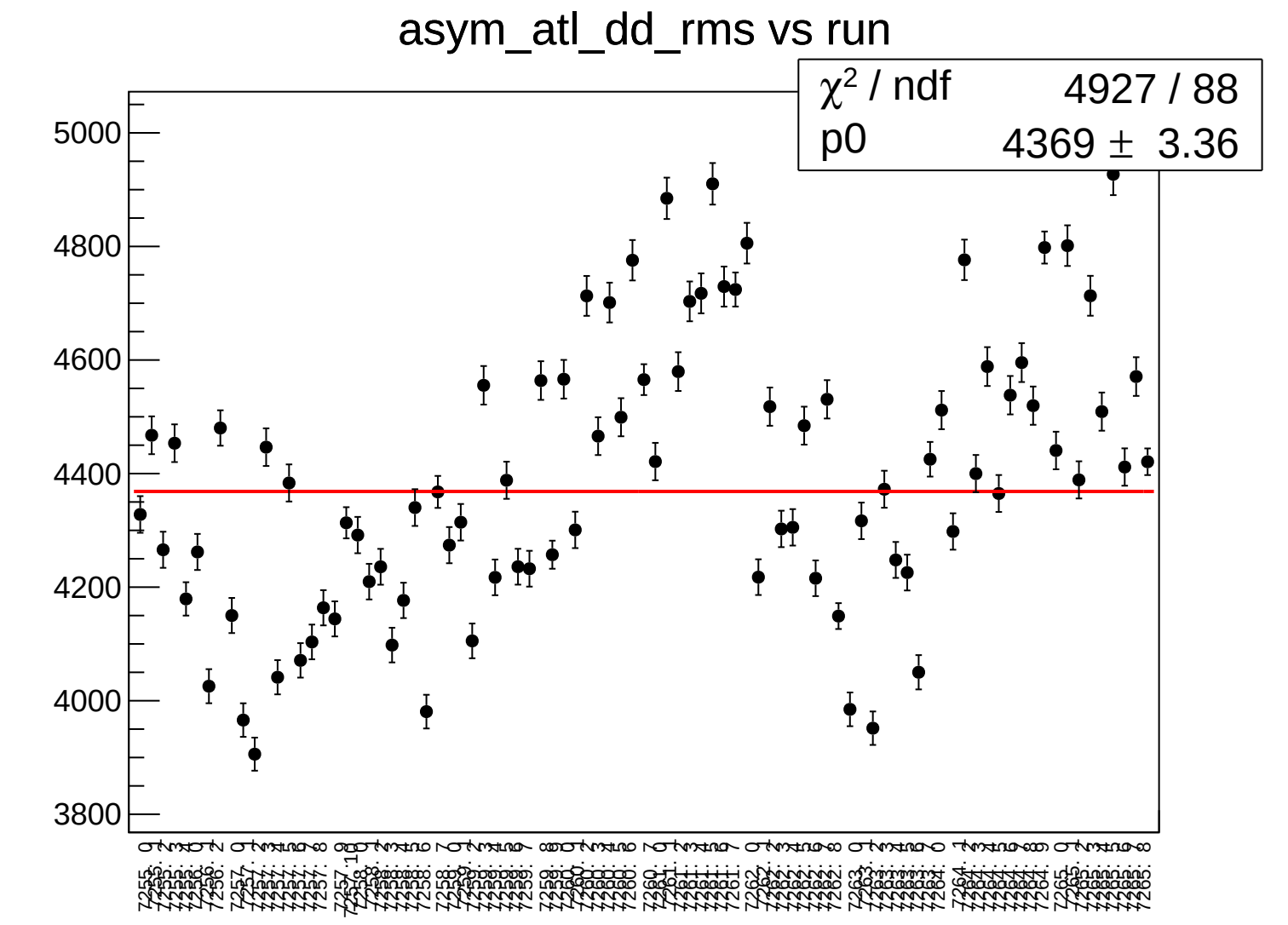

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 777.2 / 88
p0 1610 ± 1.237
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

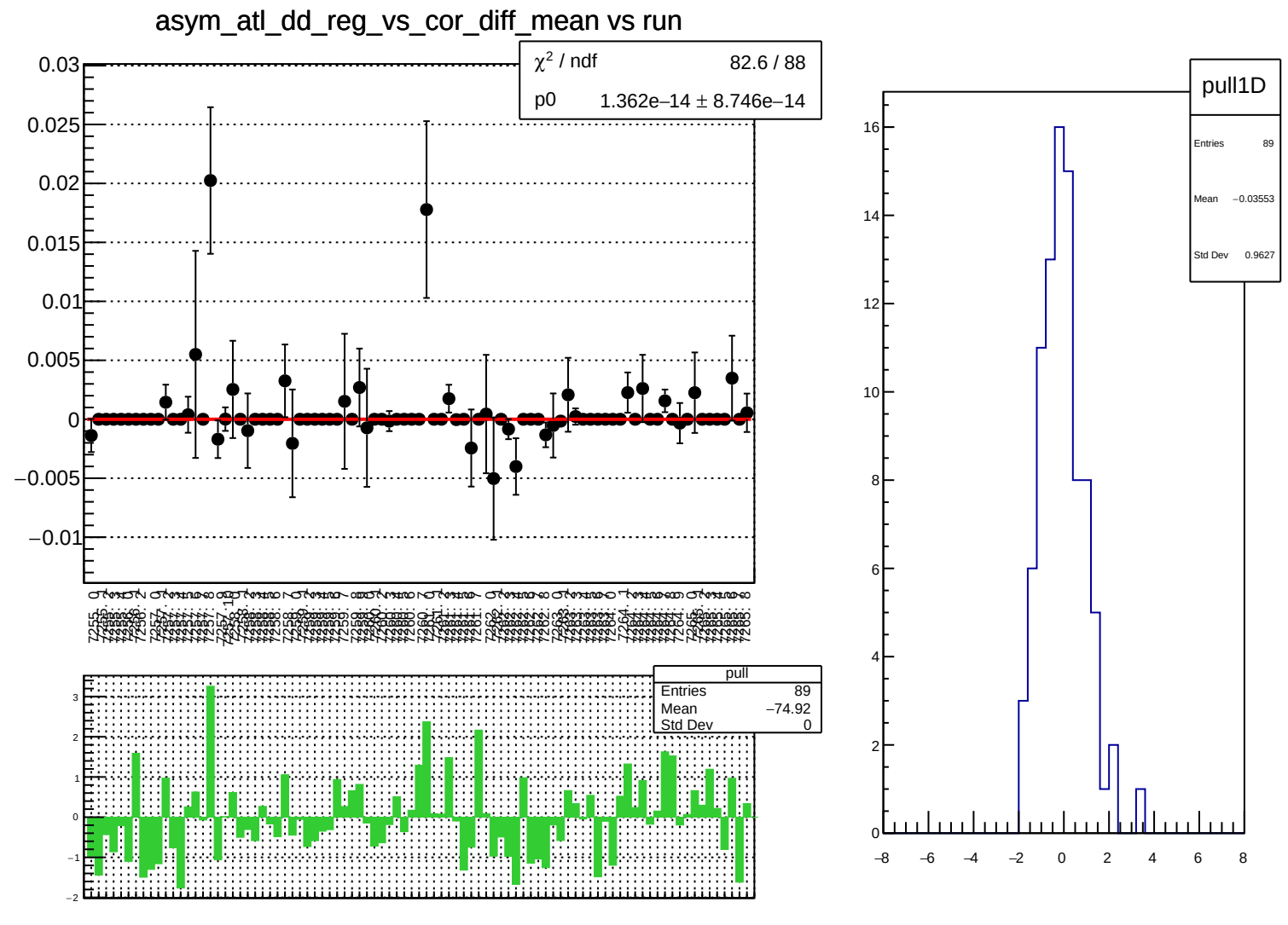

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.84 / 88
p0 −1936 ± 4067
pull
Entries 89
Mean 1037
Std Dev 0
pull1D
Entries 89
Mean 0.003741
Std Dev 0.9648

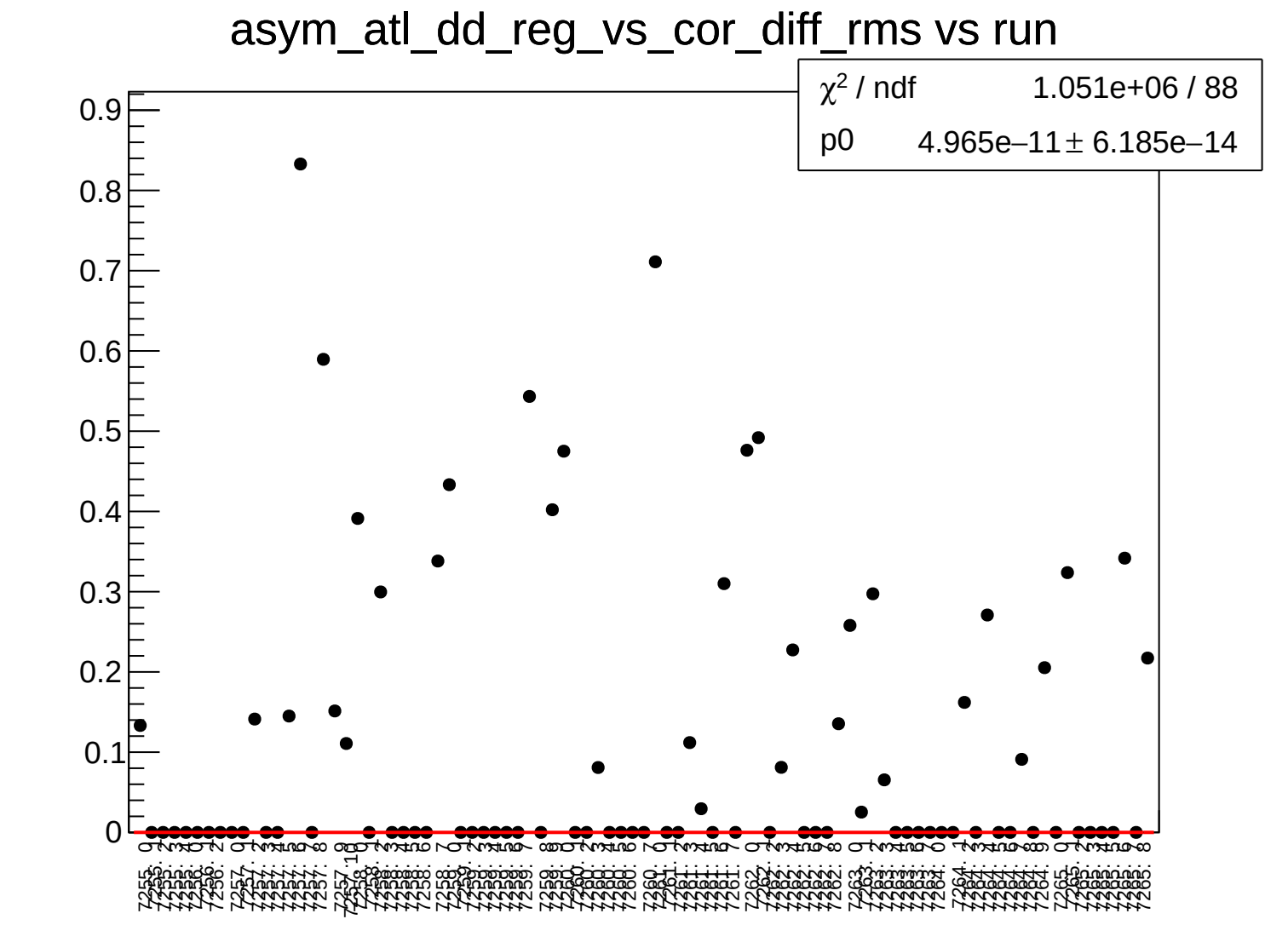

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 8571 / 88
p0 3734 ± 2.876
4400
4200
4000
3800
3600
3400
3200

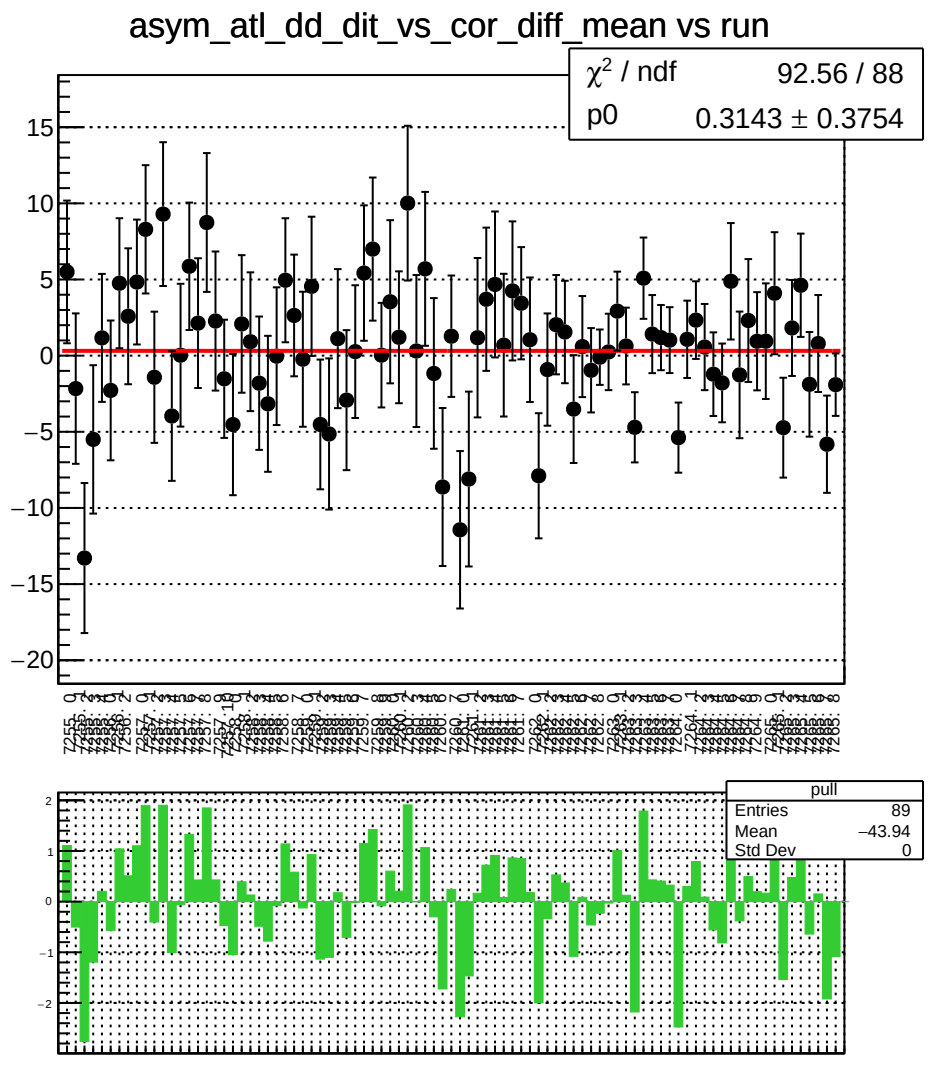

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 81.17 / 88
p0 1682 ± 4752
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 826.4
Std Dev 0
2
1
0
−1
−2
−3

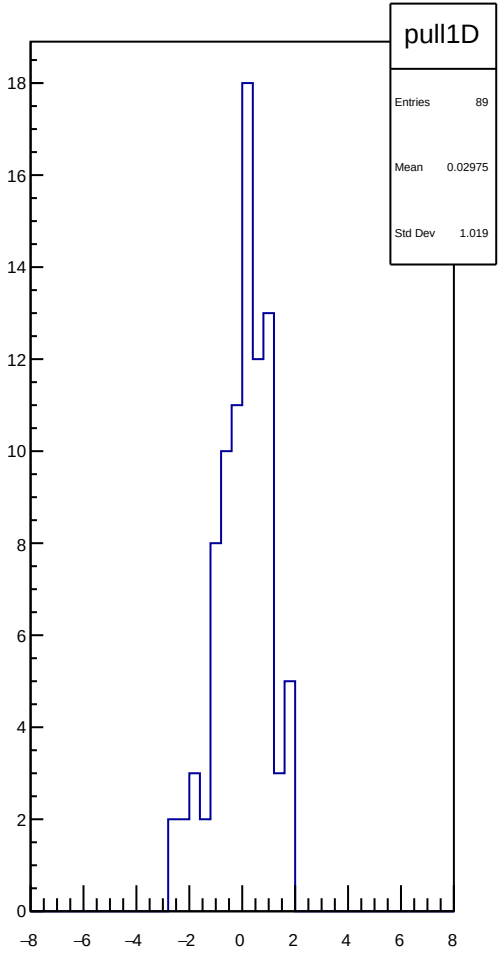

pull1D
Entries 89
Mean −0.004241
Std Dev 0.955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

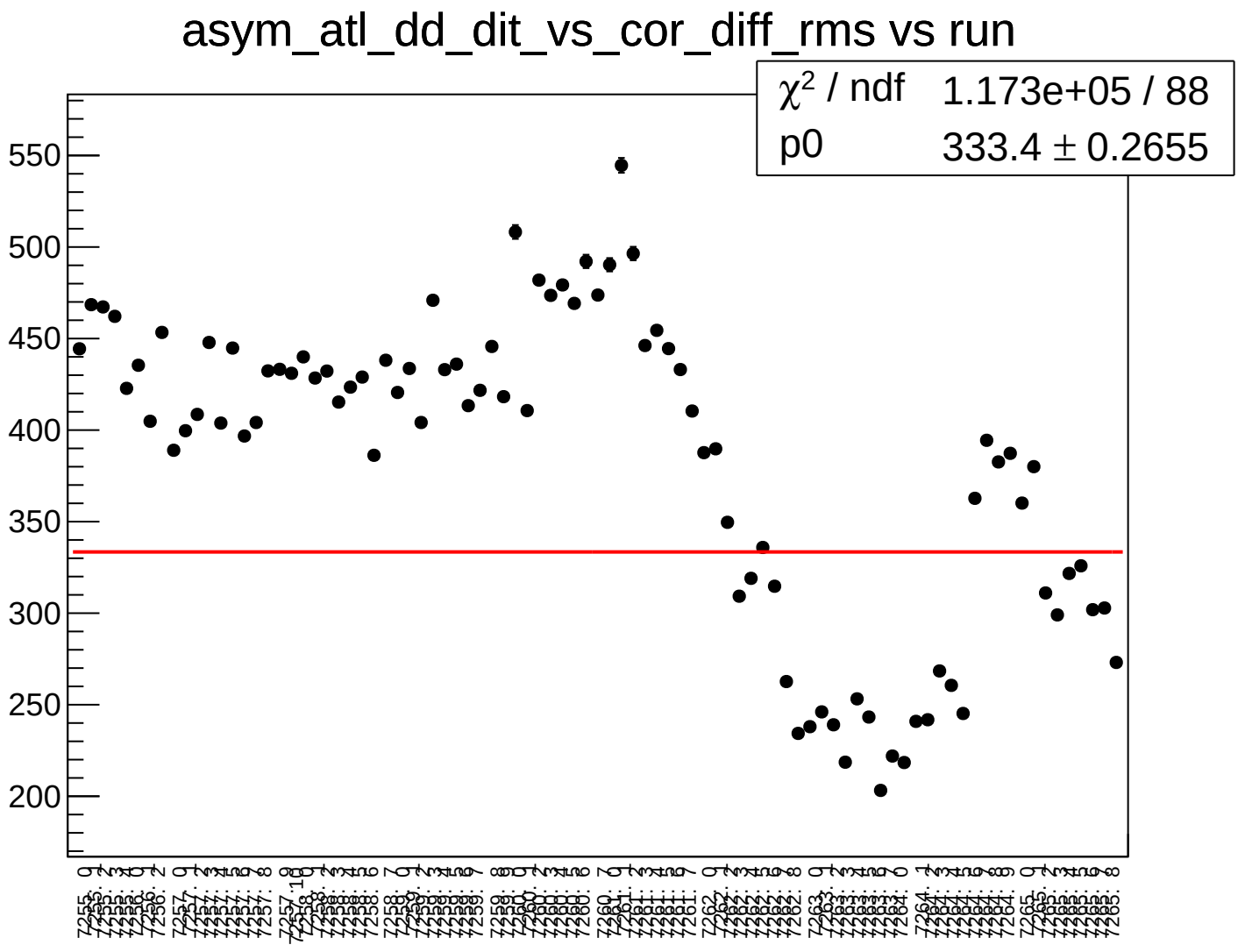

asym_atl_dd_rms vs run
χ² / ndf 4927 / 88
p0 4369 ± 3.36
5000
4800
4600
4400
4200
4000
3800

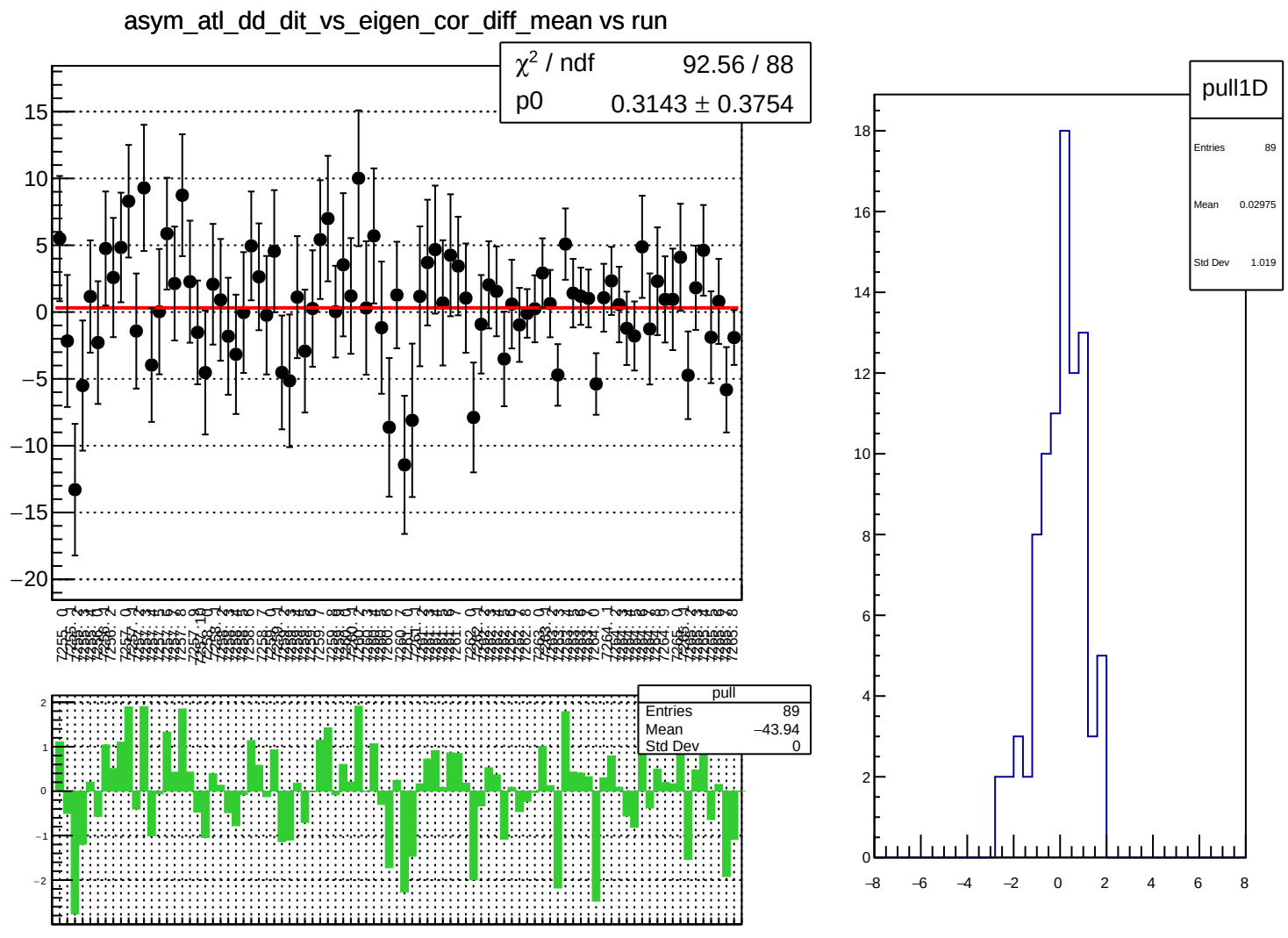

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.6 / 88
p0 1.362e−14 ± 8.746e−14
pull
Entries 89
Mean −74.92
Std Dev 0
pull1D
Entries 89
Mean −0.03553
Std Dev 0.9627

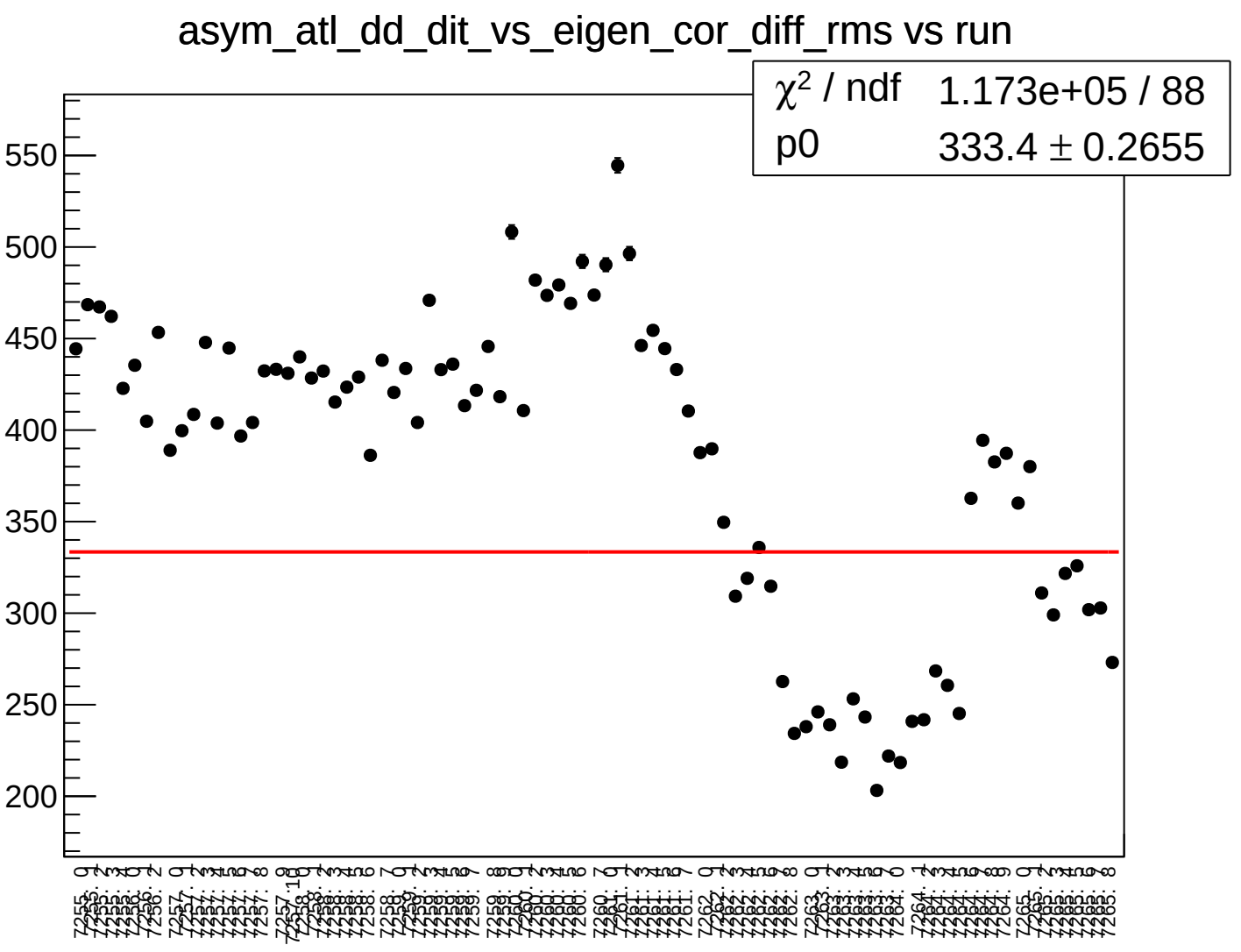

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.051e+06 / 88
p0 4.965e−11 ± 6.185e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

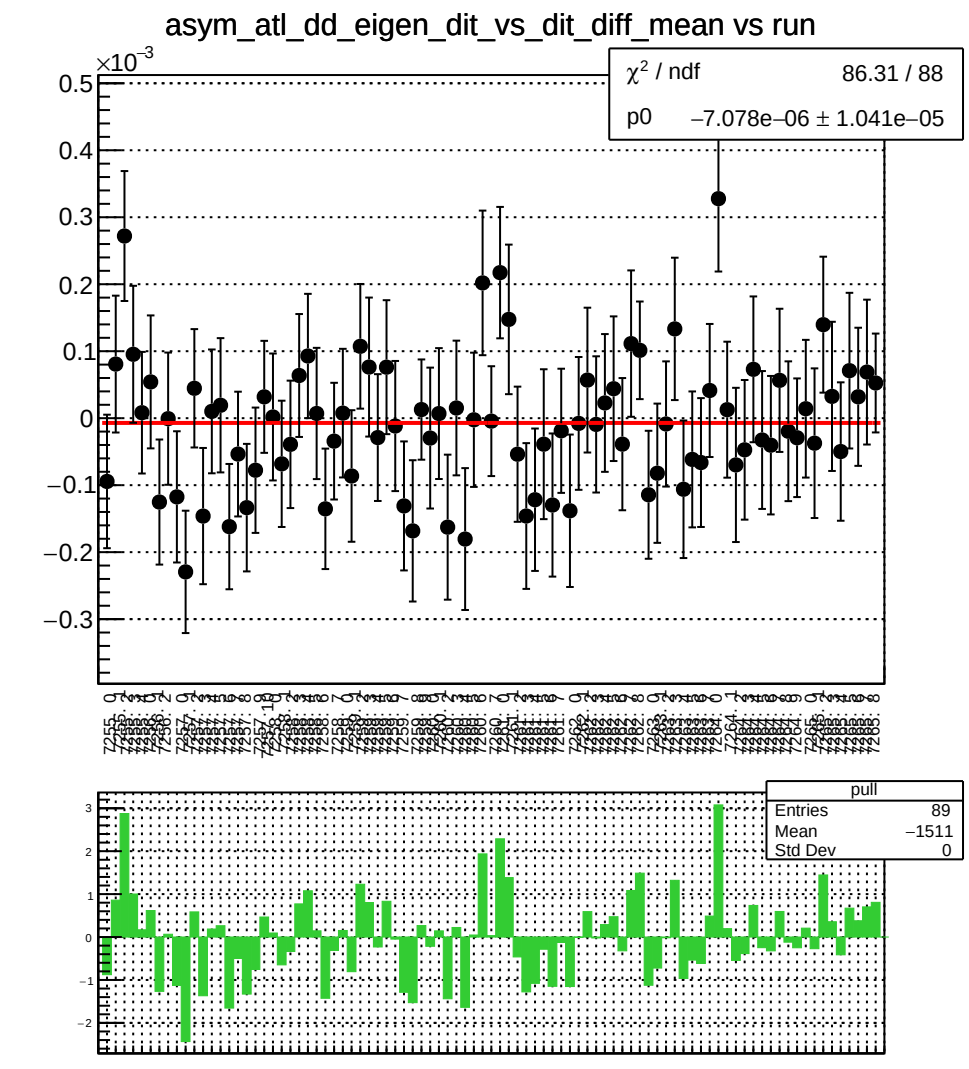

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.56 / 88
p0 0.3143 ± 0.3754
pull
Entries 89
Mean −43.94
Std Dev 0

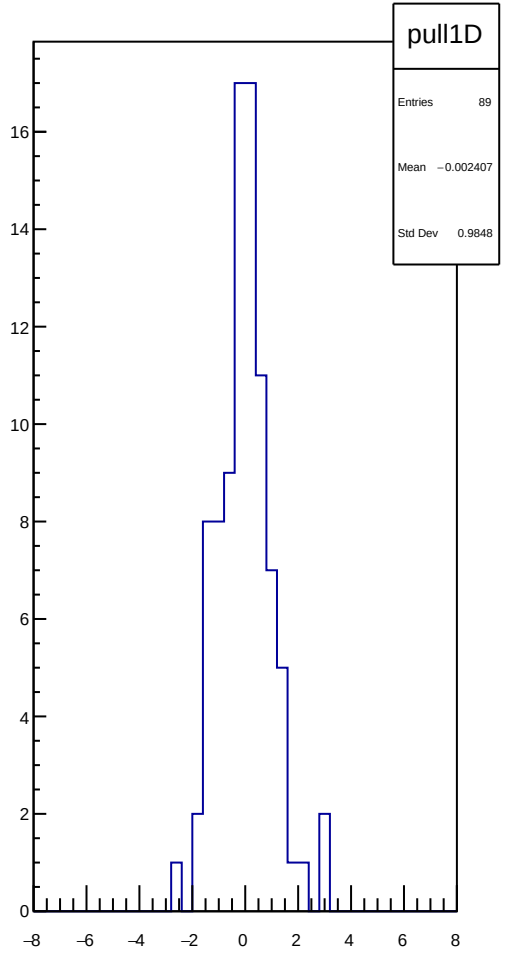

pull1D
Entries 89
Mean 0.02975
Std Dev 1.019

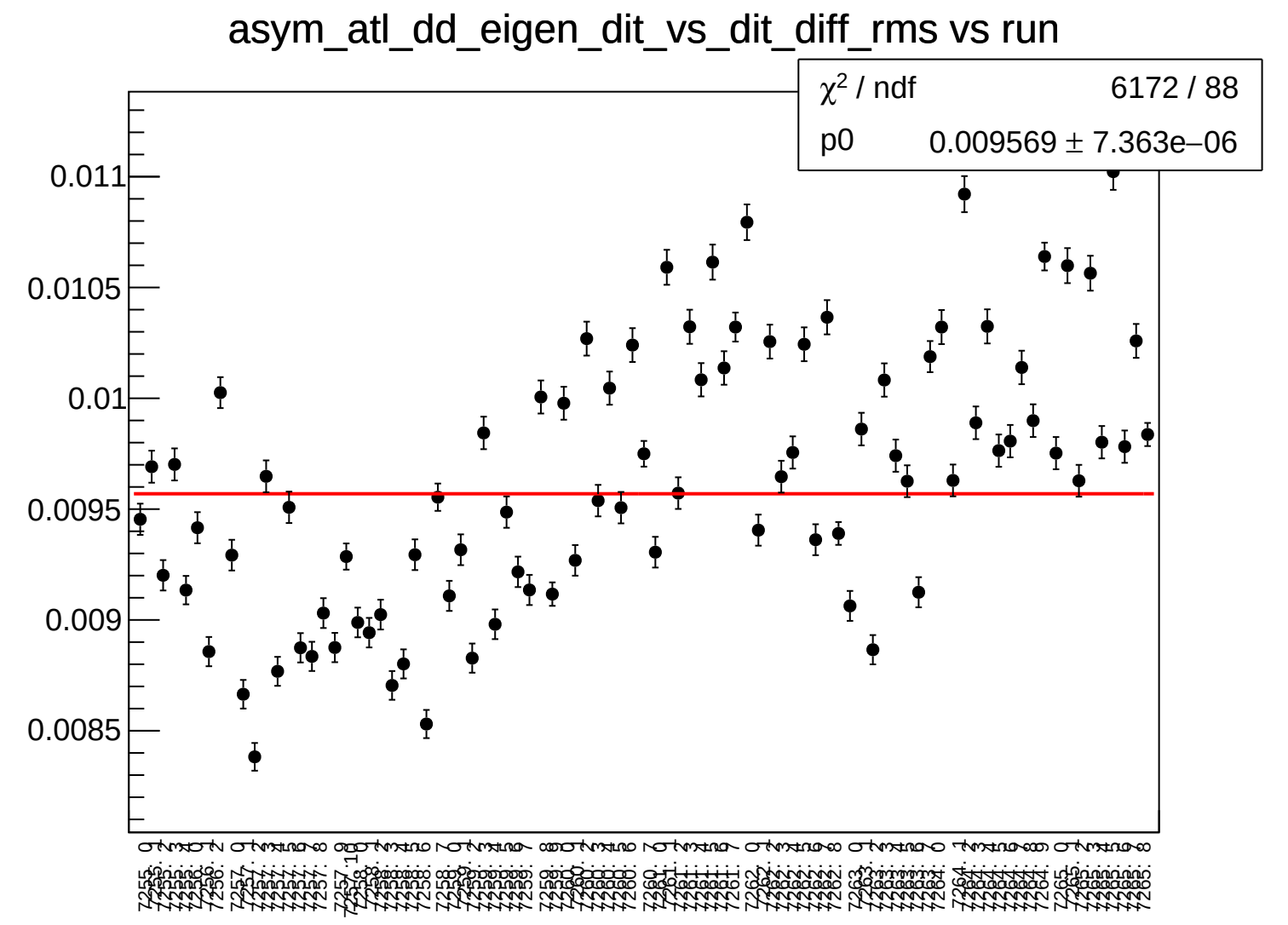

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.173e+05 / 88
p0 333.4 ± 0.2655
550
500
450
400
350
300
250
200

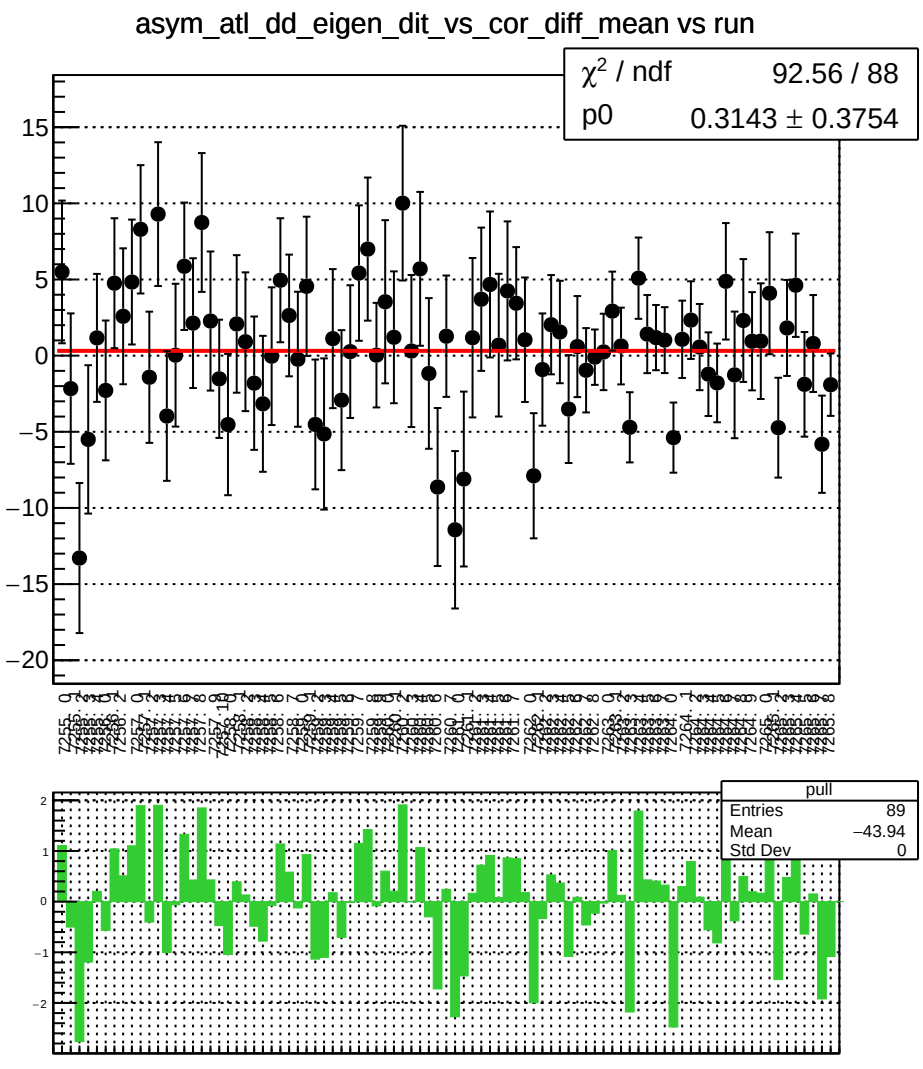

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.56 / 88
p0 0.3143 ± 0.3754
pull
Entries 89
Mean −43.94
Std Dev 0
pull1D
Entries 89
Mean 0.02975
Std Dev 1.019

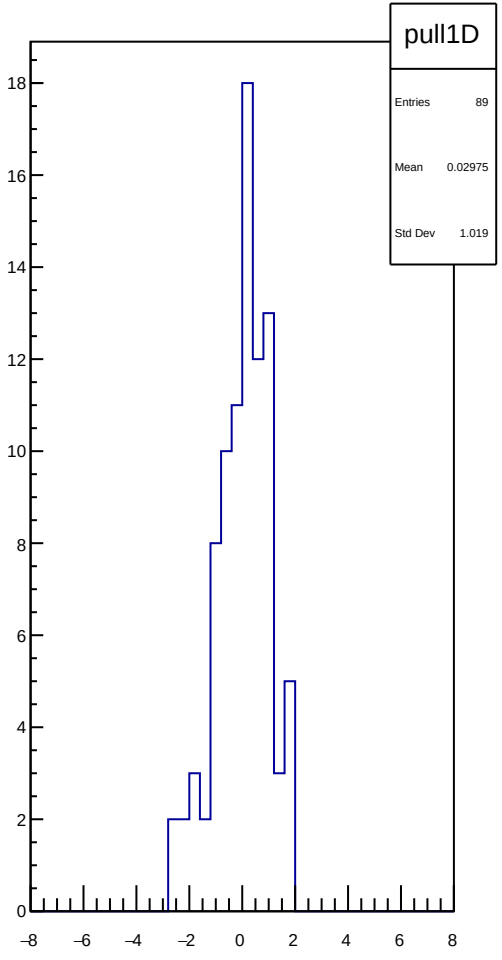

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.173e+05 / 88
p0 333.4 ± 0.2655
550
500
450
400
350
300
250
200

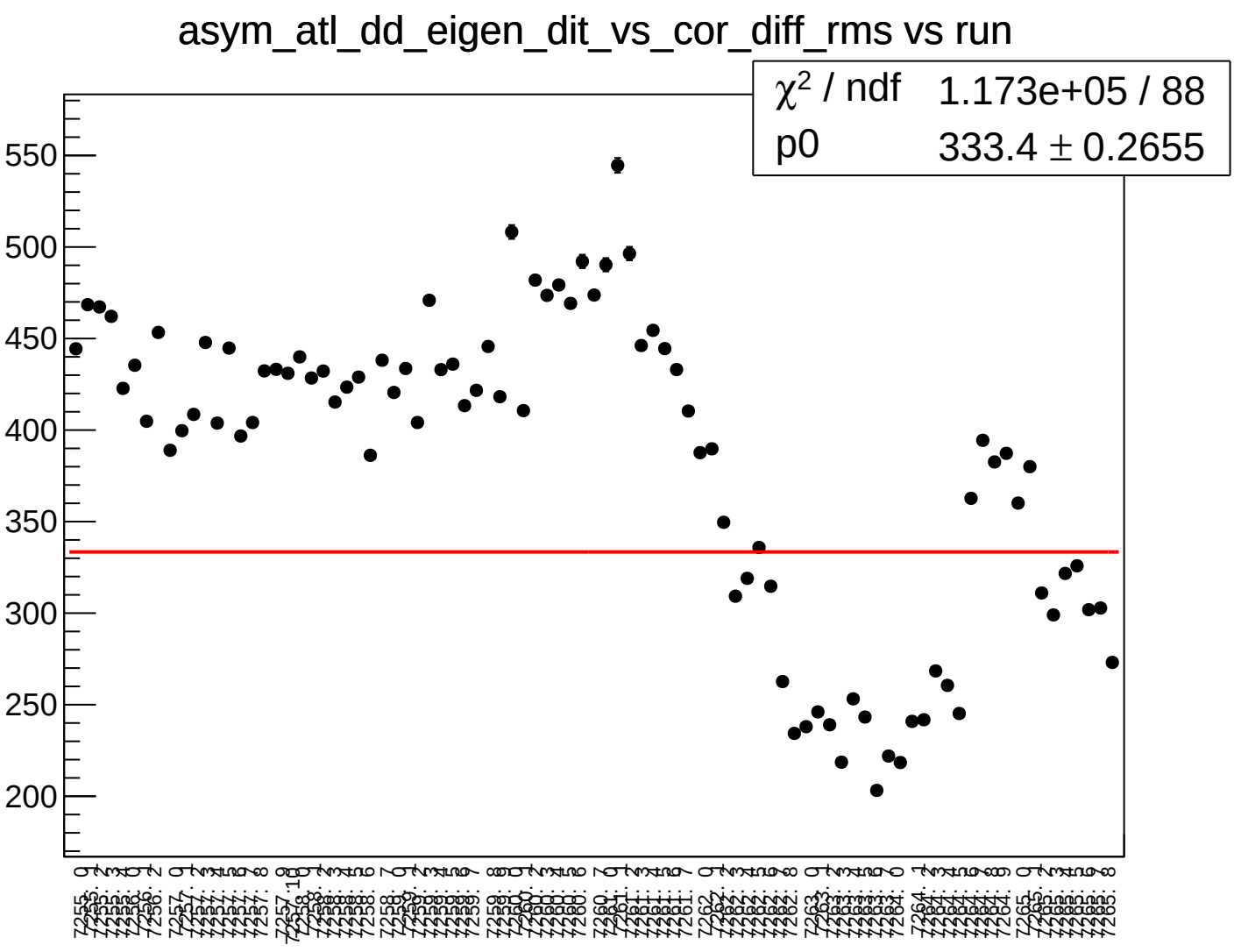

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.31 / 88
p0 −7.078e−06 ± 1.041e−05
pull
Entries 89
Mean −1511
Std Dev 0

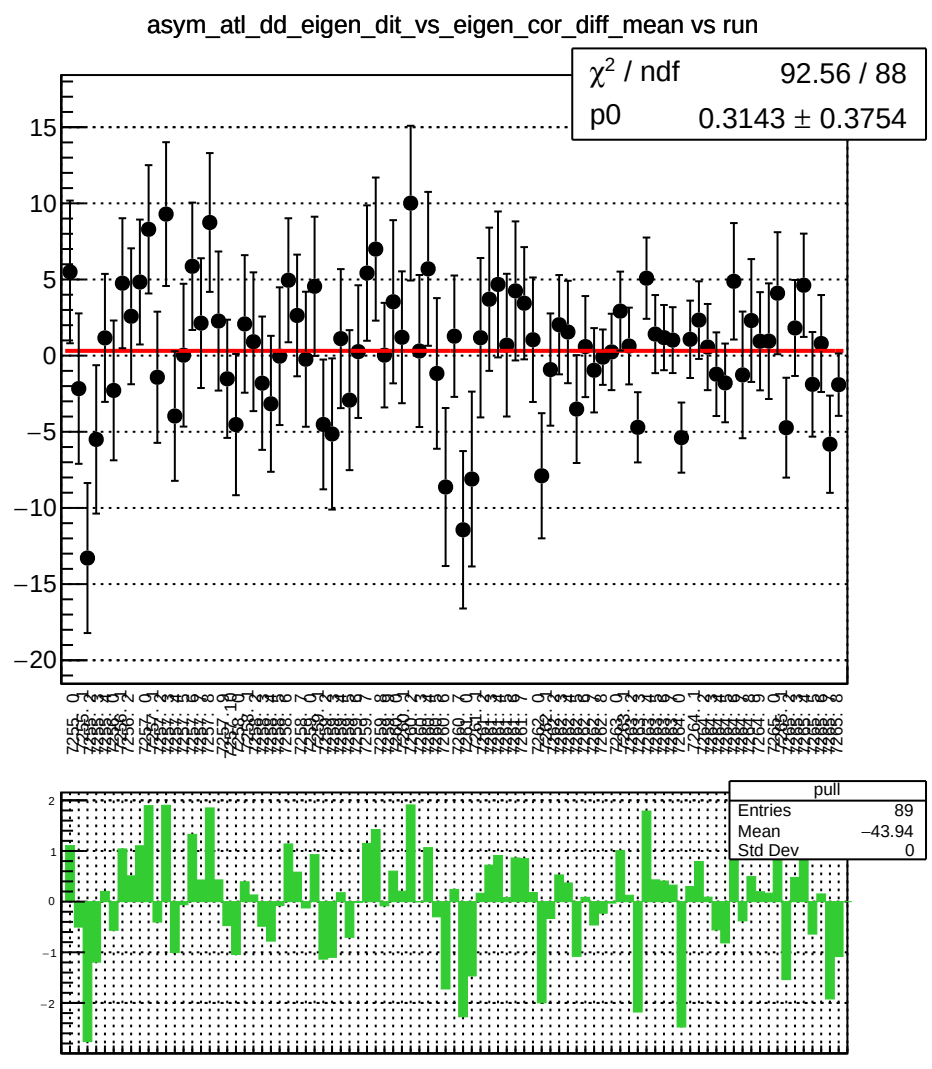

pull1D
Entries 89
Mean −0.002407
Std Dev 0.9848

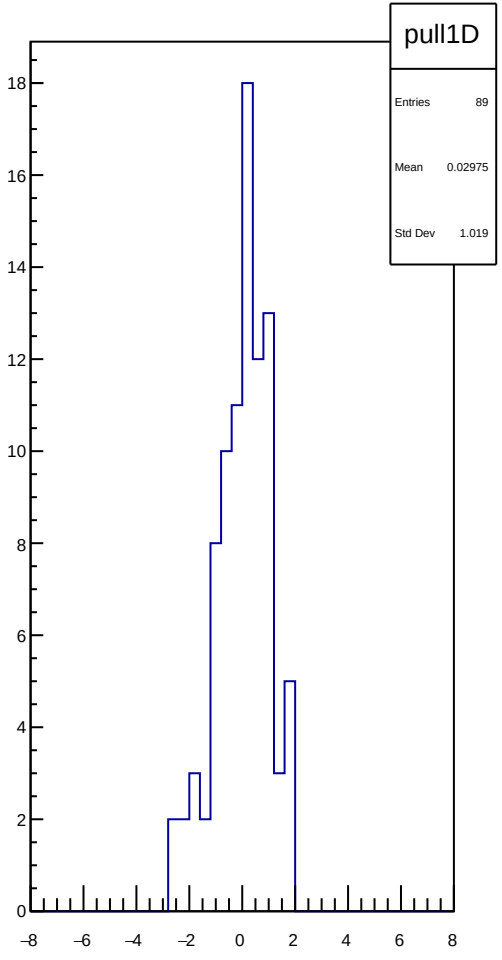

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6172 / 88
p0 0.009569 ± 7.363e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085

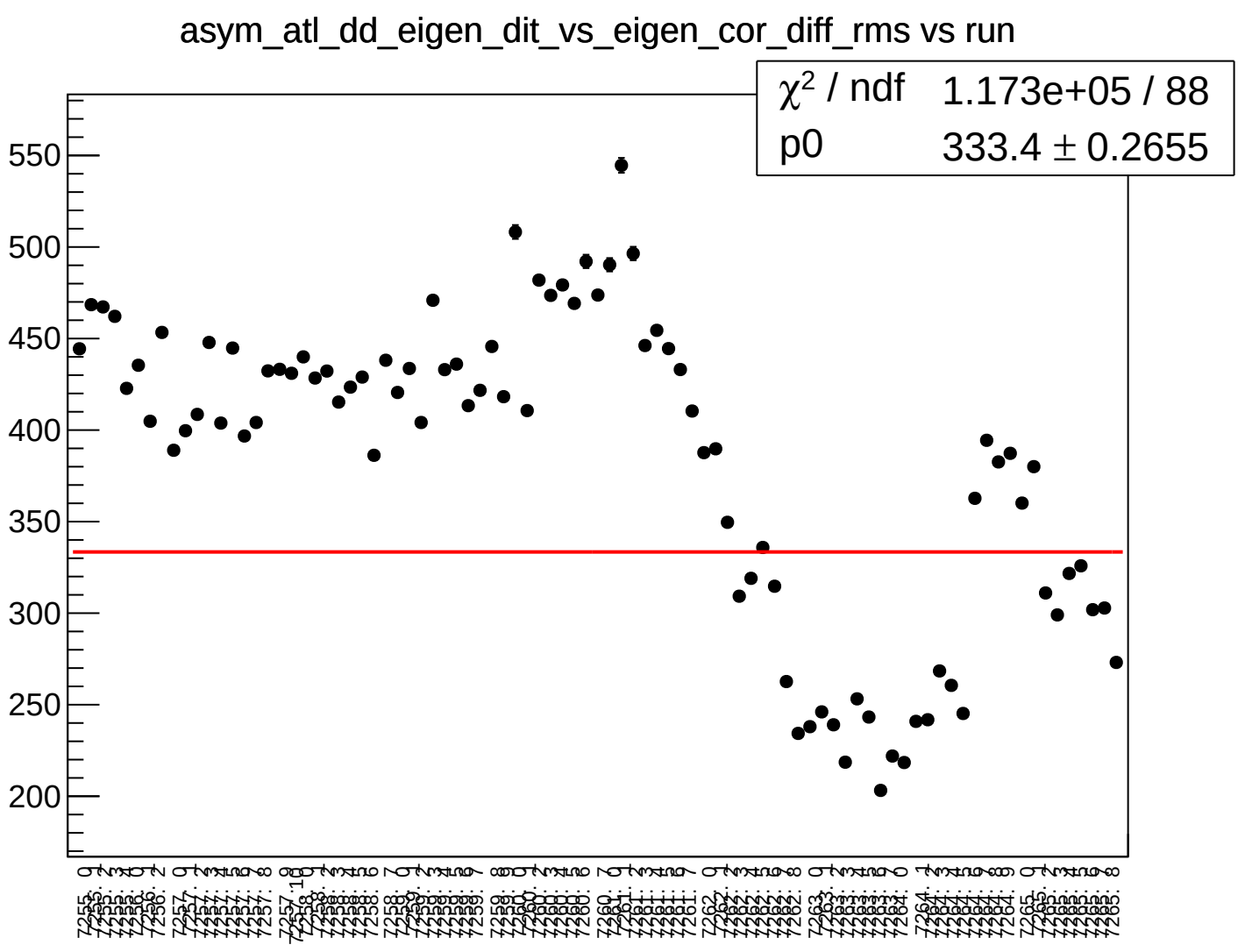

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.56 / 88
p0 0.3143 ± 0.3754
pull
Entries 89
Mean −43.94
Std Dev 0

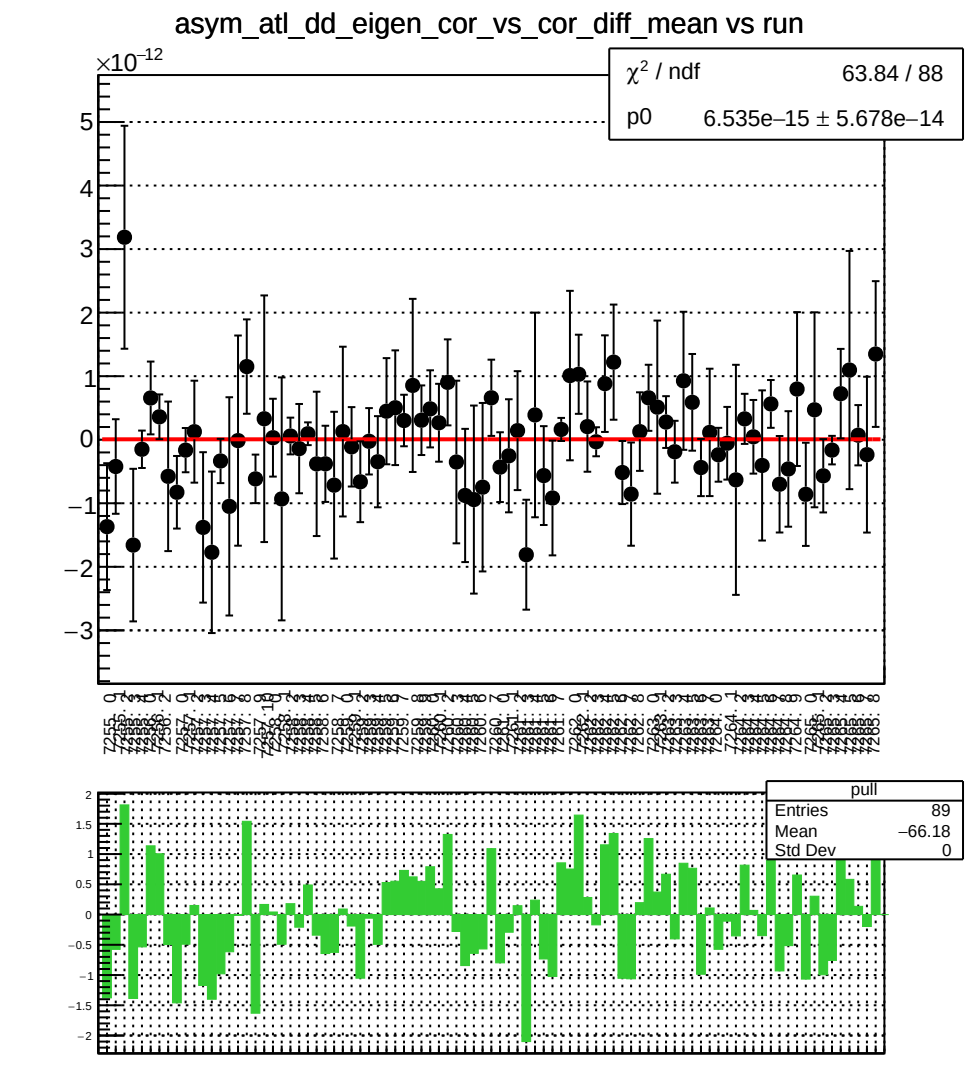

pull1D
Entries 89
Mean 0.02975
Std Dev 1.019

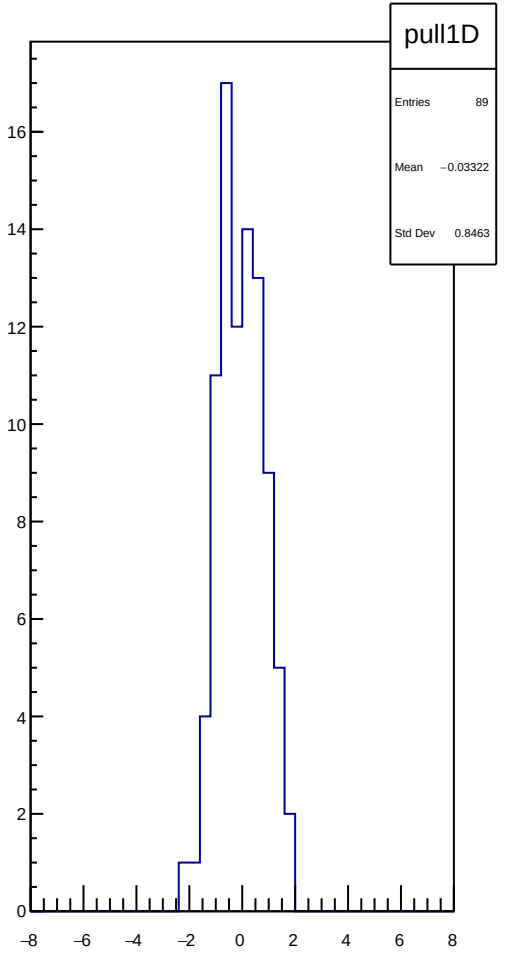

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.173e+05 / 88
p0 333.4 ± 0.2655
550
500
450
400
350
300
250
200

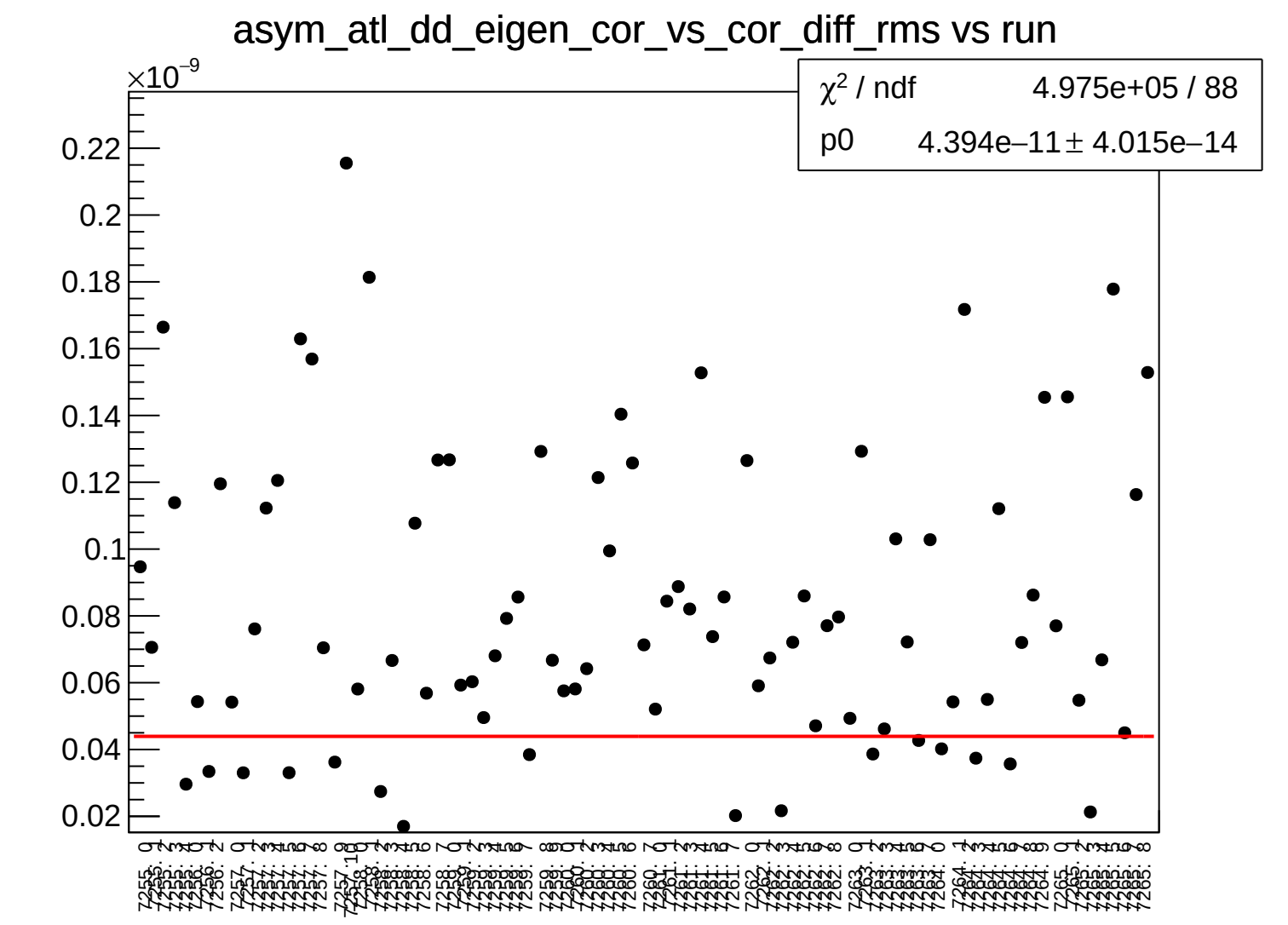

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.56 / 88
p0 0.3143 ± 0.3754
pull
Entries 89
Mean −43.94
Std Dev 0

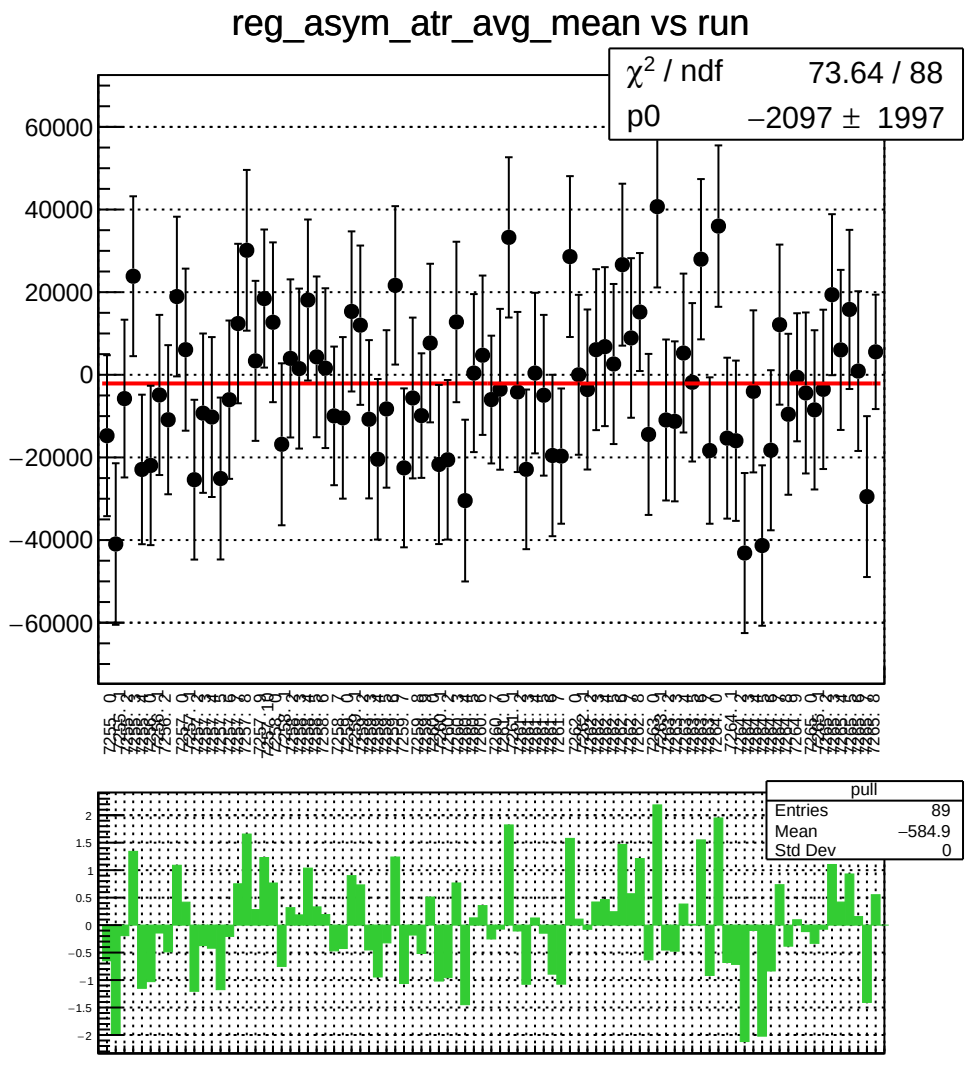

pull1D
Entries 89
Mean 0.02975
Std Dev 1.019

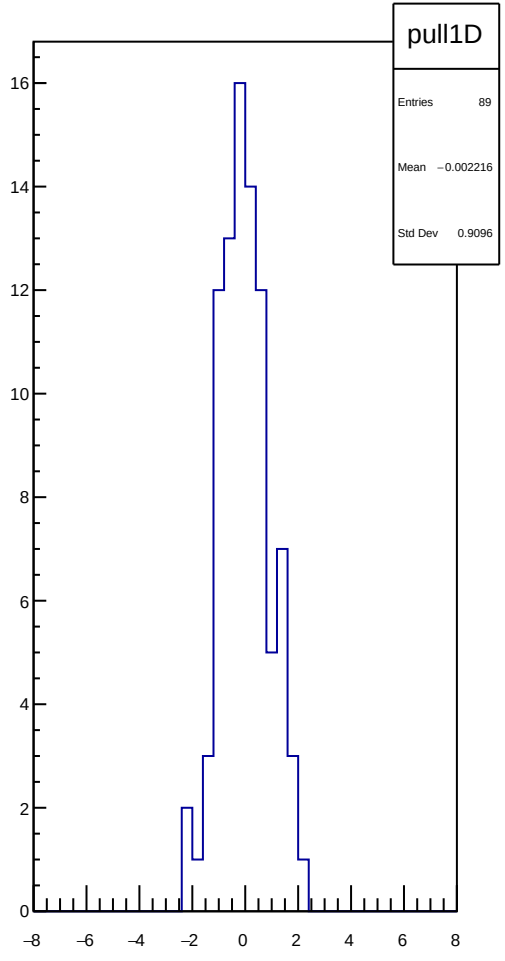

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.173e+05 / 88
p0 333.4 ± 0.2655
550
500
450
400
350
300
250
200

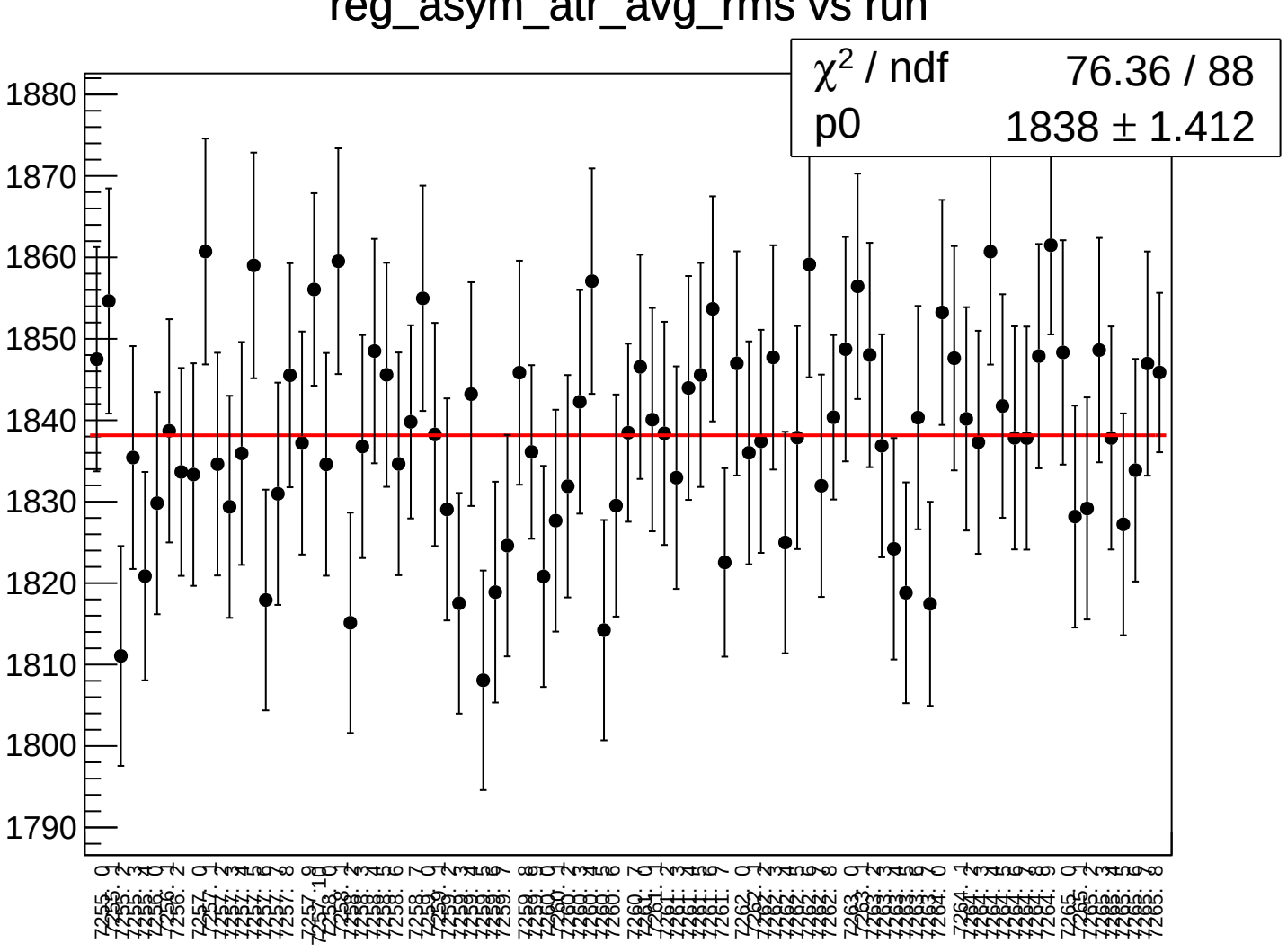

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.84 / 88
p0 6.535e−15 ± 5.678e−14
pull
Entries 89
Mean −66.18
Std Dev 0

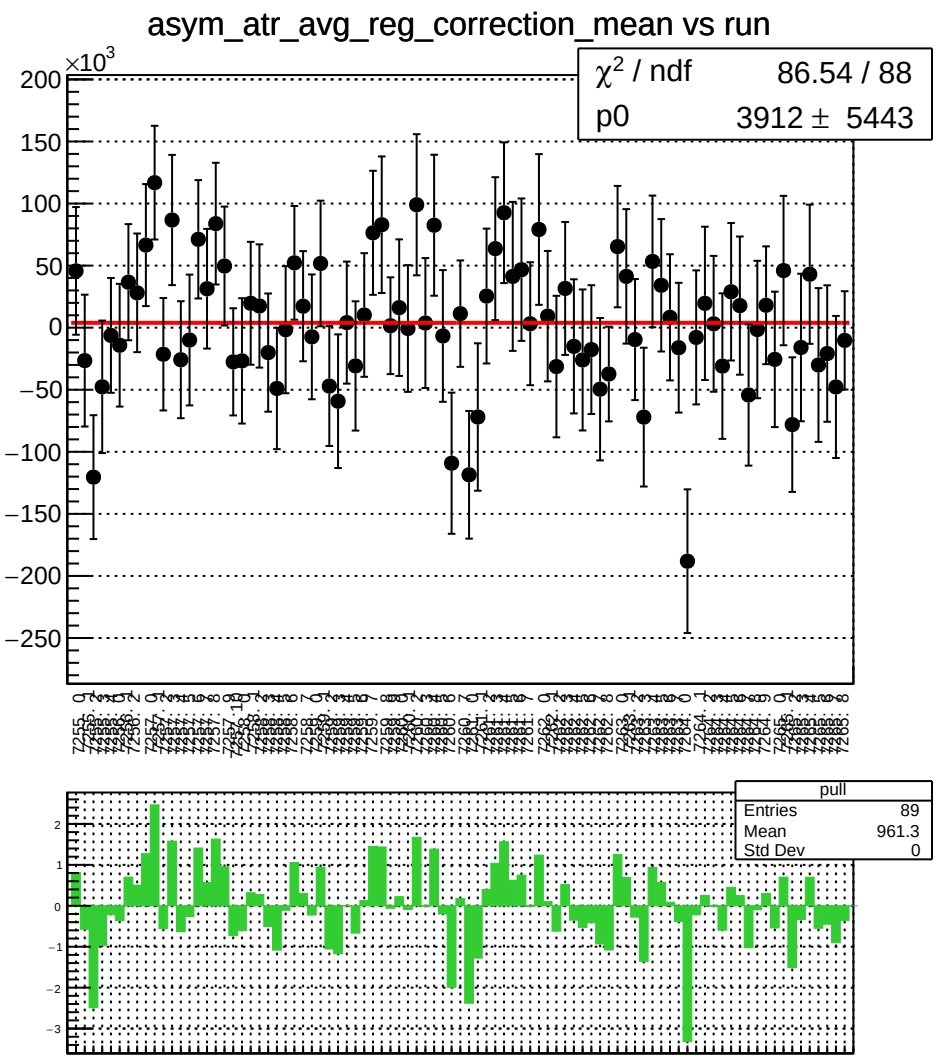

pull1D
Entries 89
Mean −0.03322
Std Dev 0.8463

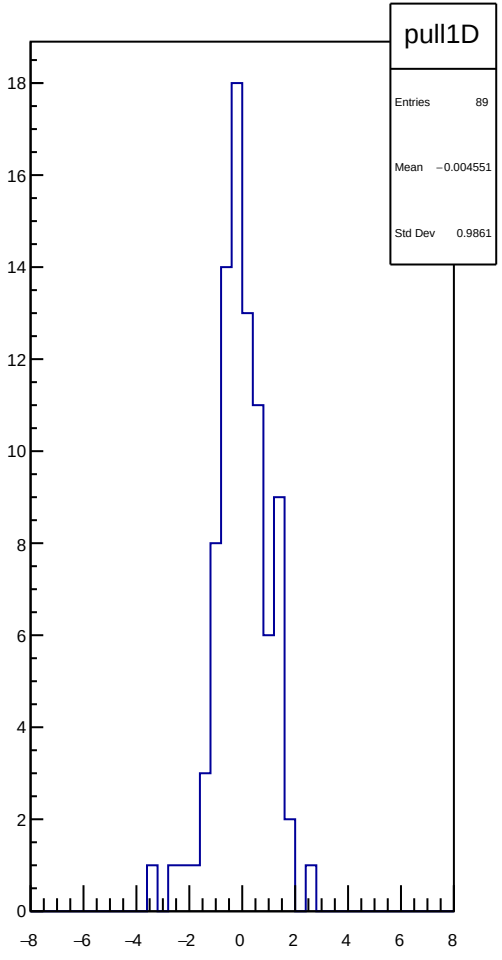

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.975e+05 / 88
p0 4.394e−11 ± 4.015e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

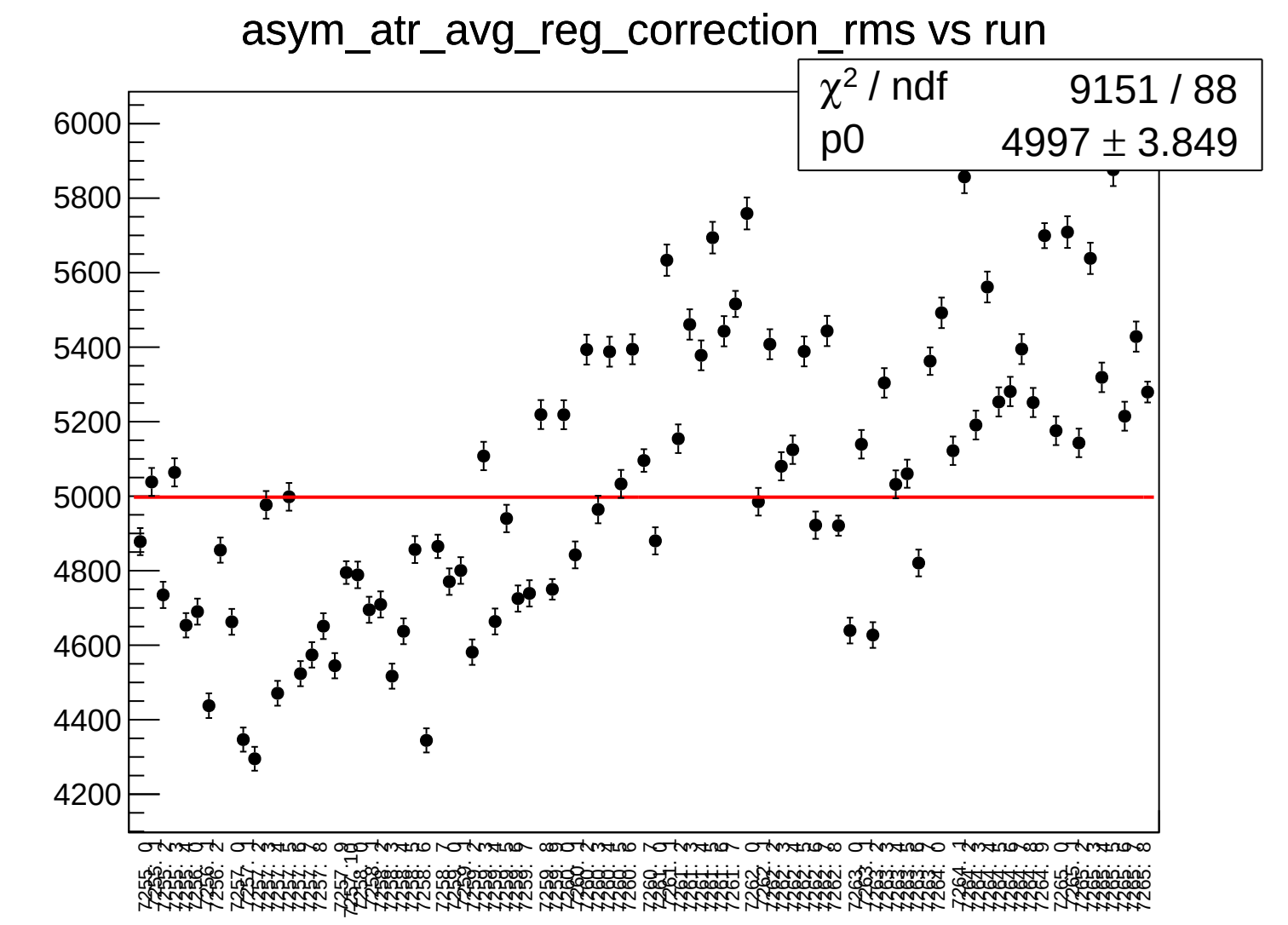

reg_asym_atr_avg_mean vs run
χ² / ndf 73.64 / 88
p0 −2097 ± 1997
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −584.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

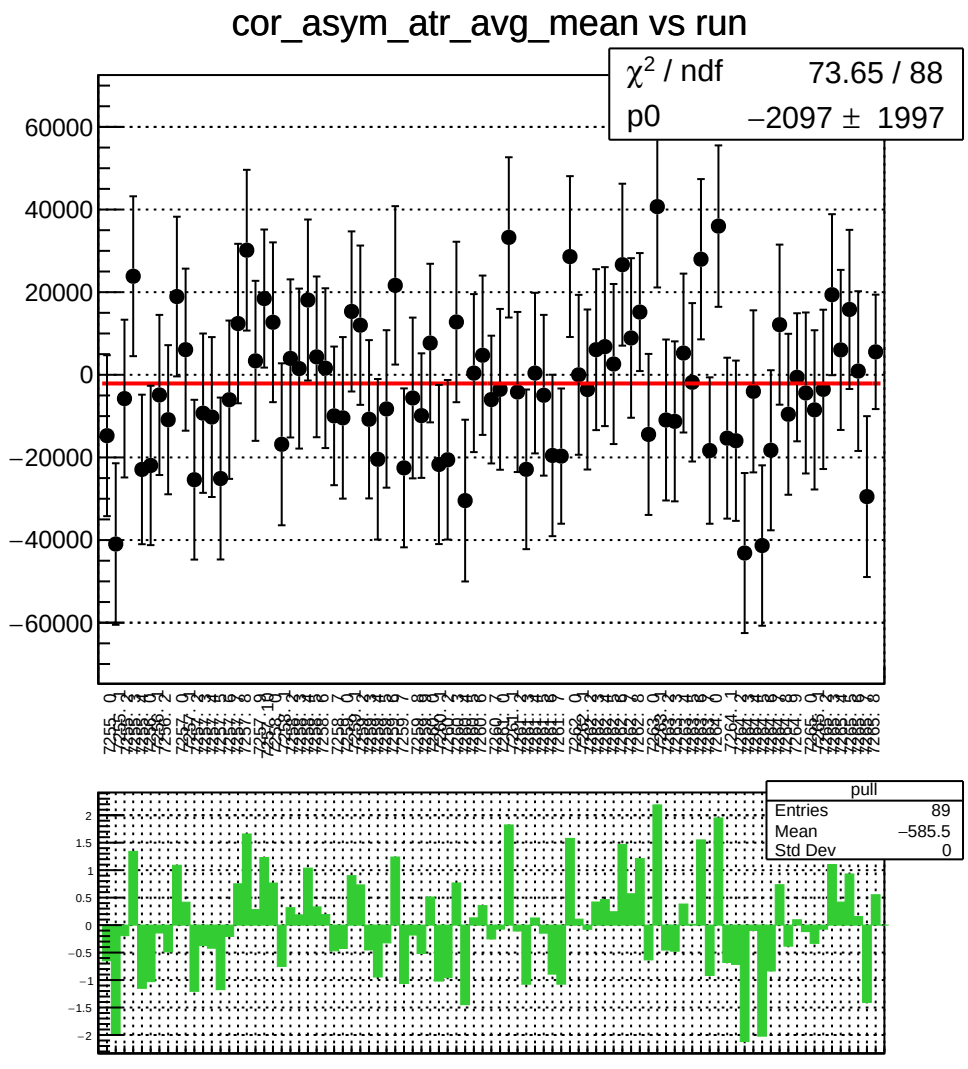

pull1D
Entries 89
Mean −0.002216
Std Dev 0.9096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

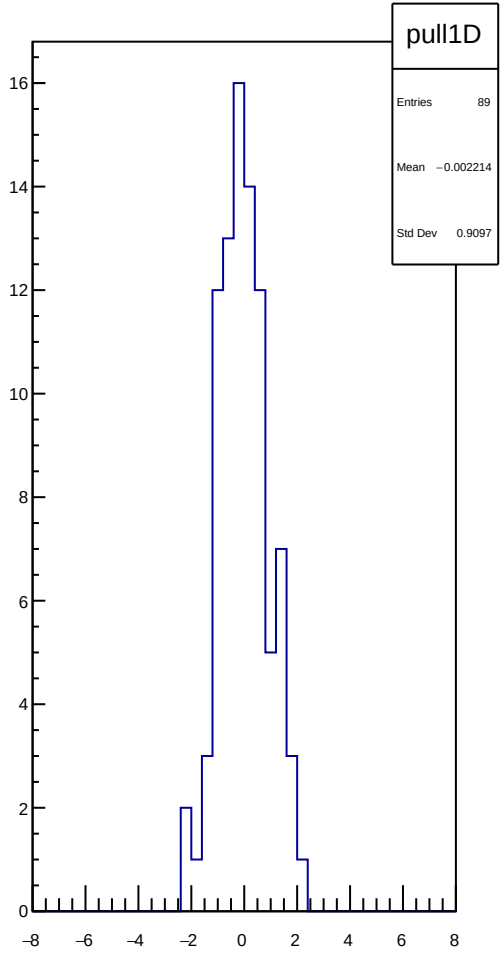

reg_asym_atr_avg_rms vs run
χ² / ndf 76.36 / 88
p0 1838 ± 1.412
1880
1870
1860
1850
1840
1830
1820
1810
1800
1790

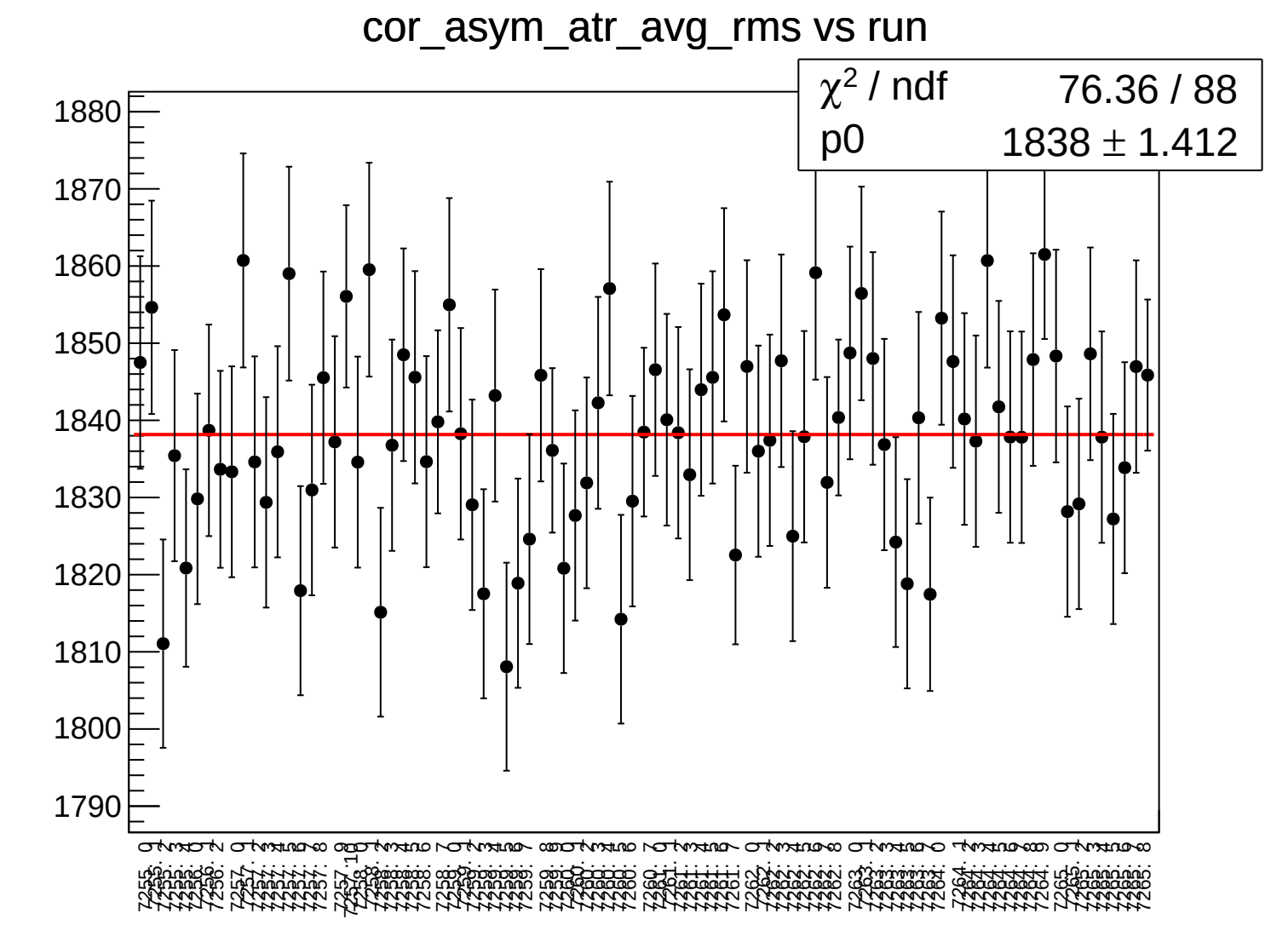

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.54 / 88
p0 3912 ± 5443
pull
Entries 89
Mean 961.3
Std Dev 0

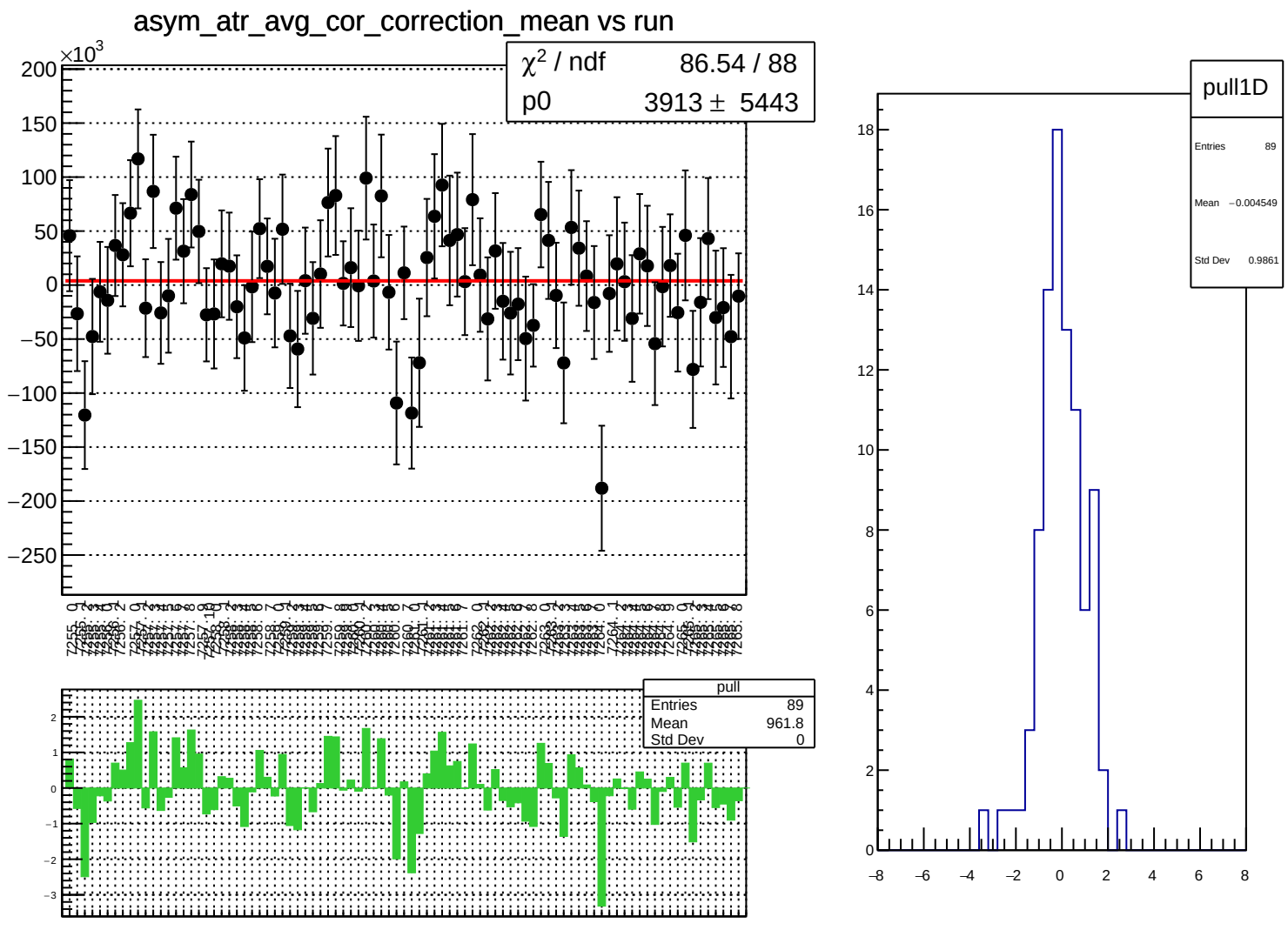

pull1D
Entries 89
Mean −0.004551
Std Dev 0.9861

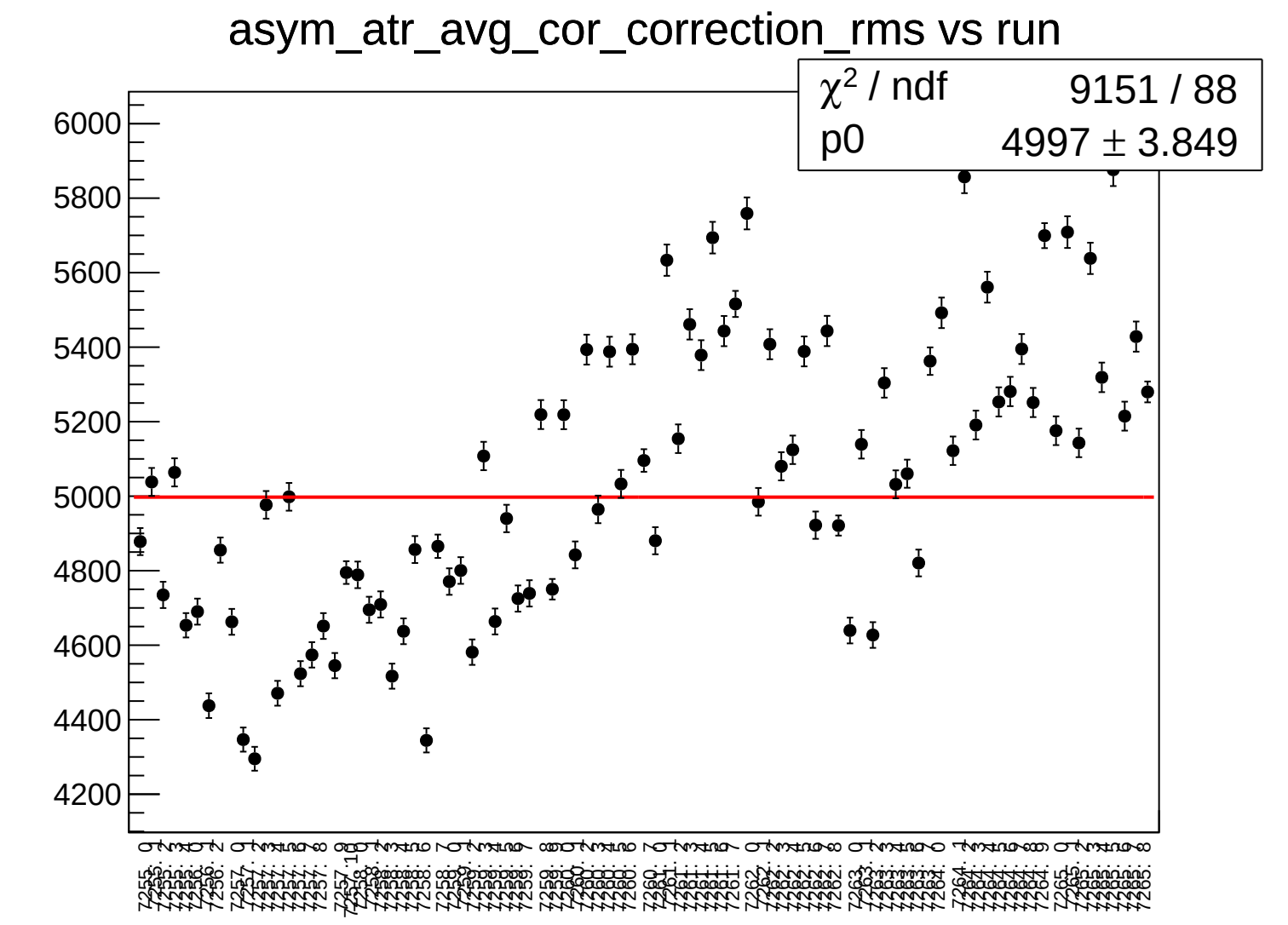

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 9151 / 88
p0 4997 ± 3.849
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

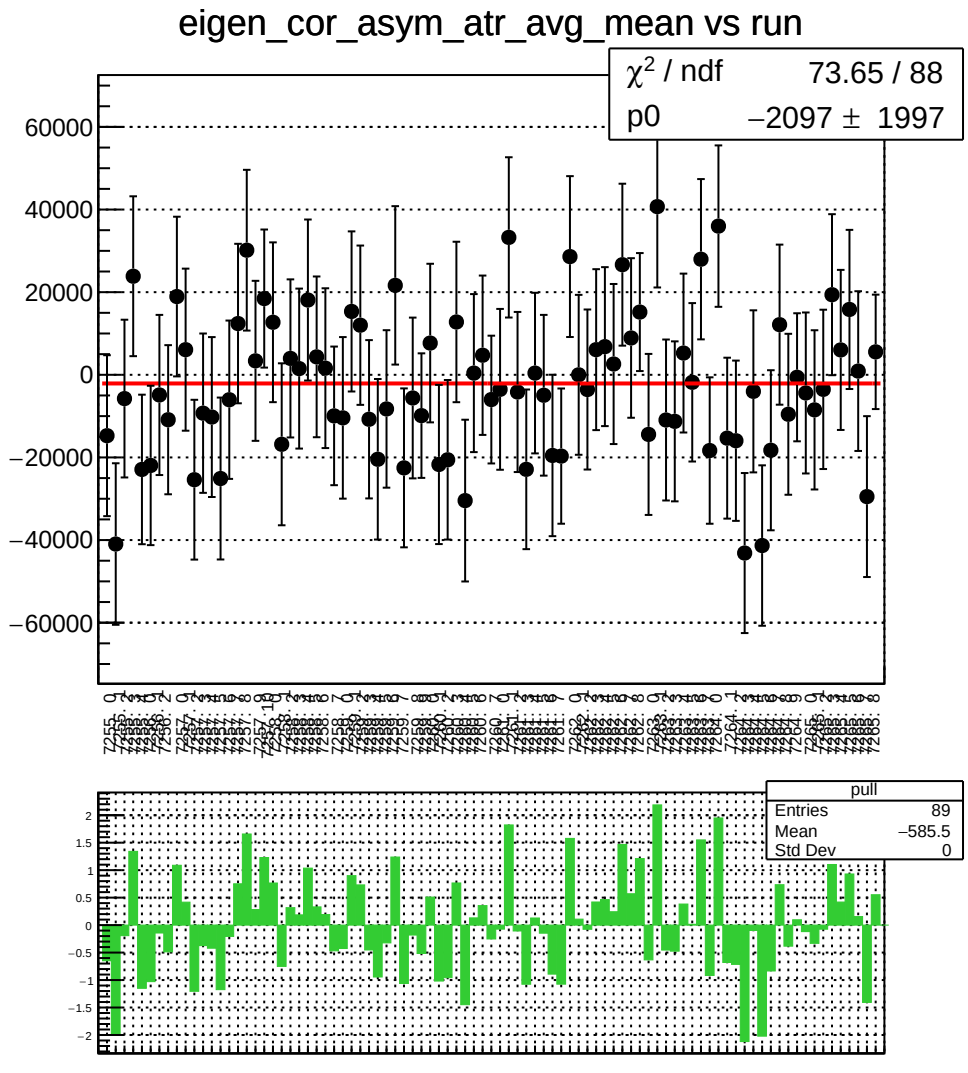

cor_asym_atr_avg_mean vs run
χ² / ndf 73.65 / 88
p0 −2097 ± 1997
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −585.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

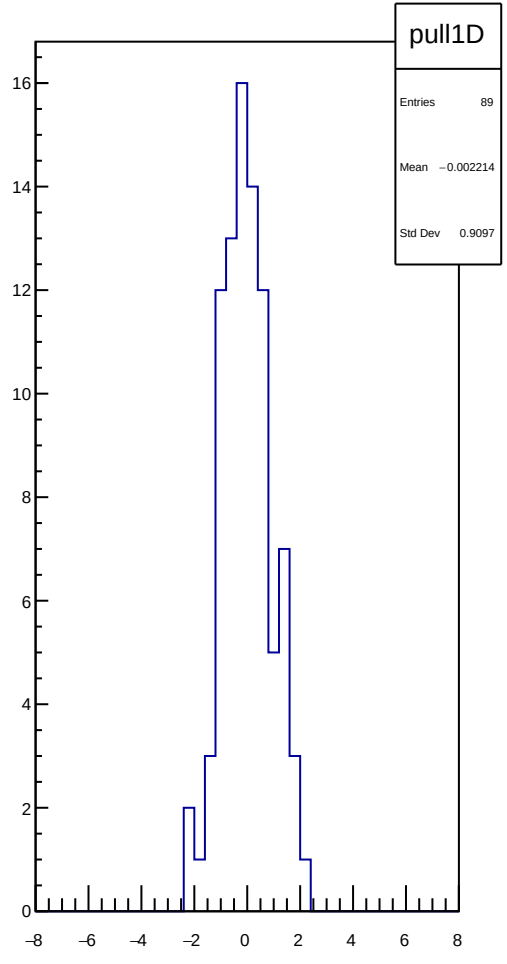

pull1D
Entries 89
Mean −0.002214
Std Dev 0.9097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

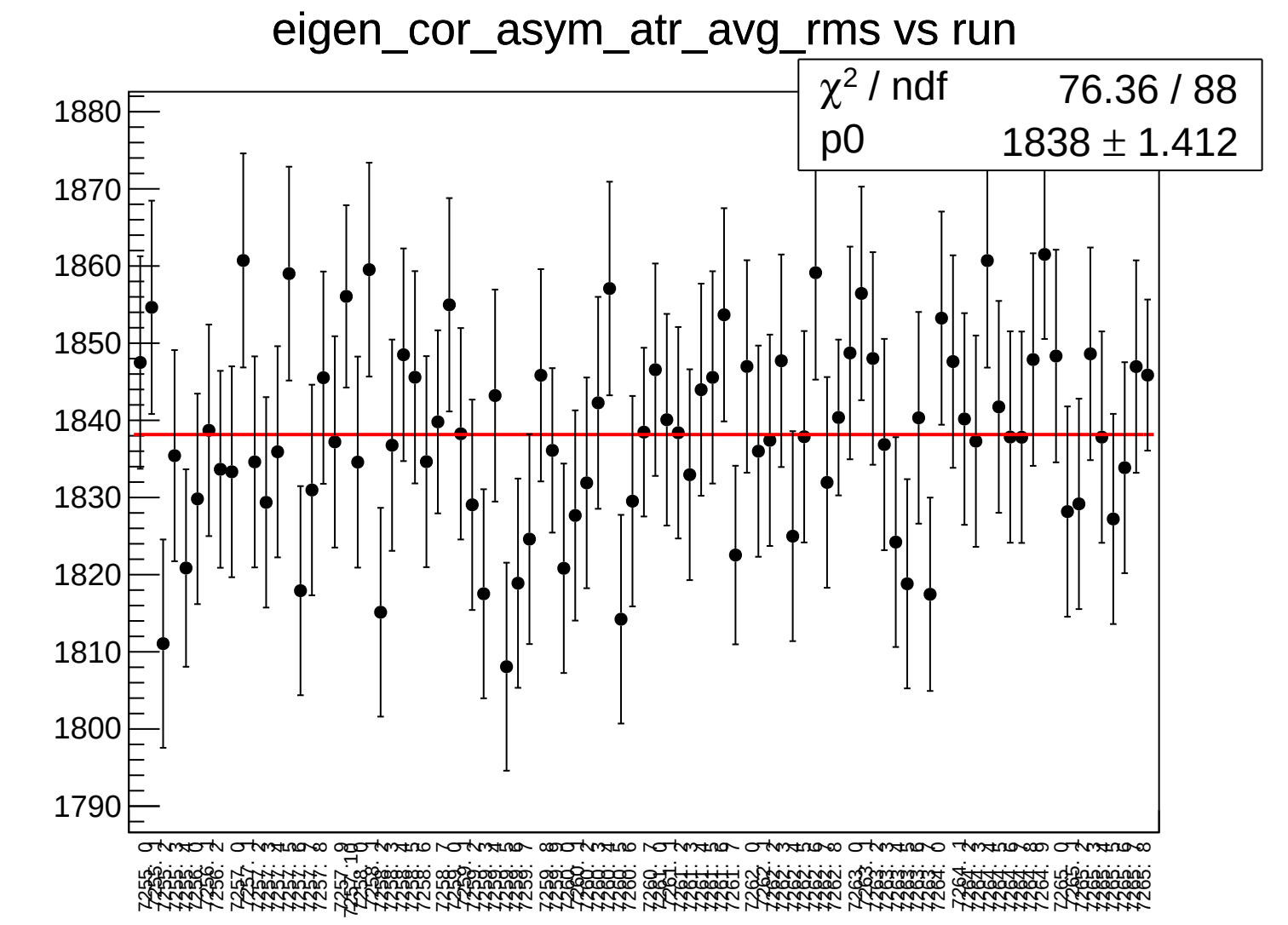

cor_asym_atr_avg_rms vs run
χ² / ndf 76.36 / 88
p0 1838 ± 1.412
1880
1870
1860
1850
1840
1830
1820
1810
1800
1790

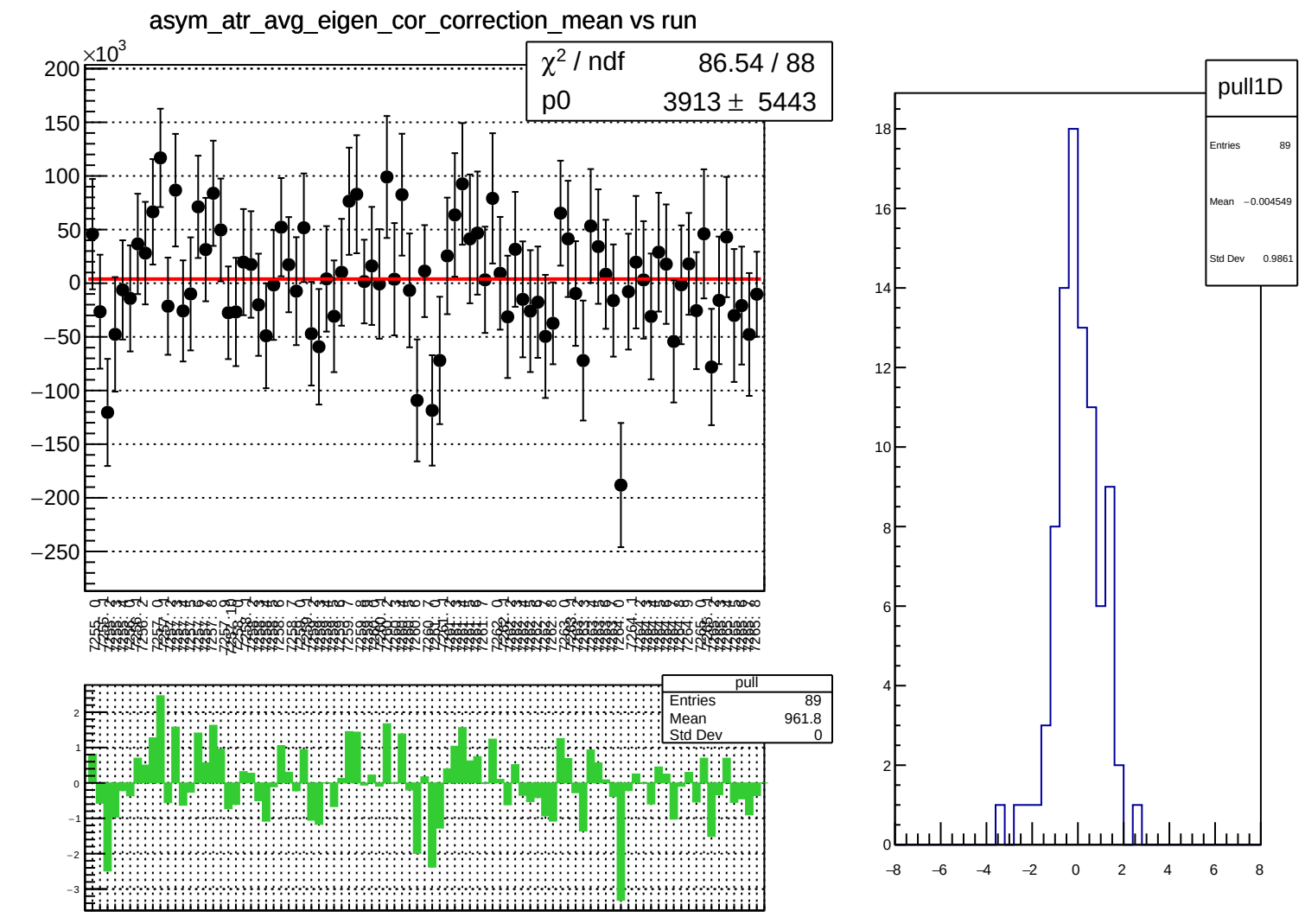

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.54 / 88
p0 3913 ± 5443
pull
Entries 89
Mean 961.8
Std Dev 0
pull1D
Entries 89
Mean −0.004549
Std Dev 0.9861

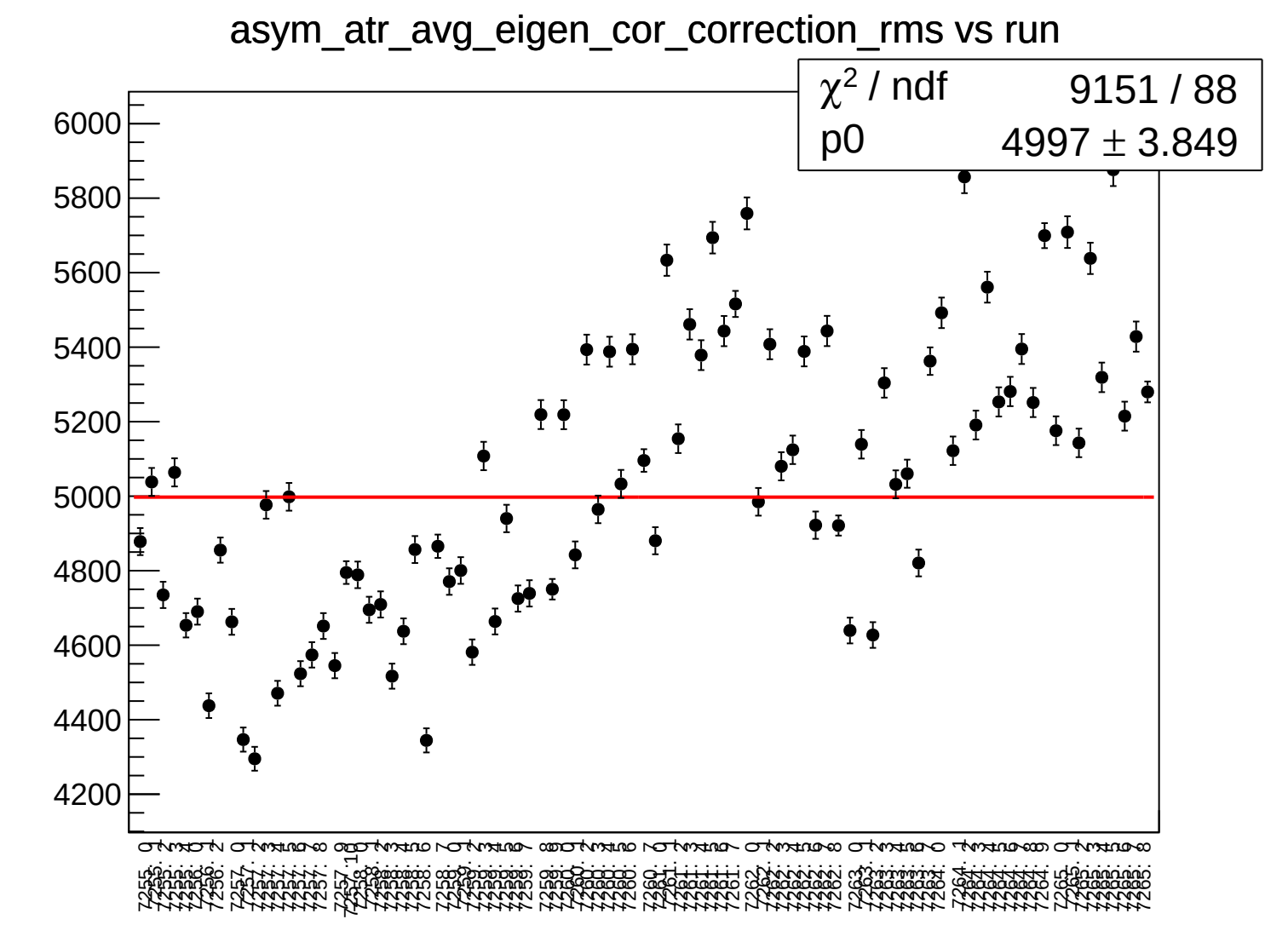

asym_atr_avg_cor_correction_rms vs run
χ^2 / ndf 9151 / 88
p0 4997 ± 3.849
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

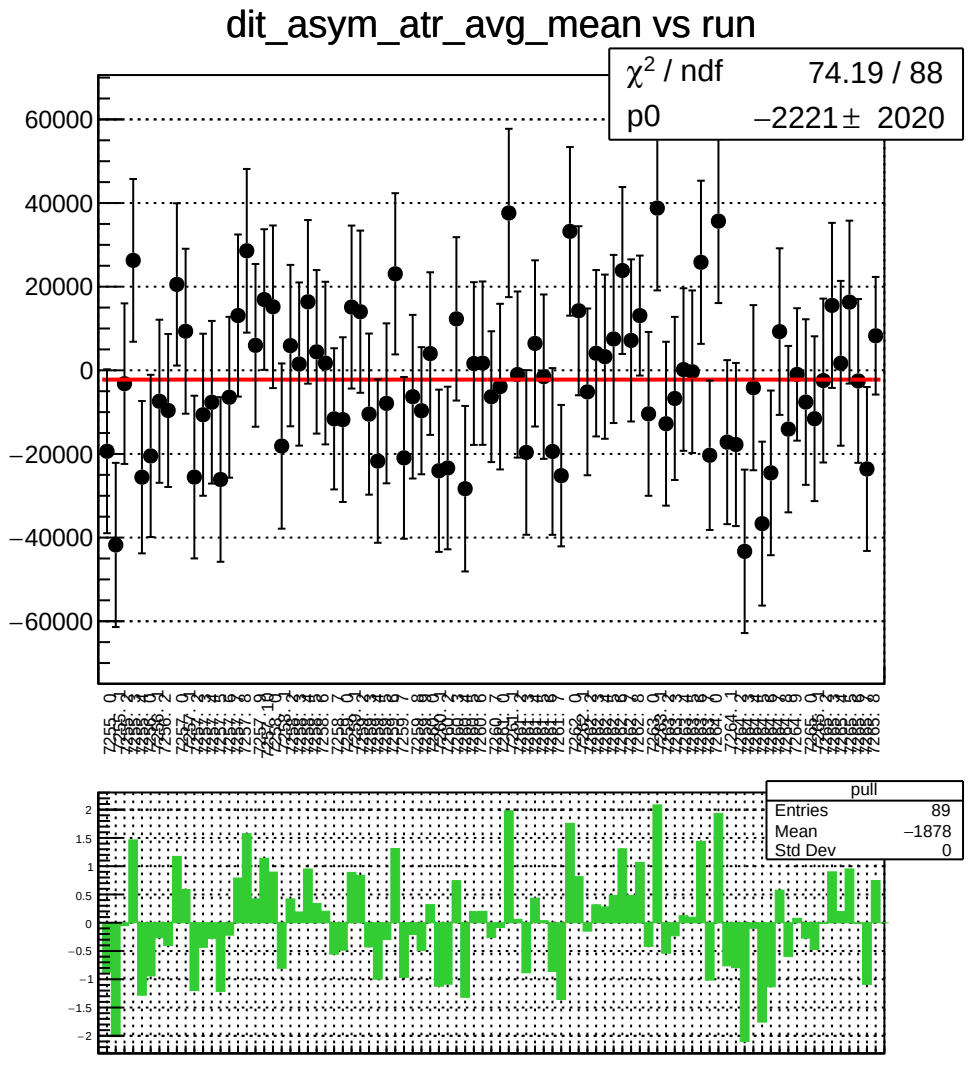

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 73.65 / 88
p0 −2097 ± 1997
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −585.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

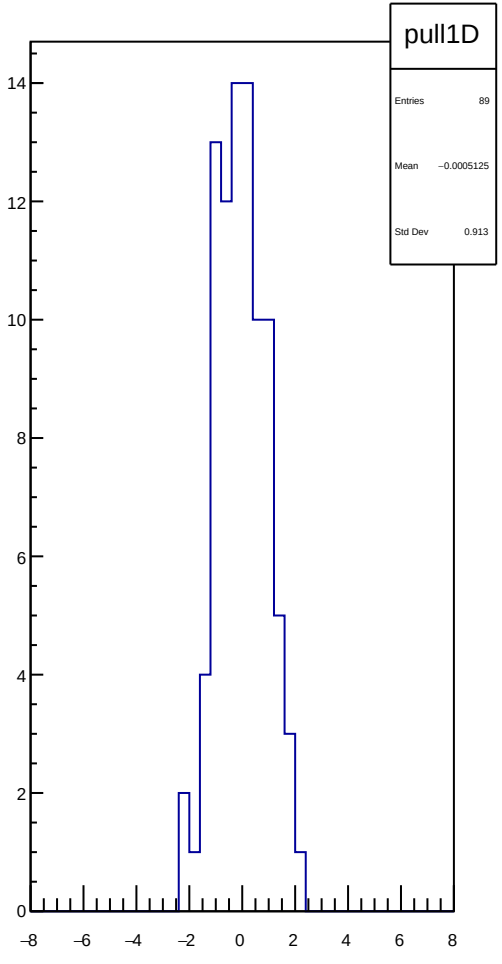

pull1D
Entries 89
Mean −0.002214
Std Dev 0.9097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

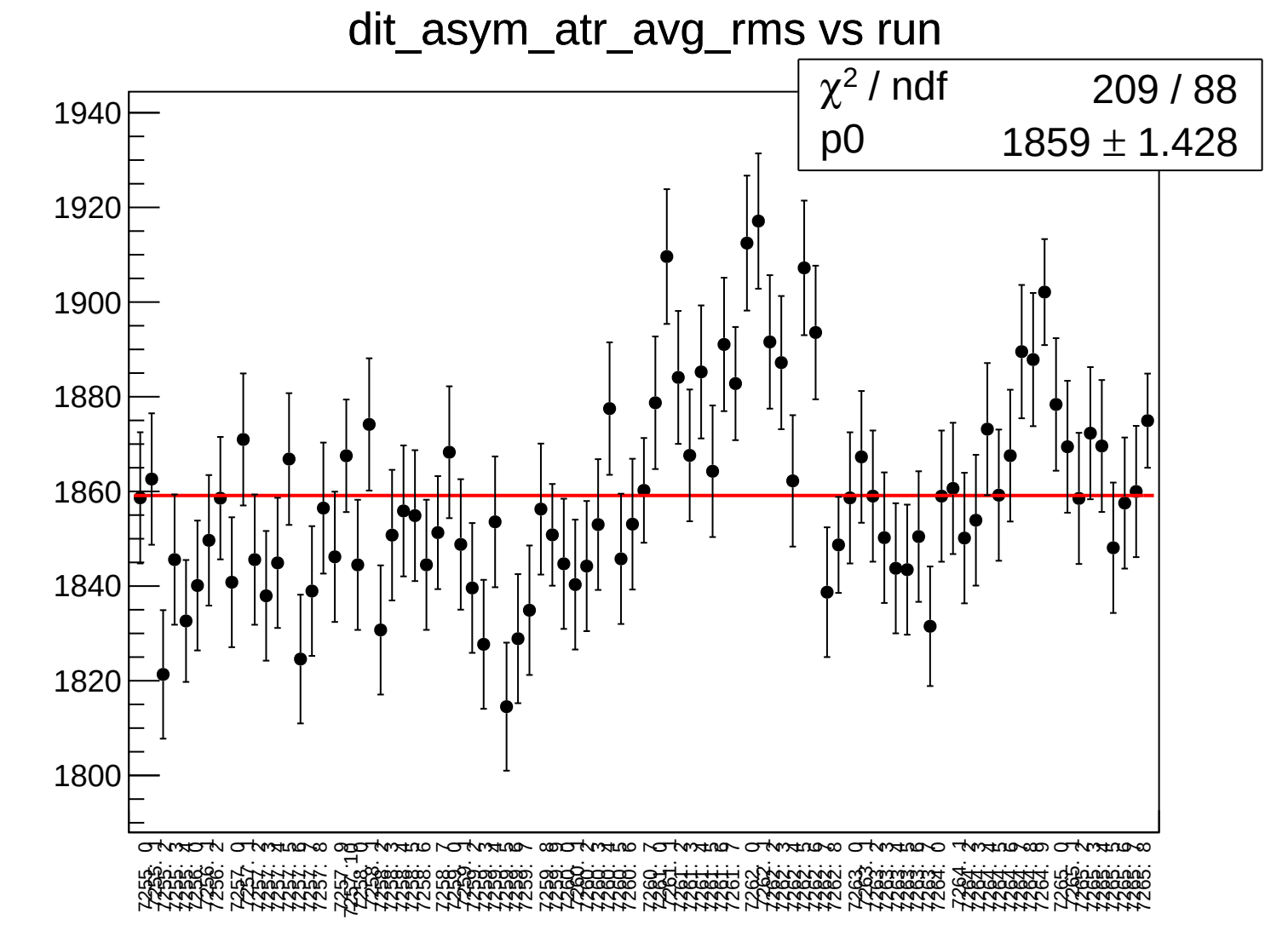

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 76.36 / 88
p0 1838 ± 1.412
1880
1870
1860
1850
1840
1830
1820
1810
1800
1790

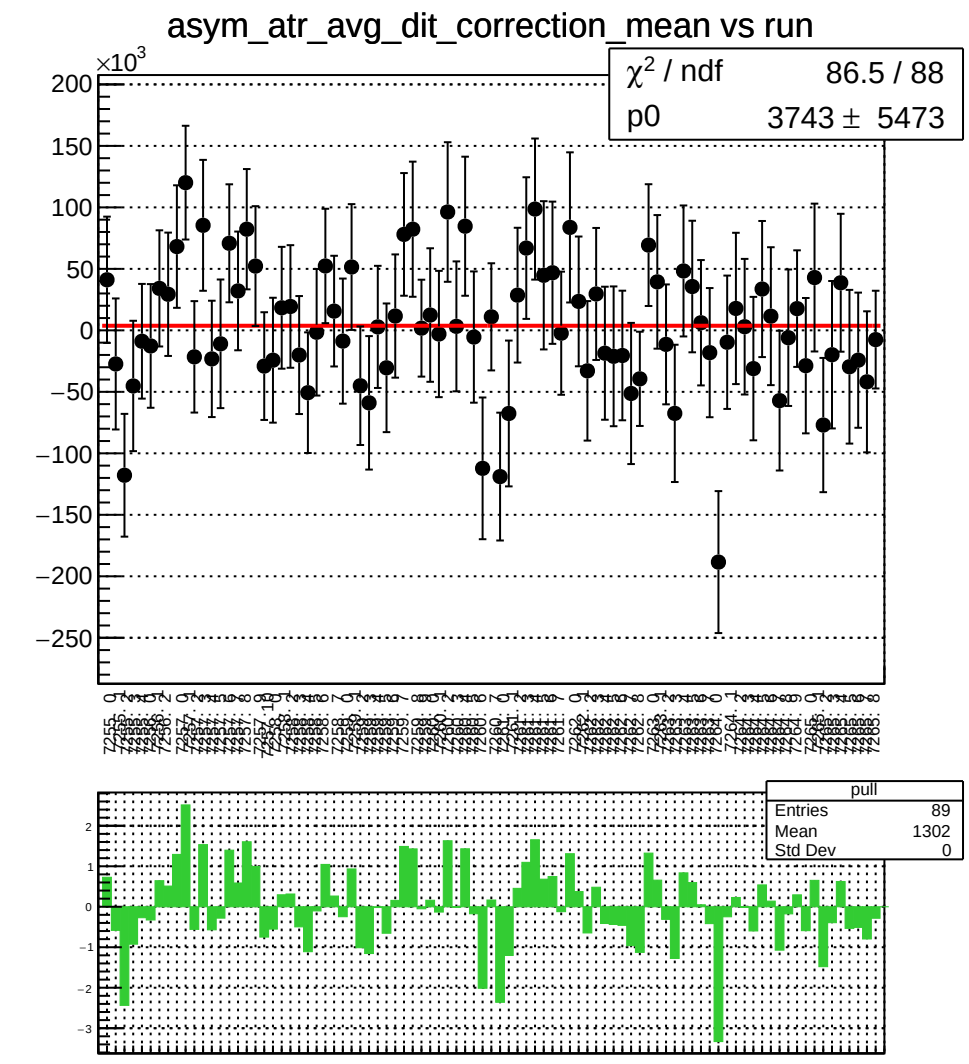

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.54 / 88
p0 3913 ± 5443
pull
Entries 89
Mean 961.8
Std Dev 0
pull1D
Entries 89
Mean −0.004549
Std Dev 0.9861

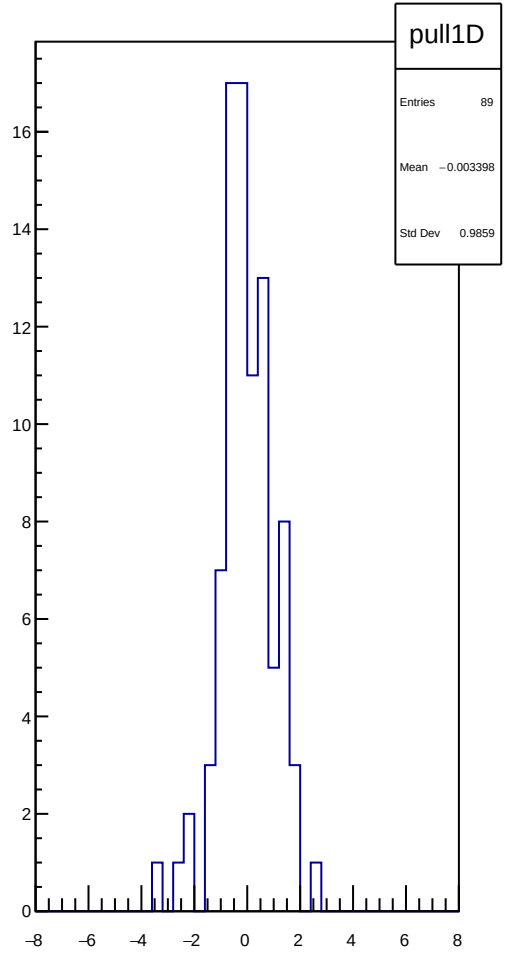

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 9151 / 88
p0 4997 ± 3.849
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

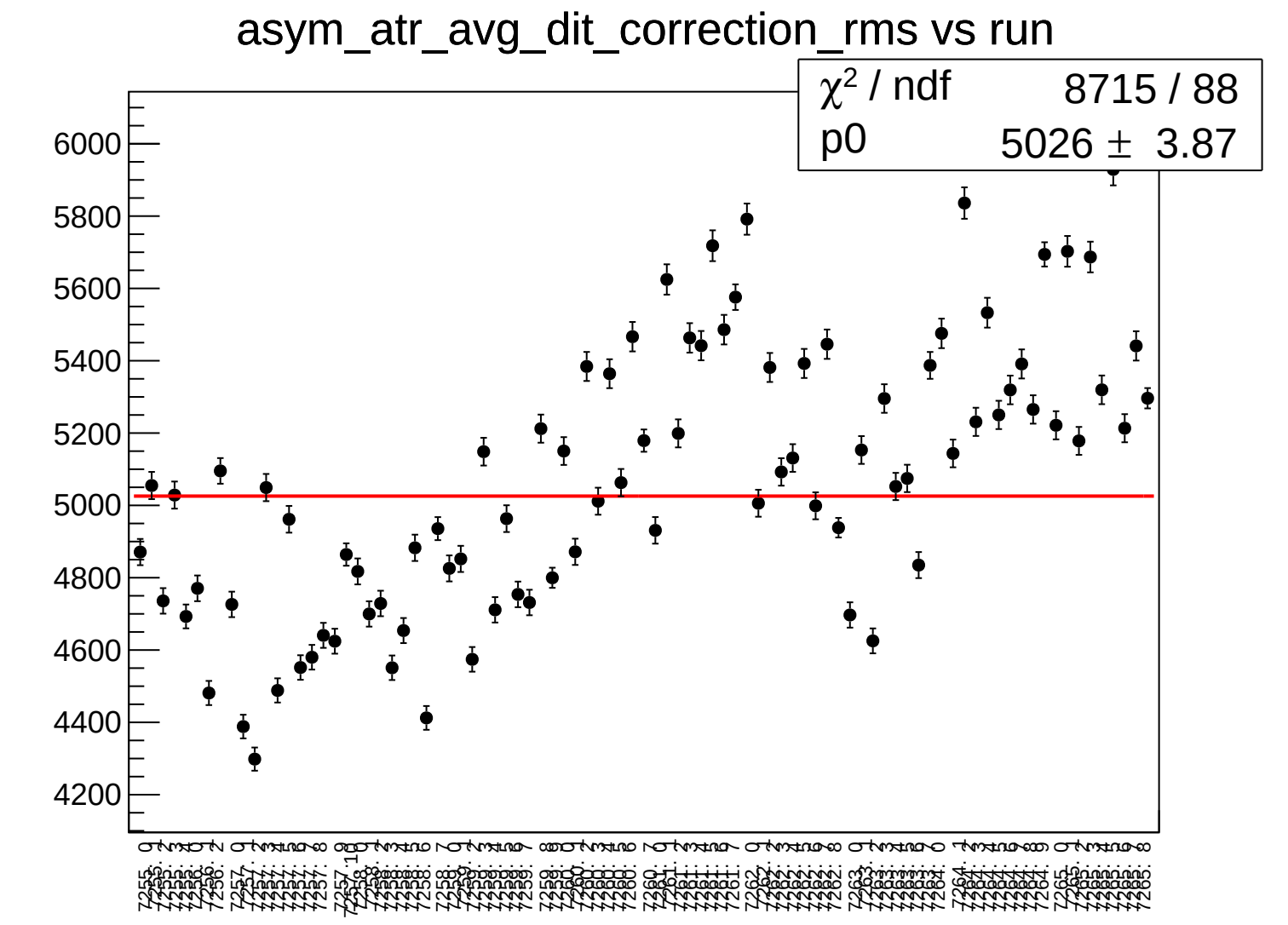

dit_asym_atr_avg_mean vs run
χ² / ndf 74.19 / 88
p0 −2221 ± 2020
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1878
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

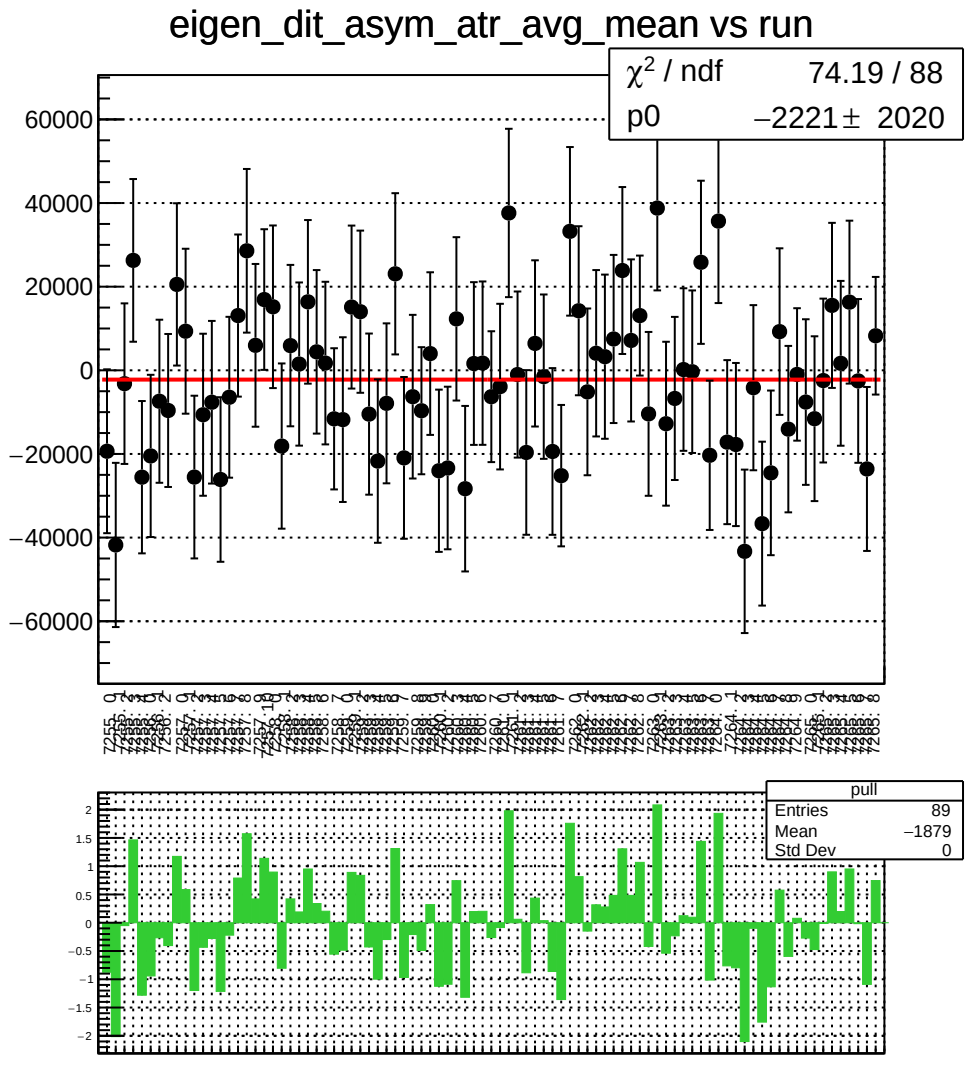

pull1D
Entries 89
Mean −0.0005125
Std Dev 0.913
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

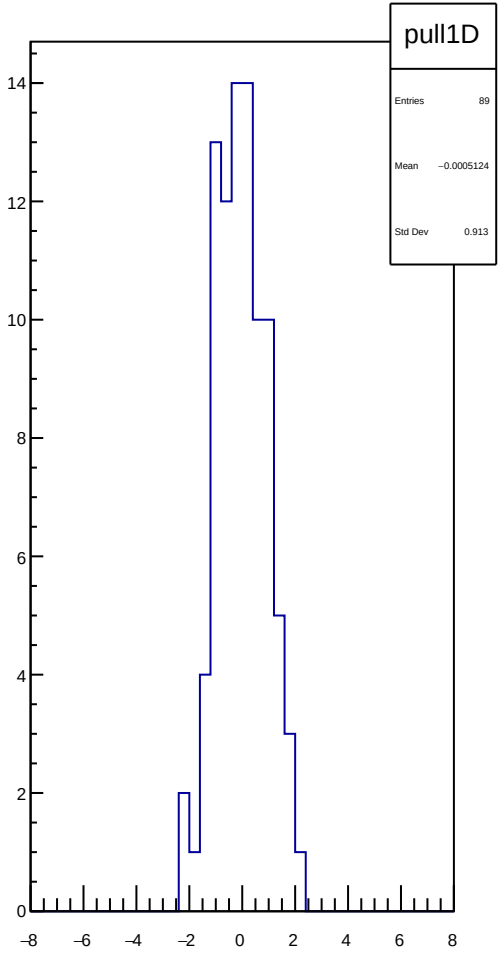

dit_asym_atr_avg_rms vs run
χ² / ndf 209 / 88
p0 1859 ± 1.428
1940
1920
1900
1880
1860
1840
1820
1800

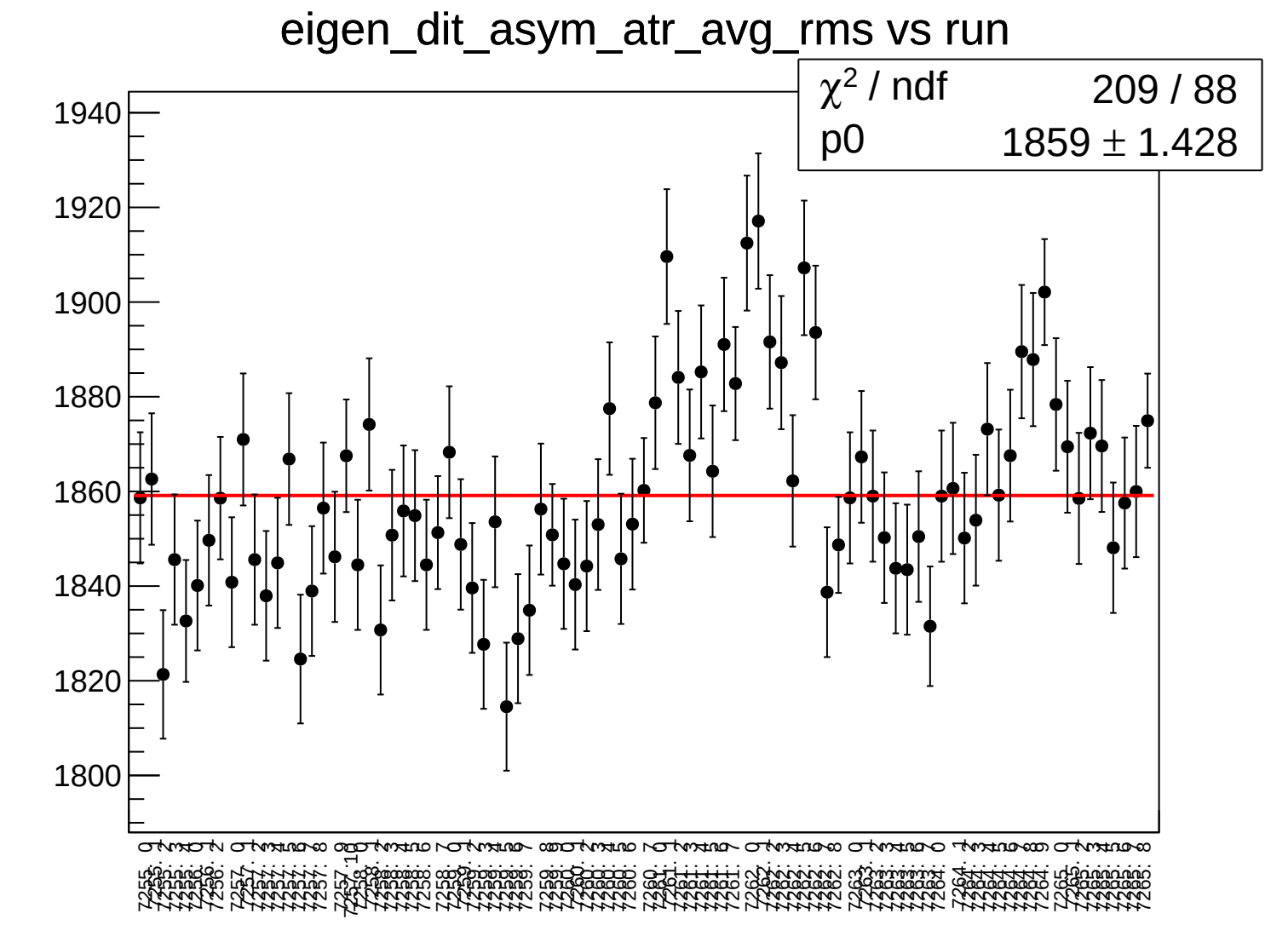

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.5 / 88
p0 3743 ± 5473
pull
Entries 89
Mean 1302
Std Dev 0

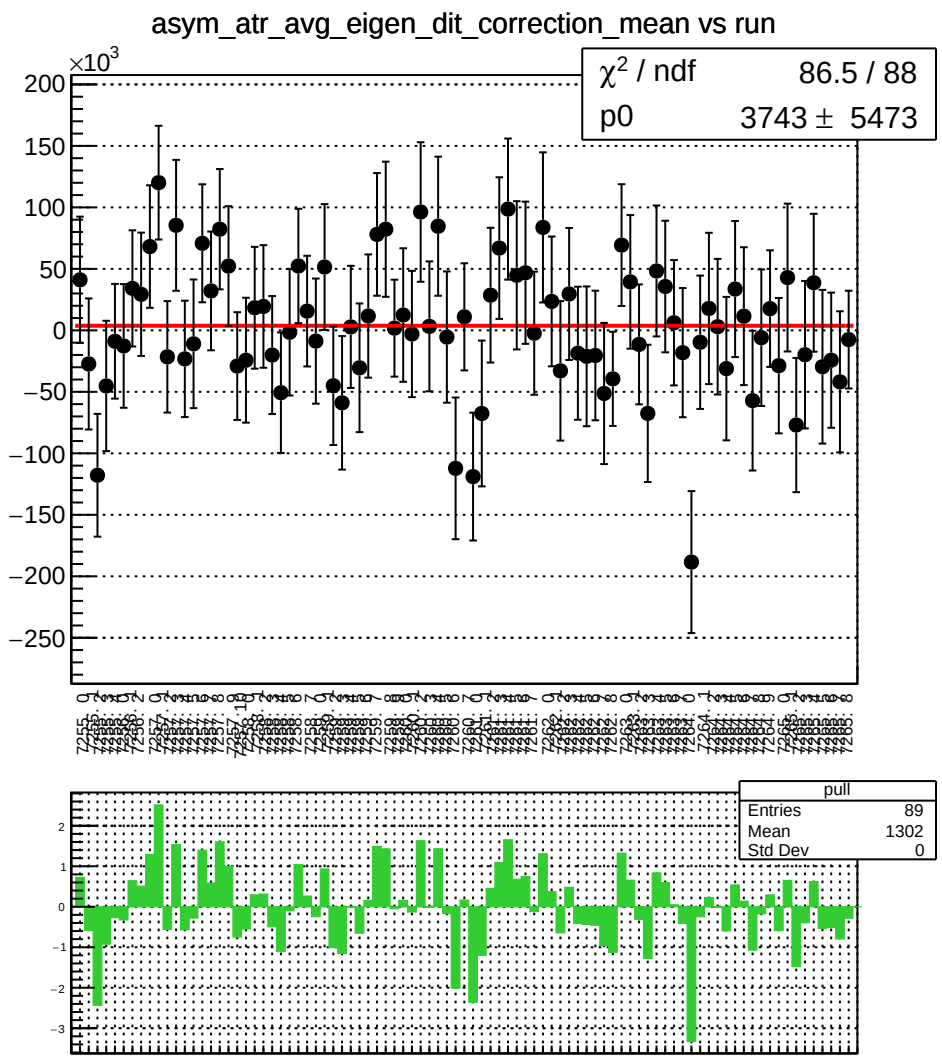

pull1D
Entries 89
Mean −0.003398
Std Dev 0.9859

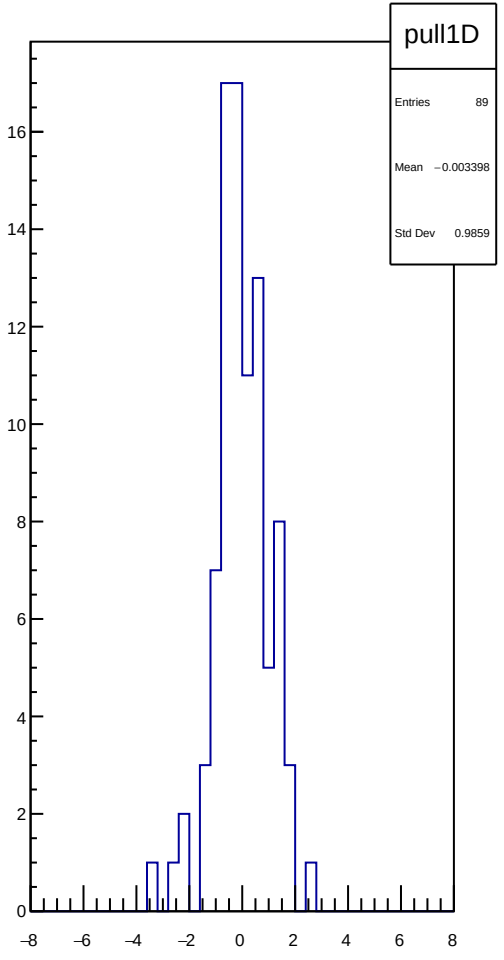

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 8715 / 88
p0 5026 ± 3.87
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

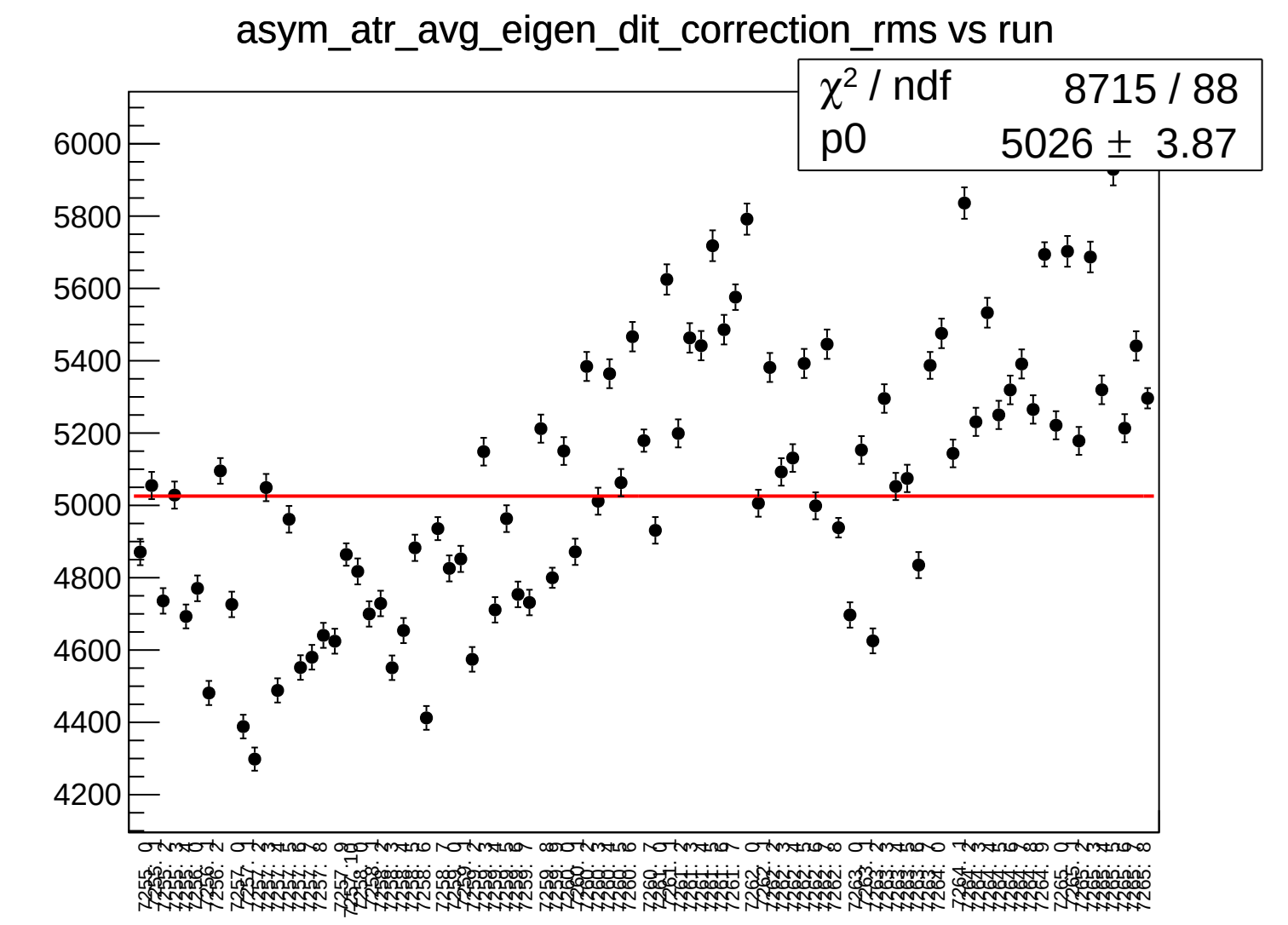

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 74.19 / 88
p0 −2221 ± 2020
pull
Entries 89
Mean −1879
Std Dev 0

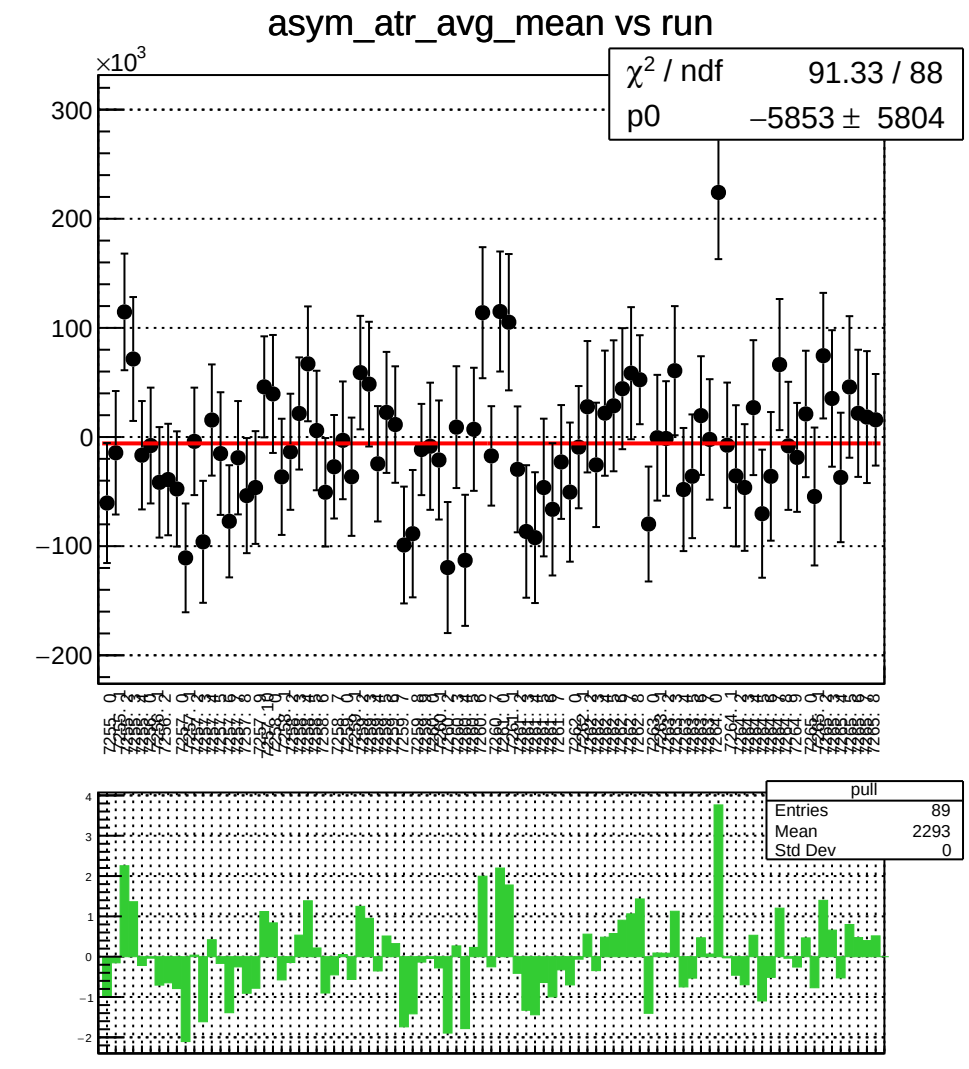

pull1D
Entries 89
Mean −0.0005124
Std Dev 0.913

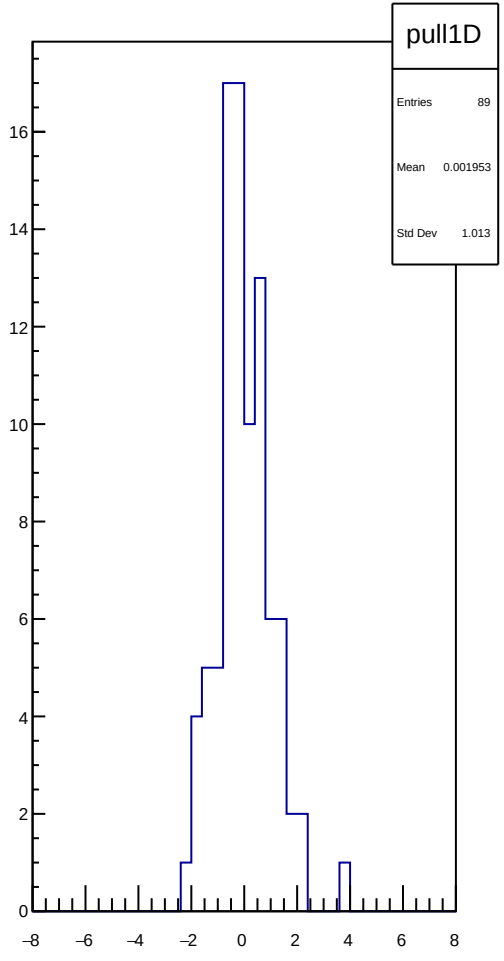

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 209 / 88
p0 1859 ± 1.428
1940
1920
1900
1880
1860
1840
1820
1800

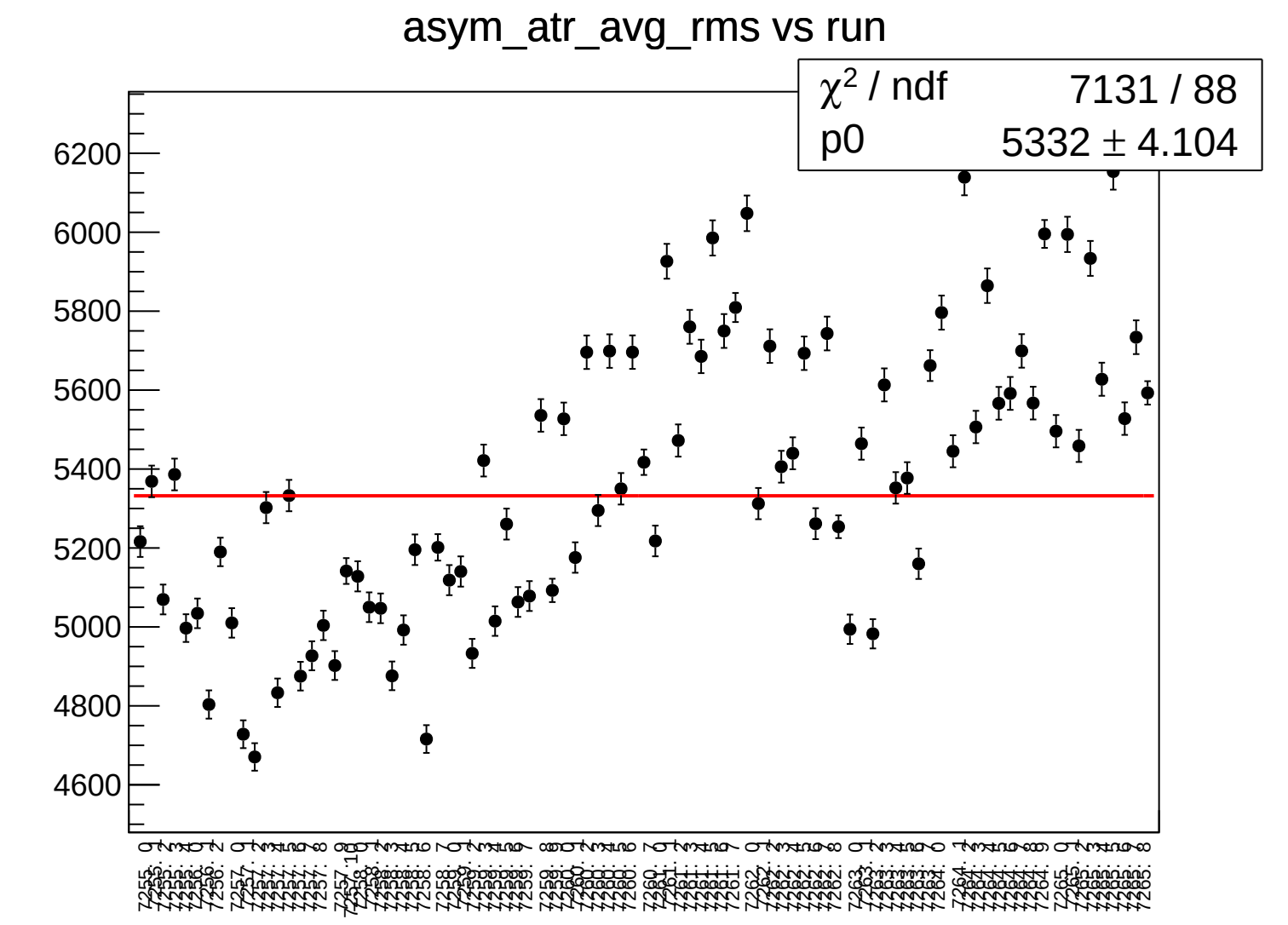

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.5 / 88
p0 3743 ± 5473
pull
Entries 89
Mean 1302
Std Dev 0

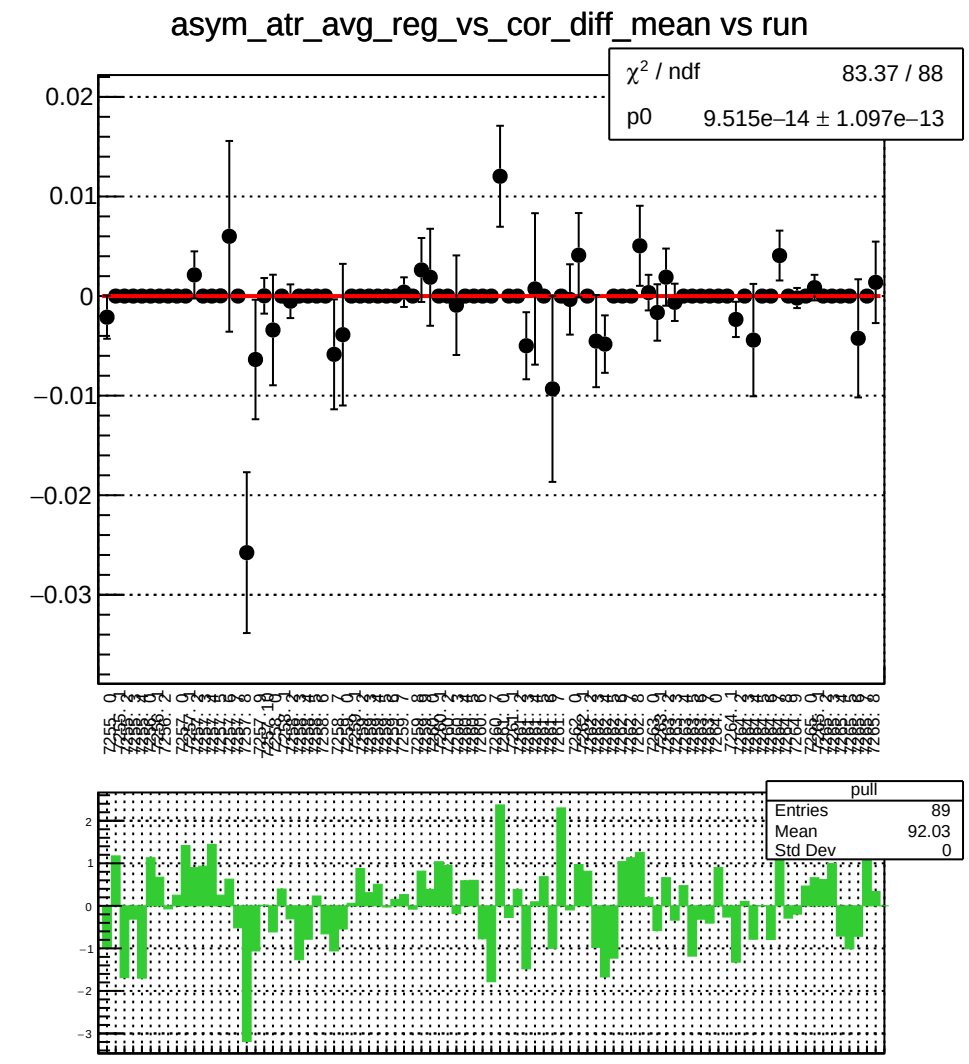

pull1D
Entries 89
Mean −0.003398
Std Dev 0.9859

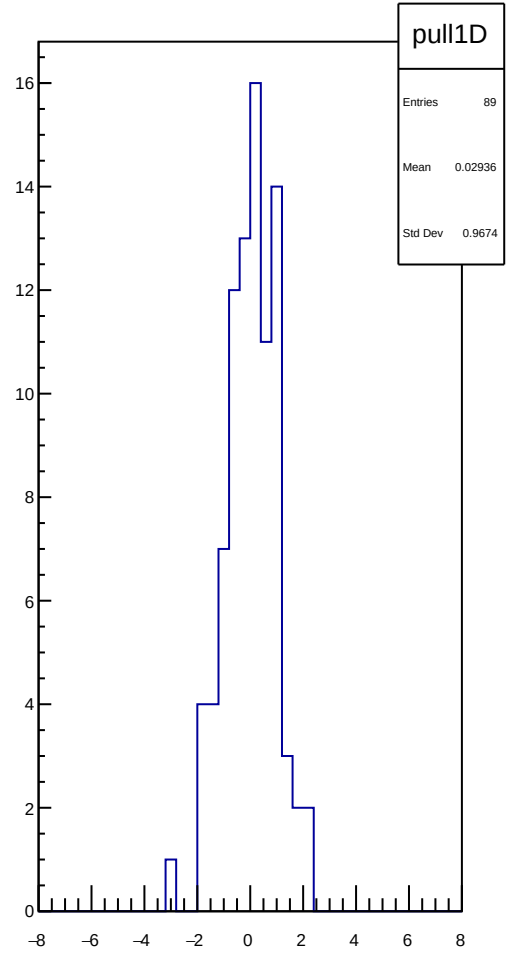

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 8715 / 88
p0 5026 ± 3.87
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

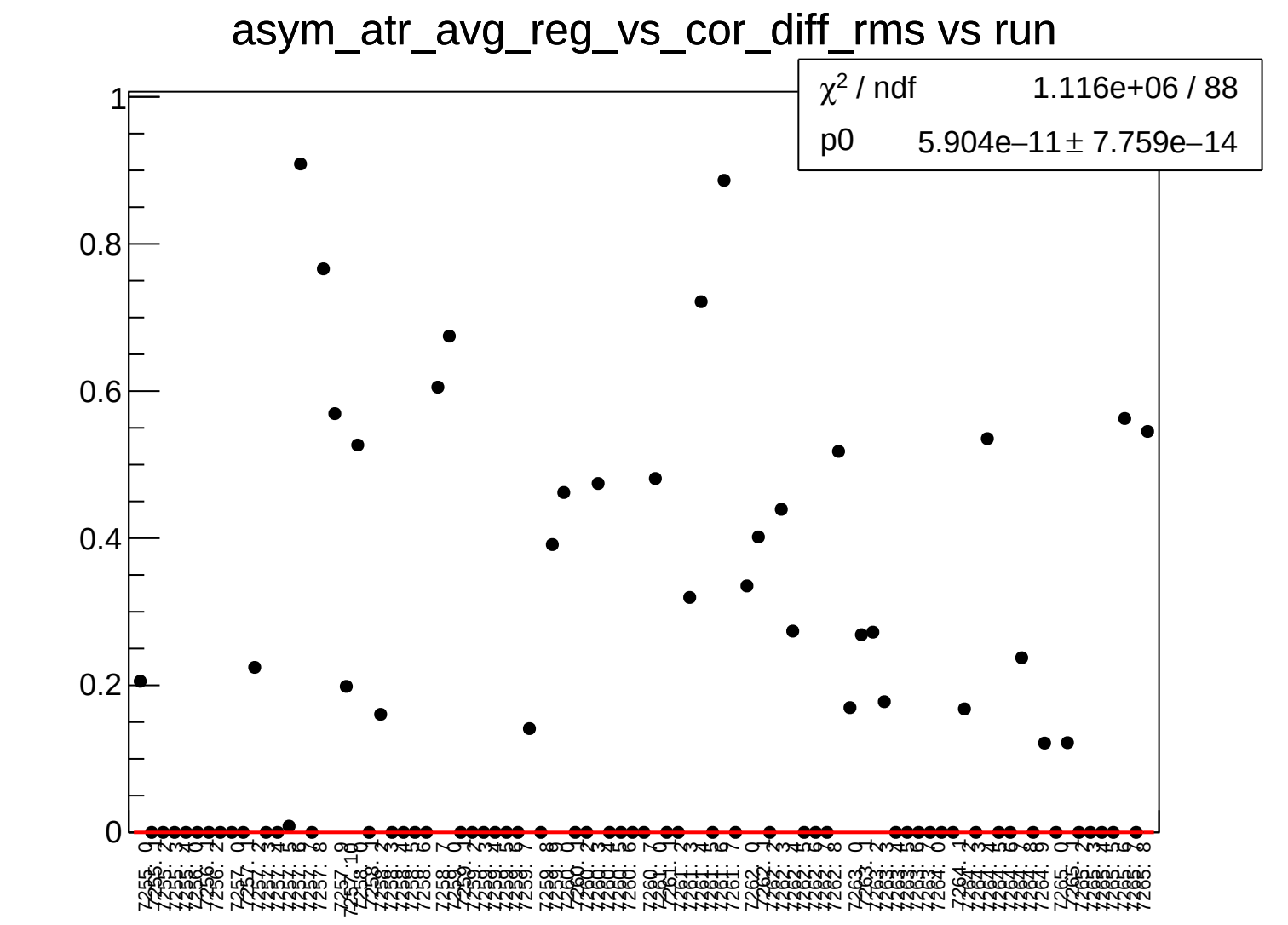

asym_atr_avg_mean vs run
×10^3
χ² / ndf 91.33 / 88
p0 −5853 ± 5804
300
200
100
0
−100
−200
pull
Entries 89
Mean 2293
Std Dev 0
4
3
2
1
0
−1
−2

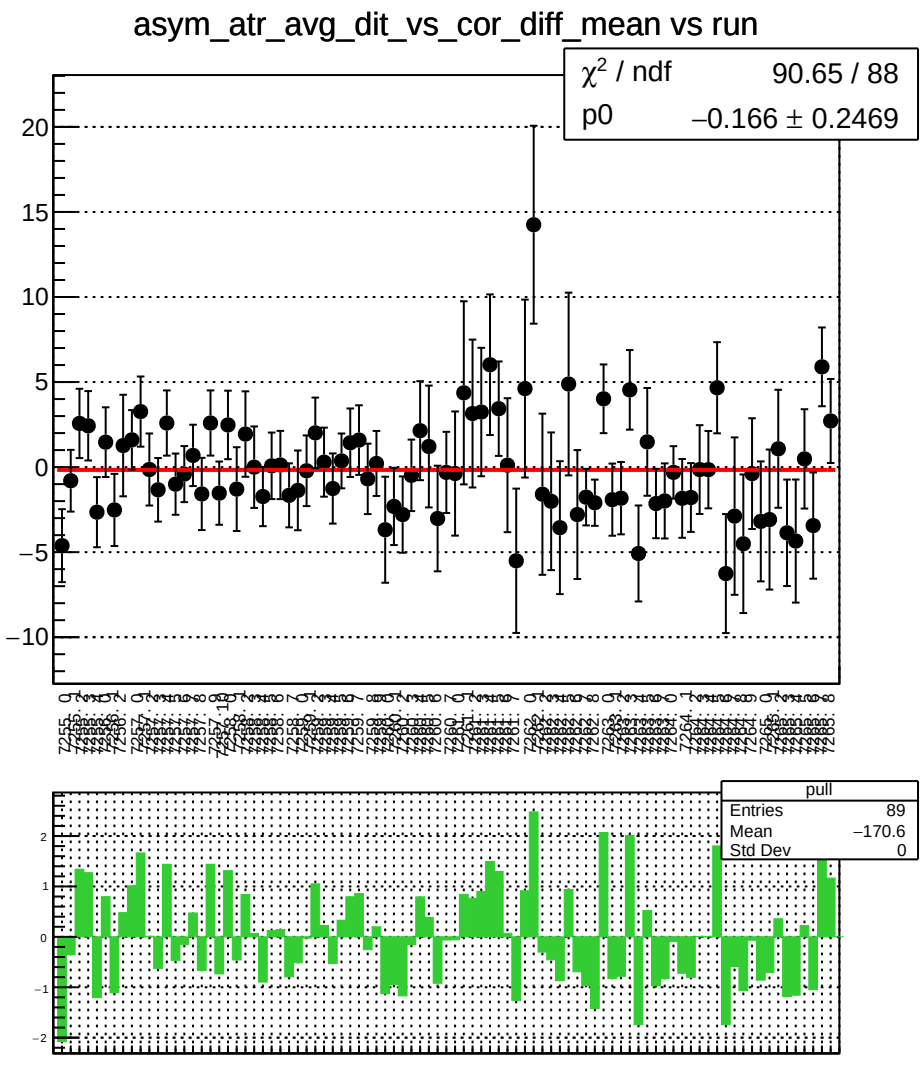

pull1D
Entries 89
Mean 0.001953
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

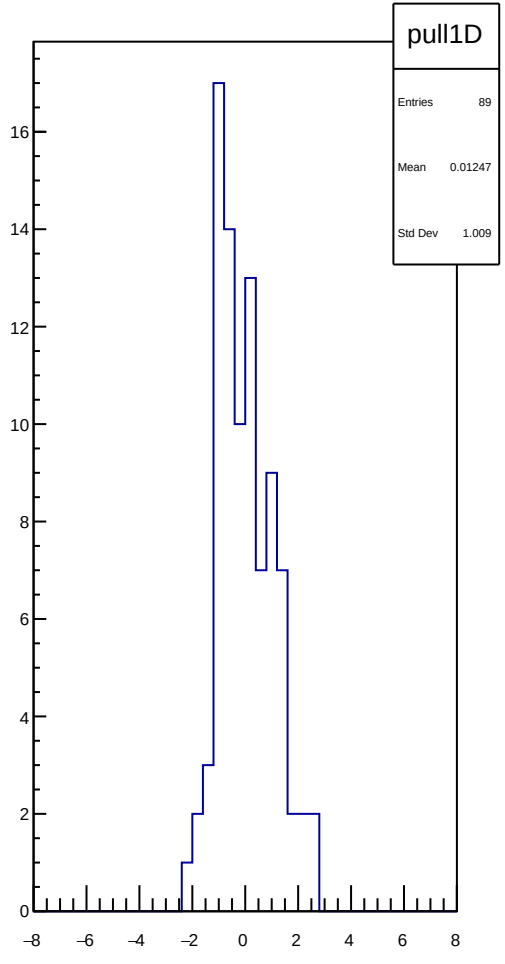

asym_atr_avg_rms vs run
χ² / ndf 7131 / 88
p0 5332 ± 4.104
6200
6000
5800
5600
5400
5200
5000
4800
4600

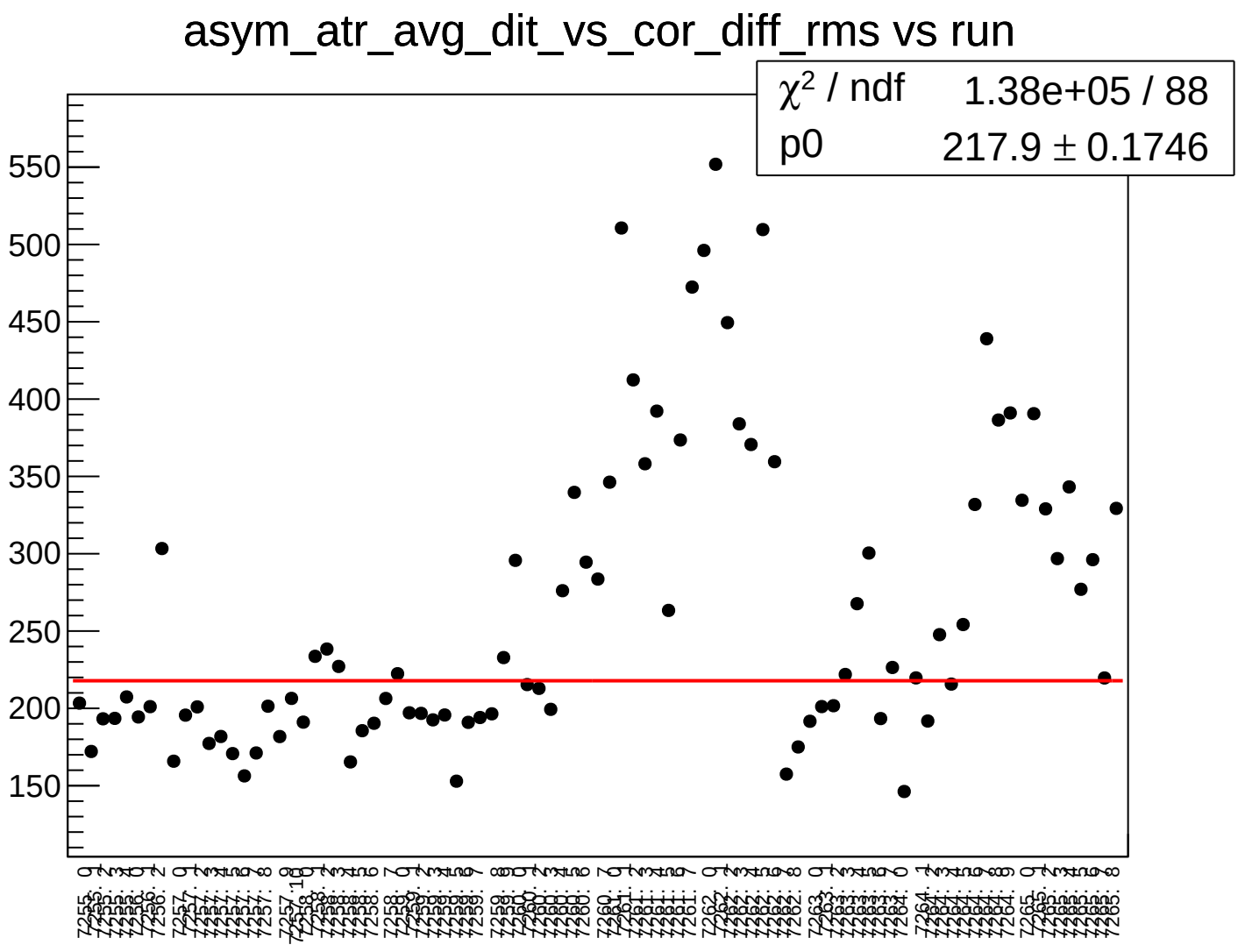

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.37 / 88
p0 9.515e−14 ± 1.097e−13
pull
Entries 89
Mean 92.03
Std Dev 0

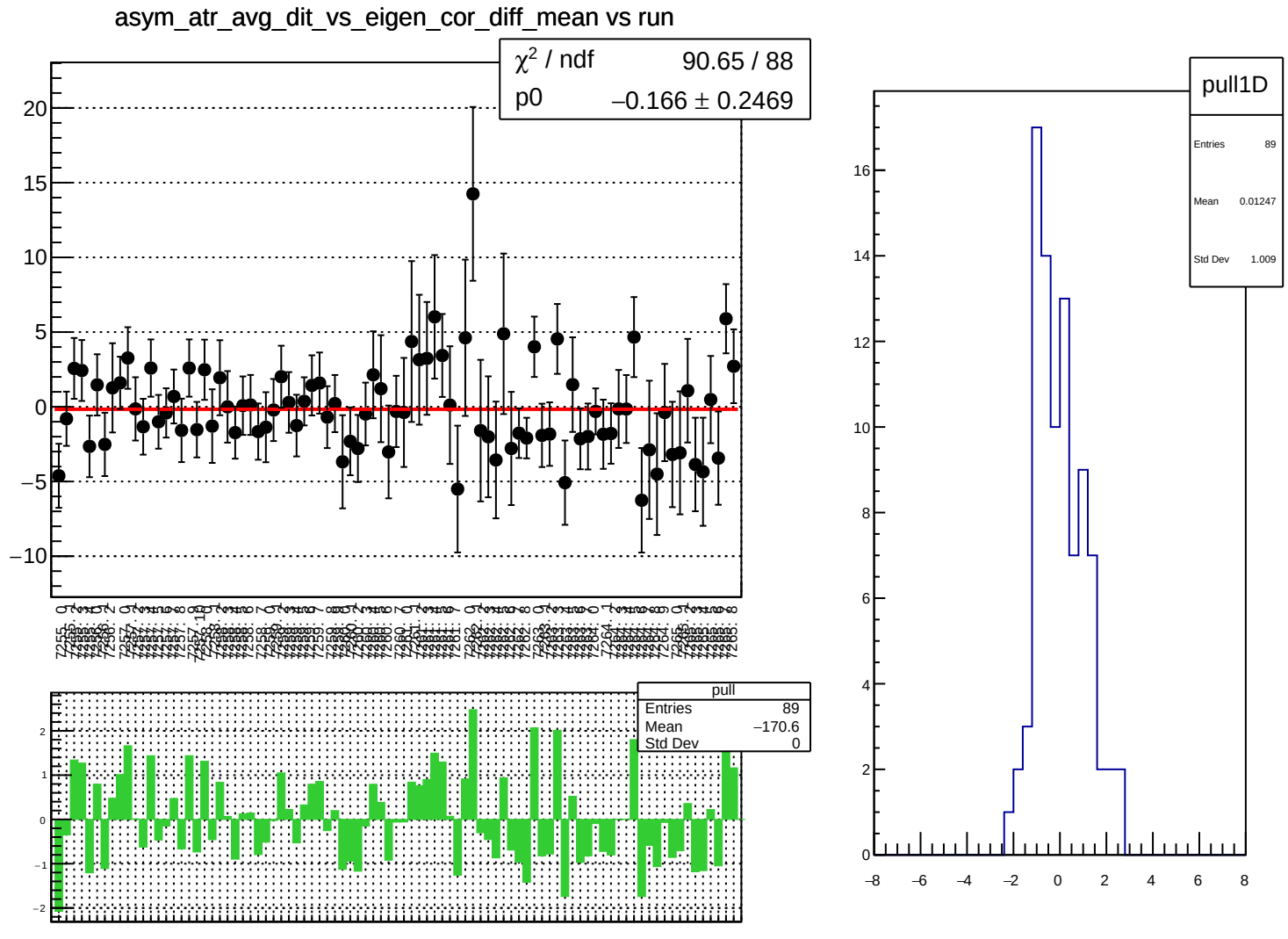

pull1D
Entries 89
Mean 0.02936
Std Dev 0.9674

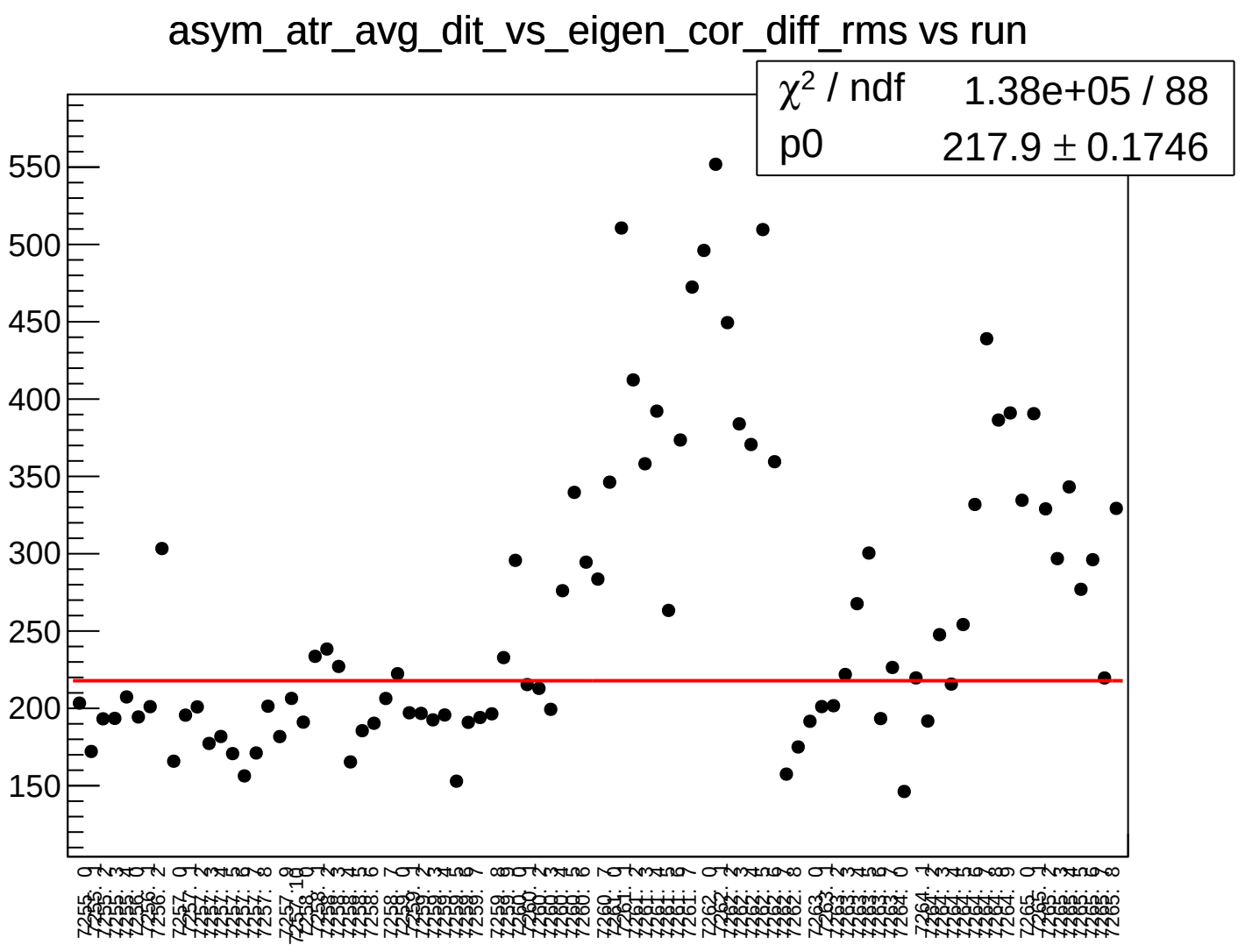

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.116e+06 / 88
p0 5.904e−11 ± 7.759e−14
1
0.8
0.6
0.4
0.2
0

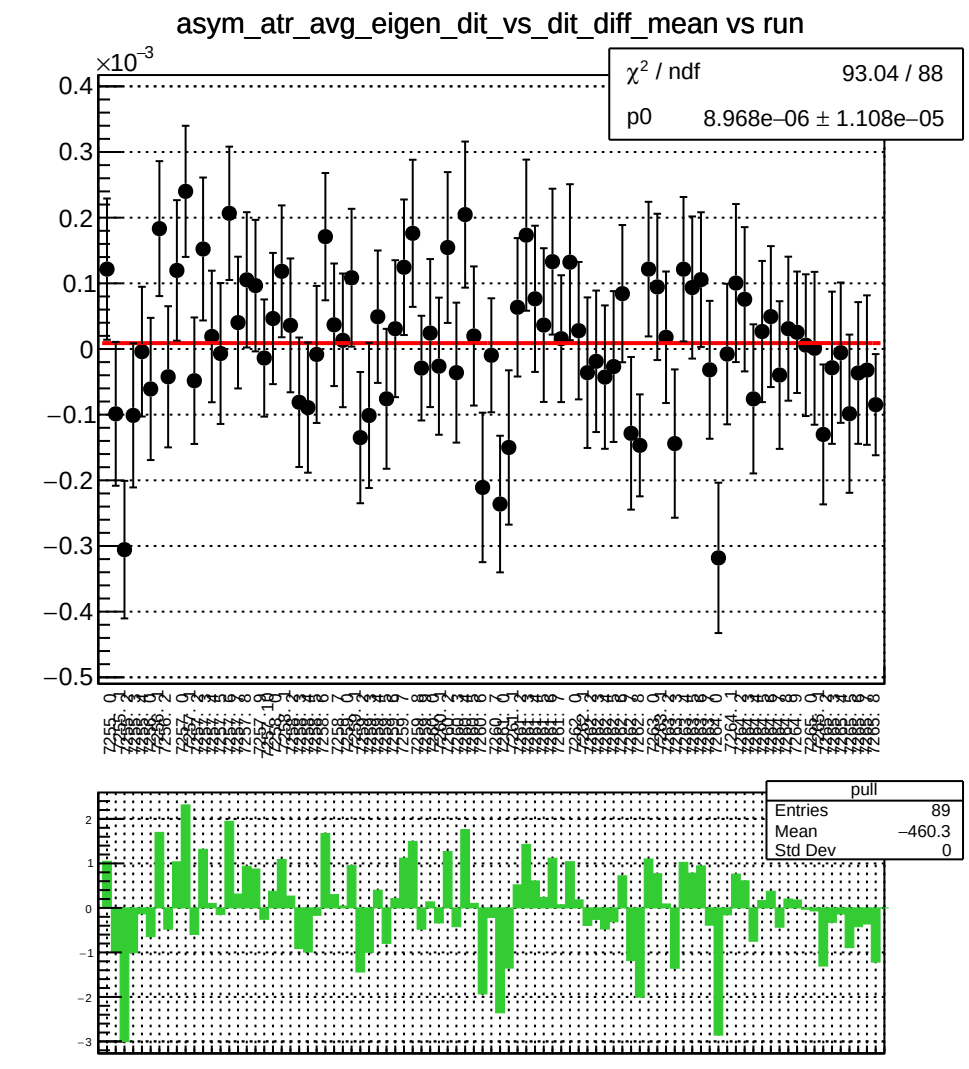

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.65 / 88
p0 −0.166 ± 0.2469
pull
Entries 89
Mean −170.6
Std Dev 0

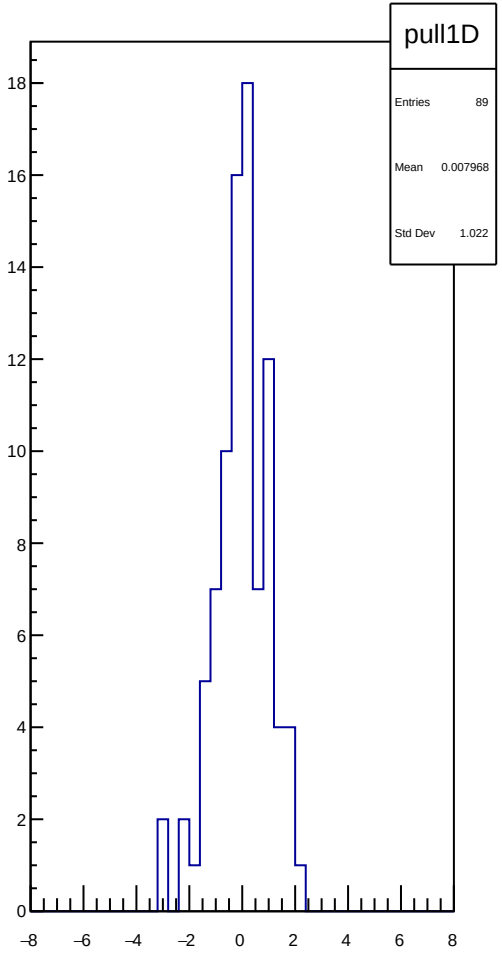

pull1D
Entries 89
Mean 0.01247
Std Dev 1.009

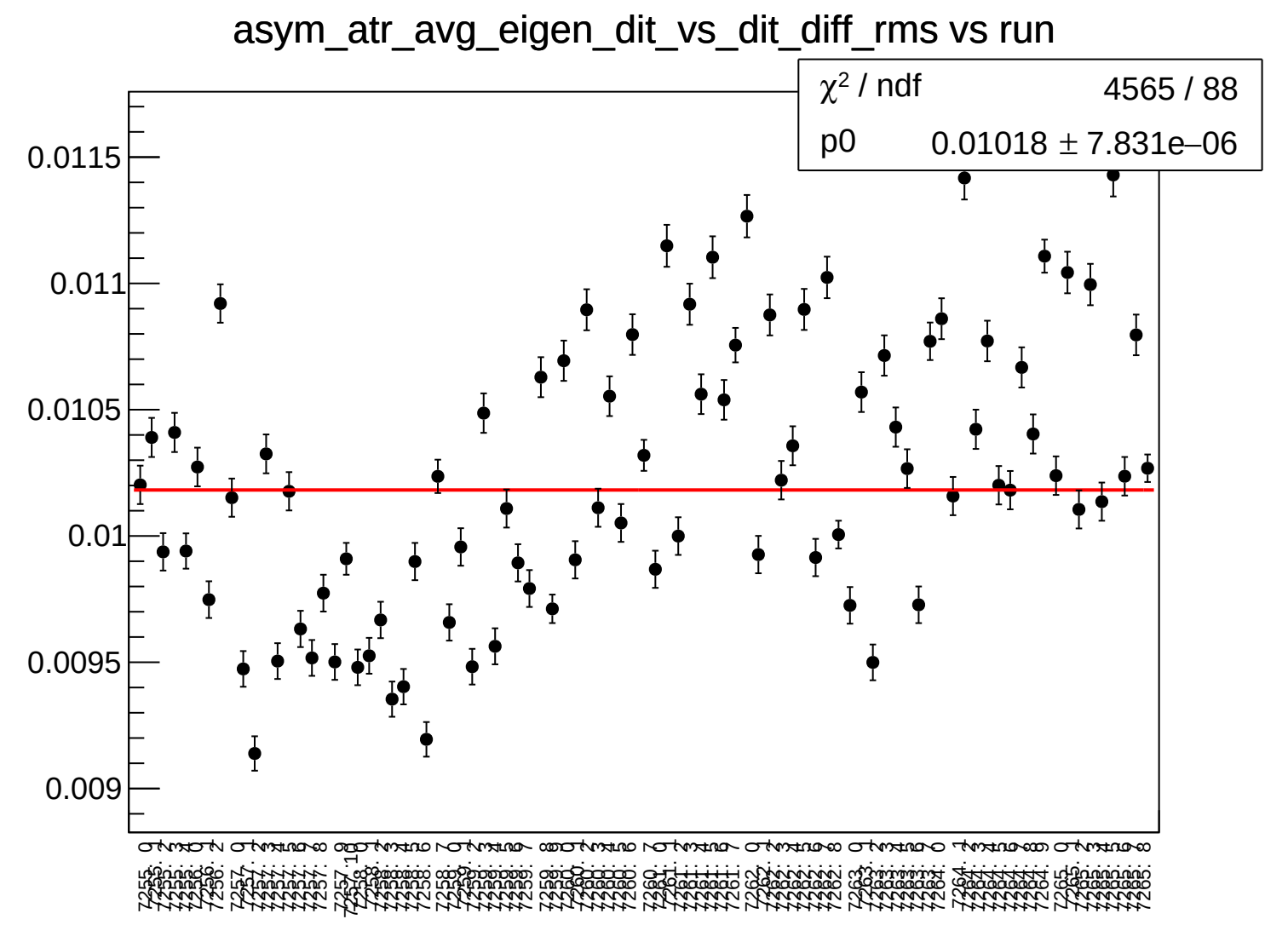

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.38e+05 / 88
p0 217.9 ± 0.1746
550
500
450
400
350
300
250
200
150

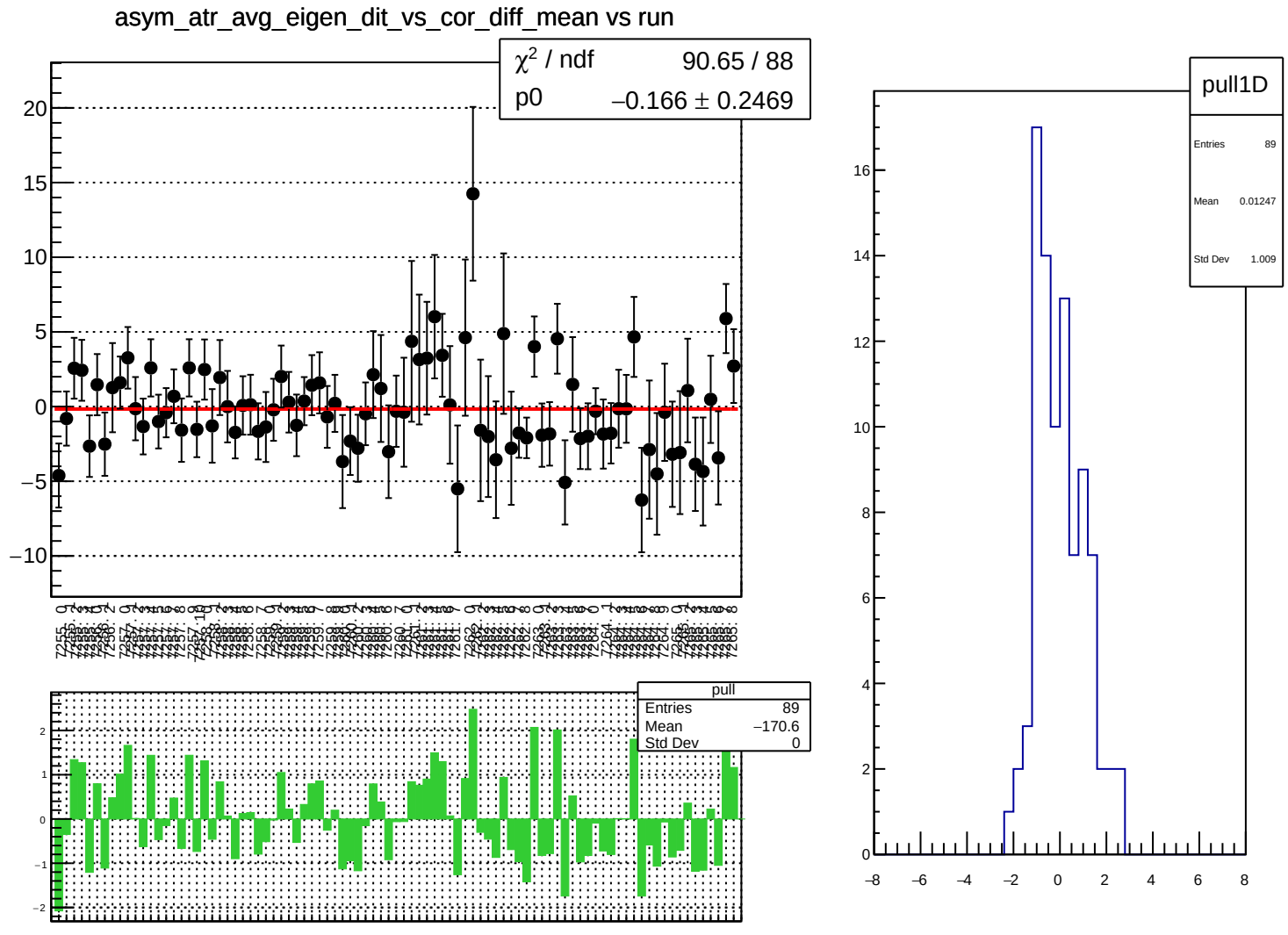

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.65 / 88
p0 −0.166 ± 0.2469
pull
Entries 89
Mean −170.6
Std Dev 0
pull1D
Entries 89
Mean 0.01247
Std Dev 1.009

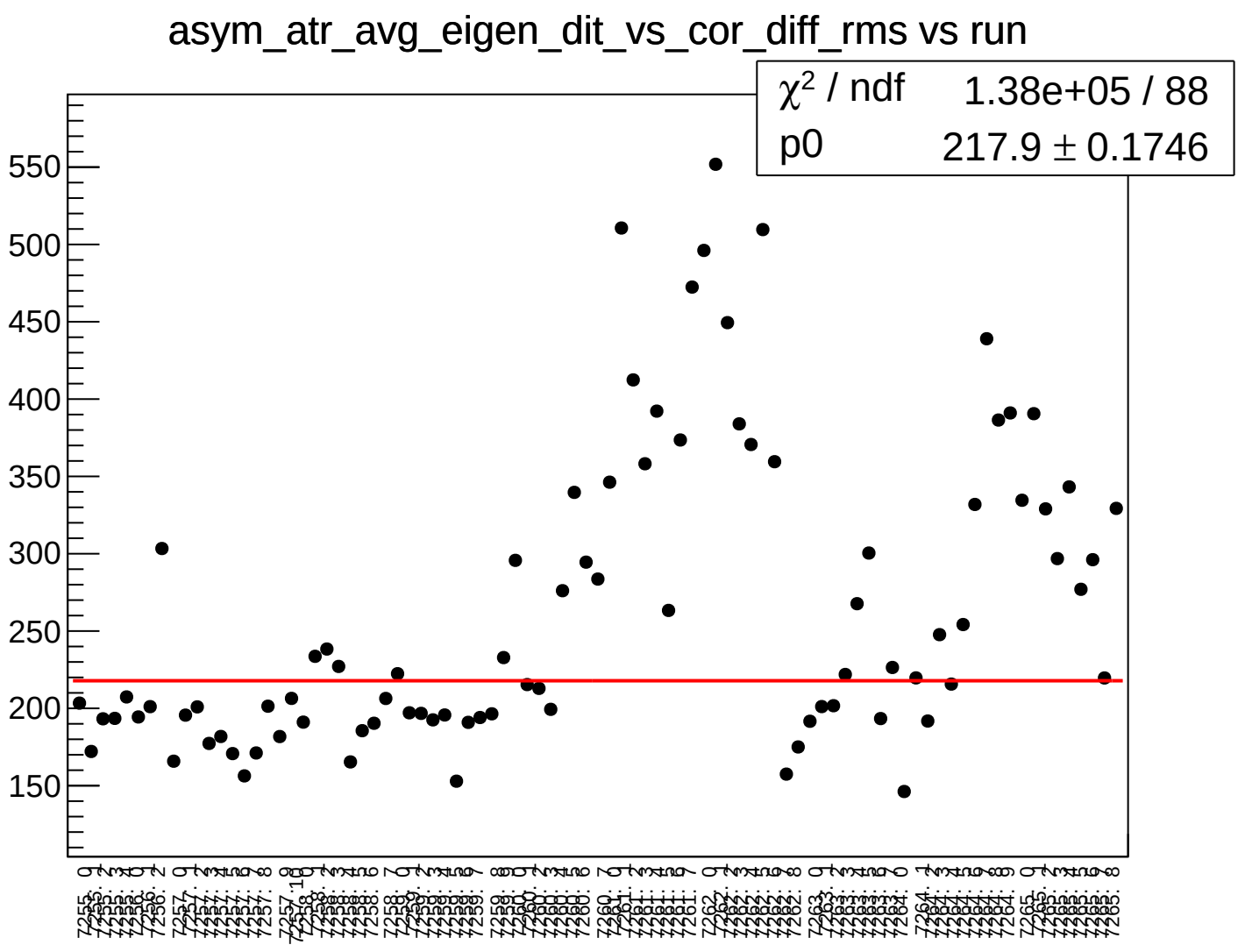

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.38e+05 / 88
p0 217.9 ± 0.1746
550
500
450
400
350
300
250
200
150

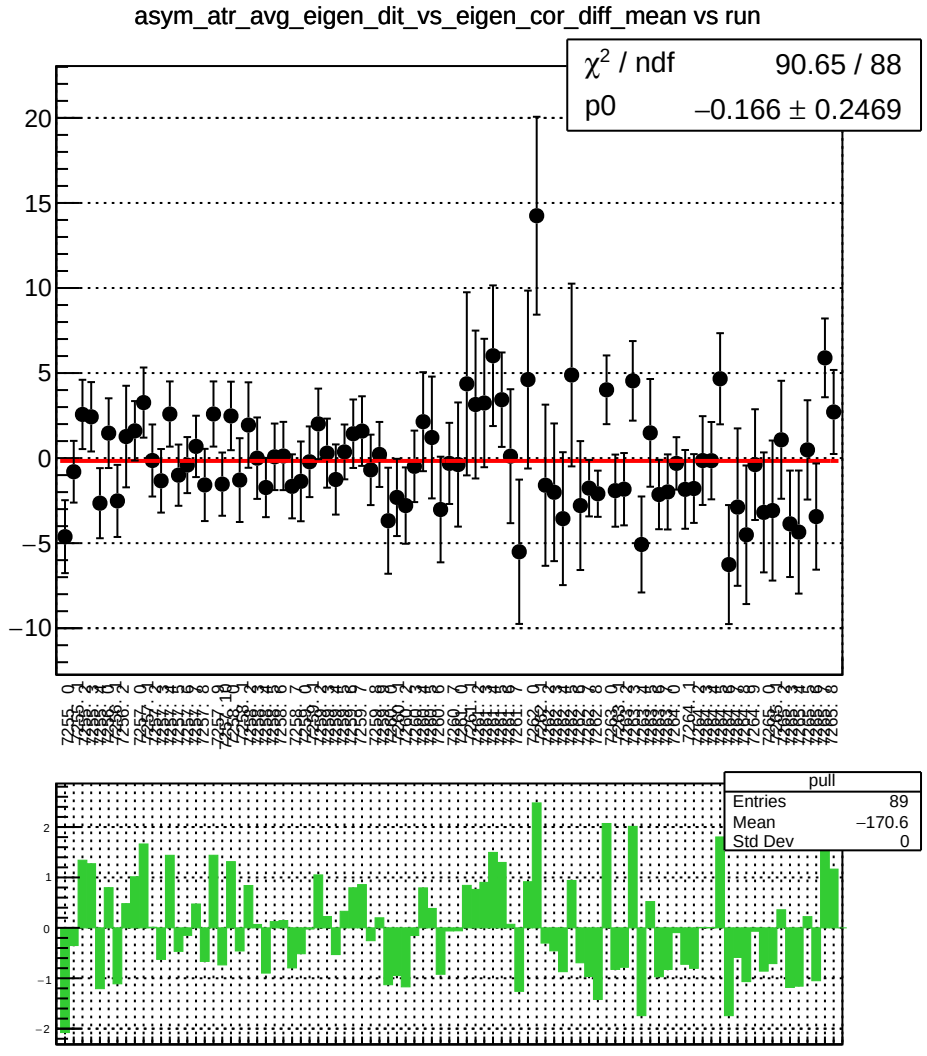

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.04 / 88
p0 8.968e−06 ± 1.108e−05
pull
Entries 89
Mean −460.3
Std Dev 0

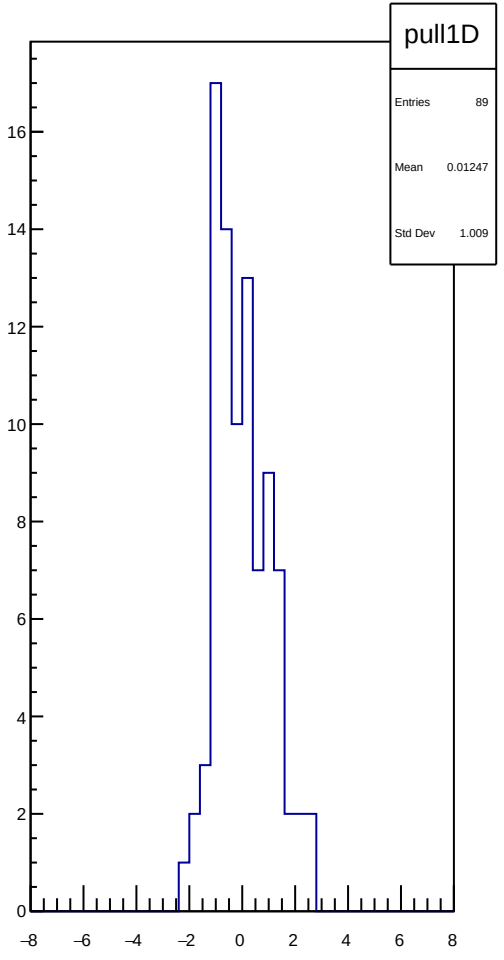

pull1D
Entries 89
Mean 0.007968
Std Dev 1.022

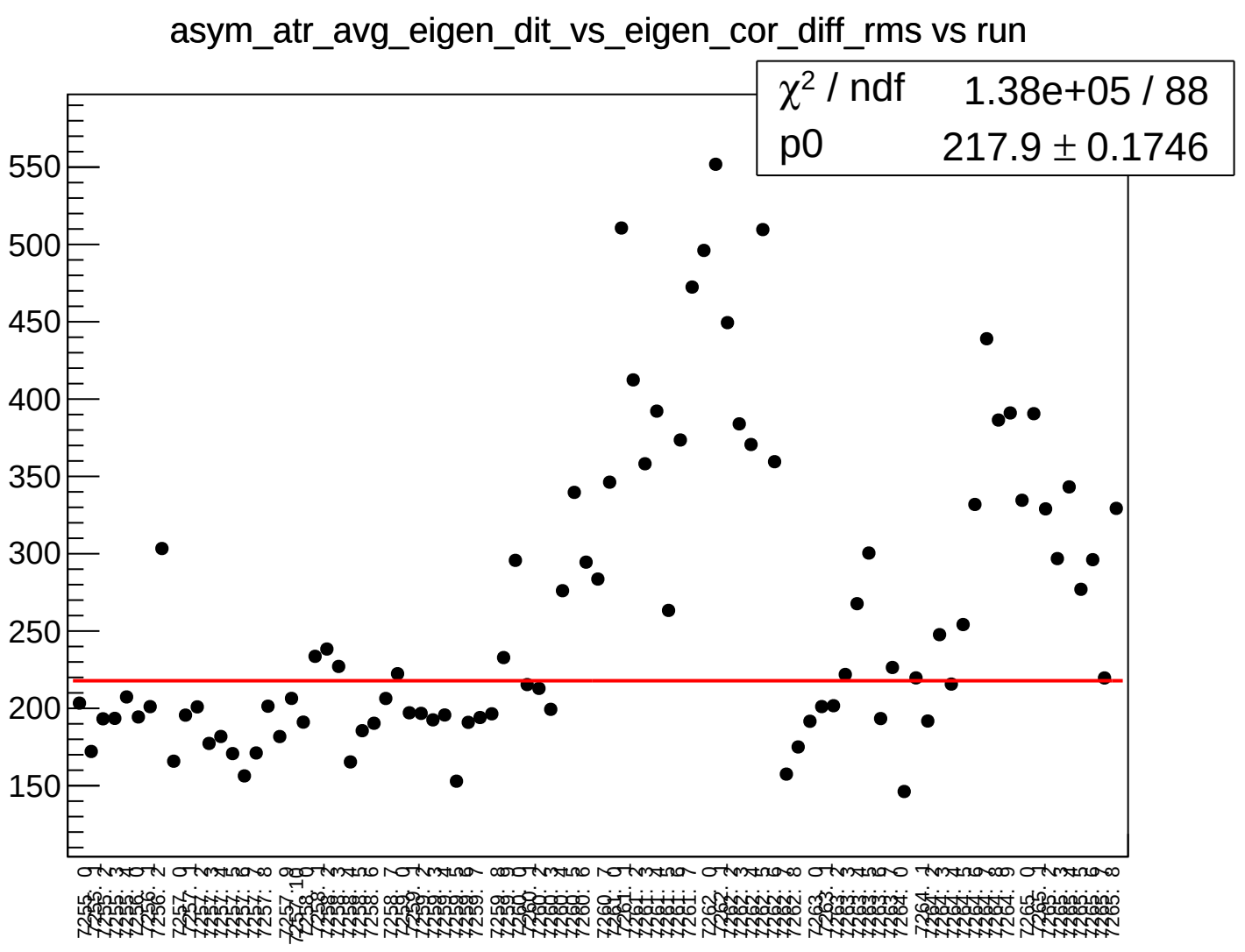

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4565 / 88
p0 0.01018 ± 7.831e–06
0.0115
0.011
0.0105
0.01
0.0095
0.009

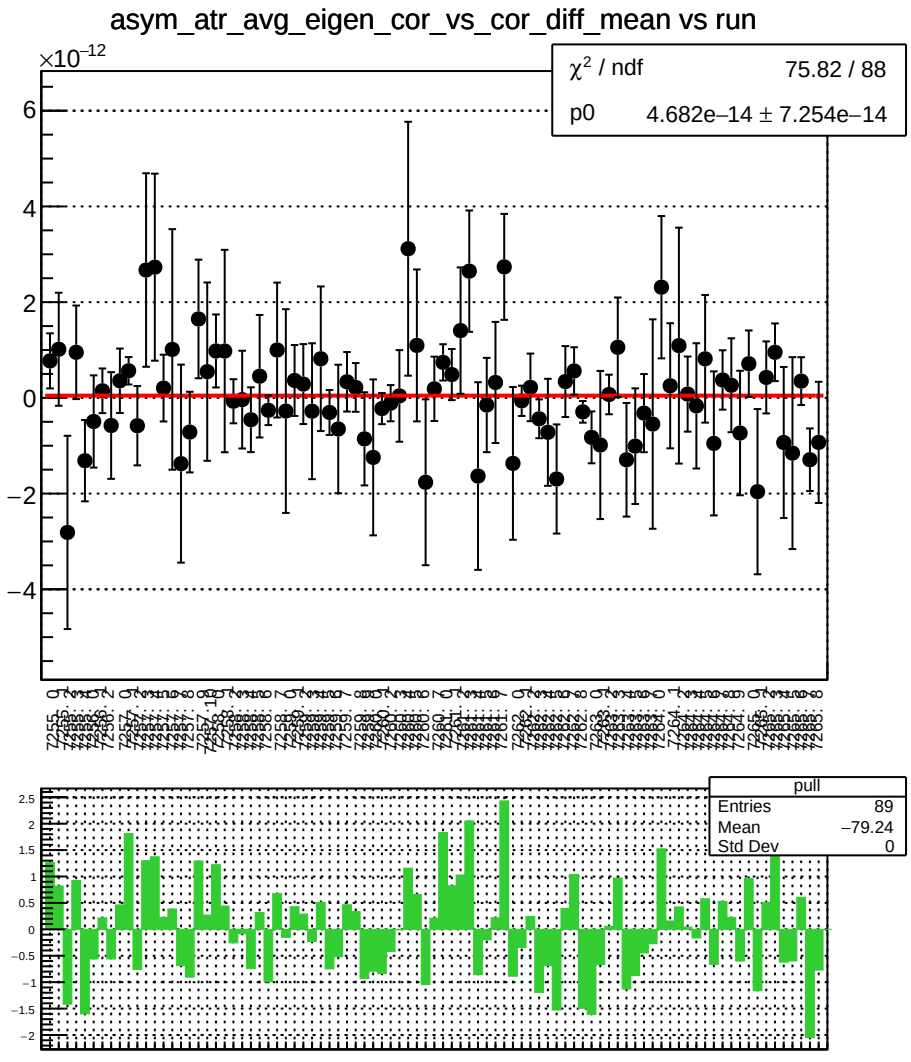

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.65 / 88
p0 −0.166 ± 0.2469
pull
Entries 89
Mean −170.6
Std Dev 0
pull1D
Entries 89
Mean 0.01247
Std Dev 1.009

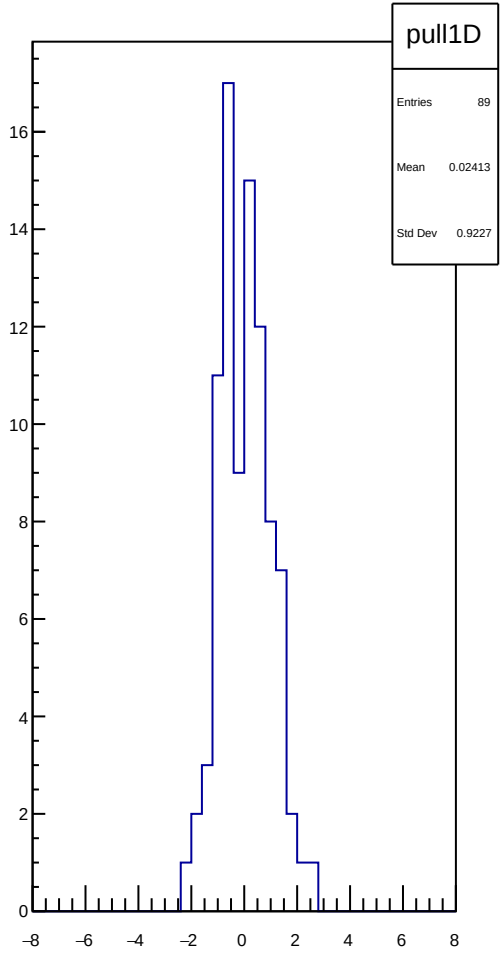

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.38e+05 / 88
p0 217.9 ± 0.1746
550
500
450
400
350
300
250
200
150

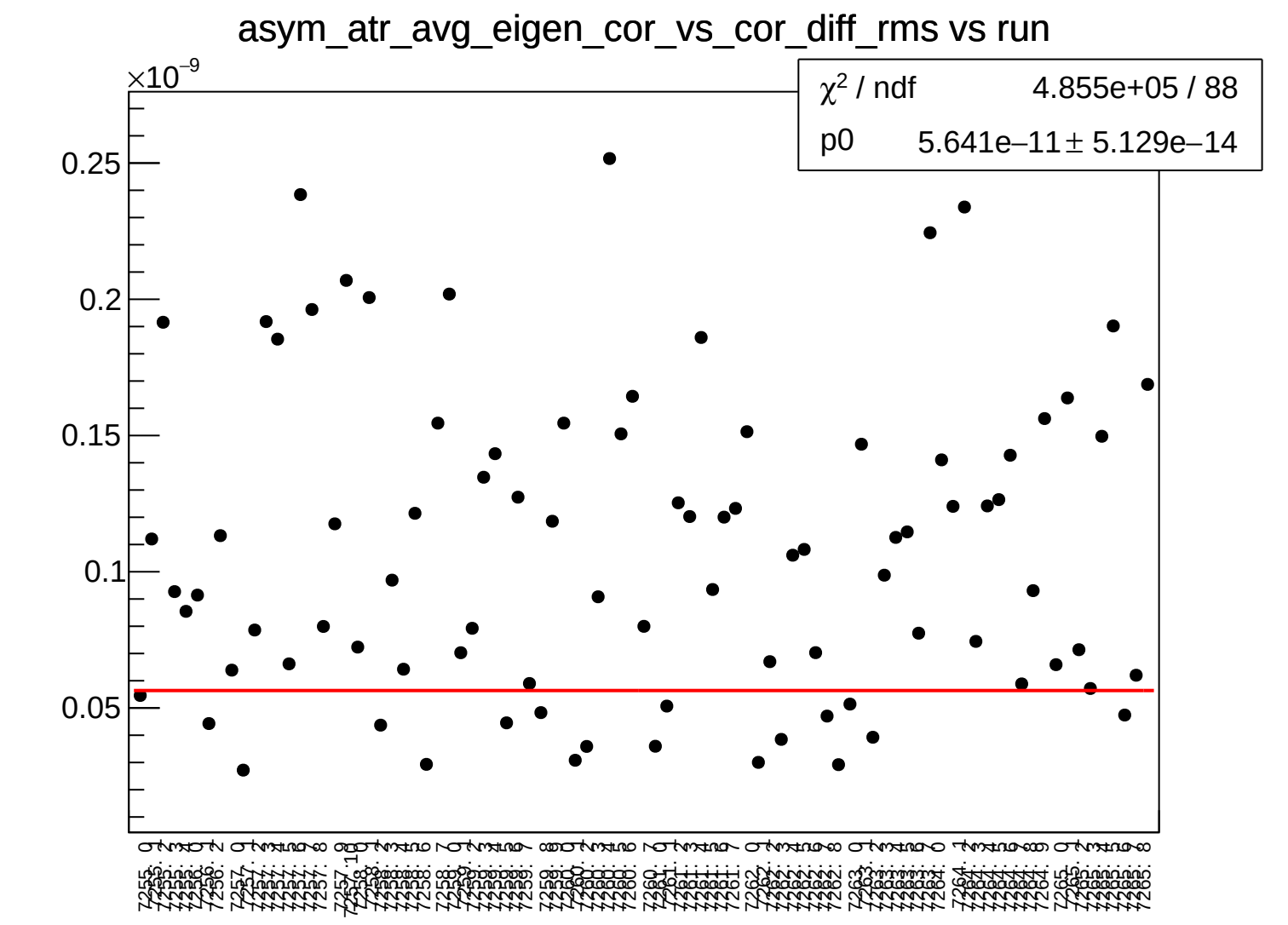

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.65 / 88
p0 −0.166 ± 0.2469
pull
Entries 89
Mean −170.6
Std Dev 0

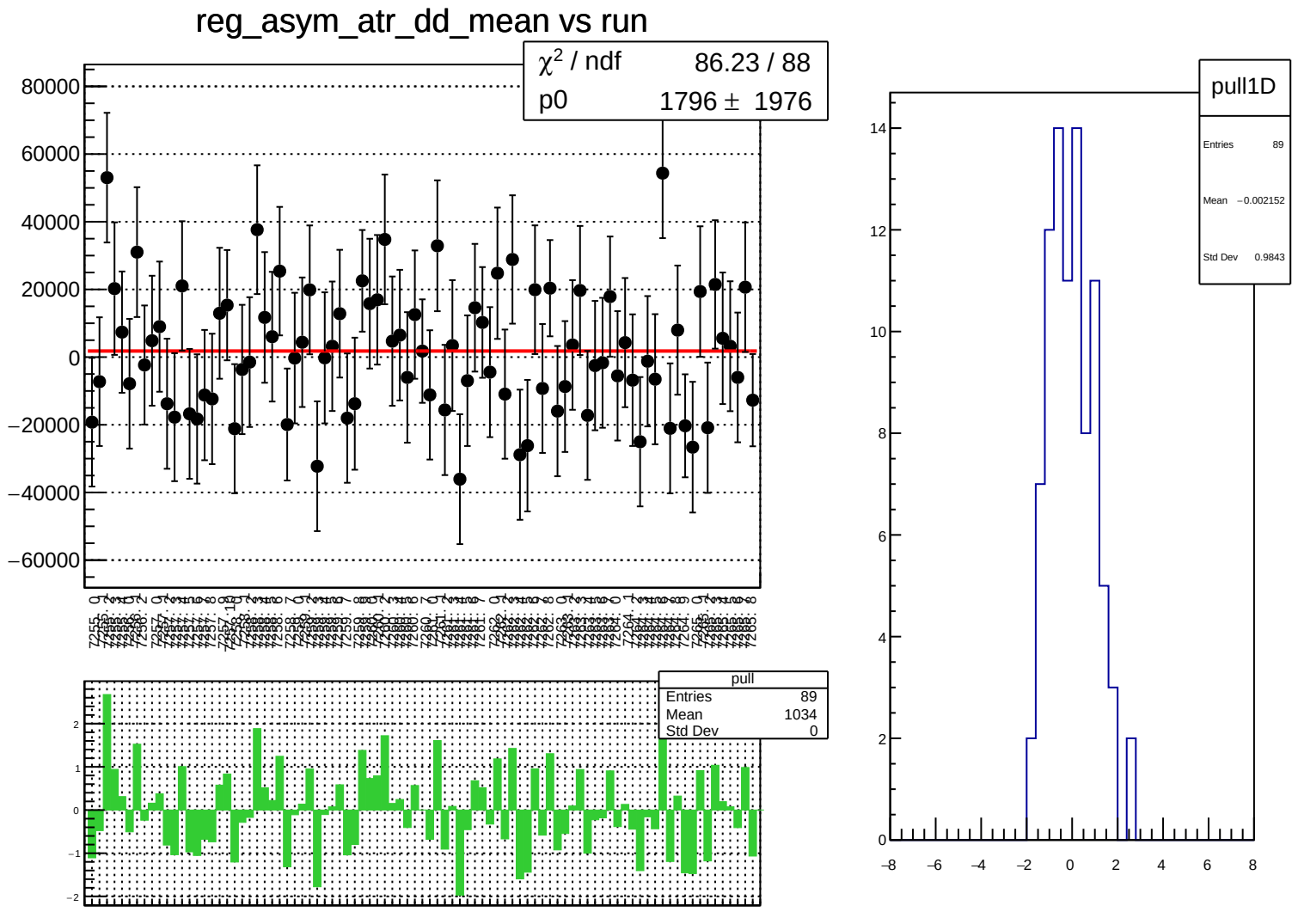

pull1D
Entries 89
Mean 0.01247
Std Dev 1.009

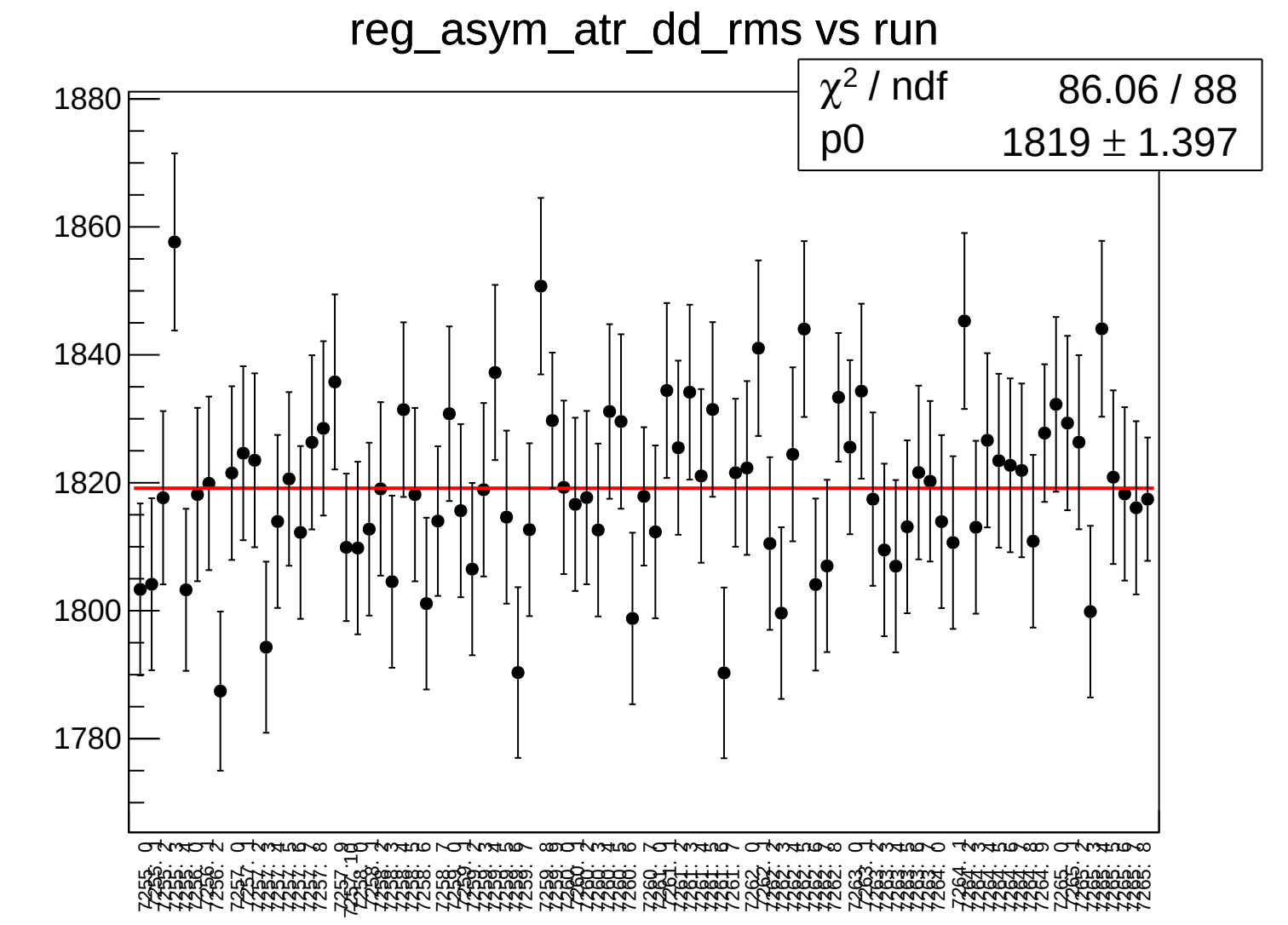

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.38e+05 / 88
p0 217.9 ± 0.1746
550
500
450
400
350
300
250
200
150

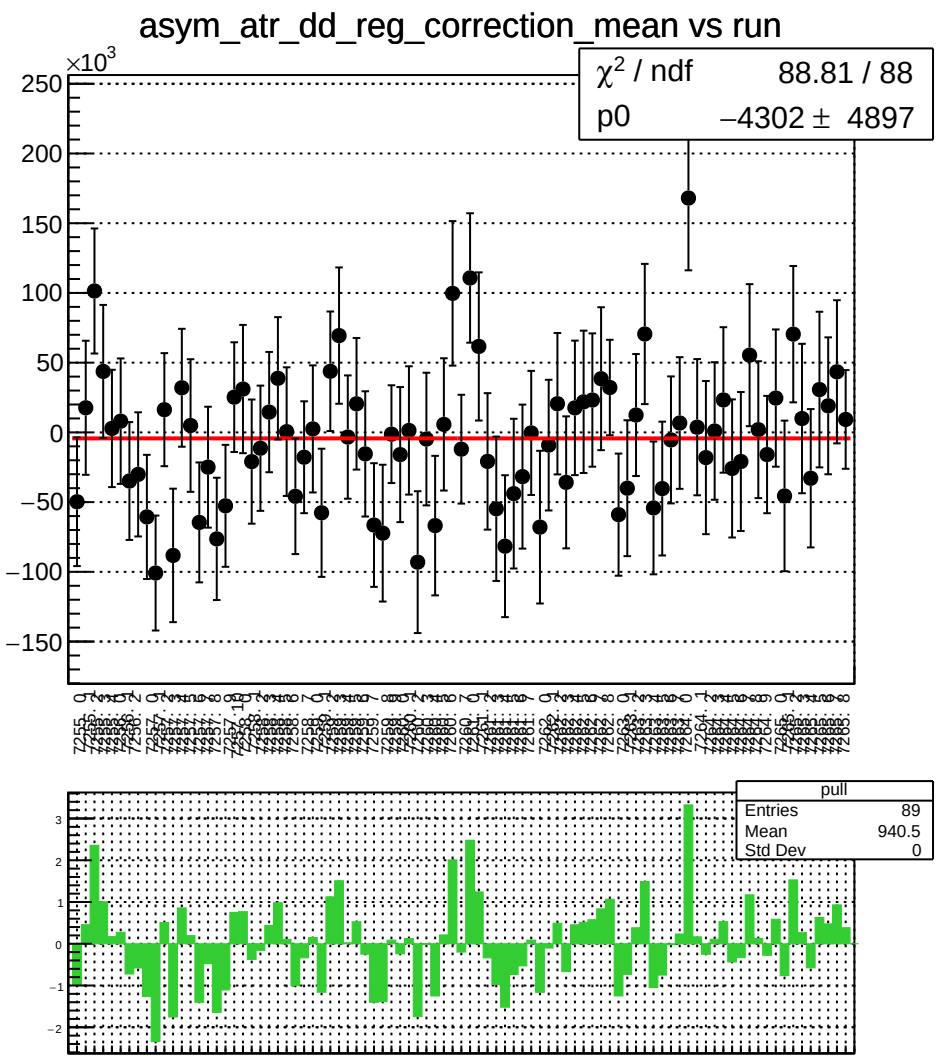

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.82 / 88
p0 4.682e−14 ± 7.254e−14
pull
Entries 89
Mean −79.24
Std Dev 0

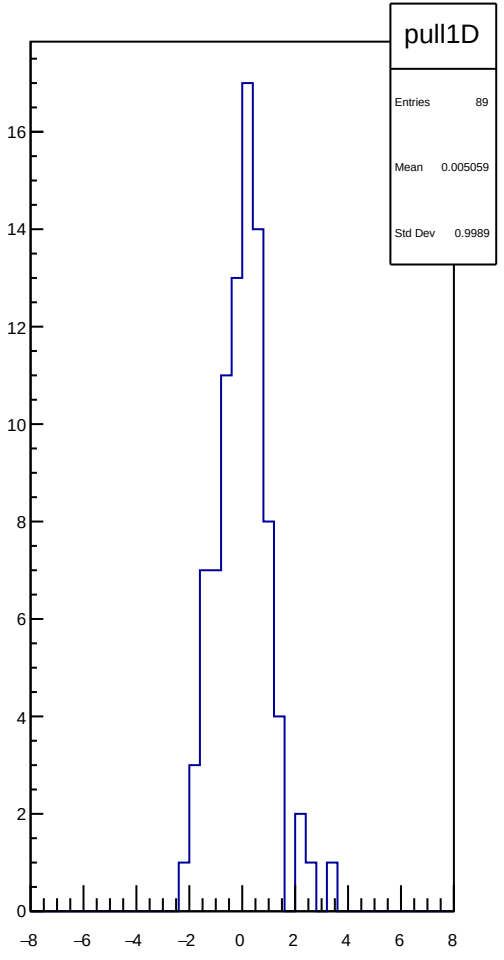

pull1D
Entries 89
Mean 0.02413
Std Dev 0.9227

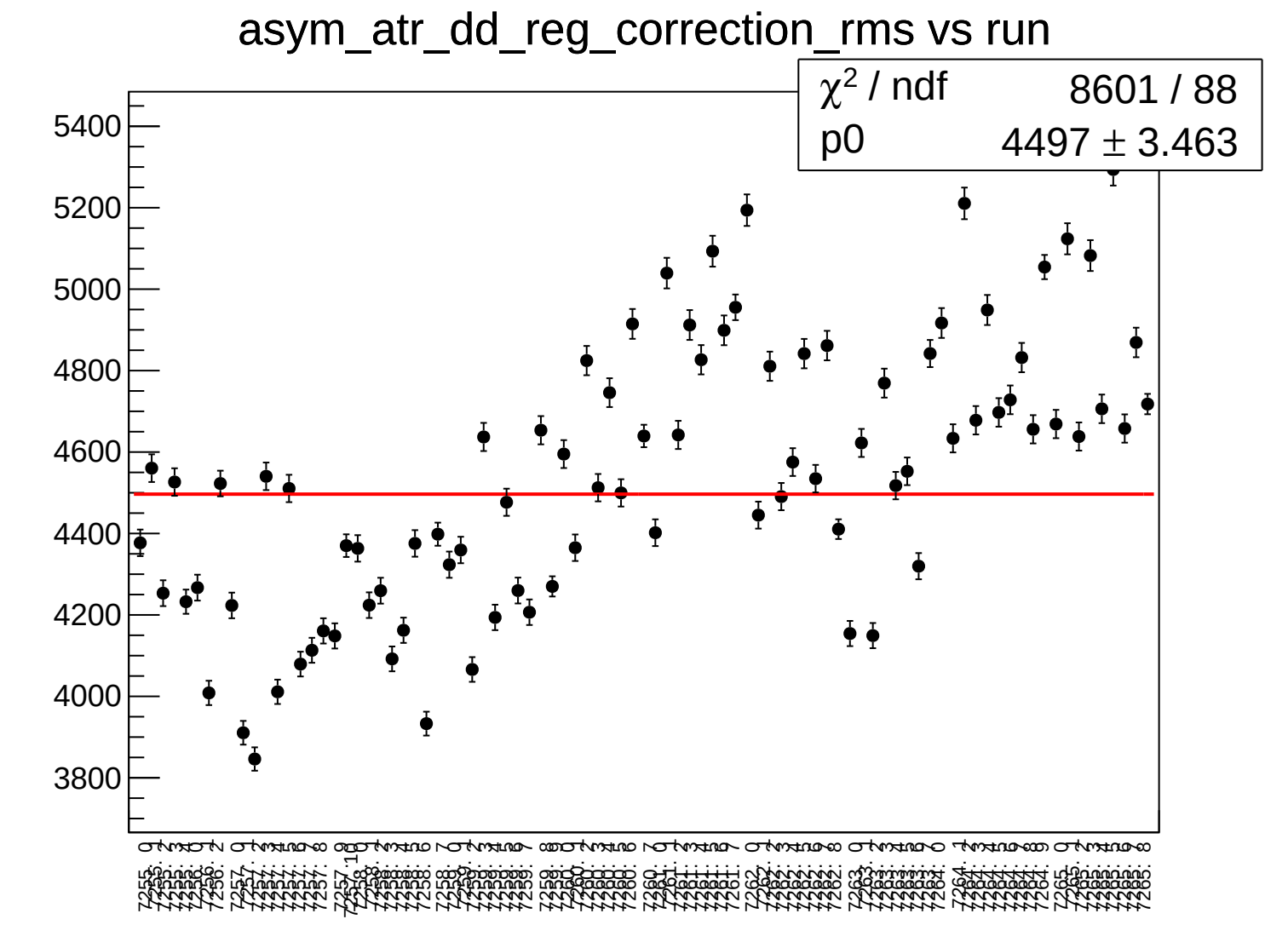

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.855e+05 / 88
p0 5.641e−11 ± 5.129e−14
0.25
0.2
0.15
0.1
0.05

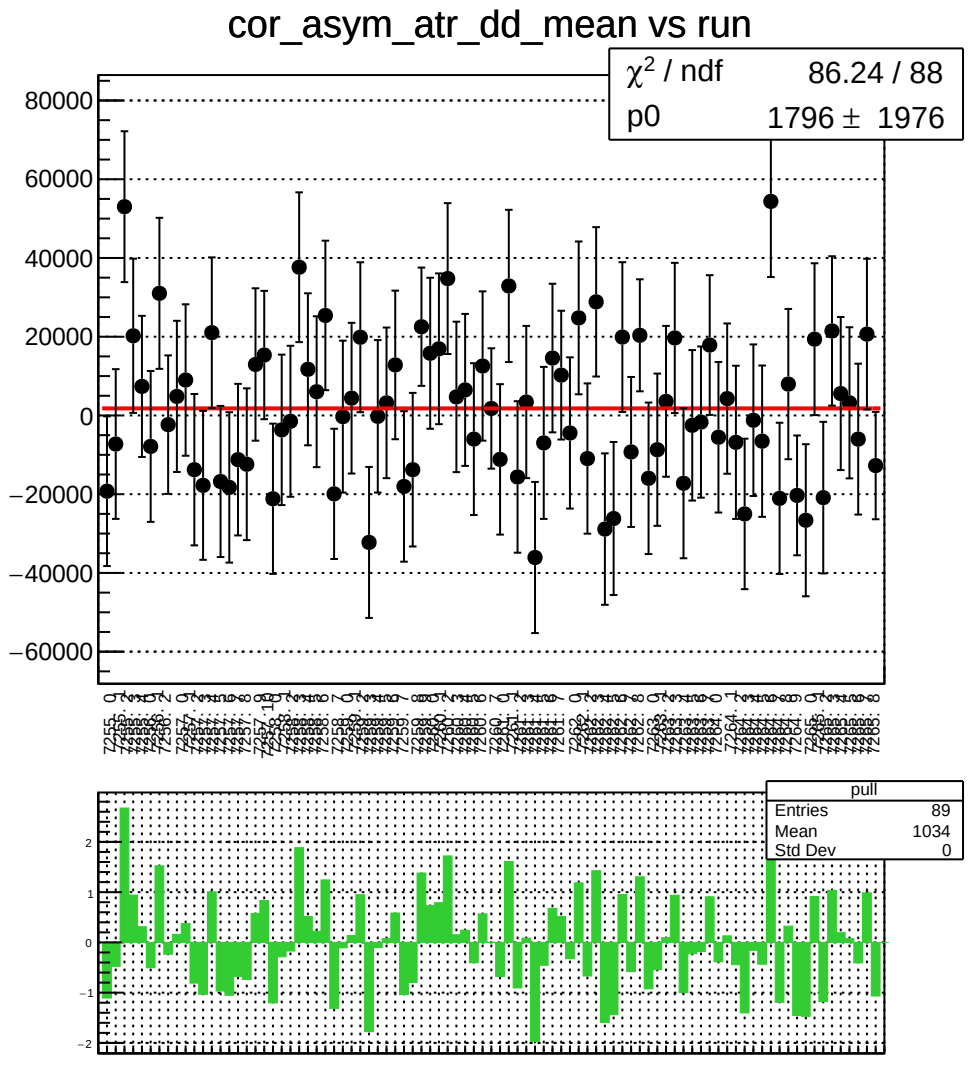

reg_asym_atr_dd_mean vs run
χ² / ndf 86.23 / 88
p0 1796 ± 1976
pull
Entries 89
Mean 1034
Std Dev 0
pull1D
Entries 89
Mean −0.002152
Std Dev 0.9843

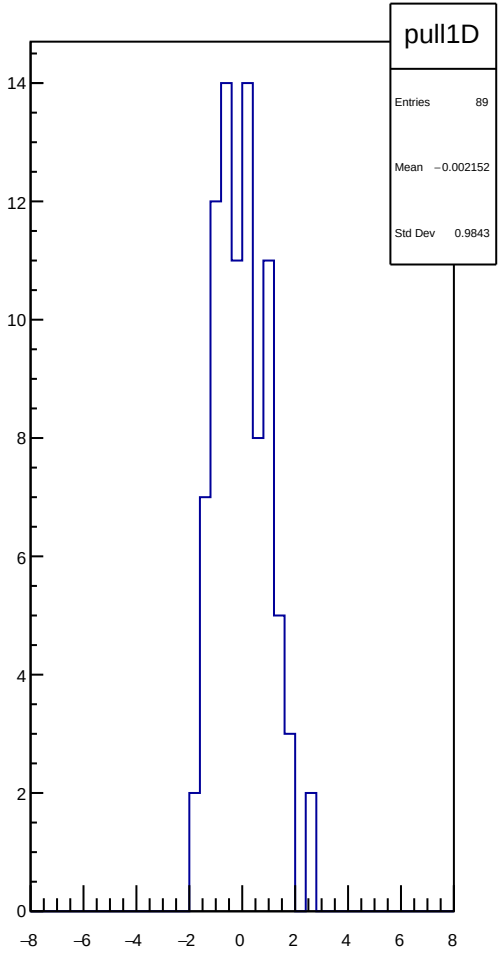

reg_asym_atr_dd_rms vs run
χ² / ndf 86.06 / 88
p0 1819 ± 1.397
1880
1860
1840
1820
1800
1780

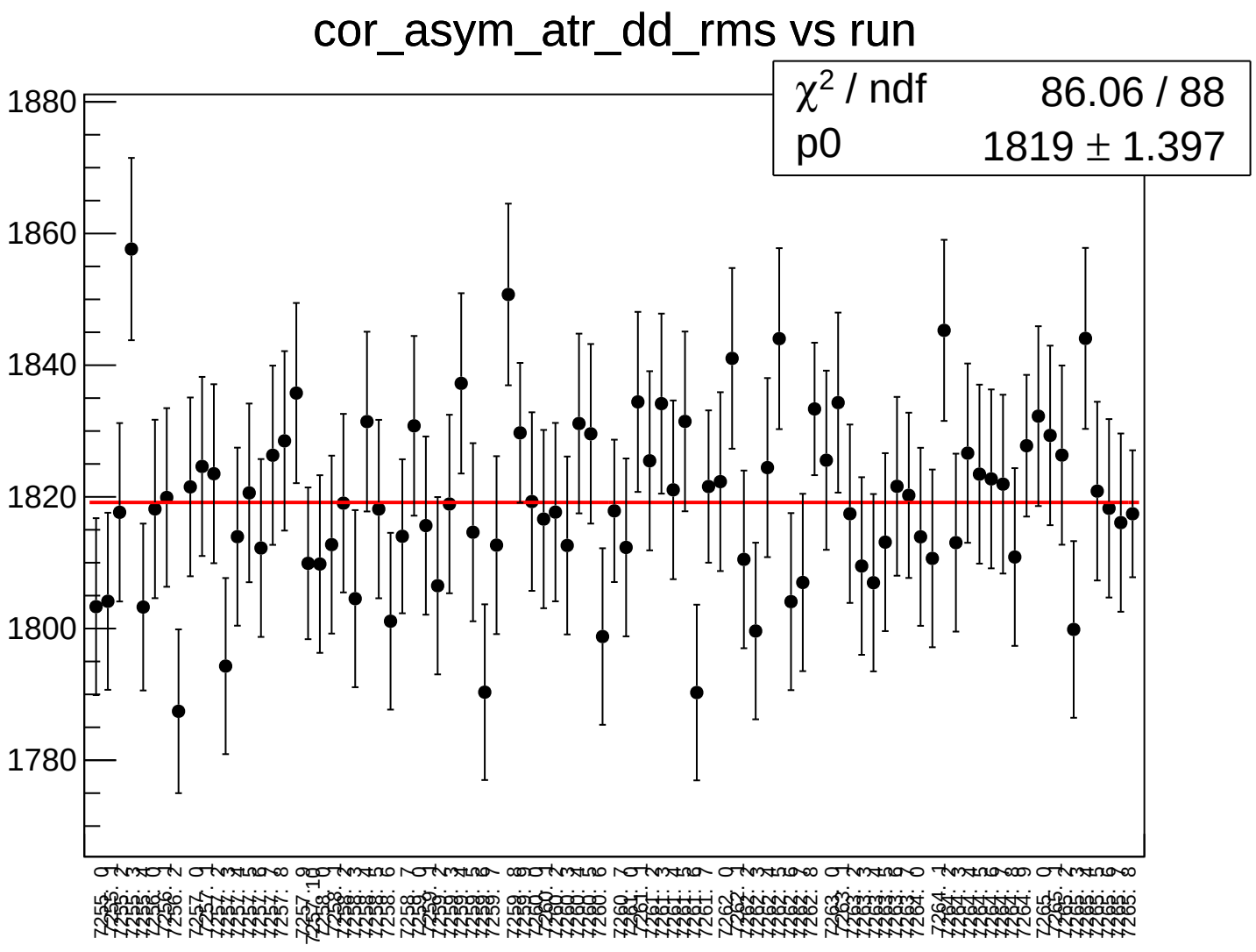

asym_atr_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 88.81 / 88
p0 −4302 ± 4897
pull
Entries 89
Mean 940.5
Std Dev 0

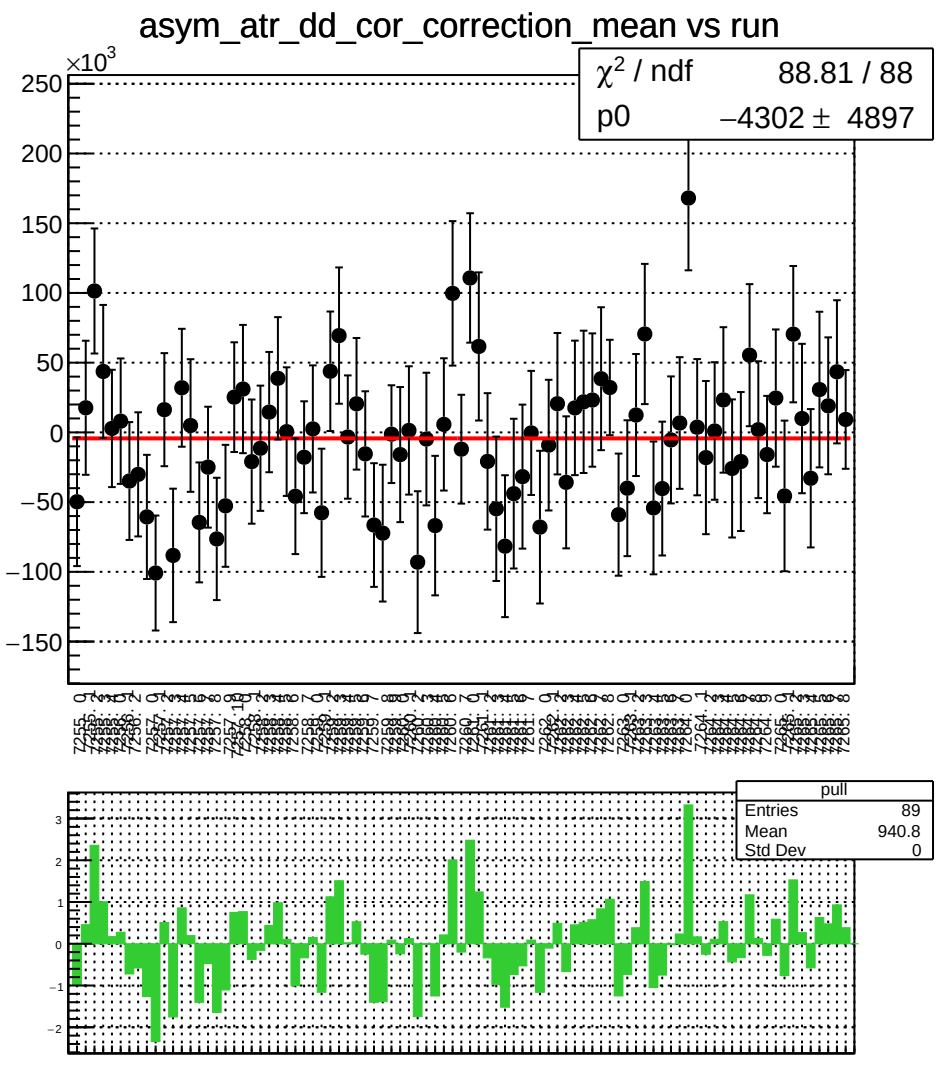

pull1D
Entries 89
Mean 0.005059
Std Dev 0.9989

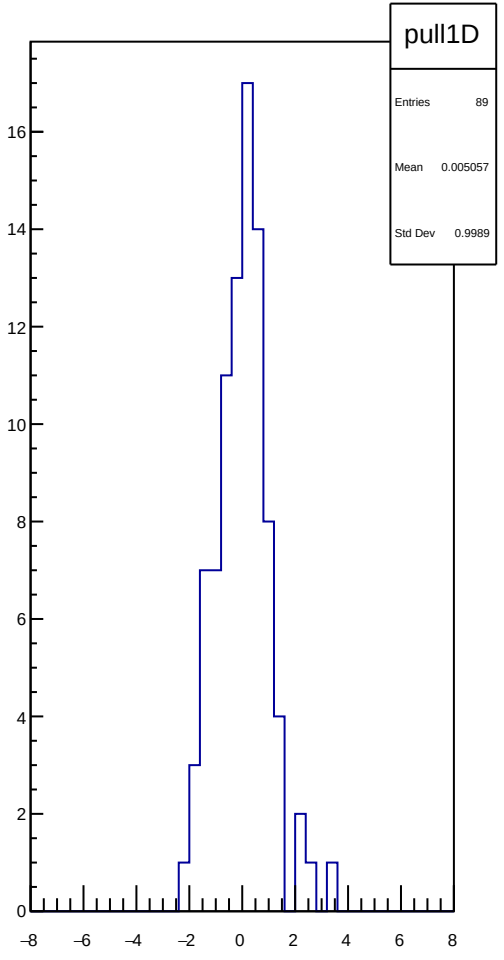

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 8601 / 88
p0 4497 ± 3.463
5400
5200
5000
4800
4600
4400
4200
4000
3800

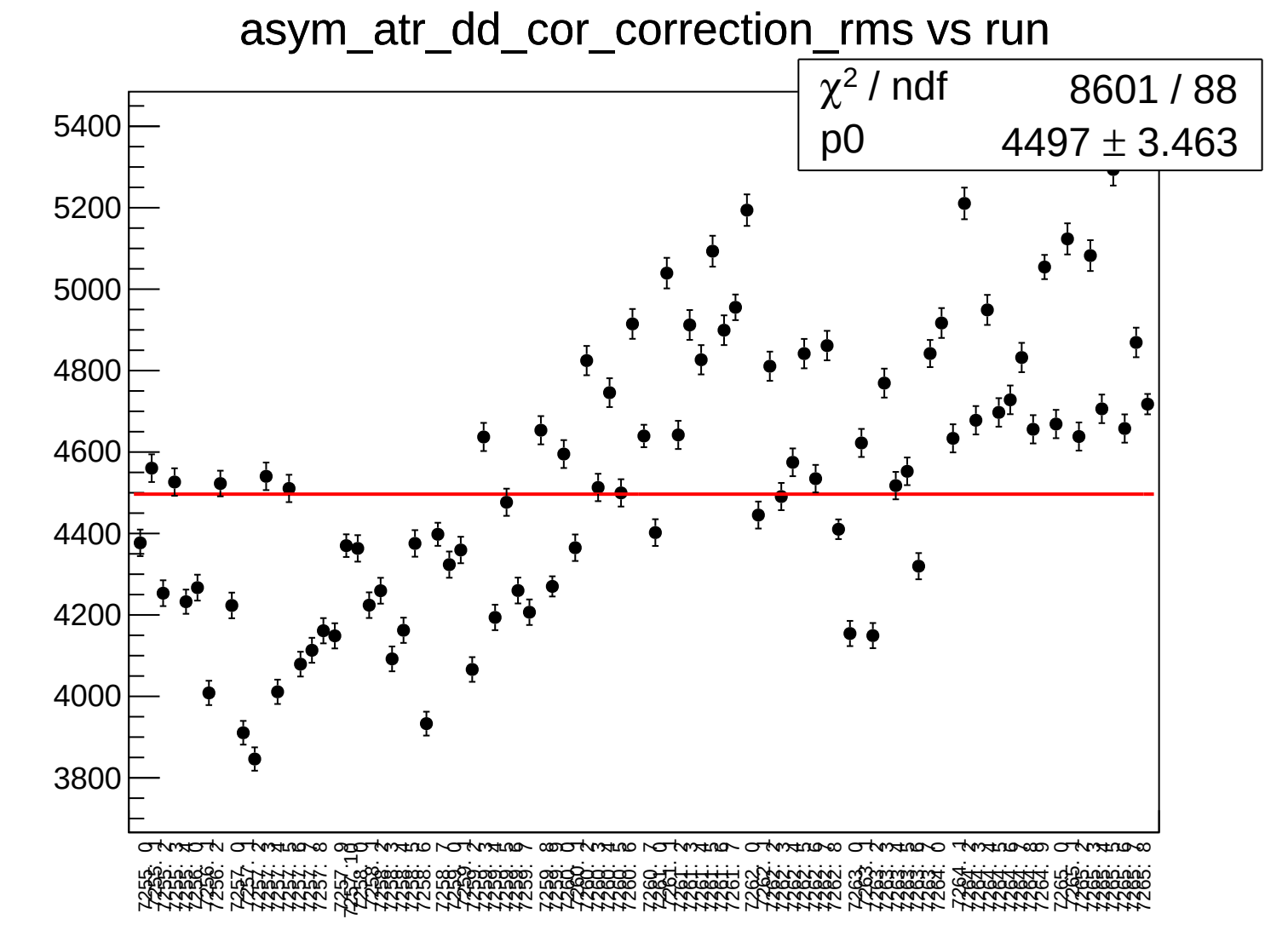

cor_asym_atr_dd_mean vs run
χ² / ndf 86.24 / 88
p0 1796 ± 1976
pull
Entries 89
Mean 1034
Std Dev 0

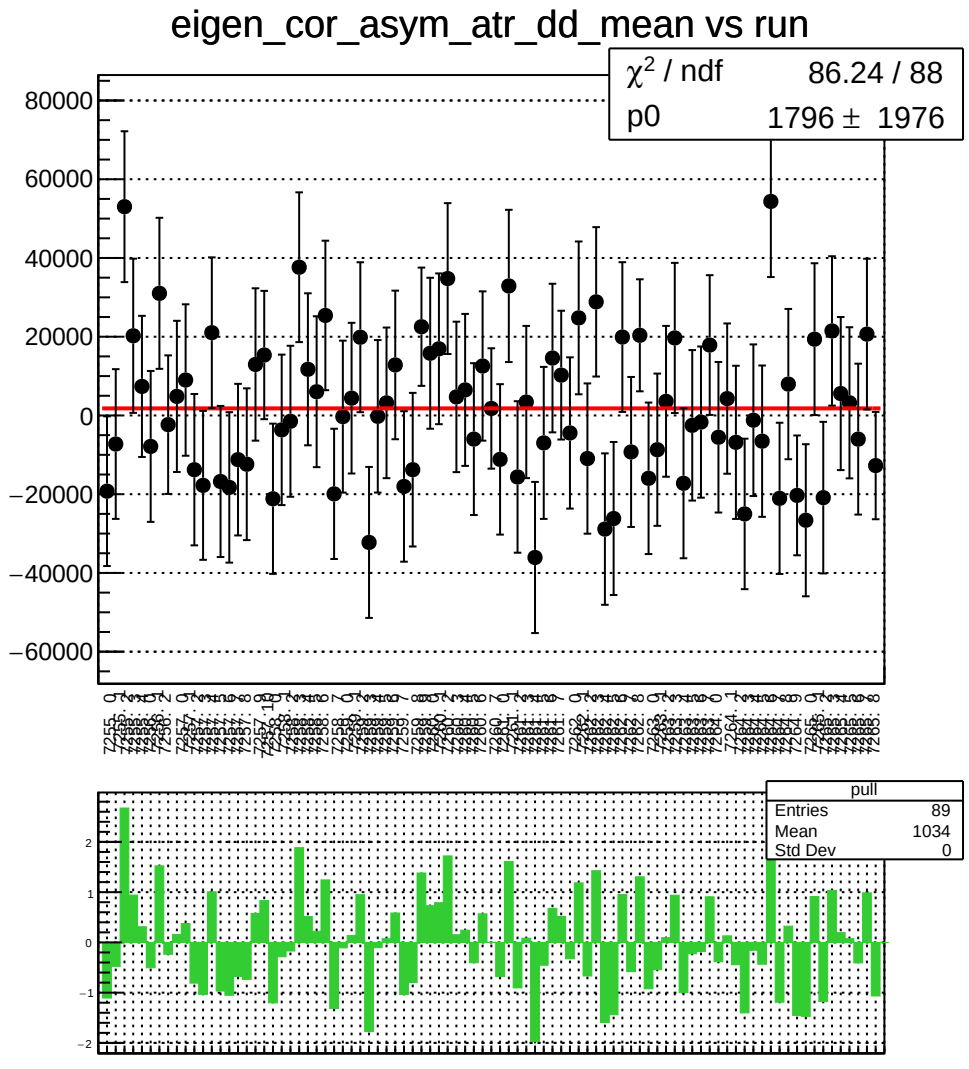

pull1D
Entries 89
Mean −0.002152
Std Dev 0.9843

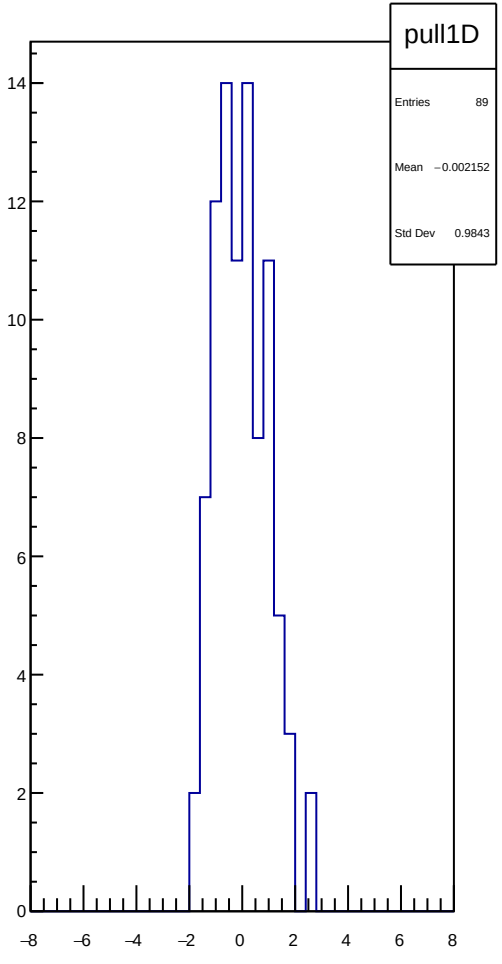

cor_asym_atr_dd_rms vs run
χ^2 / ndf 86.06 / 88
p0 1819 ± 1.397
1880
1860
1840
1820
1800
1780

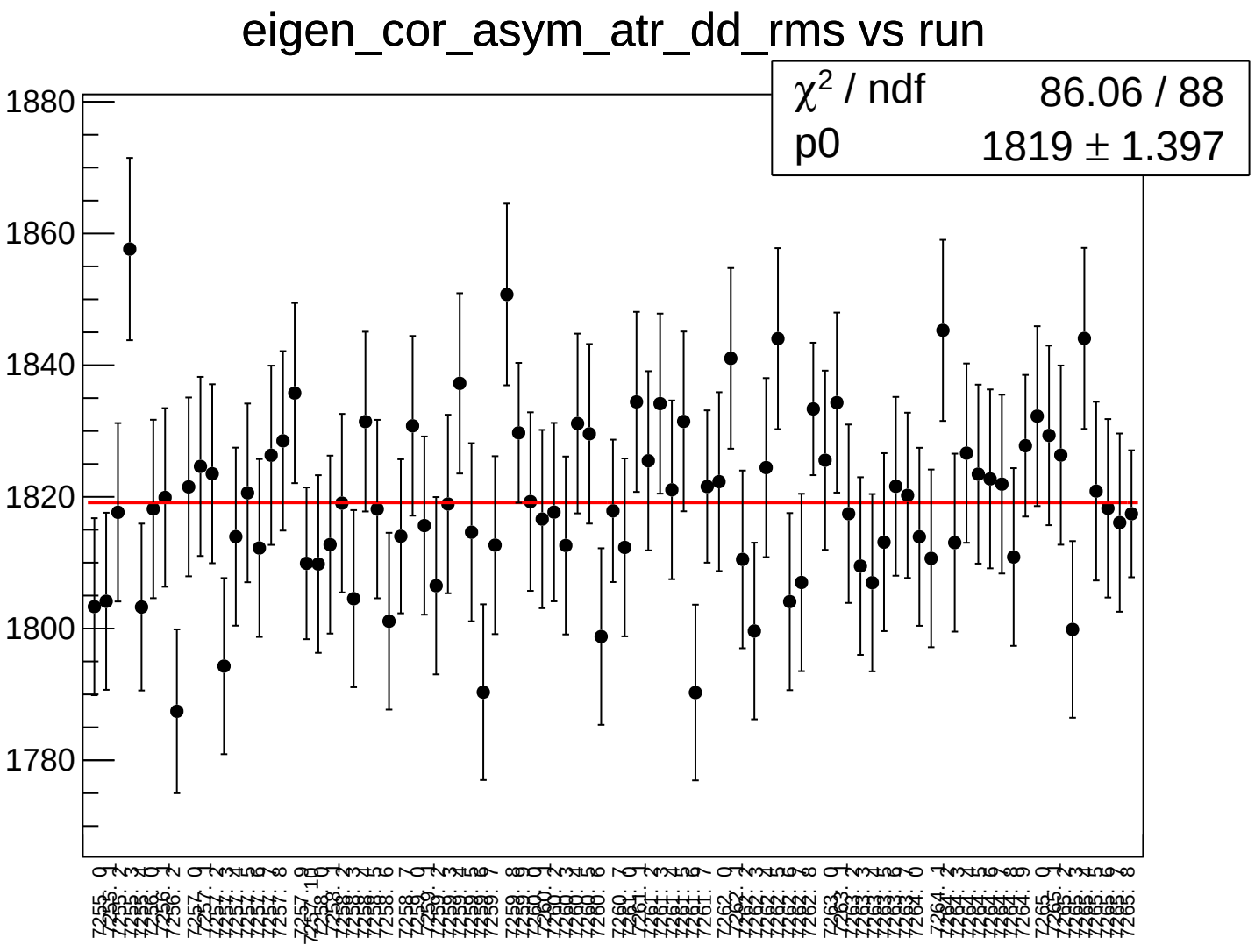

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 88.81 / 88
p0 −4302 ± 4897
pull
Entries 89
Mean 940.8
Std Dev 0

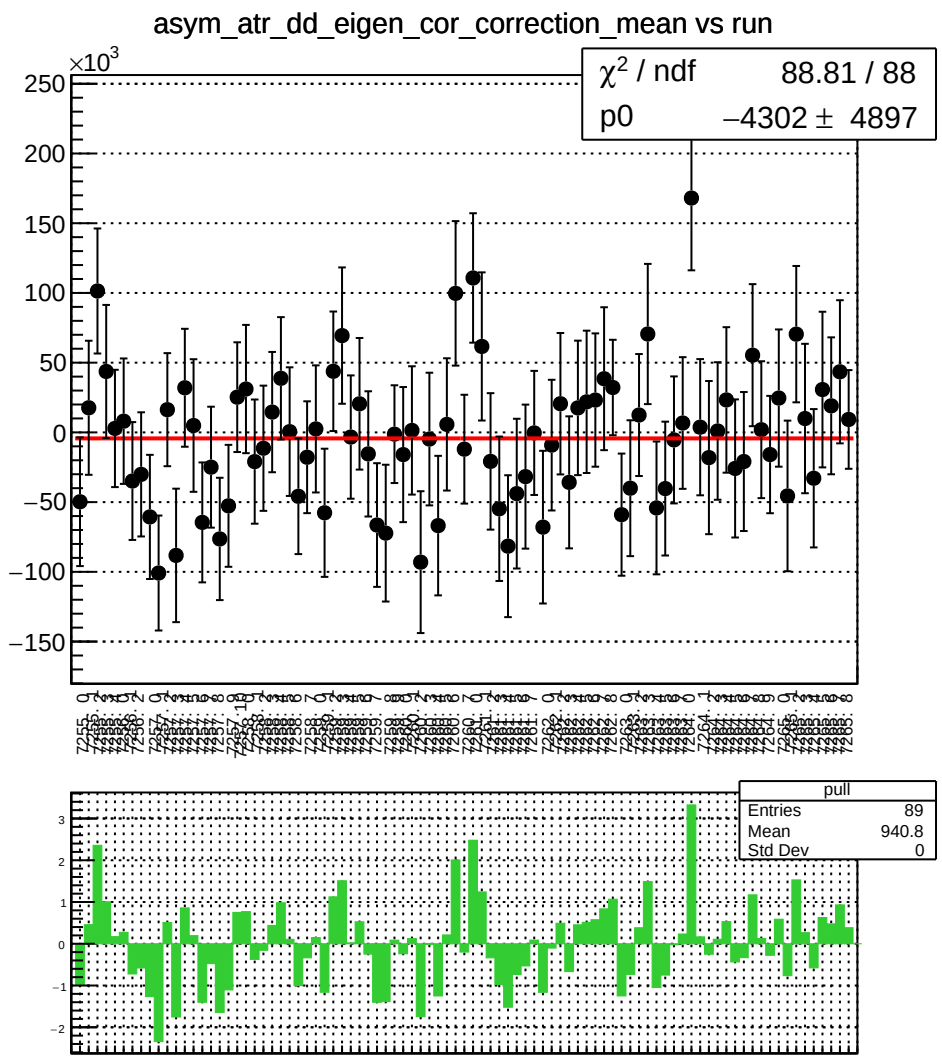

pull1D
Entries 89
Mean 0.005057
Std Dev 0.9989

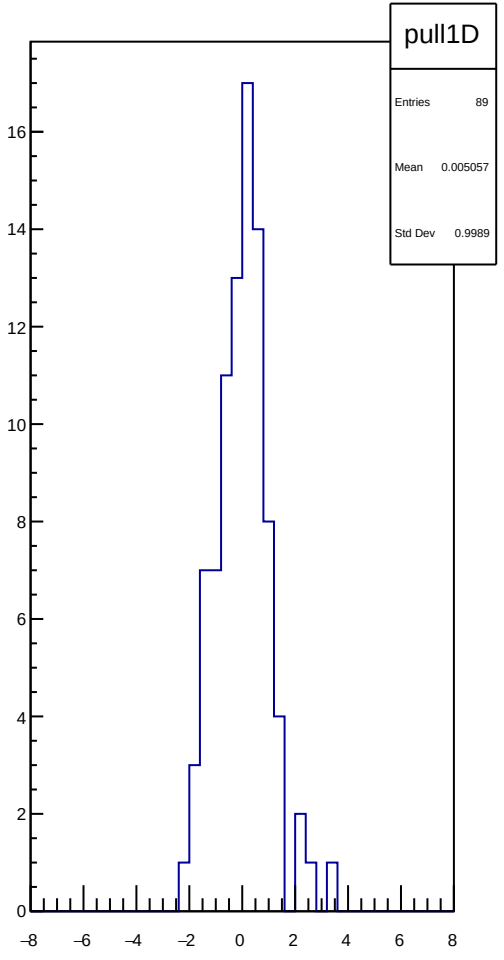

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 8601 / 88
p0 4497 ± 3.463
5400
5200
5000
4800
4600
4400
4200
4000
3800

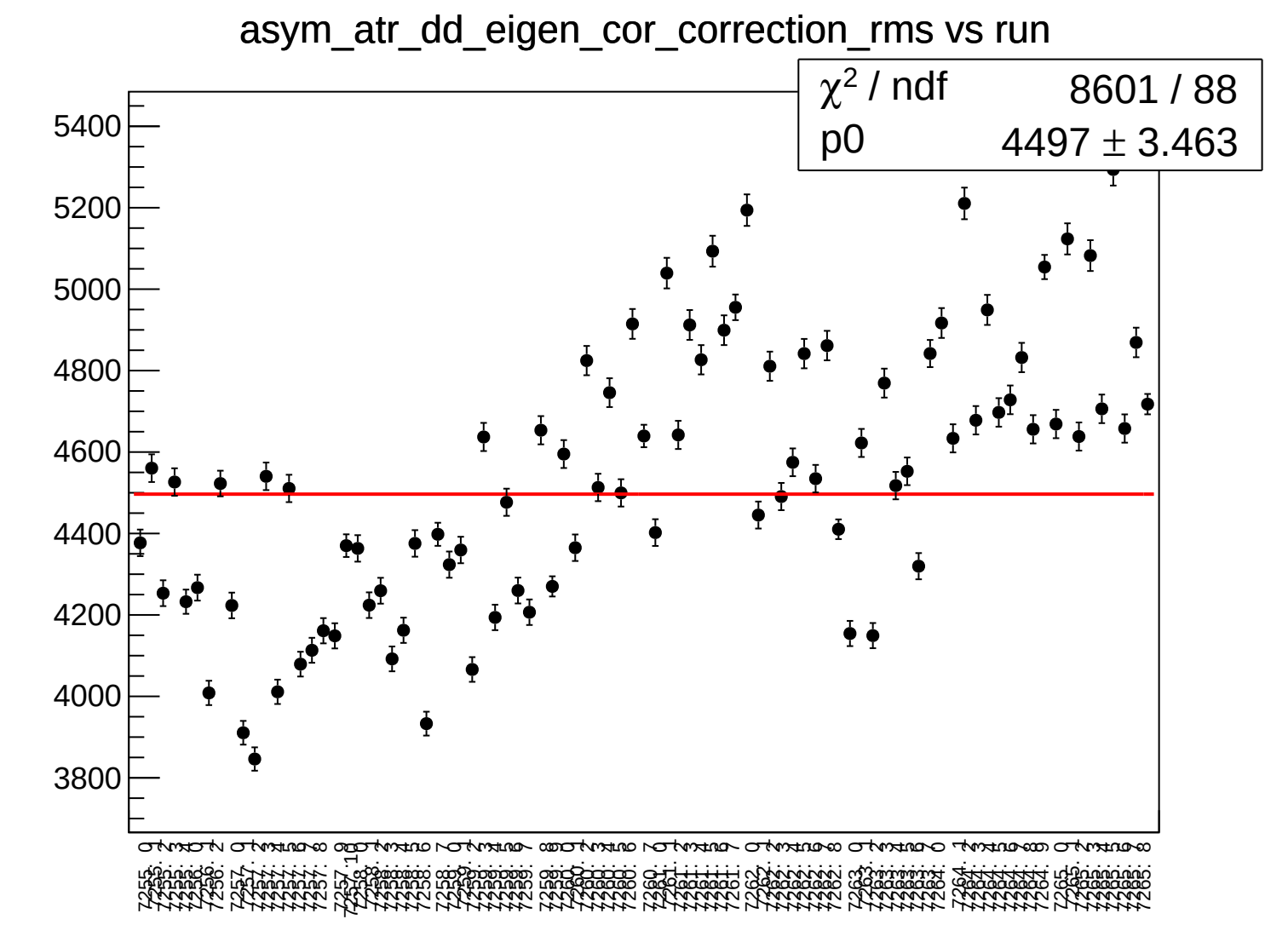

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 86.24 / 88
p0 1796 ± 1976
pull
Entries 89
Mean 1034
Std Dev 0

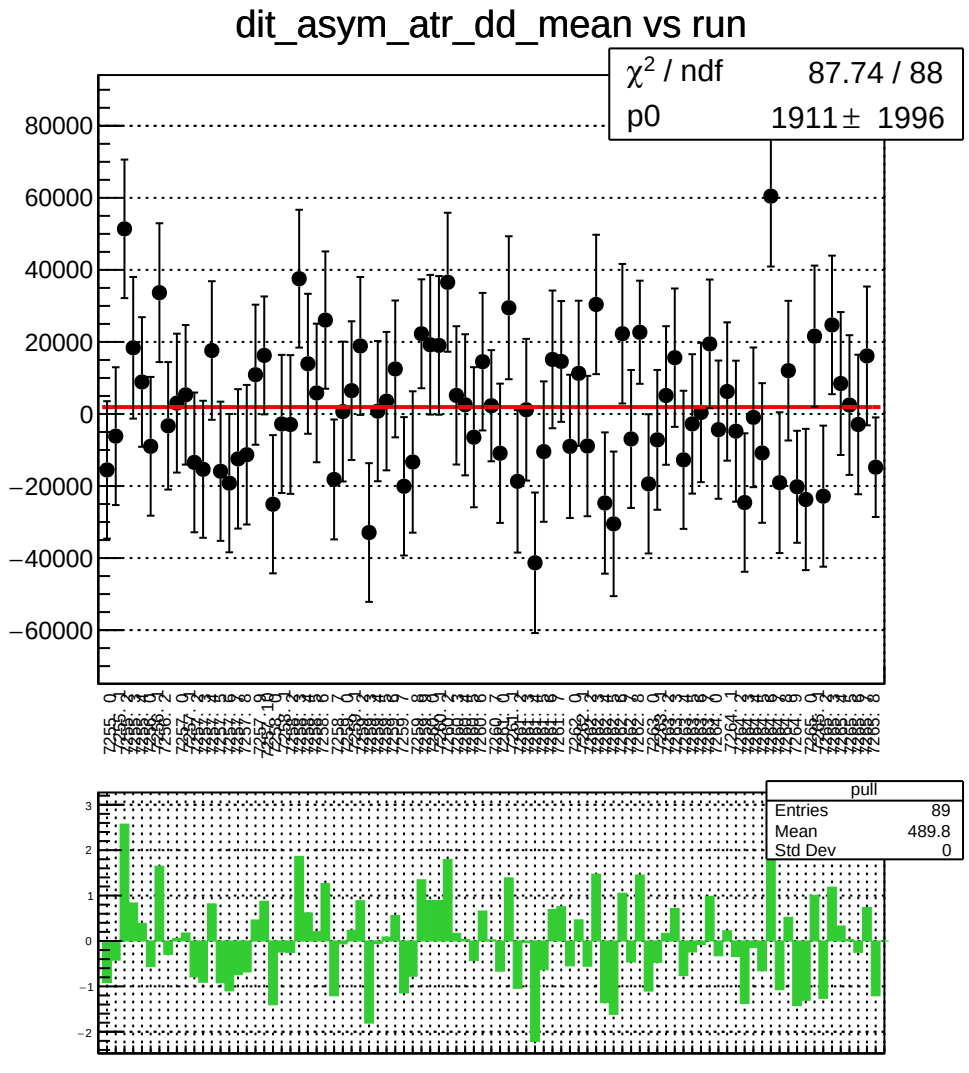

pull1D
Entries 89
Mean −0.002152
Std Dev 0.9843

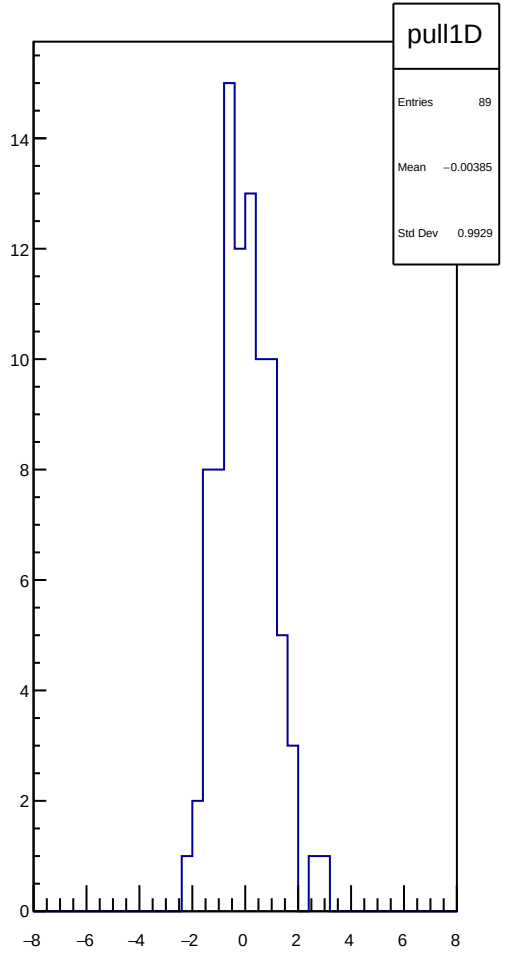

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 86.06 / 88
p0 1819 ± 1.397
1880
1860
1840
1820
1800
1780

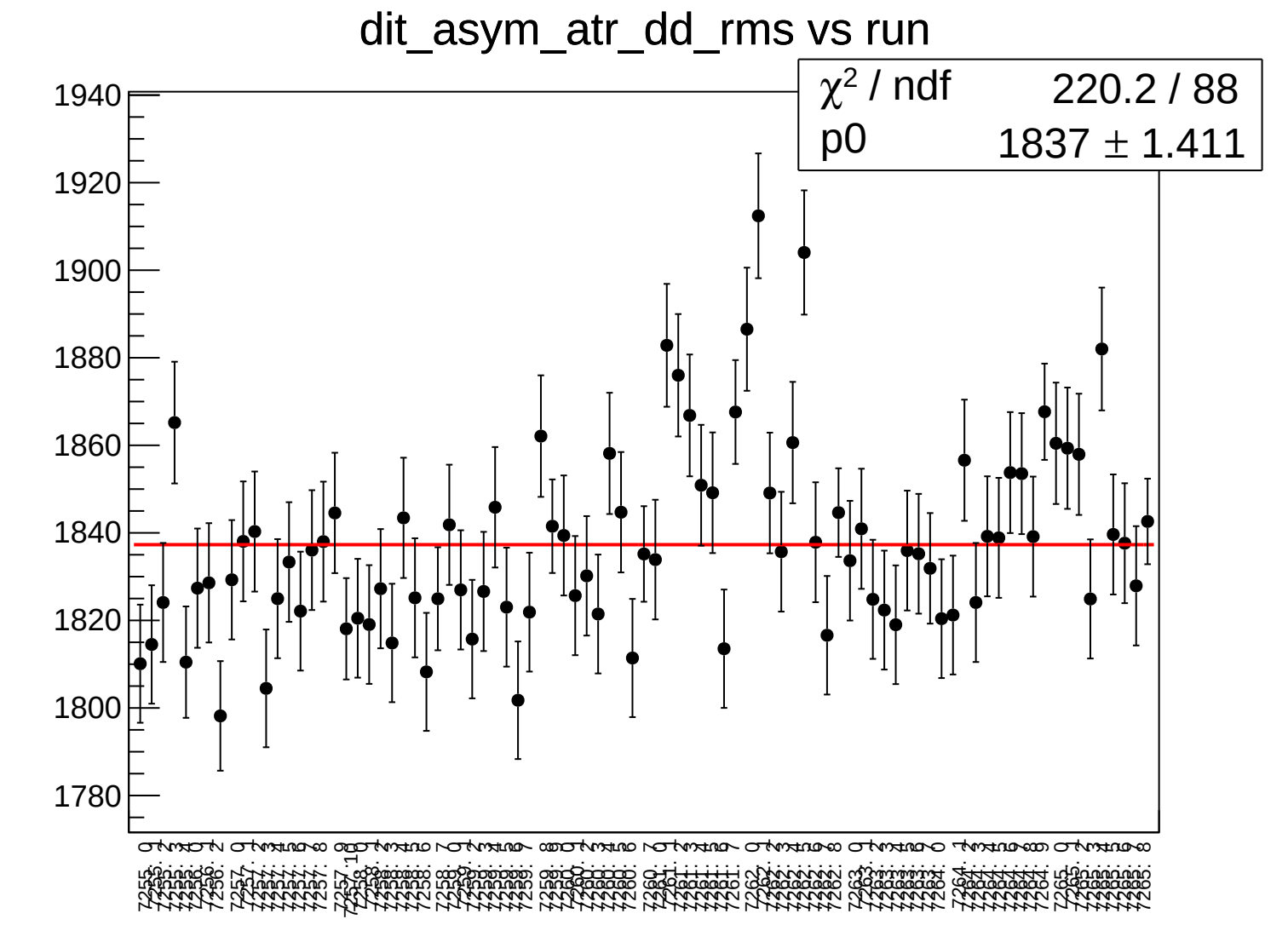

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.81 / 88
p0 −4302 ± 4897
pull
Entries 89
Mean 940.8
Std Dev 0

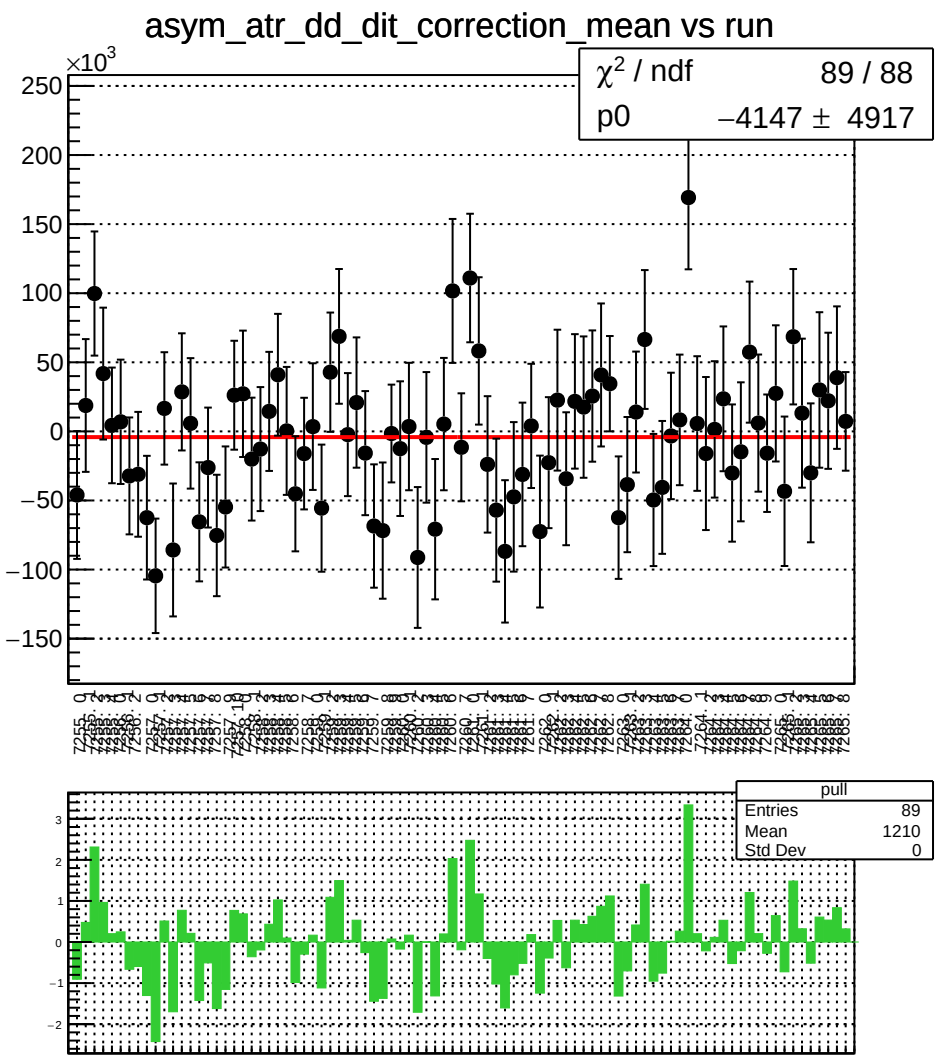

pull1D
Entries 89
Mean 0.005057
Std Dev 0.9989

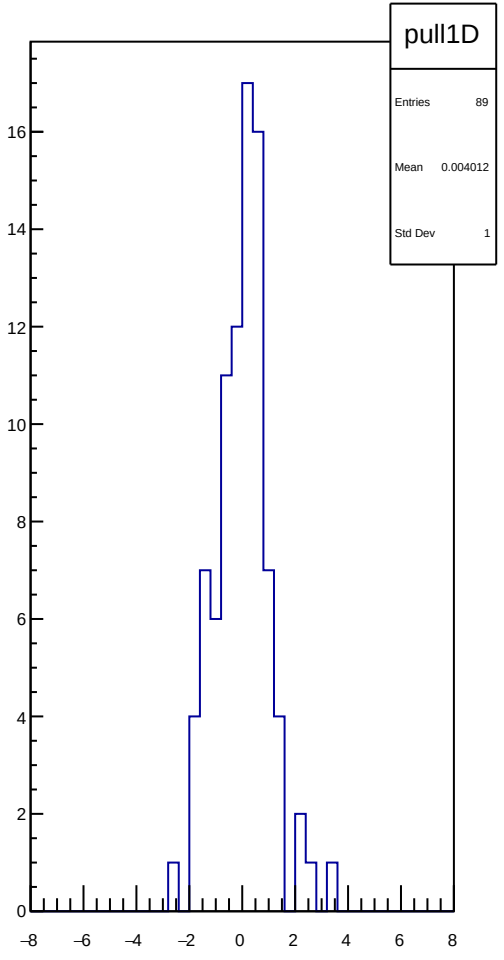

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 8601 / 88
p0 4497 ± 3.463
5400
5200
5000
4800
4600
4400
4200
4000
3800

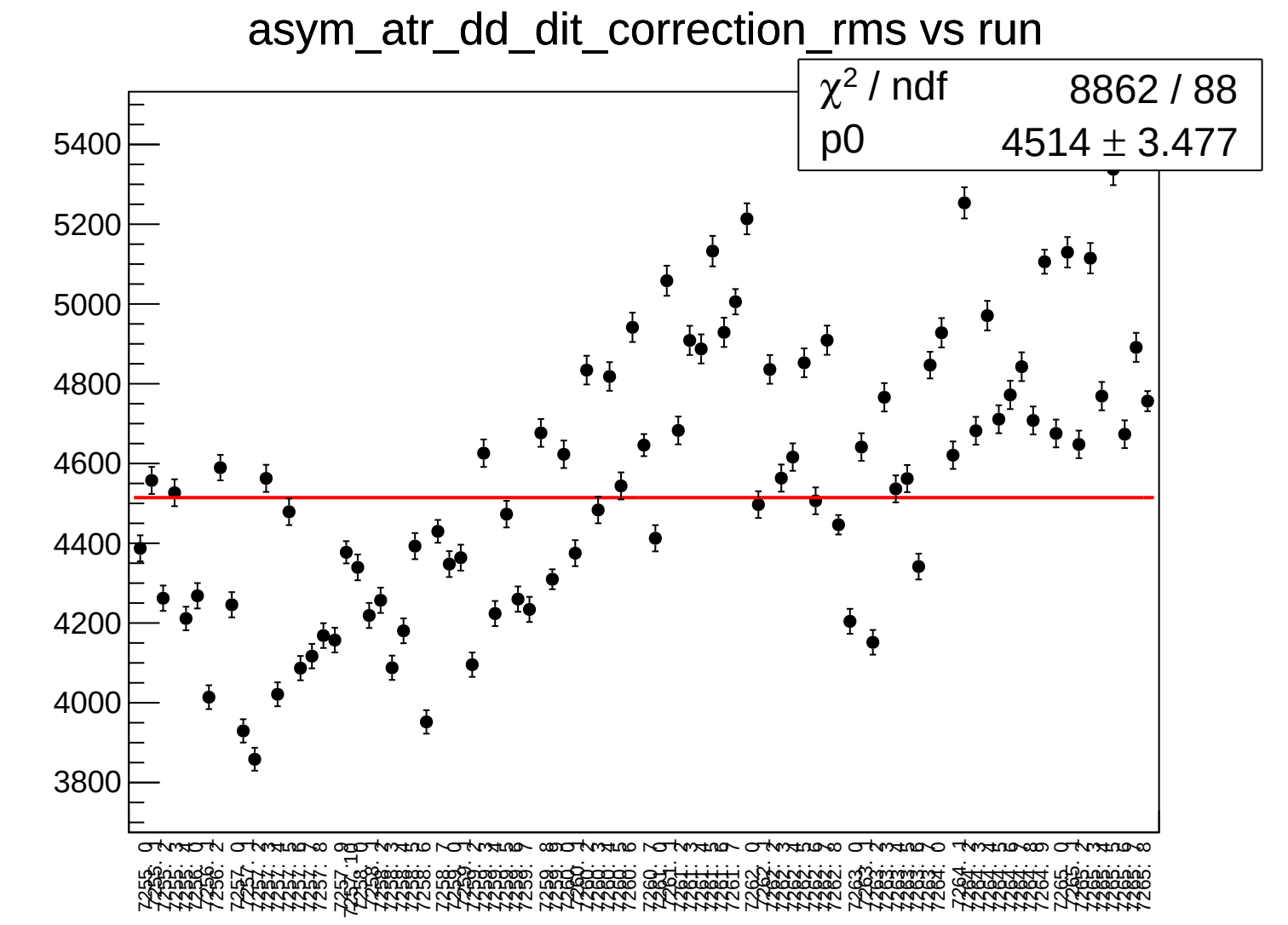

dit_asym_atr_dd_mean vs run
χ² / ndf 87.74 / 88
p0 1911 ± 1996
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 489.8
Std Dev 0
3
2
1
0
−1
−2

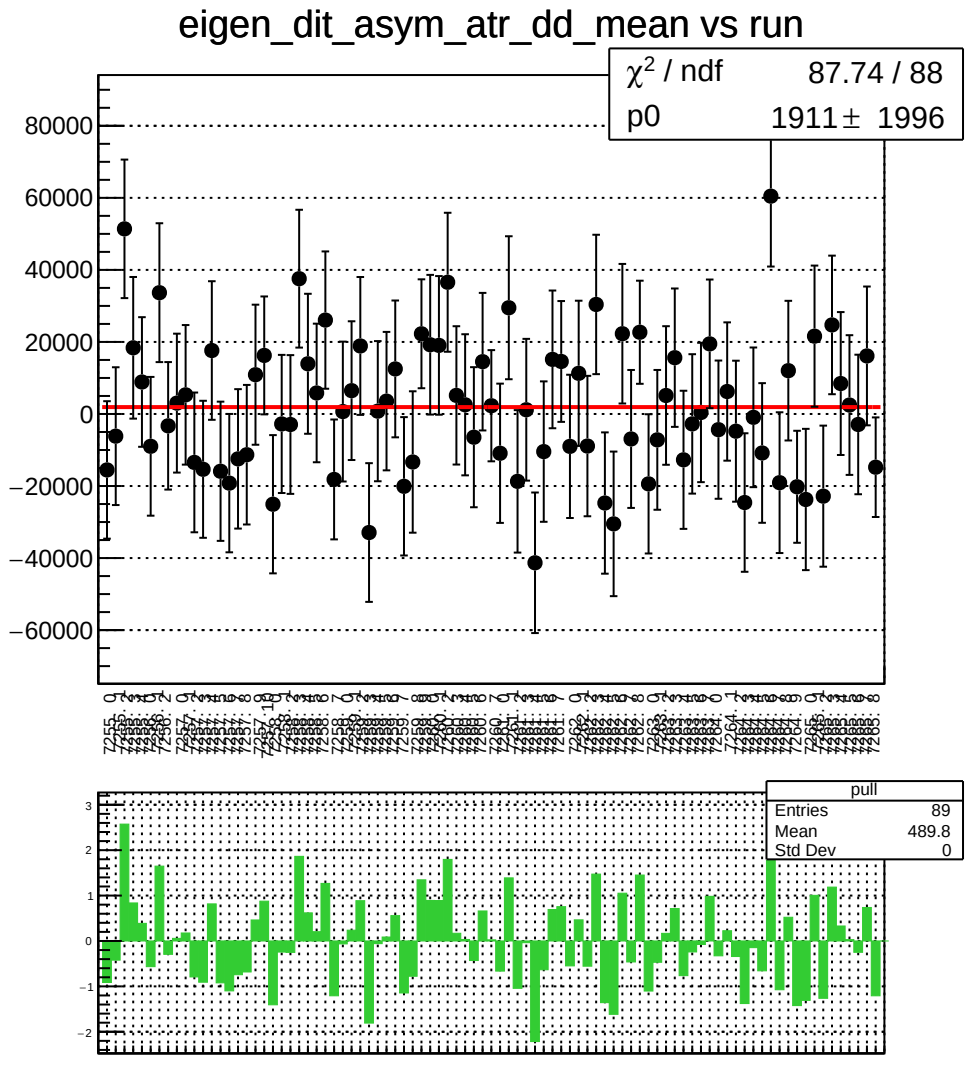

pull1D
Entries 89
Mean −0.00385
Std Dev 0.9929
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

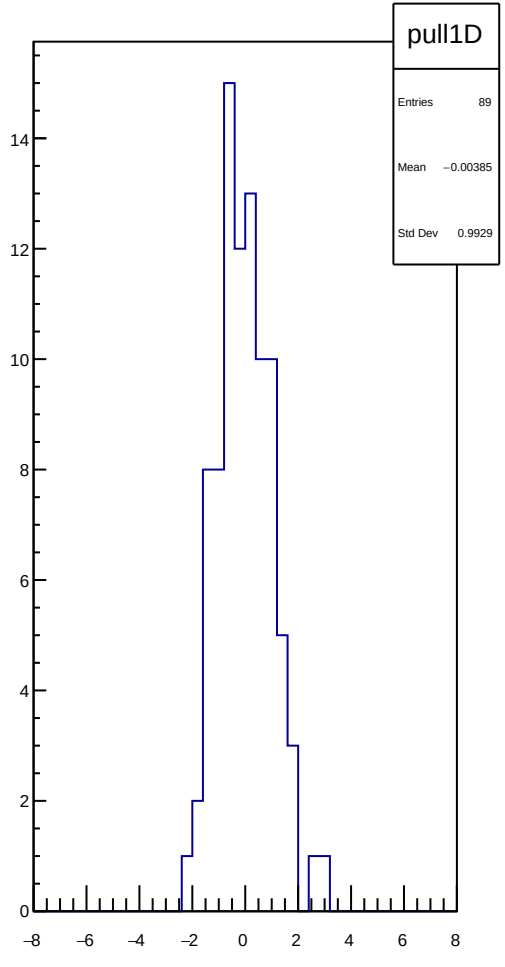

dit_asym_atr_dd_rms vs run
χ² / ndf 220.2 / 88
p0 1837 ± 1.411
1940
1920
1900
1880
1860
1840
1820
1800
1780

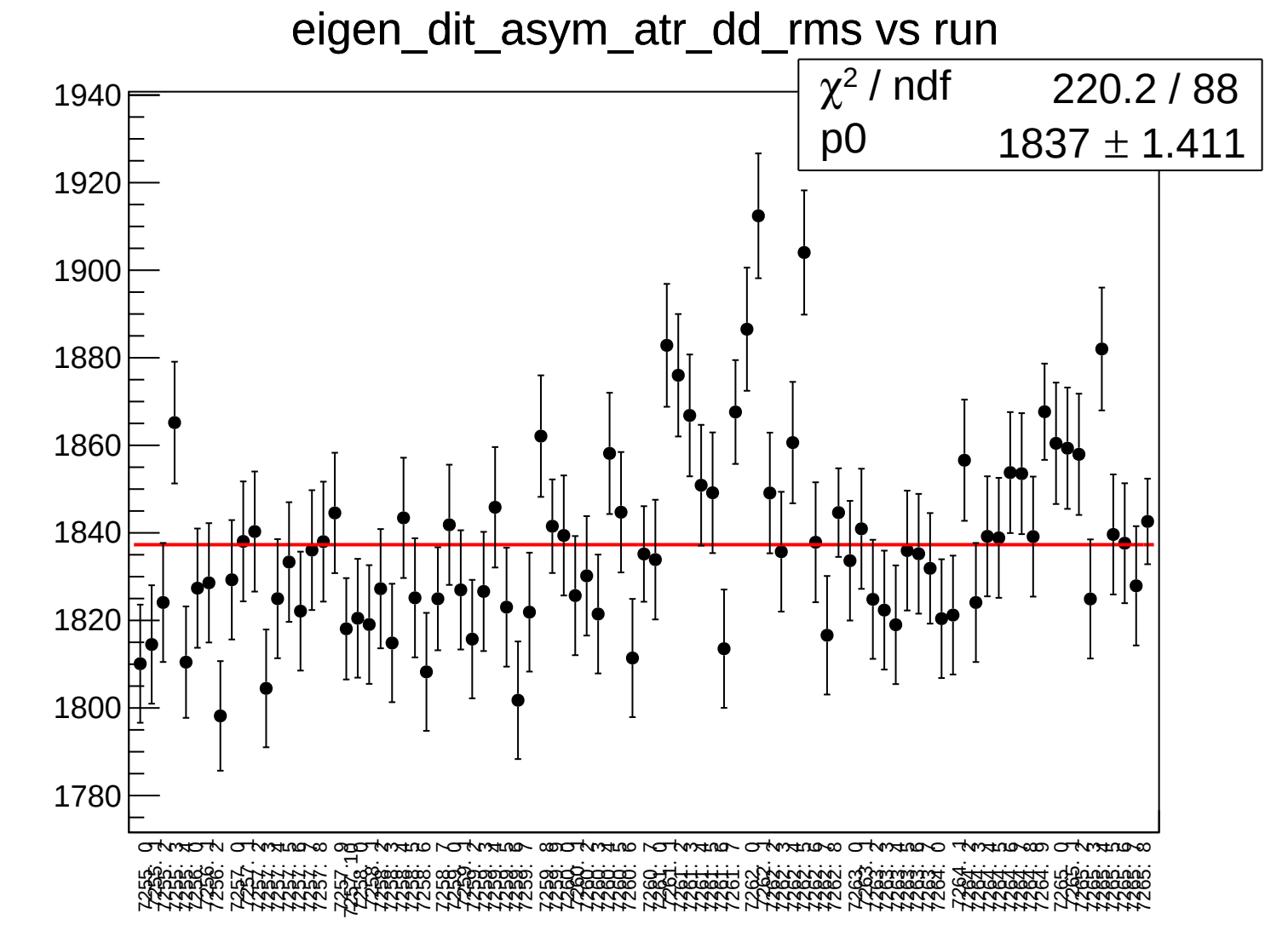

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 89 / 88
p0 −4147 ± 4917
pull
Entries 89
Mean 1210
Std Dev 0

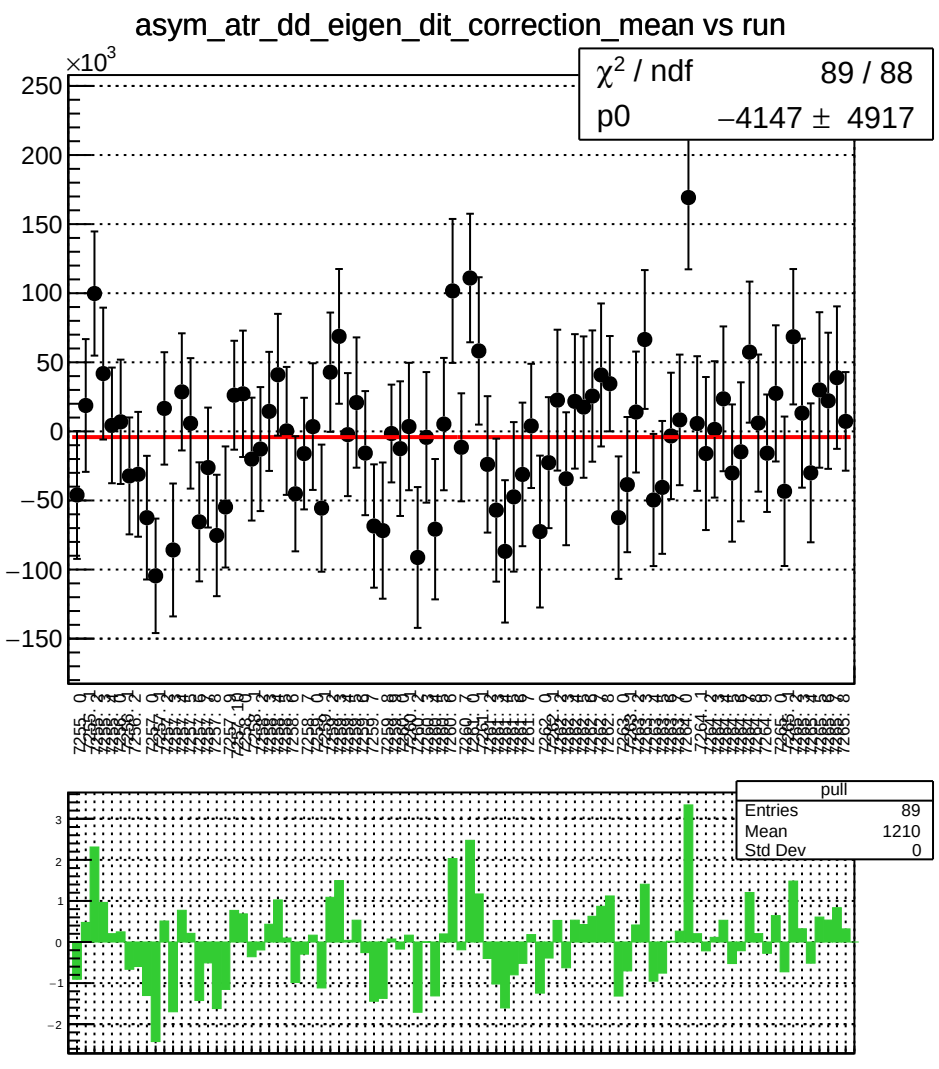

pull1D
Entries 89
Mean 0.004012
Std Dev 1

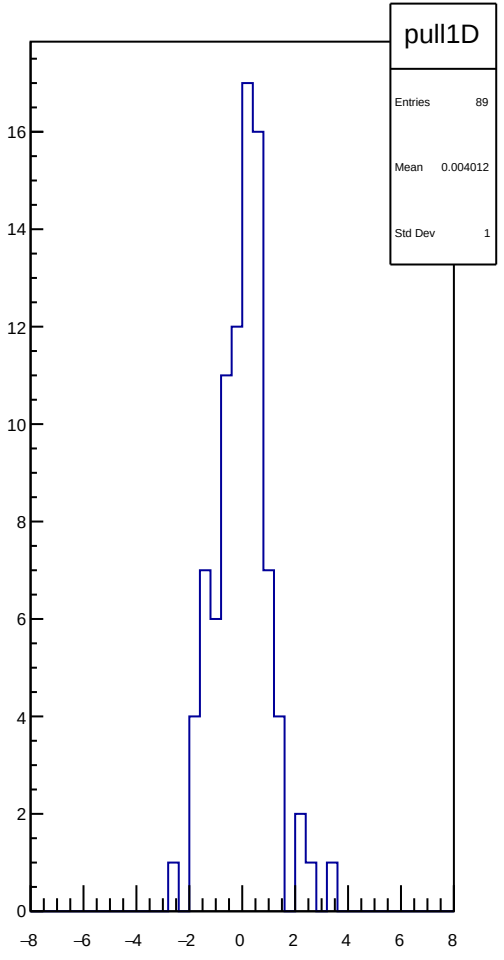

asym_atr_dd_dit_correction_rms vs run
χ^2 / ndf 8862 / 88
p0 4514 ± 3.477
5400
5200
5000
4800
4600
4400
4200
4000
3800

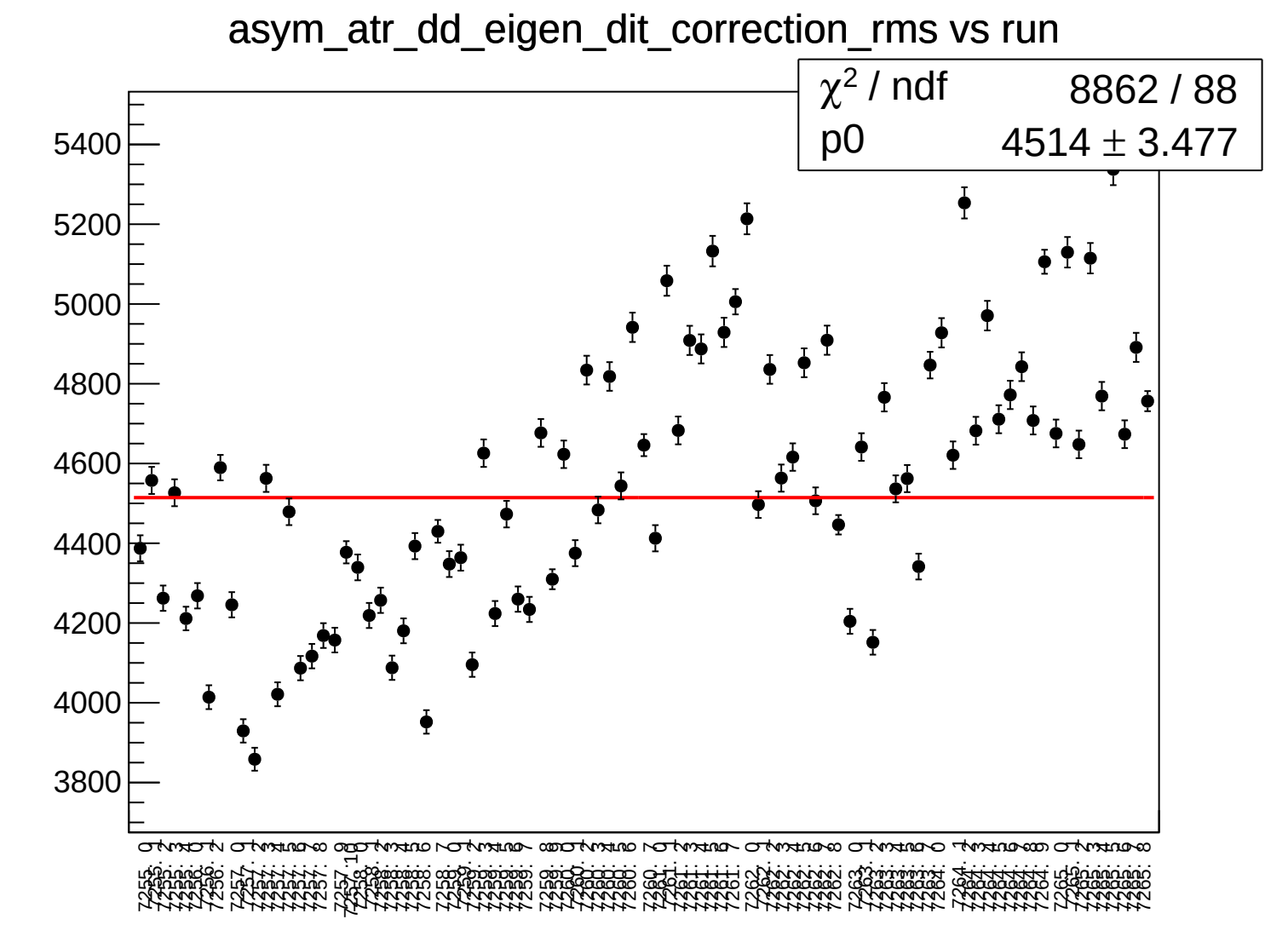

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 87.74 / 88
p0 1911 ± 1996
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 489.8
Std Dev 0
3
2
1
0
−1
−2

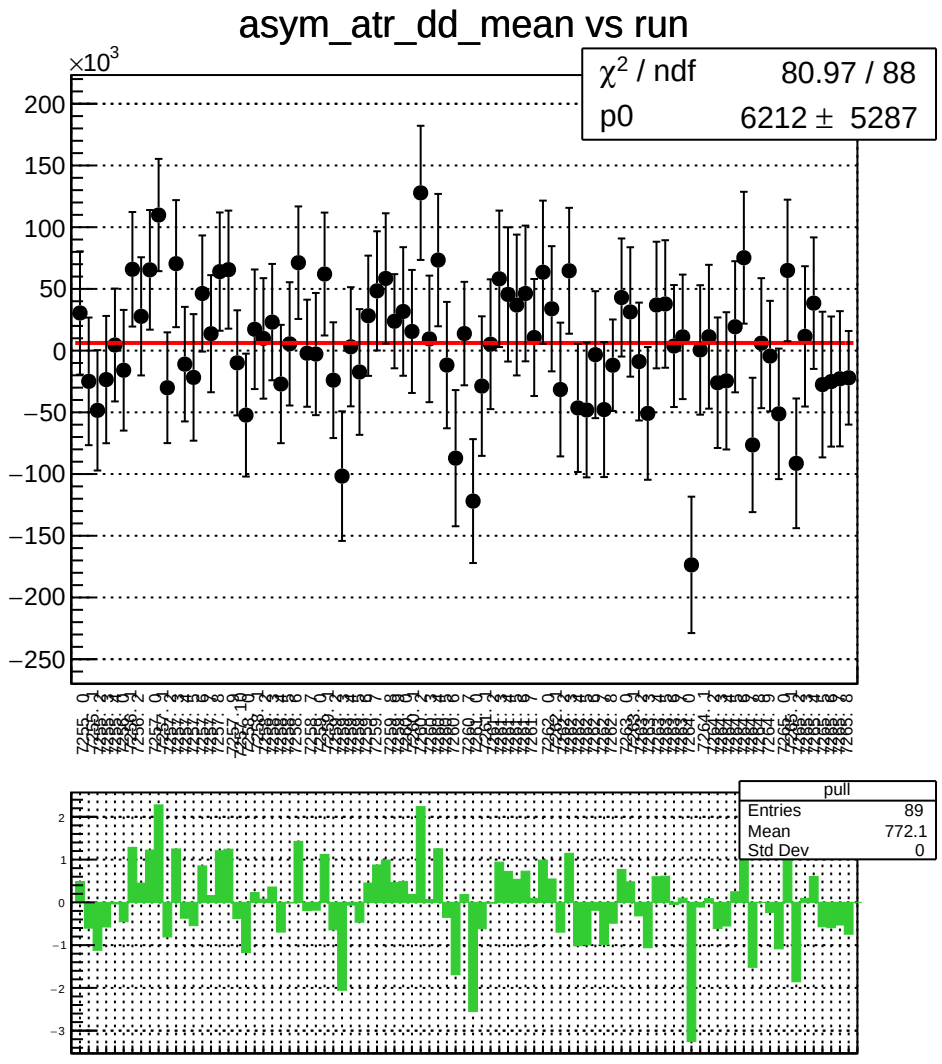

pull1D
Entries 89
Mean −0.00385
Std Dev 0.9929
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

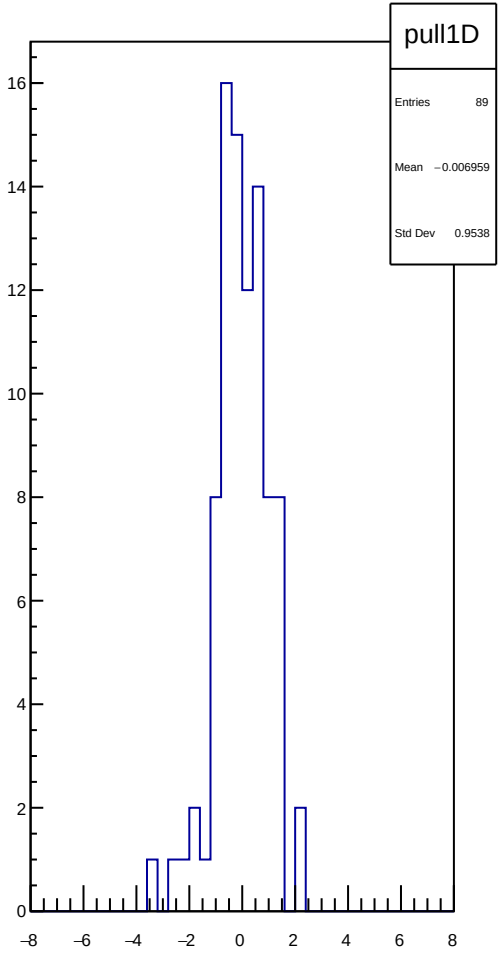

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 220.2 / 88
p0 1837 ± 1.411
1940
1920
1900
1880
1860
1840
1820
1800
1780

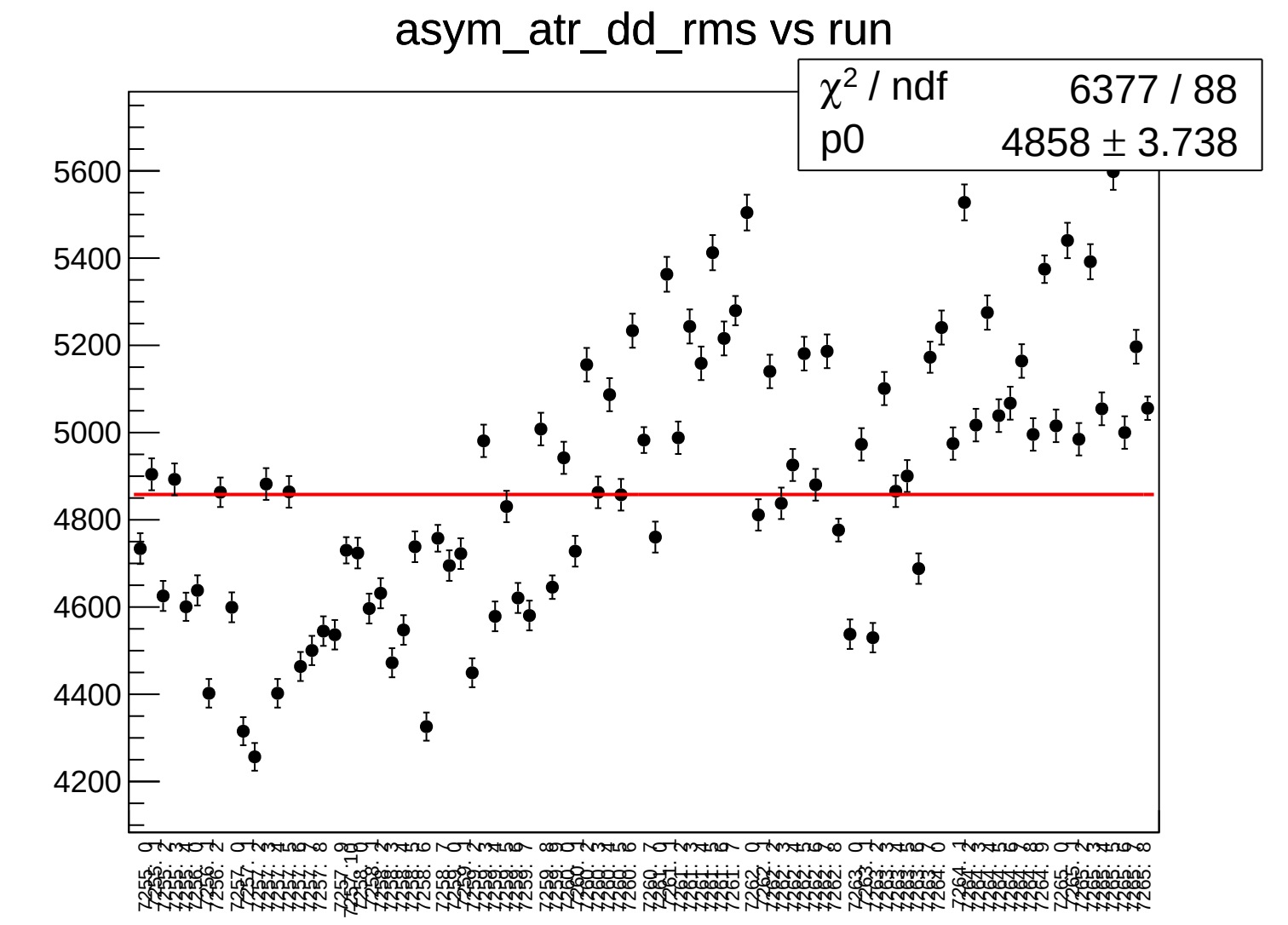

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89 / 88
p0 −4147 ± 4917
pull
Entries 89
Mean 1210
Std Dev 0

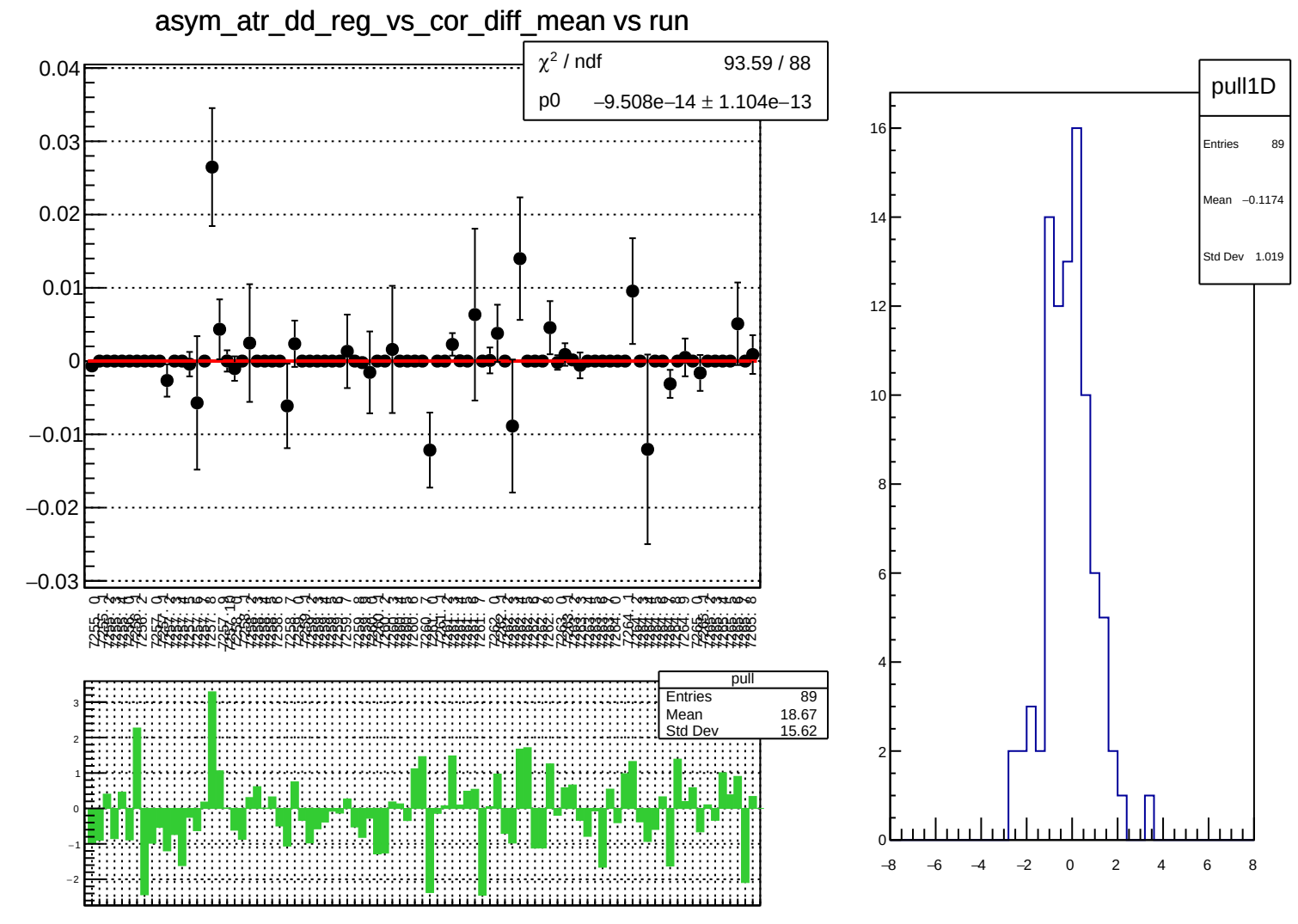

pull1D
Entries 89
Mean 0.004012
Std Dev 1

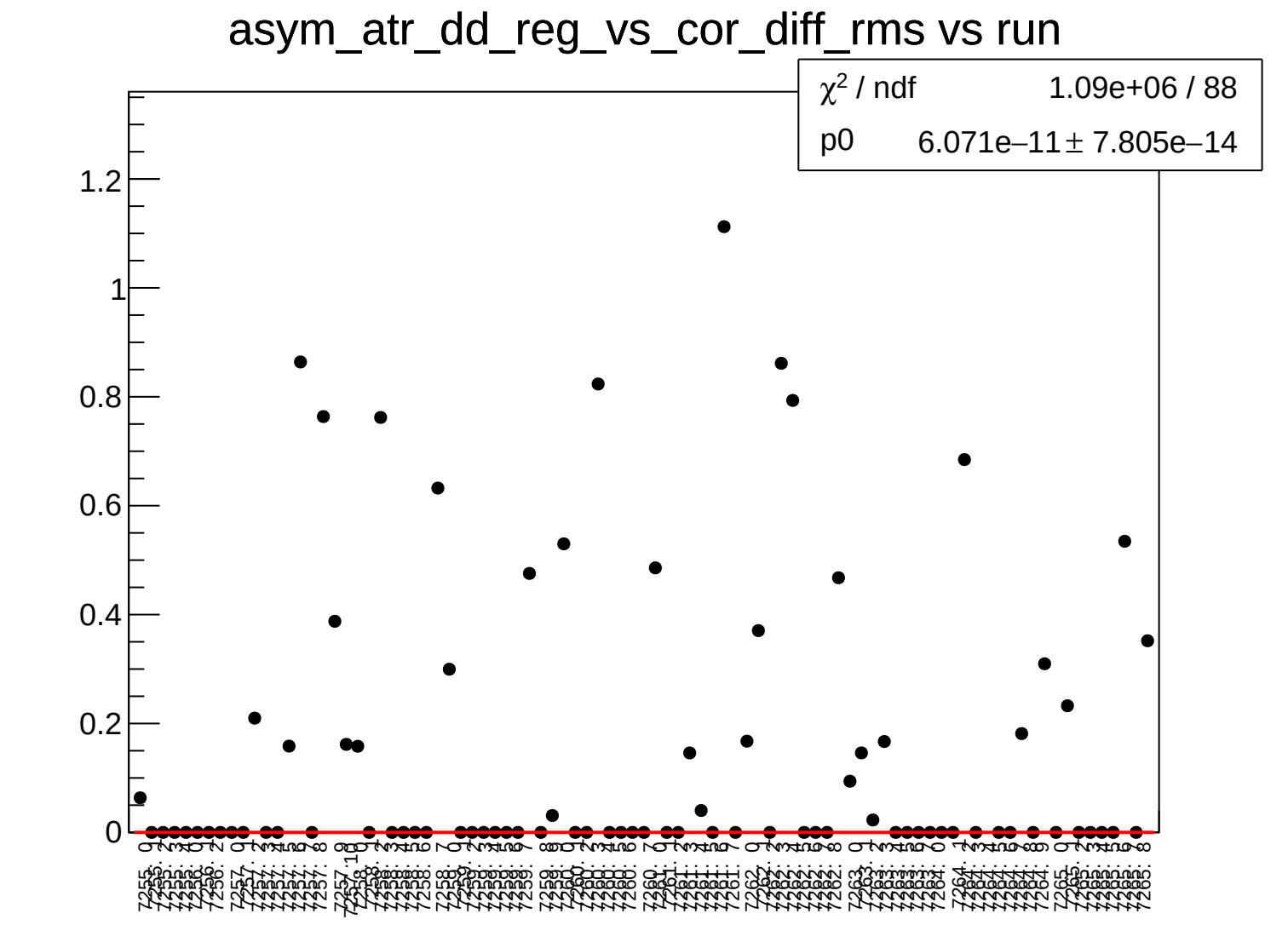

asym_atr_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 8862 / 88
p0 4514 ± 3.477
5400
5200
5000
4800
4600
4400
4200
4000
3800

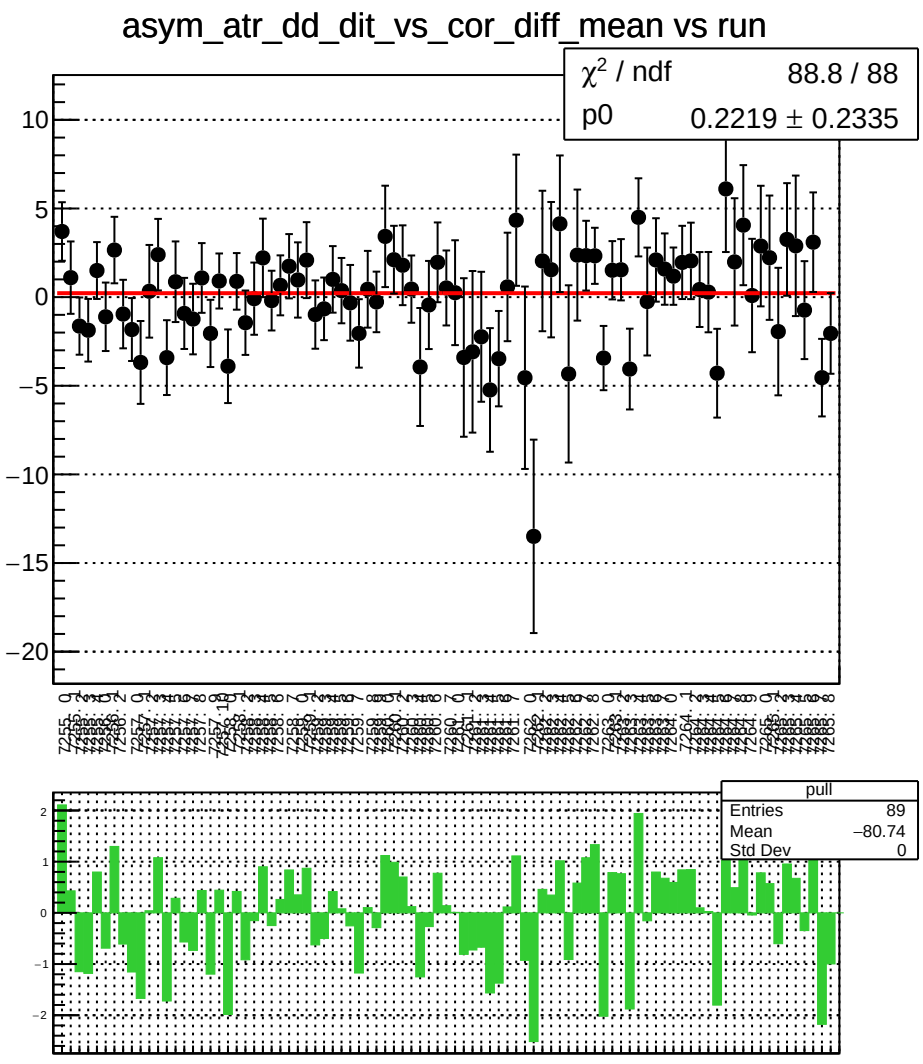

asym_atr_dd_mean vs run
×10^3
χ² / ndf 80.97 / 88
p0 6212 ± 5287
pull
Entries 89
Mean 772.1
Std Dev 0

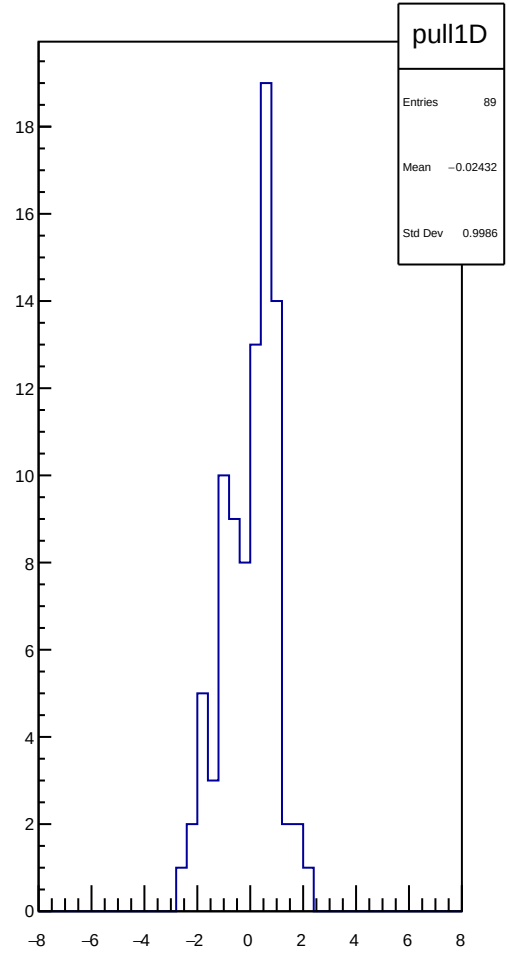

pull1D
Entries 89
Mean −0.006959
Std Dev 0.9538

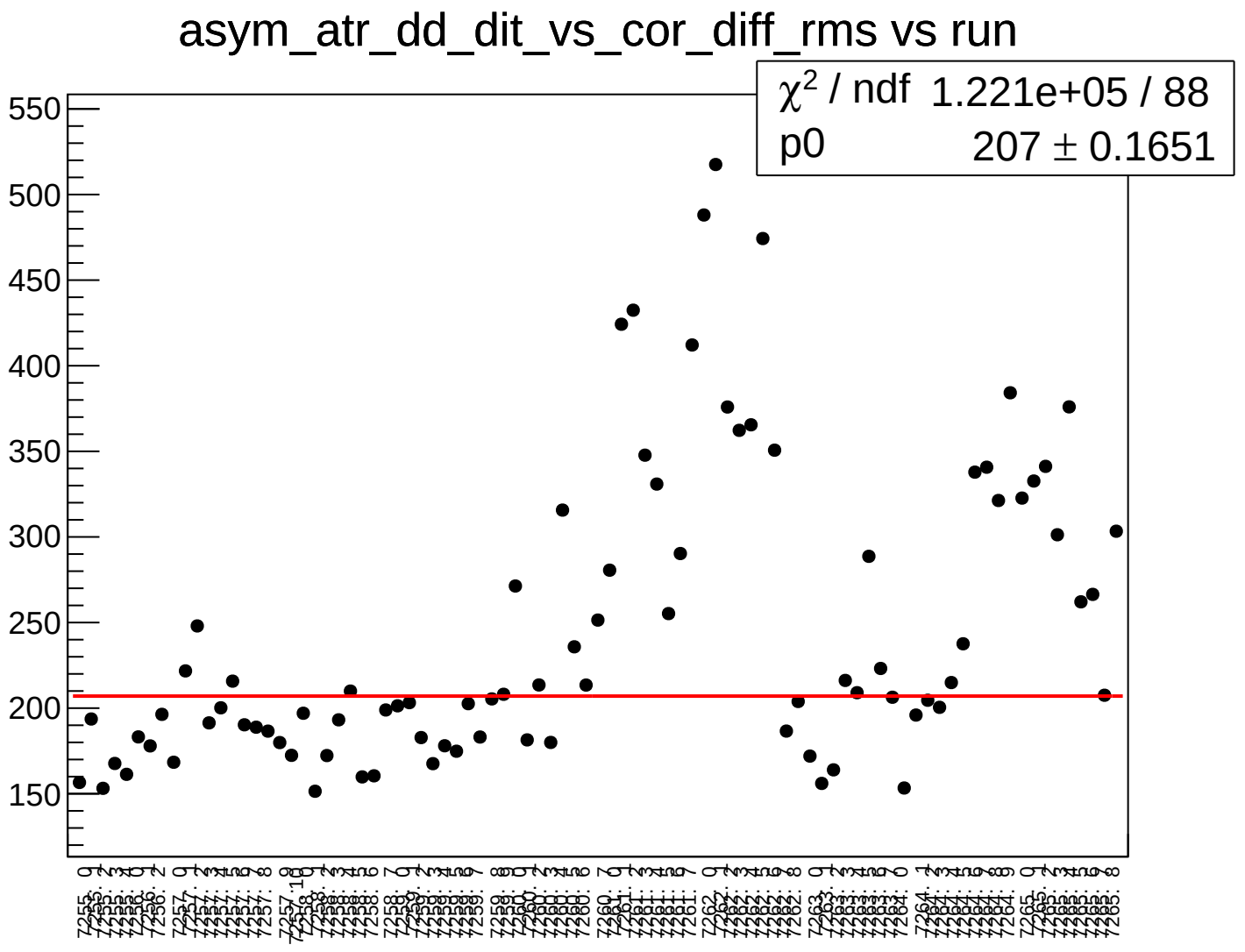

asym_atr_dd_rms vs run
χ^2 / ndf 6377 / 88
p0 4858 ± 3.738
5600
5400
5200
5000
4800
4600
4400
4200

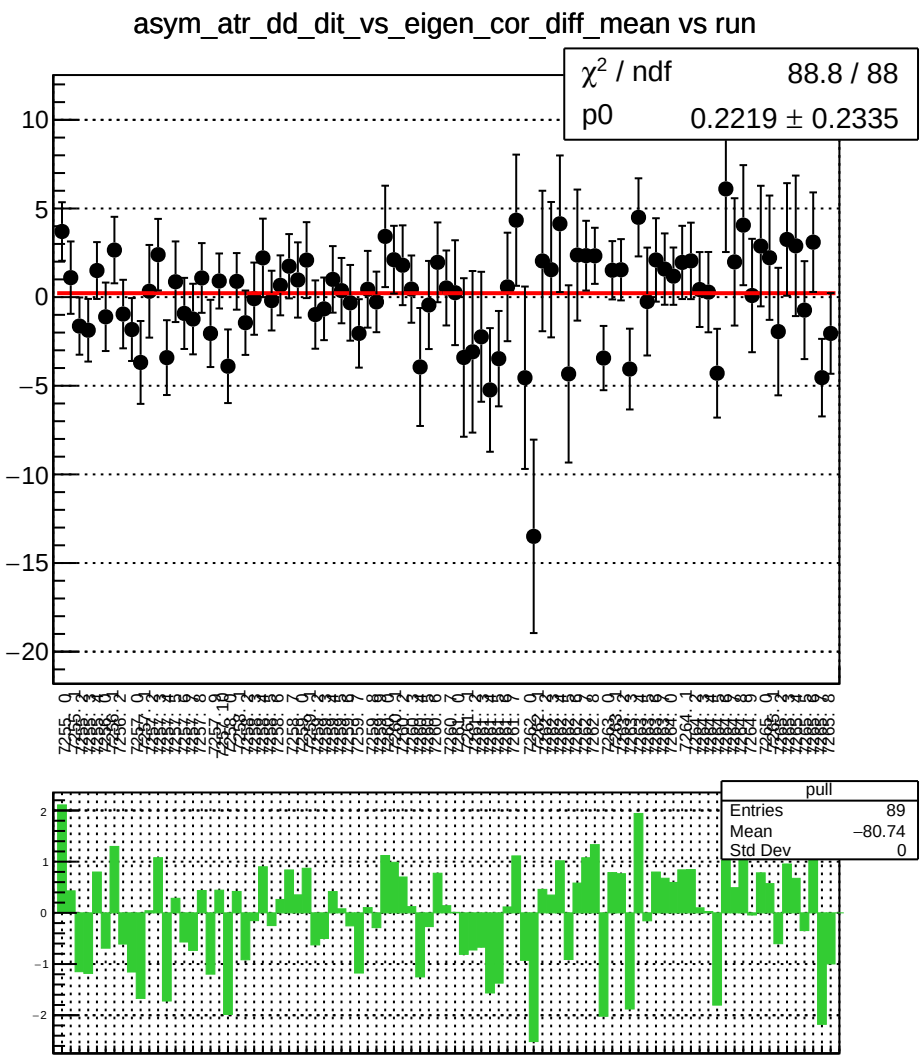

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.59 / 88
p0 −9.508e−14 ± 1.104e−13
pull
Entries 89
Mean 18.67
Std Dev 15.62
pull1D
Entries 89
Mean −0.1174
Std Dev 1.019

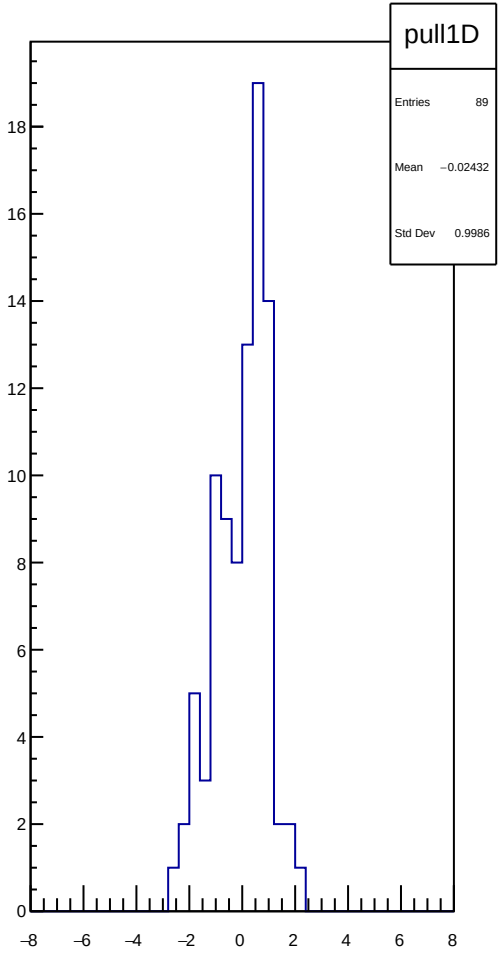

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.09e+06 / 88
p0 6.071e−11 ± 7.805e−14
1.2
1
0.8
0.6
0.4
0.2
0

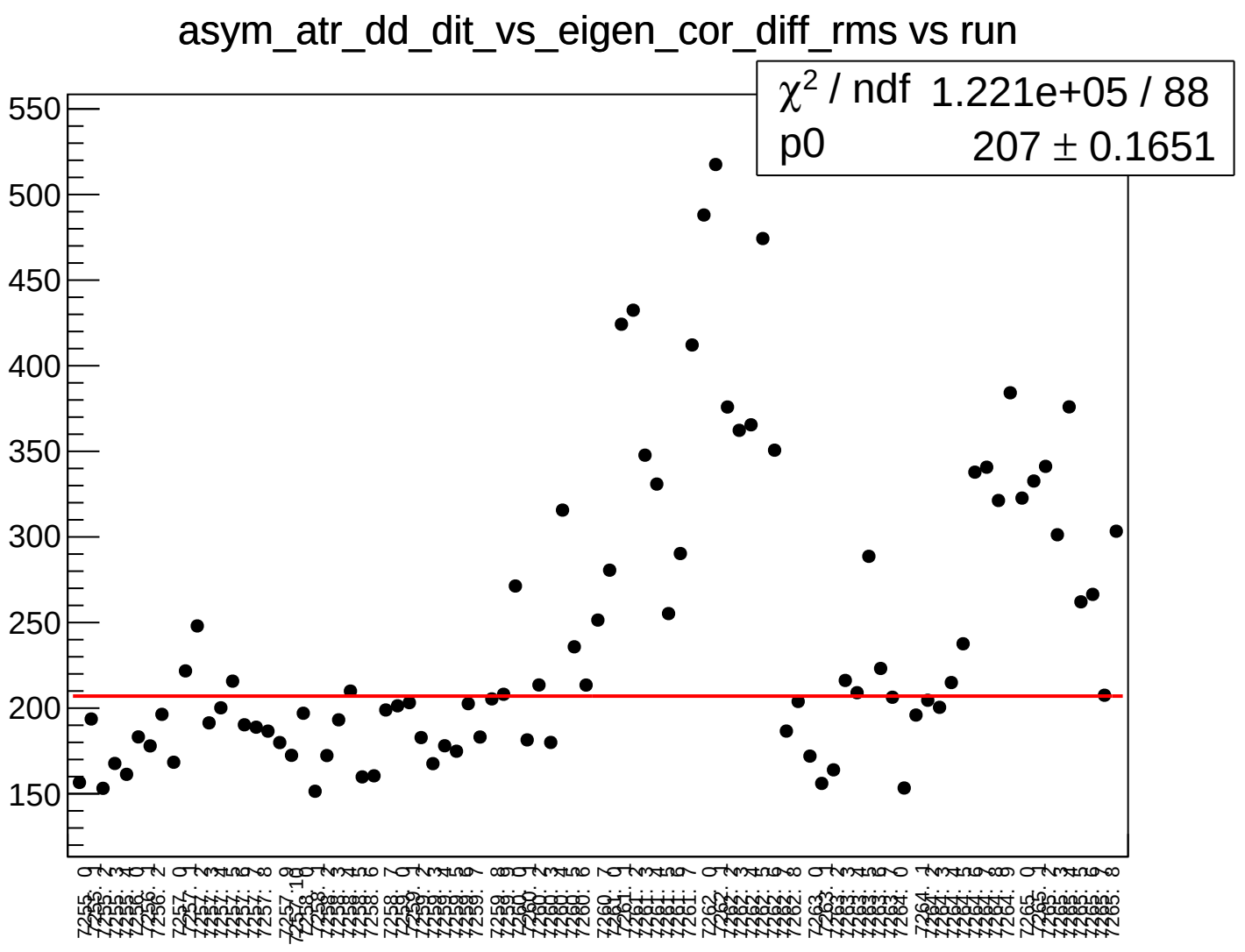

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.8 / 88
p0 0.2219 ± 0.2335
pull
Entries 89
Mean −80.74
Std Dev 0

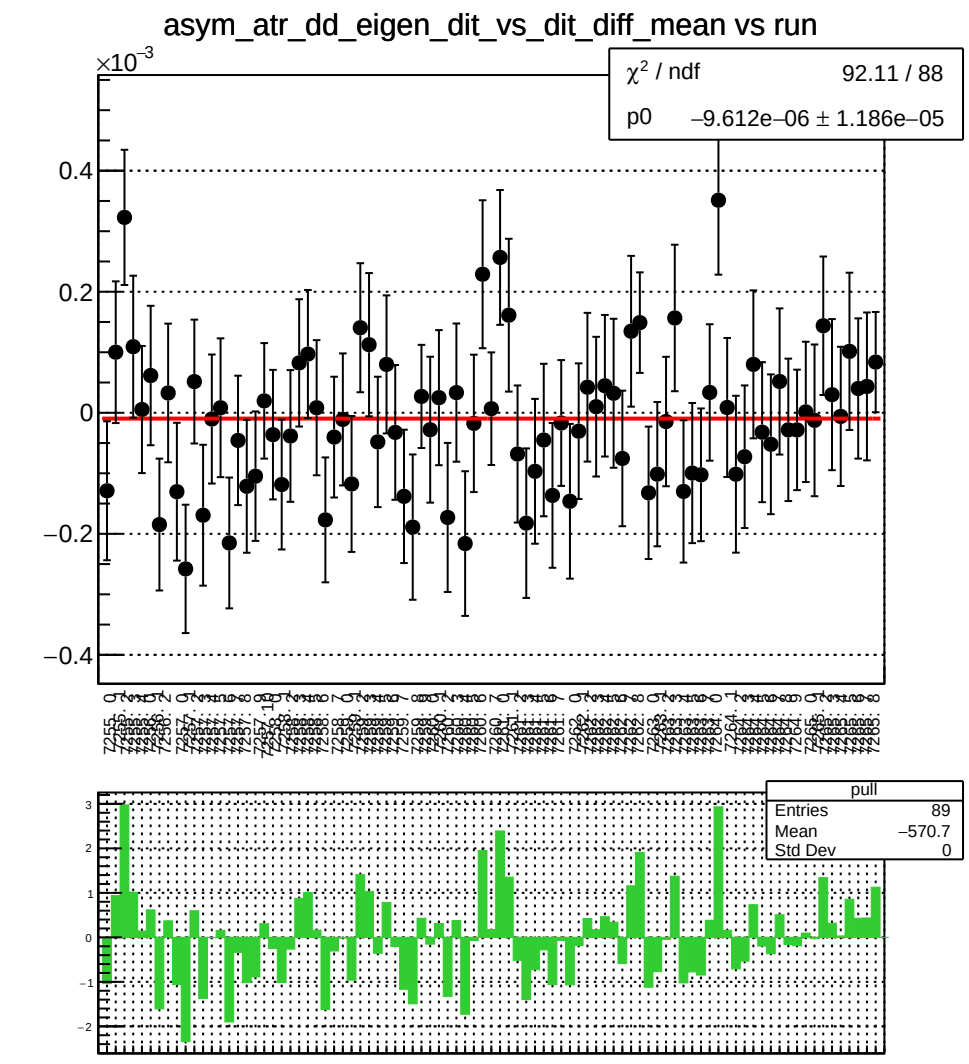

pull1D
Entries 89
Mean −0.02432
Std Dev 0.9986

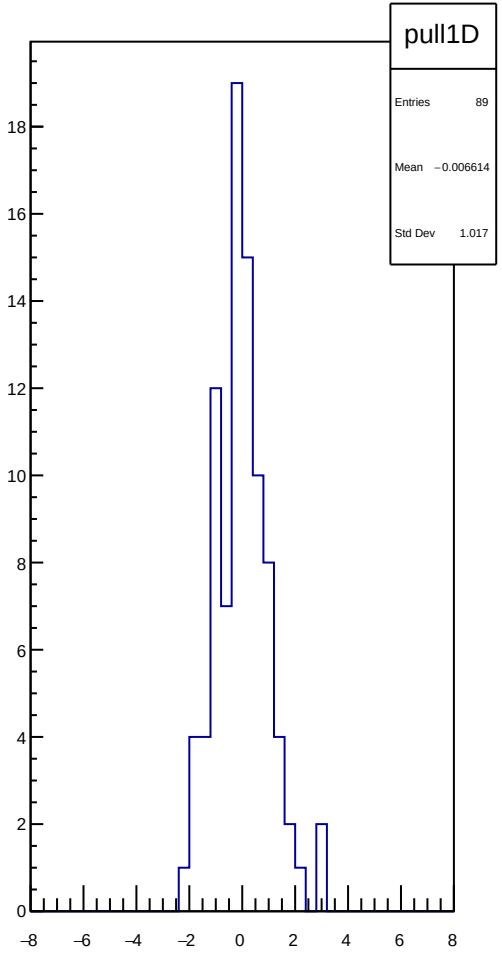

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.221e+05 / 88
p0 207 ± 0.1651
550
500
450
400
350
300
250
200
150

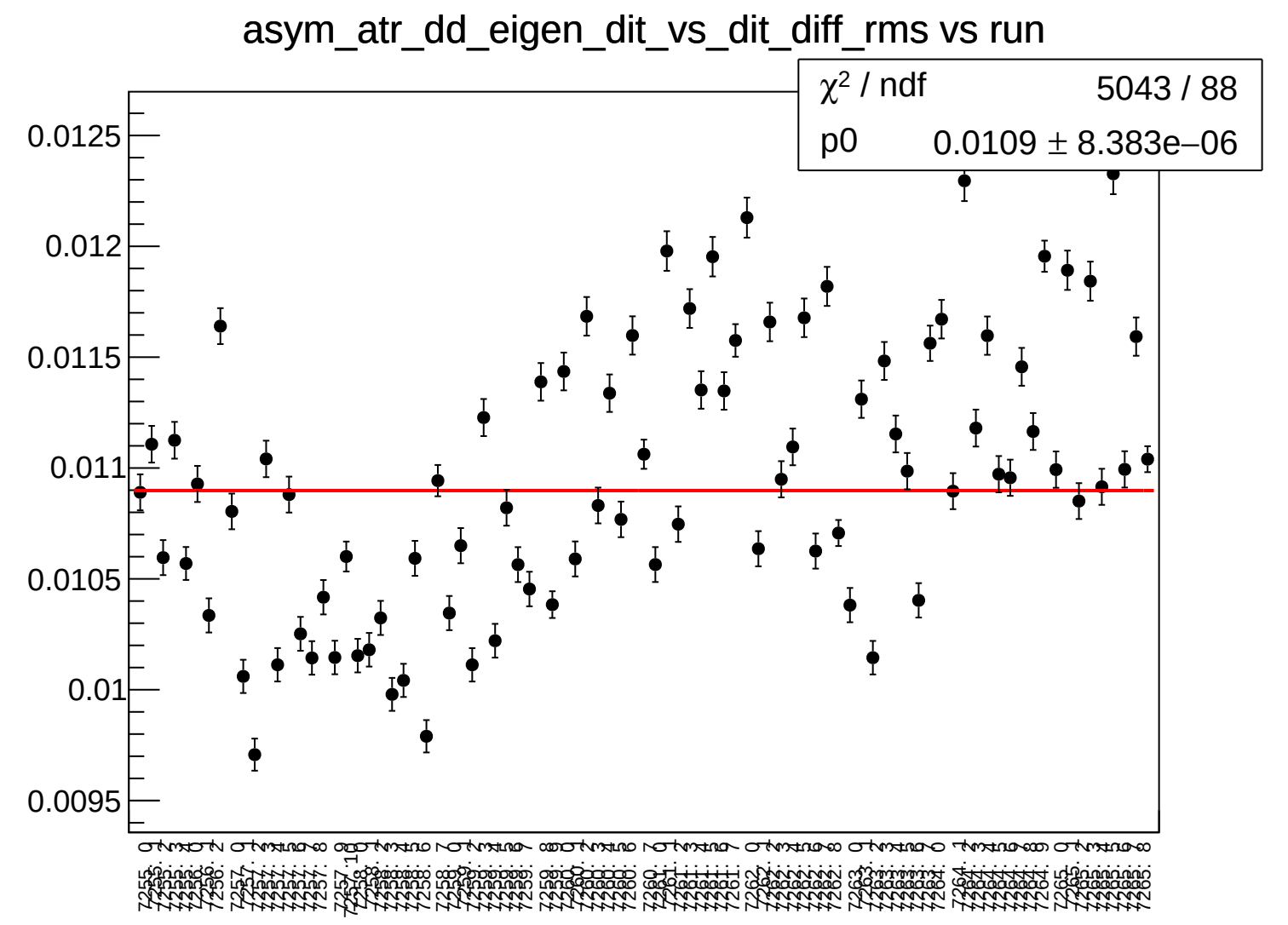

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.8 / 88
p0 0.2219 ± 0.2335
pull
Entries 89
Mean −80.74
Std Dev 0

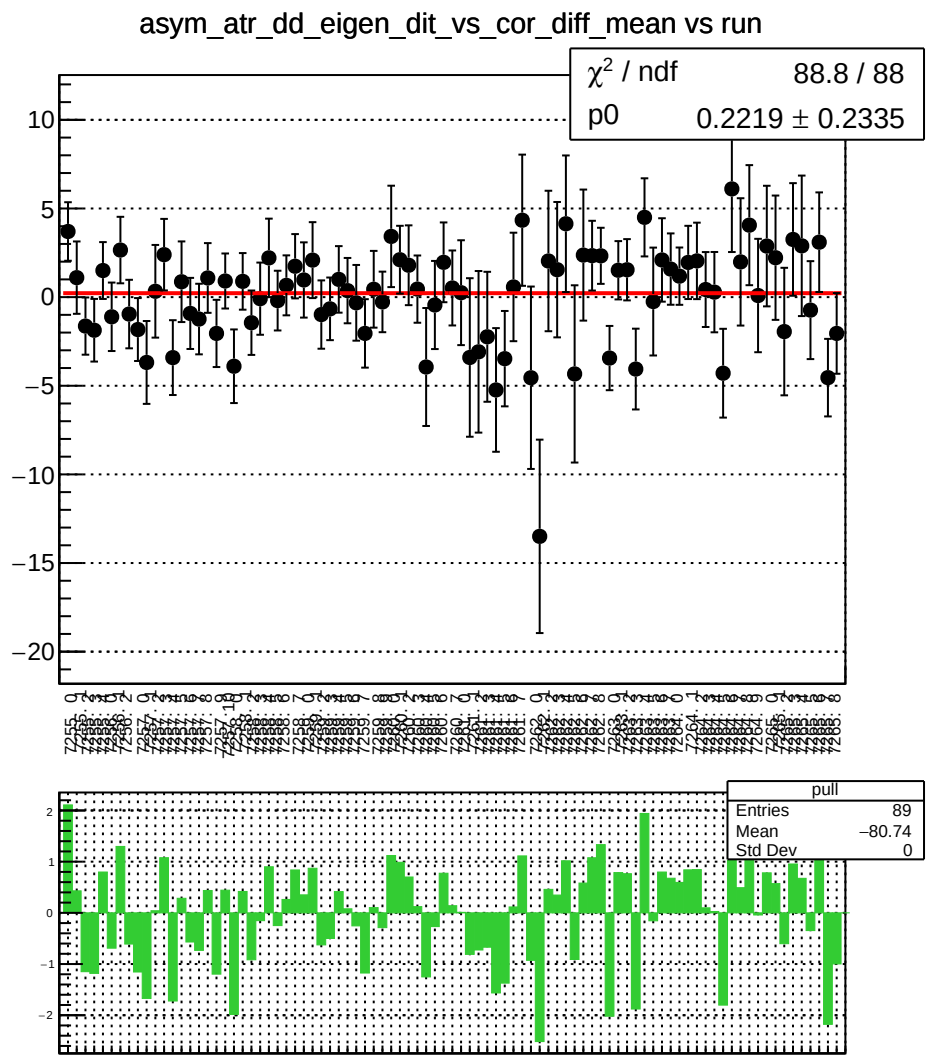

pull1D
Entries 89
Mean −0.02432
Std Dev 0.9986

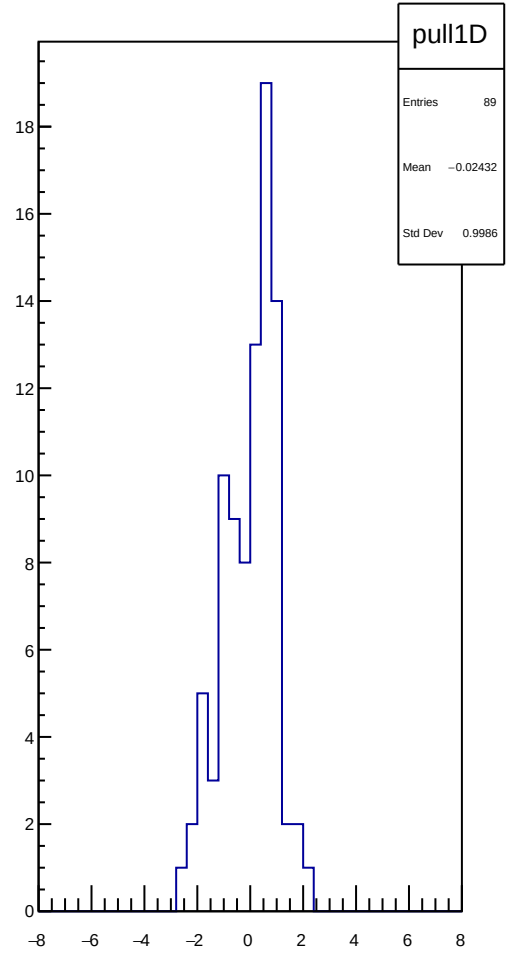

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.221e+05 / 88
p0 207 ± 0.1651
550
500
450
400
350
300
250
200
150

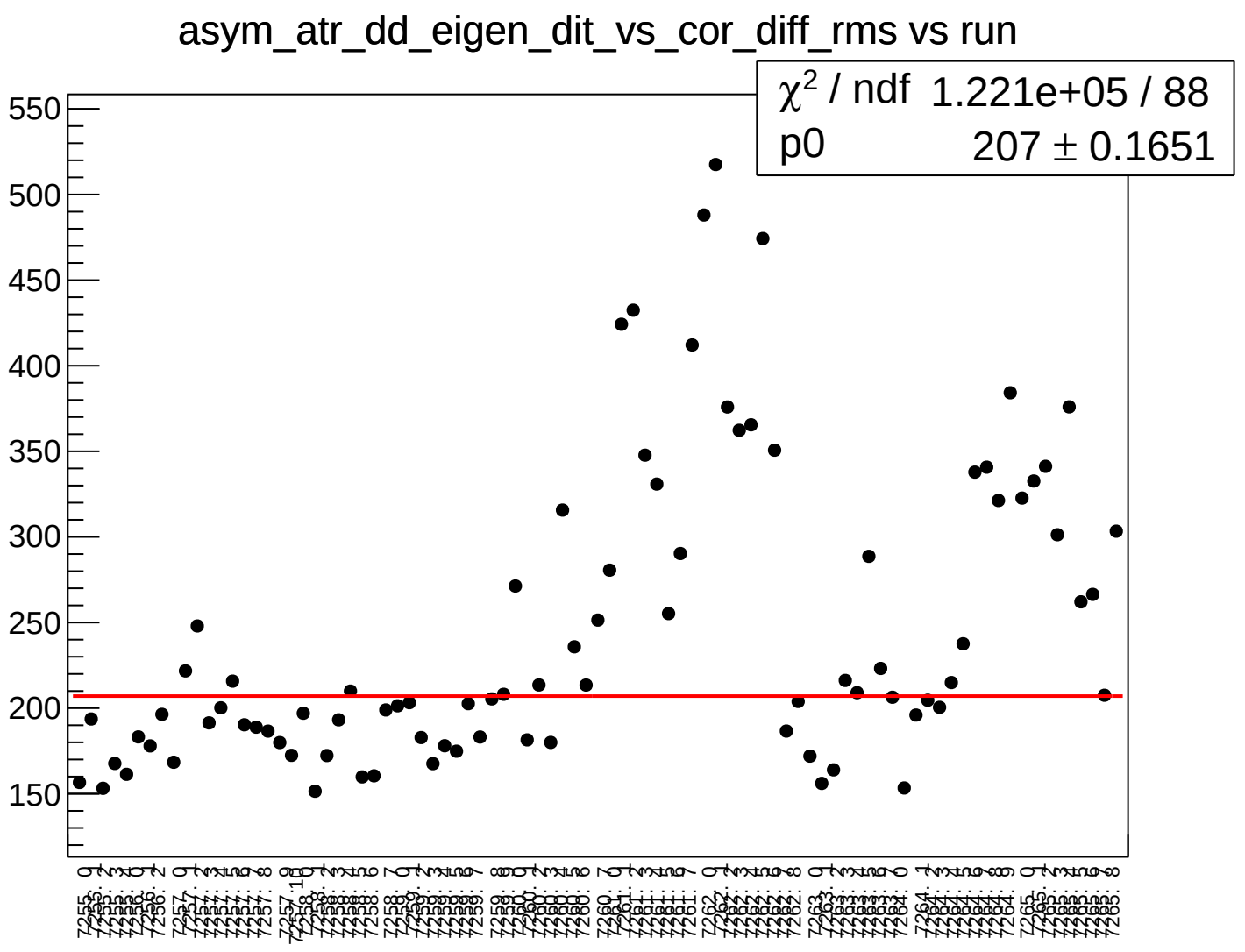

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.11 / 88
p0 −9.612e−06 ± 1.186e−05
pull
Entries 89
Mean −570.7
Std Dev 0

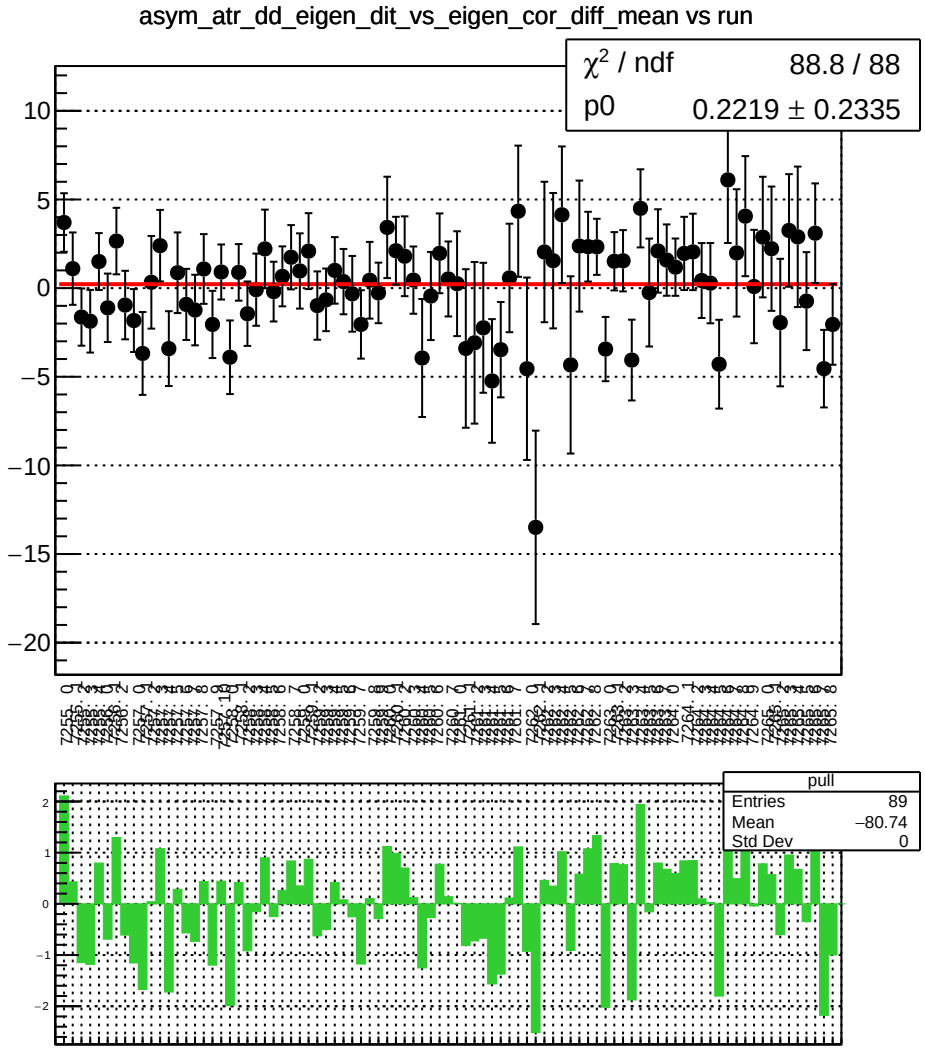

pull1D
Entries 89
Mean −0.006614
Std Dev 1.017

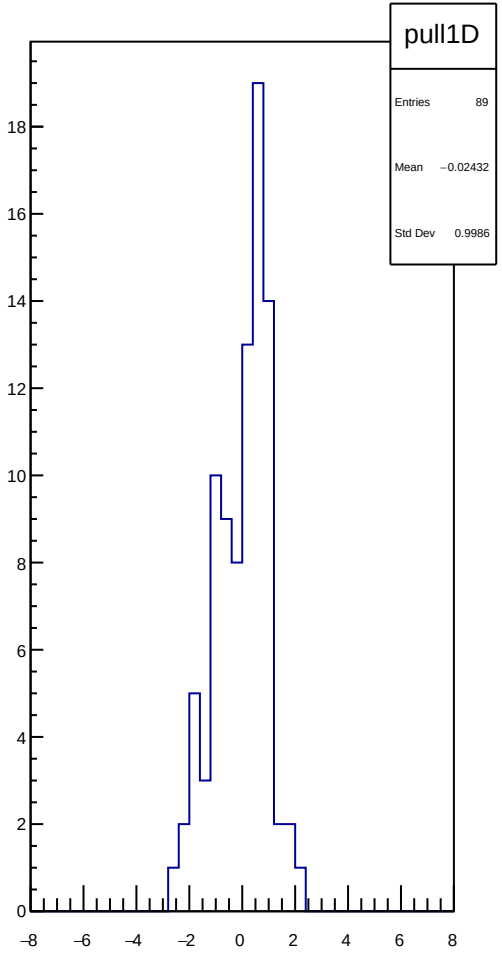

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5043 / 88
p0 0.0109 ± 8.383e−06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095

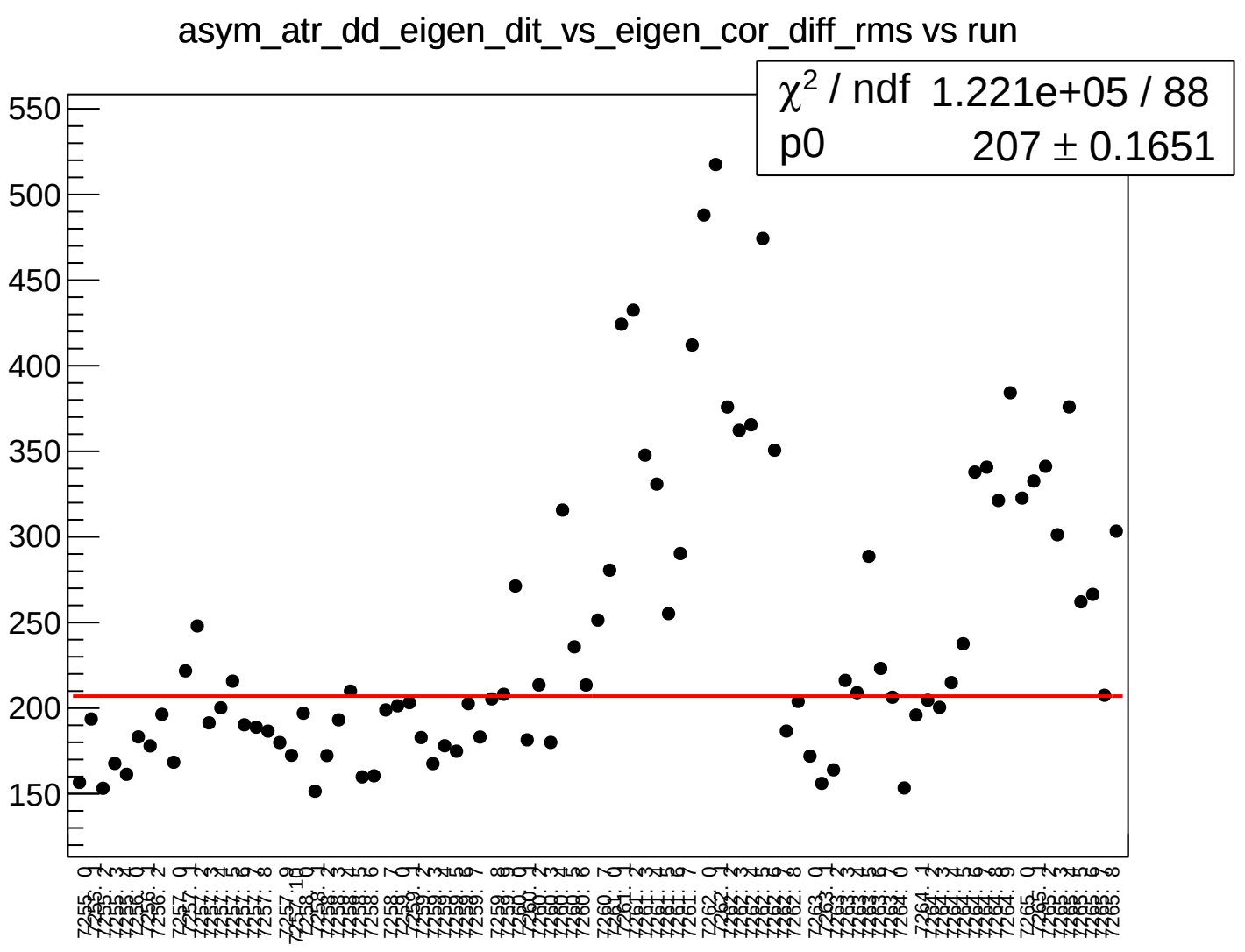

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.8 / 88
p0 0.2219 ± 0.2335
pull
Entries 89
Mean −80.74
Std Dev 0

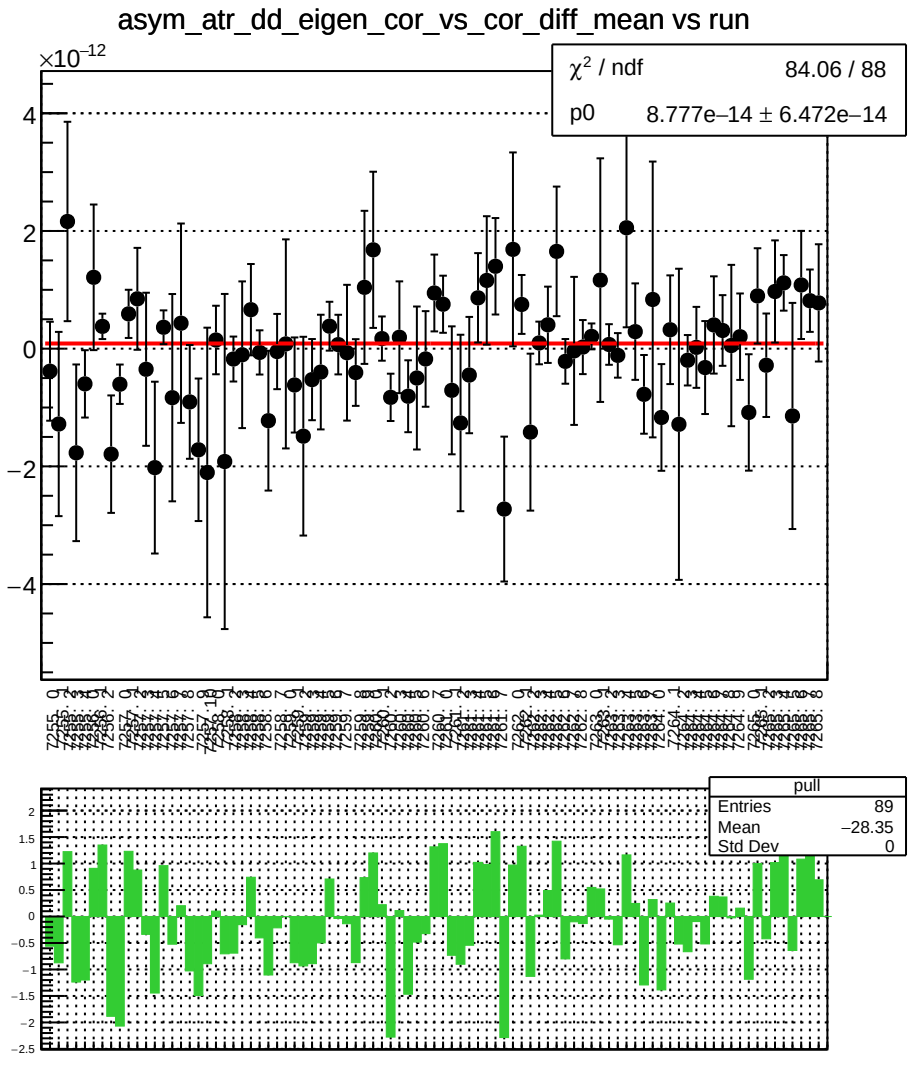

pull1D
Entries 89
Mean −0.02432
Std Dev 0.9986

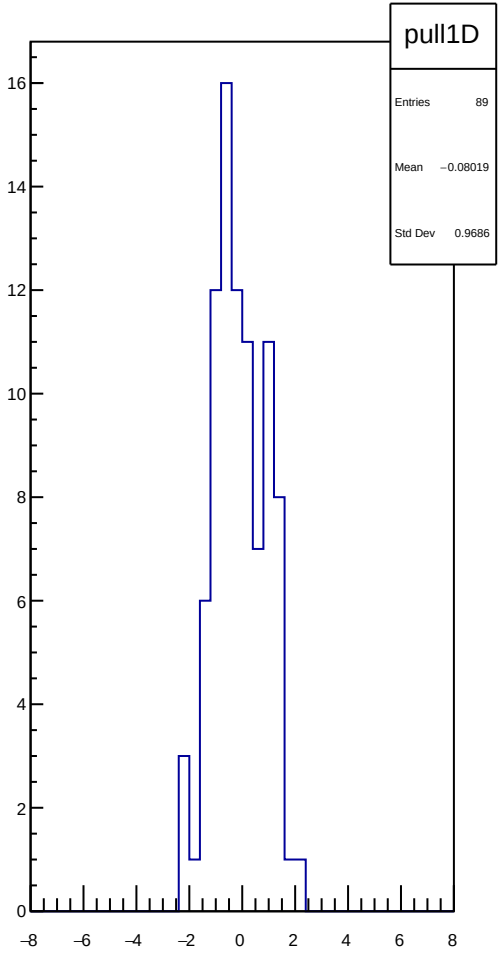

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.221e+05 / 88
p0 207 ± 0.1651
550
500
450
400
350
300
250
200
150

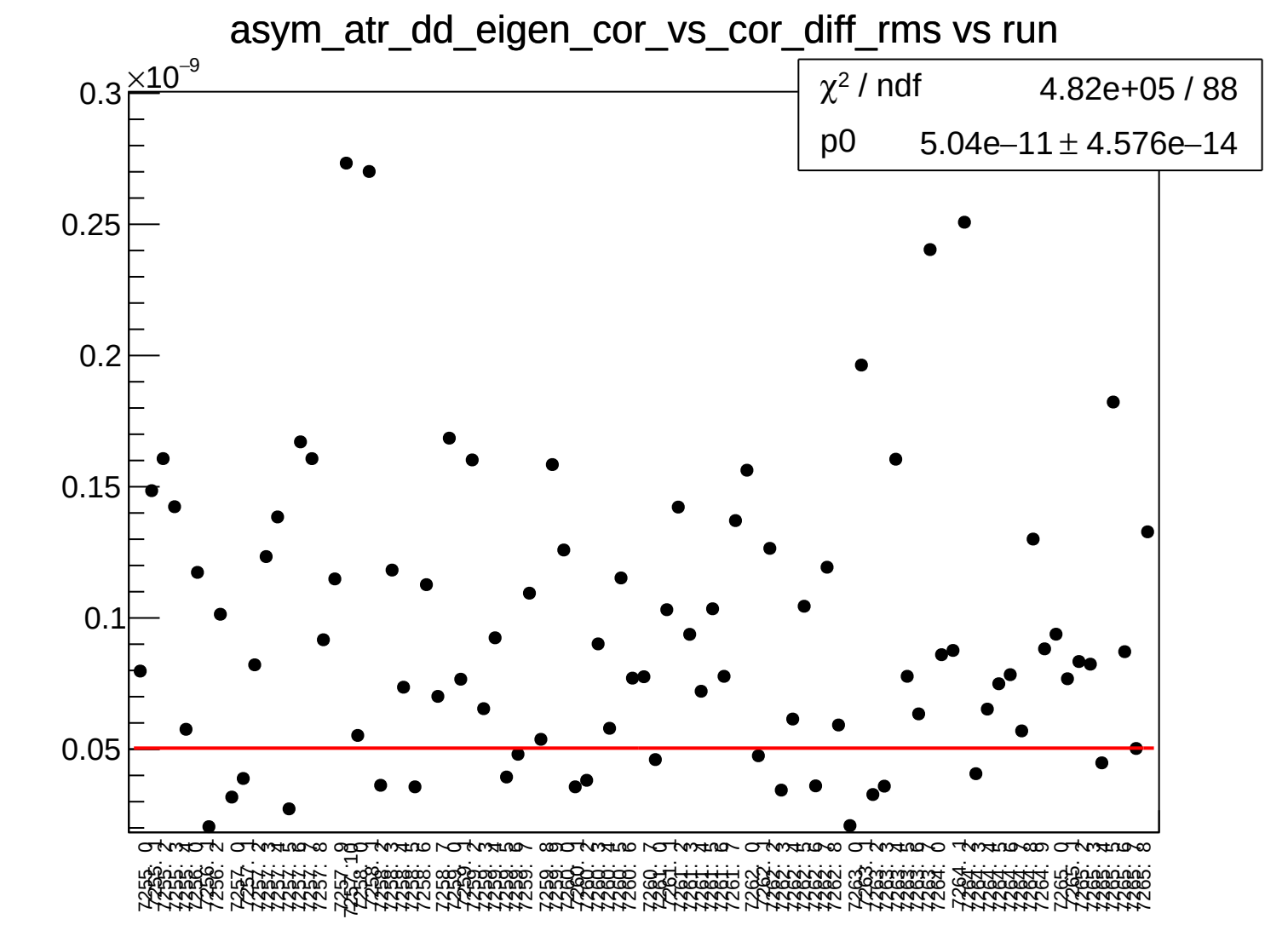

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.8 / 88
p0 0.2219 ± 0.2335
pull
Entries 89
Mean −80.74
Std Dev 0

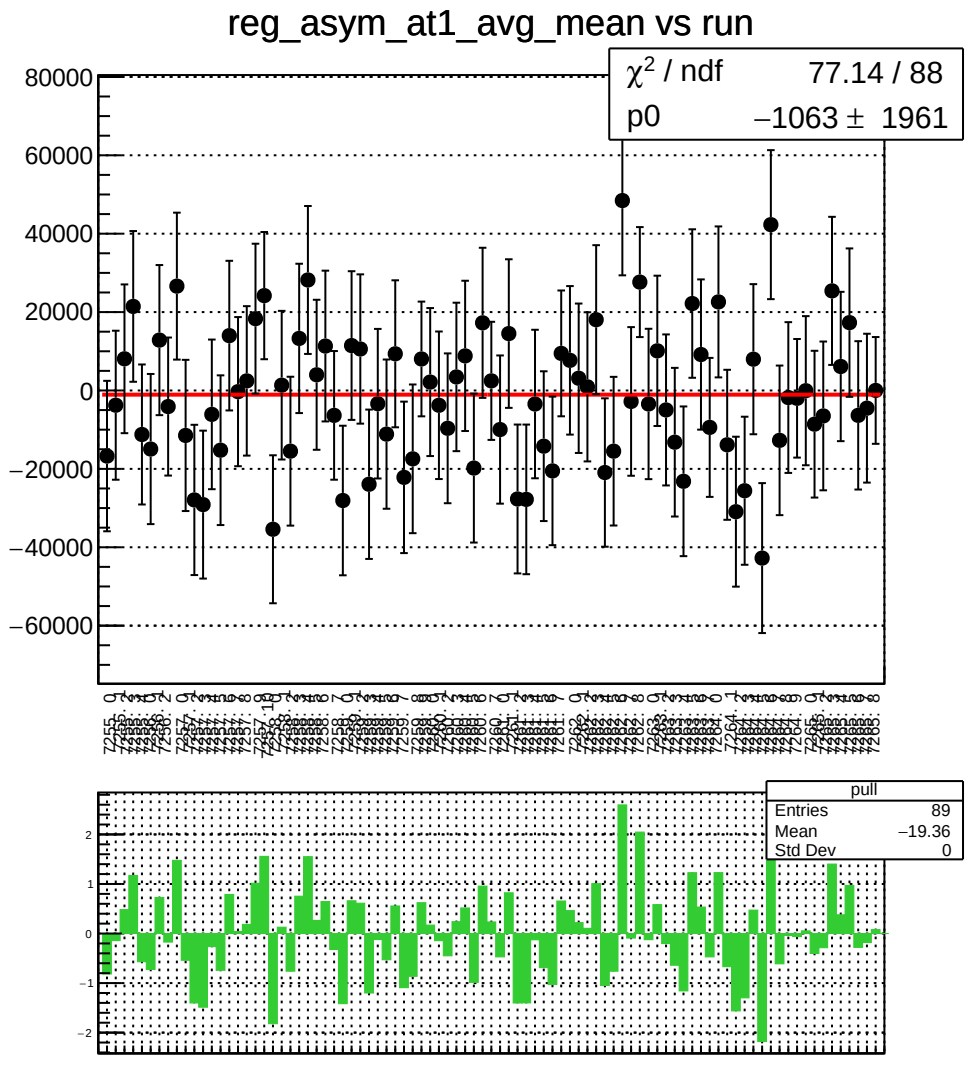

pull1D
Entries 89
Mean −0.02432
Std Dev 0.9986

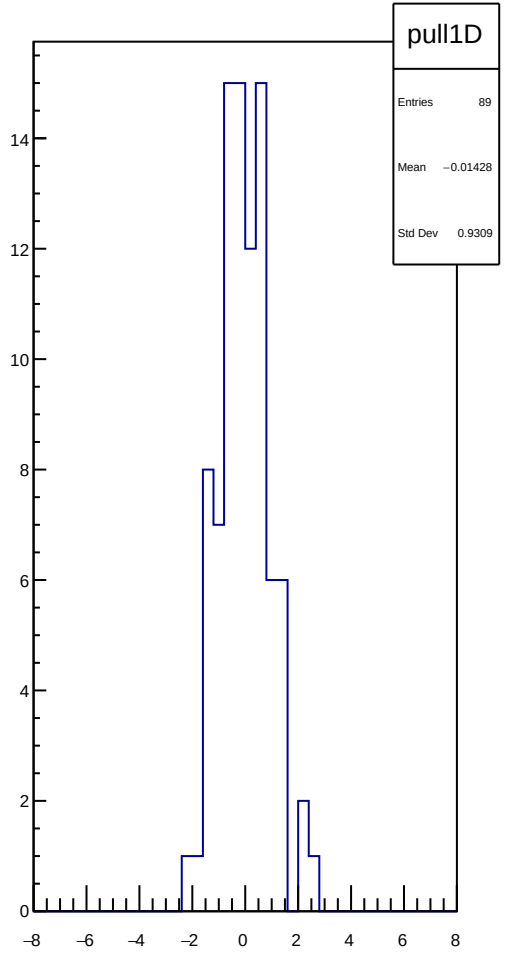

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.221e+05 / 88
p0 207 ± 0.1651
550
500
450
400
350
300
250
200
150

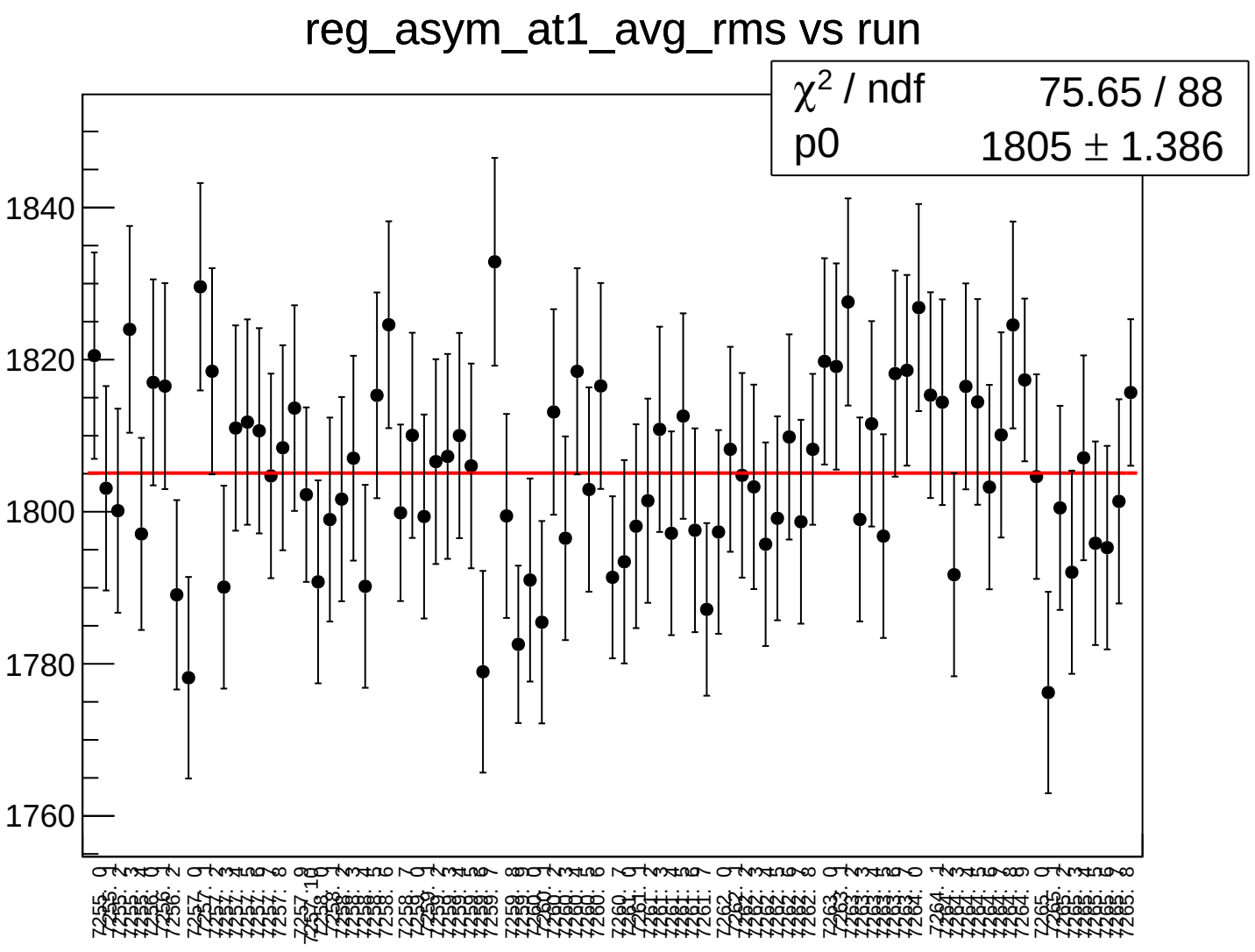

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.06 / 88
p0 8.777e−14 ± 6.472e−14
pull
Entries 89
Mean −28.35
Std Dev 0

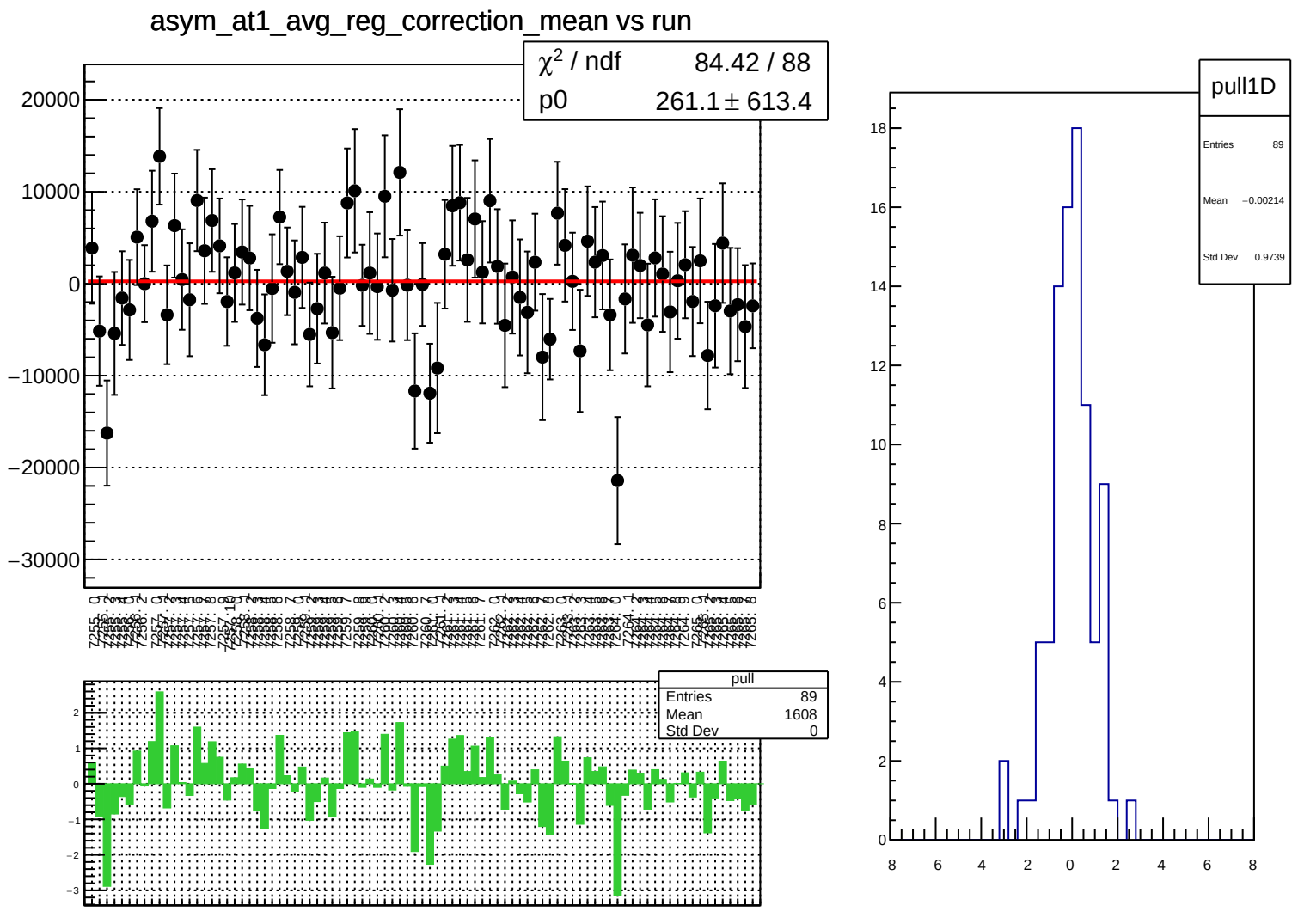

pull1D
Entries 89
Mean −0.08019
Std Dev 0.9686

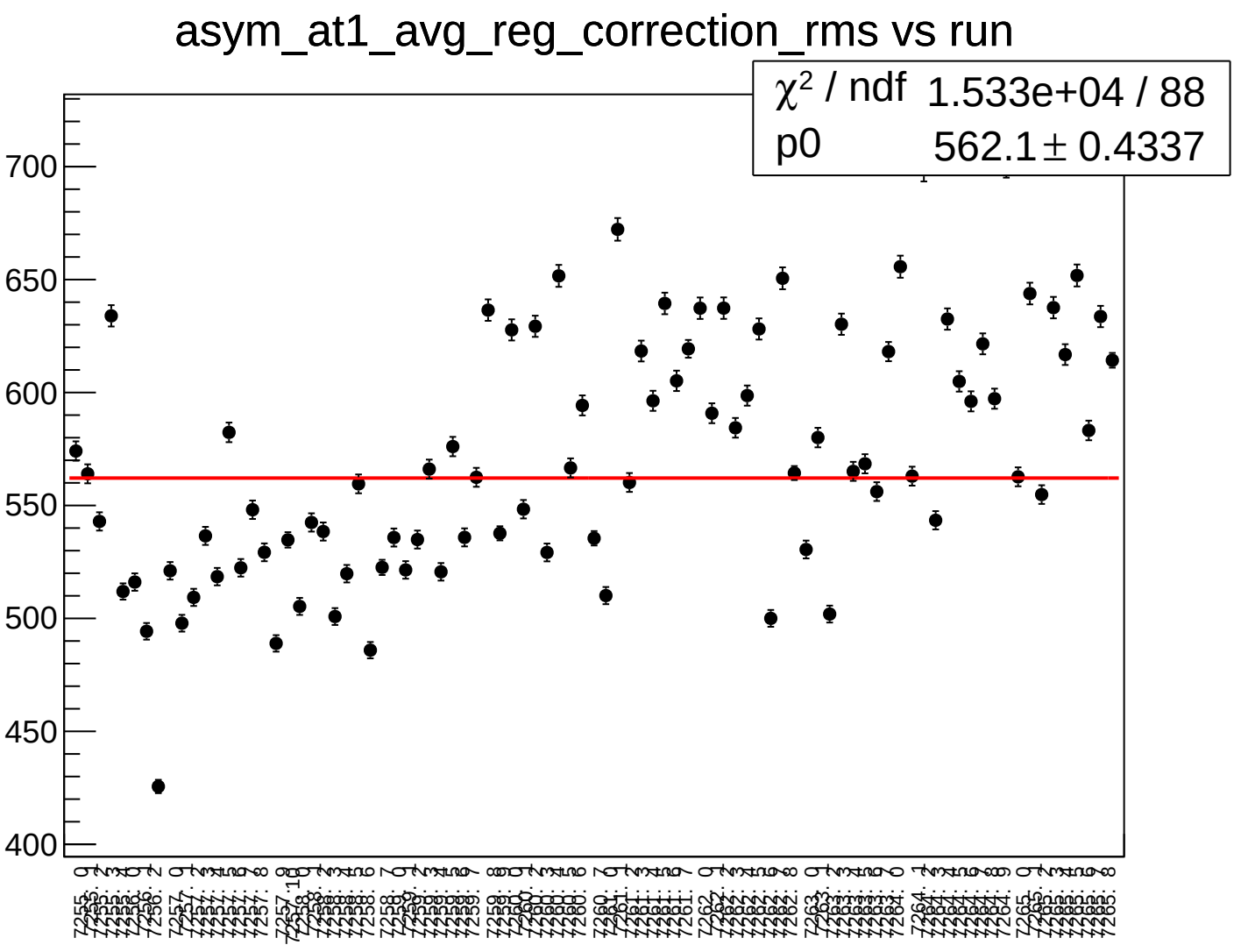

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
χ^2 / ndf 4.82e+05 / 88
p0 5.04e−11 ± 4.576e−14
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05

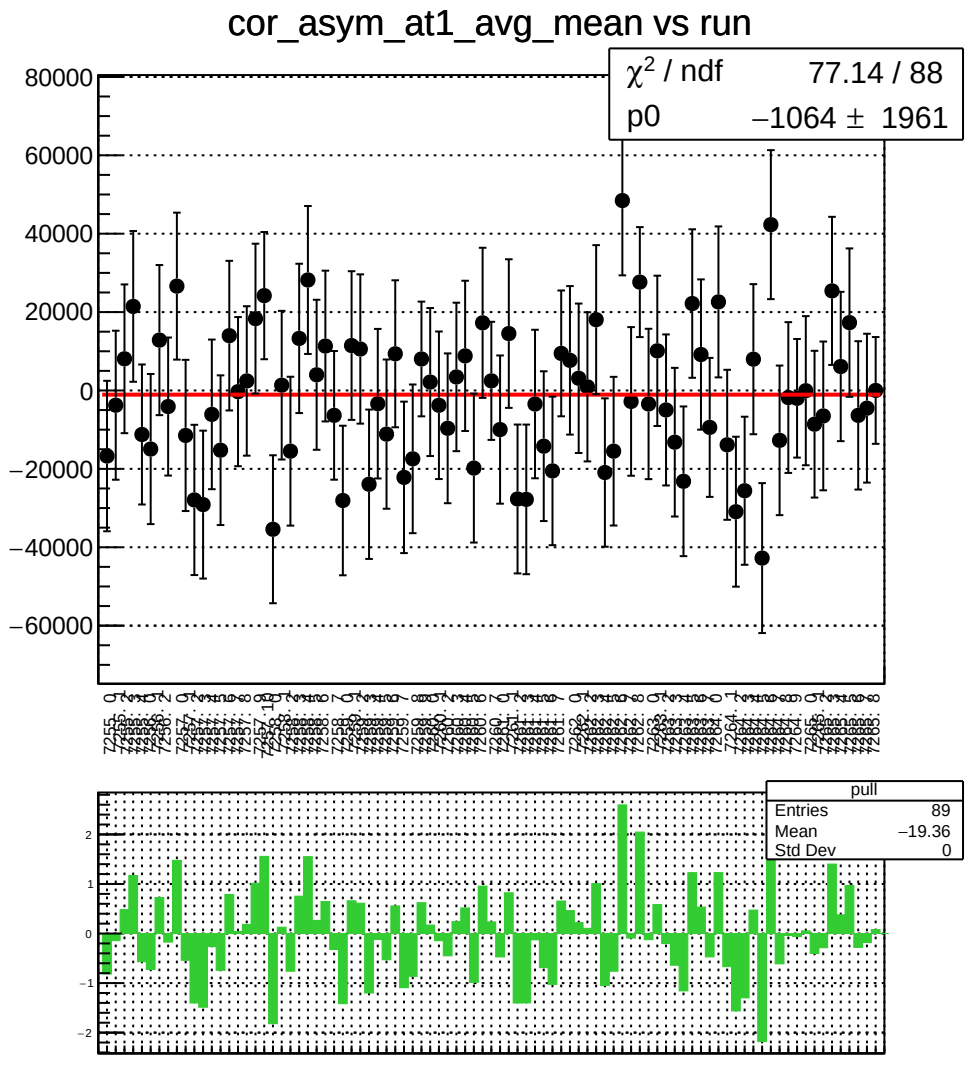

reg_asym_at1_avg_mean vs run
χ² / ndf 77.14 / 88
p0 −1063 ± 1961
pull
Entries 89
Mean −19.36
Std Dev 0

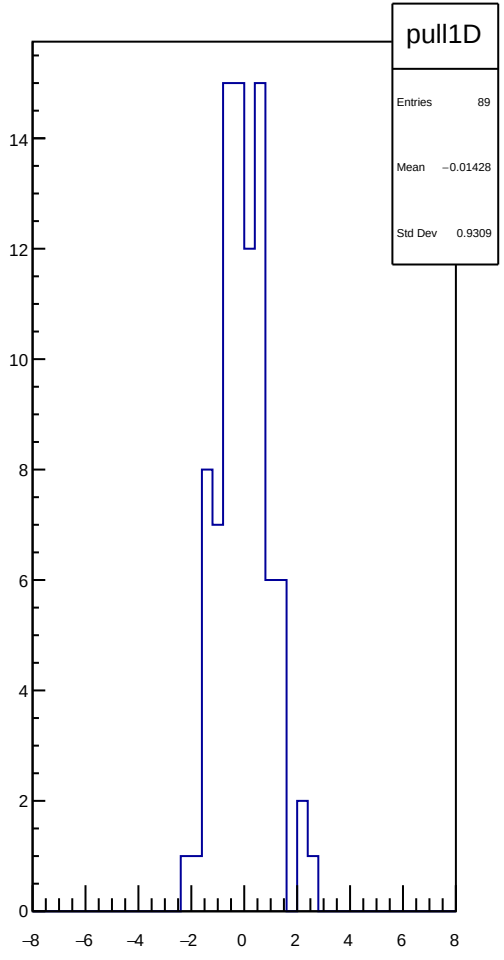

pull1D
Entries 89
Mean −0.01428
Std Dev 0.9309

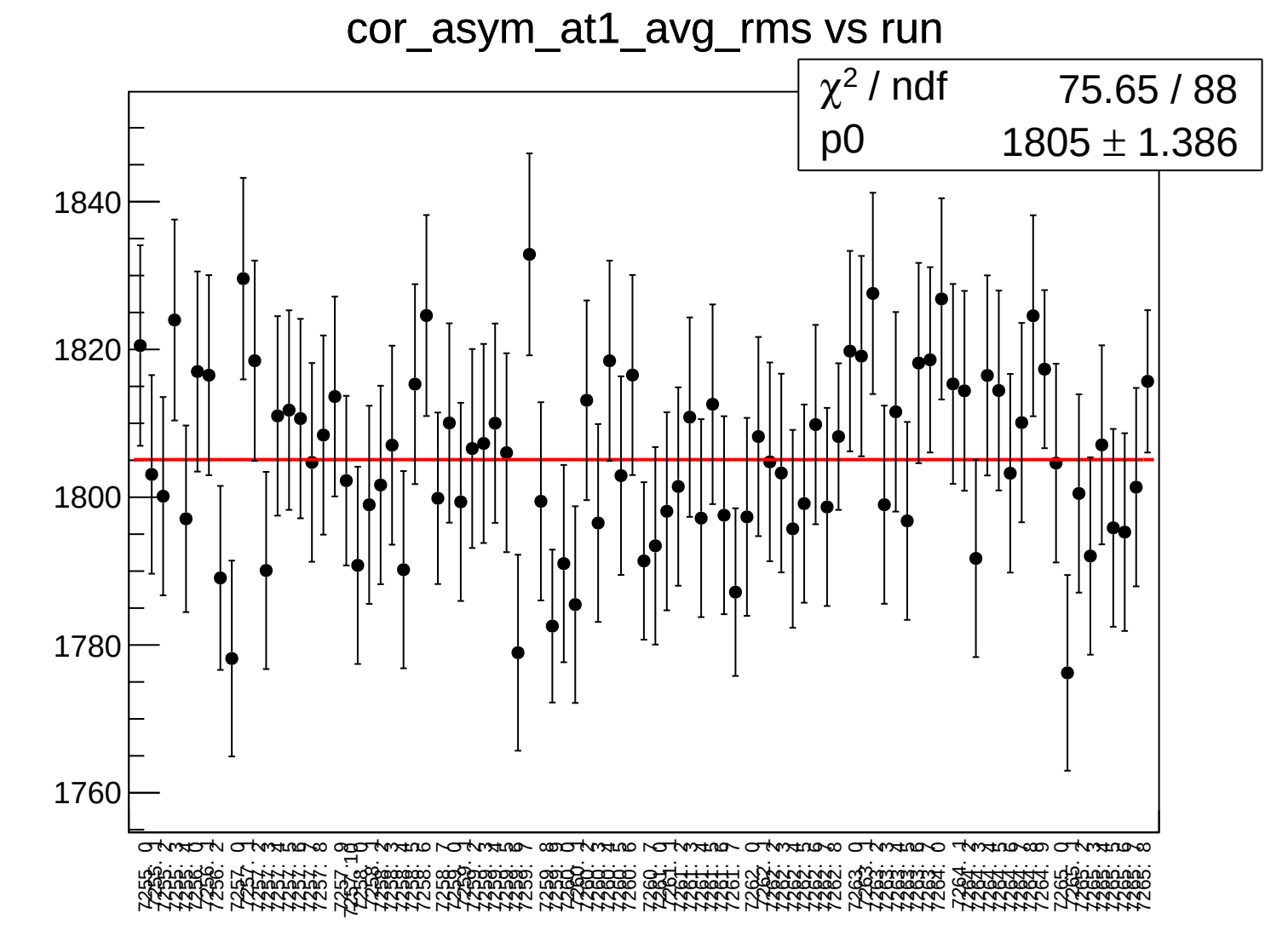

reg_asym_at1_avg_rms vs run
χ^2 / ndf 75.65 / 88
p0 1805 ± 1.386
1840
1820
1800
1780
1760

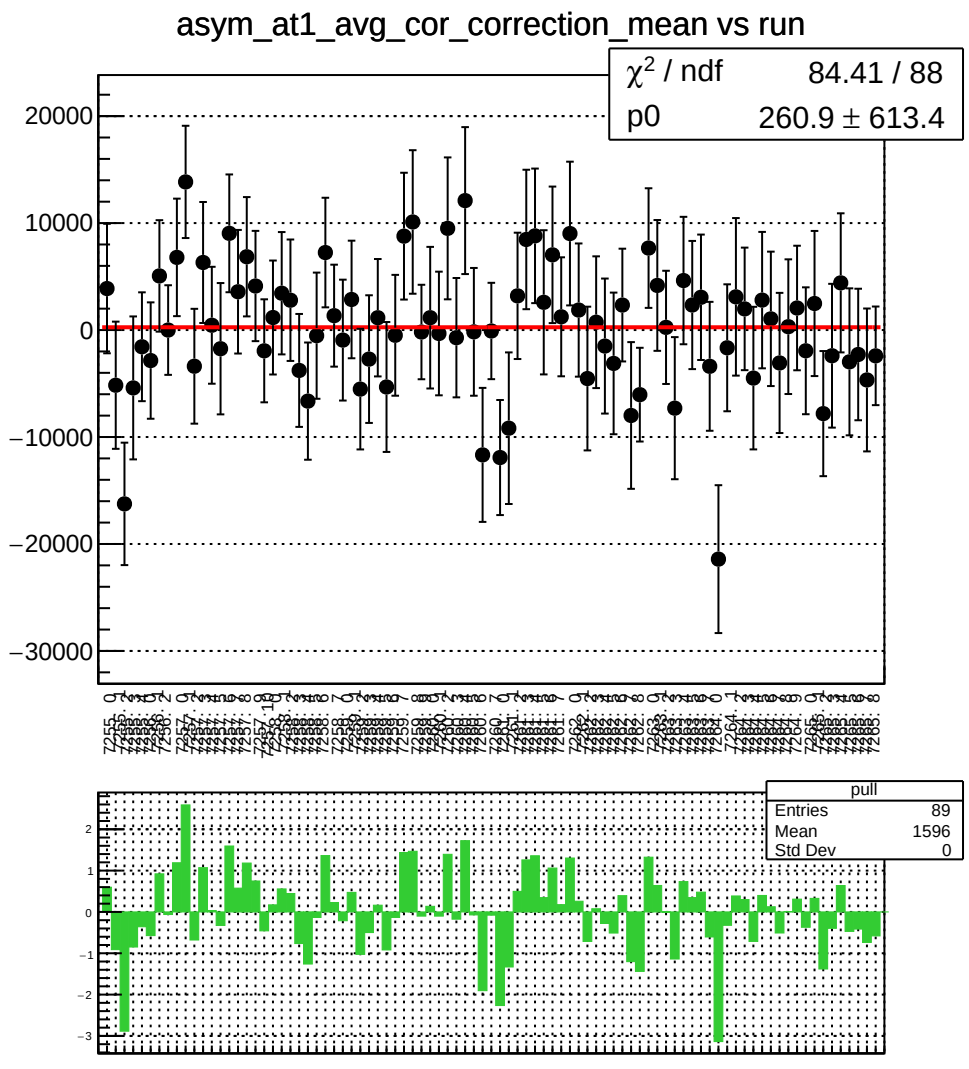

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 84.42 / 88
p0 261.1 ± 613.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1608
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.00214
Std Dev 0.9739
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

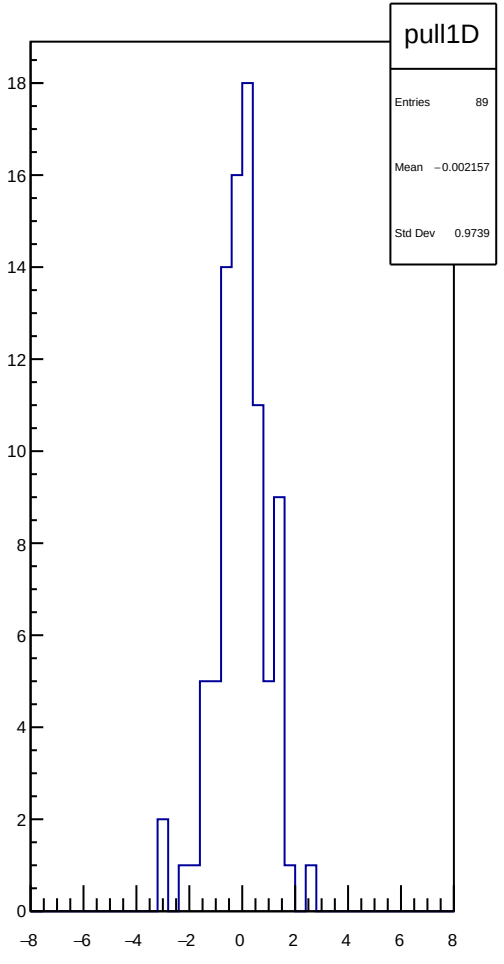

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.533e+04 / 88
p0 562.1 ± 0.4337
700
650
600
550
500
450
400

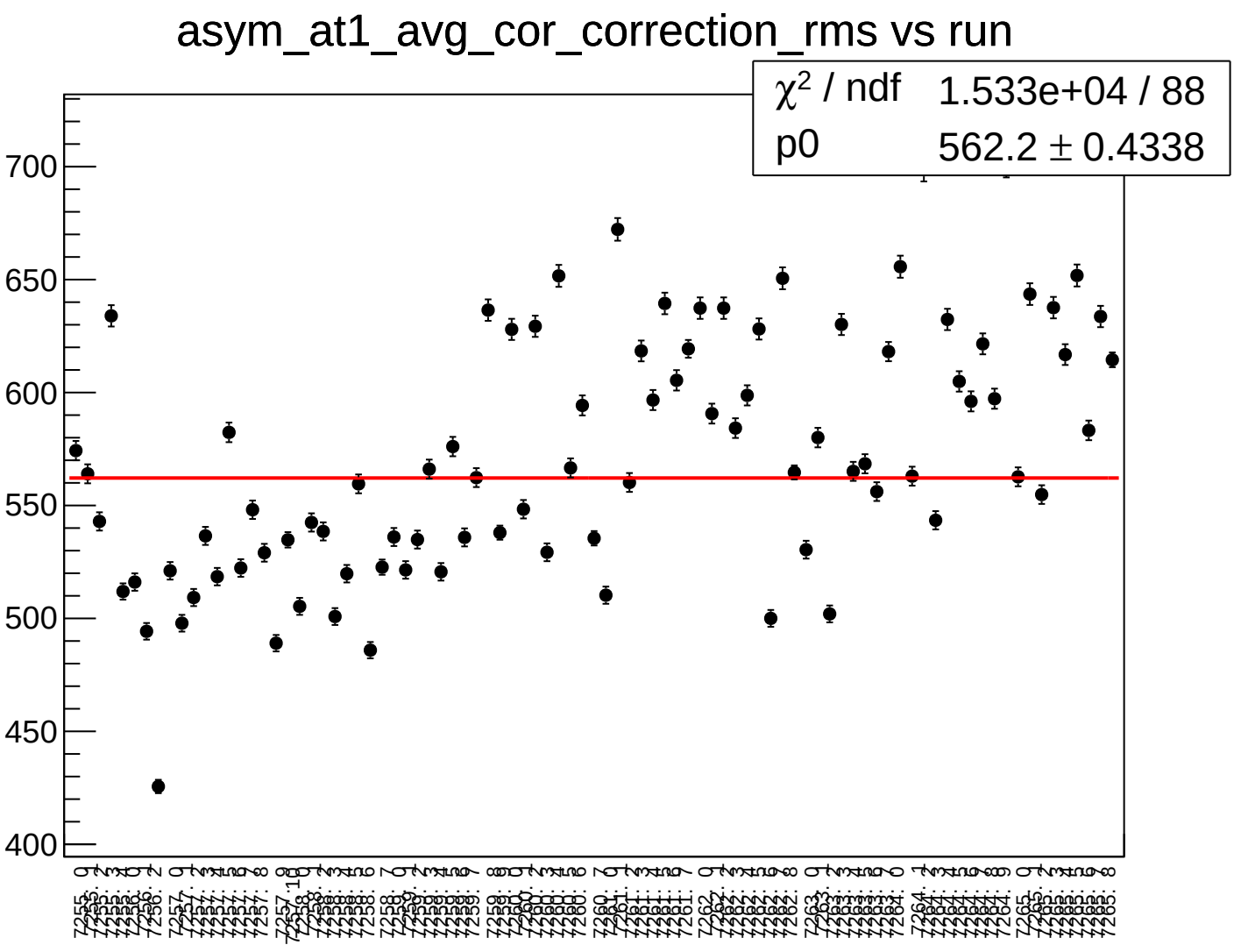

cor_asym_at1_avg_mean vs run
χ² / ndf 77.14 / 88
p0 −1064 ± 1961
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −19.36
Std Dev 0
2
1
0
−1
−2

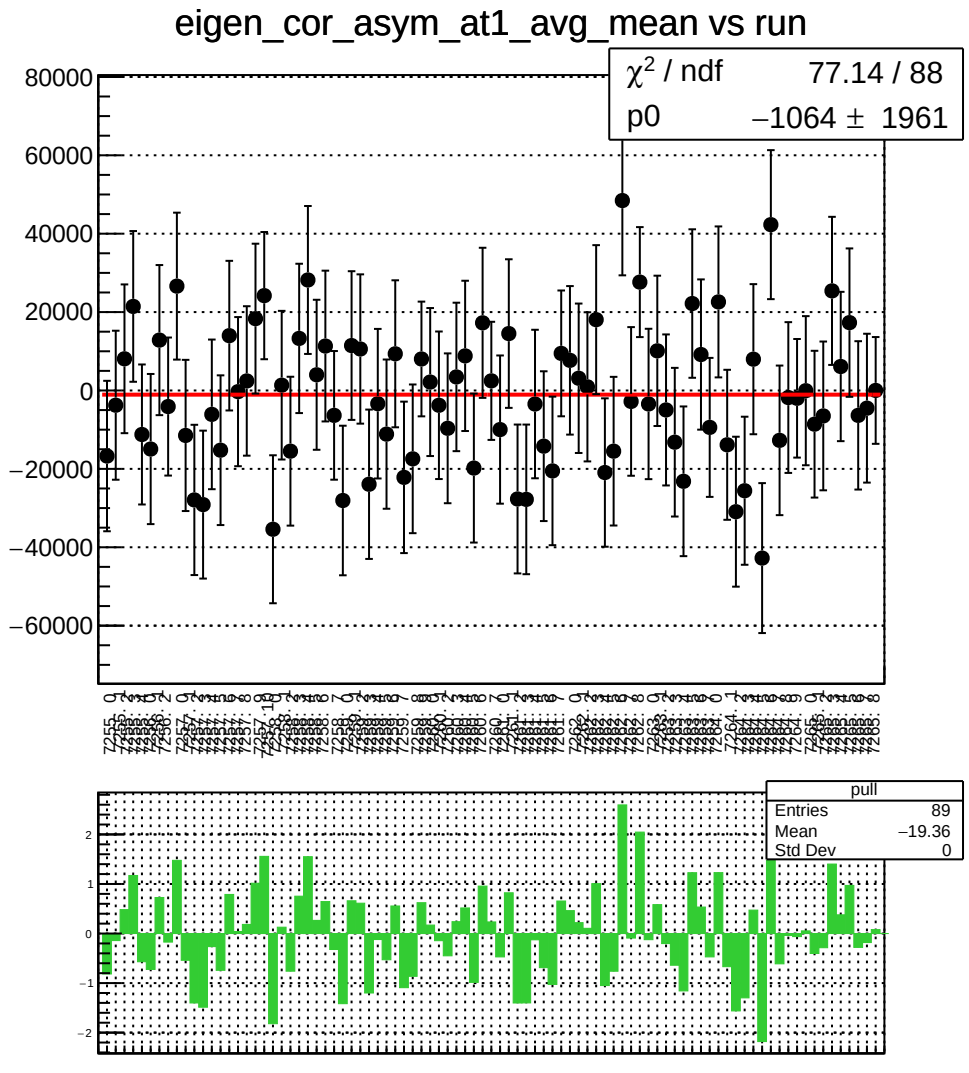

pull1D
Entries 89
Mean −0.01428
Std Dev 0.9309
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

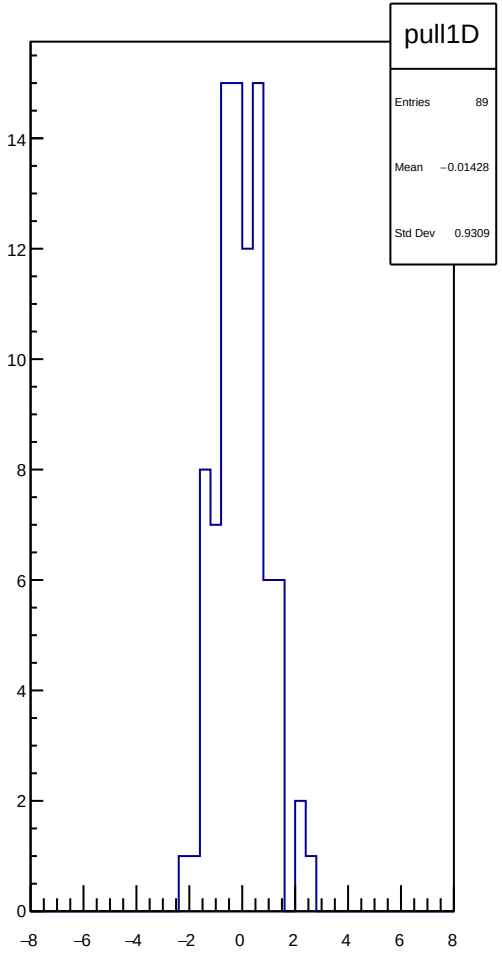

cor_asym_at1_avg_rms vs run
χ^2 / ndf 75.65 / 88
p0 1805 ± 1.386
1840
1820
1800
1780
1760

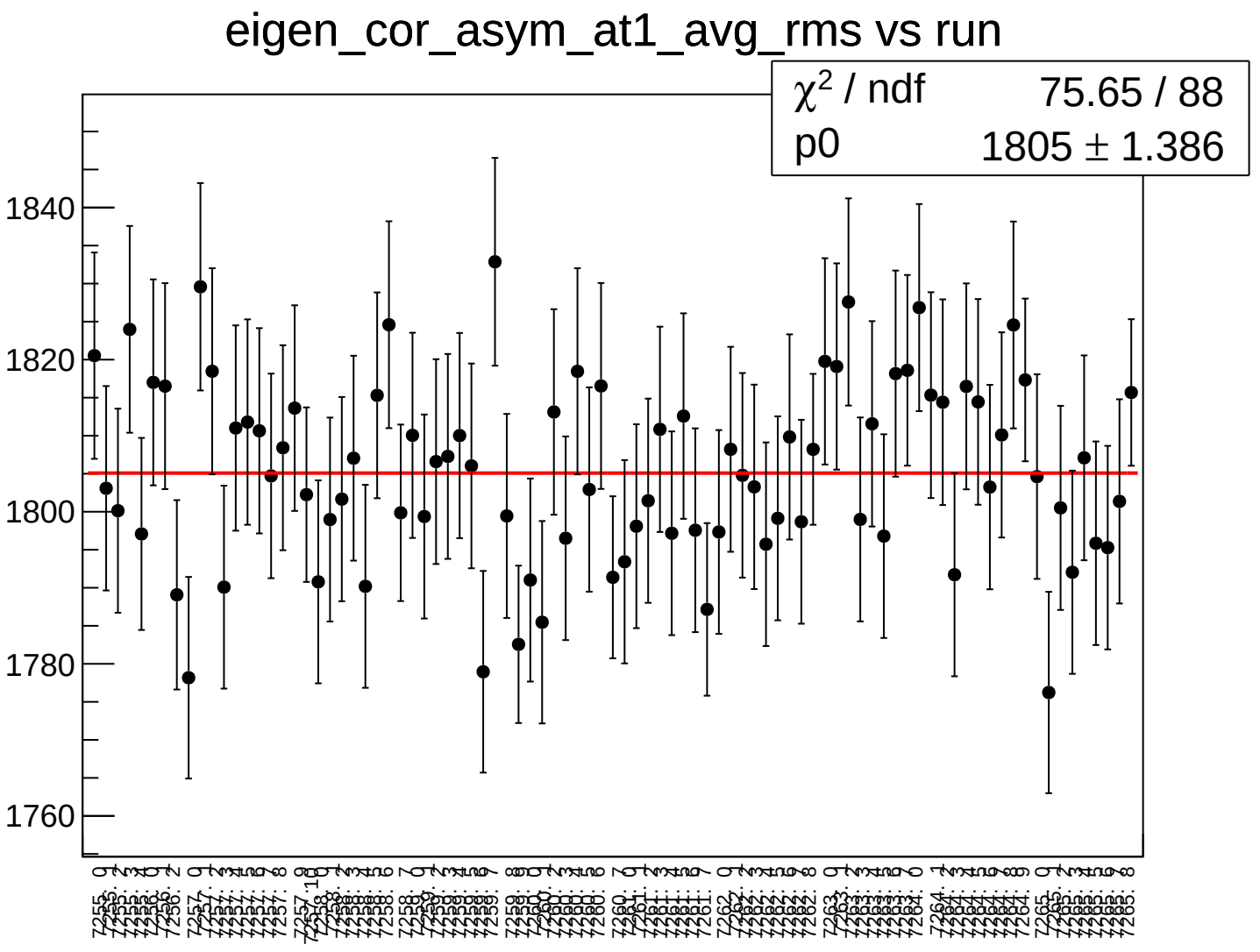

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 84.41 / 88
p0 260.9 ± 613.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1596
Std Dev 0
2
1
0
−1
−2
−3

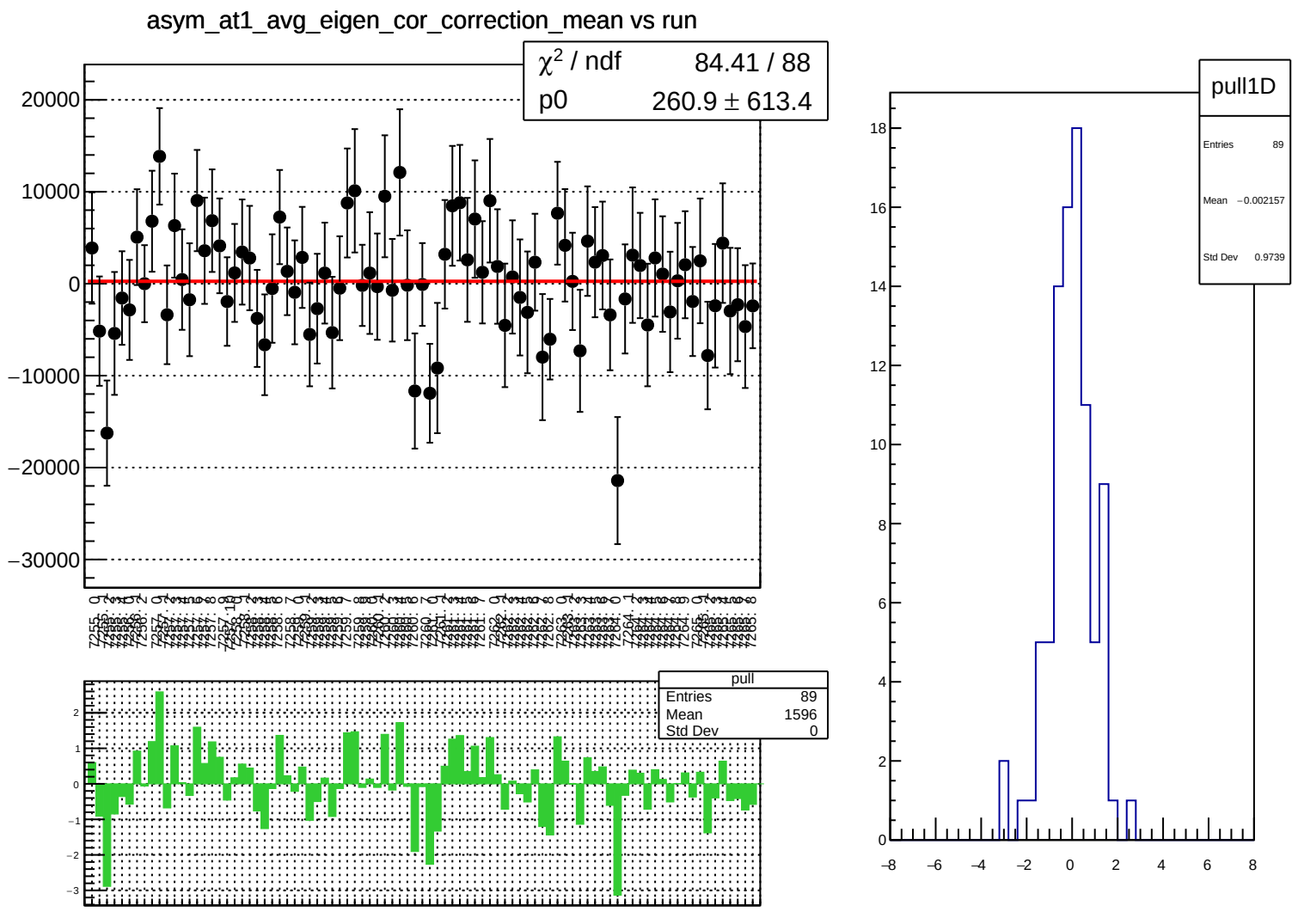

pull1D
Entries 89
Mean −0.002157
Std Dev 0.9739
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

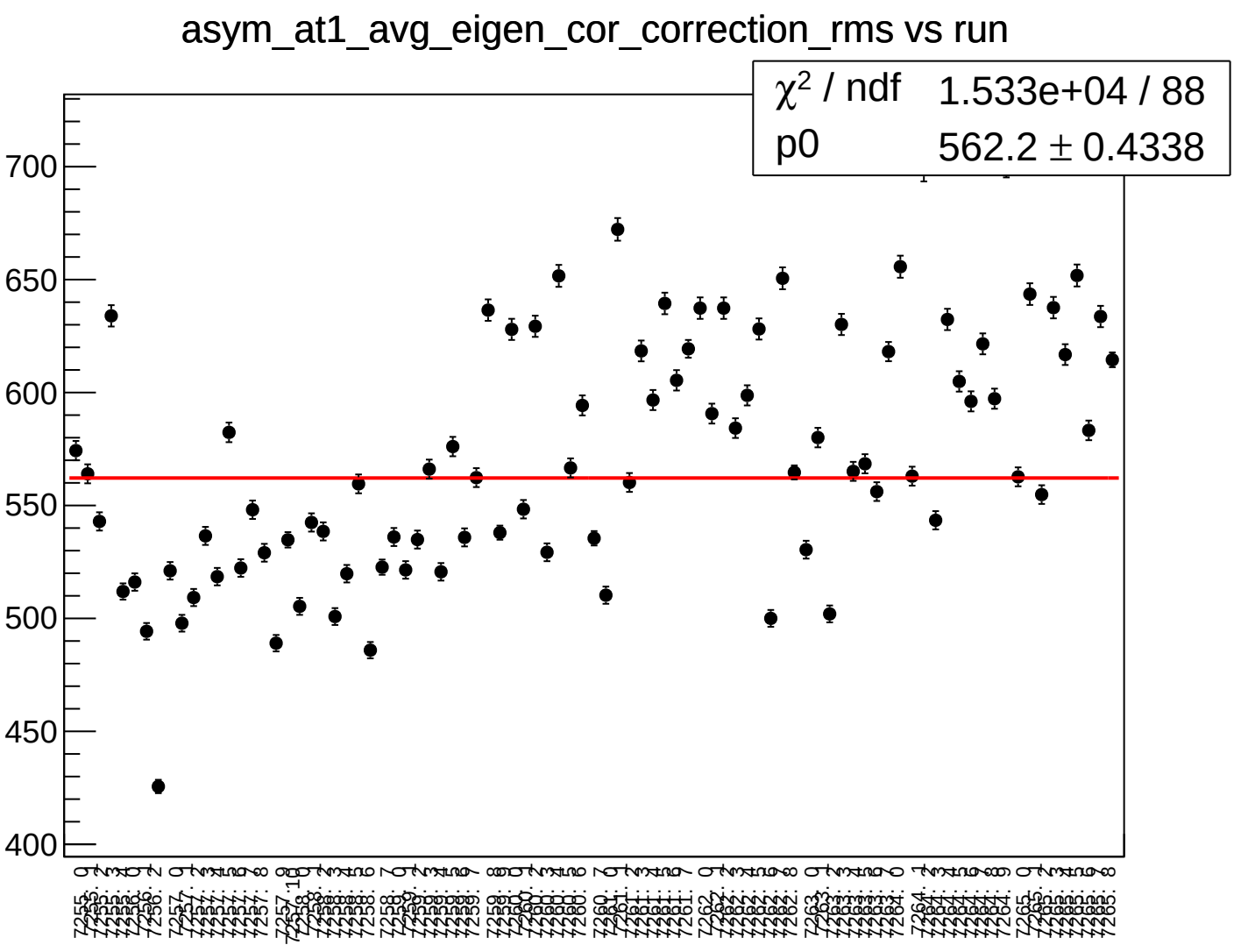

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.533e+04 / 88
p0 562.2 ± 0.4338
700
650
600
550
500
450
400

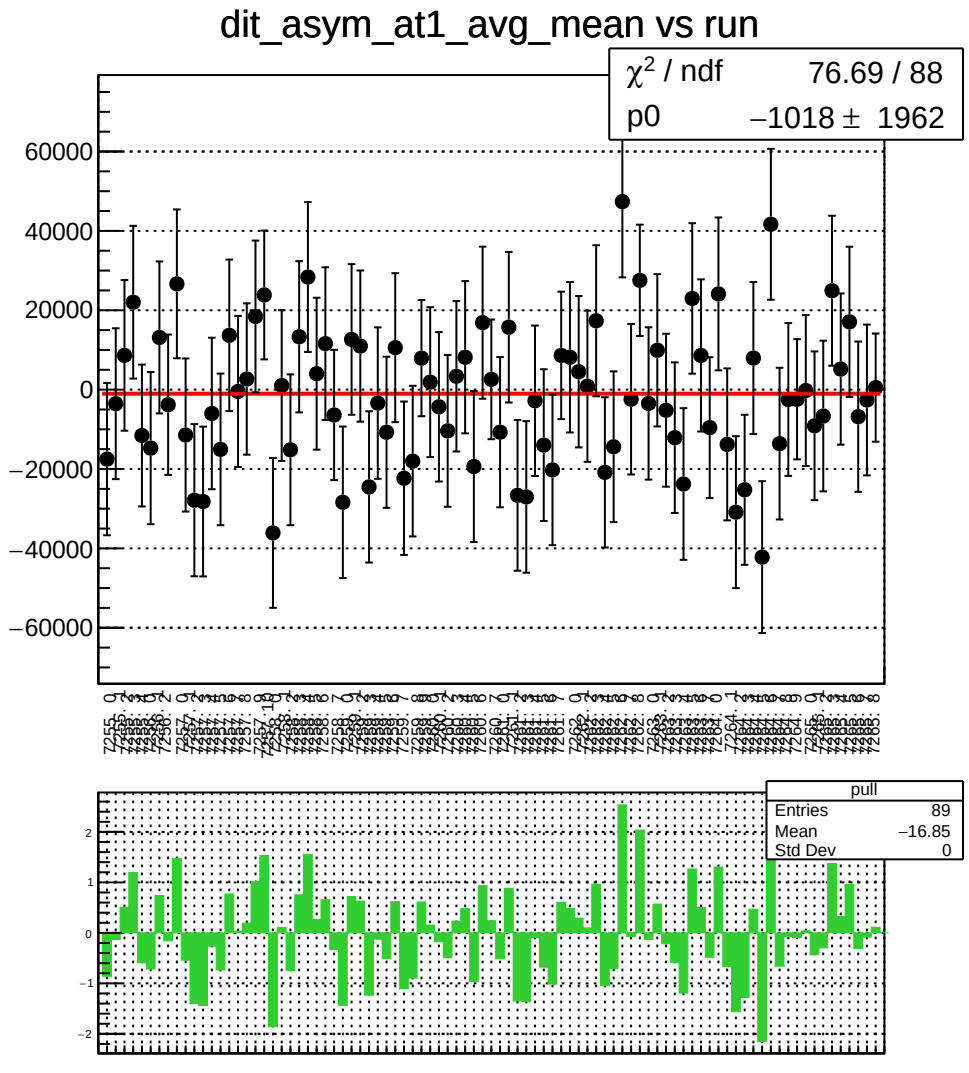

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 77.14 / 88
p0 −1064 ± 1961
pull
Entries 89
Mean −19.36
Std Dev 0

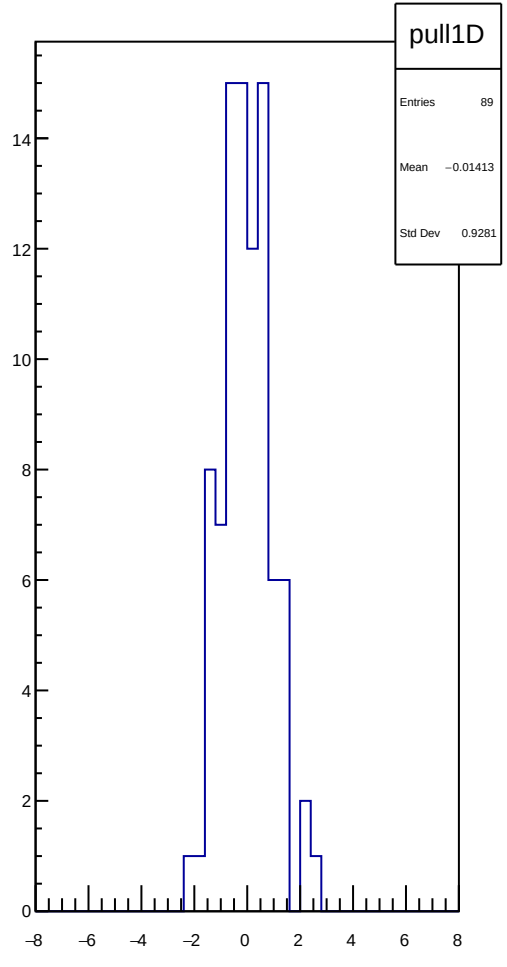

pull1D
Entries 89
Mean −0.01428
Std Dev 0.9309

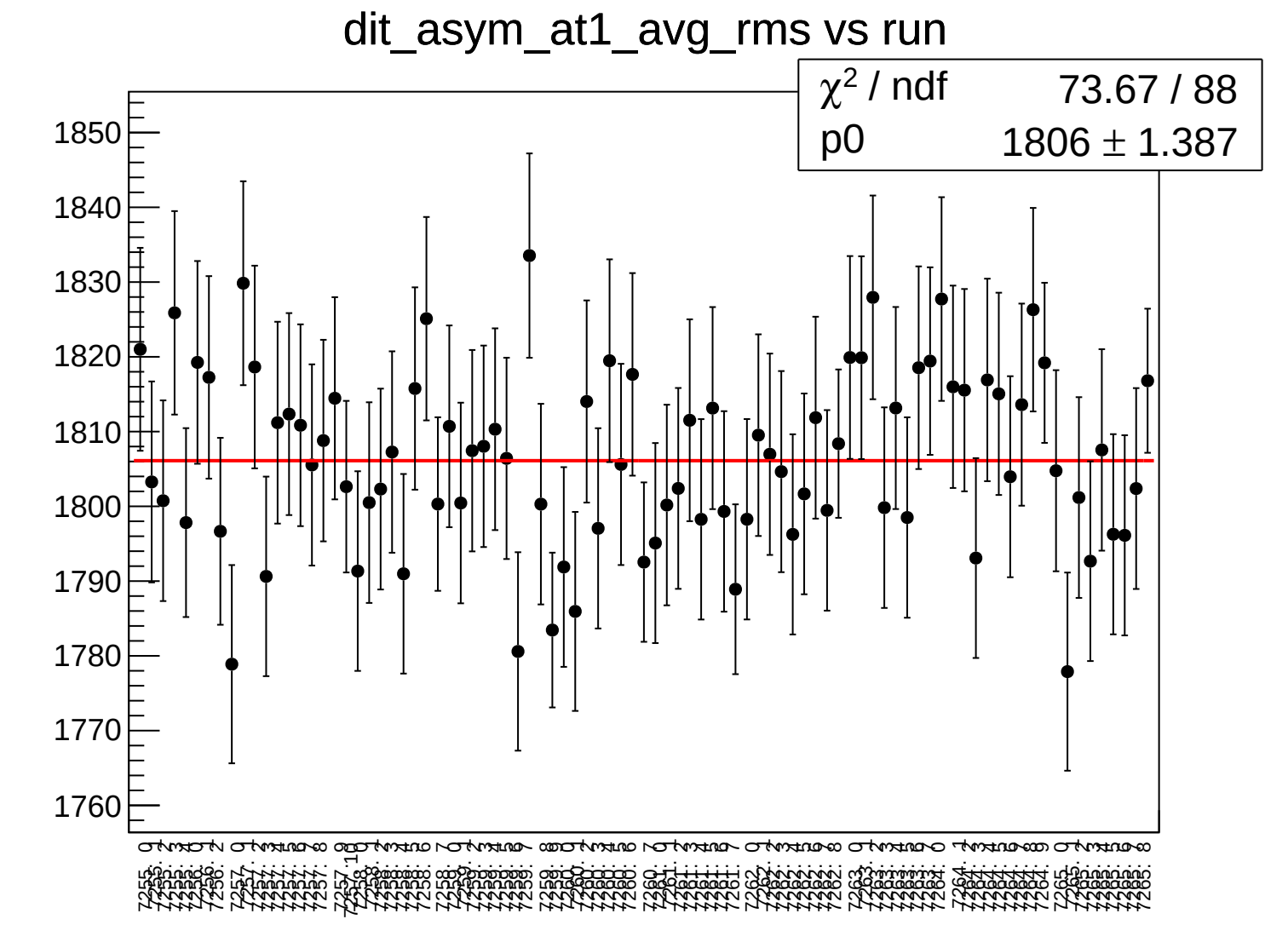

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 75.65 / 88
p0 1805 ± 1.386
1840
1820
1800
1780
1760

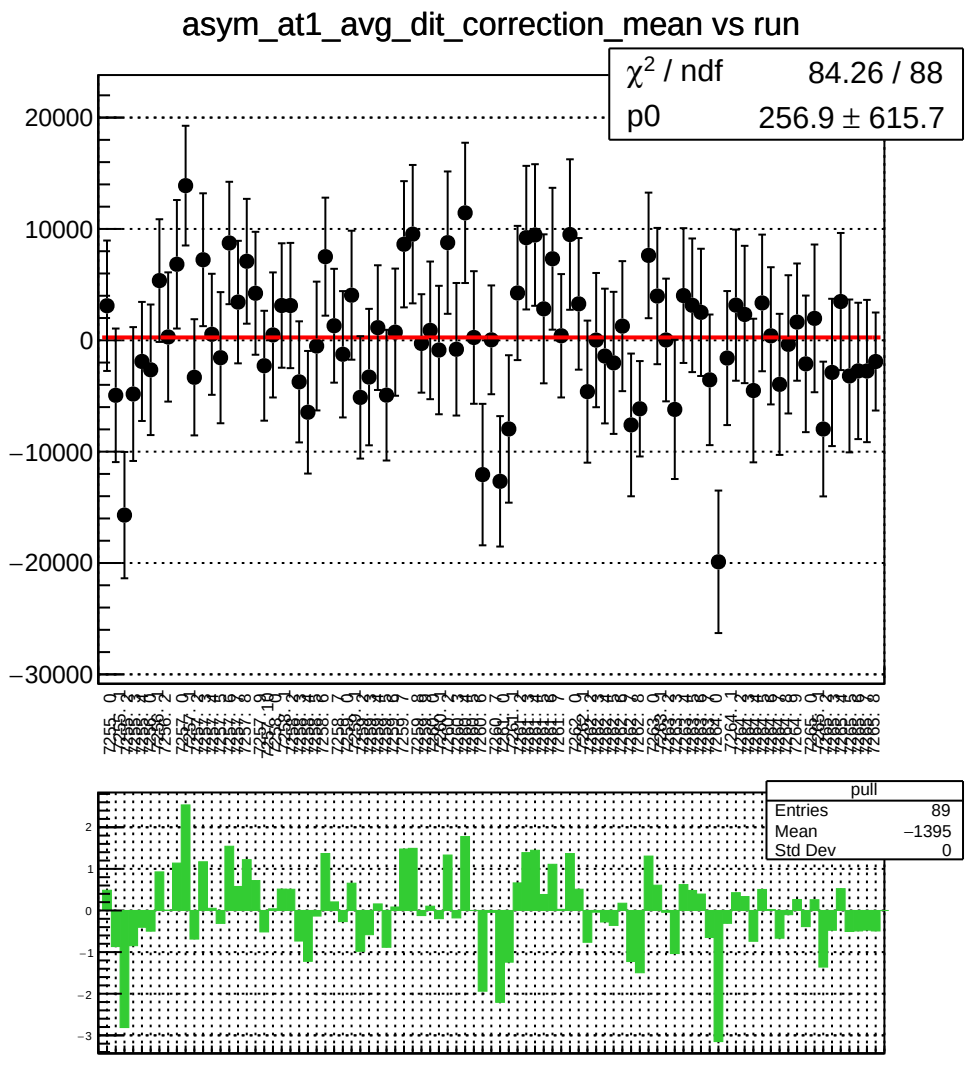

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.41 / 88
p0 260.9 ± 613.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1596
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.002157
Std Dev 0.9739
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

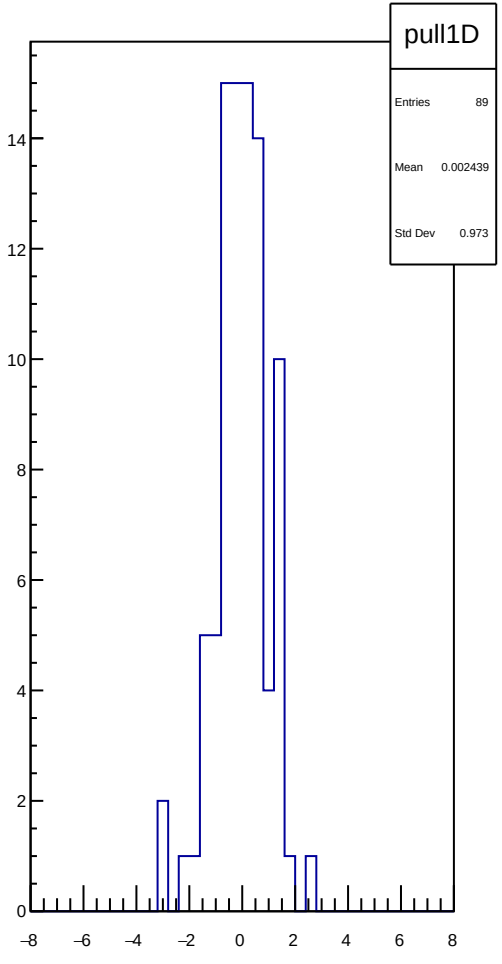

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.533e+04 / 88
p0 562.2 ± 0.4338
700
650
600
550
500
450
400

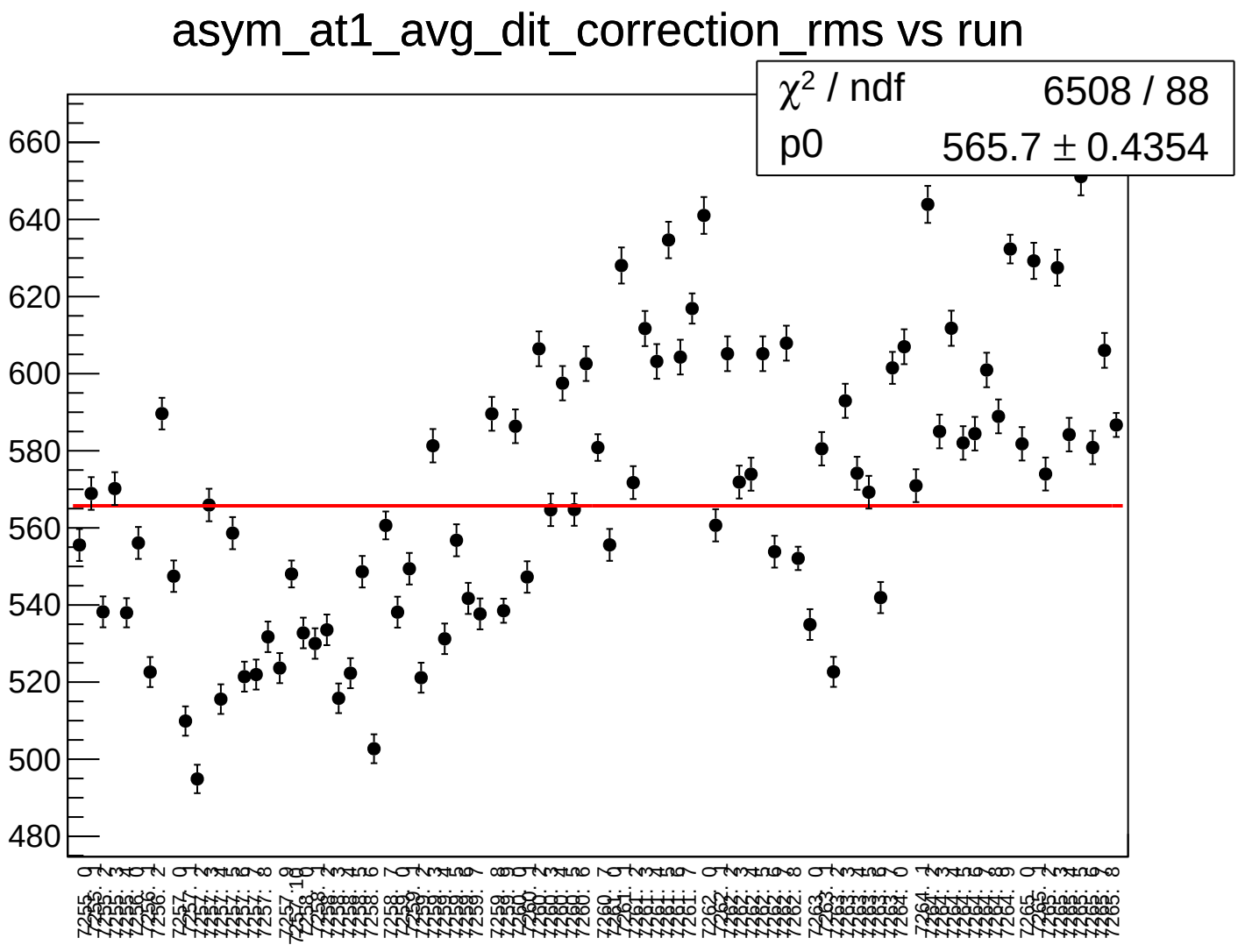

dit_asym_at1_avg_mean vs run
χ² / ndf 76.69 / 88
p0 −1018 ± 1962
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −16.85
Std Dev 0
2
1
0
−1
−2

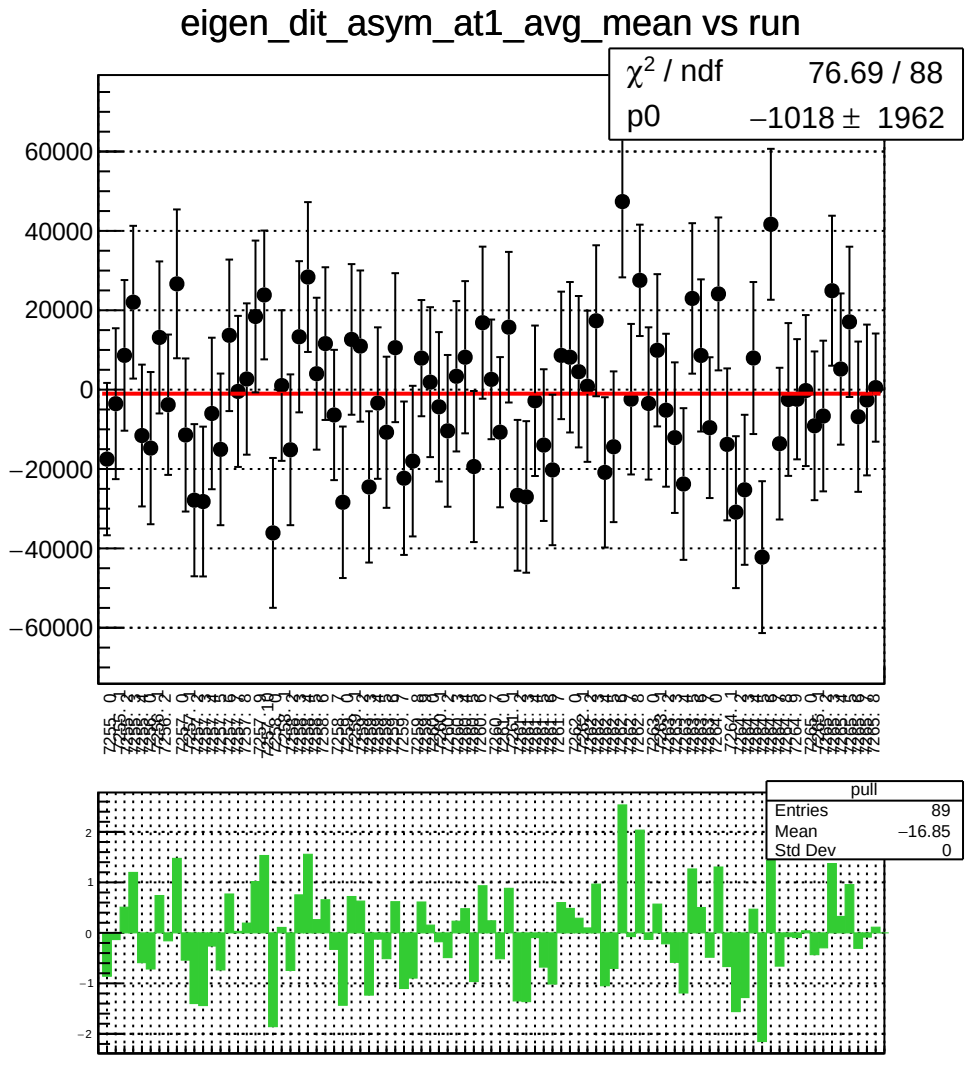

pull1D
Entries 89
Mean −0.01413
Std Dev 0.9281
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

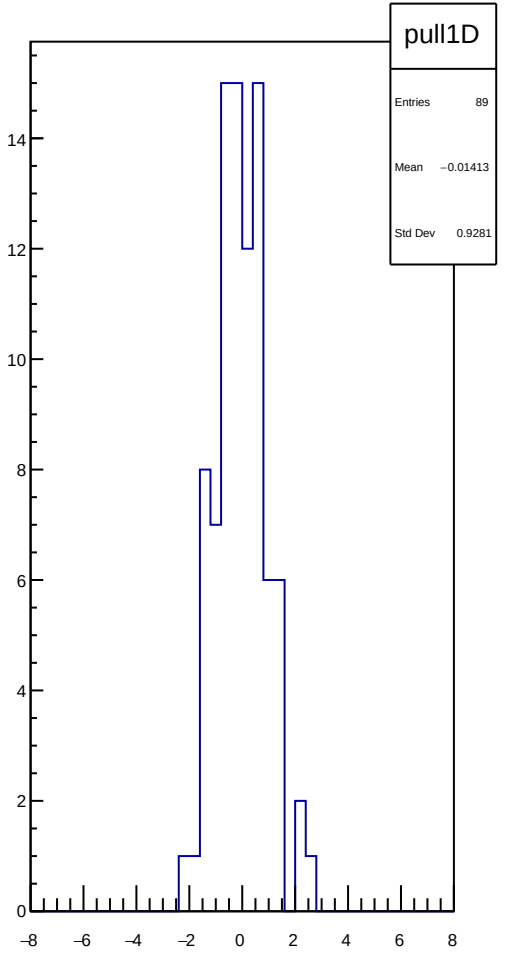

dit_asym_at1_avg_rms vs run
χ² / ndf 73.67 / 88
p0 1806 ± 1.387
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760

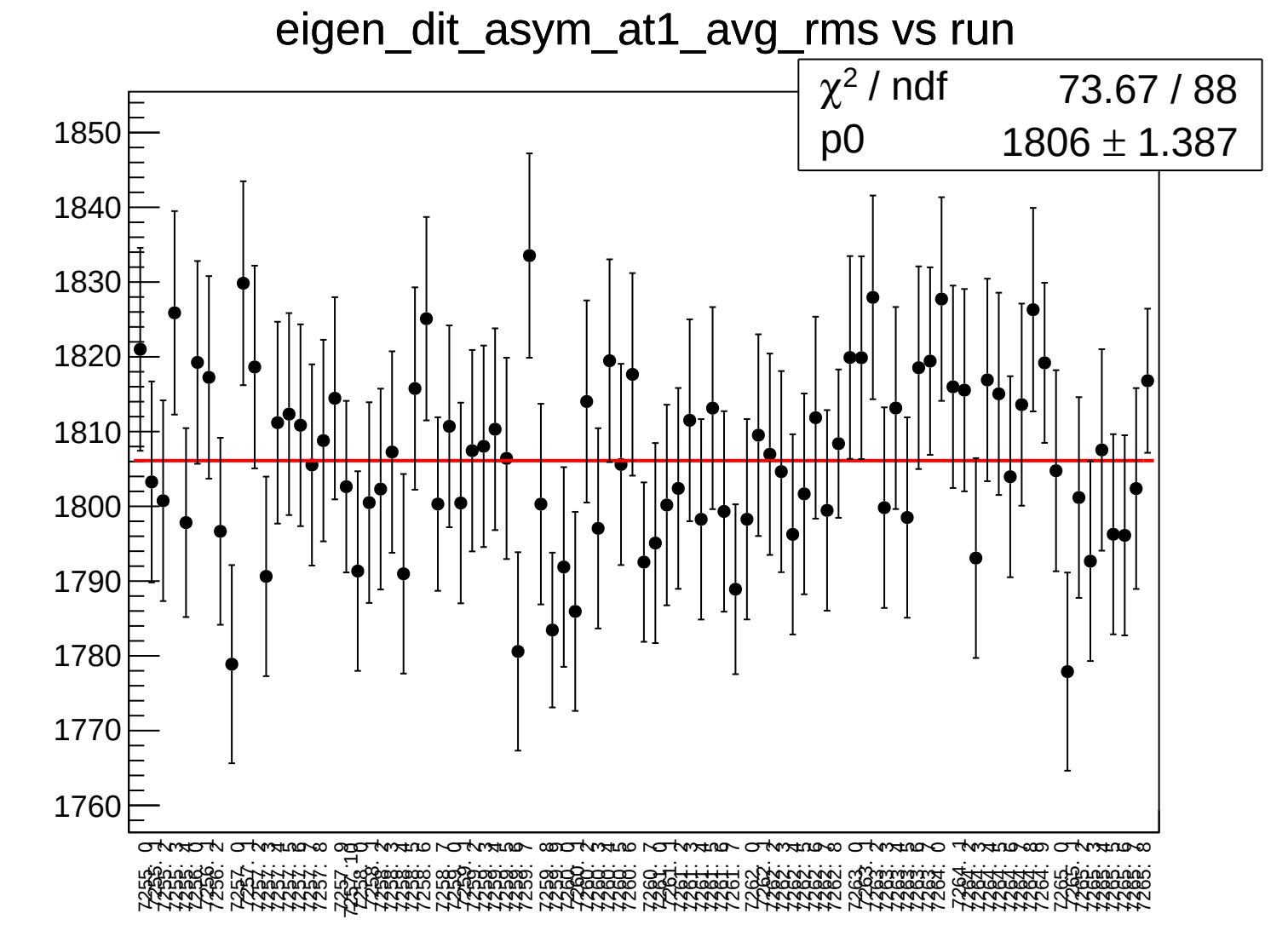

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 84.26 / 88
p0 256.9 ± 615.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1395
Std Dev 0
2
1
0
−1
−2
−3

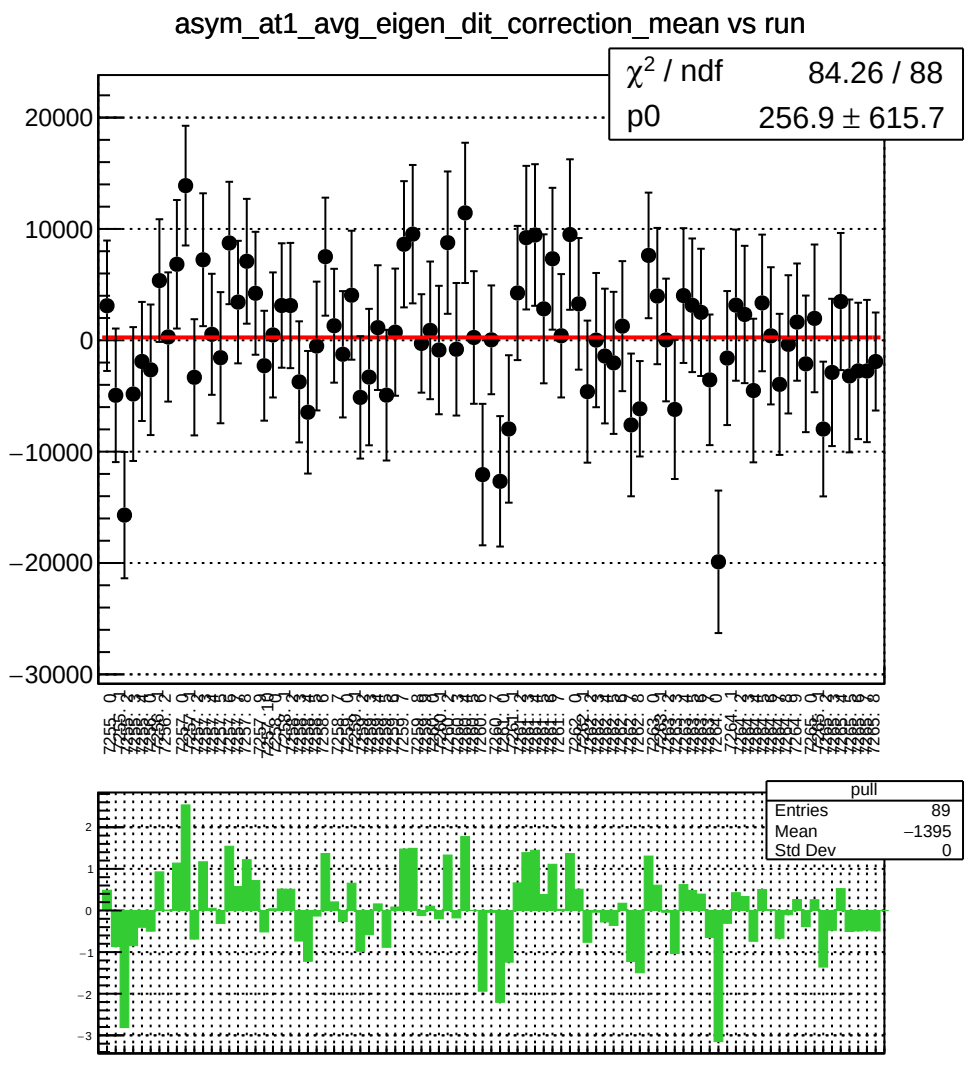

pull1D
Entries 89
Mean 0.002439
Std Dev 0.973
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

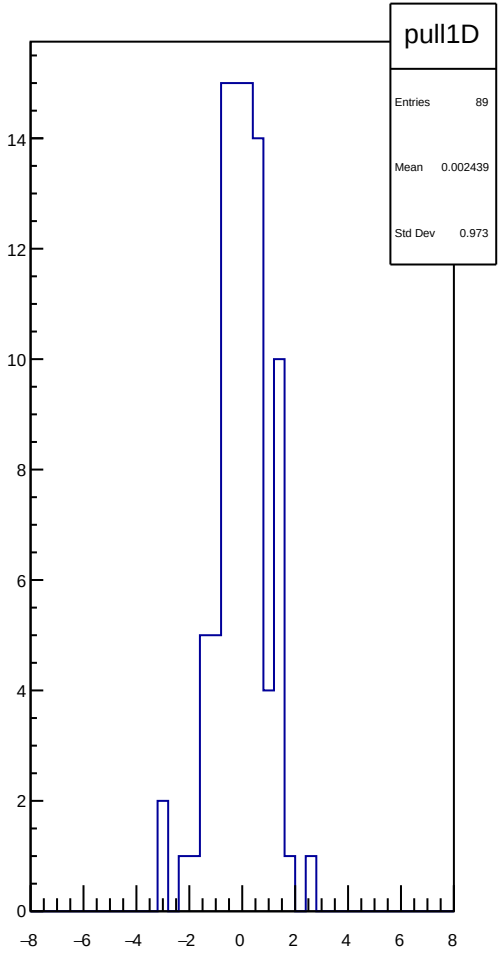

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 6508 / 88
p0 565.7 ± 0.4354
660
640
620
600
580
560
540
520
500
480

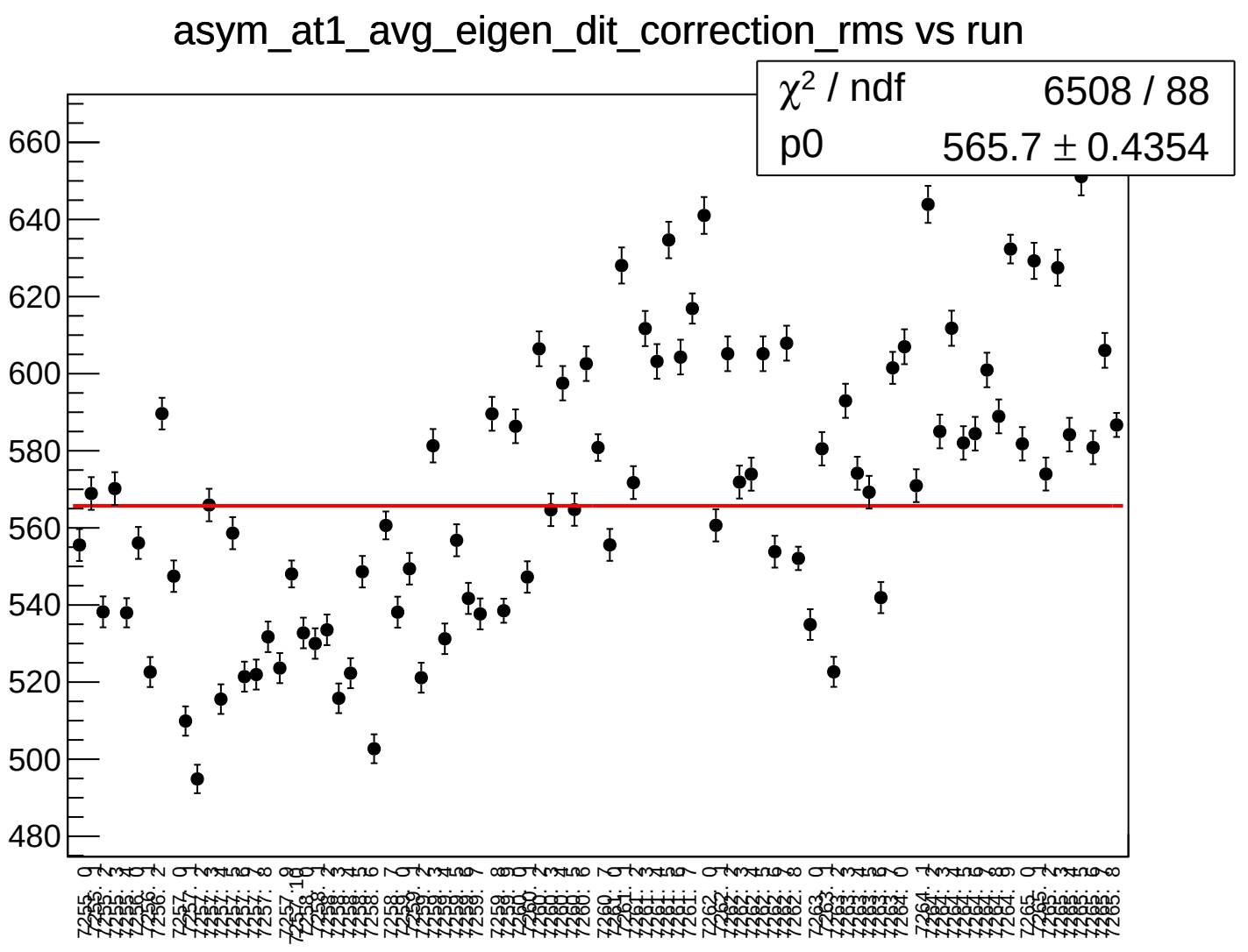

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 76.69 / 88
p0 −1018 ± 1962
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −16.85
Std Dev 0
2
1
0
−1
−2

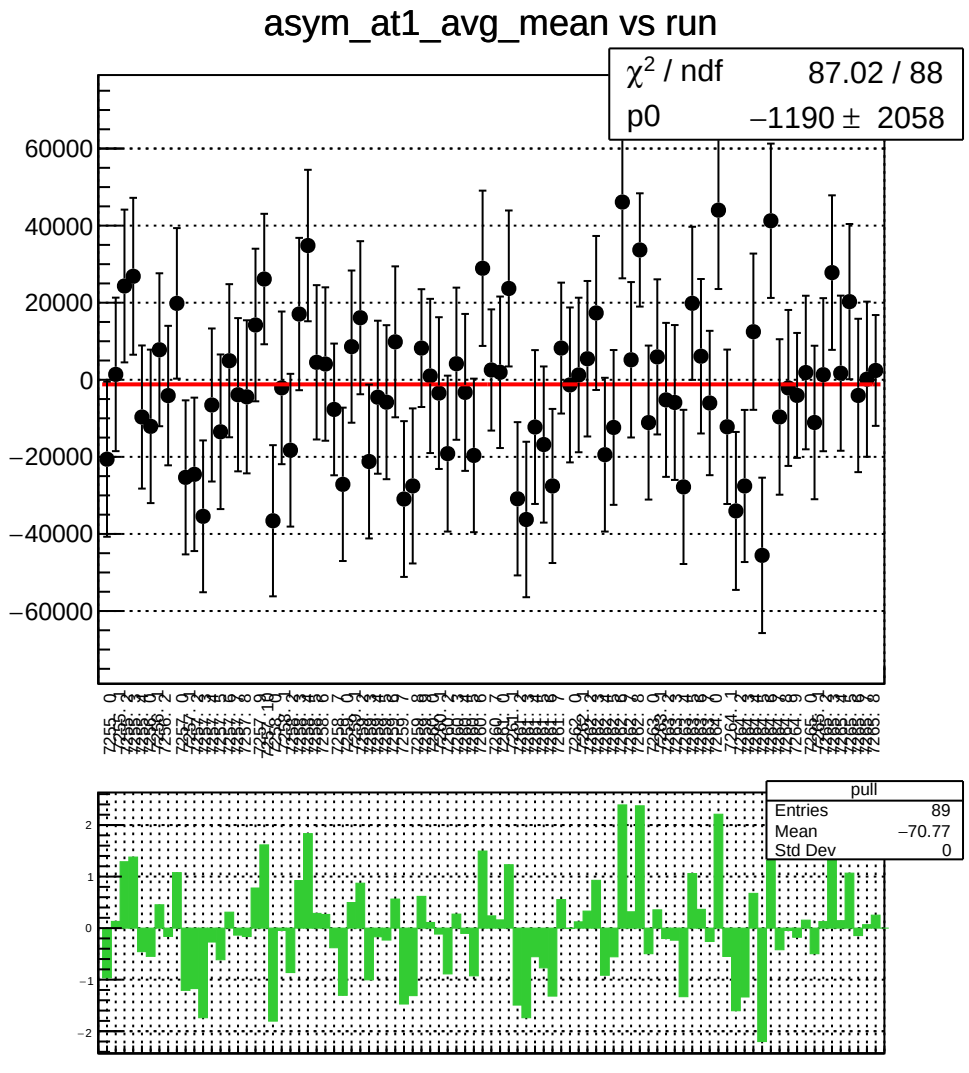

pull1D
Entries 89
Mean −0.01413
Std Dev 0.9281
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

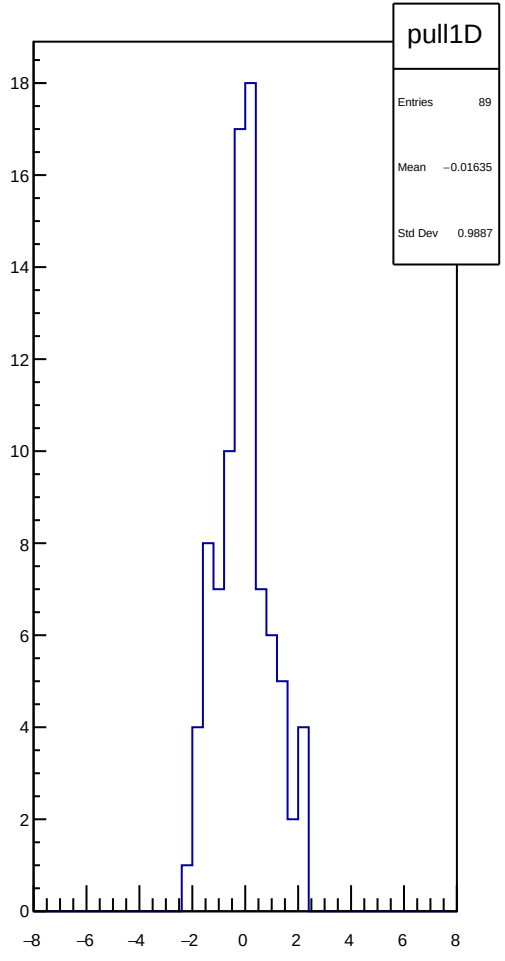

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 73.67 / 88
p0 1806 ± 1.387
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760

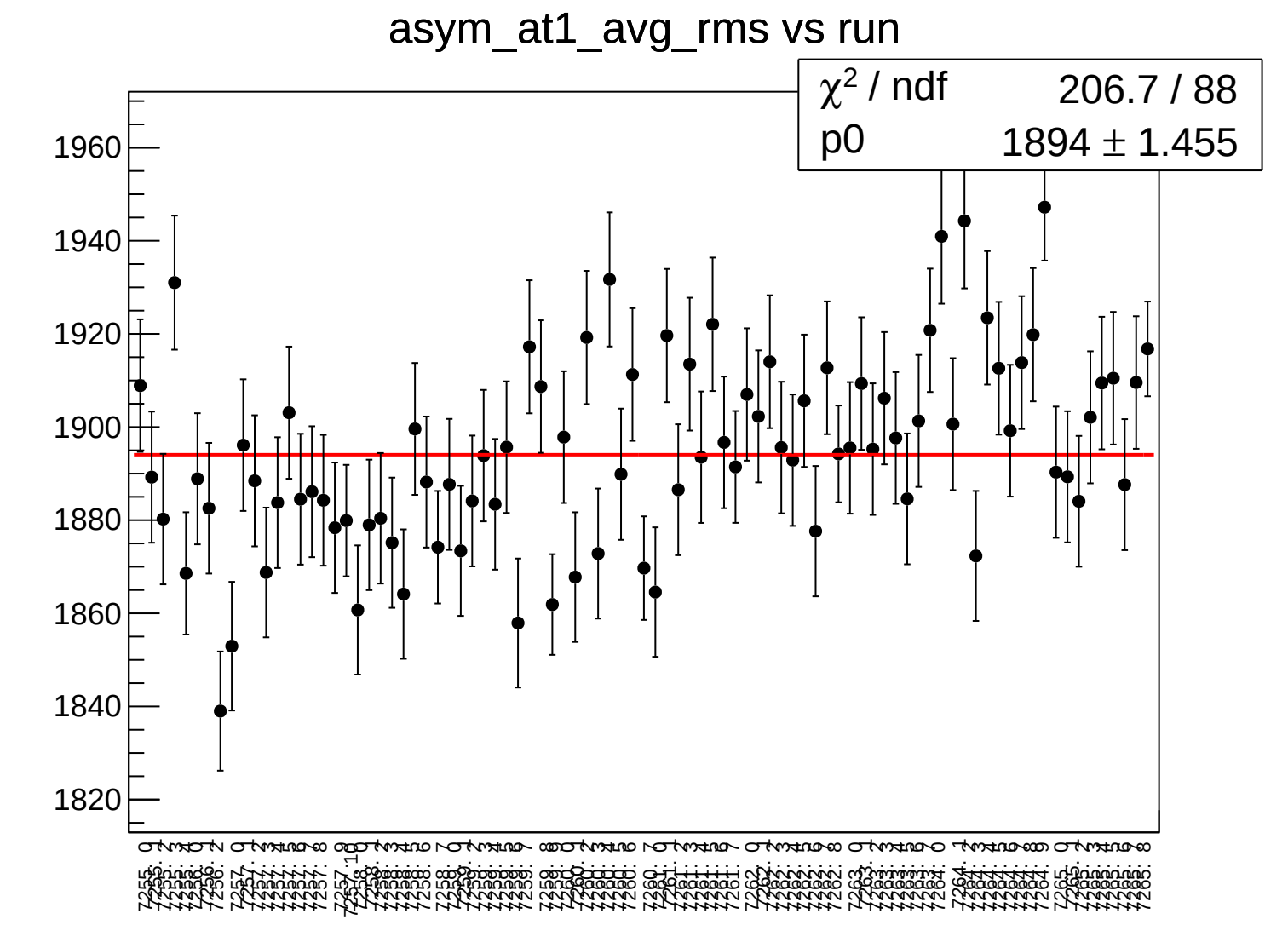

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.26 / 88
p0 256.9 ± 615.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1395
Std Dev 0
2
1
0
−1
−2
−3

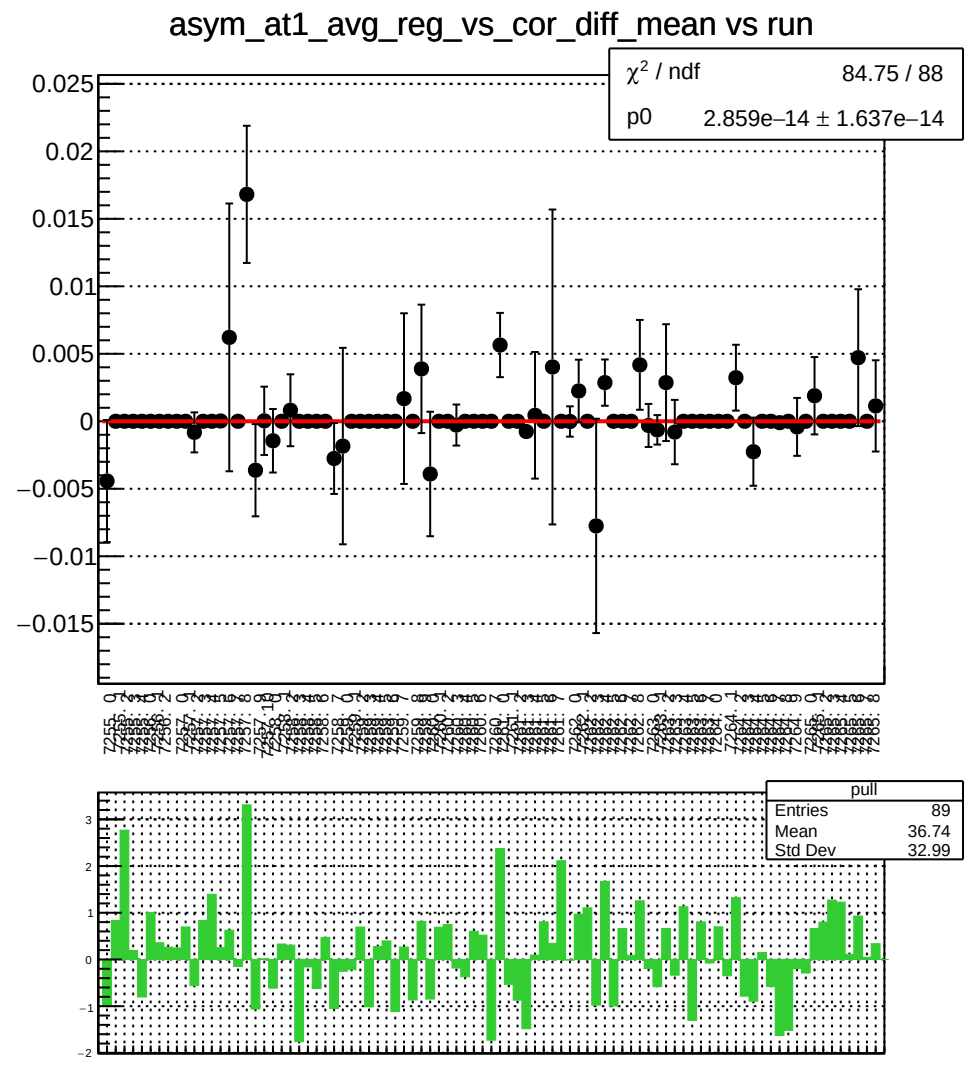

pull1D
Entries 89
Mean 0.002439
Std Dev 0.973
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

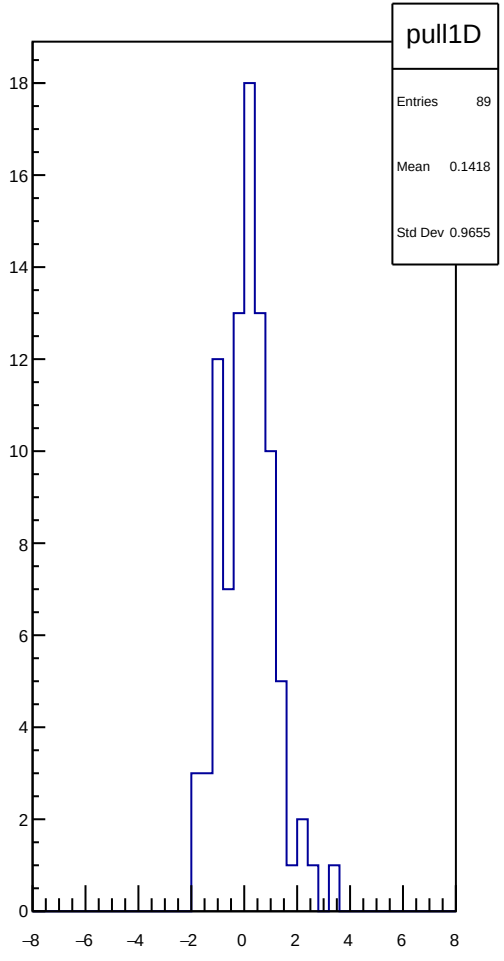

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 6508 / 88
p0 565.7 ± 0.4354
660
640
620
600
580
560
540
520
500
480

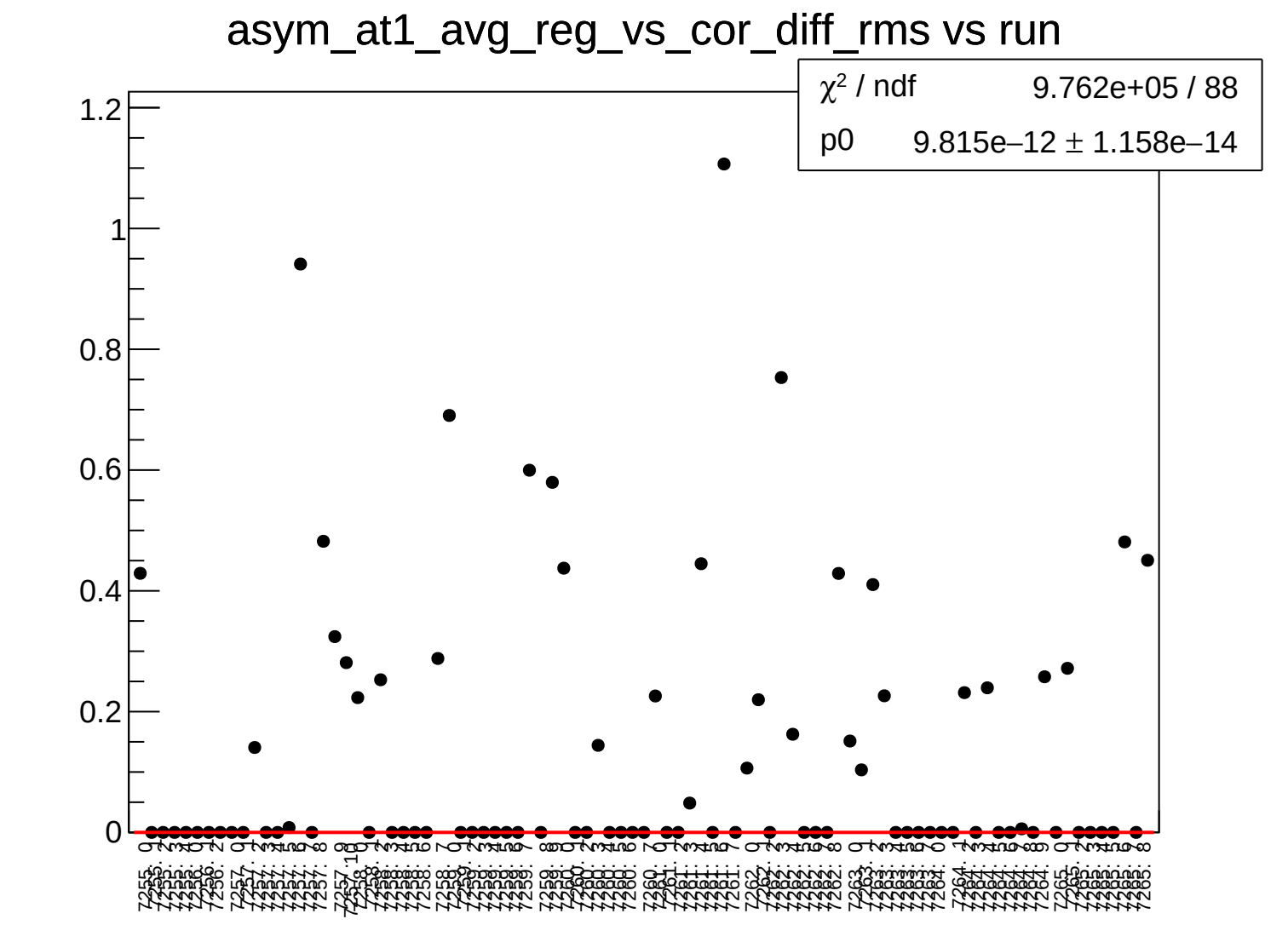

asym_at1_avg_mean vs run
χ² / ndf 87.02 / 88
p0 −1190 ± 2058
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −70.77
Std Dev 0
2
1
0
−1
−2

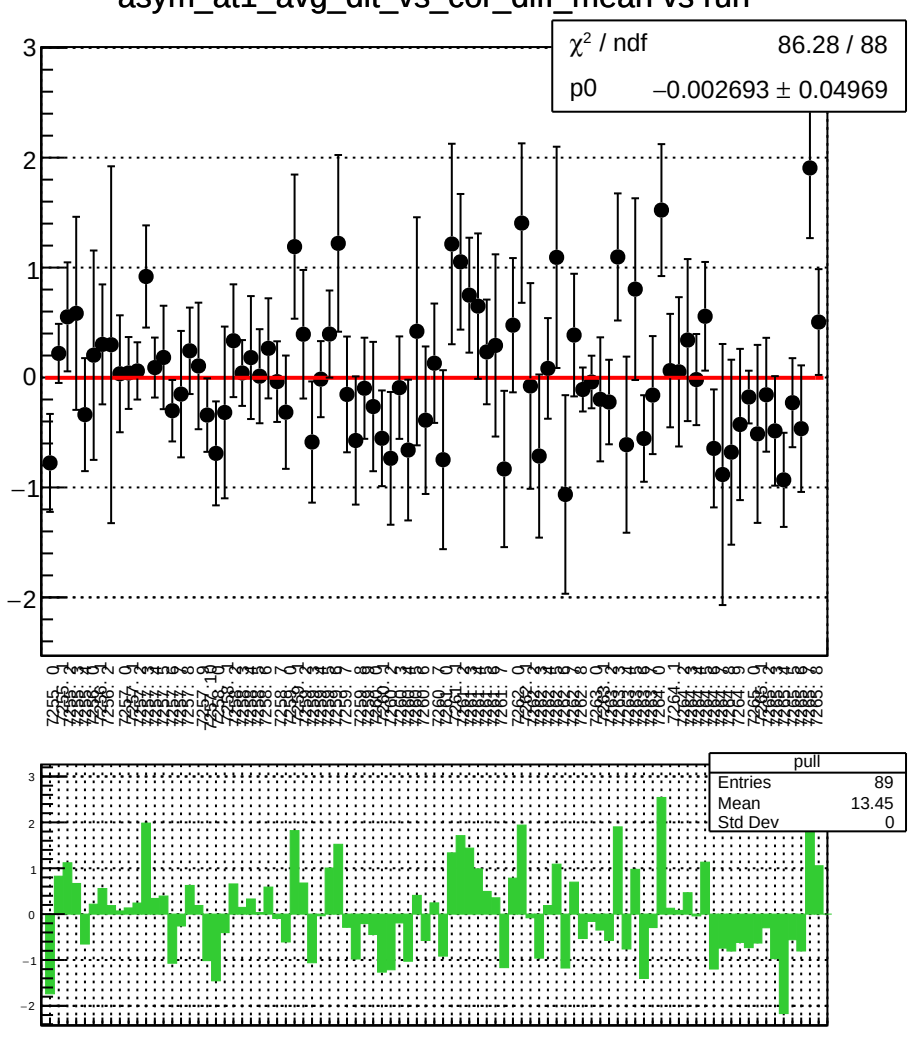

pull1D
Entries 89
Mean −0.01635
Std Dev 0.9887
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

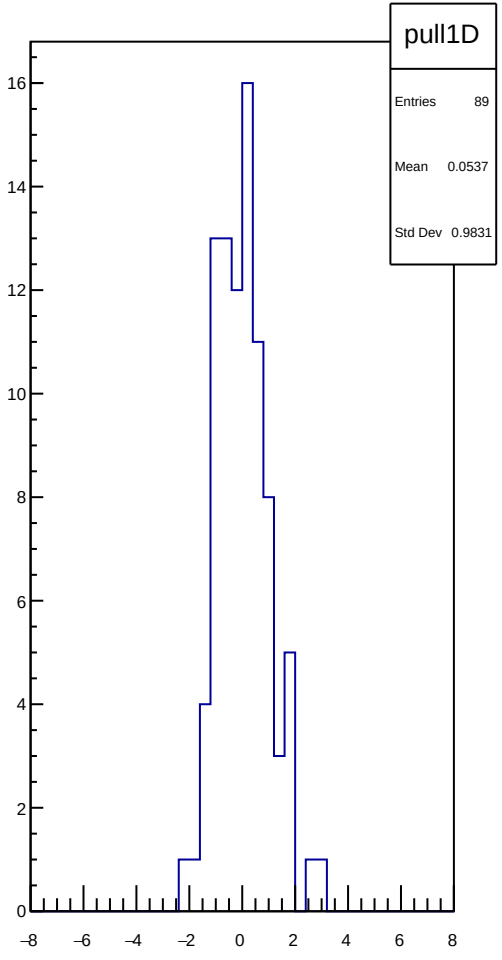

asym_at1_avg_rms vs run
χ² / ndf 206.7 / 88
p0 1894 ± 1.455
1960
1940
1920
1900
1880
1860
1840
1820

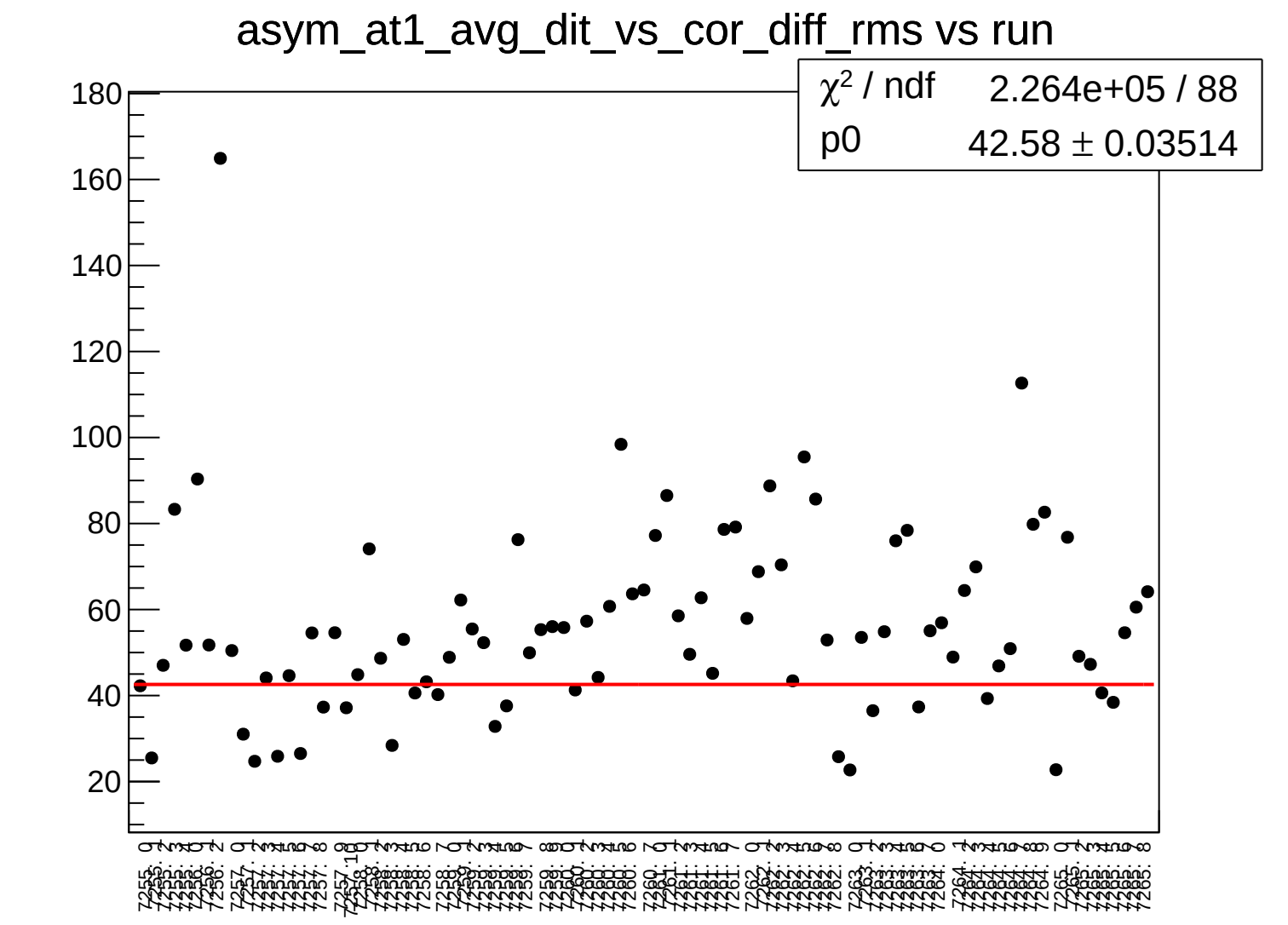

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.75 / 88
p0 2.859e−14 ± 1.637e−14
pull
Entries 89
Mean 36.74
Std Dev 32.99

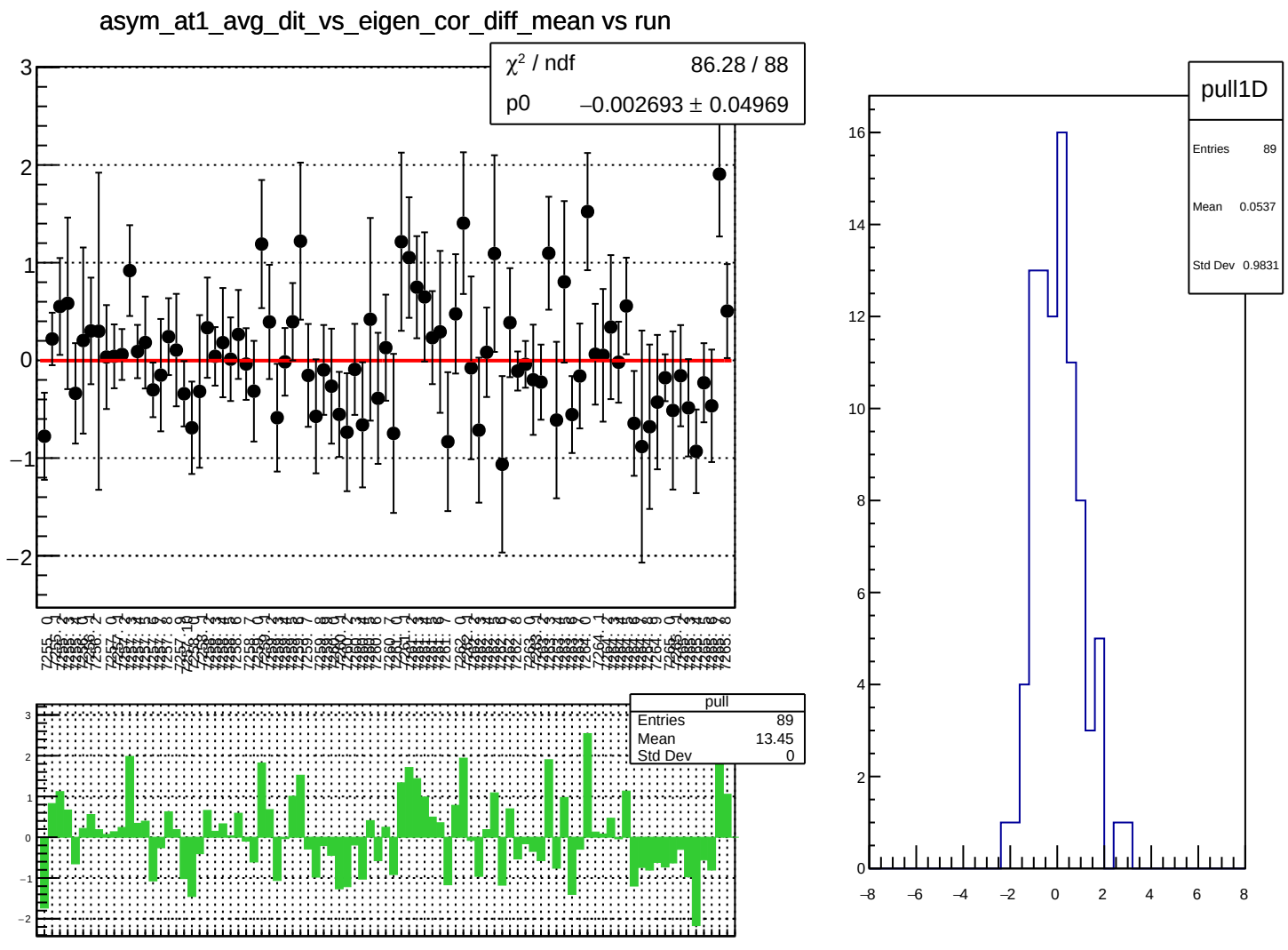

pull1D
Entries 89
Mean 0.1418
Std Dev 0.9655

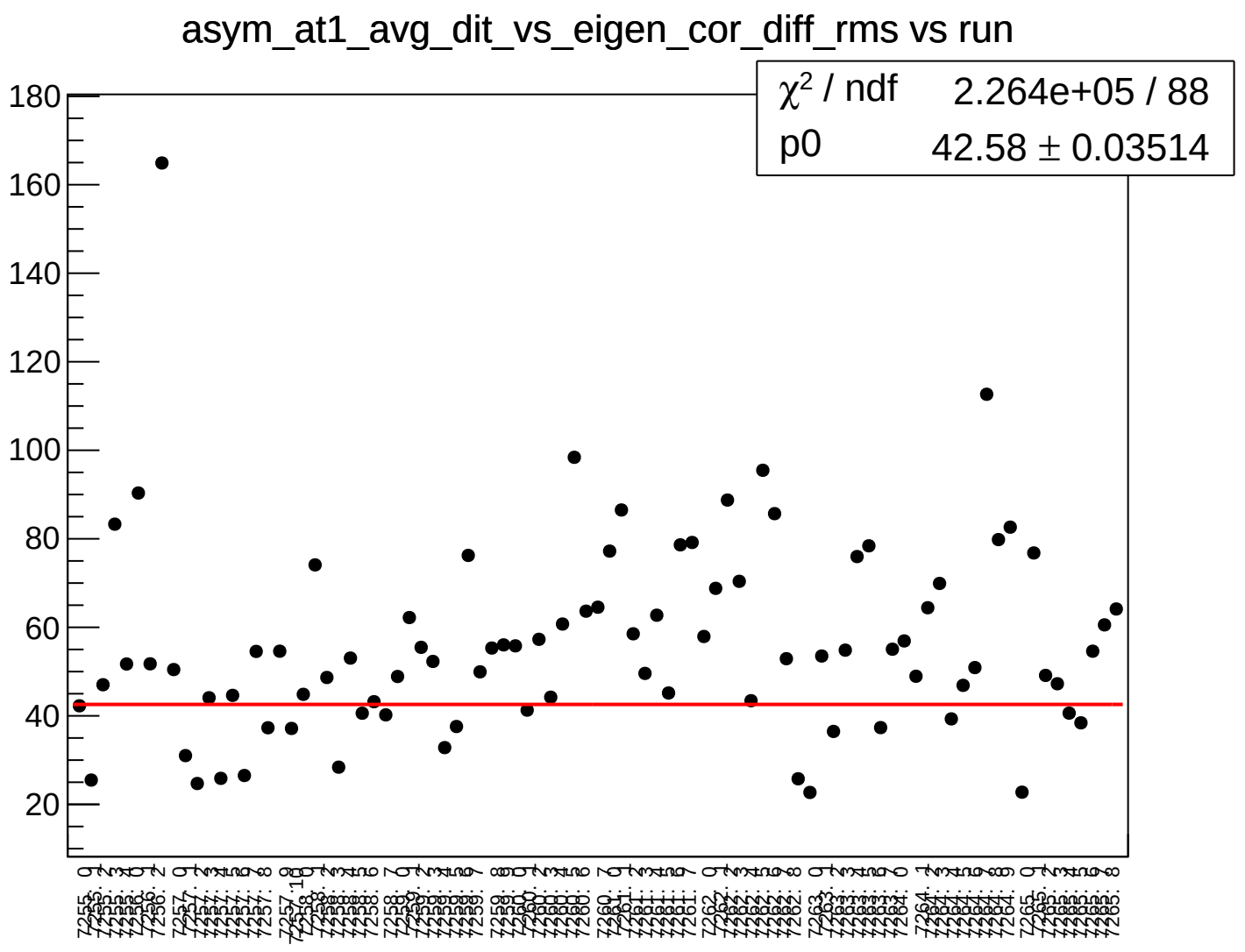

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.762e+05 / 88
p0 9.815e−12 ± 1.158e−14
1.2
1
0.8
0.6
0.4
0.2
0

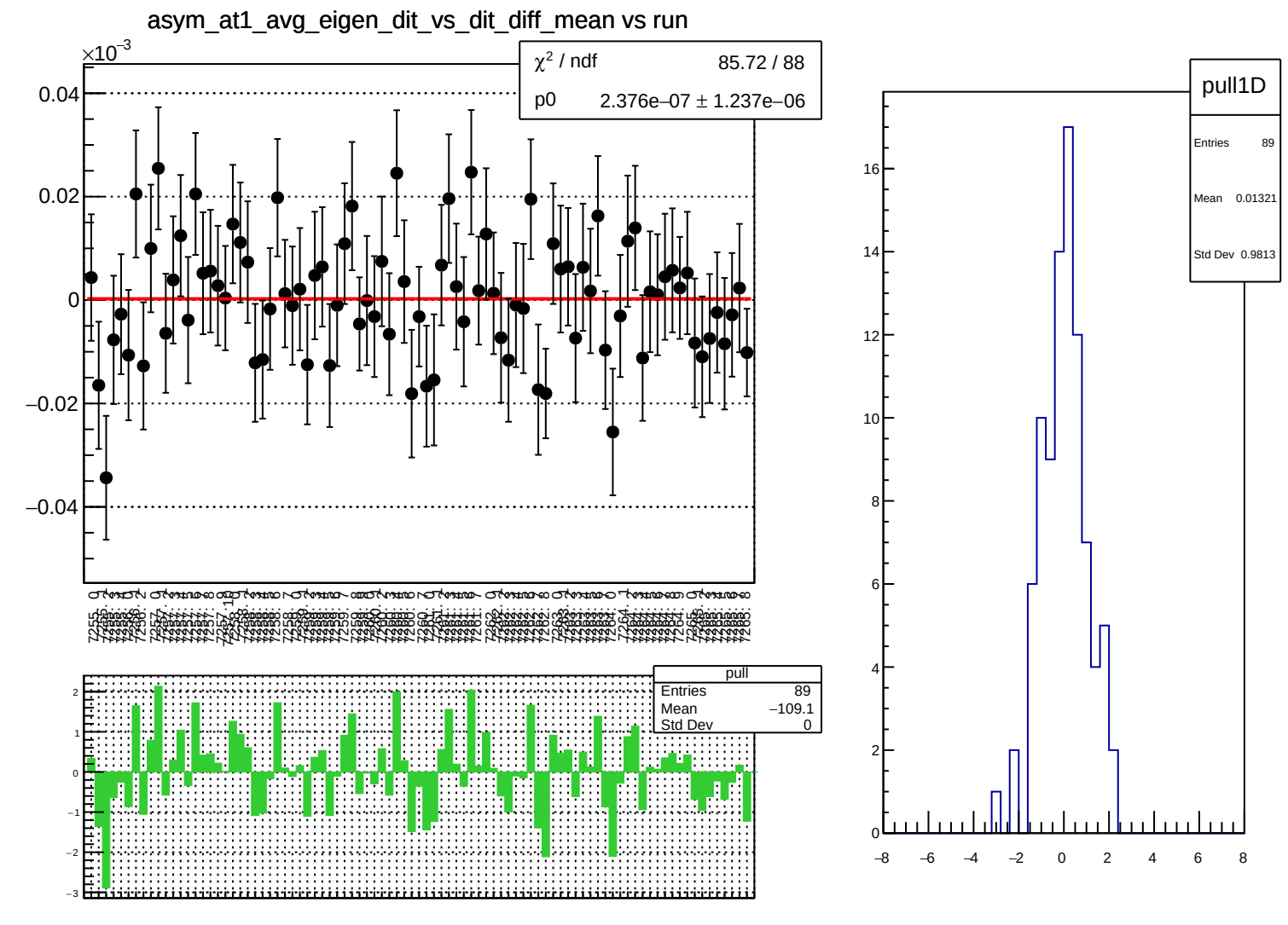

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.28 / 88
p0 −0.002693 ± 0.04969
pull
Entries 89
Mean 13.45
Std Dev 0

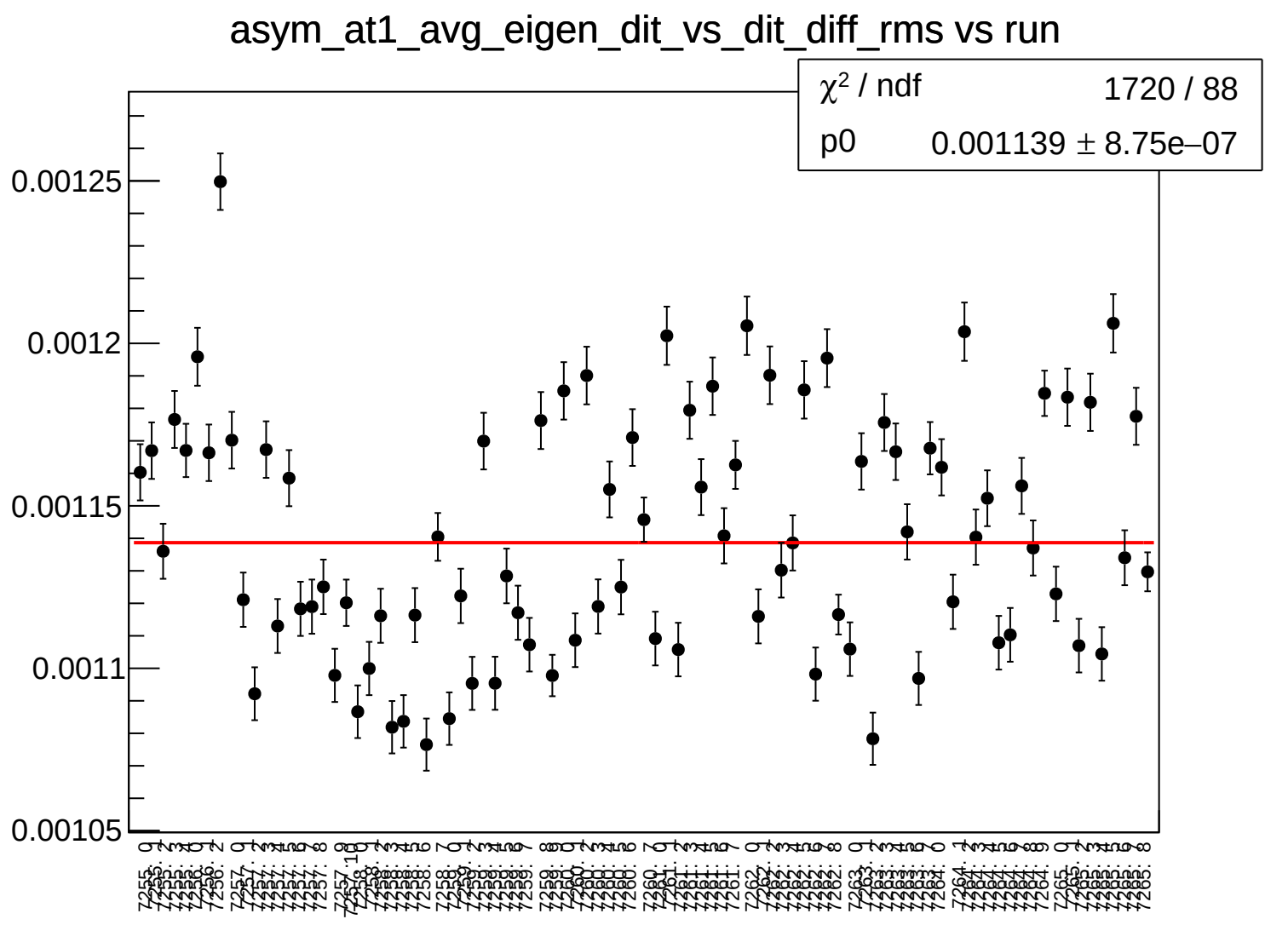

pull1D
Entries 89
Mean 0.0537
Std Dev 0.9831

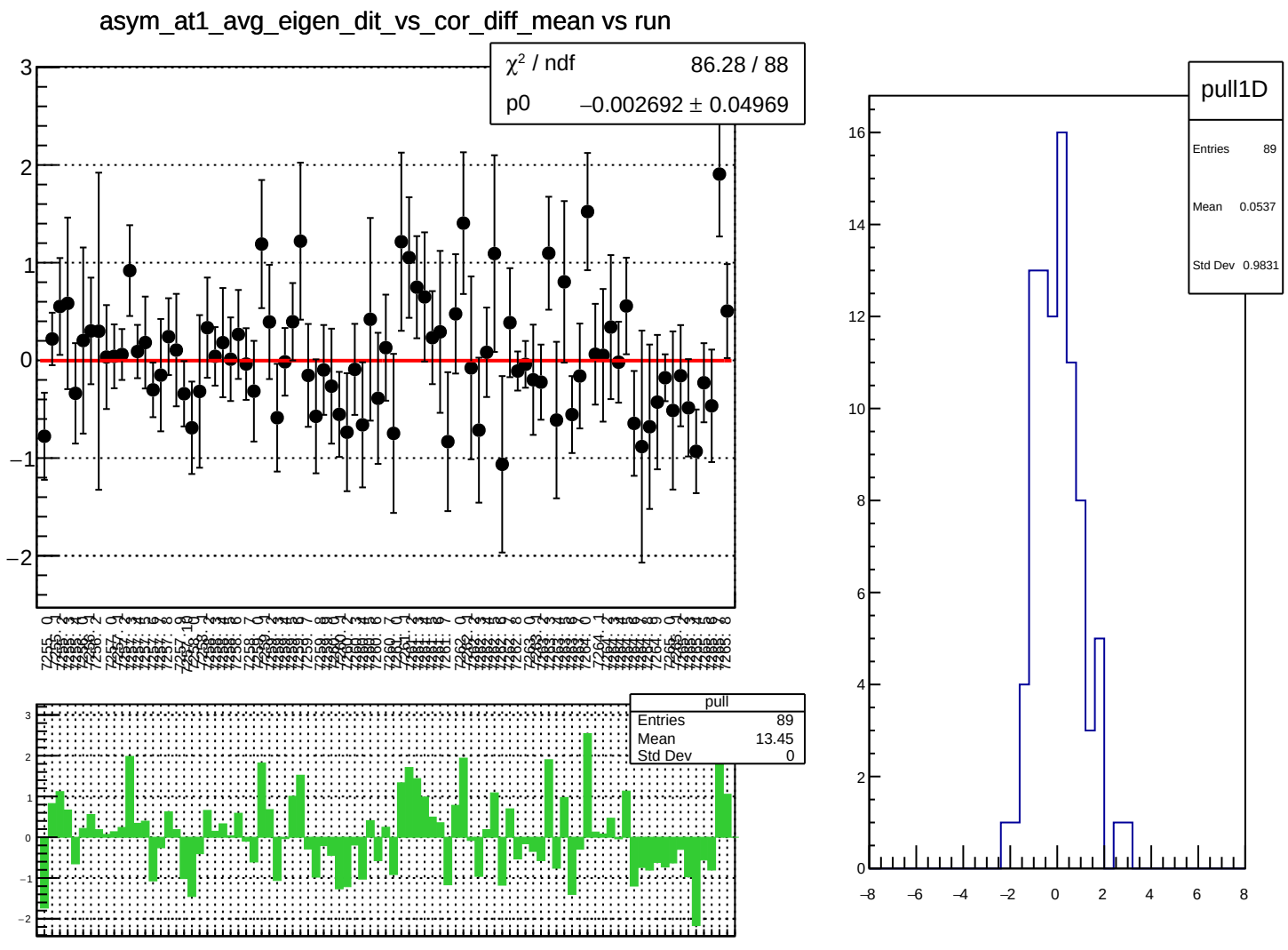

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.264e+05 / 88
p0 42.58 ± 0.03514
180
160
140
120
100
80
60
40
20

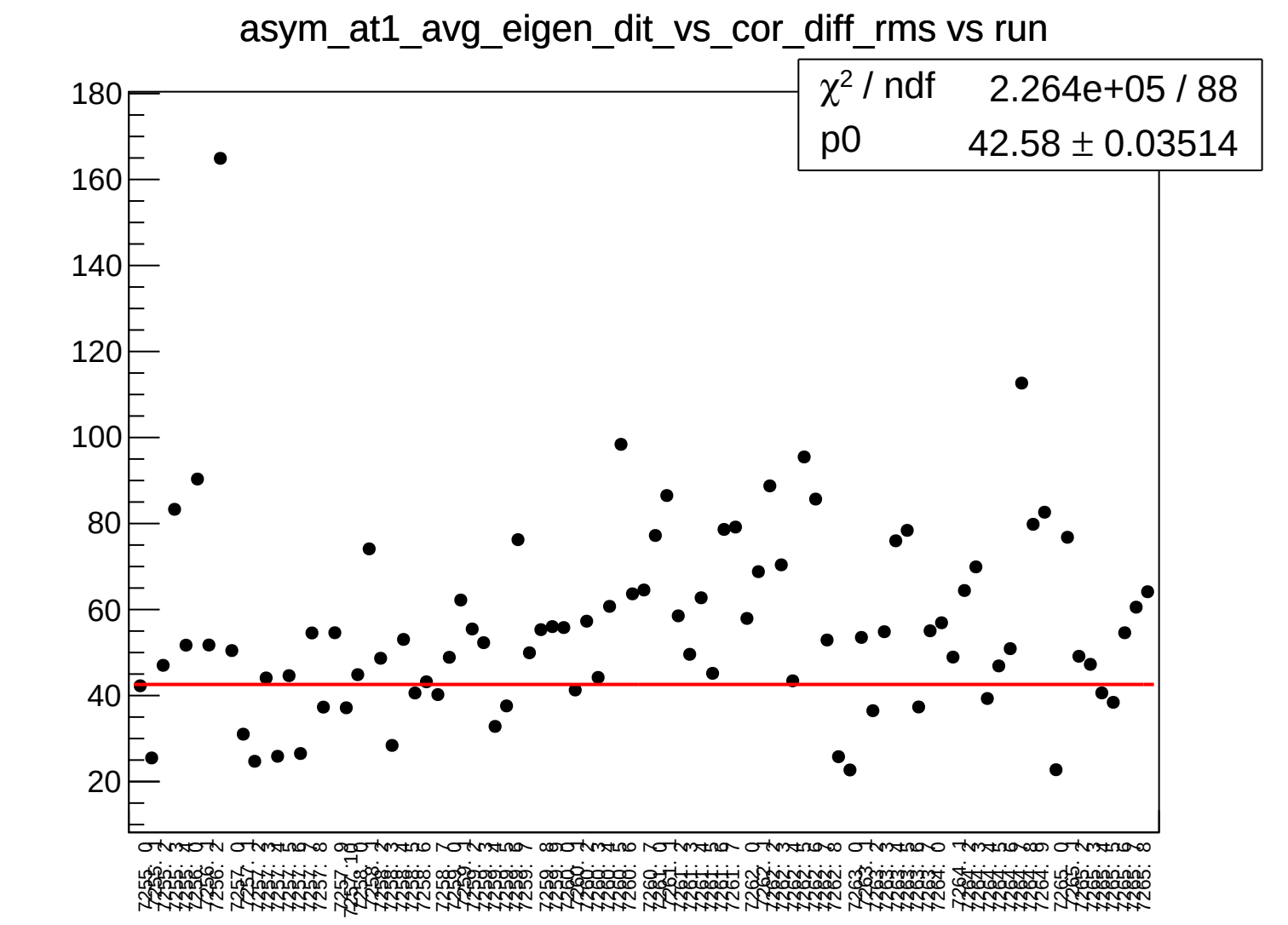

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.28 / 88
p0 −0.002693 ± 0.04969
pull
Entries 89
Mean 13.45
Std Dev 0
pull1D
Entries 89
Mean 0.0537
Std Dev 0.9831

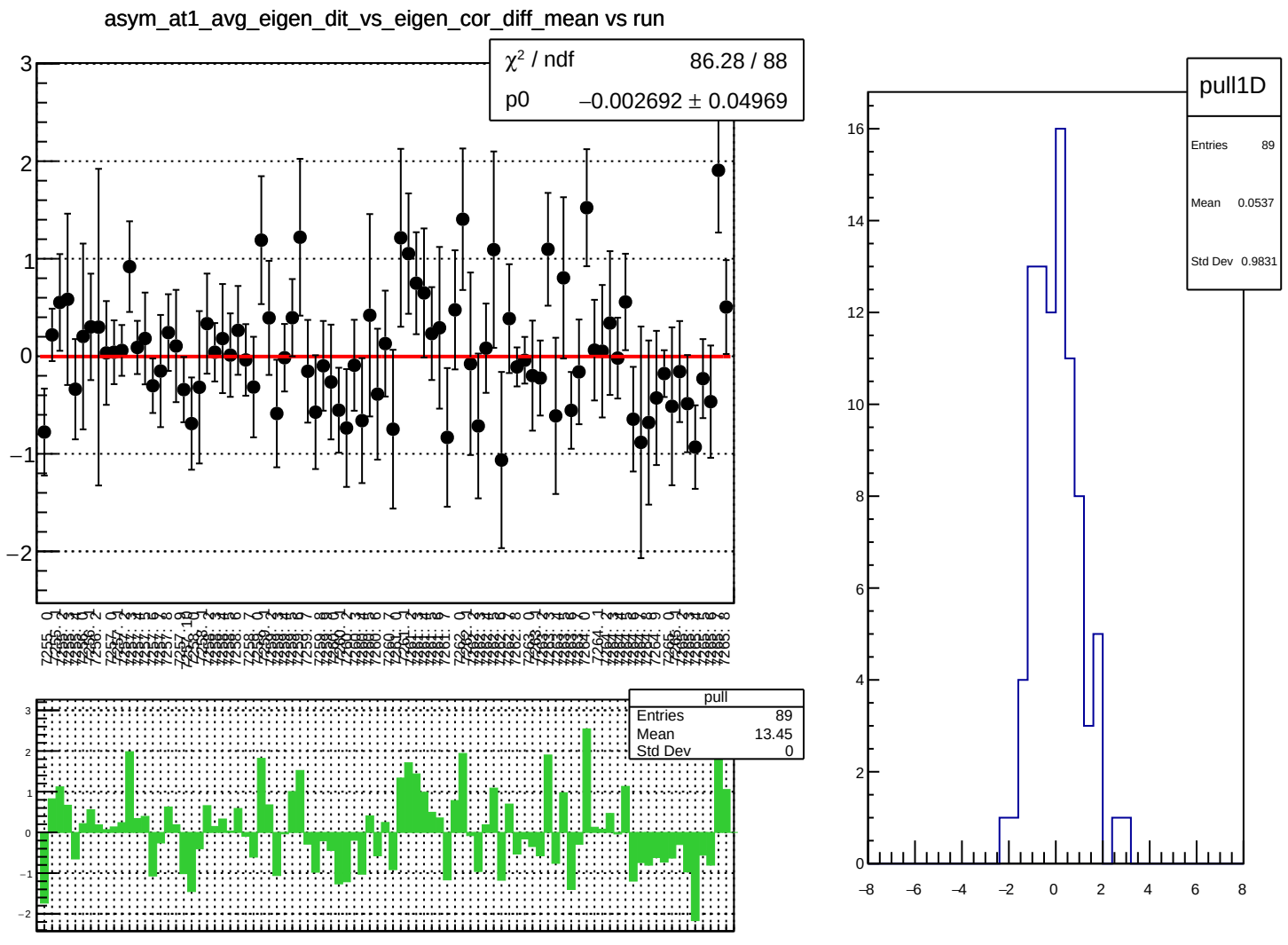

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.264e+05 / 88
p0 42.58 ± 0.03514
180
160
140
120
100
80
60
40
20

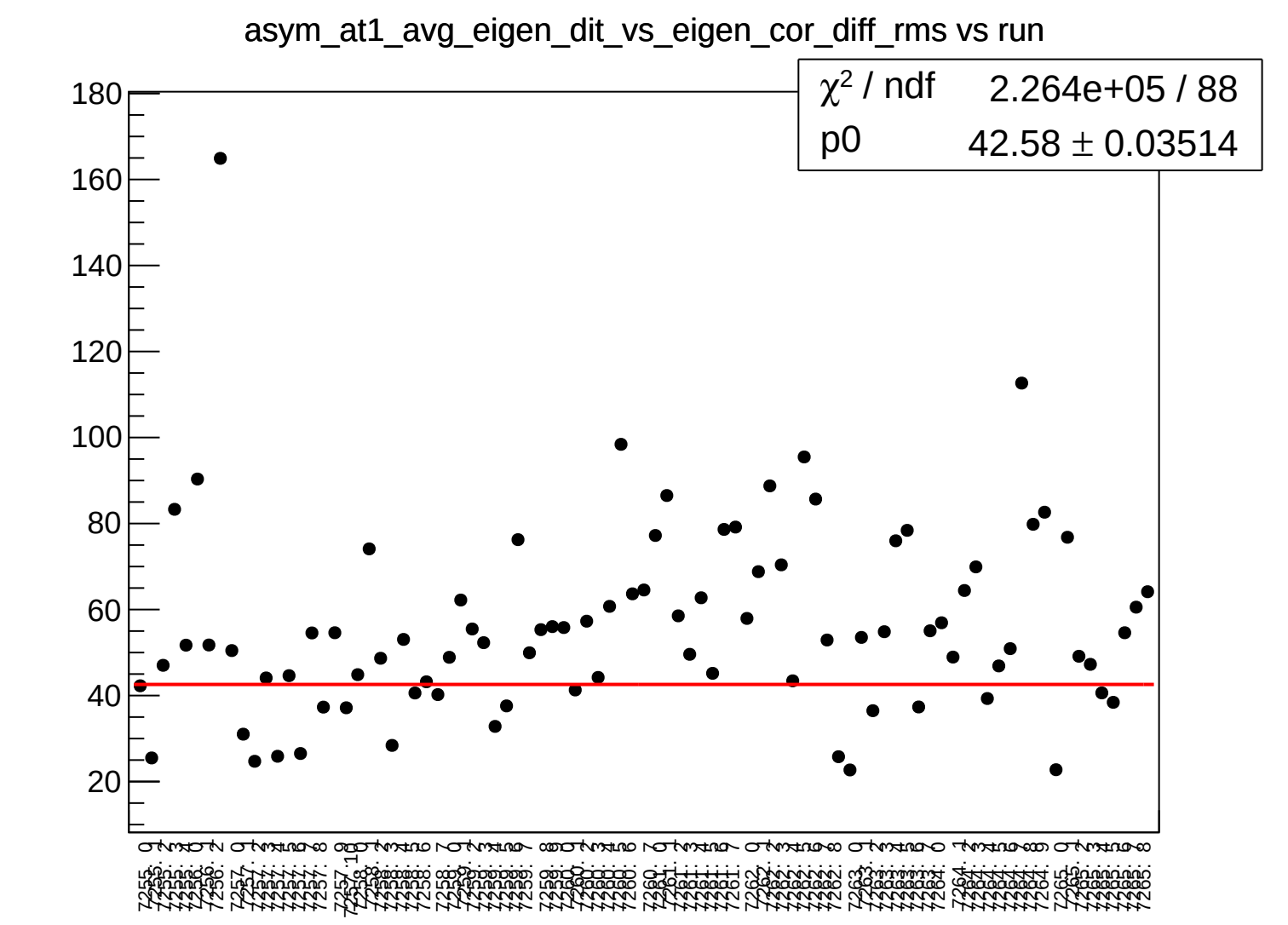

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.72 / 88
p0 2.376e−07 ± 1.237e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean −109.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.01321
Std Dev 0.9813
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

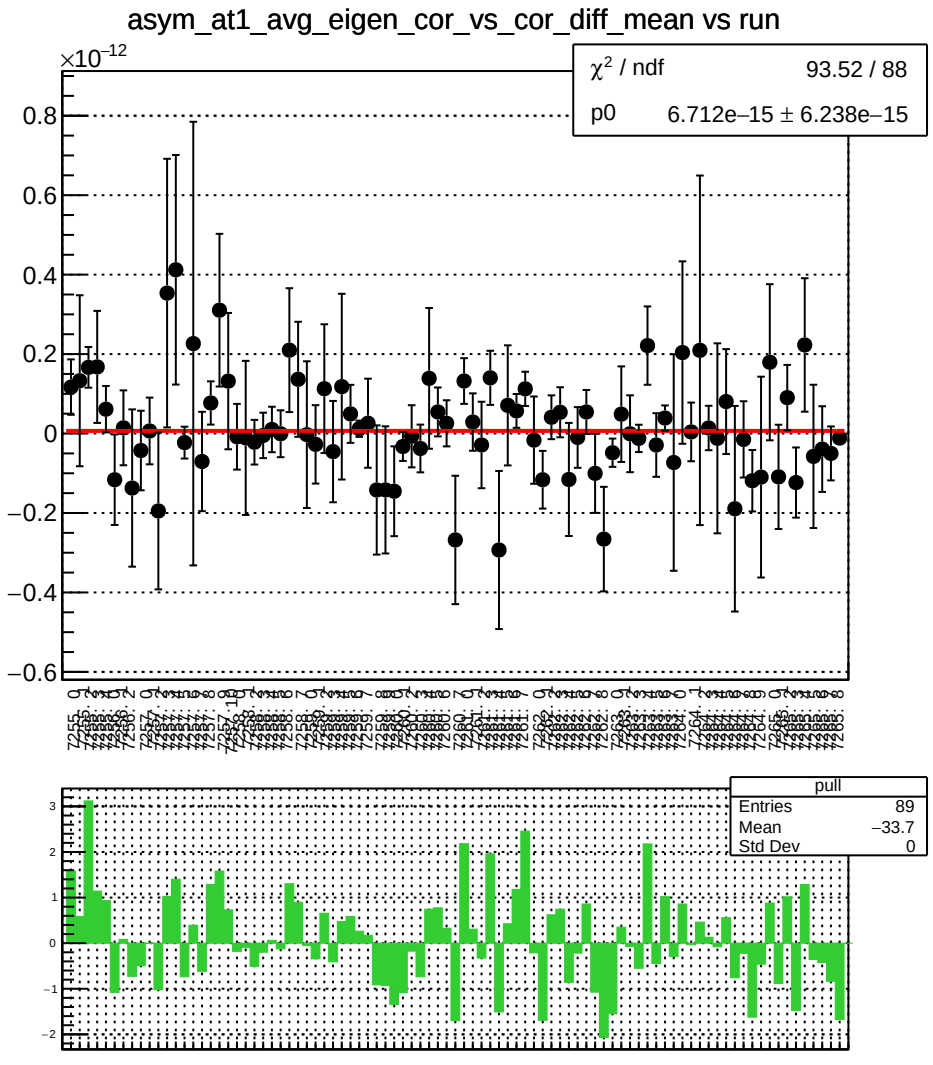

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1720 / 88
p0 0.001139 ± 8.75e–07
0.00125
0.0012
0.00115
0.0011
0.00105

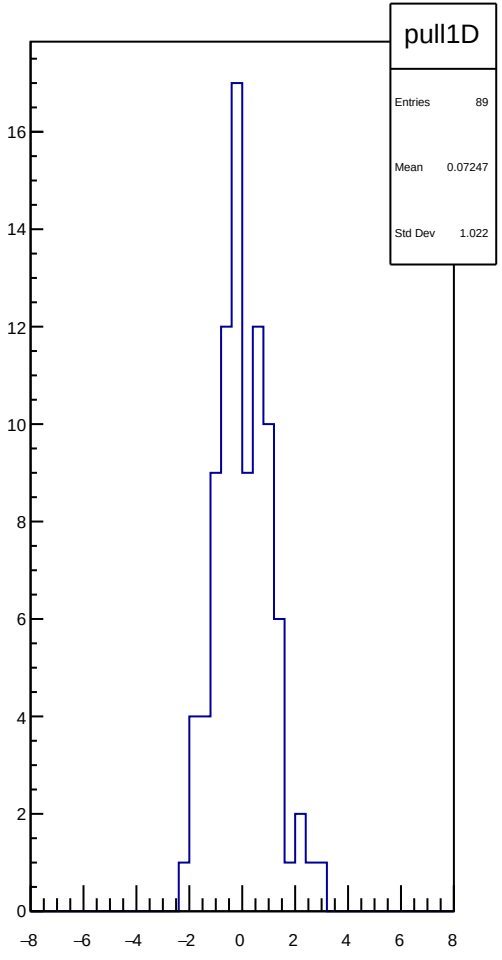

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.28 / 88
p0 −0.002692 ± 0.04969
pull
Entries 89
Mean 13.45
Std Dev 0
pull1D
Entries 89
Mean 0.0537
Std Dev 0.9831

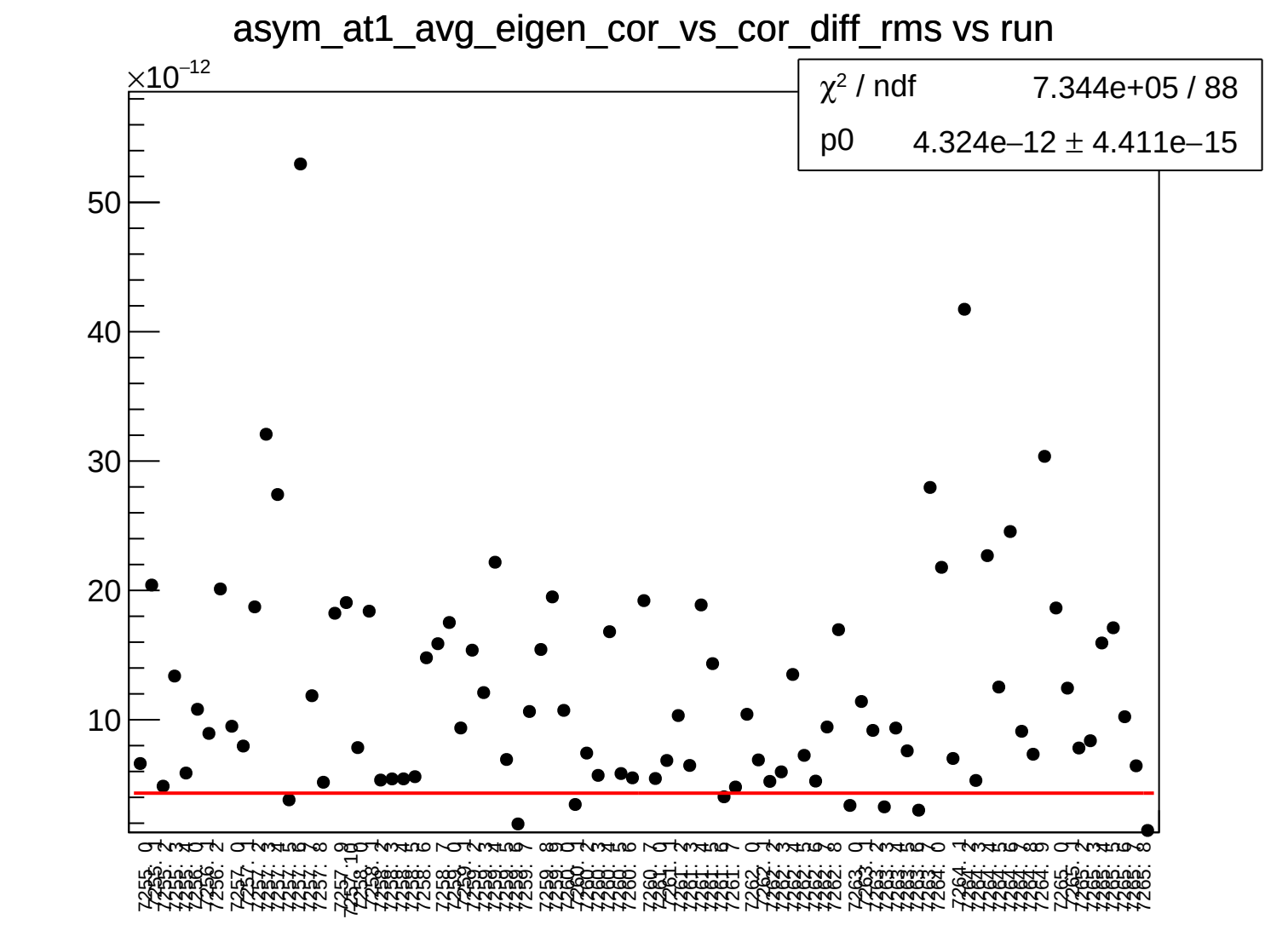

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.264e+05 / 88
p0 42.58 ± 0.03514
180
160
140
120
100
80
60
40
20

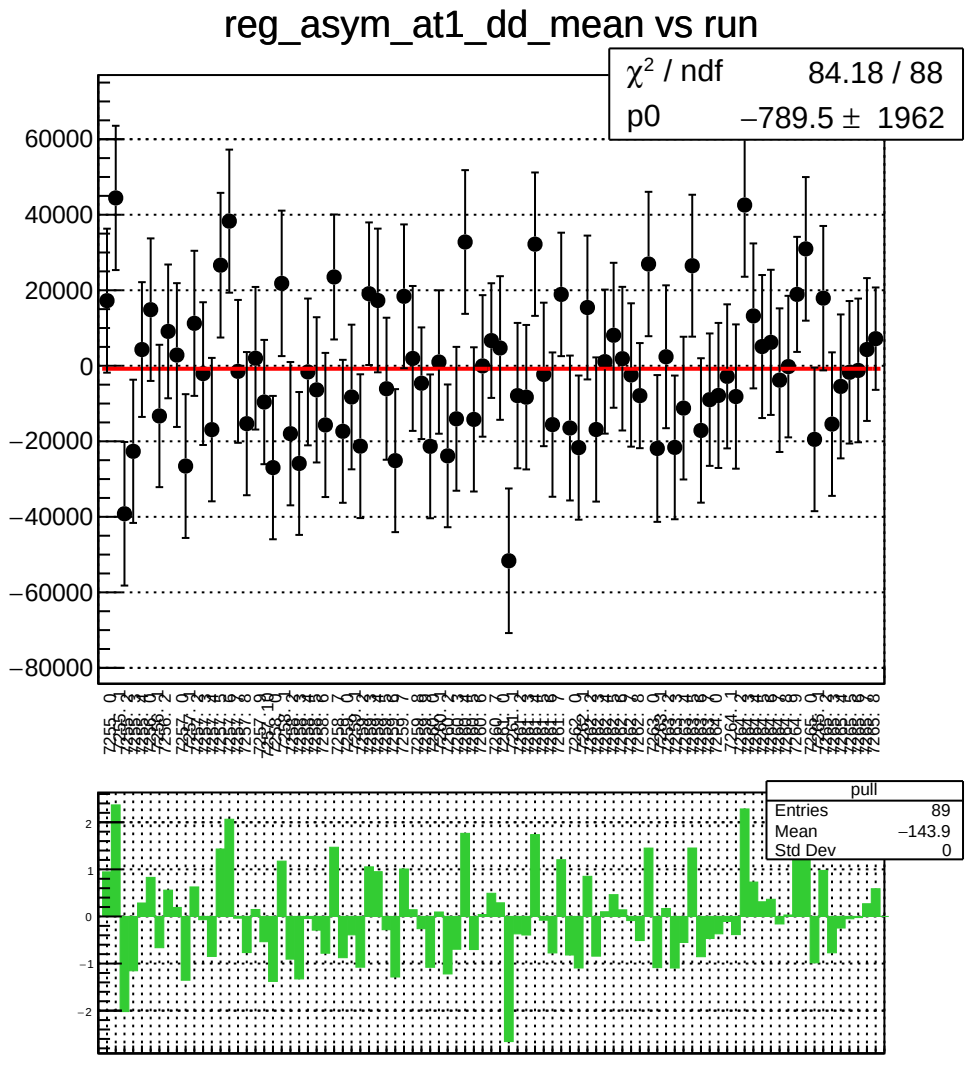

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.28 / 88
p0 −0.002692 ± 0.04969
pull
Entries 89
Mean 13.45
Std Dev 0
pull1D
Entries 89
Mean 0.0537
Std Dev 0.9831

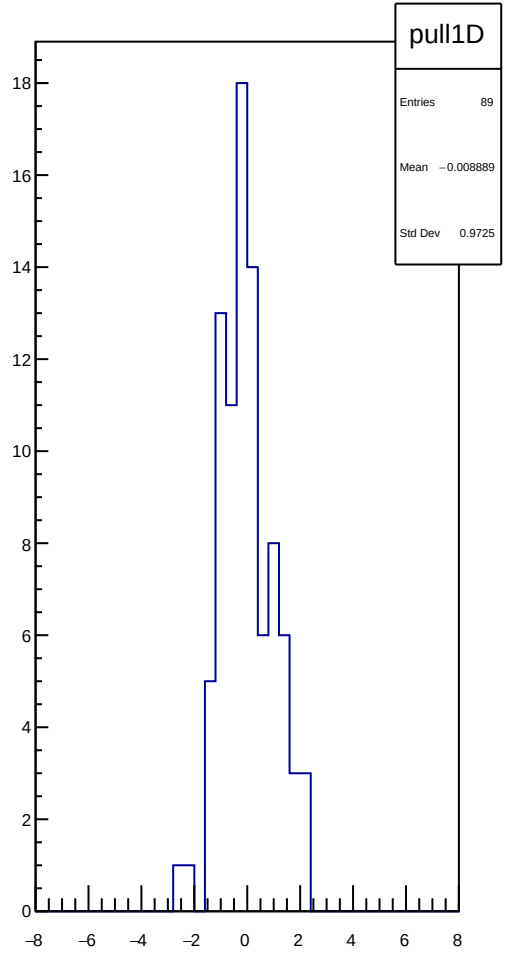

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.264e+05 / 88
p0 42.58 ± 0.03514
180
160
140
120
100
80
60
40
20

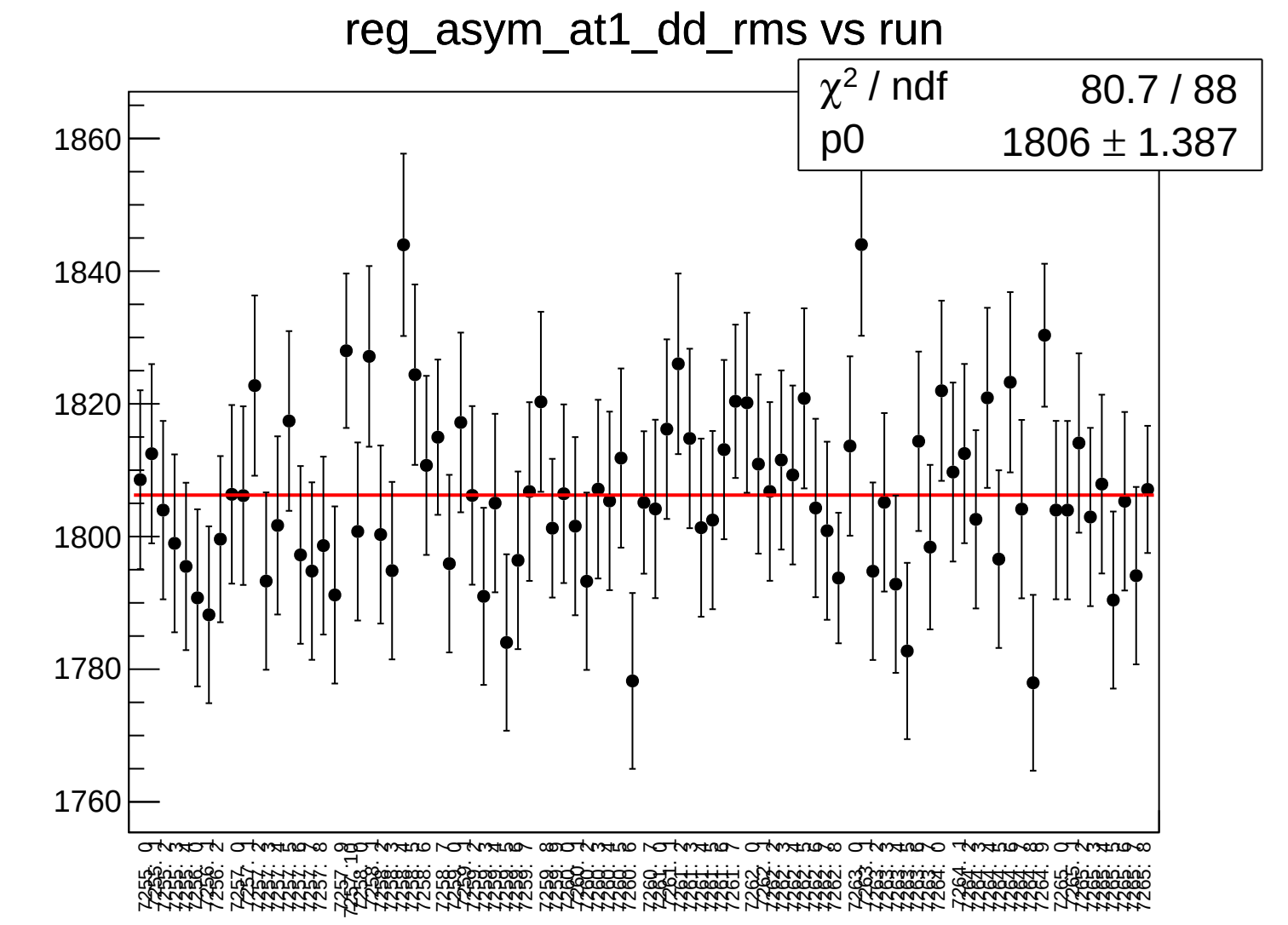

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.52 / 88
p0 6.712e−15 ± 6.238e−15
pull
Entries 89
Mean −33.7
Std Dev 0

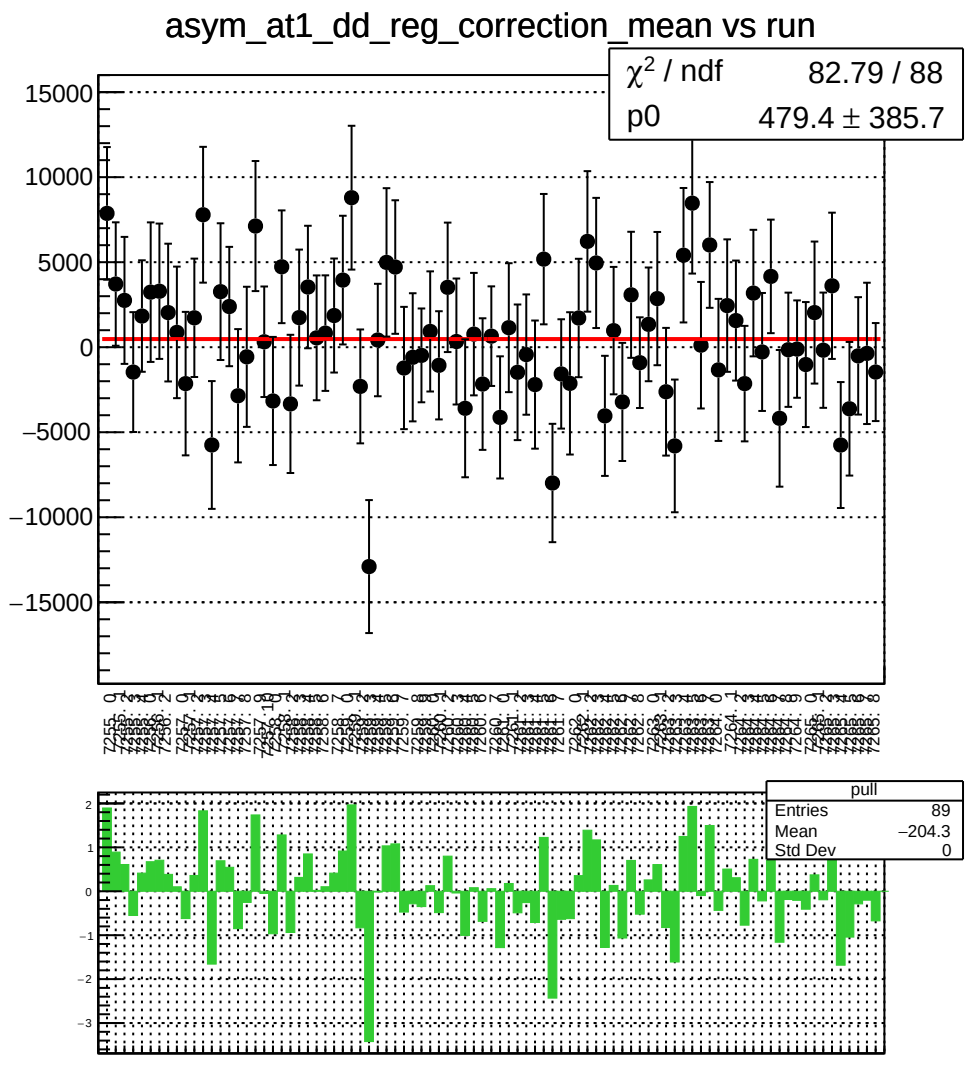

pull1D
Entries 89
Mean 0.07247
Std Dev 1.022

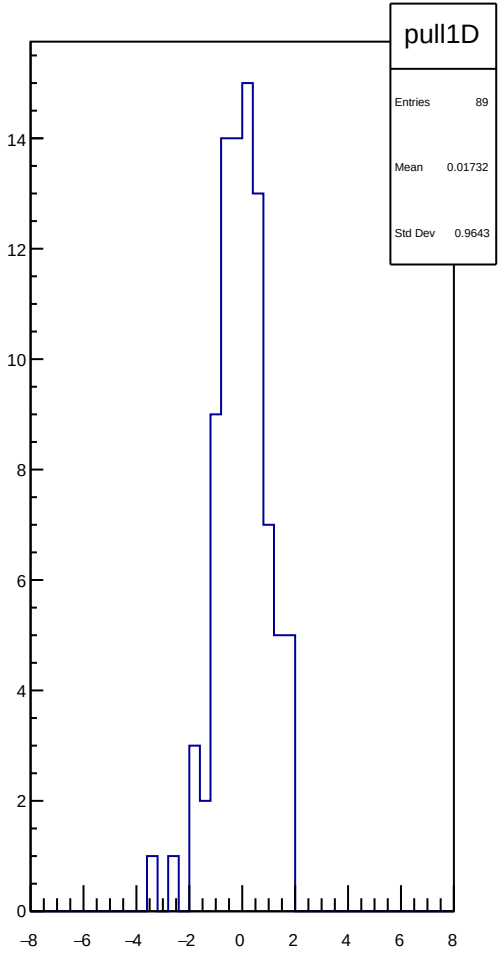

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.344e+05 / 88
p0 4.324e−12 ± 4.411e−15
50
40
30
20
10

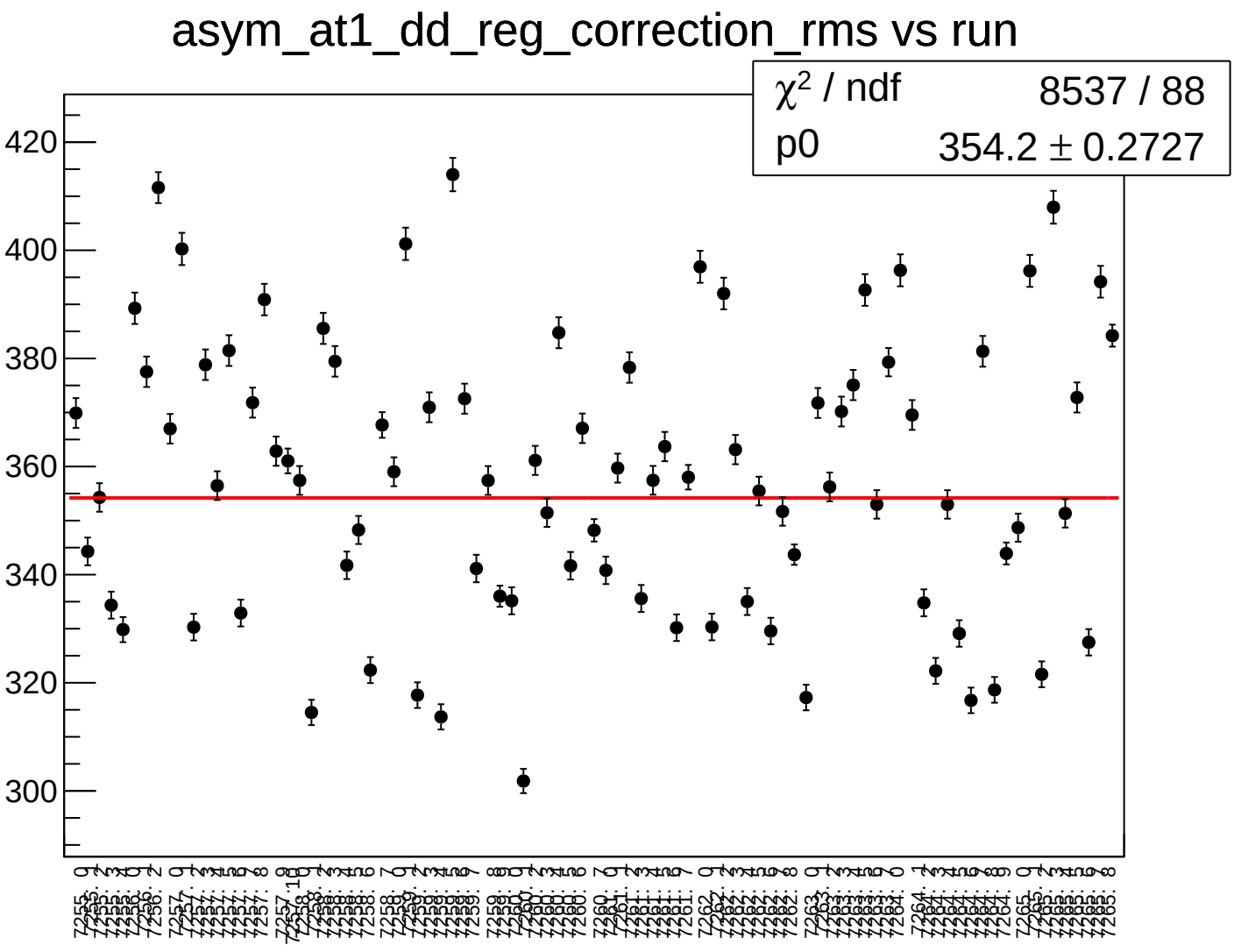

reg_asym_at1_dd_mean vs run
χ² / ndf 84.18 / 88
p0 −789.5 ± 1962
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −143.9
Std Dev 0
2
1
0
−1
−2

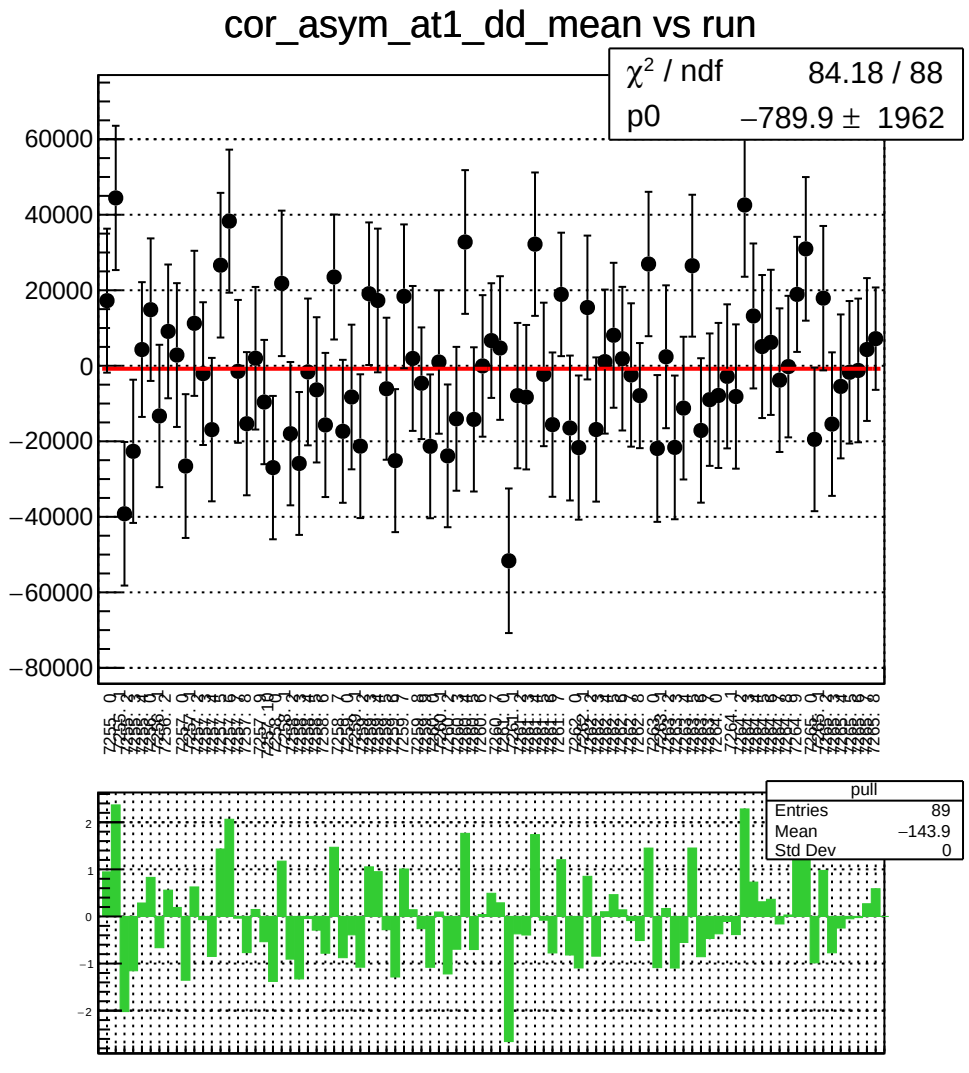

pull1D
Entries 89
Mean −0.008889
Std Dev 0.9725
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

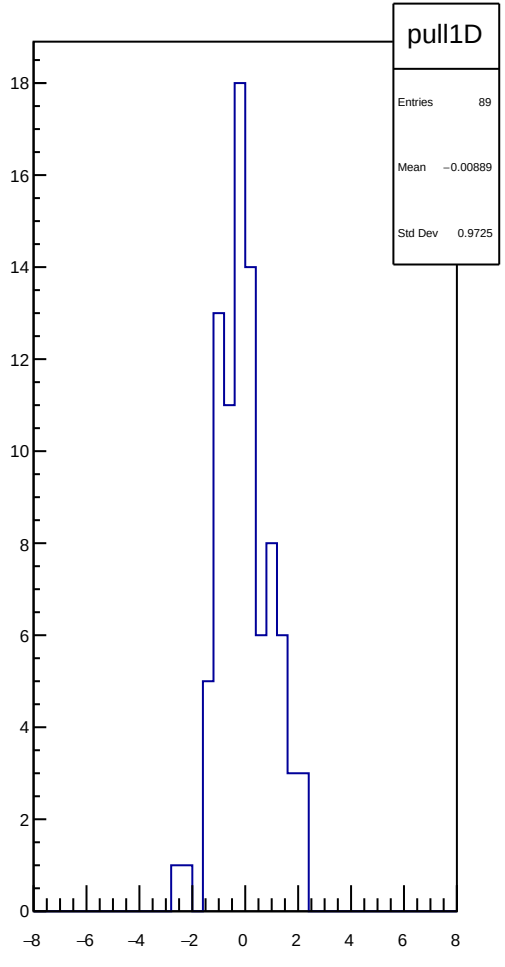

reg_asym_at1_dd_rms vs run
χ^2 / ndf 80.7 / 88
p0 1806 ± 1.387
1860
1840
1820
1800
1780
1760

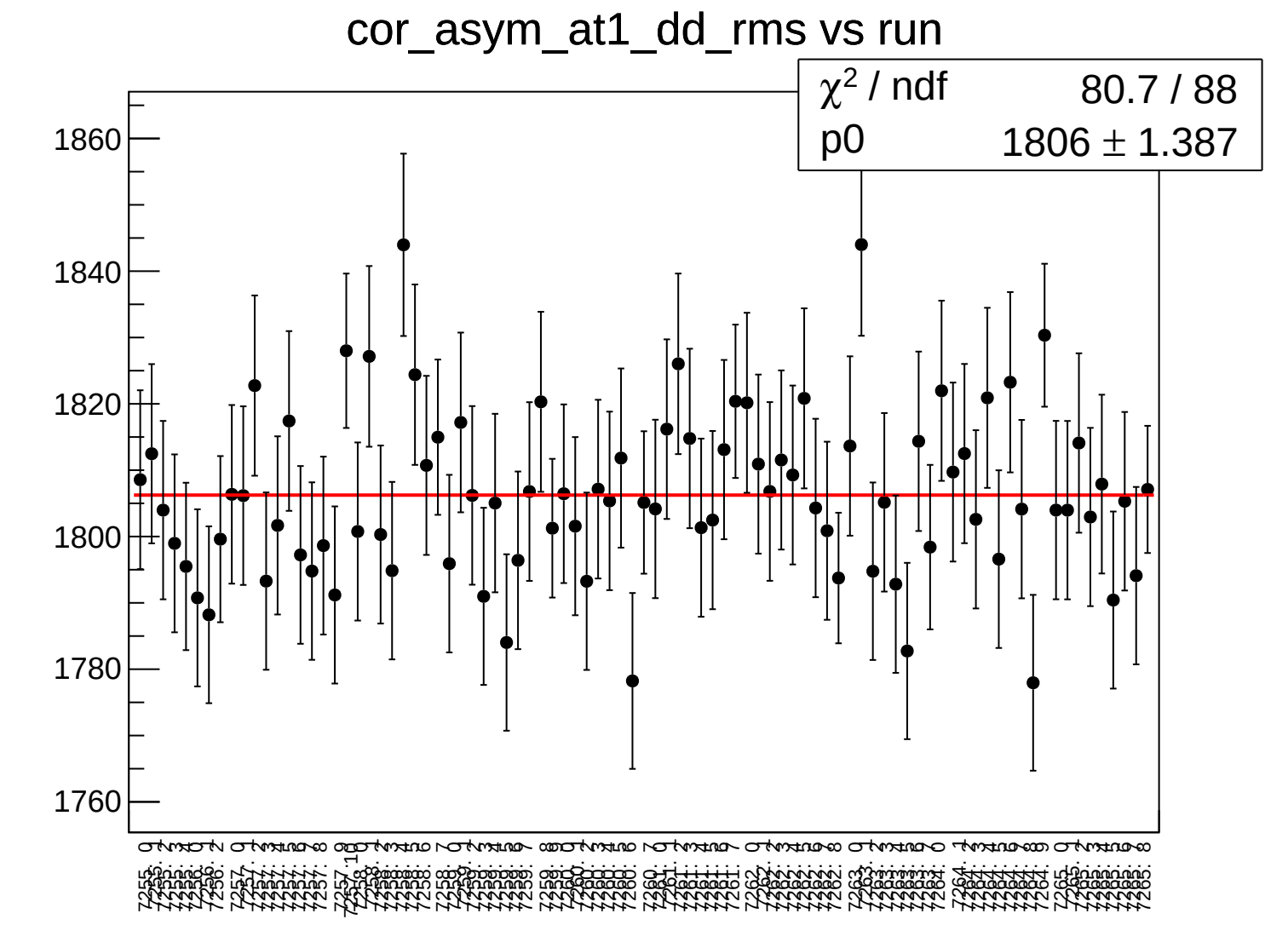

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 82.79 / 88
p0 479.4 ± 385.7
pull
Entries 89
Mean −204.3
Std Dev 0

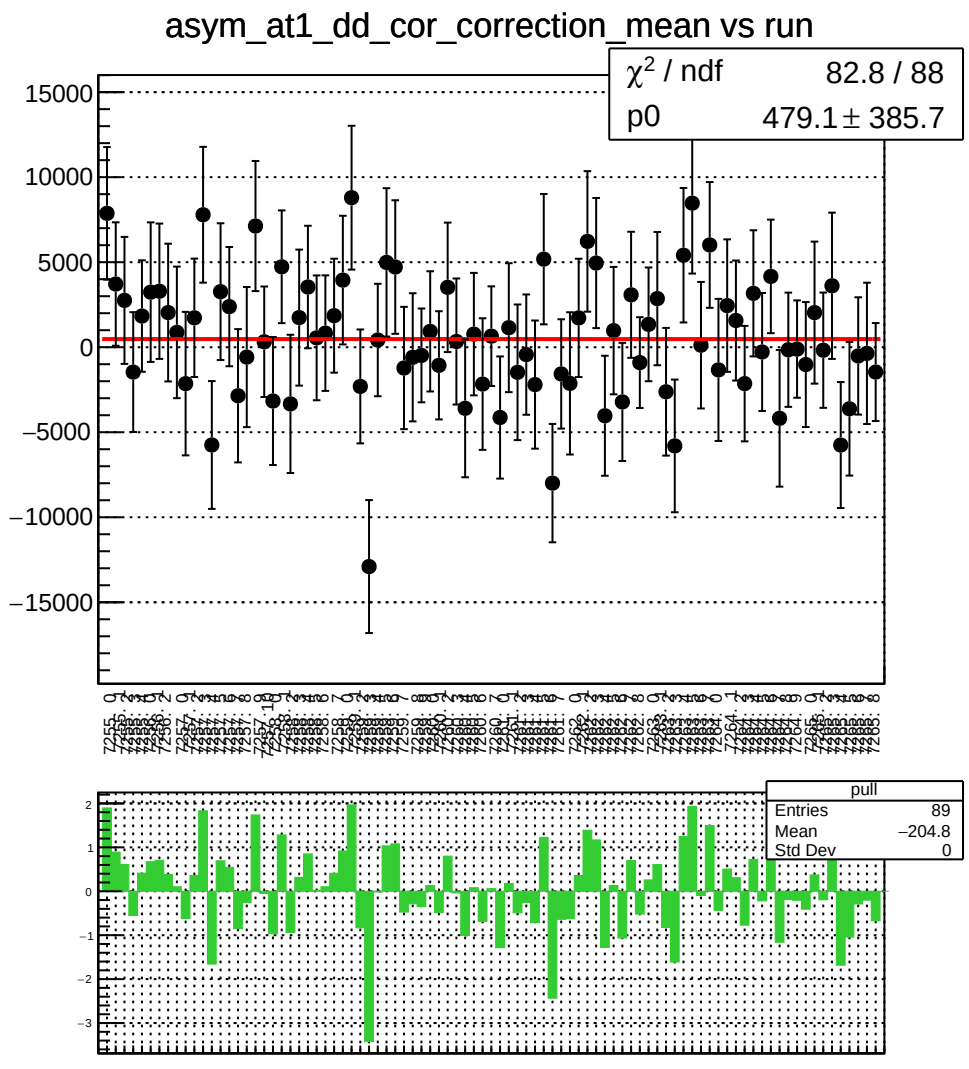

pull1D
Entries 89
Mean 0.01732
Std Dev 0.9643

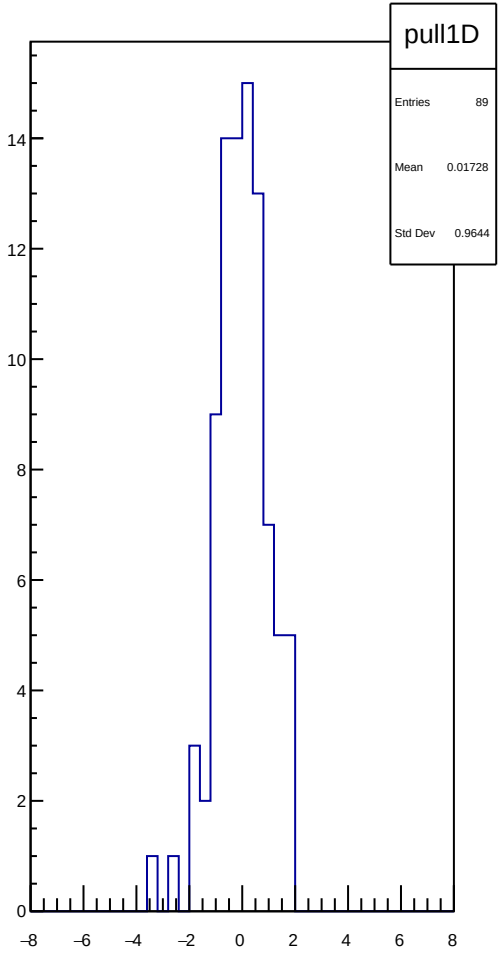

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 8537 / 88
p0 354.2 ± 0.2727
420
400
380
360
340
320
300

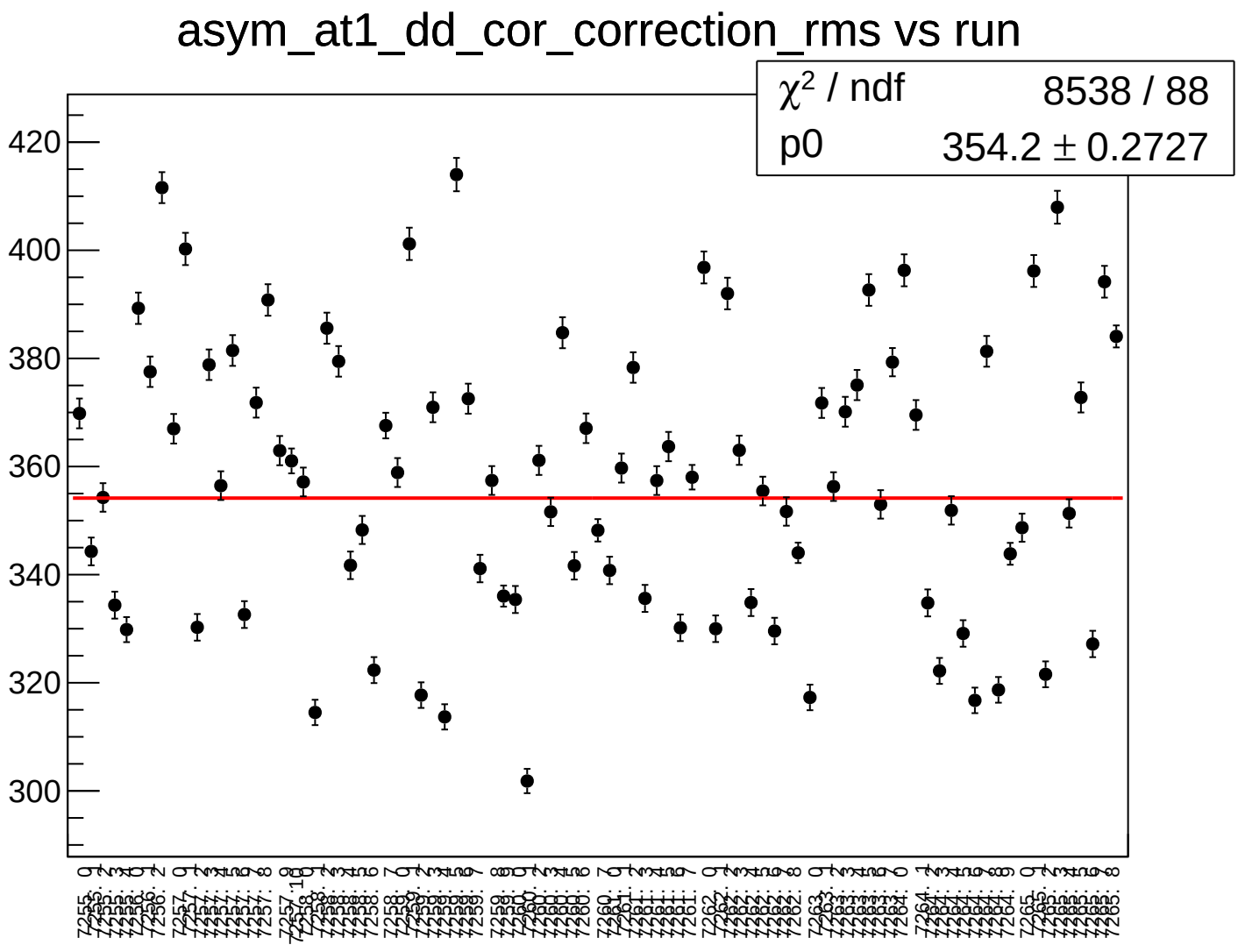

cor_asym_at1_dd_mean vs run
χ² / ndf 84.18 / 88
p0 −789.9 ± 1962
pull
Entries 89
Mean −143.9
Std Dev 0

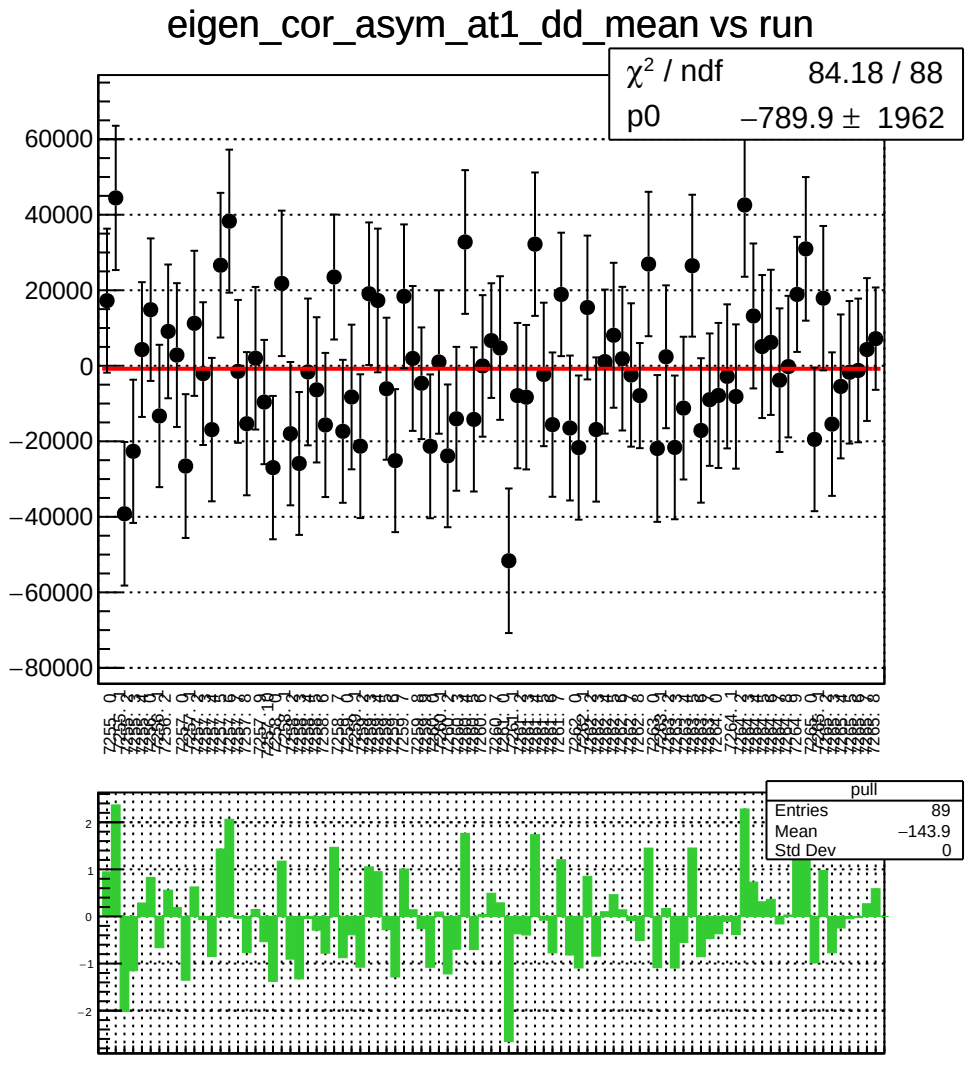

pull1D
Entries 89
Mean −0.00889
Std Dev 0.9725

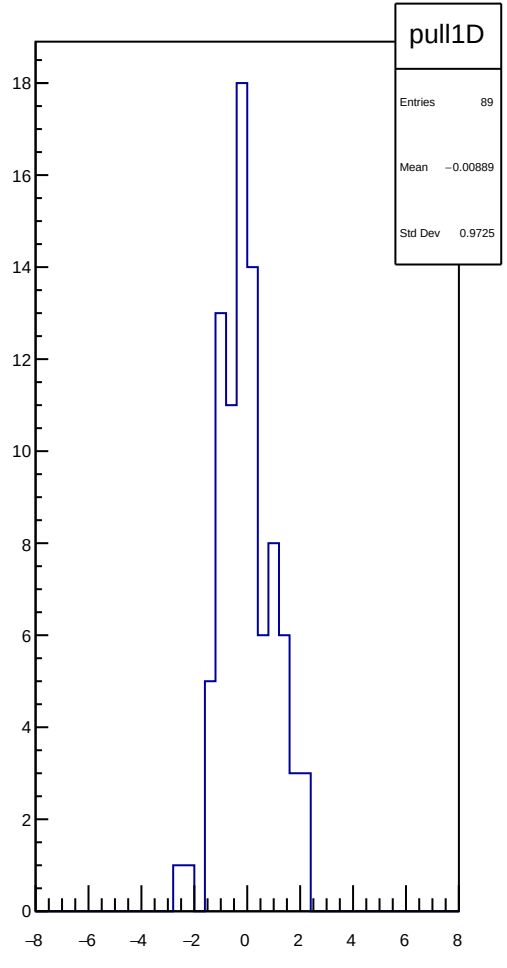

cor_asym_at1_dd_rms vs run
χ² / ndf 80.7 / 88
p0 1806 ± 1.387
1860
1840
1820
1800
1780
1760

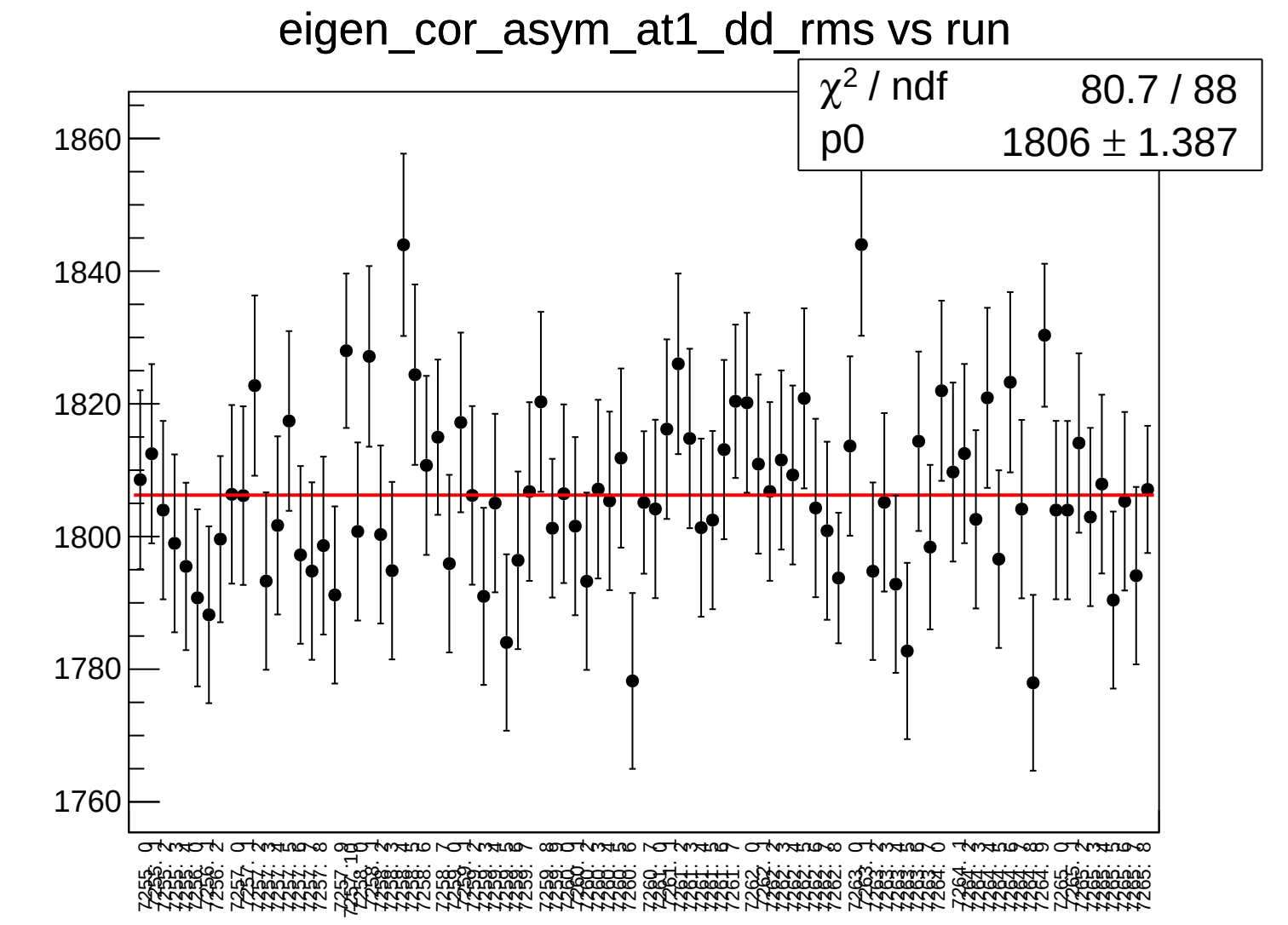

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 82.8 / 88
p0 479.1 ± 385.7
pull
Entries 89
Mean −204.8
Std Dev 0

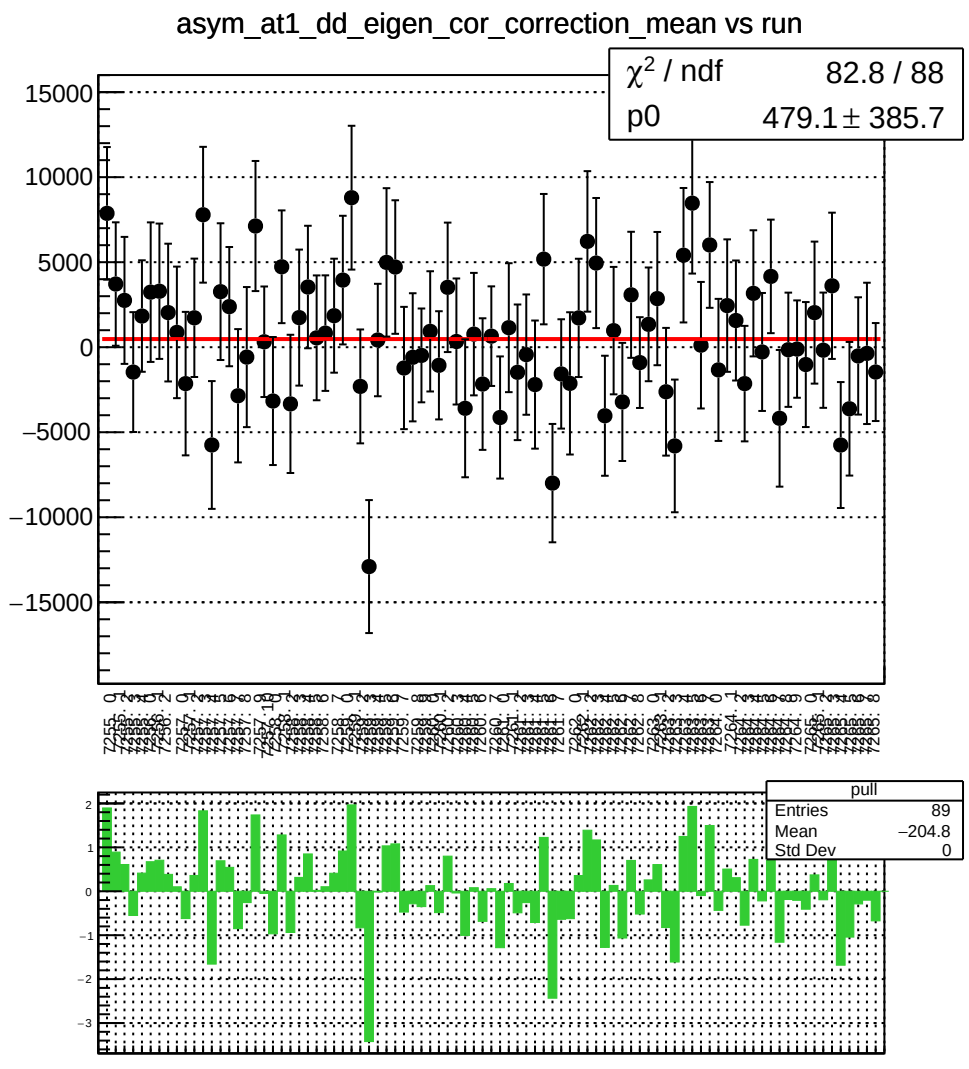

pull1D
Entries 89
Mean 0.01728
Std Dev 0.9644

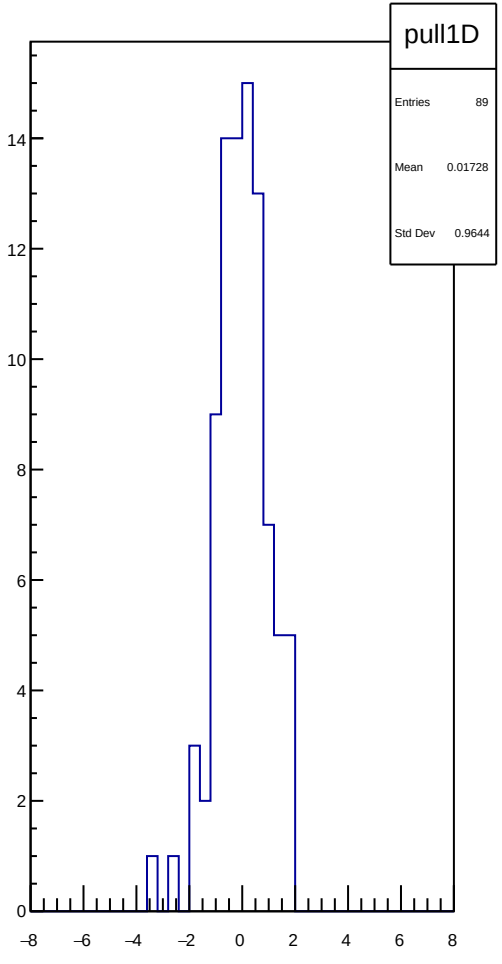

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 8538 / 88
p0 354.2 ± 0.2727
420
400
380
360
340
320
300

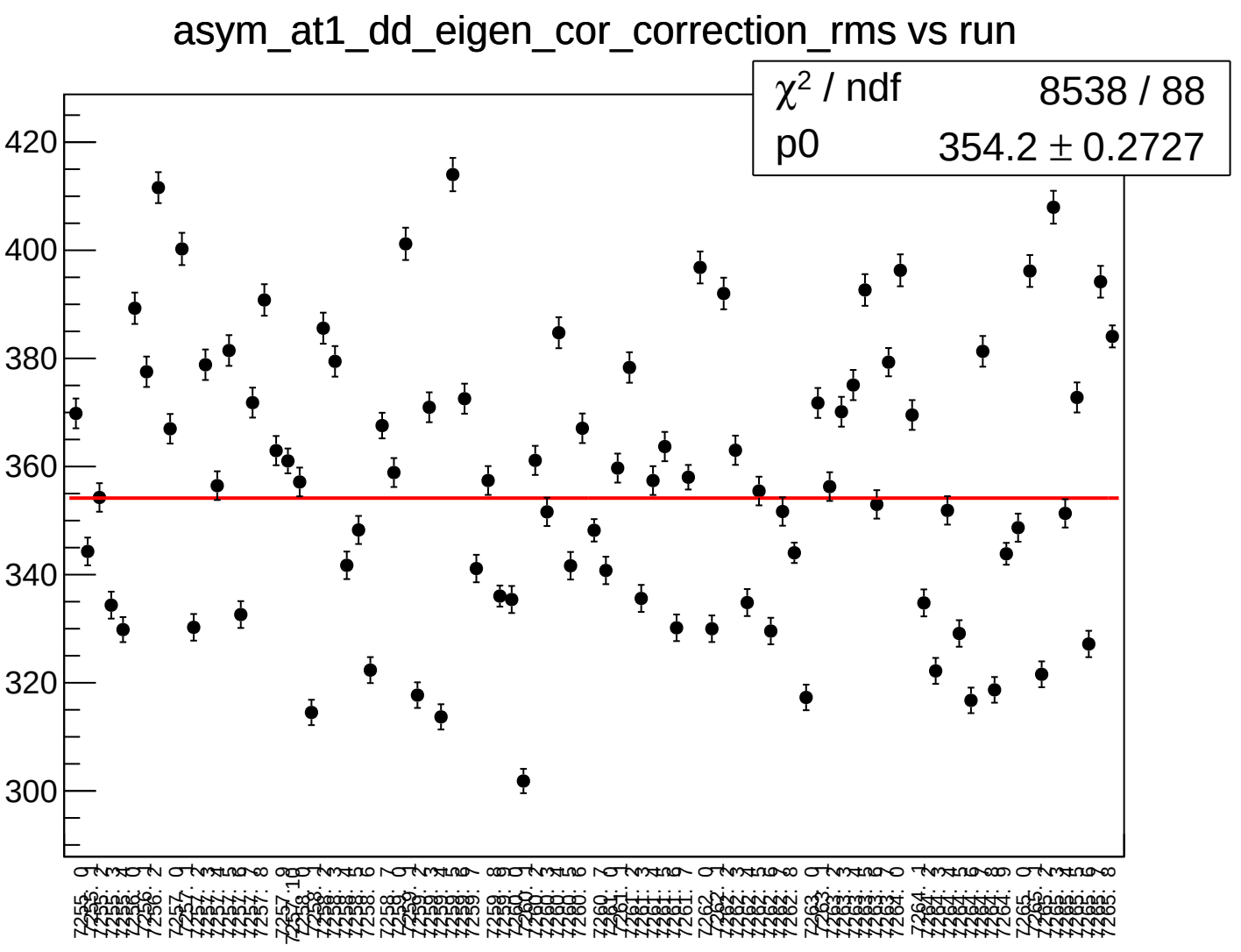

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 84.18 / 88
p0 −789.9 ± 1962
pull
Entries 89
Mean −143.9
Std Dev 0

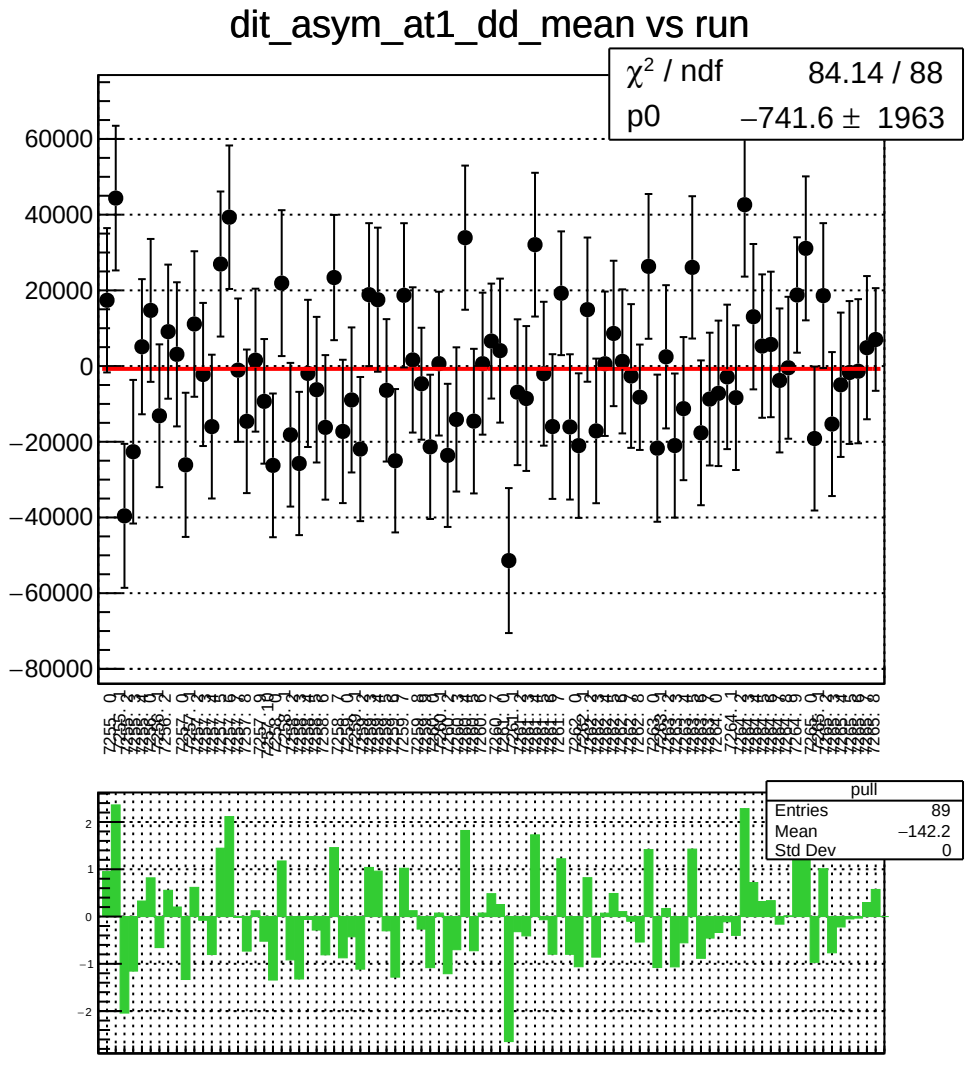

pull1D
Entries 89
Mean −0.00889
Std Dev 0.9725

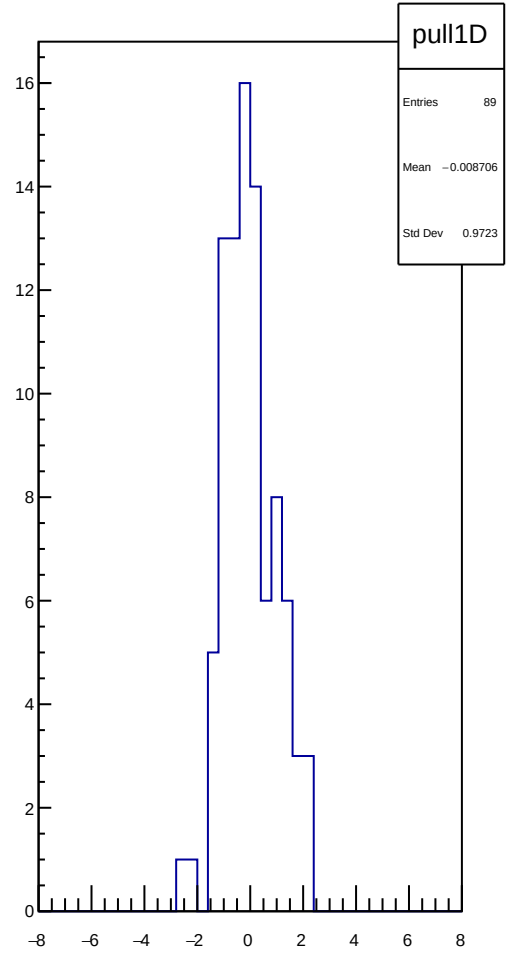

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 80.7 / 88
p0 1806 ± 1.387
1860
1840
1820
1800
1780
1760

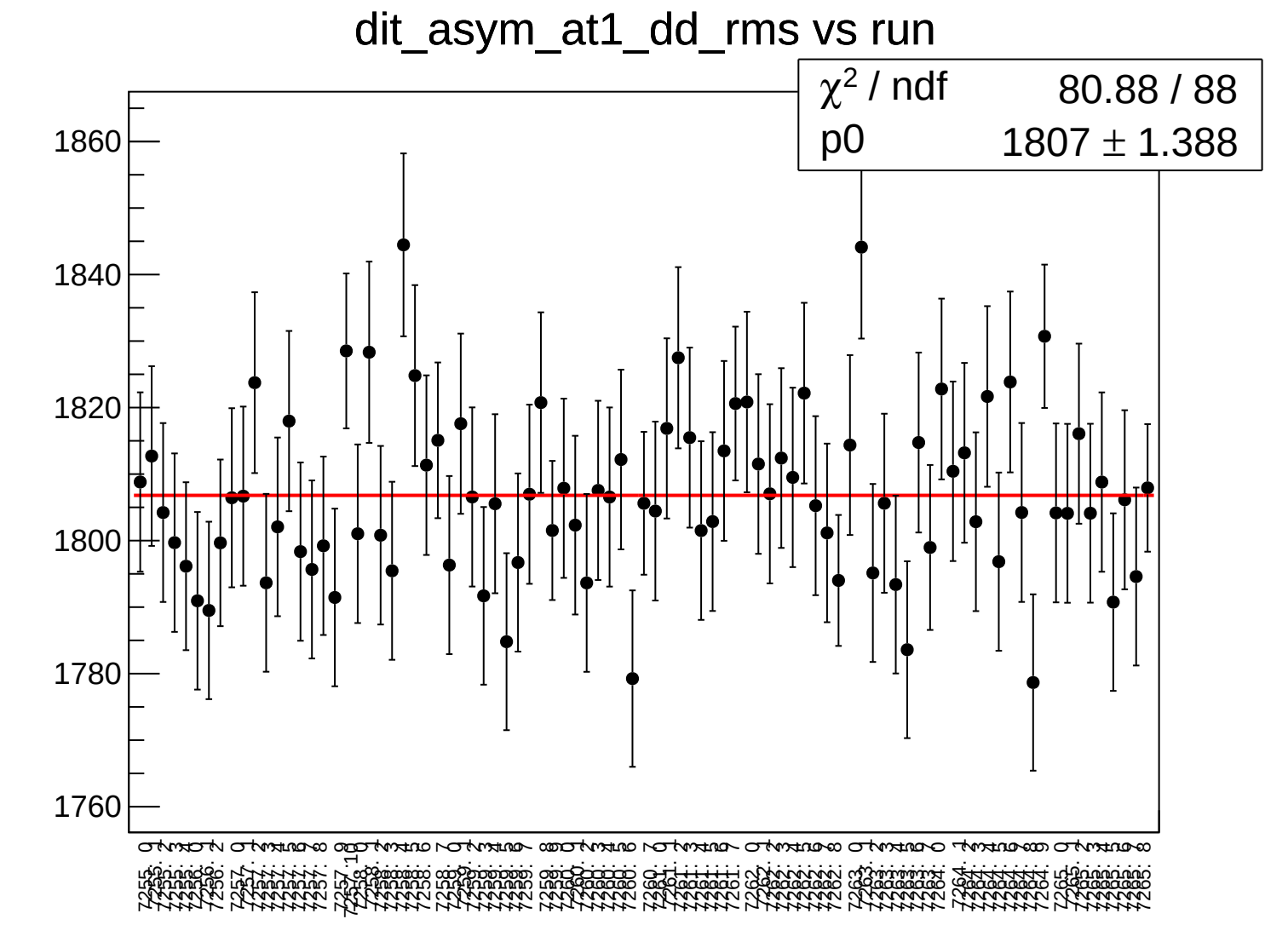

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.8 / 88
p0 479.1 ± 385.7
pull
Entries 89
Mean −204.8
Std Dev 0

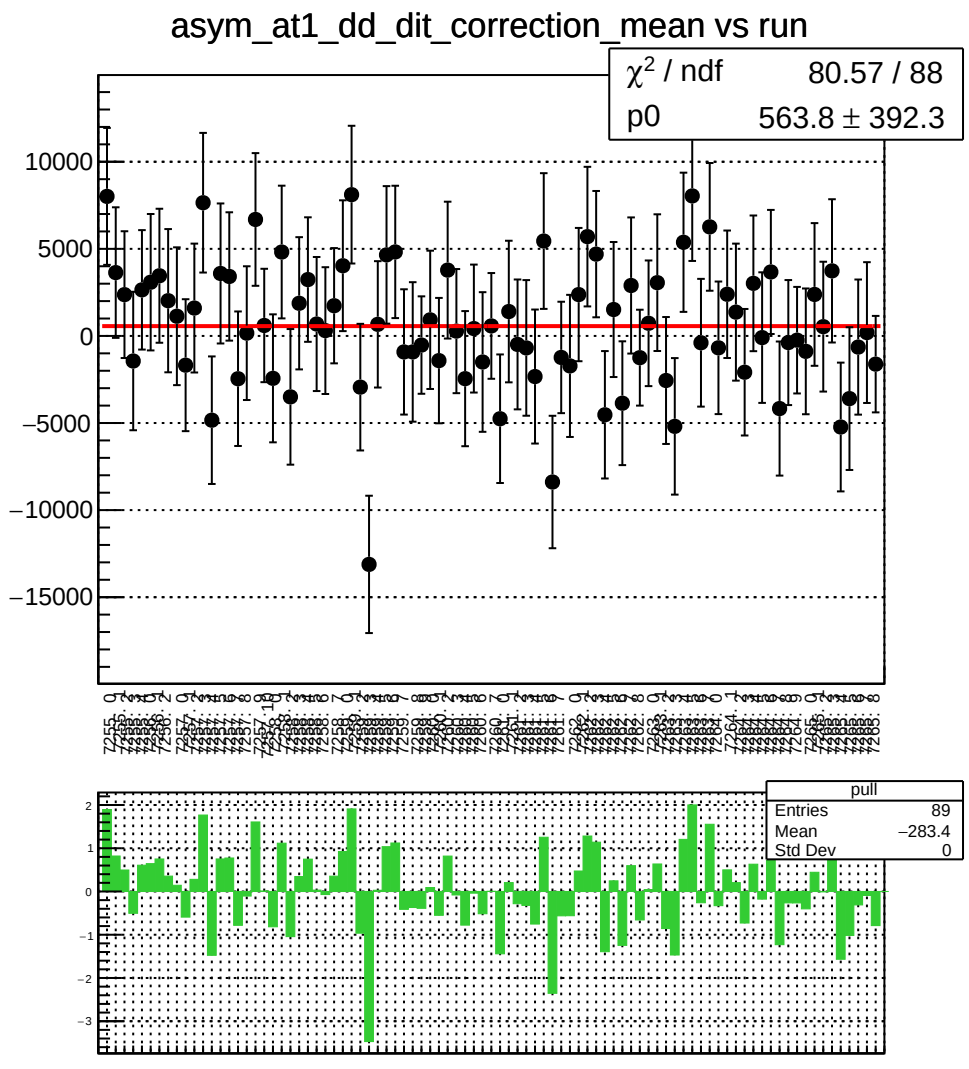

pull1D
Entries 89
Mean 0.01728
Std Dev 0.9644

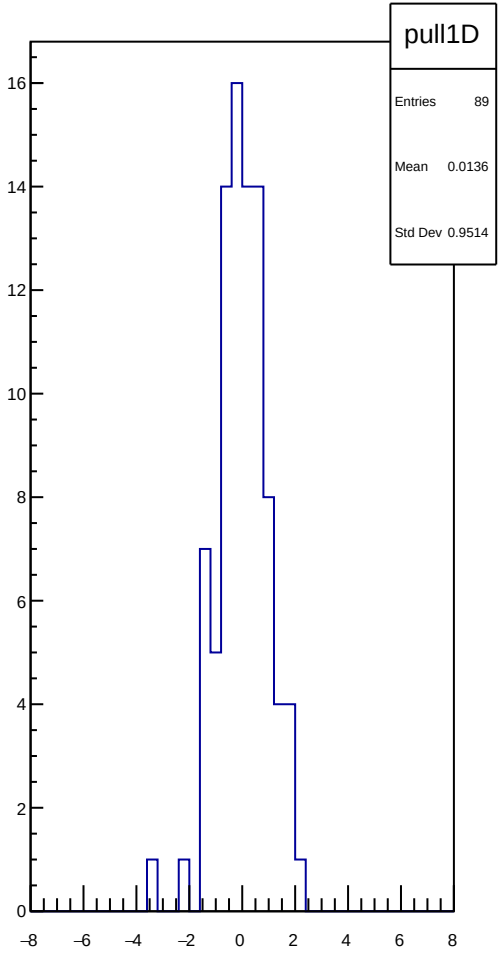

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 8538 / 88
p0 354.2 ± 0.2727
420
400
380
360
340
320
300

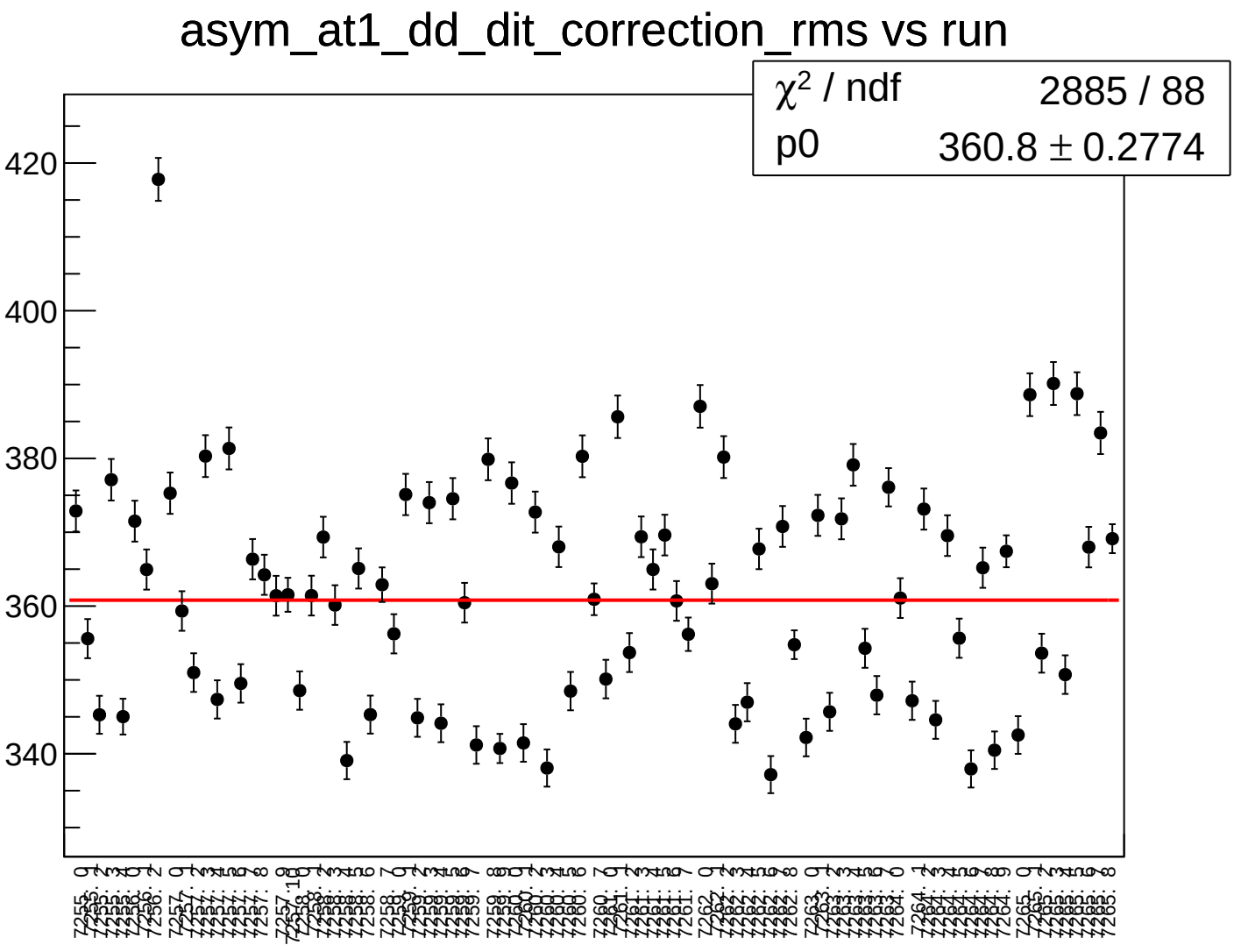

dit_asym_at1_dd_mean vs run
χ² / ndf 84.14 / 88
p0 −741.6 ± 1963
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −142.2
Std Dev 0
2
1
0
−1
−2

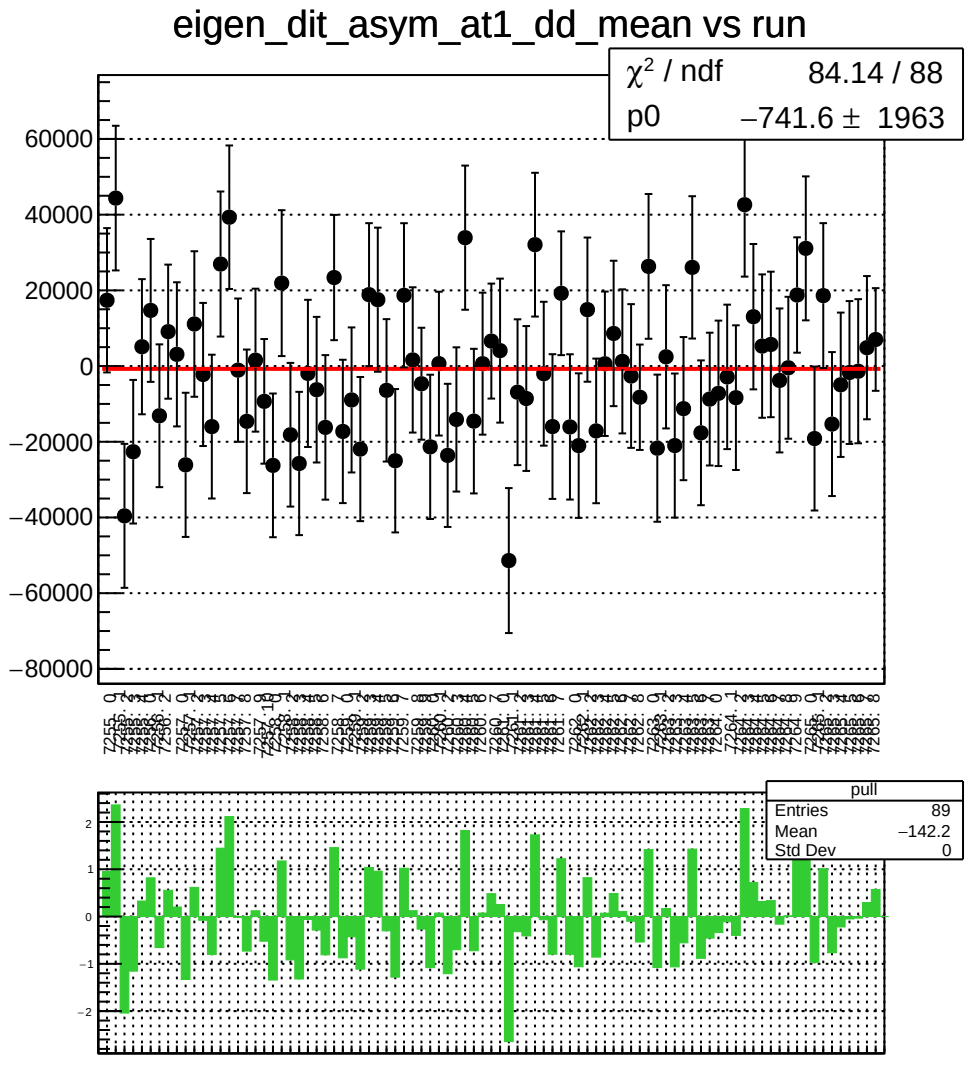

pull1D
Entries 89
Mean −0.008706
Std Dev 0.9723
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

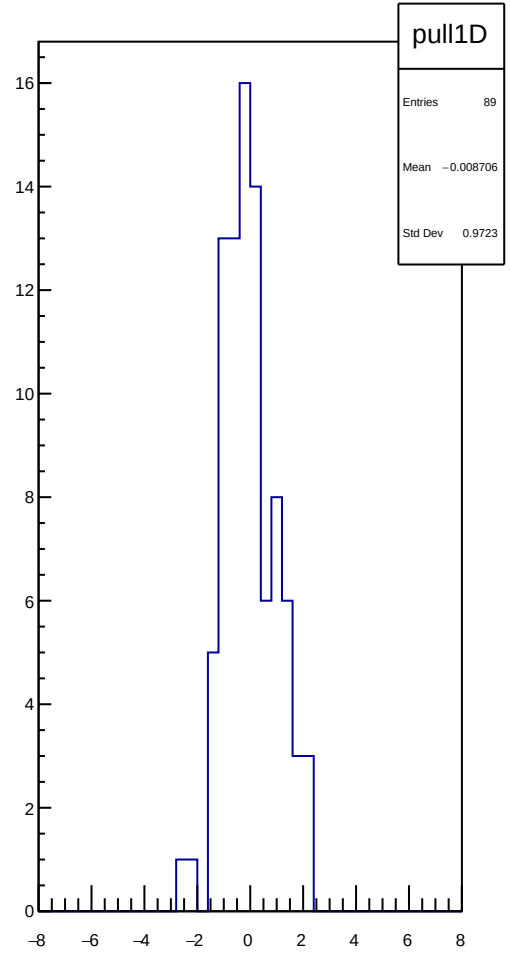

dit_asym_at1_dd_rms vs run
χ² / ndf 80.88 / 88
p0 1807 ± 1.388
1860
1840
1820
1800
1780
1760

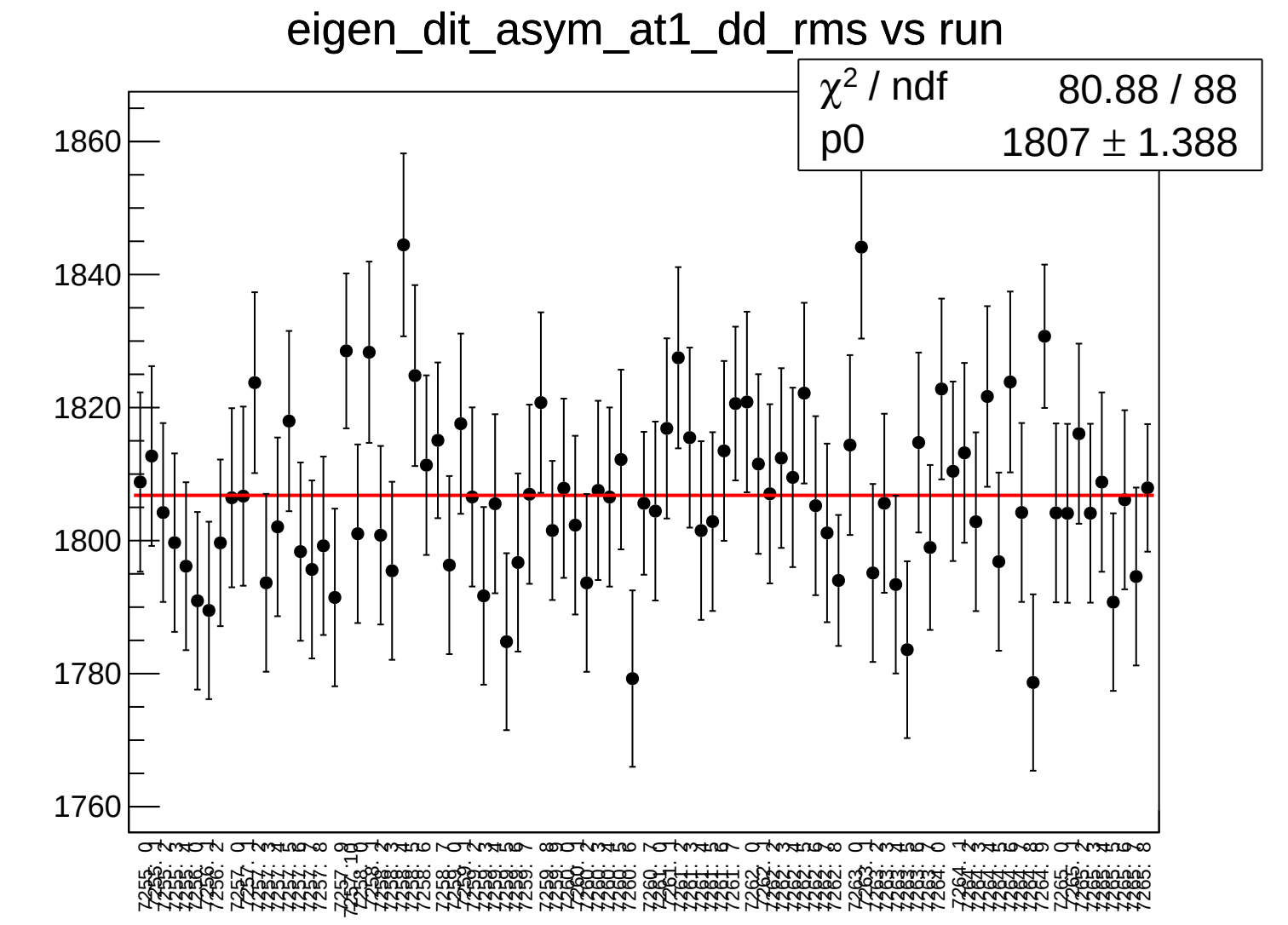

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 80.57 / 88
p0 563.8 ± 392.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −283.4
Std Dev 0
2
1
0
−1
−2
−3

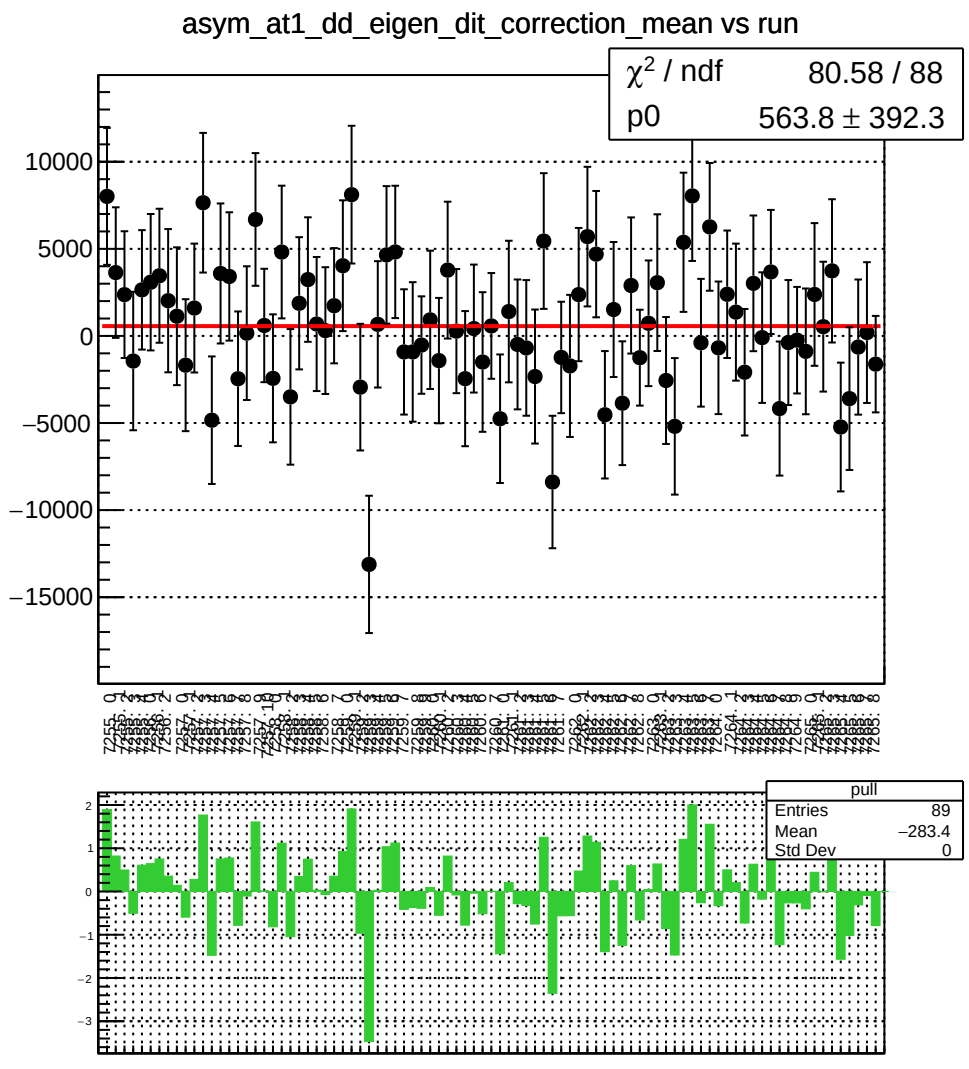

pull1D
Entries 89
Mean 0.0136
Std Dev 0.9514
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

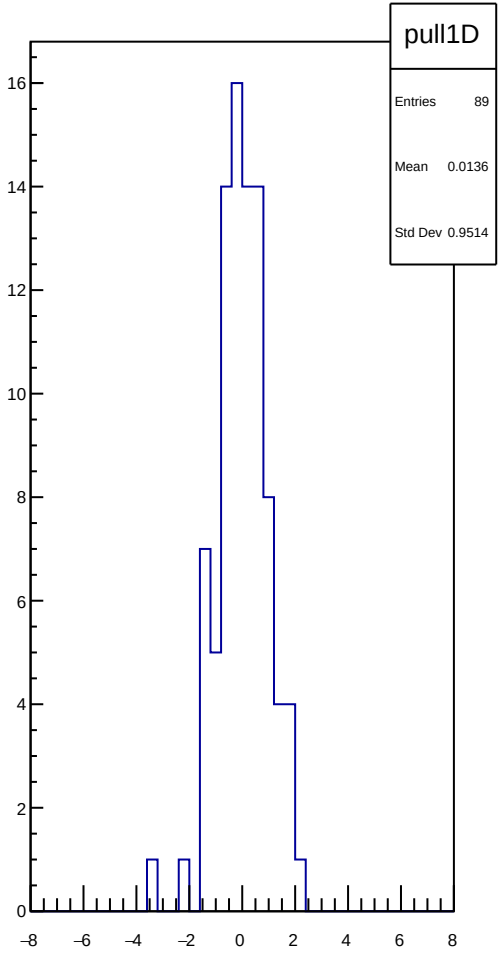

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 2885 / 88
p0 360.8 ± 0.2774
420
400
380
360
340

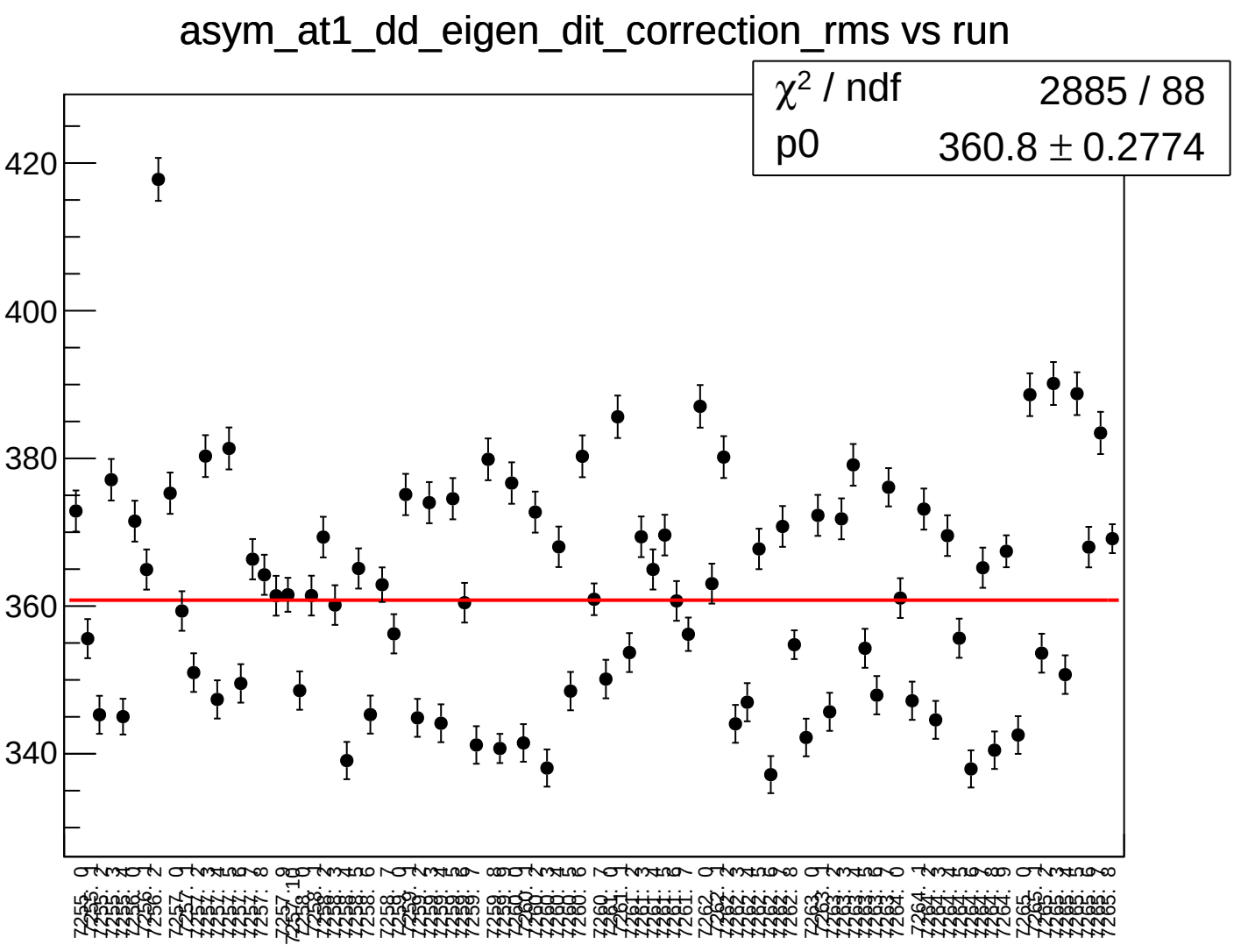

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 84.14 / 88
p0 −741.6 ± 1963
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −142.2
Std Dev 0
2
1
0
−1
−2

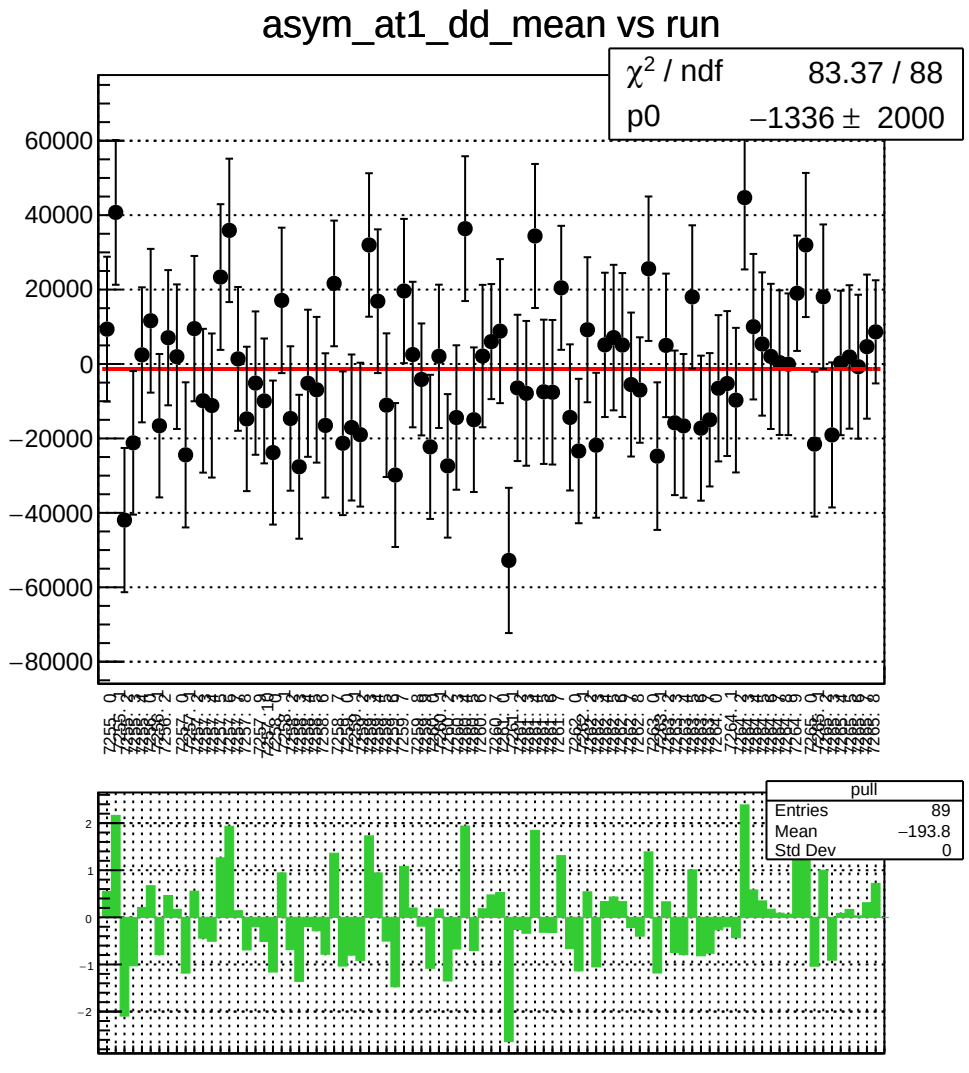

pull1D
Entries 89
Mean −0.008706
Std Dev 0.9723
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

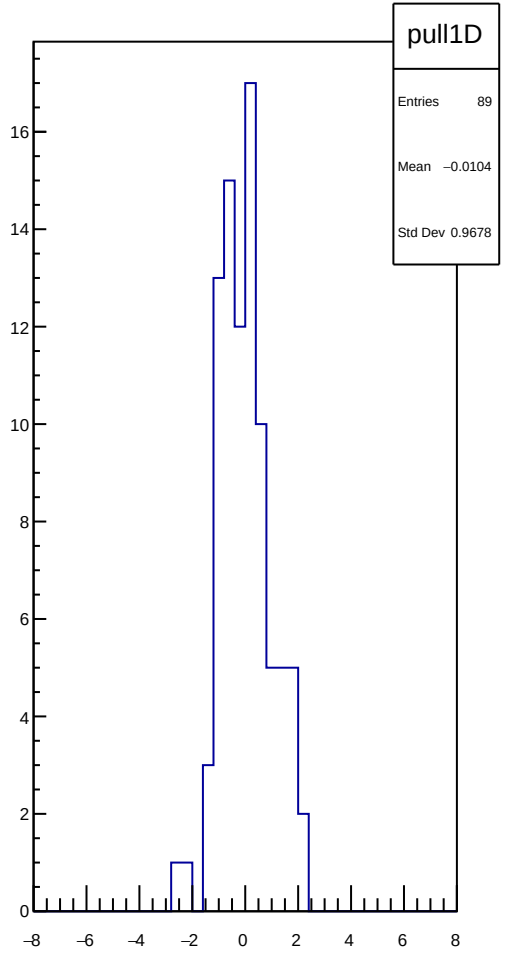

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 80.88 / 88
p0 1807 ± 1.388
1860
1840
1820
1800
1780
1760

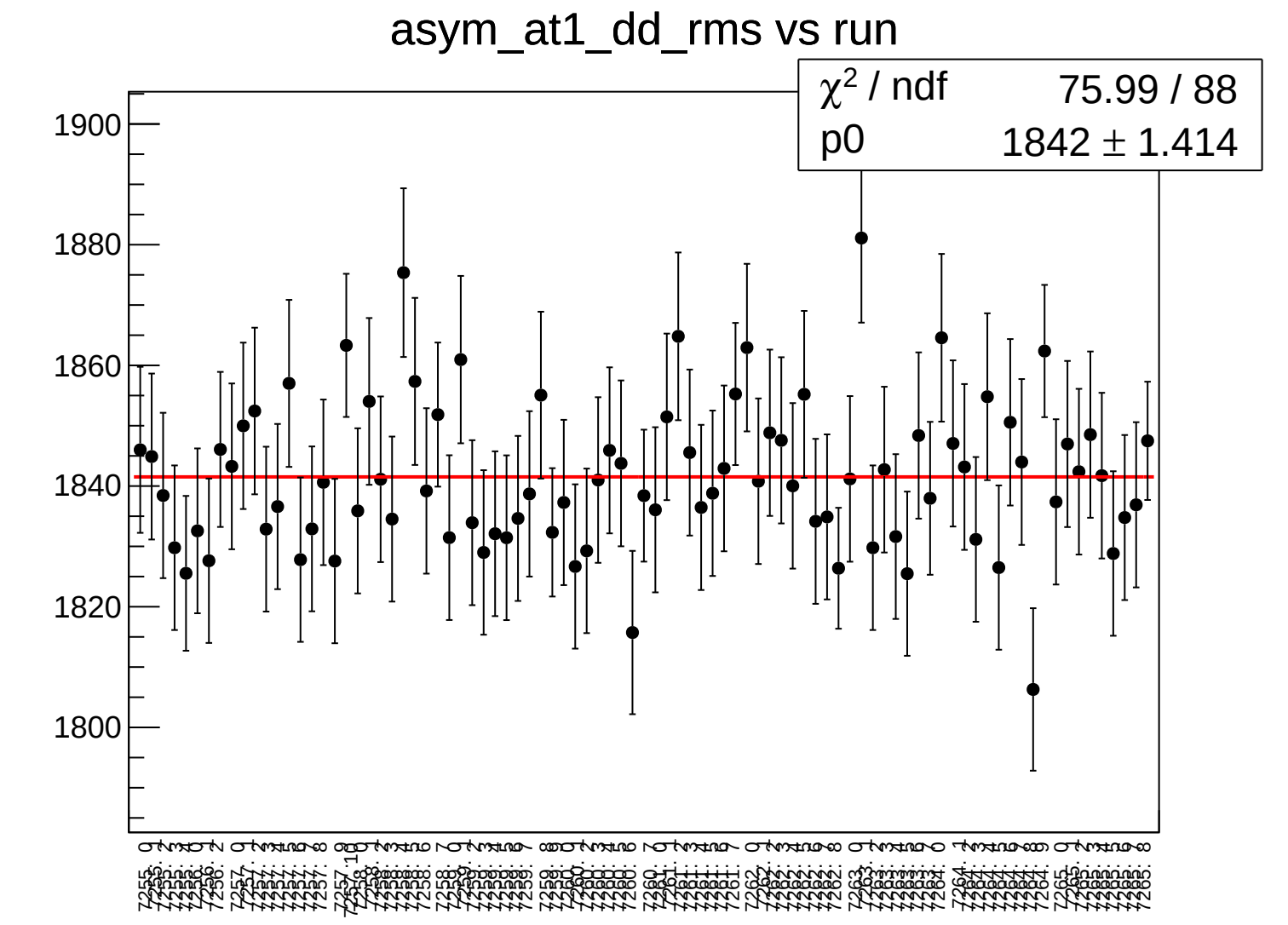

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.58 / 88
p0 563.8 ± 392.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −283.4
Std Dev 0
2
1
0
−1
−2
−3

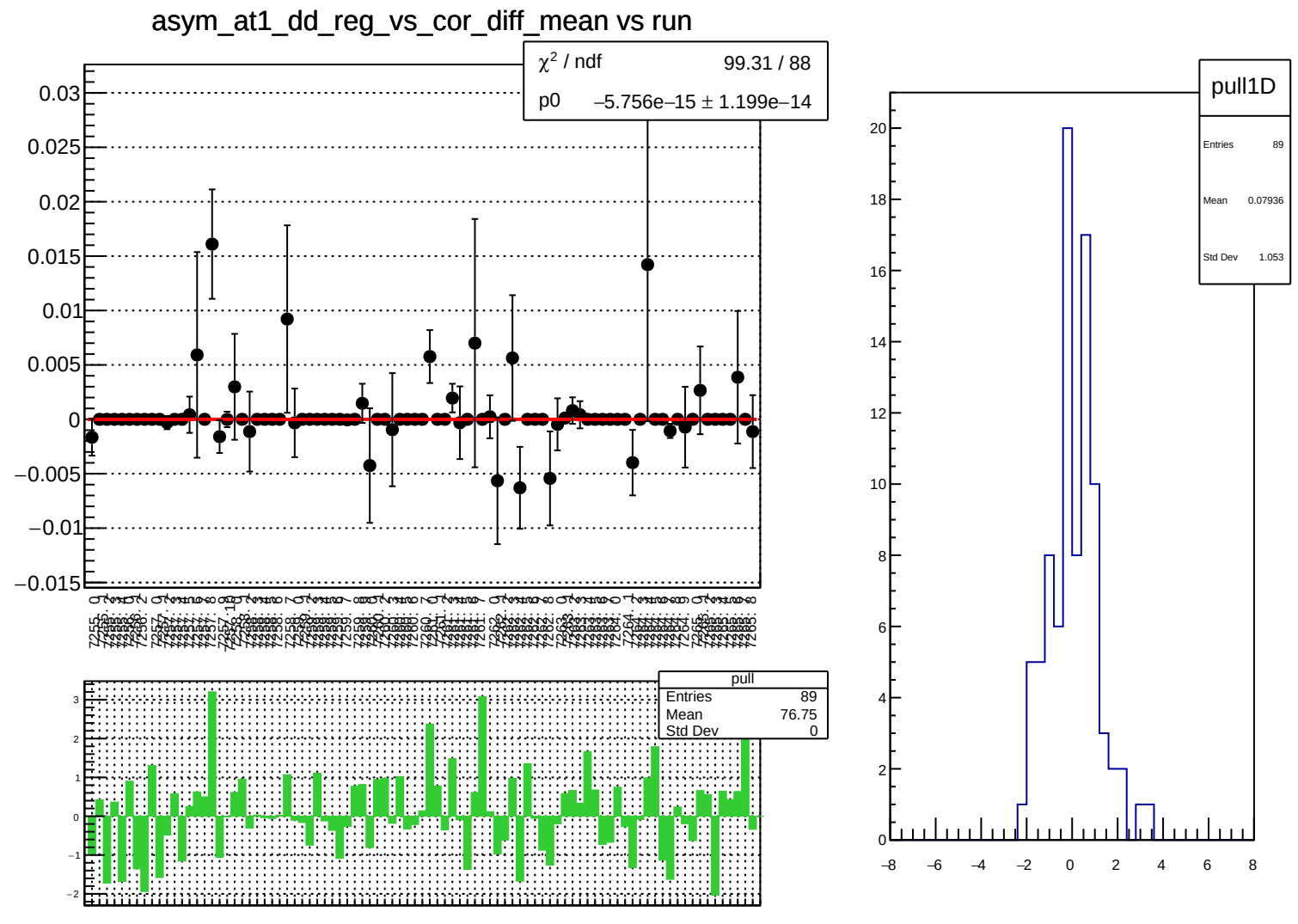

pull1D
Entries 89
Mean 0.0136
Std Dev 0.9514
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

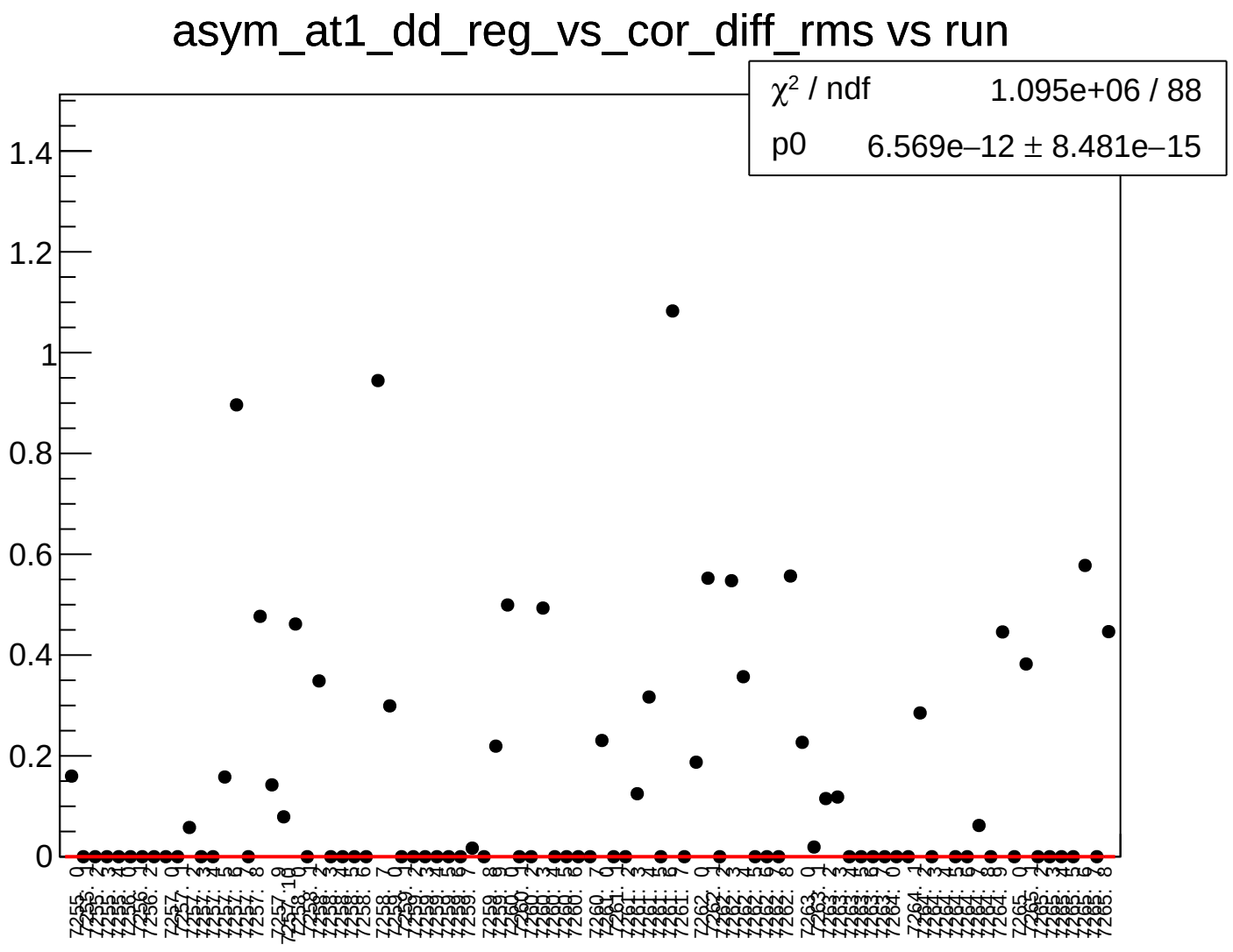

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2885 / 88
p0 360.8 ± 0.2774
420
400
380
360
340

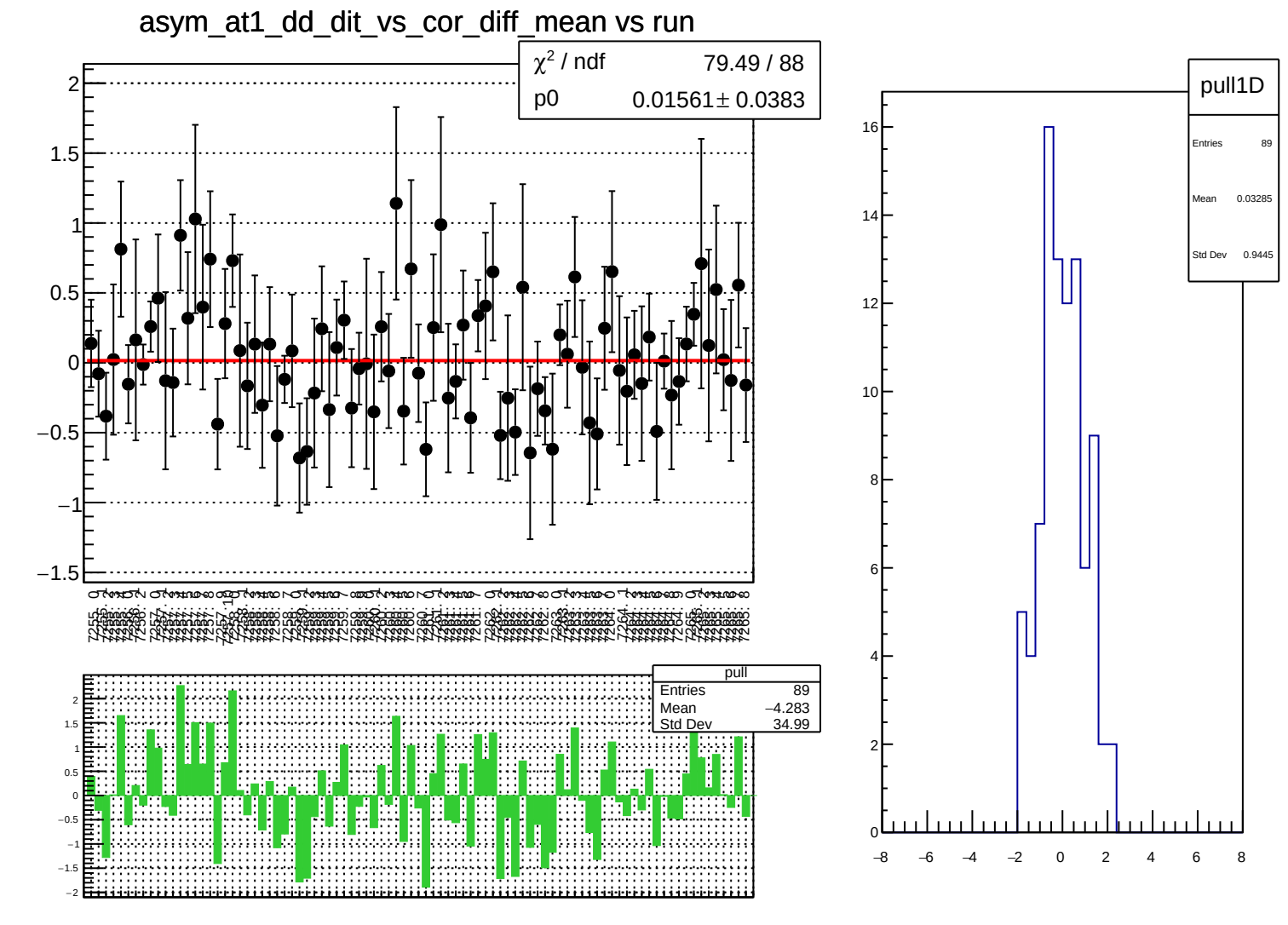

asym_at1_dd_mean vs run
χ² / ndf 83.37 / 88
p0 −1336 ± 2000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −193.8
Std Dev 0
2
1
0
−1
−2

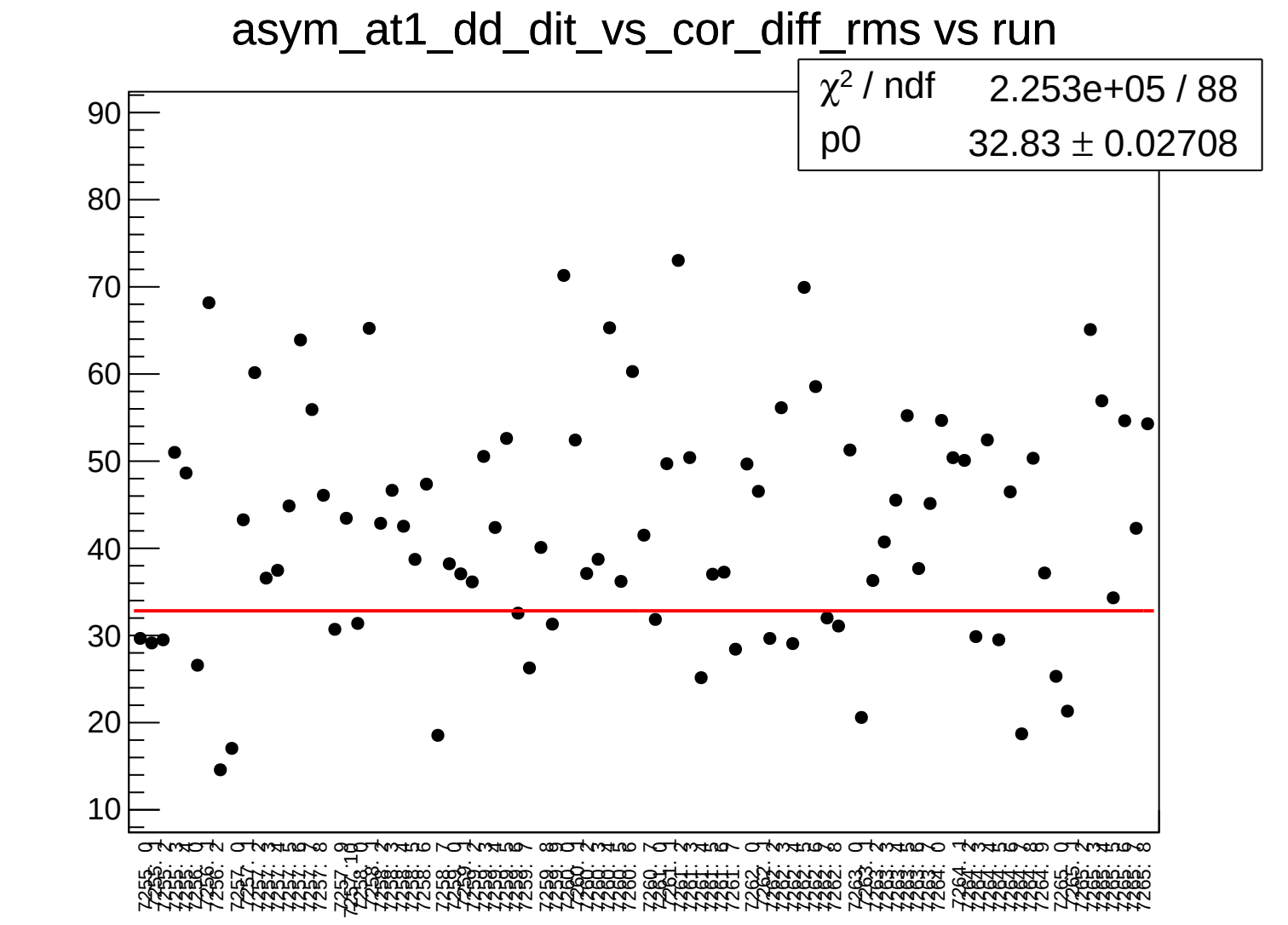

pull1D
Entries 89
Mean −0.0104
Std Dev 0.9678
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

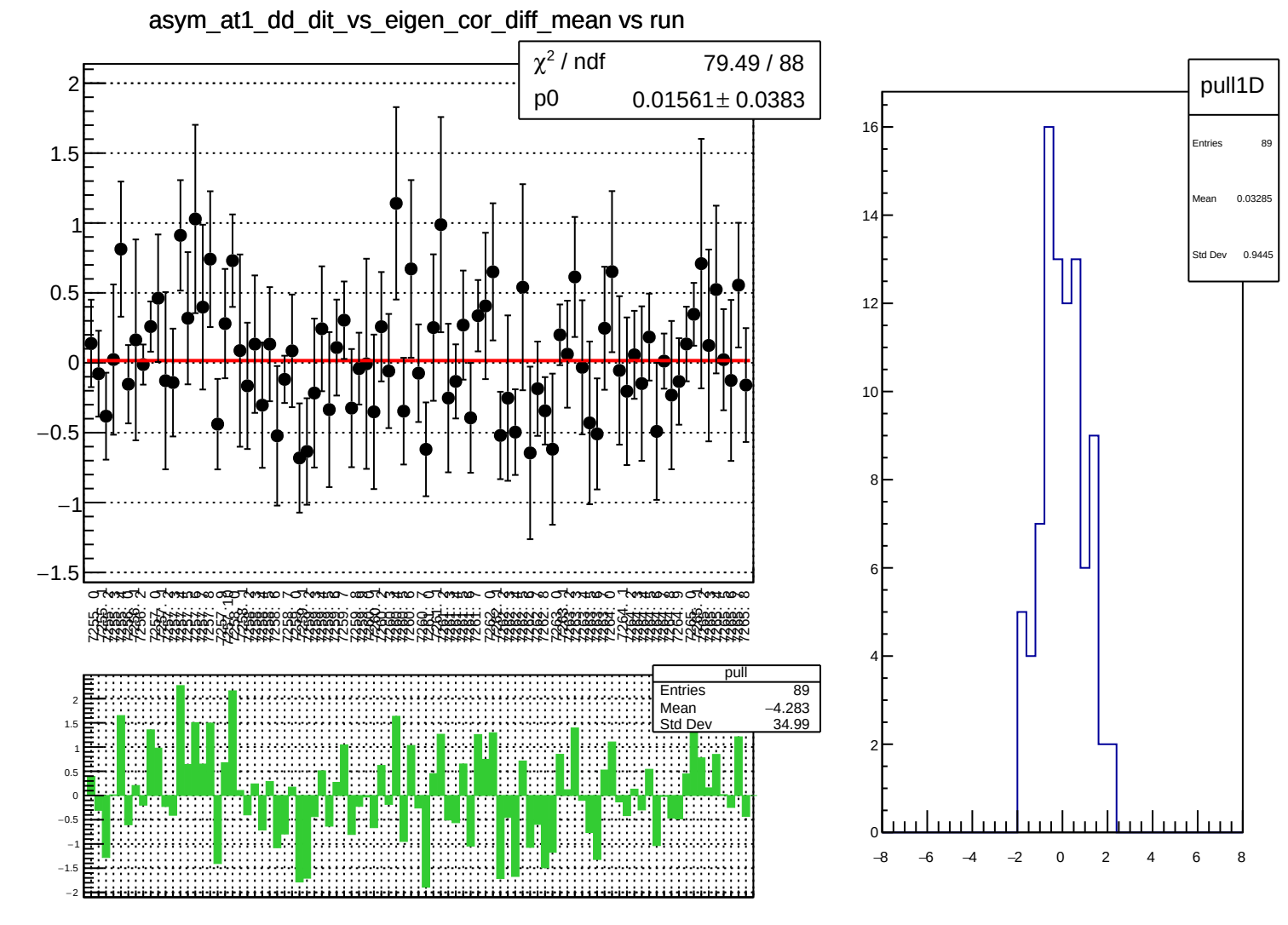

asym_at1_dd_rms vs run
χ^2 / ndf 75.99 / 88
p0 1842 ± 1.414
1900
1880
1860
1840
1820
1800

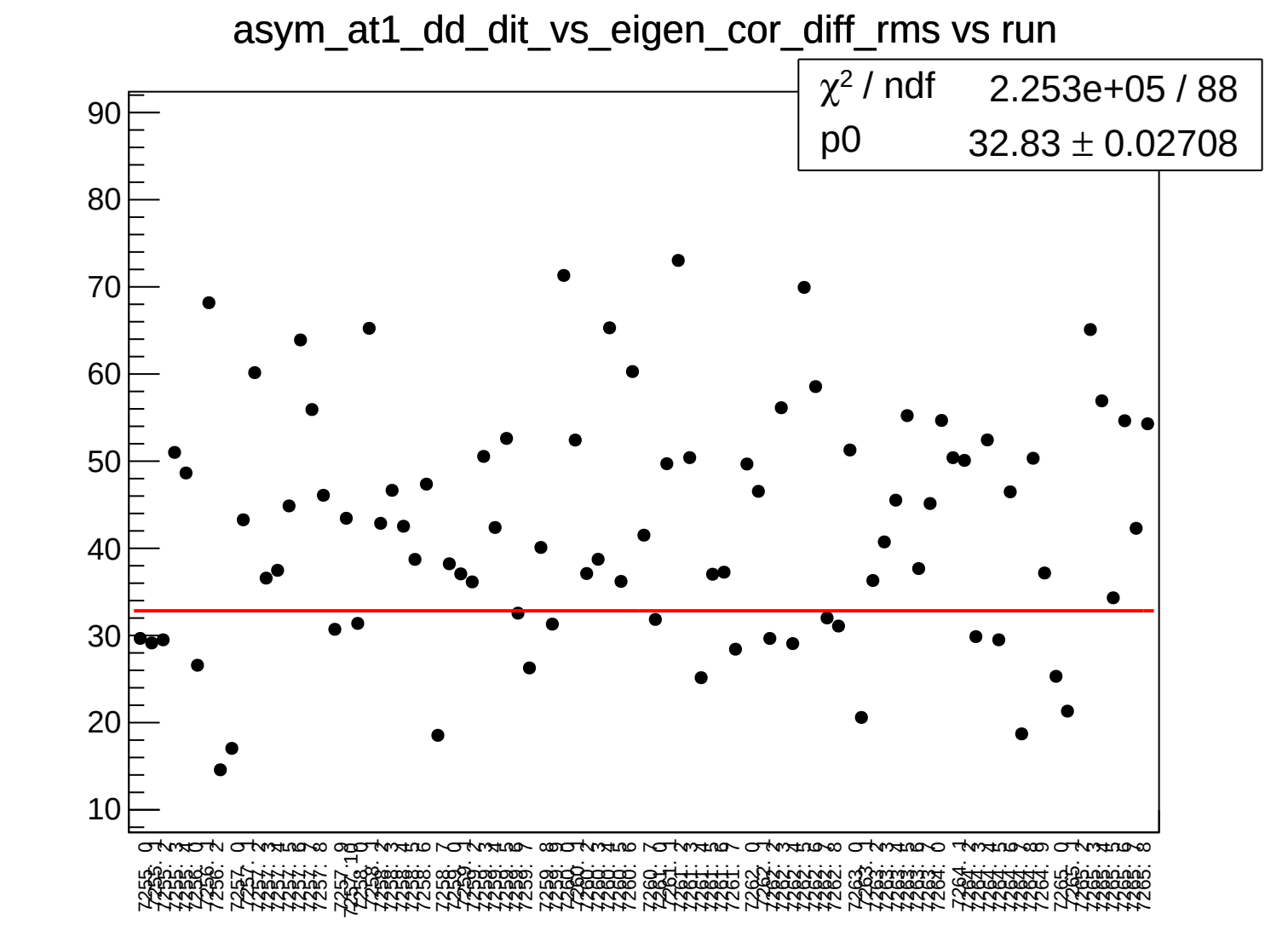

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.31 / 88
p0 −5.756e−15 ± 1.199e−14
pull
Entries 89
Mean 76.75
Std Dev 0
pull1D
Entries 89
Mean 0.07936
Std Dev 1.053

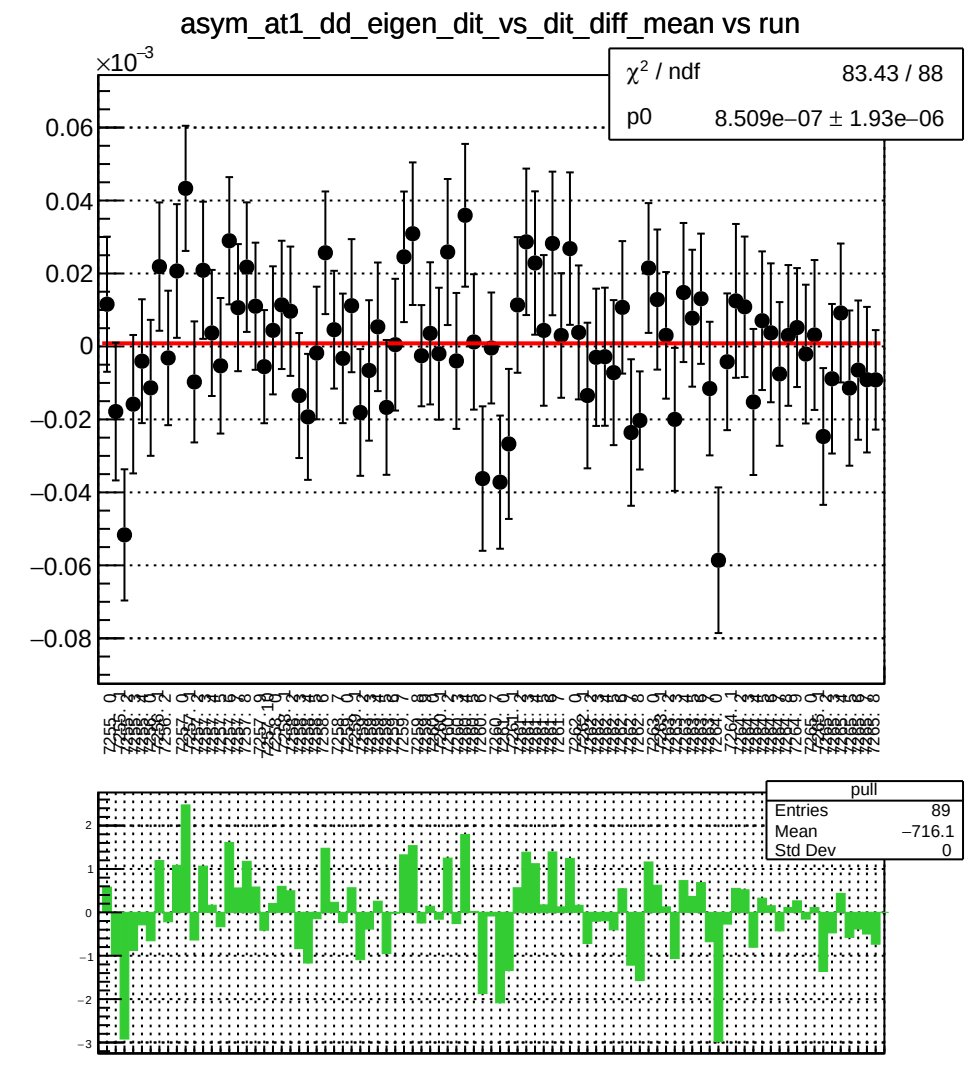

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.095e+06 / 88
p0 6.569e−12 ± 8.481e−15
1.4
1.2
1
0.8
0.6
0.4
0.2
0

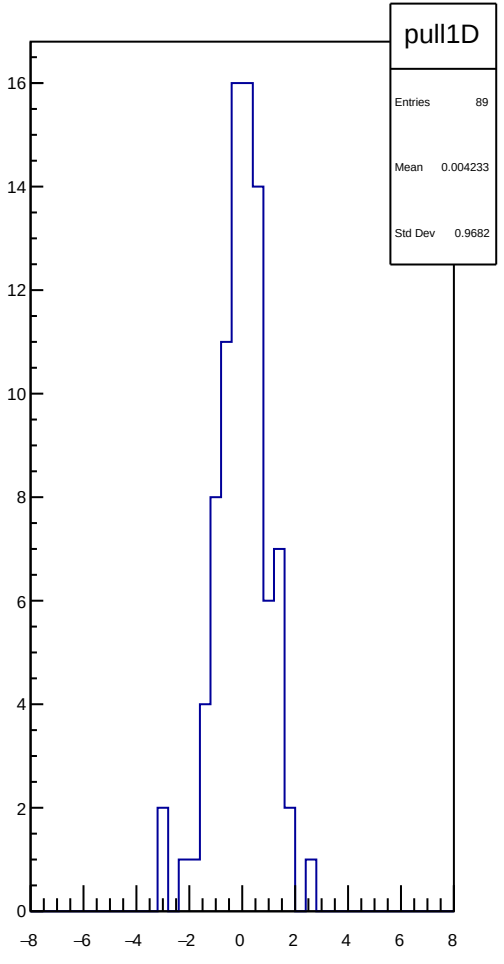

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.49 / 88
p0 0.01561 ± 0.0383
pull
Entries 89
Mean −4.283
Std Dev 34.99
pull1D
Entries 89
Mean 0.03285
Std Dev 0.9445

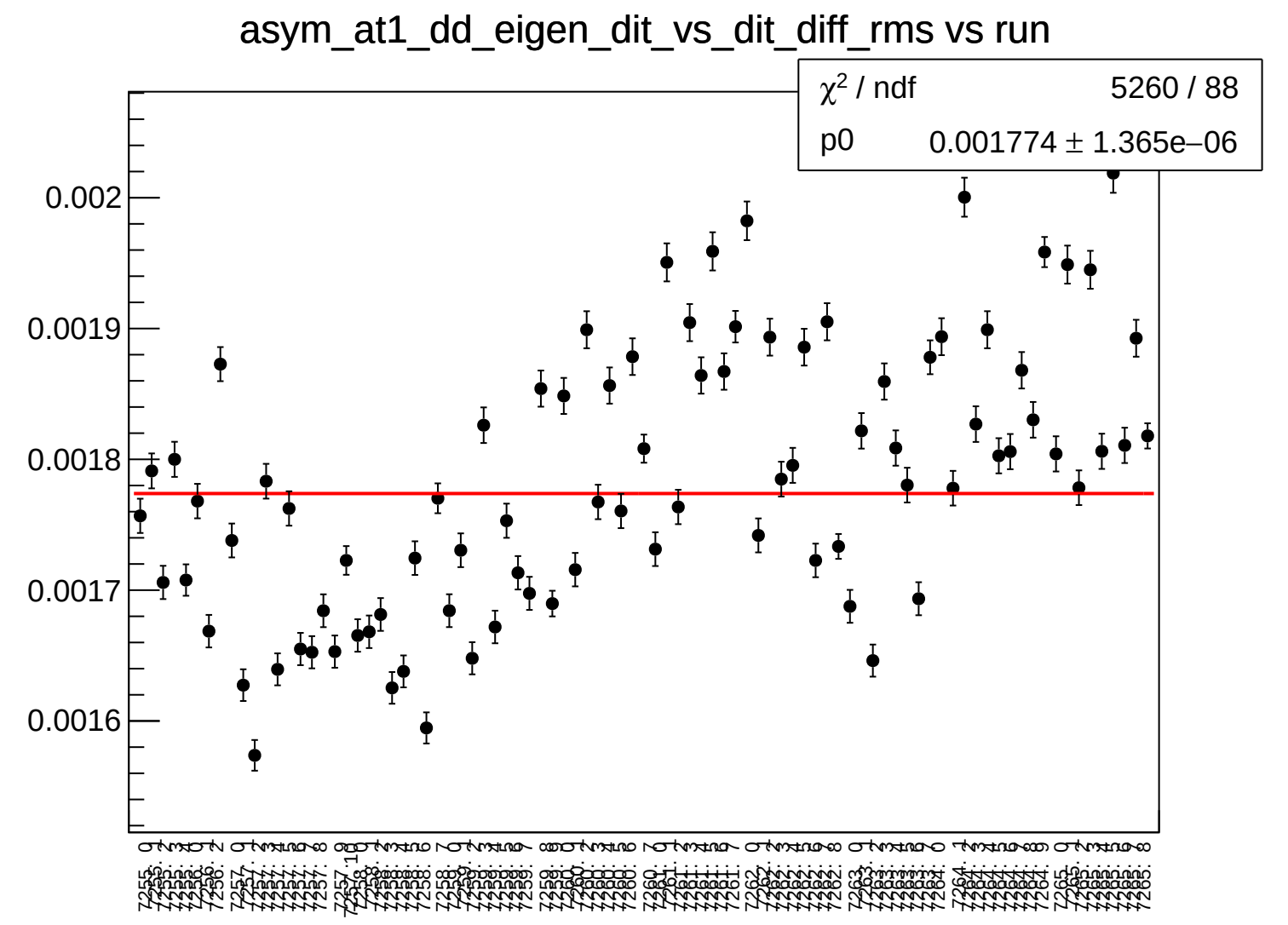

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.253e+05 / 88
p0 32.83 ± 0.02708
90
80
70
60
50
40
30
20
10

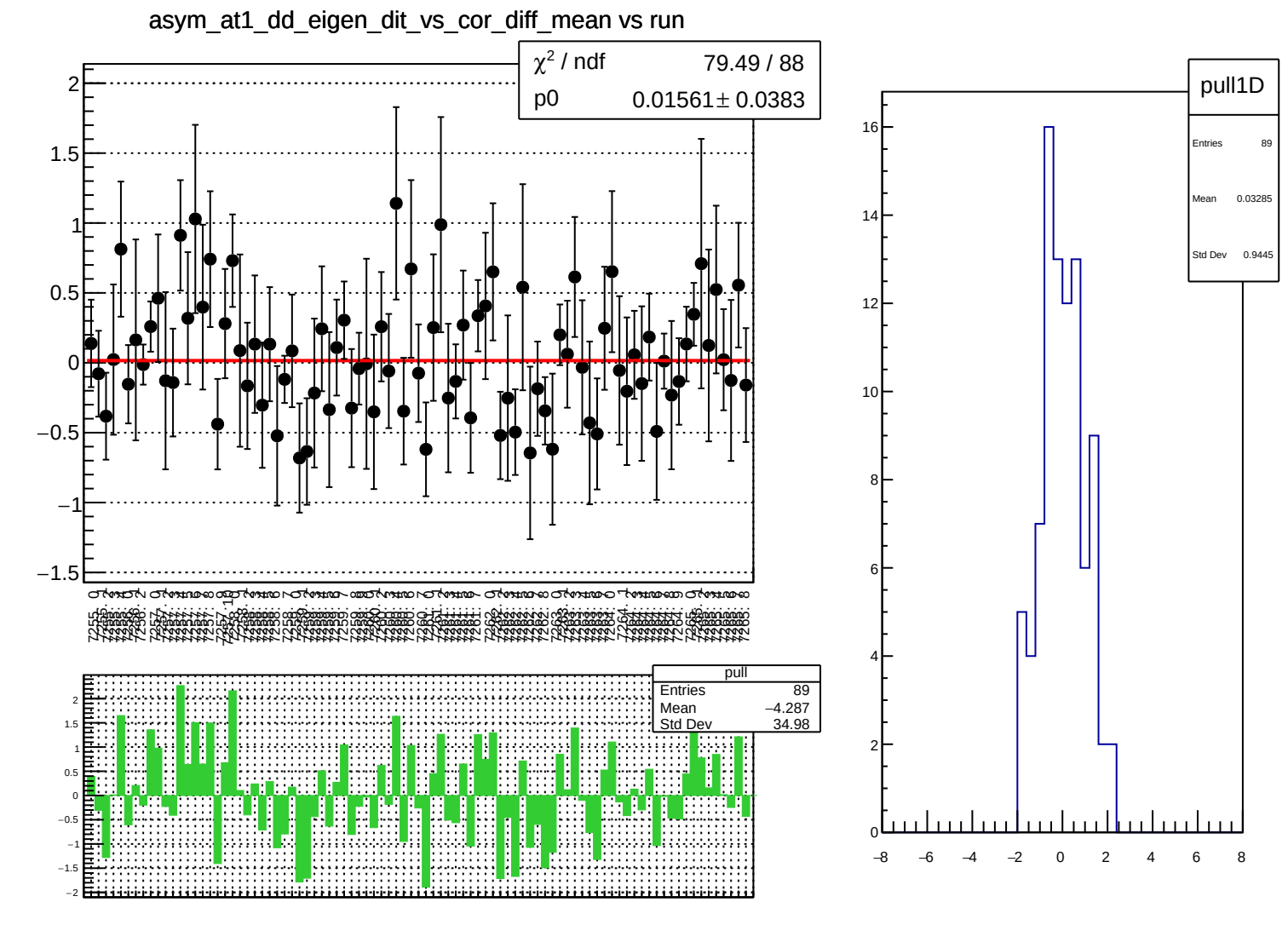

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.49 / 88
p0 0.01561 ± 0.0383
pull
Entries 89
Mean −4.283
Std Dev 34.99
pull1D
Entries 89
Mean 0.03285
Std Dev 0.9445

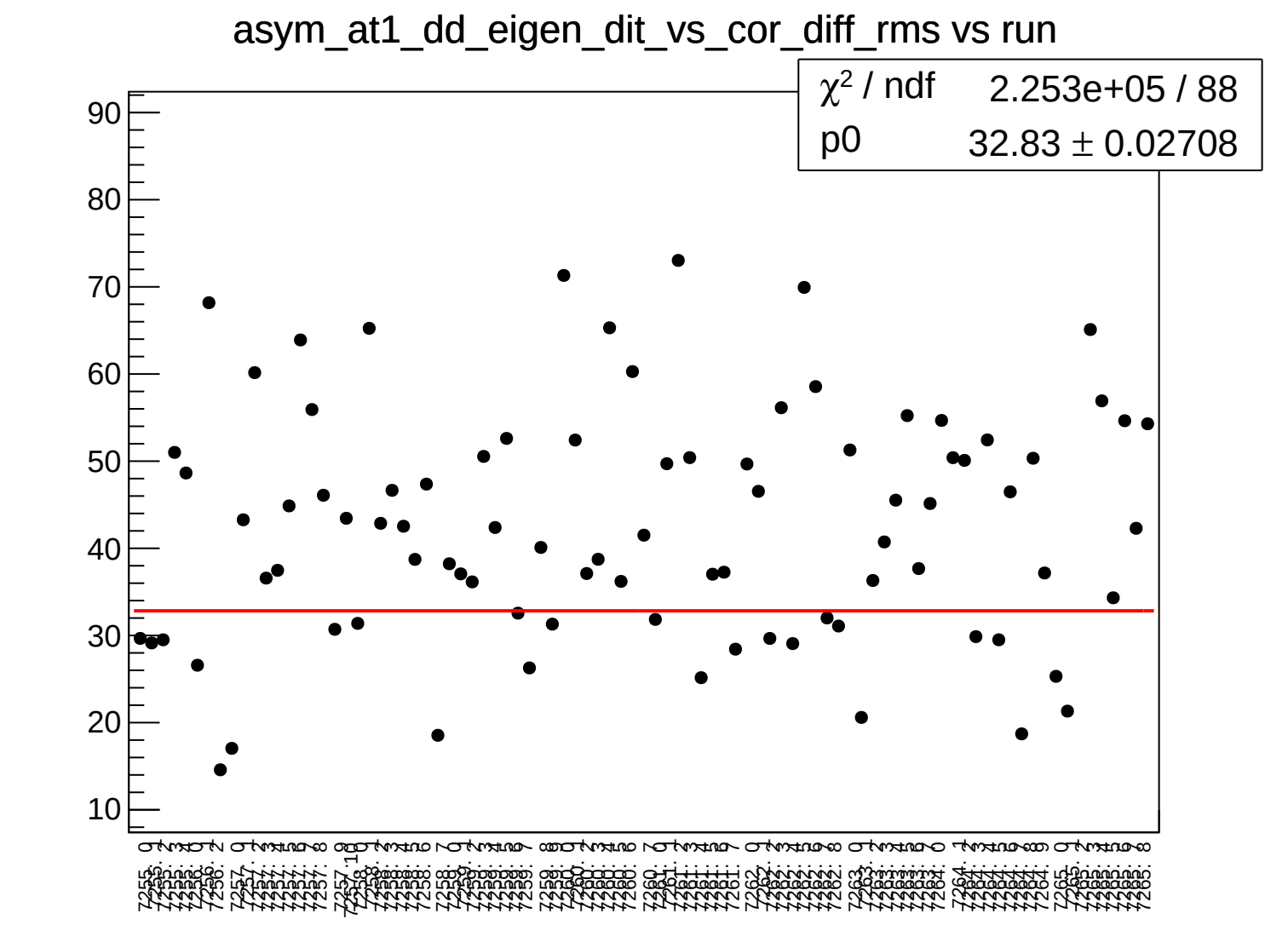

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.253e+05 / 88
p0 32.83 ± 0.02708
90
80
70
60
50
40
30
20
10

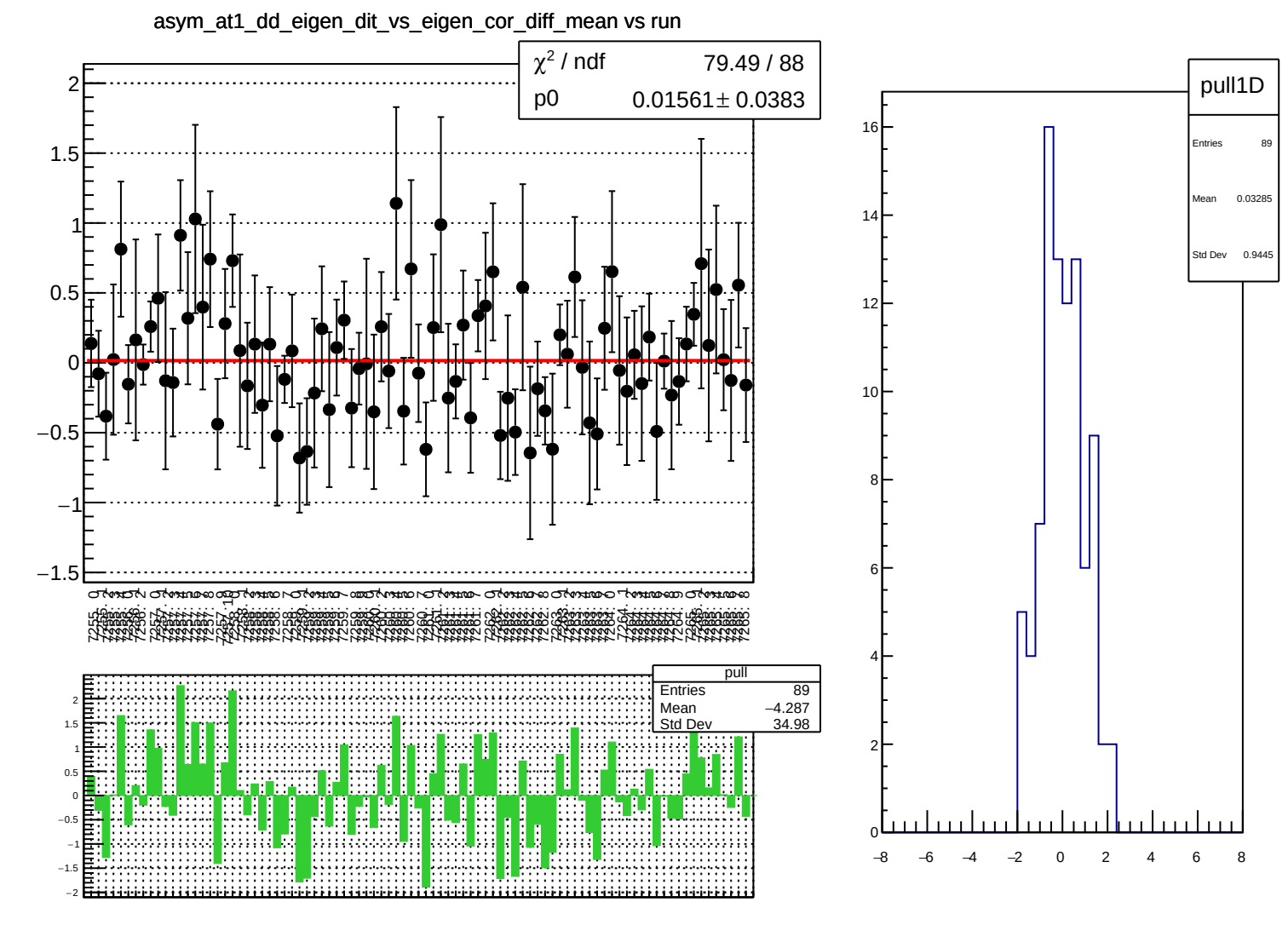

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.43 / 88
p0 8.509e−07 ± 1.93e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean −716.1
Std Dev 0
2
1
0
−1
−2
−3

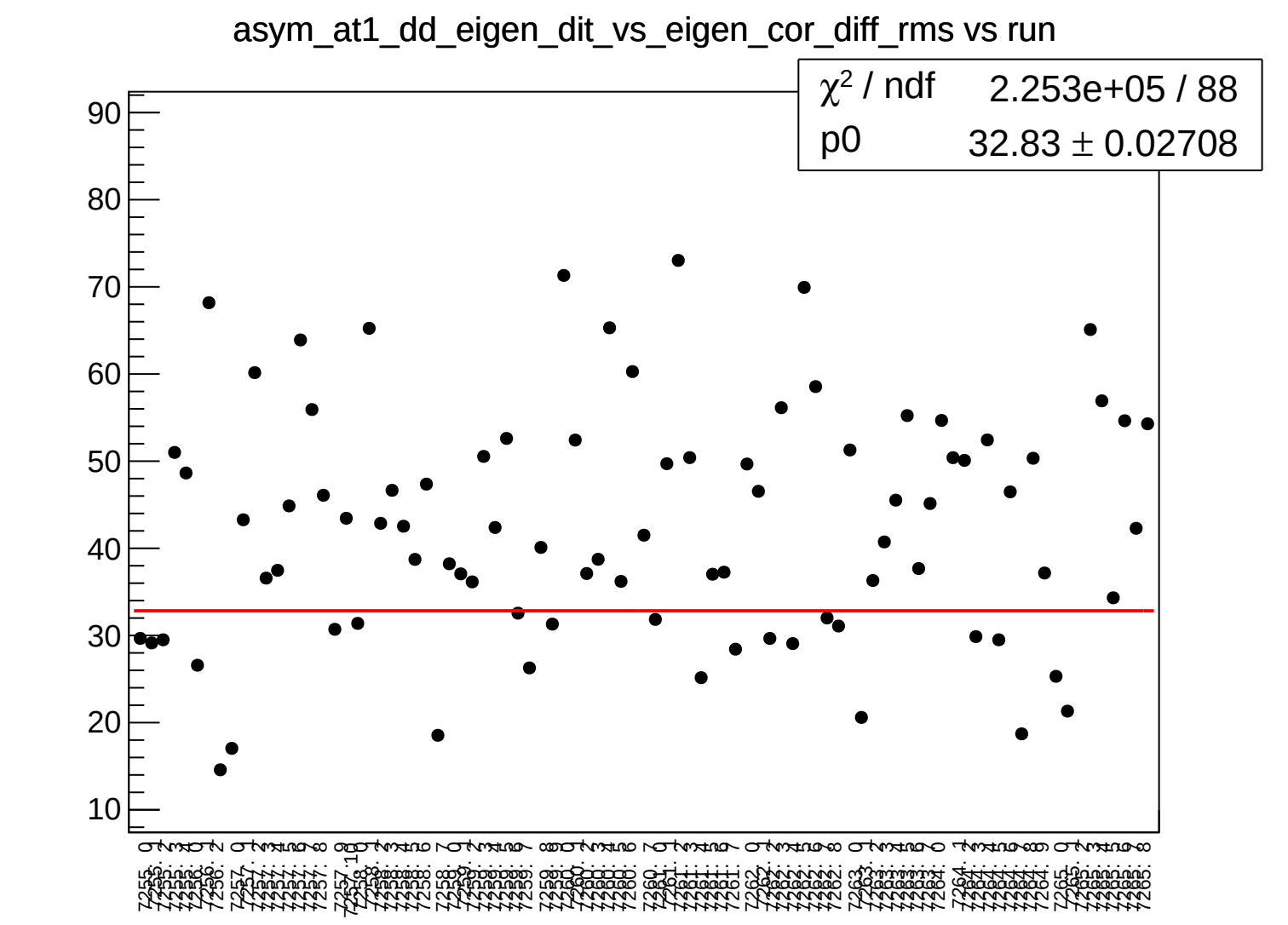

pull1D
Entries 89
Mean 0.004233
Std Dev 0.9682
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

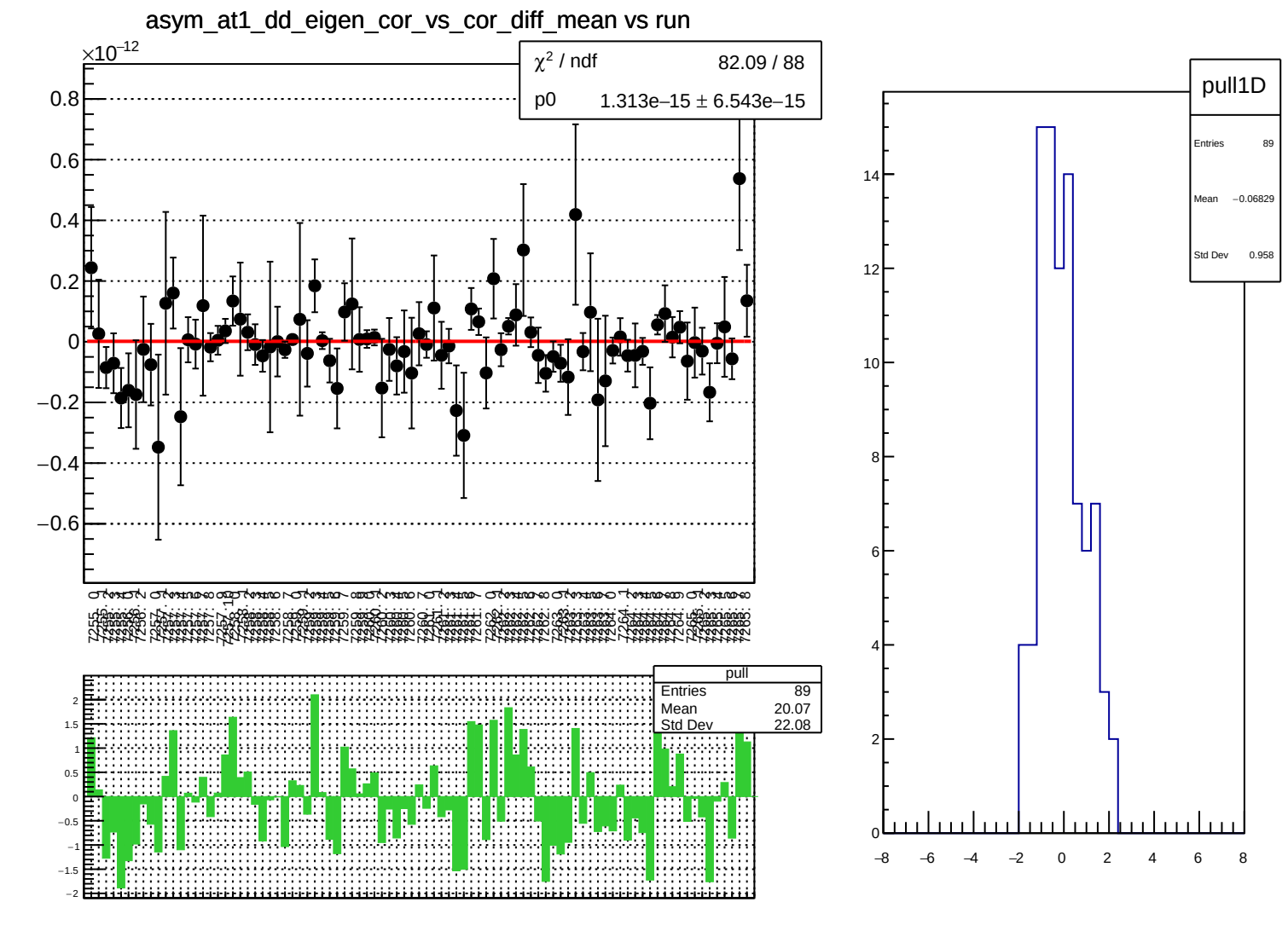

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5260 / 88
p0 0.001774 ± 1.365e−06
0.002
0.0019
0.0018
0.0017
0.0016

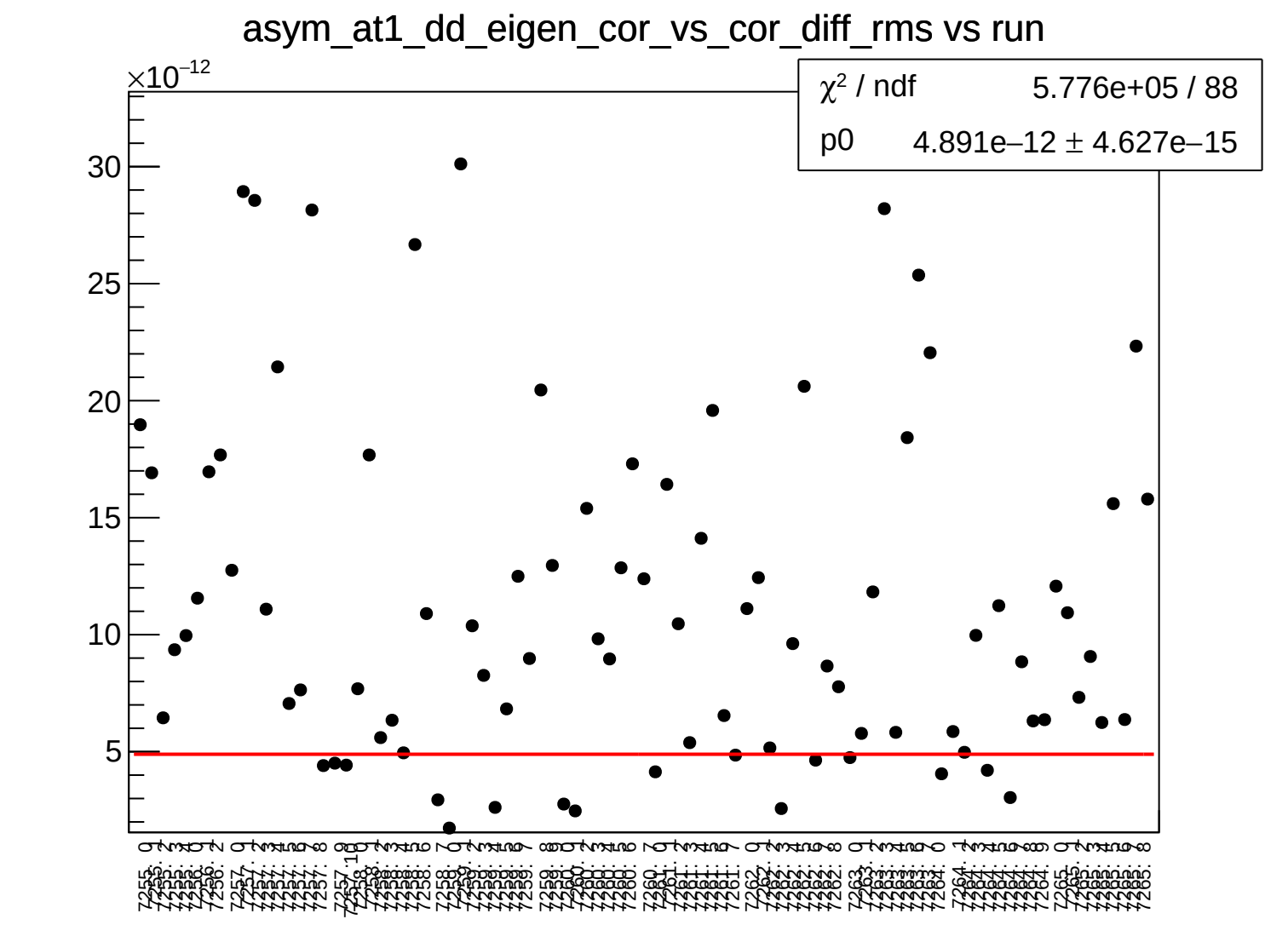

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.49 / 88
p0 0.01561 ± 0.0383
pull
Entries 89
Mean −4.287
Std Dev 34.98
pull1D
Entries 89
Mean 0.03285
Std Dev 0.9445

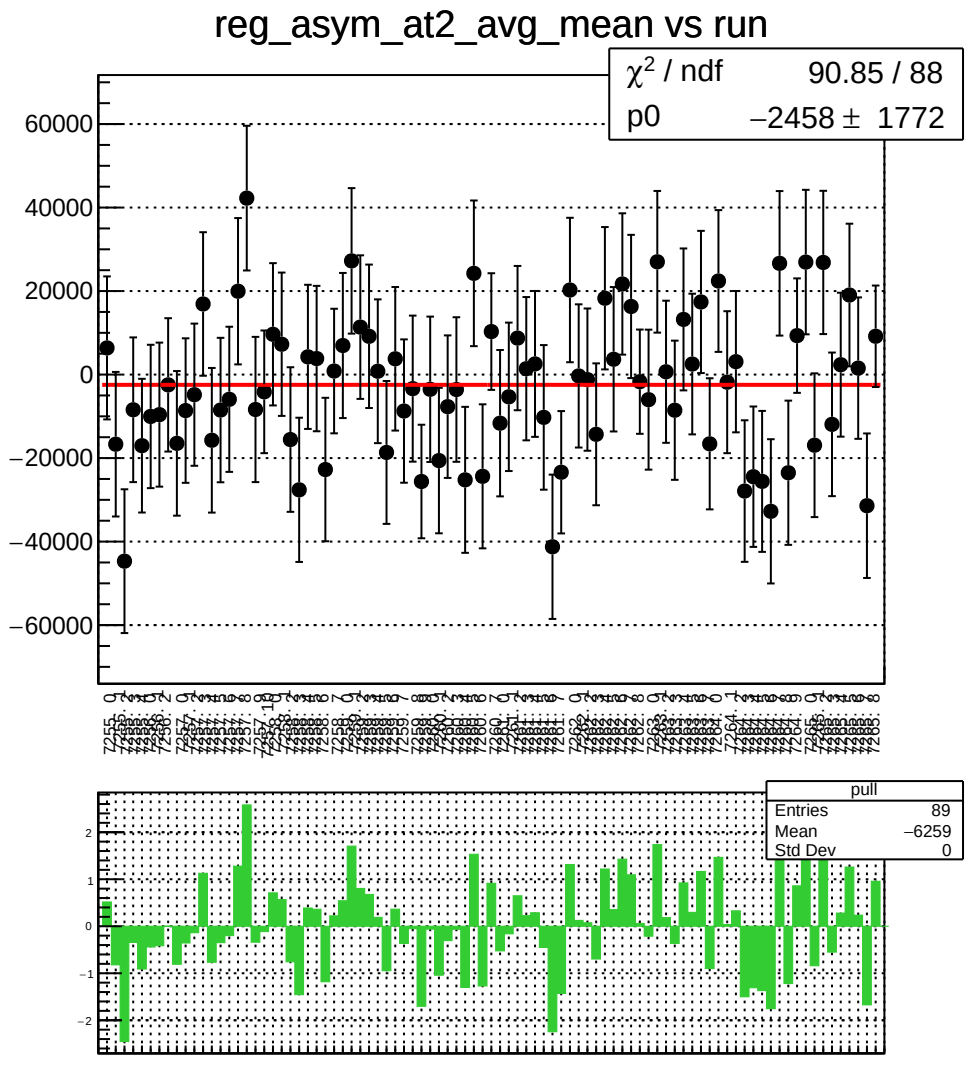

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.253e+05 / 88
p0 32.83 ± 0.02708
90
80
70
60
50
40
30
20
10

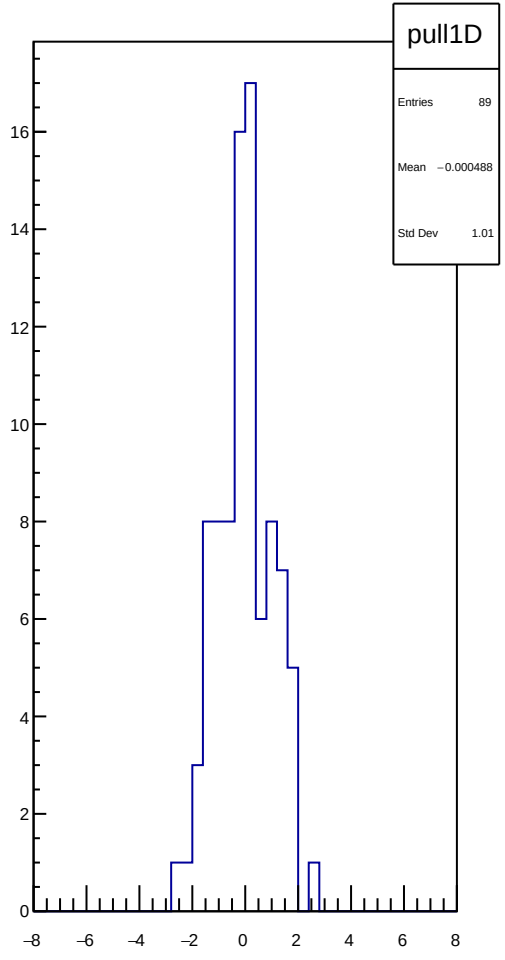

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.49 / 88
p0 0.01561 ± 0.0383
pull
Entries 89
Mean −4.287
Std Dev 34.98
pull1D
Entries 89
Mean 0.03285
Std Dev 0.9445

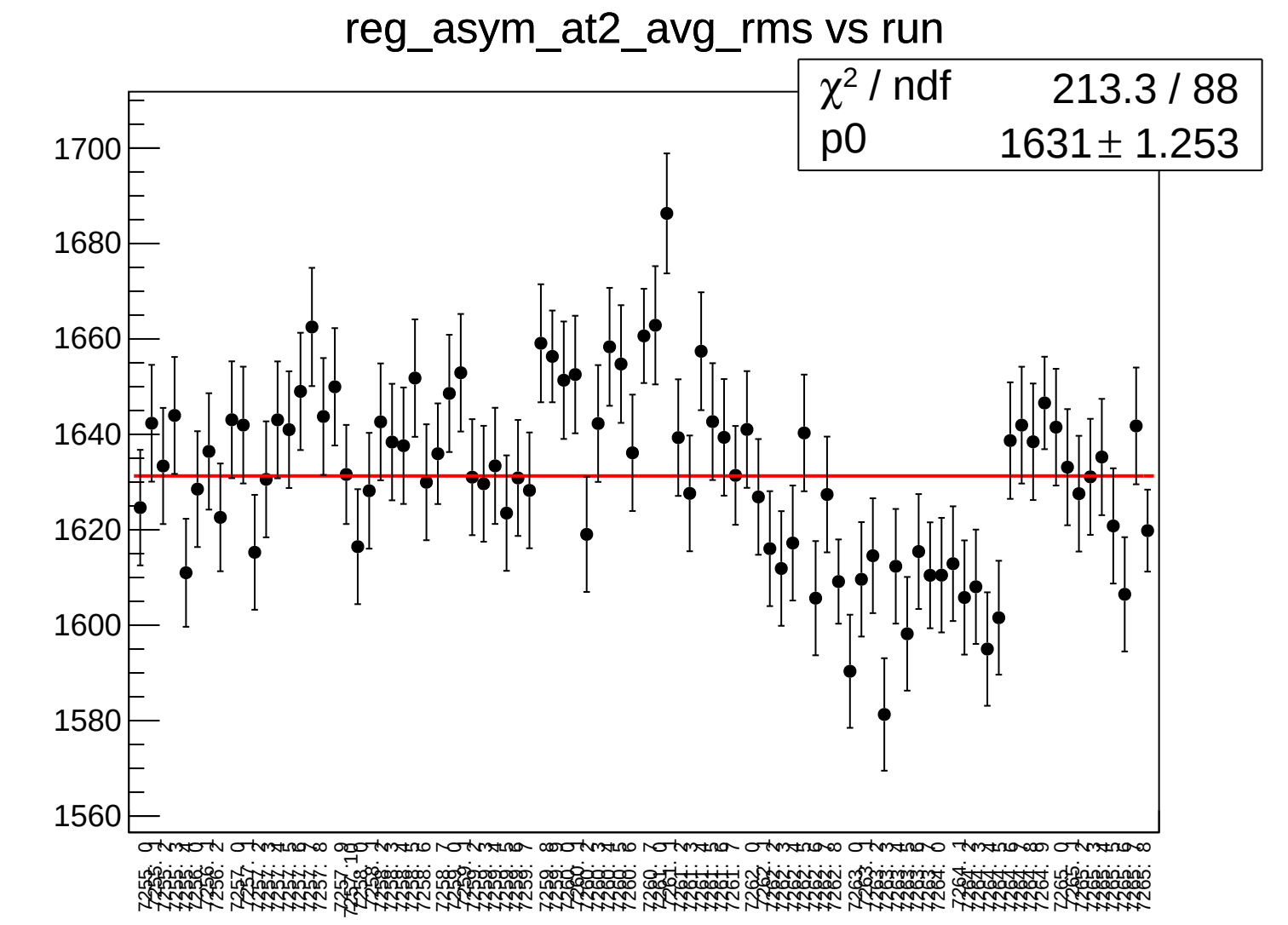

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.253e+05 / 88
p0 32.83 ± 0.02708
90
80
70
60
50
40
30
20
10

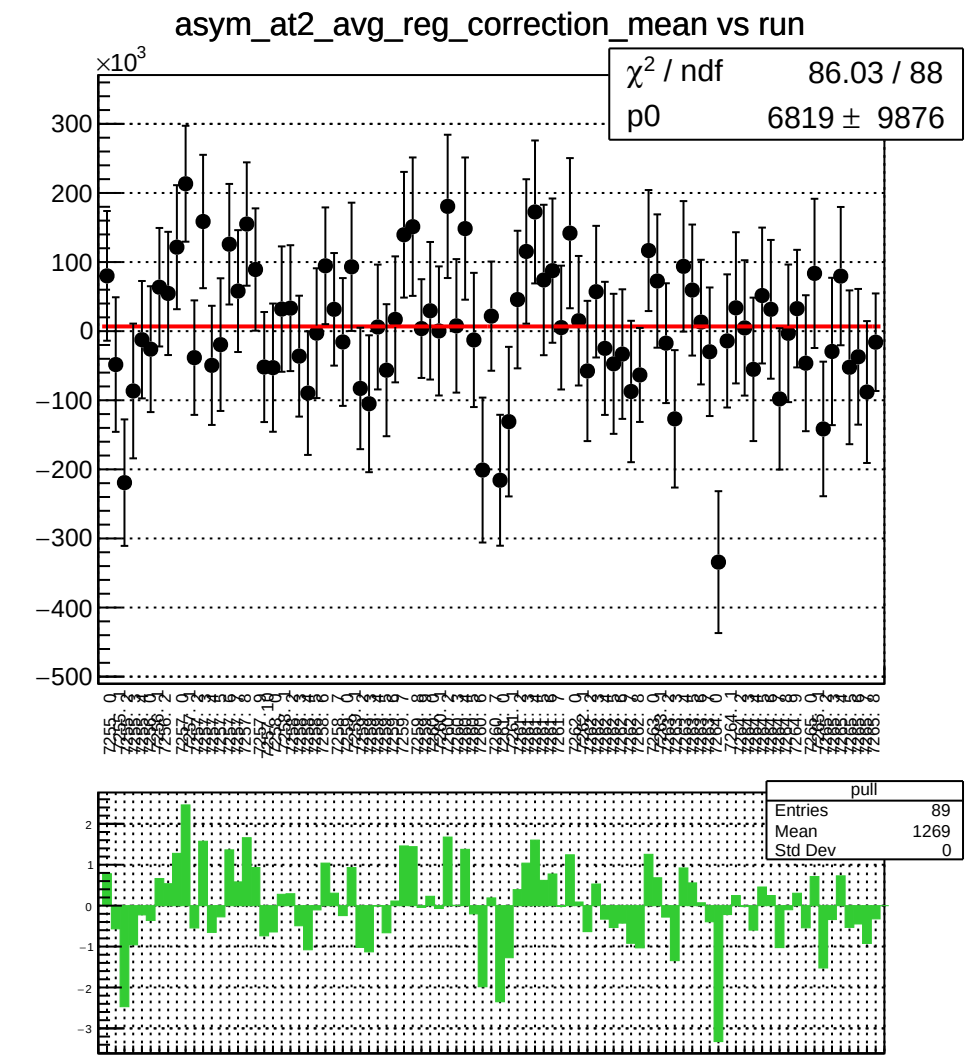

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 82.09 / 88
p0 1.313e−15 ± 6.543e−15
pull
Entries 89
Mean 20.07
Std Dev 22.08
pull1D
Entries 89
Mean −0.06829
Std Dev 0.958

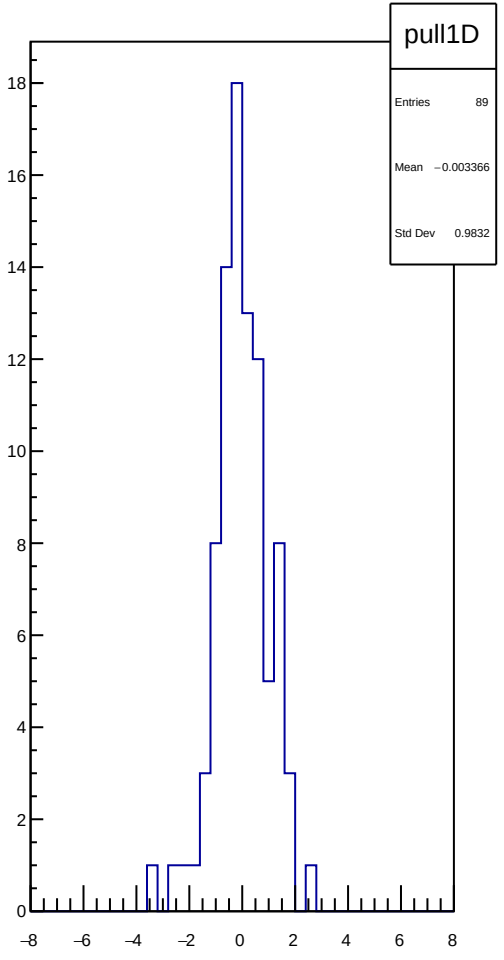

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.776e+05 / 88
p0 4.891e−12 ± 4.627e−15
30
25
20
15
10
5

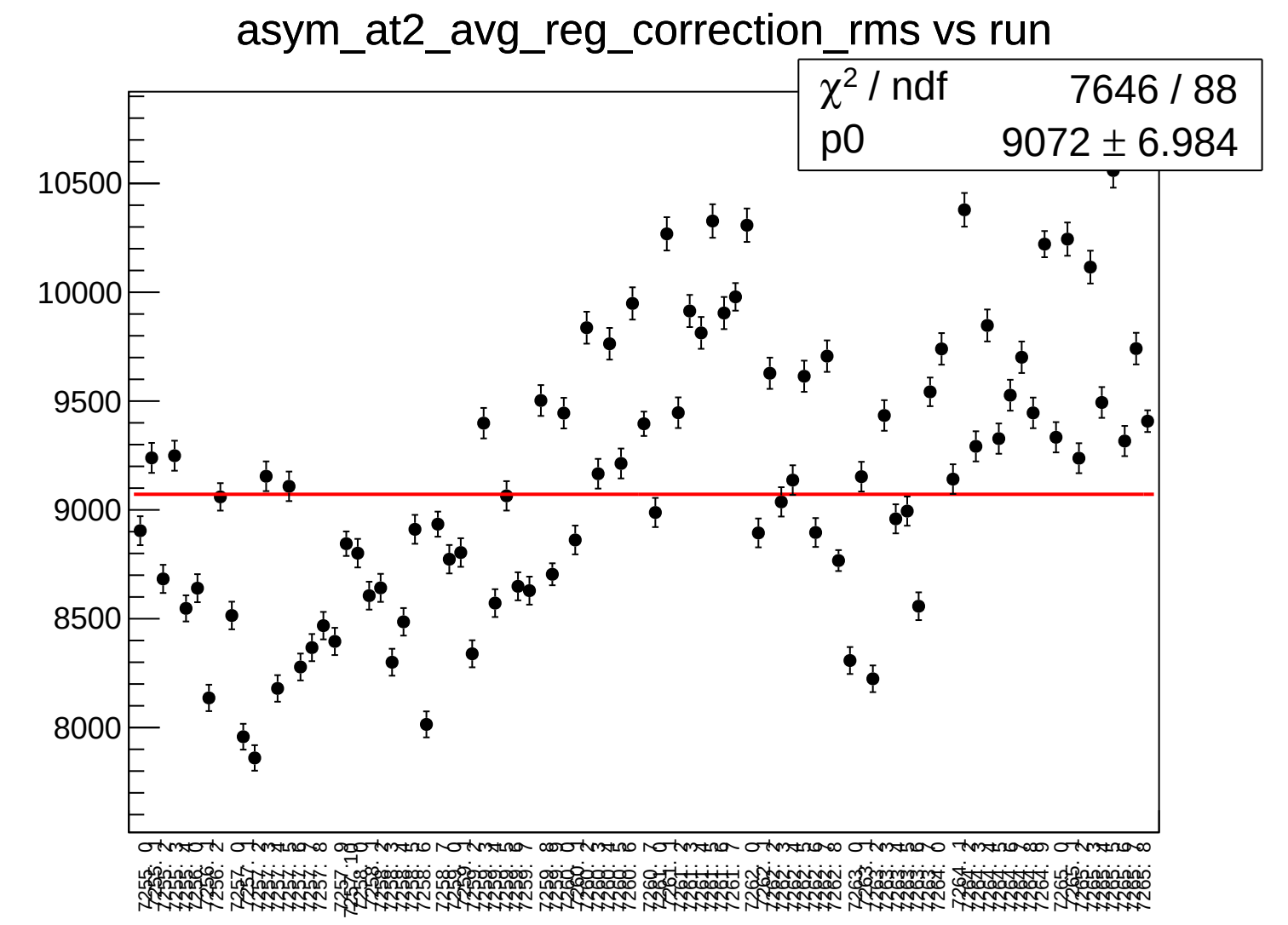

reg_asym_at2_avg_mean vs run
χ² / ndf 90.85 / 88
p0 −2458 ± 1772
pull
Entries 89
Mean −6259
Std Dev 0

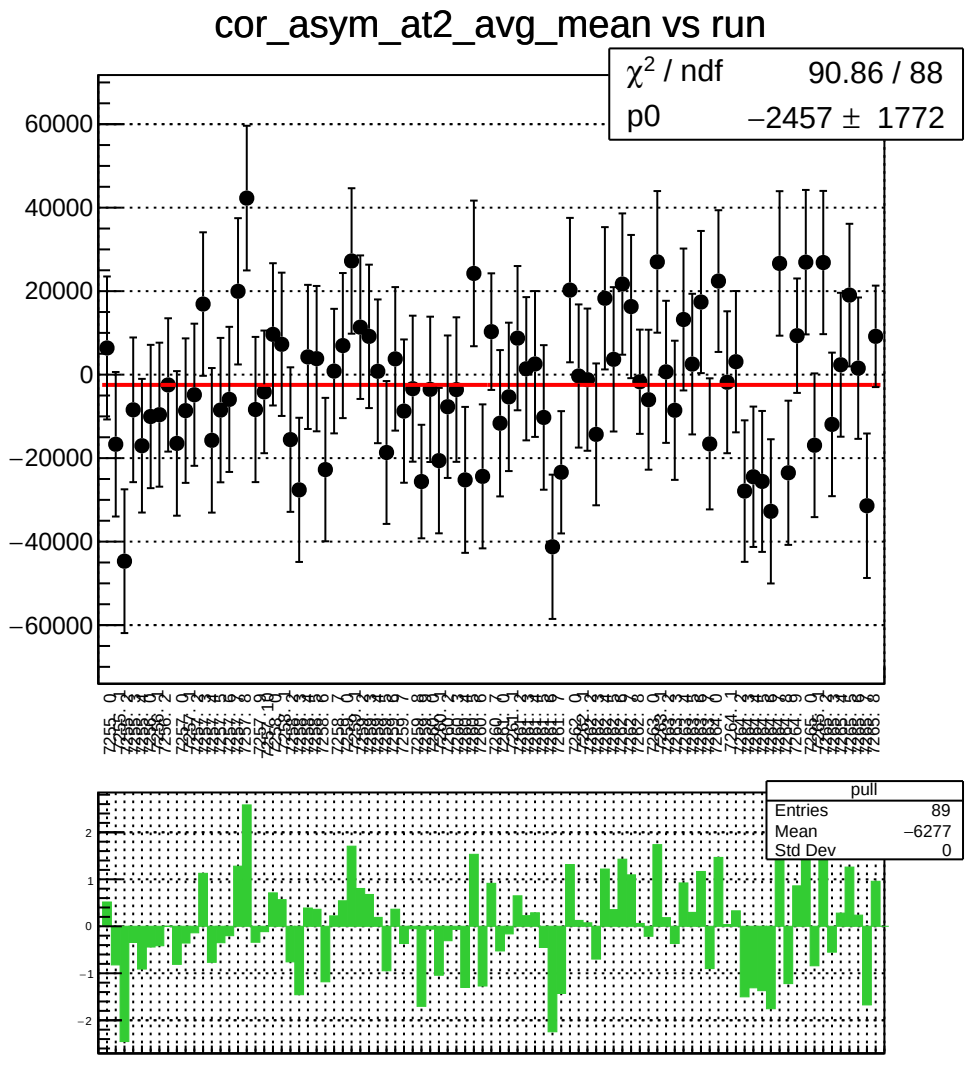

pull1D
Entries 89
Mean −0.000488
Std Dev 1.01

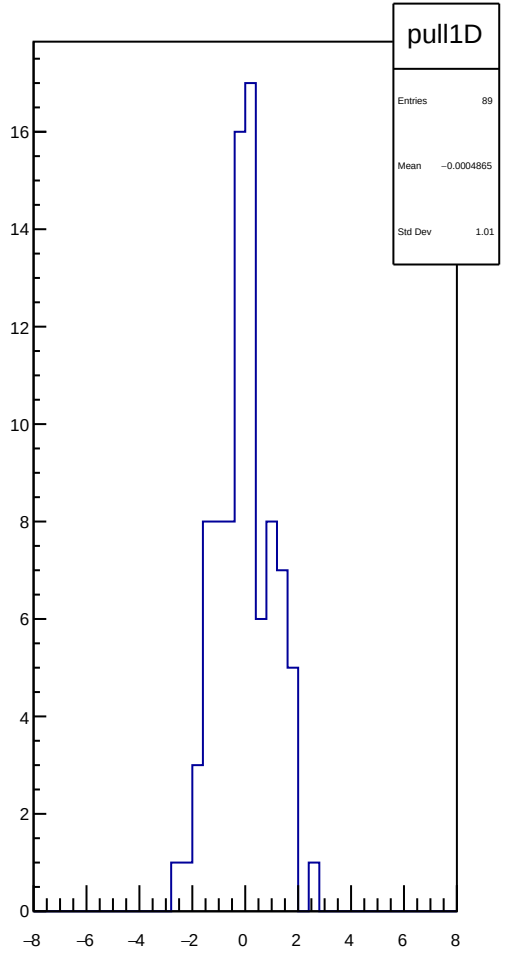

reg_asym_at2_avg_rms vs run
χ² / ndf 213.3 / 88
p0 1631 ± 1.253
1700
1680
1660
1640
1620
1600
1580
1560

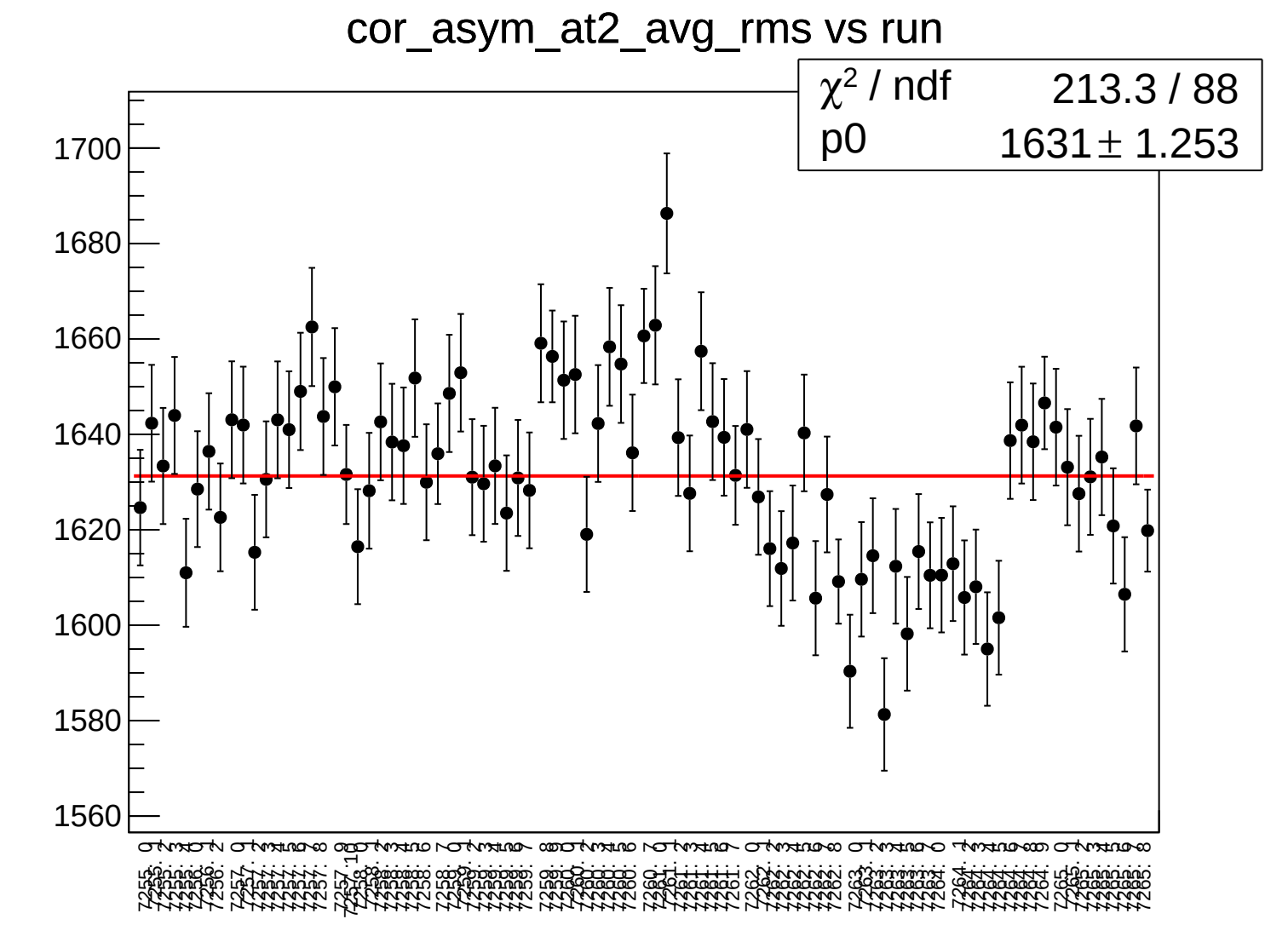

asym_at2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 86.03 / 88
p0 6819 ± 9876
pull
Entries 89
Mean 1269
Std Dev 0

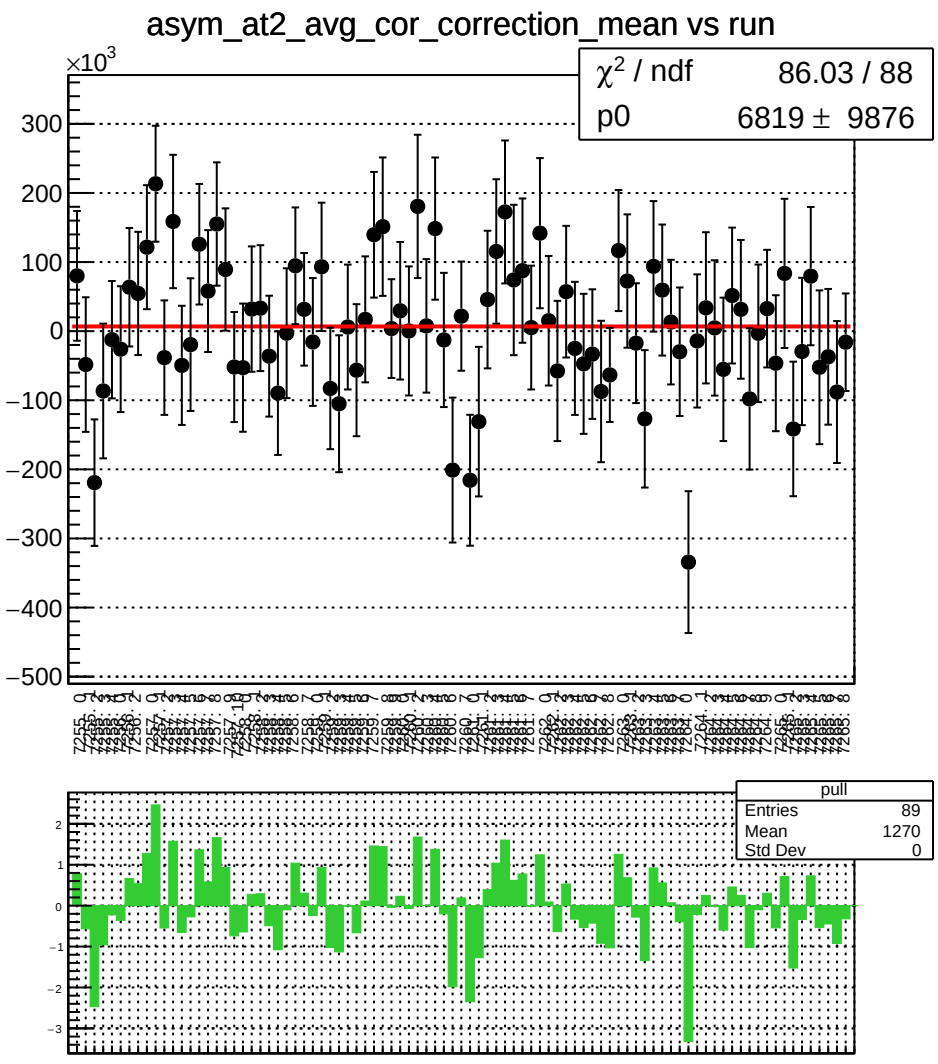

pull1D
Entries 89
Mean −0.003366
Std Dev 0.9832

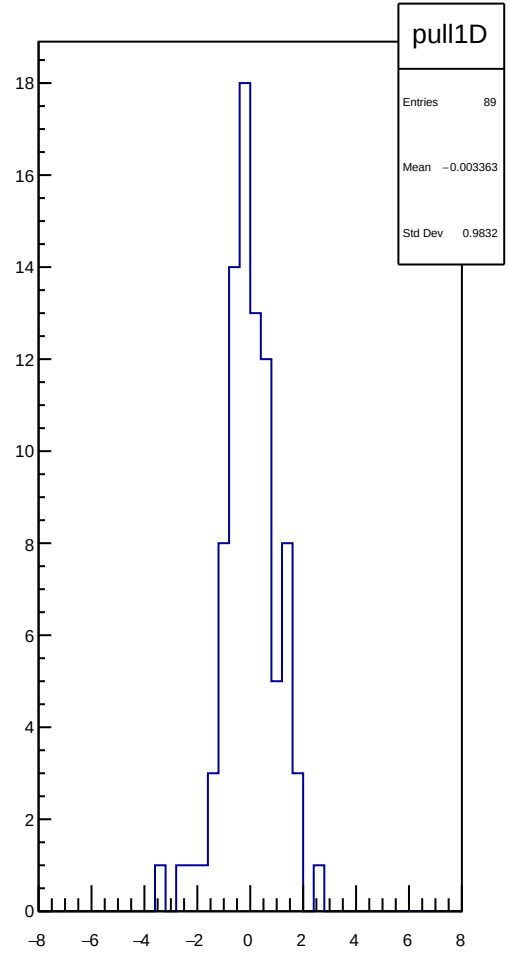

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 7646 / 88
p0 9072 ± 6.984
10500
10000
9500
9000
8500
8000

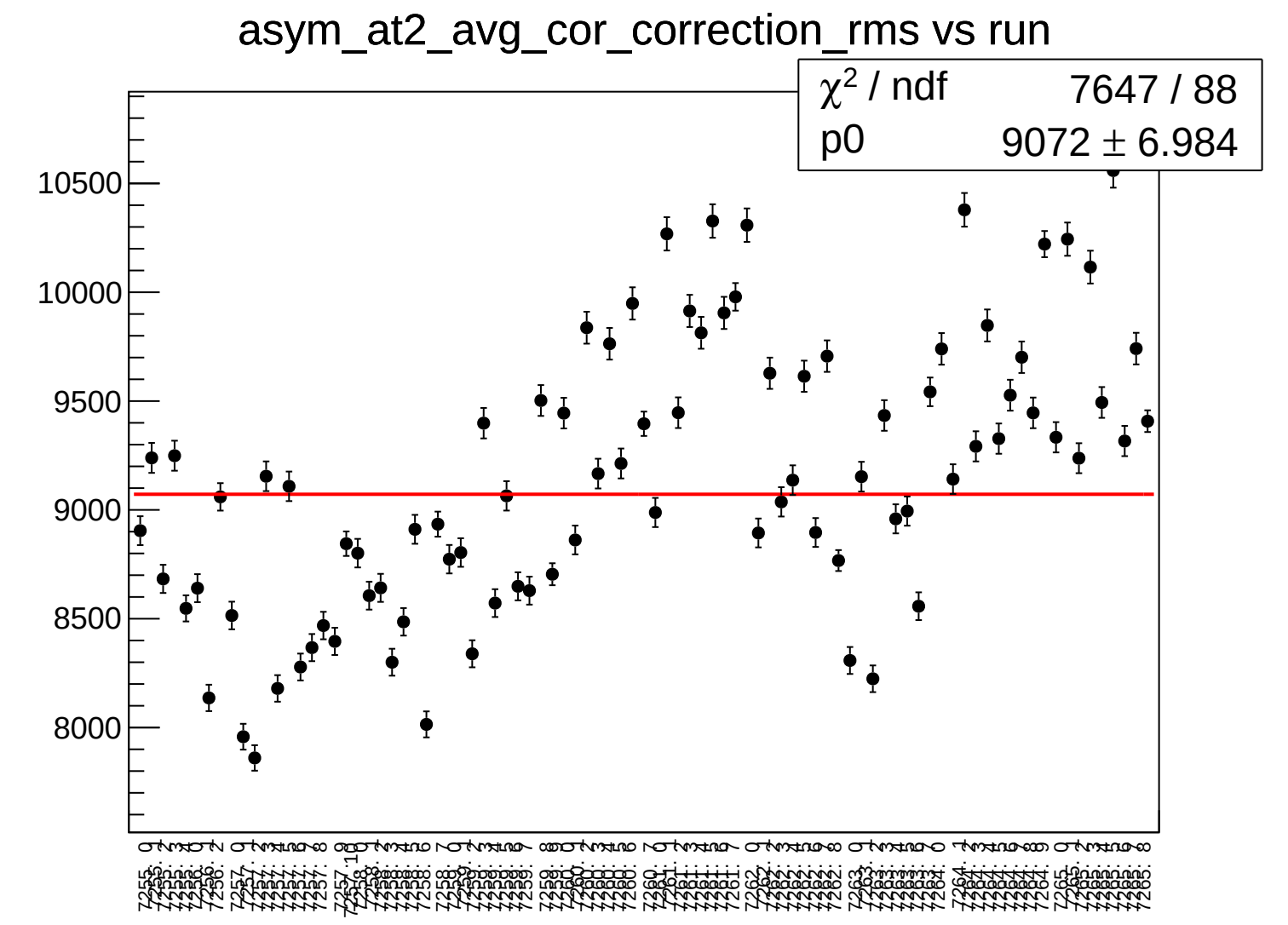

cor_asym_at2_avg_mean vs run
χ² / ndf 90.86 / 88
p0 −2457 ± 1772
pull
Entries 89
Mean −6277
Std Dev 0

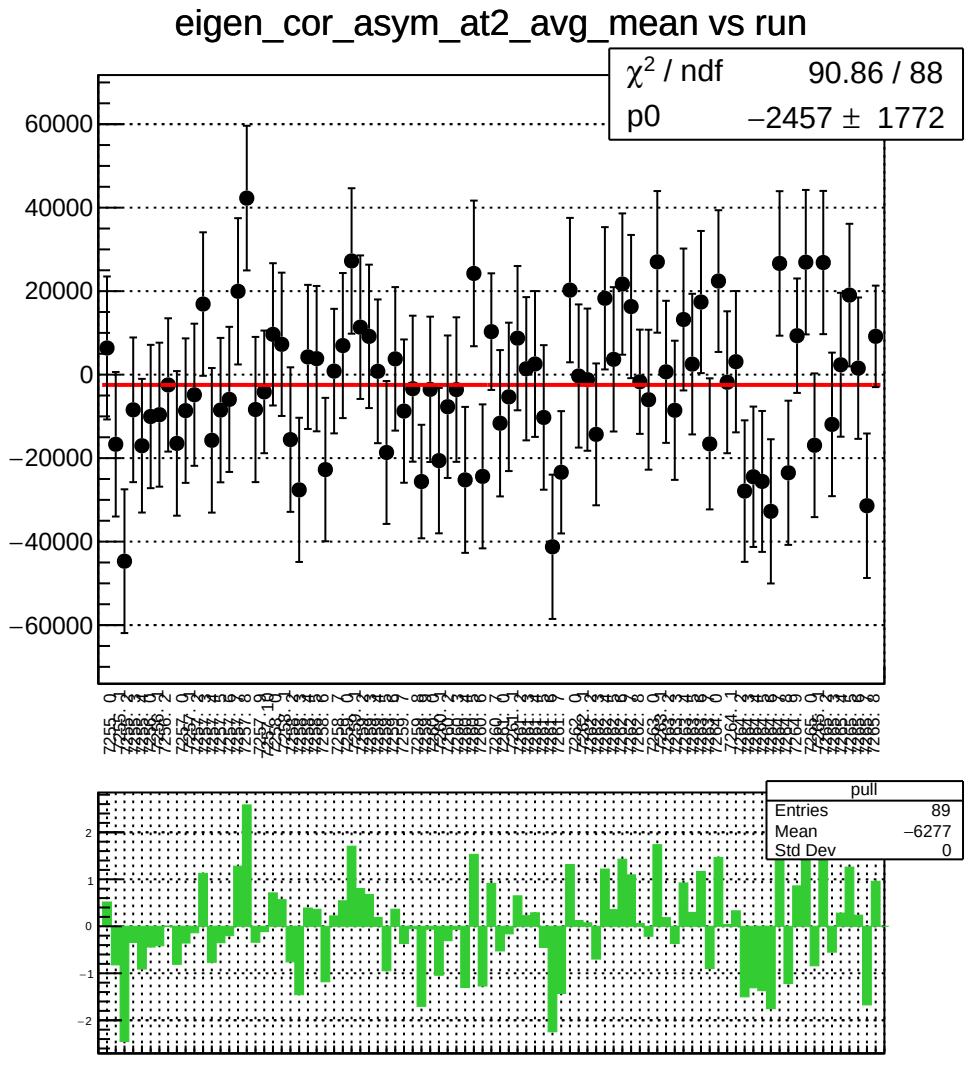

pull1D
Entries 89
Mean −0.0004865
Std Dev 1.01

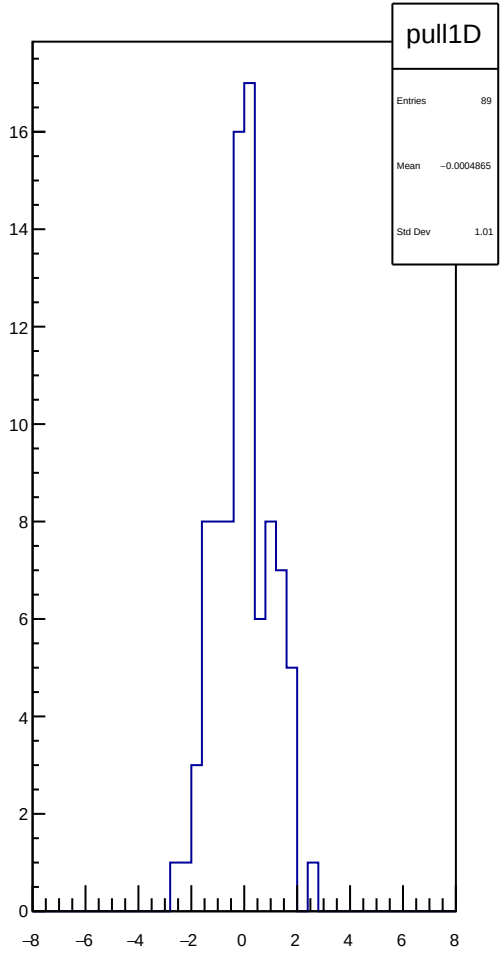

cor_asym_at2_avg_rms vs run
χ² / ndf 213.3 / 88
p0 1631 ± 1.253
1700
1680
1660
1640
1620
1600
1580
1560

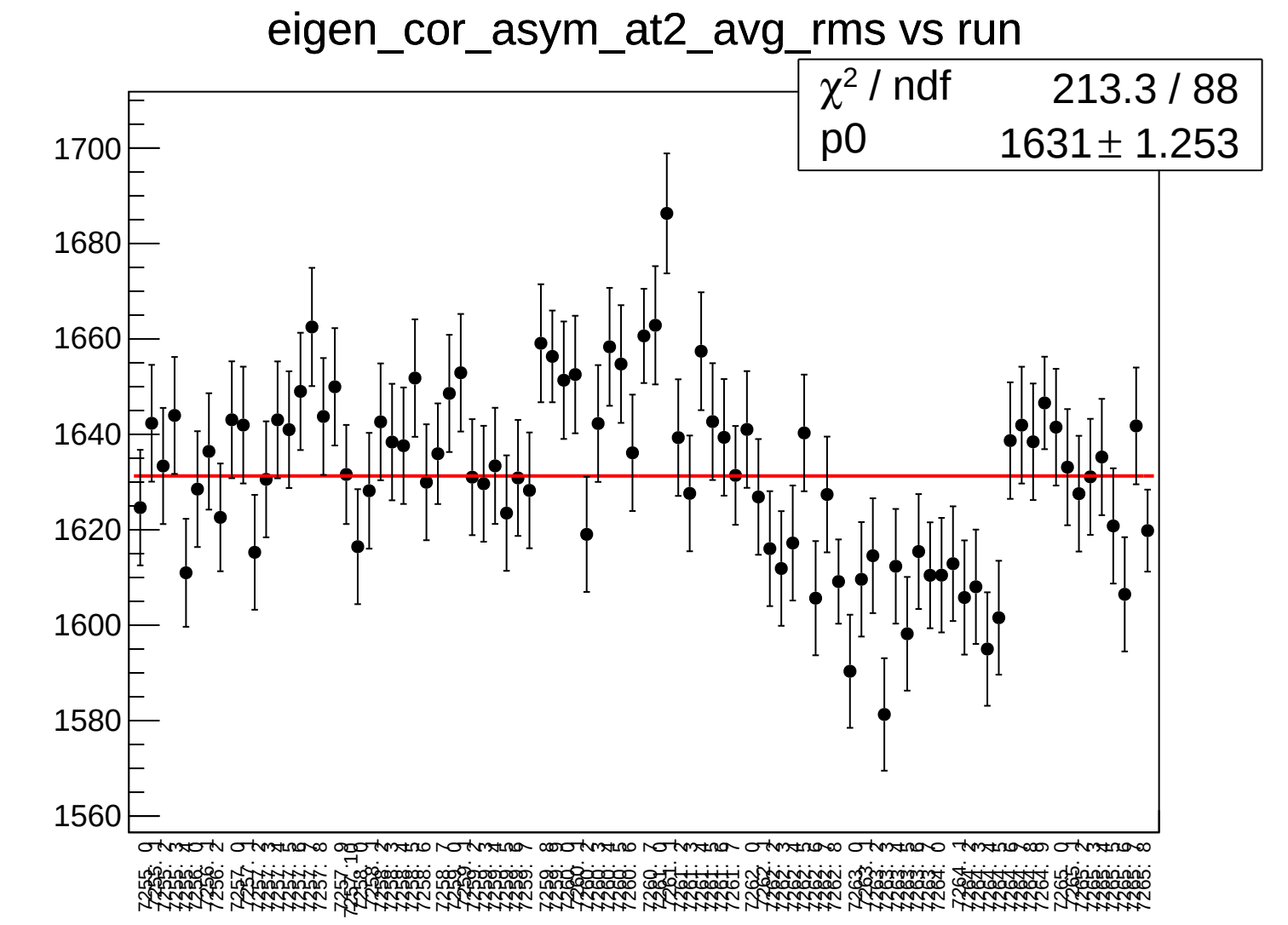

asym_at2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.03 / 88
p0 6819 ± 9876
pull
Entries 89
Mean 1270
Std Dev 0

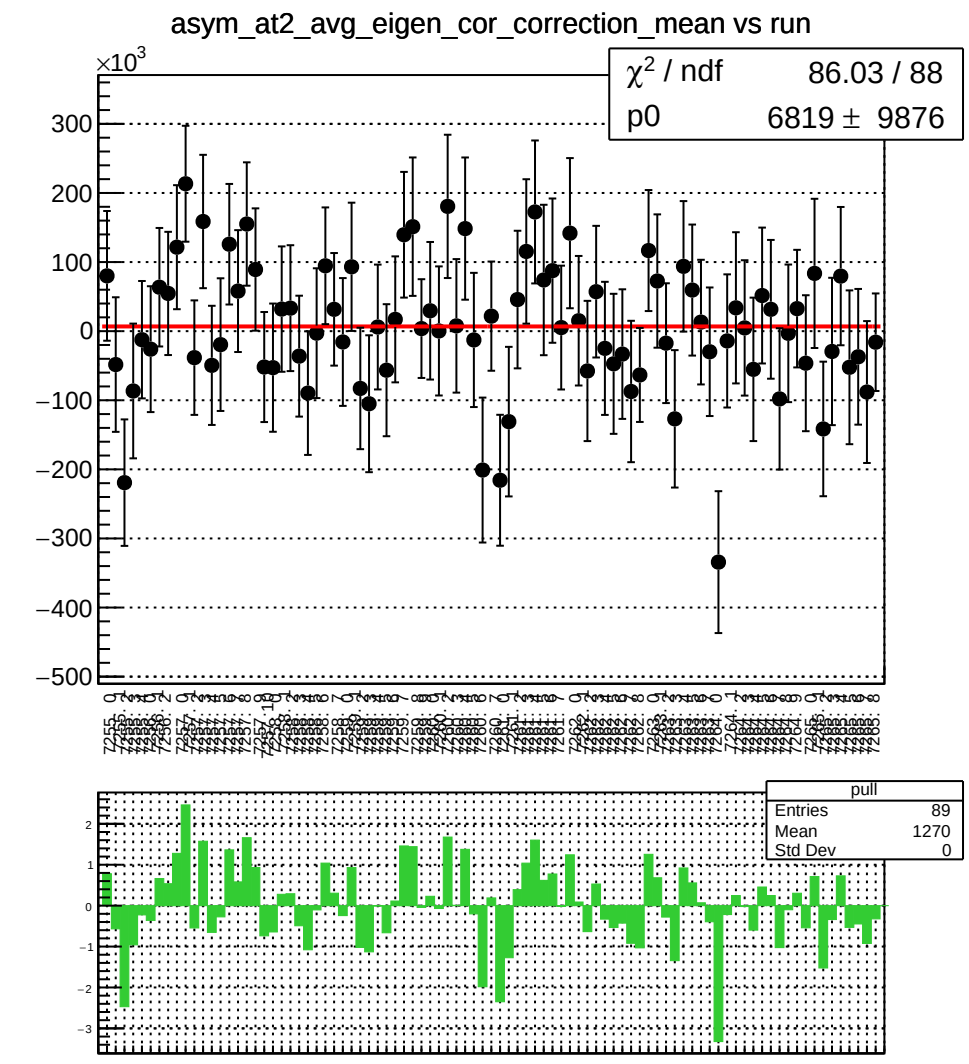

pull1D
Entries 89
Mean −0.003363
Std Dev 0.9832

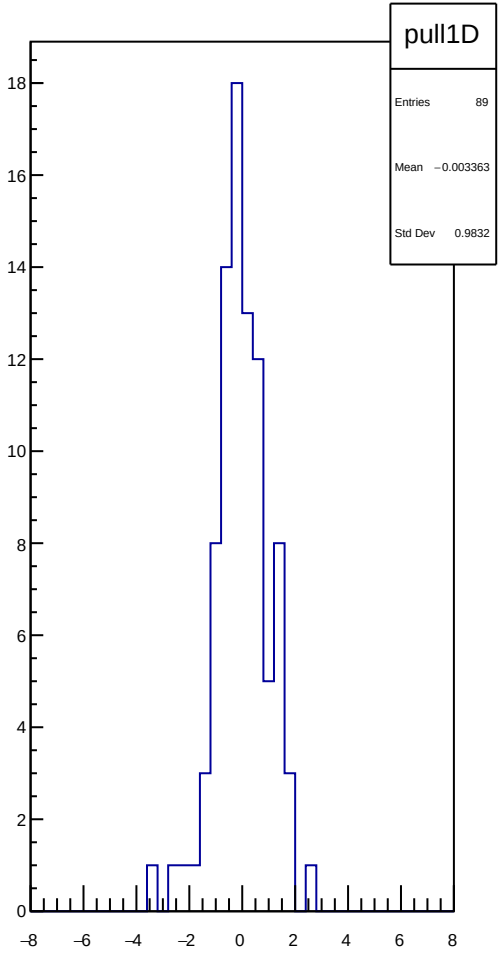

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 7647 / 88
p0 9072 ± 6.984
10500
10000
9500
9000
8500
8000

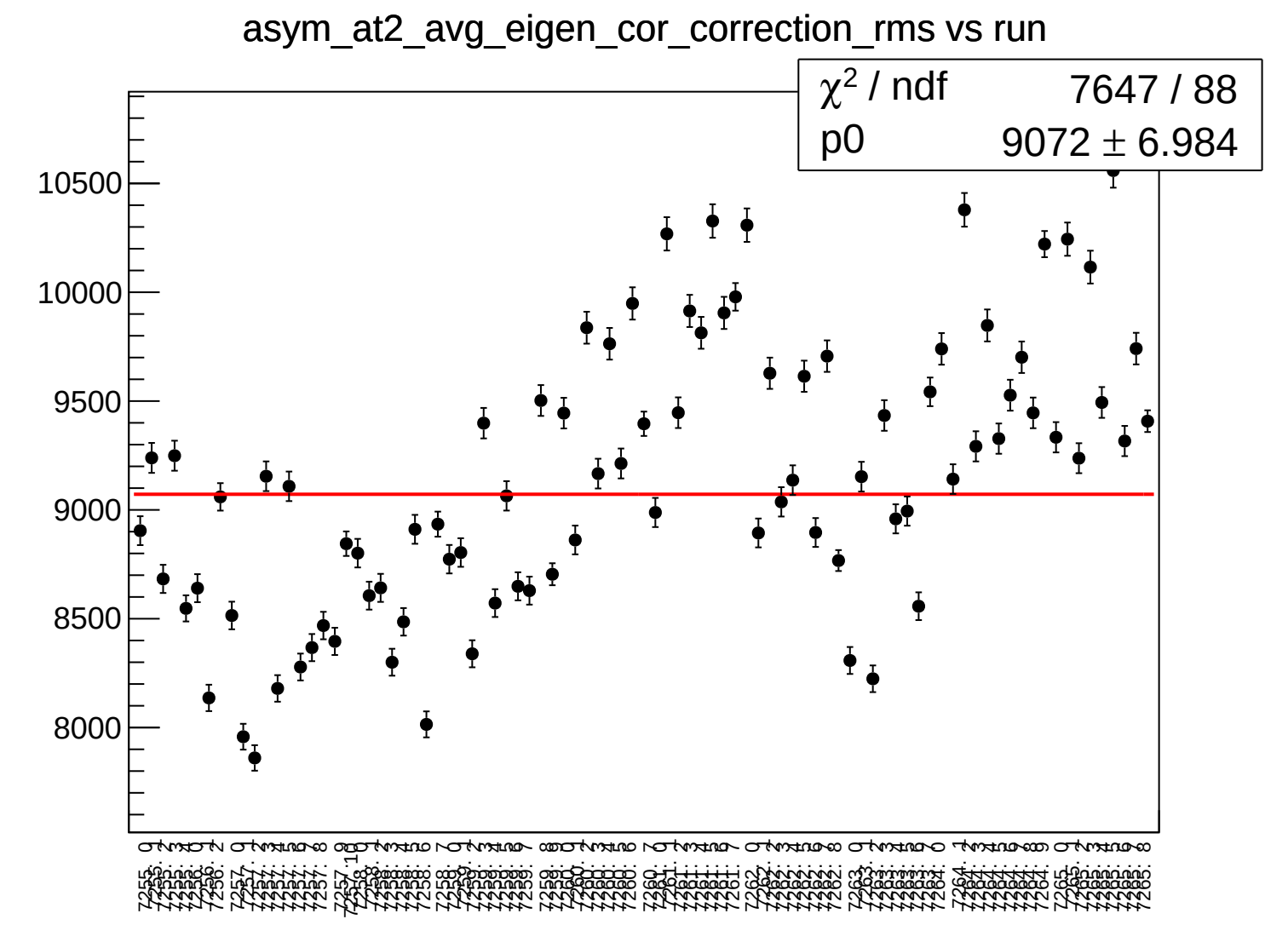

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 90.86 / 88
p0 −2457 ± 1772
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −6277
Std Dev 0
2
1
0
−1
−2

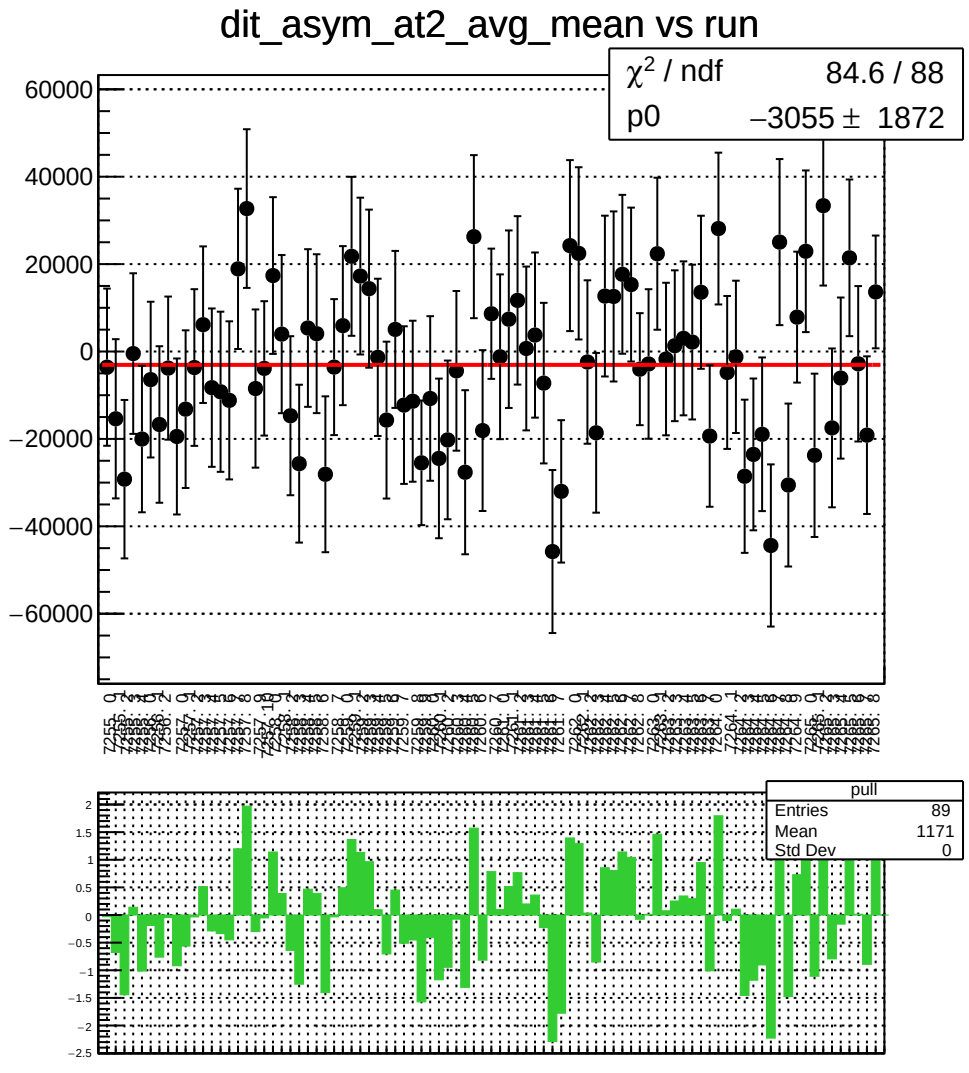

pull1D
Entries 89
Mean −0.0004865
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

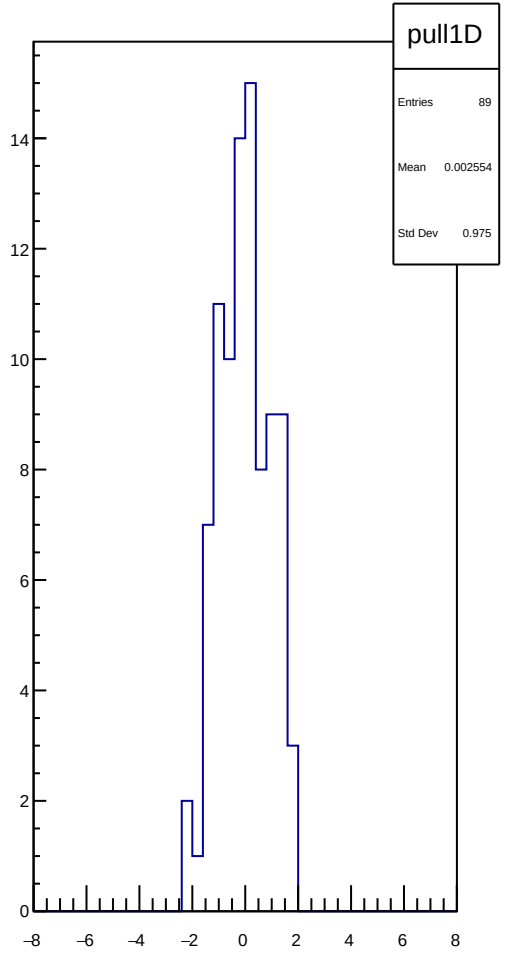

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 213.3 / 88
p0 1631 ± 1.253
1700
1680
1660
1640
1620
1600
1580
1560

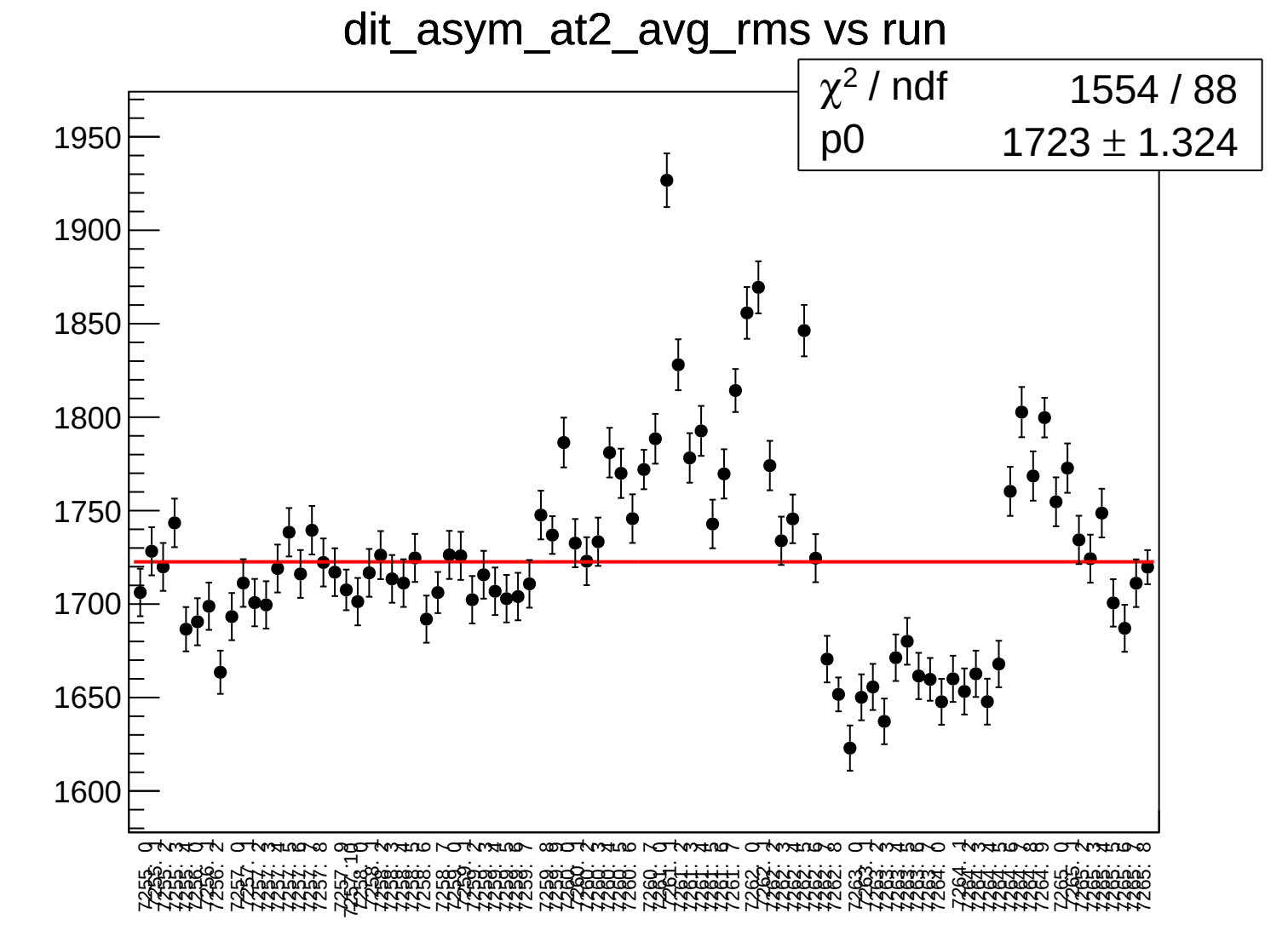

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.03 / 88
p0 6819 ± 9876
pull
Entries 89
Mean 1270
Std Dev 0

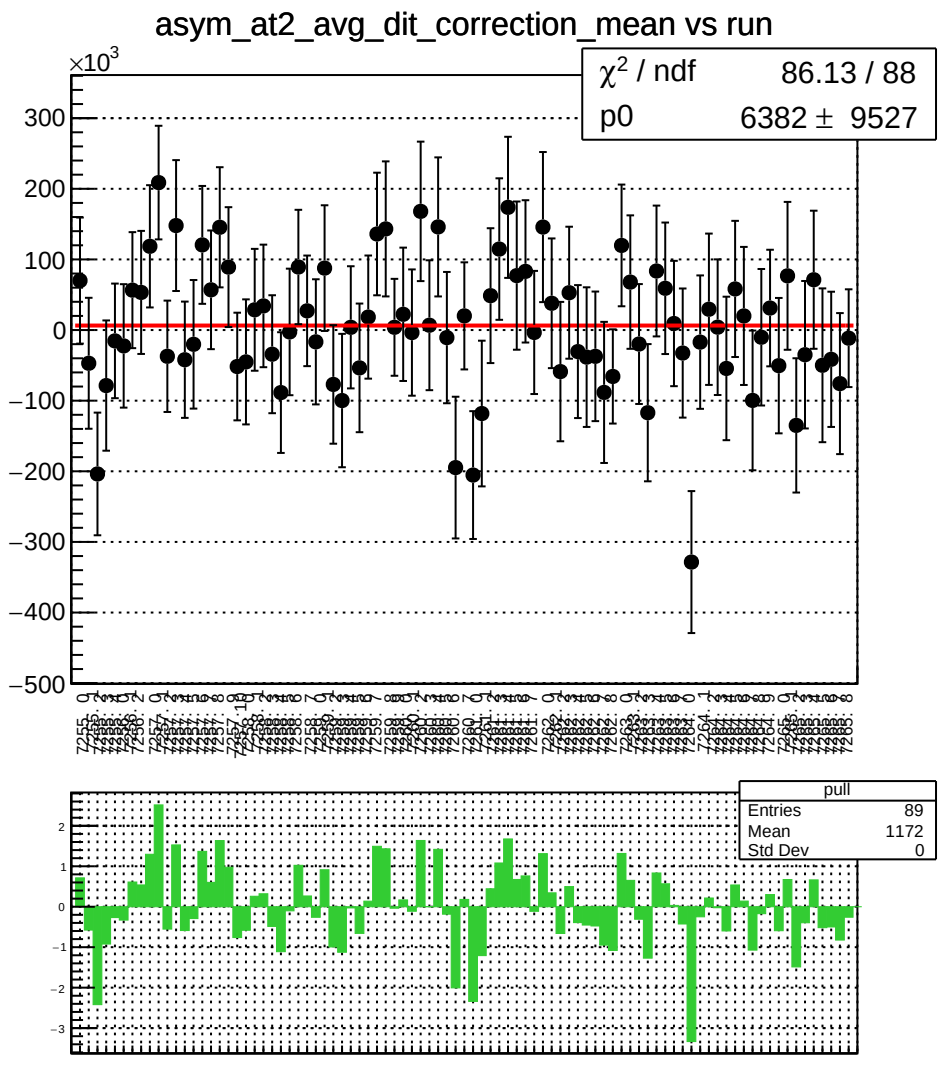

pull1D
Entries 89
Mean −0.003363
Std Dev 0.9832

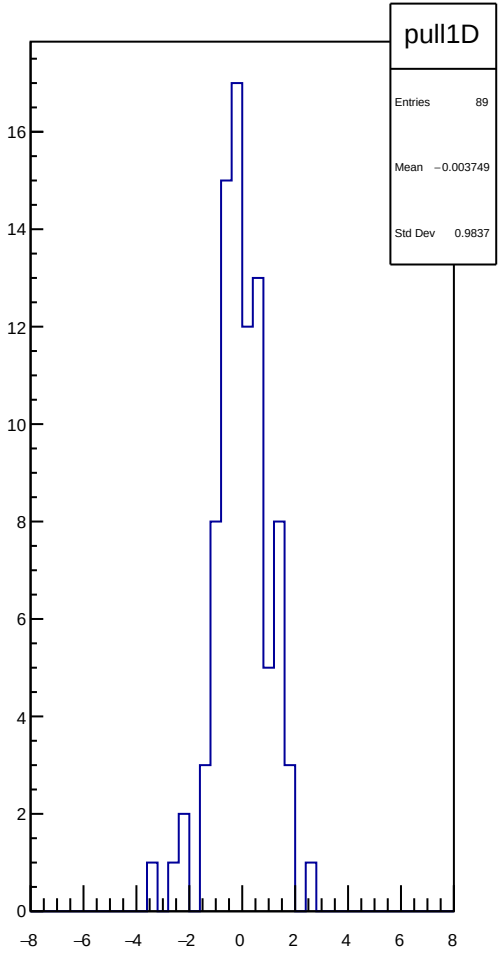

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 7647 / 88
p0 9072 ± 6.984
10500
10000
9500
9000
8500
8000

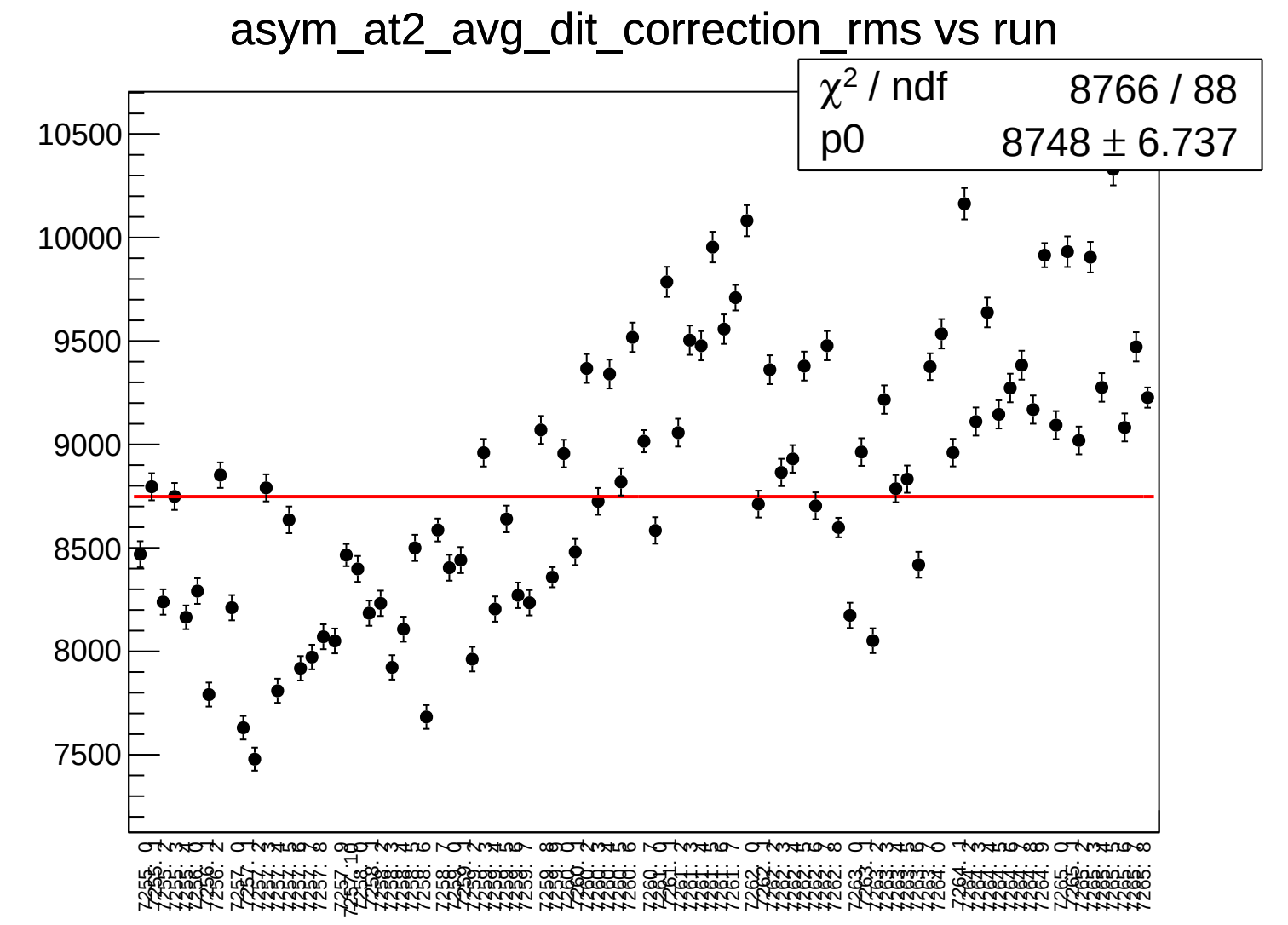

dit_asym_at2_avg_mean vs run
χ² / ndf 84.6 / 88
p0 −3055 ± 1872
pull
Entries 89
Mean 1171
Std Dev 0

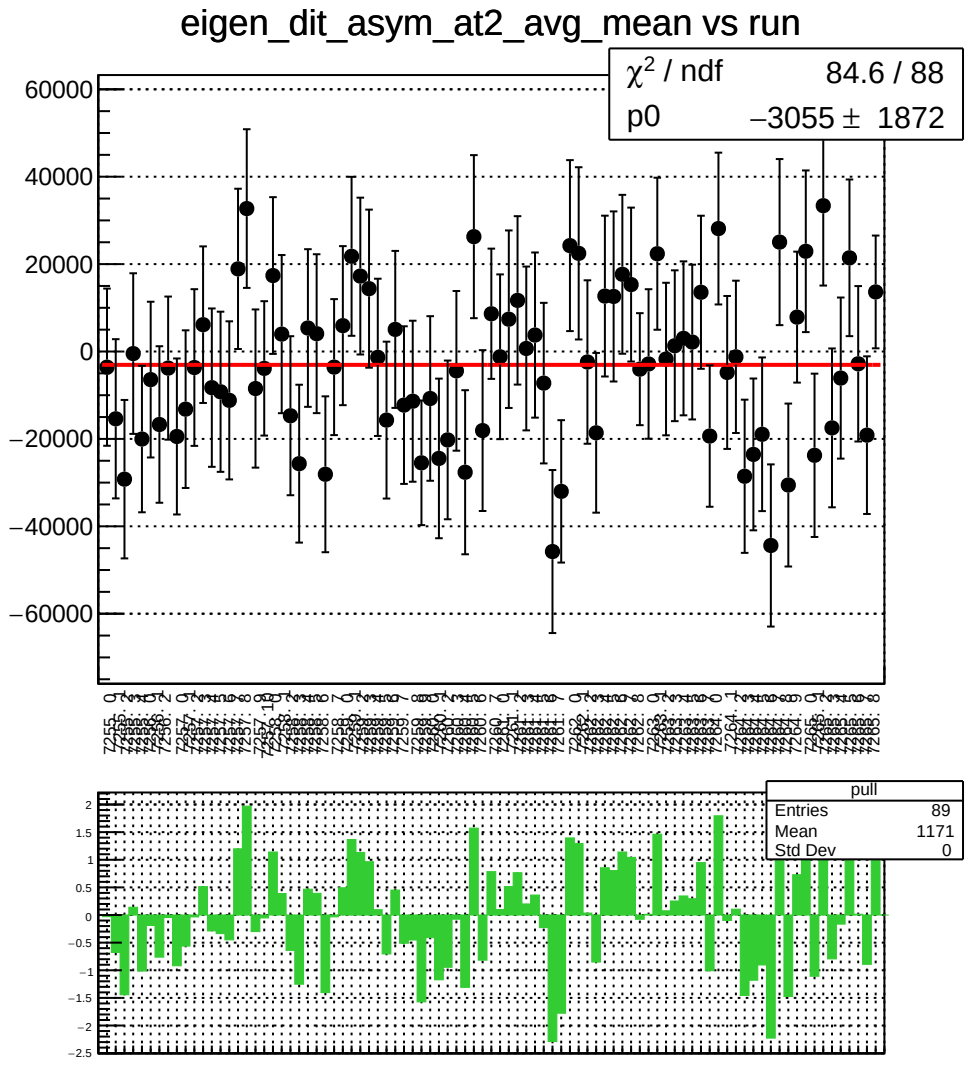

pull1D
Entries 89
Mean 0.002554
Std Dev 0.975

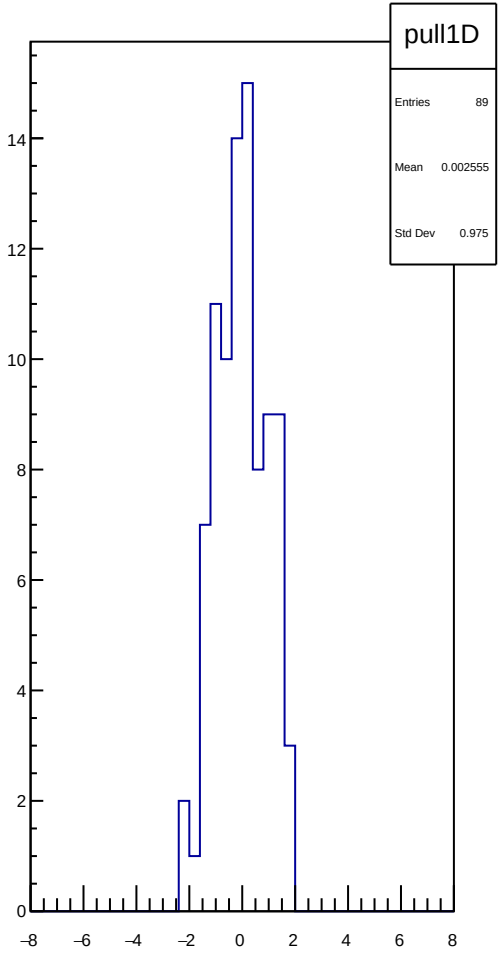

dit_asym_at2_avg_rms vs run
χ² / ndf 1554 / 88
p0 1723 ± 1.324
1950
1900
1850
1800
1750
1700
1650
1600

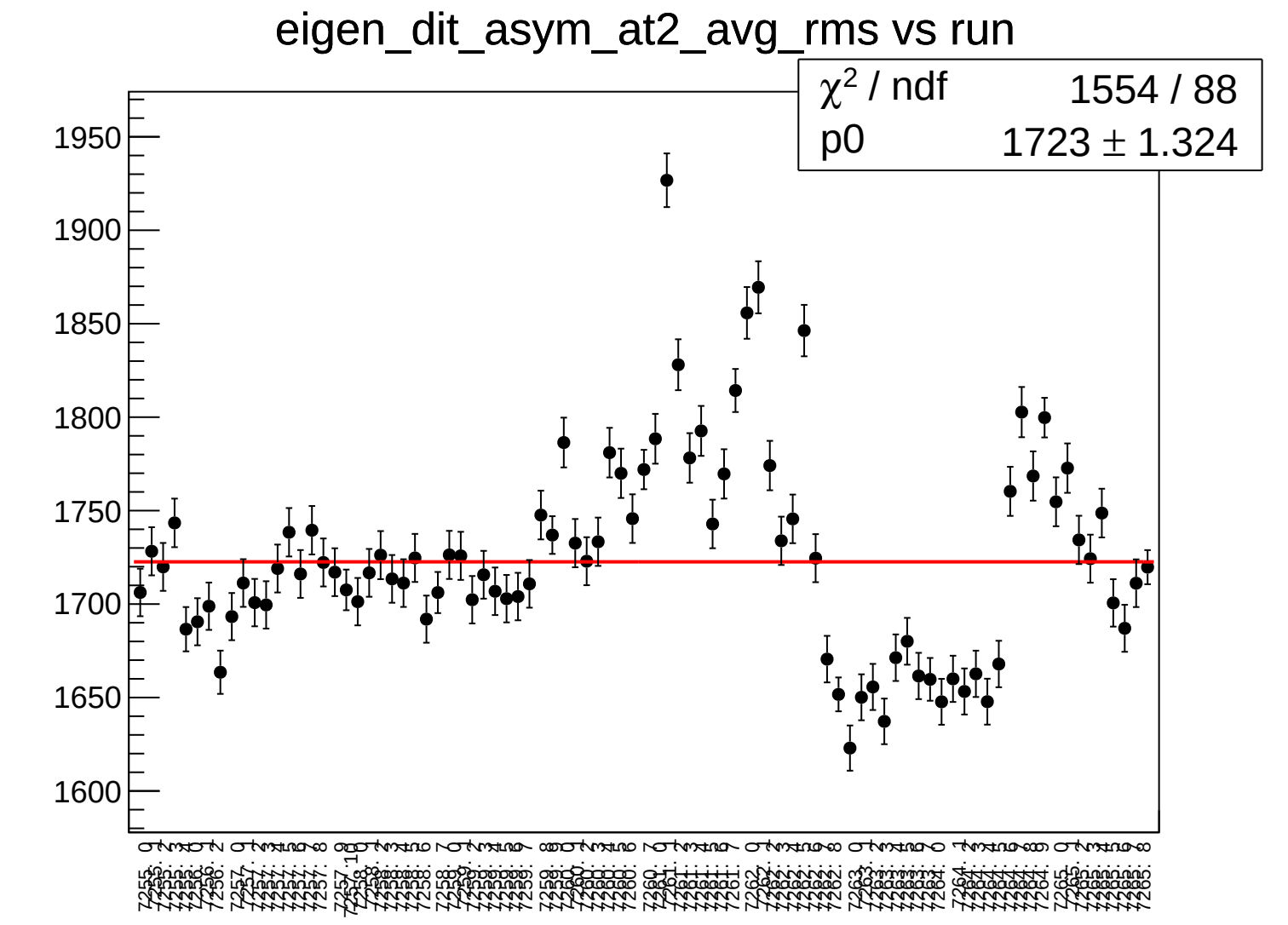

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.13 / 88
p0 6382 ± 9527
pull
Entries 89
Mean 1172
Std Dev 0

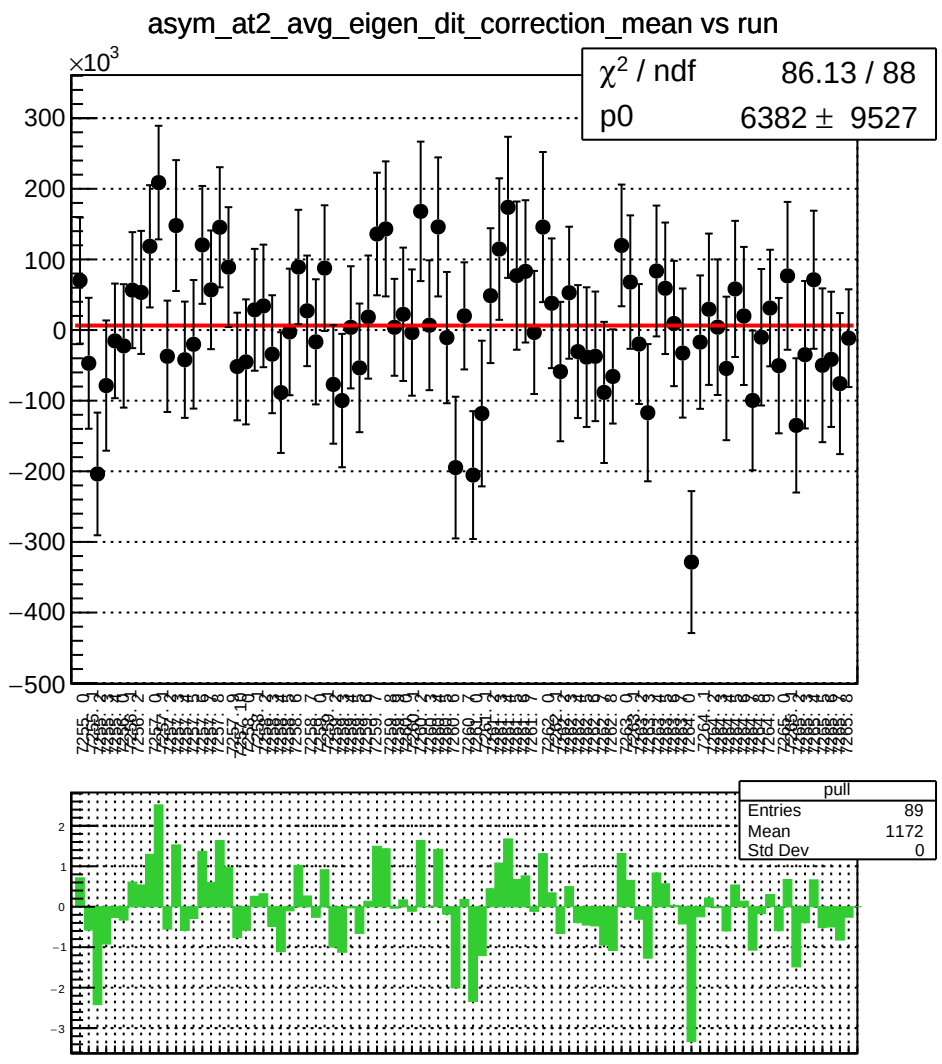

pull1D
Entries 89
Mean −0.003749
Std Dev 0.9837

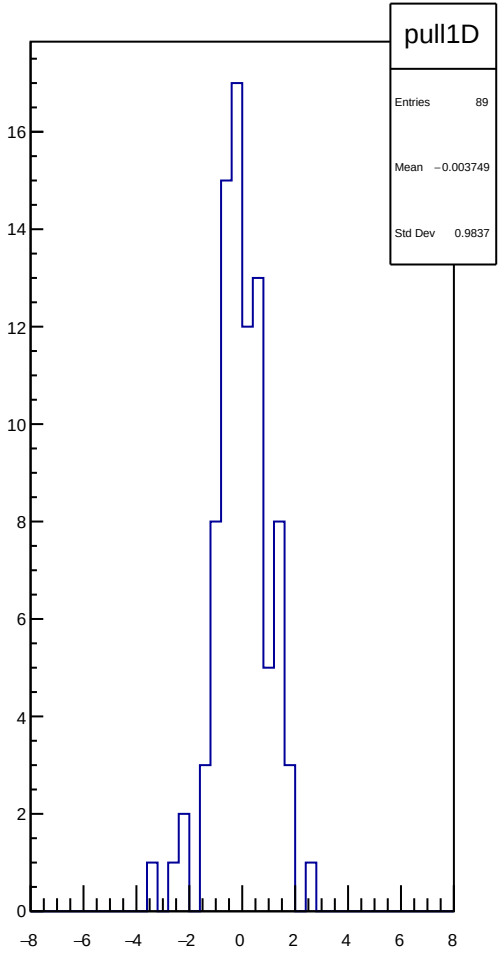

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 8766 / 88
p0 8748 ± 6.737
10500
10000
9500
9000
8500
8000
7500

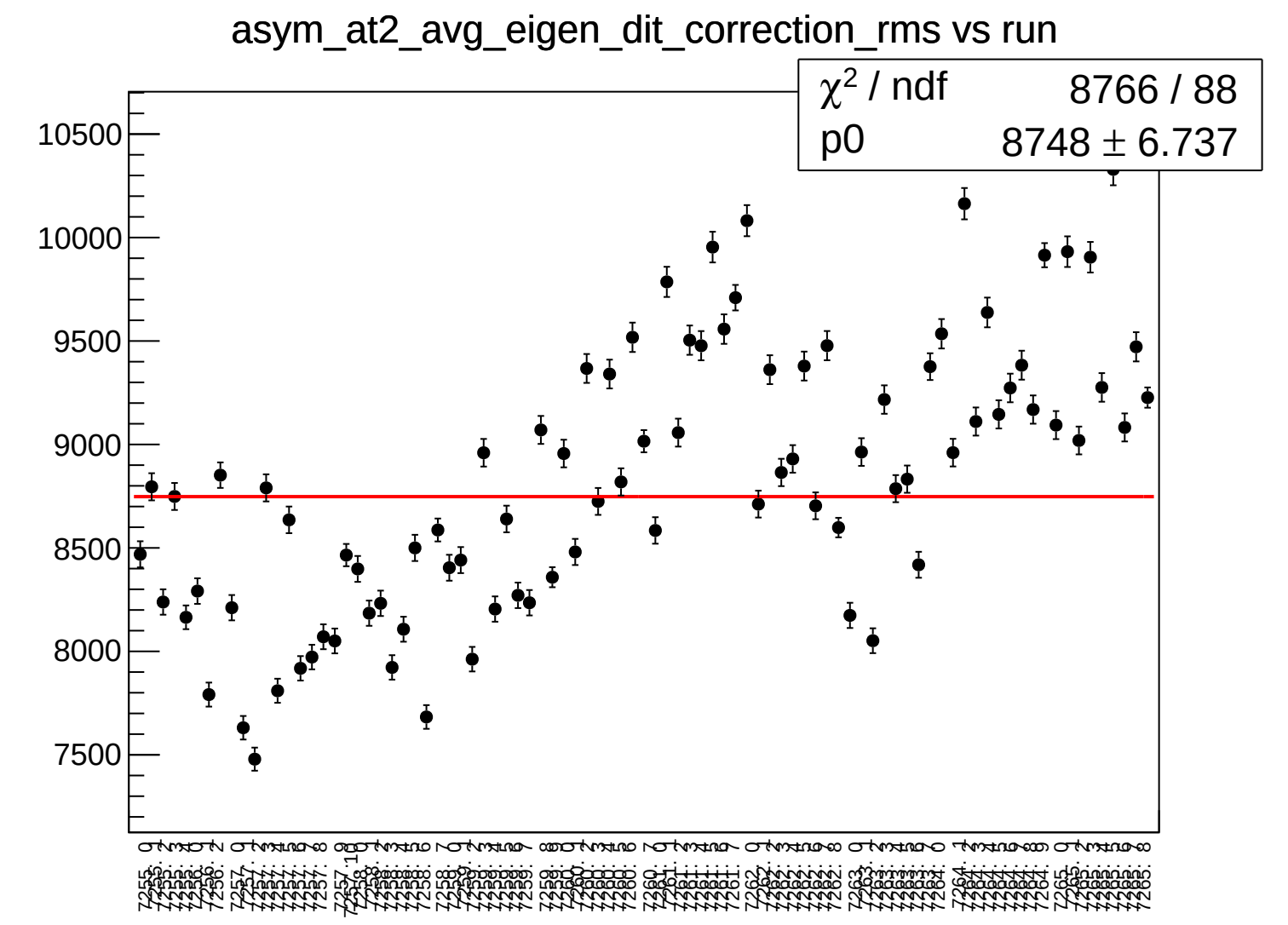

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 84.6 / 88
p0 −3055 ± 1872
pull
Entries 89
Mean 1171
Std Dev 0

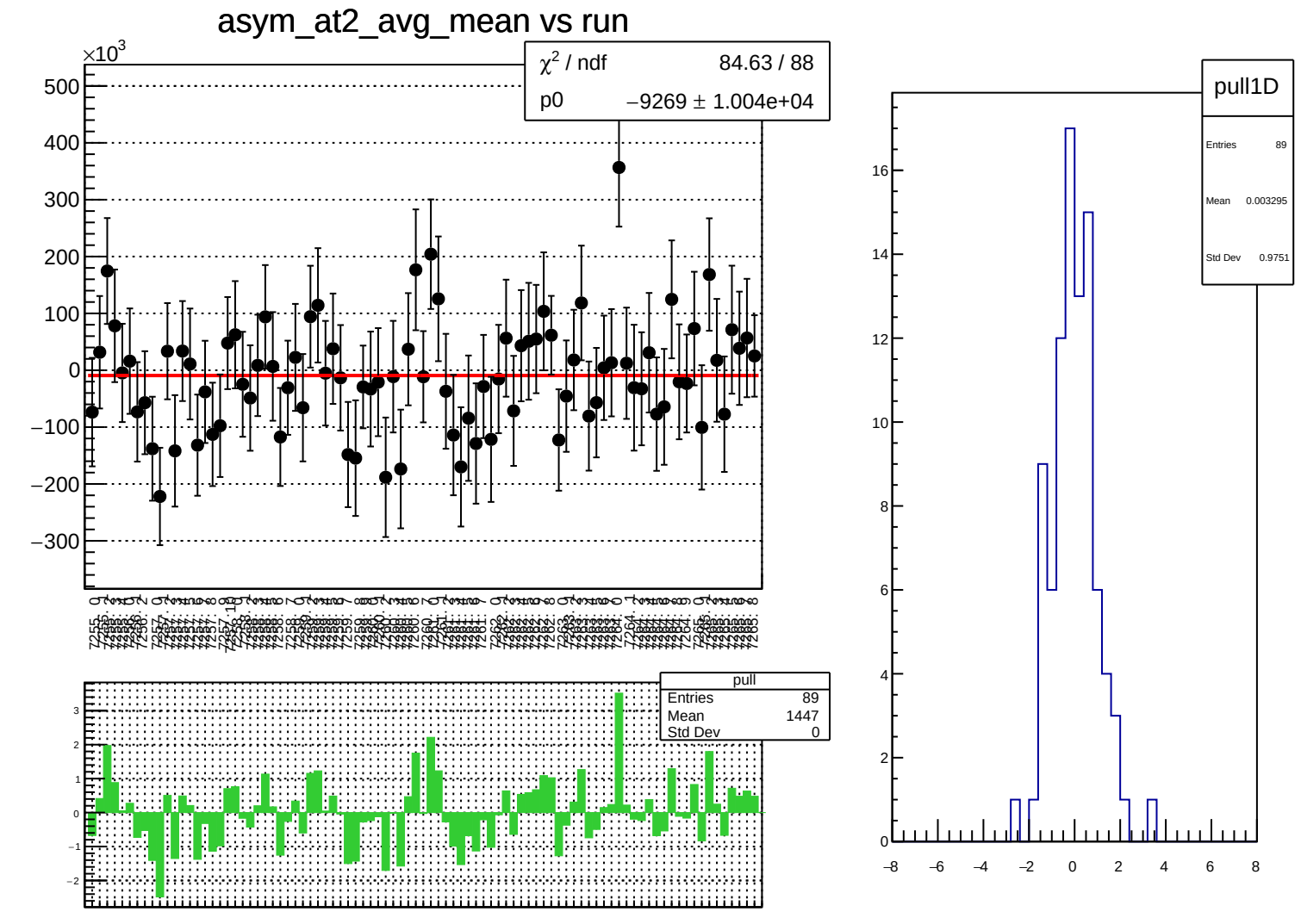

pull1D
Entries 89
Mean 0.002555
Std Dev 0.975

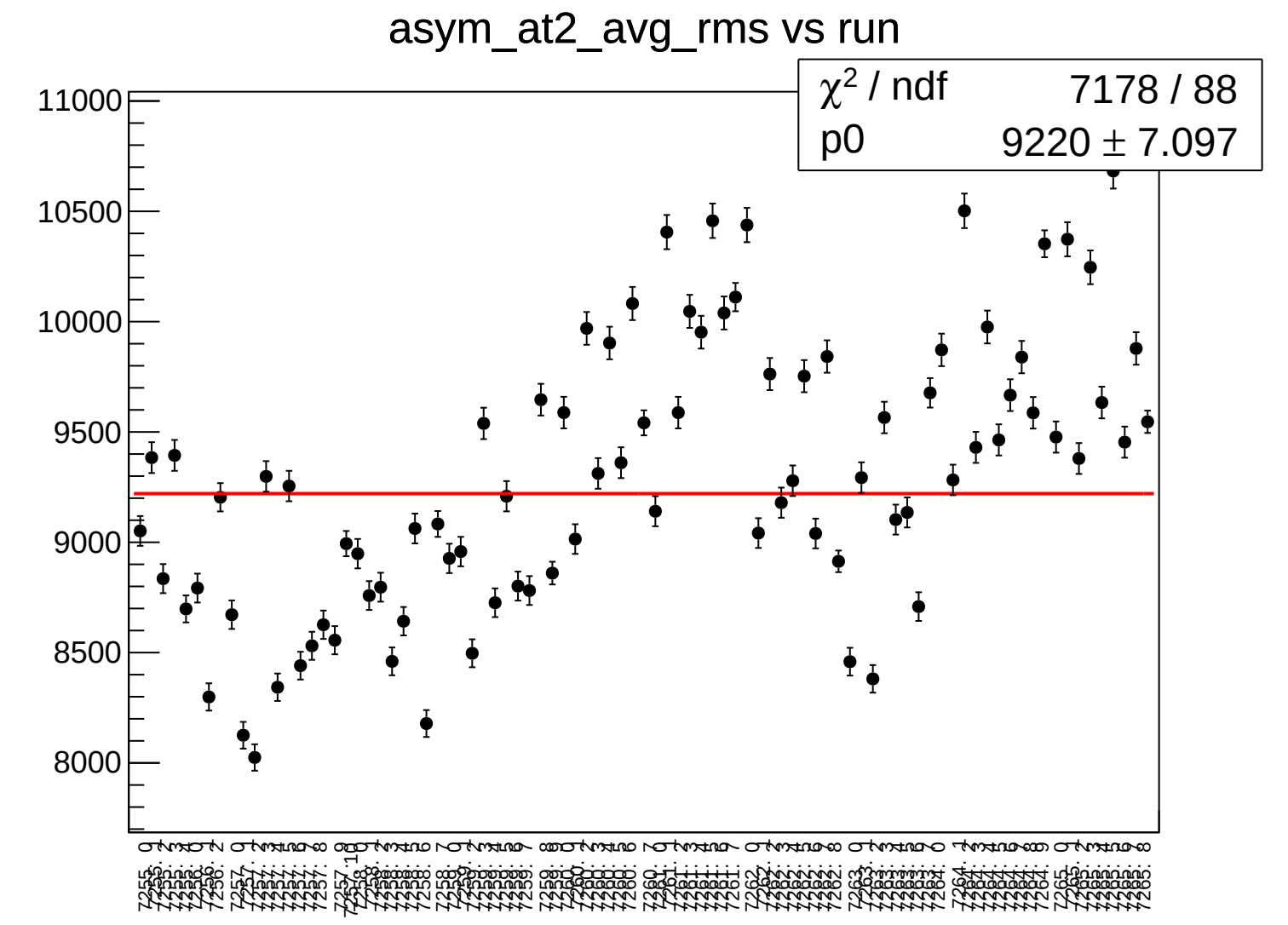

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 1554 / 88
p0 1723 ± 1.324
1950
1900
1850
1800
1750
1700
1650
1600

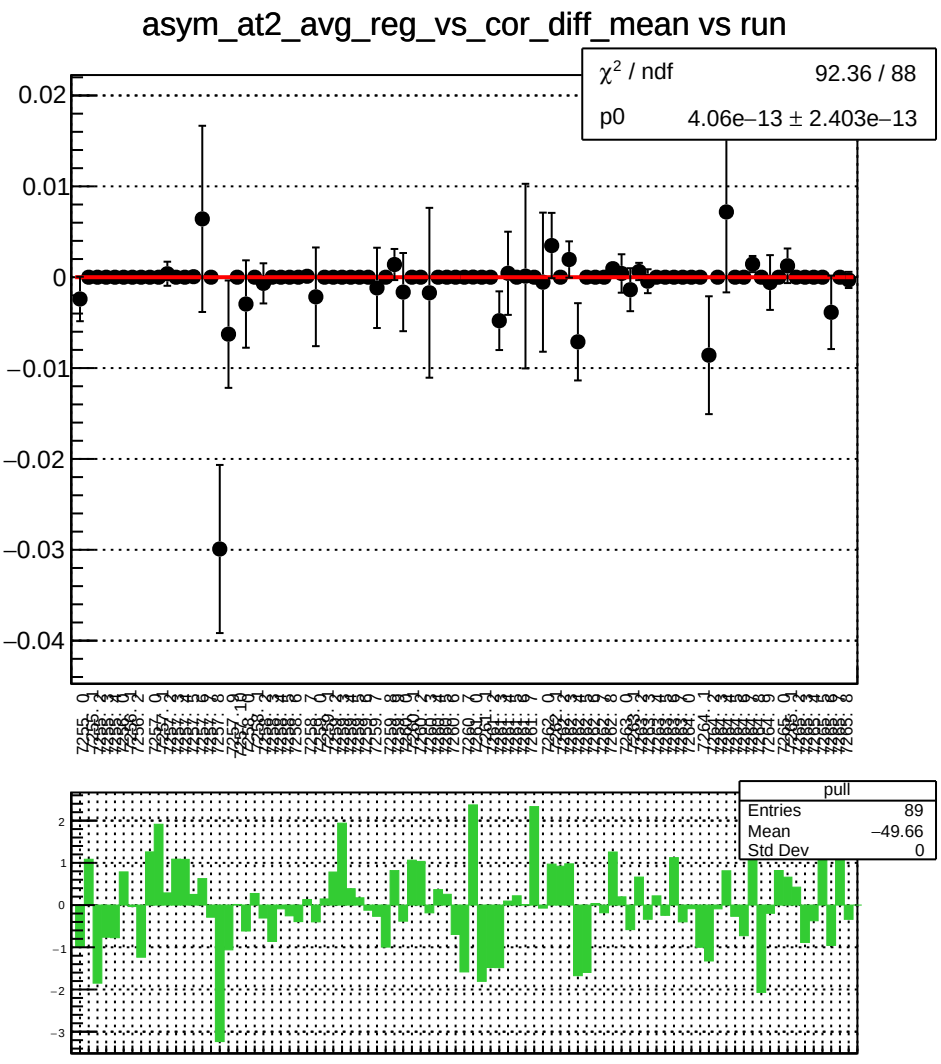

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.13 / 88
p0 6382 ± 9527
pull
Entries 89
Mean 1172
Std Dev 0

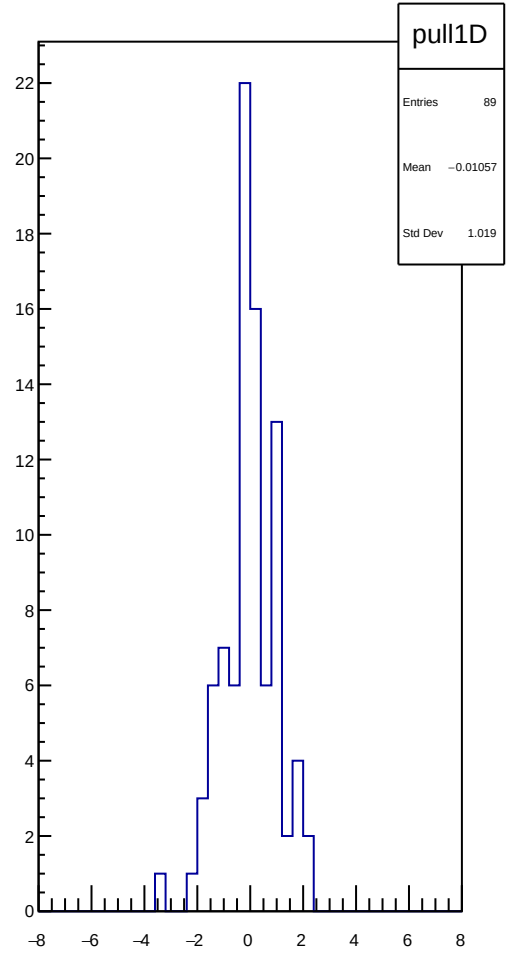

pull1D
Entries 89
Mean −0.003749
Std Dev 0.9837

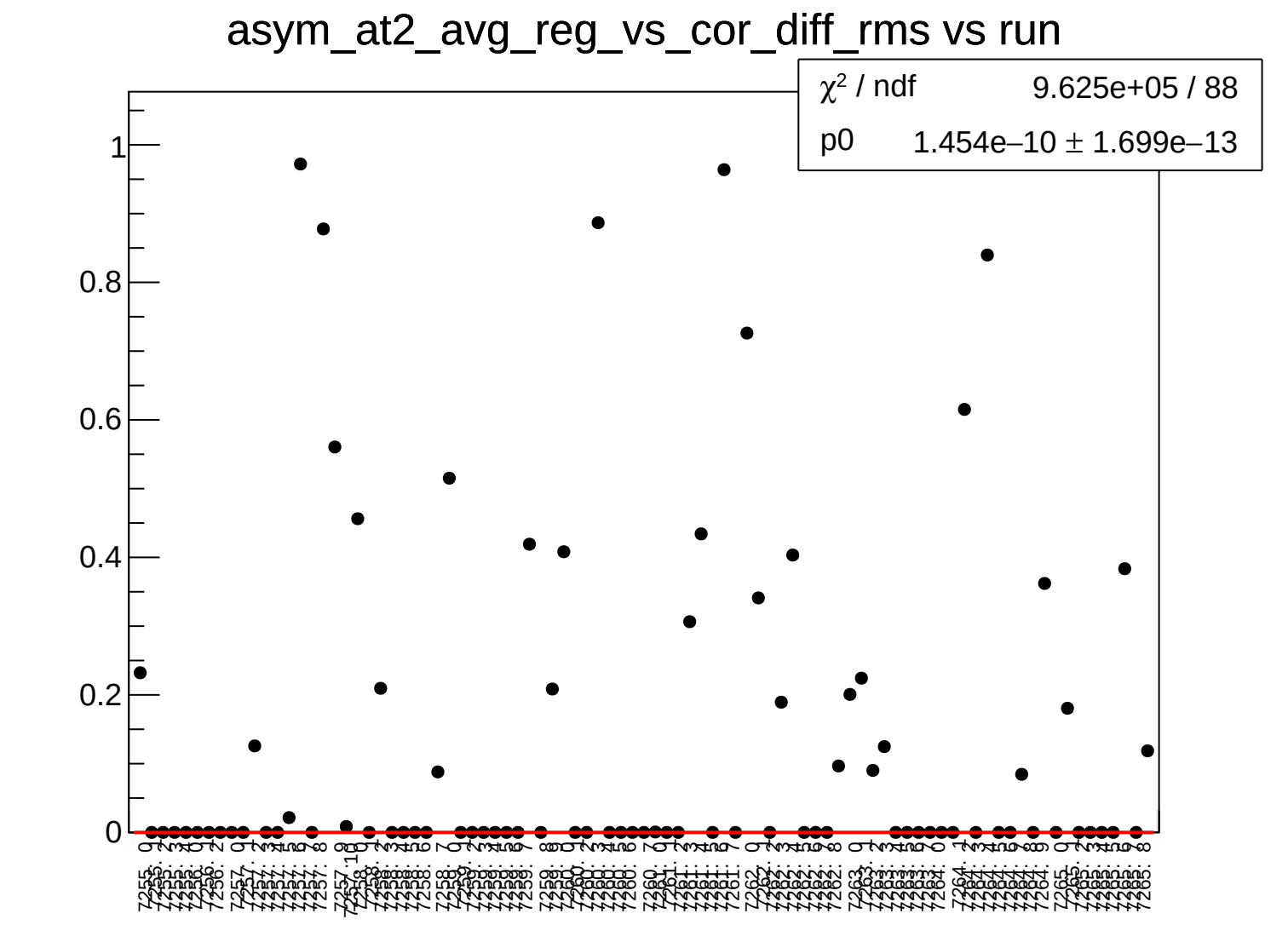

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 8766 / 88
p0 8748 ± 6.737
10500
10000
9500
9000
8500
8000
7500

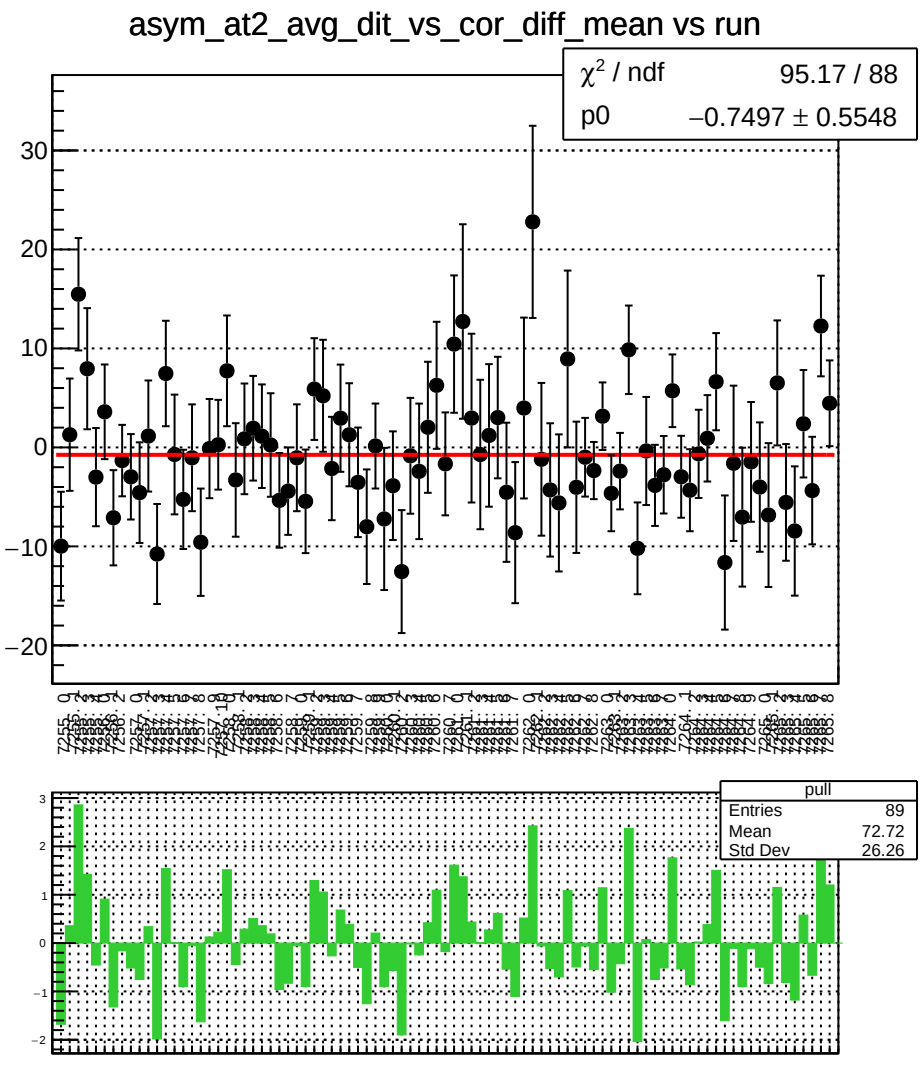

asym_at2_avg_mean vs run
×10^3
χ² / ndf 84.63 / 88
p0 −9269 ± 1.004e+04
pull
Entries 89
Mean 1447
Std Dev 0
pull1D
Entries 89
Mean 0.003295
Std Dev 0.9751

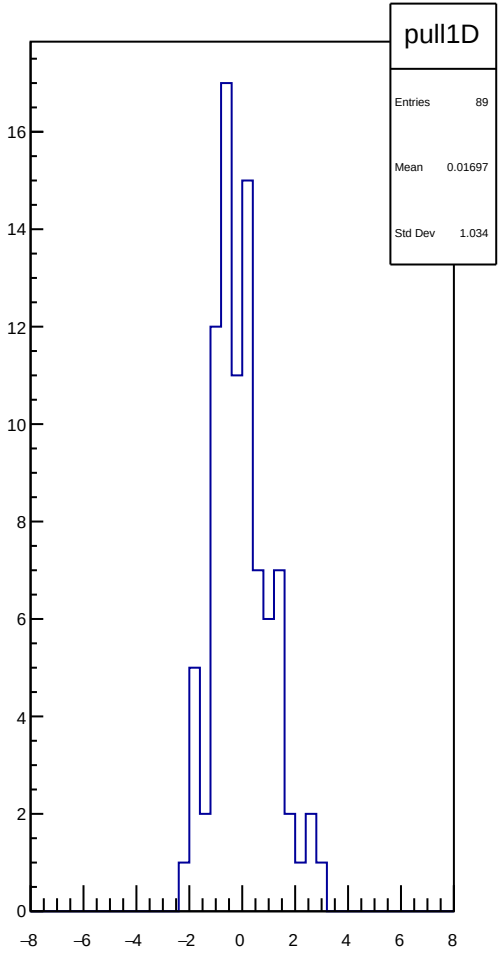

asym_at2_avg_rms vs run
χ² / ndf 7178 / 88
p0 9220 ± 7.097
11000
10500
10000
9500
9000
8500
8000

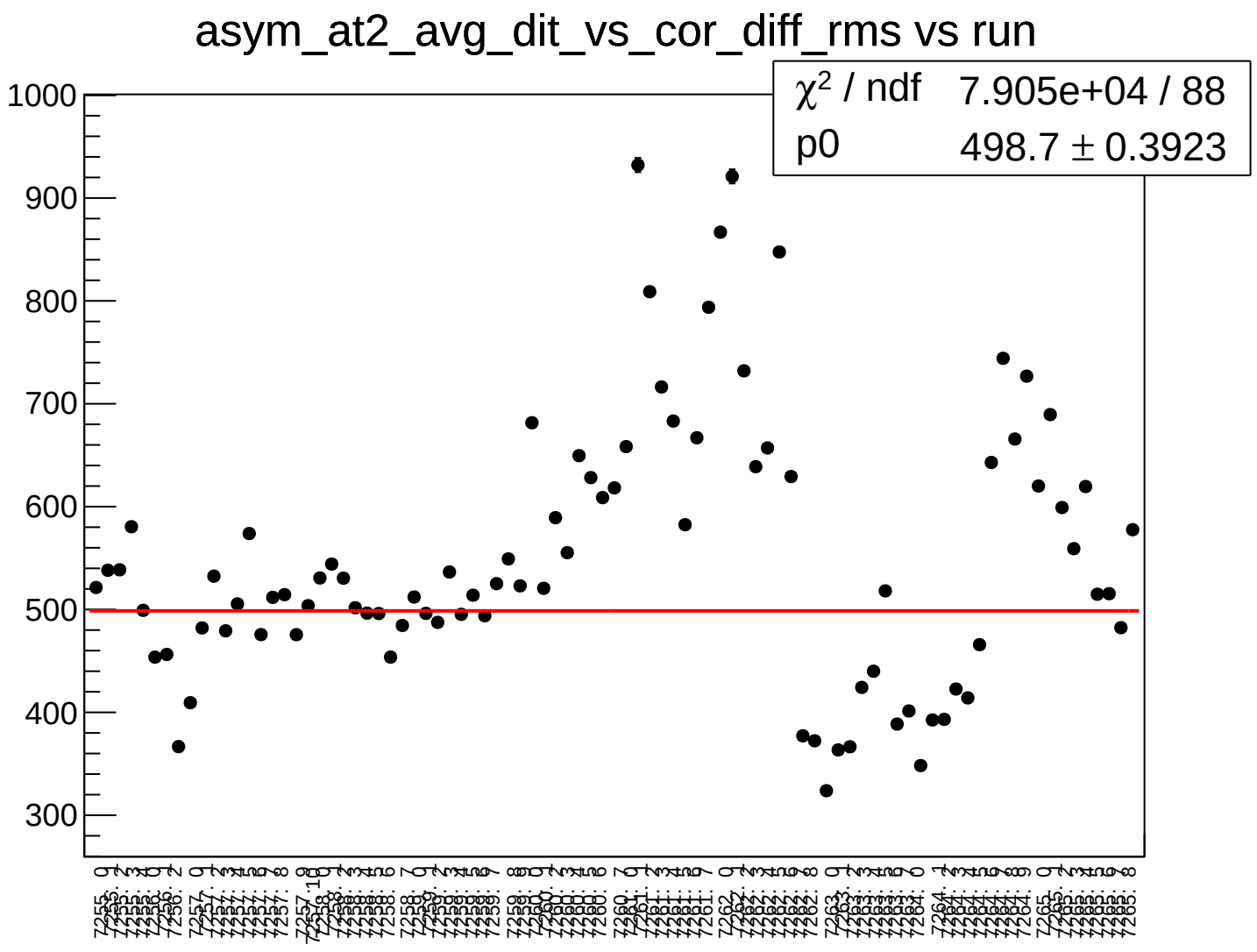

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.36 / 88
p0 4.06e−13 ± 2.403e−13
pull
Entries 89
Mean −49.66
Std Dev 0

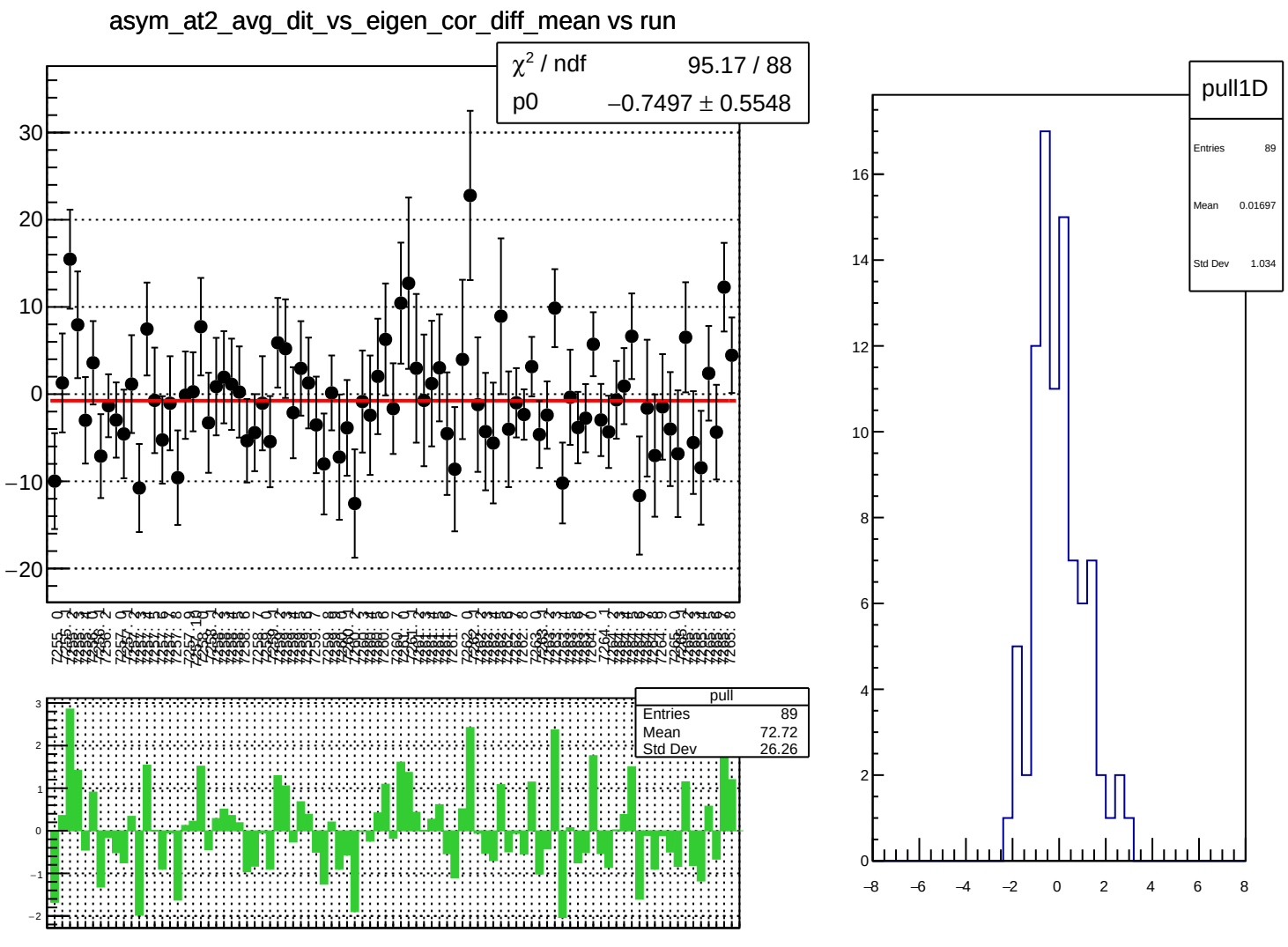

pull1D
Entries 89
Mean −0.01057
Std Dev 1.019

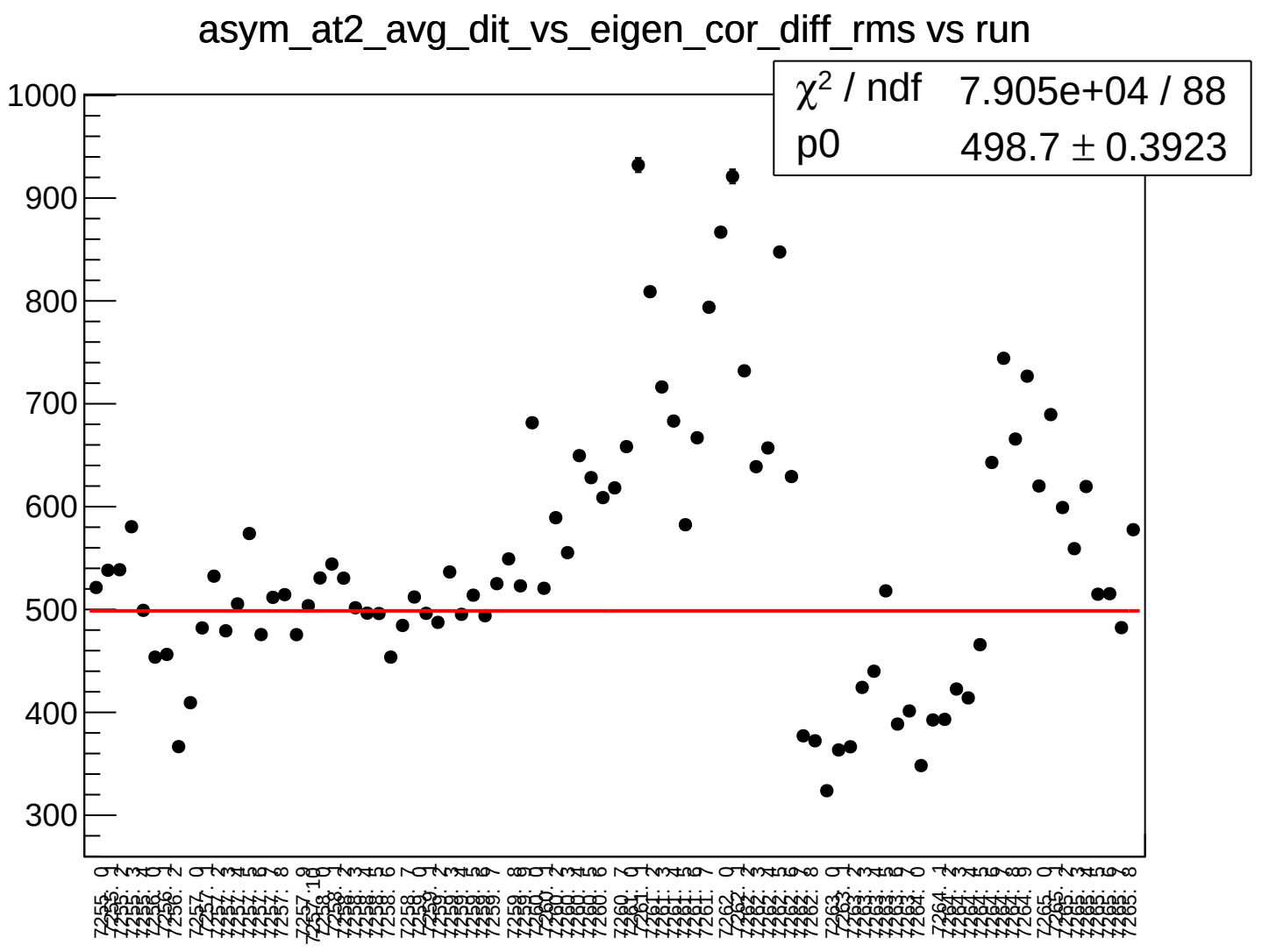

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.625e+05 / 88
p0 1.454e−10 ± 1.699e−13
1
0.8
0.6
0.4
0.2
0

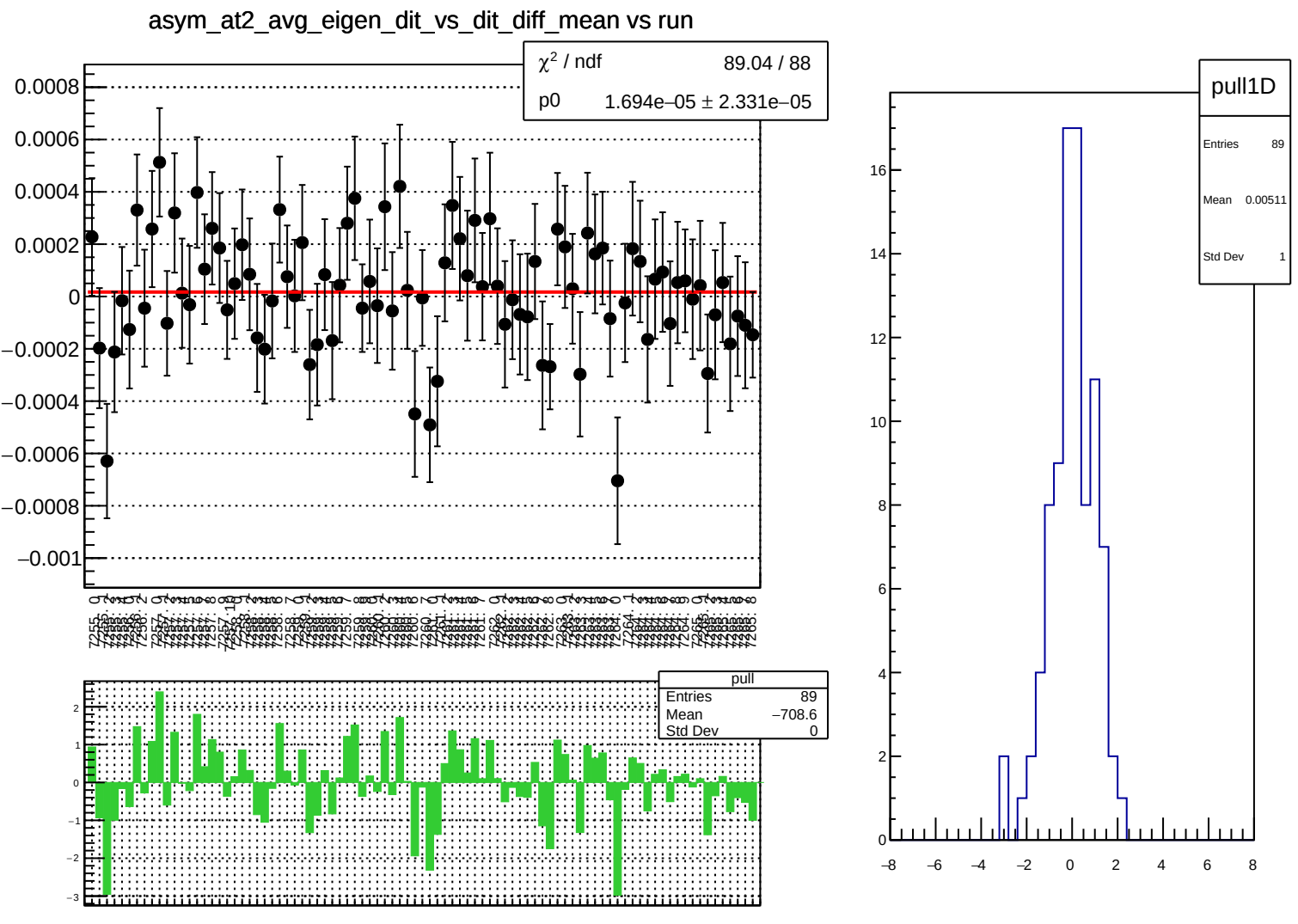

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.17 / 88
p0 −0.7497 ± 0.5548
pull
Entries 89
Mean 72.72
Std Dev 26.26

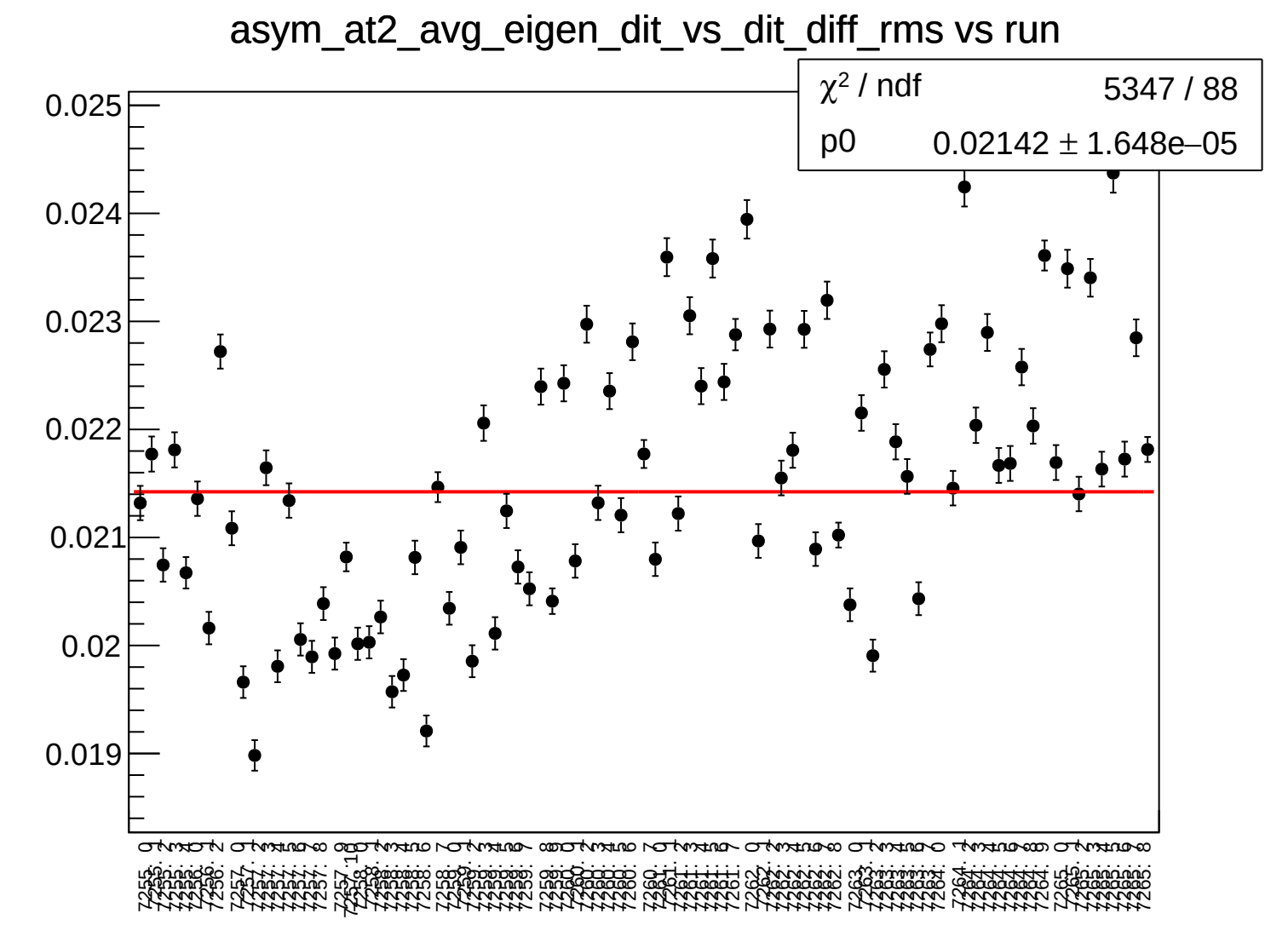

pull1D
Entries 89
Mean 0.01697
Std Dev 1.034

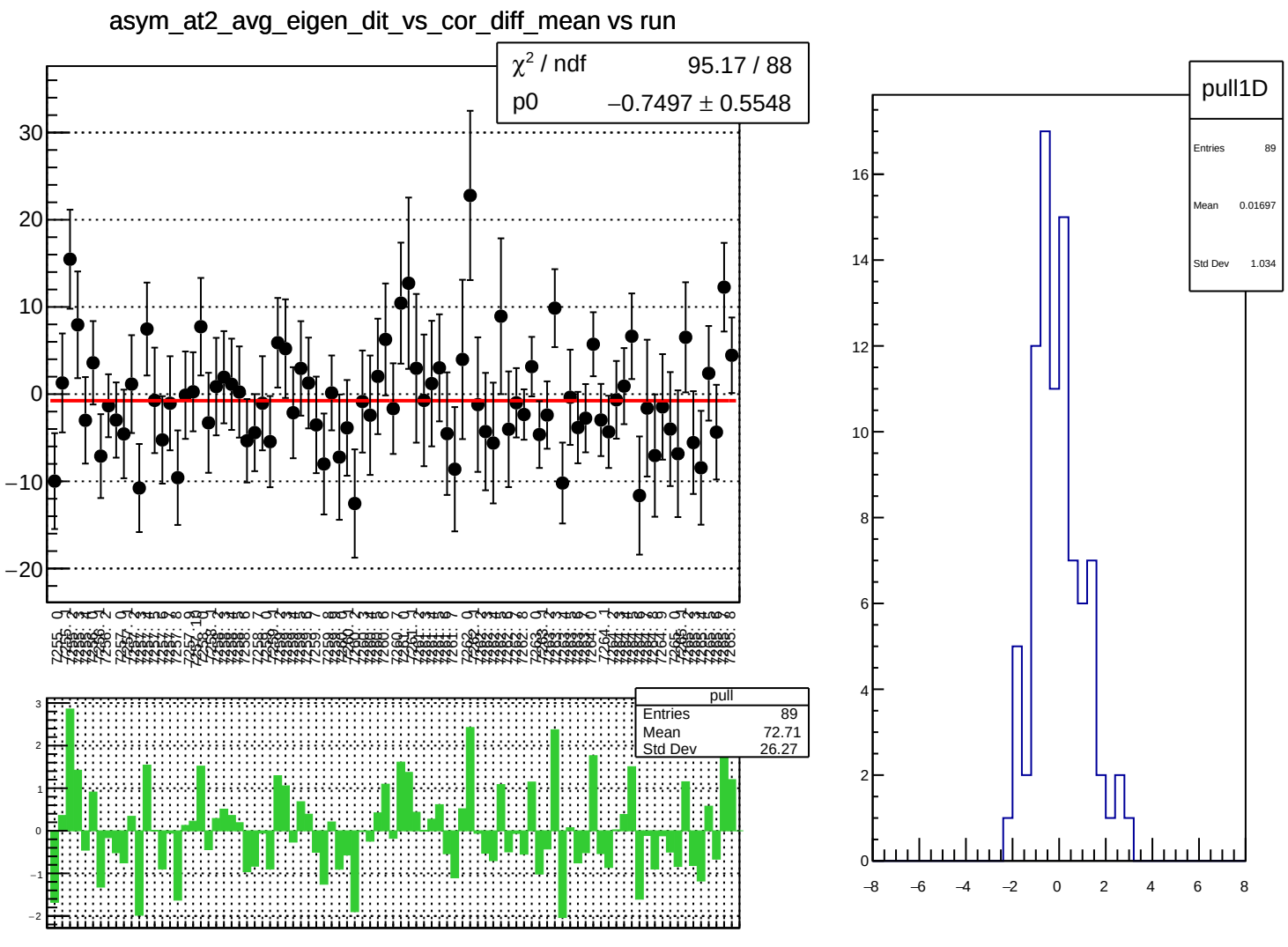

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.905e+04 / 88
p0 498.7 ± 0.3923
1000
900
800
700
600
500
400
300

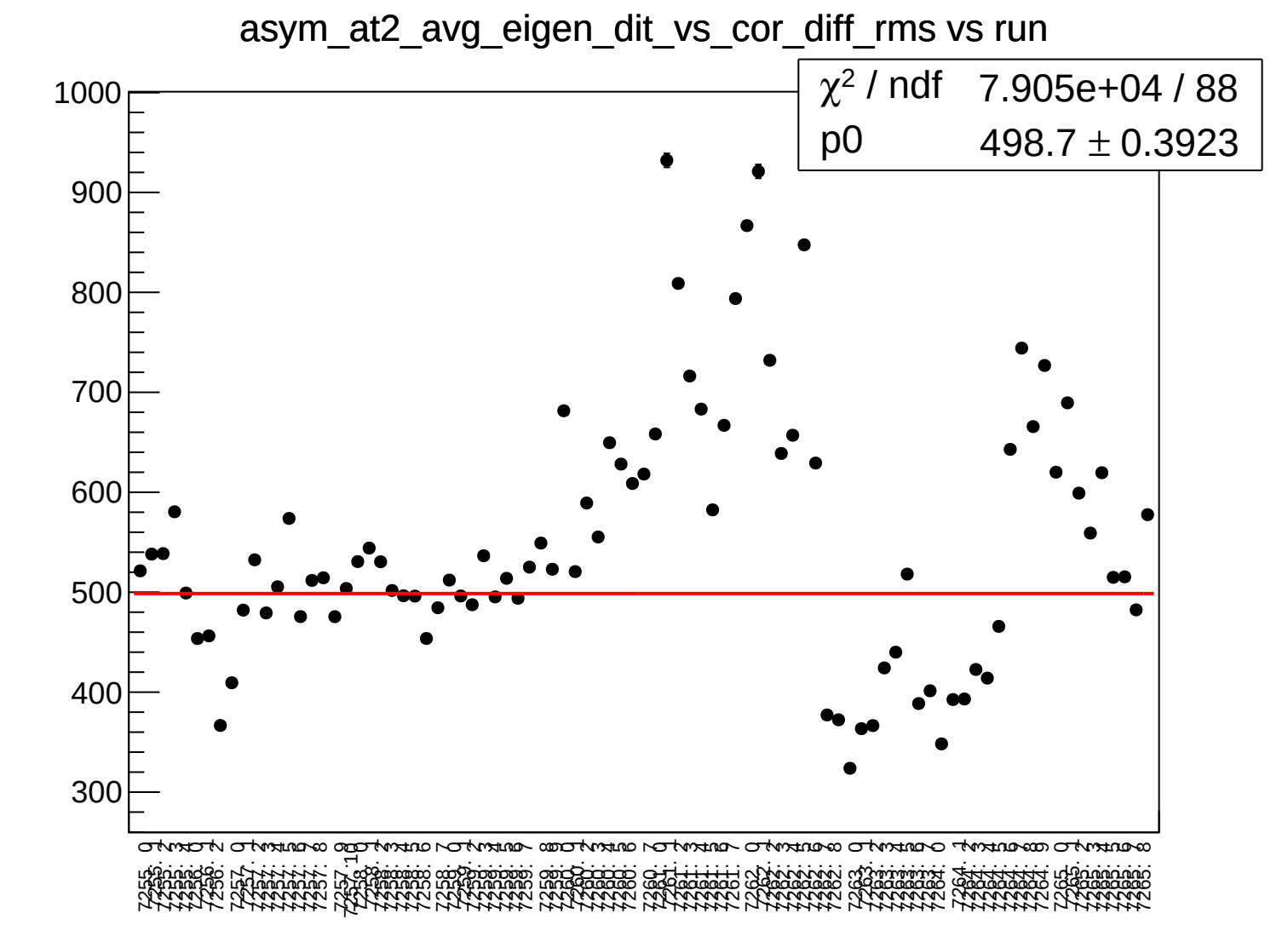

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.17 / 88
p0 −0.7497 ± 0.5548
pull
Entries 89
Mean 72.72
Std Dev 26.26
pull1D
Entries 89
Mean 0.01697
Std Dev 1.034

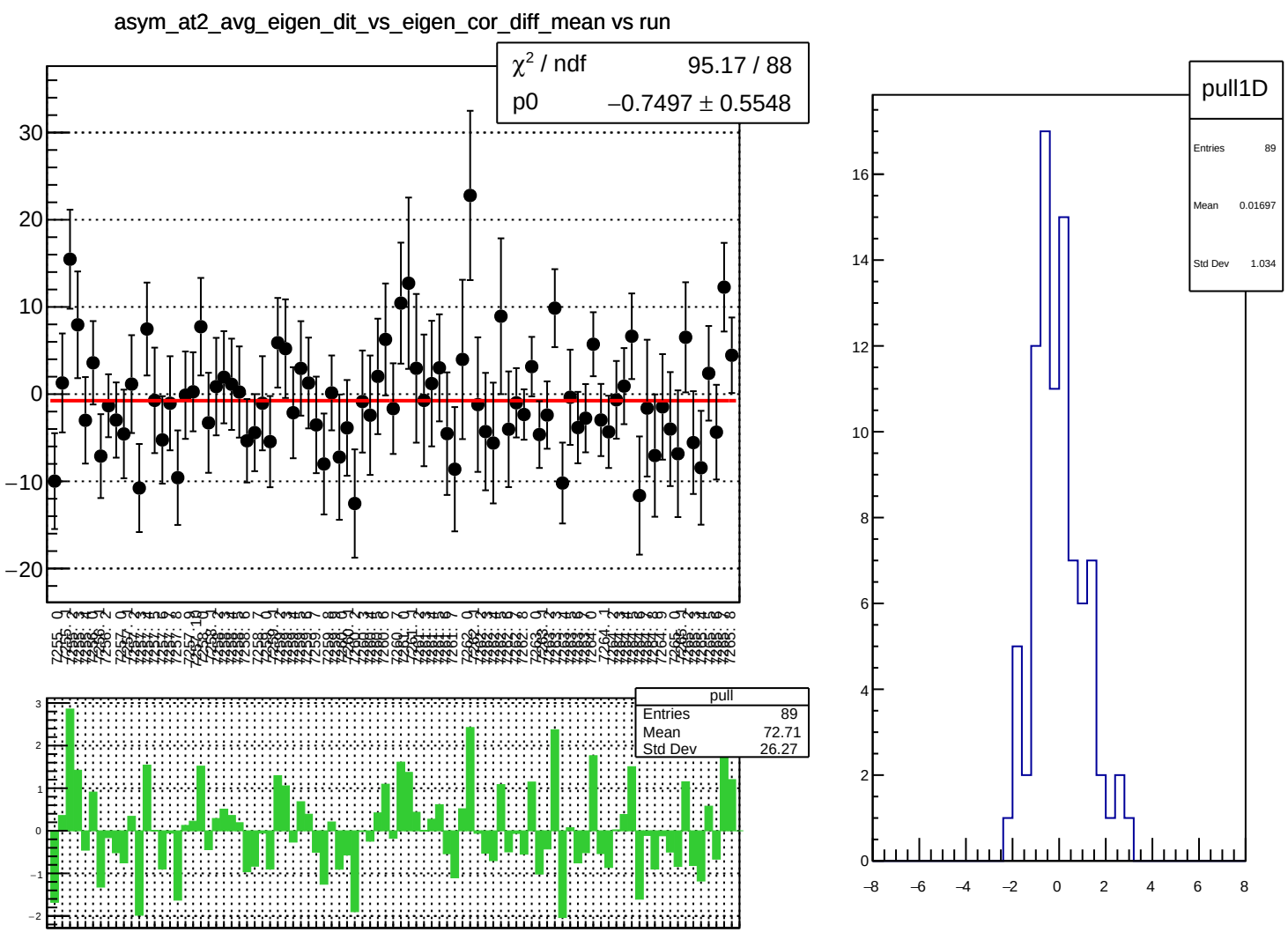

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.905e+04 / 88
p0 498.7 ± 0.3923
1000
900
800
700
600
500
400
300

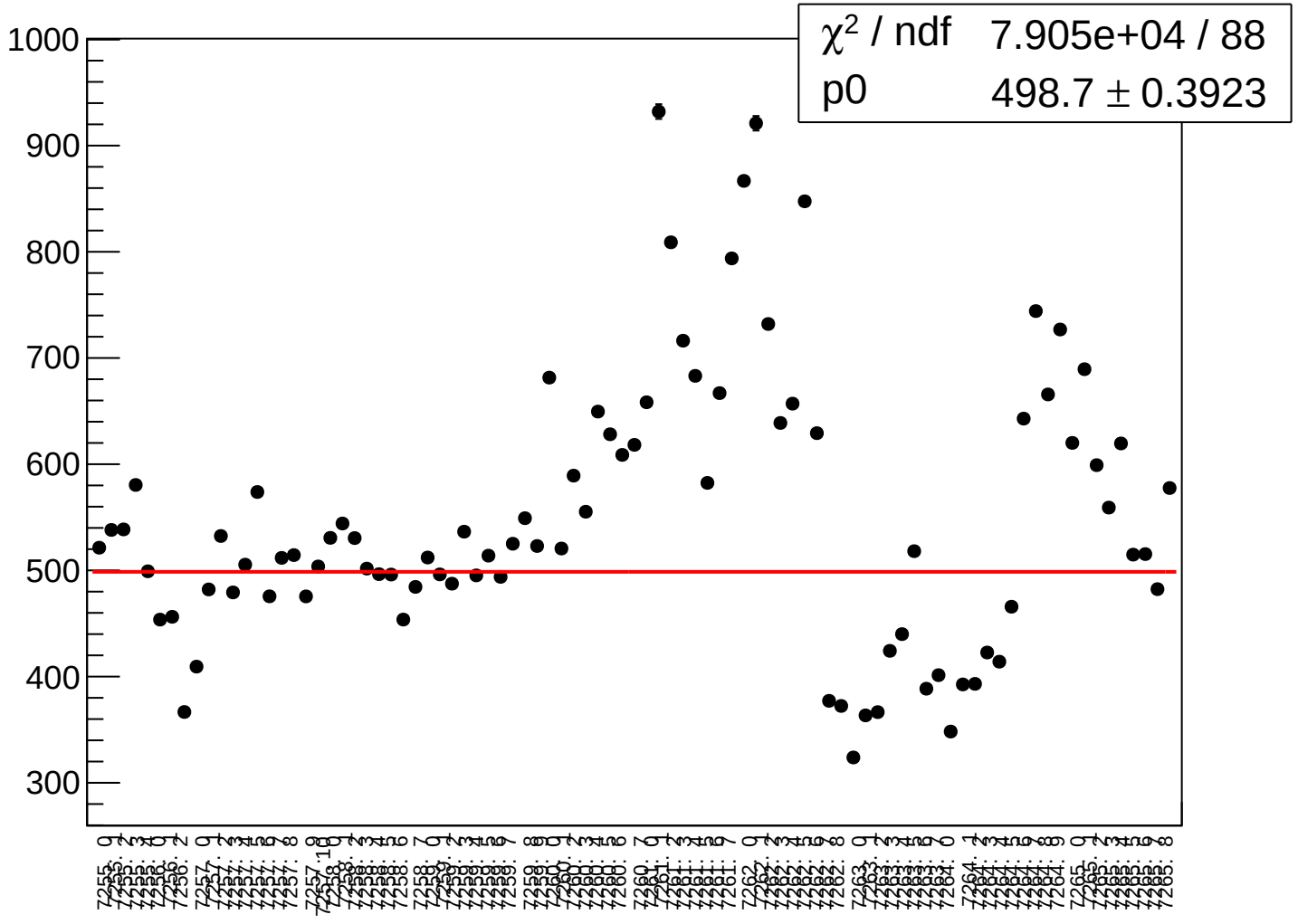

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.04 / 88
p0 1.694e−05 ± 2.331e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 89
Mean −708.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.00511
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

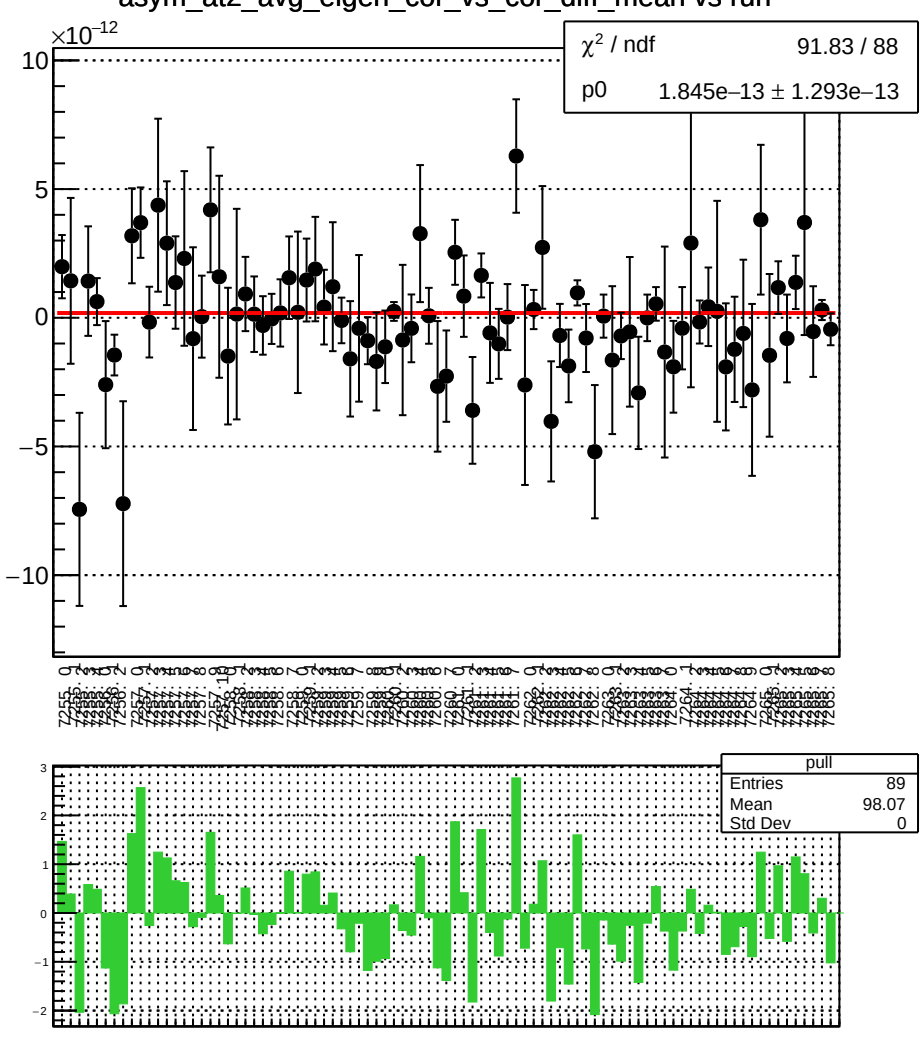

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5347 / 88
p0 0.02142 ± 1.648e−05
0.025
0.024
0.023
0.022
0.021
0.02
0.019

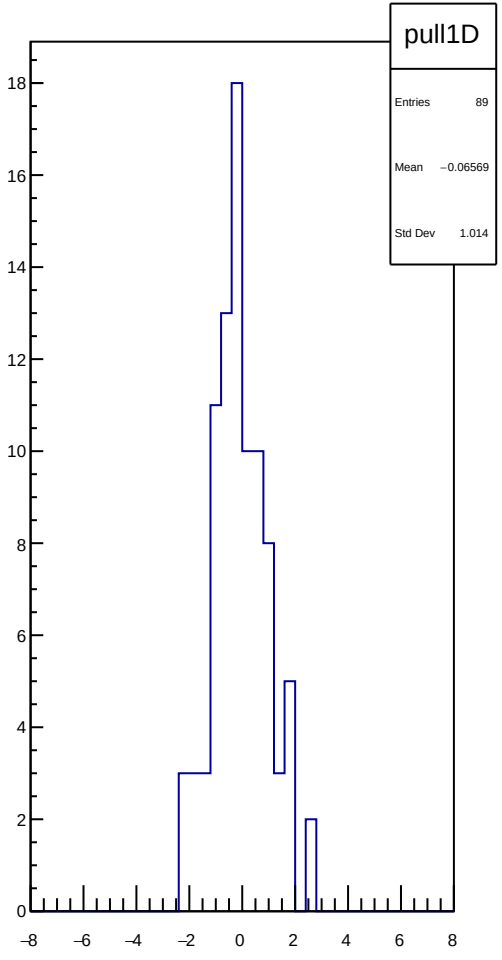

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.17 / 88
p0 −0.7497 ± 0.5548
pull
Entries 89
Mean 72.71
Std Dev 26.27
pull1D
Entries 89
Mean 0.01697
Std Dev 1.034

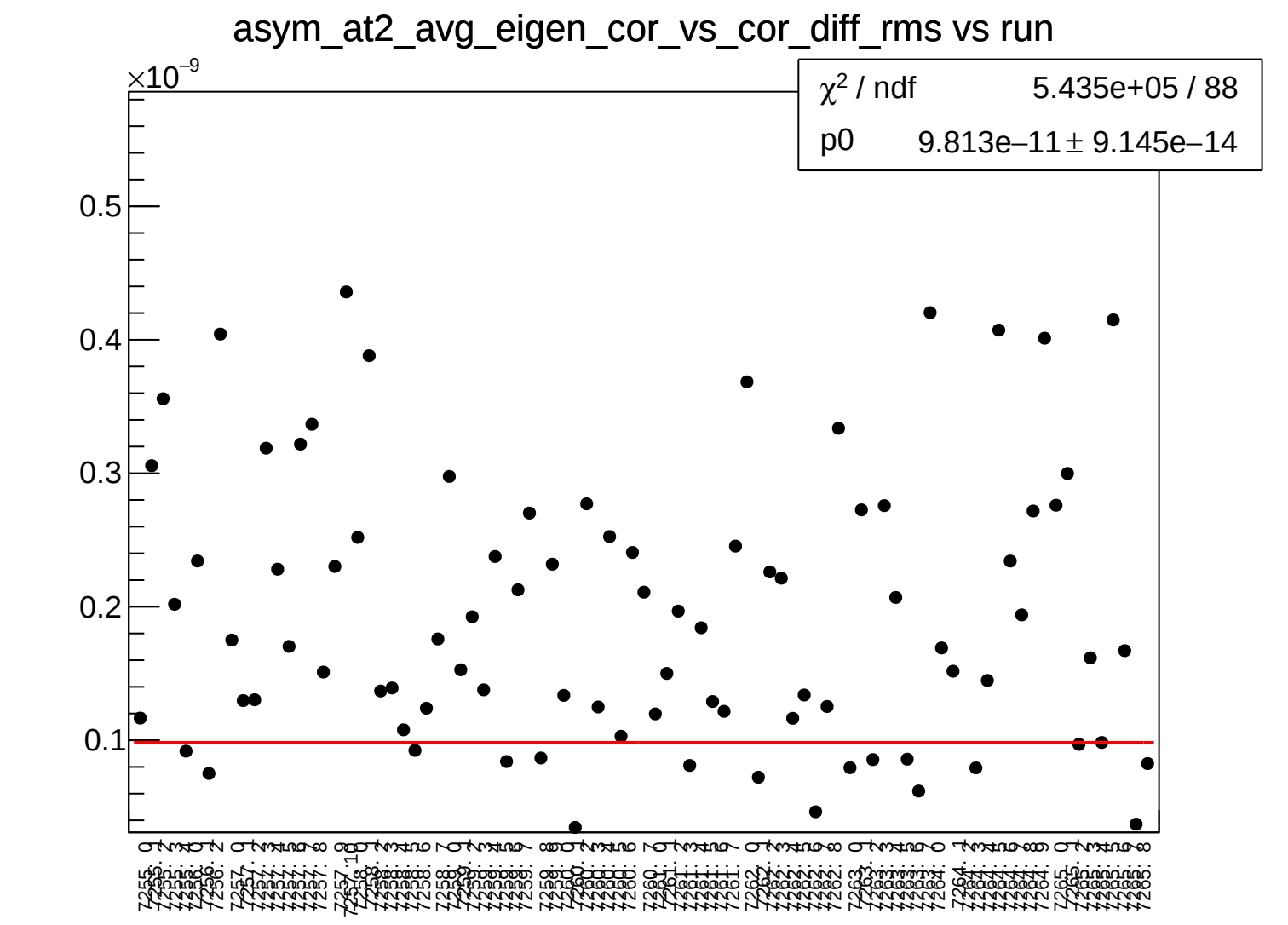

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.905e+04 / 88
p0 498.7 ± 0.3923
1000
900
800
700
600
500
400
300

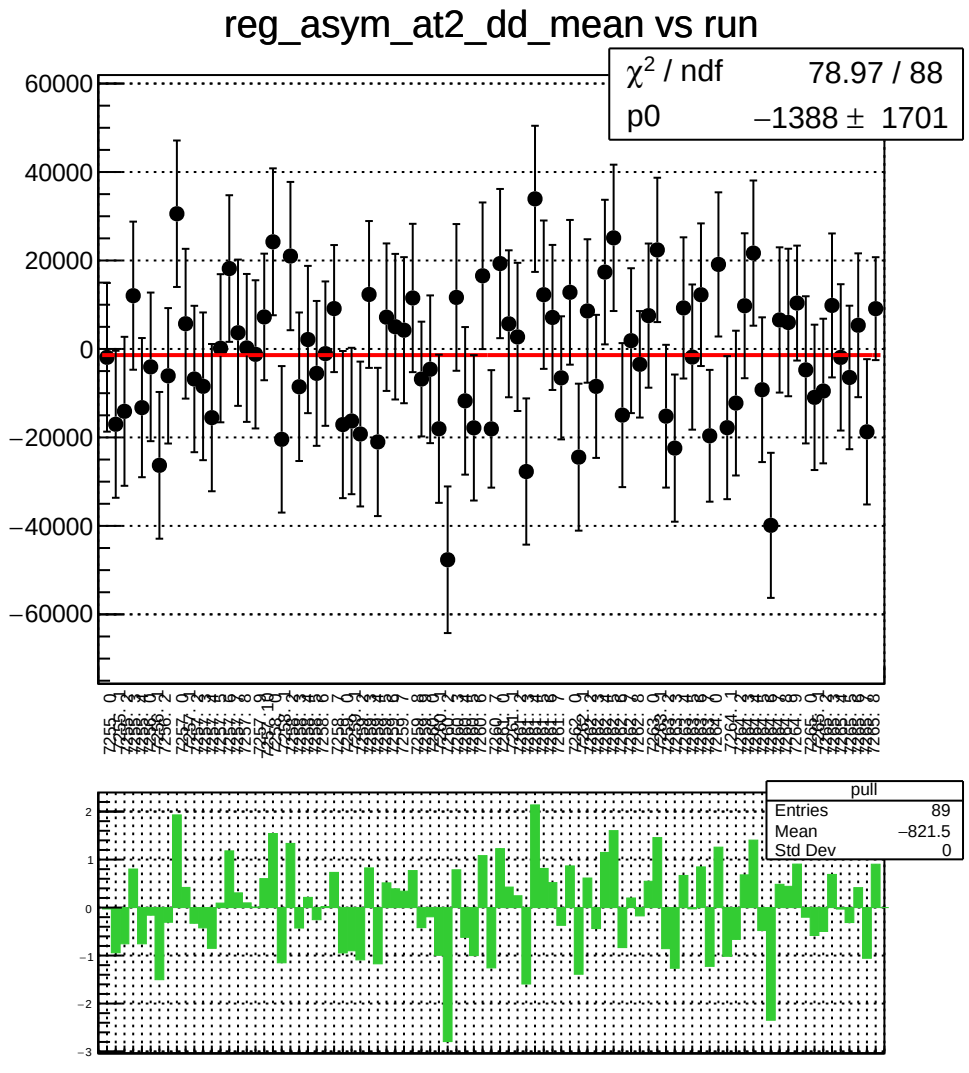

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.17 / 88
p0 −0.7497 ± 0.5548
pull
Entries 89
Mean 72.71
Std Dev 26.27
pull1D
Entries 89
Mean 0.01697
Std Dev 1.034

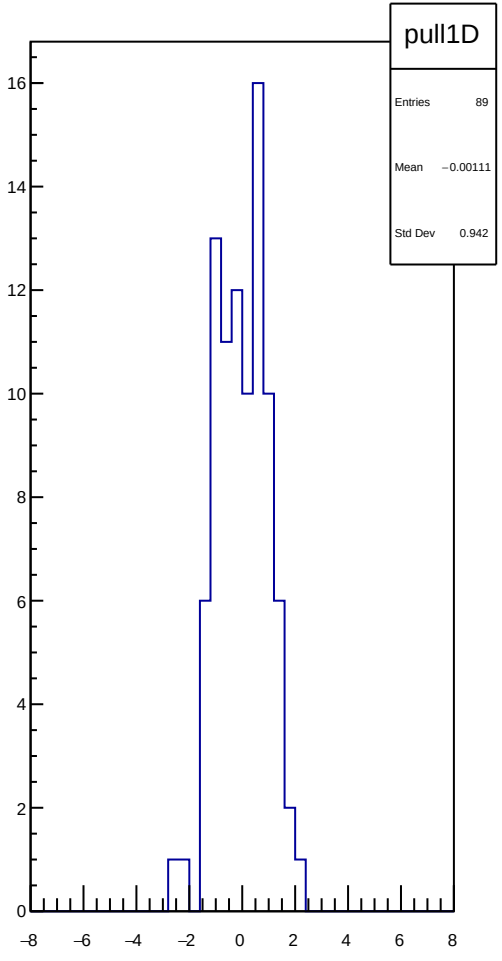

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.905e+04 / 88
p0 498.7 ± 0.3923
1000
900
800
700
600
500
400
300

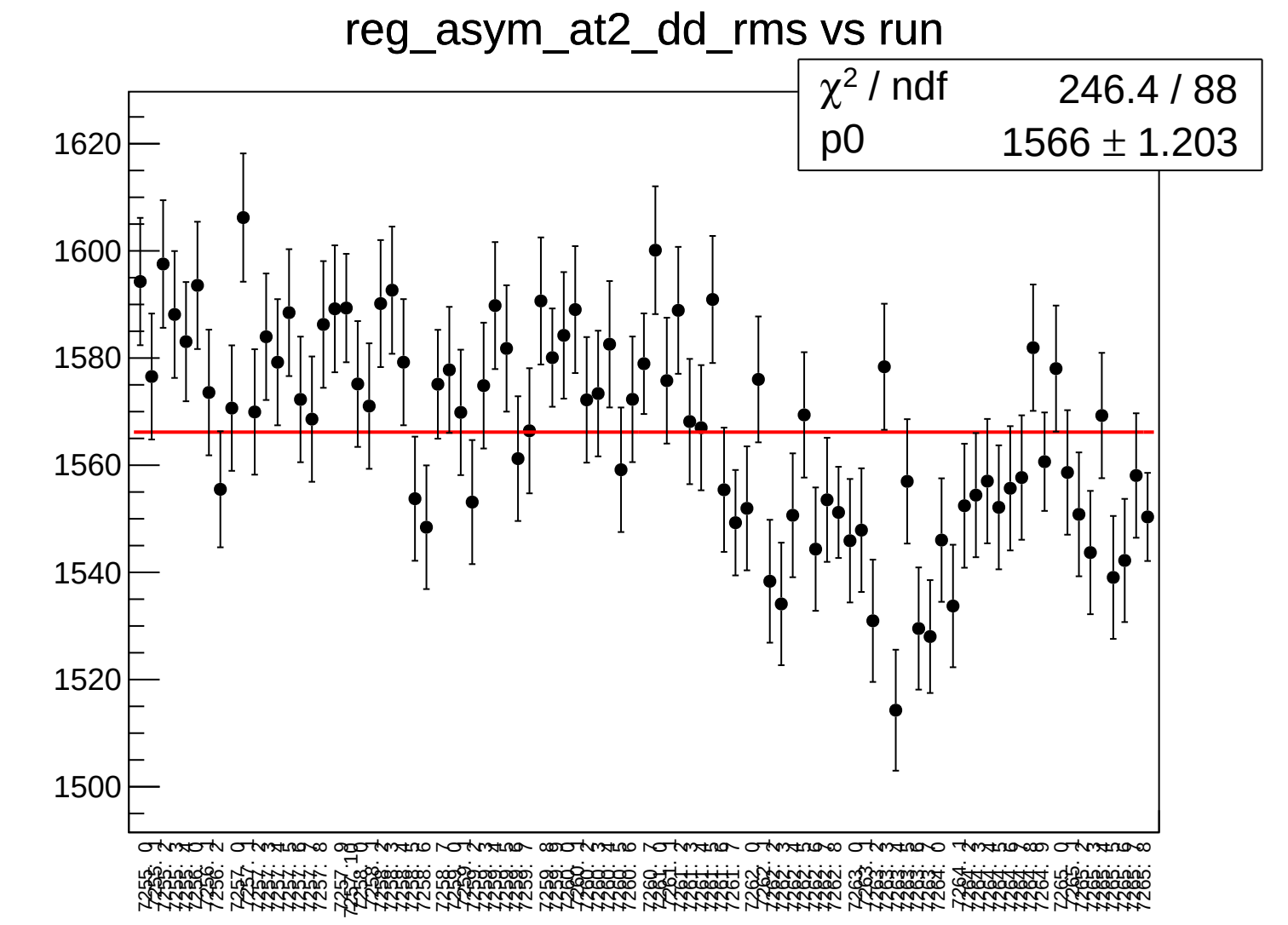

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.83 / 88
p0 1.845e−13 ± 1.293e−13
pull
Entries 89
Mean 98.07
Std Dev 0

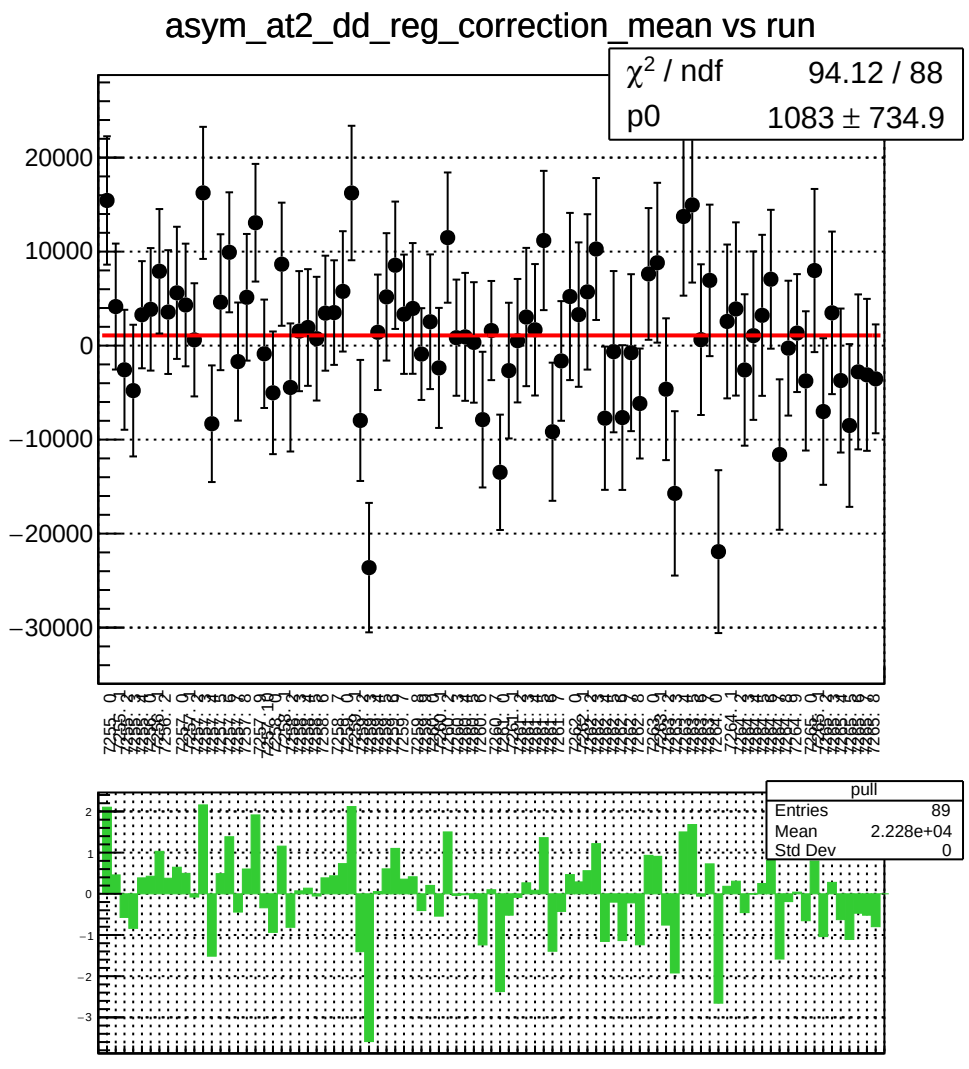

pull1D
Entries 89
Mean −0.06569
Std Dev 1.014

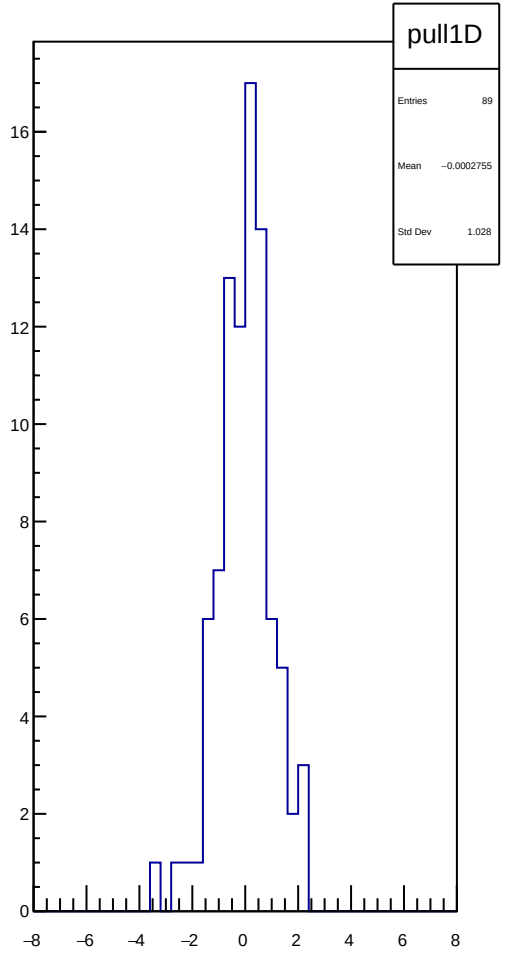

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.435e+05 / 88
p0 9.813e−11 ± 9.145e−14
0.5
0.4
0.3
0.2
0.1

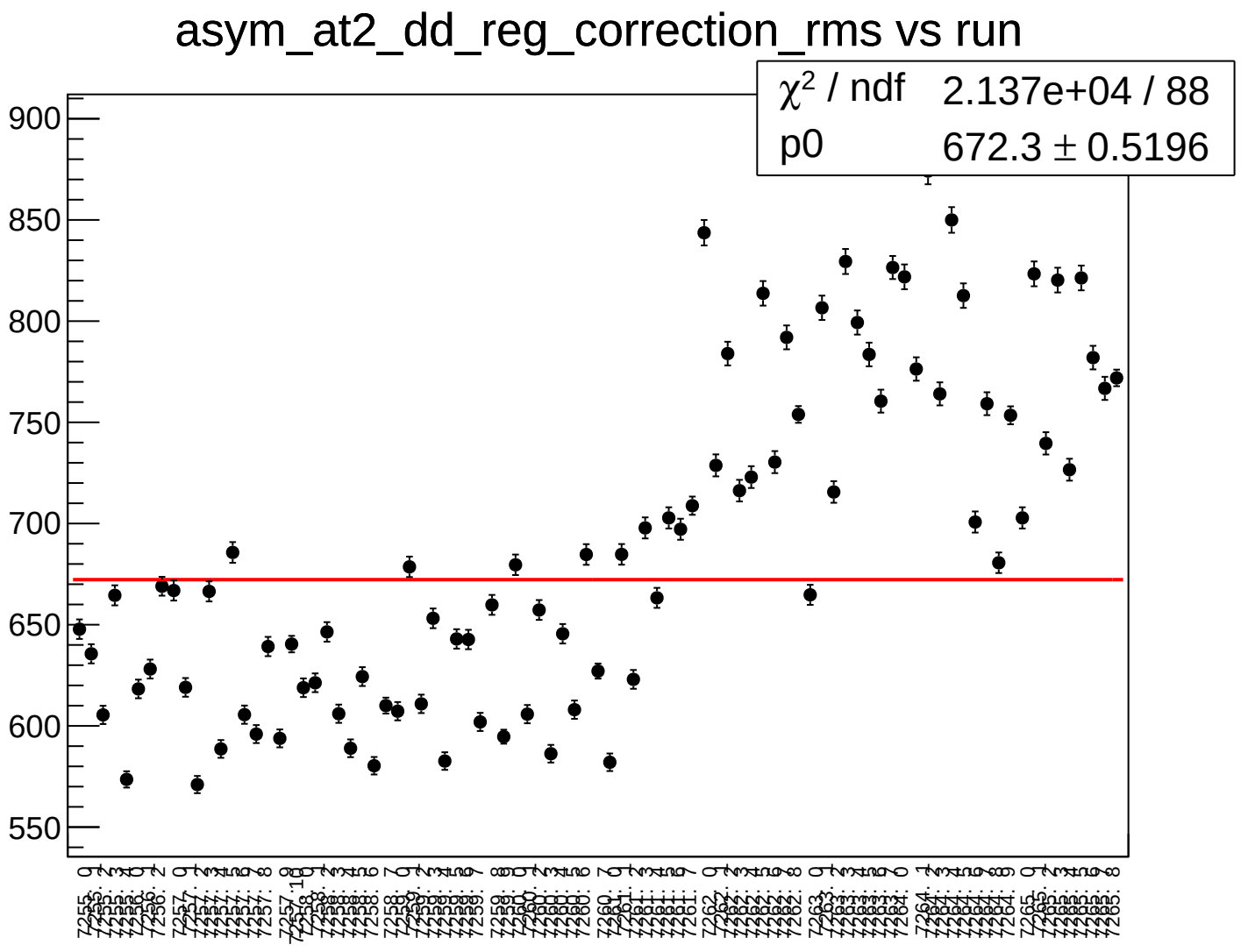

reg_asym_at2_dd_mean vs run
χ² / ndf 78.97 / 88
p0 −1388 ± 1701
pull
Entries 89
Mean −821.5
Std Dev 0

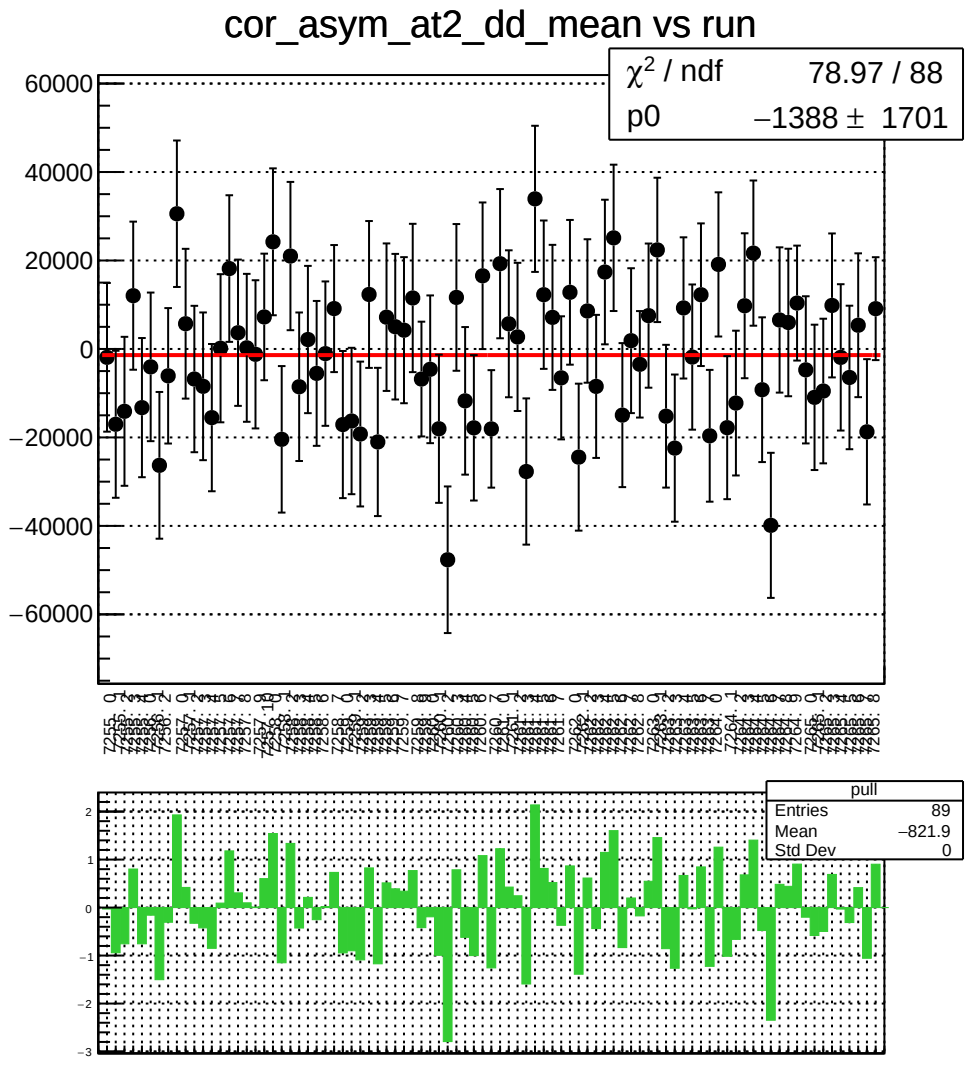

pull1D
Entries 89
Mean −0.00111
Std Dev 0.942

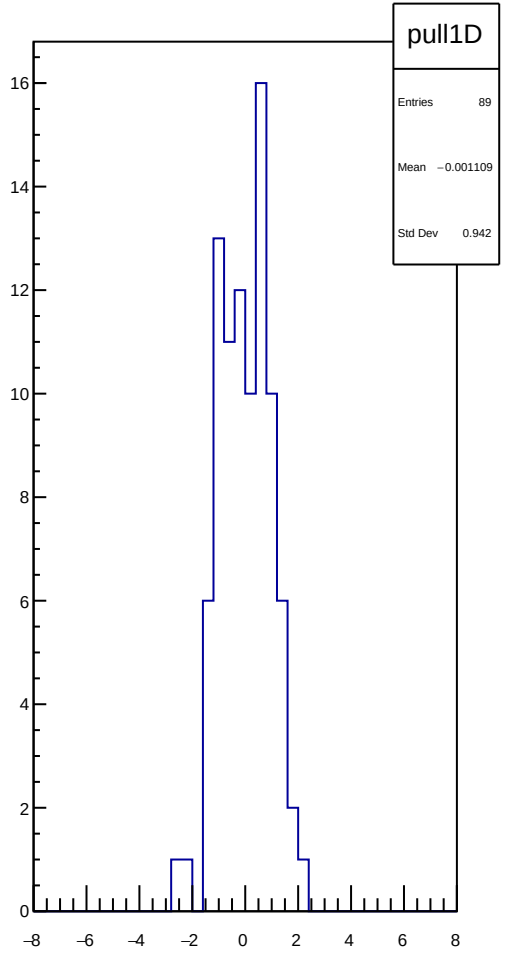

reg_asym_at2_dd_rms vs run
χ² / ndf 246.4 / 88
p0 1566 ± 1.203
1620
1600
1580
1560
1540
1520
1500

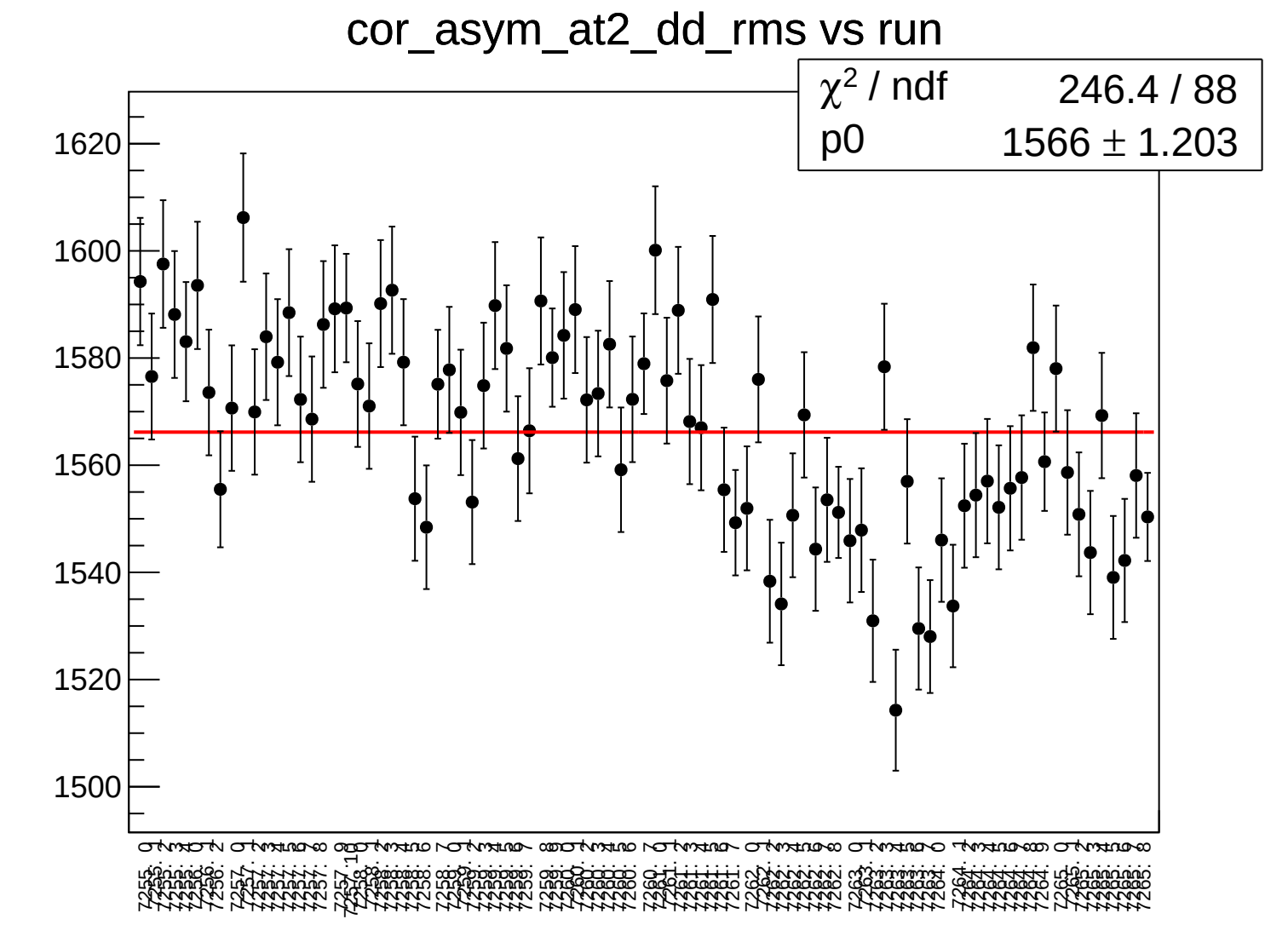

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 94.12 / 88
p0 1083 ± 734.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 2.228e+04
Std Dev 0
2
1
0
−1
−2
−3

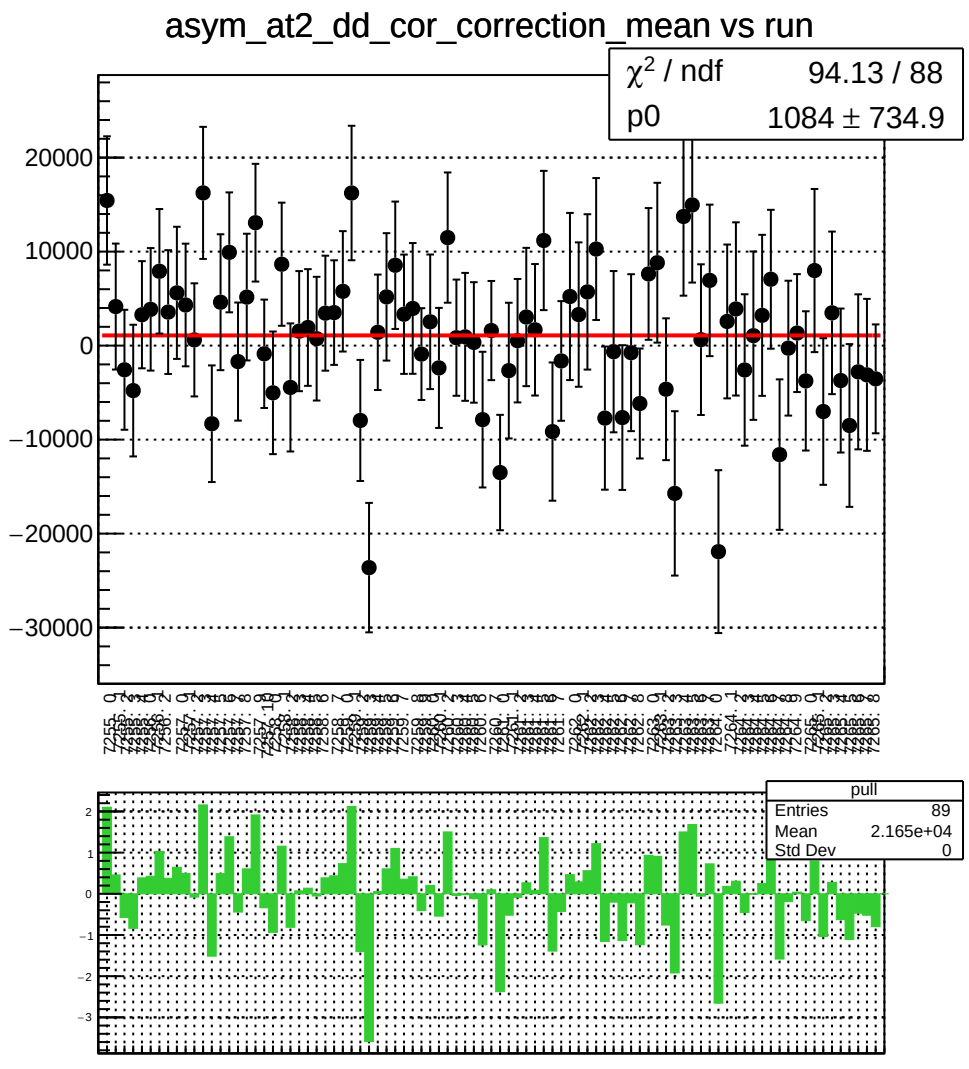

pull1D
Entries 89
Mean −0.0002755
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

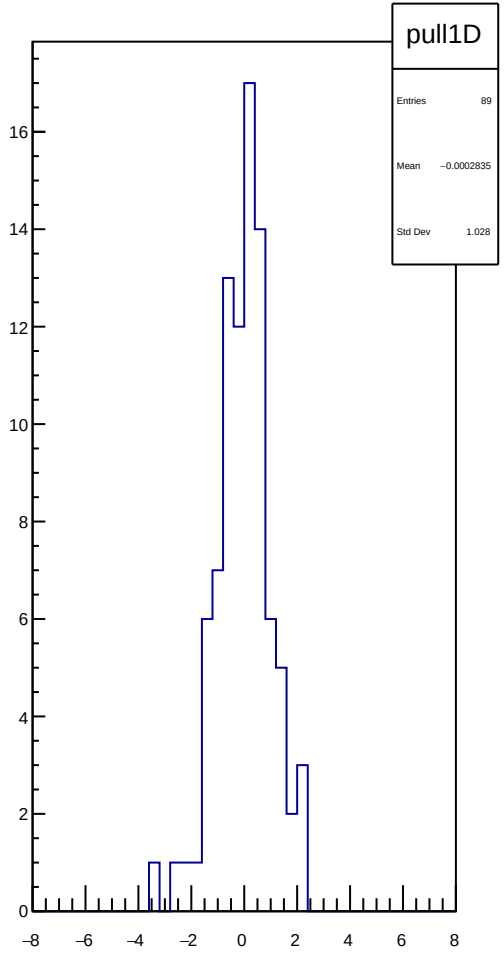

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 2.137e+04 / 88
p0 672.3 ± 0.5196
900
850
800
750
700
650
600
550

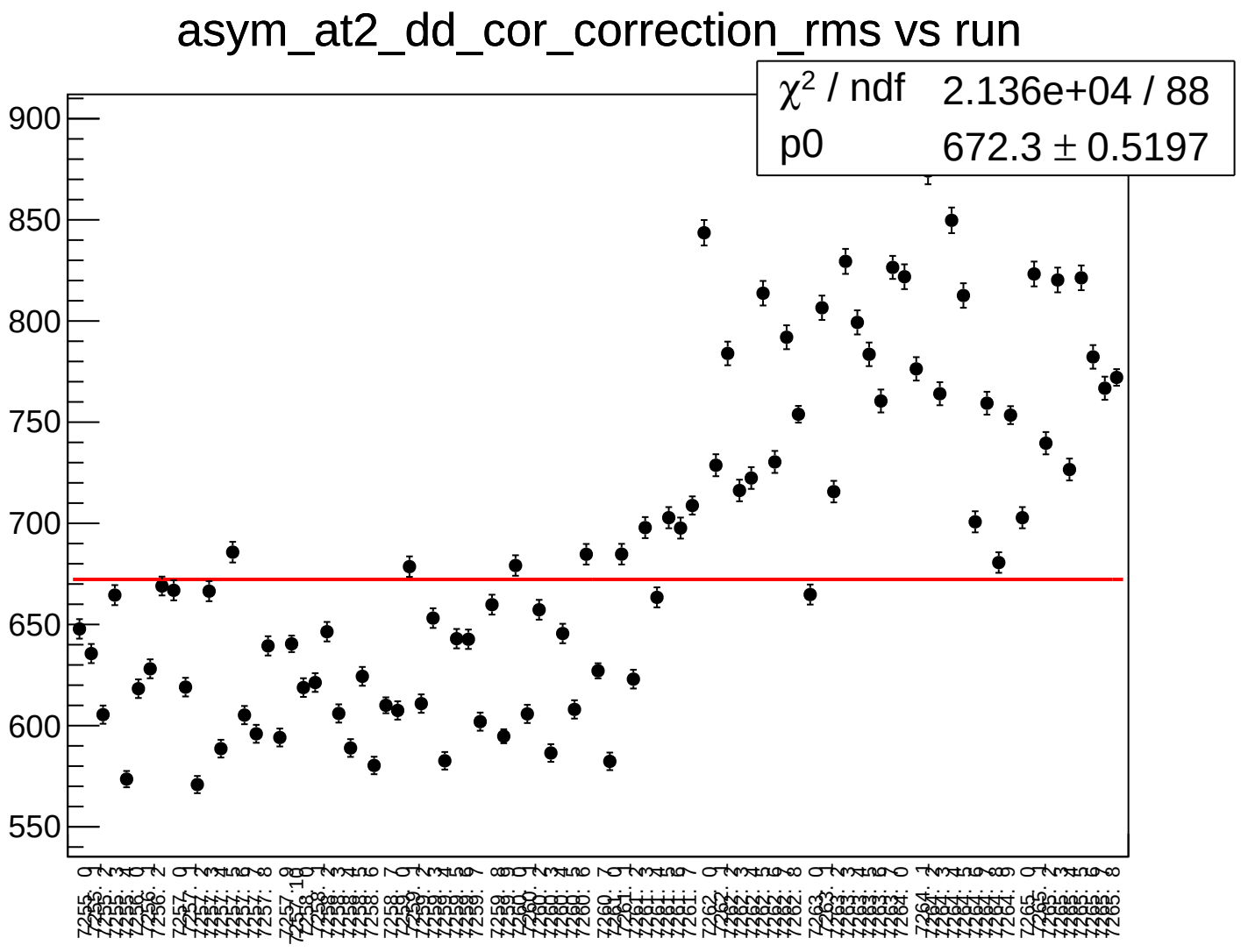

cor_asym_at2_dd_mean vs run
χ² / ndf 78.97 / 88
p0 −1388 ± 1701
pull
Entries 89
Mean −821.9
Std Dev 0

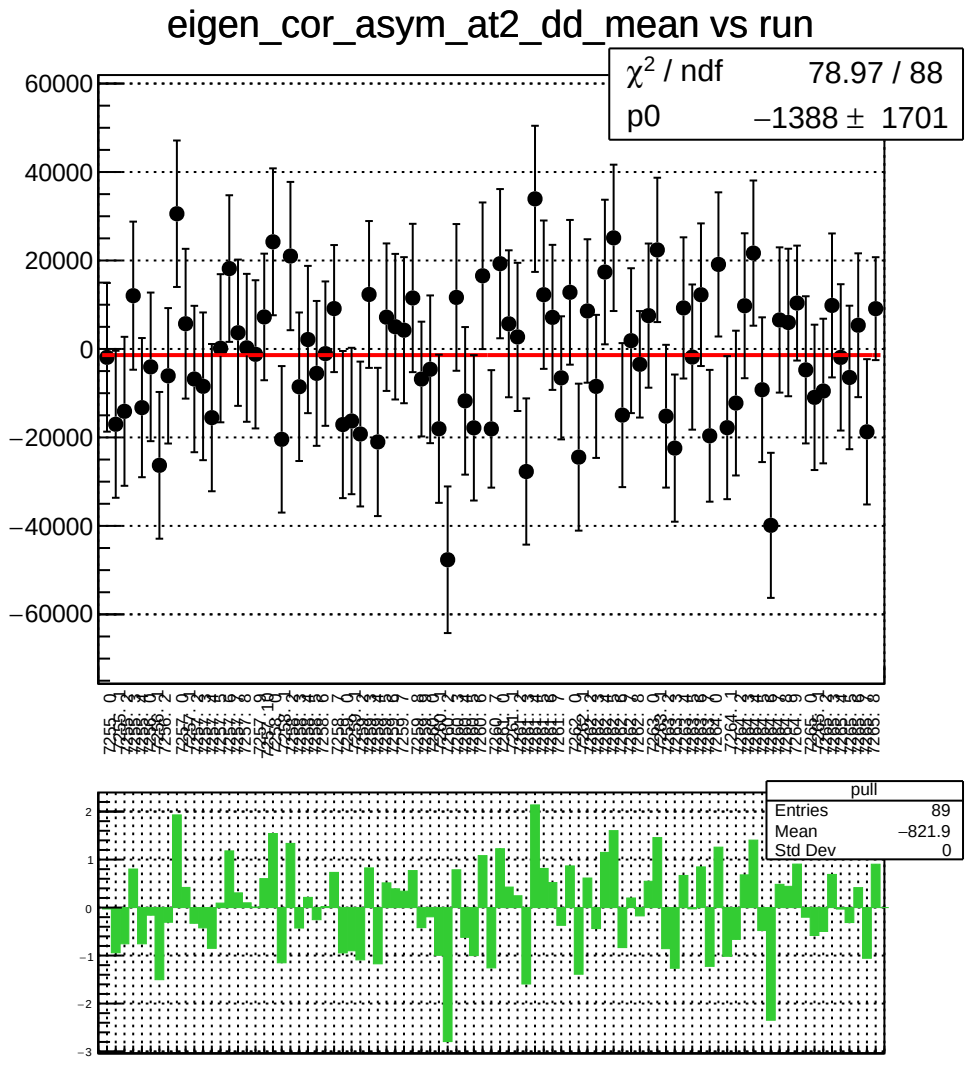

pull1D
Entries 89
Mean −0.001109
Std Dev 0.942

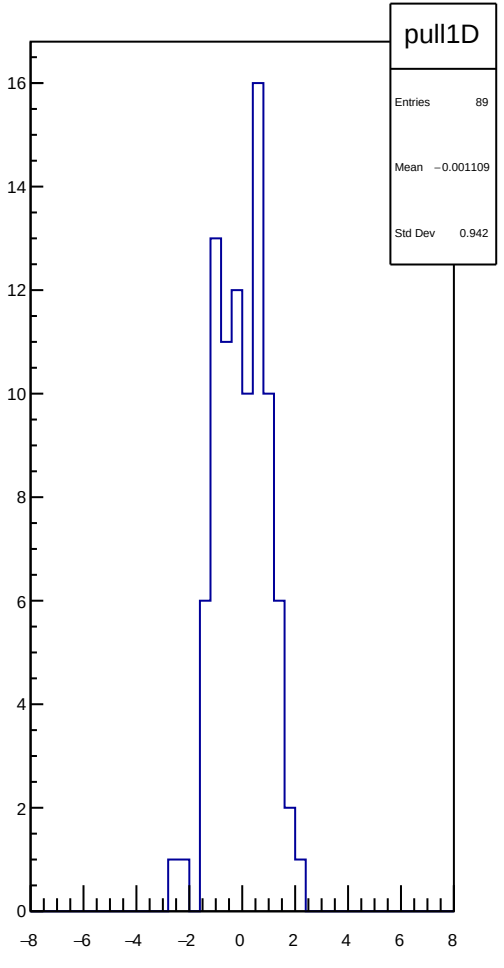

cor_asym_at2_dd_rms vs run
χ² / ndf 246.4 / 88
p0 1566 ± 1.203
1620
1600
1580
1560
1540
1520
1500

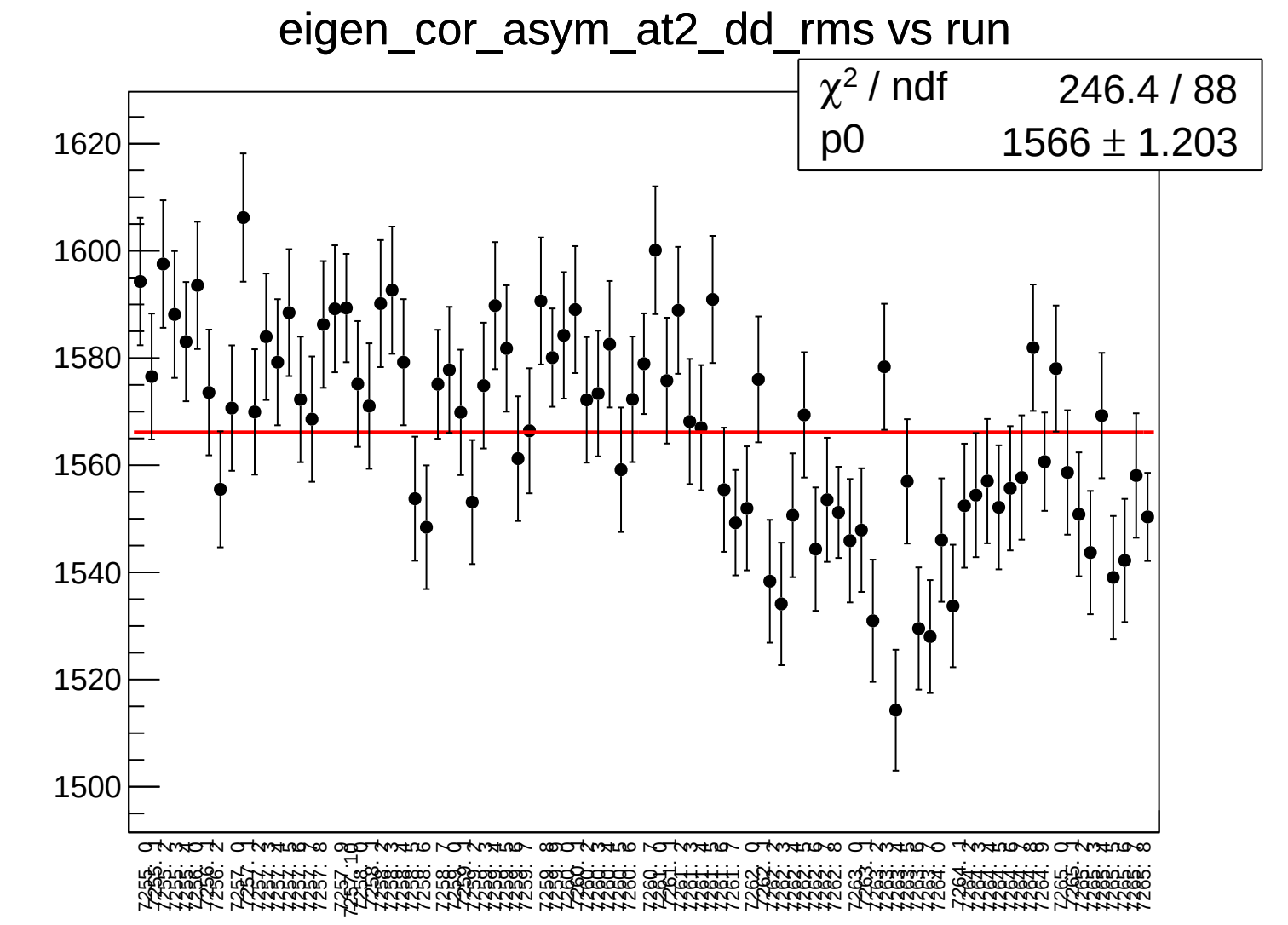

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 94.13 / 88
p0 1084 ± 734.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 2.165e+04
Std Dev 0
2
1
0
−1
−2
−3

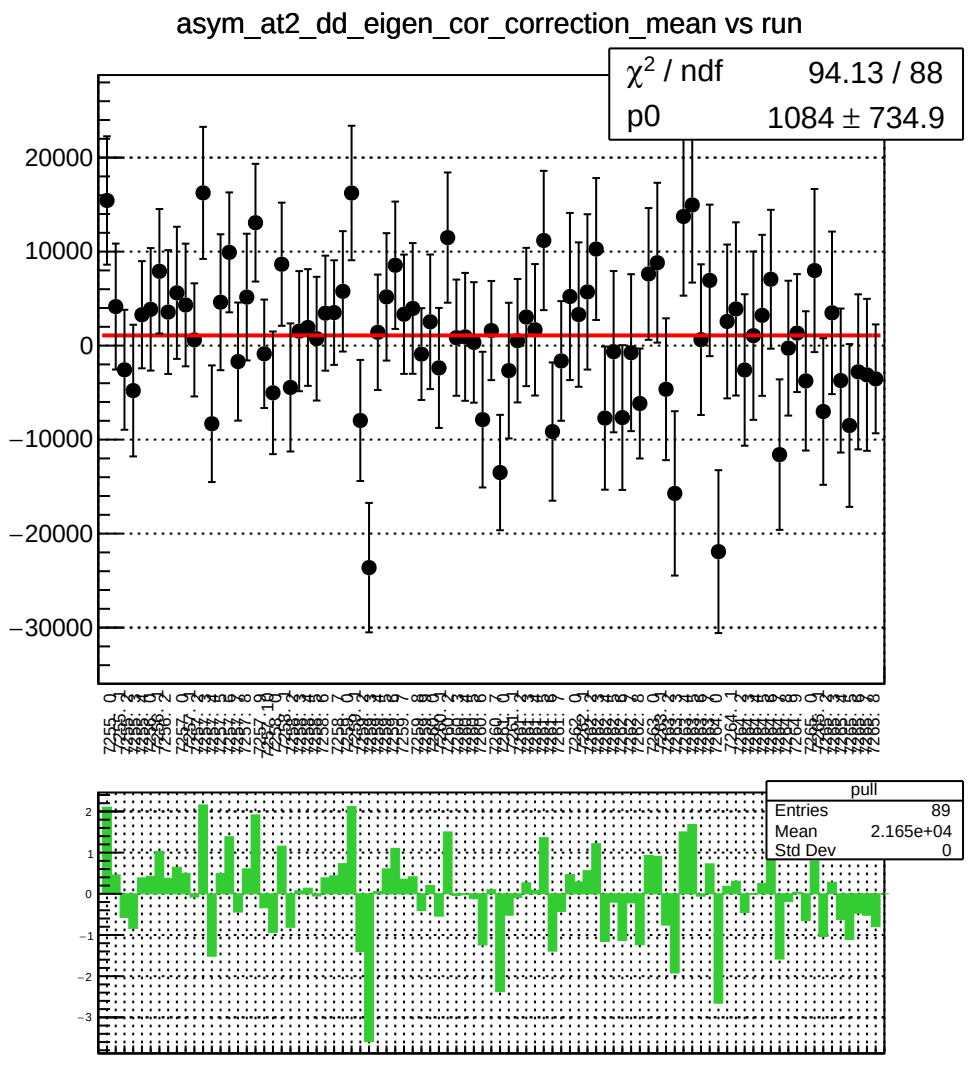

pull1D
Entries 89
Mean −0.0002835
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

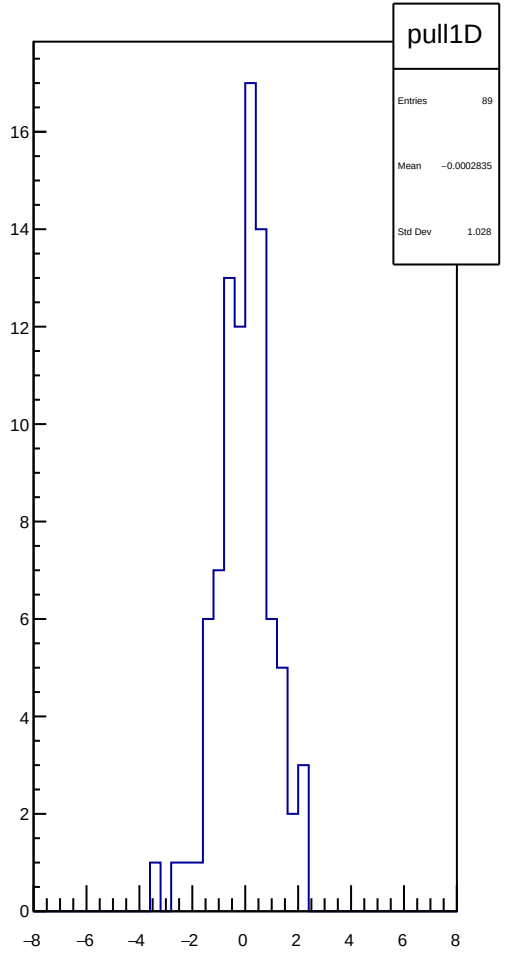

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 2.136e+04 / 88
p0 672.3 ± 0.5197
900
850
800
750
700
650
600
550

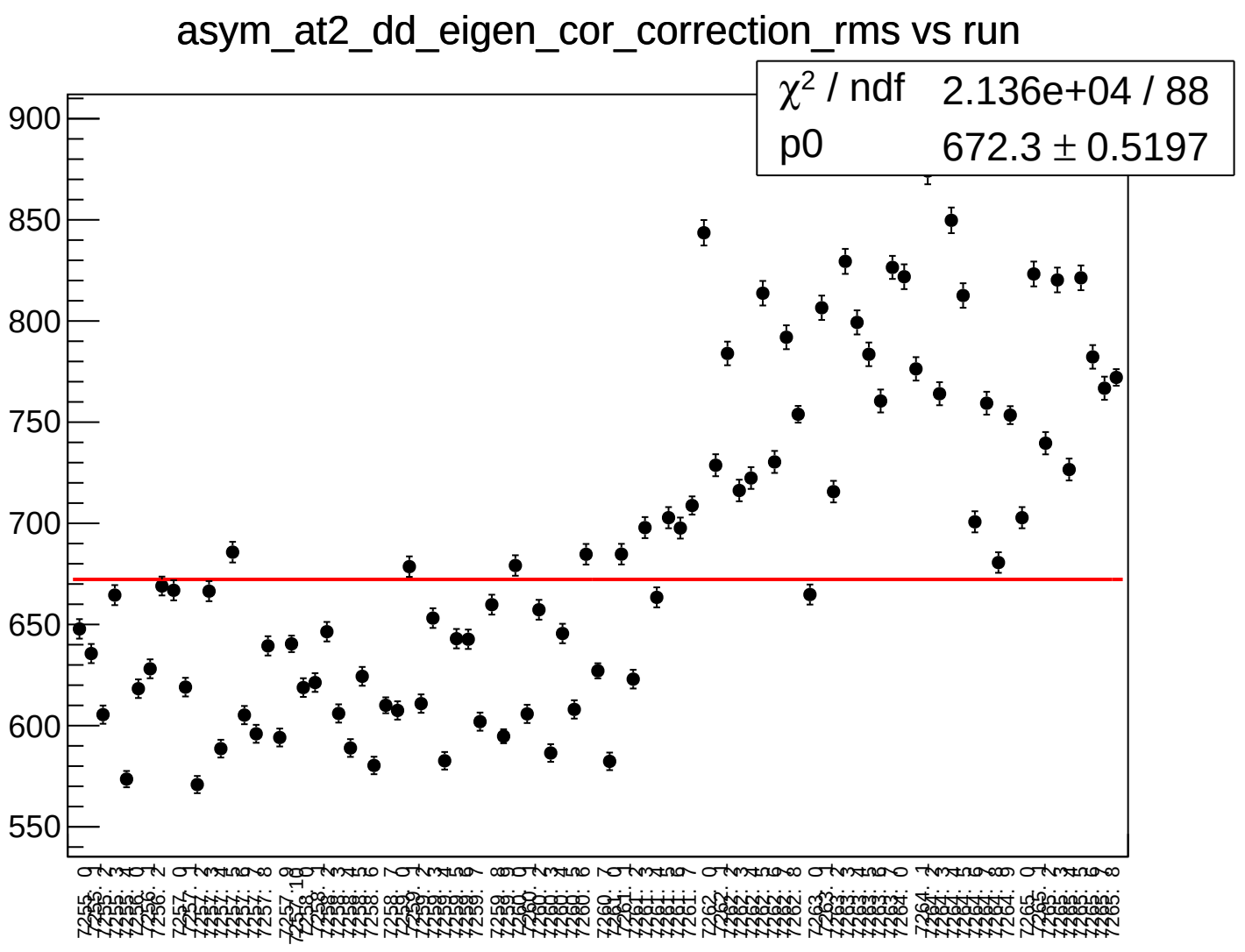

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 78.97 / 88
p0 −1388 ± 1701
pull
Entries 89
Mean −821.9
Std Dev 0

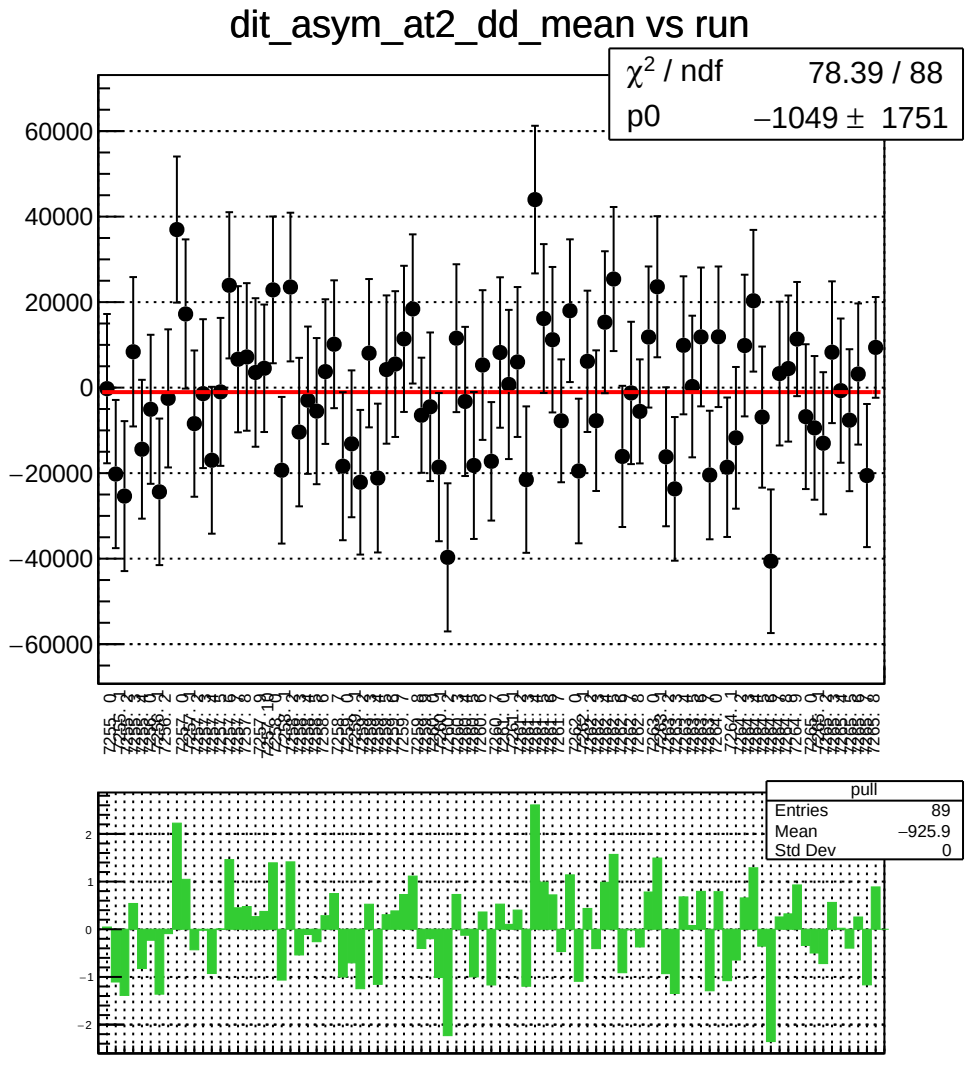

pull1D
Entries 89
Mean −0.001109
Std Dev 0.942

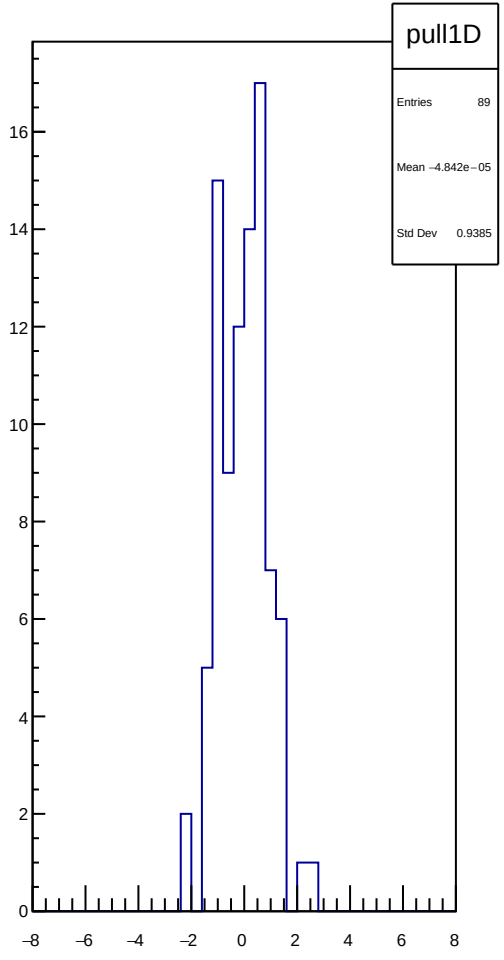

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 246.4 / 88
p0 1566 ± 1.203
1620
1600
1580
1560
1540
1520
1500

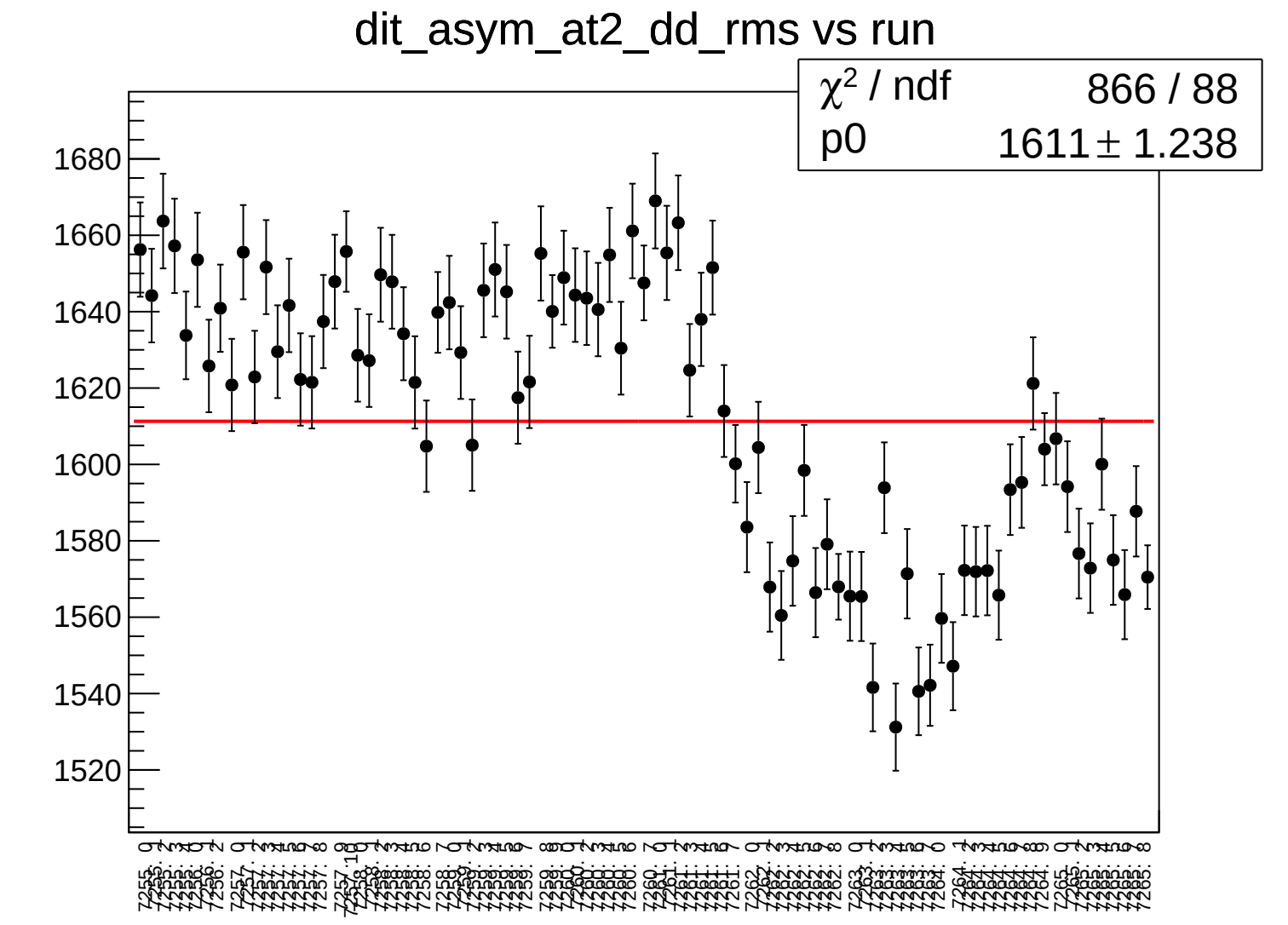

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.13 / 88
p0 1084 ± 734.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 2.165e+04
Std Dev 0
2
1
0
−1
−2
−3

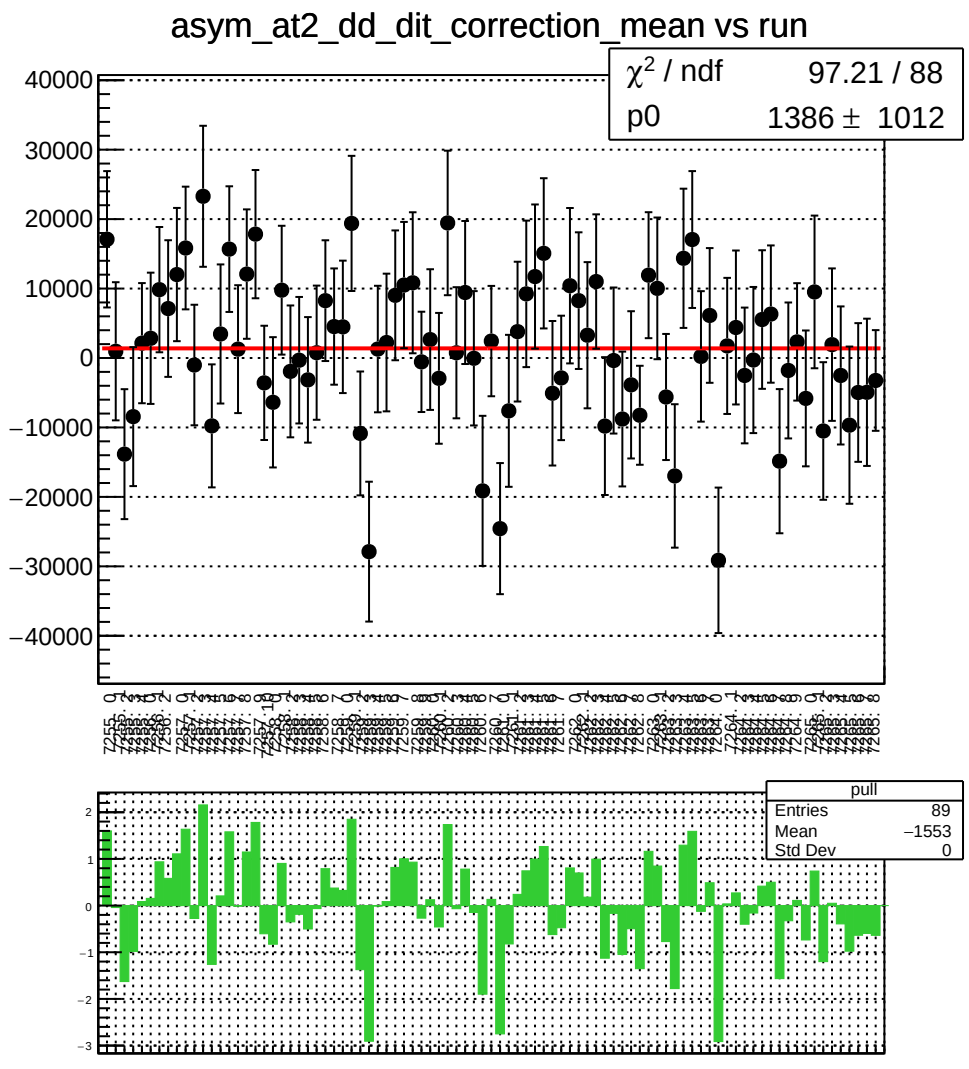

pull1D
Entries 89
Mean −0.0002835
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

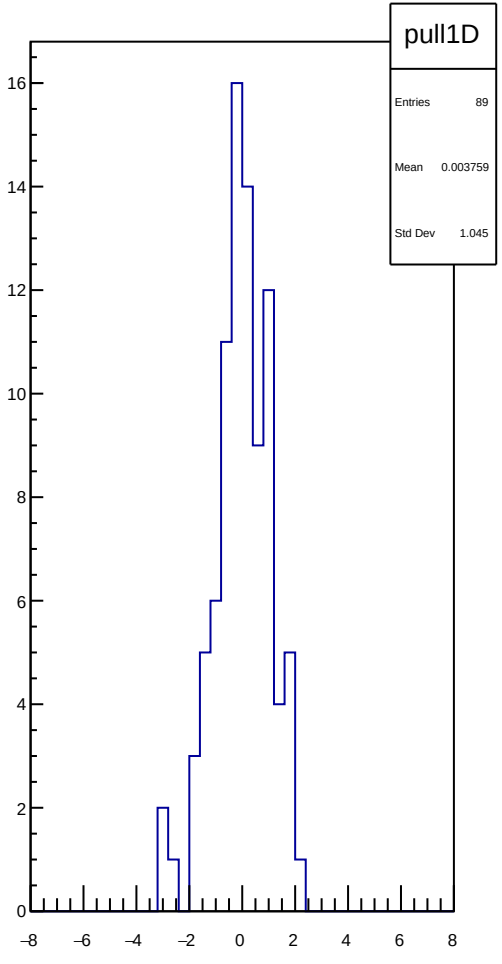

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.136e+04 / 88
p0 672.3 ± 0.5197
900
850
800
750
700
650
600
550

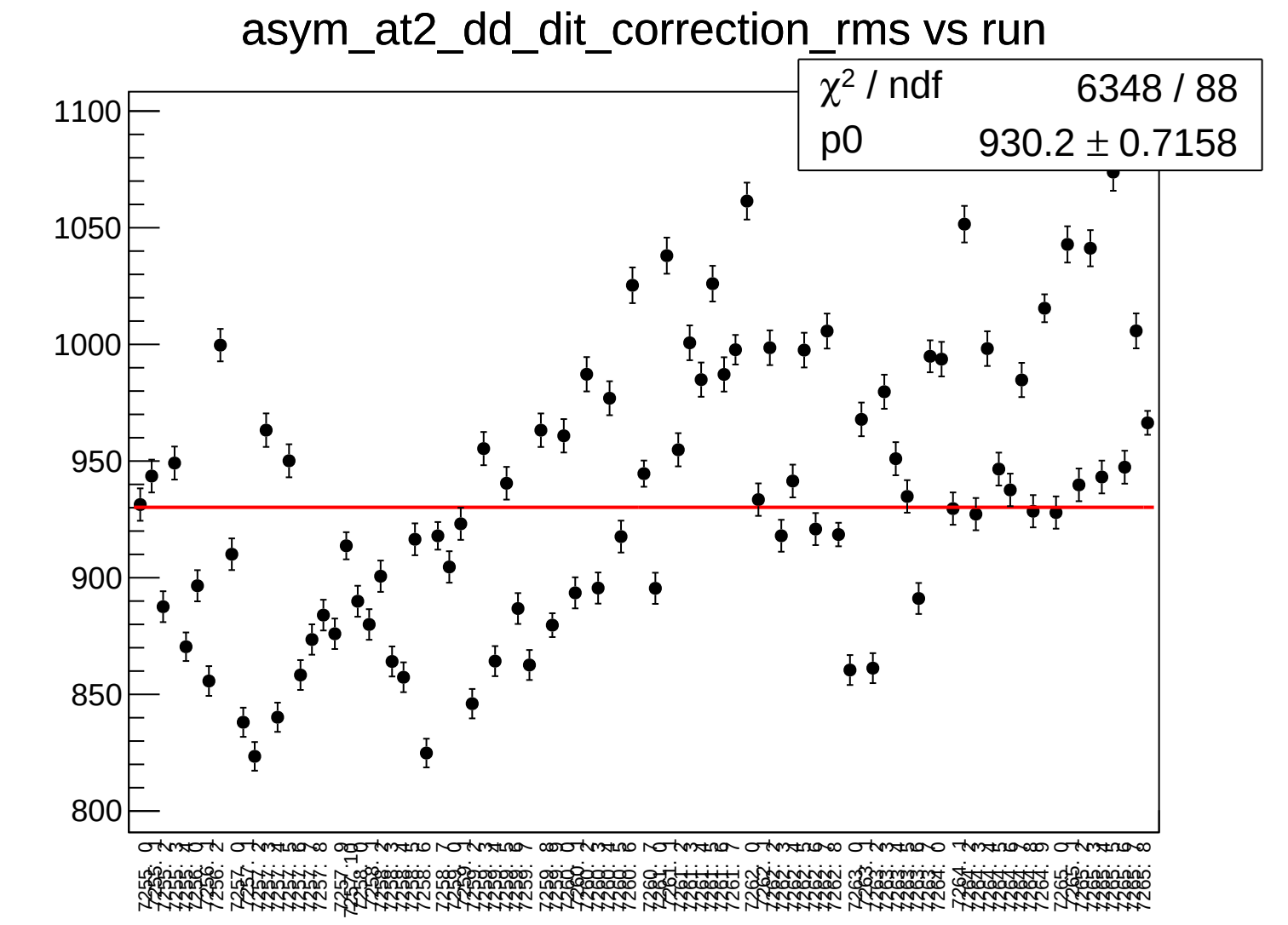

dit_asym_at2_dd_mean vs run
χ² / ndf 78.39 / 88
p0 −1049 ± 1751
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −925.9
Std Dev 0
2
1
0
−1
−2

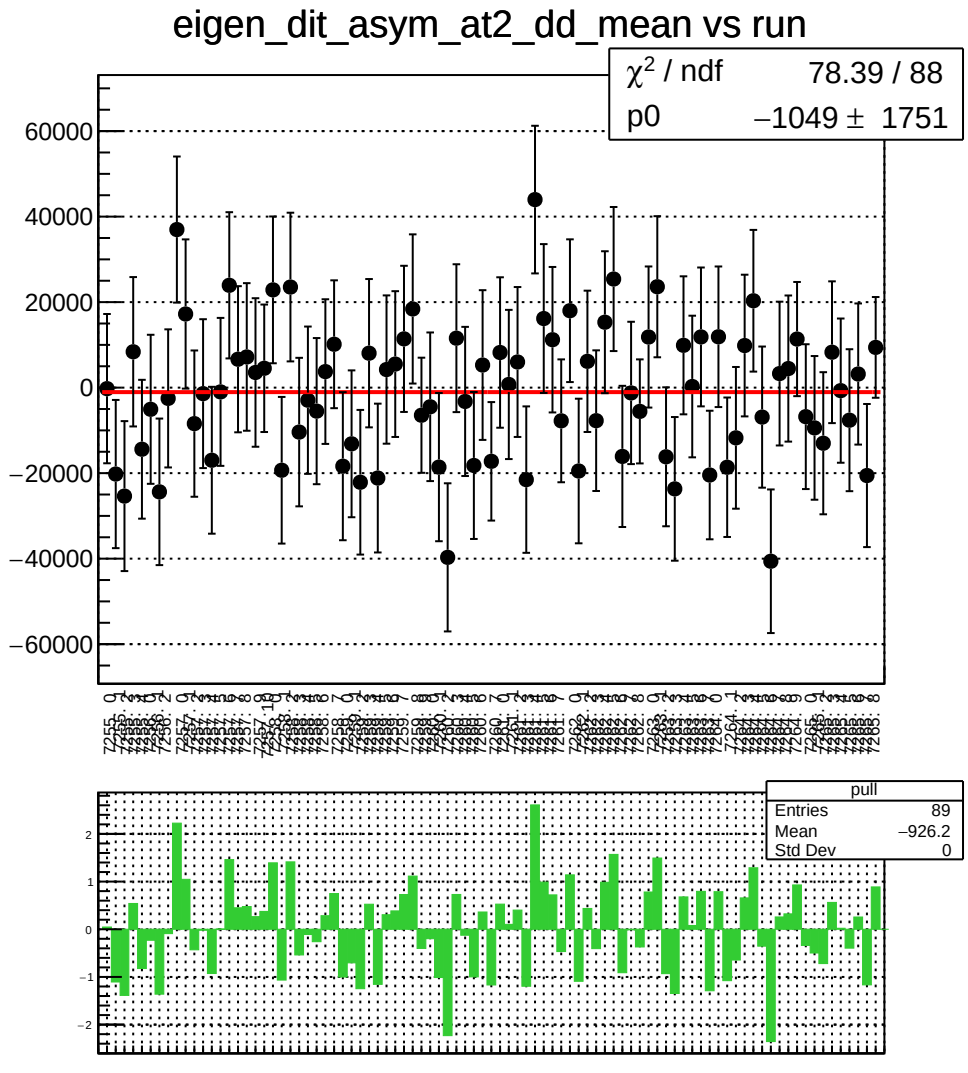

pull1D
Entries 89
Mean −4.842e−05
Std Dev 0.9385
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

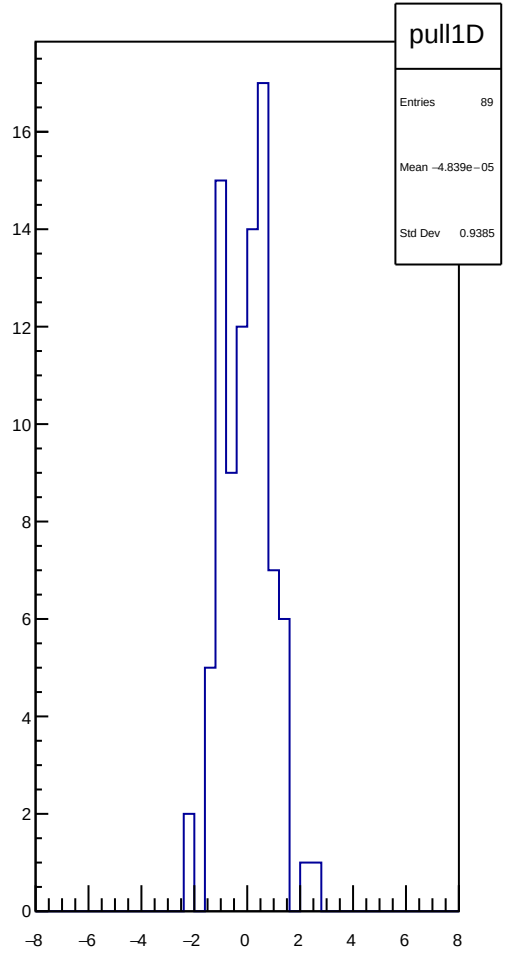

dit_asym_at2_dd_rms vs run
χ² / ndf 866 / 88
p0 1611 ± 1.238
1680
1660
1640
1620
1600
1580
1560
1540
1520

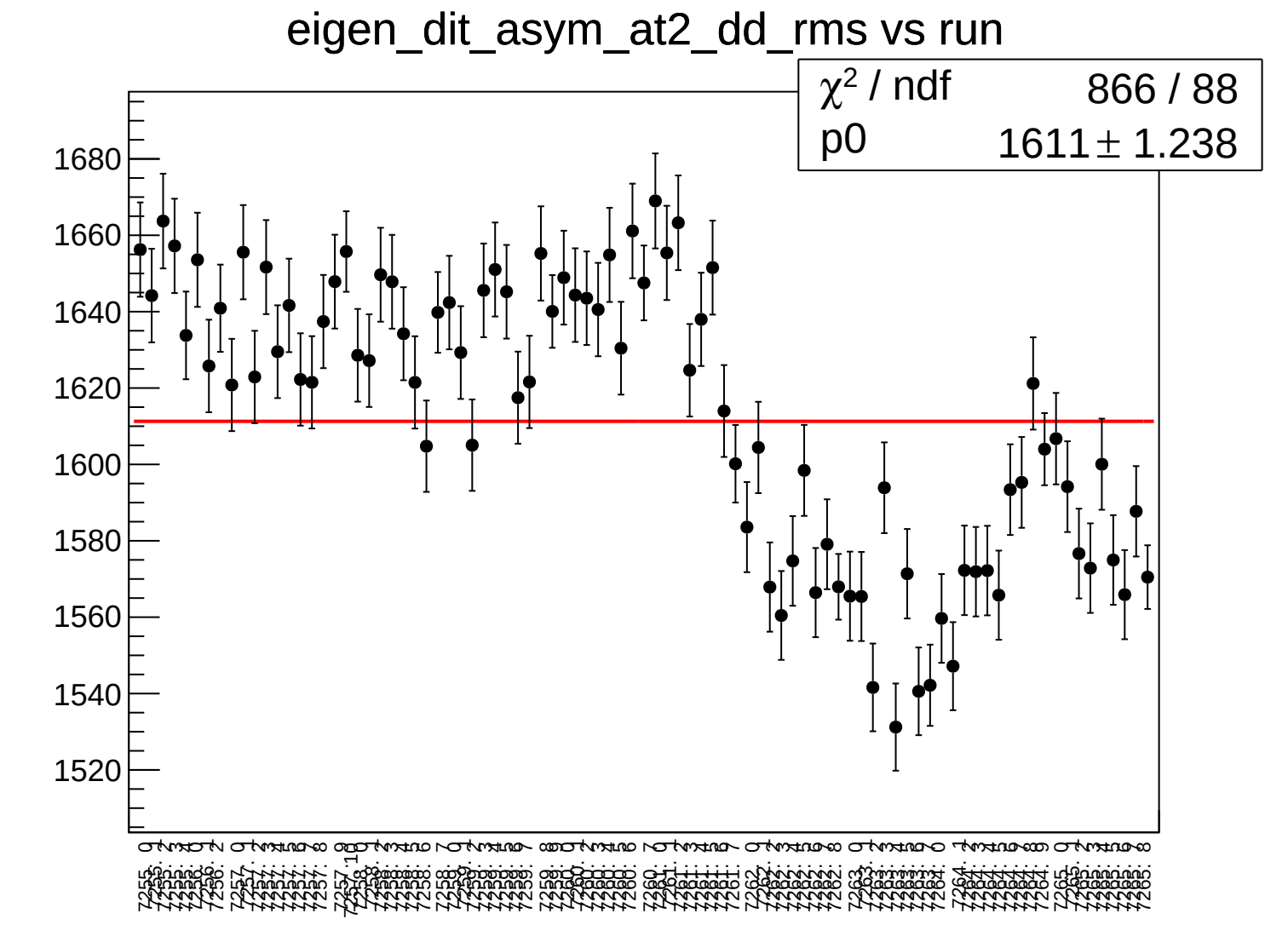

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 97.21 / 88
p0 1386 ± 1012
pull
Entries 89
Mean −1553
Std Dev 0

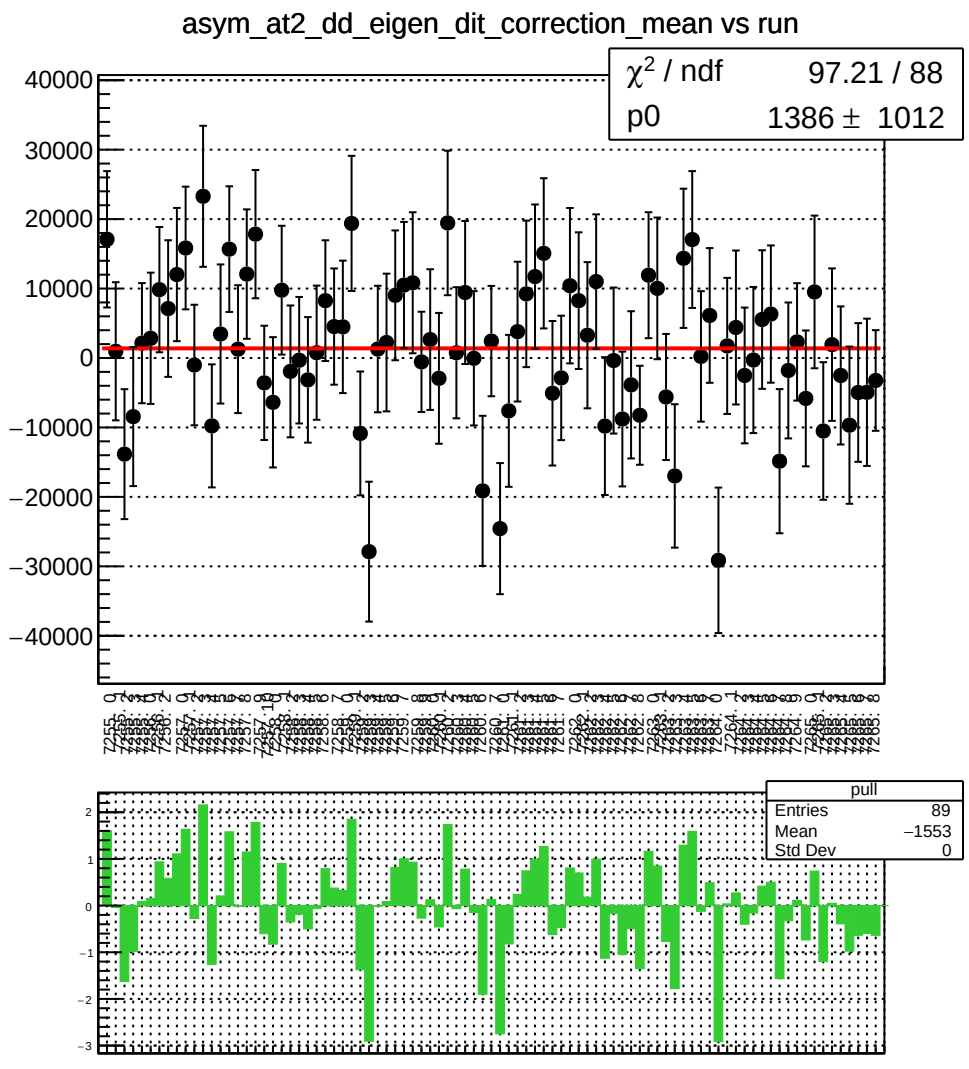

pull1D
Entries 89
Mean 0.003759
Std Dev 1.045

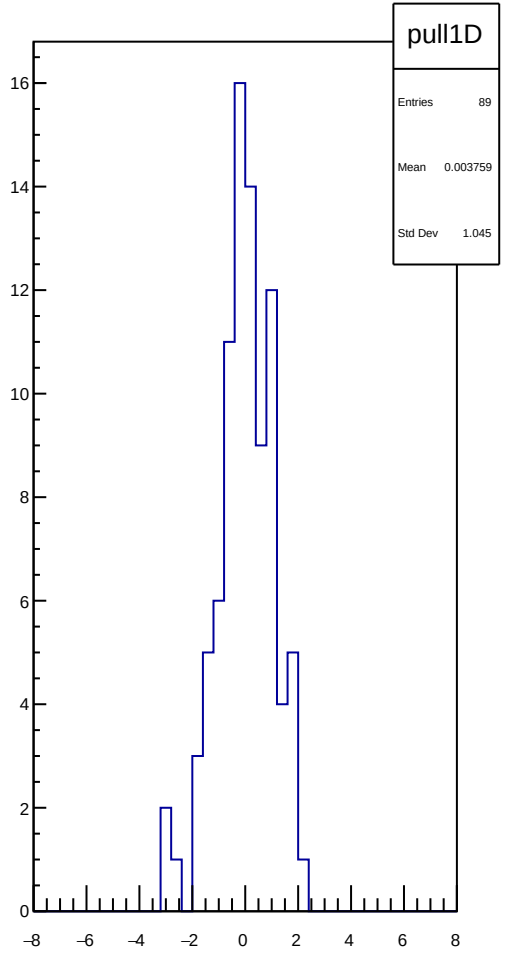

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 6348 / 88
p0 930.2 ± 0.7158
1100
1050
1000
950
900
850
800

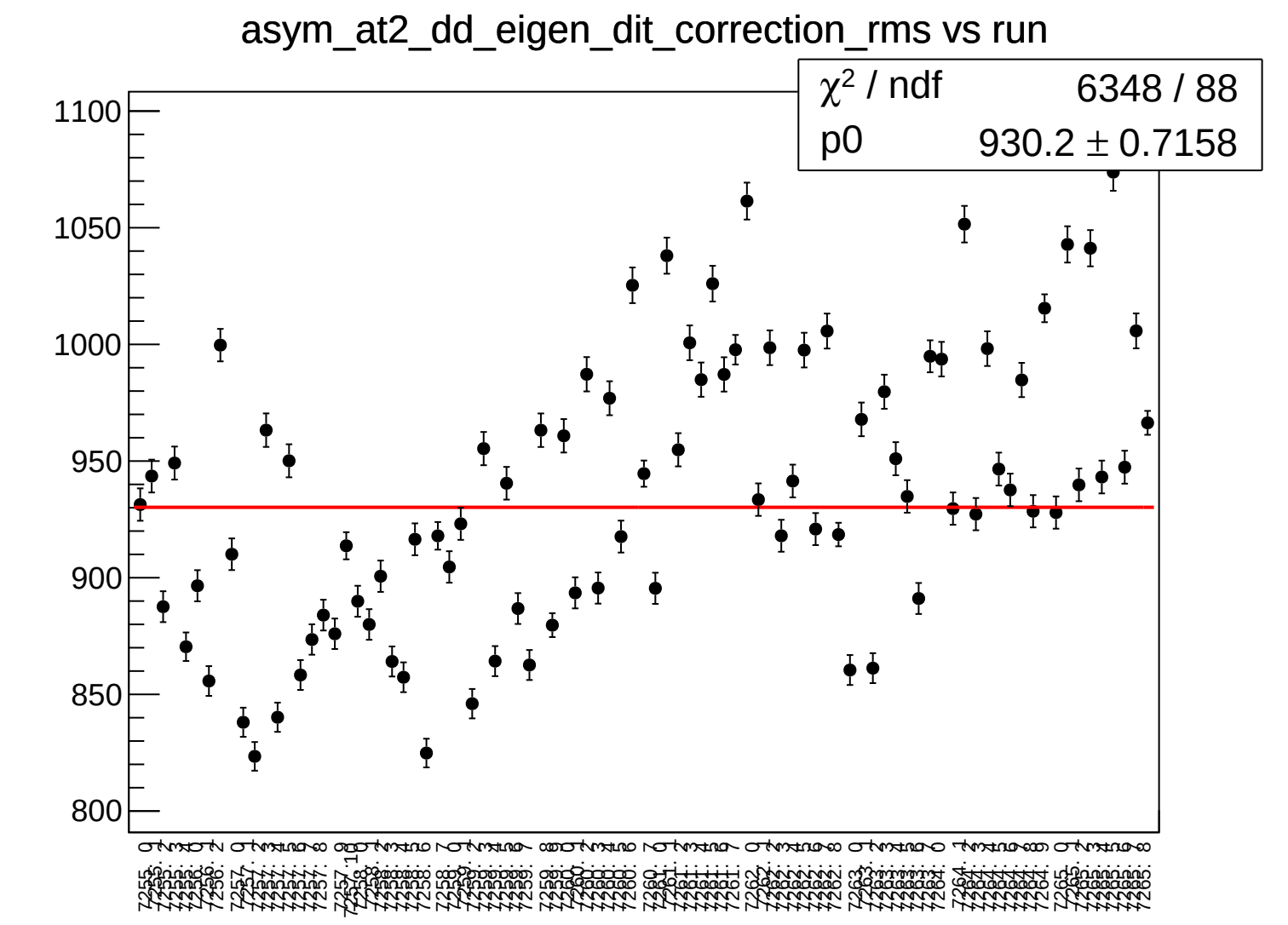

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 78.39 / 88
p0 −1049 ± 1751
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −926.2
Std Dev 0
2
1
0
−1
−2

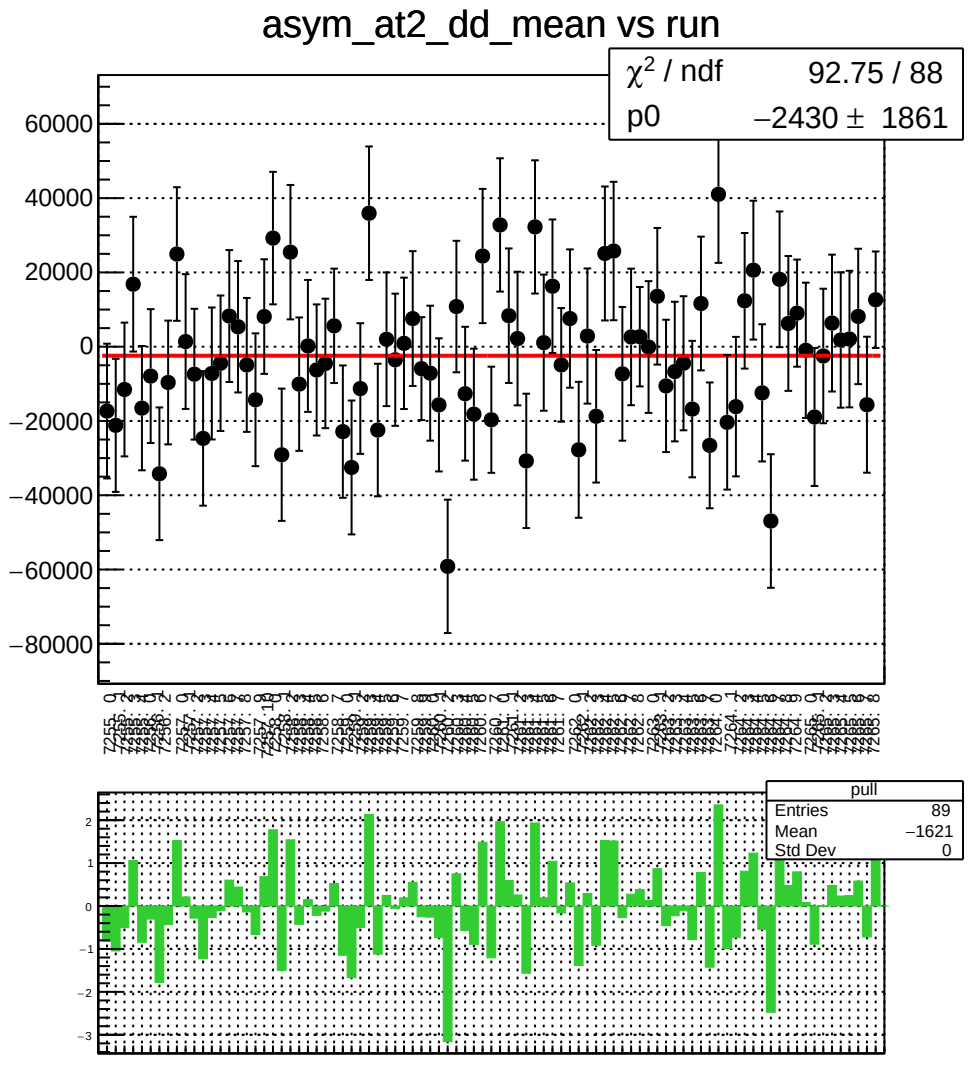

pull1D
Entries 89
Mean −4.839e−05
Std Dev 0.9385
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

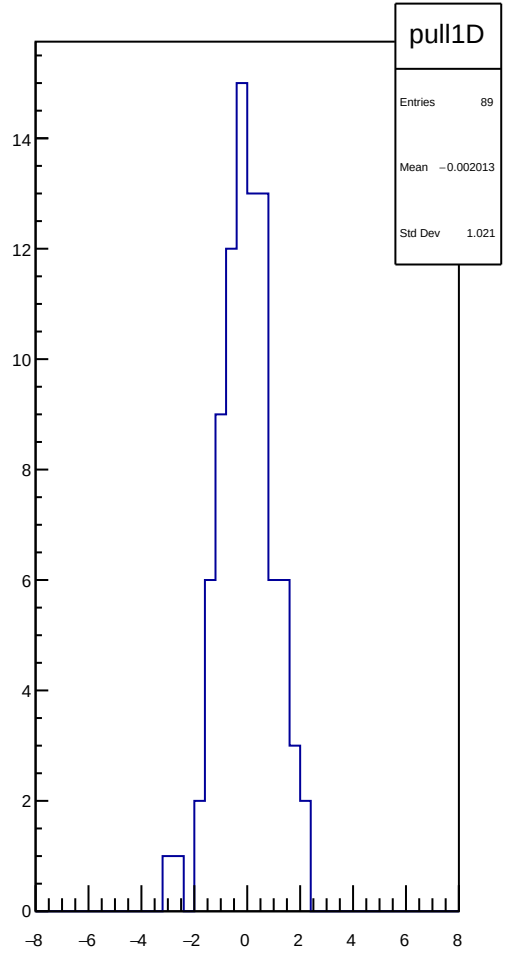

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 866 / 88
p0 1611 ± 1.238
1680
1660
1640
1620
1600
1580
1560
1540
1520

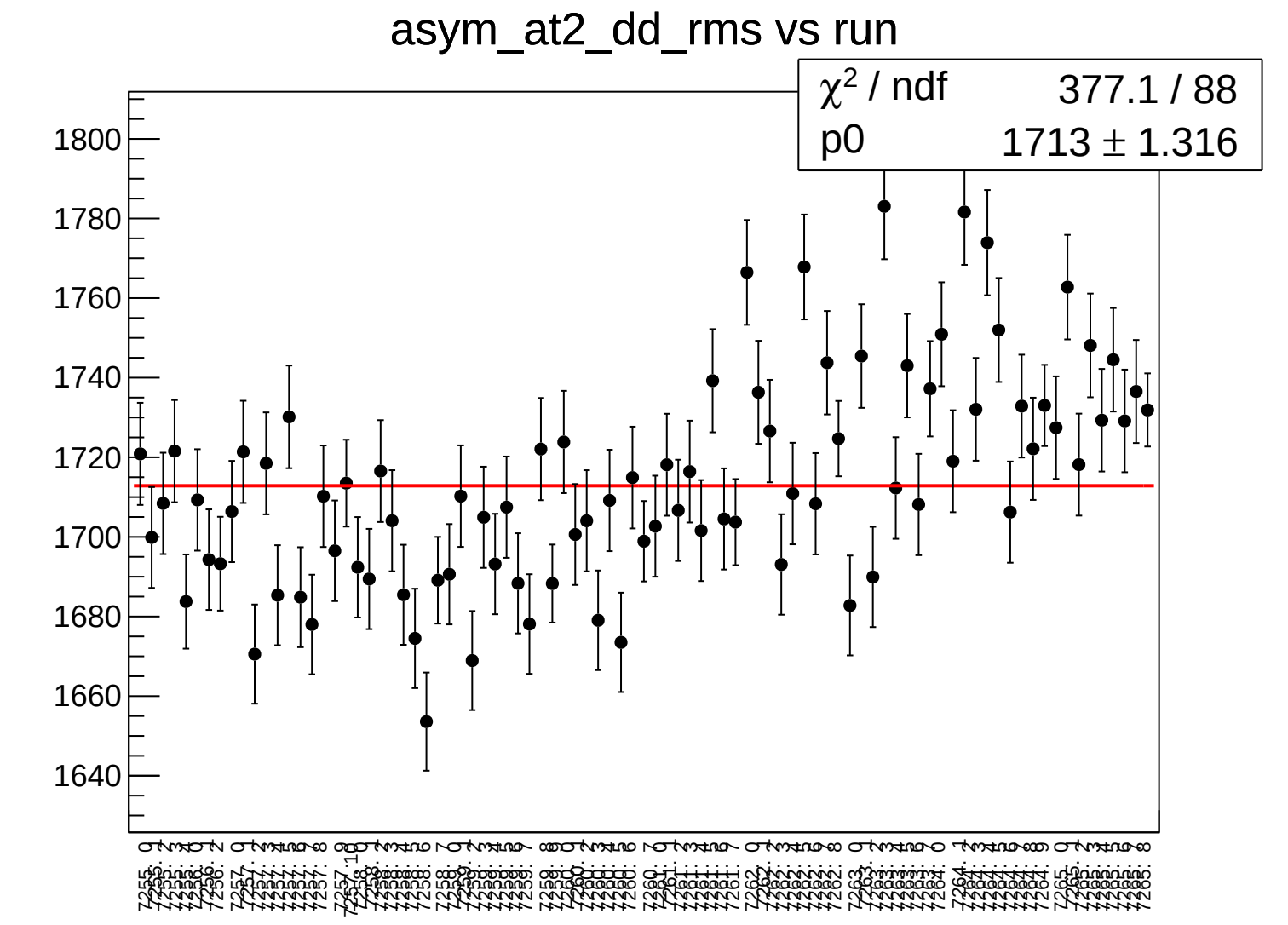

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.21 / 88
p0 1386 ± 1012
pull
Entries 89
Mean −1553
Std Dev 0

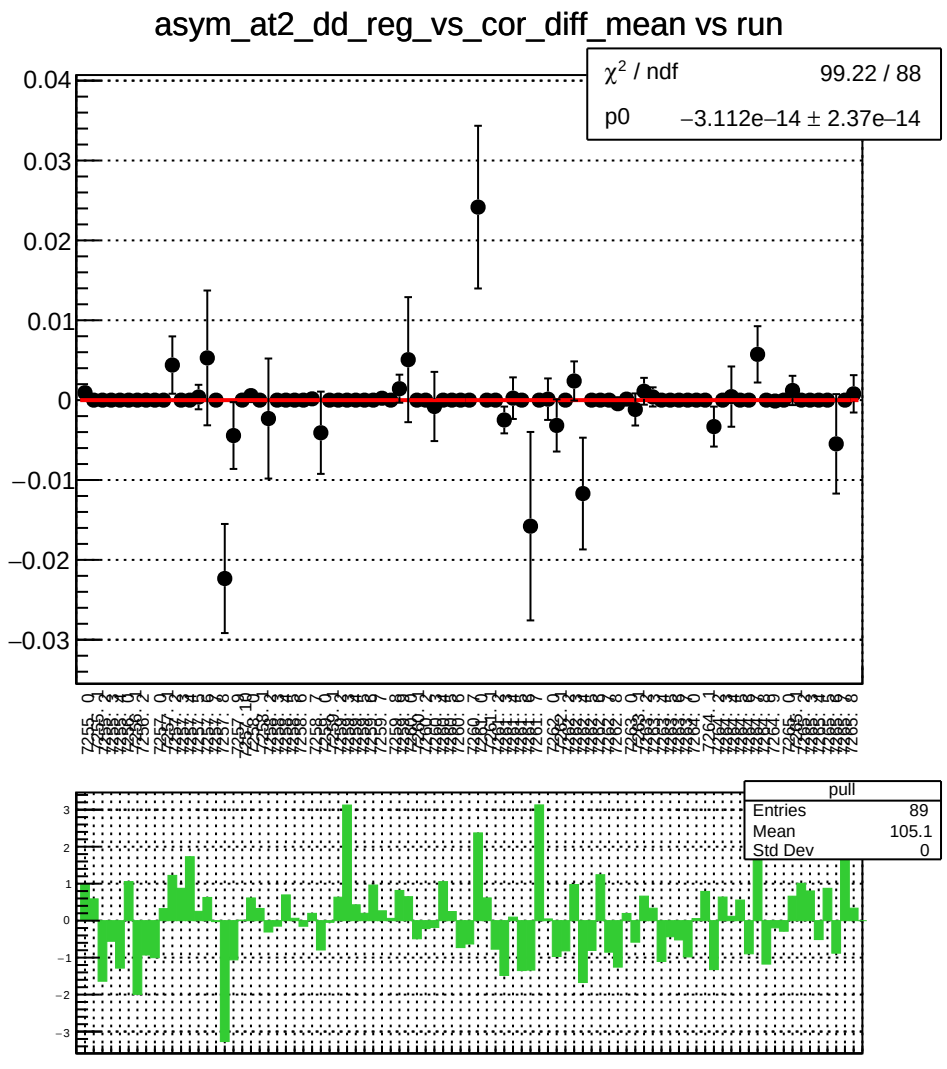

pull1D
Entries 89
Mean 0.003759
Std Dev 1.045

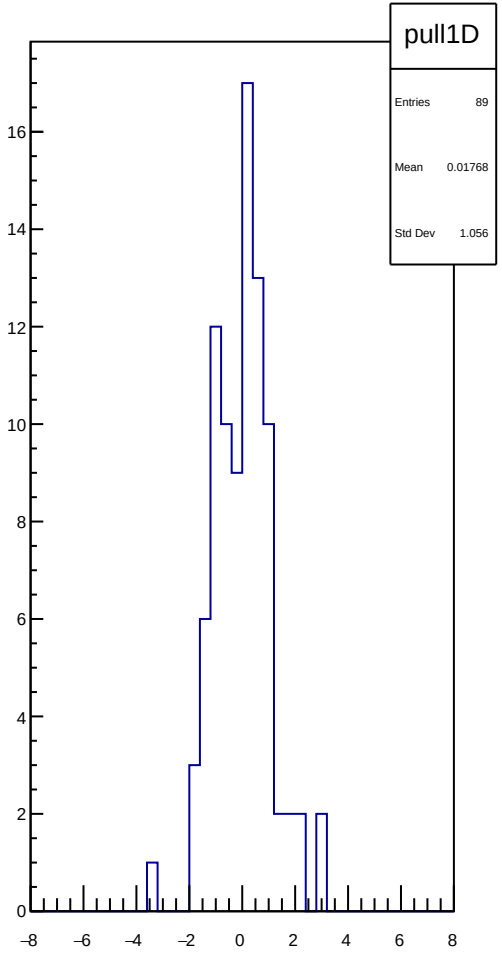

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6348 / 88
p0 930.2 ± 0.7158
1100
1050
1000
950
900
850
800

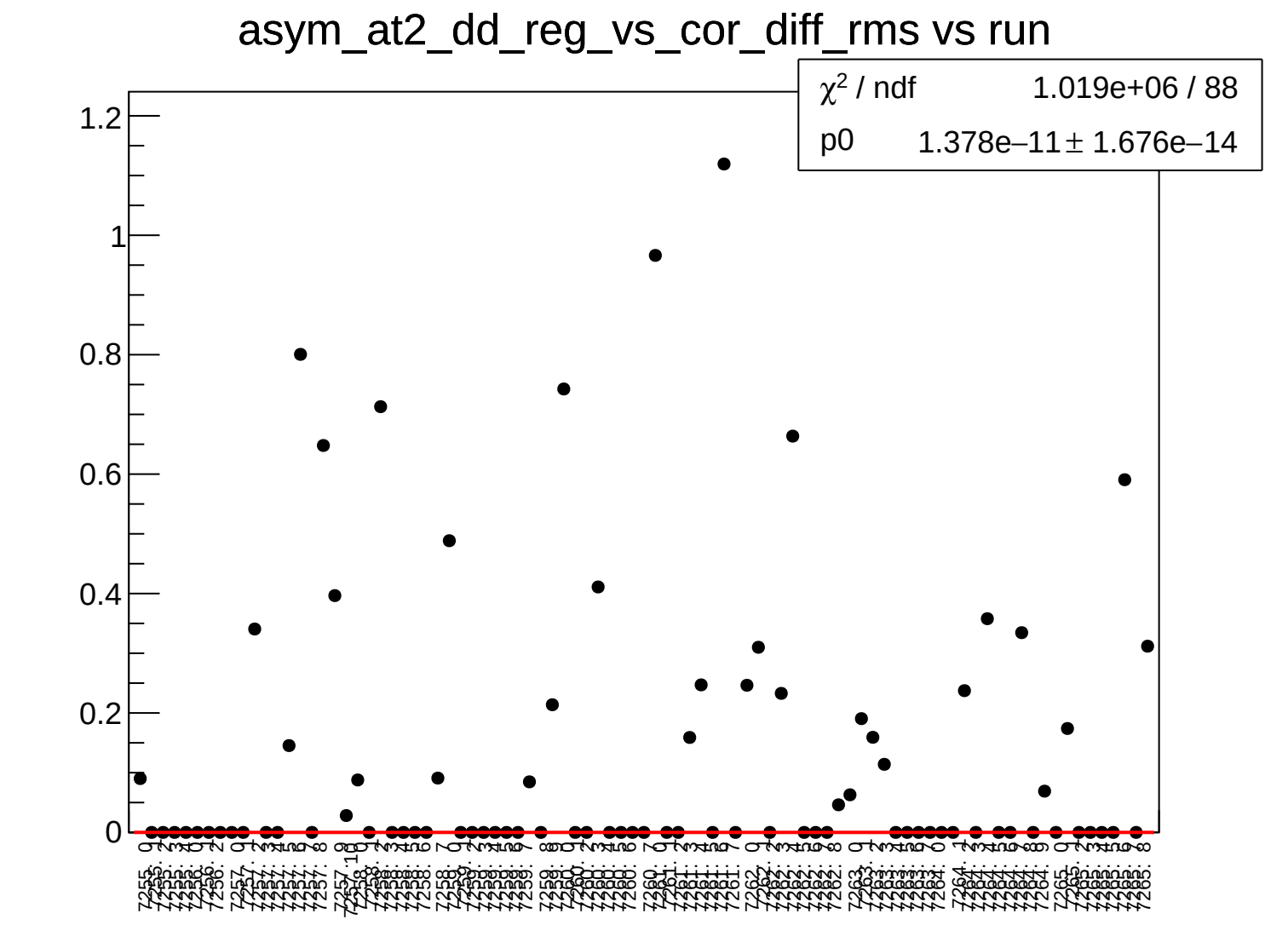

asym_at2_dd_mean vs run
χ² / ndf 92.75 / 88
p0 −2430 ± 1861
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −1621
Std Dev 0
2
1
0
−1
−2
−3

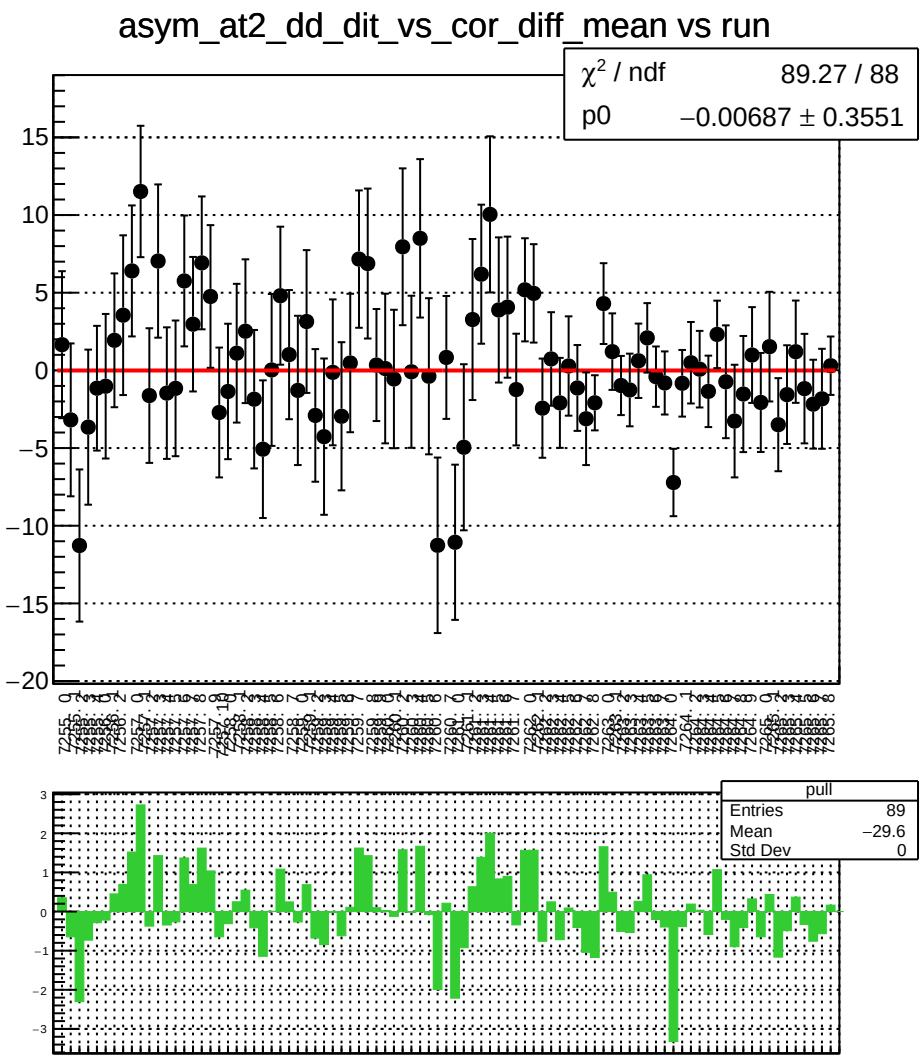

pull1D
Entries 89
Mean −0.002013
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

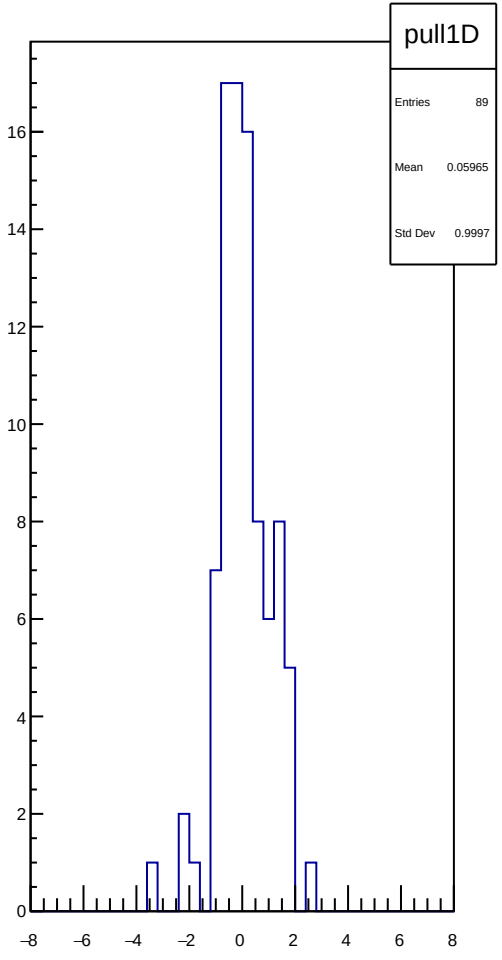

asym_at2_dd_rms vs run
χ² / ndf 377.1 / 88
p0 1713 ± 1.316
1800
1780
1760
1740
1720
1700
1680
1660
1640

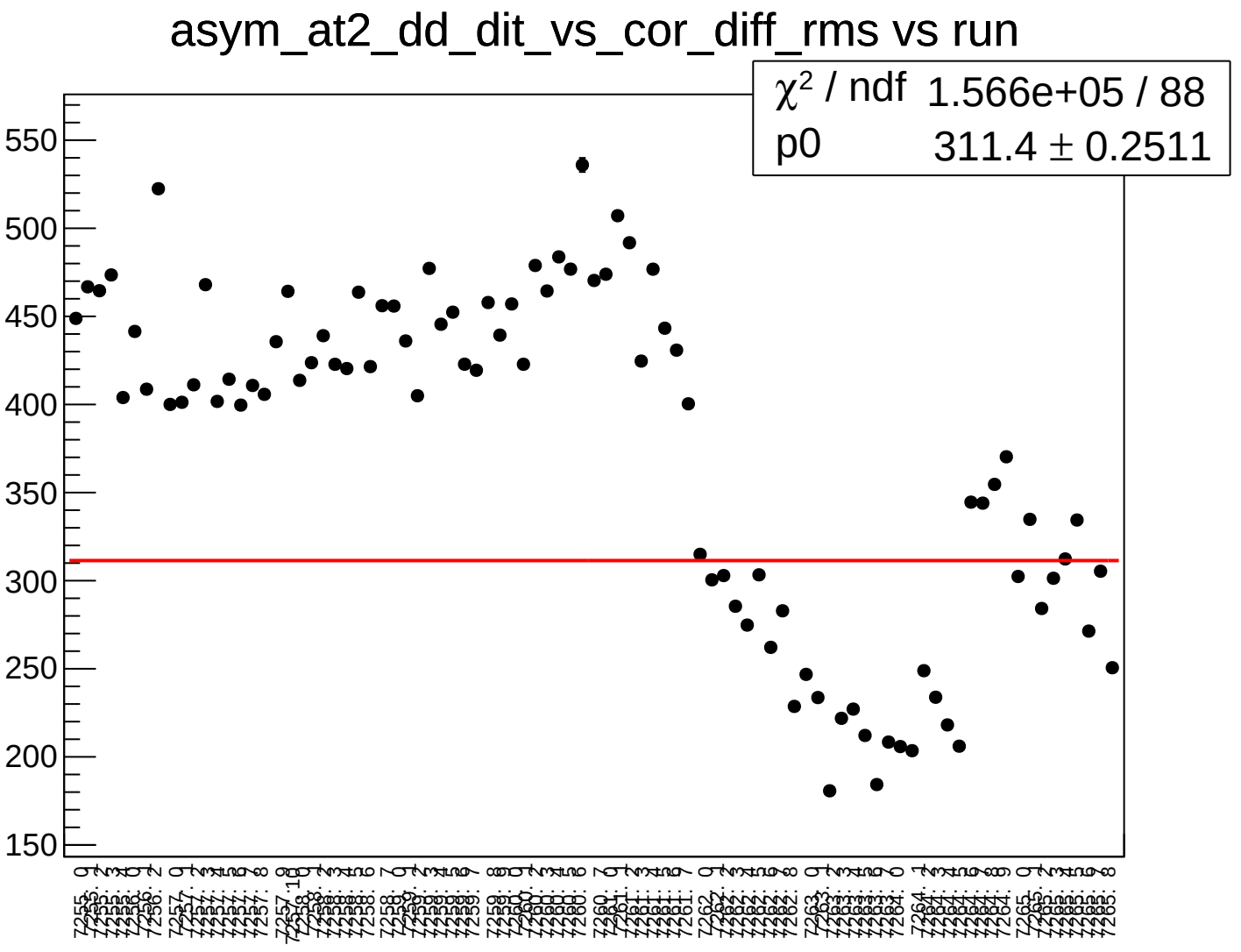

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.22 / 88
p0 −3.112e−14 ± 2.37e−14
pull
Entries 89
Mean 105.1
Std Dev 0

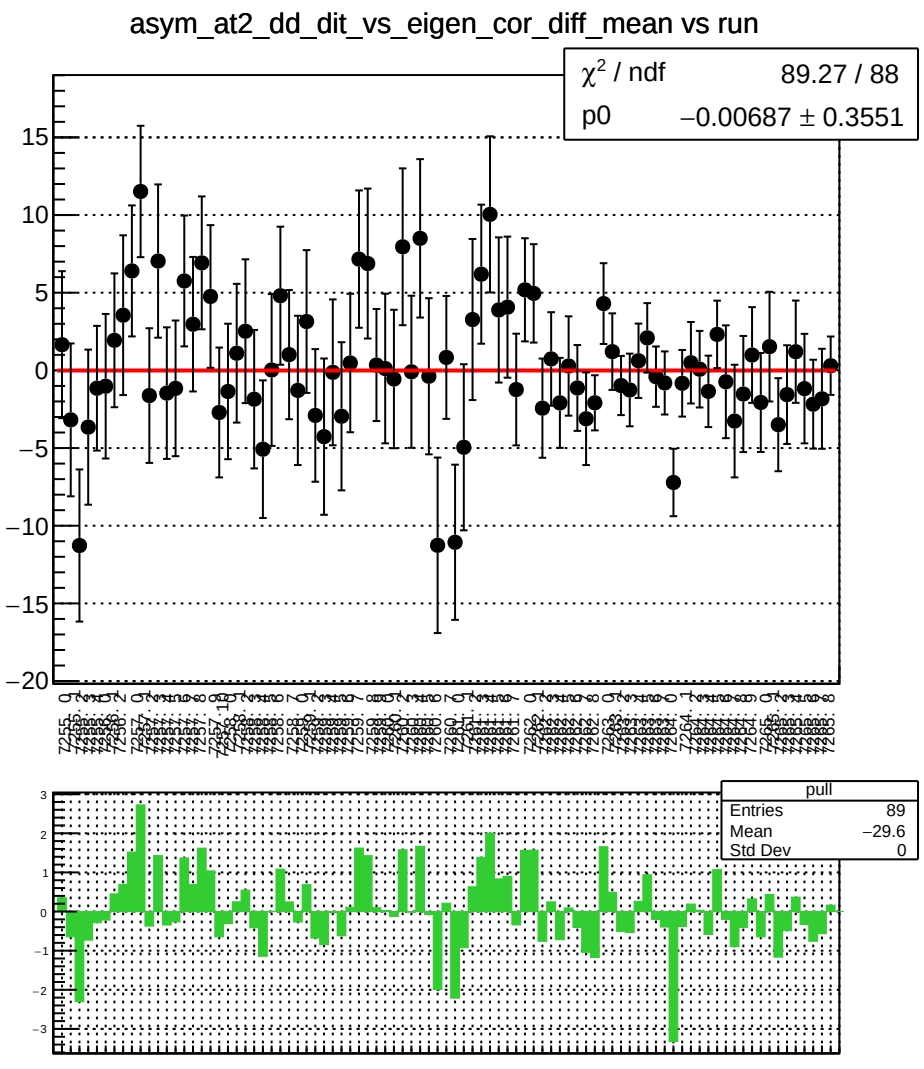

pull1D
Entries 89
Mean 0.01768
Std Dev 1.056

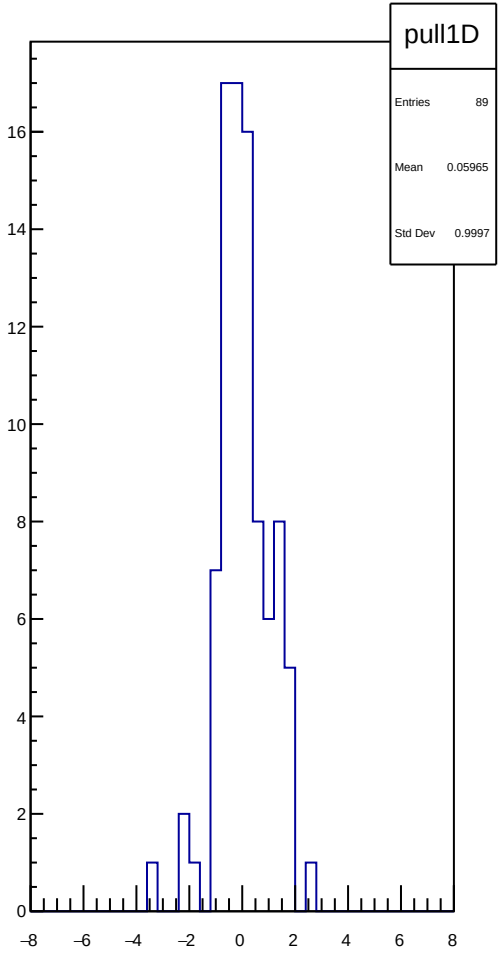

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.019e+06 / 88
p0 1.378e−11 ± 1.676e−14
1.2
1
0.8
0.6
0.4
0.2
0

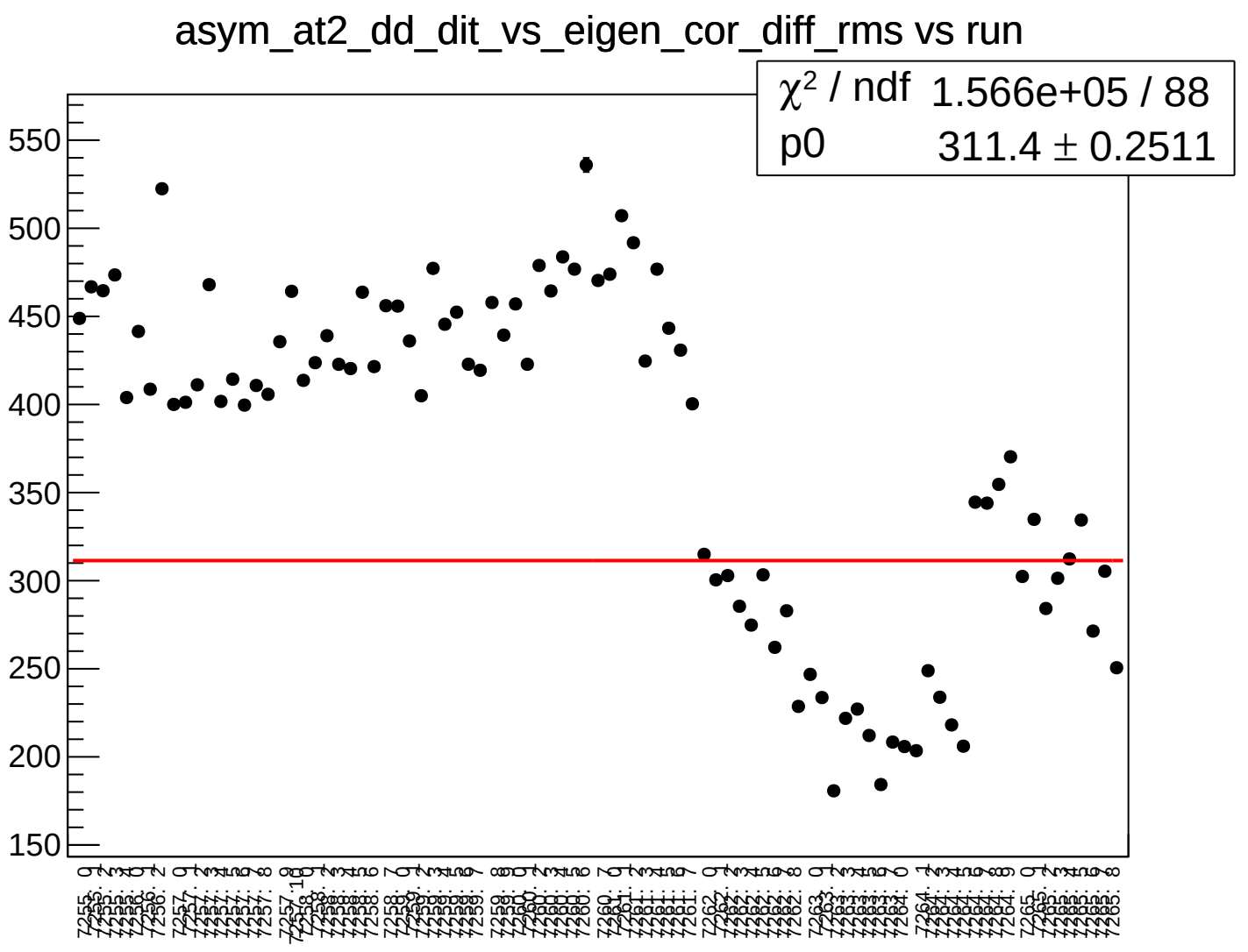

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.27 / 88
p0 −0.00687 ± 0.3551
pull
Entries 89
Mean −29.6
Std Dev 0

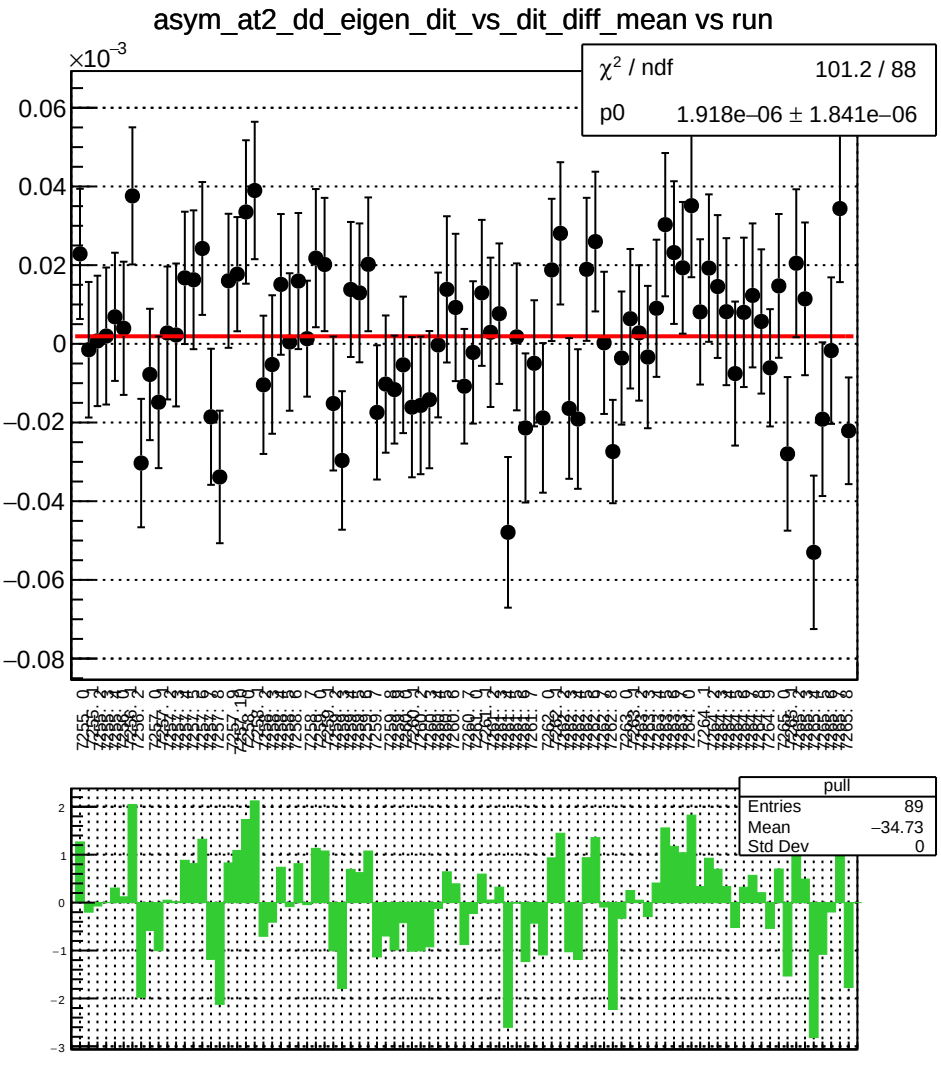

pull1D
Entries 89
Mean 0.05965
Std Dev 0.9997

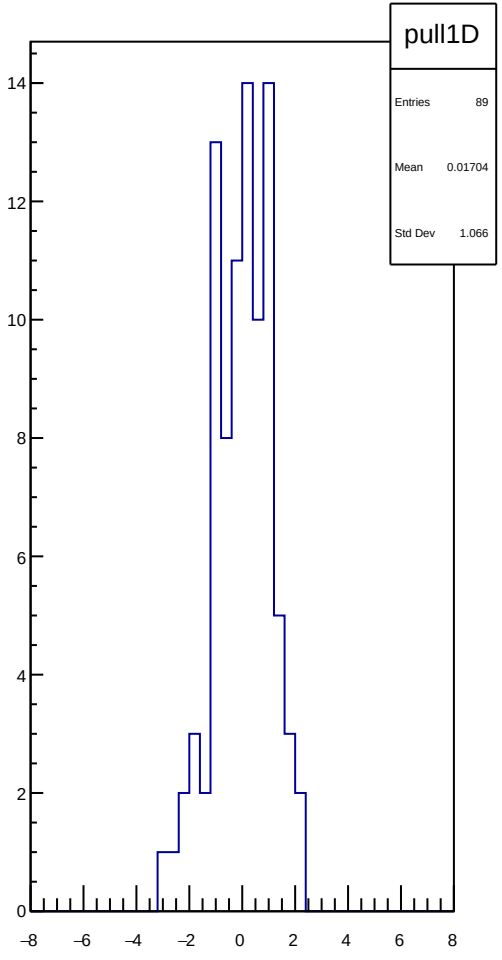

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.566e+05 / 88
p0 311.4 ± 0.2511
550
500
450
400
350
300
250
200
150

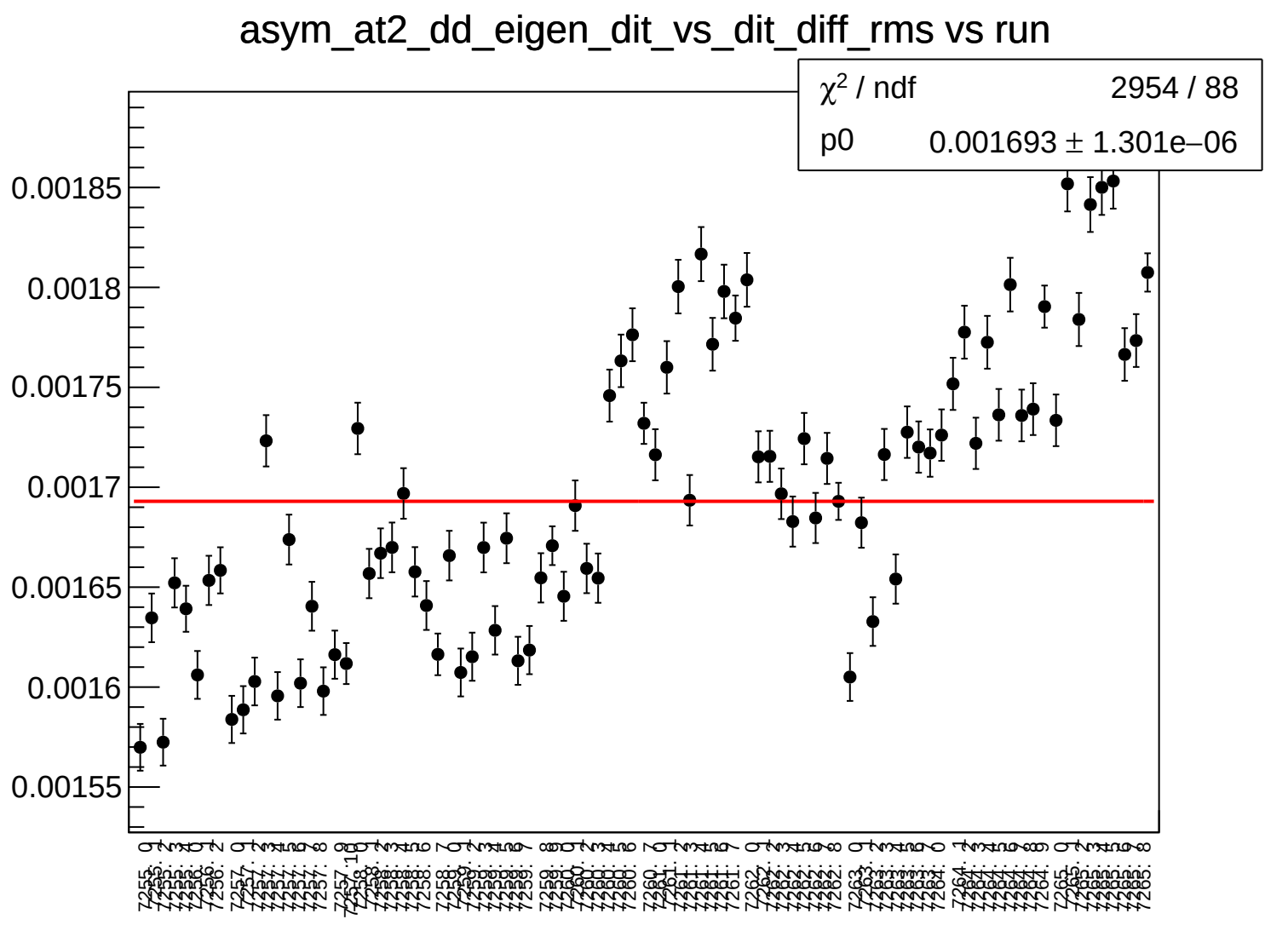

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.27 / 88
p0 −0.00687 ± 0.3551
pull
Entries 89
Mean −29.6
Std Dev 0

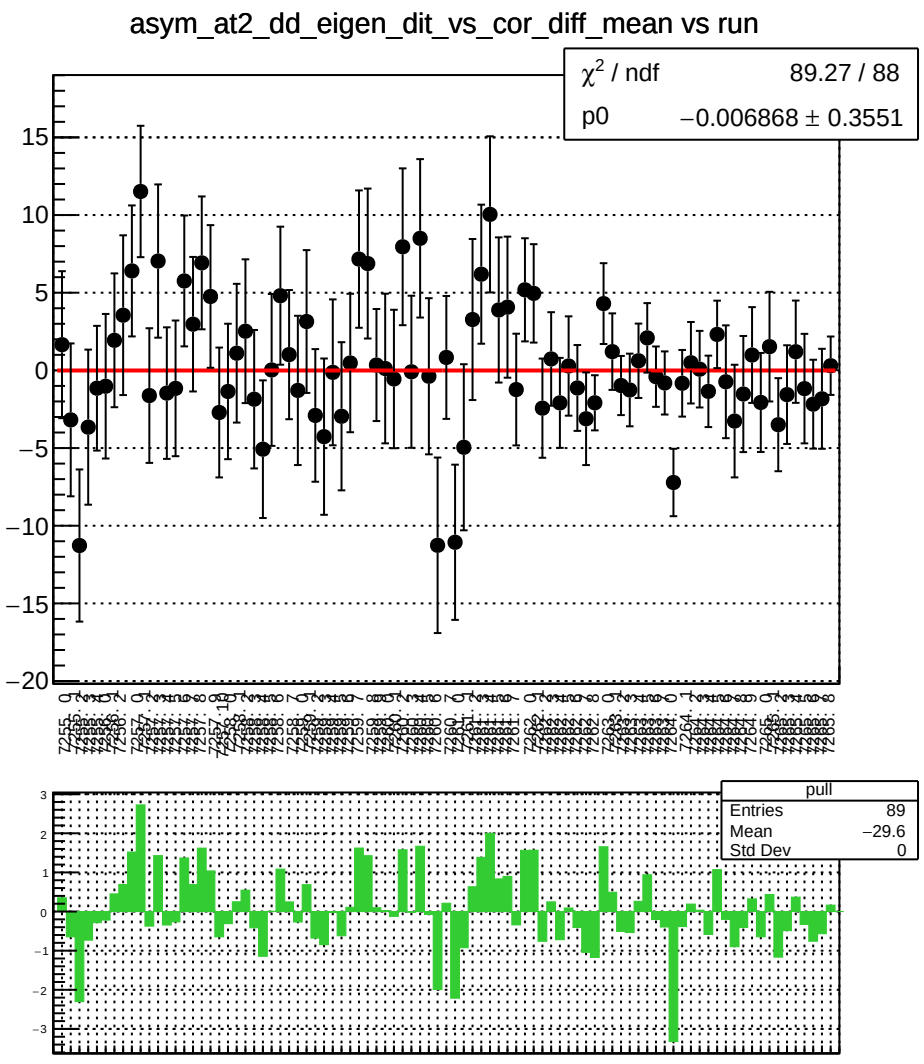

pull1D
Entries 89
Mean 0.05965
Std Dev 0.9997

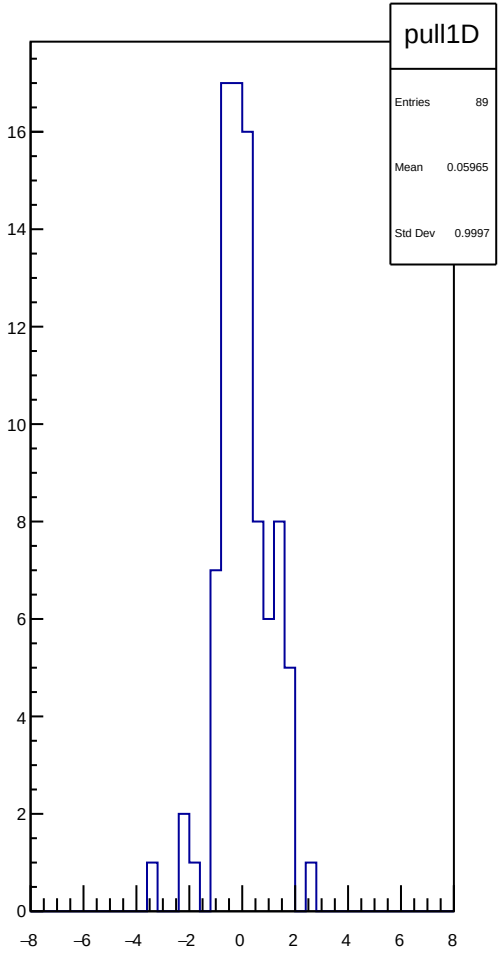

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.566e+05 / 88
p0 311.4 ± 0.2511
550
500
450
400
350
300
250
200
150

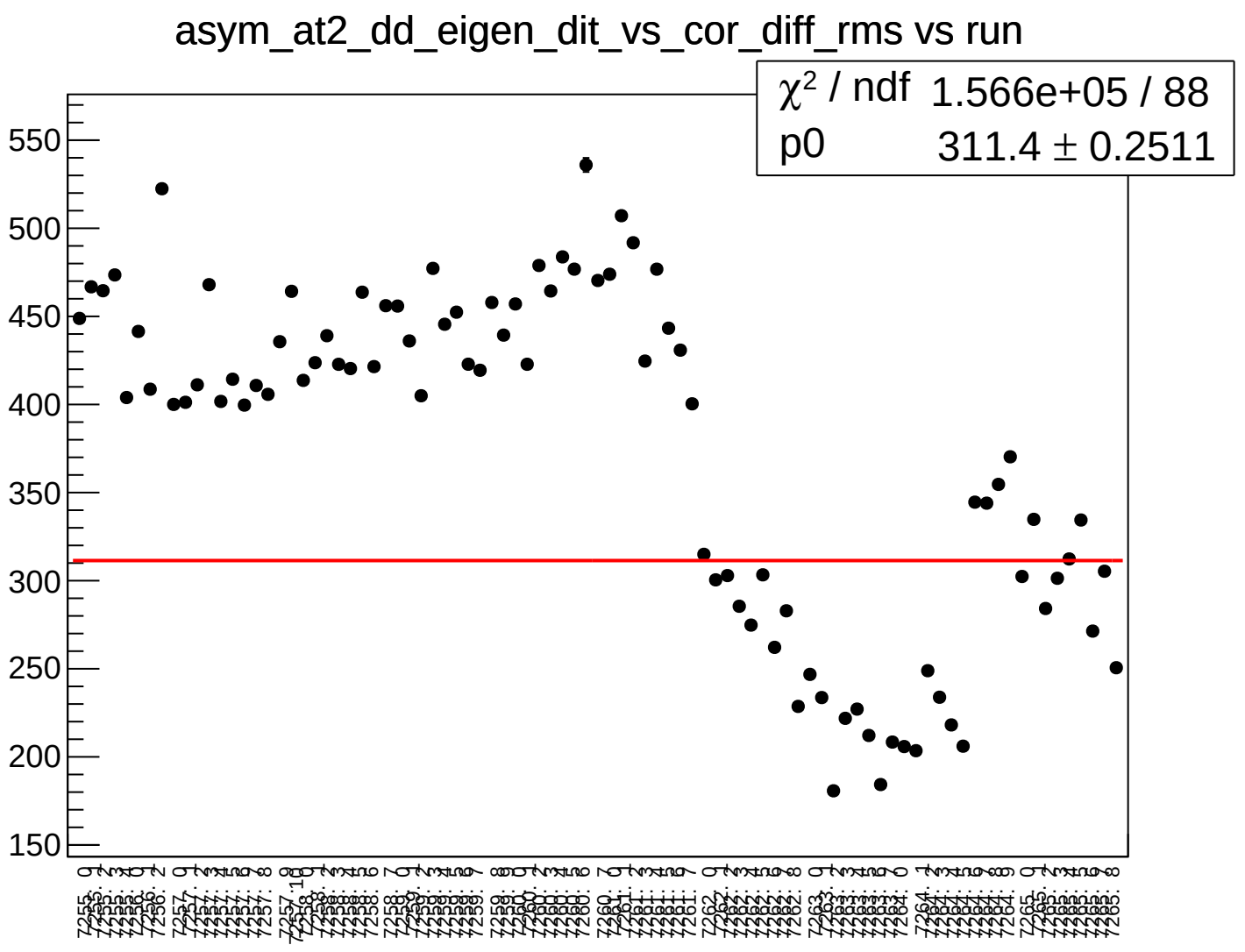

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.2 / 88
p0 1.918e−06 ± 1.841e−06
pull
Entries 89
Mean −34.73
Std Dev 0

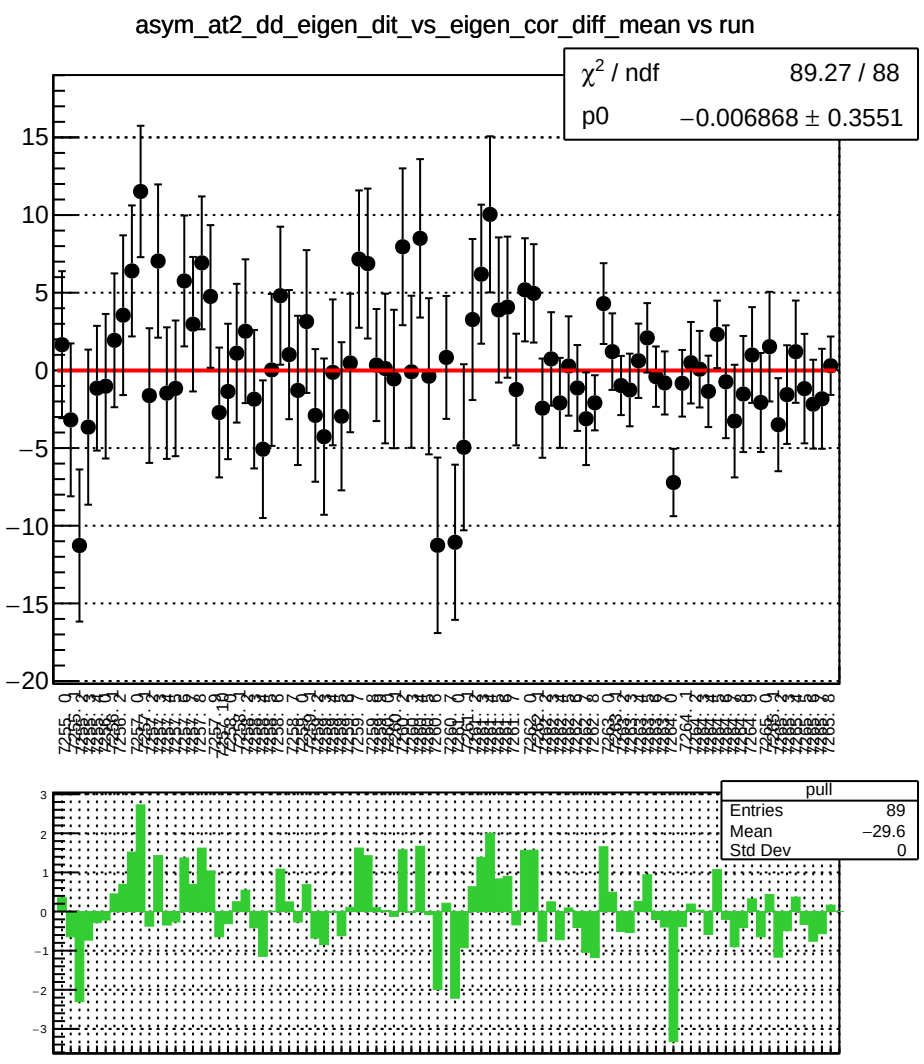

pull1D
Entries 89
Mean 0.01704
Std Dev 1.066

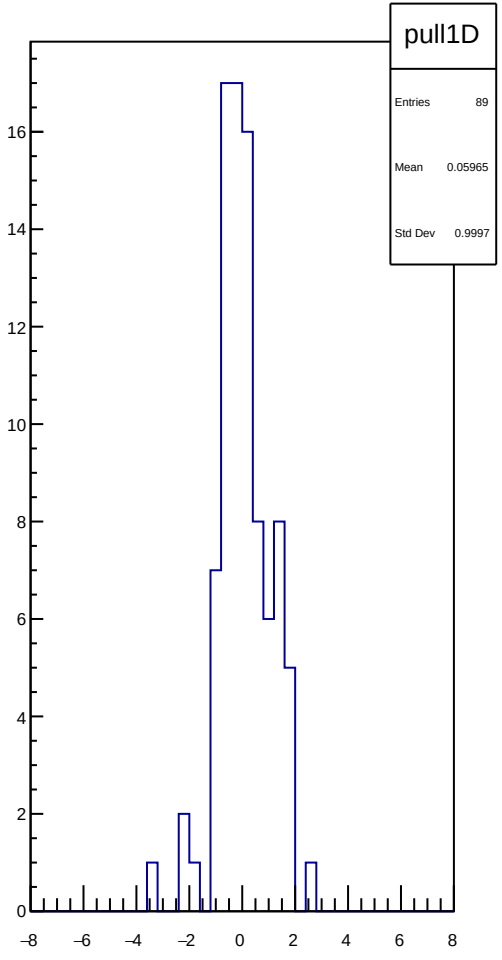

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2954 / 88
p0 0.001693 ± 1.301e−06
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155

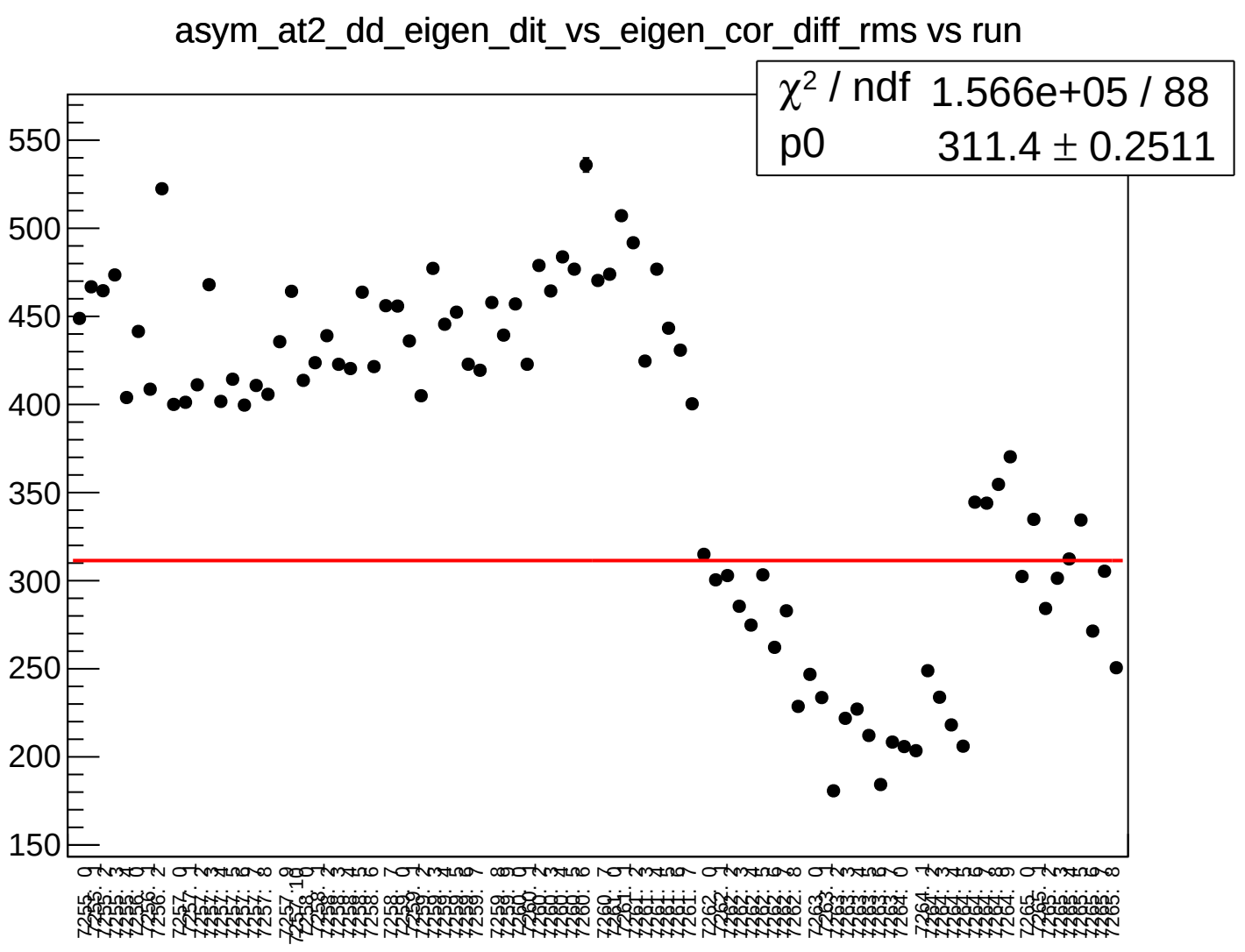

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.27 / 88
p0 −0.006868 ± 0.3551
pull
Entries 89
Mean −29.6
Std Dev 0

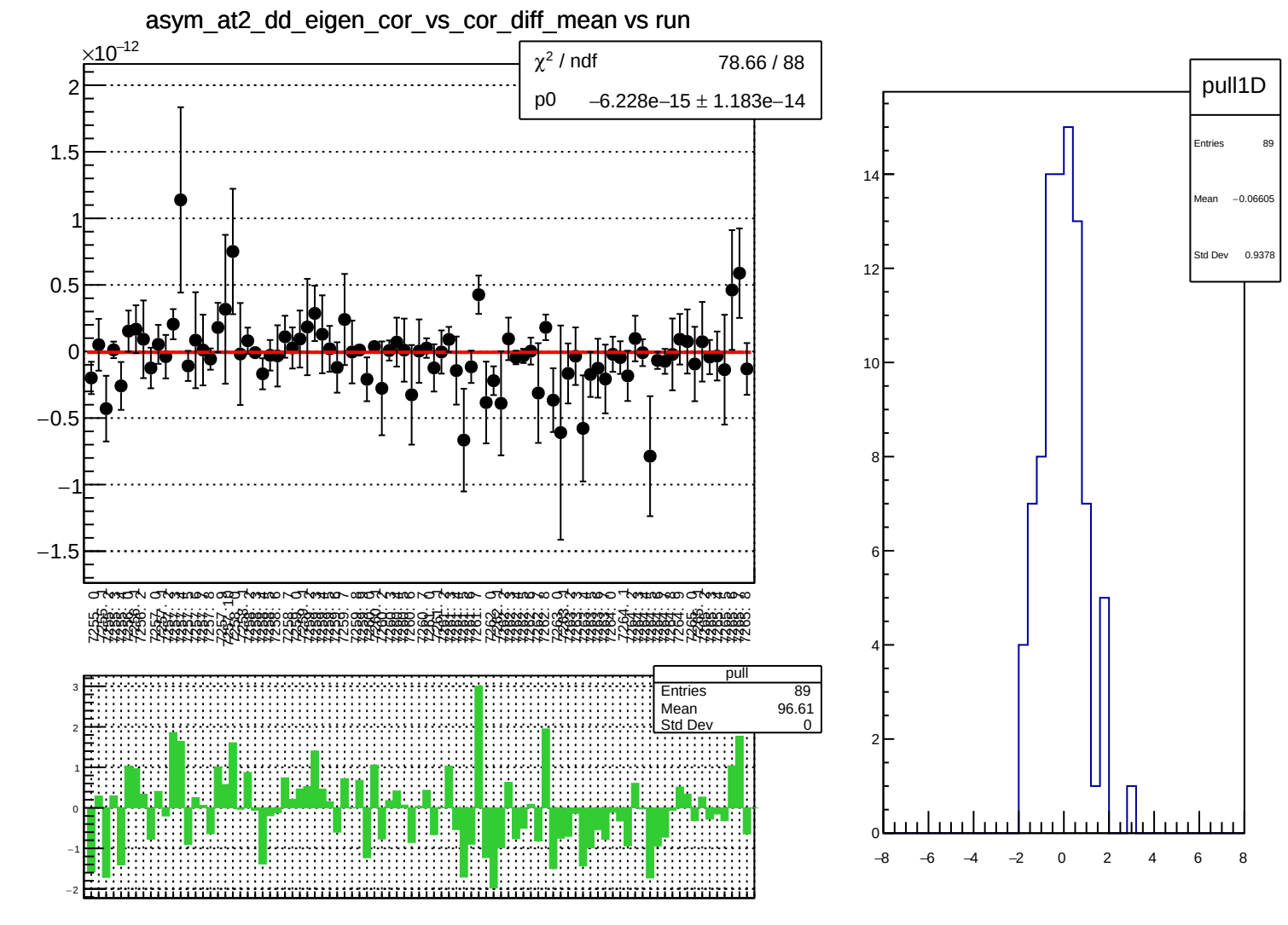

pull1D
Entries 89
Mean 0.05965
Std Dev 0.9997

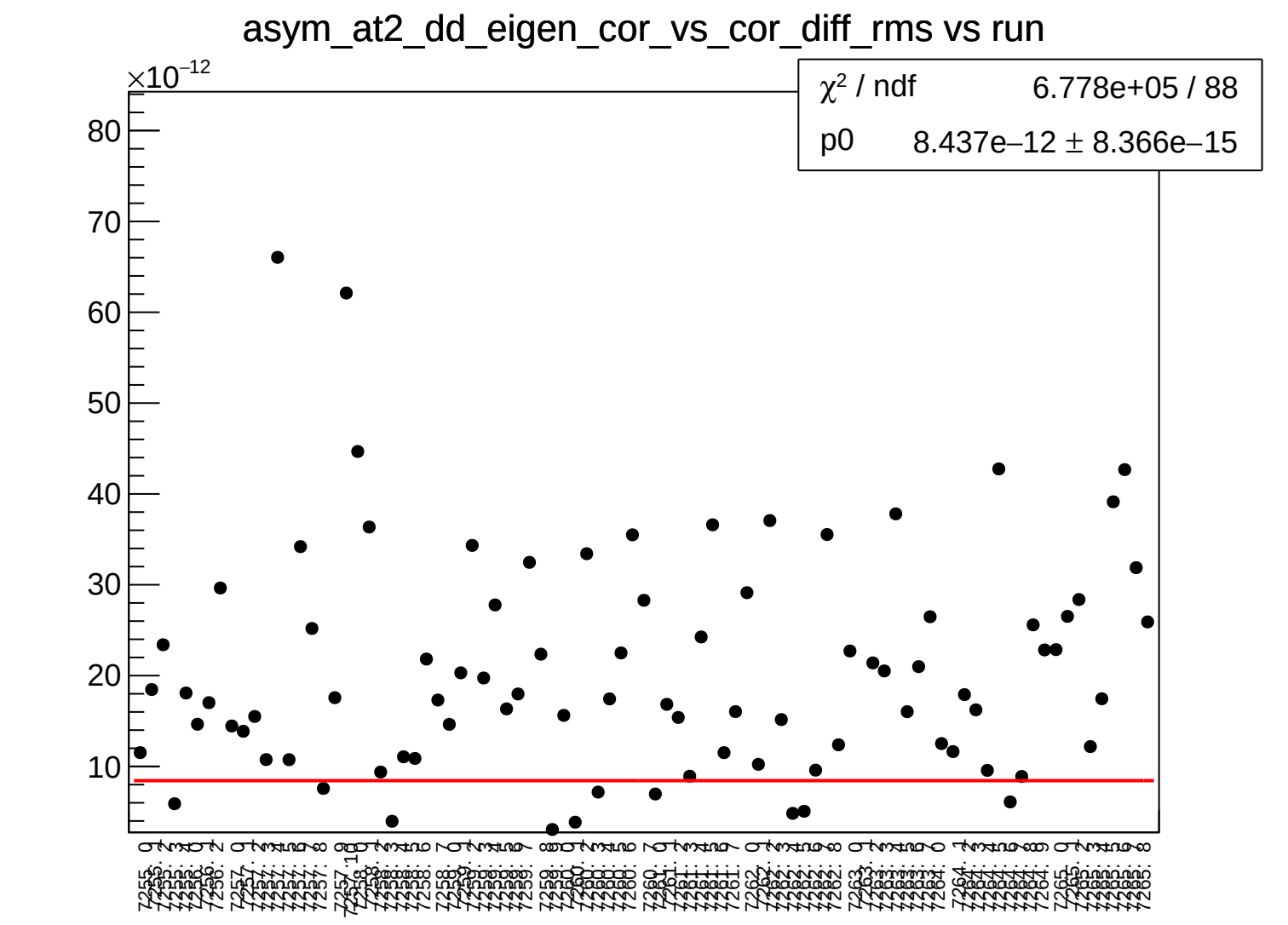

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.566e+05 / 88
p0 311.4 ± 0.2511
550
500
450
400
350
300
250
200
150

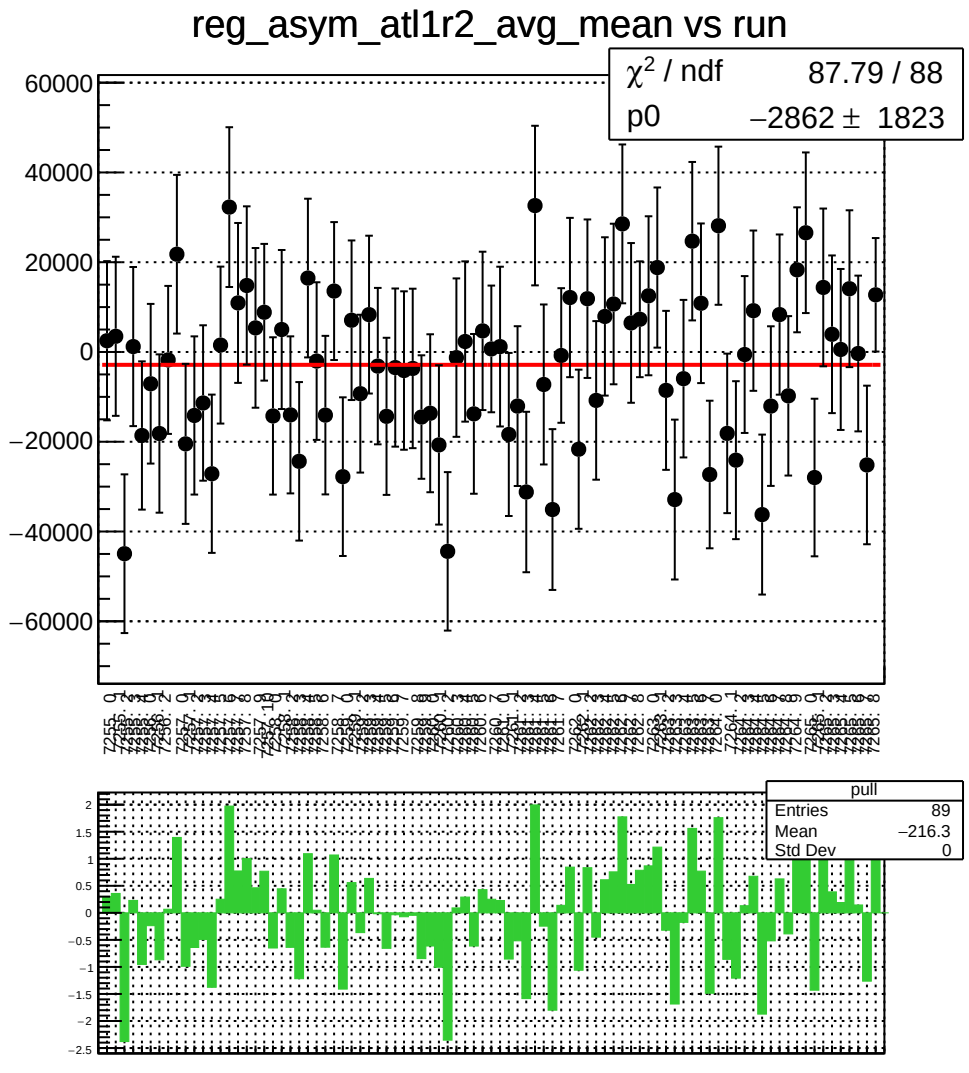

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.27 / 88
p0 −0.006868 ± 0.3551
pull
Entries 89
Mean −29.6
Std Dev 0

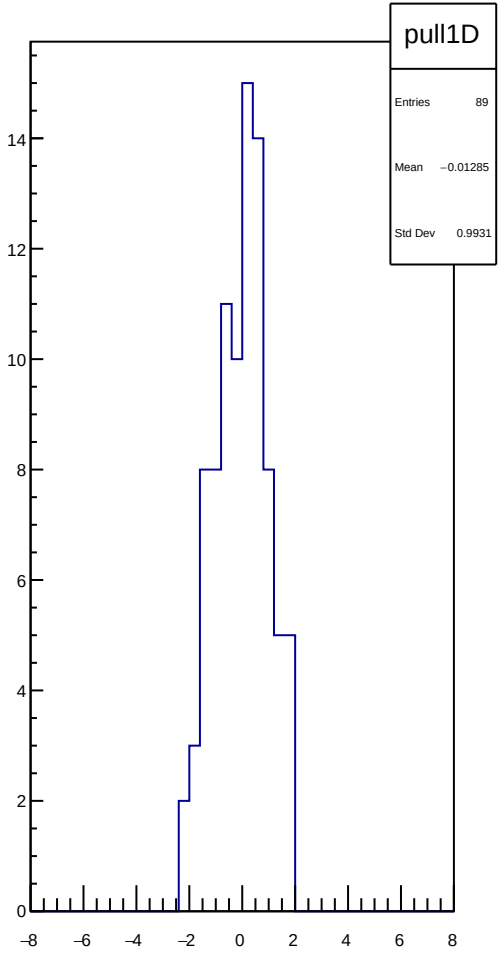

pull1D
Entries 89
Mean 0.05965
Std Dev 0.9997

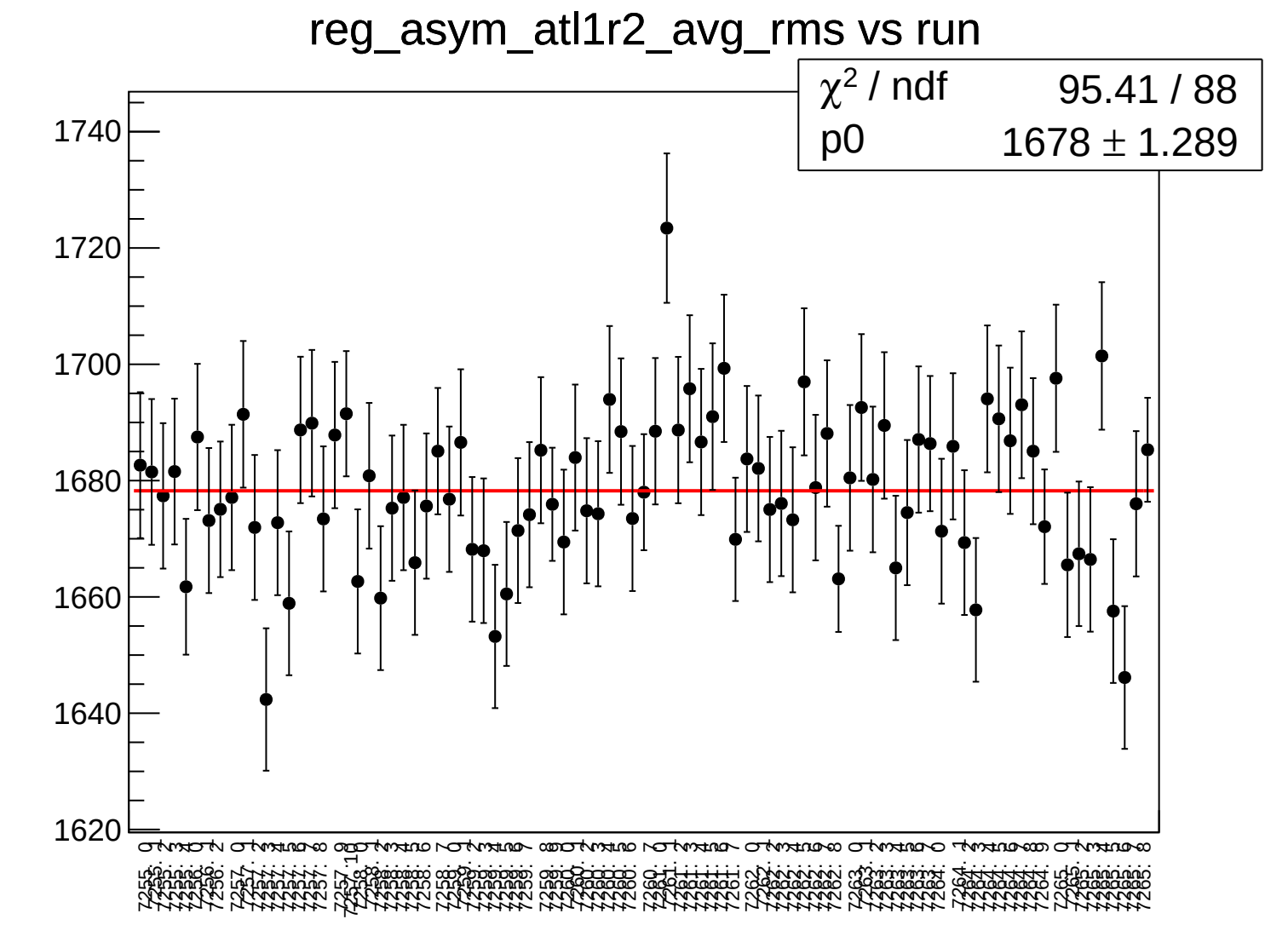

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.566e+05 / 88
p0 311.4 ± 0.2511
550
500
450
400
350
300
250
200
150

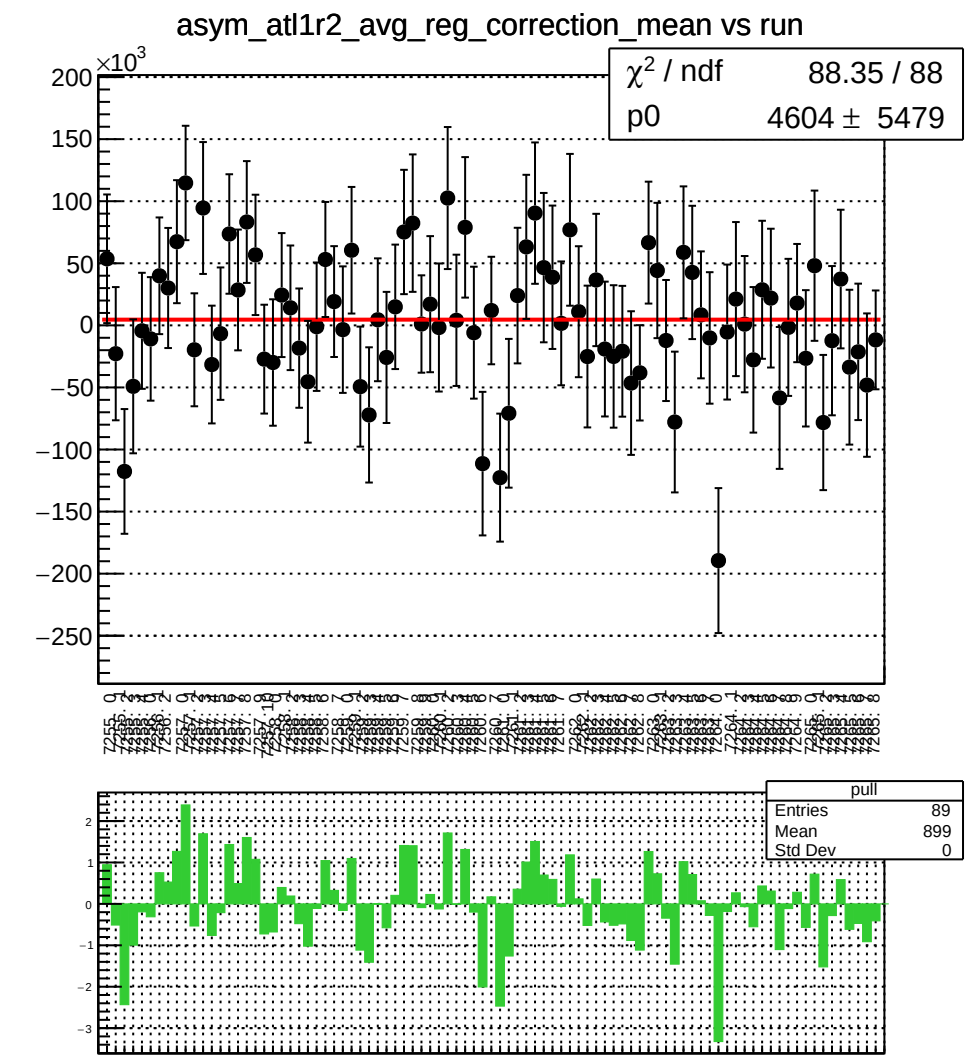

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 78.66 / 88
p0 −6.228e−15 ± 1.183e−14
pull
Entries 89
Mean 96.61
Std Dev 0
pull1D
Entries 89
Mean −0.06605
Std Dev 0.9378

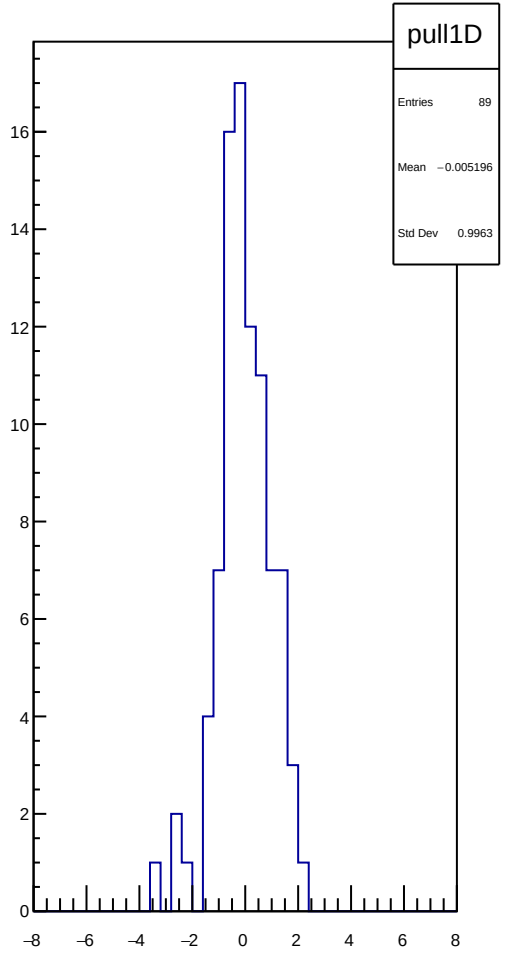

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.778e+05 / 88
p0 8.437e−12 ± 8.366e−15
80
70
60
50
40
30
20
10

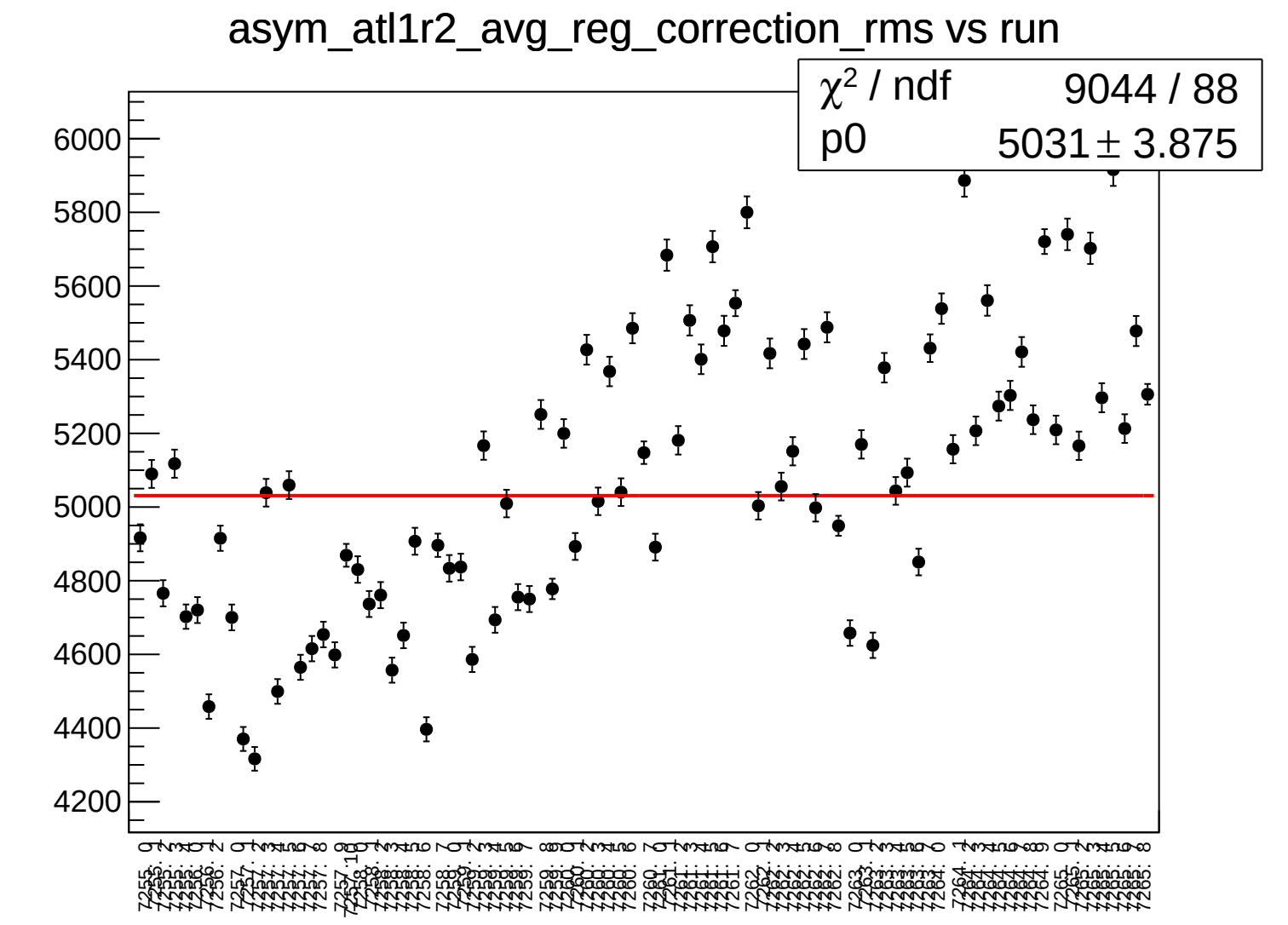

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 87.79 / 88
p0 −2862 ± 1823
pull
Entries 89
Mean −216.3
Std Dev 0

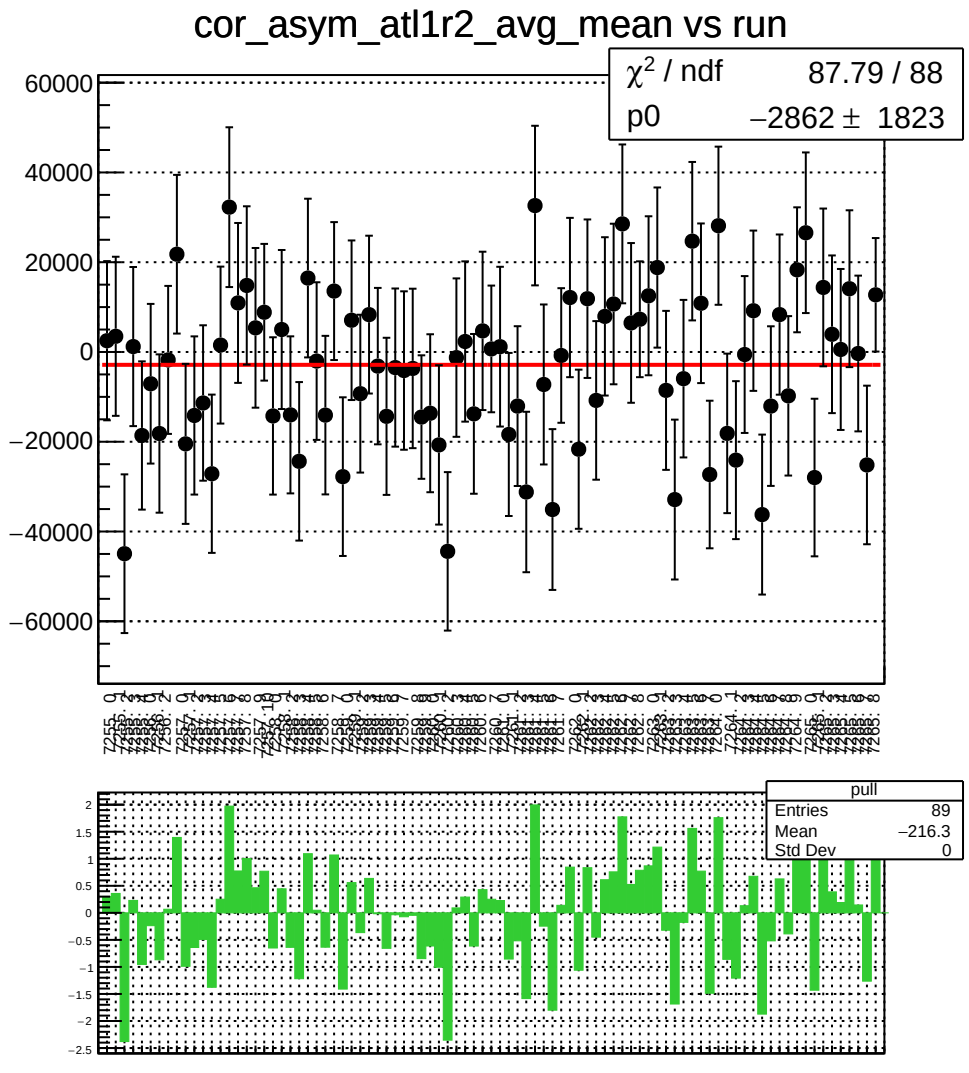

pull1D
Entries 89
Mean −0.01285
Std Dev 0.9931

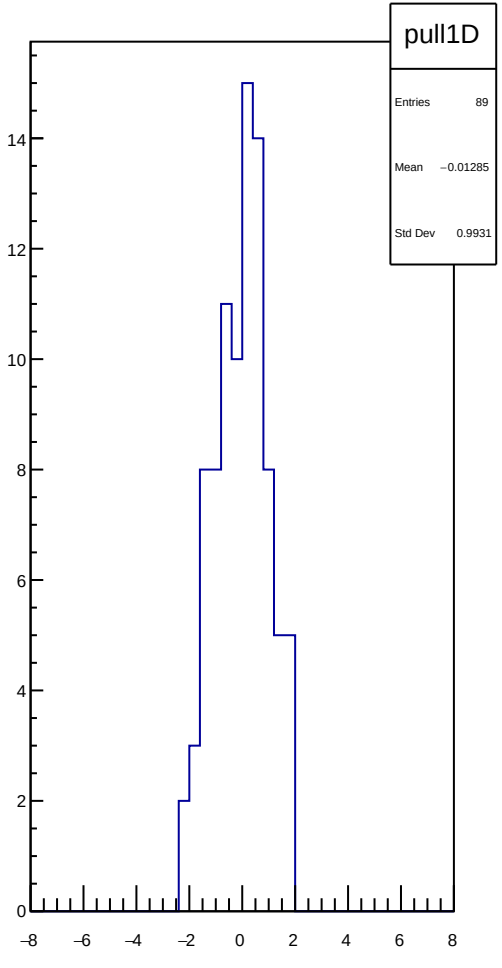

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 95.41 / 88
p0 1678 ± 1.289
1740
1720
1700
1680
1660
1640
1620

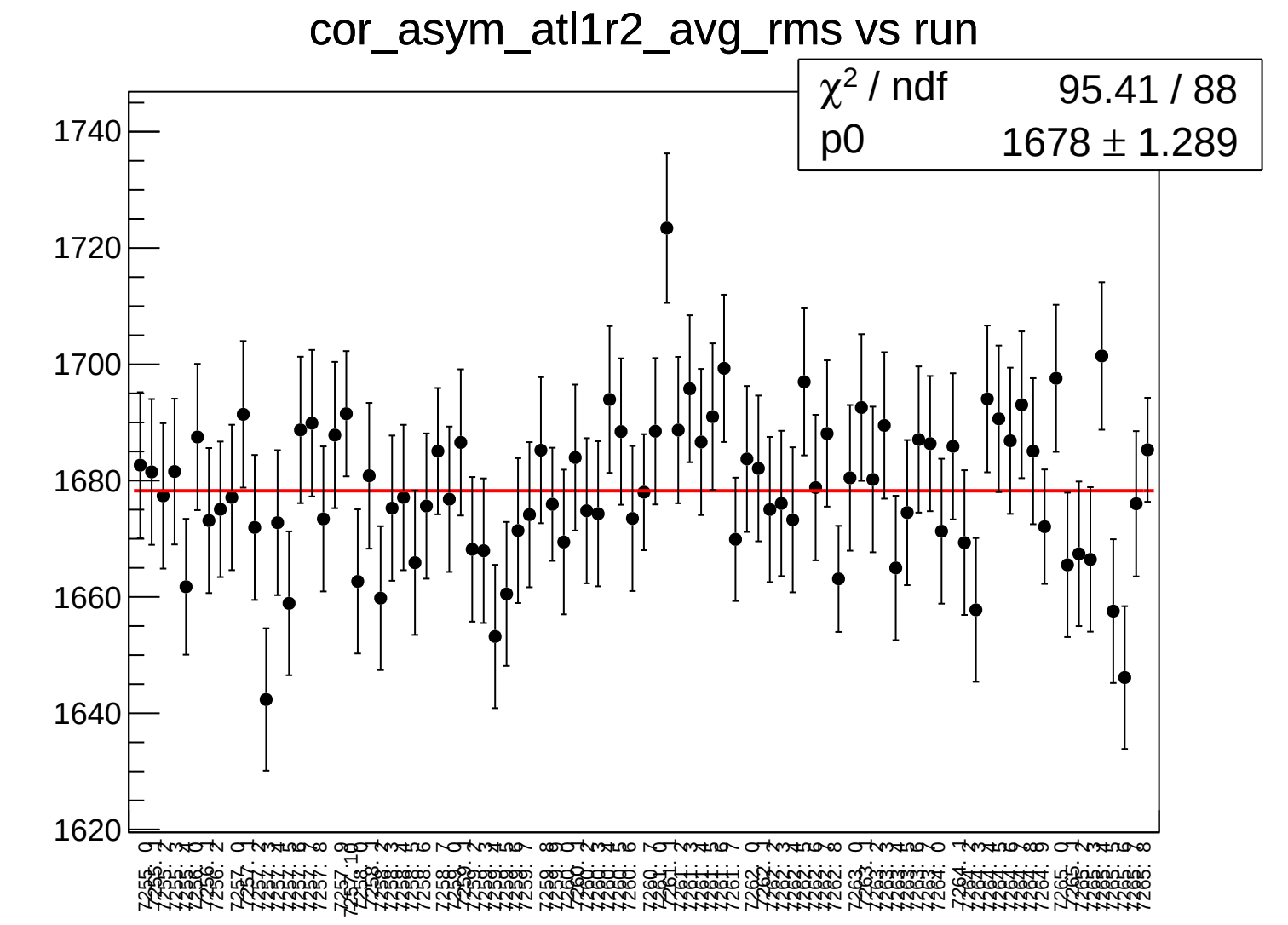

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 88.35 / 88
p0 4604 ± 5479
pull
Entries 89
Mean 899
Std Dev 0

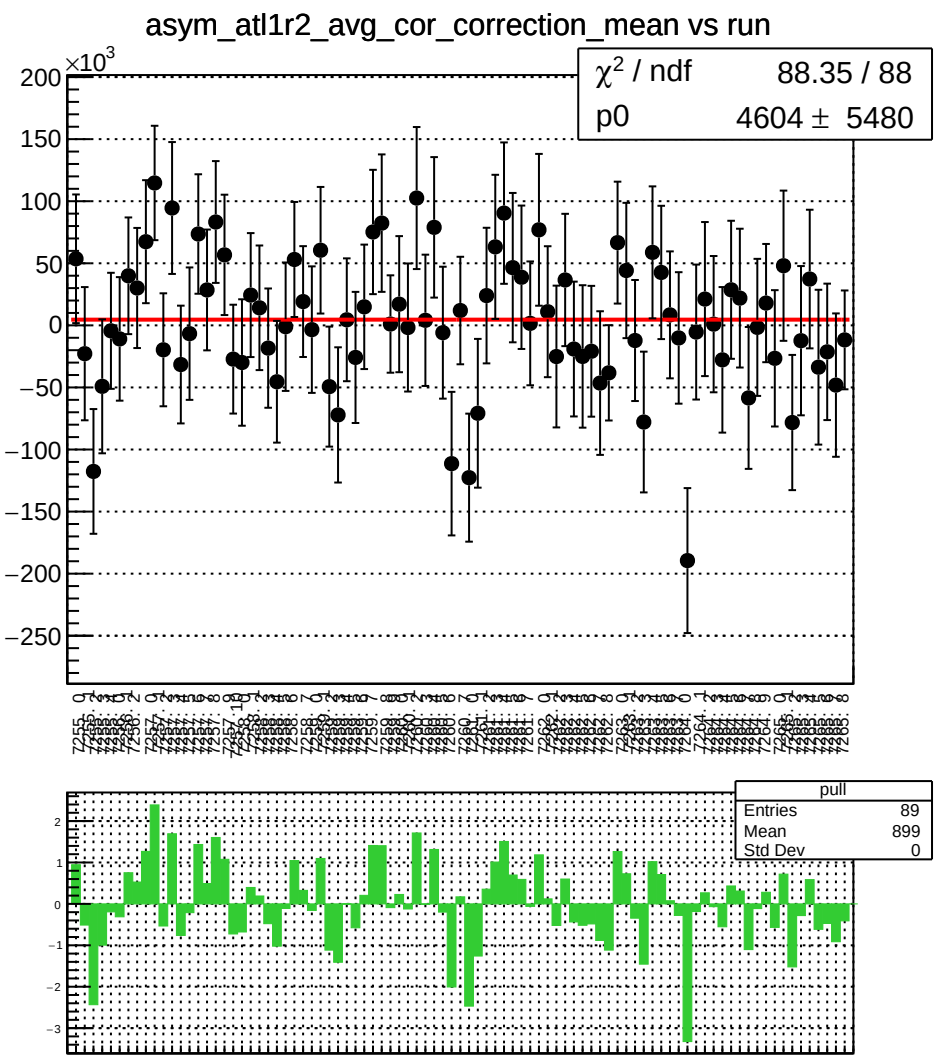

pull1D
Entries 89
Mean −0.005196
Std Dev 0.9963

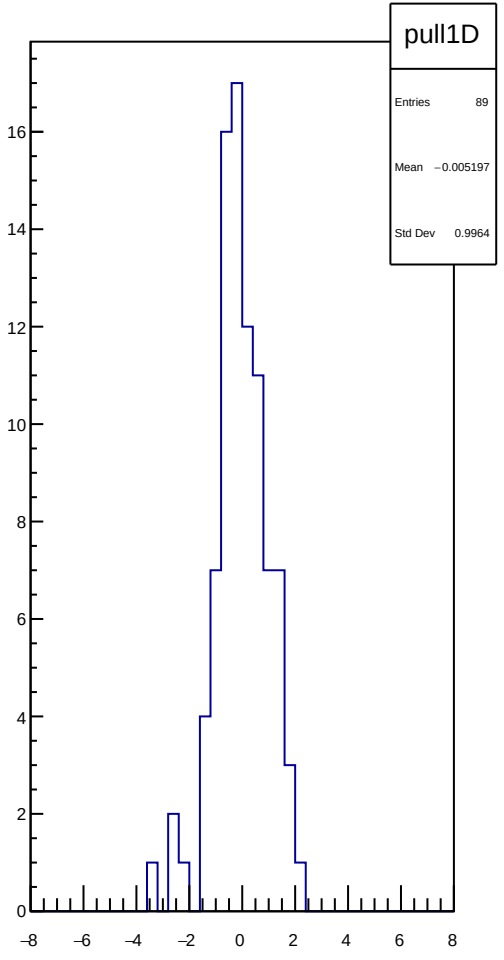

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 9044 / 88
p0 5031 ± 3.875
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

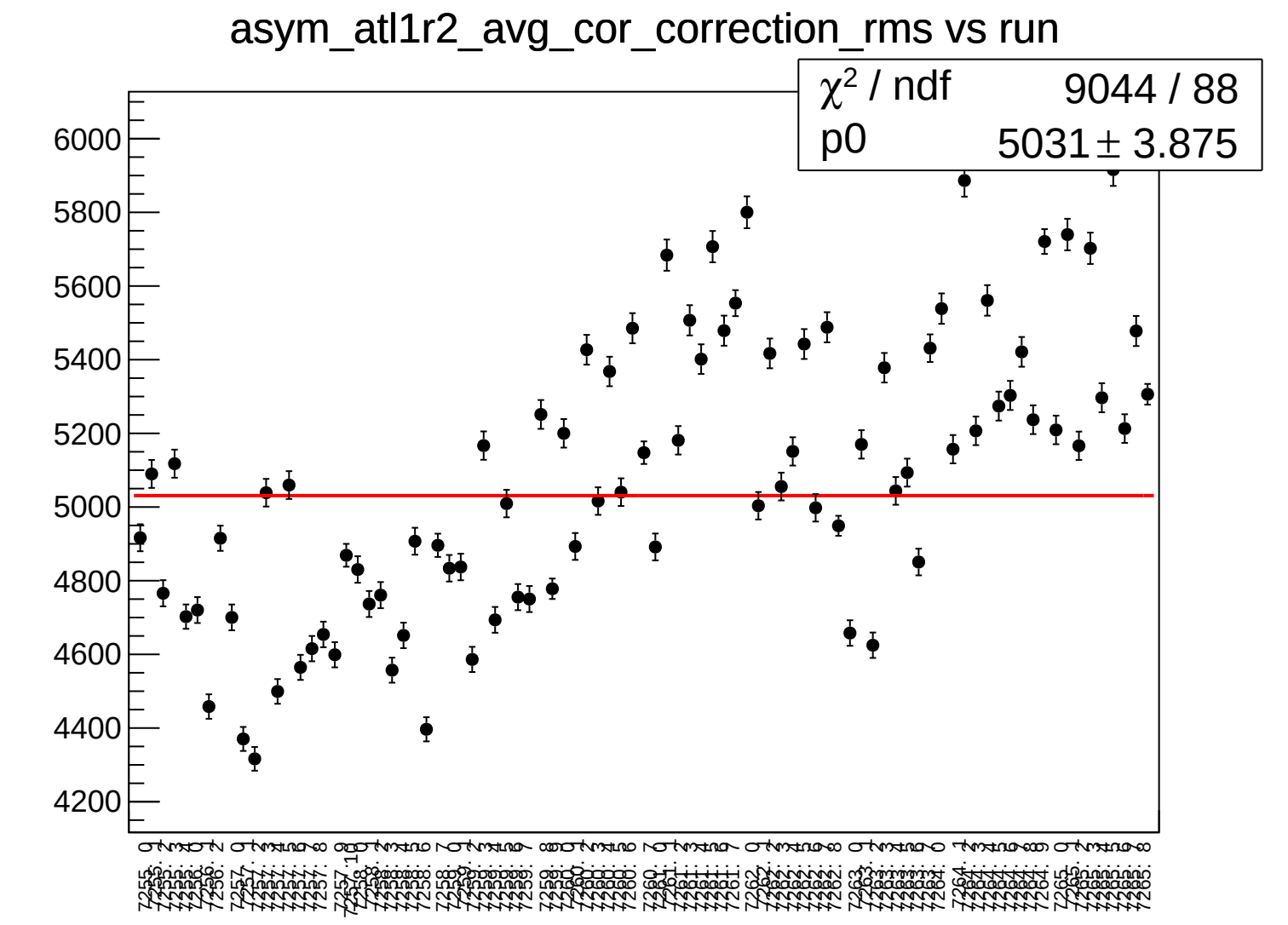

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 87.79 / 88
p0 −2862 ± 1823
pull
Entries 89
Mean −216.3
Std Dev 0

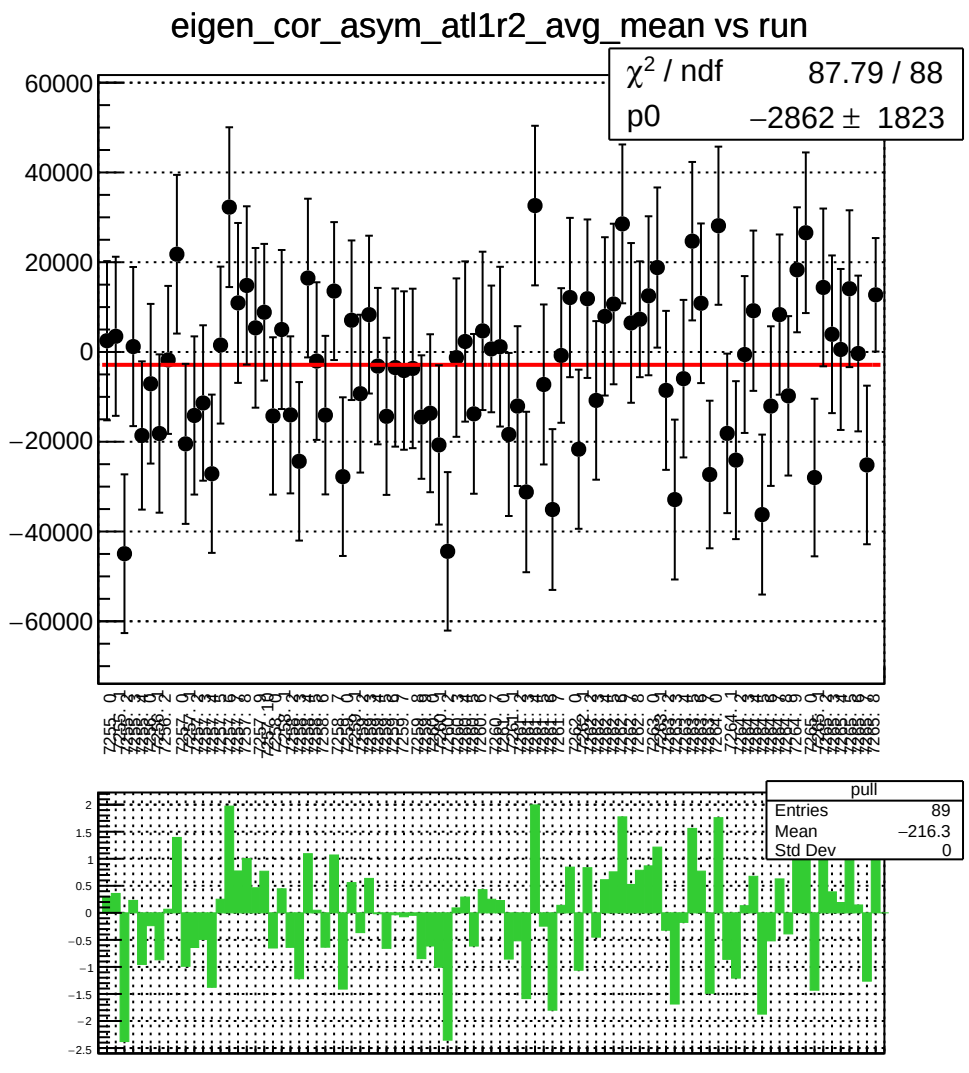

pull1D
Entries 89
Mean −0.01285
Std Dev 0.9931

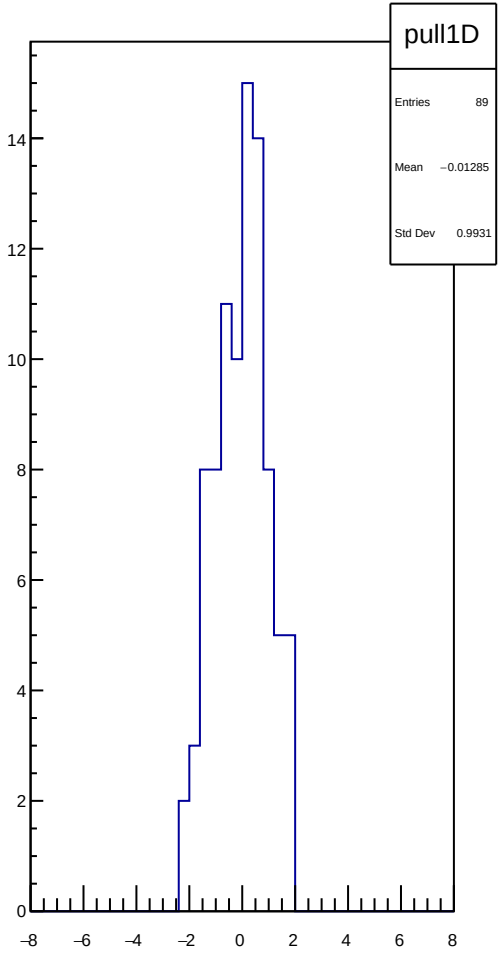

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 95.41 / 88
p0 1678 ± 1.289
1740
1720
1700
1680
1660
1640
1620

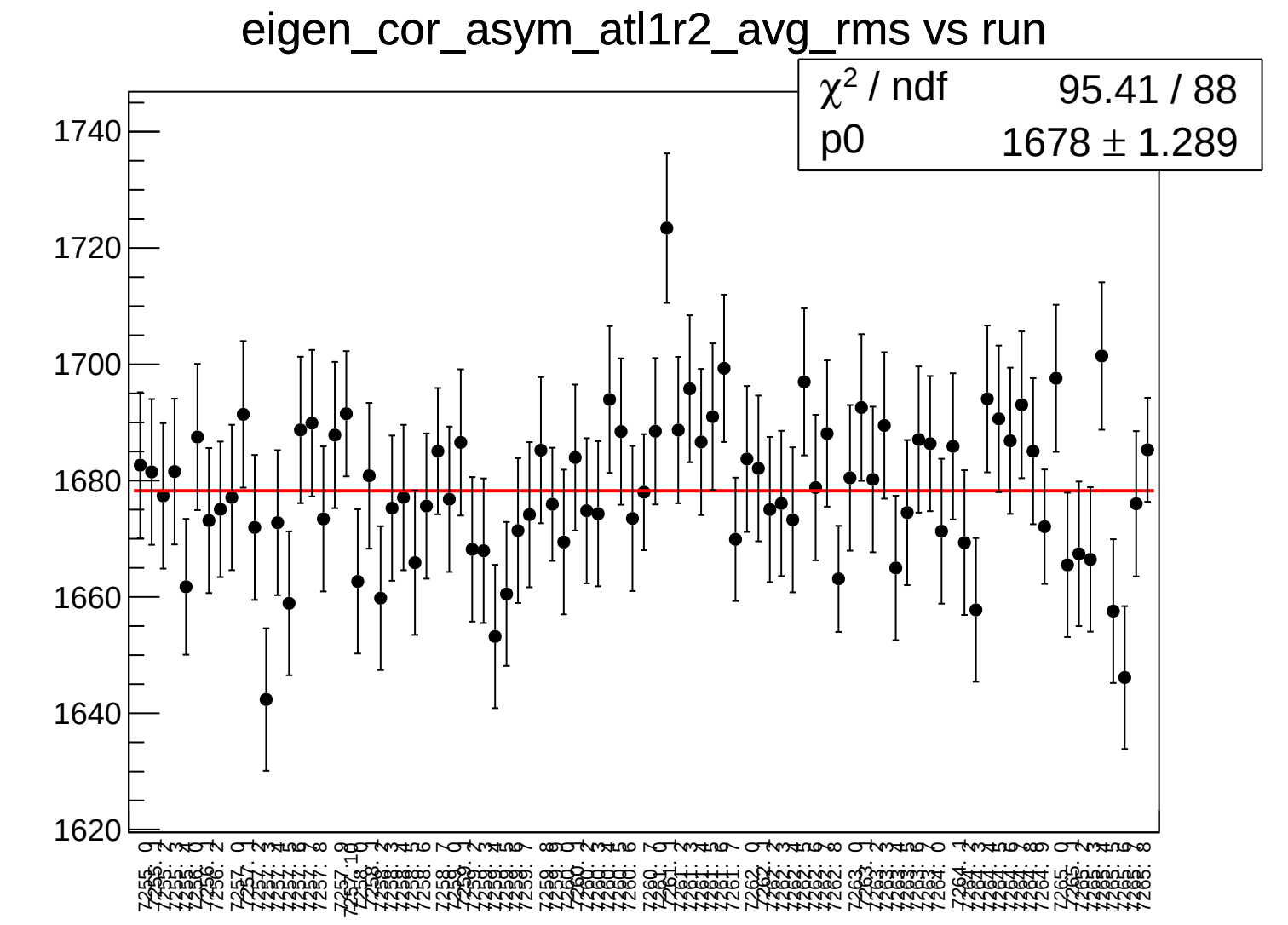

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 88.35 / 88
p0 4604 ± 5480
pull
Entries 89
Mean 899
Std Dev 0

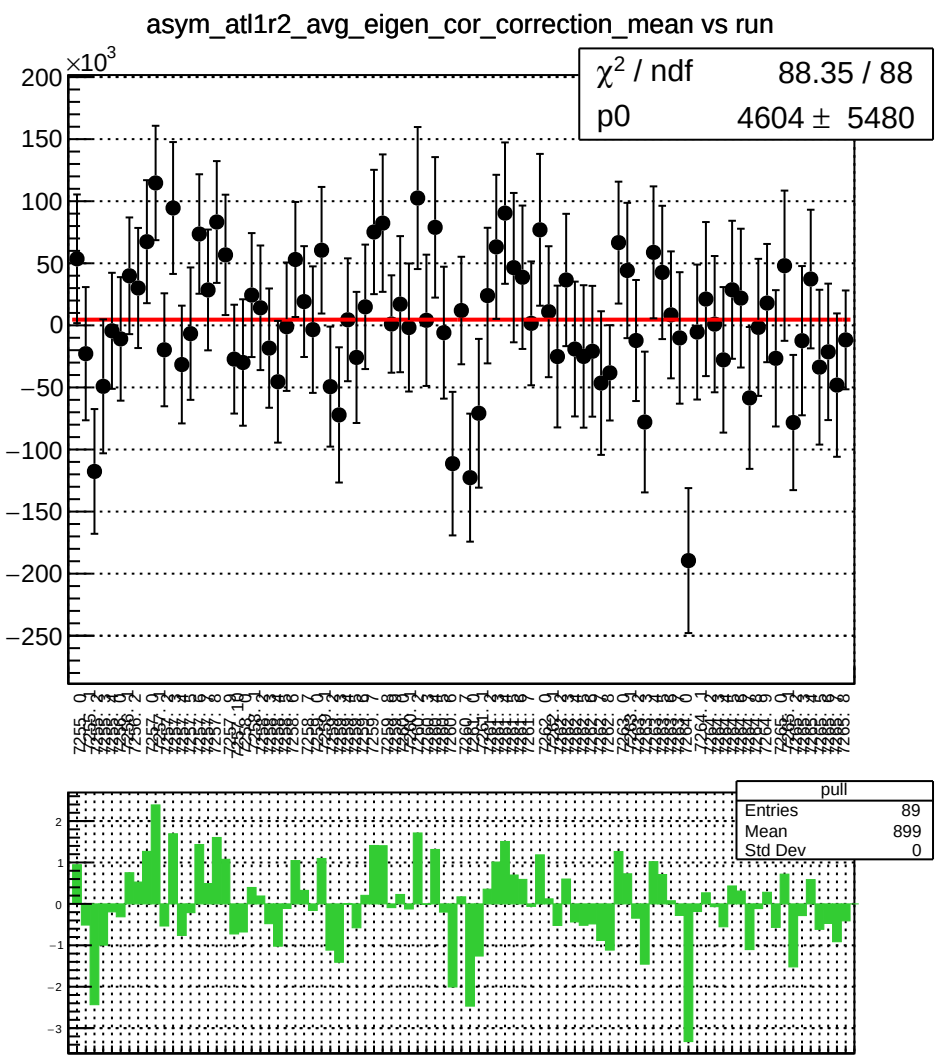

pull1D
Entries 89
Mean −0.005197
Std Dev 0.9964

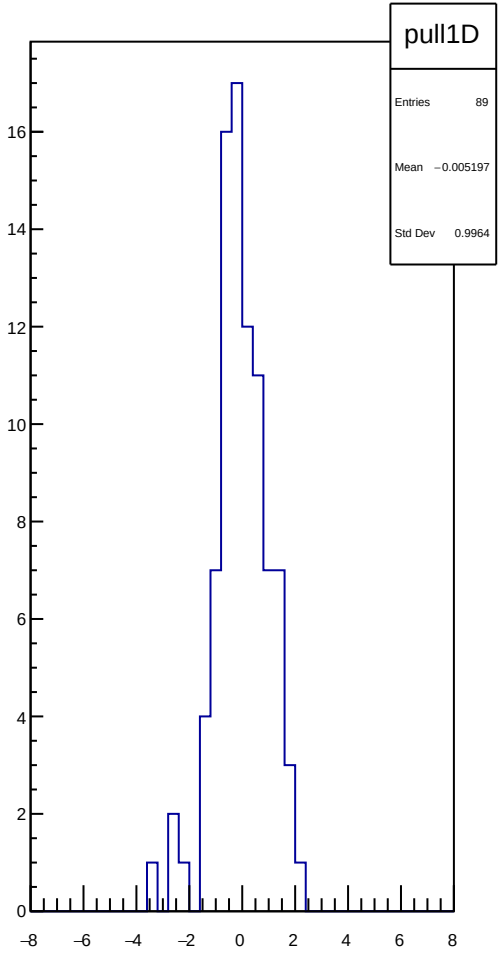

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 9044 / 88
p0 5031 ± 3.875
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

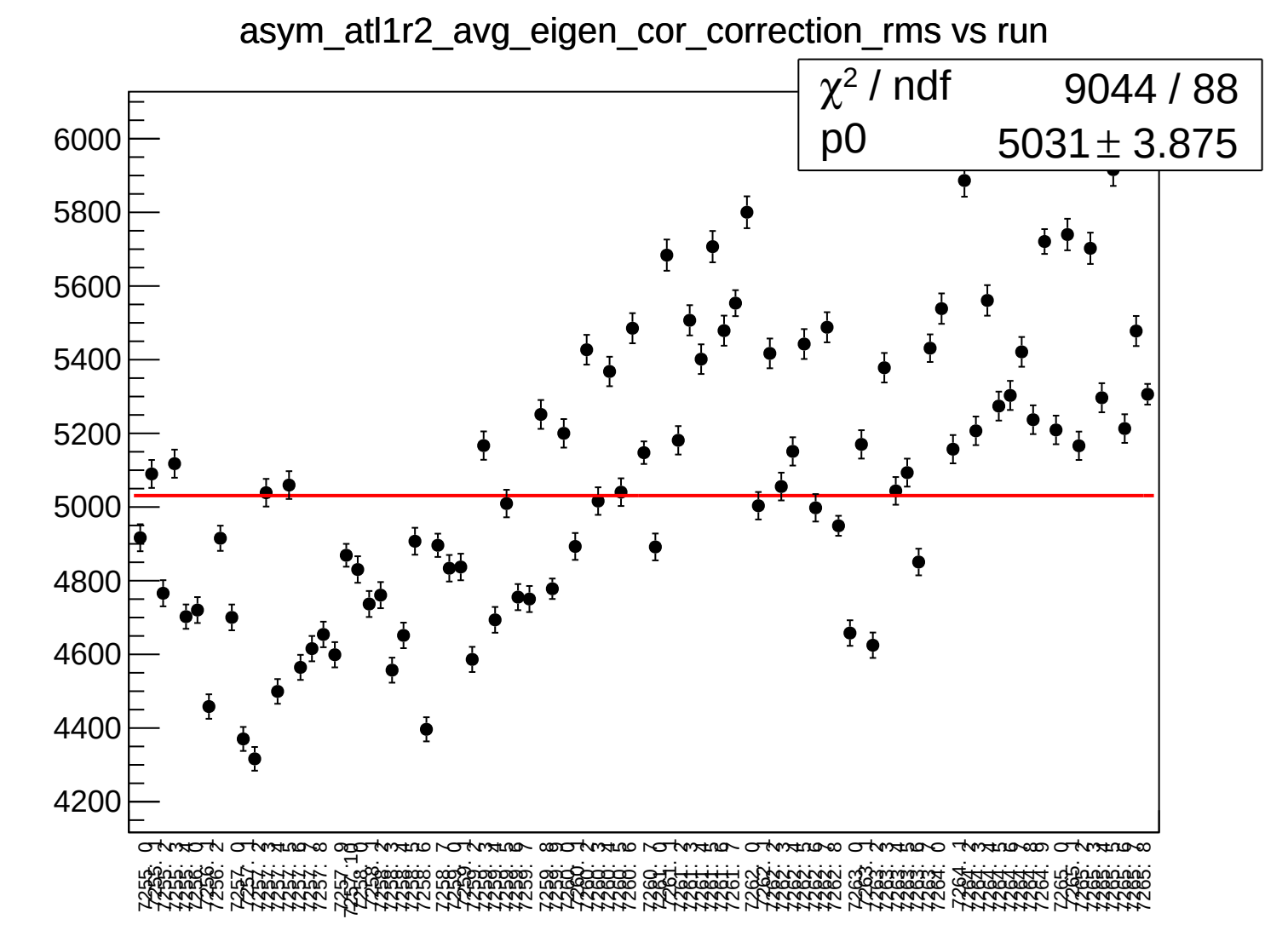

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 87.79 / 88
p0 −2862 ± 1823
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −216.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

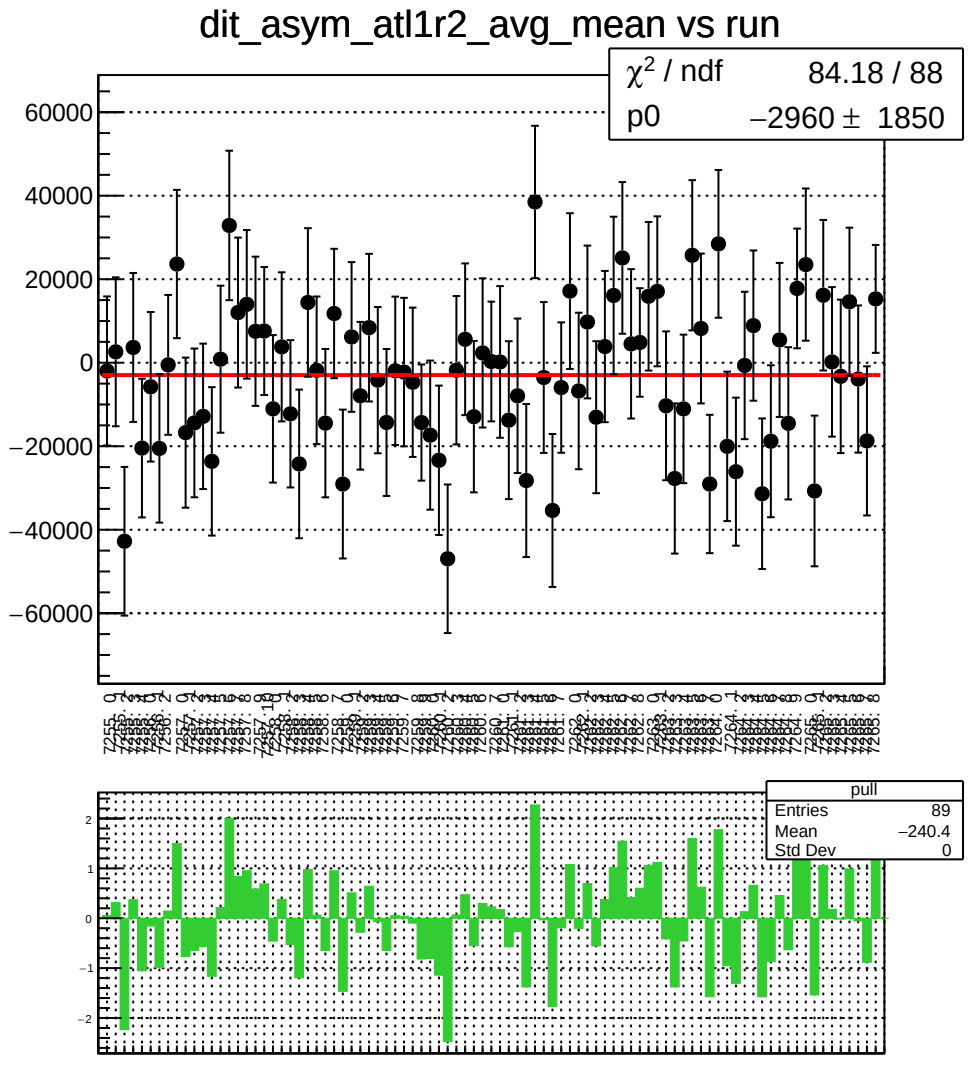

pull1D
Entries 89
Mean −0.01285
Std Dev 0.9931
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

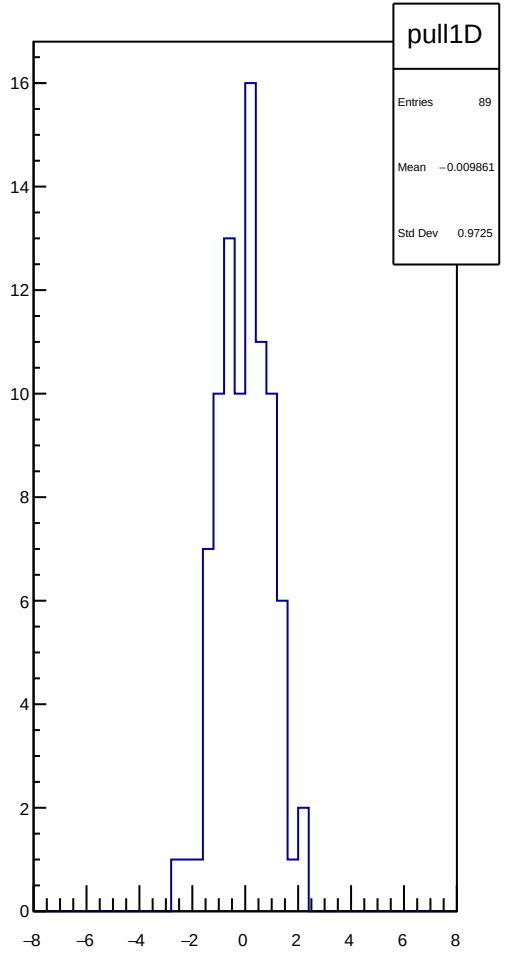

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 95.41 / 88
p0 1678 ± 1.289
1740
1720
1700
1680
1660
1640
1620

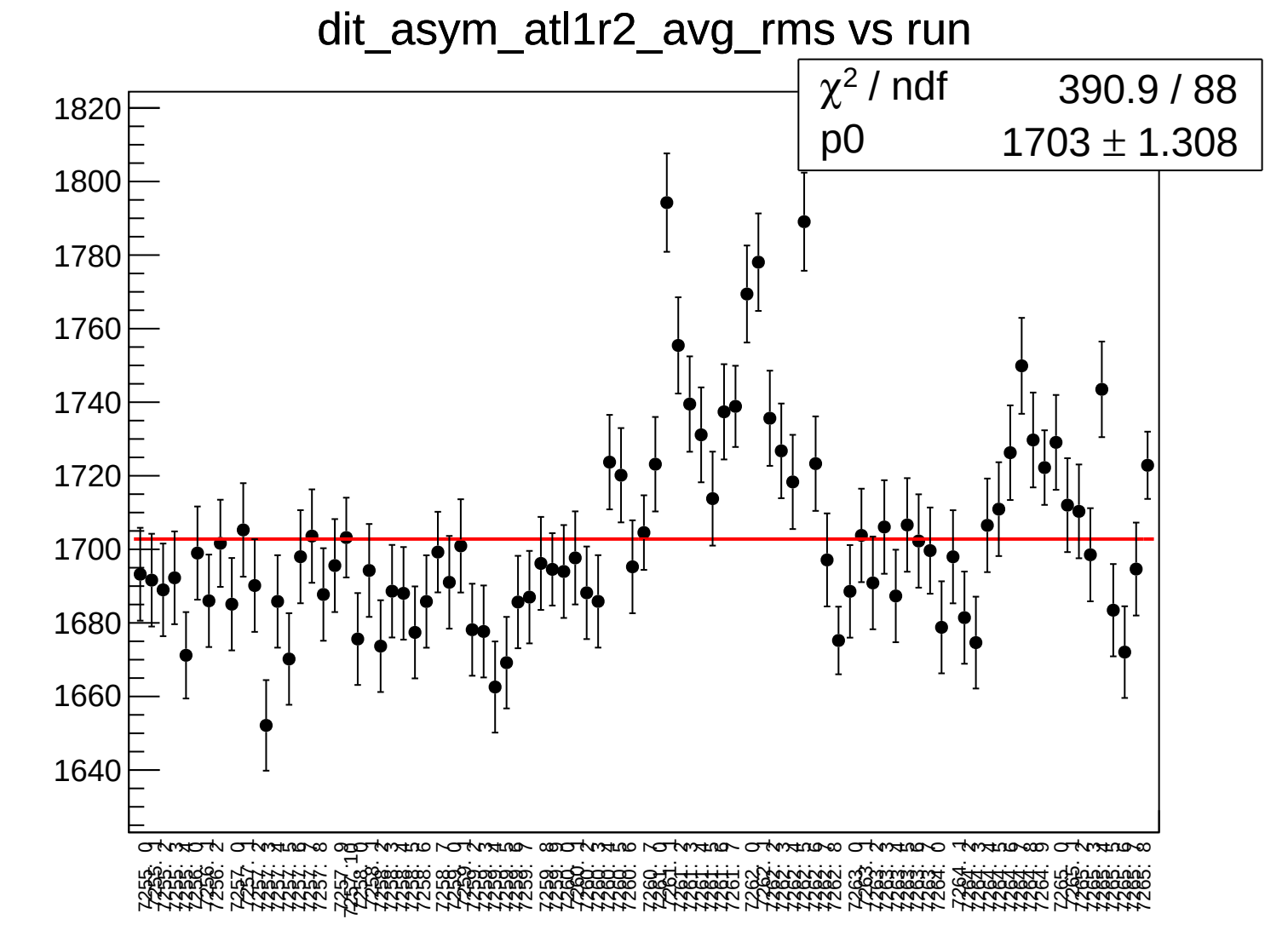

asym_atl1r2_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.35 / 88
p0 4604 ± 5480
pull
Entries 89
Mean 899
Std Dev 0

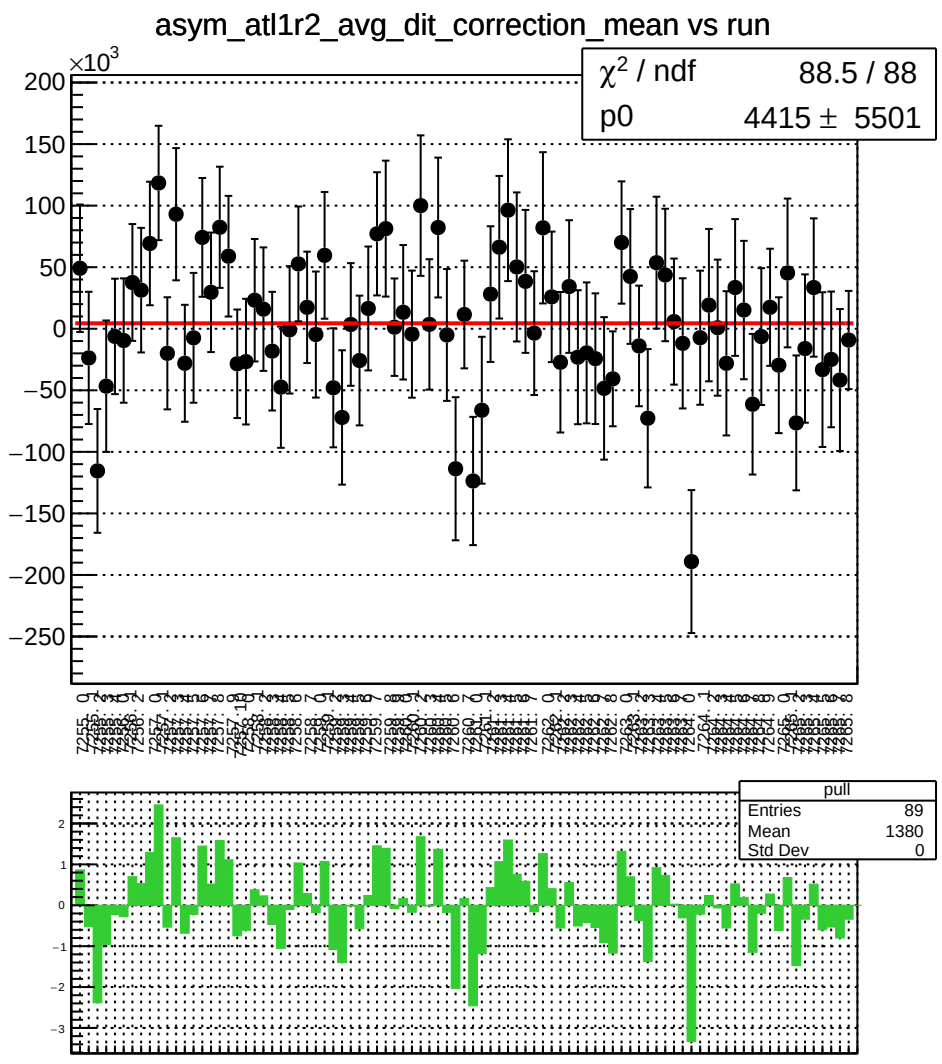

pull1D
Entries 89
Mean −0.005197
Std Dev 0.9964

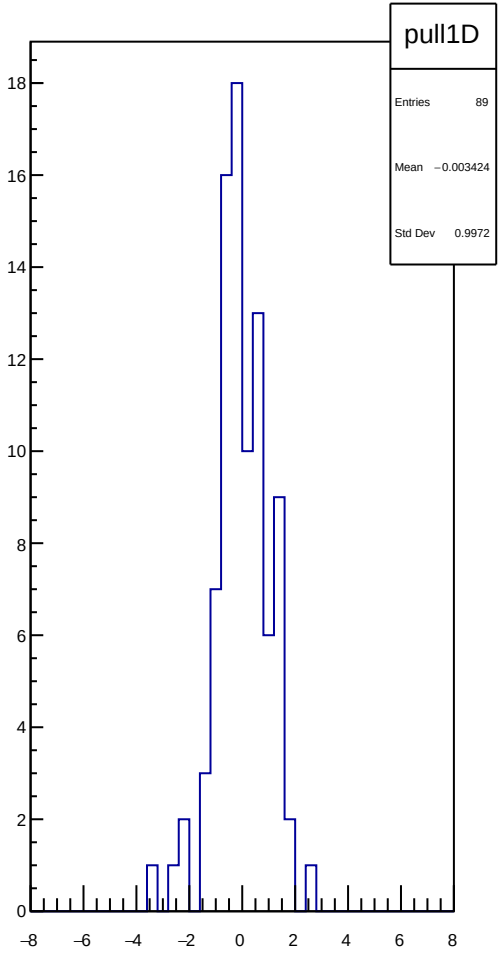

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 9044 / 88
p0 5031 ± 3.875
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

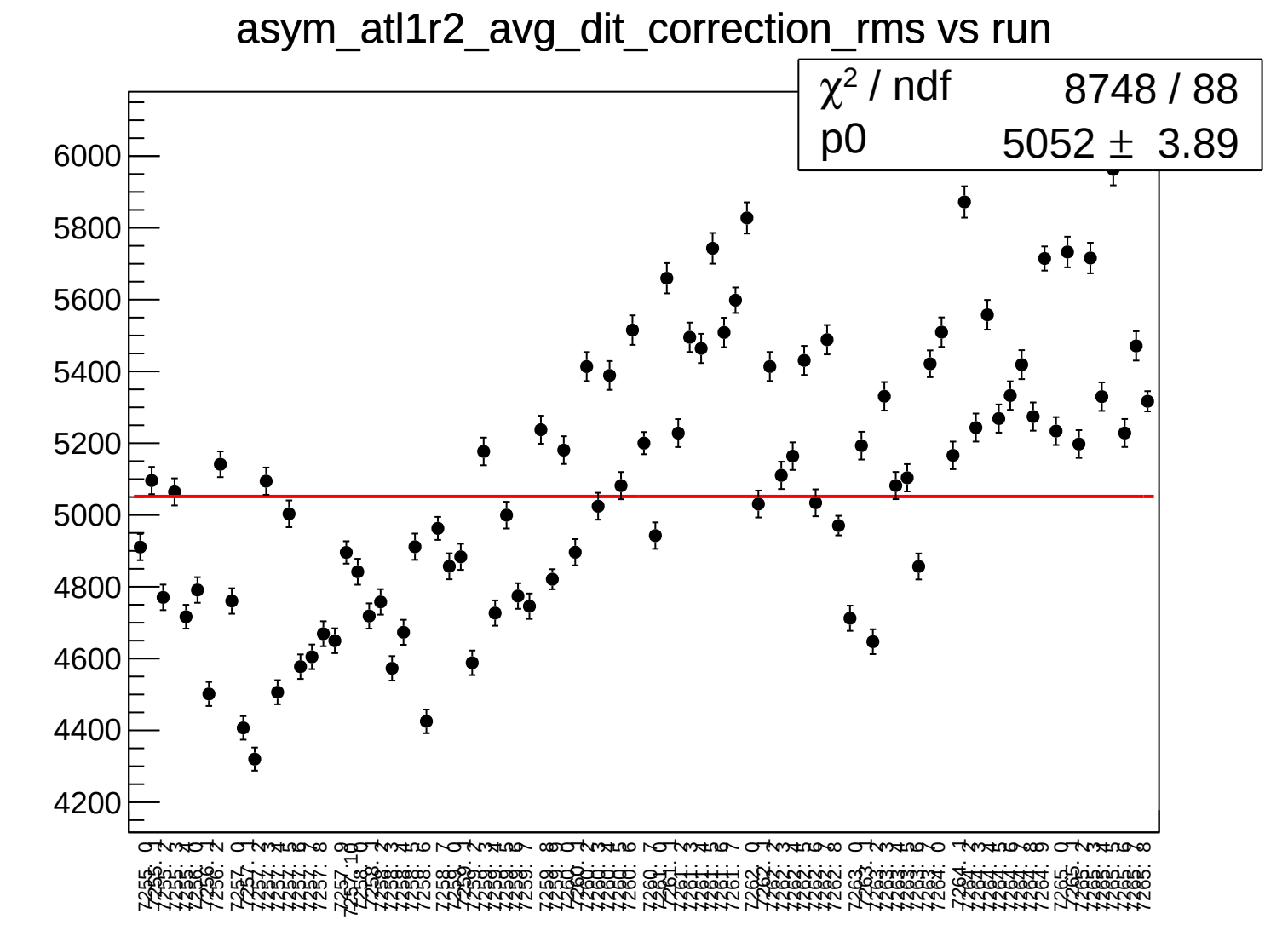

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 84.18 / 88
p0 −2960 ± 1850
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −240.4
Std Dev 0
2
1
0
−1
−2

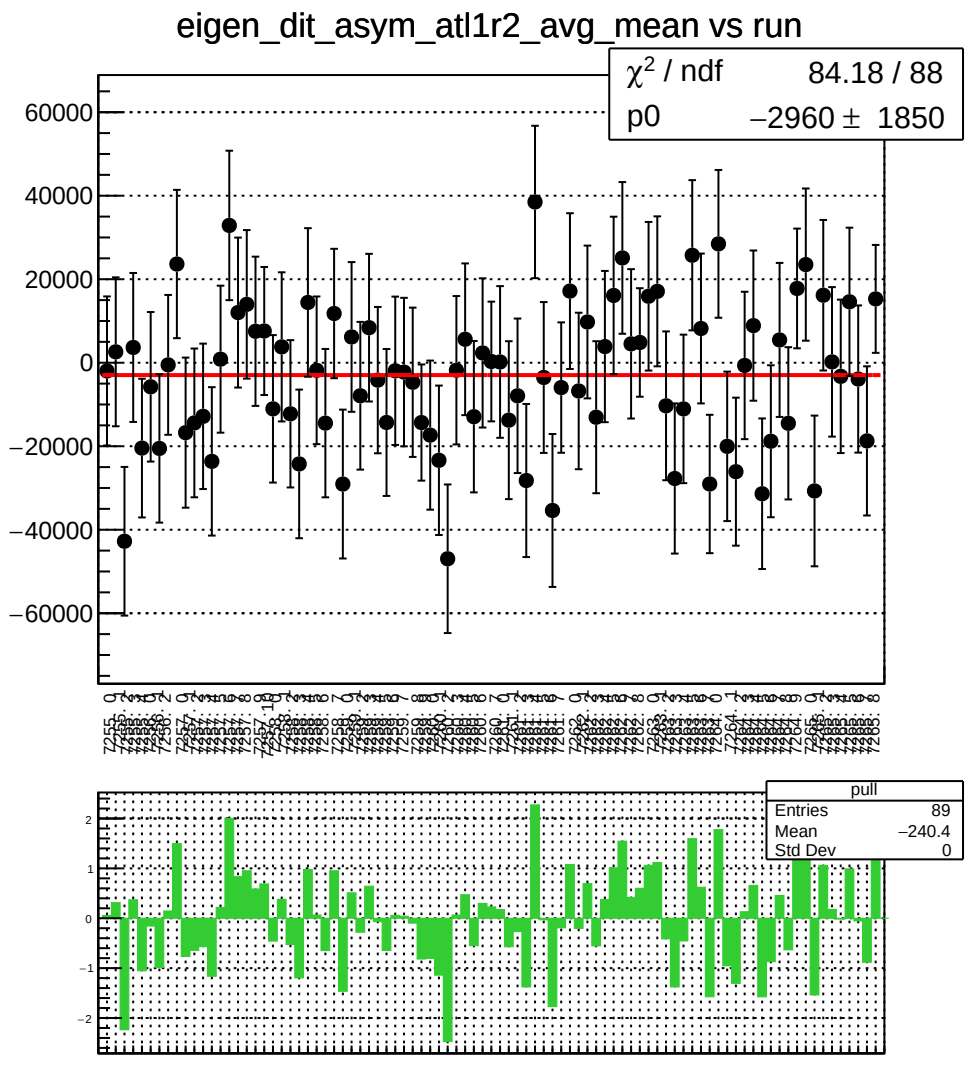

pull1D
Entries 89
Mean −0.009861
Std Dev 0.9725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

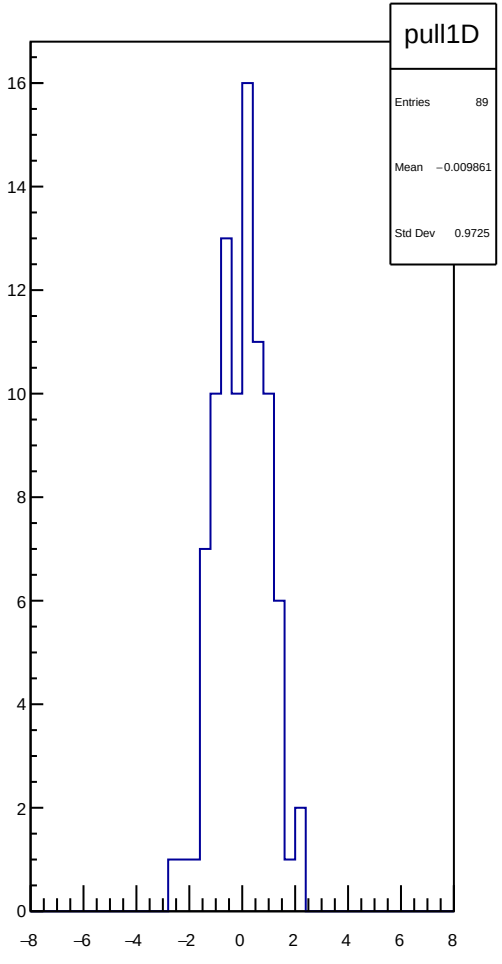

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 390.9 / 88
p0 1703 ± 1.308
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

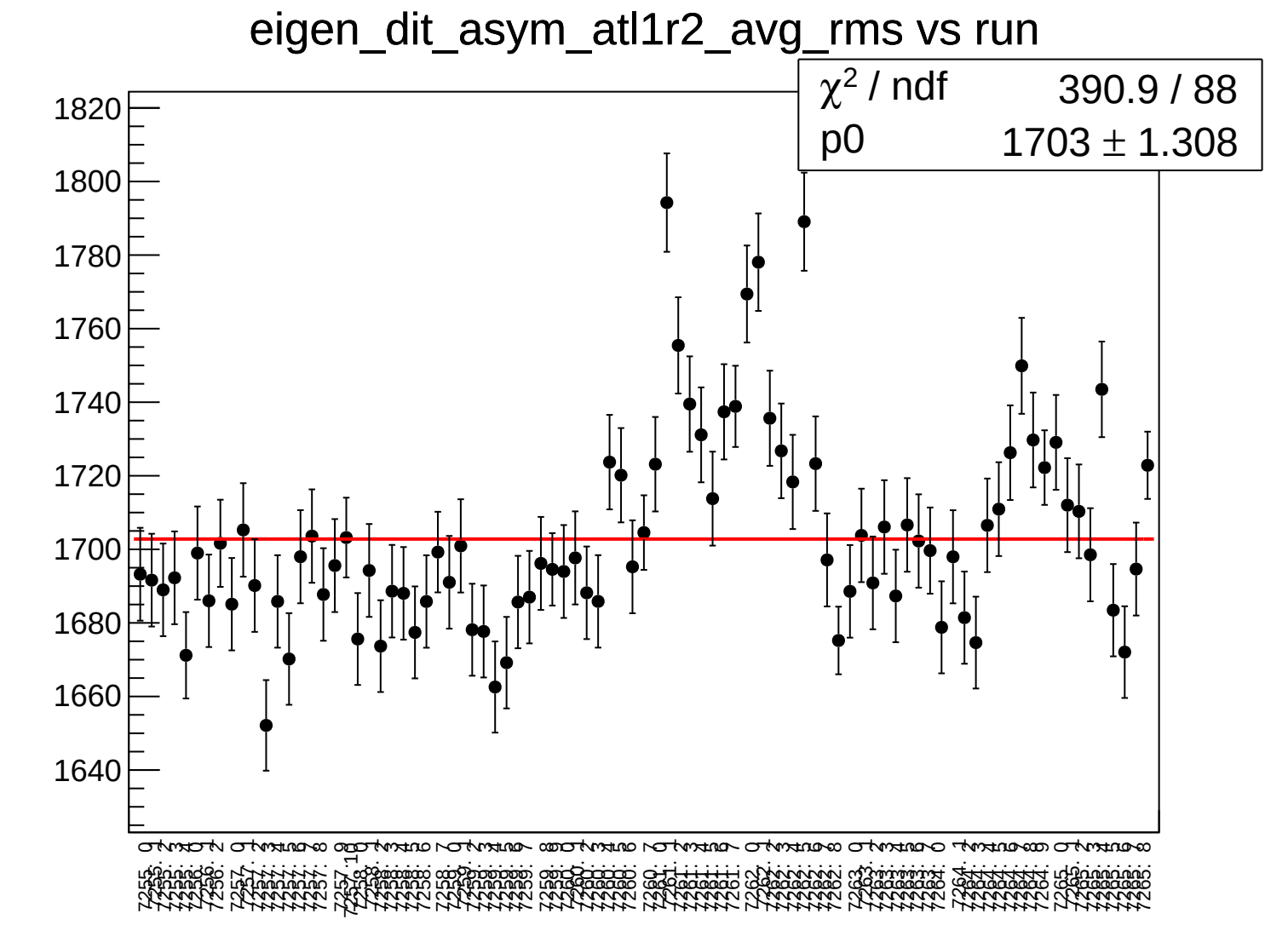

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 88.5 / 88
p0 4415 ± 5501
pull
Entries 89
Mean 1380
Std Dev 0

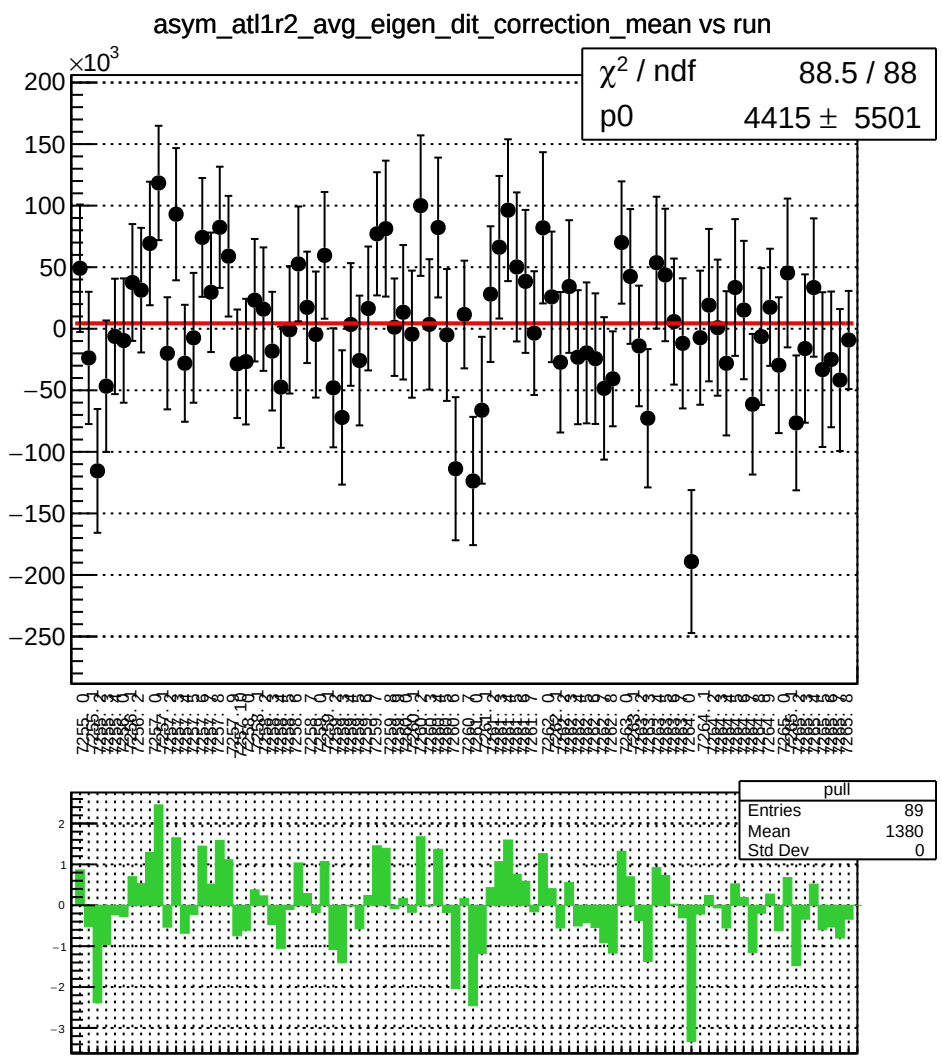

pull1D
Entries 89
Mean −0.003424
Std Dev 0.9972

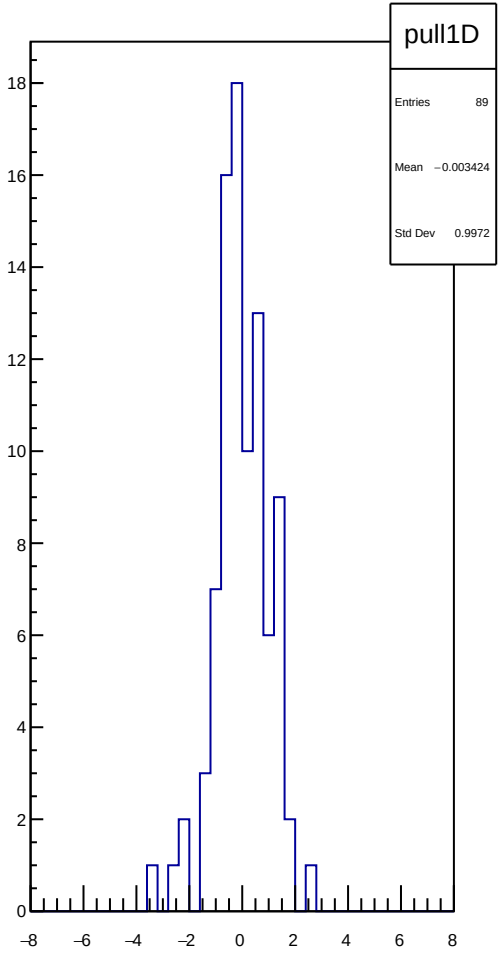

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 8748 / 88
p0 5052 ± 3.89
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

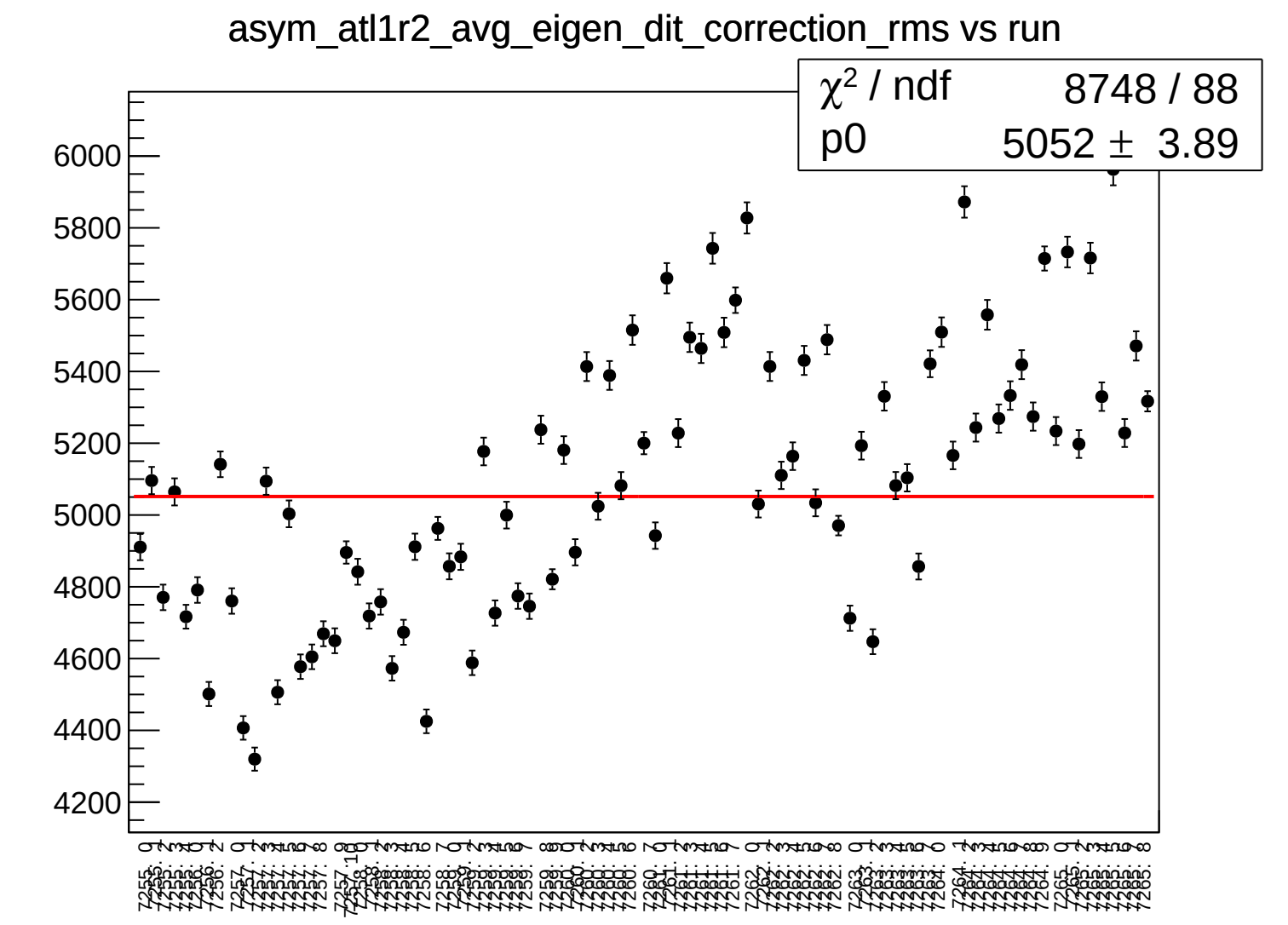

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 84.18 / 88
p0 −2960 ± 1850
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −240.4
Std Dev 0
2
1
0
−1
−2

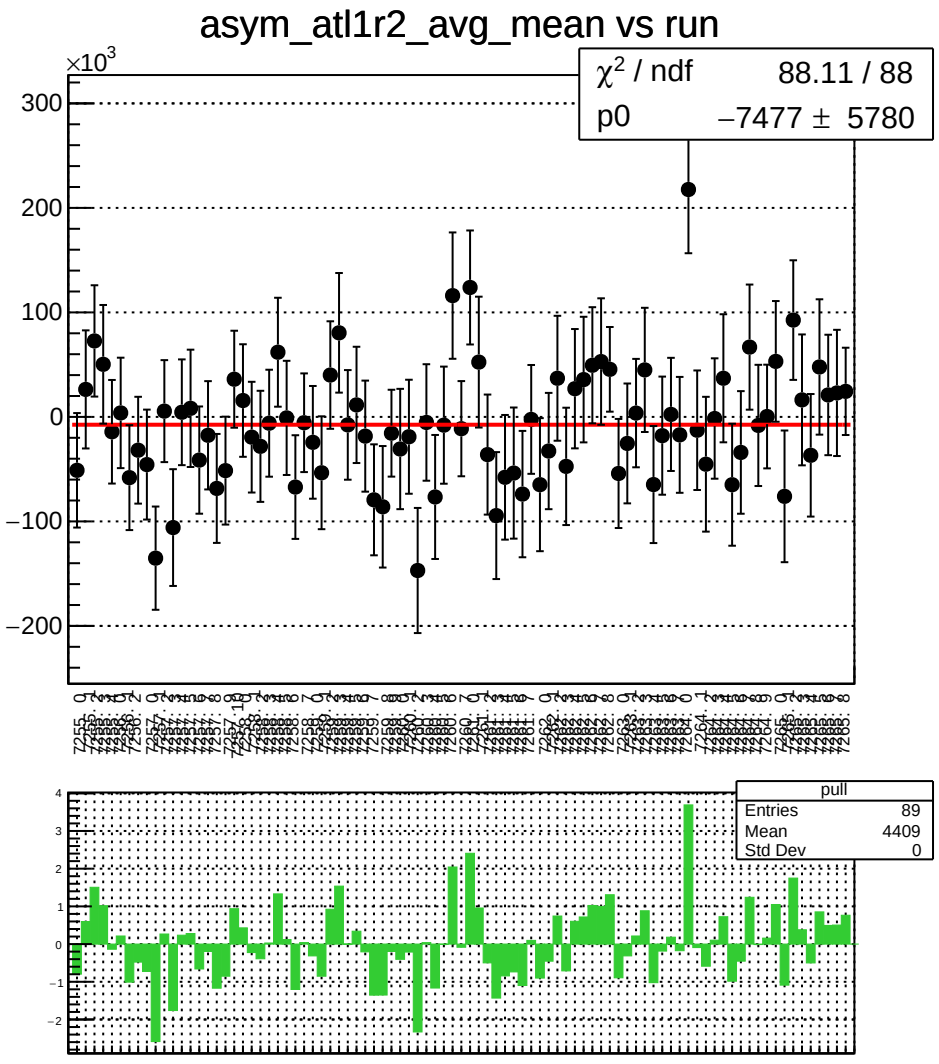

pull1D
Entries 89
Mean −0.009861
Std Dev 0.9725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

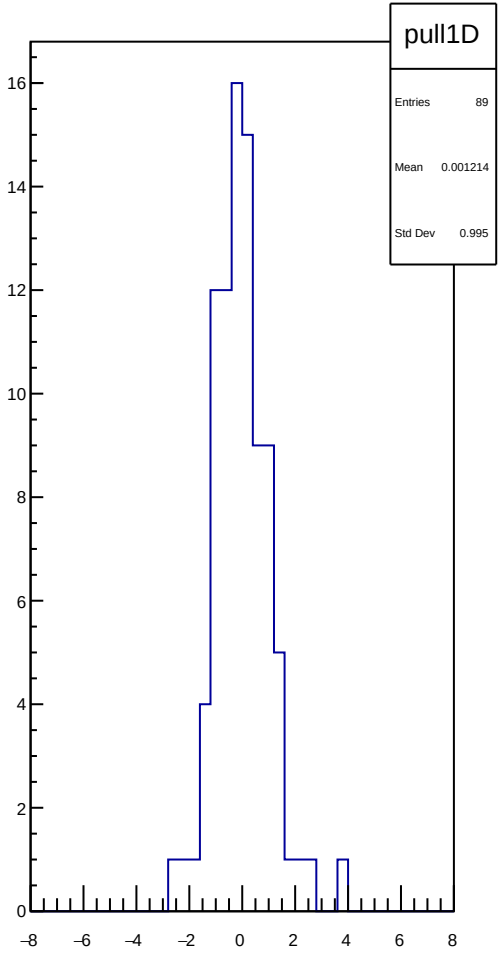

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 390.9 / 88
p0 1703 ± 1.308
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

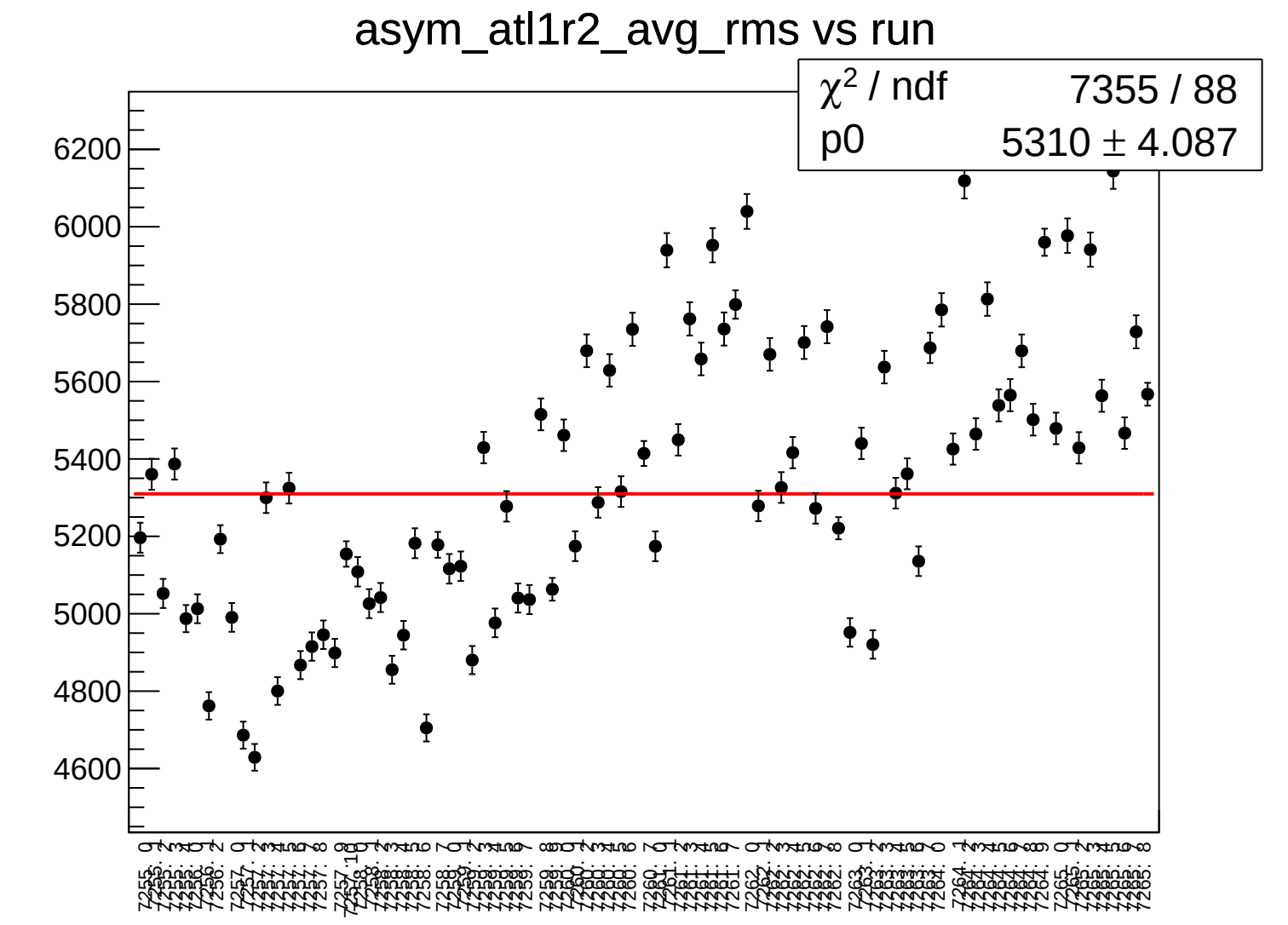

asym_atl1r2_avg_eigen_dit_correction_mean vs run
χ^2 / ndf 88.5 / 88
p0 4415 ± 5501
×10^3
pull
Entries 89
Mean 1380
Std Dev 0

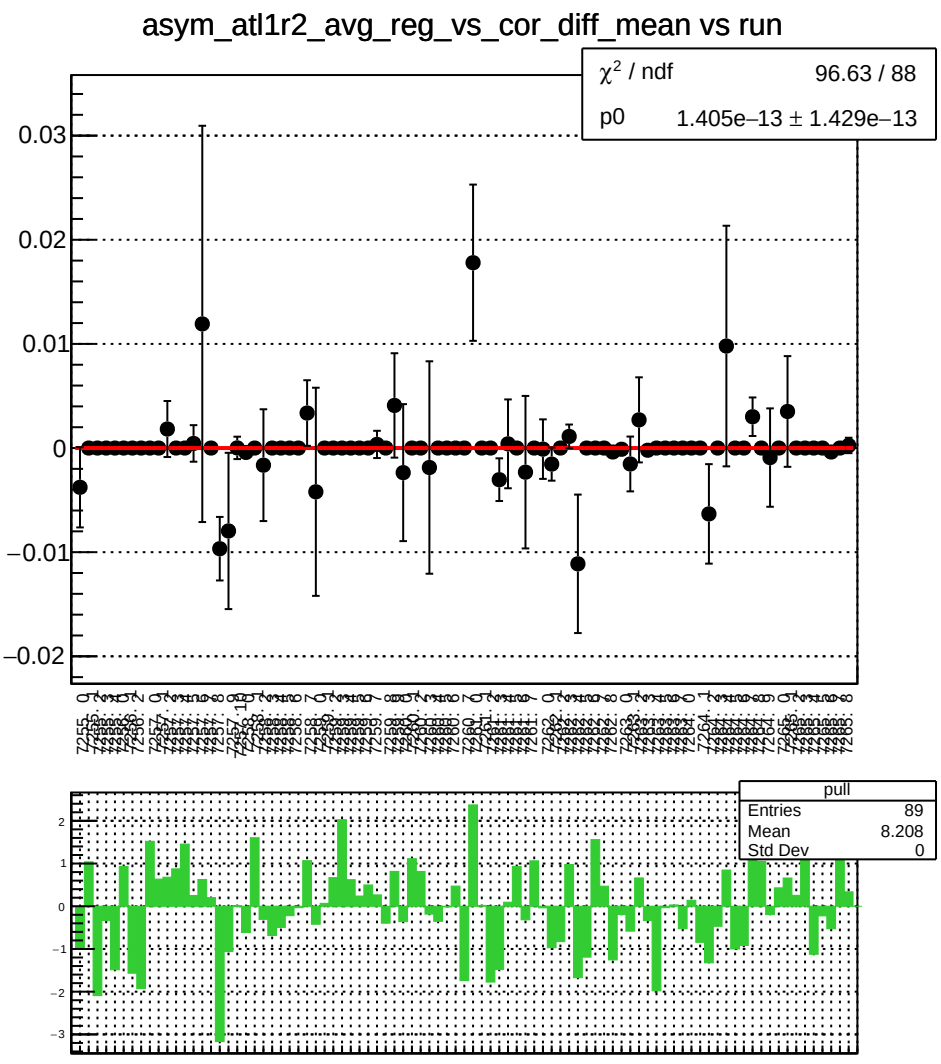

pull1D
Entries 89
Mean −0.003424
Std Dev 0.9972

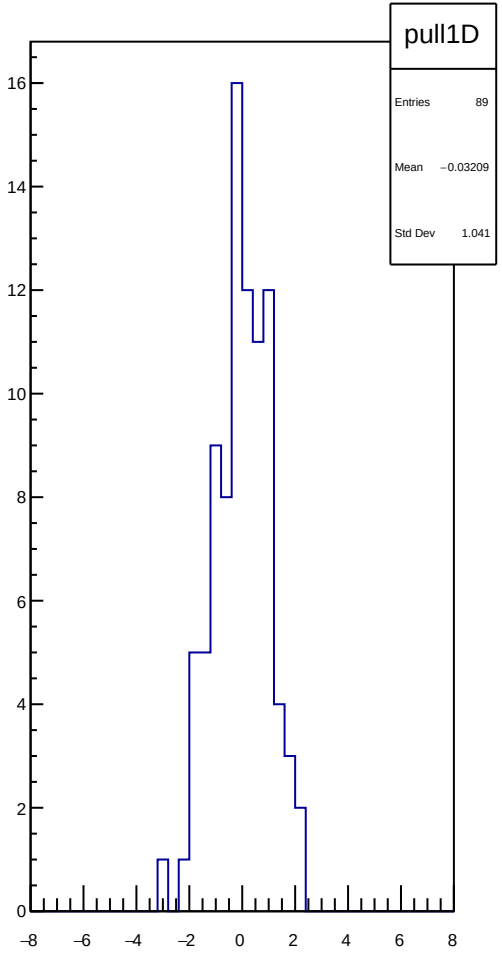

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 8748 / 88
p0 5052 ± 3.89
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

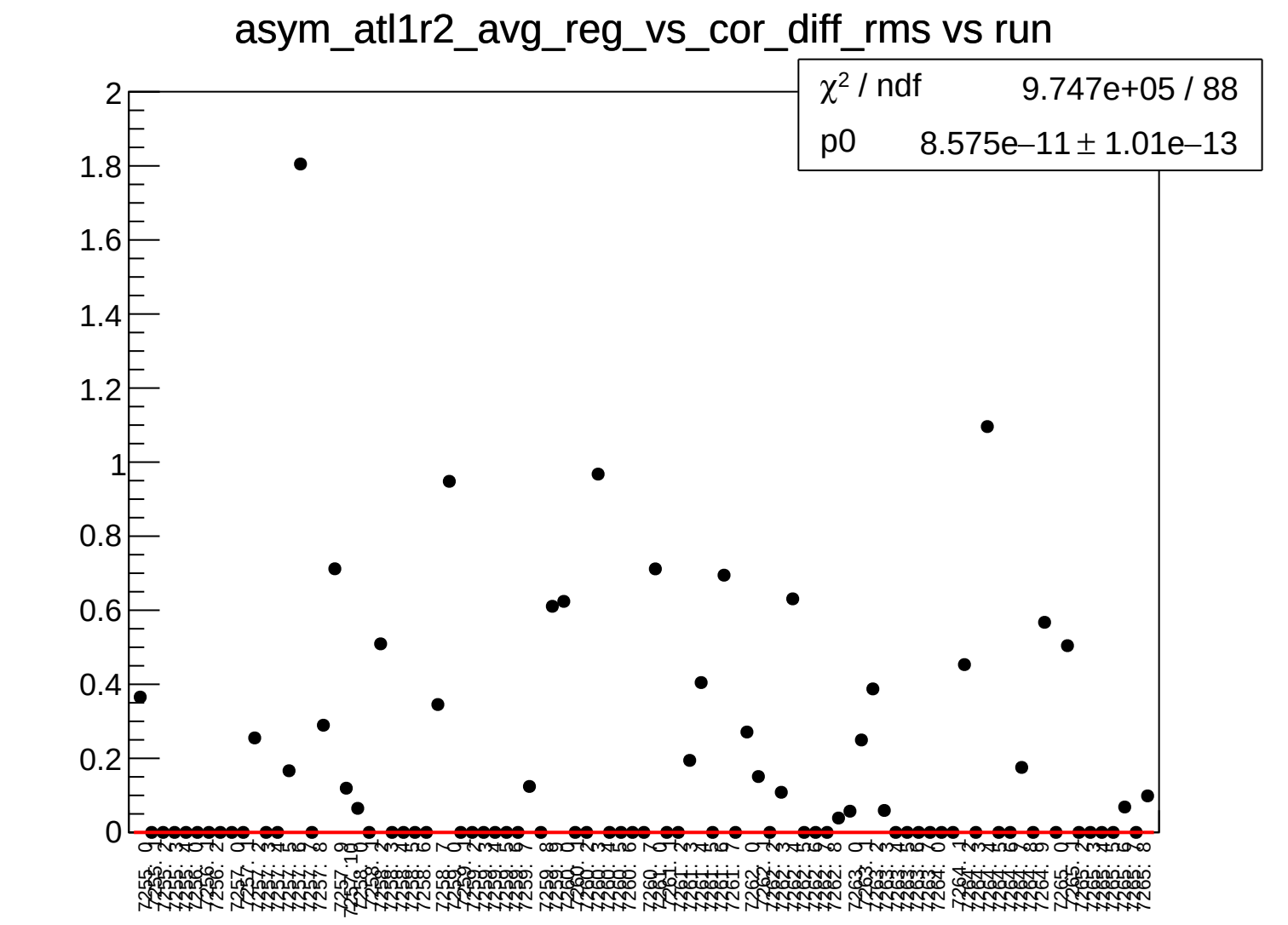

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 88.11 / 88
p0 −7477 ± 5780
300
200
100
0
−100
−200
pull
Entries 89
Mean 4409
Std Dev 0
4
3
2
1
0
−1
−2

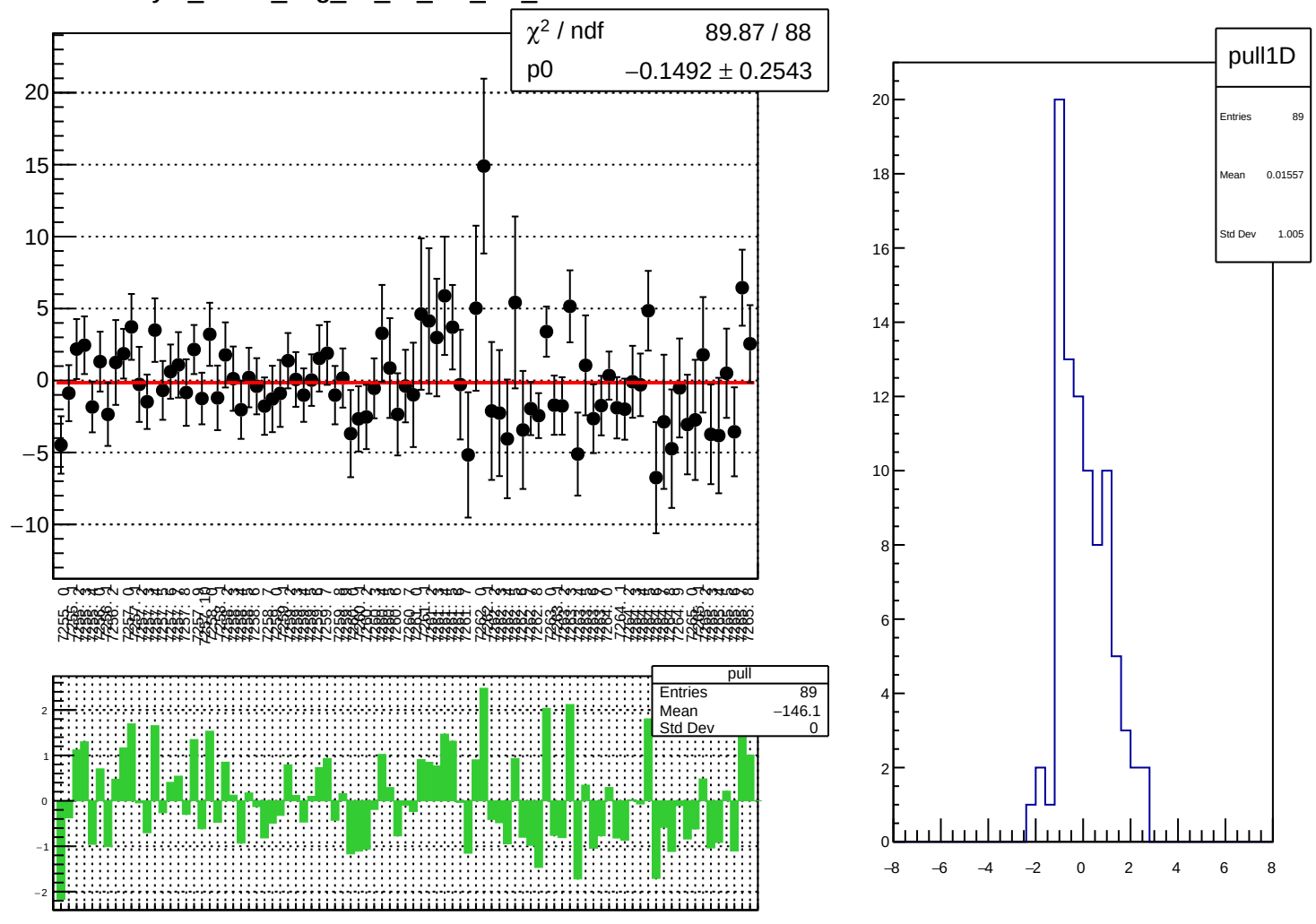

pull1D
Entries 89
Mean 0.001214
Std Dev 0.995
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

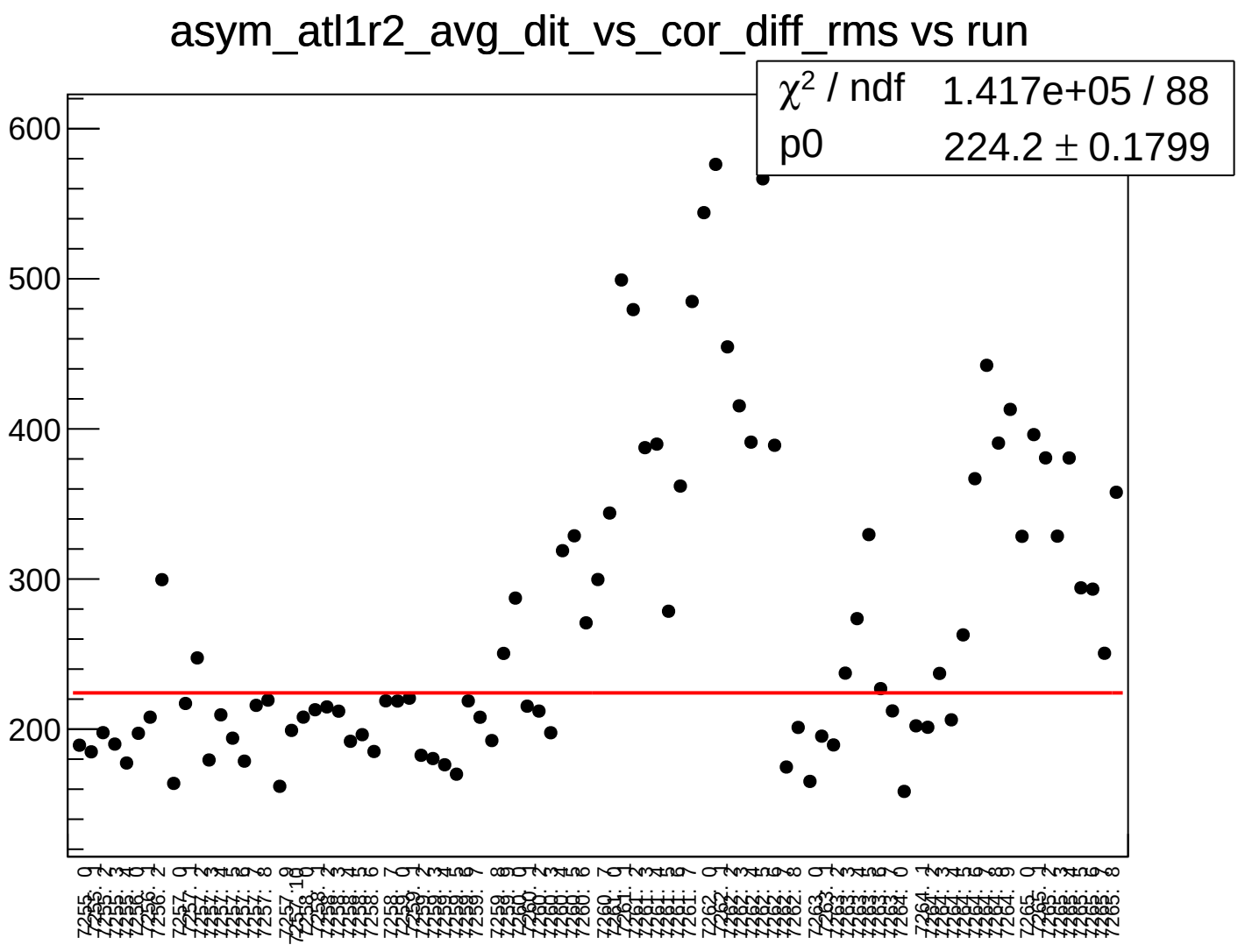

asym_atl1r2_avg_rms vs run
χ² / ndf 7355 / 88
p0 5310 ± 4.087
6200
6000
5800
5600
5400
5200
5000
4800
4600

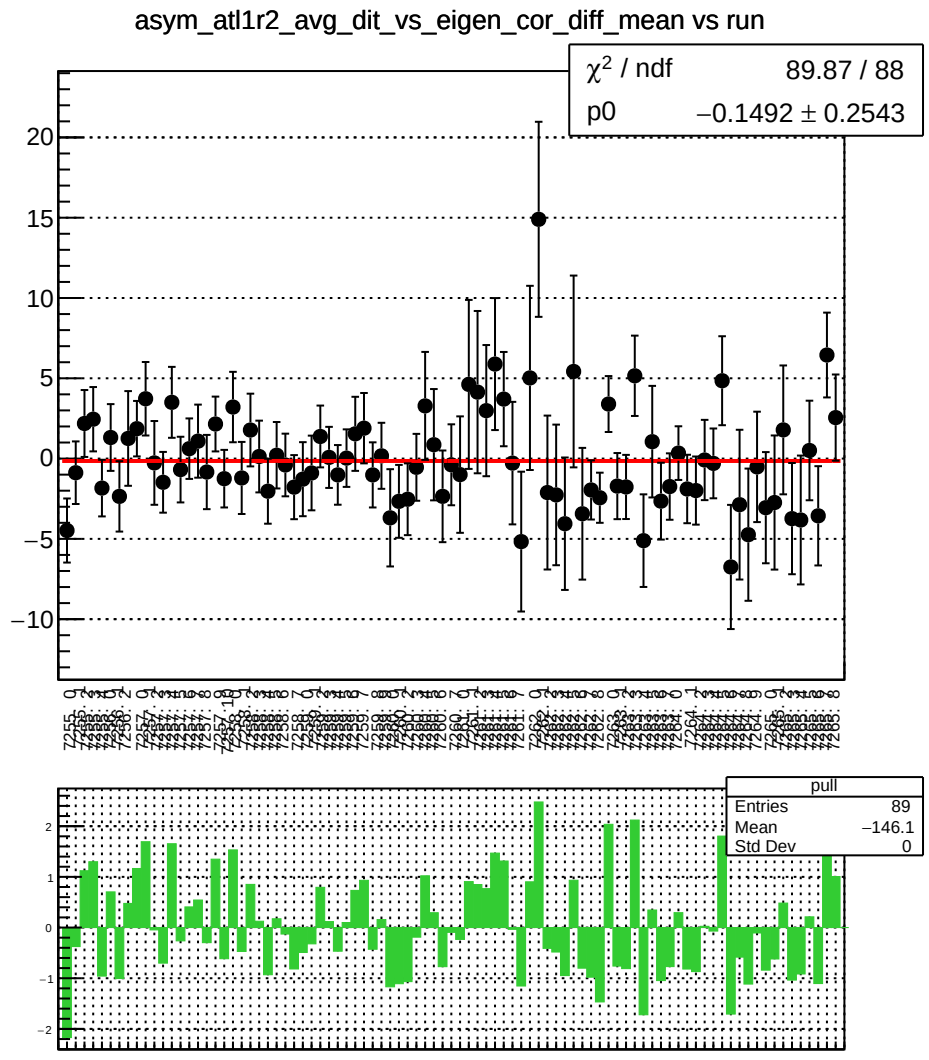

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.63 / 88
p0 1.405e−13 ± 1.429e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 8.208
Std Dev 0
2
1
0
−1
−2
−3

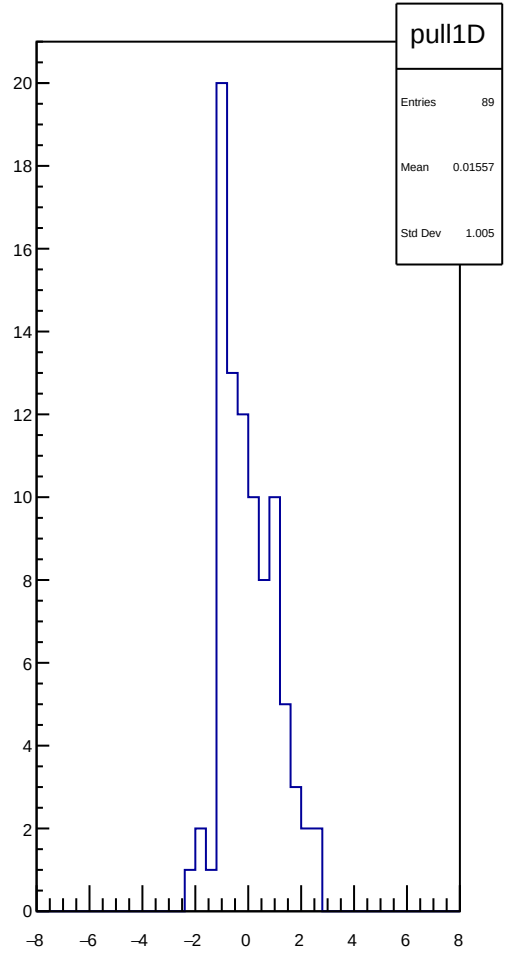

pull1D
Entries 89
Mean −0.03209
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

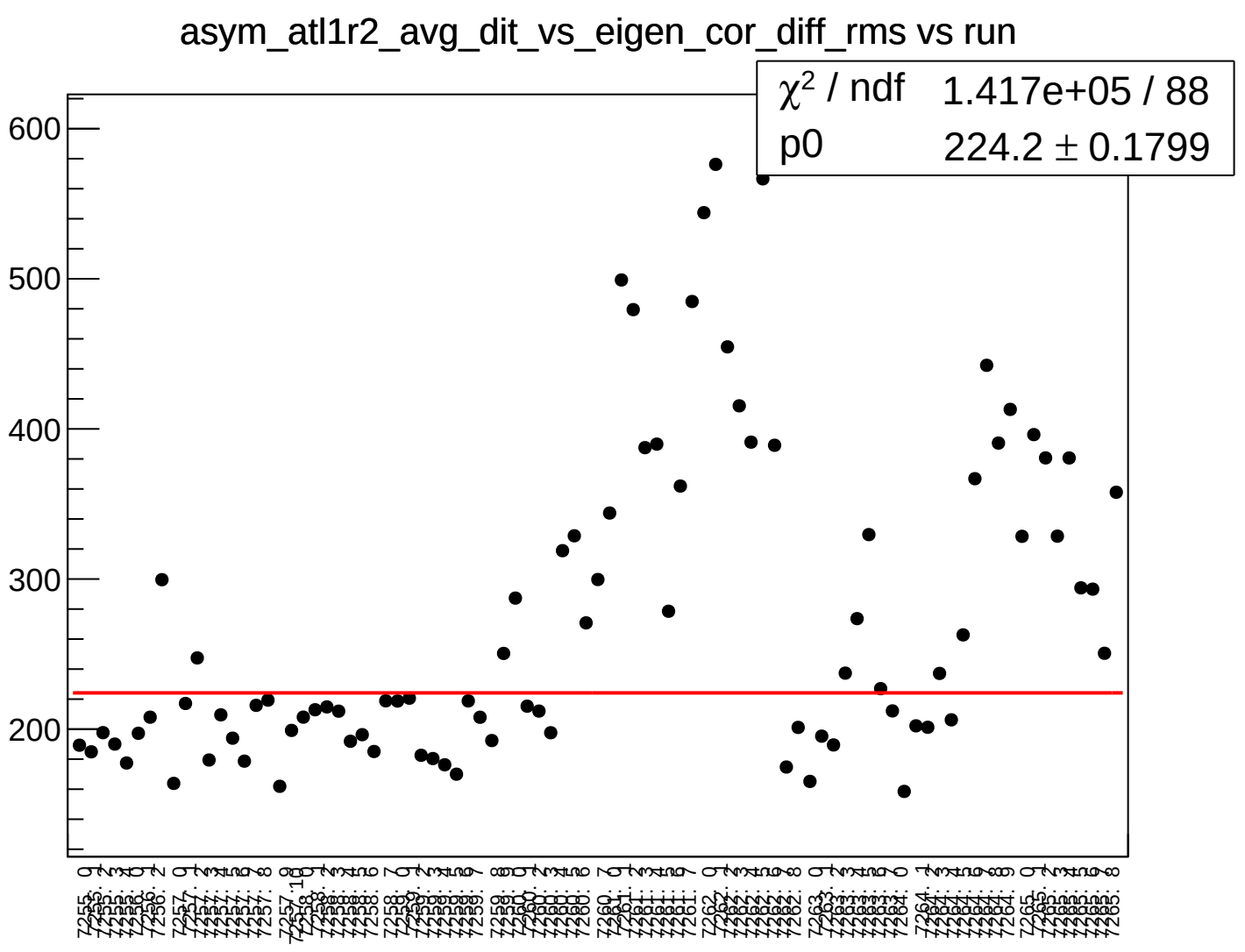

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.747e+05 / 88
p0 8.575e−11 ± 1.01e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

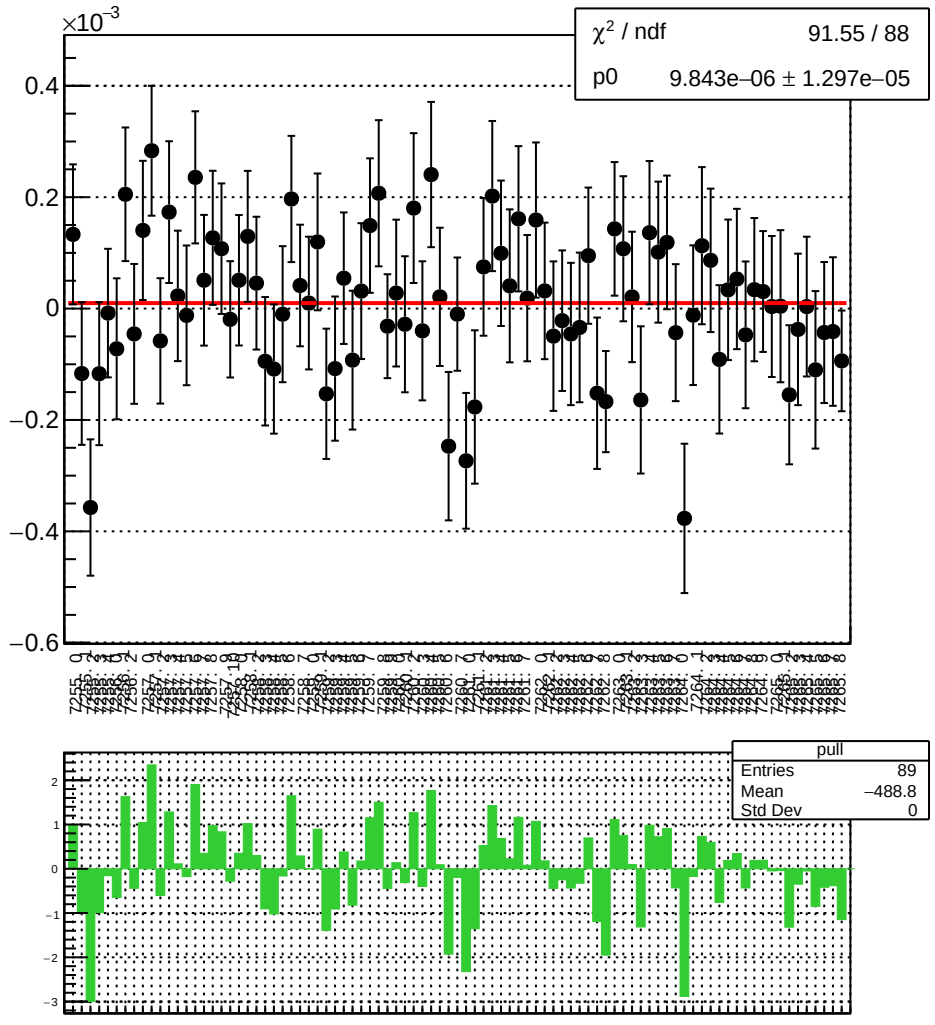

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.87 / 88
p0 −0.1492 ± 0.2543
pull
Entries 89
Mean −146.1
Std Dev 0
pull1D
Entries 89
Mean 0.01557
Std Dev 1.005

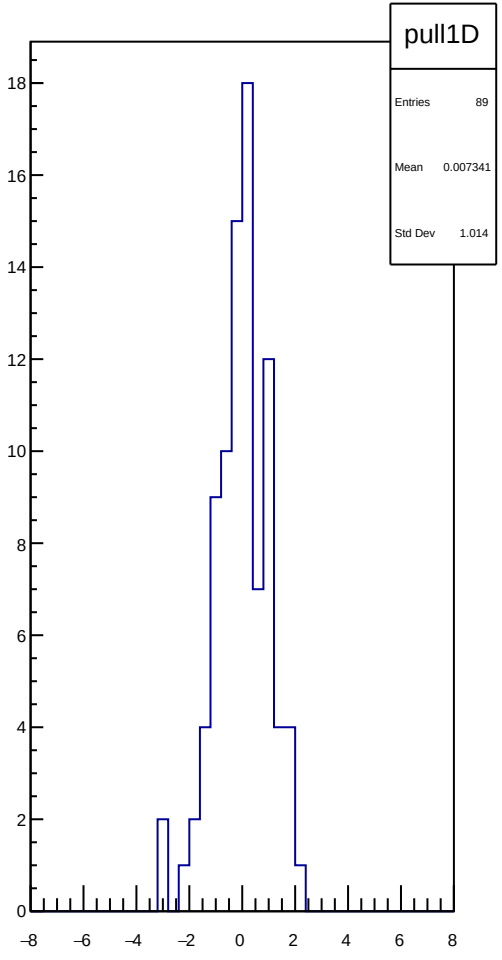

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.417e+05 / 88
p0 224.2 ± 0.1799
600
500
400
300
200

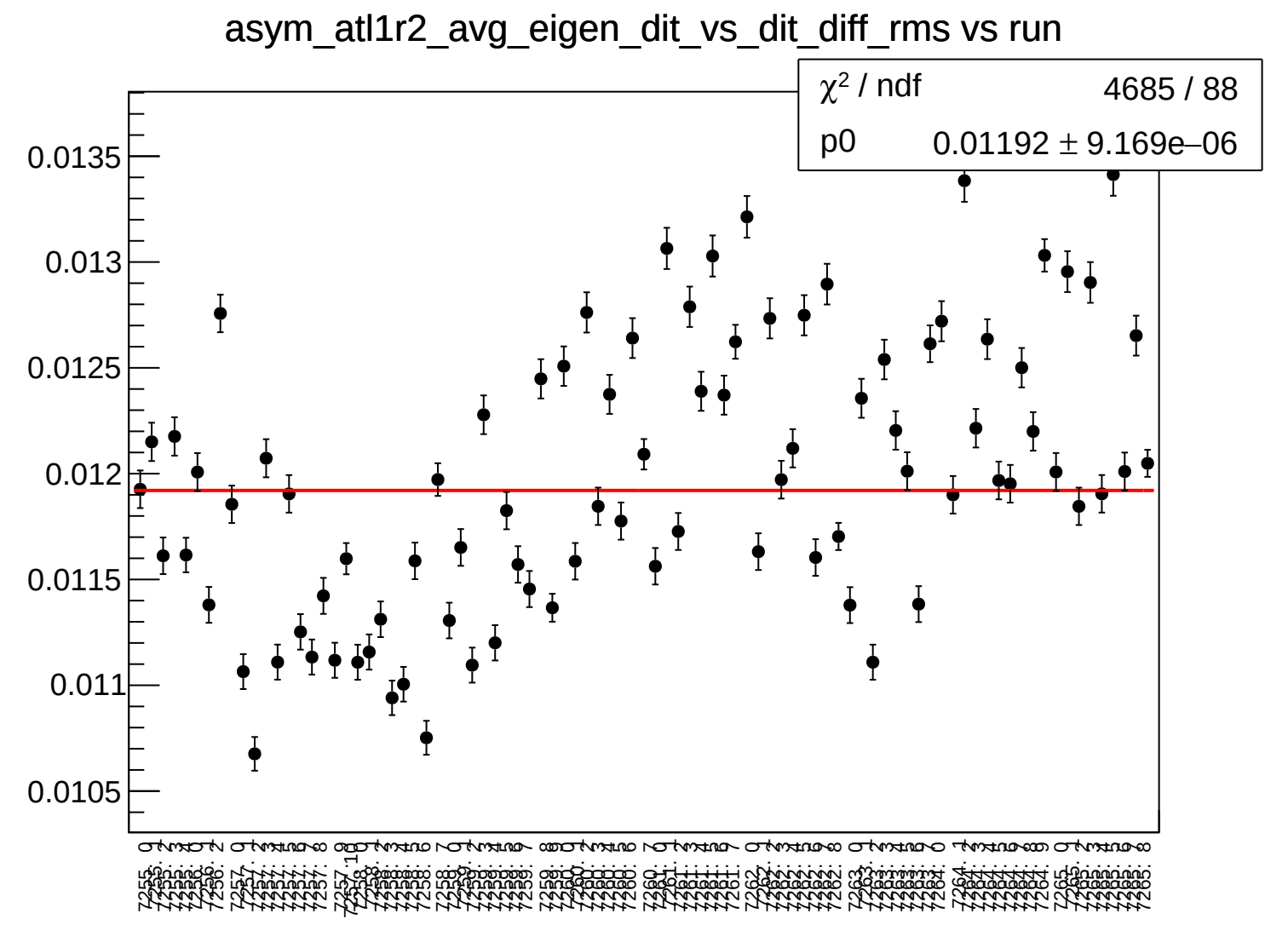

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.87 / 88
p0 −0.1492 ± 0.2543
pull
Entries 89
Mean −146.1
Std Dev 0

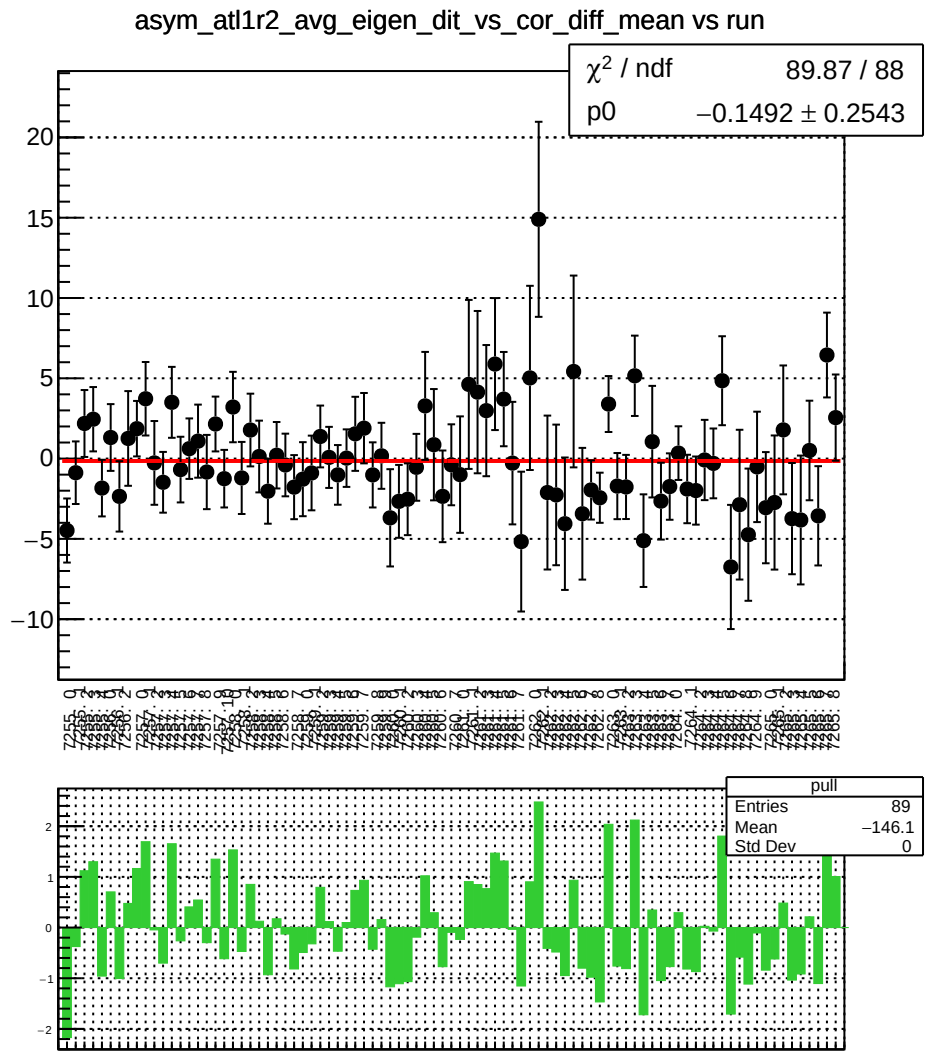

pull1D
Entries 89
Mean 0.01557
Std Dev 1.005

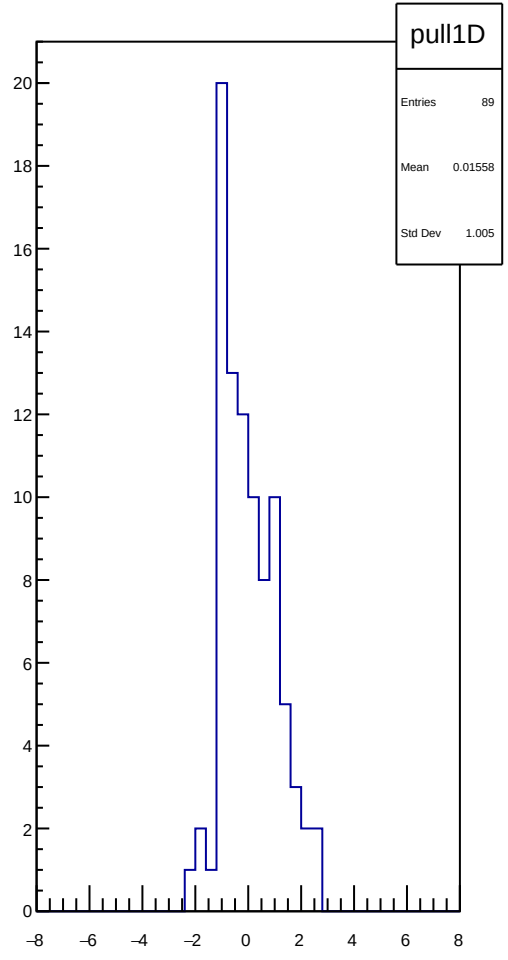

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.417e+05 / 88
p0 224.2 ± 0.1799
600
500
400
300
200

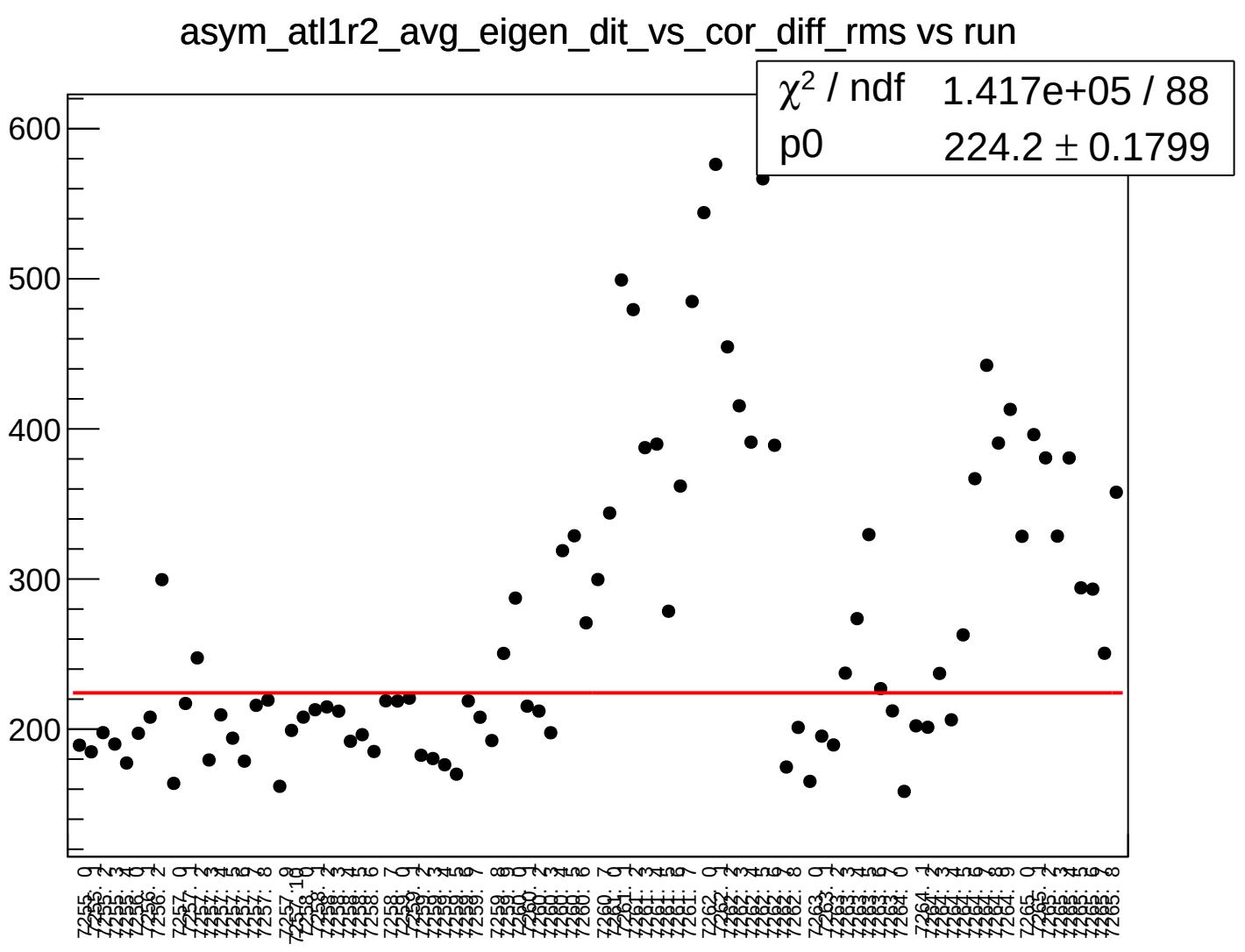

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.55 / 88
p0 9.843e−06 ± 1.297e−05
pull
Entries 89
Mean −488.8
Std Dev 0

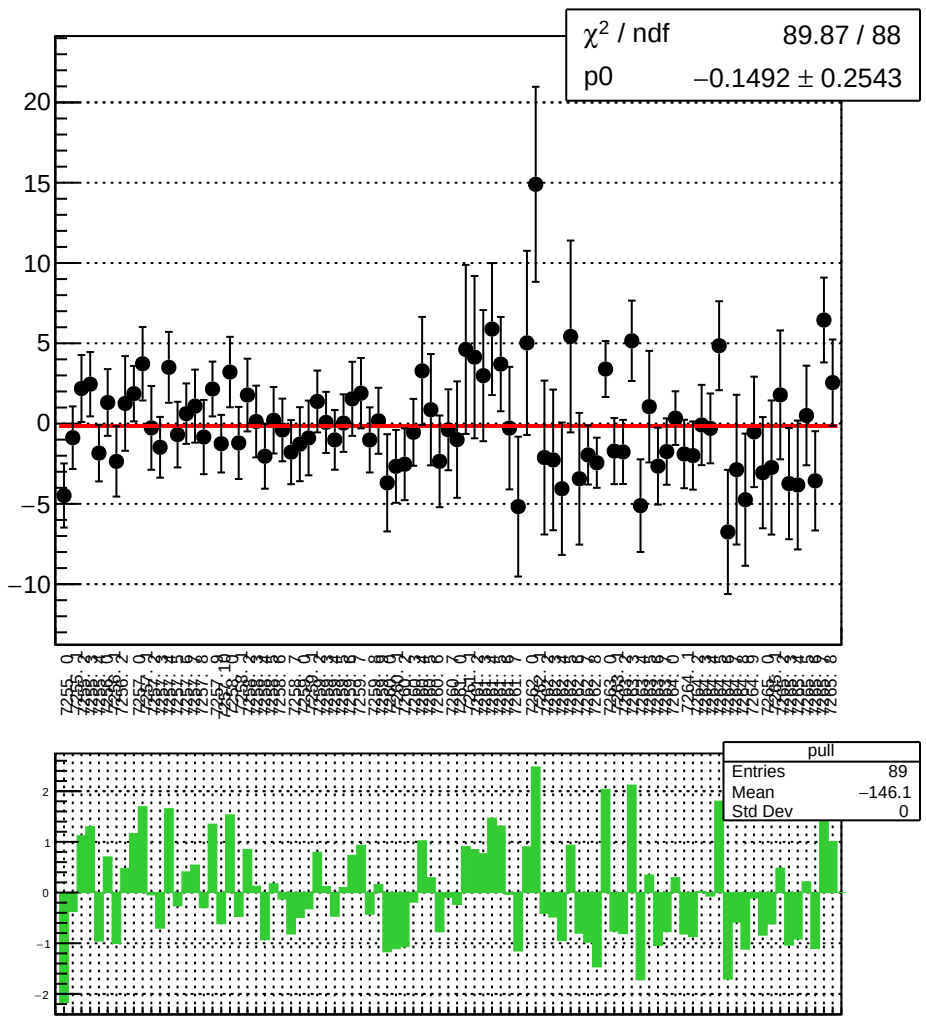

pull1D
Entries 89
Mean 0.007341
Std Dev 1.014

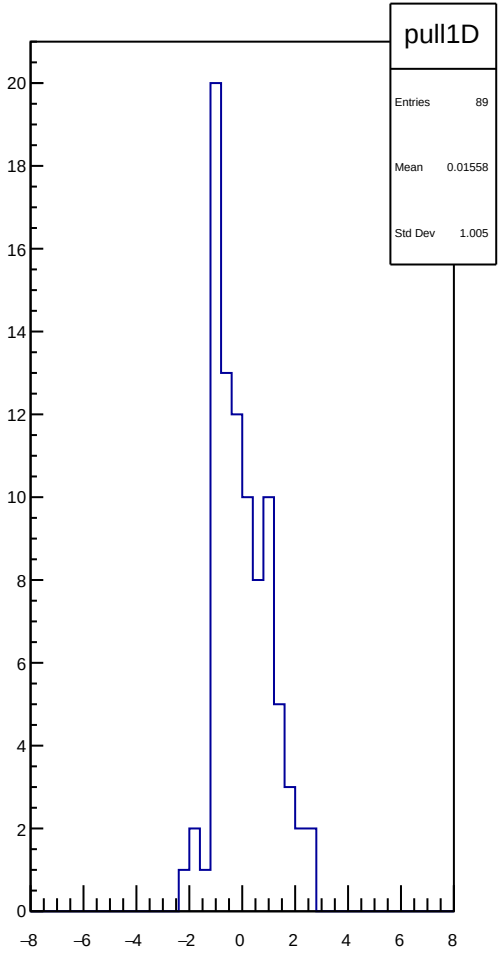

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4685 / 88
p0 0.01192 ± 9.169e−06
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105

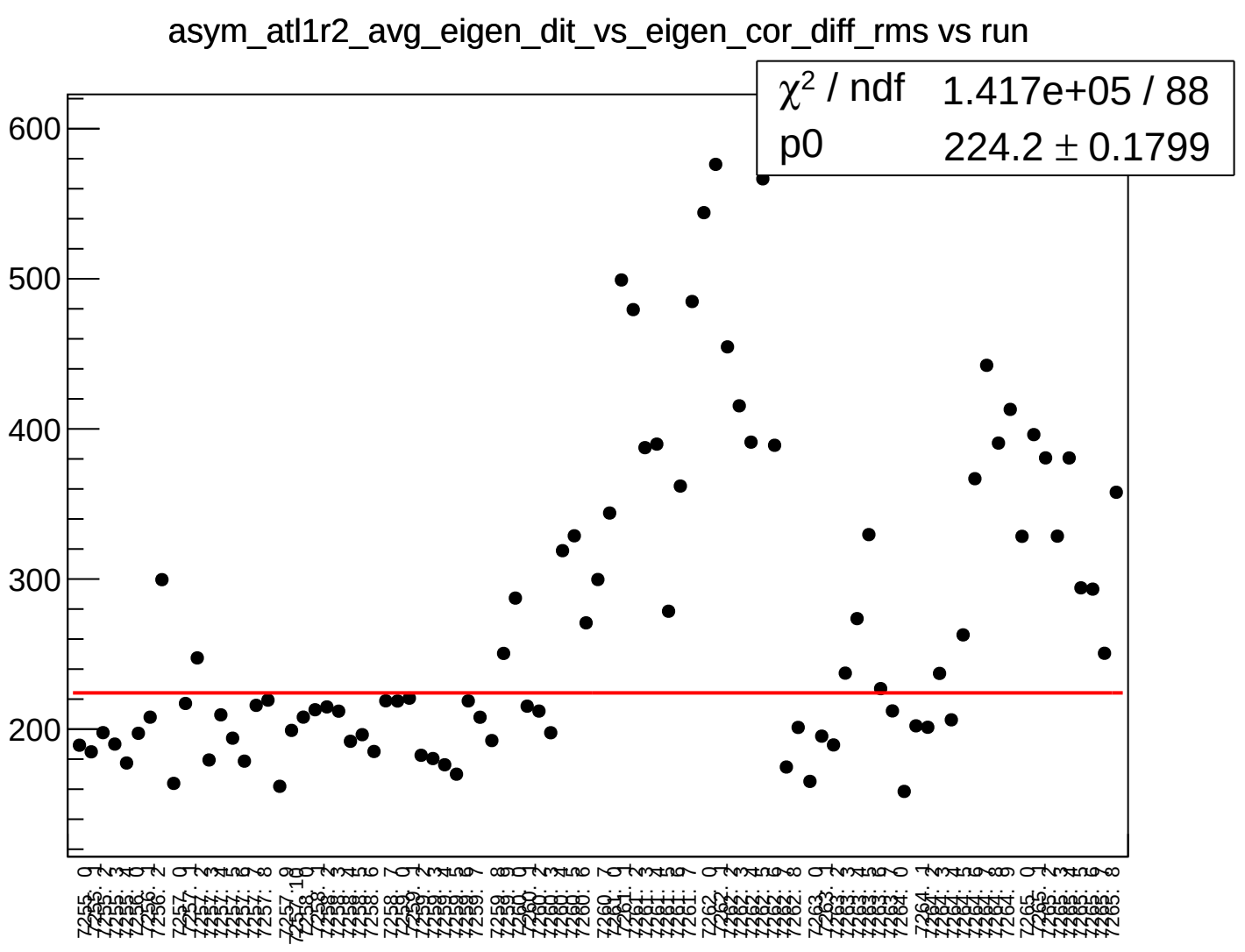

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.87 / 88
p0 −0.1492 ± 0.2543
pull
Entries 89
Mean −146.1
Std Dev 0

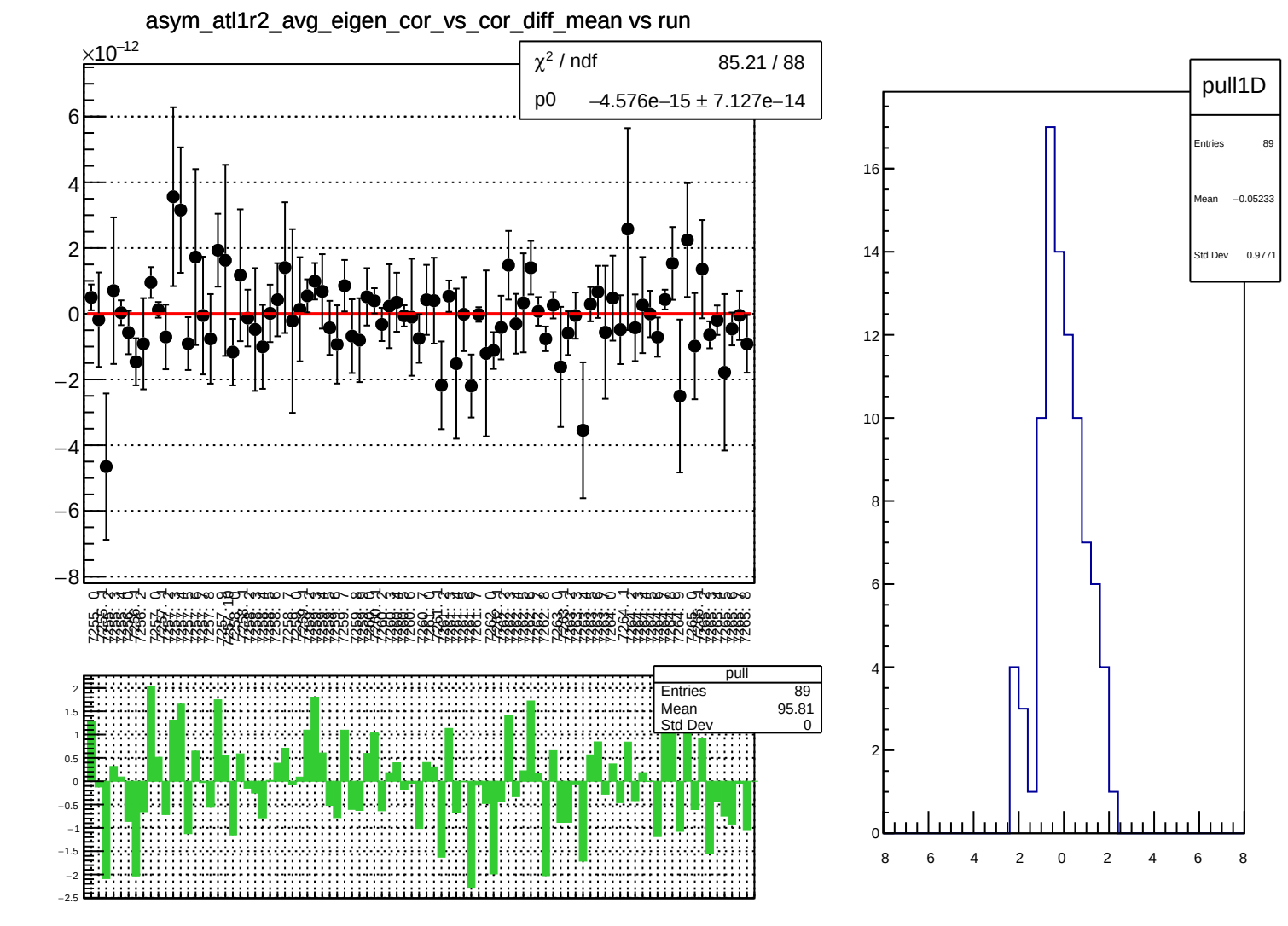

pull1D
Entries 89
Mean 0.01558
Std Dev 1.005

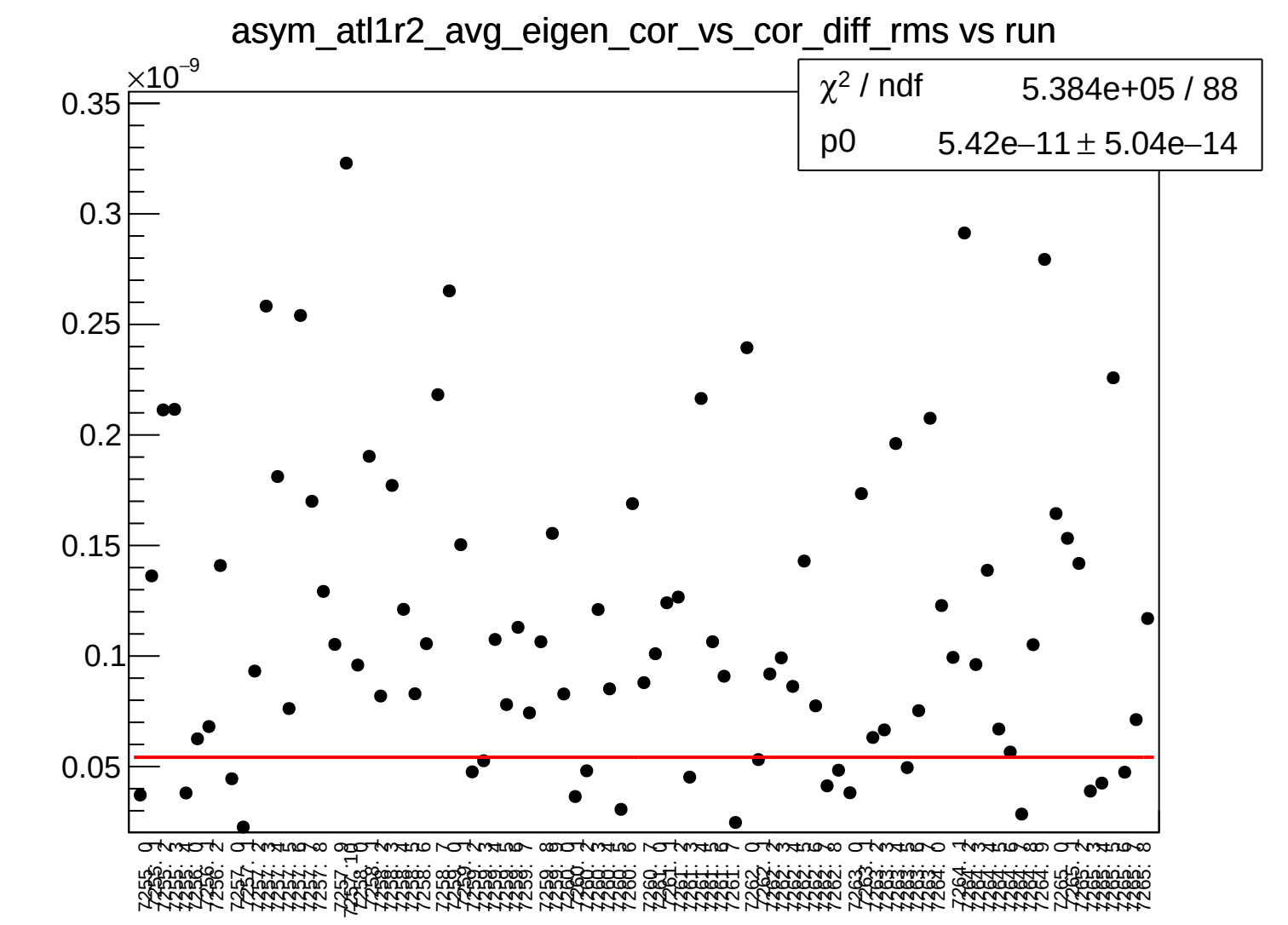

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.417e+05 / 88
p0 224.2 ± 0.1799
600
500
400
300
200

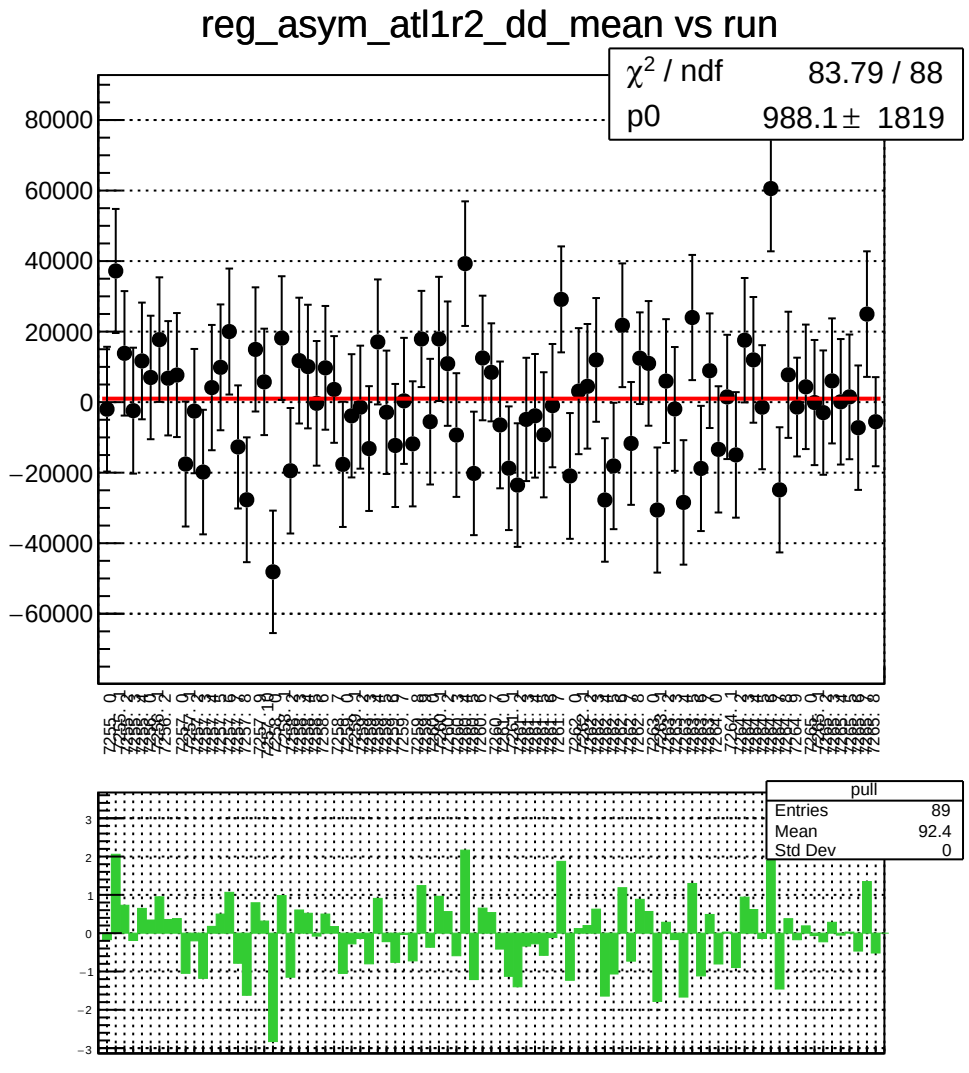

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.87 / 88
p0 −0.1492 ± 0.2543
pull
Entries 89
Mean −146.1
Std Dev 0

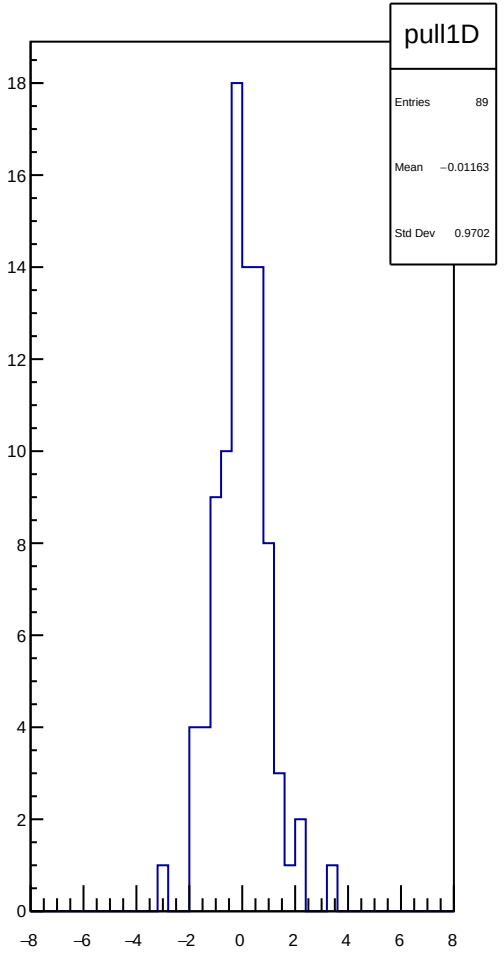

pull1D
Entries 89
Mean 0.01558
Std Dev 1.005

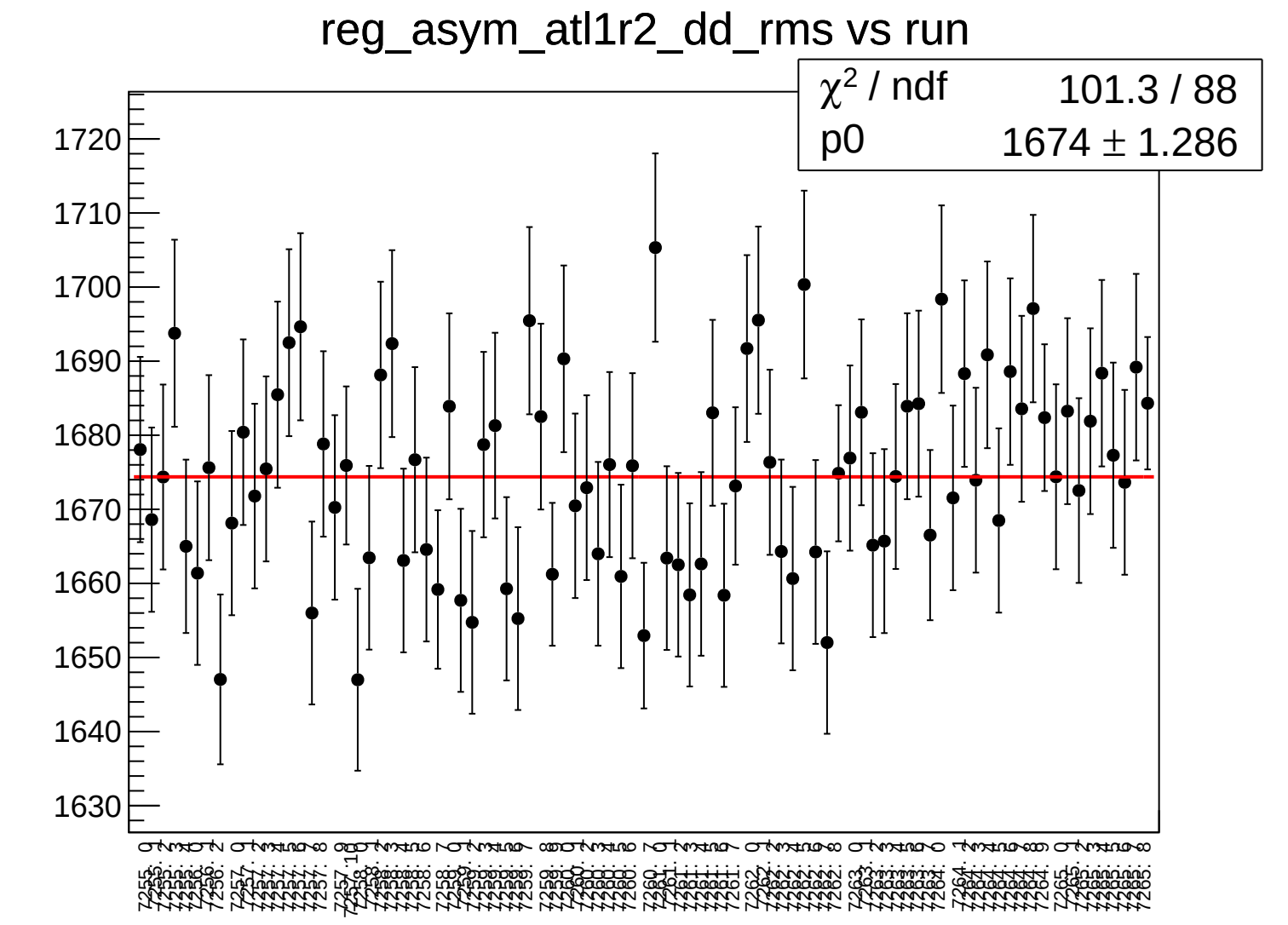

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.417e+05 / 88
p0 224.2 ± 0.1799
600
500
400
300
200

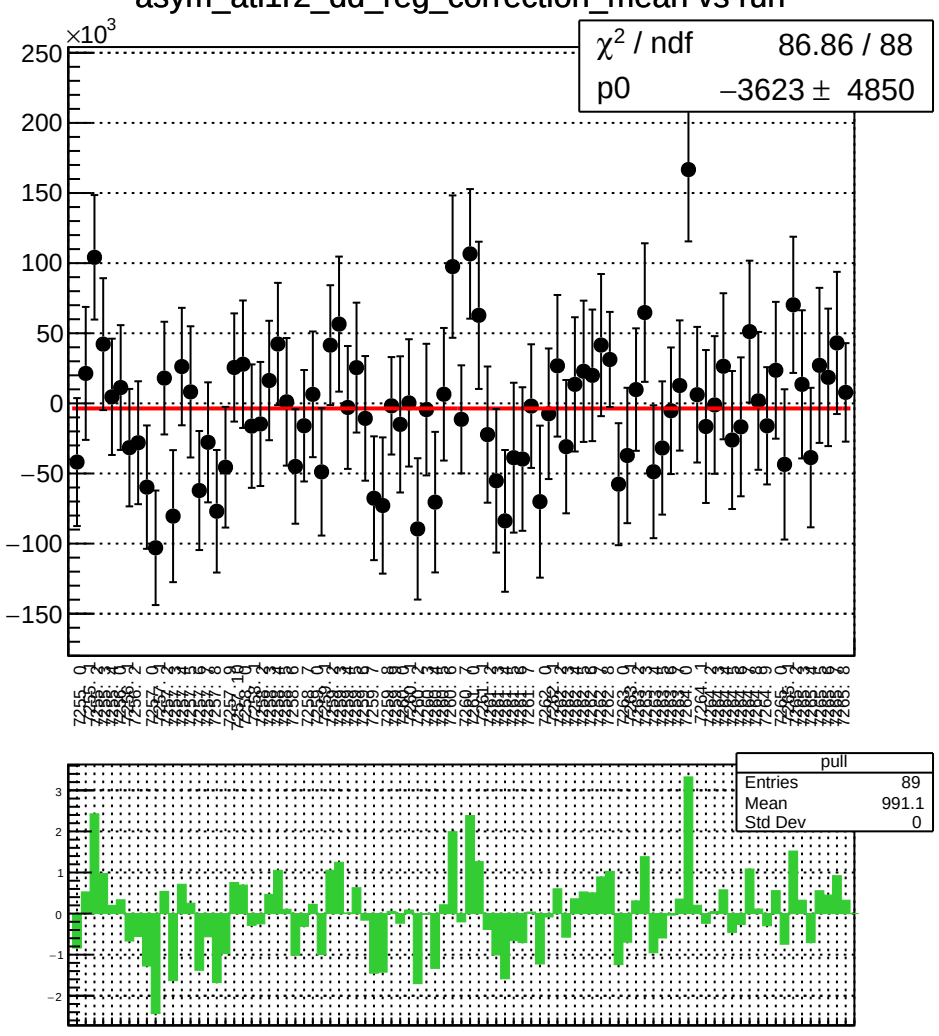

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.21 / 88
p0 −4.576e−15 ± 7.127e−14
pull
Entries 89
Mean 95.81
Std Dev 0
pull1D
Entries 89
Mean −0.05233
Std Dev 0.9771

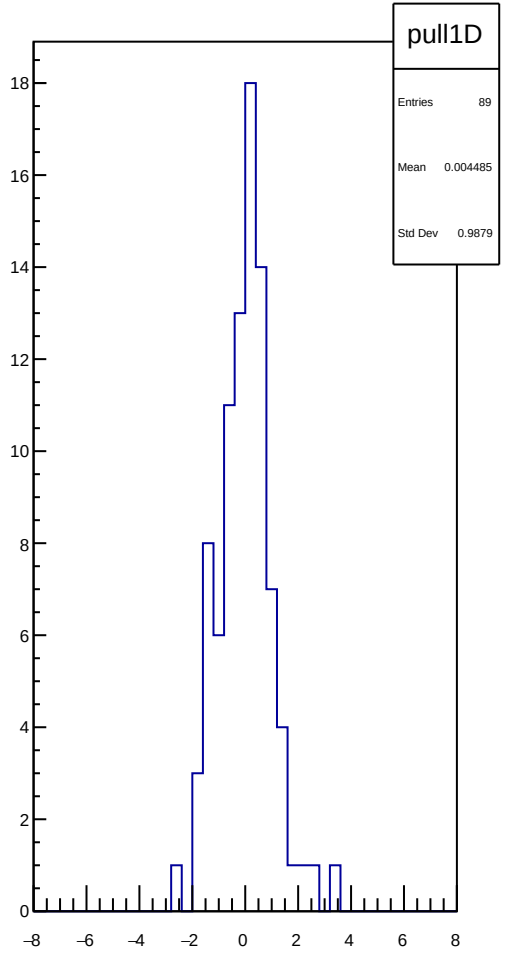

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.384e+05 / 88
p0 5.42e−11 ± 5.04e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

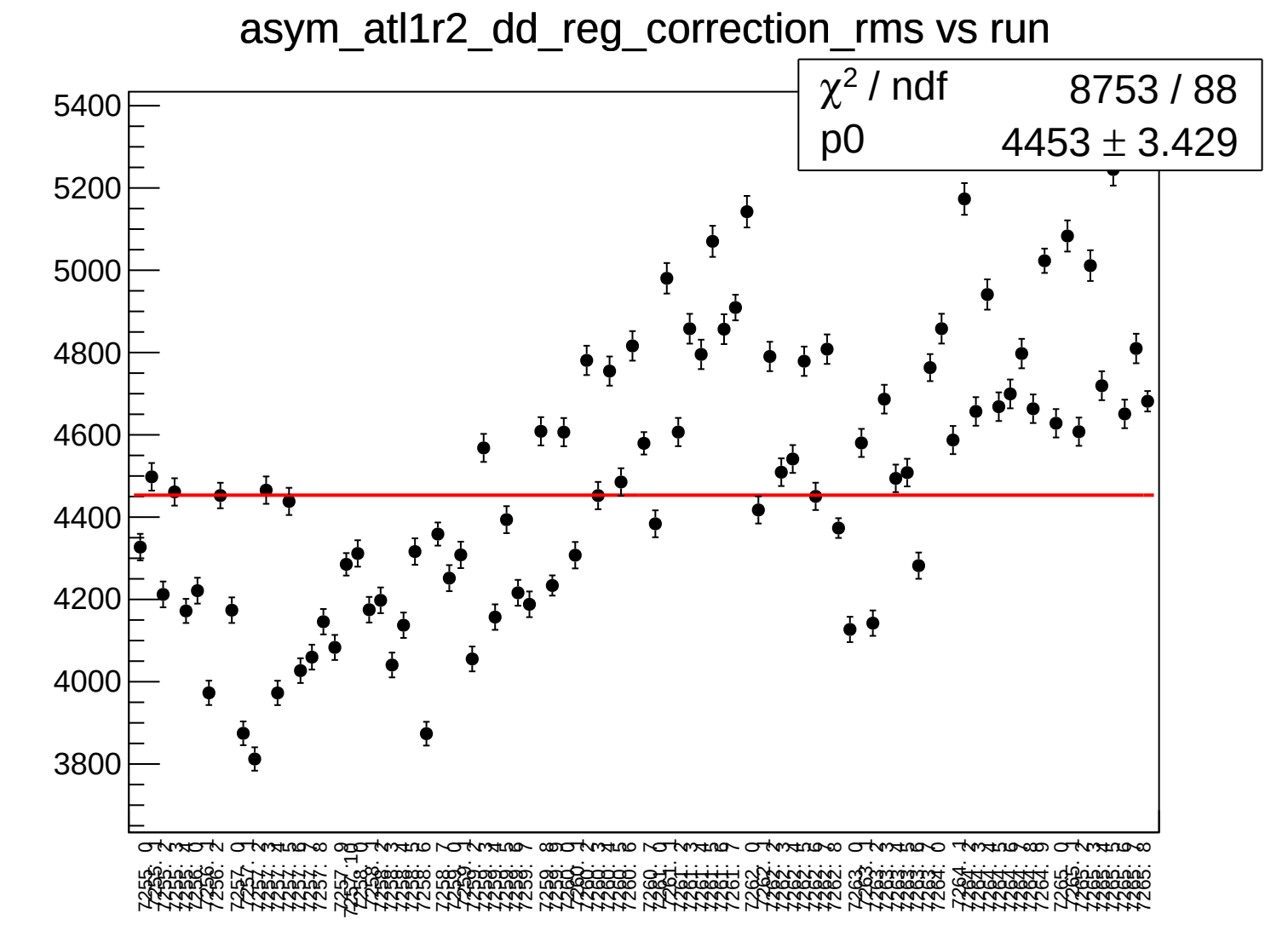

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 83.79 / 88
p0 988.1 ± 1819
pull
Entries 89
Mean 92.4
Std Dev 0

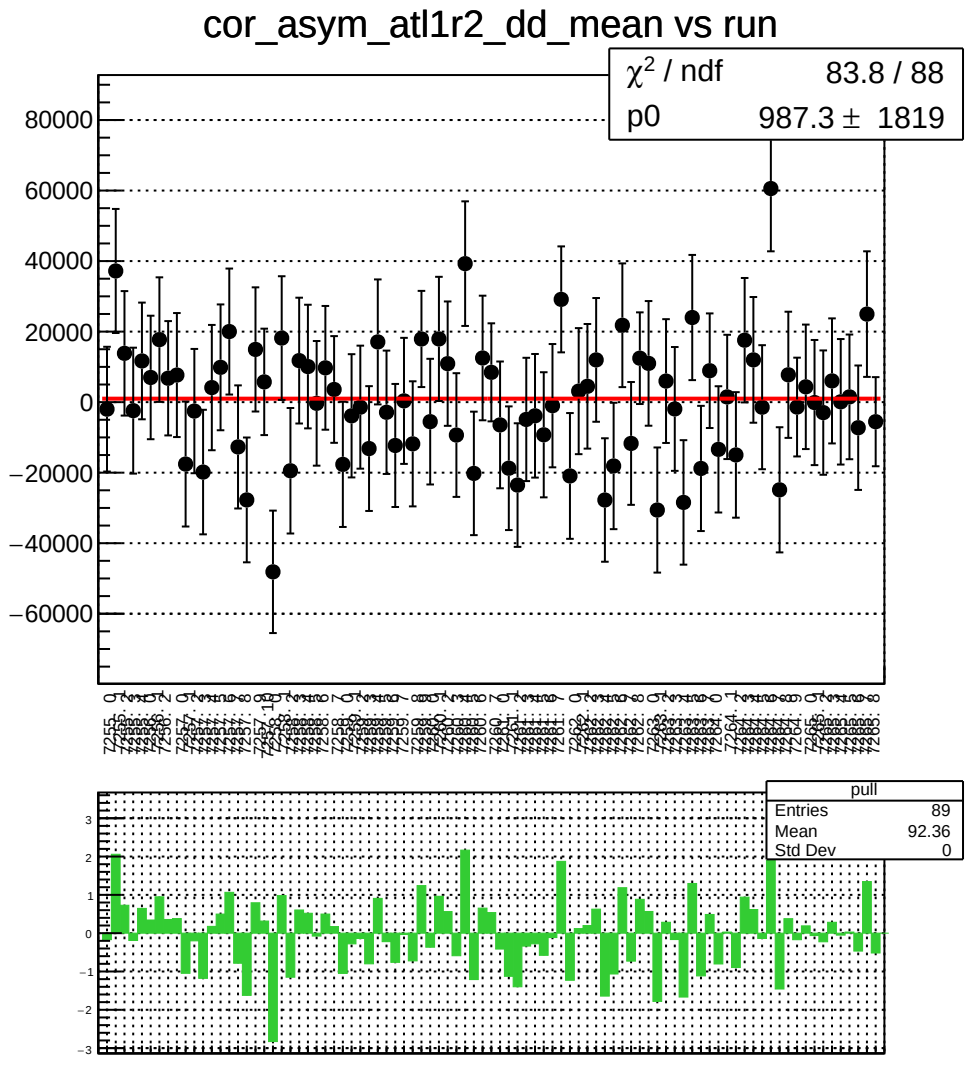

pull1D
Entries 89
Mean −0.01163
Std Dev 0.9702

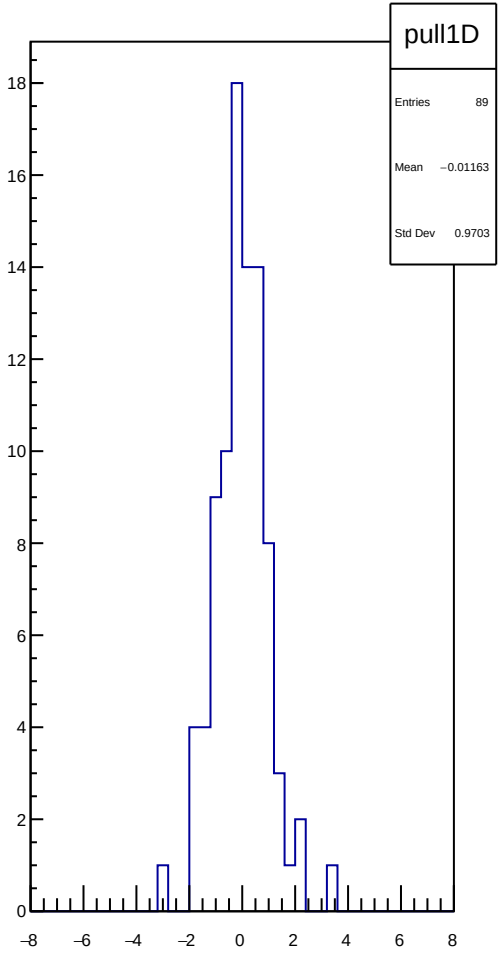

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 101.3 / 88
p0 1674 ± 1.286
1720
1710
1700
1690
1680
1670
1660
1650
1640
1630

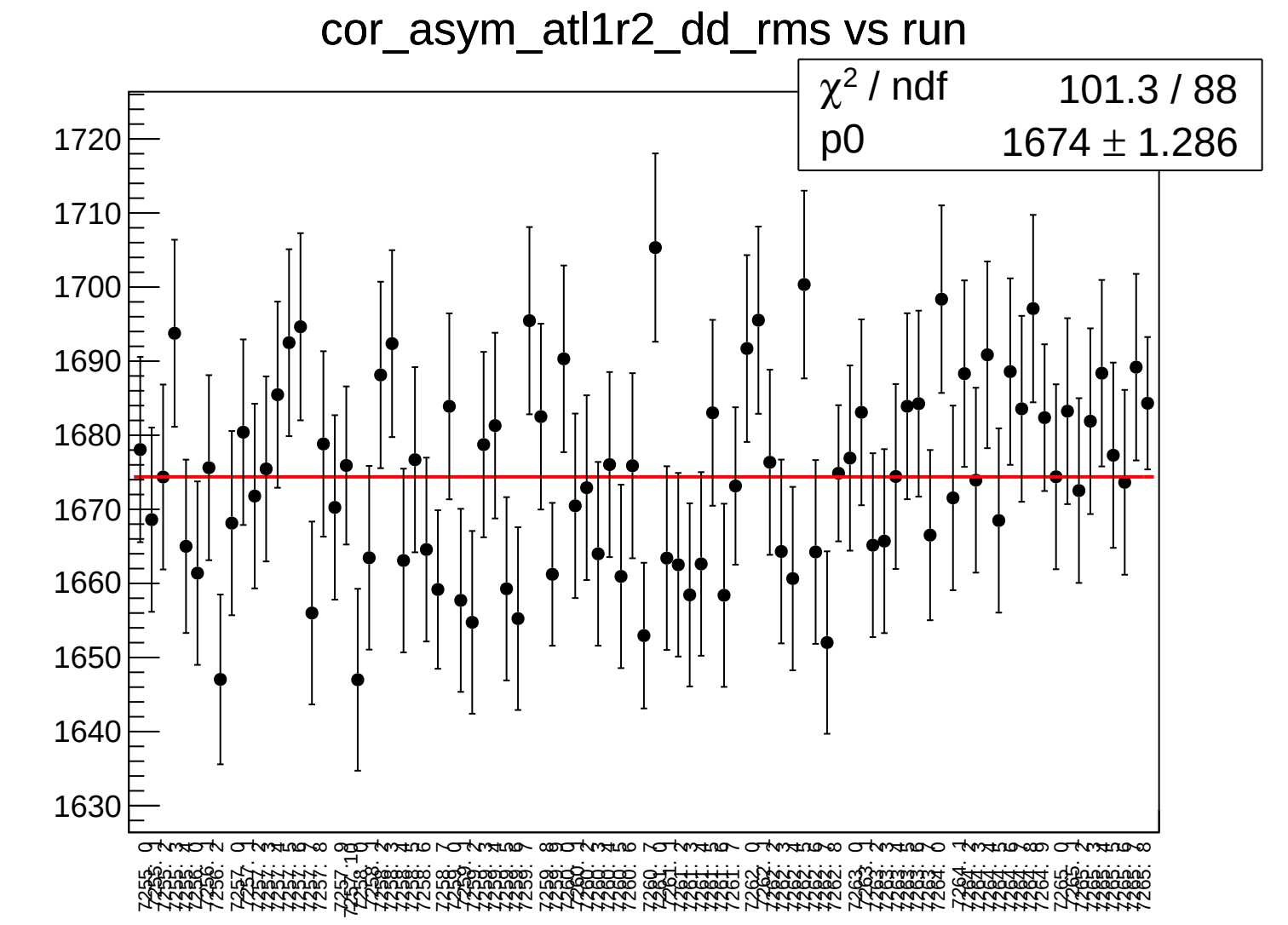

asym_atl1r2_dd_reg_correction_mean vs run
χ² / ndf 86.86 / 88
p0 −3623 ± 4850
×10³
pull
Entries 89
Mean 991.1
Std Dev 0

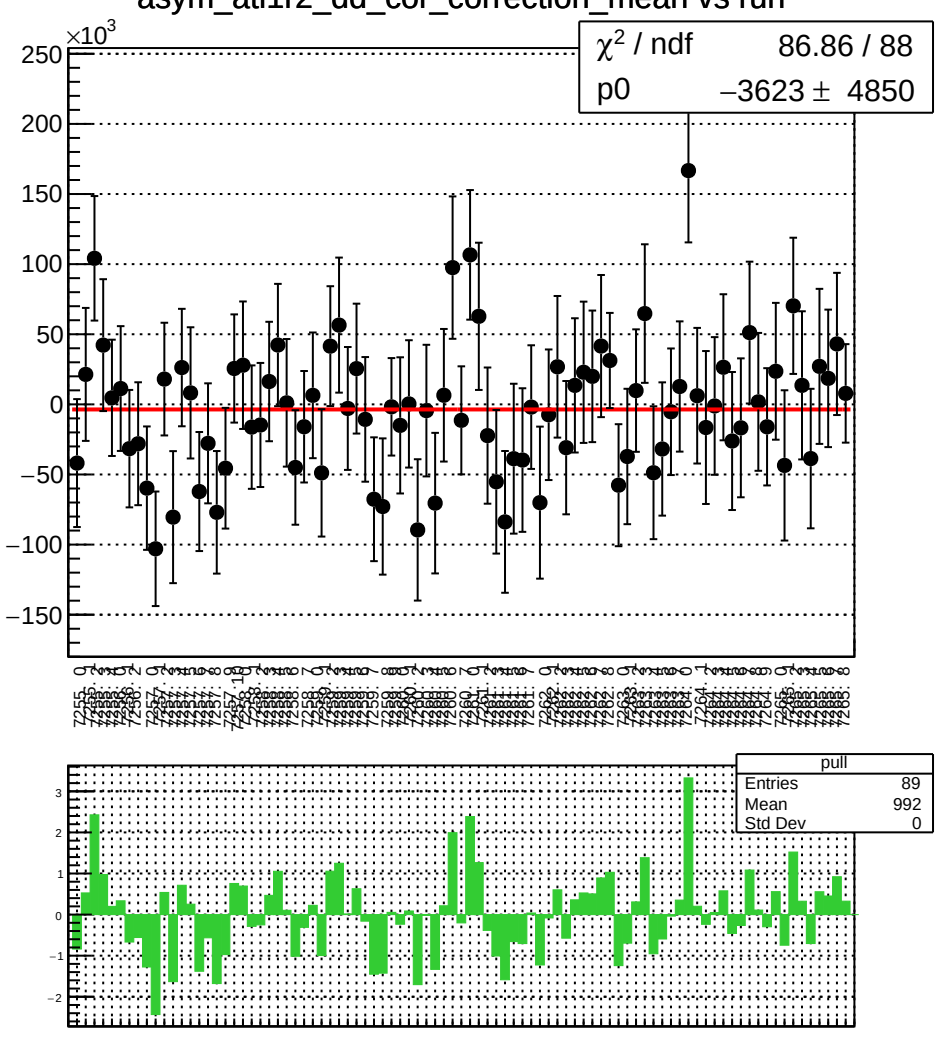

pull1D
Entries 89
Mean 0.004485
Std Dev 0.9879

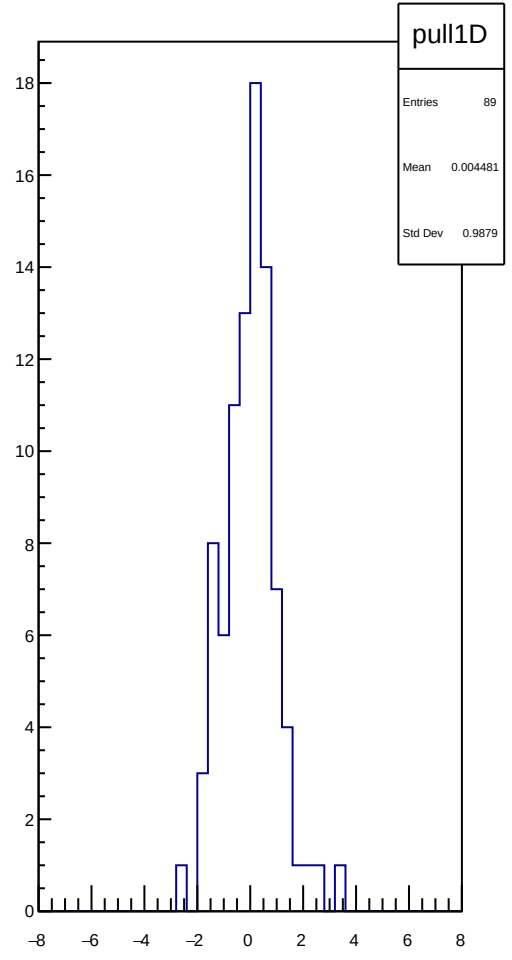

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 8753 / 88
p0 4453 ± 3.429
5400
5200
5000
4800
4600
4400
4200
4000
3800

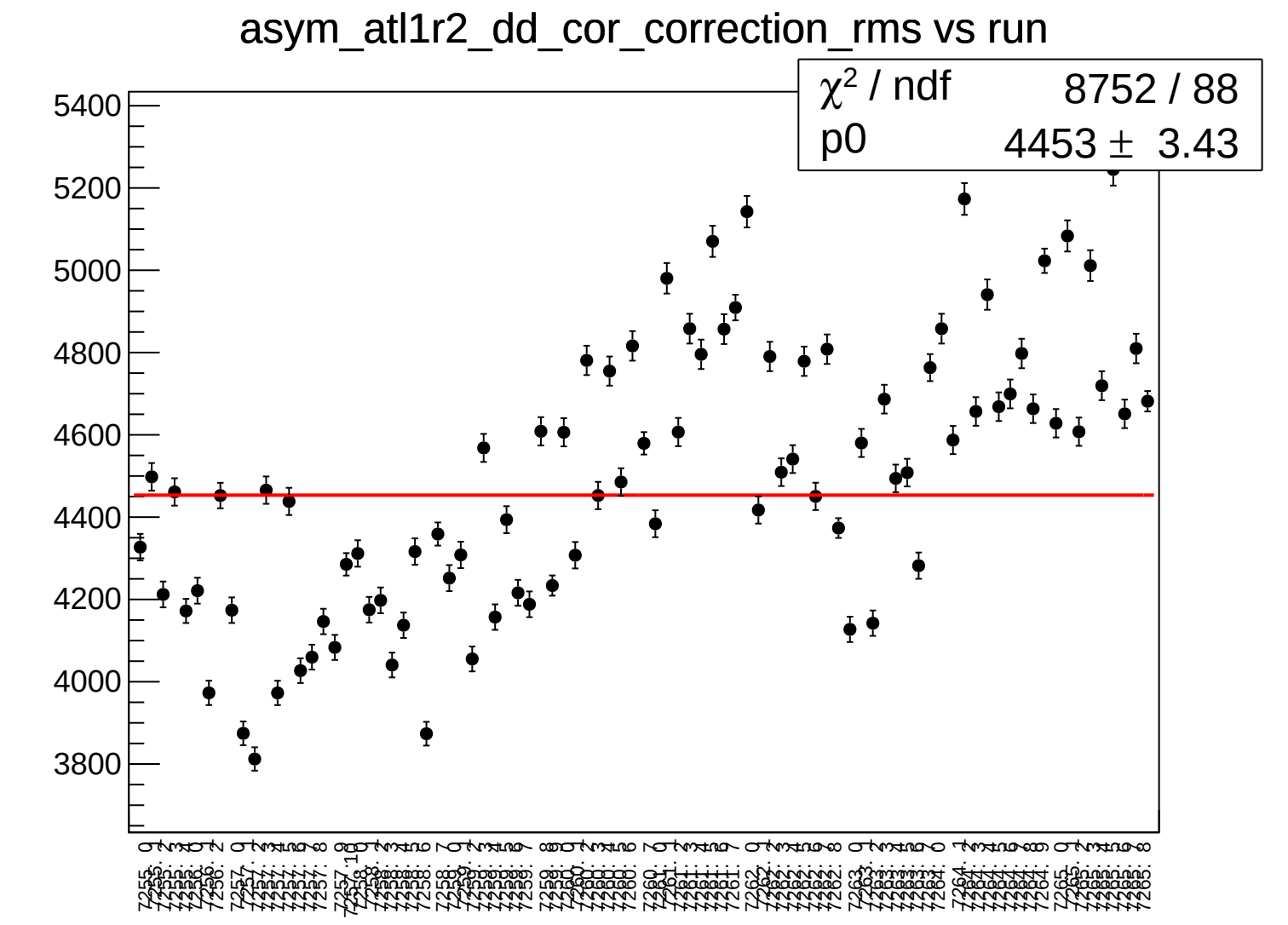

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 83.8 / 88
p0 987.3 ± 1819
pull
Entries 89
Mean 92.36
Std Dev 0

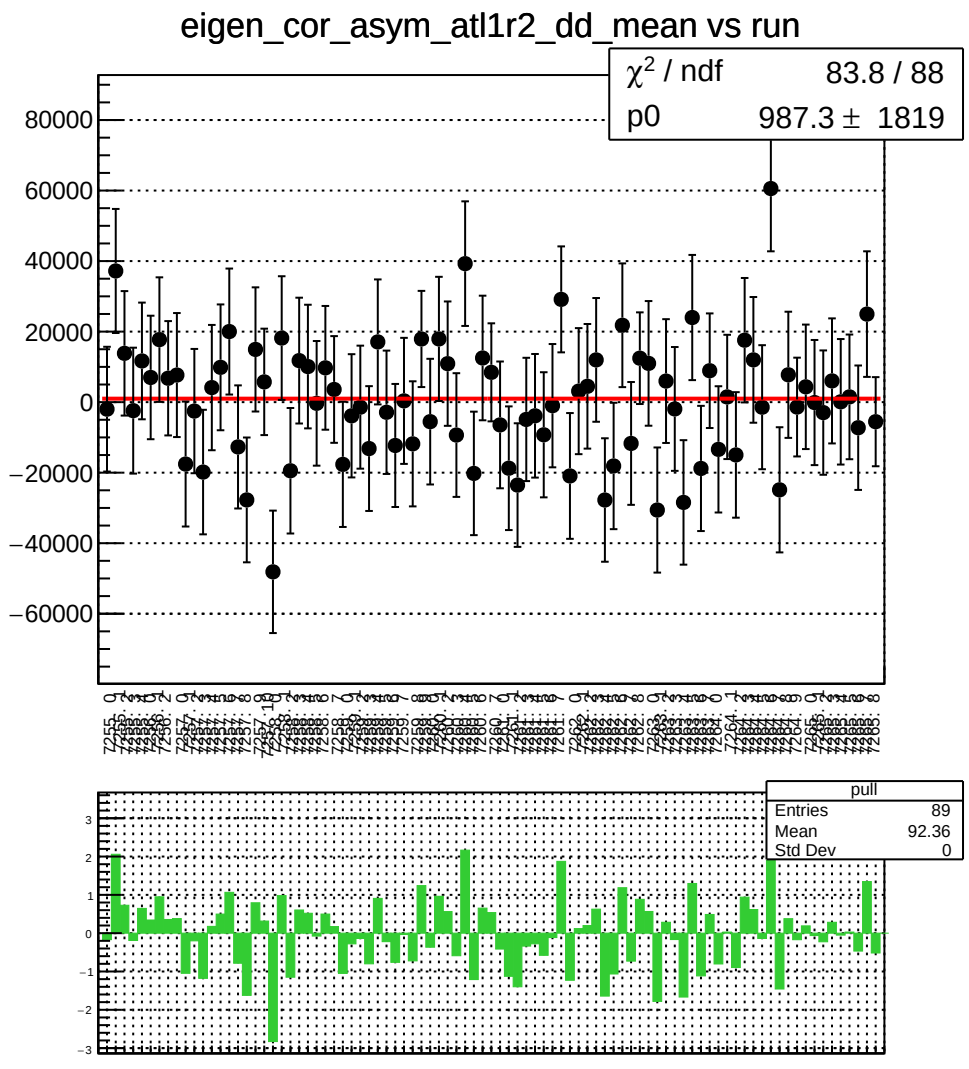

pull1D
Entries 89
Mean −0.01163
Std Dev 0.9703

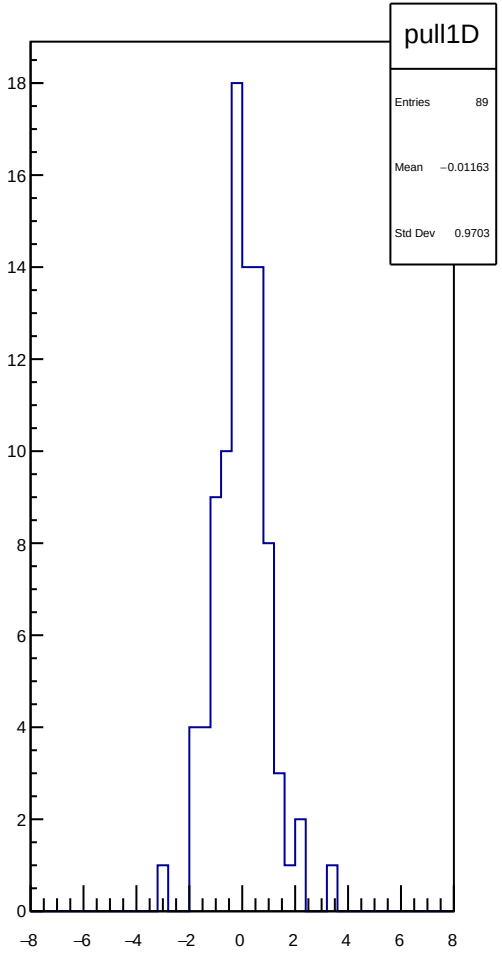

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 101.3 / 88
p0 1674 ± 1.286
1720
1710
1700
1690
1680
1670
1660
1650
1640
1630

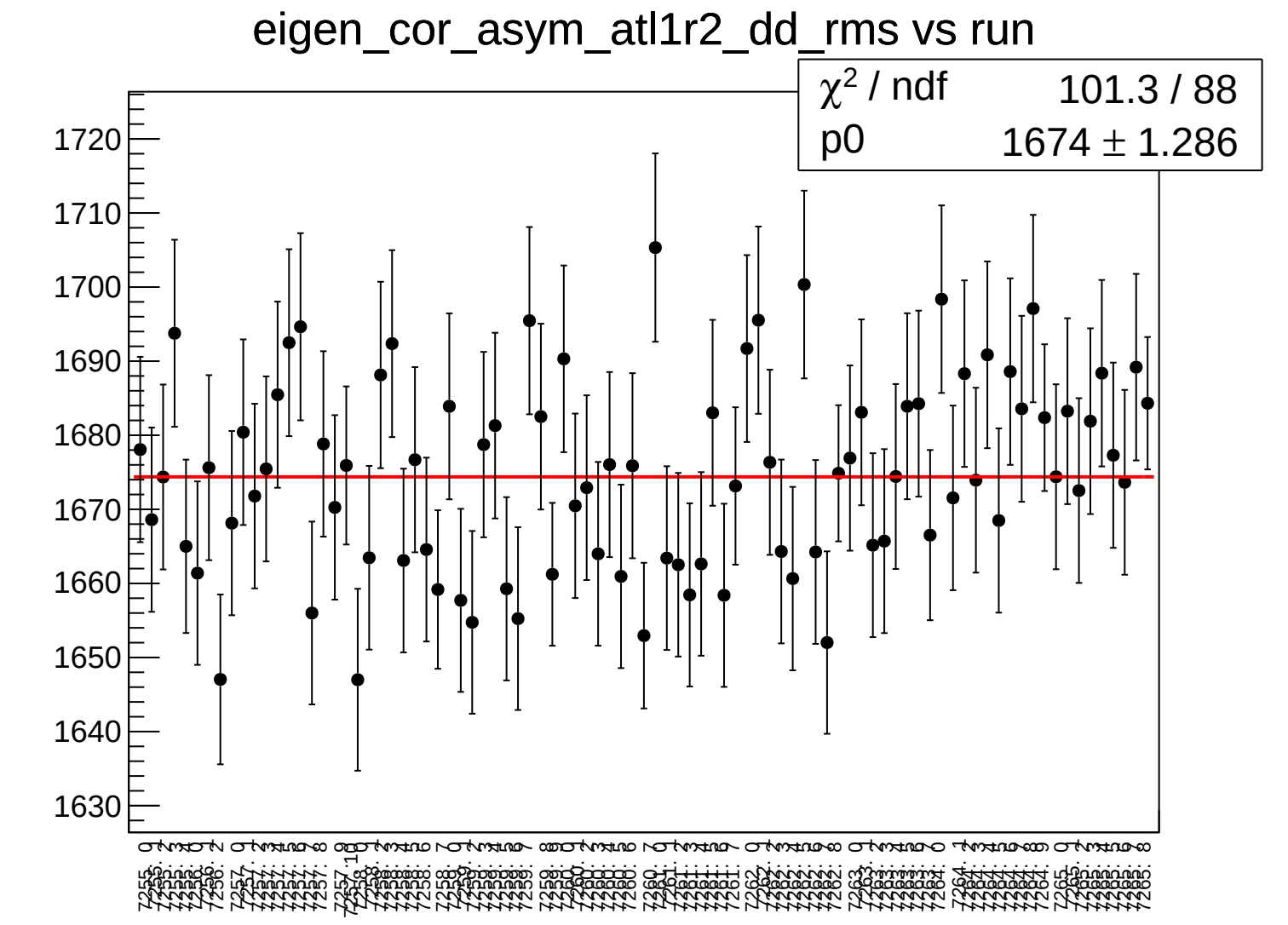

asym_atl1r2_dd_cor_correction_mean vs run
χ^2 / ndf 86.86 / 88
p0 −3623 ± 4850
×10^3
pull
Entries 89
Mean 992
Std Dev 0

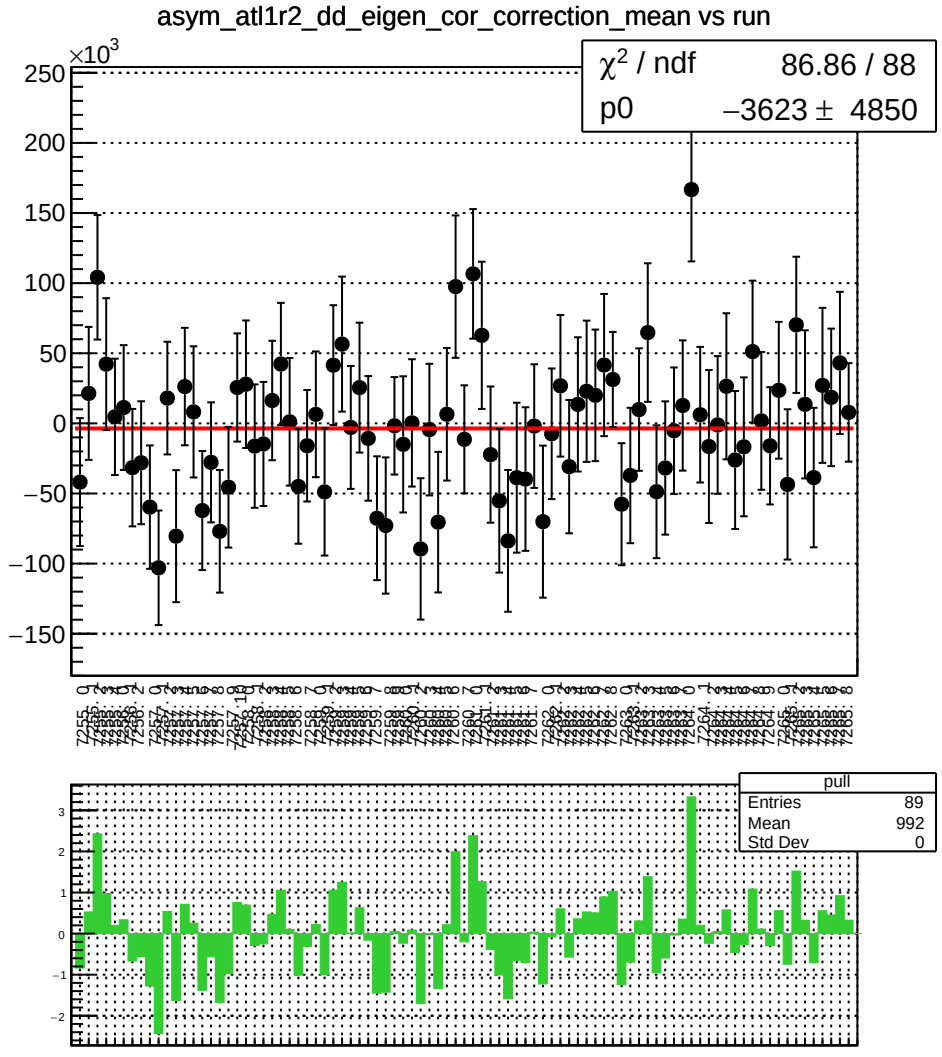

pull1D
Entries 89
Mean 0.004481
Std Dev 0.9879

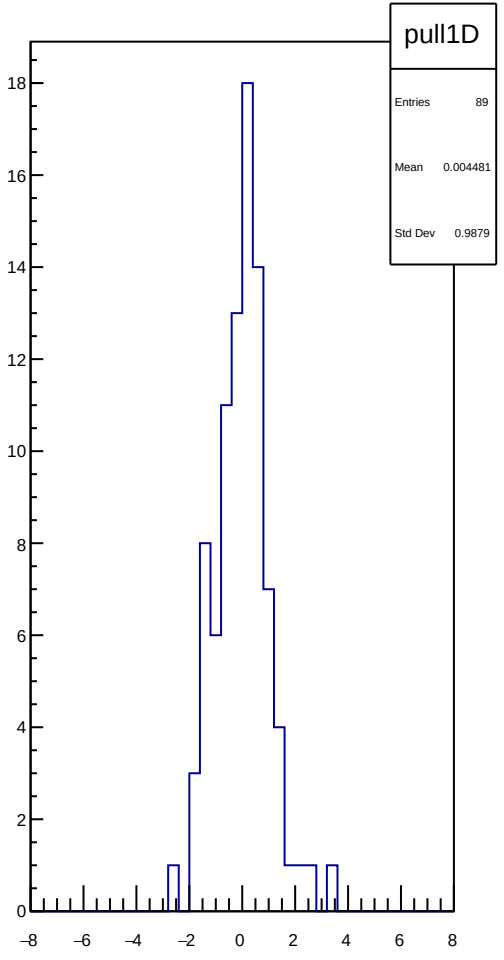

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 8752 / 88
p0 4453 ± 3.43
5400
5200
5000
4800
4600
4400
4200
4000
3800

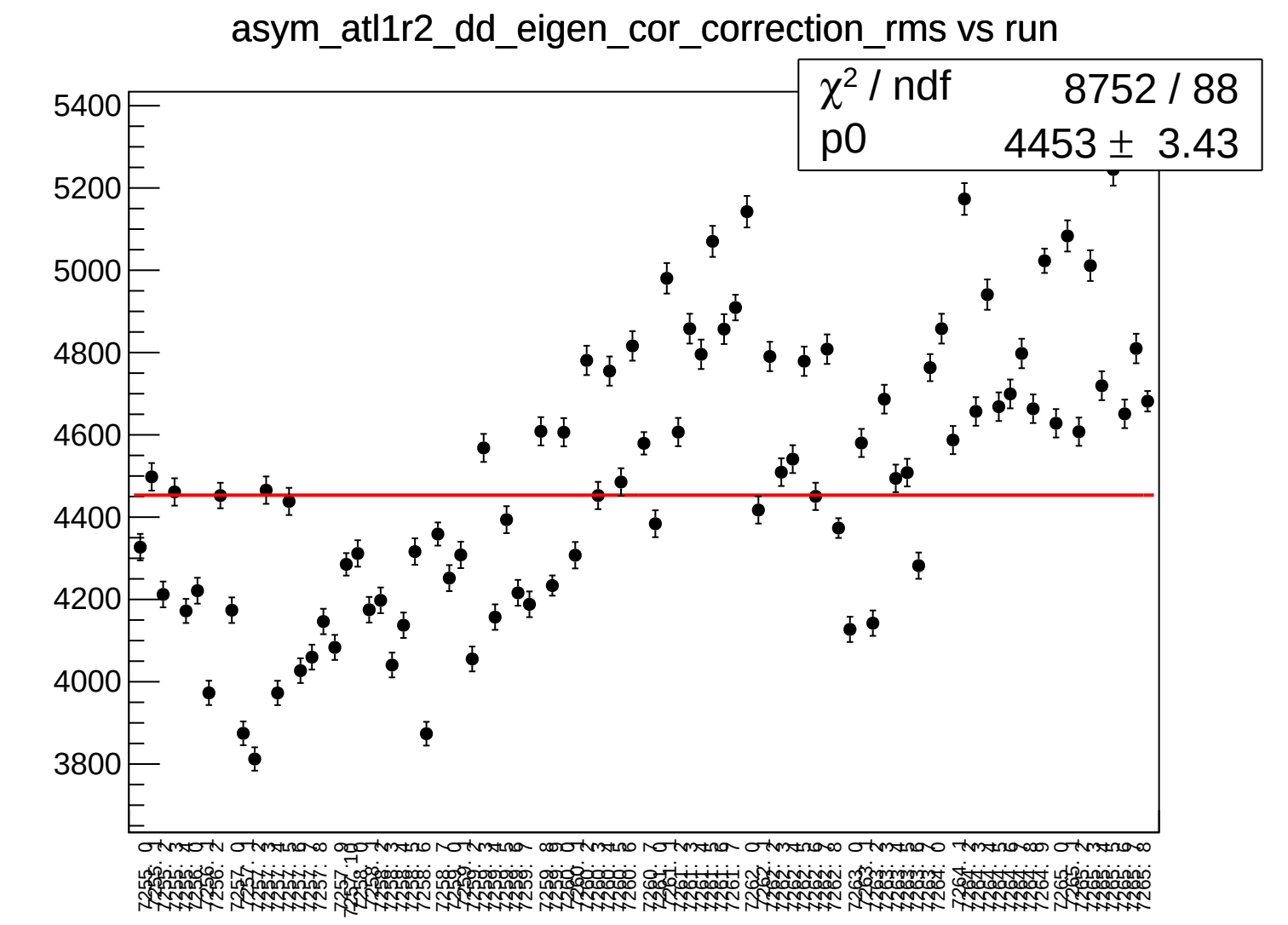

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 83.8 / 88
p0 987.3 ± 1819
pull
Entries 89
Mean 92.36
Std Dev 0

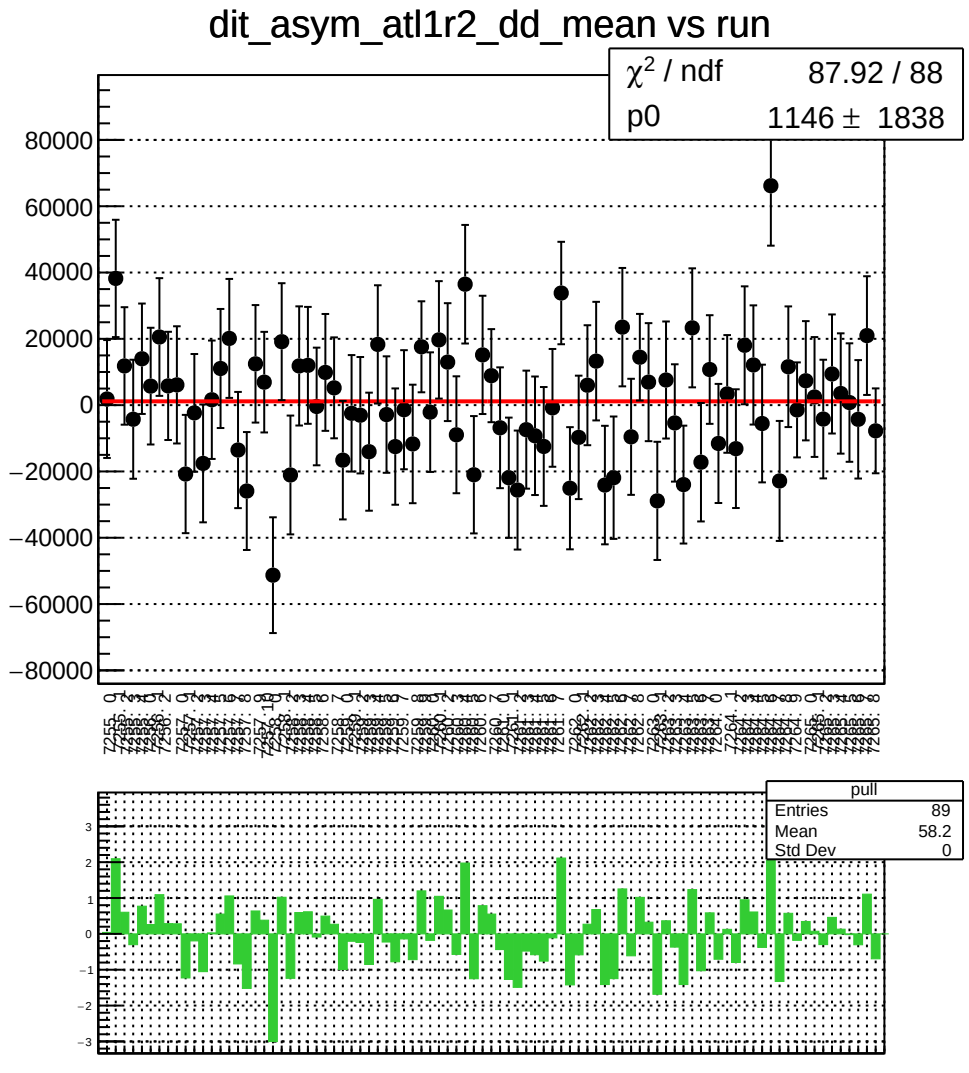

pull1D
Entries 89
Mean −0.01163
Std Dev 0.9703

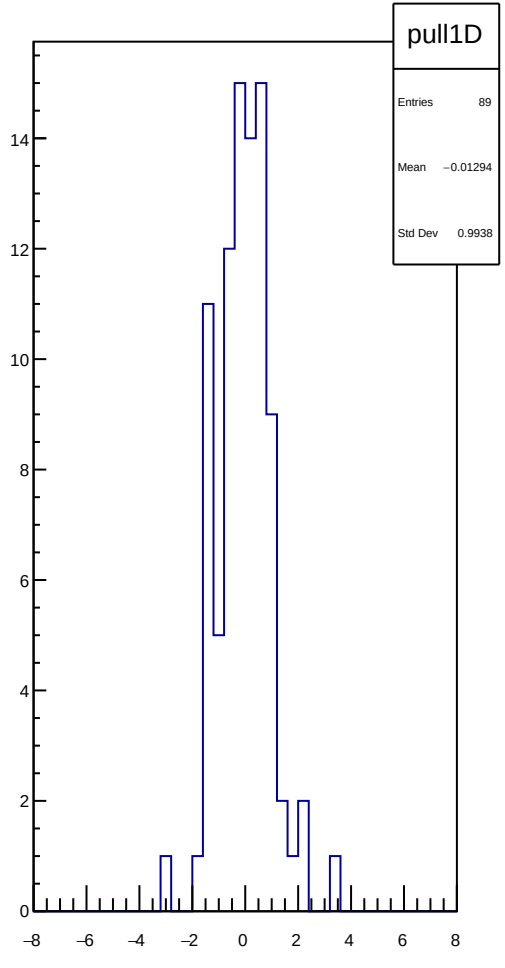

eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 101.3 / 88
p0 1674 ± 1.286
1720
1710
1700
1690
1680
1670
1660
1650
1640
1630

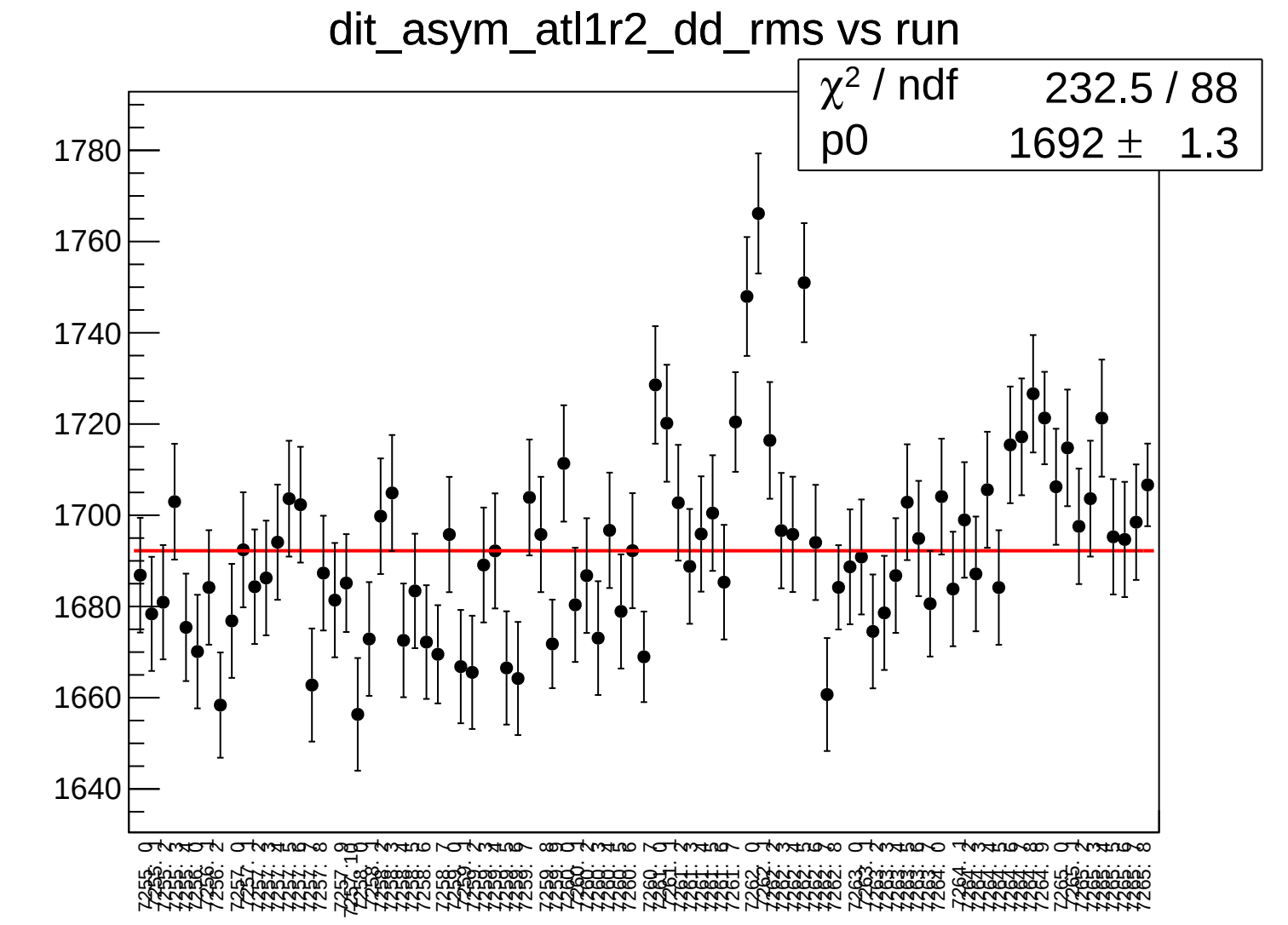

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.86 / 88
p0 −3623 ± 4850
pull
Entries 89
Mean 992
Std Dev 0

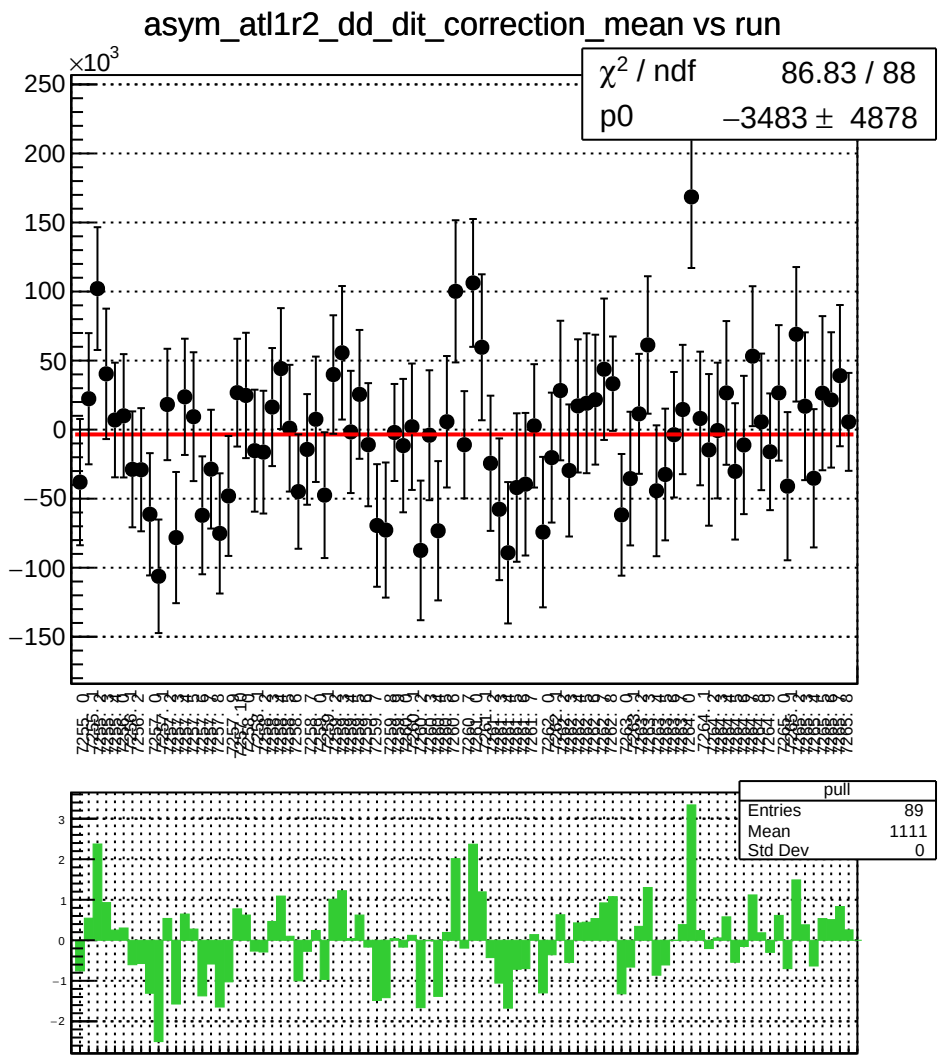

pull1D
Entries 89
Mean 0.004481
Std Dev 0.9879

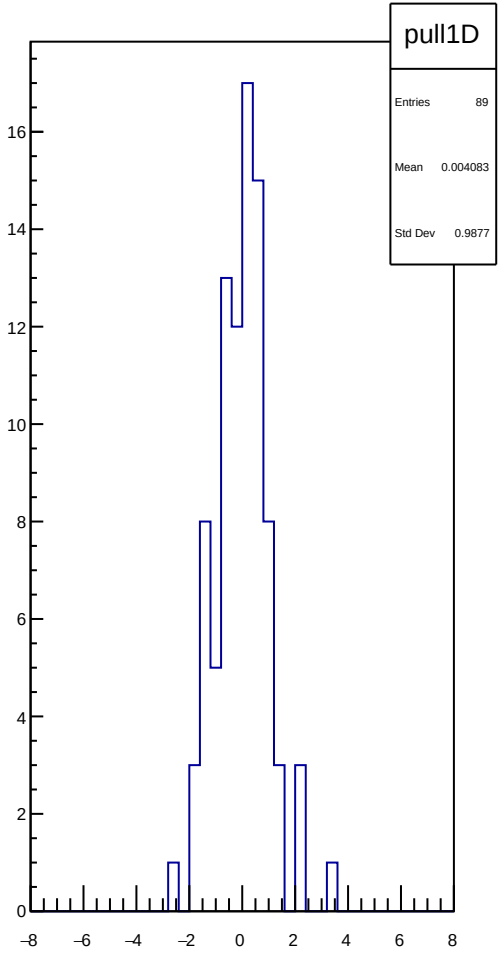

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 8752 / 88
p0 4453 ± 3.43
5400
5200
5000
4800
4600
4400
4200
4000
3800

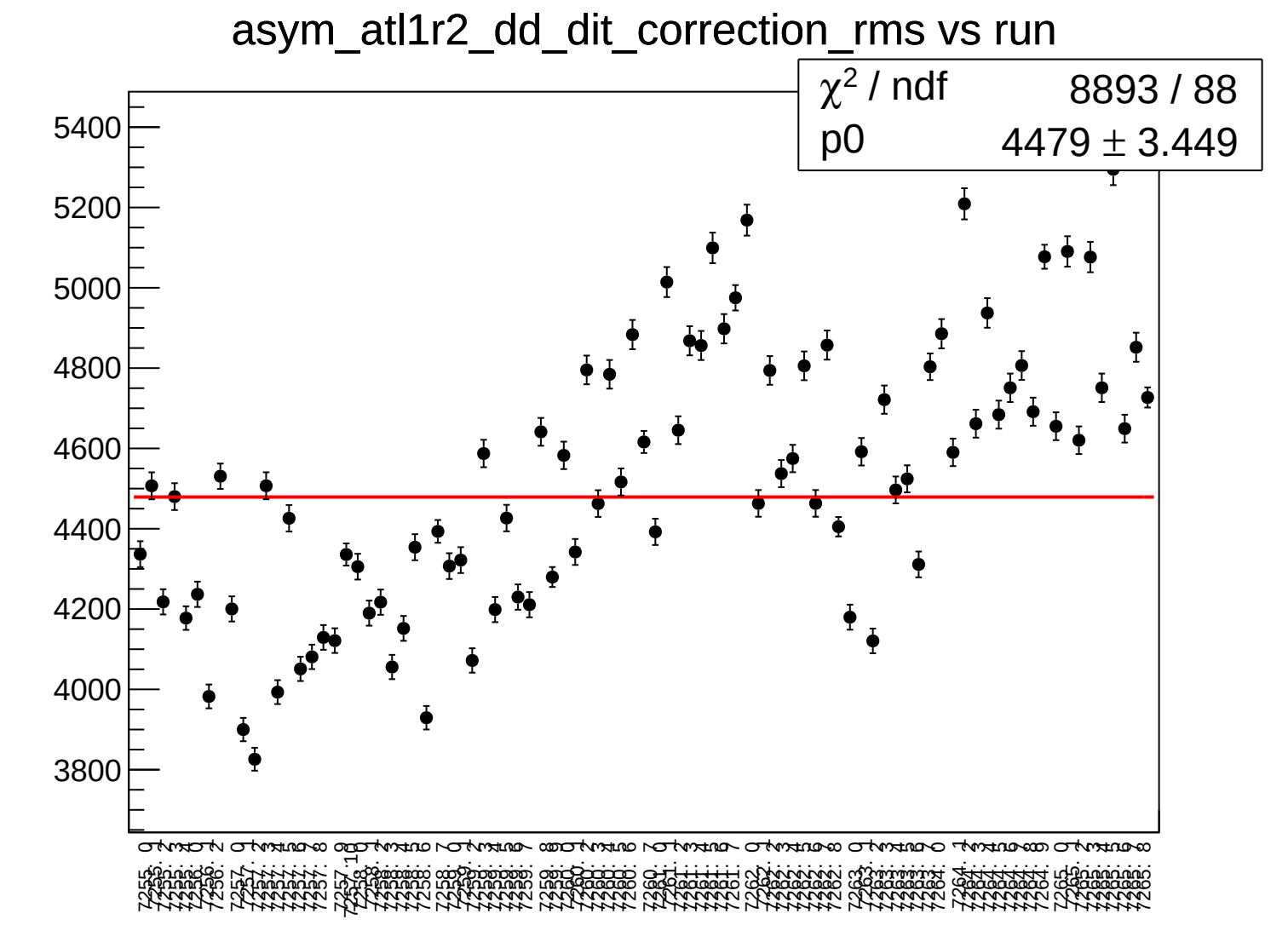

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 87.92 / 88
p0 1146 ± 1838
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 58.2
Std Dev 0
3
2
1
0
−1
−2
−3

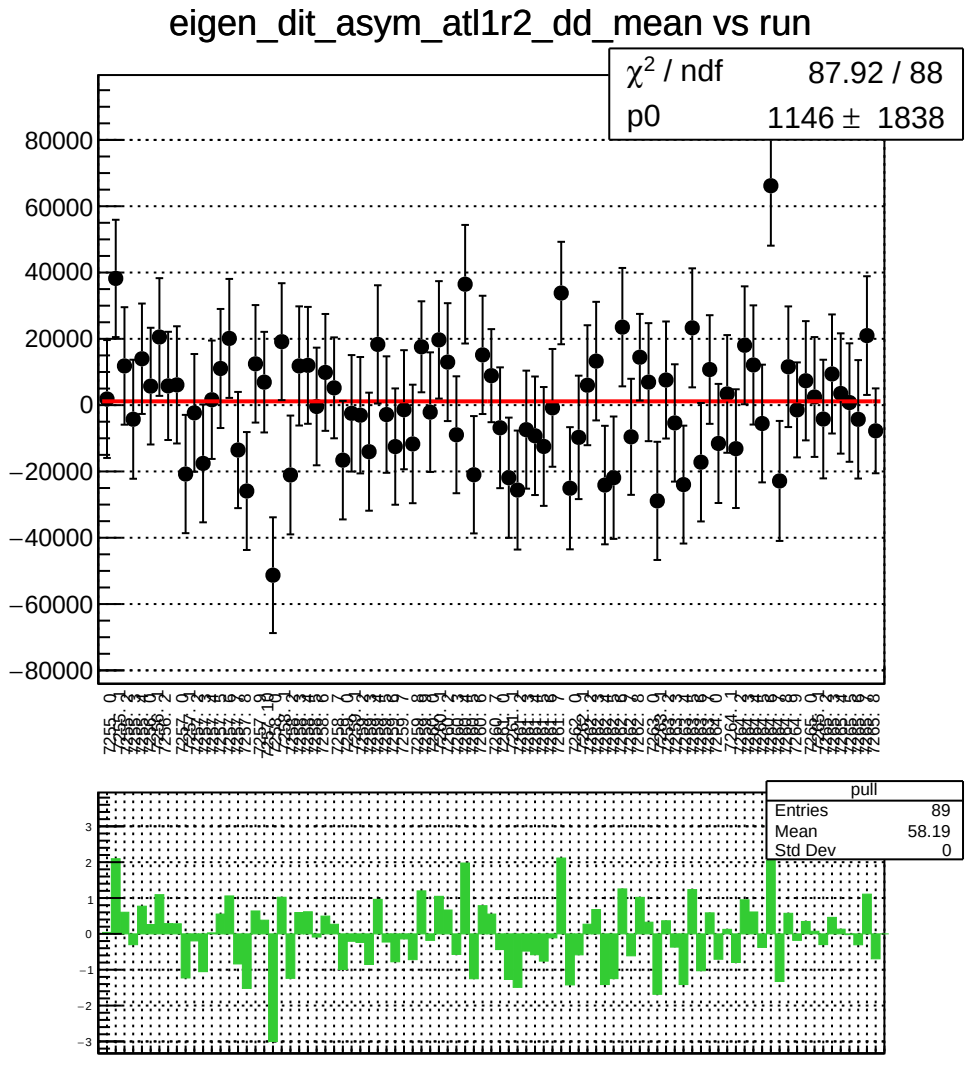

pull1D
Entries 89
Mean −0.01294
Std Dev 0.9938
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

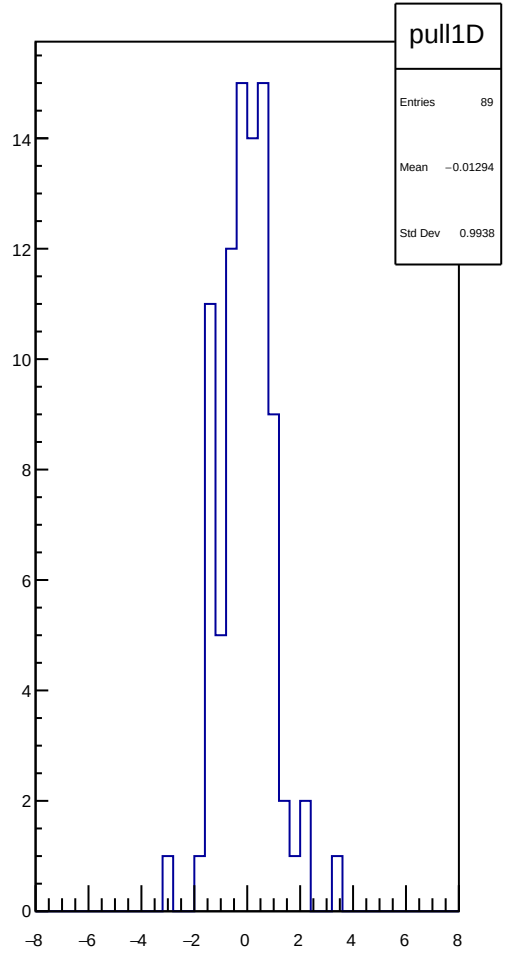

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 232.5 / 88
p0 1692 ± 1.3
1780
1760
1740
1720
1700
1680
1660
1640

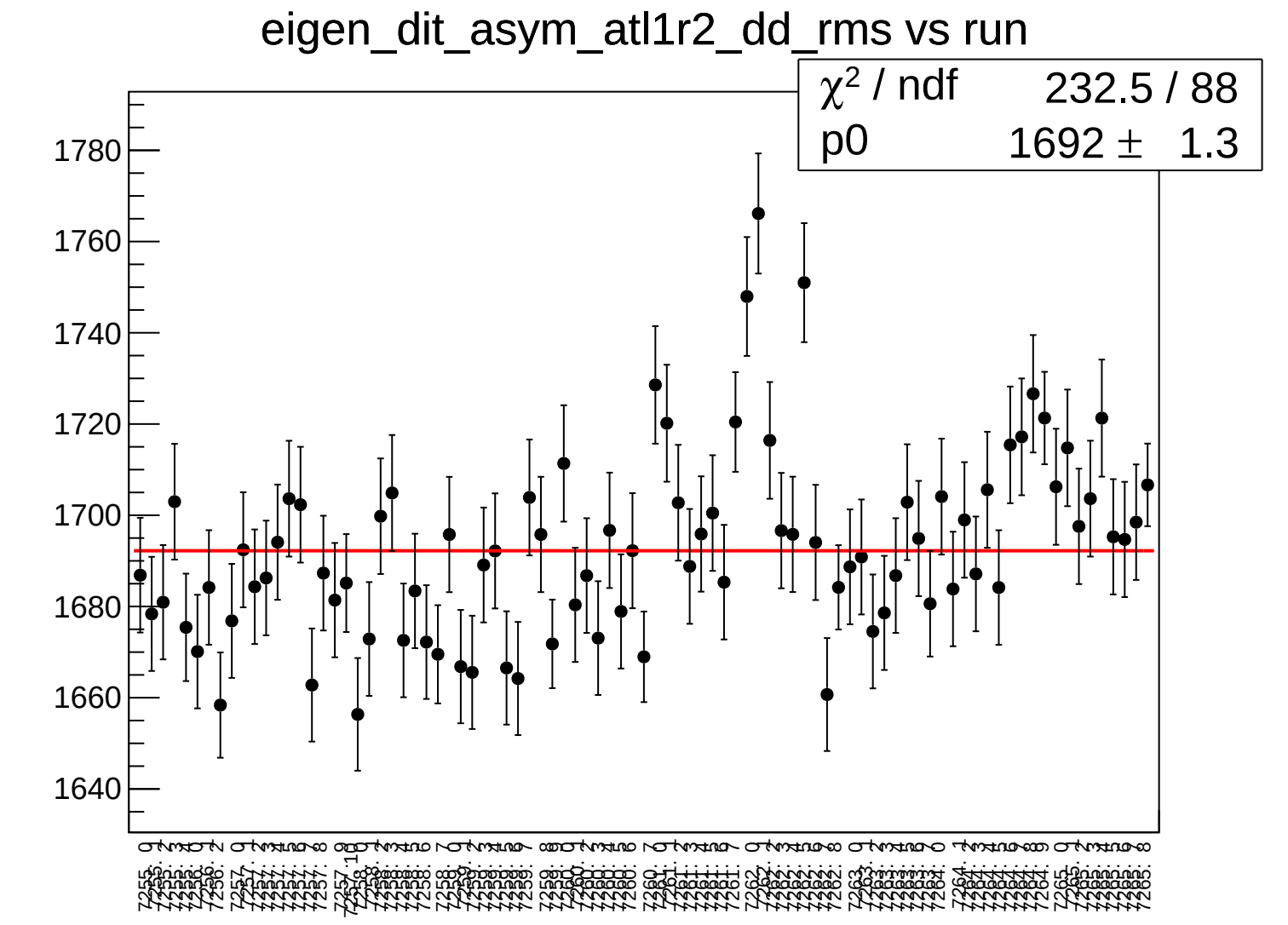

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.83 / 88
p0 −3483 ± 4878
pull
Entries 89
Mean 1111
Std Dev 0

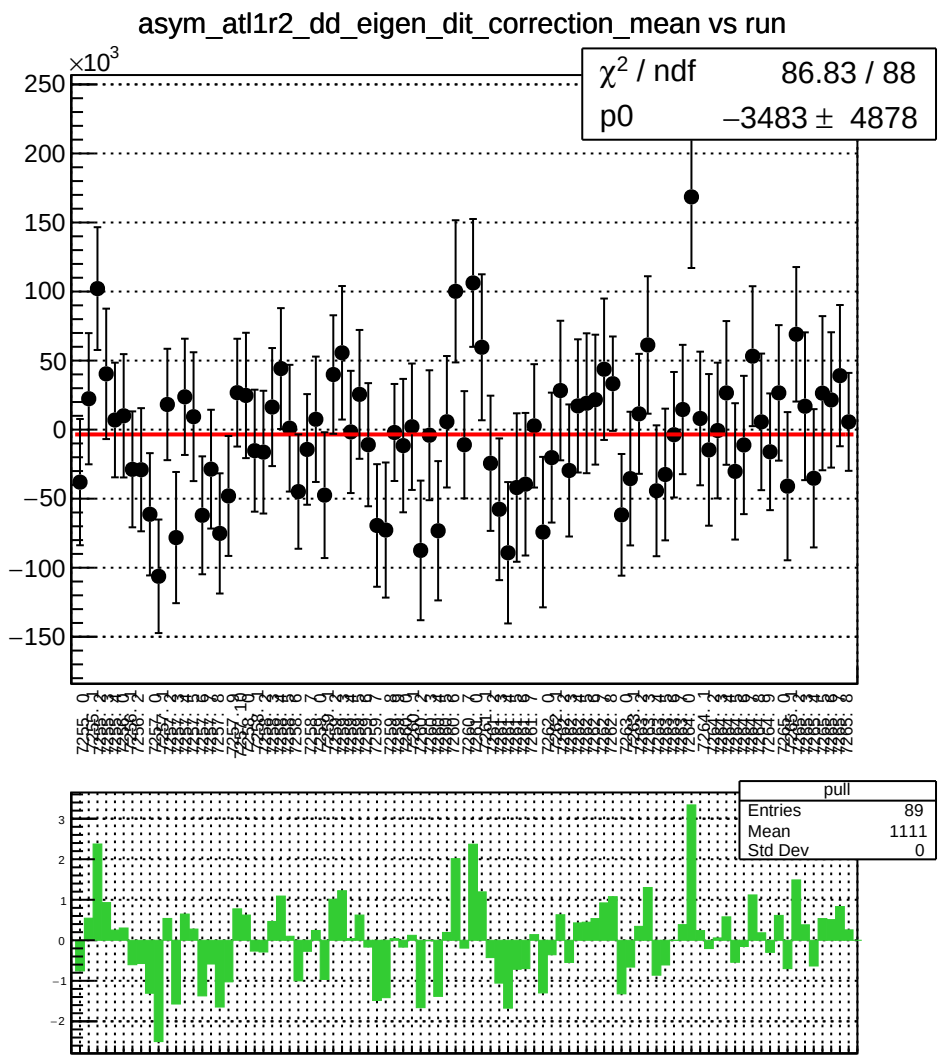

pull1D
Entries 89
Mean 0.004083
Std Dev 0.9877

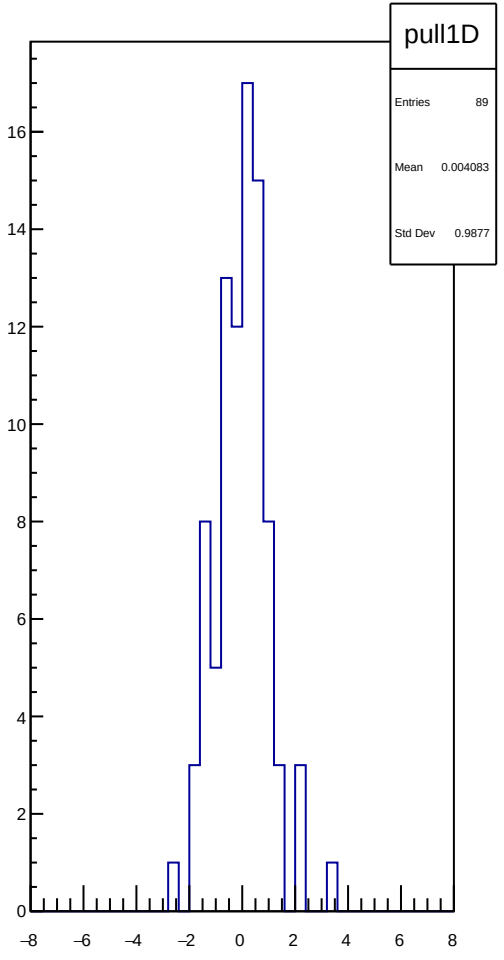

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 8893 / 88
p0 4479 ± 3.449
5400
5200
5000
4800
4600
4400
4200
4000
3800

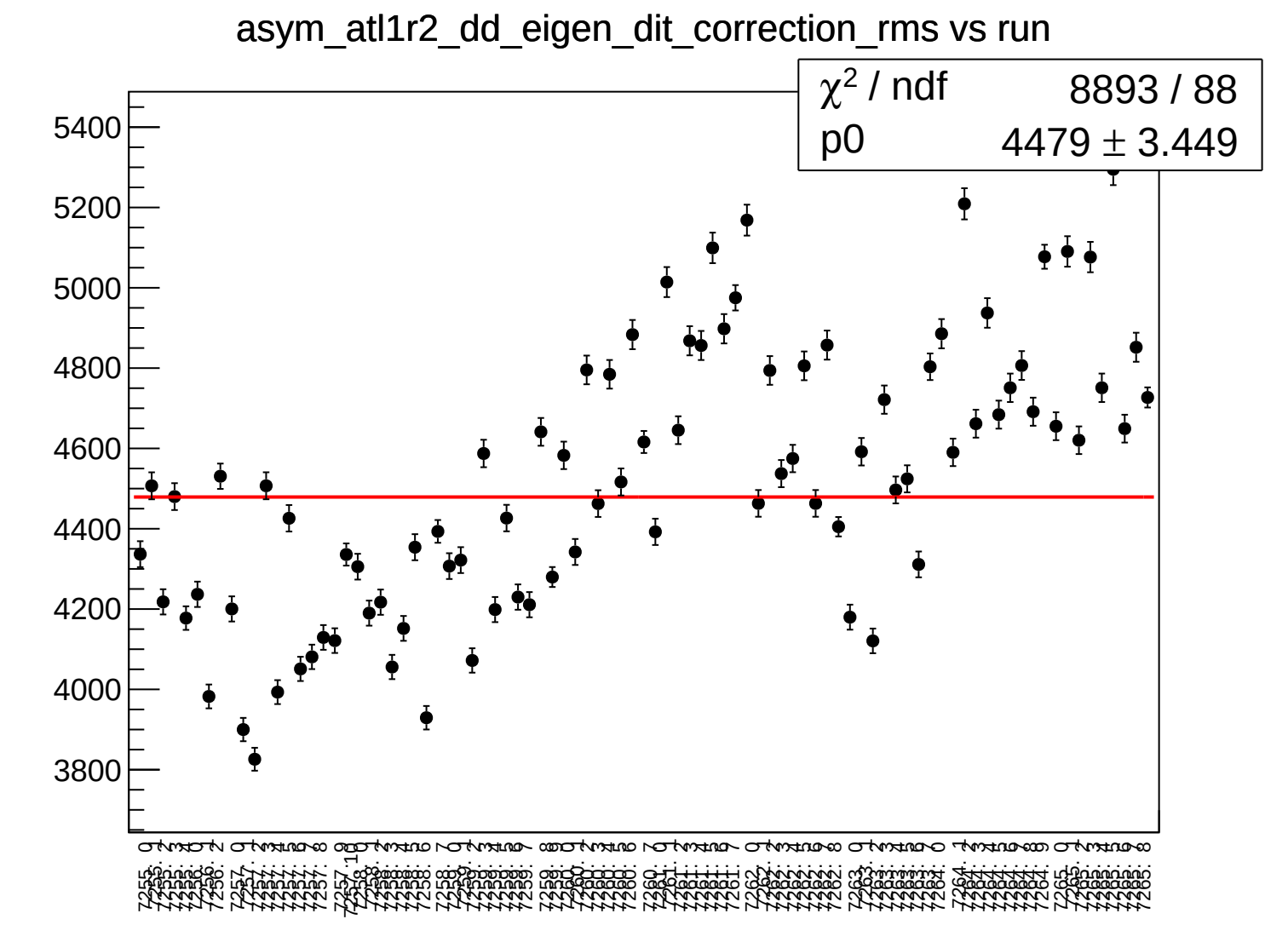

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 87.92 / 88
p0 1146 ± 1838
pull
Entries 89
Mean 58.19
Std Dev 0

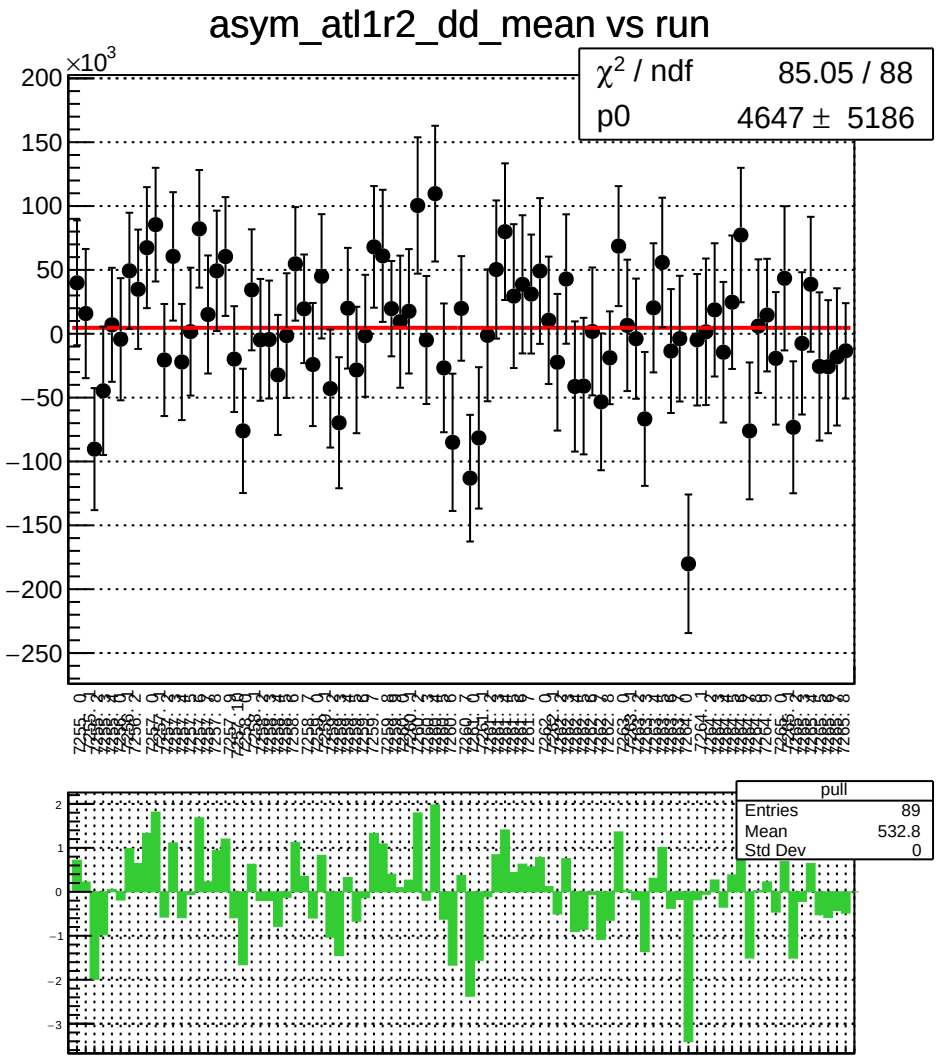

pull1D
Entries 89
Mean −0.01294
Std Dev 0.9938

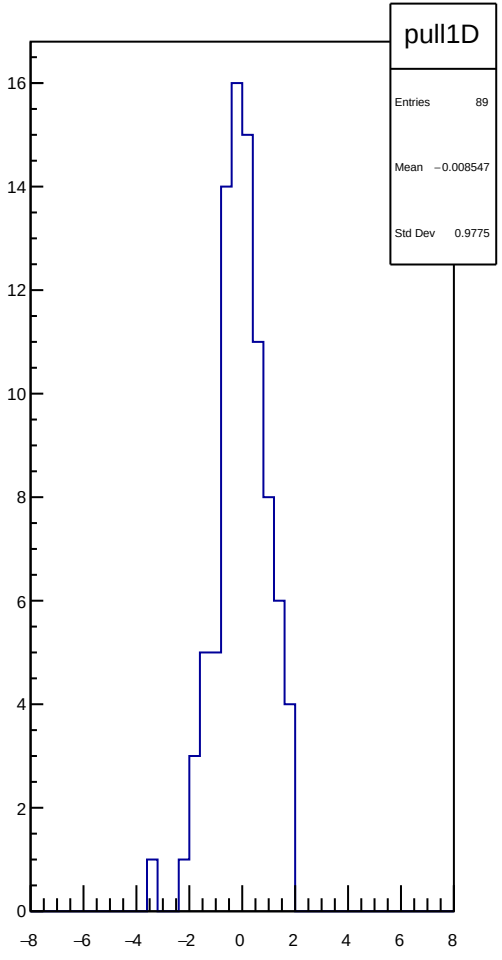

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 232.5 / 88
p0 1692 ± 1.3
1780
1760
1740
1720
1700
1680
1660
1640

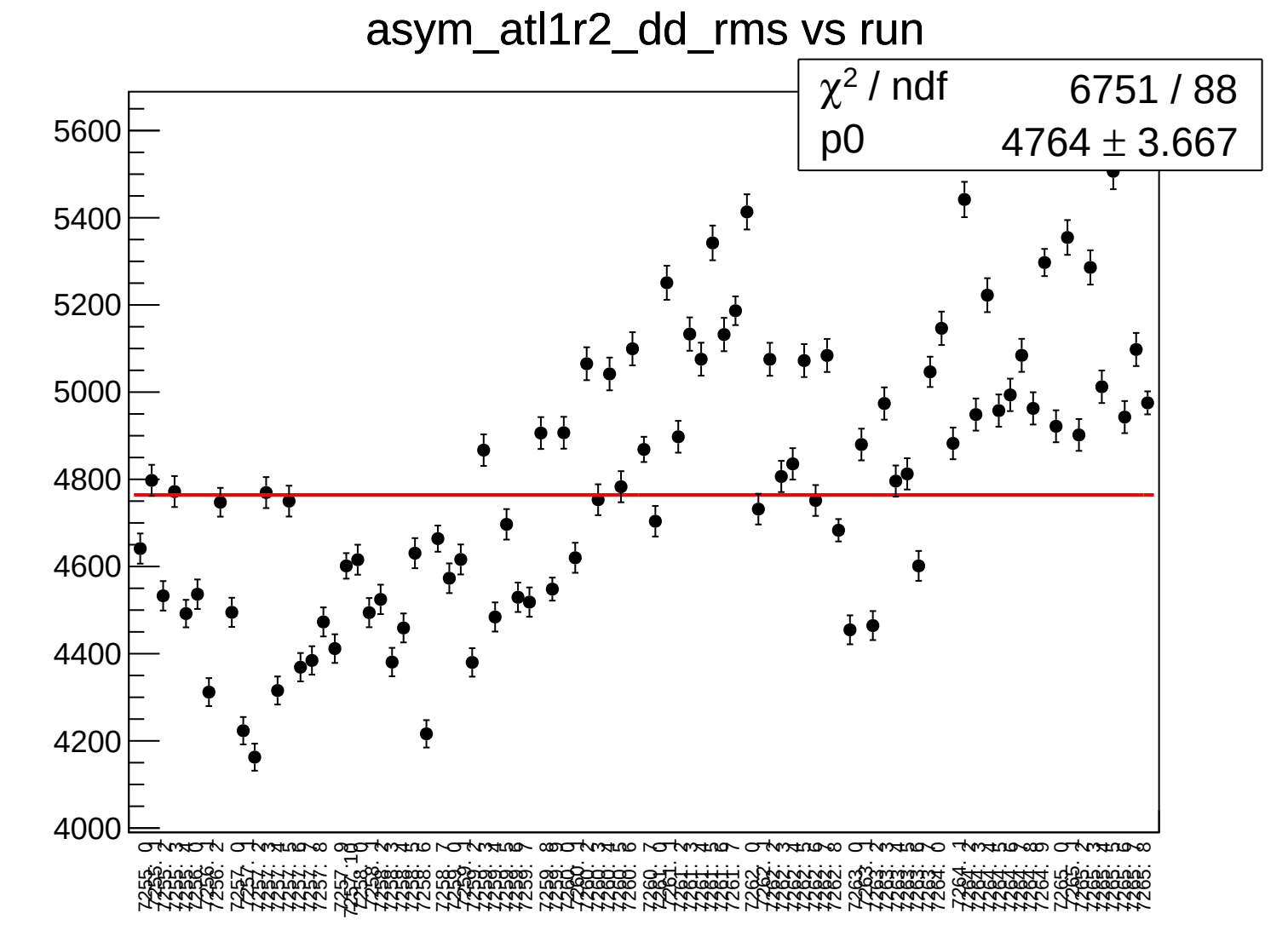

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.83 / 88
p0 −3483 ± 4878
pull
Entries 89
Mean 1111
Std Dev 0

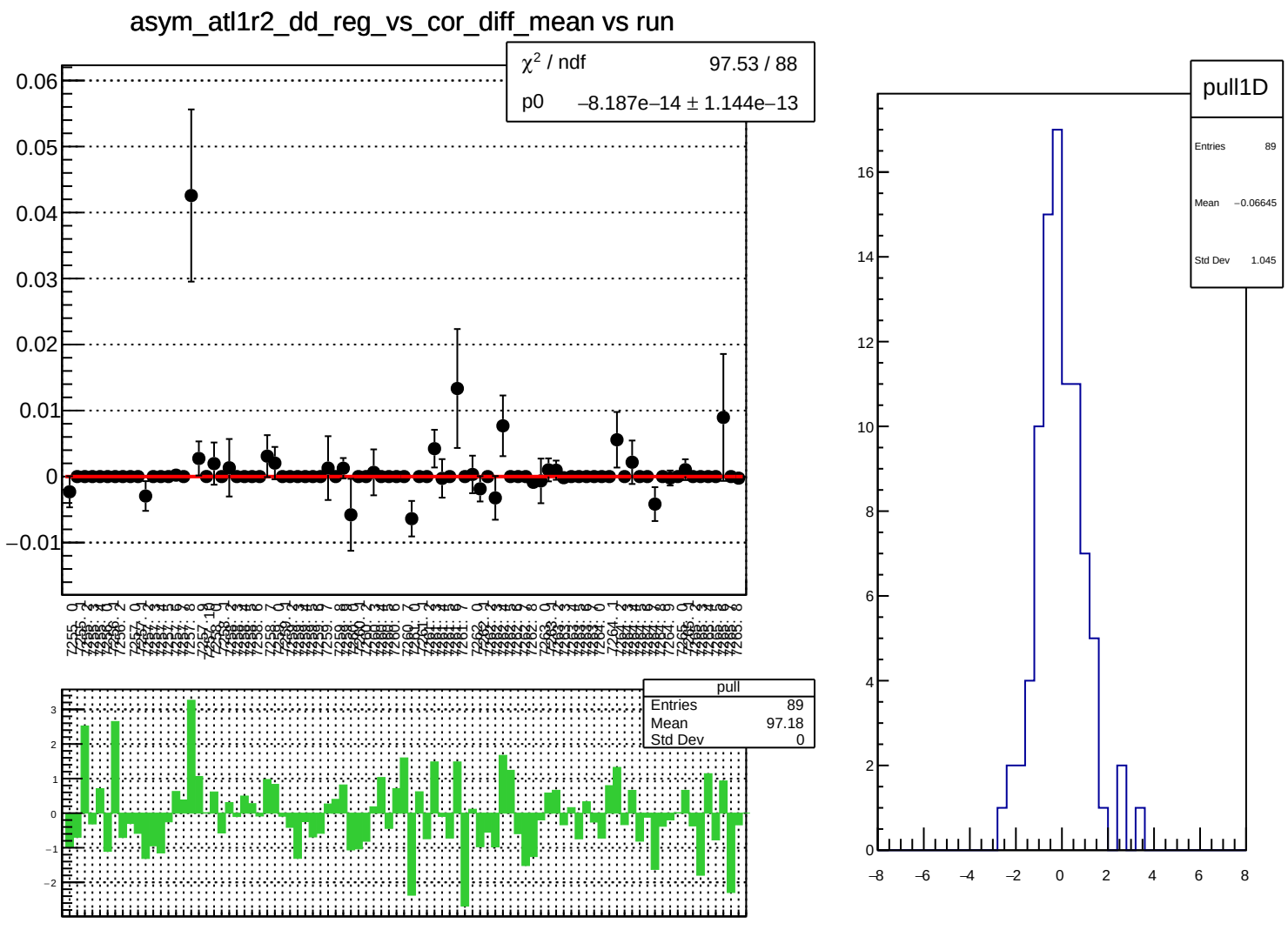

pull1D
Entries 89
Mean 0.004083
Std Dev 0.9877

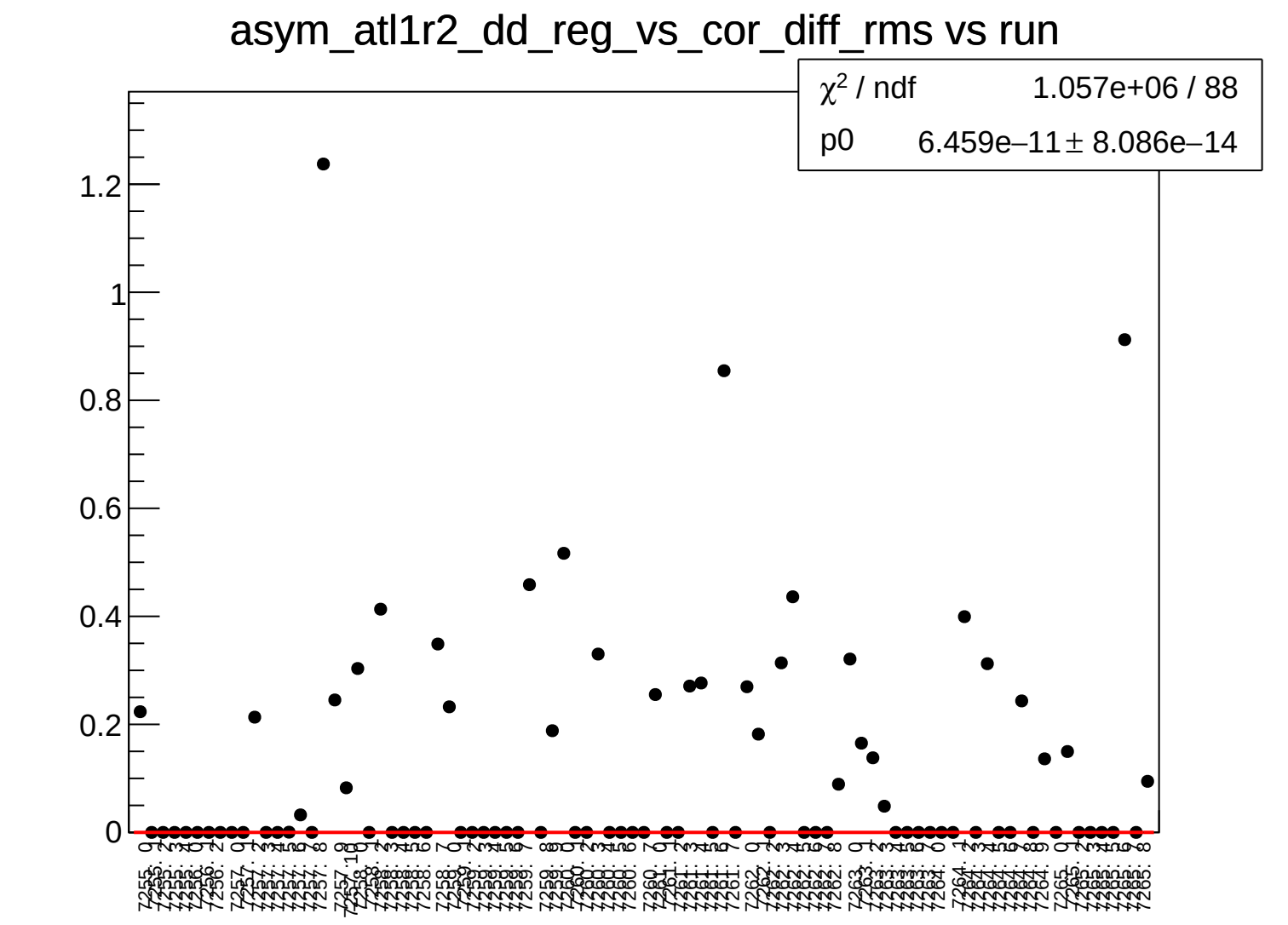

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 8893 / 88
p0 4479 ± 3.449
5400
5200
5000
4800
4600
4400
4200
4000
3800

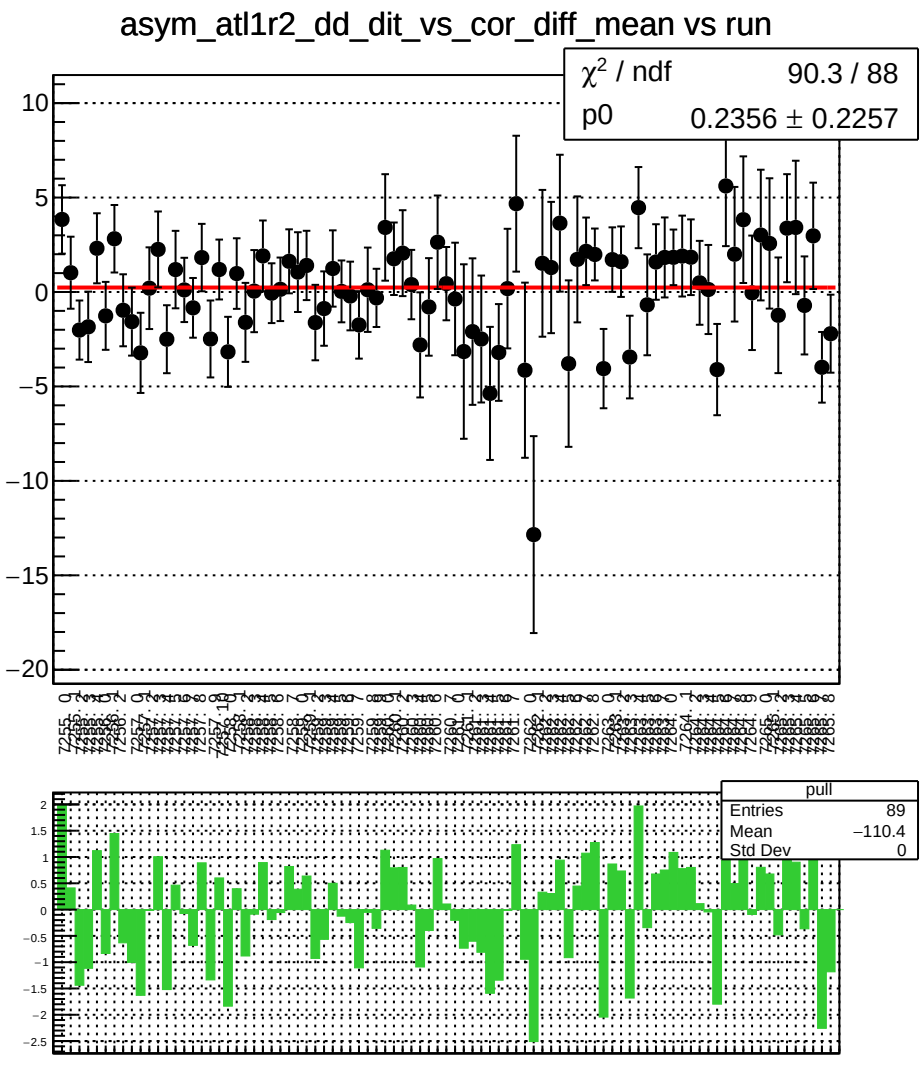

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 85.05 / 88
p0 4647 ± 5186
pull
Entries 89
Mean 532.8
Std Dev 0

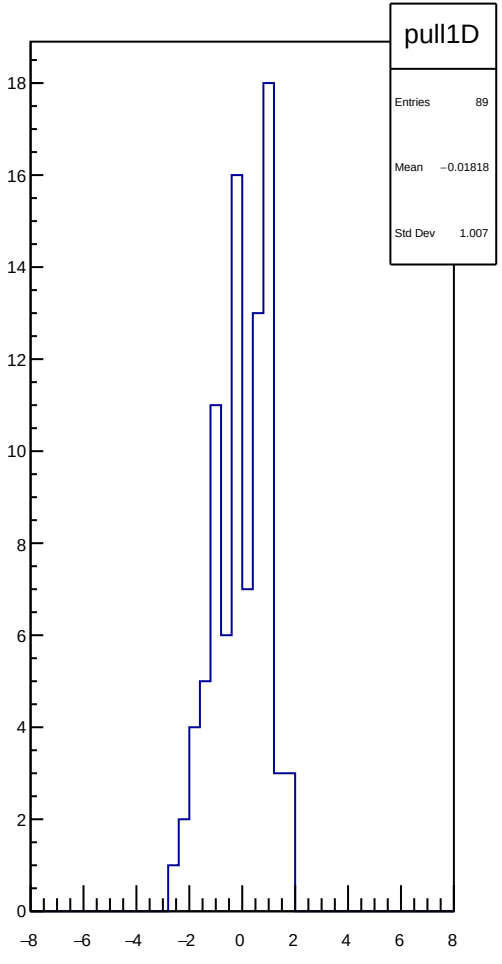

pull1D
Entries 89
Mean −0.008547
Std Dev 0.9775

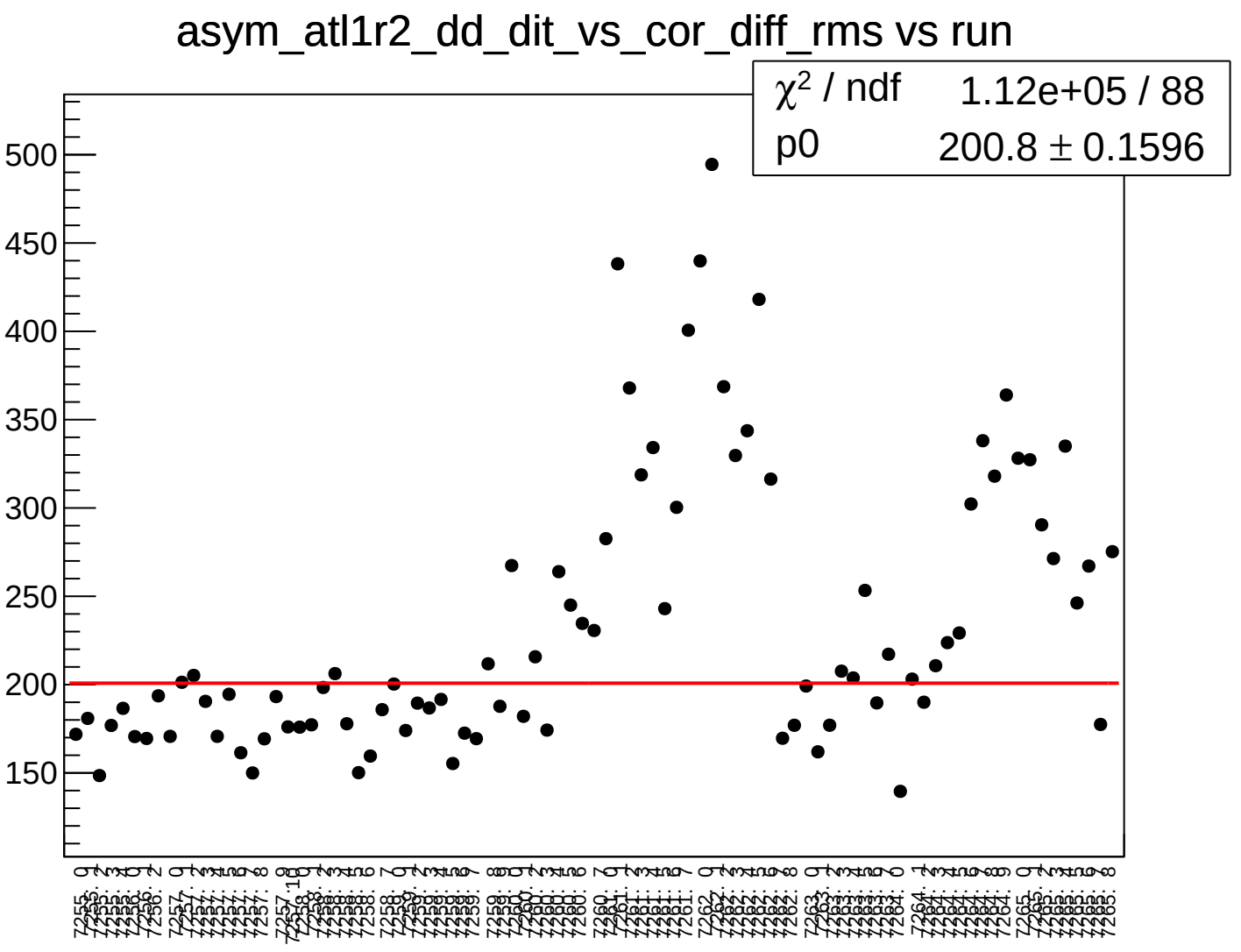

asym_atl1r2_dd_rms vs run
χ² / ndf 6751 / 88
p0 4764 ± 3.667
5600
5400
5200
5000
4800
4600
4400
4200
4000

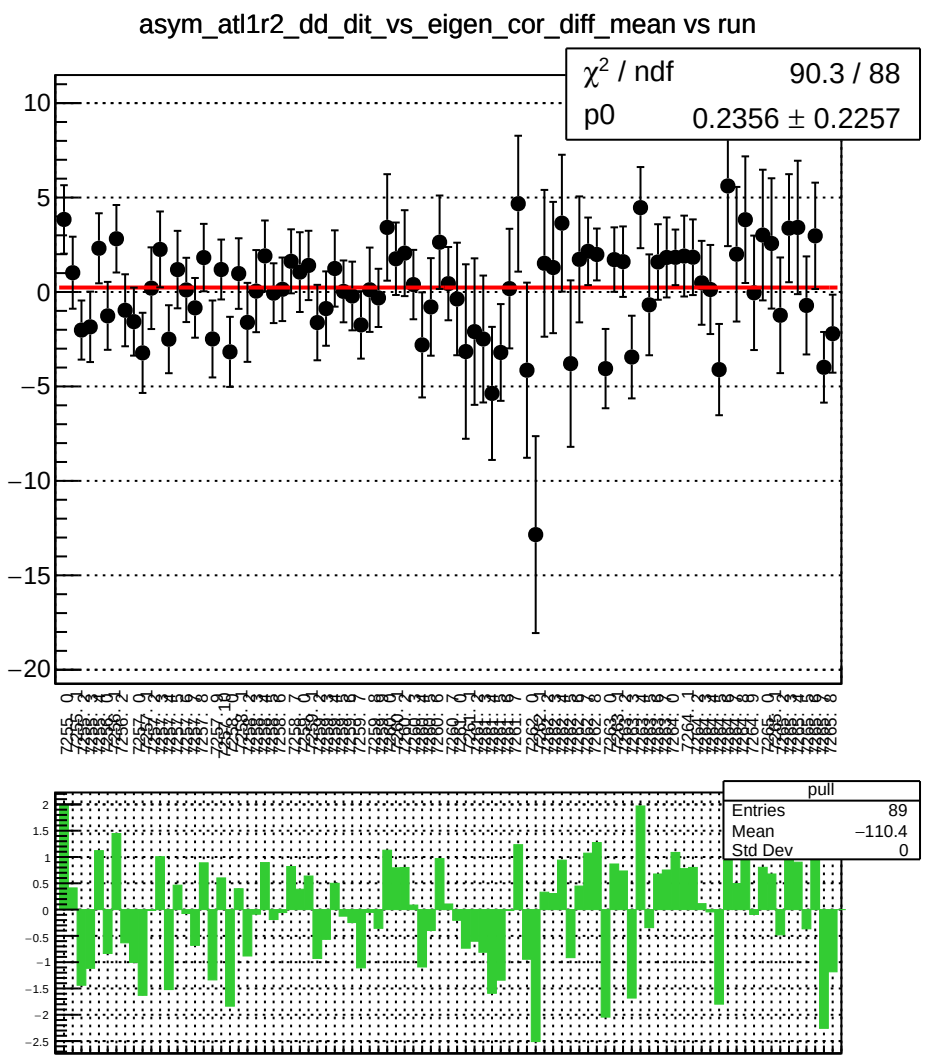

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.53 / 88
p0 −8.187e−14 ± 1.144e−13
pull
Entries 89
Mean 97.18
Std Dev 0
pull1D
Entries 89
Mean −0.06645
Std Dev 1.045

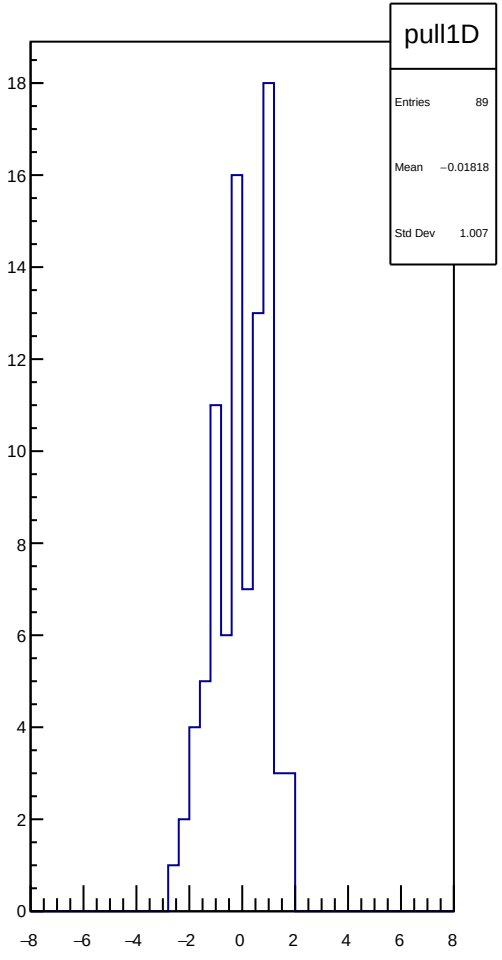

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.057e+06 / 88
p0 6.459e−11 ± 8.086e−14
1.2
1
0.8
0.6
0.4
0.2
0

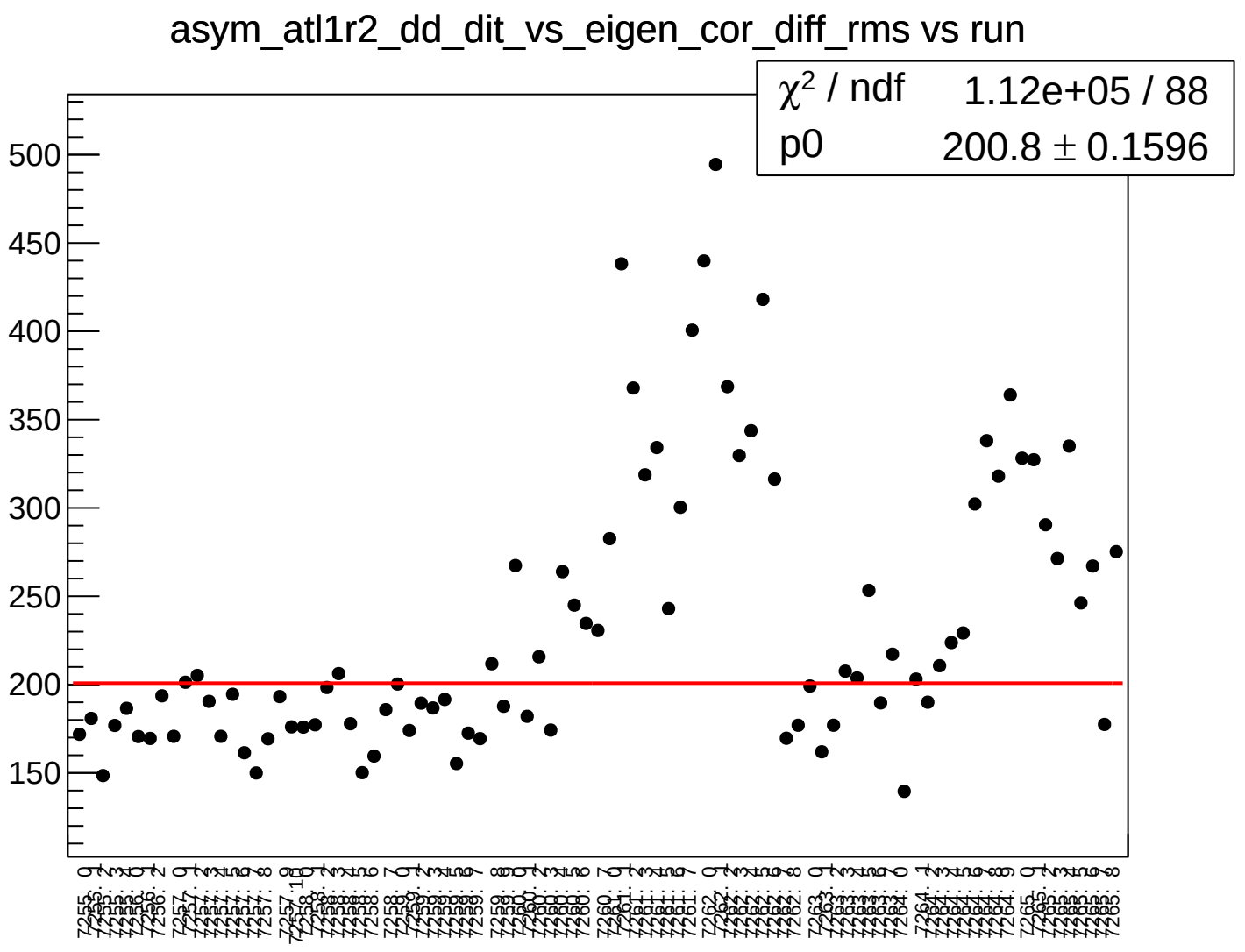

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.3 / 88
p0 0.2356 ± 0.2257
pull
Entries 89
Mean −110.4
Std Dev 0

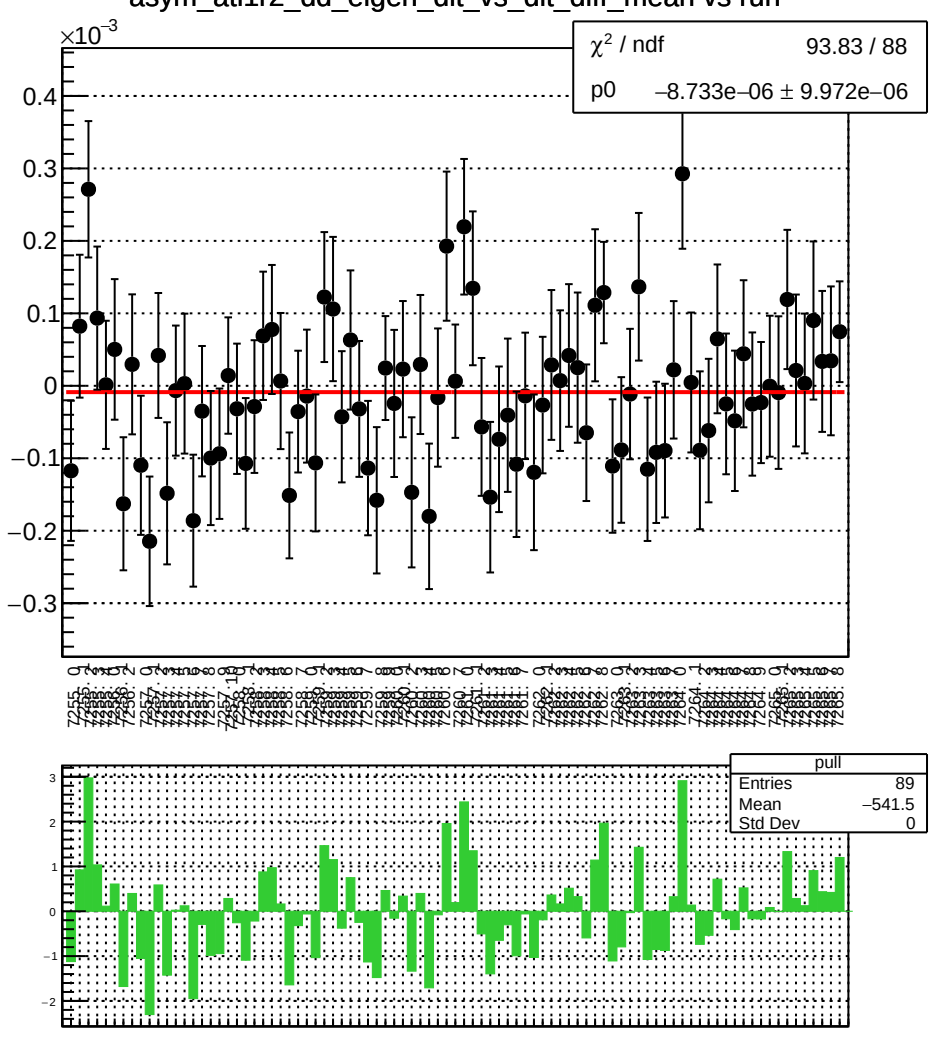

pull1D
Entries 89
Mean −0.01818
Std Dev 1.007

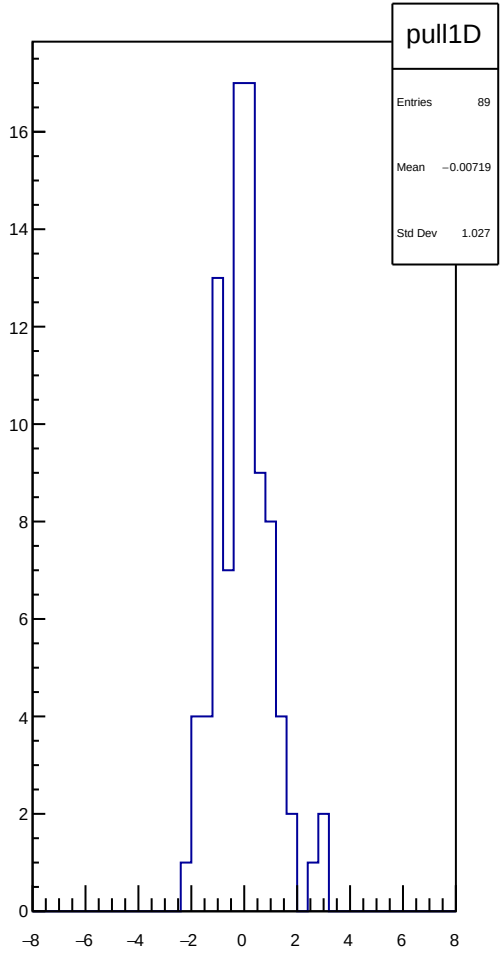

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.12e+05 / 88
p0 200.8 ± 0.1596
500
450
400
350
300
250
200
150

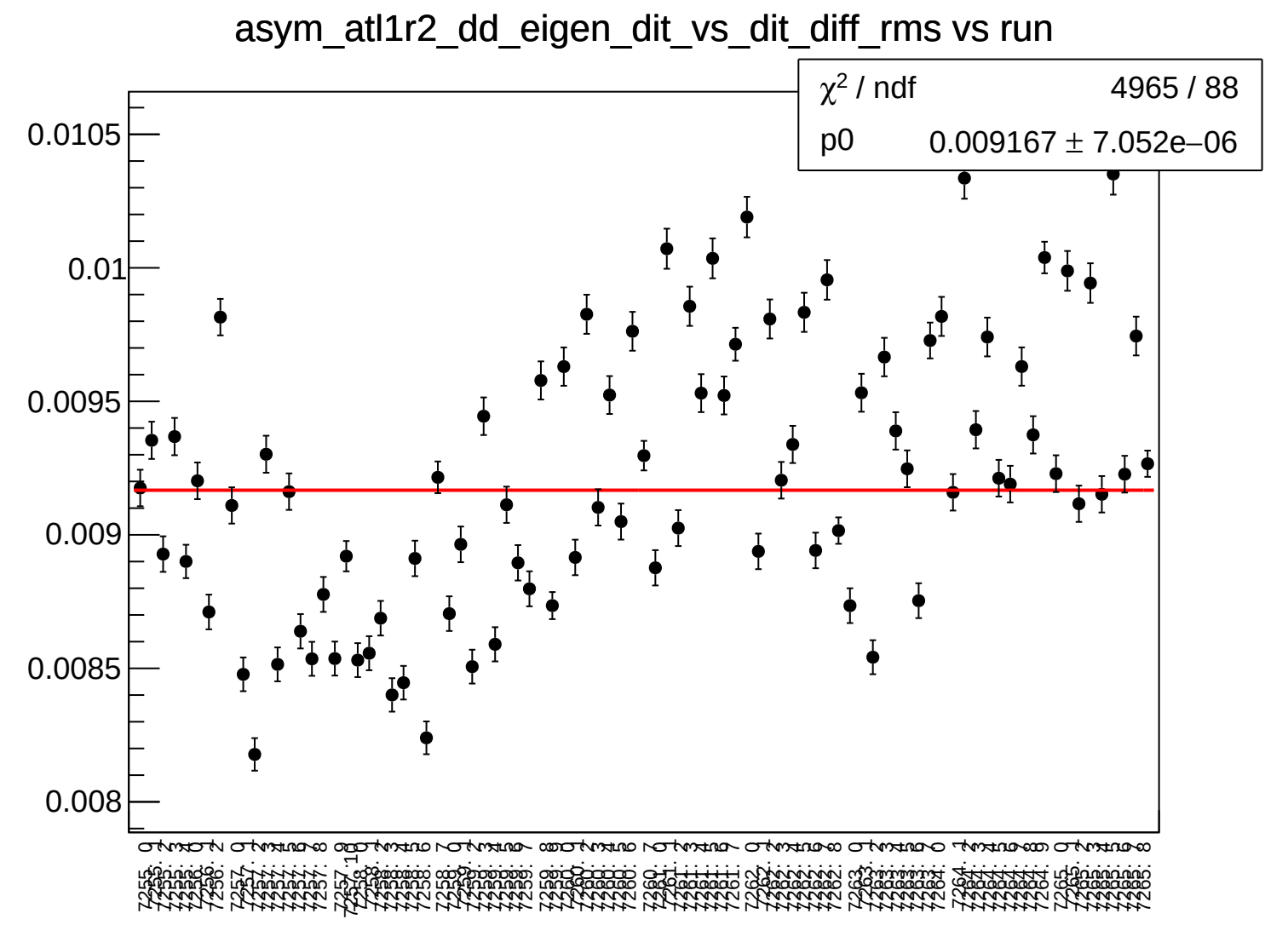

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.3 / 88
p0 0.2356 ± 0.2257
pull
Entries 89
Mean −110.4
Std Dev 0

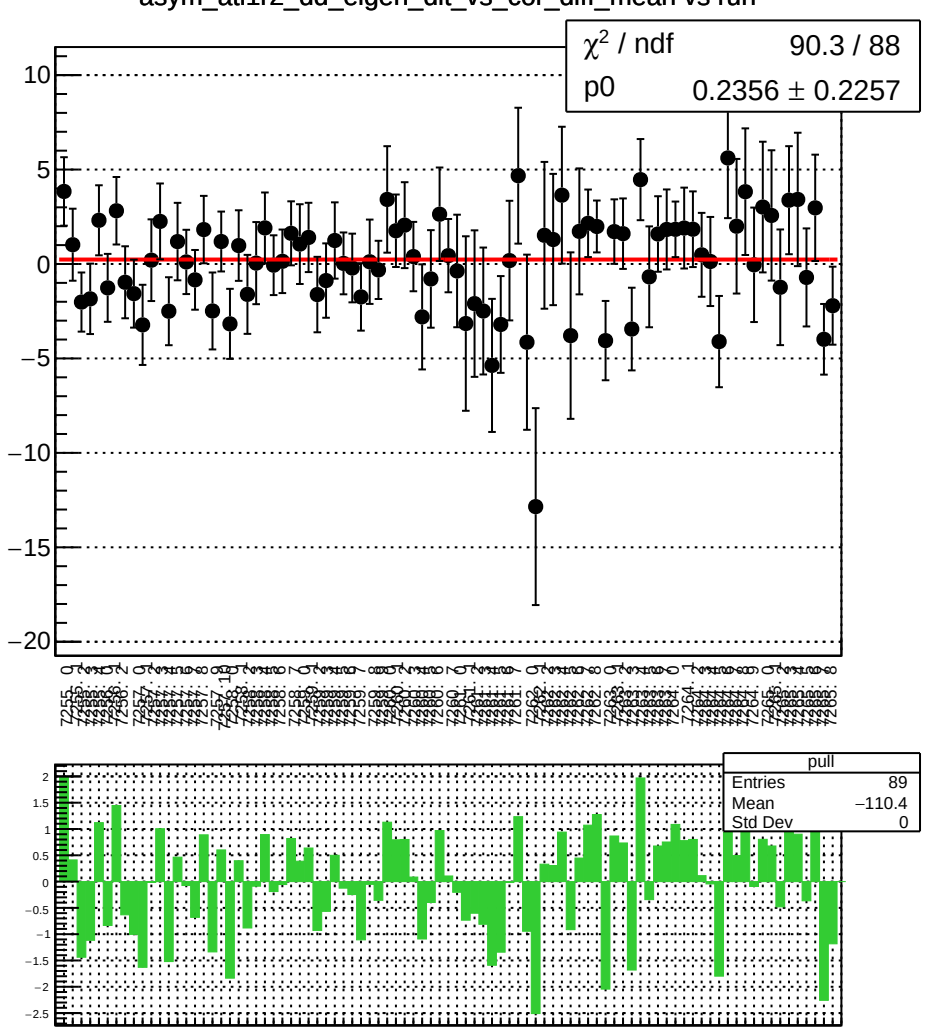

pull1D
Entries 89
Mean −0.01818
Std Dev 1.007

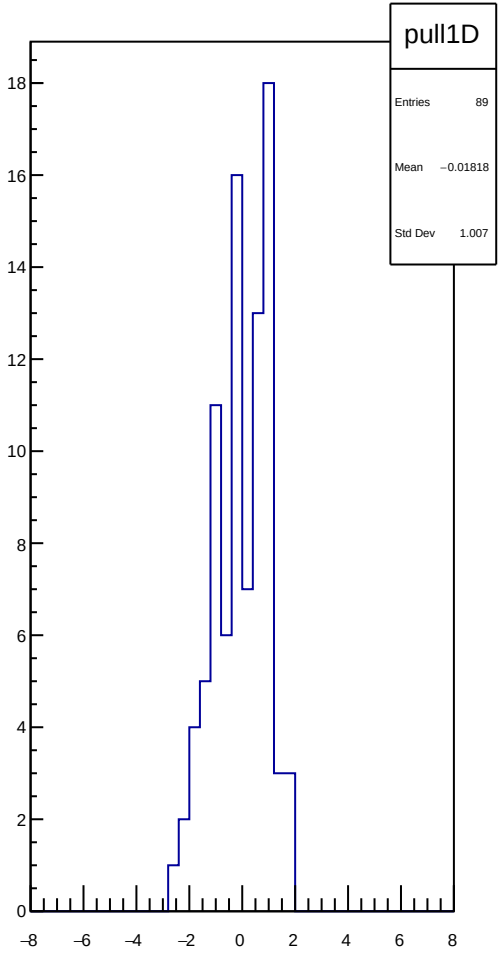

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.12e+05 / 88
p0 200.8 ± 0.1596
500
450
400
350
300
250
200
150

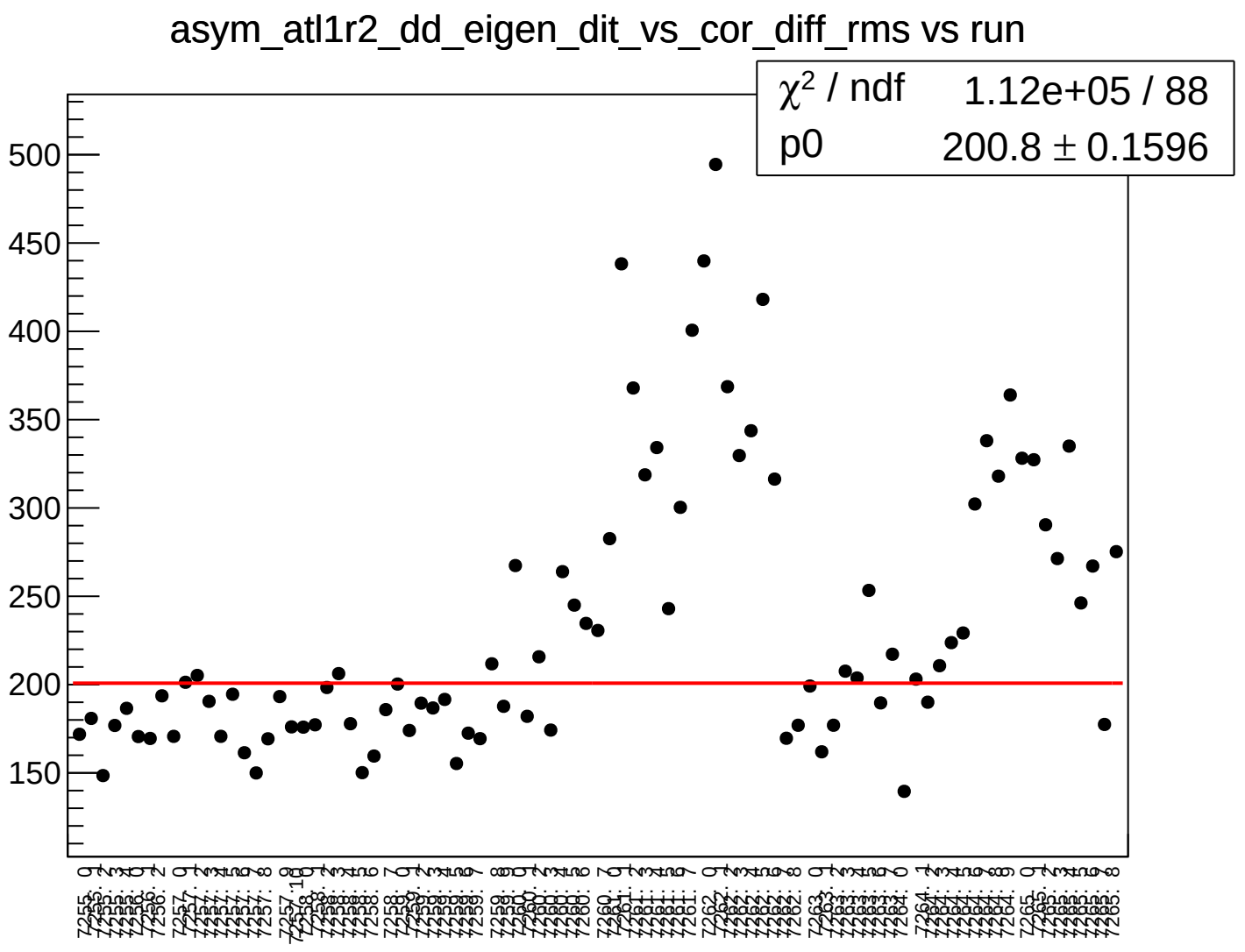

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.83 / 88
p0 −8.733e−06 ± 9.972e−06
pull
Entries 89
Mean −541.5
Std Dev 0

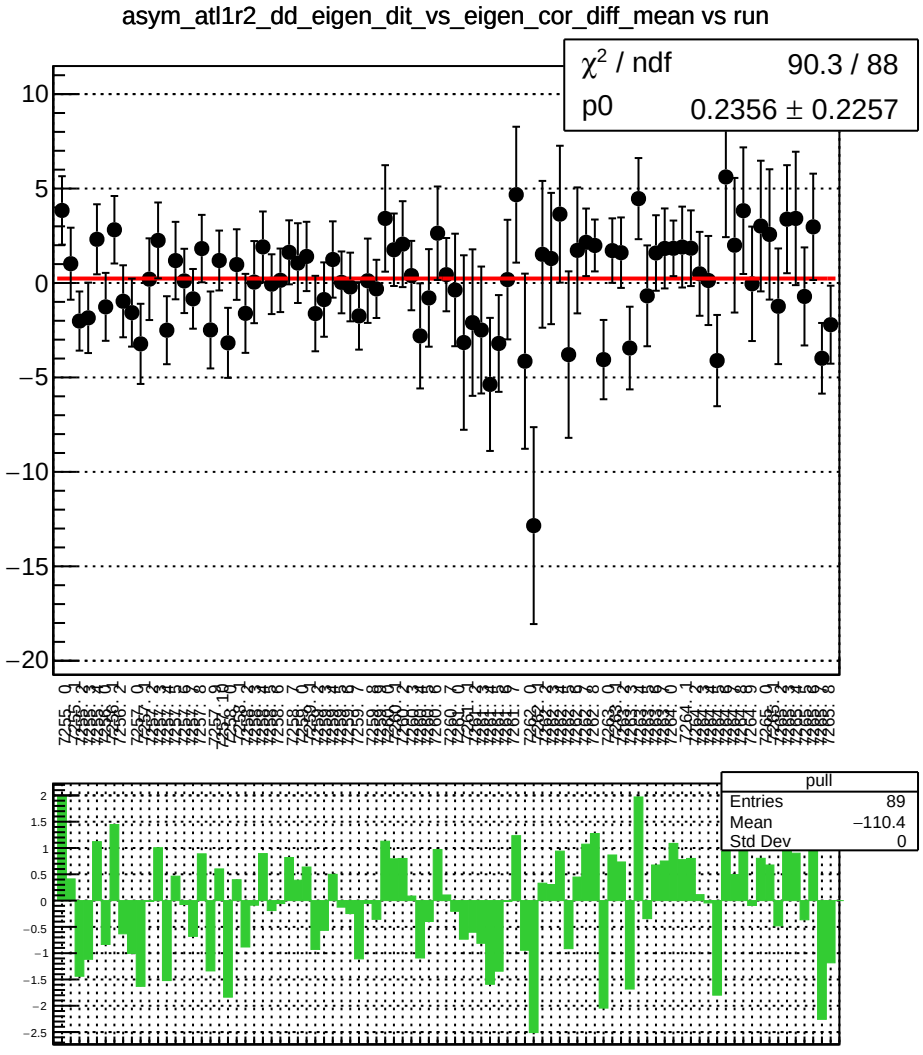

pull1D
Entries 89
Mean −0.00719
Std Dev 1.027

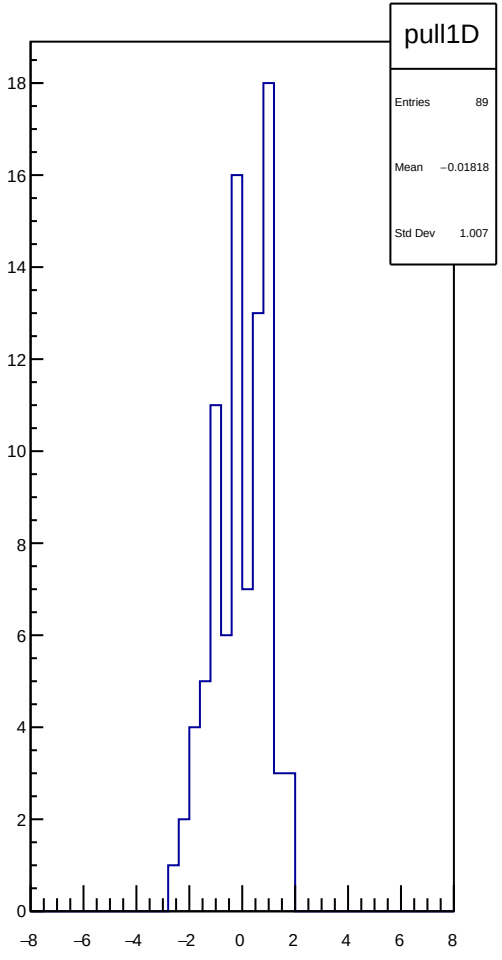

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4965 / 88
p0 0.009167 ± 7.052e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008

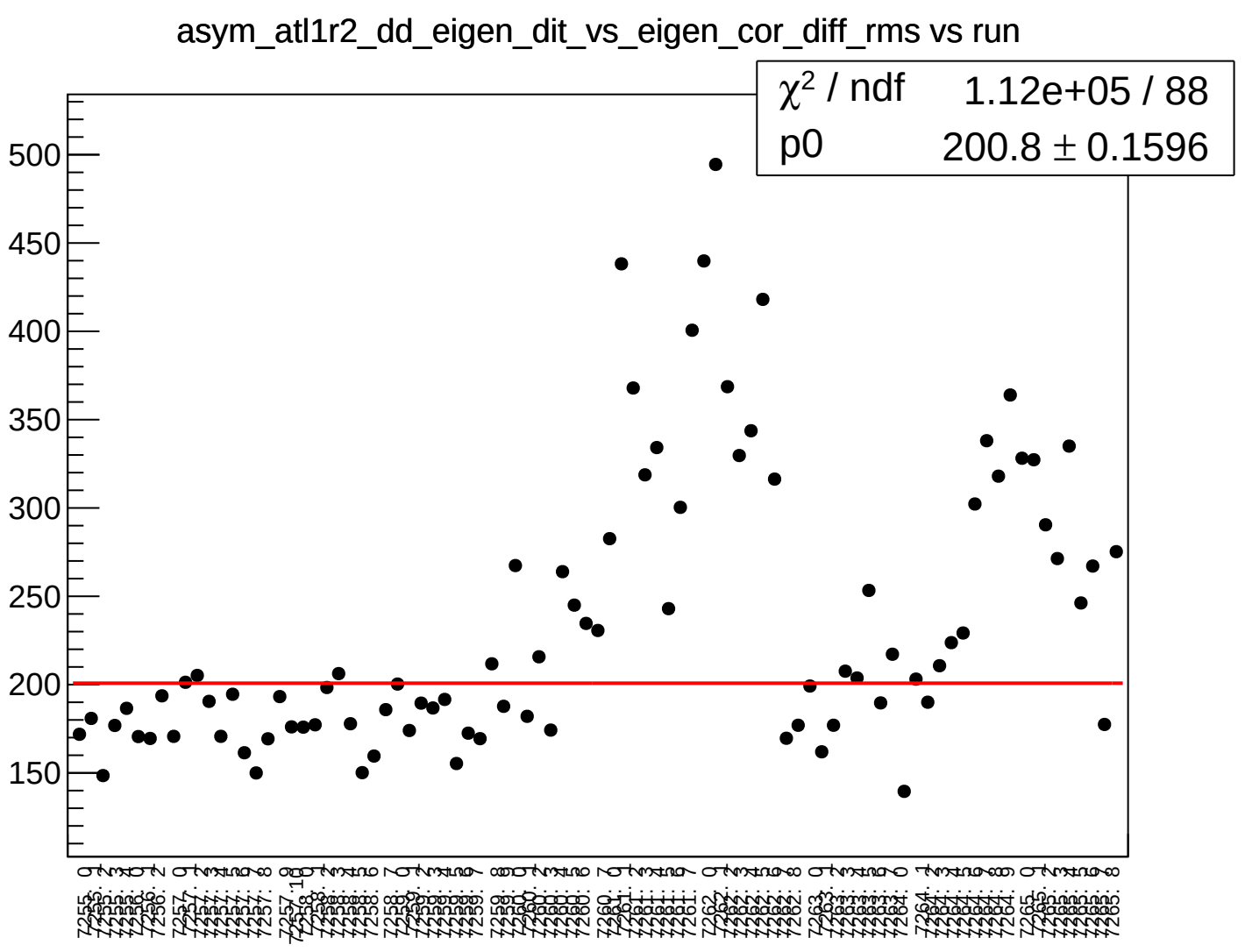

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.3 / 88
p0 0.2356 ± 0.2257
pull
Entries 89
Mean −110.4
Std Dev 0

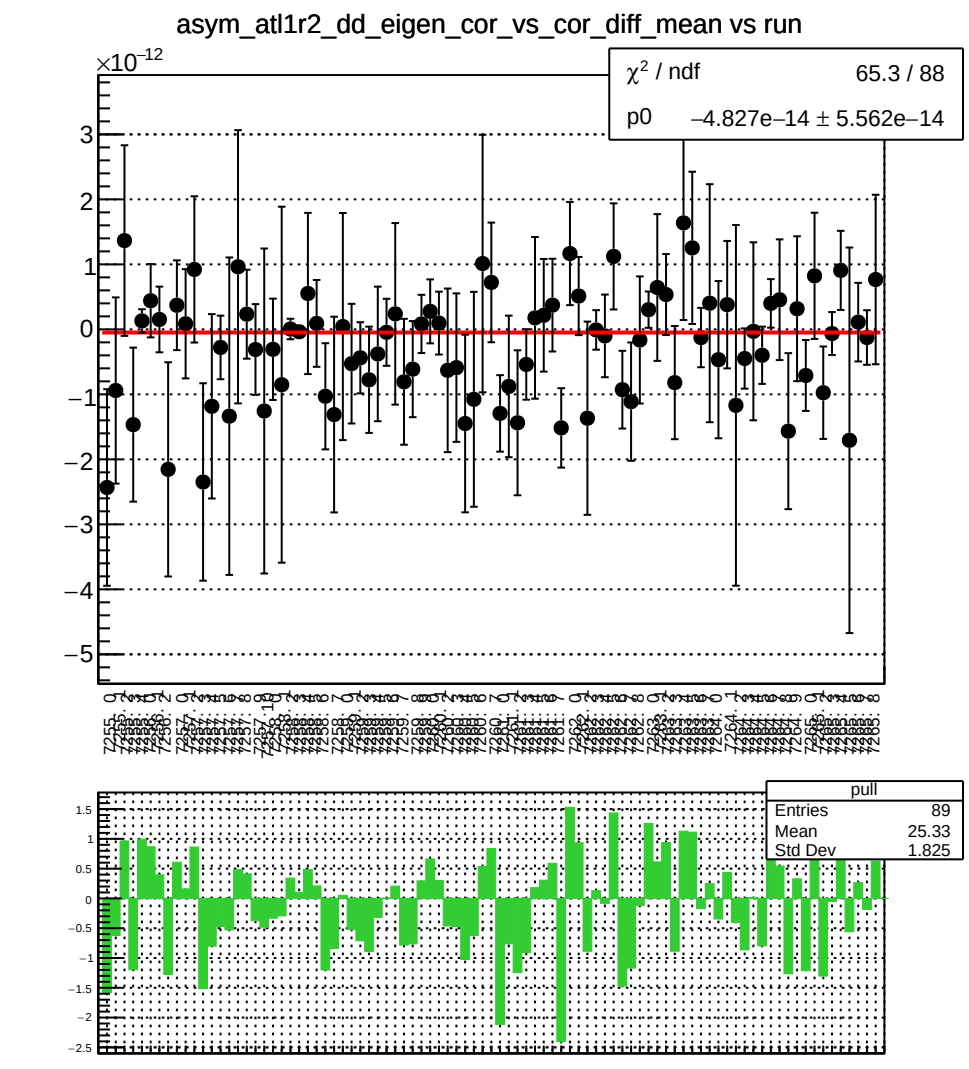

pull1D
Entries 89
Mean −0.01818
Std Dev 1.007

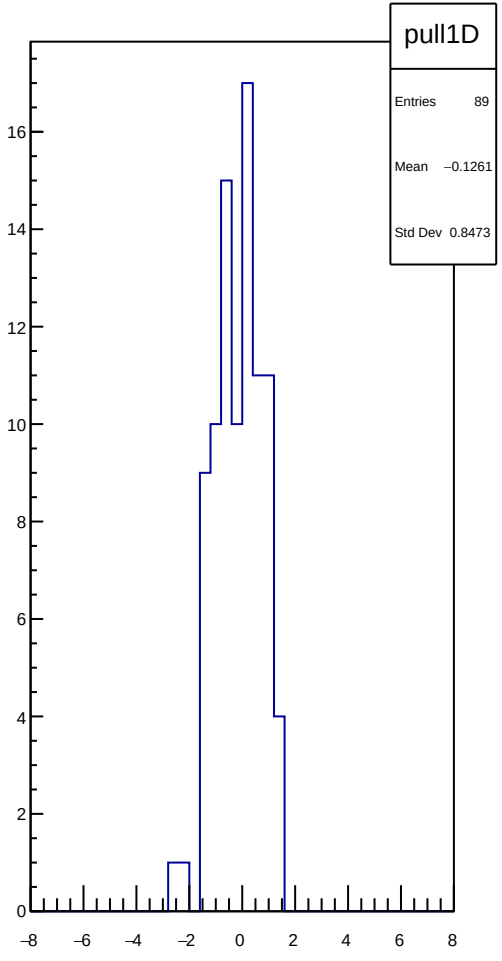

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.12e+05 / 88
p0 200.8 ± 0.1596
500
450
400
350
300
250
200
150

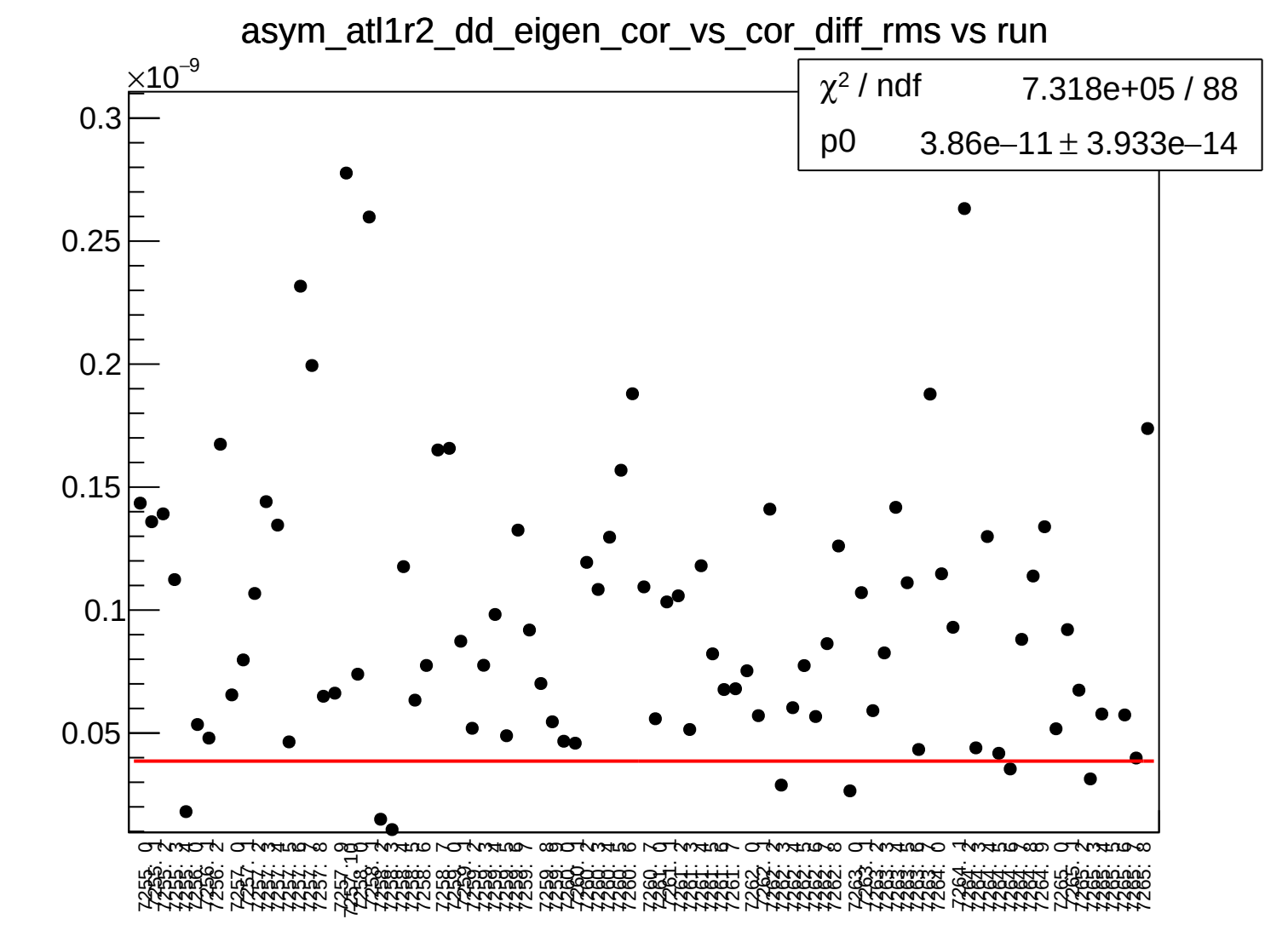

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.3 / 88
p0 0.2356 ± 0.2257
pull
Entries 89
Mean −110.4
Std Dev 0

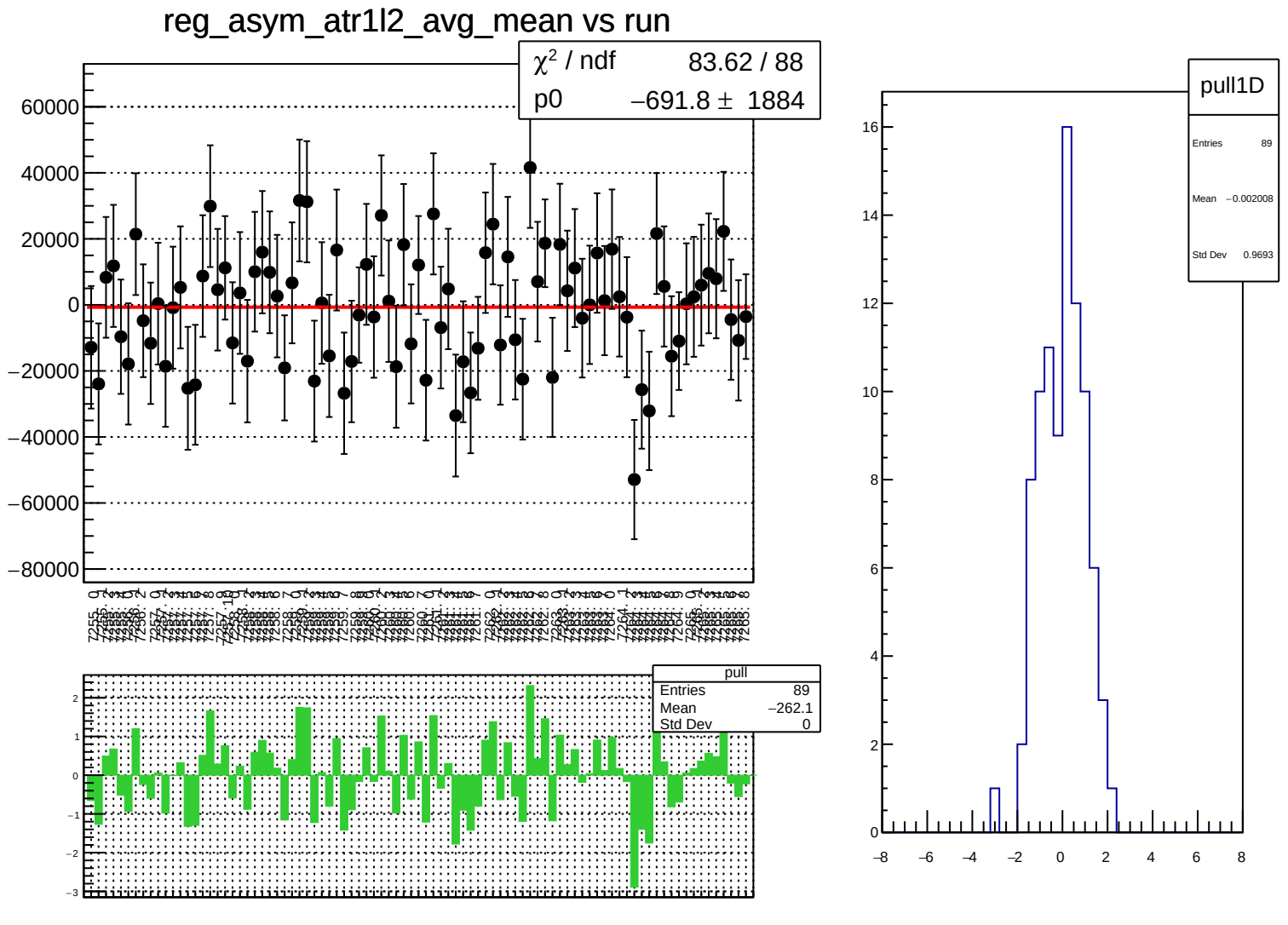

pull1D
Entries 89
Mean −0.01818
Std Dev 1.007

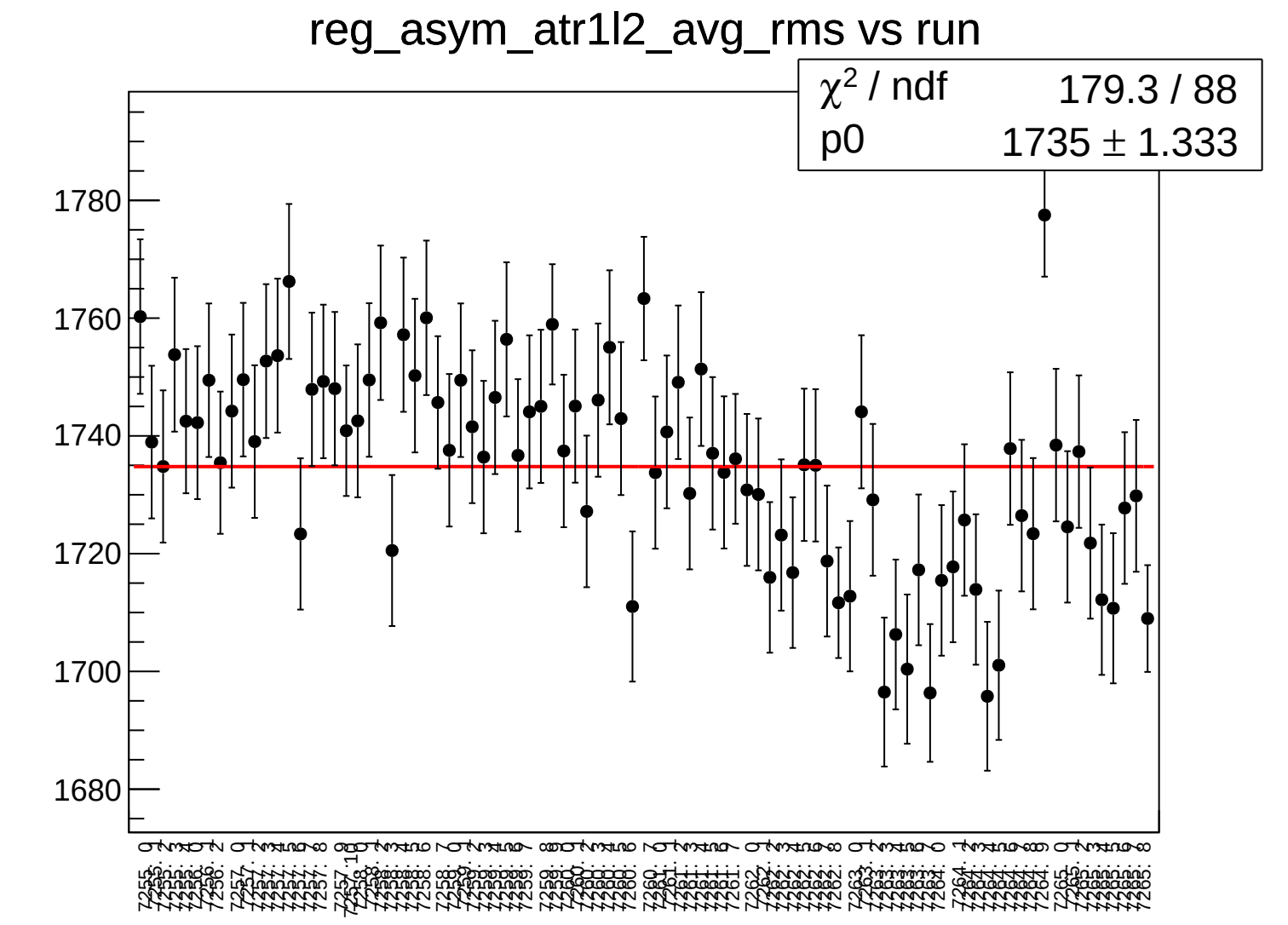

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.12e+05 / 88
p0 200.8 ± 0.1596
500
450
400
350
300
250
200
150

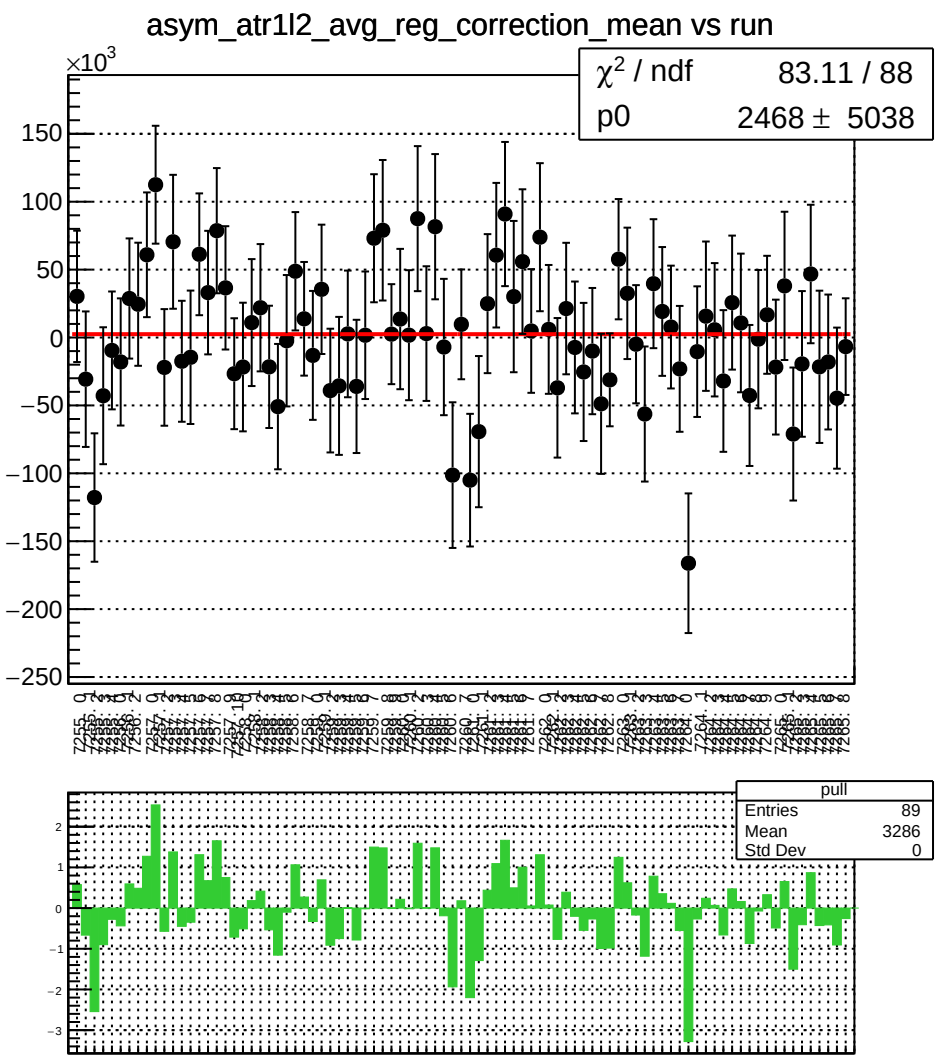

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.3 / 88
p0 −4.827e−14 ± 5.562e−14
pull
Entries 89
Mean 25.33
Std Dev 1.825

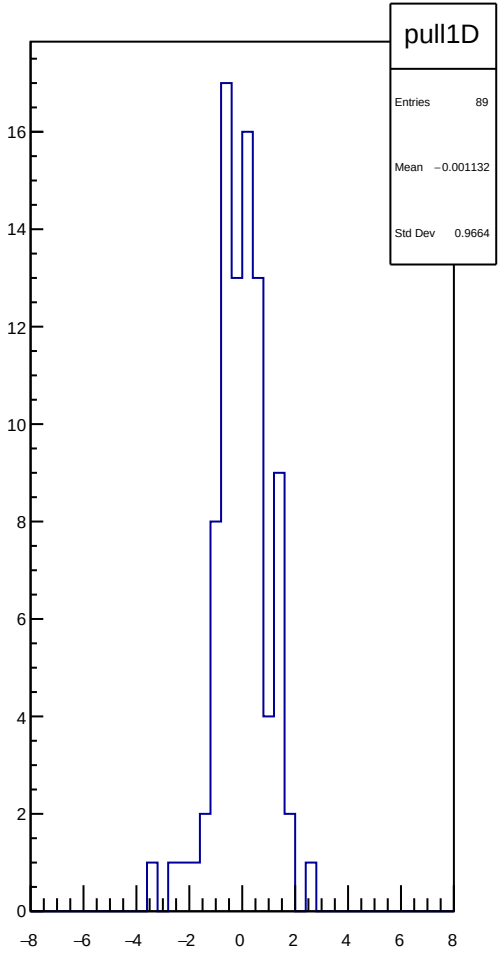

pull1D
Entries 89
Mean −0.1261
Std Dev 0.8473


asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.318e+05 / 88
p0 3.86e−11 ± 3.933e−14
0.3
0.25
0.2
0.15
0.1
0.05


reg_asym_atr1l2_avg_mean vs run
χ² / ndf 83.62 / 88
p0 −691.8 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −262.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.002008
Std Dev 0.9693
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_avg_rms vs run
χ² / ndf 179.3 / 88
p0 1735 ± 1.333
1780
1760
1740
1720
1700
1680


asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 83.11 / 88
p0 2468 ± 5038
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean 3286
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 89
Mean −0.001132
Std Dev 0.9664
16
14
12
10
8
6
4
2
0
−8
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−4
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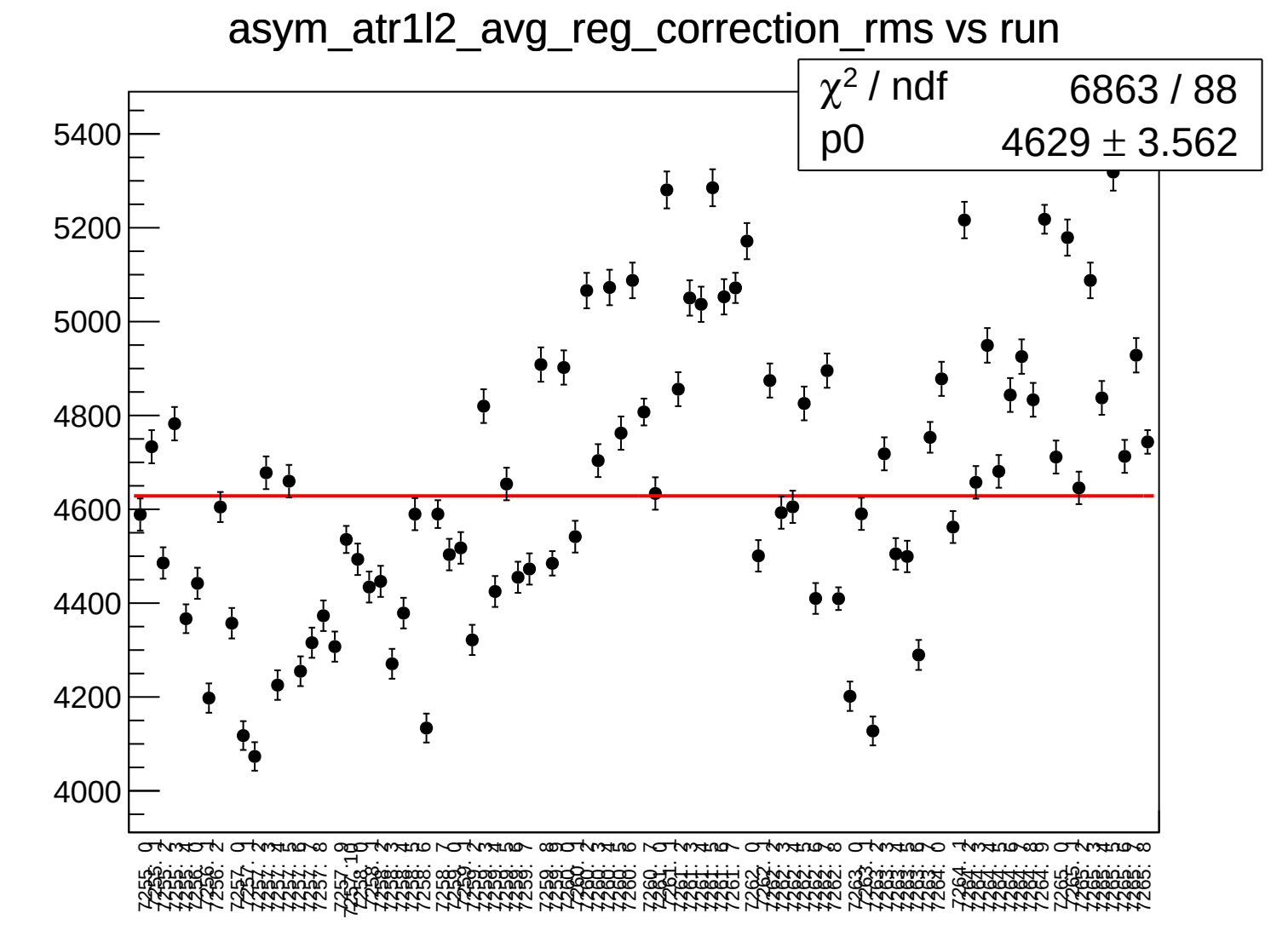
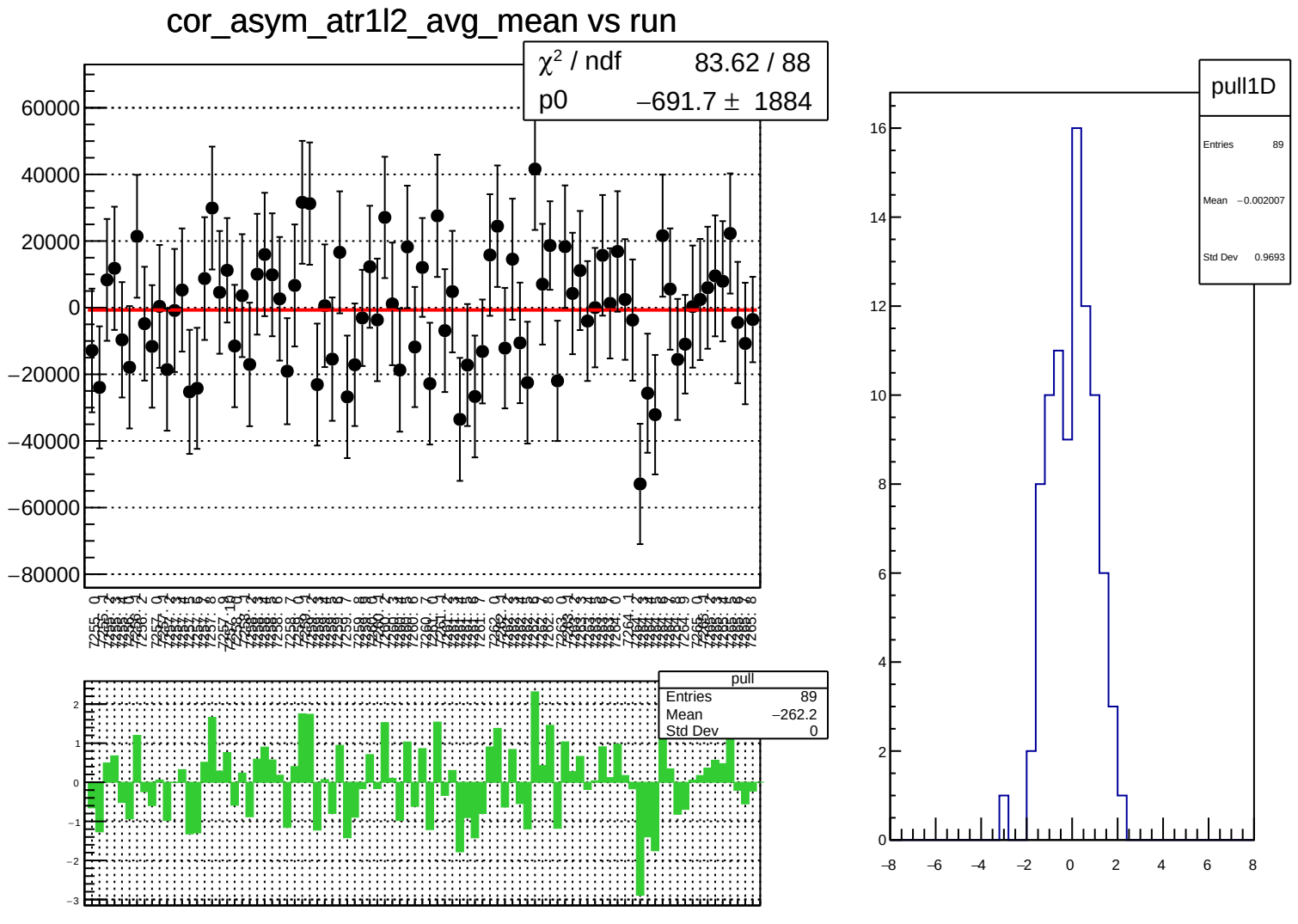
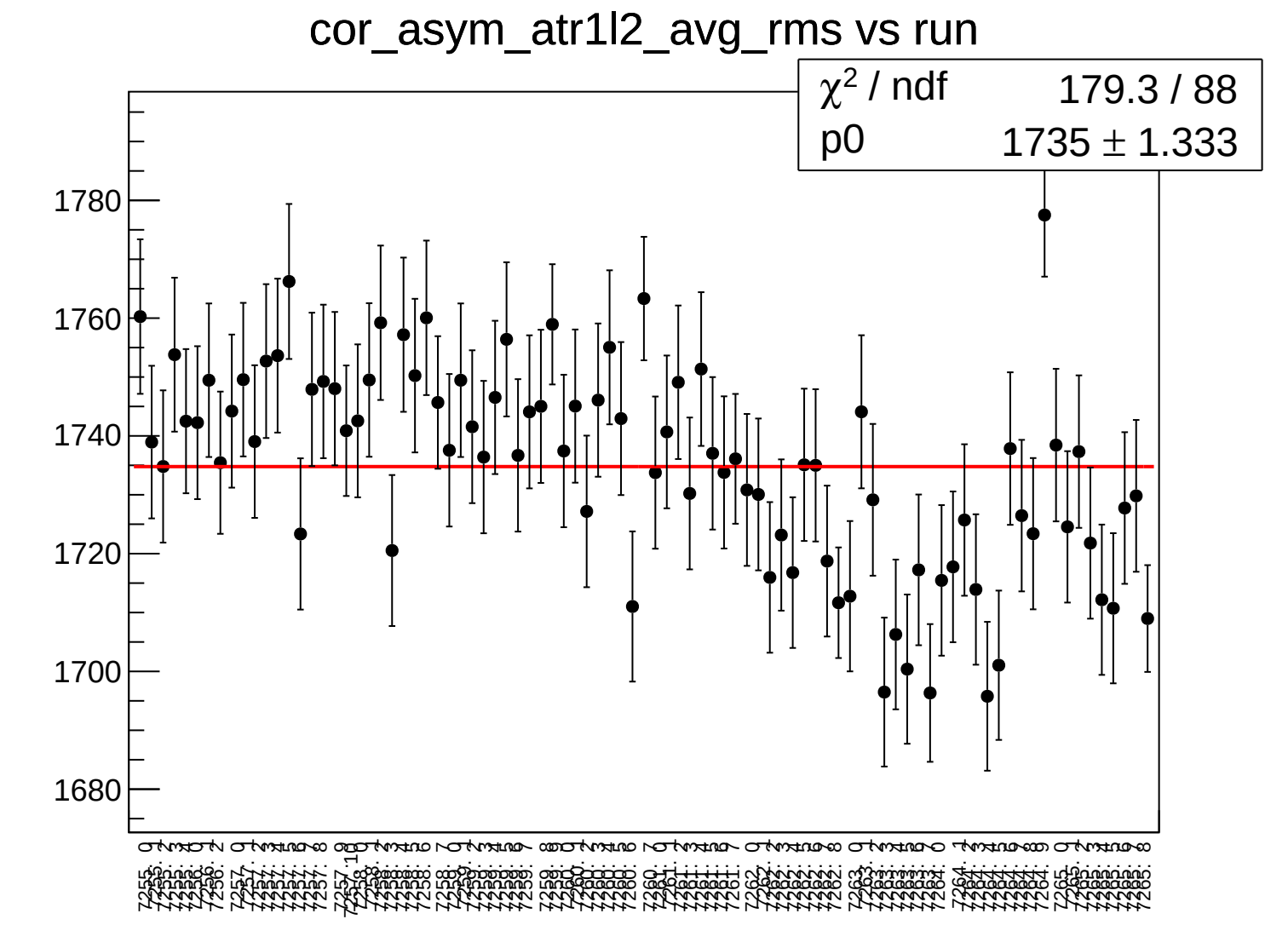
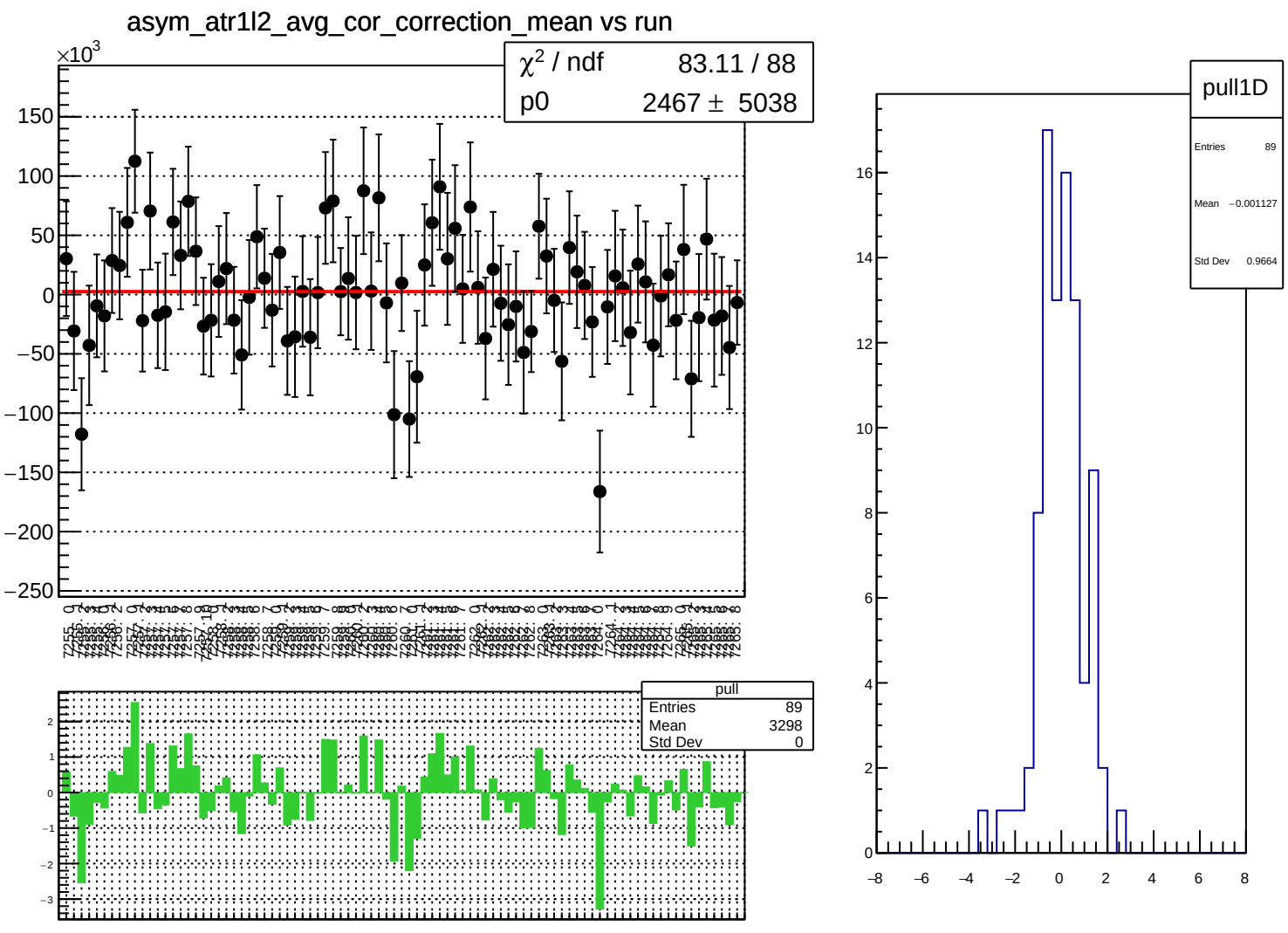
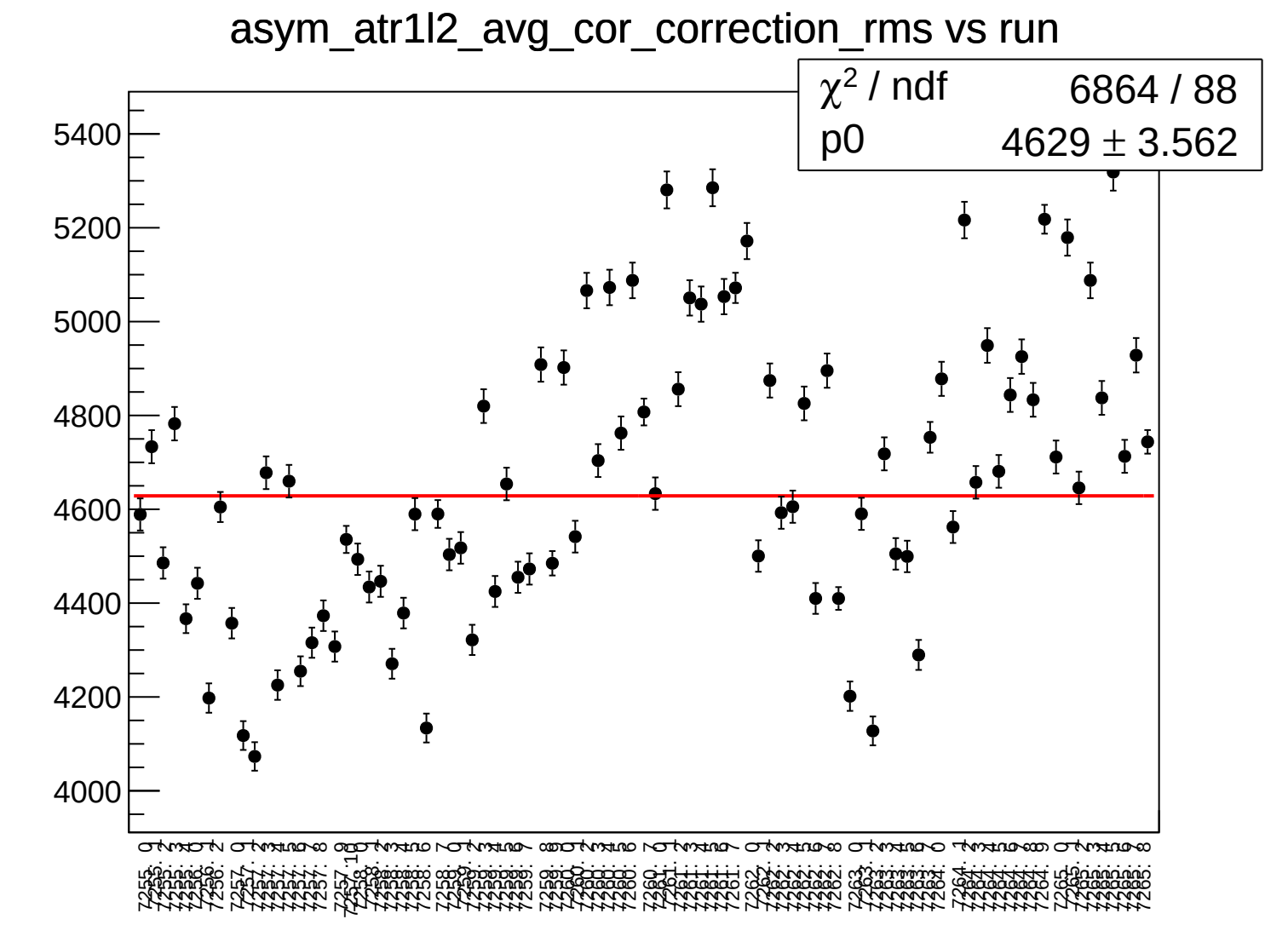
0
2
4
6
8

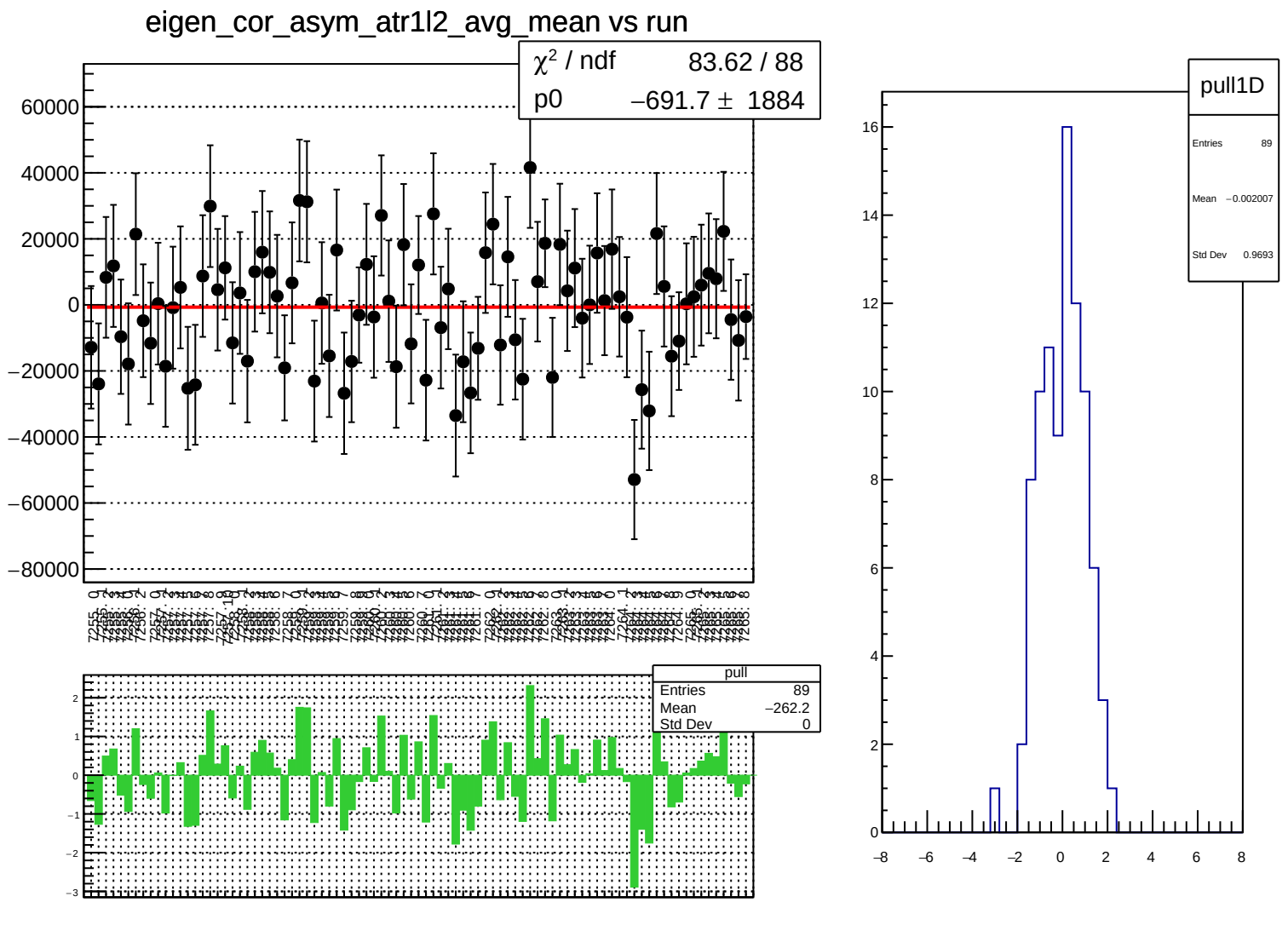

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 6863 / 88
p0 4629 ± 3.562
5400
5200
5000
4800
4600
4400
4200
4000

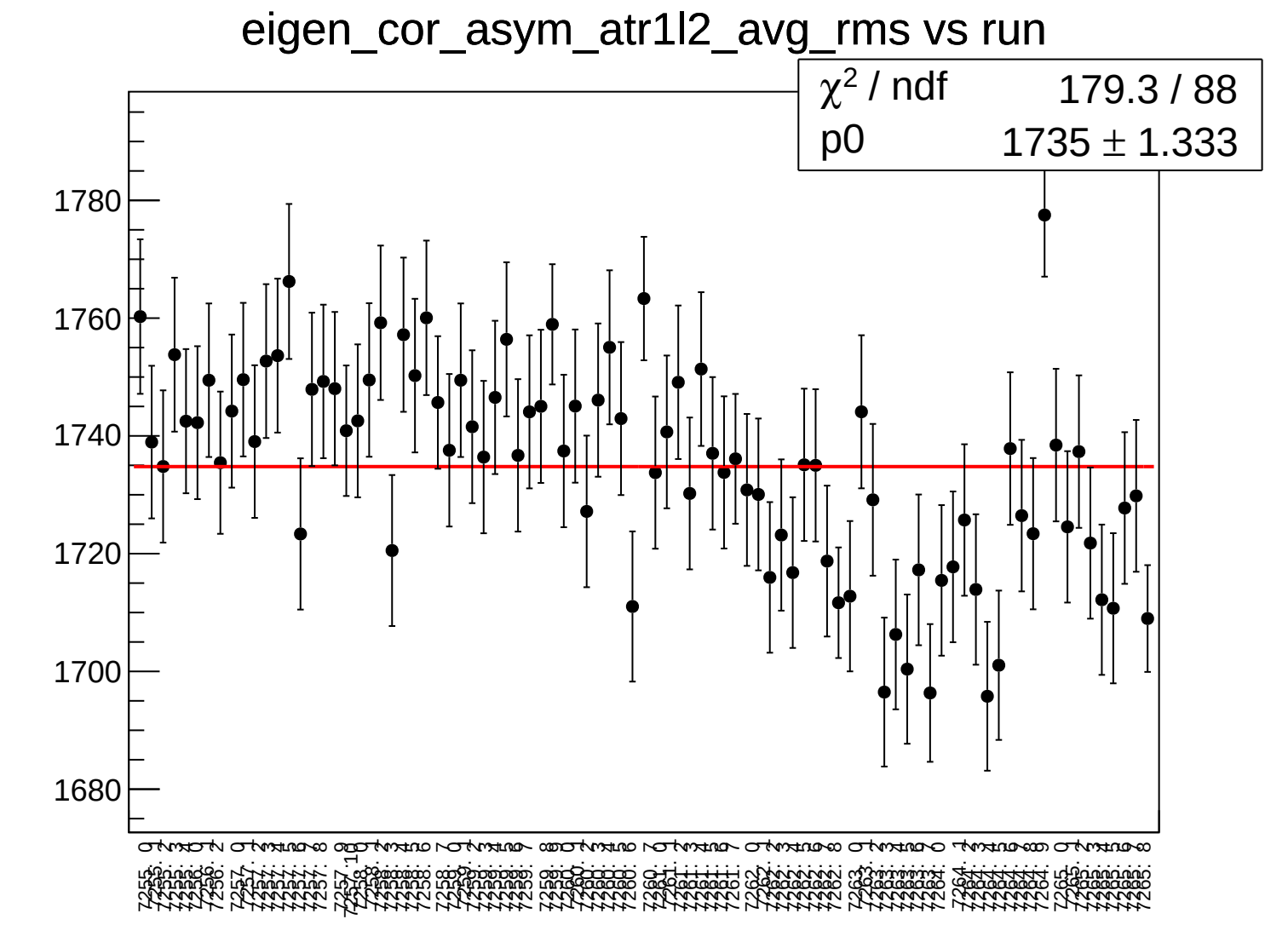

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 83.62 / 88
p0 −691.7 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −262.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.002007
Std Dev 0.9693
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

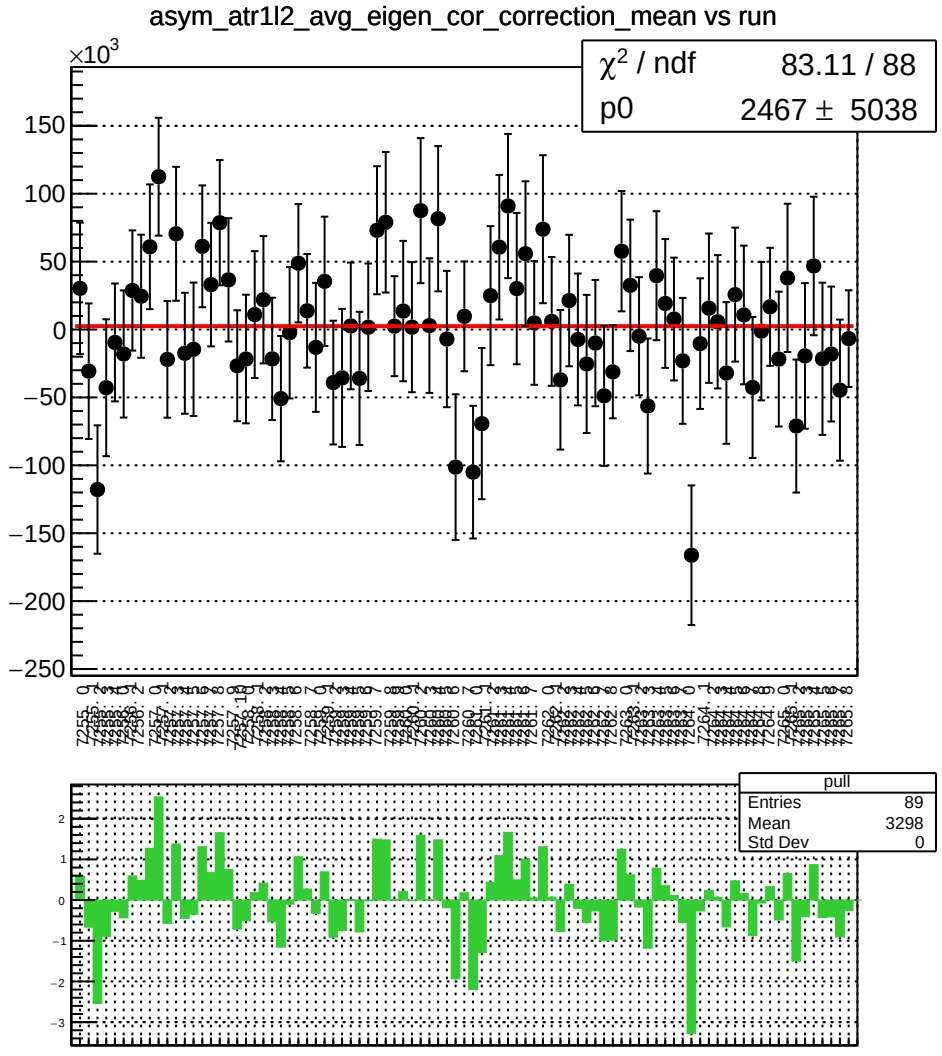

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 179.3 / 88
p0 1735 ± 1.333
1780
1760
1740
1720
1700
1680

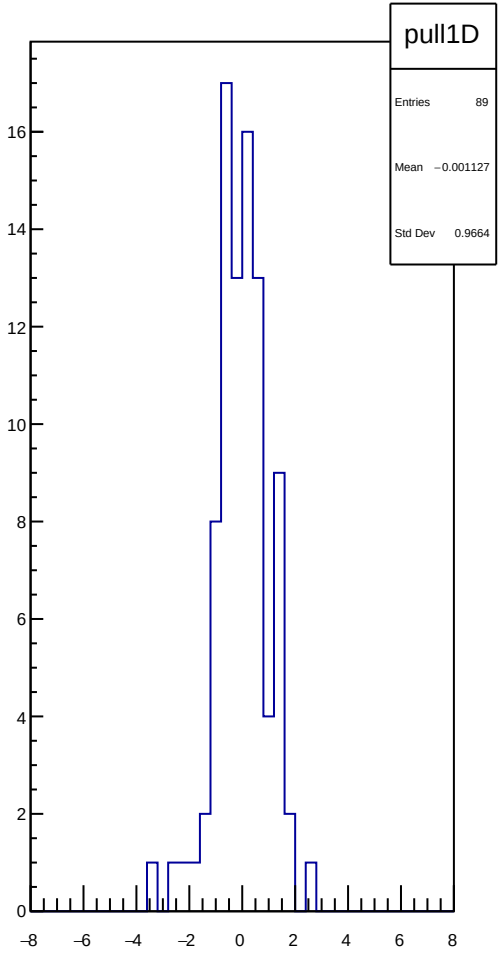

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 83.11 / 88
p0 2467 ± 5038
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean 3298
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.001127
Std Dev 0.9664
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

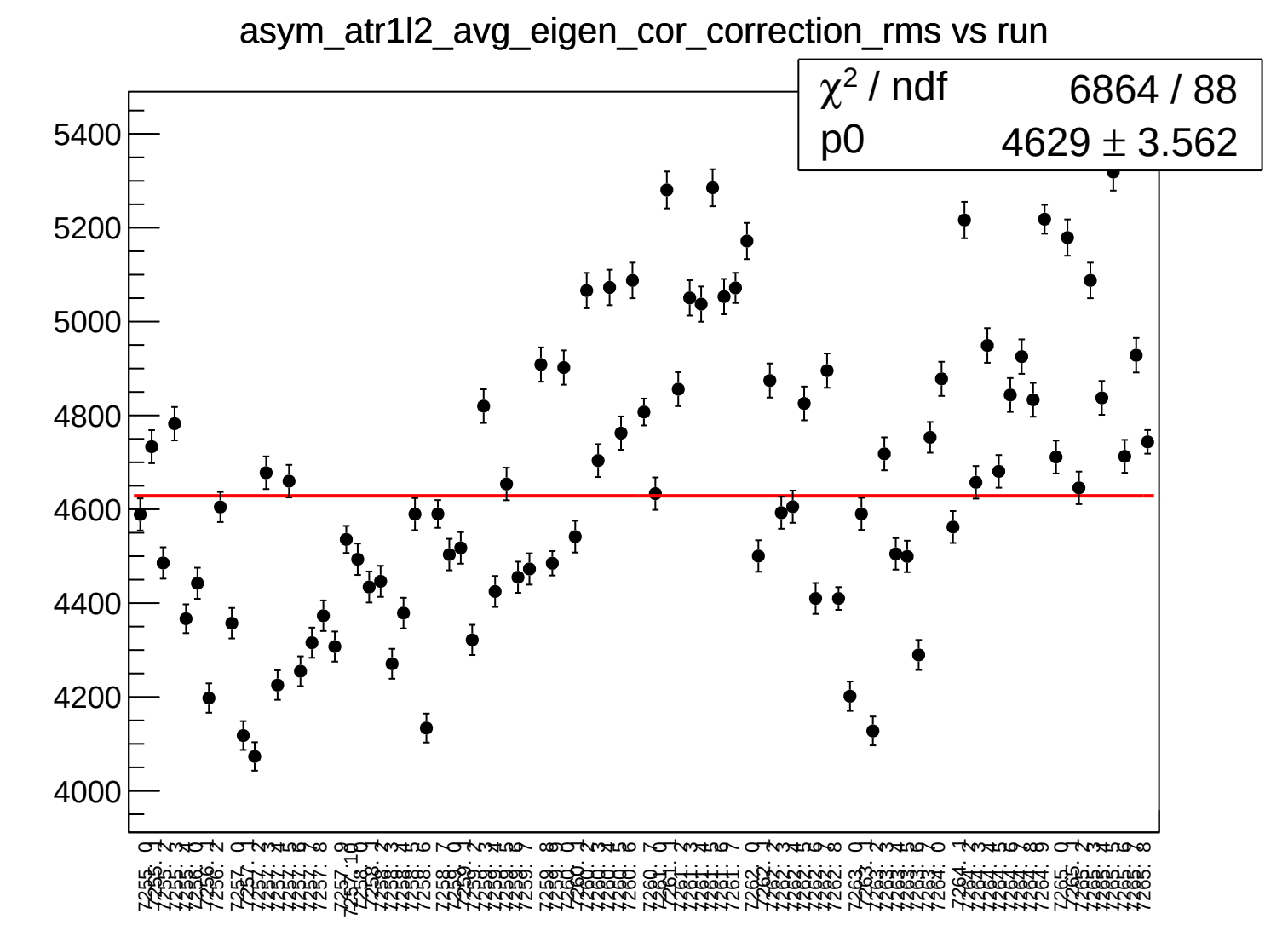

asym_atr1l2_avg_cor_correction_rms vs run
χ^2 / ndf 6864 / 88
p0 4629 ± 3.562
5400
5200
5000
4800
4600
4400
4200
4000

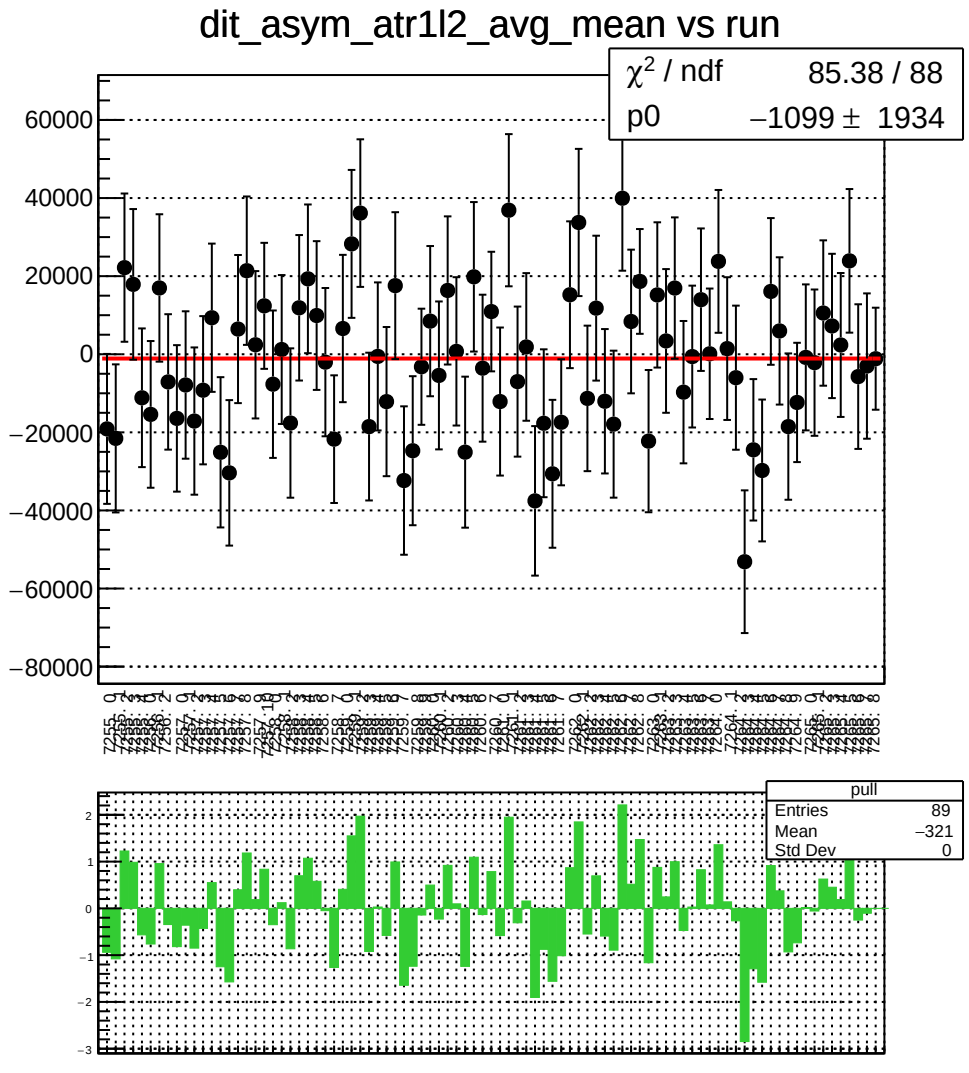

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 83.62 / 88
p0 −691.7 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −262.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.002007
Std Dev 0.9693
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

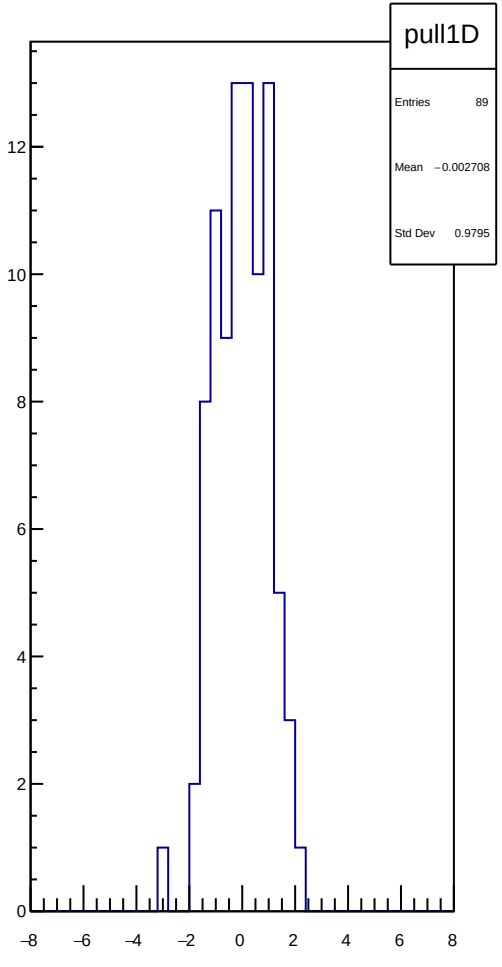

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 179.3 / 88
p0 1735 ± 1.333
1780
1760
1740
1720
1700
1680

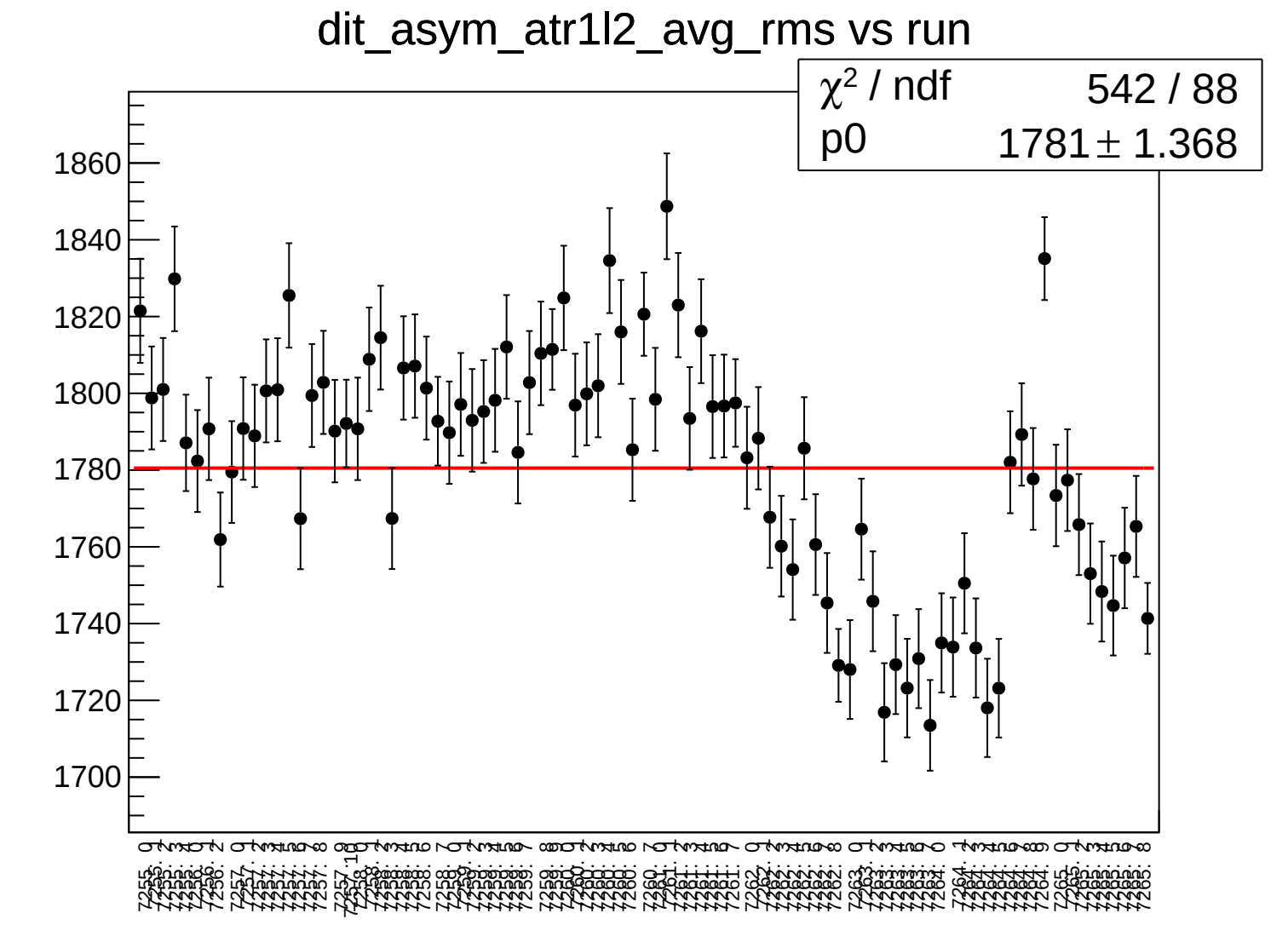

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.11 / 88
p0 2467 ± 5038
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean 3298
Std Dev 0
2
1
0
−1
−2
−3

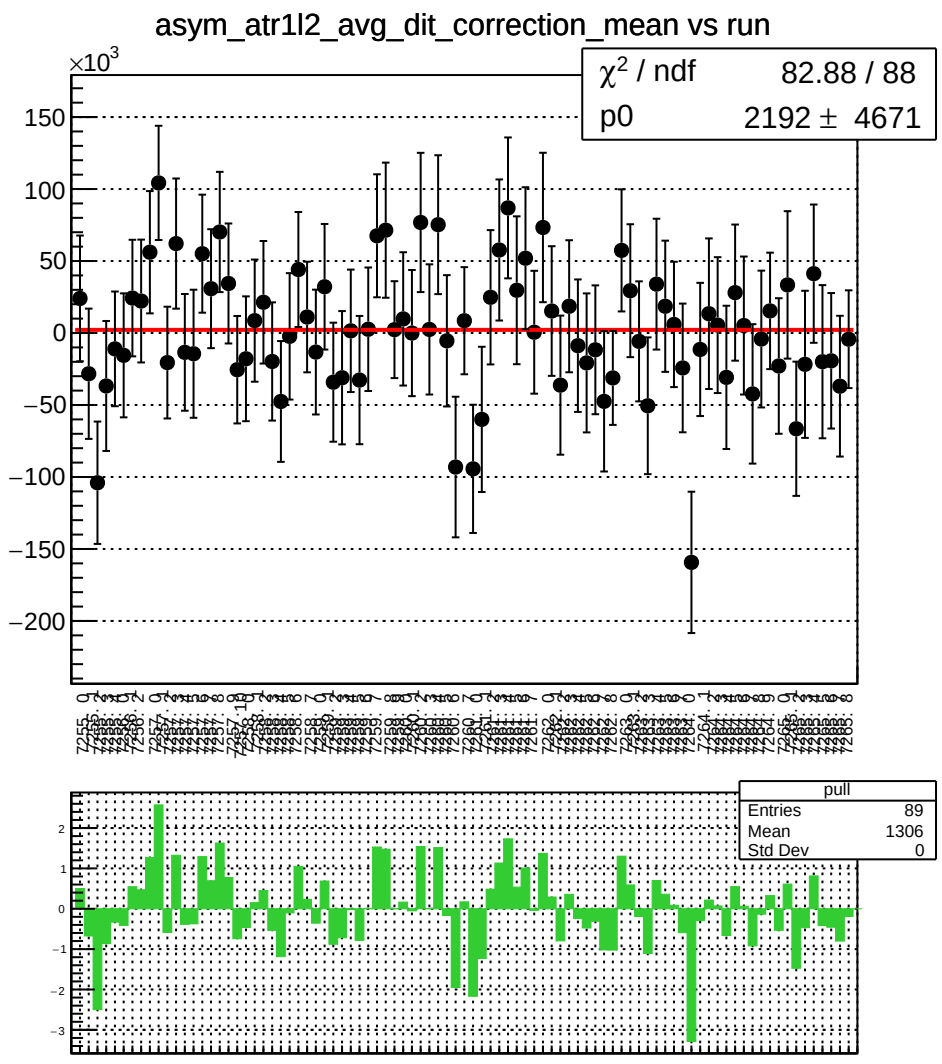

pull1D
Entries 89
Mean −0.001127
Std Dev 0.9664
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

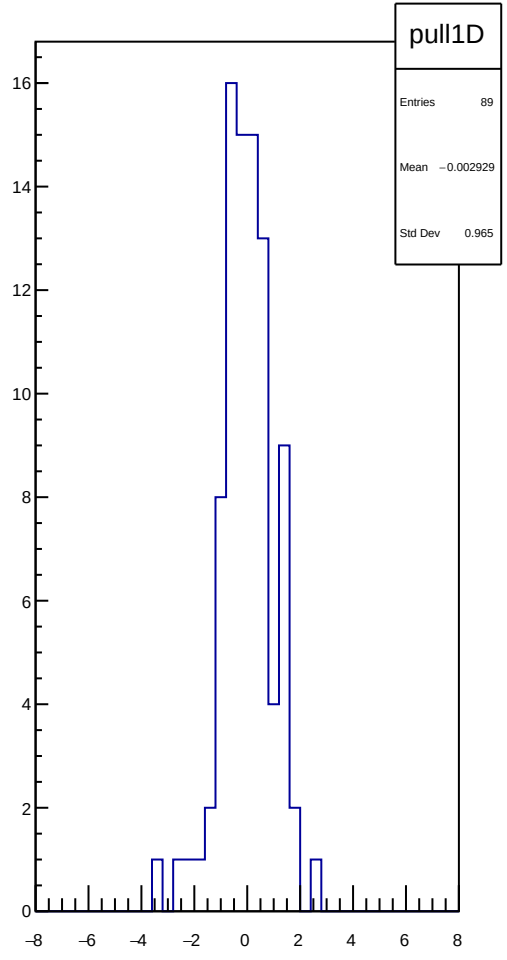

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6864 / 88
p0 4629 ± 3.562
5400
5200
5000
4800
4600
4400
4200
4000

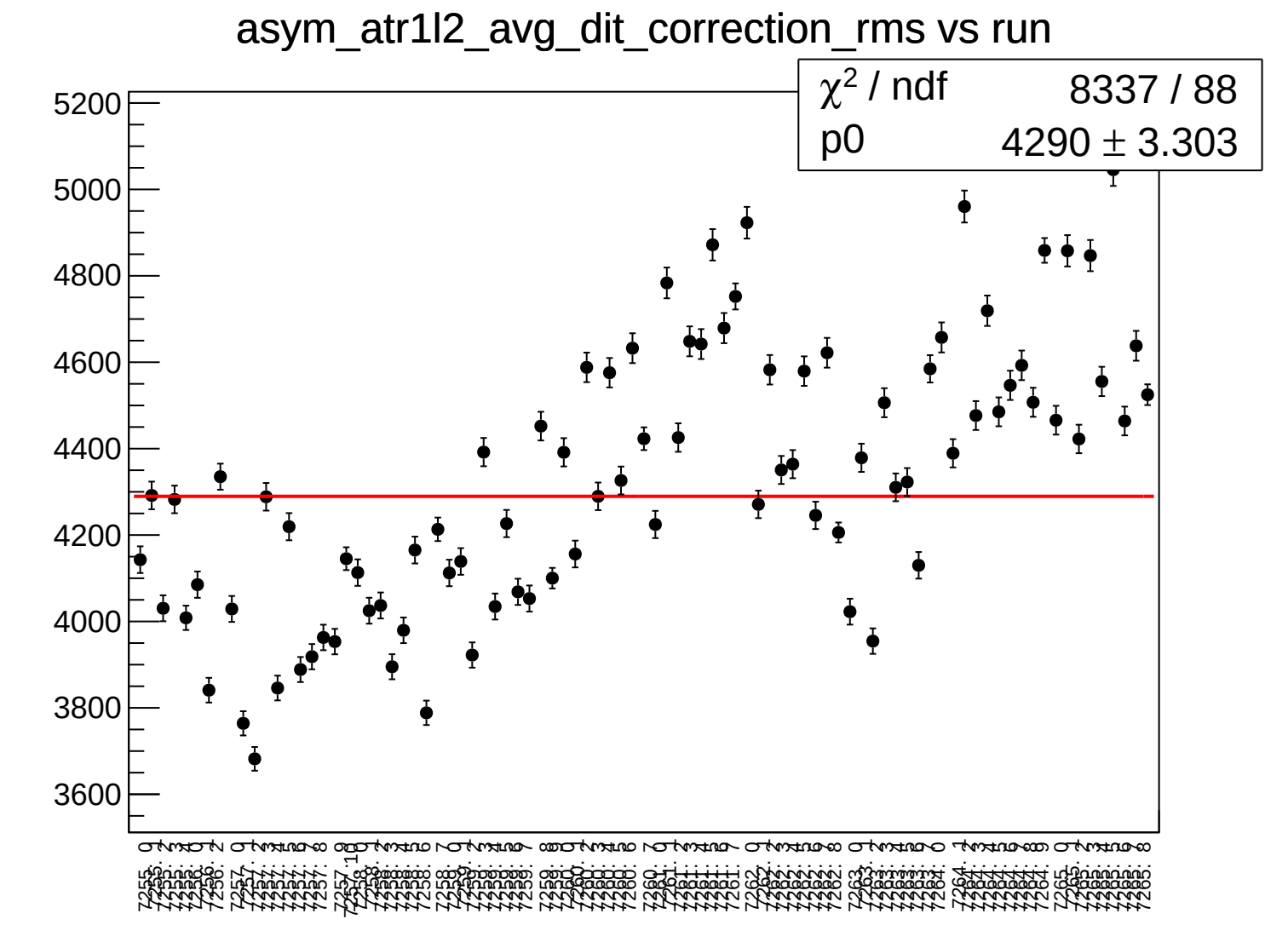

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 85.38 / 88
p0 −1099 ± 1934
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −321
Std Dev 0
2
1
0
−1
−2
−3

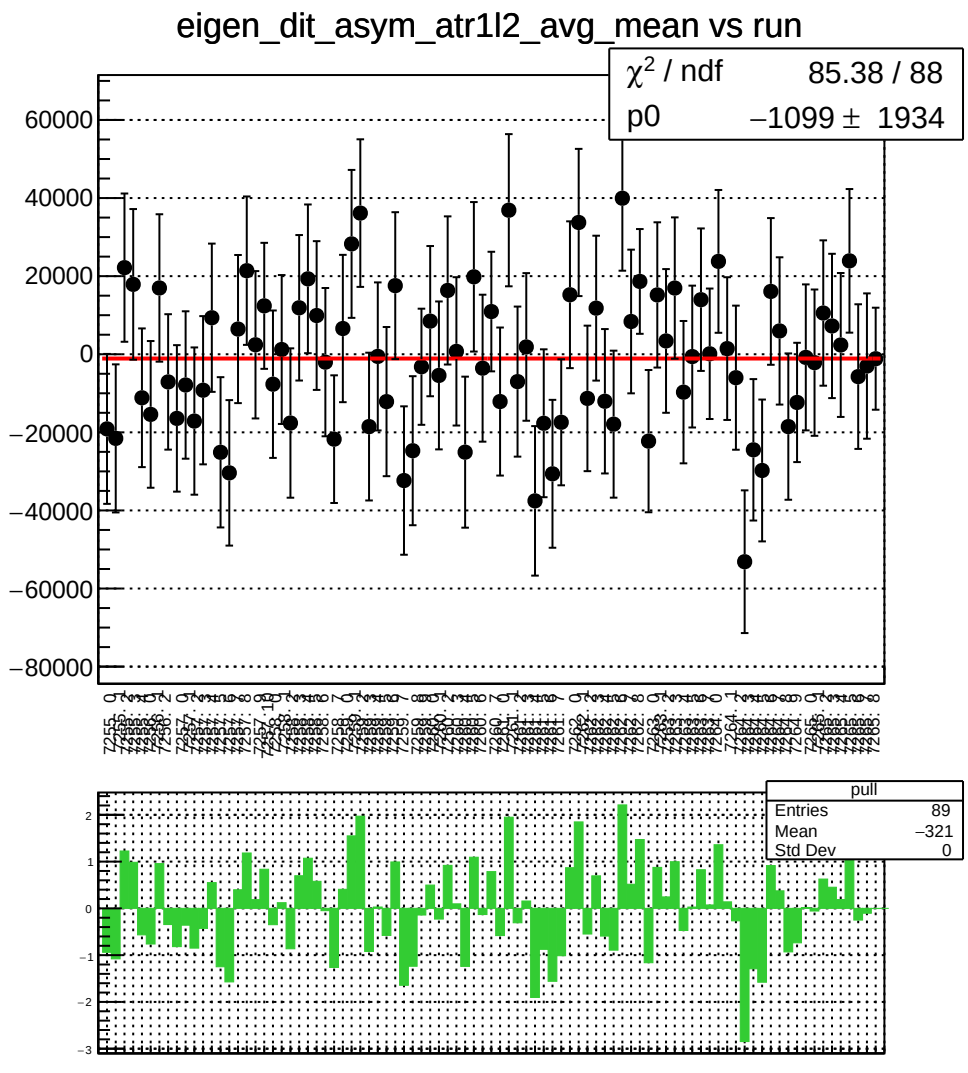

pull1D
Entries 89
Mean −0.002708
Std Dev 0.9795
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

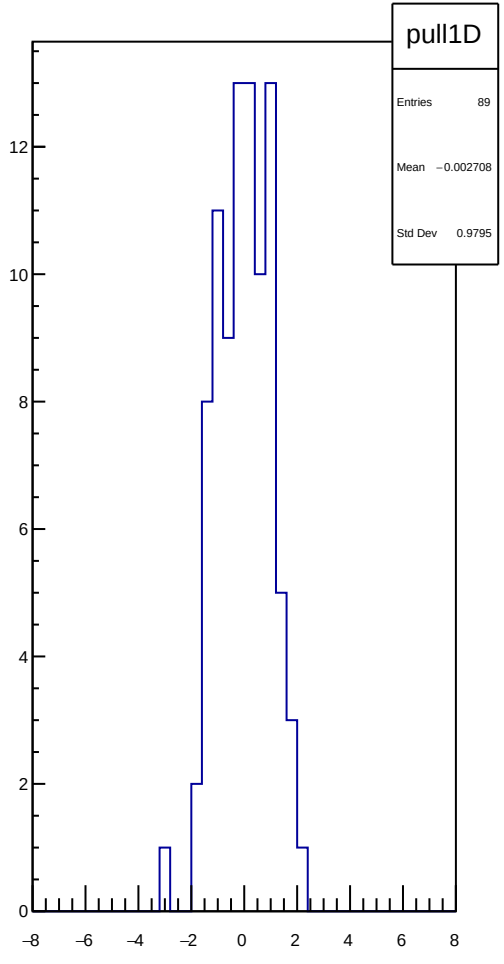

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 542 / 88
p0 1781 ± 1.368
1860
1840
1820
1800
1780
1760
1740
1720
1700


asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.88 / 88
p0 2192 ± 4671
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 1306
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 89
Mean −0.002929
Std Dev 0.965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 8337 / 88
p0 4290 ± 3.303
5200
5000
4800
4600
4400
4200
4000
3800
3600


eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 85.38 / 88
p0 −1099 ± 1934
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −321
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 89
Mean −0.002708
Std Dev 0.9795
12
10
8
6
4
2
0
−8
−6
−4
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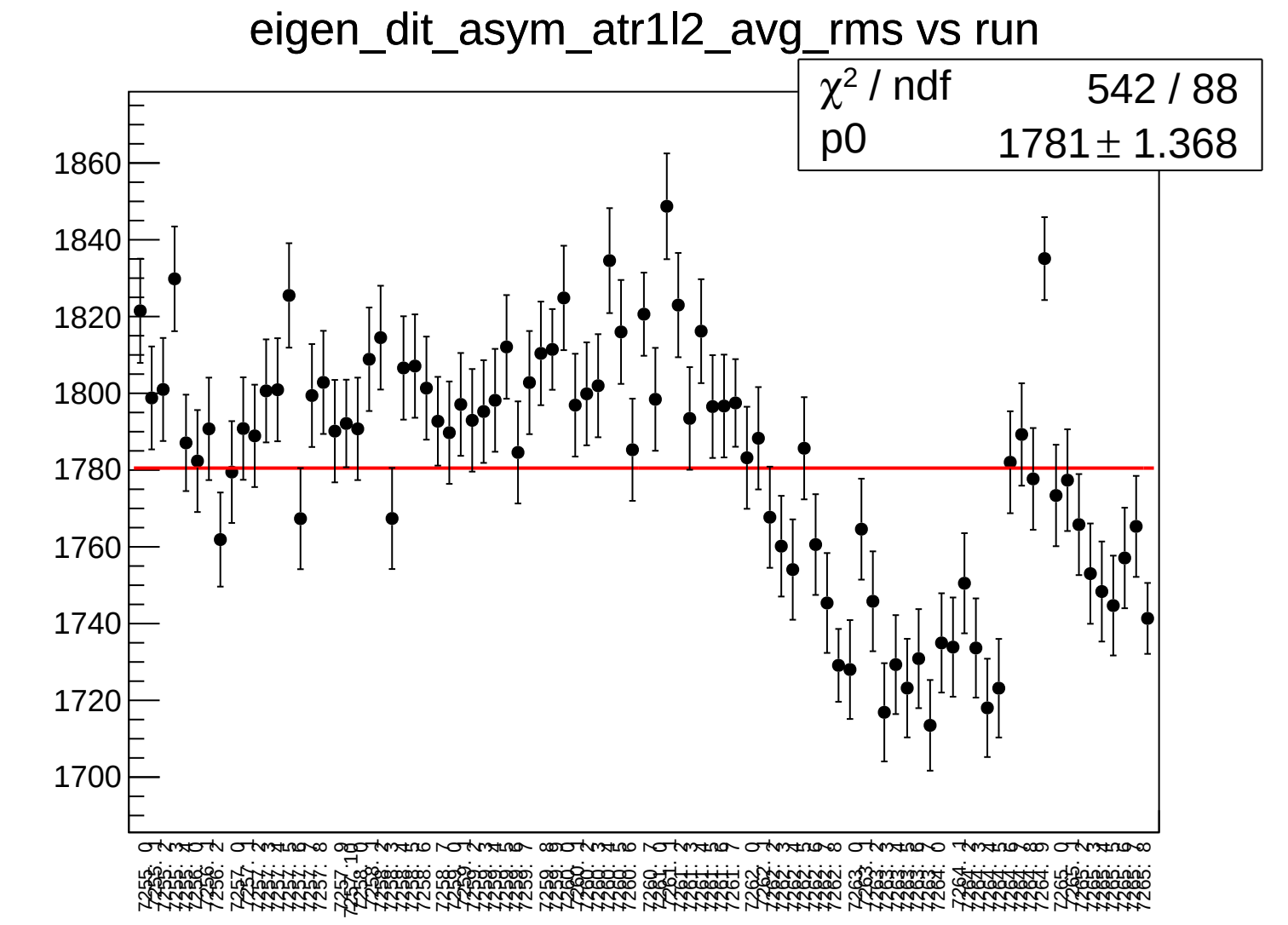
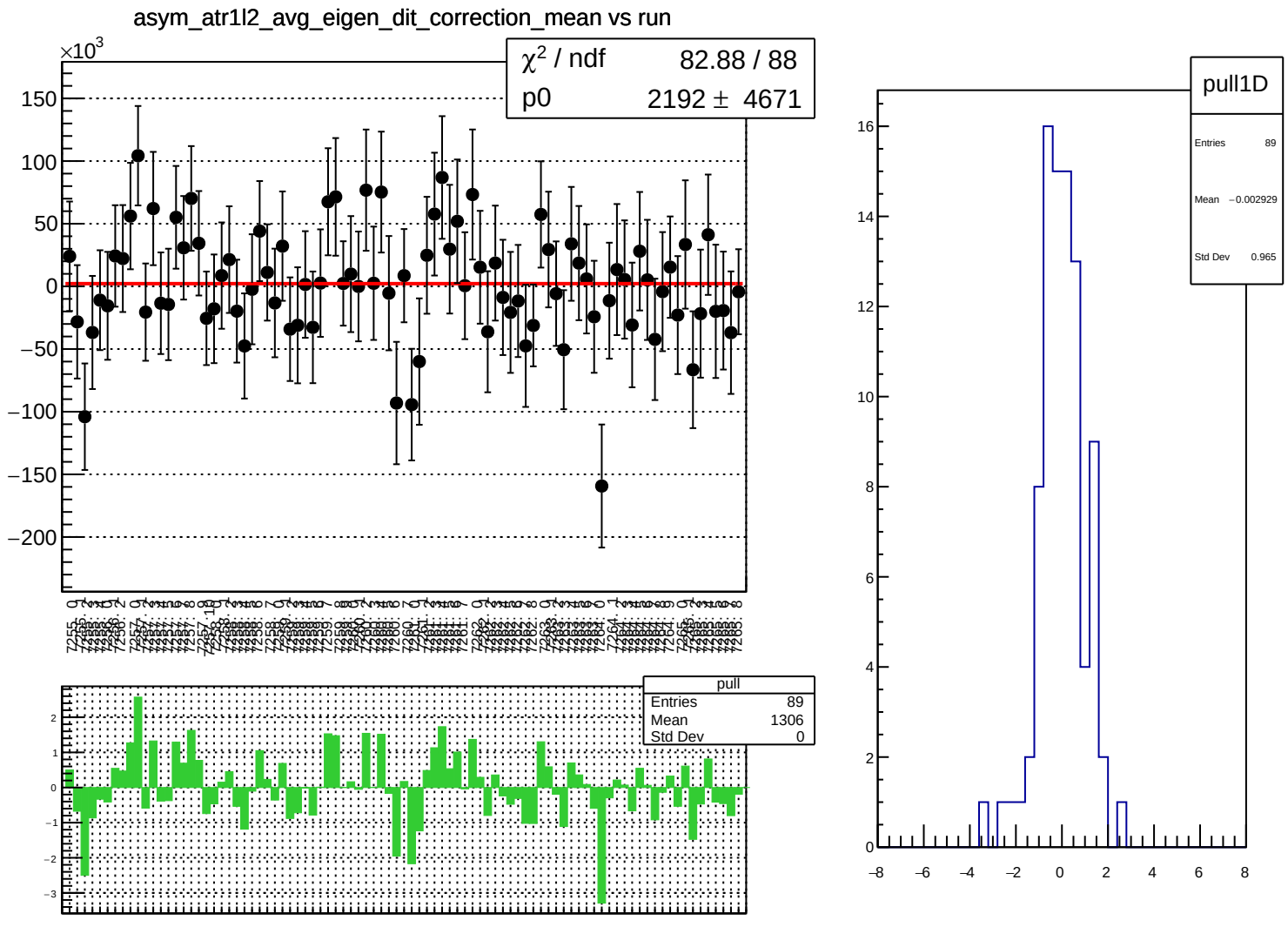
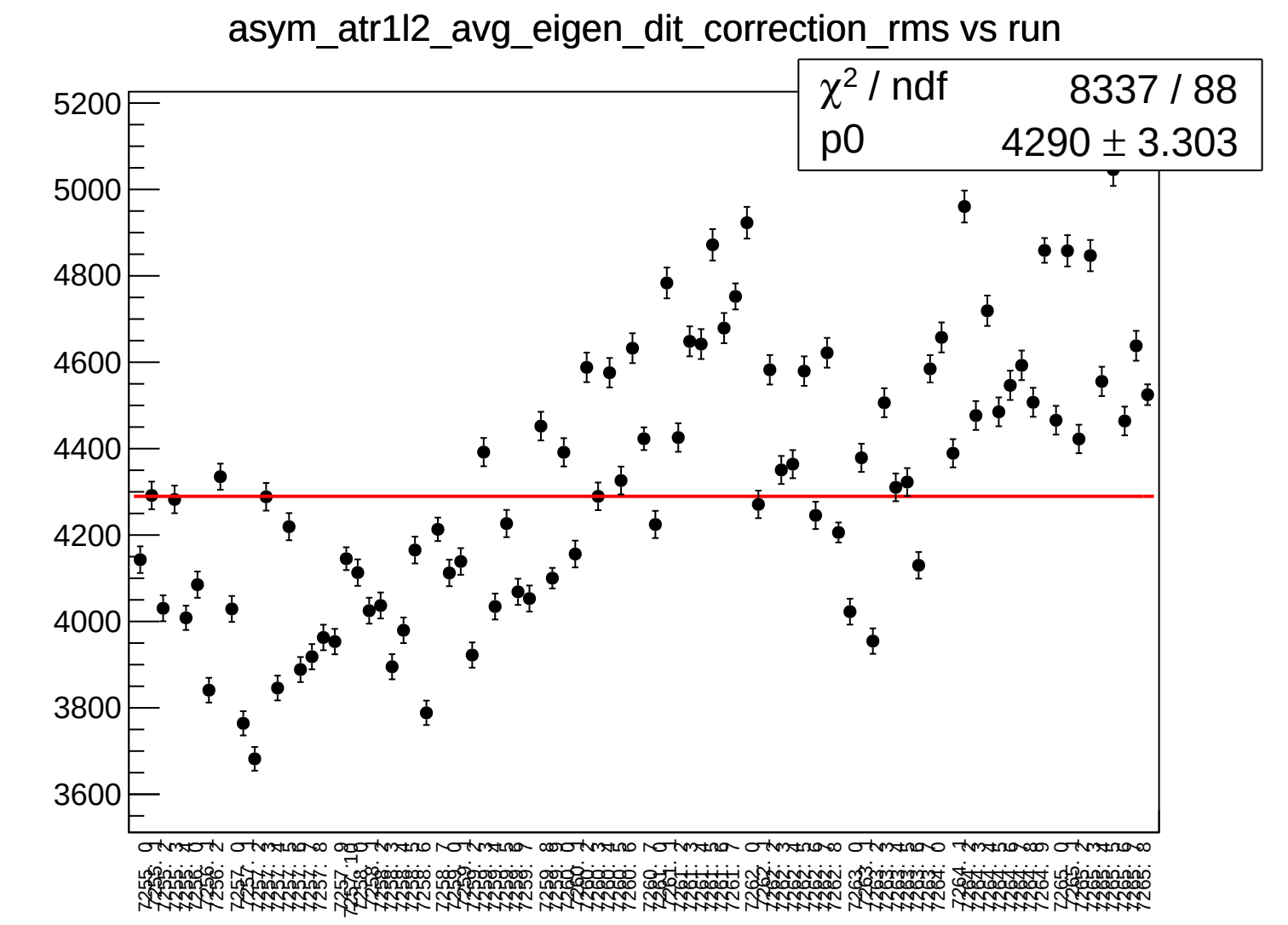
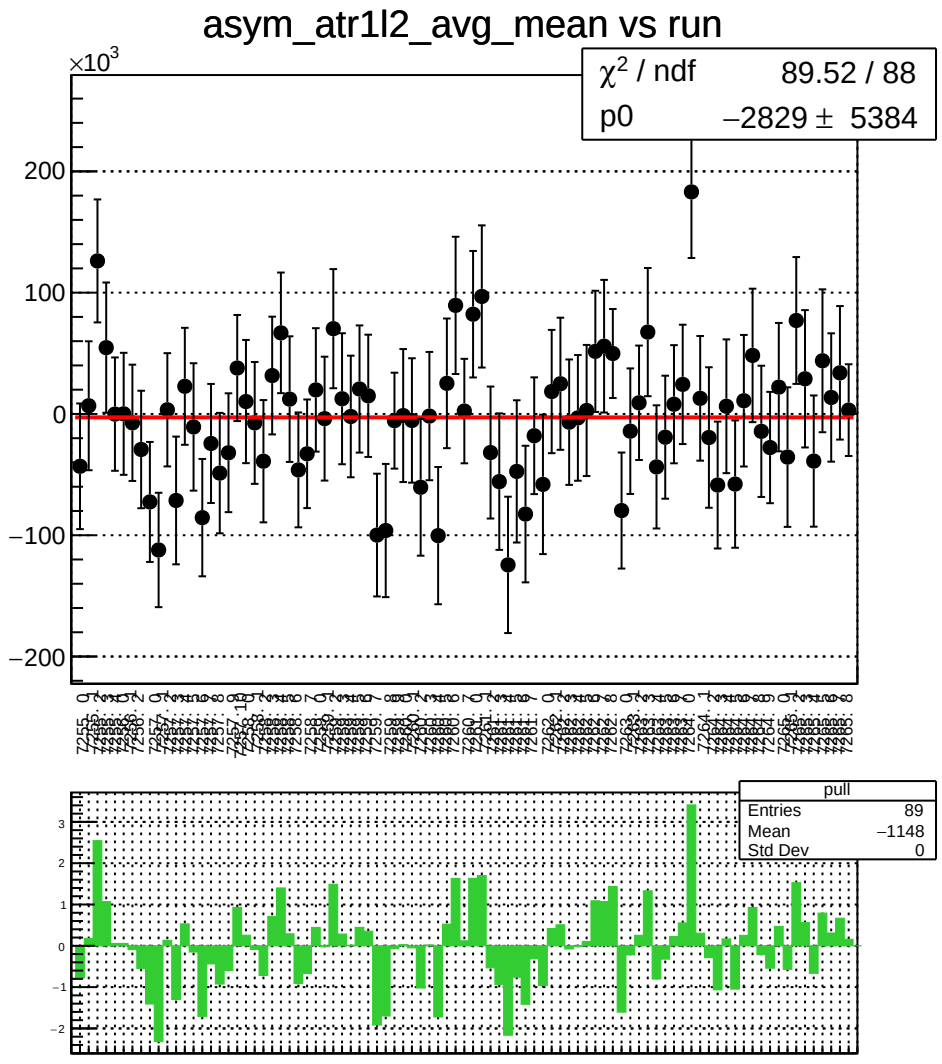
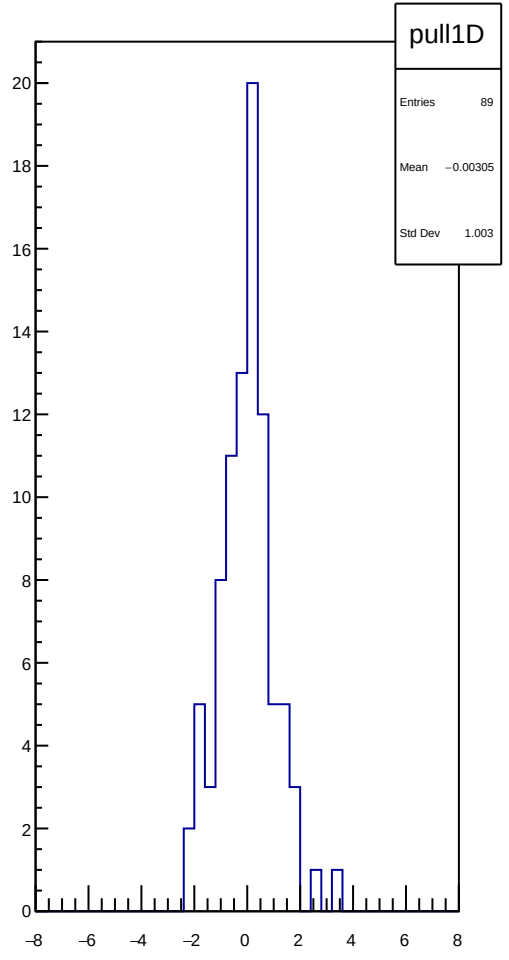
0
2
4
6
8

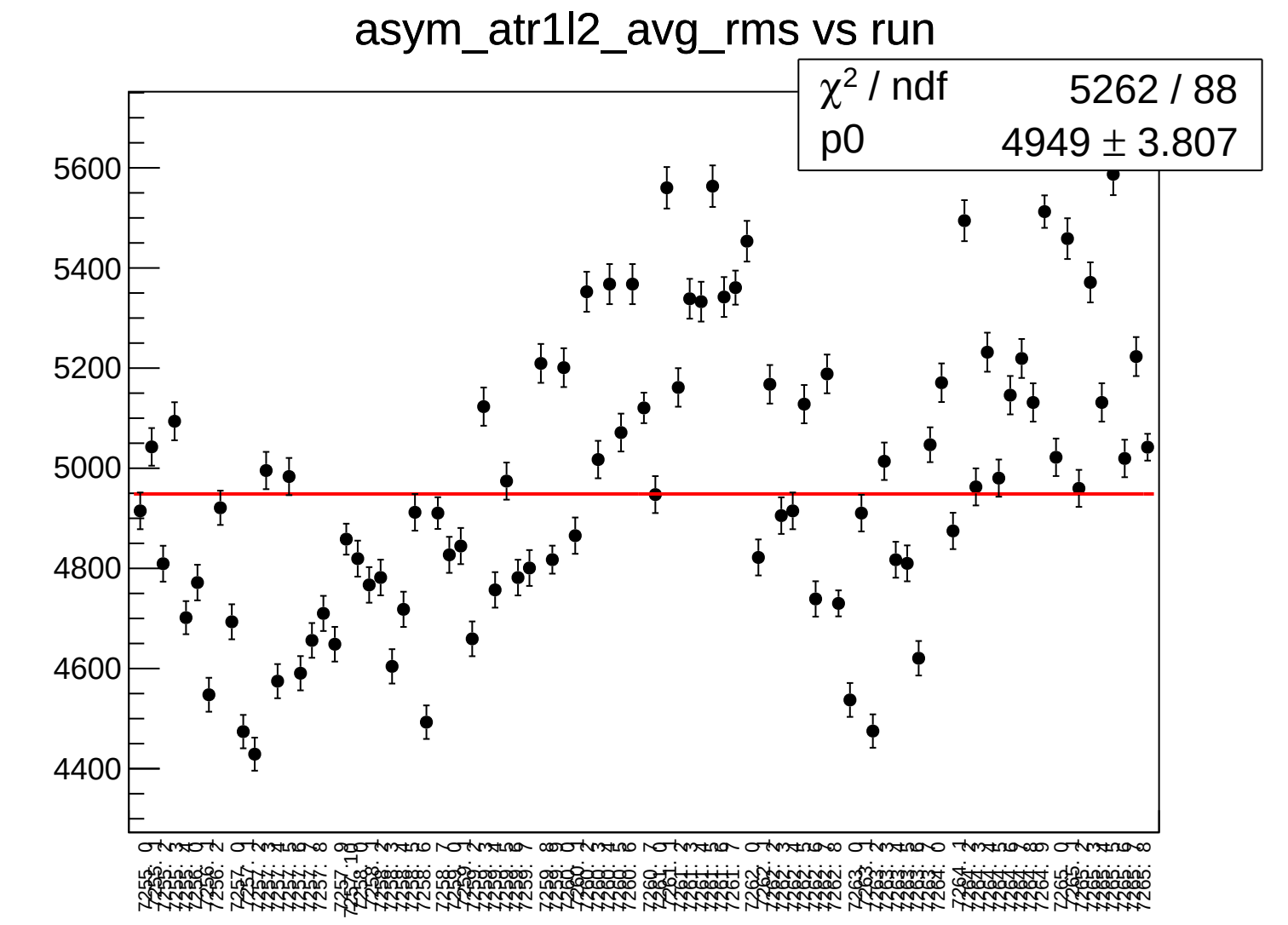

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 542 / 88
p0 1781 ± 1.368
1860
1840
1820
1800
1780
1760
1740
1720
1700

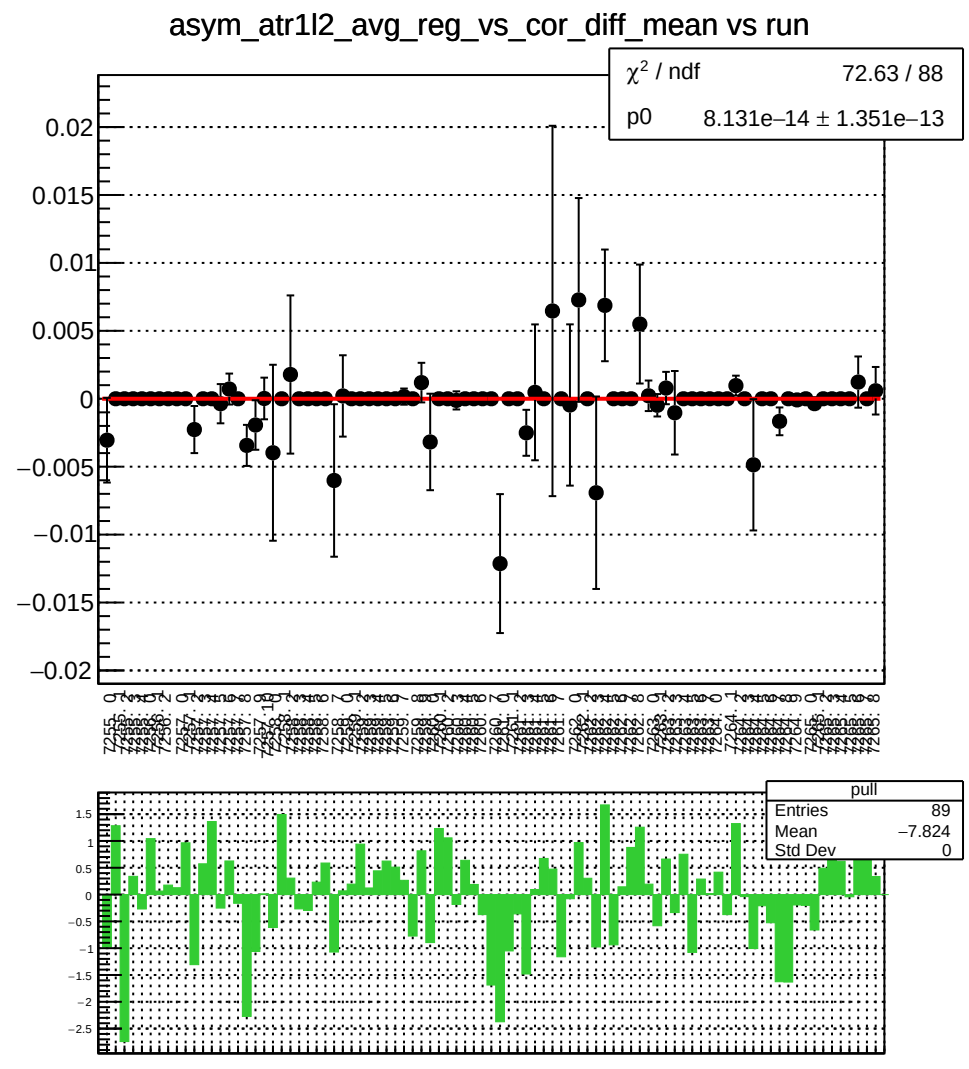

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.88 / 88
p0 2192 ± 4671
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 1306
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.002929
Std Dev 0.965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

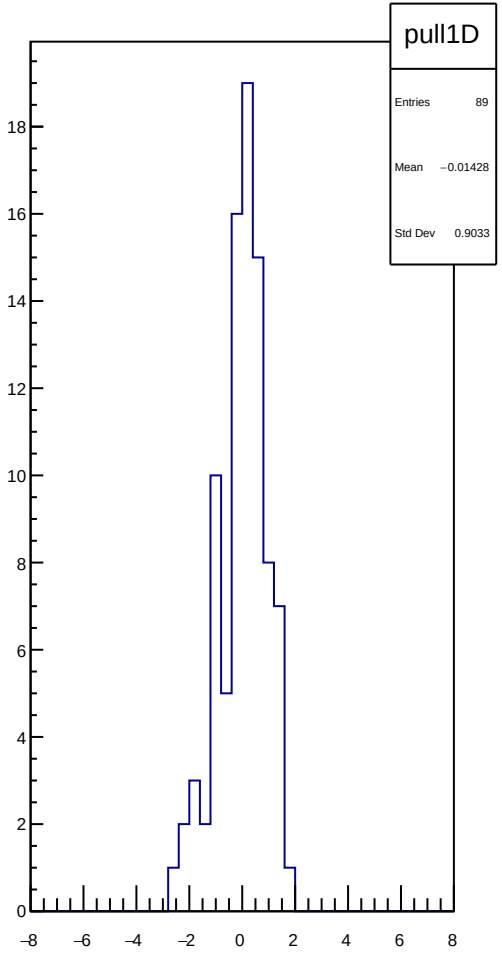

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 8337 / 88
p0 4290 ± 3.303
5200
5000
4800
4600
4400
4200
4000
3800
3600

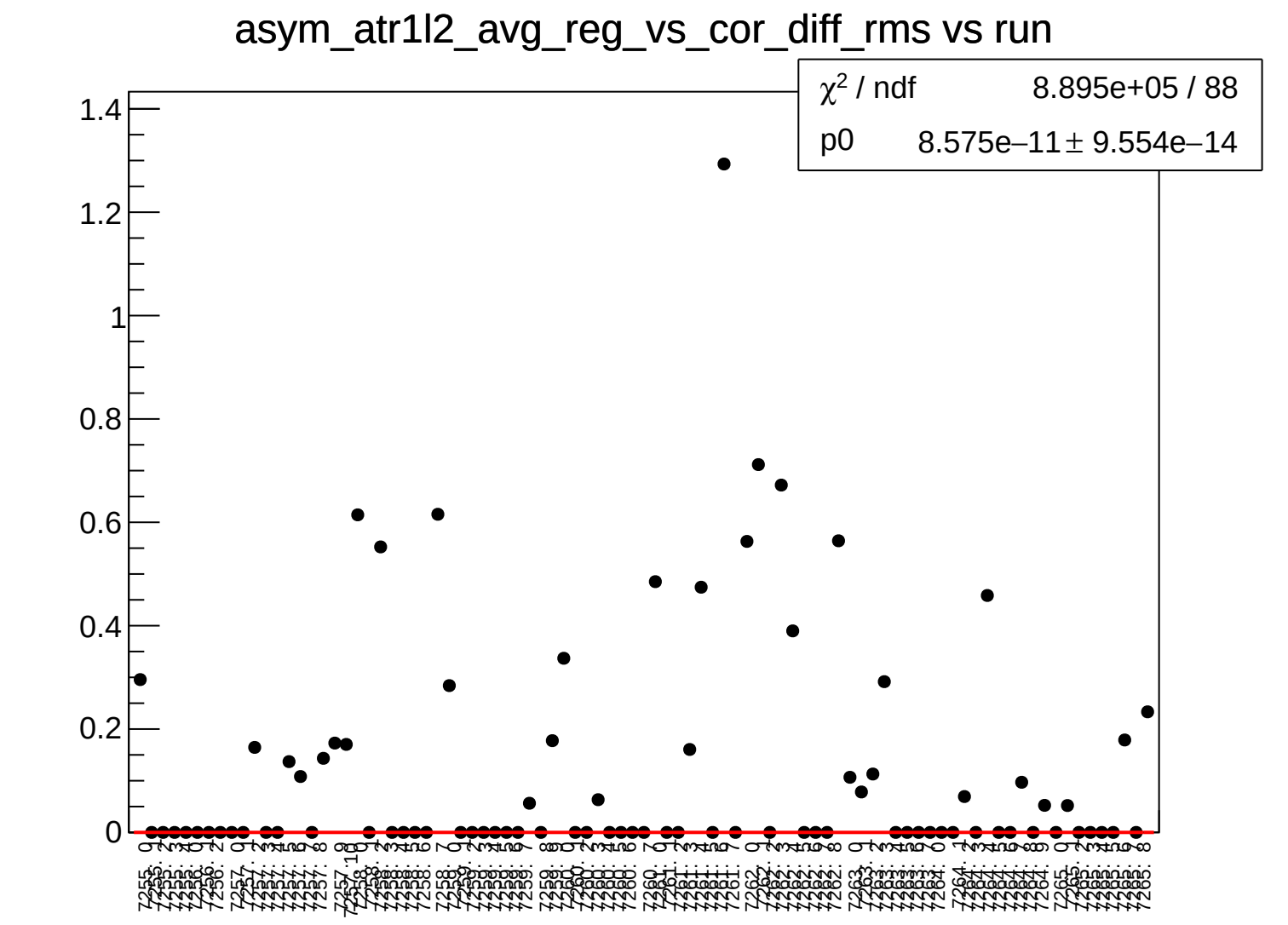

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 89.52 / 88
p0 −2829 ± 5384
200
100
0
−100
−200
pull
Entries 89
Mean −1148
Std Dev 0
3
2
1
0
−1
−2

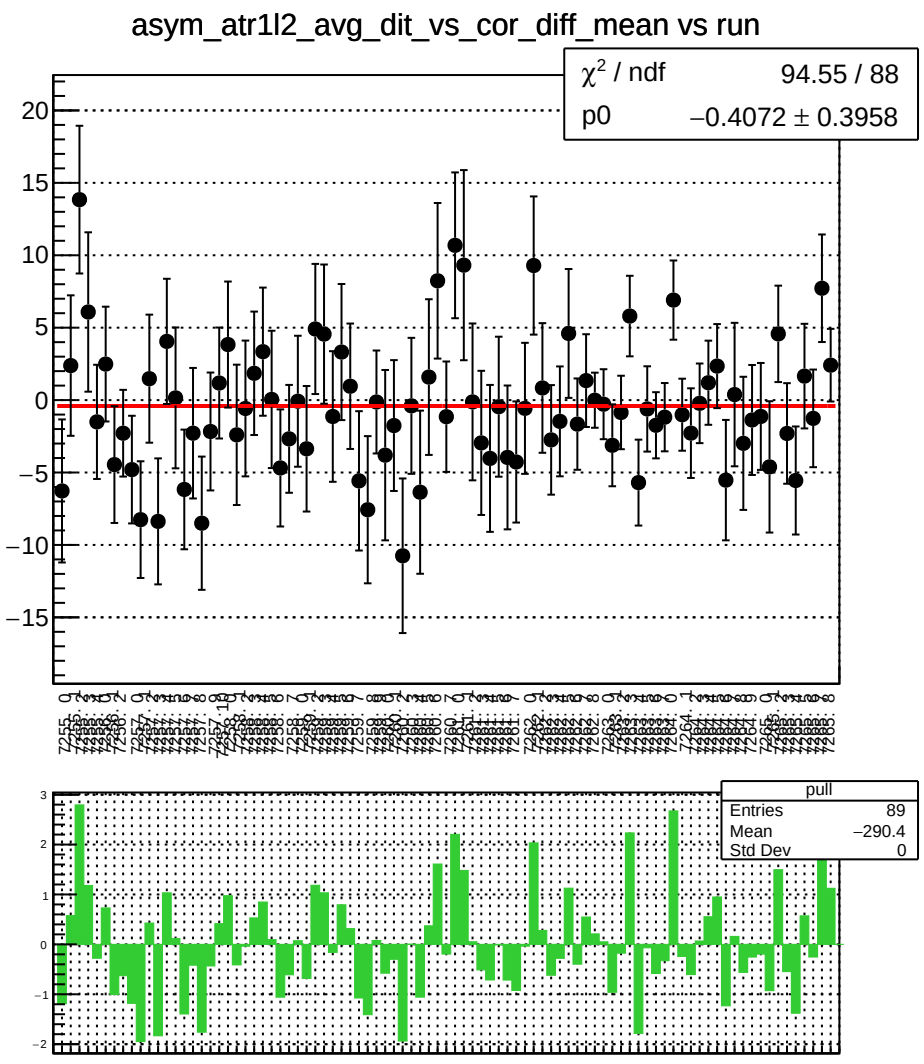

pull1D
Entries 89
Mean −0.00305
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

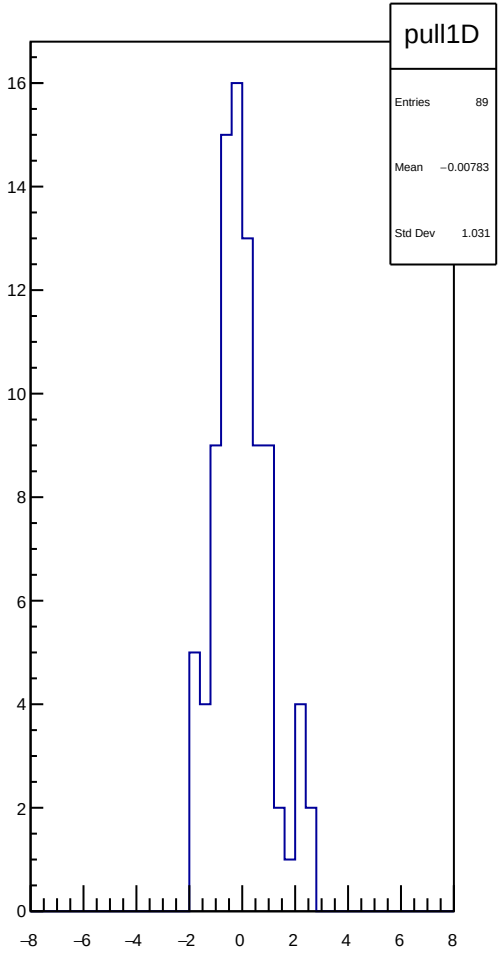

asym_atr1l2_avg_rms vs run
χ² / ndf 5262 / 88
p0 4949 ± 3.807
5600
5400
5200
5000
4800
4600
4400

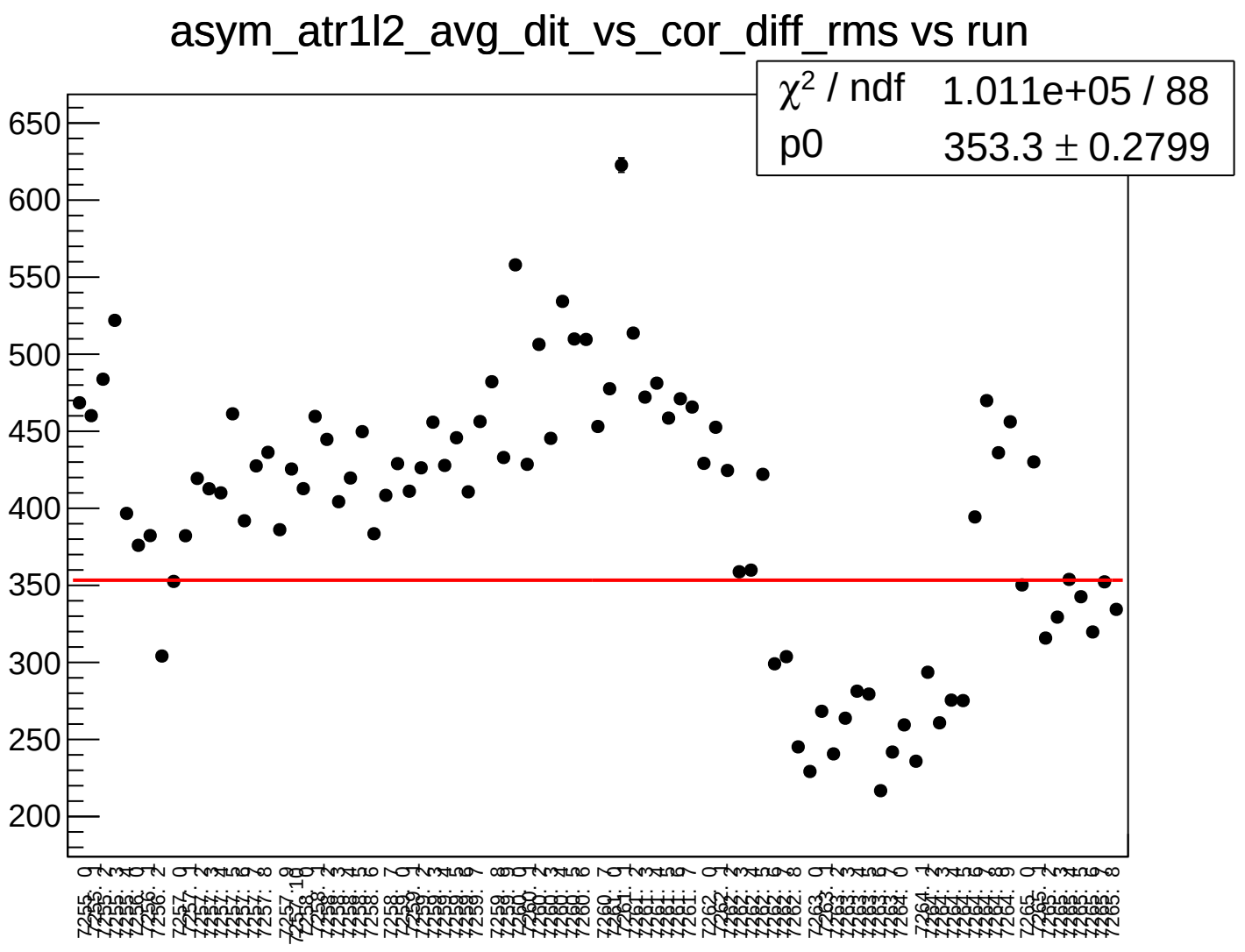

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.63 / 88
p0 8.131e−14 ± 1.351e−13
pull
Entries 89
Mean −7.824
Std Dev 0

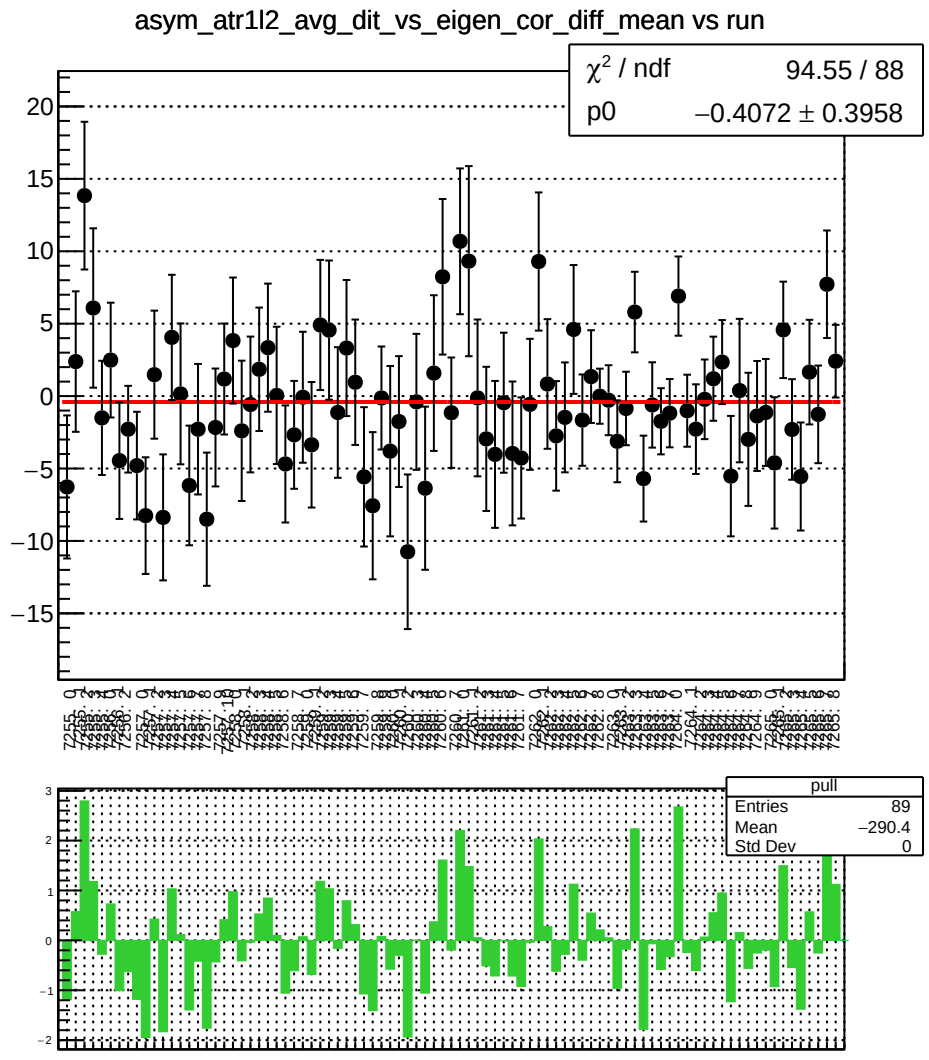

pull1D
Entries 89
Mean −0.01428
Std Dev 0.9033

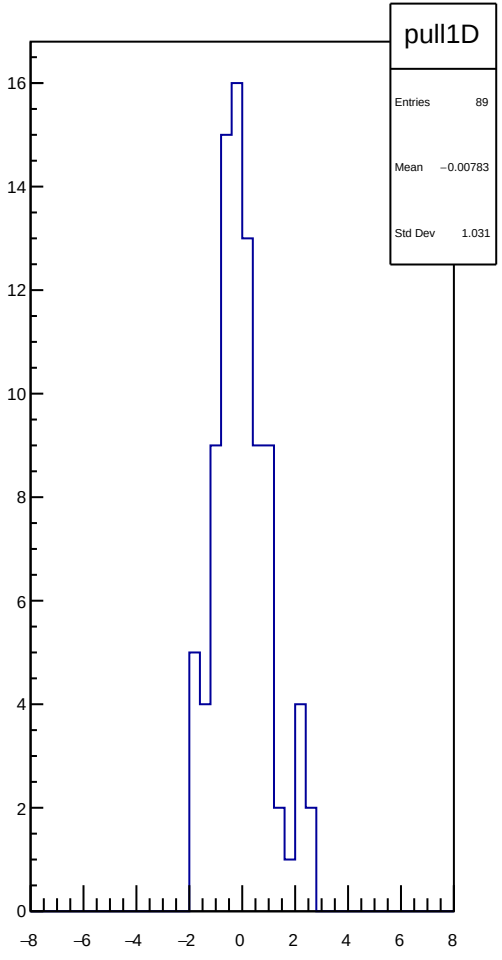

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.895e+05 / 88
p0 8.575e−11 ± 9.554e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

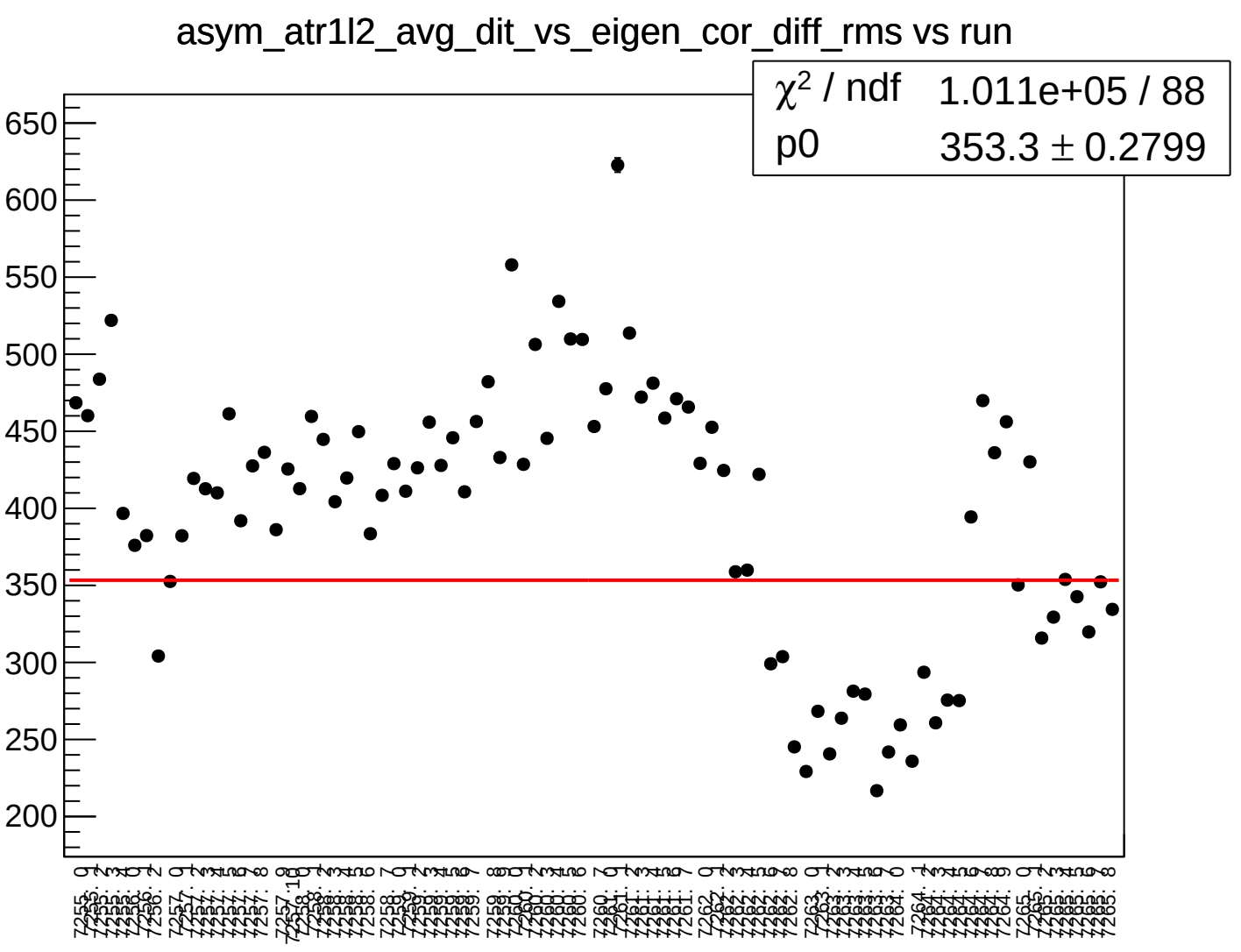

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.55 / 88
p0 −0.4072 ± 0.3958
pull
Entries 89
Mean −290.4
Std Dev 0

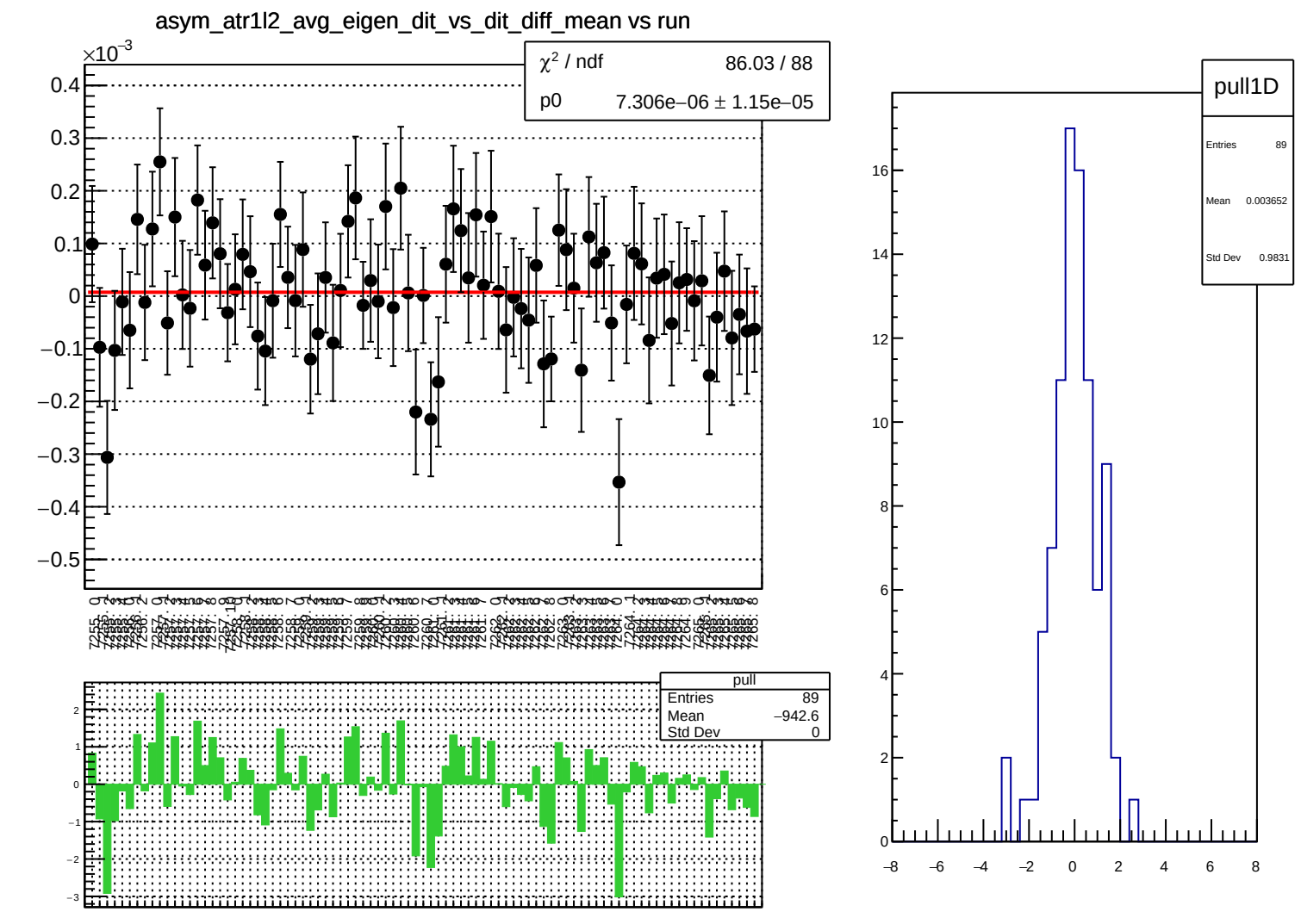

pull1D
Entries 89
Mean −0.00783
Std Dev 1.031

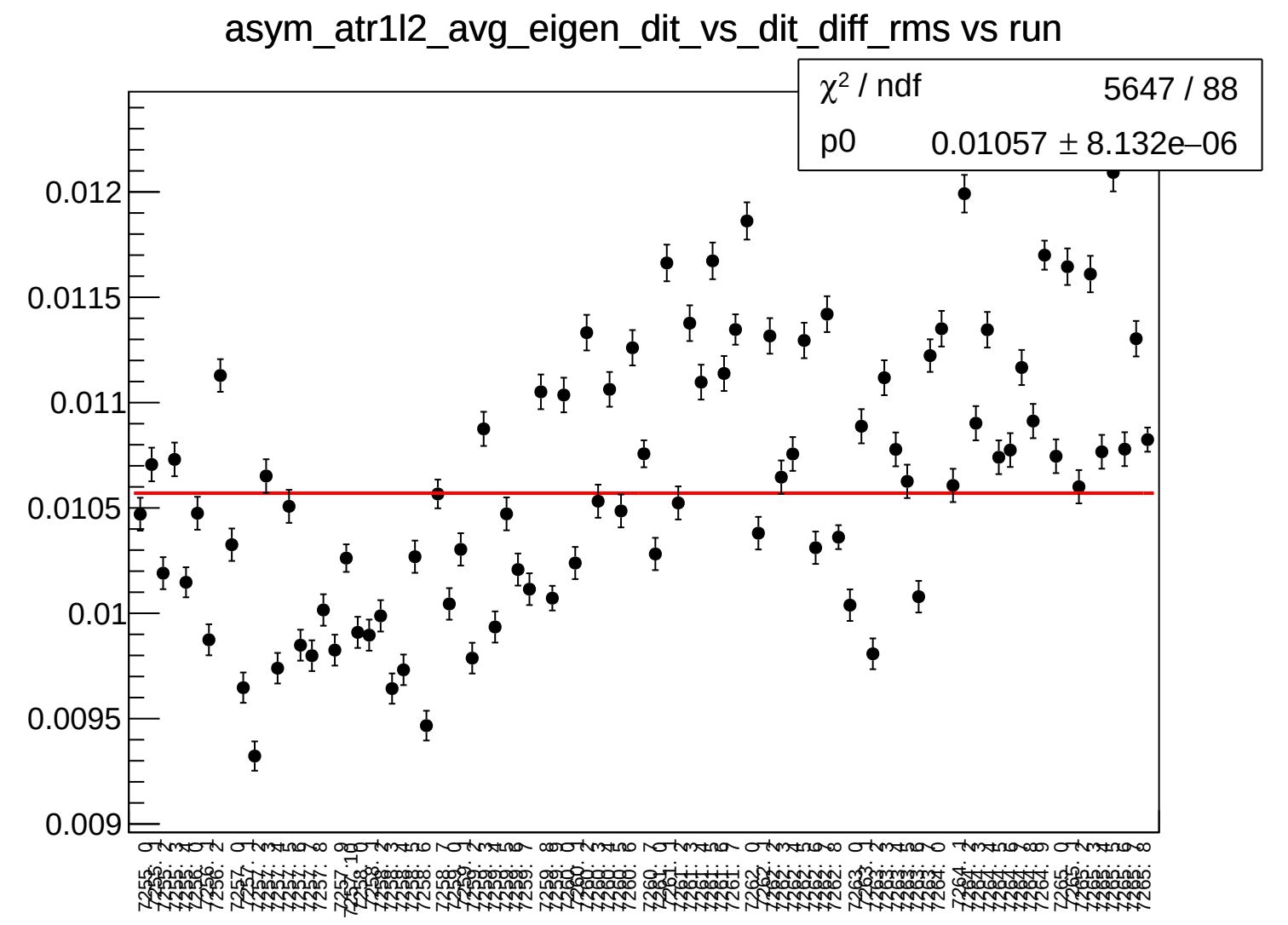

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.011e+05 / 88
p0 353.3 ± 0.2799
650
600
550
500
450
400
350
300
250
200

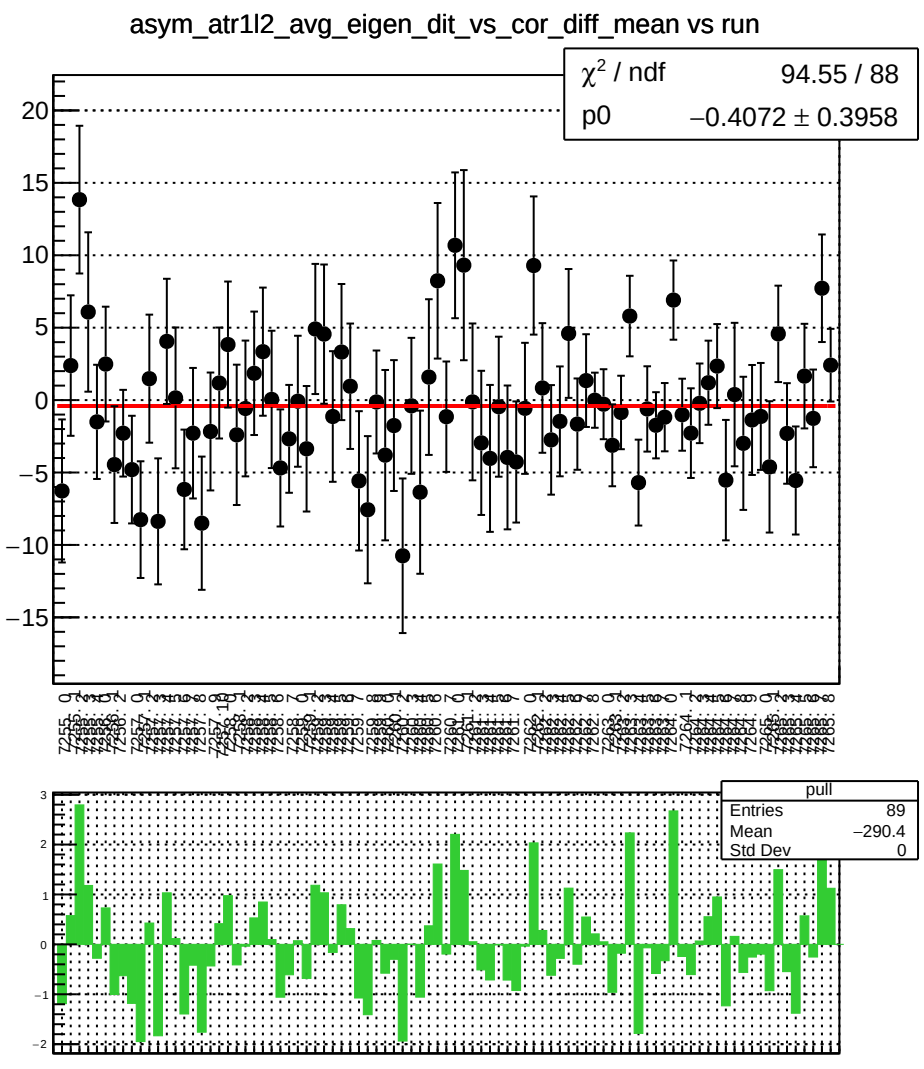

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.55 / 88
p0 −0.4072 ± 0.3958
pull
Entries 89
Mean −290.4
Std Dev 0

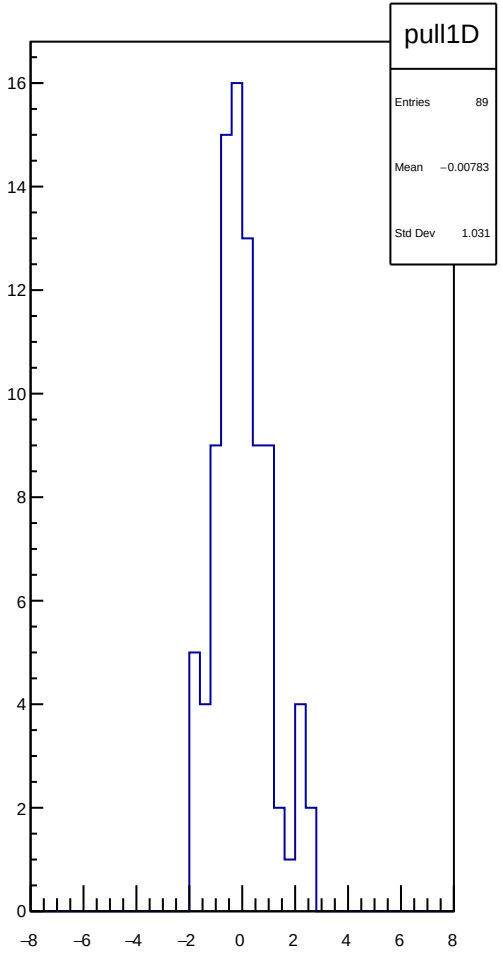

pull1D
Entries 89
Mean −0.00783
Std Dev 1.031

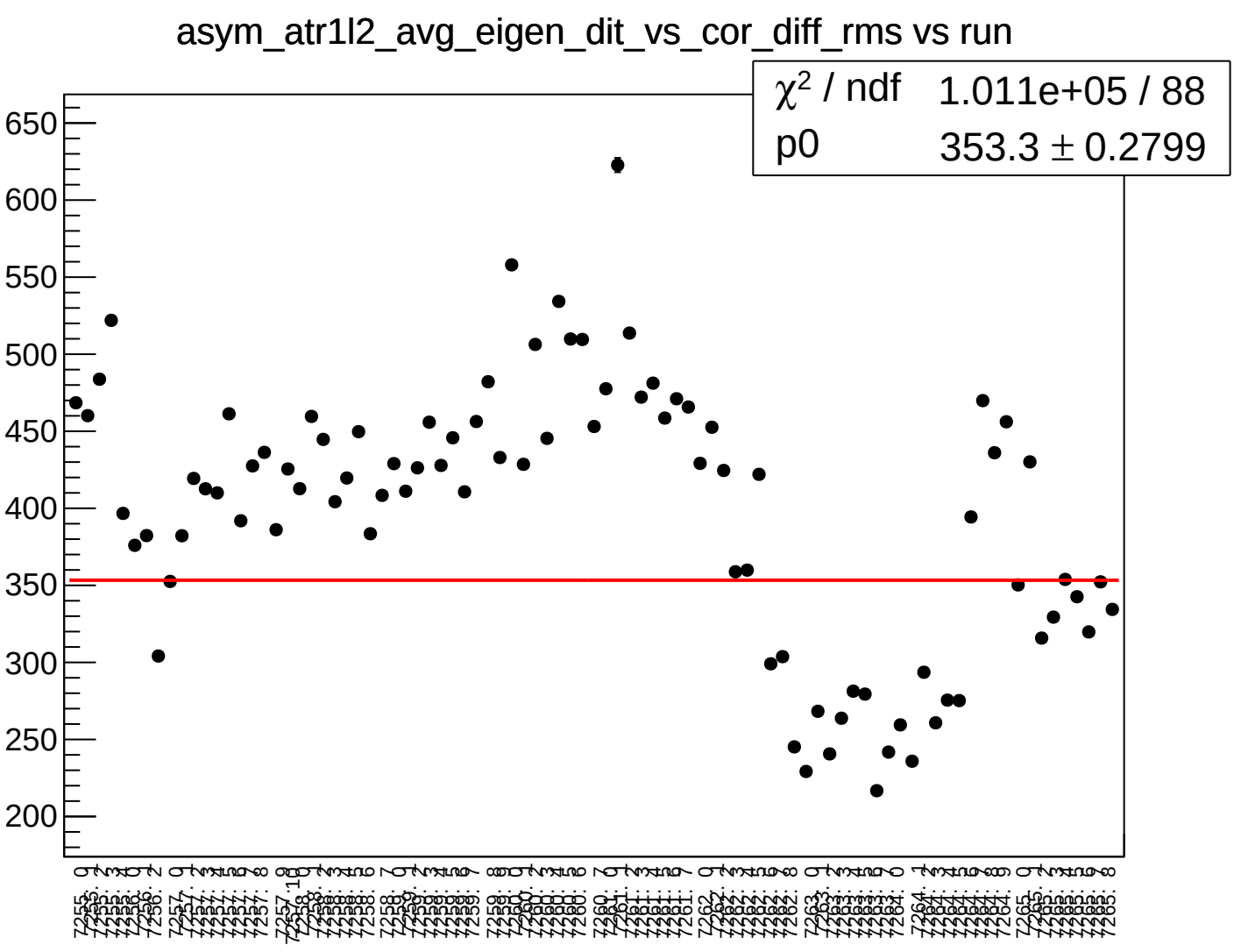

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.011e+05 / 88
p0 353.3 ± 0.2799
650
600
550
500
450
400
350
300
250
200

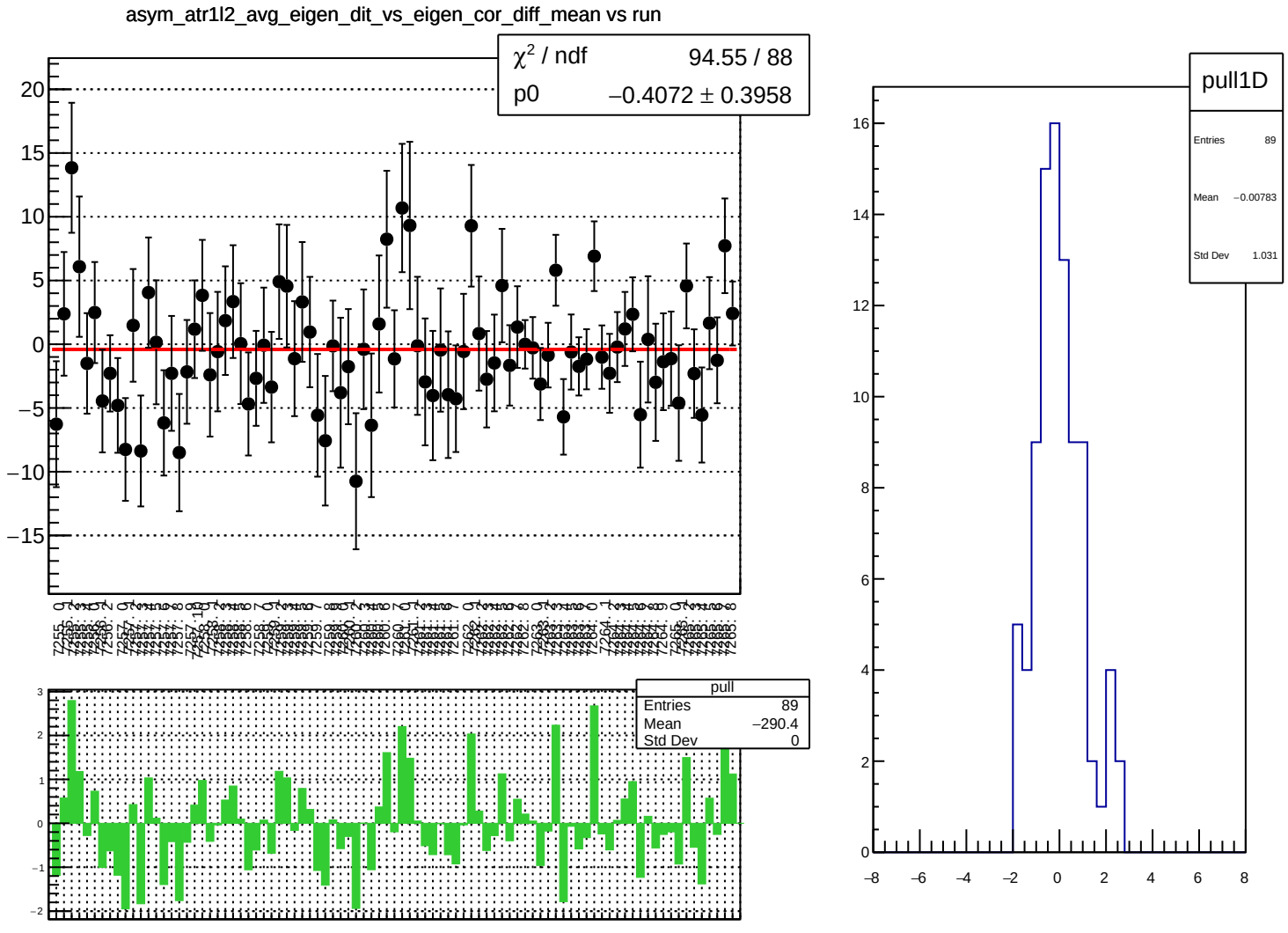

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.03 / 88
p0 7.306e−06 ± 1.15e−05
pull
Entries 89
Mean −942.6
Std Dev 0
pull1D
Entries 89
Mean 0.003652
Std Dev 0.9831

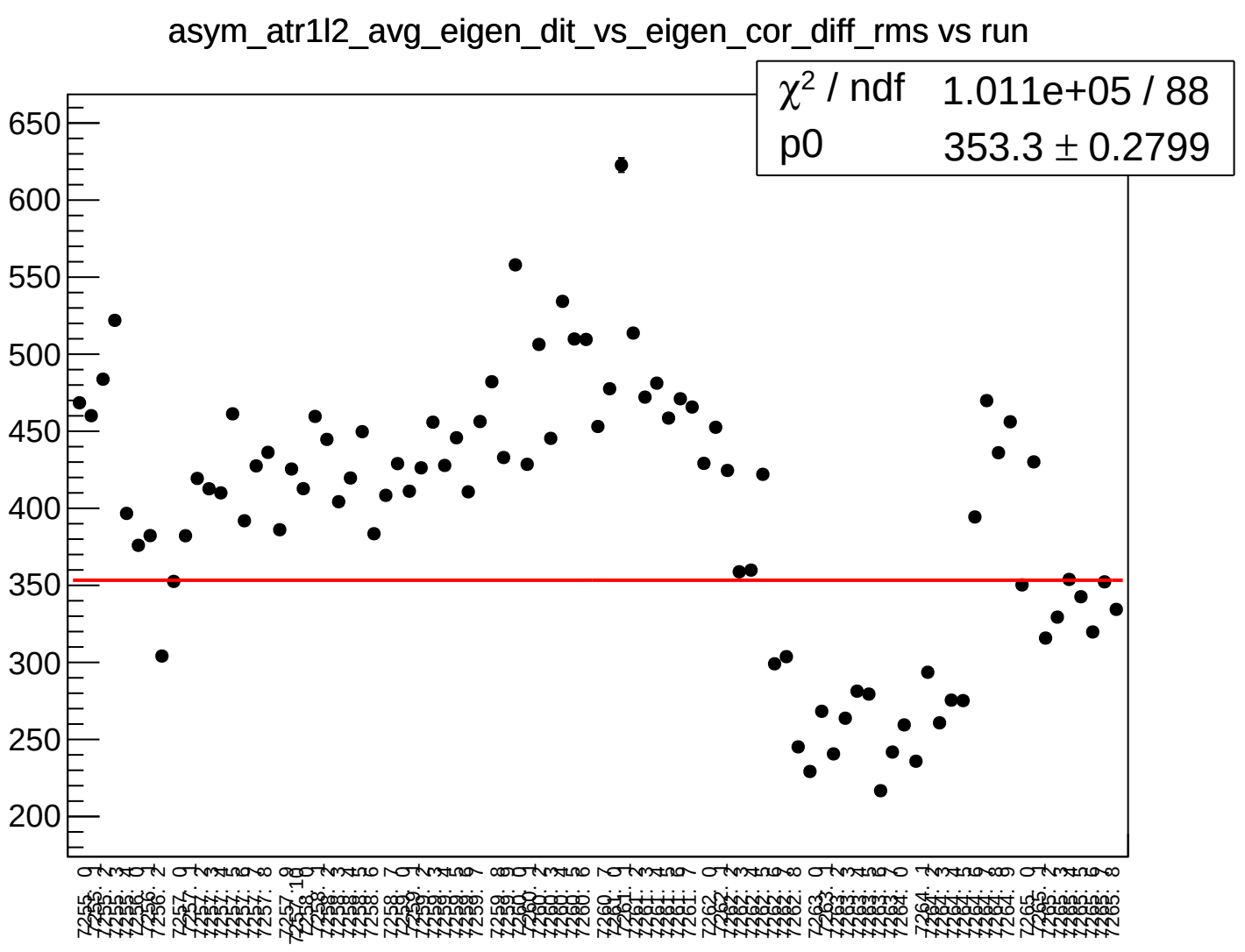

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5647 / 88
p0 0.01057 ± 8.132e–06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

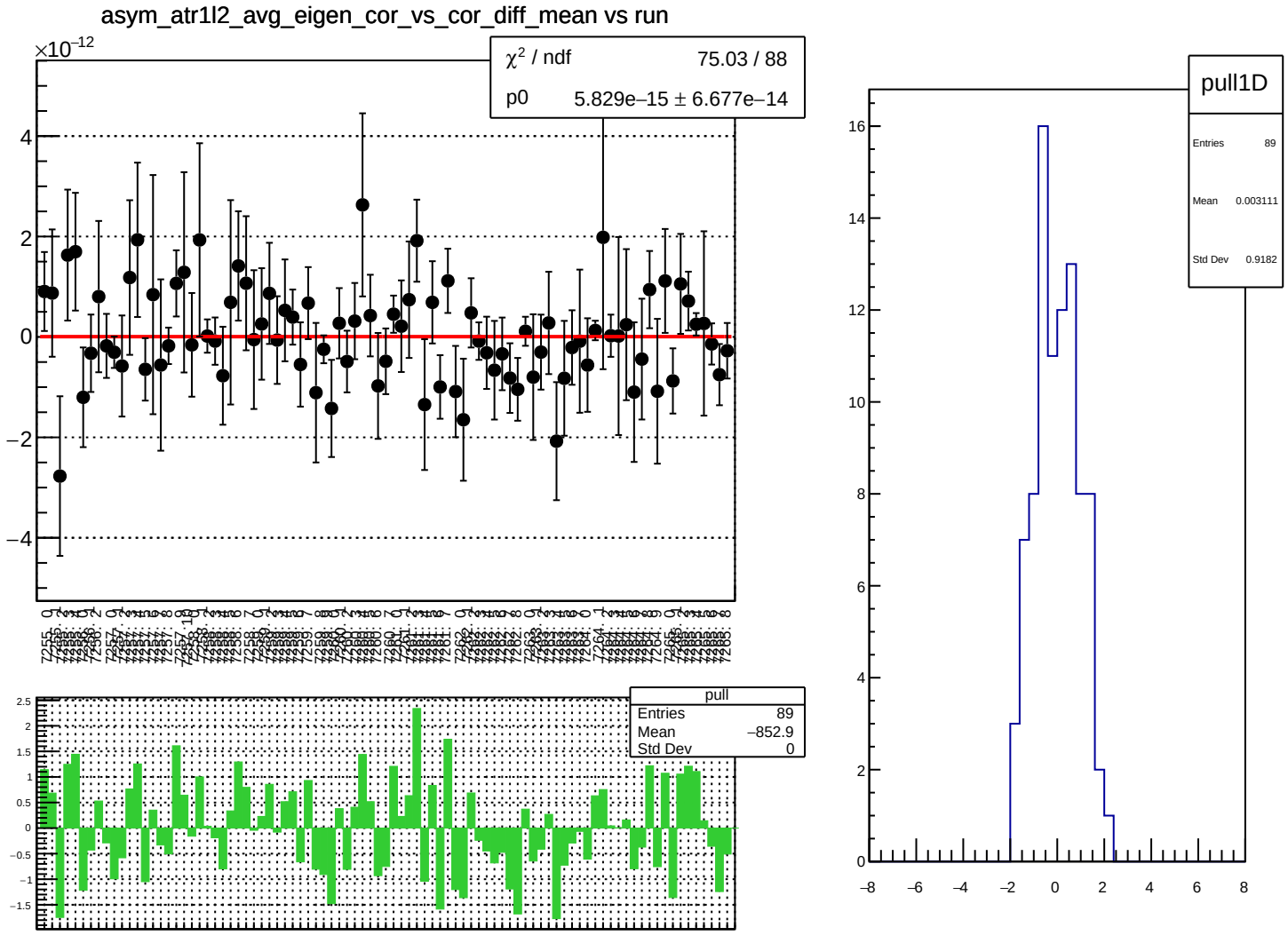

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.55 / 88
p0 −0.4072 ± 0.3958
pull
Entries 89
Mean −290.4
Std Dev 0

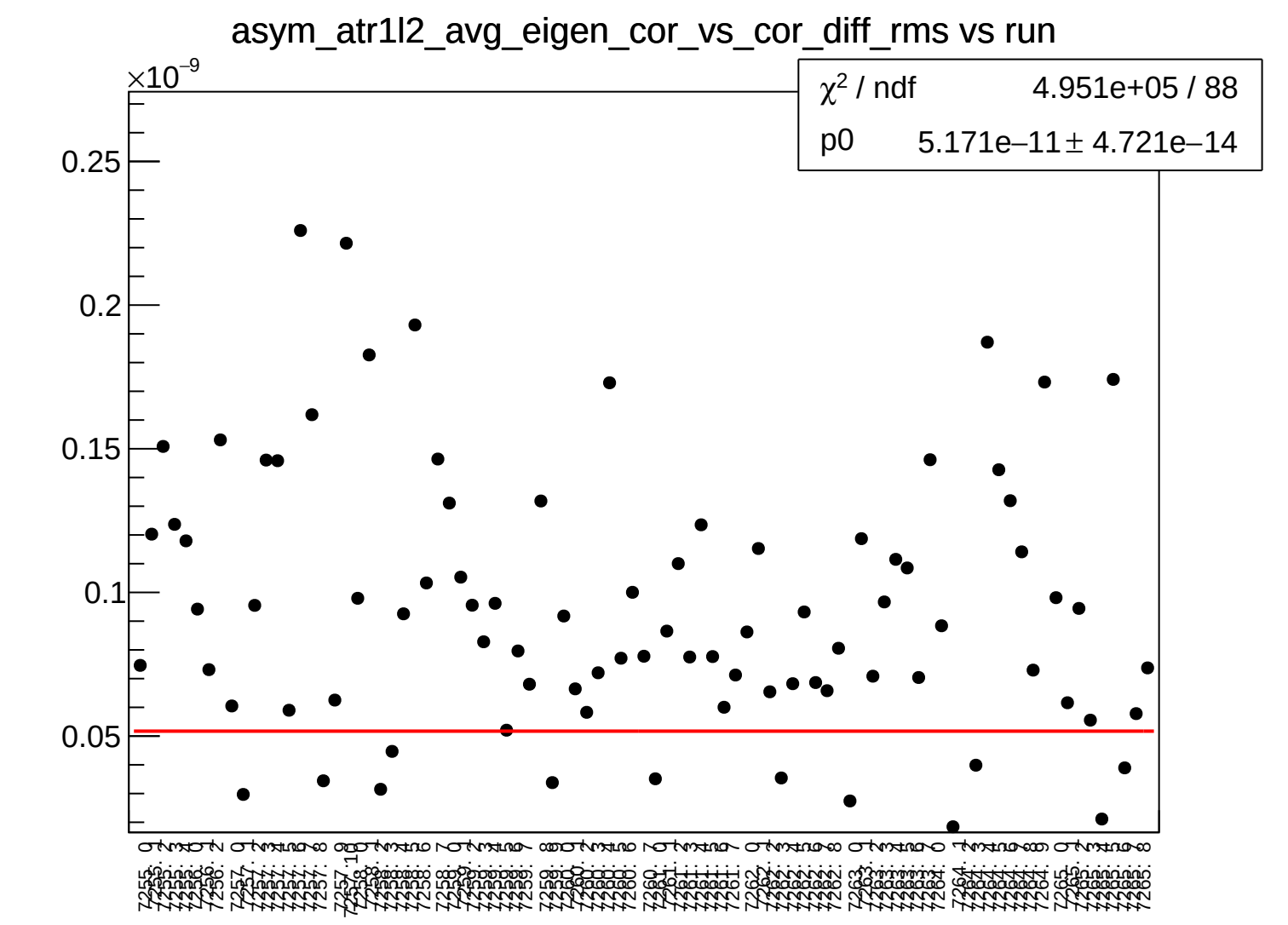

pull1D
Entries 89
Mean −0.00783
Std Dev 1.031

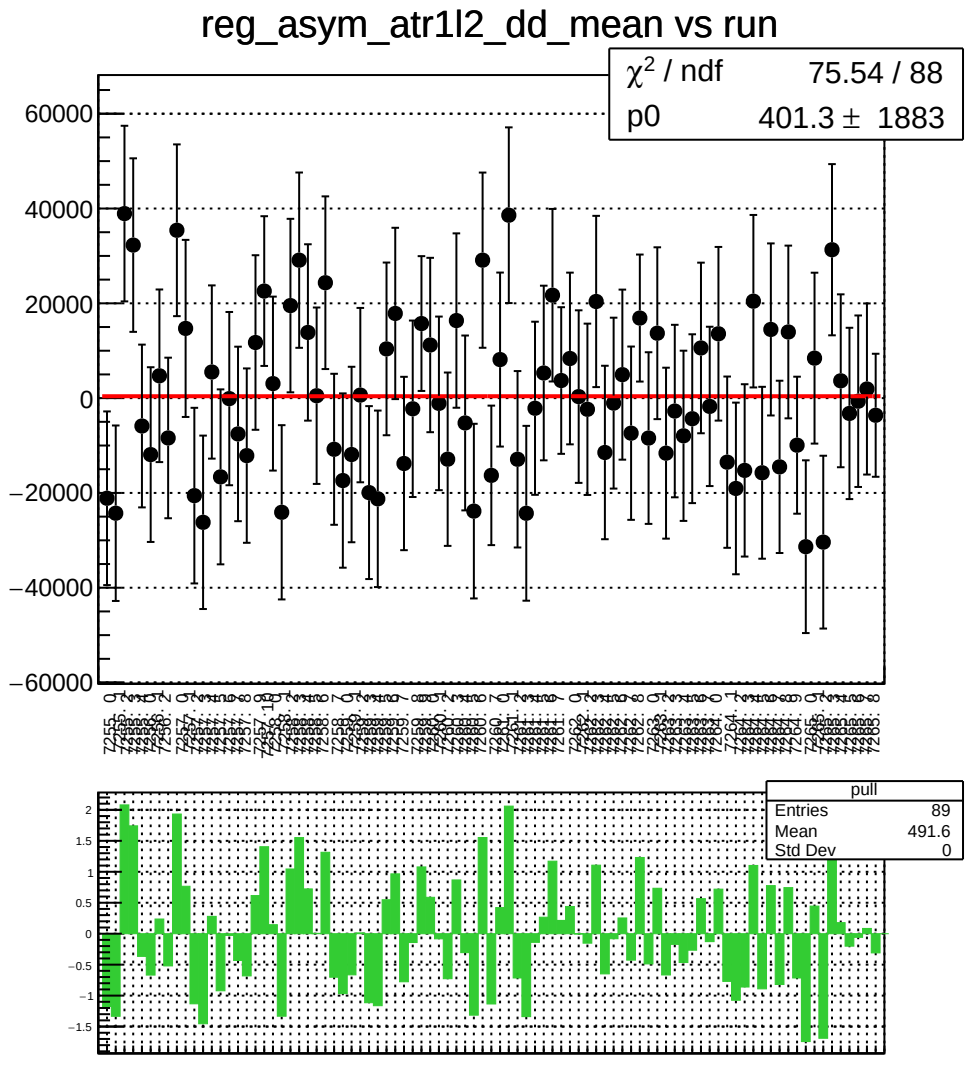

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.011e+05 / 88
p0 353.3 ± 0.2799
650
600
550
500
450
400
350
300
250
200

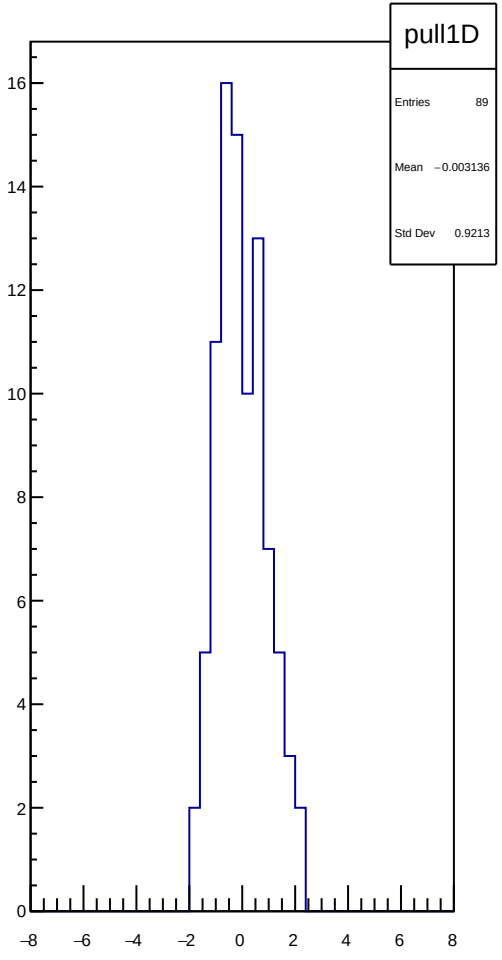

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.55 / 88
p0 −0.4072 ± 0.3958
pull
Entries 89
Mean −290.4
Std Dev 0
pull1D
Entries 89
Mean −0.00783
Std Dev 1.031

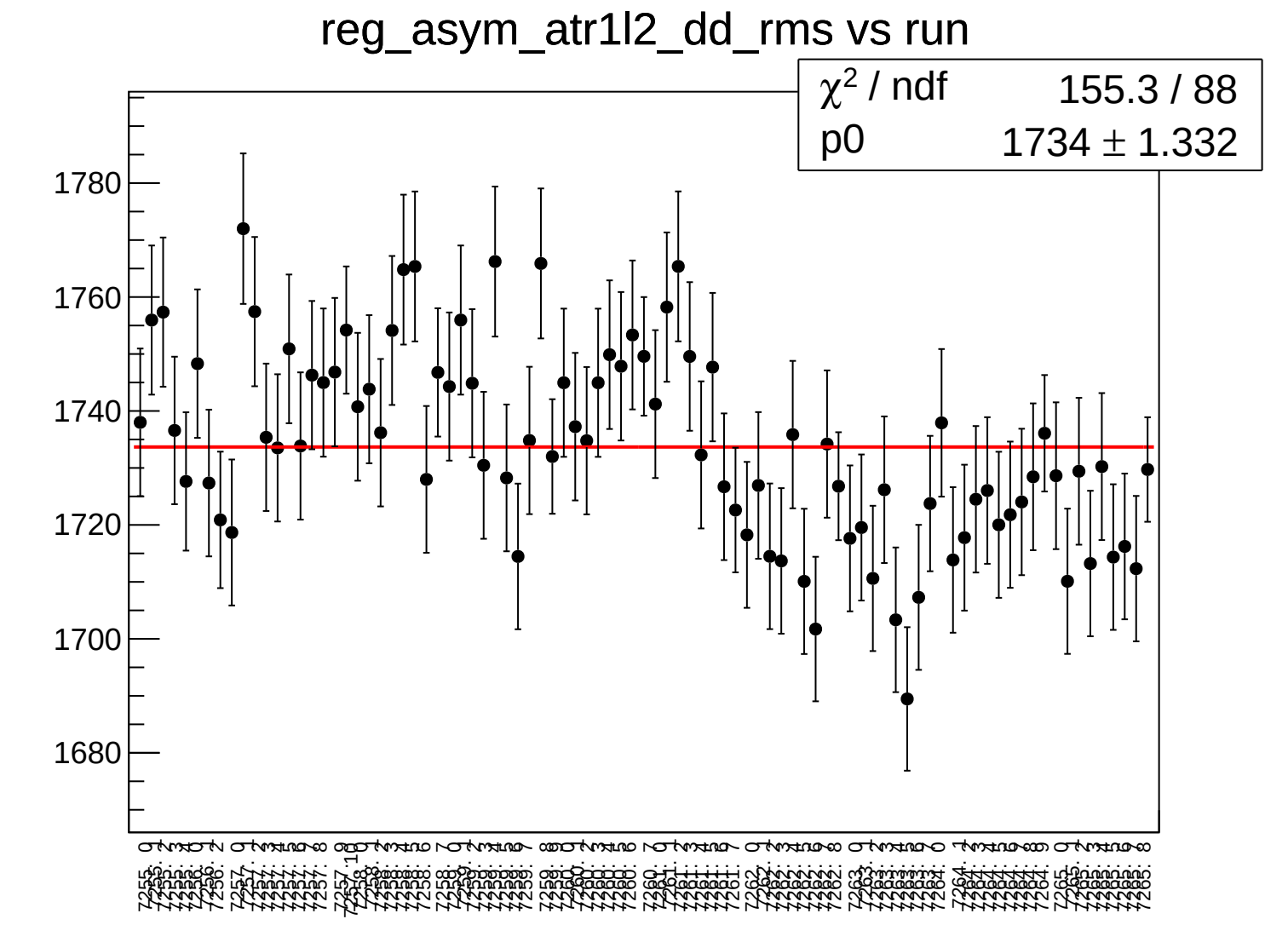

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.011e+05 / 88
p0 353.3 ± 0.2799
650
600
550
500
450
400
350
300
250
200

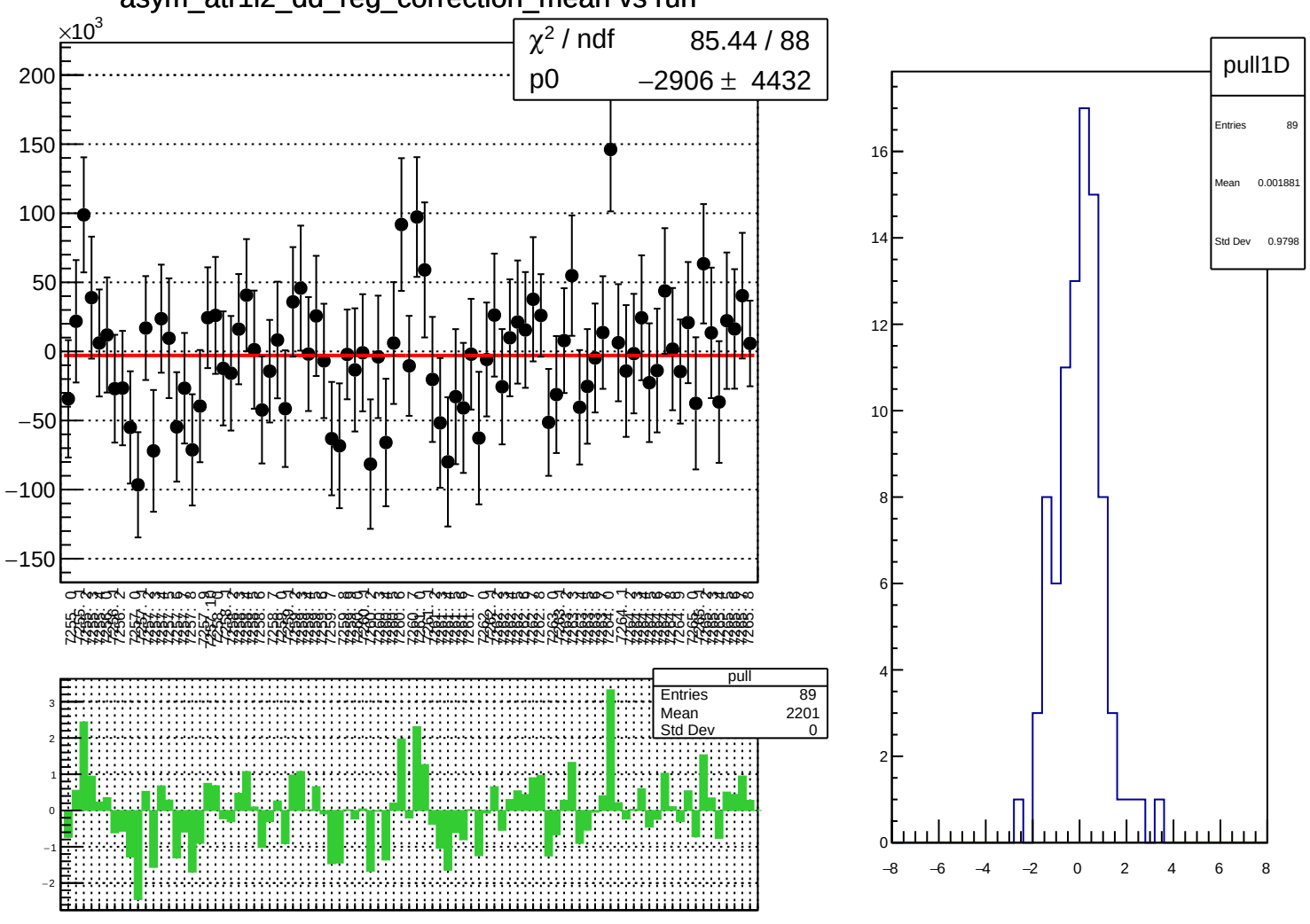

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.03 / 88
p0 5.829e−15 ± 6.677e−14
pull
Entries 89
Mean −852.9
Std Dev 0
pull1D
Entries 89
Mean 0.003111
Std Dev 0.9182

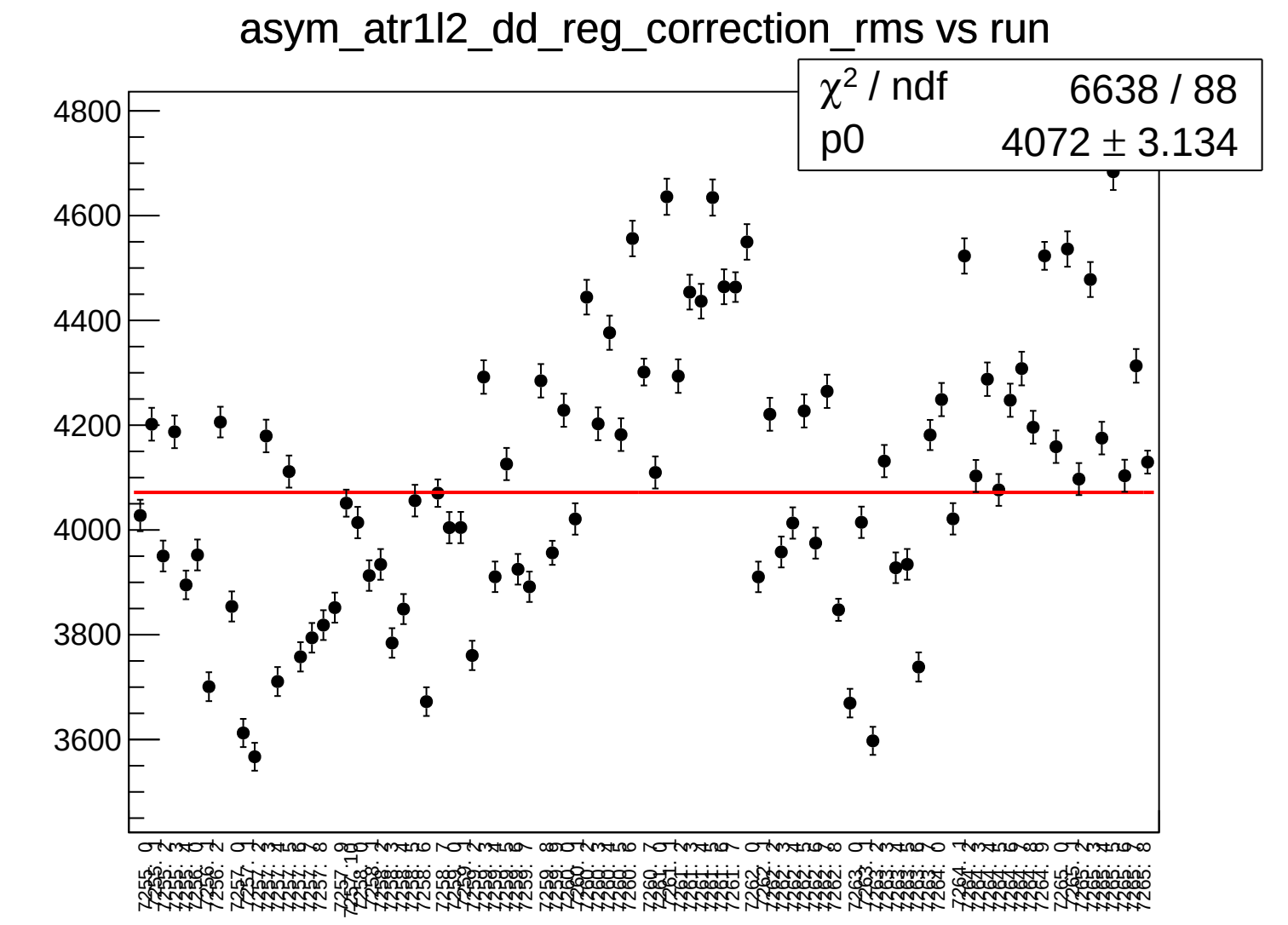

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.951e+05 / 88
p0 5.171e−11 ± 4.721e−14
0.25
0.2
0.15
0.1
0.05

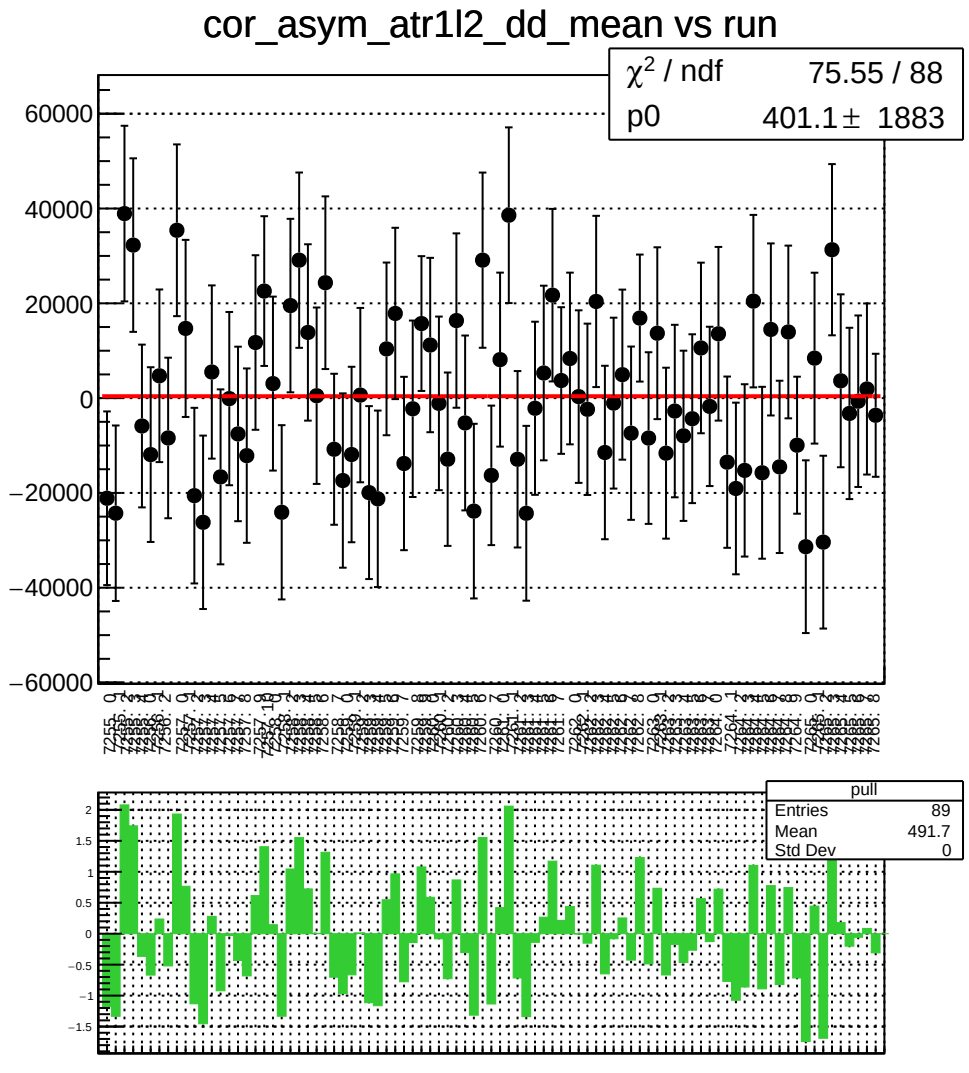

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 75.54 / 88
p0 401.3 ± 1883
pull
Entries 89
Mean 491.6
Std Dev 0

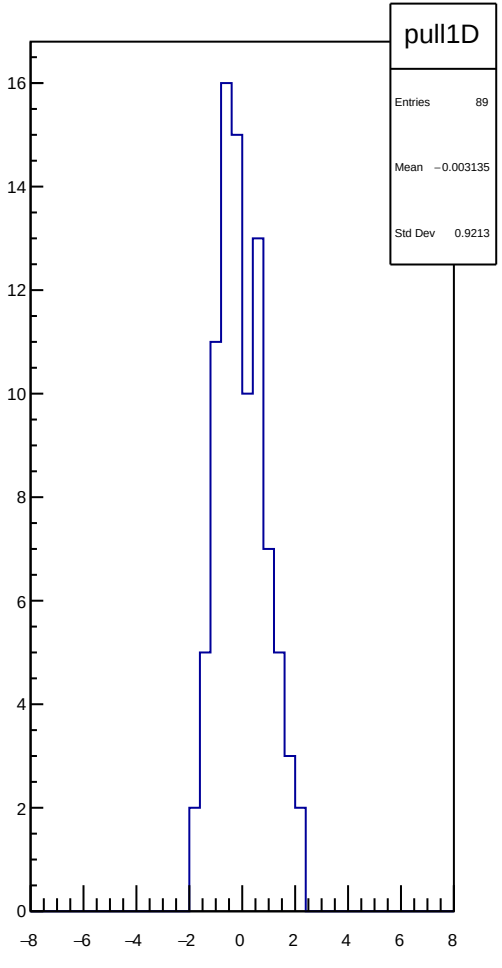

pull1D
Entries 89
Mean −0.003136
Std Dev 0.9213

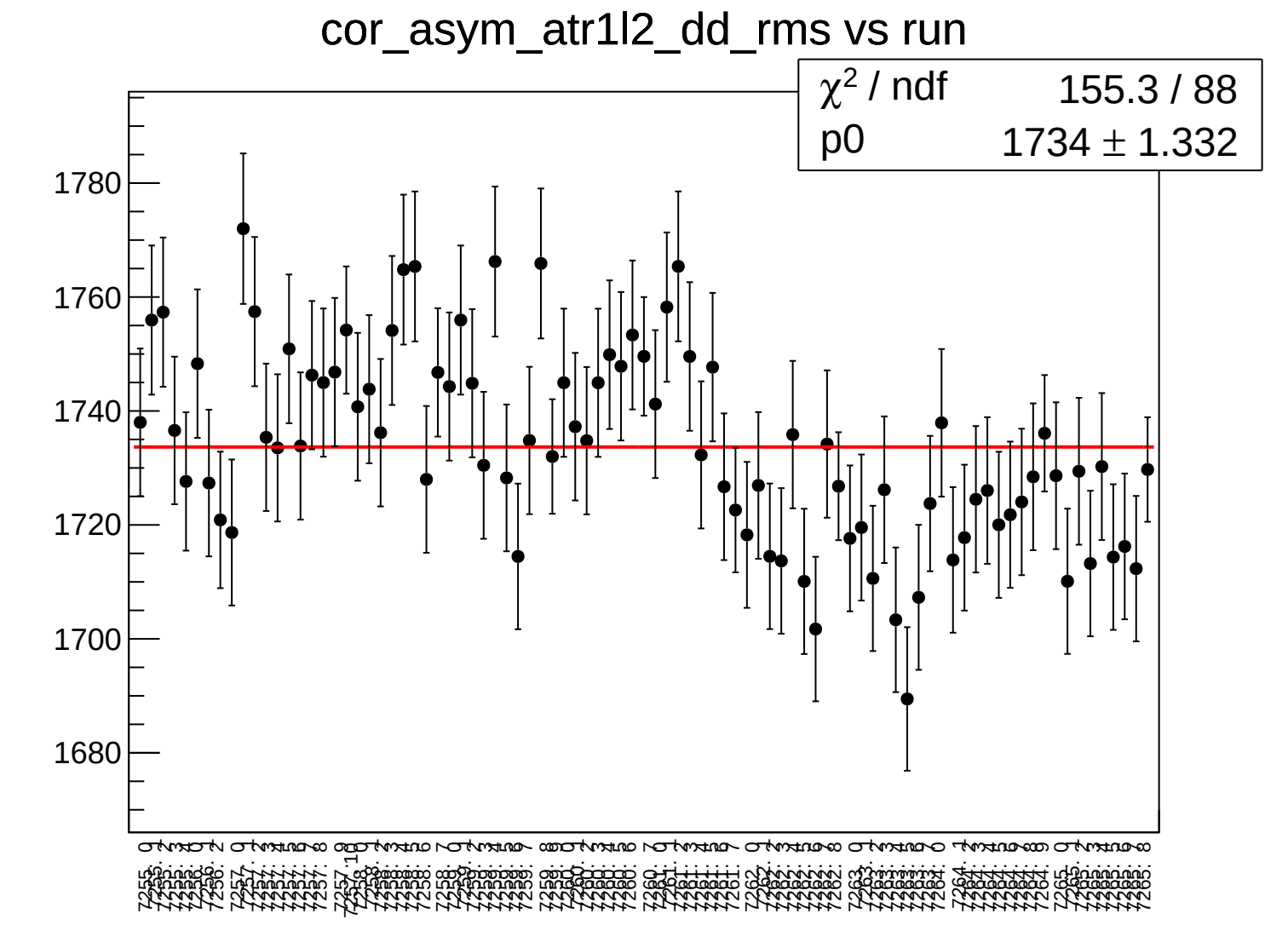

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 155.3 / 88
p0 1734 ± 1.332
1780
1760
1740
1720
1700
1680

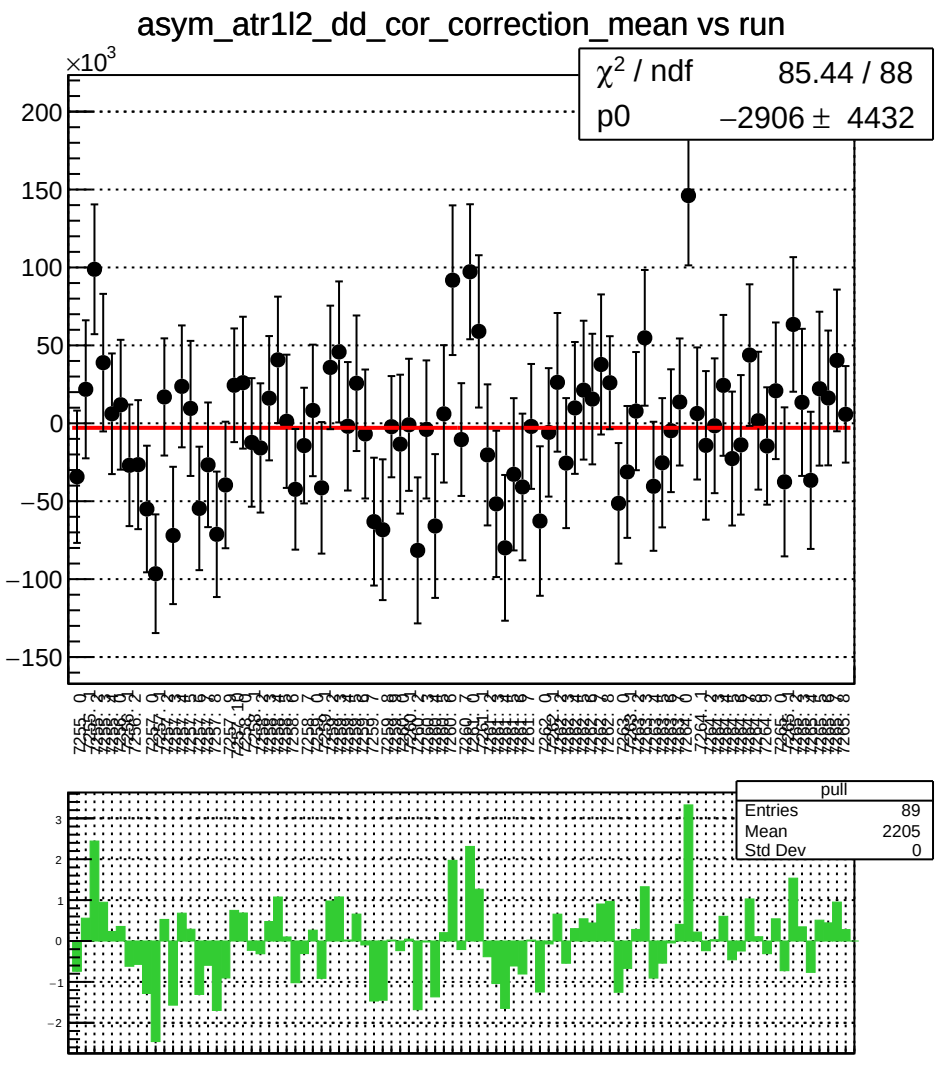

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 85.44 / 88
p0 −2906 ± 4432
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 2201
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.001881
Std Dev 0.9798
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

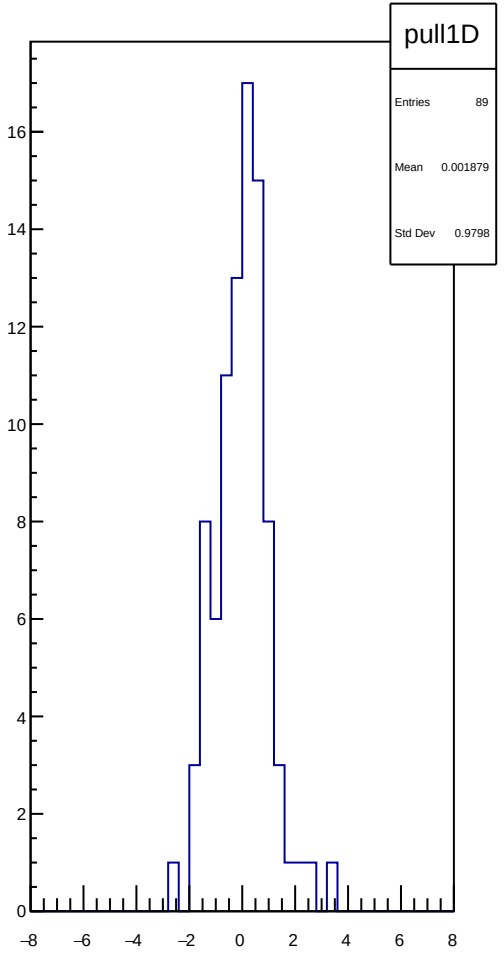

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 6638 / 88
p0 4072 ± 3.134
4800
4600
4400
4200
4000
3800
3600

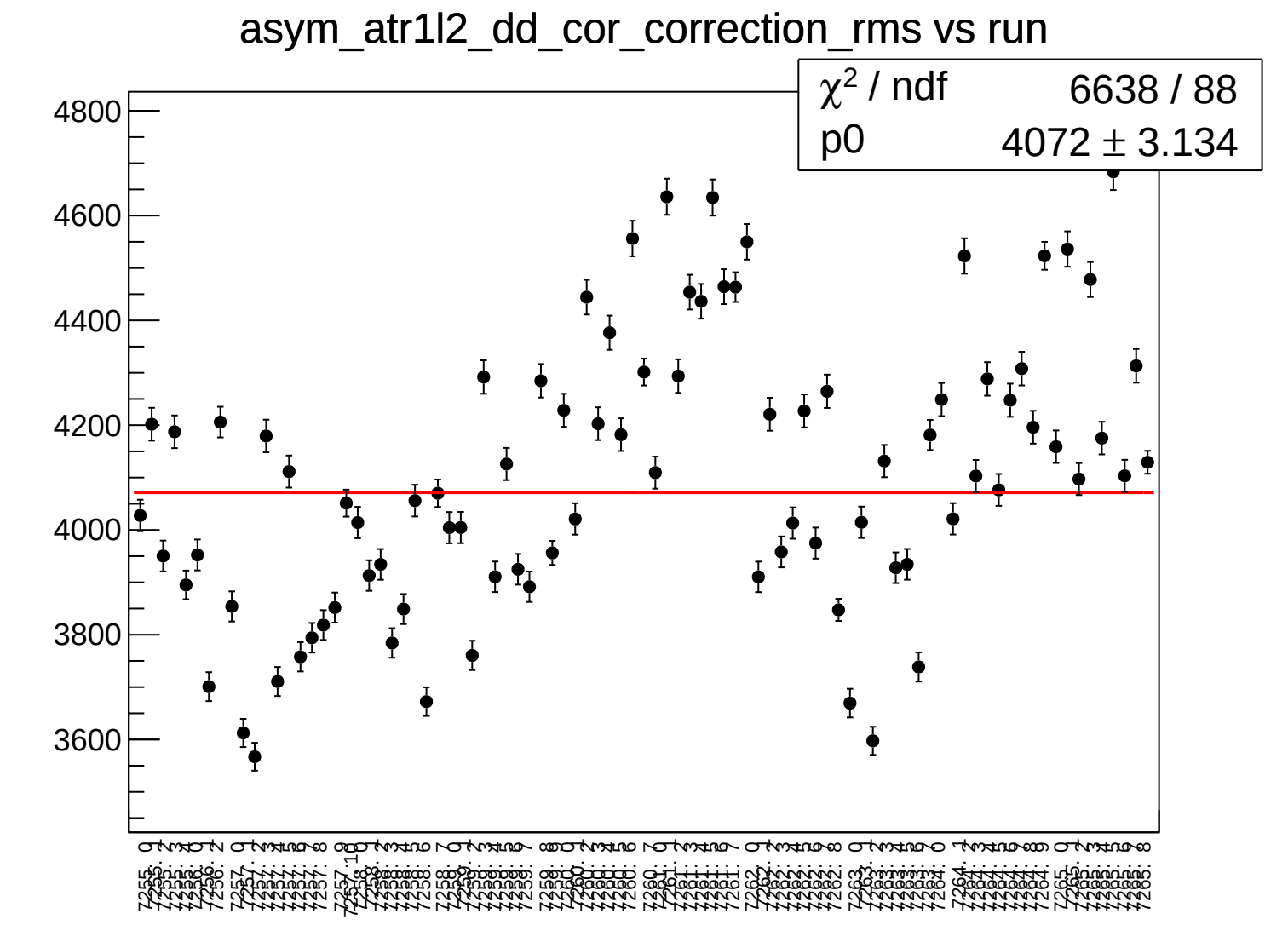

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 75.55 / 88
p0 401.1 ± 1883
pull
Entries 89
Mean 491.7
Std Dev 0

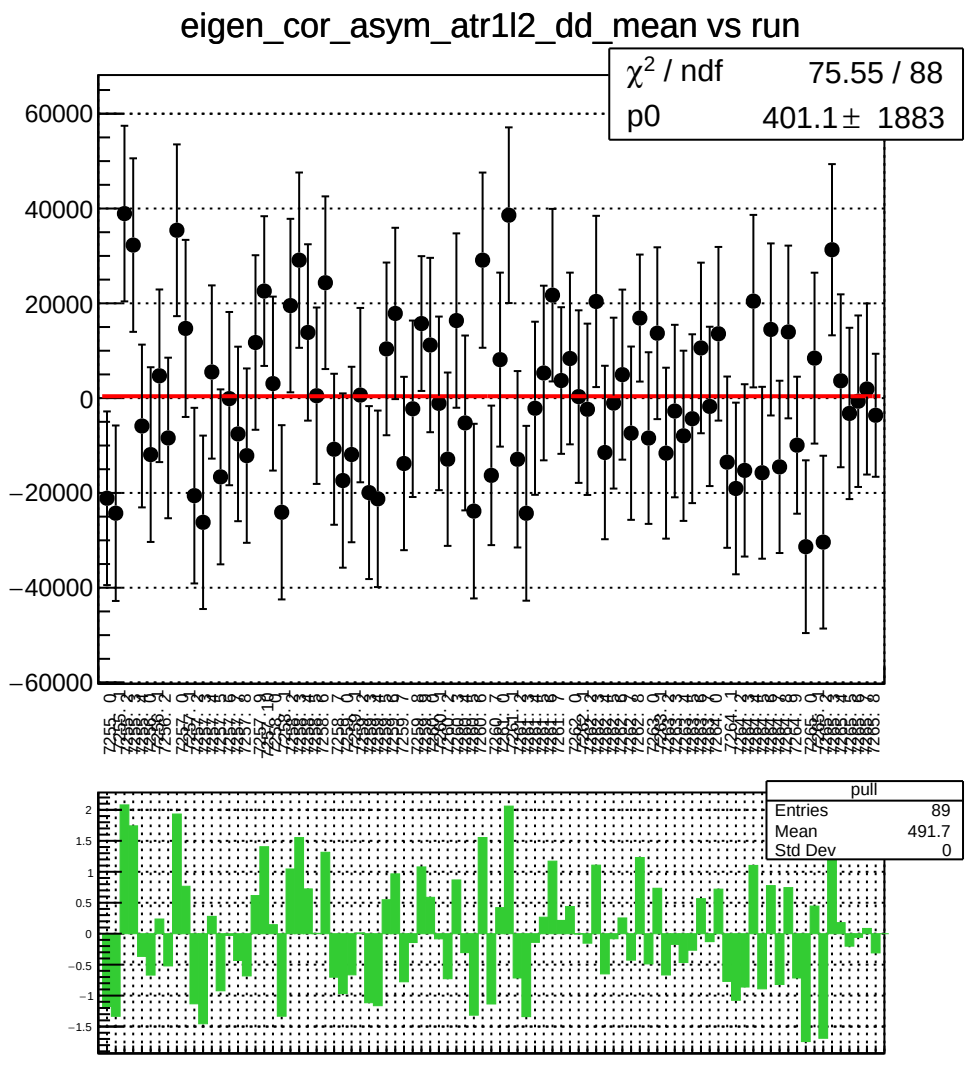

pull1D
Entries 89
Mean −0.003135
Std Dev 0.9213

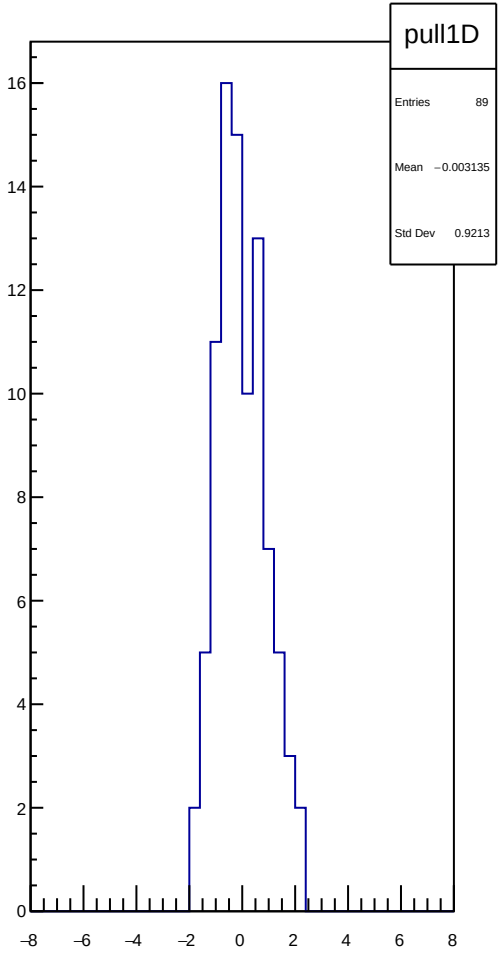

cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 155.3 / 88
p0 1734 ± 1.332
1780
1760
1740
1720
1700
1680

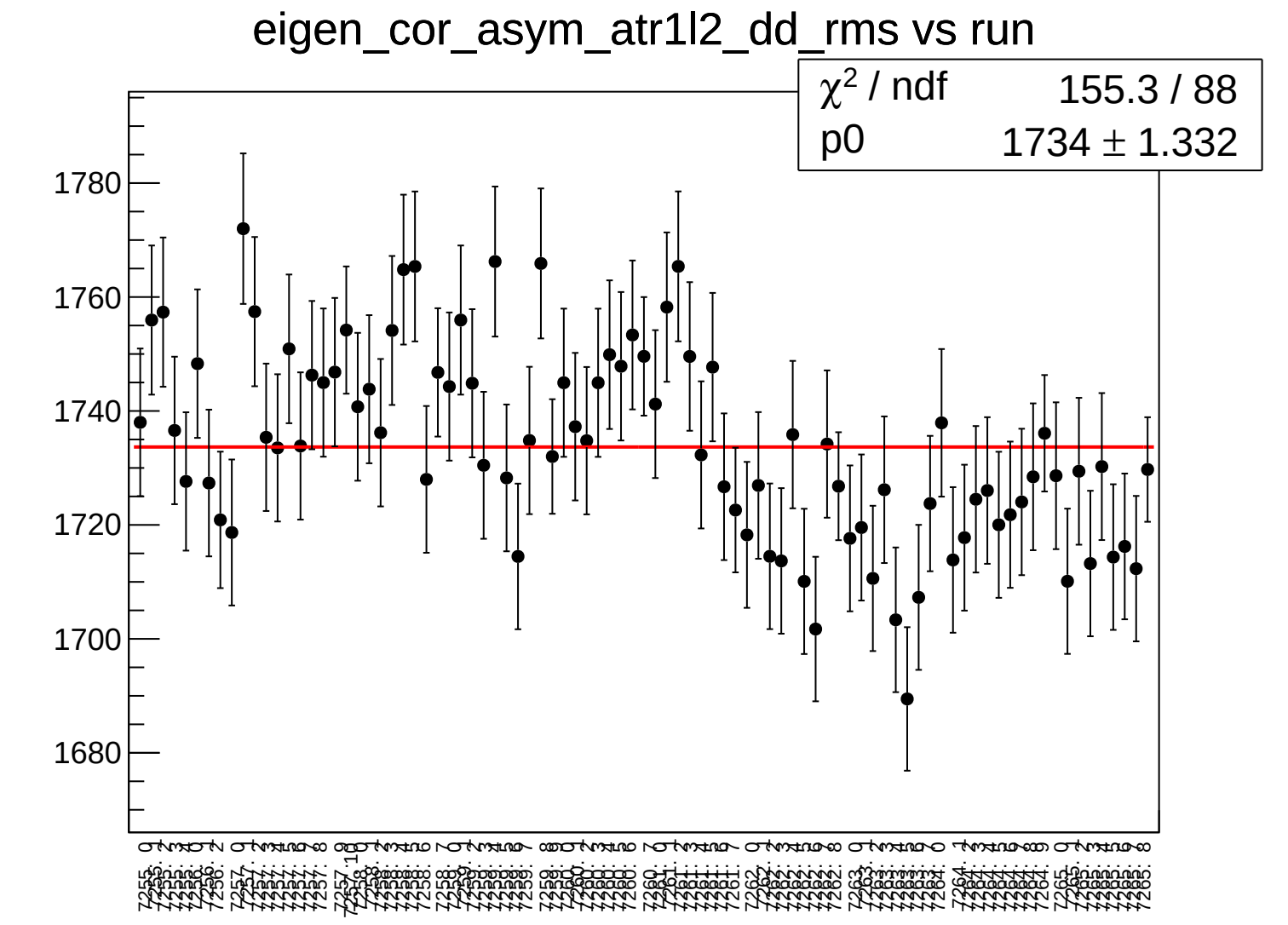

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 85.44 / 88
p0 −2906 ± 4432
pull
Entries 89
Mean 2205
Std Dev 0

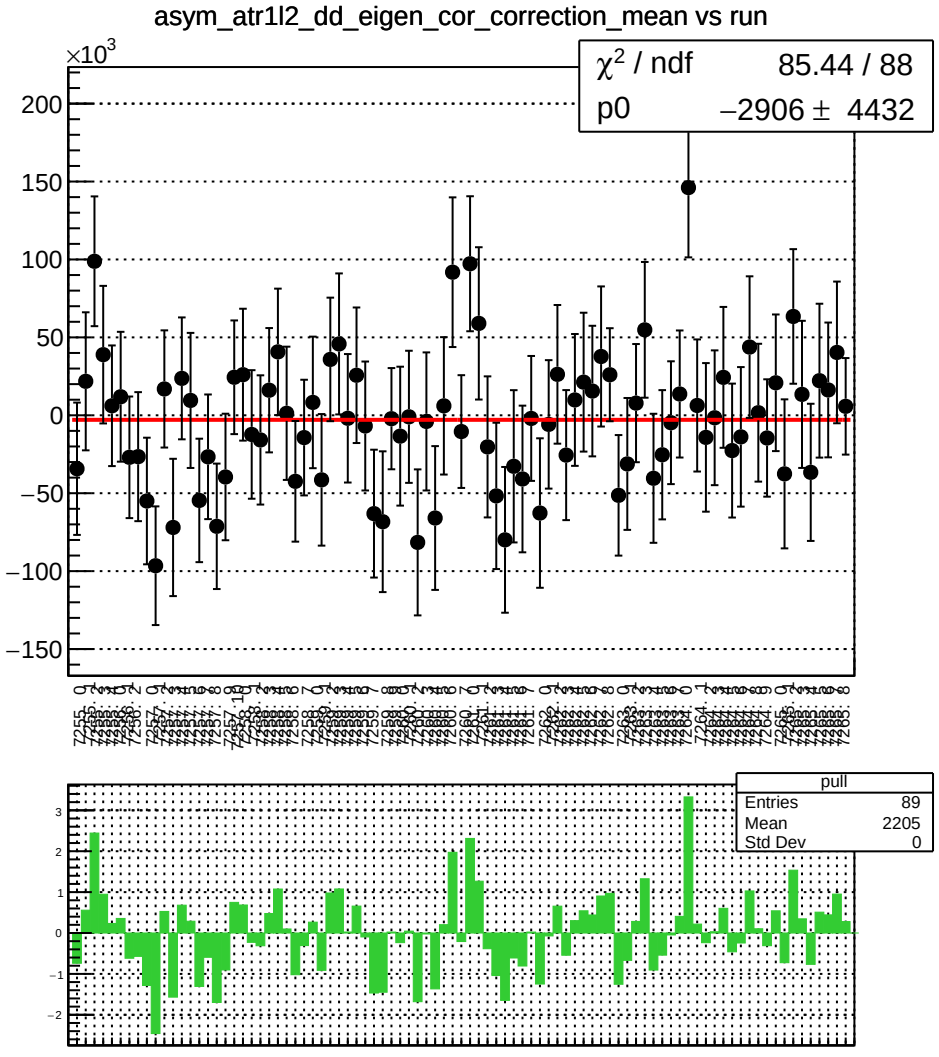

pull1D
Entries 89
Mean 0.001879
Std Dev 0.9798

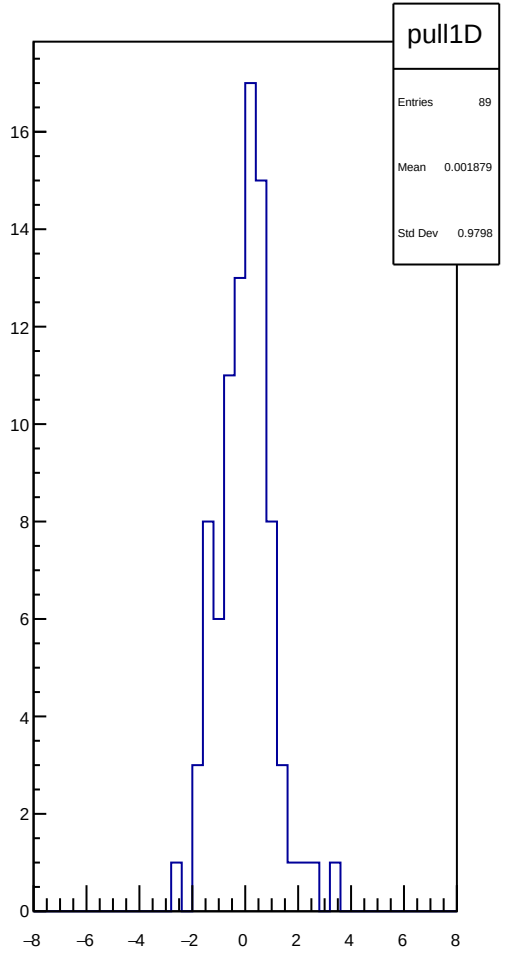

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 6638 / 88
p0 4072 ± 3.134
4800
4600
4400
4200
4000
3800
3600

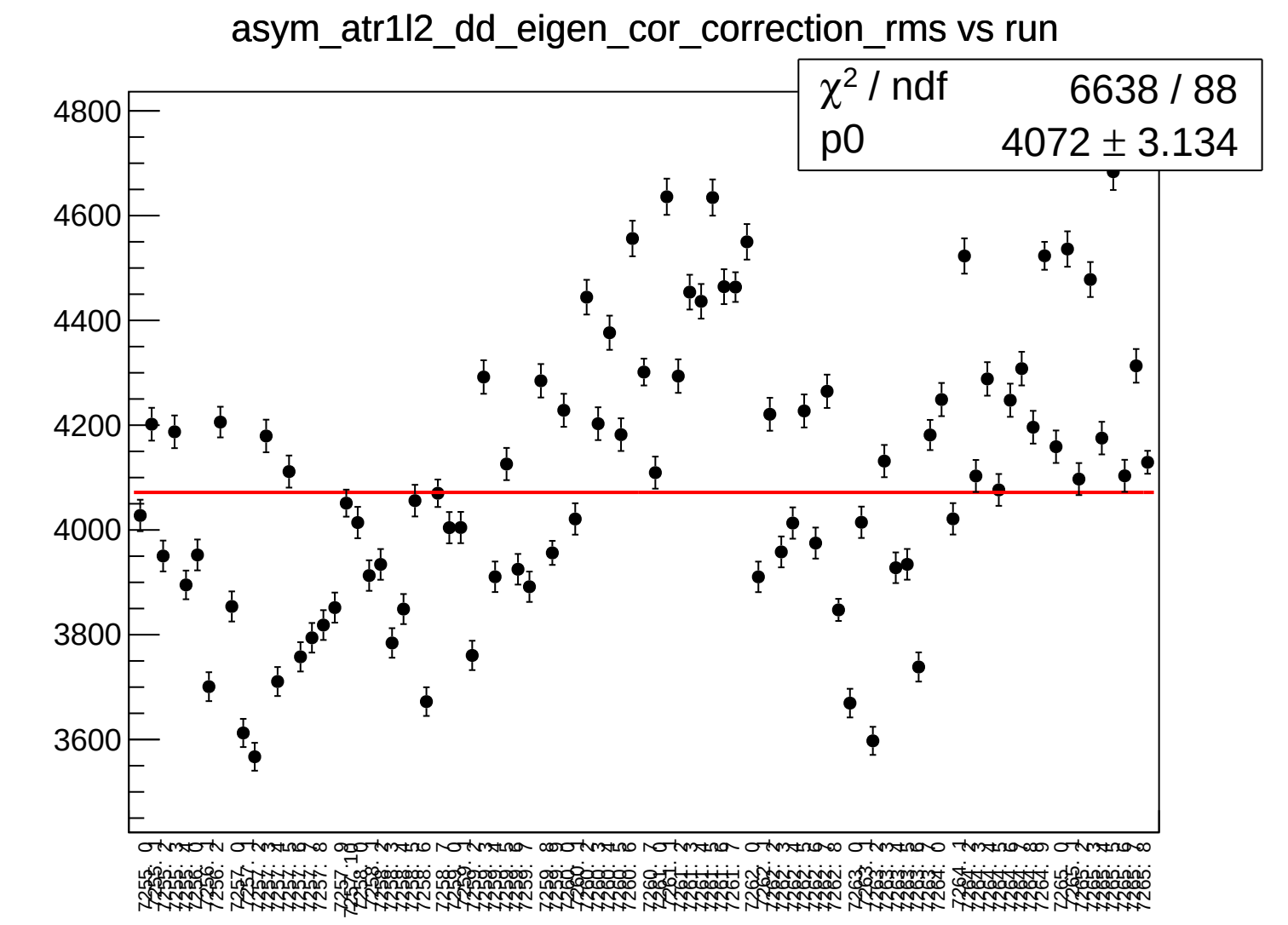

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 75.55 / 88
p0 401.1 ± 1883
pull
Entries 89
Mean 491.7
Std Dev 0

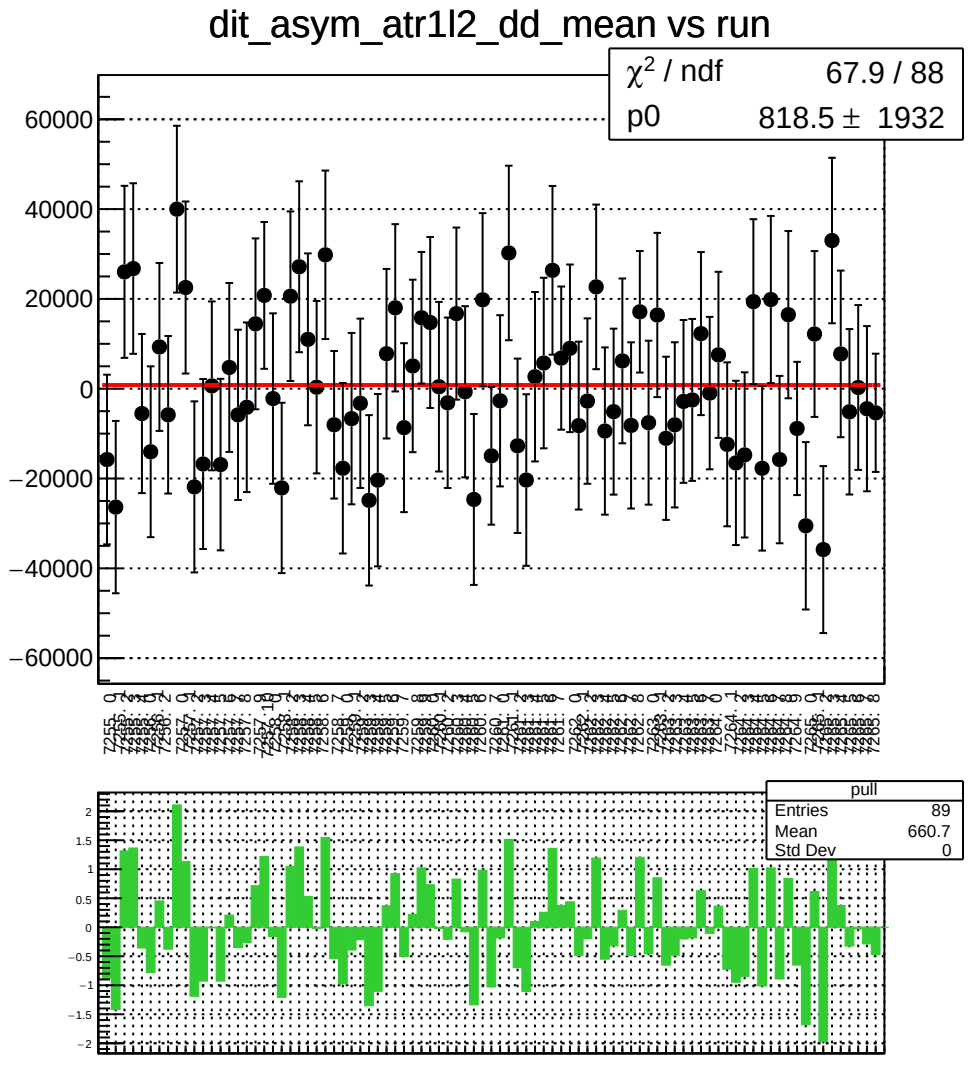

pull1D
Entries 89
Mean −0.003135
Std Dev 0.9213

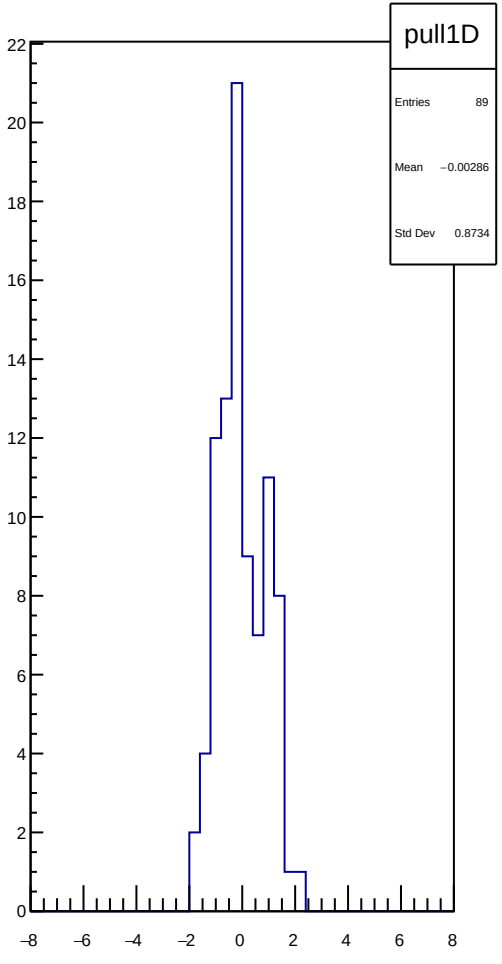

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 155.3 / 88
p0 1734 ± 1.332
1780
1760
1740
1720
1700
1680

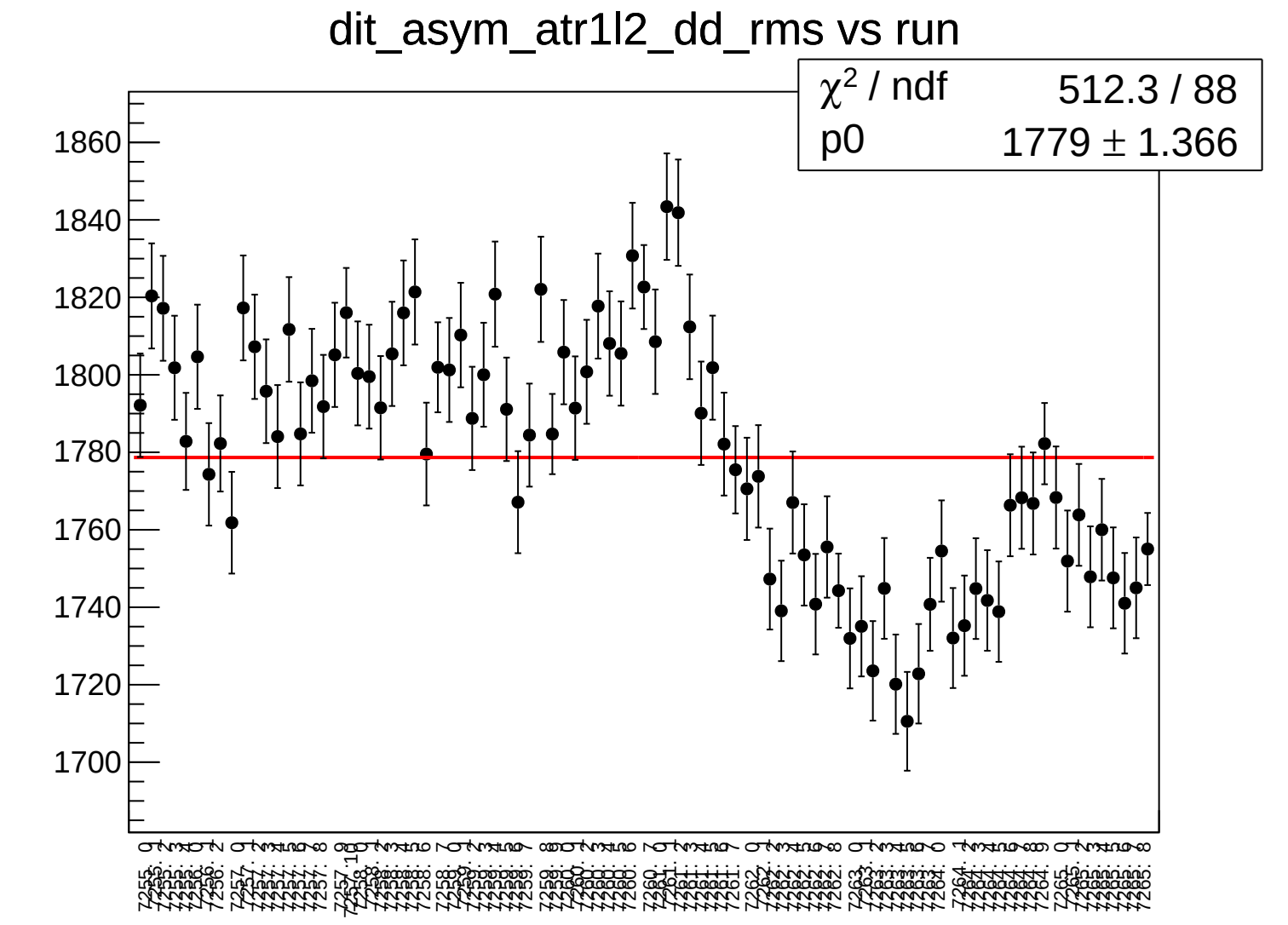

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.44 / 88
p0 −2906 ± 4432
pull
Entries 89
Mean 2205
Std Dev 0

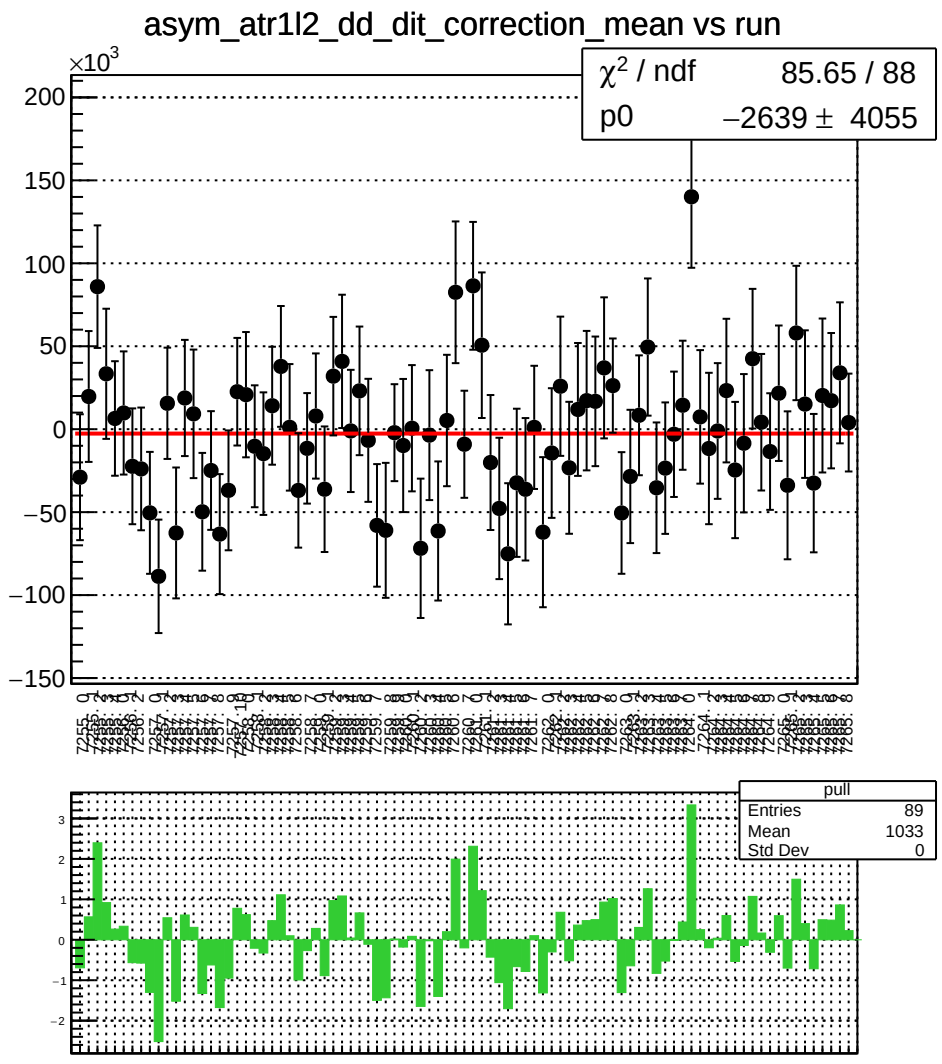

pull1D
Entries 89
Mean 0.001879
Std Dev 0.9798

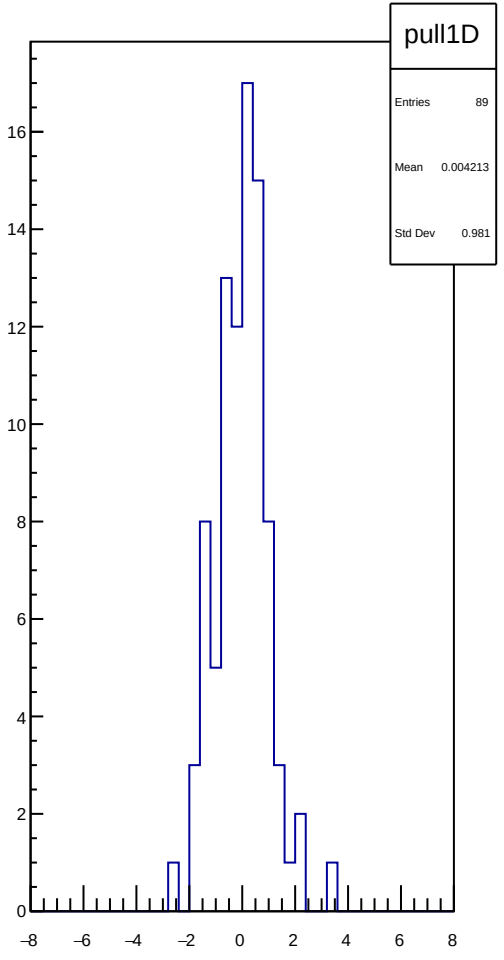

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6638 / 88
p0 4072 ± 3.134
4800
4600
4400
4200
4000
3800
3600

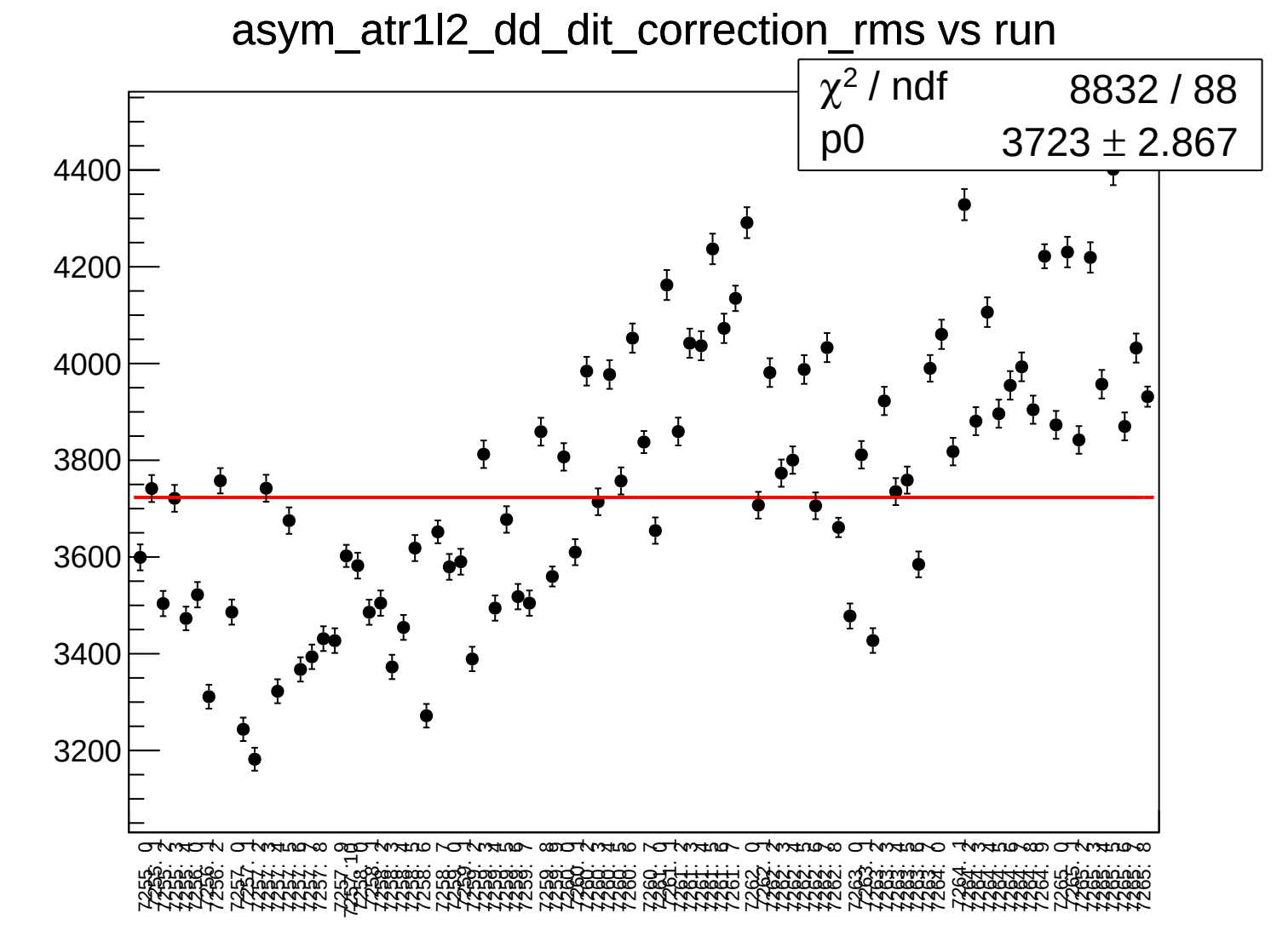

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 67.9 / 88
p0 818.5 ± 1932
pull
Entries 89
Mean 660.7
Std Dev 0

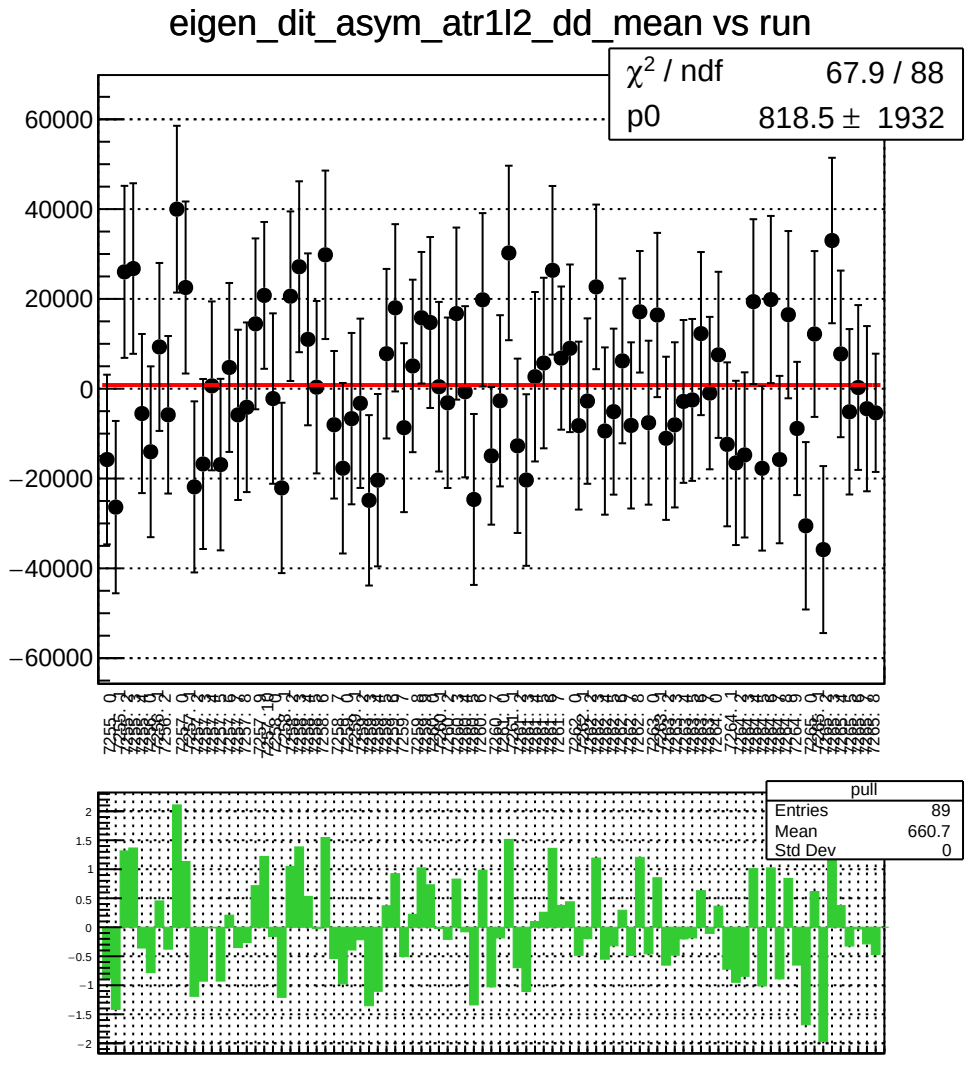

pull1D
Entries 89
Mean −0.00286
Std Dev 0.8734

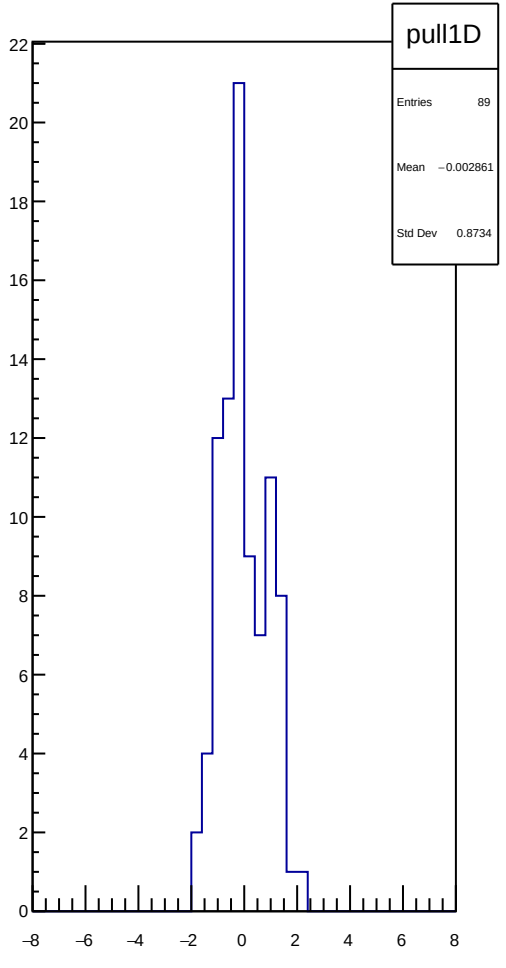

dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 512.3 / 88
p0 1779 ± 1.366
1860
1840
1820
1800
1780
1760
1740
1720
1700

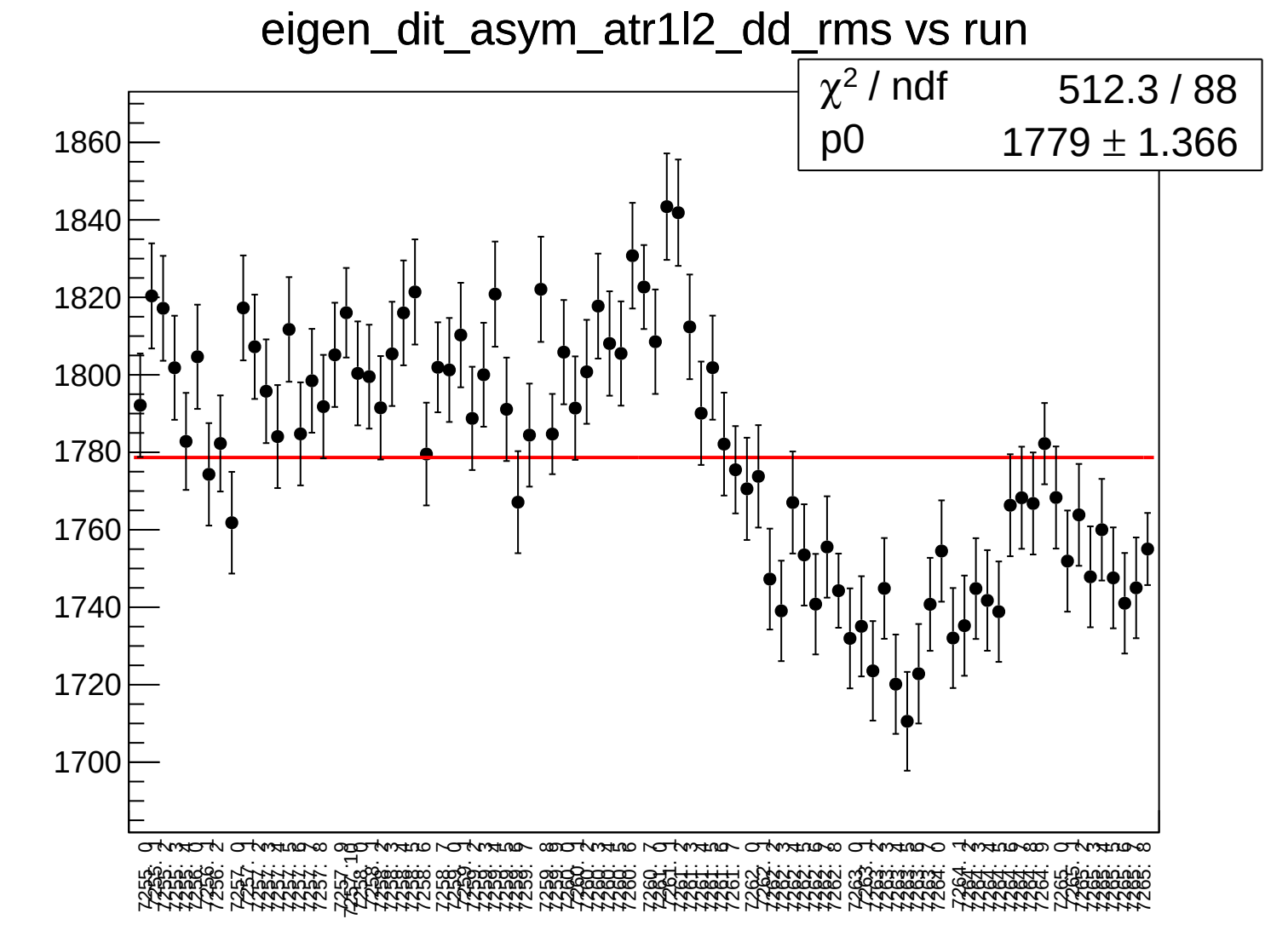

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 85.65 / 88
p0 −2639 ± 4055
pull
Entries 89
Mean 1033
Std Dev 0

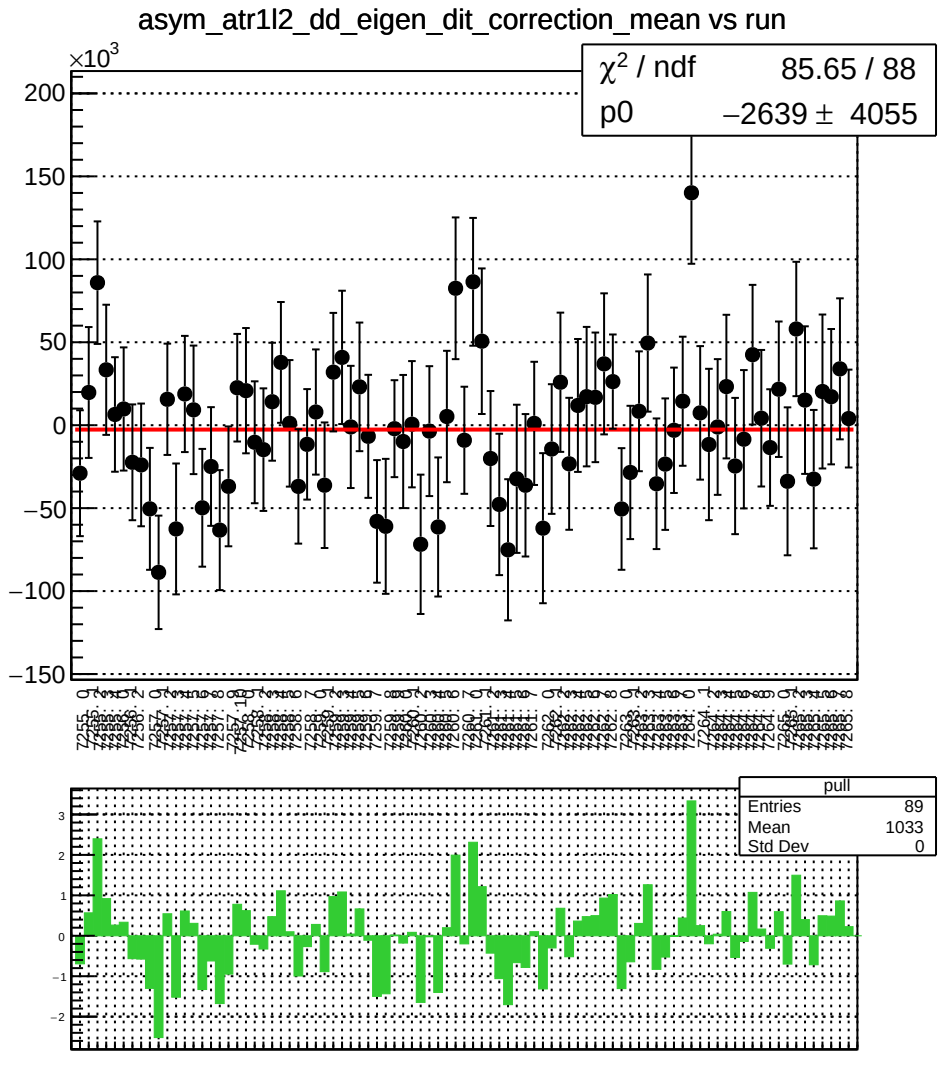

pull1D
Entries 89
Mean 0.004213
Std Dev 0.981

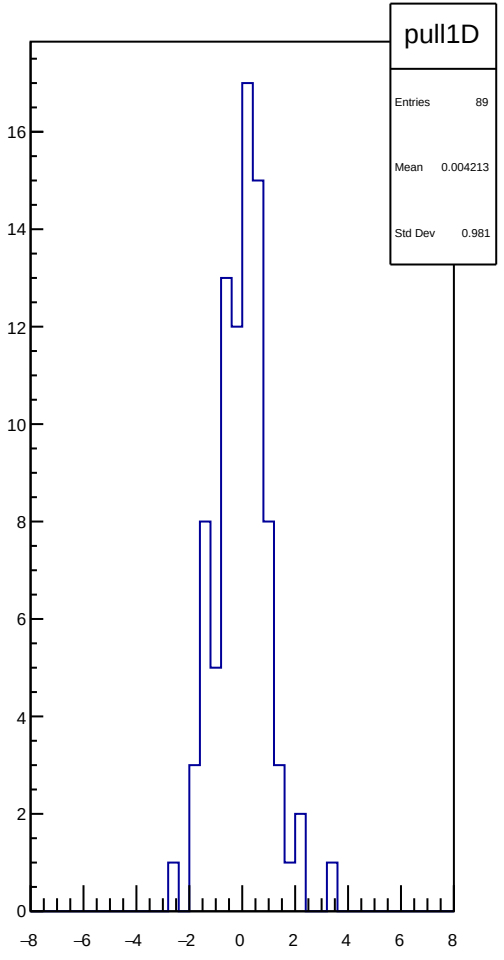

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 8832 / 88
p0 3723 ± 2.867
4400
4200
4000
3800
3600
3400
3200

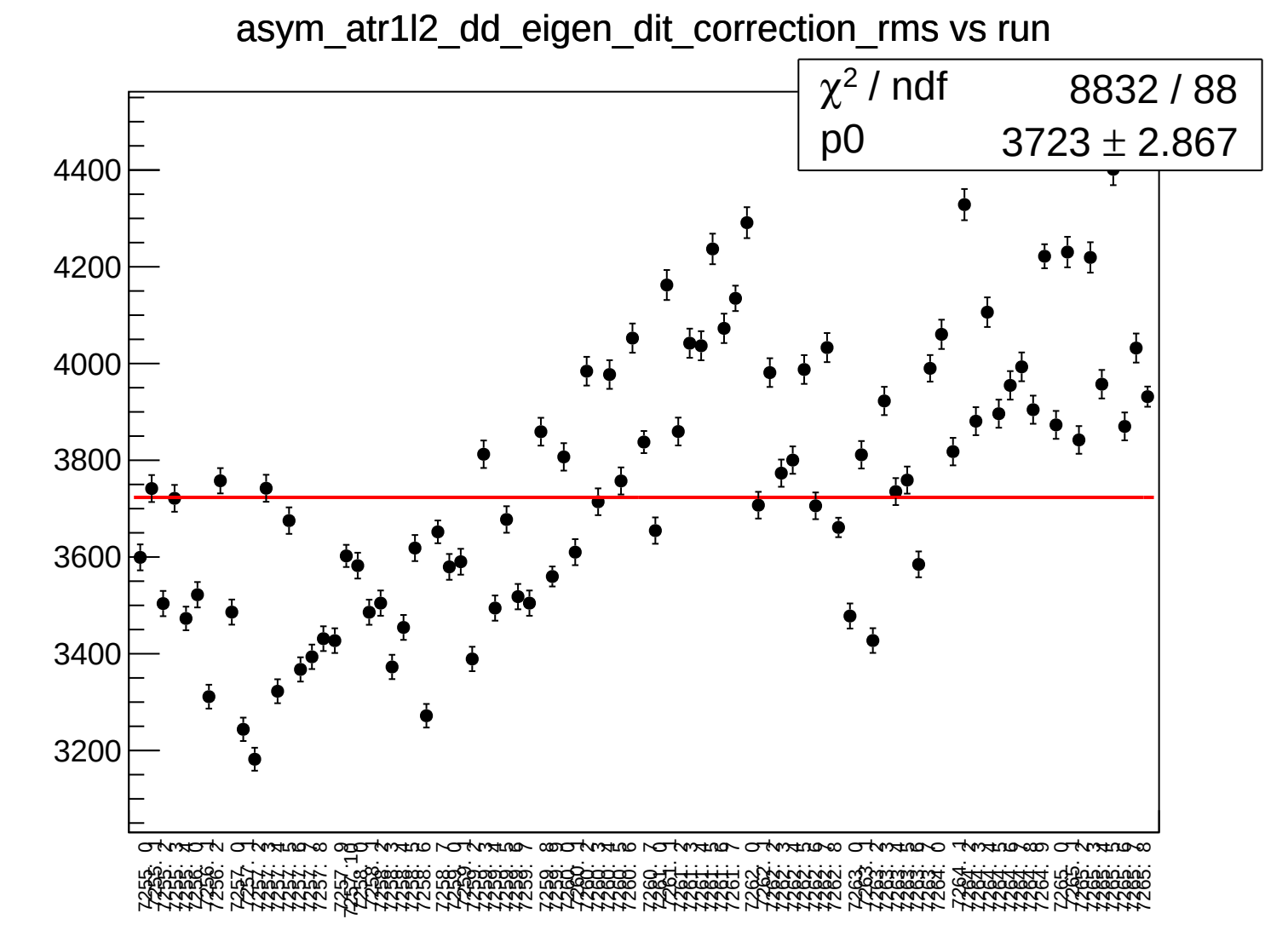

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 67.9 / 88
p0 818.5 ± 1932
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 660.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

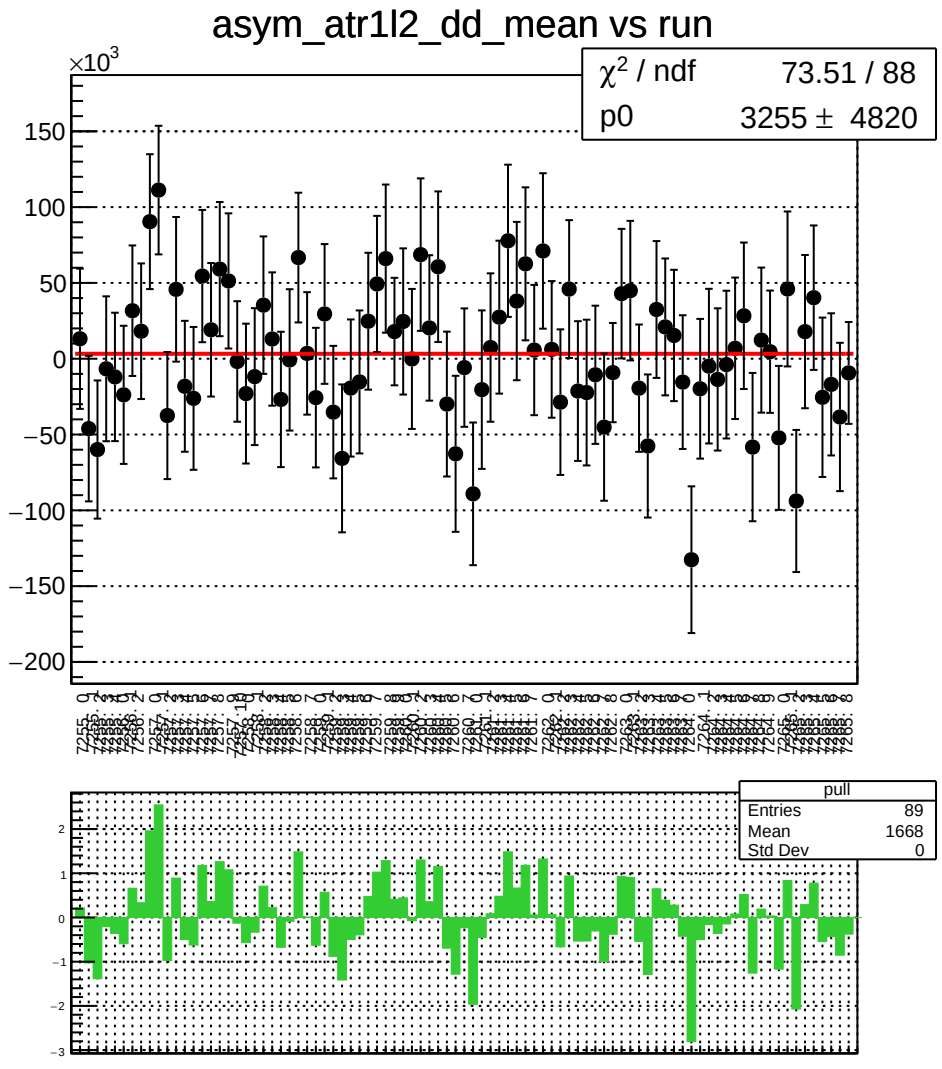

pull1D
Entries 89
Mean −0.002861
Std Dev 0.8734
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

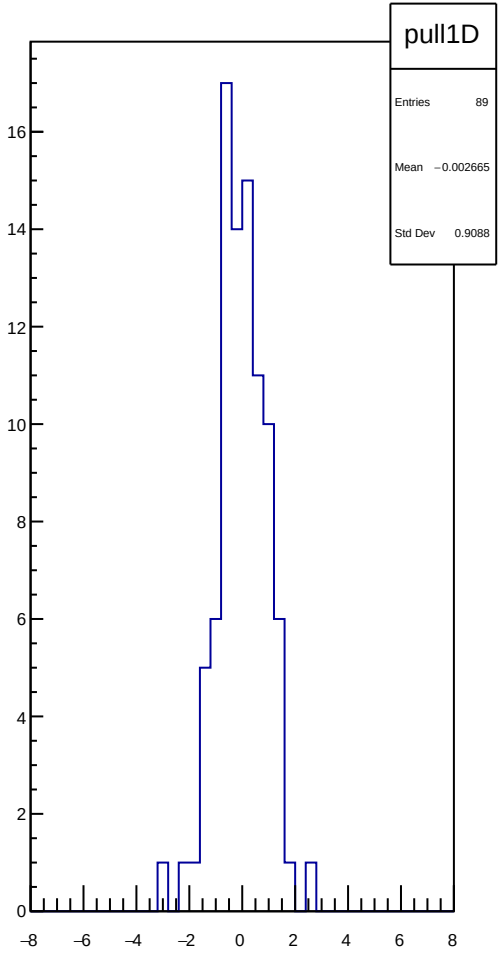

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 512.3 / 88
p0 1779 ± 1.366
1860
1840
1820
1800
1780
1760
1740
1720
1700

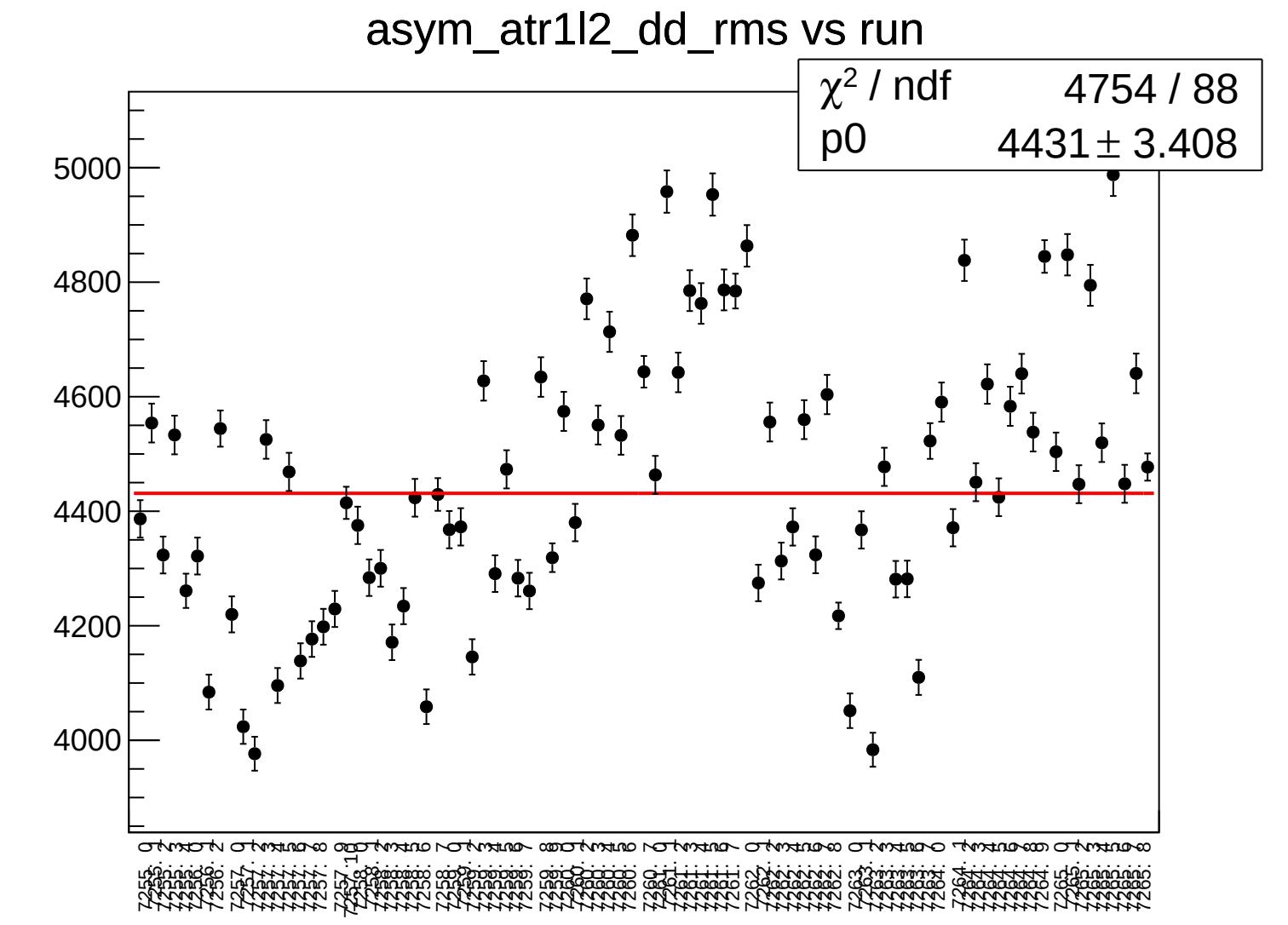

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.65 / 88
p0 −2639 ± 4055
pull
Entries 89
Mean 1033
Std Dev 0

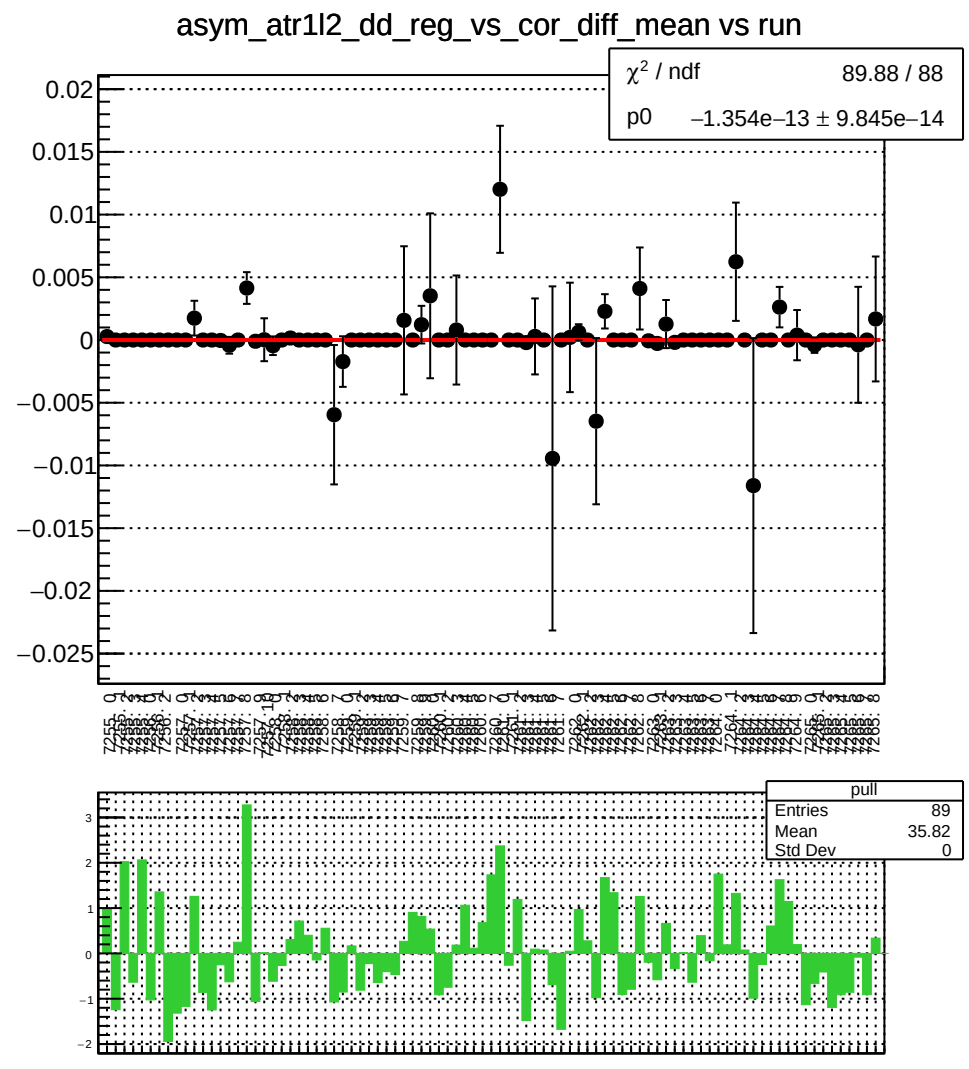

pull1D
Entries 89
Mean 0.004213
Std Dev 0.981

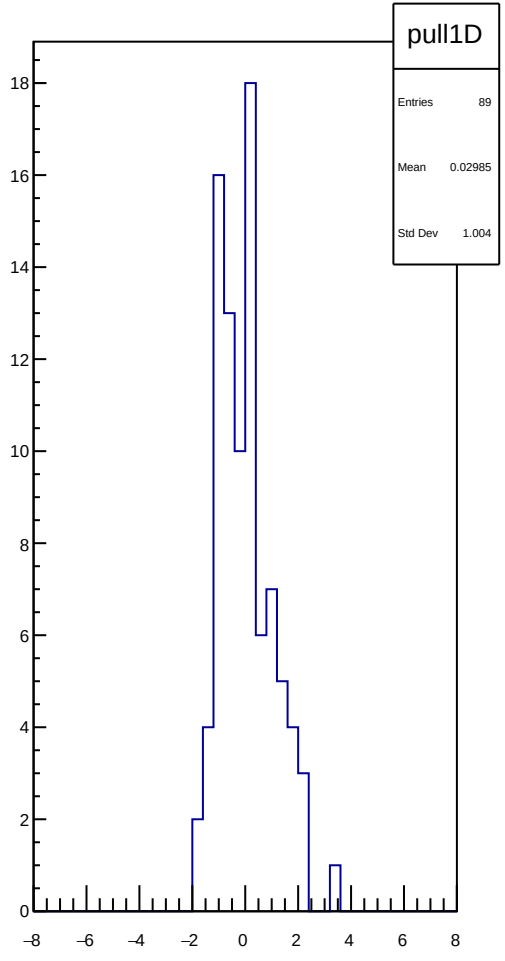

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 8832 / 88
p0 3723 ± 2.867
4400
4200
4000
3800
3600
3400
3200

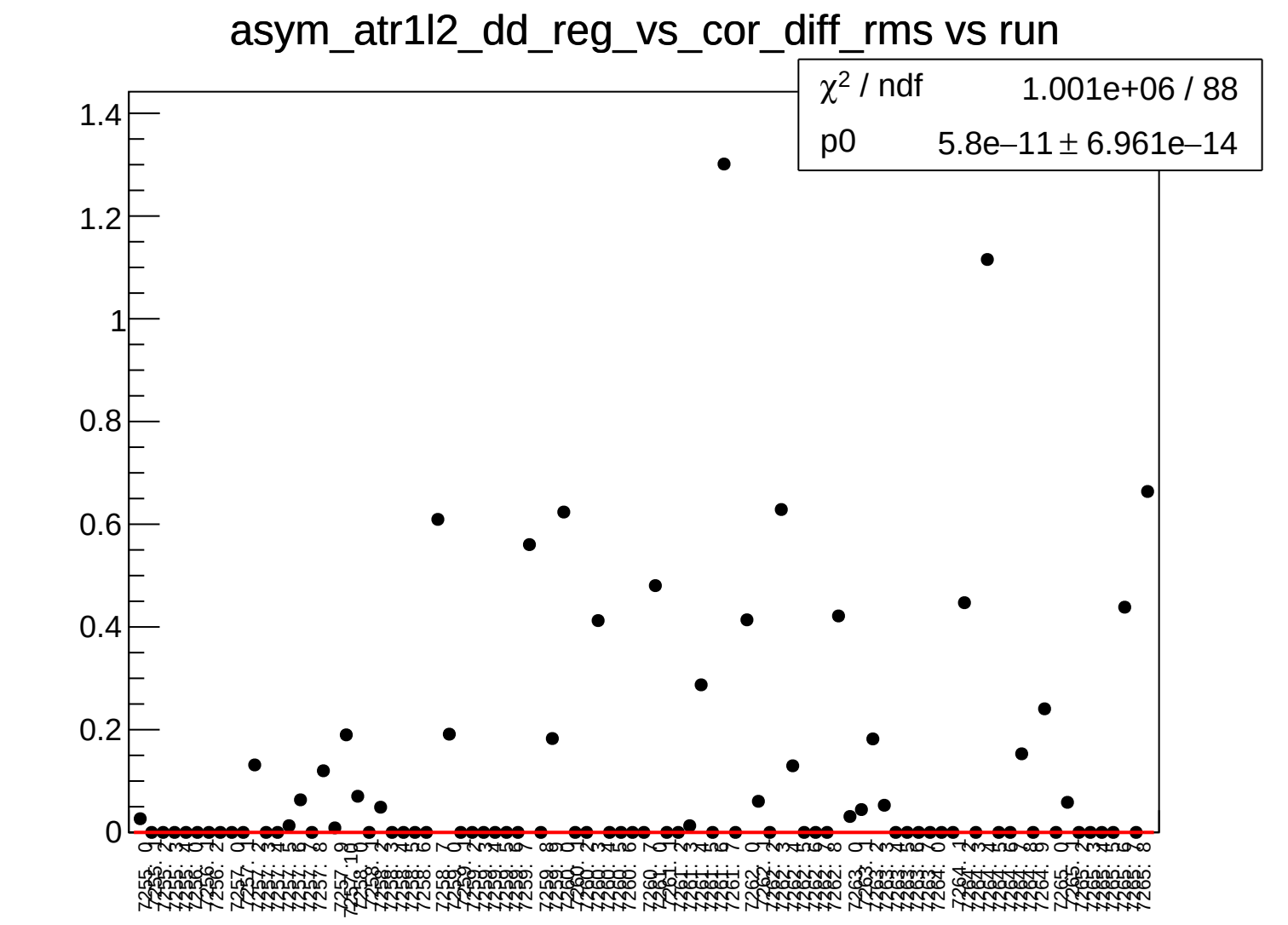

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 73.51 / 88
p0 3255 ± 4820
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 1668
Std Dev 0
2
1
0
−1
−2
−3

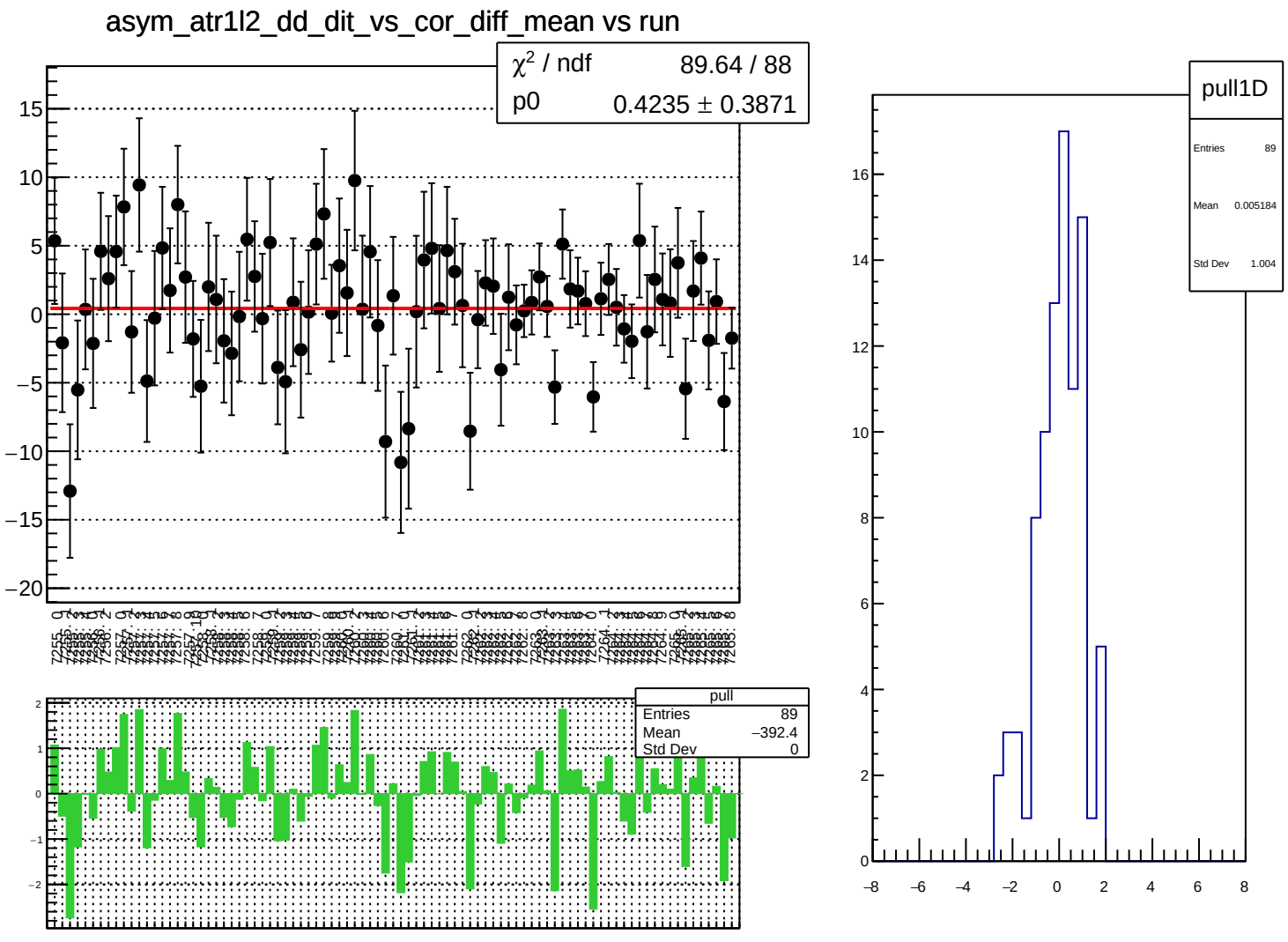

pull1D
Entries 89
Mean −0.002665
Std Dev 0.9088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

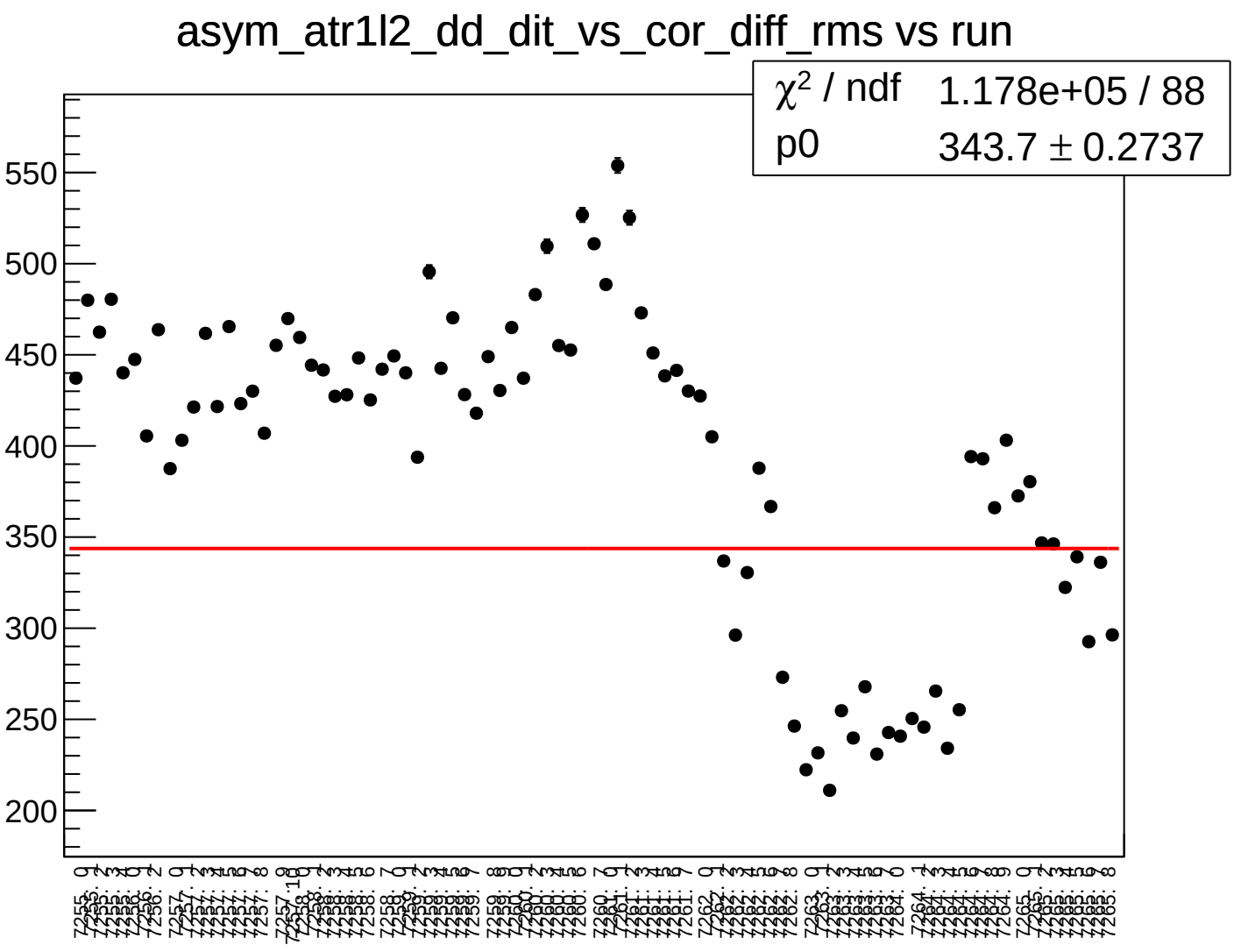

asym_atr1l2_dd_rms vs run
χ² / ndf 4754 / 88
p0 4431 ± 3.408
5000
4800
4600
4400
4200
4000

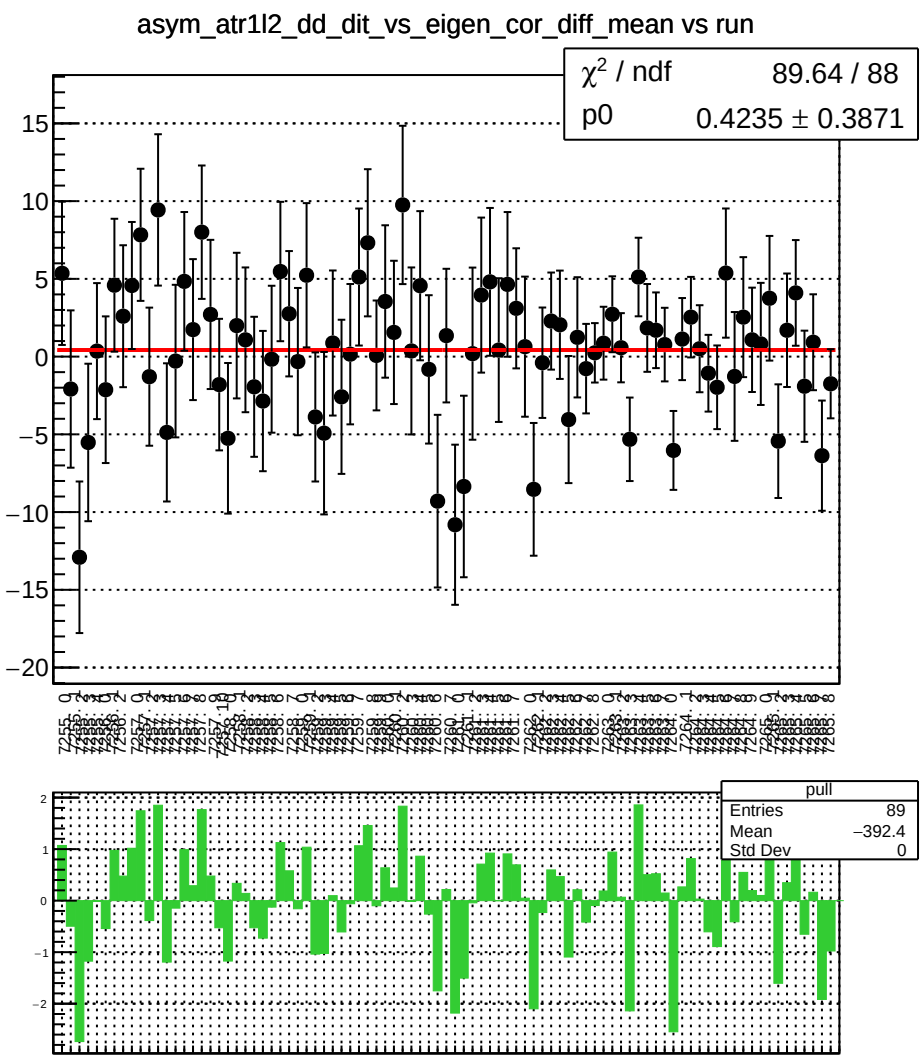

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.88 / 88
p0 −1.354e−13 ± 9.845e−14
pull
Entries 89
Mean 35.82
Std Dev 0

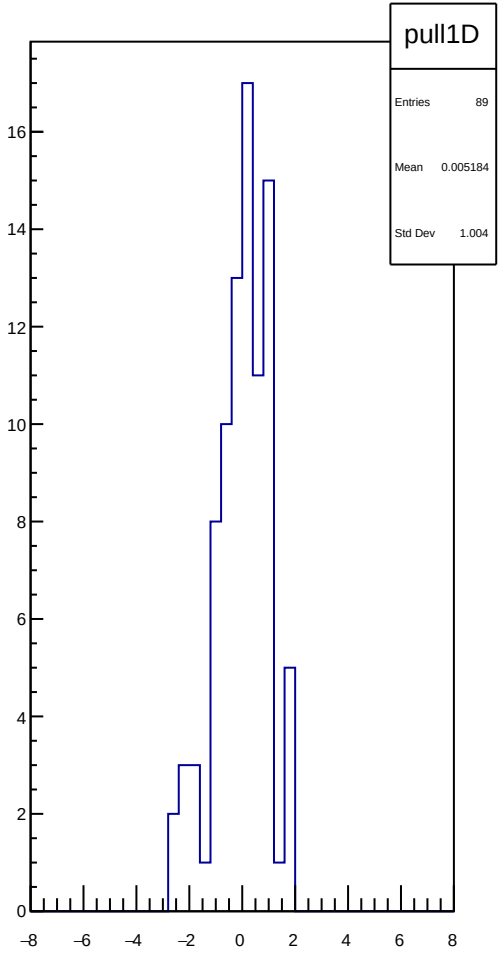

pull1D
Entries 89
Mean 0.02985
Std Dev 1.004

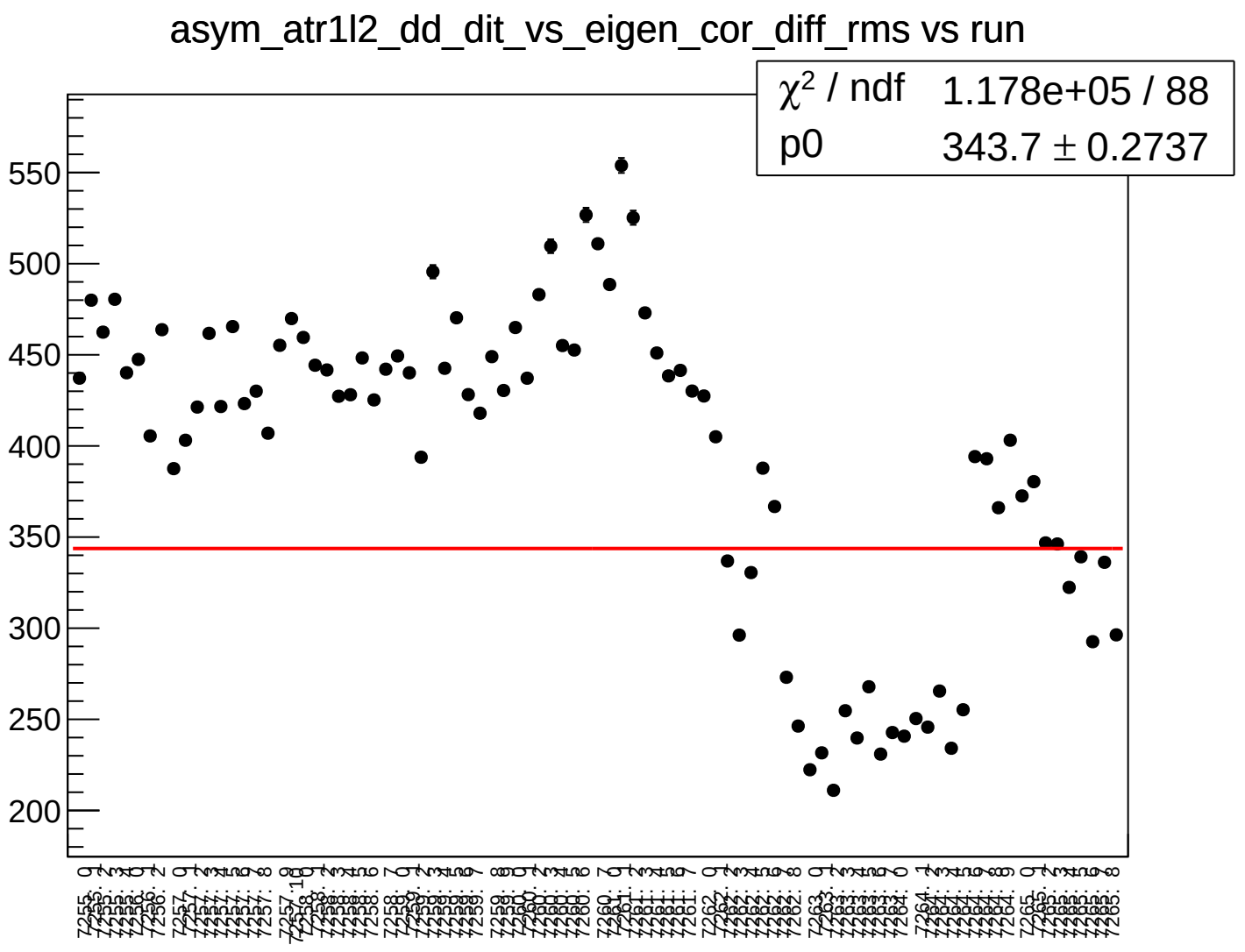

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.001e+06 / 88
p0 5.8e−11 ± 6.961e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

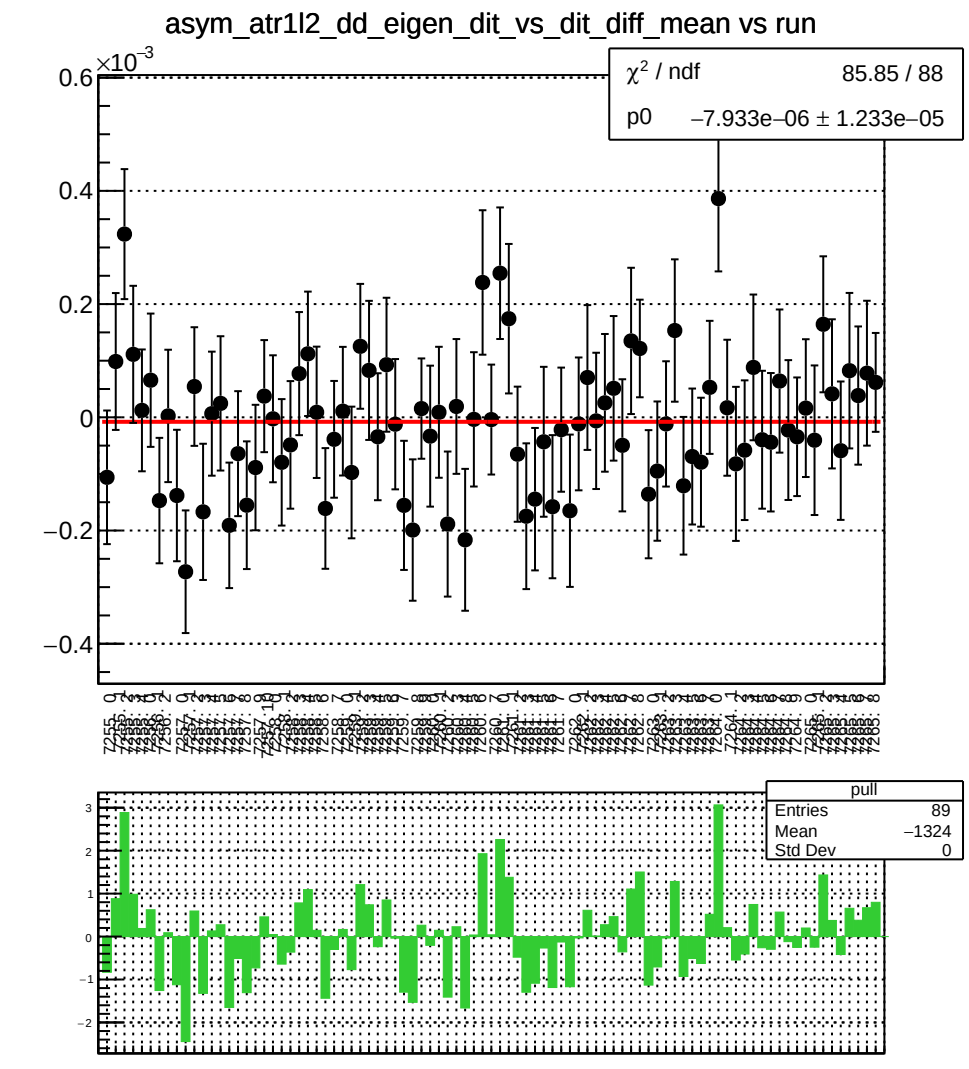

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.64 / 88
p0 0.4235 ± 0.3871
pull
Entries 89
Mean −392.4
Std Dev 0
pull1D
Entries 89
Mean 0.005184
Std Dev 1.004

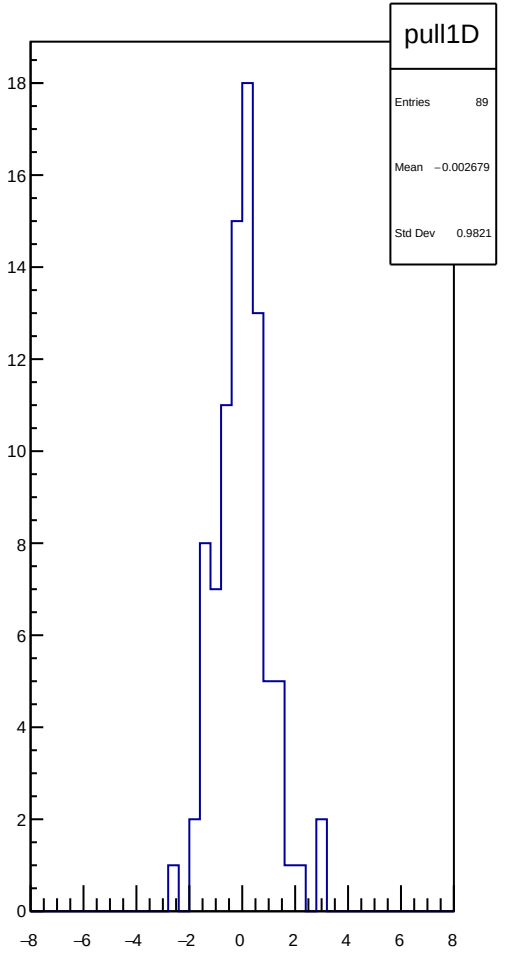

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.178e+05 / 88
p0 343.7 ± 0.2737
550
500
450
400
350
300
250
200

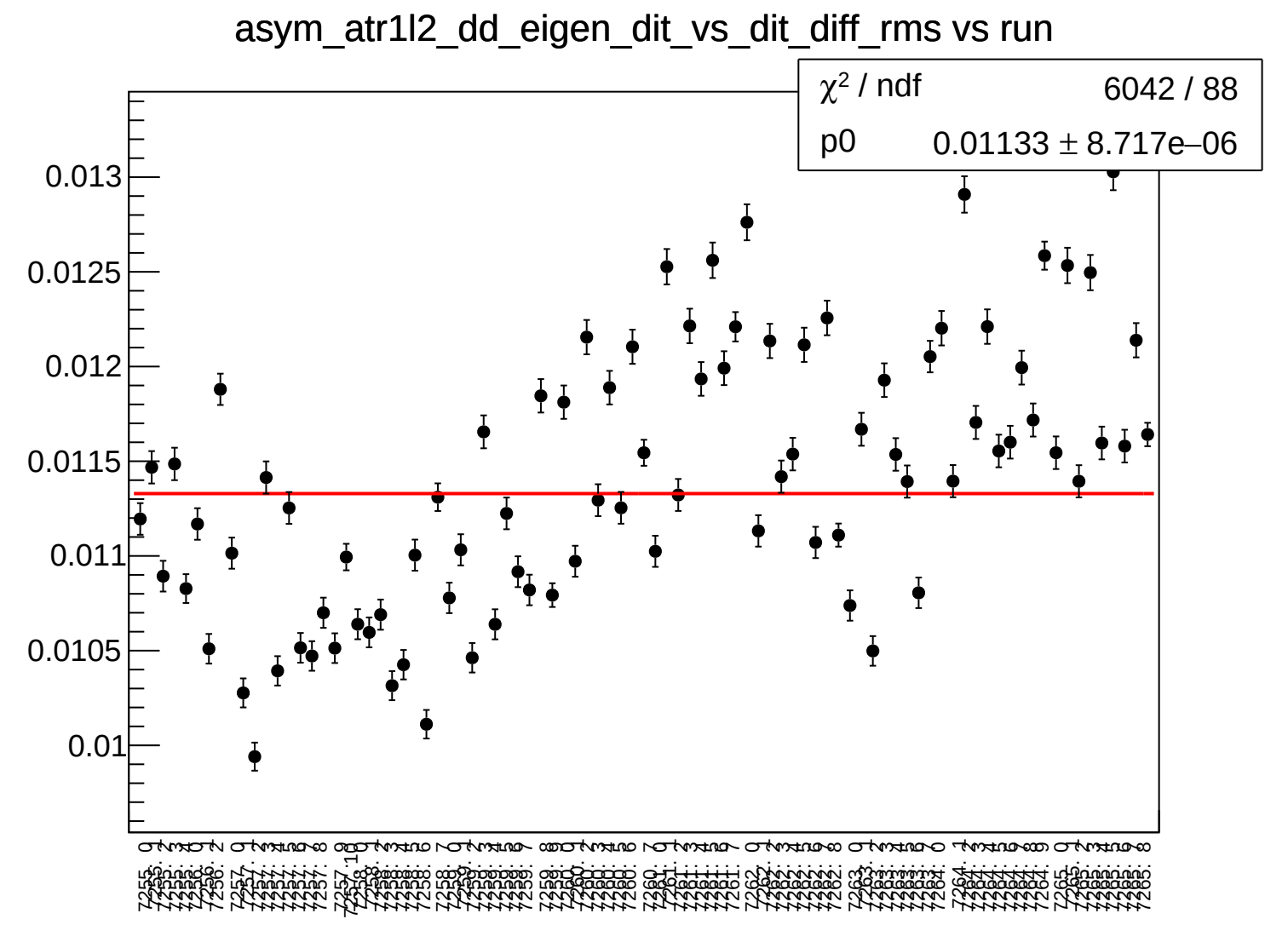

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.64 / 88
p0 0.4235 ± 0.3871
pull
Entries 89
Mean −392.4
Std Dev 0

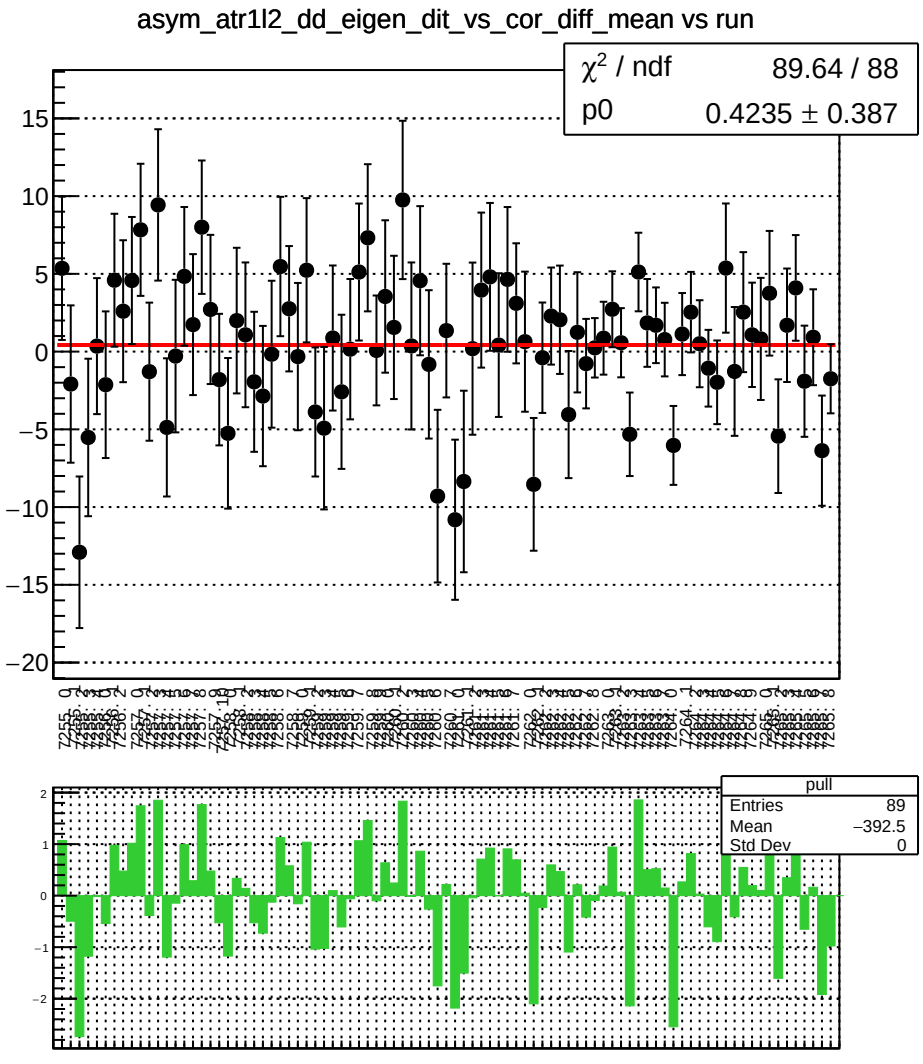

pull1D
Entries 89
Mean 0.005184
Std Dev 1.004

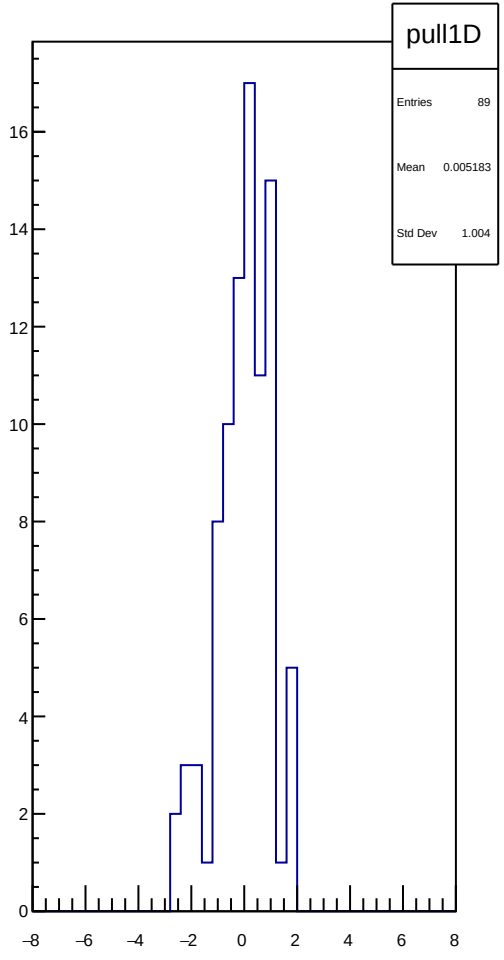

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.178e+05 / 88
p0 343.7 ± 0.2737
550
500
450
400
350
300
250
200

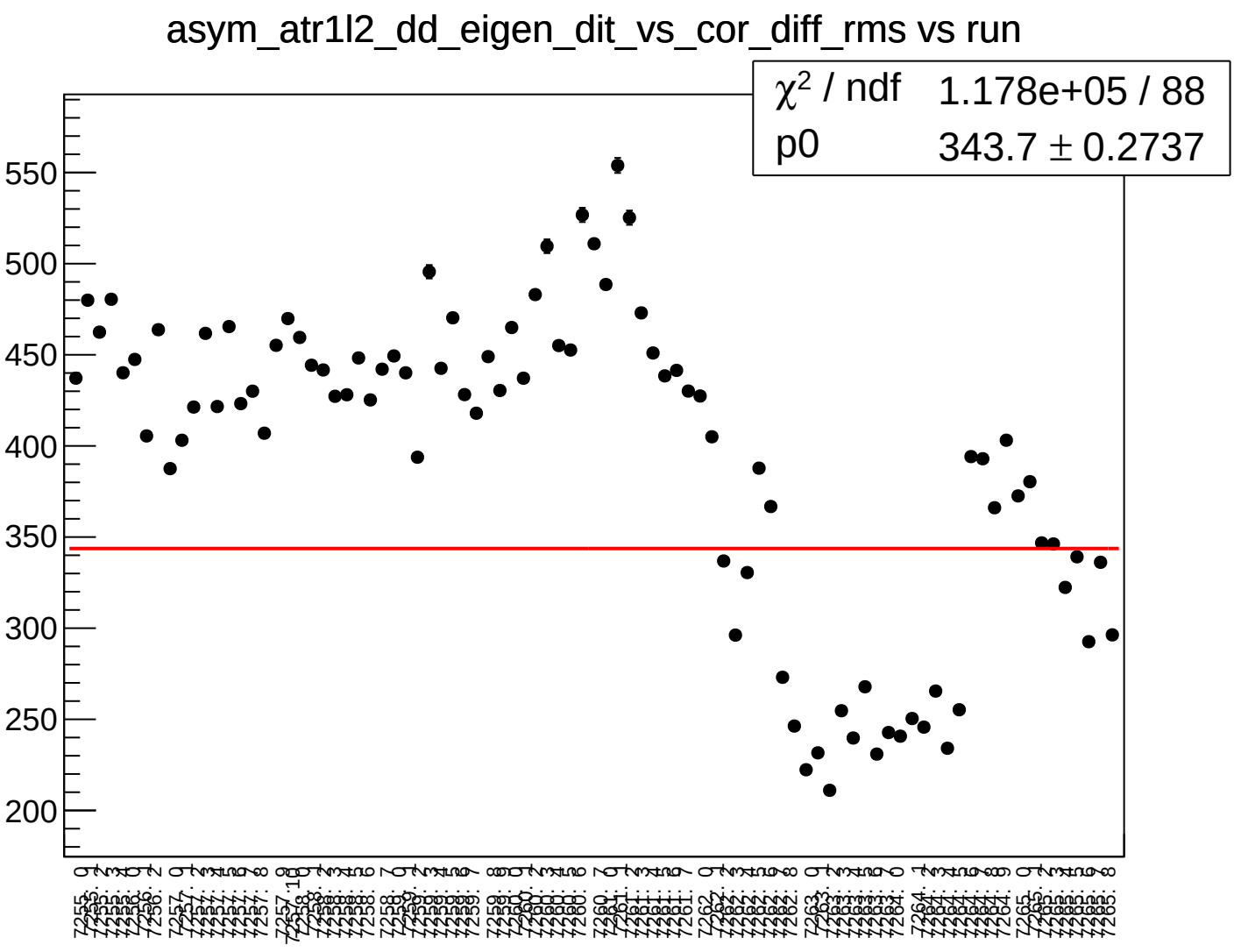

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.85 / 88
p0 −7.933e−06 ± 1.233e−05
pull
Entries 89
Mean −1324
Std Dev 0

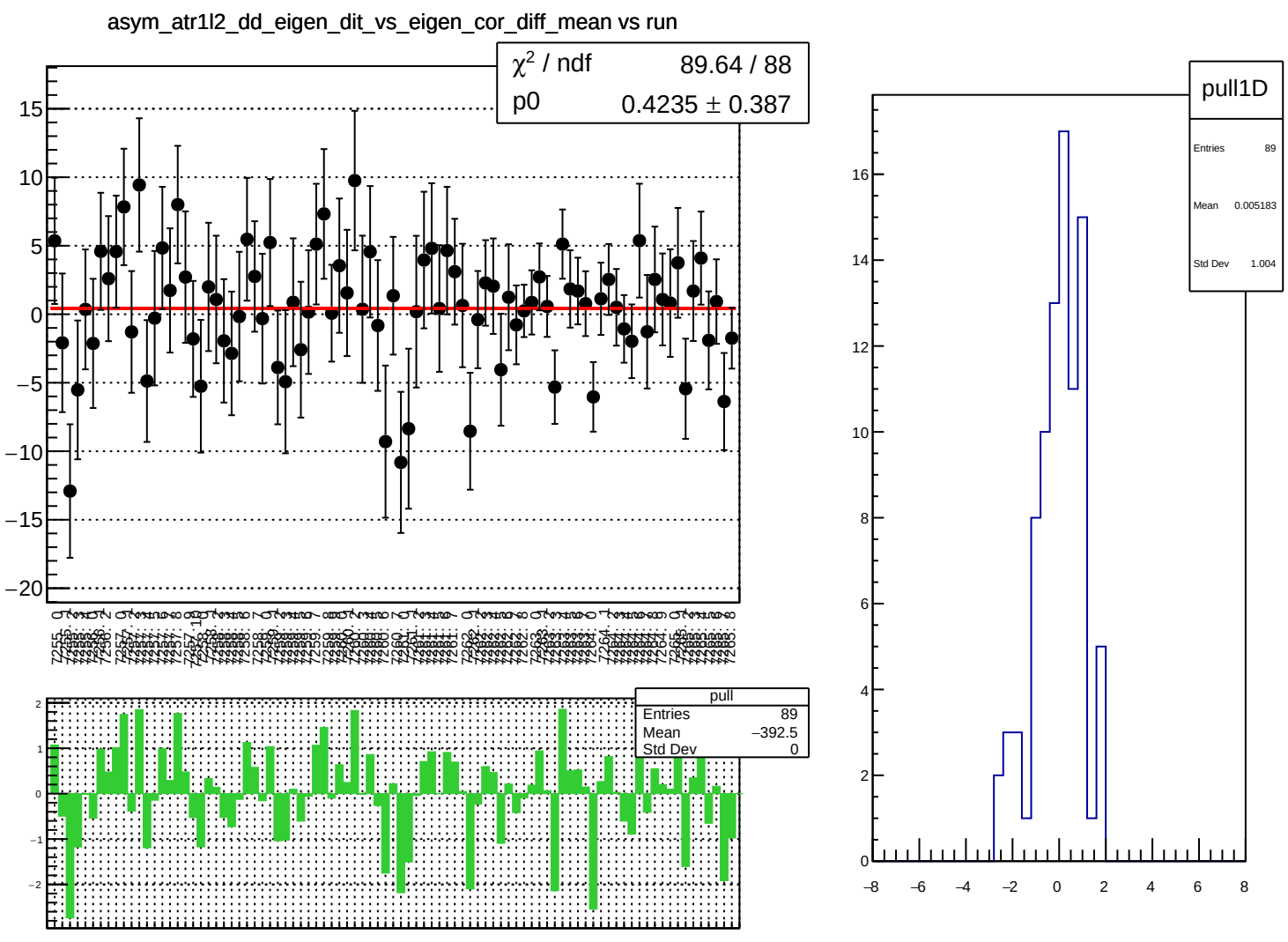

pull1D
Entries 89
Mean −0.002679
Std Dev 0.9821

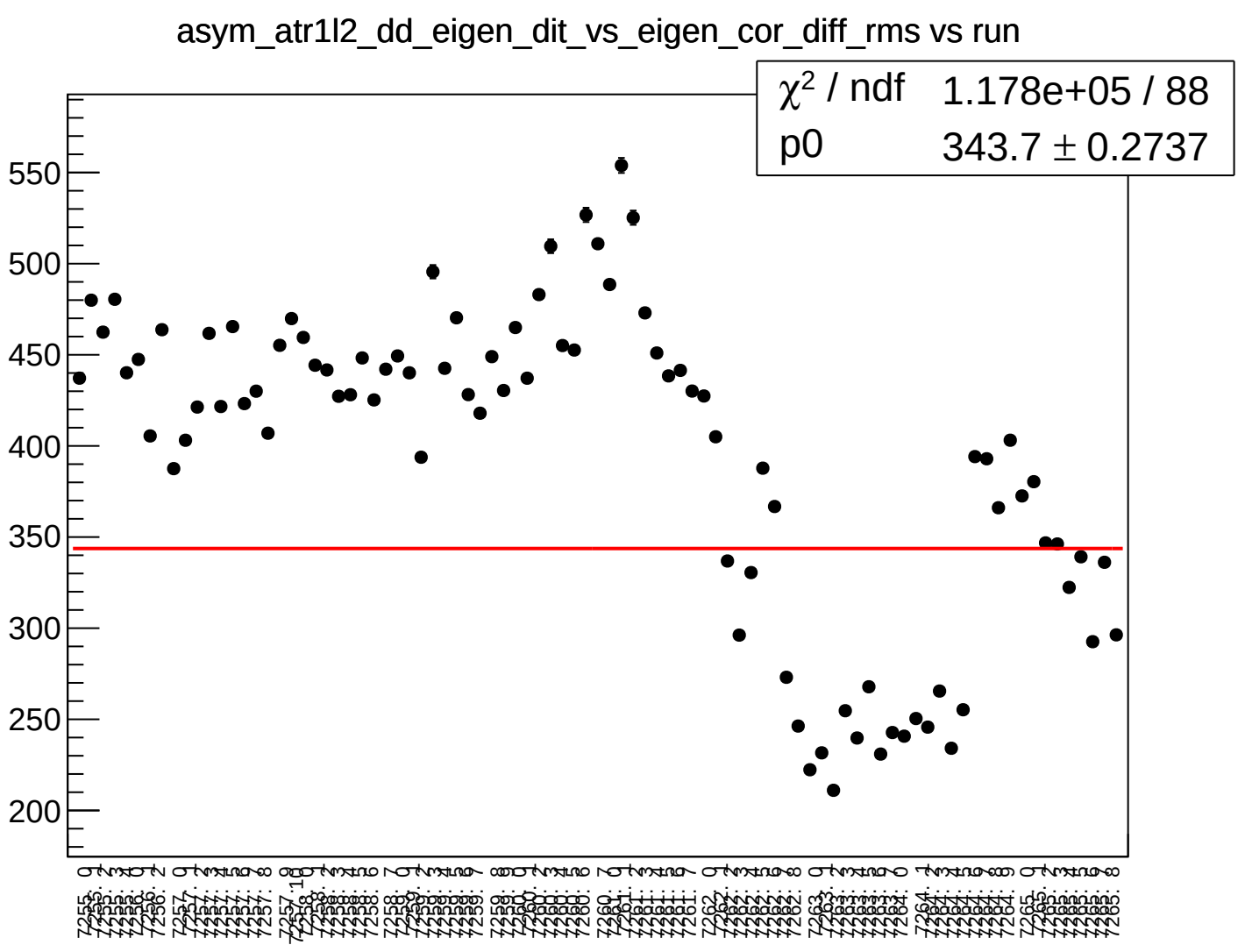

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6042 / 88
p0 0.01133 ± 8.717e–06
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01

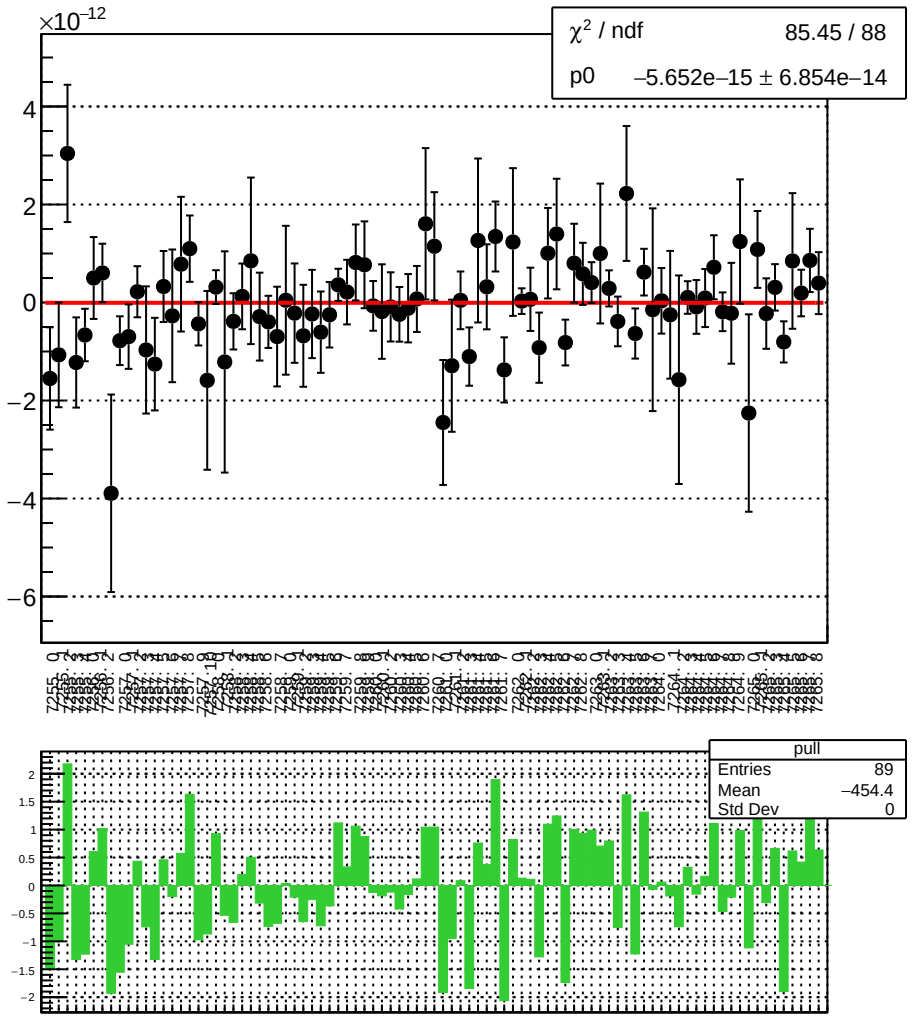

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.64 / 88
p0 0.4235 ± 0.387
pull
Entries 89
Mean −392.5
Std Dev 0

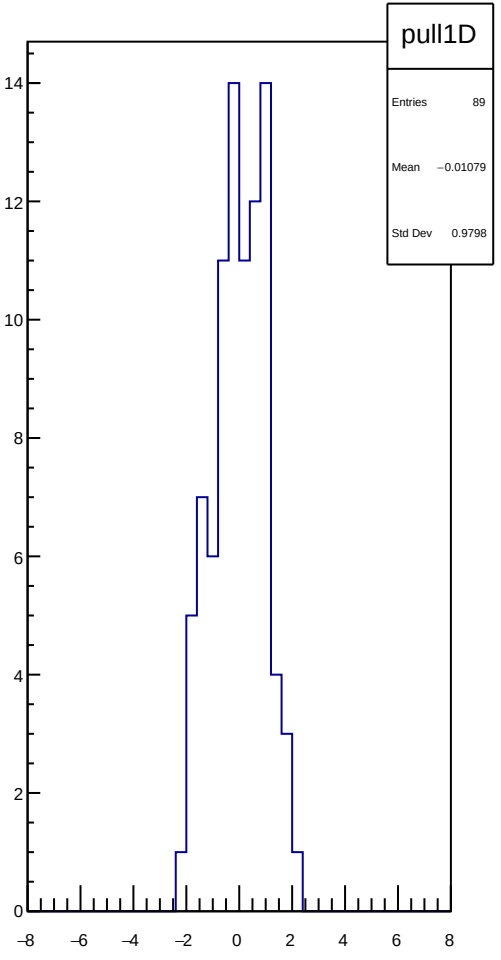

pull1D
Entries 89
Mean 0.005183
Std Dev 1.004

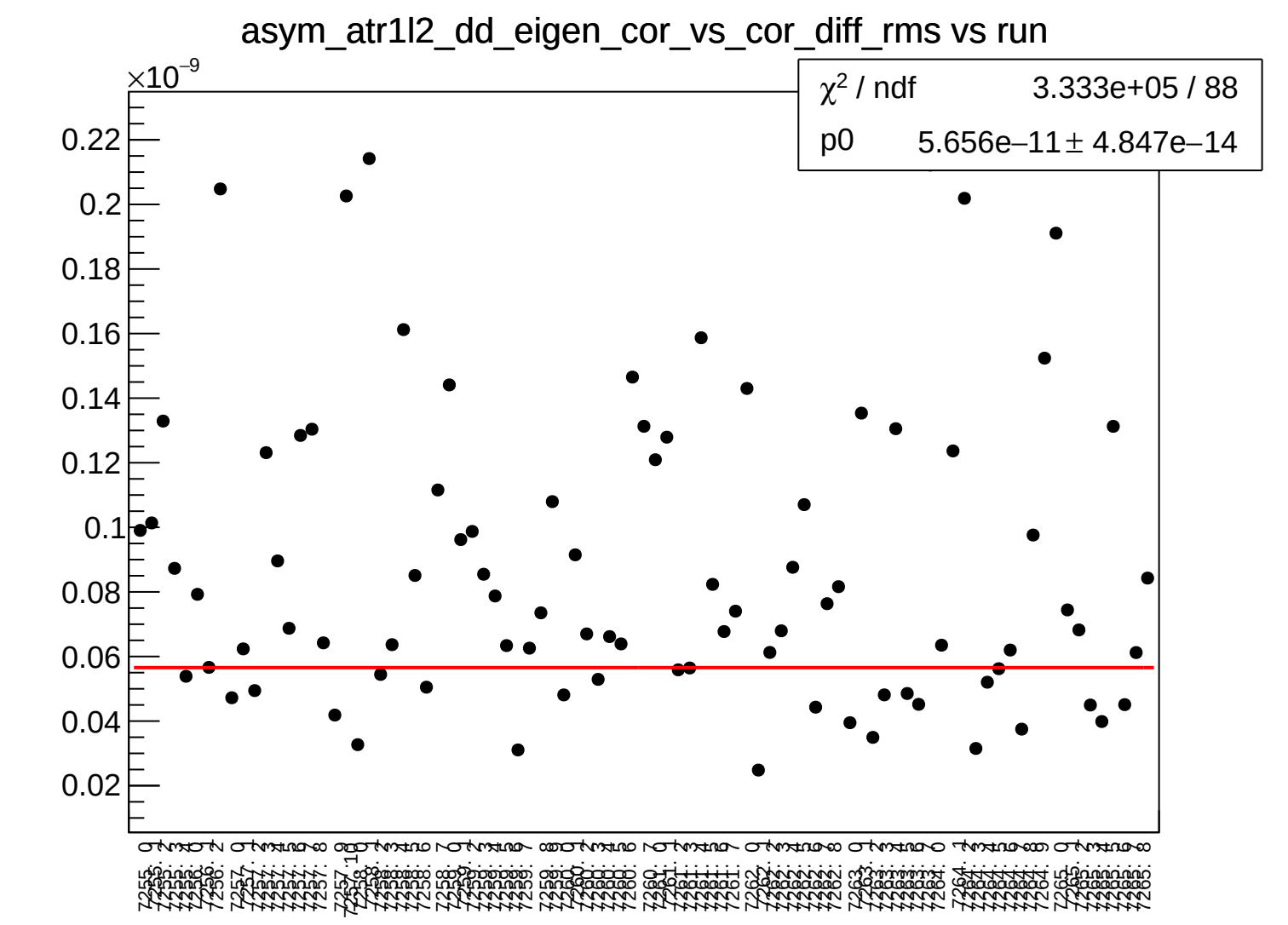

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.178e+05 / 88
p0 343.7 ± 0.2737
550
500
450
400
350
300
250
200

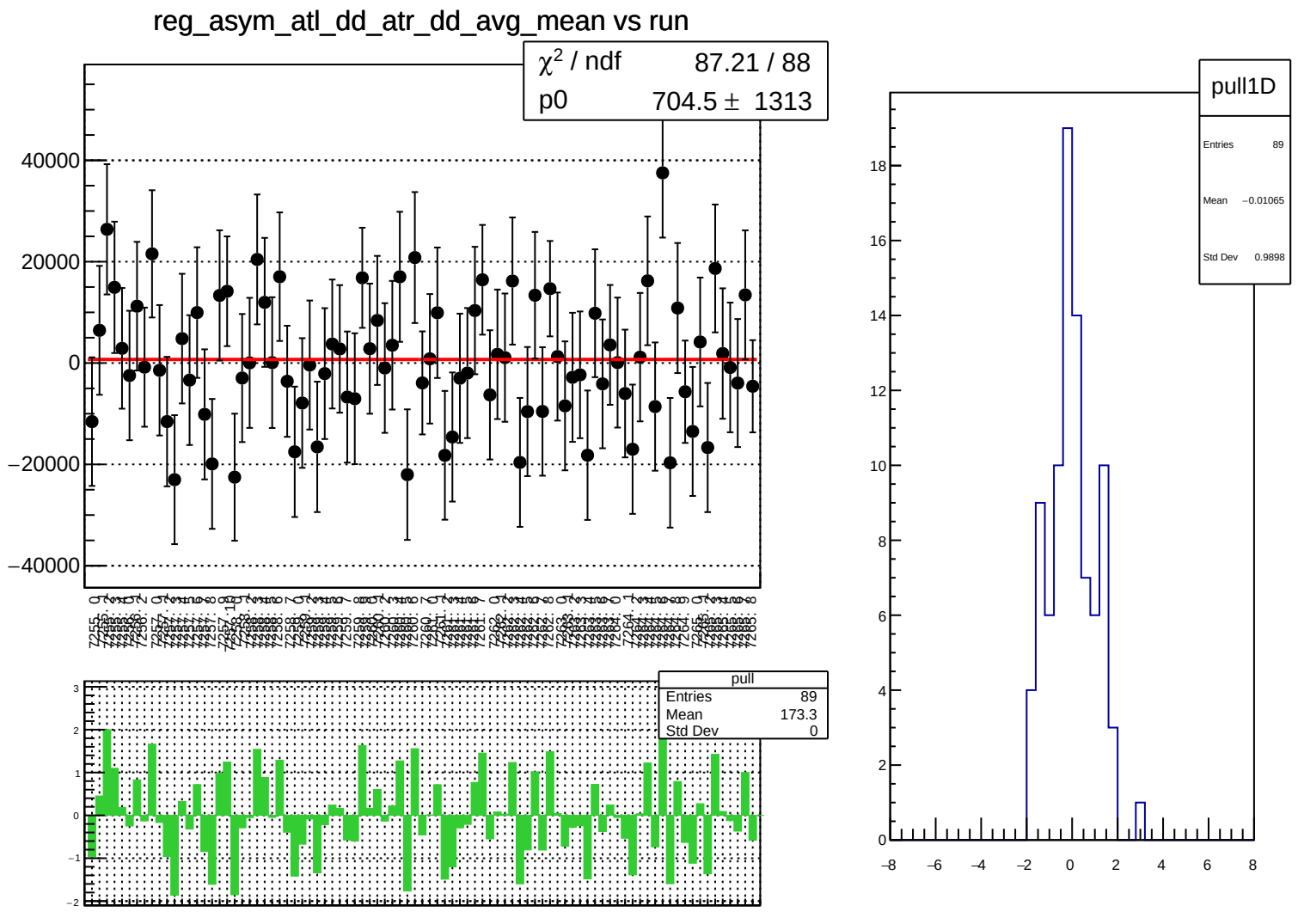

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.64 / 88
p0 0.4235 ± 0.387
pull
Entries 89
Mean −392.5
Std Dev 0
pull1D
Entries 89
Mean 0.005183
Std Dev 1.004

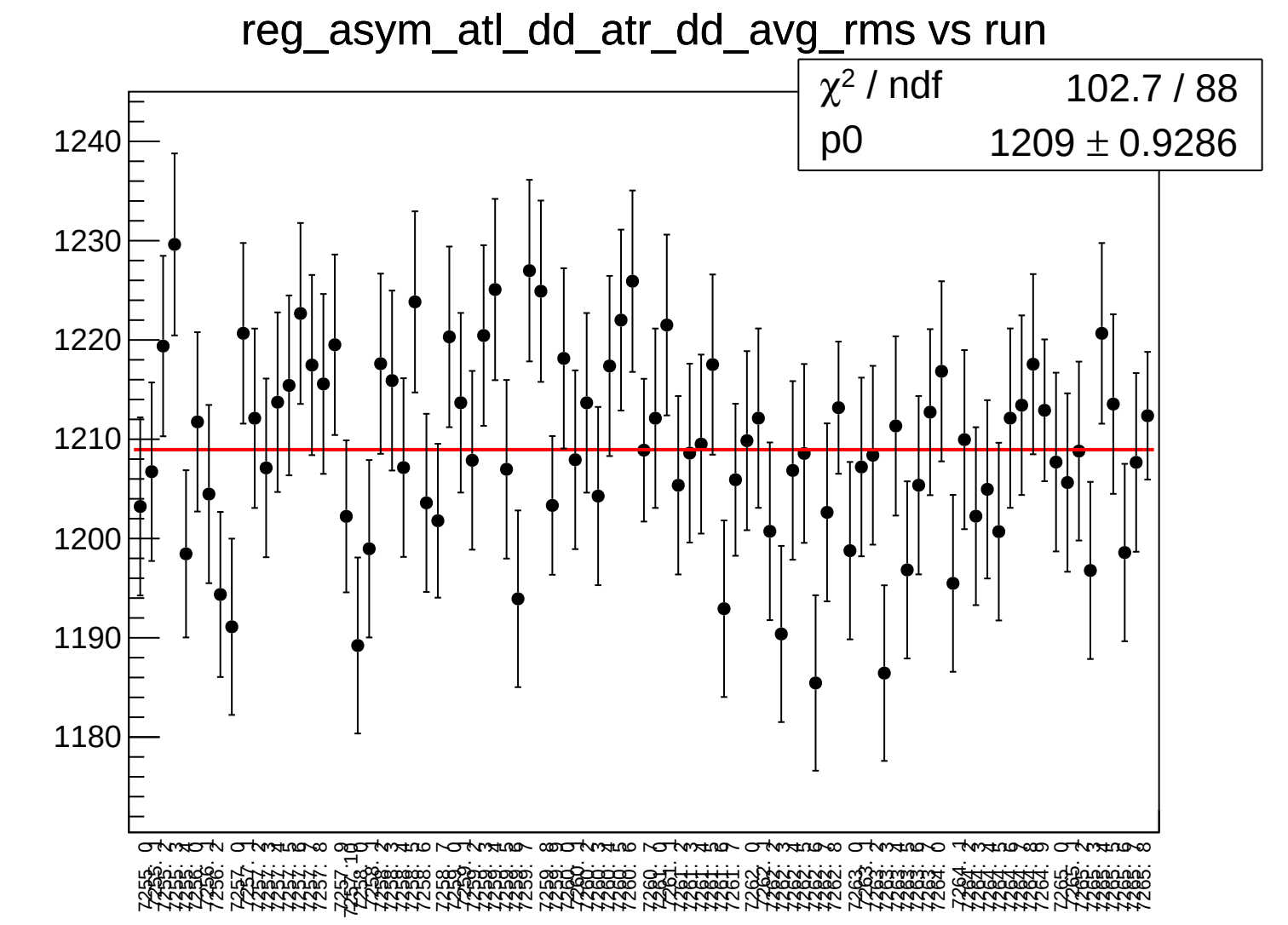

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.178e+05 / 88
p0 343.7 ± 0.2737
550
500
450
400
350
300
250
200

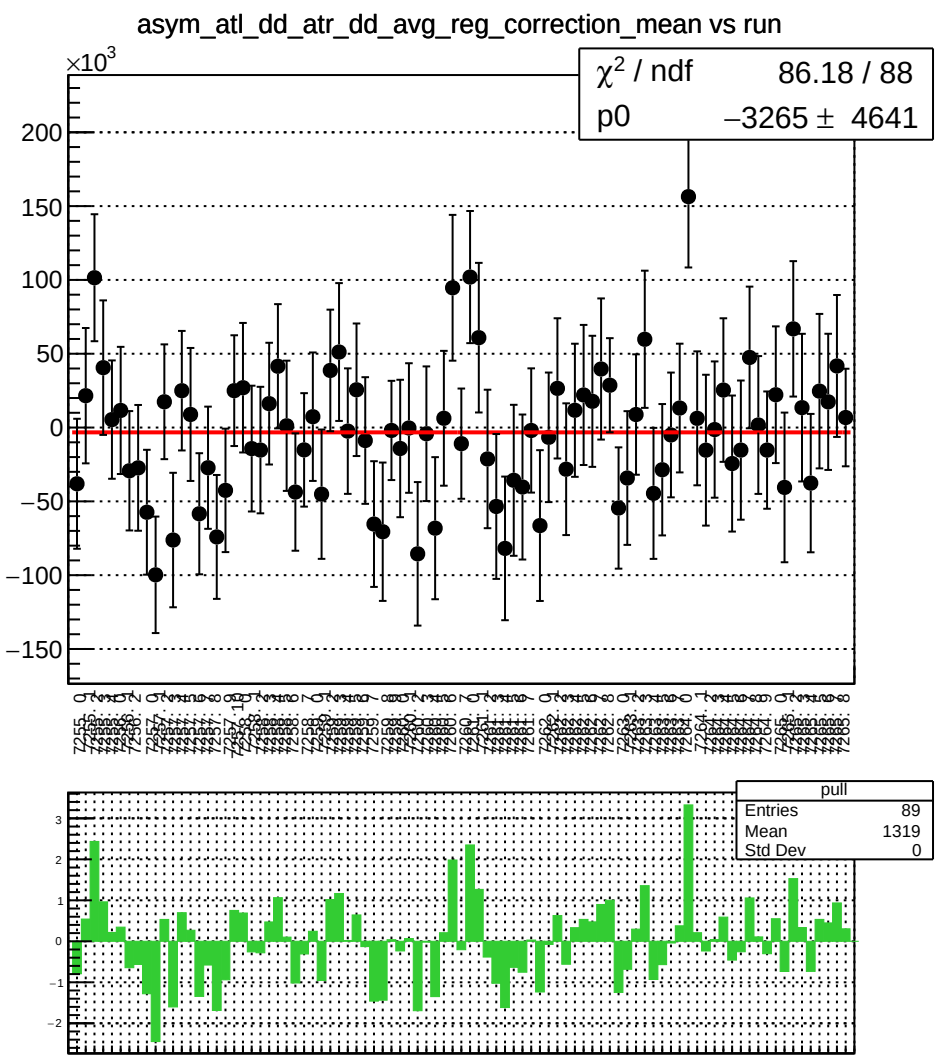

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.45 / 88
p0 −5.652e−15 ± 6.854e−14
pull
Entries 89
Mean −454.4
Std Dev 0

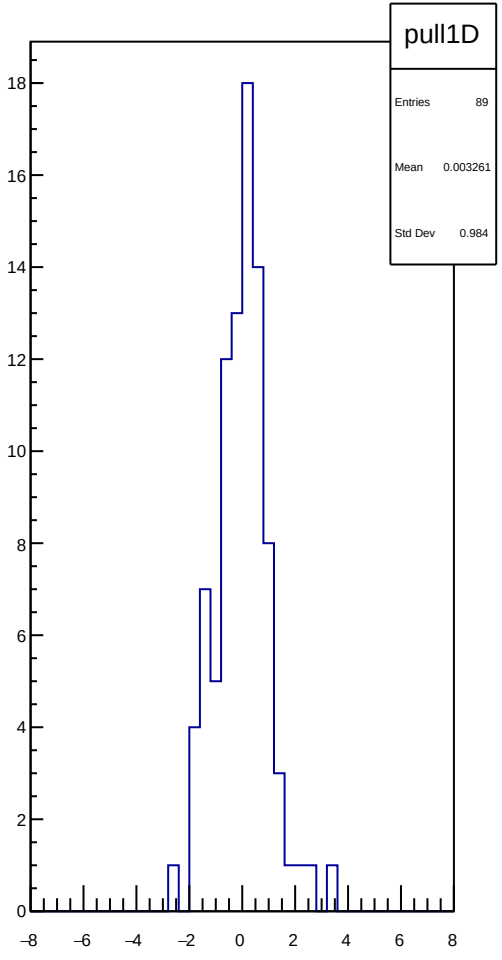

pull1D
Entries 89
Mean −0.01079
Std Dev 0.9798

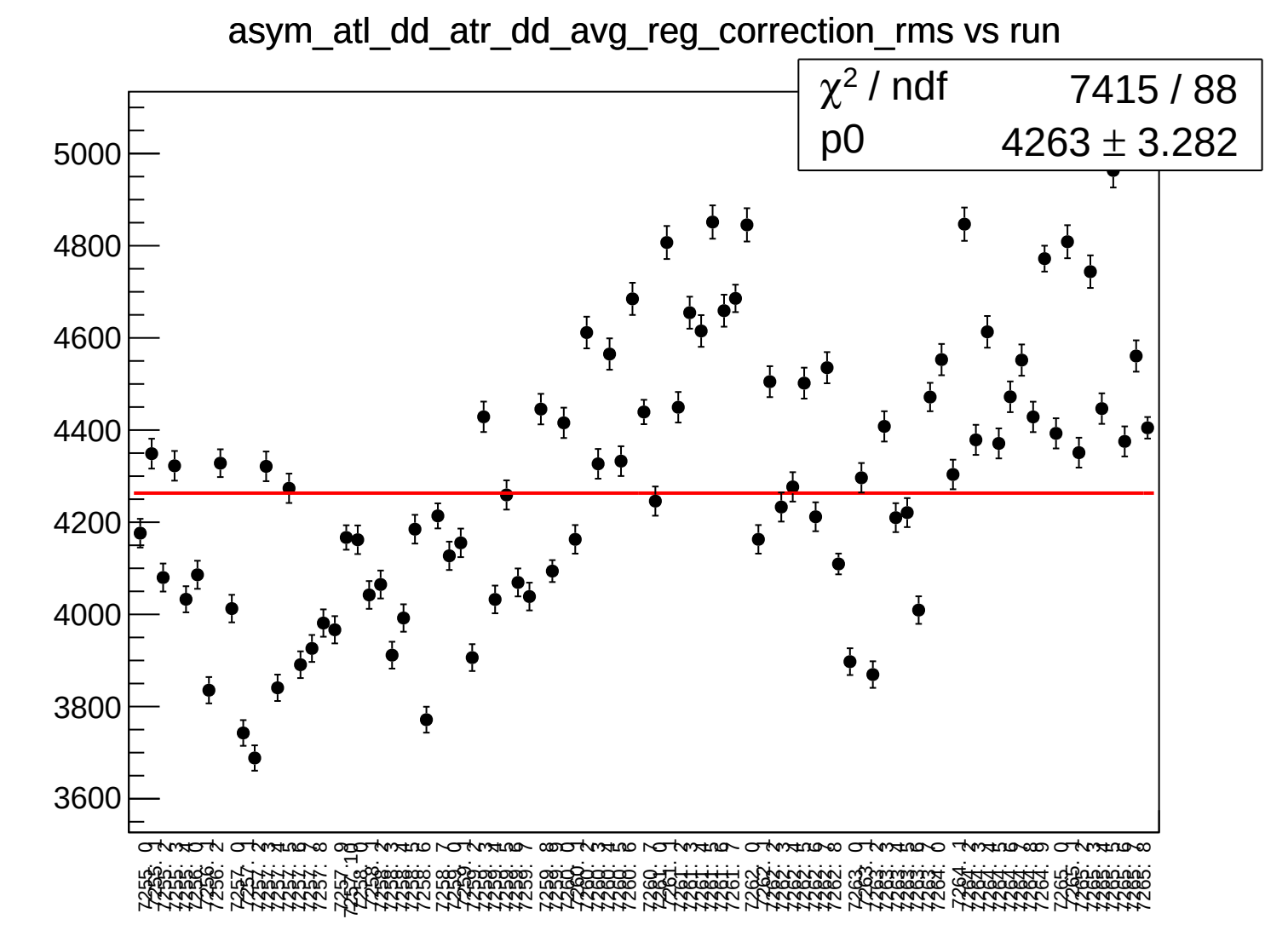

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.333e+05 / 88
p0 5.656e−11 ± 4.847e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

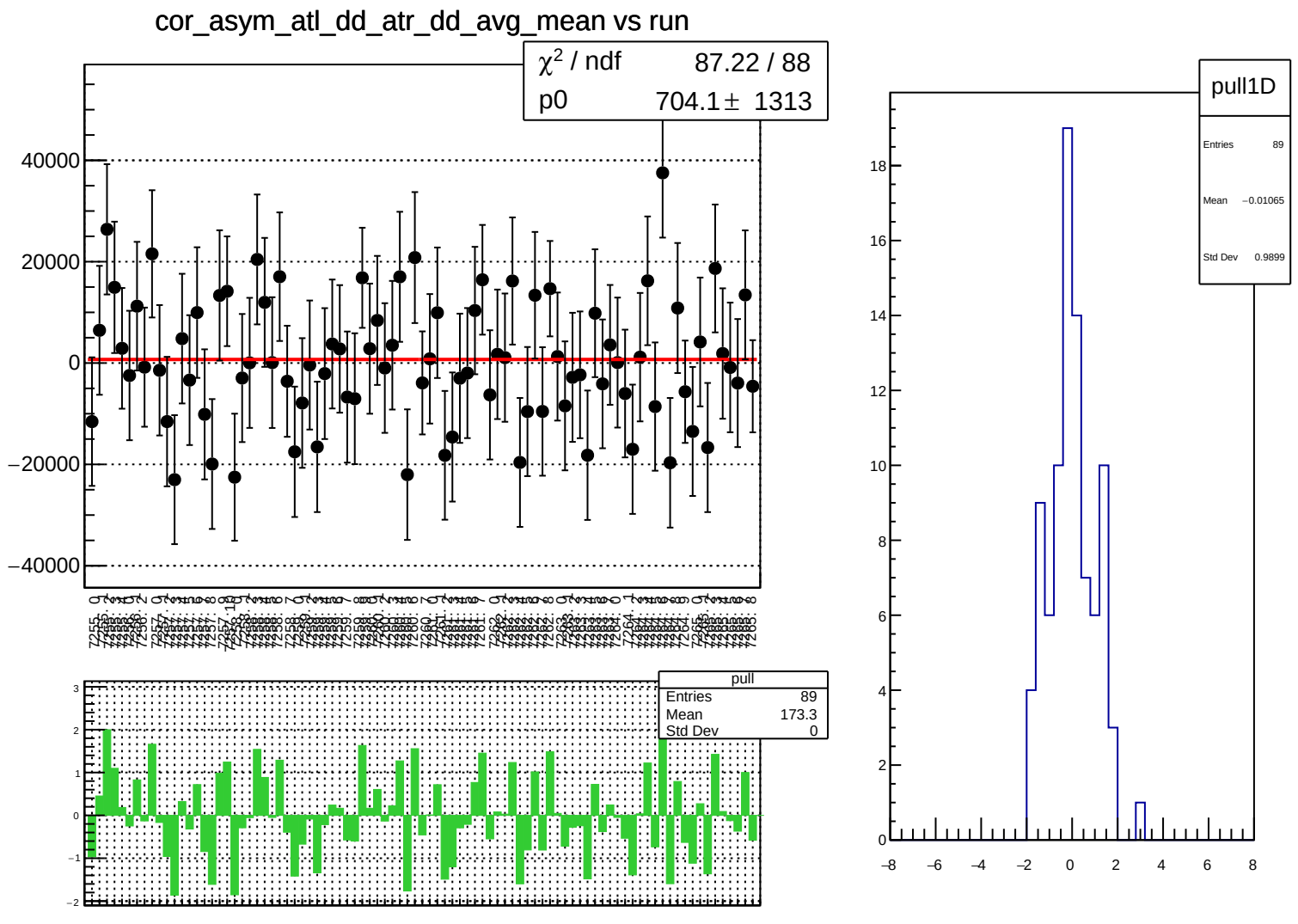

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 87.21 / 88
p0 704.5 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 173.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01065
Std Dev 0.9898
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

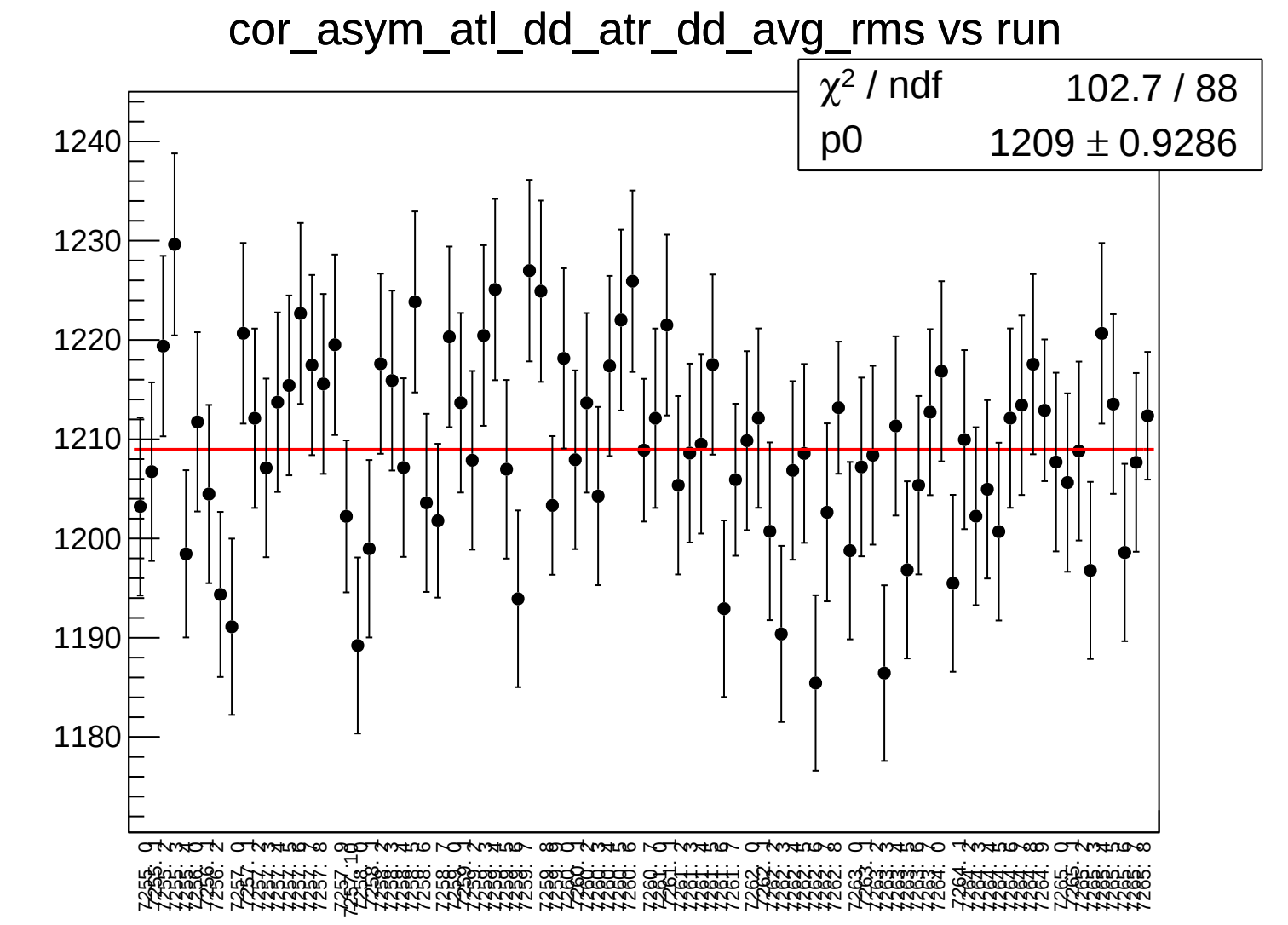

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 102.7 / 88
p0 1209 ± 0.9286
1240
1230
1220
1210
1200
1190
1180

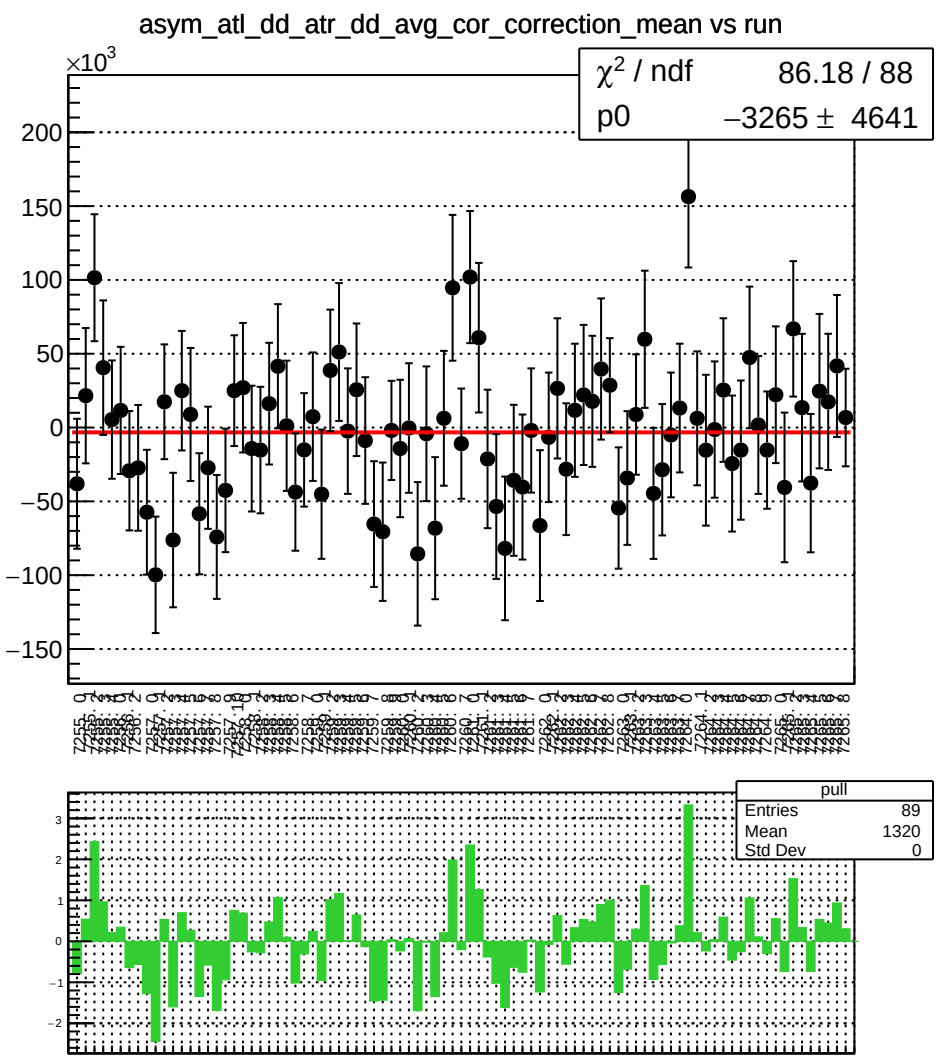

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.18 / 88
p0 −3265 ± 4641
pull
Entries 89
Mean 1319
Std Dev 0

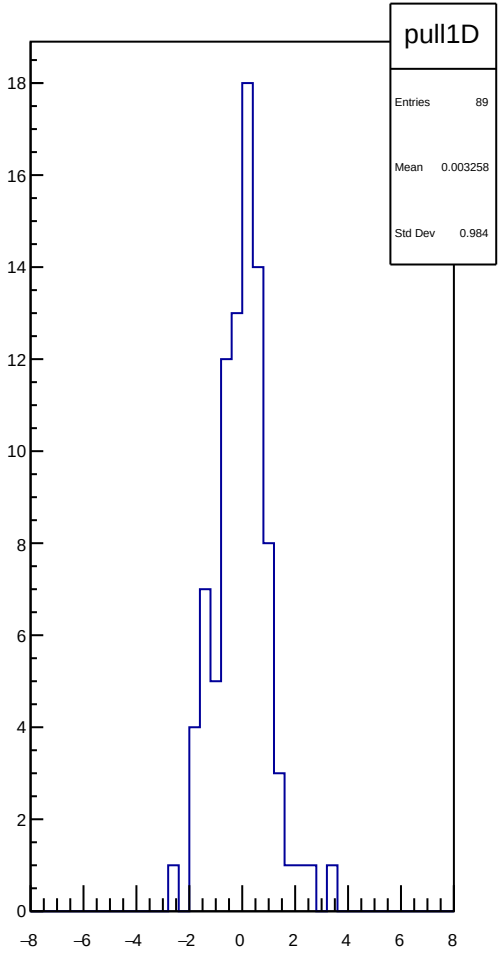

pull1D
Entries 89
Mean 0.003261
Std Dev 0.984

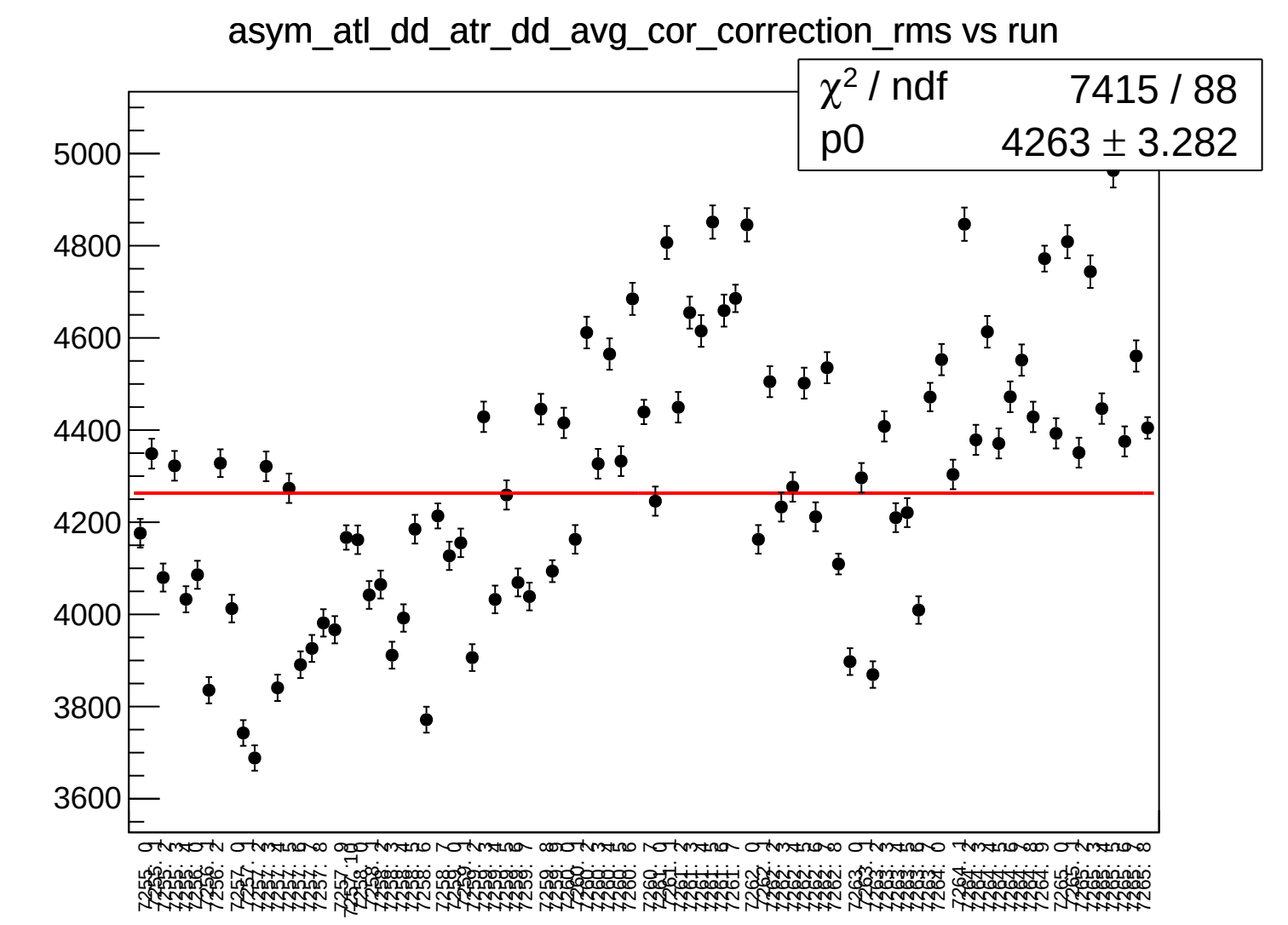

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 7415 / 88
p0 4263 ± 3.282
5000
4800
4600
4400
4200
4000
3800
3600

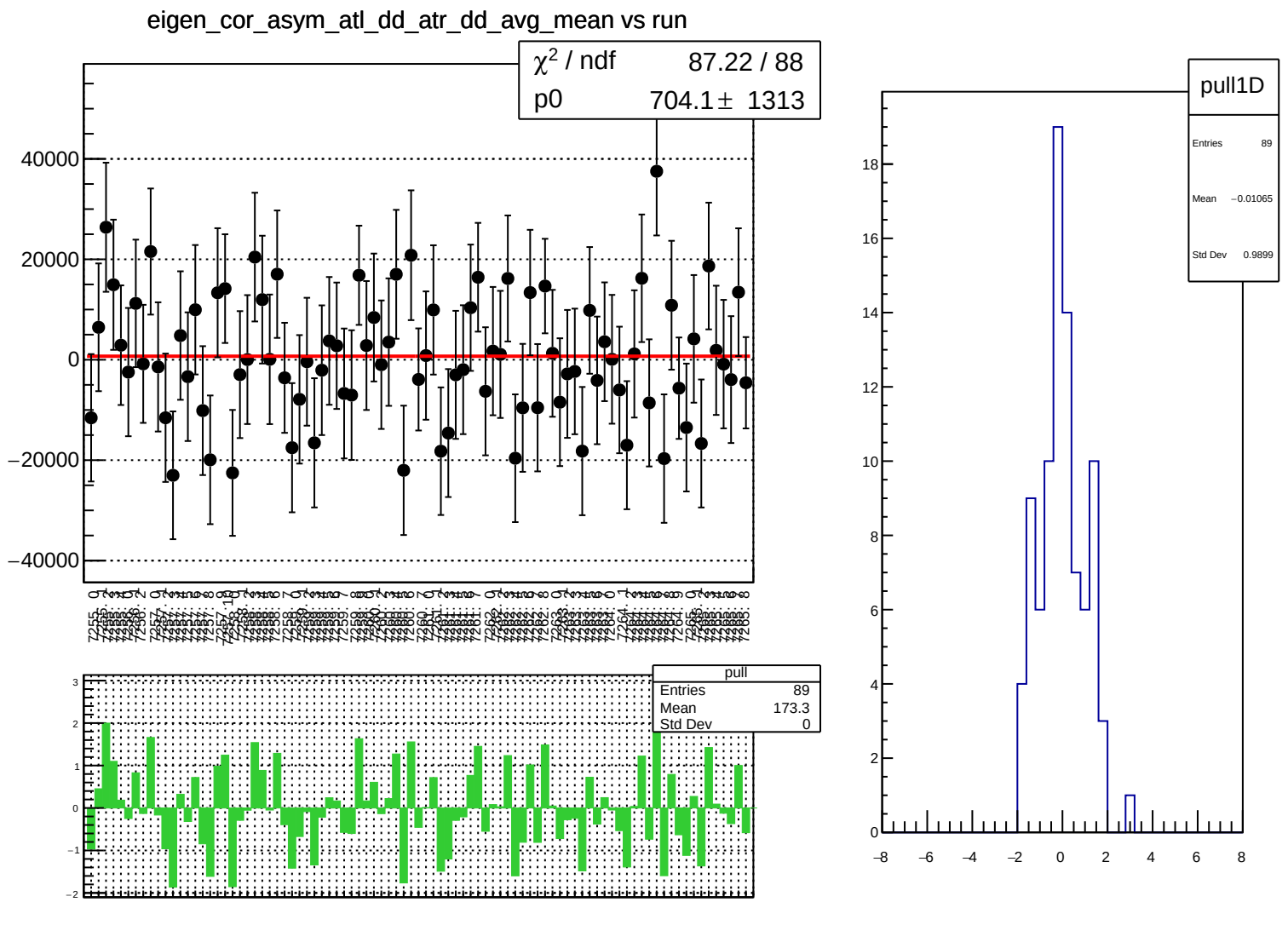

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 87.22 / 88
p0 704.1 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 173.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01065
Std Dev 0.9899
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

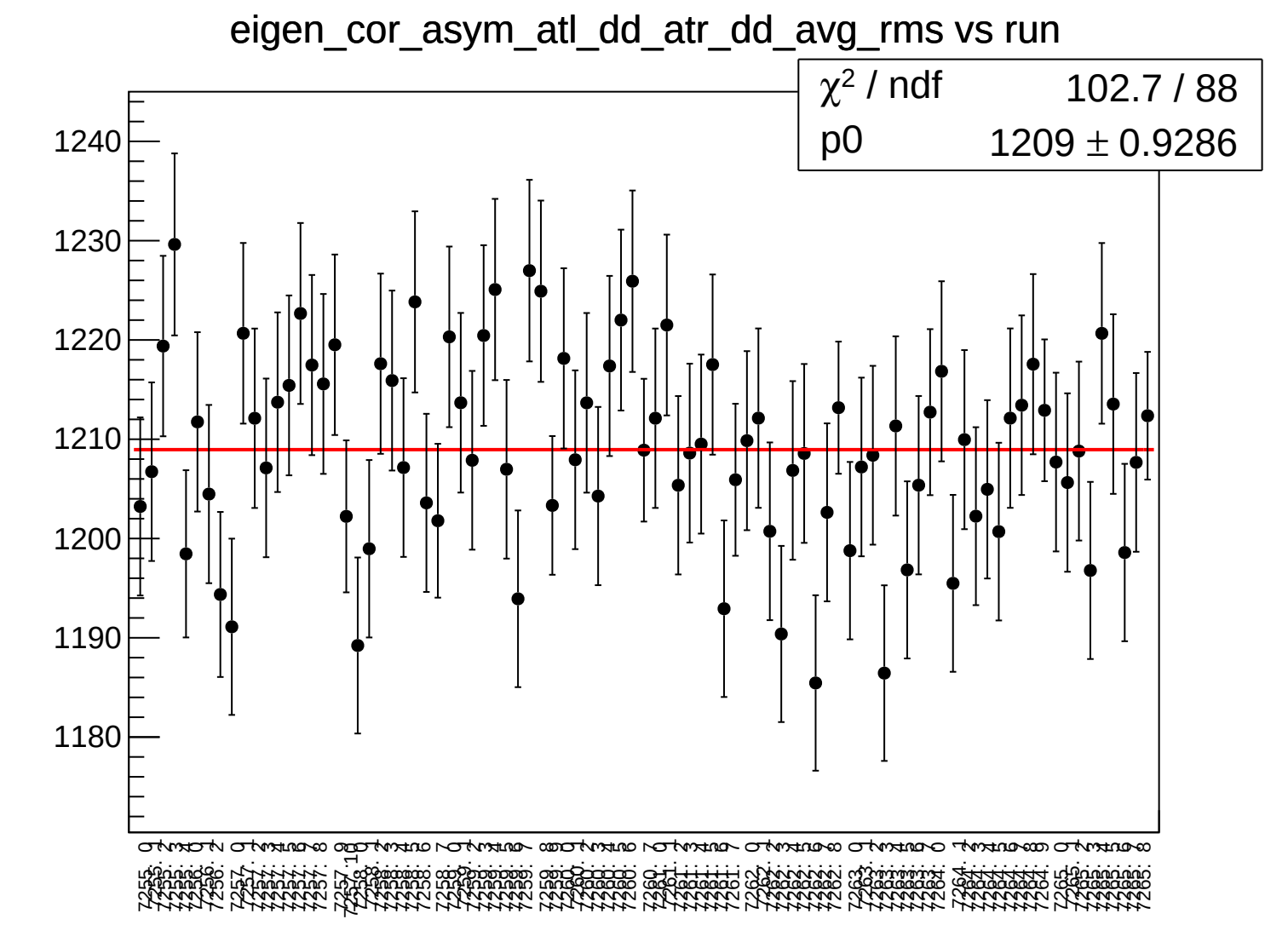

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 102.7 / 88
p0 1209 ± 0.9286
1240
1230
1220
1210
1200
1190
1180

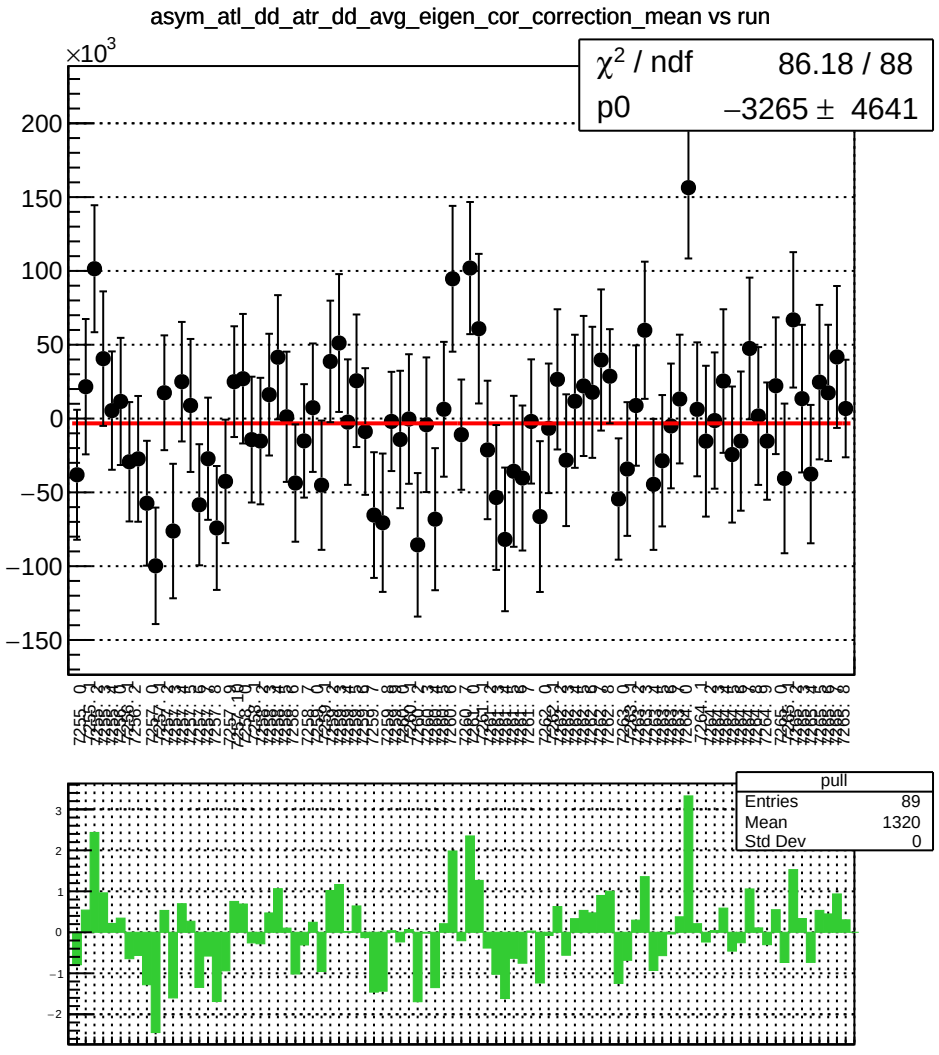

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.18 / 88
p0 −3265 ± 4641
pull
Entries 89
Mean 1320
Std Dev 0

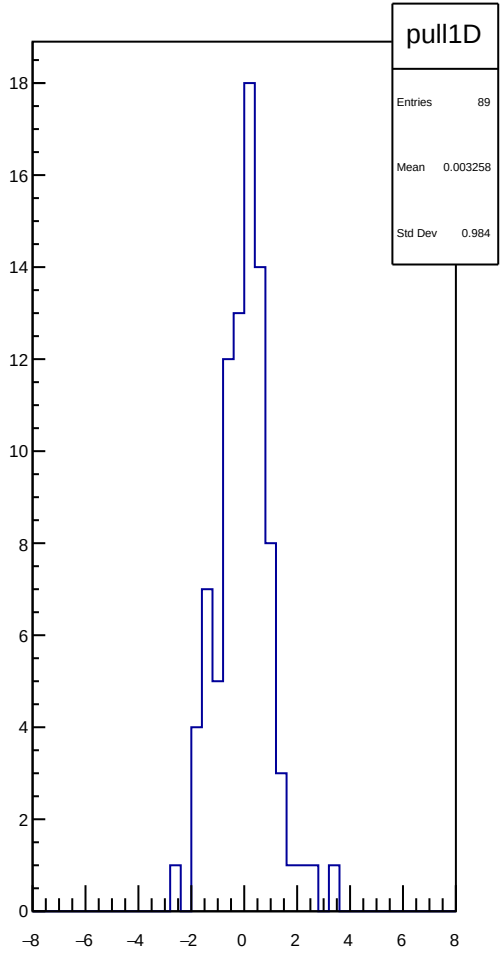

pull1D
Entries 89
Mean 0.003258
Std Dev 0.984

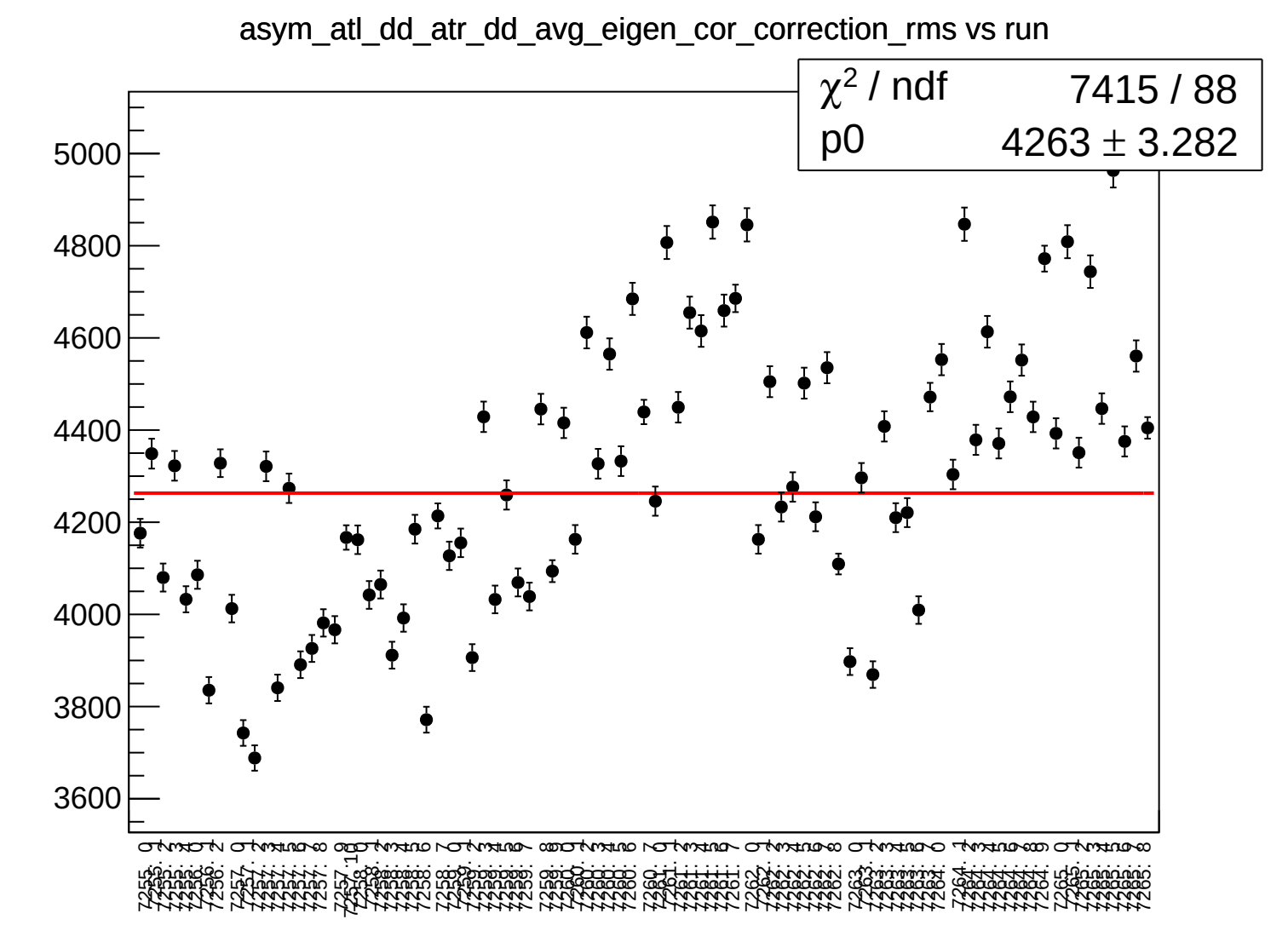

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 7415 / 88
p0 4263 ± 3.282
5000
4800
4600
4400
4200
4000
3800
3600

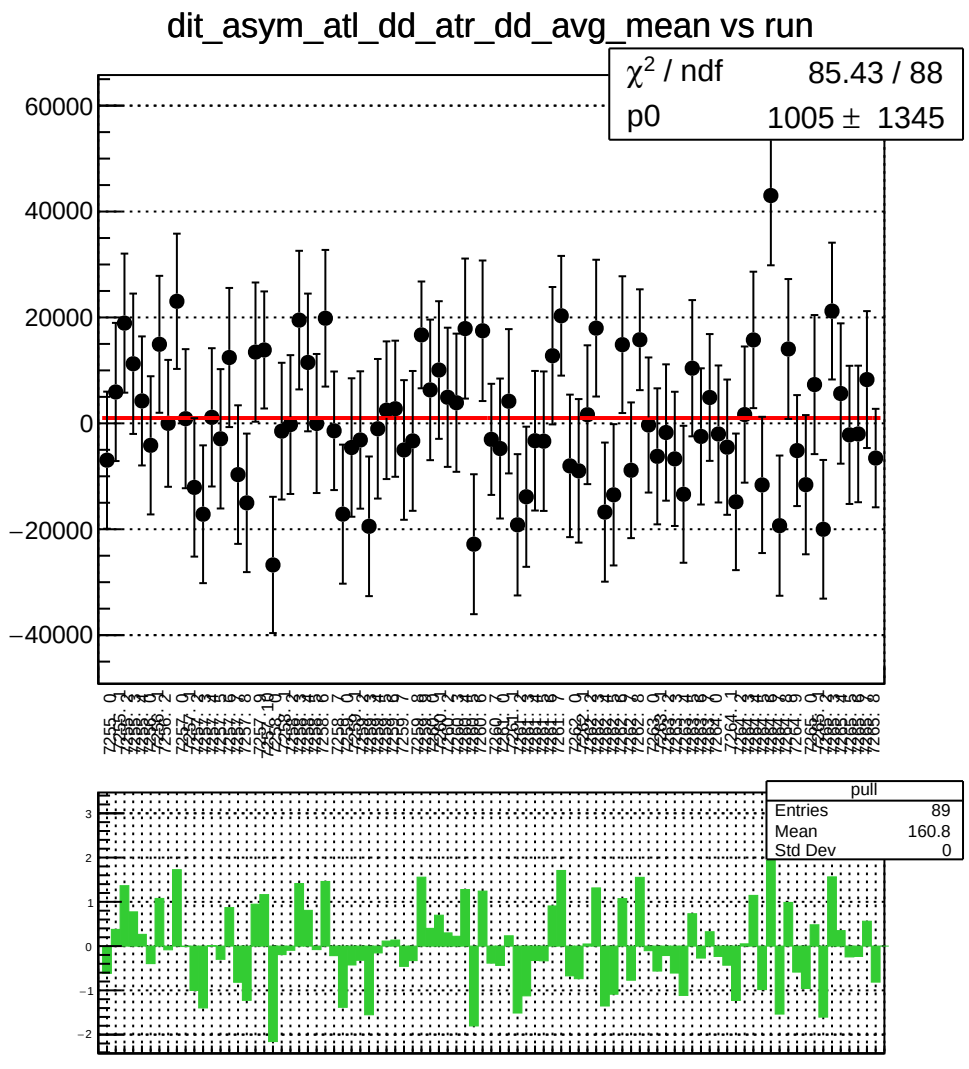

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 87.22 / 88
p0 704.1 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 173.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01065
Std Dev 0.9899
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

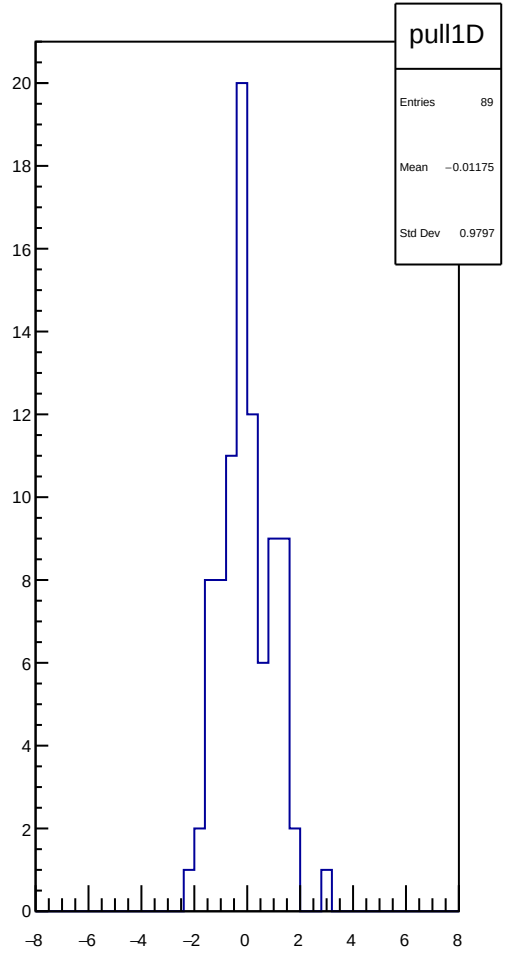

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 102.7 / 88
p0 1209 ± 0.9286
1240
1230
1220
1210
1200
1190
1180

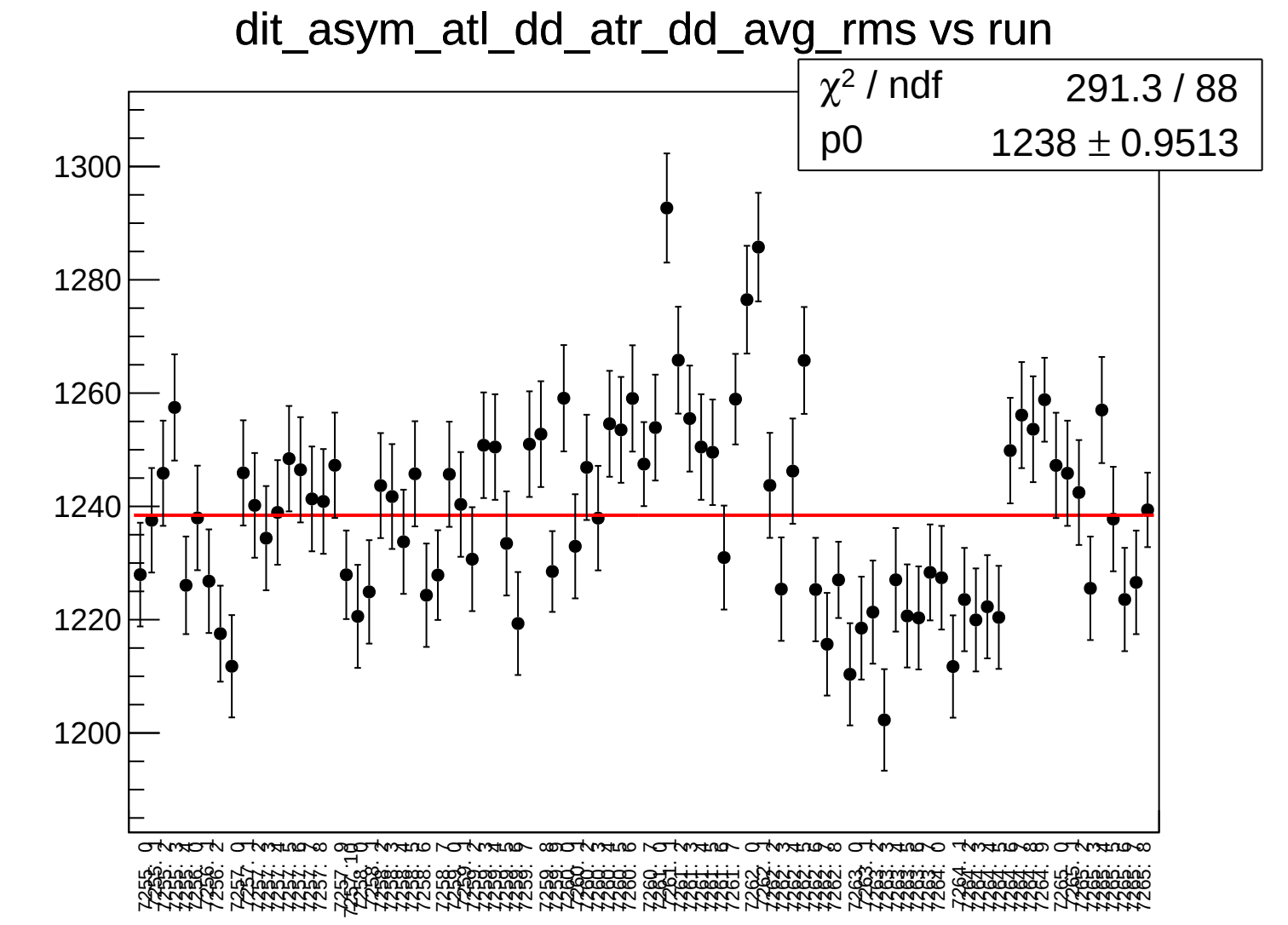

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.18 / 88
p0 −3265 ± 4641
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 1320
Std Dev 0
3
2
1
0
−1
−2

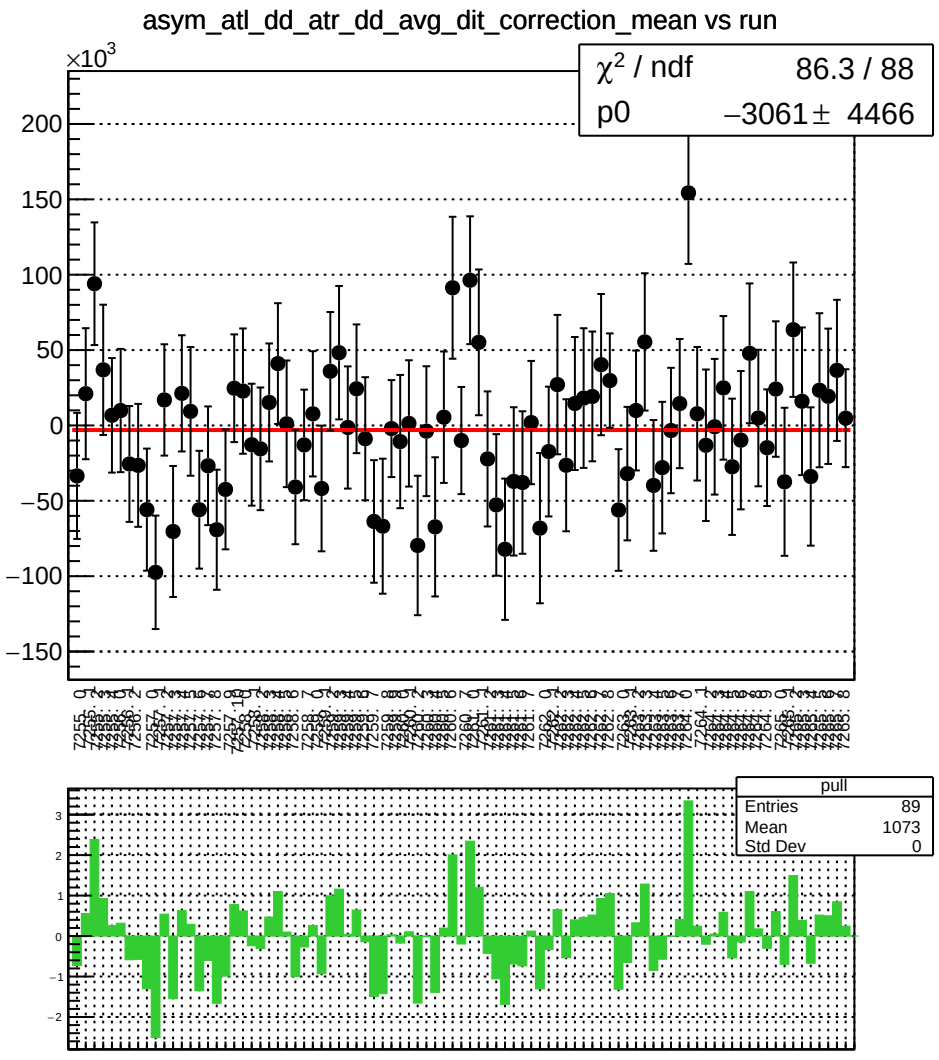

pull1D
Entries 89
Mean 0.003258
Std Dev 0.984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

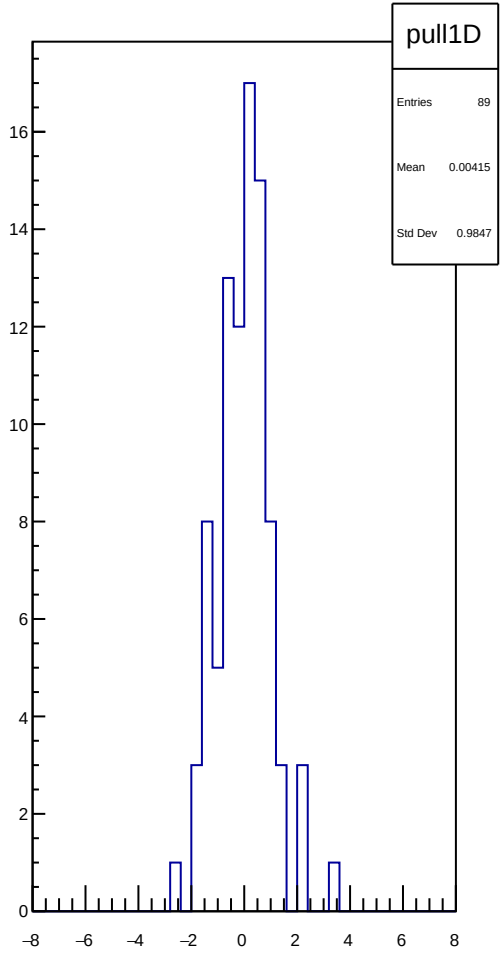

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7415 / 88
p0 4263 ± 3.282
5000
4800
4600
4400
4200
4000
3800
3600

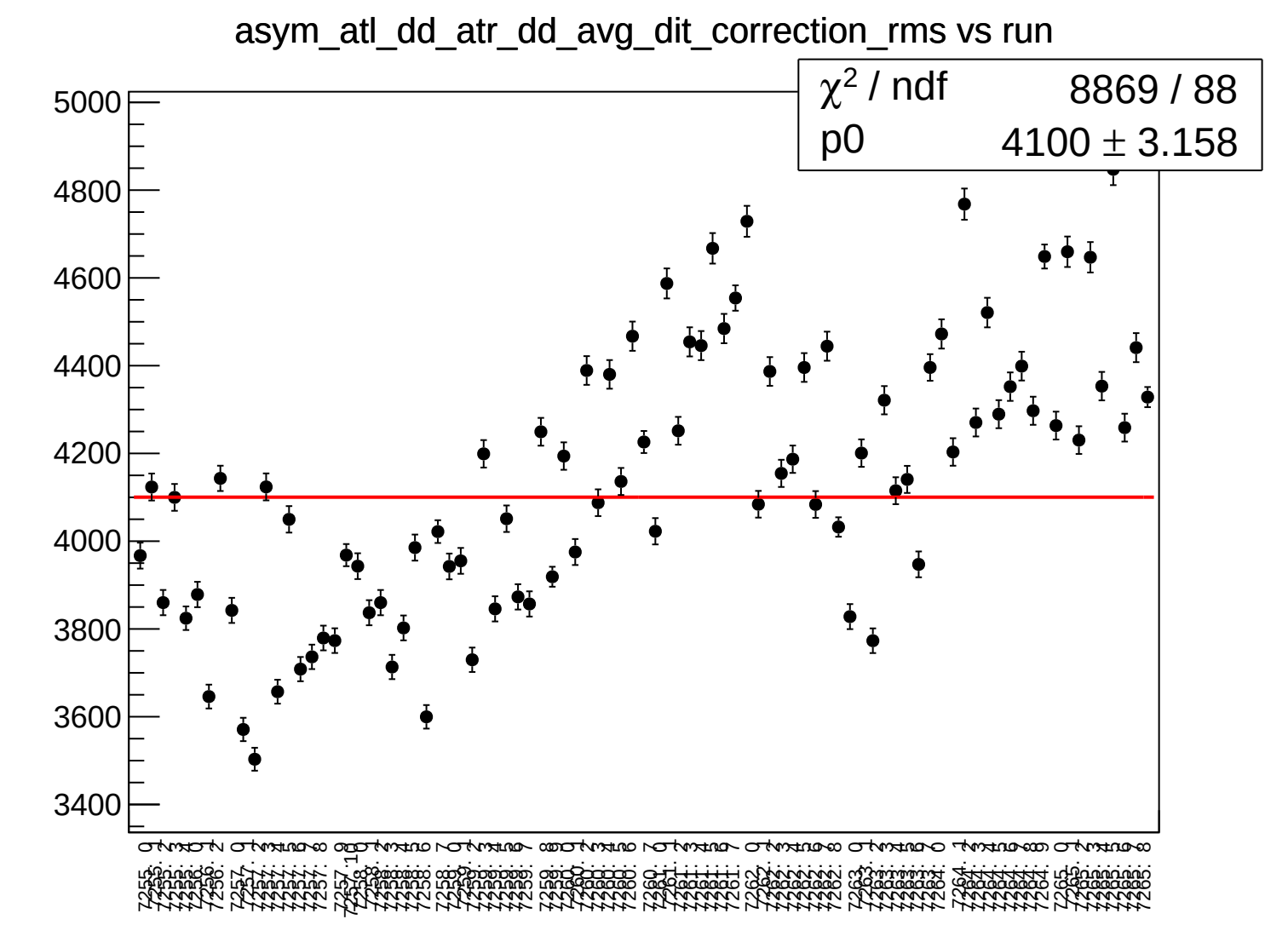

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 85.43 / 88
p0 1005 ± 1345
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 160.8
Std Dev 0
3
2
1
0
−1
−2

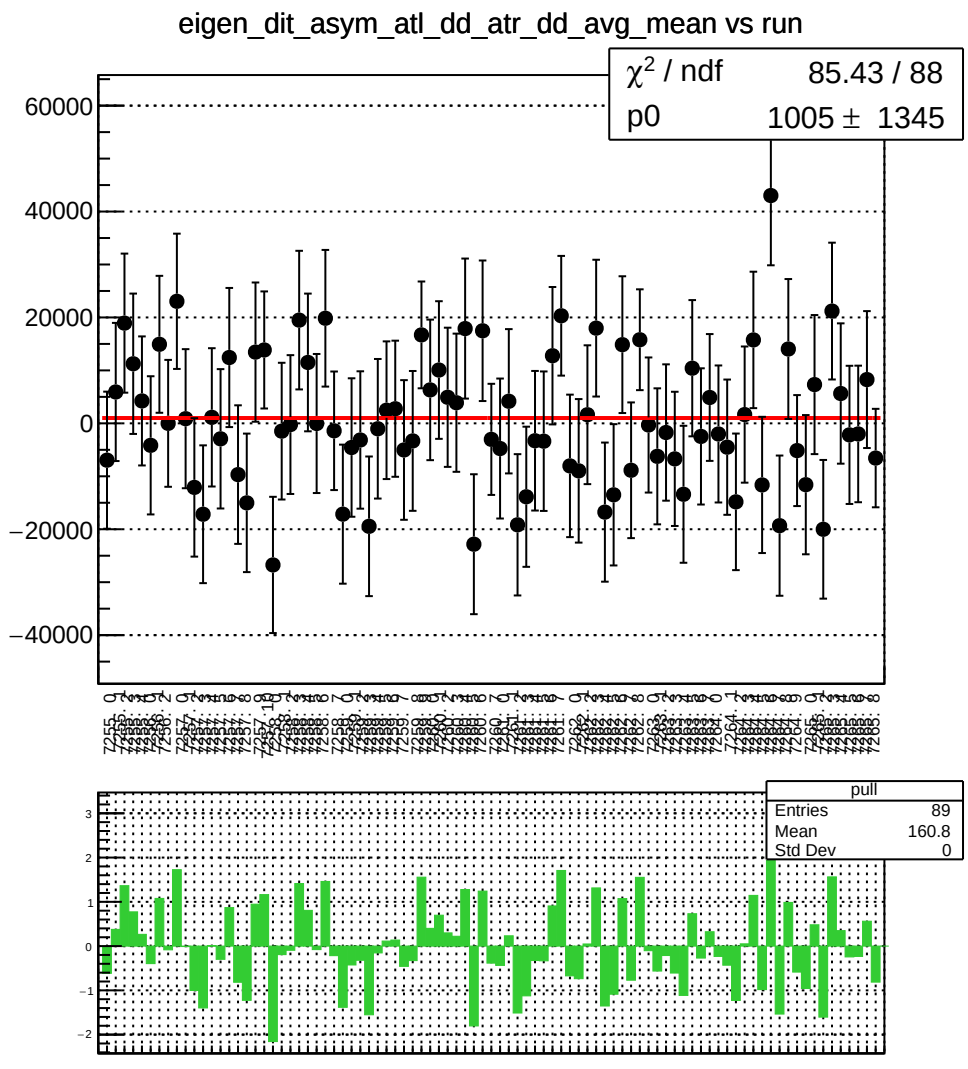

pull1D
Entries 89
Mean −0.01175
Std Dev 0.9797
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

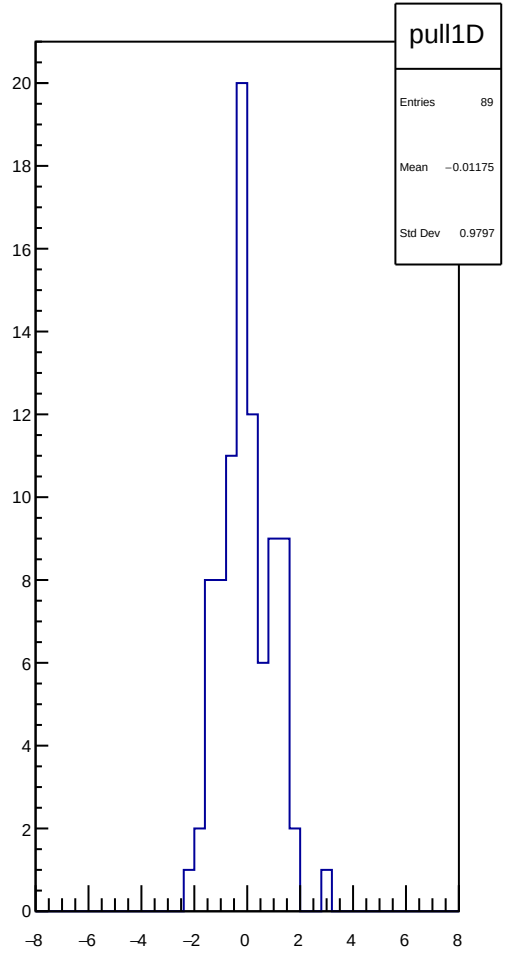

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 291.3 / 88
p0 1238 ± 0.9513
1300
1280
1260
1240
1220
1200

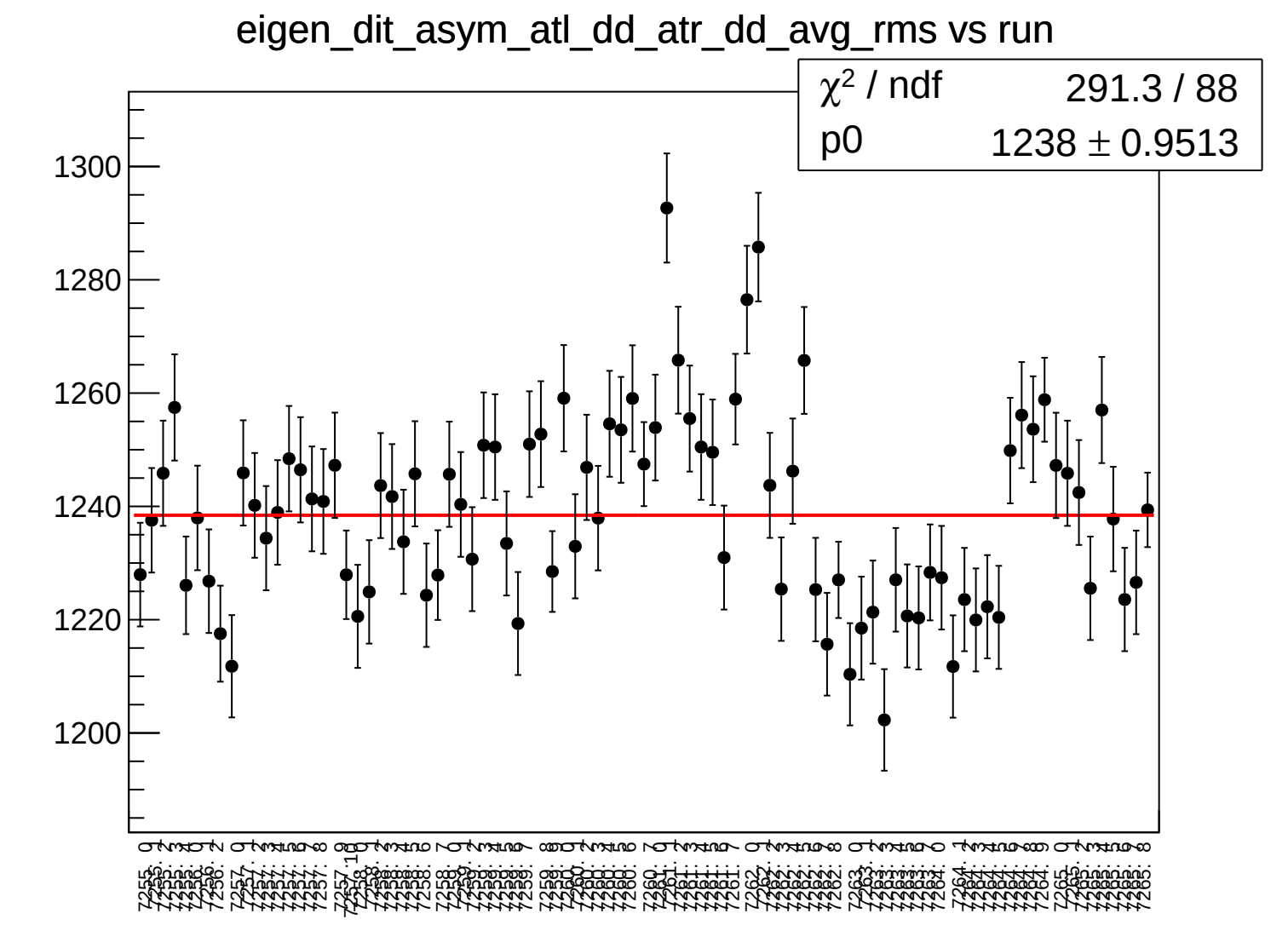

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.3 / 88
p0 −3061 ± 4466
pull
Entries 89
Mean 1073
Std Dev 0

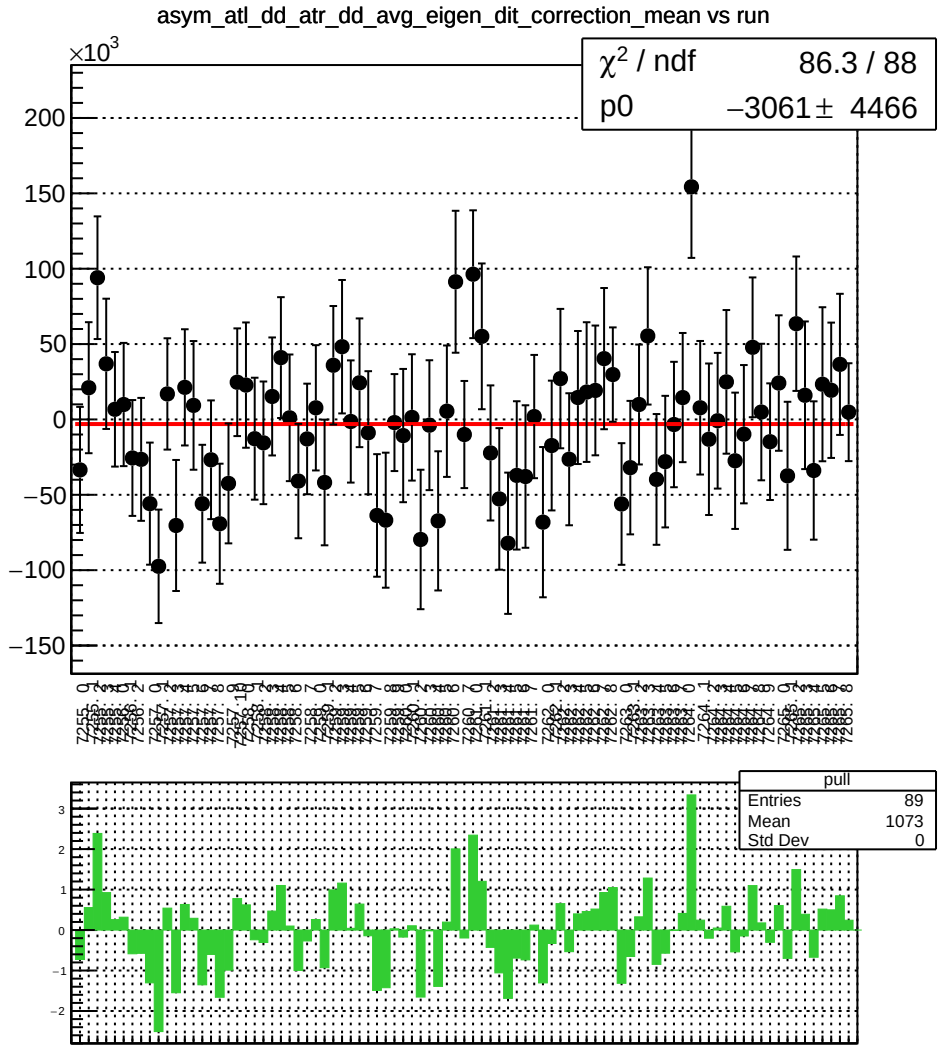

pull1D
Entries 89
Mean 0.00415
Std Dev 0.9847

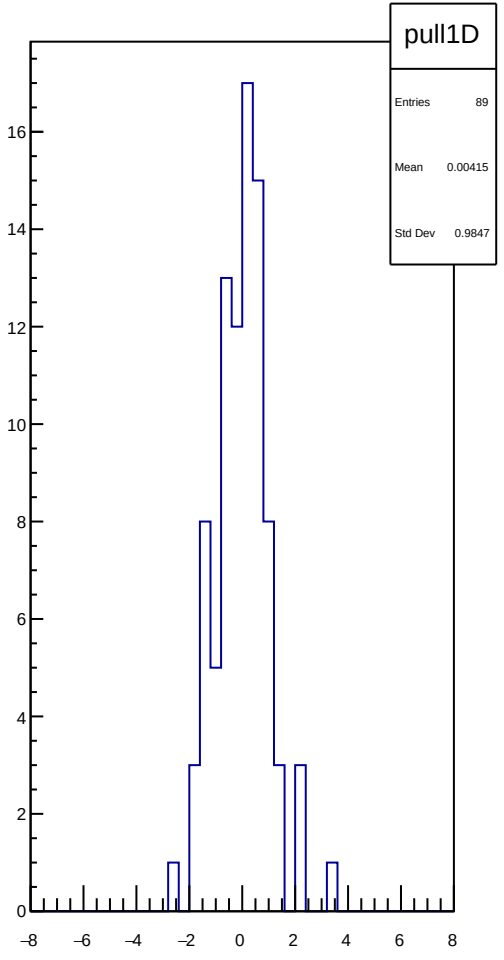

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 8869 / 88
p0 4100 ± 3.158
5000
4800
4600
4400
4200
4000
3800
3600
3400

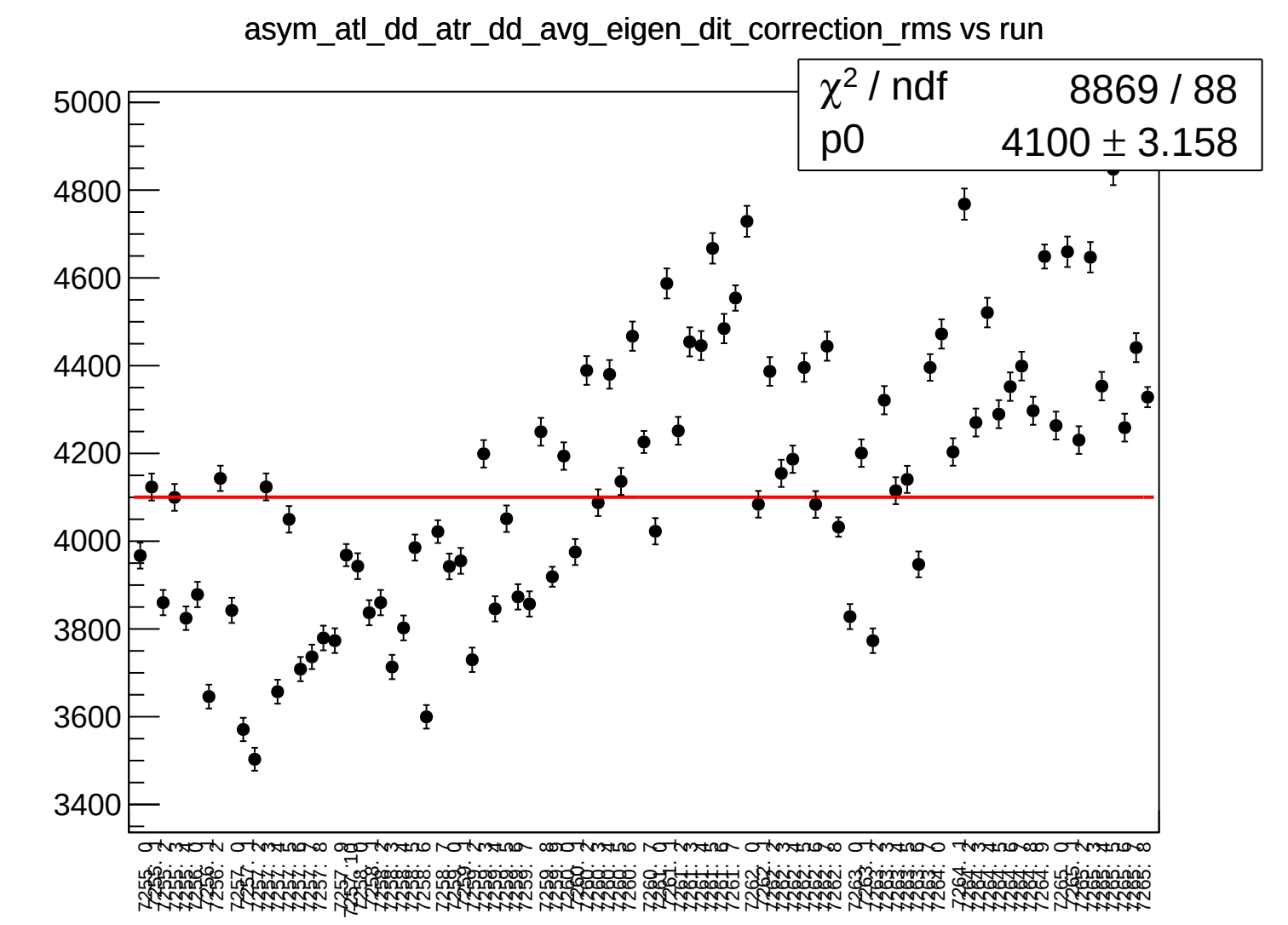

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 85.43 / 88
p0 1005 ± 1345
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 160.8
Std Dev 0
3
2
1
0
−1
−2

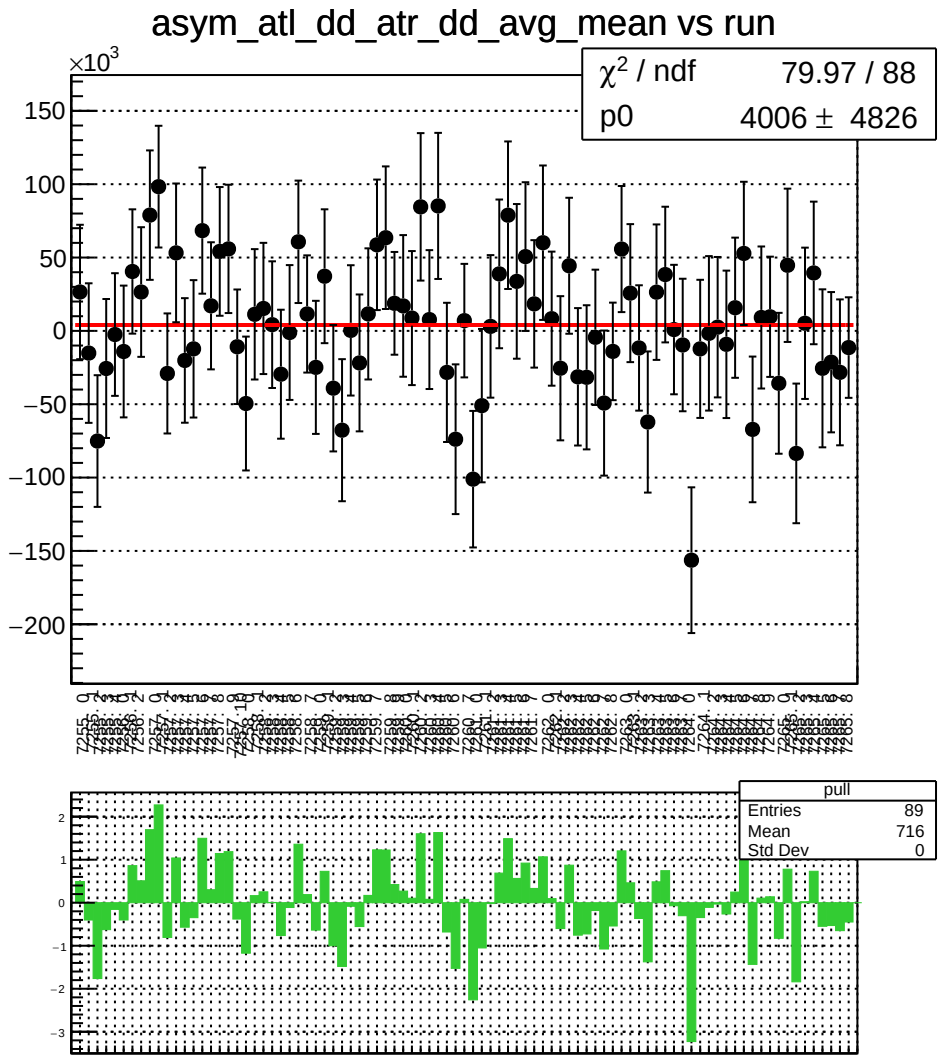

pull1D
Entries 89
Mean −0.01175
Std Dev 0.9797
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

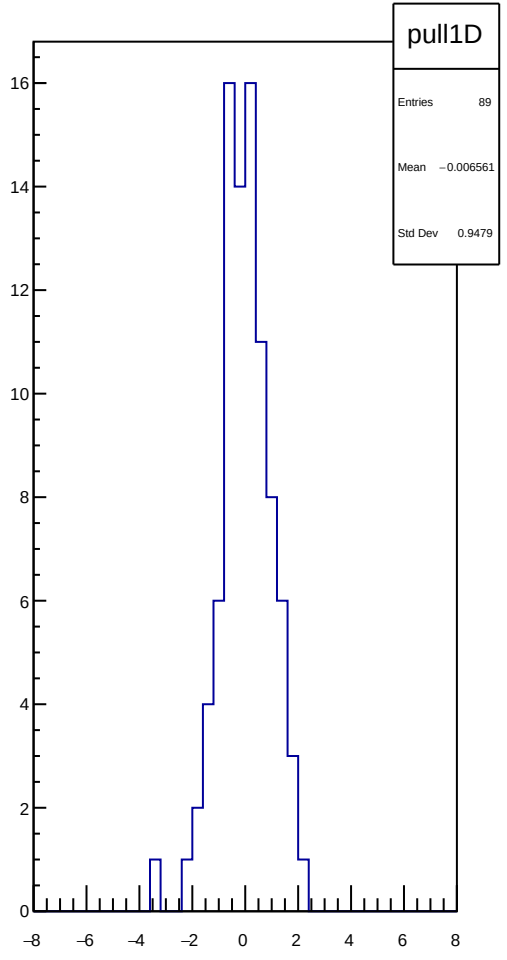

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 291.3 / 88
p0 1238 ± 0.9513
1300
1280
1260
1240
1220
1200

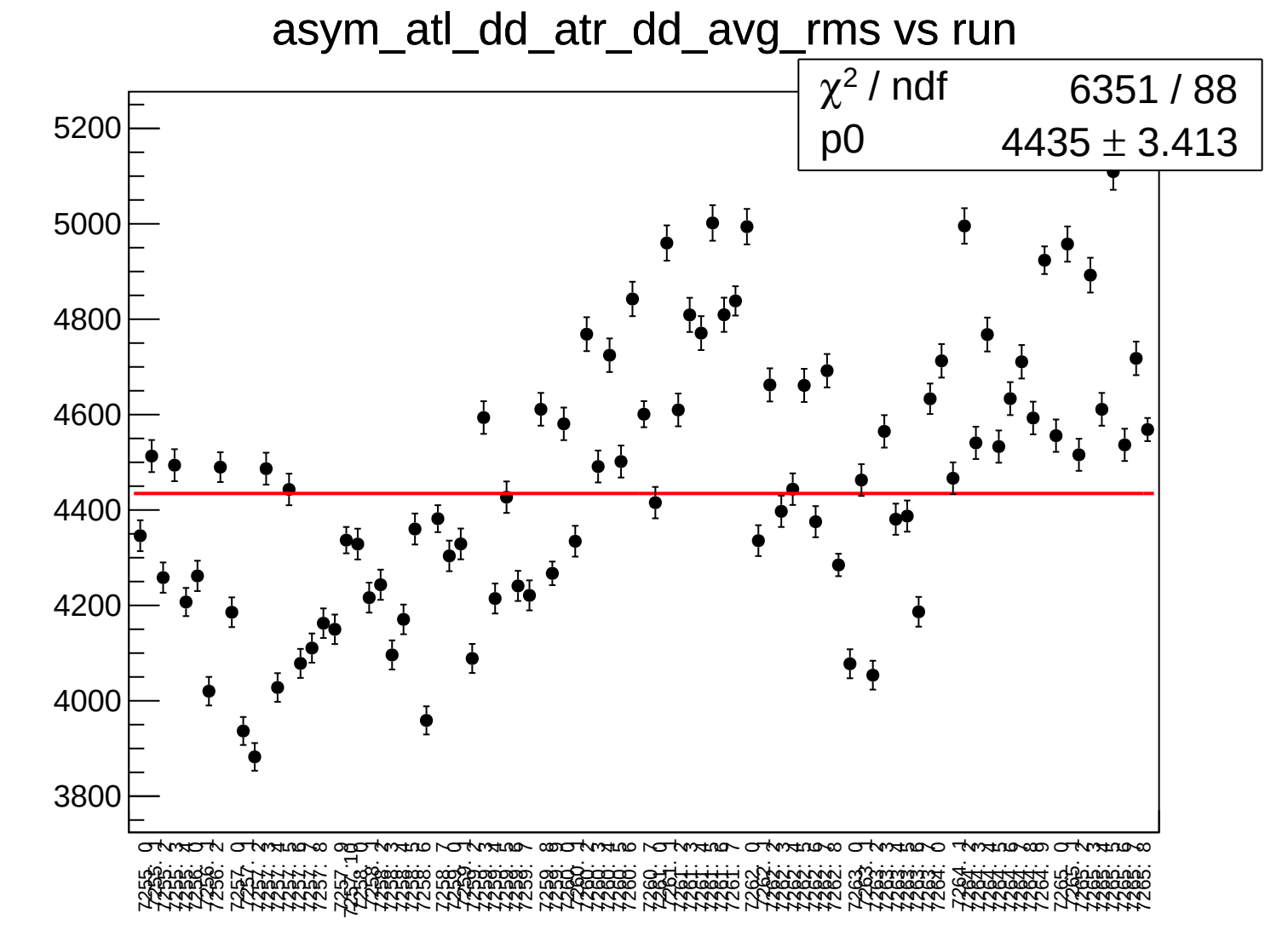

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.3 / 88
p0 −3061 ± 4466
pull
Entries 89
Mean 1073
Std Dev 0

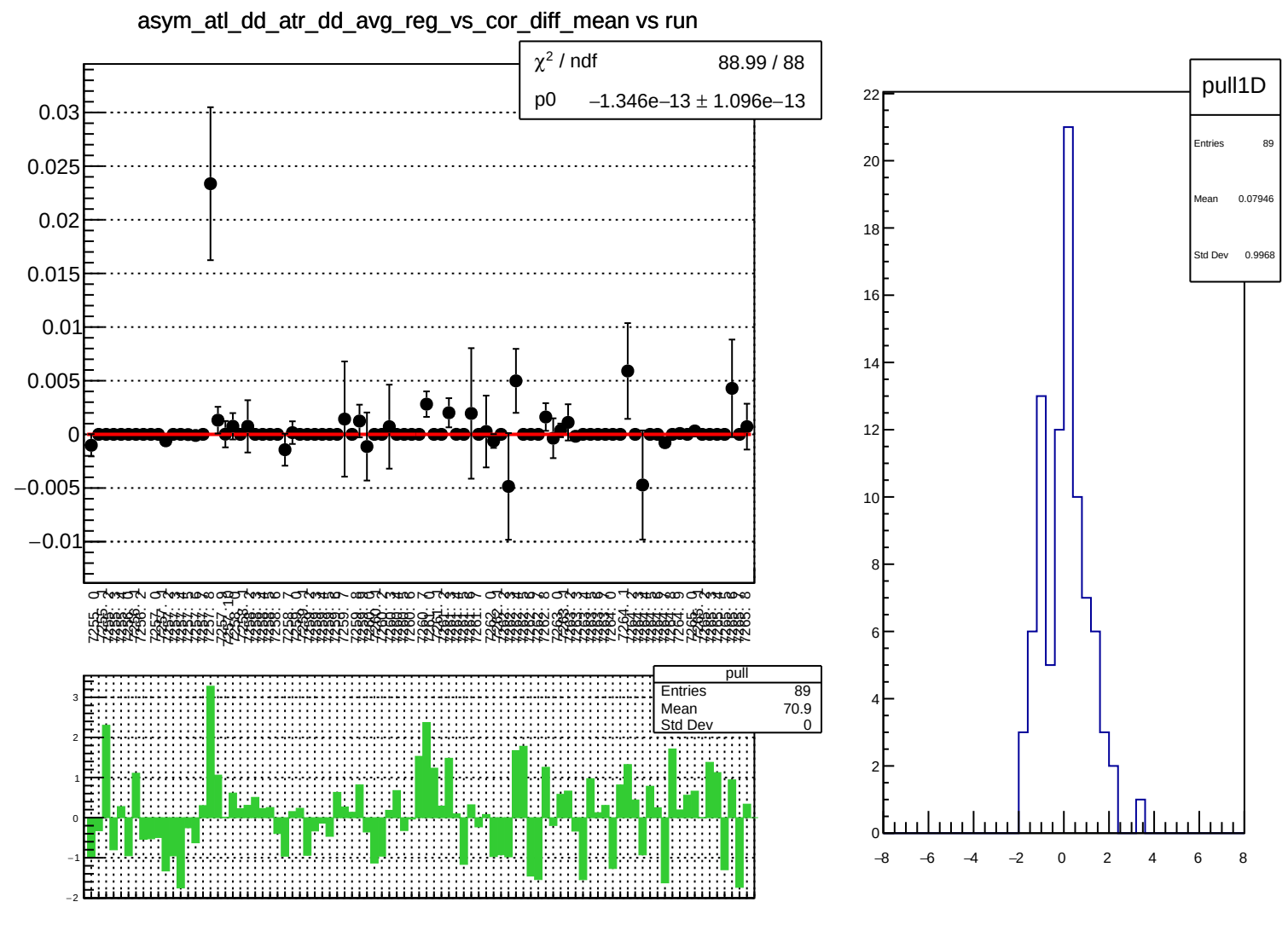

pull1D
Entries 89
Mean 0.00415
Std Dev 0.9847

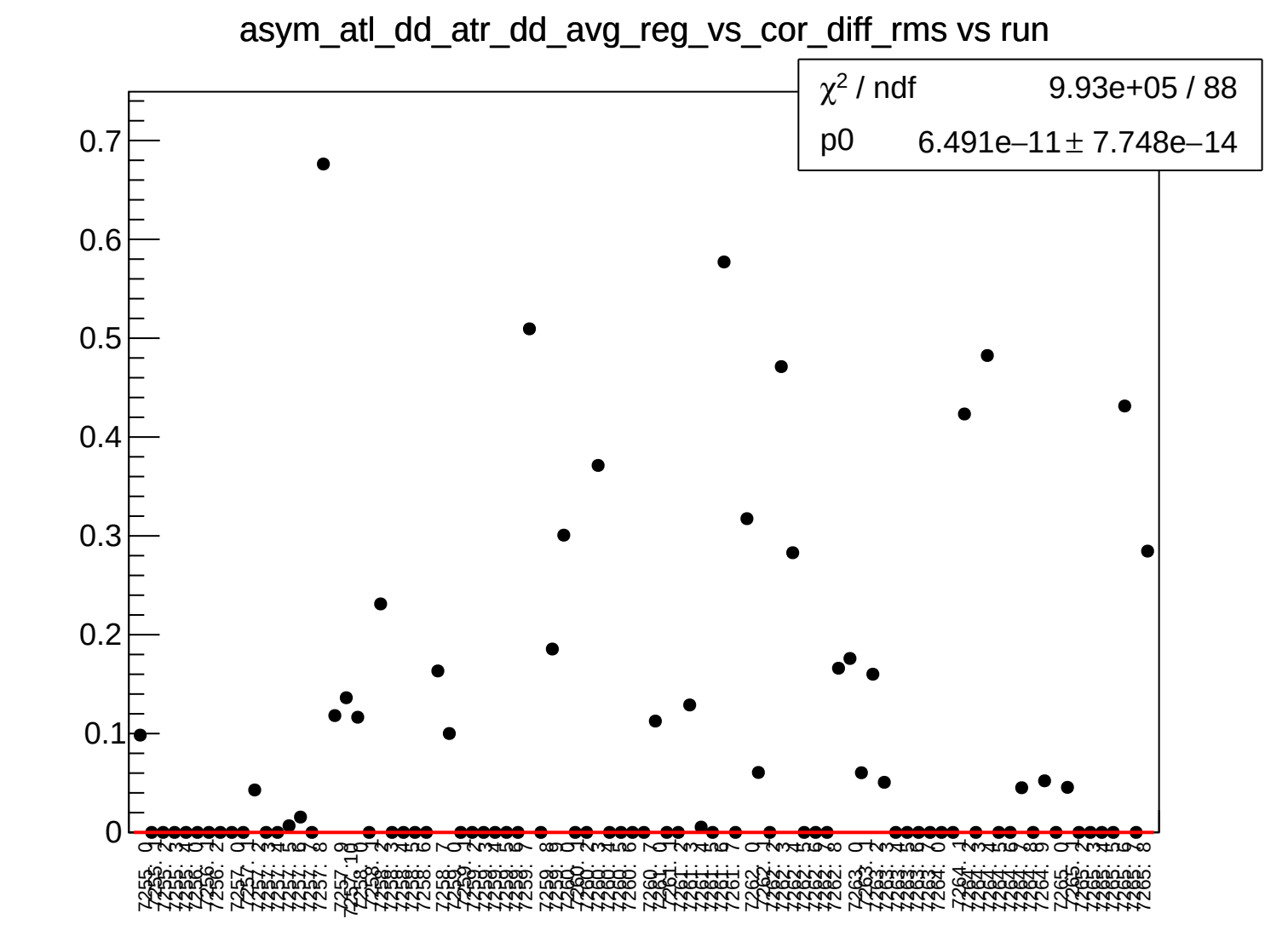

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 8869 / 88
p0 4100 ± 3.158
5000
4800
4600
4400
4200
4000
3800
3600
3400

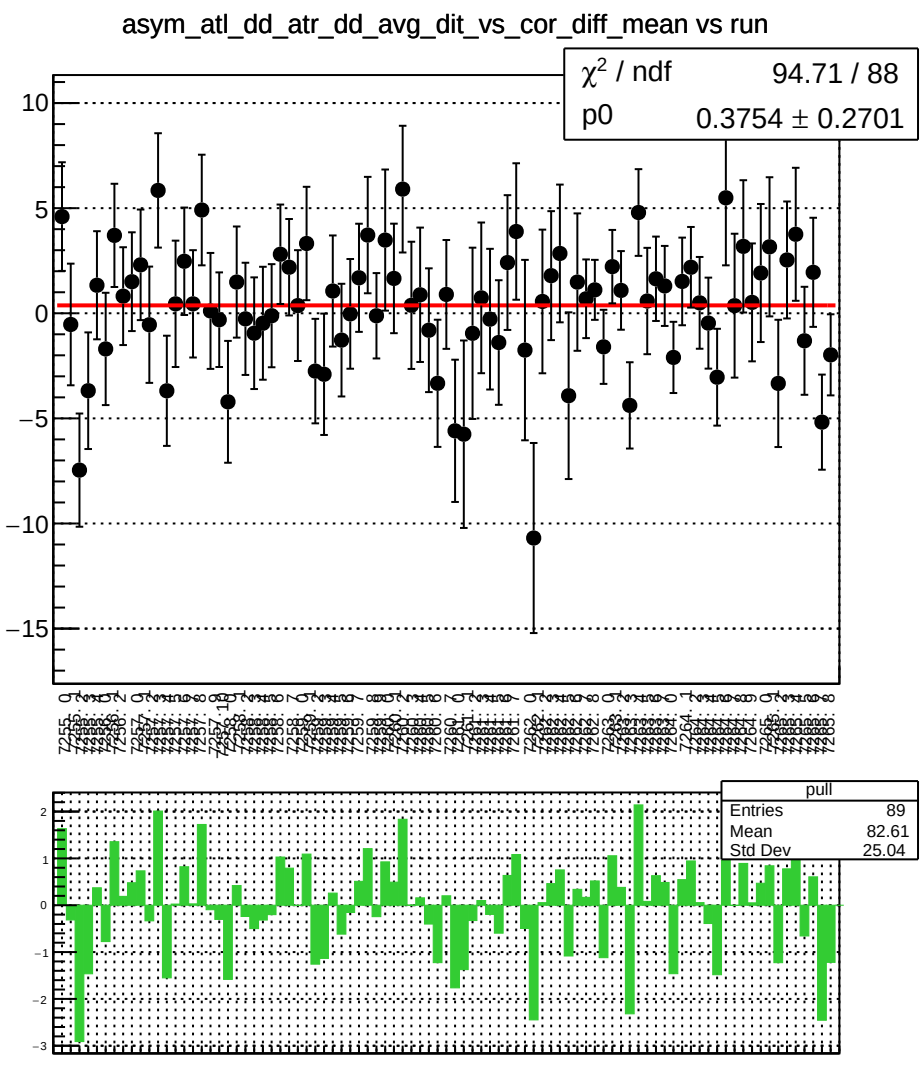

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 79.97 / 88
p0 4006 ± 4826
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 716
Std Dev 0
2
1
0
−1
−2
−3

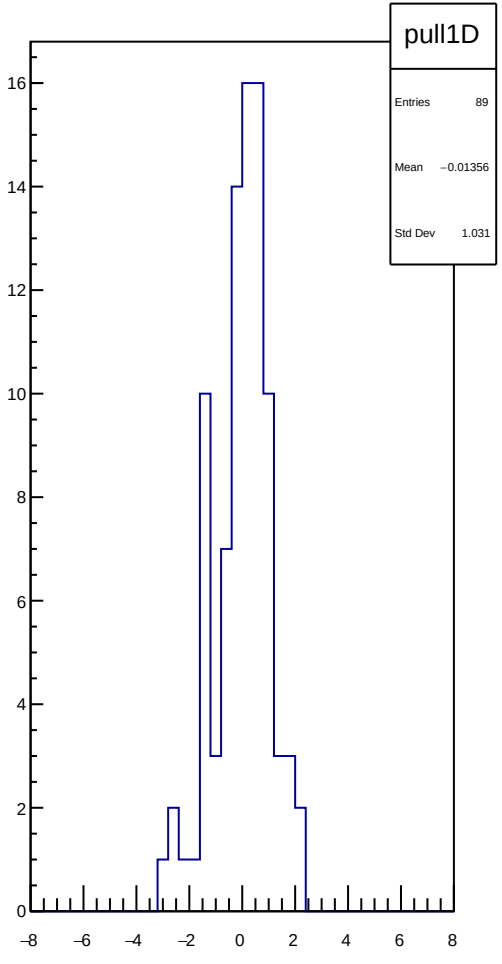

pull1D
Entries 89
Mean −0.006561
Std Dev 0.9479
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

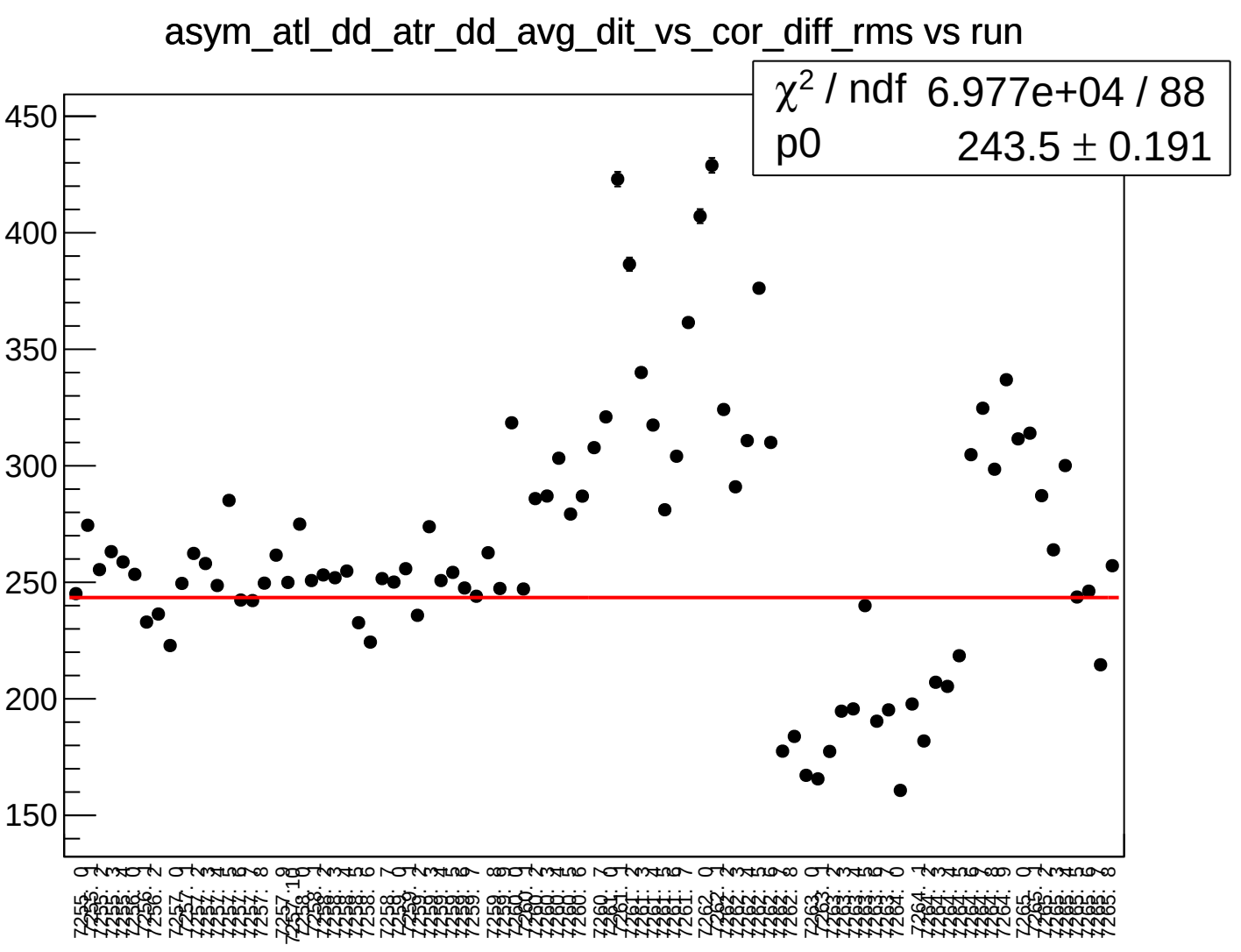

asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 6351 / 88
p0 4435 ± 3.413
5200
5000
4800
4600
4400
4200
4000
3800

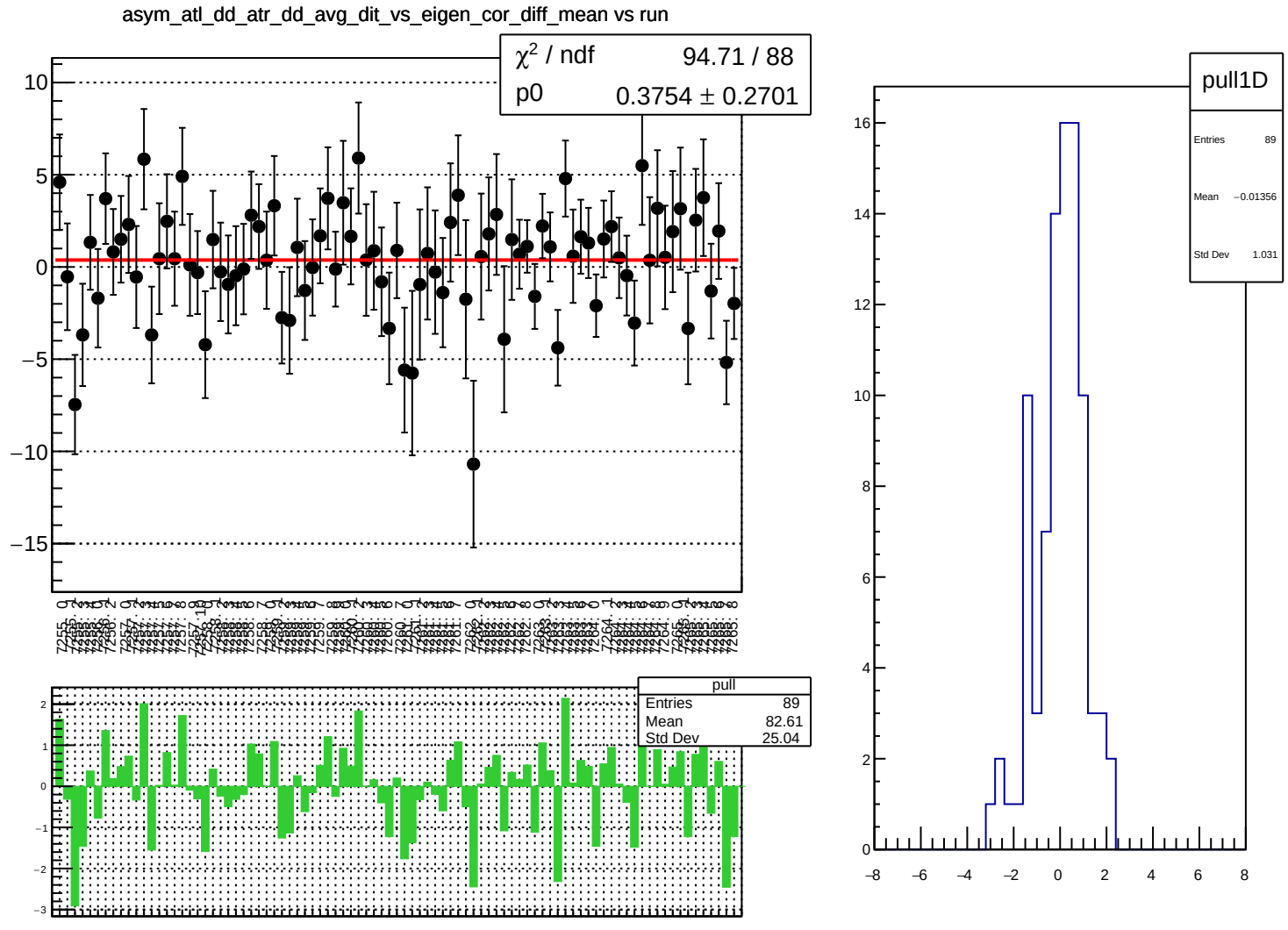

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.99 / 88
p0 −1.346e−13 ± 1.096e−13
pull
Entries 89
Mean 70.9
Std Dev 0
pull1D
Entries 89
Mean 0.07946
Std Dev 0.9968

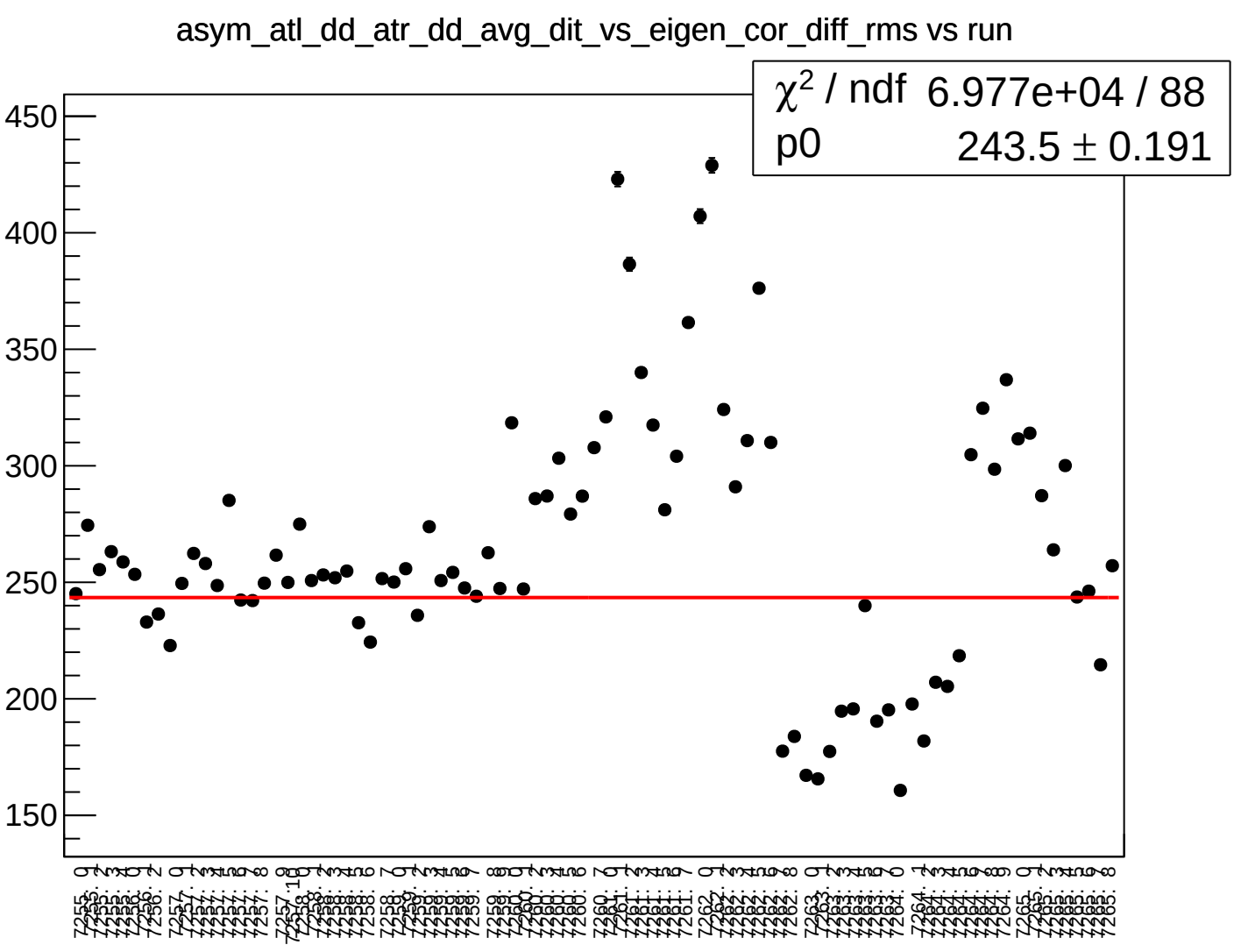

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.93e+05 / 88
p0 6.491e−11 ± 7.748e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

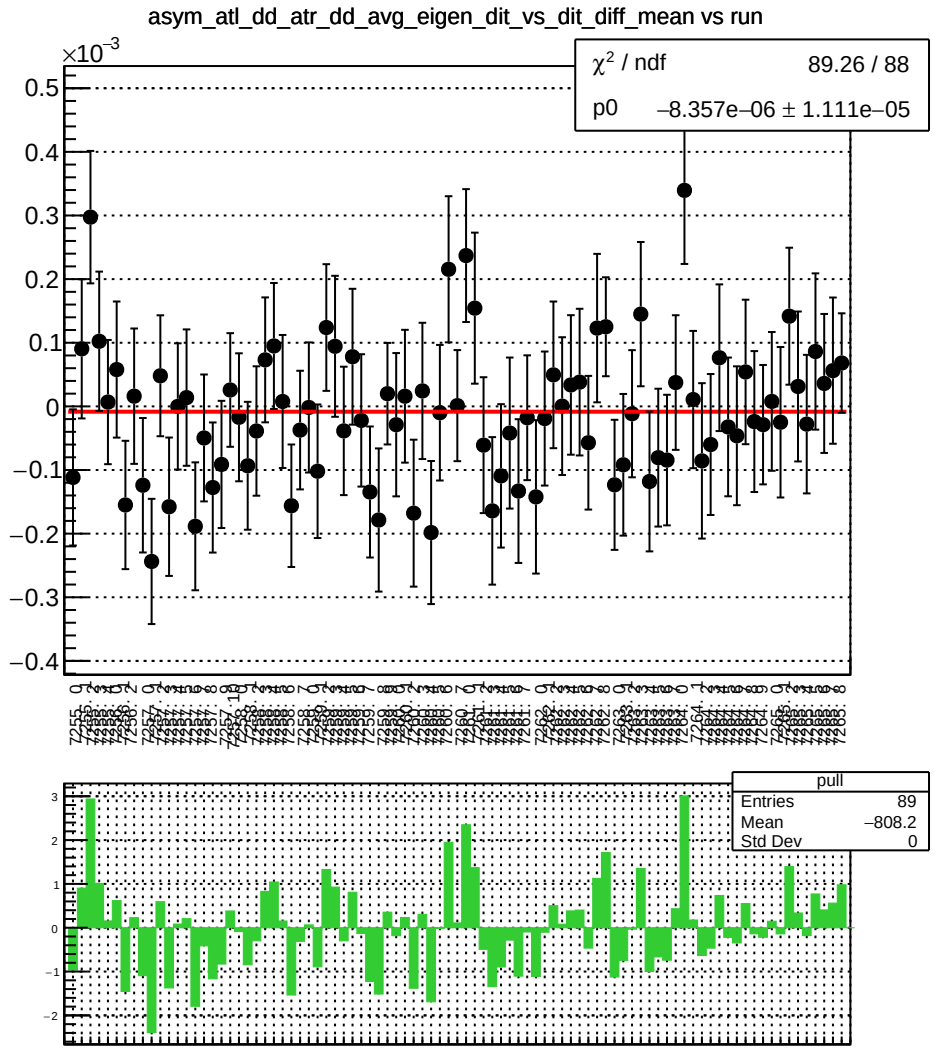

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.71 / 88
p0 0.3754 ± 0.2701
pull
Entries 89
Mean 82.61
Std Dev 25.04

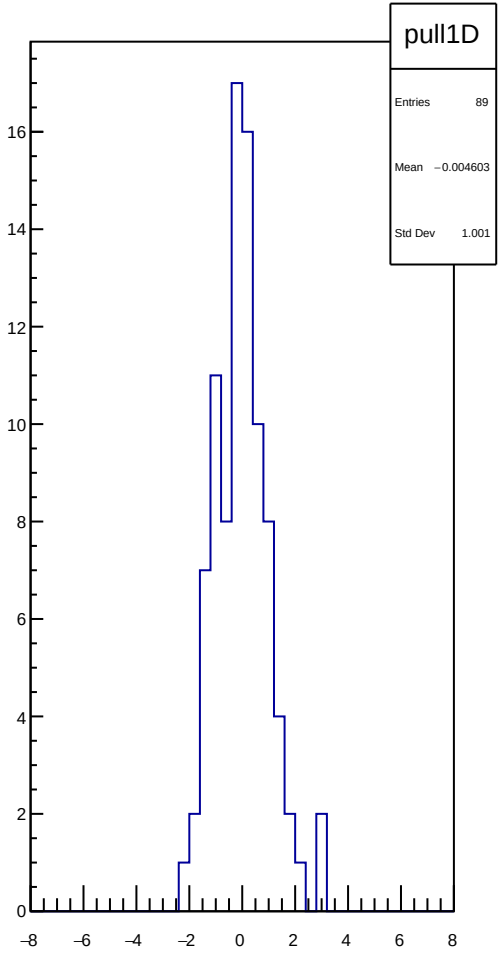

pull1D
Entries 89
Mean −0.01356
Std Dev 1.031

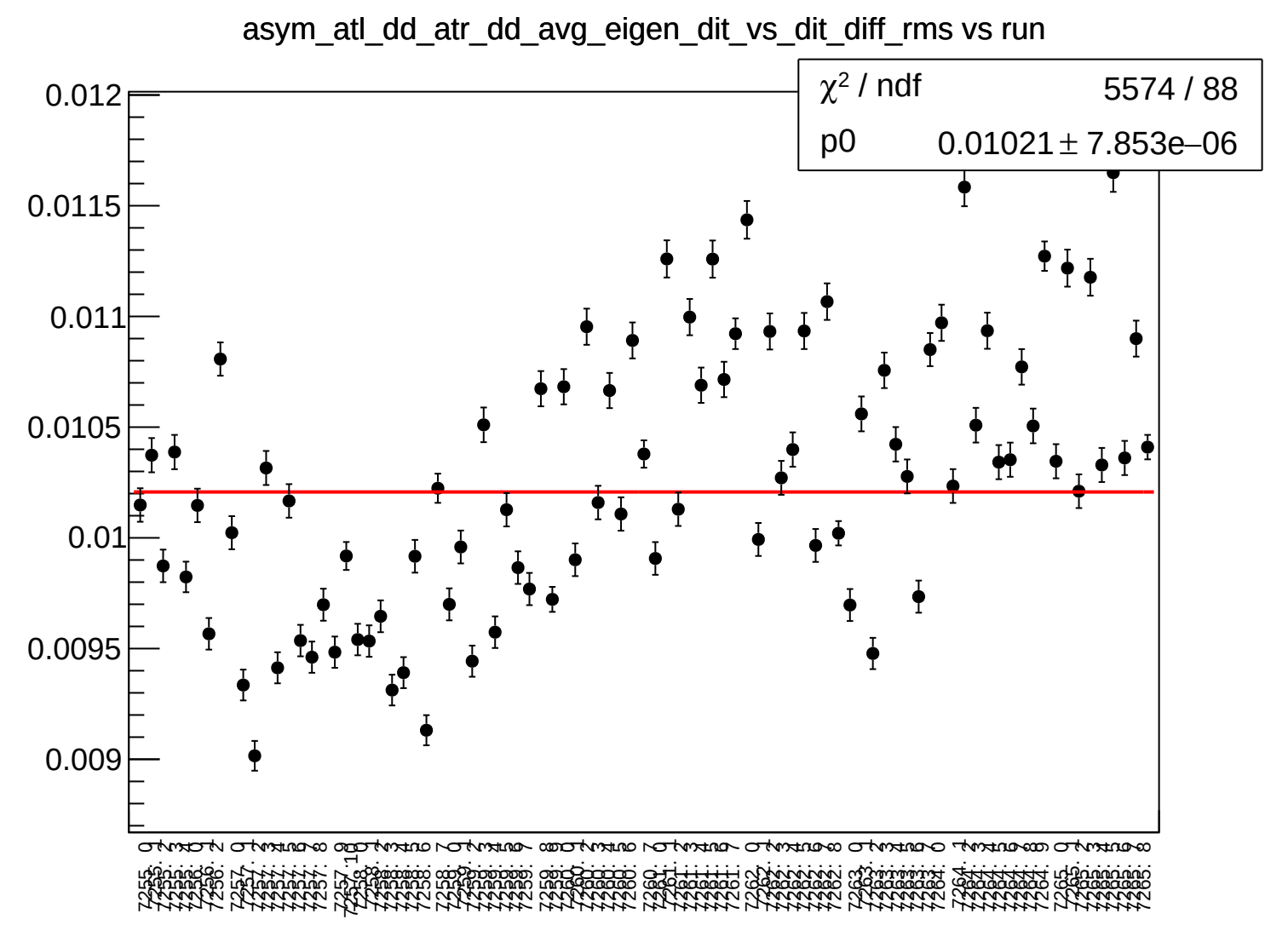

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.977e+04 / 88
p0 243.5 ± 0.191
450
400
350
300
250
200
150

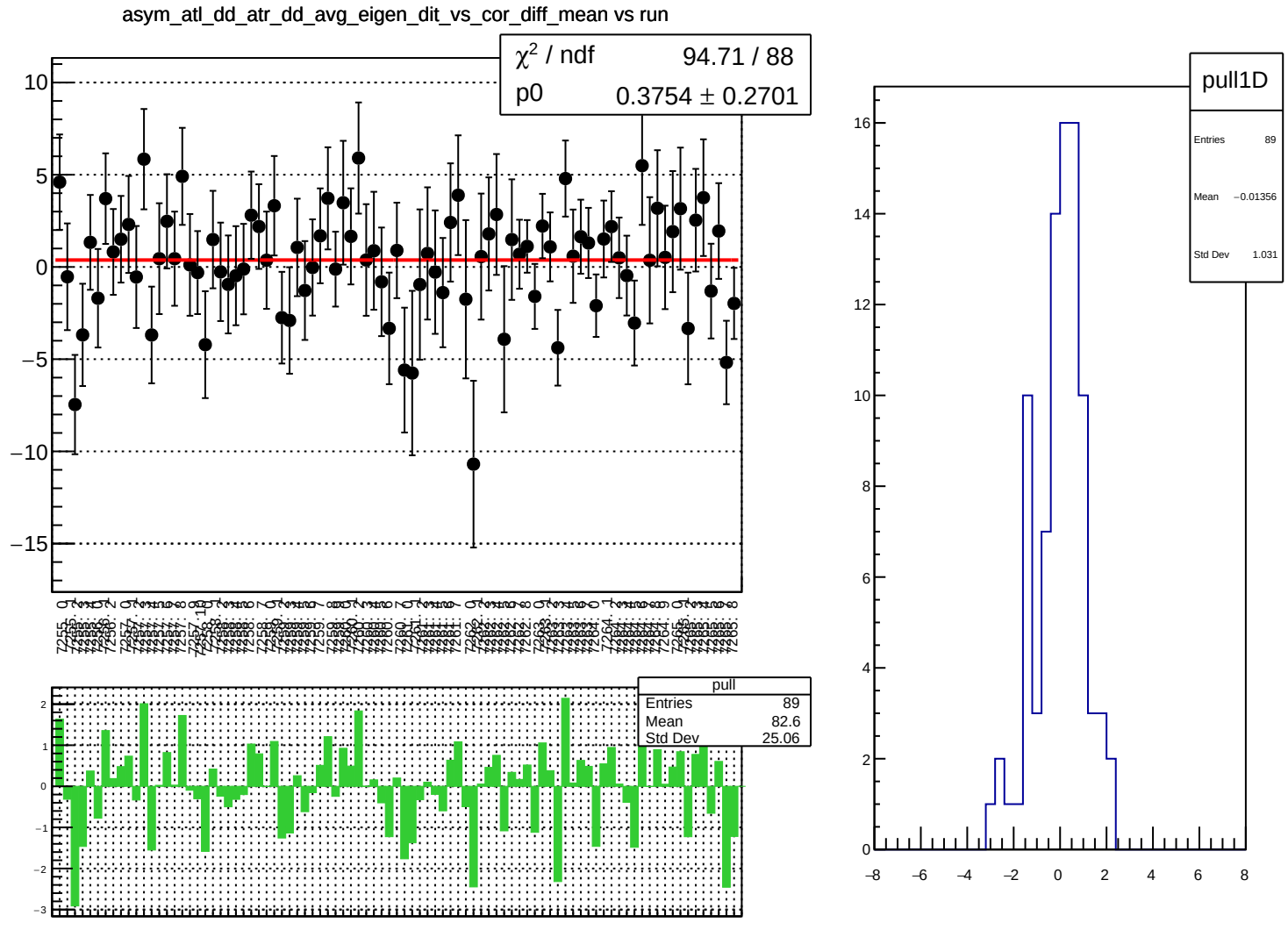

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.71 / 88
p0 0.3754 ± 0.2701
pull
Entries 89
Mean 82.61
Std Dev 25.04
pull1D
Entries 89
Mean −0.01356
Std Dev 1.031

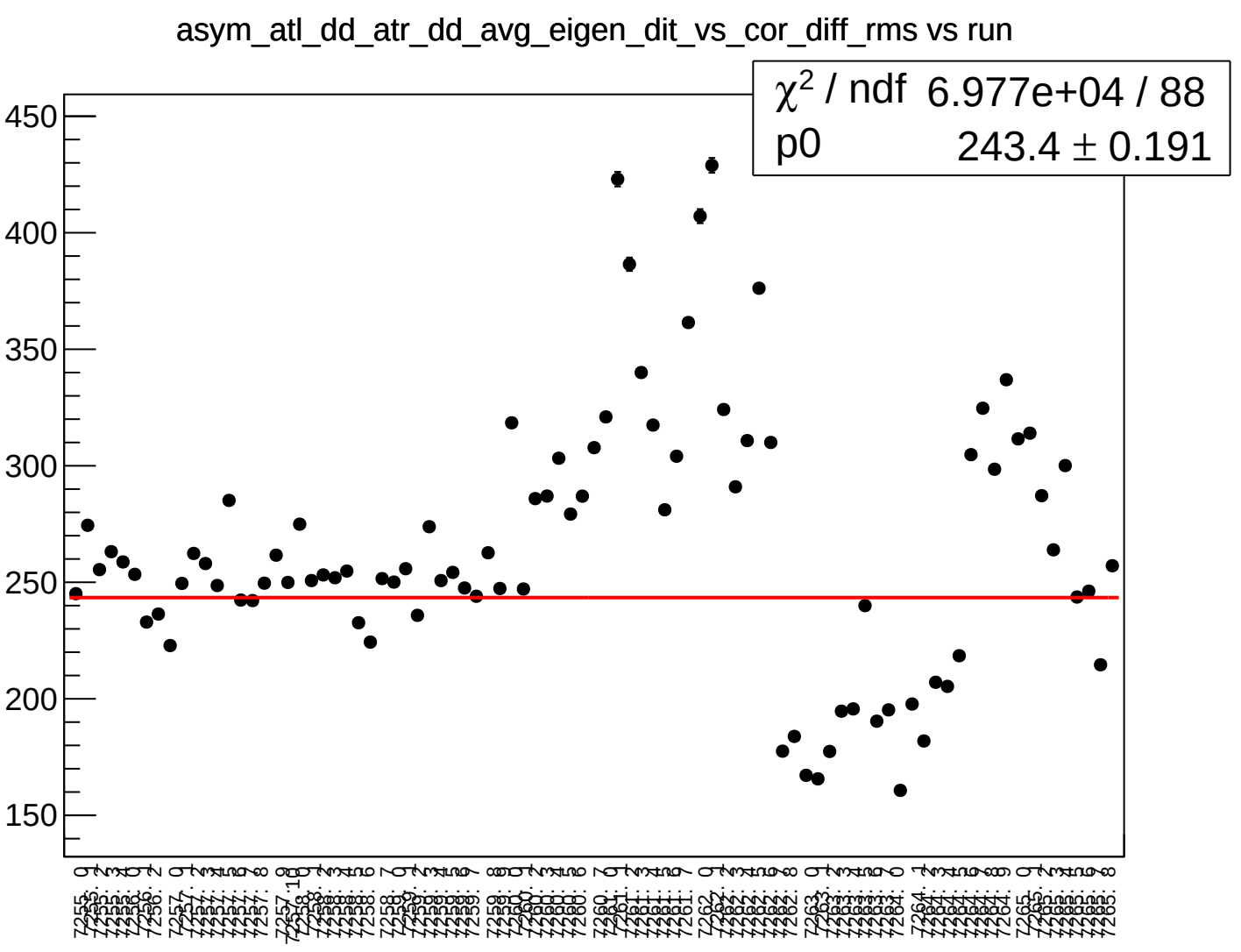

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.977e+04 / 88
p0 243.5 ± 0.191
450
400
350
300
250
200
150

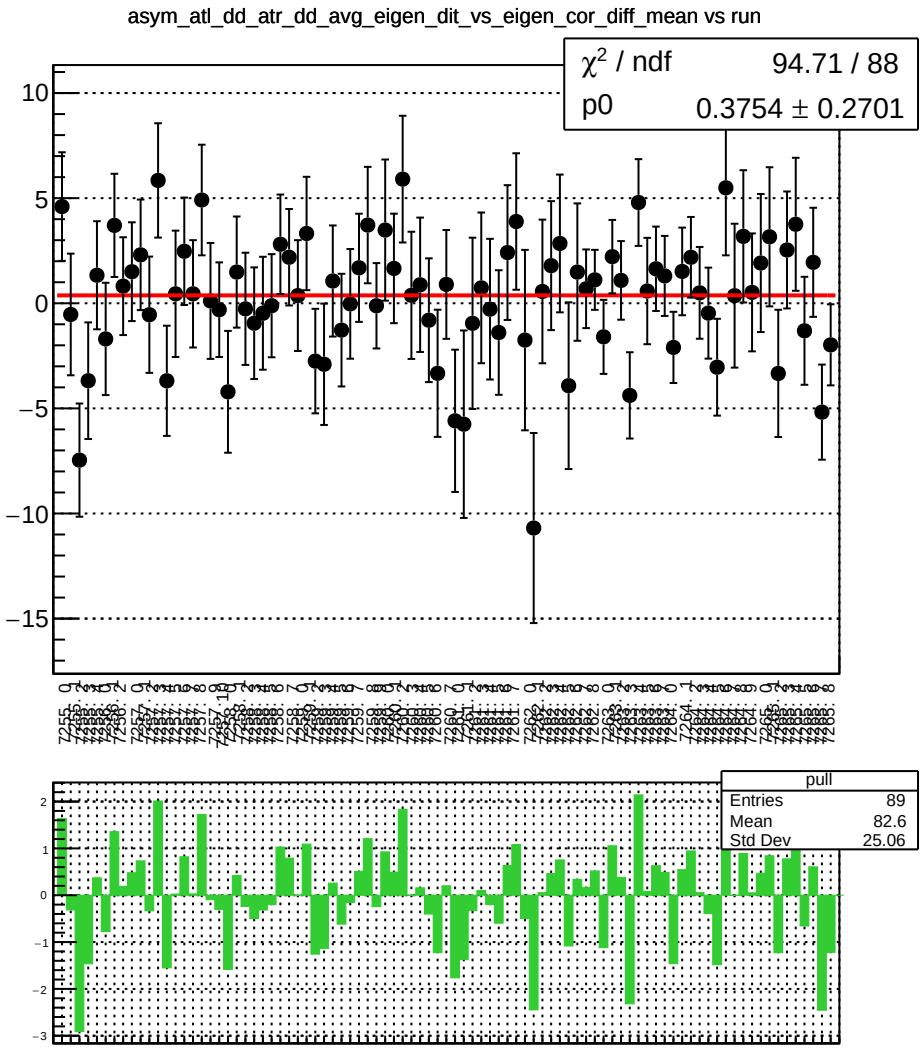

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.26 / 88
p0 −8.357e−06 ± 1.111e−05
pull
Entries 89
Mean −808.2
Std Dev 0

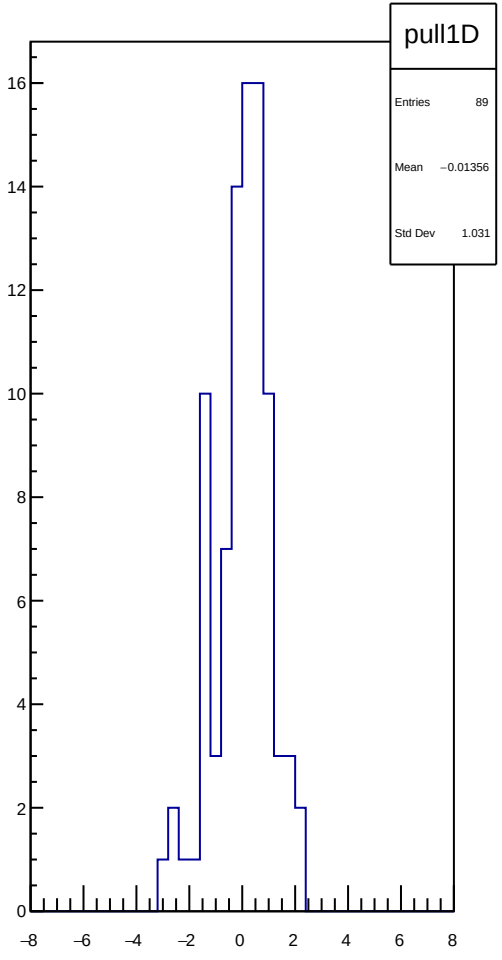

pull1D
Entries 89
Mean −0.004603
Std Dev 1.001

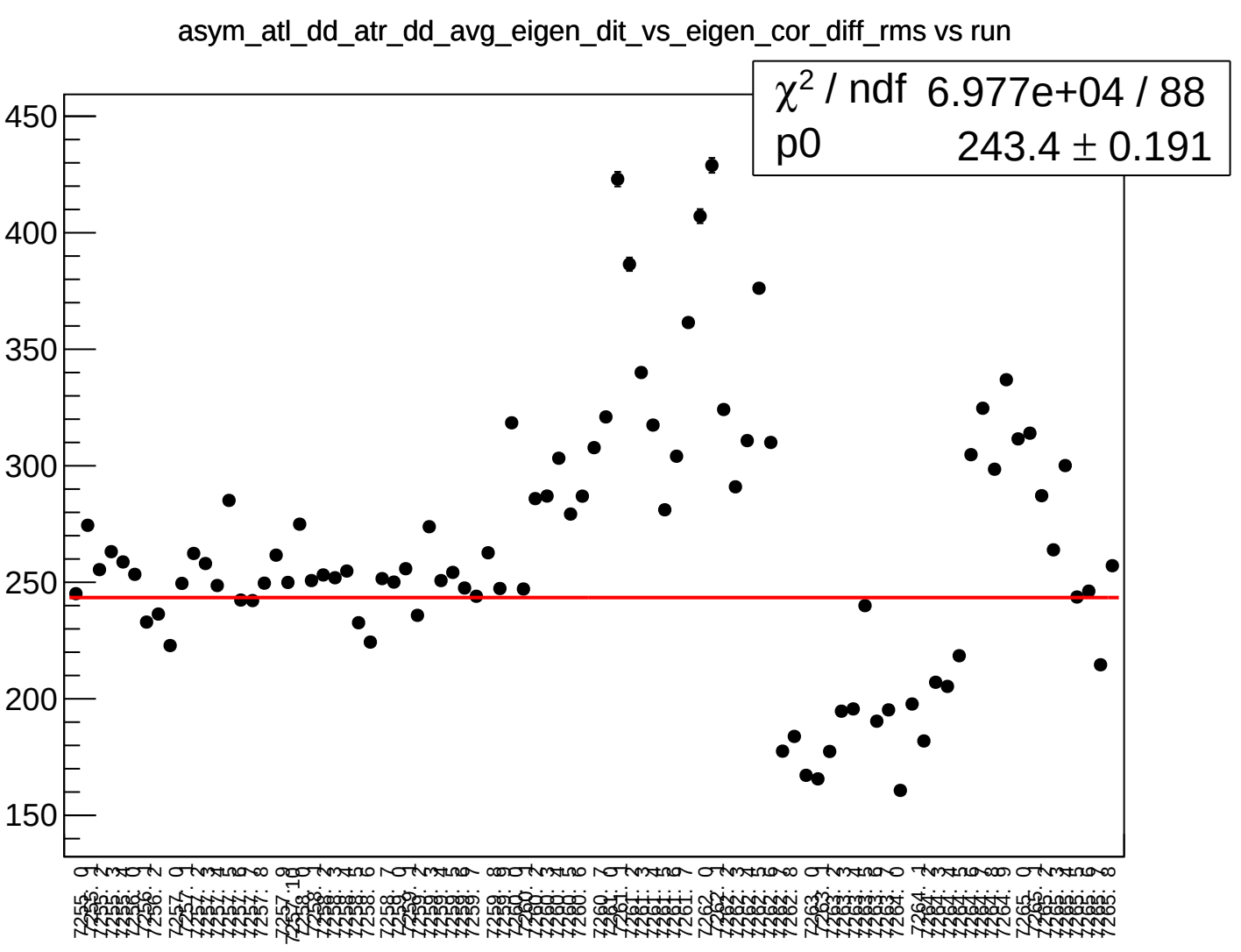

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5574 / 88
p0 0.01021 ± 7.853e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

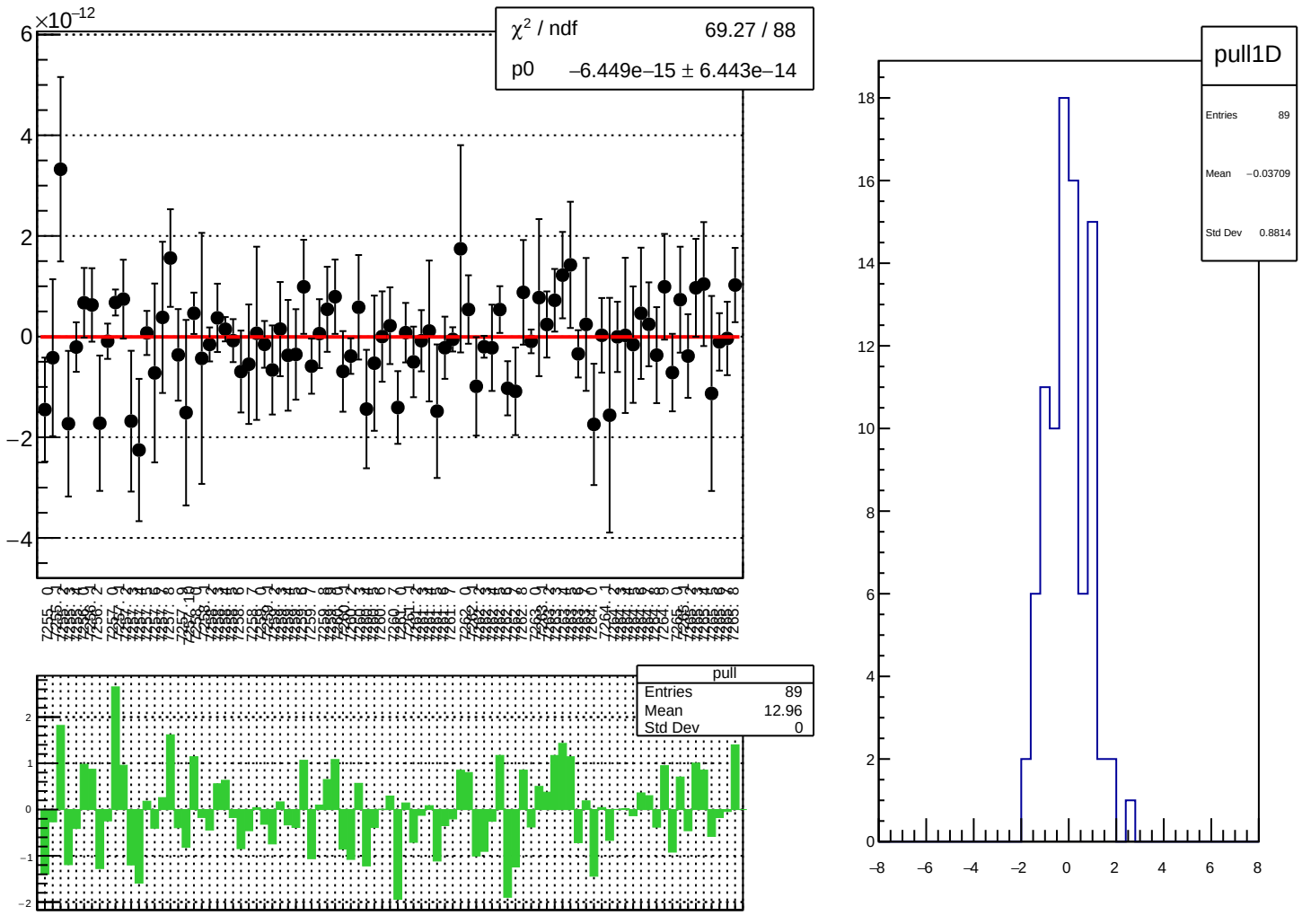

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.71 / 88
p0 0.3754 ± 0.2701
pull
Entries 89
Mean 82.6
Std Dev 25.06
pull1D
Entries 89
Mean −0.01356
Std Dev 1.031

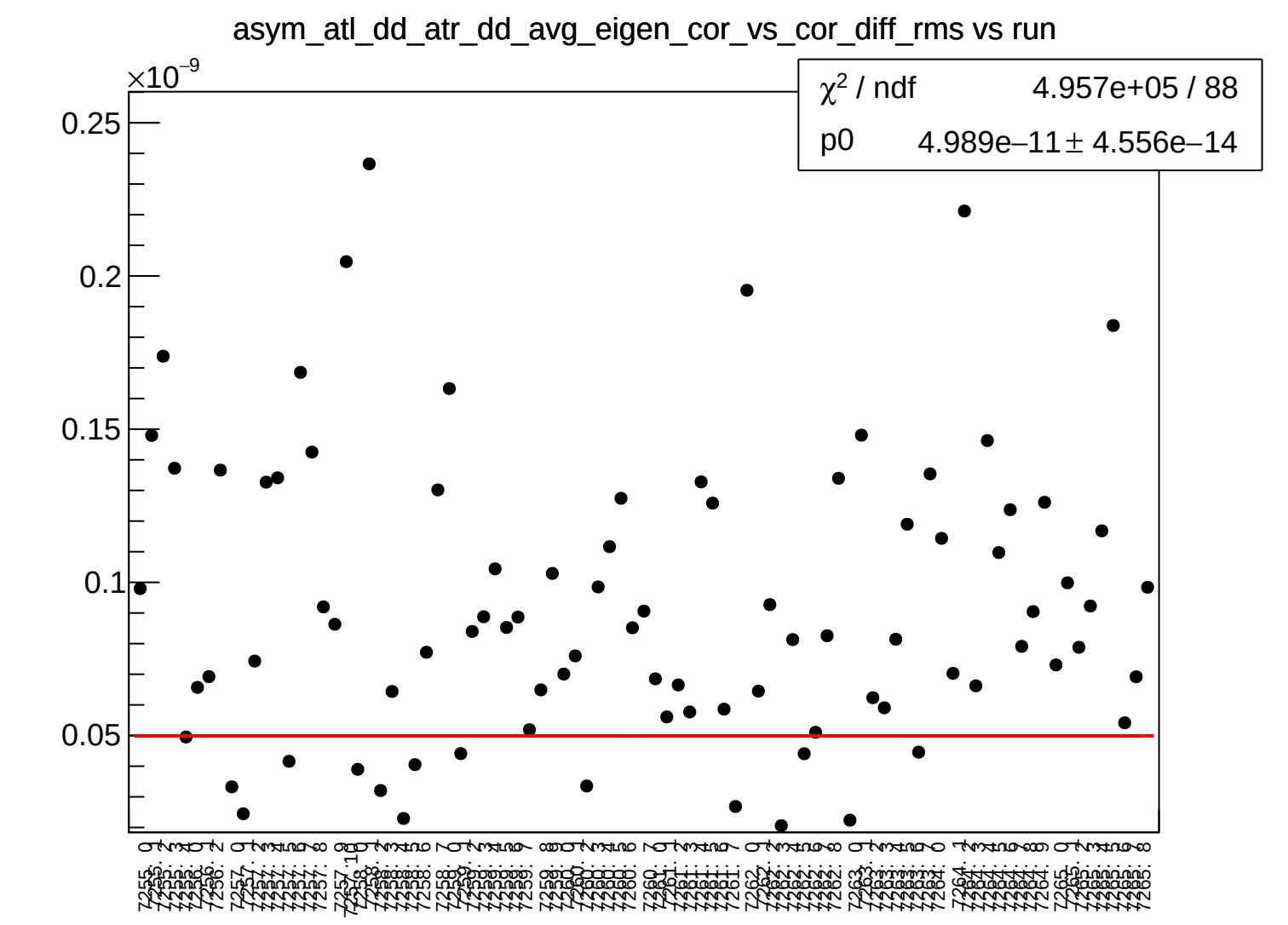

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.977e+04 / 88
p0 243.4 ± 0.191
450
400
350
300
250
200
150

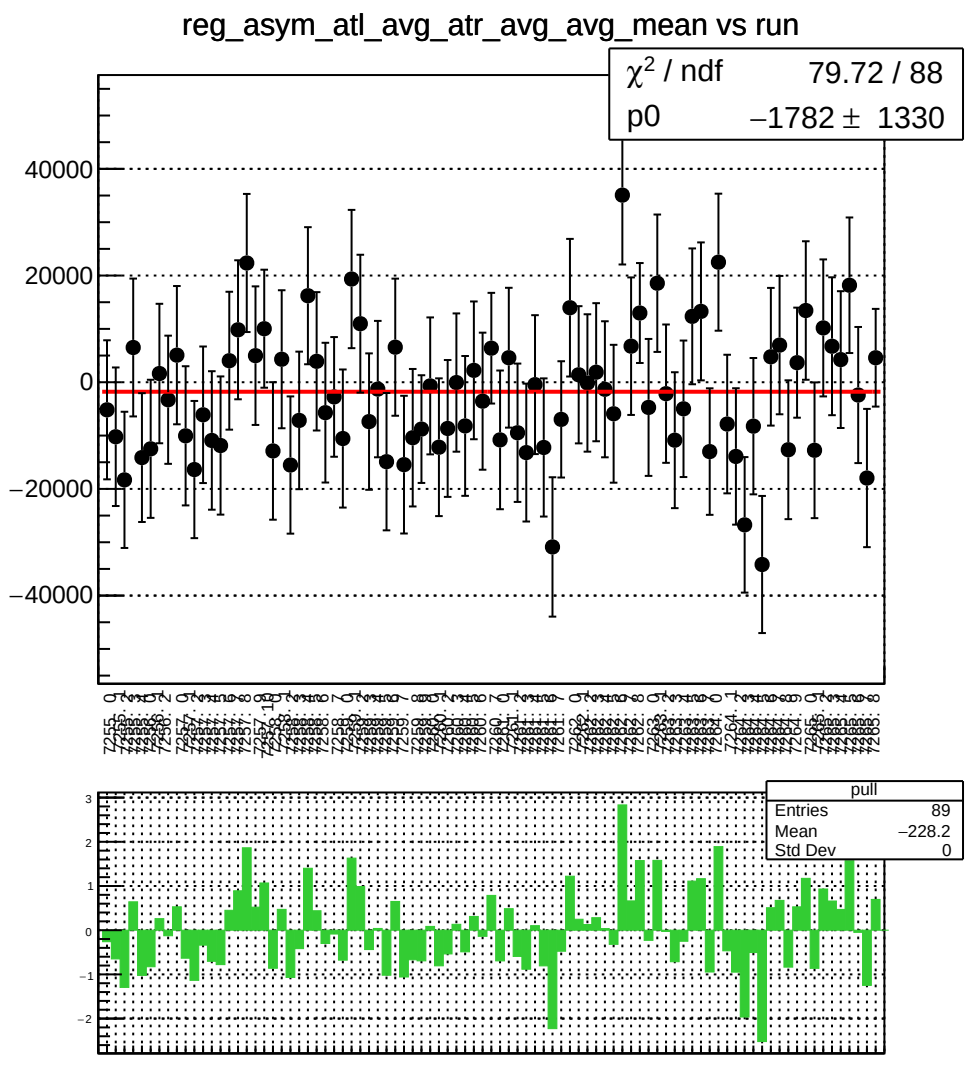

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.71 / 88
p0 0.3754 ± 0.2701
pull
Entries 89
Mean 82.6
Std Dev 25.06

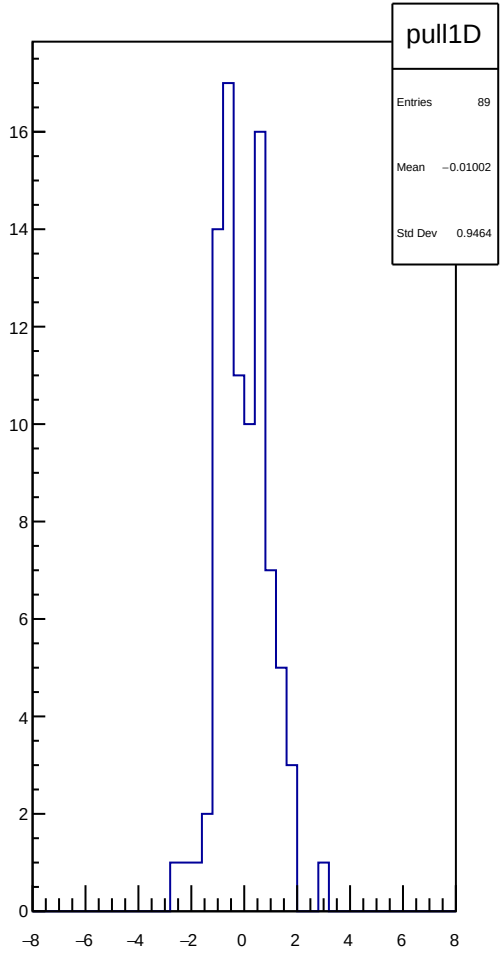

pull1D
Entries 89
Mean −0.01356
Std Dev 1.031

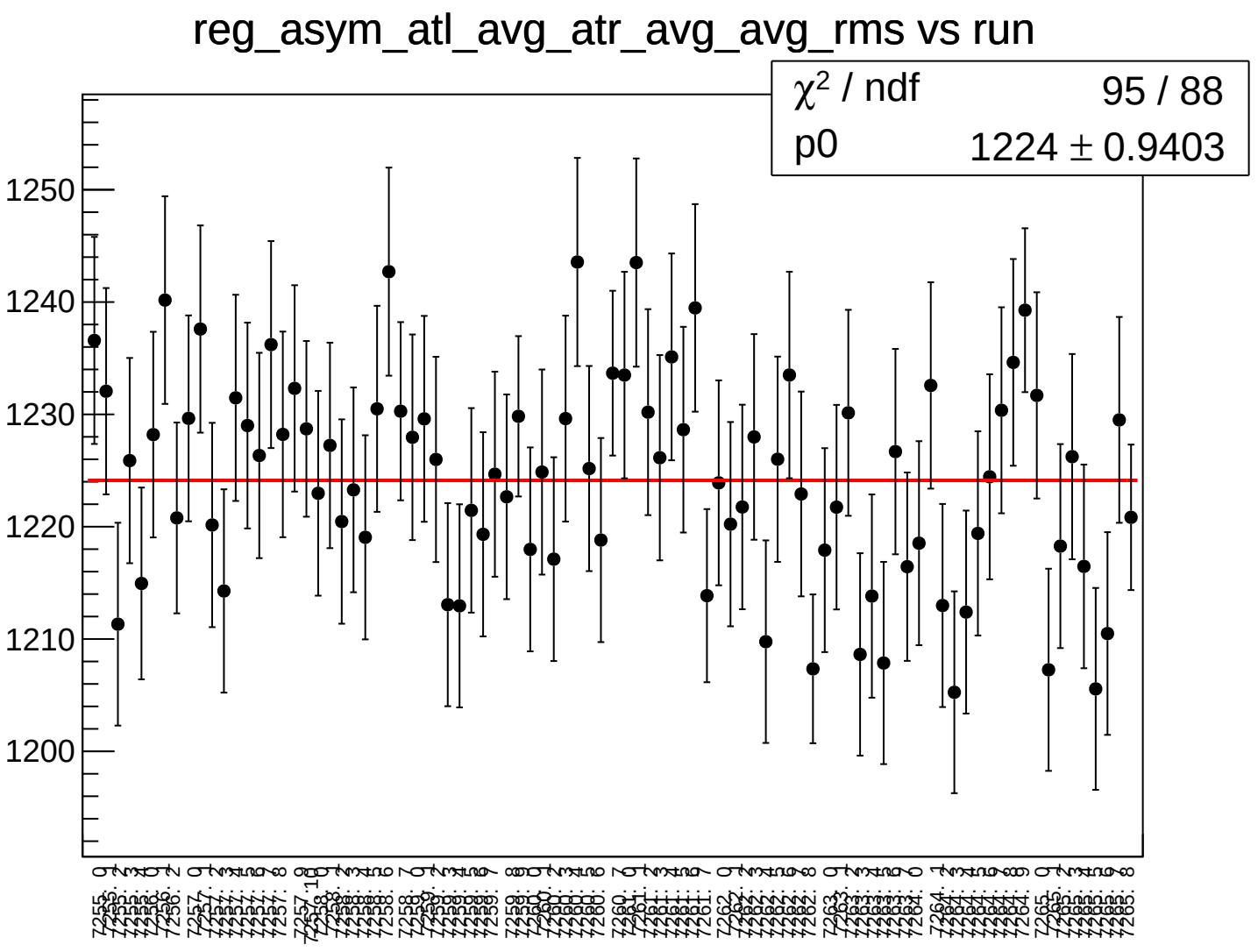

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.977e+04 / 88
p0 243.4 ± 0.191
450
400
350
300
250
200
150

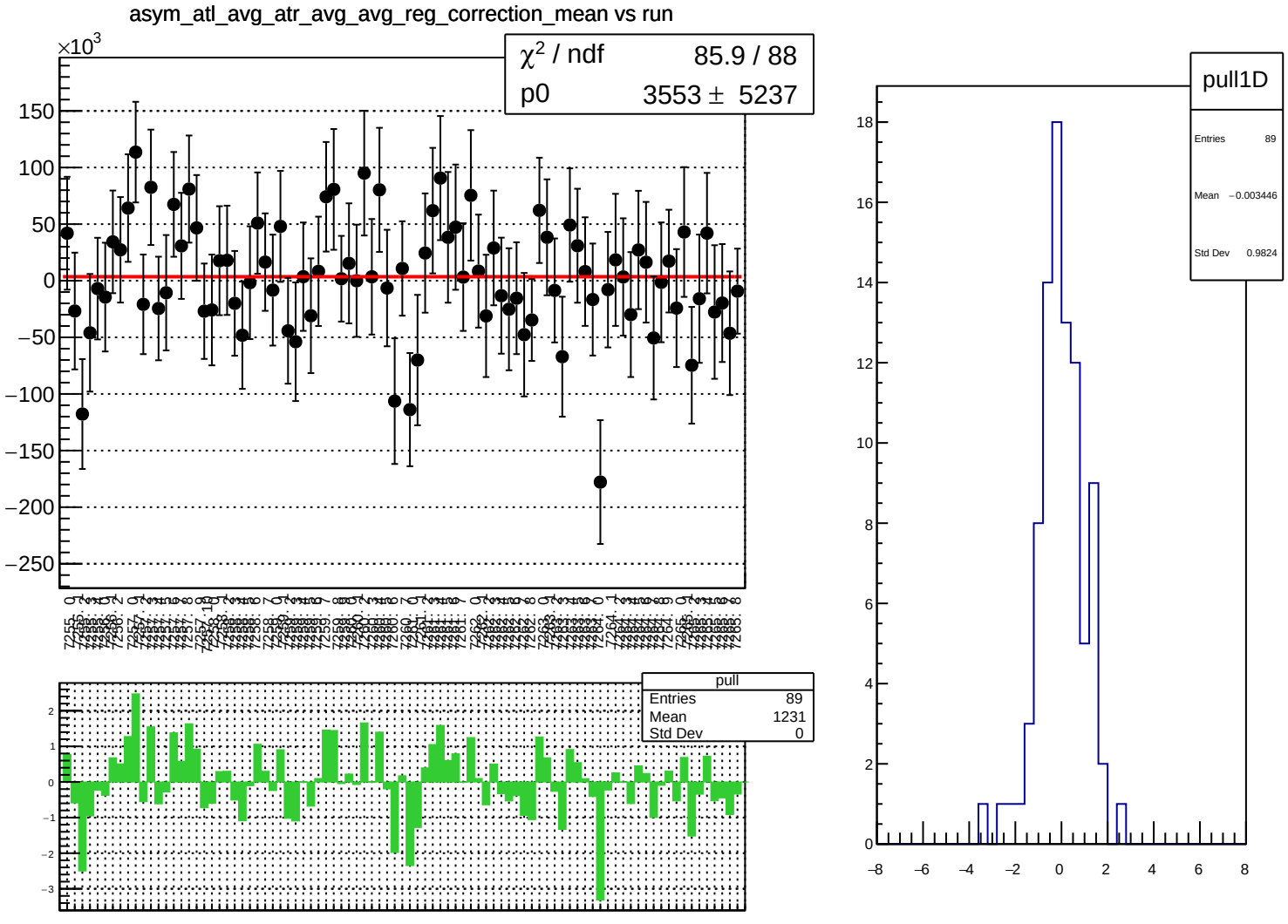

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.27 / 88
p0 −6.449e−15 ± 6.443e−14
pull
Entries 89
Mean 12.96
Std Dev 0
pull1D
Entries 89
Mean −0.03709
Std Dev 0.8814

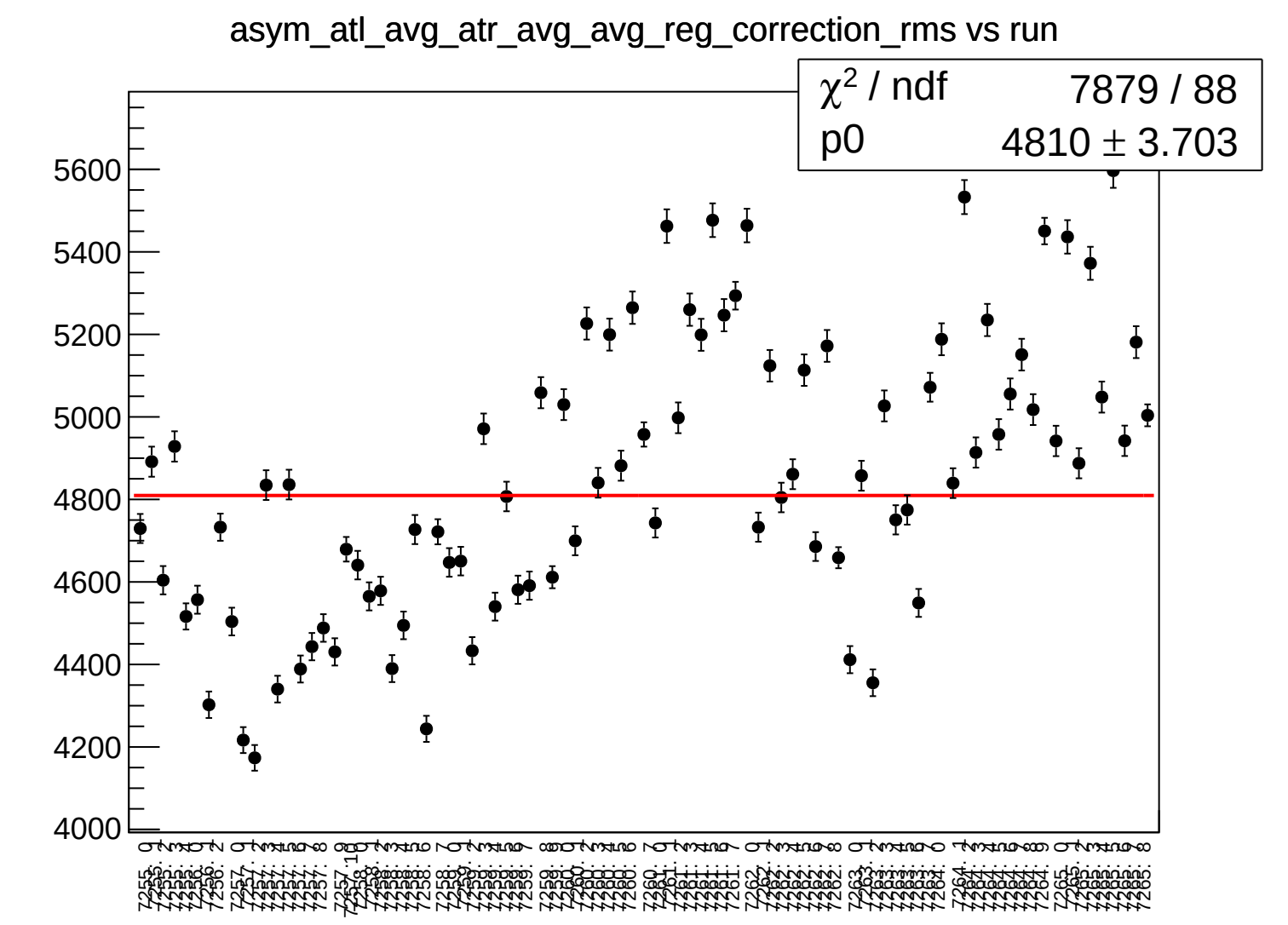

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.957e+05 / 88
p0 4.989e−11 ± 4.556e−14
0.25
0.2
0.15
0.1
0.05

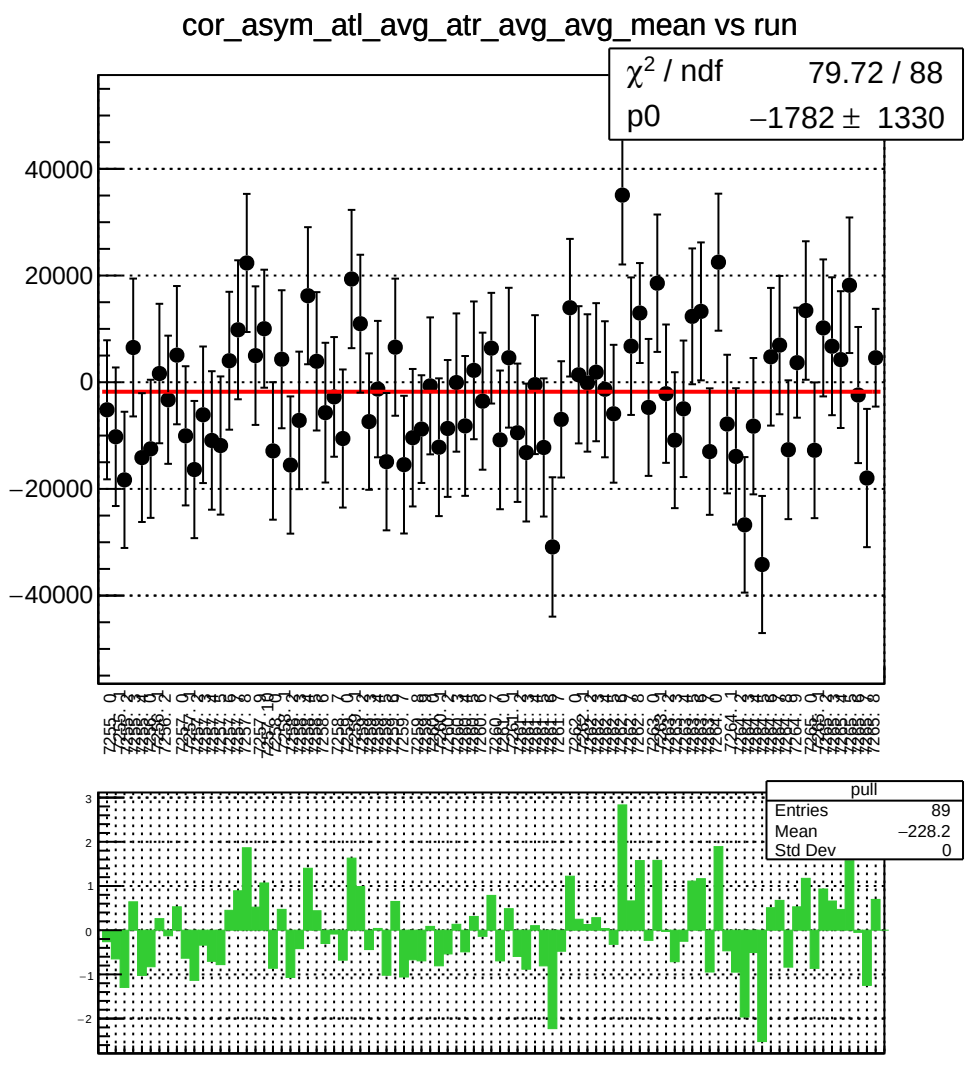

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 79.72 / 88
p0 −1782 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −228.2
Std Dev 0
3
2
1
0
−1
−2

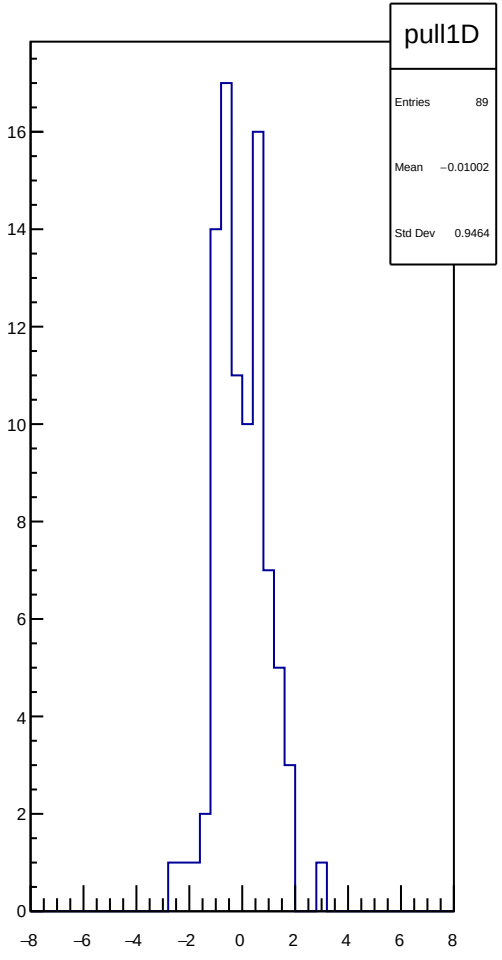

pull1D
Entries 89
Mean −0.01002
Std Dev 0.9464
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

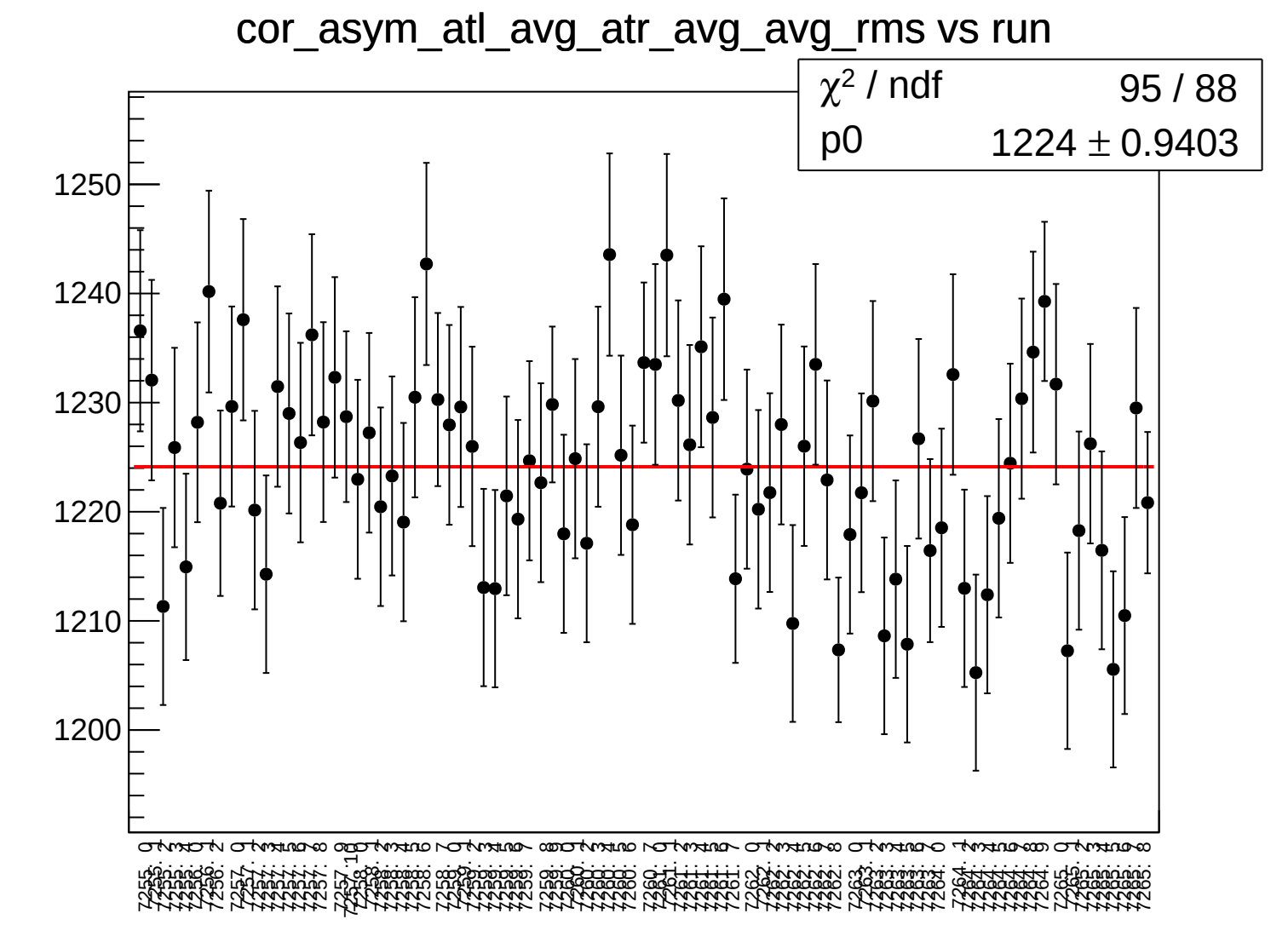

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 95 / 88
p0 1224 ± 0.9403
1250
1240
1230
1220
1210
1200

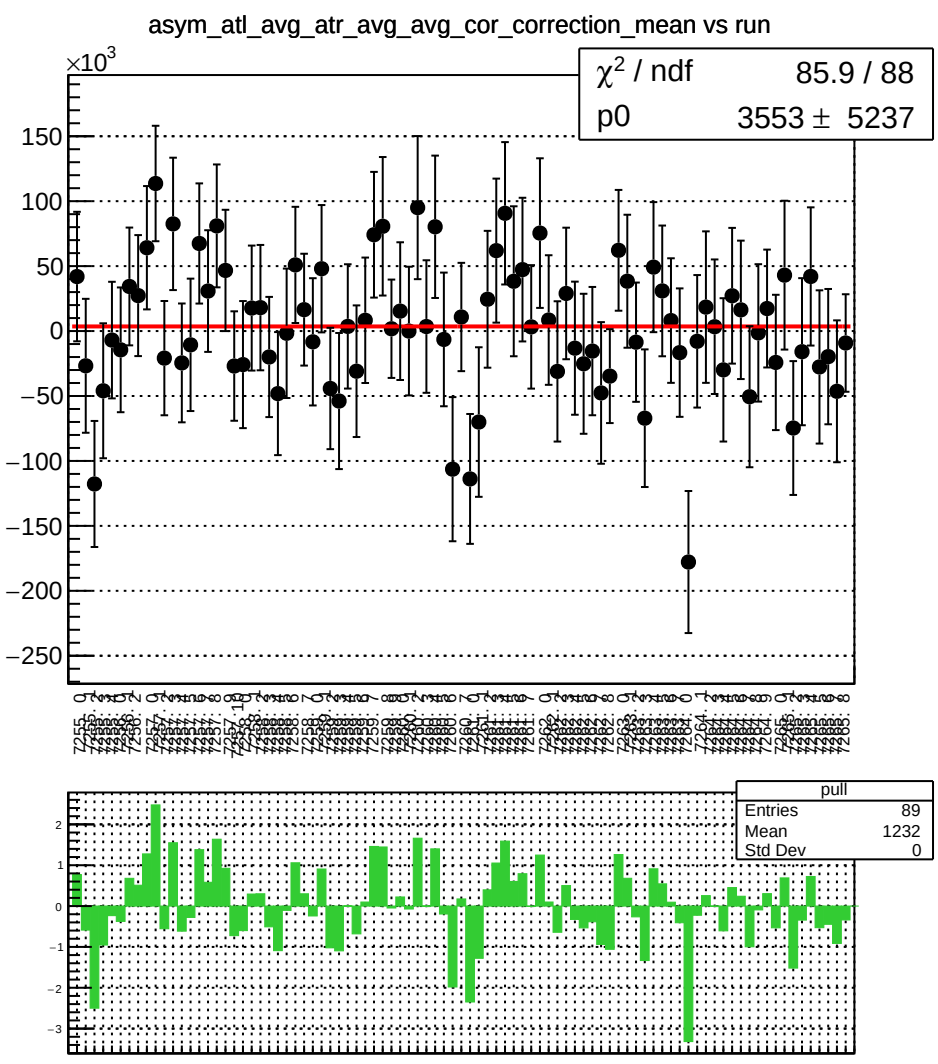

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 85.9 / 88
p0 3553 ± 5237
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean 1231
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.003446
Std Dev 0.9824
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

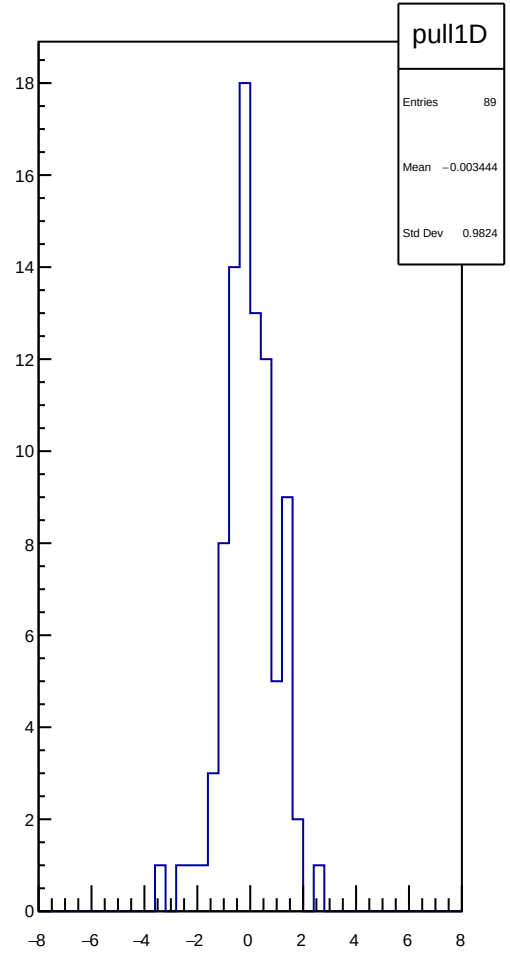

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 7879 / 88
p0 4810 ± 3.703
5600
5400
5200
5000
4800
4600
4400
4200
4000

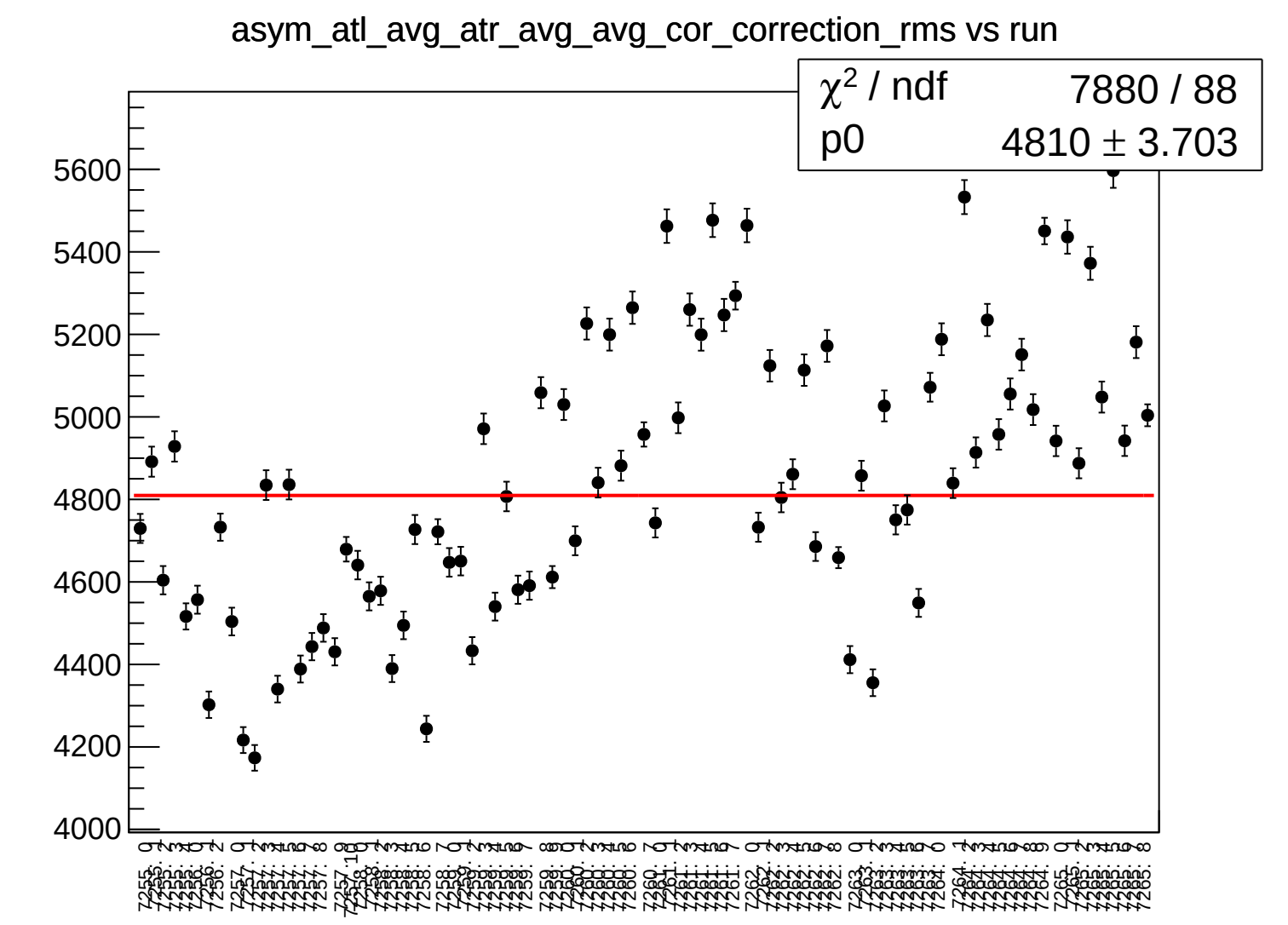

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 79.72 / 88
p0 −1782 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −228.2
Std Dev 0
3
2
1
0
−1
−2

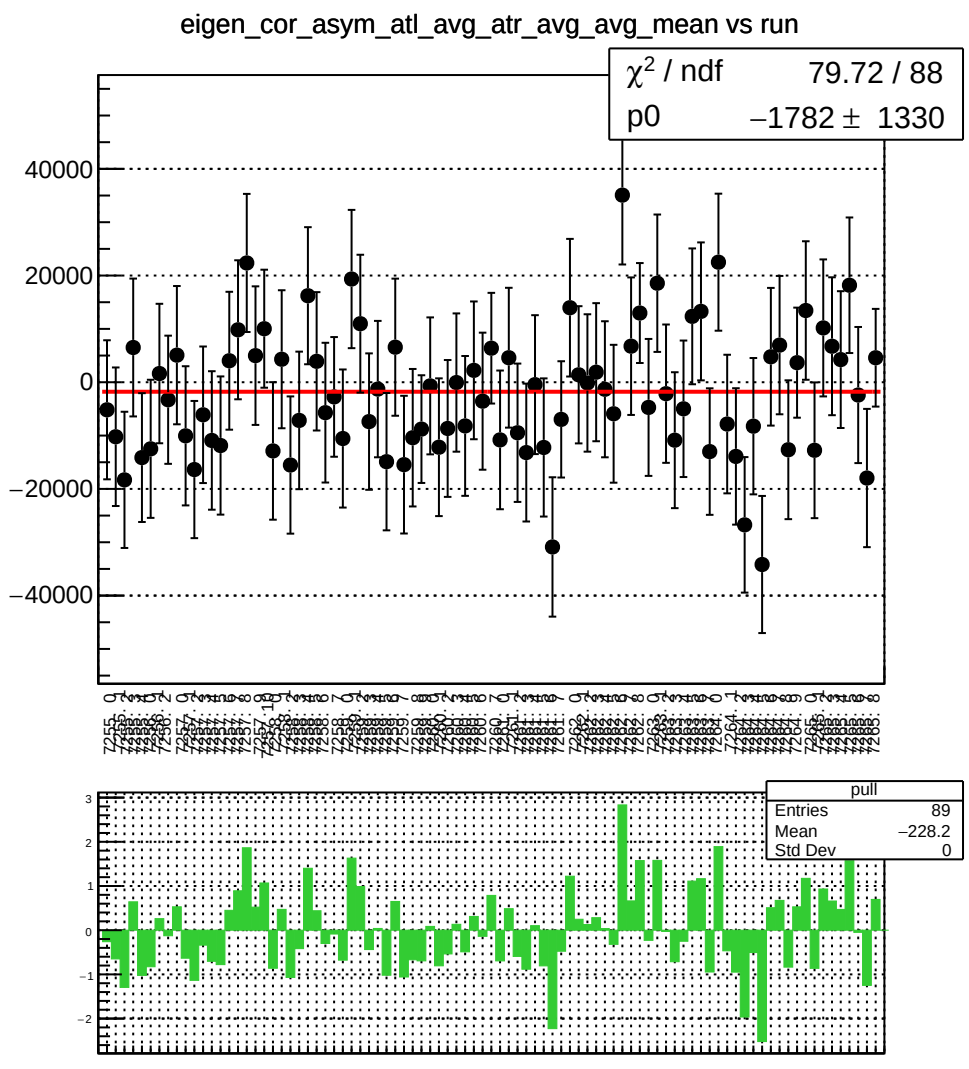

pull1D
Entries 89
Mean −0.01002
Std Dev 0.9464
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

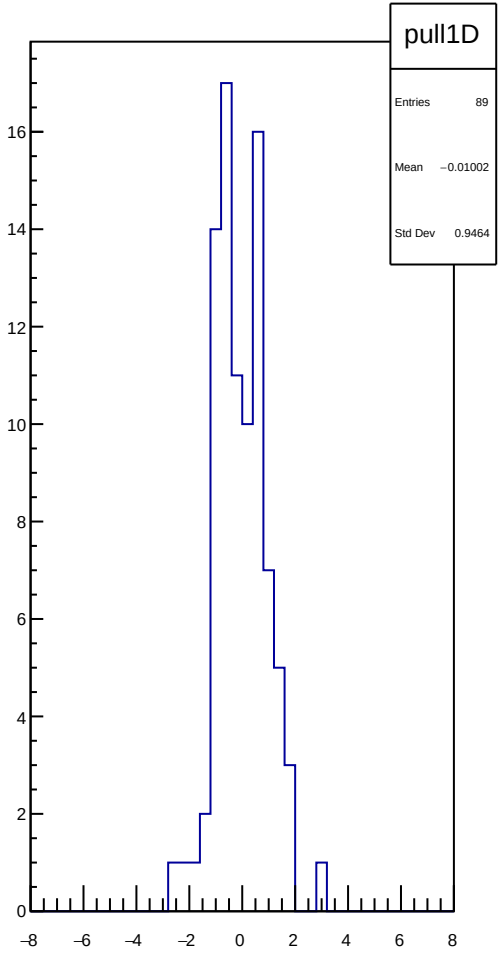

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 95 / 88
p0 1224 ± 0.9403
1250
1240
1230
1220
1210
1200

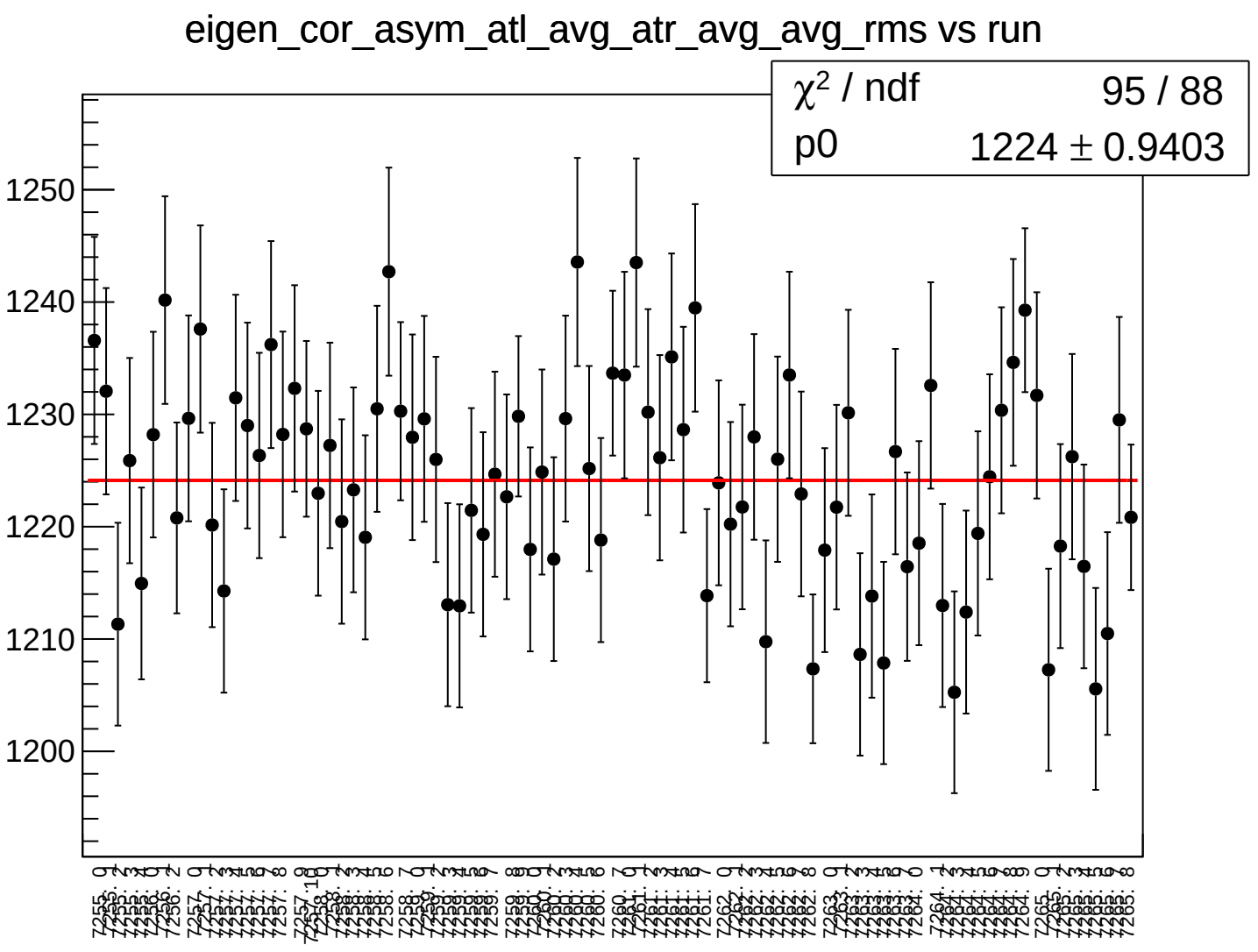

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.9 / 88
p0 3553 ± 5237
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean 1232
Std Dev 0
2
1
0
−1
−2
−3

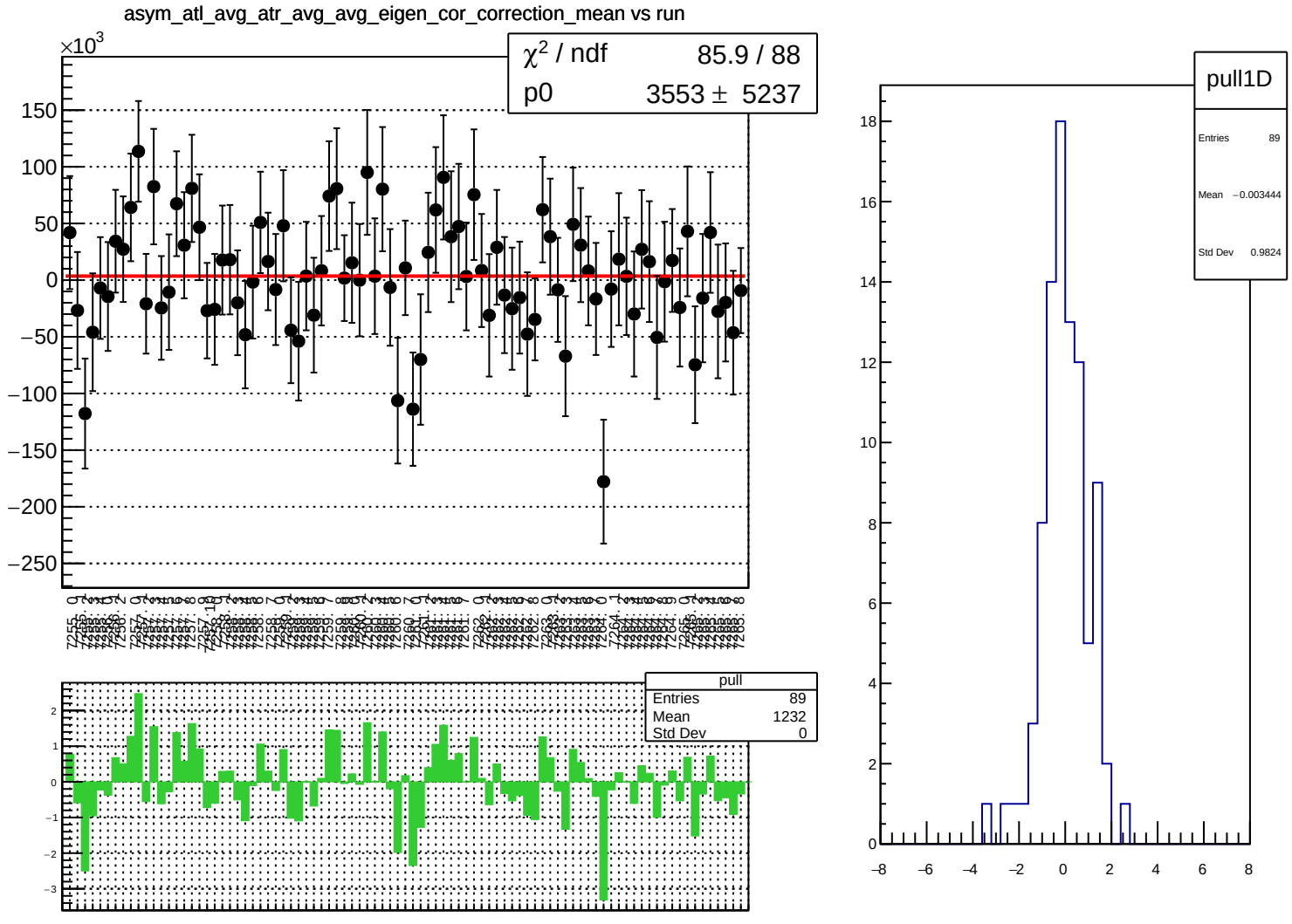

pull1D
Entries 89
Mean −0.003444
Std Dev 0.9824
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

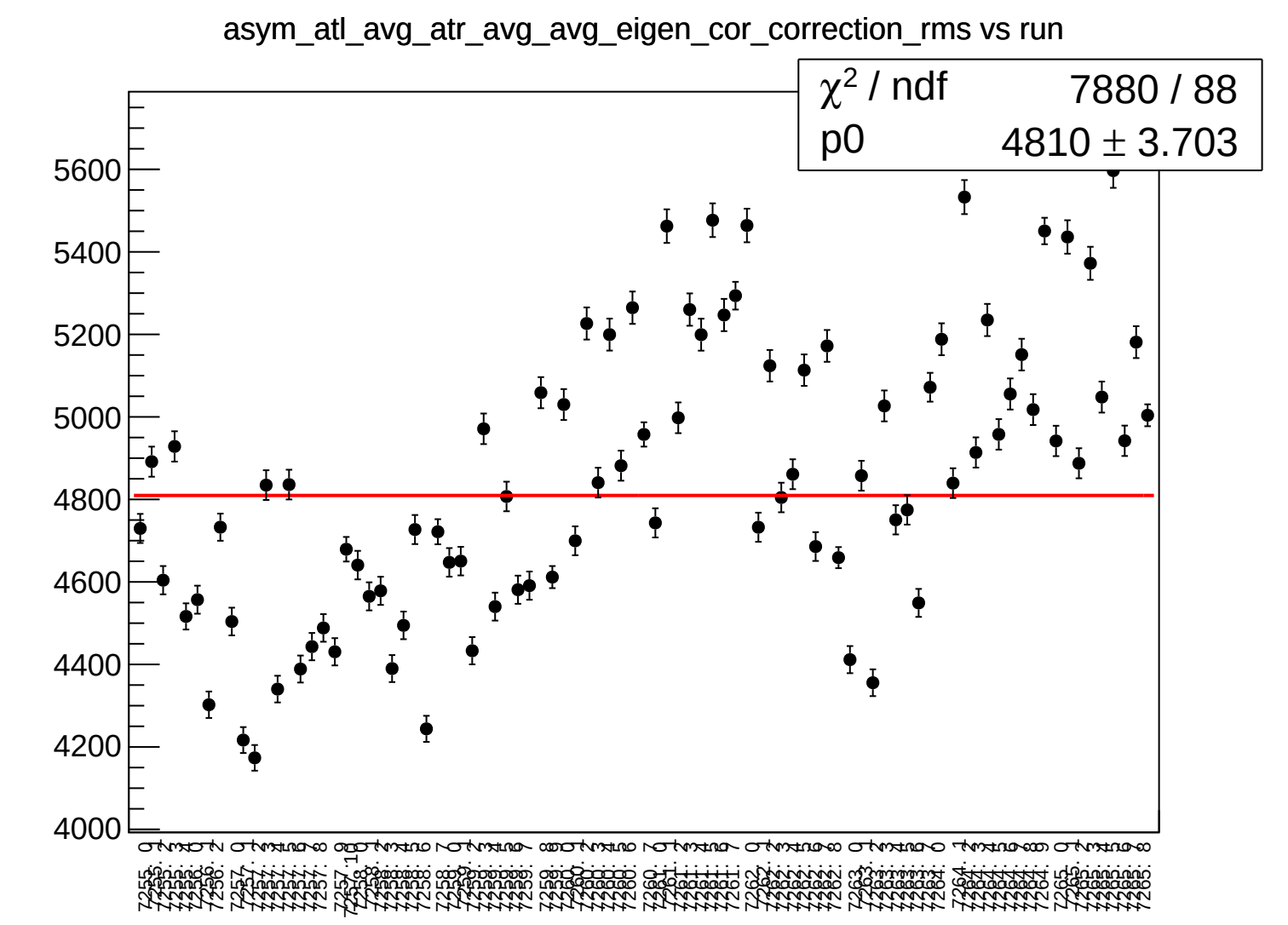

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 7880 / 88
p0 4810 ± 3.703
5600
5400
5200
5000
4800
4600
4400
4200
4000

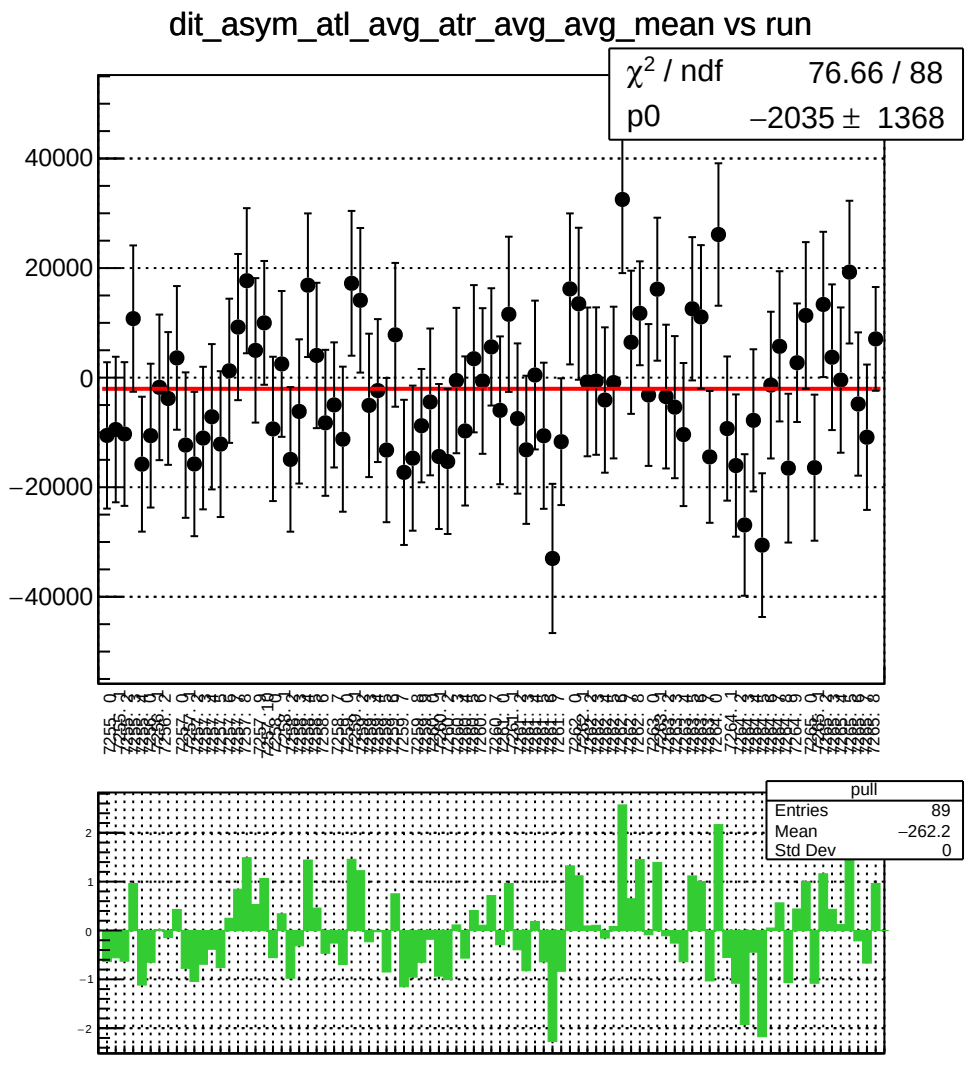

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 79.72 / 88
p0 −1782 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −228.2
Std Dev 0
3
2
1
0
−1
−2

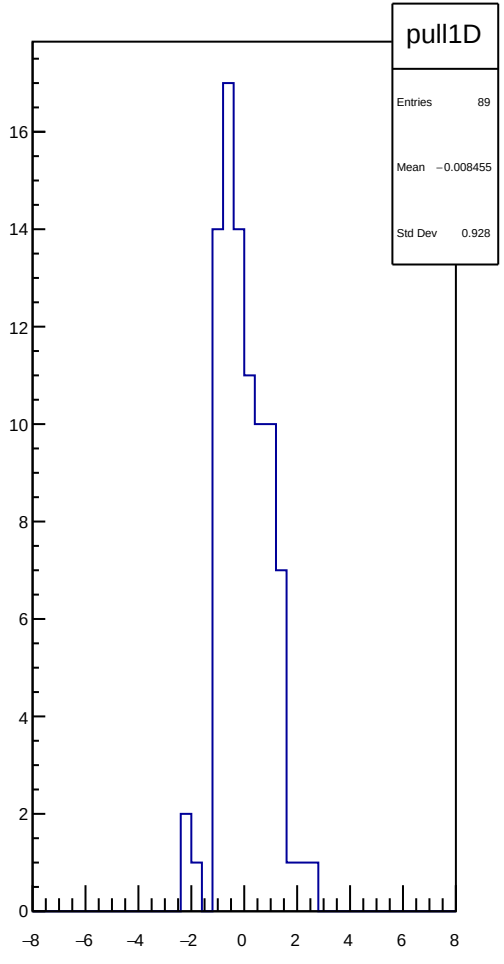

pull1D
Entries 89
Mean −0.01002
Std Dev 0.9464
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

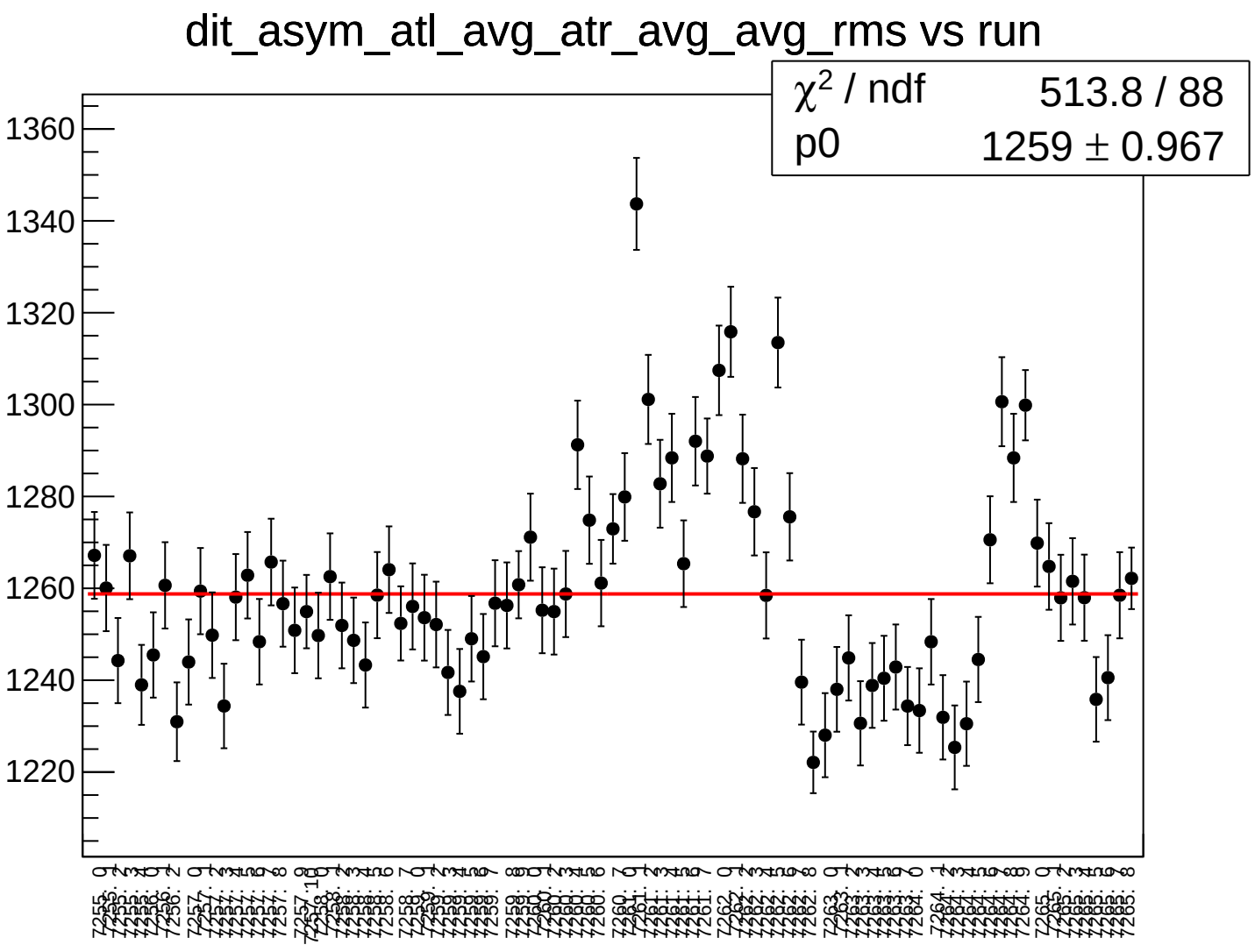

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 95 / 88
p0 1224 ± 0.9403
1250
1240
1230
1220
1210
1200

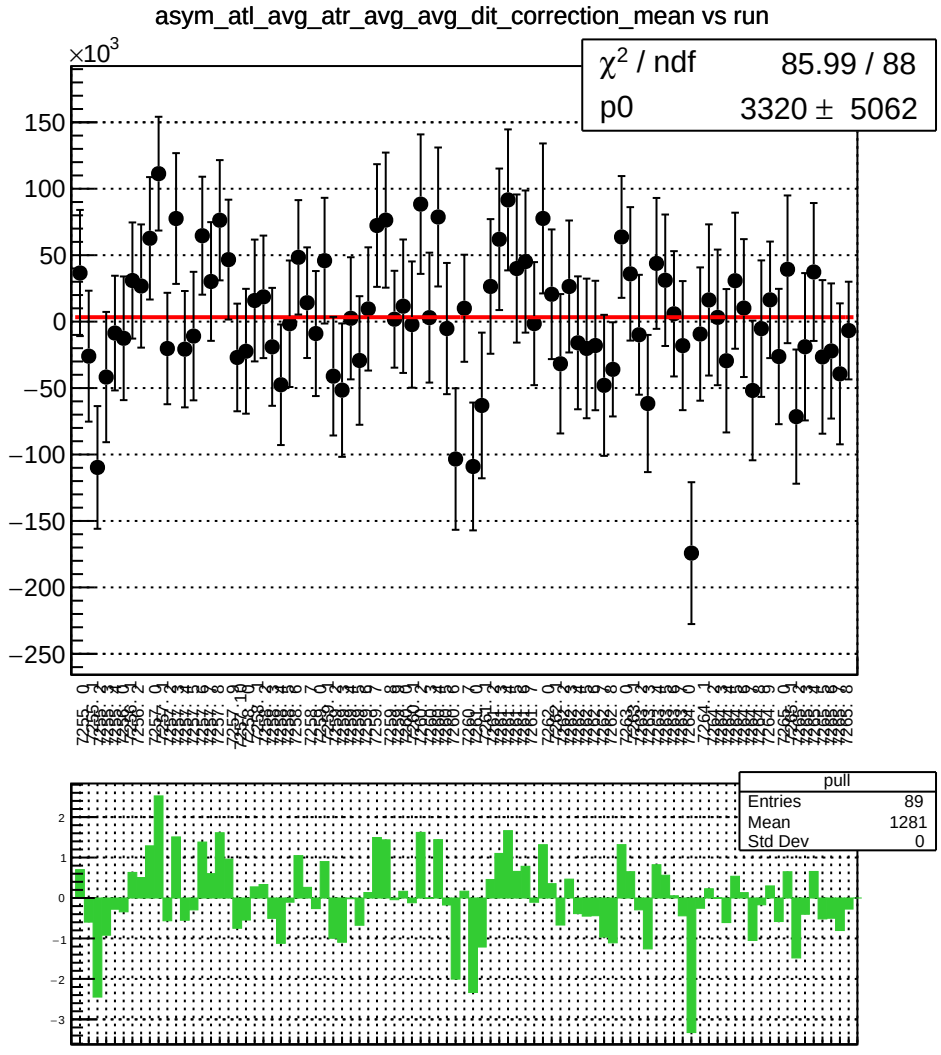

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.9 / 88
p0 3553 ± 5237
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean 1232
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.003444
Std Dev 0.9824
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

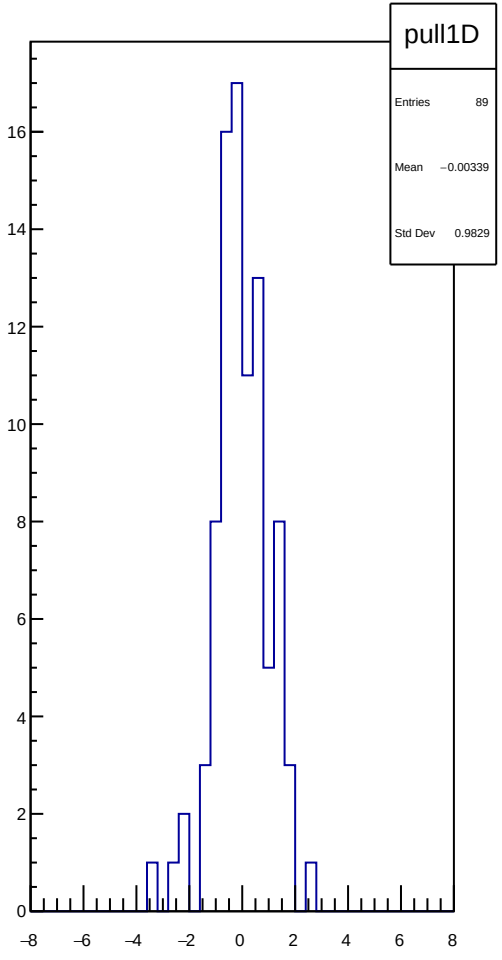

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 7880 / 88
p0 4810 ± 3.703
5600
5400
5200
5000
4800
4600
4400
4200
4000

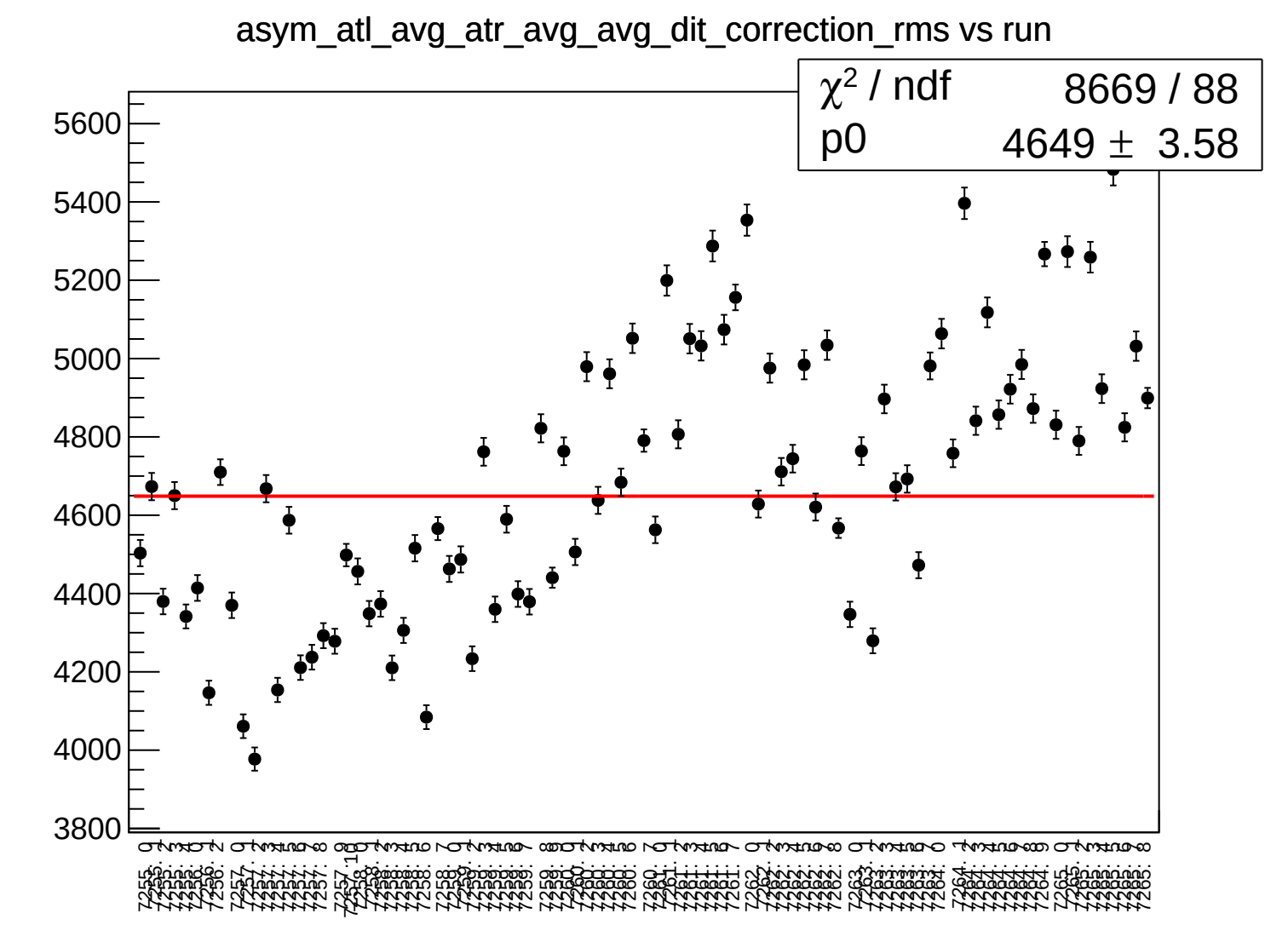

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 76.66 / 88
p0 −2035 ± 1368
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −262.2
Std Dev 0
2
1
0
−1
−2

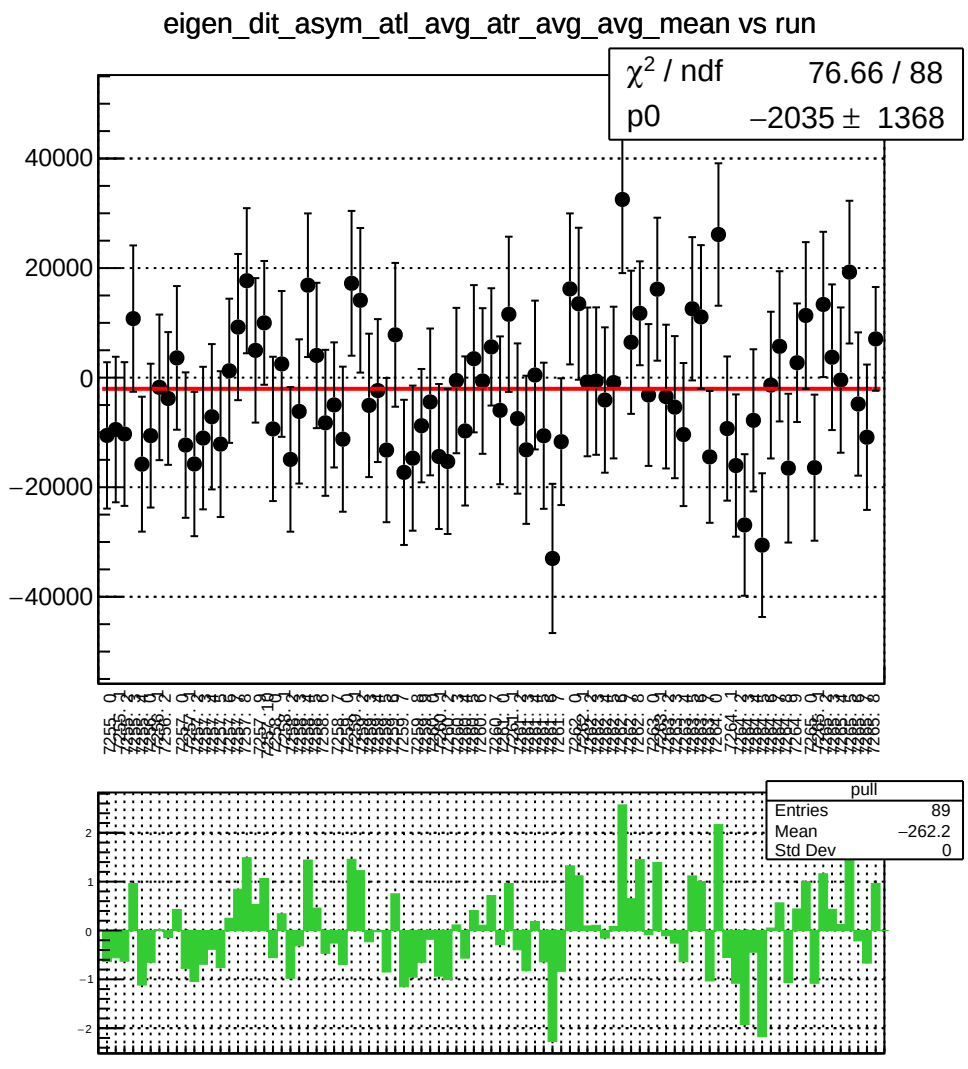

pull1D
Entries 89
Mean −0.008455
Std Dev 0.928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

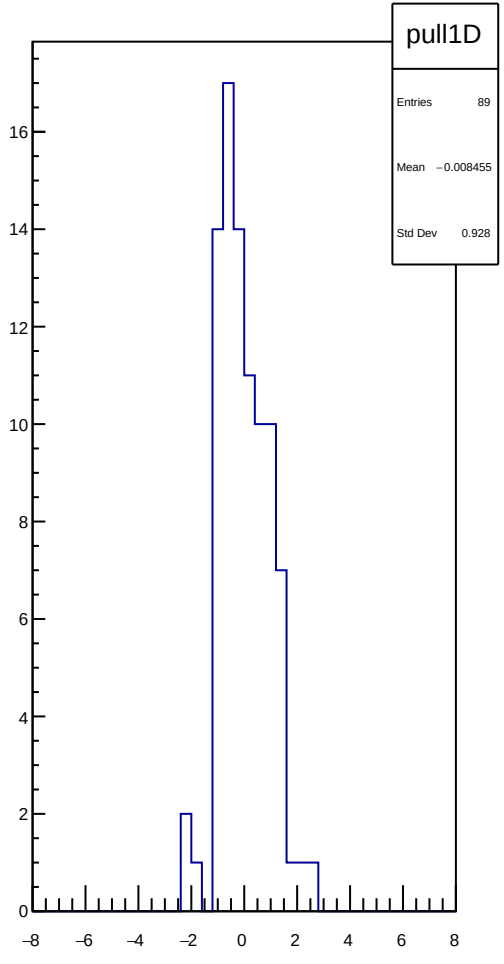

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 513.8 / 88
p0 1259 ± 0.967
1360
1340
1320
1300
1280
1260
1240
1220

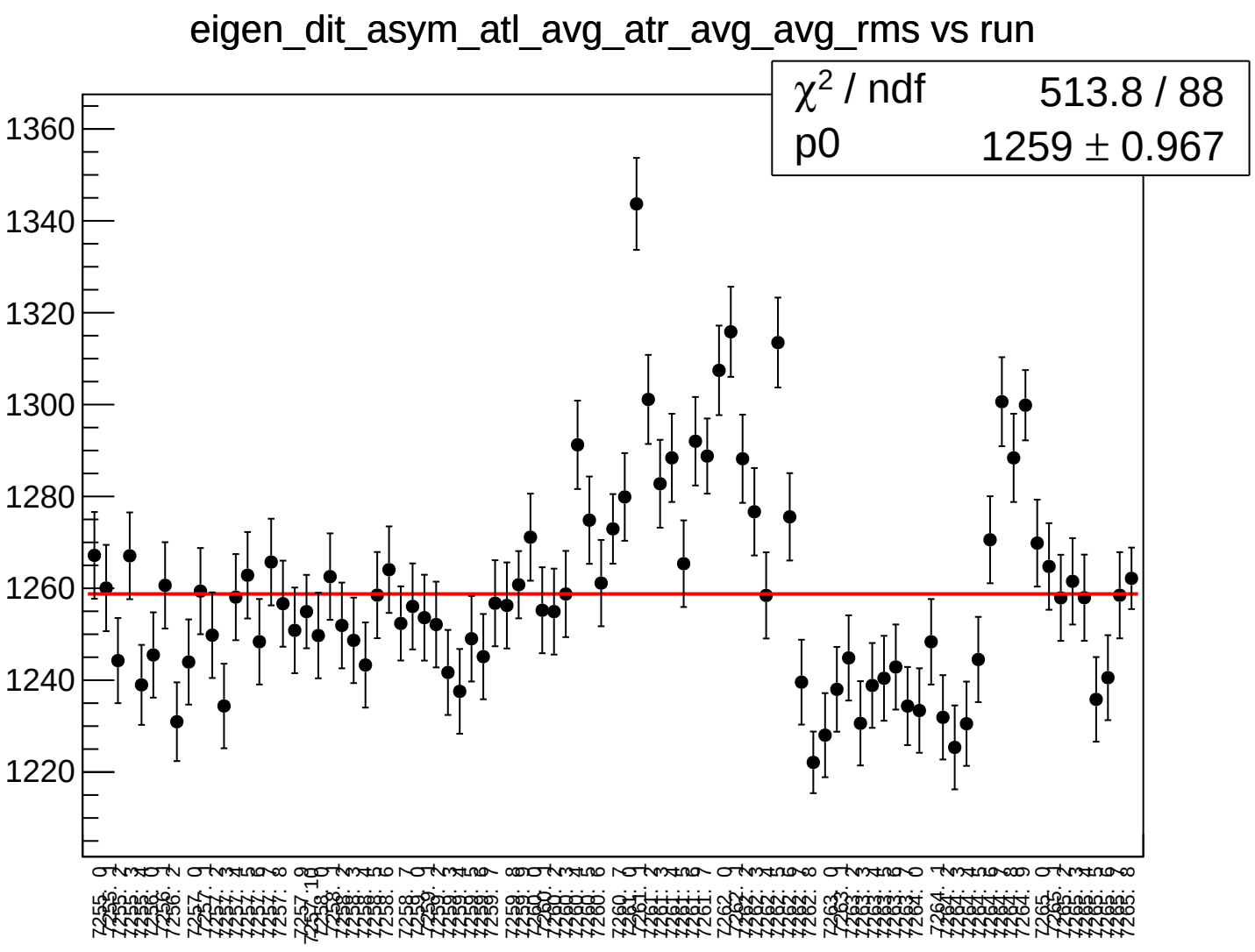

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 85.99 / 88
p0 3320 ± 5062
pull
Entries 89
Mean 1281
Std Dev 0

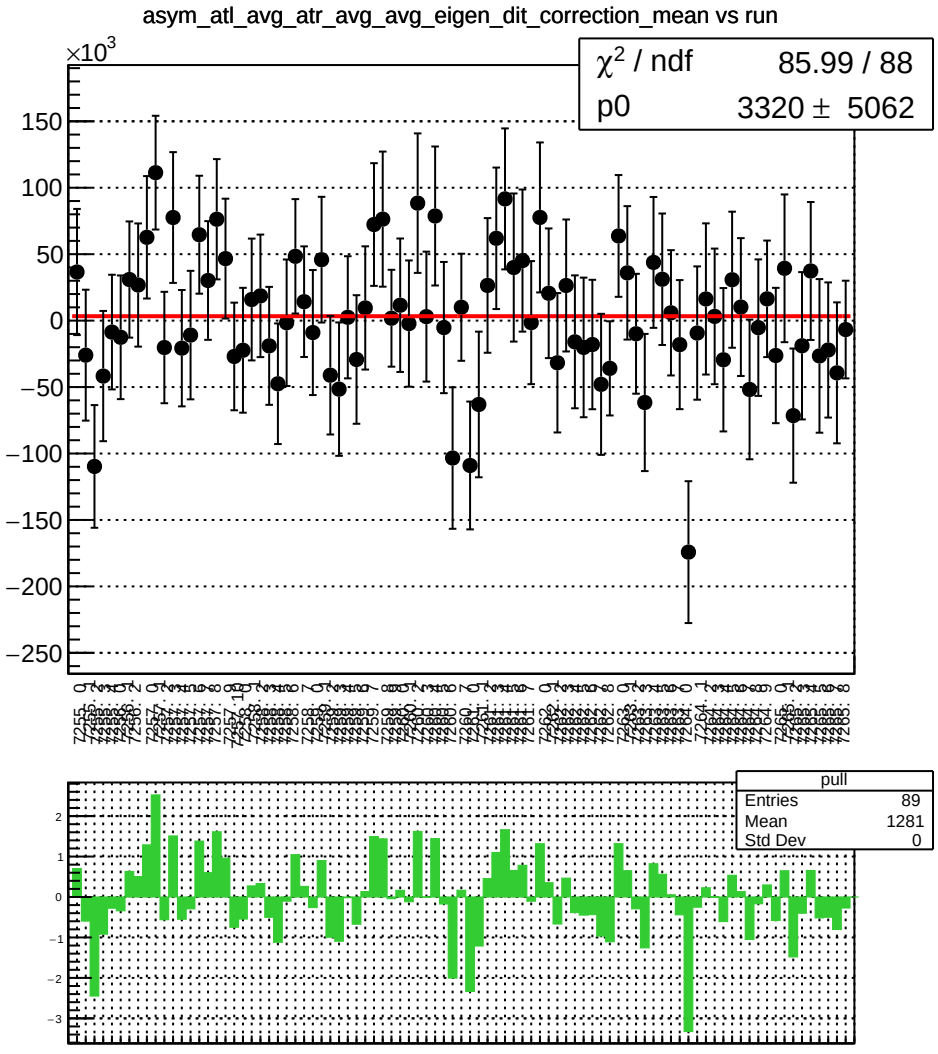

pull1D
Entries 89
Mean −0.00339
Std Dev 0.9829

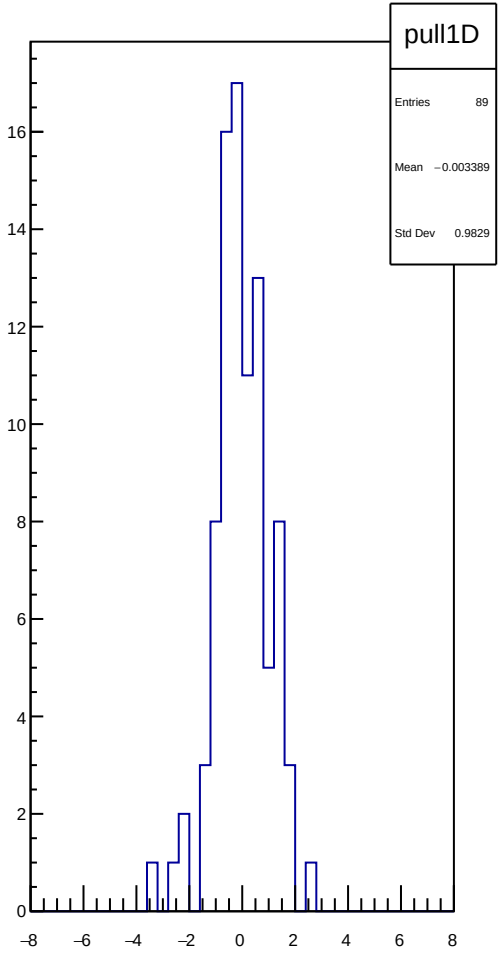

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 8669 / 88
p0 4649 ± 3.58
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

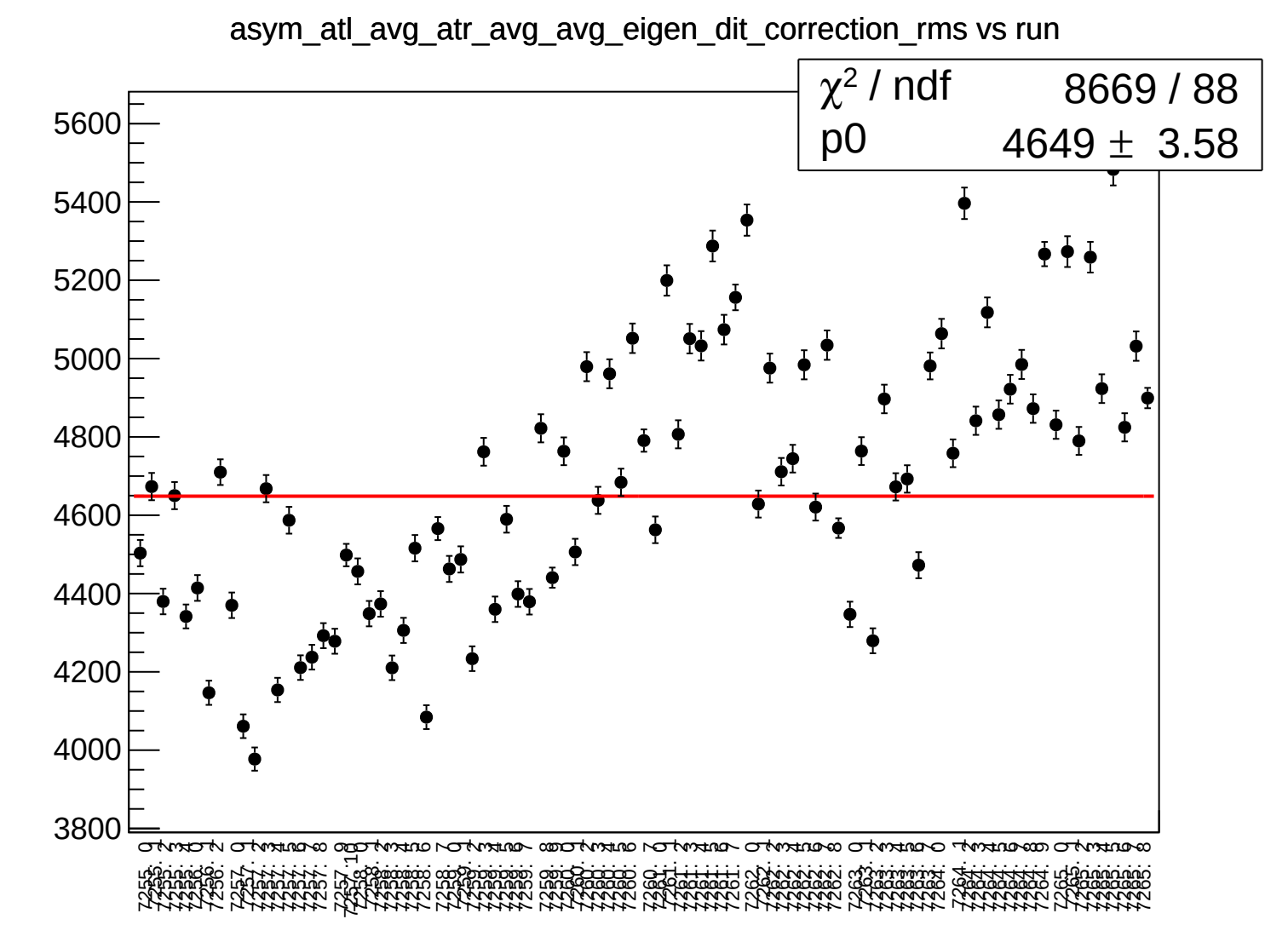

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 76.66 / 88
p0 −2035 ± 1368
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −262.2
Std Dev 0
2
1
0
−1
−2

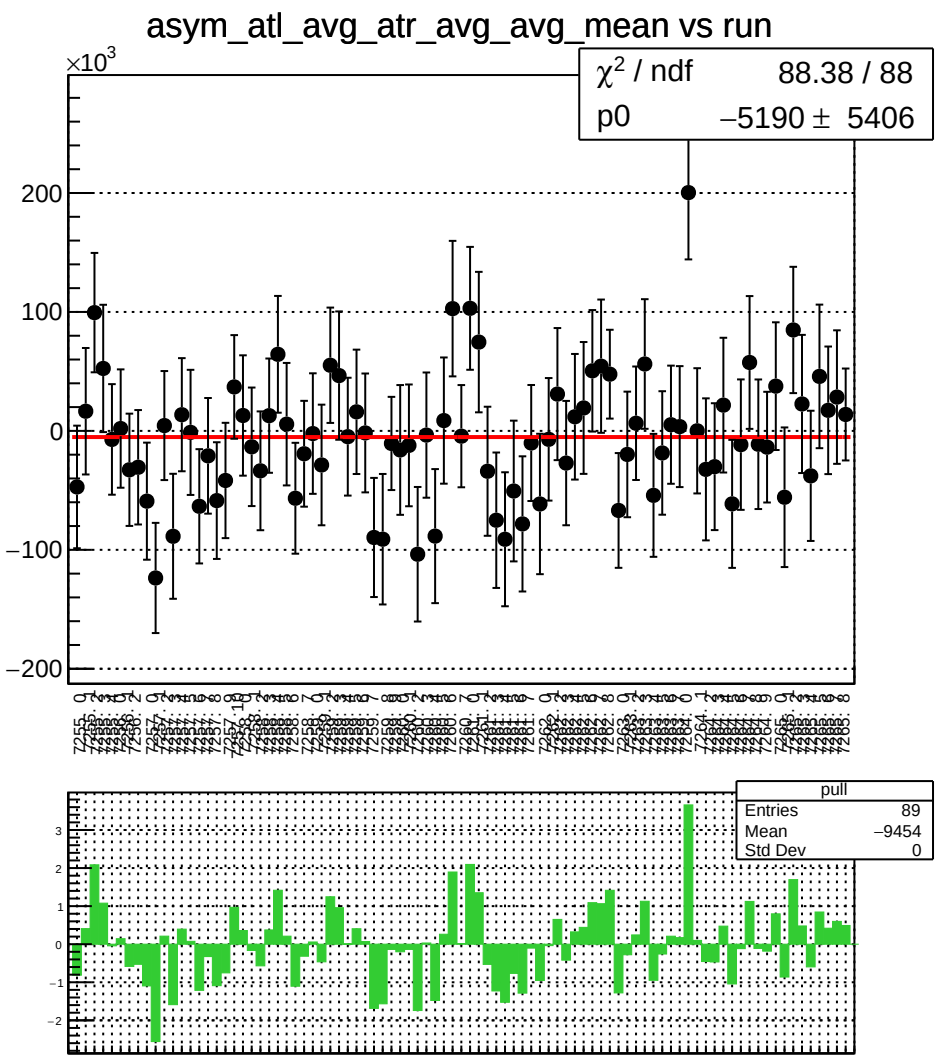

pull1D
Entries 89
Mean −0.008455
Std Dev 0.928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

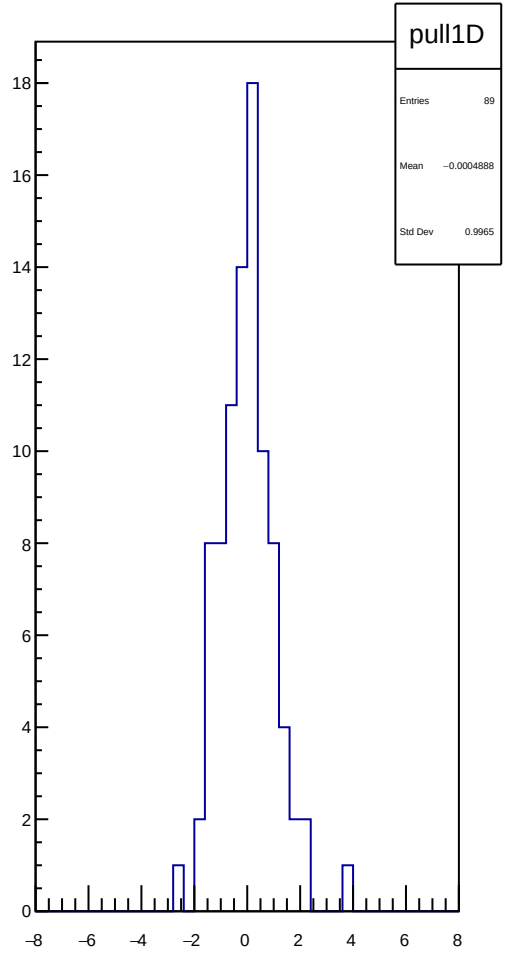

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 513.8 / 88
p0 1259 ± 0.967
1360
1340
1320
1300
1280
1260
1240
1220

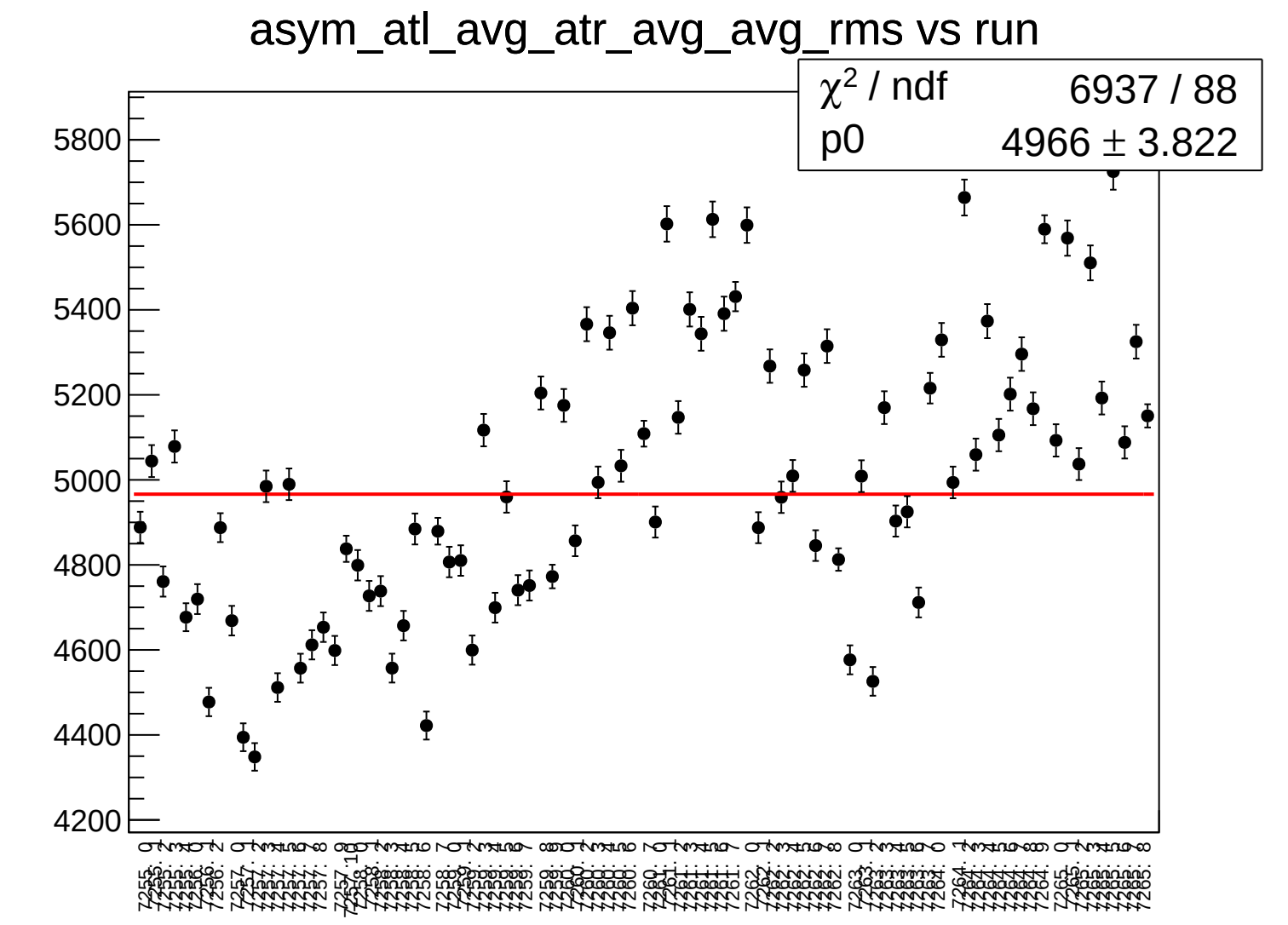

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.99 / 88
p0 3320 ± 5062
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean 1281
Std Dev 0
2
1
0
−1
−2
−3

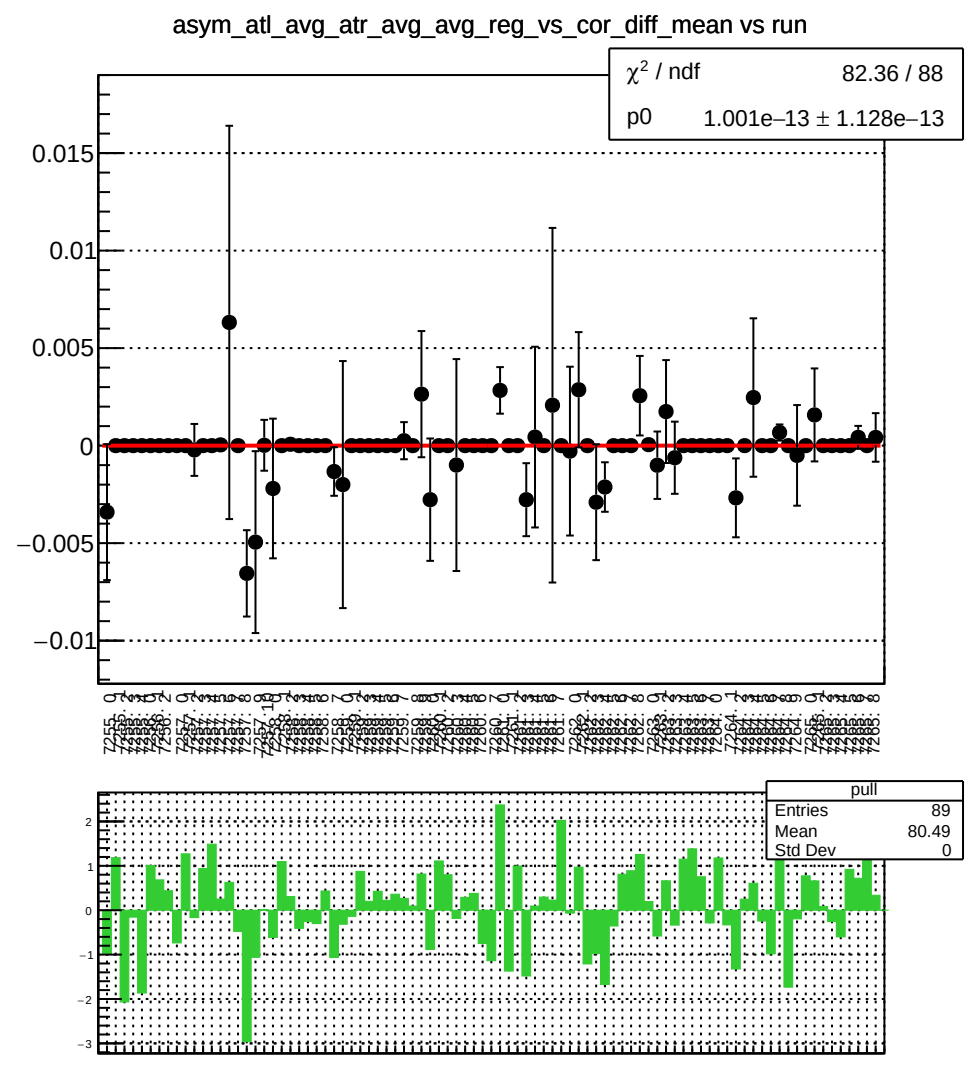

pull1D
Entries 89
Mean −0.003389
Std Dev 0.9829
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

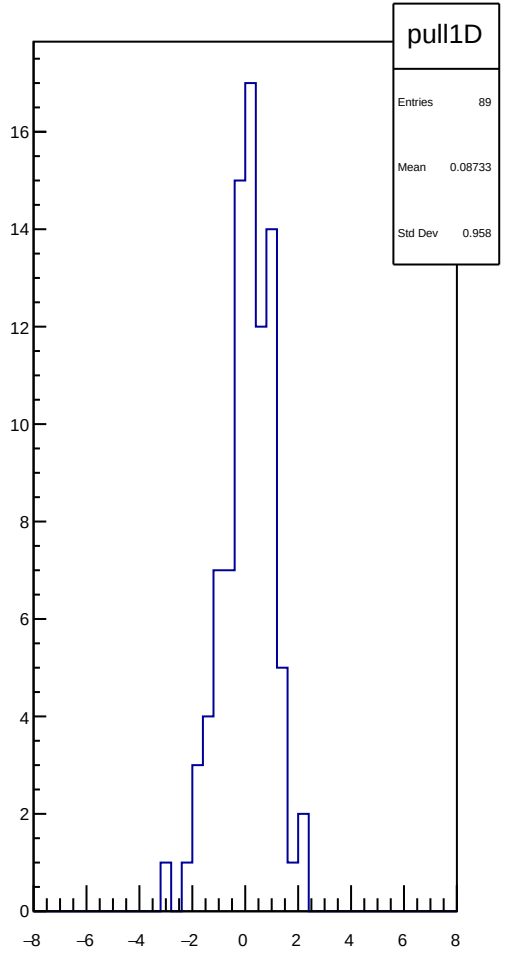

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 8669 / 88
p0 4649 ± 3.58
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

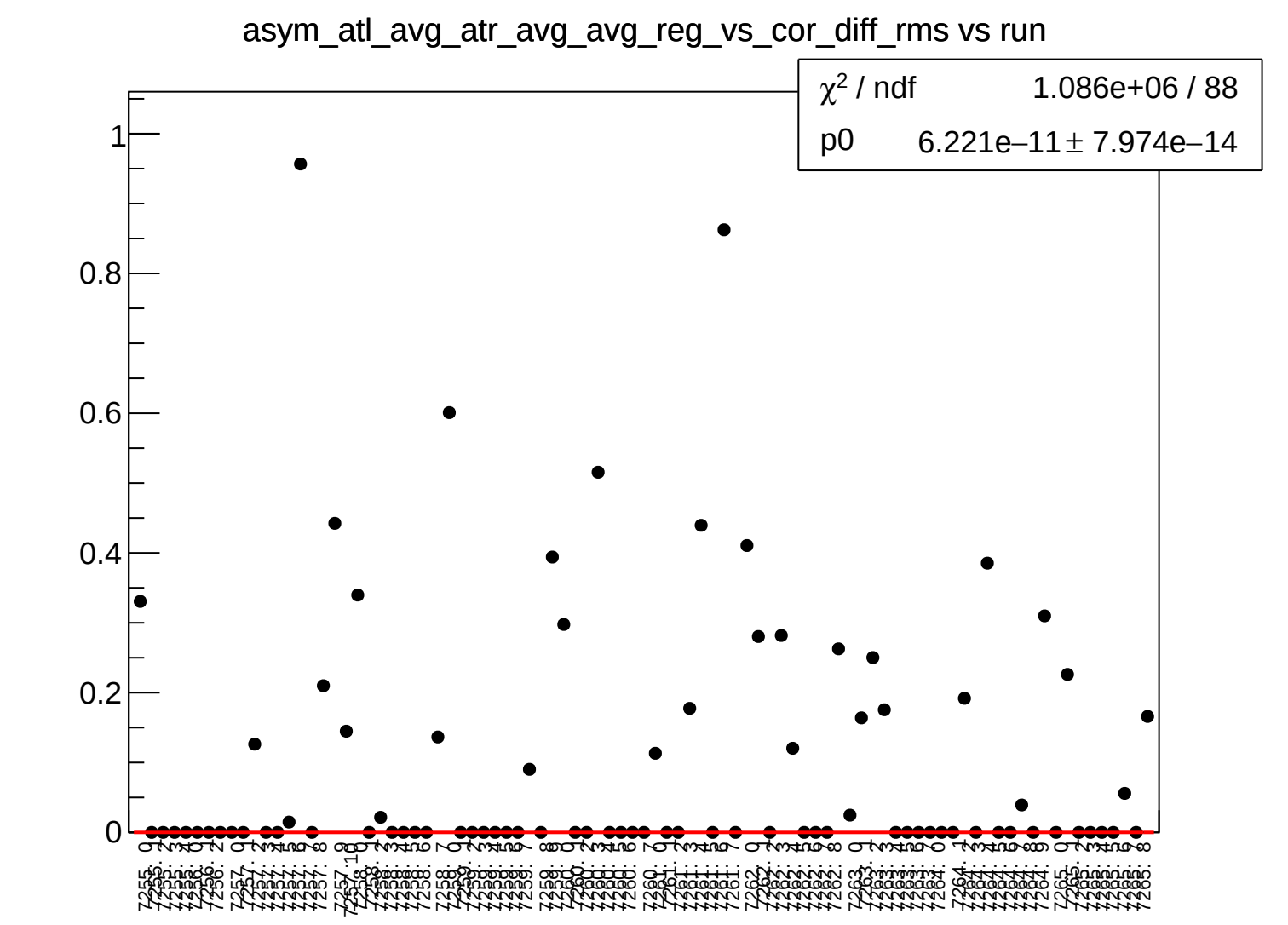

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 88.38 / 88
p0 −5190 ± 5406
200
100
0
−100
−200
pull
Entries 89
Mean −9454
Std Dev 0
3
2
1
0
−1
−2

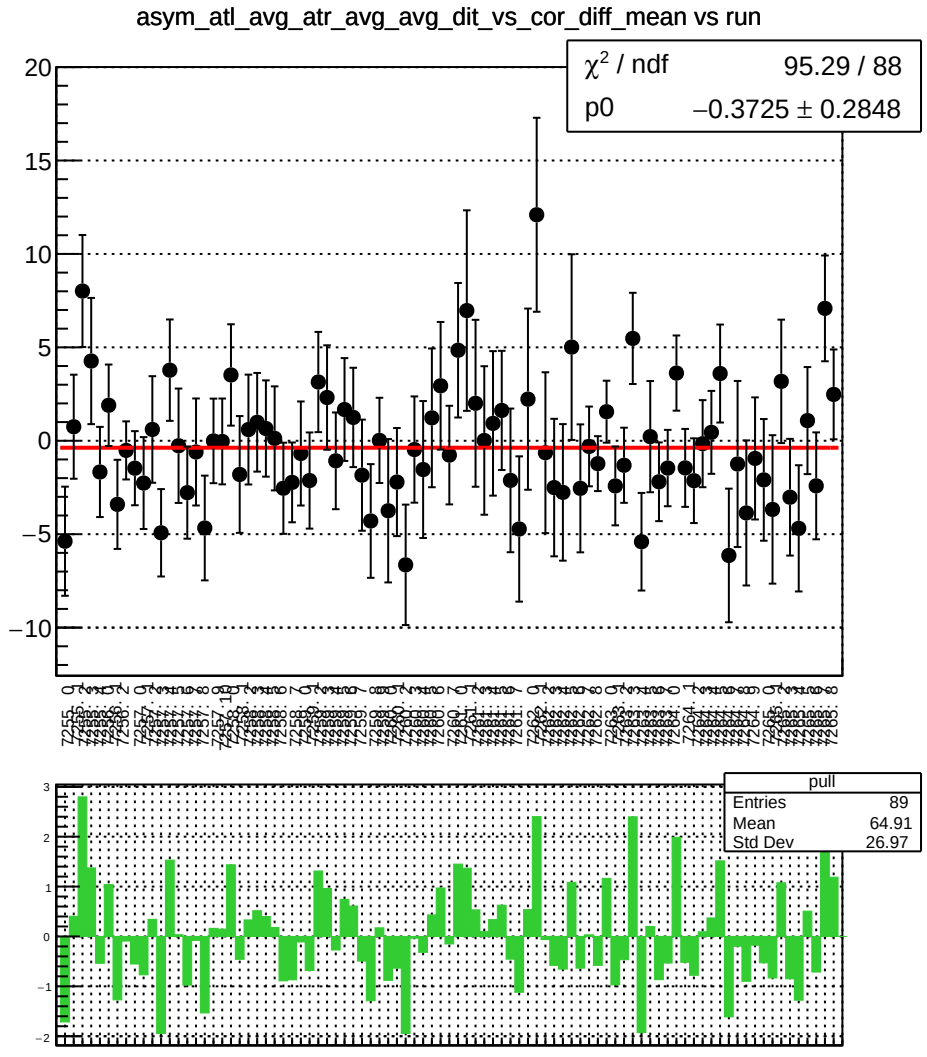

pull1D
Entries 89
Mean −0.0004888
Std Dev 0.9965
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

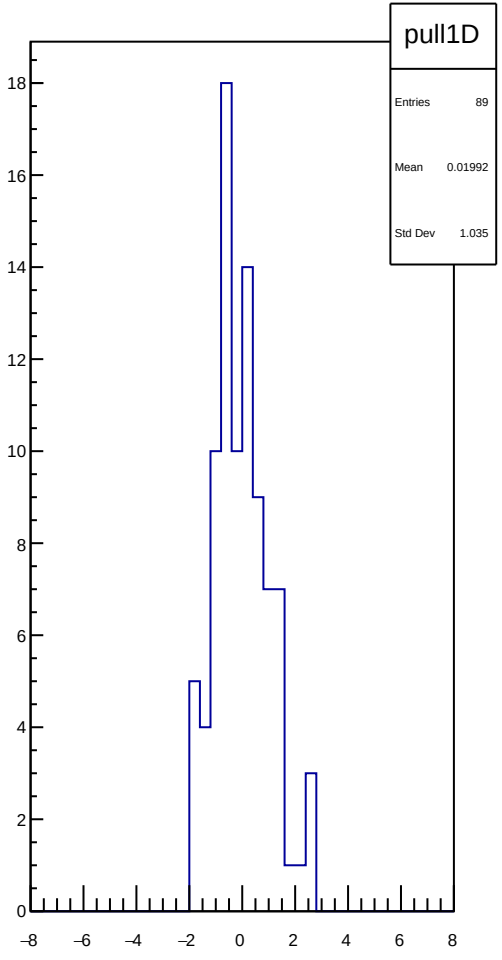

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 6937 / 88
p0 4966 ± 3.822
5800
5600
5400
5200
5000
4800
4600
4400
4200

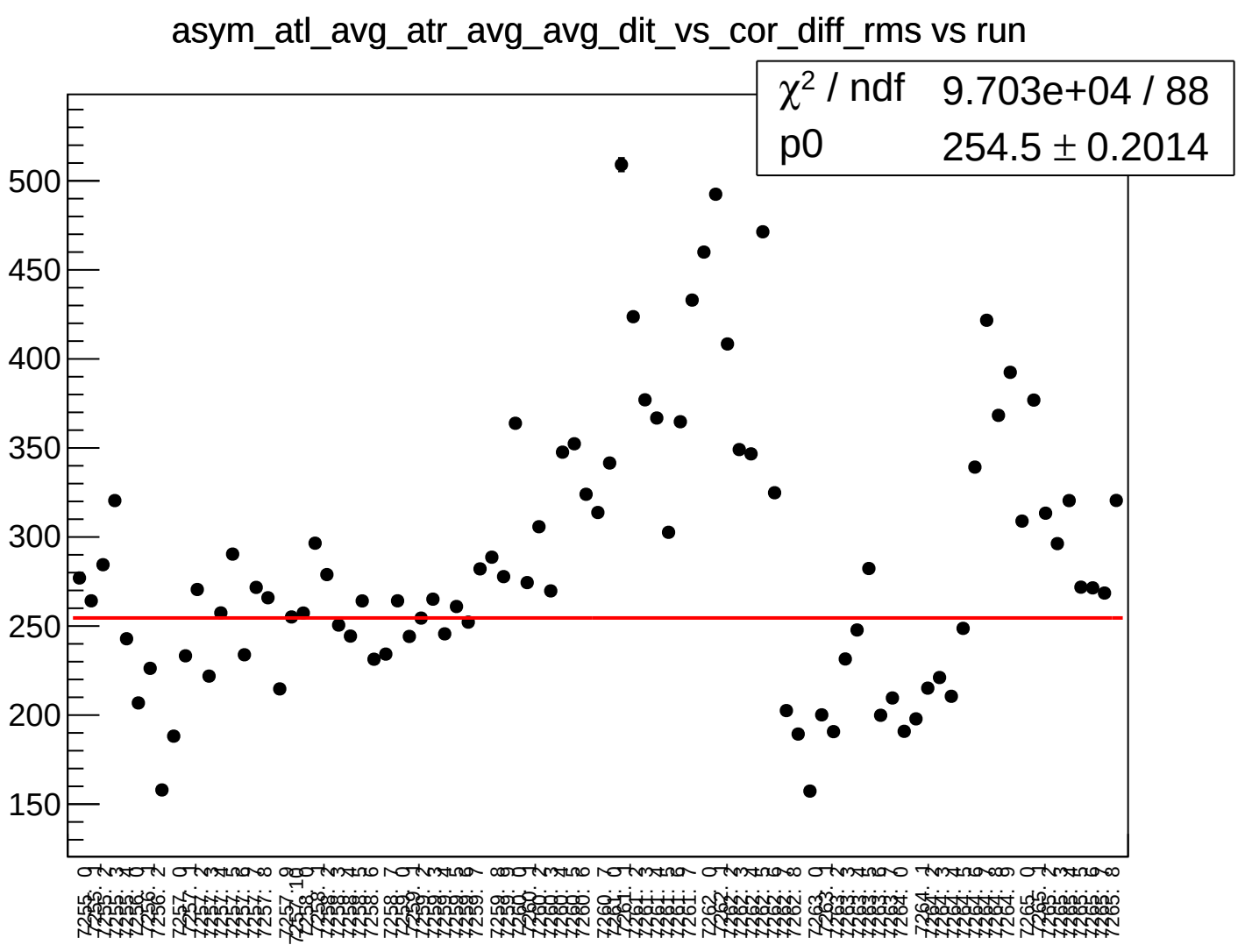

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.36 / 88
p0 1.001e−13 ± 1.128e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 80.49
Std Dev 0
2
1
0
−1
−2
−3

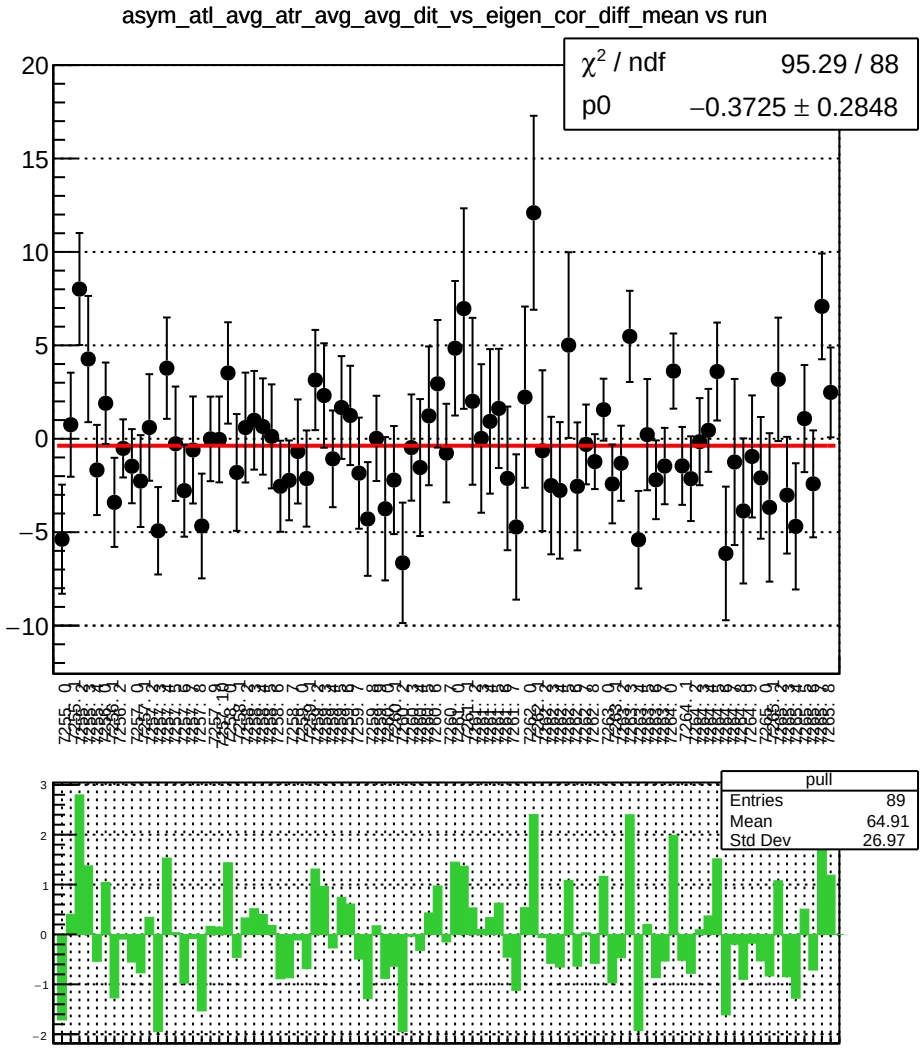

pull1D
Entries 89
Mean 0.08733
Std Dev 0.958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

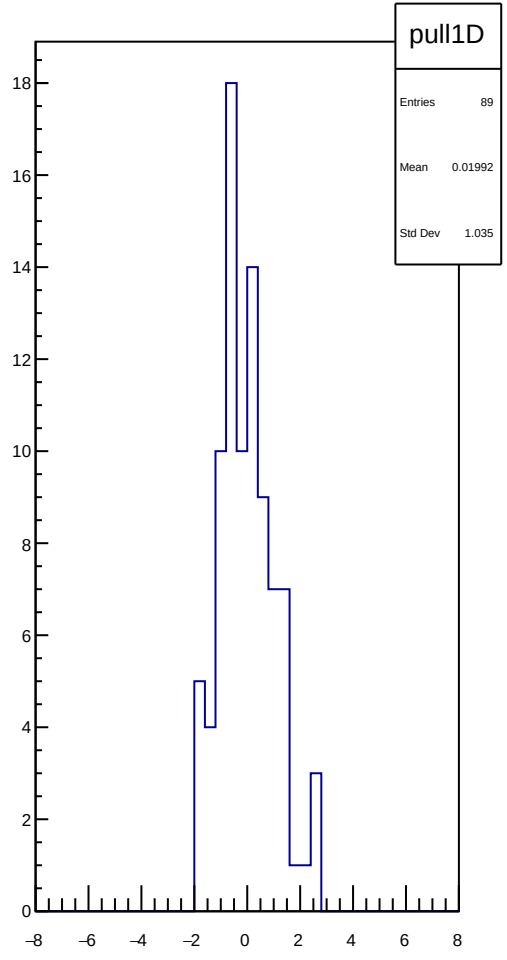

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.086e+06 / 88
p0 6.221e−11 ± 7.974e−14
1
0.8
0.6
0.4
0.2
0

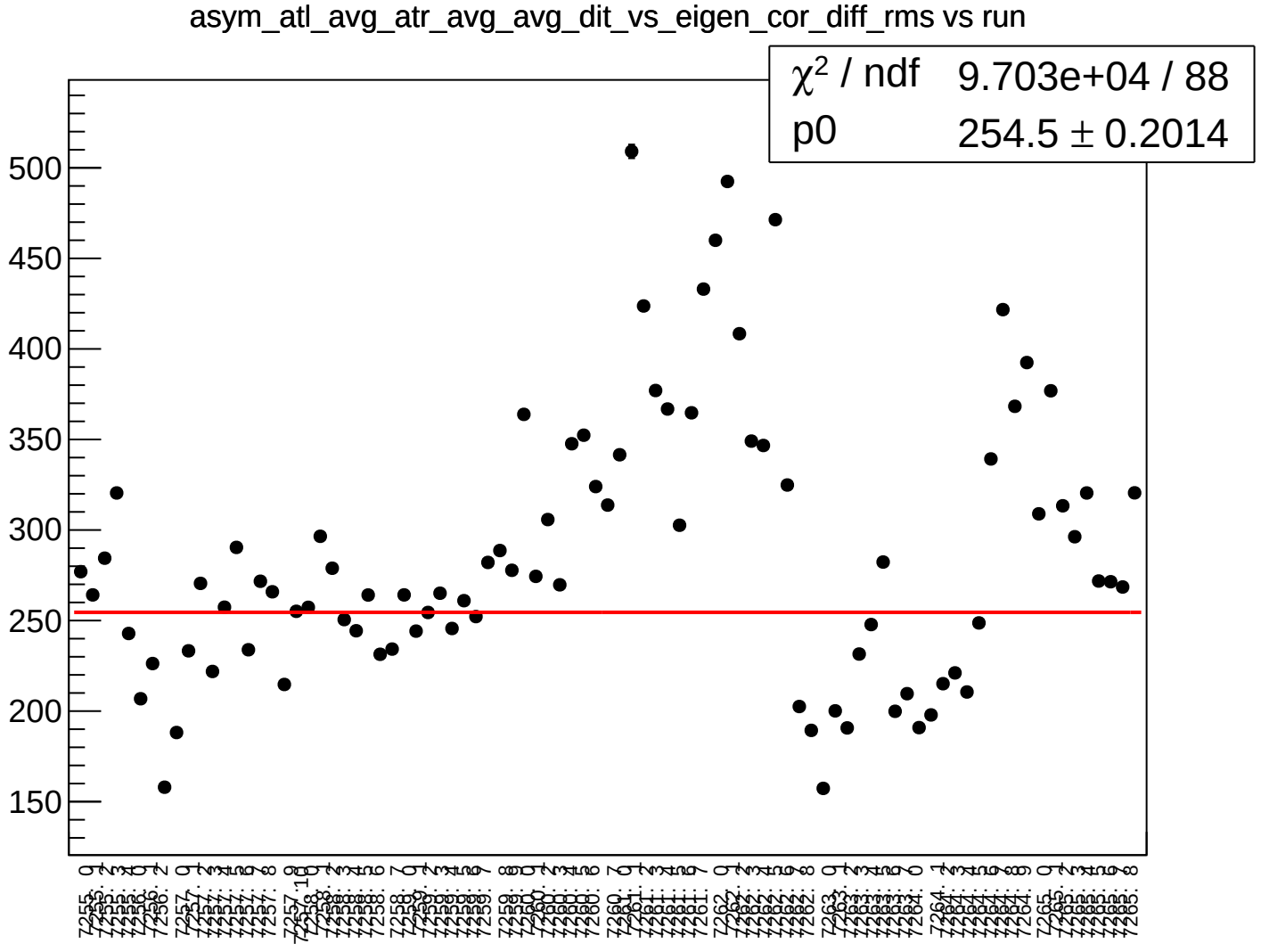

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.29 / 88
p0 −0.3725 ± 0.2848
pull
Entries 89
Mean 64.91
Std Dev 26.97

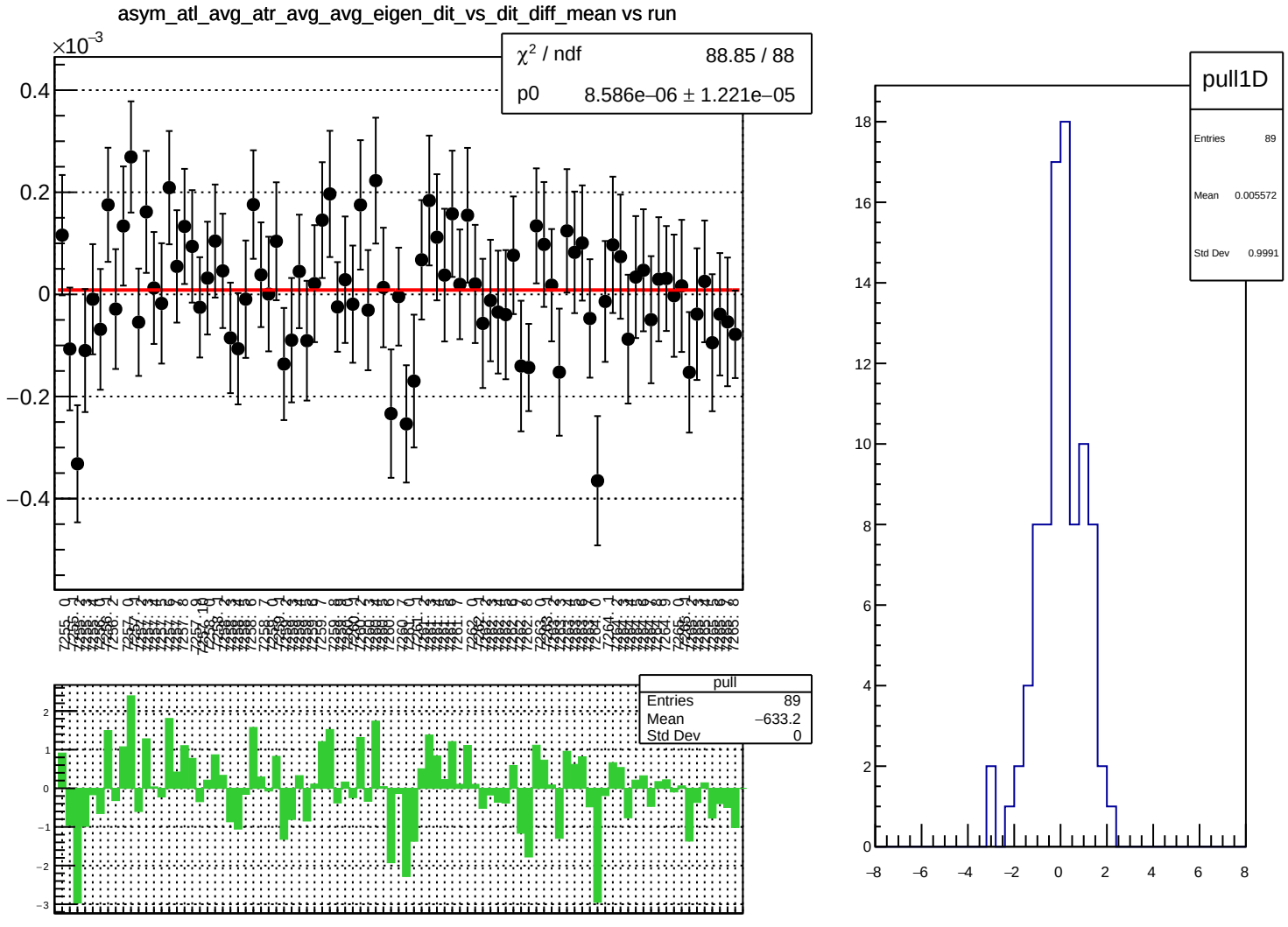

pull1D
Entries 89
Mean 0.01992
Std Dev 1.035

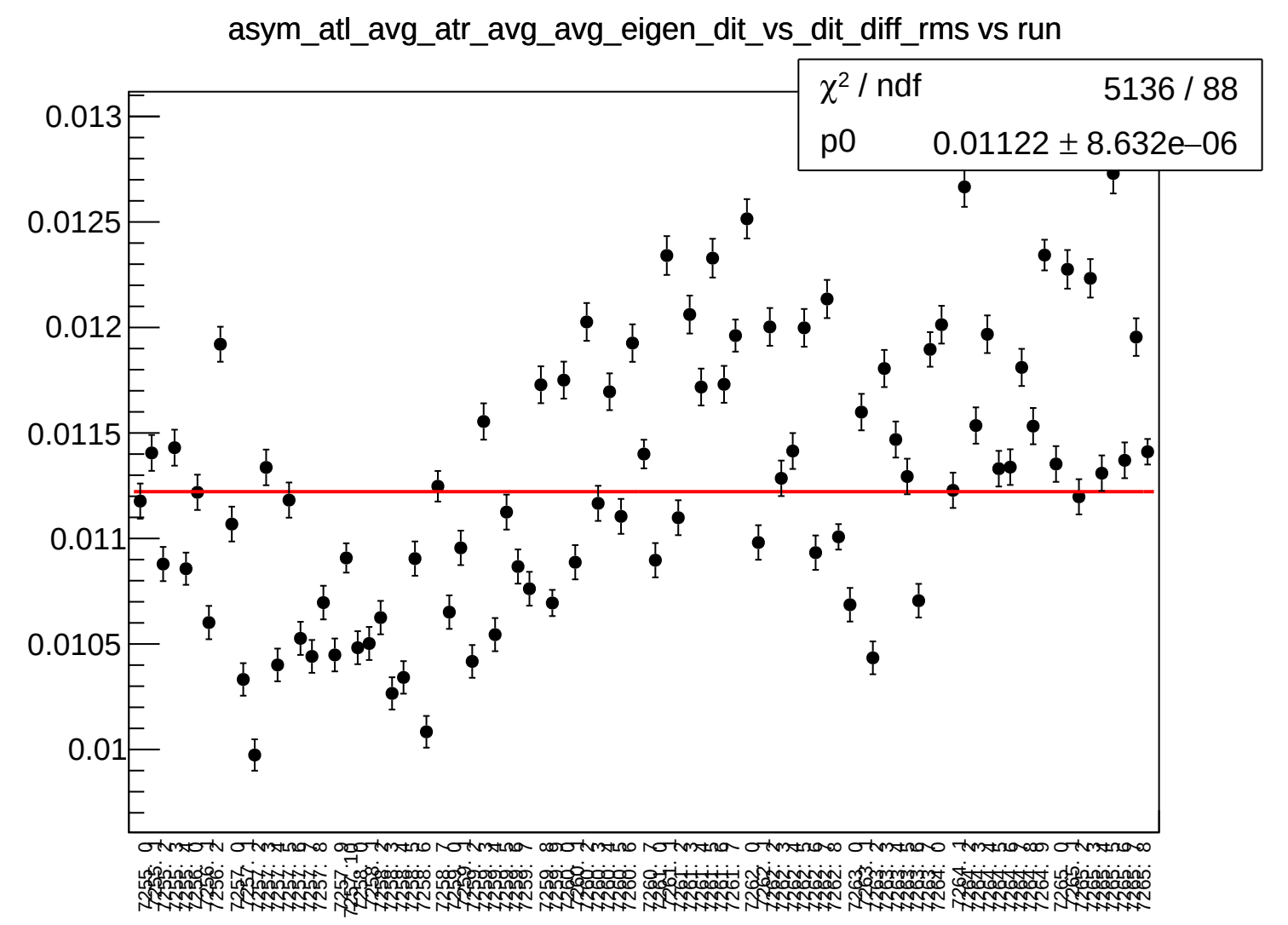

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.703e+04 / 88
p0 254.5 ± 0.2014
500
450
400
350
300
250
200
150

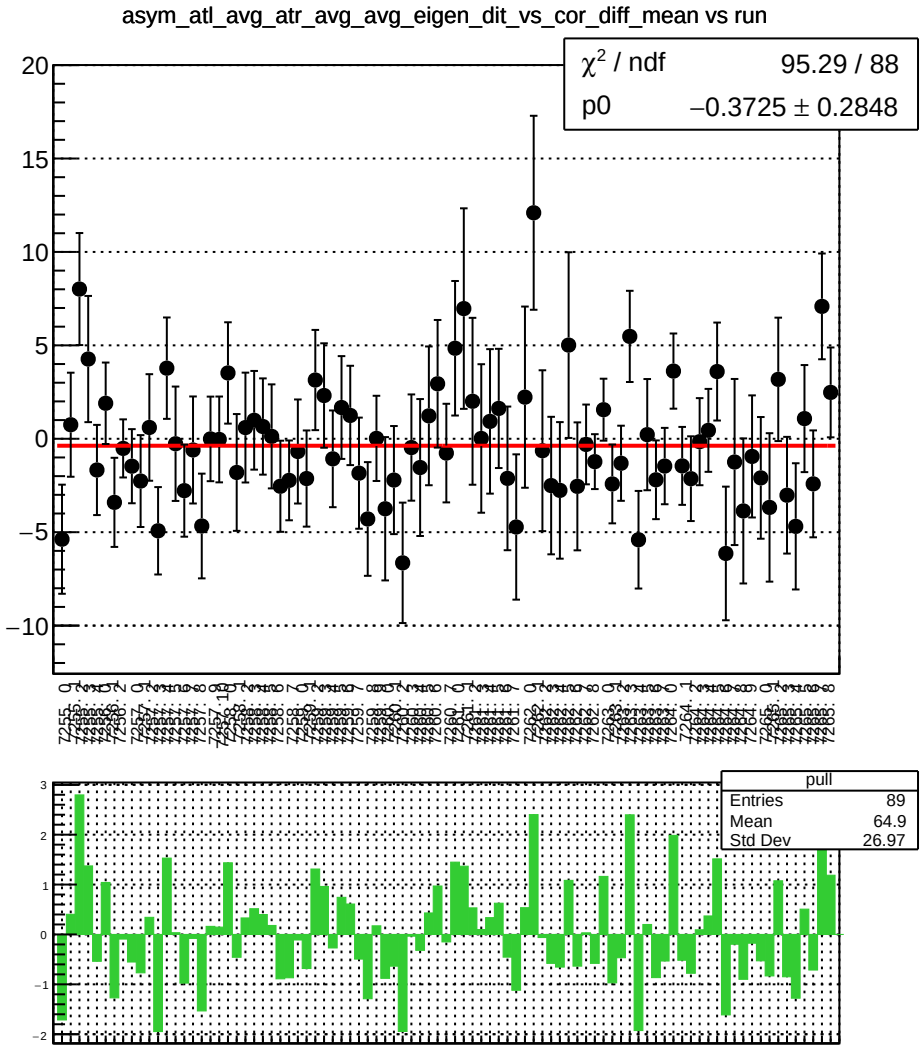

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.29 / 88
p0 −0.3725 ± 0.2848
pull
Entries 89
Mean 64.91
Std Dev 26.97

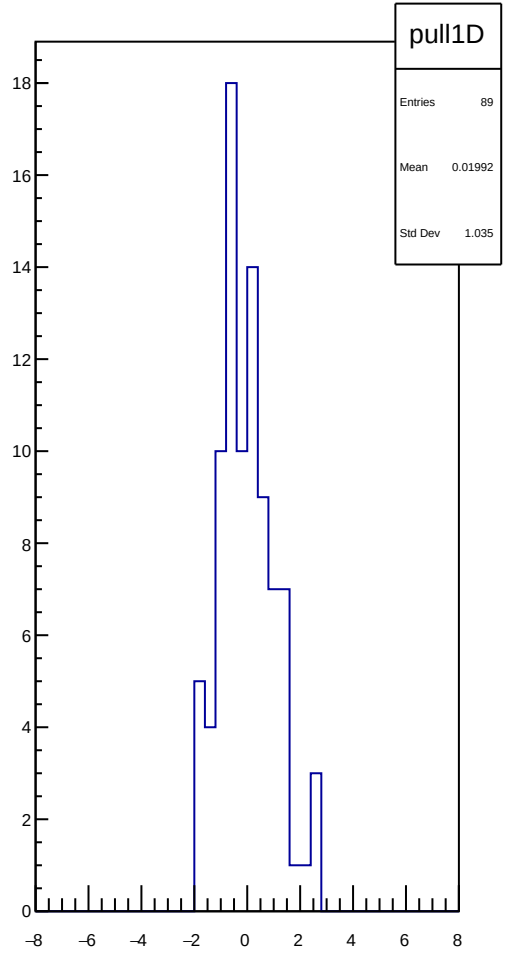

pull1D
Entries 89
Mean 0.01992
Std Dev 1.035

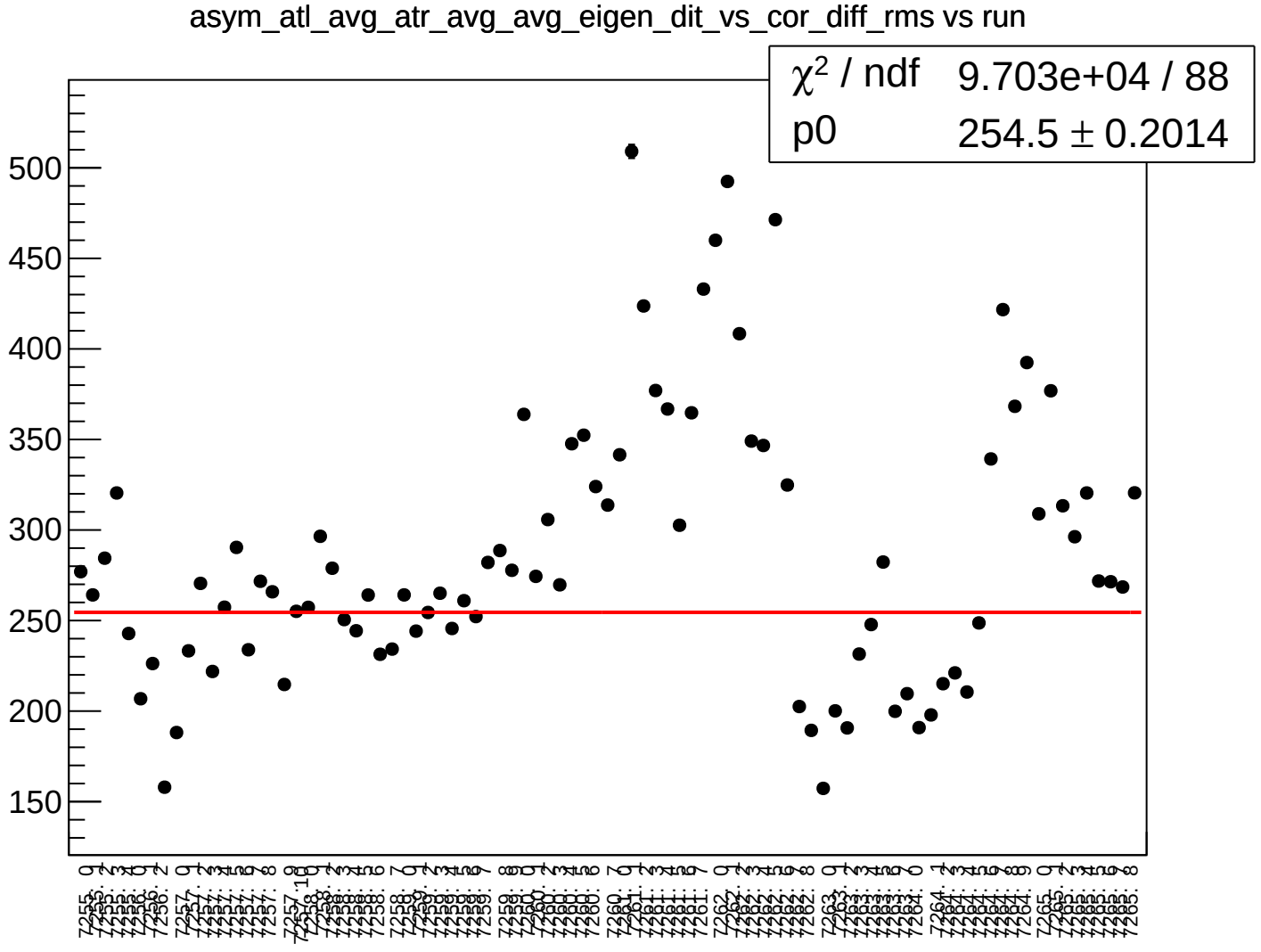

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.703e+04 / 88
p0 254.5 ± 0.2014
500
450
400
350
300
250
200
150

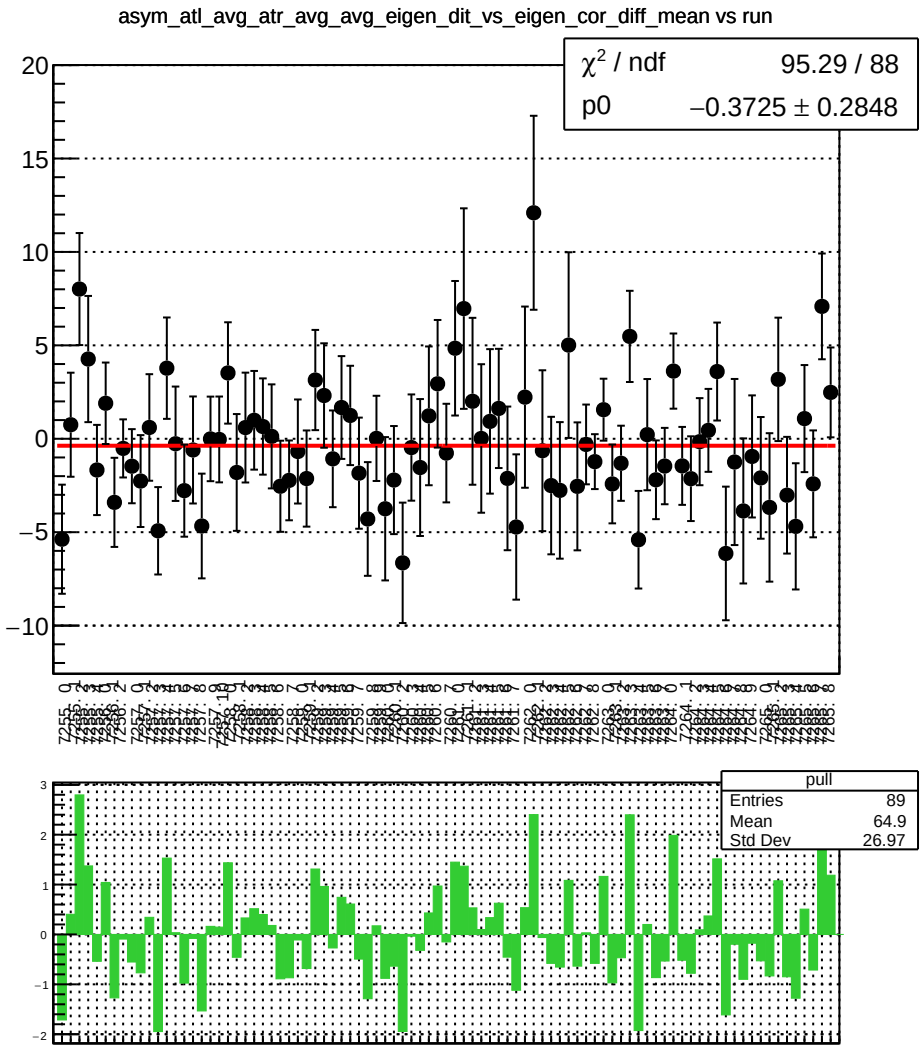

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.85 / 88
p0 8.586e−06 ± 1.221e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean −633.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.005572
Std Dev 0.9991
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

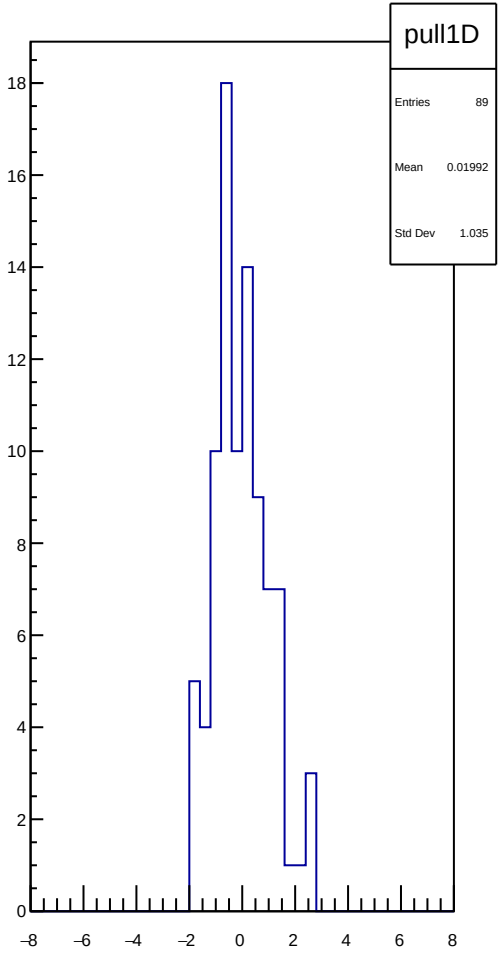

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5136 / 88
p0 0.01122 ± 8.632e−06
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01

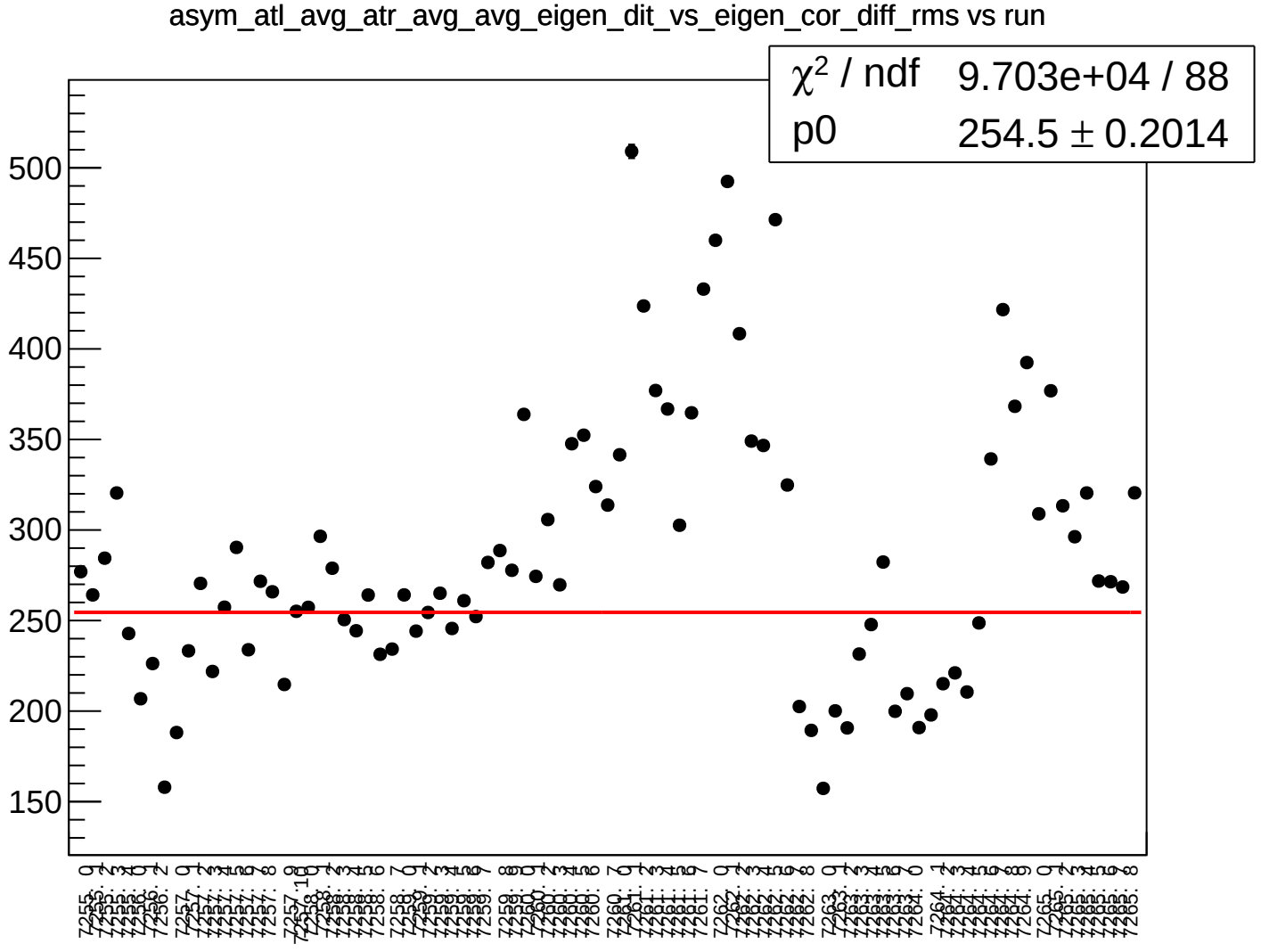

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.29 / 88
p0 −0.3725 ± 0.2848
pull
Entries 89
Mean 64.9
Std Dev 26.97

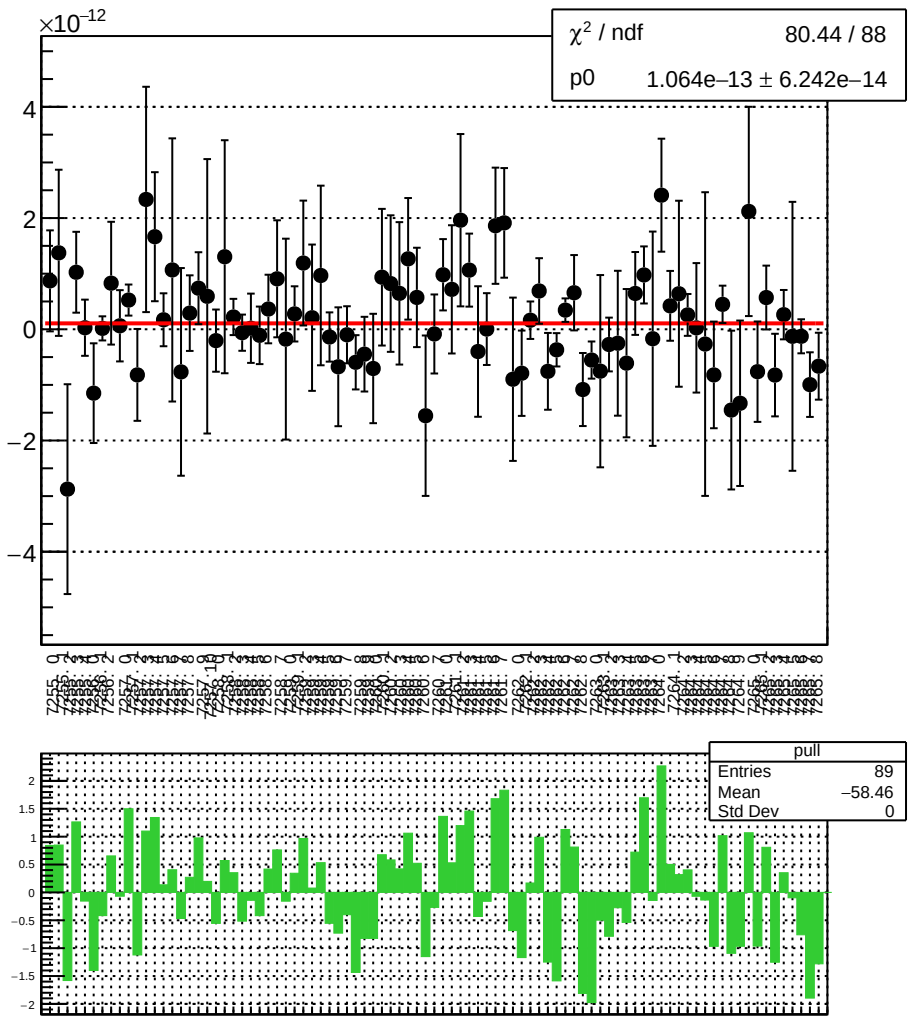

pull1D
Entries 89
Mean 0.01992
Std Dev 1.035

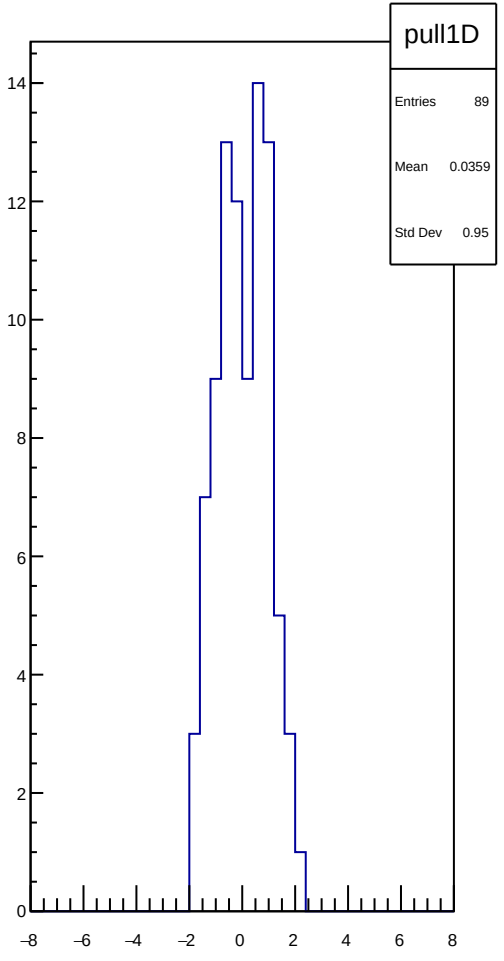

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.703e+04 / 88
p0 254.5 ± 0.2014
500
450
400
350
300
250
200
150

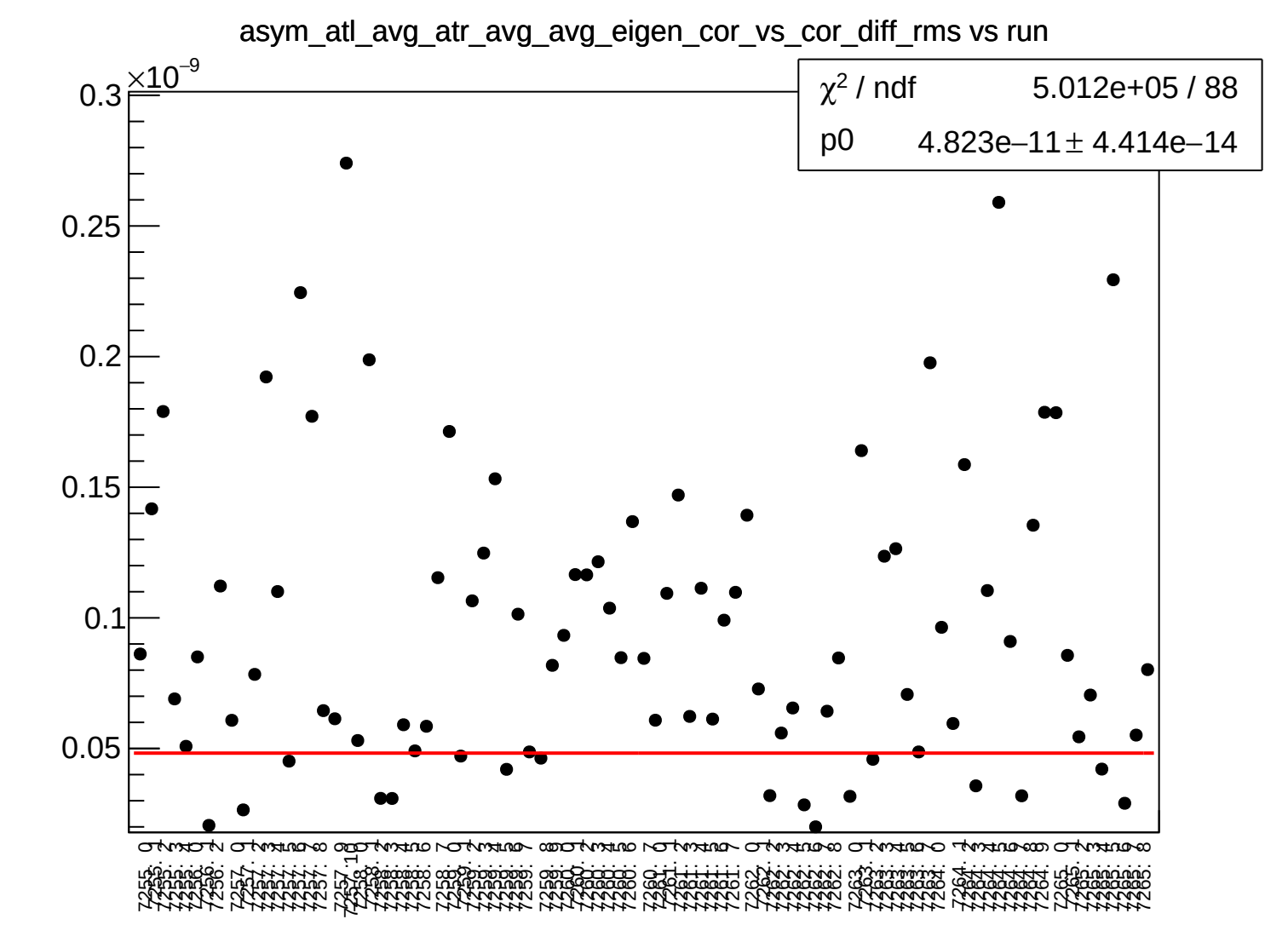

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.29 / 88
p0 −0.3725 ± 0.2848
pull
Entries 89
Mean 64.9
Std Dev 26.97

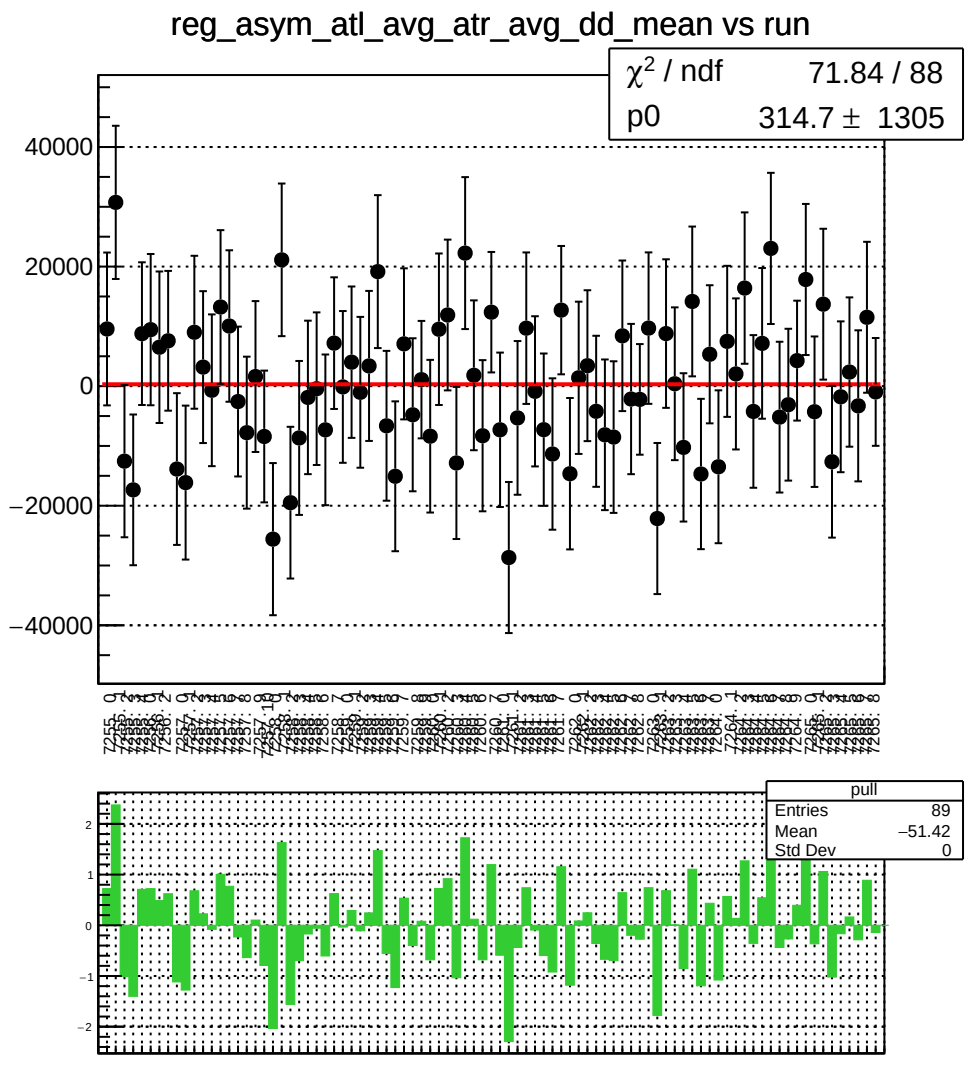

pull1D
Entries 89
Mean 0.01992
Std Dev 1.035

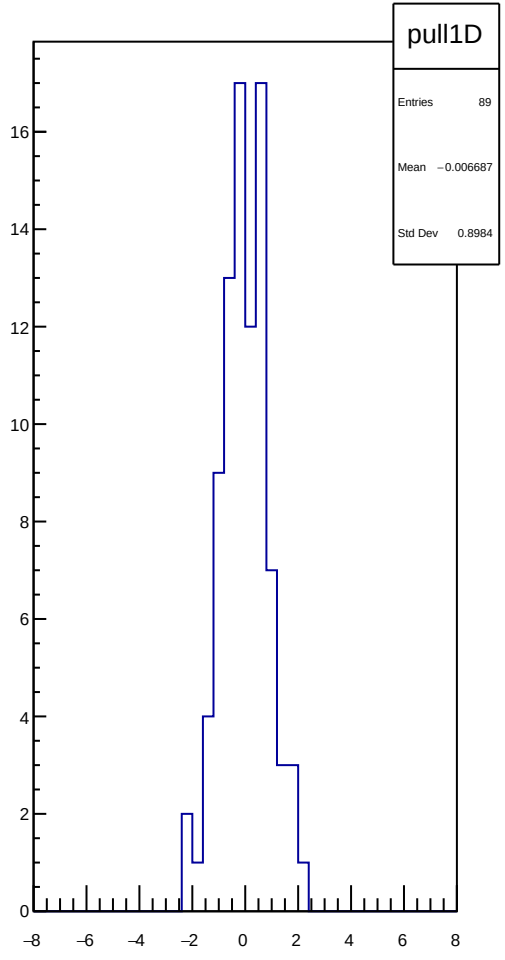

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.703e+04 / 88
p0 254.5 ± 0.2014
500
450
400
350
300
250
200
150

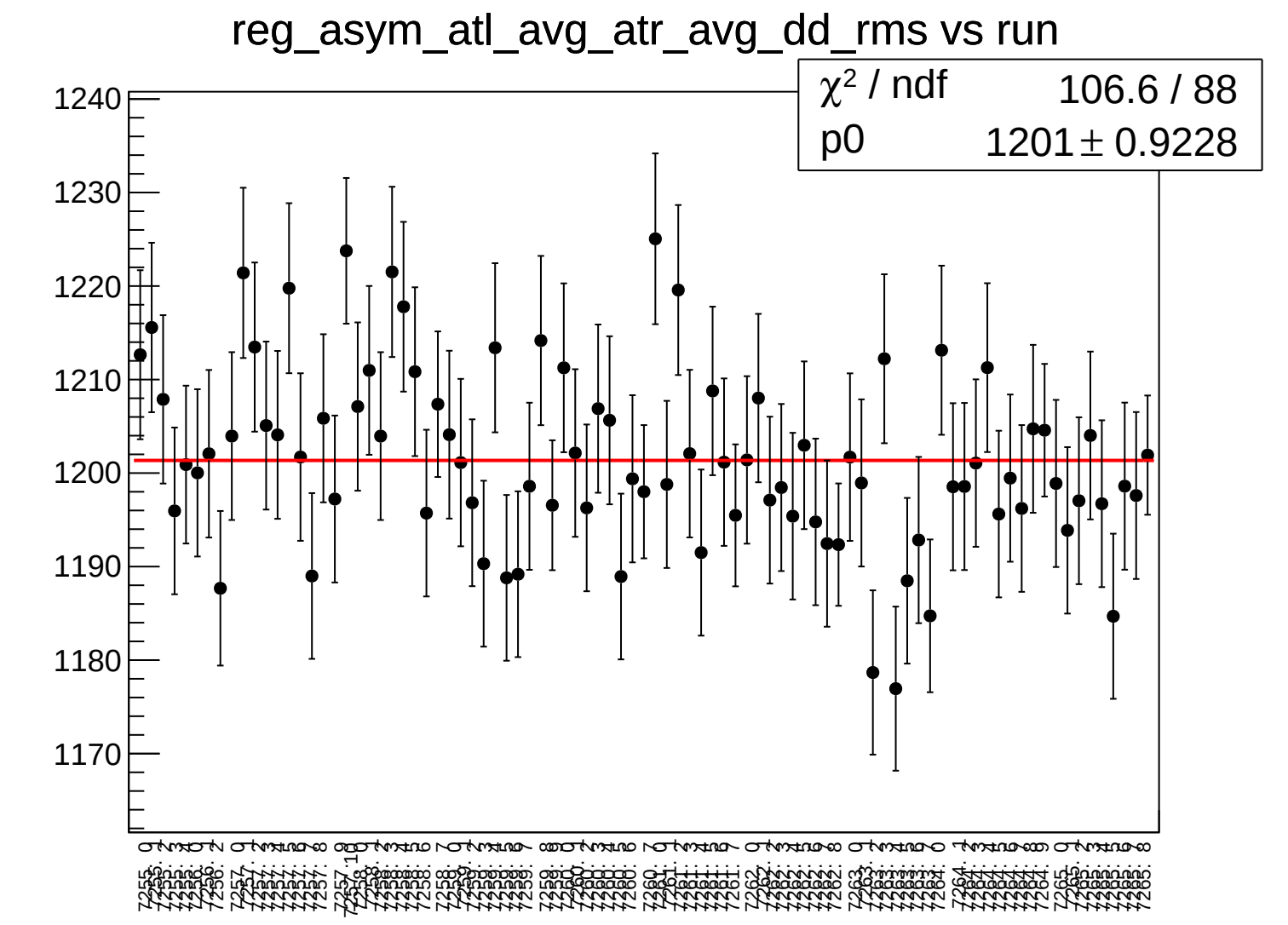

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.44 / 88
p0 1.064e−13 ± 6.242e−14
pull
Entries 89
Mean −58.46
Std Dev 0

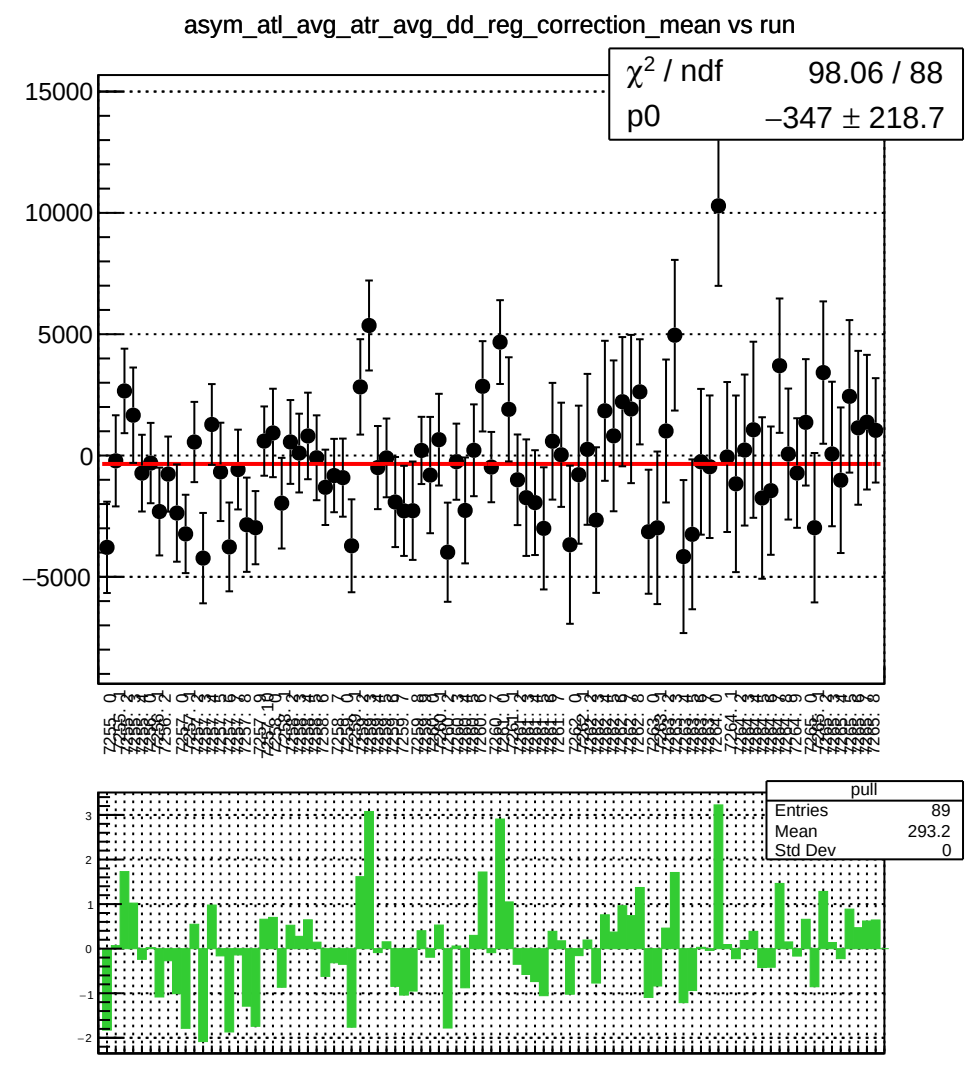

pull1D
Entries 89
Mean 0.0359
Std Dev 0.95

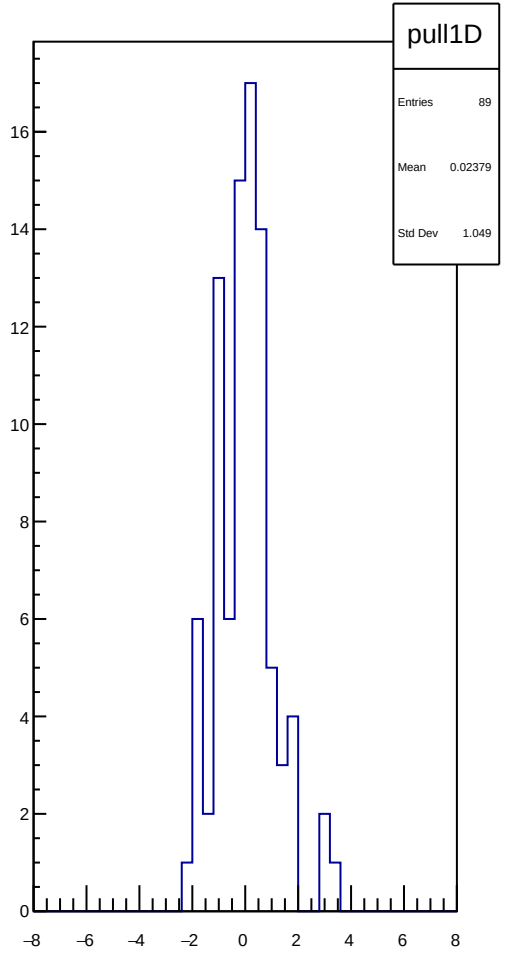

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 5.012e+05 / 88
p0 4.823e−11 ± 4.414e−14

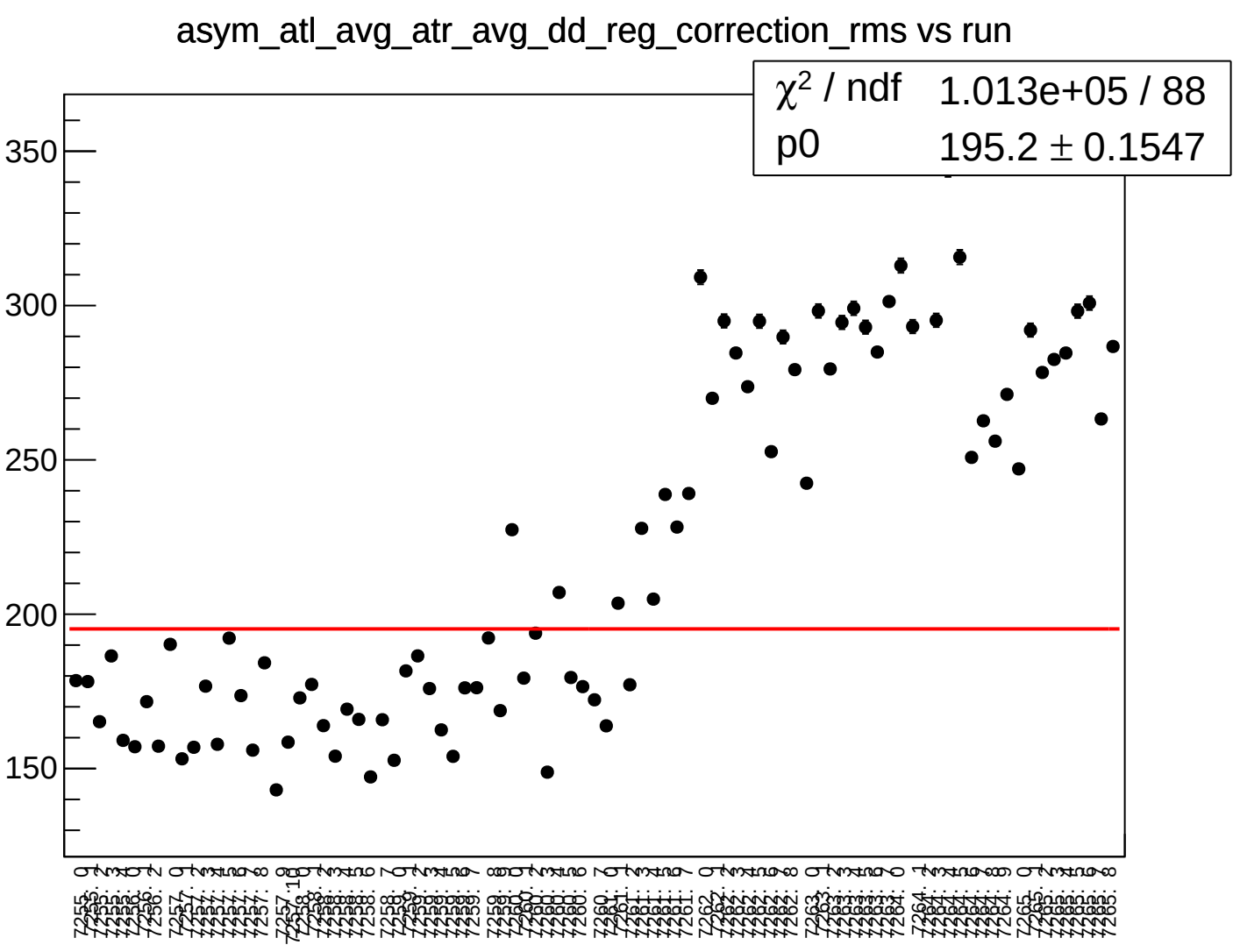

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 71.84 / 88
p0 314.7 ± 1305
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −51.42
Std Dev 0
2
1
0
−1
−2

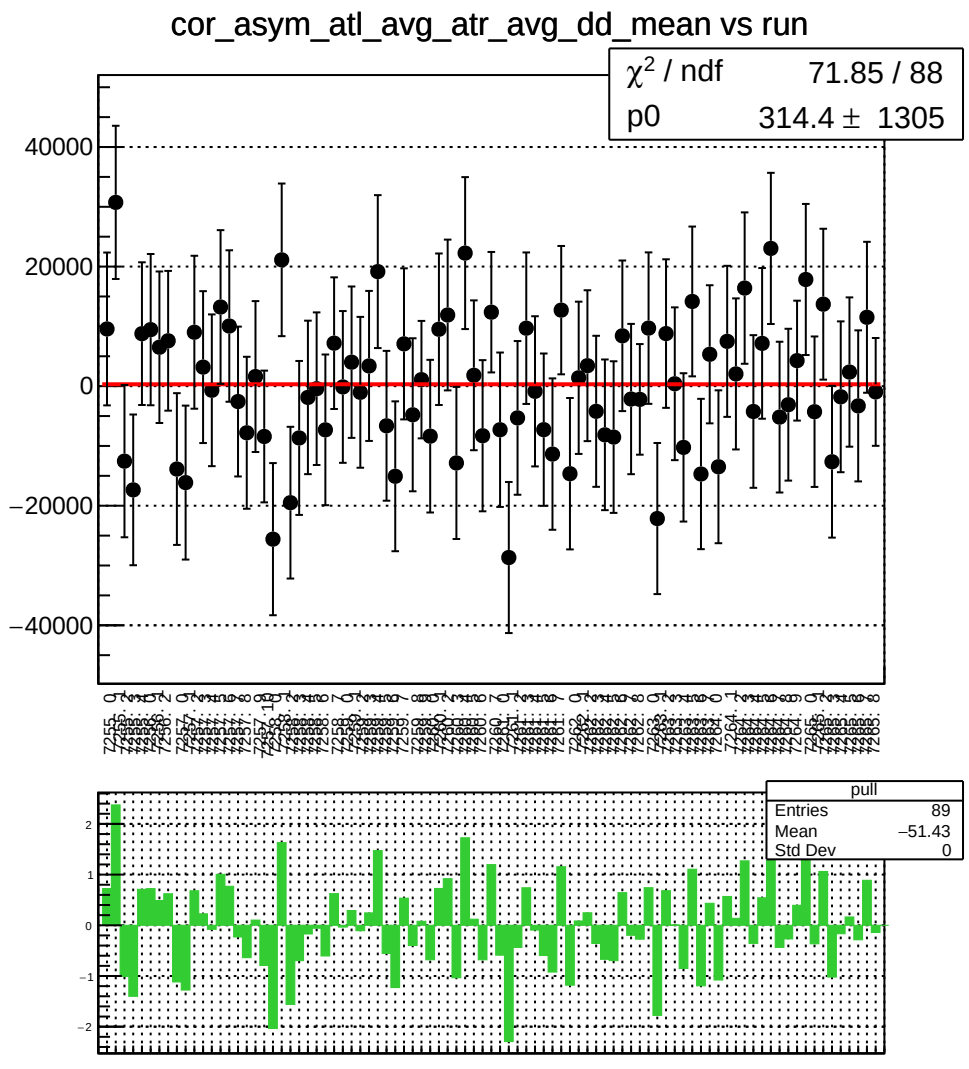

pull1D
Entries 89
Mean −0.006687
Std Dev 0.8984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

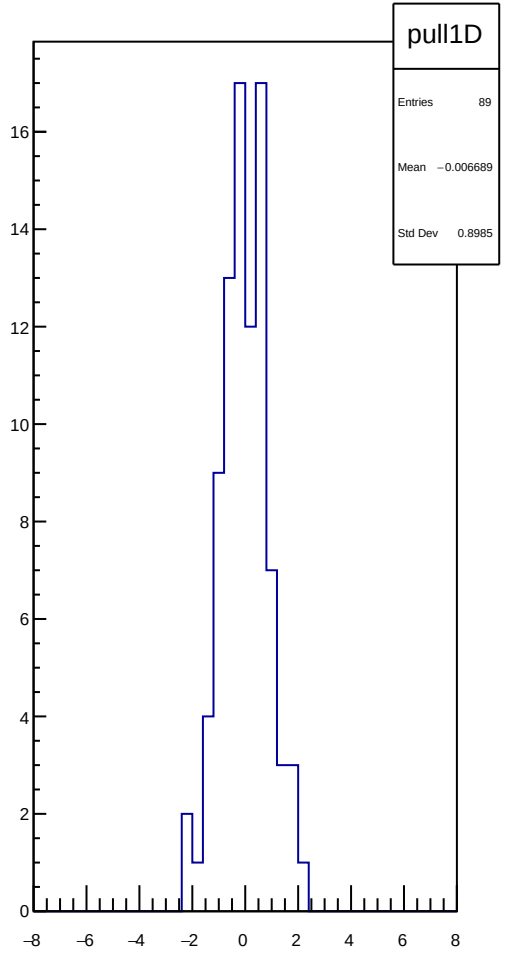

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 106.6 / 88
p0 1201 ± 0.9228
1240
1230
1220
1210
1200
1190
1180
1170

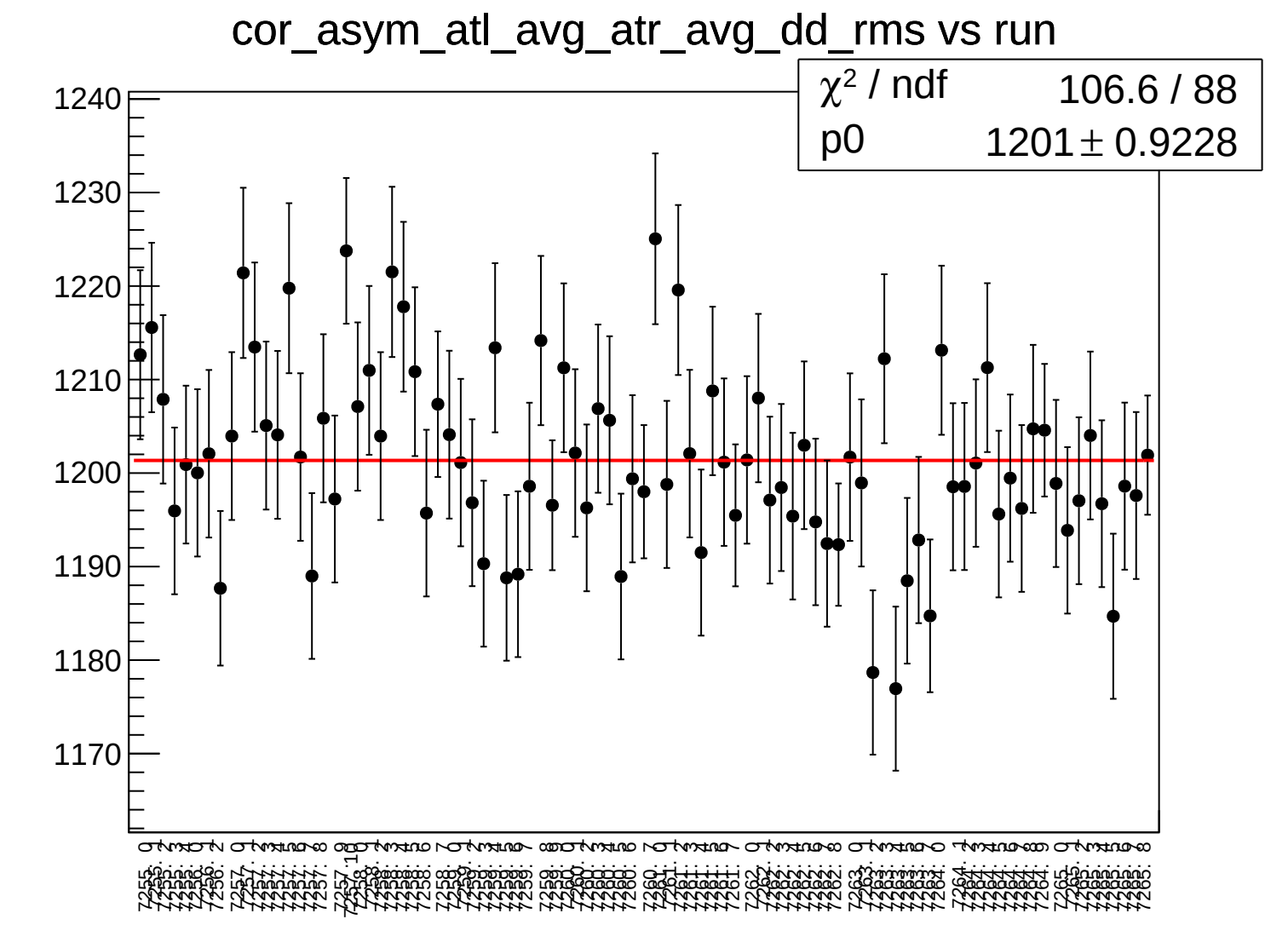

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 98.06 / 88
p0 −347 ± 218.7
15000
10000
5000
0
−5000
pull
Entries 89
Mean 293.2
Std Dev 0
3
2
1
0
−1
−2

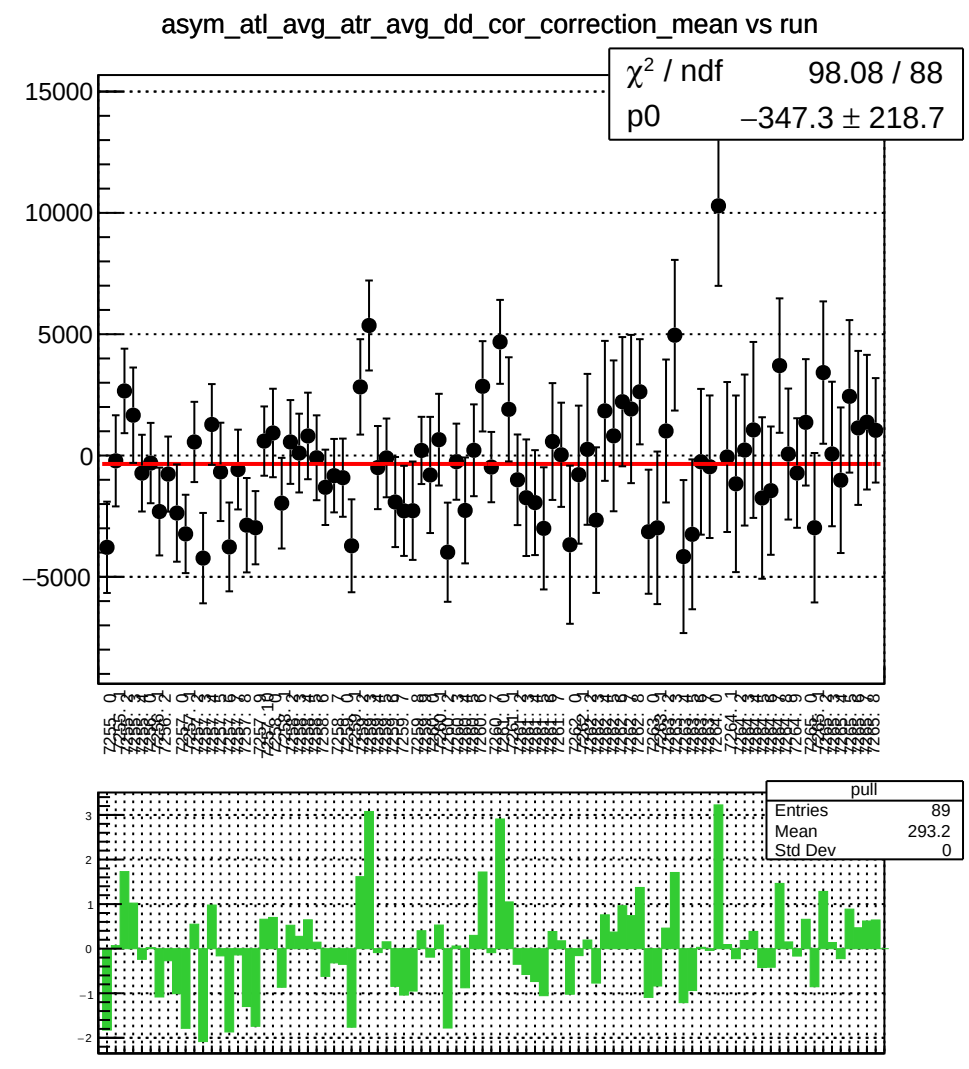

pull1D
Entries 89
Mean 0.02379
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

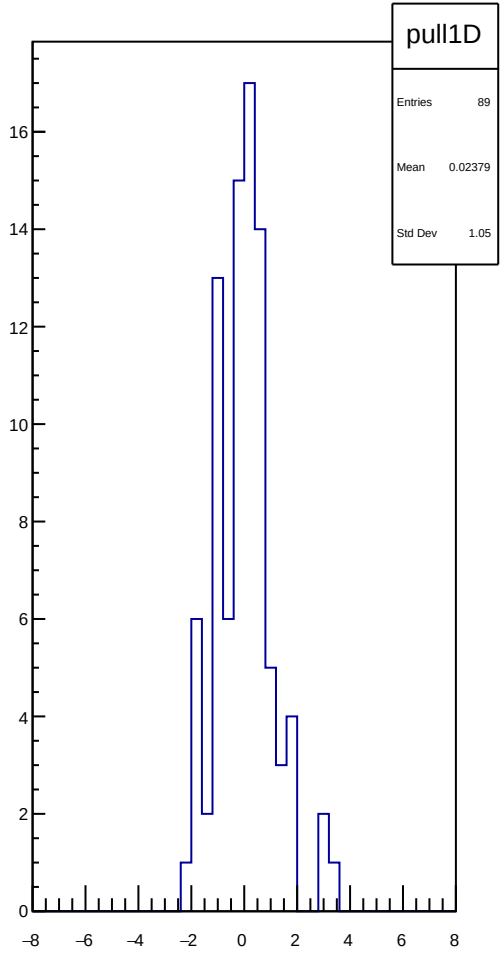

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.013e+05 / 88
p0 195.2 ± 0.1547
350
300
250
200
150

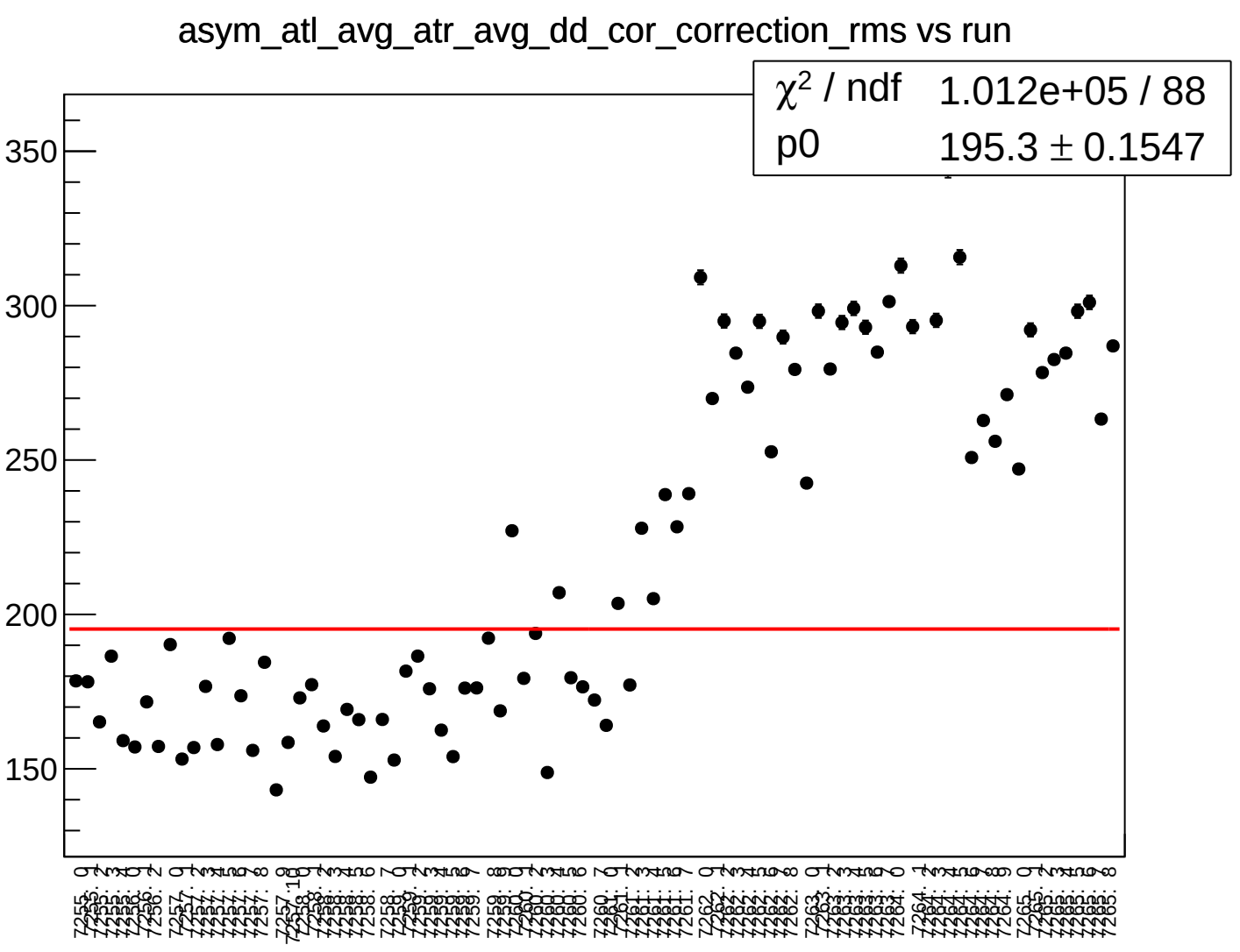

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 71.85 / 88
p0 314.4 ± 1305
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −51.43
Std Dev 0
2
1
0
−1
−2

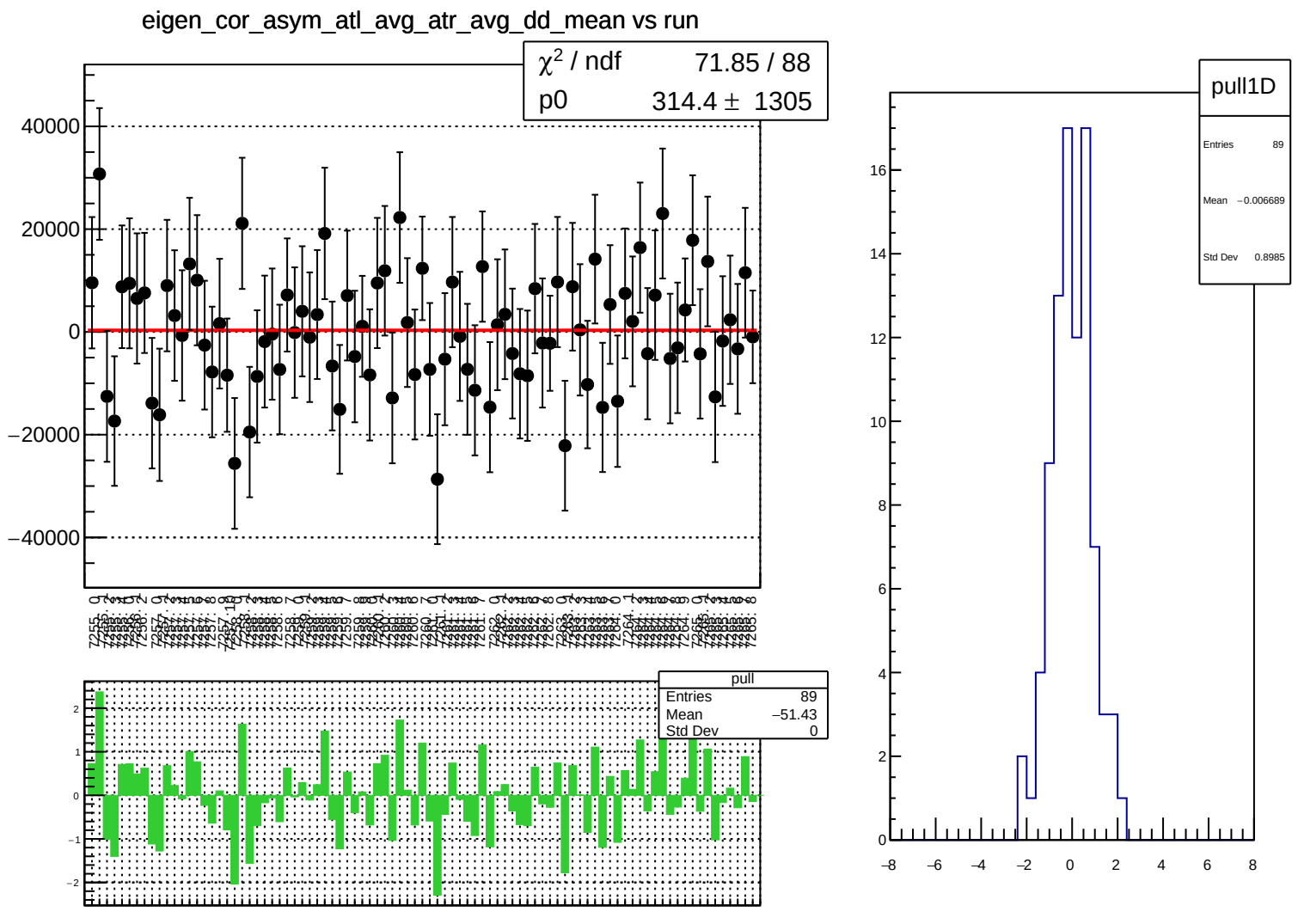

pull1D
Entries 89
Mean −0.006689
Std Dev 0.8985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

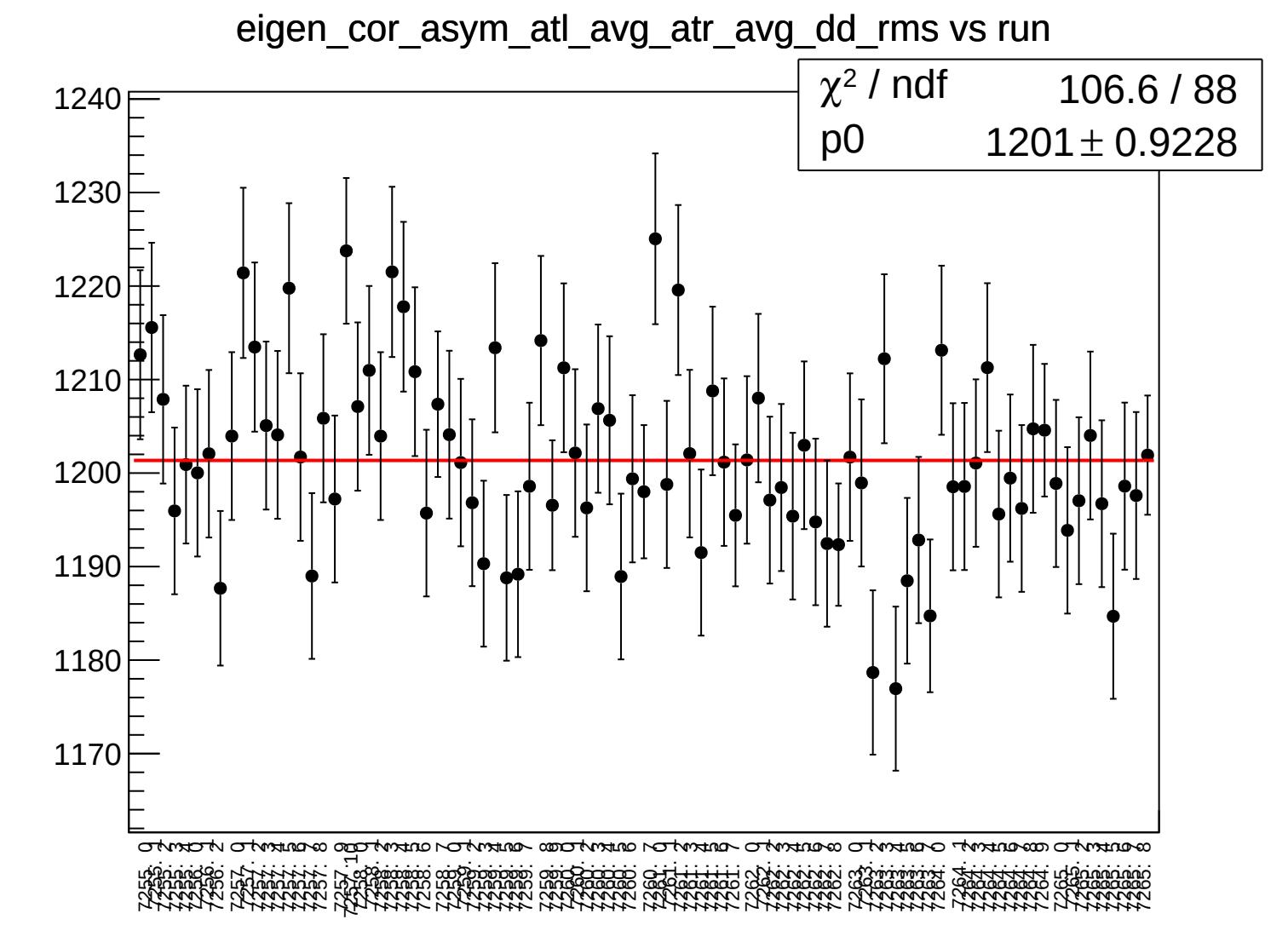

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 106.6 / 88
p0 1201 ± 0.9228
1240
1230
1220
1210
1200
1190
1180
1170

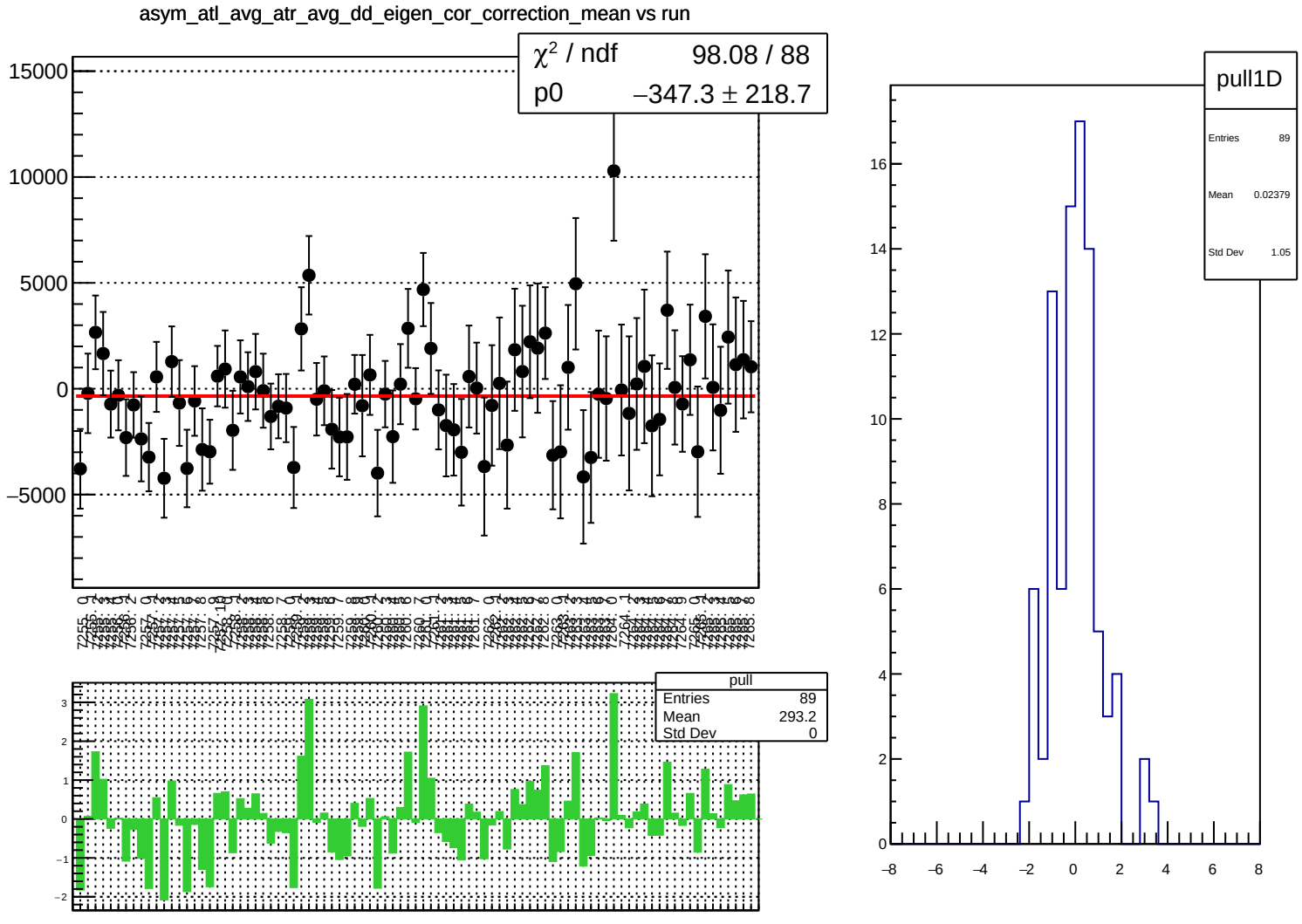

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 98.08 / 88
p0 −347.3 ± 218.7
15000
10000
5000
0
−5000
pull
Entries 89
Mean 293.2
Std Dev 0
3
2
1
0
−1
−2

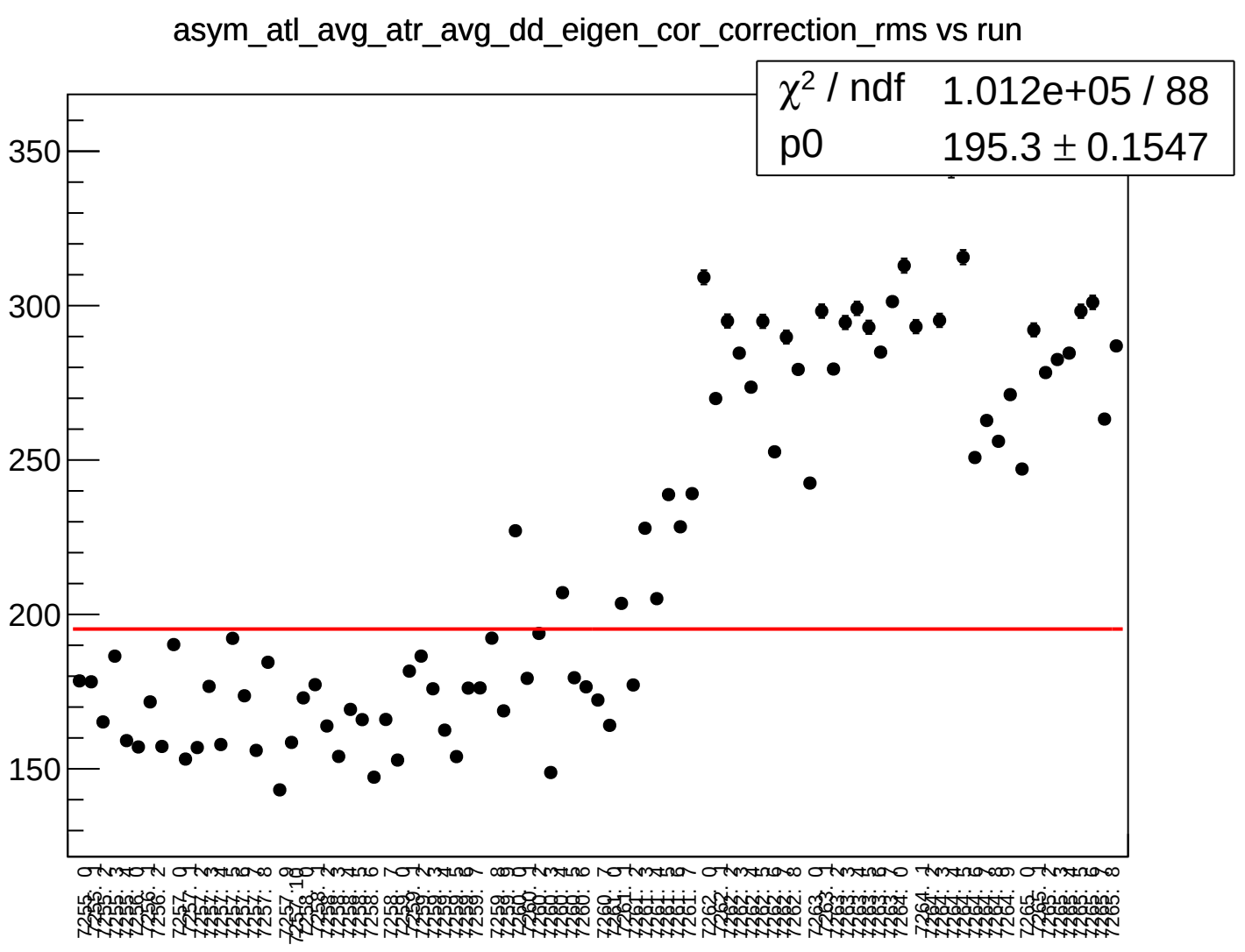

pull1D
Entries 89
Mean 0.02379
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

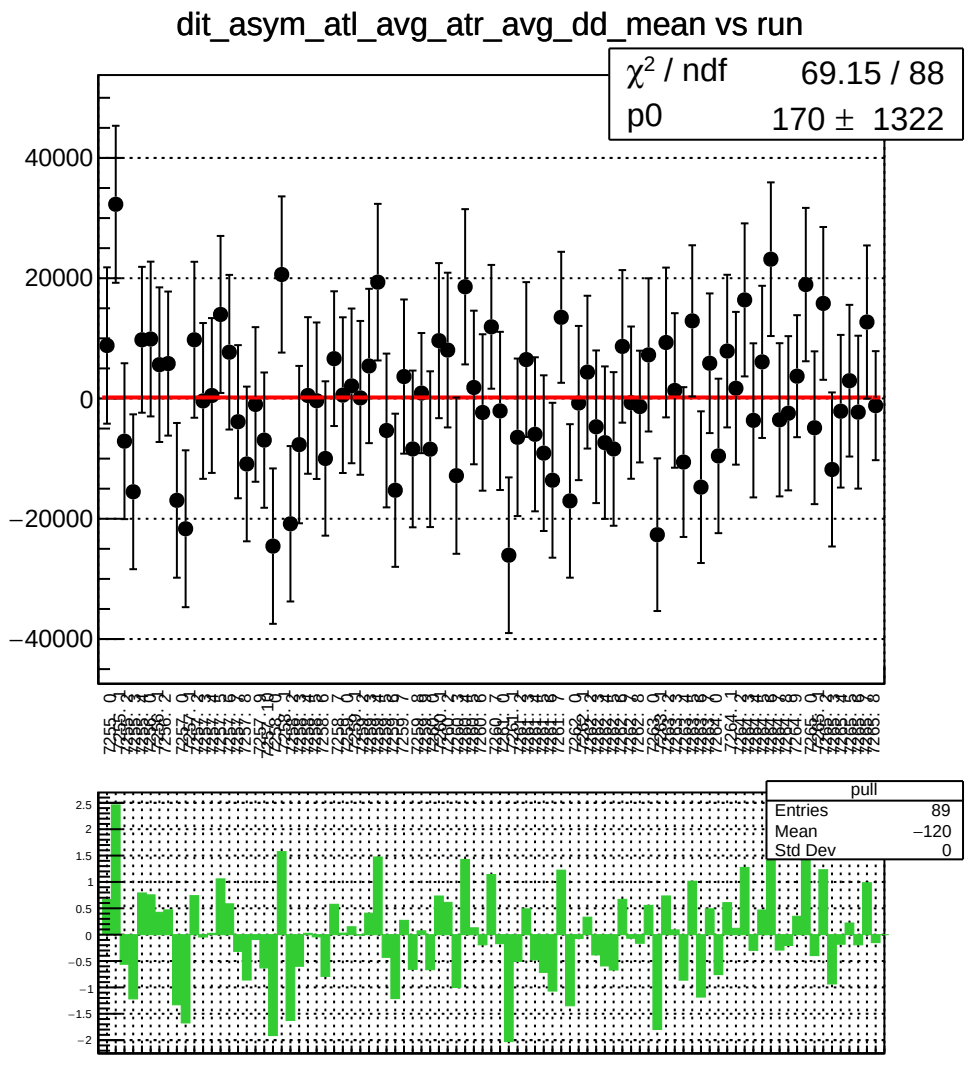

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.012e+05 / 88
p0 195.3 ± 0.1547
350
300
250
200
150

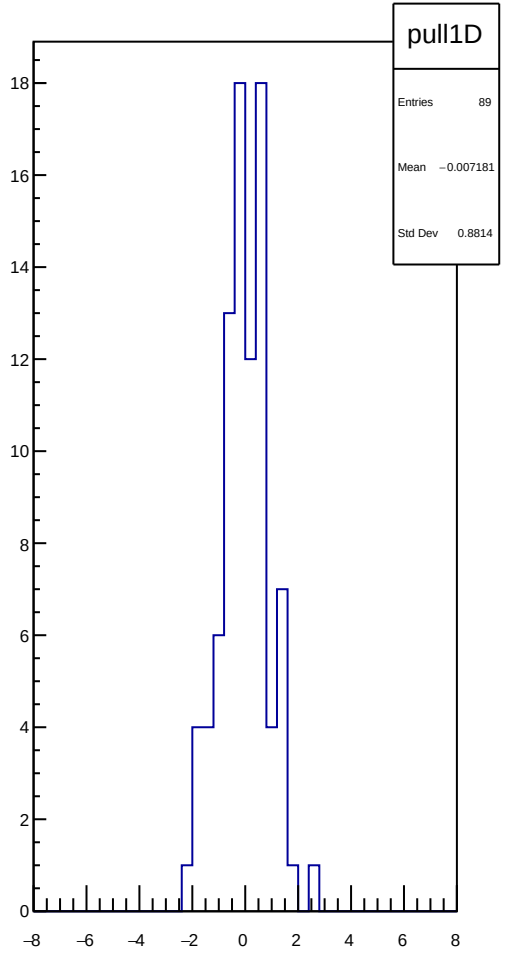

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 71.85 / 88
p0 314.4 ± 1305
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −51.43
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.006689
Std Dev 0.8985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

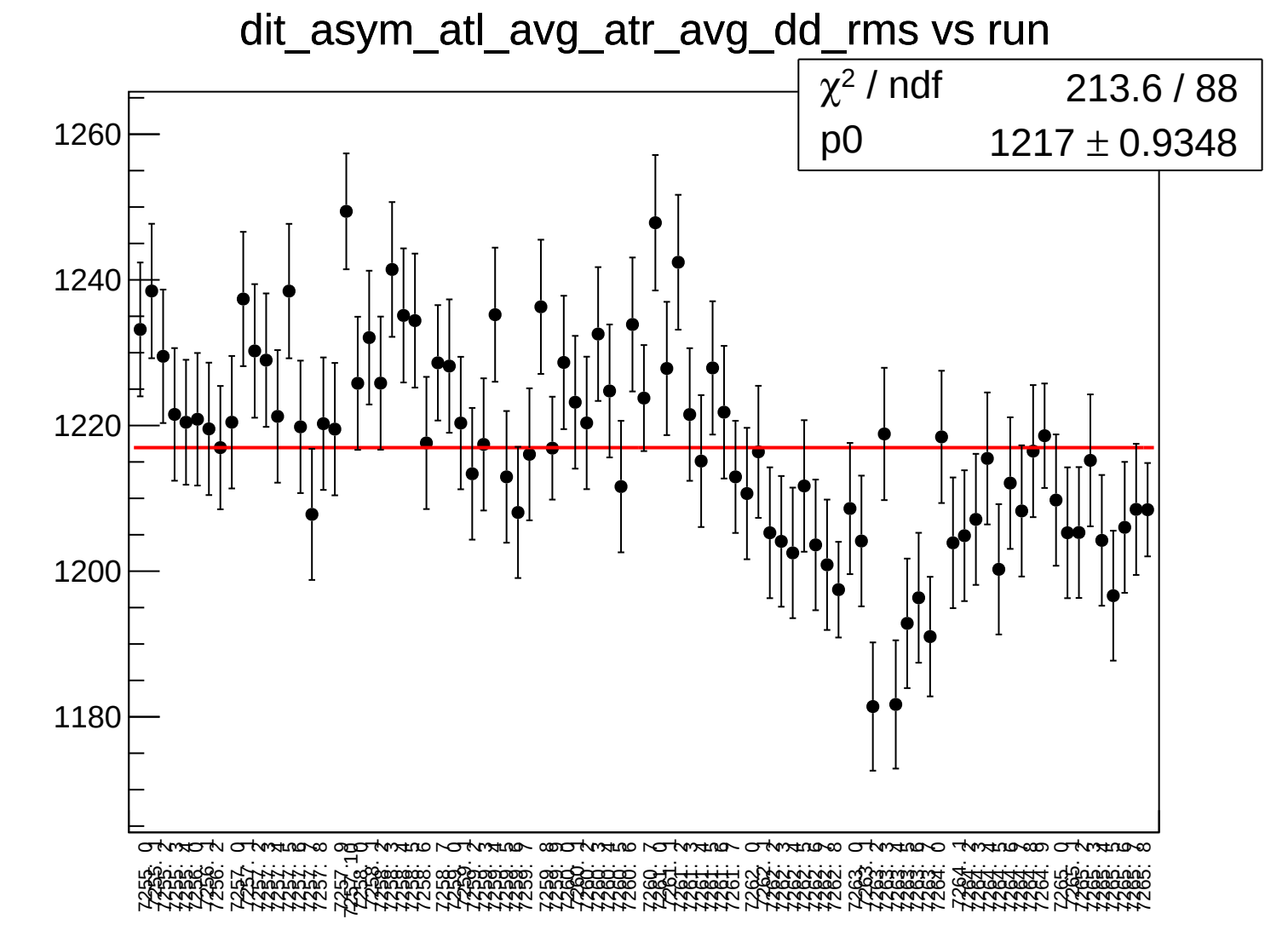

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 106.6 / 88
p0 1201 ± 0.9228
1240
1230
1220
1210
1200
1190
1180
1170

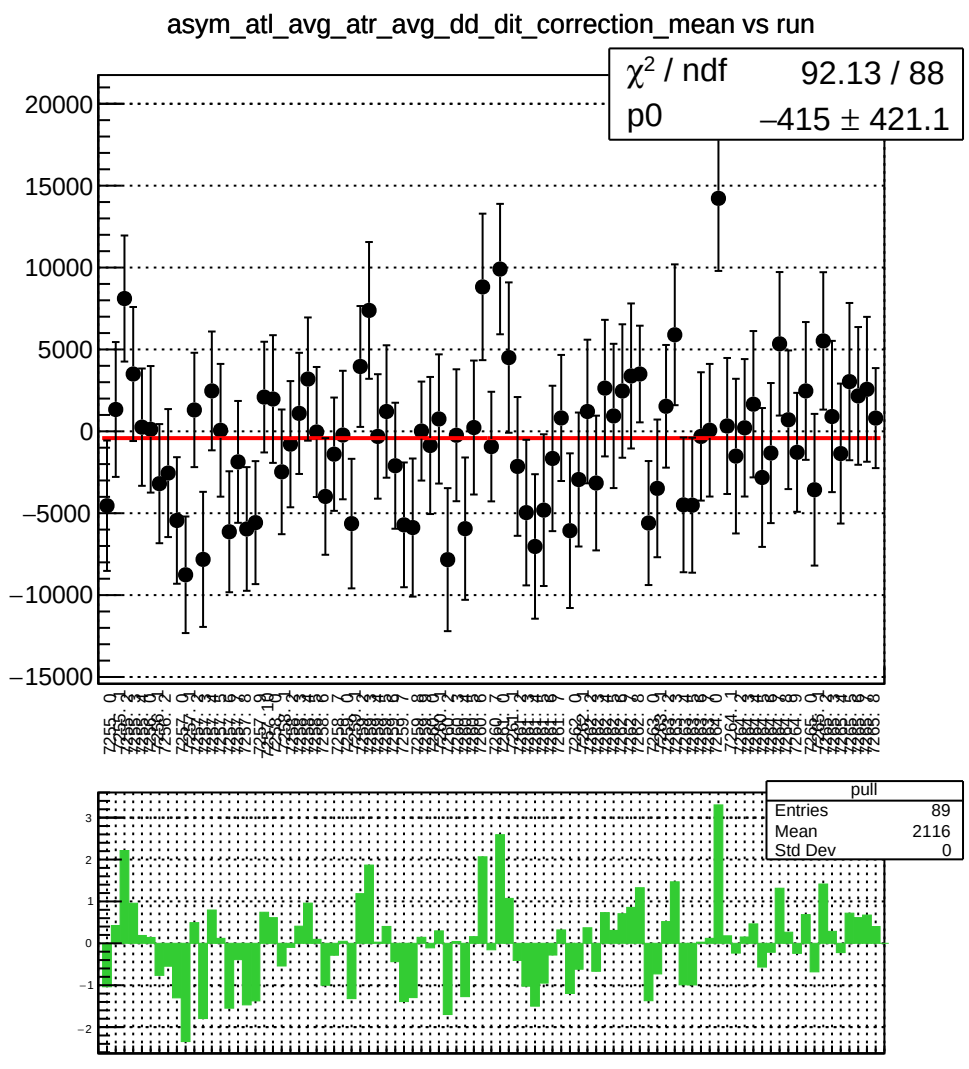

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.08 / 88
p0 −347.3 ± 218.7
15000
10000
5000
0
−5000
pull
Entries 89
Mean 293.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02379
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

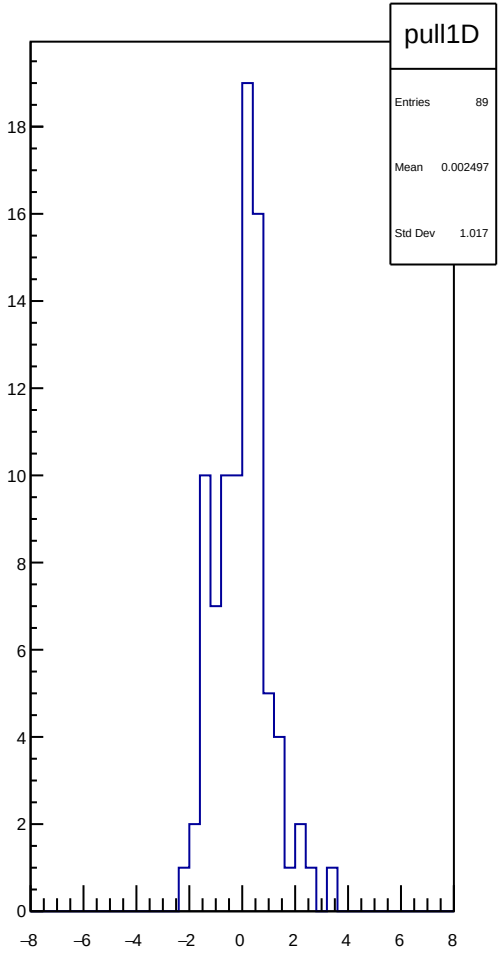

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.012e+05 / 88
p0 195.3 ± 0.1547
350
300
250
200
150

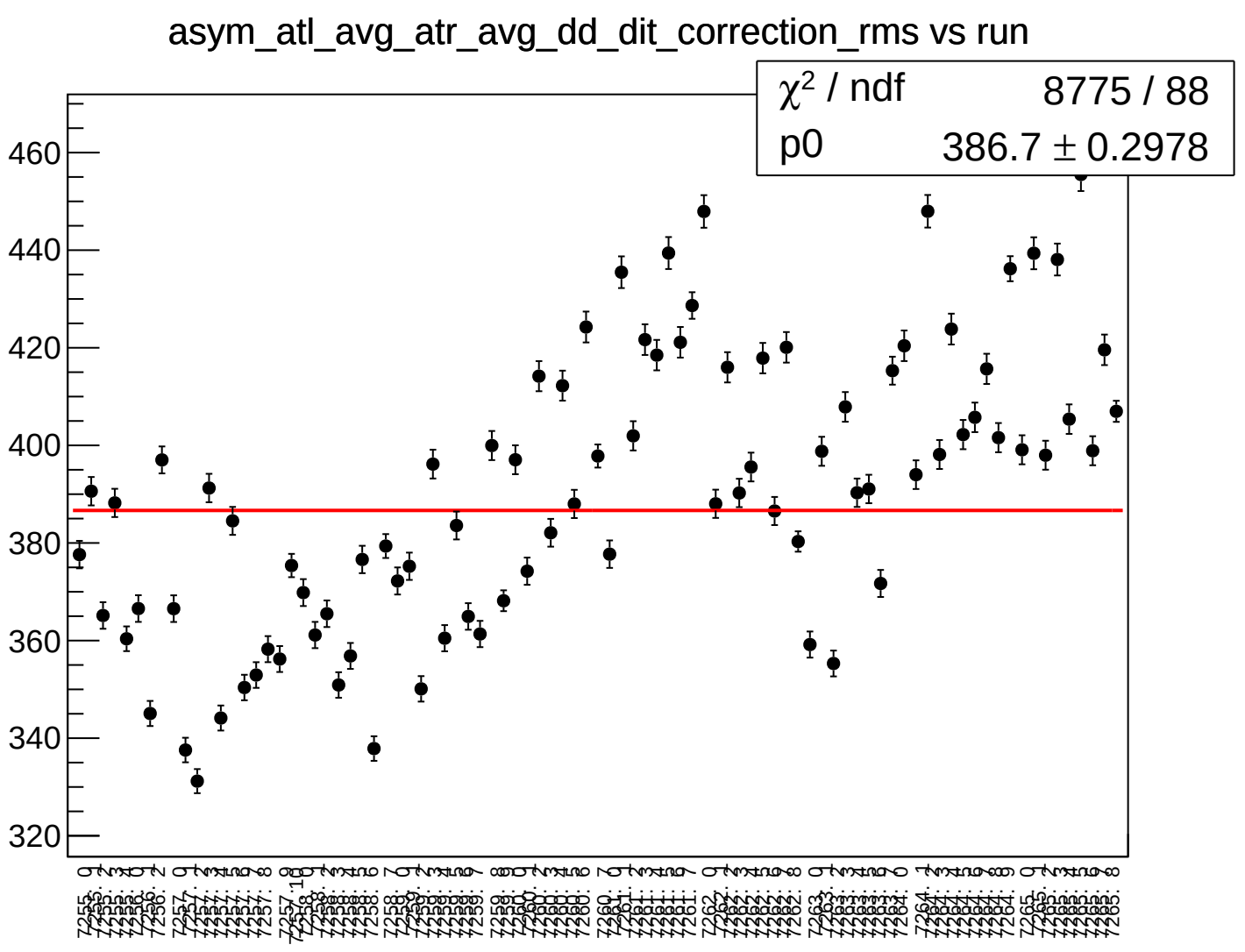

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 69.15 / 88
p0 170 ± 1322
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −120
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

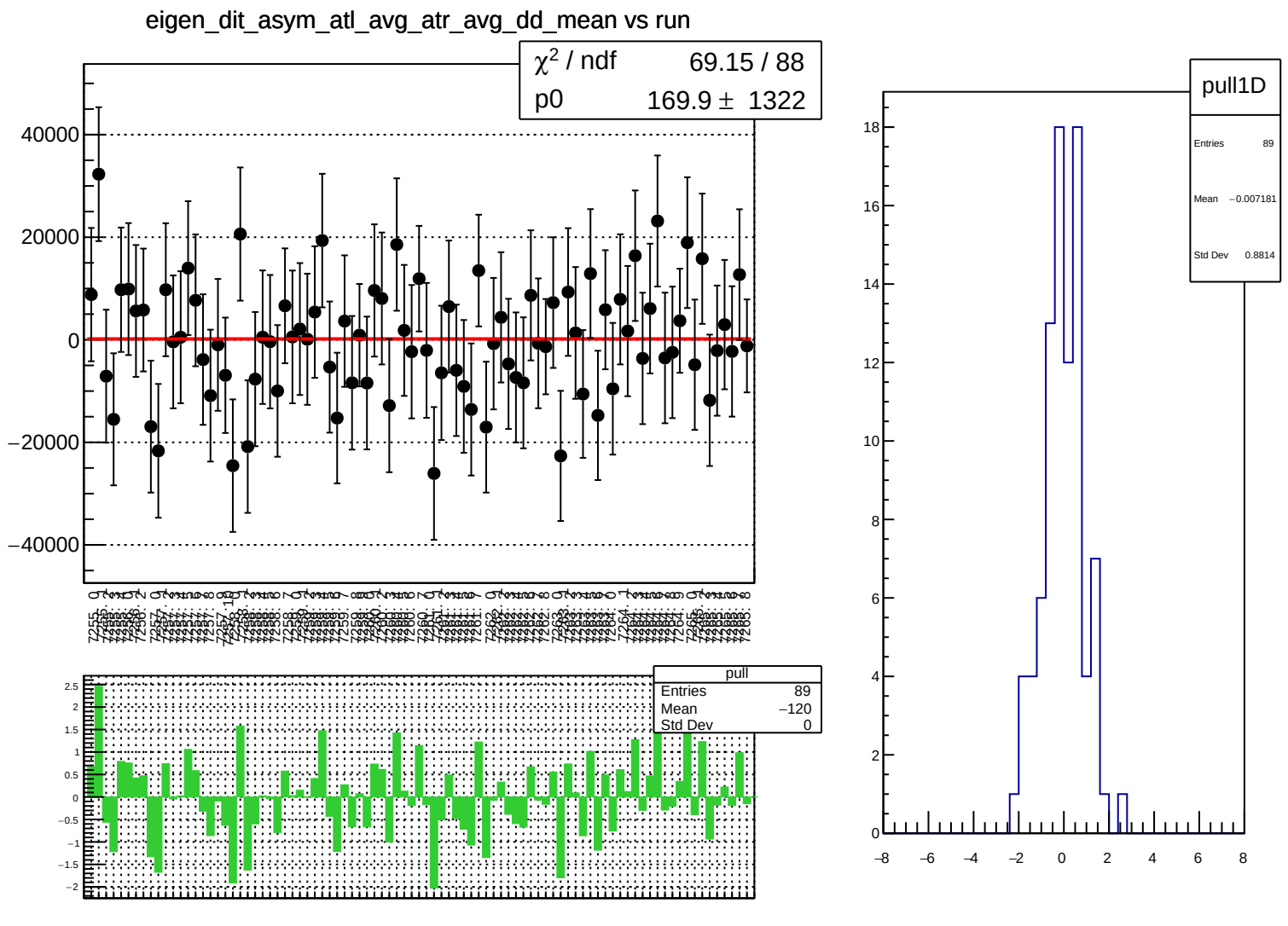

pull1D
Entries 89
Mean −0.007181
Std Dev 0.8814
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

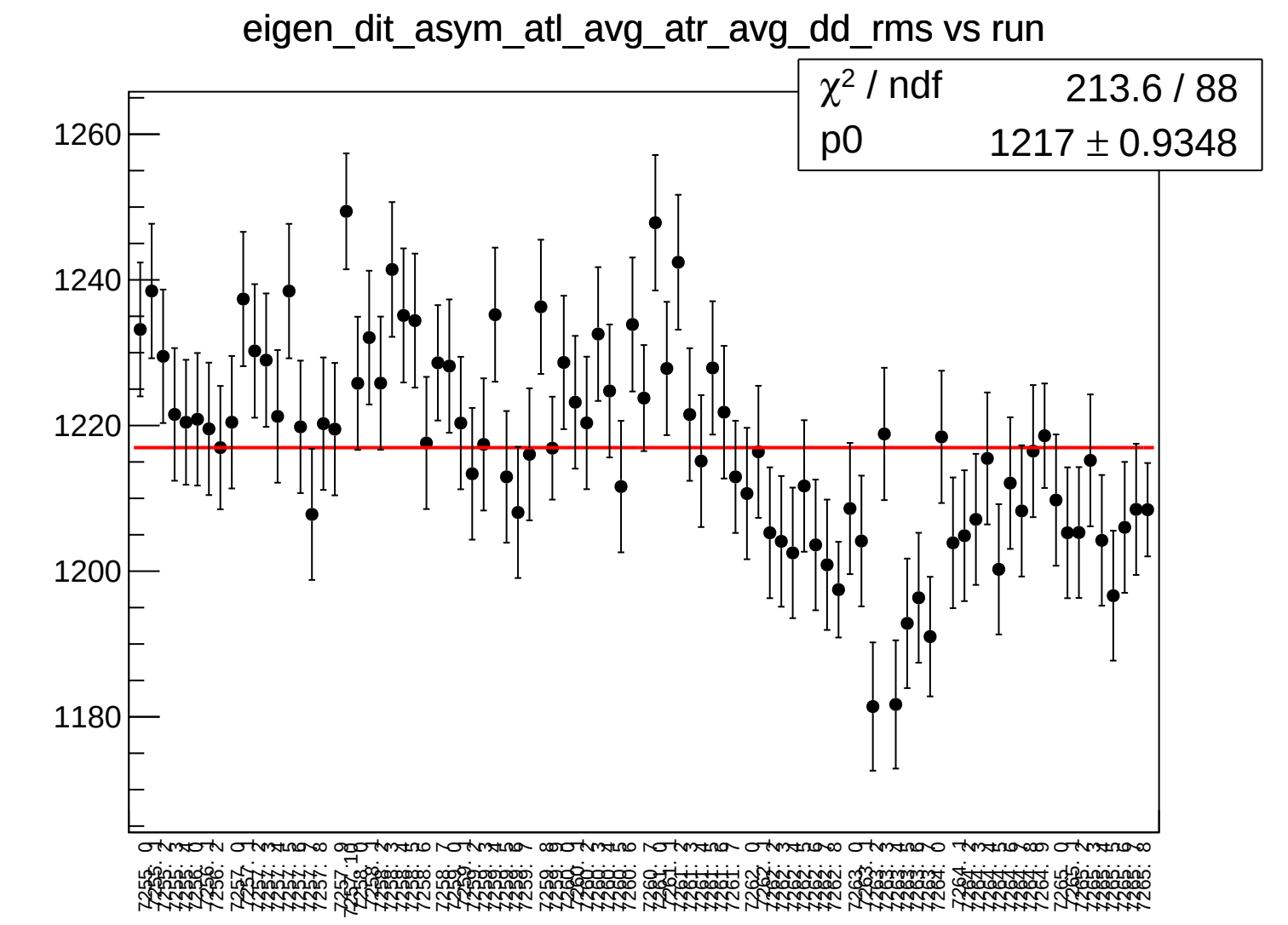

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 213.6 / 88
p0 1217 ± 0.9348
1260
1240
1220
1200
1180

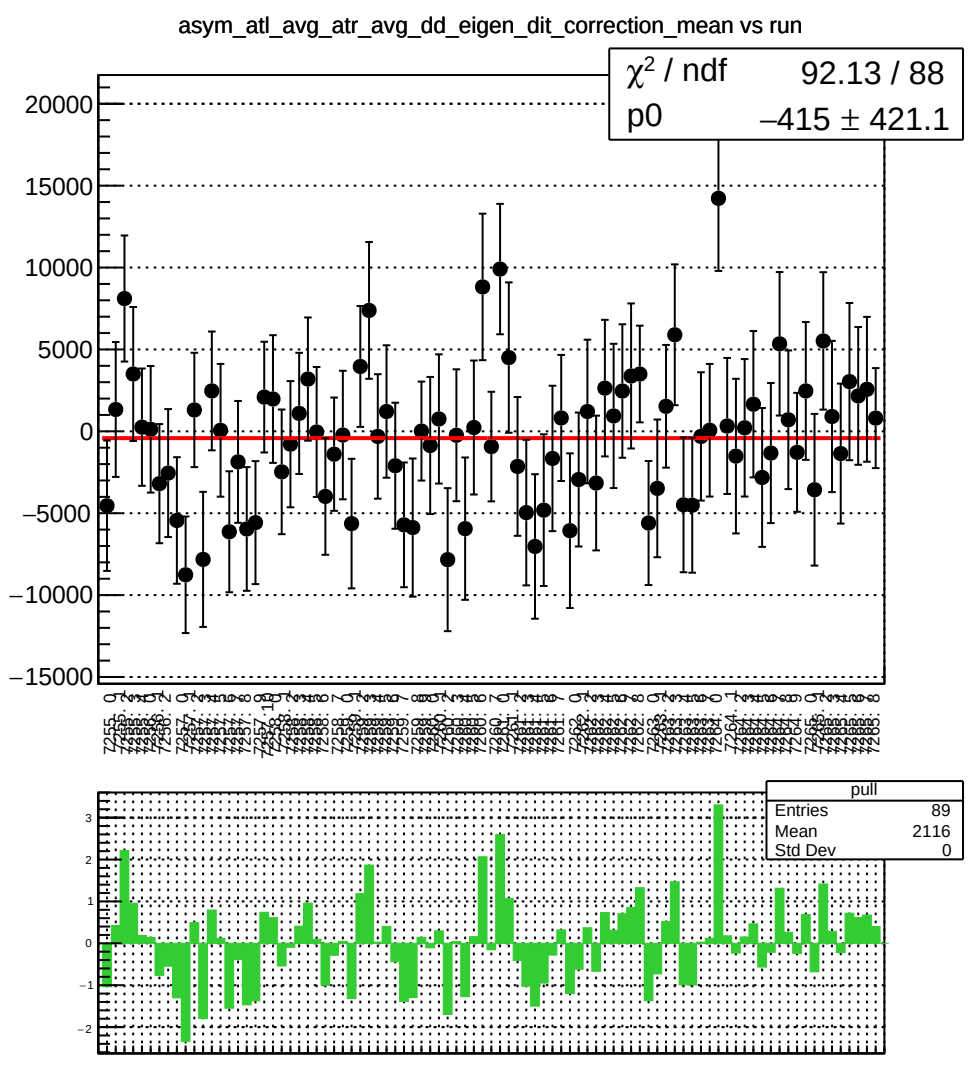

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 92.13 / 88
p0 −415 ± 421.1
pull
Entries 89
Mean 2116
Std Dev 0

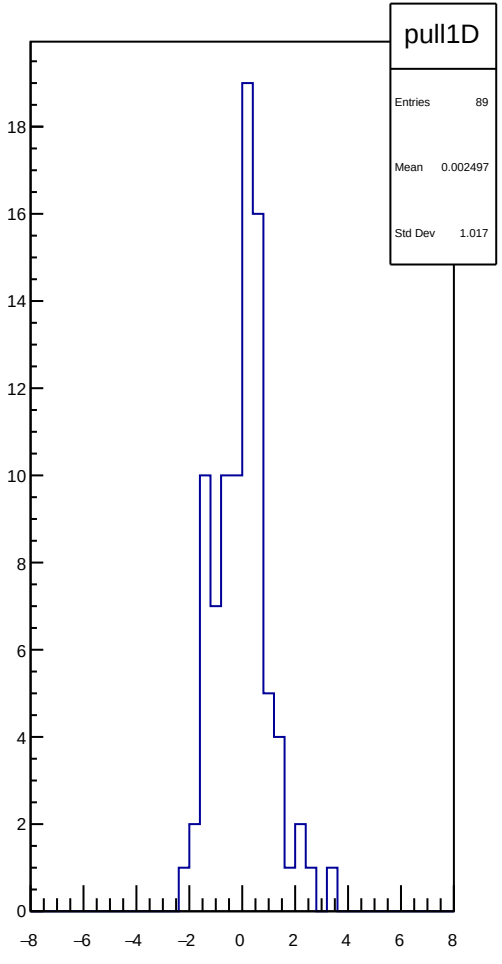

pull1D
Entries 89
Mean 0.002497
Std Dev 1.017

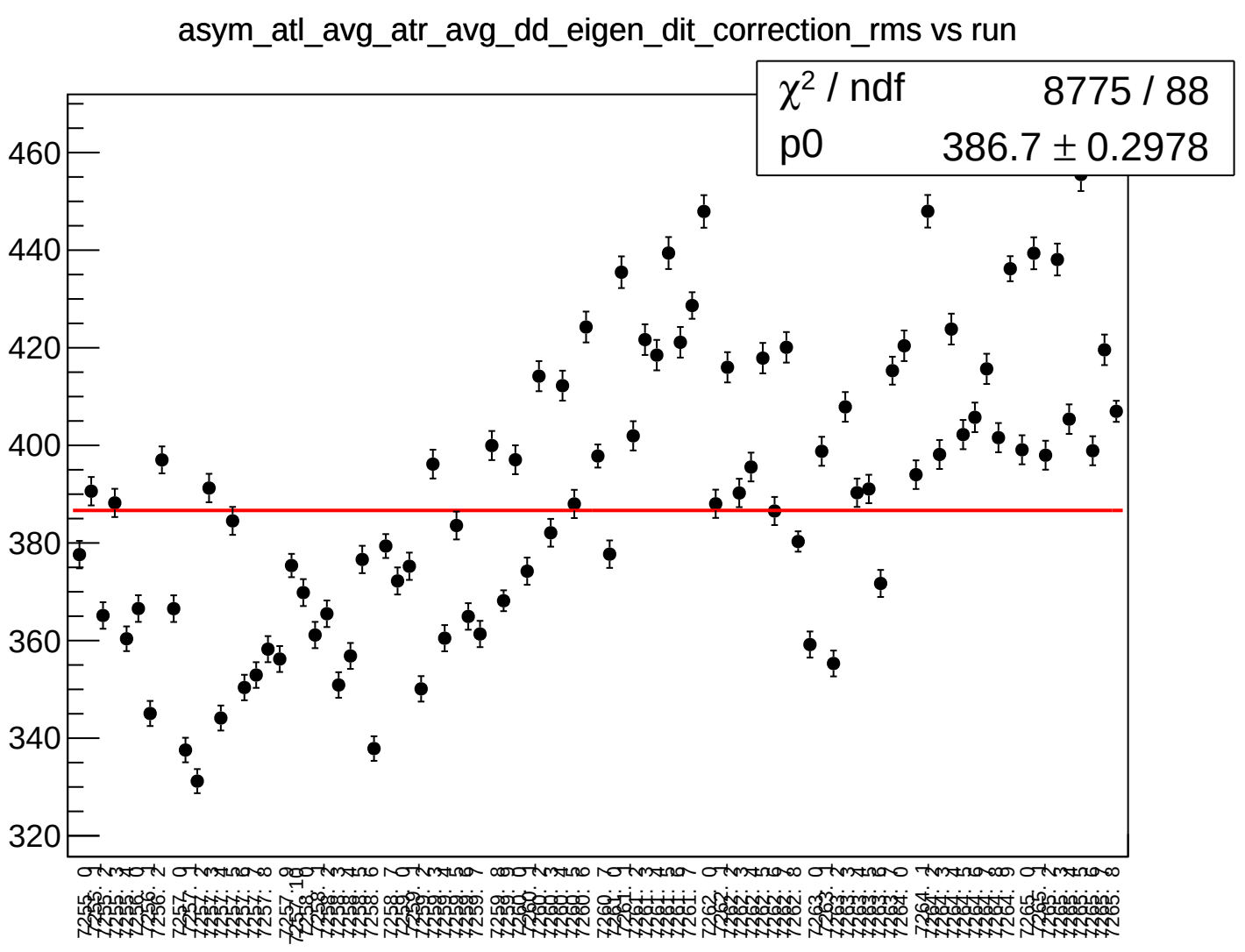

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 8775 / 88
p0 386.7 ± 0.2978
460
440
420
400
380
360
340
320

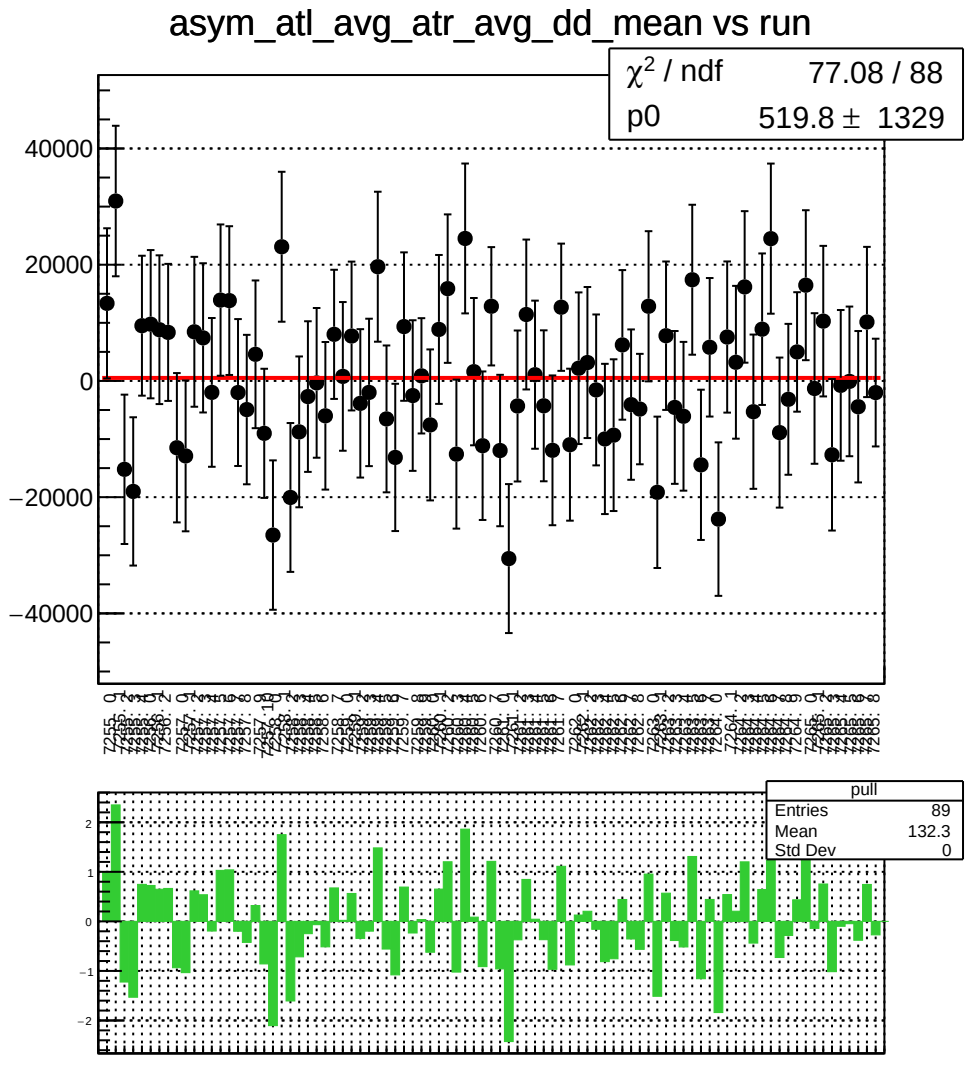

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 69.15 / 88
p0 169.9 ± 1322
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −120
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.007181
Std Dev 0.8814
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

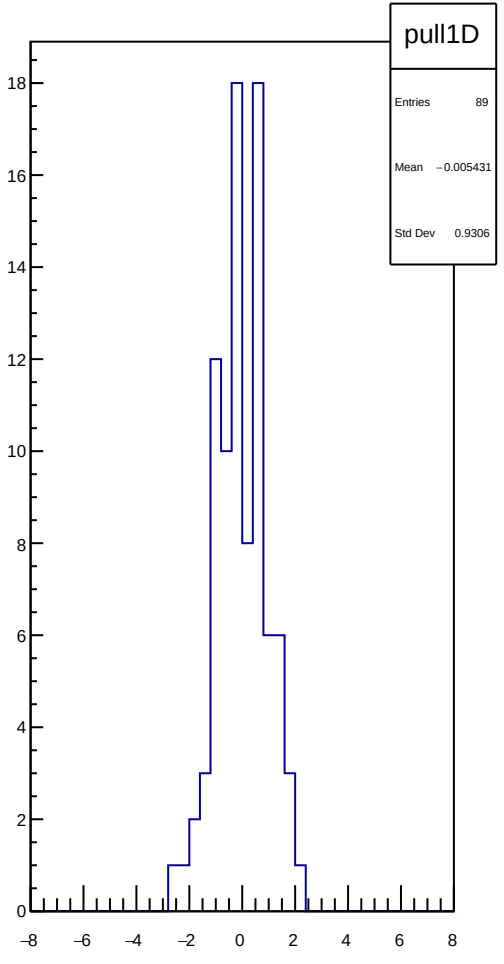

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 213.6 / 88
p0 1217 ± 0.9348
1260
1240
1220
1200
1180

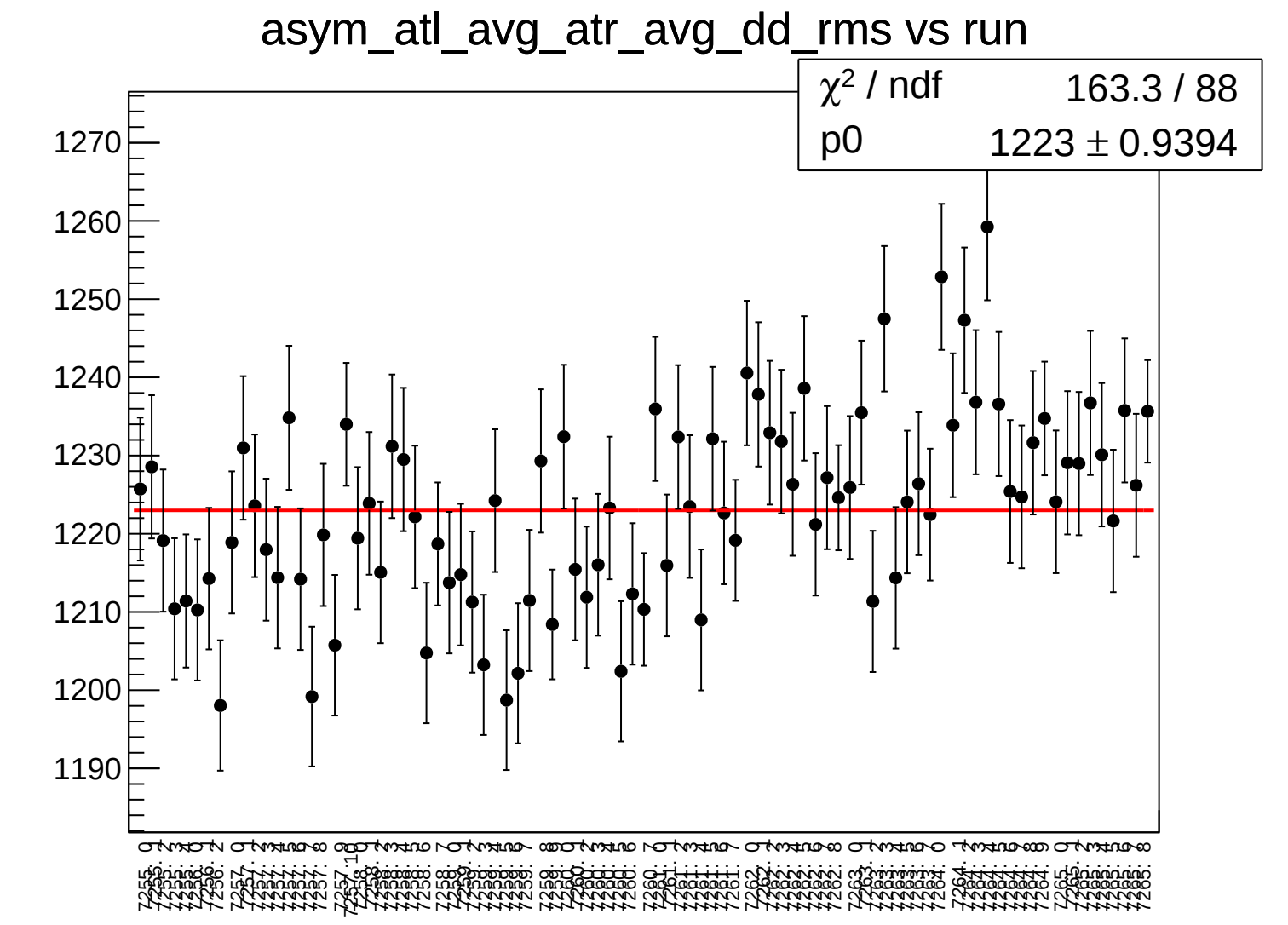

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.13 / 88
p0 −415 ± 421.1
pull
Entries 89
Mean 2116
Std Dev 0

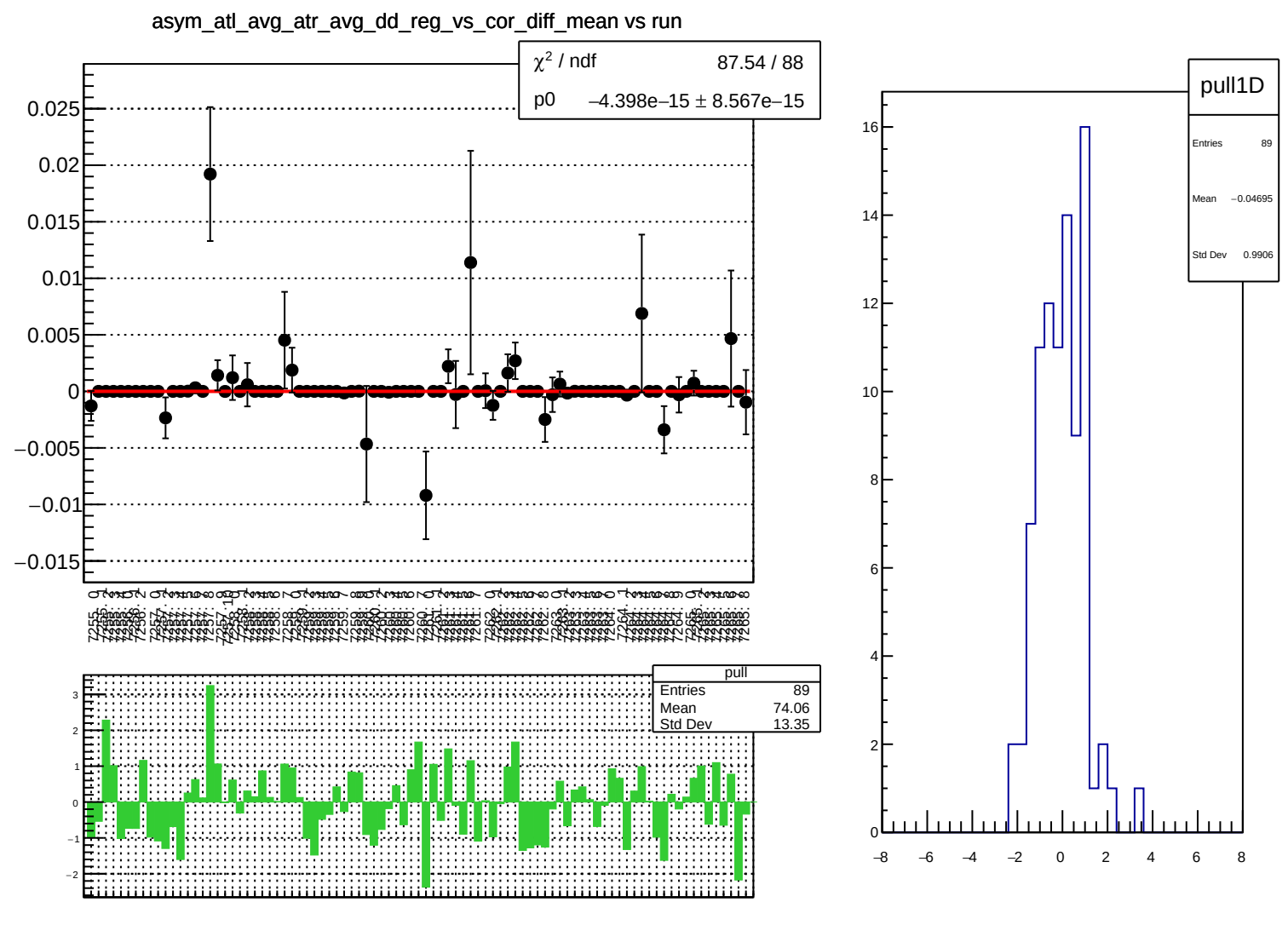

pull1D
Entries 89
Mean 0.002497
Std Dev 1.017

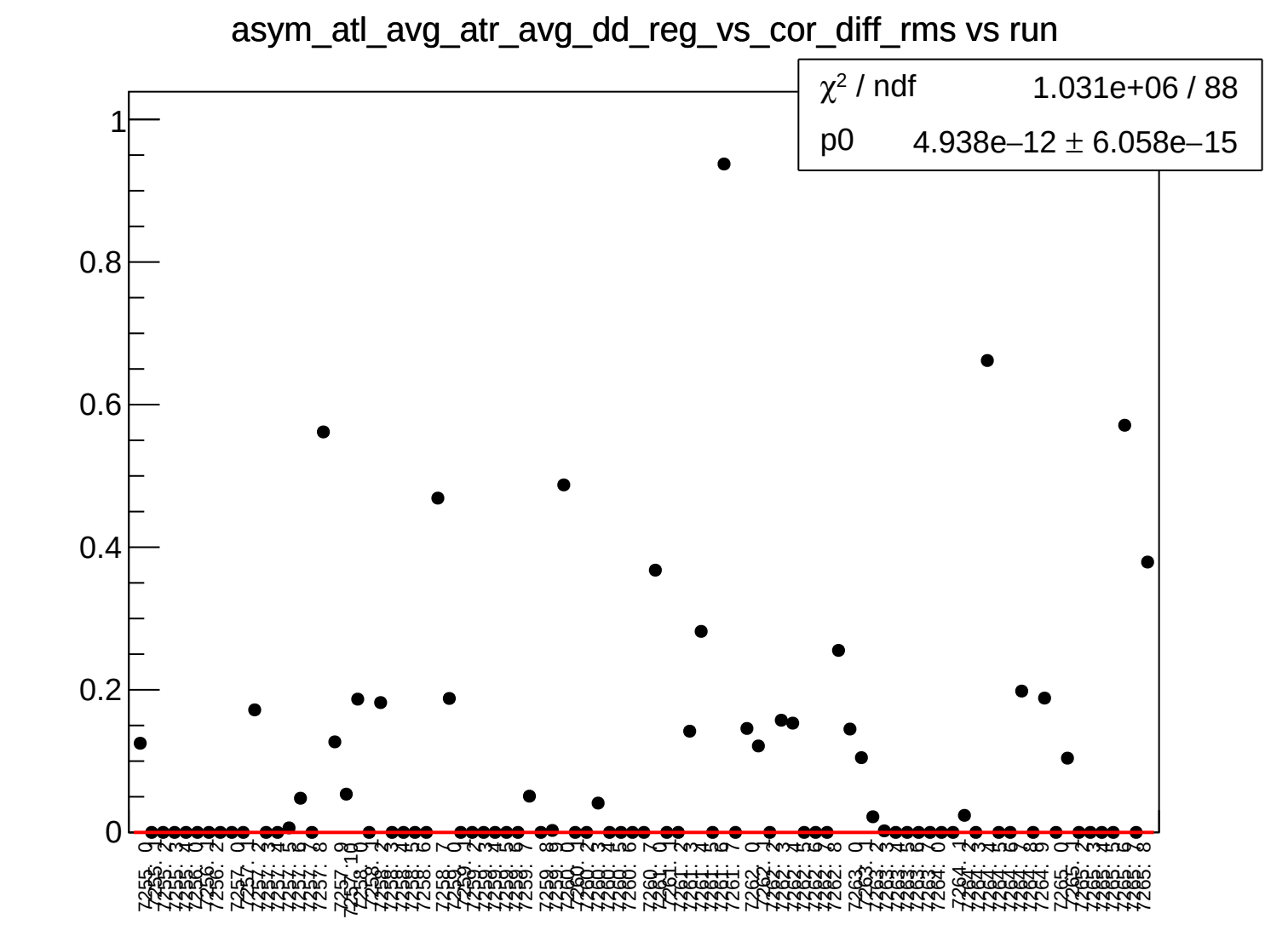

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 8775 / 88
p0 386.7 ± 0.2978
460
440
420
400
380
360
340
320

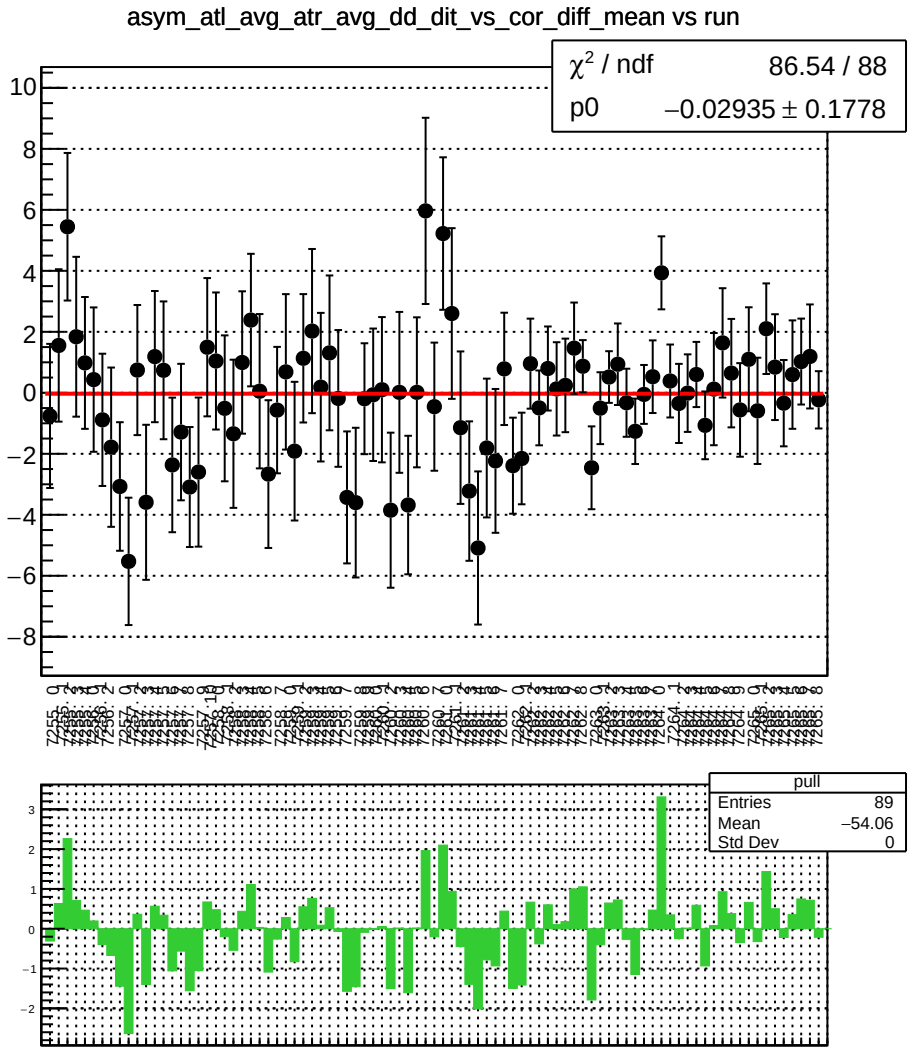

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 77.08 / 88
p0 519.8 ± 1329
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 132.3
Std Dev 0
2
1
0
−1
−2

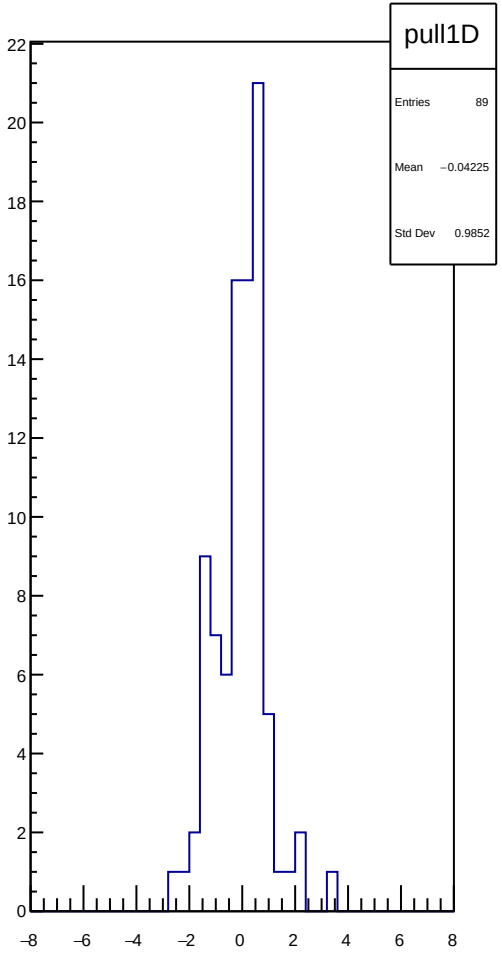

pull1D
Entries 89
Mean −0.005431
Std Dev 0.9306
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

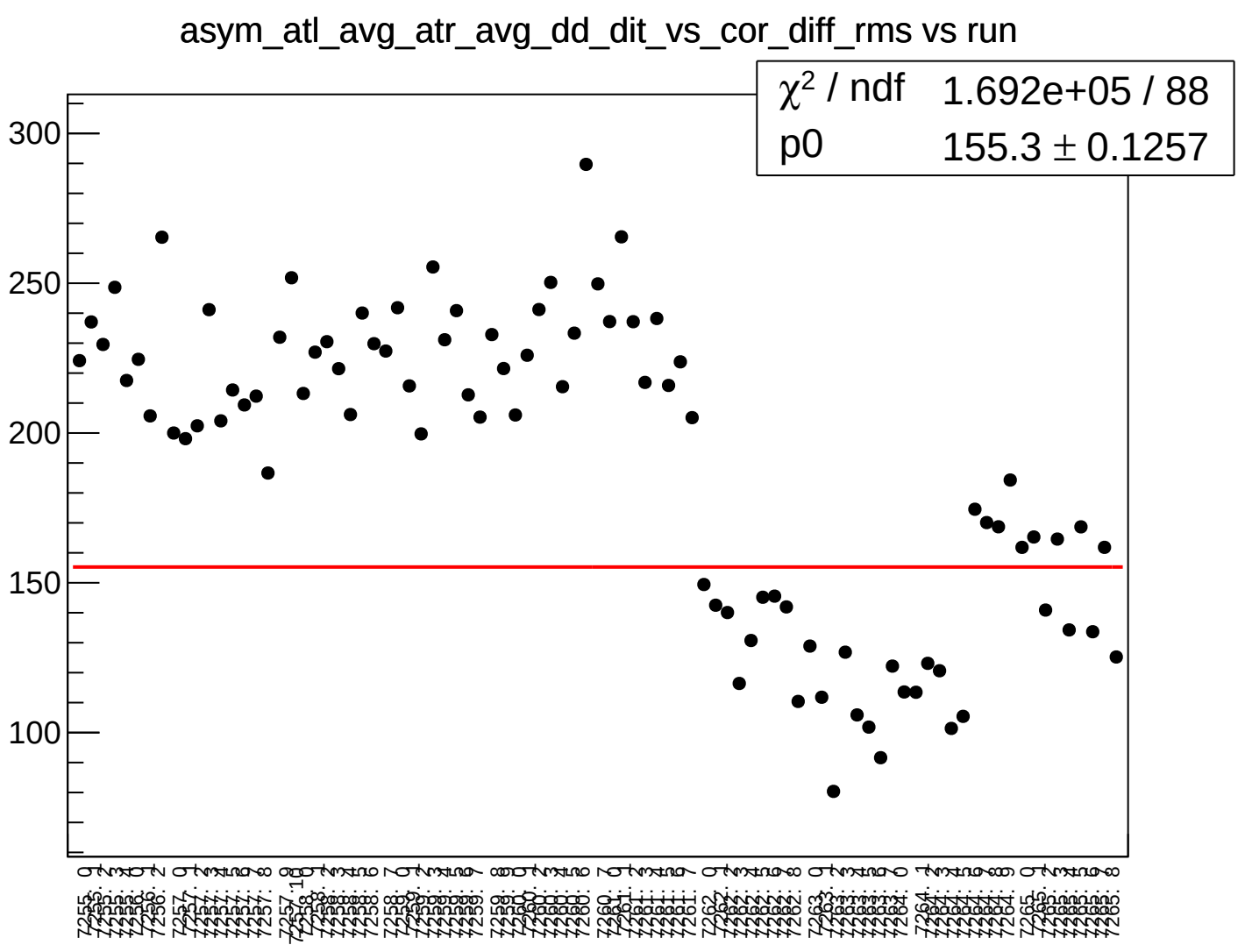

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 163.3 / 88
p0 1223 ± 0.9394
1270
1260
1250
1240
1230
1220
1210
1200
1190

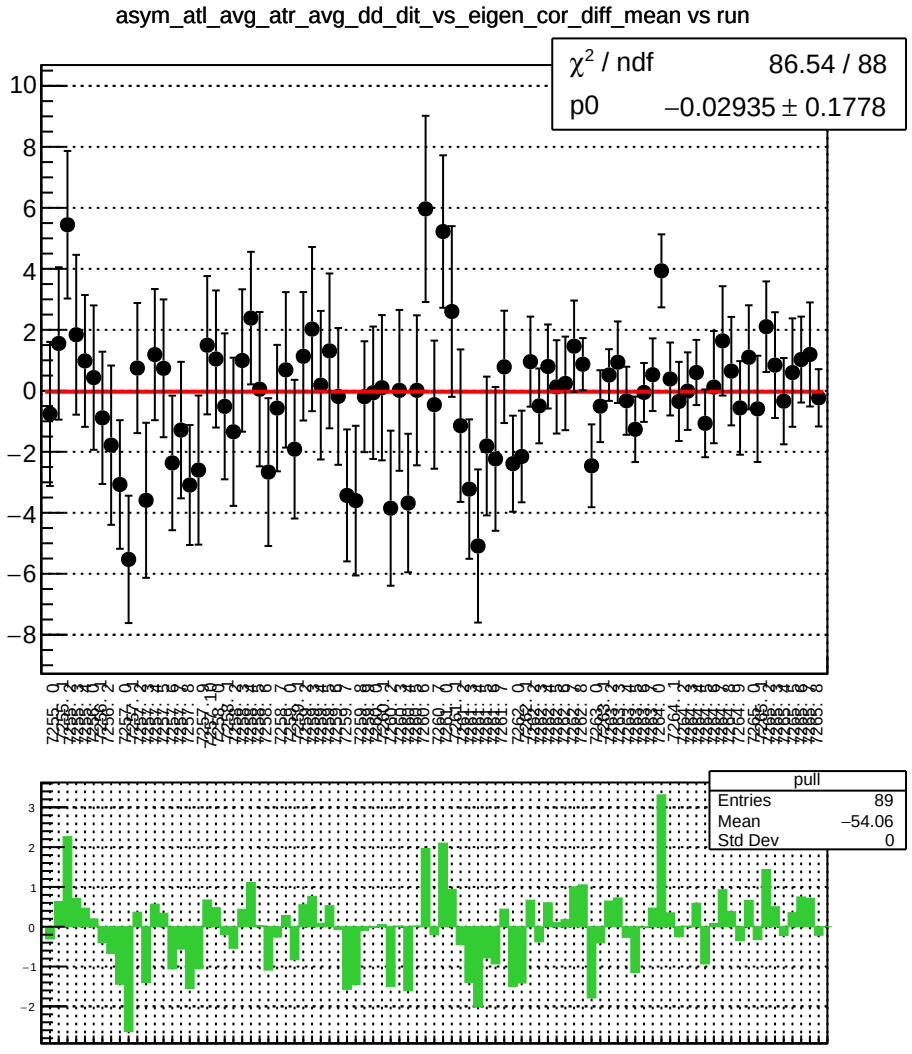

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.54 / 88
p0 −4.398e−15 ± 8.567e−15
pull
Entries 89
Mean 74.06
Std Dev 13.35
pull1D
Entries 89
Mean −0.04695
Std Dev 0.9906

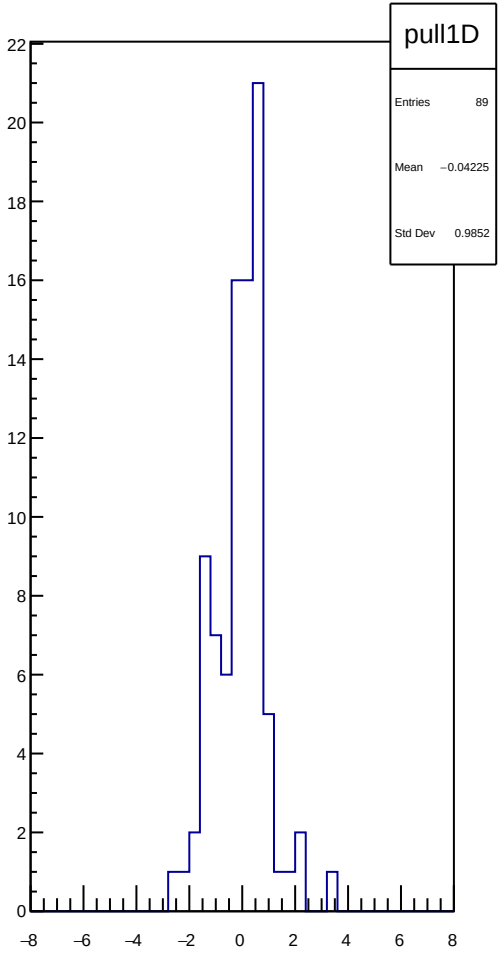

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.031e+06 / 88
p0 4.938e−12 ± 6.058e−15
1
0.8
0.6
0.4
0.2
0

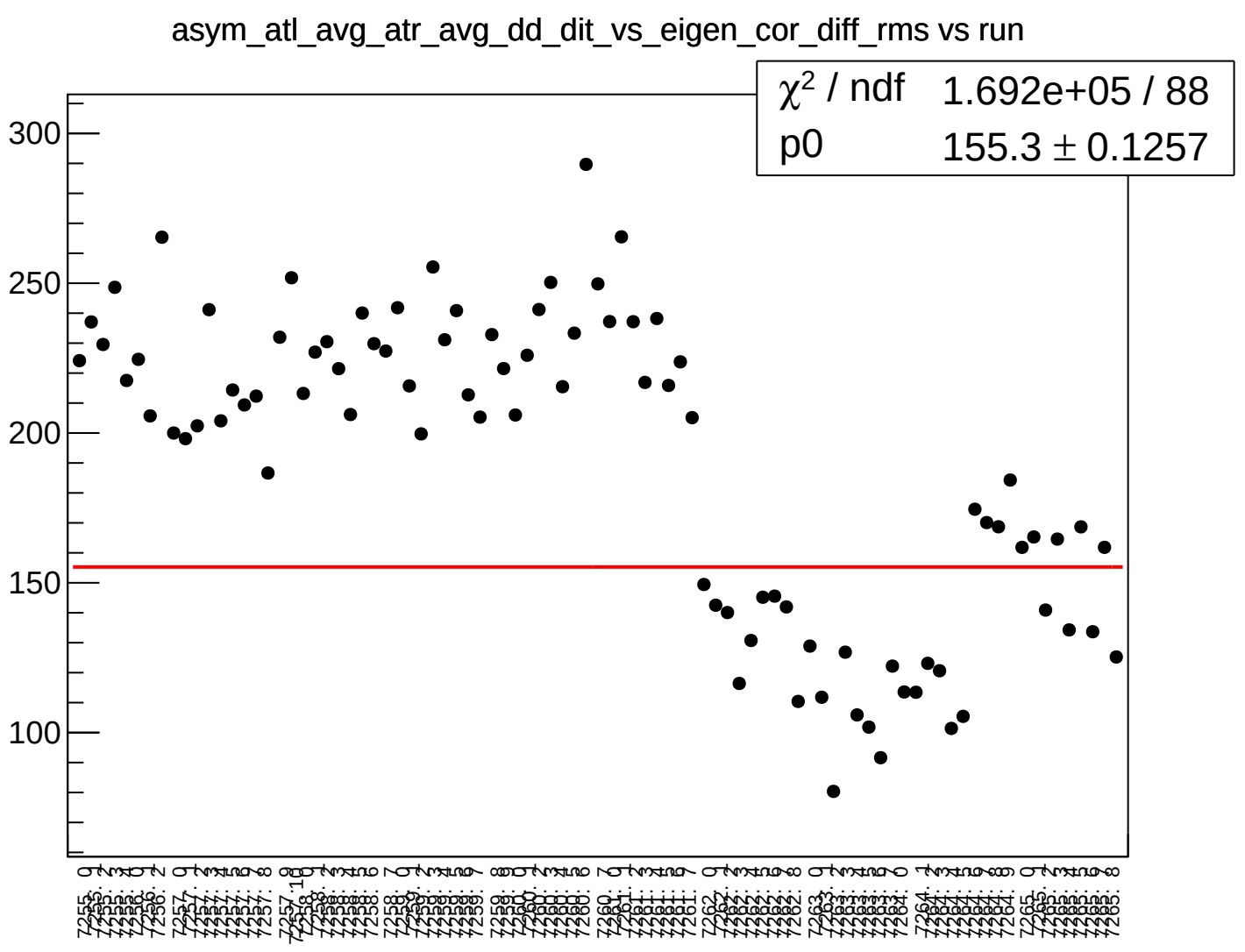

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.54 / 88
p0 −0.02935 ± 0.1778
pull
Entries 89
Mean −54.06
Std Dev 0

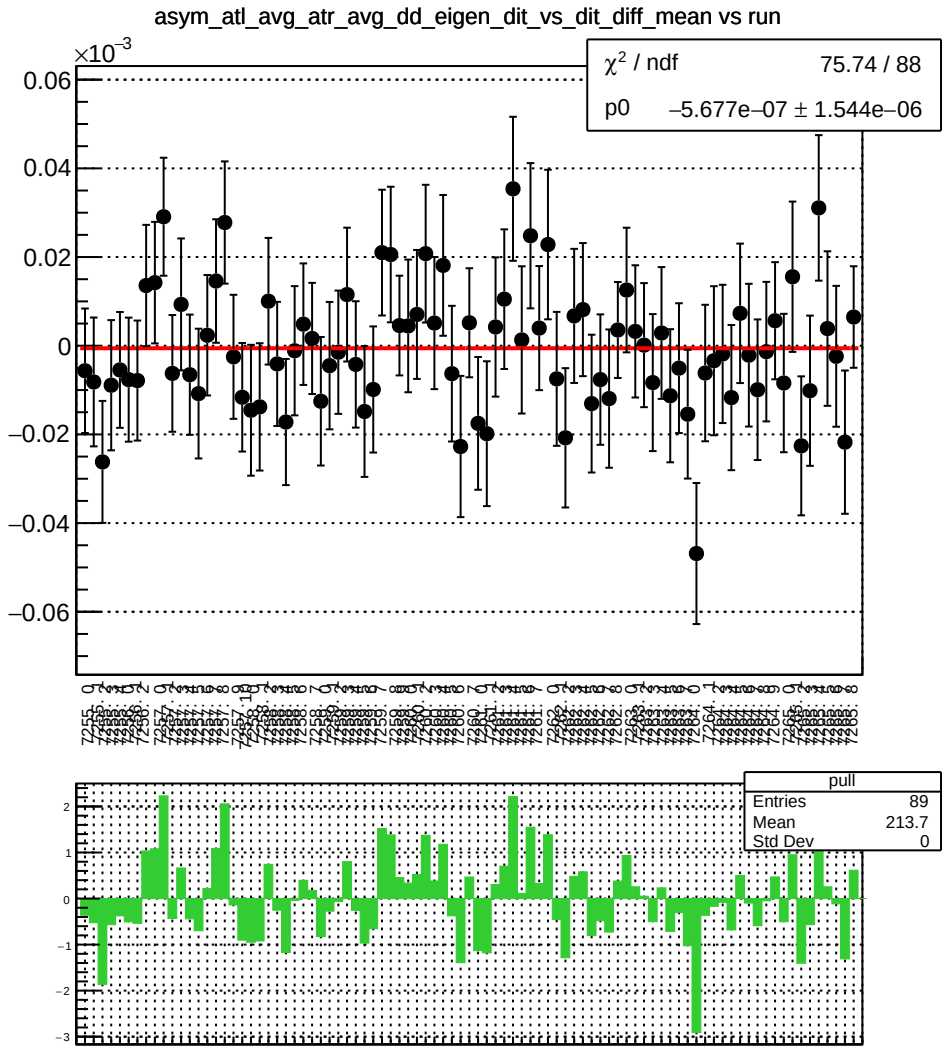

pull1D
Entries 89
Mean −0.04225
Std Dev 0.9852

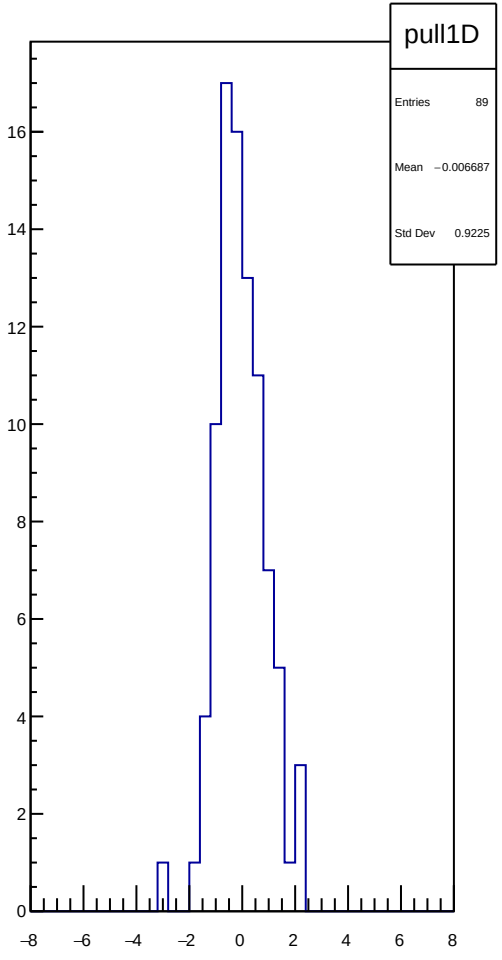

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.692e+05 / 88
p0 155.3 ± 0.1257
300
250
200
150
100

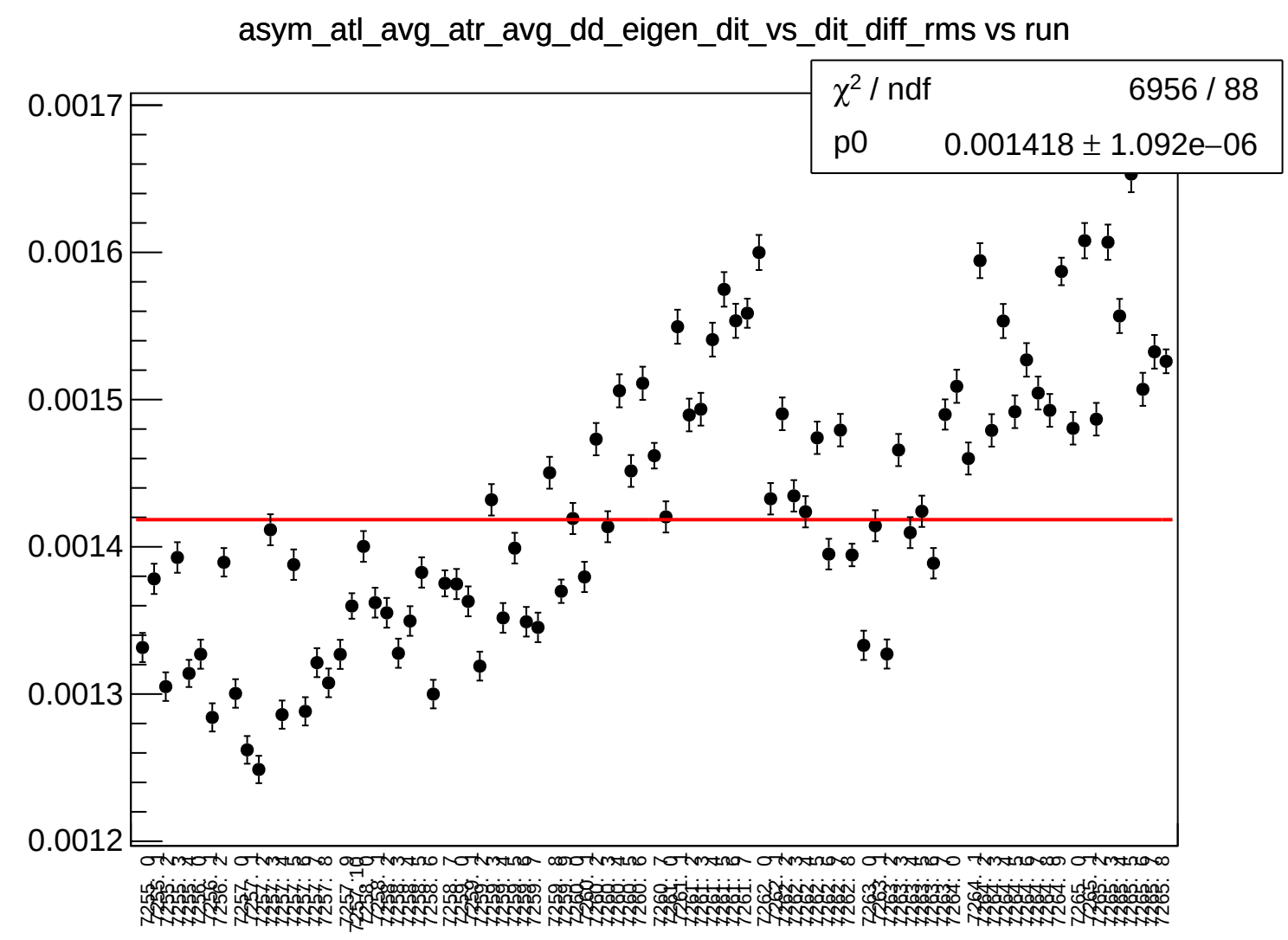

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.54 / 88
p0 −0.02935 ± 0.1778
pull
Entries 89
Mean −54.06
Std Dev 0

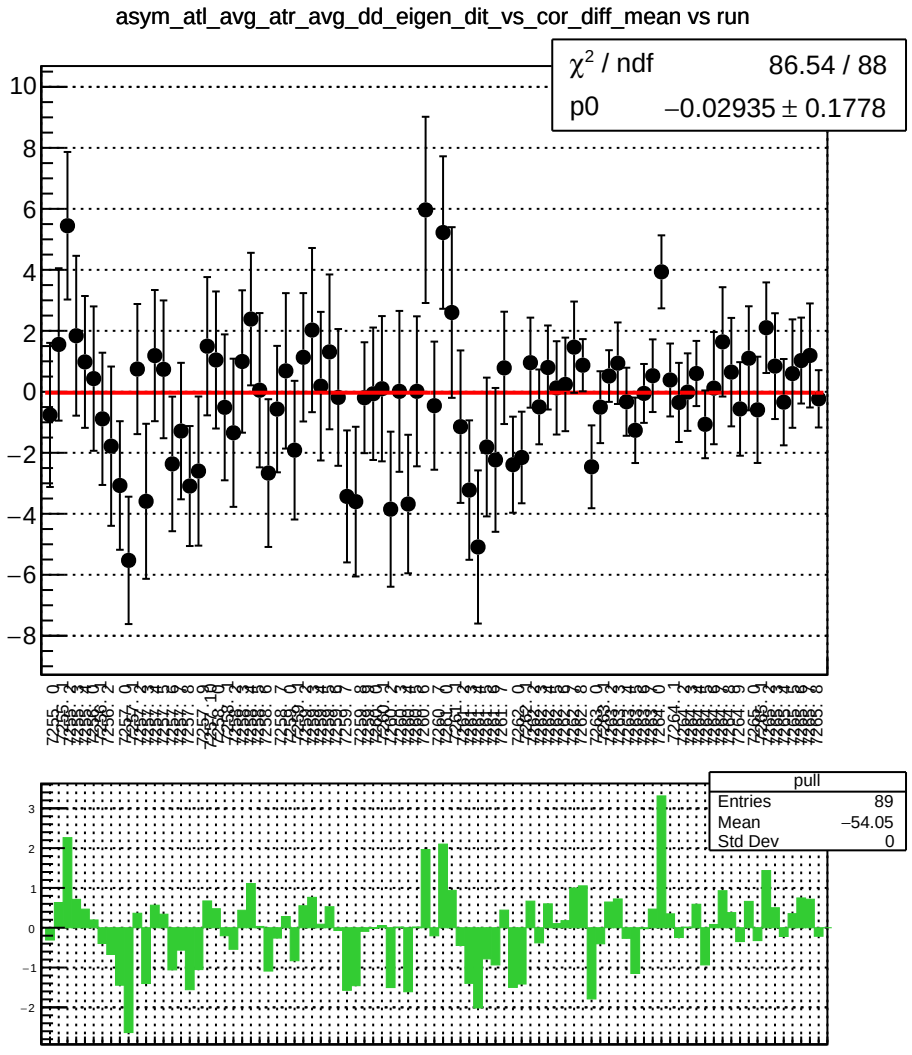

pull1D
Entries 89
Mean −0.04225
Std Dev 0.9852

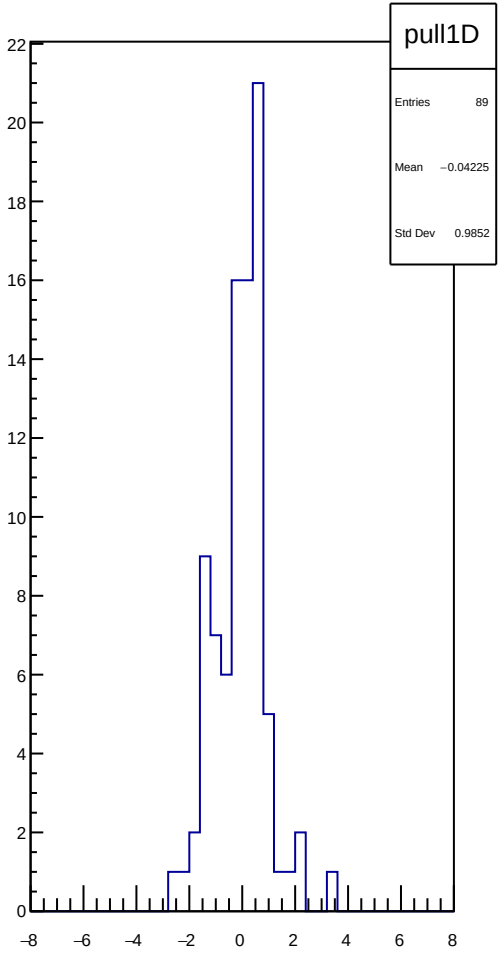

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.692e+05 / 88
p0 155.3 ± 0.1257
300
250
200
150
100

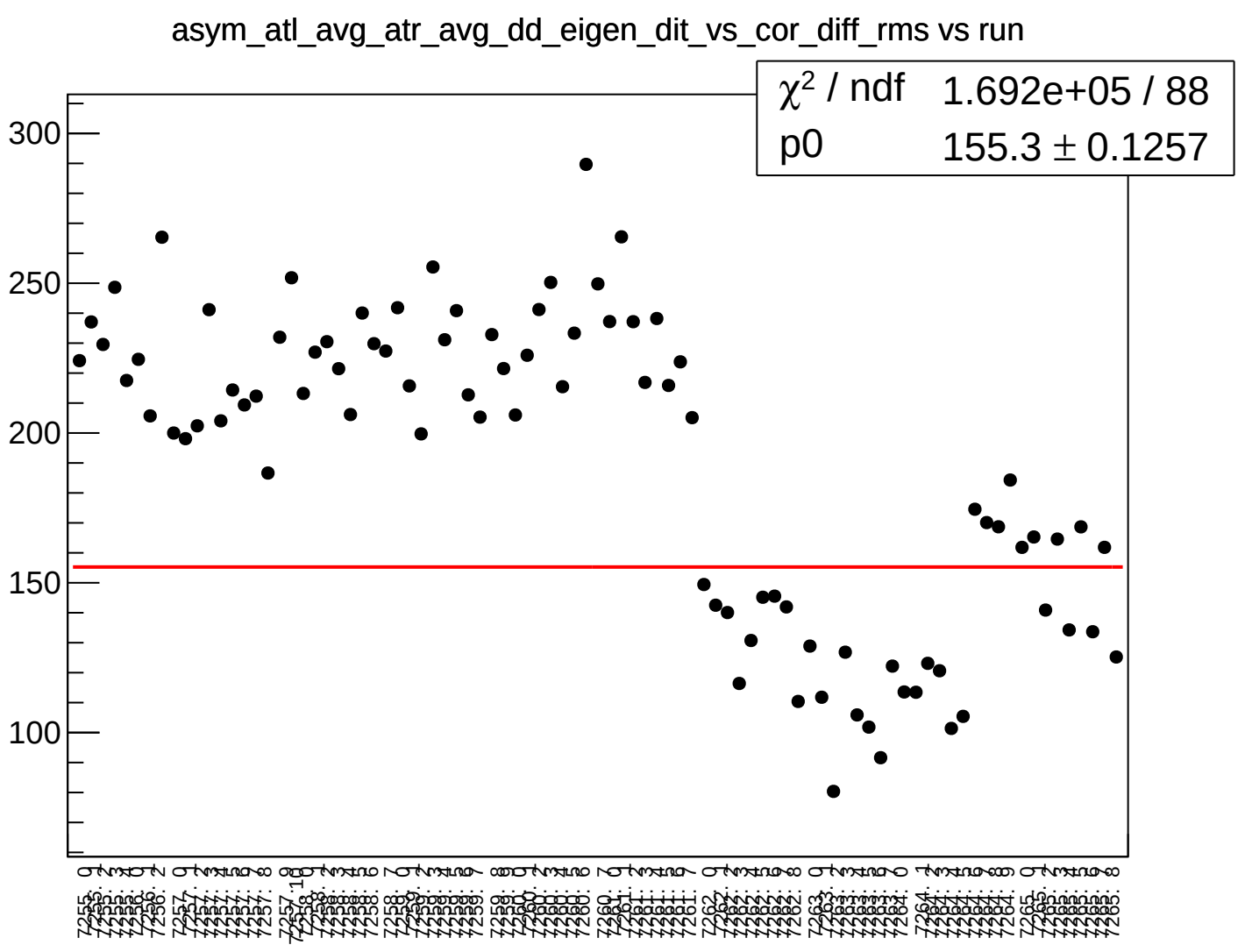

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.74 / 88
p0 −5.677e−07 ± 1.544e−06
pull
Entries 89
Mean 213.7
Std Dev 0

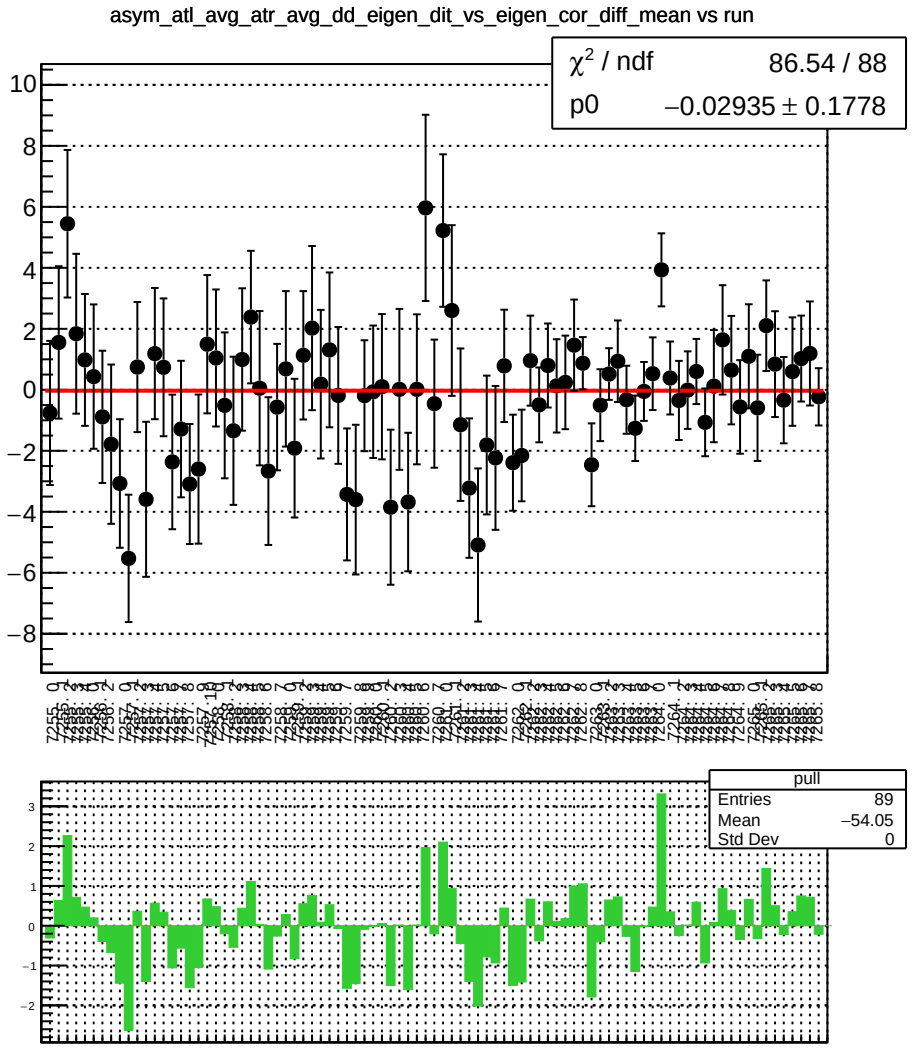

pull1D
Entries 89
Mean −0.006687
Std Dev 0.9225

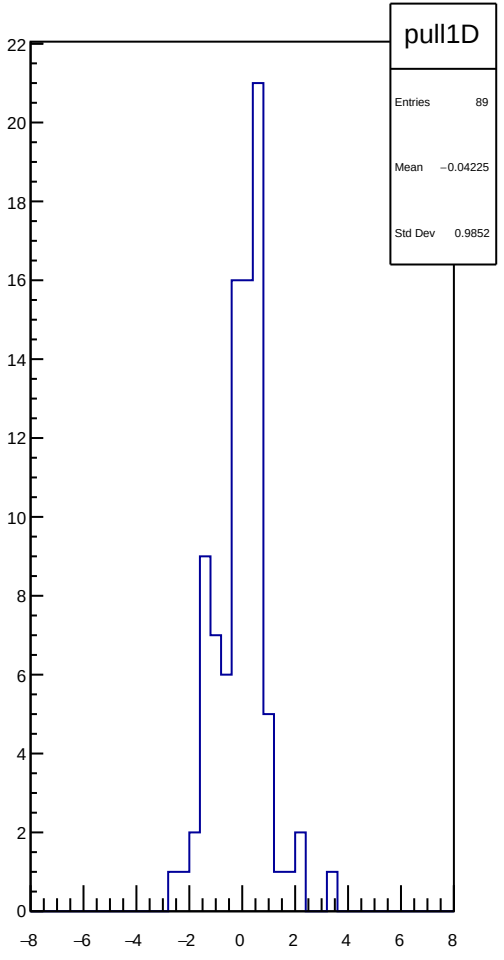

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6956 / 88
p0 0.001418 ± 1.092e−06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

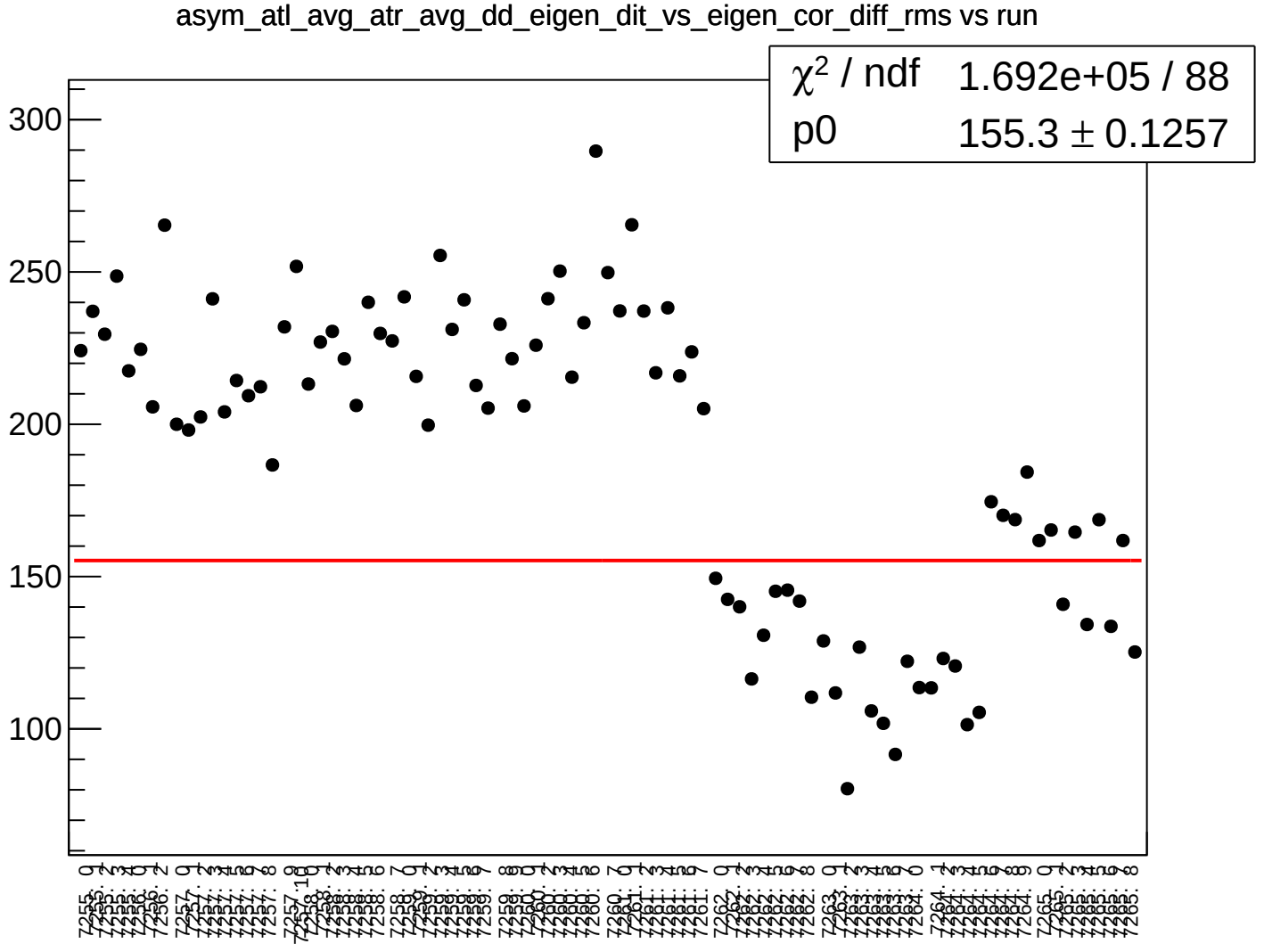

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.54 / 88
p0 −0.02935 ± 0.1778
pull
Entries 89
Mean −54.05
Std Dev 0

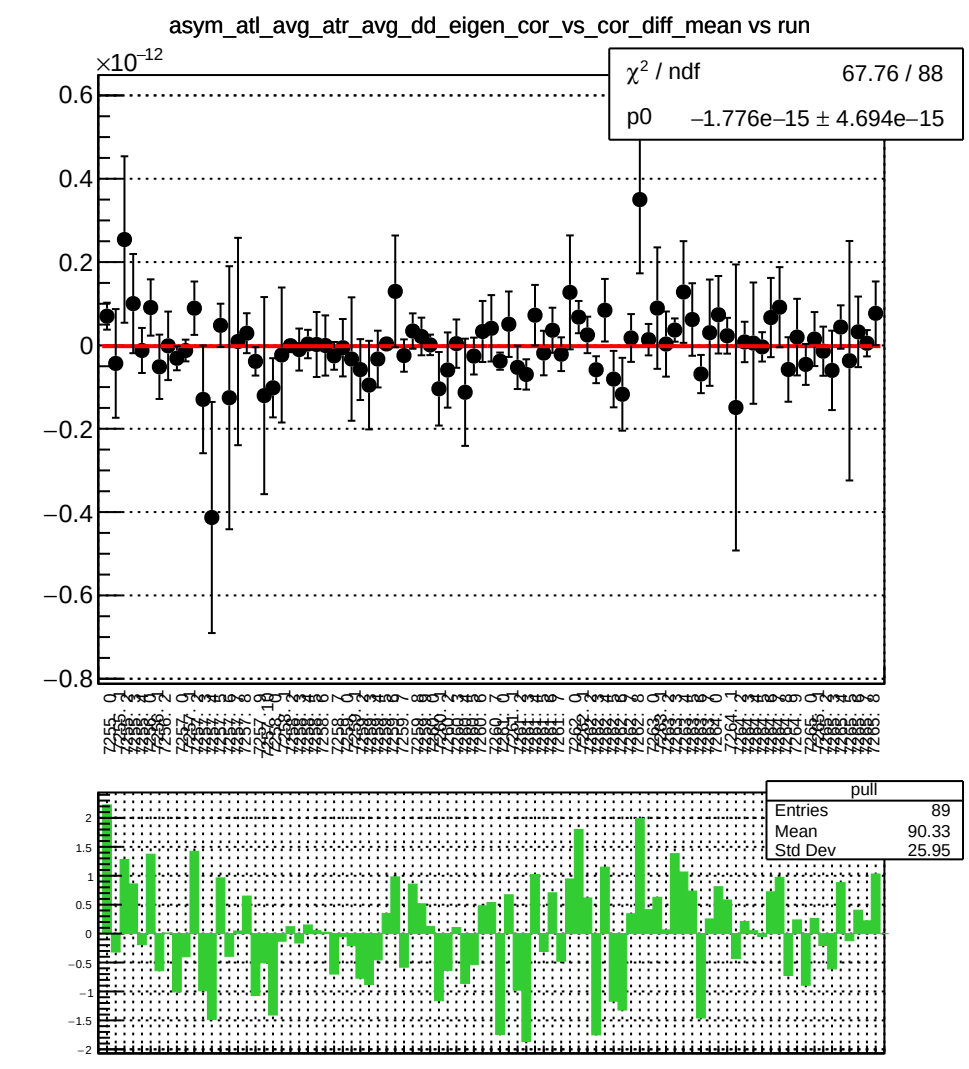

pull1D
Entries 89
Mean −0.04225
Std Dev 0.9852

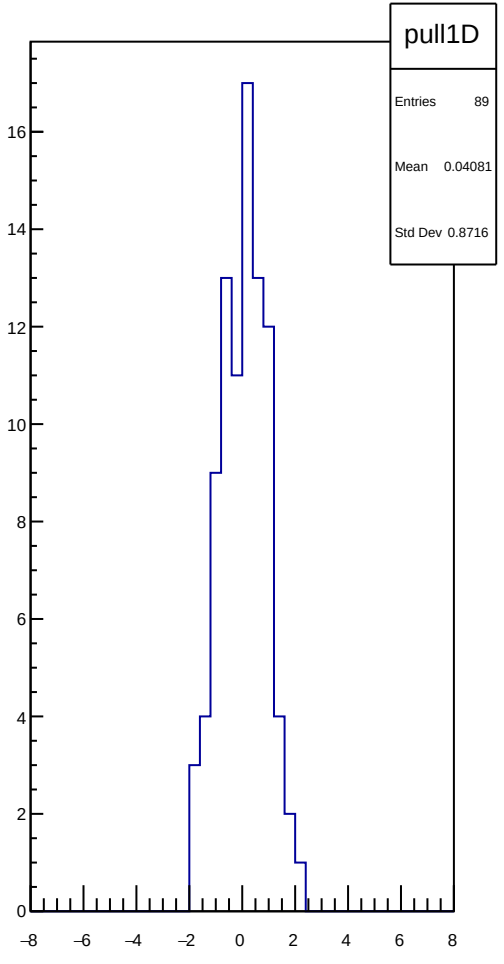

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.692e+05 / 88
p0 155.3 ± 0.1257
300
250
200
150
100

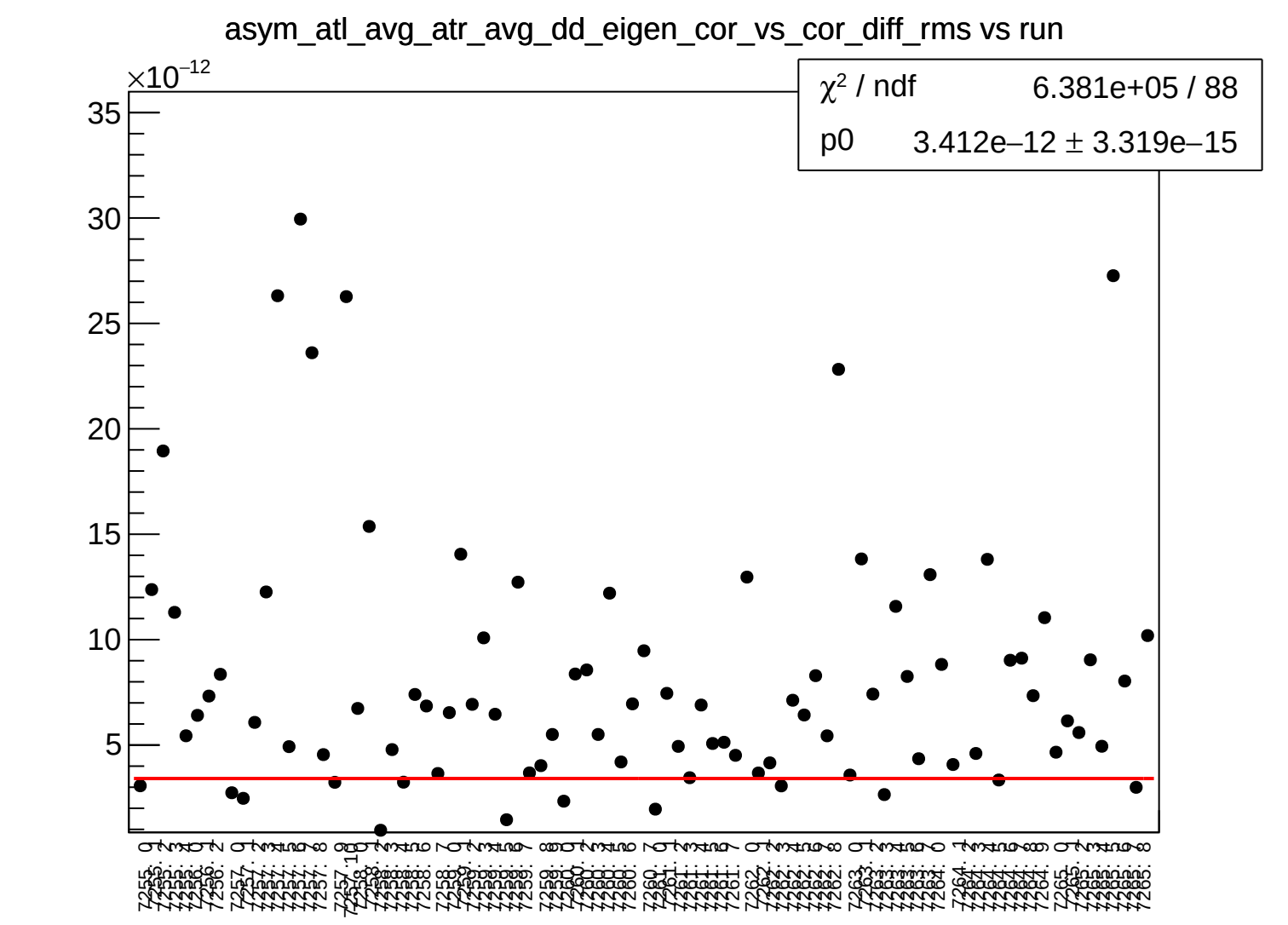

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.54 / 88
p0 −0.02935 ± 0.1778
pull
Entries 89
Mean −54.05
Std Dev 0

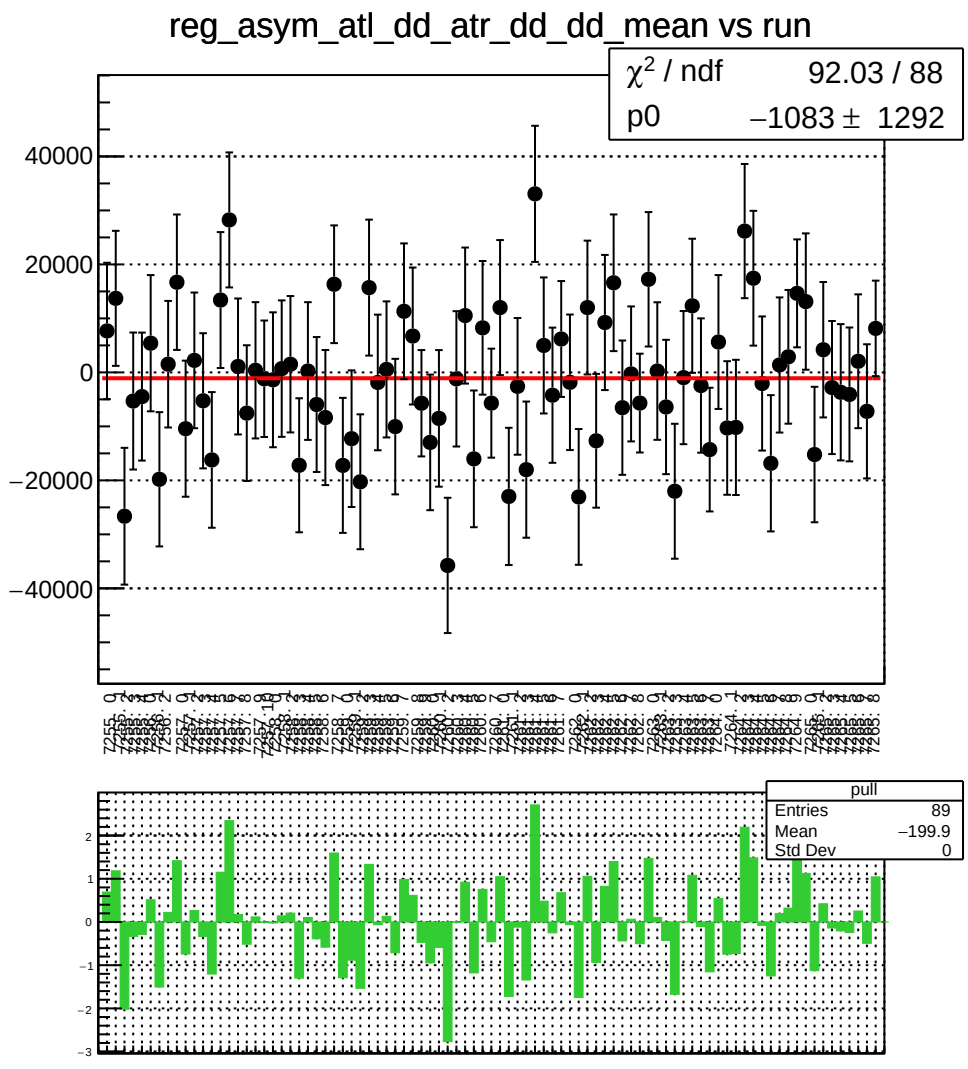

pull1D
Entries 89
Mean −0.04225
Std Dev 0.9852

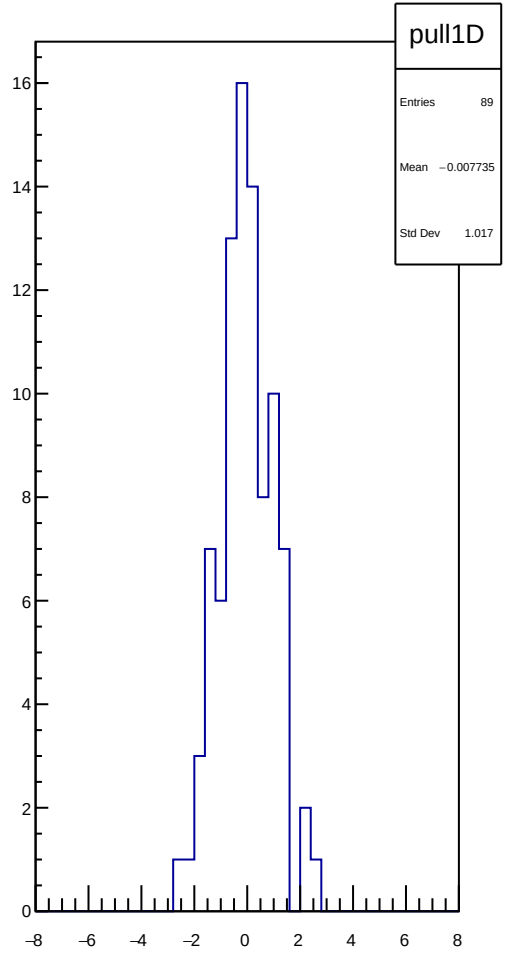

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.692e+05 / 88
p0 155.3 ± 0.1257
300
250
200
150
100

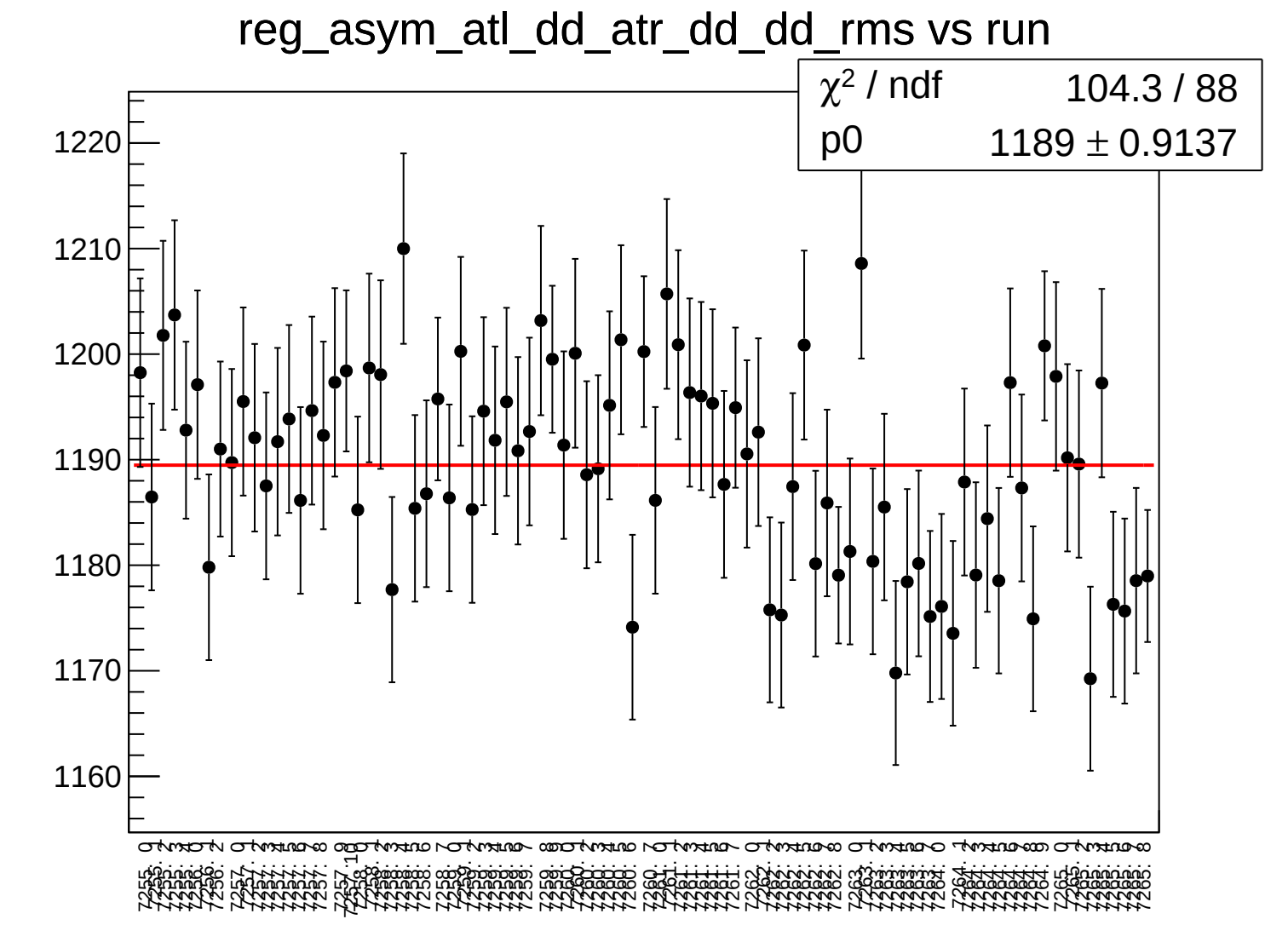

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.76 / 88
p0 −1.776e−15 ± 4.694e−15
pull
Entries 89
Mean 90.33
Std Dev 25.95

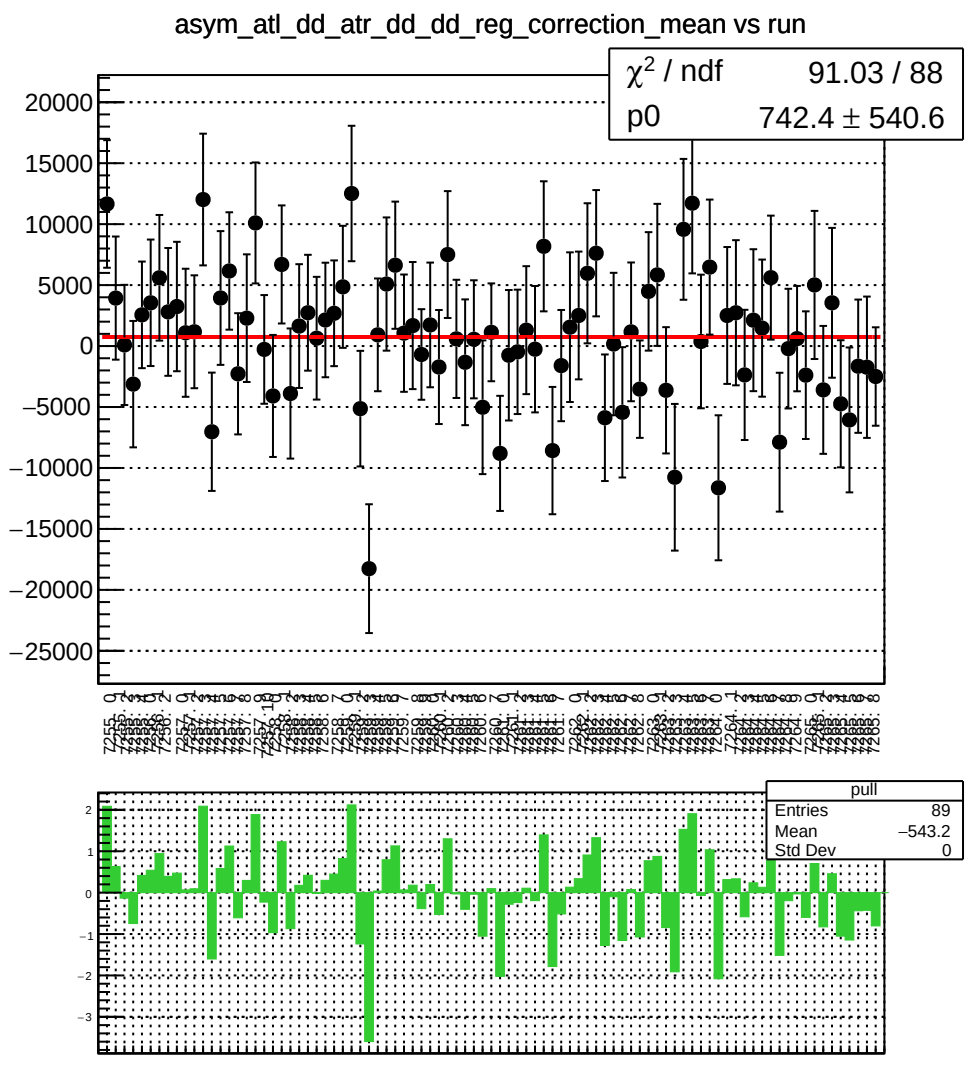

pull1D
Entries 89
Mean 0.04081
Std Dev 0.8716

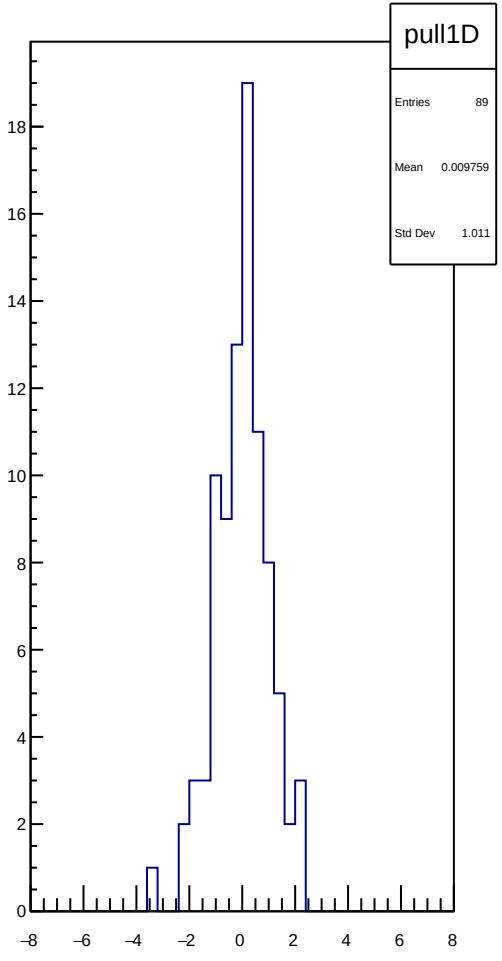

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.381e+05 / 88
p0 3.412e−12 ± 3.319e−15
35
30
25
20
15
10
5

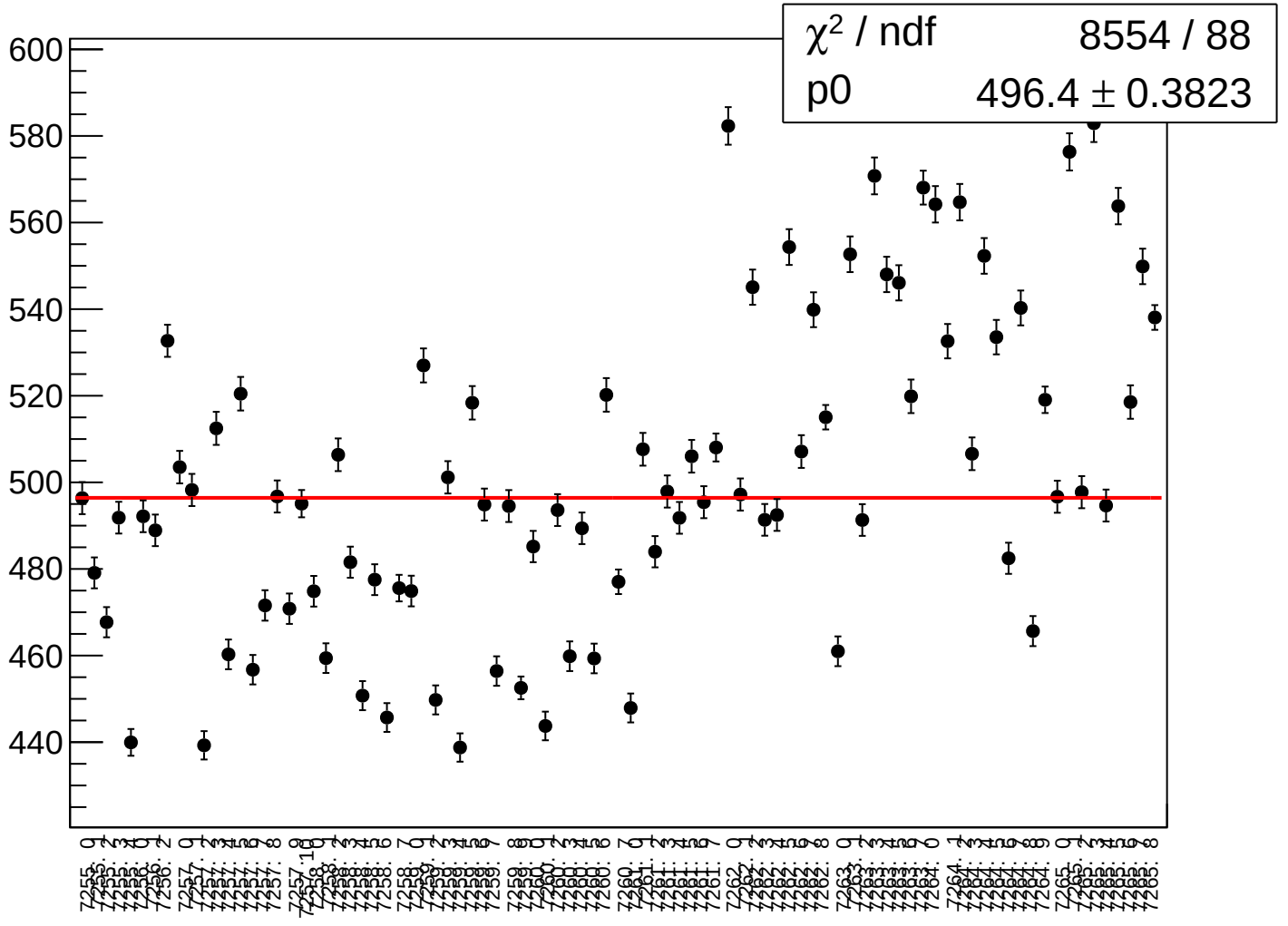

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 92.03 / 88
p0 −1083 ± 1292
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −199.9
Std Dev 0
2
1
0
−1
−2
−3

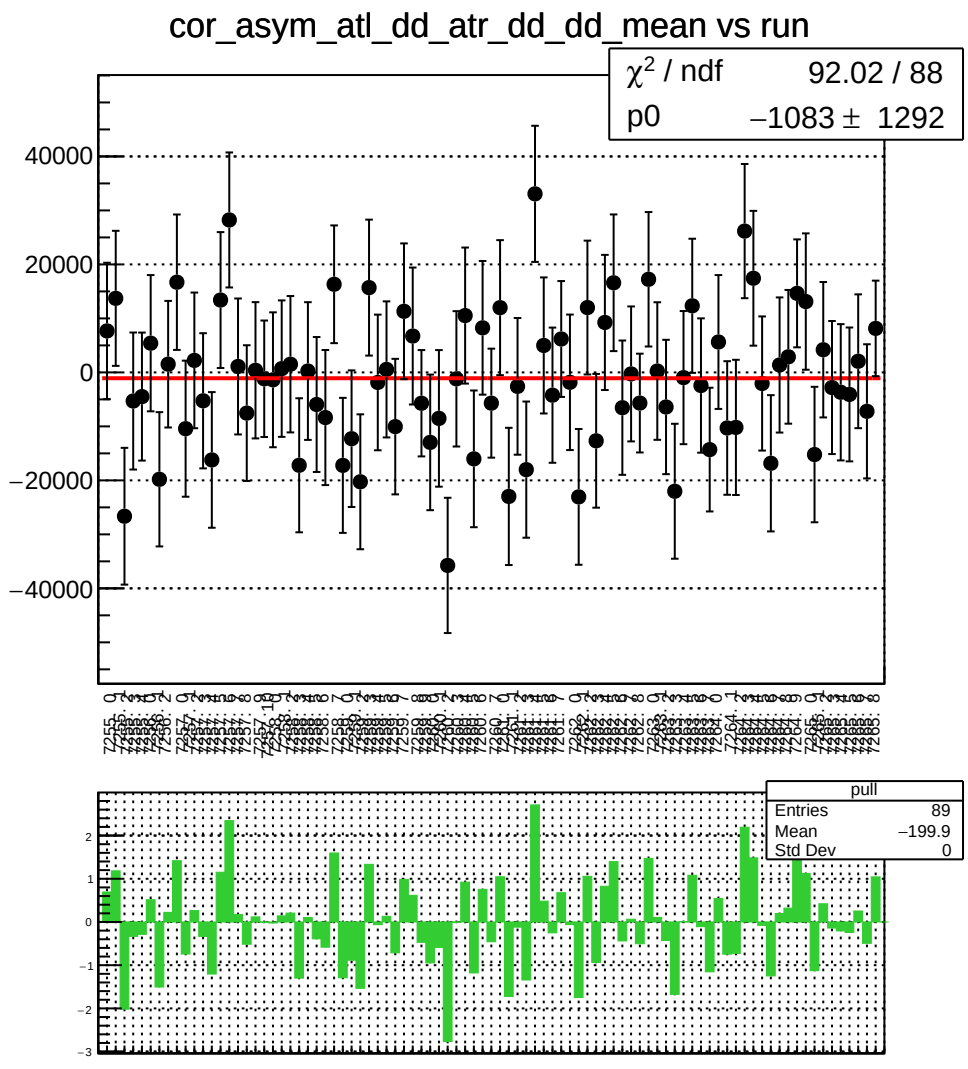

pull1D
Entries 89
Mean −0.007735
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

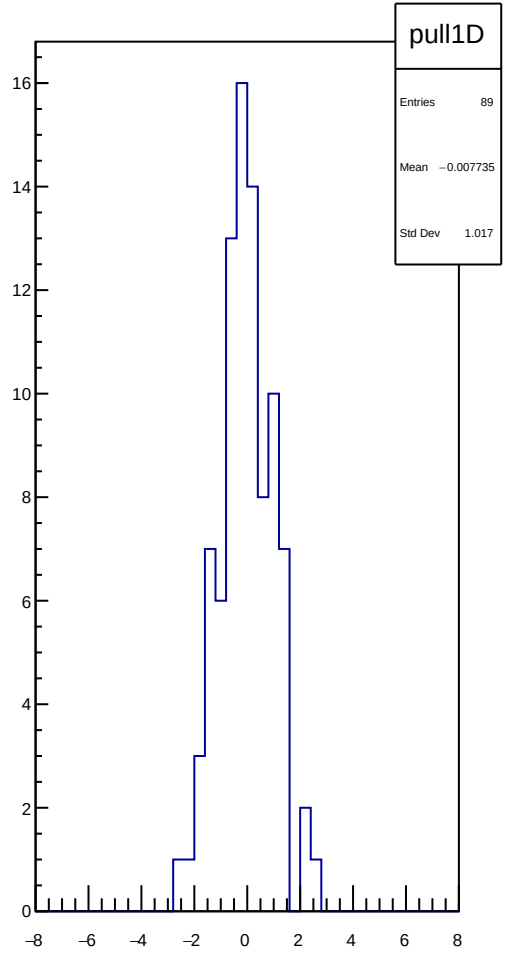

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 104.3 / 88
p0 1189 ± 0.9137
1220
1210
1200
1190
1180
1170
1160

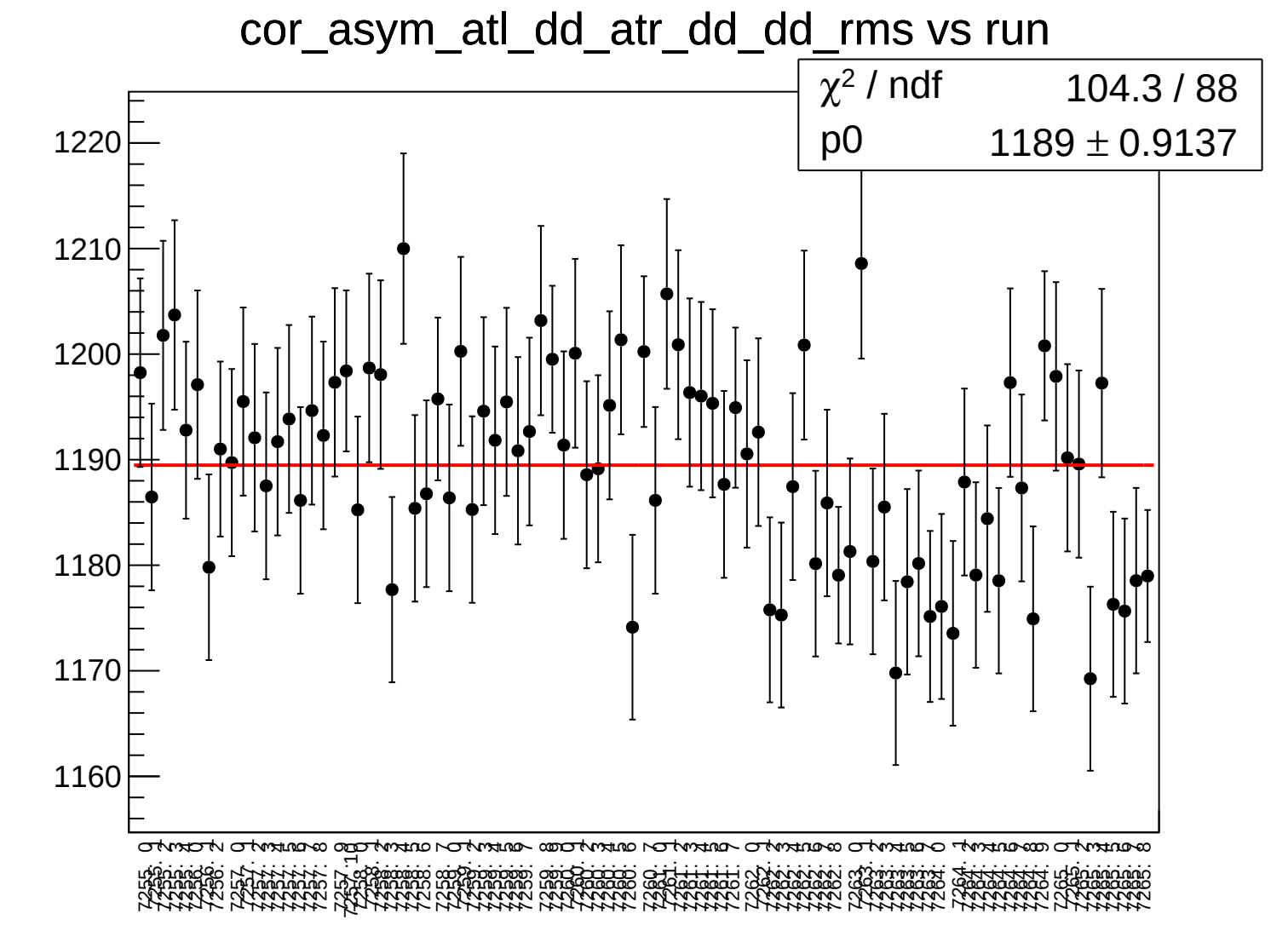

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 91.03 / 88
p0 742.4 ± 540.6
pull
Entries 89
Mean −543.2
Std Dev 0

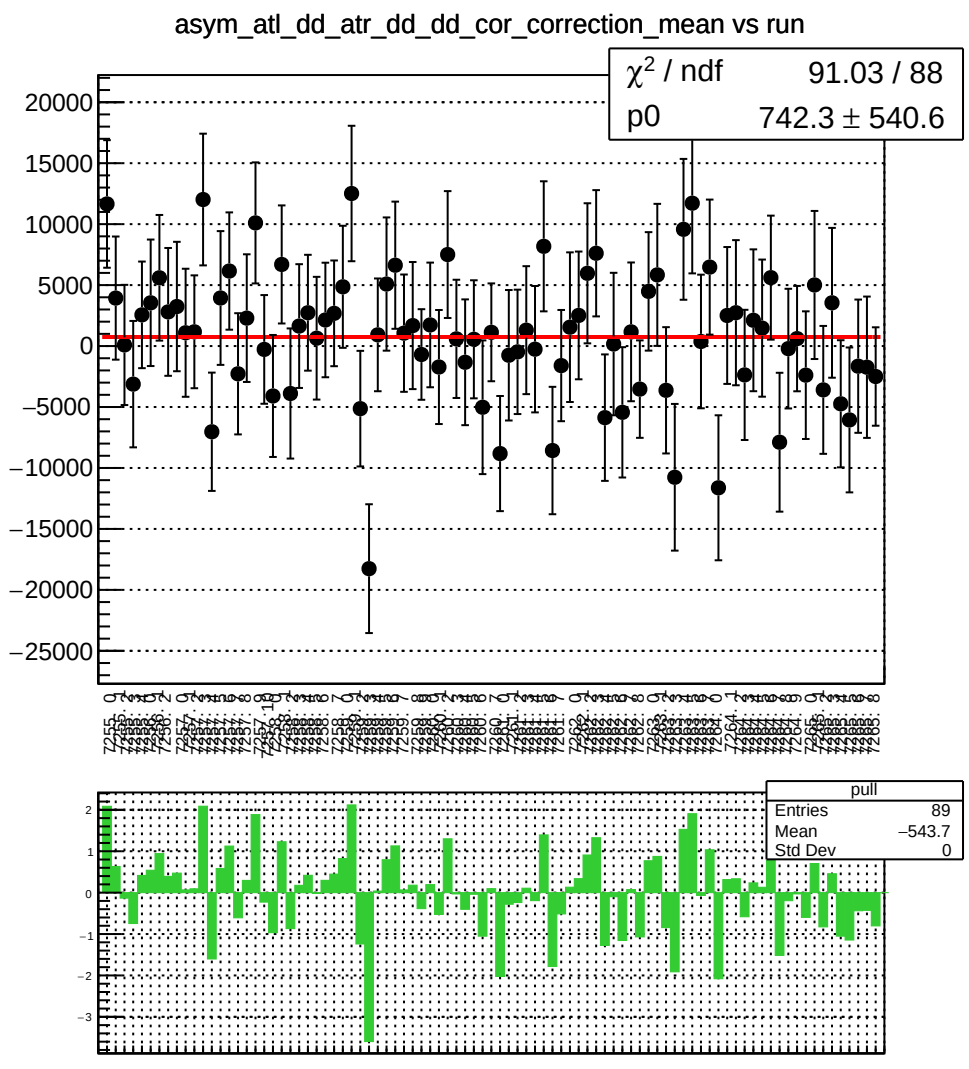

pull1D
Entries 89
Mean 0.009759
Std Dev 1.011

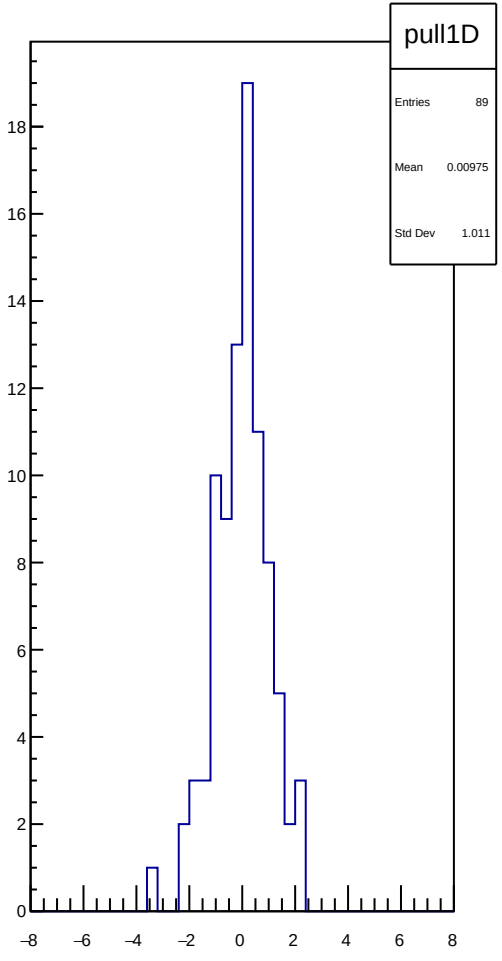

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 8554 / 88
p0 496.4 ± 0.3823
600
580
560
540
520
500
480
460
440

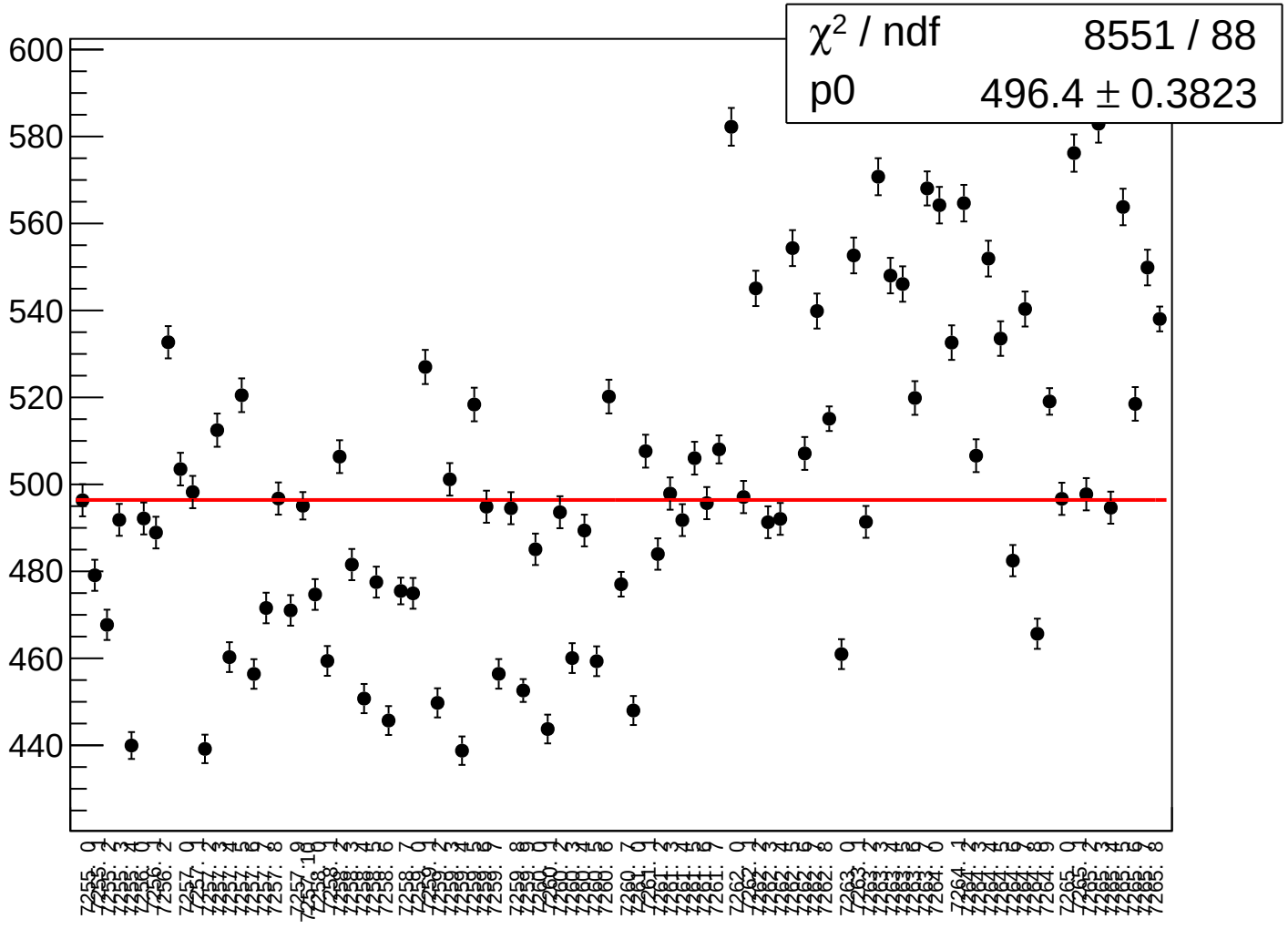

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 92.02 / 88
p0 −1083 ± 1292
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −199.9
Std Dev 0
2
1
0
−1
−2
−3

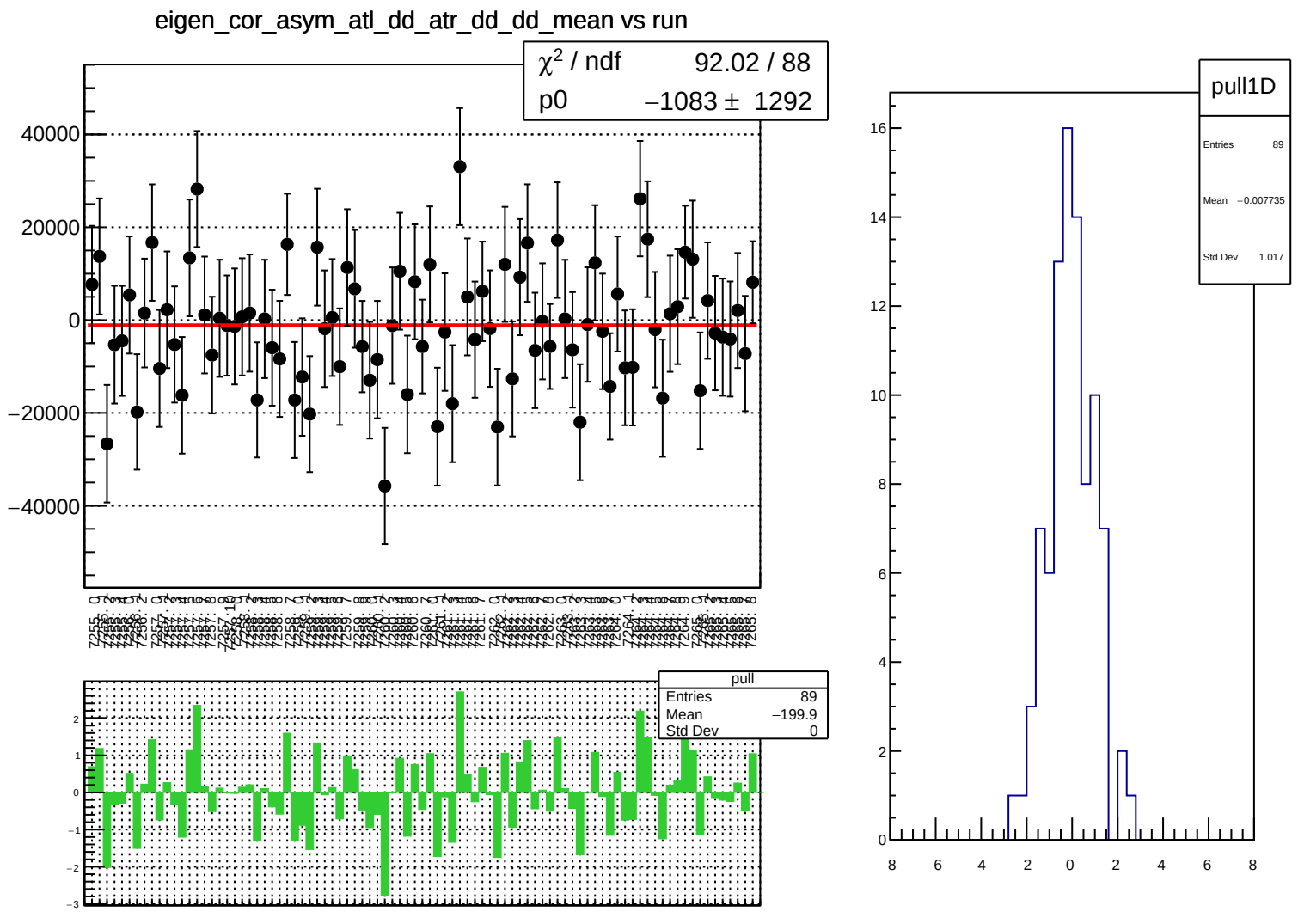

pull1D
Entries 89
Mean −0.007735
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

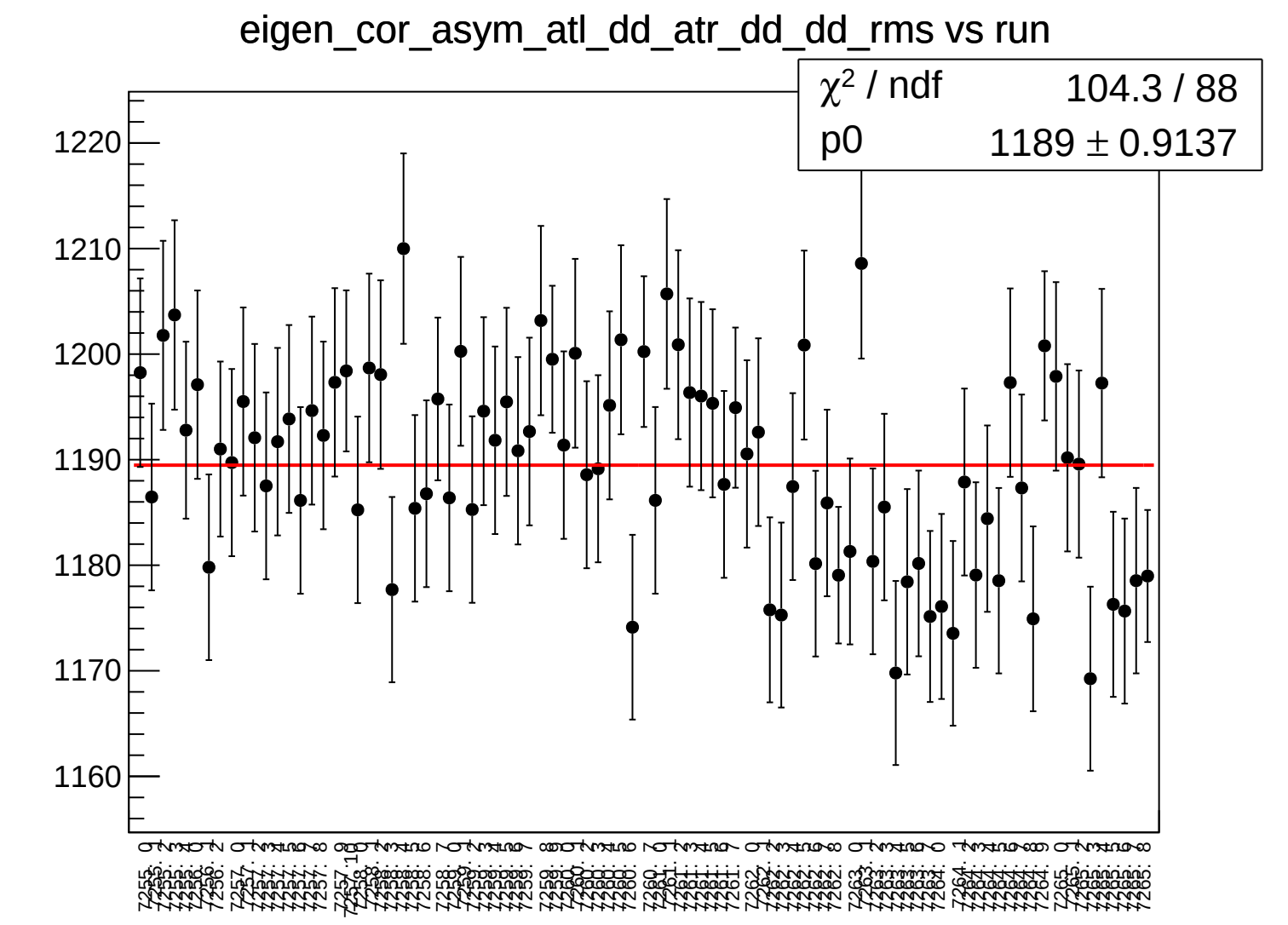

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 104.3 / 88
p0 1189 ± 0.9137
1220
1210
1200
1190
1180
1170
1160

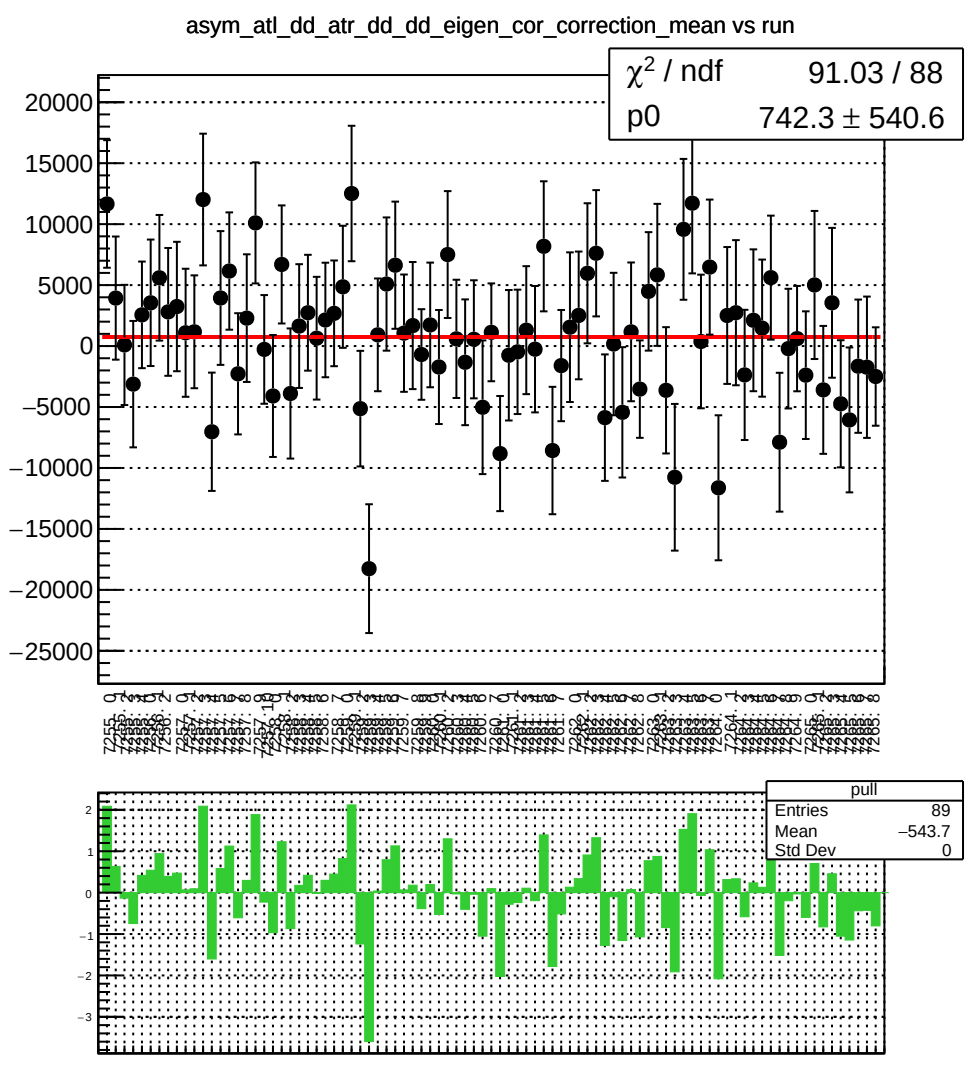

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 91.03 / 88
p0 742.3 ± 540.6
pull
Entries 89
Mean −543.7
Std Dev 0

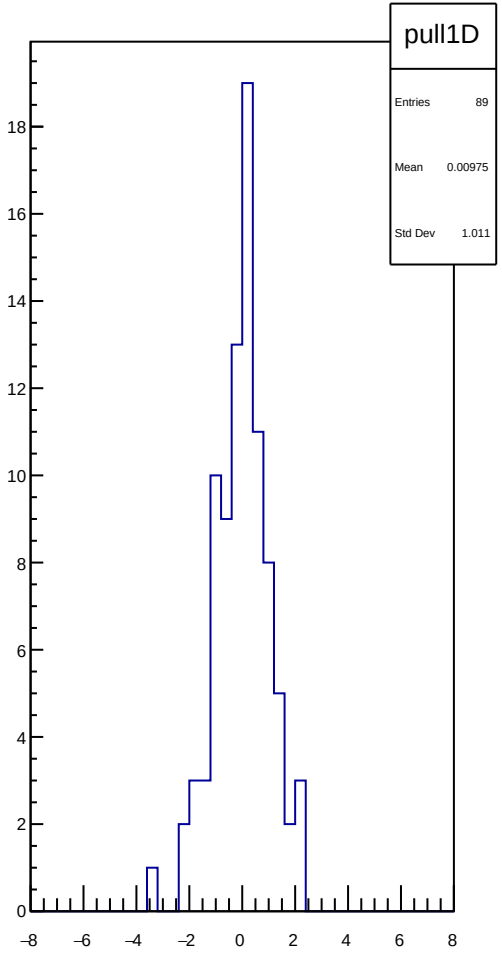

pull1D
Entries 89
Mean 0.00975
Std Dev 1.011

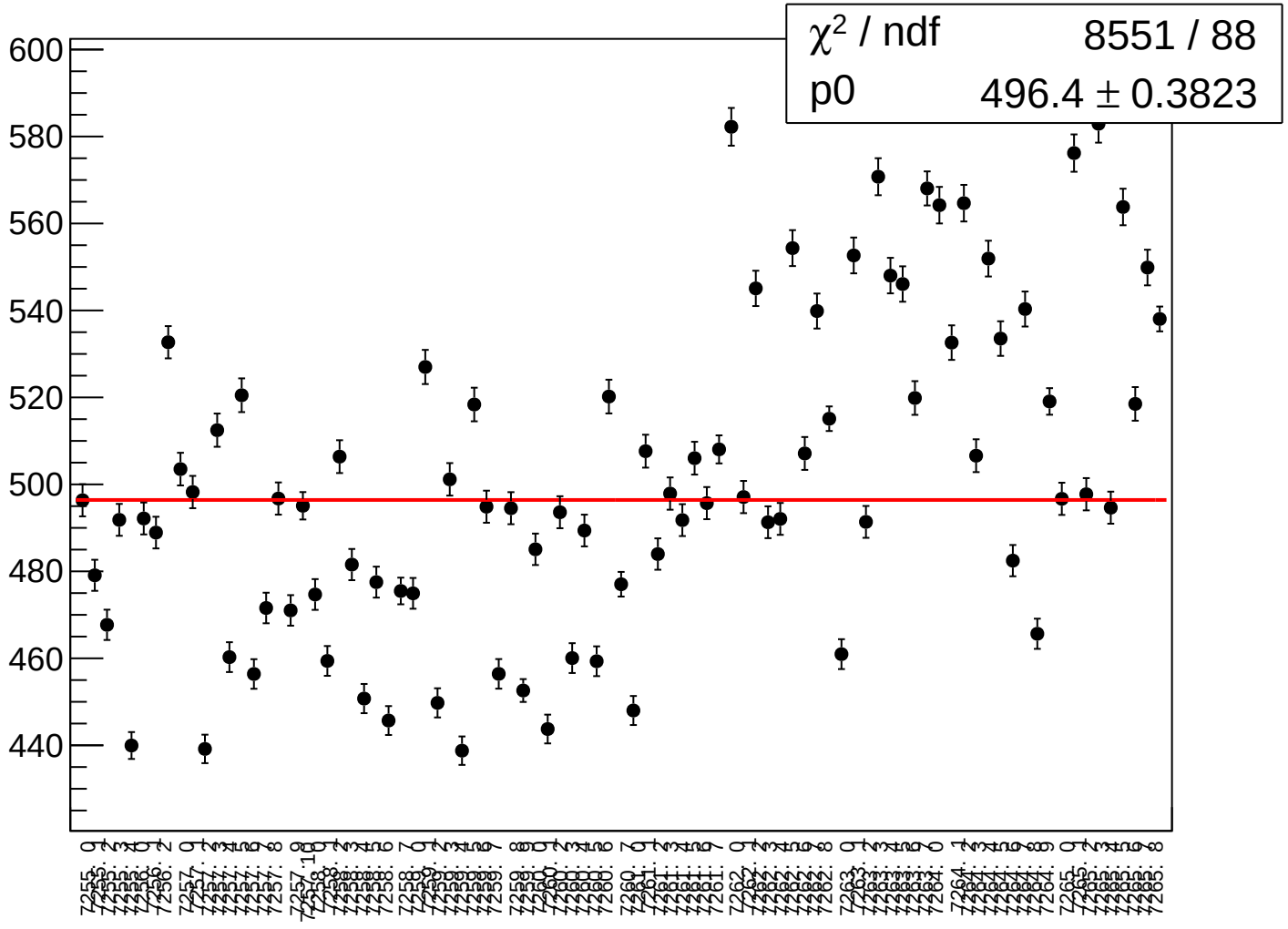

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 8551 / 88
p0 496.4 ± 0.3823
600
580
560
540
520
500
480
460
440

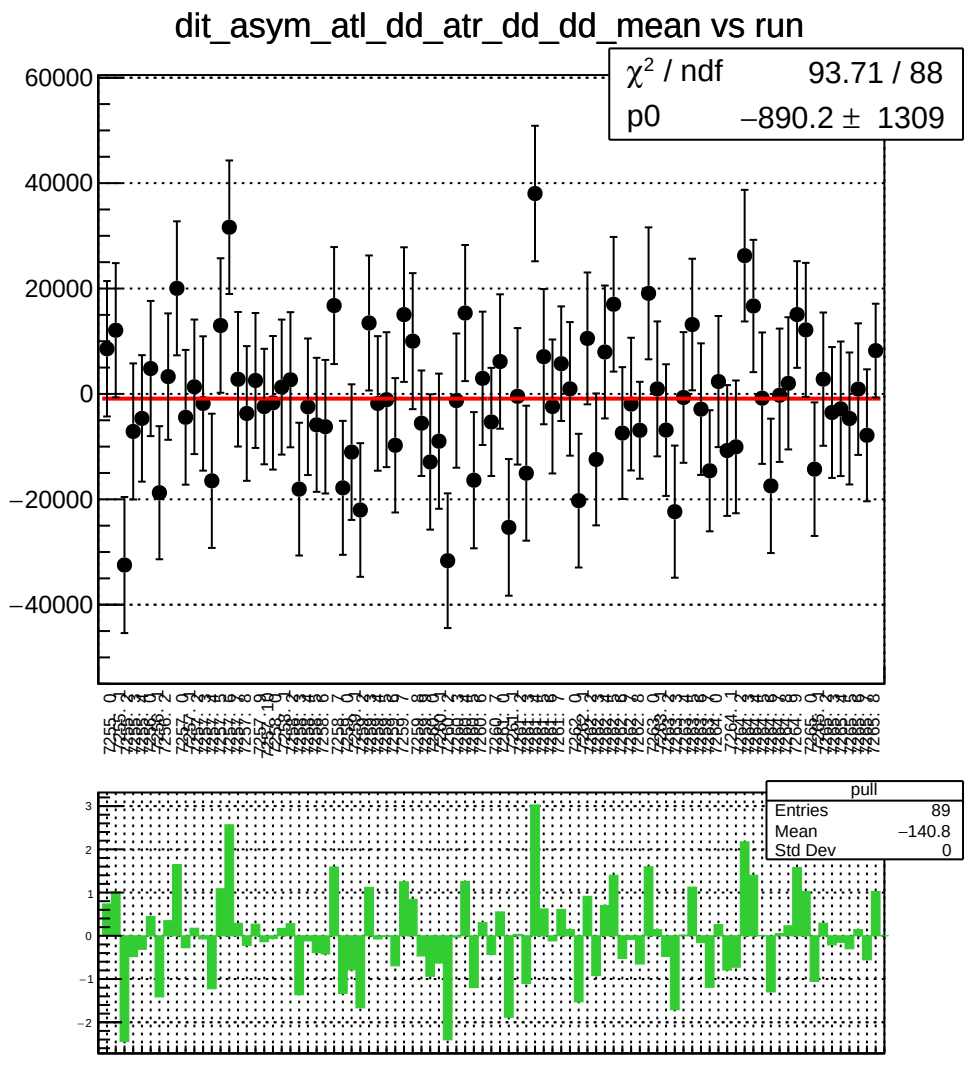

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 92.02 / 88
p0 −1083 ± 1292
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −199.9
Std Dev 0
pull1D
Entries 89
Mean −0.007735
Std Dev 1.017

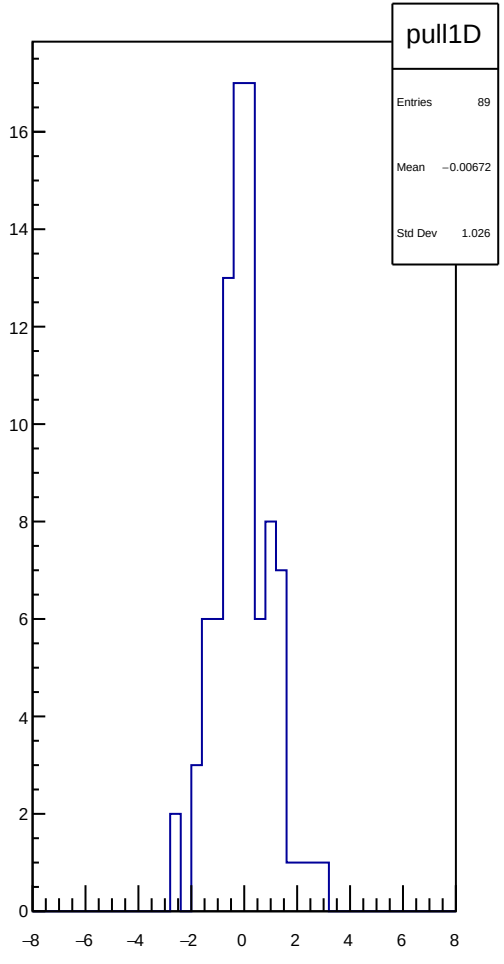

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 104.3 / 88
p0 1189 ± 0.9137
1220
1210
1200
1190
1180
1170
1160

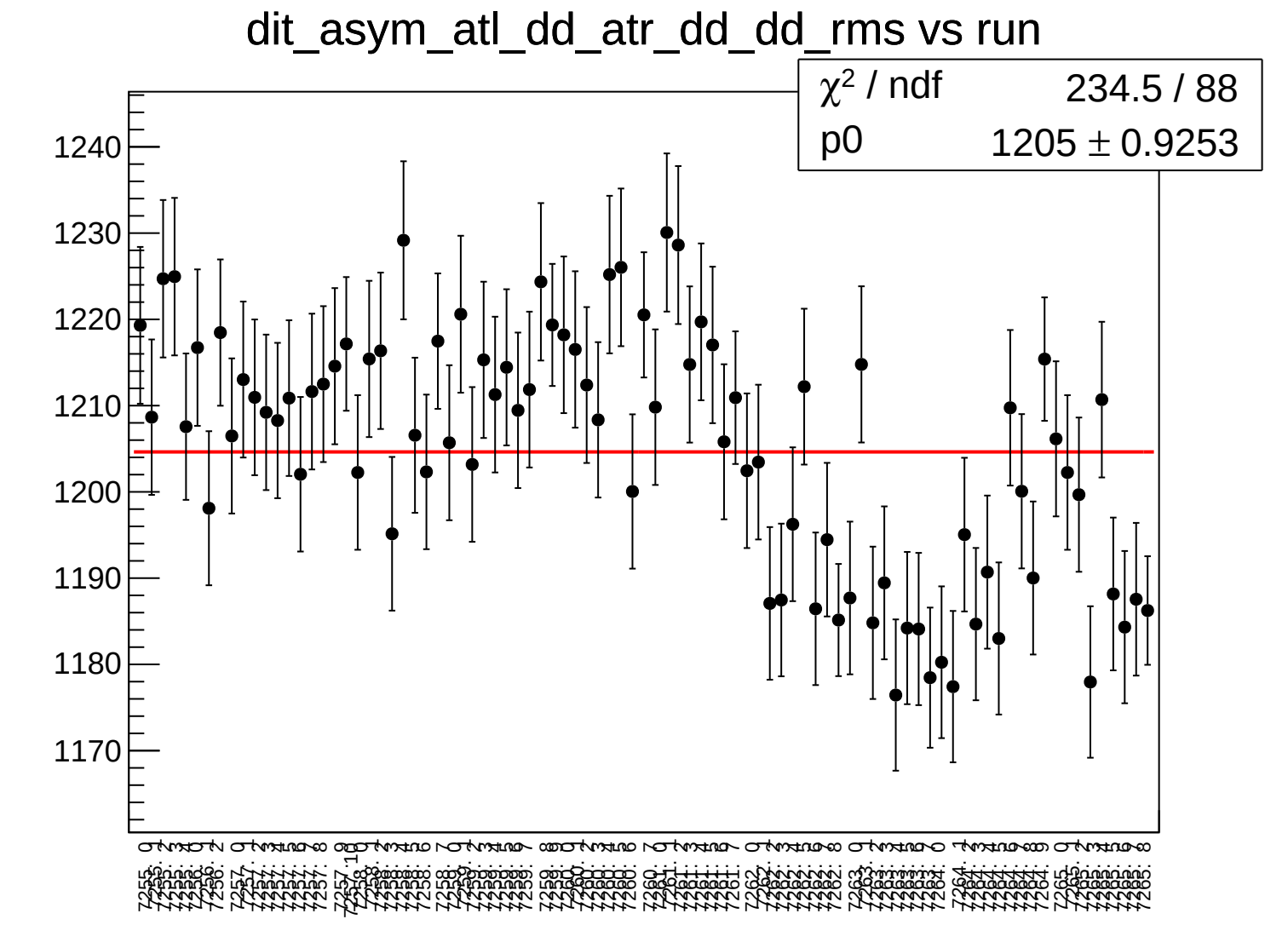

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.03 / 88
p0 742.3 ± 540.6
pull
Entries 89
Mean −543.7
Std Dev 0

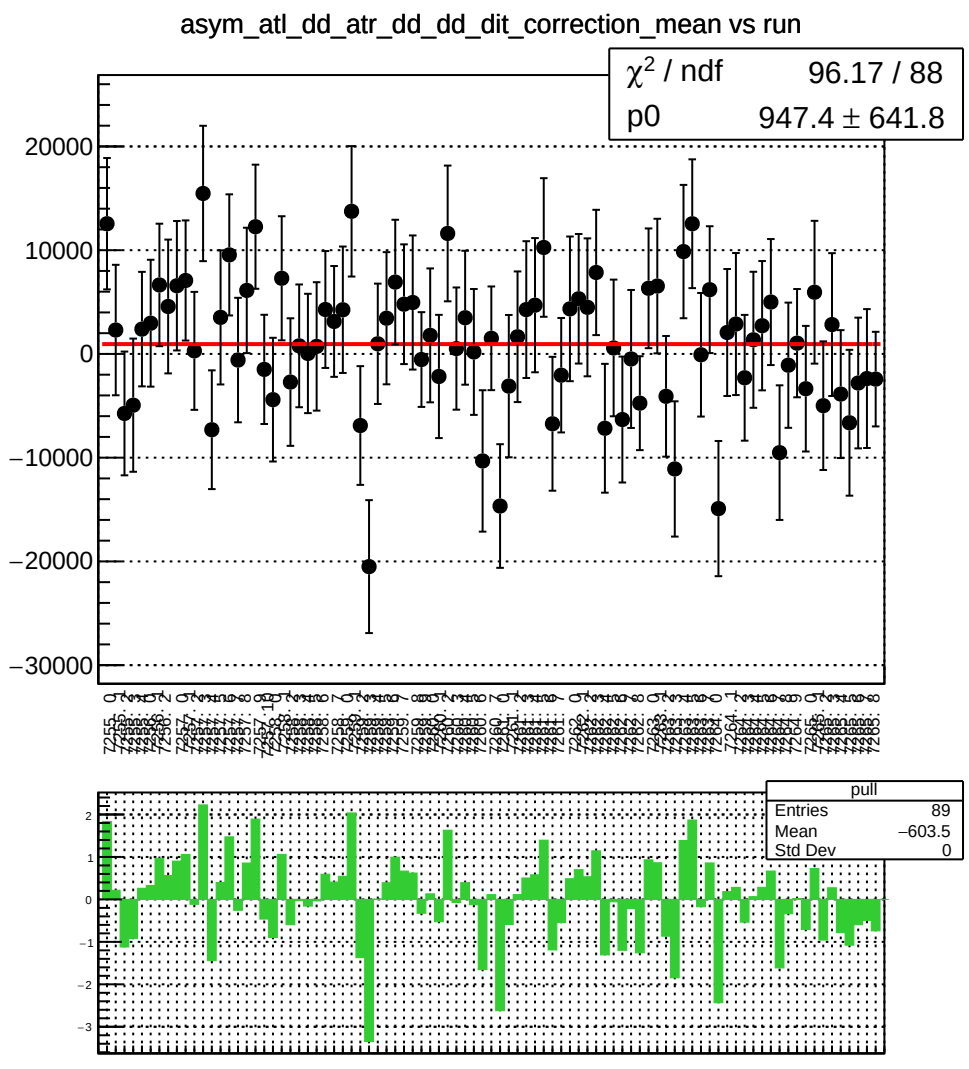

pull1D
Entries 89
Mean 0.00975
Std Dev 1.011

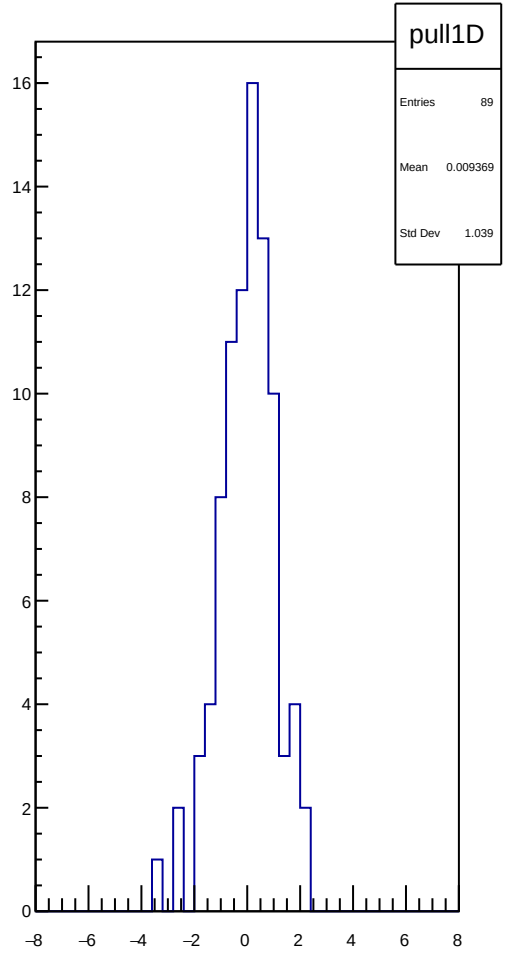

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 8551 / 88
p0 496.4 ± 0.3823
600
580
560
540
520
500
480
460
440

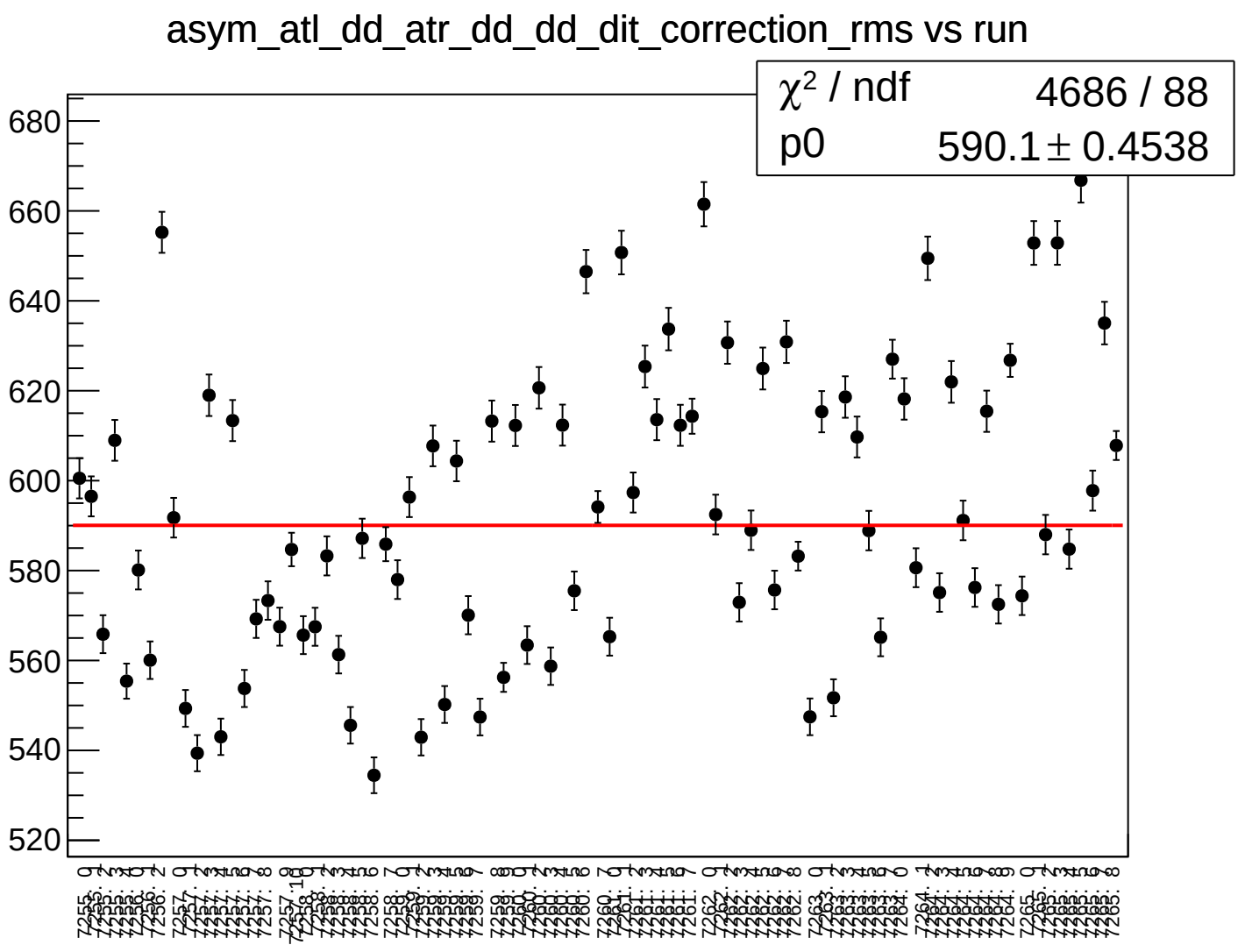

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 93.71 / 88
p0 −890.2 ± 1309
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −140.8
Std Dev 0
3
2
1
0
−1
−2

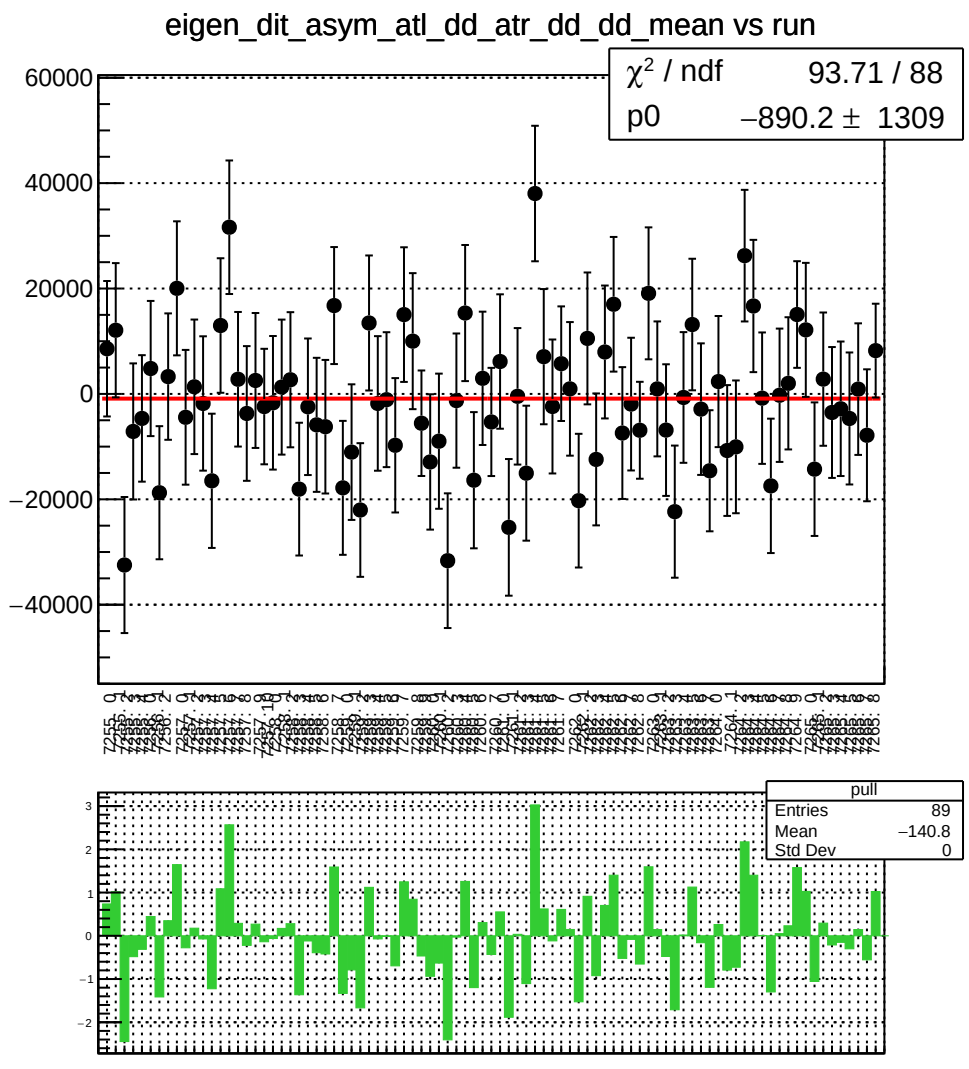

pull1D
Entries 89
Mean −0.00672
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

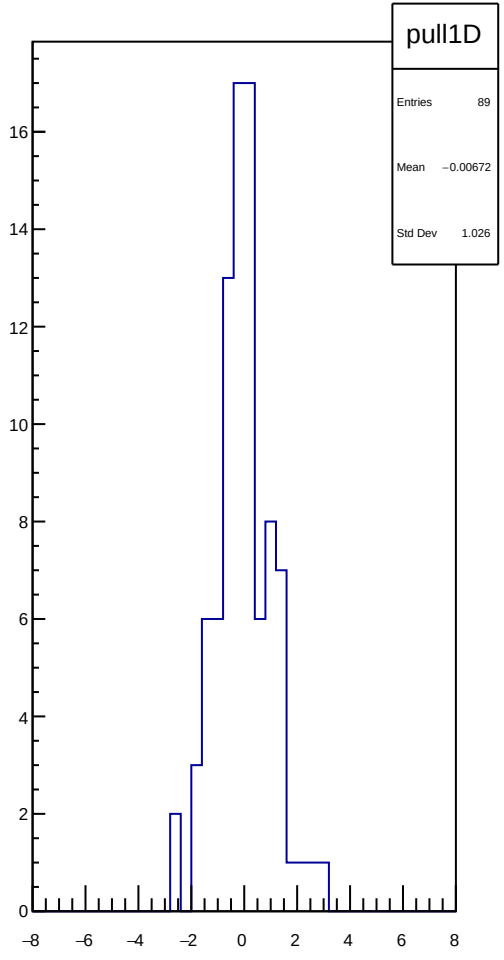

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 234.5 / 88
p0 1205 ± 0.9253
1240
1230
1220
1210
1200
1190
1180
1170

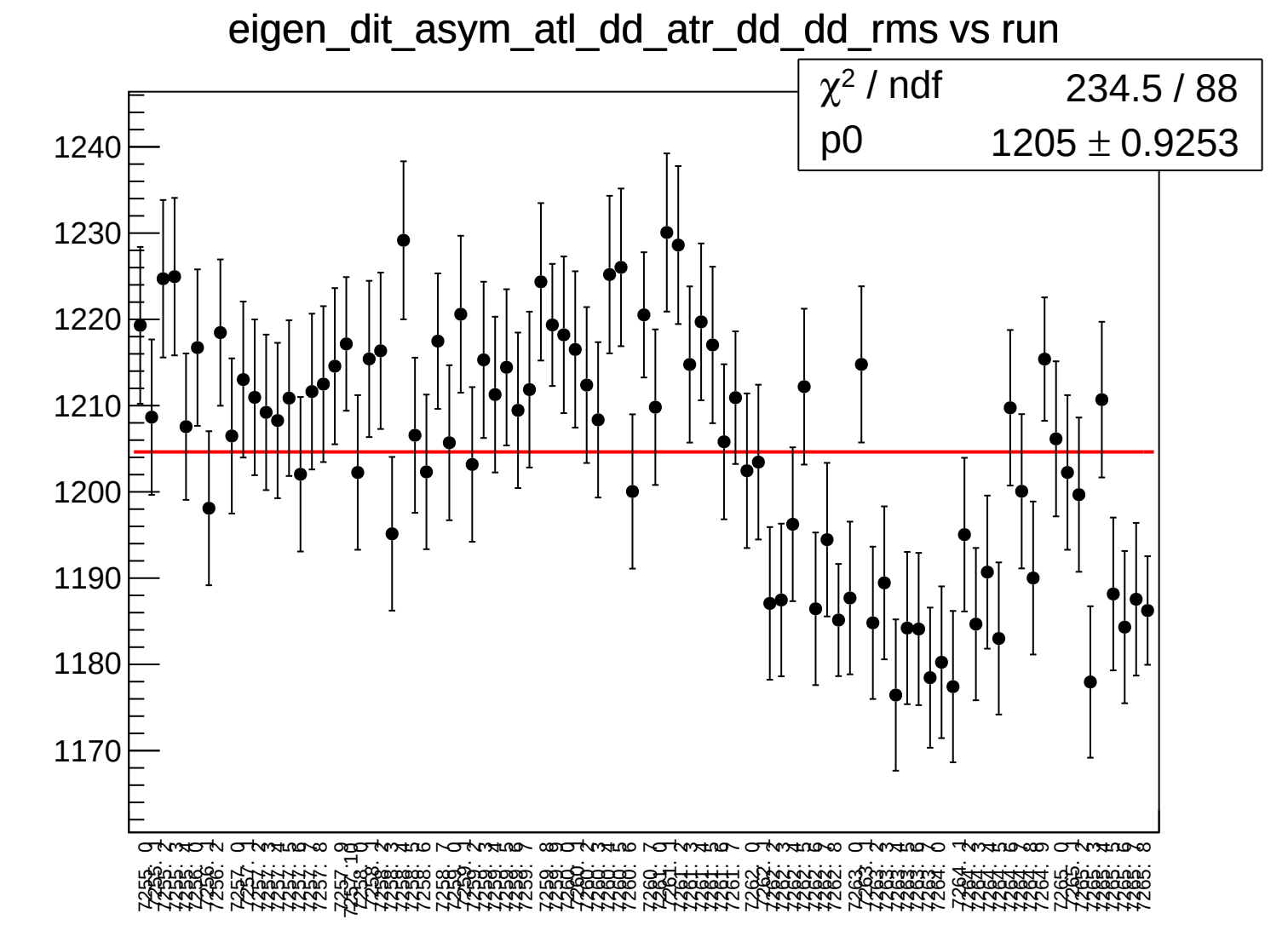

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 96.17 / 88
p0 947.4 ± 641.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −603.5
Std Dev 0
2
1
0
−1
−2
−3

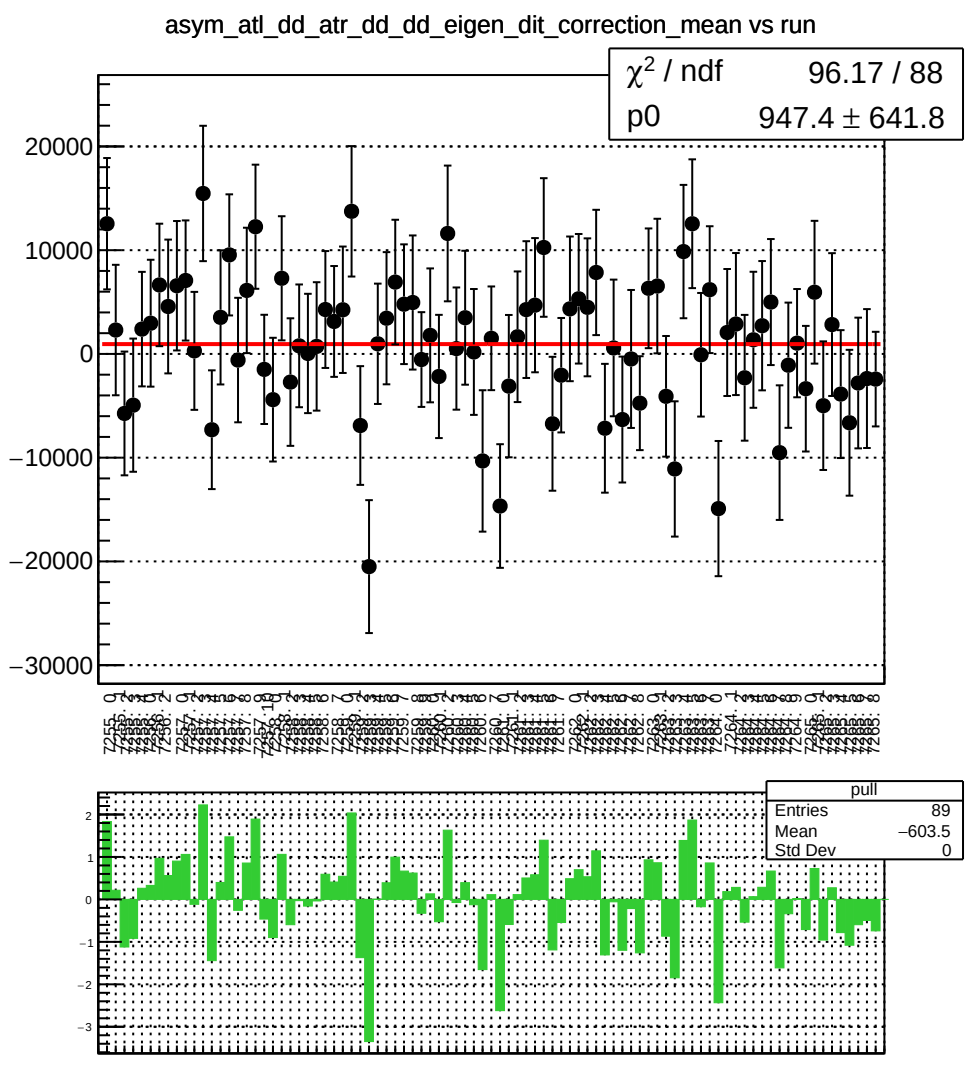

pull1D
Entries 89
Mean 0.009369
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

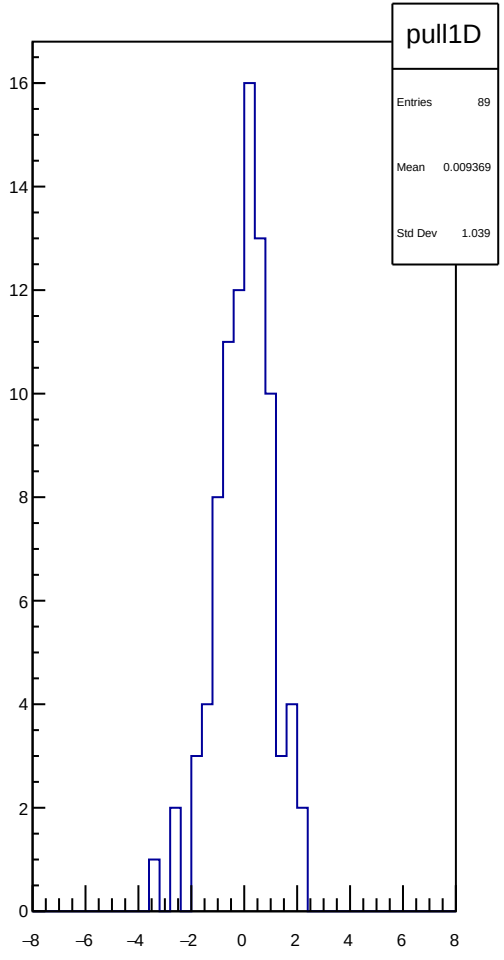

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 4686 / 88
p0 590.1 ± 0.4538
680
660
640
620
600
580
560
540
520

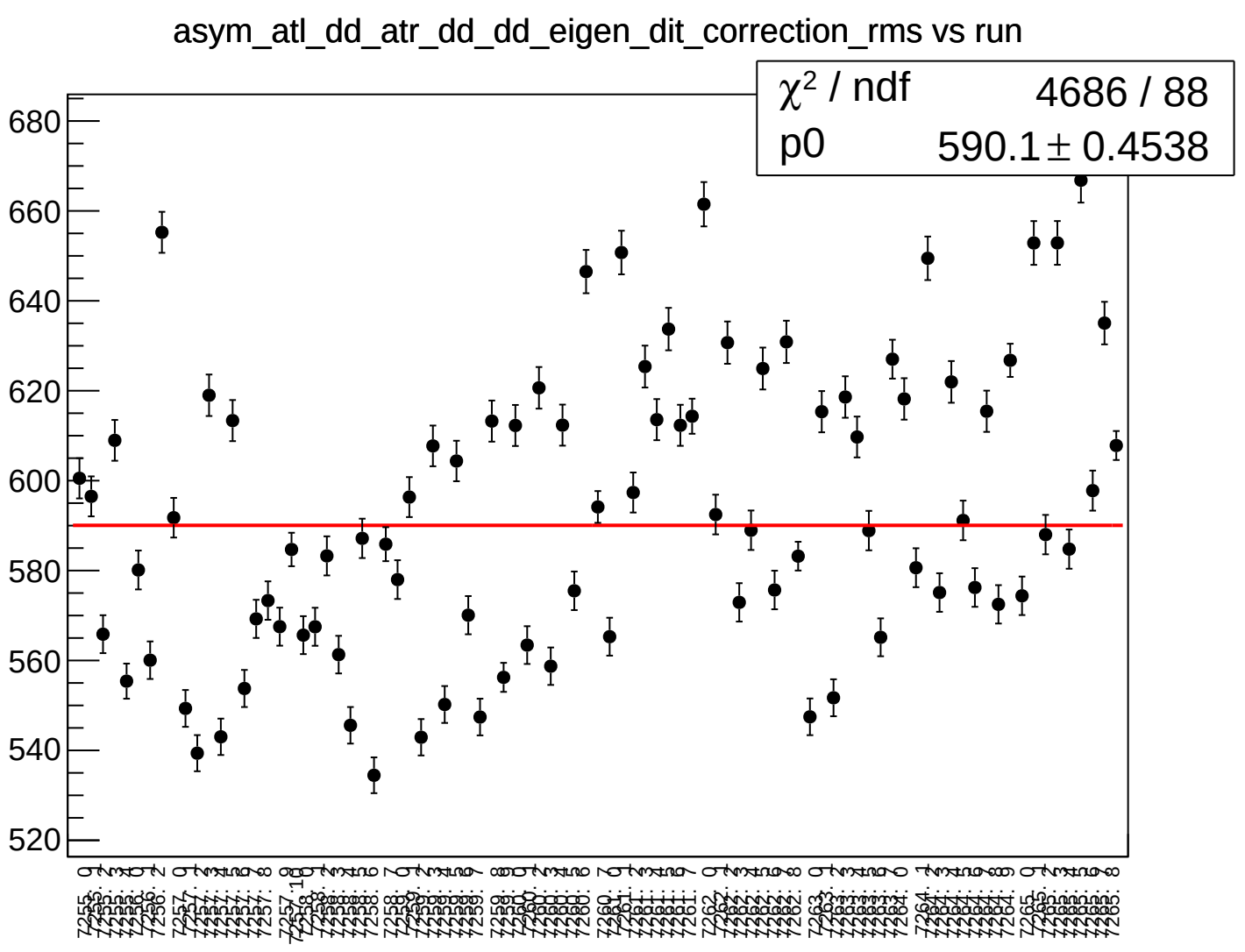

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 93.71 / 88
p0 −890.2 ± 1309
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −140.8
Std Dev 0
3
2
1
0
−1
−2

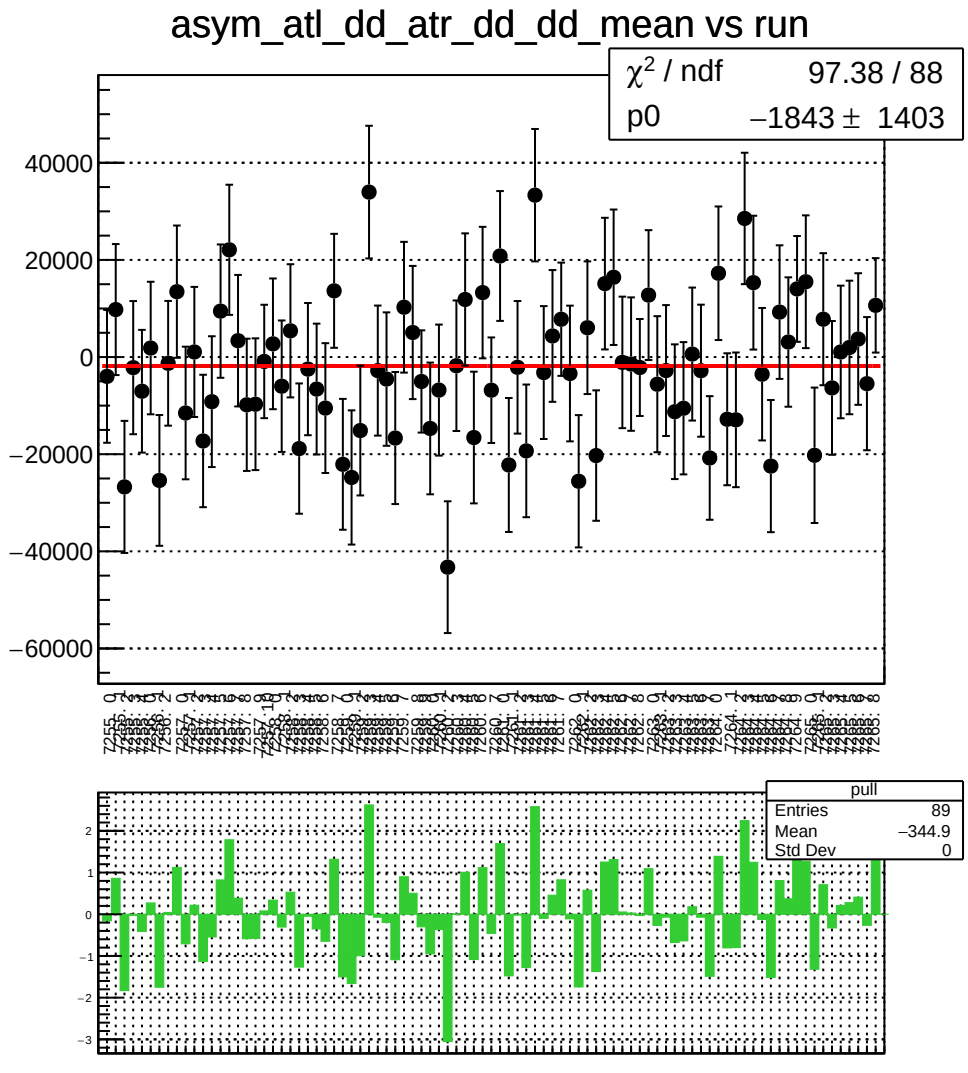

pull1D
Entries 89
Mean −0.00672
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

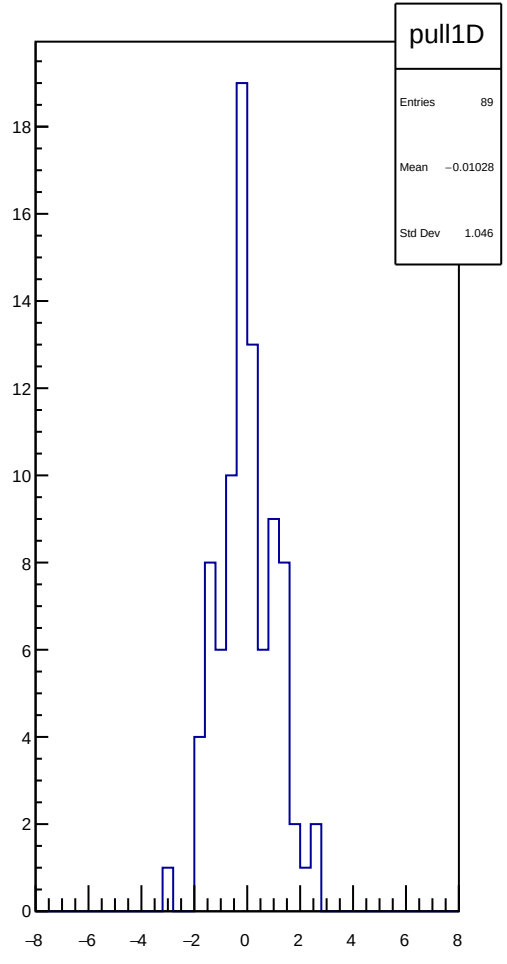

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 234.5 / 88
p0 1205 ± 0.9253
1240
1230
1220
1210
1200
1190
1180
1170

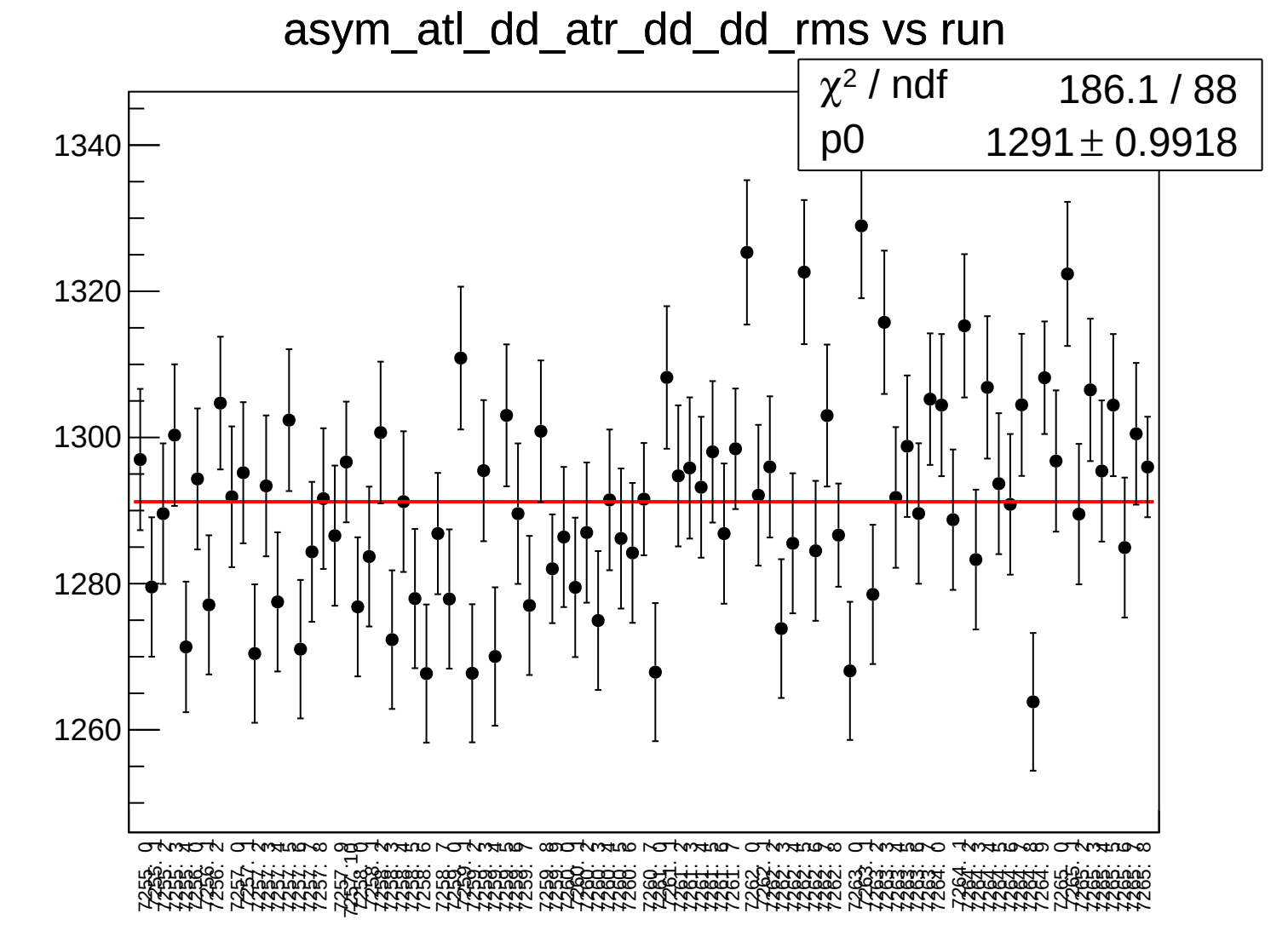

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.17 / 88
p0 947.4 ± 641.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −603.5
Std Dev 0
2
1
0
−1
−2
−3

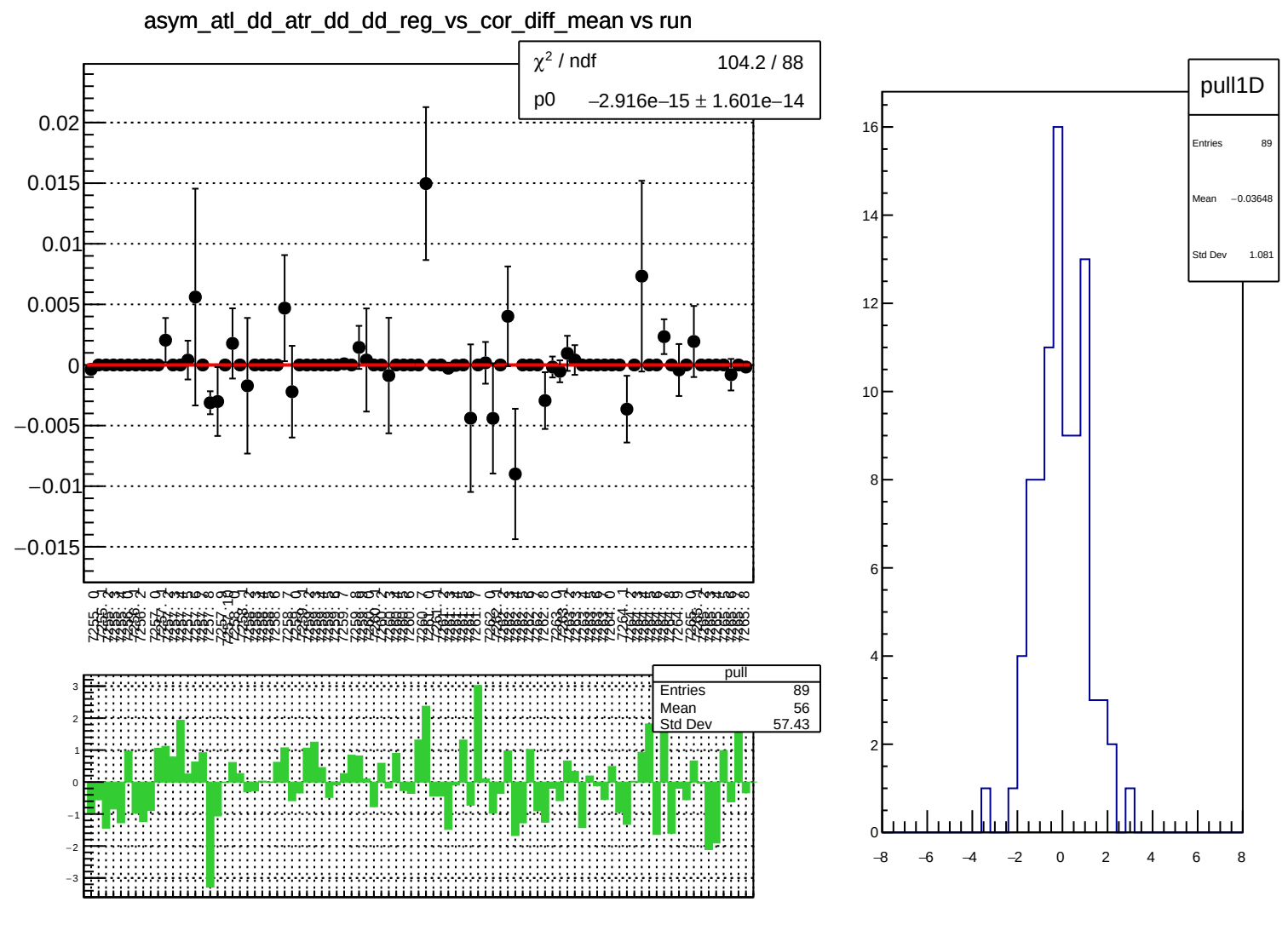

pull1D
Entries 89
Mean 0.009369
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

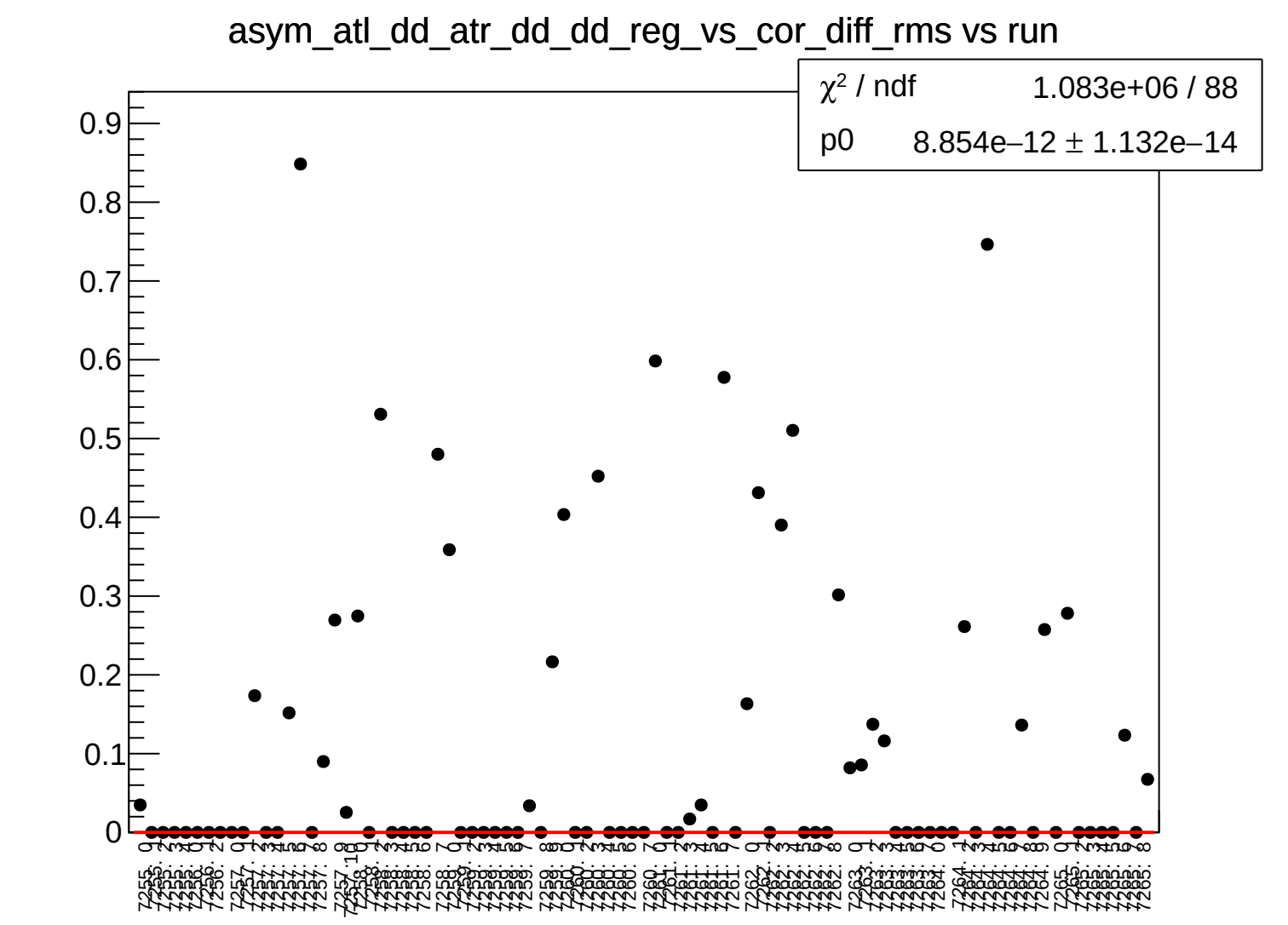

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4686 / 88
p0 590.1 ± 0.4538
680
660
640
620
600
580
560
540
520

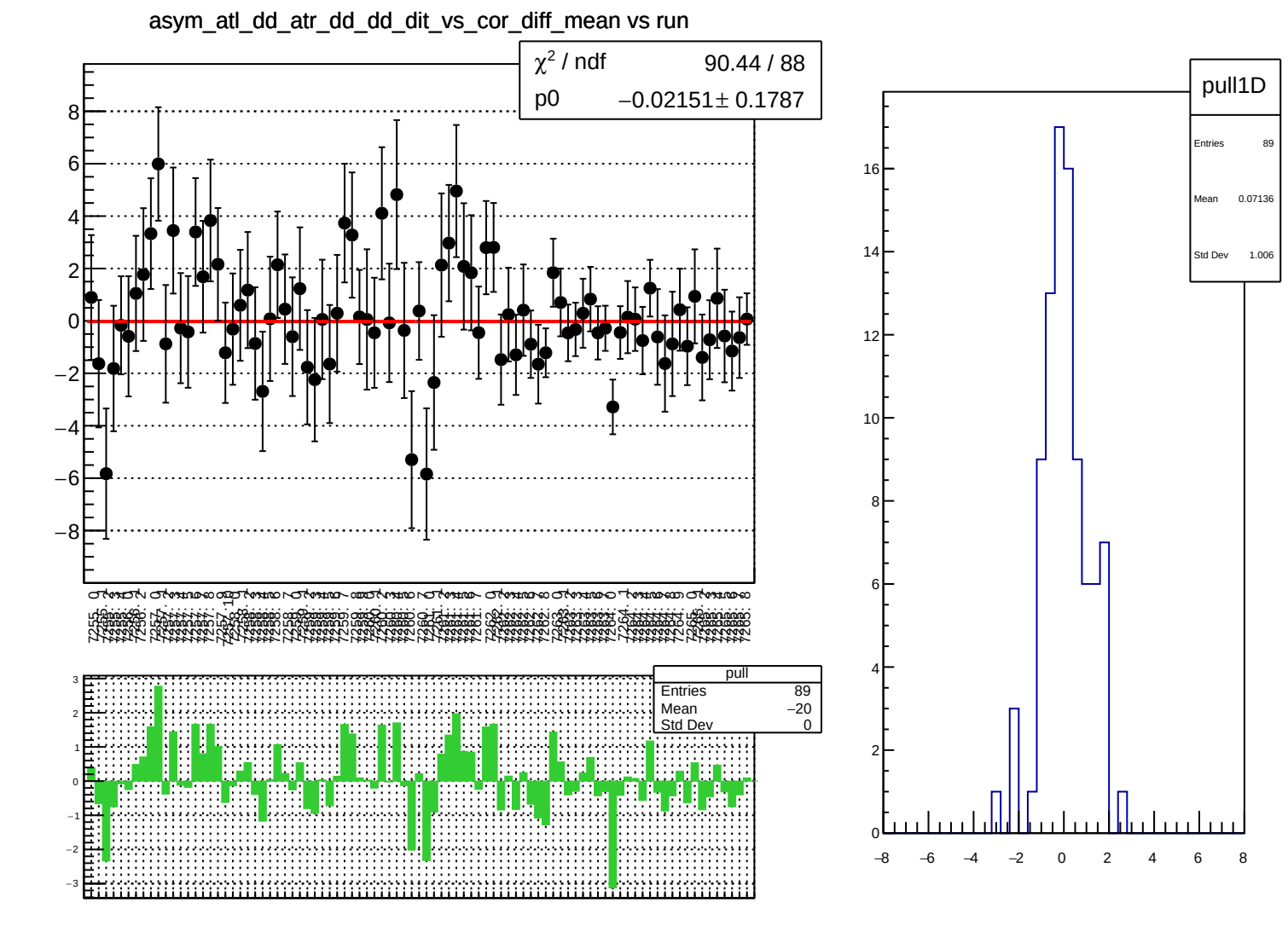

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 97.38 / 88
p0 −1843 ± 1403
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −344.9
Std Dev 0
2
1
0
−1
−2
−3

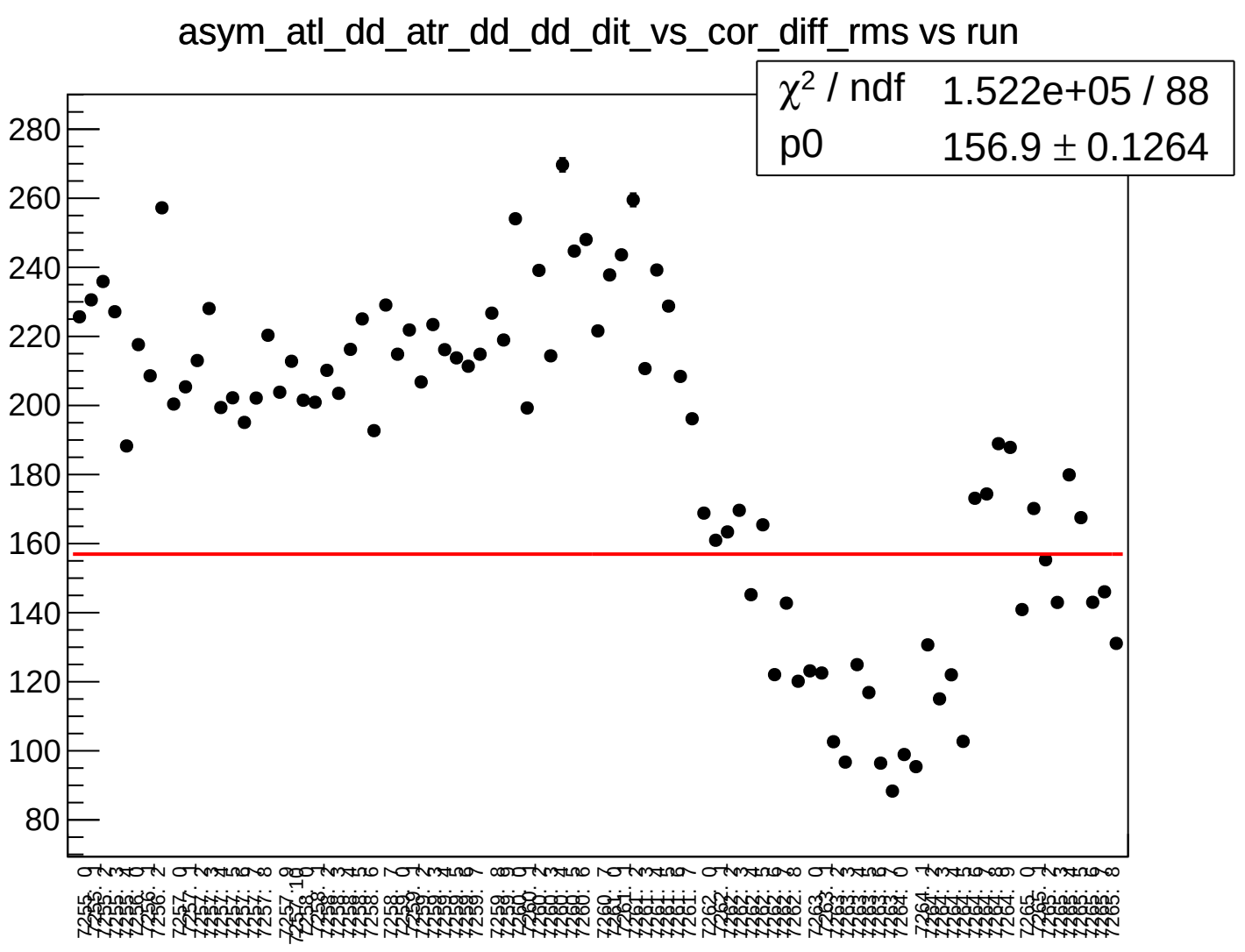

pull1D
Entries 89
Mean −0.01028
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

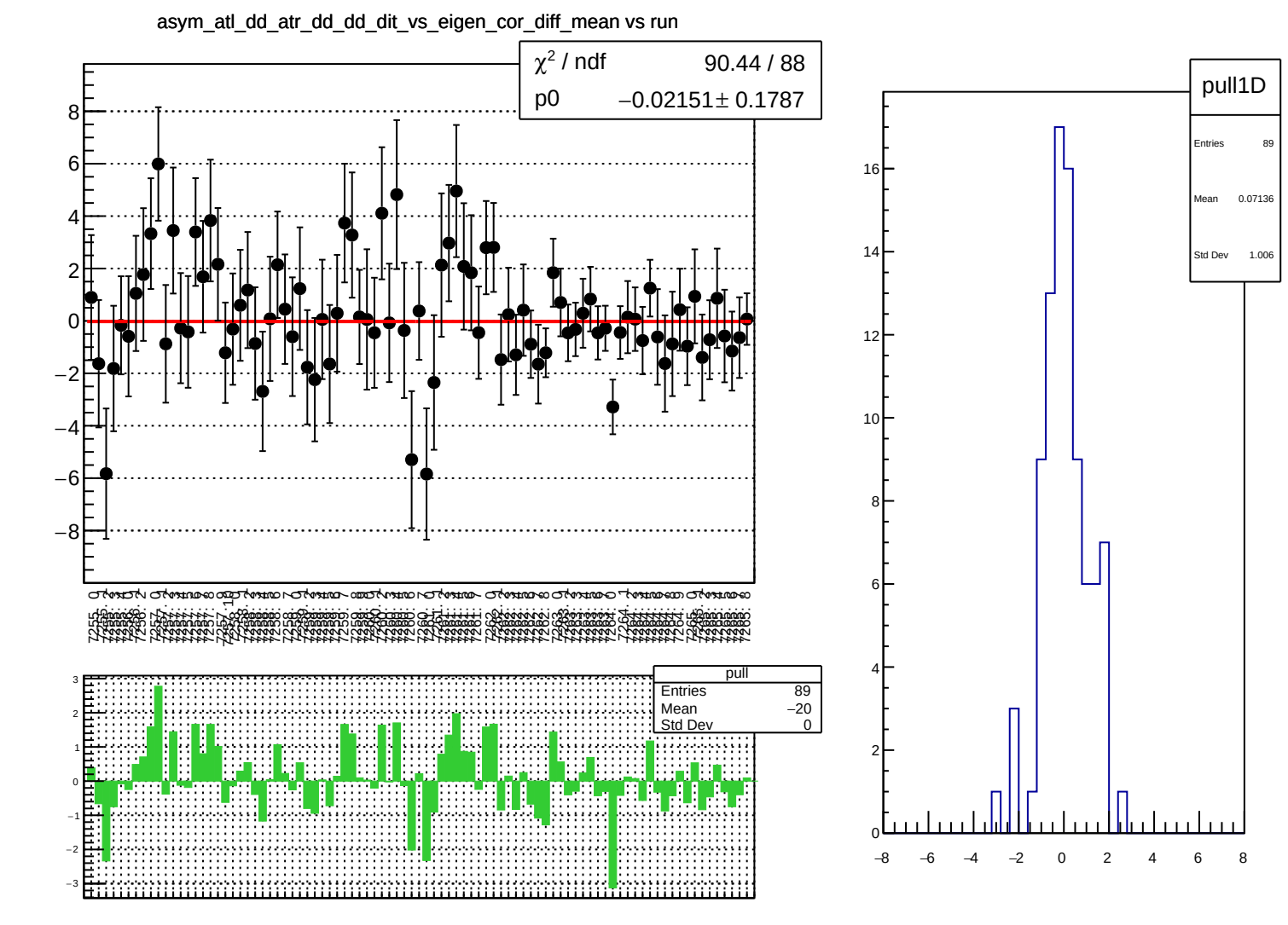

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 186.1 / 88
p0 1291 ± 0.9918
1340
1320
1300
1280
1260

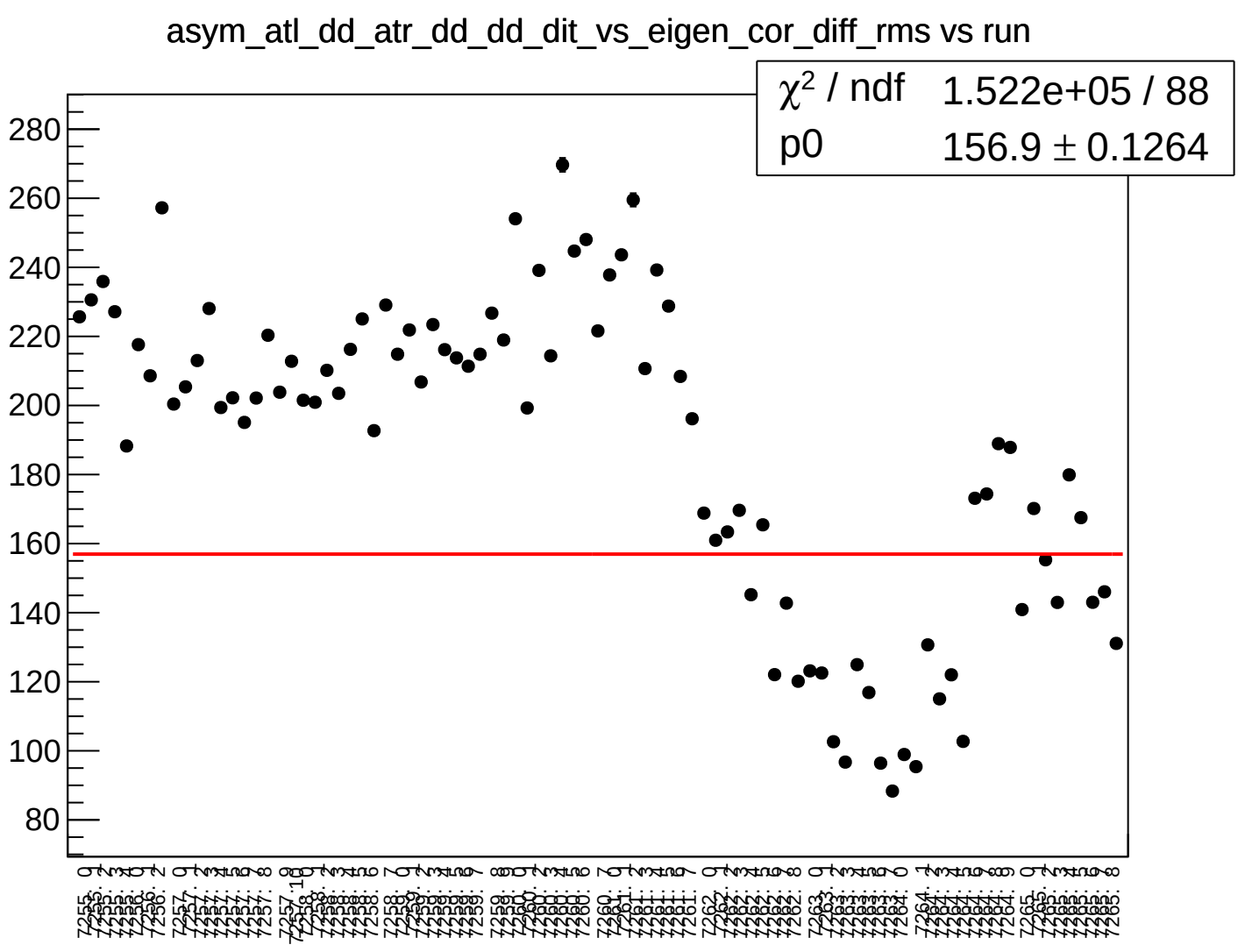

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 88
p0 −2.916e−15 ± 1.601e−14
pull
Entries 89
Mean 56
Std Dev 57.43
pull1D
Entries 89
Mean −0.03648
Std Dev 1.081

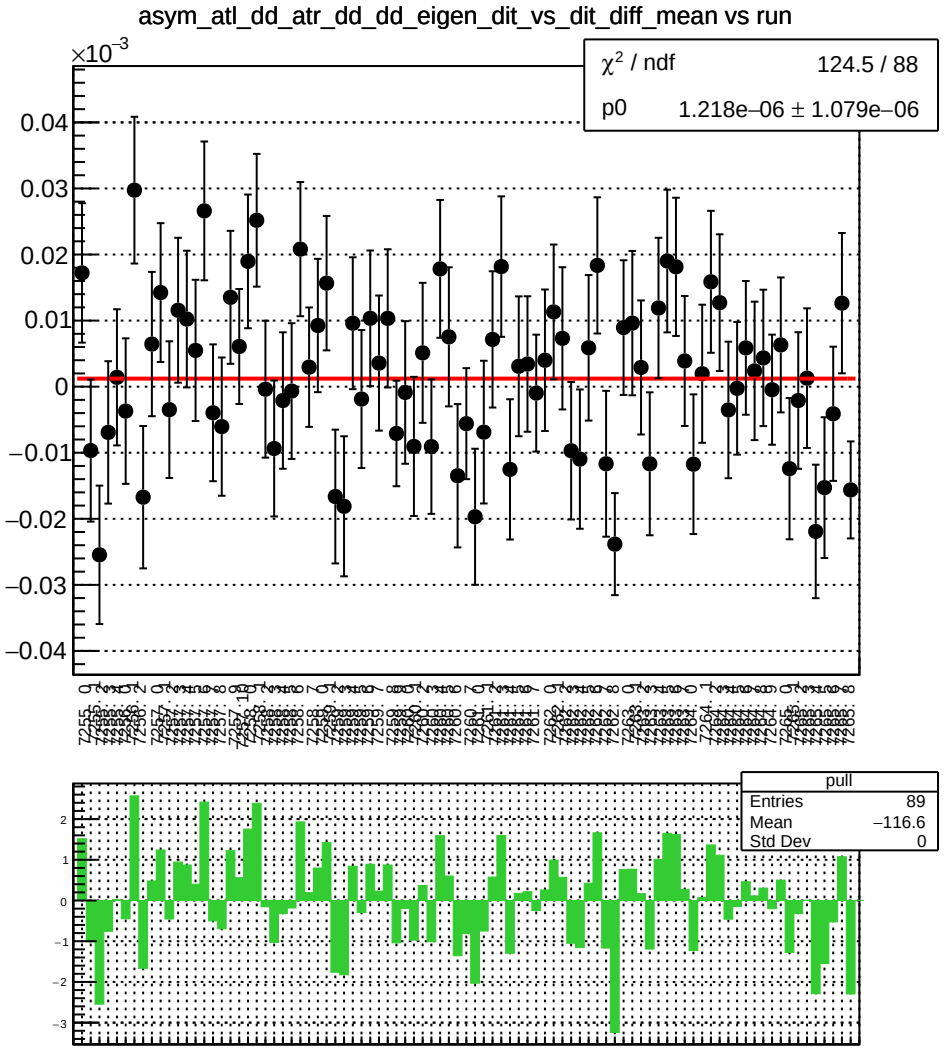

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.083e+06 / 88
p0 8.854e−12 ± 1.132e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

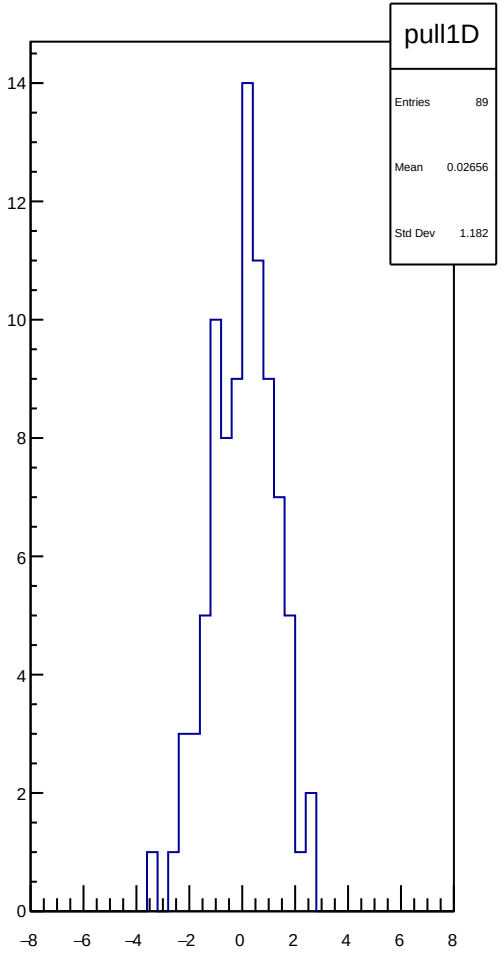

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.44 / 88
p0 −0.02151± 0.1787
pull
Entries 89
Mean −20
Std Dev 0
pull1D
Entries 89
Mean 0.07136
Std Dev 1.006

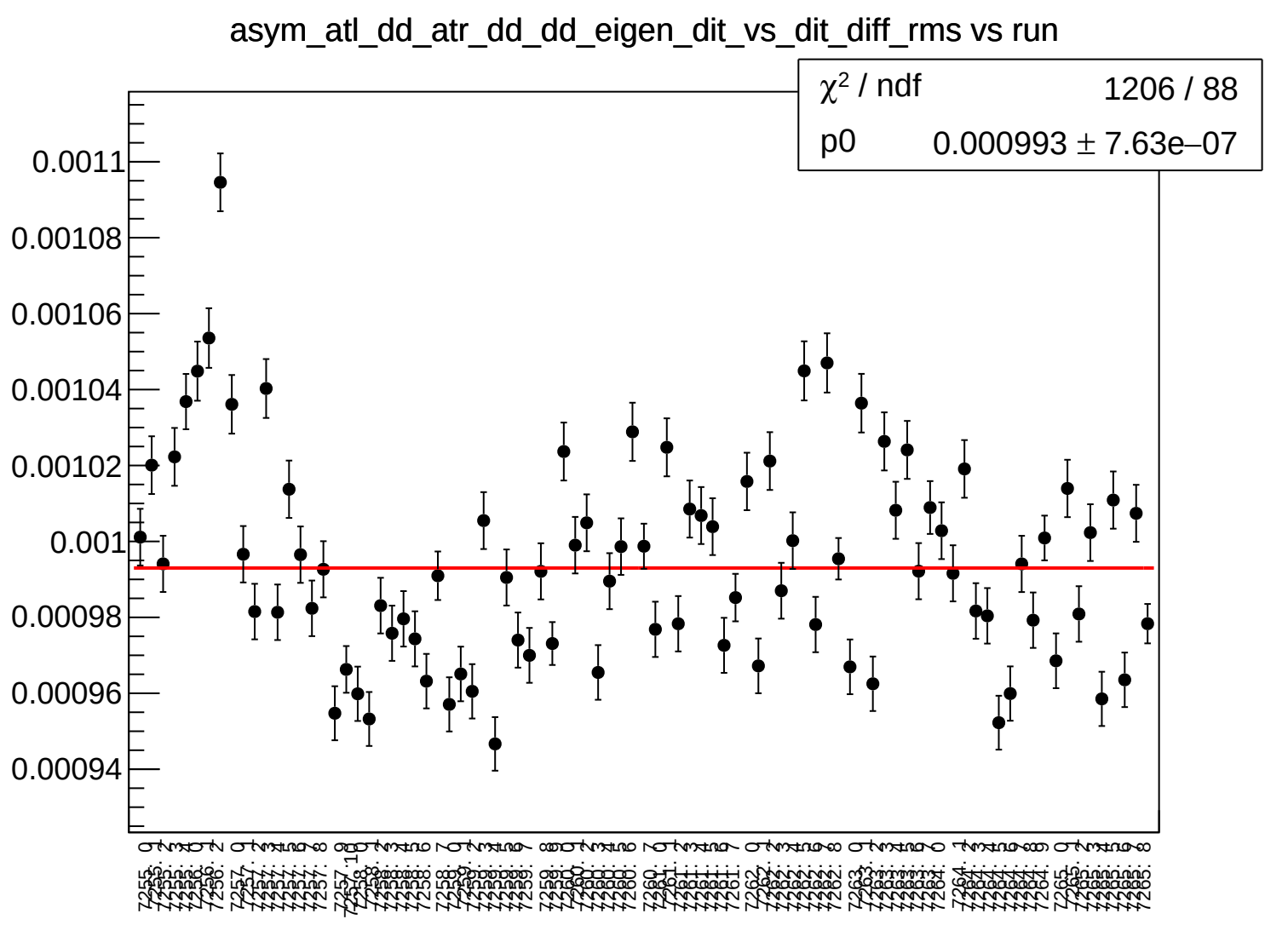

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.522e+05 / 88
p0 156.9 ± 0.1264
280
260
240
220
200
180
160
140
120
100
80

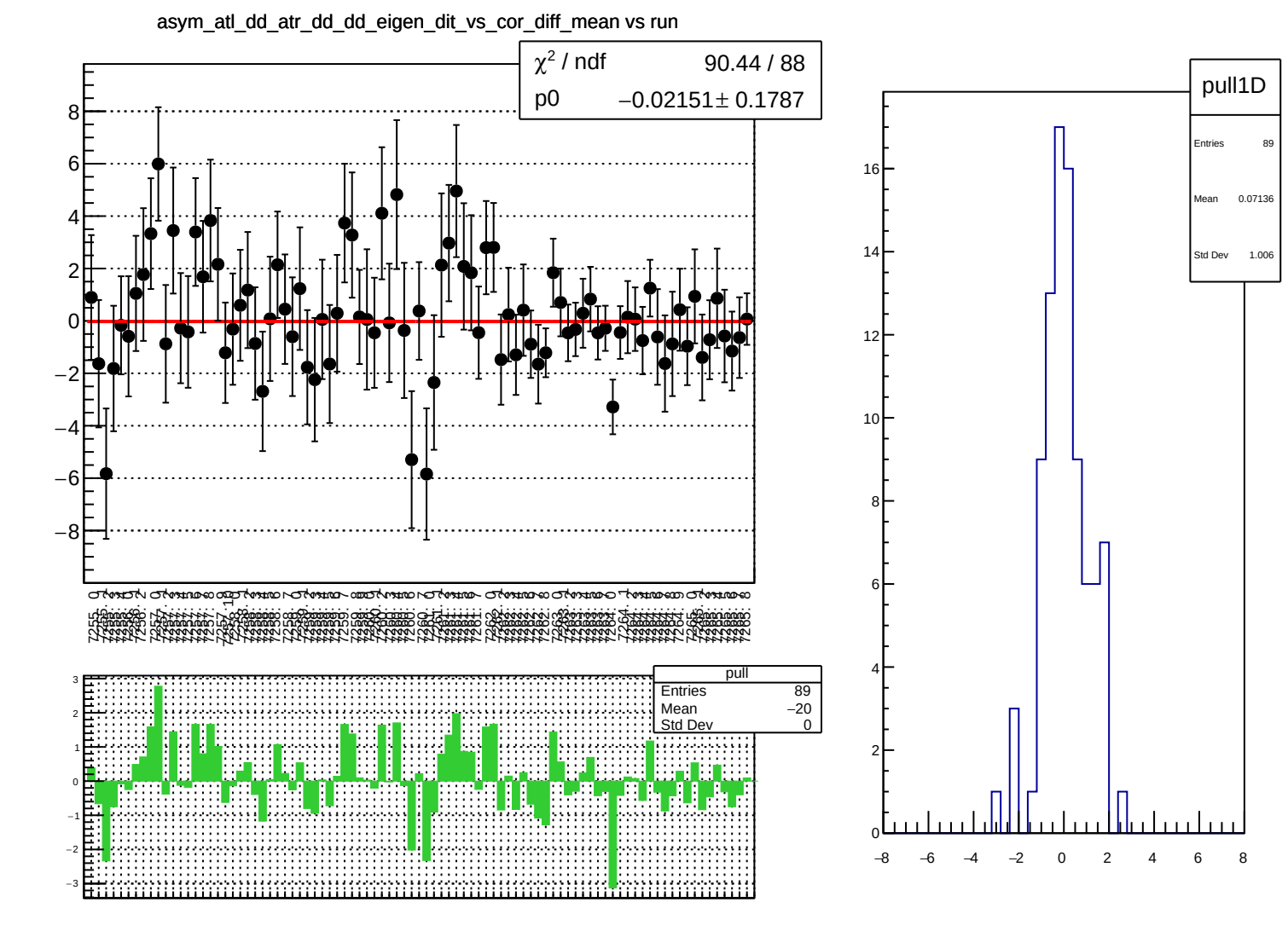

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.44 / 88
p0 −0.02151± 0.1787
pull
Entries 89
Mean −20
Std Dev 0
pull1D
Entries 89
Mean 0.07136
Std Dev 1.006

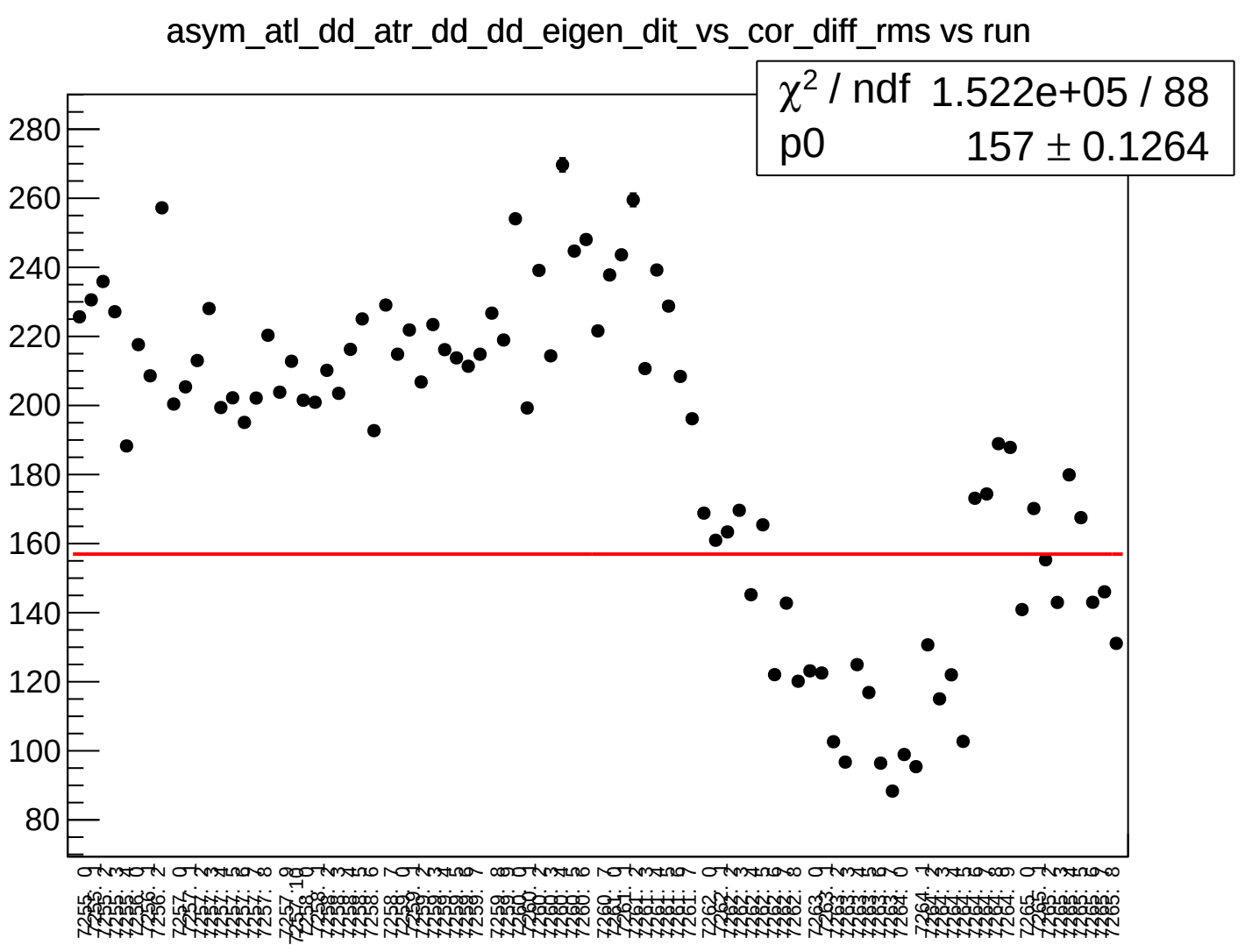

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.522e+05 / 88
p0 156.9 ± 0.1264
280
260
240
220
200
180
160
140
120
100
80

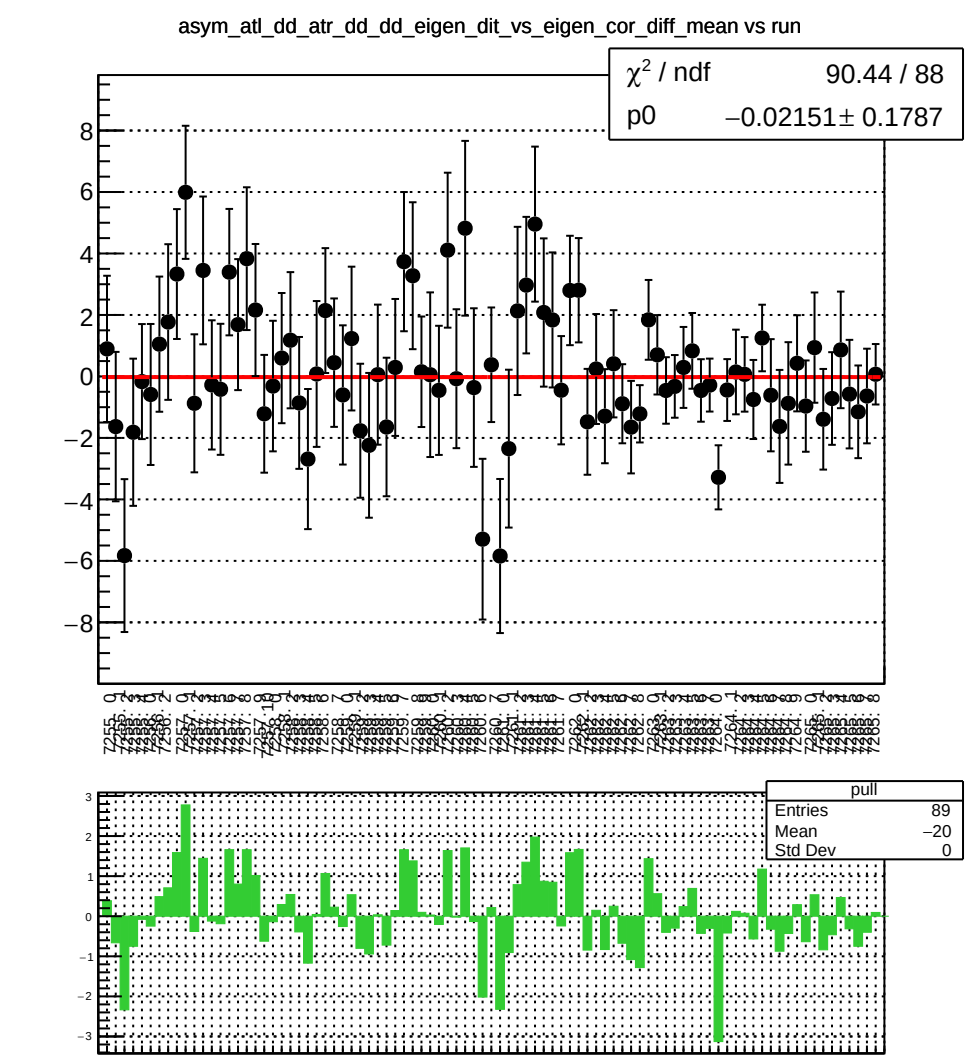

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 124.5 / 88
p0 1.218e−06 ± 1.079e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 89
Mean −116.6
Std Dev 0
2
1
0
−1
−2
−3

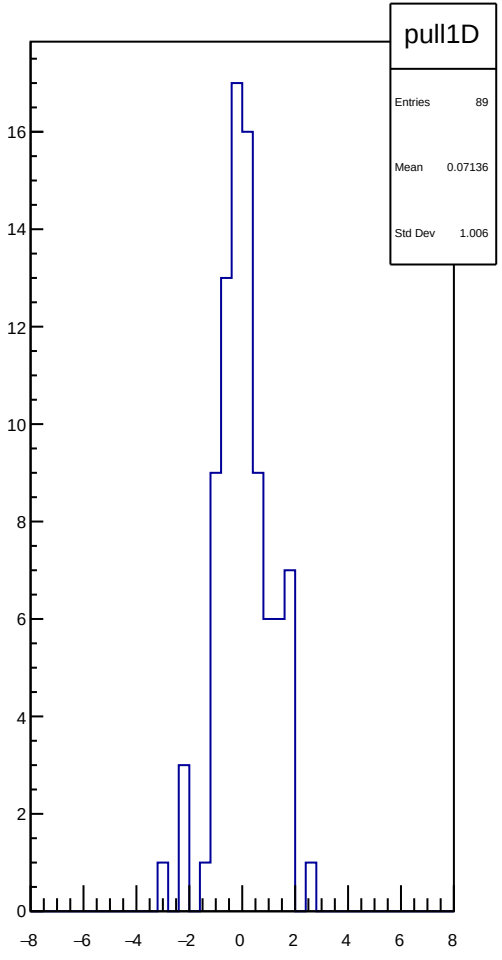

pull1D
Entries 89
Mean 0.02656
Std Dev 1.182
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

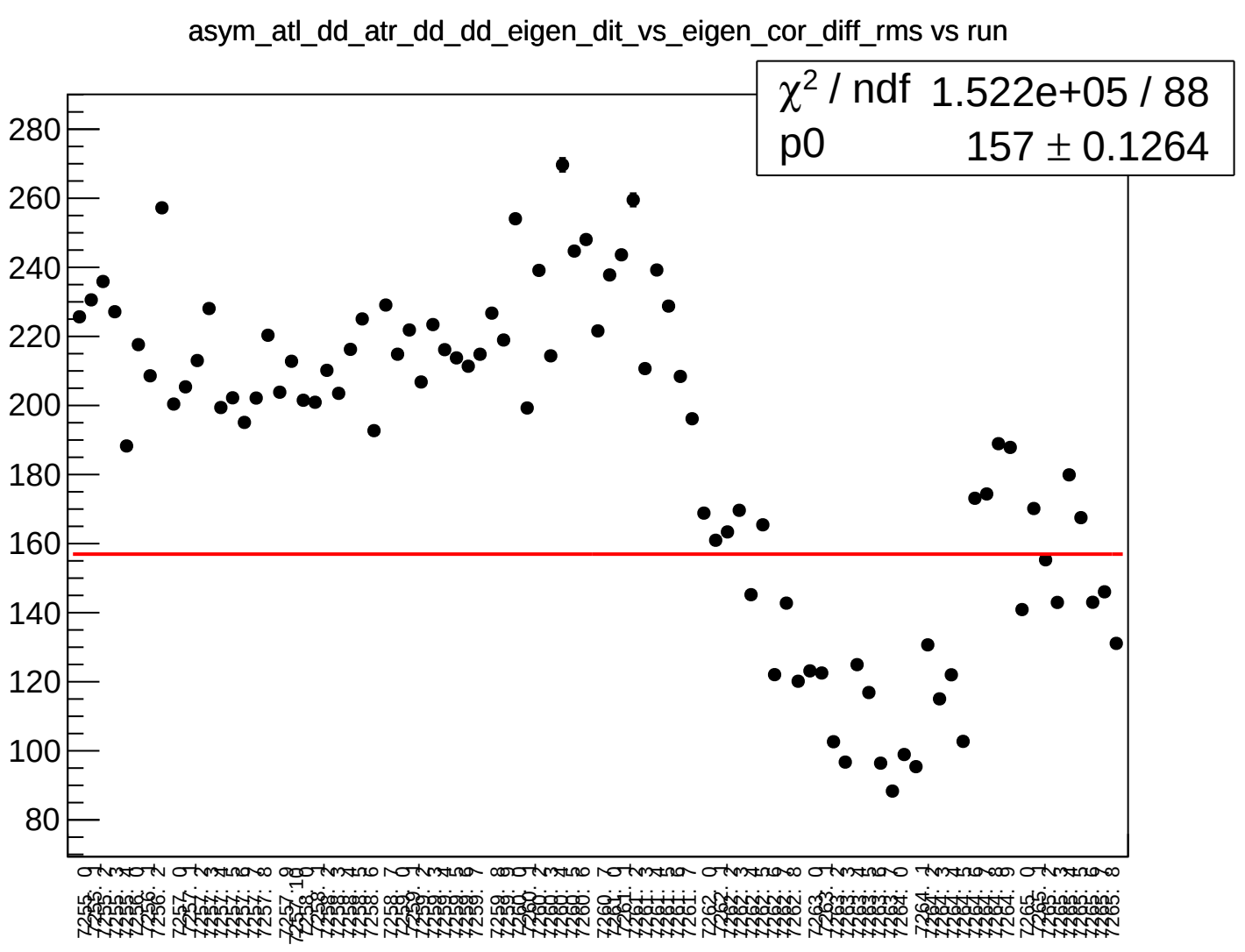

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1206 / 88
p0 0.000993 ± 7.63e–07
0.0011
0.00108
0.00106
0.00104
0.00102
0.001
0.00098
0.00096
0.00094

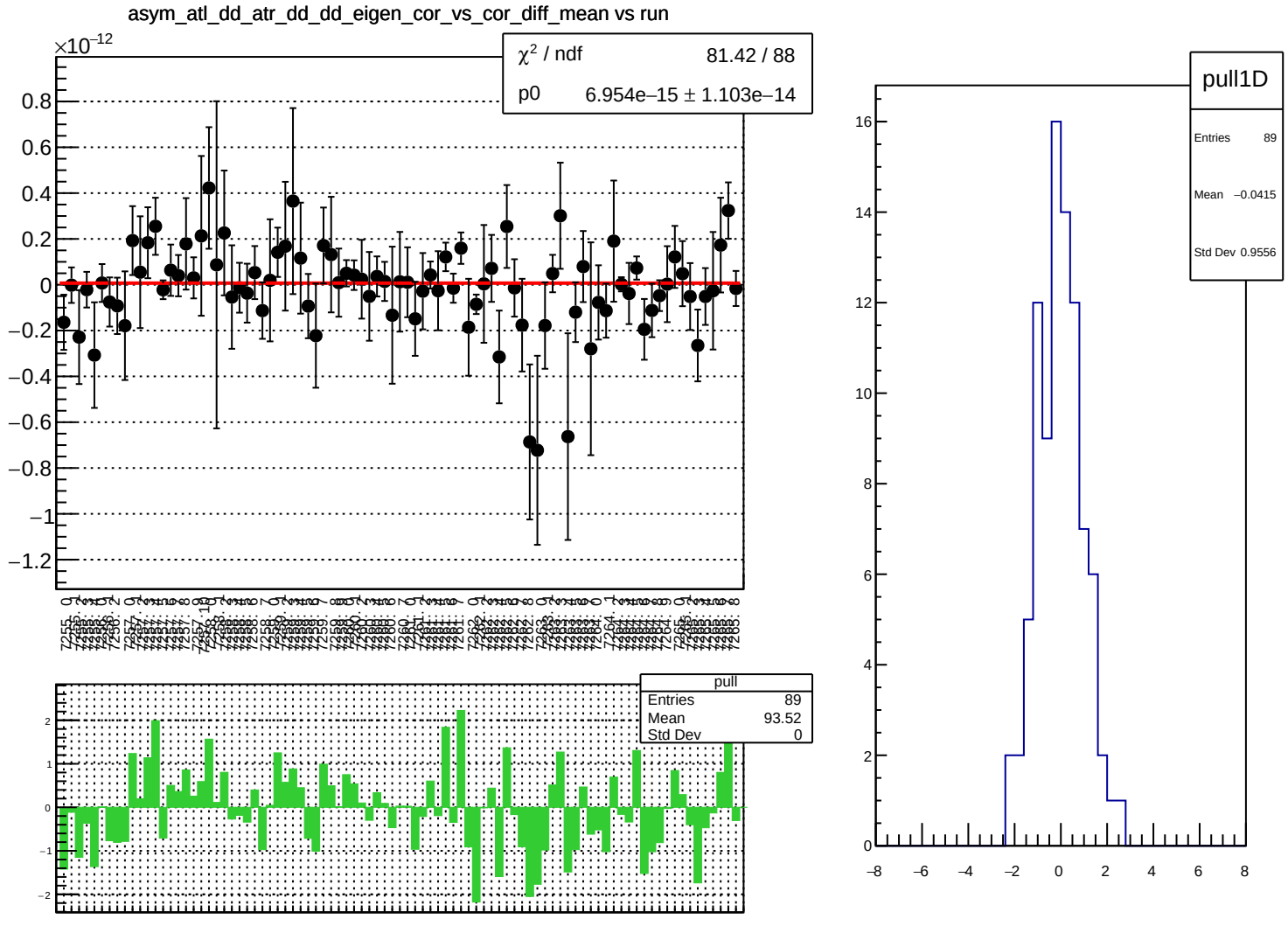

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.44 / 88
p0 −0.02151± 0.1787
pull
Entries 89
Mean −20
Std Dev 0
pull1D
Entries 89
Mean 0.07136
Std Dev 1.006

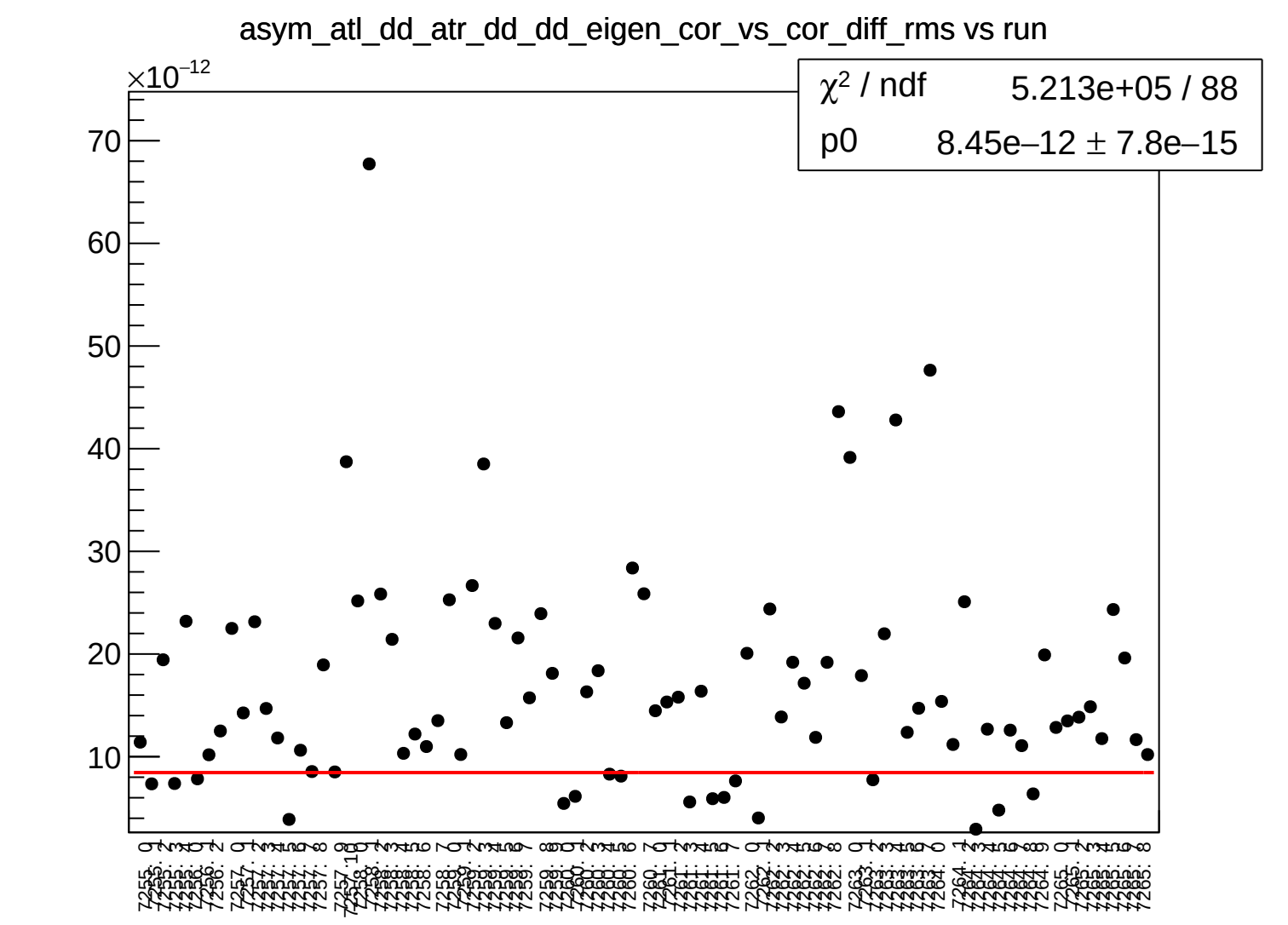

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.522e+05 / 88
p0 157 ± 0.1264
280
260
240
220
200
180
160
140
120
100
80

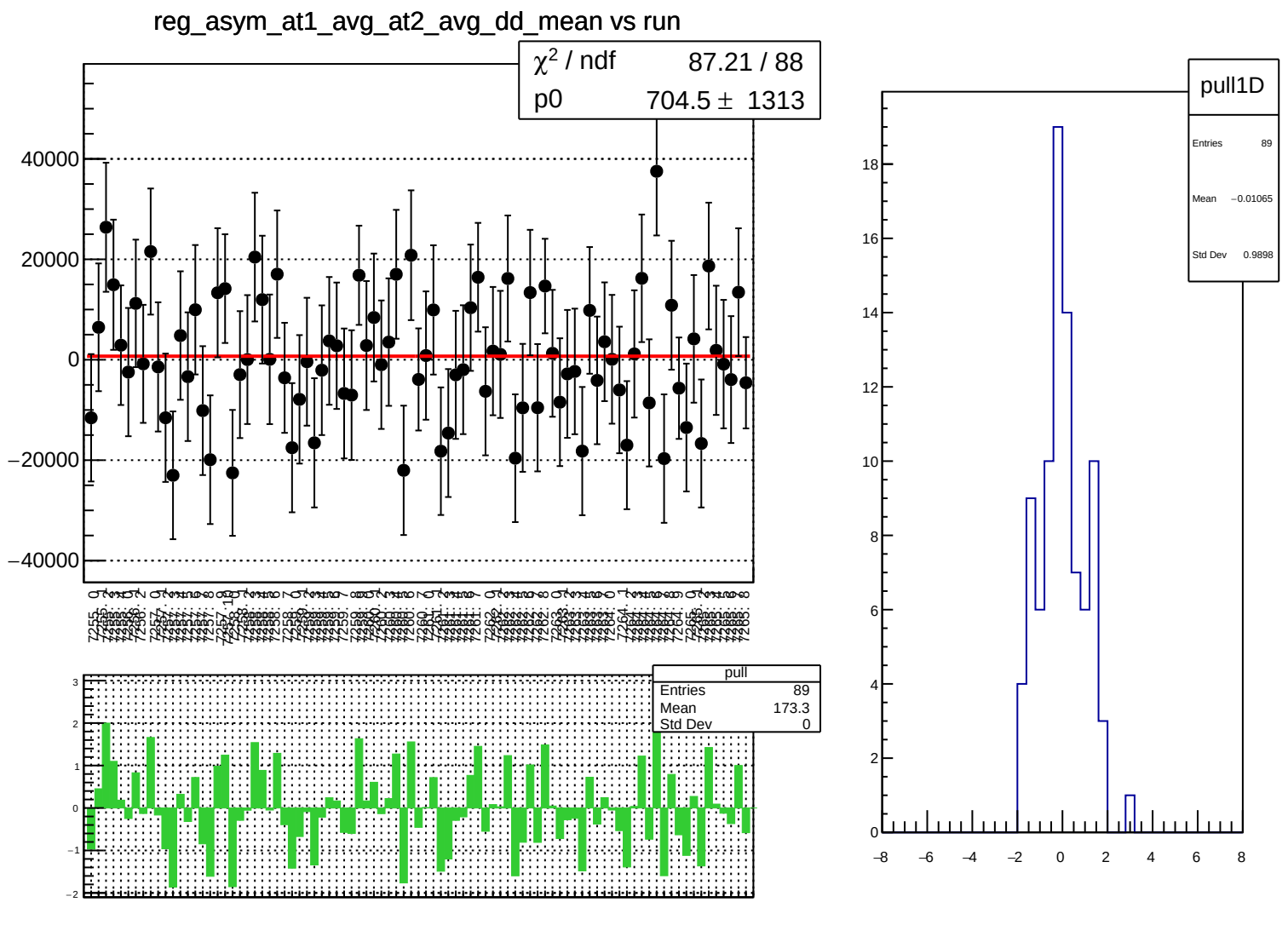

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.44 / 88
p0 −0.02151± 0.1787
pull
Entries 89
Mean −20
Std Dev 0

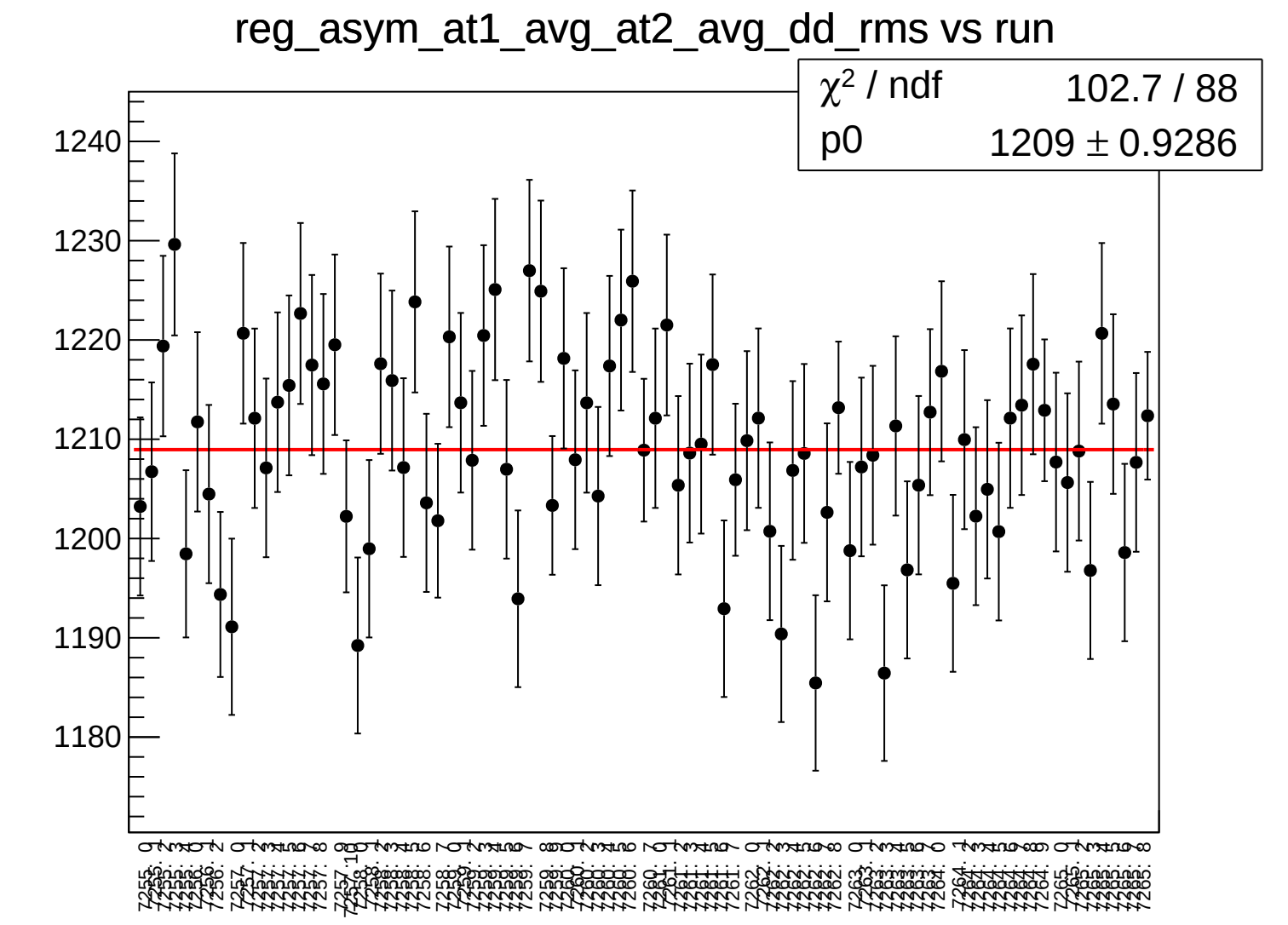

pull1D
Entries 89
Mean 0.07136
Std Dev 1.006

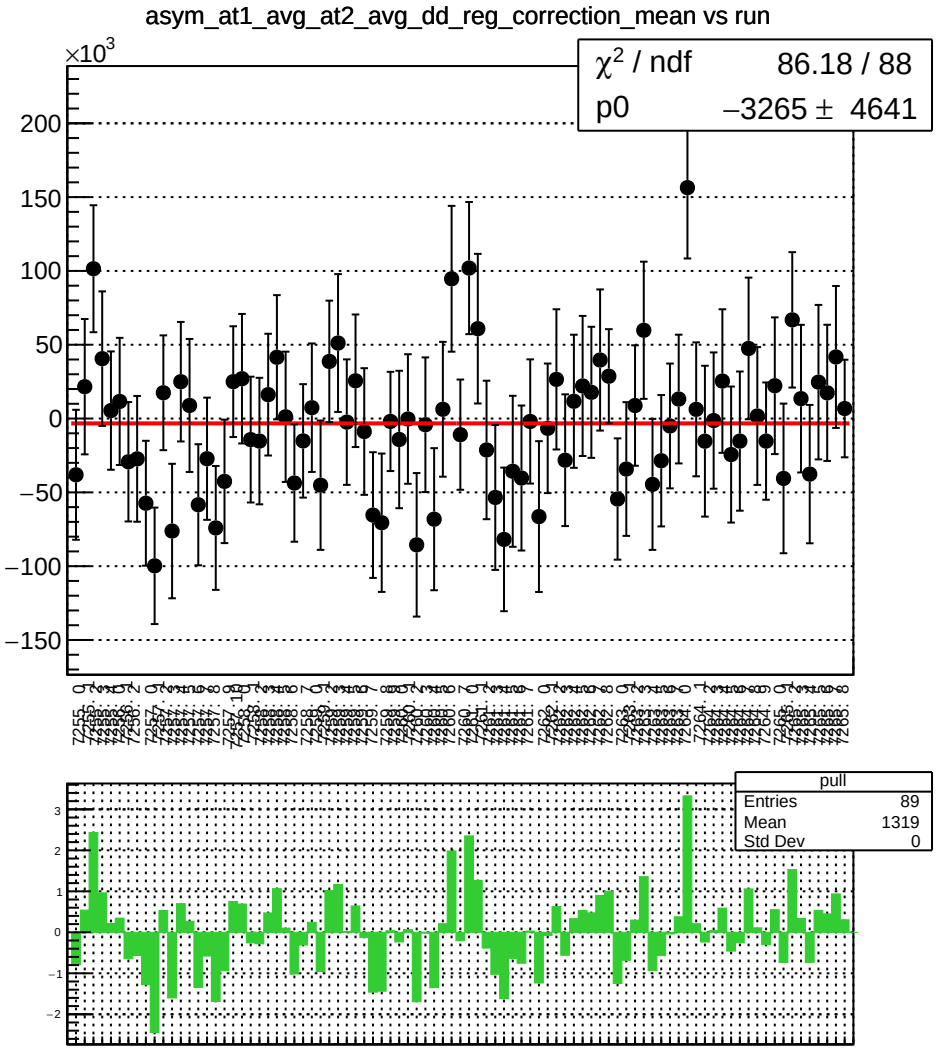

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.522e+05 / 88
p0 157 ± 0.1264
280
260
240
220
200
180
160
140
120
100
80

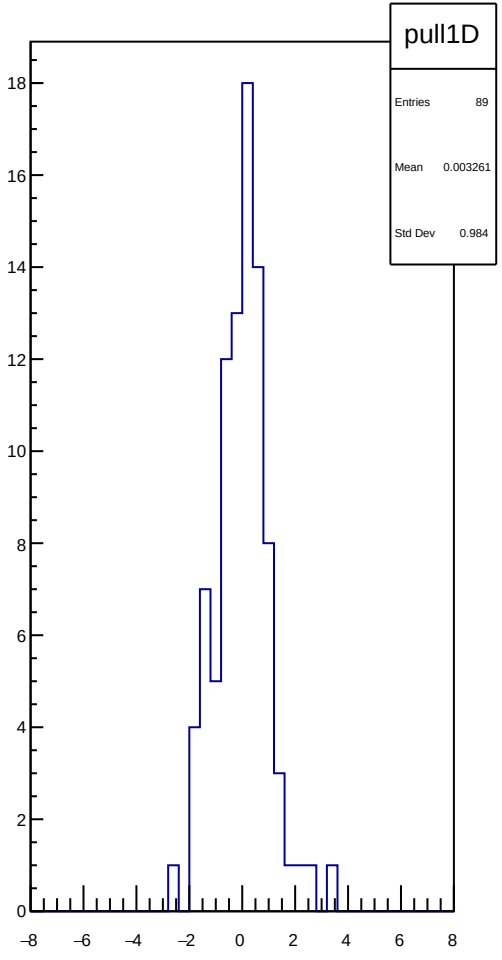

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.42 / 88
p0 6.954e−15 ± 1.103e−14
pull
Entries 89
Mean 93.52
Std Dev 0
pull1D
Entries 89
Mean −0.0415
Std Dev 0.9556

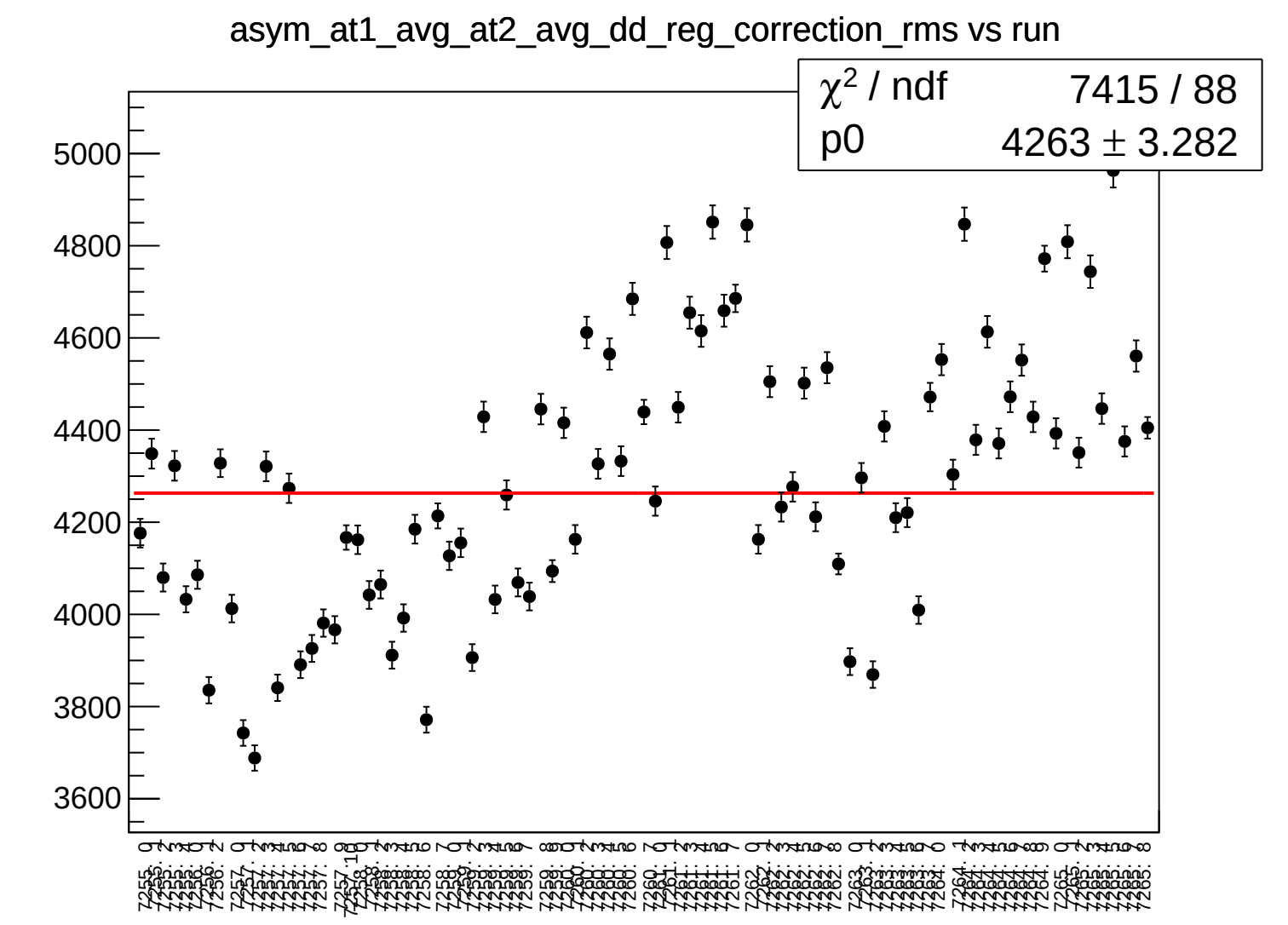

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.213e+05 / 88
p0 8.45e−12 ± 7.8e−15
70
60
50
40
30
20
10

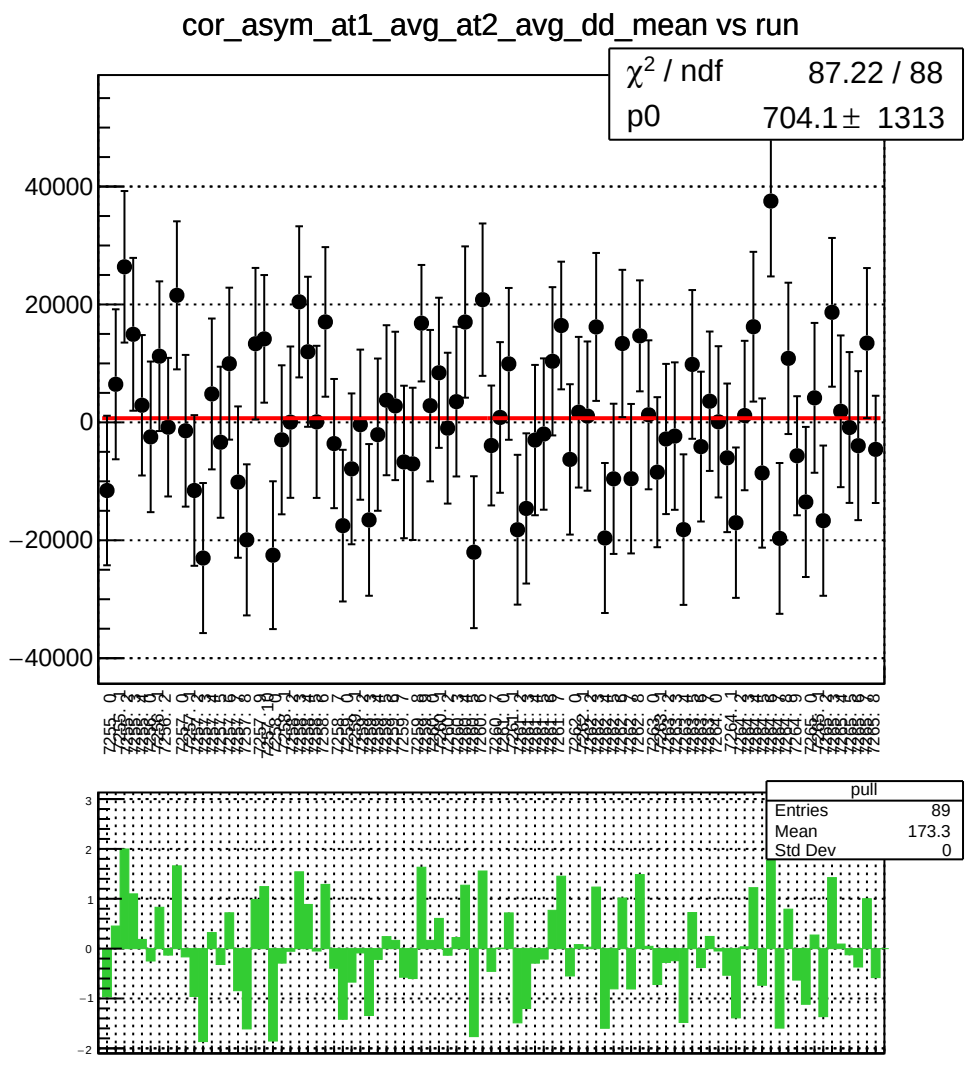

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 87.21 / 88
p0 704.5 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 173.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01065
Std Dev 0.9898
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

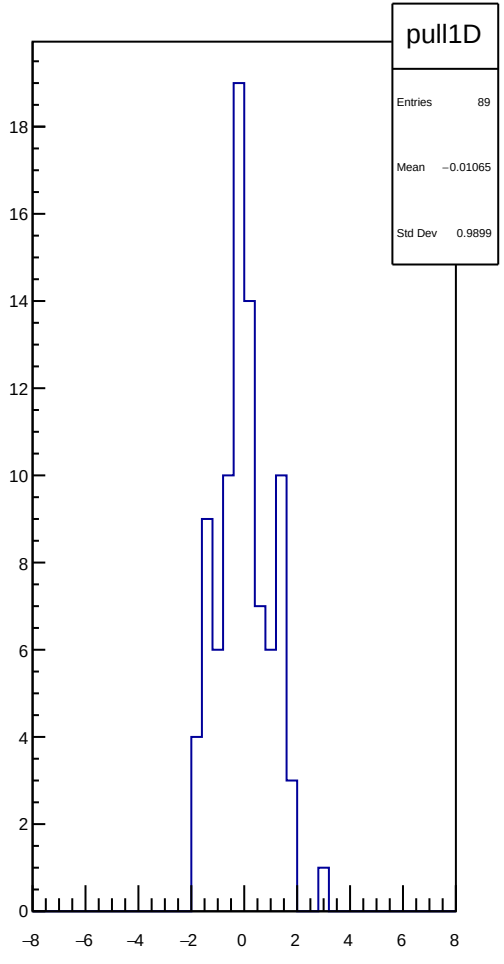

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 102.7 / 88
p0 1209 ± 0.9286
1240
1230
1220
1210
1200
1190
1180

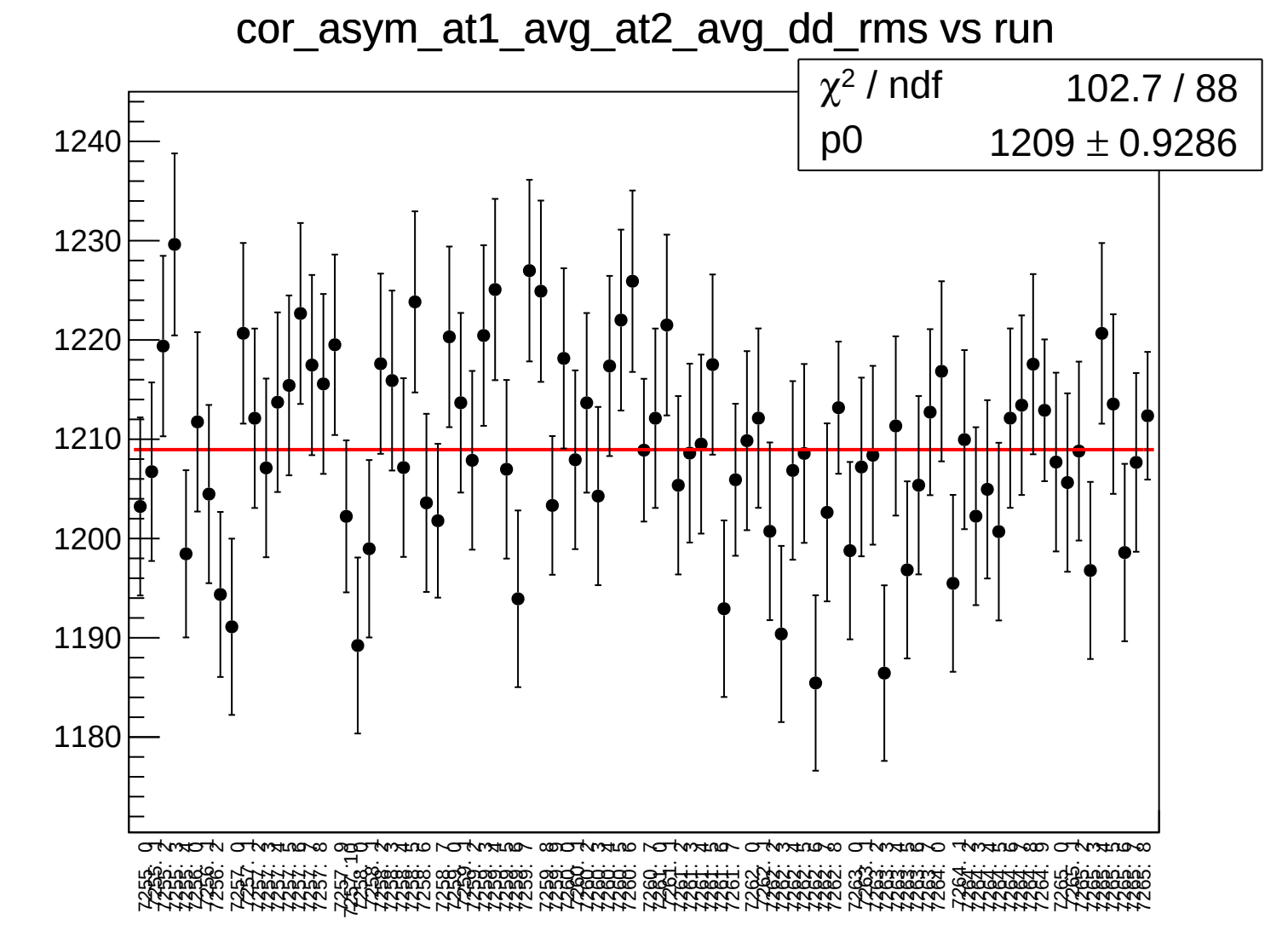

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.18 / 88
p0 −3265 ± 4641
pull
Entries 89
Mean 1319
Std Dev 0

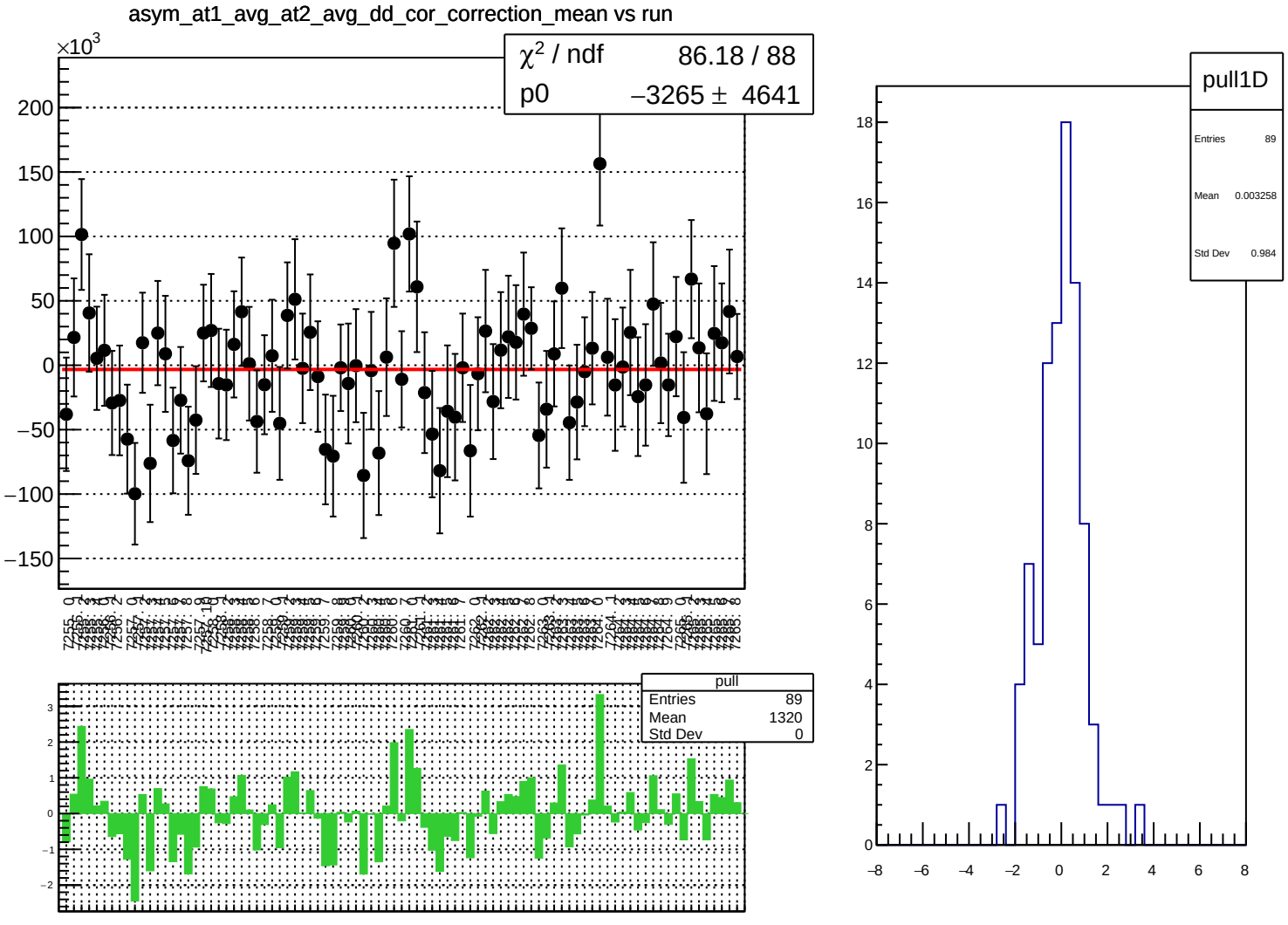

pull1D
Entries 89
Mean 0.003261
Std Dev 0.984

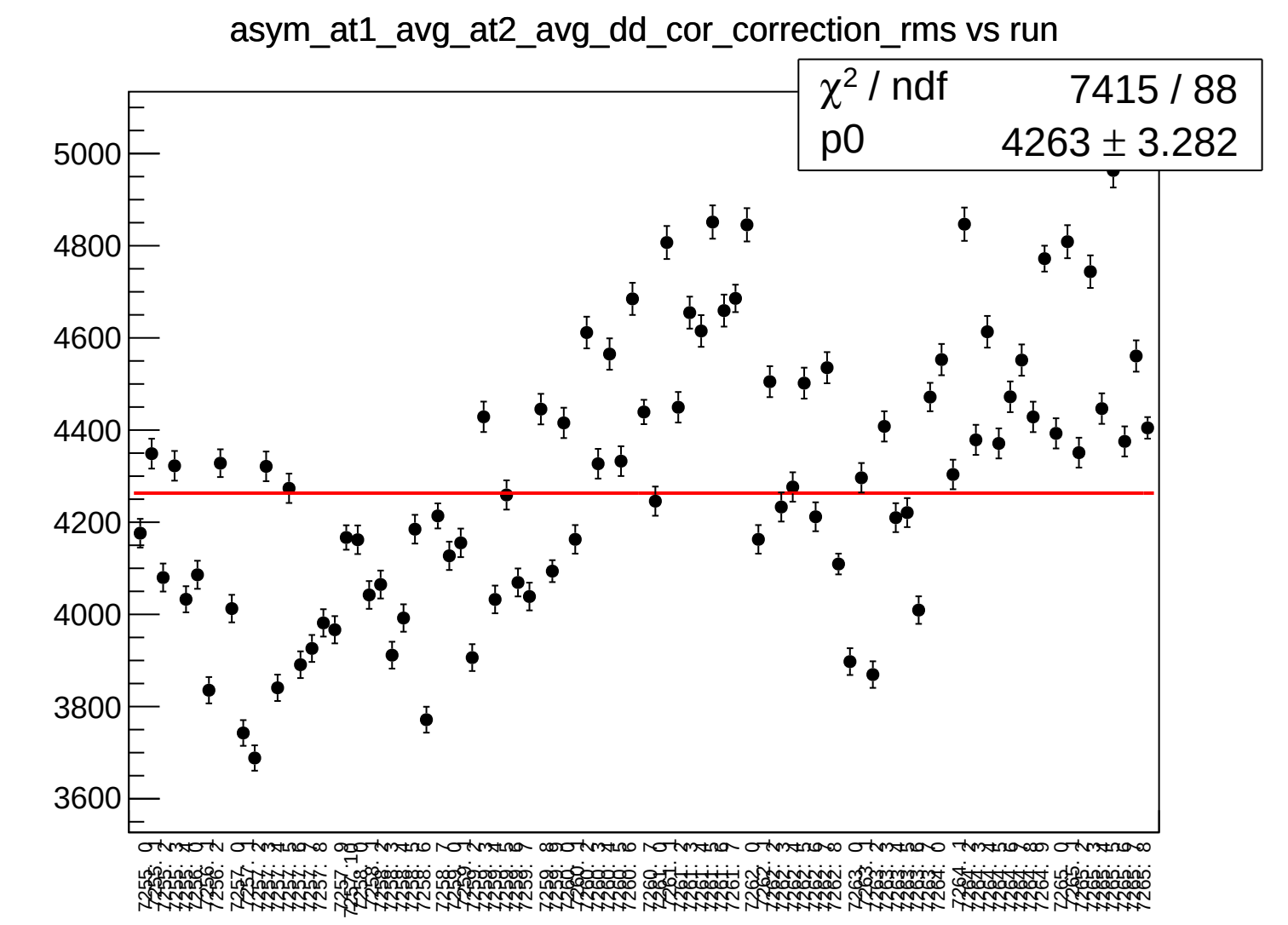

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 7415 / 88
p0 4263 ± 3.282
5000
4800
4600
4400
4200
4000
3800
3600

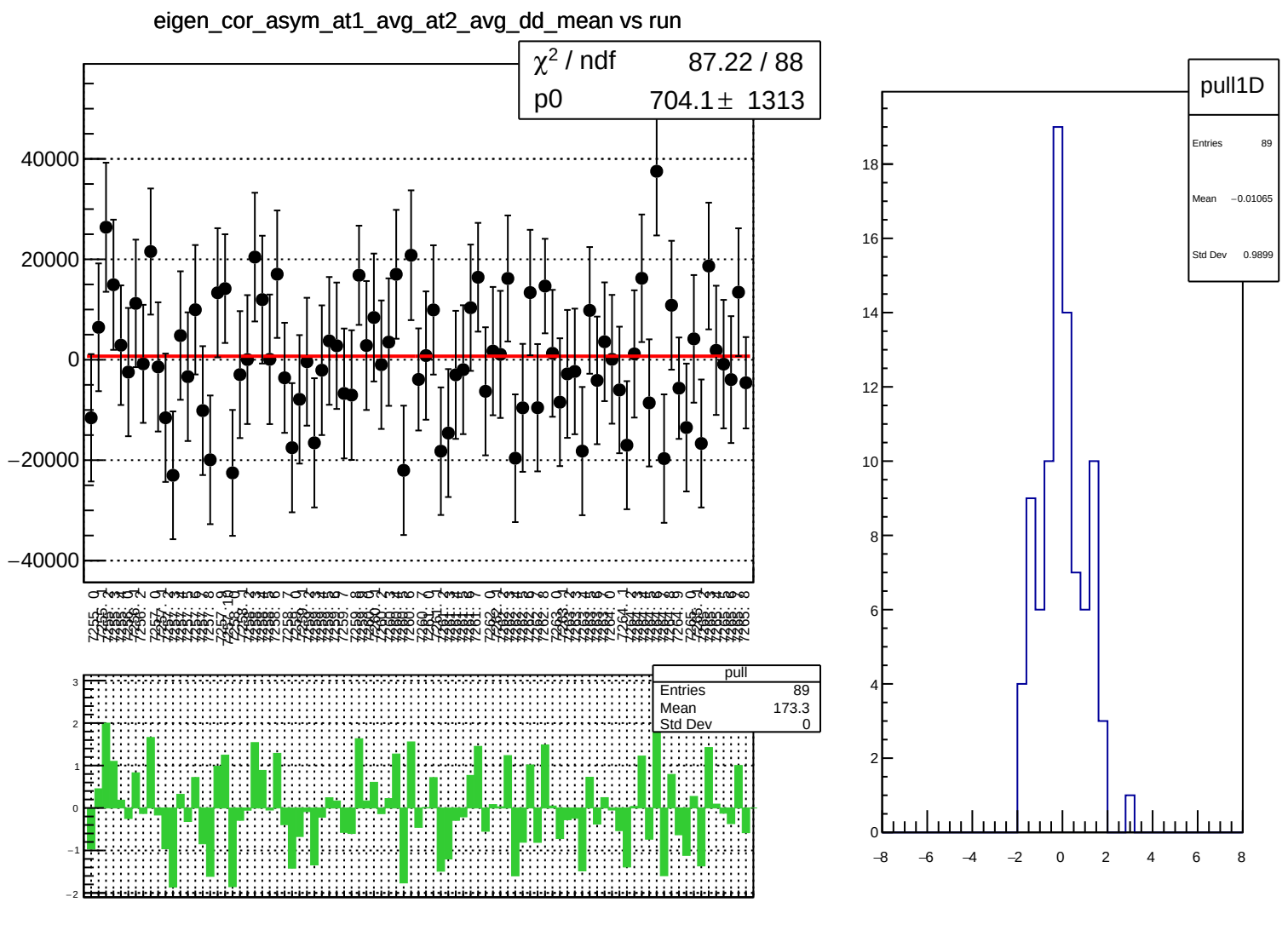

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 87.22 / 88
p0 704.1 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 173.3
Std Dev 0
3
2
1
0
−1
−2

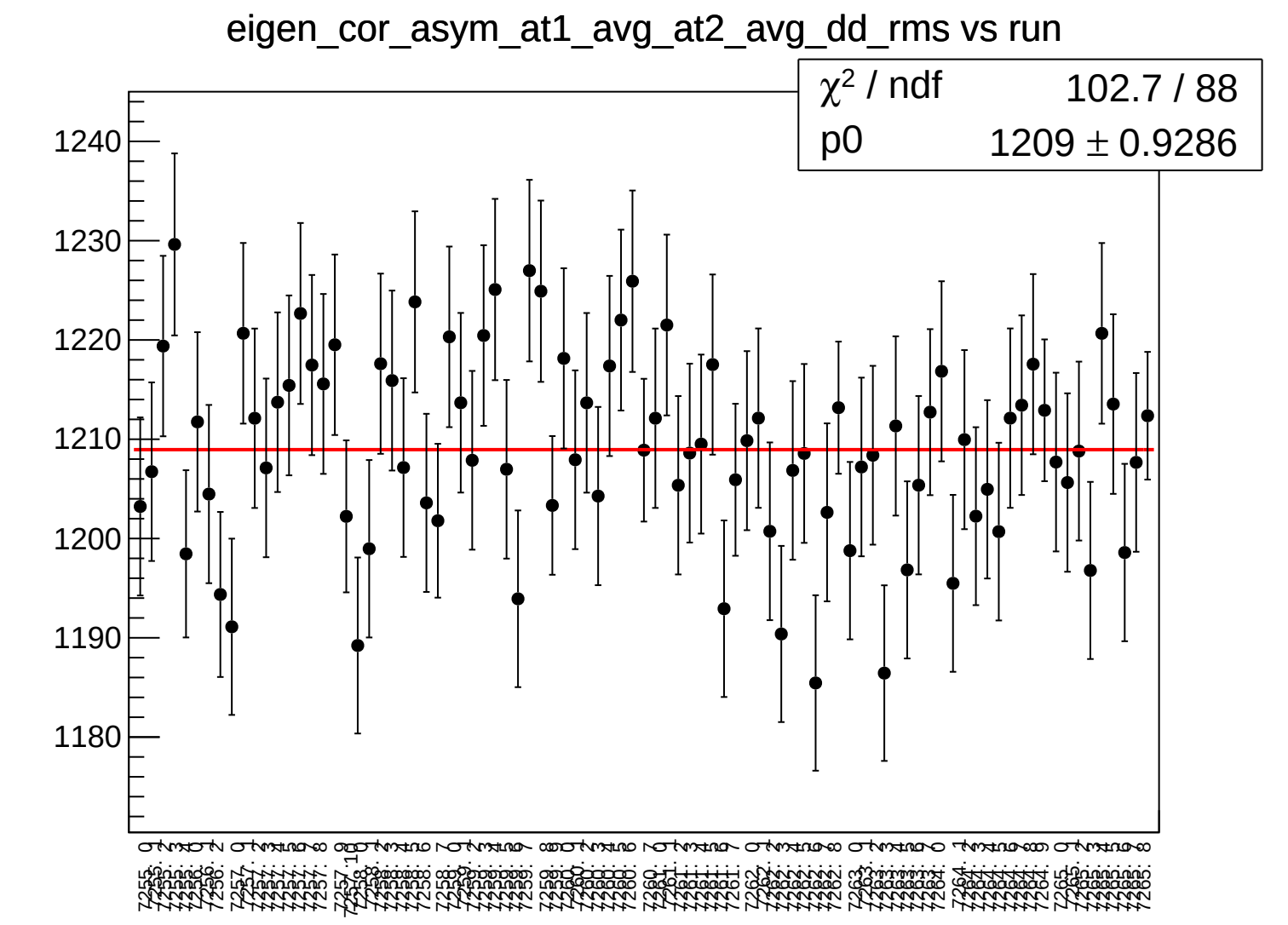

pull1D
Entries 89
Mean −0.01065
Std Dev 0.9899
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

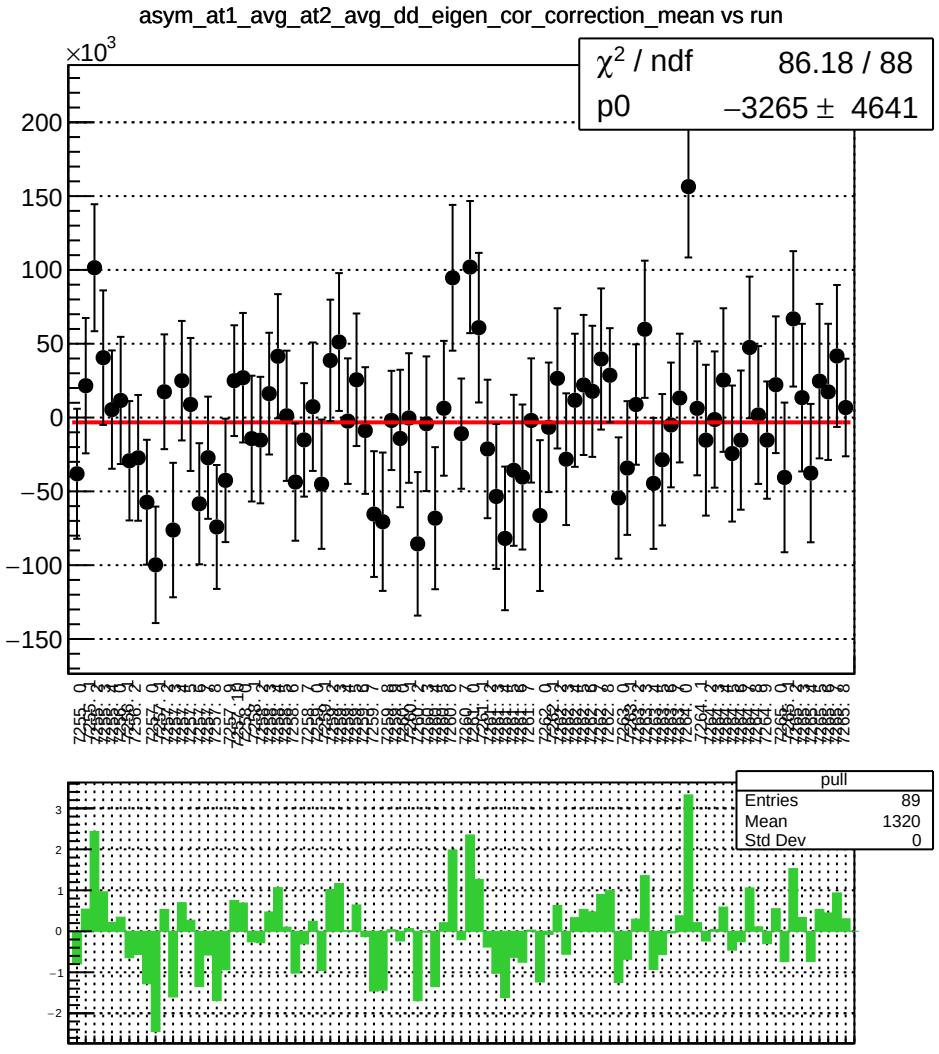

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 102.7 / 88
p0 1209 ± 0.9286
1240
1230
1220
1210
1200
1190
1180

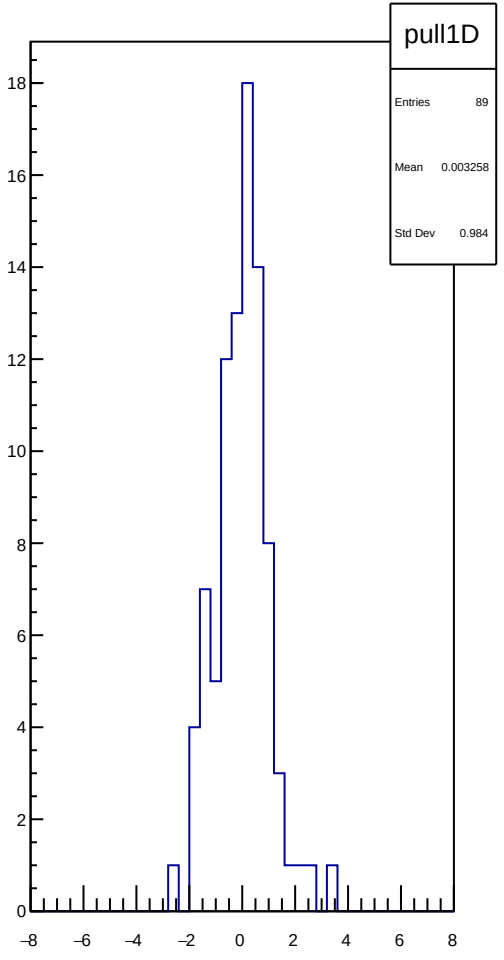

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.18 / 88
p0 −3265 ± 4641
pull
Entries 89
Mean 1320
Std Dev 0
pull1D
Entries 89
Mean 0.003258
Std Dev 0.984

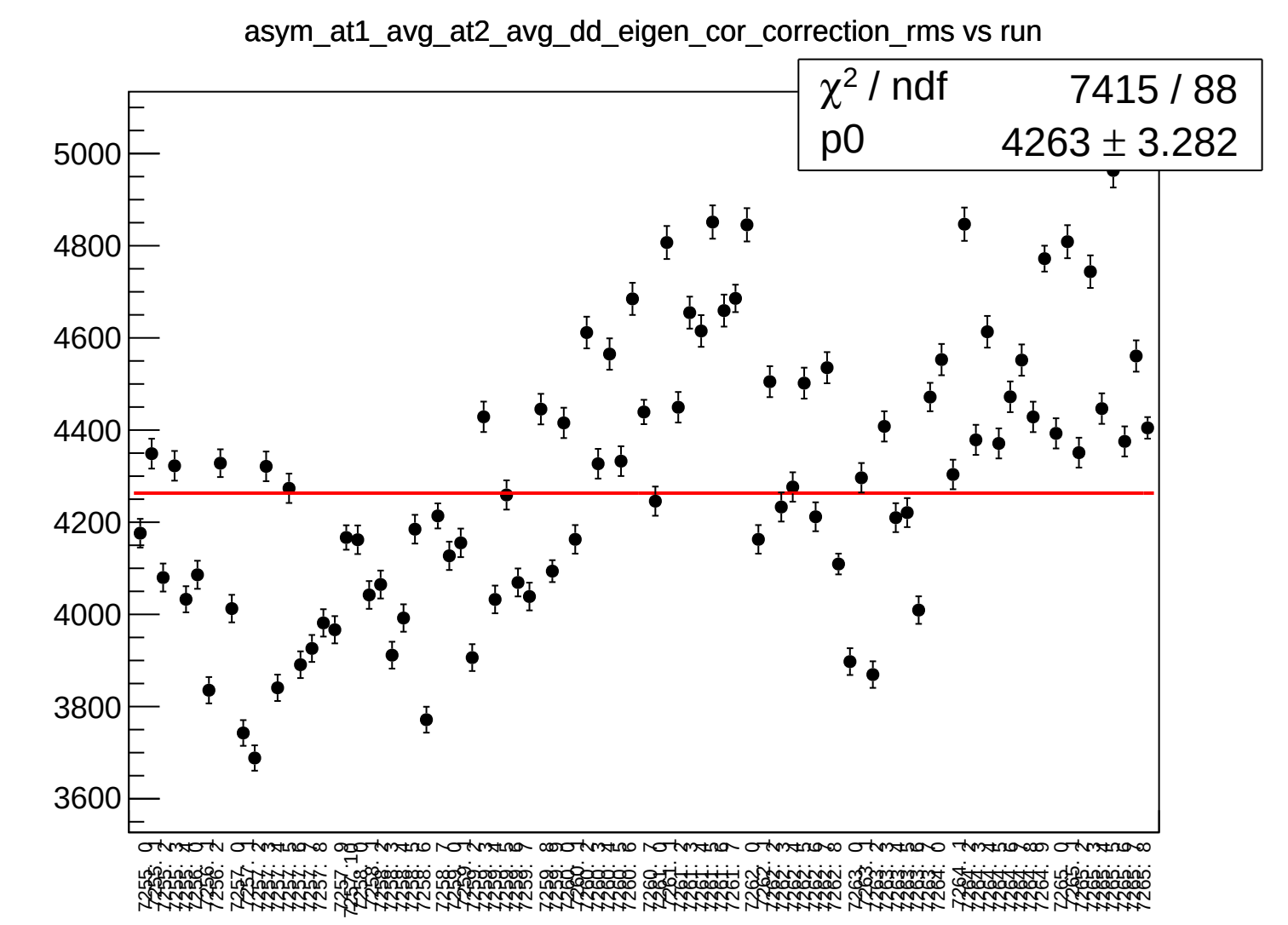

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ^2 / ndf 7415 / 88
p0 4263 ± 3.282
5000
4800
4600
4400
4200
4000
3800
3600

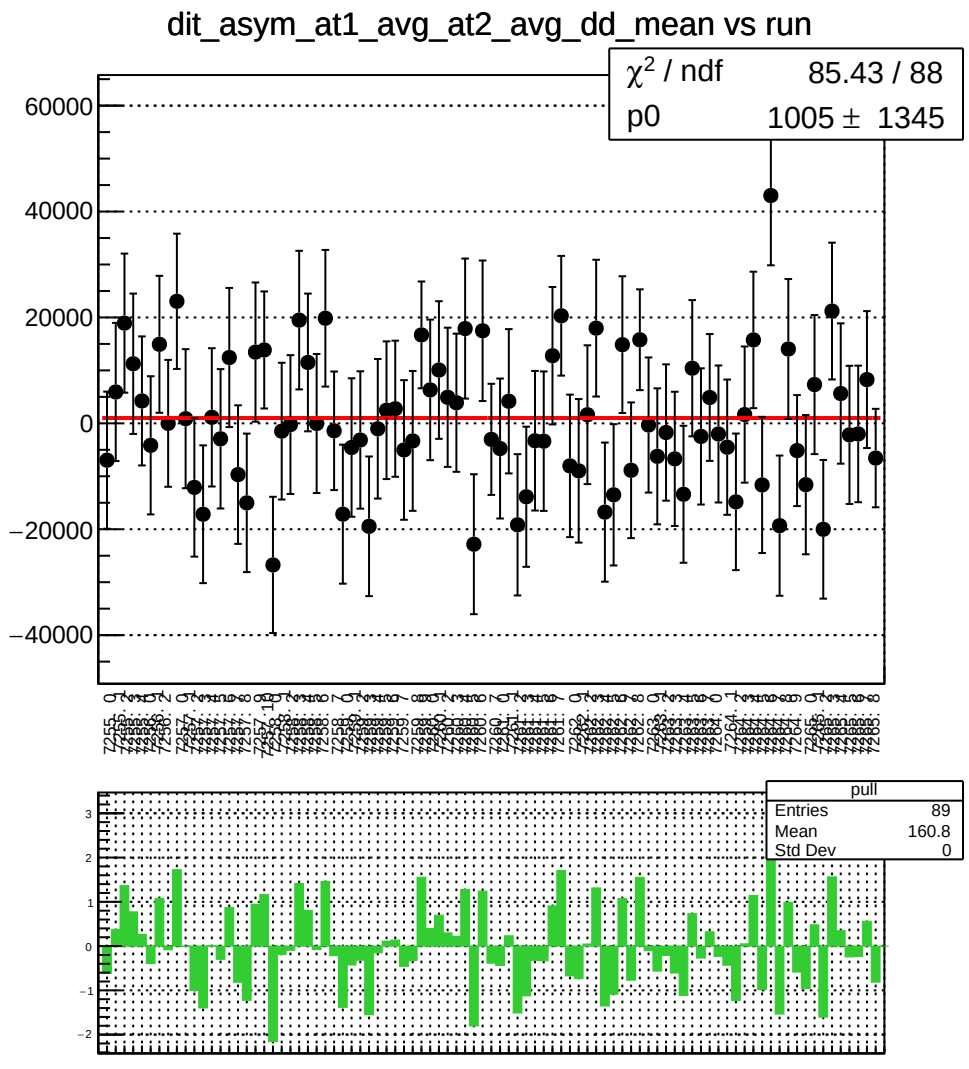

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 87.22 / 88
p0 704.1 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 173.3
Std Dev 0
pull1D
Entries 89
Mean −0.01065
Std Dev 0.9899

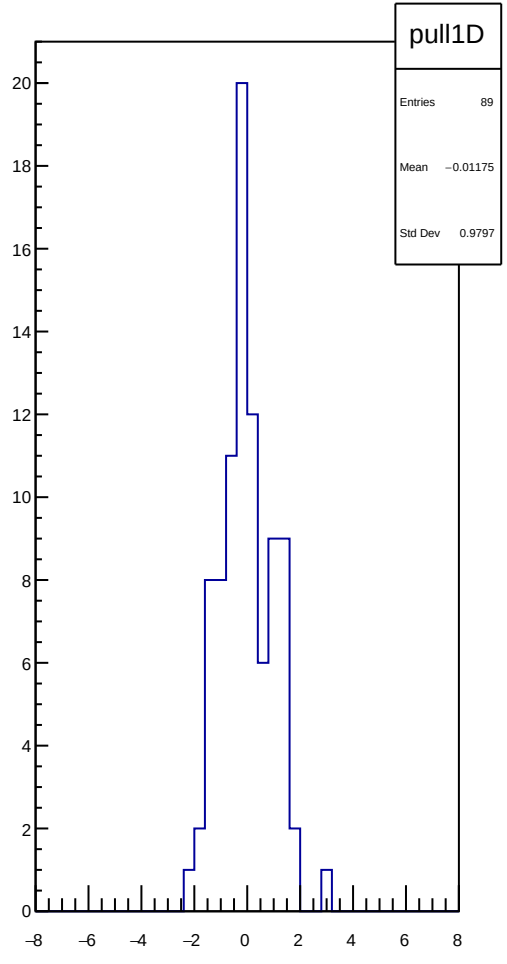

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 102.7 / 88
p0 1209 ± 0.9286
1240
1230
1220
1210
1200
1190
1180

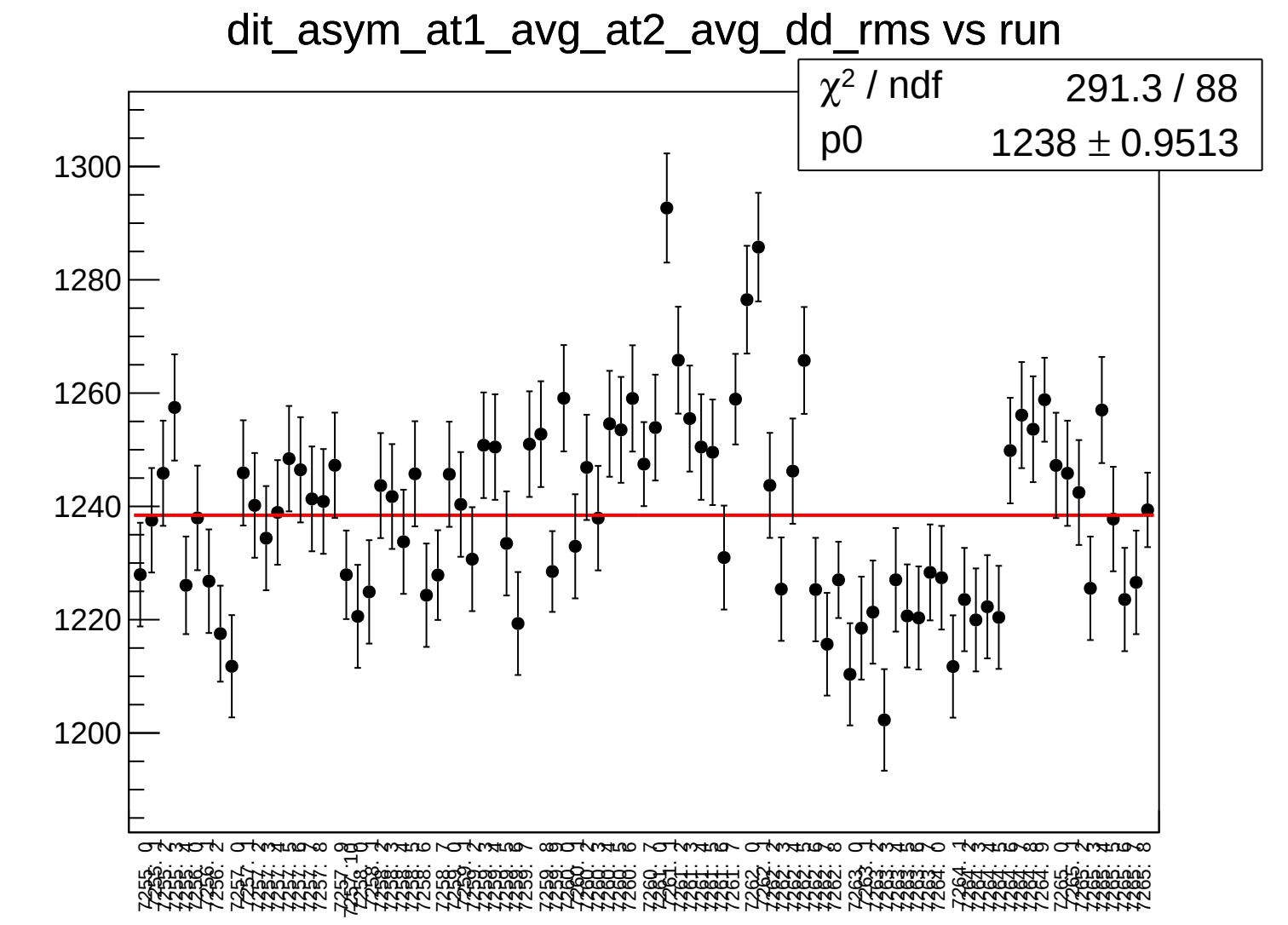

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.18 / 88
p0 −3265 ± 4641
pull
Entries 89
Mean 1320
Std Dev 0

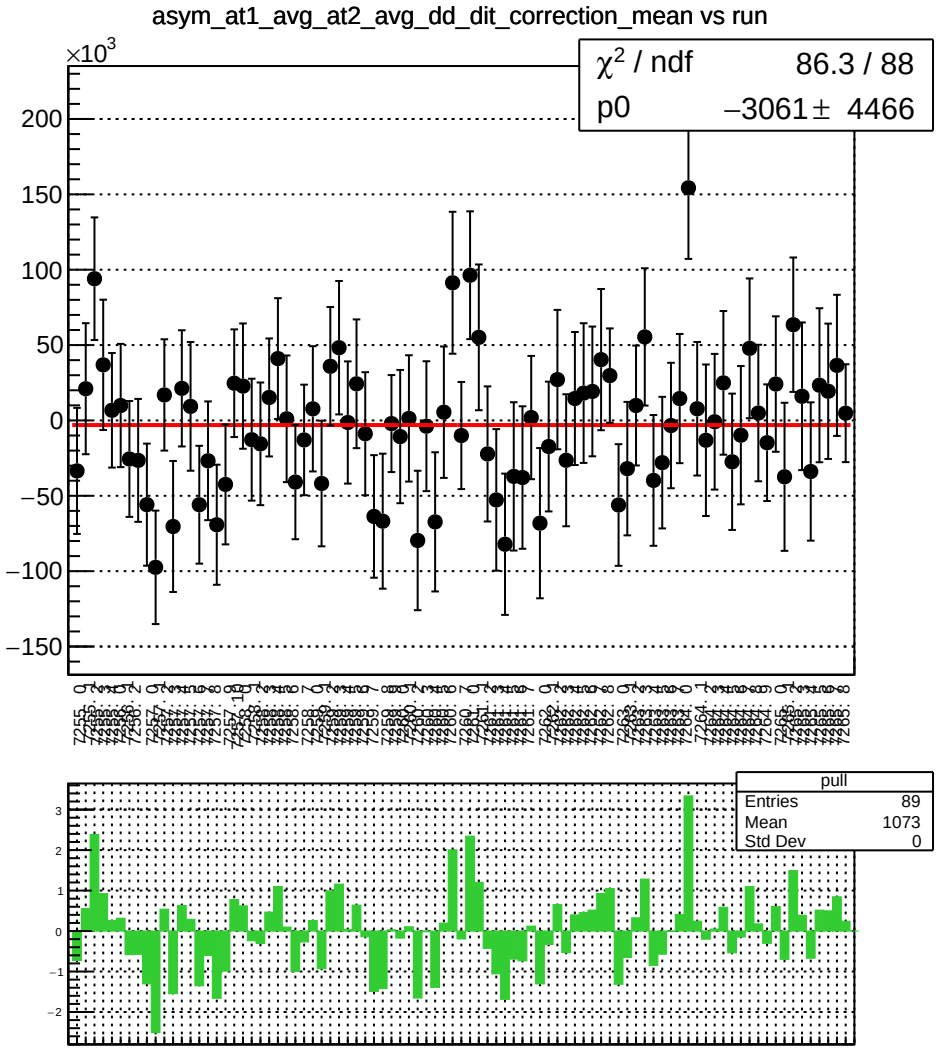

pull1D
Entries 89
Mean 0.003258
Std Dev 0.984

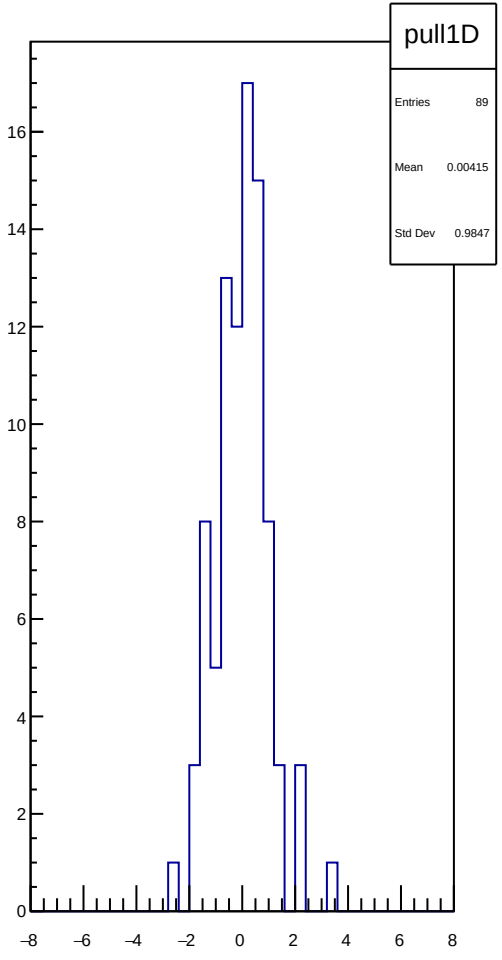

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7415 / 88
p0 4263 ± 3.282
5000
4800
4600
4400
4200
4000
3800
3600

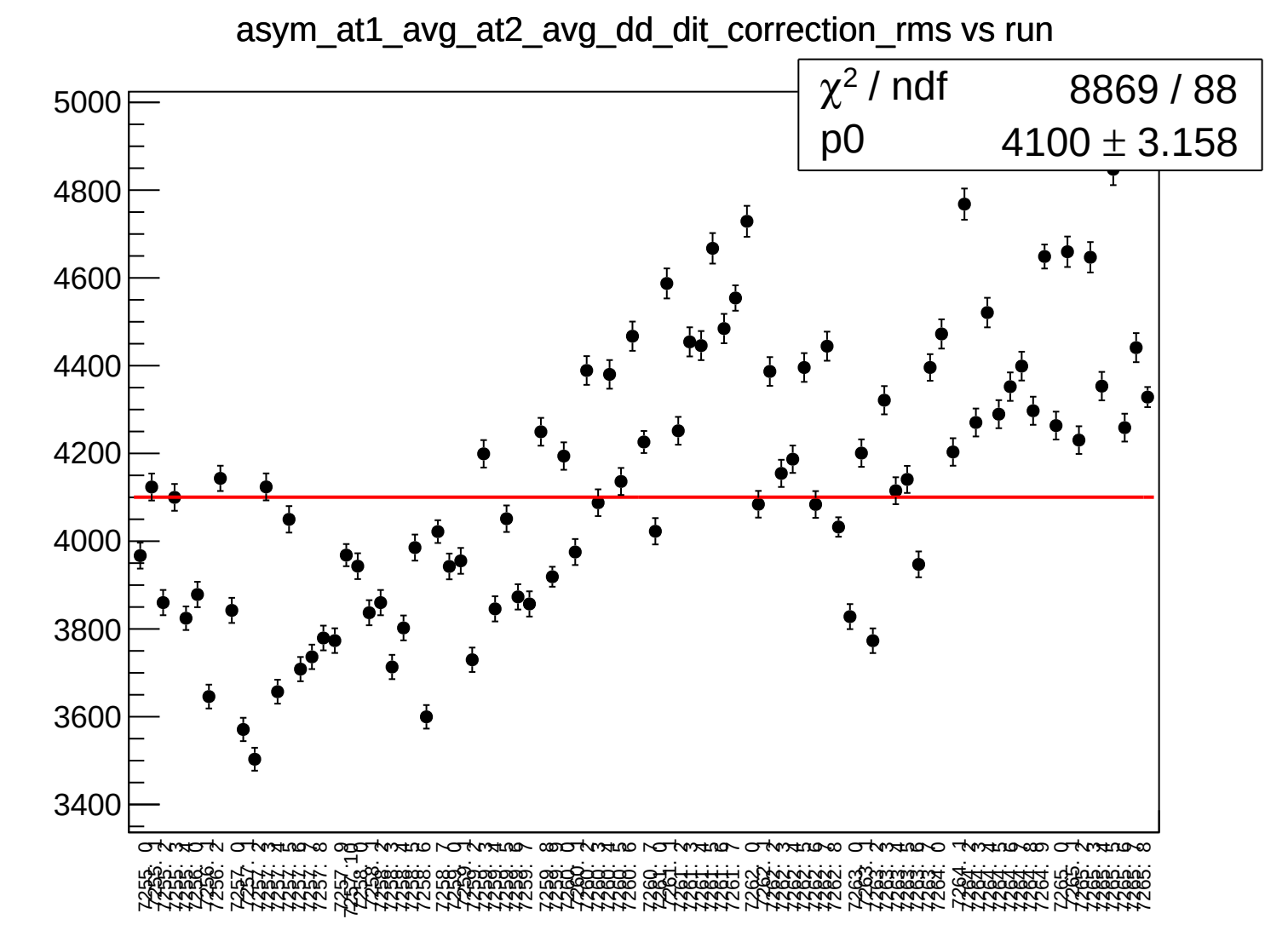

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 85.43 / 88
p0 1005 ± 1345
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 160.8
Std Dev 0
3
2
1
0
−1
−2

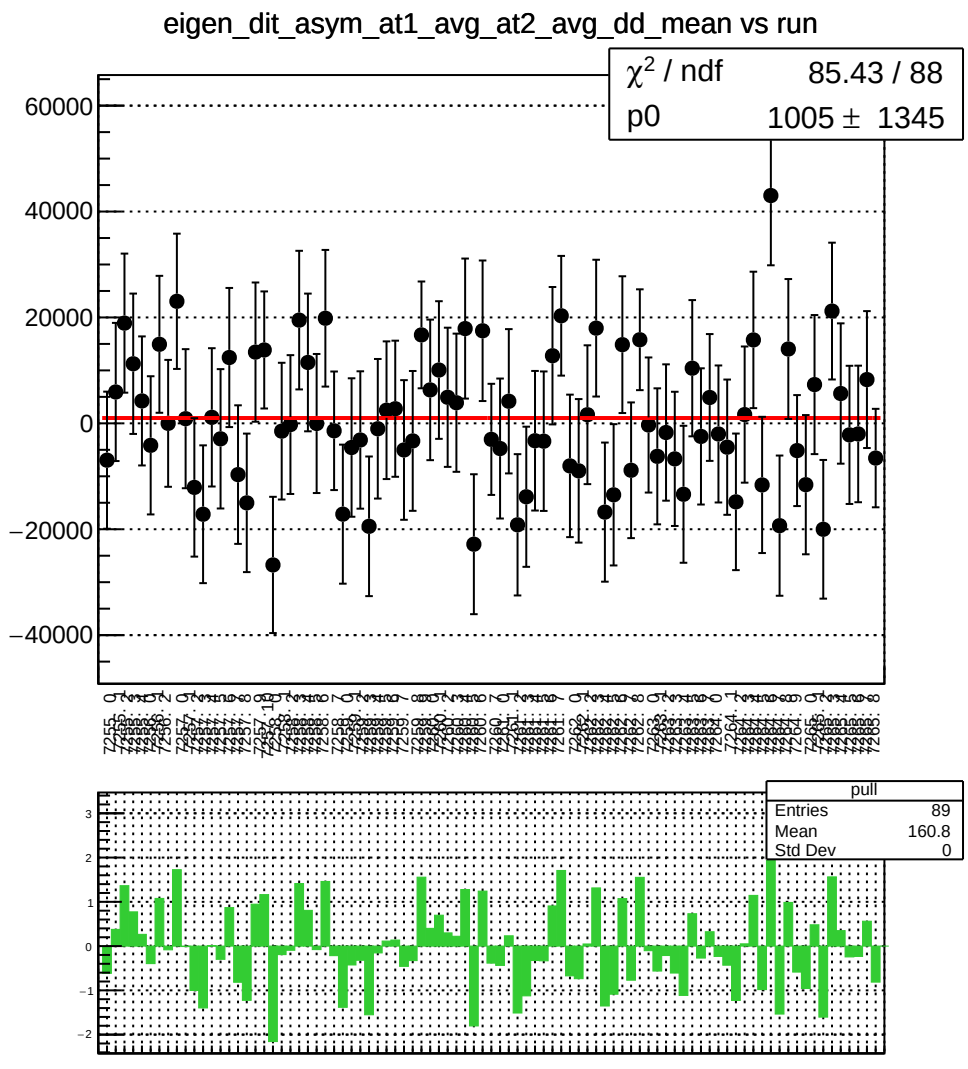

pull1D
Entries 89
Mean −0.01175
Std Dev 0.9797
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

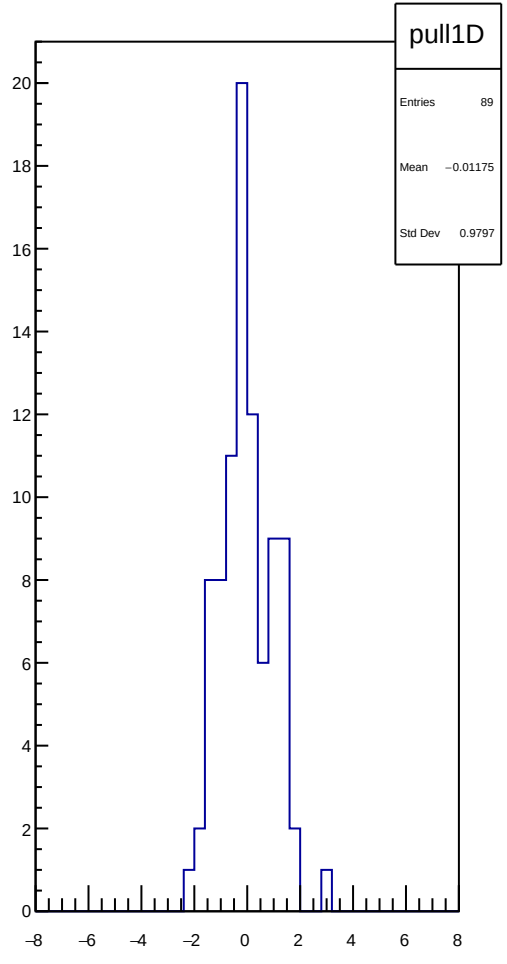

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 291.3 / 88
p0 1238 ± 0.9513
1300
1280
1260
1240
1220
1200

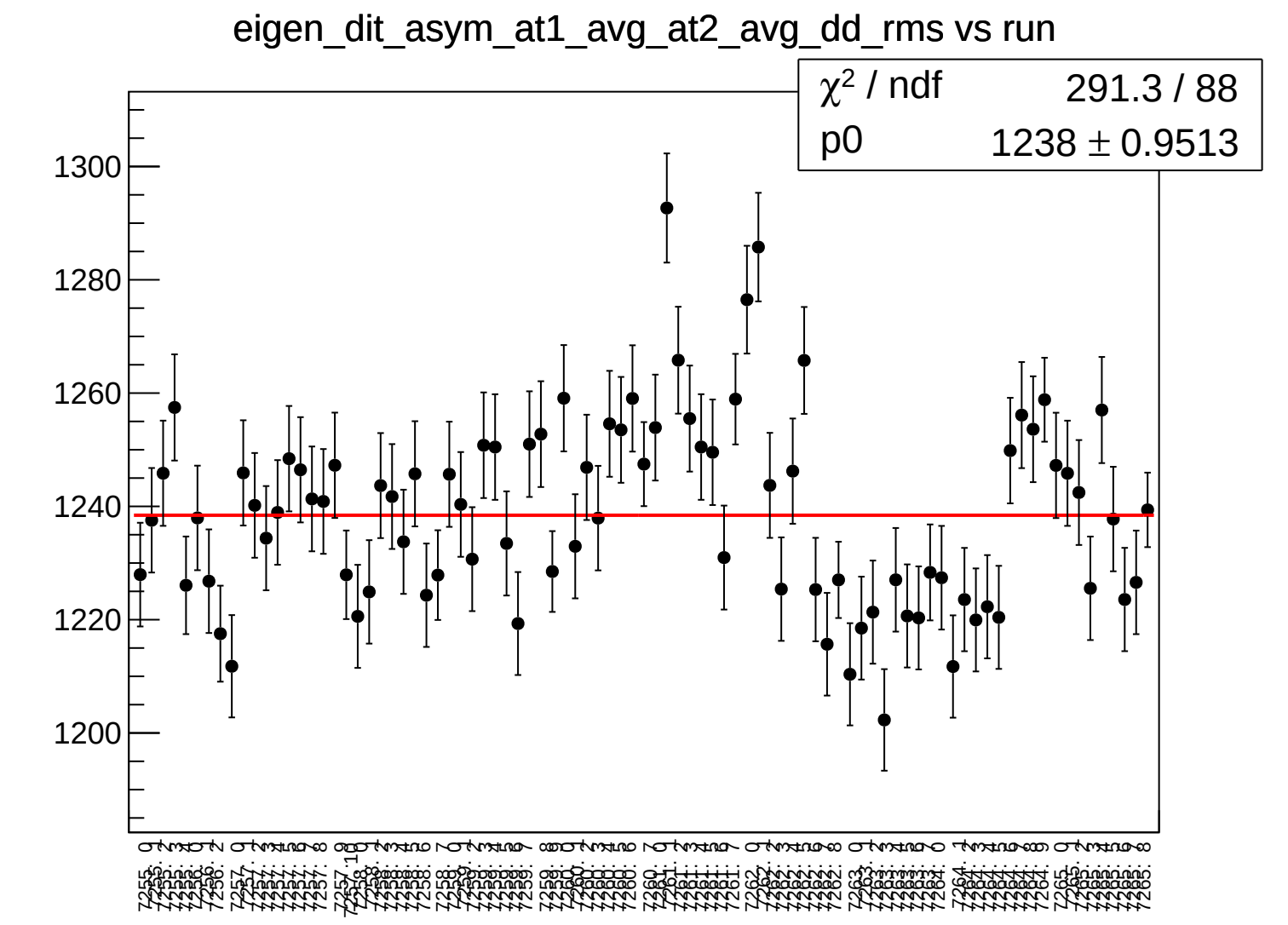

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.3 / 88
p0 −3061 ± 4466
pull
Entries 89
Mean 1073
Std Dev 0

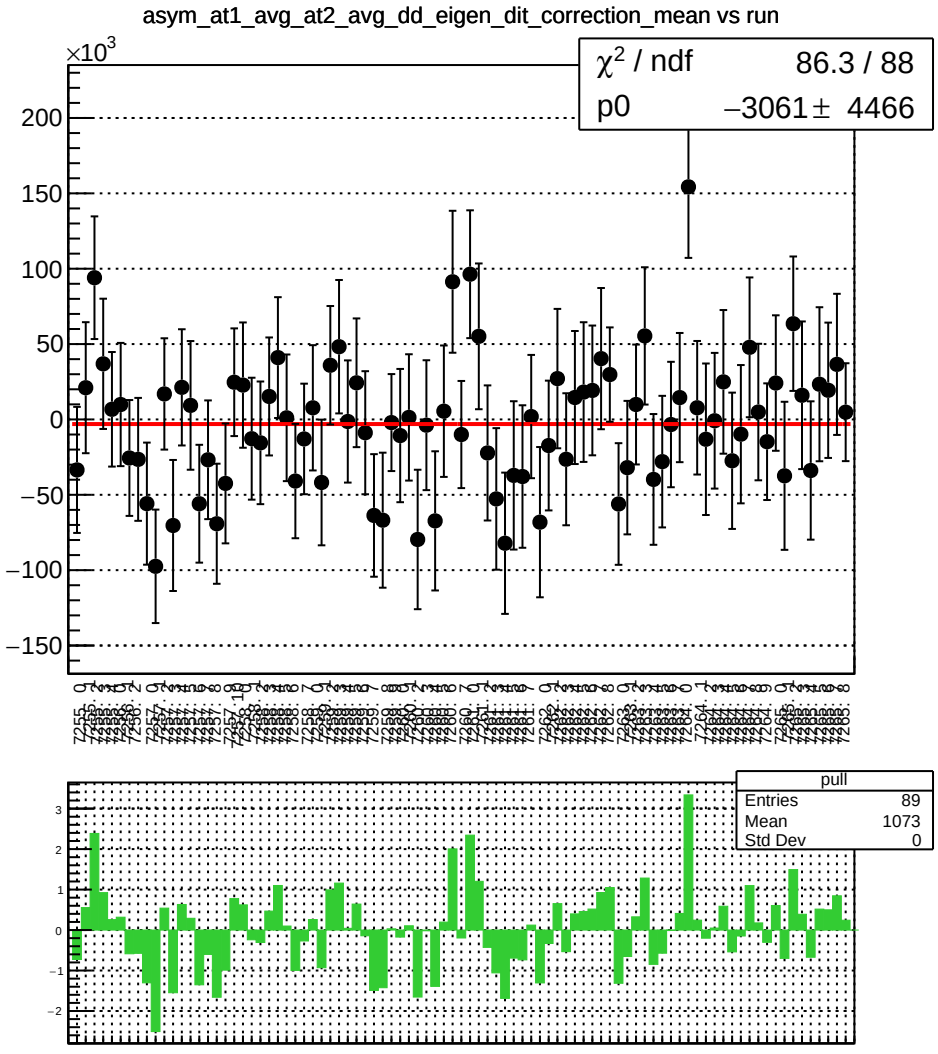

pull1D
Entries 89
Mean 0.00415
Std Dev 0.9847

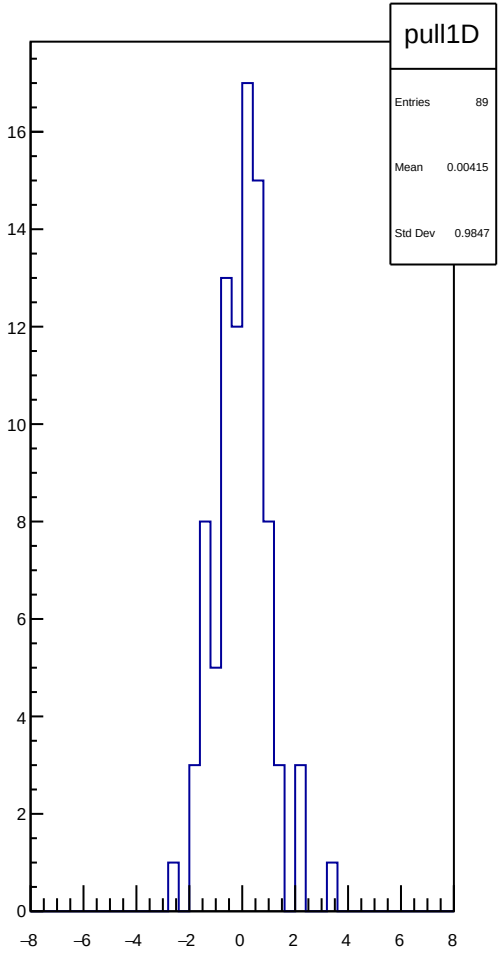

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 8869 / 88
p0 4100 ± 3.158
5000
4800
4600
4400
4200
4000
3800
3600
3400

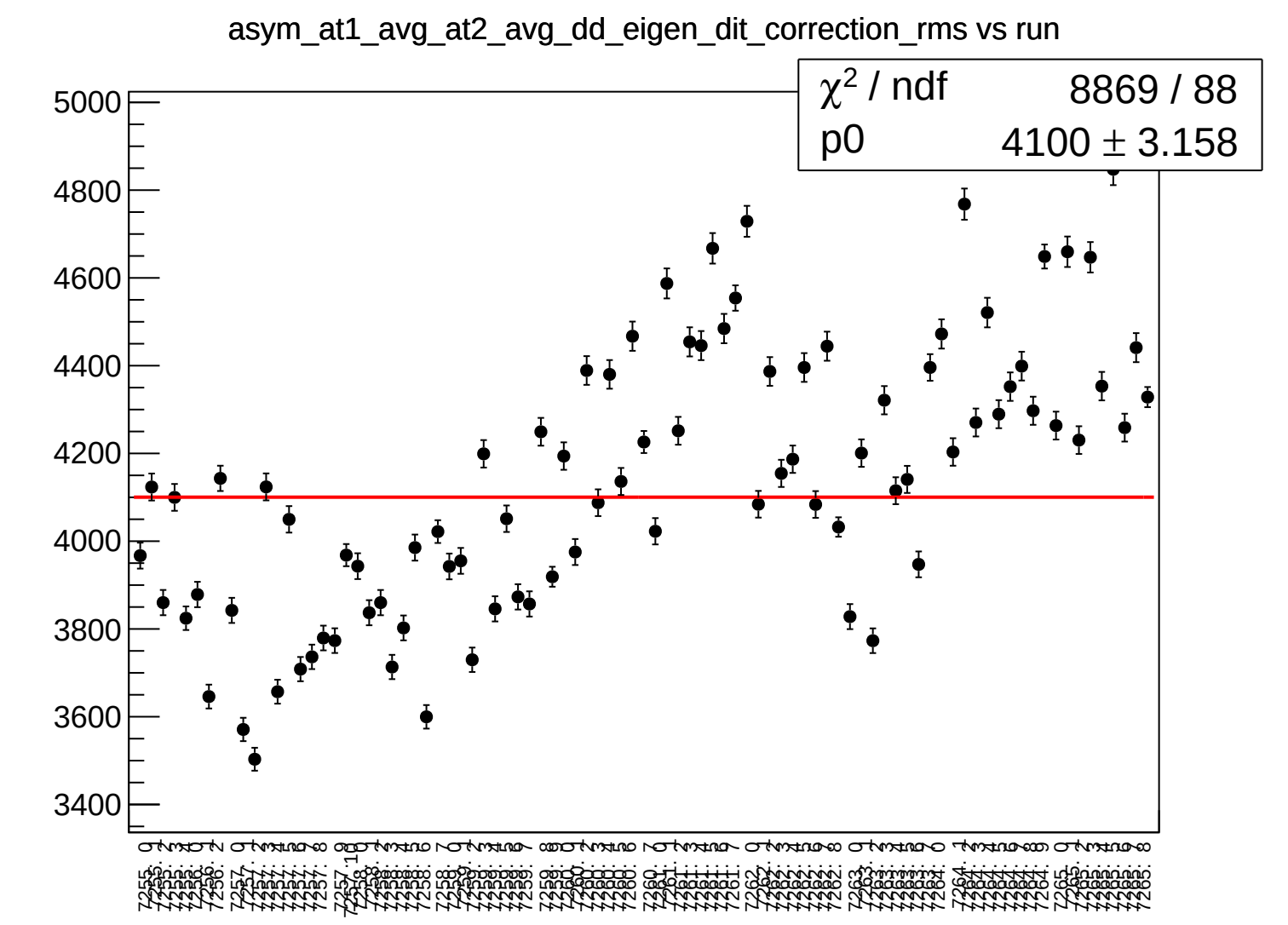

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 85.43 / 88
p0 1005 ± 1345
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 160.8
Std Dev 0
3
2
1
0
−1
−2

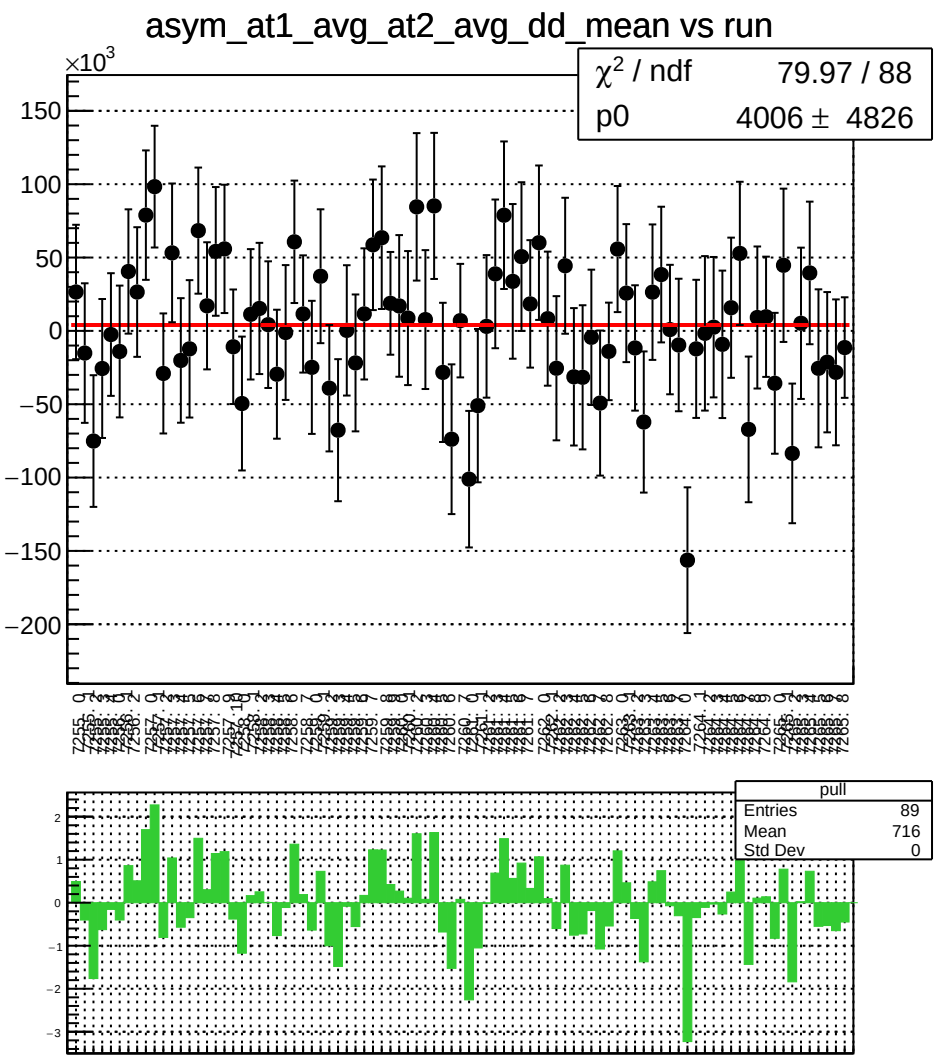

pull1D
Entries 89
Mean −0.01175
Std Dev 0.9797
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

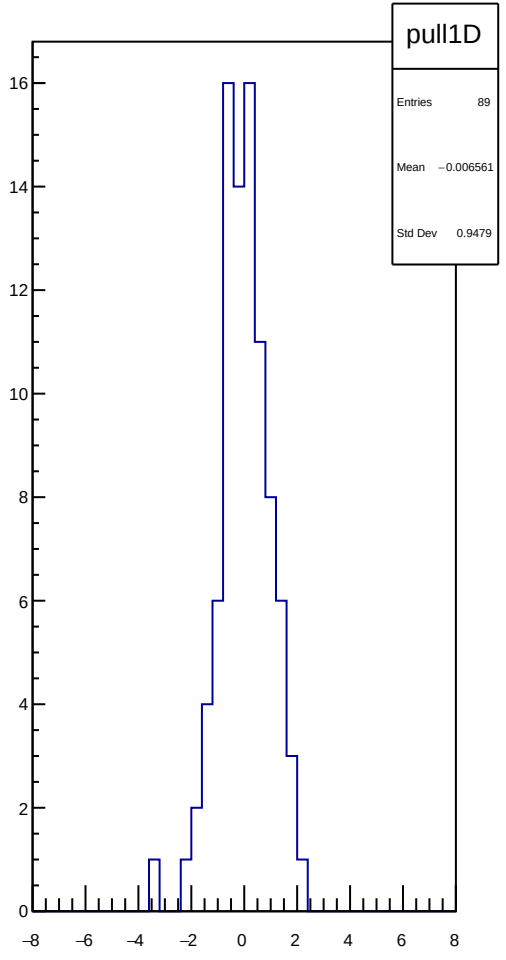

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 291.3 / 88
p0 1238 ± 0.9513
1300
1280
1260
1240
1220
1200

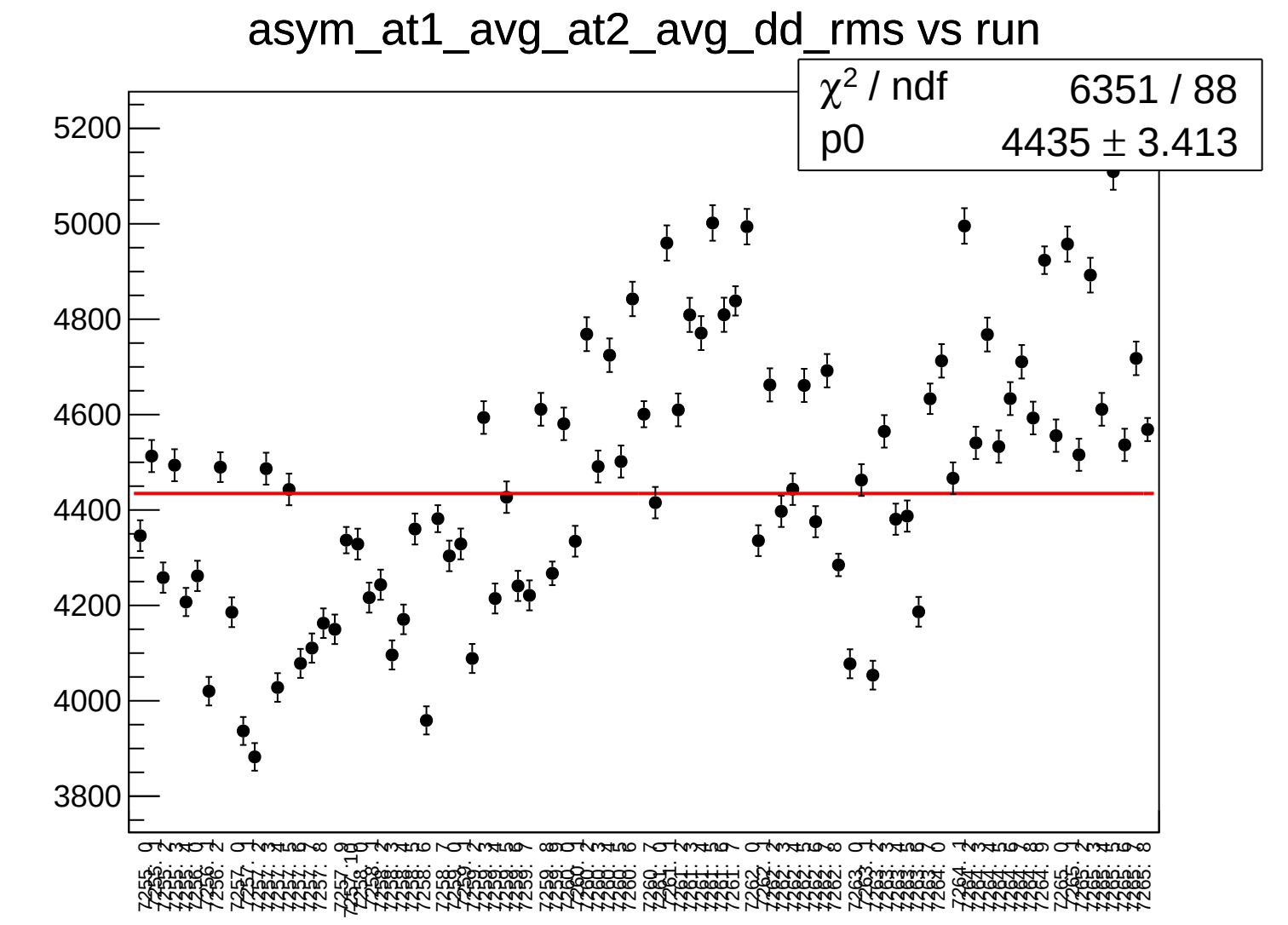

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.3 / 88
p0 −3061 ± 4466
pull
Entries 89
Mean 1073
Std Dev 0

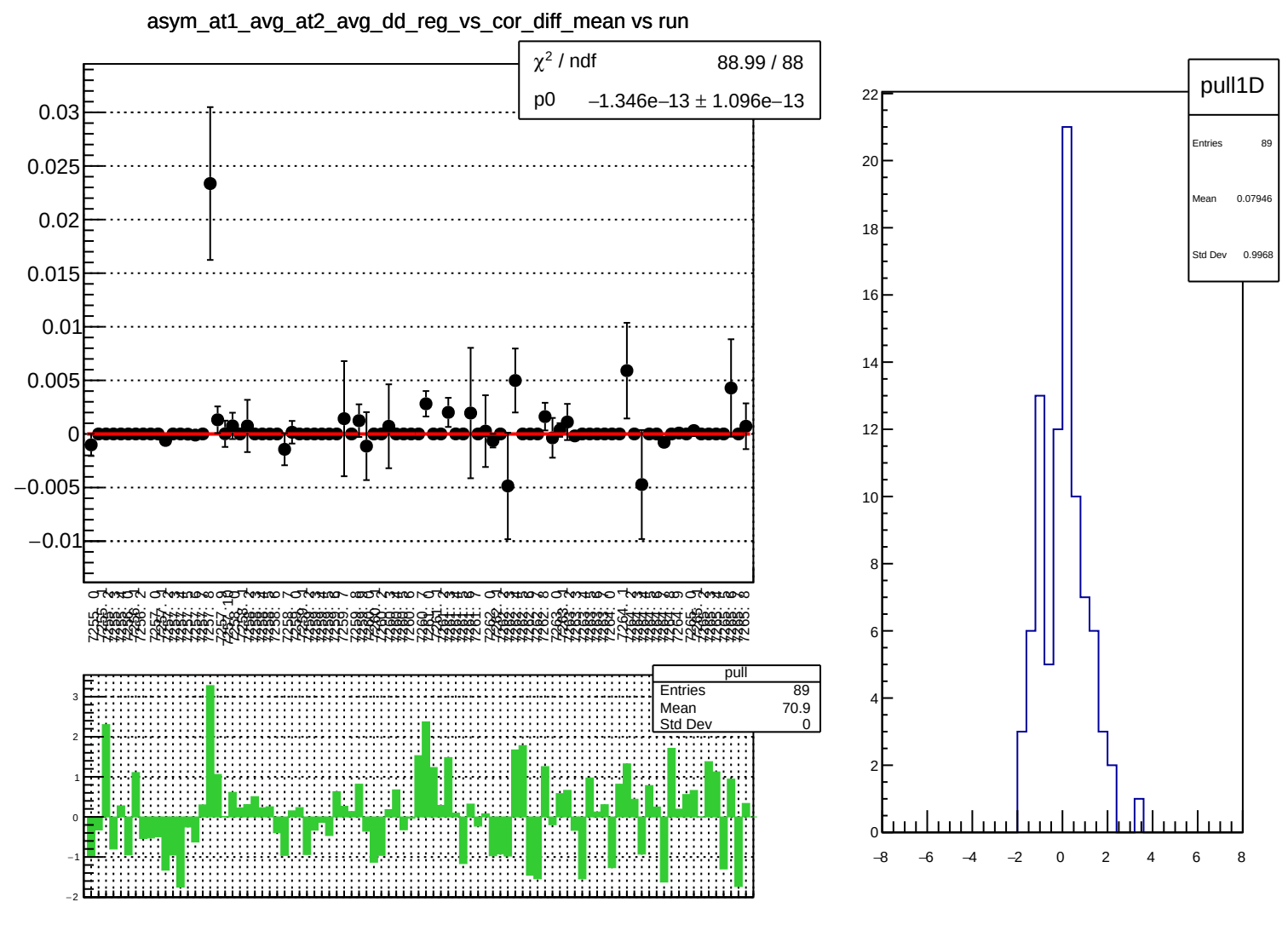

pull1D
Entries 89
Mean 0.00415
Std Dev 0.9847

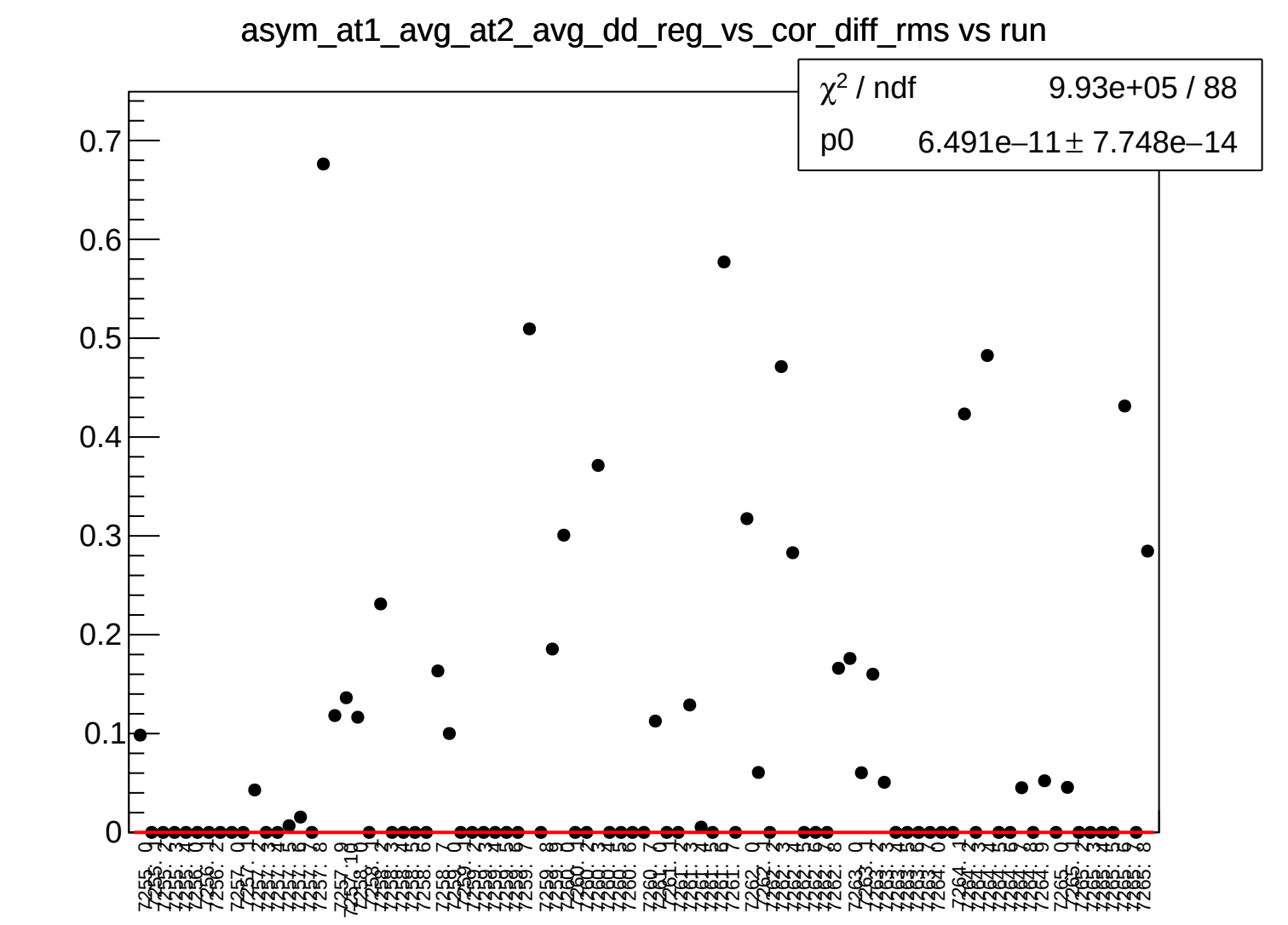

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 8869 / 88
p0 4100 ± 3.158
5000
4800
4600
4400
4200
4000
3800
3600
3400

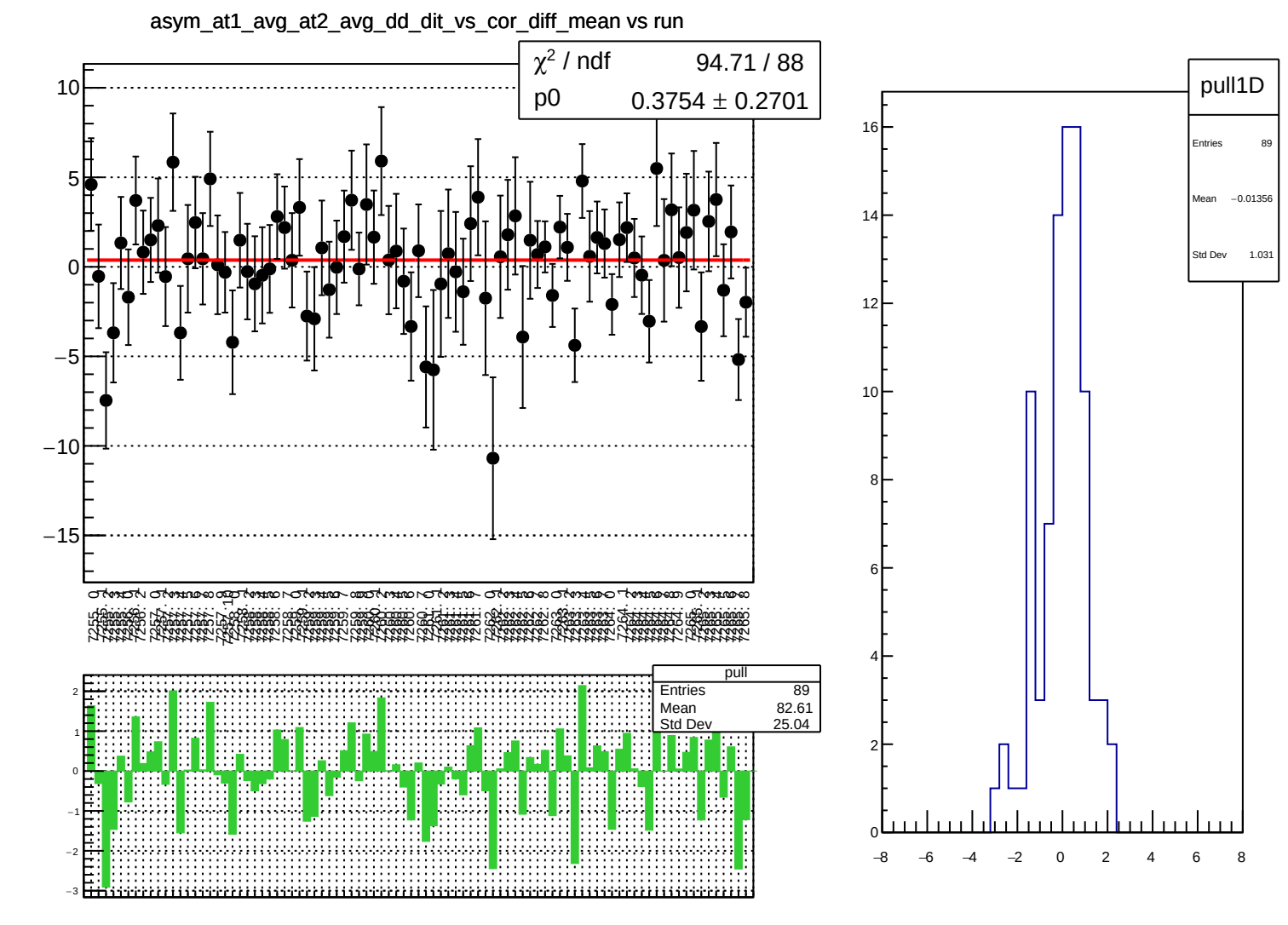

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 79.97 / 88
p0 4006 ± 4826
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 716
Std Dev 0
2
1
0
−1
−2
−3

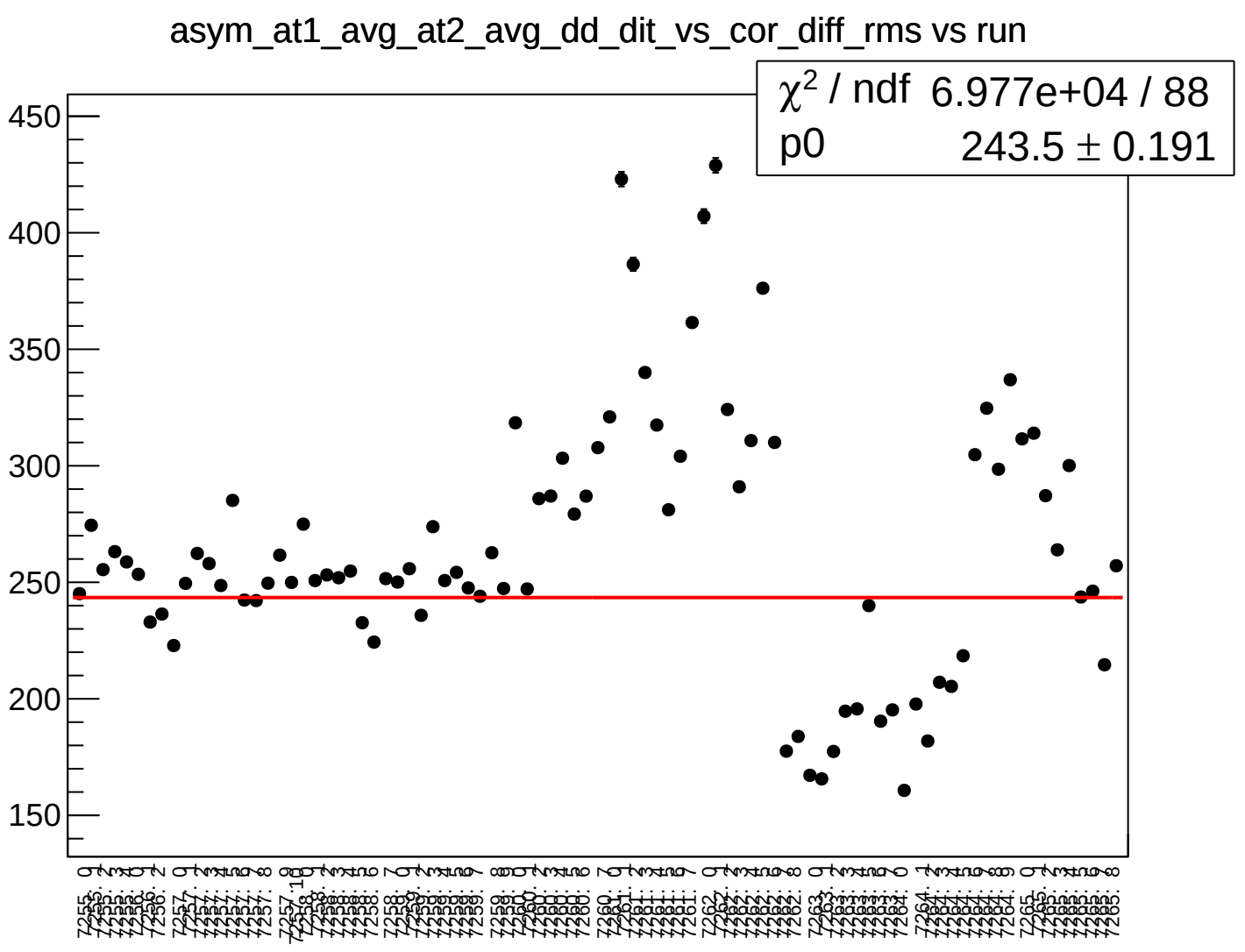

pull1D
Entries 89
Mean −0.006561
Std Dev 0.9479
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

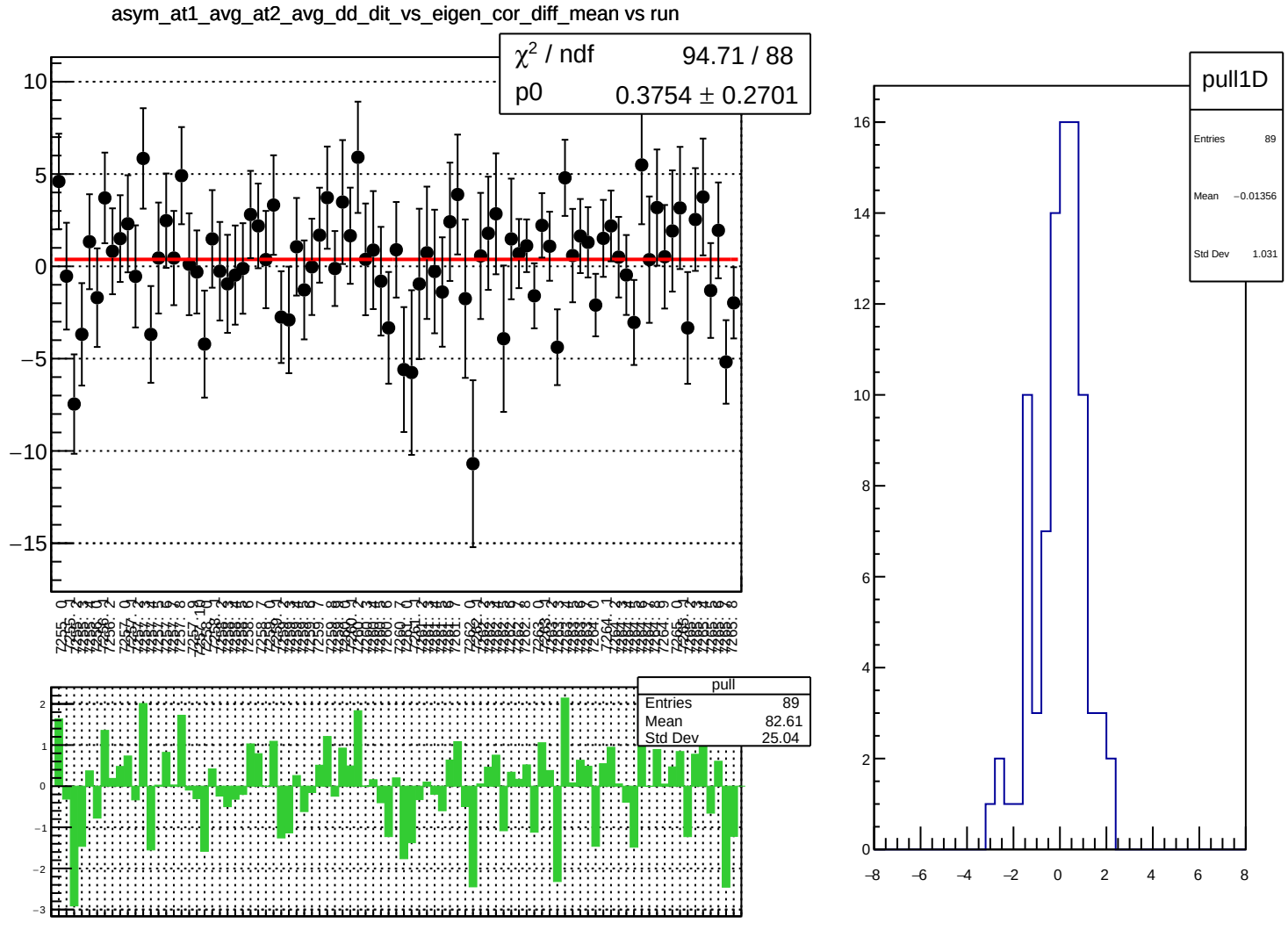

asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 6351 / 88
p0 4435 ± 3.413
5200
5000
4800
4600
4400
4200
4000
3800

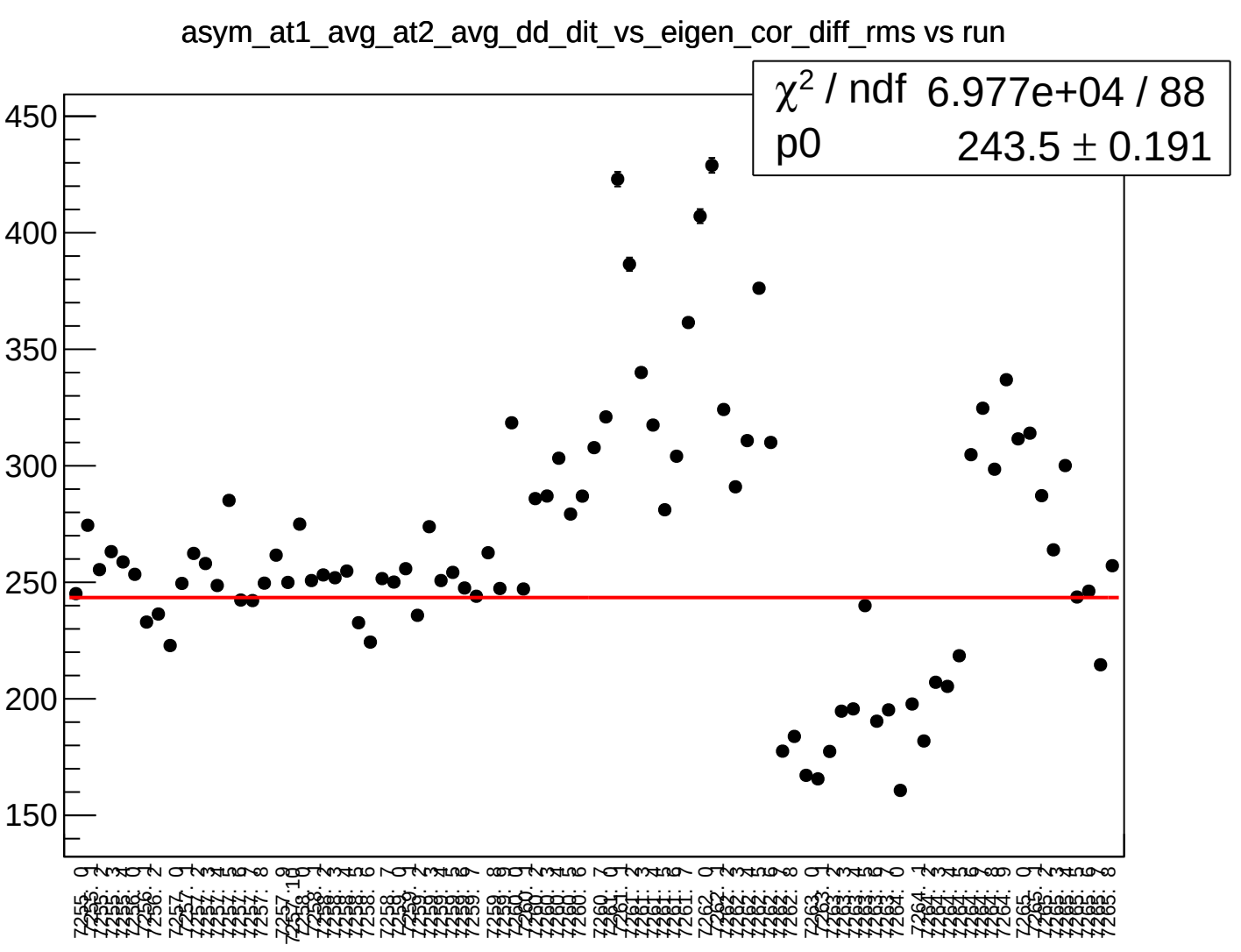

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.99 / 88
p0 −1.346e−13 ± 1.096e−13
pull
Entries 89
Mean 70.9
Std Dev 0
pull1D
Entries 89
Mean 0.07946
Std Dev 0.9968

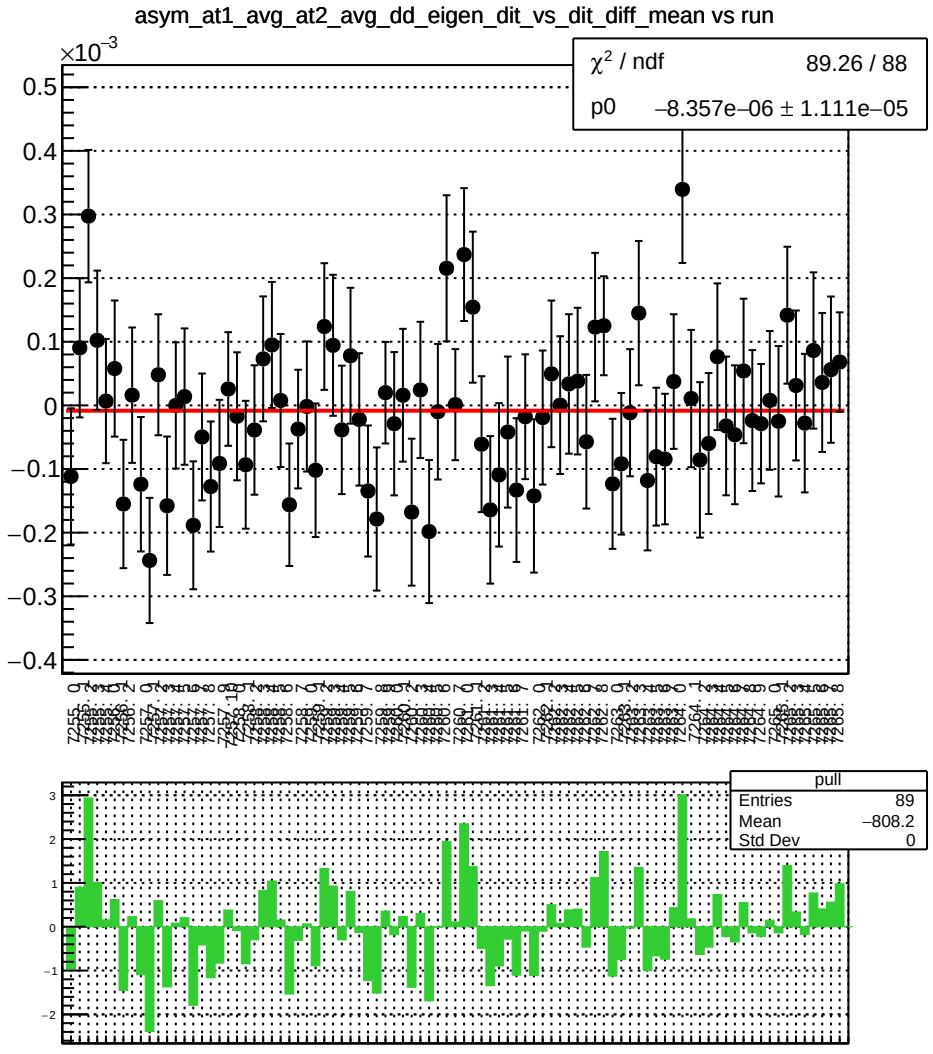

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.93e+05 / 88
p0 6.491e−11 ± 7.748e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

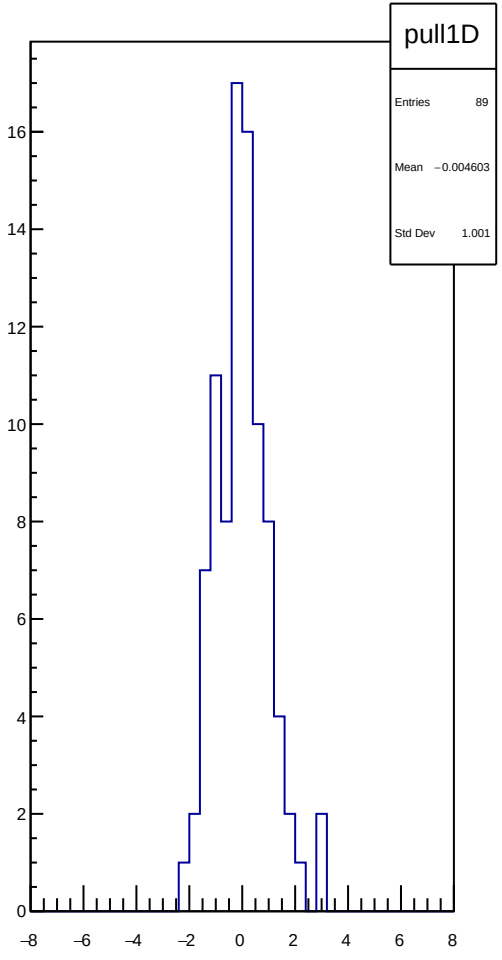

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.71 / 88
p0 0.3754 ± 0.2701
pull
Entries 89
Mean 82.61
Std Dev 25.04
pull1D
Entries 89
Mean −0.01356
Std Dev 1.031

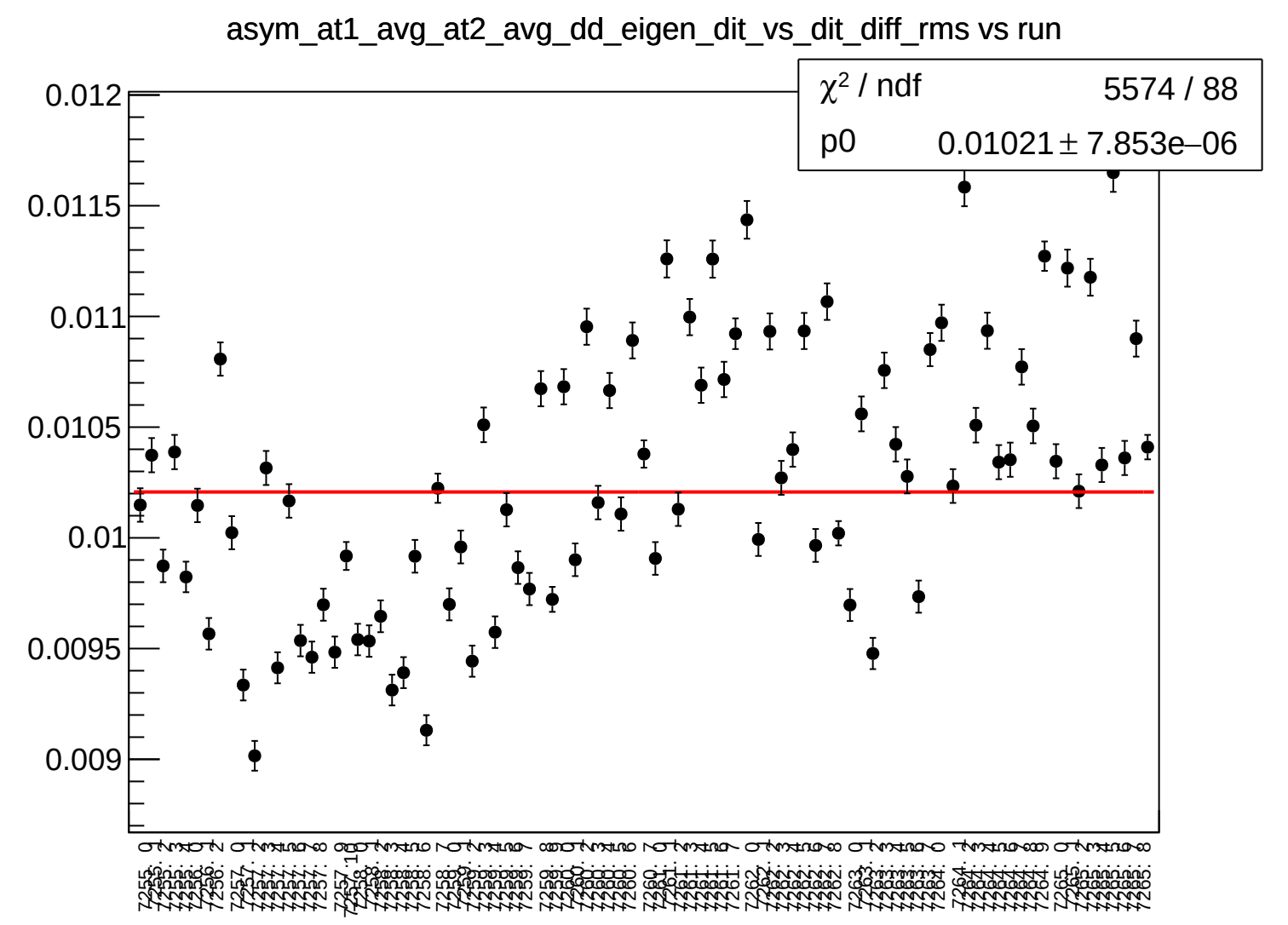

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.977e+04 / 88
p0 243.5 ± 0.191
450
400
350
300
250
200
150

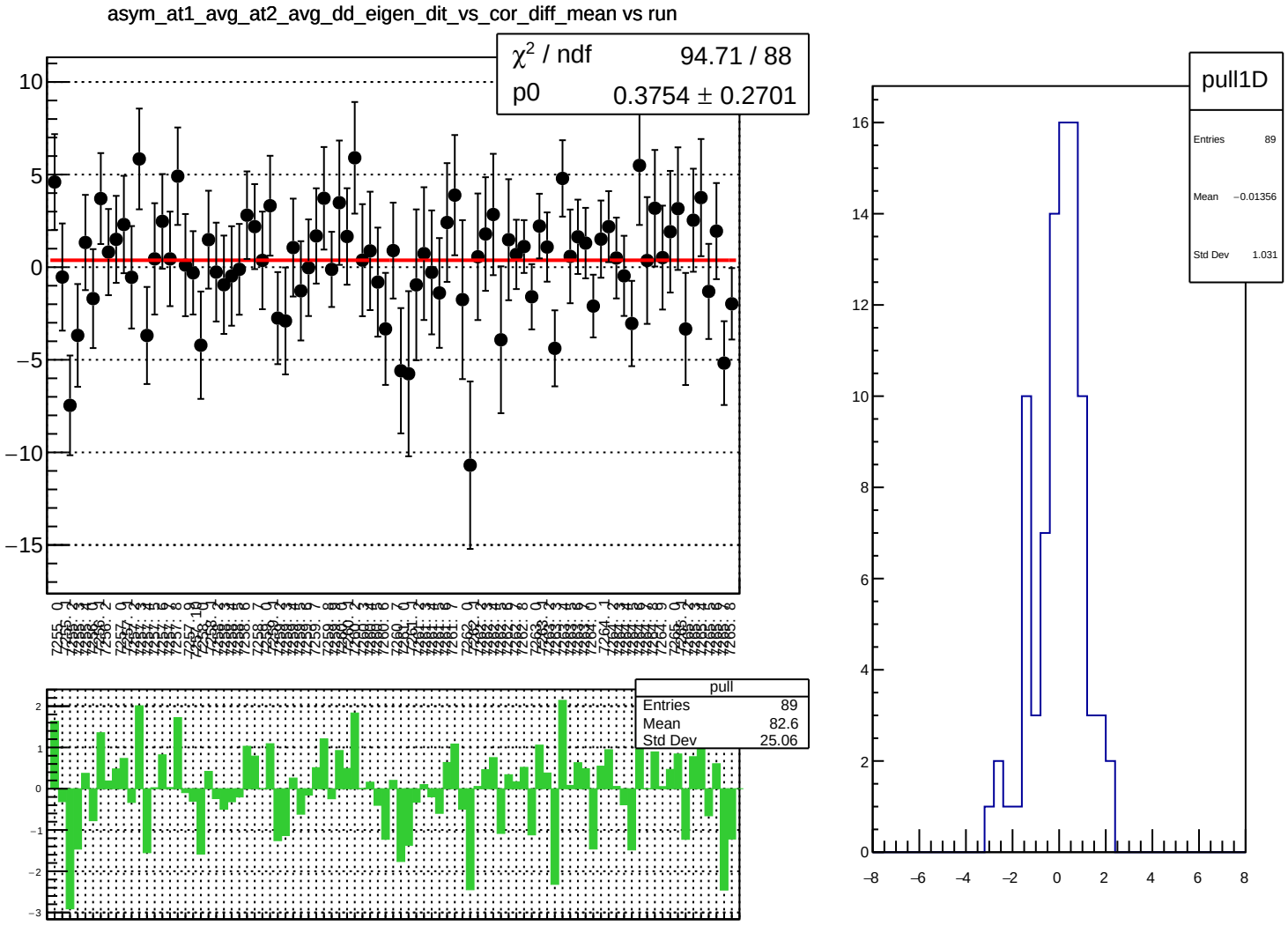

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.71 / 88
p0 0.3754 ± 0.2701
pull
Entries 89
Mean 82.61
Std Dev 25.04
pull1D
Entries 89
Mean −0.01356
Std Dev 1.031

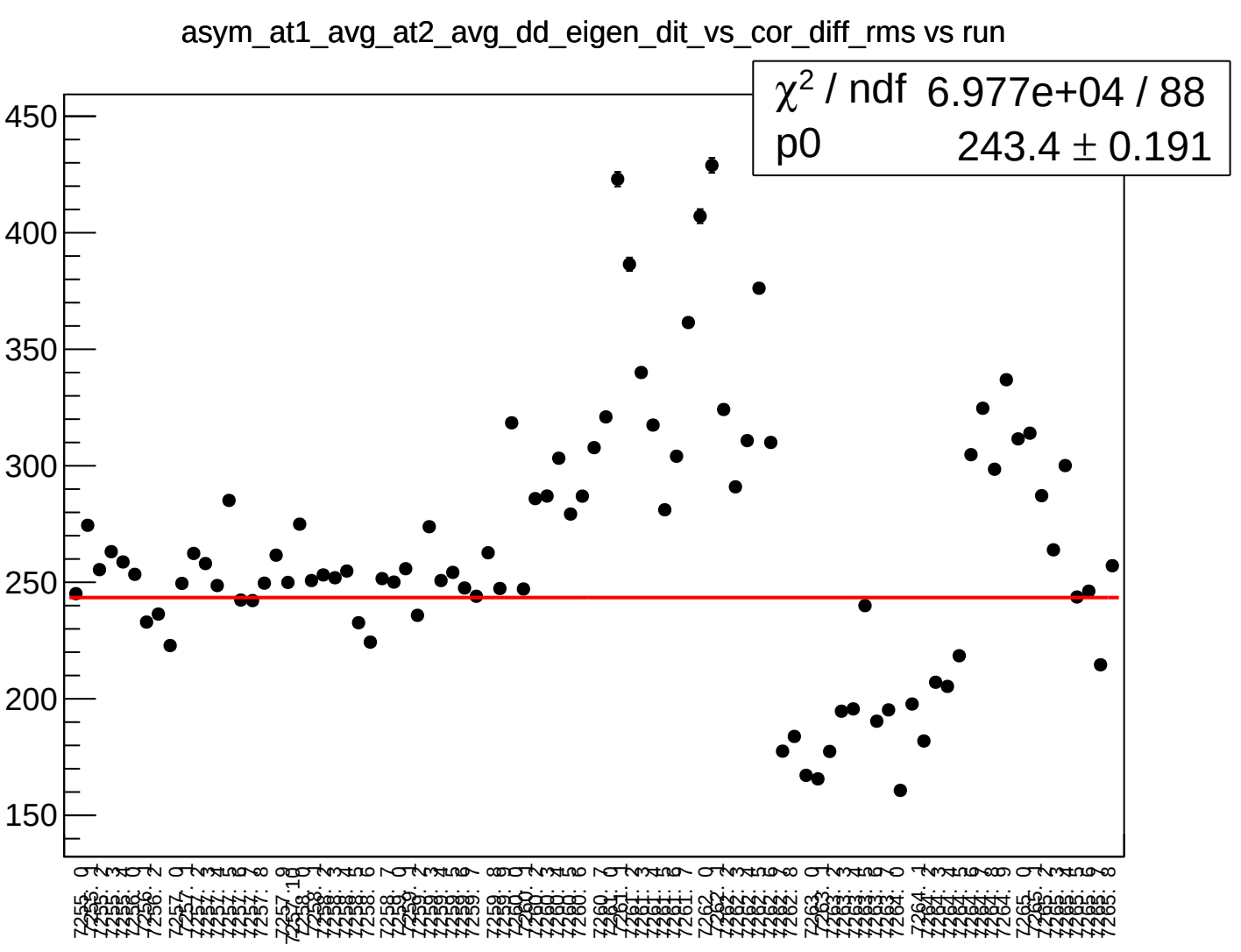

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.977e+04 / 88
p0 243.5 ± 0.191
450
400
350
300
250
200
150

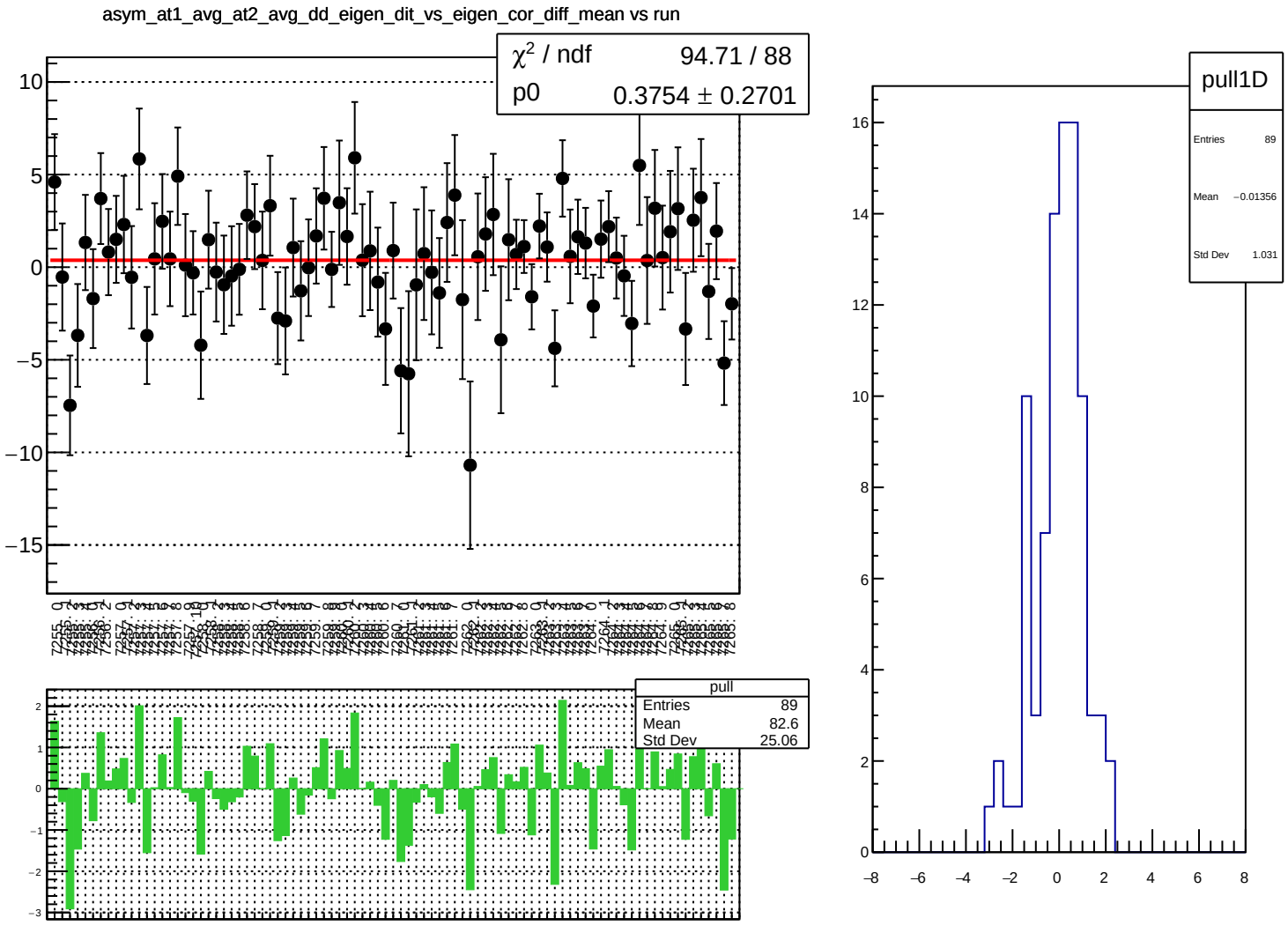

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.26 / 88
p0 −8.357e−06 ± 1.111e−05
pull
Entries 89
Mean −808.2
Std Dev 0

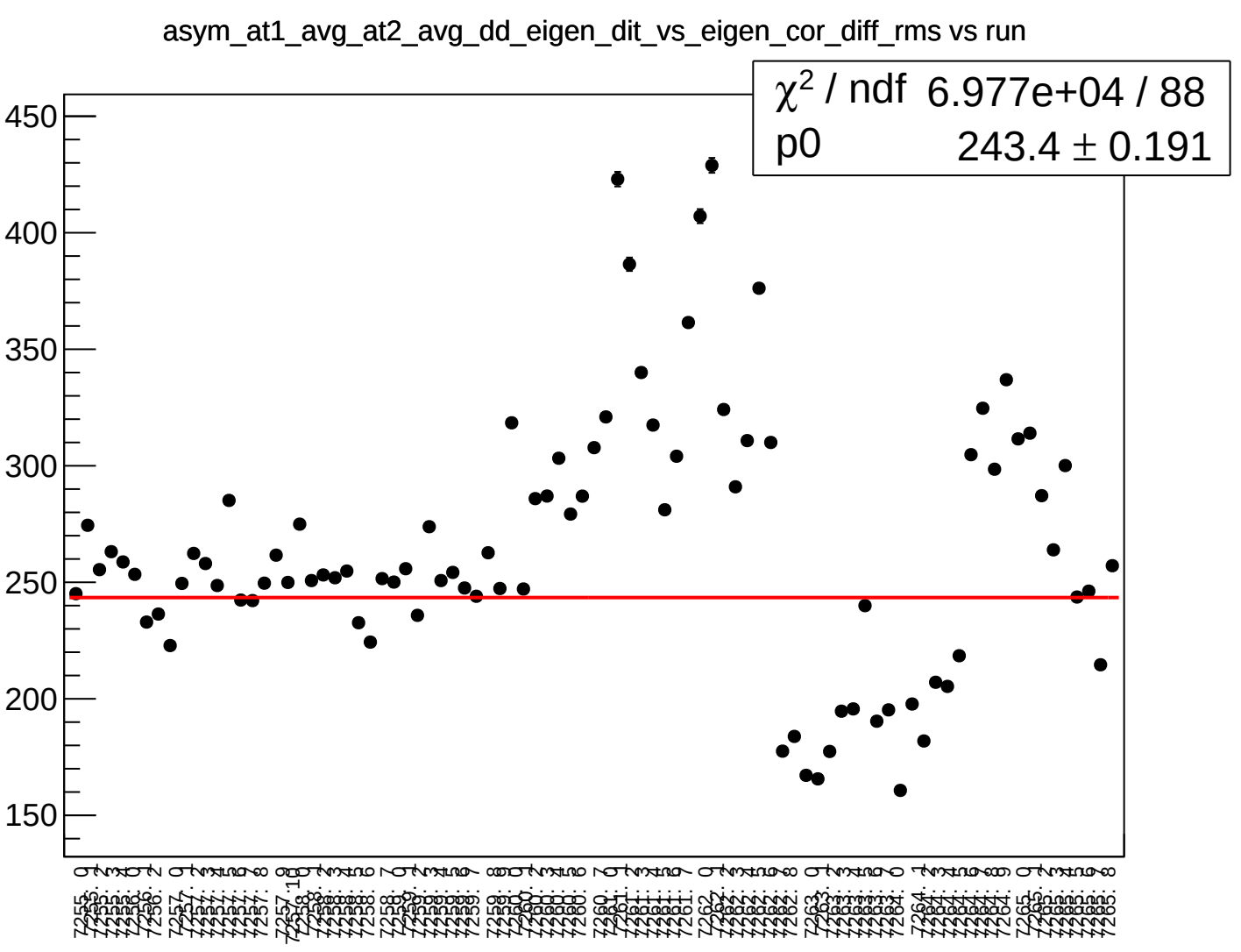

pull1D
Entries 89
Mean −0.004603
Std Dev 1.001

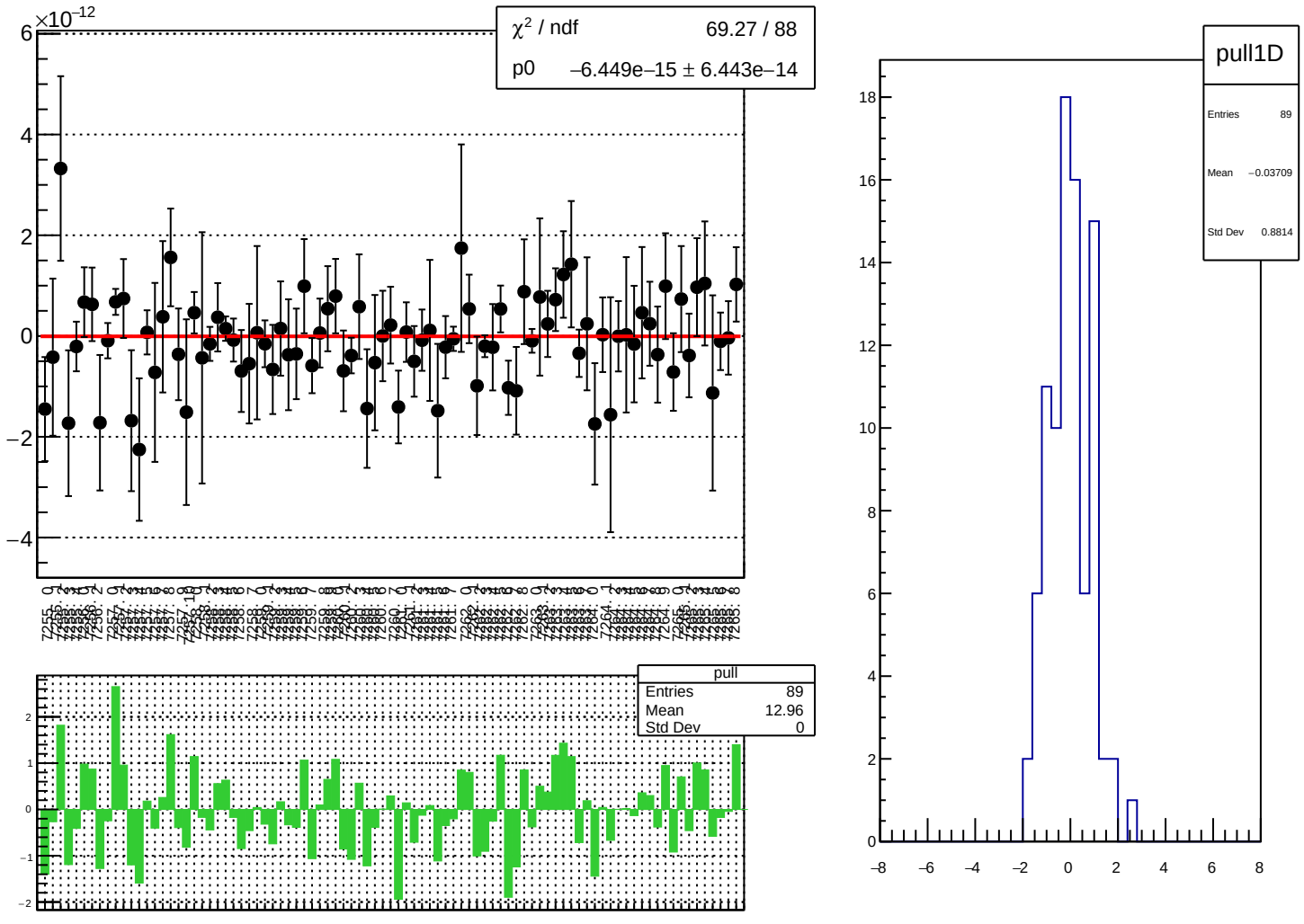

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5574 / 88
p0 0.01021 ± 7.853e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

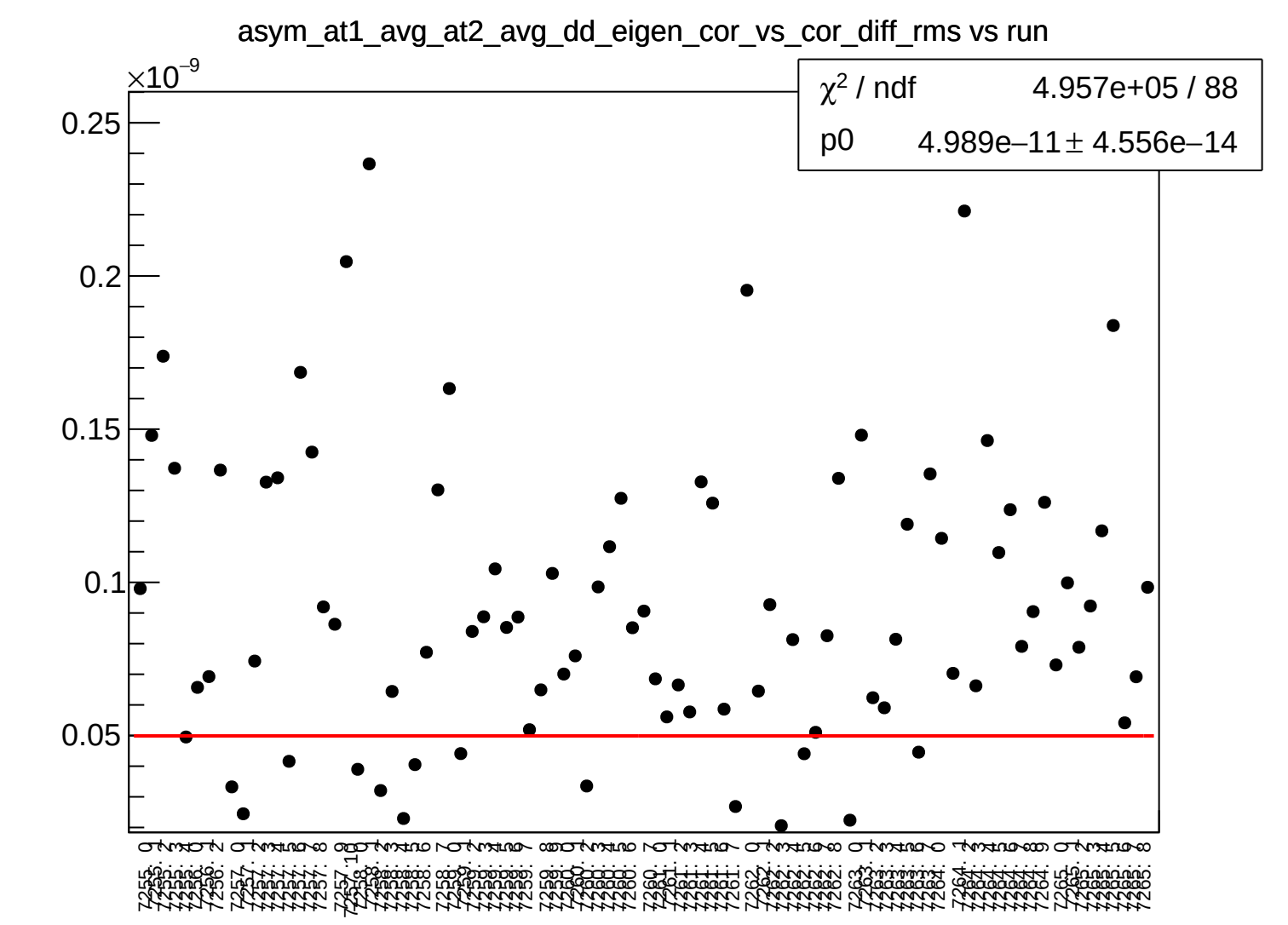

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.71 / 88
p0 0.3754 ± 0.2701
pull
Entries 89
Mean 82.6
Std Dev 25.06
pull1D
Entries 89
Mean −0.01356
Std Dev 1.031

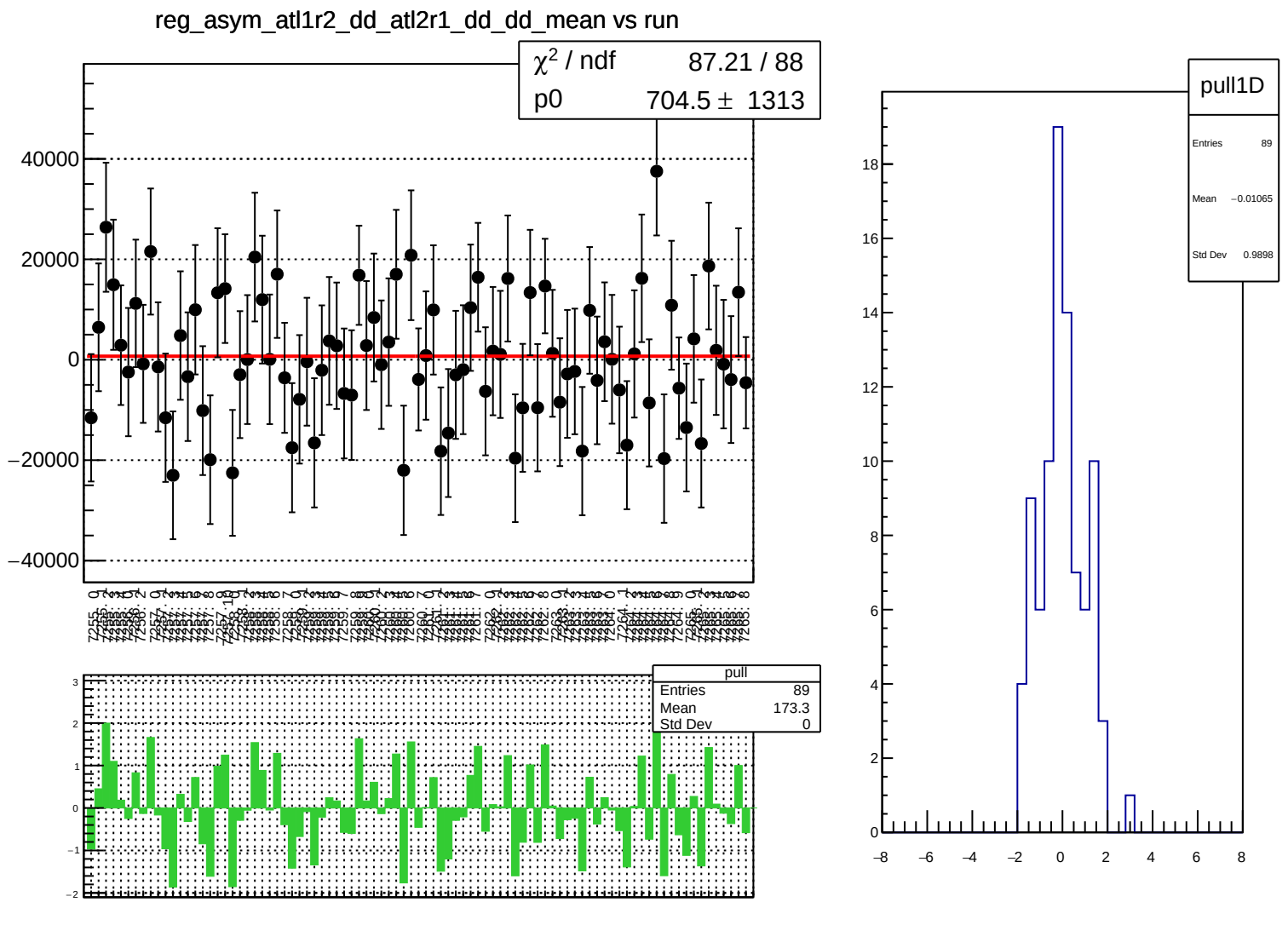

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.977e+04 / 88
p0 243.4 ± 0.191
450
400
350
300
250
200
150

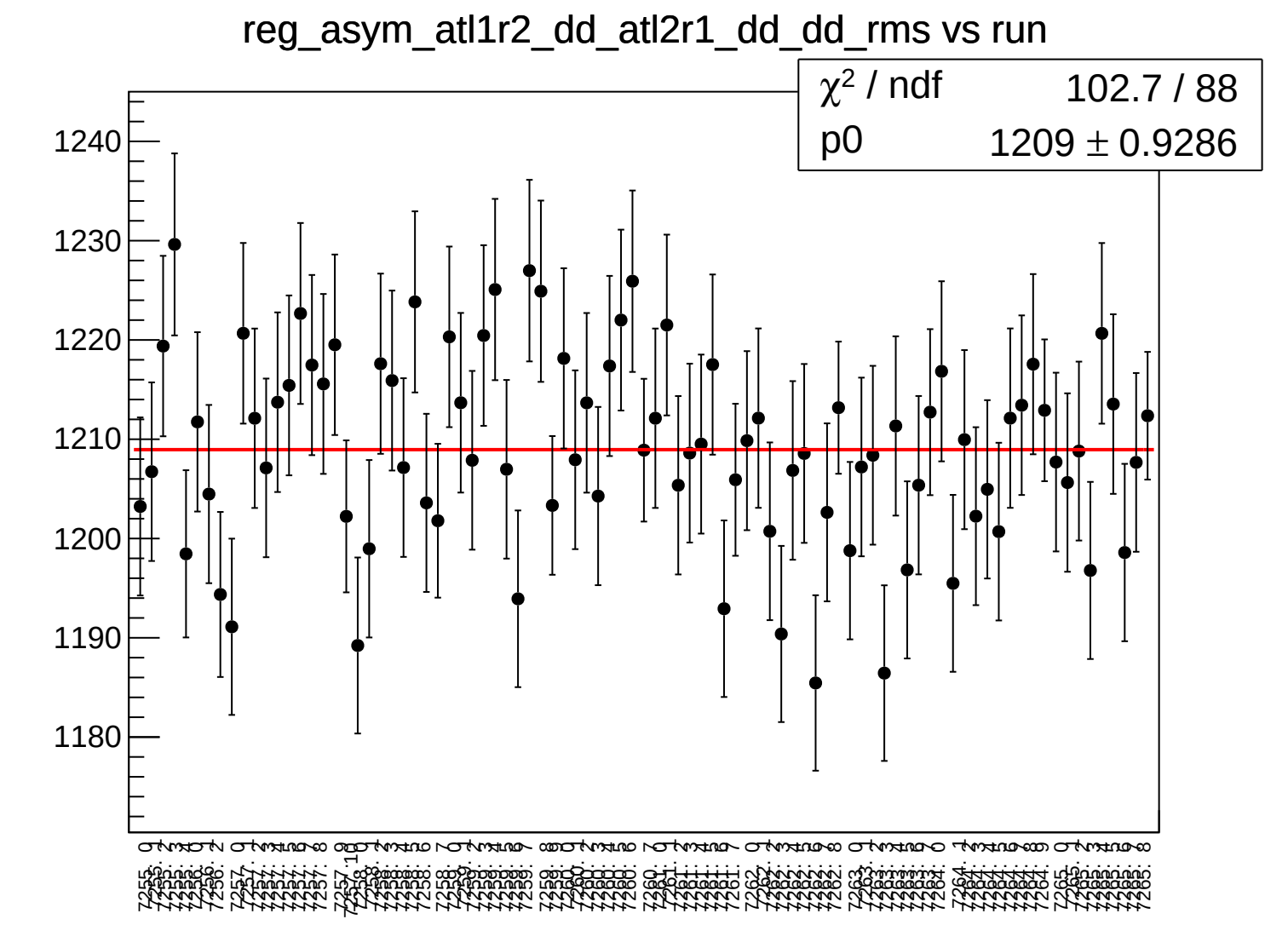

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.71 / 88
p0 0.3754 ± 0.2701
pull
Entries 89
Mean 82.6
Std Dev 25.06
pull1D
Entries 89
Mean −0.01356
Std Dev 1.031

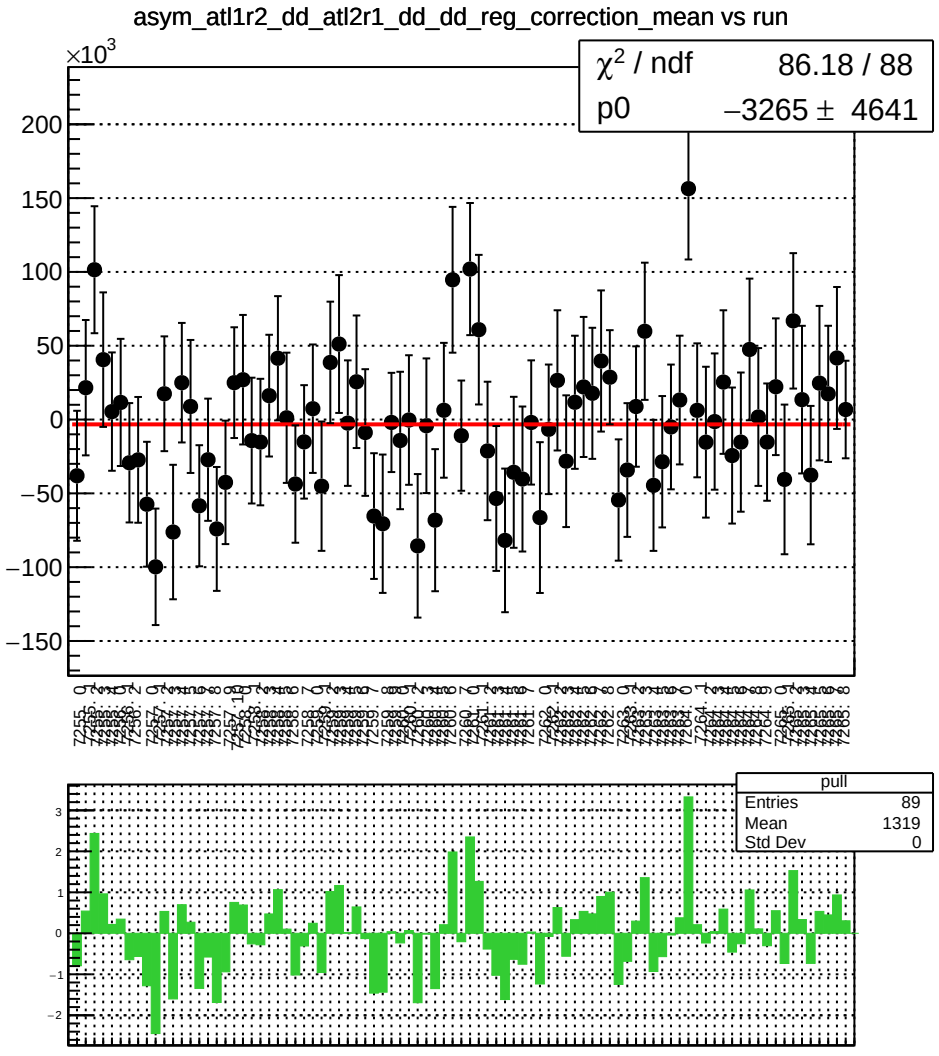

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.977e+04 / 88
p0 243.4 ± 0.191
450
400
350
300
250
200
150

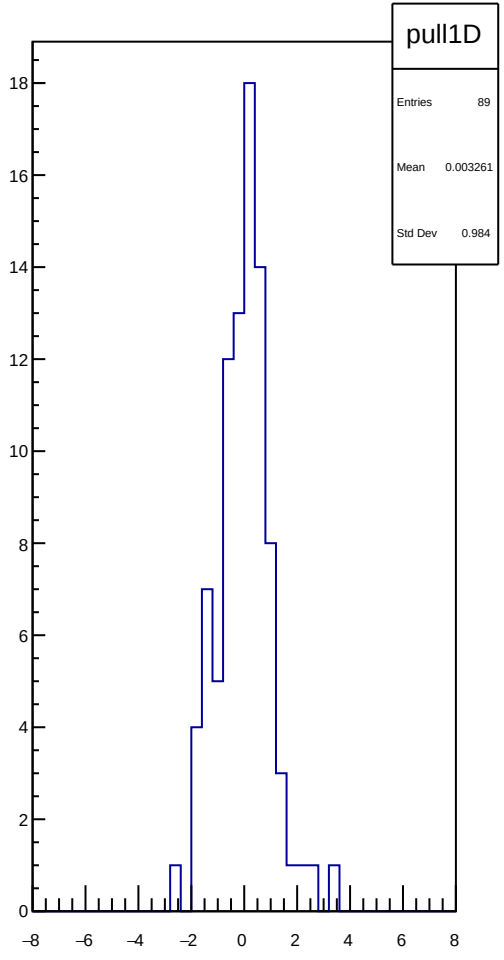

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.27 / 88
p0 −6.449e−15 ± 6.443e−14
pull
Entries 89
Mean 12.96
Std Dev 0
pull1D
Entries 89
Mean −0.03709
Std Dev 0.8814

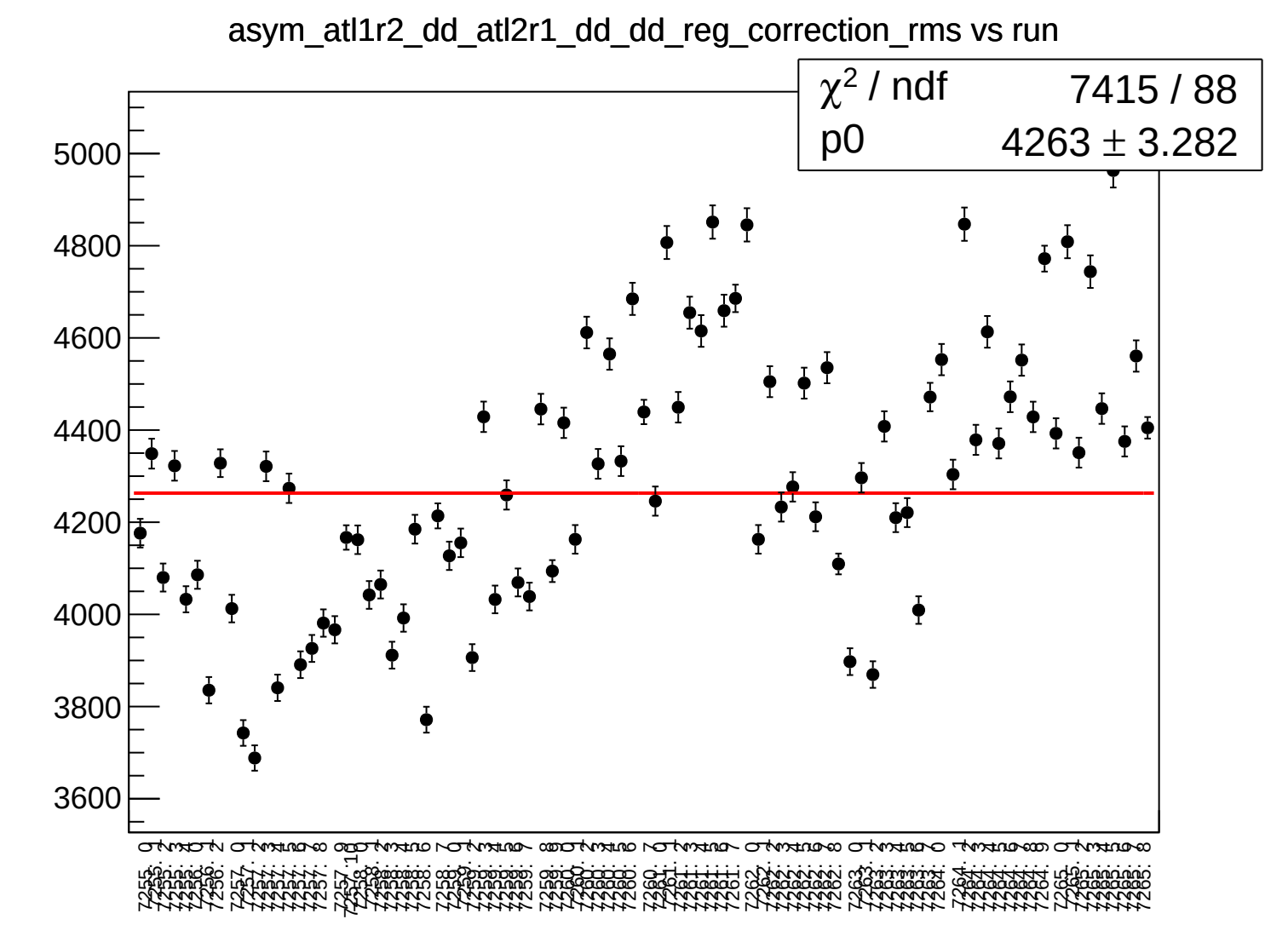

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.957e+05 / 88
p0 4.989e−11 ± 4.556e−14
0.25
0.2
0.15
0.1
0.05

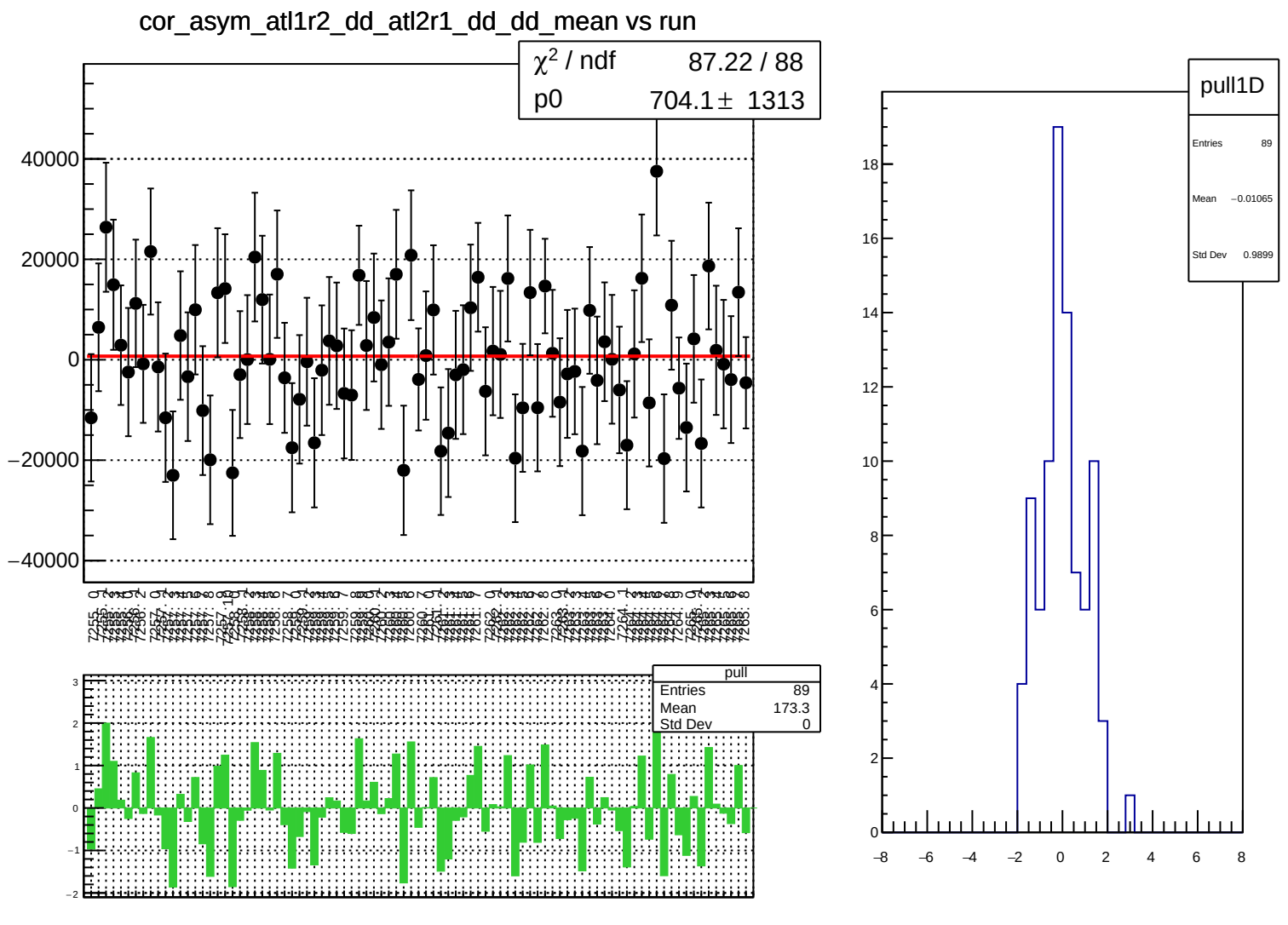

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 87.21 / 88
p0 704.5 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 173.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01065
Std Dev 0.9898
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

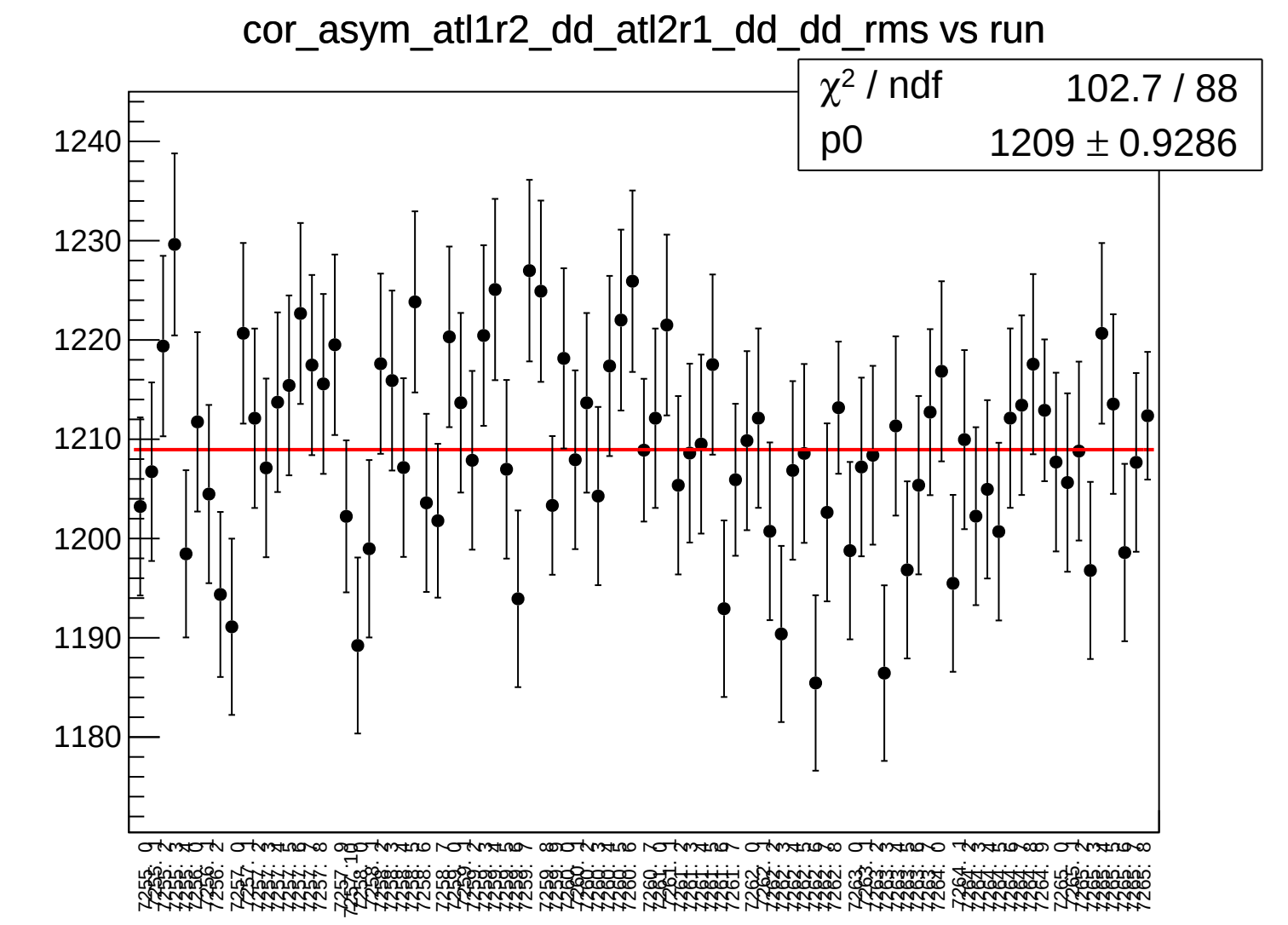

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 102.7 / 88
p0 1209 ± 0.9286
1240
1230
1220
1210
1200
1190
1180

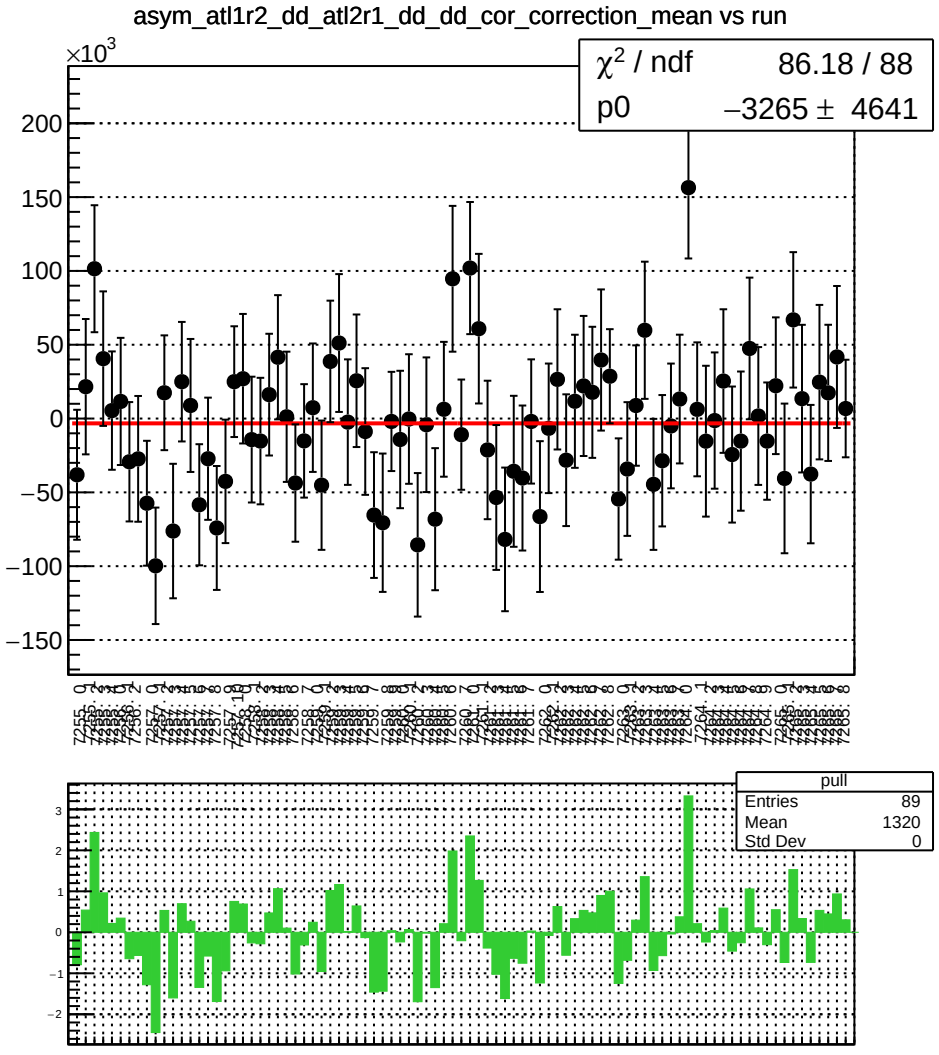

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.18 / 88
p0 −3265 ± 4641
pull
Entries 89
Mean 1319
Std Dev 0

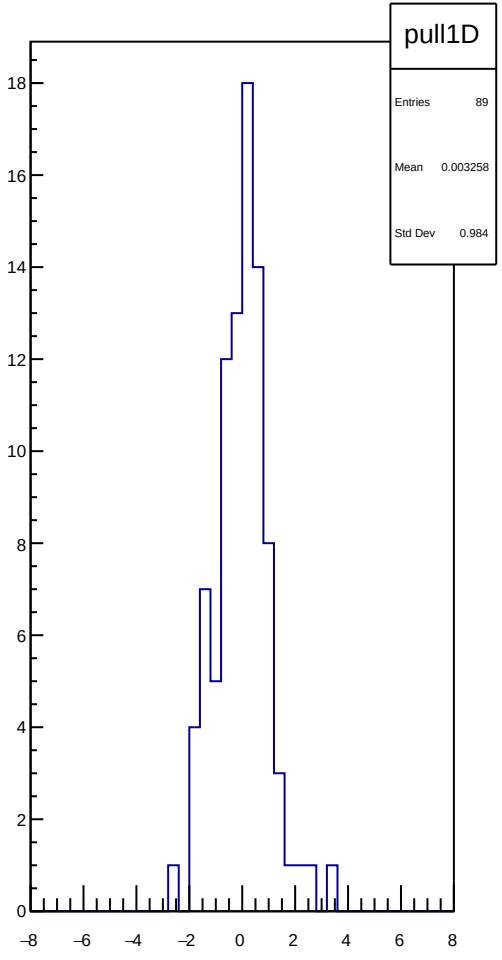

pull1D
Entries 89
Mean 0.003261
Std Dev 0.984

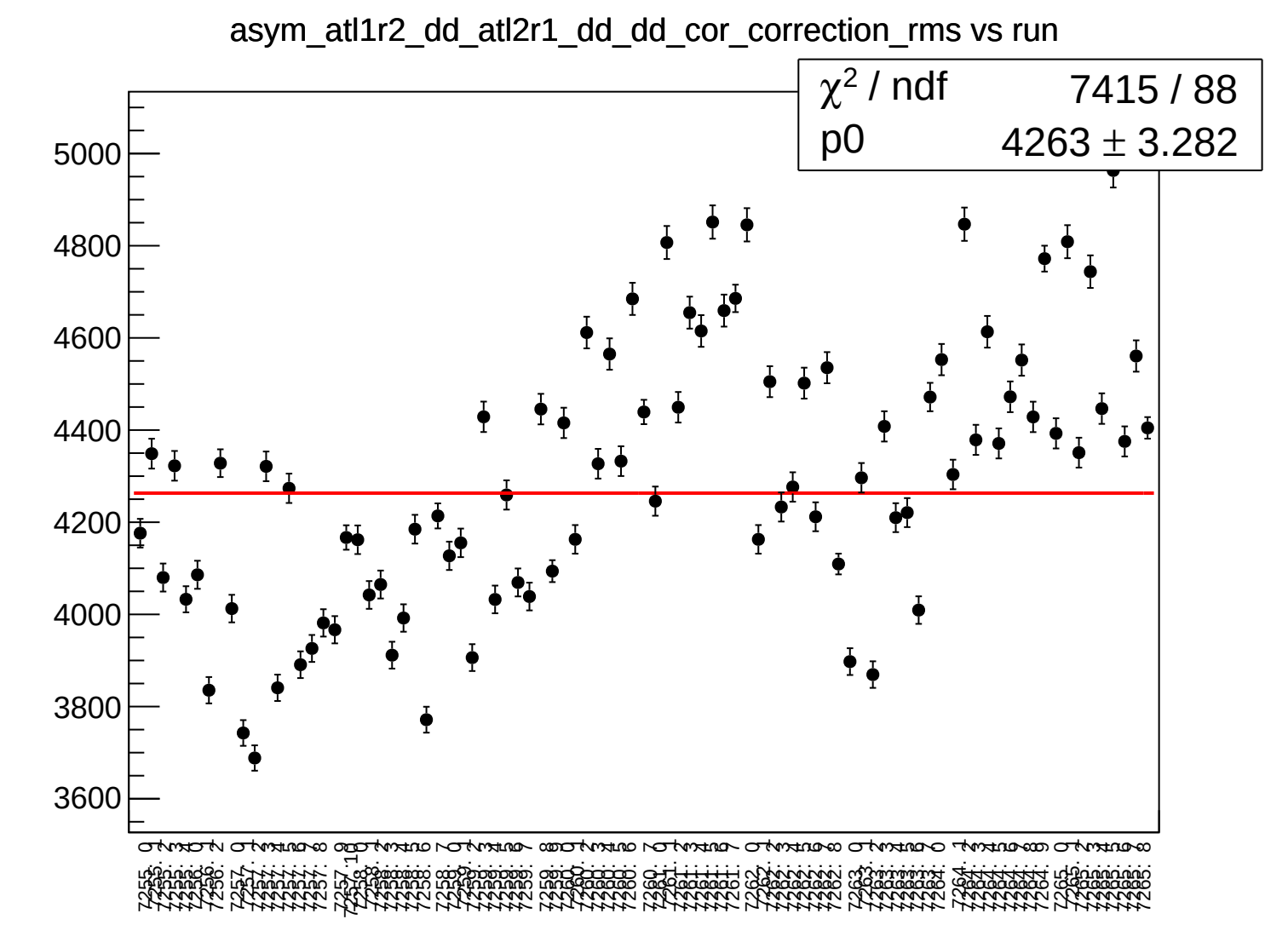

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 7415 / 88
p0 4263 ± 3.282
5000
4800
4600
4400
4200
4000
3800
3600

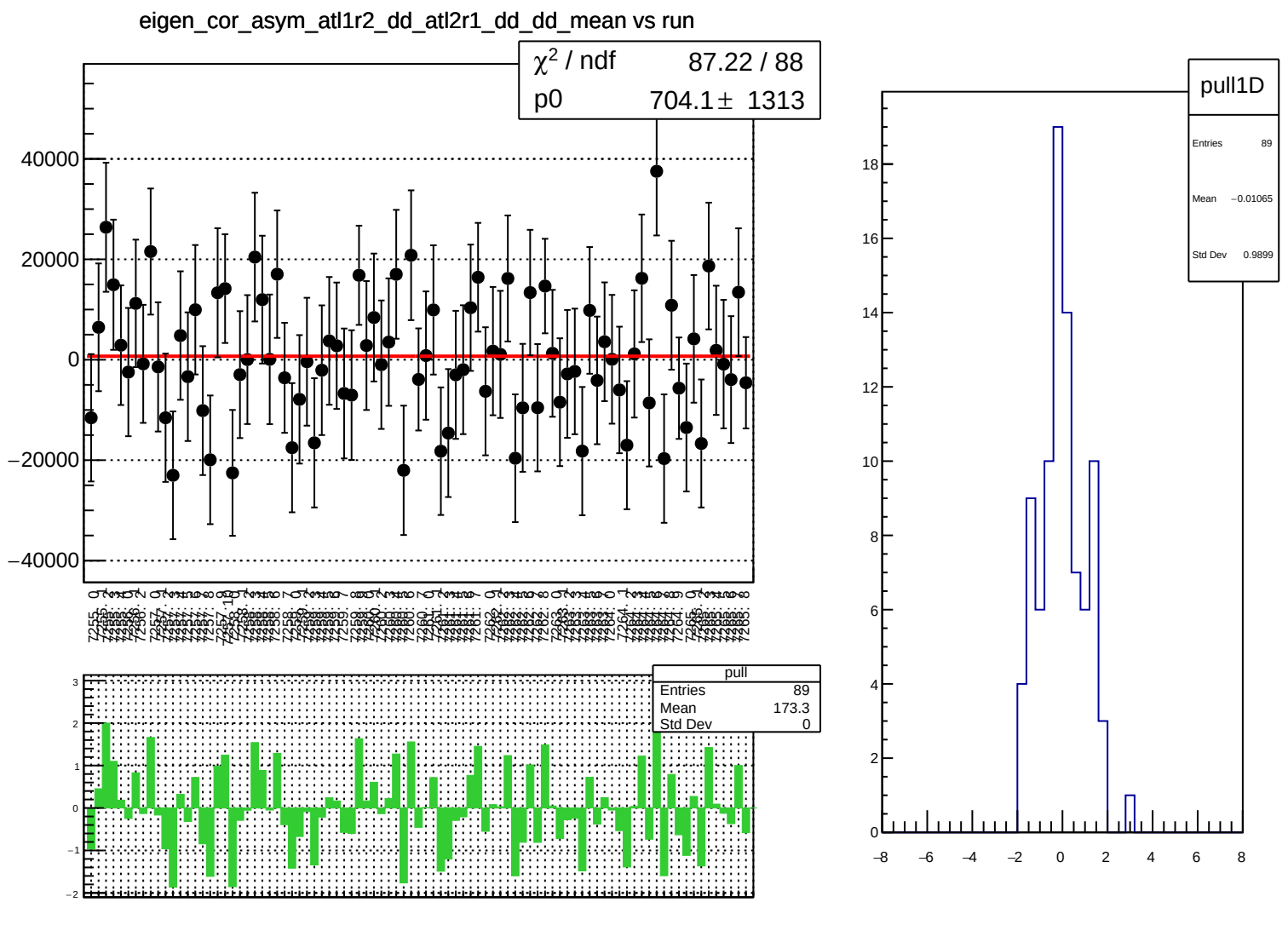

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 87.22 / 88
p0 704.1 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 173.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01065
Std Dev 0.9899
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

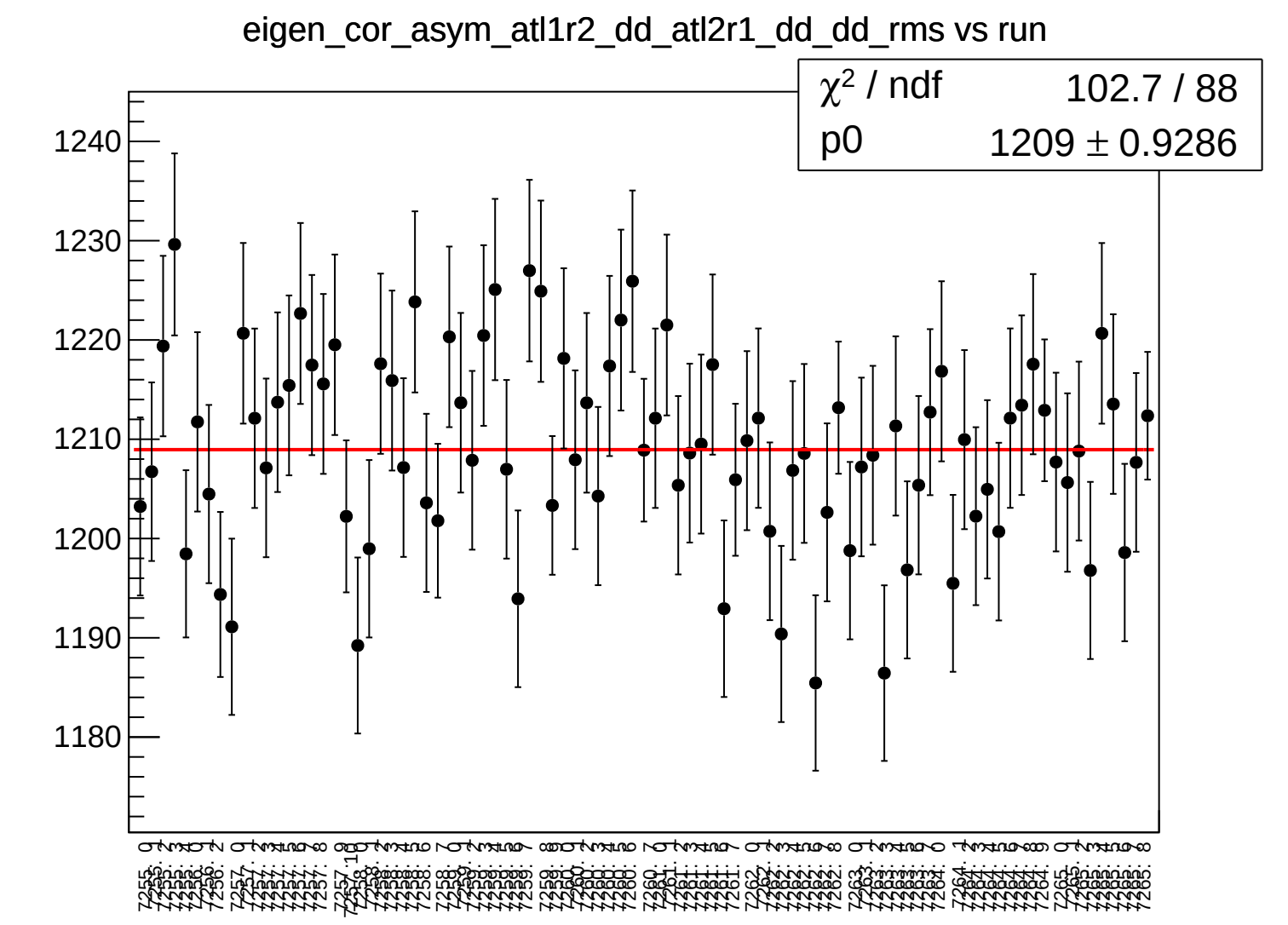

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 102.7 / 88
p0 1209 ± 0.9286
1240
1230
1220
1210
1200
1190
1180

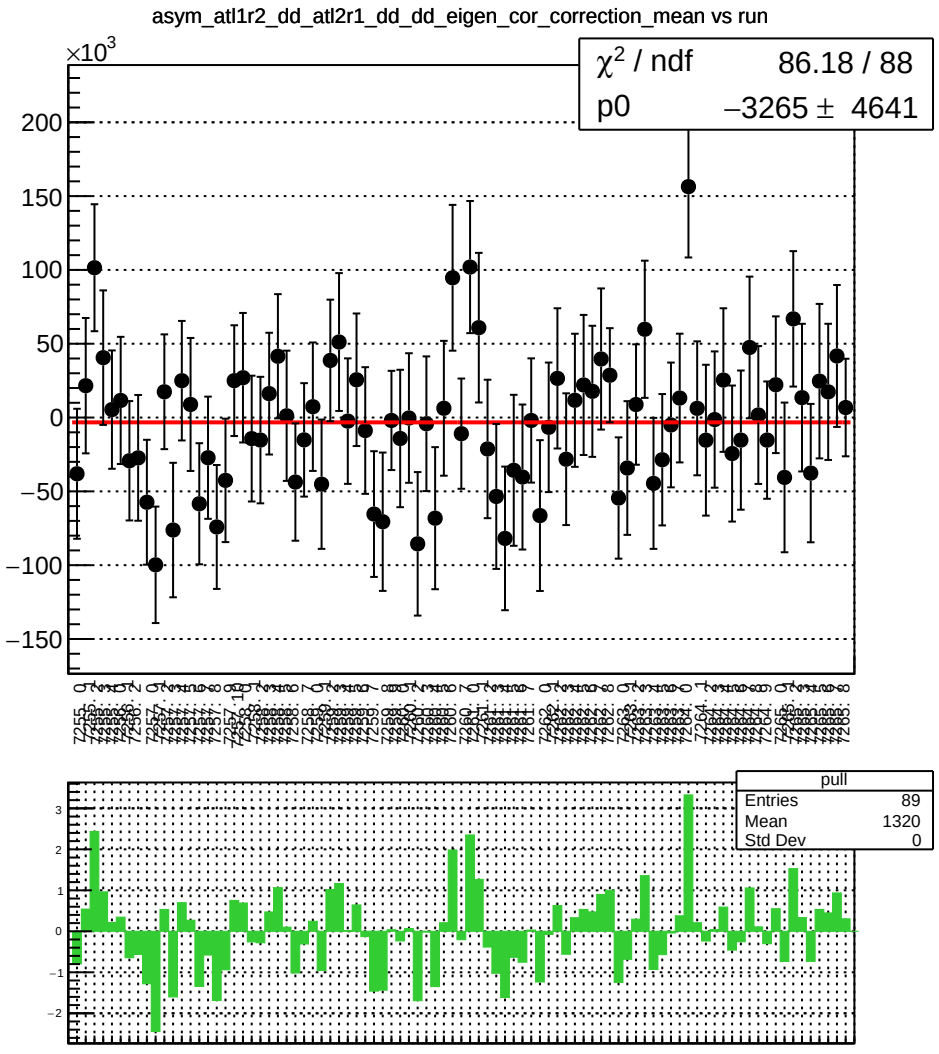

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.18 / 88
p0 −3265 ± 4641
pull
Entries 89
Mean 1320
Std Dev 0

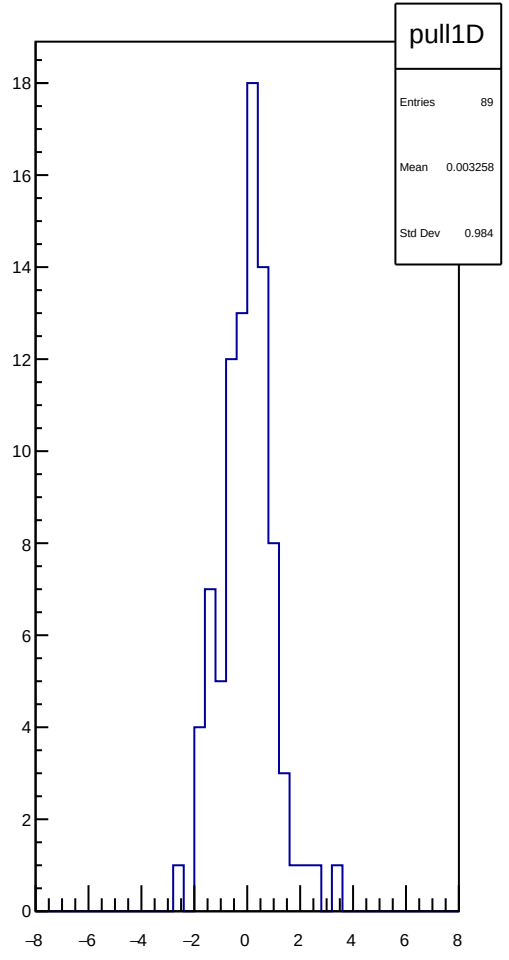

pull1D
Entries 89
Mean 0.003258
Std Dev 0.984

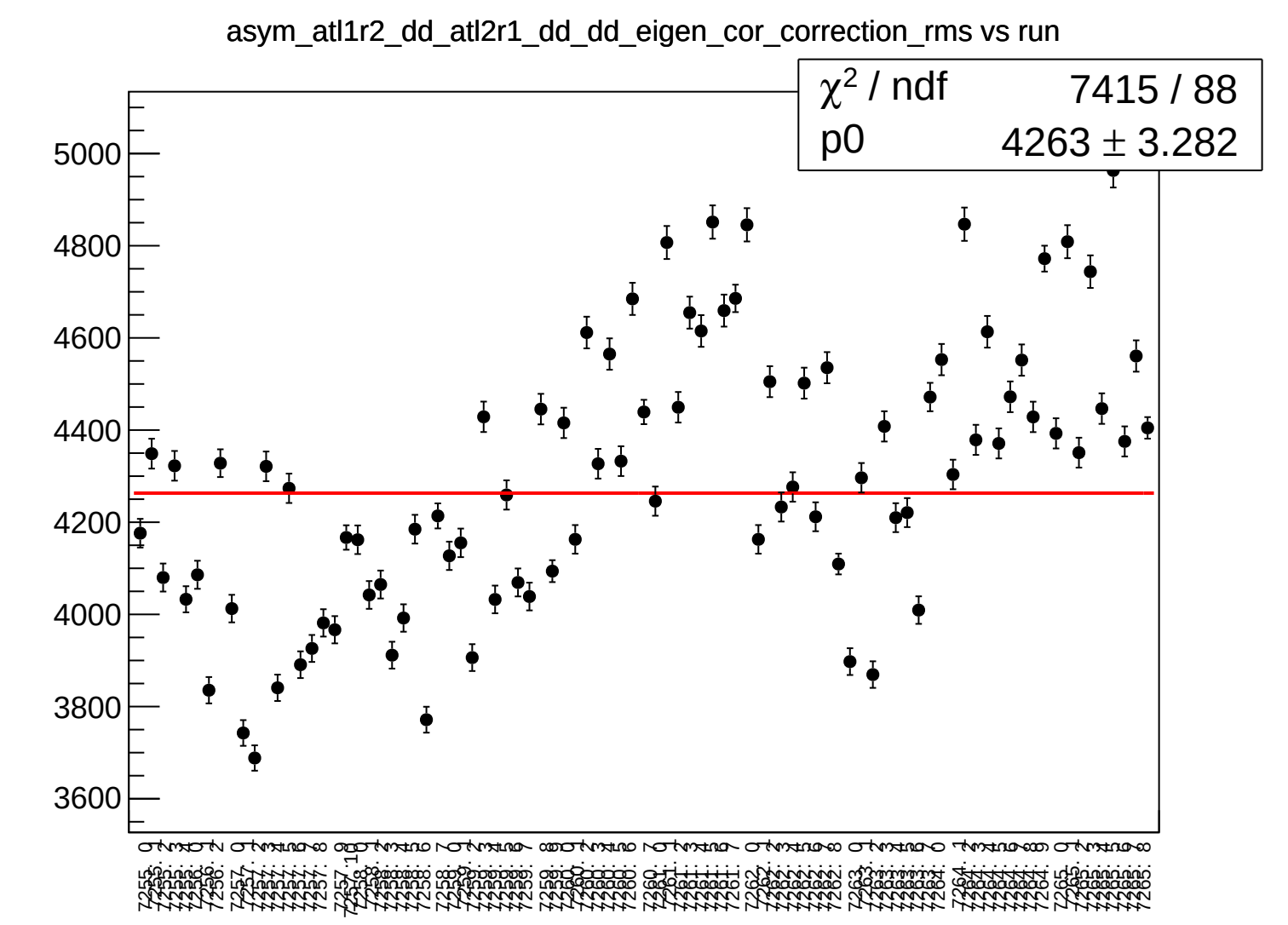

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 7415 / 88
p0 4263 ± 3.282
5000
4800
4600
4400
4200
4000
3800
3600

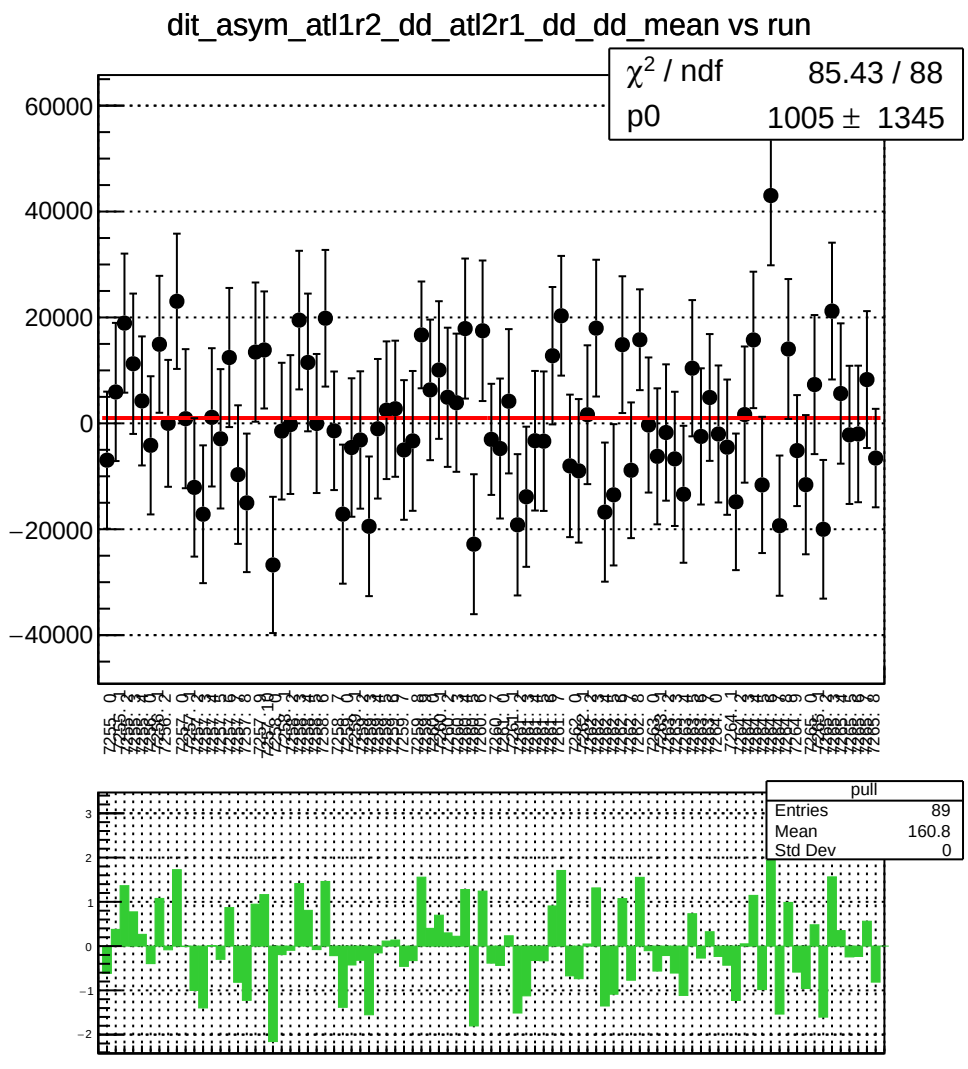

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 87.22 / 88
p0 704.1 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 173.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01065
Std Dev 0.9899
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

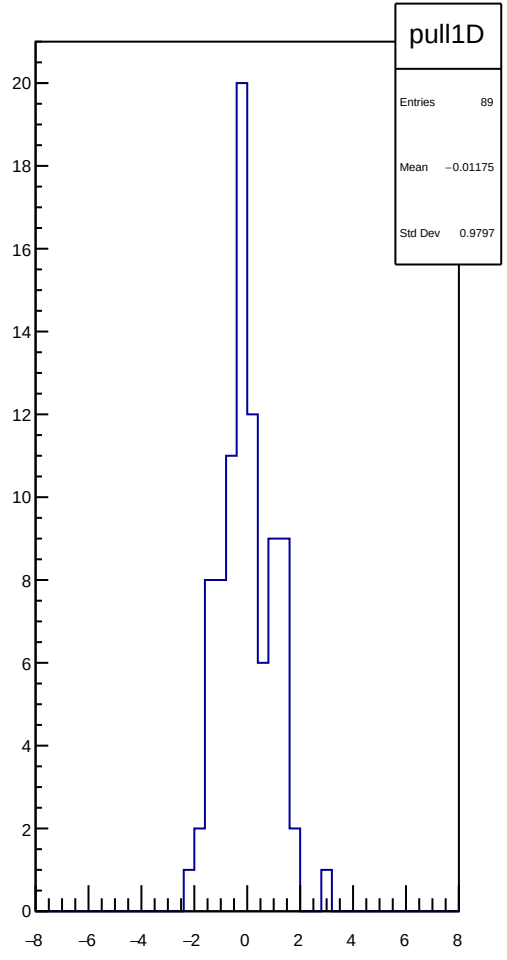

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 102.7 / 88
p0 1209 ± 0.9286
1240
1230
1220
1210
1200
1190
1180

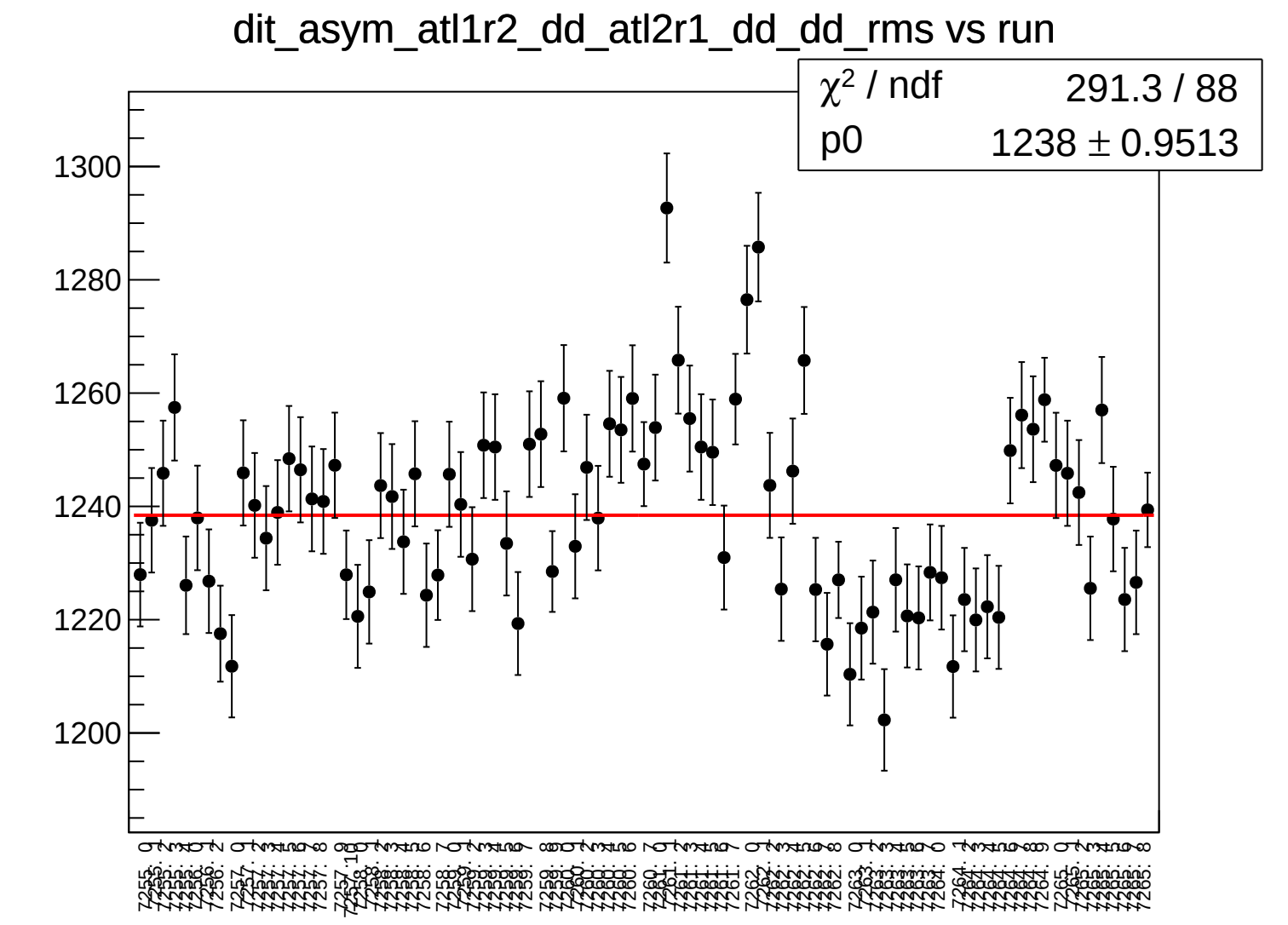

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.18 / 88
p0 −3265 ± 4641
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 1320
Std Dev 0
3
2
1
0
−1
−2

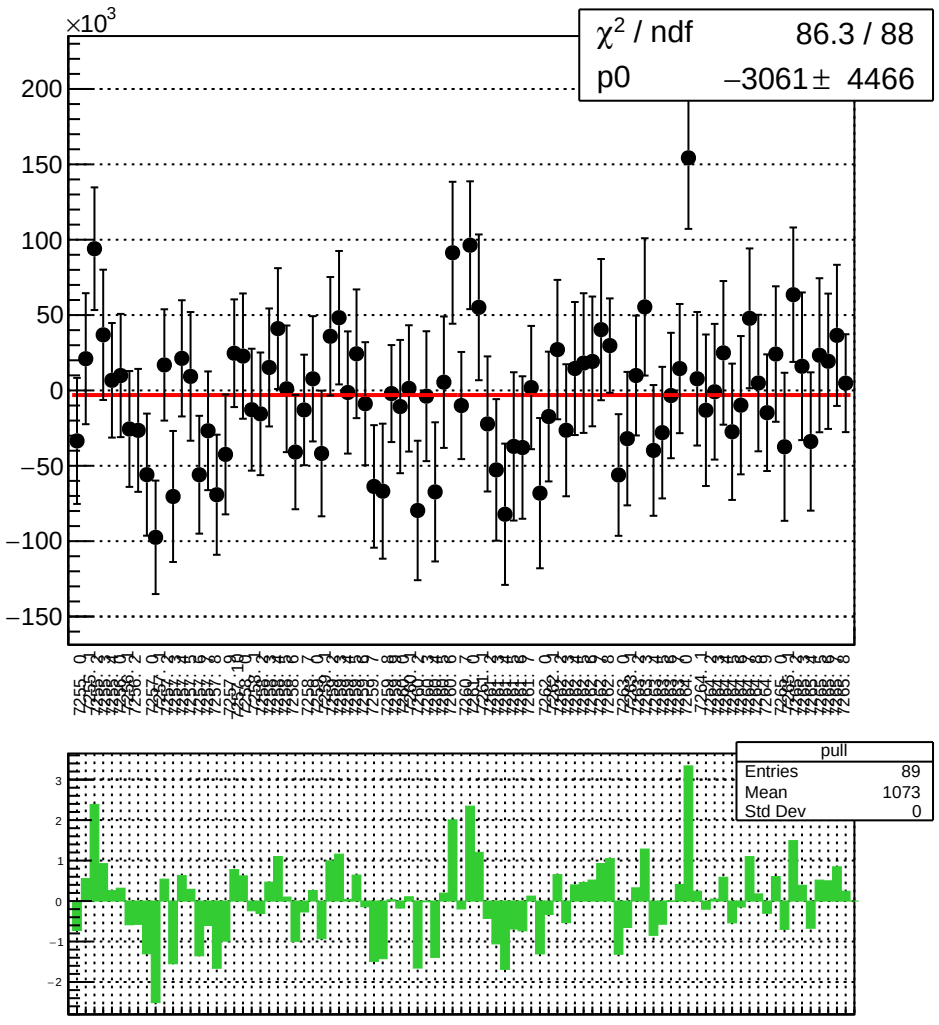

pull1D
Entries 89
Mean 0.003258
Std Dev 0.984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

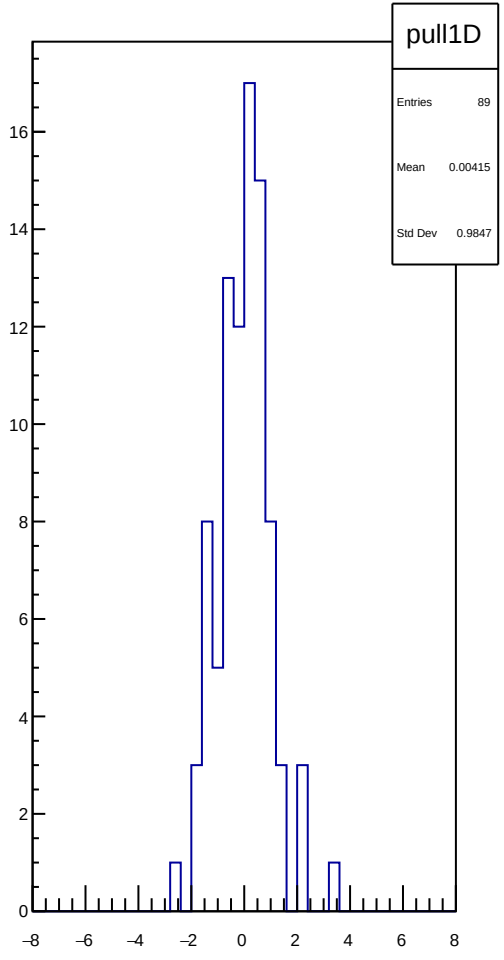

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7415 / 88
p0 4263 ± 3.282
5000
4800
4600
4400
4200
4000
3800
3600

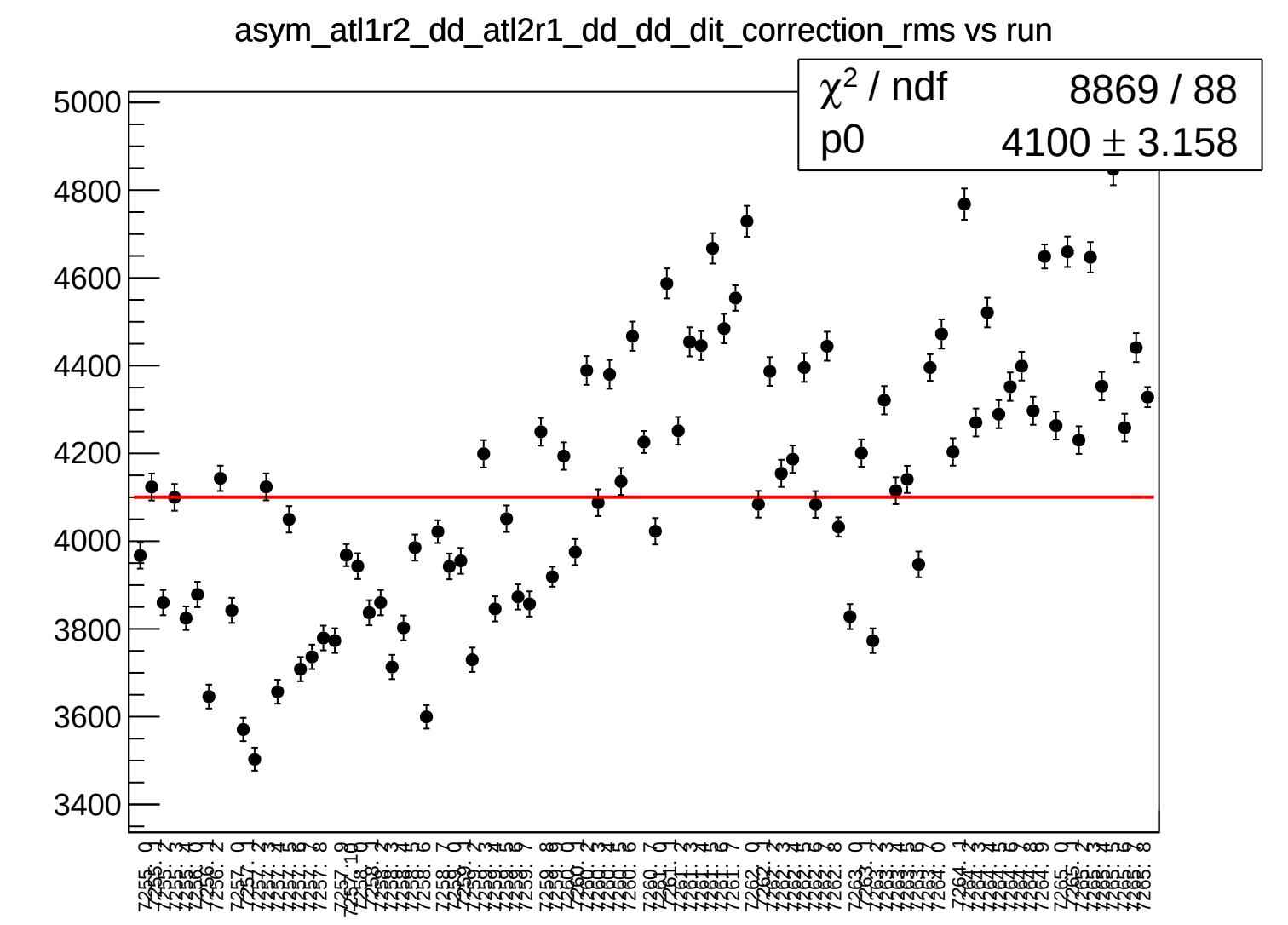

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 85.43 / 88
p0 1005 ± 1345
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 160.8
Std Dev 0
3
2
1
0
−1
−2

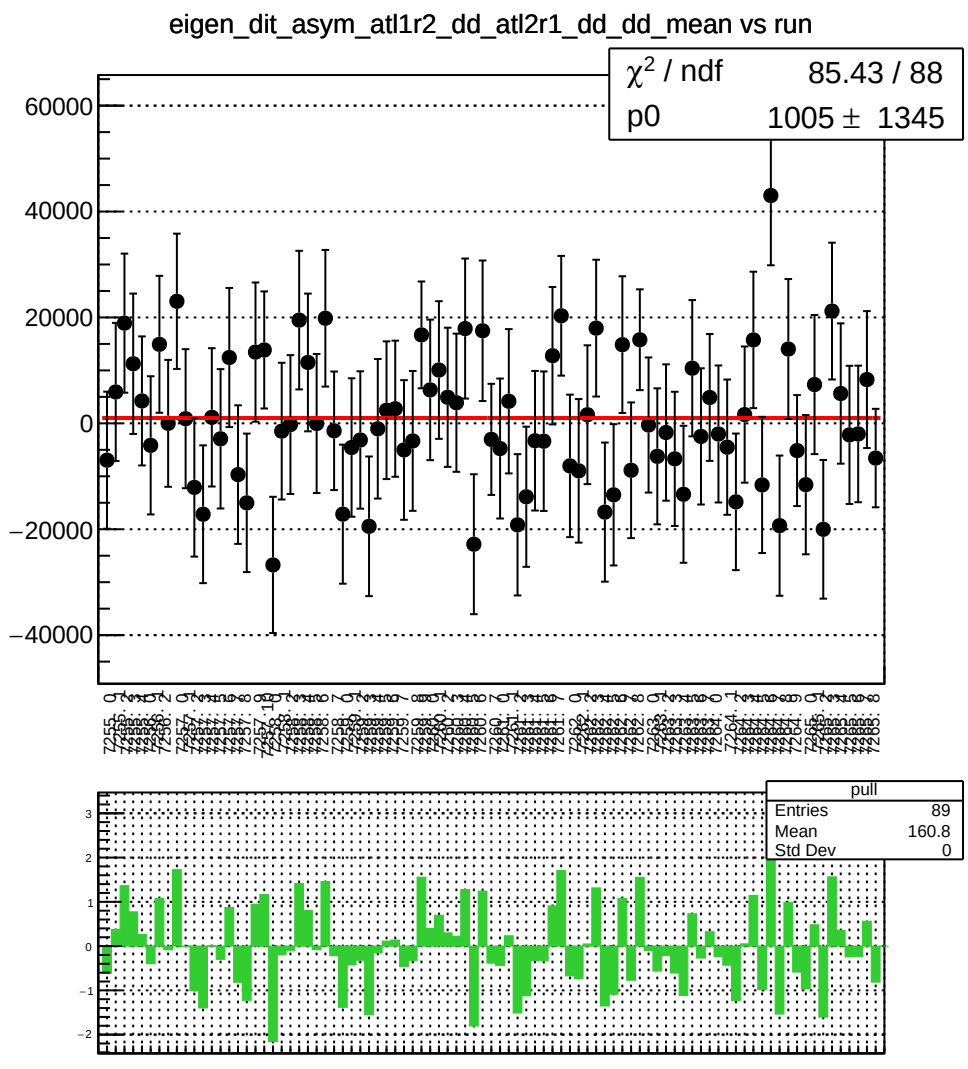

pull1D
Entries 89
Mean −0.01175
Std Dev 0.9797
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

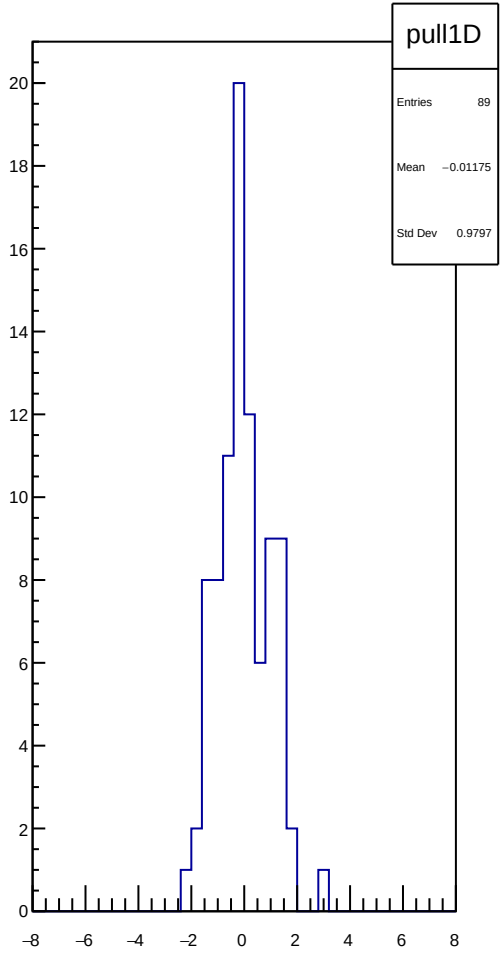

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 291.3 / 88
p0 1238 ± 0.9513
1300
1280
1260
1240
1220
1200

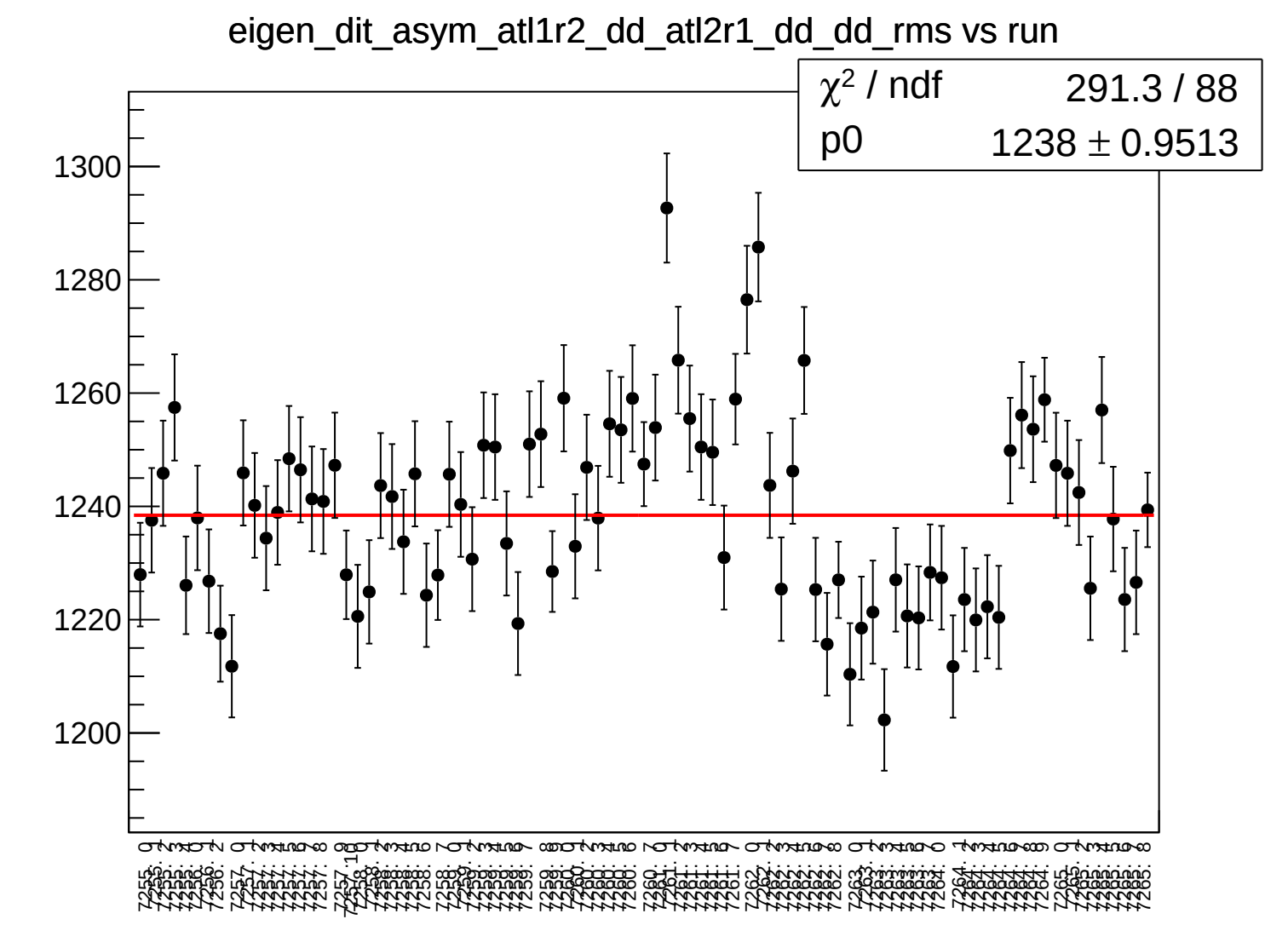

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.3 / 88
p0 −3061 ± 4466
pull
Entries 89
Mean 1073
Std Dev 0

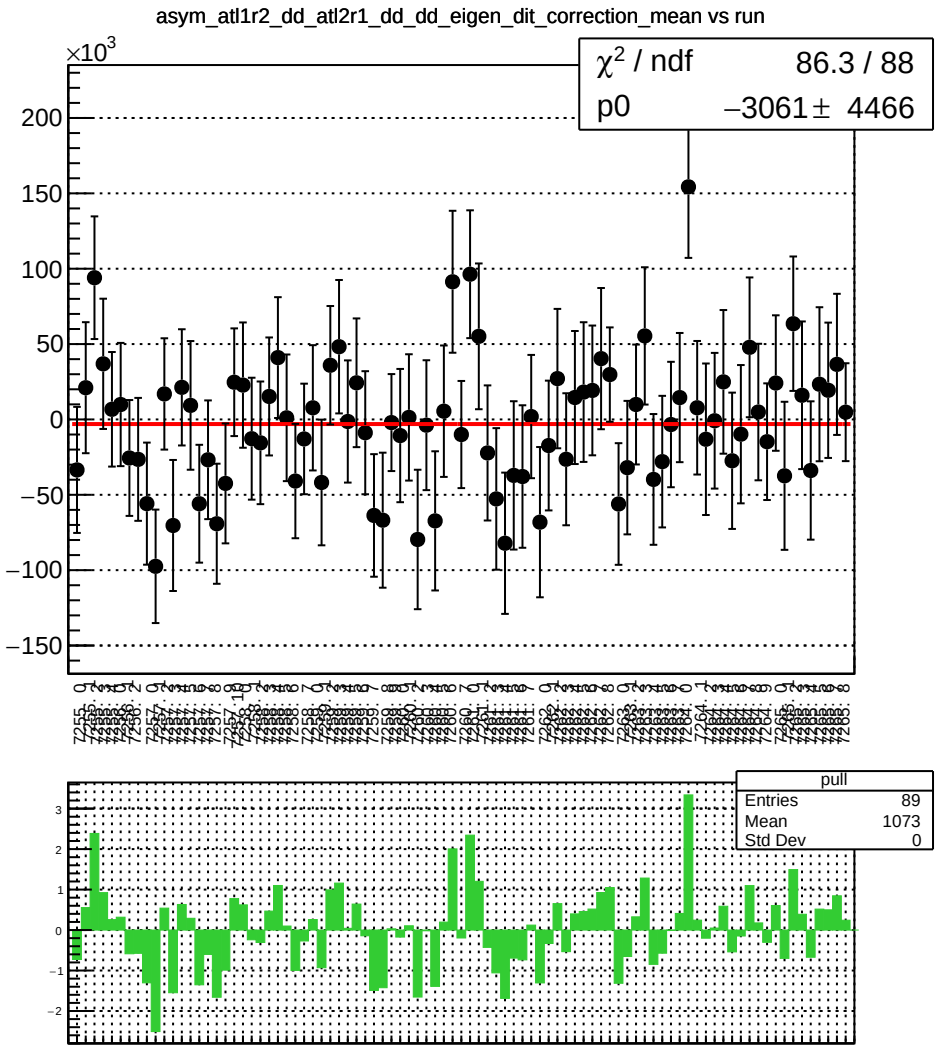

pull1D
Entries 89
Mean 0.00415
Std Dev 0.9847

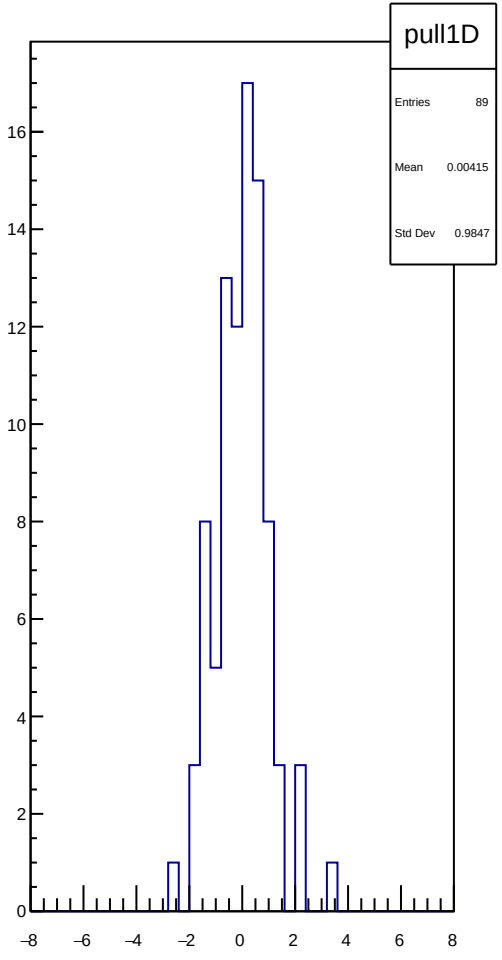

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 8869 / 88
p0 4100 ± 3.158
5000
4800
4600
4400
4200
4000
3800
3600
3400

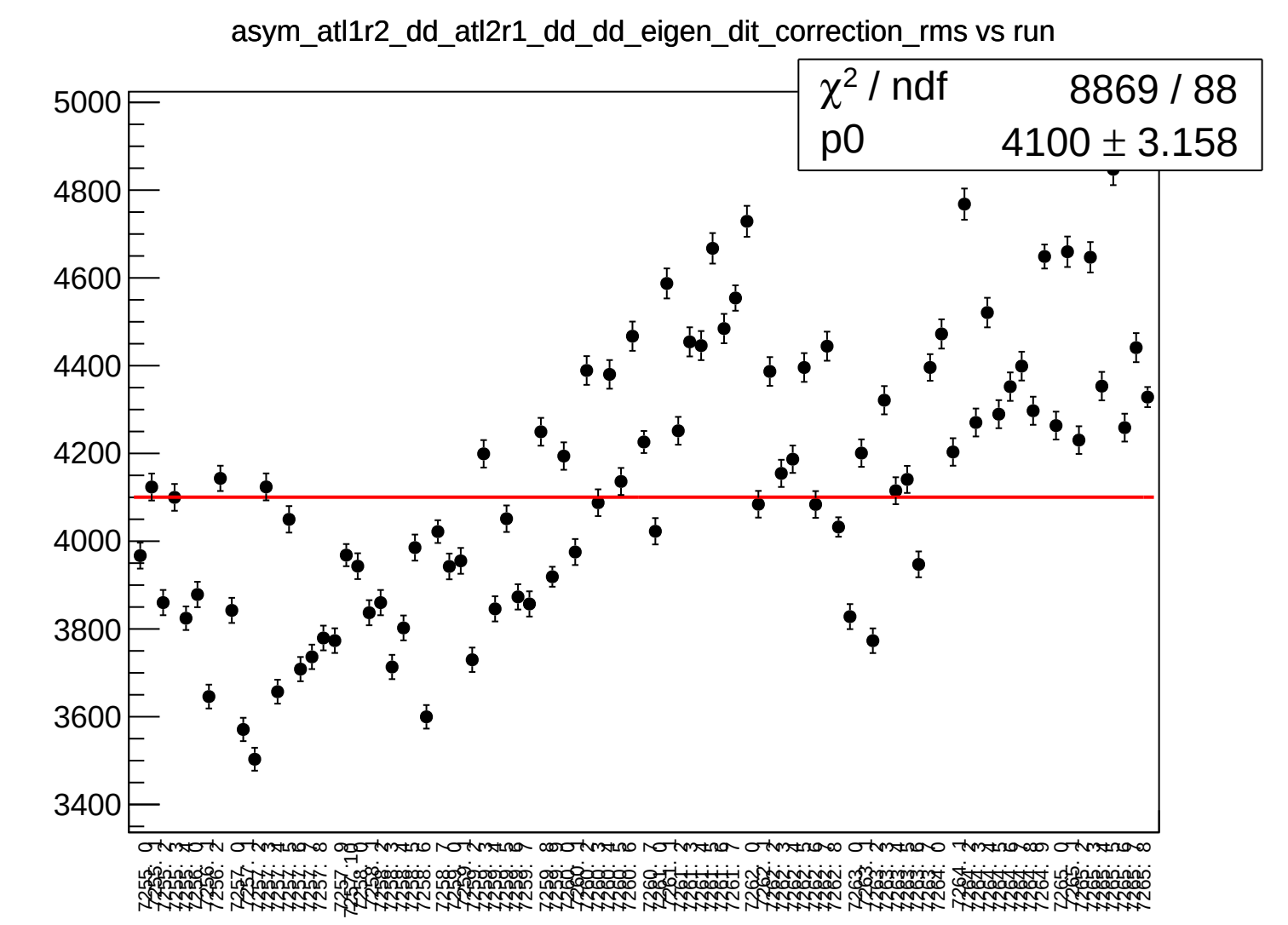

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 85.43 / 88
p0 1005 ± 1345
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 160.8
Std Dev 0
3
2
1
0
−1
−2

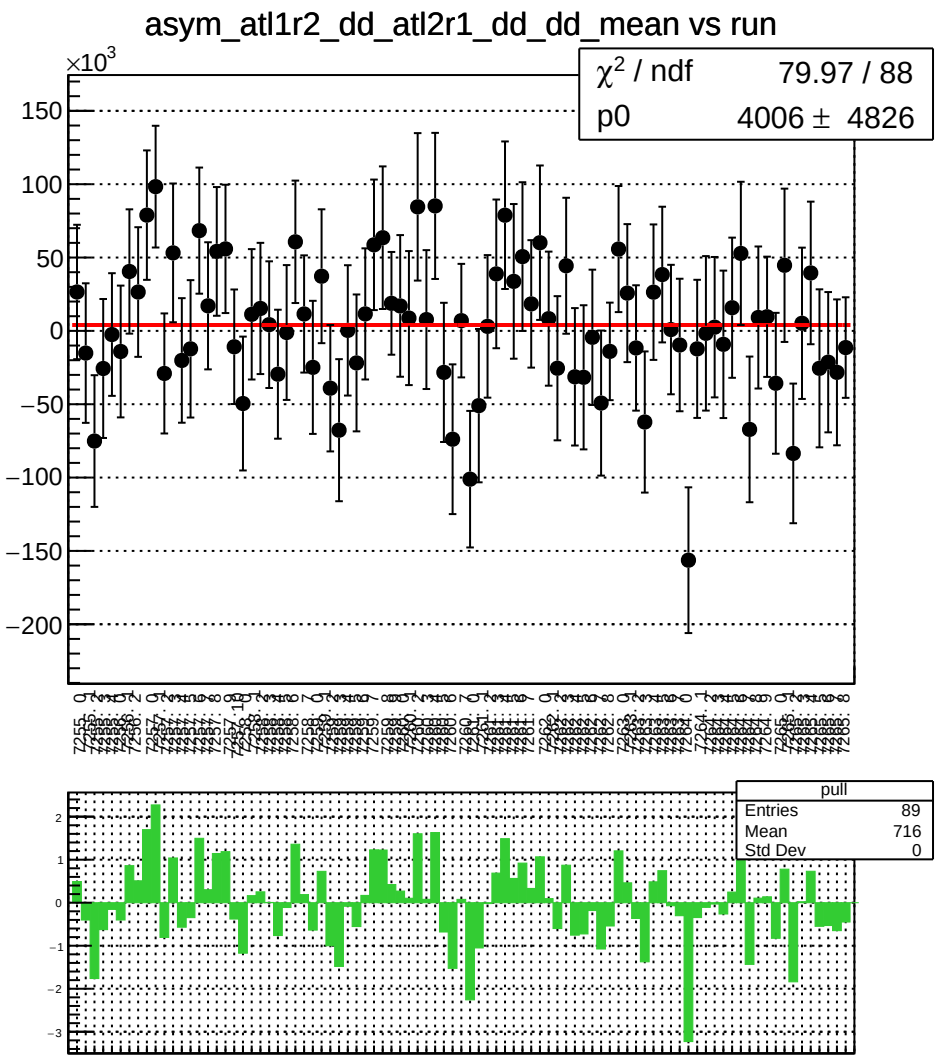

pull1D
Entries 89
Mean −0.01175
Std Dev 0.9797
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

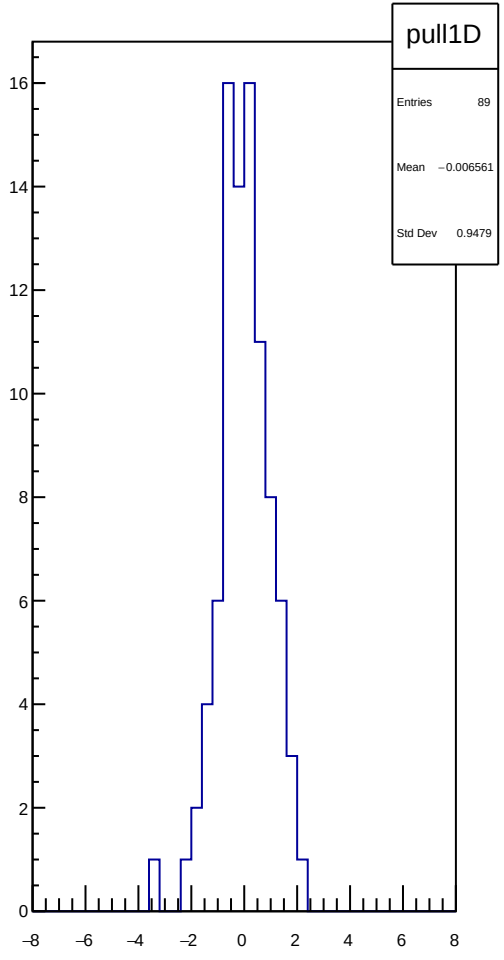

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 291.3 / 88
p0 1238 ± 0.9513
1300
1280
1260
1240
1220
1200

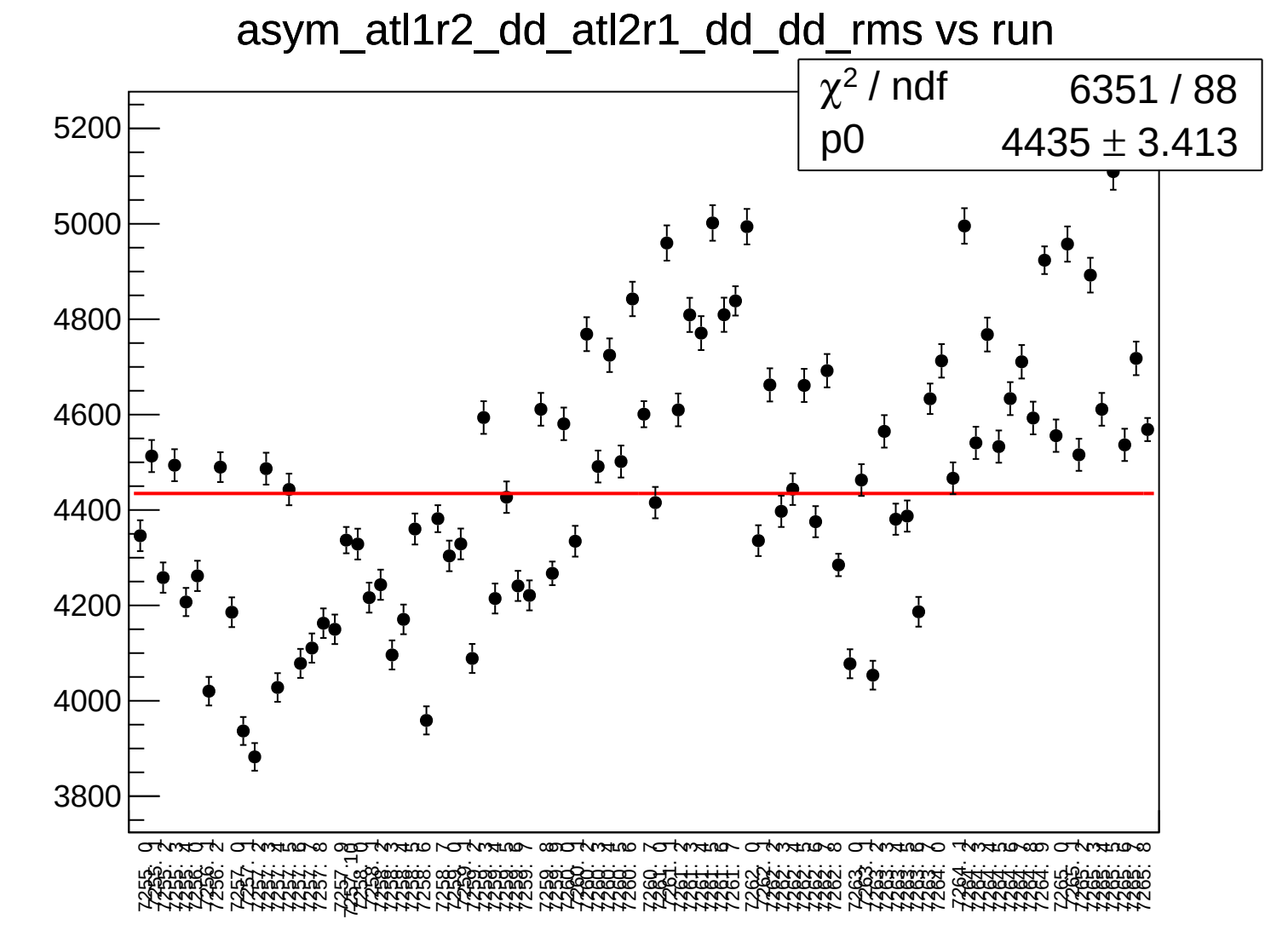

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.3 / 88
p0 −3061 ± 4466
pull
Entries 89
Mean 1073
Std Dev 0

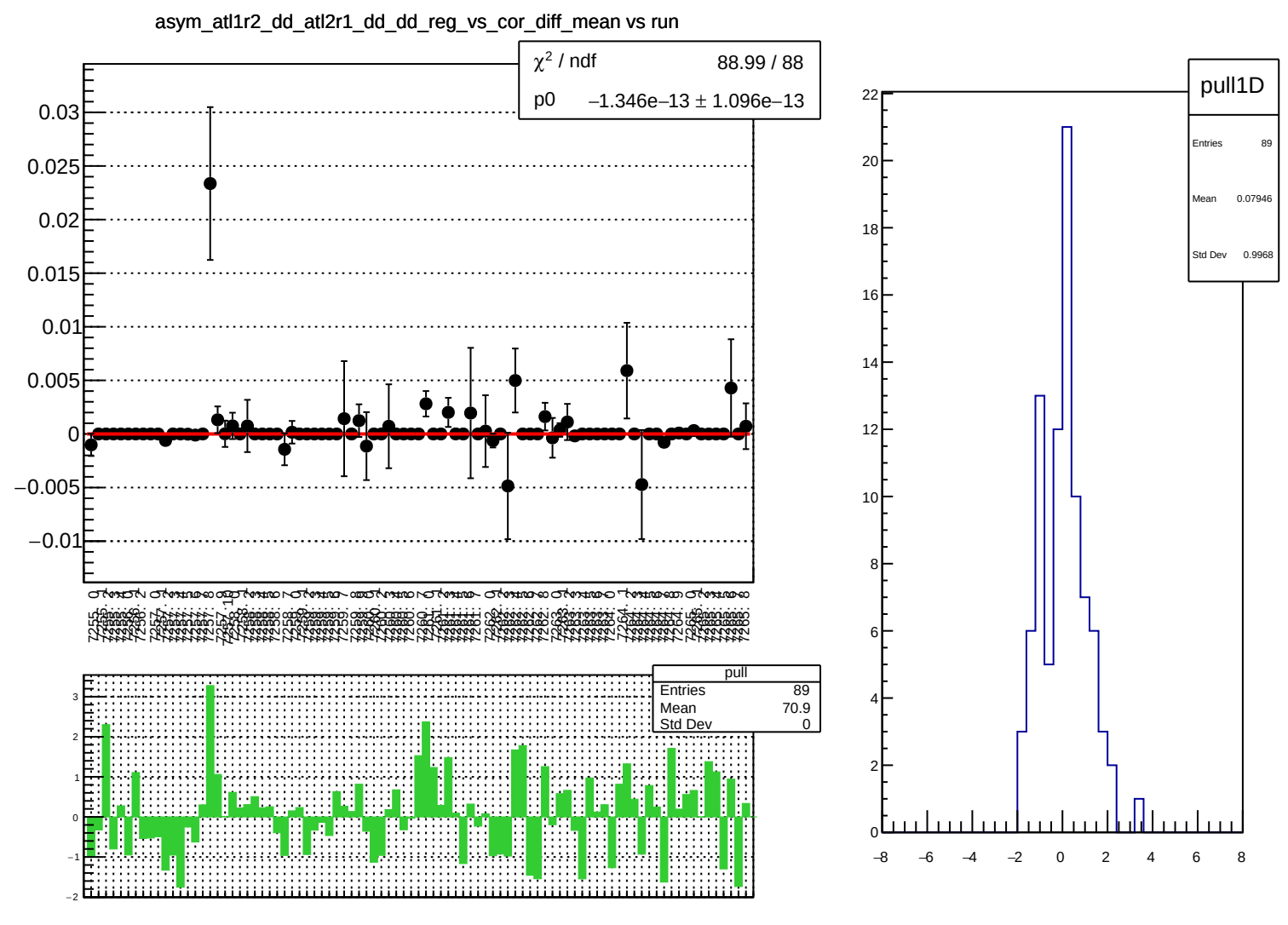

pull1D
Entries 89
Mean 0.00415
Std Dev 0.9847

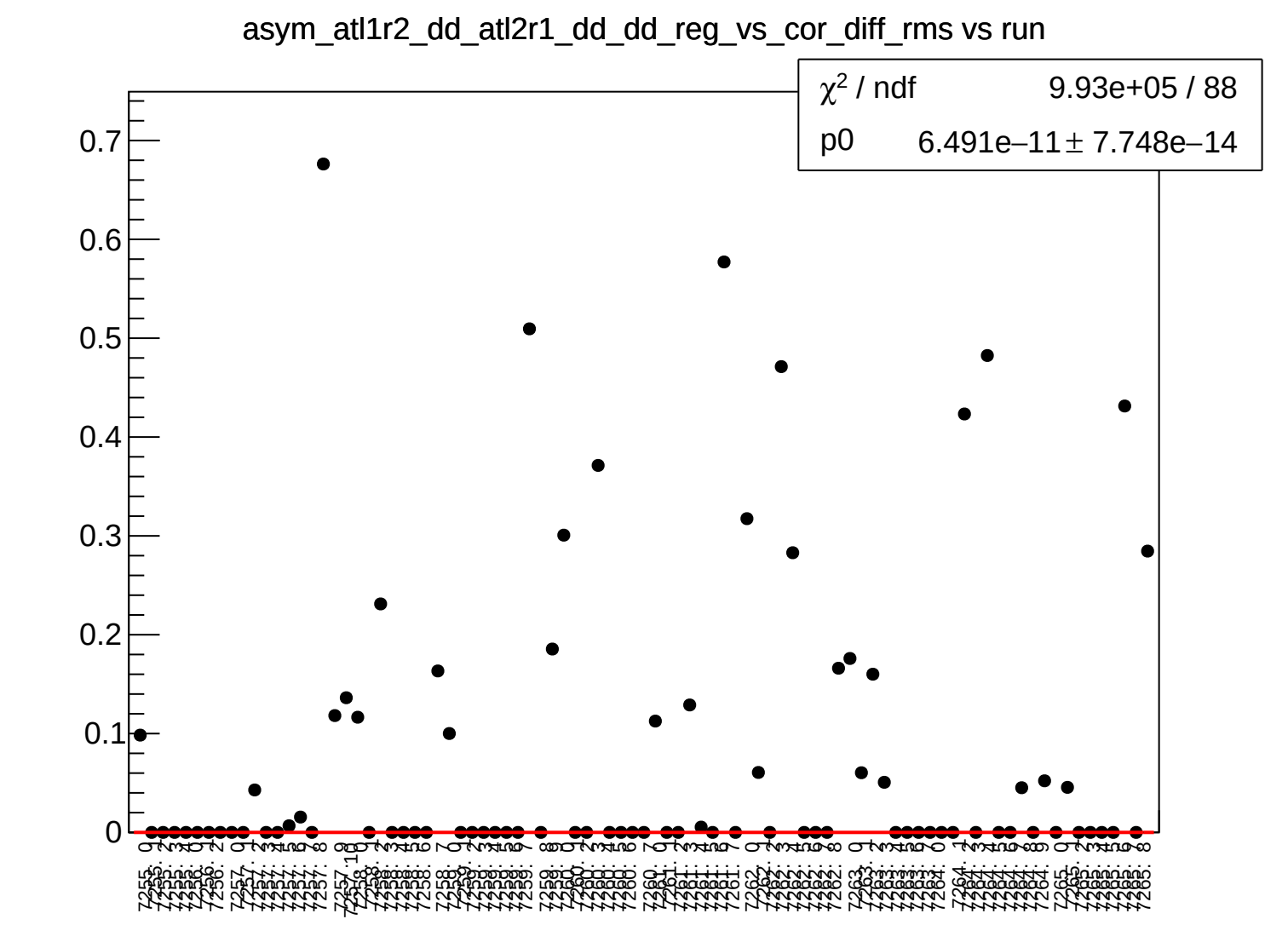

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 8869 / 88
p0 4100 ± 3.158
5000
4800
4600
4400
4200
4000
3800
3600
3400

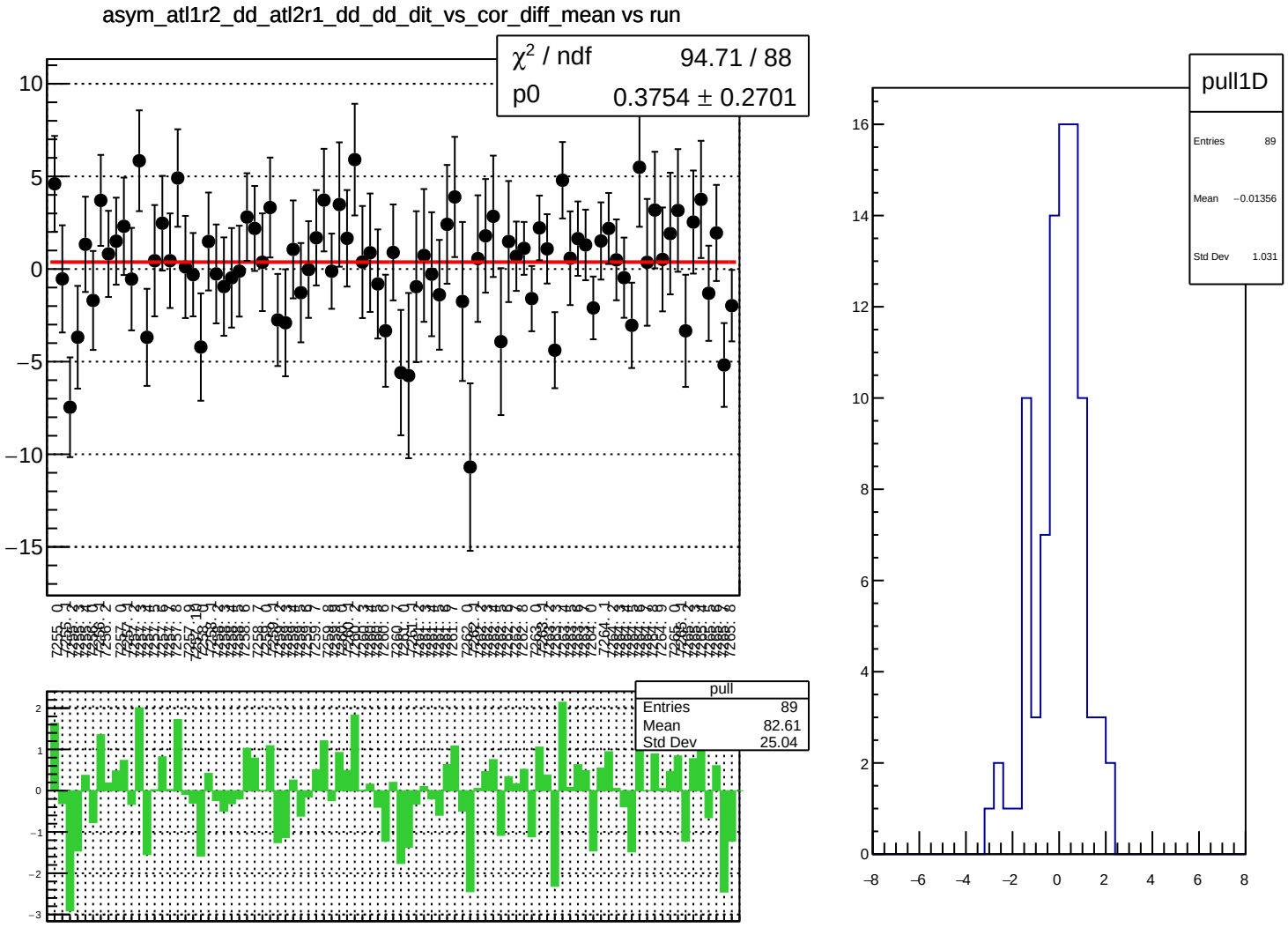

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 79.97 / 88
p0 4006 ± 4826
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 716
Std Dev 0
2
1
0
−1
−2
−3

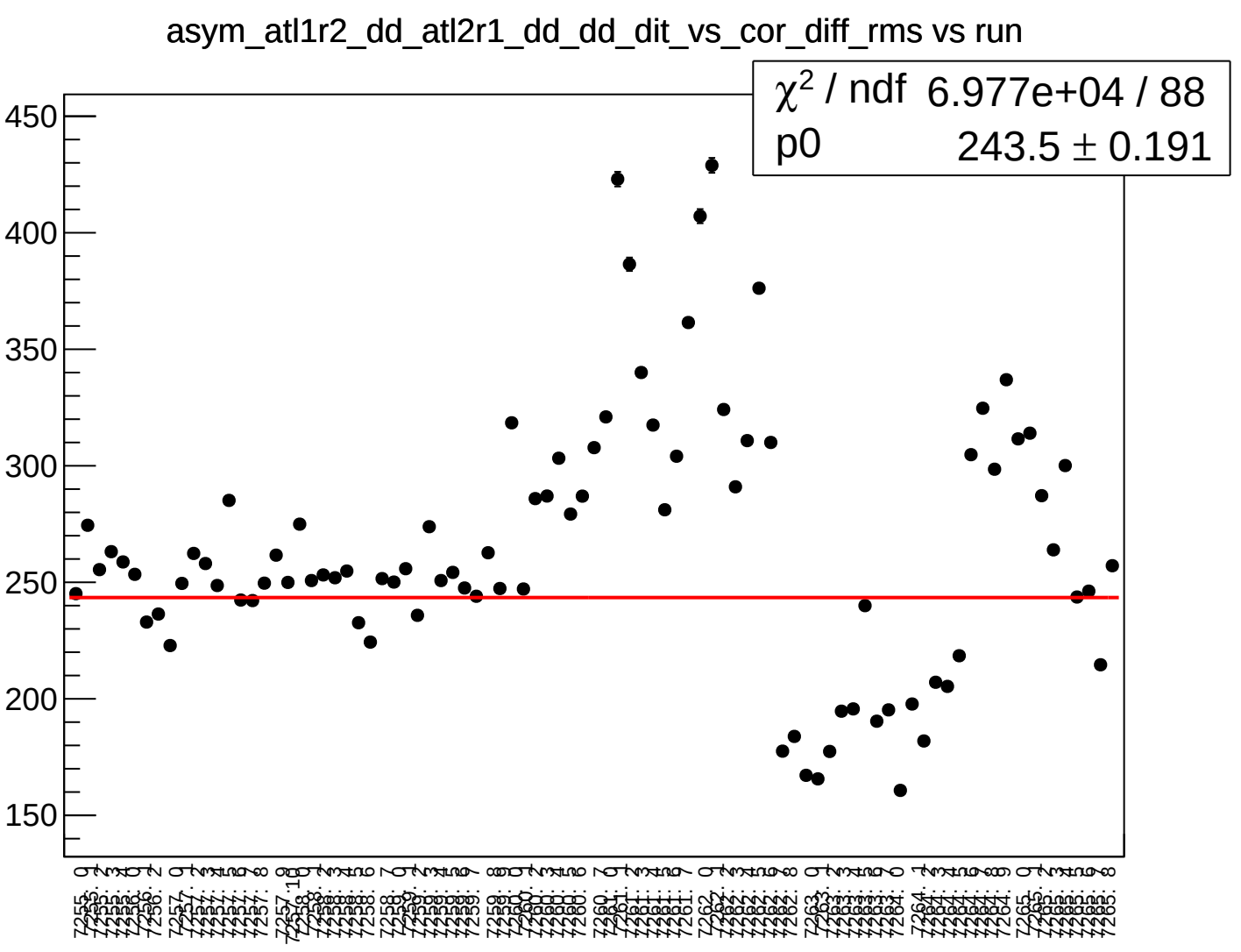

pull1D
Entries 89
Mean −0.006561
Std Dev 0.9479
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

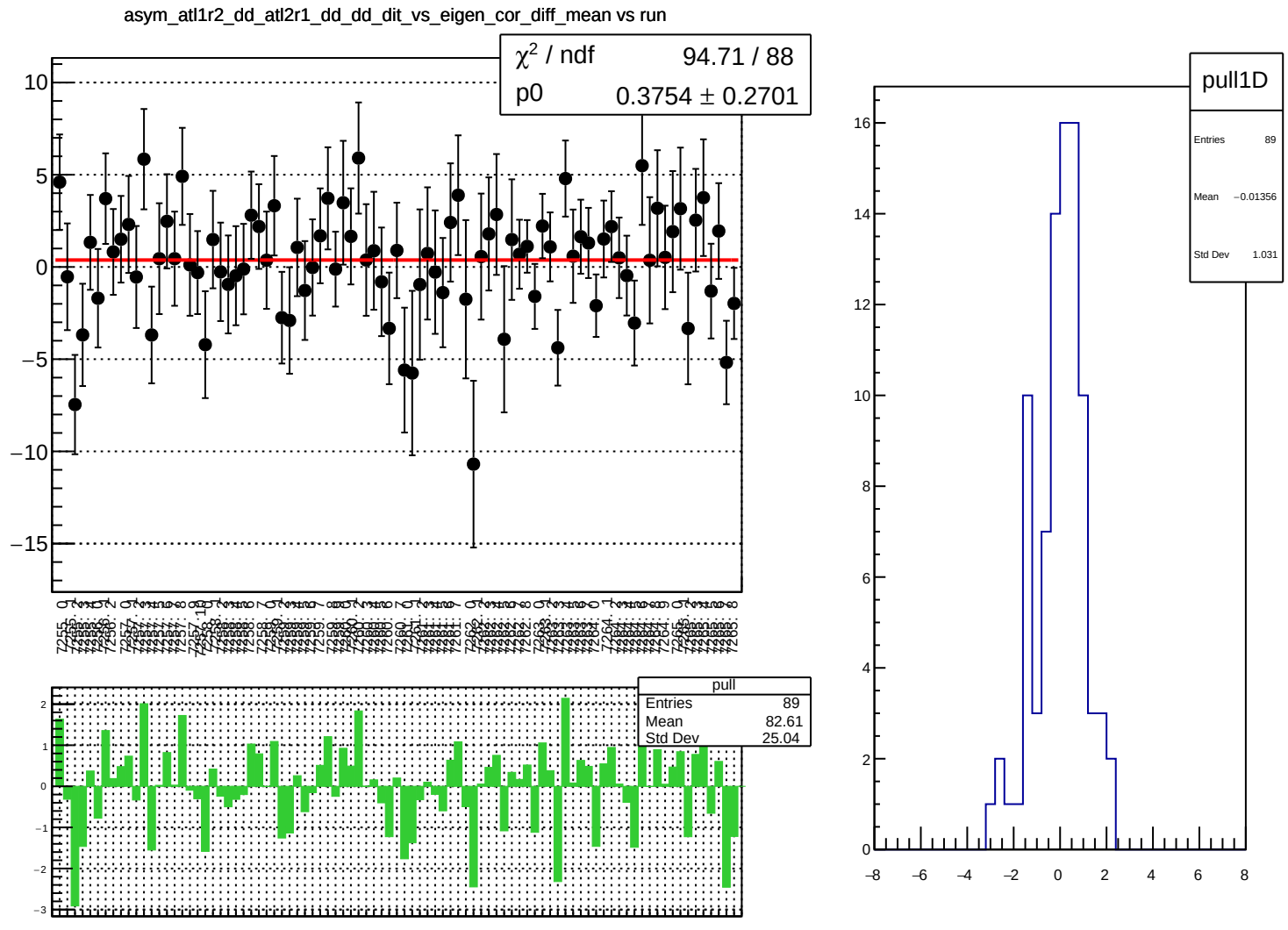

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 6351 / 88
p0 4435 ± 3.413
5200
5000
4800
4600
4400
4200
4000
3800

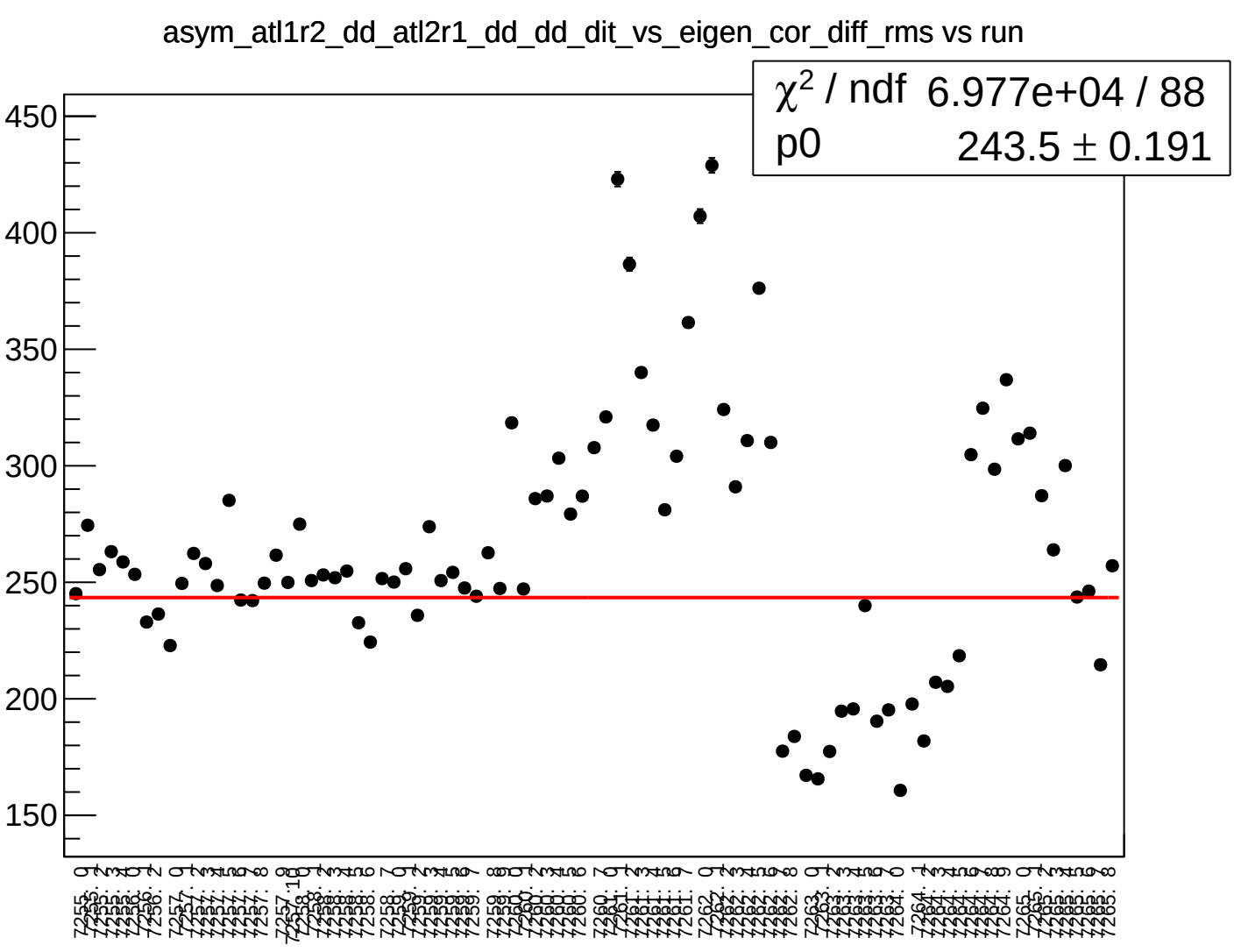

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.99 / 88
p0 −1.346e−13 ± 1.096e−13
pull
Entries 89
Mean 70.9
Std Dev 0
pull1D
Entries 89
Mean 0.07946
Std Dev 0.9968

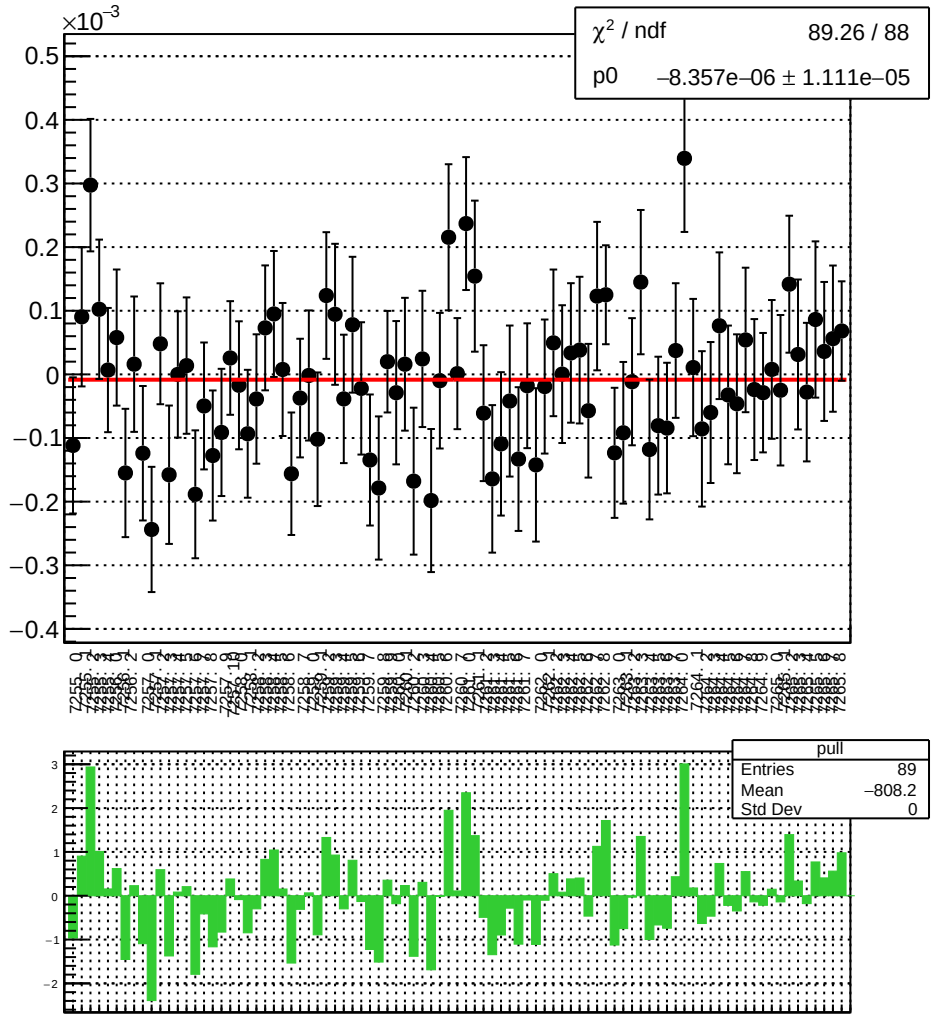

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.93e+05 / 88
p0 6.491e−11 ± 7.748e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

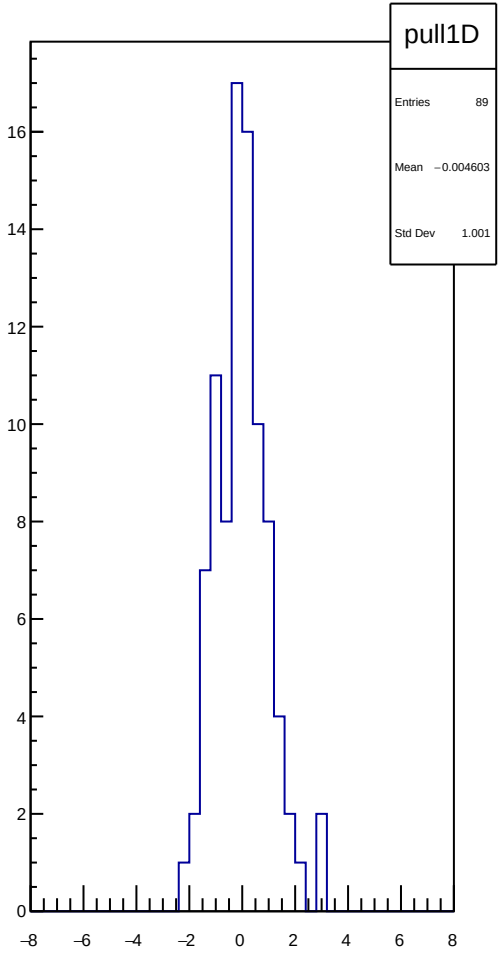

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.71 / 88
p0 0.3754 ± 0.2701
pull
Entries 89
Mean 82.61
Std Dev 25.04
pull1D
Entries 89
Mean −0.01356
Std Dev 1.031

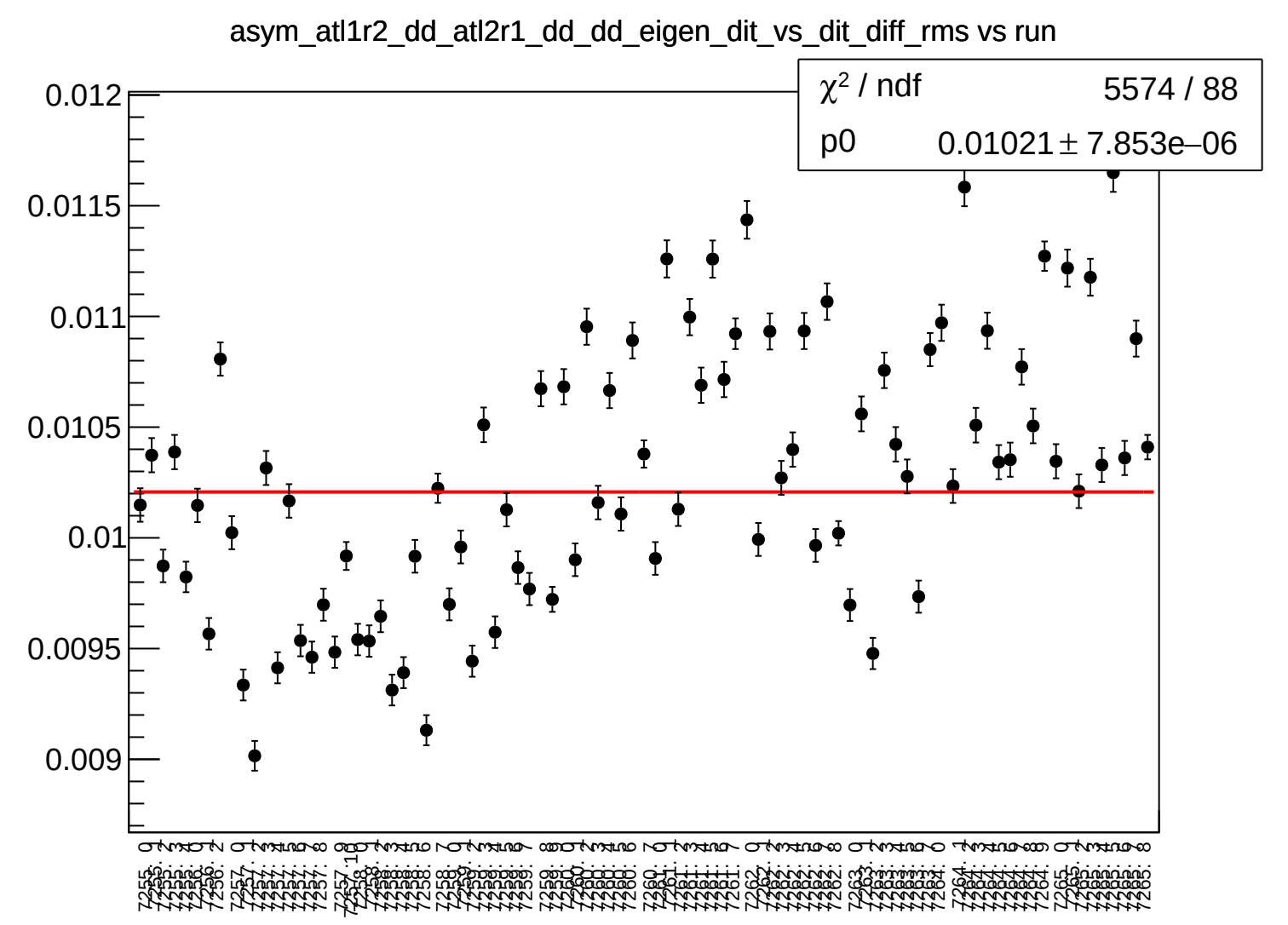

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.977e+04 / 88
p0 243.5 ± 0.191
450
400
350
300
250
200
150

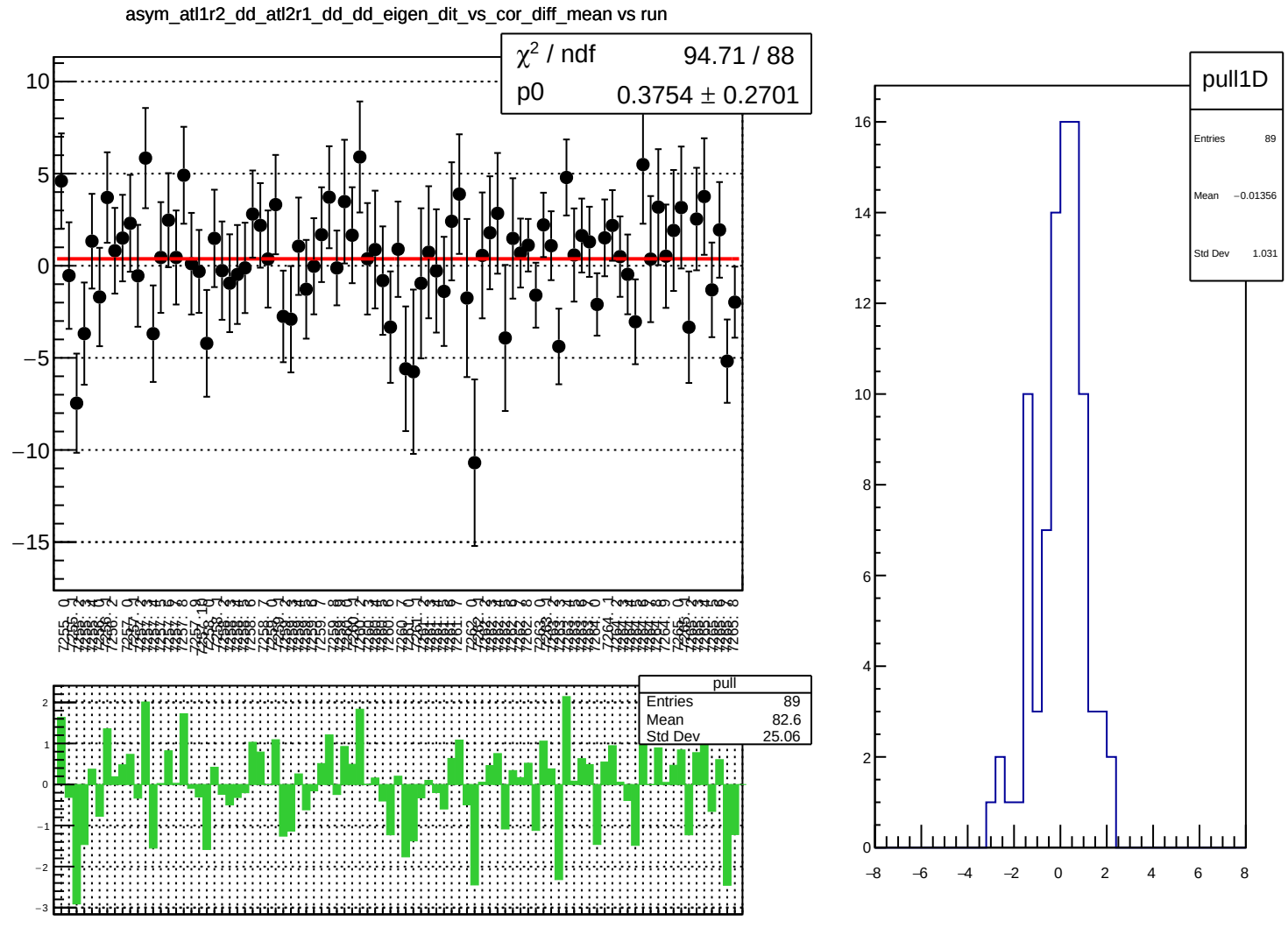

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.71 / 88
p0 0.3754 ± 0.2701
pull
Entries 89
Mean 82.61
Std Dev 25.04
pull1D
Entries 89
Mean −0.01356
Std Dev 1.031

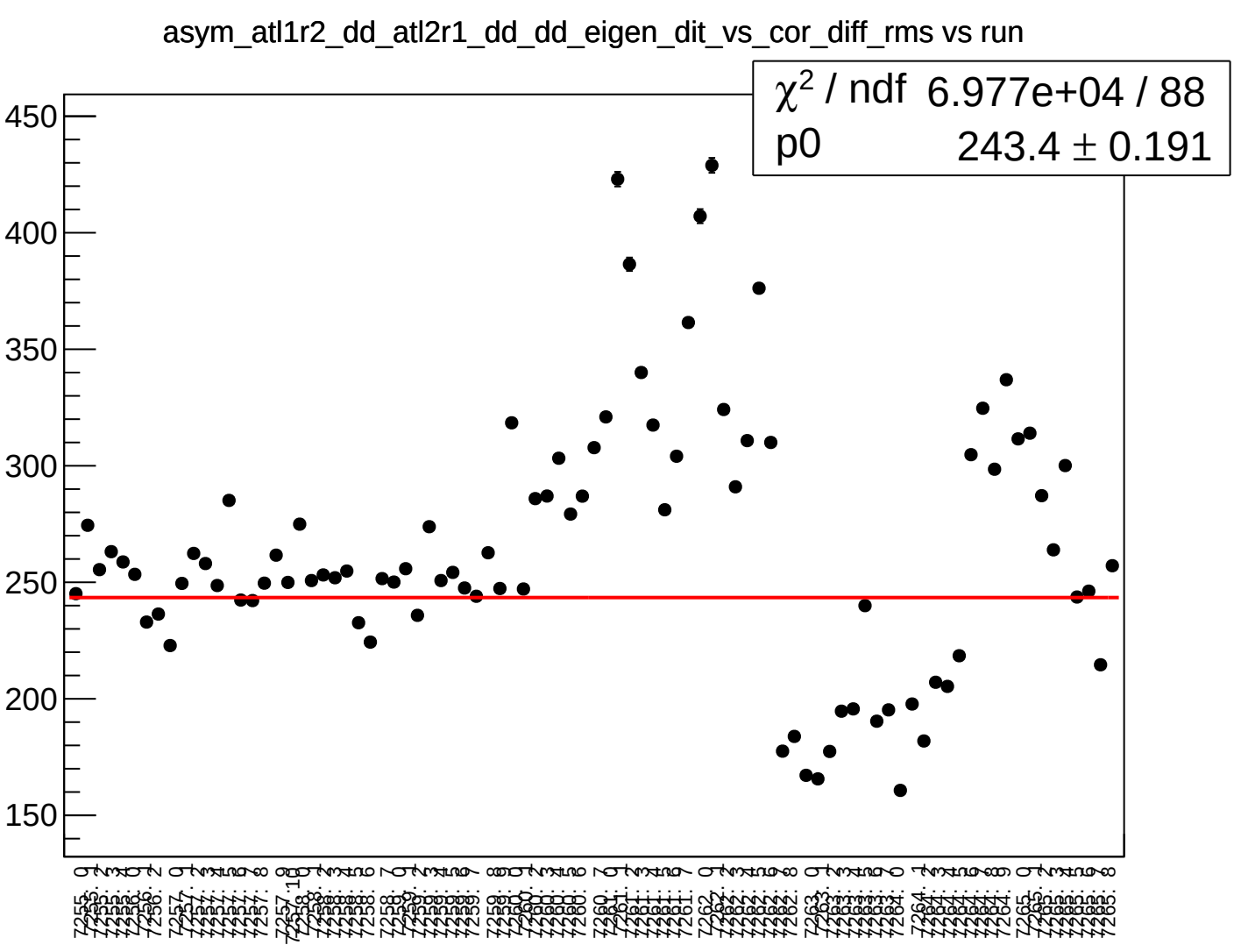

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.977e+04 / 88
p0 243.5 ± 0.191
450
400
350
300
250
200
150

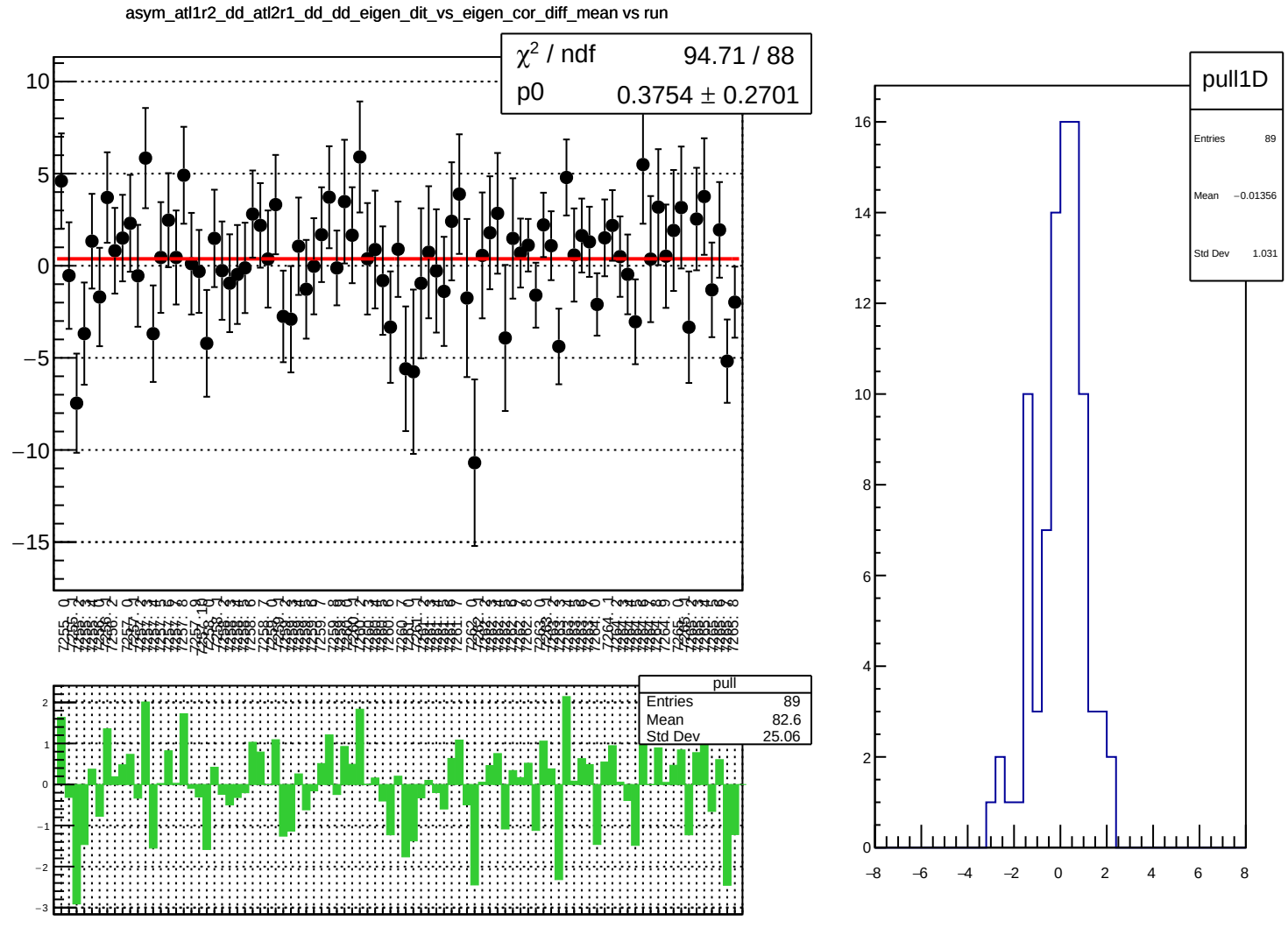

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.26 / 88
p0 −8.357e−06 ± 1.111e−05
pull
Entries 89
Mean −808.2
Std Dev 0

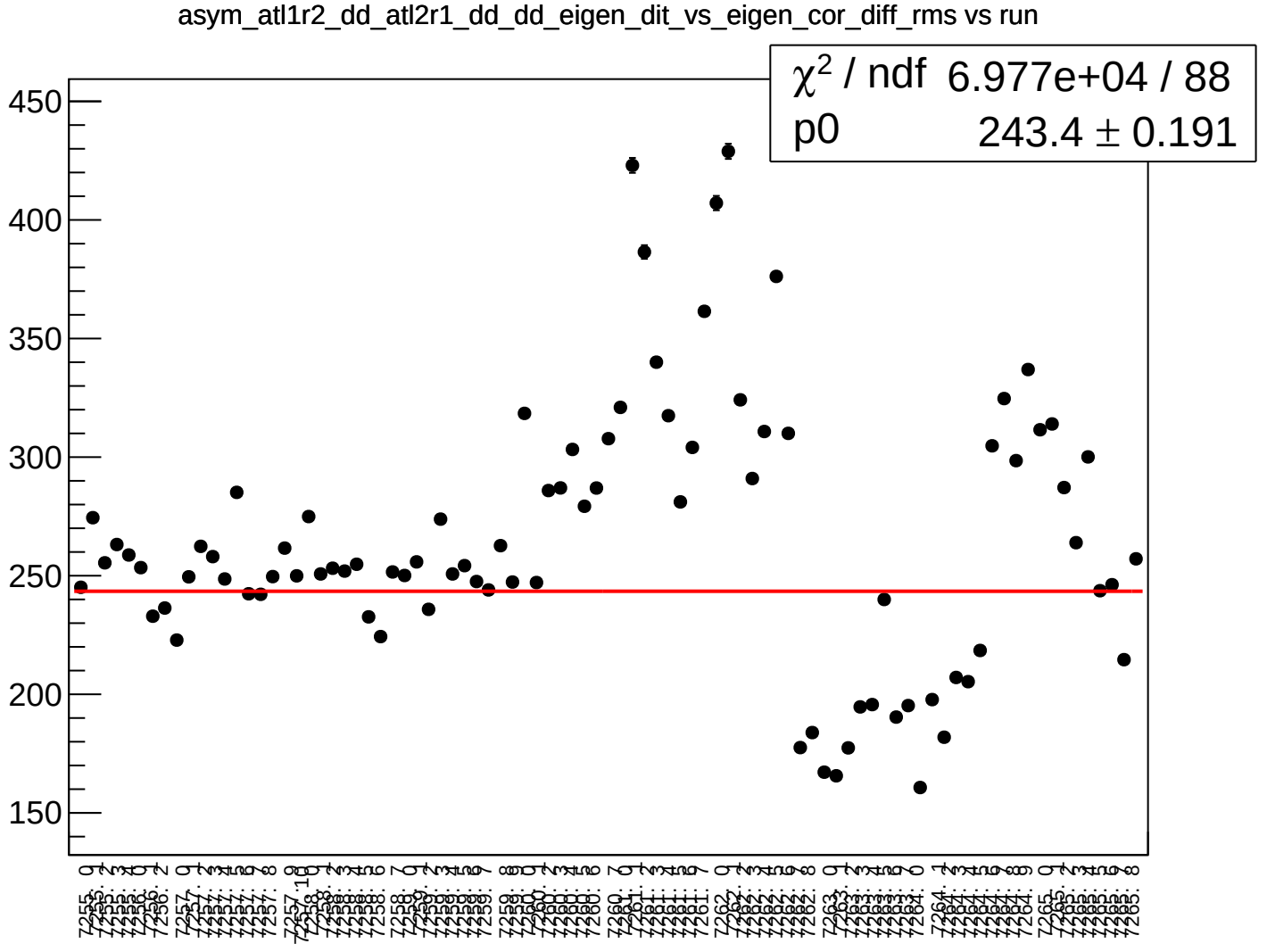

pull1D
Entries 89
Mean −0.004603
Std Dev 1.001

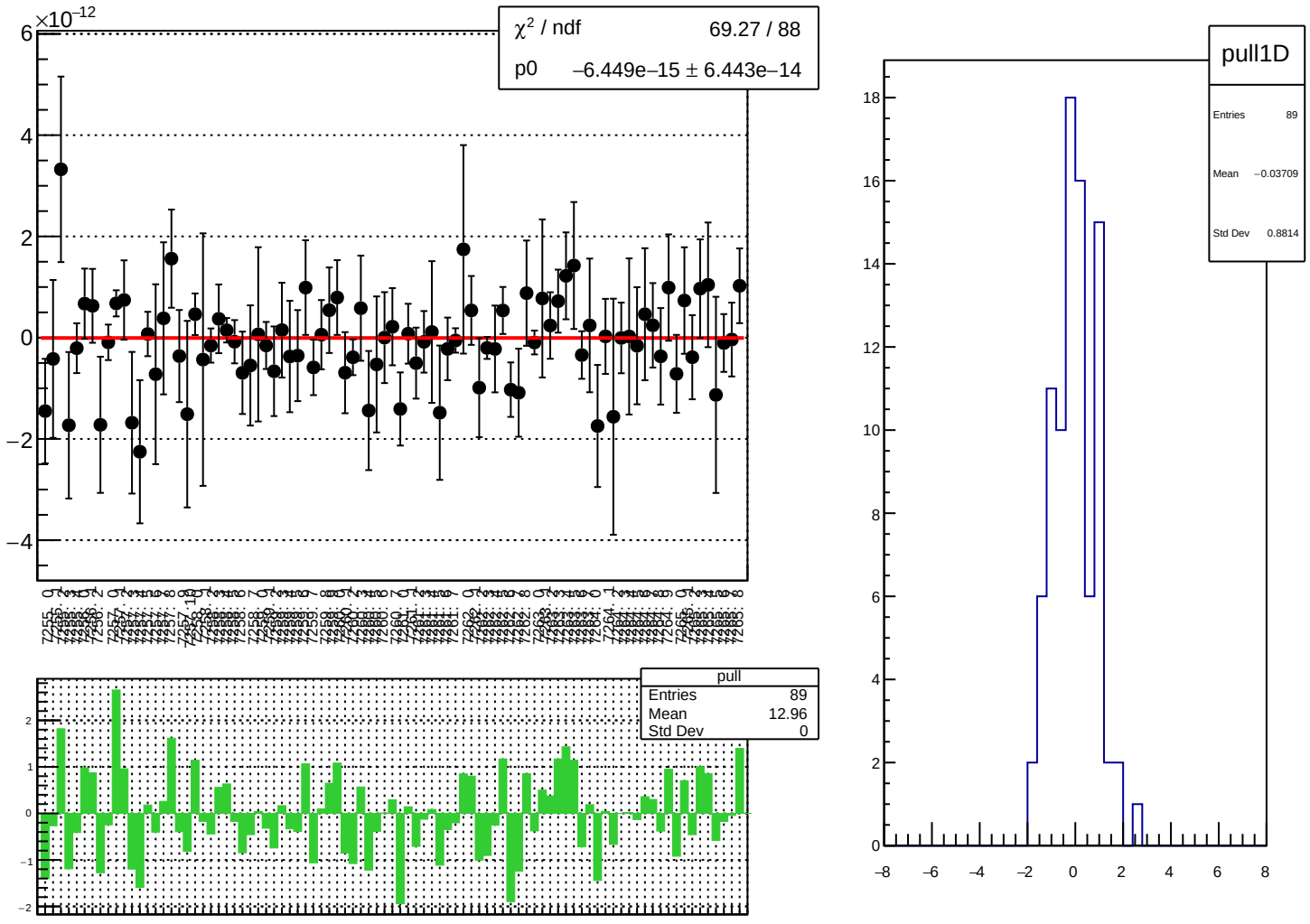

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5574 / 88
p0 0.01021 ± 7.853e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

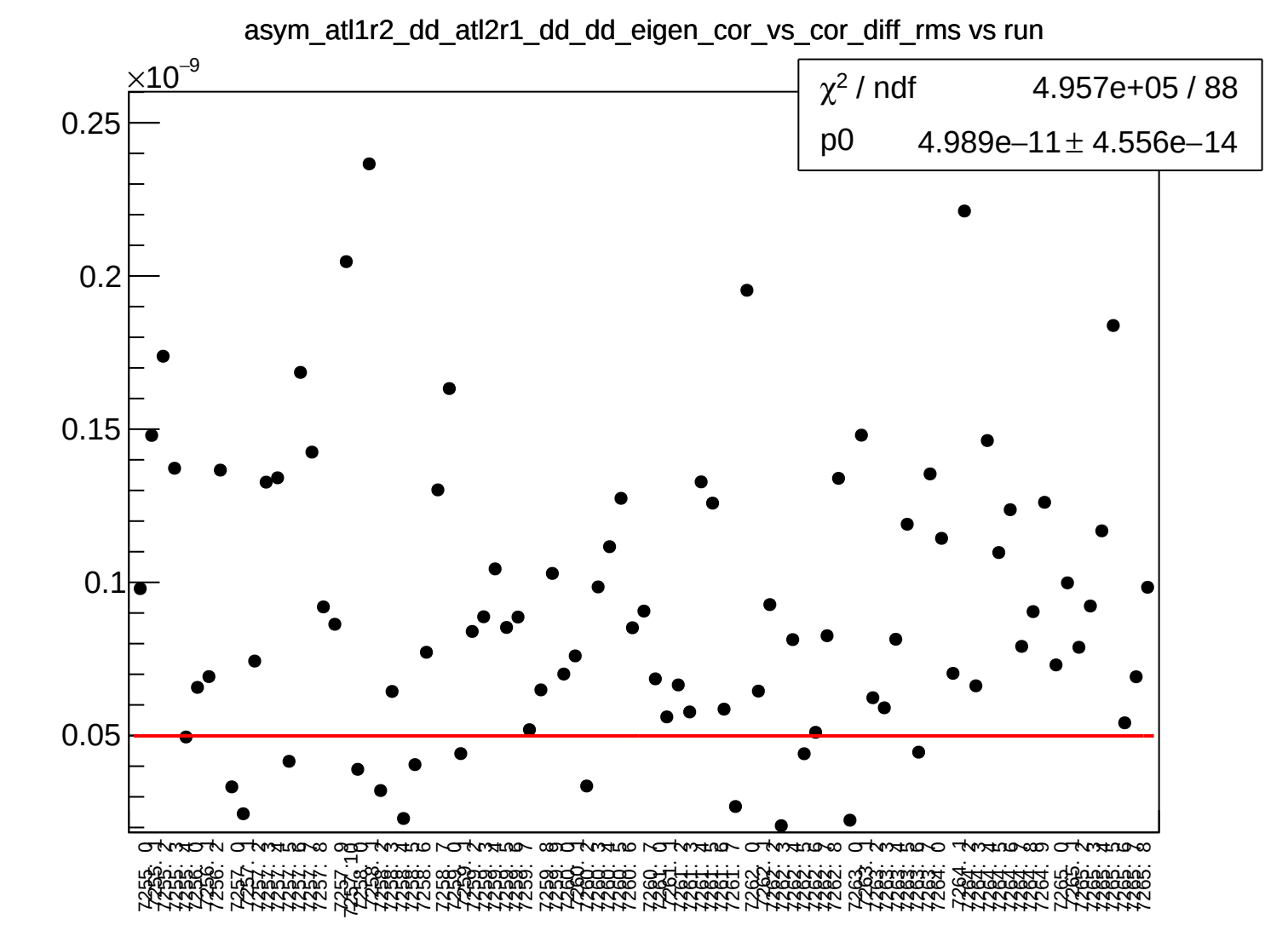

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.71 / 88
p0 0.3754 ± 0.2701
pull
Entries 89
Mean 82.6
Std Dev 25.06
pull1D
Entries 89
Mean −0.01356
Std Dev 1.031

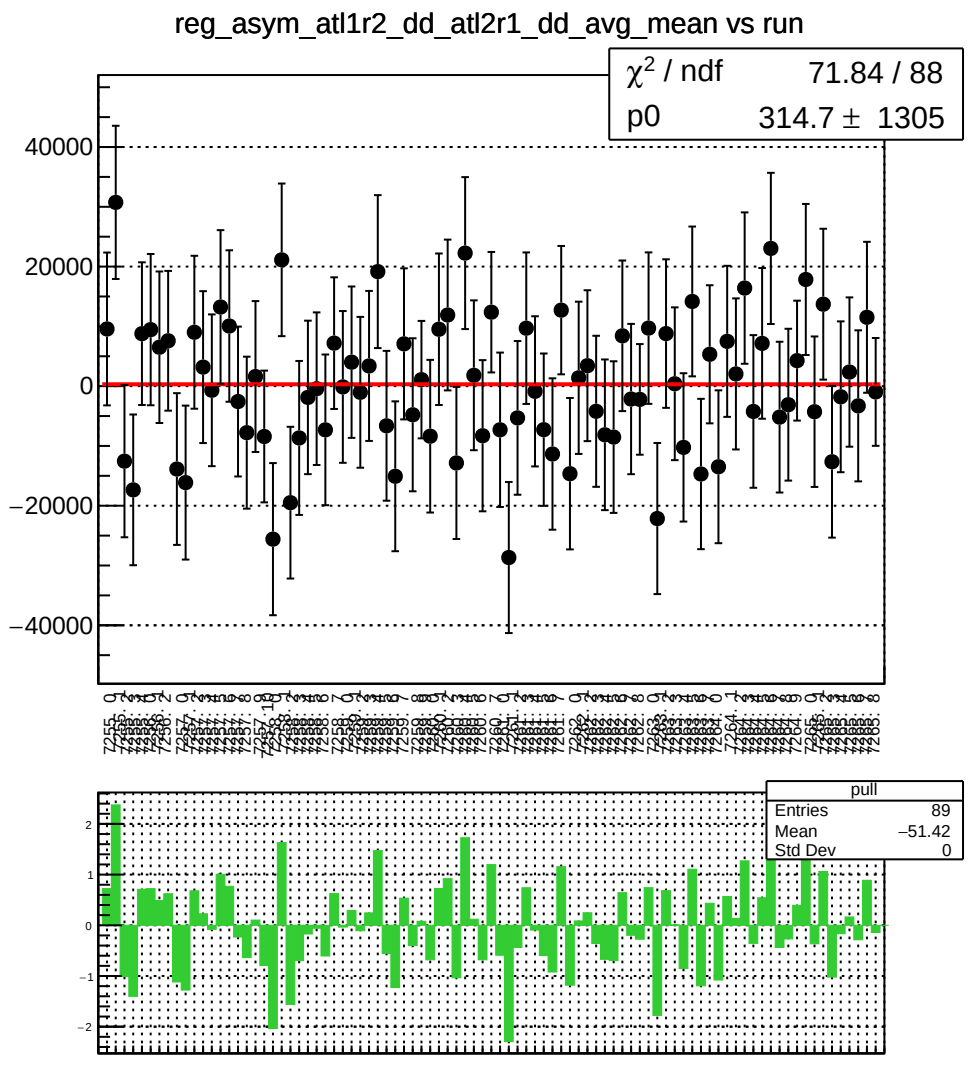

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.977e+04 / 88
p0 243.4 ± 0.191
450
400
350
300
250
200
150

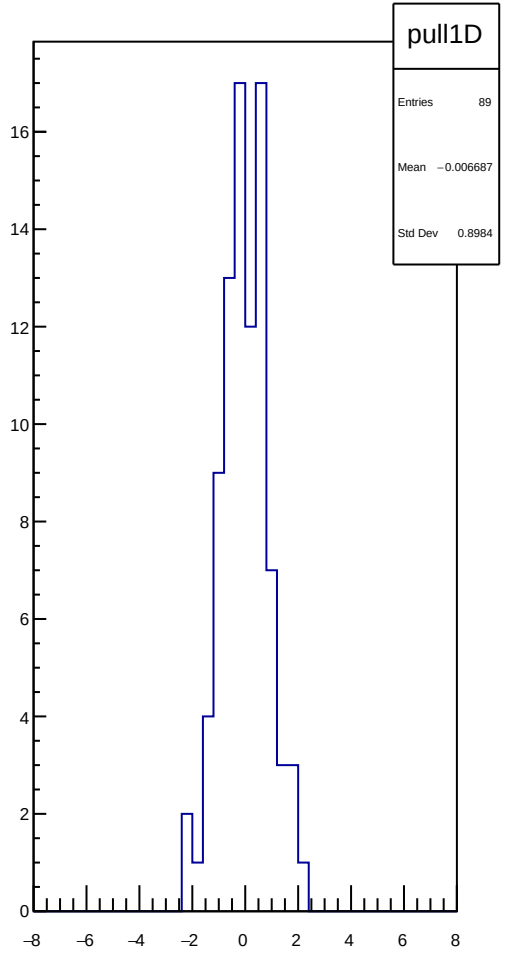

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.71 / 88
p0 0.3754 ± 0.2701
pull
Entries 89
Mean 82.6
Std Dev 25.06
pull1D
Entries 89
Mean −0.01356
Std Dev 1.031

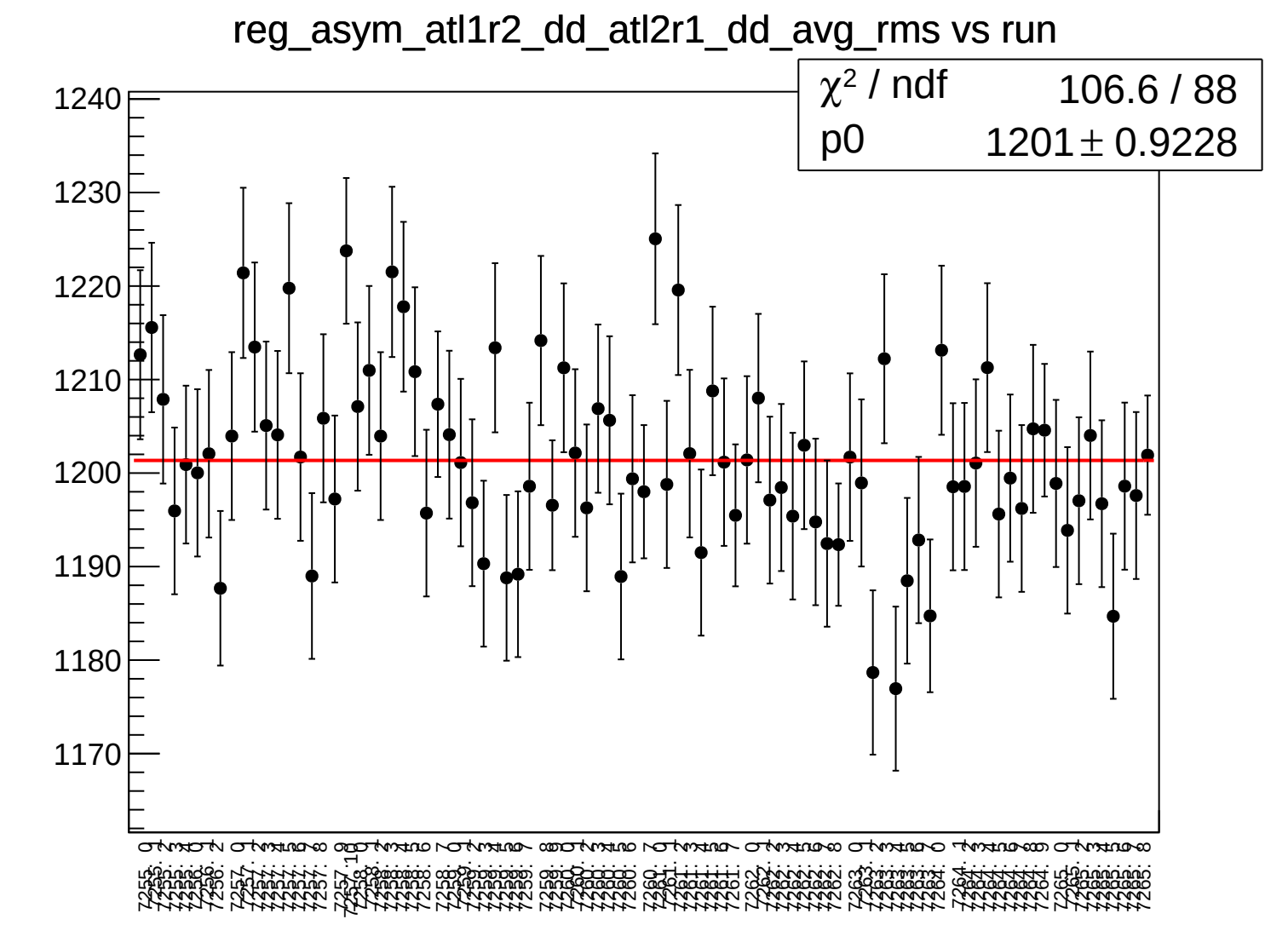

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.977e+04 / 88
p0 243.4 ± 0.191
450
400
350
300
250
200
150

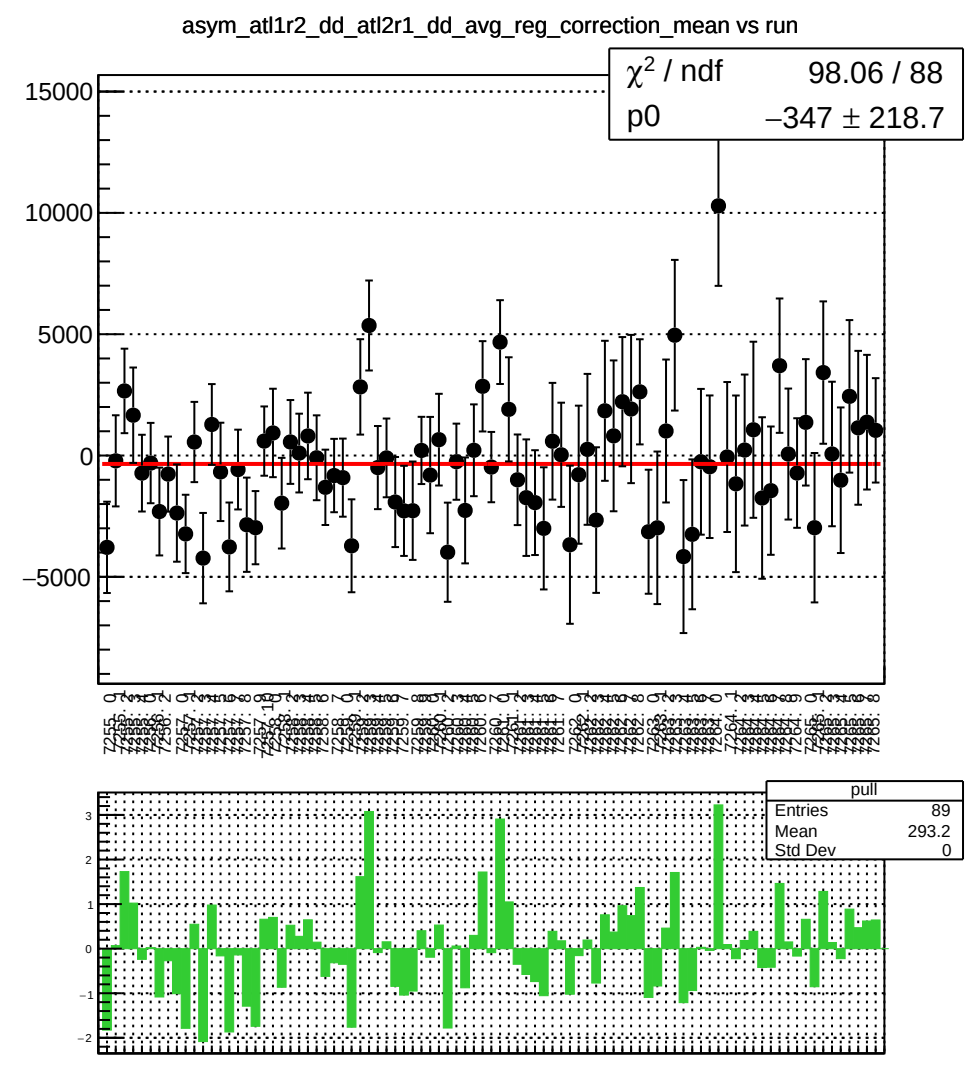

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.27 / 88
p0 −6.449e−15 ± 6.443e−14
pull
Entries 89
Mean 12.96
Std Dev 0
pull1D
Entries 89
Mean −0.03709
Std Dev 0.8814

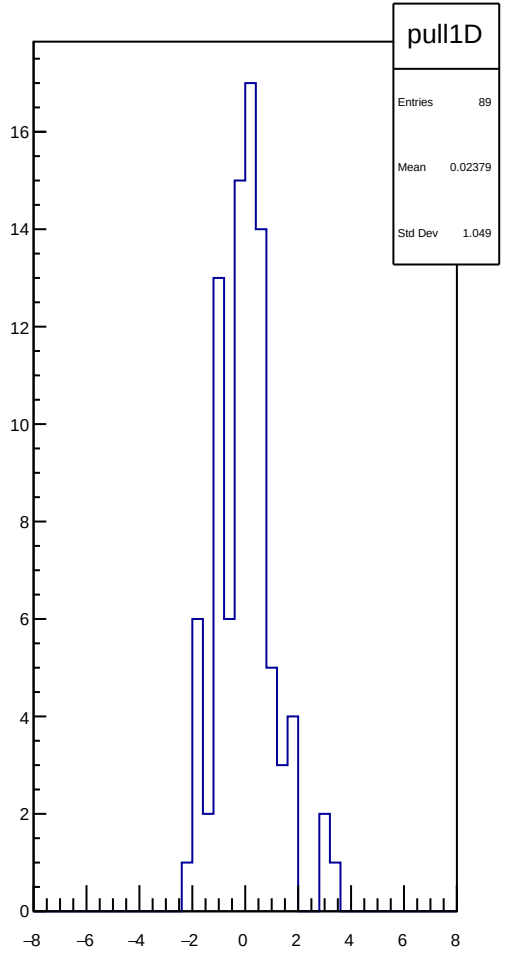

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 4.957e+05 / 88
p0 4.989e−11 ± 4.556e−14

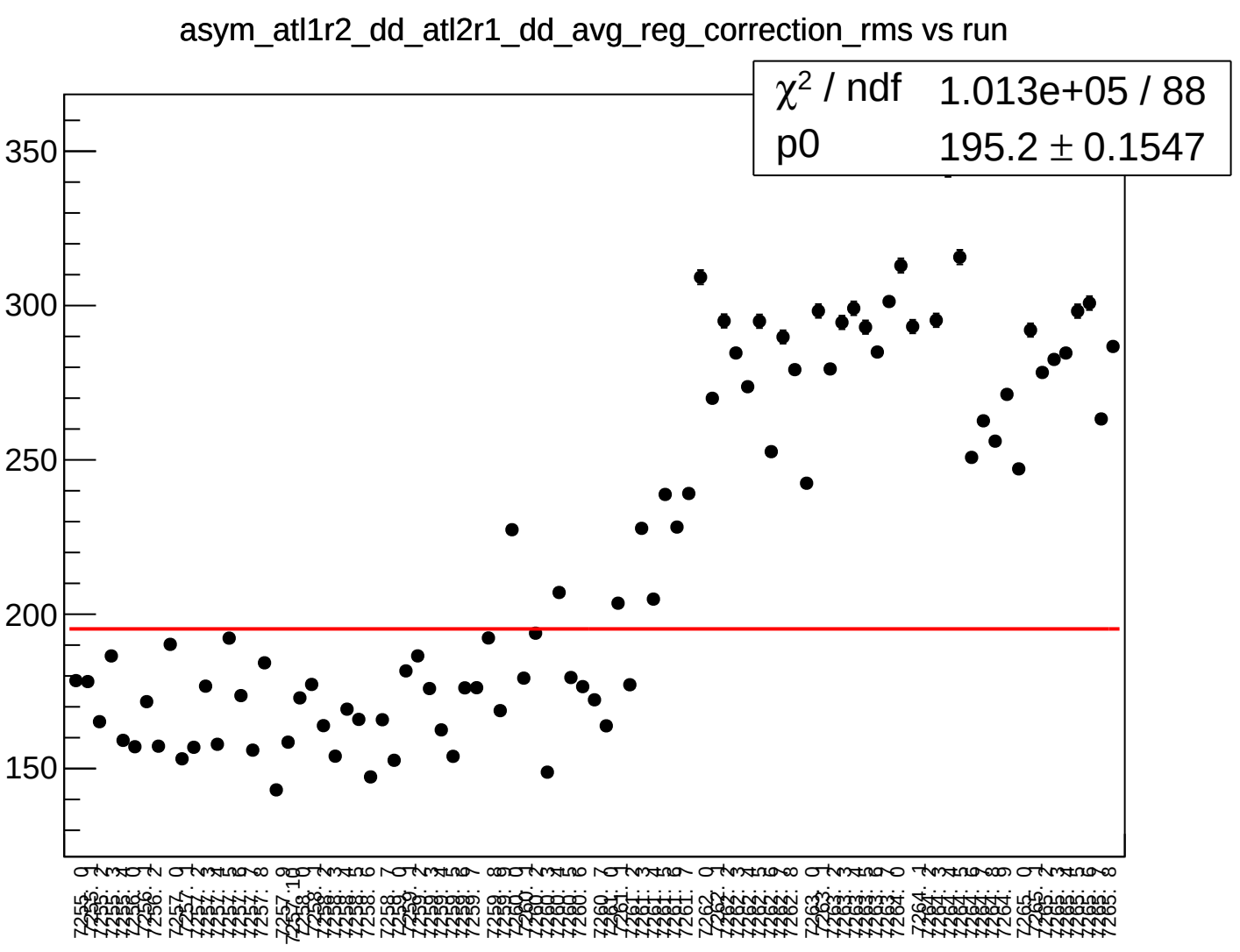

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 71.84 / 88
p0 314.7 ± 1305
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −51.42
Std Dev 0
2
1
0
−1
−2

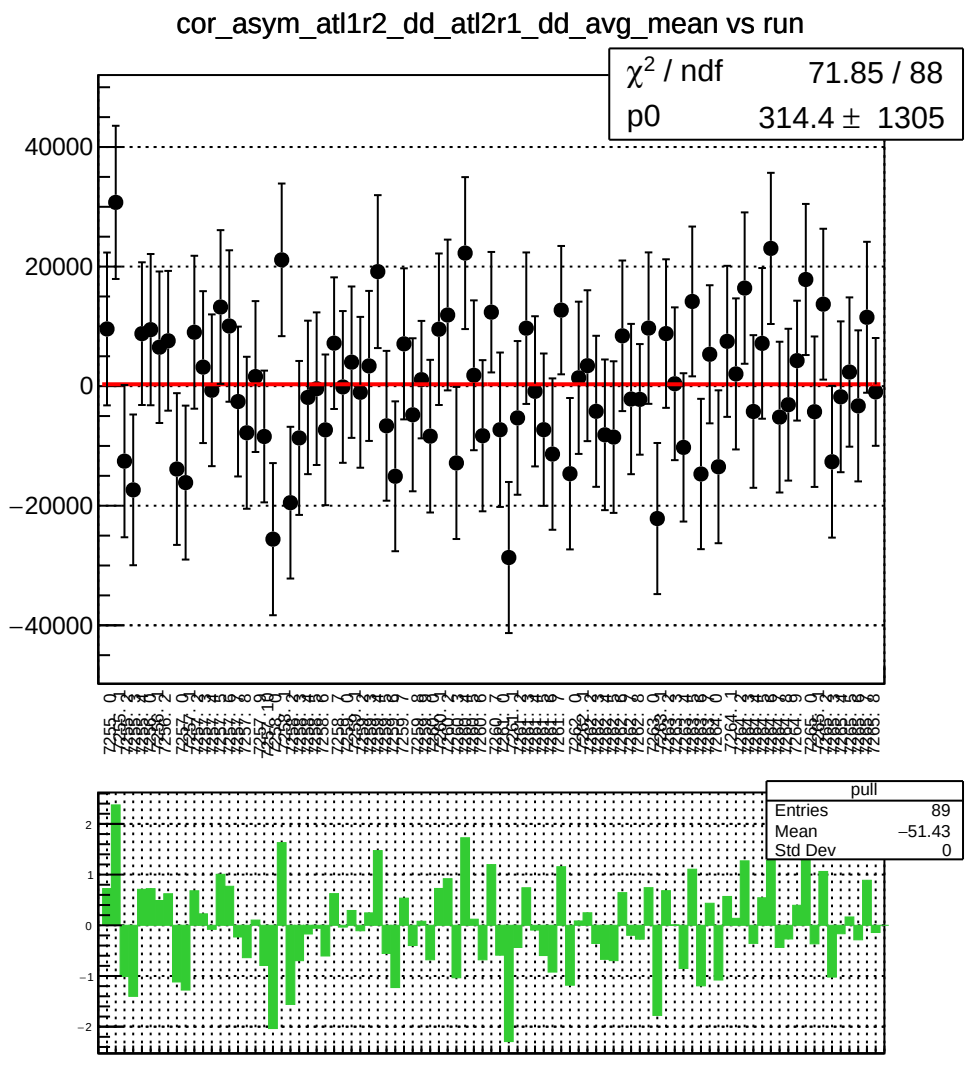

pull1D
Entries 89
Mean −0.006687
Std Dev 0.8984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

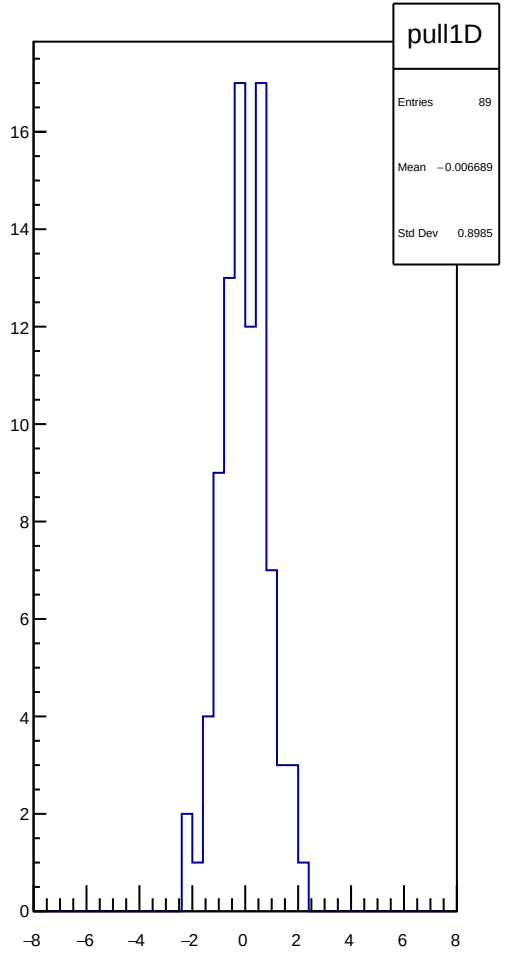

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 106.6 / 88
p0 1201 ± 0.9228
1240
1230
1220
1210
1200
1190
1180
1170

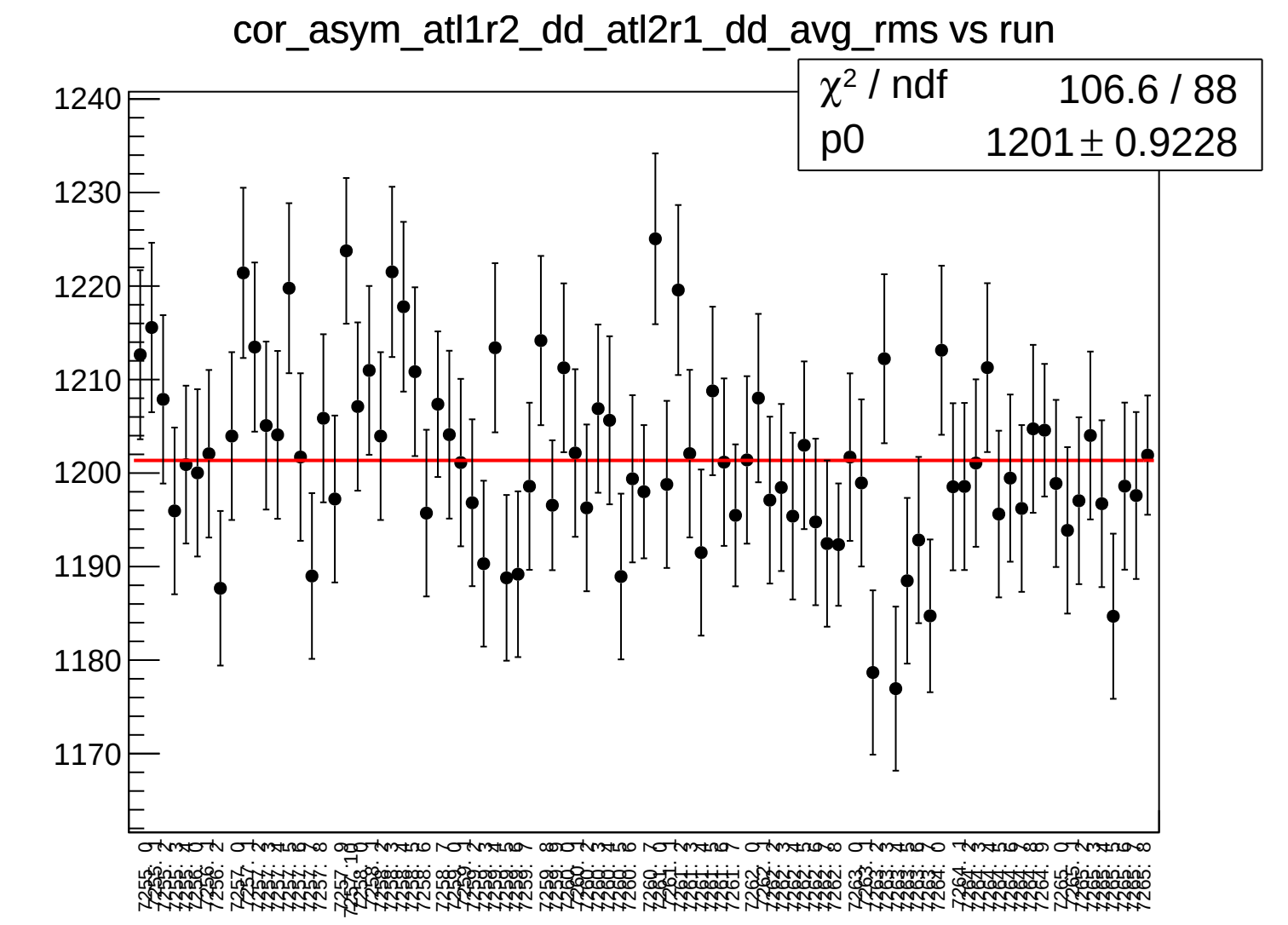

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 98.06 / 88
p0 −347 ± 218.7
15000
10000
5000
0
−5000
pull
Entries 89
Mean 293.2
Std Dev 0
3
2
1
0
−1
−2

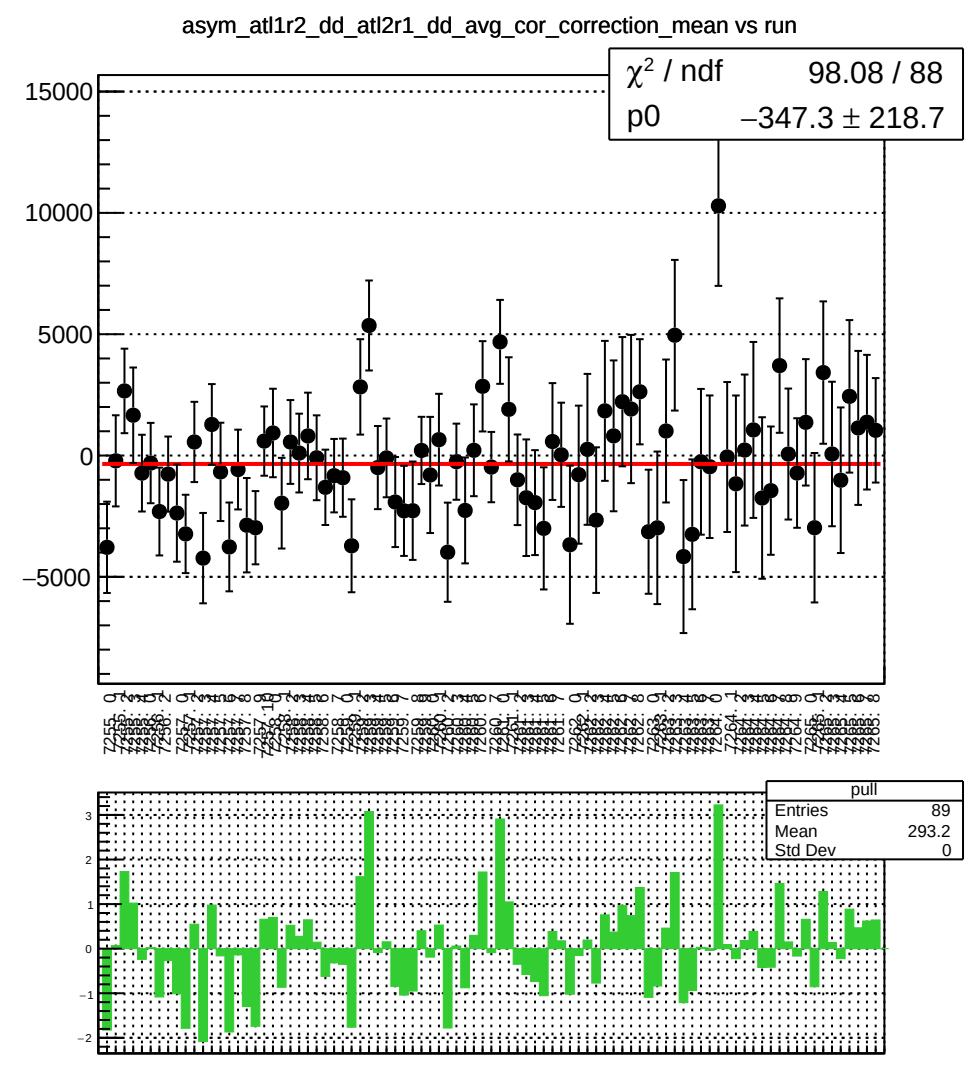

pull1D
Entries 89
Mean 0.02379
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

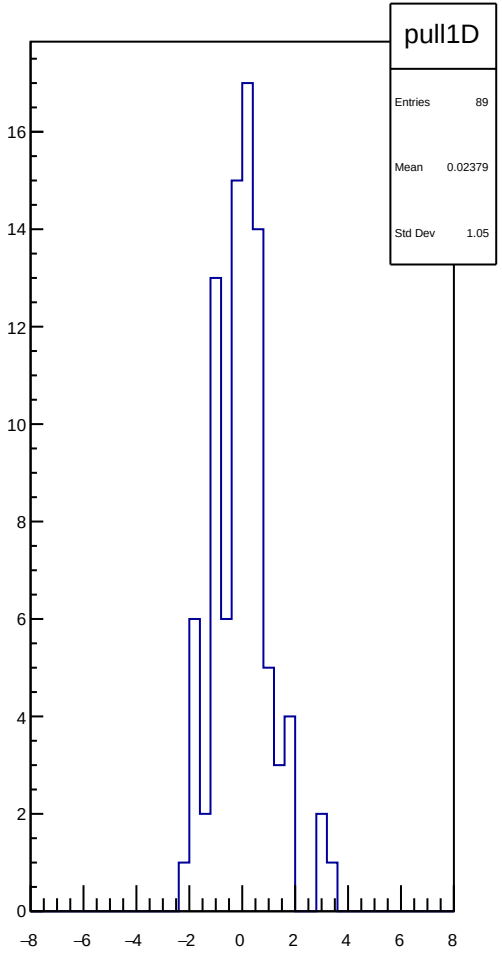

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.013e+05 / 88
p0 195.2 ± 0.1547
350
300
250
200
150

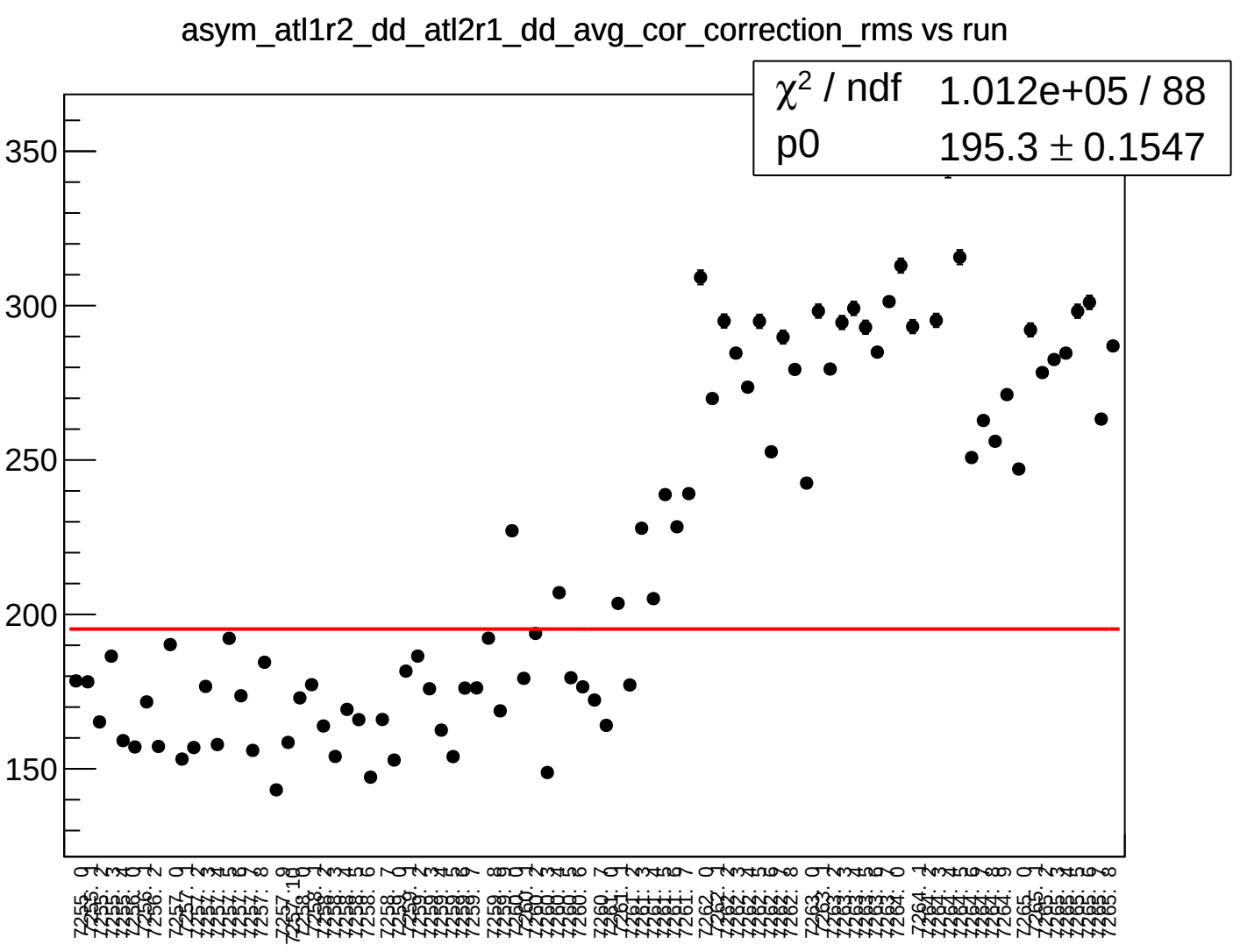

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 71.85 / 88
p0 314.4 ± 1305
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −51.43
Std Dev 0
2
1
0
−1
−2

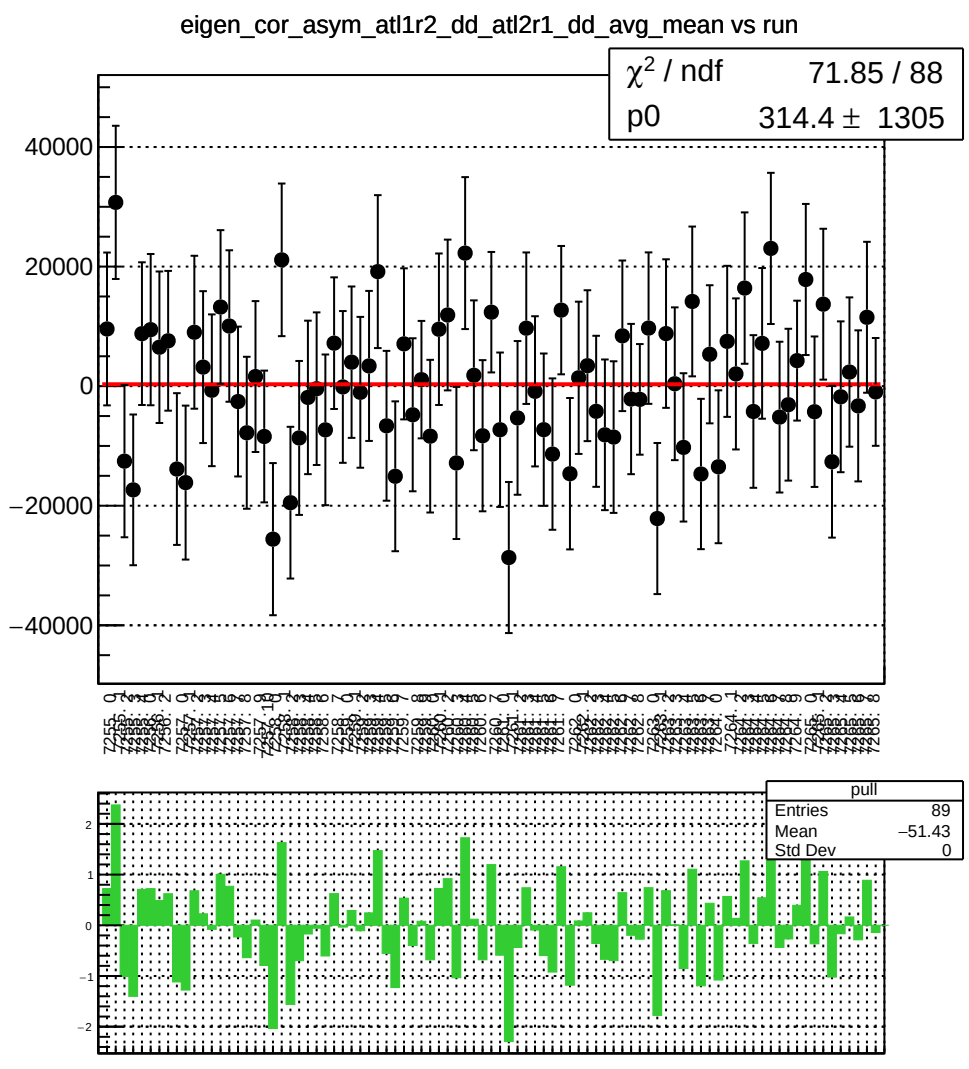

pull1D
Entries 89
Mean −0.006689
Std Dev 0.8985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

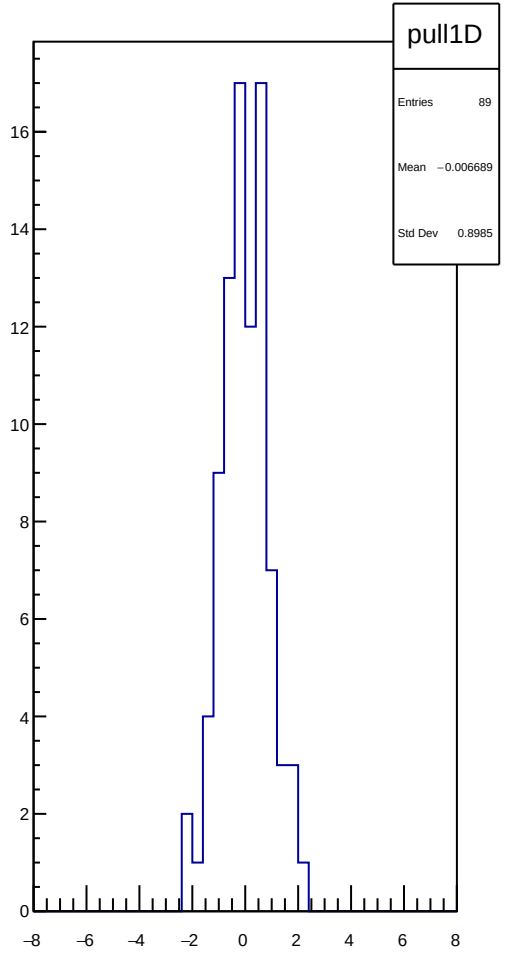

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 106.6 / 88
p0 1201 ± 0.9228
1240
1230
1220
1210
1200
1190
1180
1170

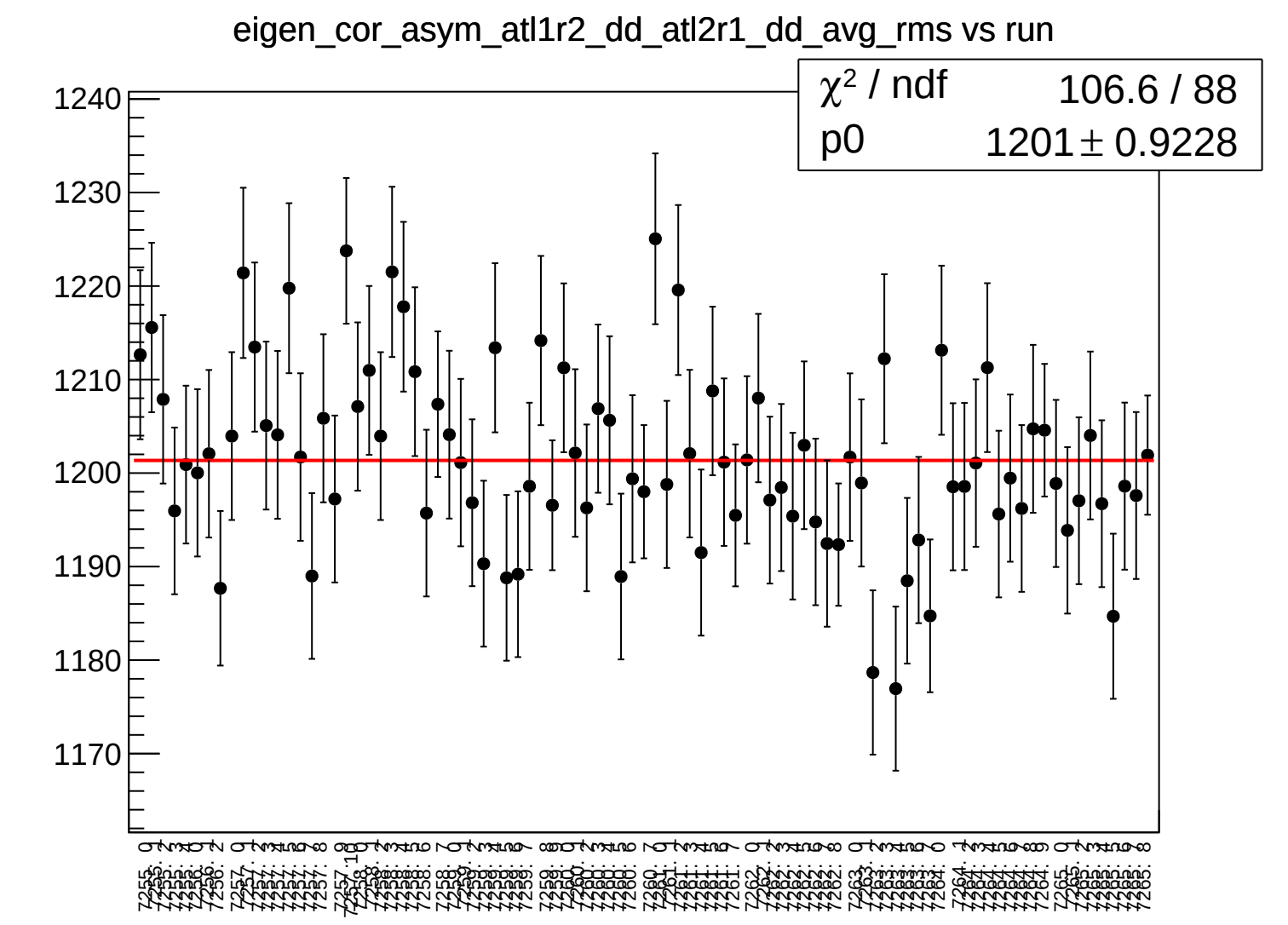

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 98.08 / 88
p0 −347.3 ± 218.7
15000
10000
5000
0
−5000
pull
Entries 89
Mean 293.2
Std Dev 0
3
2
1
0
−1
−2

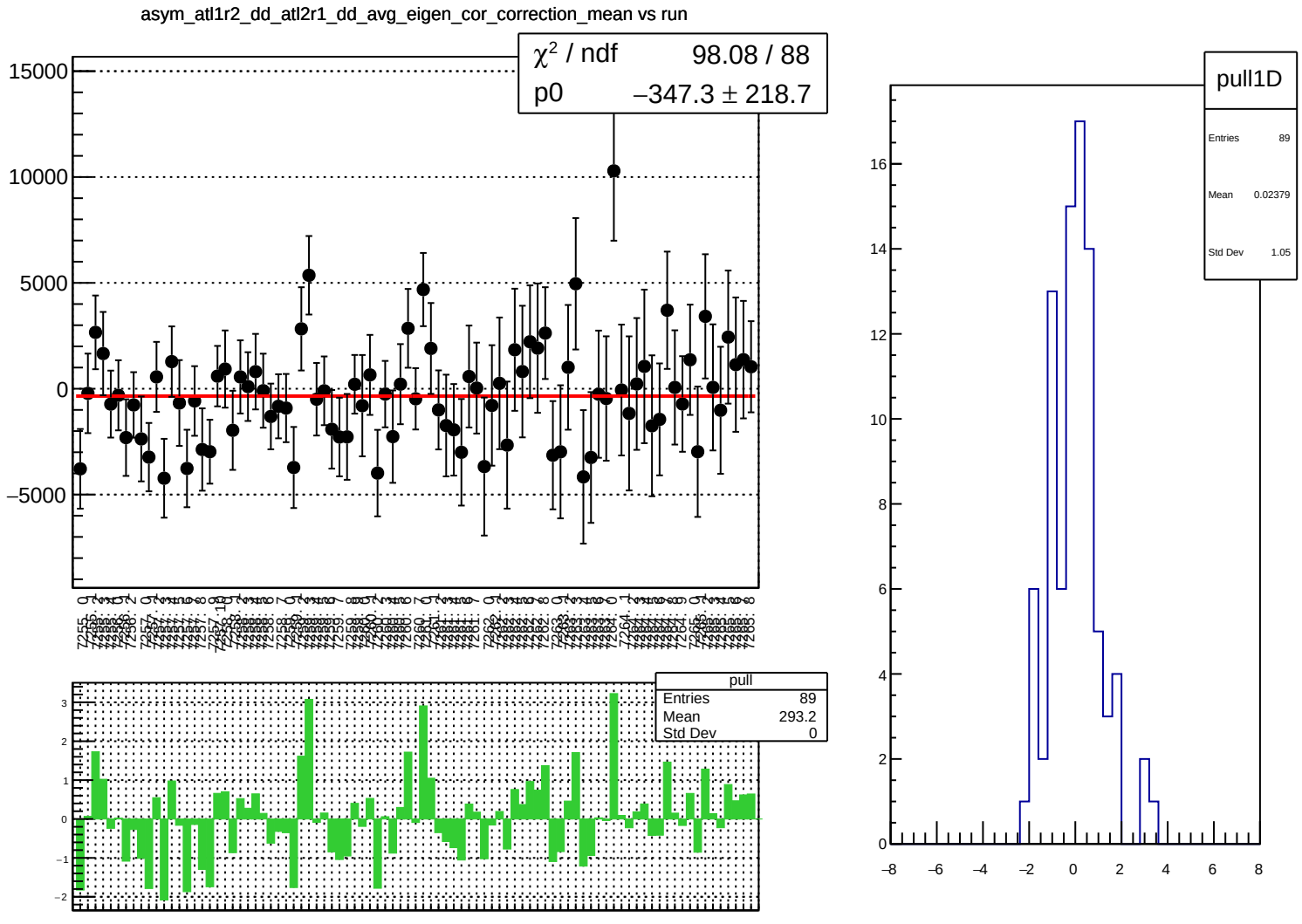

pull1D
Entries 89
Mean 0.02379
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

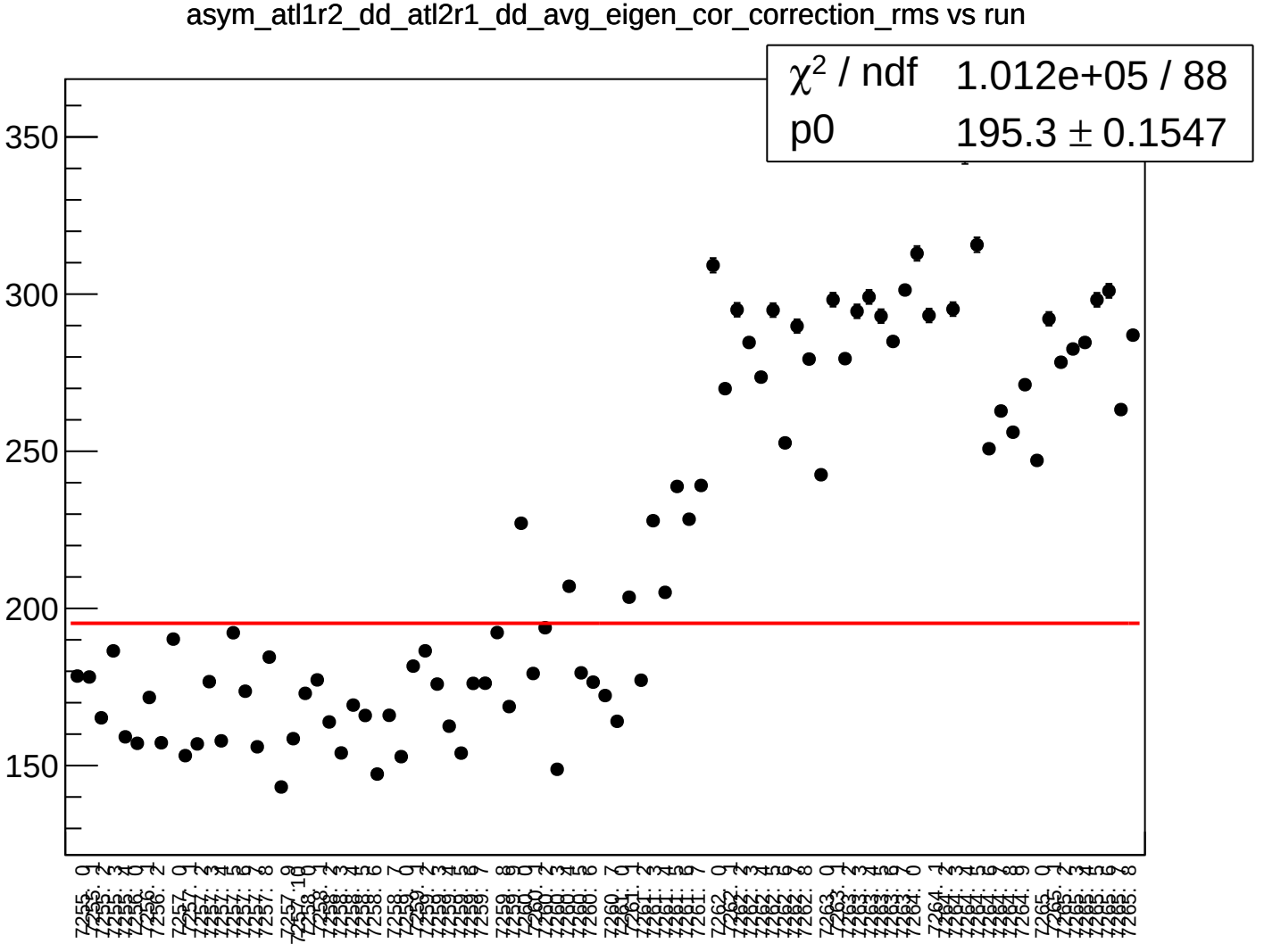

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1.012e+05 / 88
p0 195.3 ± 0.1547
350
300
250
200
150

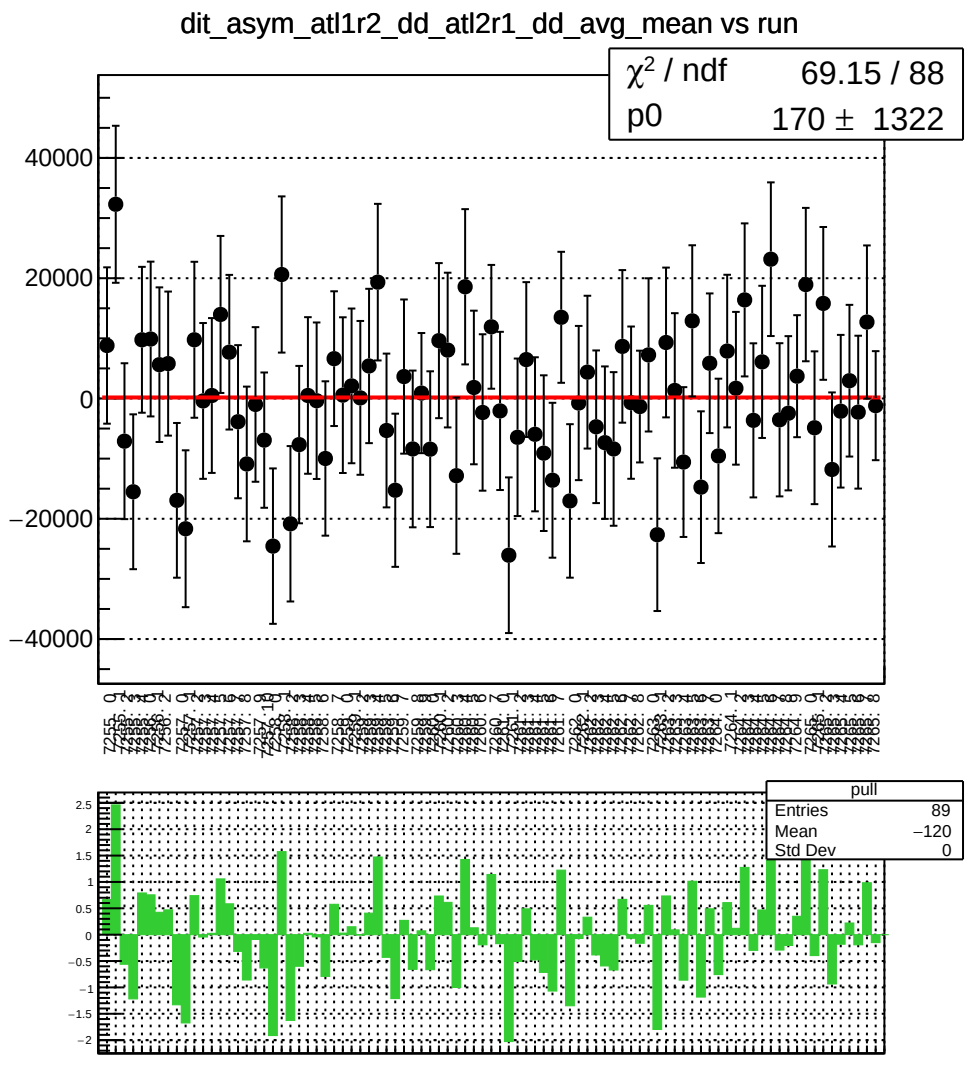

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 71.85 / 88
p0 314.4 ± 1305
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −51.43
Std Dev 0
2
1
0
−1
−2

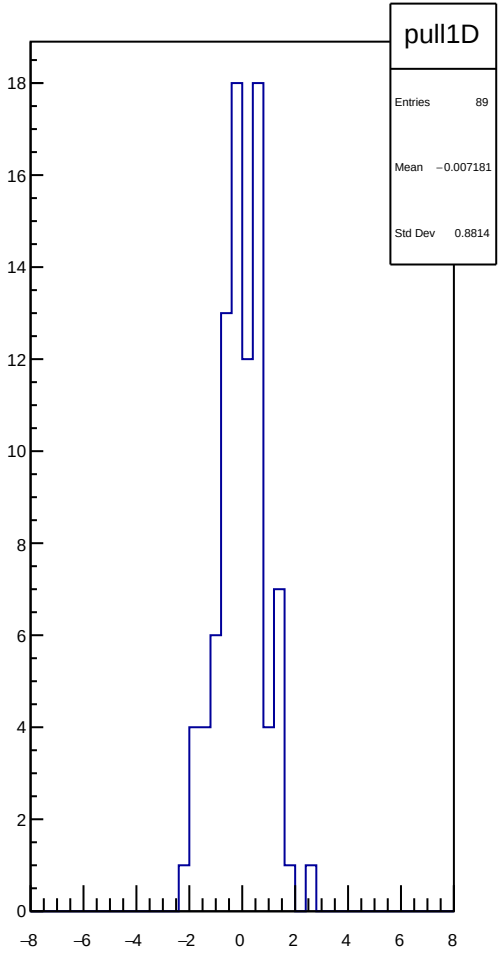

pull1D
Entries 89
Mean −0.006689
Std Dev 0.8985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

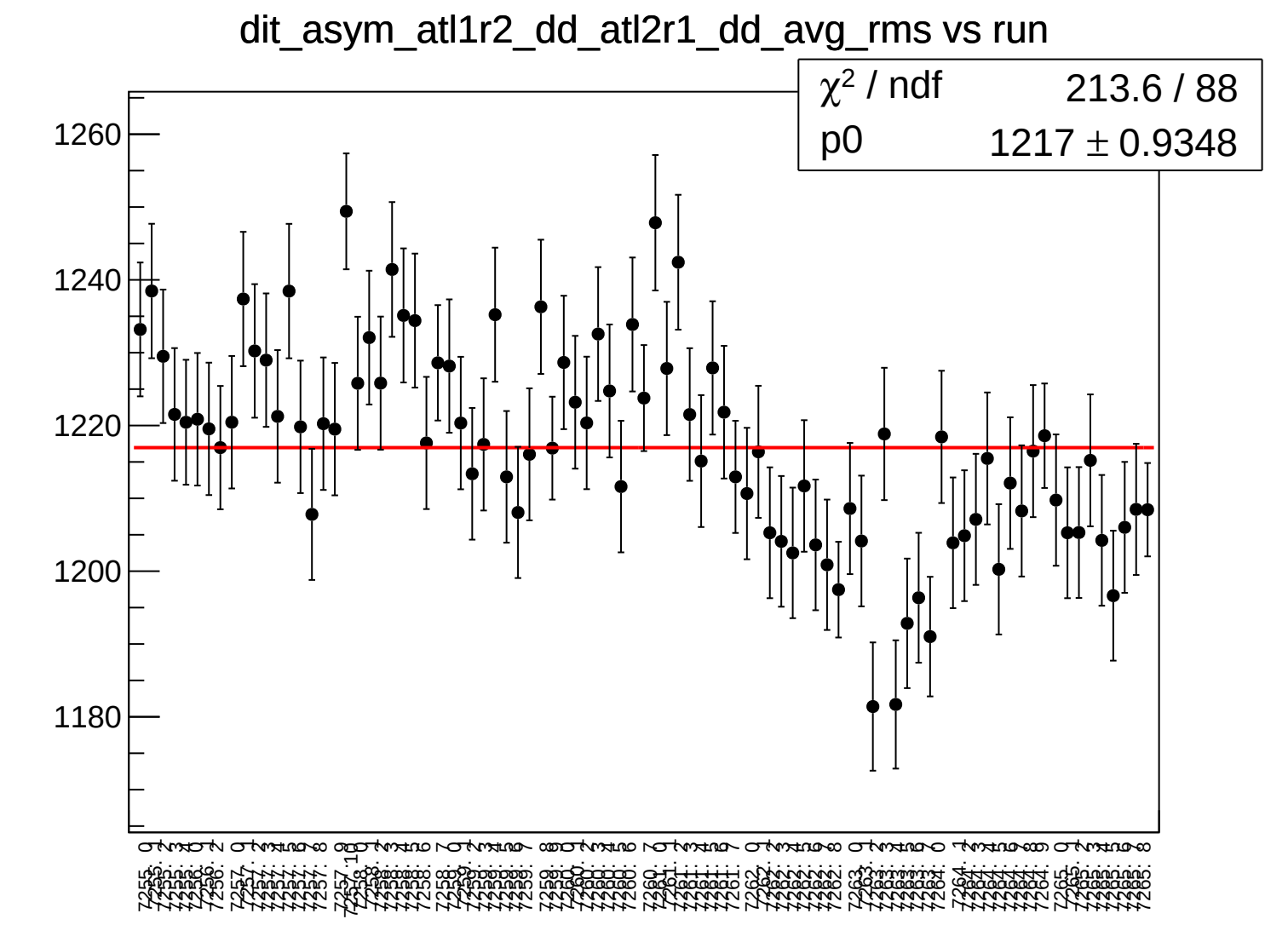

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 106.6 / 88
p0 1201 ± 0.9228
1240
1230
1220
1210
1200
1190
1180
1170

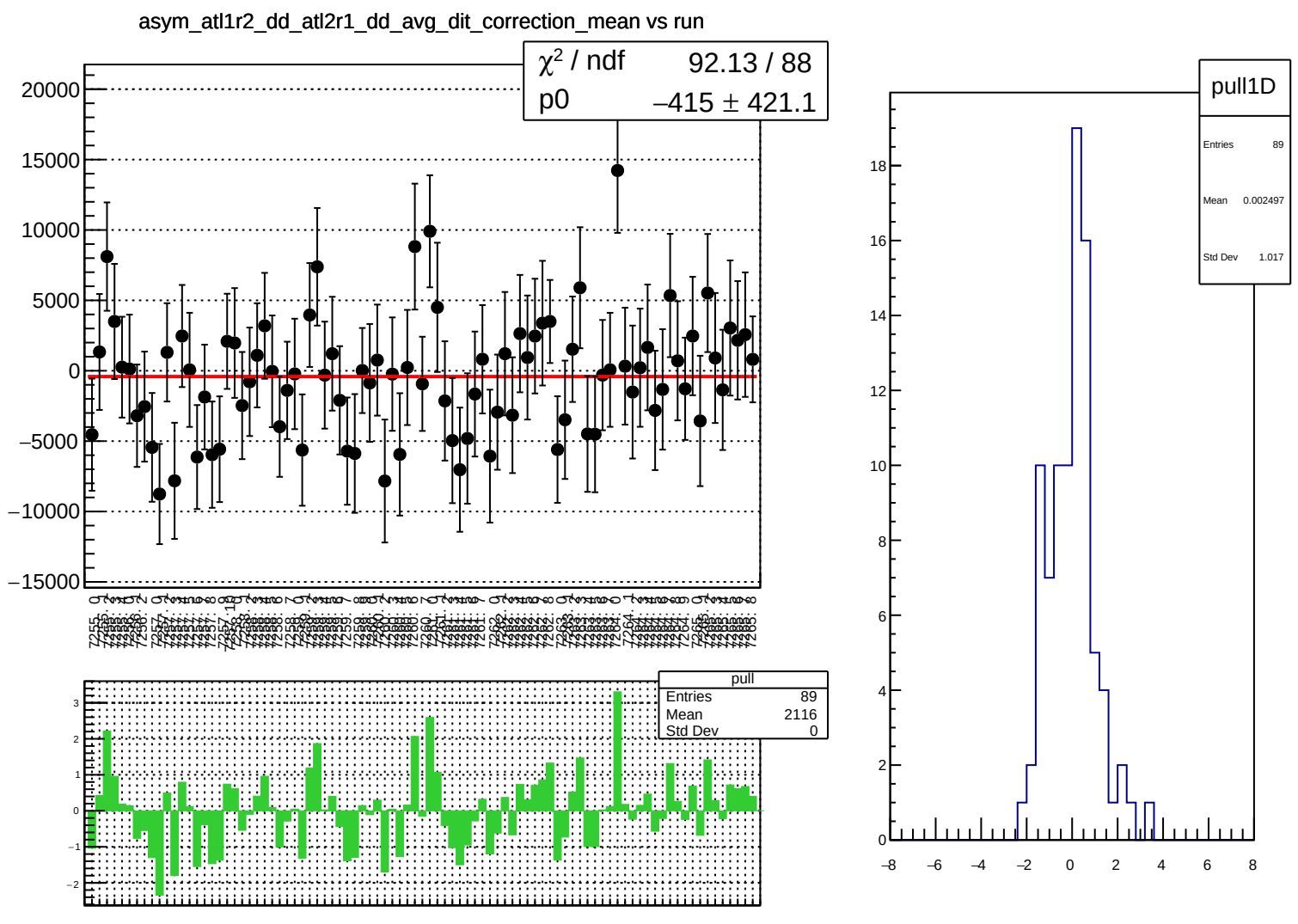

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 98.08 / 88
p0 −347.3 ± 218.7
15000
10000
5000
0
−5000
pull
Entries 89
Mean 293.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02379
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

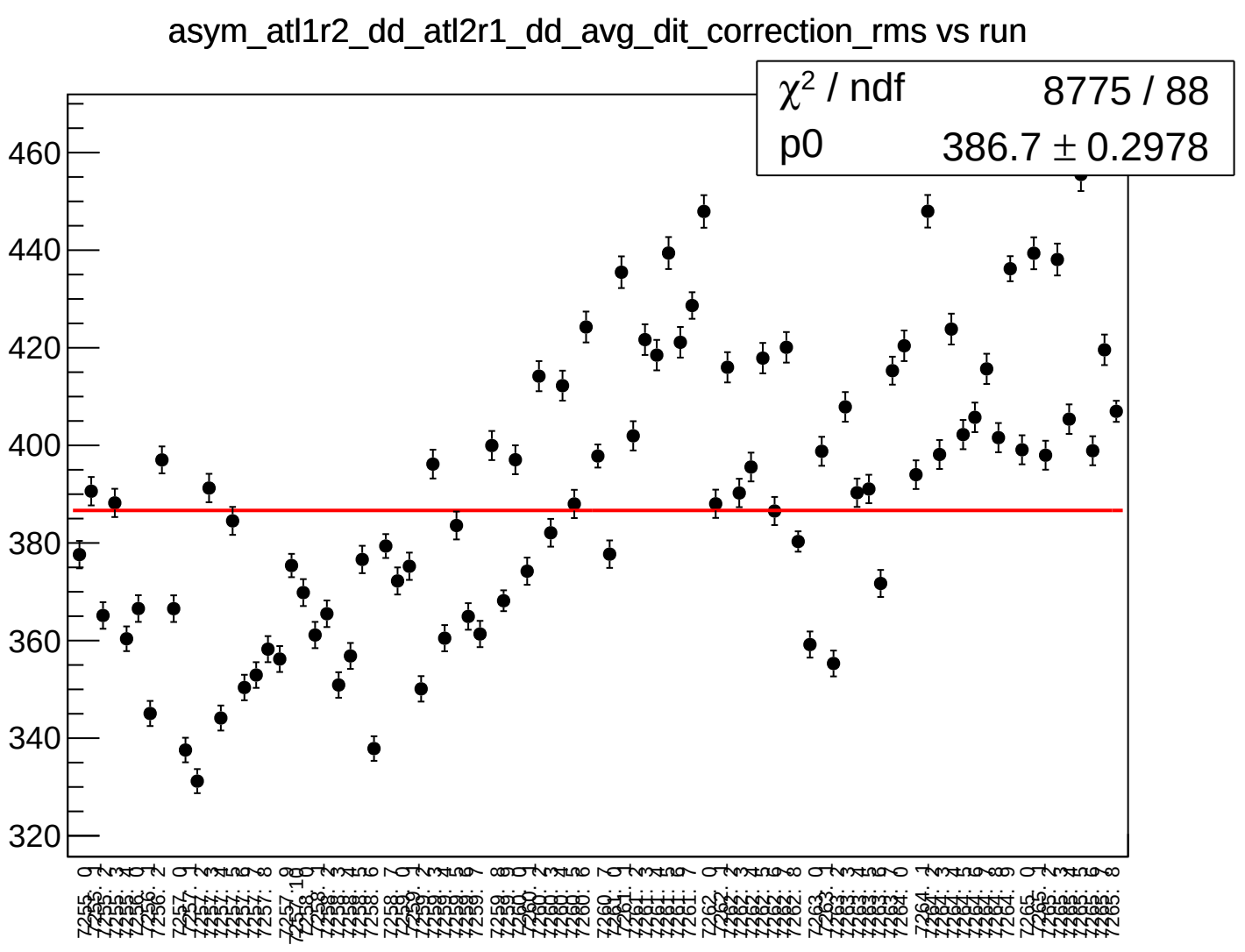

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.012e+05 / 88
p0 195.3 ± 0.1547
350
300
250
200
150

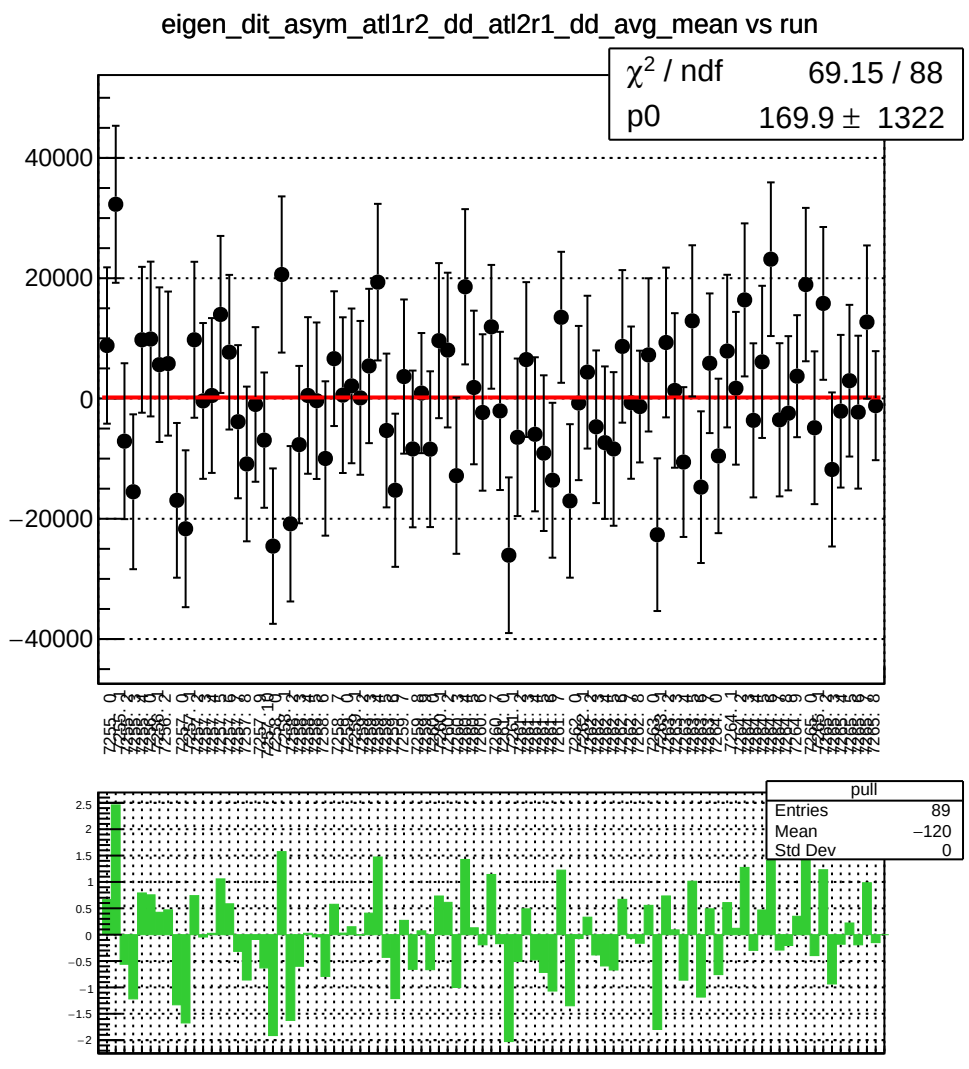

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 69.15 / 88
p0 170 ± 1322
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −120
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

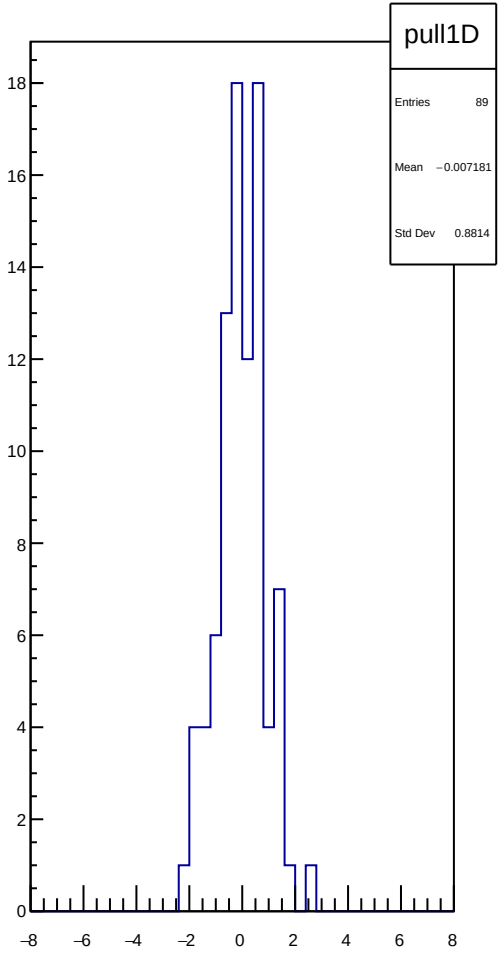

pull1D
Entries 89
Mean −0.007181
Std Dev 0.8814
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

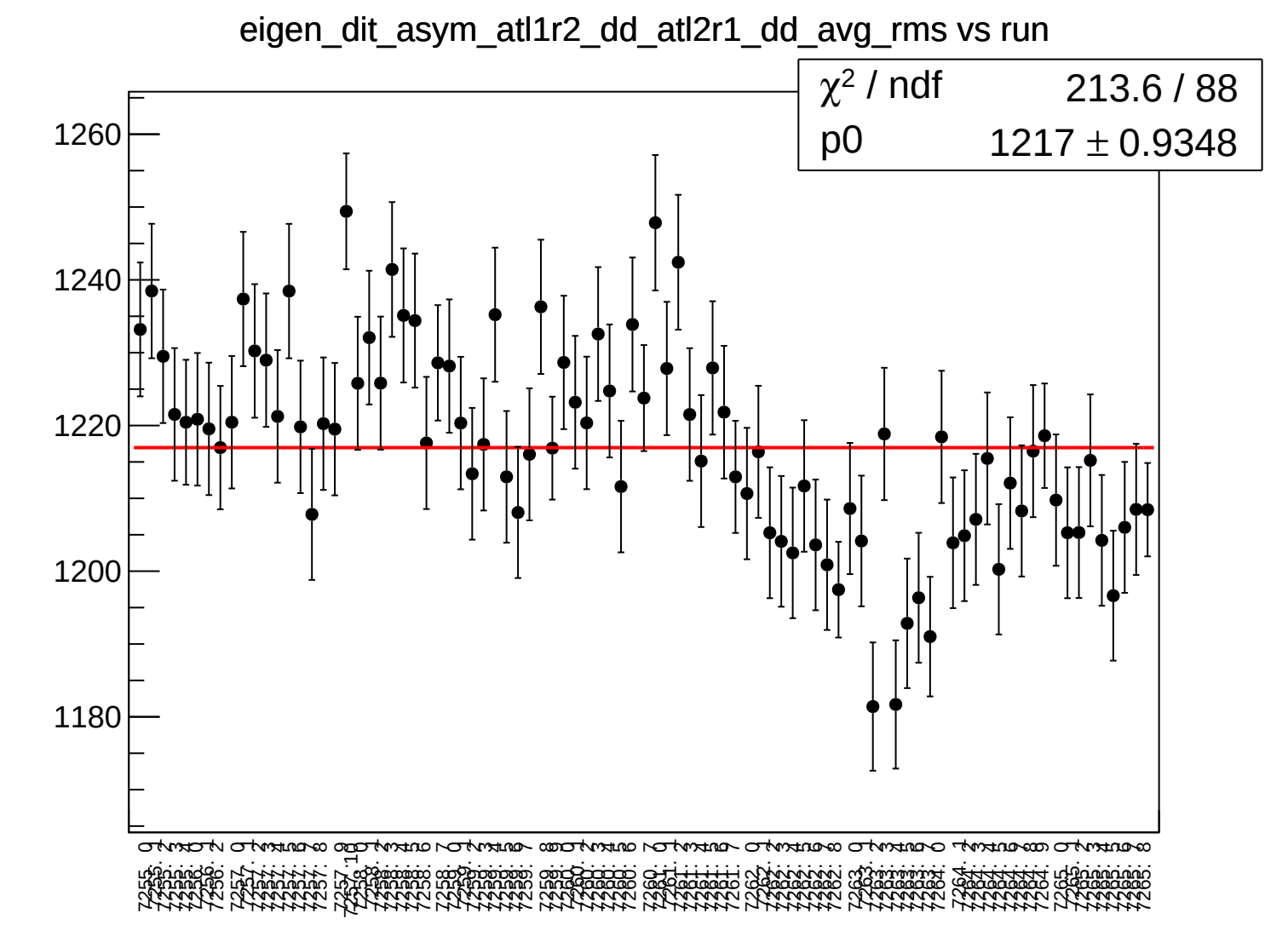

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 213.6 / 88
p0 1217 ± 0.9348
1260
1240
1220
1200
1180

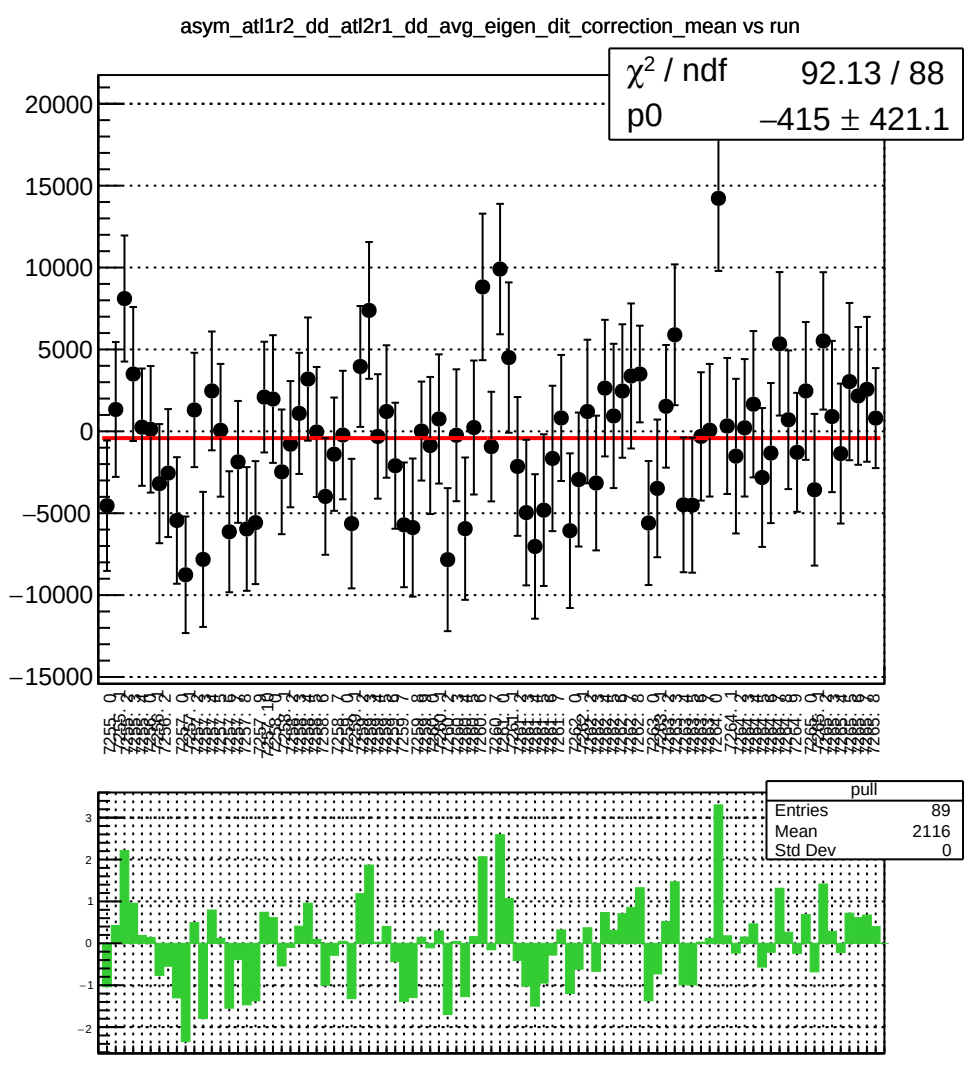

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 92.13 / 88
p0 −415 ± 421.1
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 2116
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.002497
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

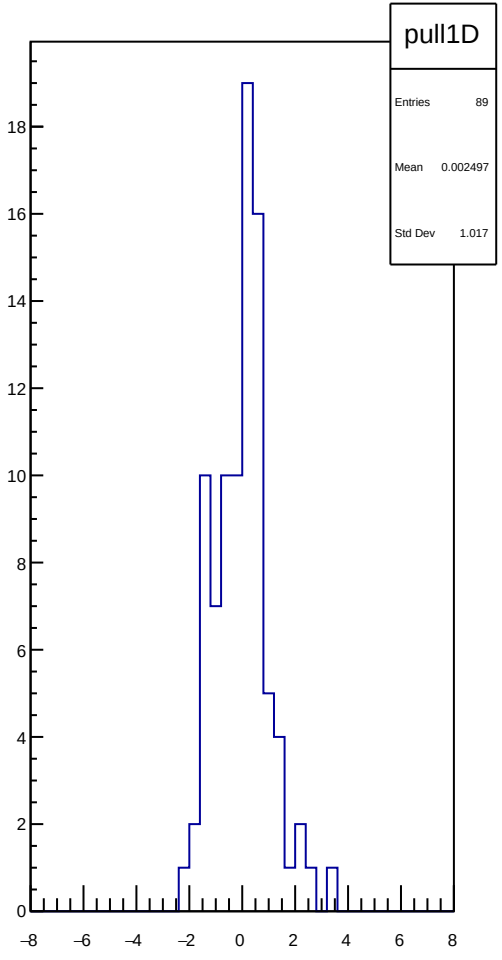

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 8775 / 88
p0 386.7 ± 0.2978
460
440
420
400
380
360
340
320

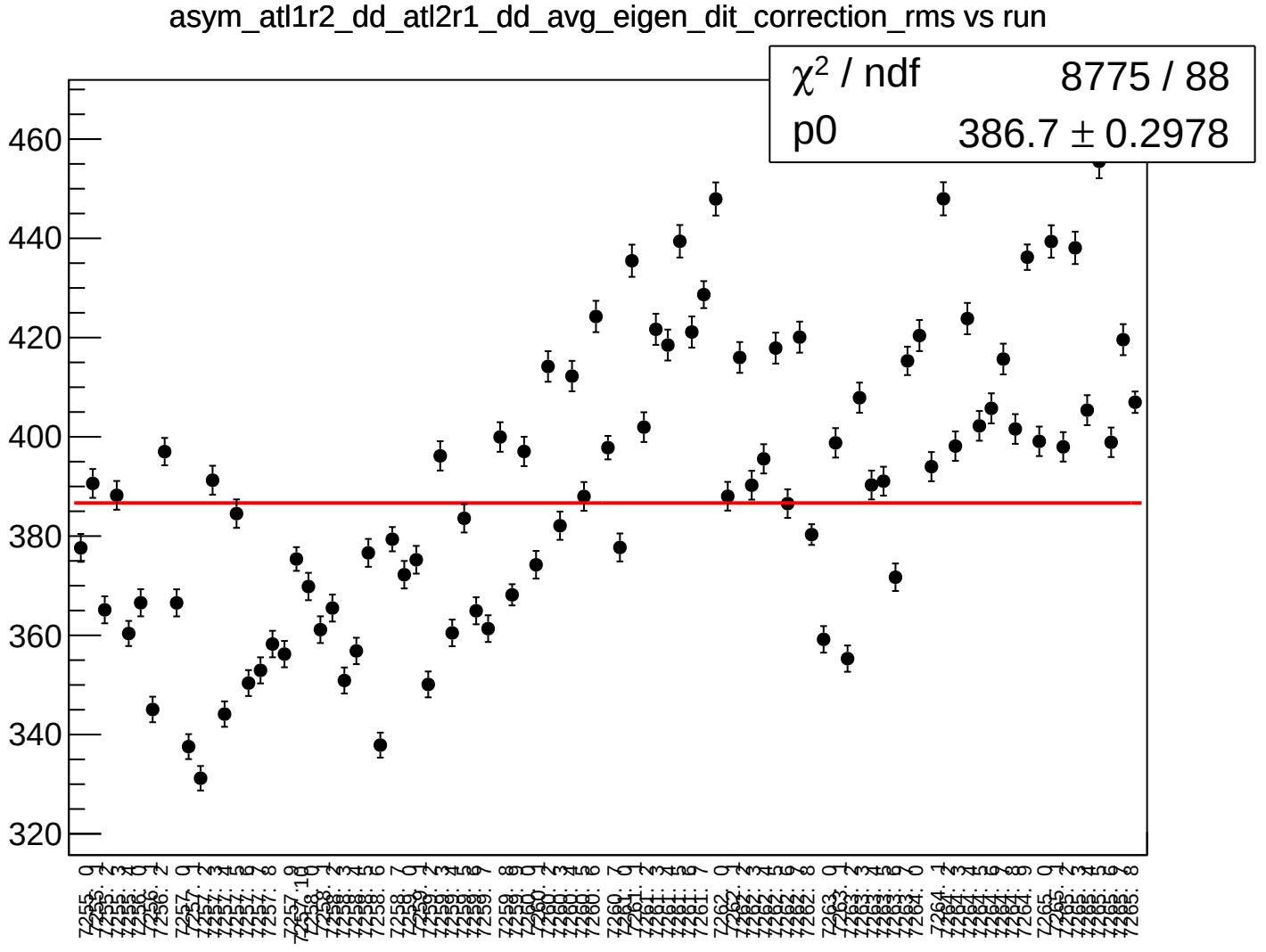

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 69.15 / 88
p0 169.9 ± 1322
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −120
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

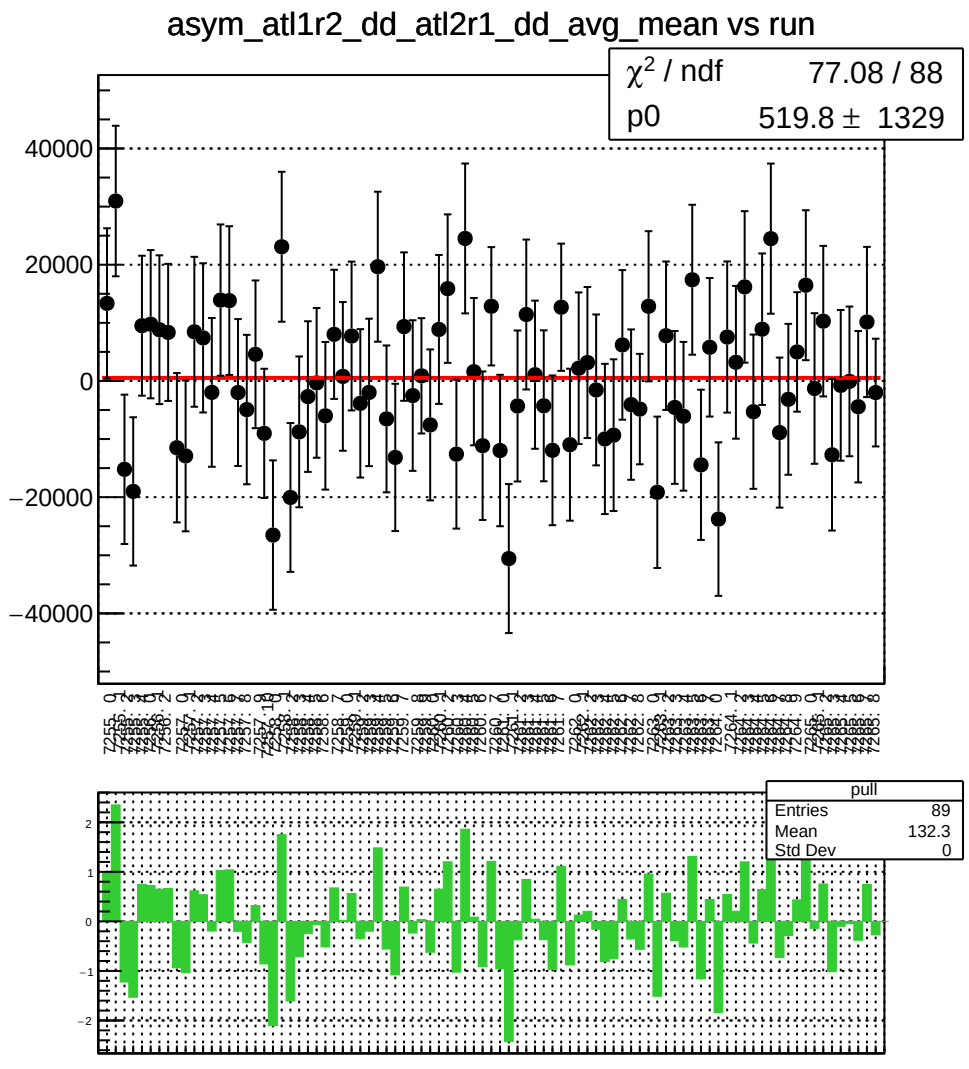

pull1D
Entries 89
Mean −0.007181
Std Dev 0.8814
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

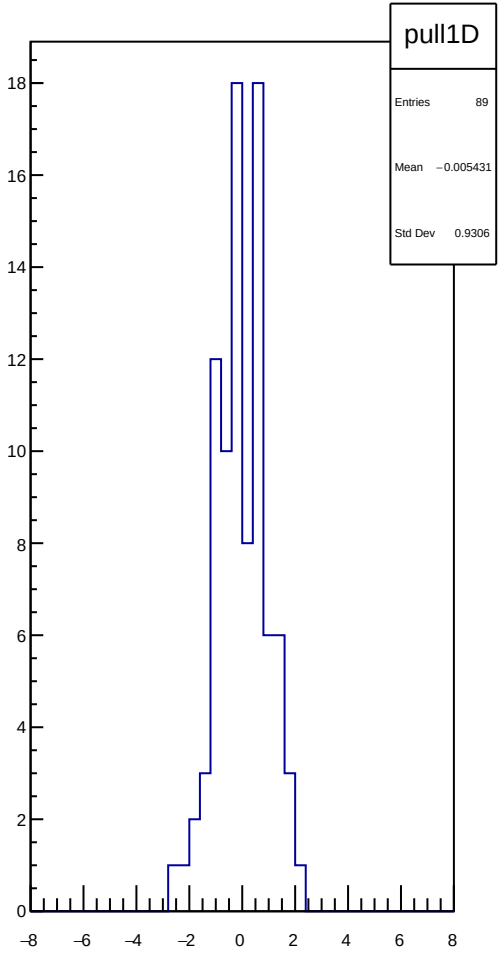

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 213.6 / 88
p0 1217 ± 0.9348
1260
1240
1220
1200
1180

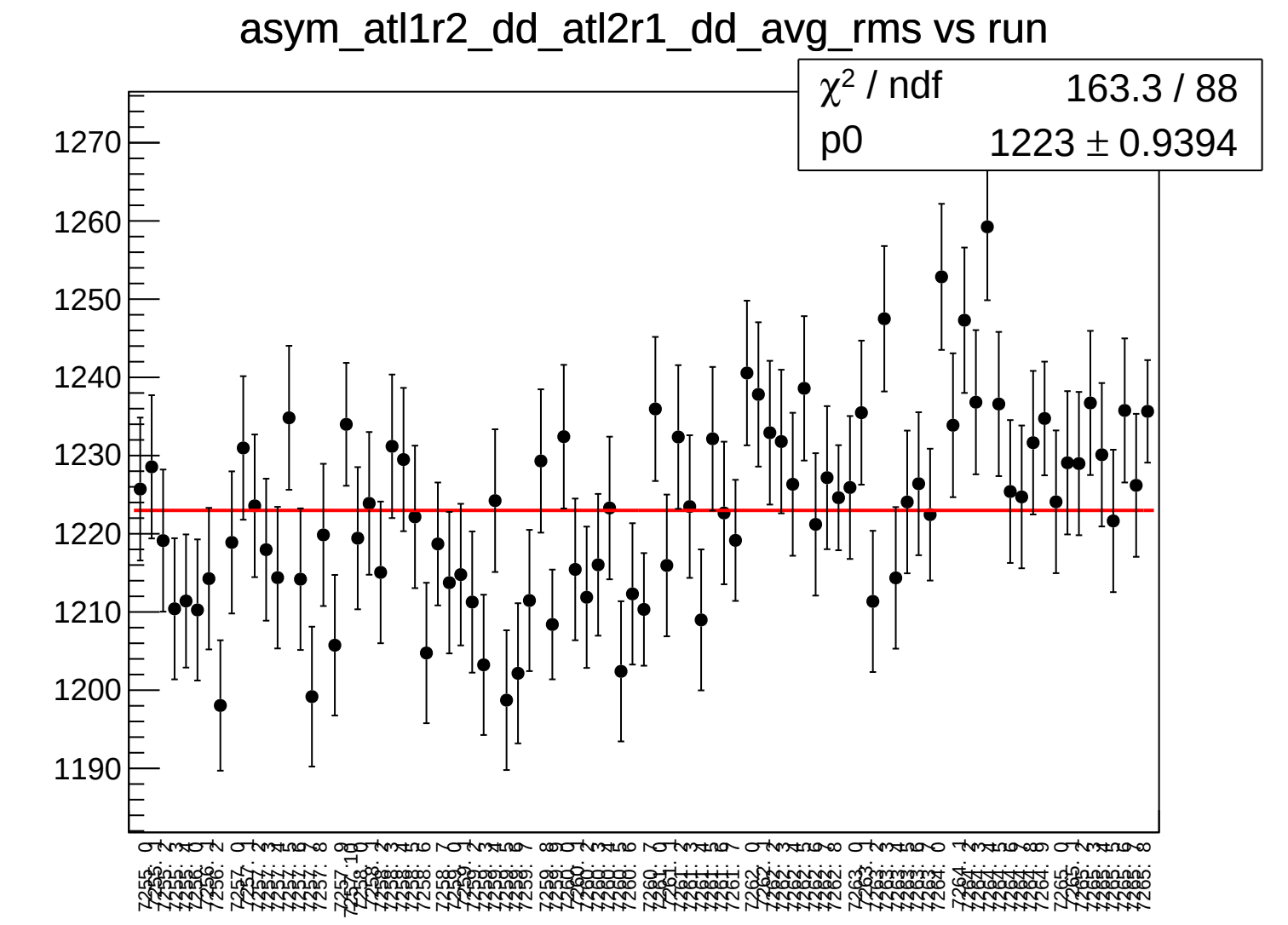

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 92.13 / 88
p0 −415 ± 421.1
pull
Entries 89
Mean 2116
Std Dev 0

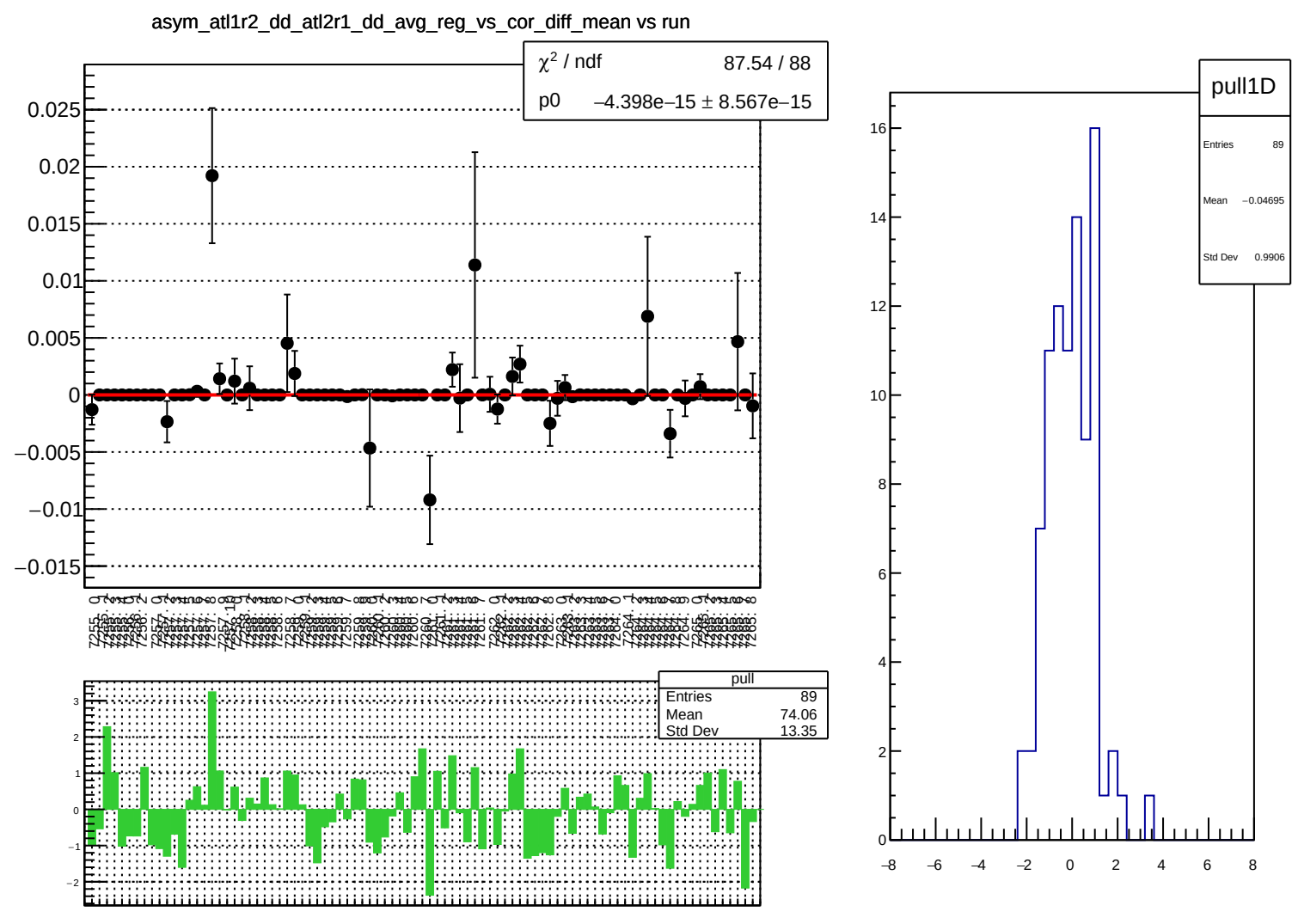

pull1D
Entries 89
Mean 0.002497
Std Dev 1.017

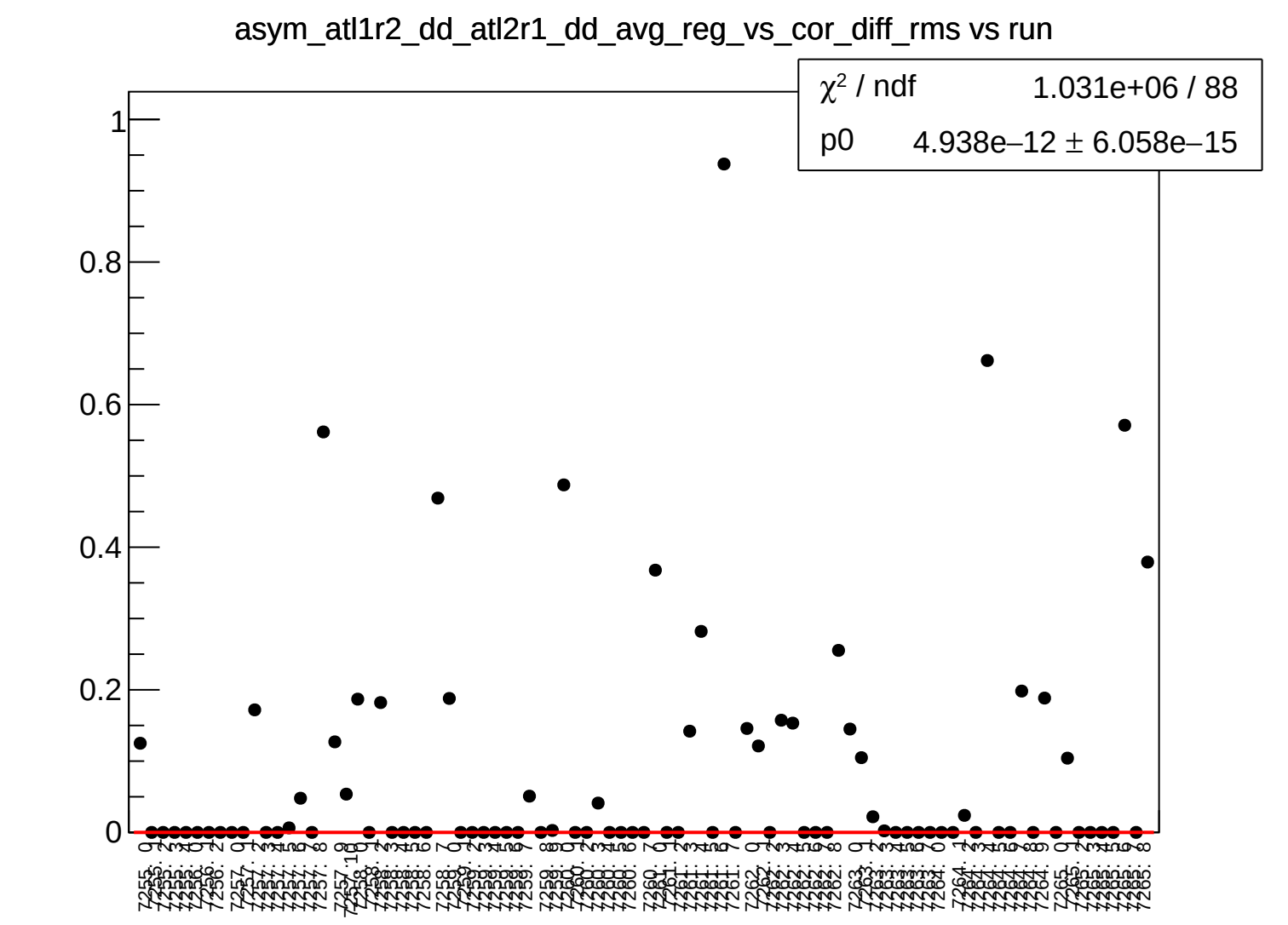

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 8775 / 88
p0 386.7 ± 0.2978
460
440
420
400
380
360
340
320

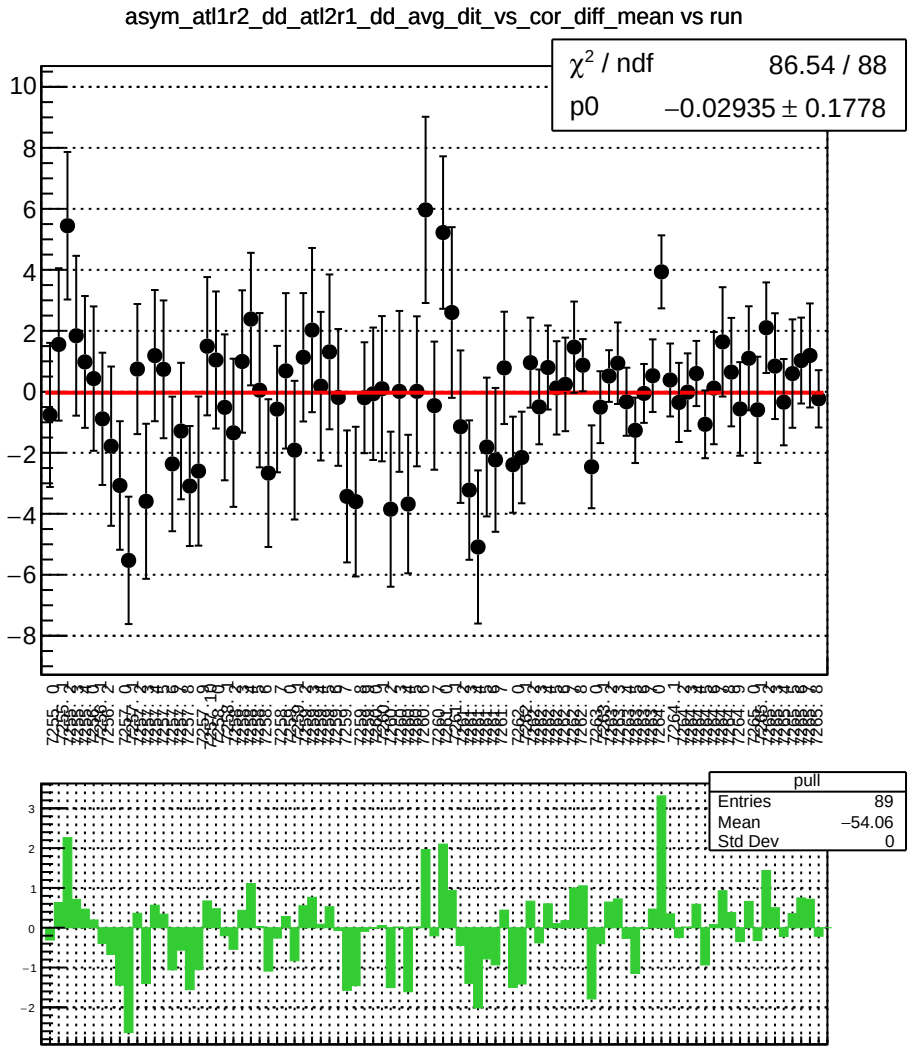

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 77.08 / 88
p0 519.8 ± 1329
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 132.3
Std Dev 0
2
1
0
−1
−2

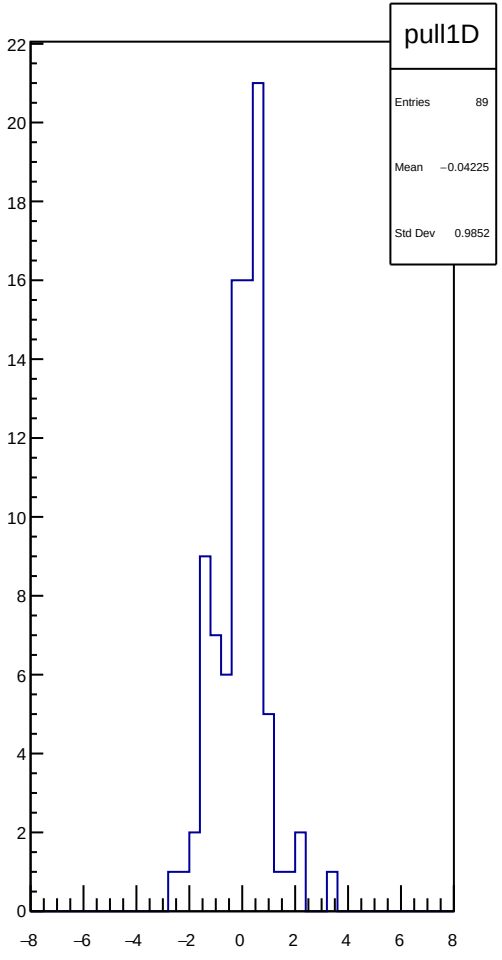

pull1D
Entries 89
Mean −0.005431
Std Dev 0.9306
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

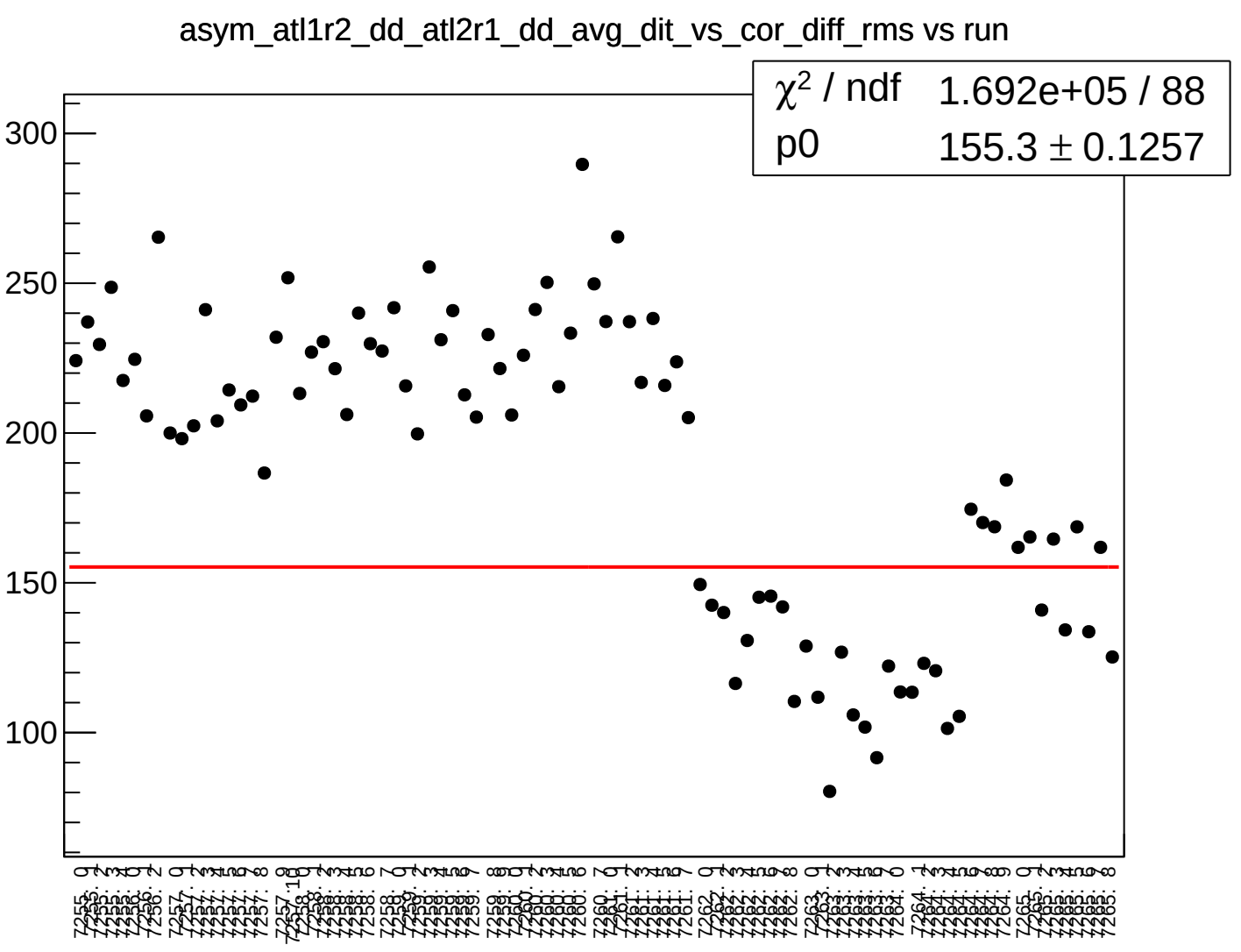

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 163.3 / 88
p0 1223 ± 0.9394
1270
1260
1250
1240
1230
1220
1210
1200
1190

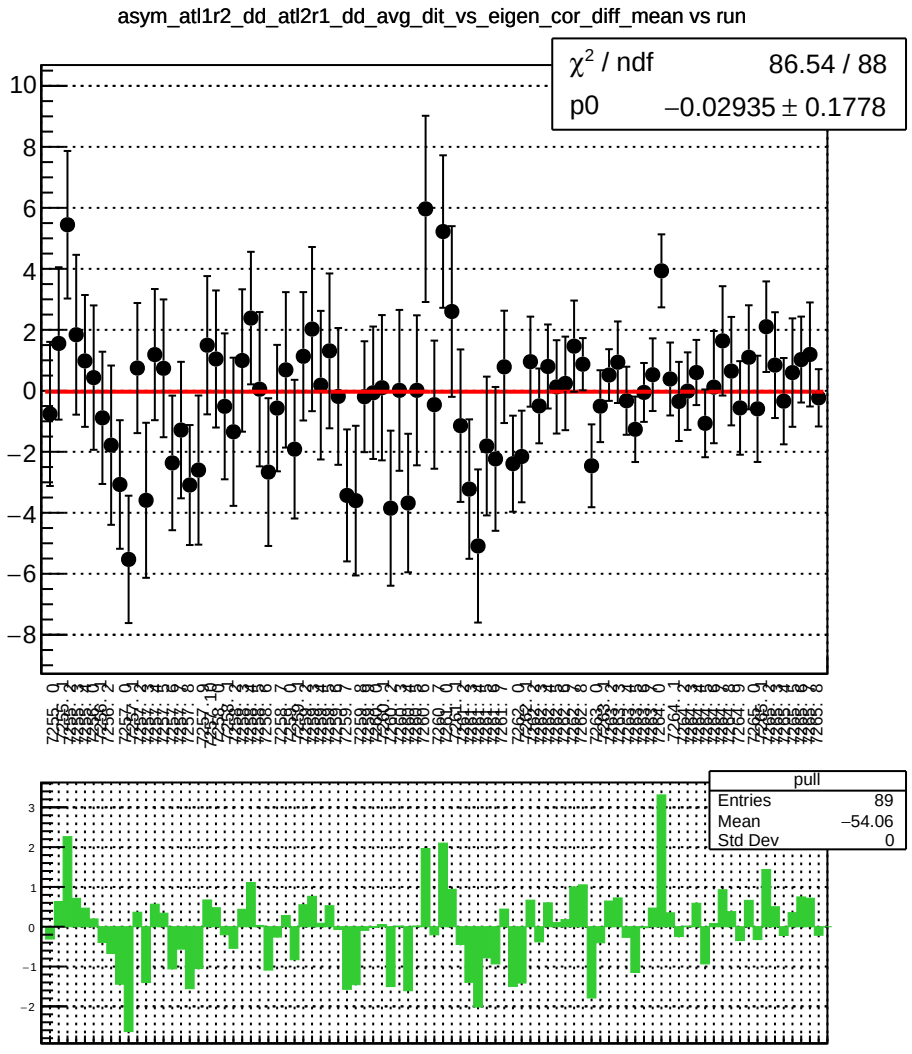

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.54 / 88
p0 −4.398e−15 ± 8.567e−15
pull
Entries 89
Mean 74.06
Std Dev 13.35
pull1D
Entries 89
Mean −0.04695
Std Dev 0.9906

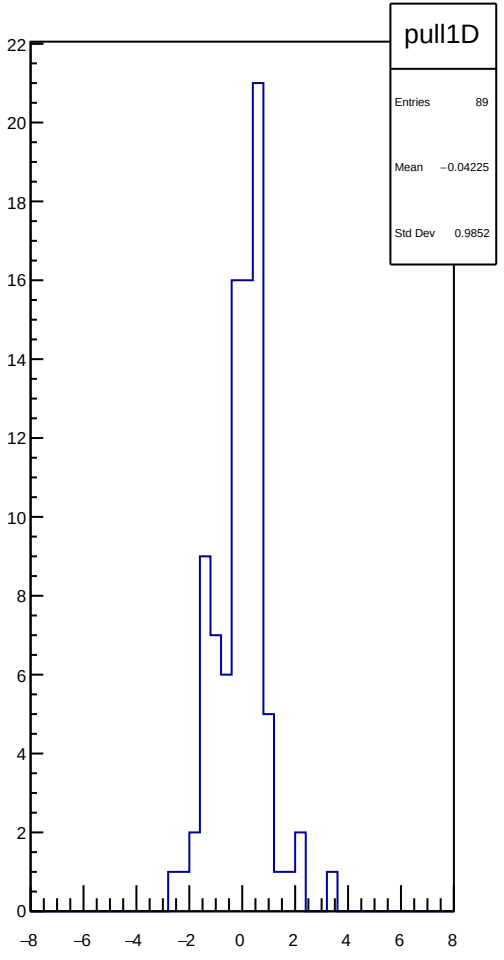

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.031e+06 / 88
p0 4.938e−12 ± 6.058e−15
1
0.8
0.6
0.4
0.2
0

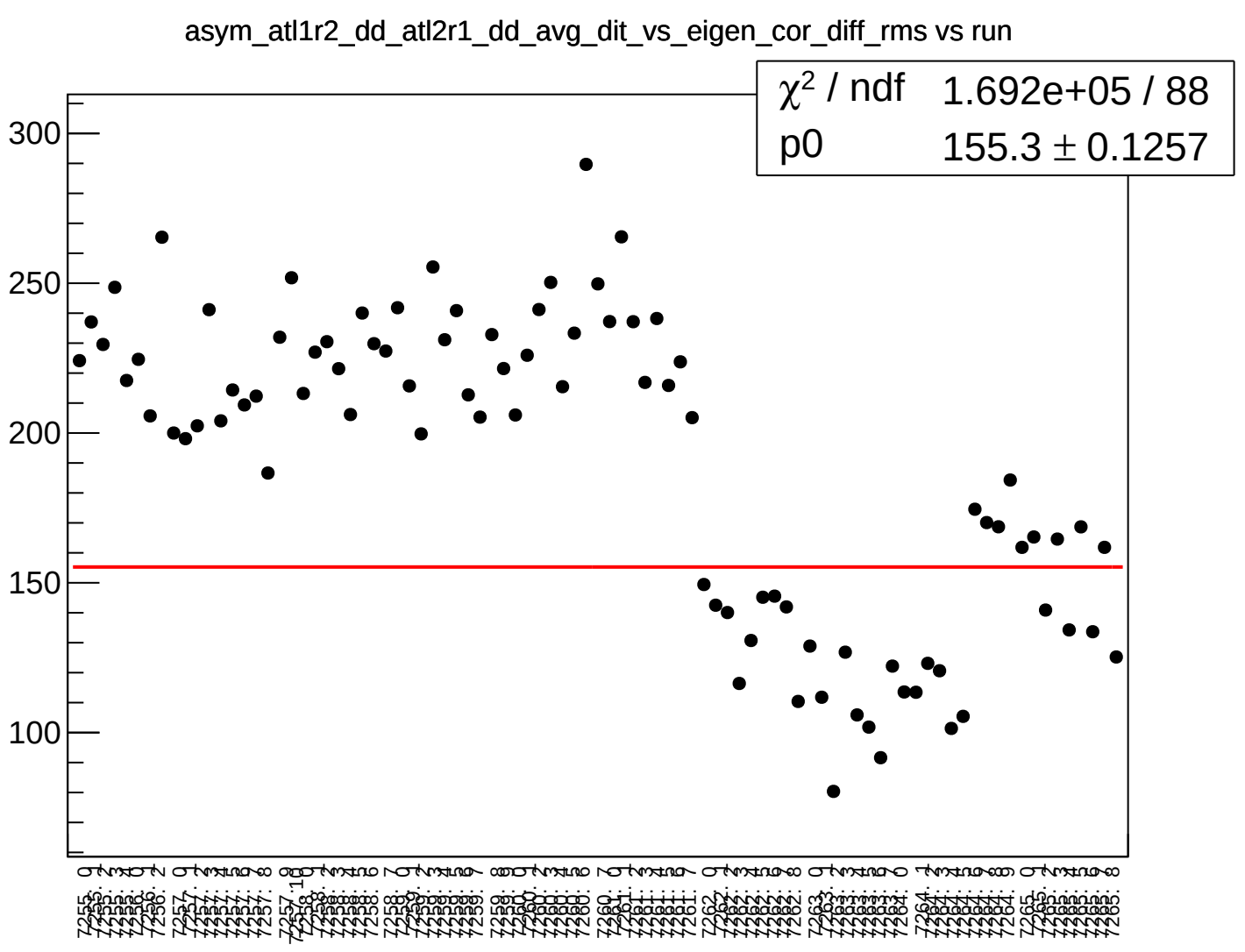

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.54 / 88
p0 −0.02935 ± 0.1778
pull
Entries 89
Mean −54.06
Std Dev 0

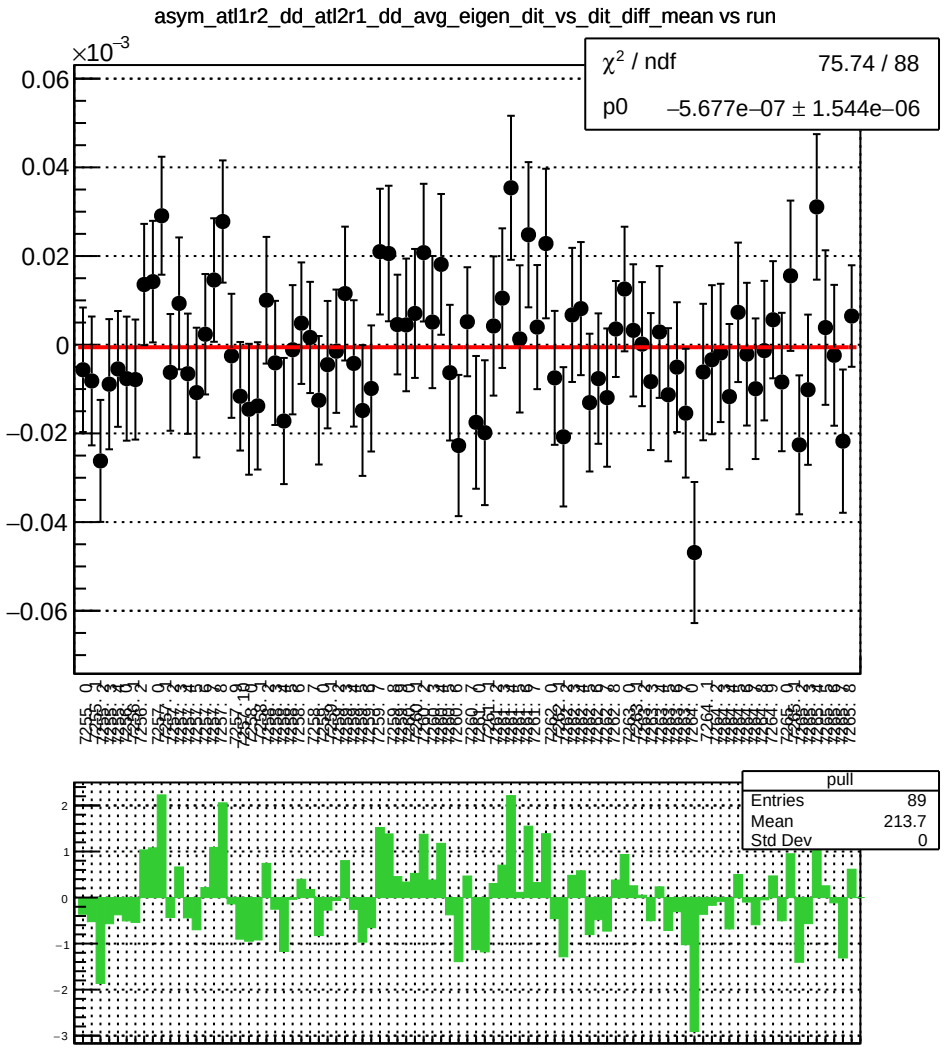

pull1D
Entries 89
Mean −0.04225
Std Dev 0.9852

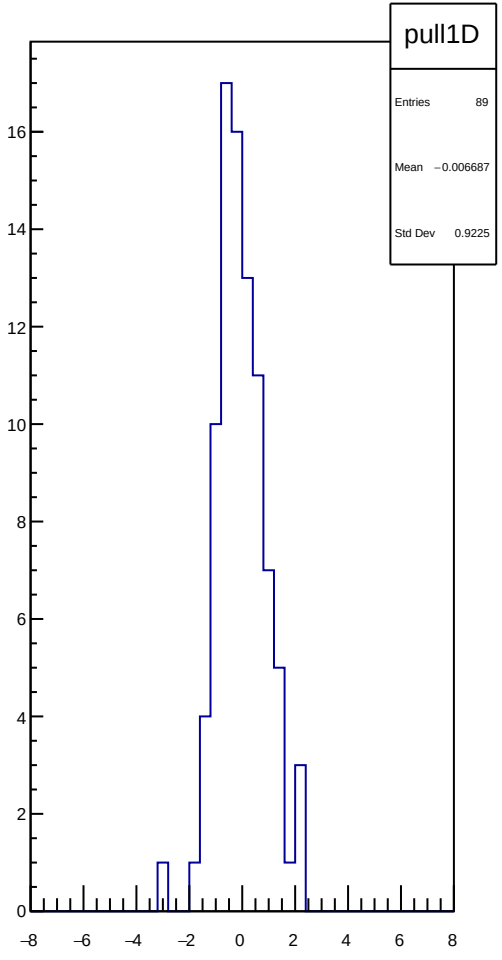

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.692e+05 / 88
p0 155.3 ± 0.1257
300
250
200
150
100

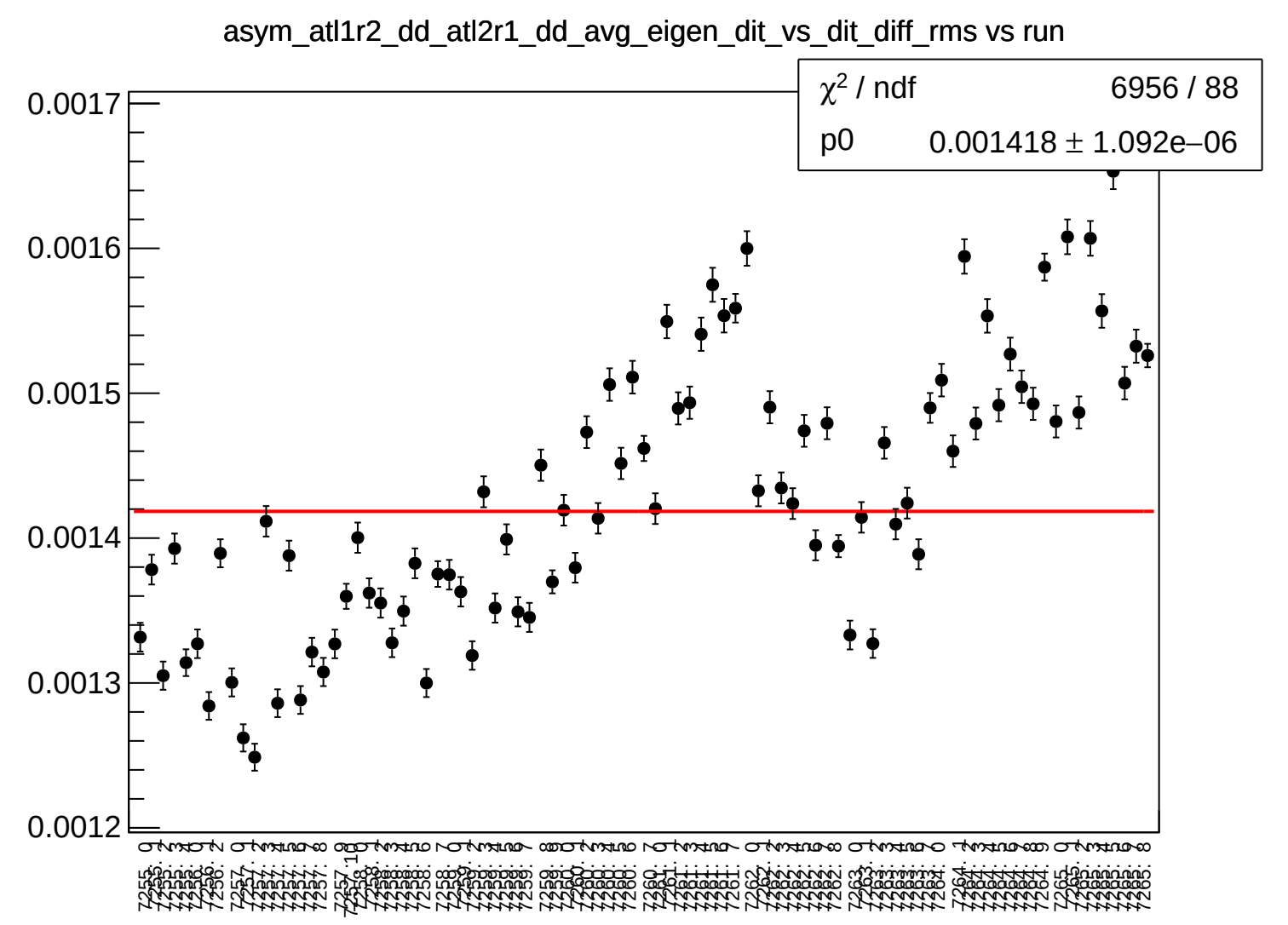

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.54 / 88
p0 −0.02935 ± 0.1778
pull
Entries 89
Mean −54.06
Std Dev 0

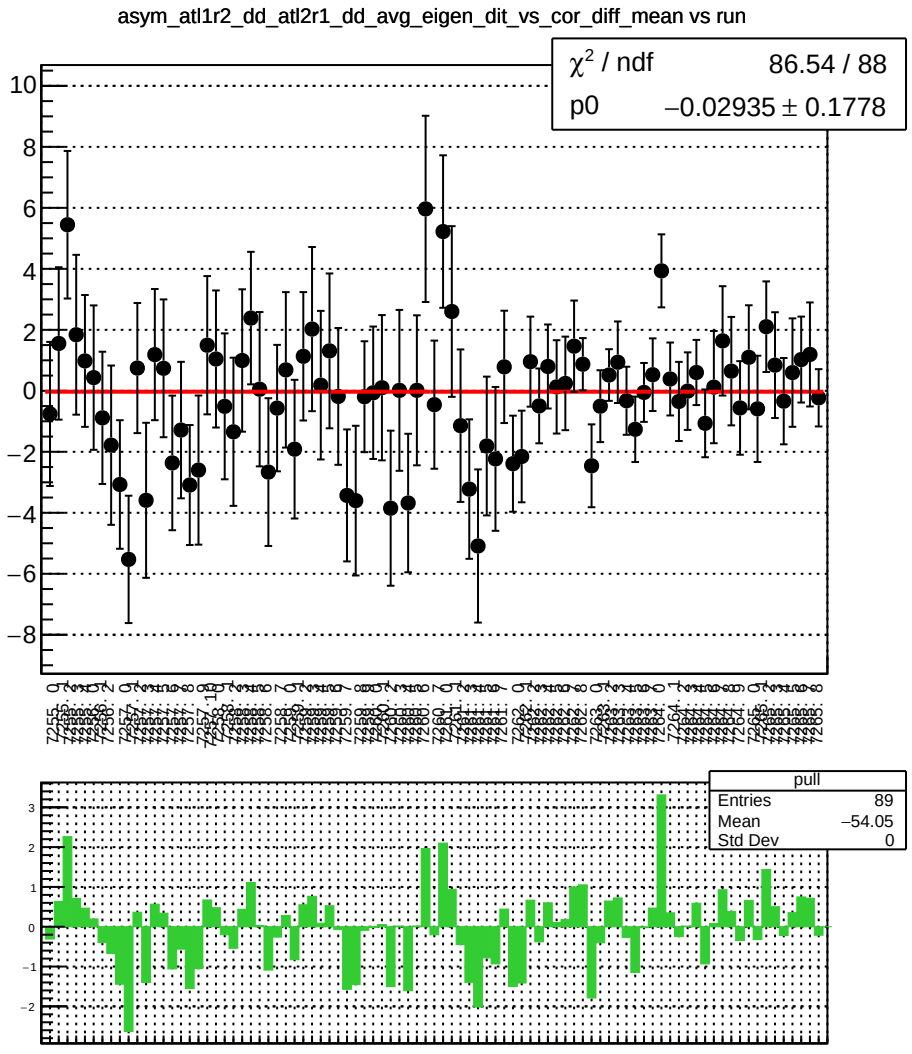

pull1D
Entries 89
Mean −0.04225
Std Dev 0.9852

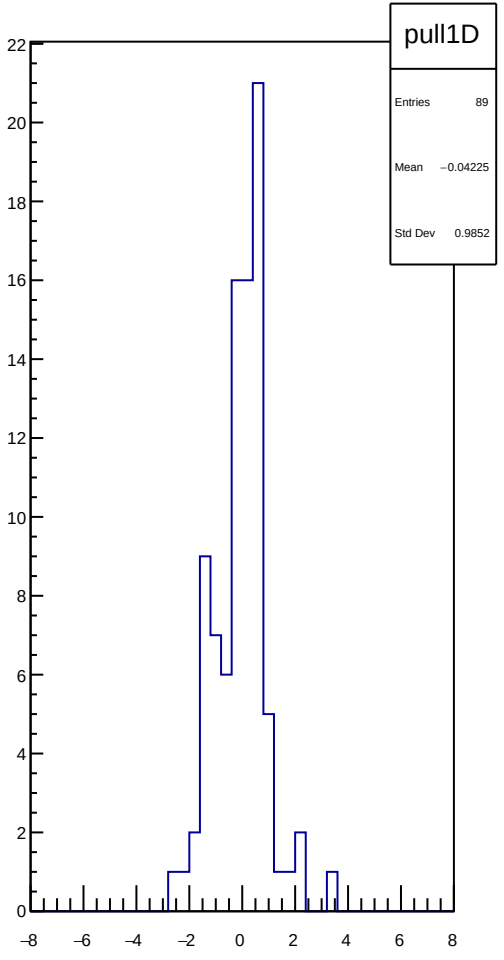

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.692e+05 / 88
p0 155.3 ± 0.1257
300
250
200
150
100

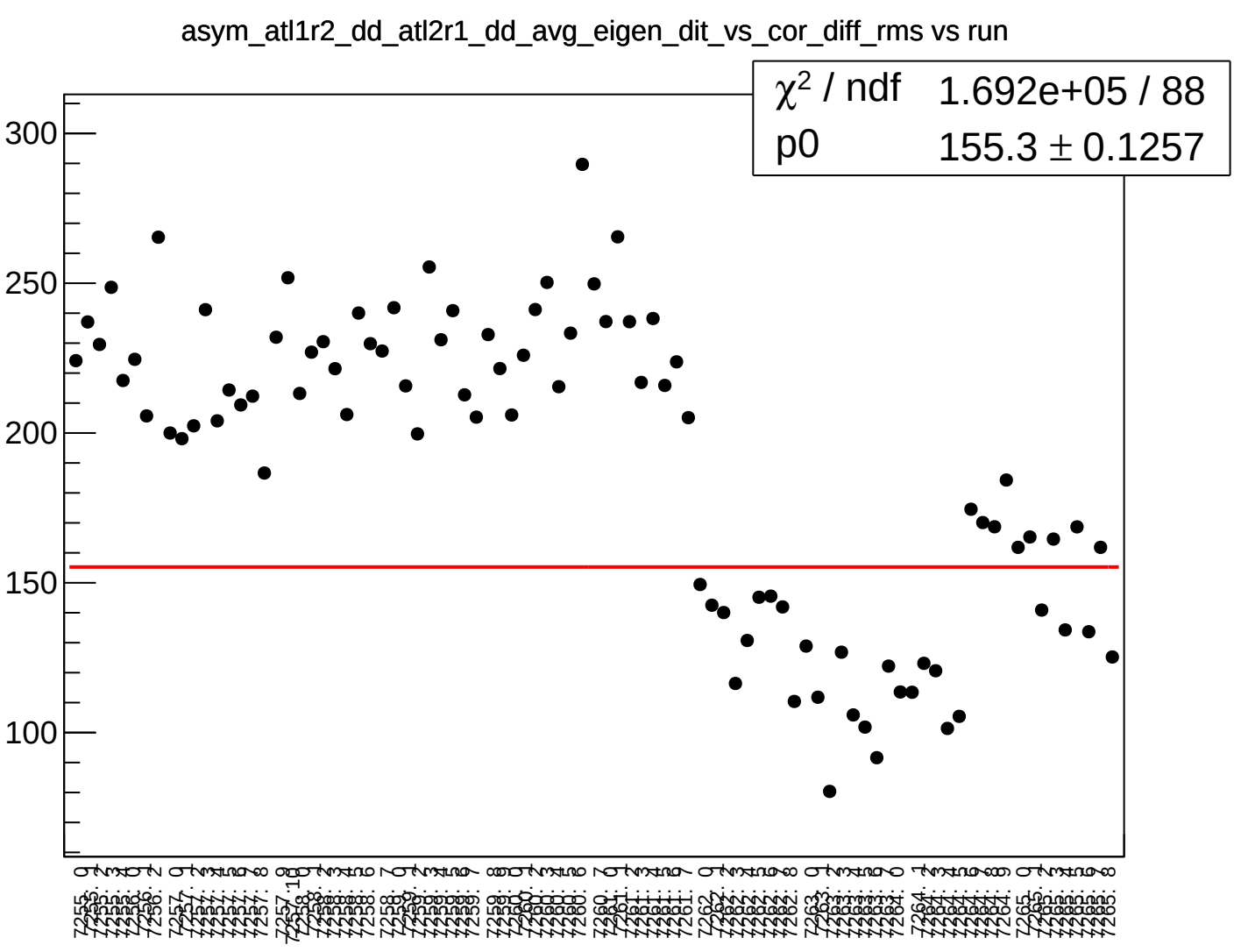

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.74 / 88
p0 −5.677e−07 ± 1.544e−06
pull
Entries 89
Mean 213.7
Std Dev 0

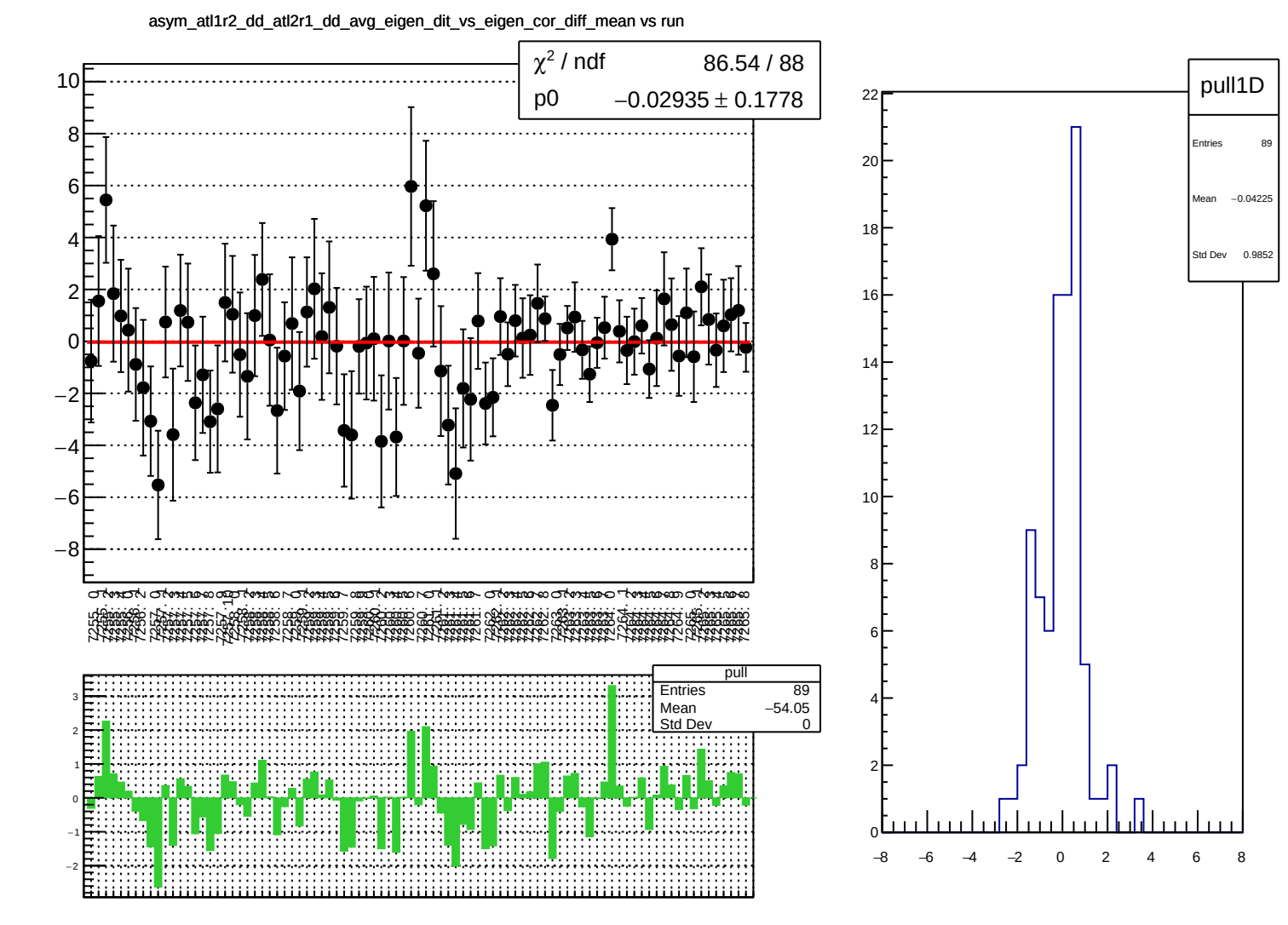

pull1D
Entries 89
Mean −0.006687
Std Dev 0.9225

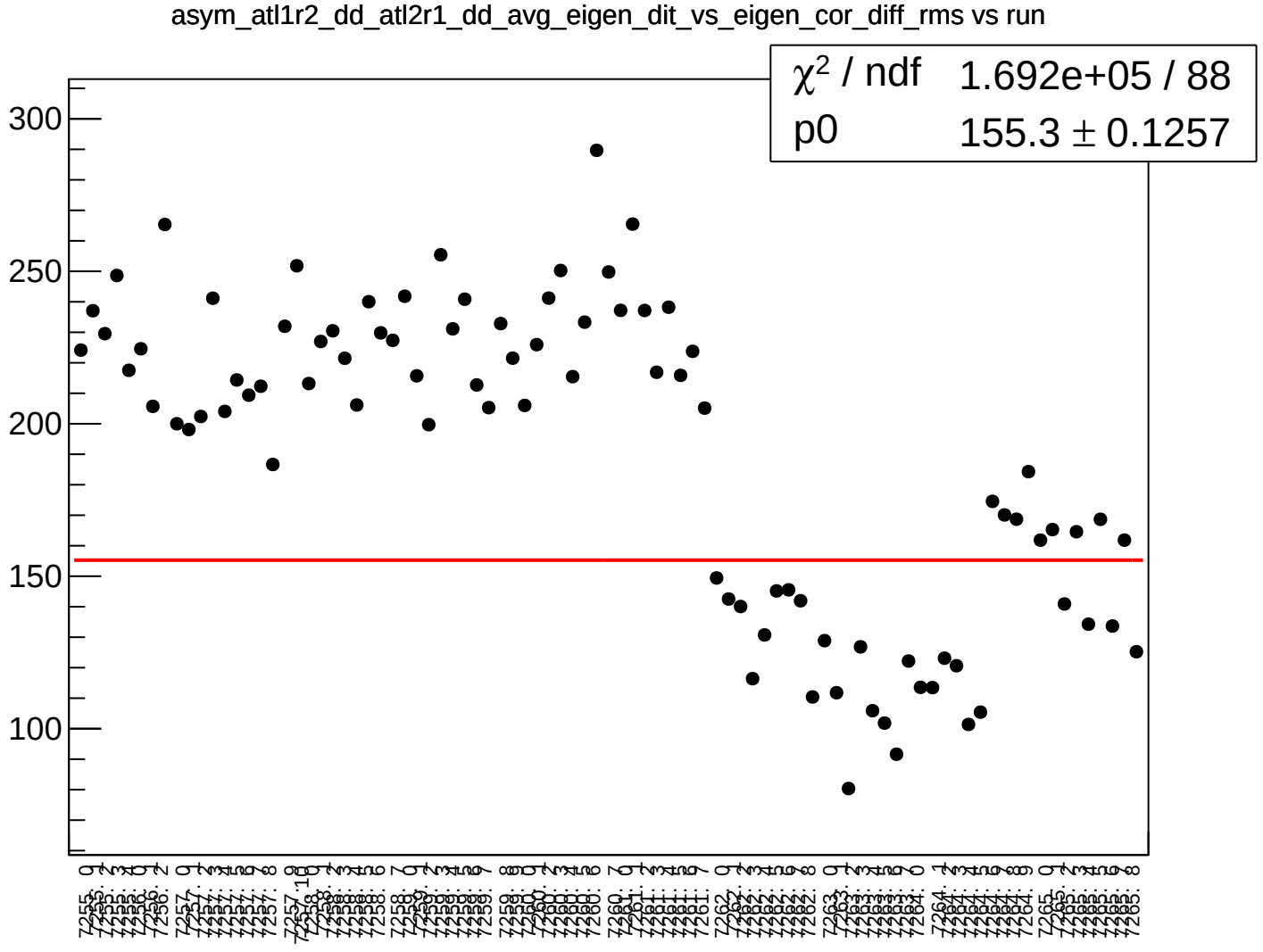

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6956 / 88
p0 0.001418 ± 1.092e−06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

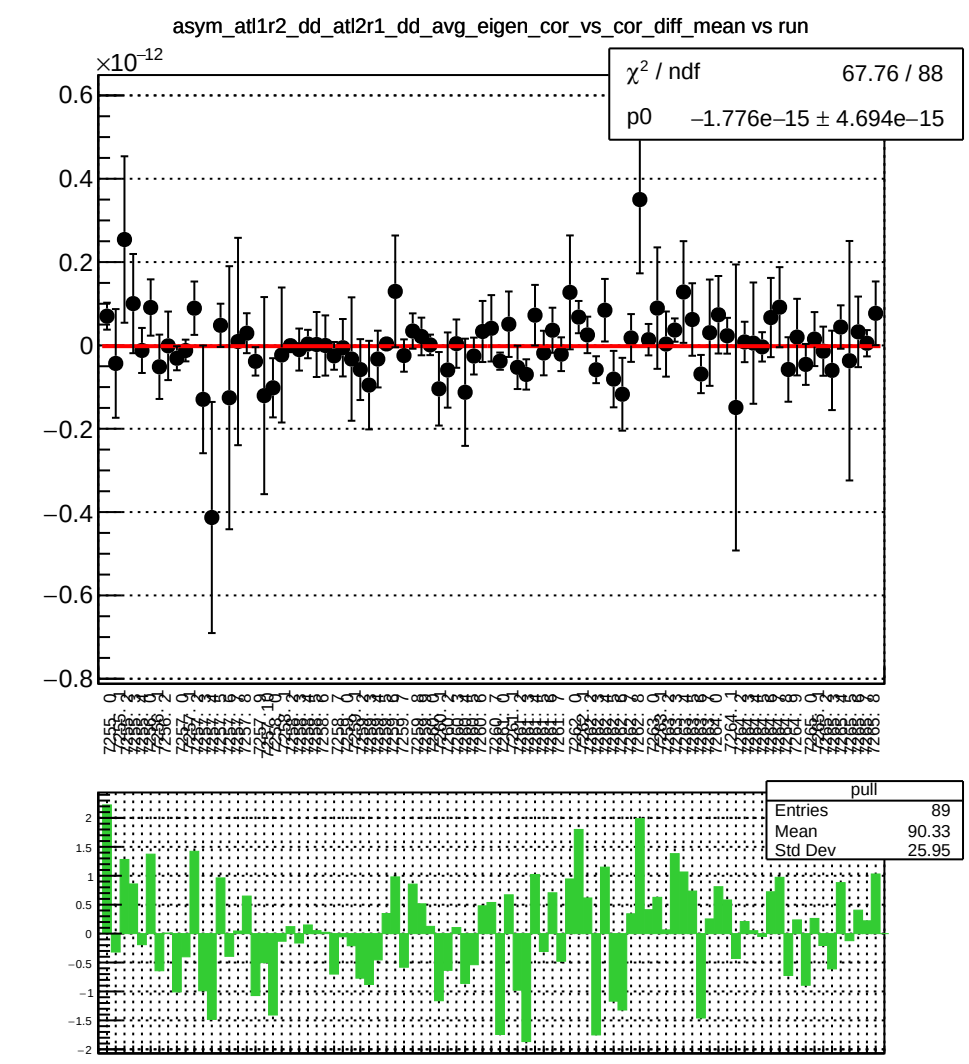

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.54 / 88
p0 −0.02935 ± 0.1778
pull
Entries 89
Mean −54.05
Std Dev 0

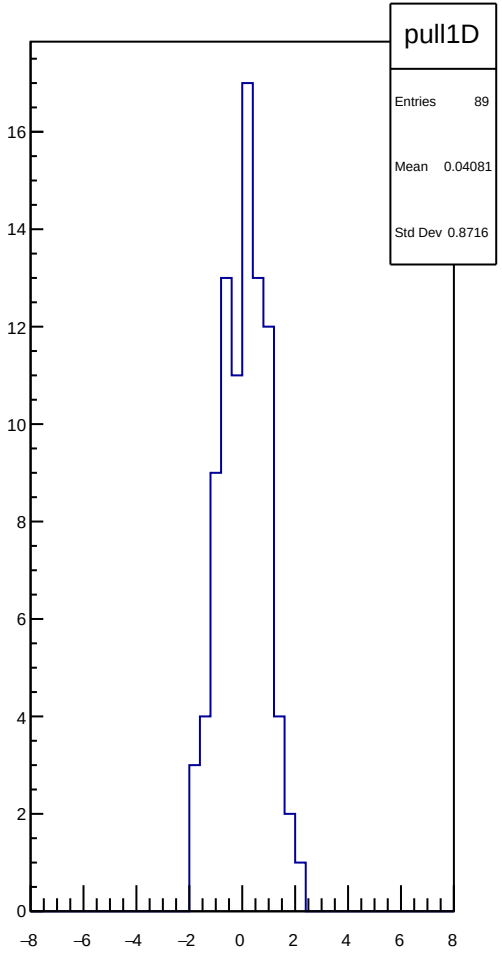

pull1D
Entries 89
Mean −0.04225
Std Dev 0.9852

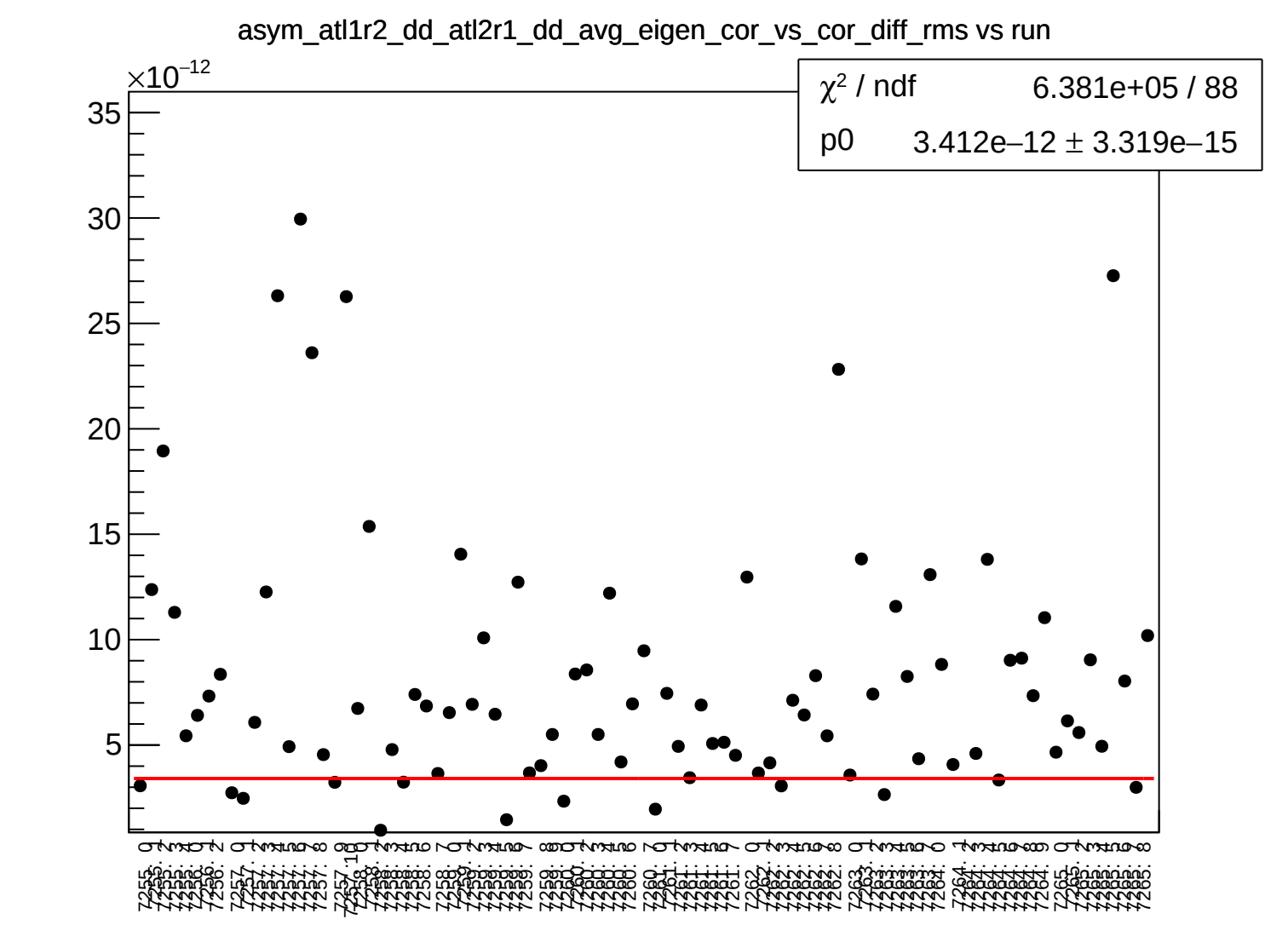

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.692e+05 / 88
p0 155.3 ± 0.1257
300
250
200
150
100

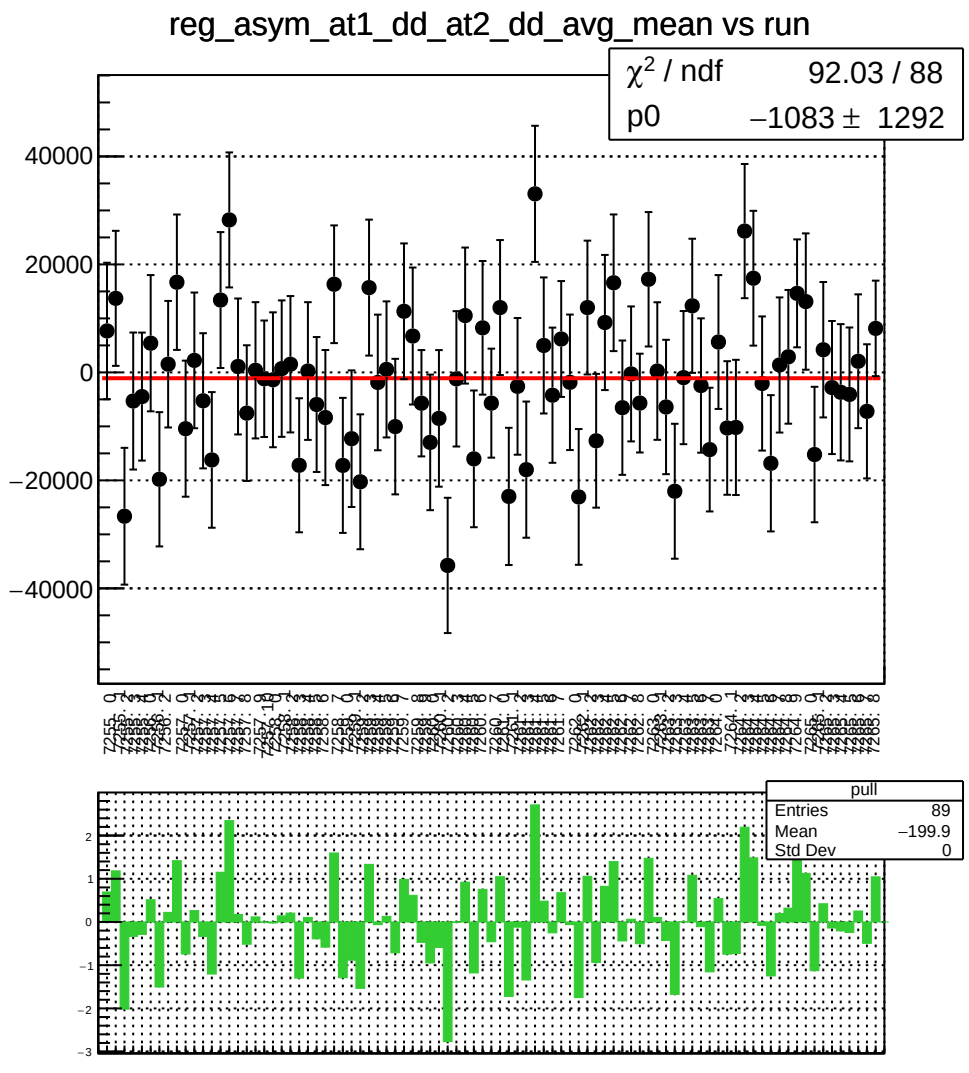

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.54 / 88
p0 −0.02935 ± 0.1778
pull
Entries 89
Mean −54.05
Std Dev 0
pull1D
Entries 89
Mean −0.04225
Std Dev 0.9852

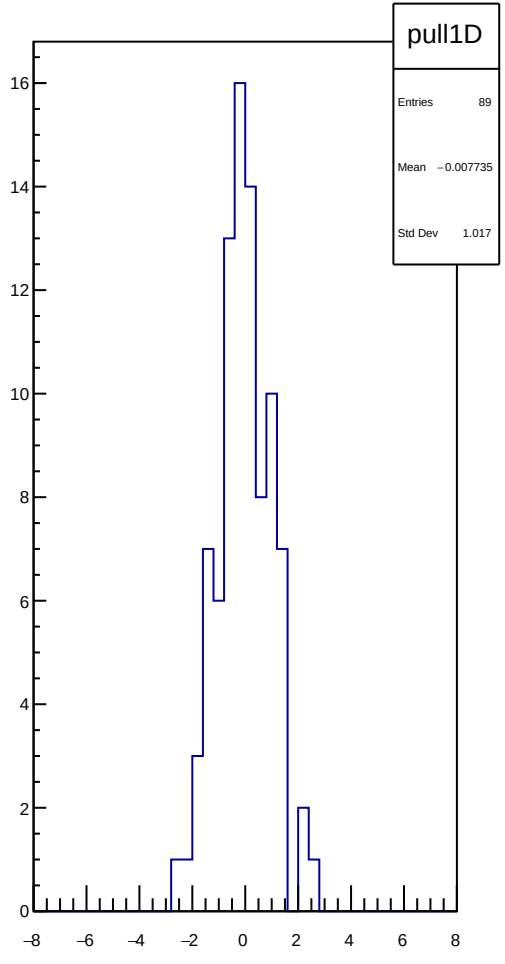

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.692e+05 / 88
p0 155.3 ± 0.1257
300
250
200
150
100

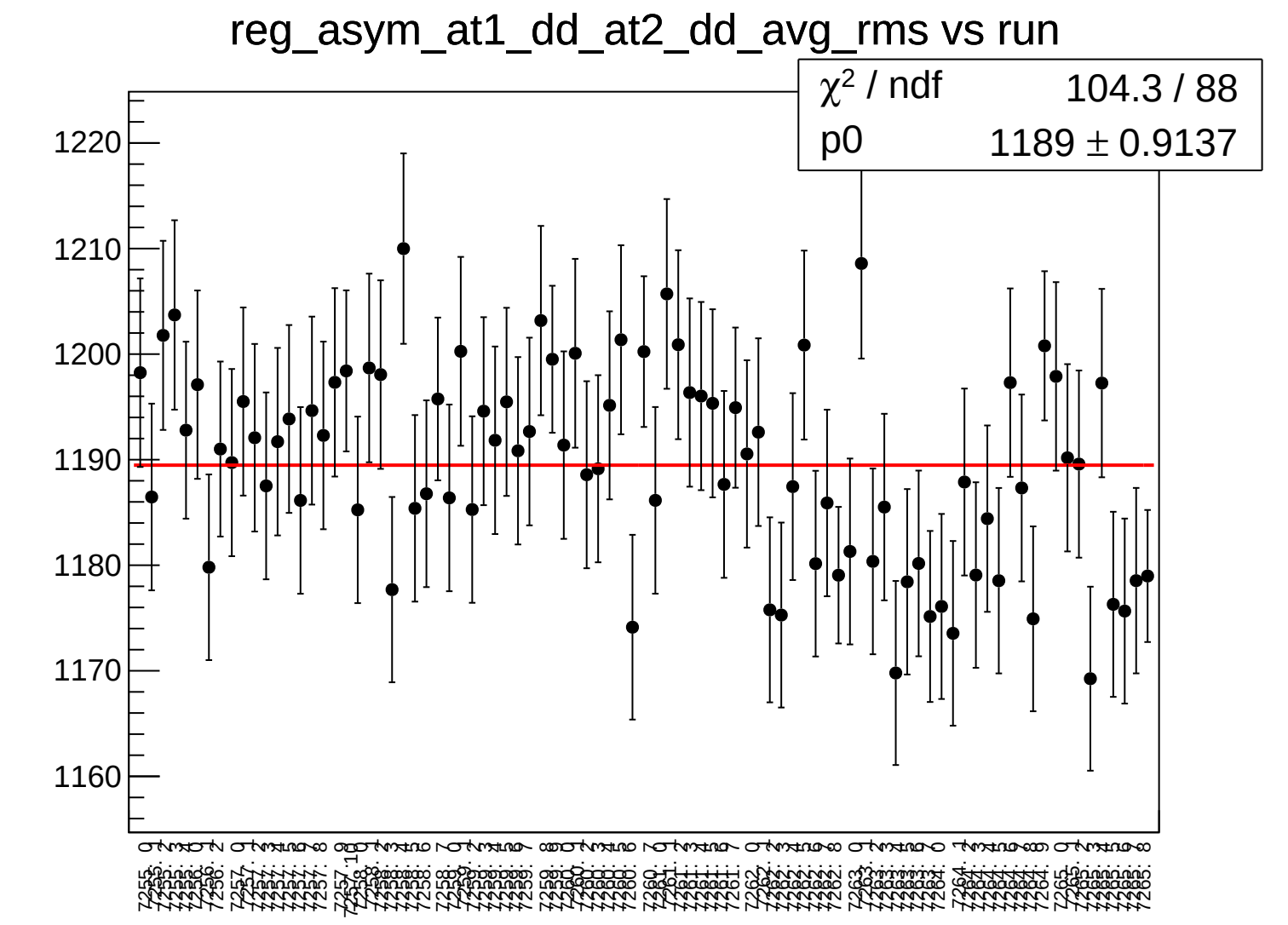

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 67.76 / 88
p0 −1.776e−15 ± 4.694e−15
pull
Entries 89
Mean 90.33
Std Dev 25.95

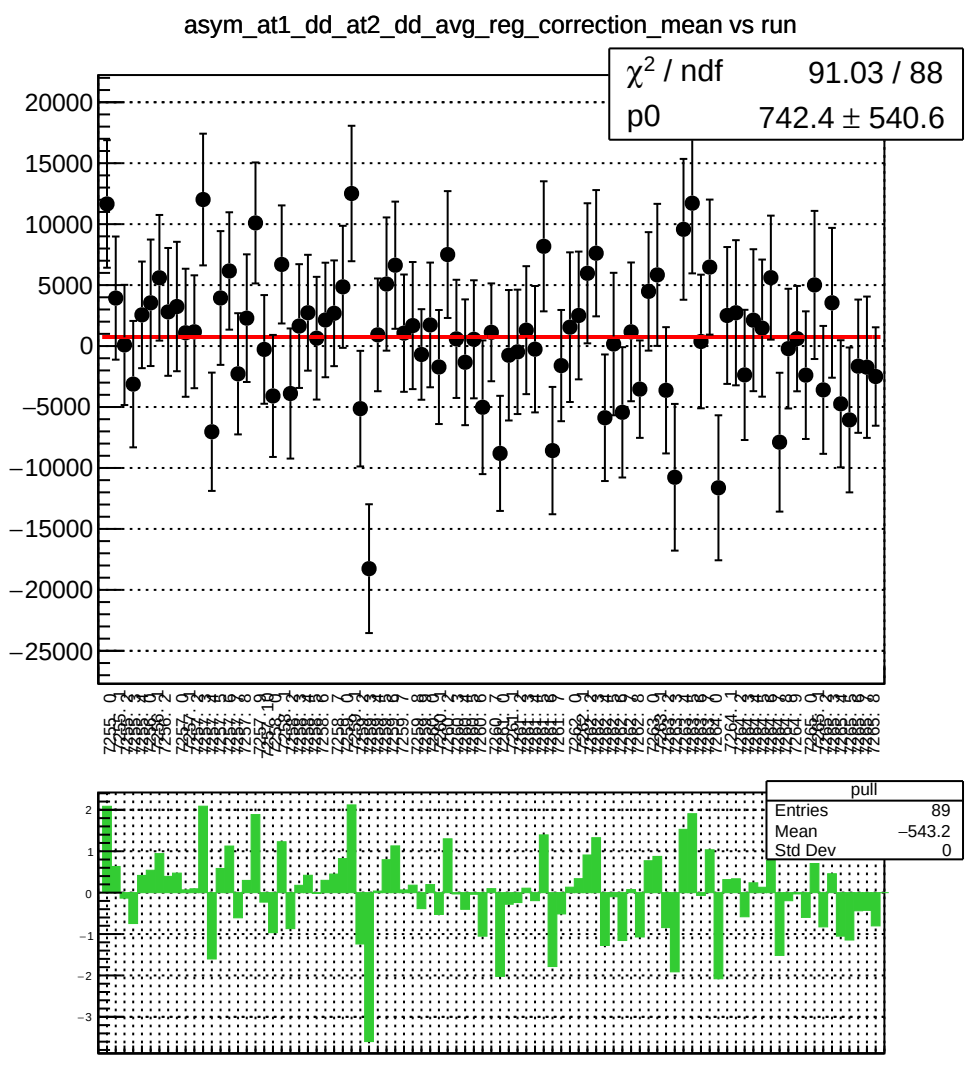

pull1D
Entries 89
Mean 0.04081
Std Dev 0.8716

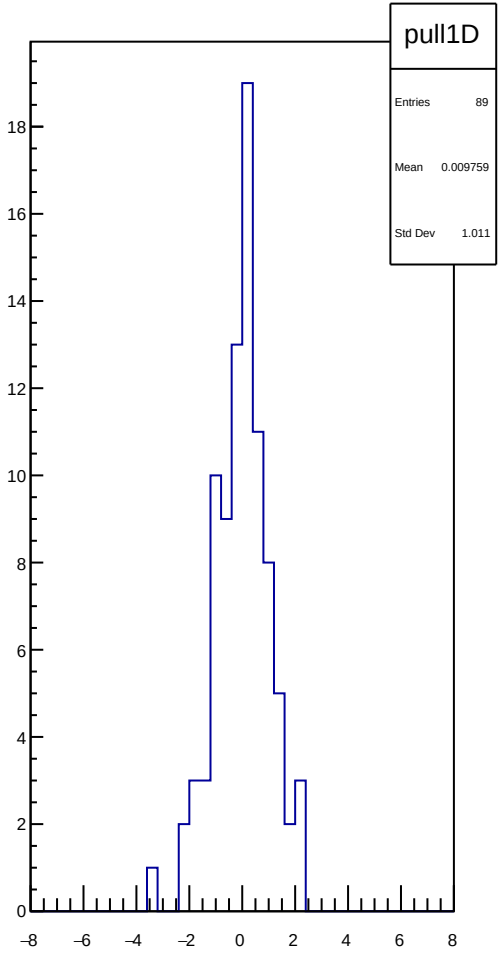

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.381e+05 / 88
p0 3.412e−12 ± 3.319e−15
35
30
25
20
15
10
5

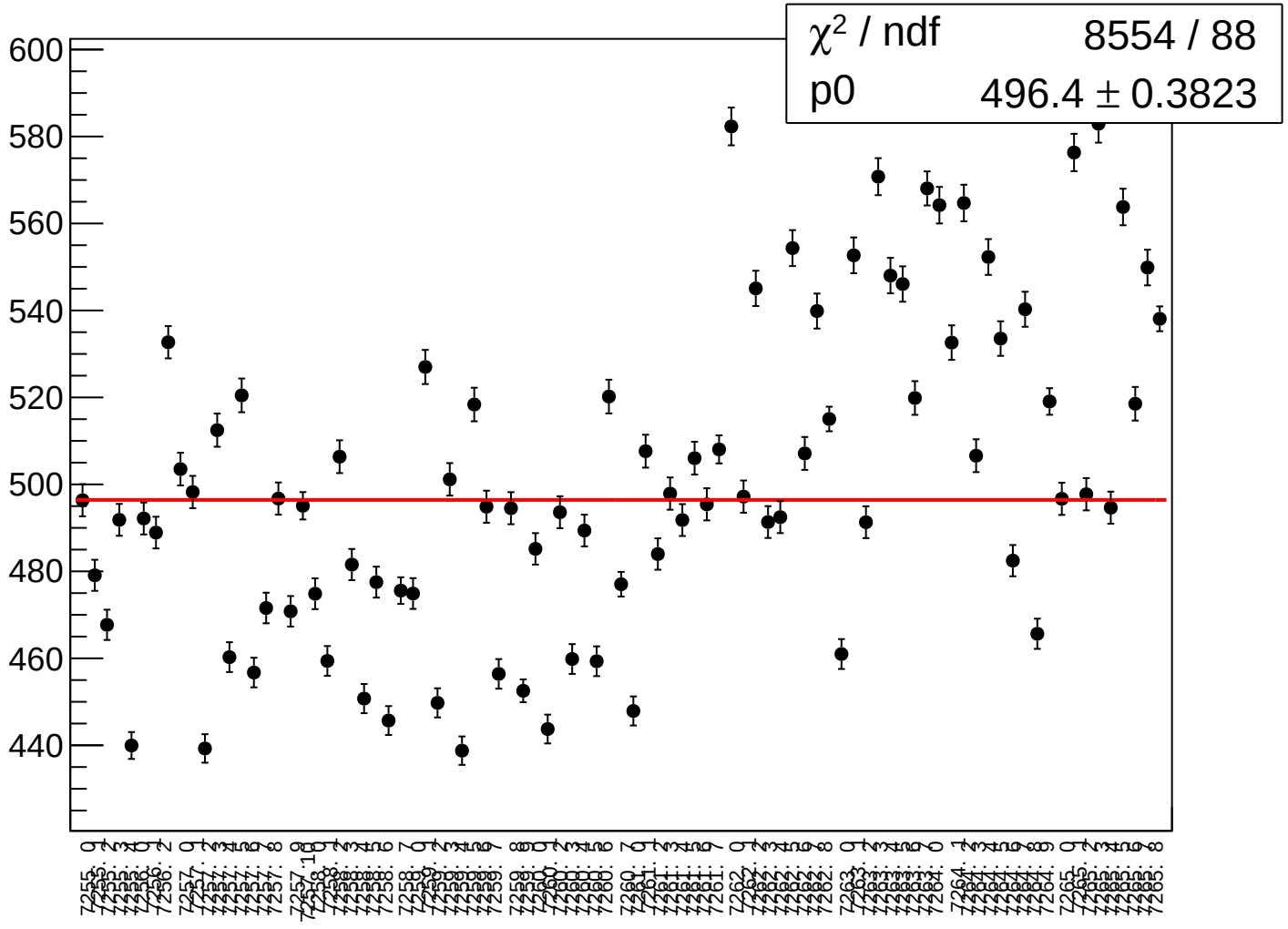

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 92.03 / 88
p0 −1083 ± 1292
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −199.9
Std Dev 0
2
1
0
−1
−2
−3

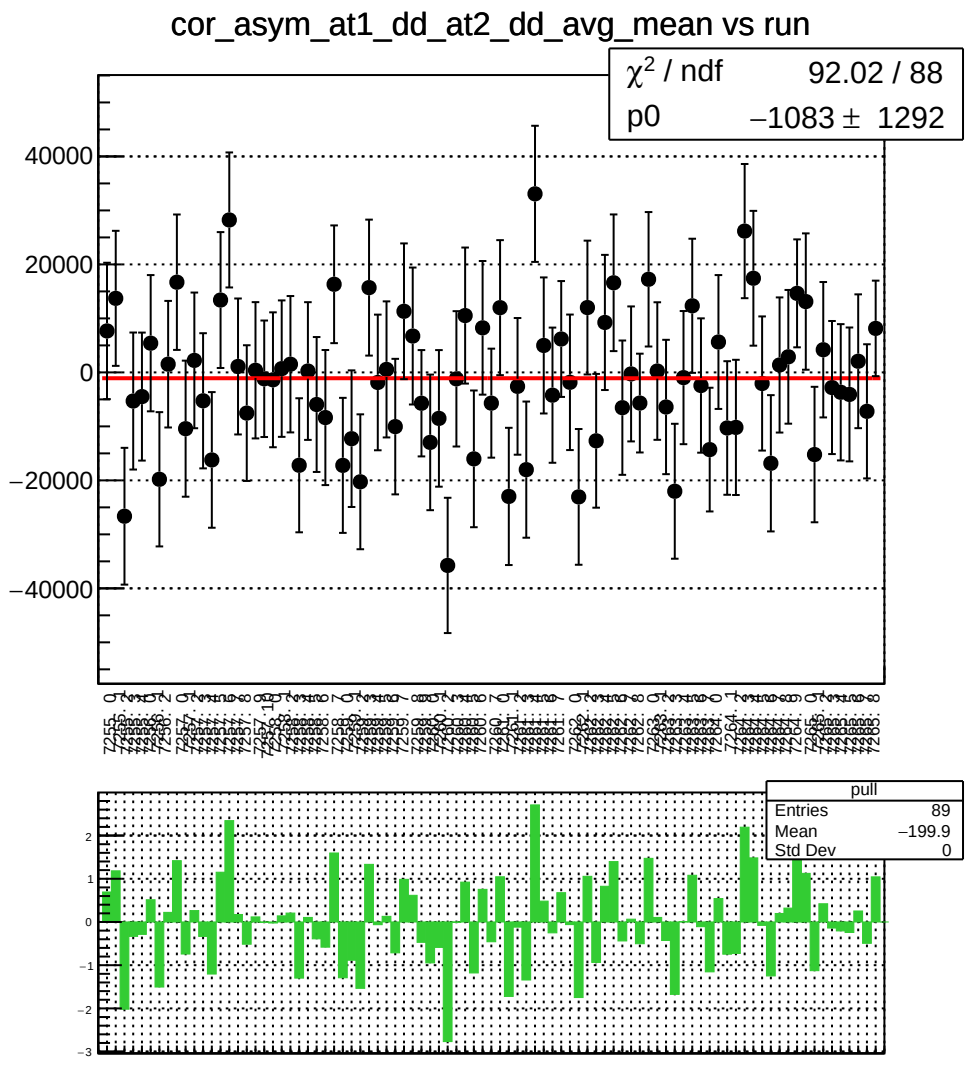

pull1D
Entries 89
Mean −0.007735
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

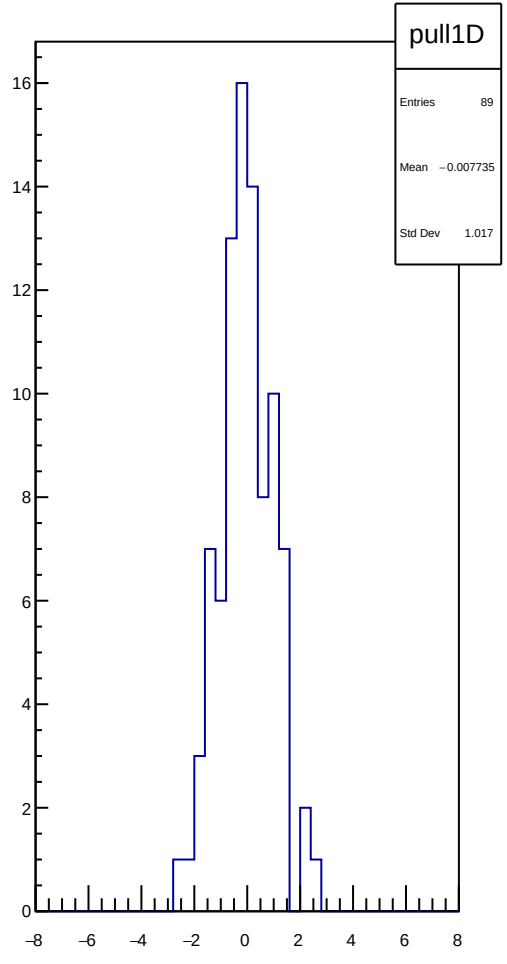

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 104.3 / 88
p0 1189 ± 0.9137
1220
1210
1200
1190
1180
1170
1160

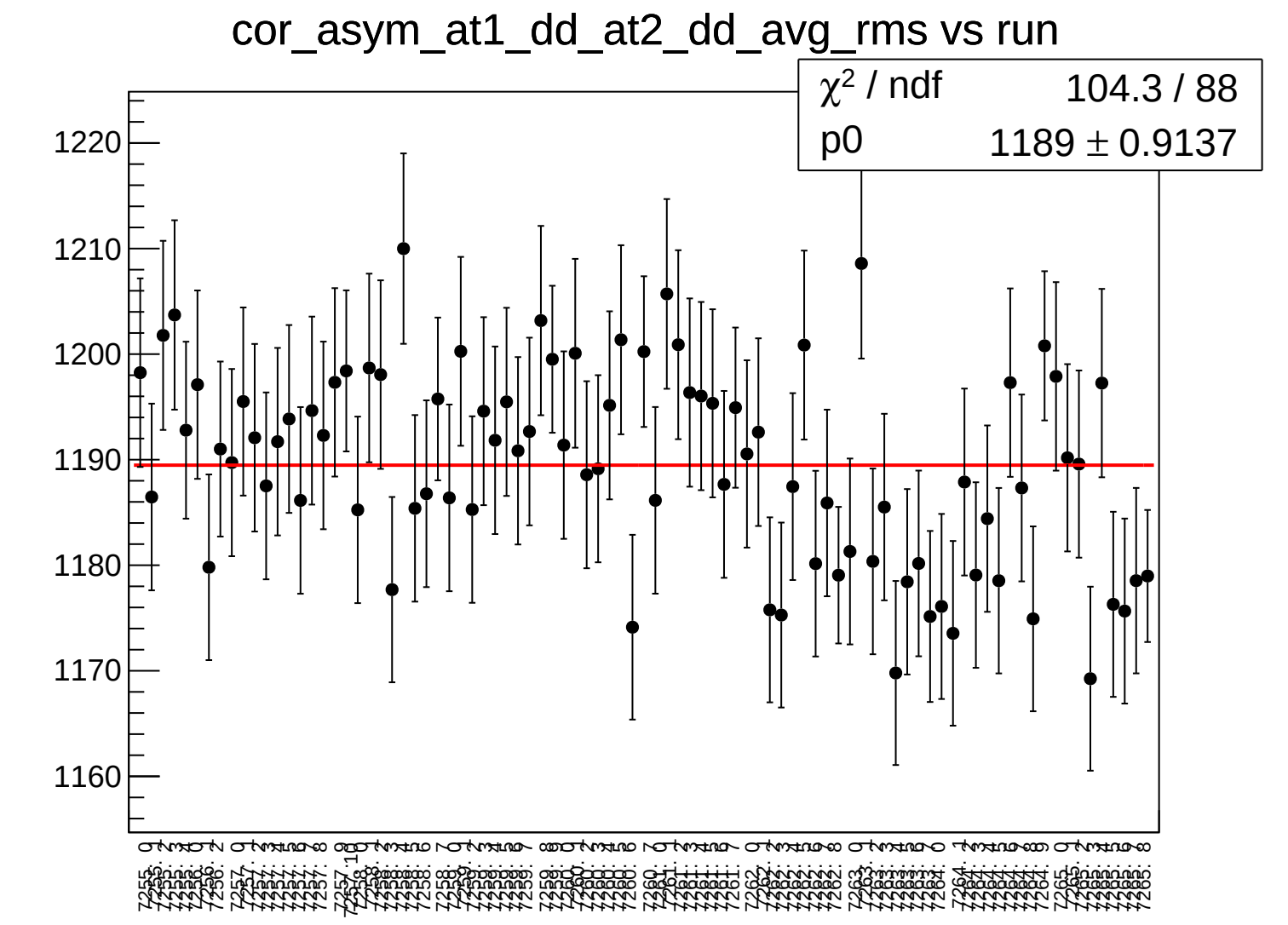

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 91.03 / 88
p0 742.4 ± 540.6
pull
Entries 89
Mean −543.2
Std Dev 0

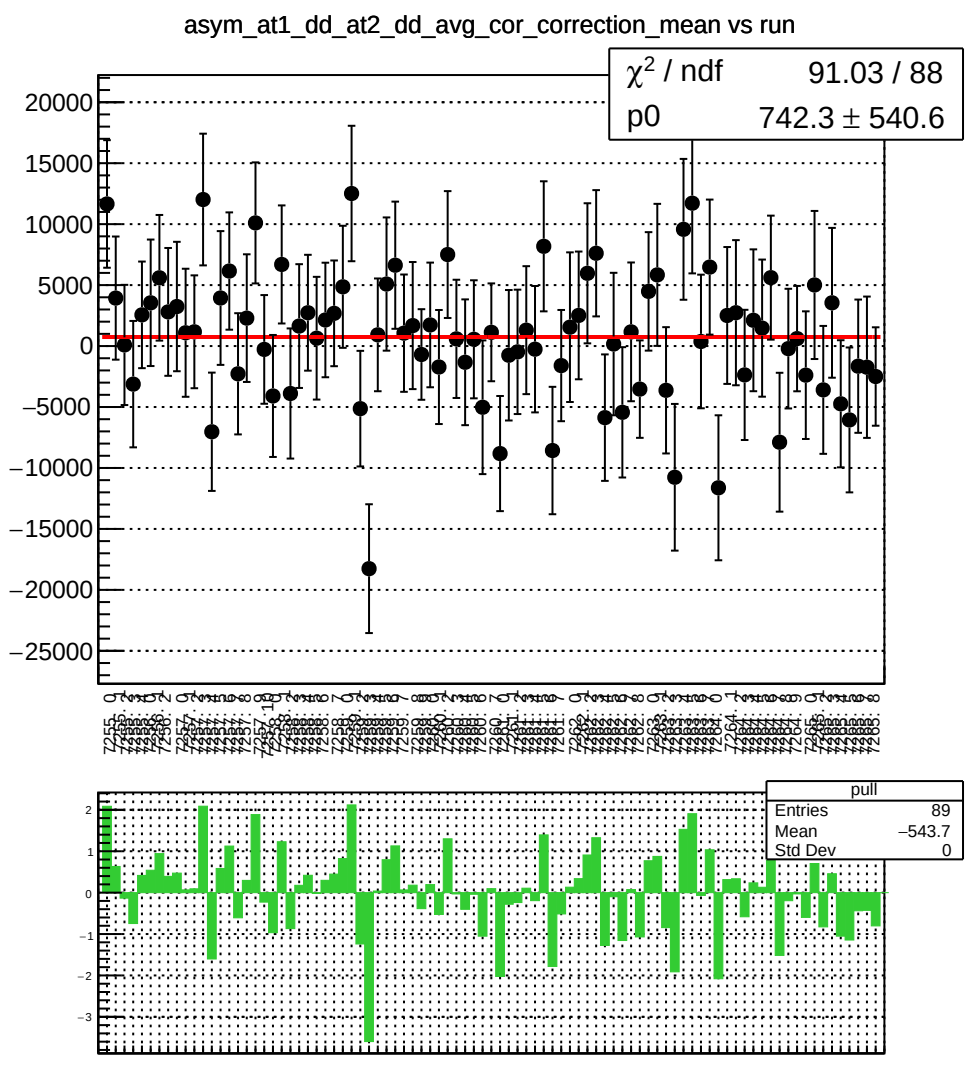

pull1D
Entries 89
Mean 0.009759
Std Dev 1.011

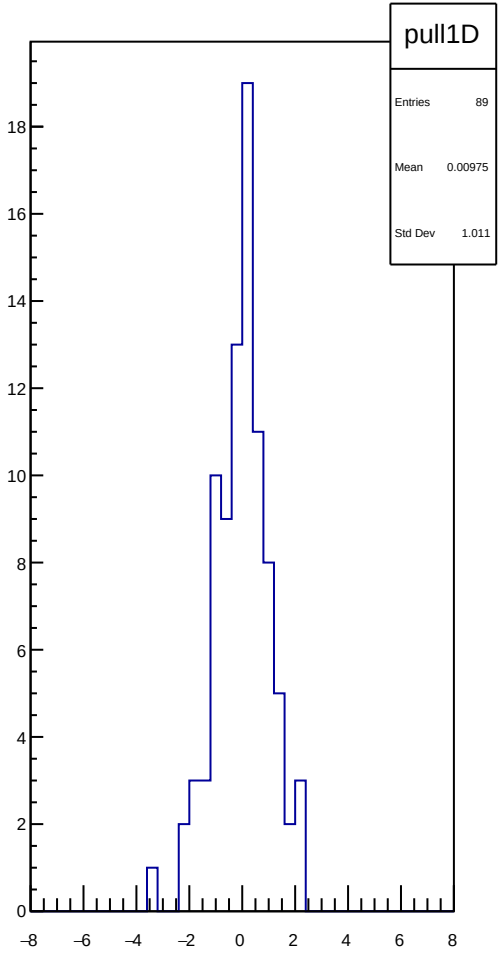

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 8554 / 88
p0 496.4 ± 0.3823
600
580
560
540
520
500
480
460
440

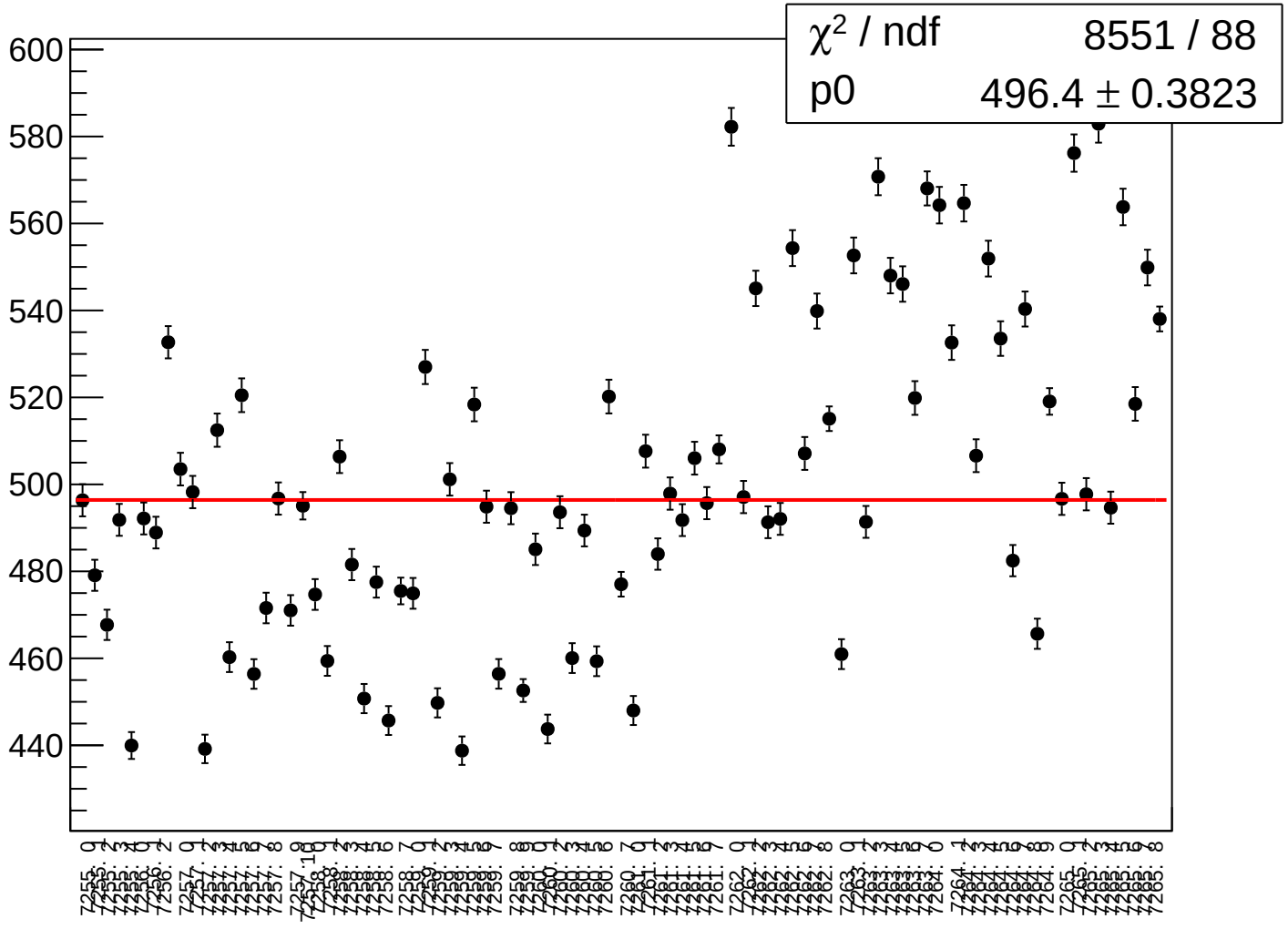

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 92.02 / 88
p0 −1083 ± 1292
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −199.9
Std Dev 0
2
1
0
−1
−2
−3

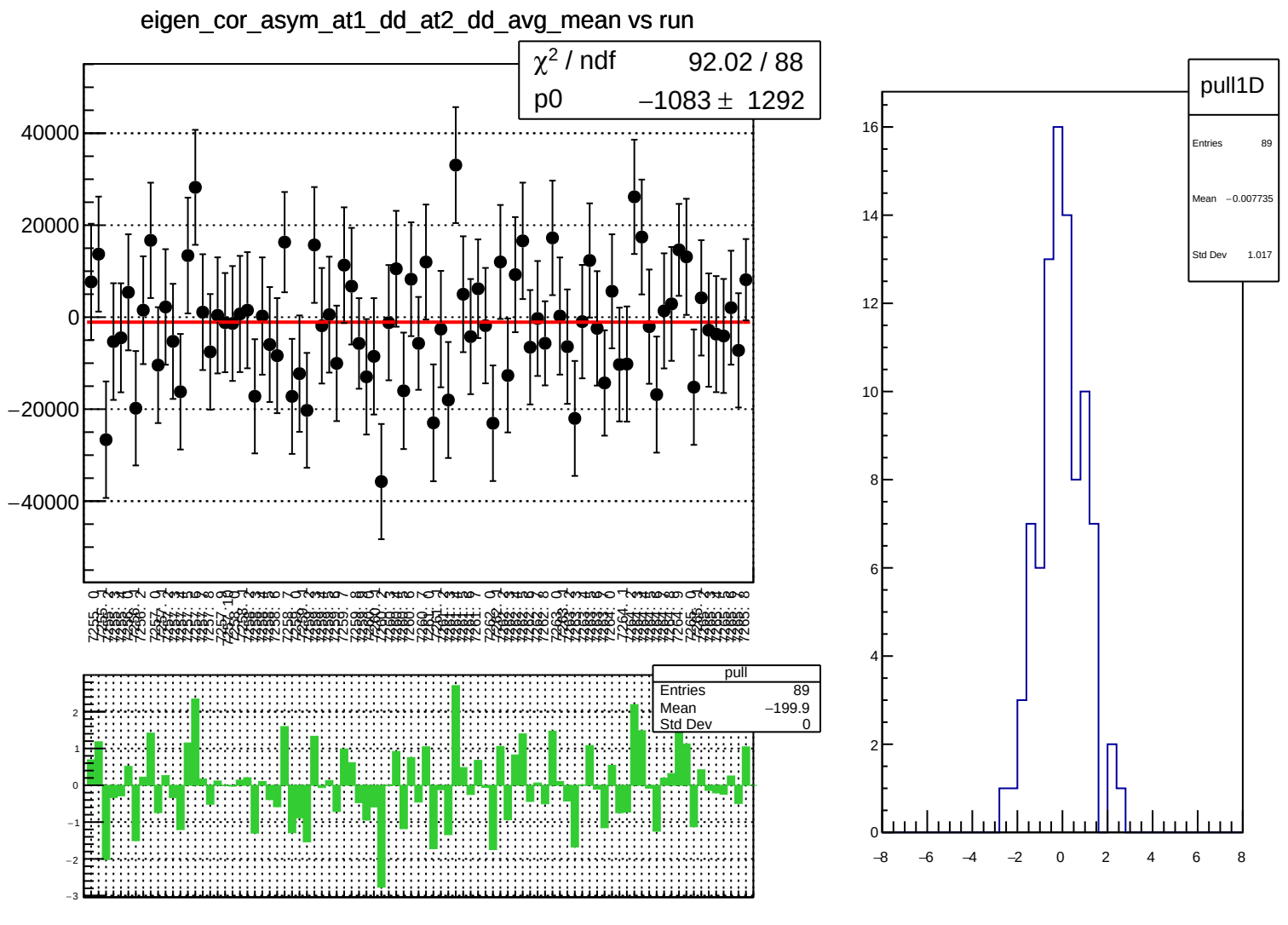

pull1D
Entries 89
Mean −0.007735
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

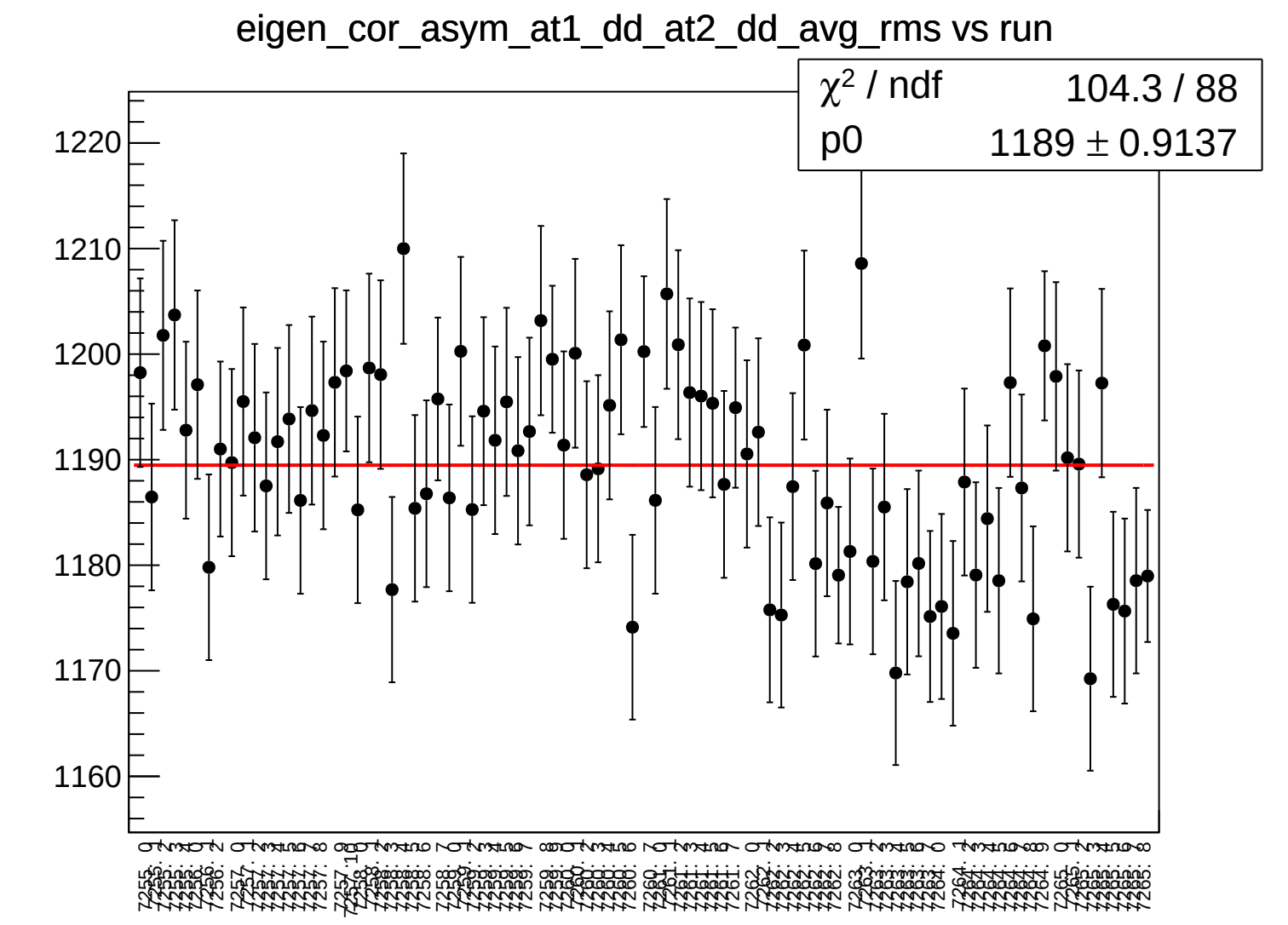

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 104.3 / 88
p0 1189 ± 0.9137
1220
1210
1200
1190
1180
1170
1160

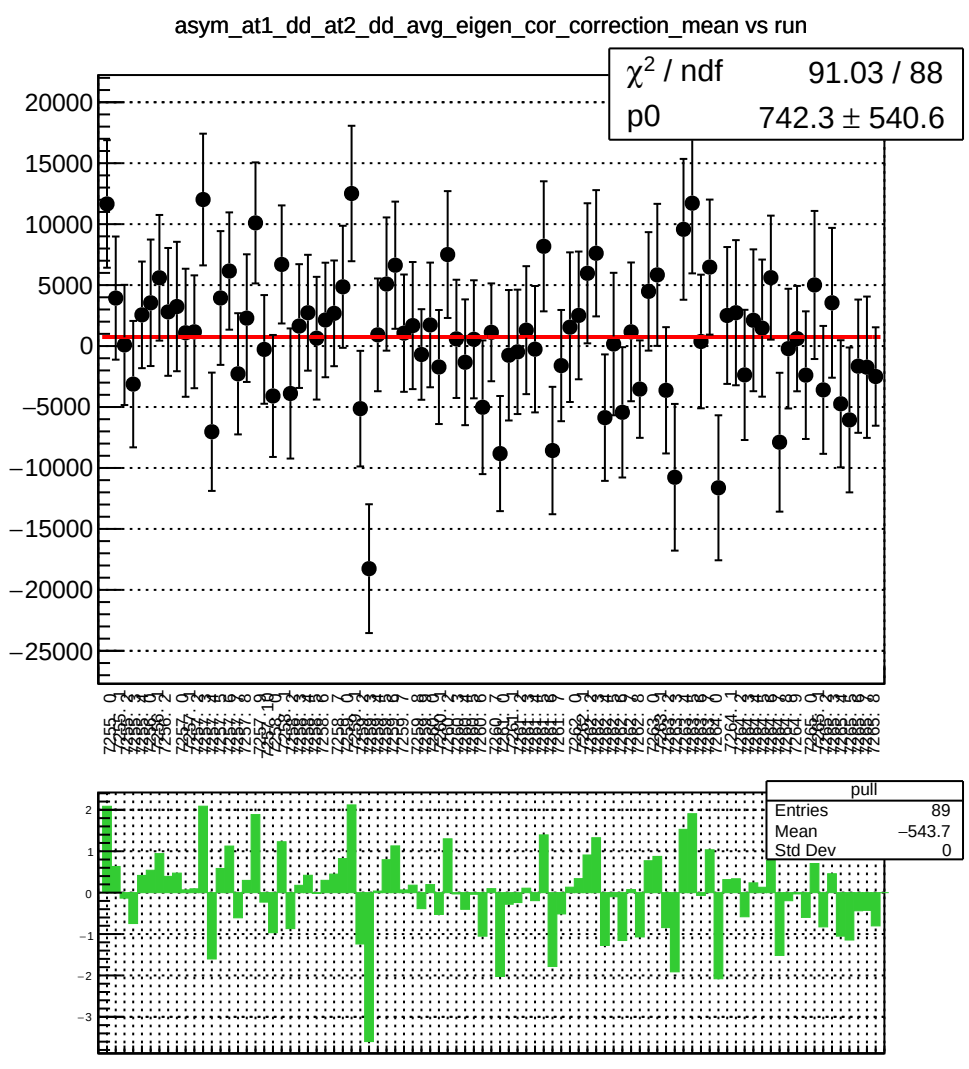

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 91.03 / 88
p0 742.3 ± 540.6
pull
Entries 89
Mean −543.7
Std Dev 0

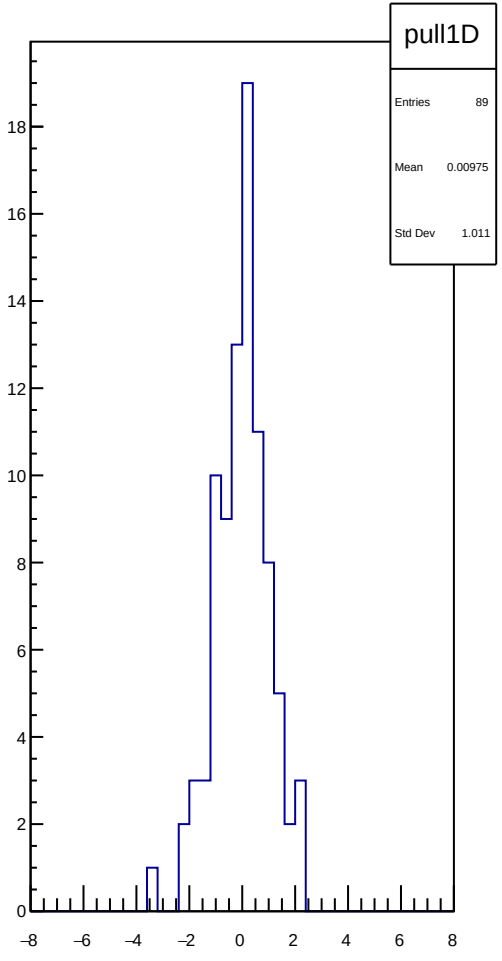

pull1D
Entries 89
Mean 0.00975
Std Dev 1.011

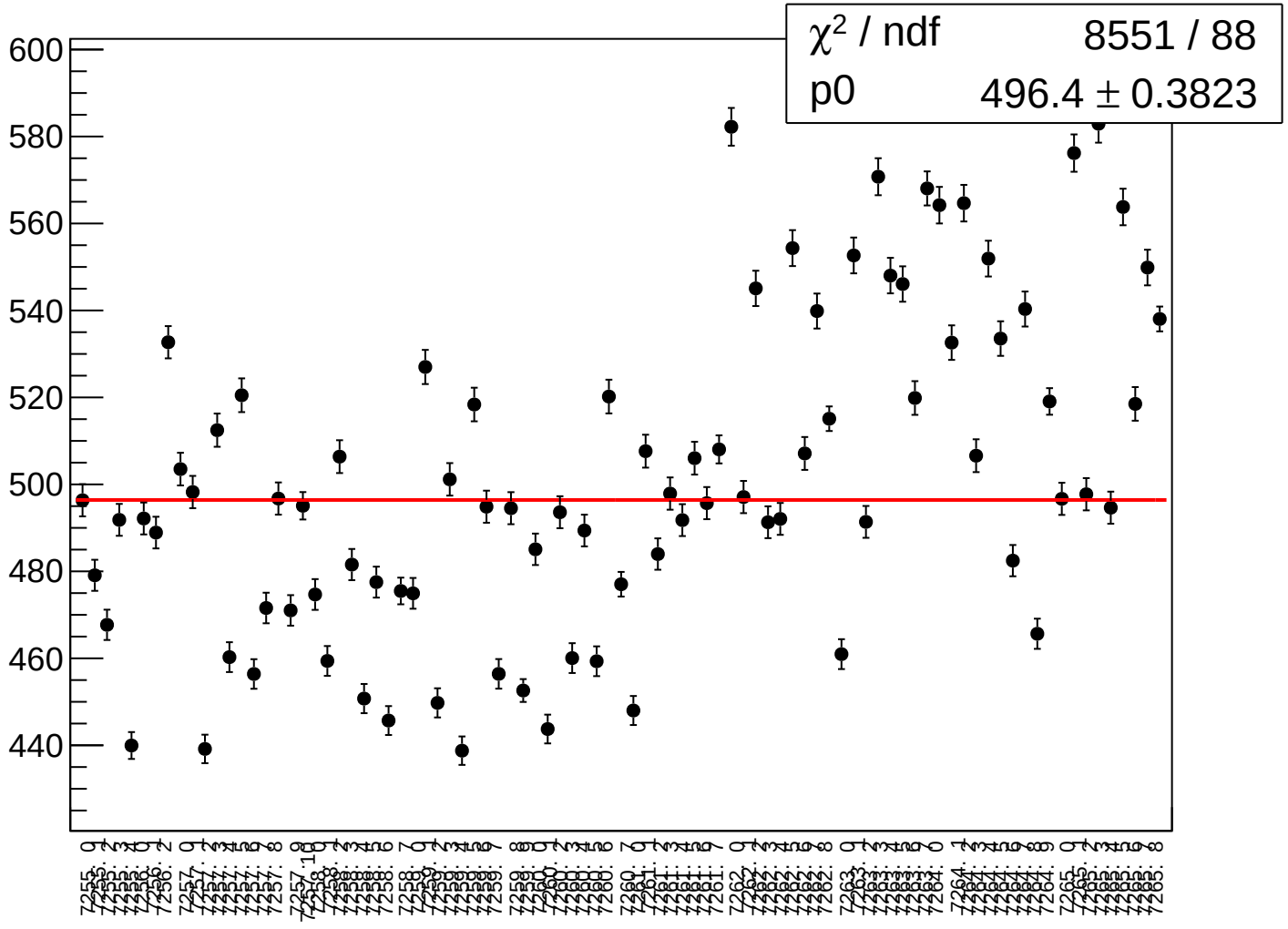

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 8551 / 88
p0 496.4 ± 0.3823
600
580
560
540
520
500
480
460
440

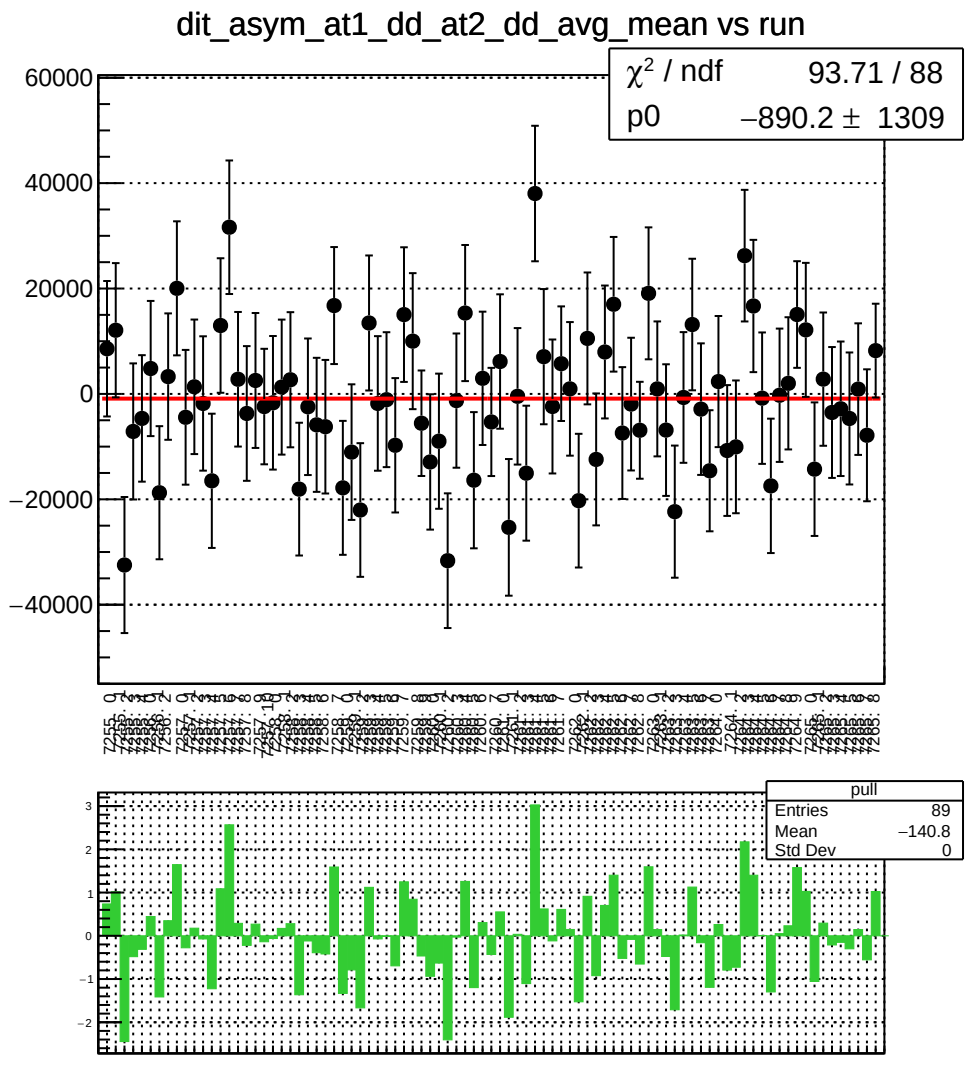

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 92.02 / 88
p0 −1083 ± 1292
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −199.9
Std Dev 0
pull1D
Entries 89
Mean −0.007735
Std Dev 1.017

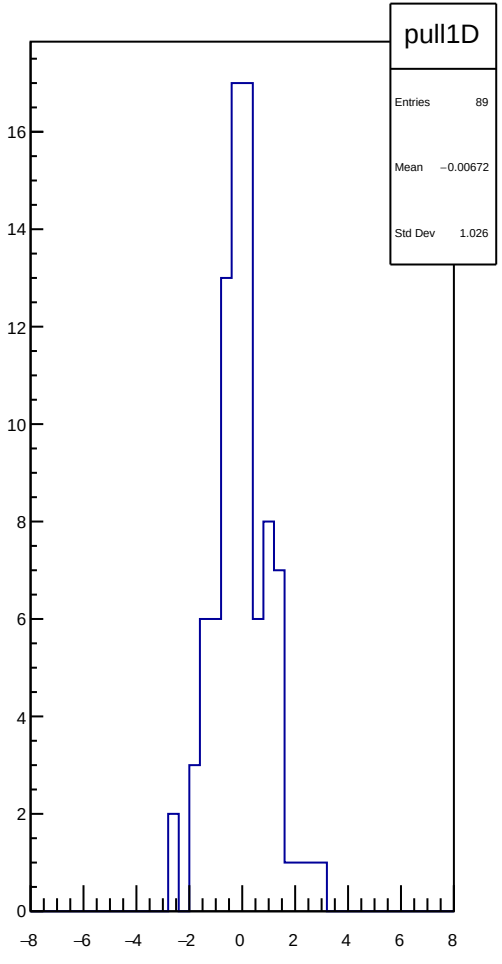

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 104.3 / 88
p0 1189 ± 0.9137
1220
1210
1200
1190
1180
1170
1160

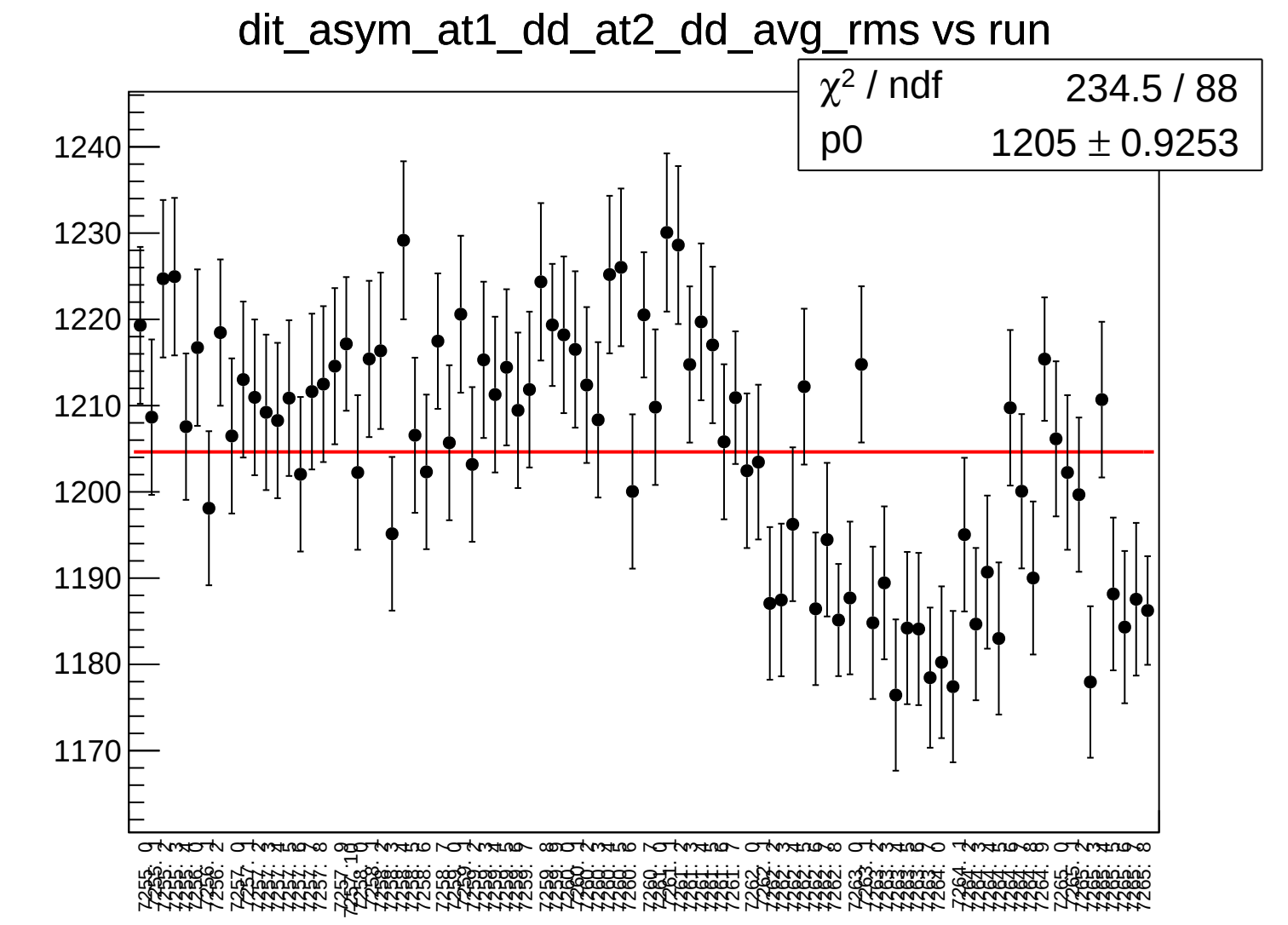

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.03 / 88
p0 742.3 ± 540.6
pull
Entries 89
Mean −543.7
Std Dev 0

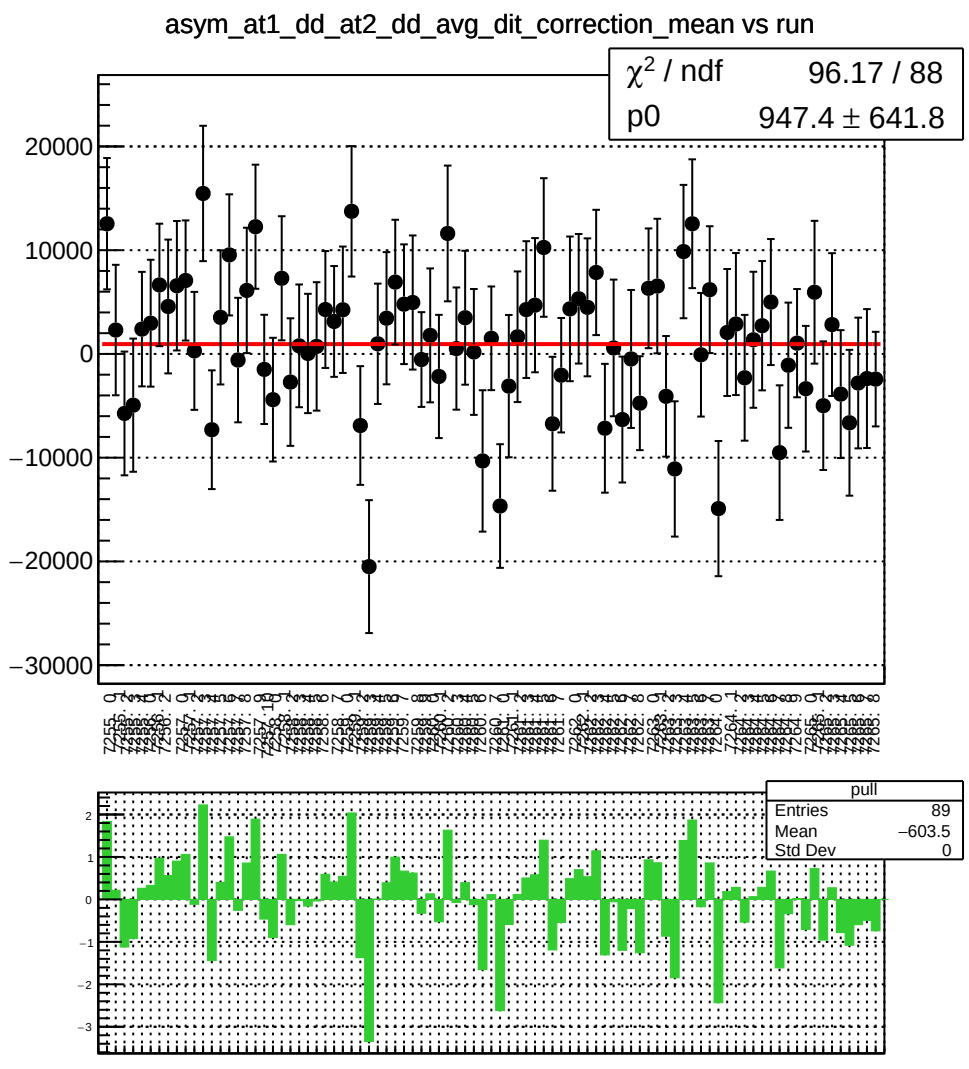

pull1D
Entries 89
Mean 0.00975
Std Dev 1.011

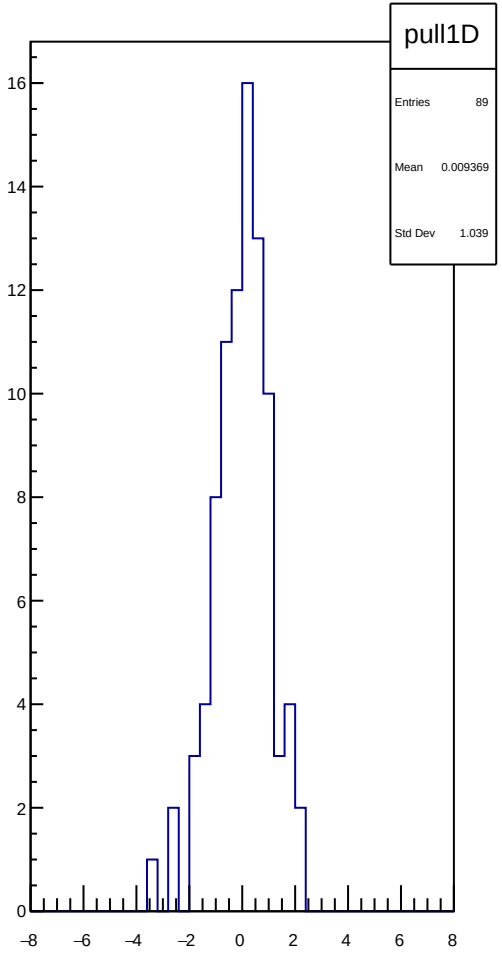

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8551 / 88
p0 496.4 ± 0.3823
600
580
560
540
520
500
480
460
440

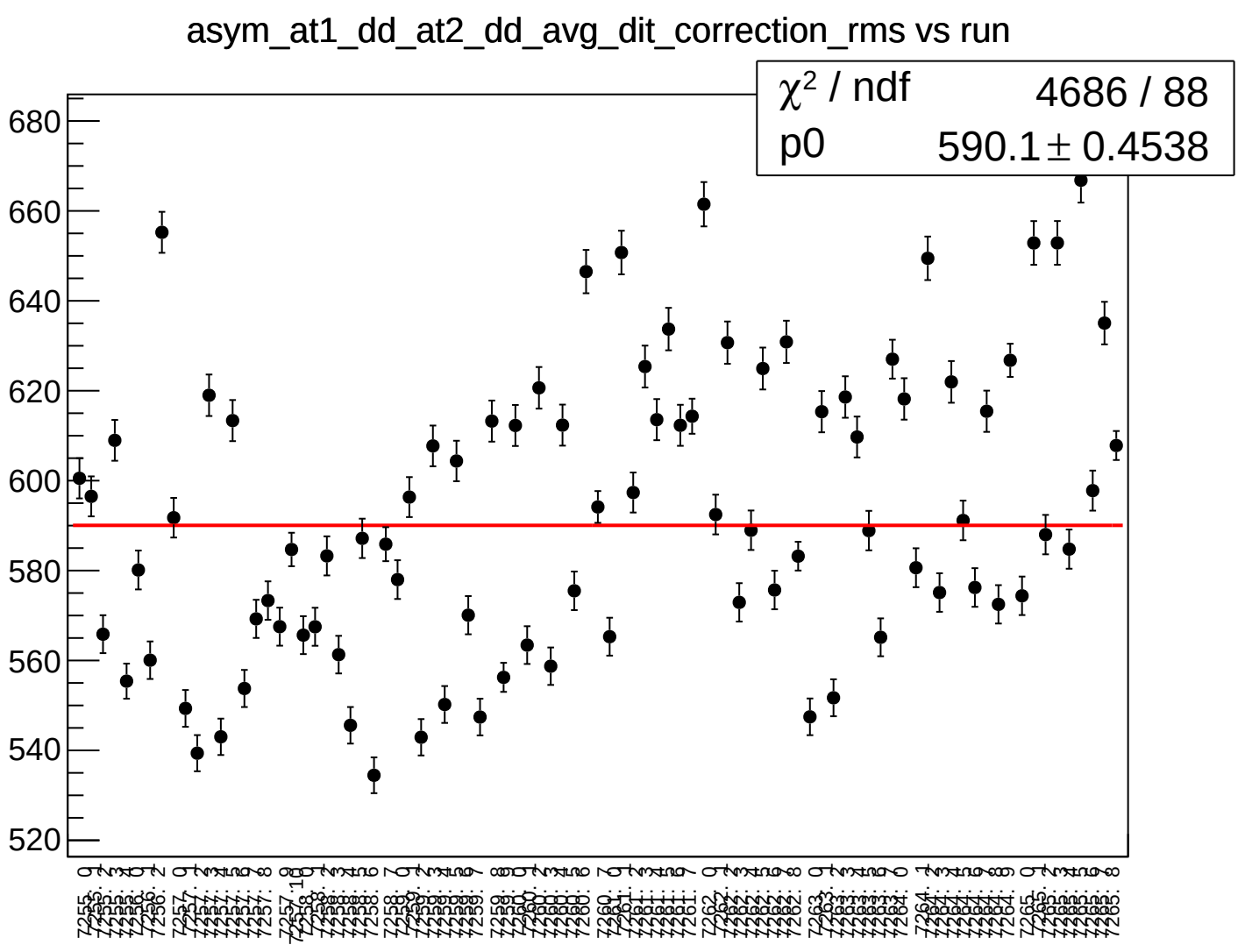

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 93.71 / 88
p0 −890.2 ± 1309
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −140.8
Std Dev 0
3
2
1
0
−1
−2

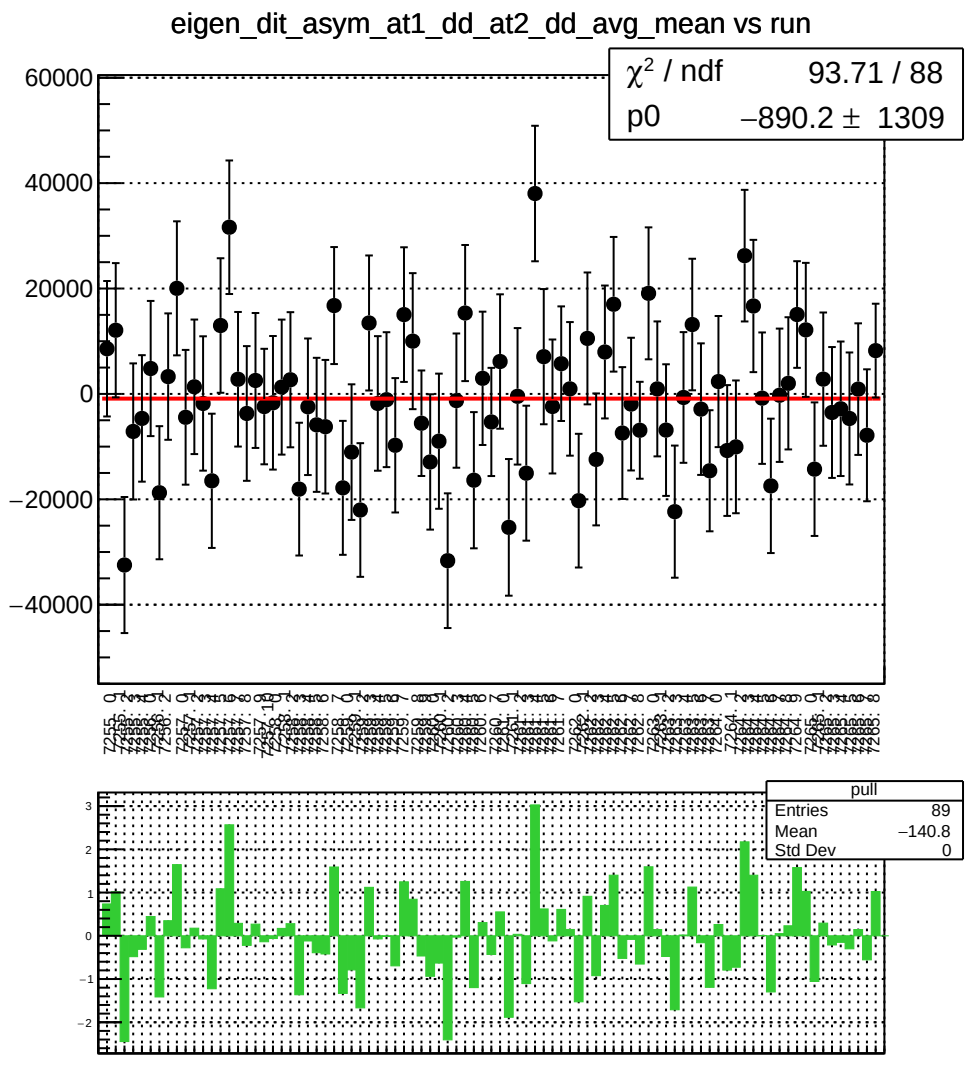

pull1D
Entries 89
Mean −0.00672
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

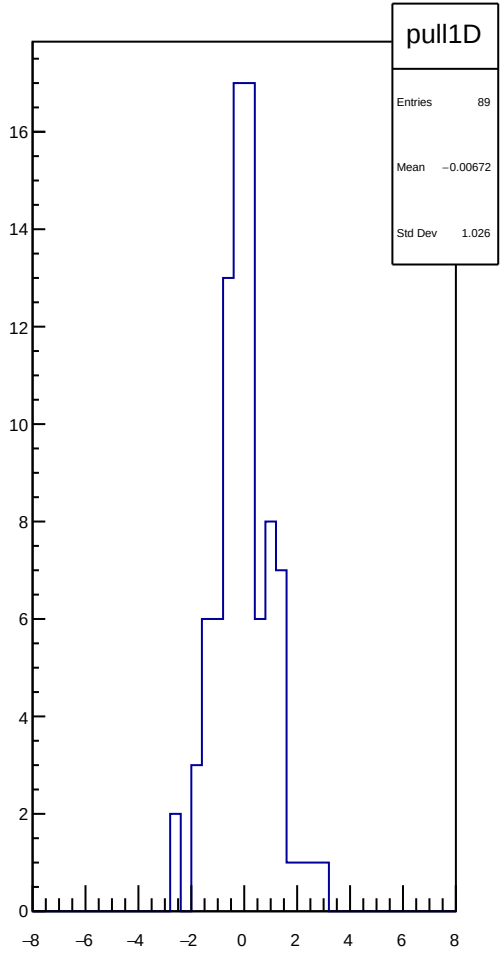

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 234.5 / 88
p0 1205 ± 0.9253
1240
1230
1220
1210
1200
1190
1180
1170

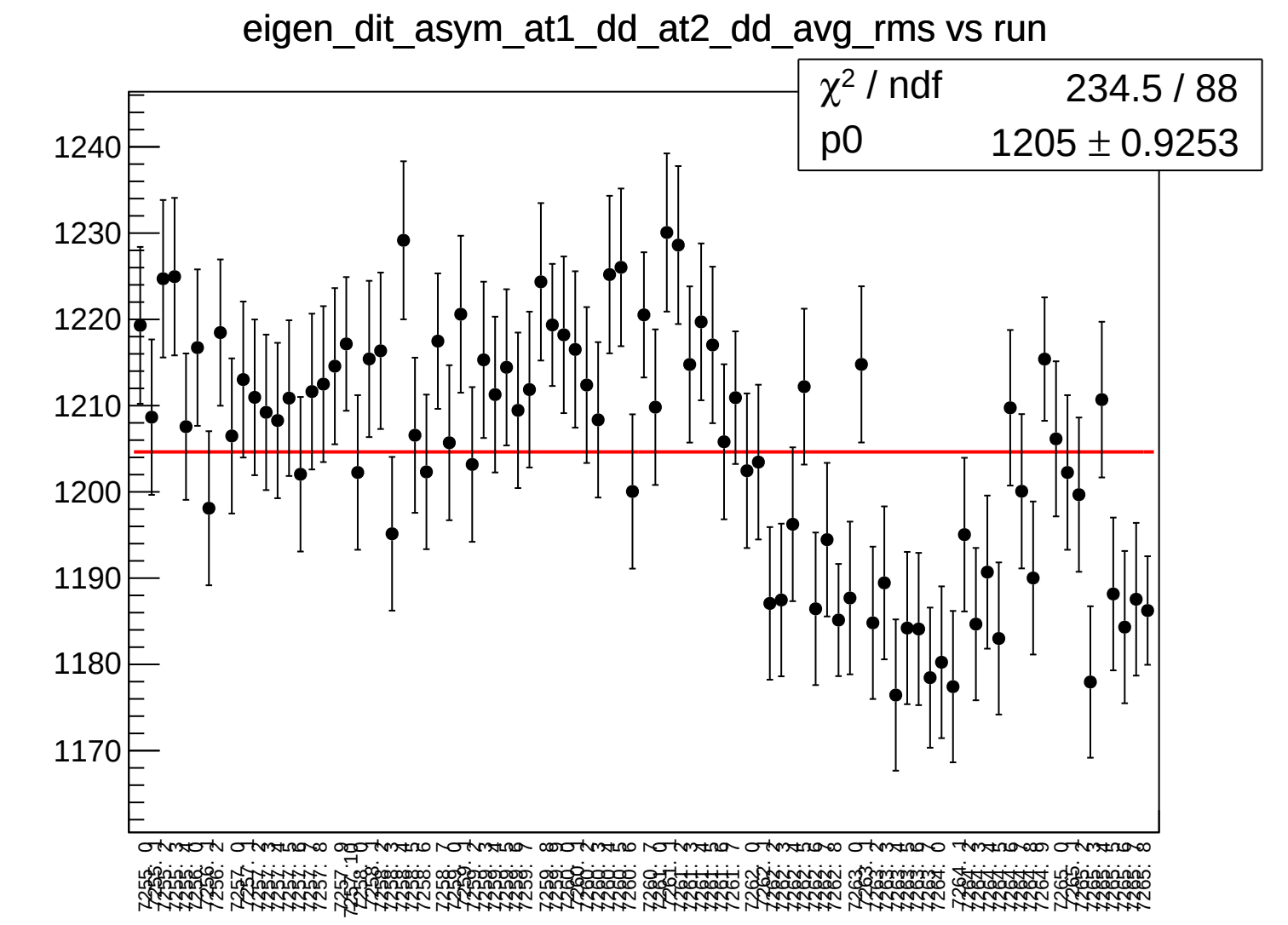

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 96.17 / 88
p0 947.4 ± 641.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −603.5
Std Dev 0
2
1
0
−1
−2
−3

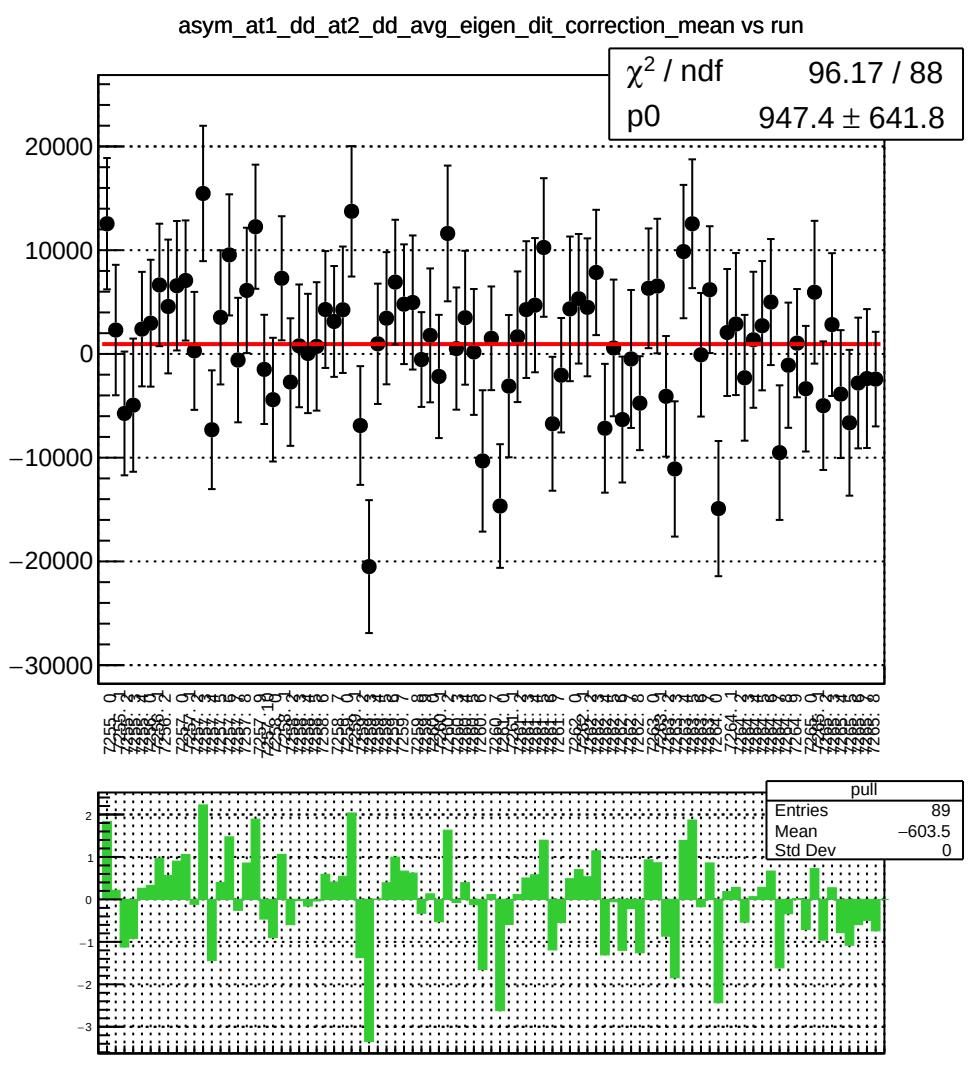

pull1D
Entries 89
Mean 0.009369
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

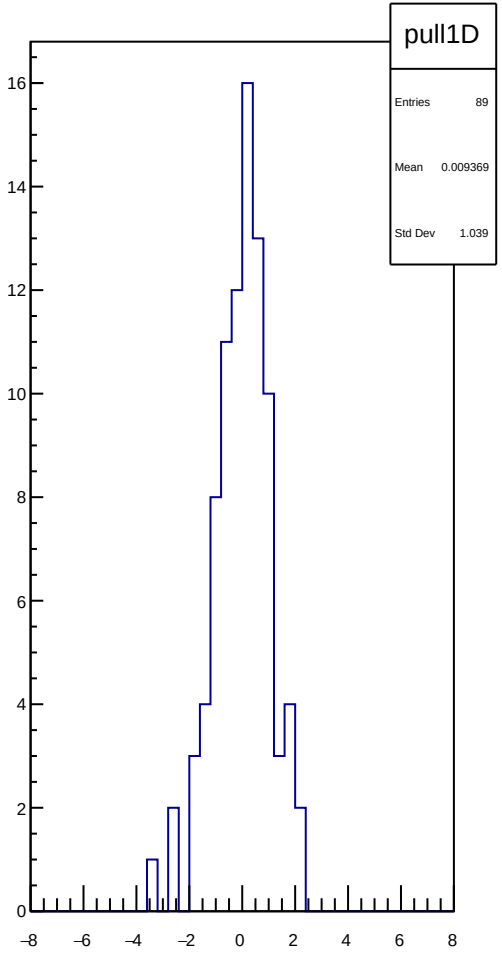

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 4686 / 88
p0 590.1 ± 0.4538
680
660
640
620
600
580
560
540
520

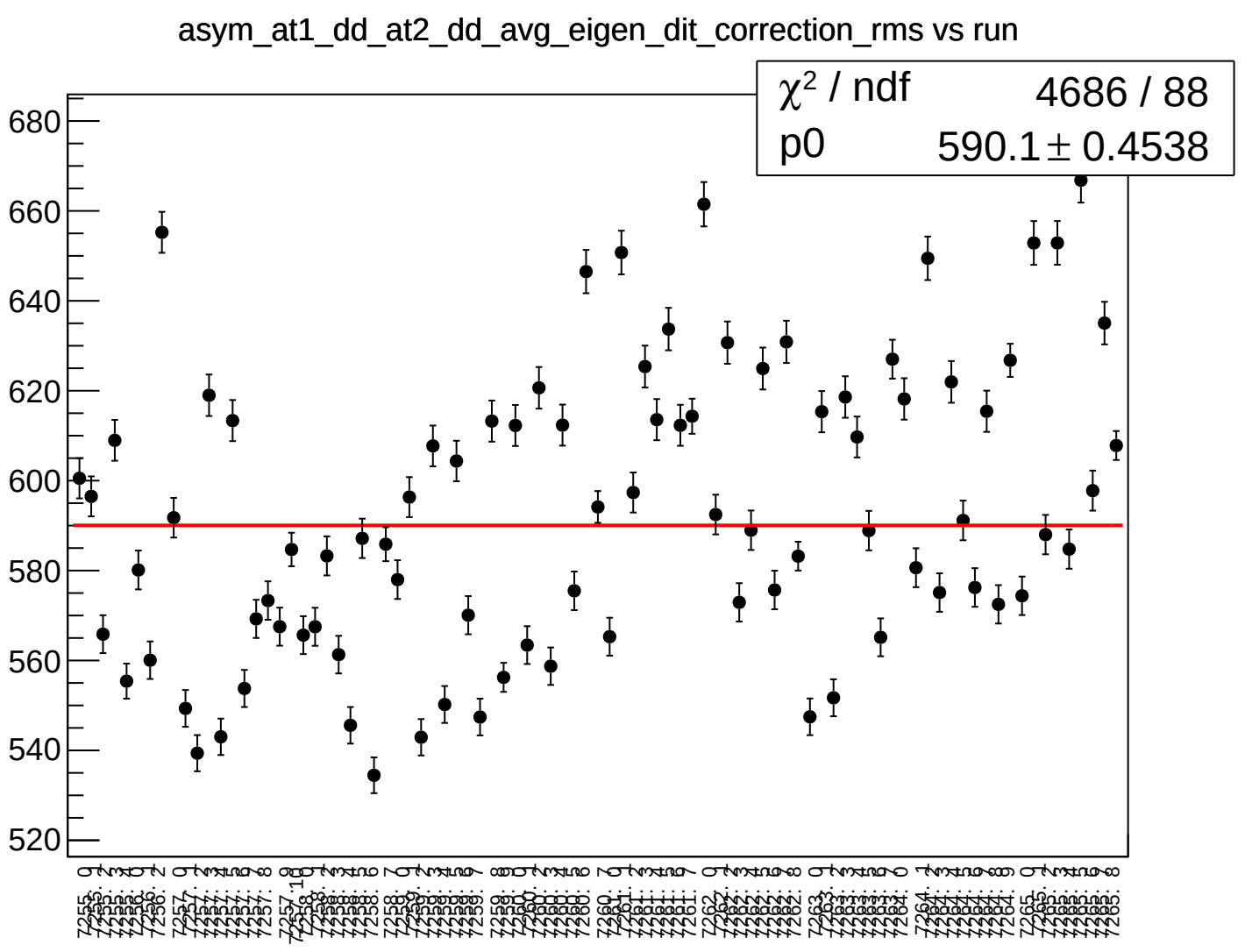

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 93.71 / 88
p0 −890.2 ± 1309
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −140.8
Std Dev 0
3
2
1
0
−1
−2

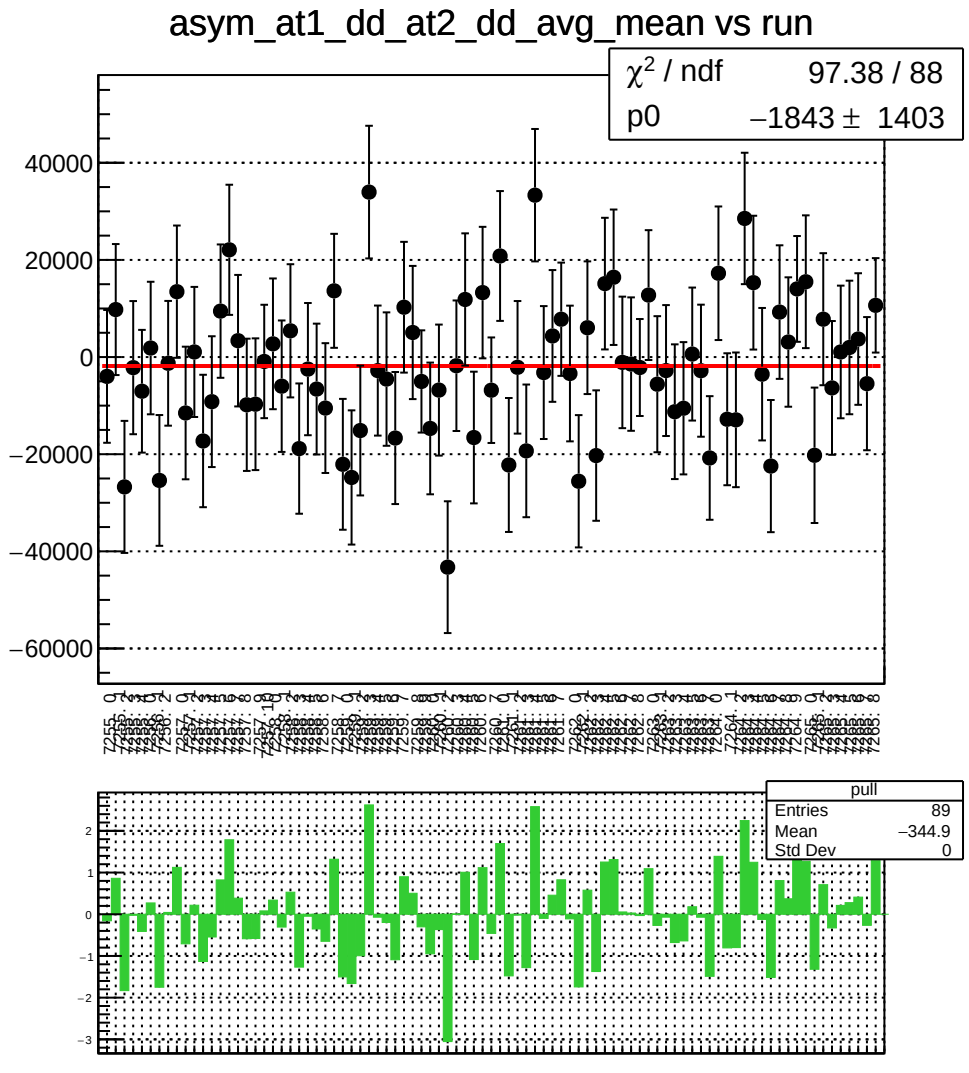

pull1D
Entries 89
Mean −0.00672
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

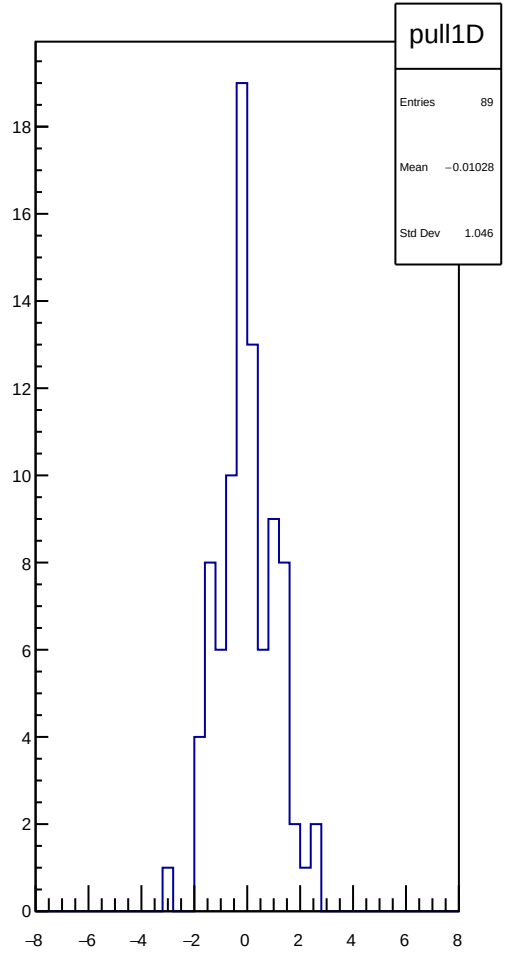

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 234.5 / 88
p0 1205 ± 0.9253
1240
1230
1220
1210
1200
1190
1180
1170

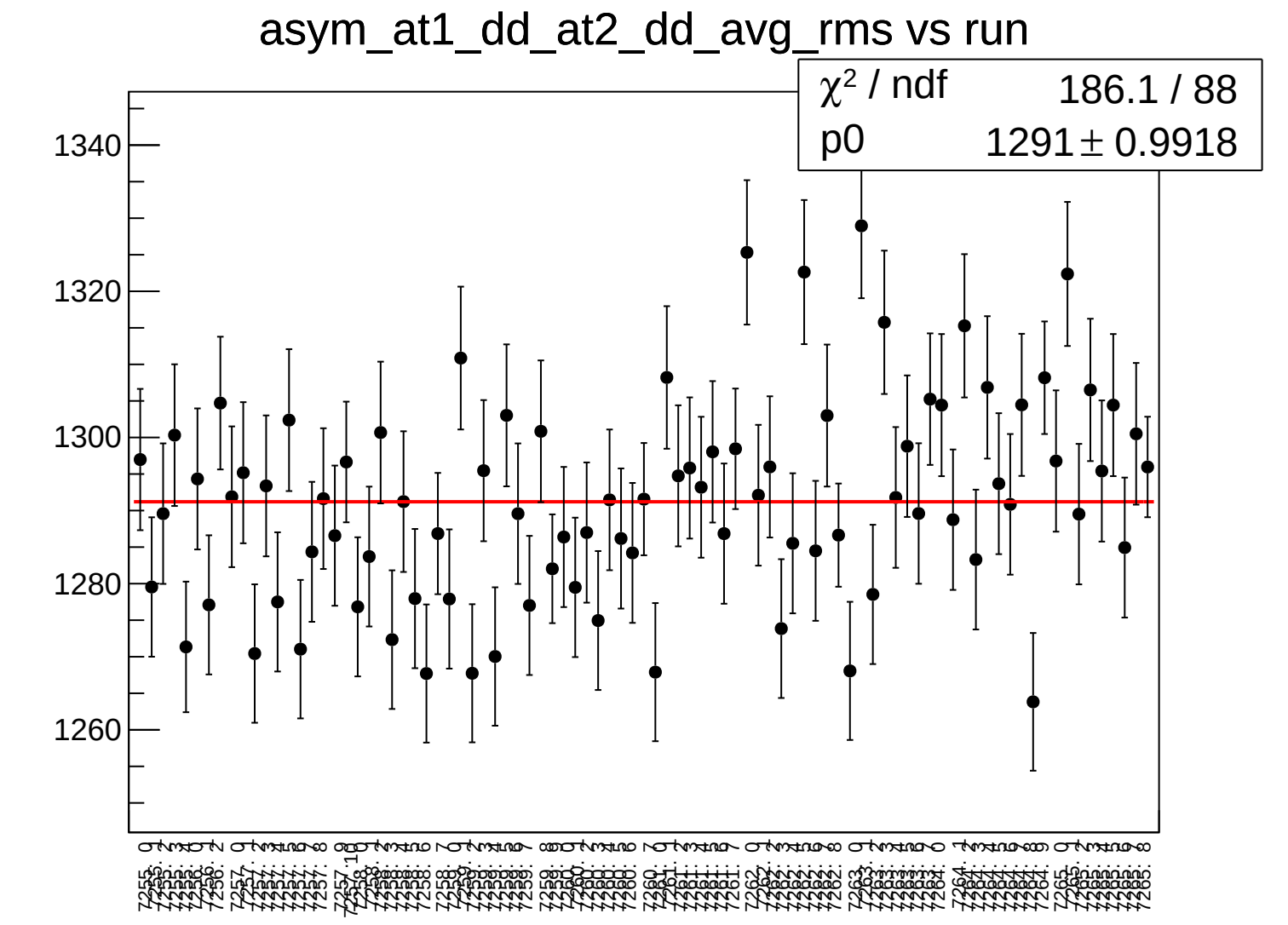

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.17 / 88
p0 947.4 ± 641.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −603.5
Std Dev 0
2
1
0
−1
−2
−3

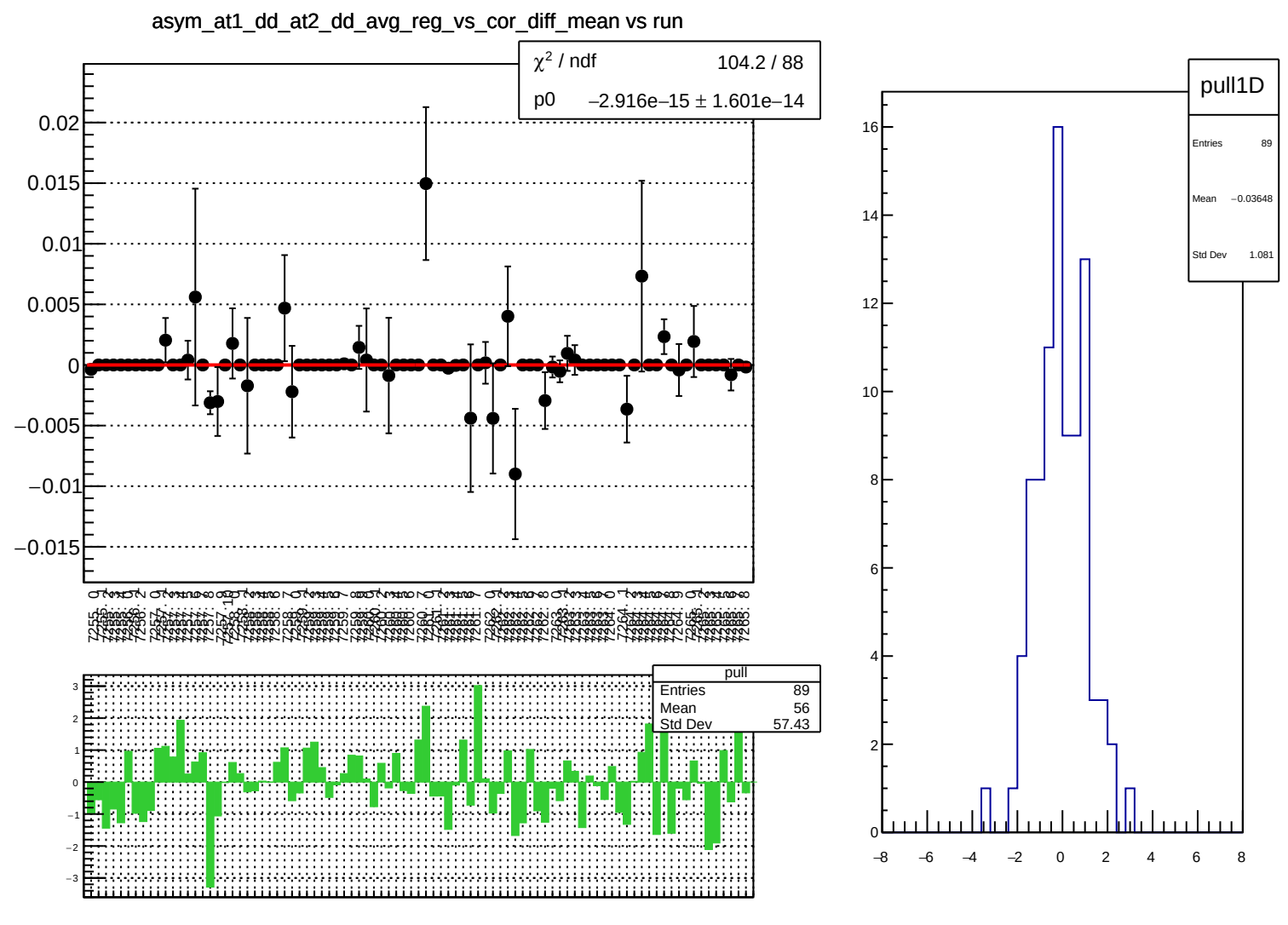

pull1D
Entries 89
Mean 0.009369
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

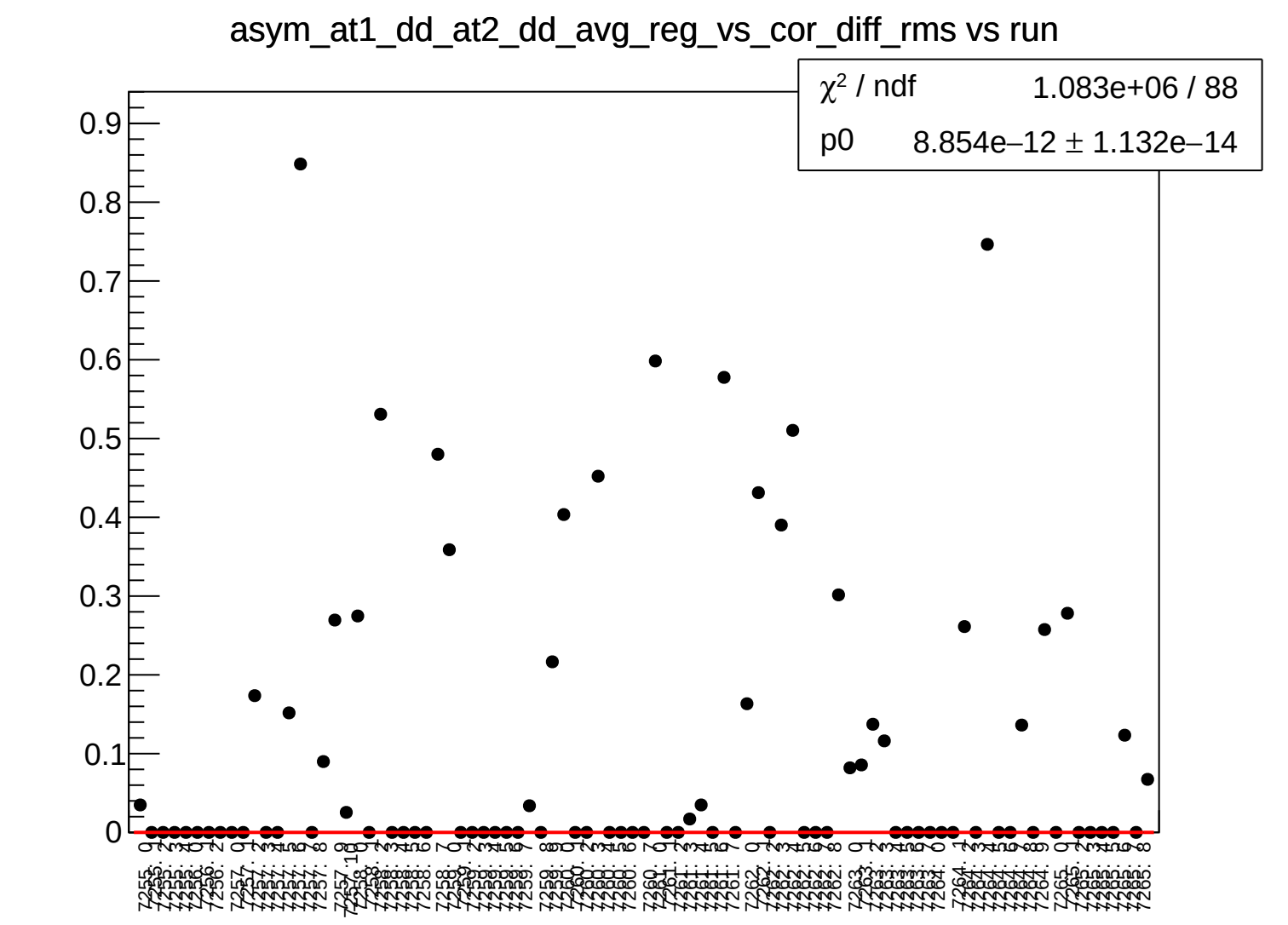

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4686 / 88
p0 590.1 ± 0.4538
680
660
640
620
600
580
560
540
520

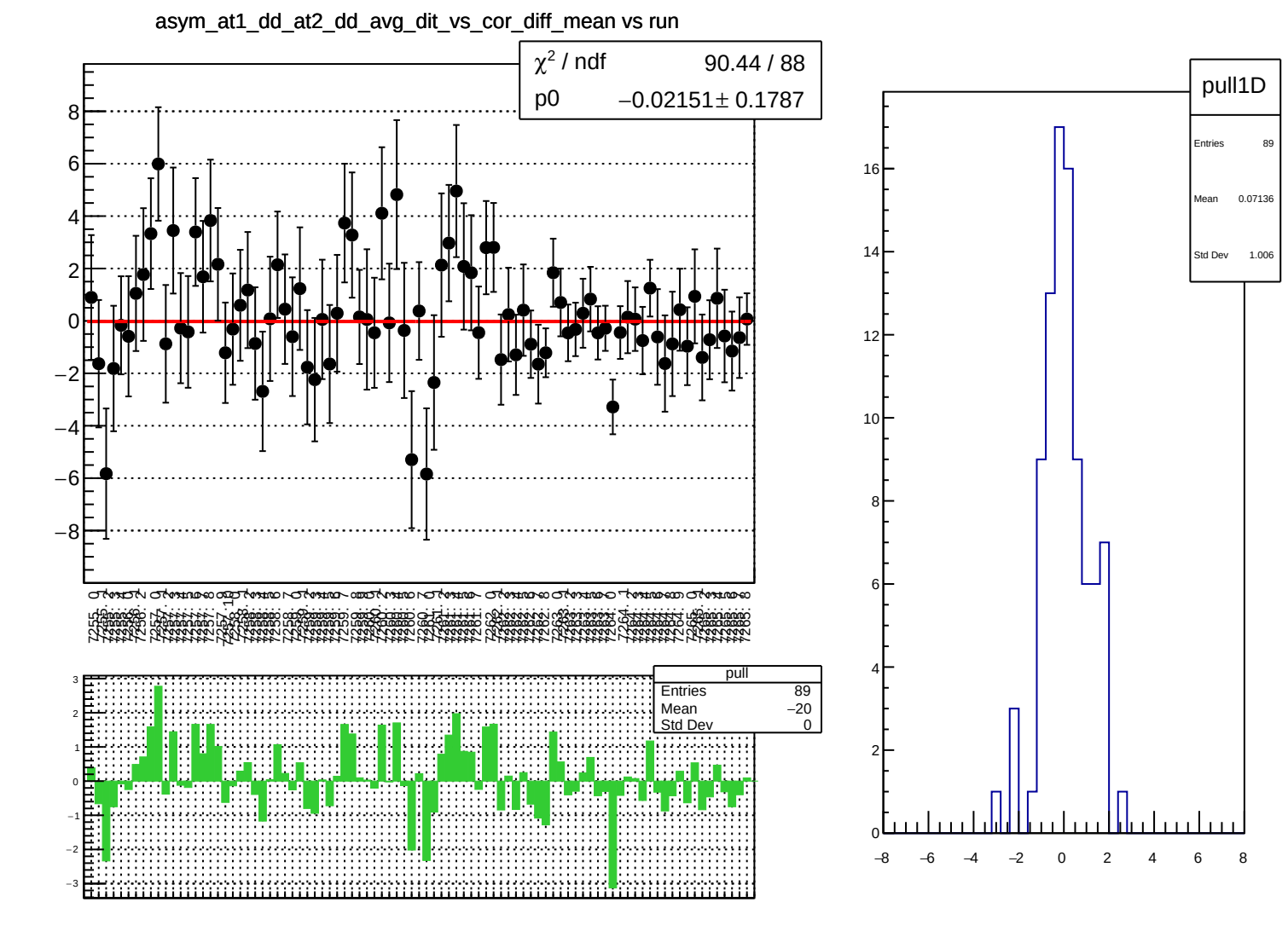

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 97.38 / 88
p0 −1843 ± 1403
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −344.9
Std Dev 0
2
1
0
−1
−2
−3

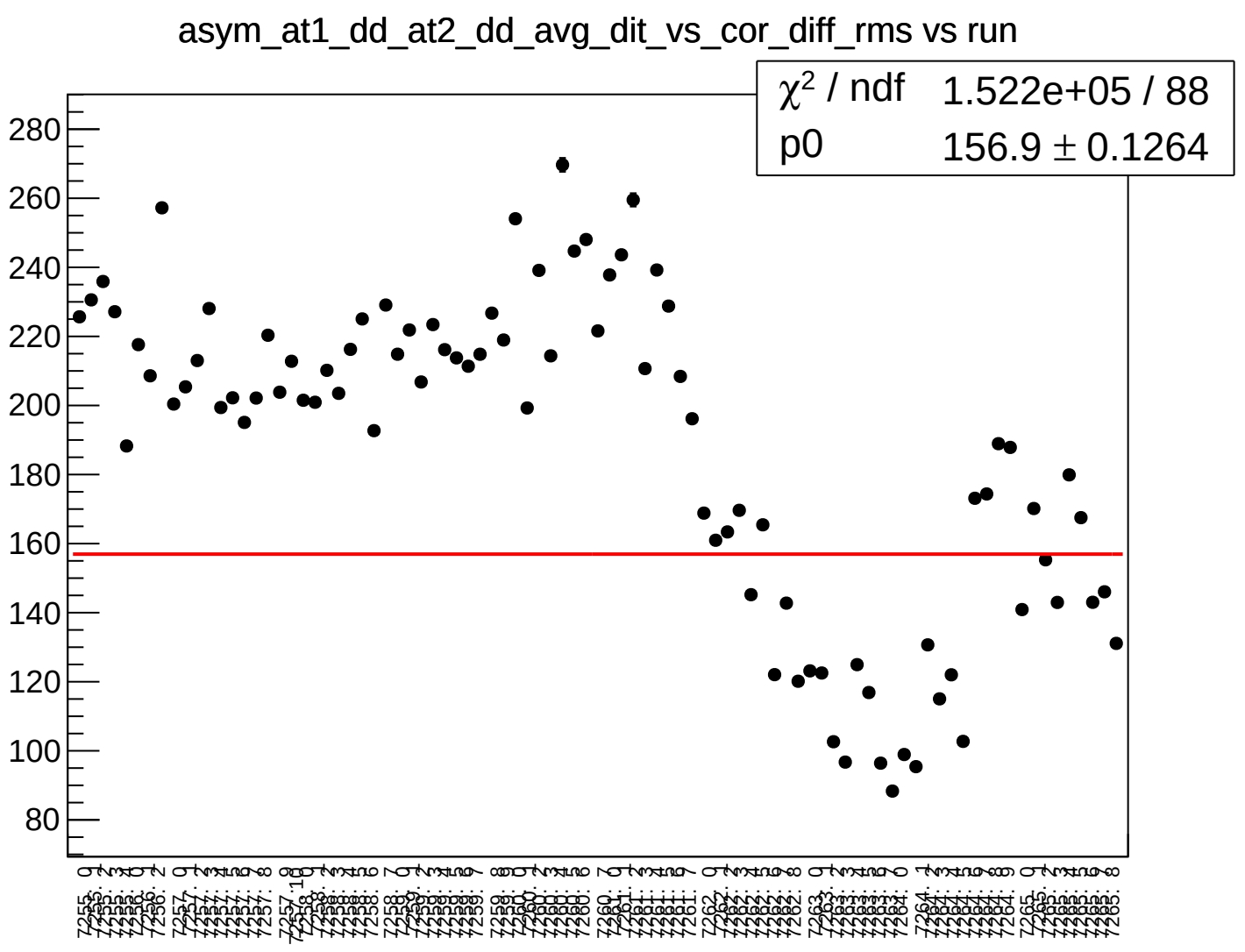

pull1D
Entries 89
Mean −0.01028
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

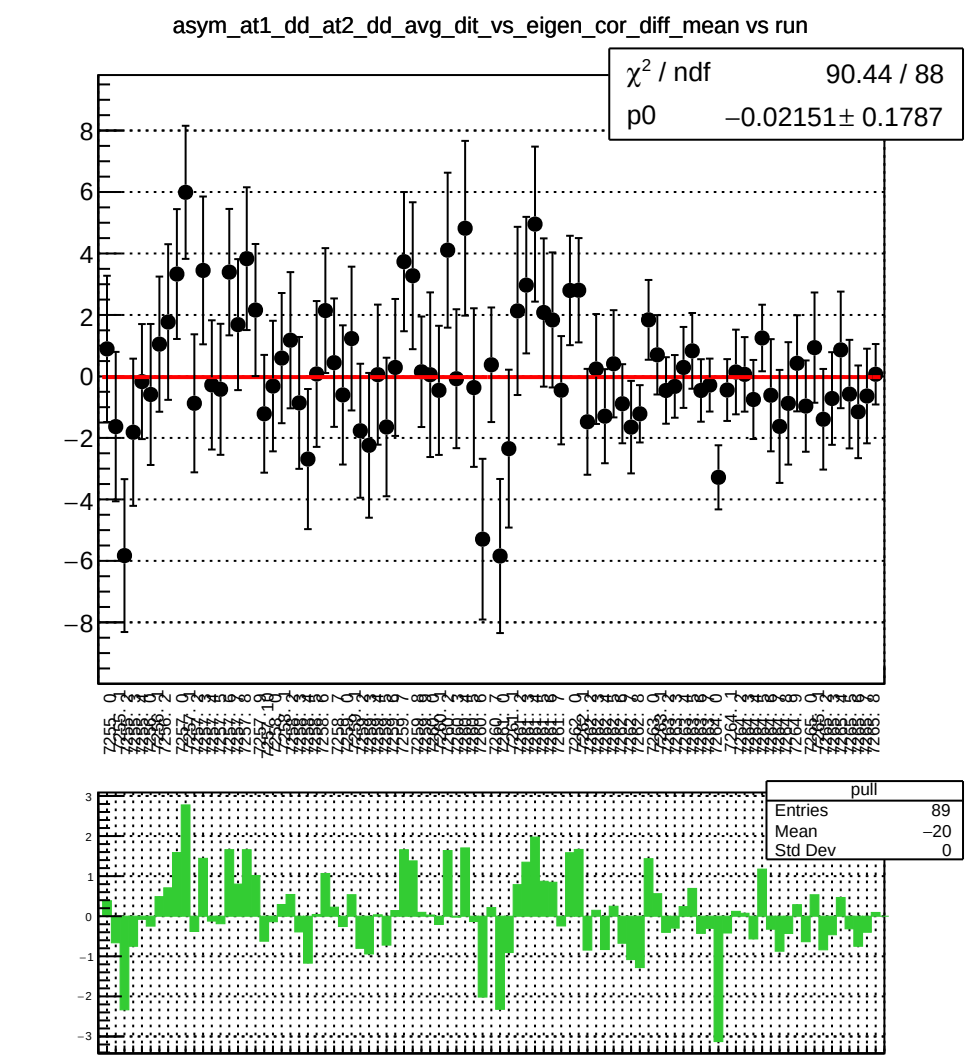

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 186.1 / 88
p0 1291 ± 0.9918
1340
1320
1300
1280
1260

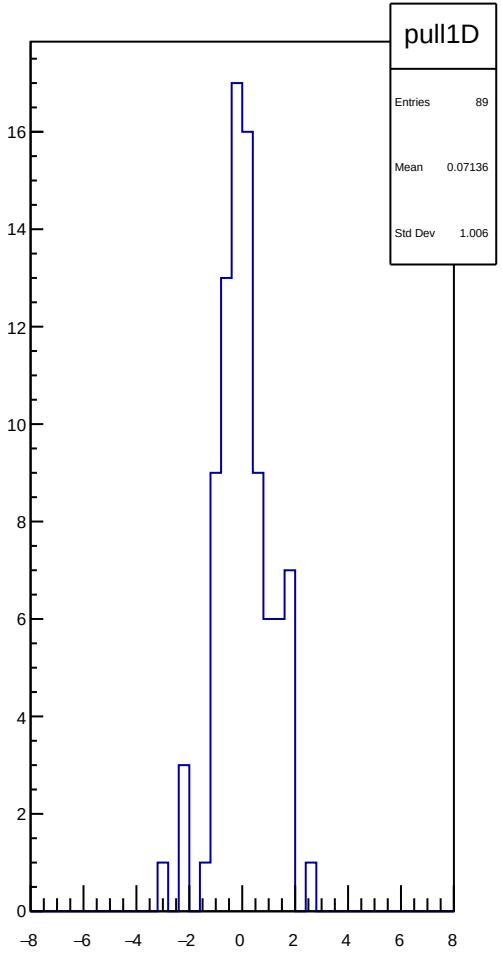

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 88
p0 −2.916e−15 ± 1.601e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 56
Std Dev 57.43
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.03648
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

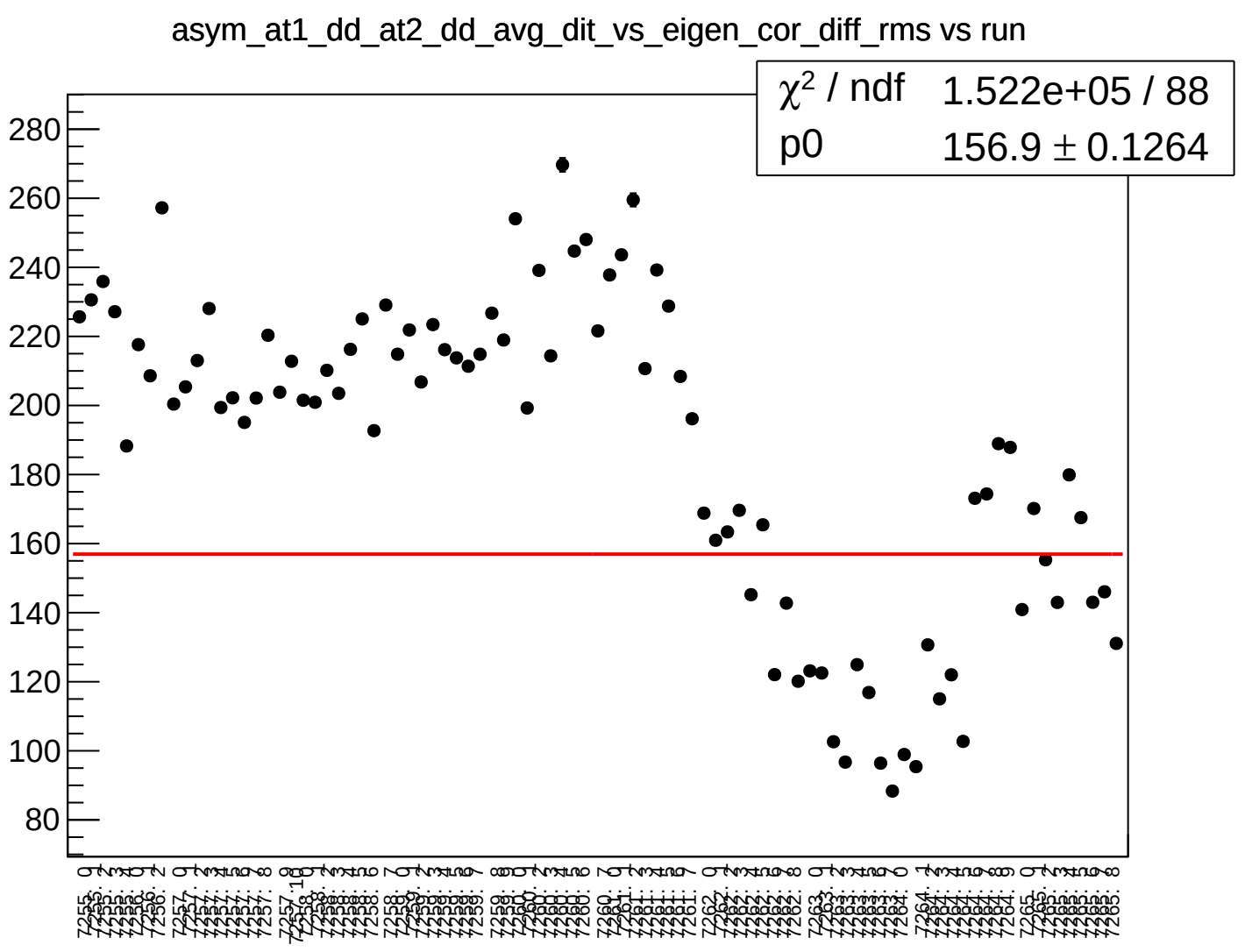

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.083e+06 / 88
p0 8.854e−12 ± 1.132e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

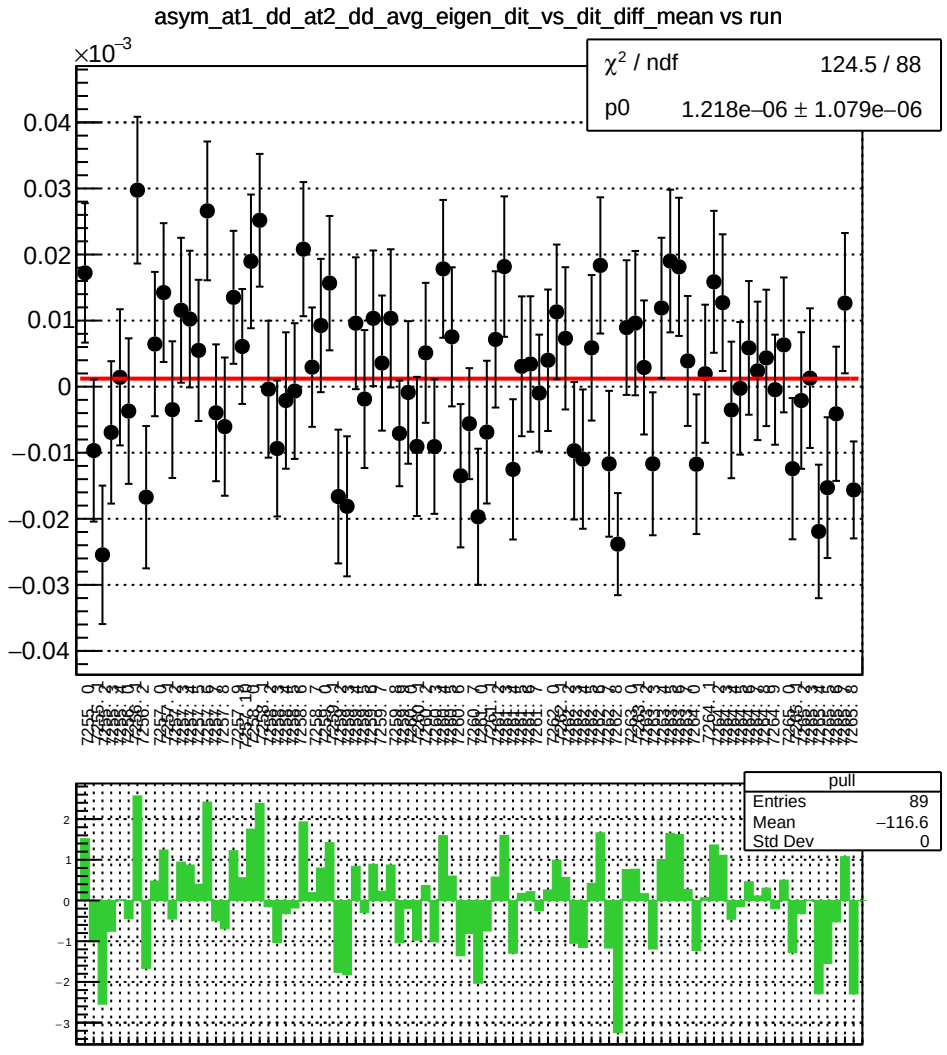

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.44 / 88
p0 −0.02151± 0.1787
pull
Entries 89
Mean −20
Std Dev 0
pull1D
Entries 89
Mean 0.07136
Std Dev 1.006

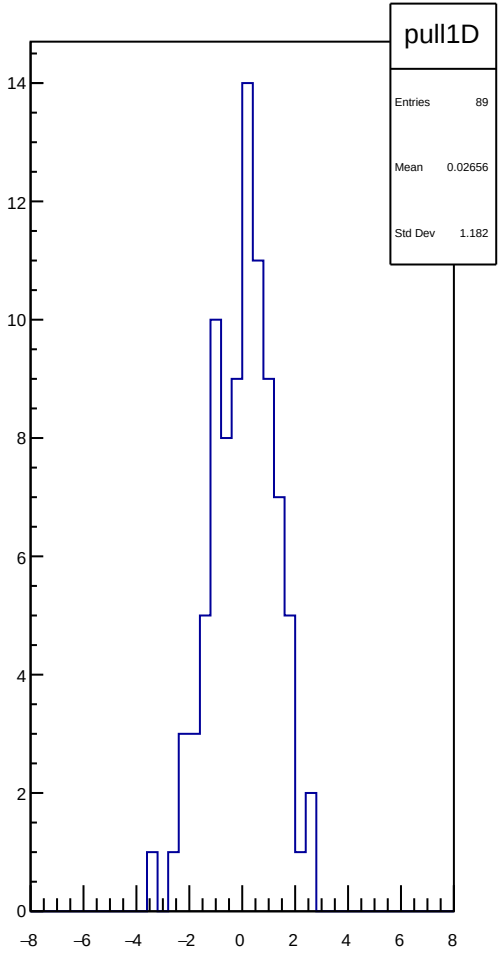

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.522e+05 / 88
p0 156.9 ± 0.1264
280
260
240
220
200
180
160
140
120
100
80

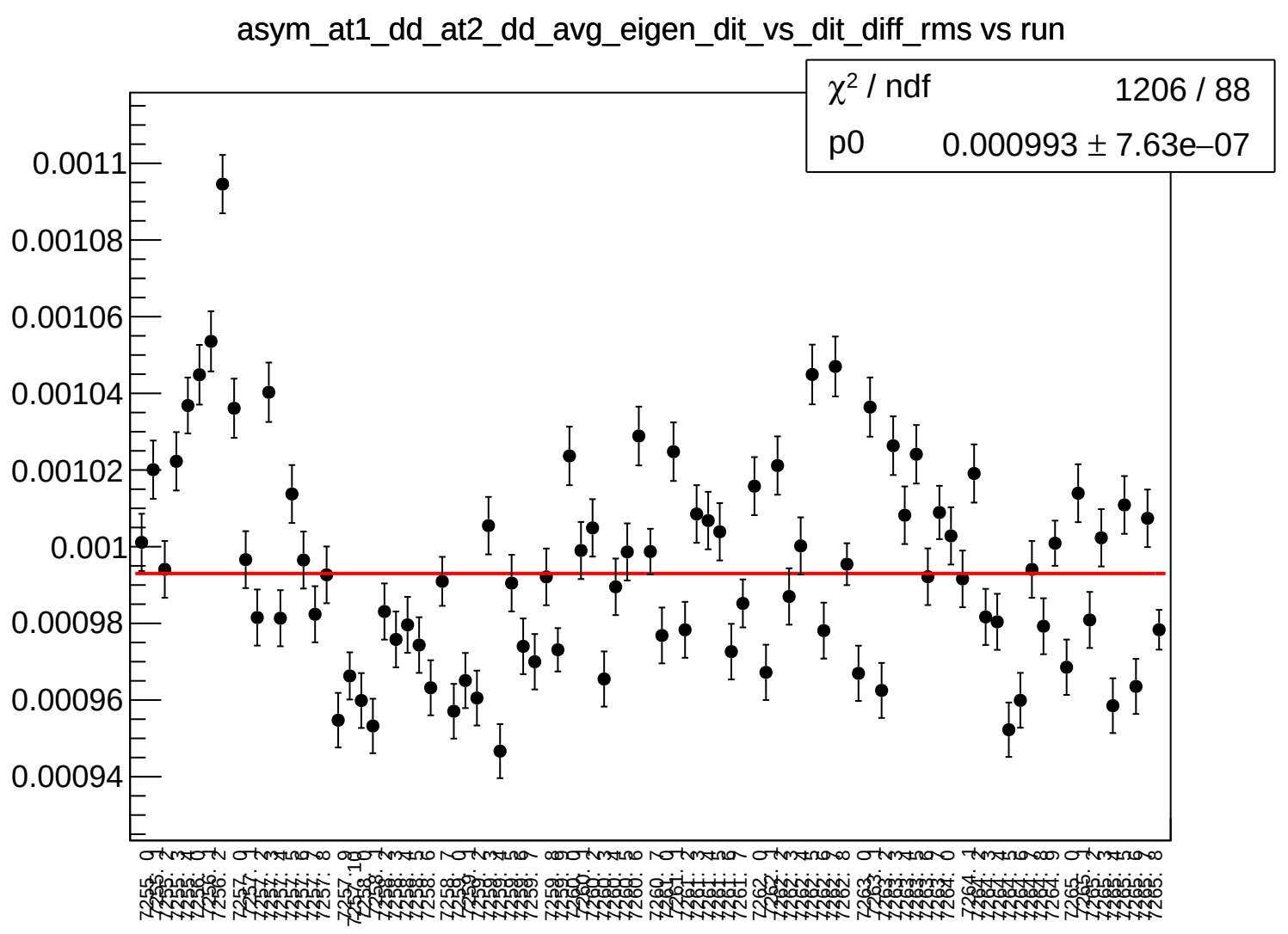

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.44 / 88
p0 −0.02151± 0.1787
pull
Entries 89
Mean −20
Std Dev 0

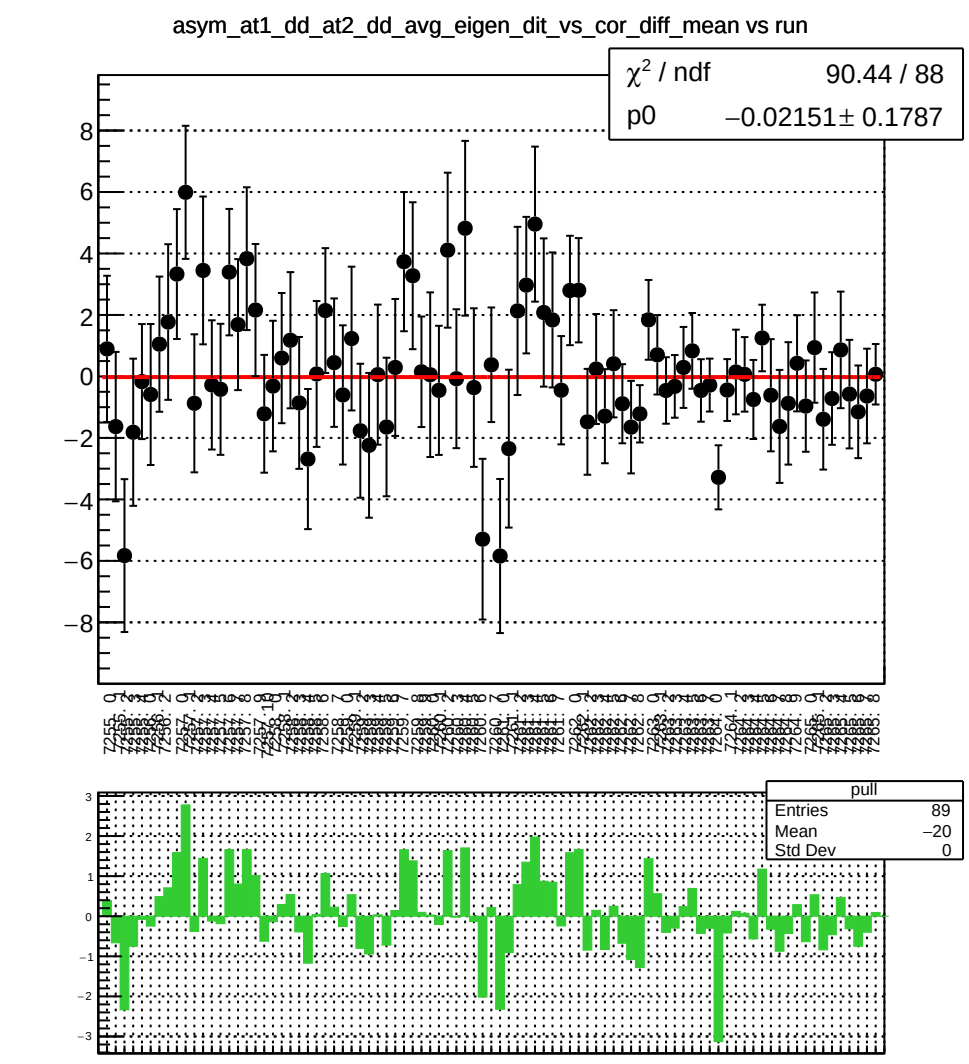

pull1D
Entries 89
Mean 0.07136
Std Dev 1.006

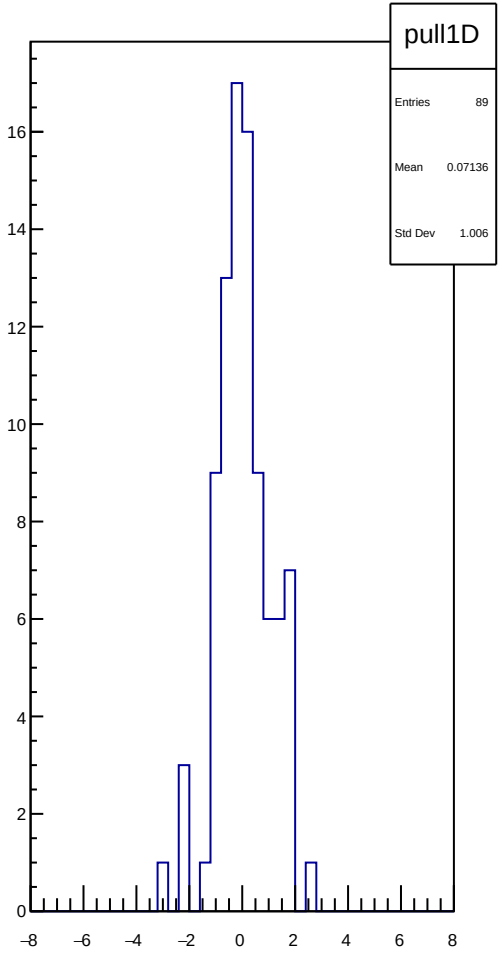

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.522e+05 / 88
p0 156.9 ± 0.1264
280
260
240
220
200
180
160
140
120
100
80

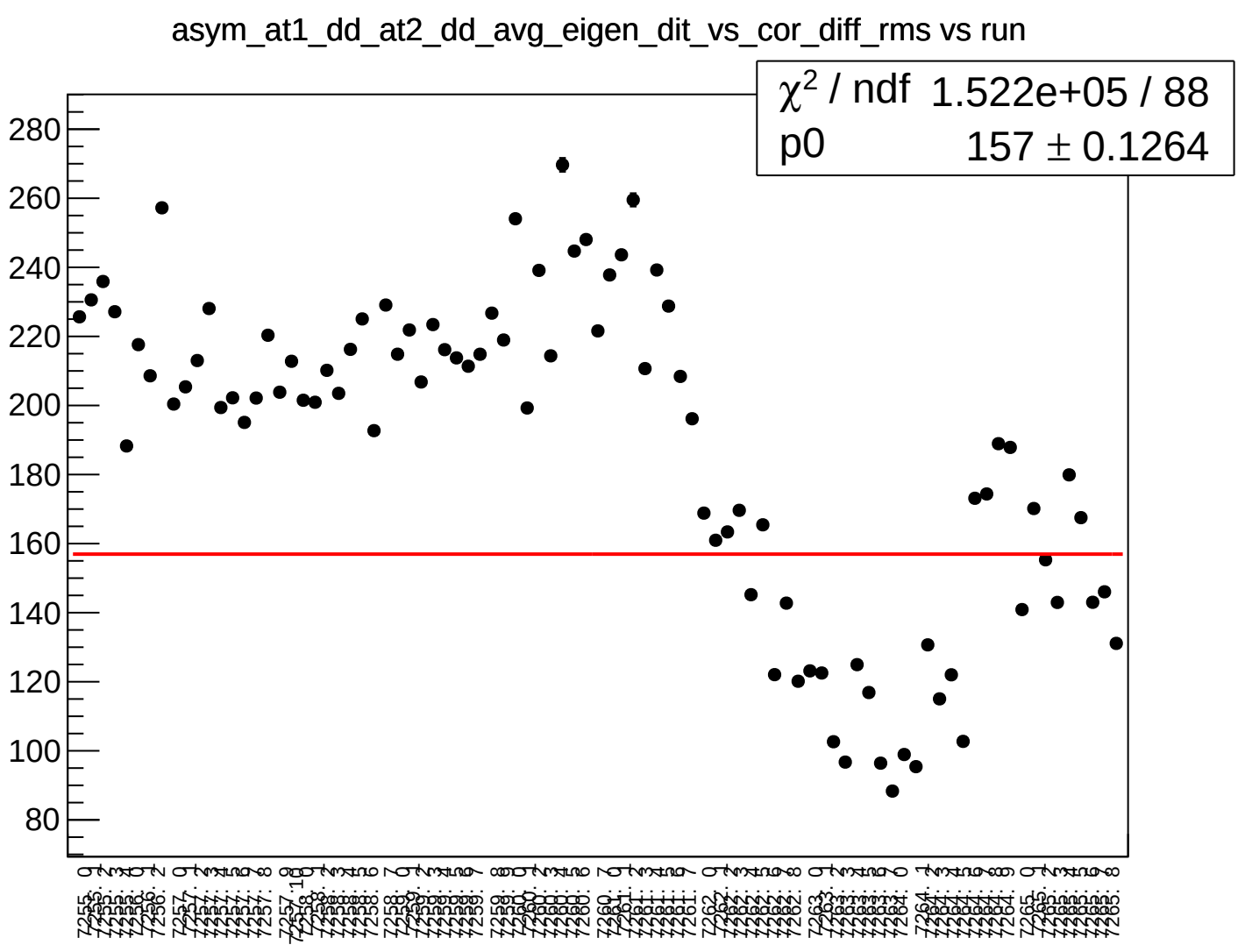

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 124.5 / 88
p0 1.218e−06 ± 1.079e−06
pull
Entries 89
Mean −116.6
Std Dev 0

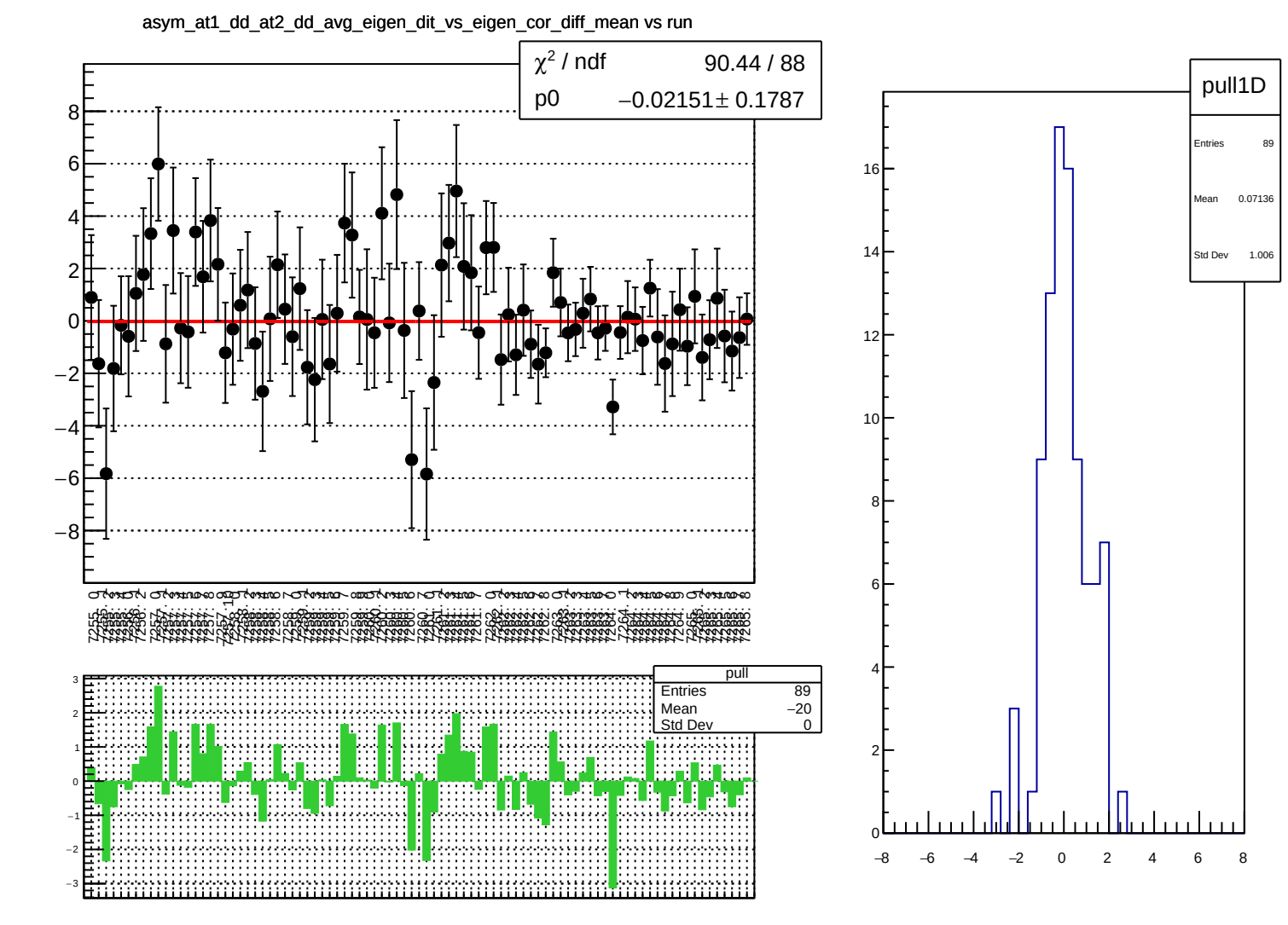

pull1D
Entries 89
Mean 0.02656
Std Dev 1.182

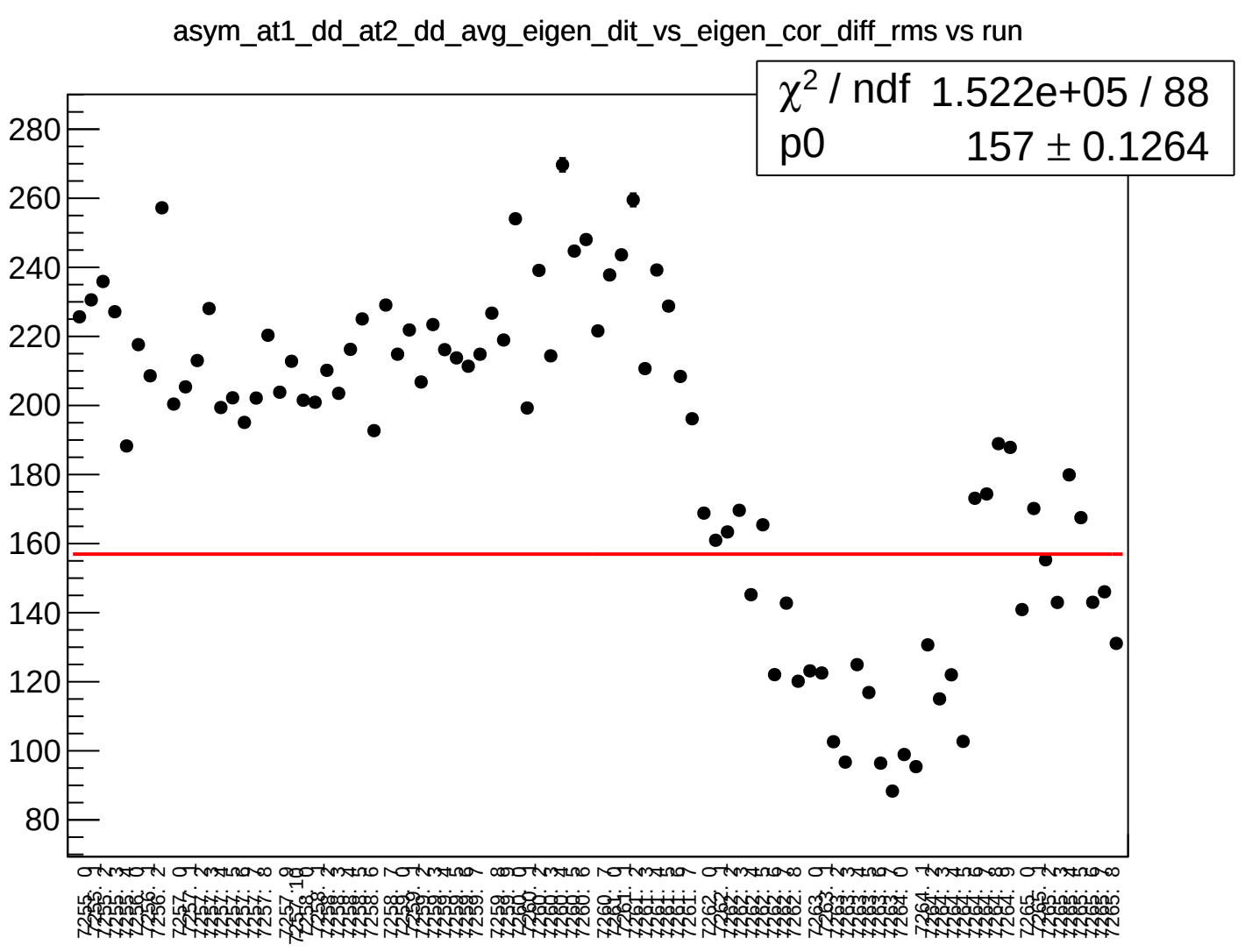

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1206 / 88
p0 0.000993 ± 7.63e–07
0.0011
0.00108
0.00106
0.00104
0.00102
0.001
0.00098
0.00096
0.00094

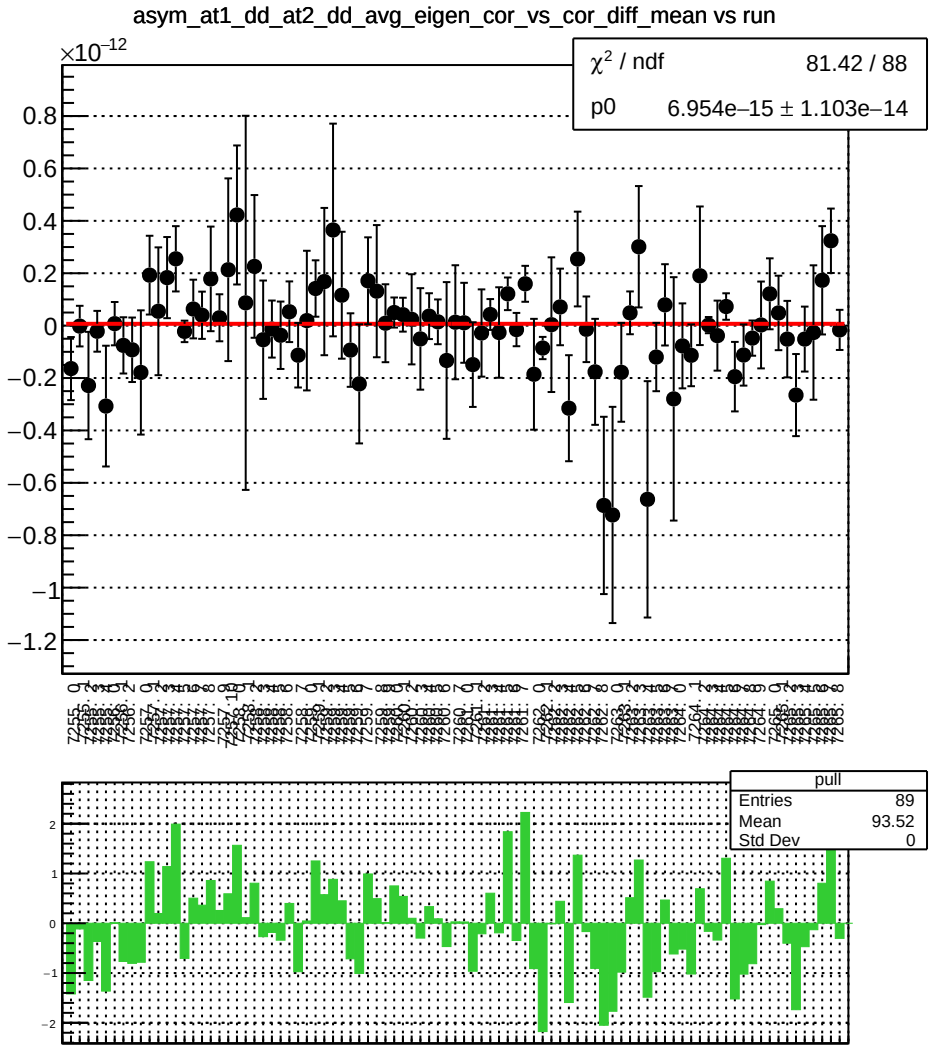

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.44 / 88
p0 −0.02151± 0.1787
pull
Entries 89
Mean −20
Std Dev 0

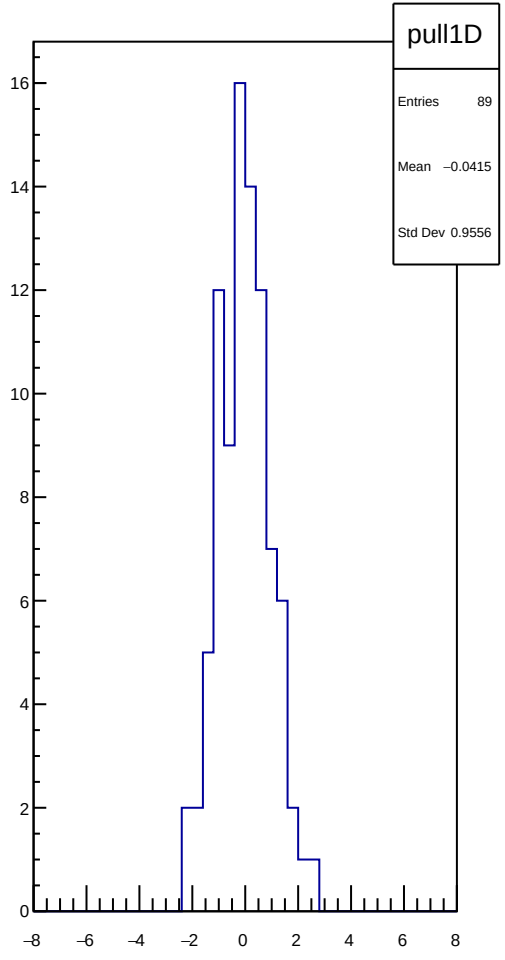

pull1D
Entries 89
Mean 0.07136
Std Dev 1.006

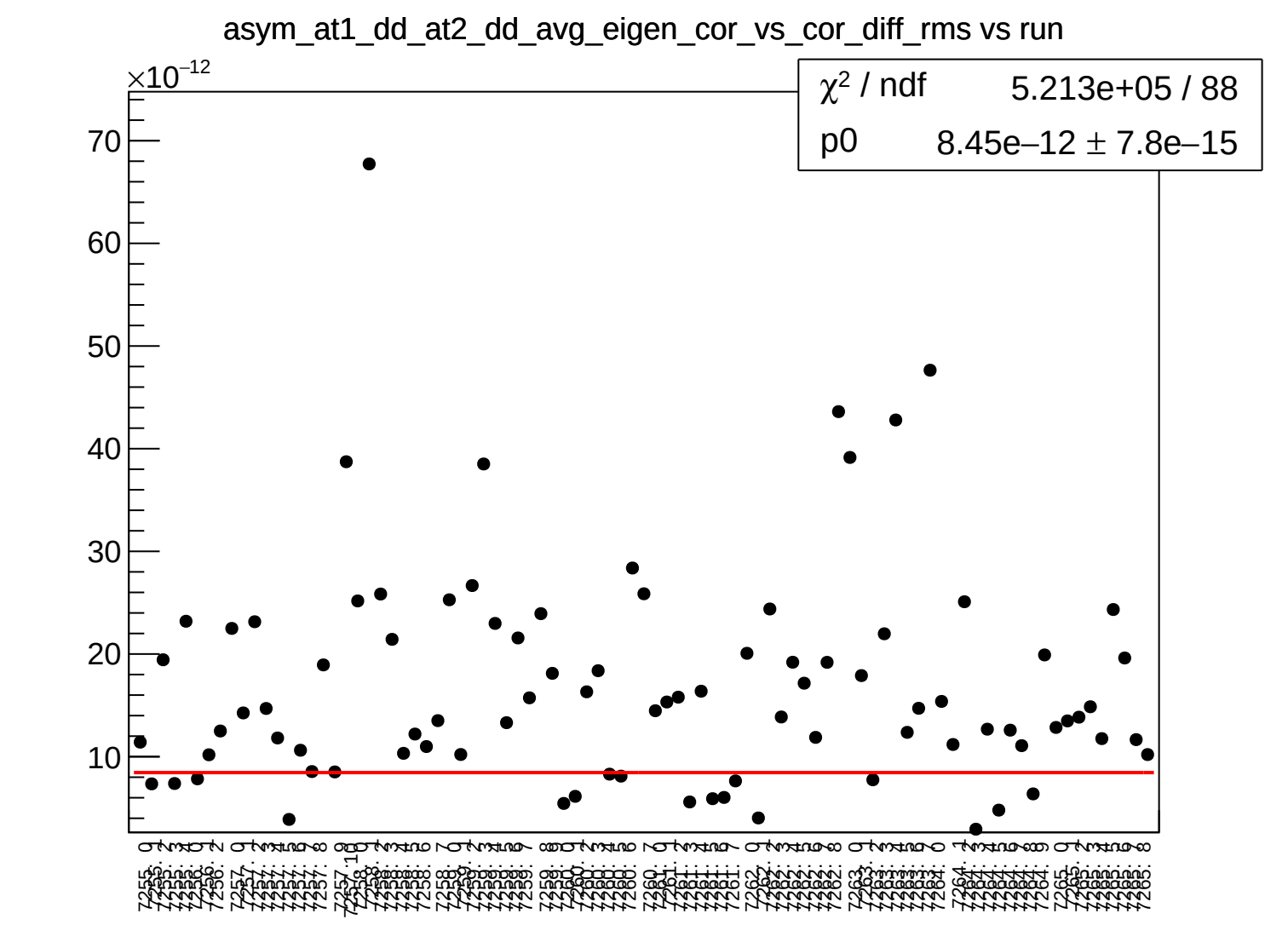

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.522e+05 / 88
p0 157 ± 0.1264
280
260
240
220
200
180
160
140
120
100
80

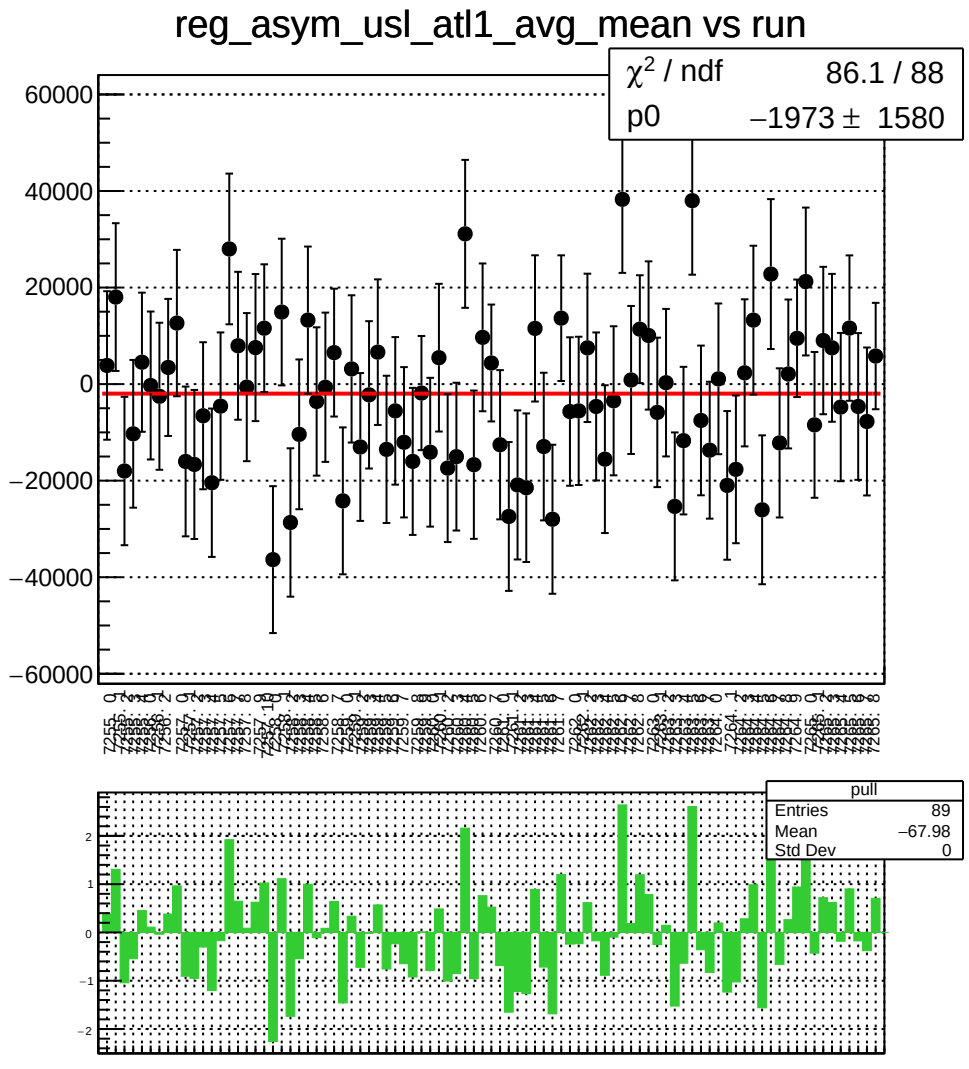

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.44 / 88
p0 −0.02151± 0.1787
pull
Entries 89
Mean −20
Std Dev 0
pull1D
Entries 89
Mean 0.07136
Std Dev 1.006

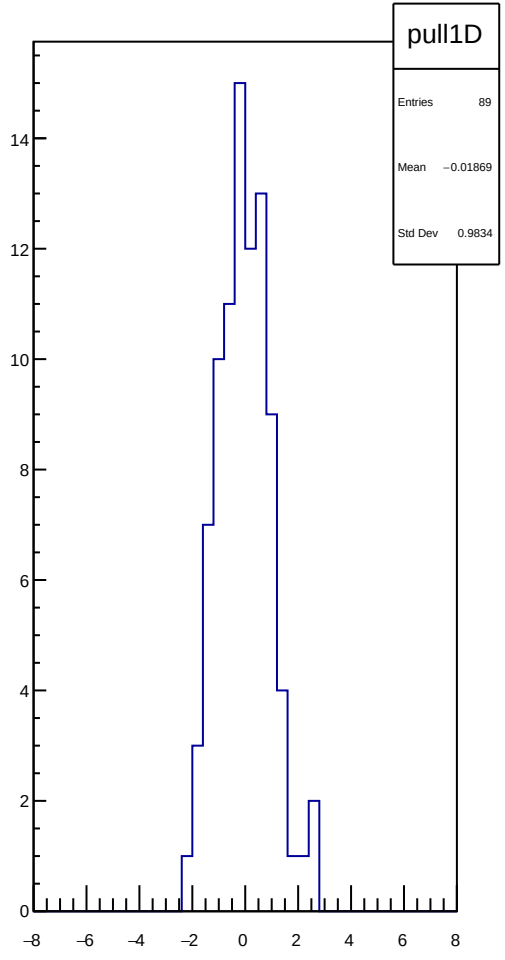

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.522e+05 / 88
p0 157 ± 0.1264
280
260
240
220
200
180
160
140
120
100
80

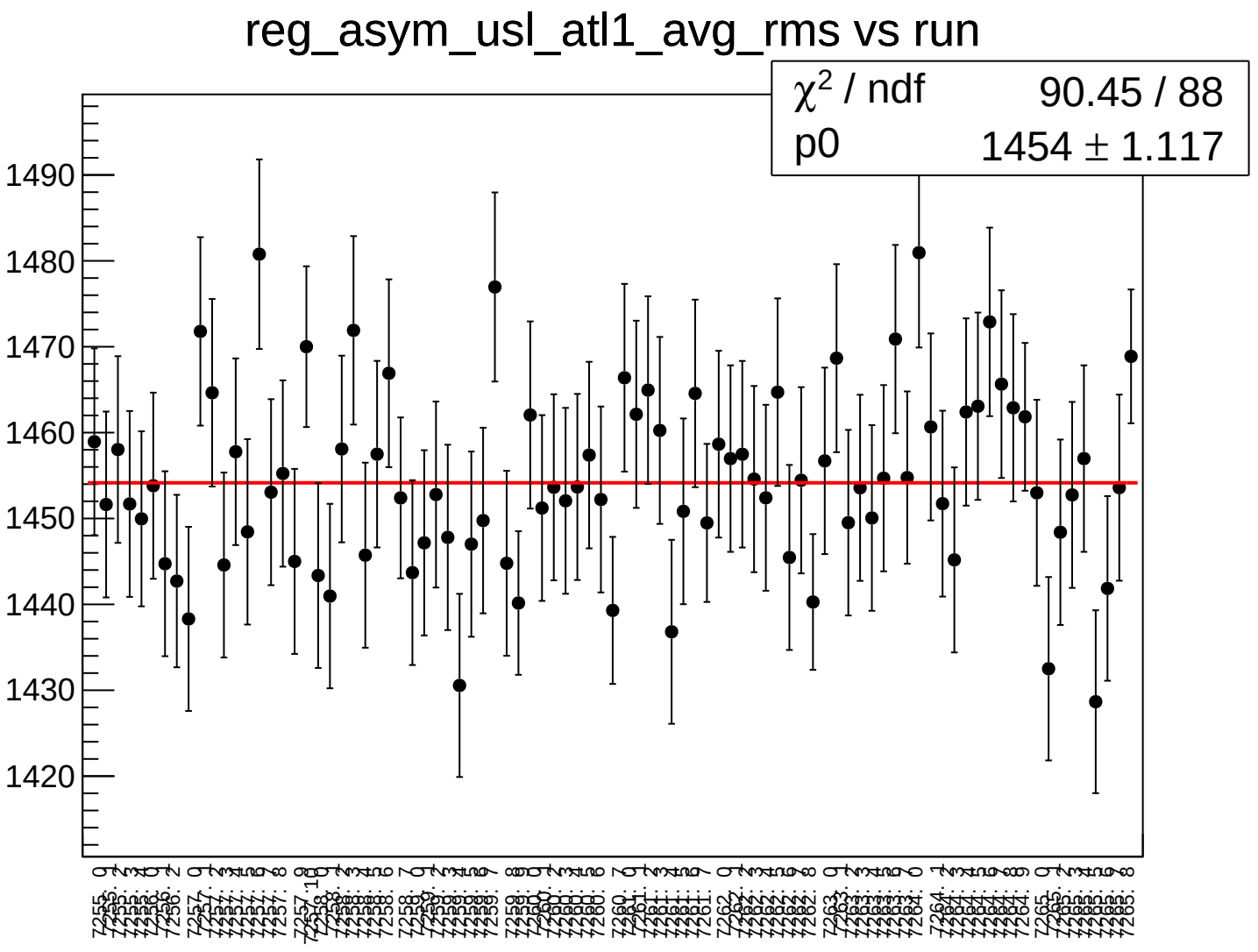

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.42 / 88
p0 6.954e−15 ± 1.103e−14
pull
Entries 89
Mean 93.52
Std Dev 0

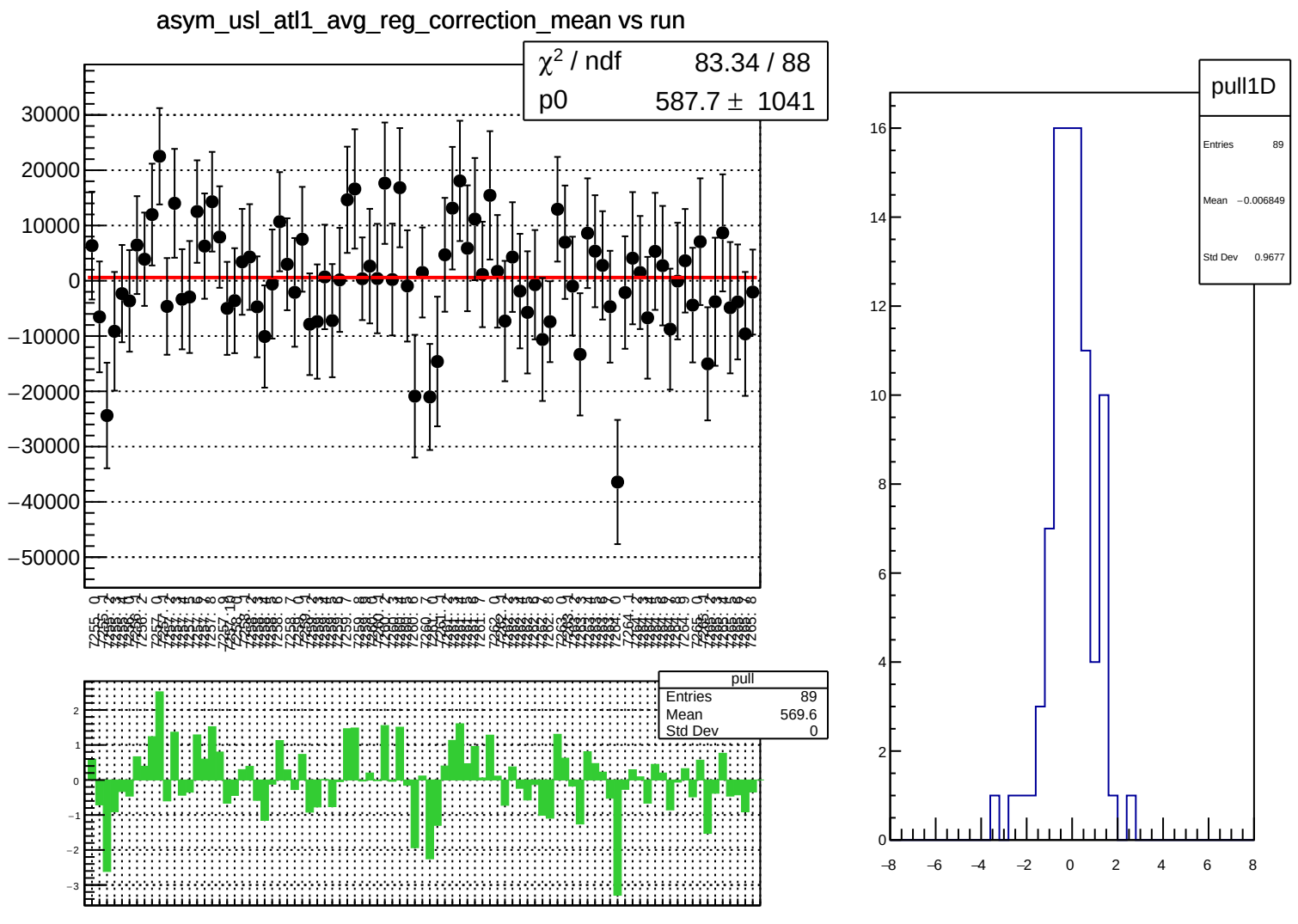

pull1D
Entries 89
Mean −0.0415
Std Dev 0.9556

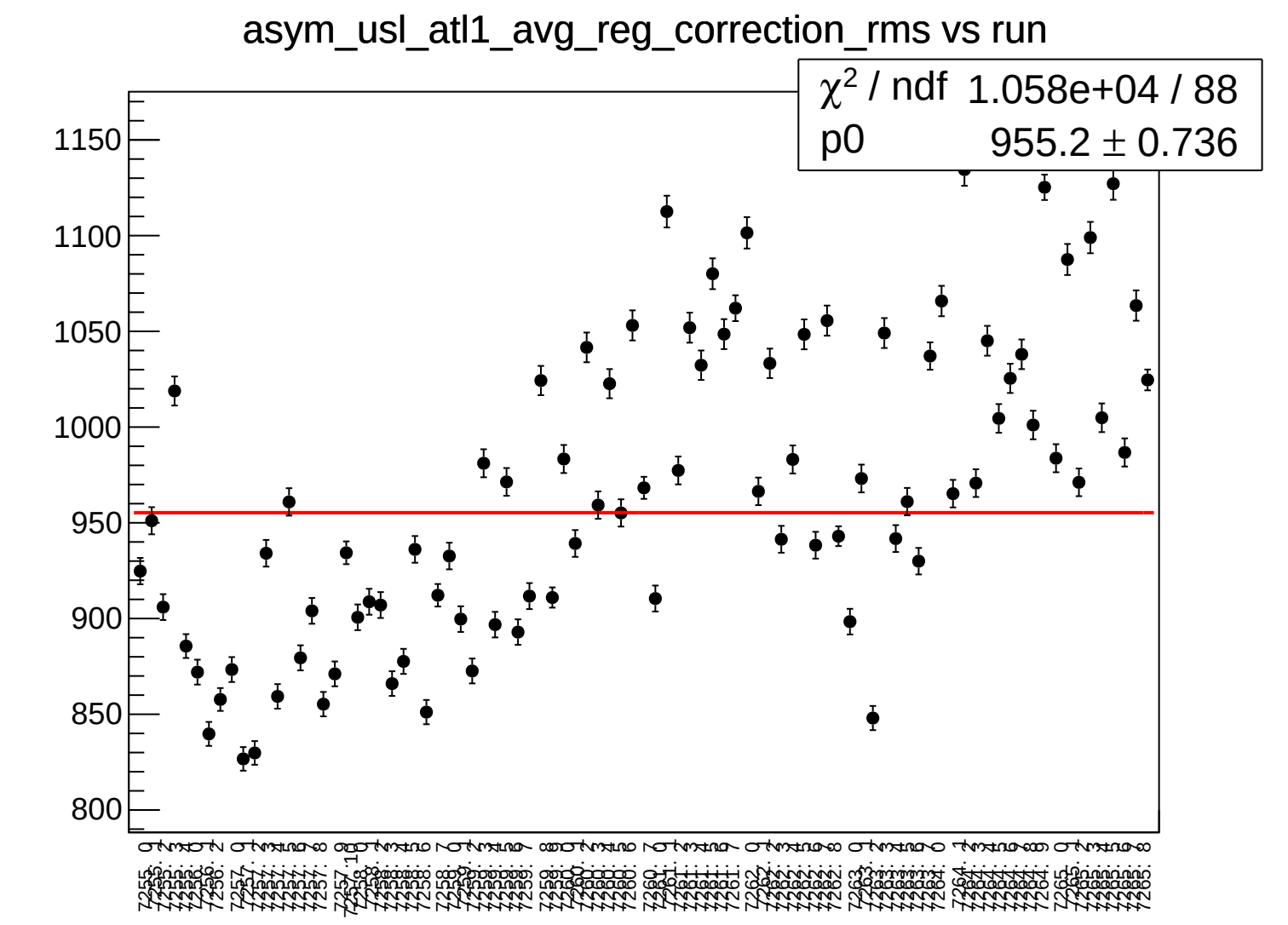

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.213e+05 / 88
p0 8.45e−12 ± 7.8e−15
70
60
50
40
30
20
10

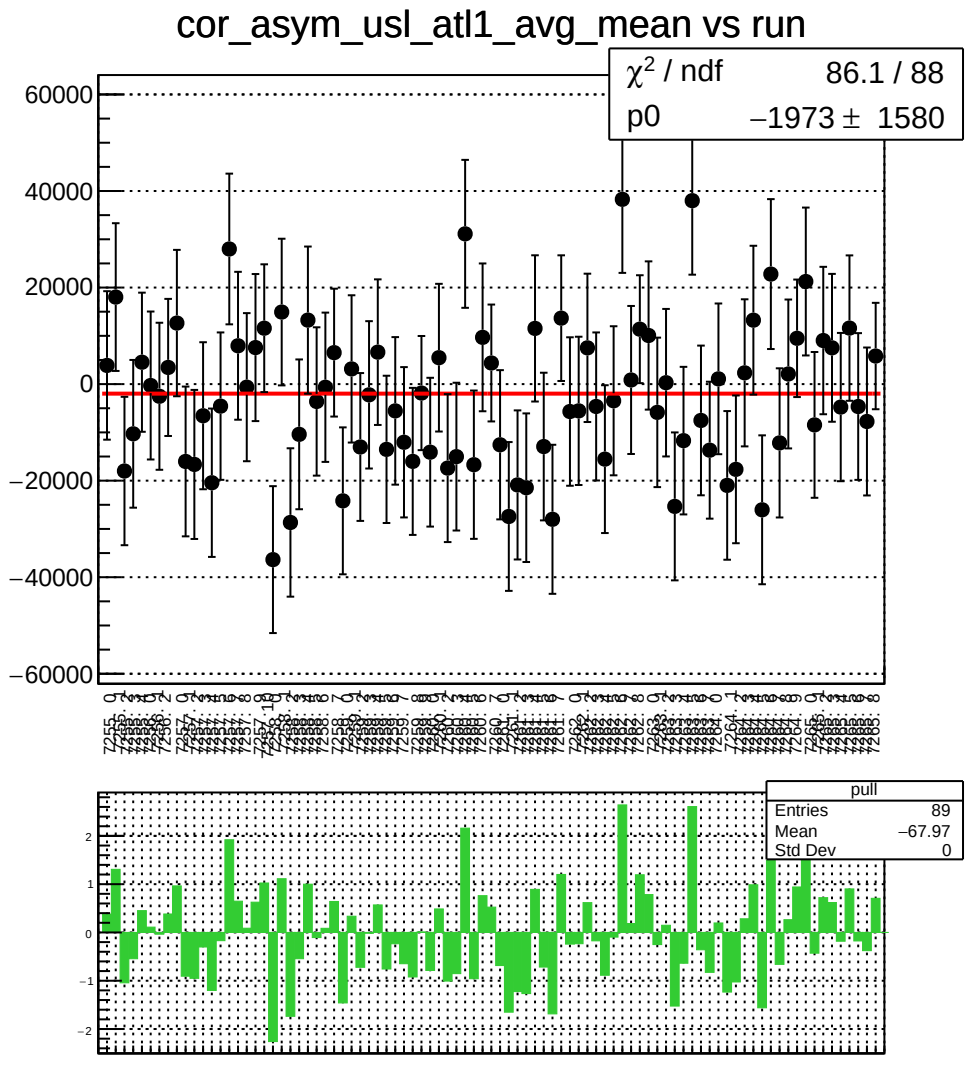

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 86.1 / 88
p0 −1973 ± 1580
pull
Entries 89
Mean −67.98
Std Dev 0

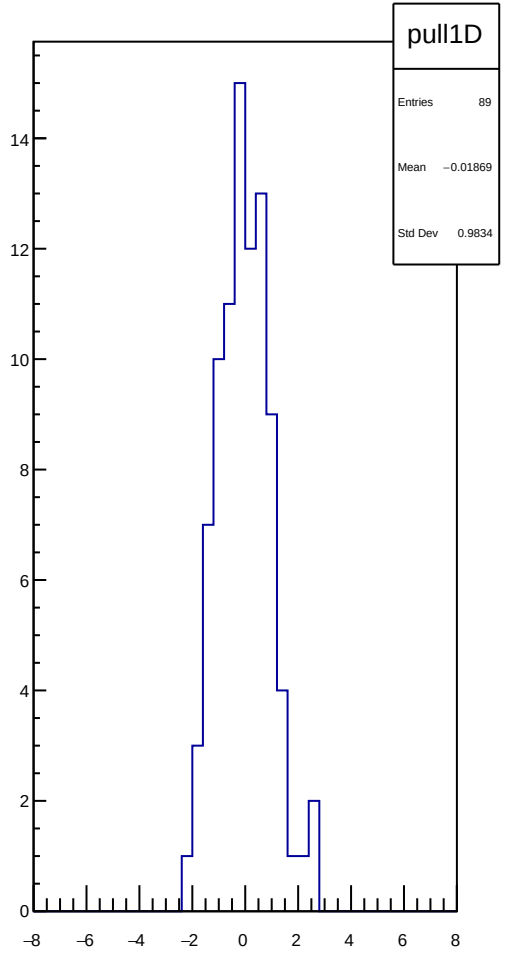

pull1D
Entries 89
Mean −0.01869
Std Dev 0.9834

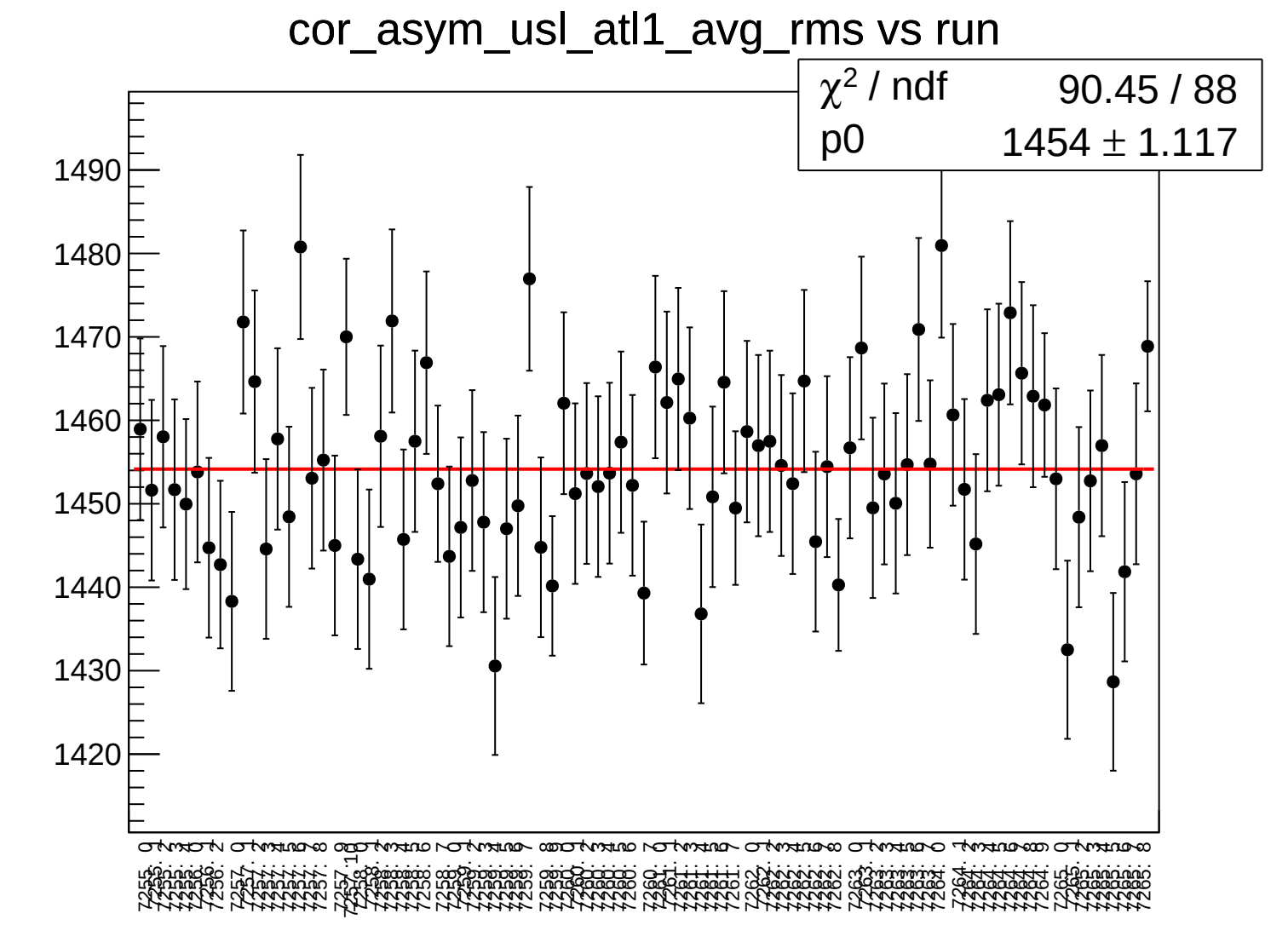

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 90.45 / 88
p0 1454 ± 1.117
1490
1480
1470
1460
1450
1440
1430
1420

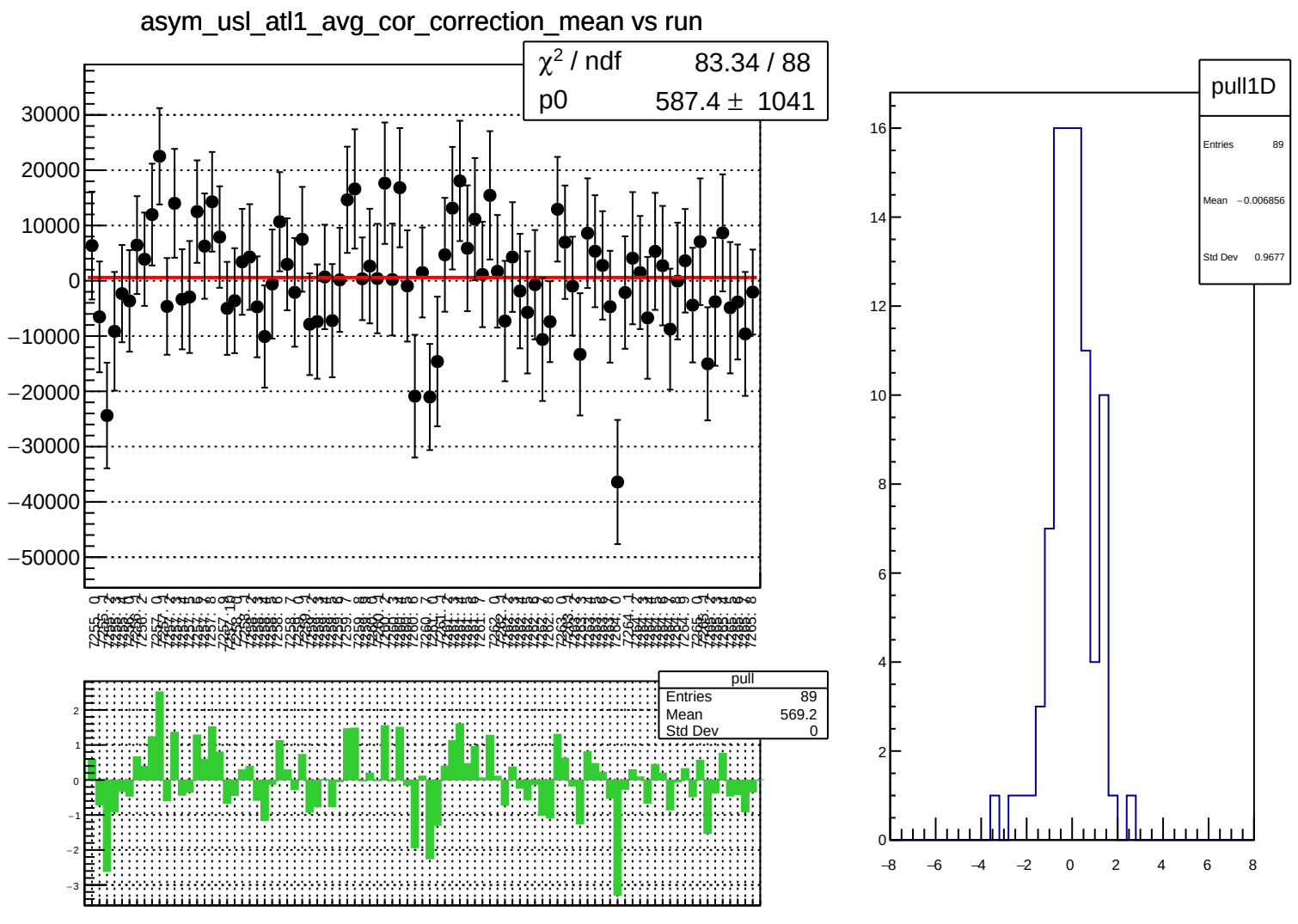

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 83.34 / 88
p0 587.7 ± 1041
pull
Entries 89
Mean 569.6
Std Dev 0
pull1D
Entries 89
Mean −0.006849
Std Dev 0.9677

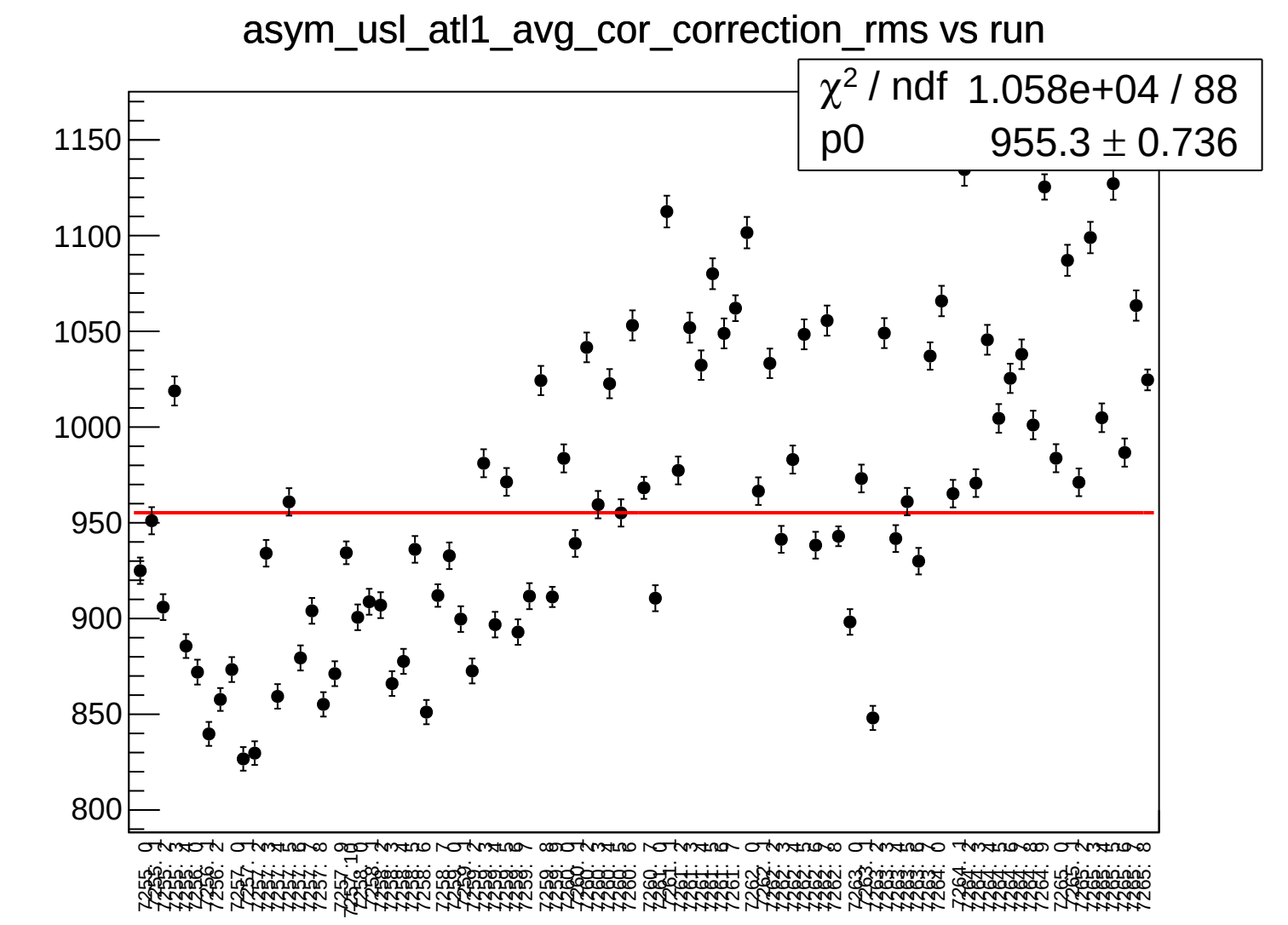

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.058e+04 / 88
p0 955.2 ± 0.736
1150
1100
1050
1000
950
900
850
800

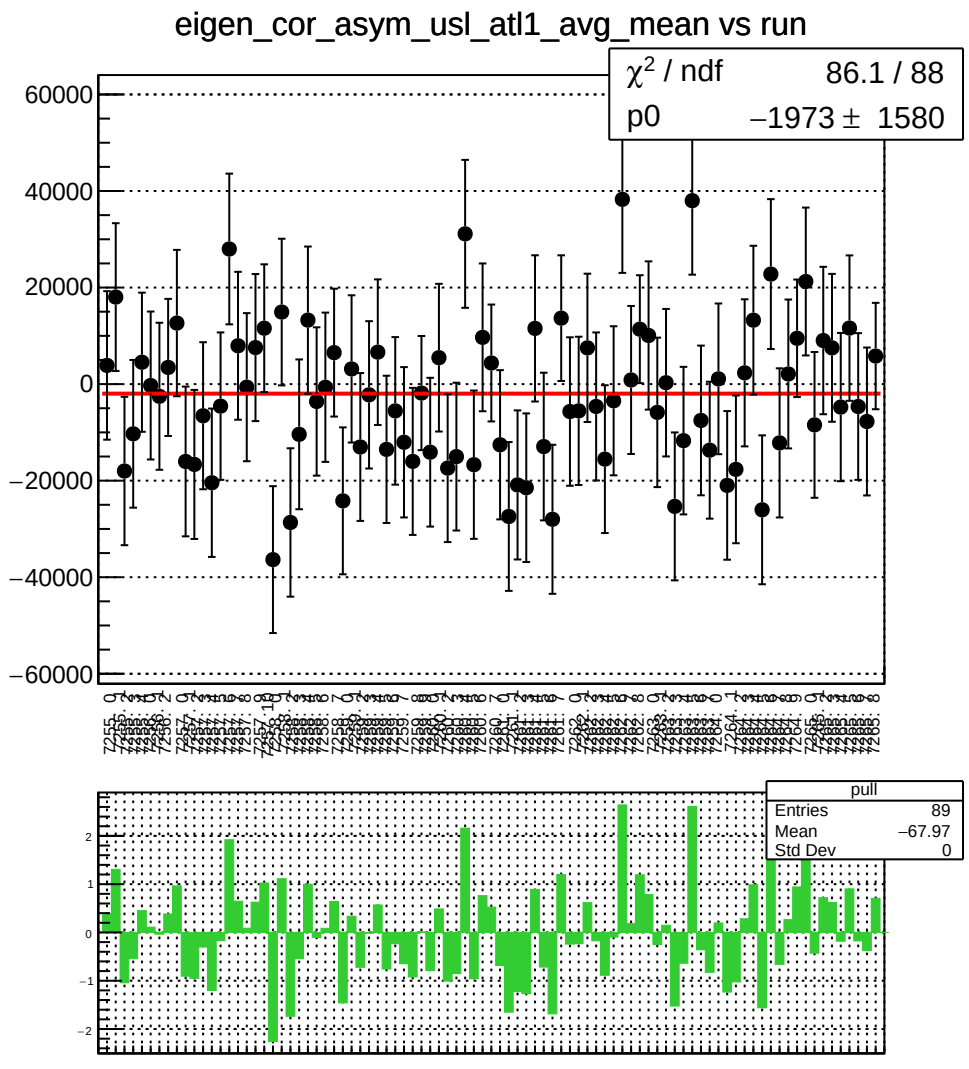

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 86.1 / 88
p0 −1973 ± 1580
pull
Entries 89
Mean −67.97
Std Dev 0

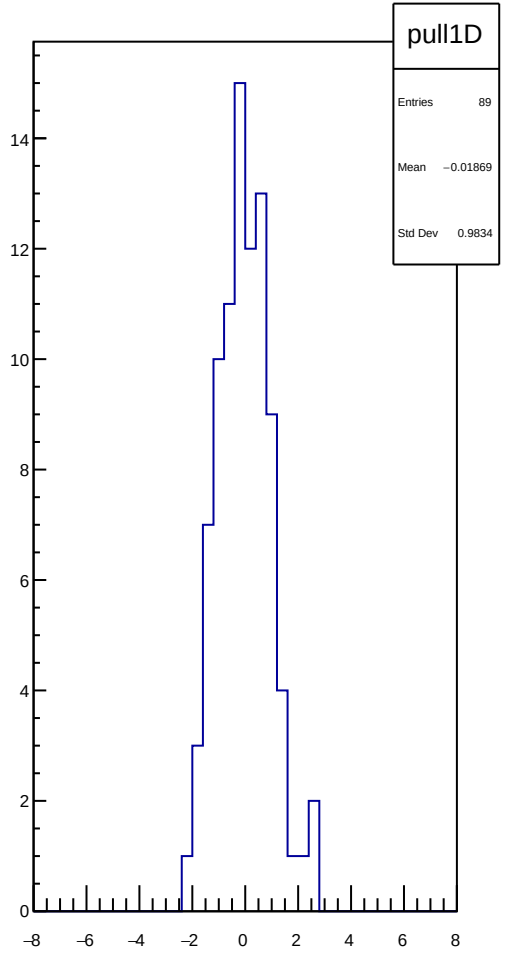

pull1D
Entries 89
Mean −0.01869
Std Dev 0.9834

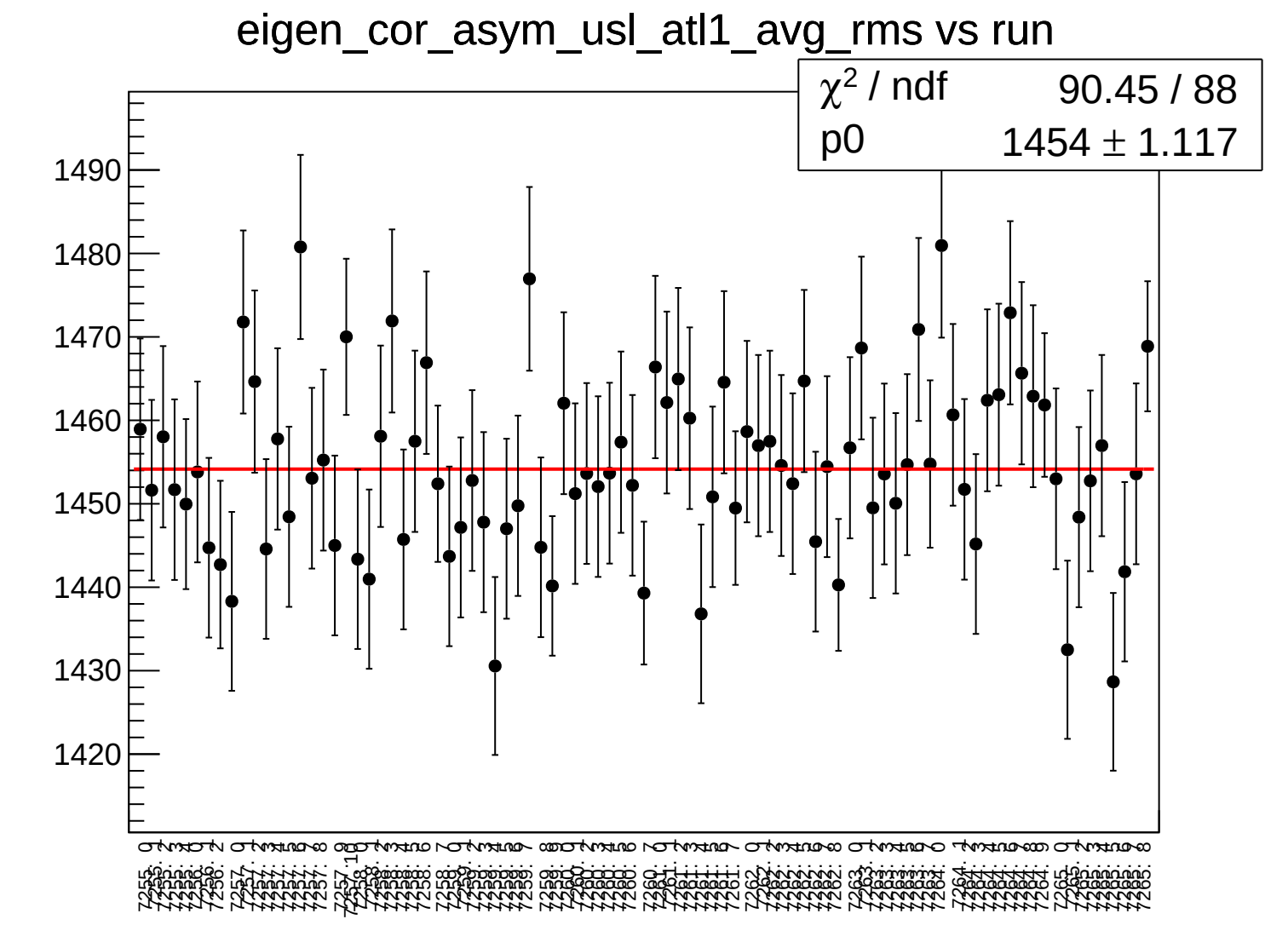

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 90.45 / 88
p0 1454 ± 1.117
1490
1480
1470
1460
1450
1440
1430
1420

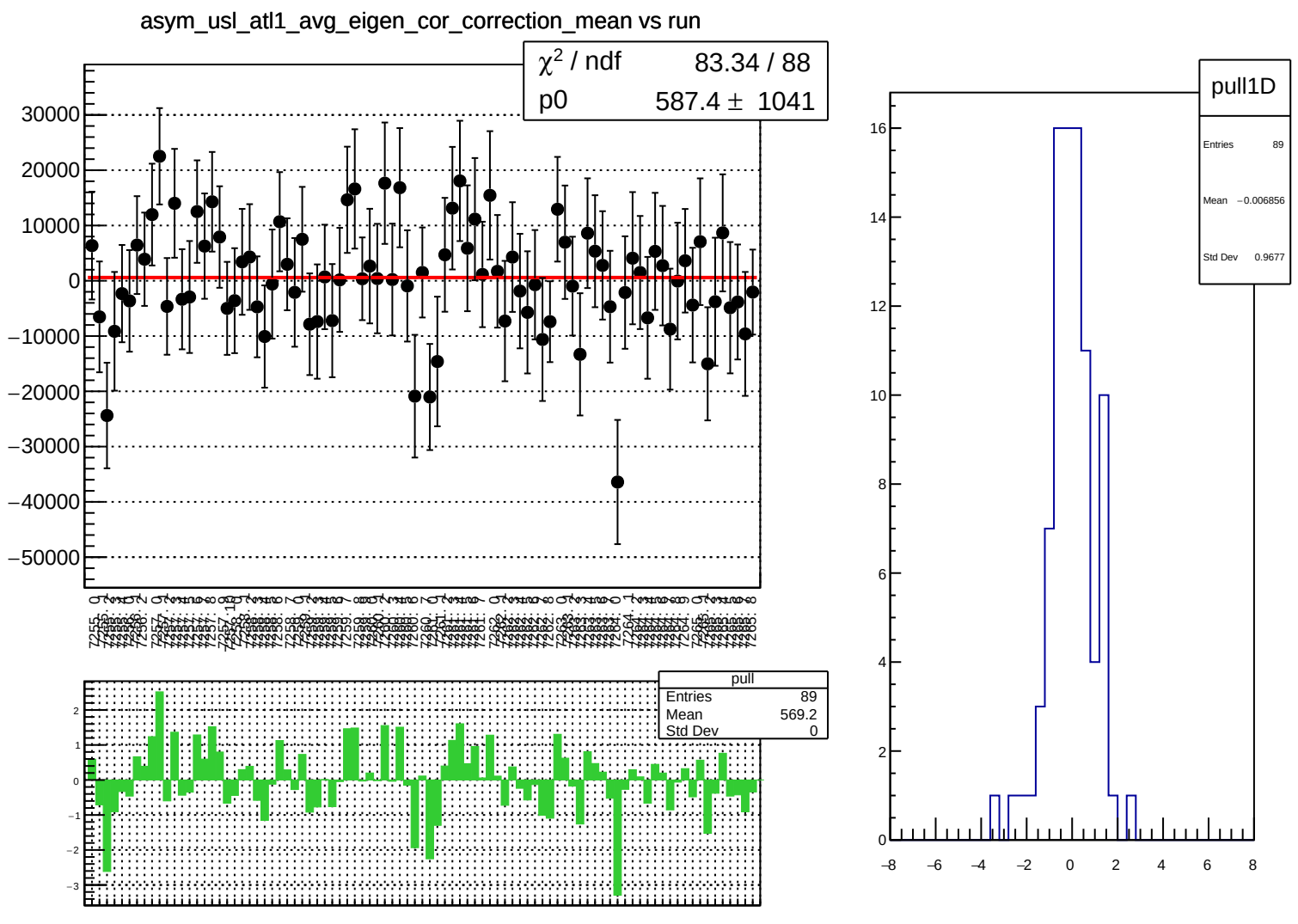

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 83.34 / 88
p0 587.4 ± 1041
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 89
Mean 569.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.006856
Std Dev 0.9677
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

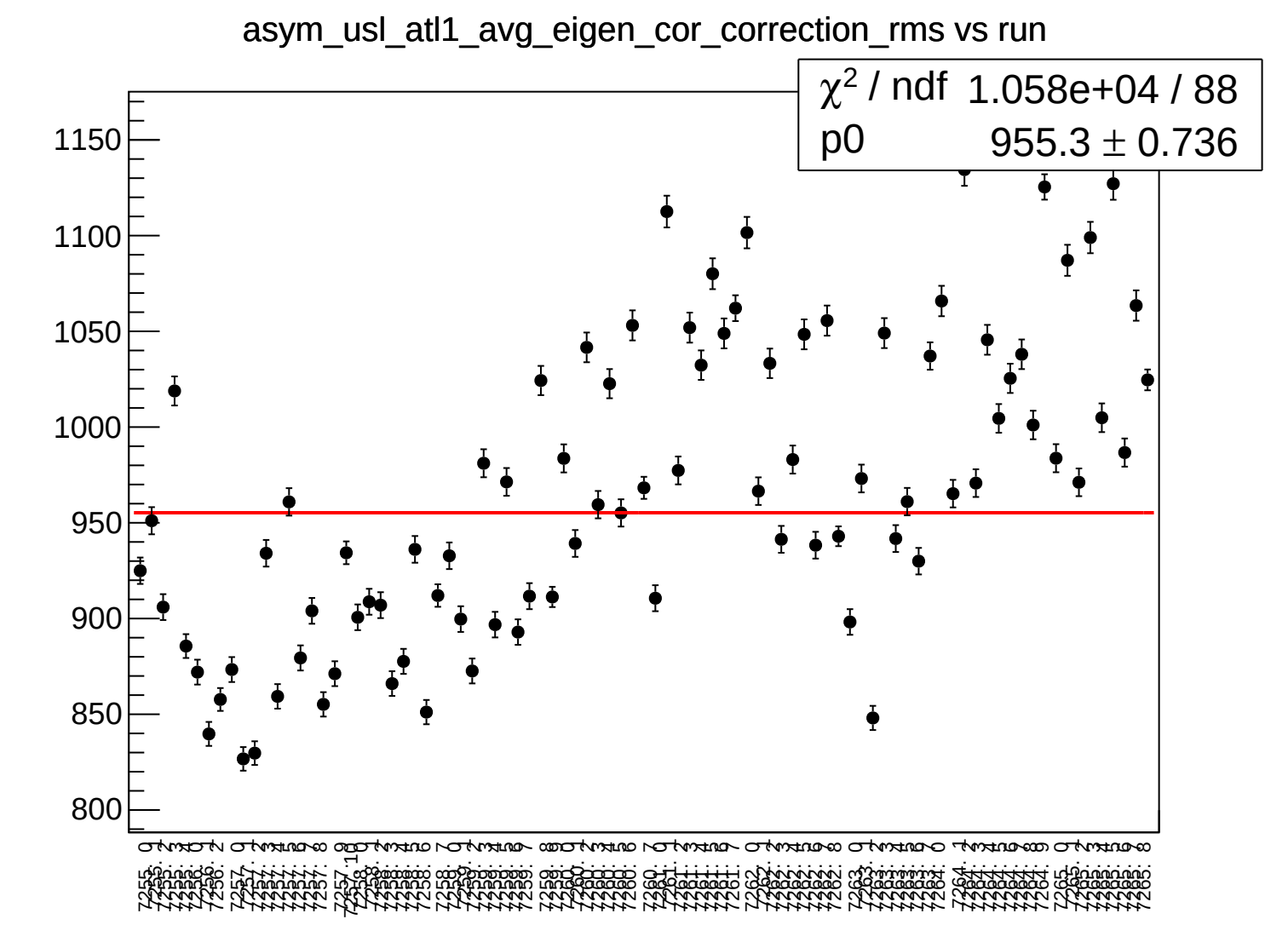

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.058e+04 / 88
p0 955.3 ± 0.736
1150
1100
1050
1000
950
900
850
800

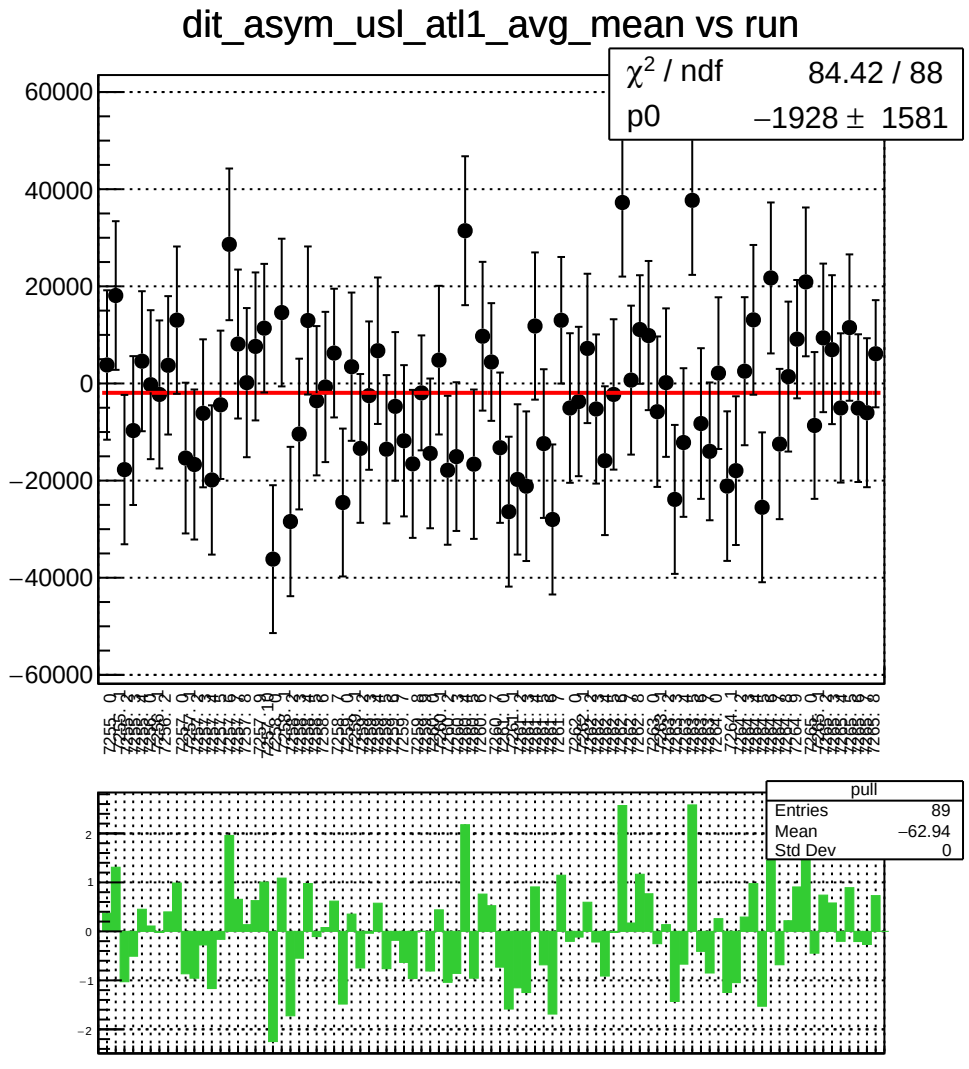

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 86.1 / 88
p0 −1973 ± 1580
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −67.97
Std Dev 0
2
1
0
−1
−2

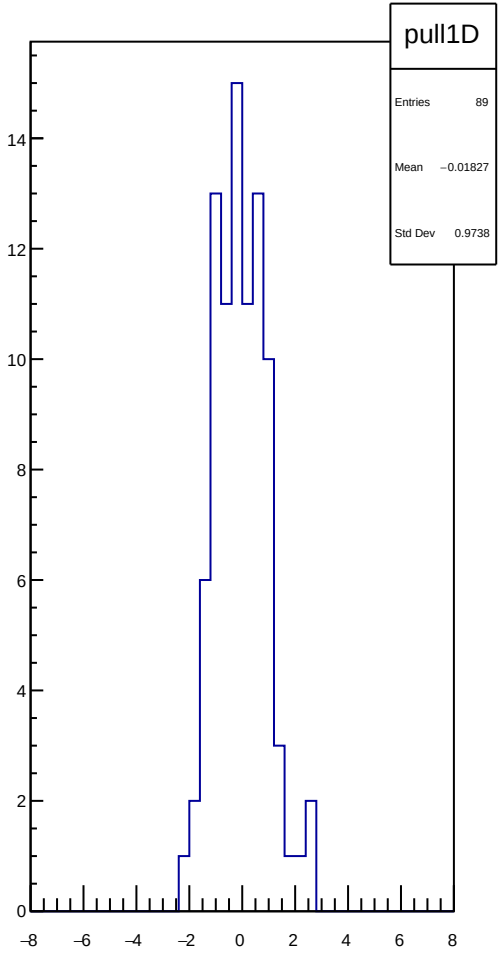

pull1D
Entries 89
Mean −0.01869
Std Dev 0.9834
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

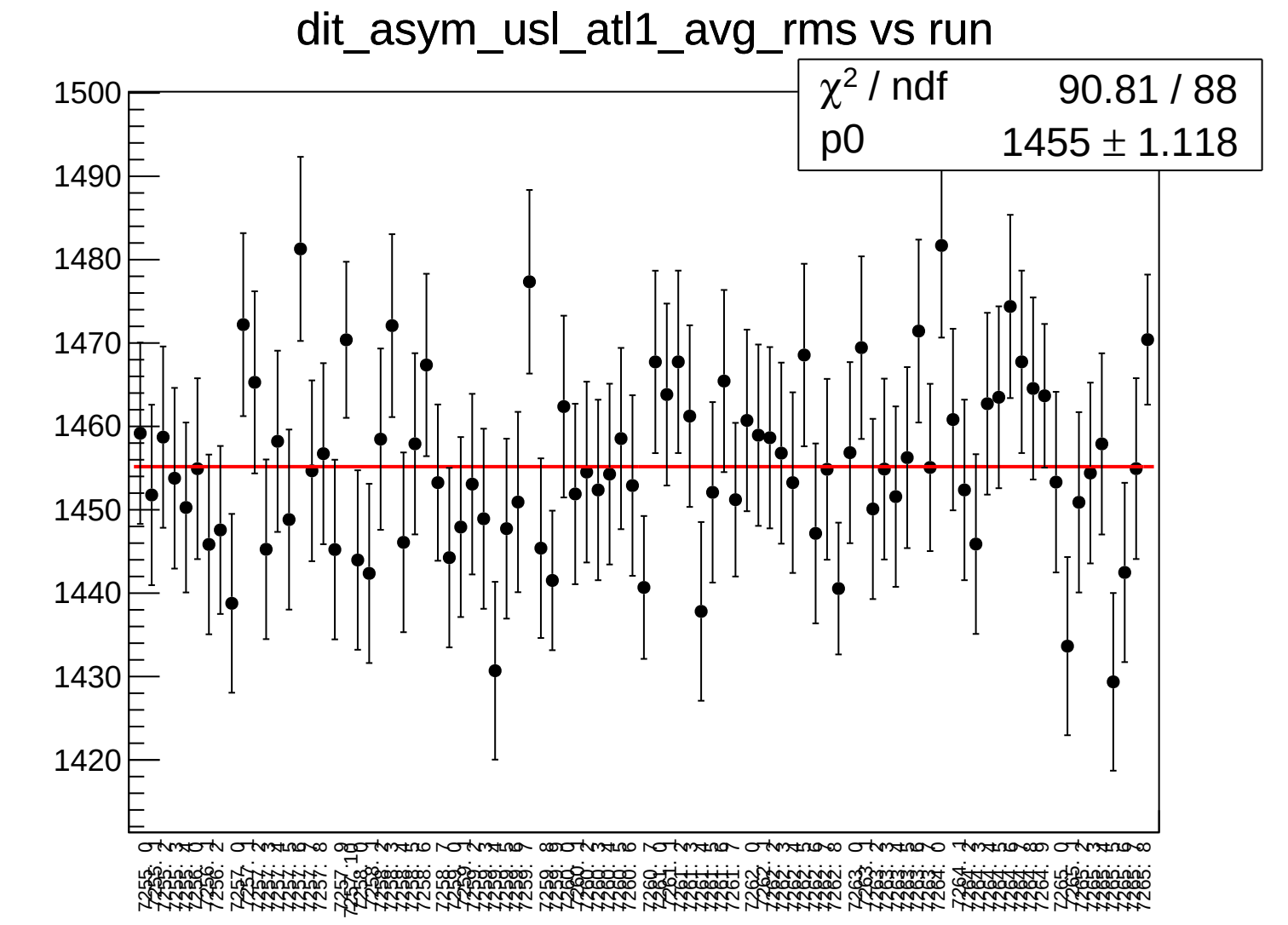

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 90.45 / 88
p0 1454 ± 1.117
1490
1480
1470
1460
1450
1440
1430
1420

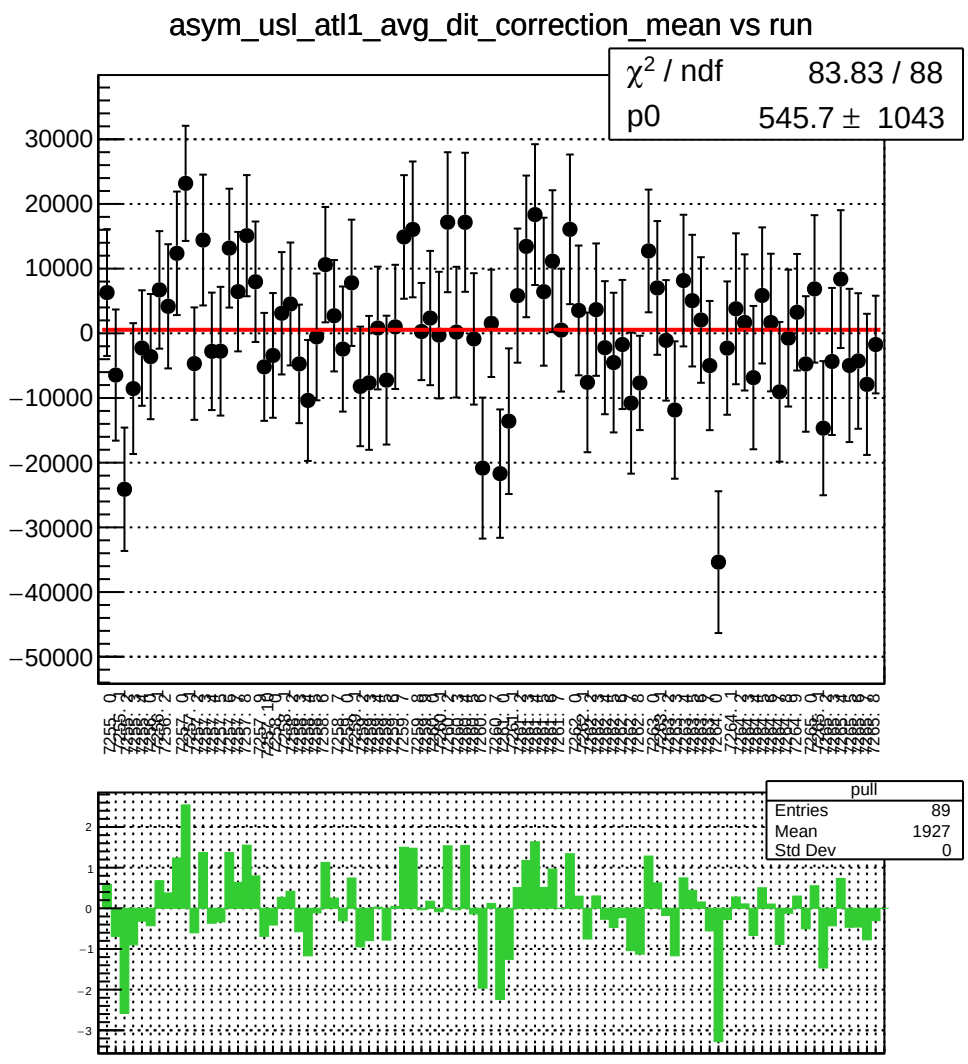

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.34 / 88
p0 587.4 ± 1041
pull
Entries 89
Mean 569.2
Std Dev 0
pull1D
Entries 89
Mean −0.006856
Std Dev 0.9677

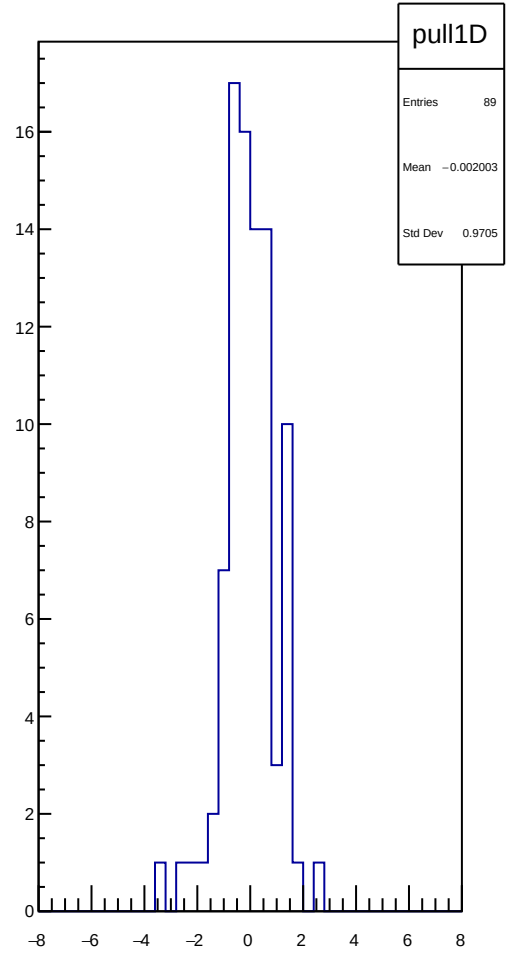

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.058e+04 / 88
p0 955.3 ± 0.736
1150
1100
1050
1000
950
900
850
800

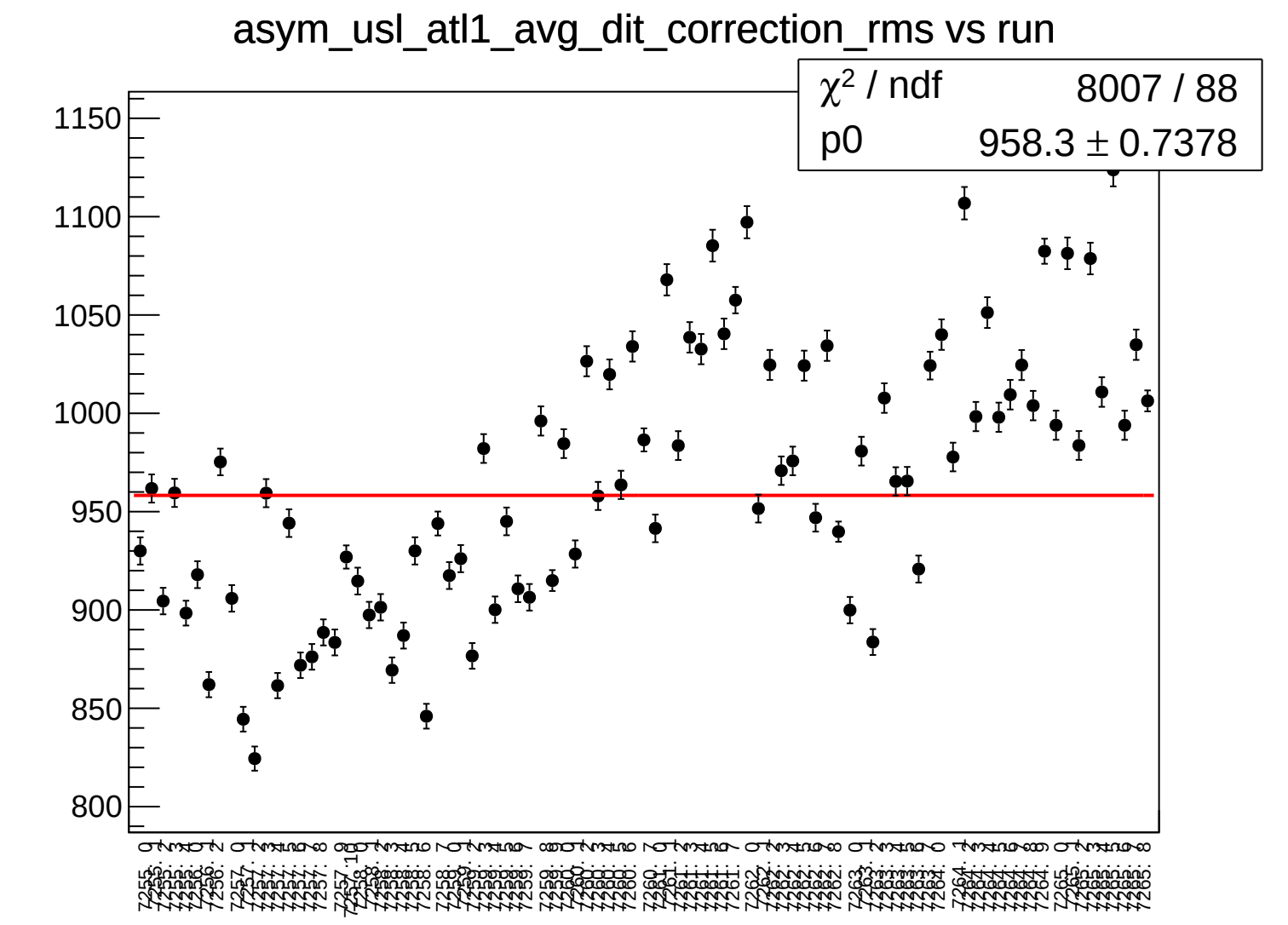

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 84.42 / 88
p0 −1928 ± 1581
pull
Entries 89
Mean −62.94
Std Dev 0

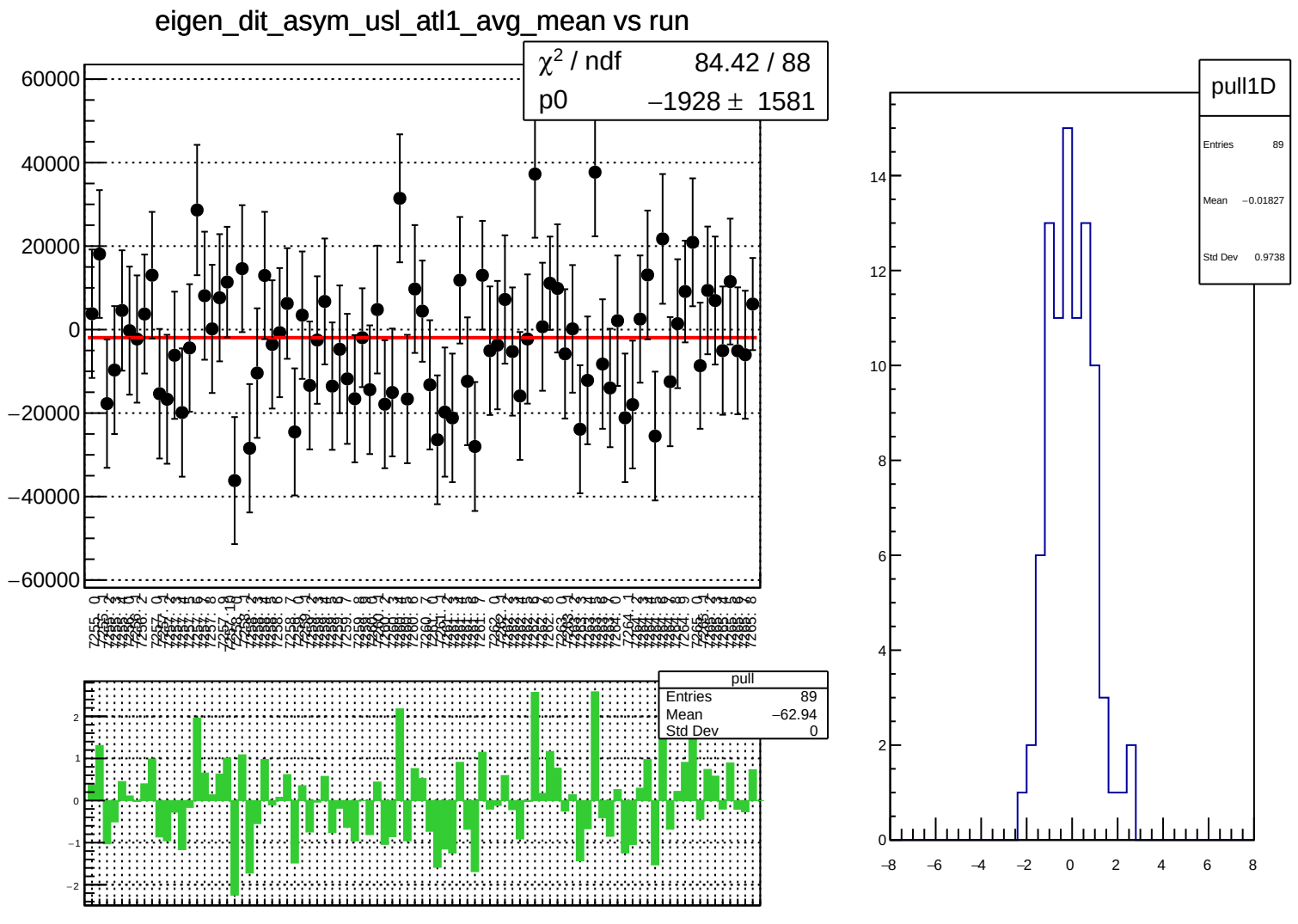

pull1D
Entries 89
Mean −0.01827
Std Dev 0.9738

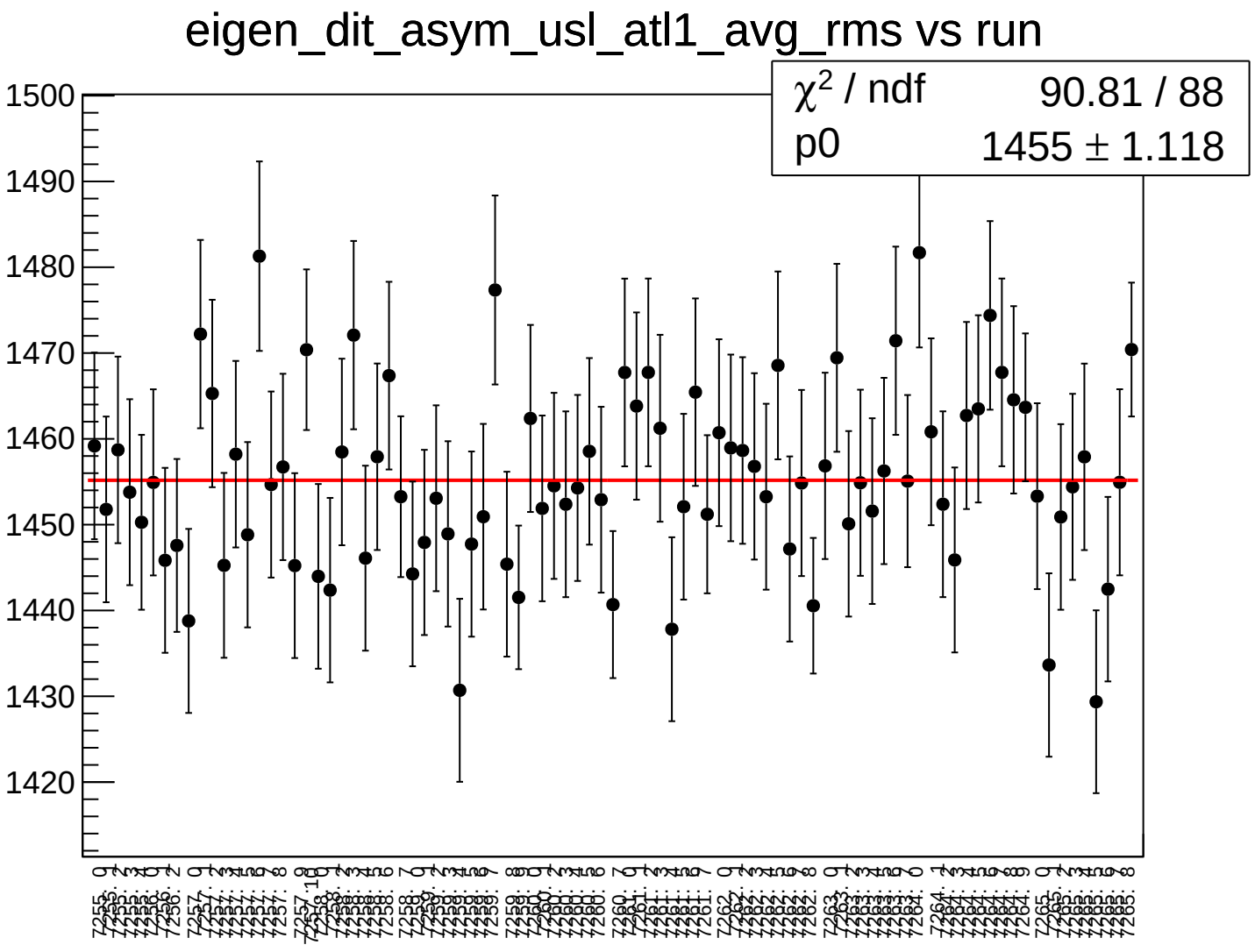

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 90.81 / 88
p0 1455 ± 1.118
1500
1490
1480
1470
1460
1450
1440
1430
1420

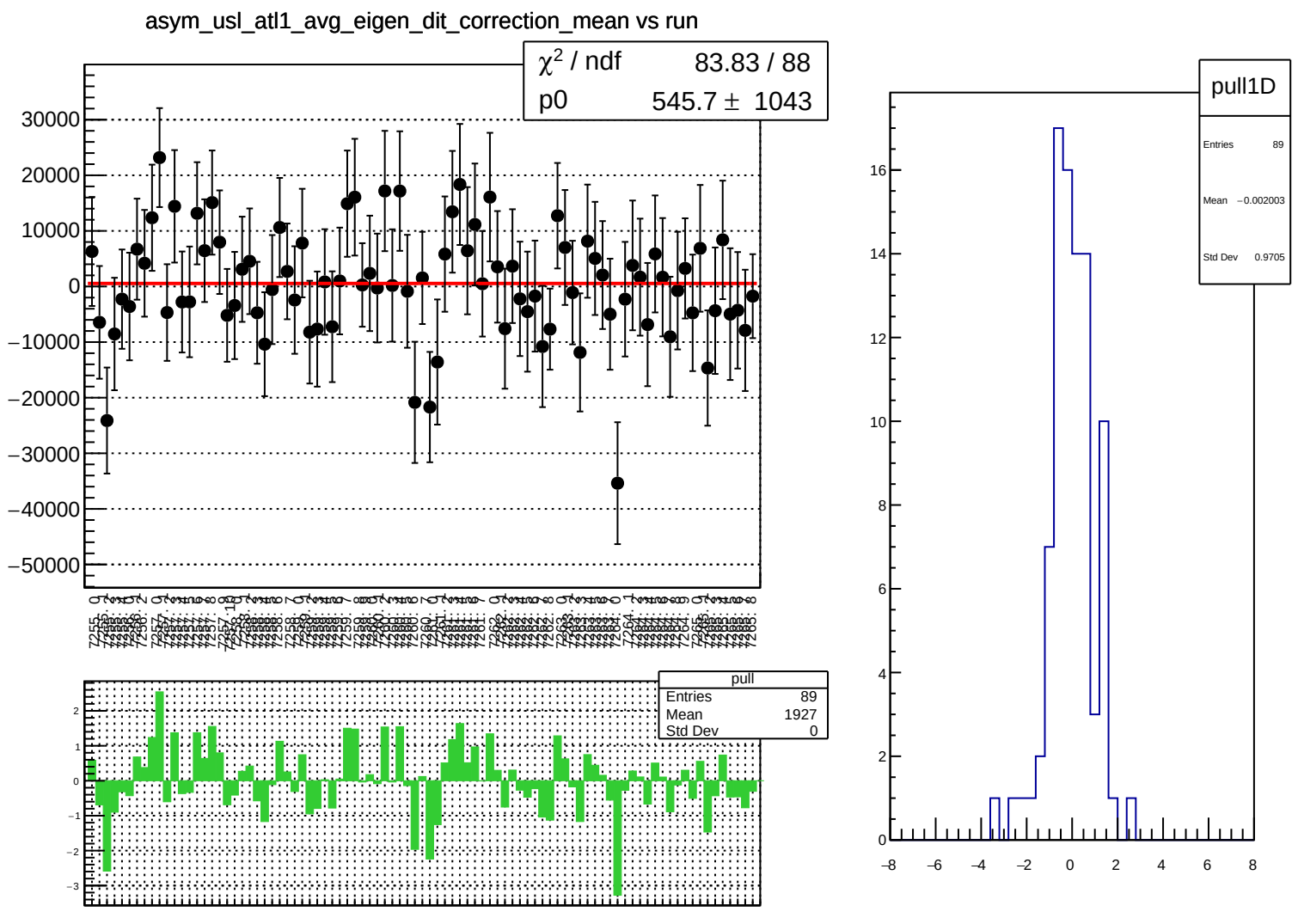

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 83.83 / 88
p0 545.7 ± 1043
pull
Entries 89
Mean 1927
Std Dev 0

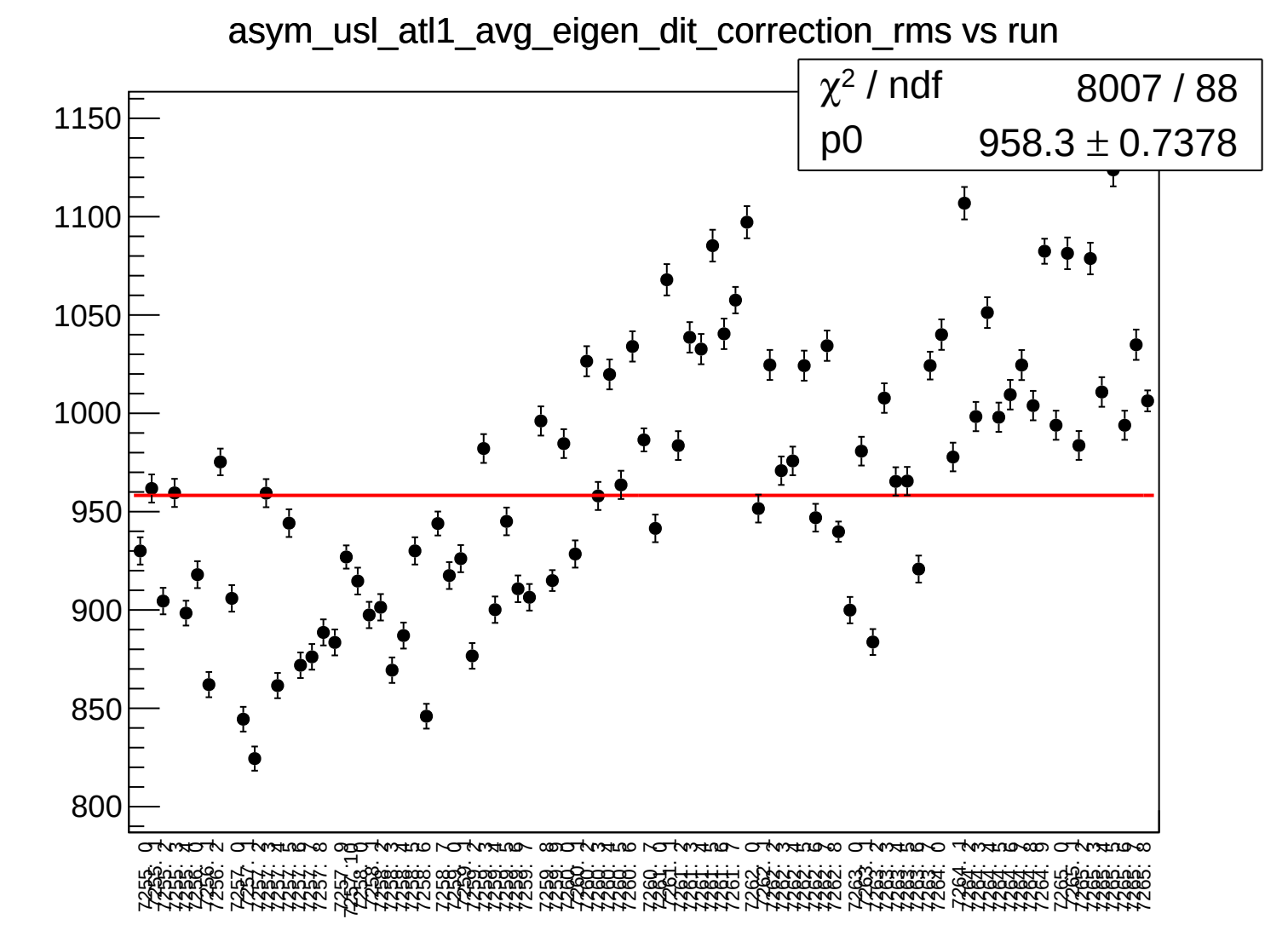

pull1D
Entries 89
Mean −0.002003
Std Dev 0.9705

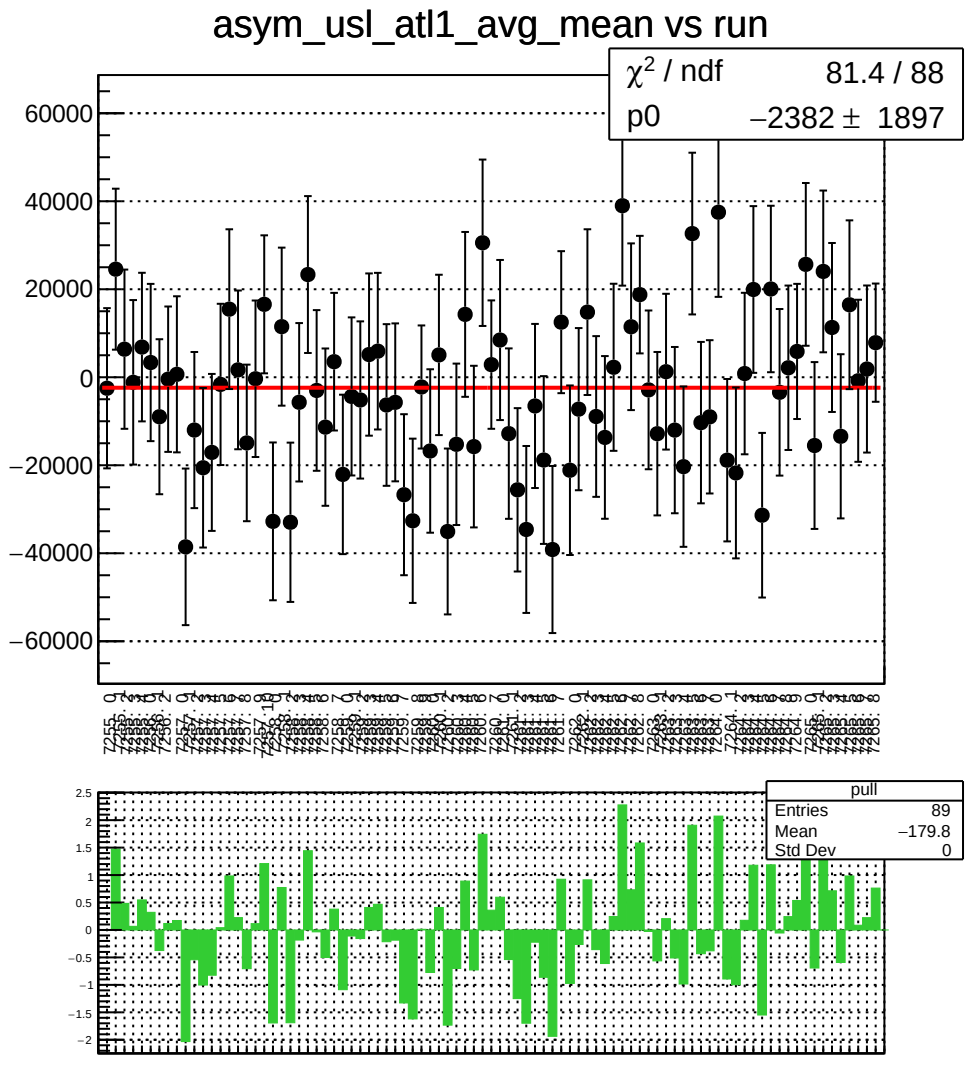

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 8007 / 88
p0 958.3 ± 0.7378
1150
1100
1050
1000
950
900
850
800

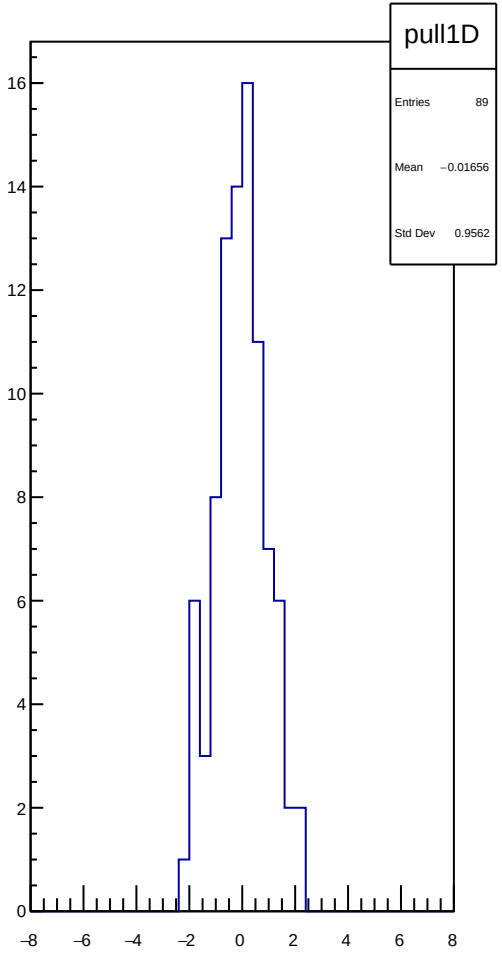

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 84.42 / 88
p0 −1928 ± 1581
pull
Entries 89
Mean −62.94
Std Dev 0
pull1D
Entries 89
Mean −0.01827
Std Dev 0.9738

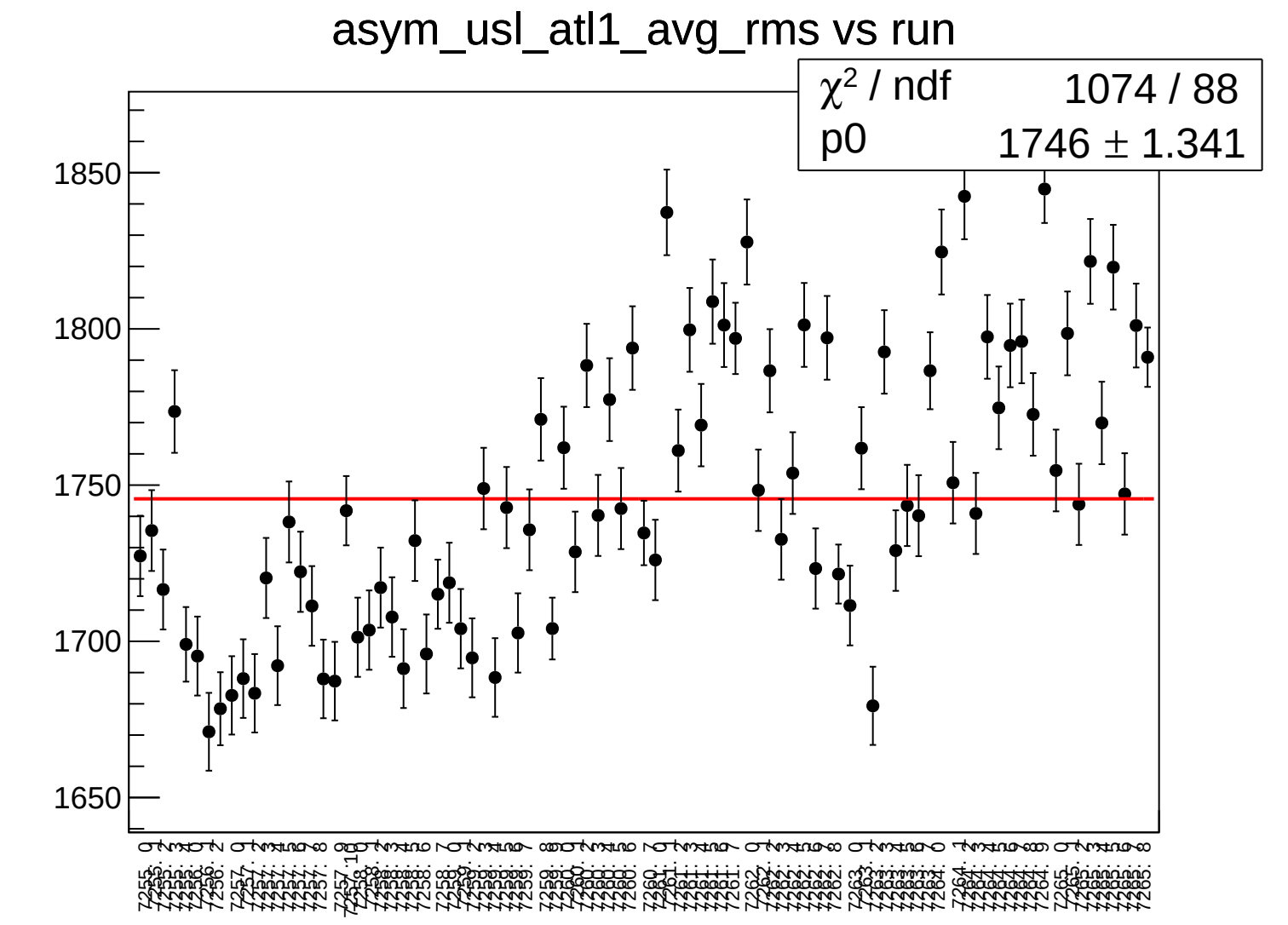

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 90.81 / 88
p0 1455 ± 1.118
1500
1490
1480
1470
1460
1450
1440
1430
1420

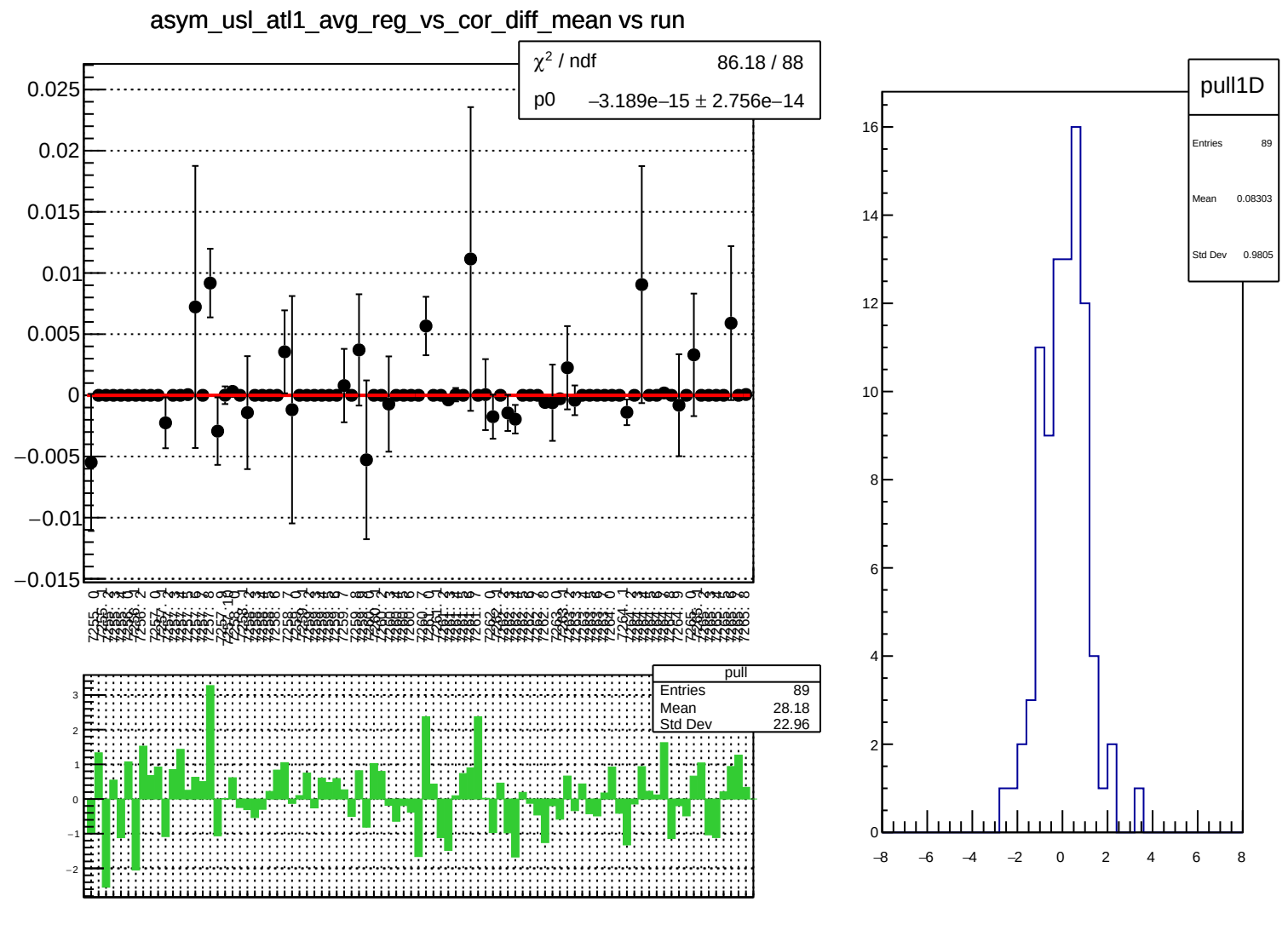

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.83 / 88
p0 545.7 ± 1043
pull
Entries 89
Mean 1927
Std Dev 0
pull1D
Entries 89
Mean −0.002003
Std Dev 0.9705

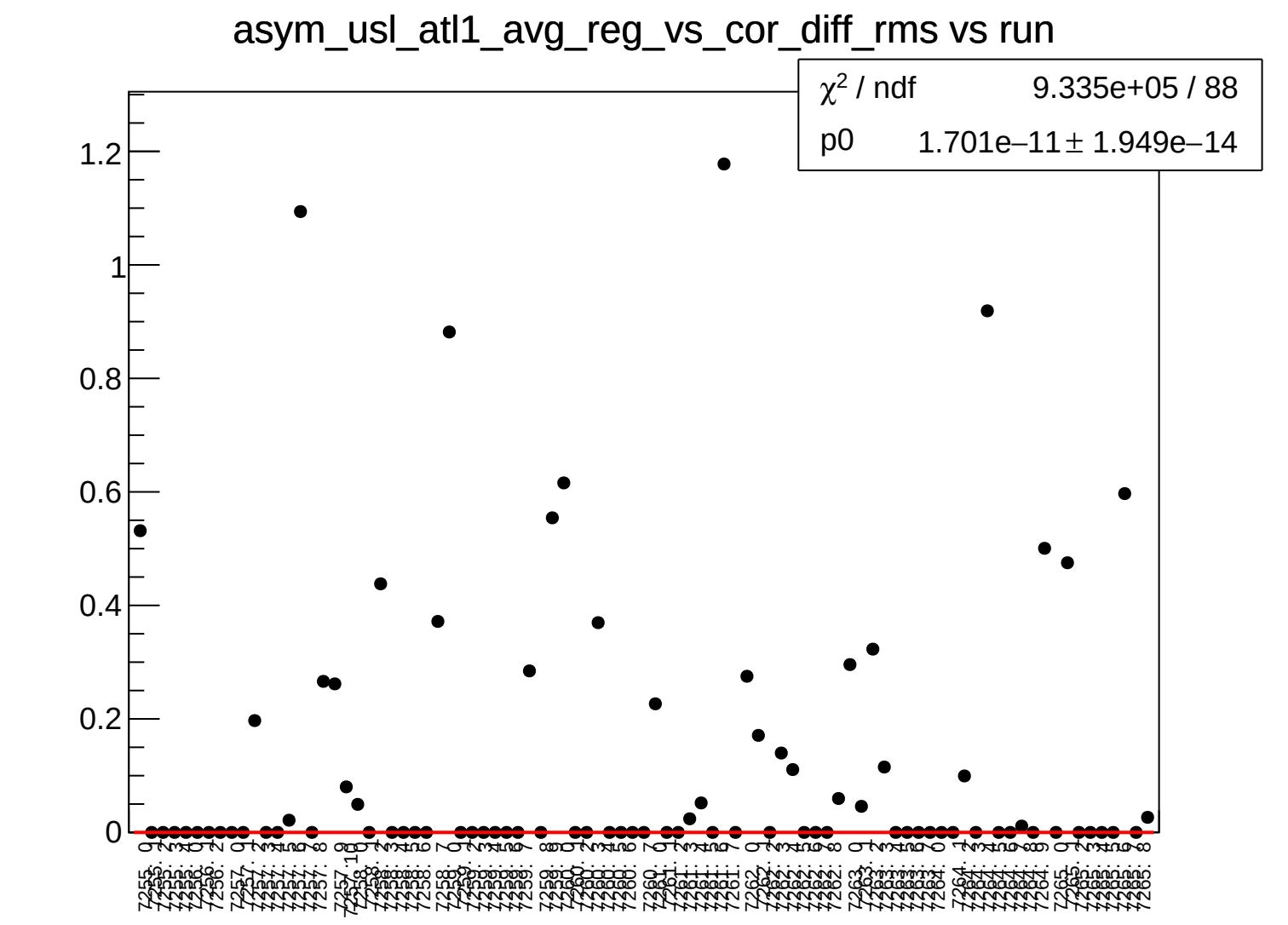

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8007 / 88
p0 958.3 ± 0.7378
1150
1100
1050
1000
950
900
850
800

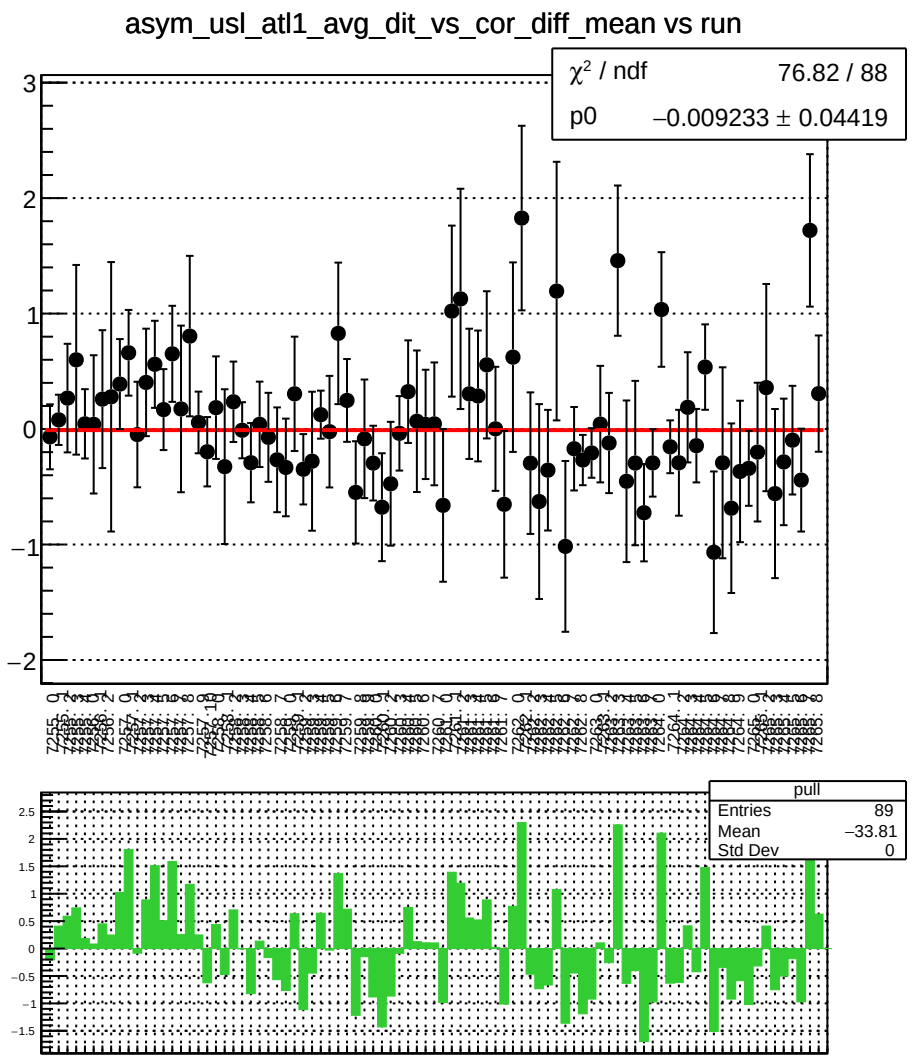

asym_usl_atl1_avg_mean vs run
χ² / ndf 81.4 / 88
p0 −2382 ± 1897
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −179.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

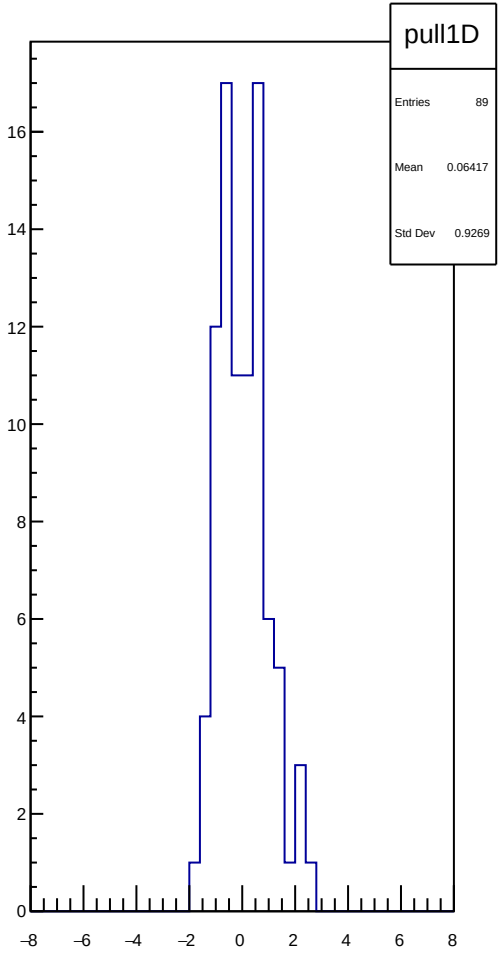

pull1D
Entries 89
Mean −0.01656
Std Dev 0.9562
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

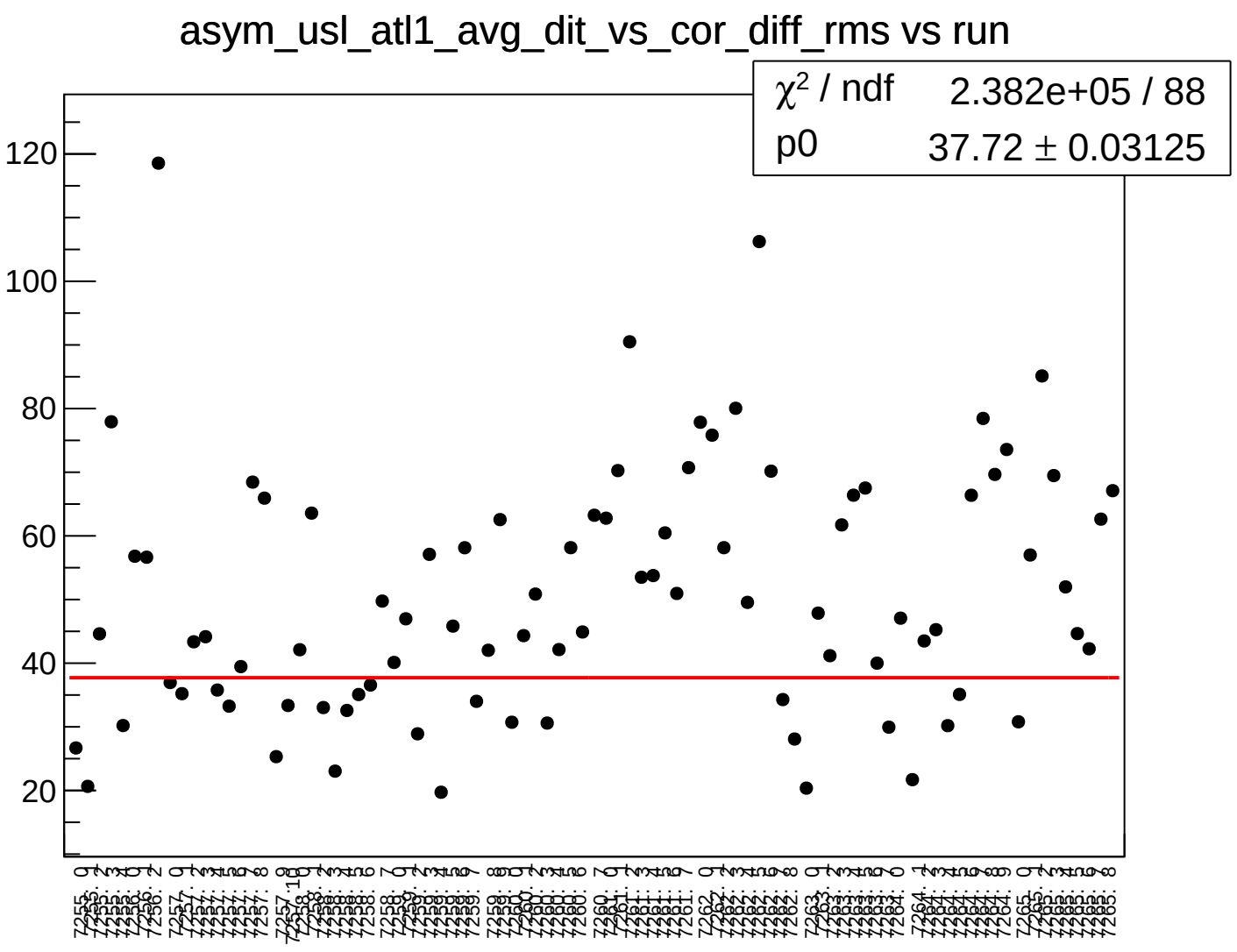

asym_usl_atl1_avg_rms vs run
χ² / ndf 1074 / 88
p0 1746 ± 1.341
1850
1800
1750
1700
1650

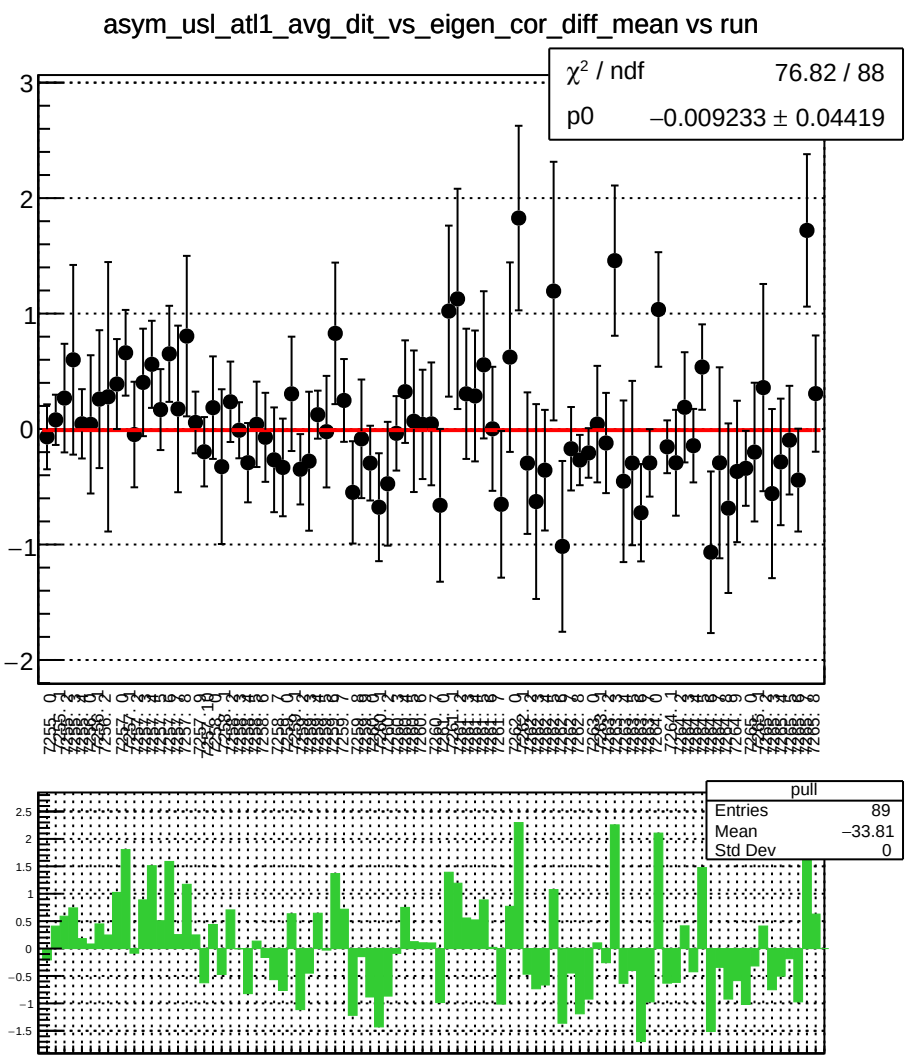

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.18 / 88
p0 −3.189e−15 ± 2.756e−14
pull
Entries 89
Mean 28.18
Std Dev 22.96
pull1D
Entries 89
Mean 0.08303
Std Dev 0.9805

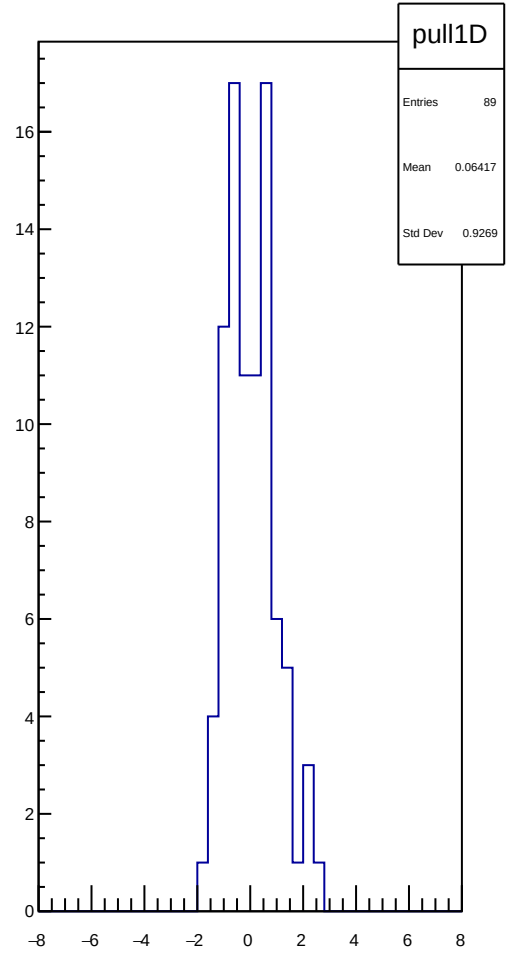

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.335e+05 / 88
p0 1.701e−11 ± 1.949e−14
1.2
1
0.8
0.6
0.4
0.2
0

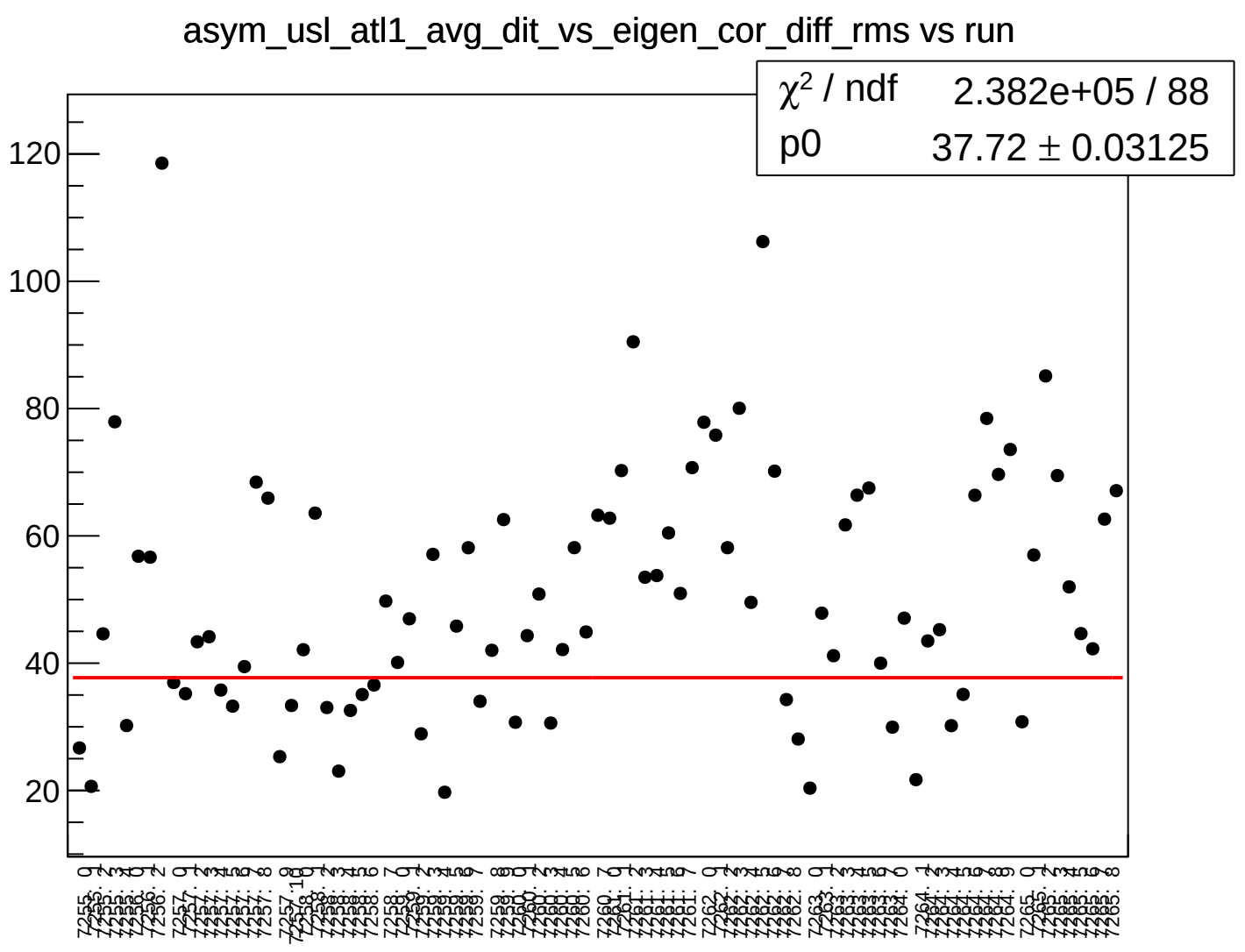

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.82 / 88
p0 −0.009233 ± 0.04419
pull
Entries 89
Mean −33.81
Std Dev 0

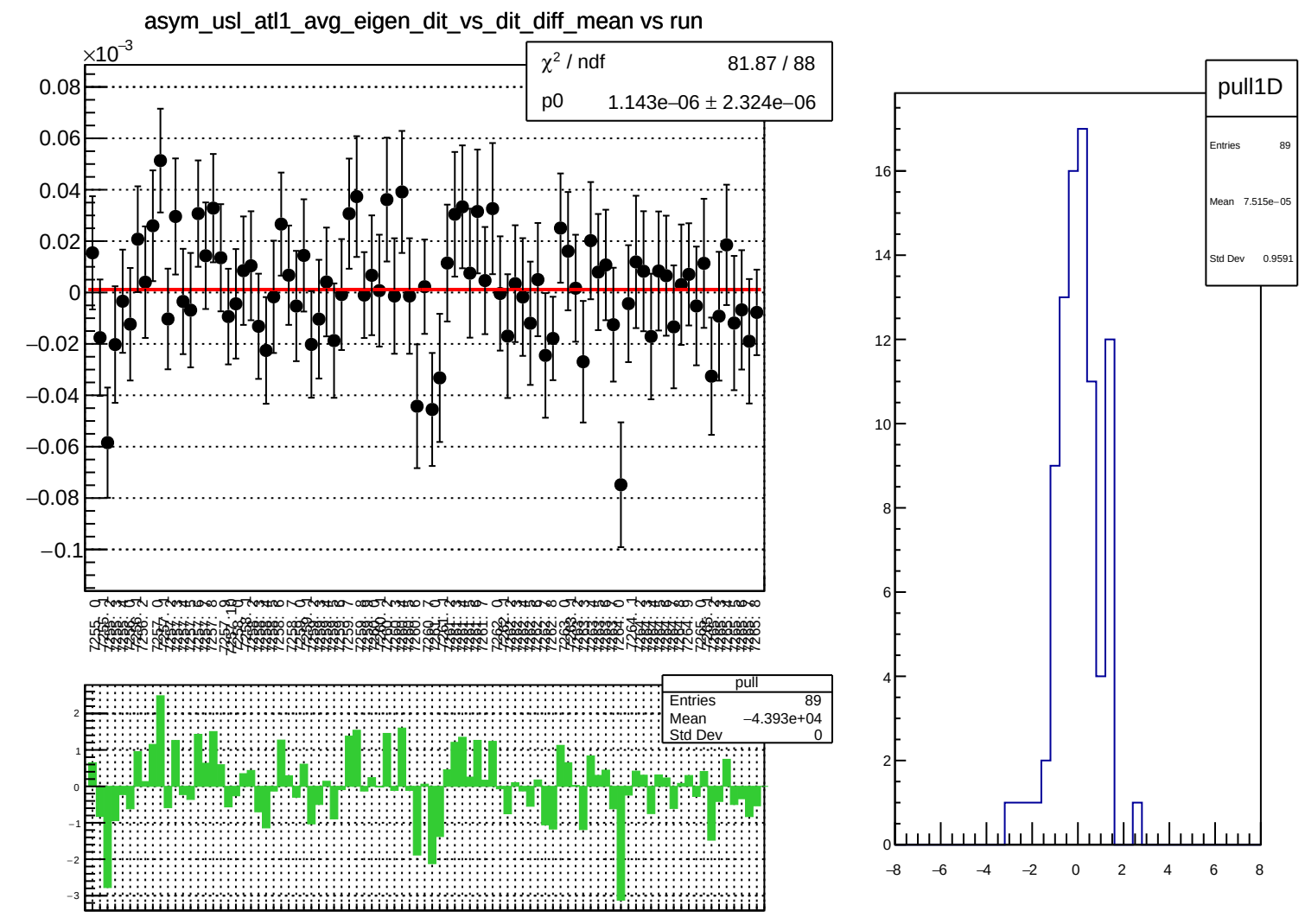

pull1D
Entries 89
Mean 0.06417
Std Dev 0.9269

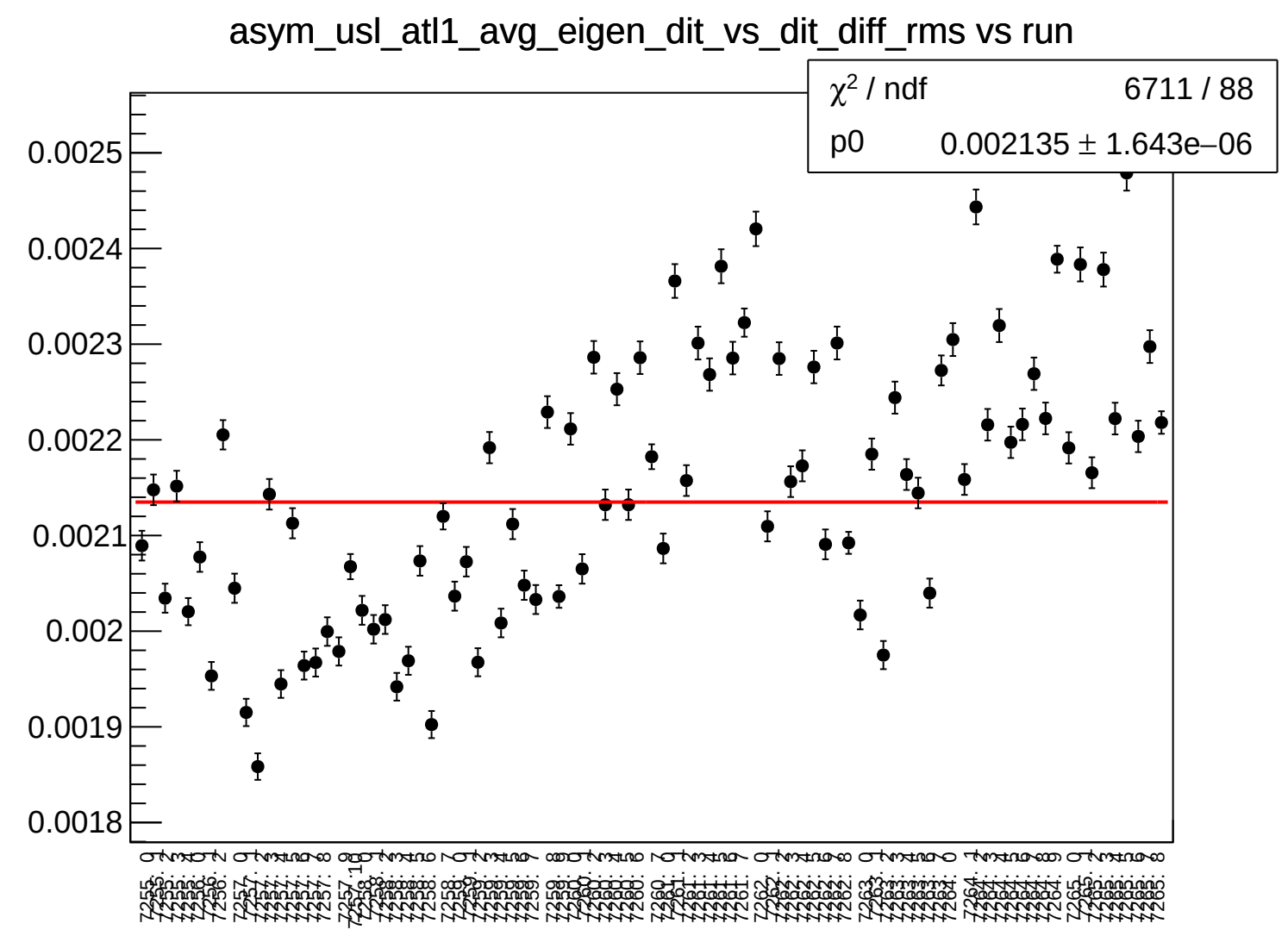

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.382e+05 / 88
p0 37.72 ± 0.03125
120
100
80
60
40
20

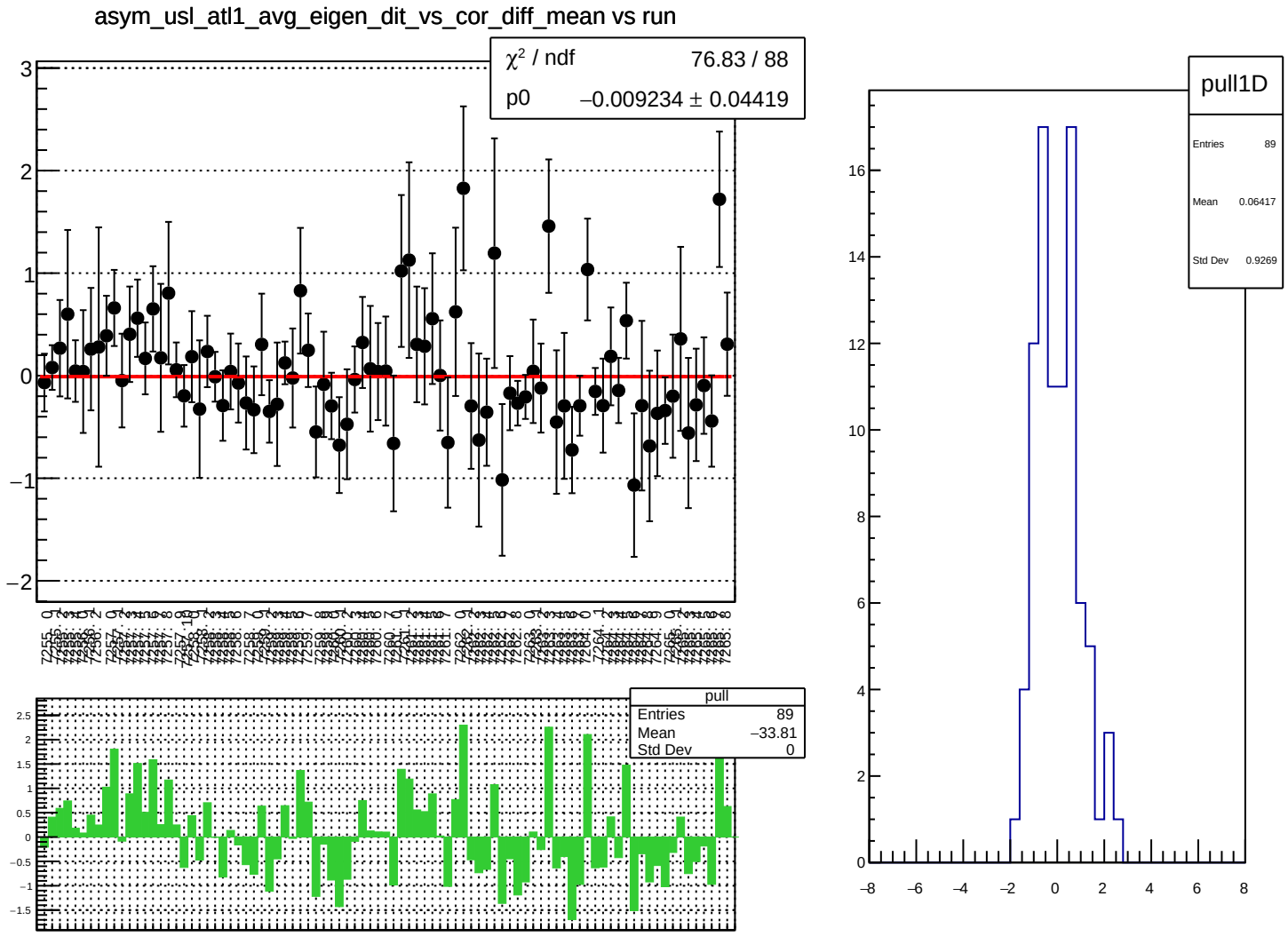

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.82 / 88
p0 −0.009233 ± 0.04419
pull
Entries 89
Mean −33.81
Std Dev 0

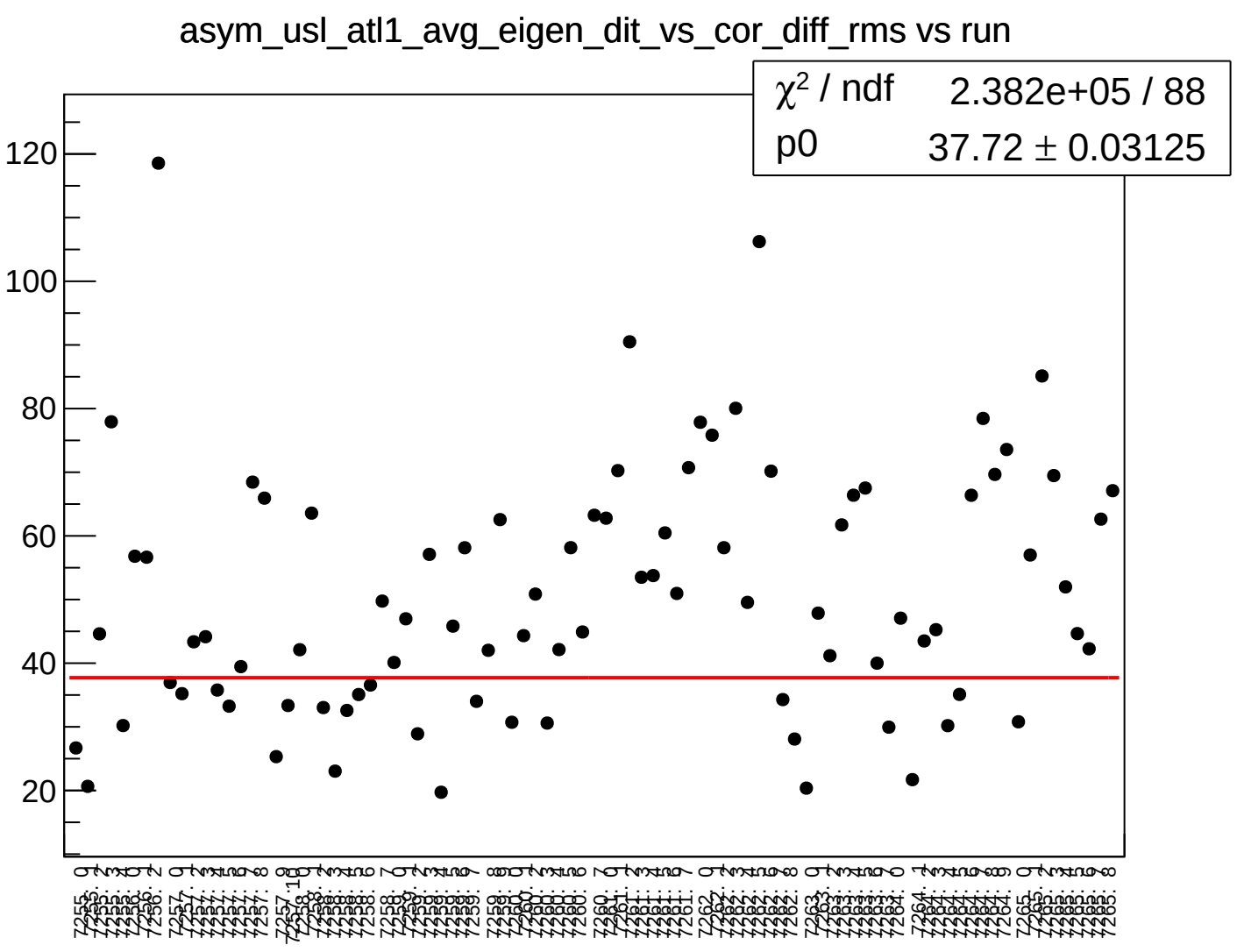

pull1D
Entries 89
Mean 0.06417
Std Dev 0.9269

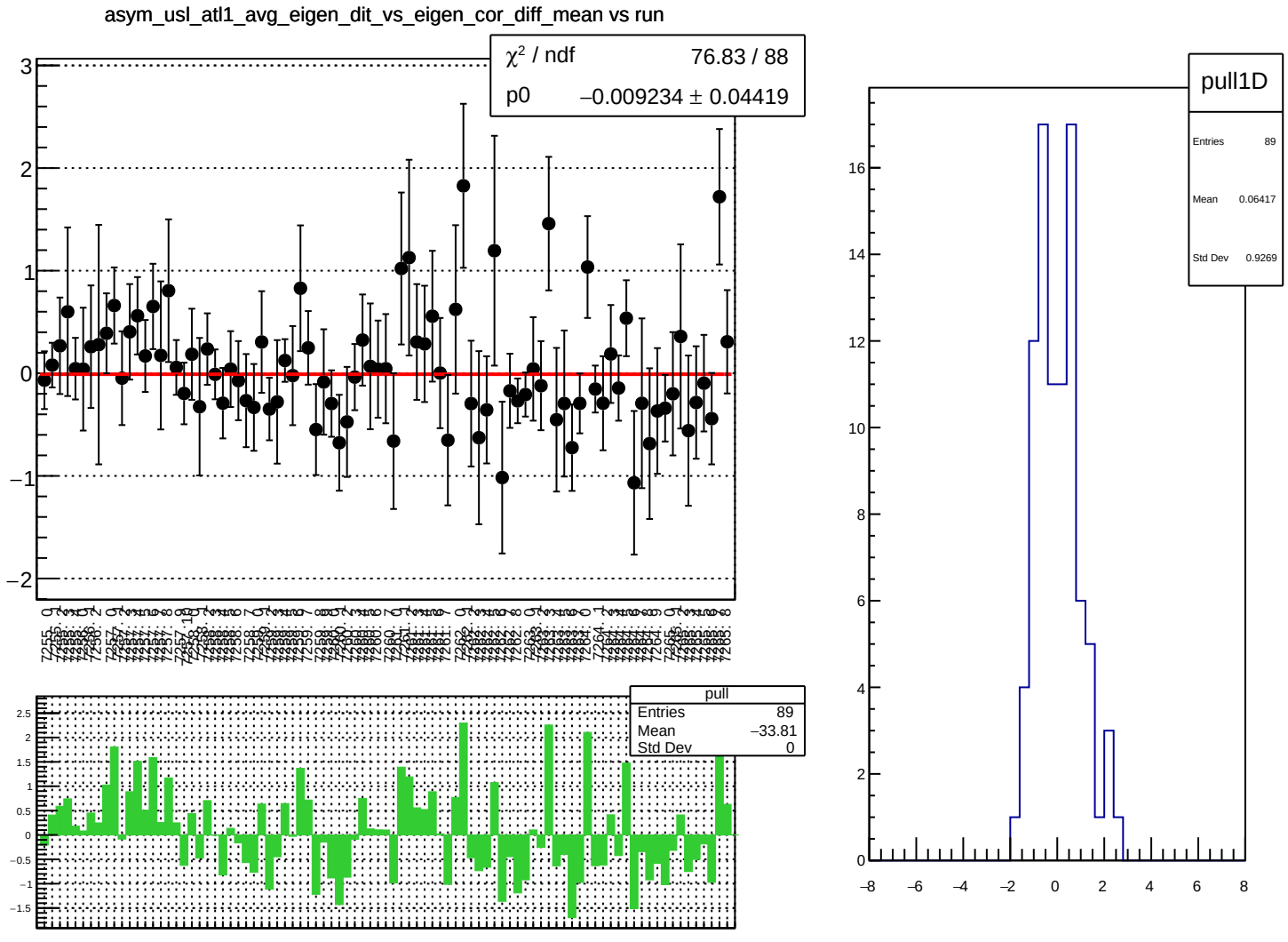

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.382e+05 / 88
p0 37.72 ± 0.03125
120
100
80
60
40
20

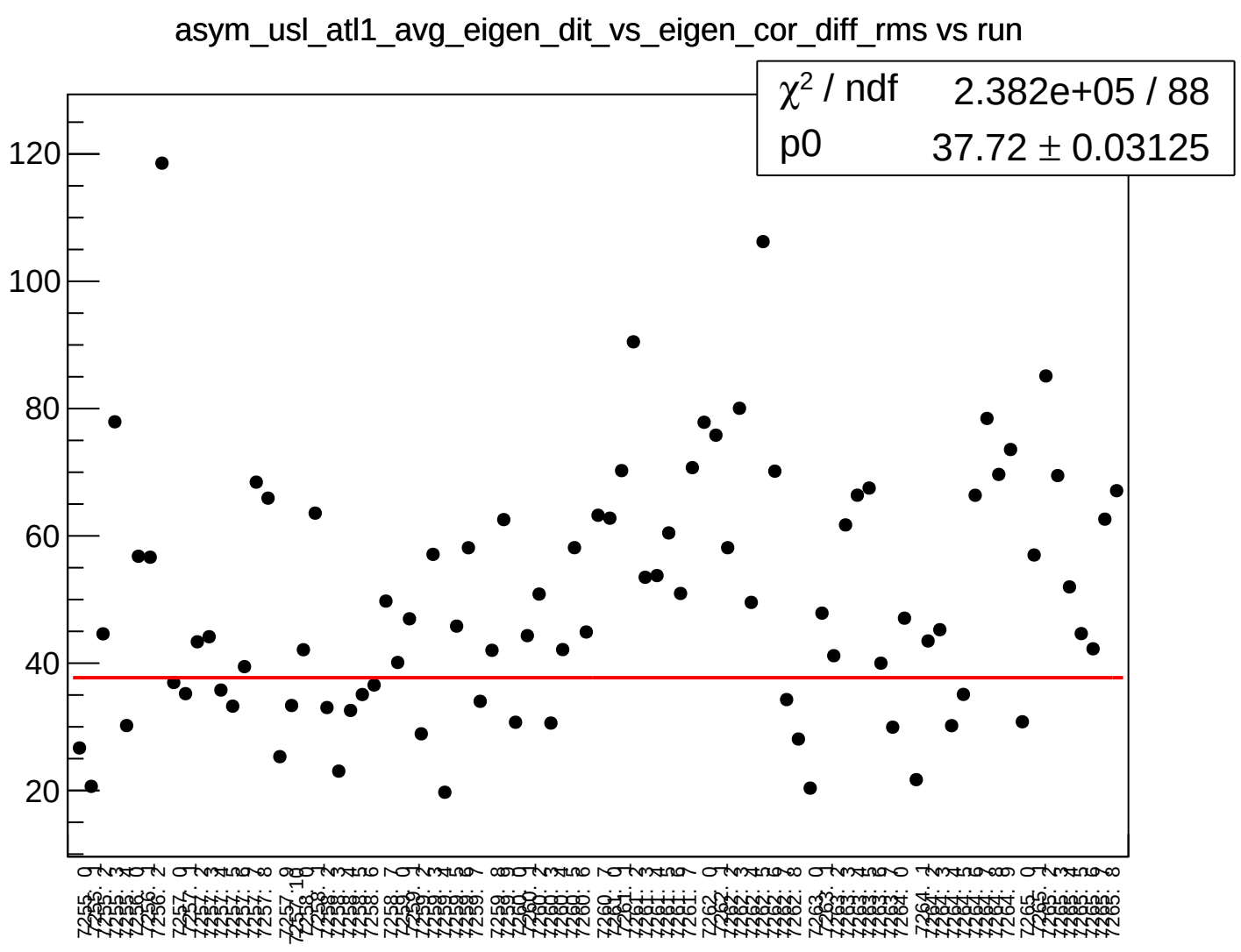

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.87 / 88
p0 1.143e−06 ± 2.324e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 89
Mean −4.393e+04
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 7.515e−05
Std Dev 0.9591
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

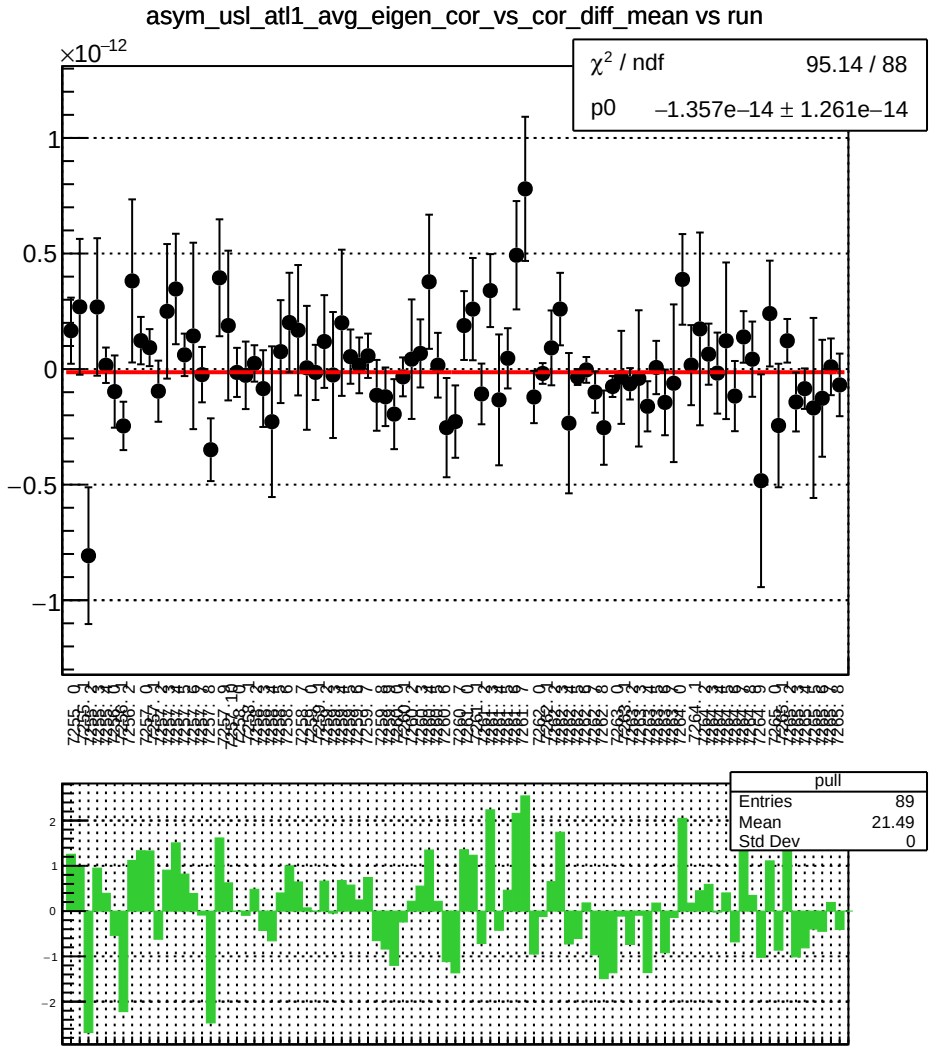

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6711 / 88
p0 0.002135 ± 1.643e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

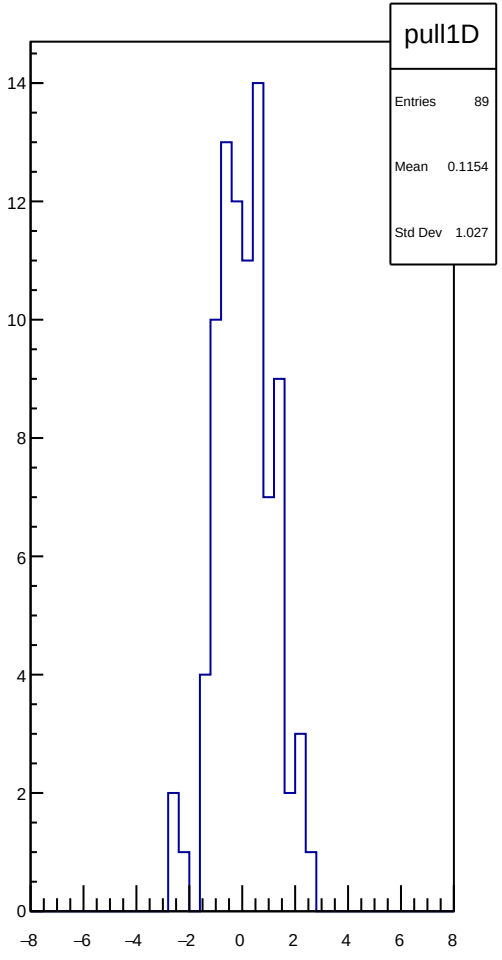

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.83 / 88
p0 −0.009234 ± 0.04419
pull
Entries 89
Mean −33.81
Std Dev 0
pull1D
Entries 89
Mean 0.06417
Std Dev 0.9269

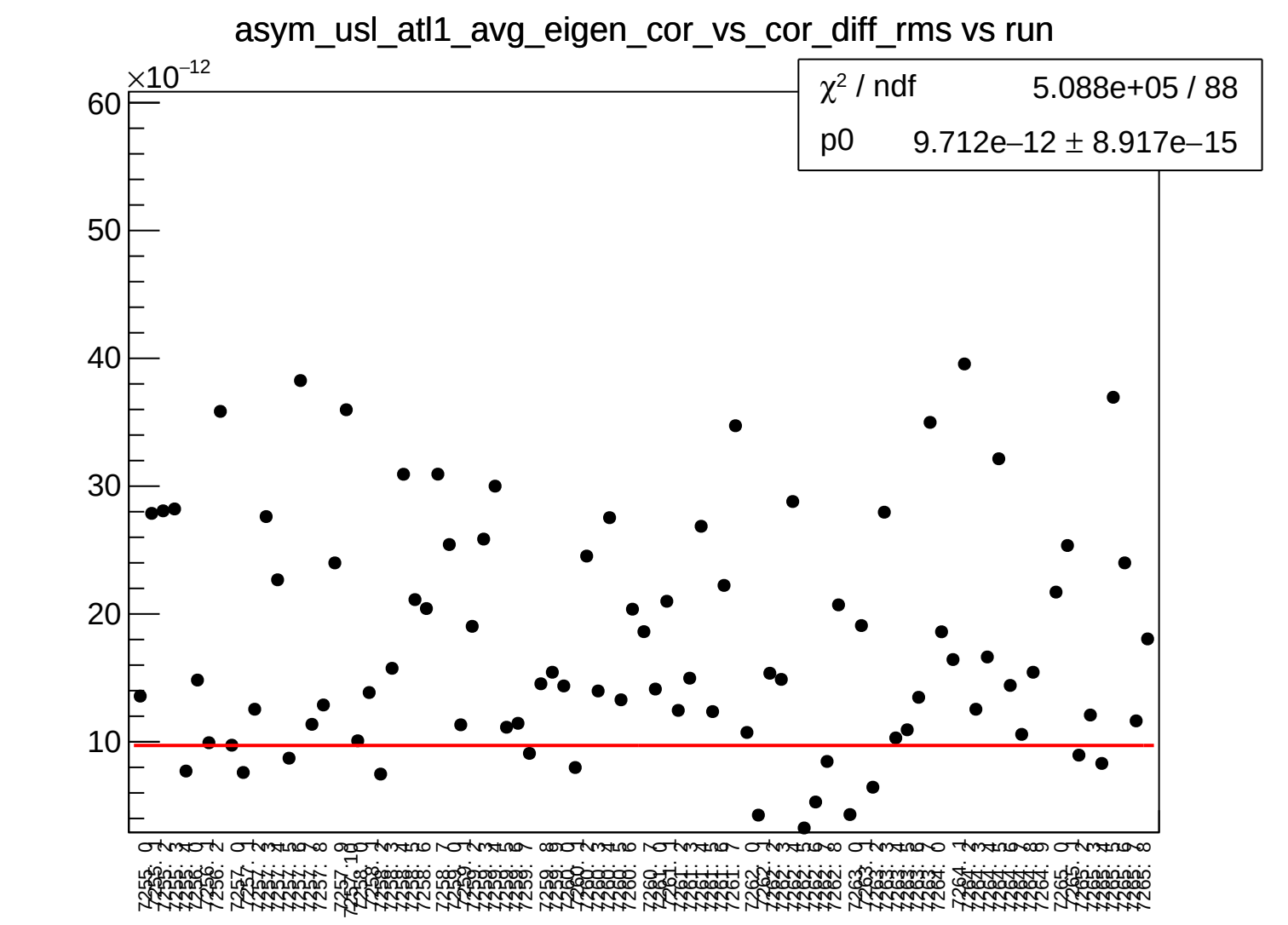

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.382e+05 / 88
p0 37.72 ± 0.03125
120
100
80
60
40
20

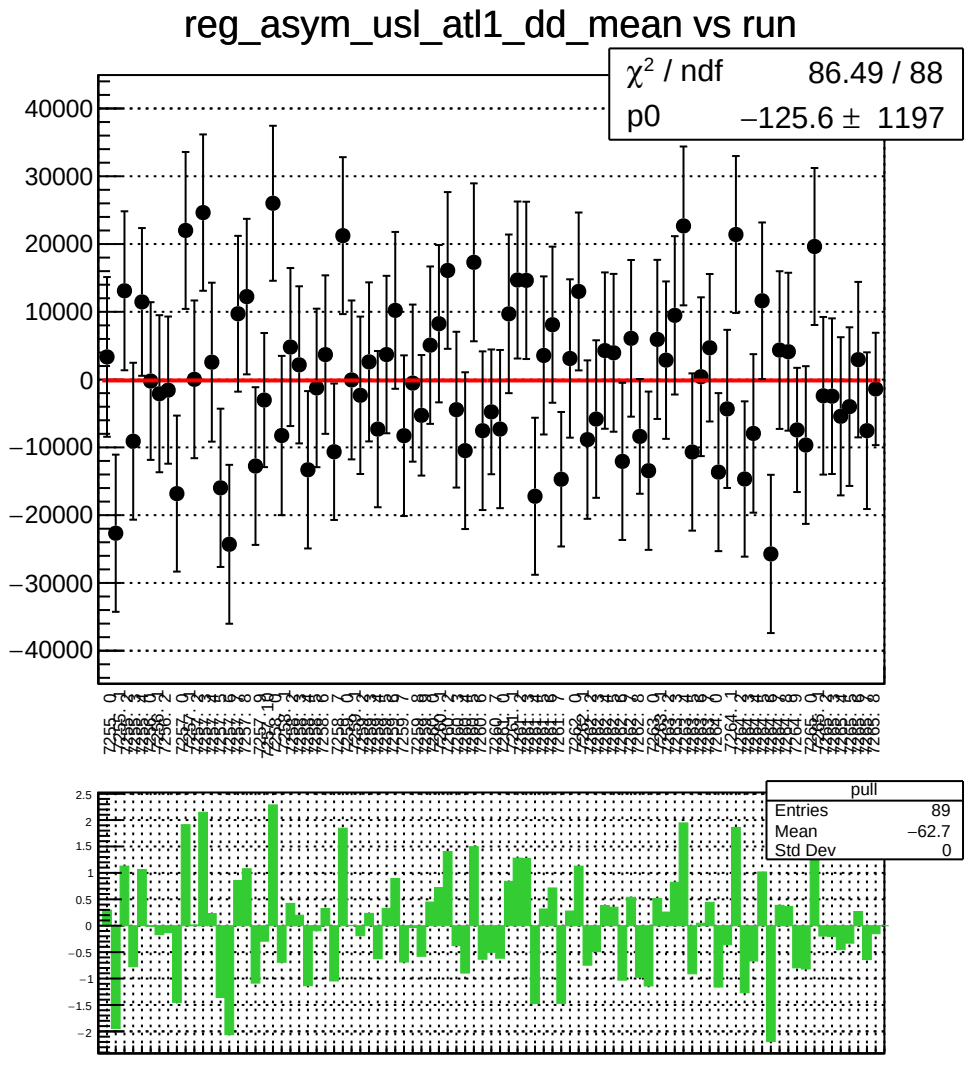

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.83 / 88
p0 −0.009234 ± 0.04419
pull
Entries 89
Mean −33.81
Std Dev 0
pull1D
Entries 89
Mean 0.06417
Std Dev 0.9269

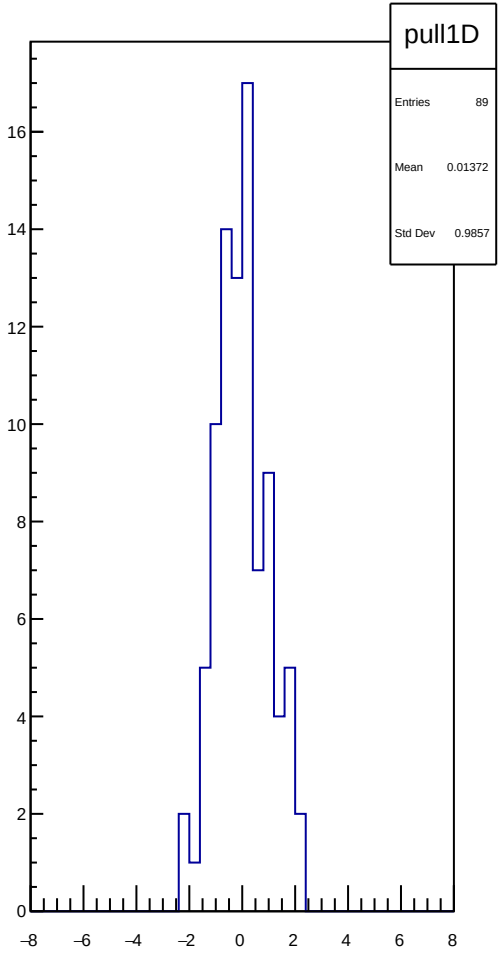

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.382e+05 / 88
p0 37.72 ± 0.03125
120
100
80
60
40
20

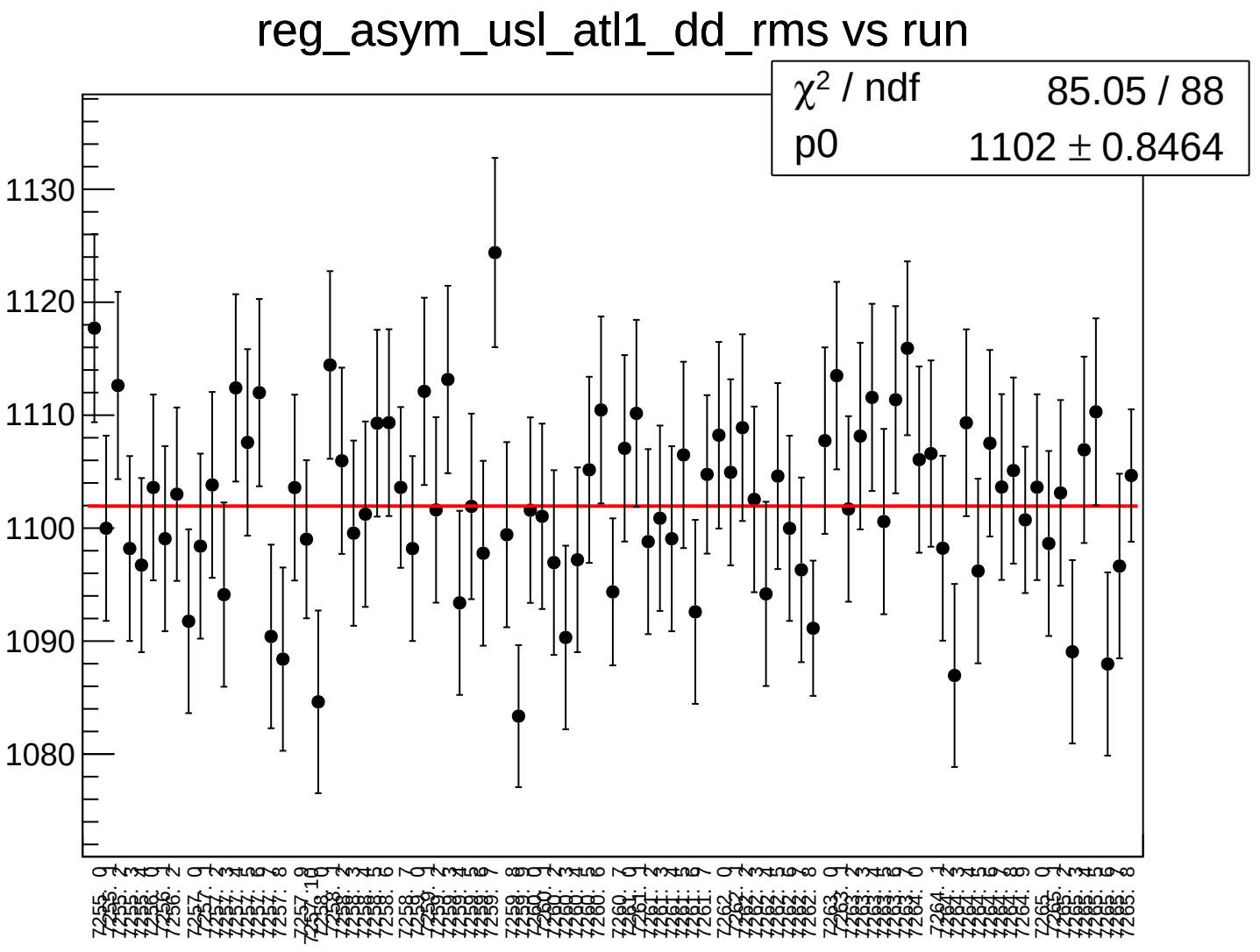

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.14 / 88
p0 −1.357e−14 ± 1.261e−14
pull
Entries 89
Mean 21.49
Std Dev 0

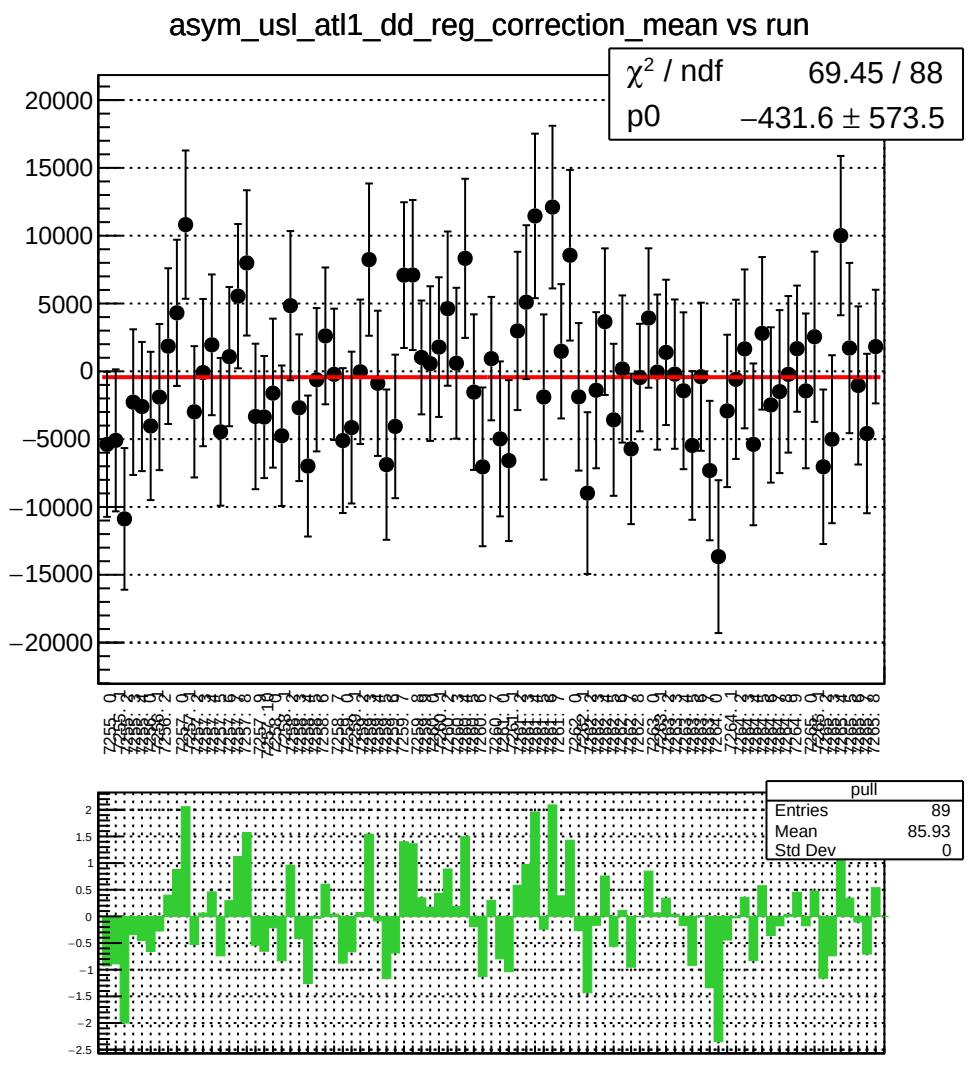

pull1D
Entries 89
Mean 0.1154
Std Dev 1.027

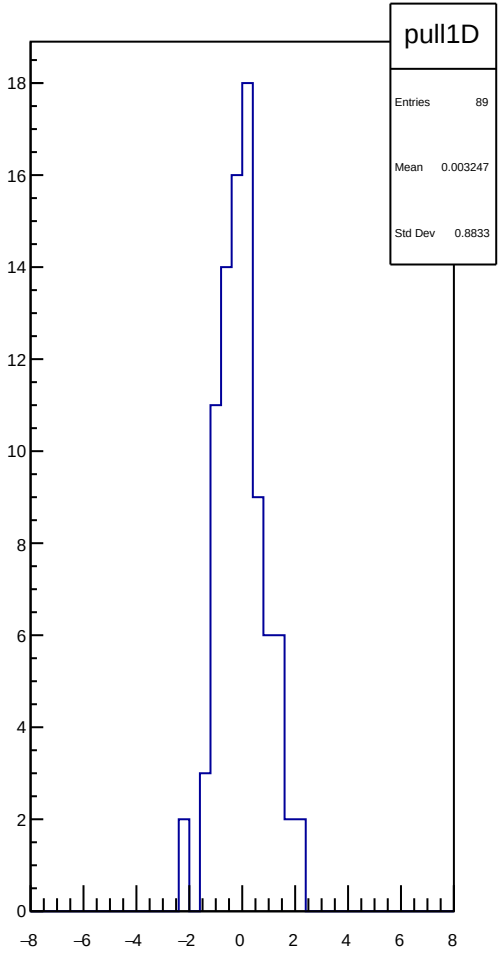

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 5.088e+05 / 88
p0 9.712e−12 ± 8.917e−15

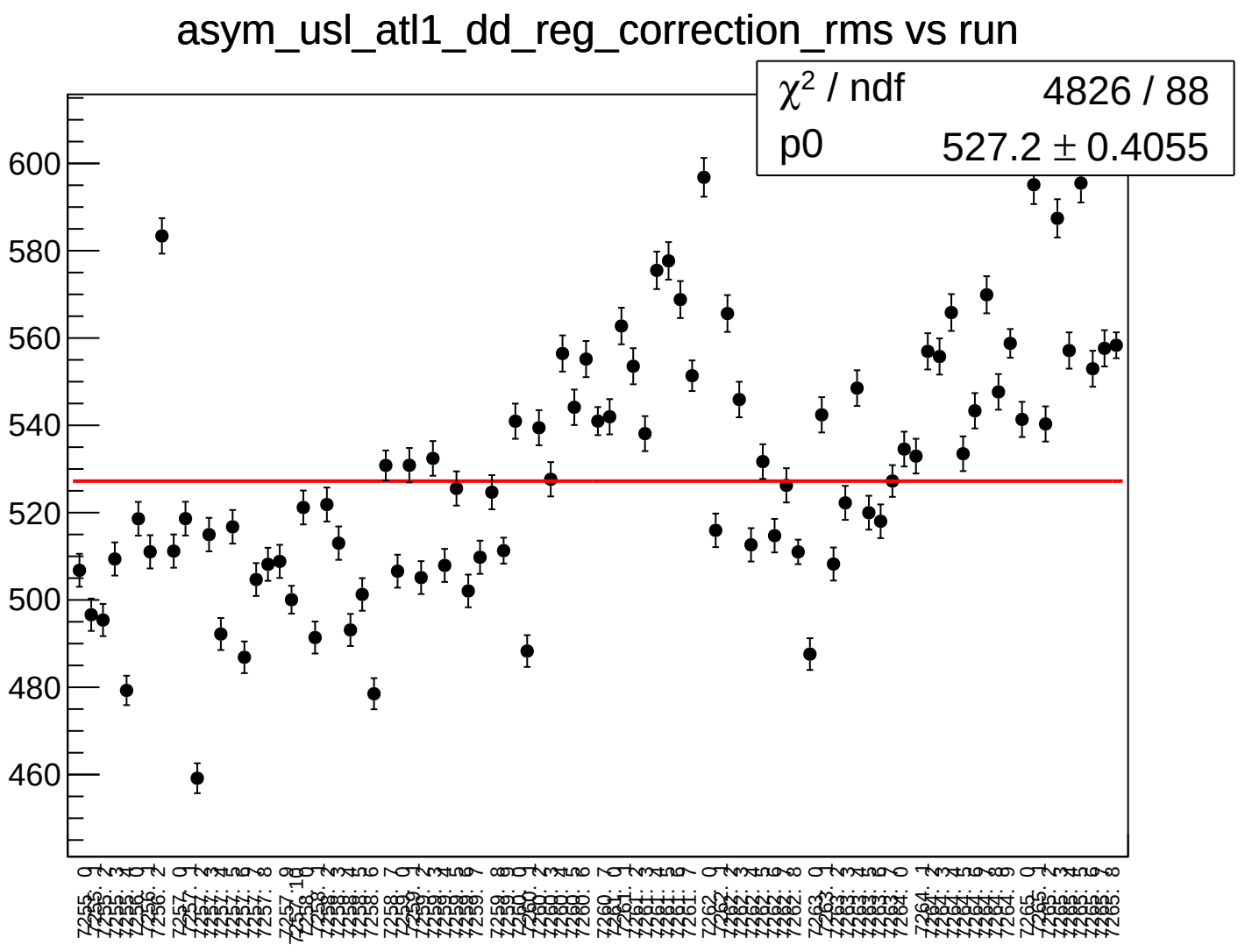

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 86.49 / 88
p0 −125.6 ± 1197
pull
Entries 89
Mean −62.7
Std Dev 0

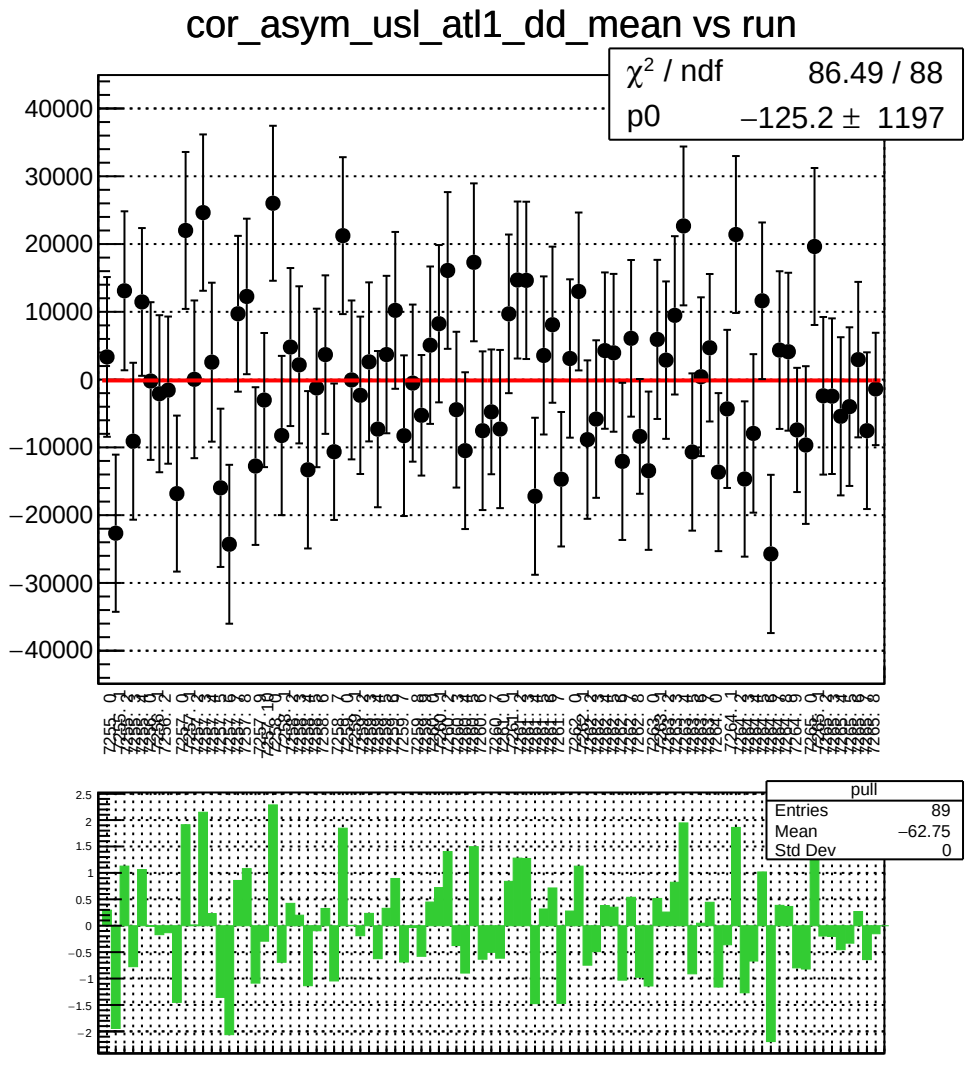

pull1D
Entries 89
Mean 0.01372
Std Dev 0.9857

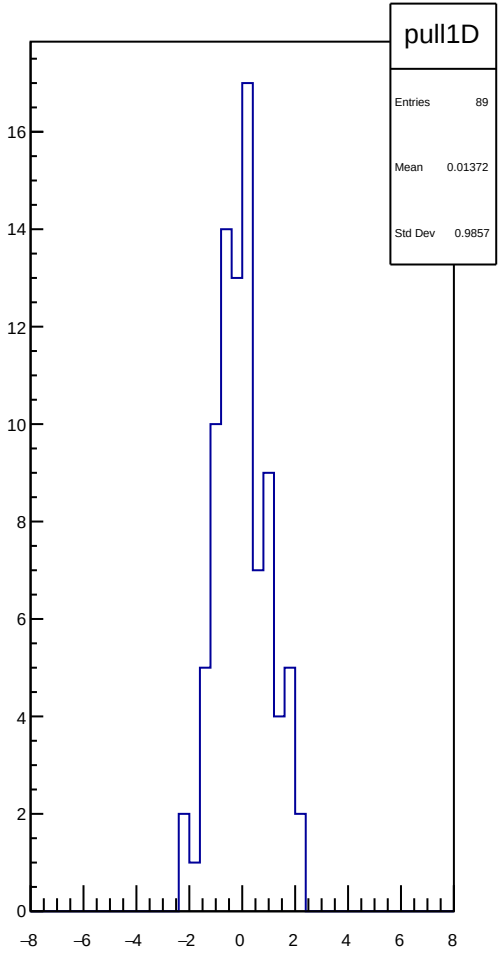

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 85.05 / 88
p0 1102 ± 0.8464
1130
1120
1110
1100
1090
1080

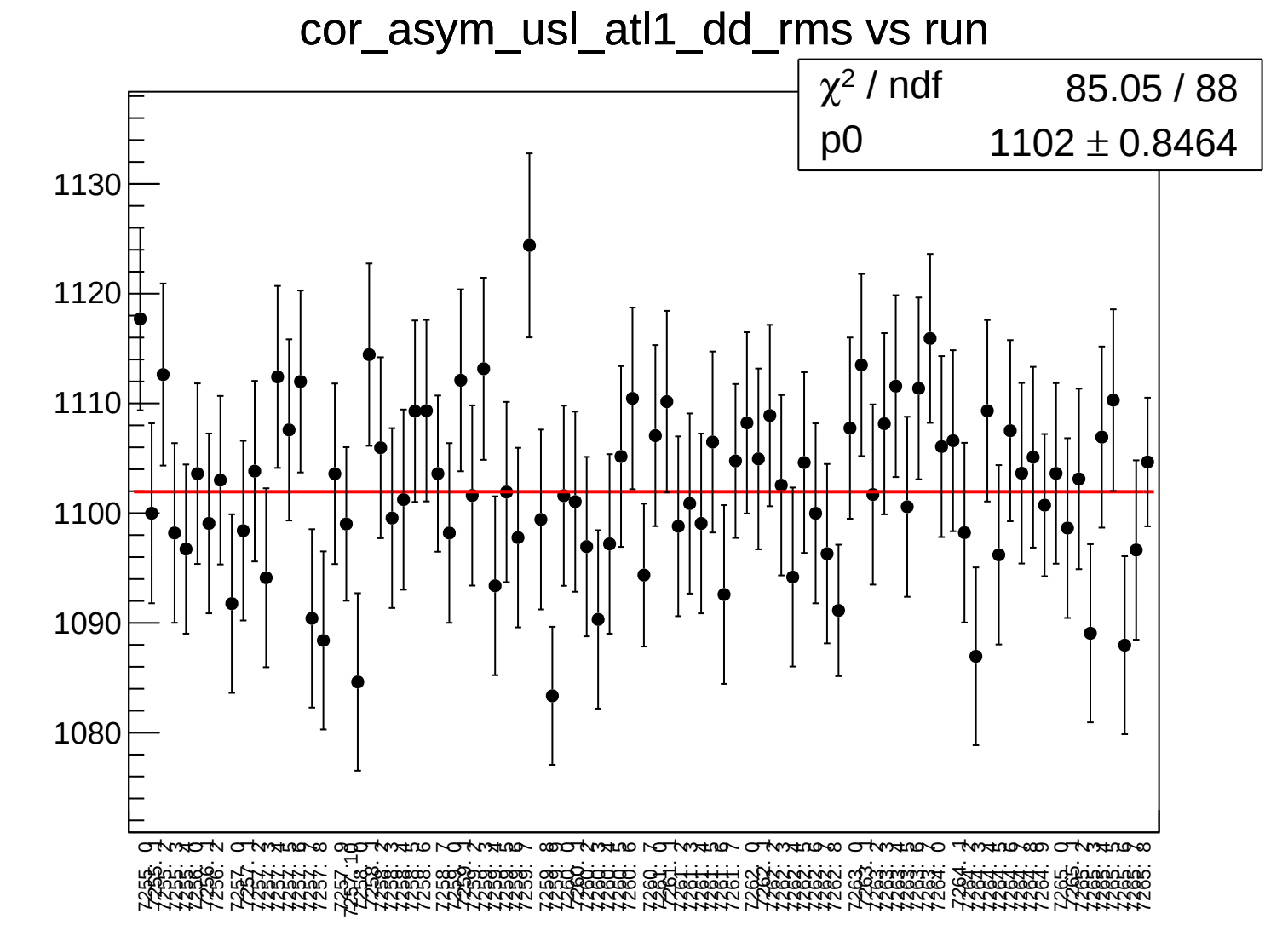

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 69.45 / 88
p0 −431.6 ± 573.5
pull
Entries 89
Mean 85.93
Std Dev 0

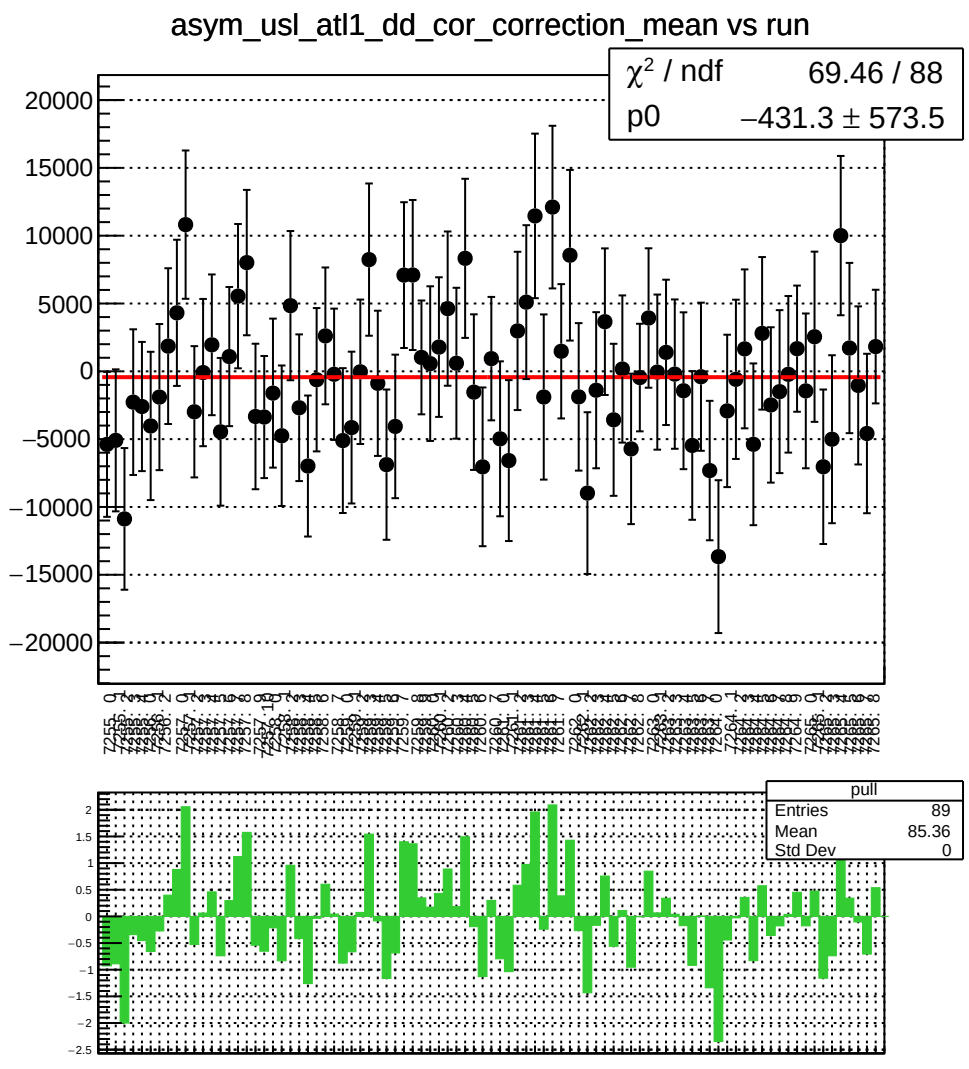

pull1D
Entries 89
Mean 0.003247
Std Dev 0.8833

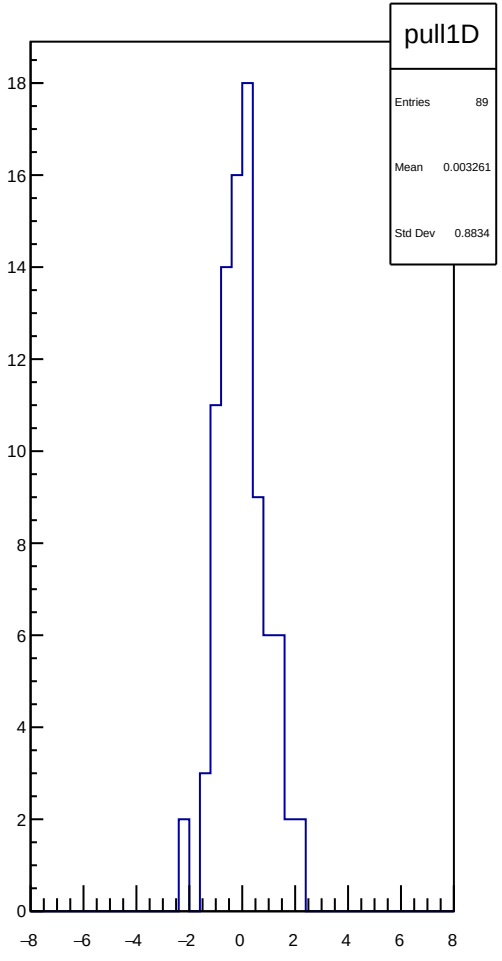

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 4826 / 88
p0 527.2 ± 0.4055
600
580
560
540
520
500
480
460

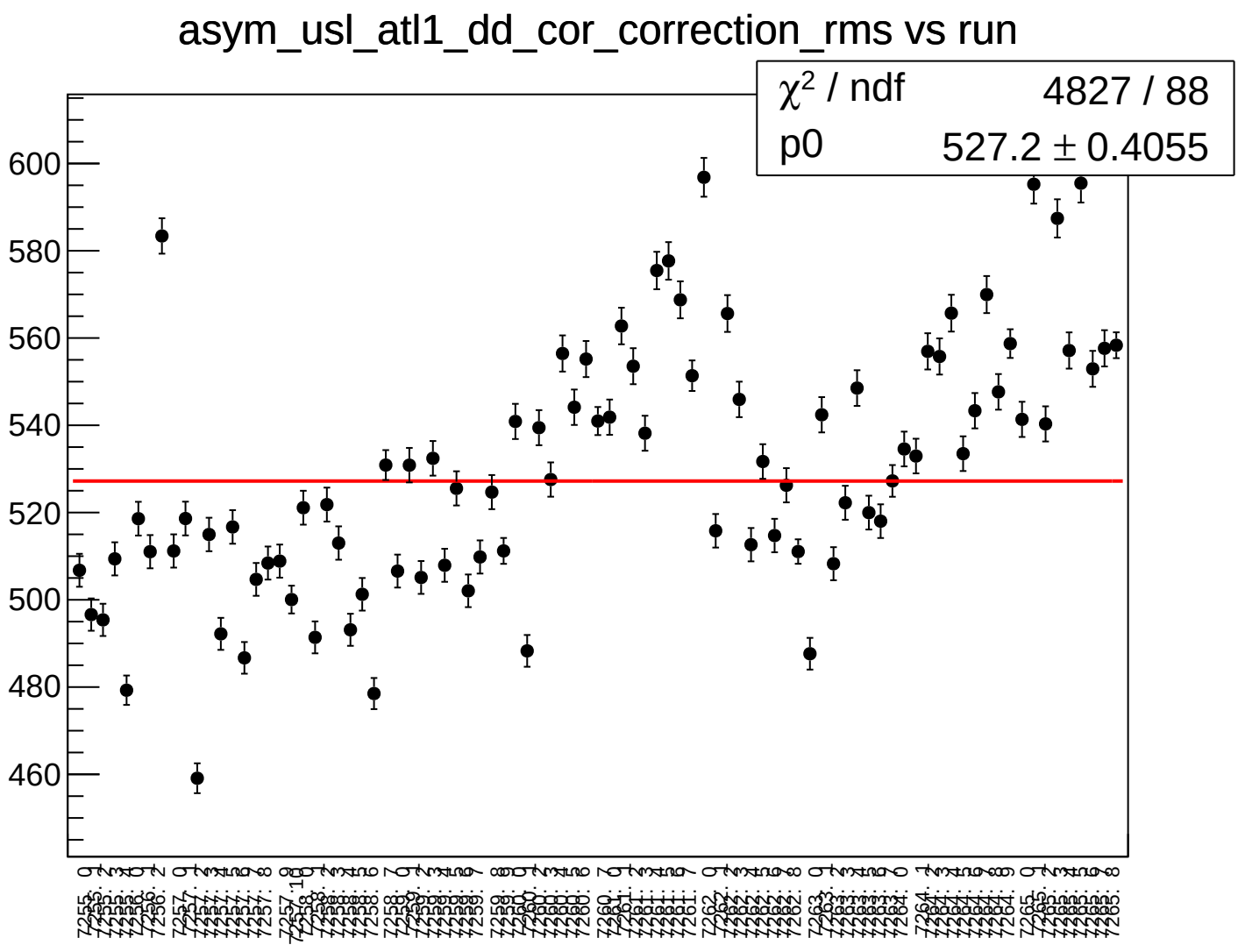

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 86.49 / 88
p0 −125.2 ± 1197
pull
Entries 89
Mean −62.75
Std Dev 0

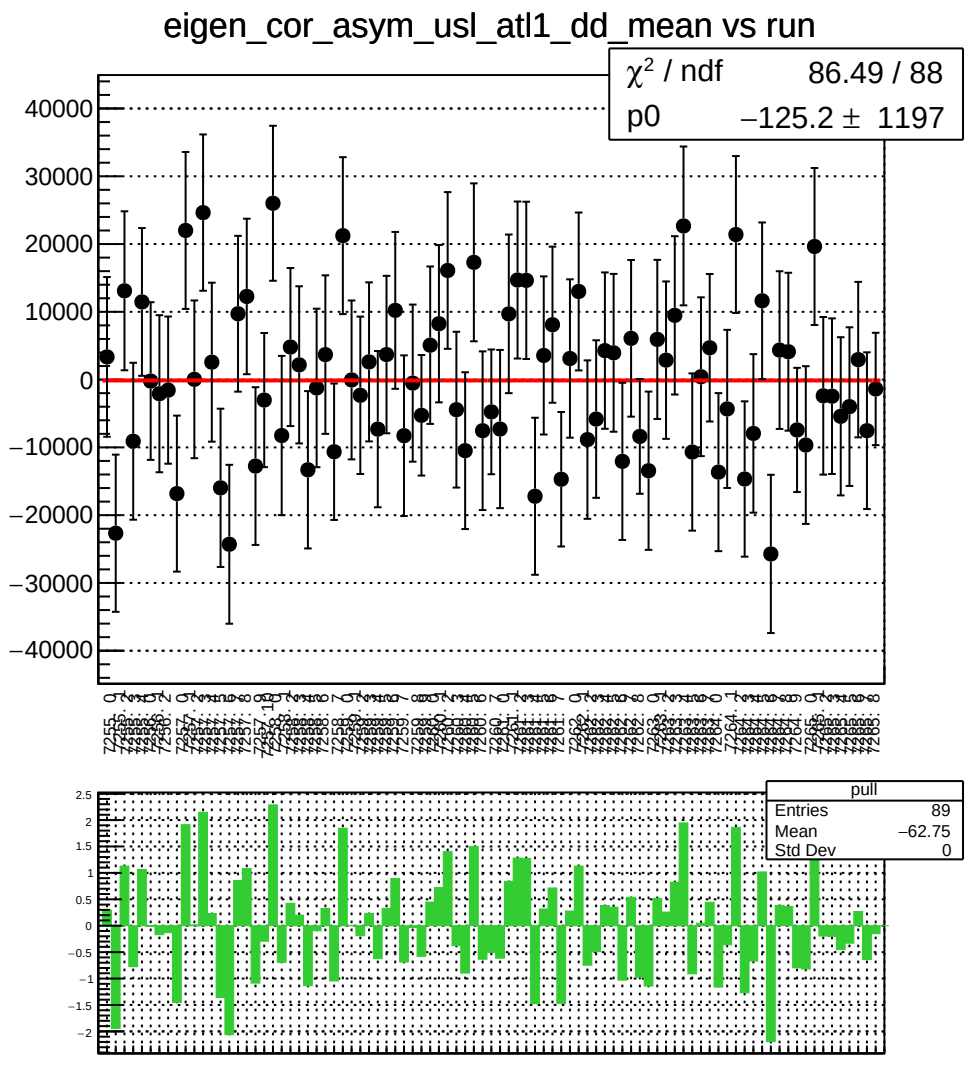

pull1D
Entries 89
Mean 0.01372
Std Dev 0.9857

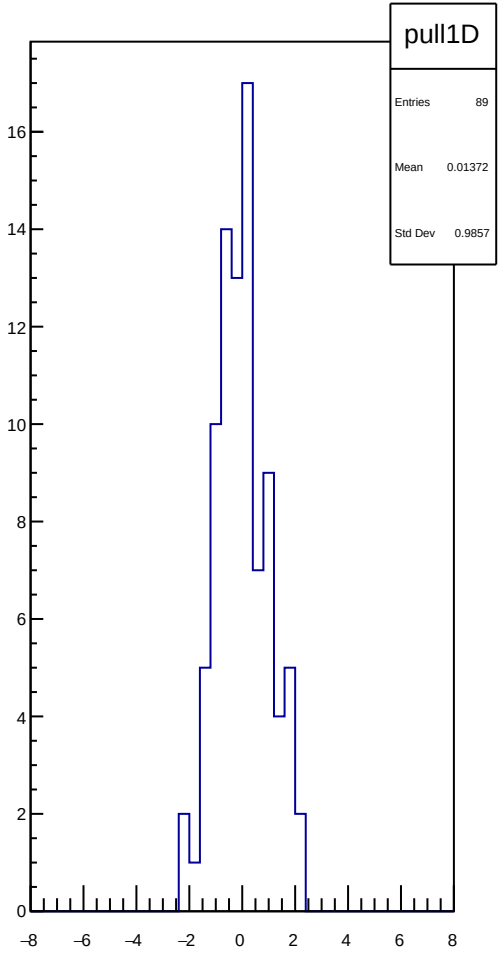

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 85.05 / 88
p0 1102 ± 0.8464
1130
1120
1110
1100
1090
1080

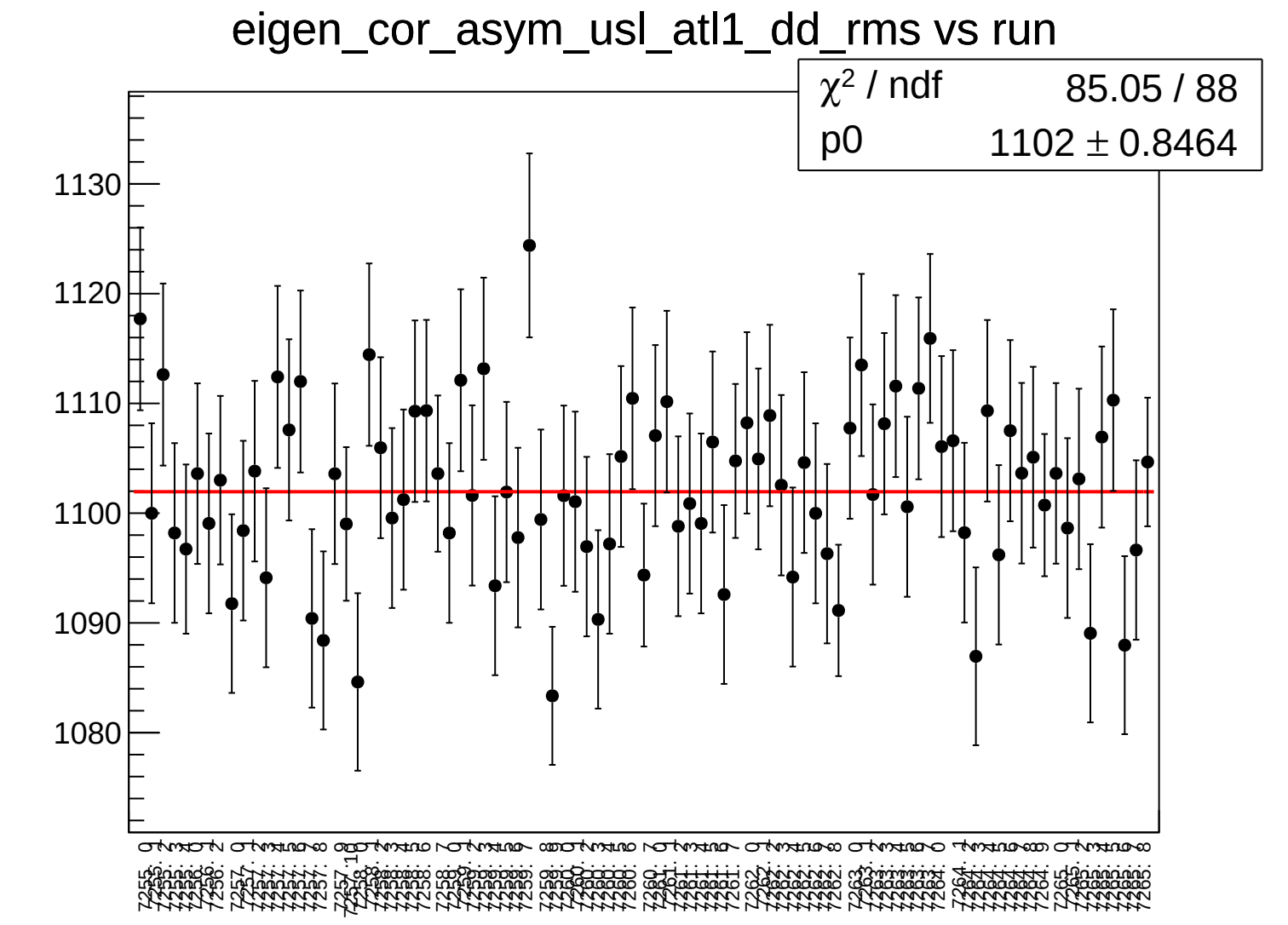

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 69.46 / 88
p0 −431.3 ± 573.5
pull
Entries 89
Mean 85.36
Std Dev 0

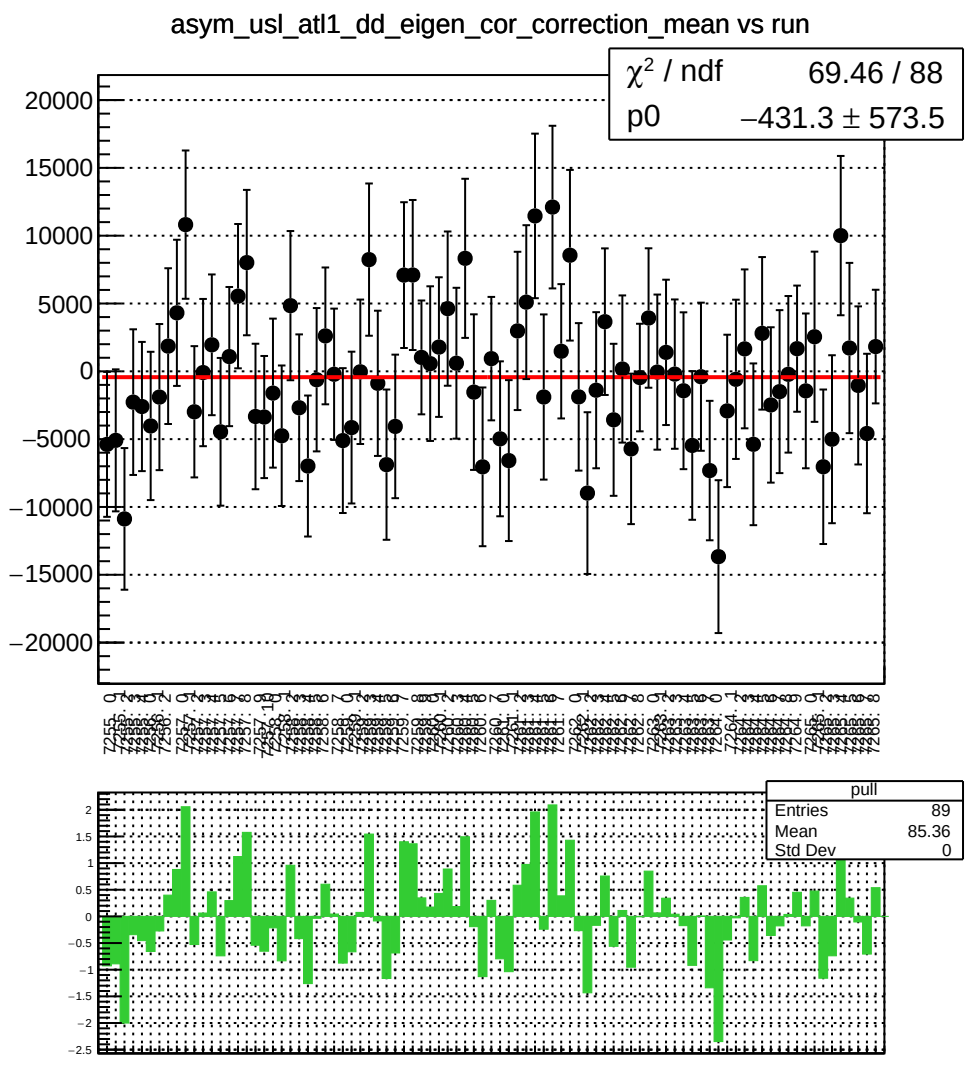

pull1D
Entries 89
Mean 0.003261
Std Dev 0.8834

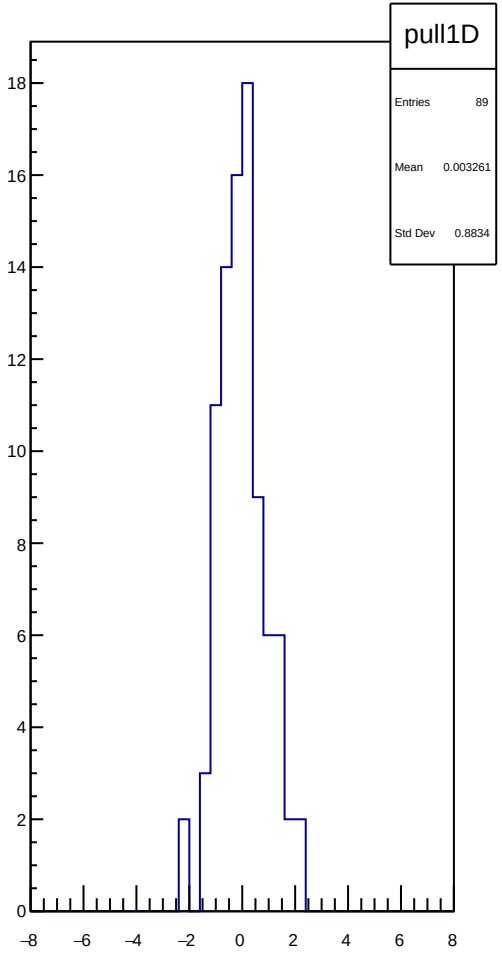

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 4827 / 88
p0 527.2 ± 0.4055
600
580
560
540
520
500
480
460

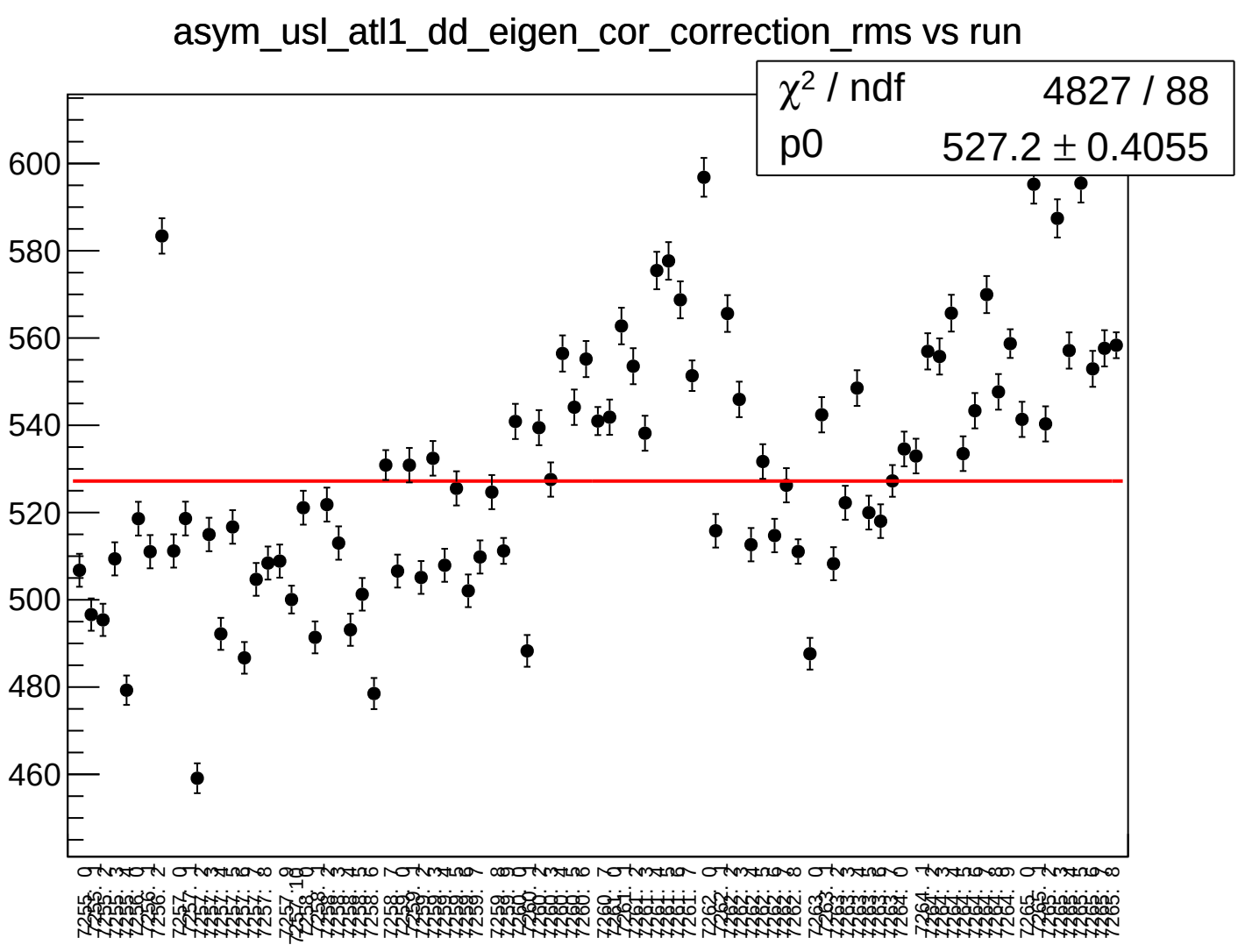

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 86.49 / 88
p0 −125.2 ± 1197
pull
Entries 89
Mean −62.75
Std Dev 0

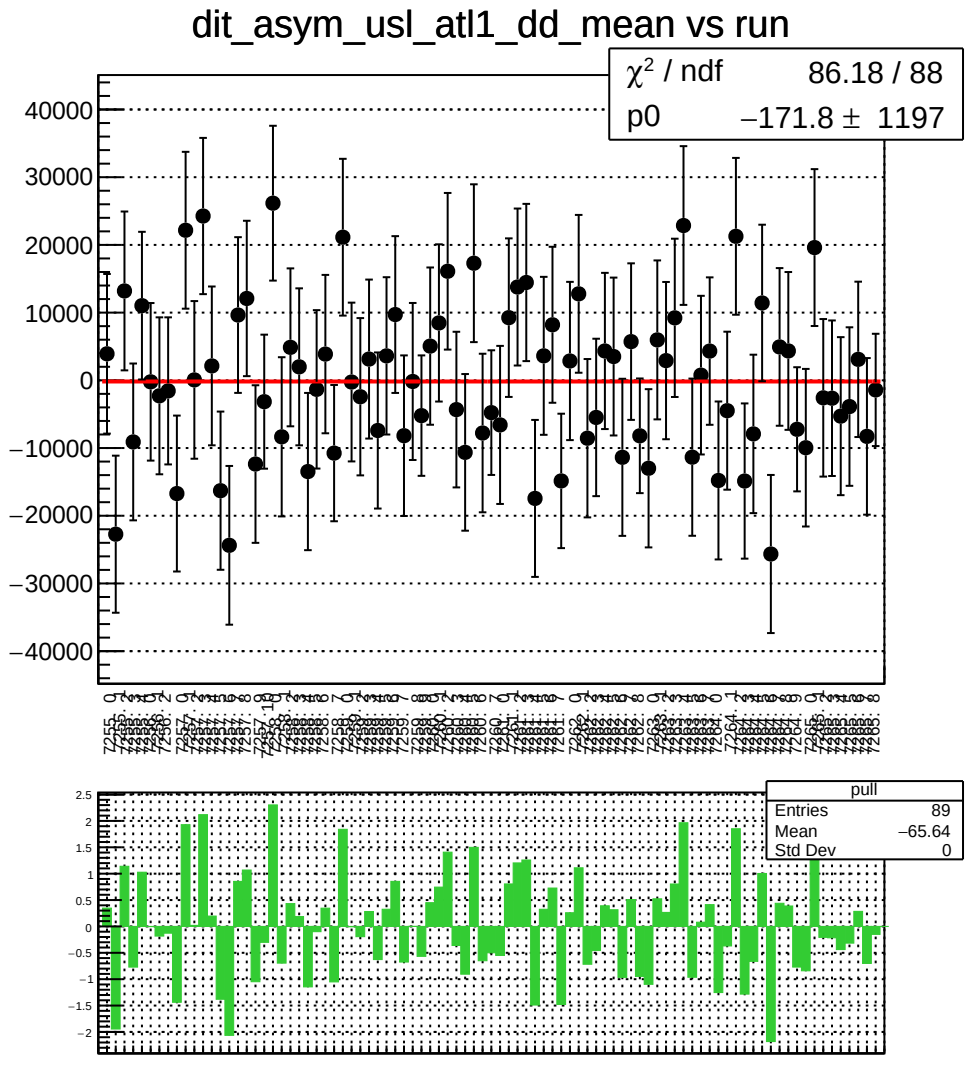

pull1D
Entries 89
Mean 0.01372
Std Dev 0.9857

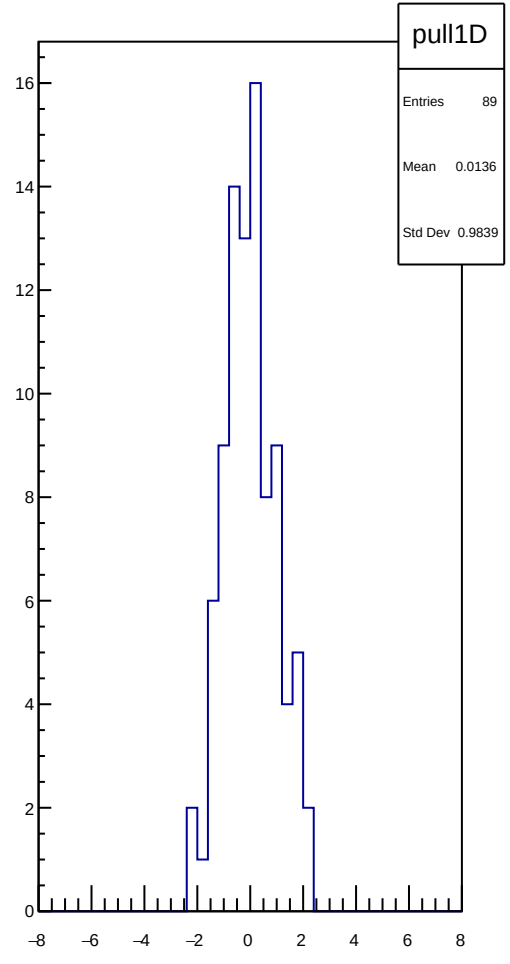

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 85.05 / 88
p0 1102 ± 0.8464
1130
1120
1110
1100
1090
1080

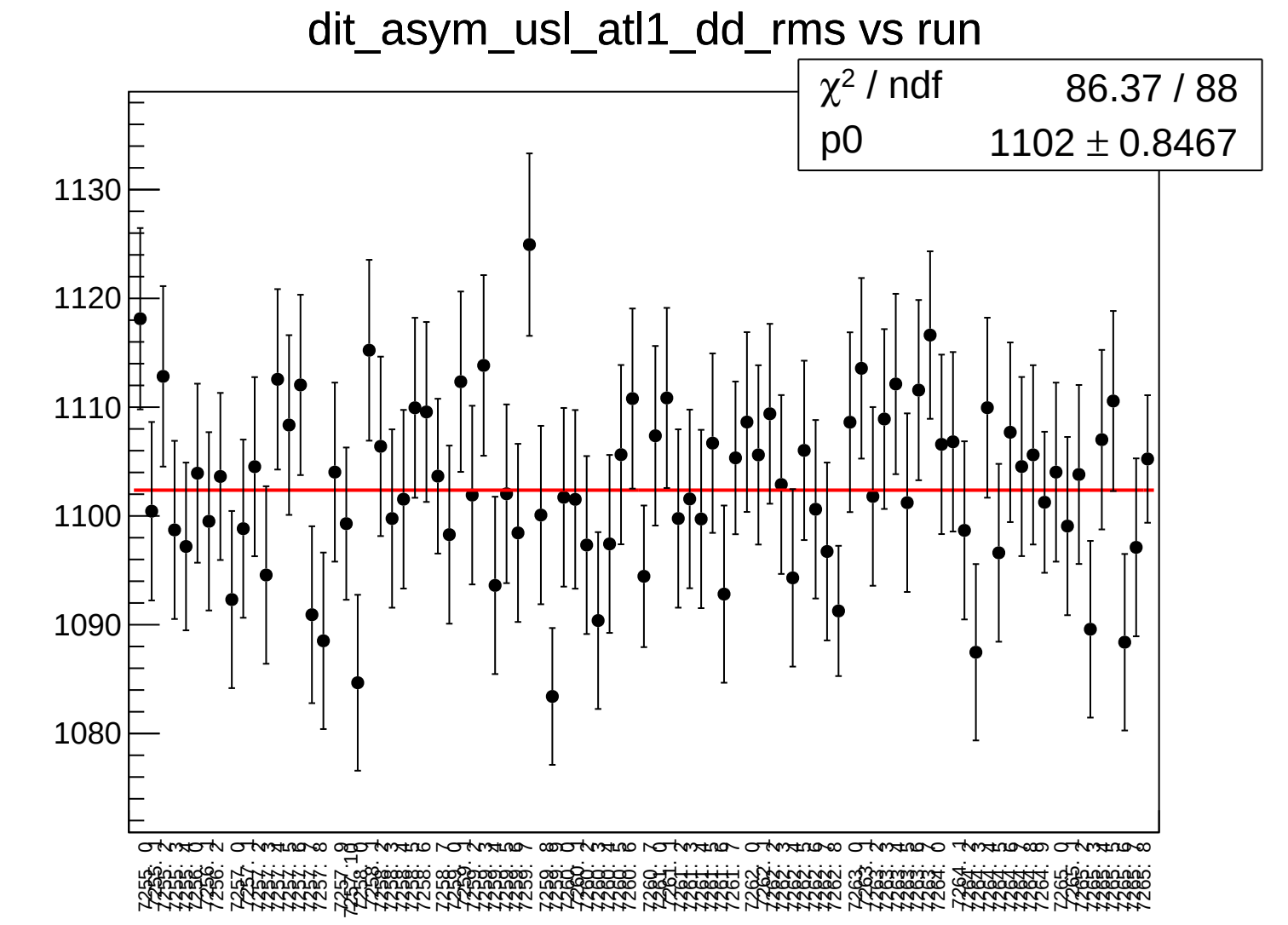

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.46 / 88
p0 −431.3 ± 573.5
pull
Entries 89
Mean 85.36
Std Dev 0

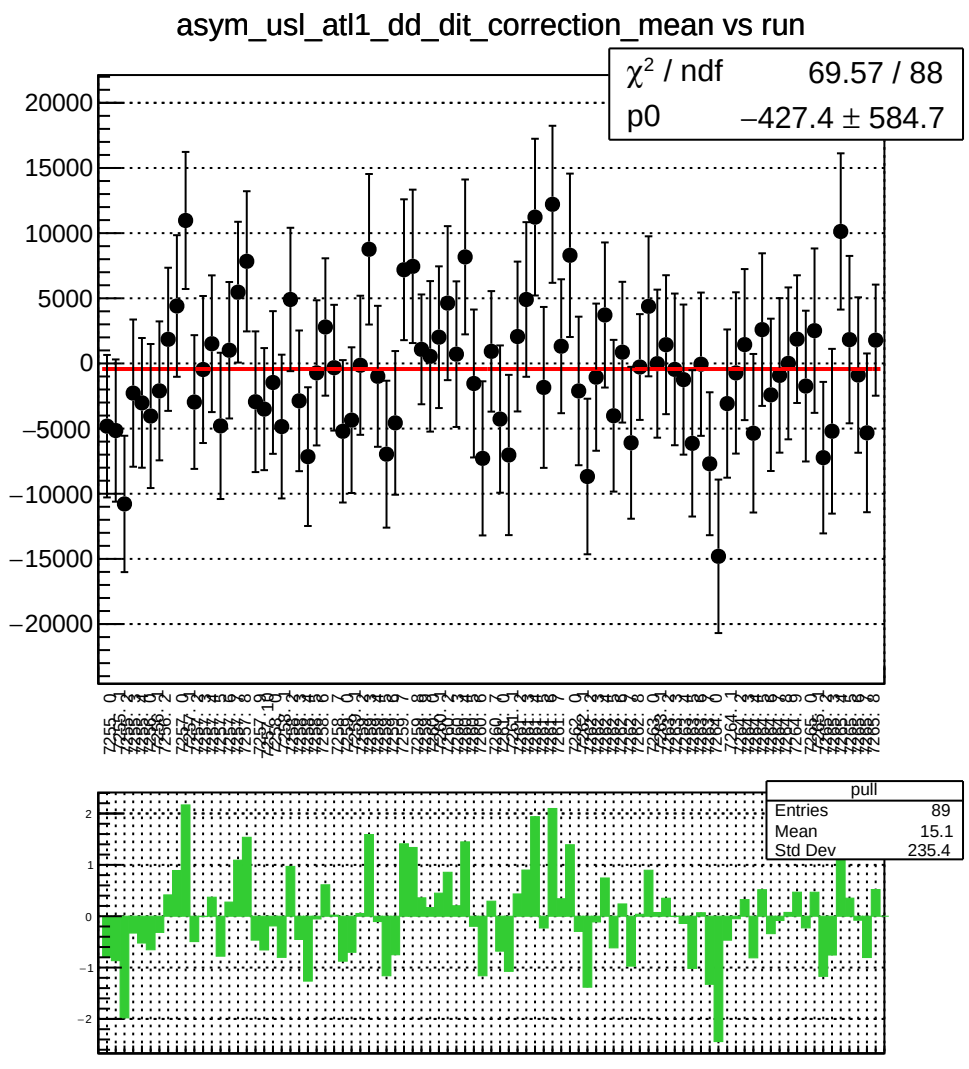

pull1D
Entries 89
Mean 0.003261
Std Dev 0.8834

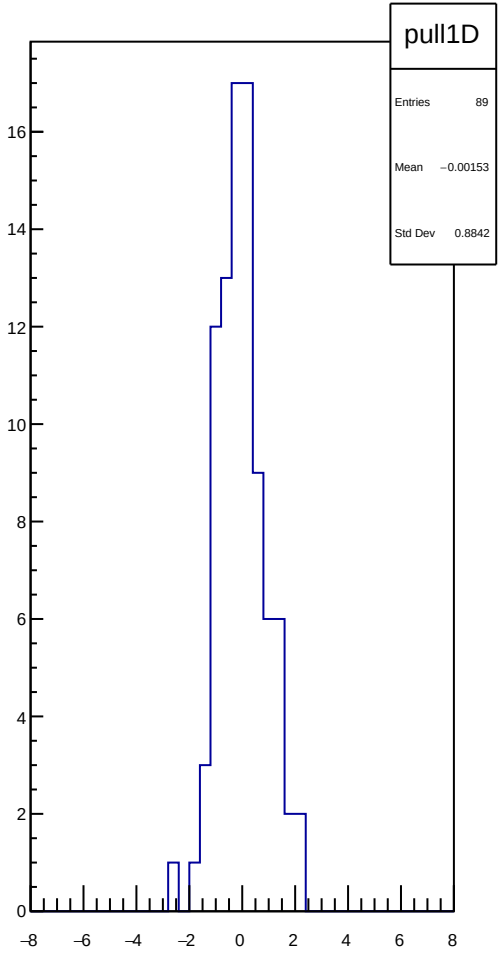

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4827 / 88
p0 527.2 ± 0.4055
600
580
560
540
520
500
480
460

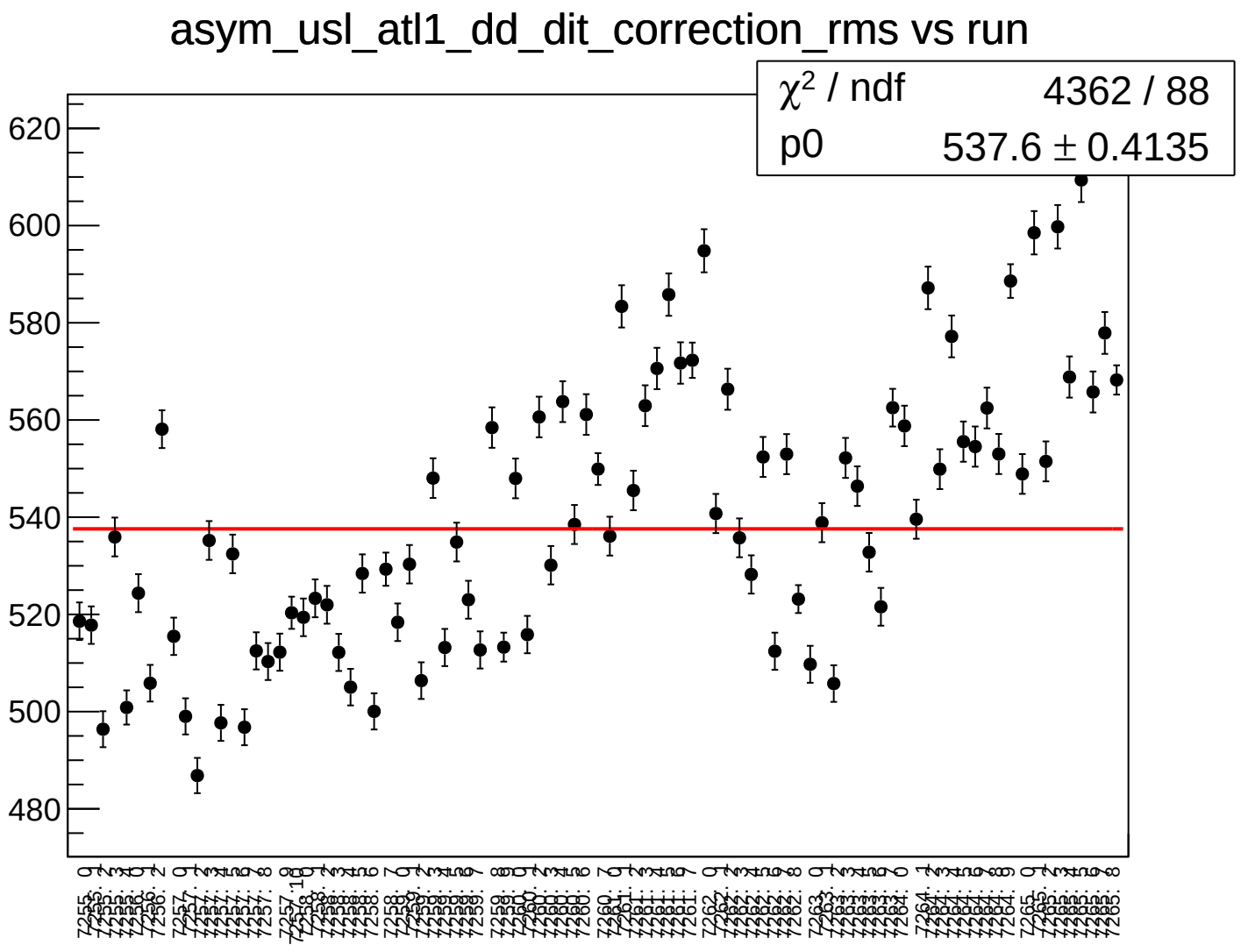

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 86.18 / 88
p0 −171.8 ± 1197
pull
Entries 89
Mean −65.64
Std Dev 0

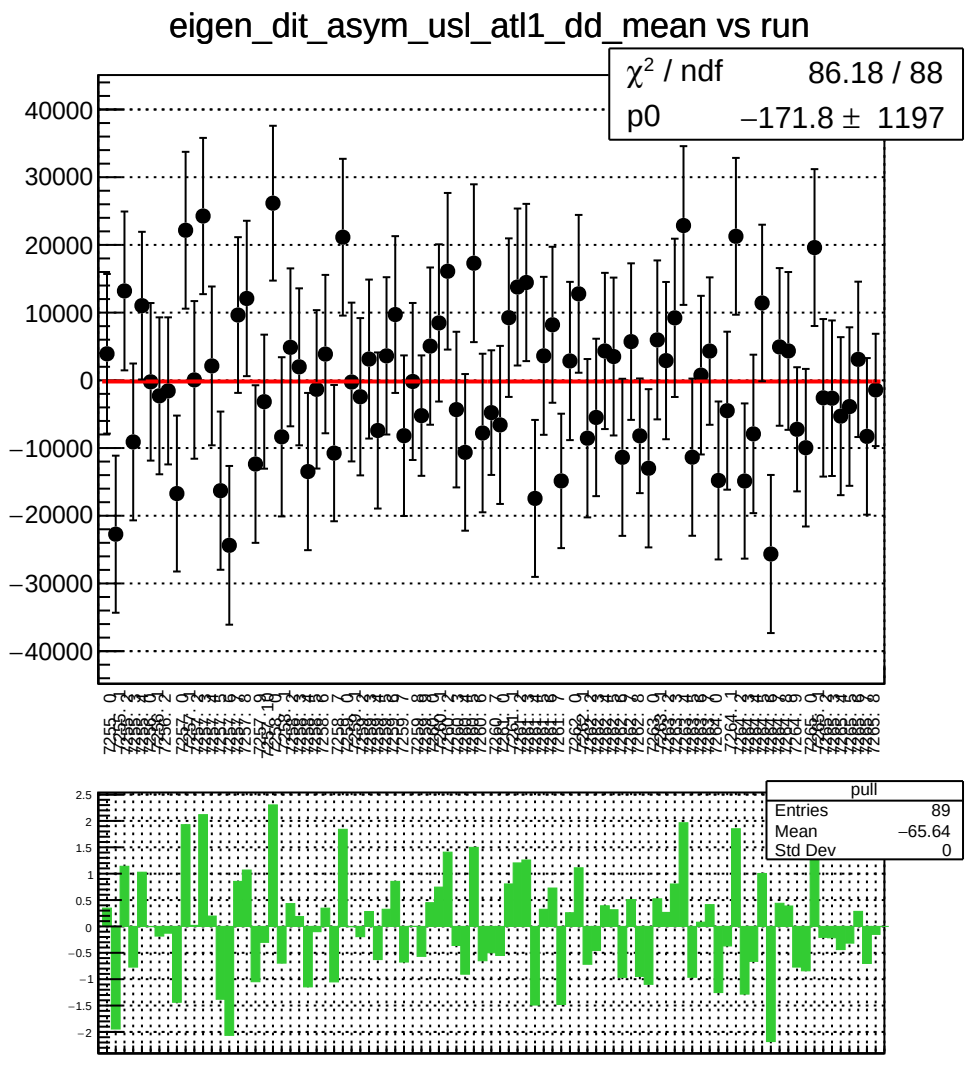

pull1D
Entries 89
Mean 0.0136
Std Dev 0.9839

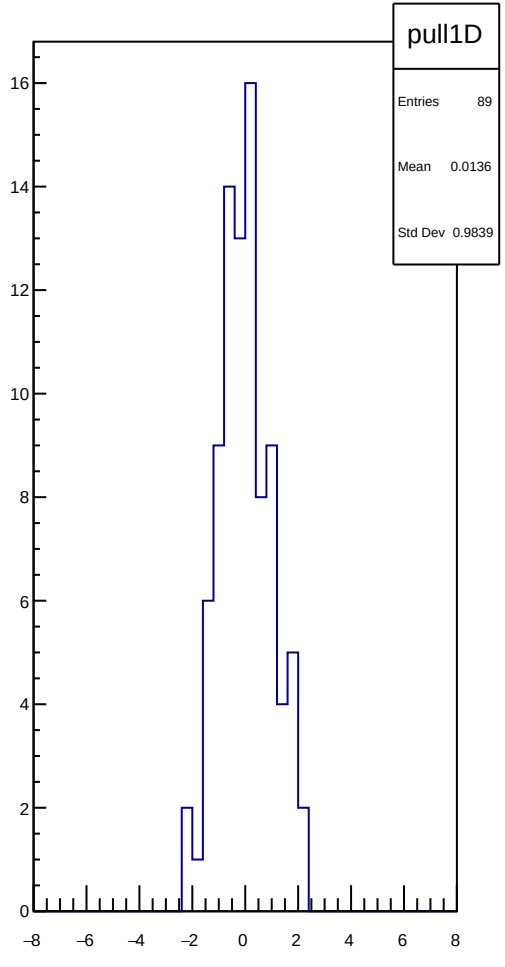

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 86.37 / 88
p0 1102 ± 0.8467
1130
1120
1110
1100
1090
1080

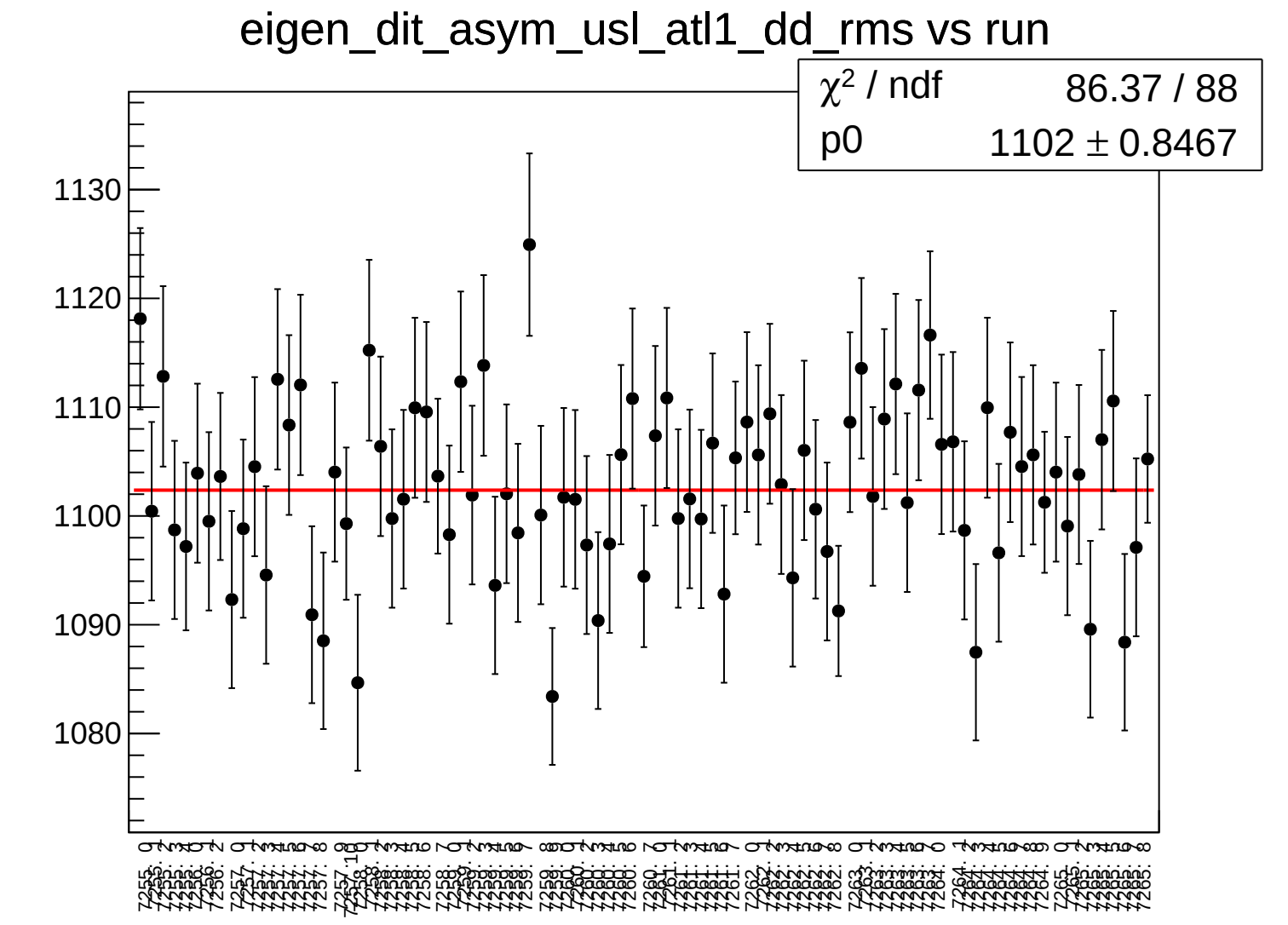

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 69.57 / 88
p0 −427.4 ± 584.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 15.1
Std Dev 235.4
2
1
0
−1
−2

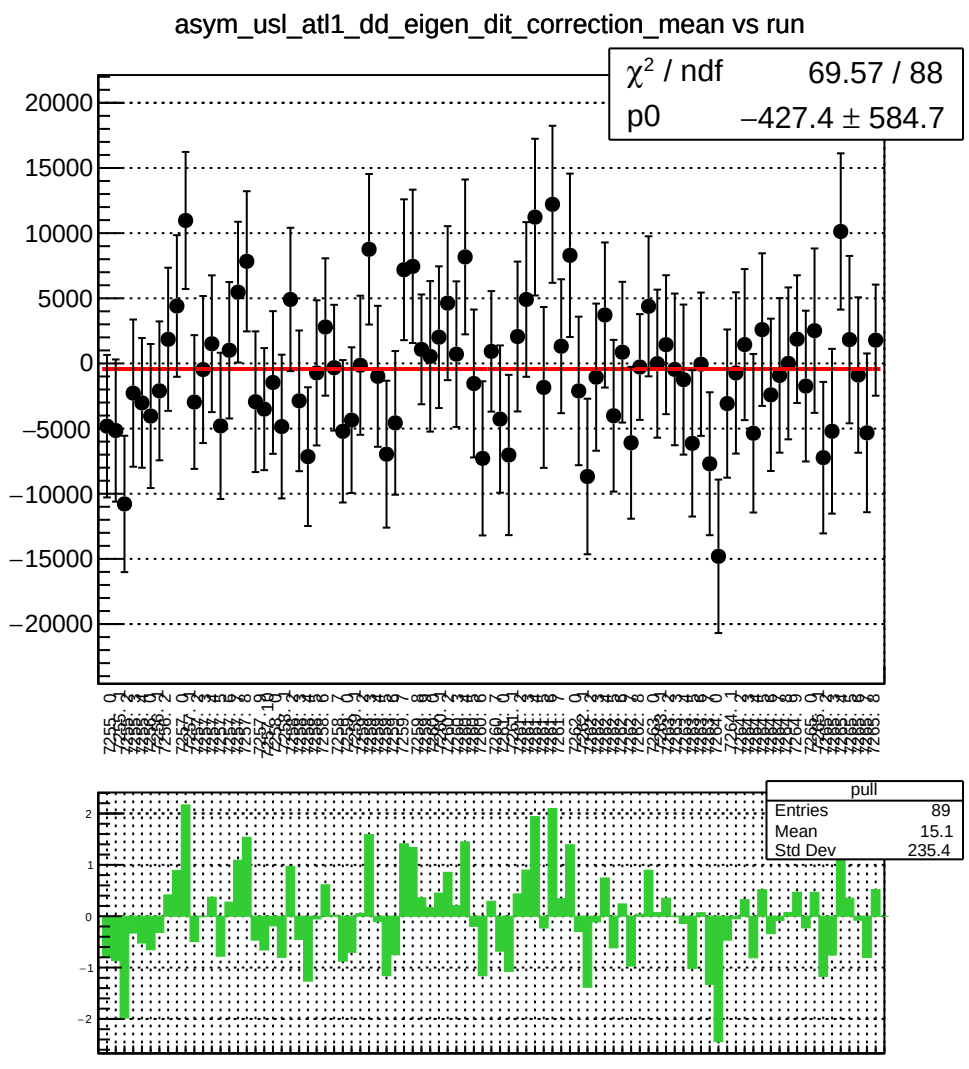

pull1D
Entries 89
Mean −0.00153
Std Dev 0.8842
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

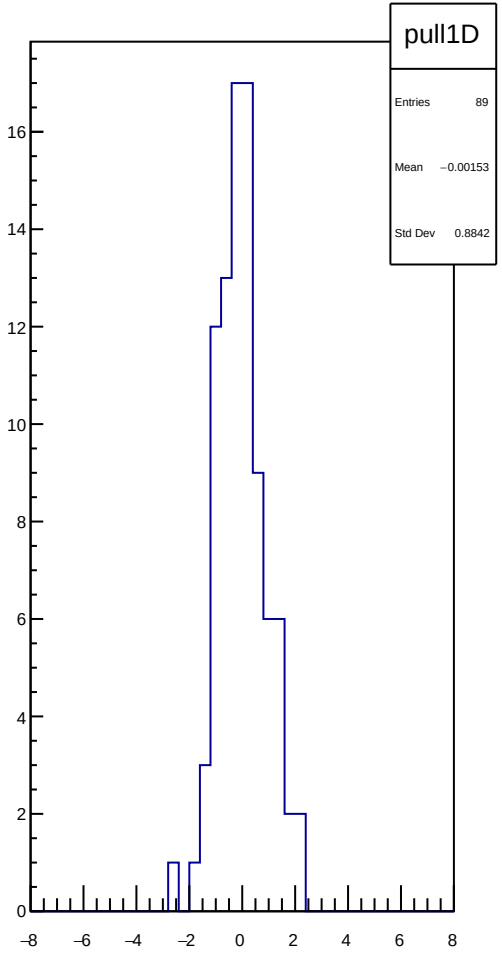

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 4362 / 88
p0 537.6 ± 0.4135
620
600
580
560
540
520
500
480

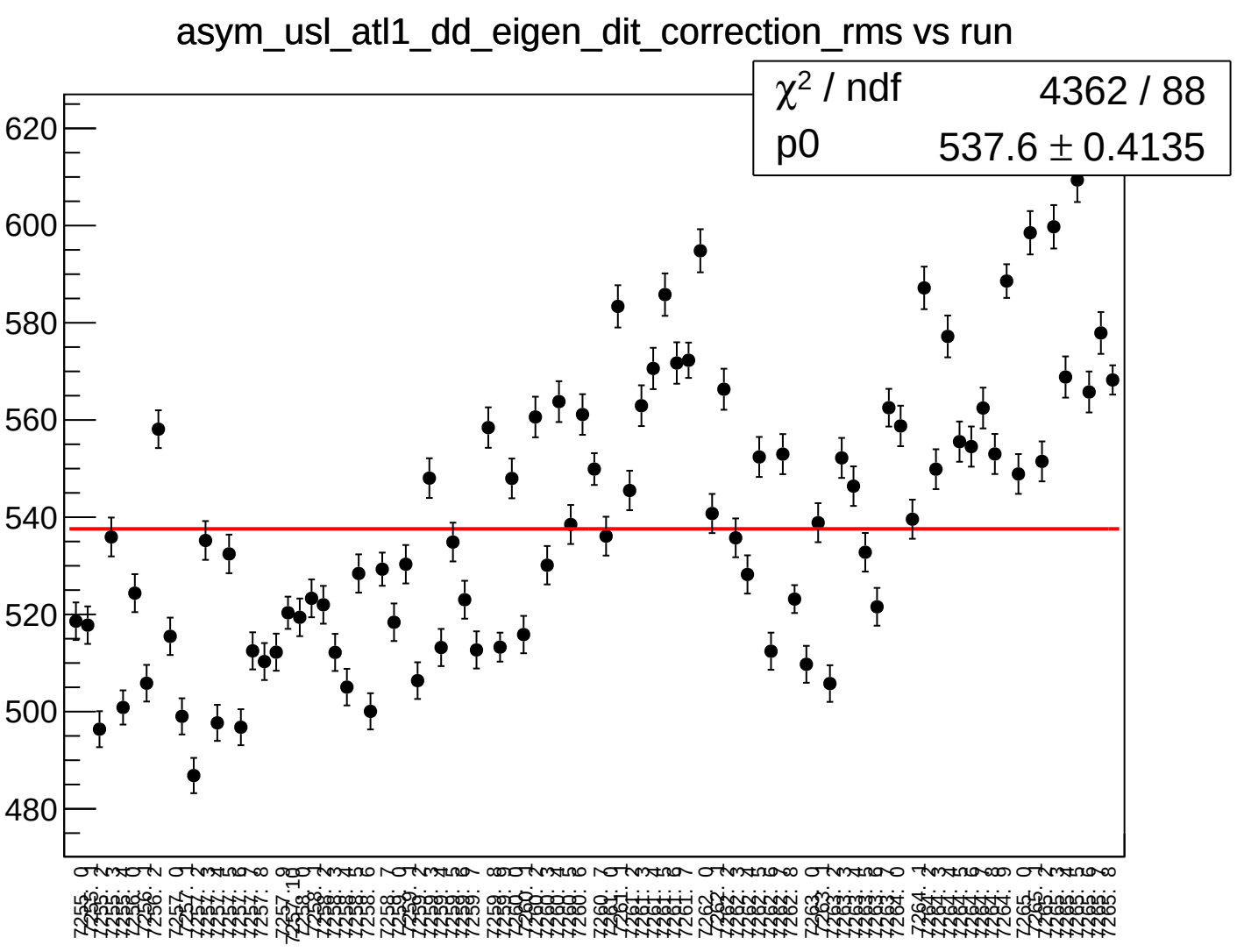

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 86.18 / 88
p0 −171.8 ± 1197
pull
Entries 89
Mean −65.64
Std Dev 0

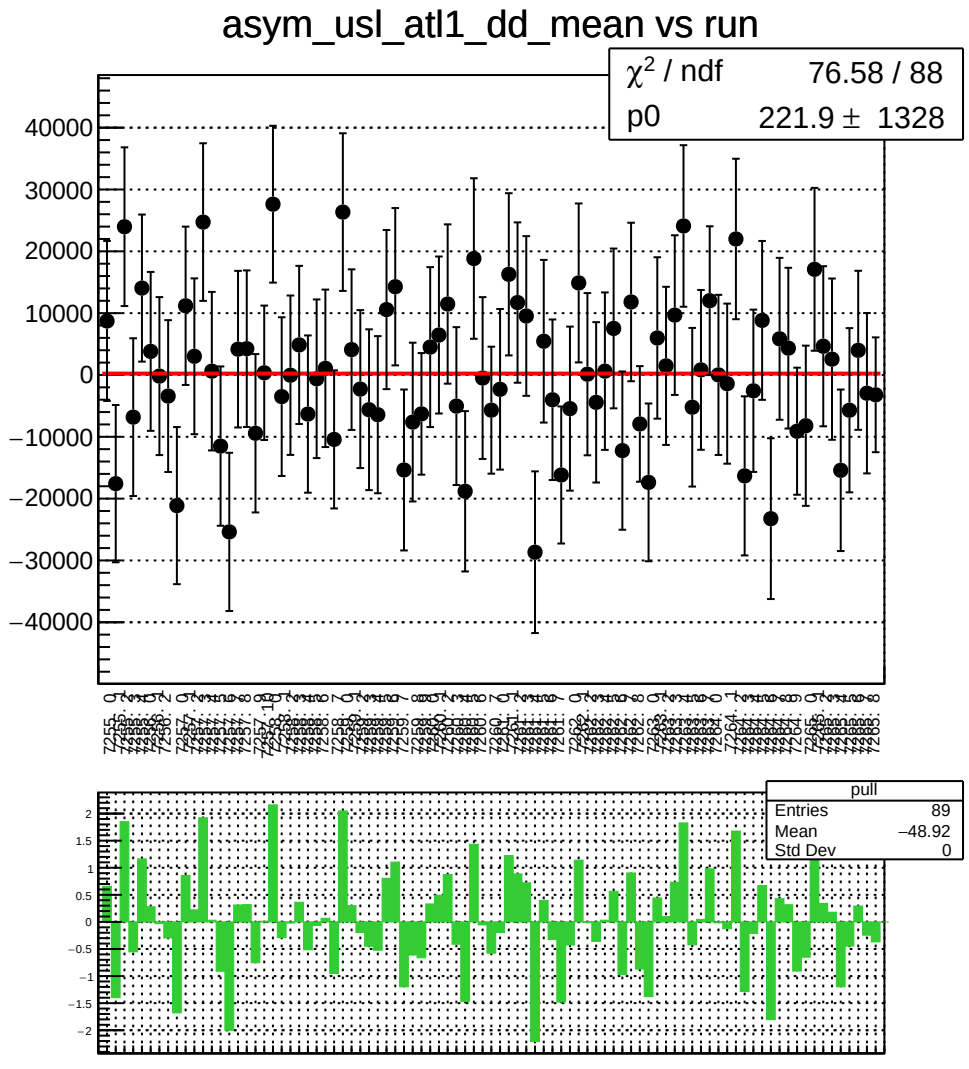

pull1D
Entries 89
Mean 0.0136
Std Dev 0.9839

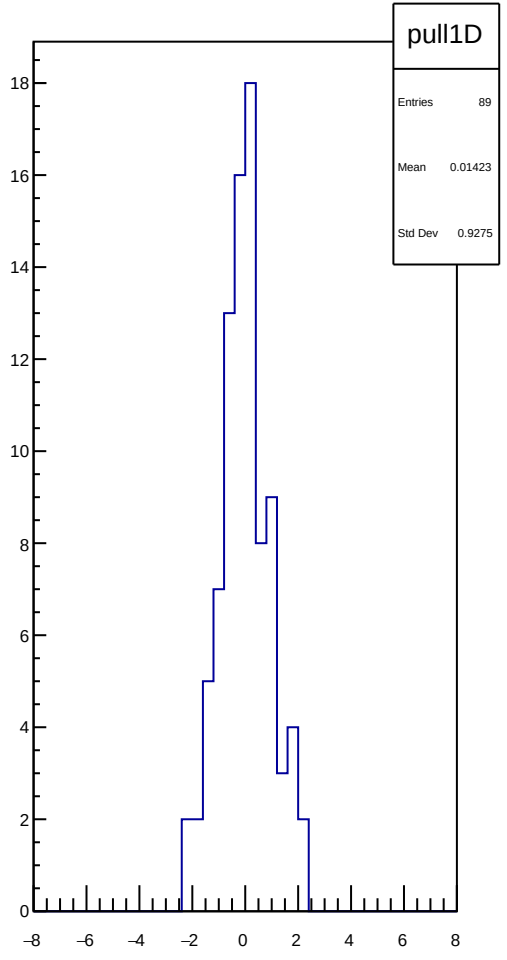

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 86.37 / 88
p0 1102 ± 0.8467
1130
1120
1110
1100
1090
1080

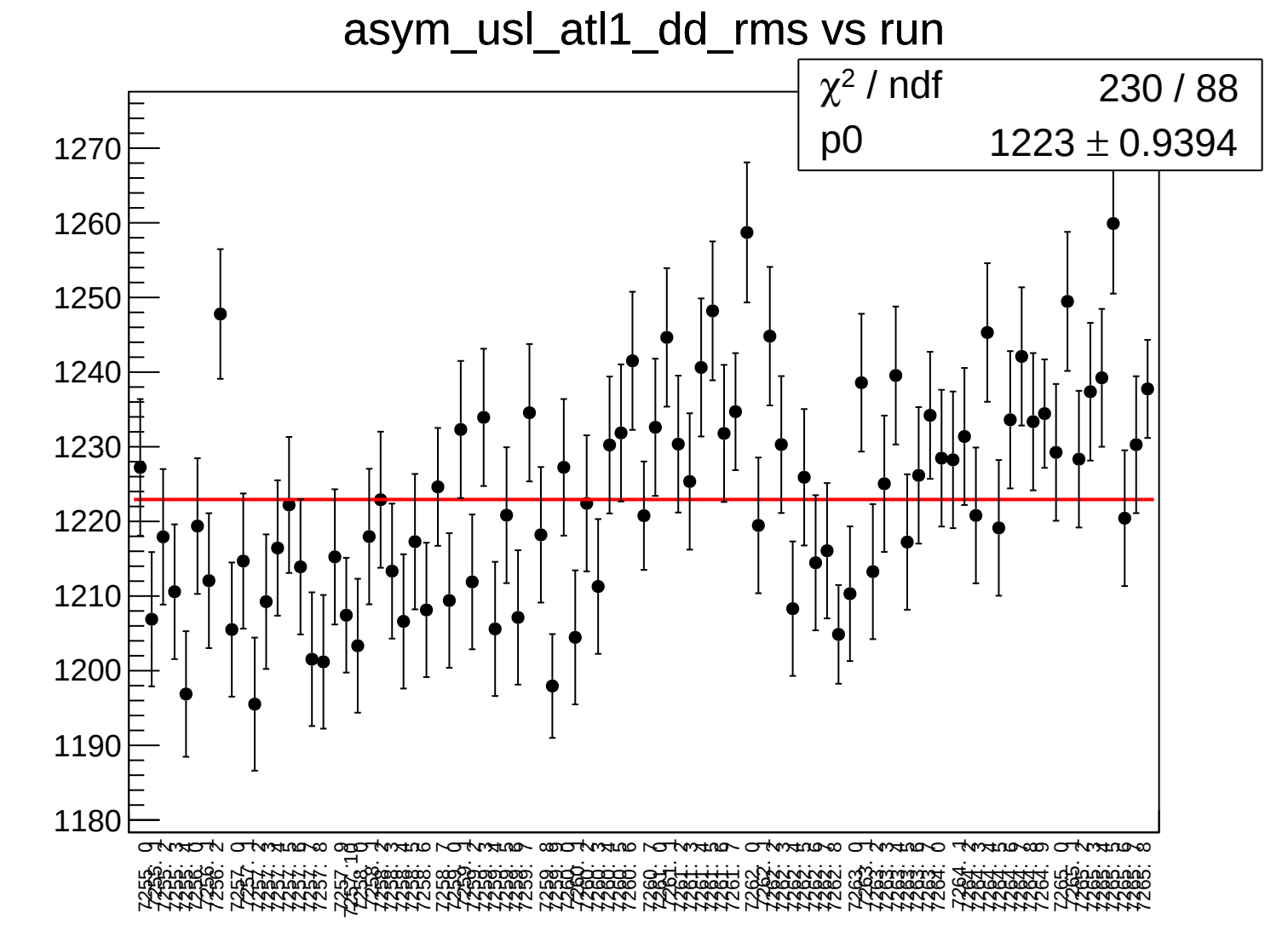

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.57 / 88
p0 −427.4 ± 584.7
pull
Entries 89
Mean 15.1
Std Dev 235.4

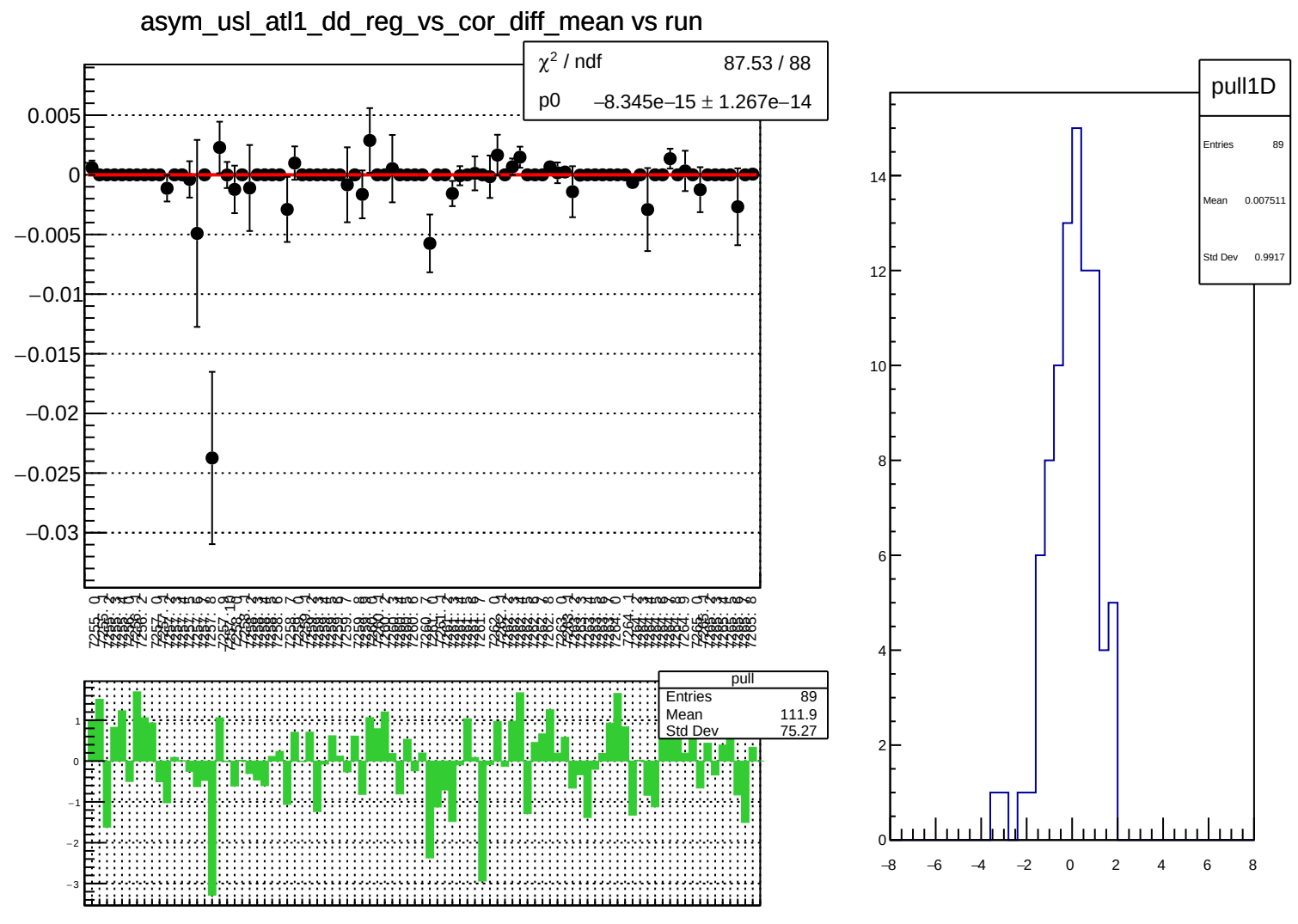

pull1D
Entries 89
Mean −0.00153
Std Dev 0.8842

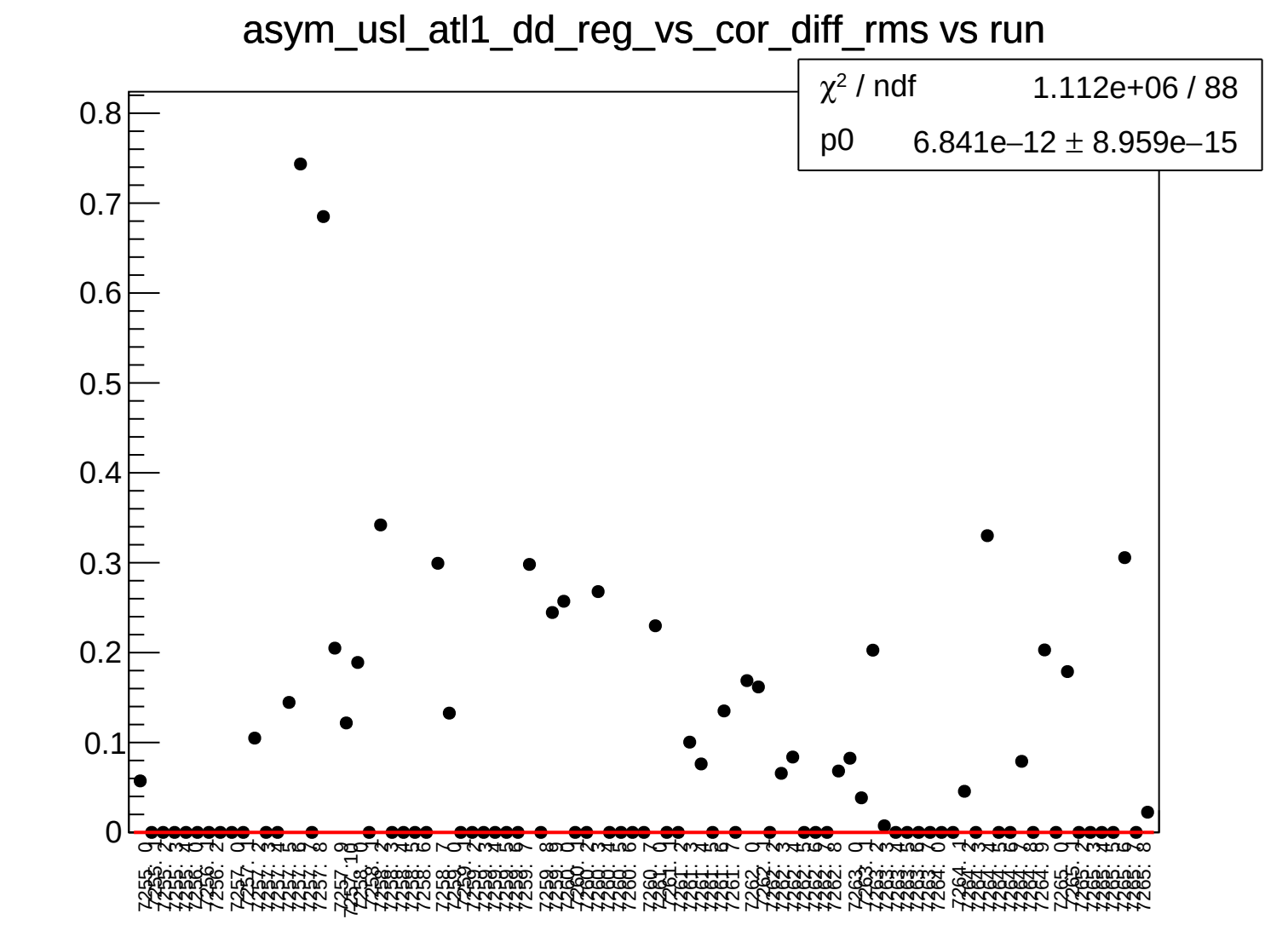

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4362 / 88
p0 537.6 ± 0.4135
620
600
580
560
540
520
500
480

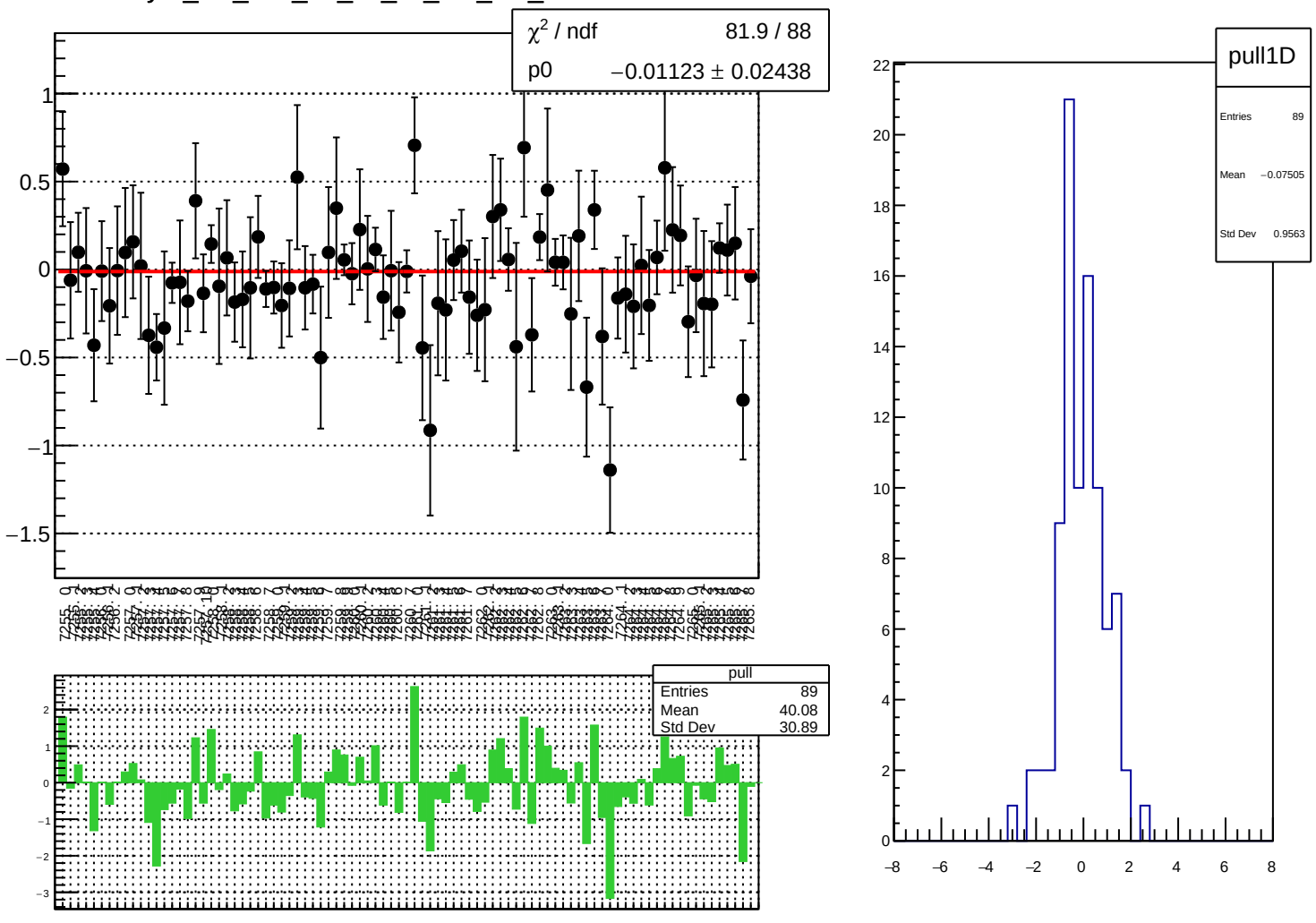

asym_usl_atl1_dd_mean vs run
χ² / ndf 76.58 / 88
p0 221.9 ± 1328
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −48.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

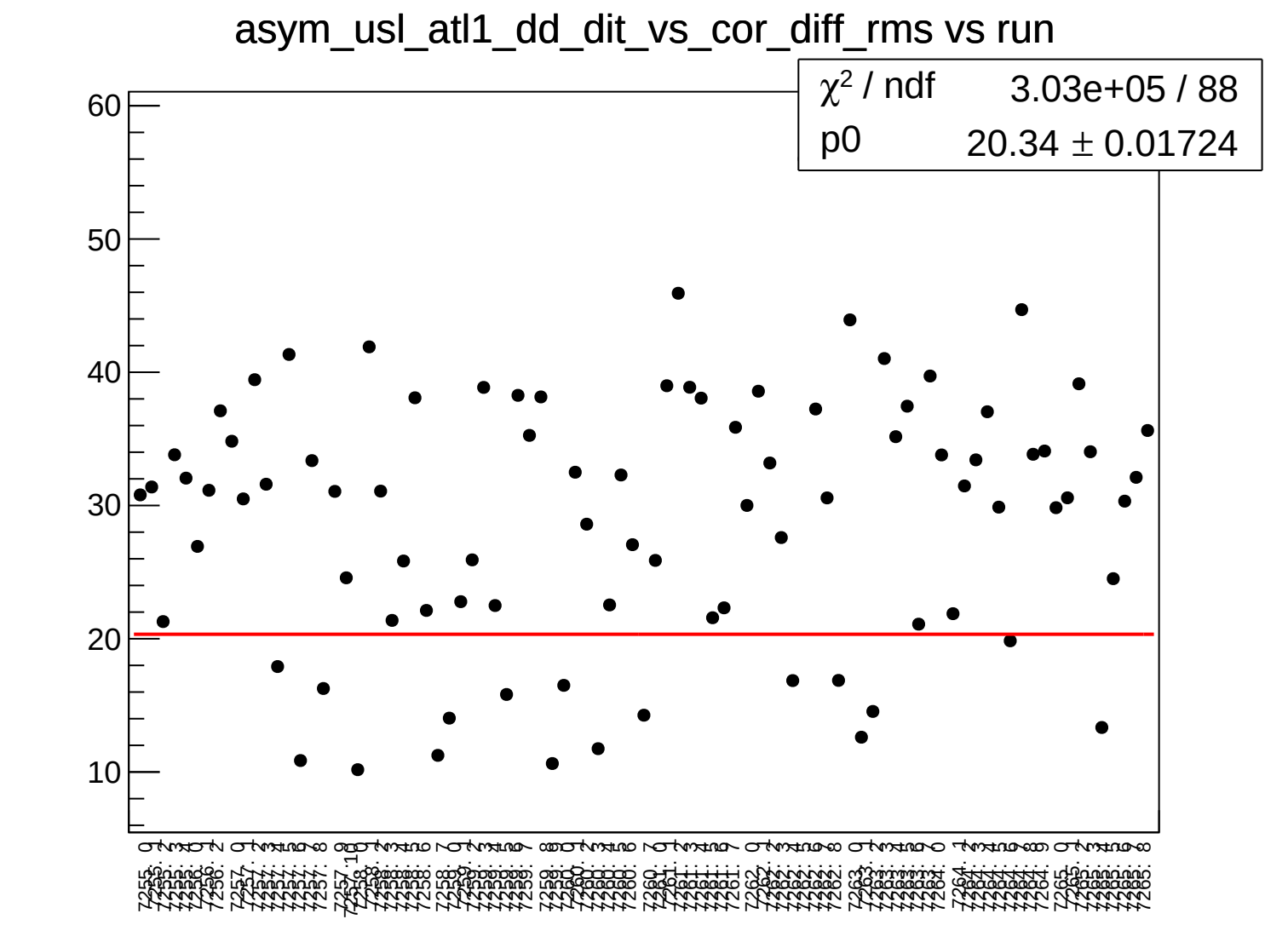

pull1D
Entries 89
Mean 0.01423
Std Dev 0.9275
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

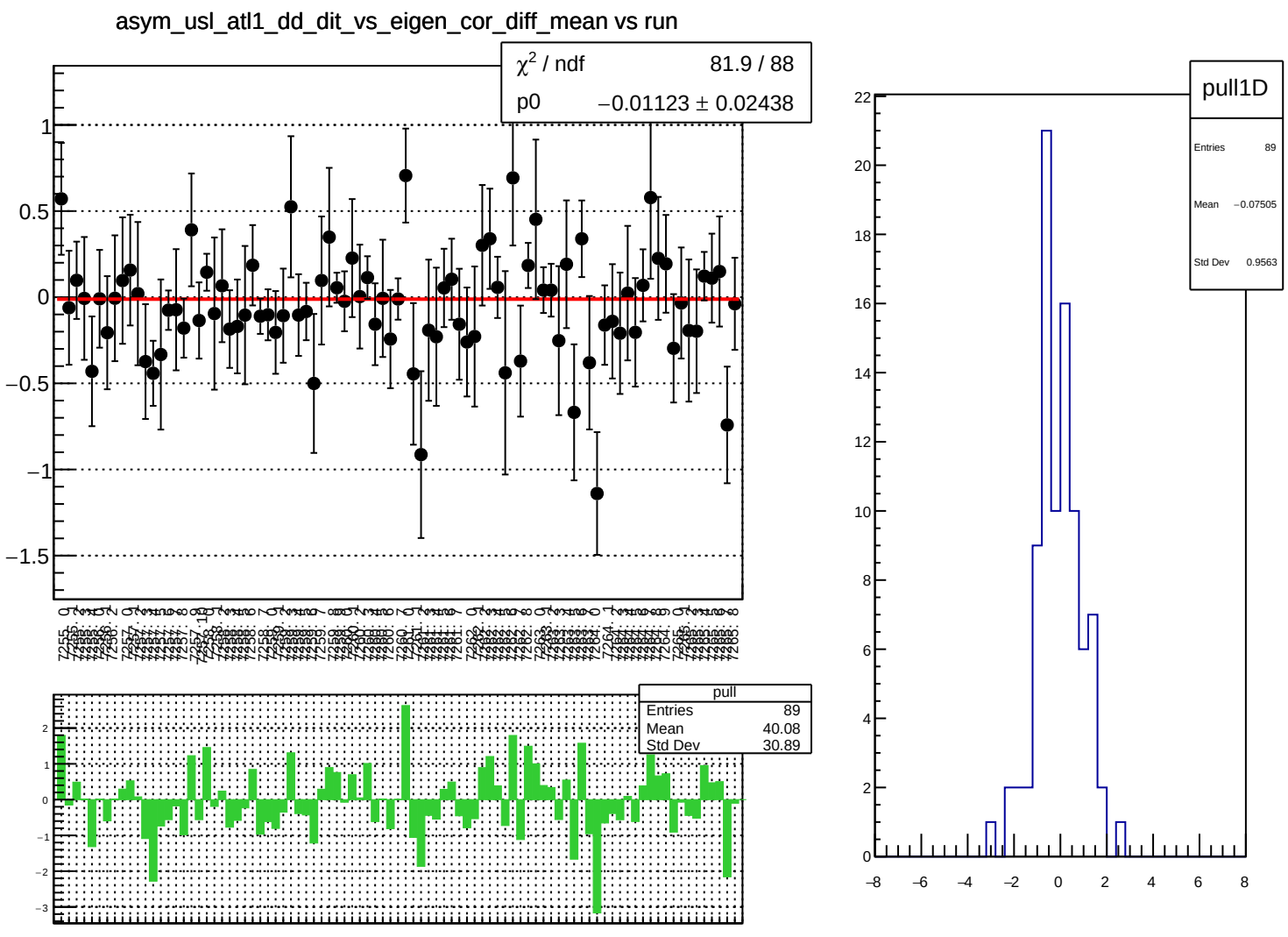

asym_usl_atl1_dd_rms vs run
χ² / ndf 230 / 88
p0 1223 ± 0.9394
1270
1260
1250
1240
1230
1220
1210
1200
1190
1180

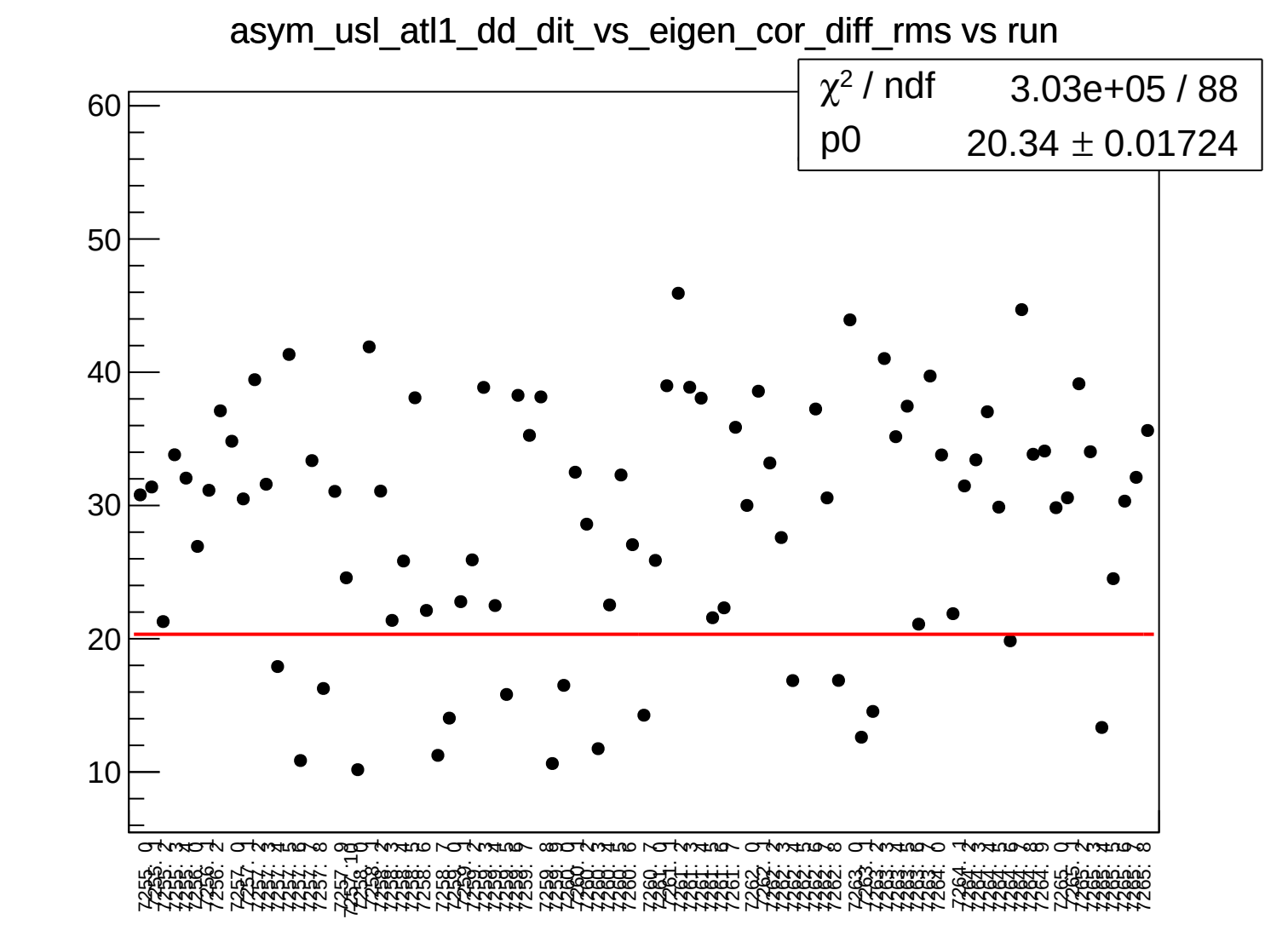

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.53 / 88
p0 −8.345e−15 ± 1.267e−14
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
−0.03
pull
Entries 89
Mean 111.9
Std Dev 75.27
pull1D
Entries 89
Mean 0.007511
Std Dev 0.9917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

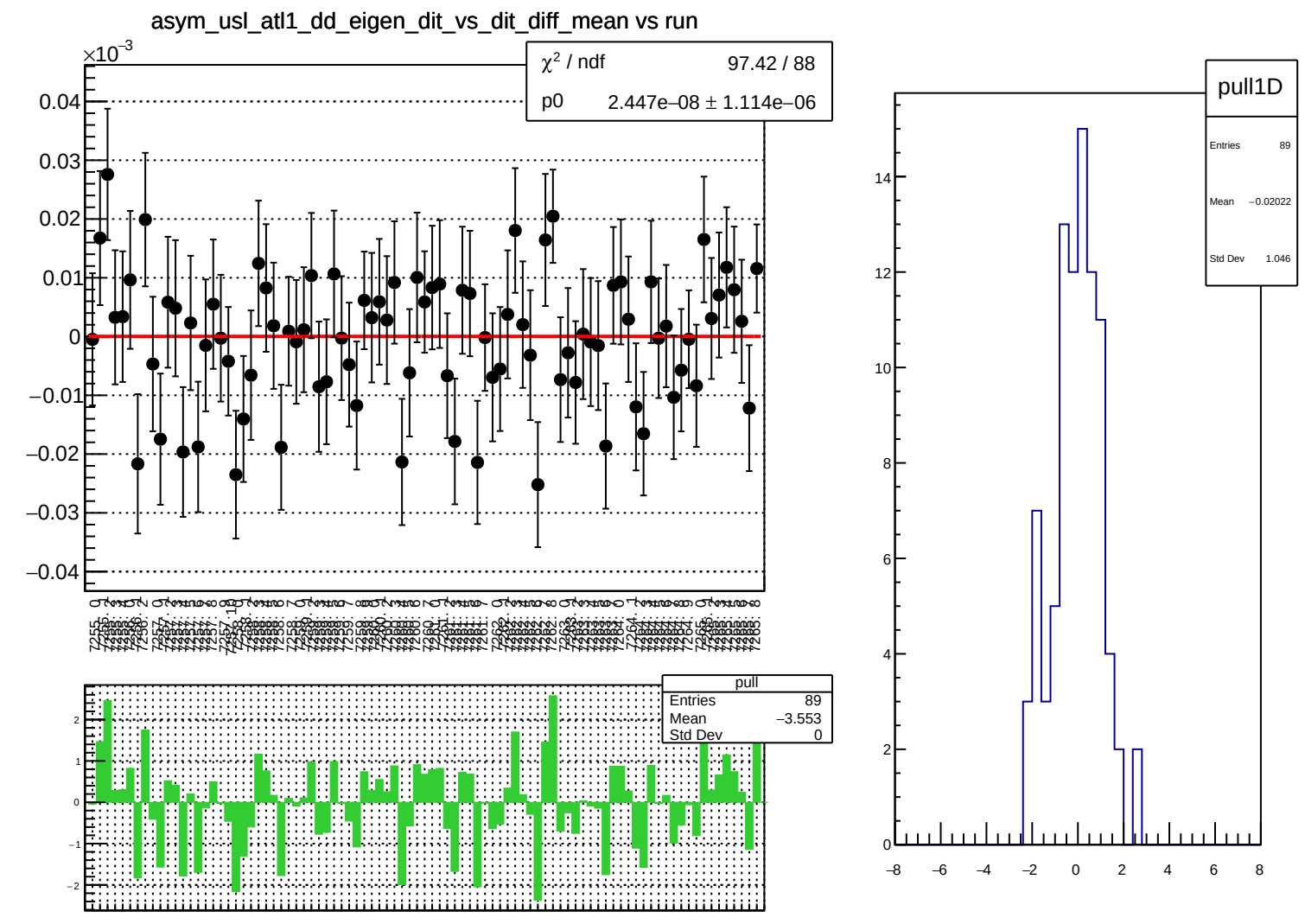

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.112e+06 / 88
p0 6.841e−12 ± 8.959e−15
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

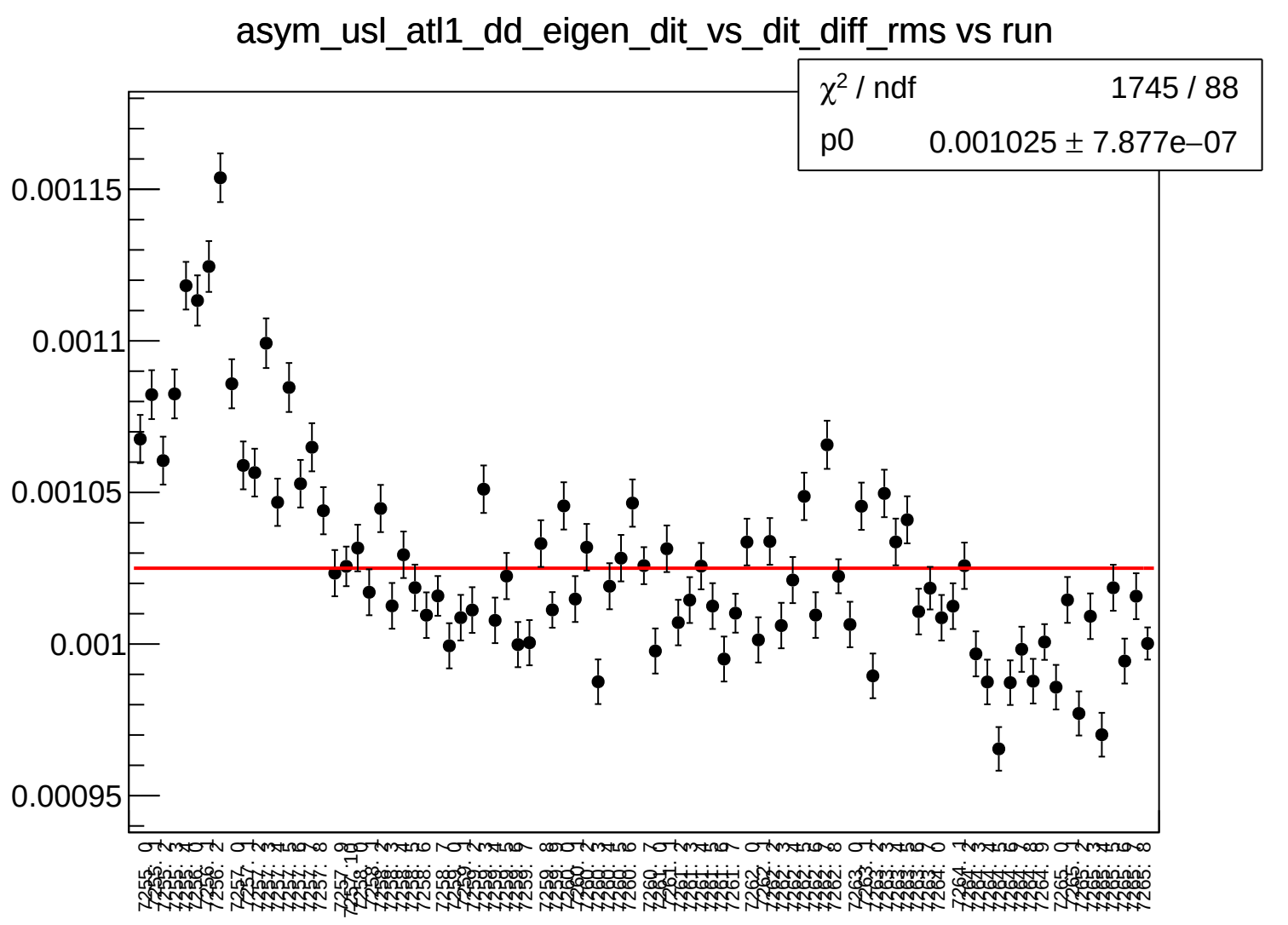

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.9 / 88
p0 −0.01123 ± 0.02438
pull
Entries 89
Mean 40.08
Std Dev 30.89
pull1D
Entries 89
Mean −0.07505
Std Dev 0.9563

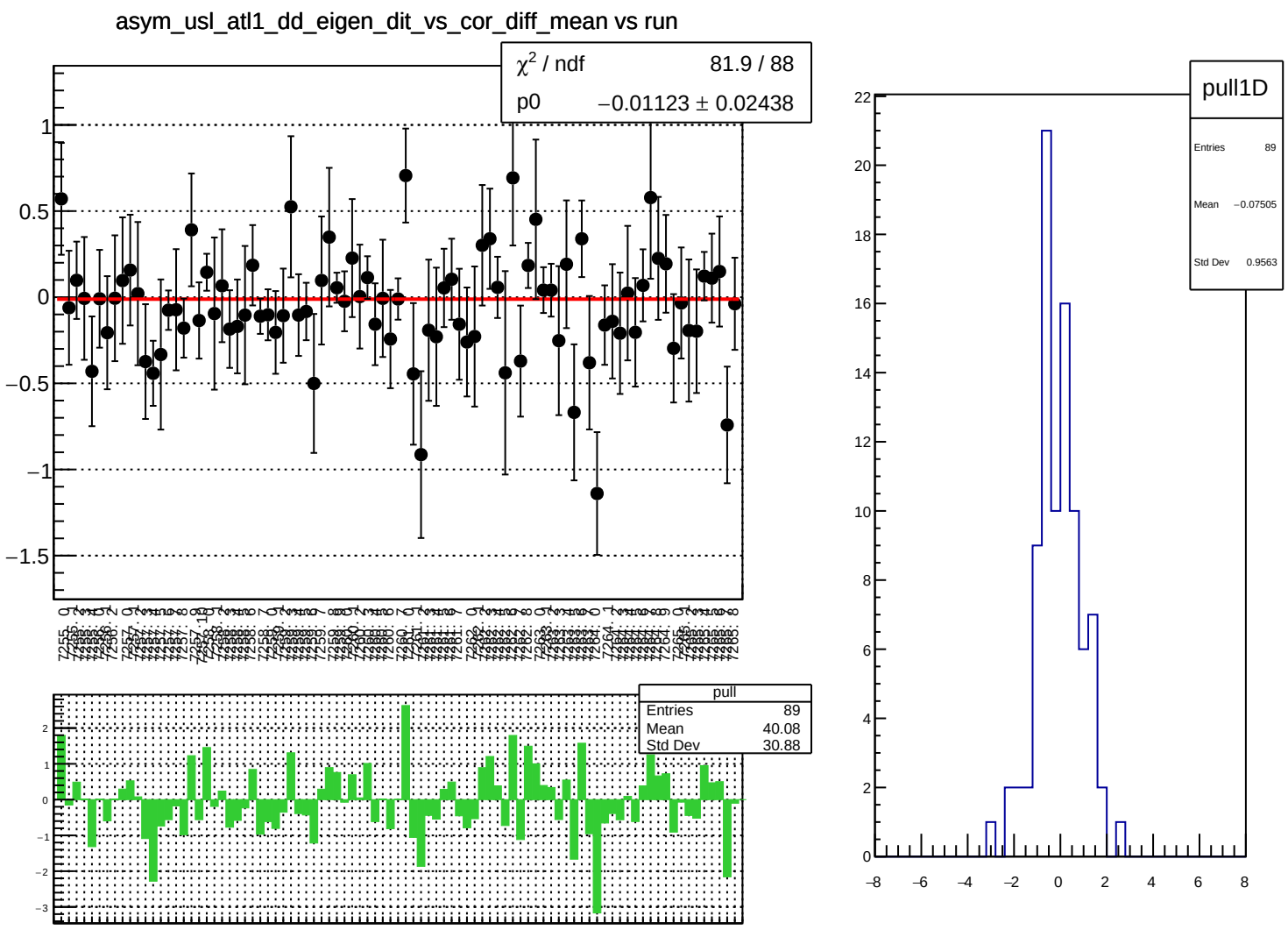

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.03e+05 / 88
p0 20.34 ± 0.01724
60
50
40
30
20
10

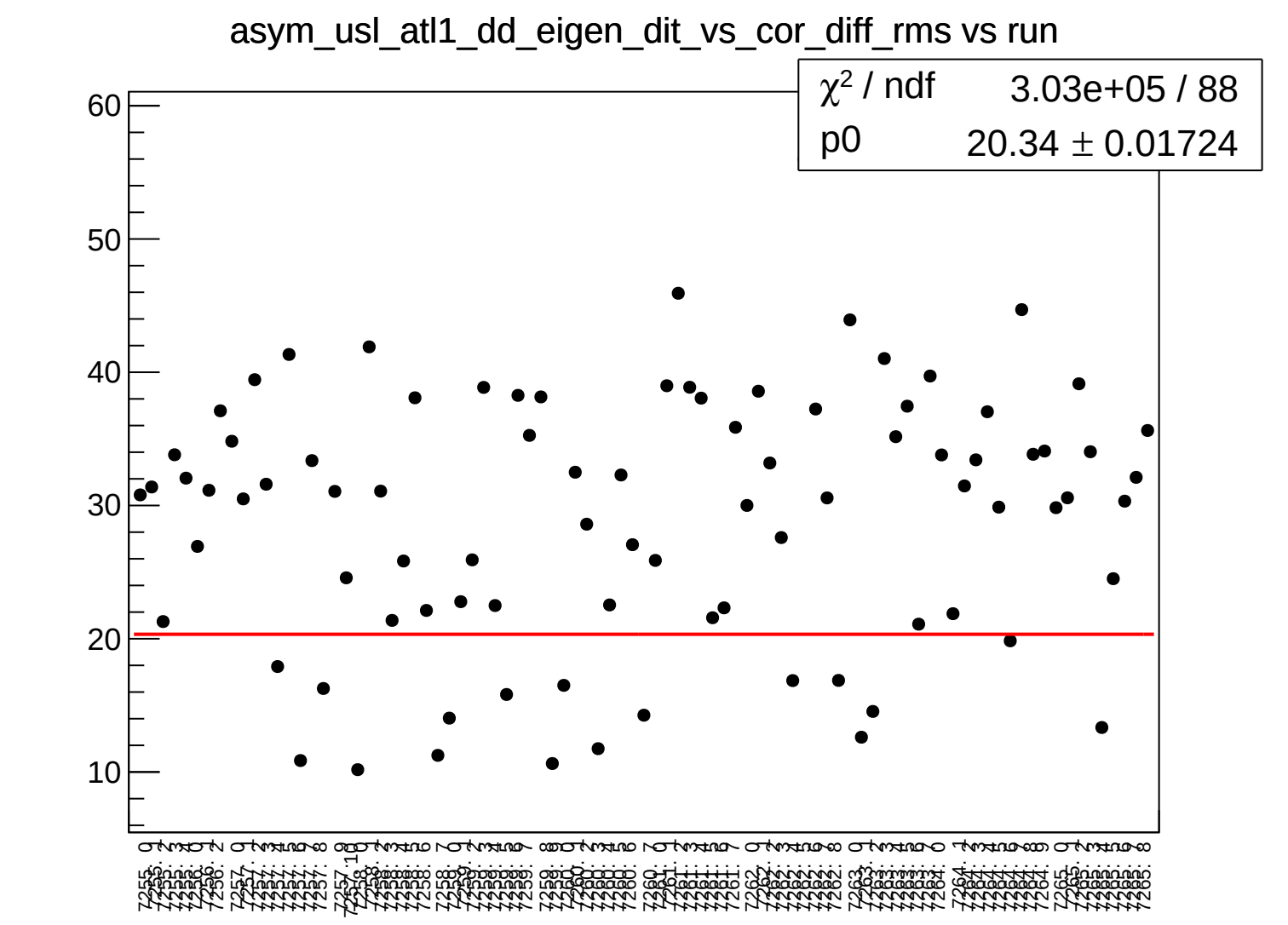

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.9 / 88
p0 −0.01123 ± 0.02438
pull
Entries 89
Mean 40.08
Std Dev 30.89
pull1D
Entries 89
Mean −0.07505
Std Dev 0.9563

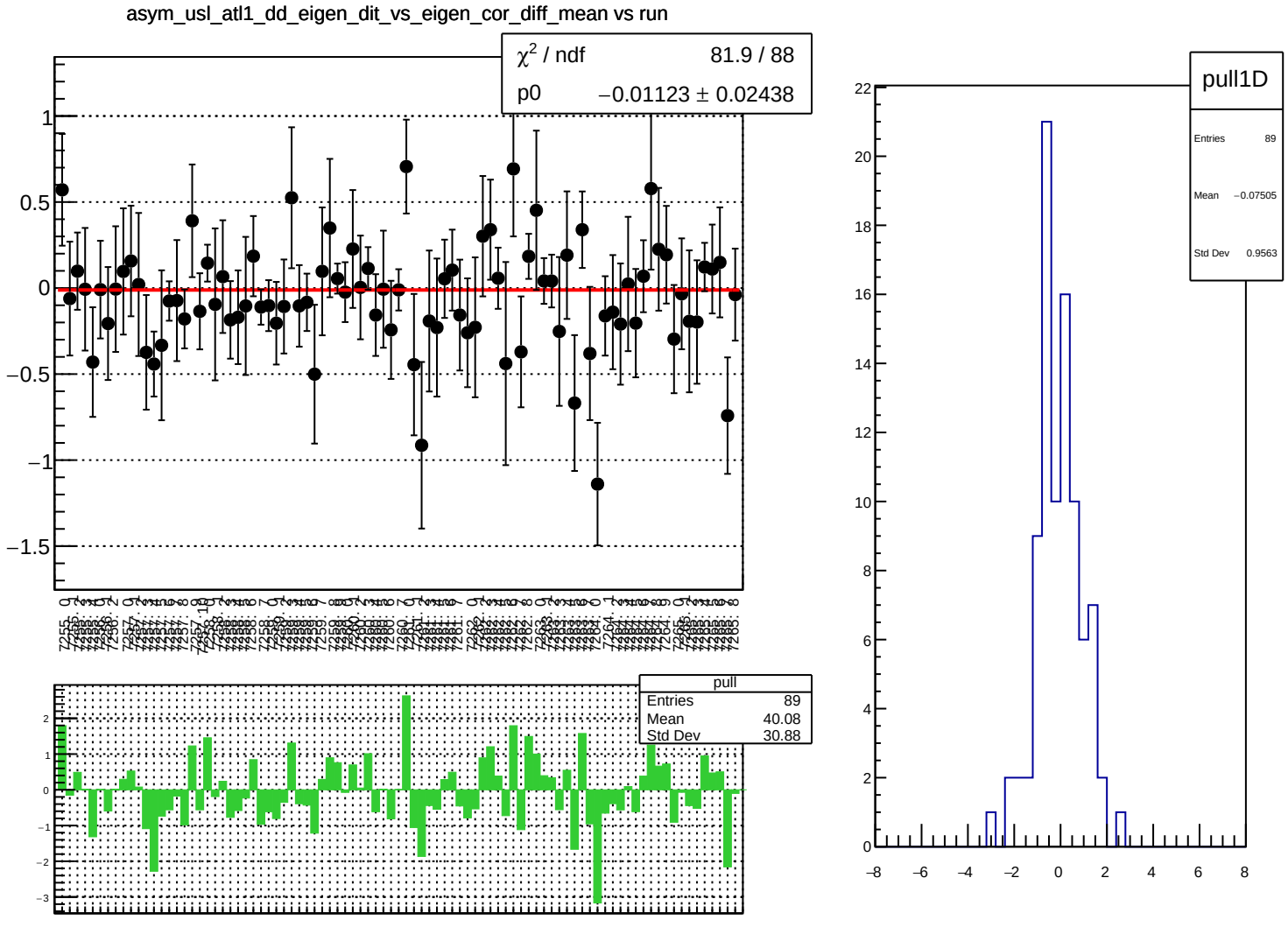

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.03e+05 / 88
p0 20.34 ± 0.01724
60
50
40
30
20
10

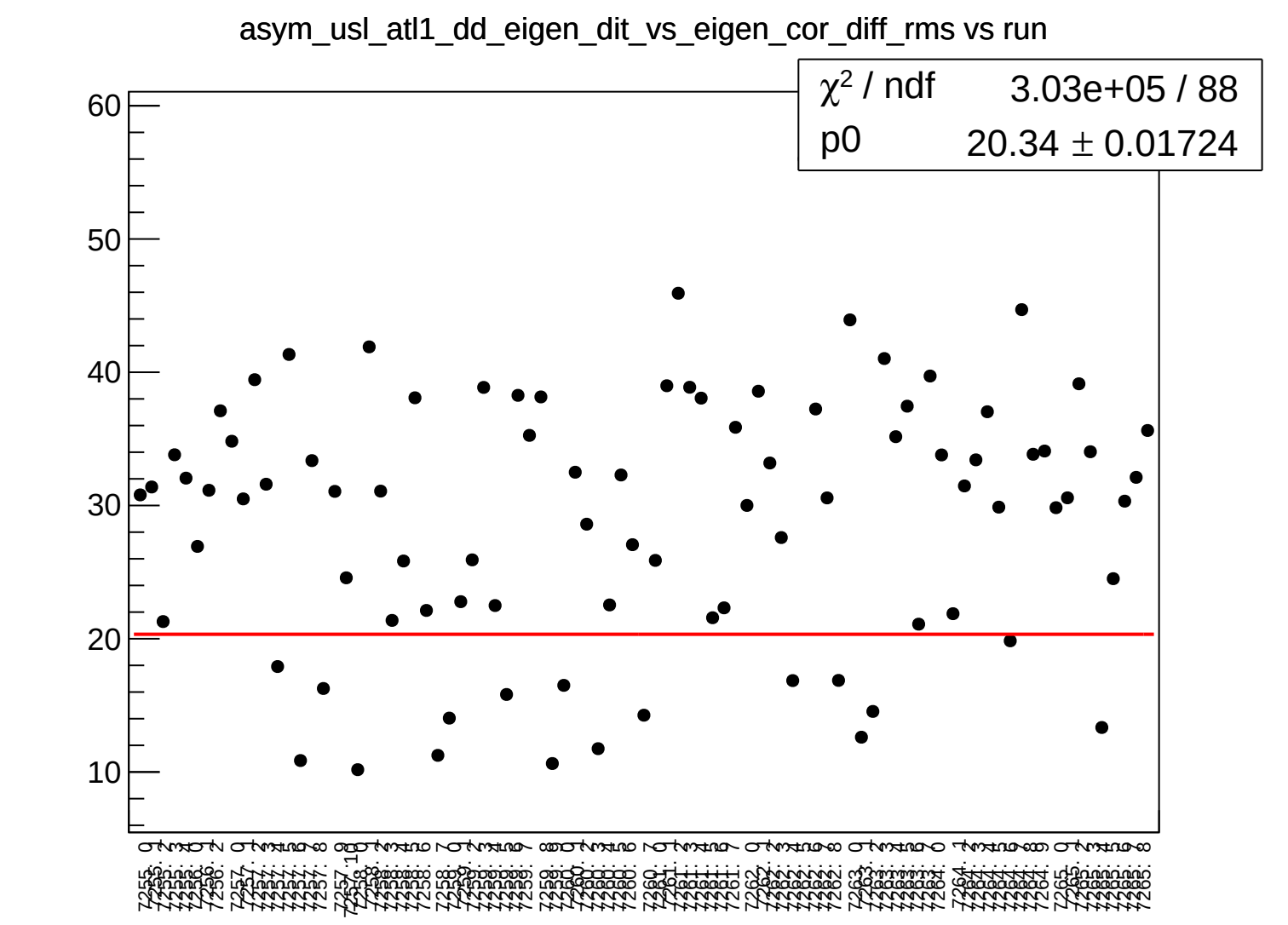

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.42 / 88
p0 2.447e−08 ± 1.114e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 89
Mean −3.553
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02022
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

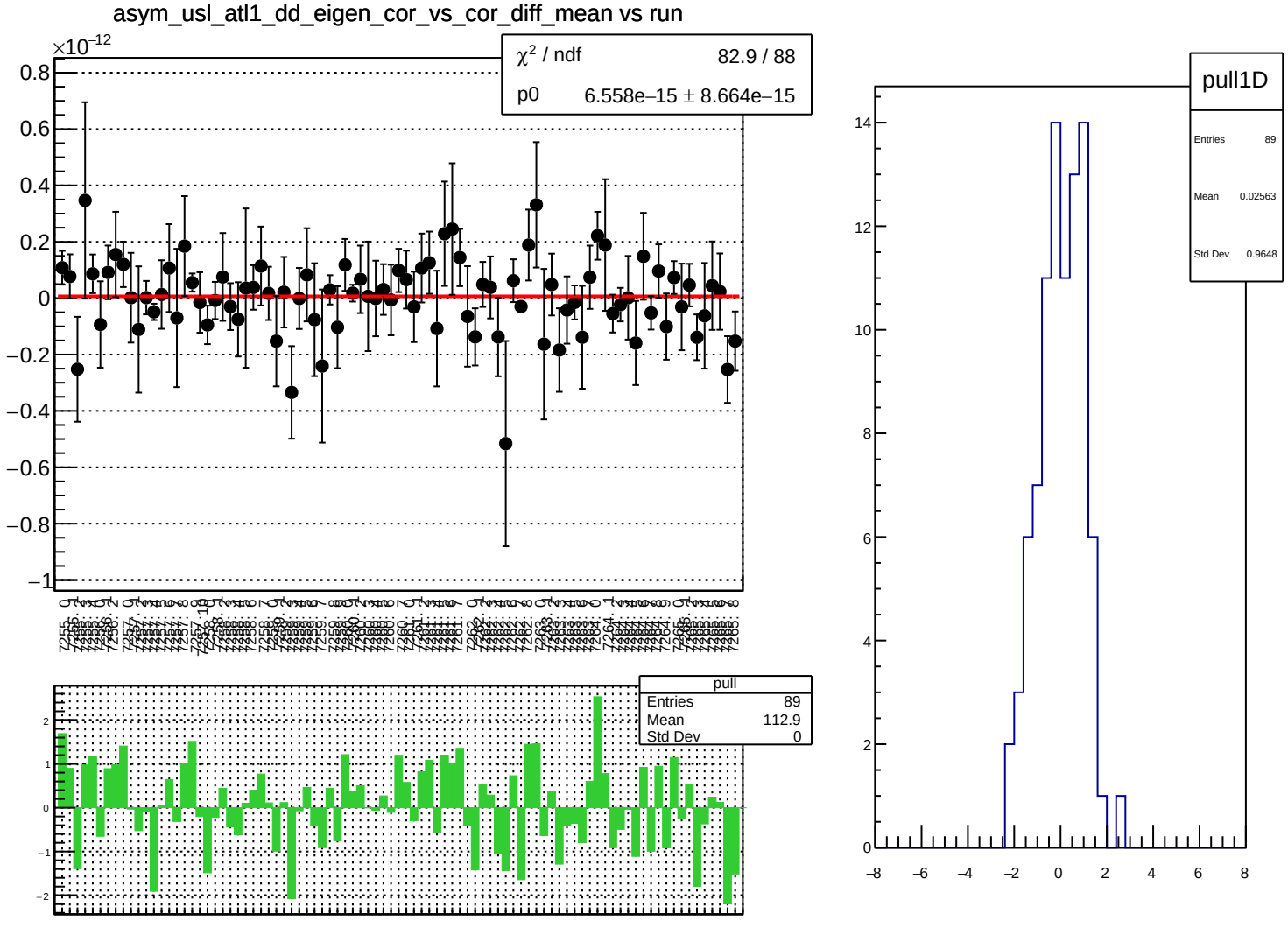

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1745 / 88
p0 0.001025 ± 7.877e−07
0.00115
0.0011
0.00105
0.001
0.00095

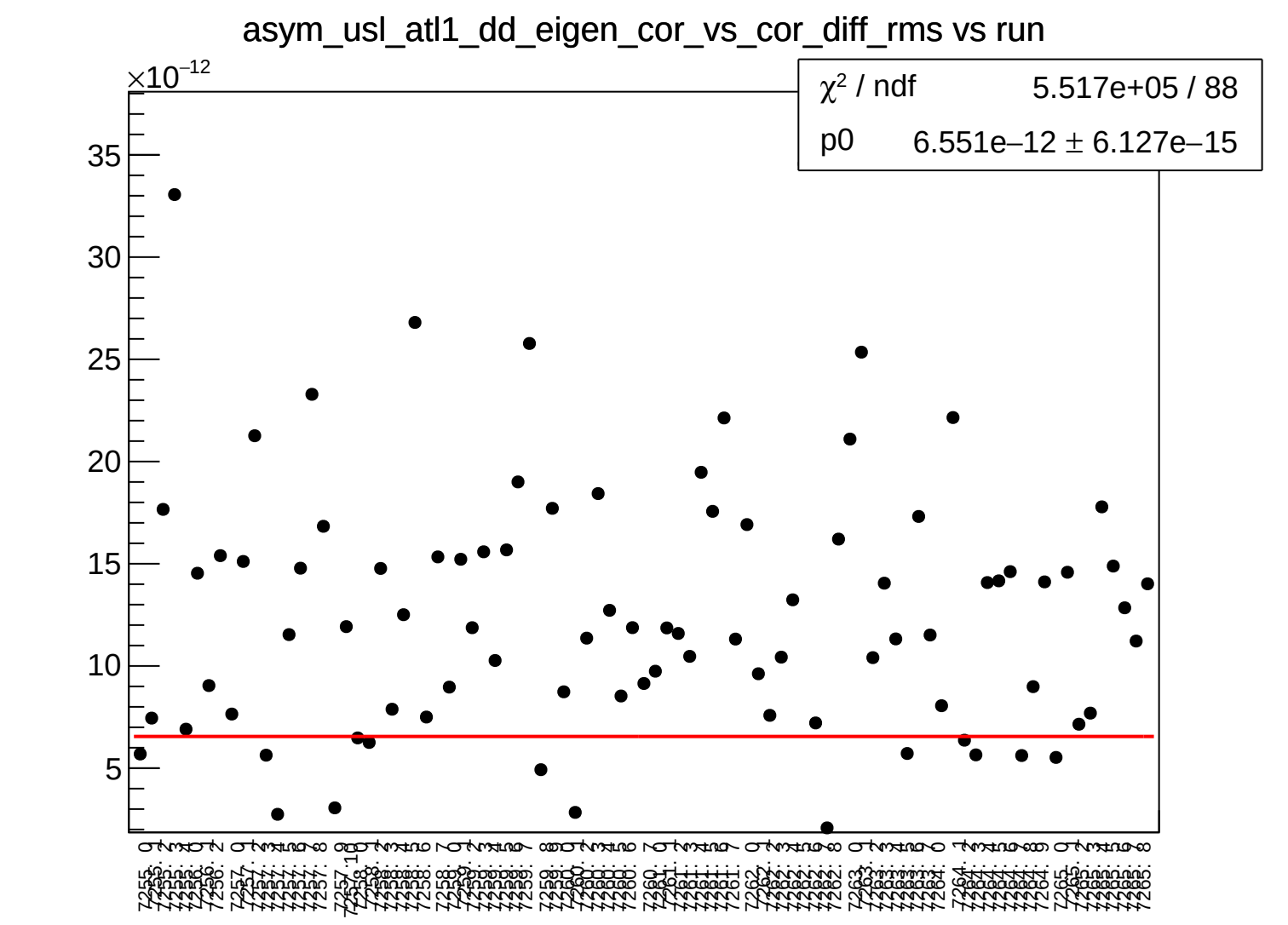

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.9 / 88
p0 −0.01123 ± 0.02438
pull
Entries 89
Mean 40.08
Std Dev 30.88
pull1D
Entries 89
Mean −0.07505
Std Dev 0.9563

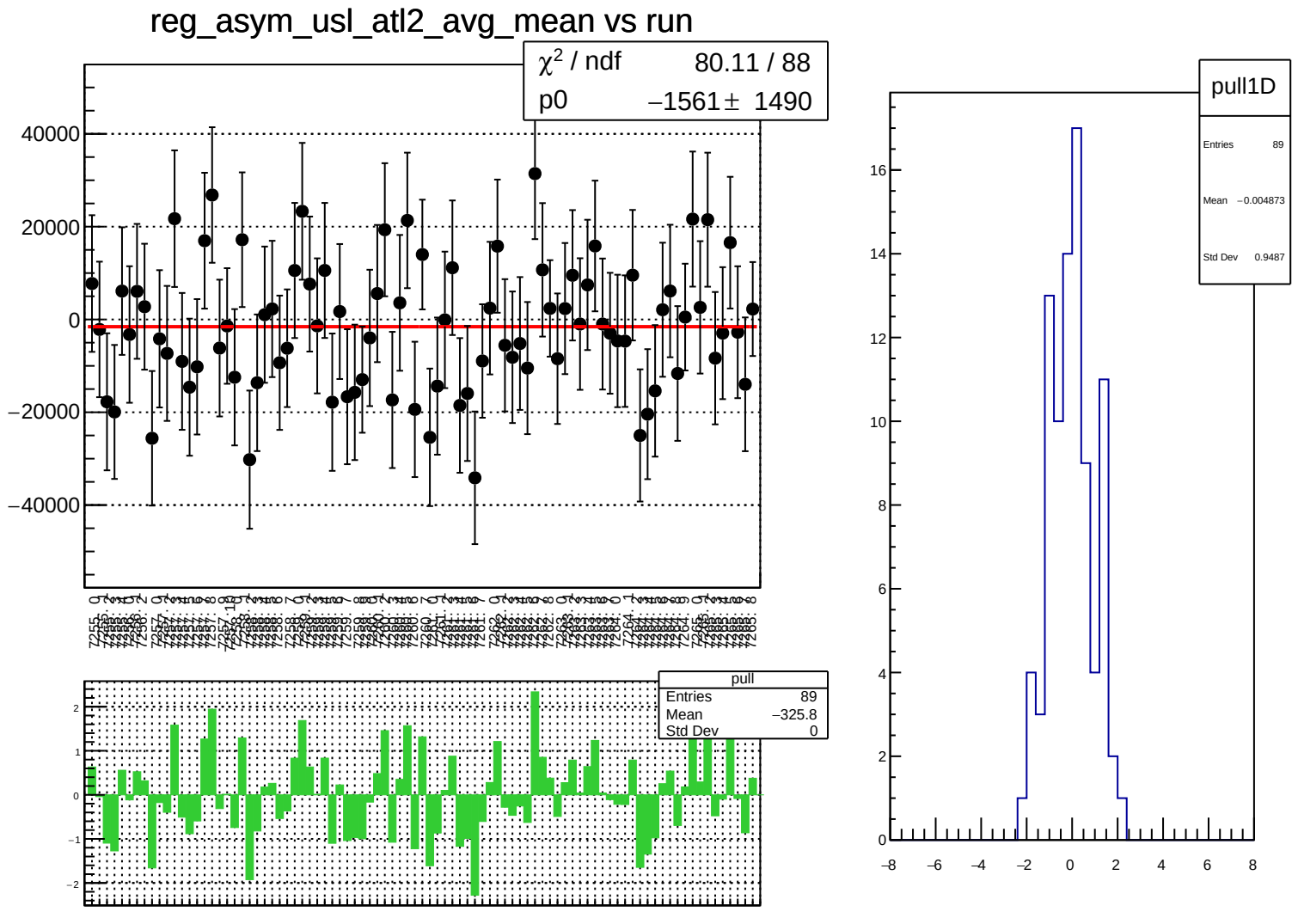

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.03e+05 / 88
p0 20.34 ± 0.01724
60
50
40
30
20
10

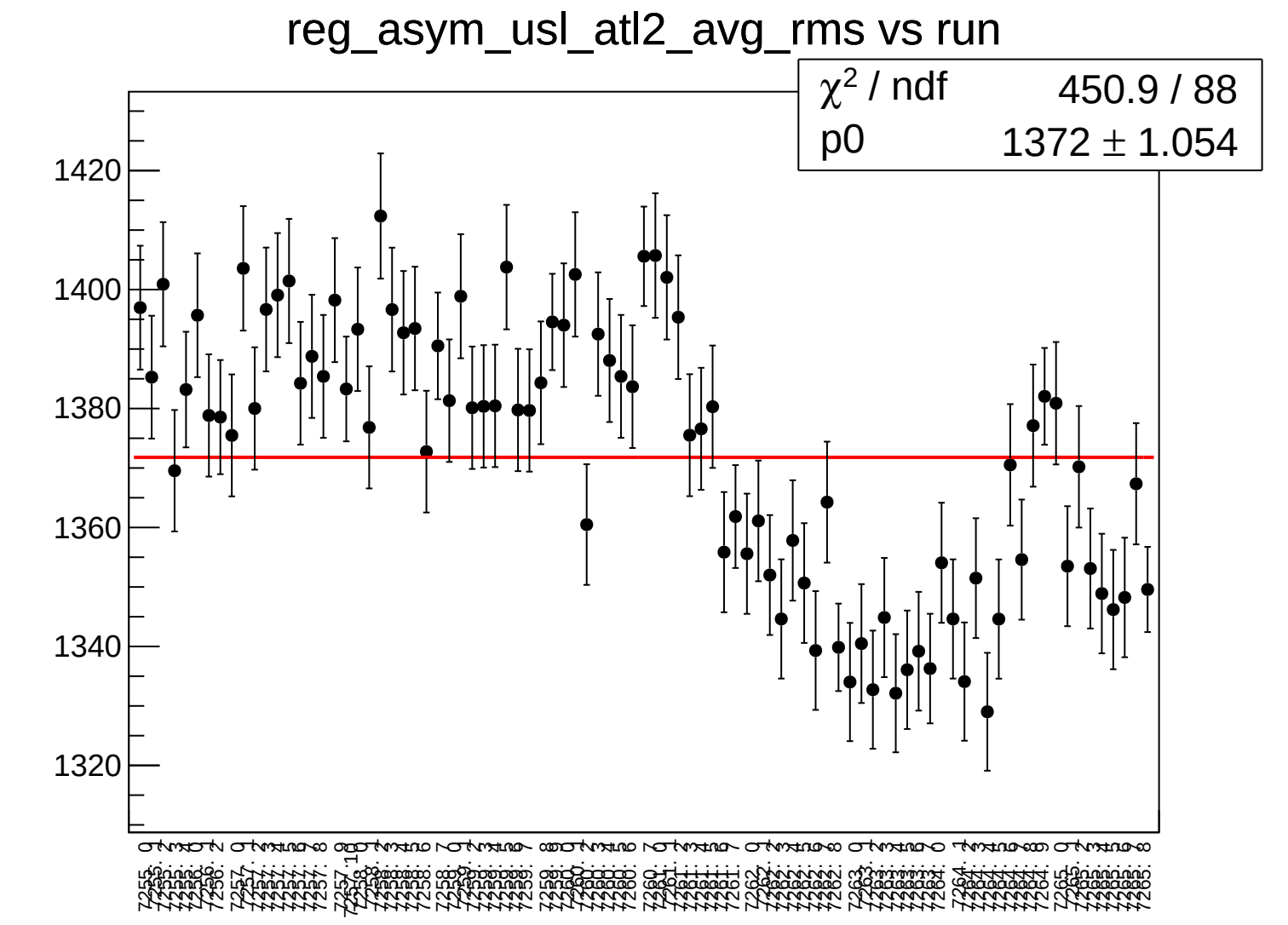

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.9 / 88
p0 −0.01123 ± 0.02438
pull
Entries 89
Mean 40.08
Std Dev 30.88
pull1D
Entries 89
Mean −0.07505
Std Dev 0.9563

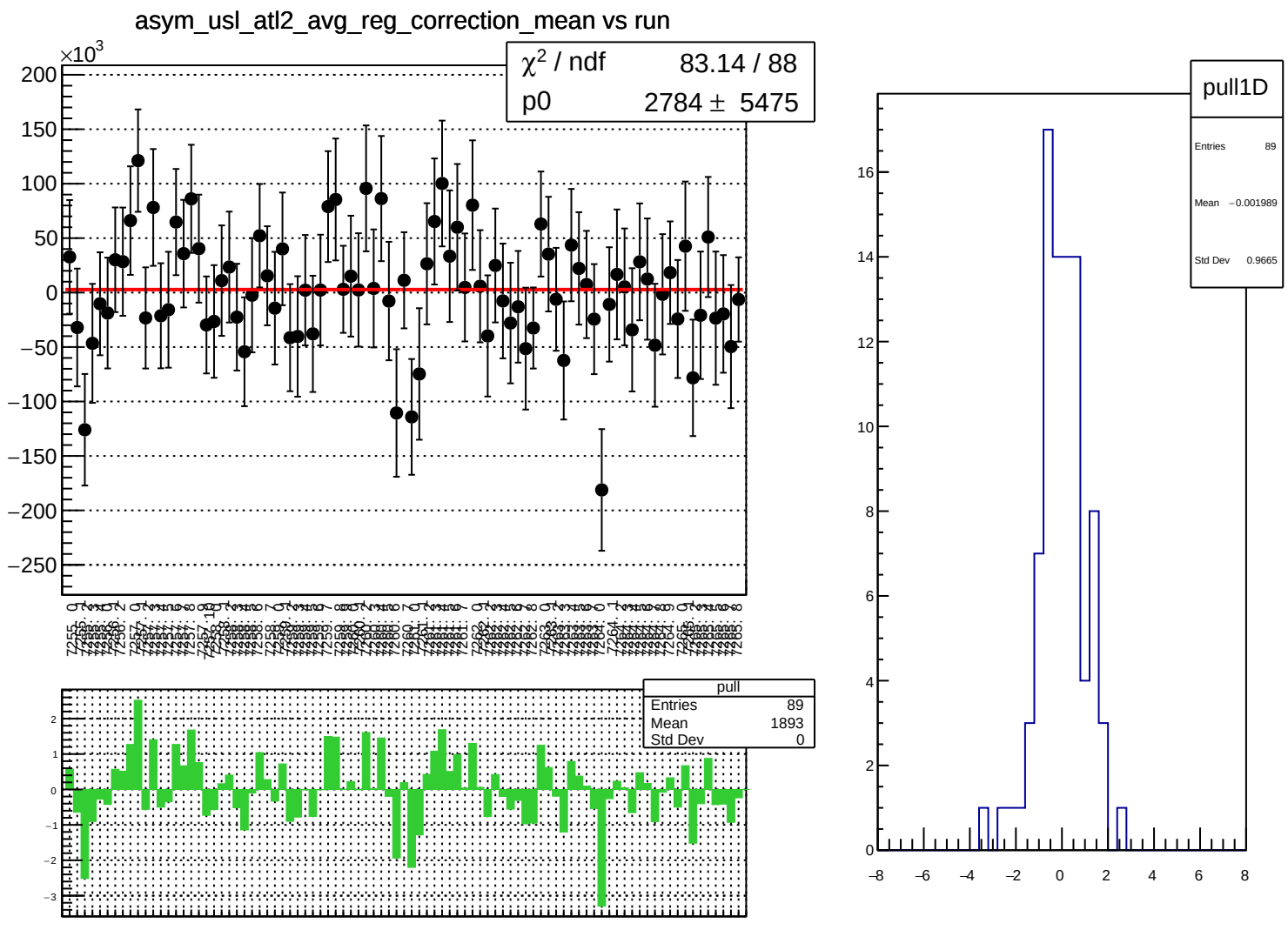

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.03e+05 / 88
p0 20.34 ± 0.01724
60
50
40
30
20
10

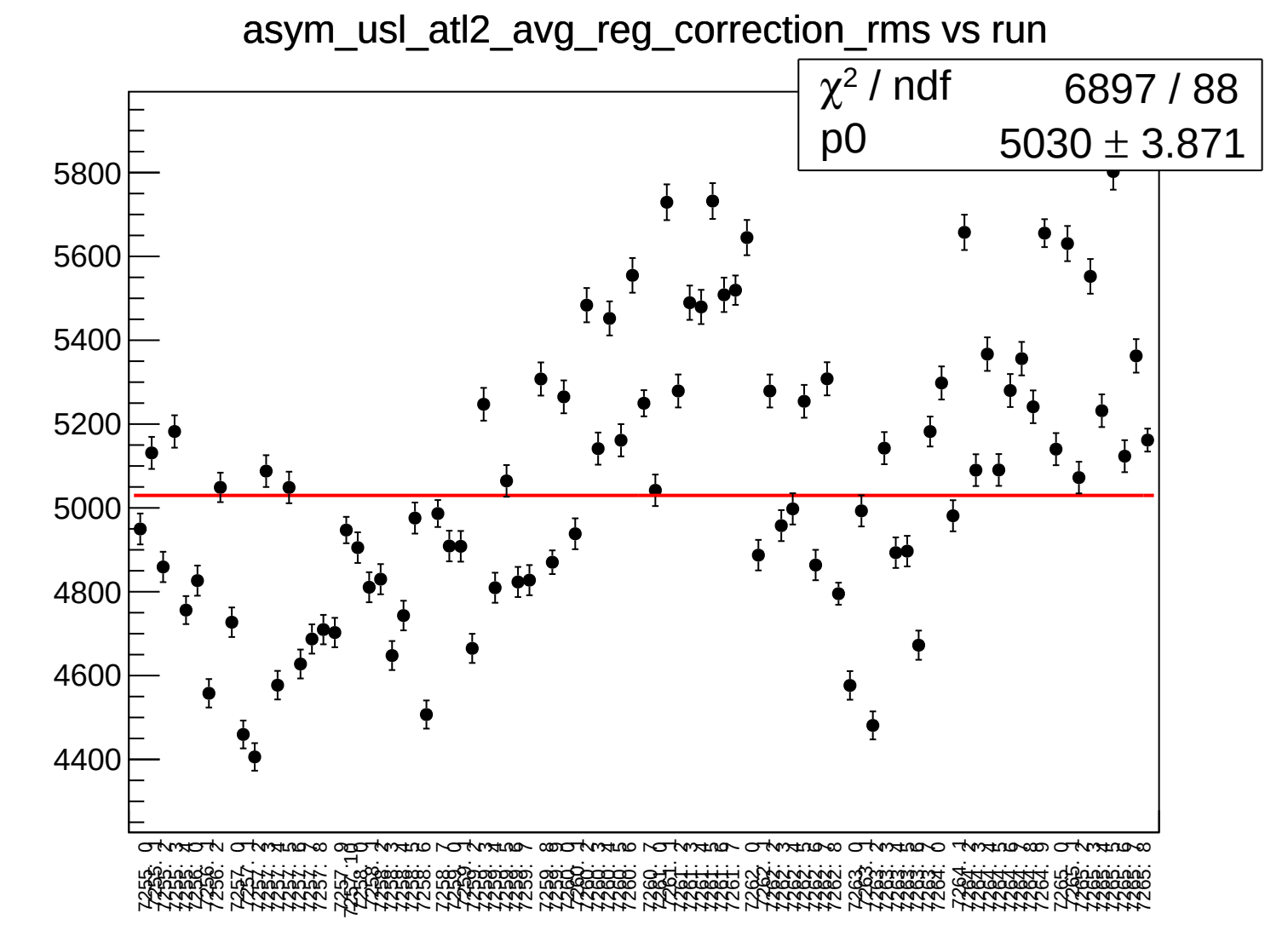

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 82.9 / 88
p0 6.558e−15 ± 8.664e−15
pull
Entries 89
Mean −112.9
Std Dev 0
pull1D
Entries 89
Mean 0.02563
Std Dev 0.9648

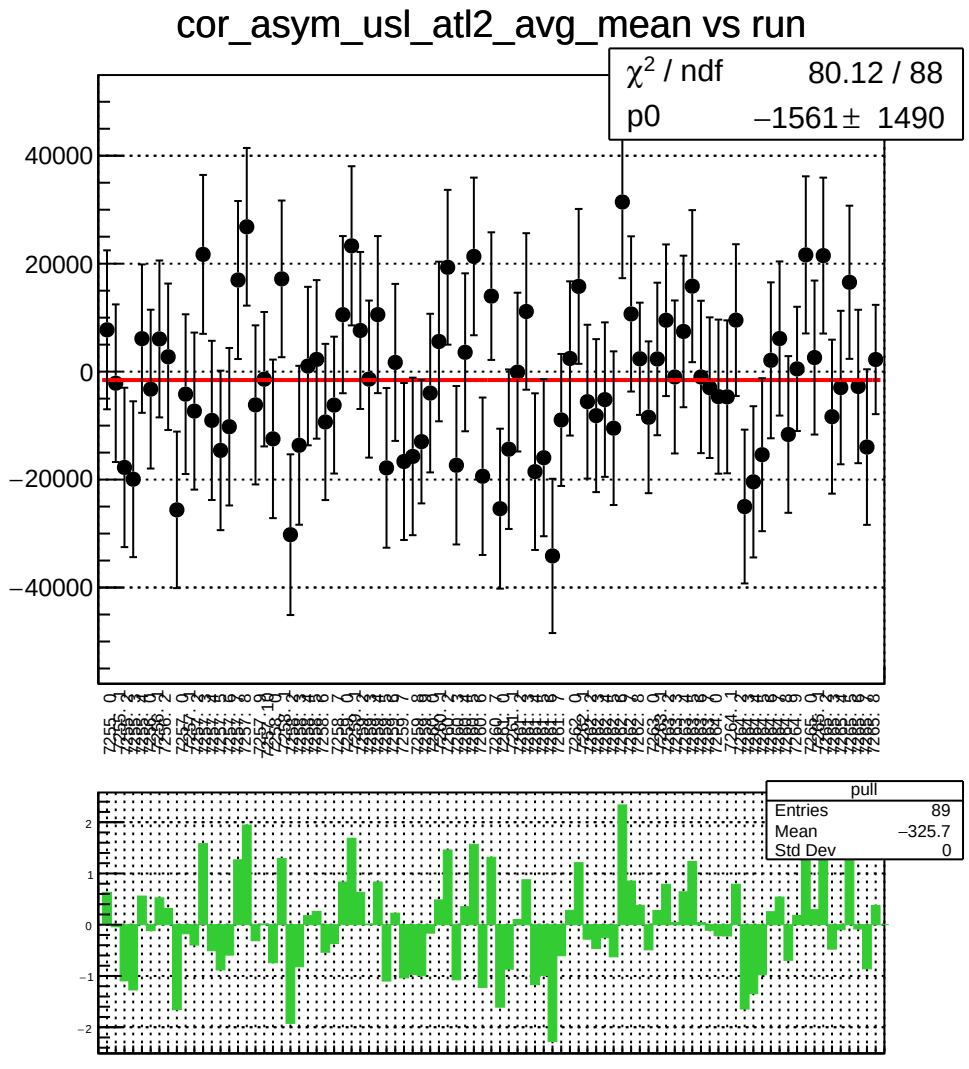

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.517e+05 / 88
p0 6.551e−12 ± 6.127e−15
35
30
25
20
15
10
5

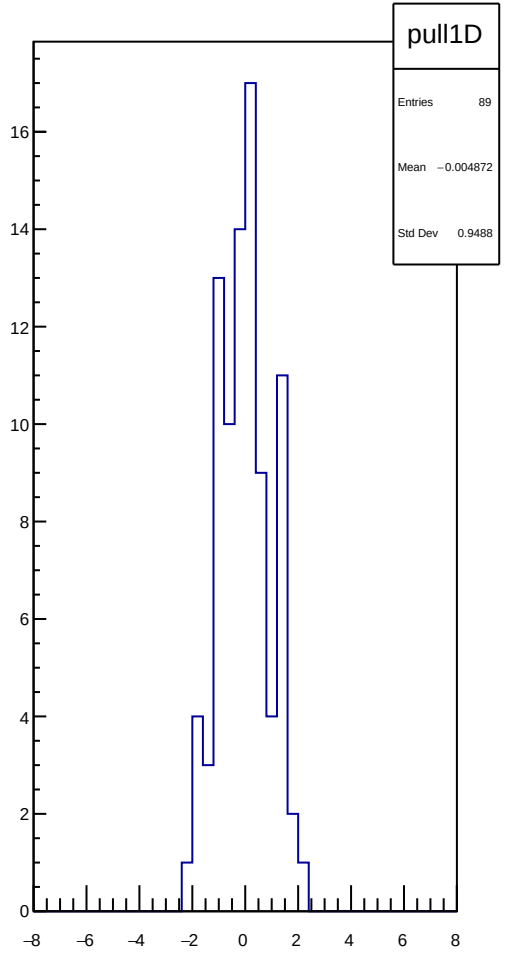

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 80.11 / 88
p0 −1561 ± 1490
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −325.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.004873
Std Dev 0.9487
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

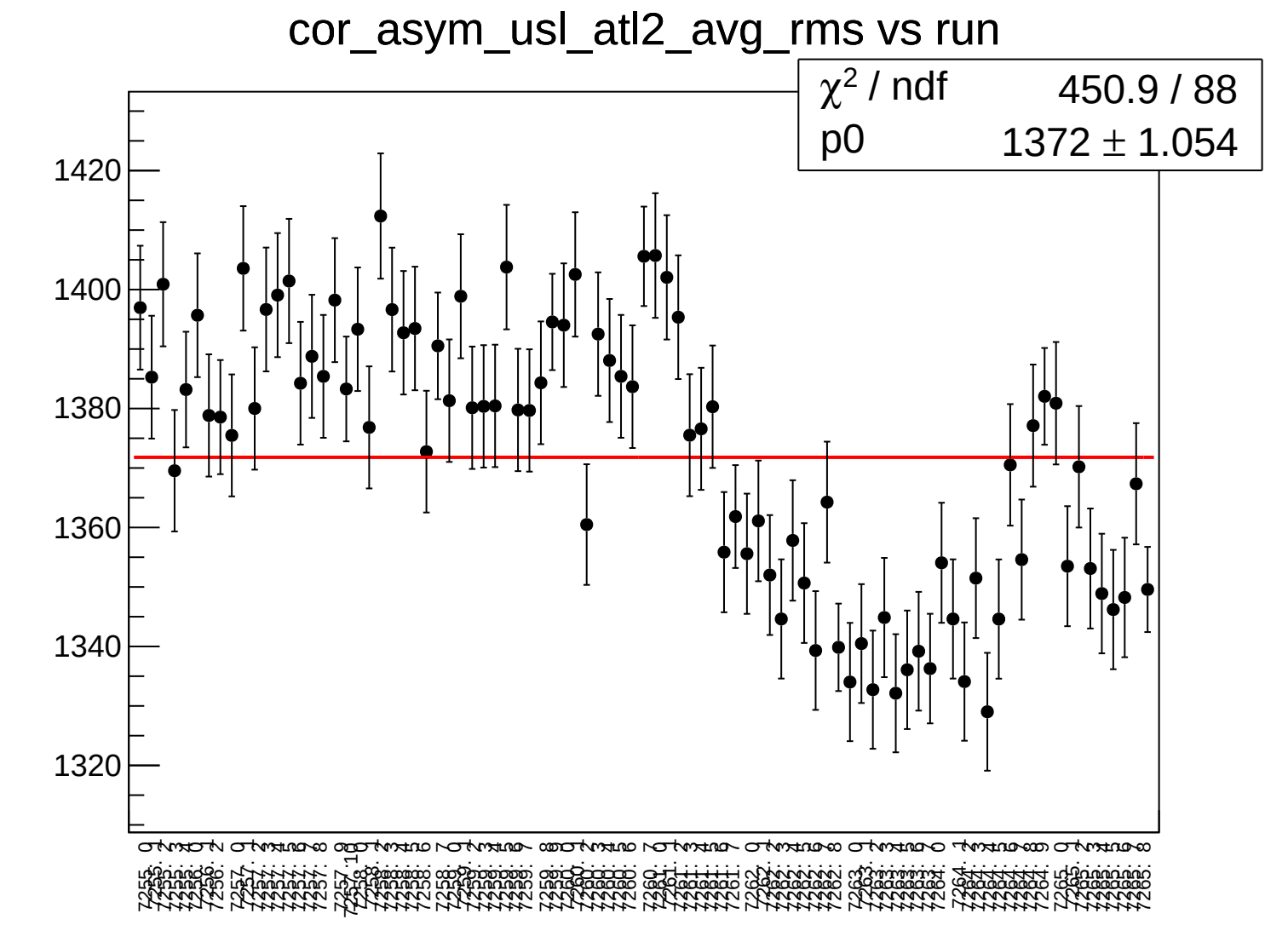

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 450.9 / 88
p0 1372 ± 1.054
1420
1400
1380
1360
1340
1320

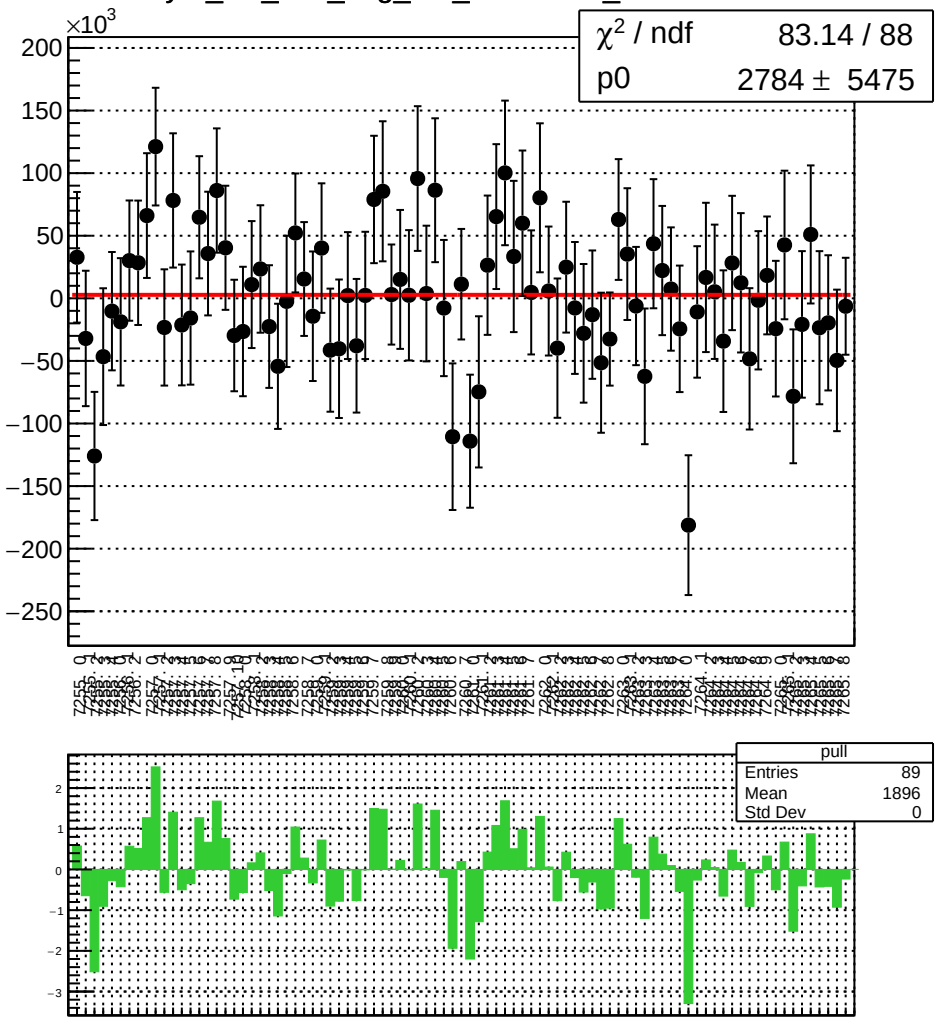

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 83.14 / 88
p0 2784 ± 5475
pull
Entries 89
Mean 1893
Std Dev 0
pull1D
Entries 89
Mean −0.001989
Std Dev 0.9665

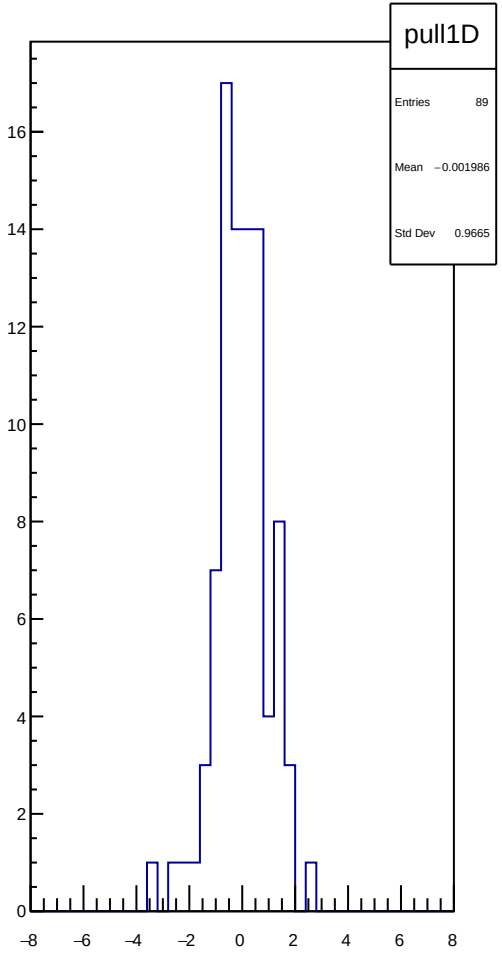

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 6897 / 88
p0 5030 ± 3.871
5800
5600
5400
5200
5000
4800
4600
4400

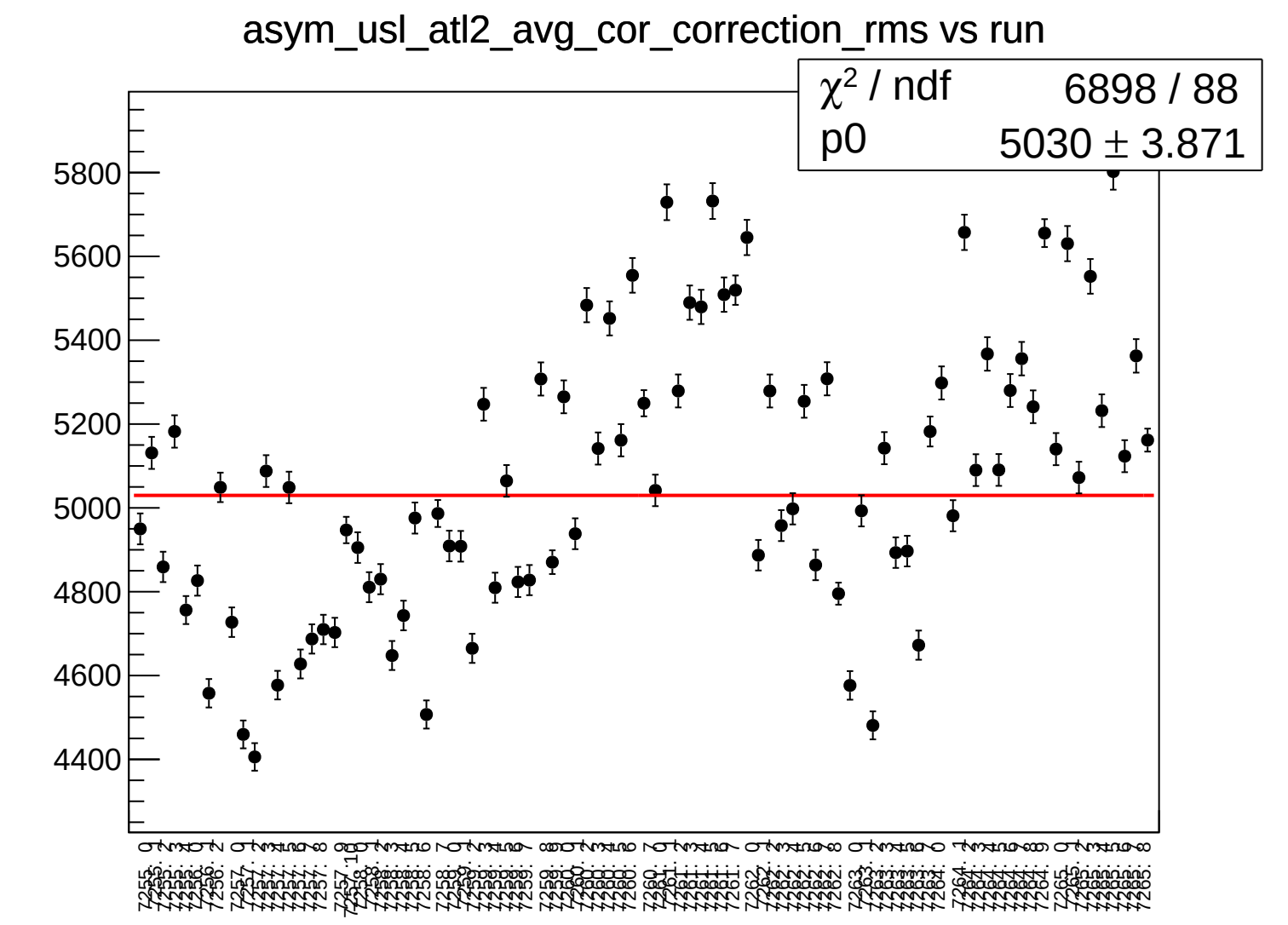

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 80.12 / 88
p0 −1561 ± 1490
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −325.7
Std Dev 0
2
1
0
−1
−2

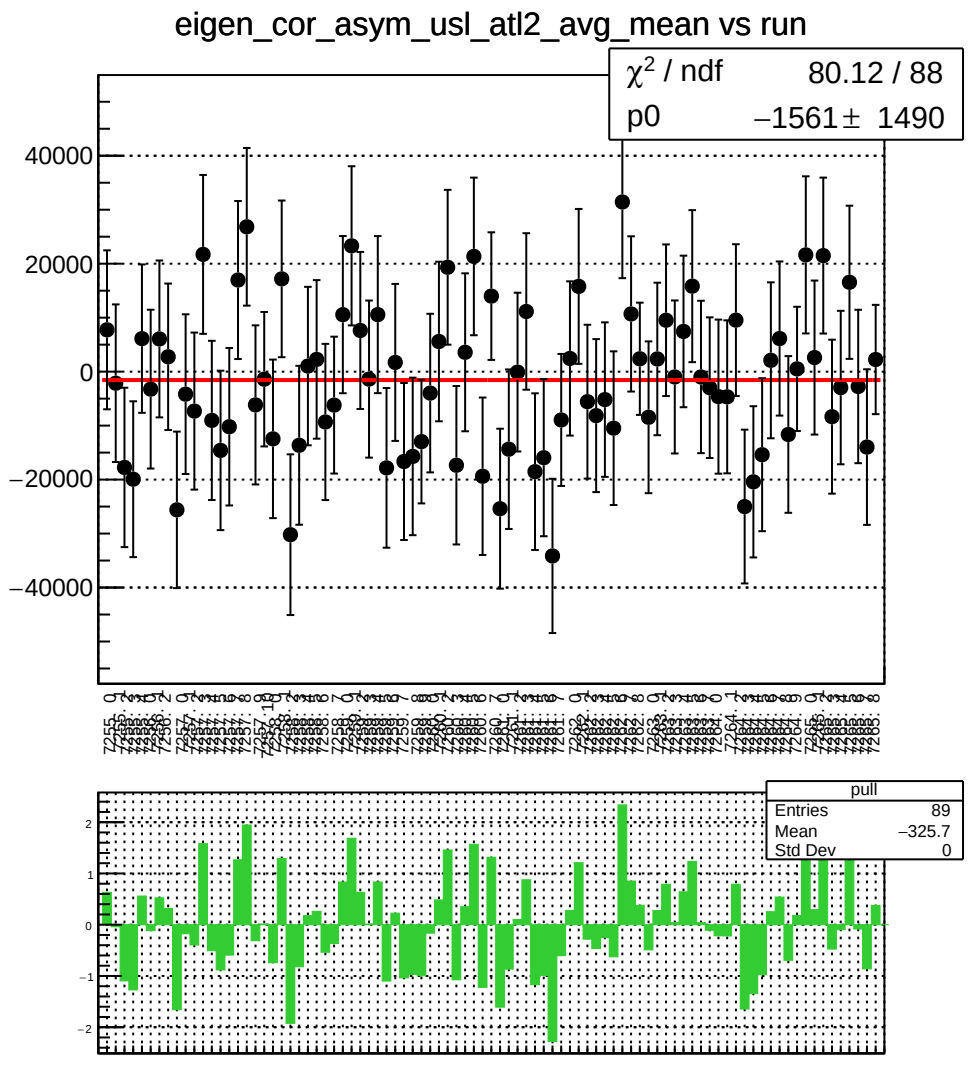

pull1D
Entries 89
Mean −0.004872
Std Dev 0.9488
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

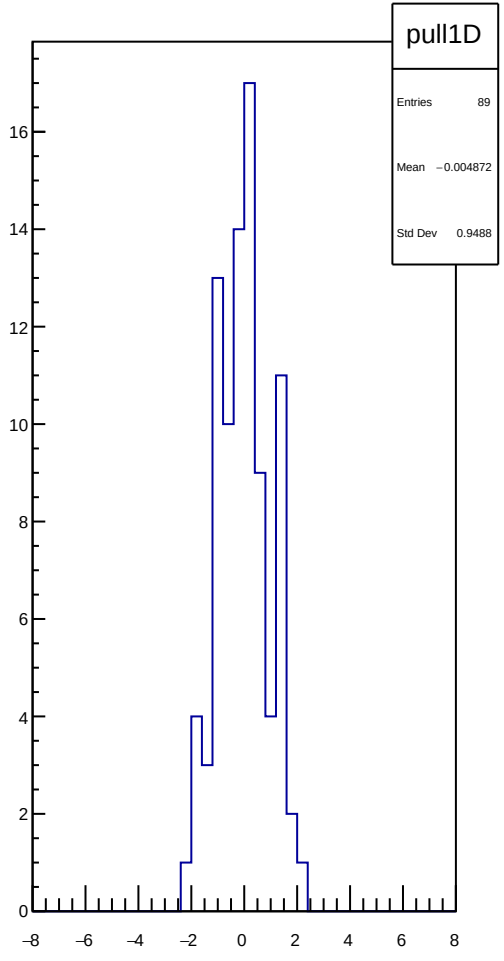

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 450.9 / 88
p0 1372 ± 1.054
1420
1400
1380
1360
1340
1320

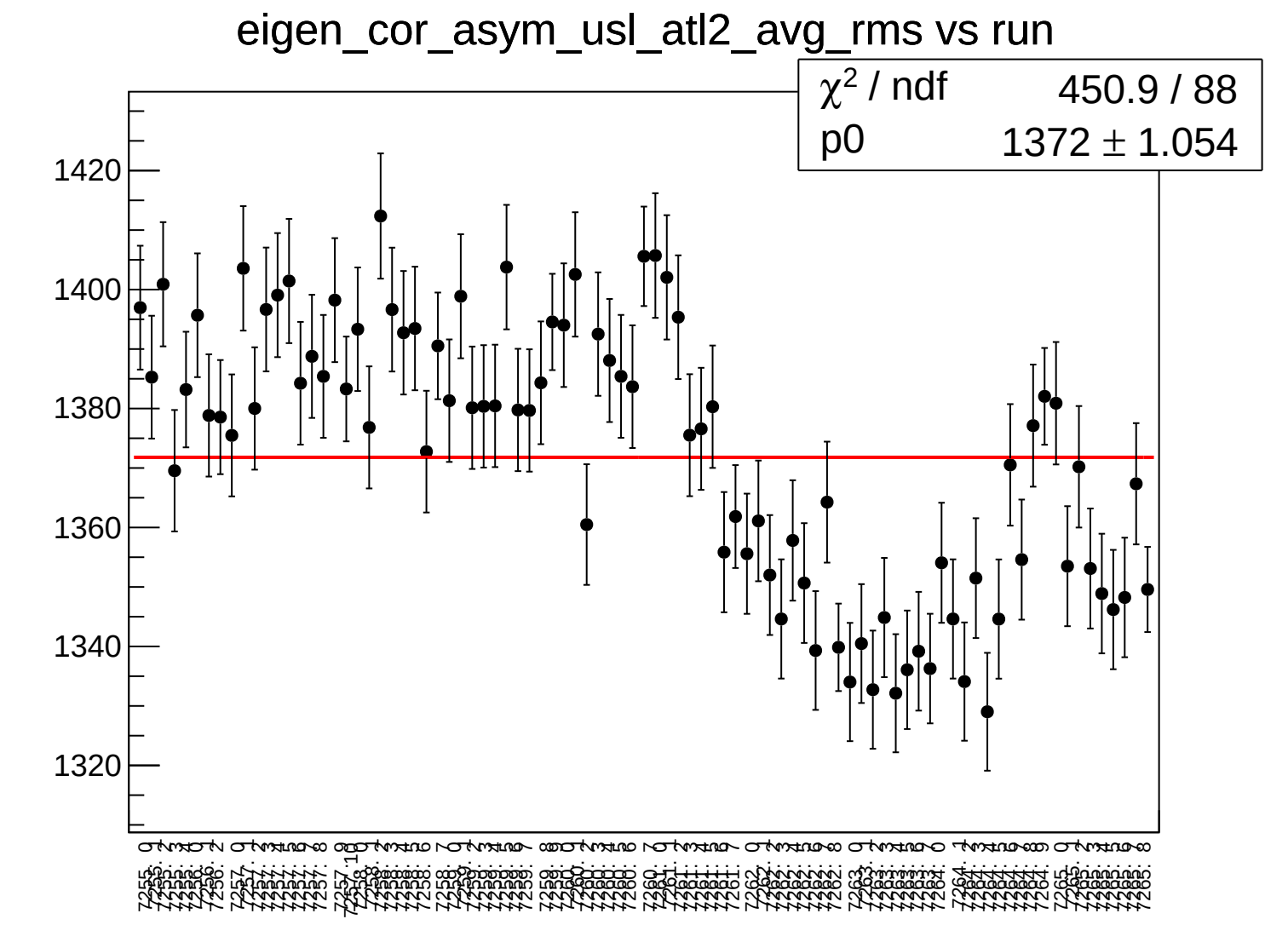

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 83.14 / 88
p0 2784 ± 5475
pull
Entries 89
Mean 1896
Std Dev 0

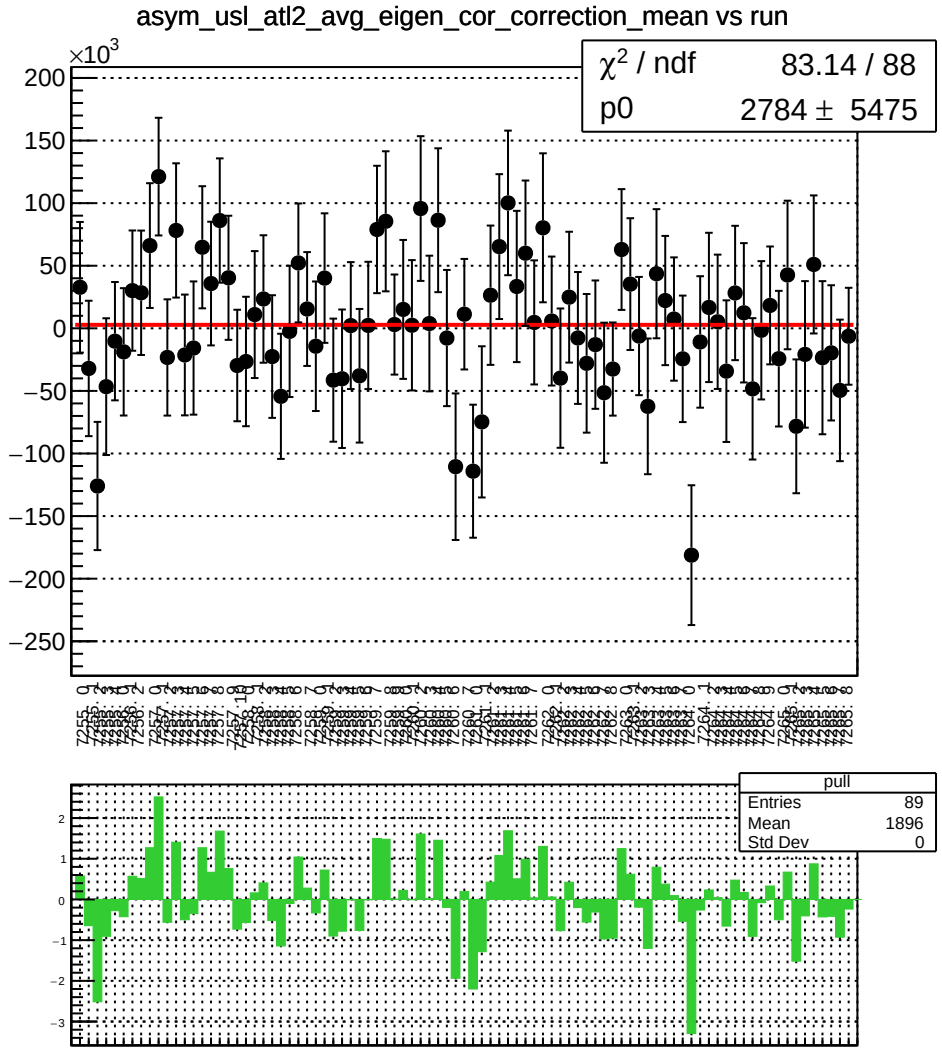

pull1D
Entries 89
Mean −0.001986
Std Dev 0.9665

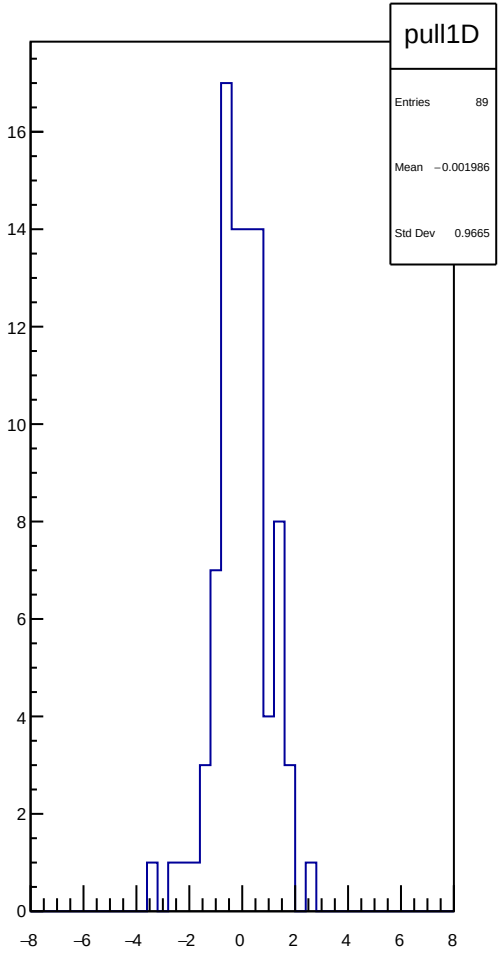

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 6898 / 88
p0 5030 ± 3.871
5800
5600
5400
5200
5000
4800
4600
4400

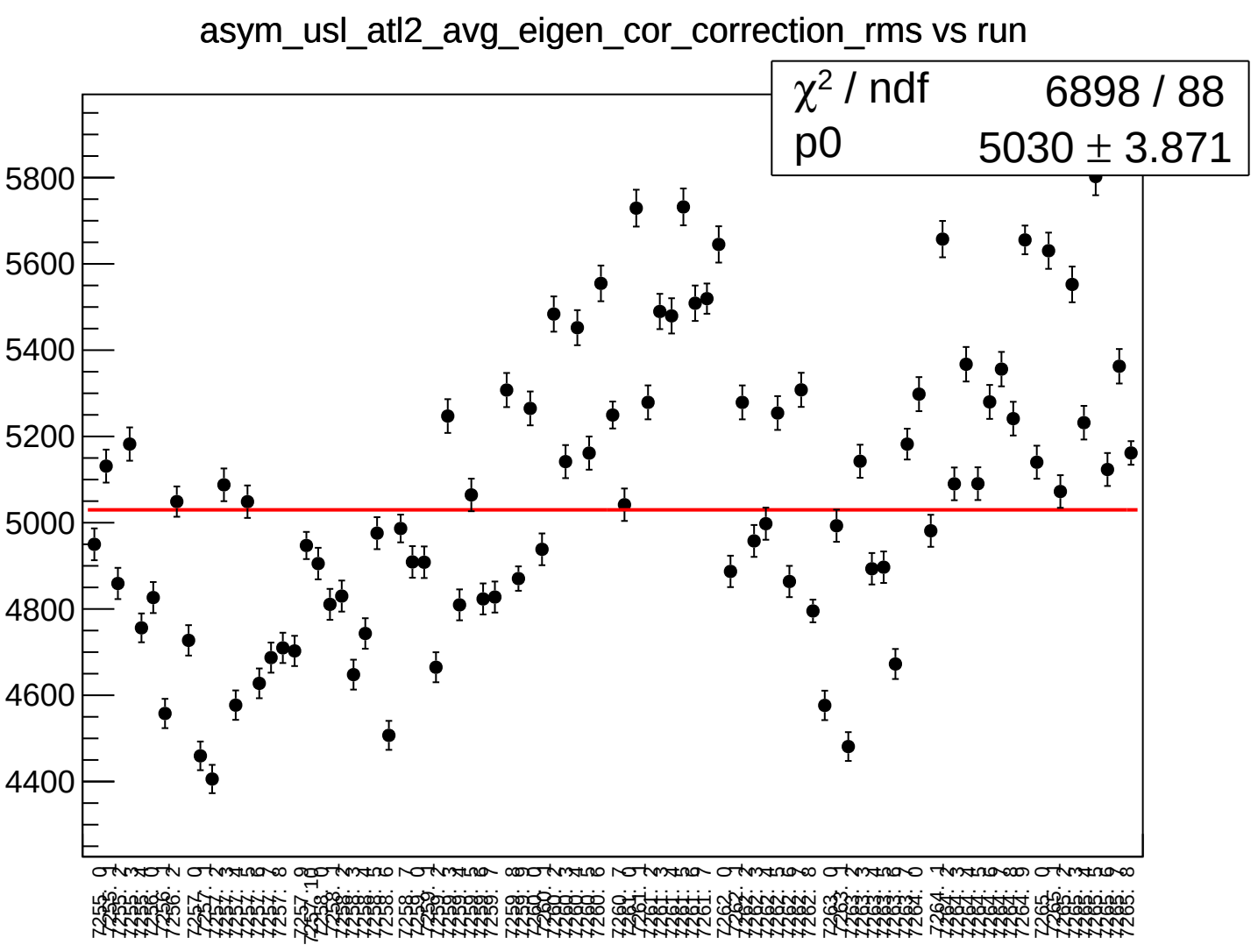

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 80.12 / 88
p0 −1561 ± 1490
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −325.7
Std Dev 0
2
1
0
−1
−2

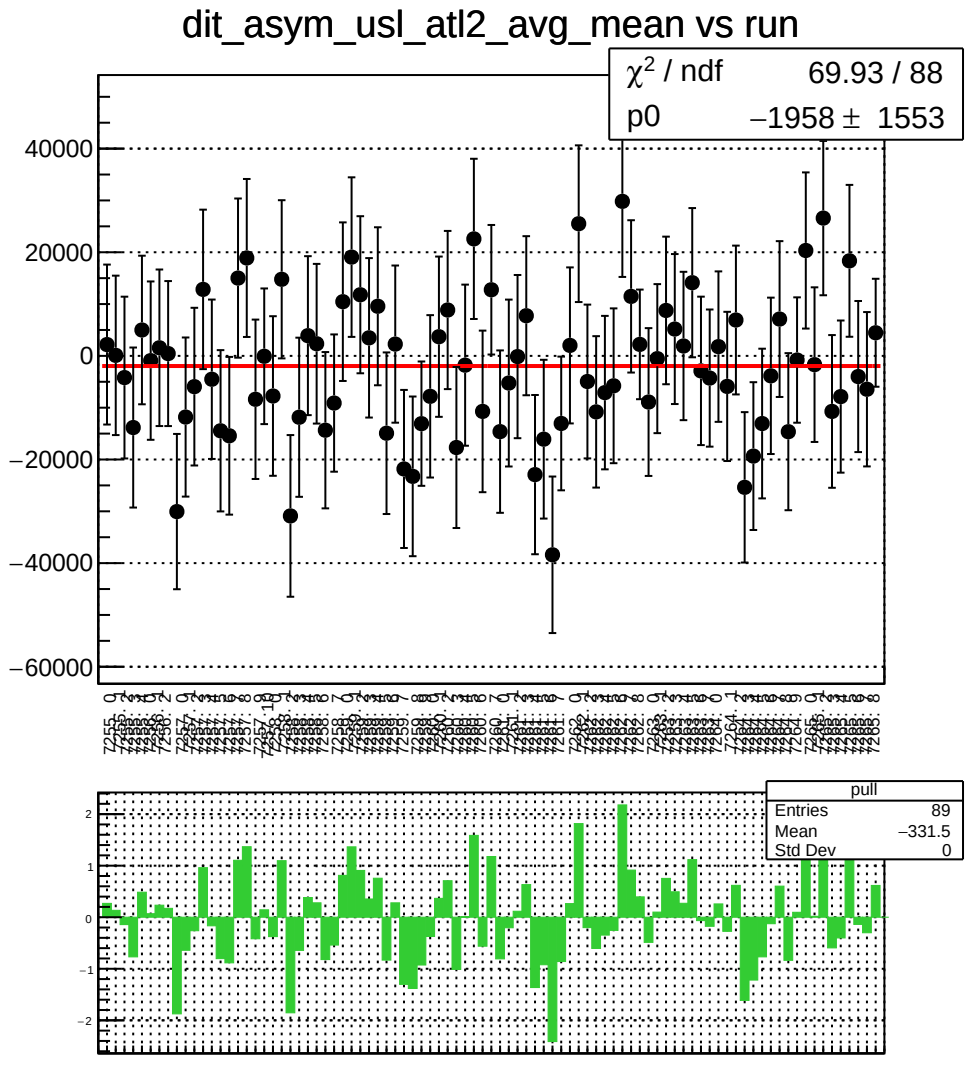

pull1D
Entries 89
Mean −0.004872
Std Dev 0.9488
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

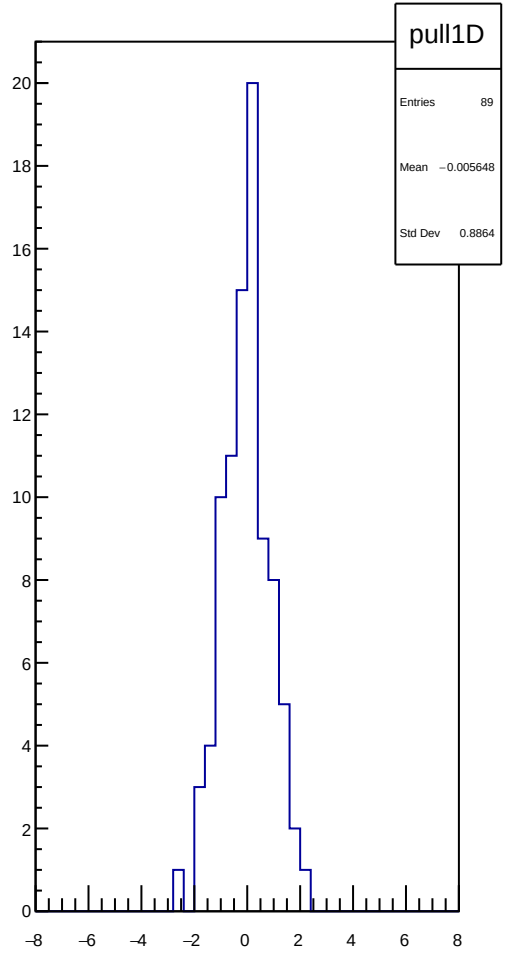

eigen_cor_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 450.9 / 88
p0 1372 ± 1.054
1420
1400
1380
1360
1340
1320

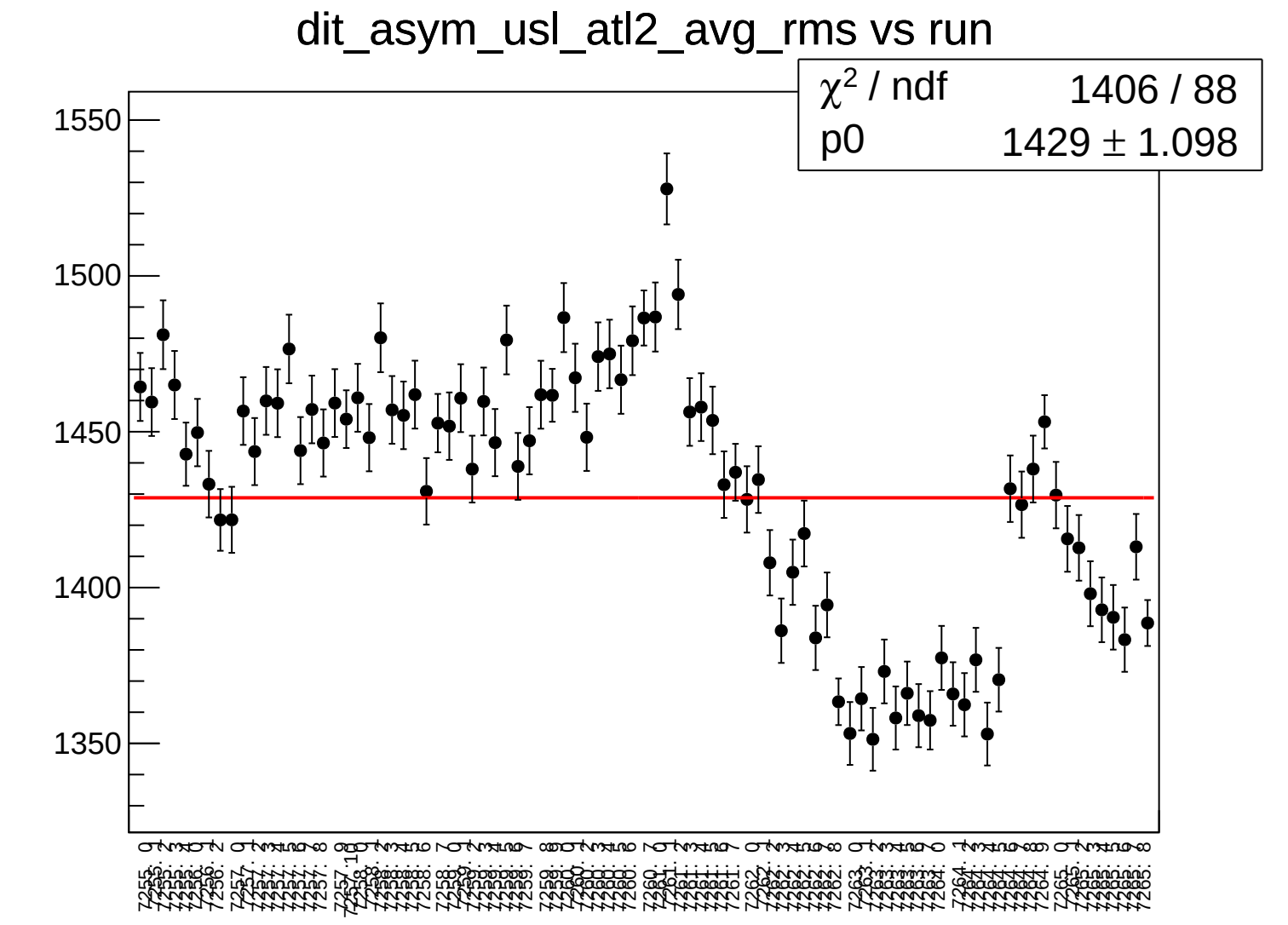

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.14 / 88
p0 2784 ± 5475
pull
Entries 89
Mean 1896
Std Dev 0

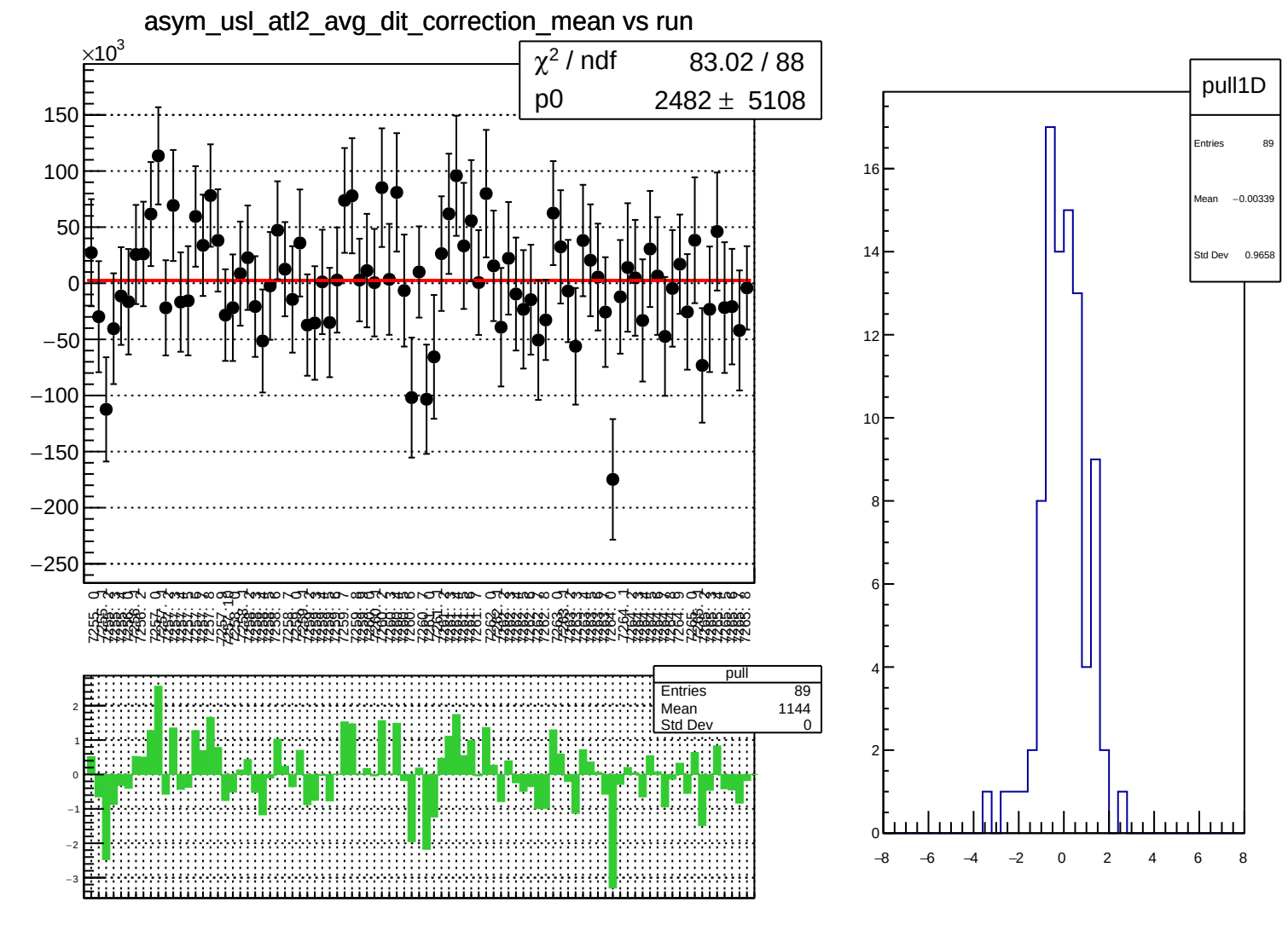

pull1D
Entries 89
Mean −0.001986
Std Dev 0.9665

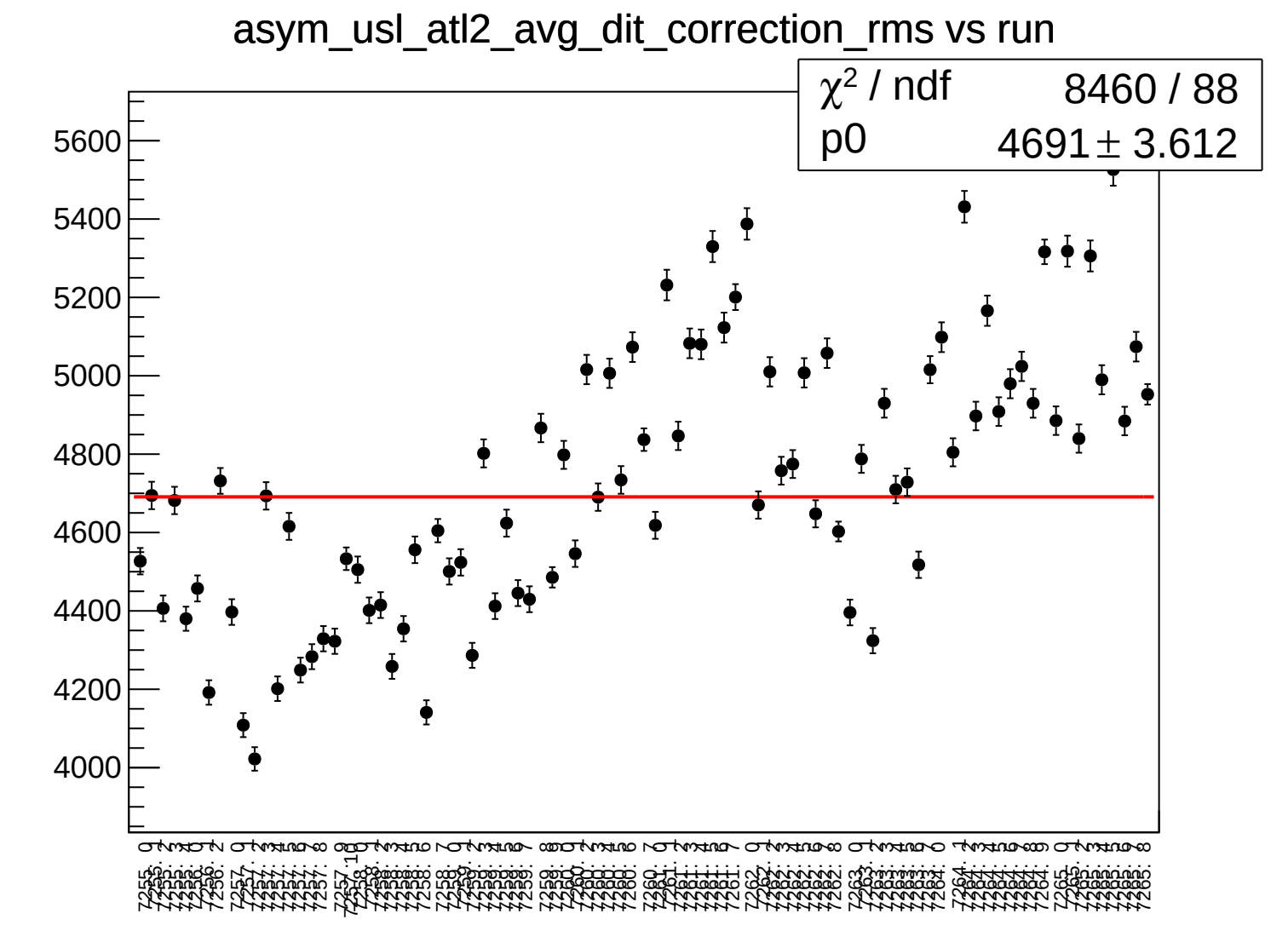

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6898 / 88
p0 5030 ± 3.871
5800
5600
5400
5200
5000
4800
4600
4400

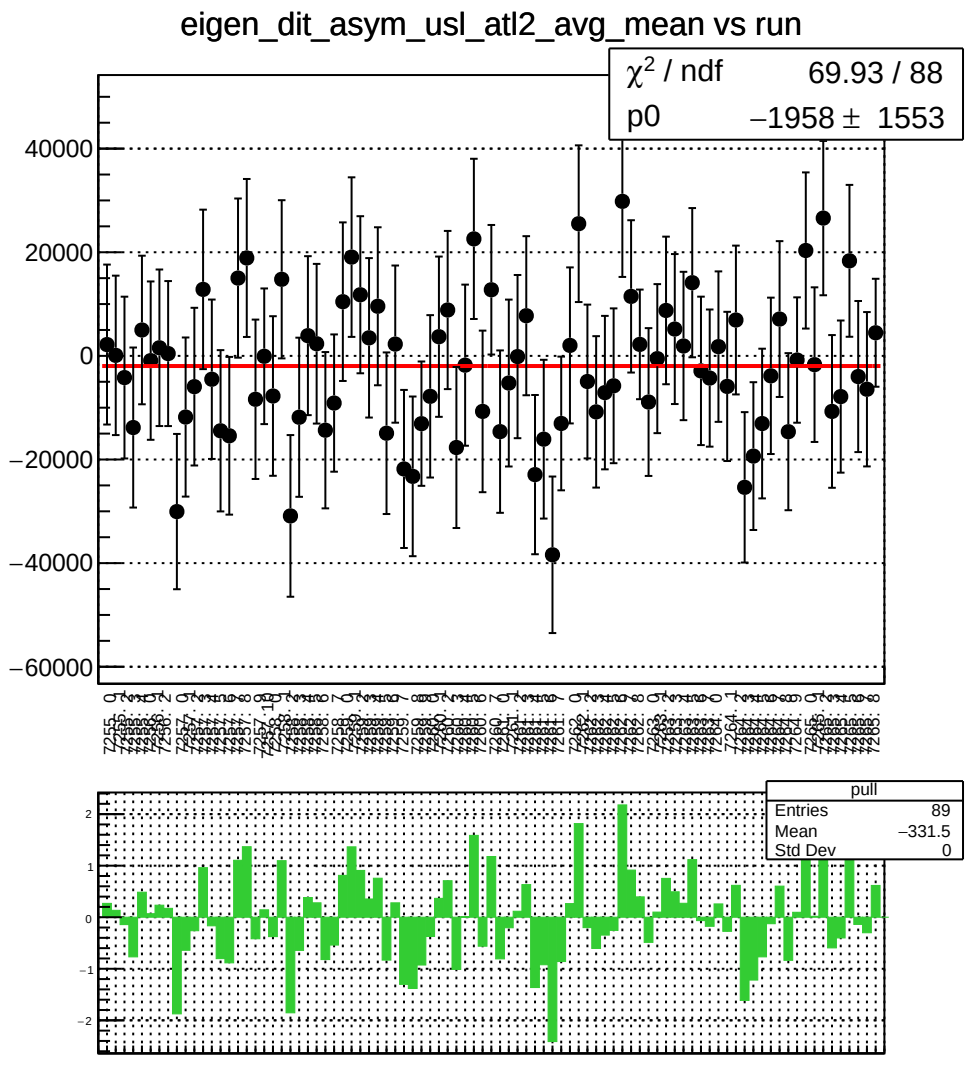

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 69.93 / 88
p0 −1958 ± 1553
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −331.5
Std Dev 0
2
1
0
−1
−2

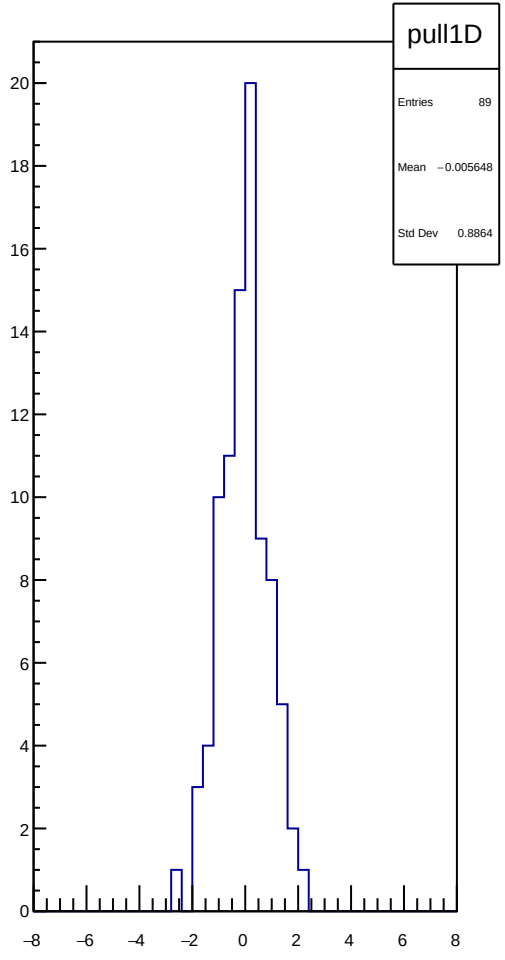

pull1D
Entries 89
Mean −0.005648
Std Dev 0.8864
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

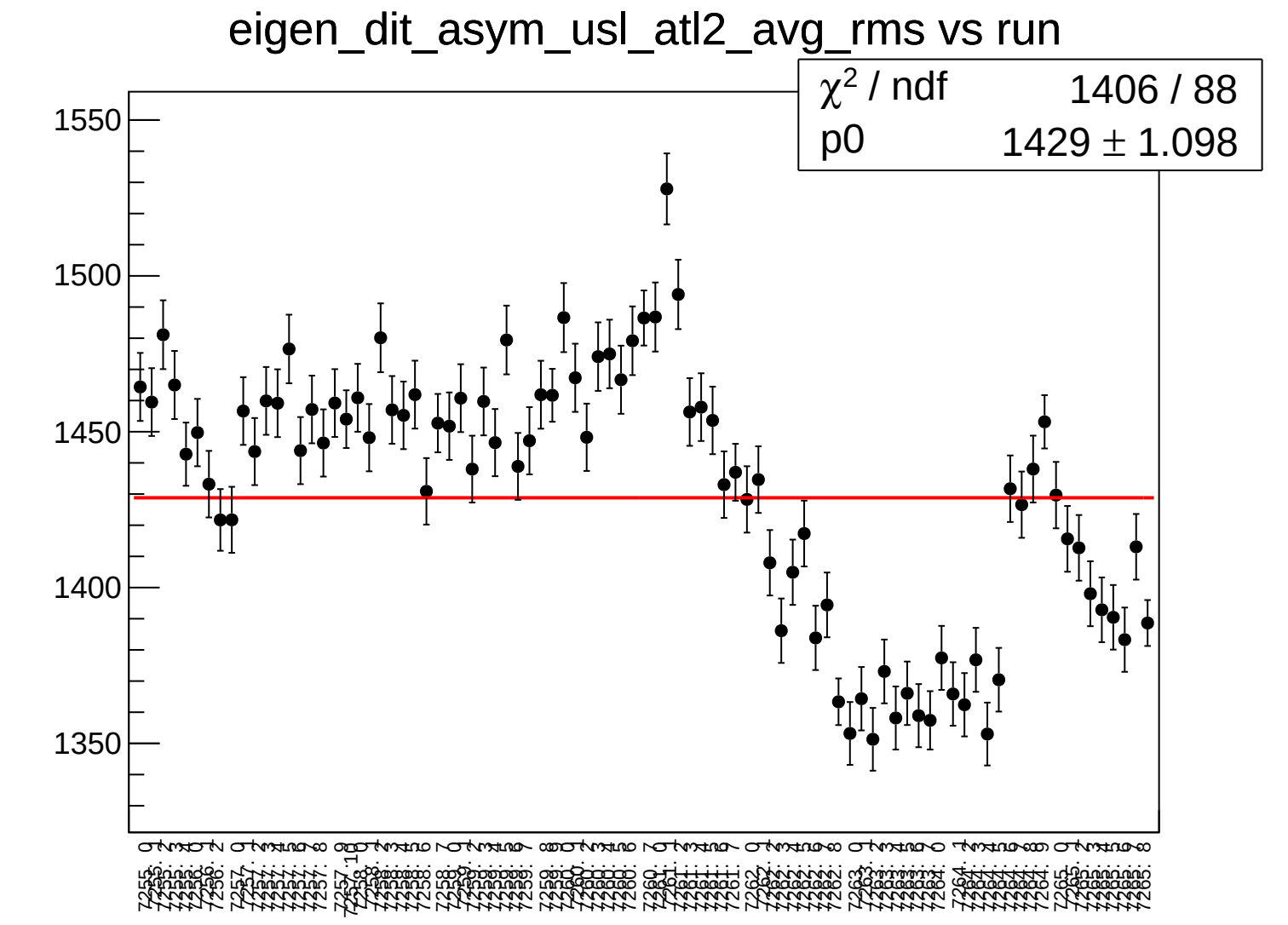

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1406 / 88
p0 1429 ± 1.098
1550
1500
1450
1400
1350

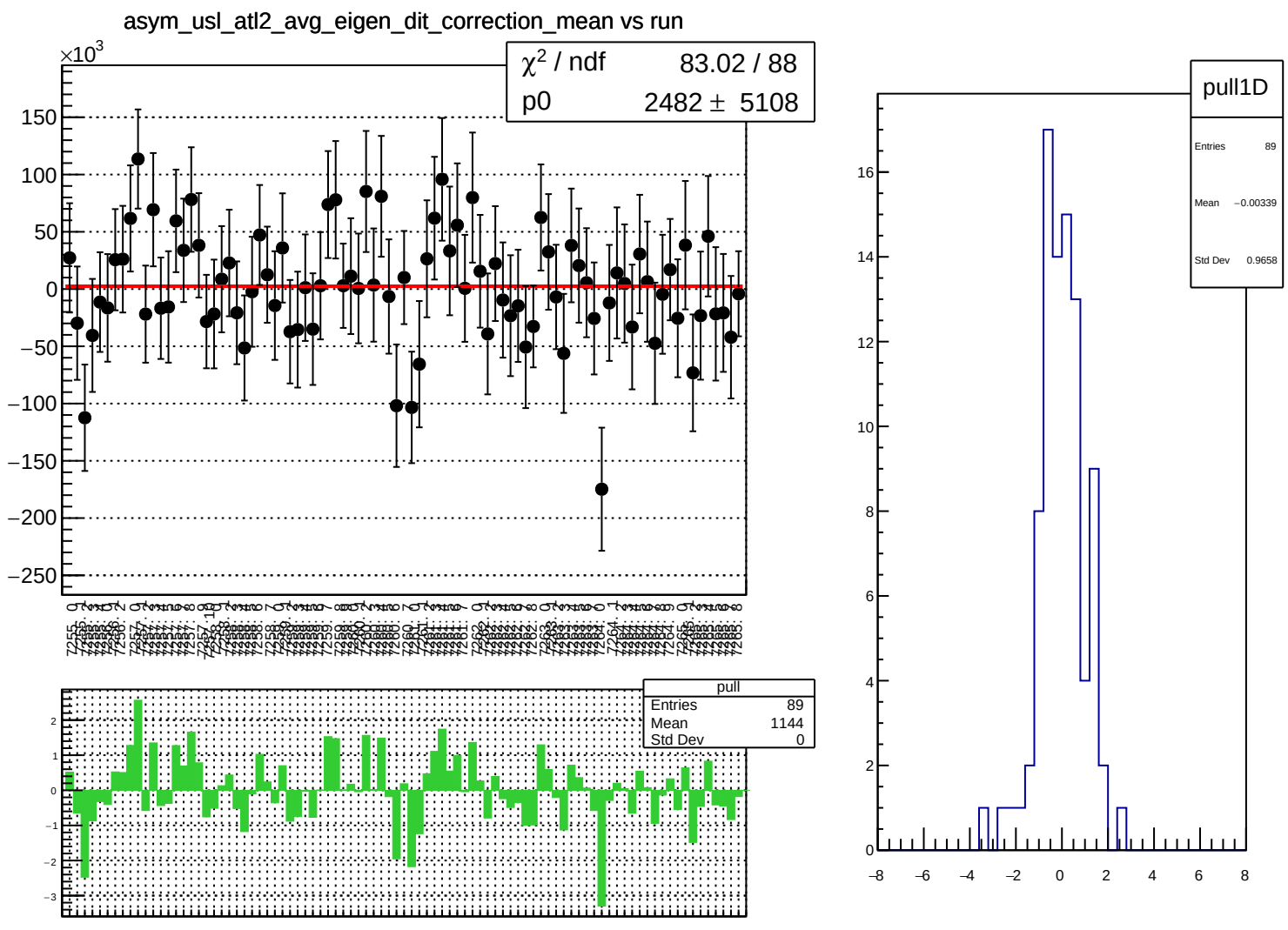

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 83.02 / 88
p0 2482 ± 5108
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean 1144
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.00339
Std Dev 0.9658
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

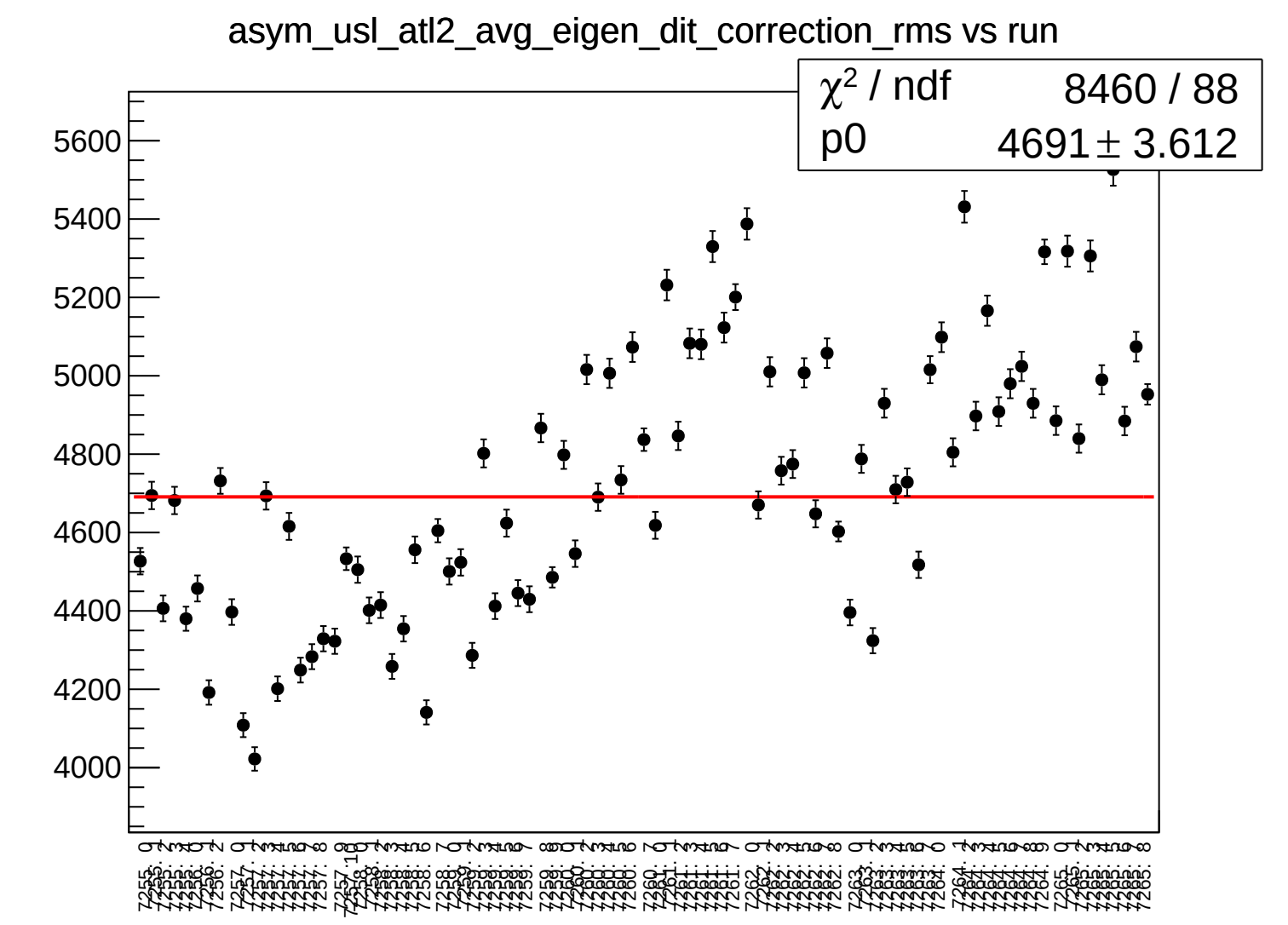

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 8460 / 88
p0 4691 ± 3.612
5600
5400
5200
5000
4800
4600
4400
4200
4000

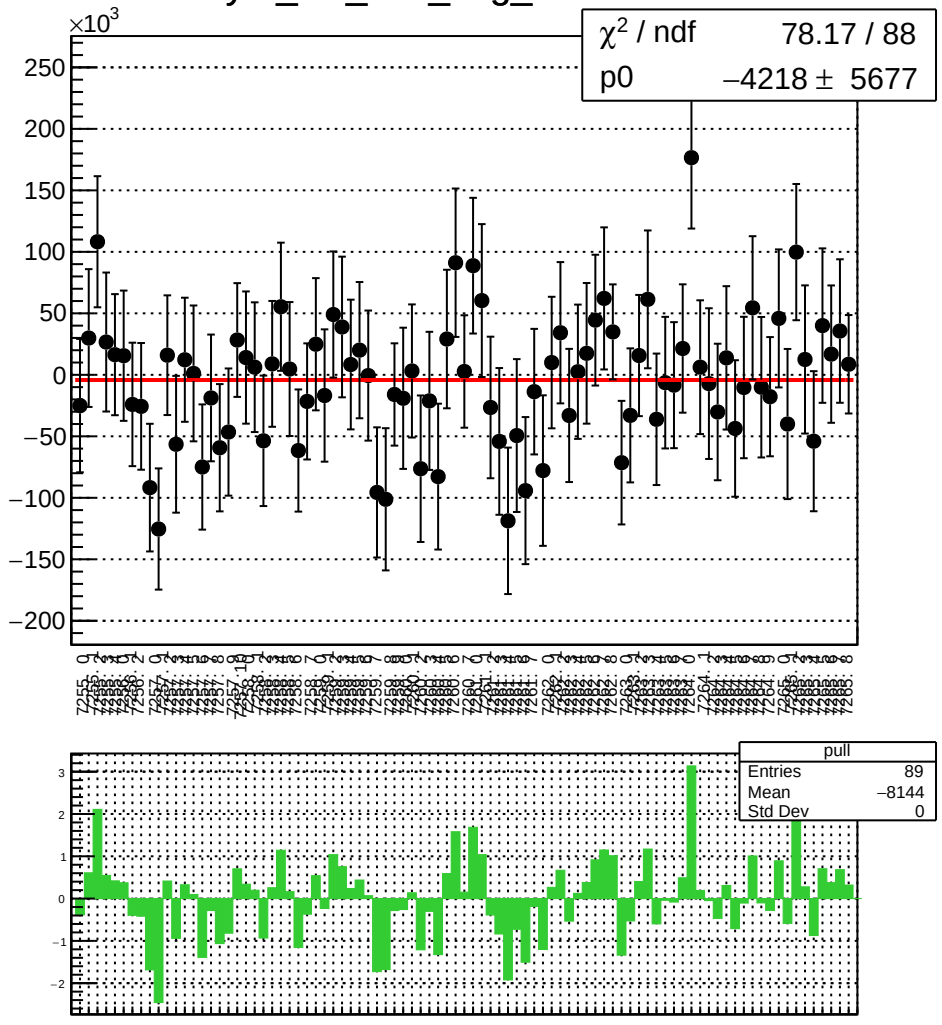

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 69.93 / 88
p0 −1958 ± 1553
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −331.5
Std Dev 0
2
1
0
−1
−2

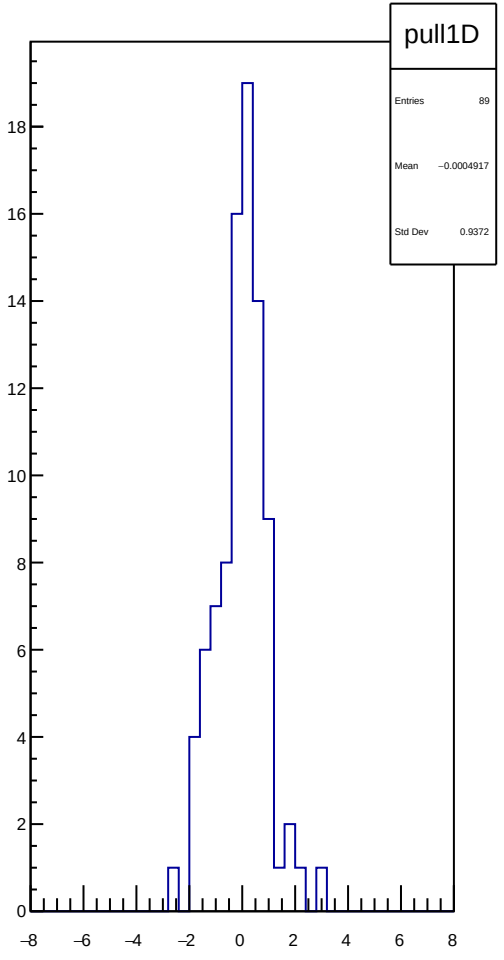

pull1D
Entries 89
Mean −0.005648
Std Dev 0.8864
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

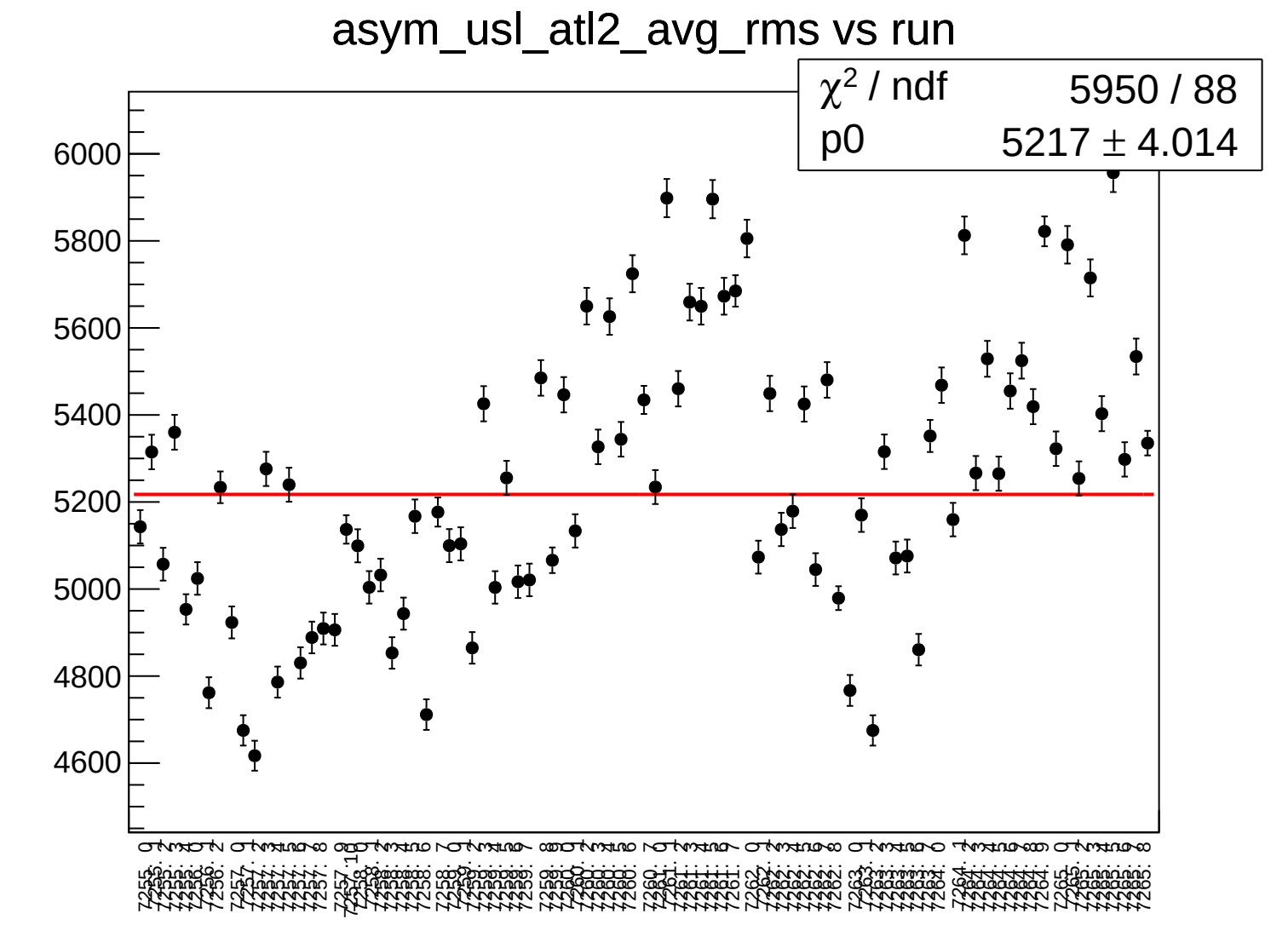

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1406 / 88
p0 1429 ± 1.098
1550
1500
1450
1400
1350

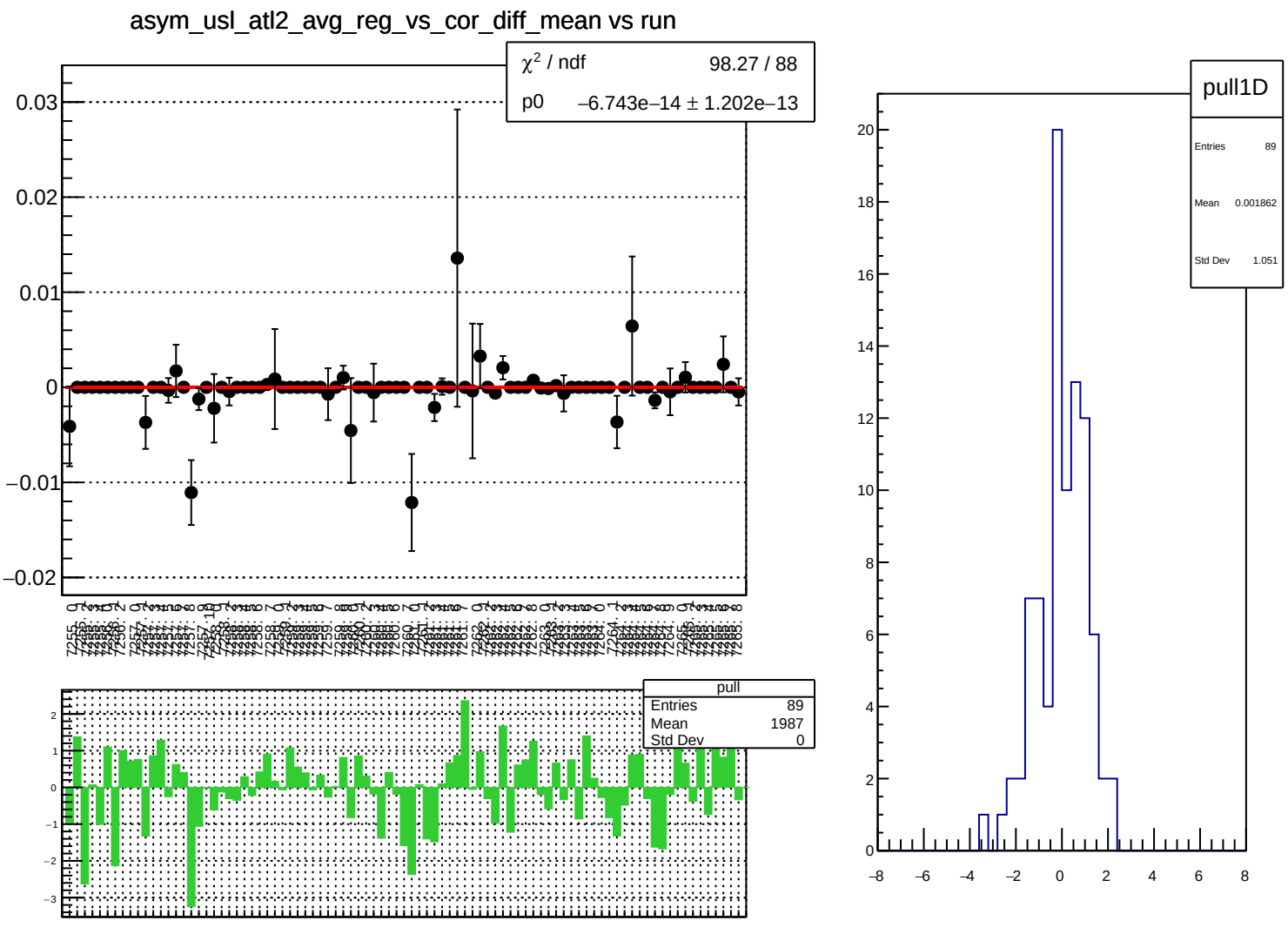

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 83.02 / 88
p0 2482 ± 5108
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean 1144
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.00339
Std Dev 0.9658
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

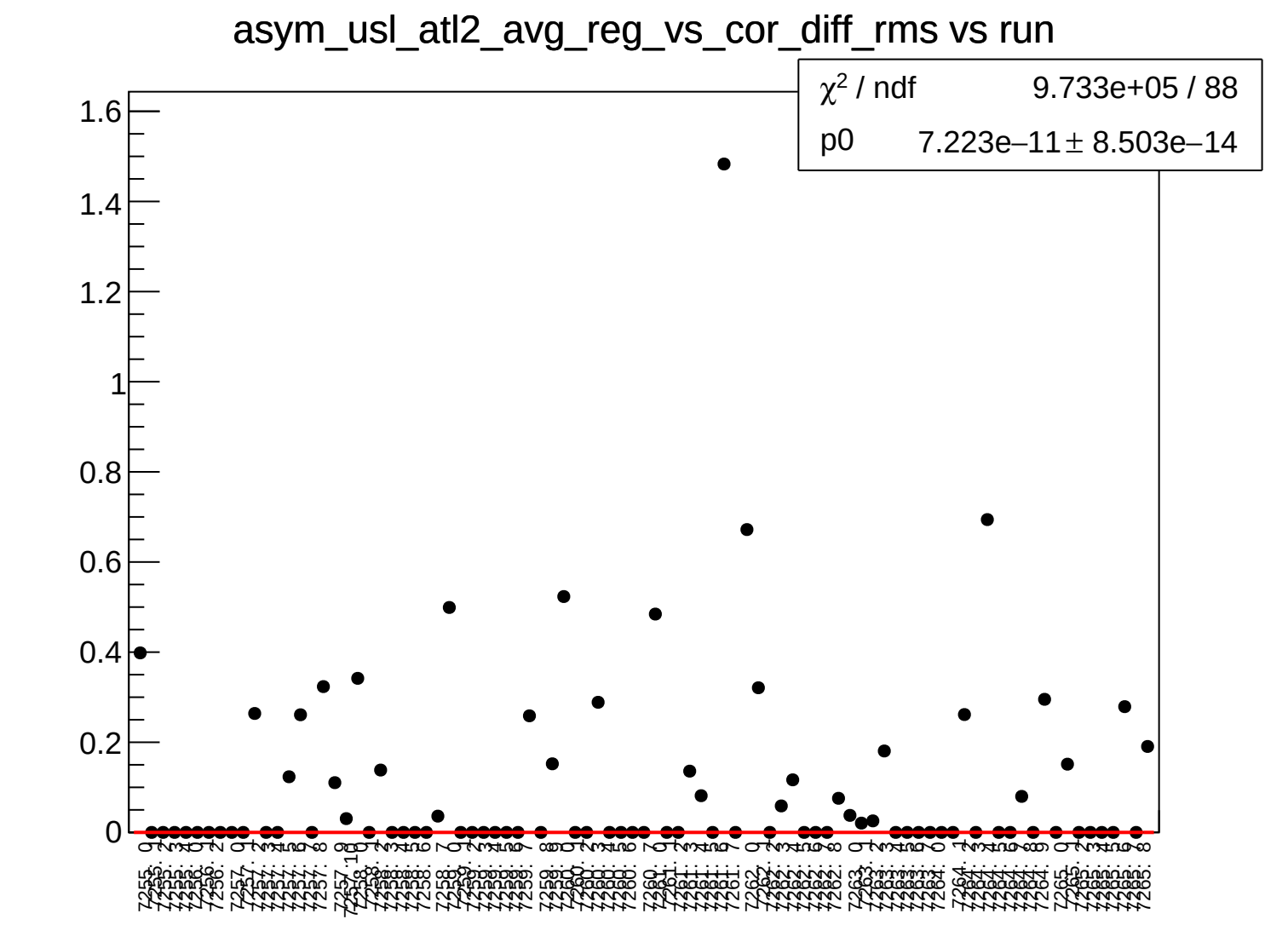

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 8460 / 88
p0 4691 ± 3.612
5600
5400
5200
5000
4800
4600
4400
4200
4000

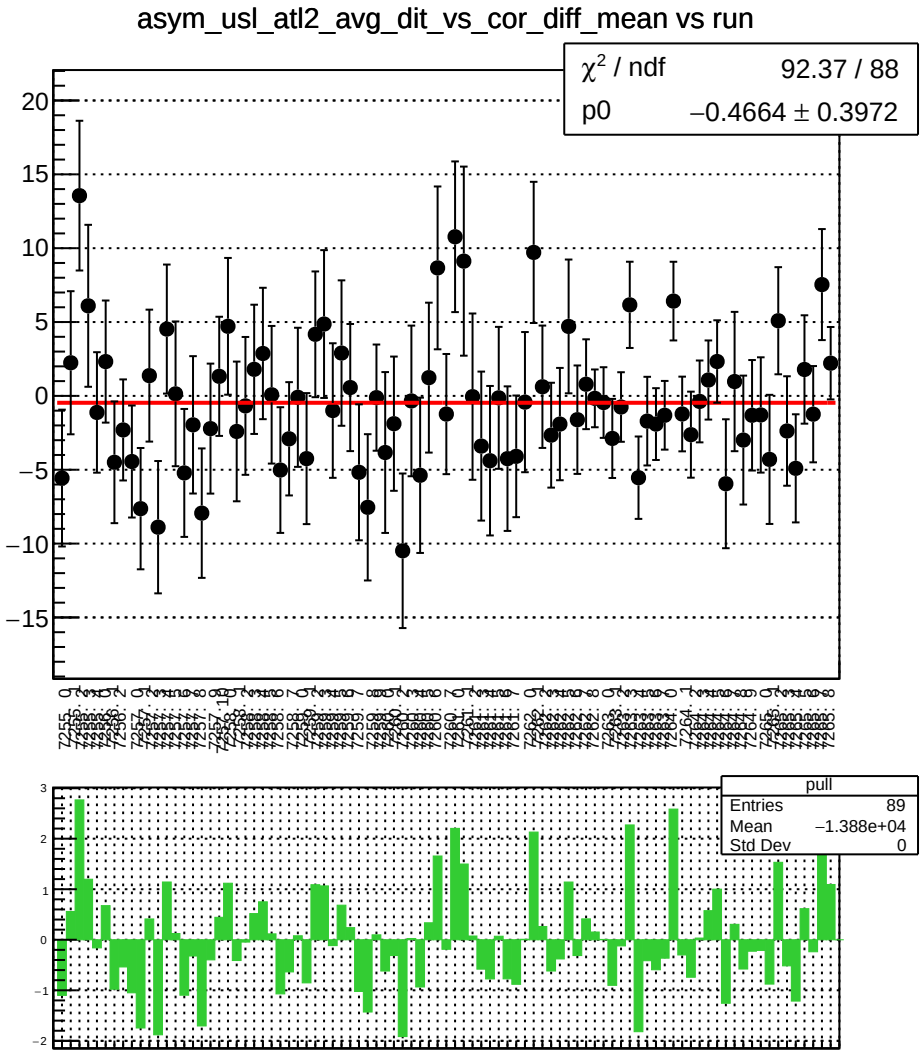

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 78.17 / 88
p0 −4218 ± 5677
pull
Entries 89
Mean −8144
Std Dev 0

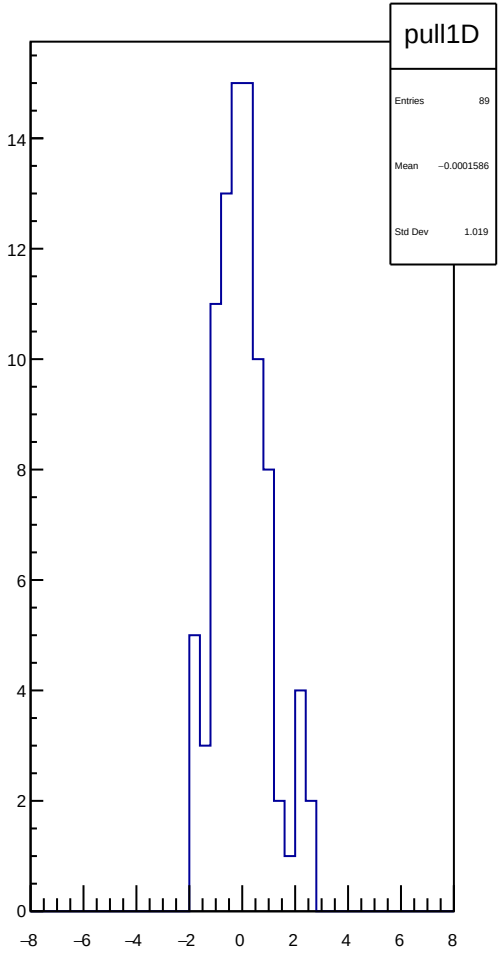

pull1D
Entries 89
Mean −0.0004917
Std Dev 0.9372

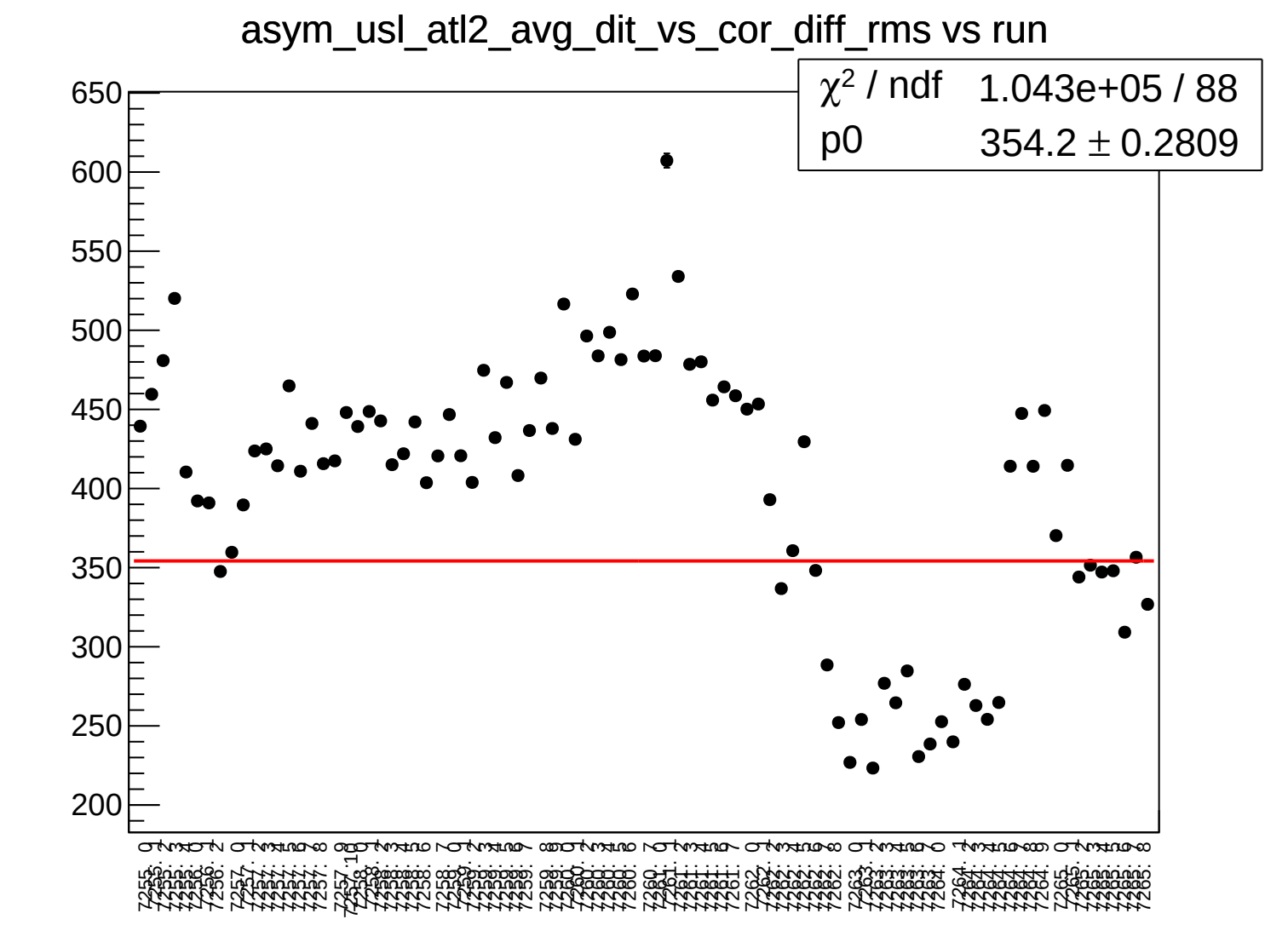

asym_usl_atl2_avg_rms vs run
χ² / ndf 5950 / 88
p0 5217 ± 4.014
6000
5800
5600
5400
5200
5000
4800
4600

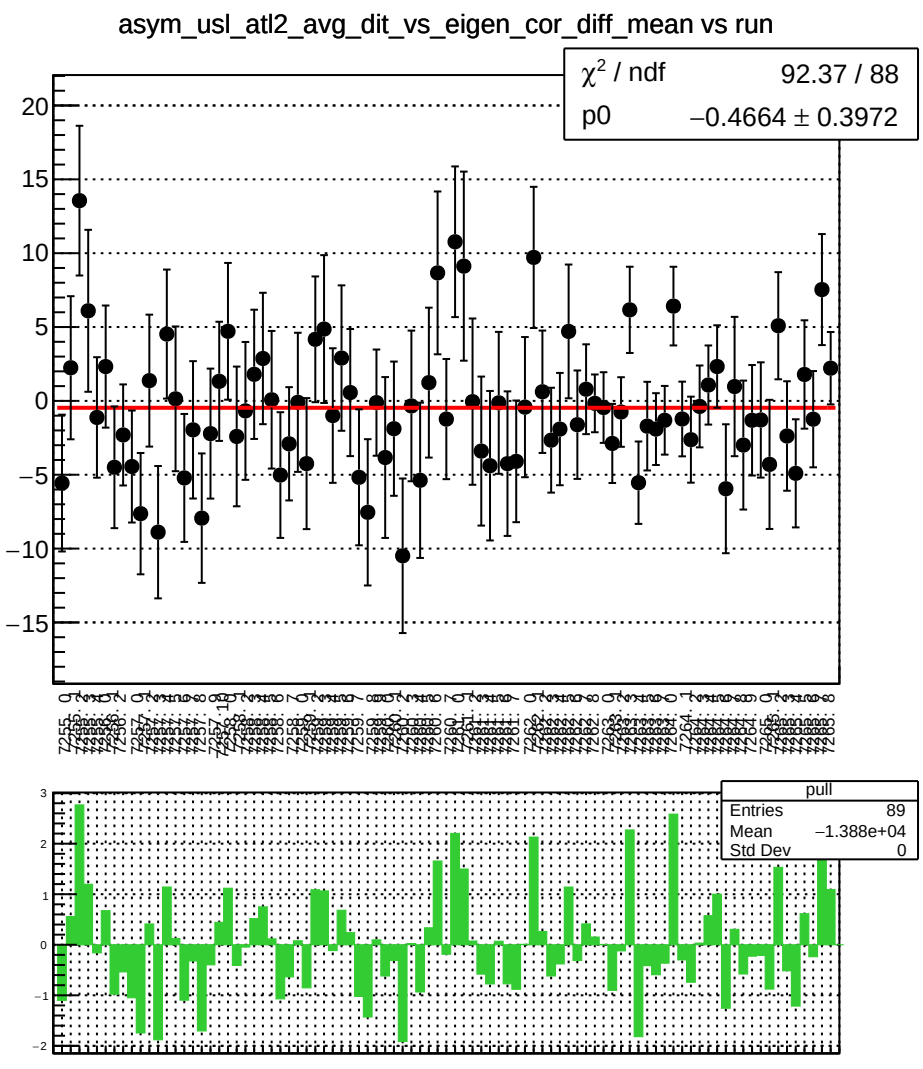

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.27 / 88
p0 −6.743e−14 ± 1.202e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 1987
Std Dev 0
pull1D
Entries 89
Mean 0.001862
Std Dev 1.051

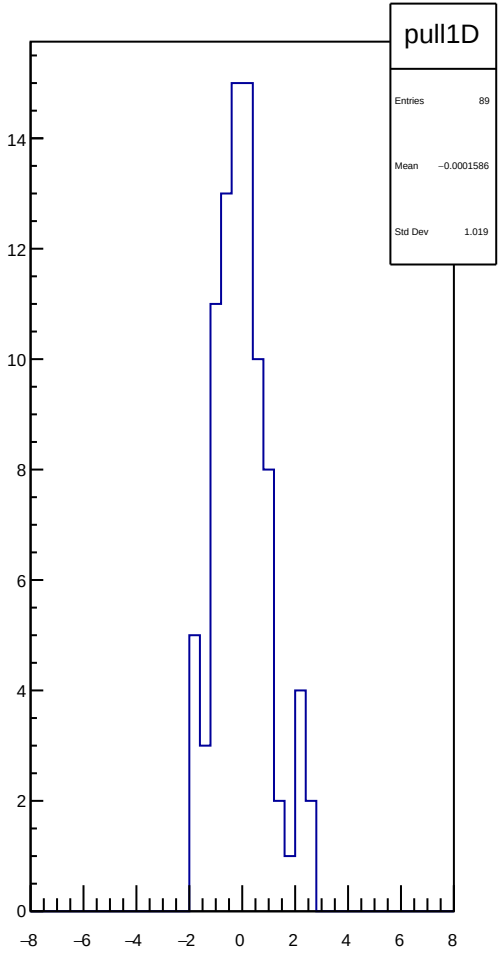

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.733e+05 / 88
p0 7.223e−11 ± 8.503e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

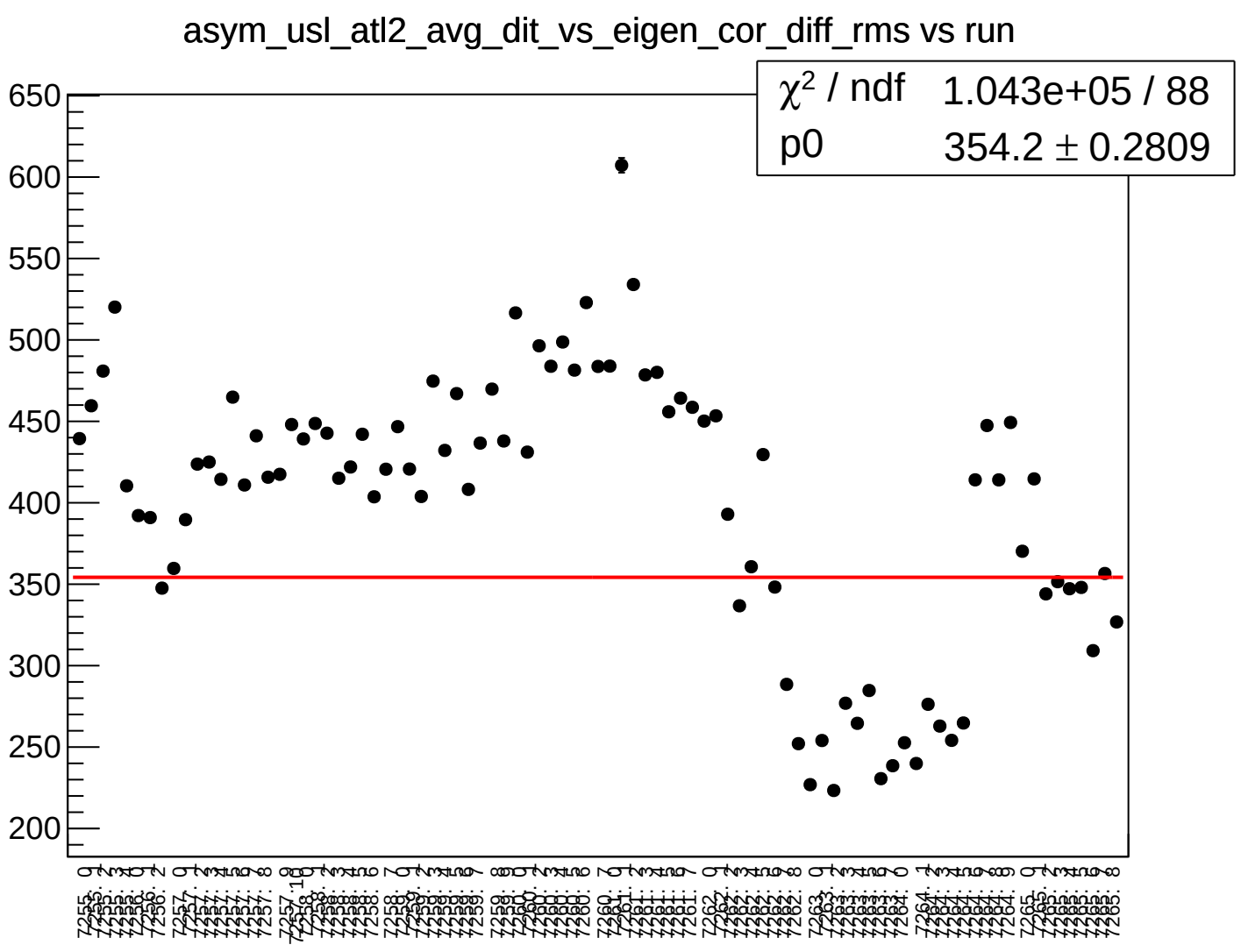

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.37 / 88
p0 −0.4664 ± 0.3972
pull
Entries 89
Mean −1.388e+04
Std Dev 0

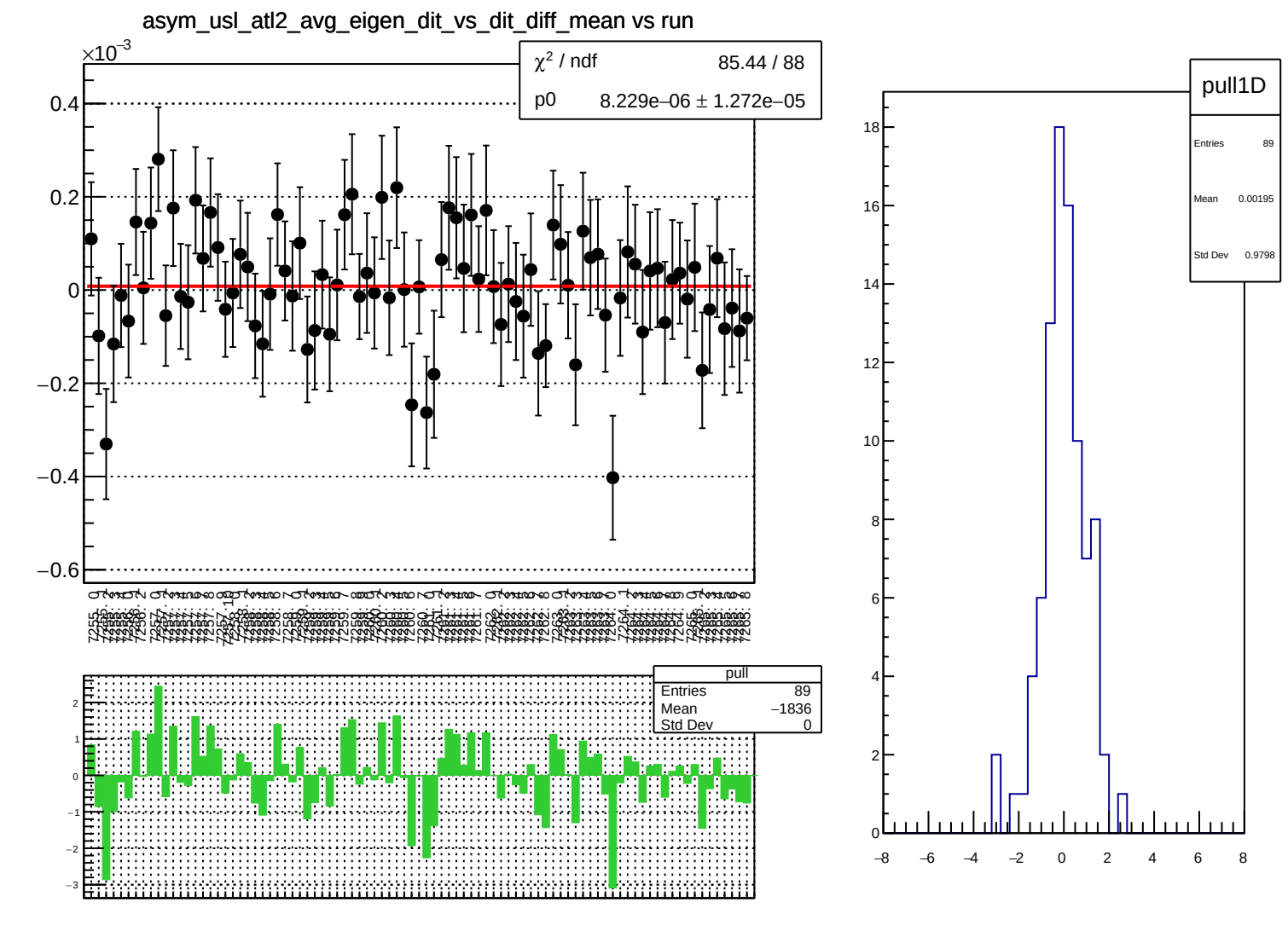

pull1D
Entries 89
Mean −0.0001586
Std Dev 1.019

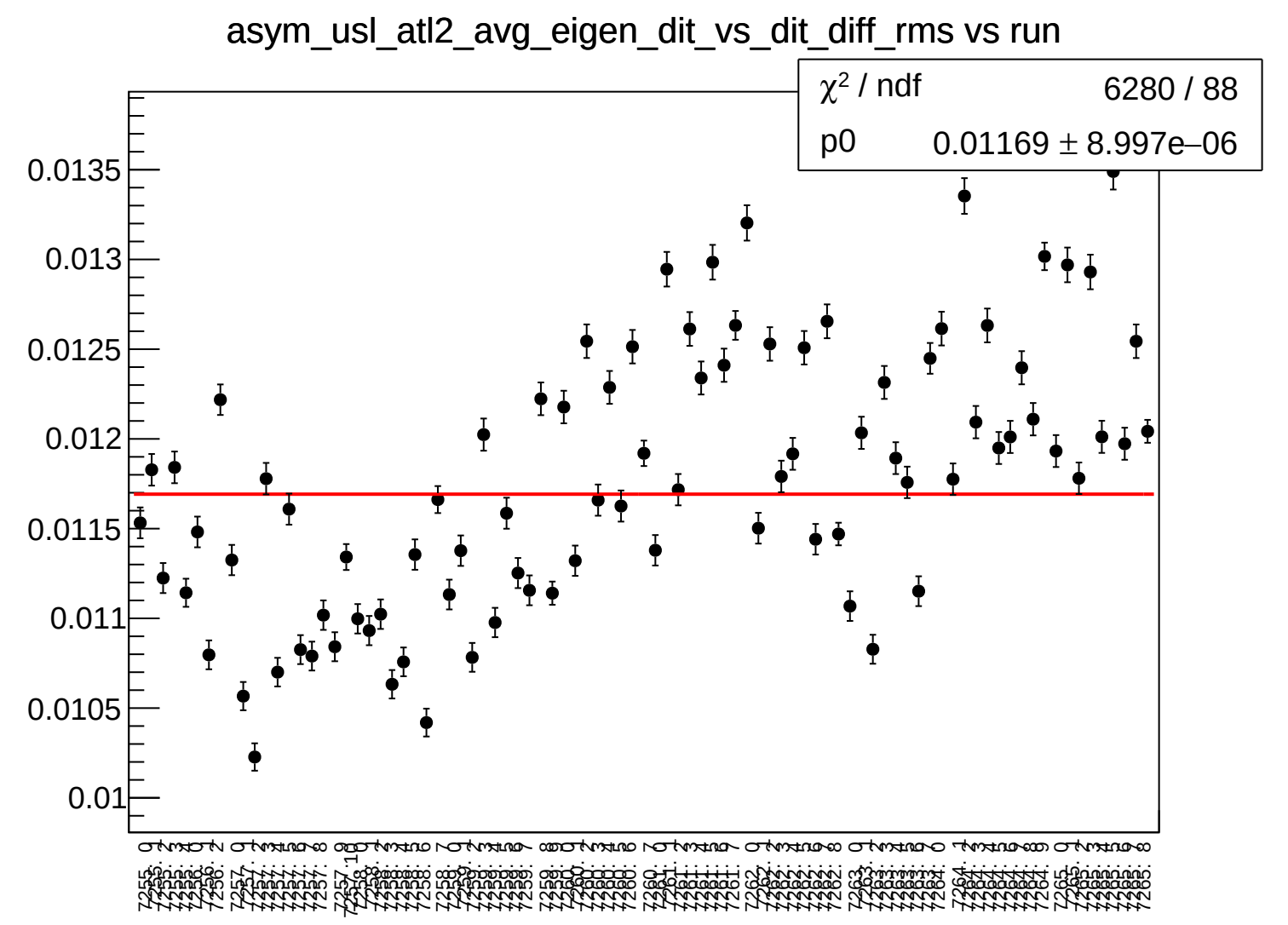

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.043e+05 / 88
p0 354.2 ± 0.2809
650
600
550
500
450
400
350
300
250
200

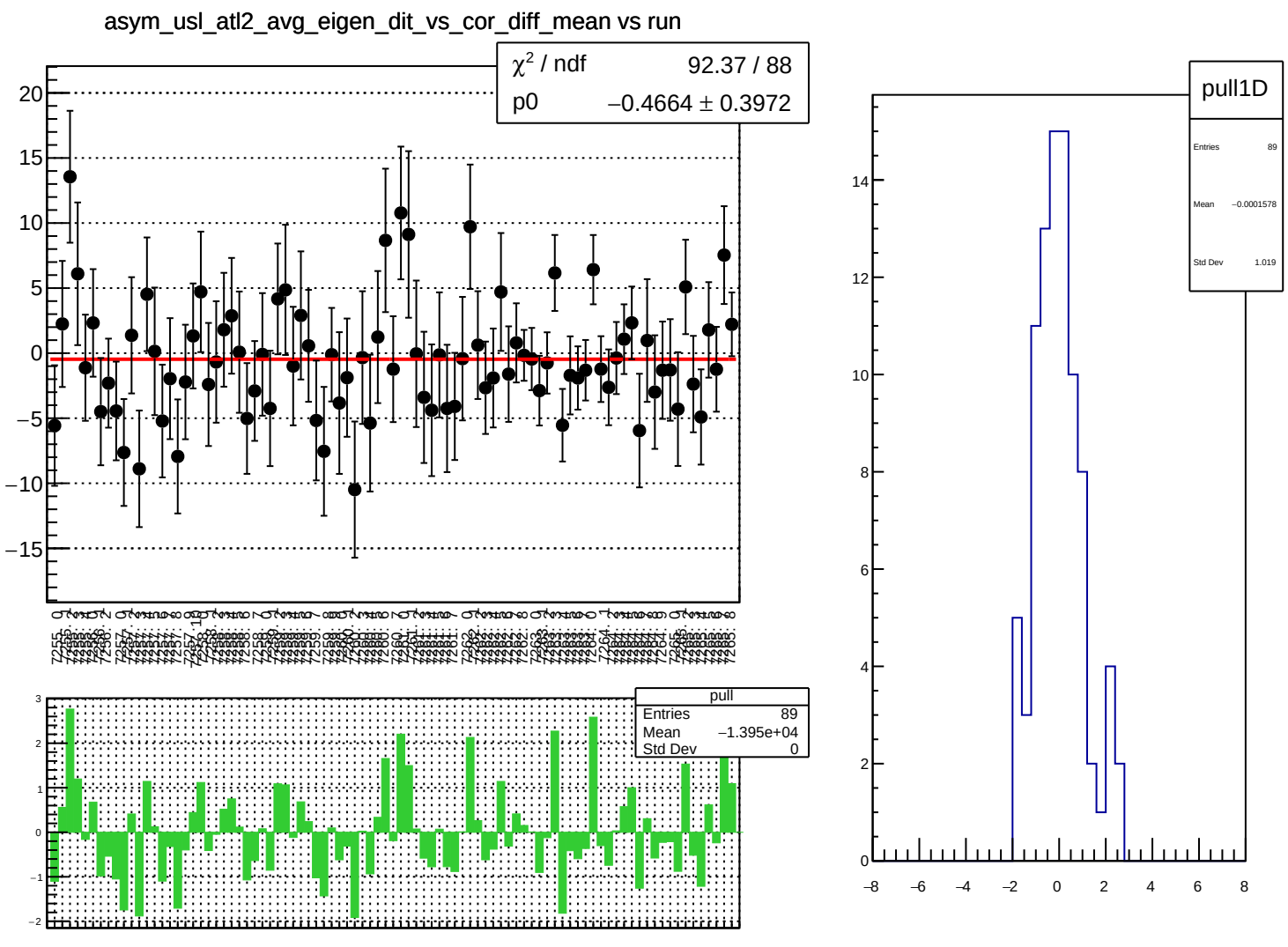

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.37 / 88
p0 −0.4664 ± 0.3972
pull
Entries 89
Mean −1.388e+04
Std Dev 0

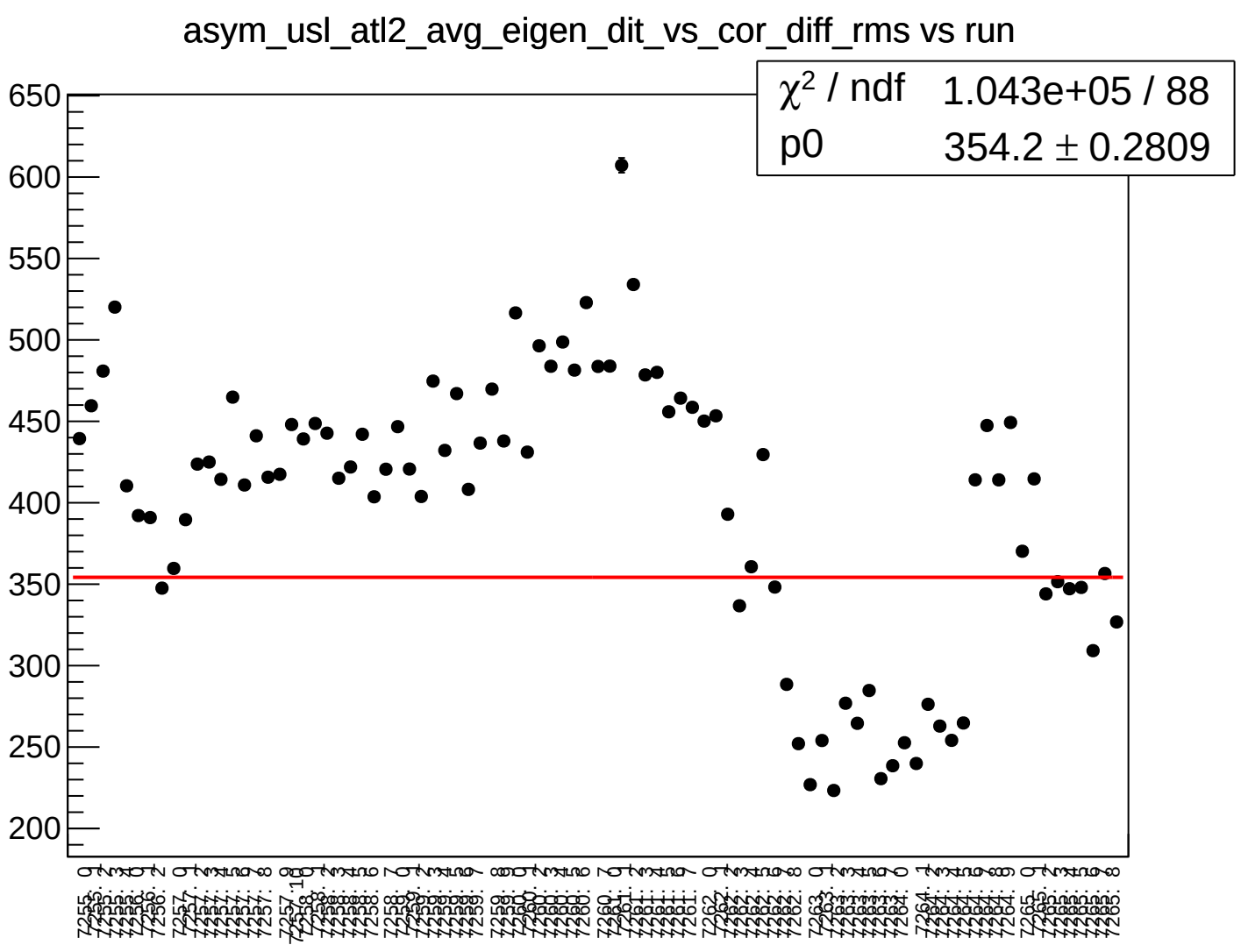

pull1D
Entries 89
Mean −0.0001586
Std Dev 1.019

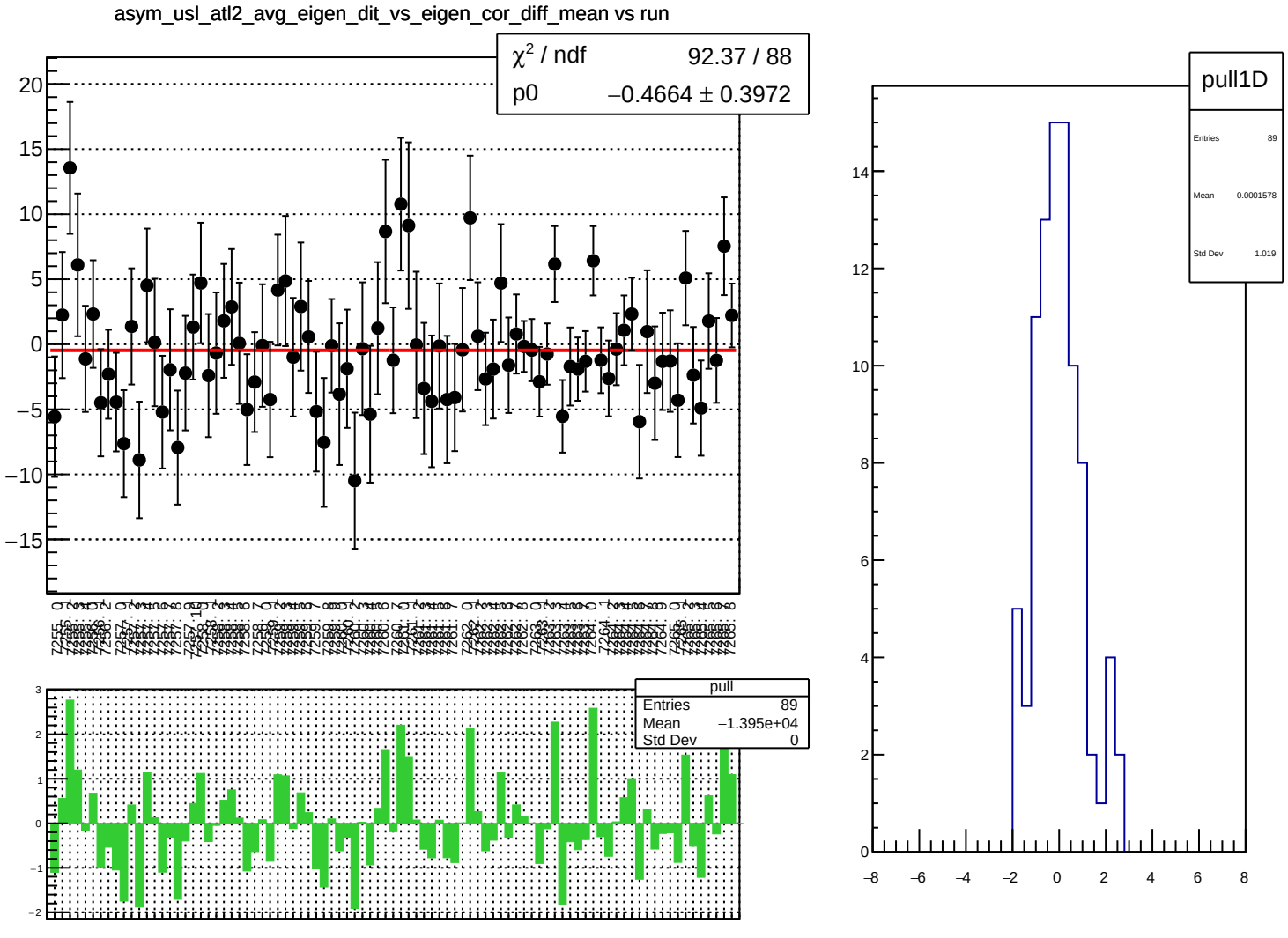

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.043e+05 / 88
p0 354.2 ± 0.2809
650
600
550
500
450
400
350
300
250
200

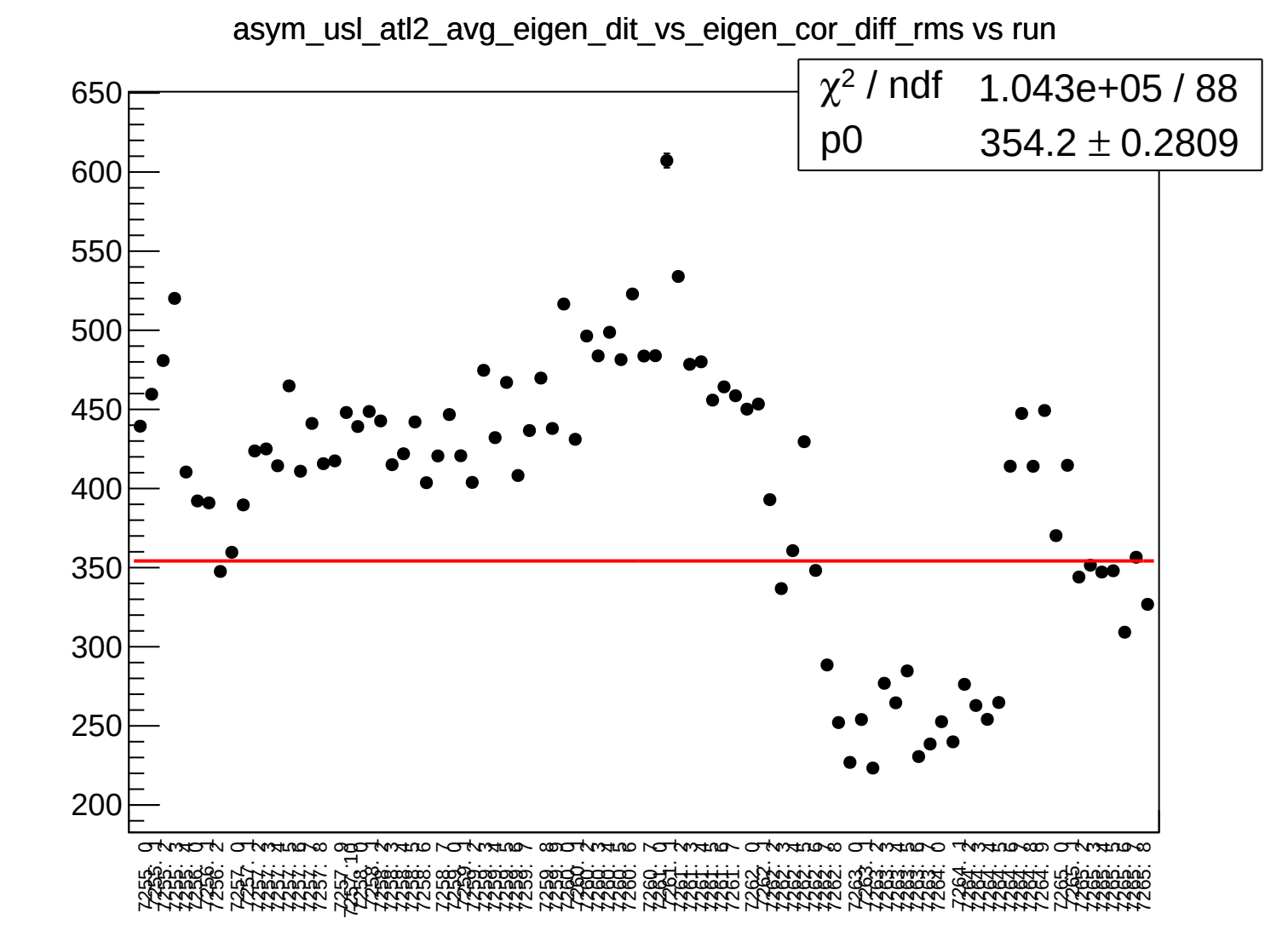

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.44 / 88
p0 8.229e−06 ± 1.272e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 89
Mean −1836
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.00195
Std Dev 0.9798
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

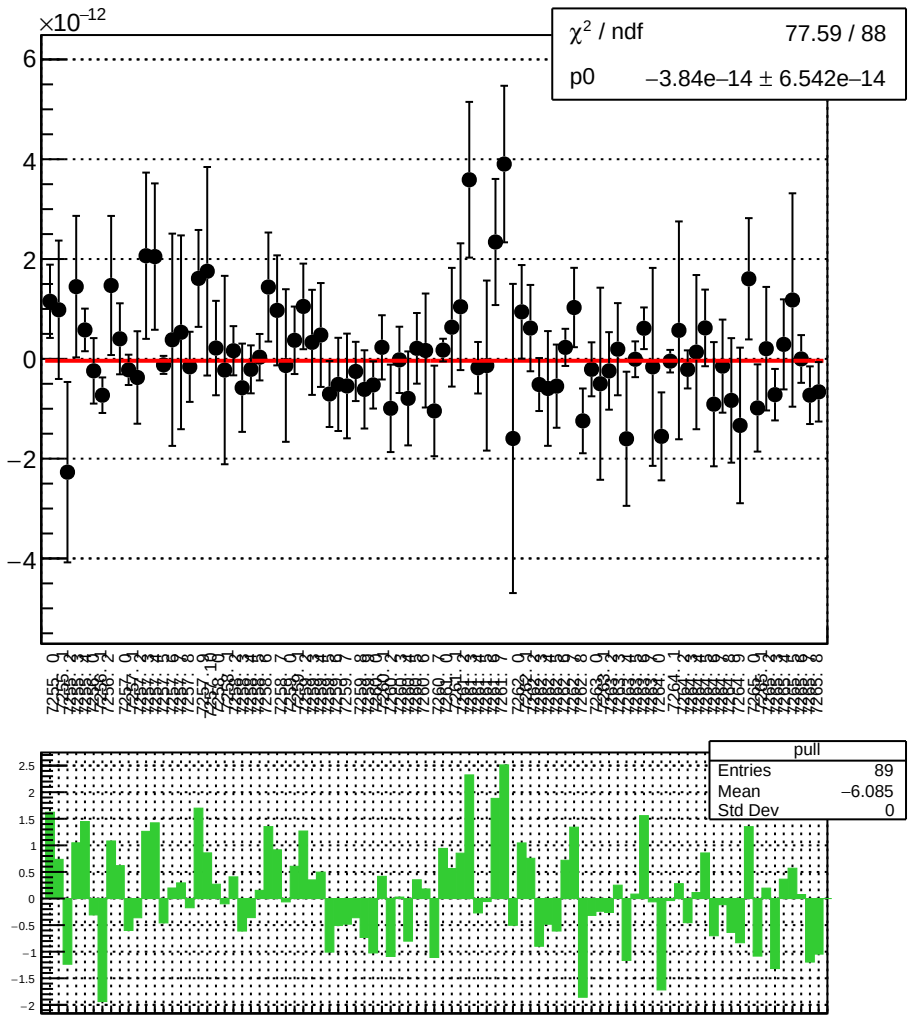

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6280 / 88
p0 0.01169 ± 8.997e−06
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01

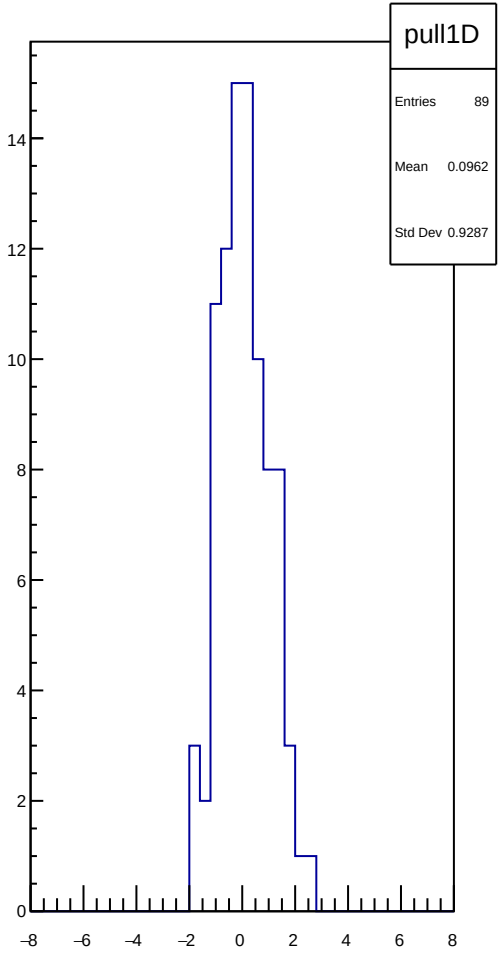

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.37 / 88
p0 −0.4664 ± 0.3972
pull
Entries 89
Mean −1.395e+04
Std Dev 0
pull1D
Entries 89
Mean −0.0001578
Std Dev 1.019

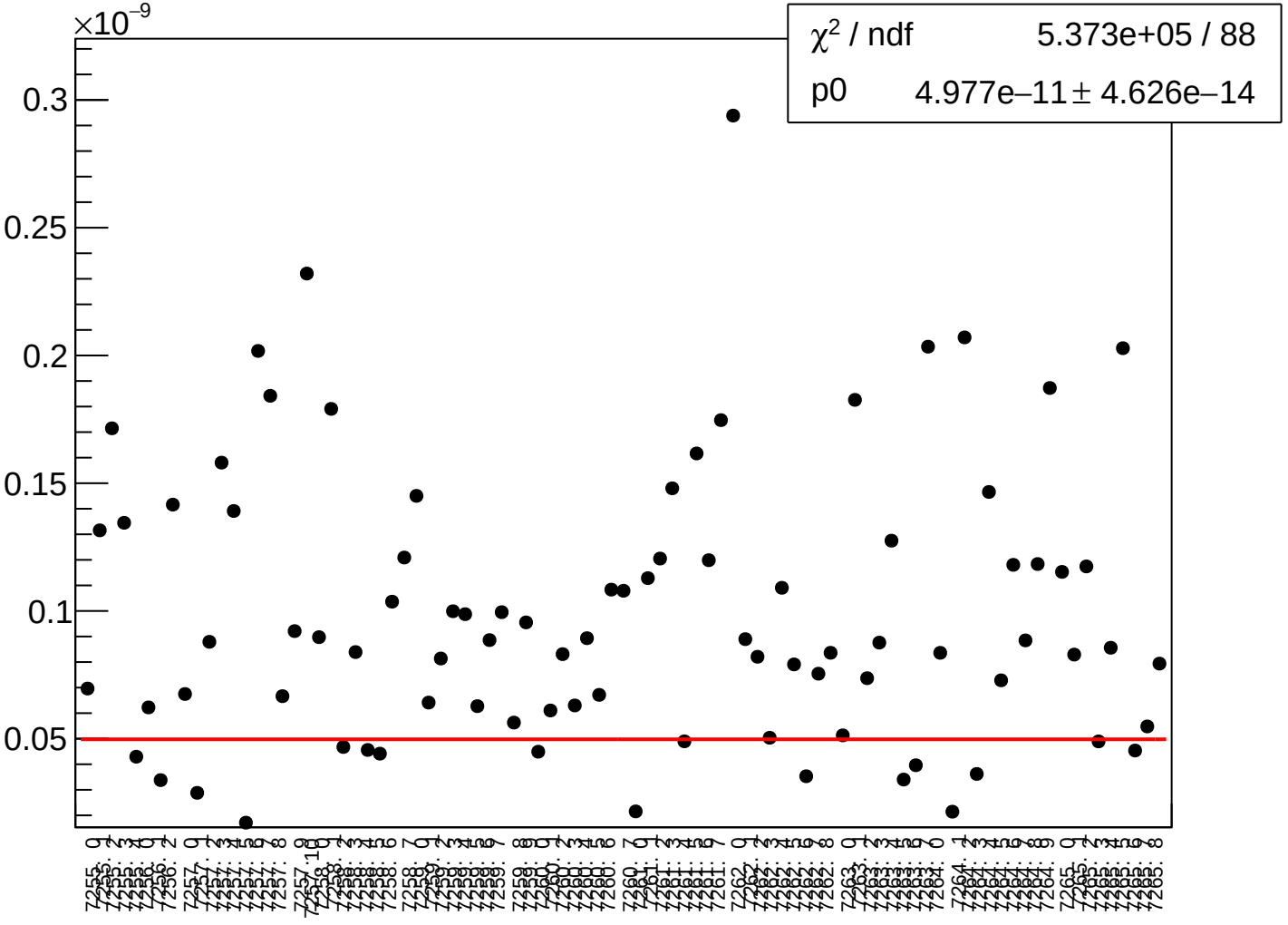

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.043e+05 / 88
p0 354.2 ± 0.2809
650
600
550
500
450
400
350
300
250
200

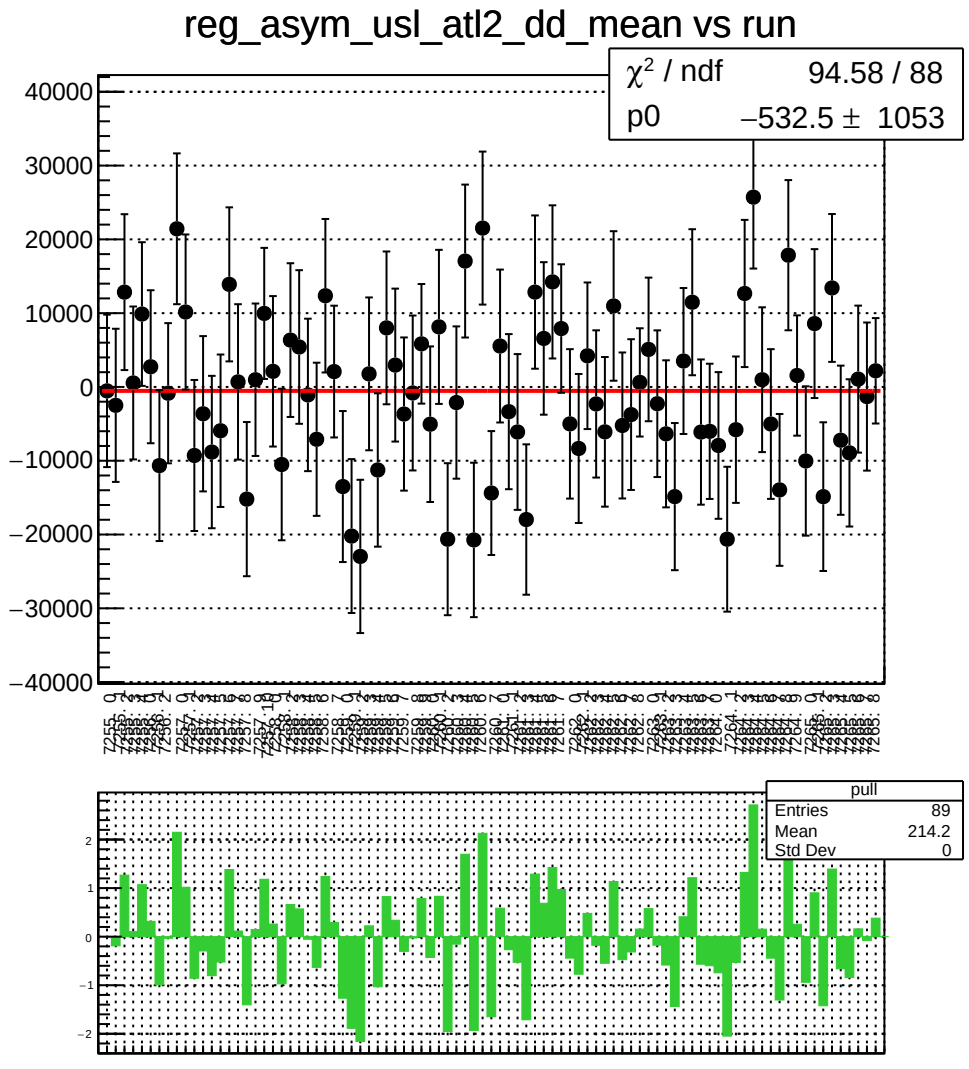

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.37 / 88
p0 −0.4664 ± 0.3972
pull
Entries 89
Mean −1.395e+04
Std Dev 0
pull1D
Entries 89
Mean −0.0001578
Std Dev 1.019

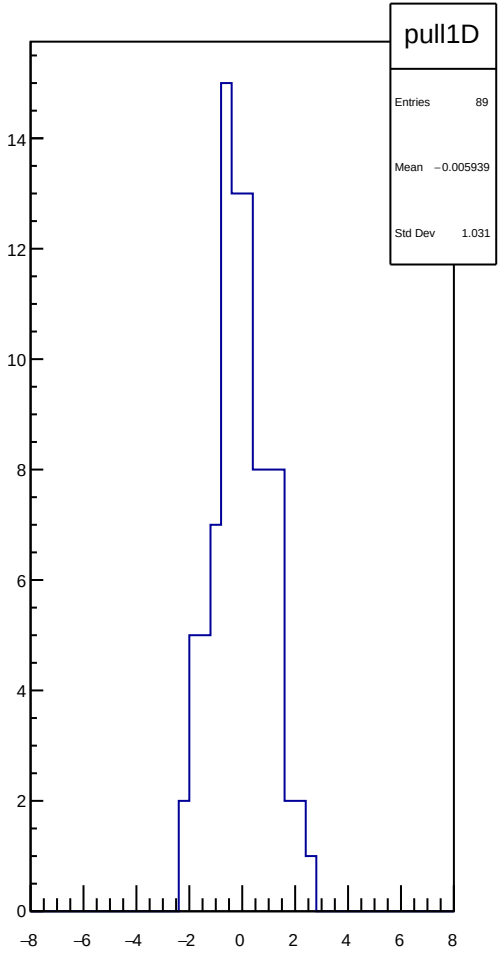

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.043e+05 / 88
p0 354.2 ± 0.2809
650
600
550
500
450
400
350
300
250
200

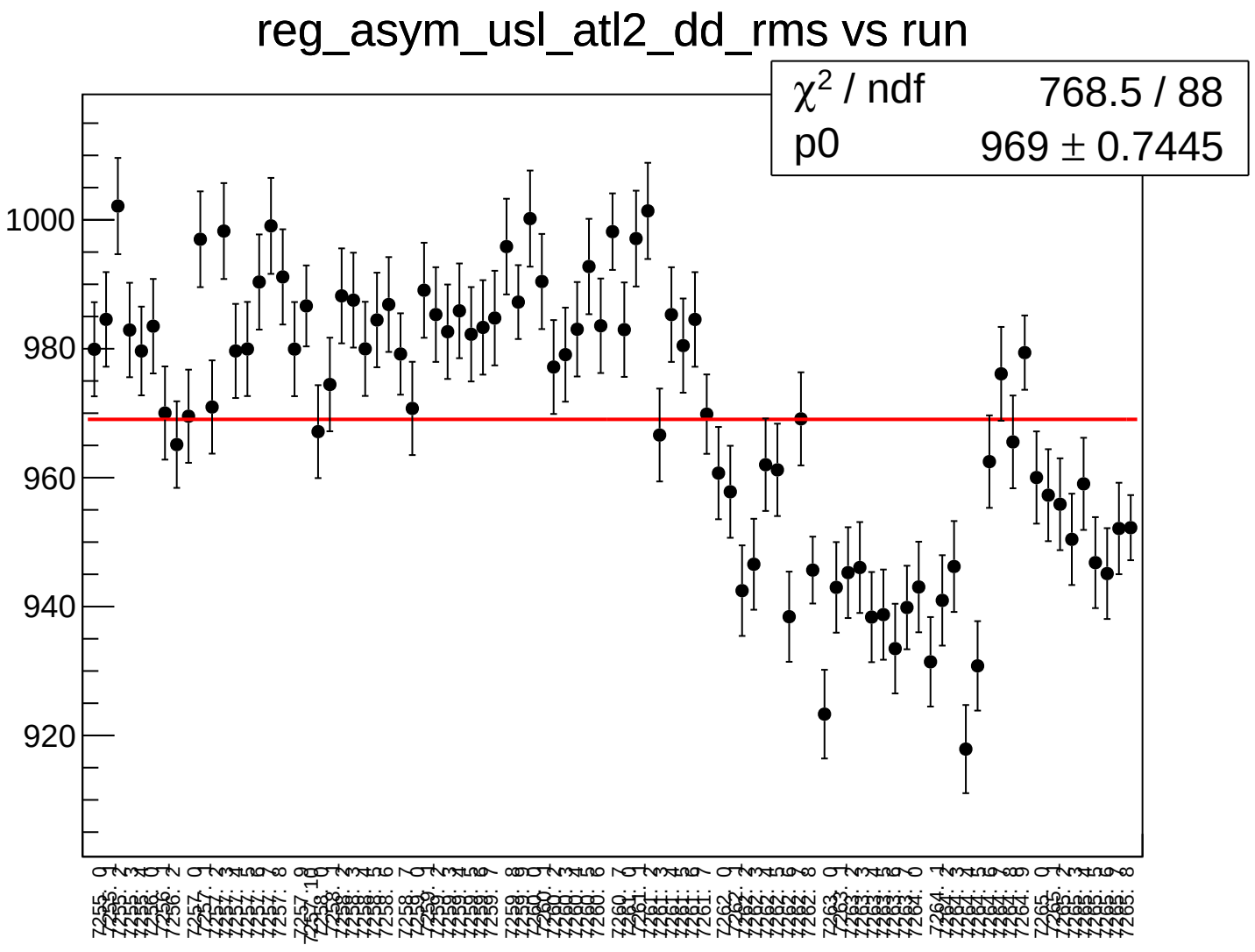

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.59 / 88
p0 −3.84e−14 ± 6.542e−14
pull
Entries 89
Mean −6.085
Std Dev 0

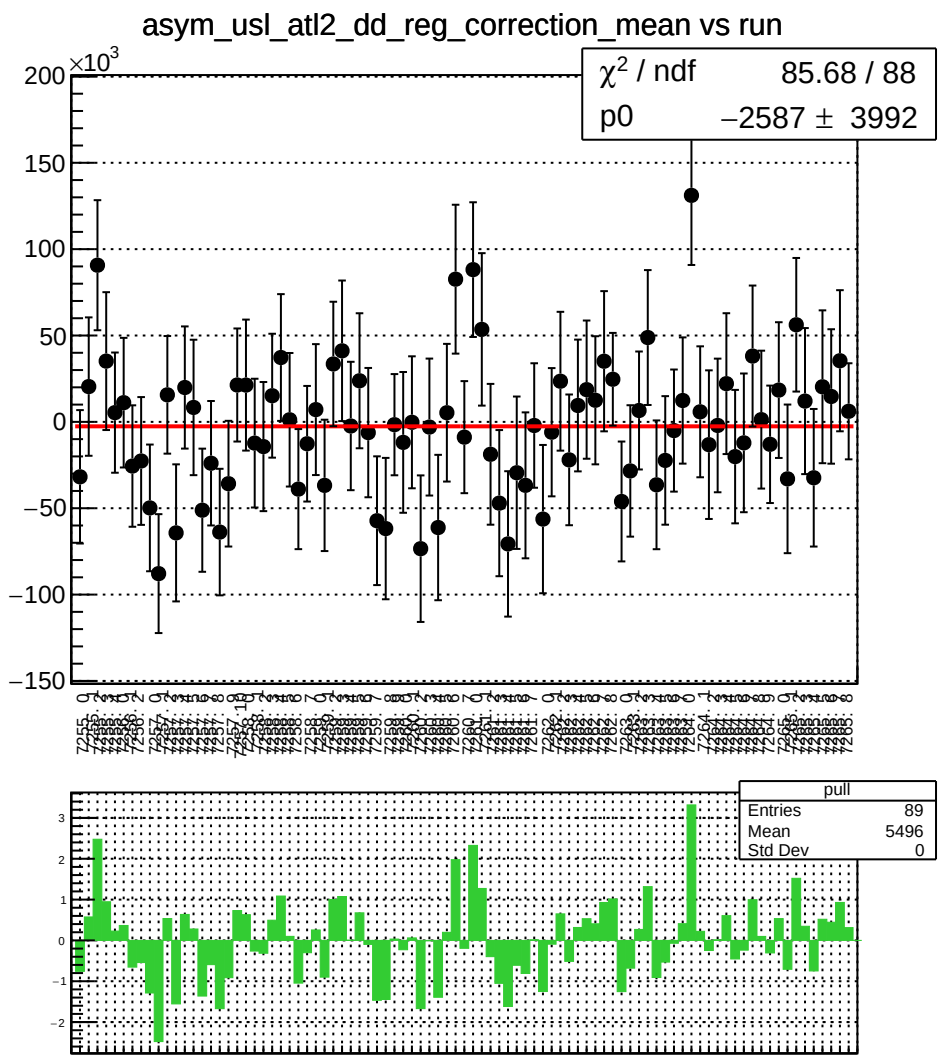

pull1D
Entries 89
Mean 0.0962
Std Dev 0.9287

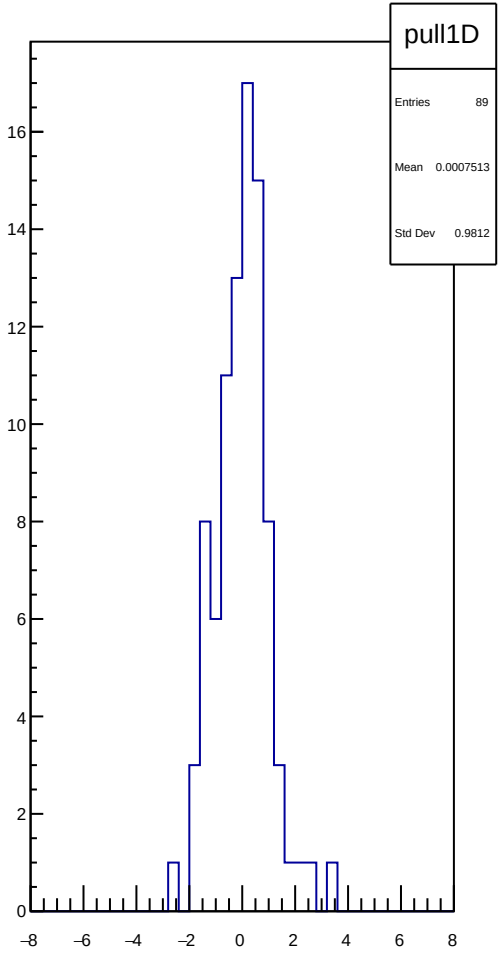

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.373e+05 / 88
p0 4.977e−11 ± 4.626e−14
0.3
0.25
0.2
0.15
0.1
0.05

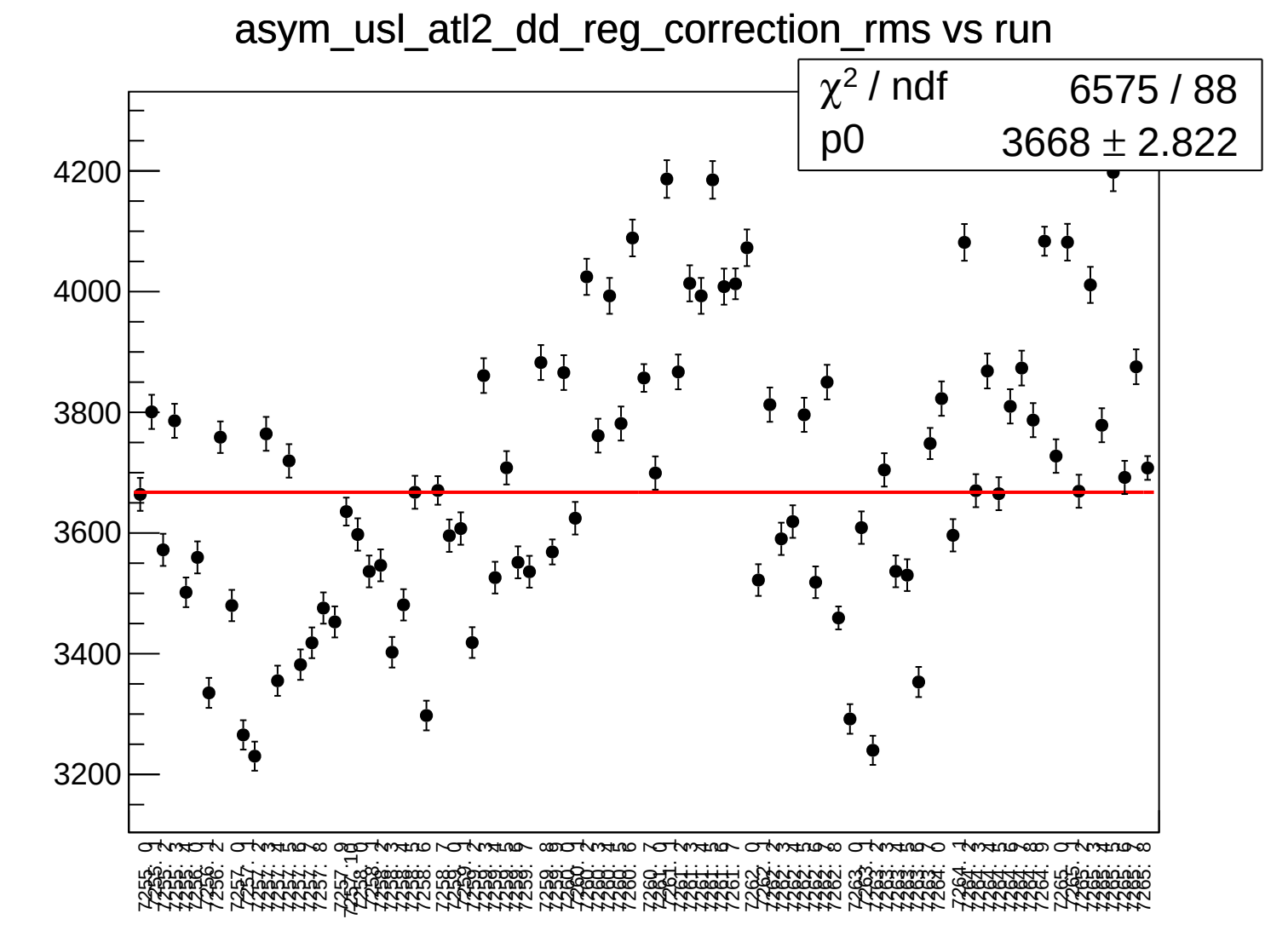

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 94.58 / 88
p0 −532.5 ± 1053
pull
Entries 89
Mean 214.2
Std Dev 0

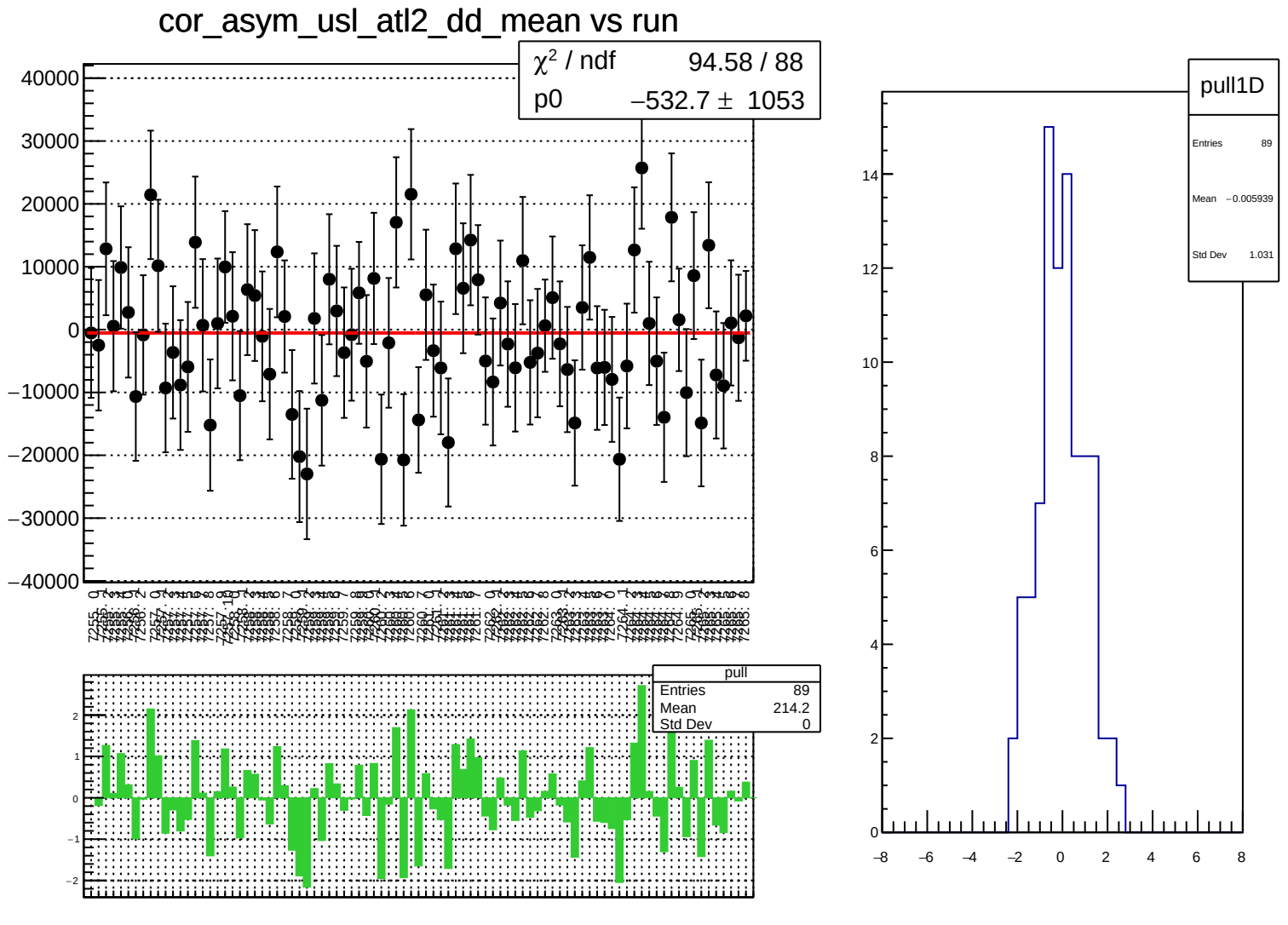

pull1D
Entries 89
Mean −0.005939
Std Dev 1.031

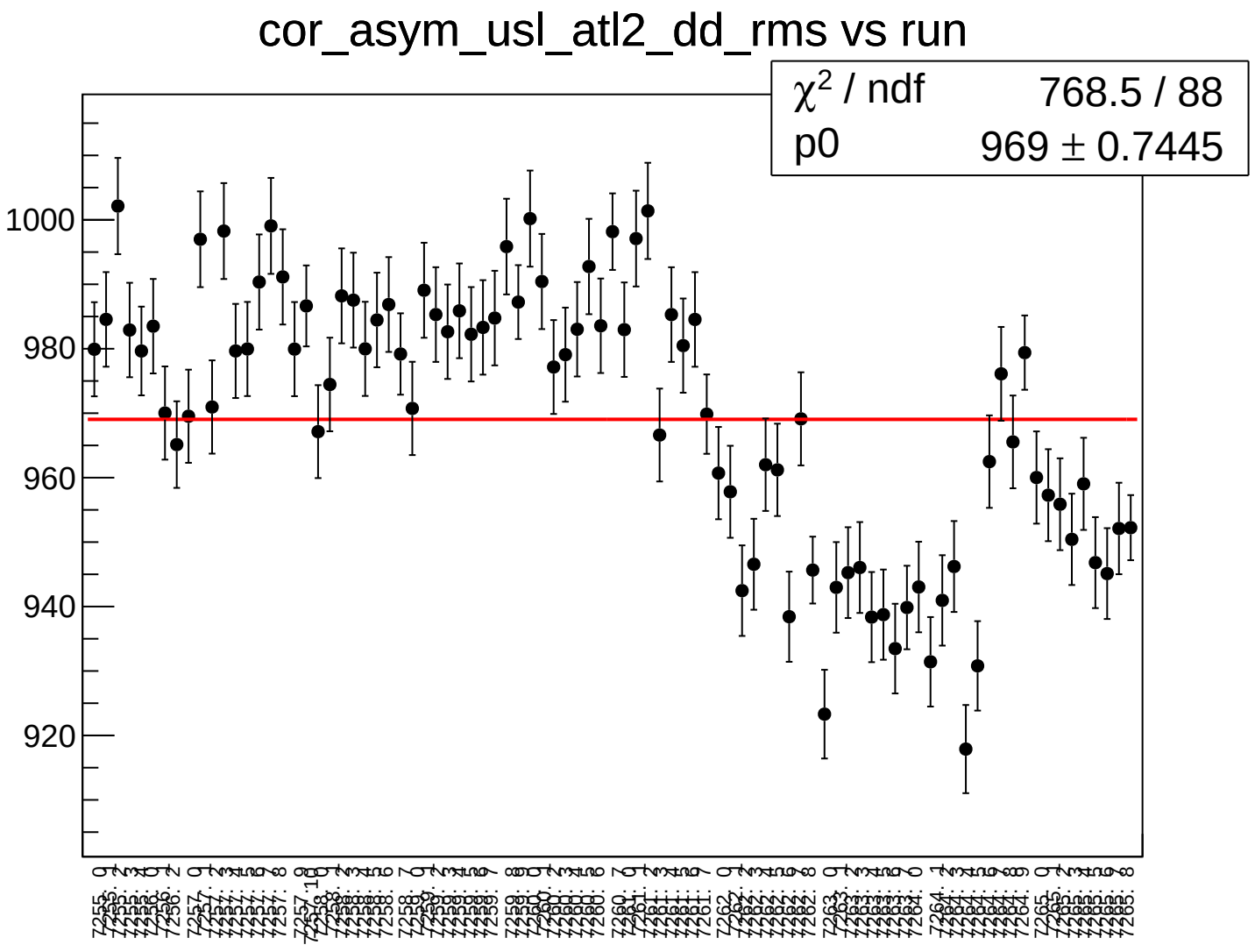

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 768.5 / 88
p0 969 ± 0.7445
1000
980
960
940
920

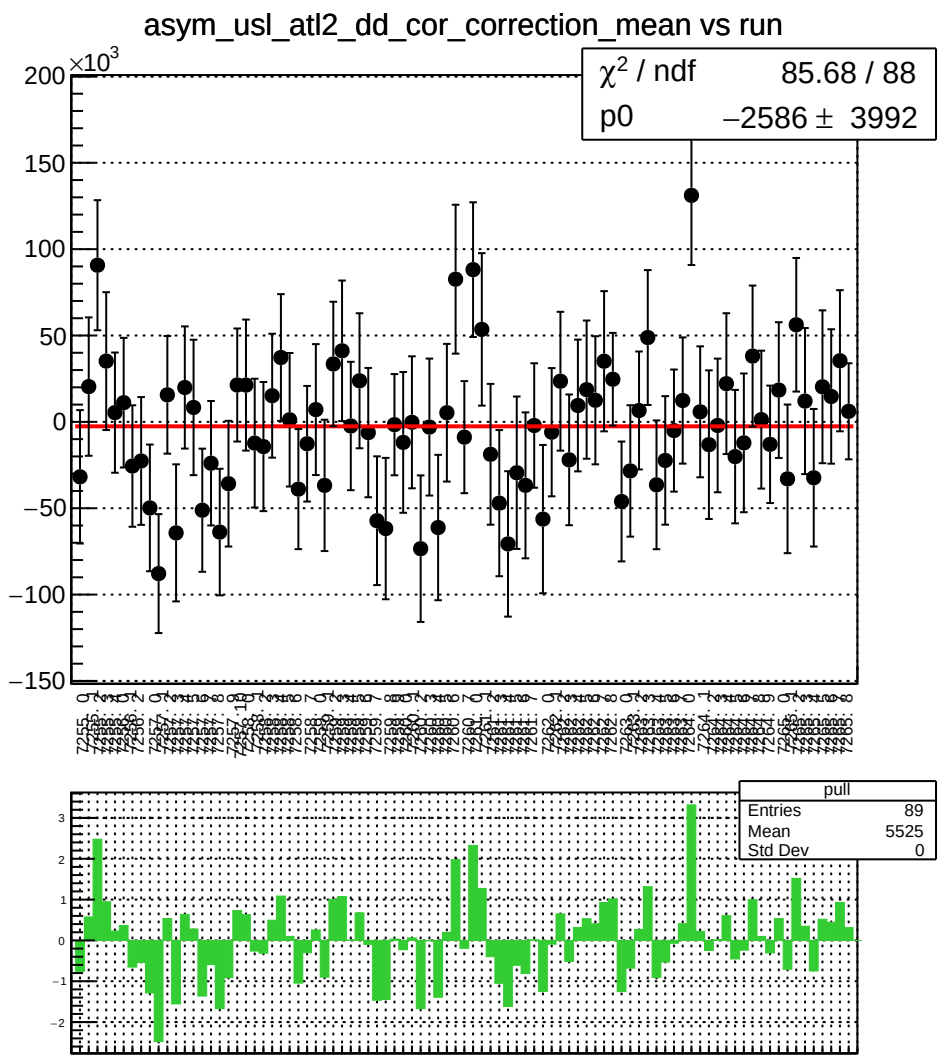

asym_usl_atl2_dd_reg_correction_mean vs run
χ² / ndf 85.68 / 88
p0 −2587 ± 3992
×10³
pull
Entries 89
Mean 5496
Std Dev 0

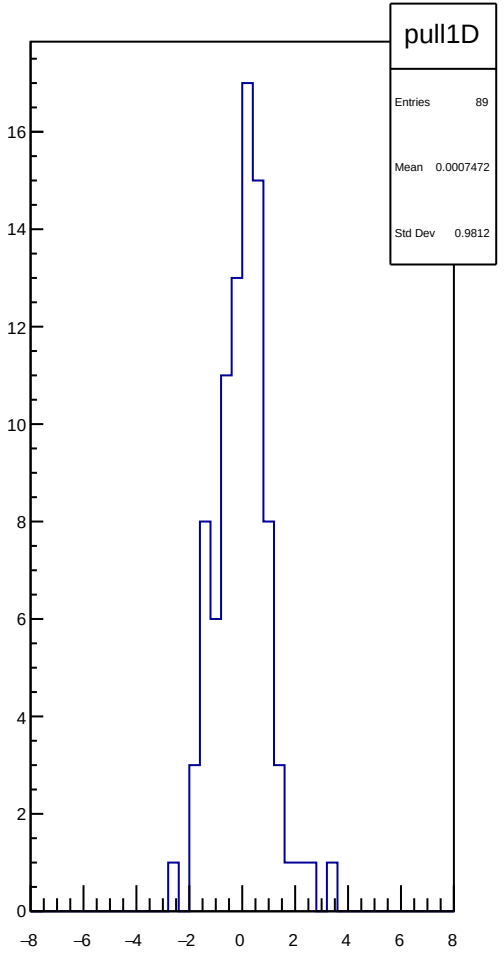

pull1D
Entries 89
Mean 0.0007513
Std Dev 0.9812

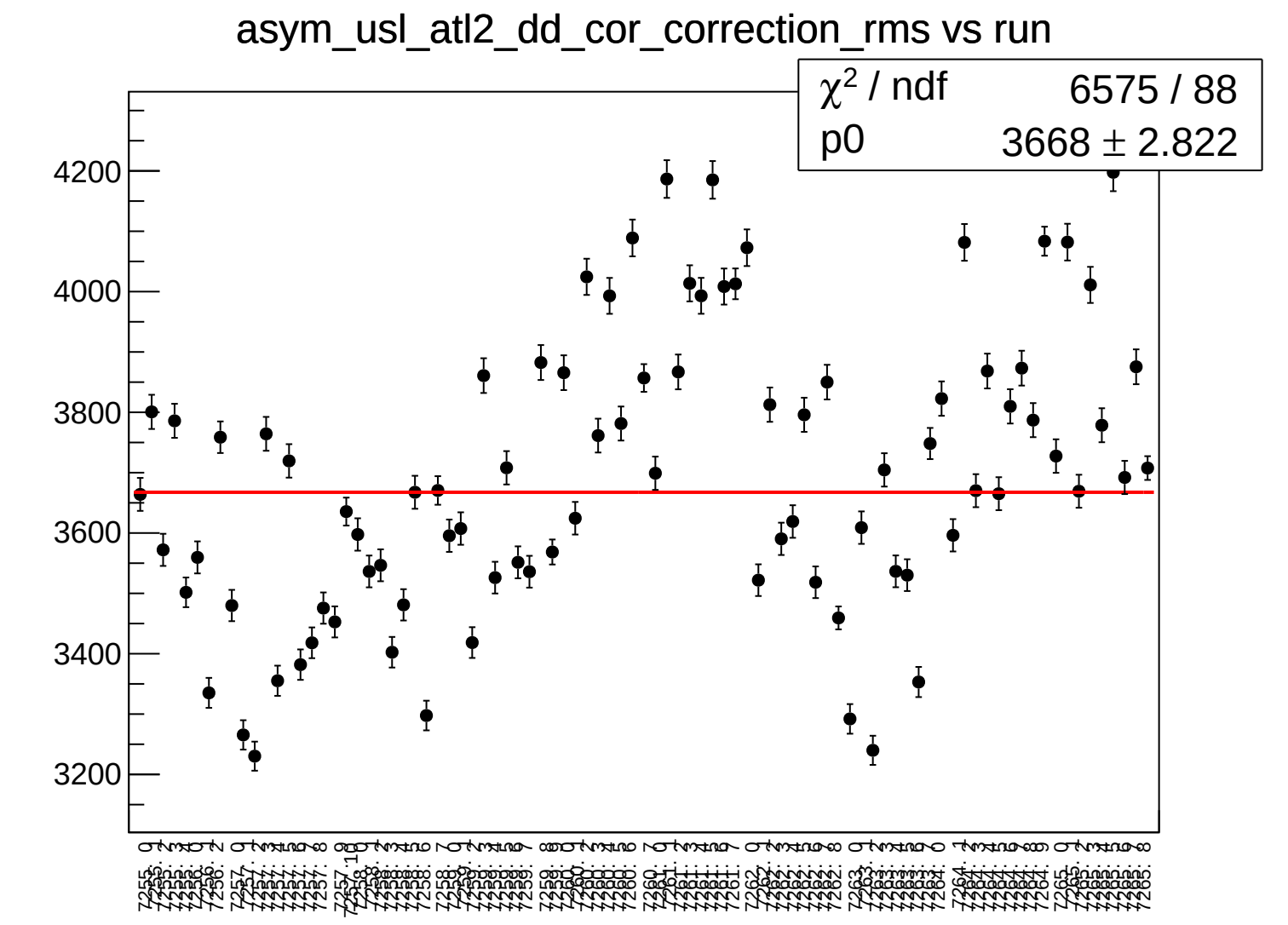

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 6575 / 88
p0 3668 ± 2.822
4200
4000
3800
3600
3400
3200

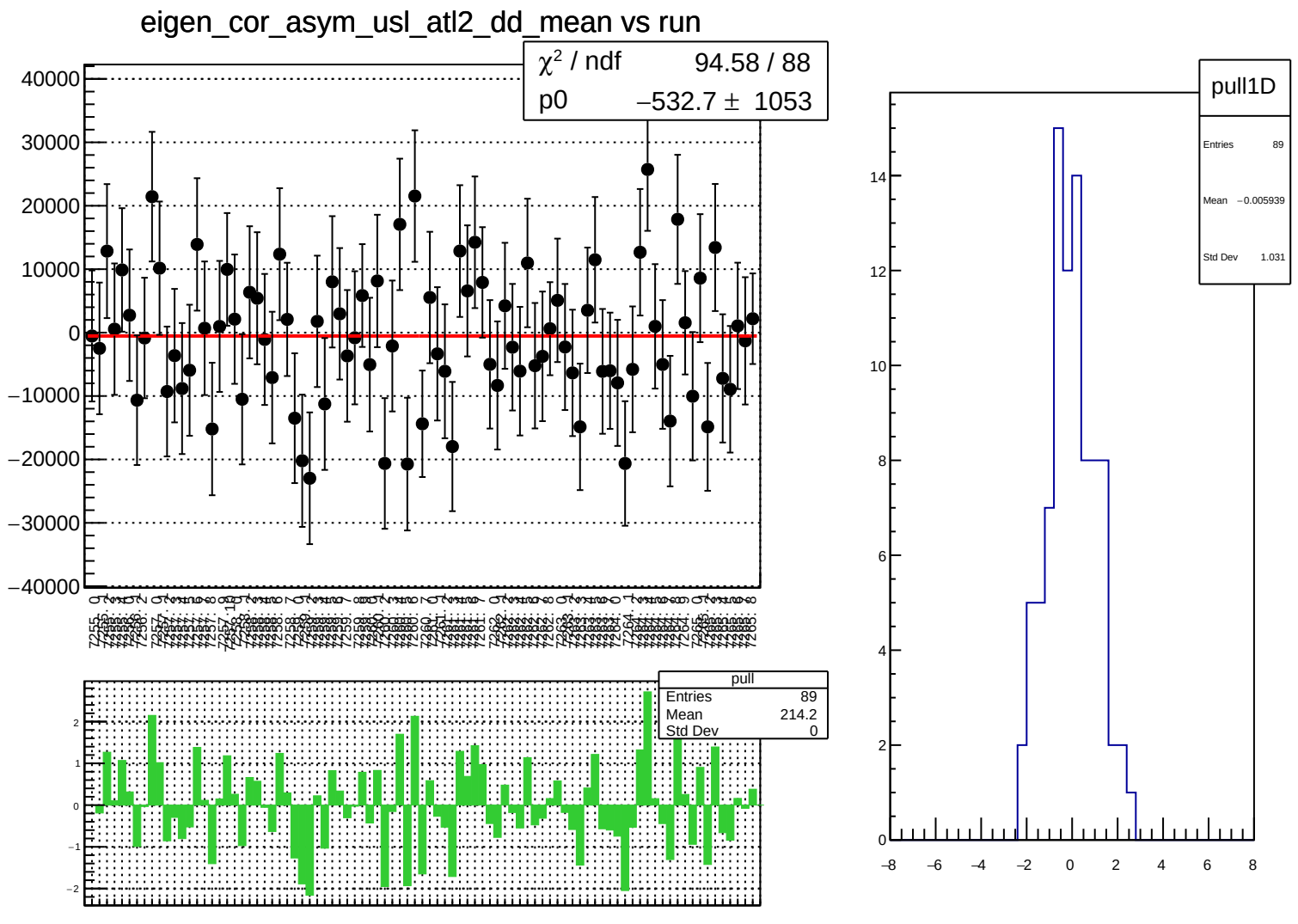

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 94.58 / 88
p0 −532.7 ± 1053
pull
Entries 89
Mean 214.2
Std Dev 0
pull1D
Entries 89
Mean −0.005939
Std Dev 1.031

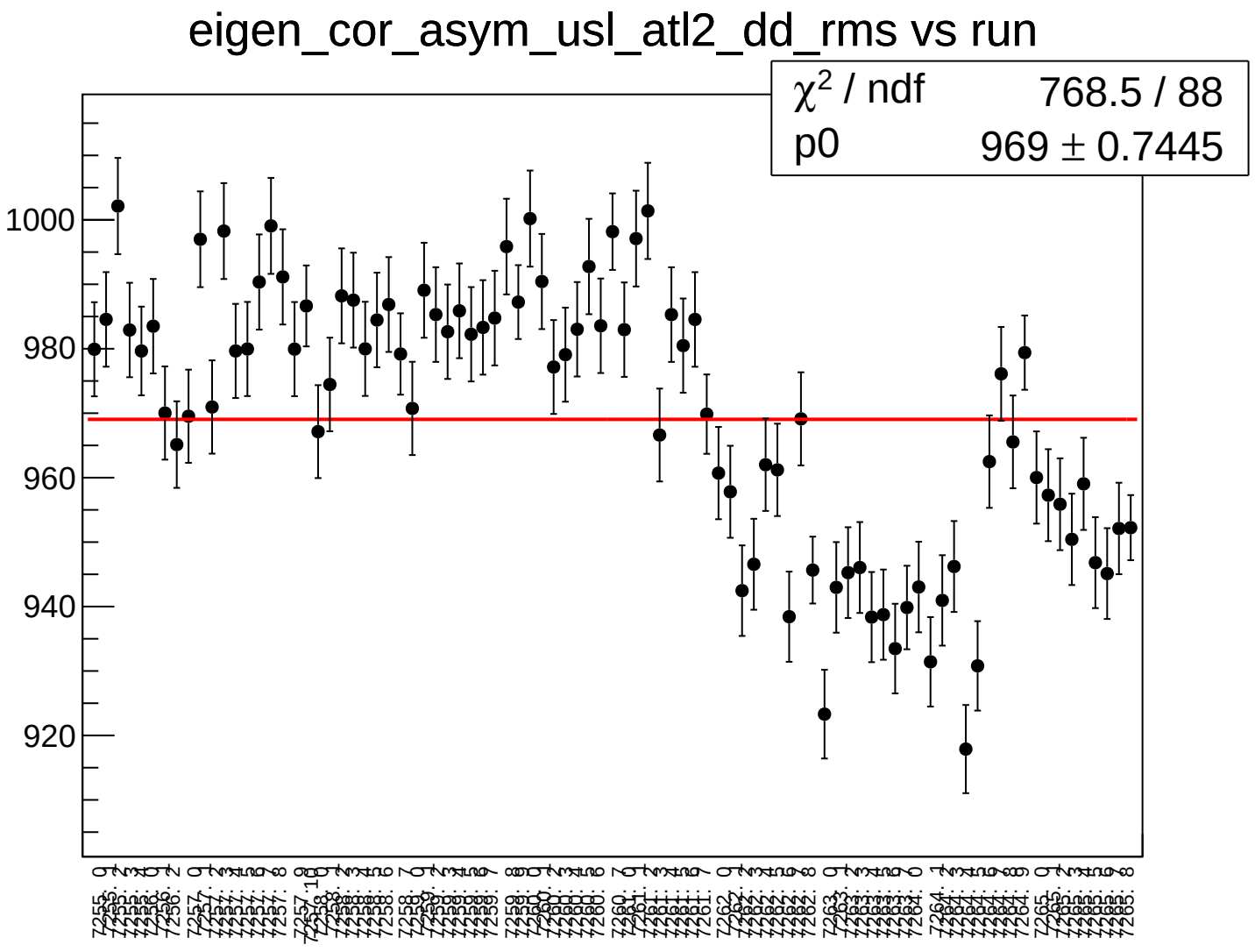

cor_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 768.5 / 88
p0 969 ± 0.7445
1000
980
960
940
920

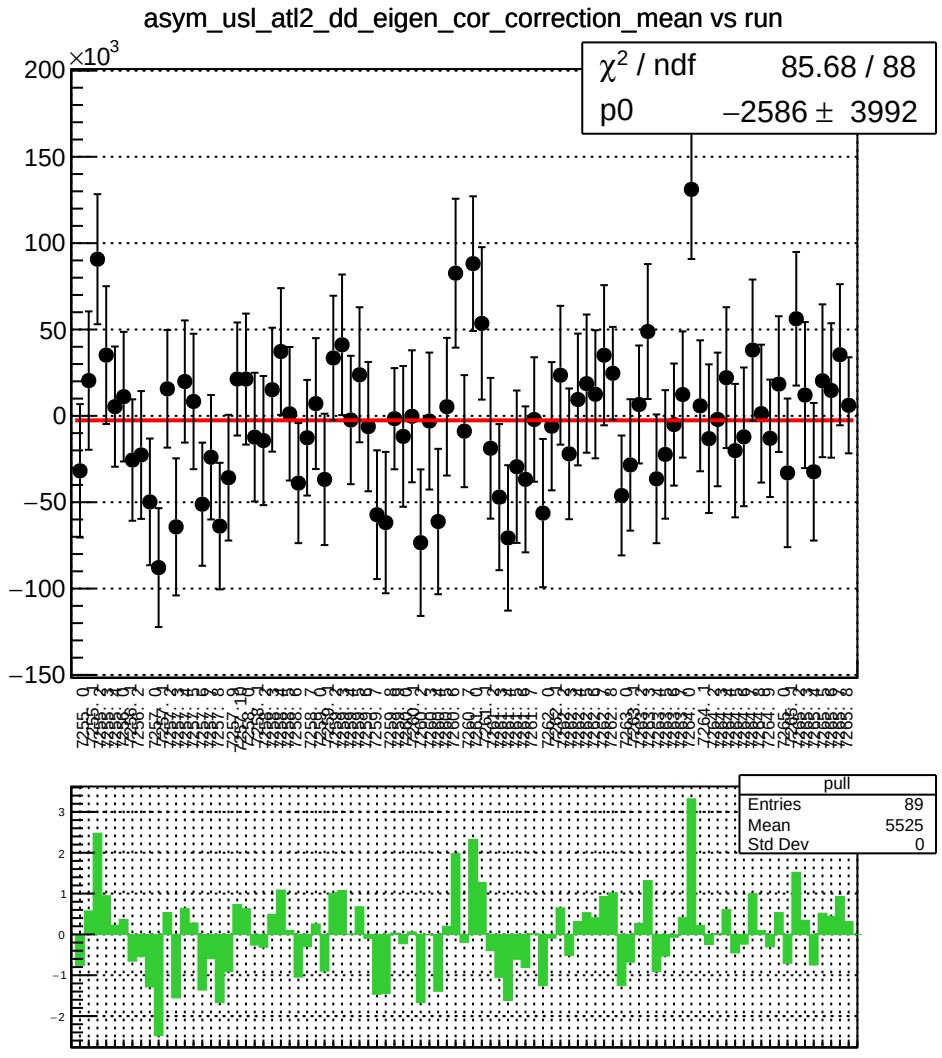

asym_usl_atl2_dd_cor_correction_mean vs run
χ² / ndf 85.68 / 88
p0 −2586 ± 3992
×10³
pull
Entries 89
Mean 5525
Std Dev 0

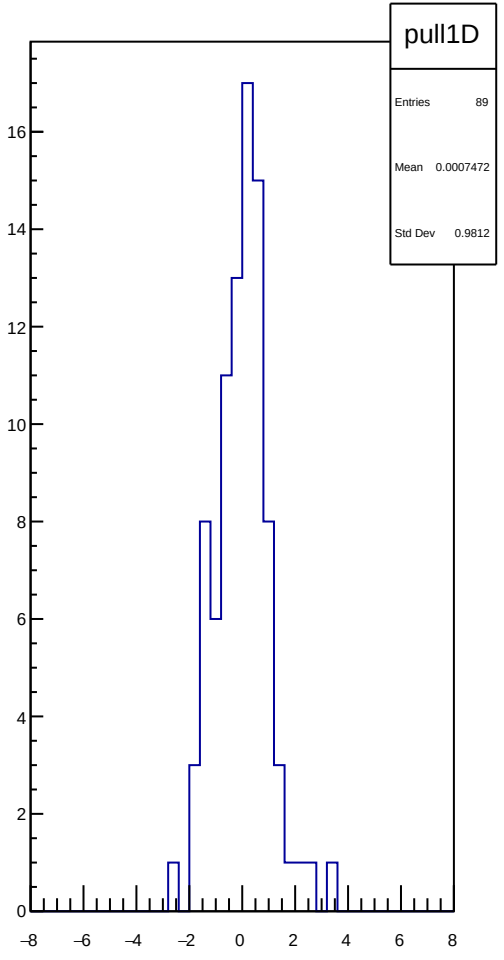

pull1D
Entries 89
Mean 0.0007472
Std Dev 0.9812

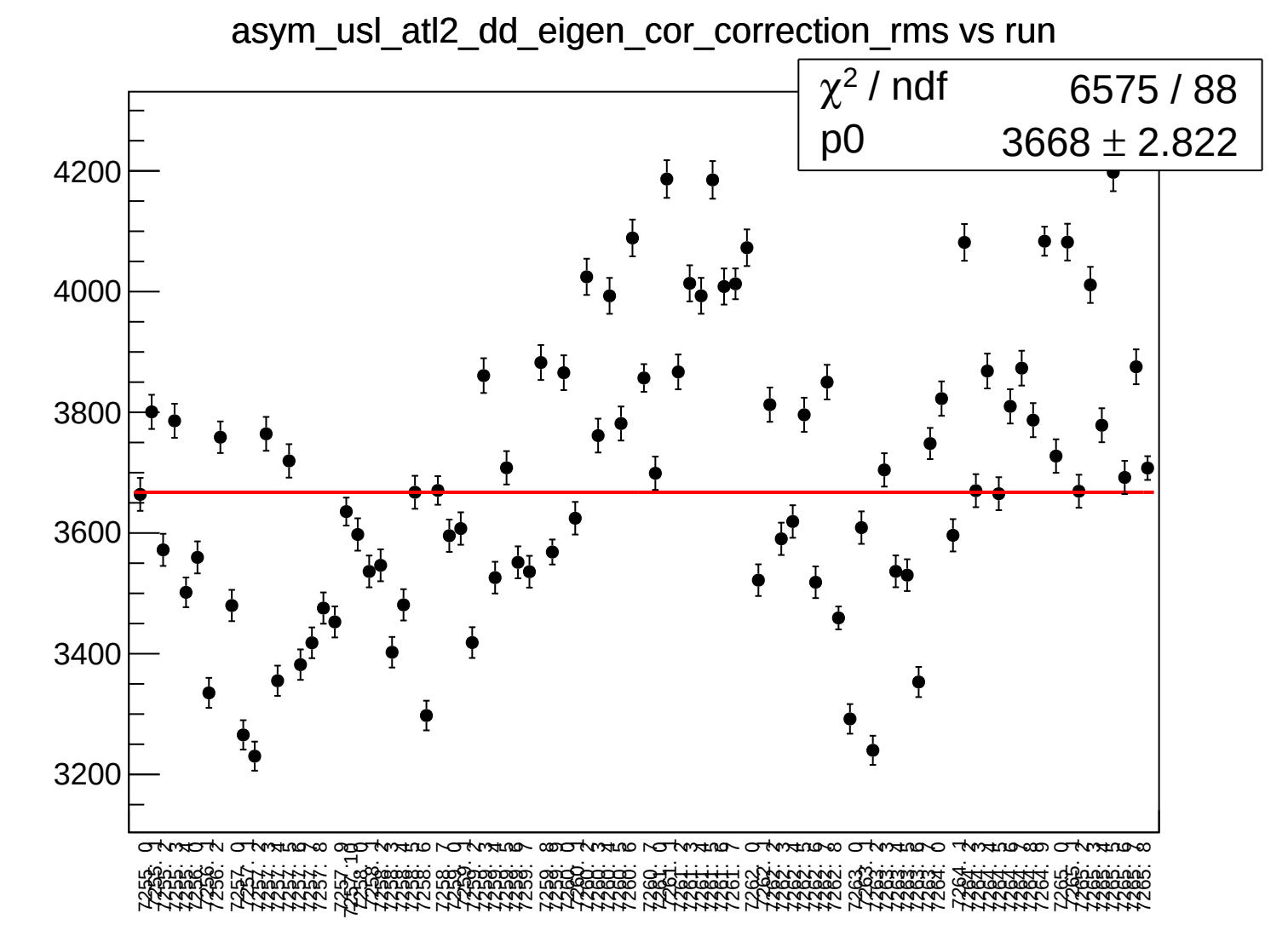

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 6575 / 88
p0 3668 ± 2.822
4200
4000
3800
3600
3400
3200

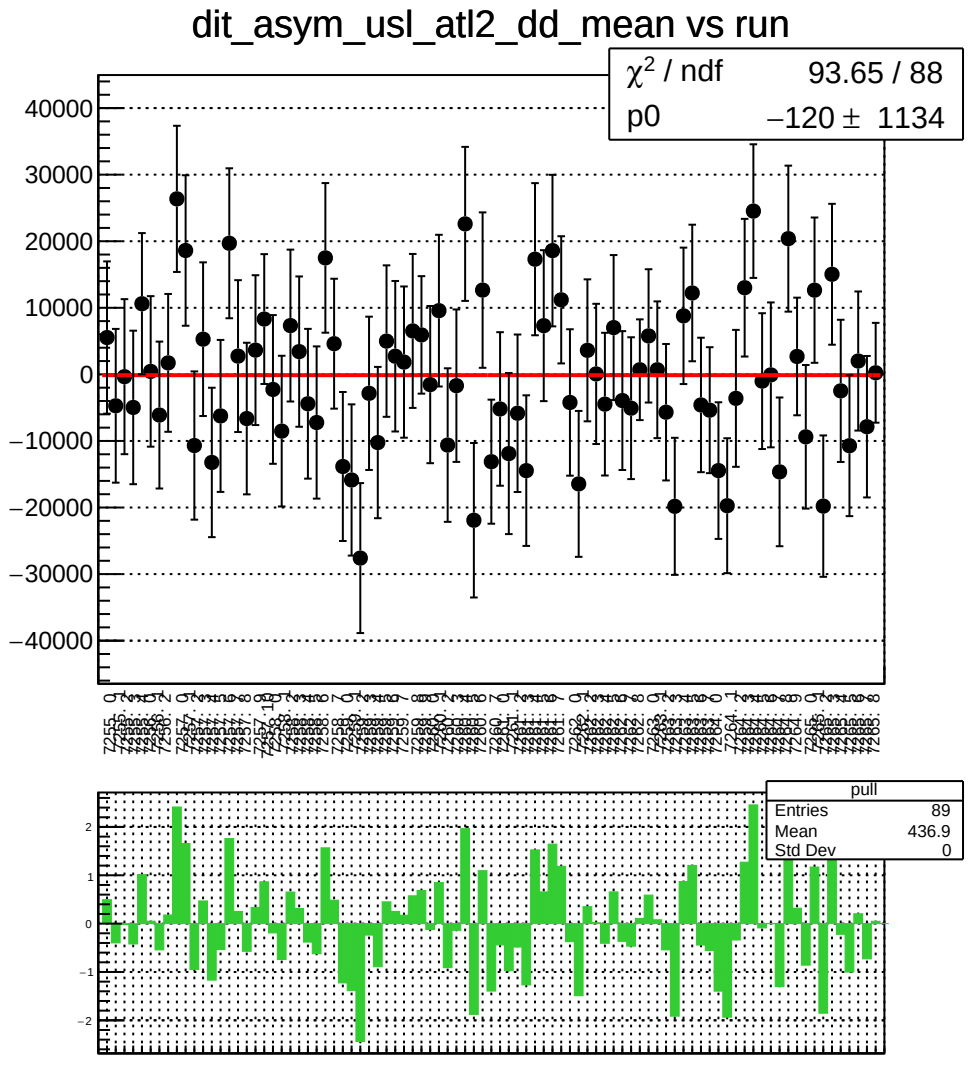

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 94.58 / 88
p0 −532.7 ± 1053
pull
Entries 89
Mean 214.2
Std Dev 0
pull1D
Entries 89
Mean −0.005939
Std Dev 1.031

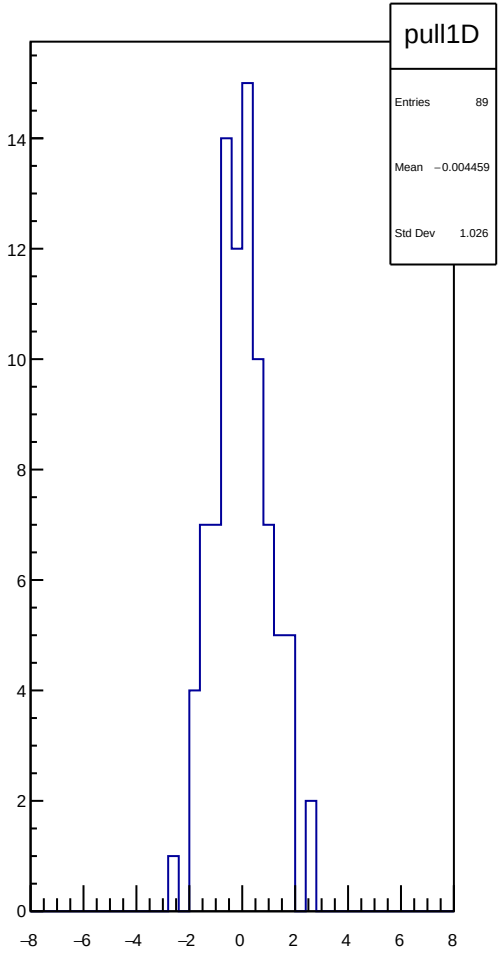

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 768.5 / 88
p0 969 ± 0.7445
1000
980
960
940
920

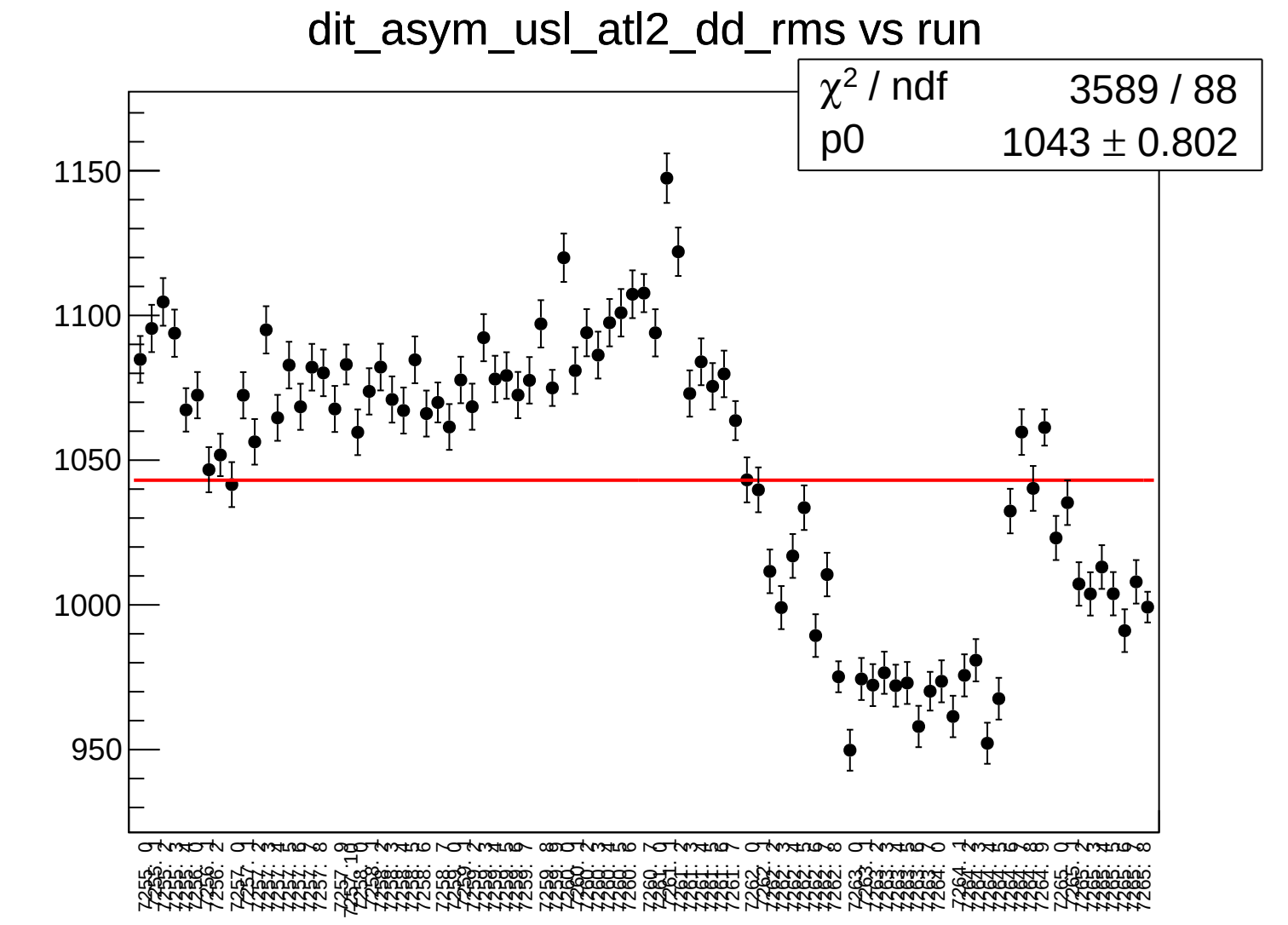

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.68 / 88
p0 −2586 ± 3992
pull
Entries 89
Mean 5525
Std Dev 0

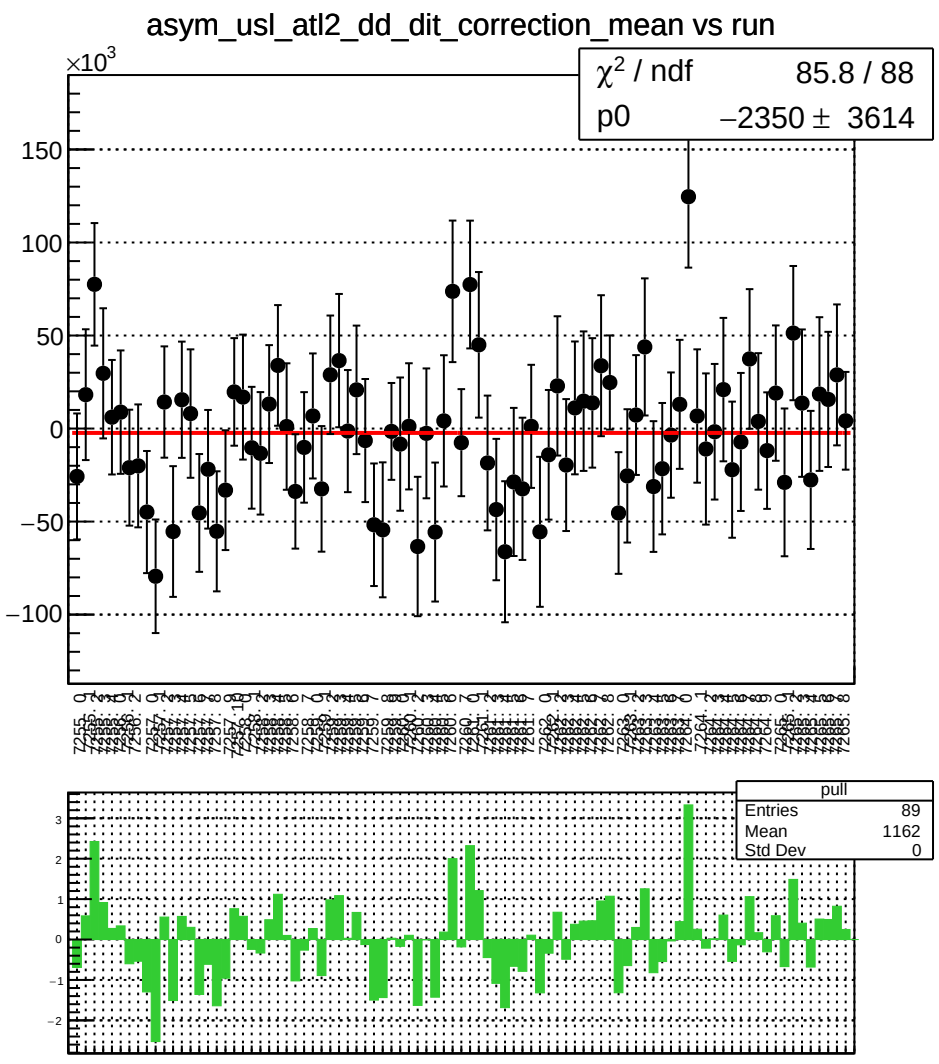

pull1D
Entries 89
Mean 0.0007472
Std Dev 0.9812

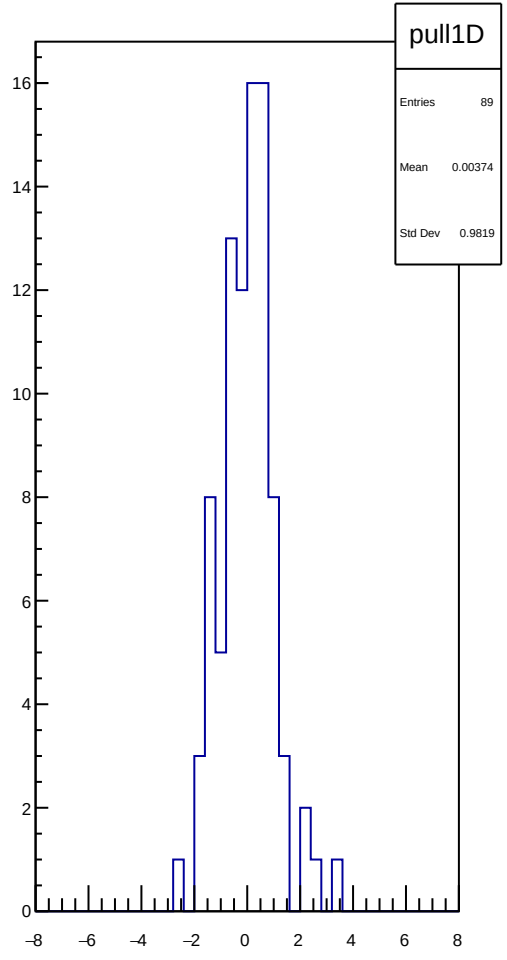

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6575 / 88
p0 3668 ± 2.822
4200
4000
3800
3600
3400
3200

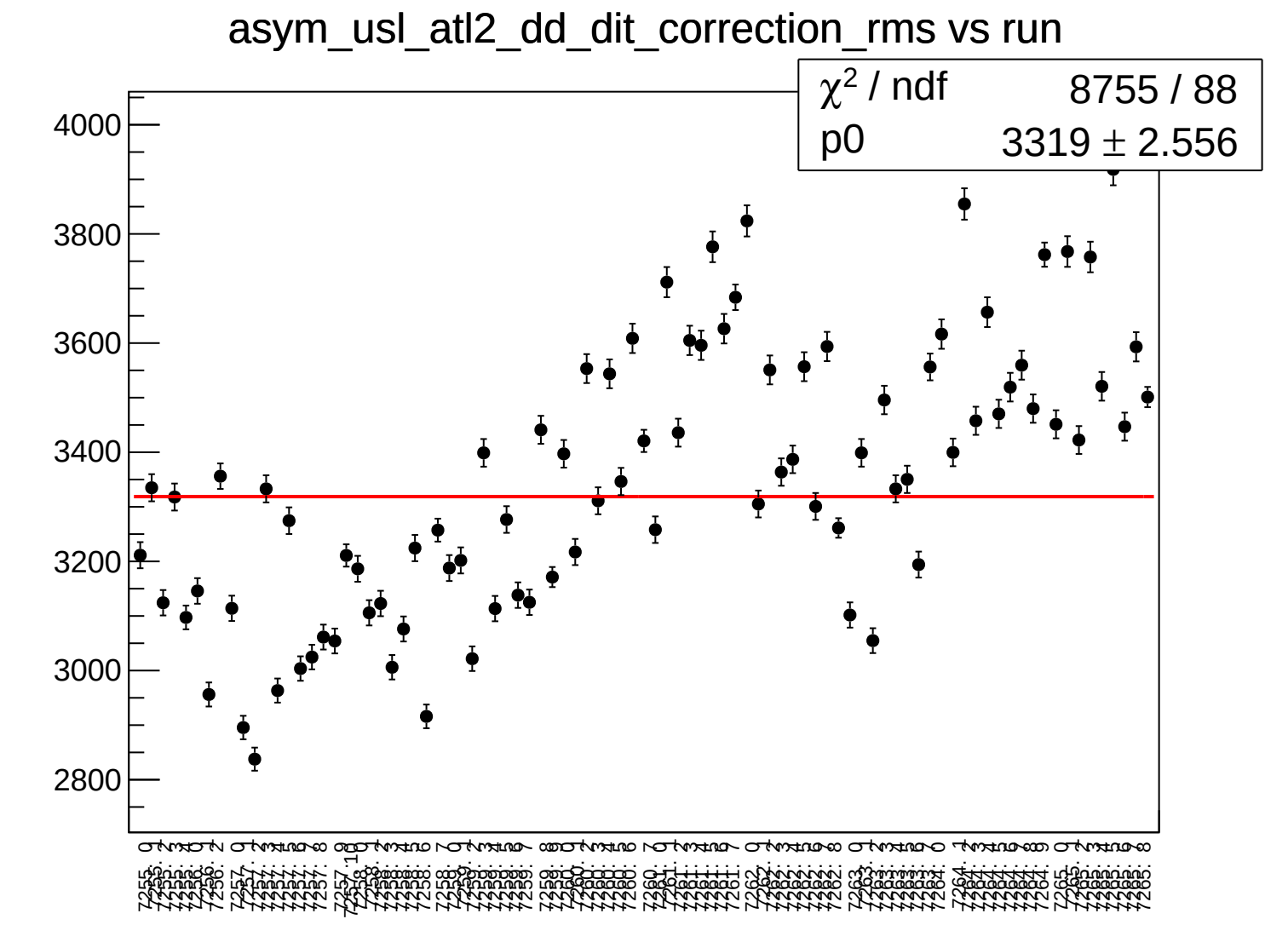

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 93.65 / 88
p0 −120 ± 1134
pull
Entries 89
Mean 436.9
Std Dev 0

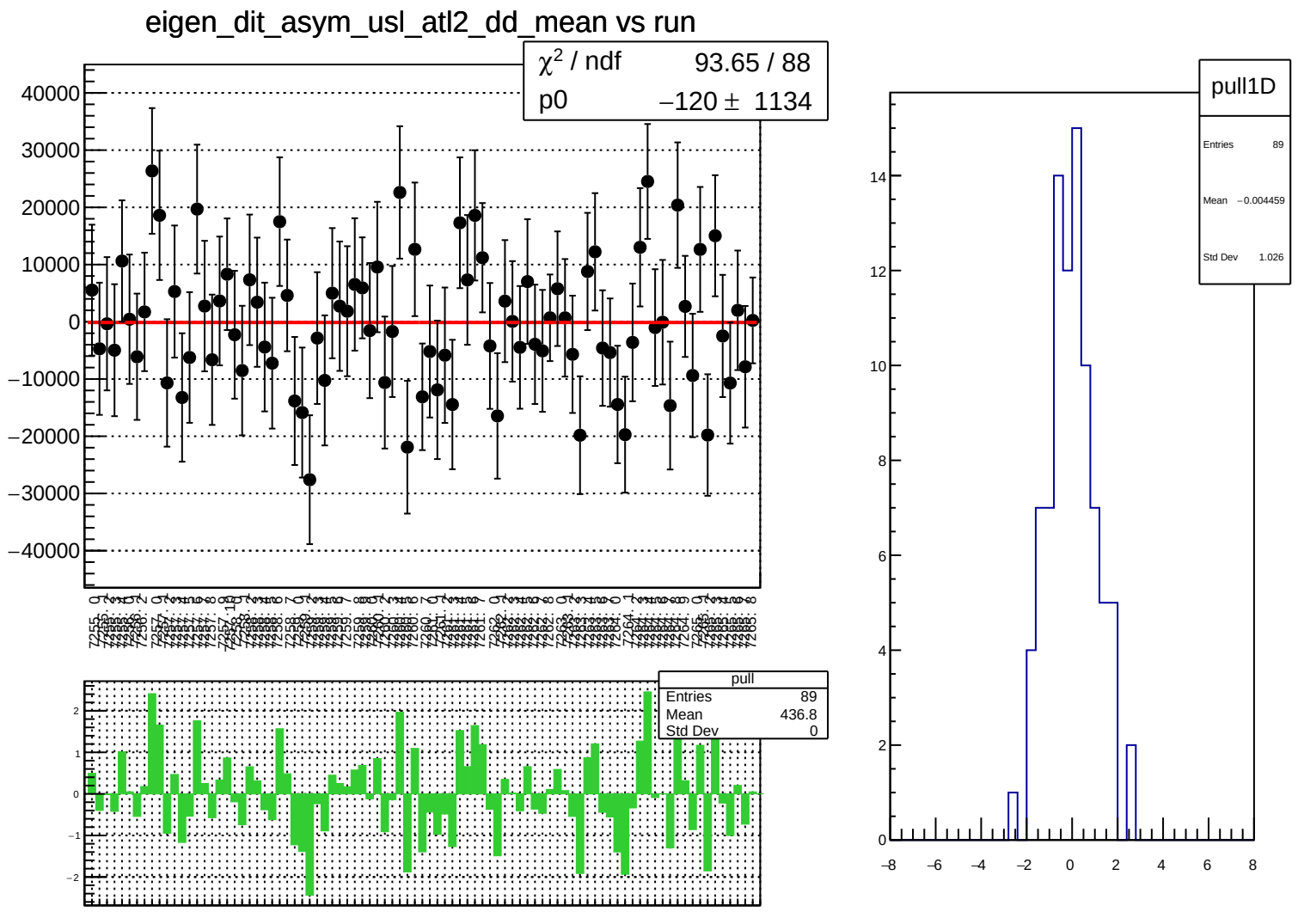

pull1D
Entries 89
Mean −0.004459
Std Dev 1.026

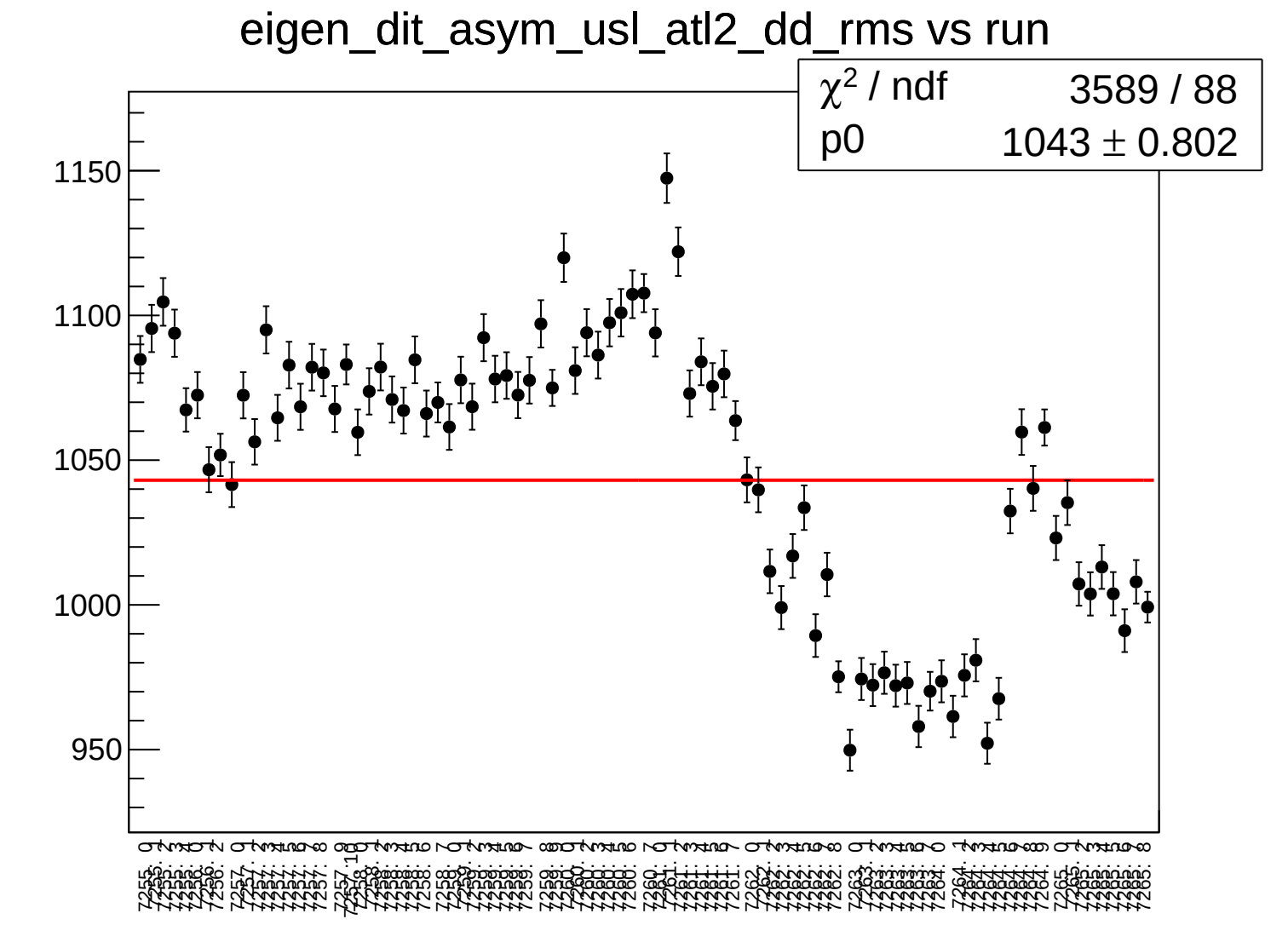

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 3589 / 88
p0 1043 ± 0.802
1150
1100
1050
1000
950

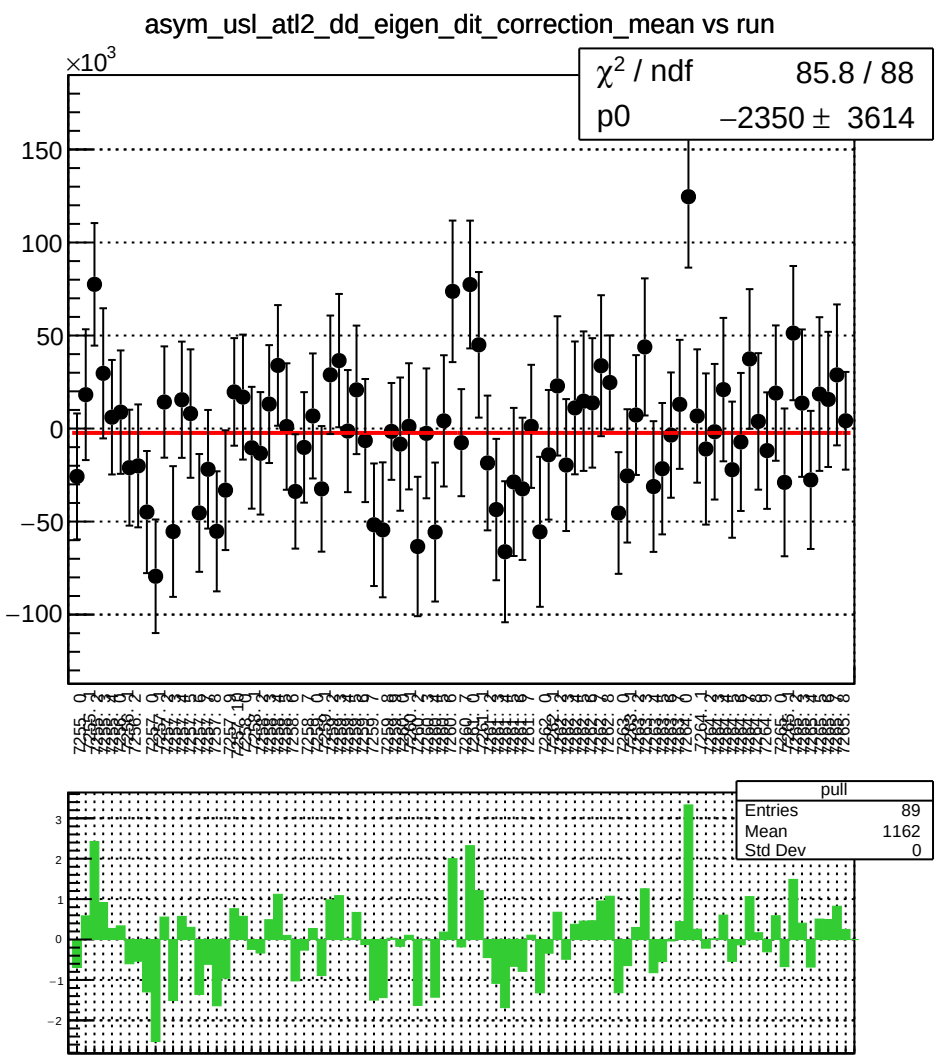

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 85.8 / 88
p0 −2350 ± 3614
150
100
50
0
−50
−100
pull
Entries 89
Mean 1162
Std Dev 0
3
2
1
0
−1
−2

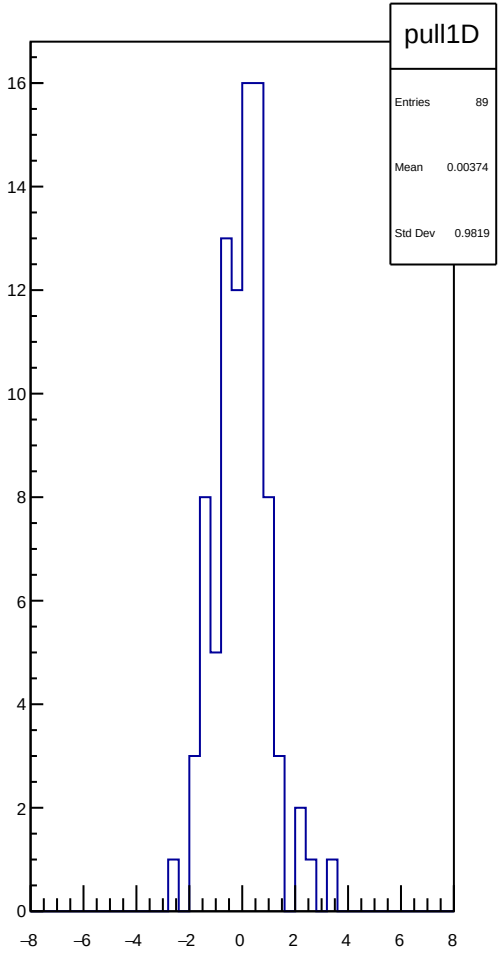

pull1D
Entries 89
Mean 0.00374
Std Dev 0.9819
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

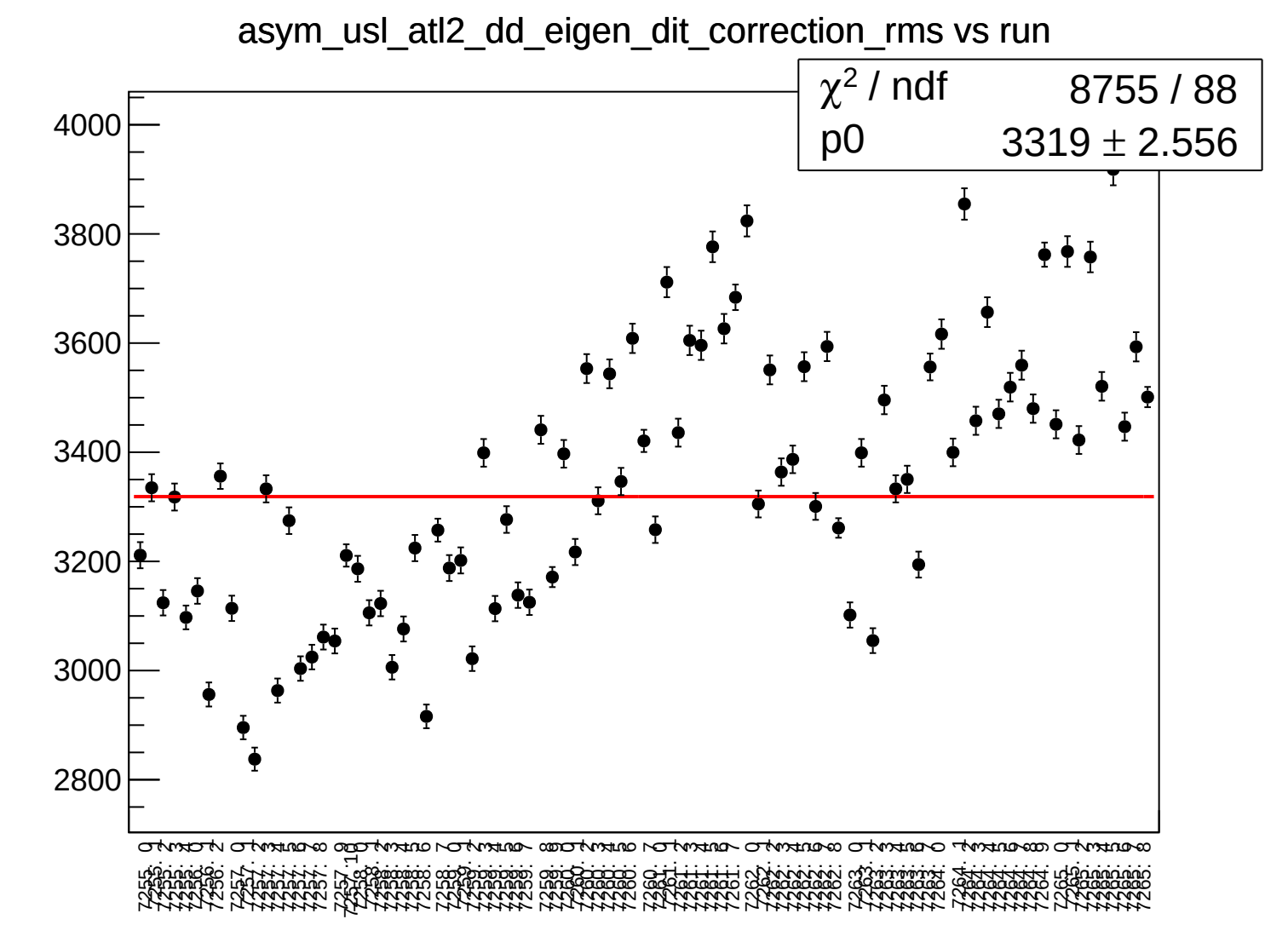

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 8755 / 88
p0 3319 ± 2.556
4000
3800
3600
3400
3200
3000
2800

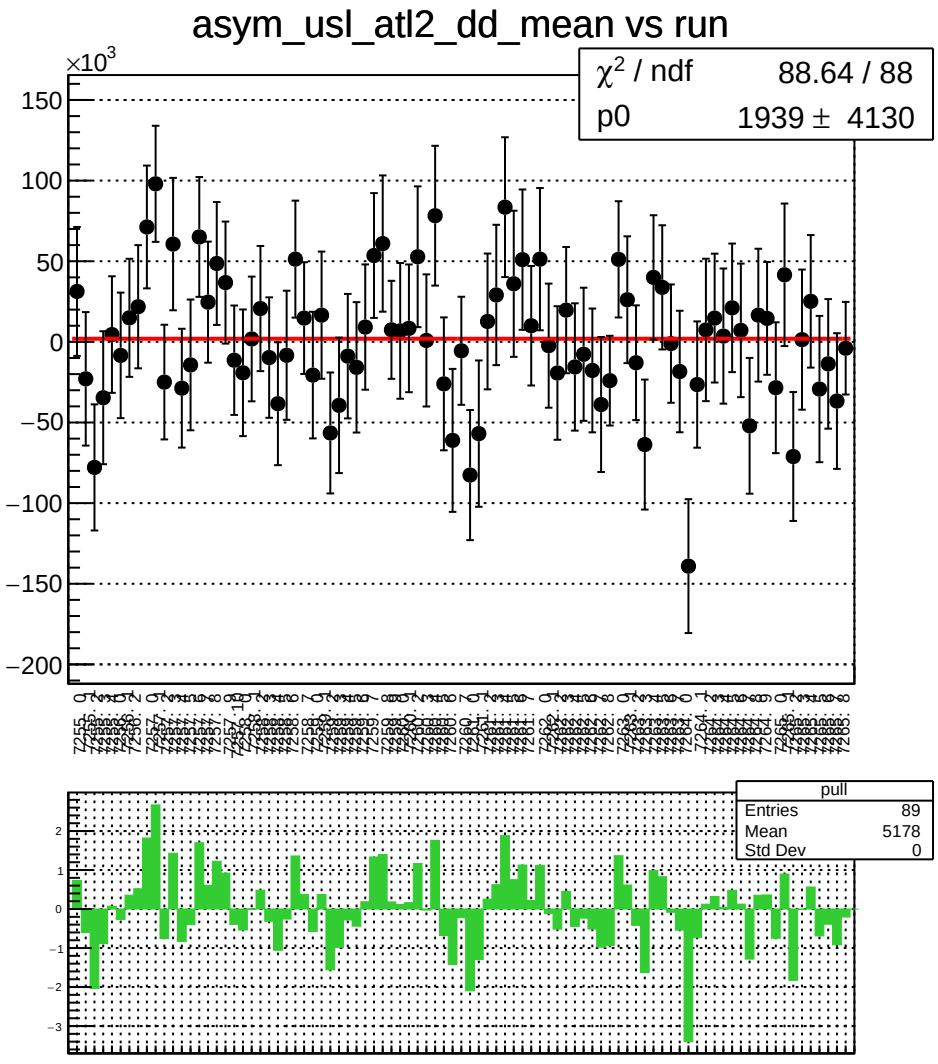

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 93.65 / 88
p0 −120 ± 1134
pull
Entries 89
Mean 436.8
Std Dev 0
pull1D
Entries 89
Mean −0.004459
Std Dev 1.026

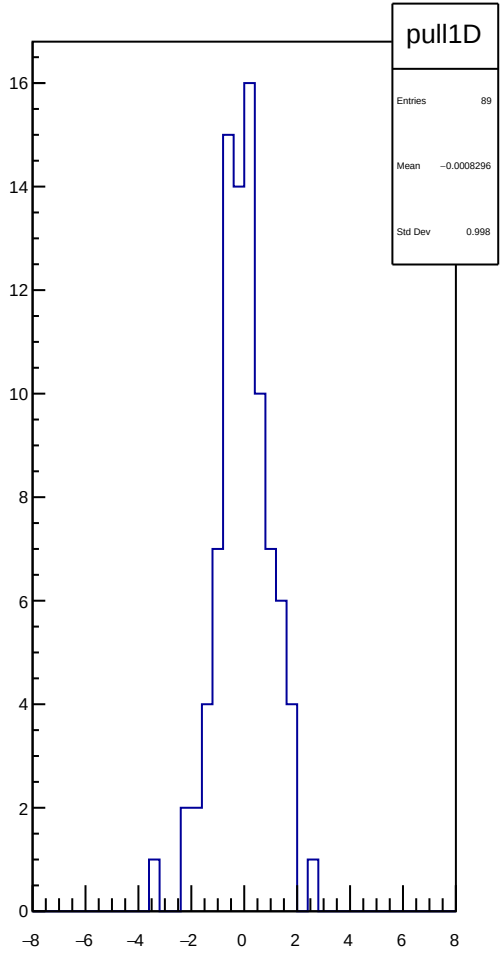

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 3589 / 88
p0 1043 ± 0.802
1150
1100
1050
1000
950

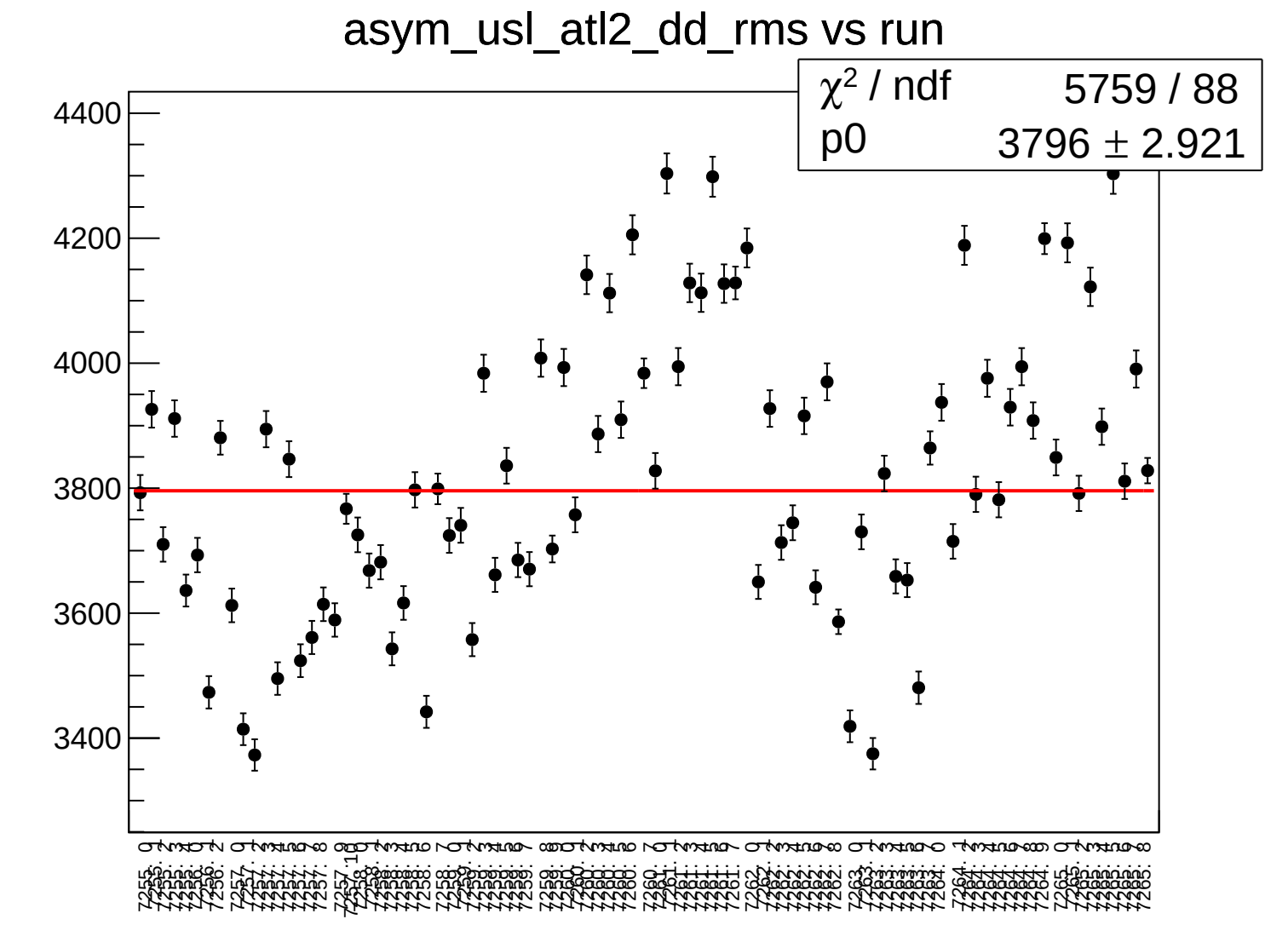

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 85.8 / 88
p0 −2350 ± 3614
150
100
50
0
−50
−100
pull
Entries 89
Mean 1162
Std Dev 0
3
2
1
0
−1
−2

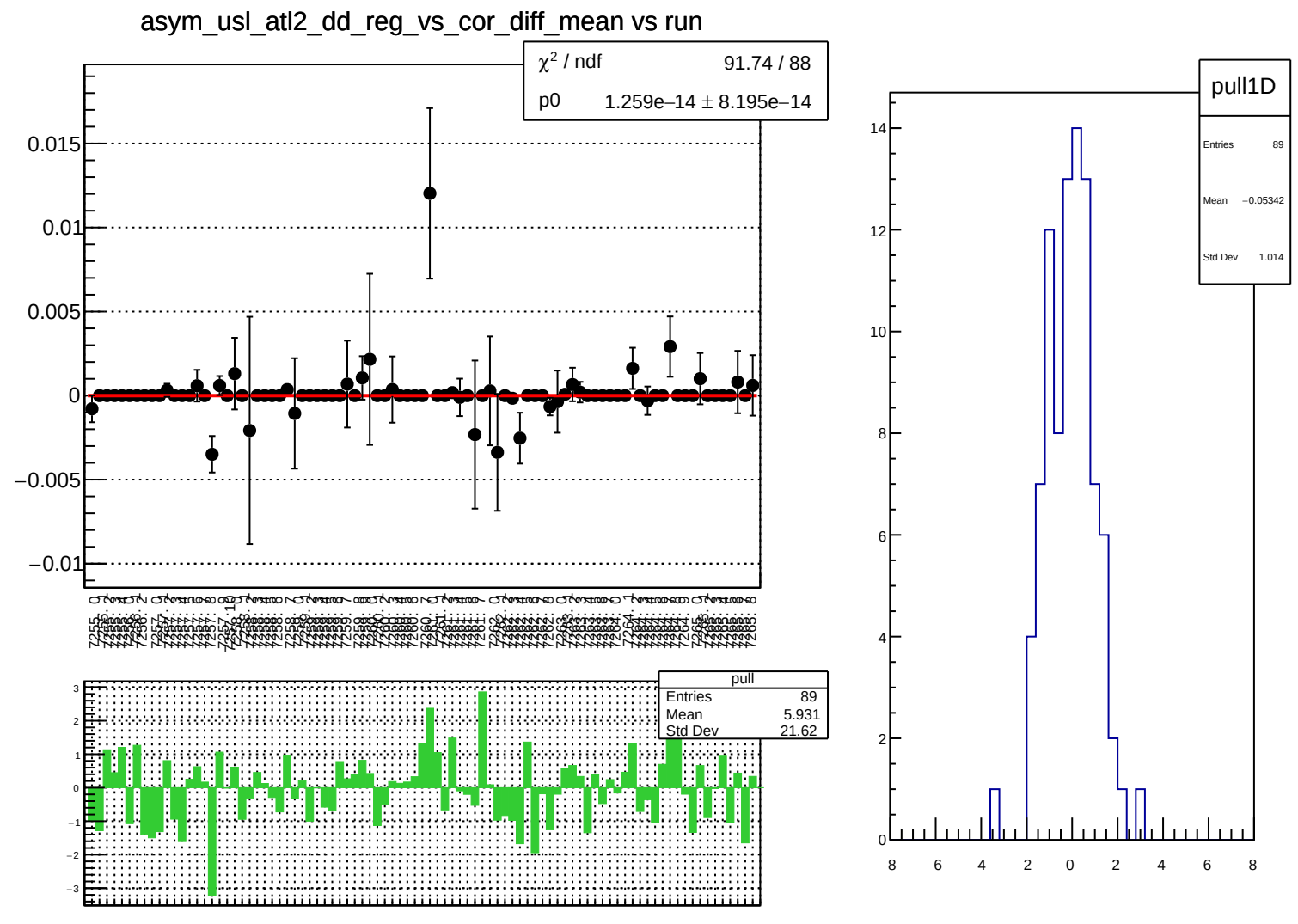

pull1D
Entries 89
Mean 0.00374
Std Dev 0.9819
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

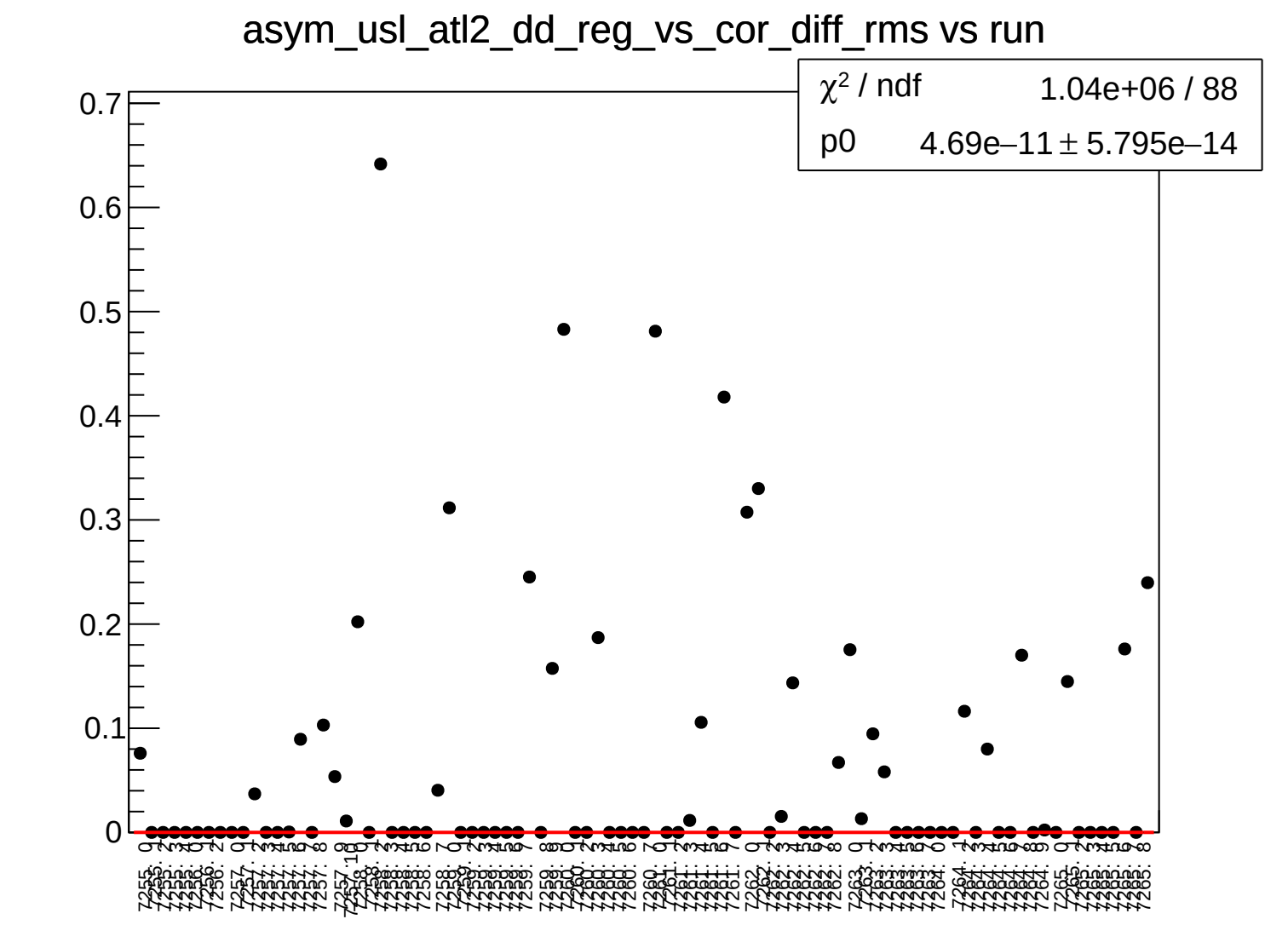

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 8755 / 88
p0 3319 ± 2.556
4000
3800
3600
3400
3200
3000
2800

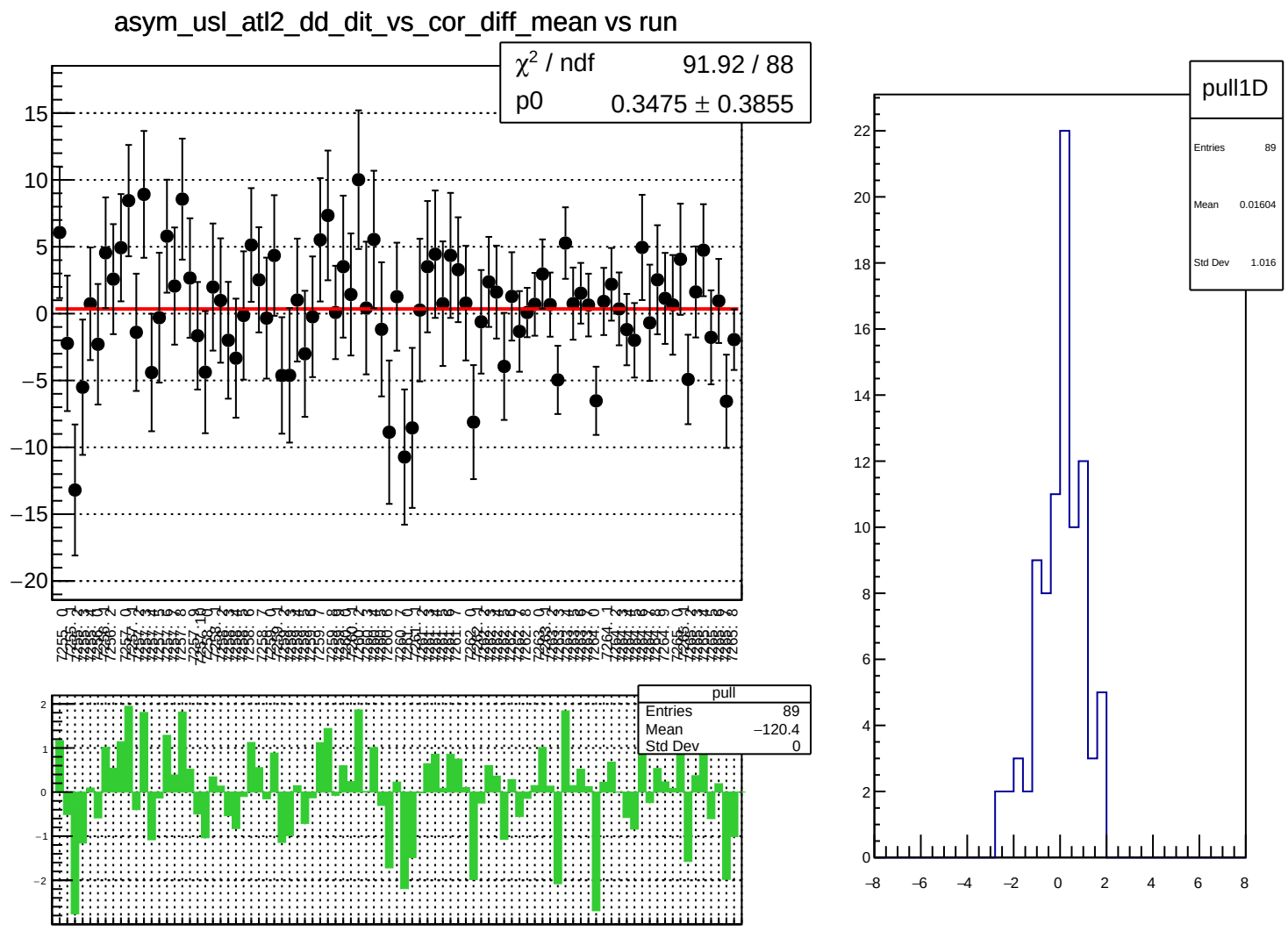

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 88.64 / 88
p0 1939 ± 4130
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 5178
Std Dev 0
2
1
0
−1
−2
−3

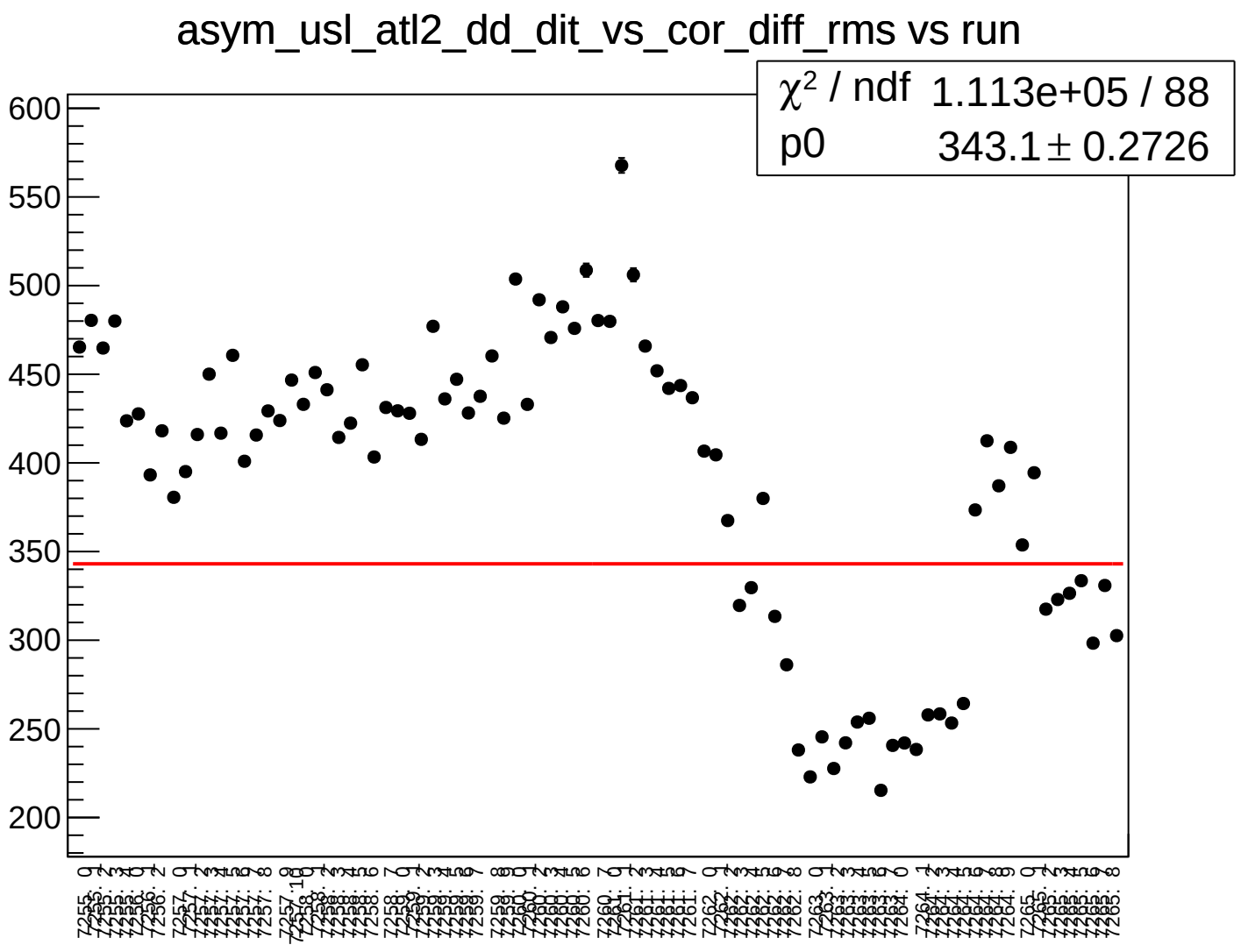

pull1D
Entries 89
Mean −0.0008296
Std Dev 0.998
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

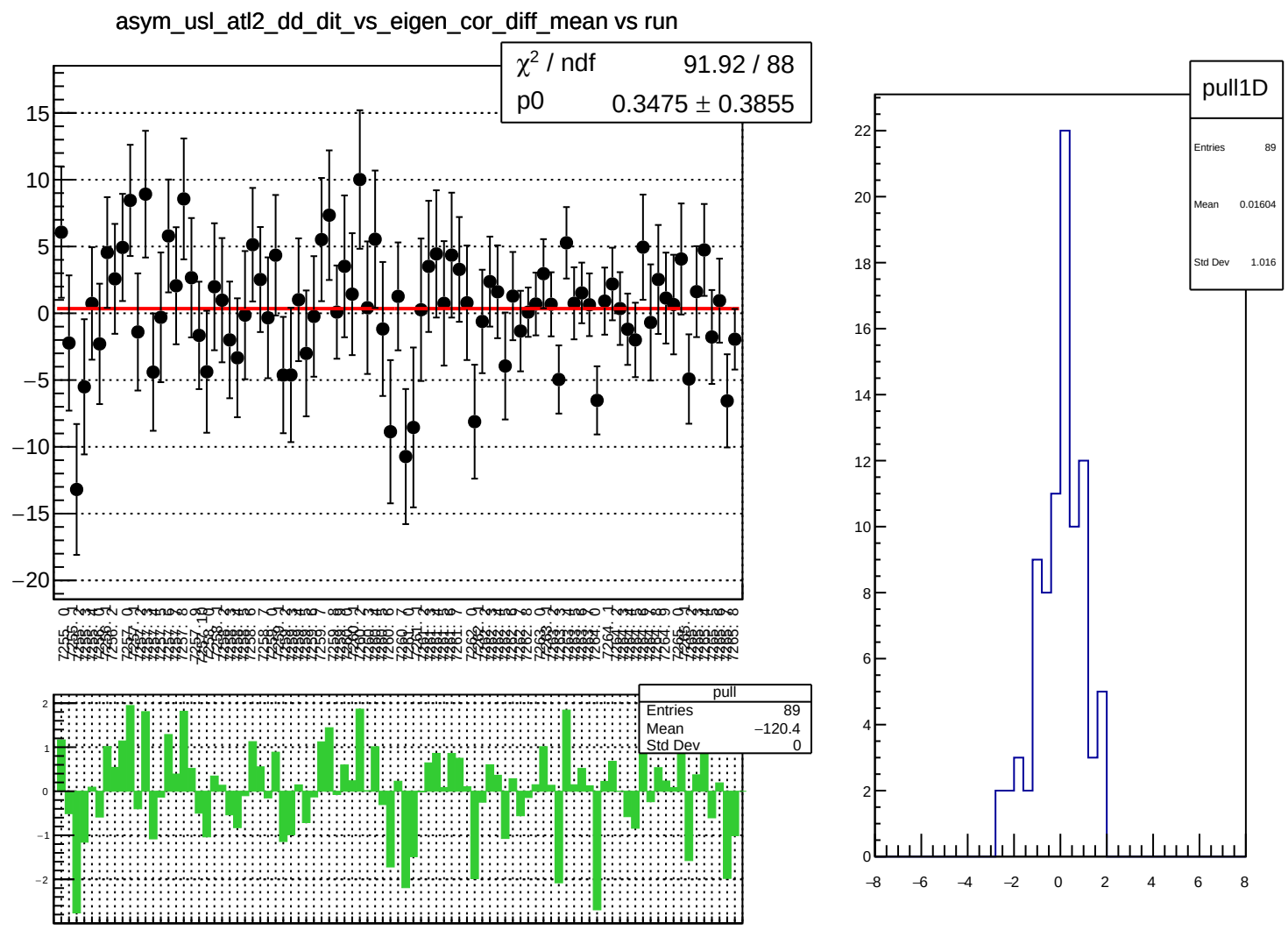

asym_usl_atl2_dd_rms vs run
χ² / ndf 5759 / 88
p0 3796 ± 2.921
4400
4200
4000
3800
3600
3400

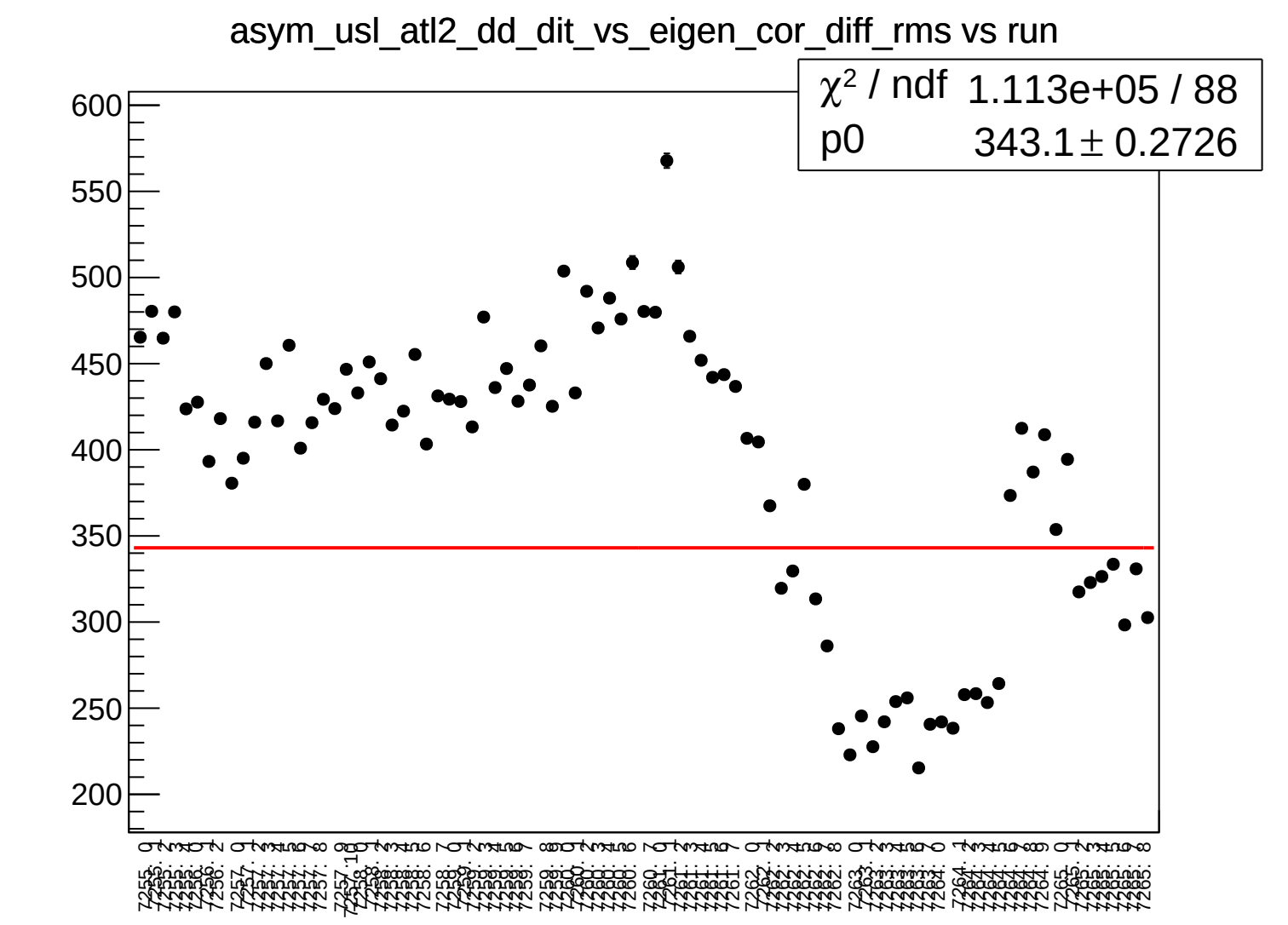

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.74 / 88
p0 1.259e−14 ± 8.195e−14
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 5.931
Std Dev 21.62
pull1D
Entries 89
Mean −0.05342
Std Dev 1.014

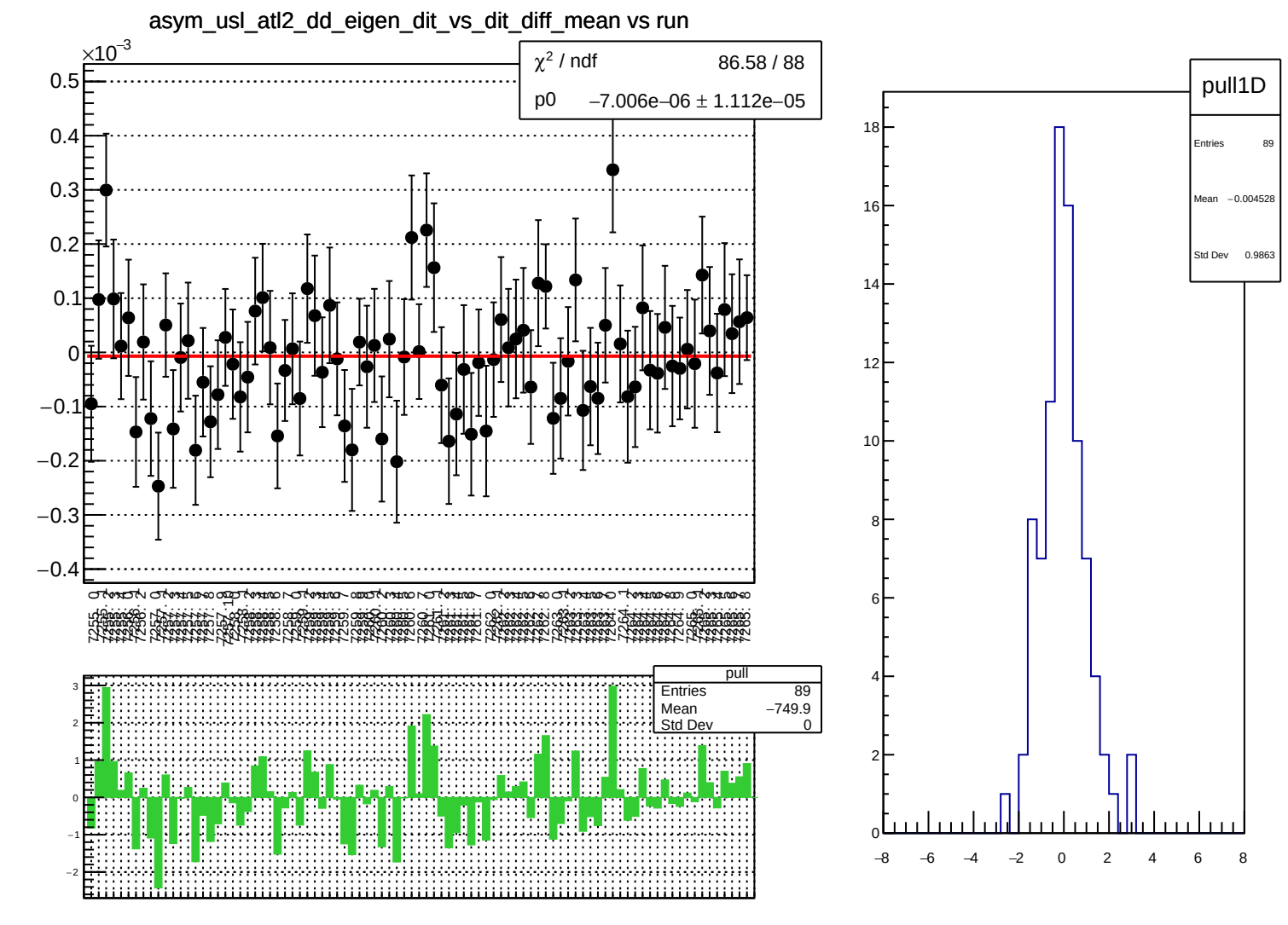

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.04e+06 / 88
p0 4.69e−11 ± 5.795e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

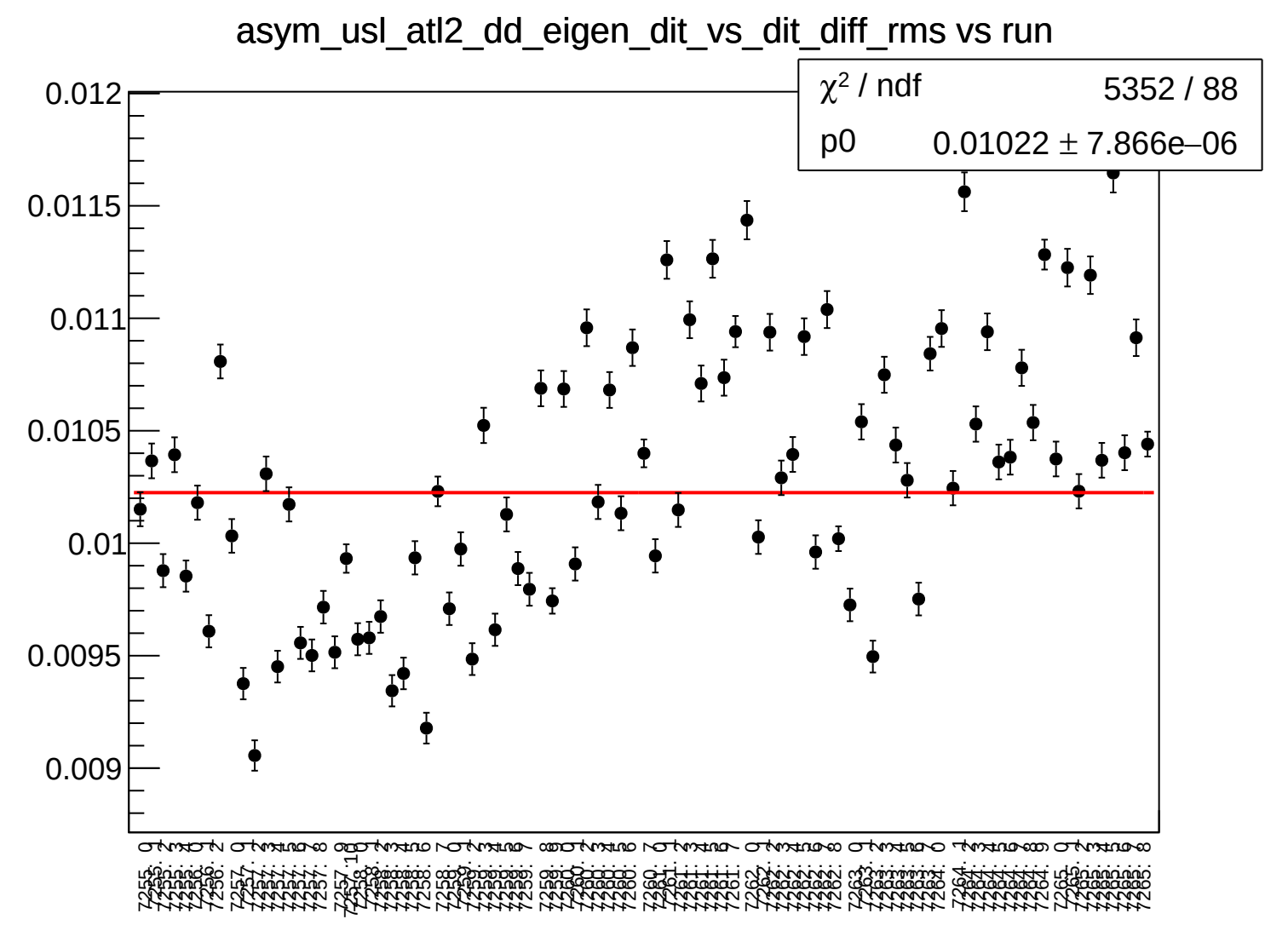

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.92 / 88
p0 0.3475 ± 0.3855
pull
Entries 89
Mean −120.4
Std Dev 0
pull1D
Entries 89
Mean 0.01604
Std Dev 1.016

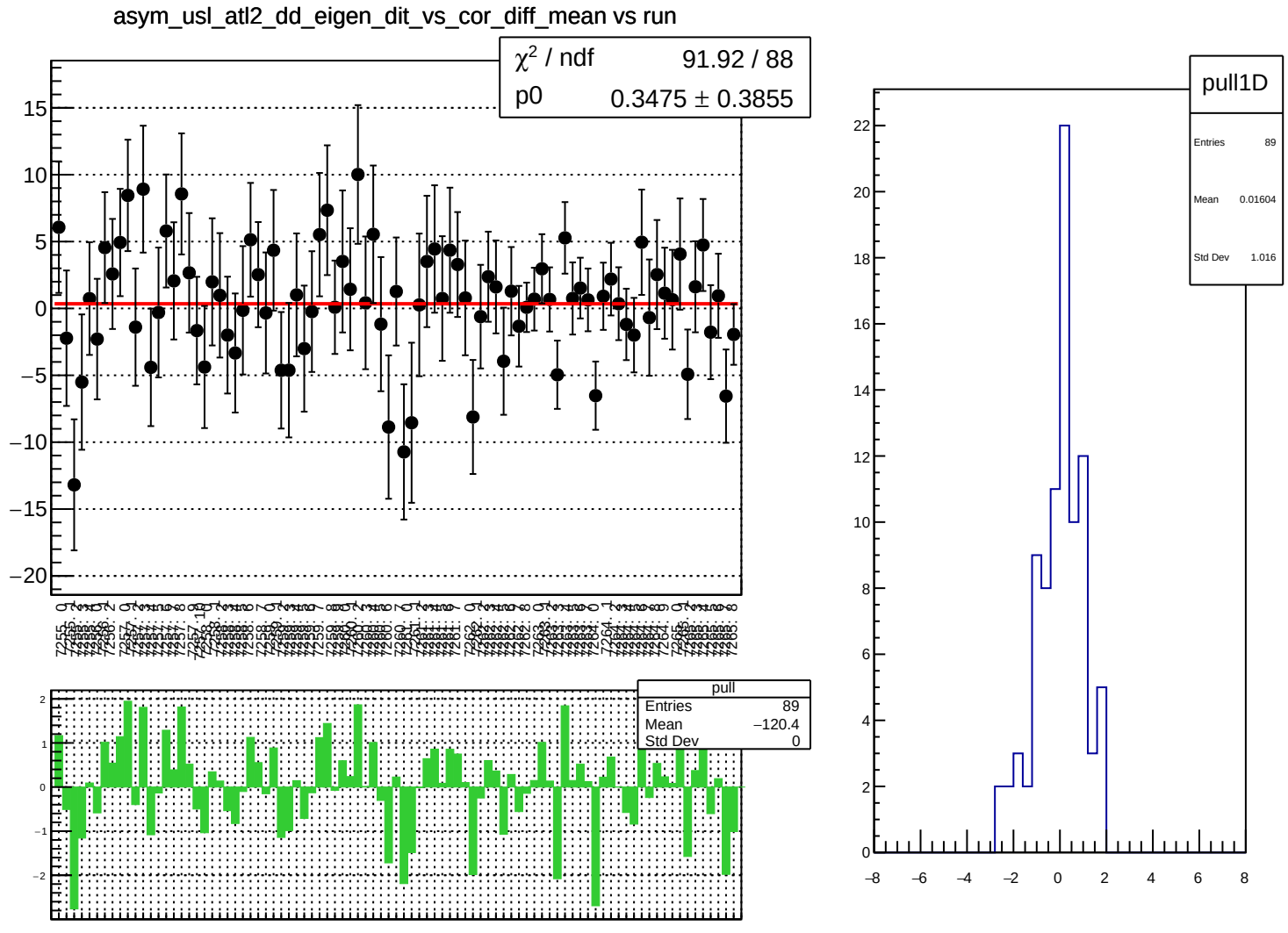

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.113e+05 / 88
p0 343.1 ± 0.2726
600
550
500
450
400
350
300
250
200

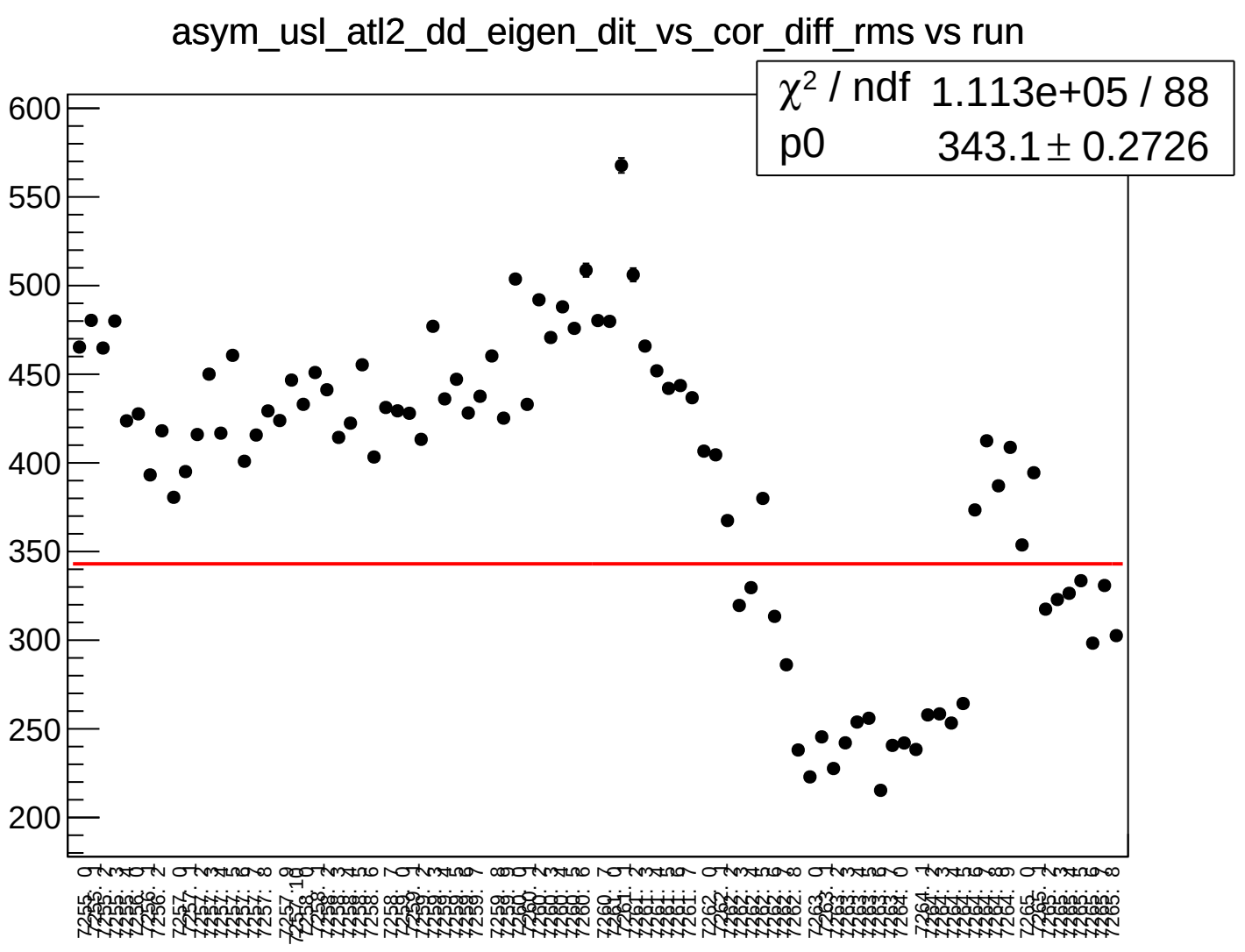

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.92 / 88
p0 0.3475 ± 0.3855
pull
Entries 89
Mean −120.4
Std Dev 0
pull1D
Entries 89
Mean 0.01604
Std Dev 1.016

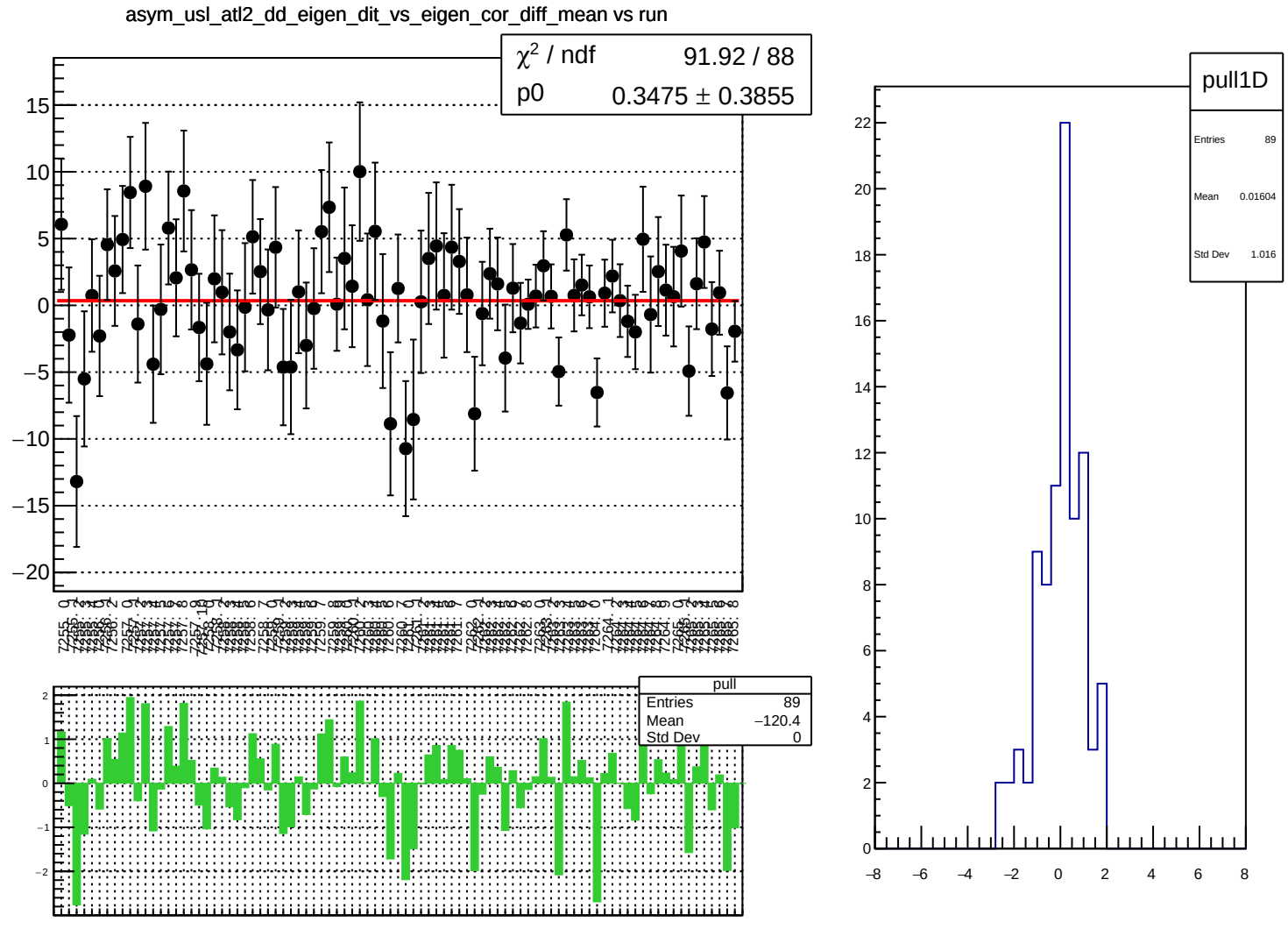

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.113e+05 / 88
p0 343.1 ± 0.2726
600
550
500
450
400
350
300
250
200

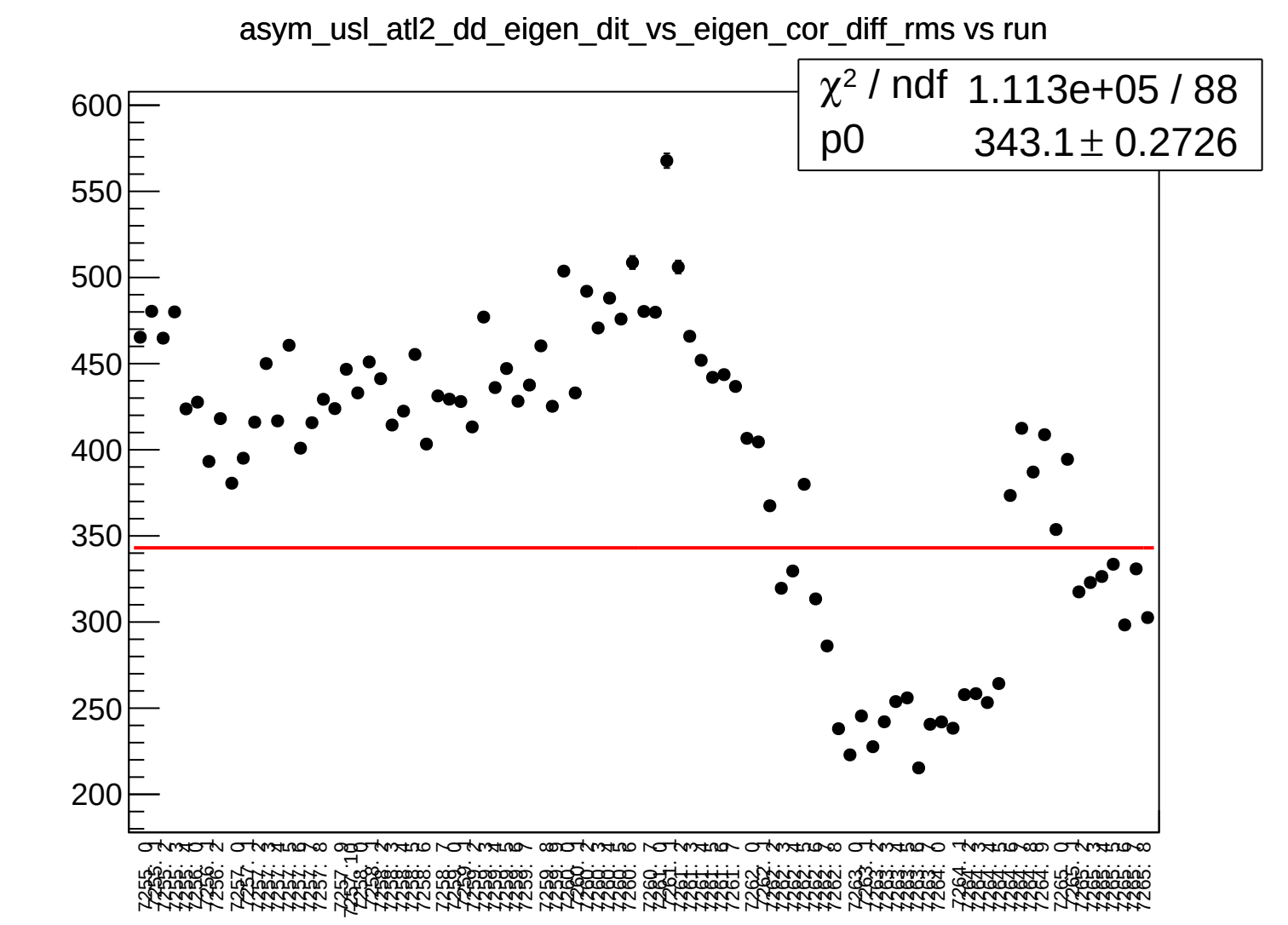

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.58 / 88
p0 −7.006e−06 ± 1.112e−05
pull
Entries 89
Mean −749.9
Std Dev 0
pull1D
Entries 89
Mean −0.004528
Std Dev 0.9863

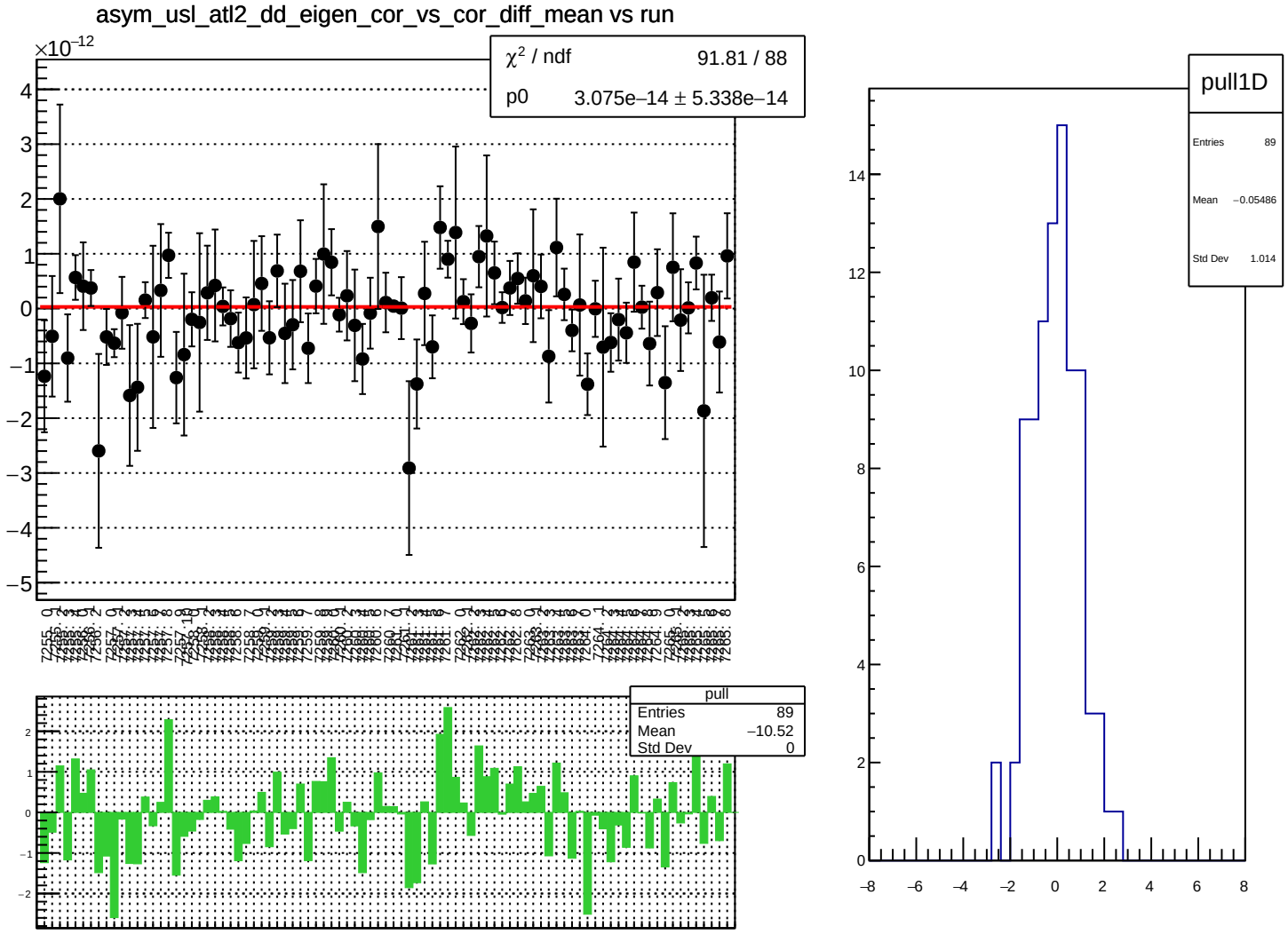

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5352 / 88
p0 0.01022 ± 7.866e–06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

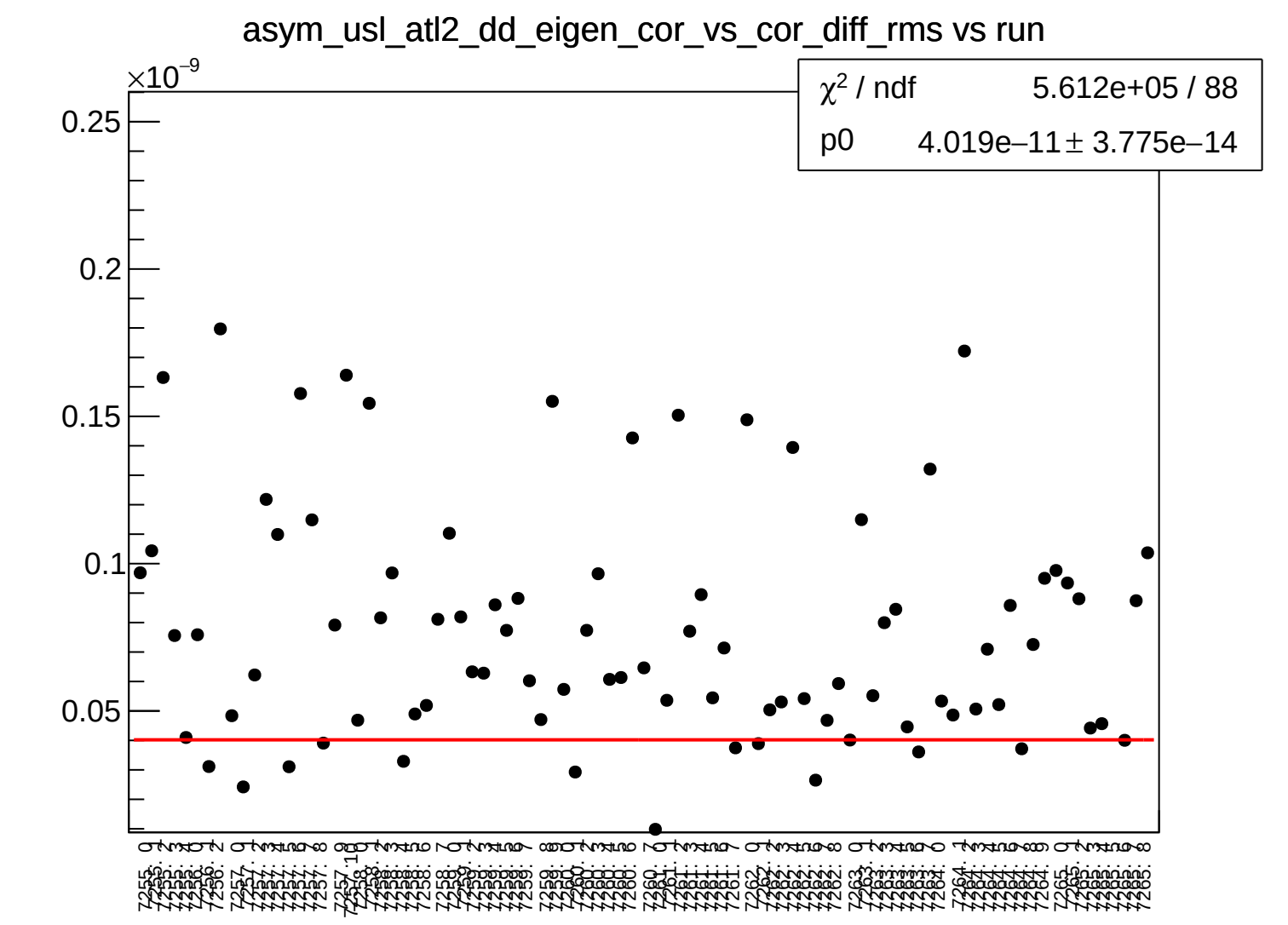

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.92 / 88
p0 0.3475 ± 0.3855
pull
Entries 89
Mean −120.4
Std Dev 0
pull1D
Entries 89
Mean 0.01604
Std Dev 1.016

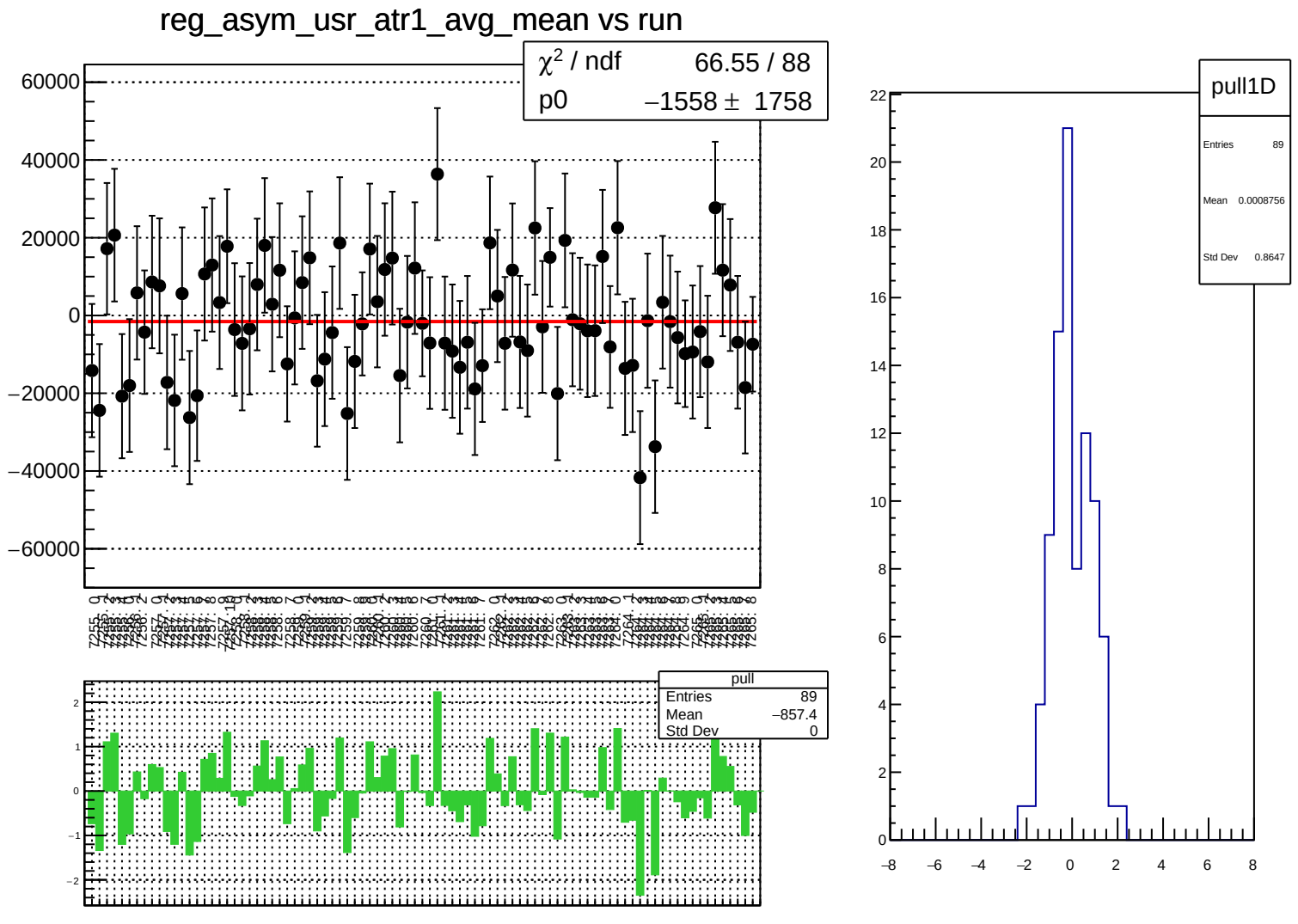

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.113e+05 / 88
p0 343.1 ± 0.2726
600
550
500
450
400
350
300
250
200

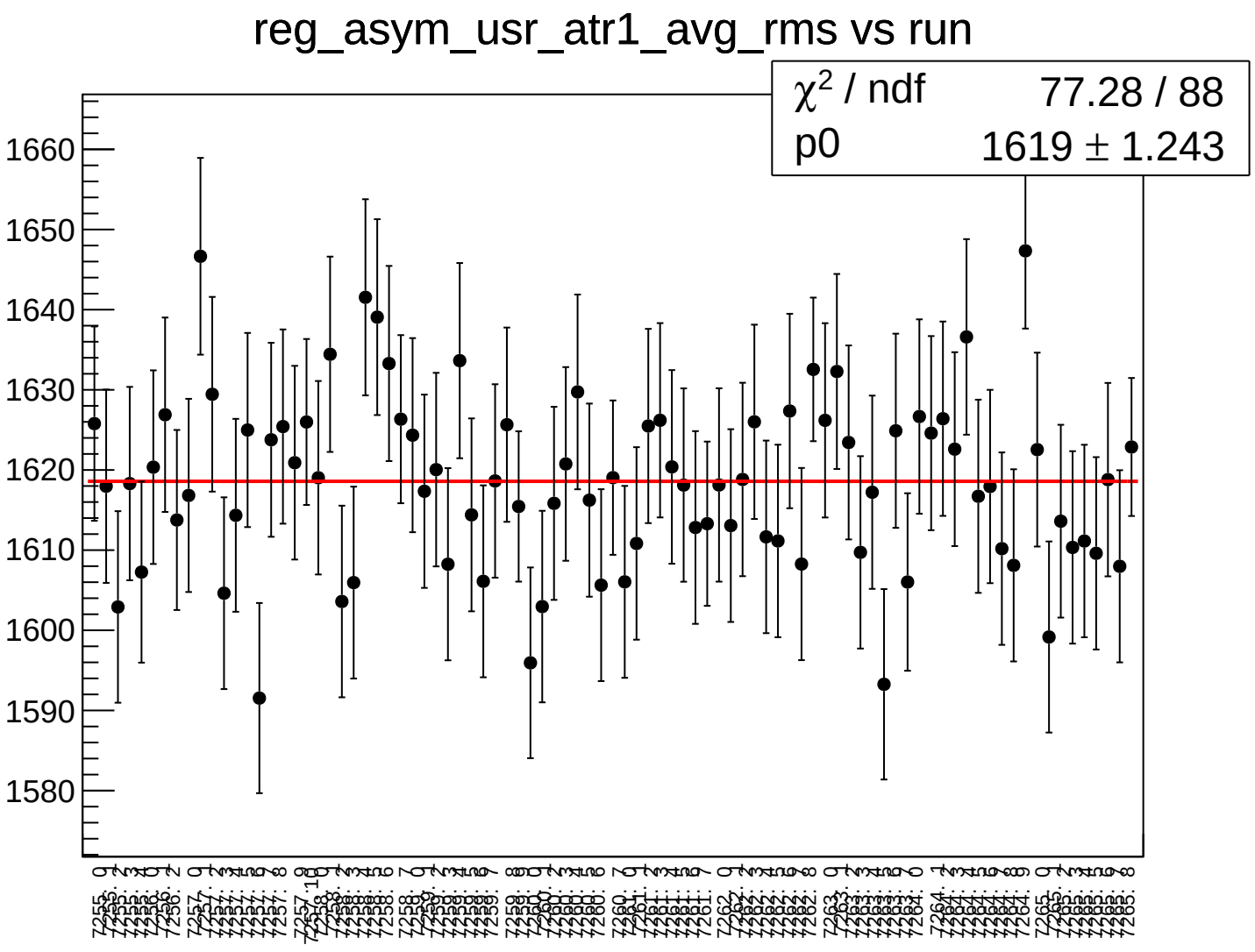

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.92 / 88
p0 0.3475 ± 0.3855
pull
Entries 89
Mean −120.4
Std Dev 0
pull1D
Entries 89
Mean 0.01604
Std Dev 1.016

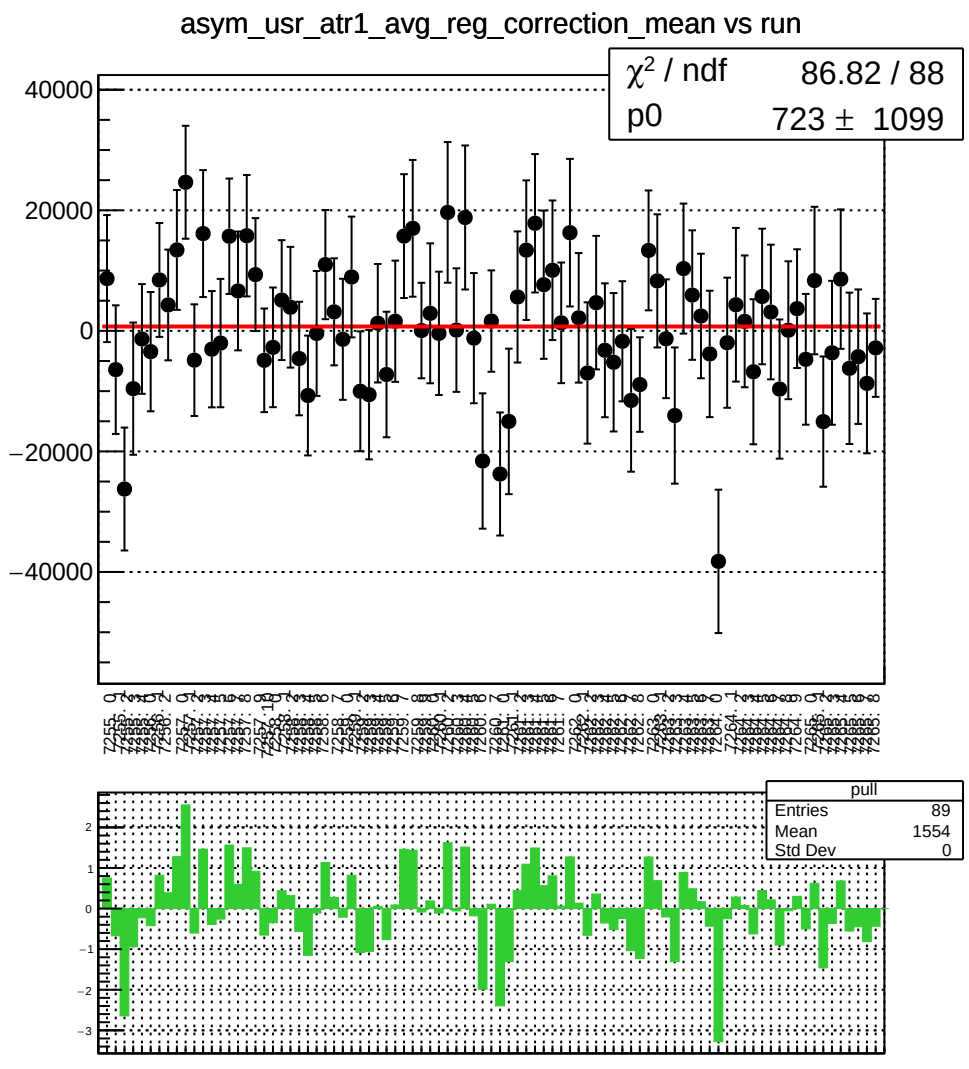

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.113e+05 / 88
p0 343.1 ± 0.2726
600
550
500
450
400
350
300
250
200

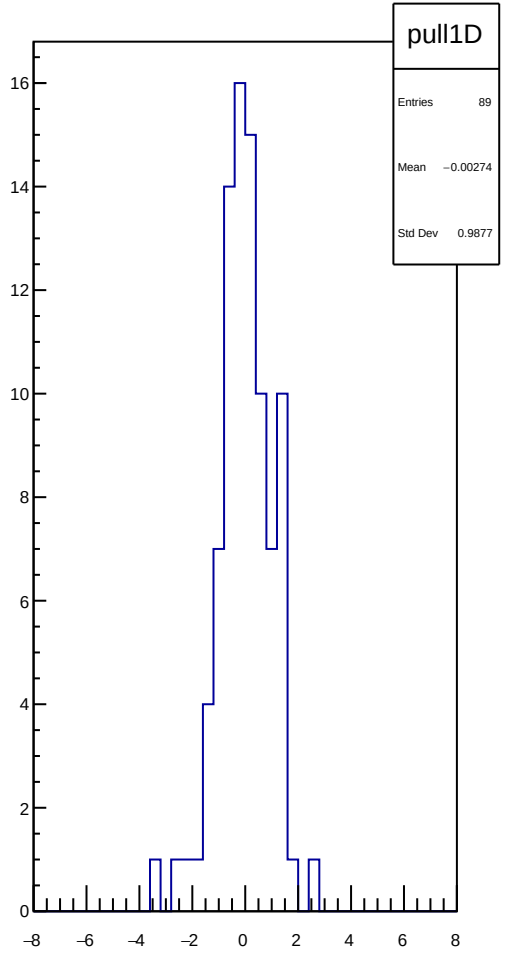

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.81 / 88
p0 3.075e−14 ± 5.338e−14
pull
Entries 89
Mean −10.52
Std Dev 0
pull1D
Entries 89
Mean −0.05486
Std Dev 1.014

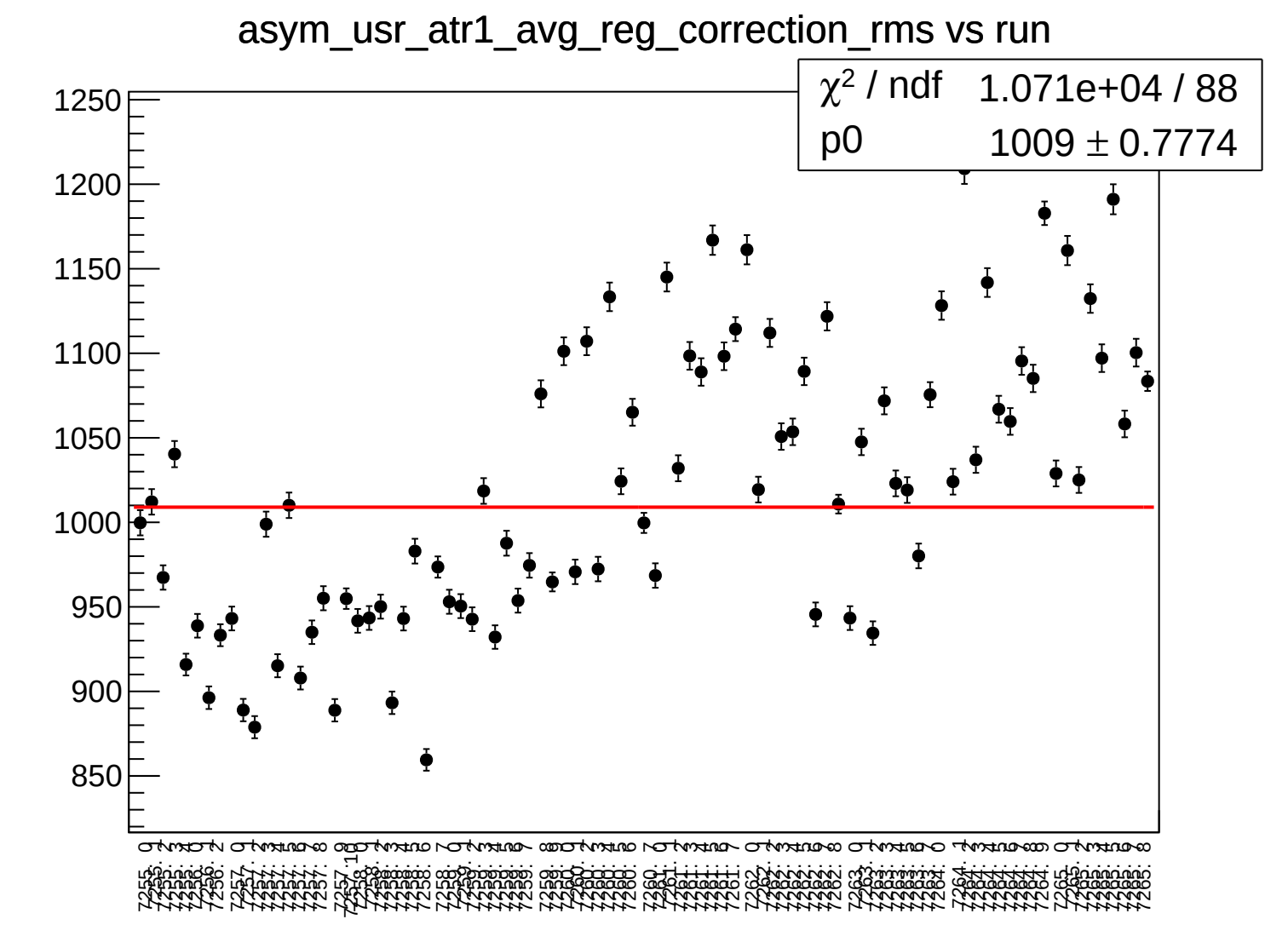

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.612e+05 / 88
p0 4.019e−11 ± 3.775e−14
0.25
0.2
0.15
0.1
0.05

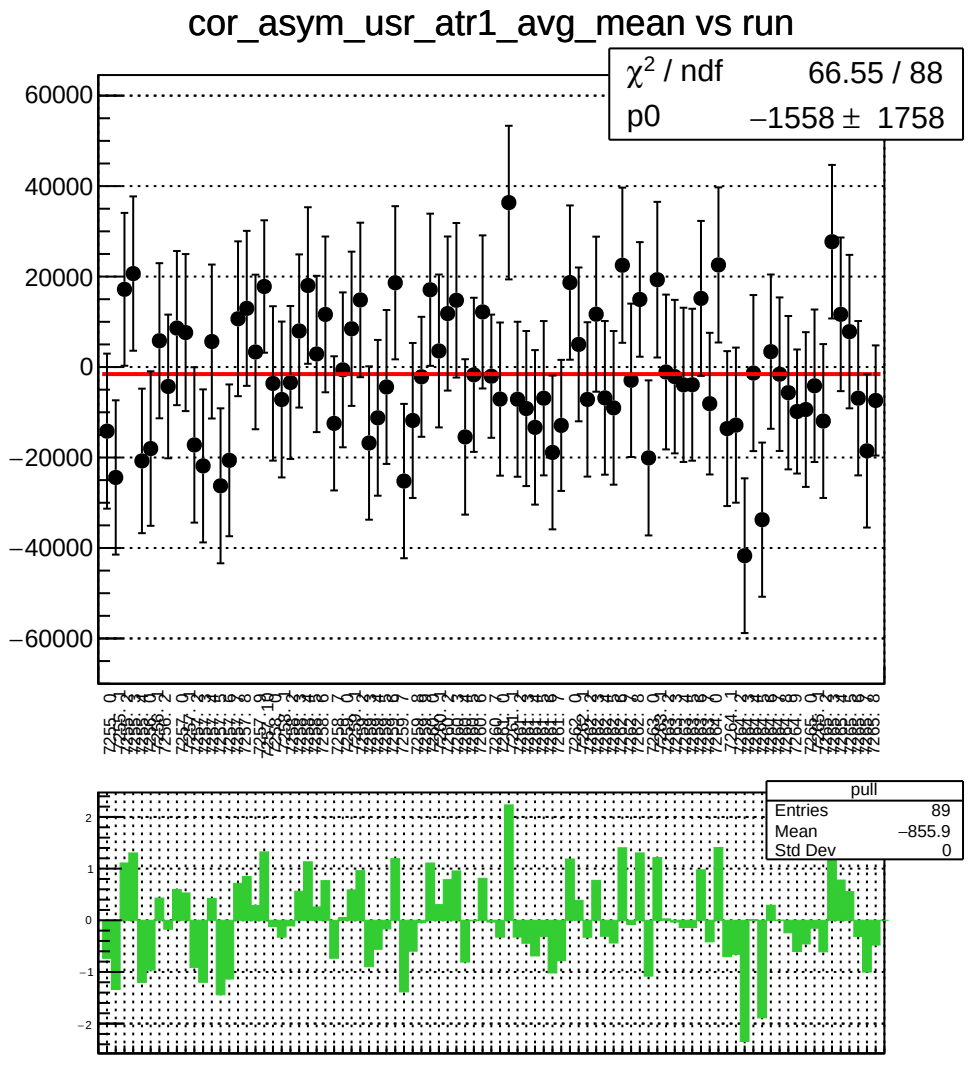

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 66.55 / 88
p0 −1558 ± 1758
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −857.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.0008756
Std Dev 0.8647
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

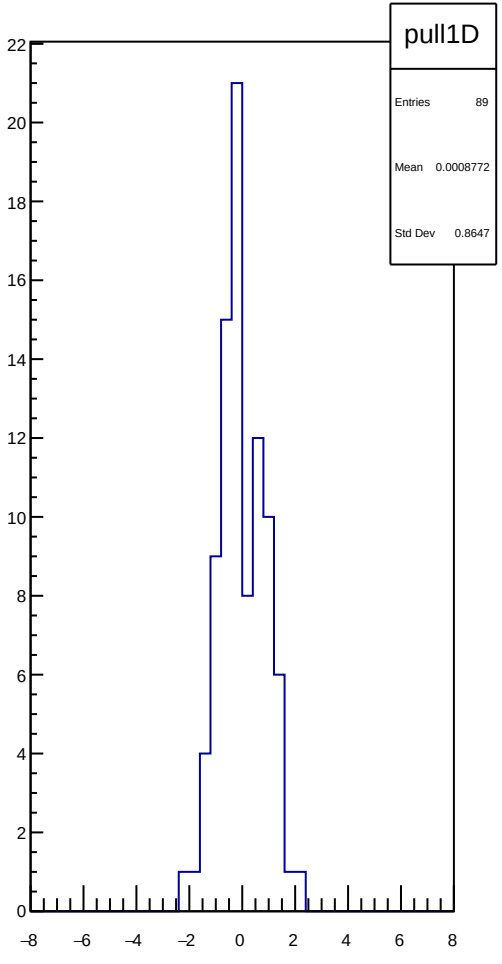

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 77.28 / 88
p0 1619 ± 1.243
1660
1650
1640
1630
1620
1610
1600
1590
1580

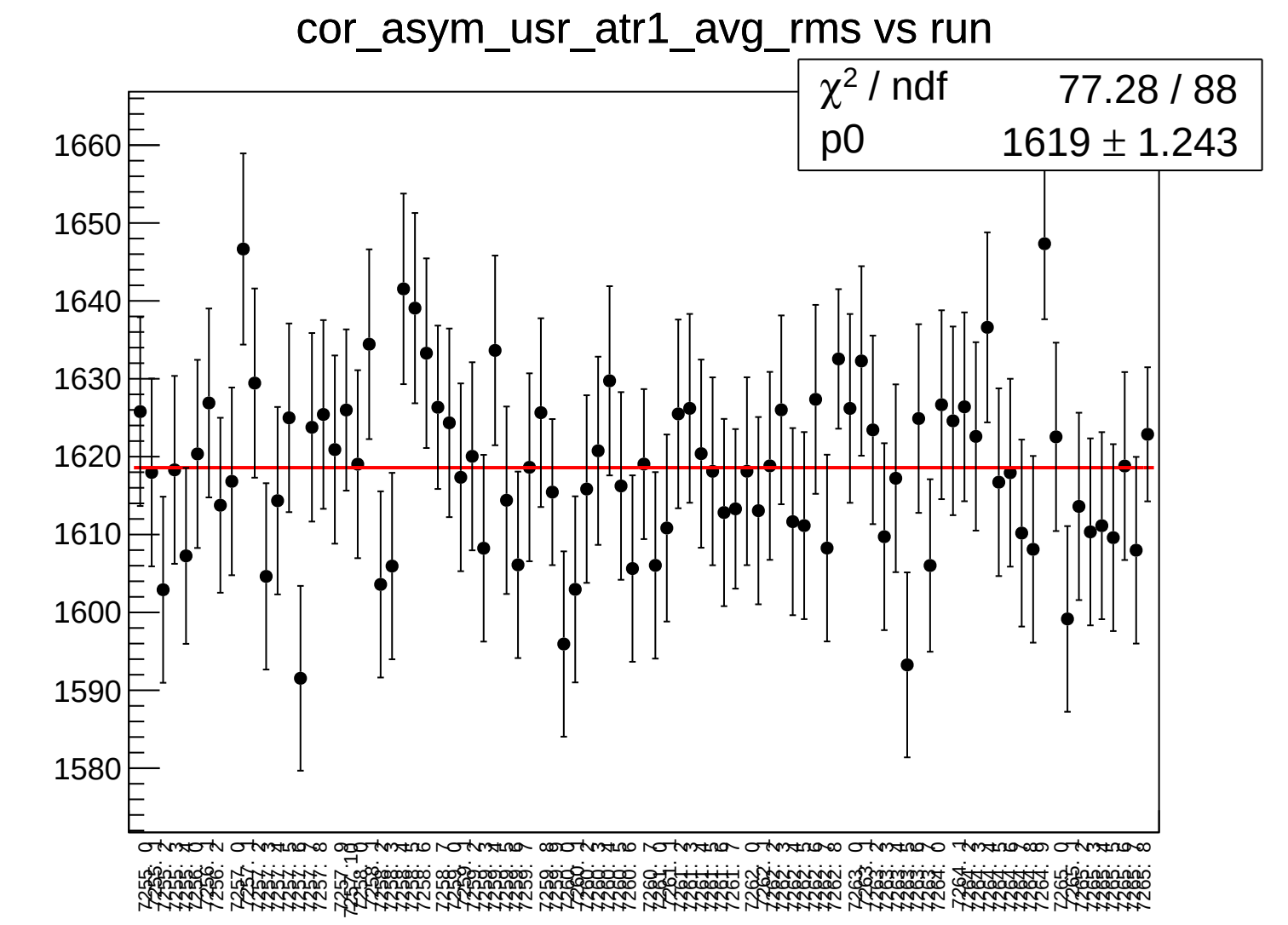

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 86.82 / 88
p0 723 ± 1099
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 1554
Std Dev 0
2
1
0
−1
−2
−3

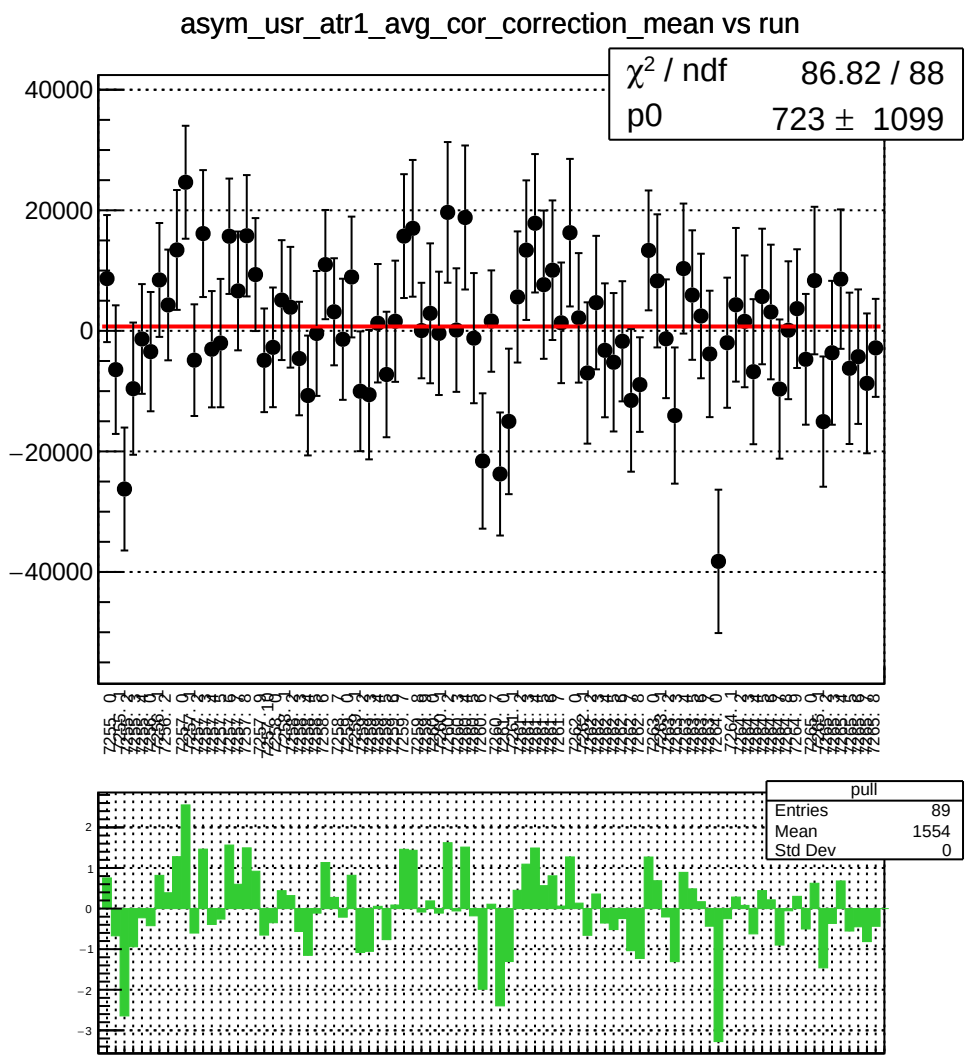

pull1D
Entries 89
Mean −0.00274
Std Dev 0.9877
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

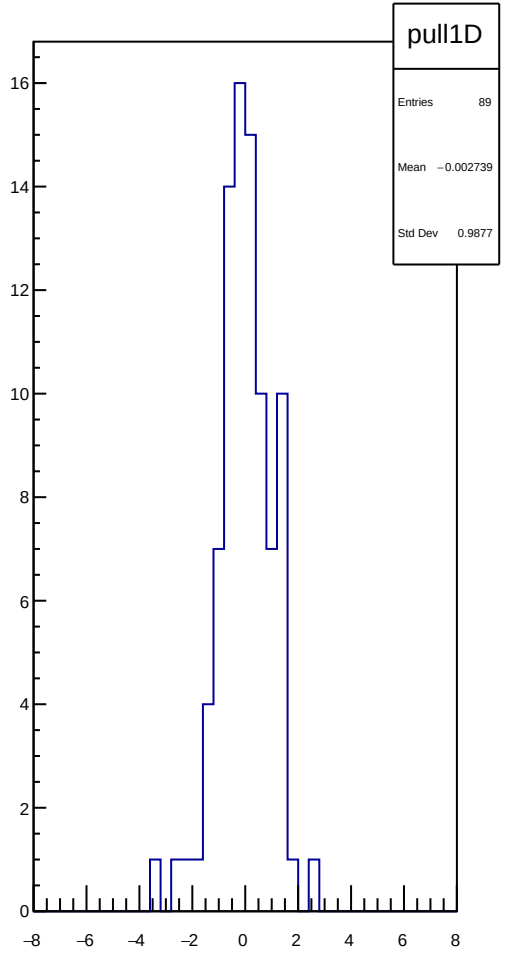

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 1.071e+04 / 88
p0 1009 ± 0.7774
1250
1200
1150
1100
1050
1000
950
900
850

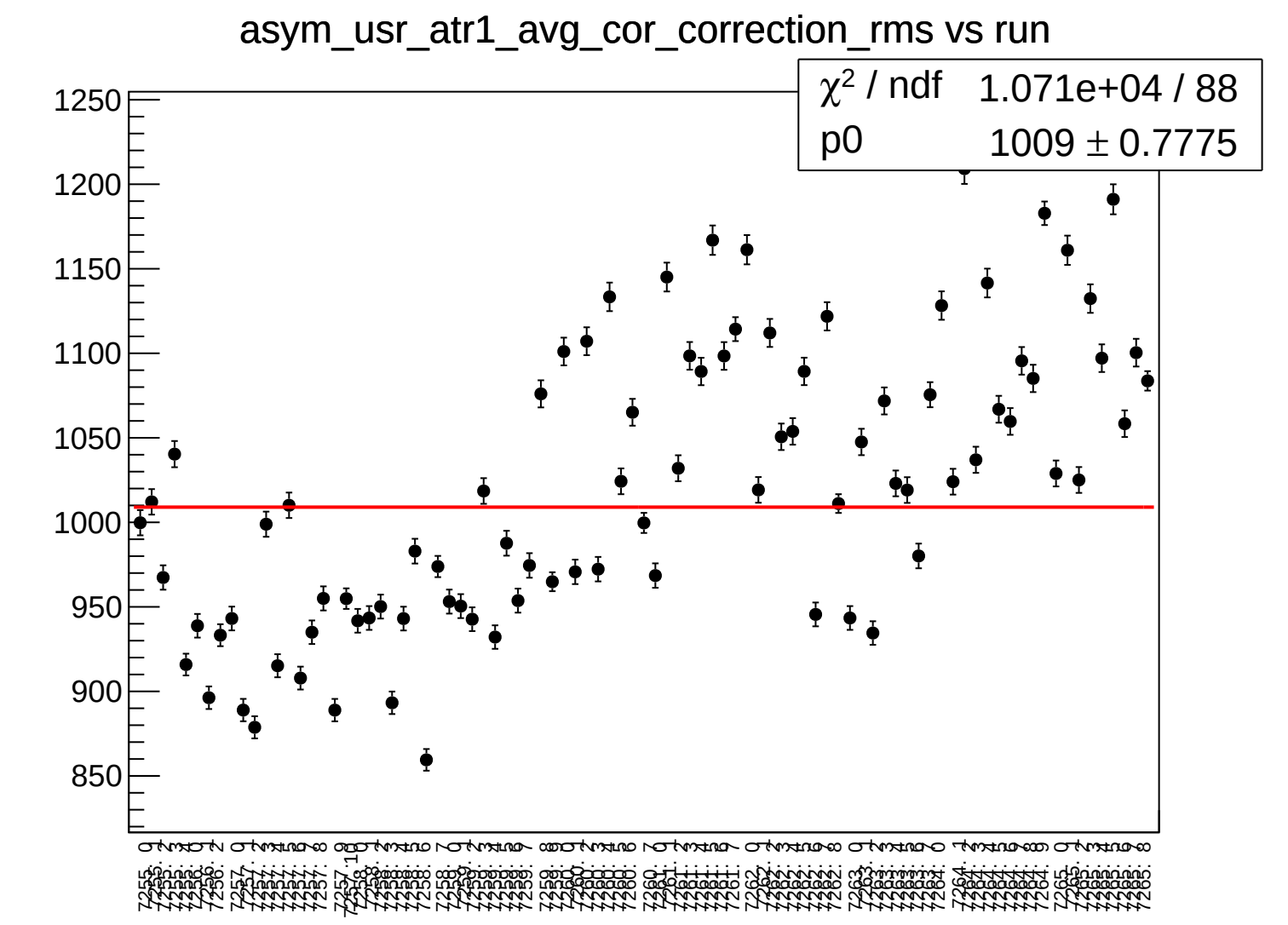

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 66.55 / 88
p0 −1558 ± 1758
pull
Entries 89
Mean −855.9
Std Dev 0

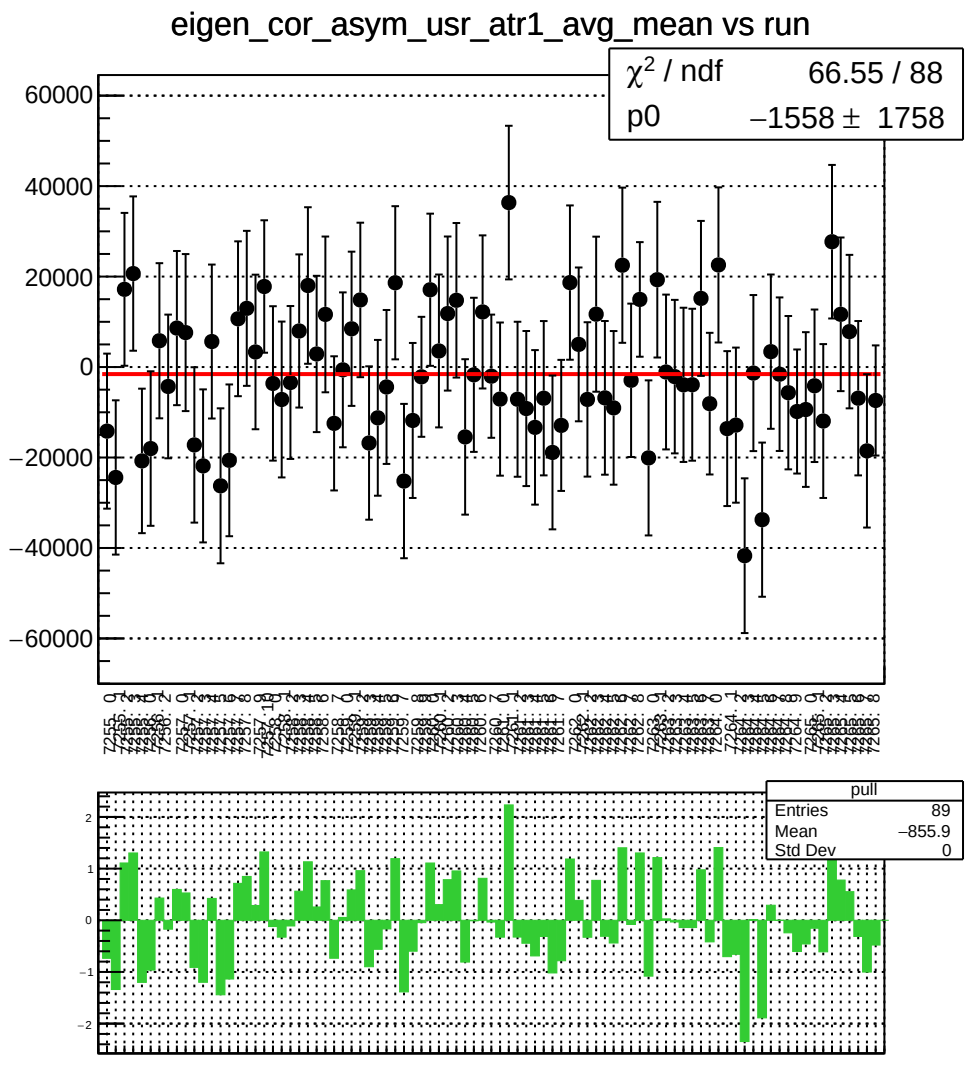

pull1D
Entries 89
Mean 0.0008772
Std Dev 0.8647

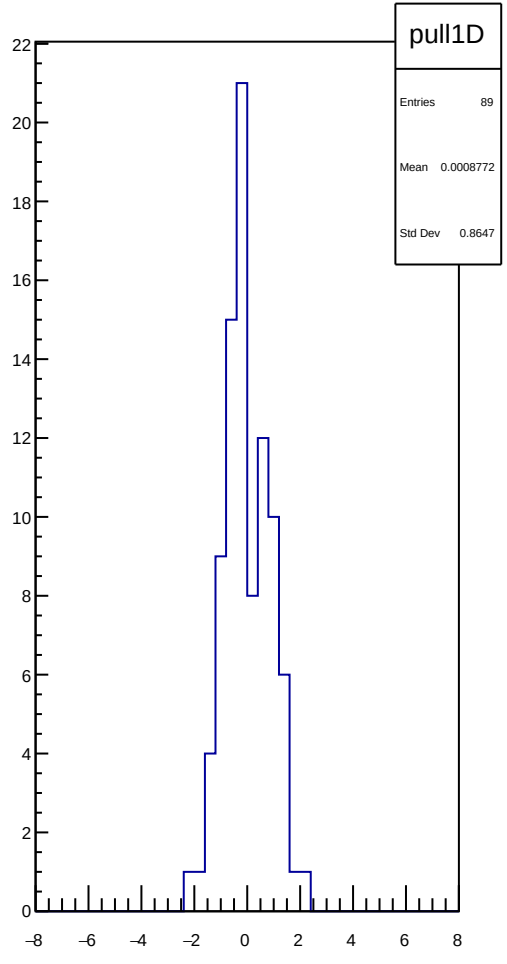

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 77.28 / 88
p0 1619 ± 1.243
1660
1650
1640
1630
1620
1610
1600
1590
1580

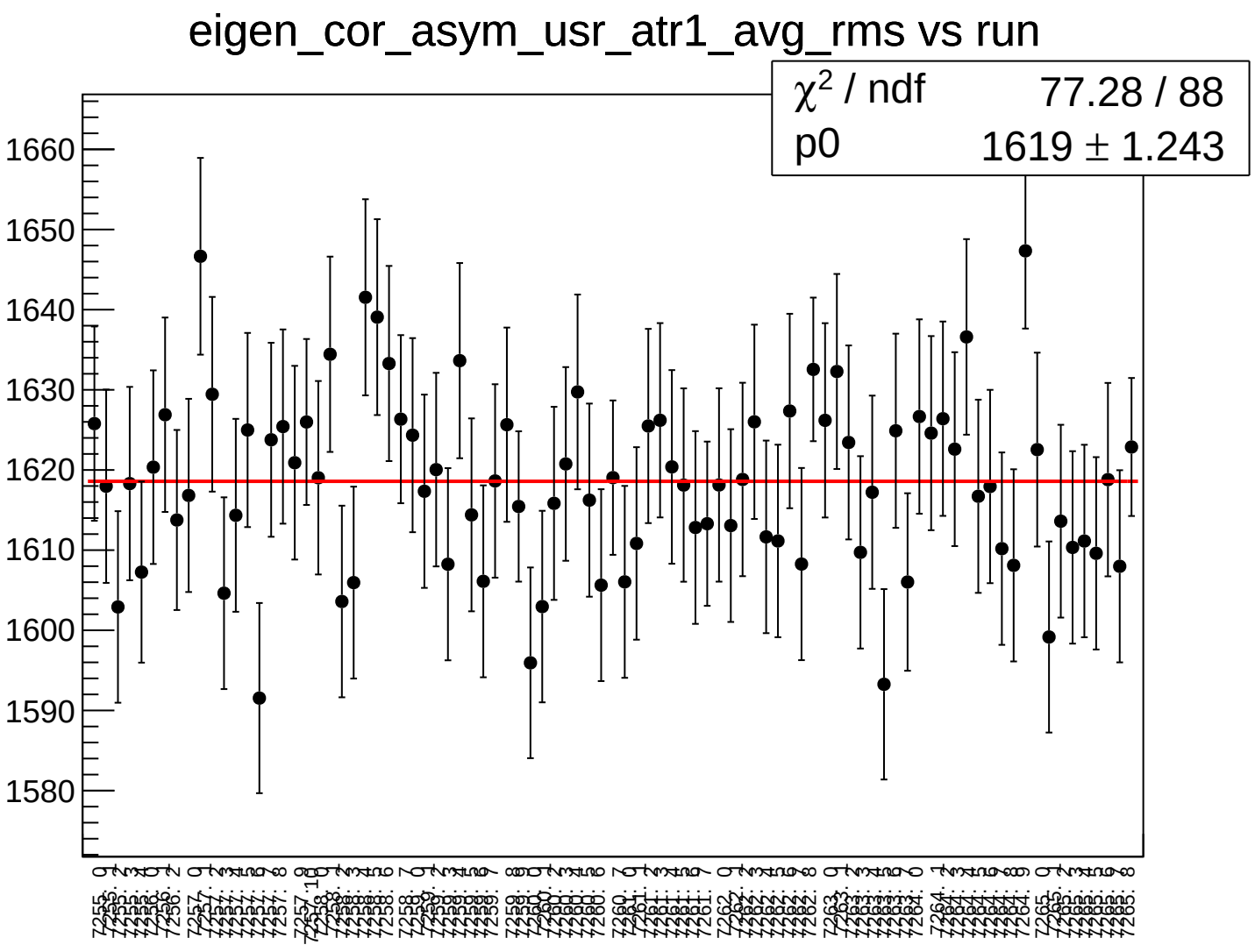

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 86.82 / 88
p0 723 ± 1099
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 1554
Std Dev 0
2
1
0
−1
−2
−3

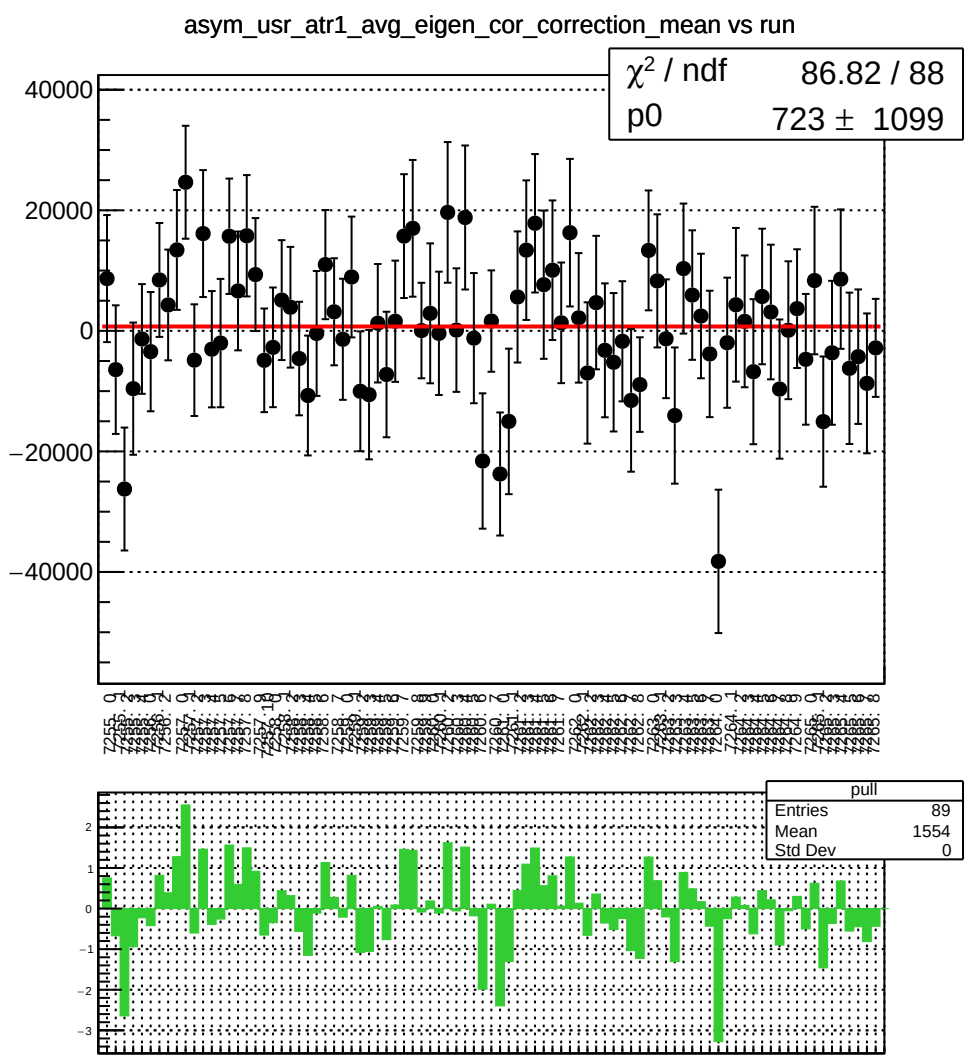

pull1D
Entries 89
Mean −0.002739
Std Dev 0.9877
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

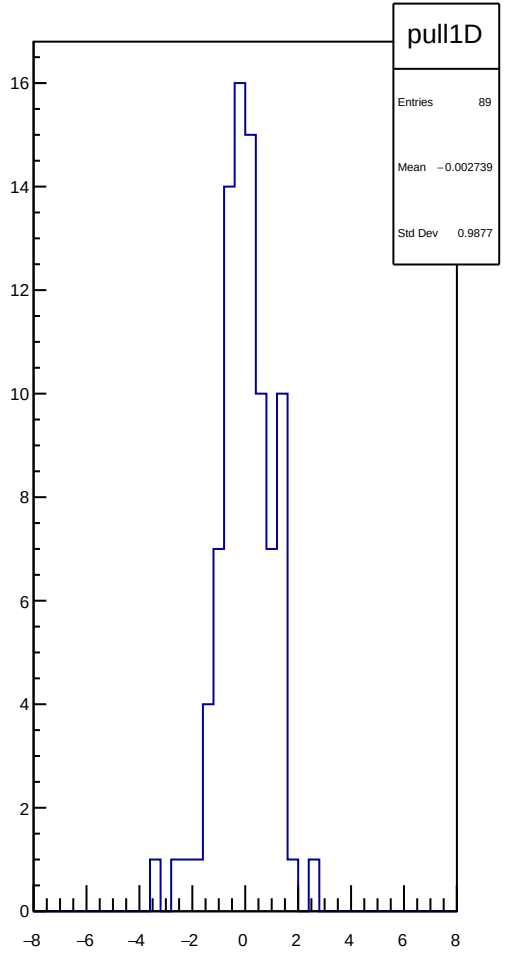

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 1.071e+04 / 88
p0 1009 ± 0.7775
1250
1200
1150
1100
1050
1000
950
900
850

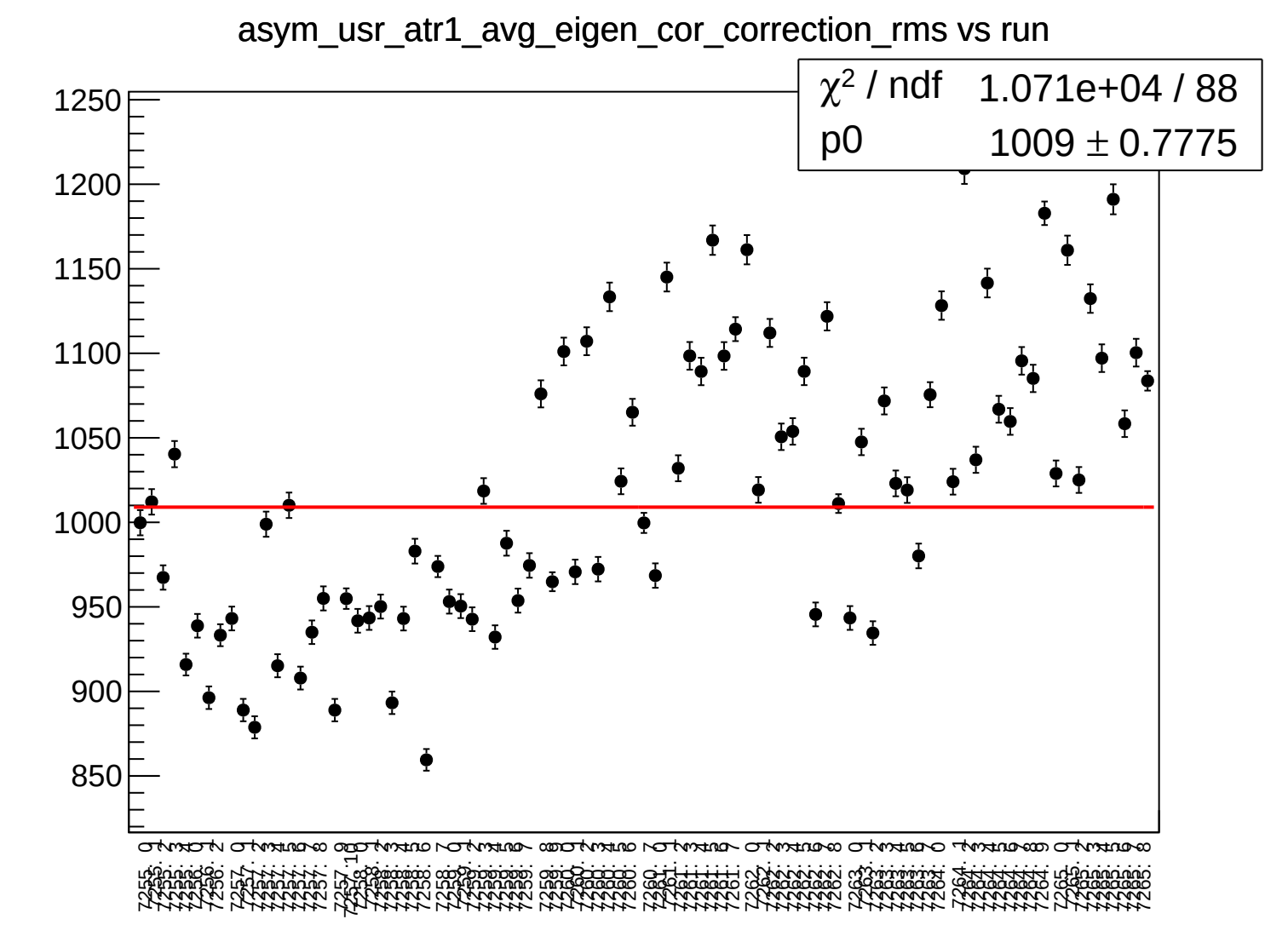

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 66.55 / 88
p0 −1558 ± 1758
pull
Entries 89
Mean −855.9
Std Dev 0

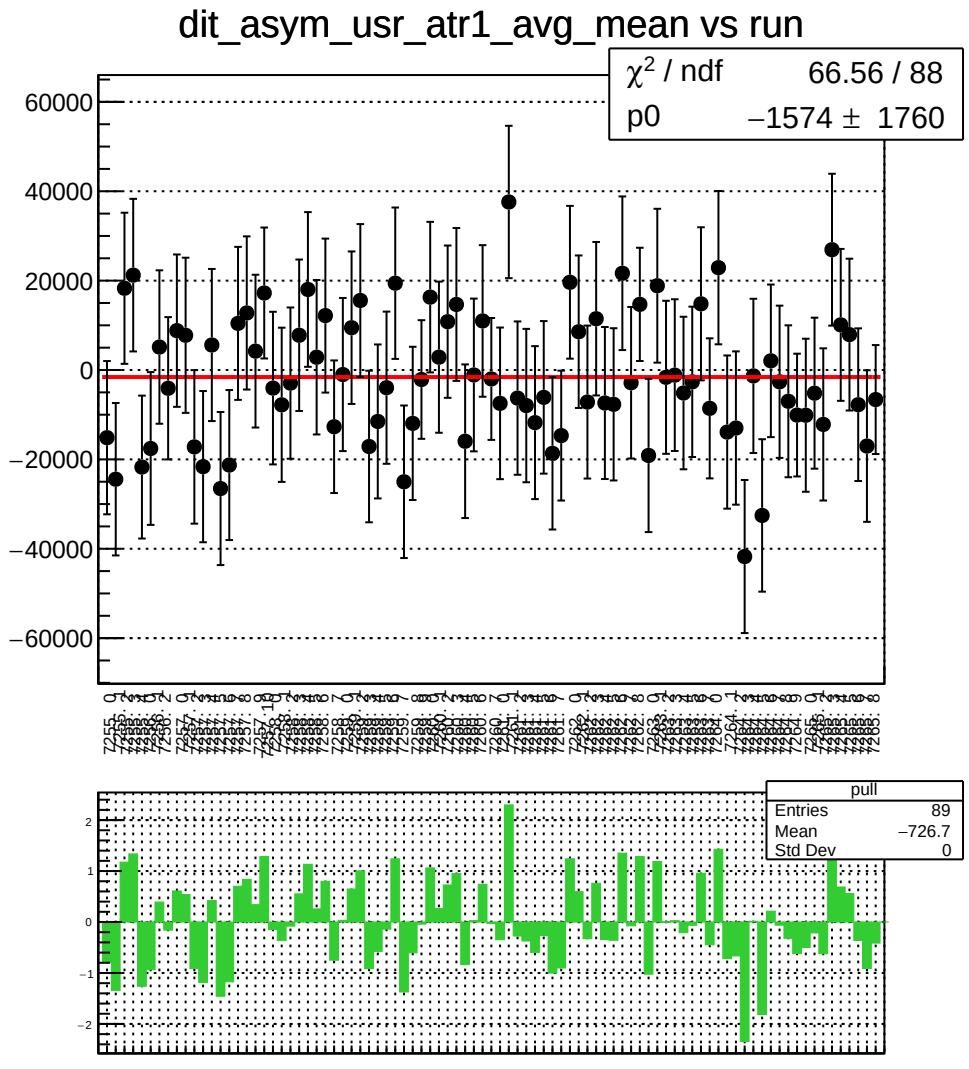

pull1D
Entries 89
Mean 0.0008772
Std Dev 0.8647

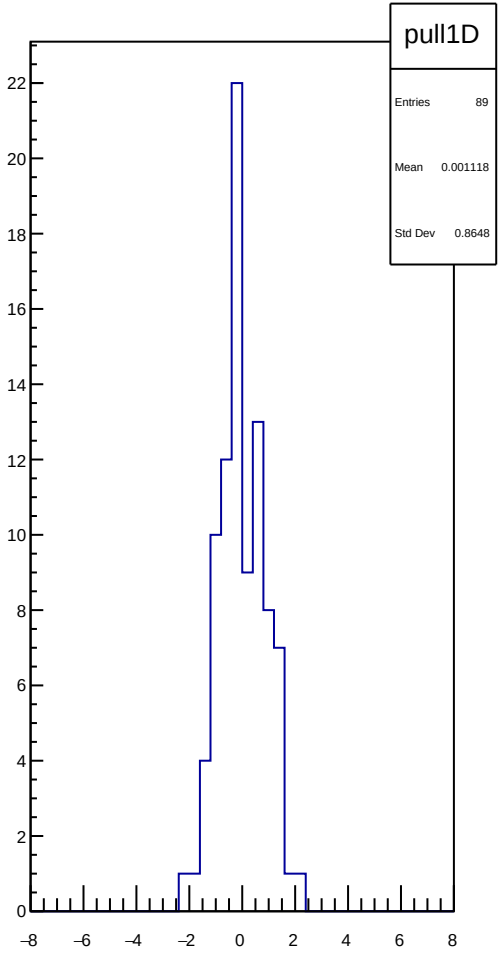

eigen_cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 77.28 / 88
p0 1619 ± 1.243
1660
1650
1640
1630
1620
1610
1600
1590
1580

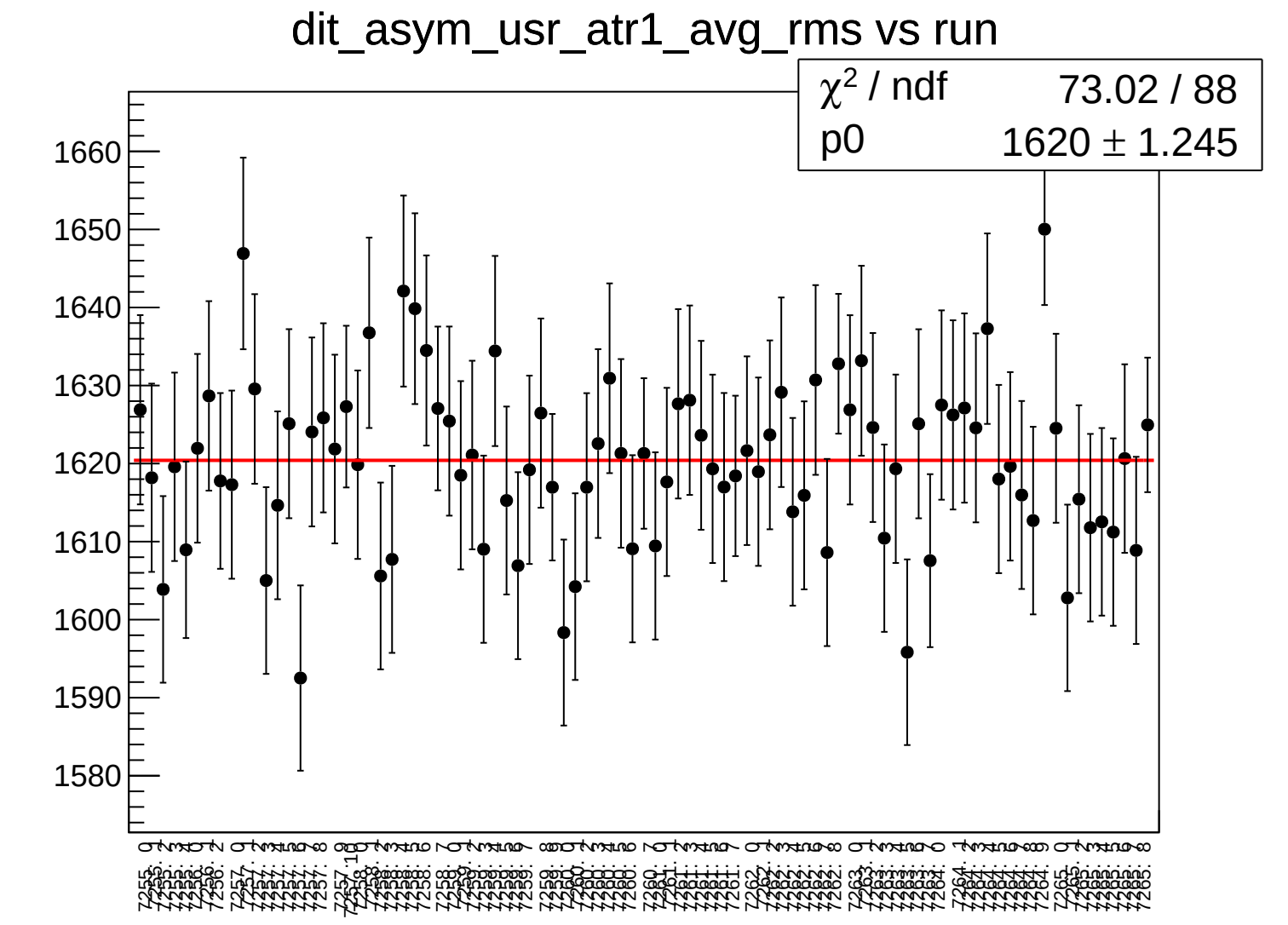

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.82 / 88
p0 723 ± 1099
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 1554
Std Dev 0
2
1
0
−1
−2
−3

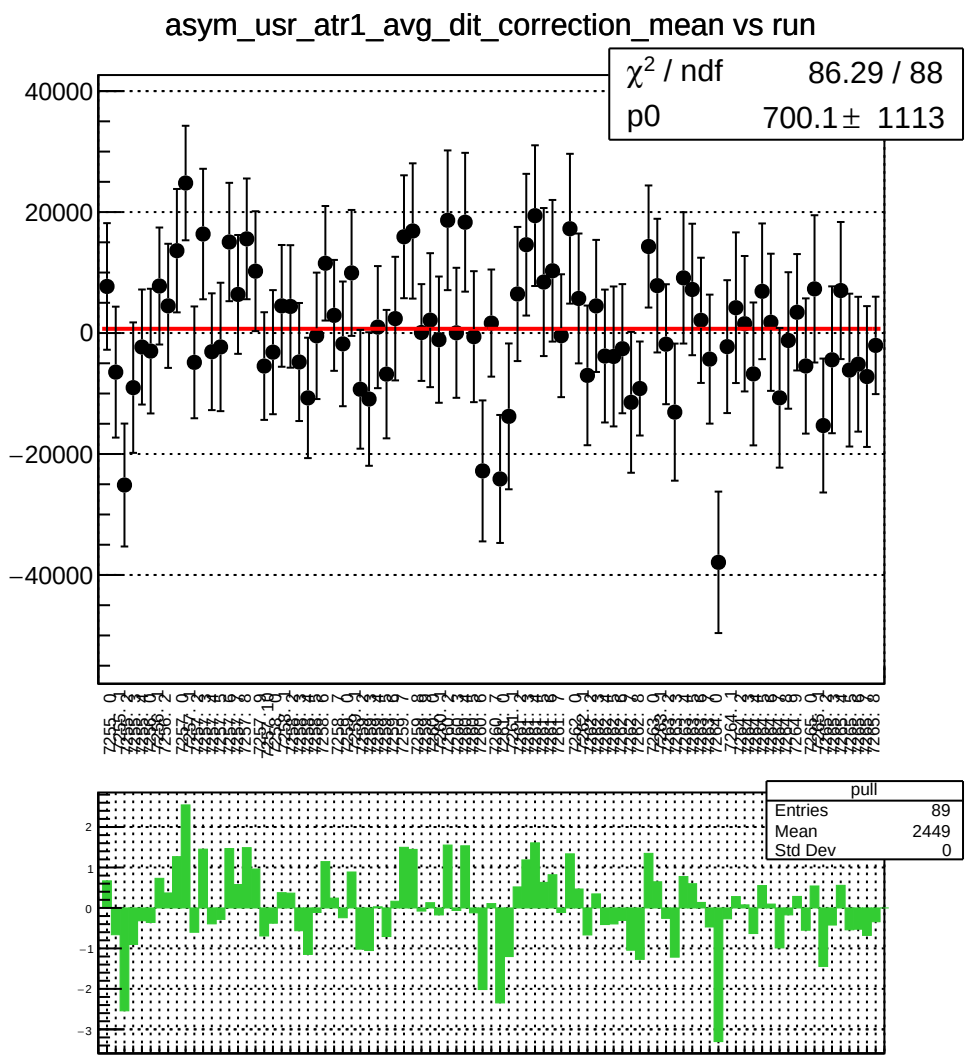

pull1D
Entries 89
Mean −0.002739
Std Dev 0.9877
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

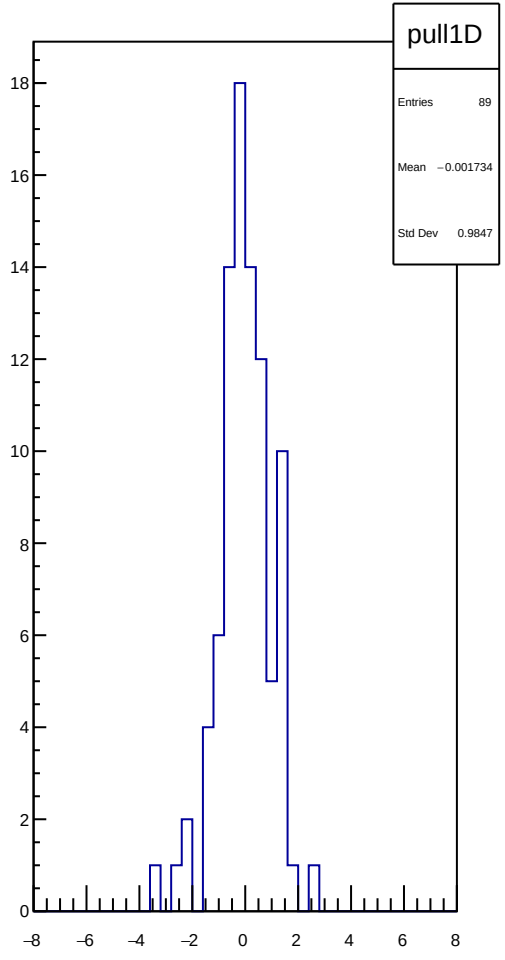

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.071e+04 / 88
p0 1009 ± 0.7775
1250
1200
1150
1100
1050
1000
950
900
850

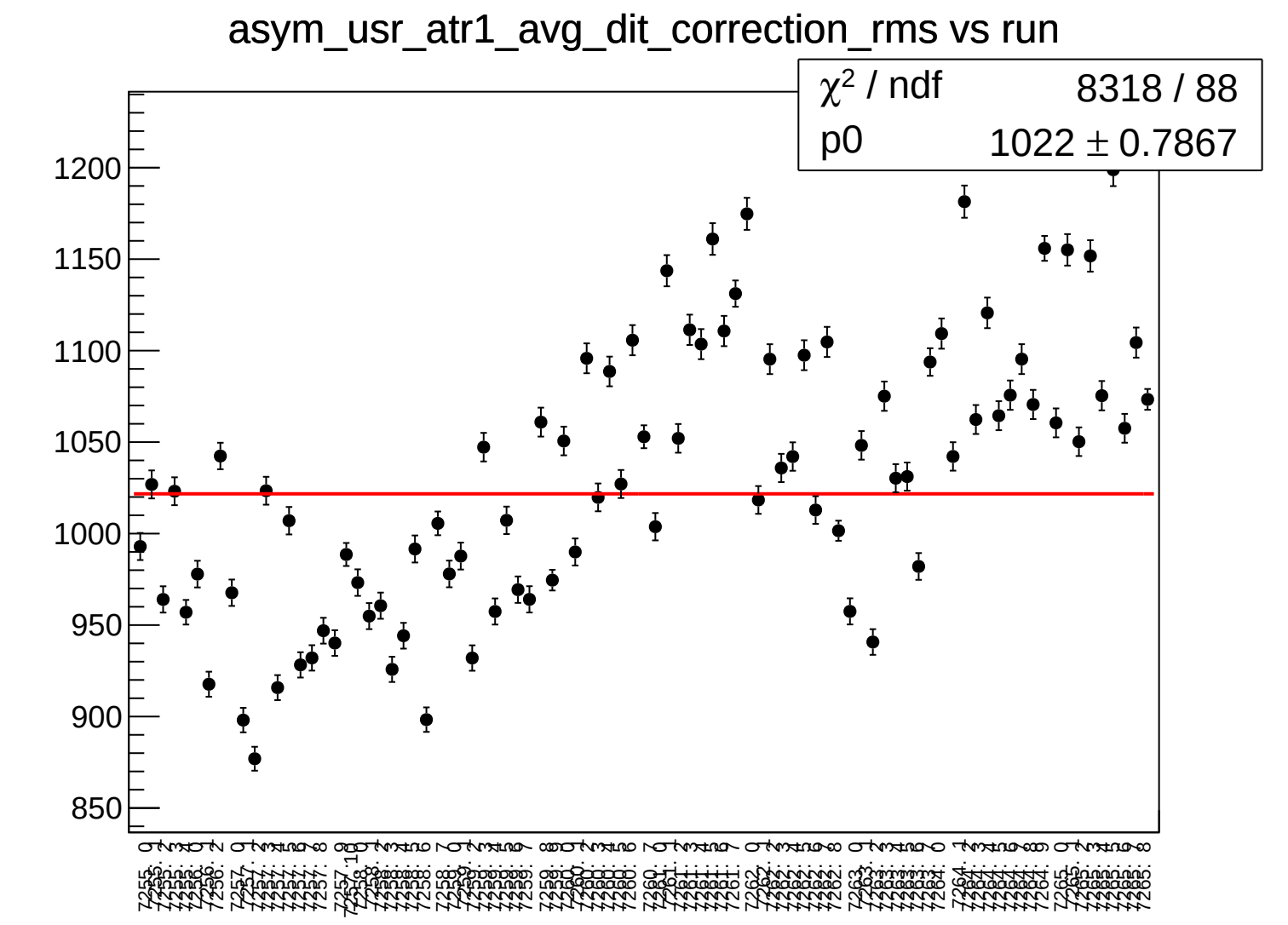

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 66.56 / 88
p0 −1574 ± 1760
pull
Entries 89
Mean −726.7
Std Dev 0

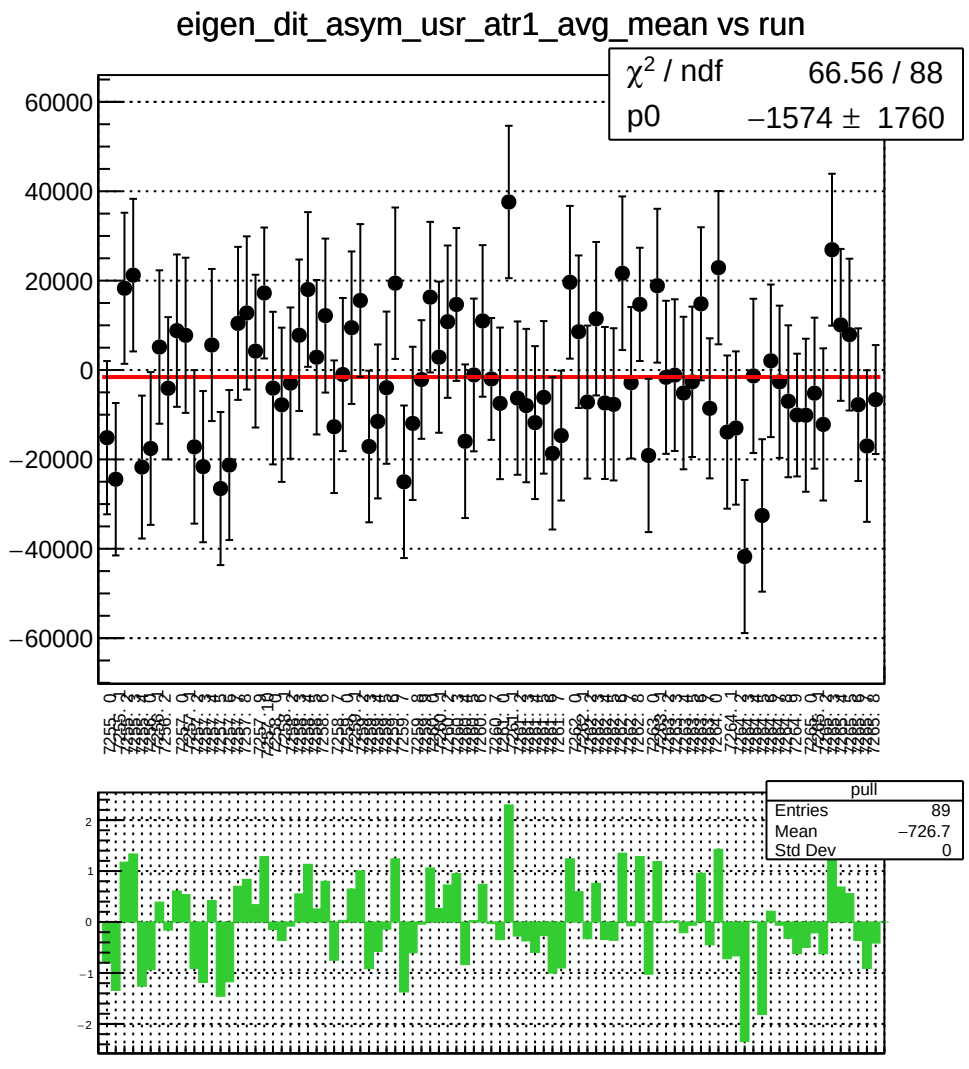

pull1D
Entries 89
Mean 0.001118
Std Dev 0.8648

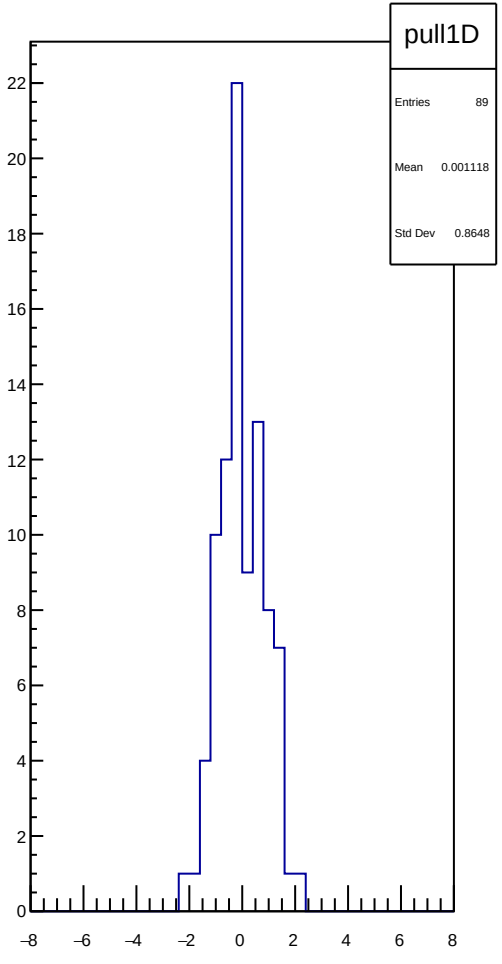

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 73.02 / 88
p0 1620 ± 1.245
1660
1650
1640
1630
1620
1610
1600
1590
1580

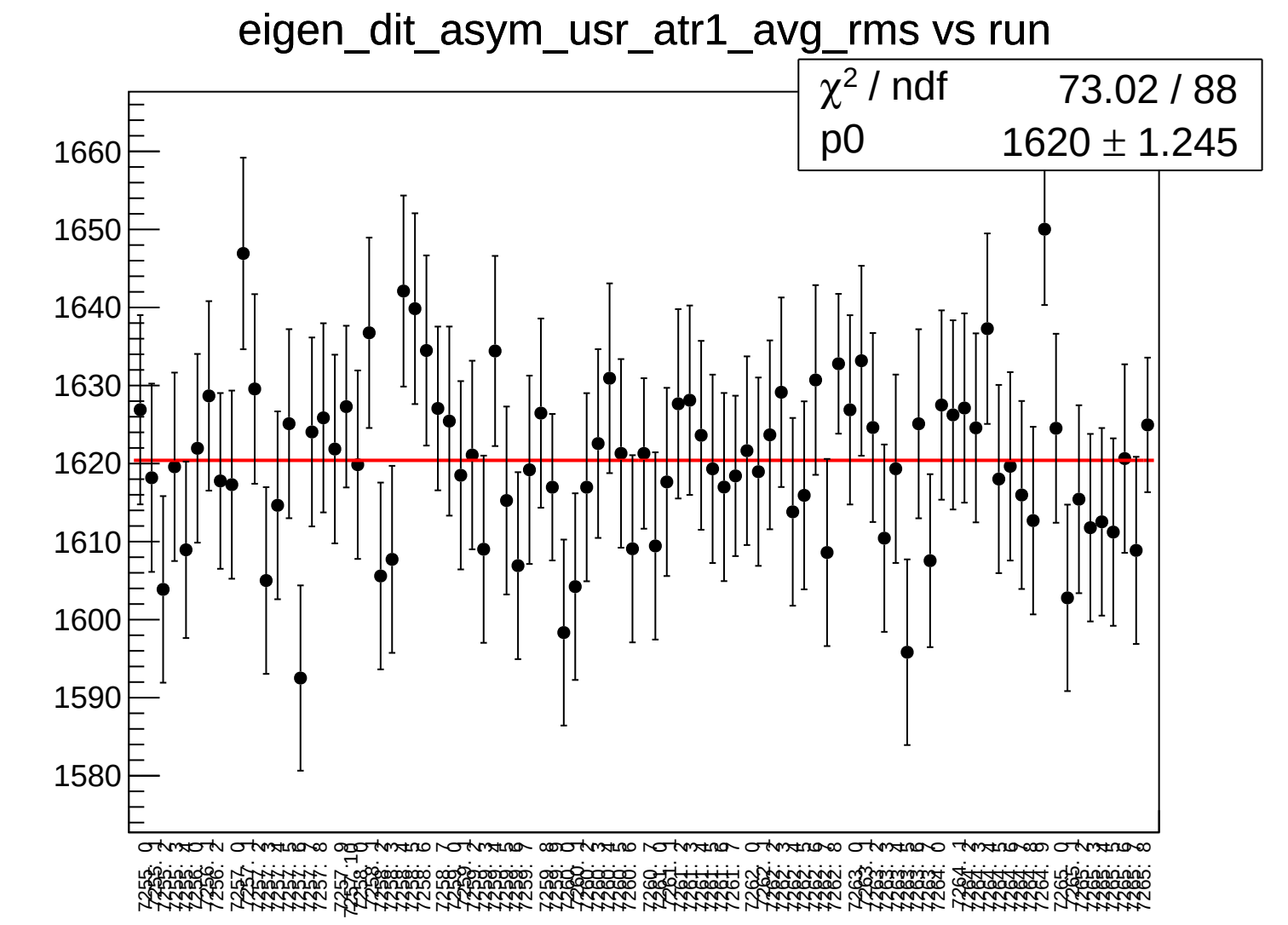

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 86.29 / 88
p0 700.1 ± 1113
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 2449
Std Dev 0
2
1
0
−1
−2
−3

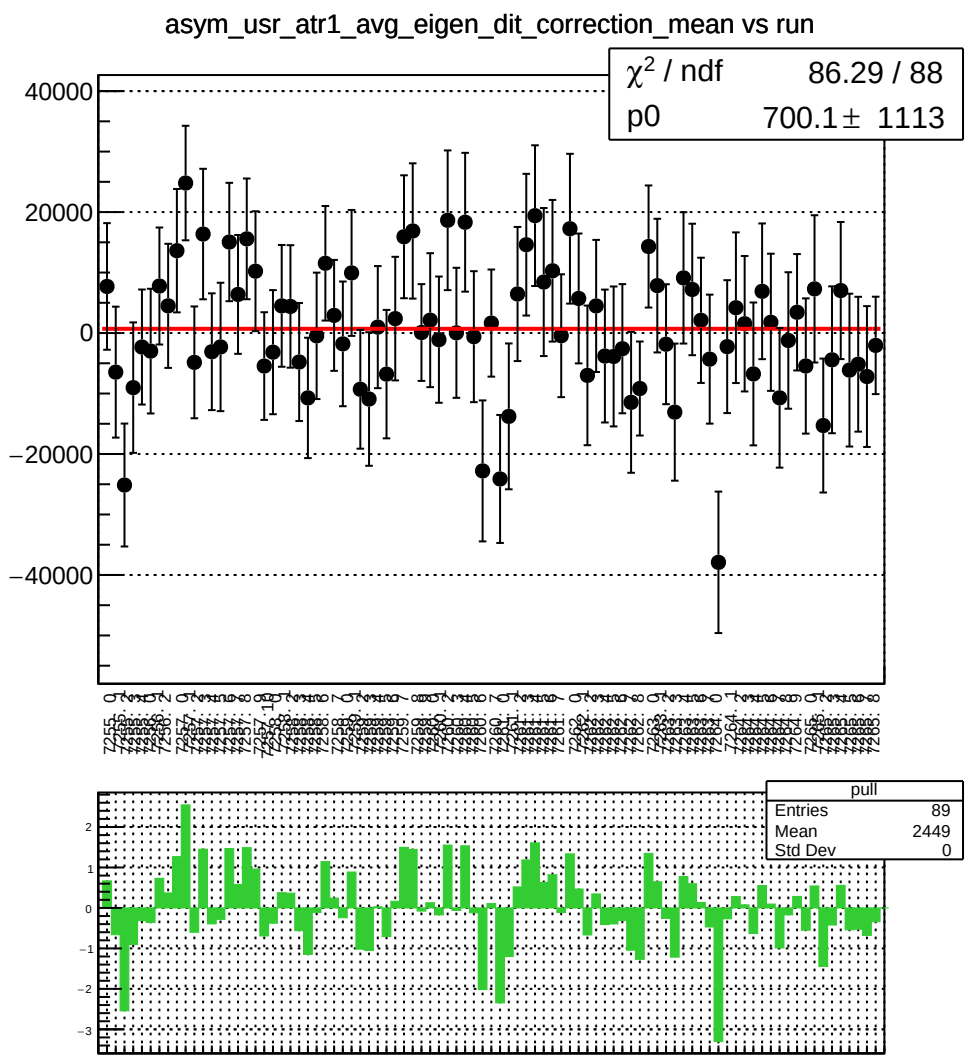

pull1D
Entries 89
Mean −0.001734
Std Dev 0.9847
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

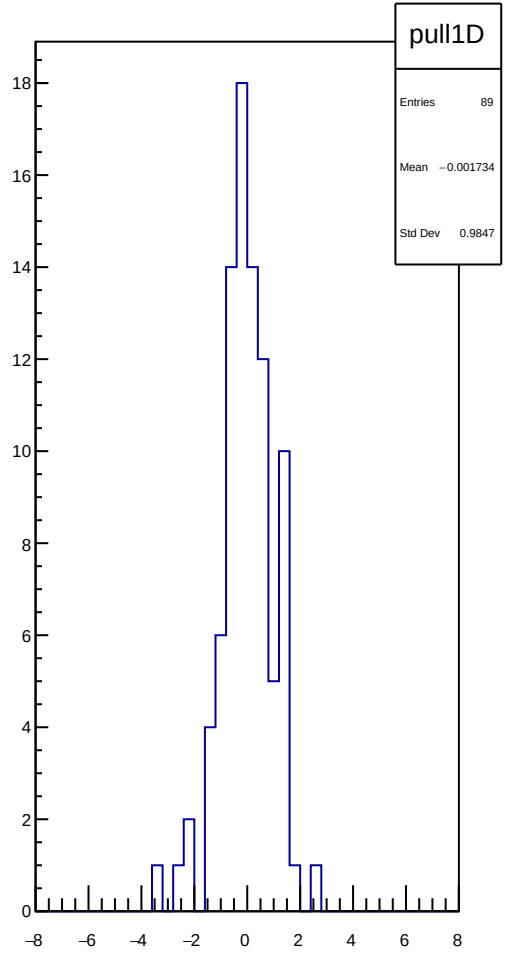

asym_usr_atr1_avg_dit_correction_rms vs run
χ^2 / ndf 8318 / 88
p0 1022 ± 0.7867
1200
1150
1100
1050
1000
950
900
850

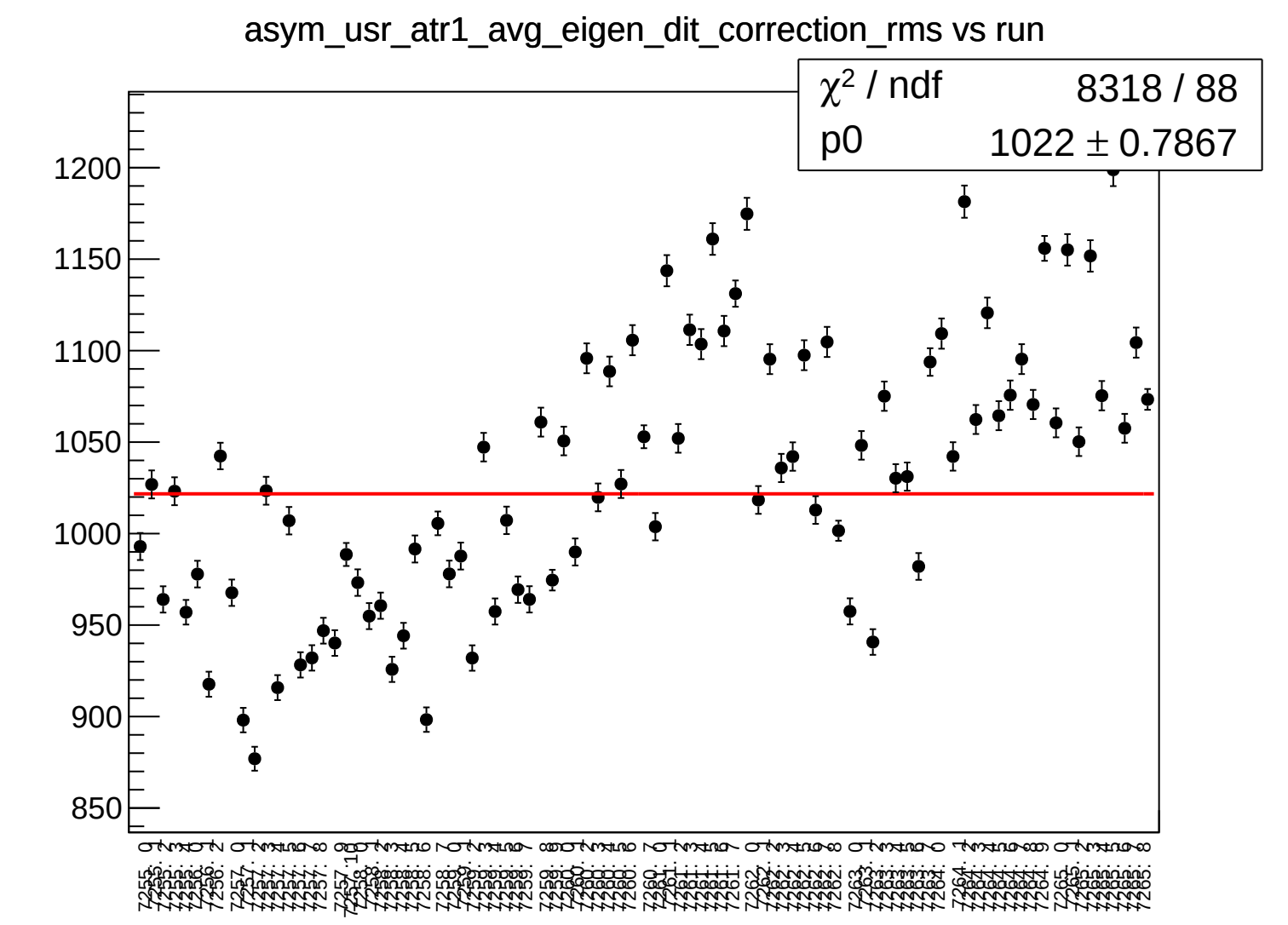

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 66.56 / 88
p0 −1574 ± 1760
pull
Entries 89
Mean −726.7
Std Dev 0

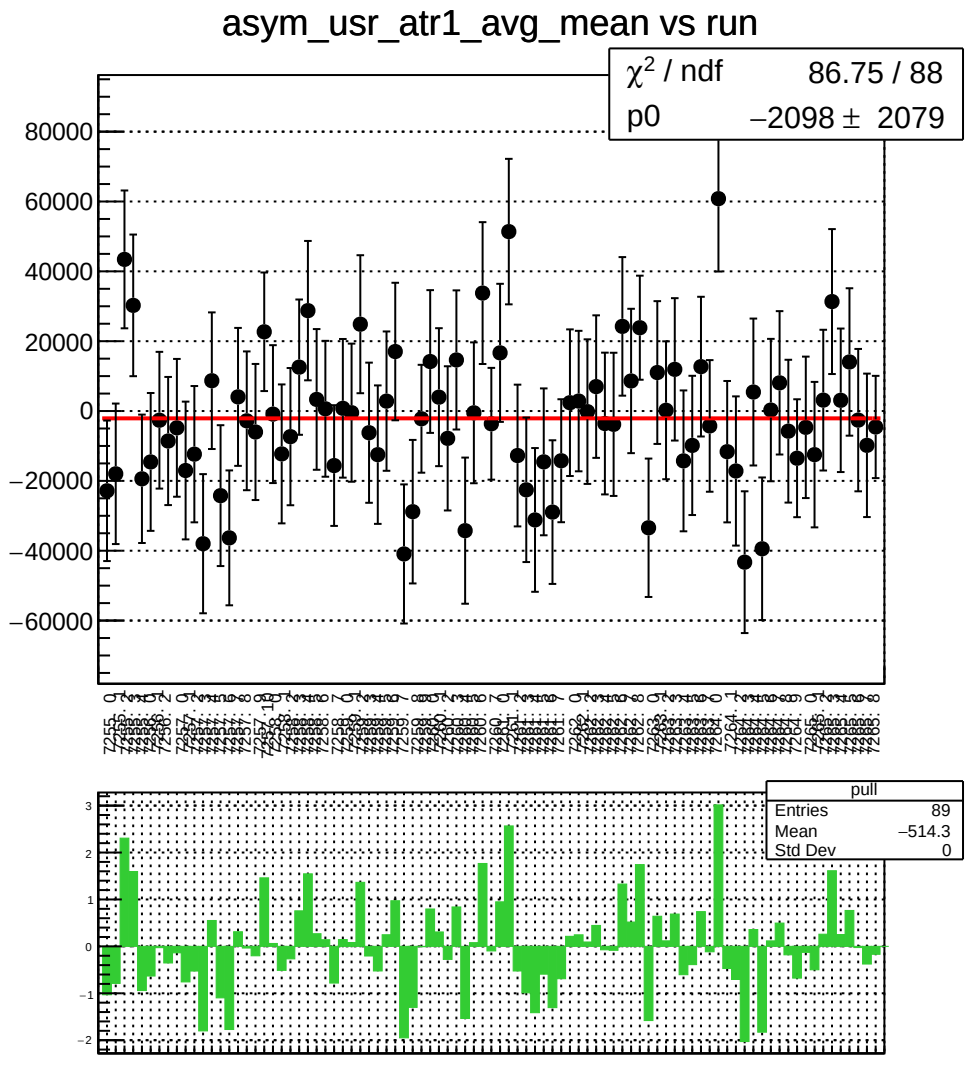

pull1D
Entries 89
Mean 0.001118
Std Dev 0.8648

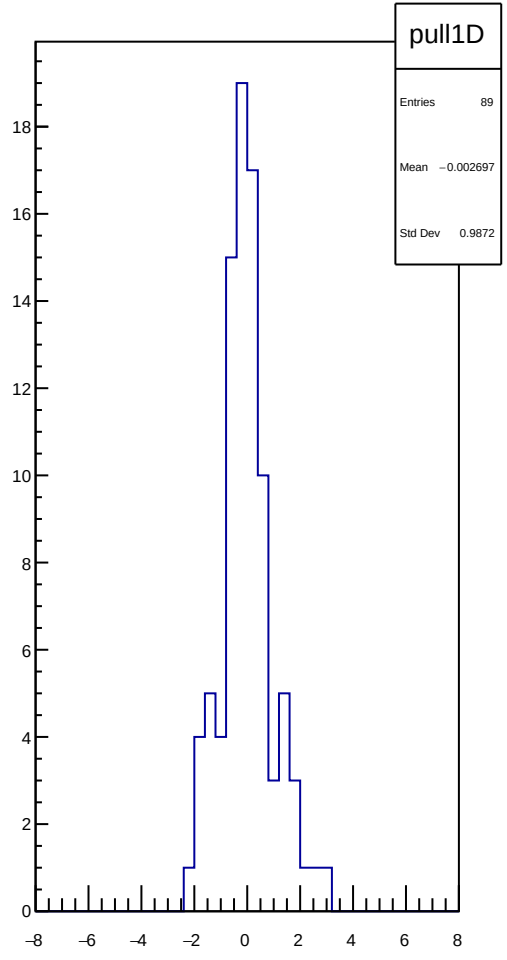

eigen_dit_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 73.02 / 88
p0 1620 ± 1.245
1660
1650
1640
1630
1620
1610
1600
1590
1580

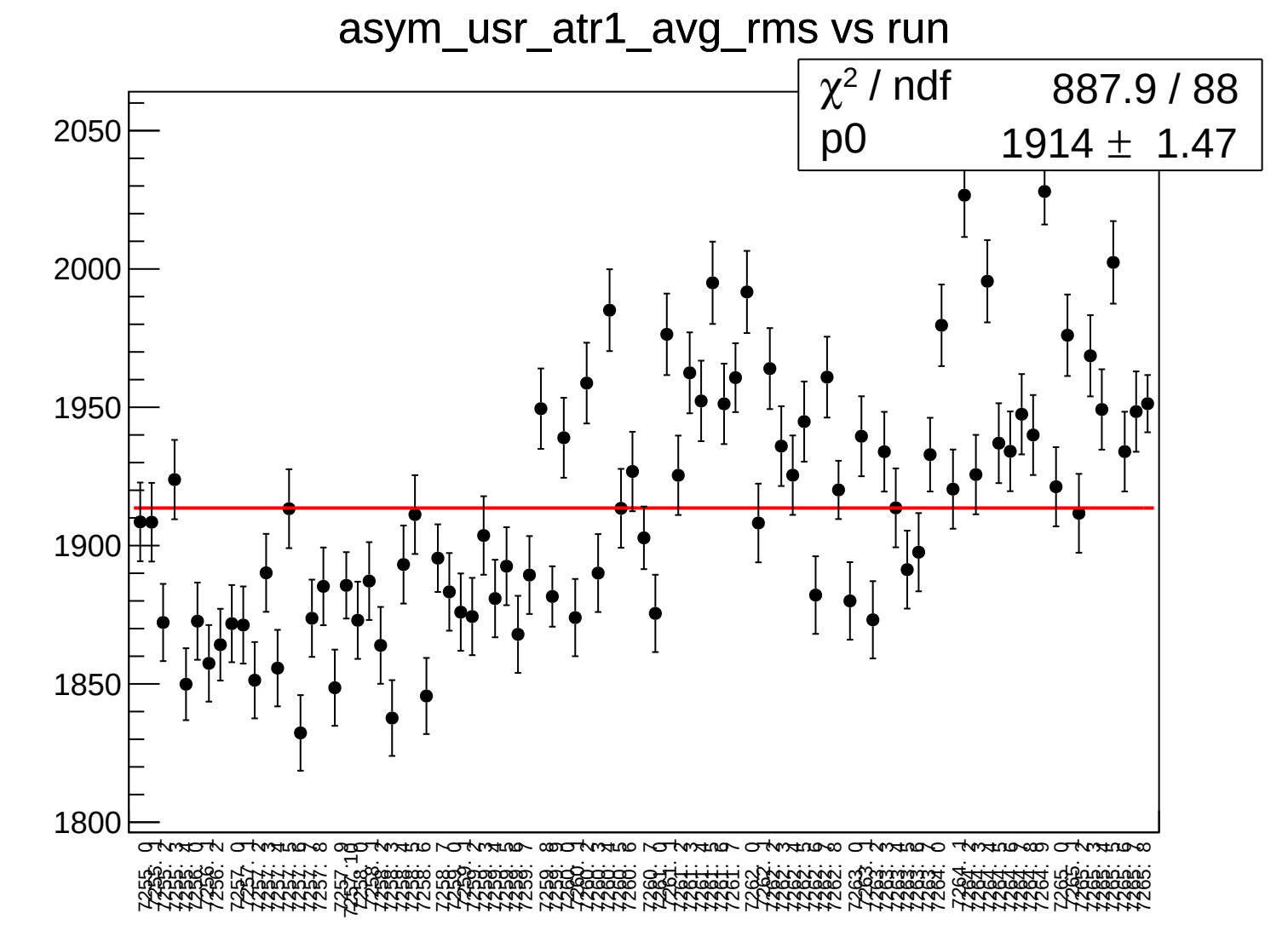

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.29 / 88
p0 700.1 ± 1113
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 2449
Std Dev 0
2
1
0
−1
−2
−3

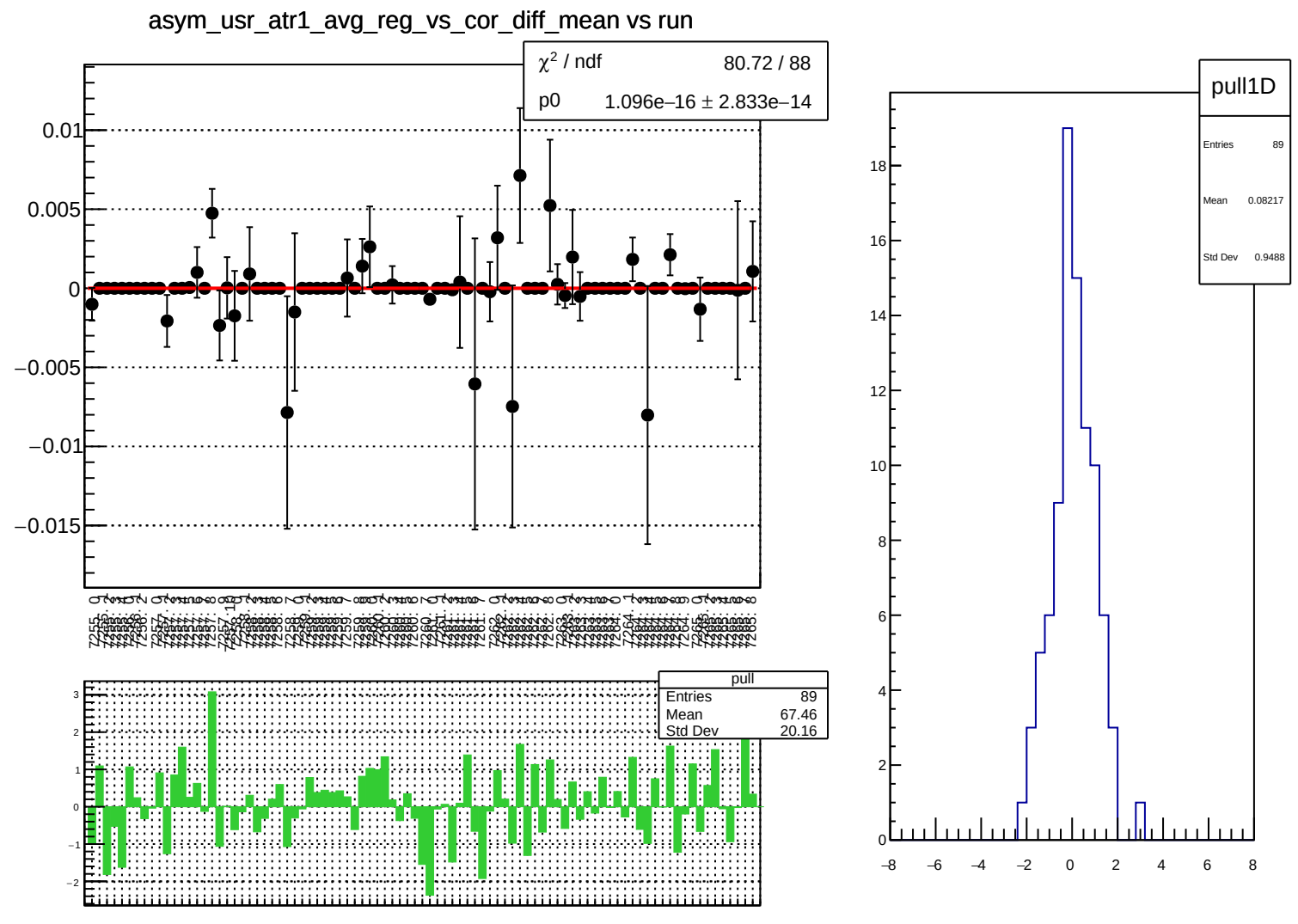

pull1D
Entries 89
Mean −0.001734
Std Dev 0.9847
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

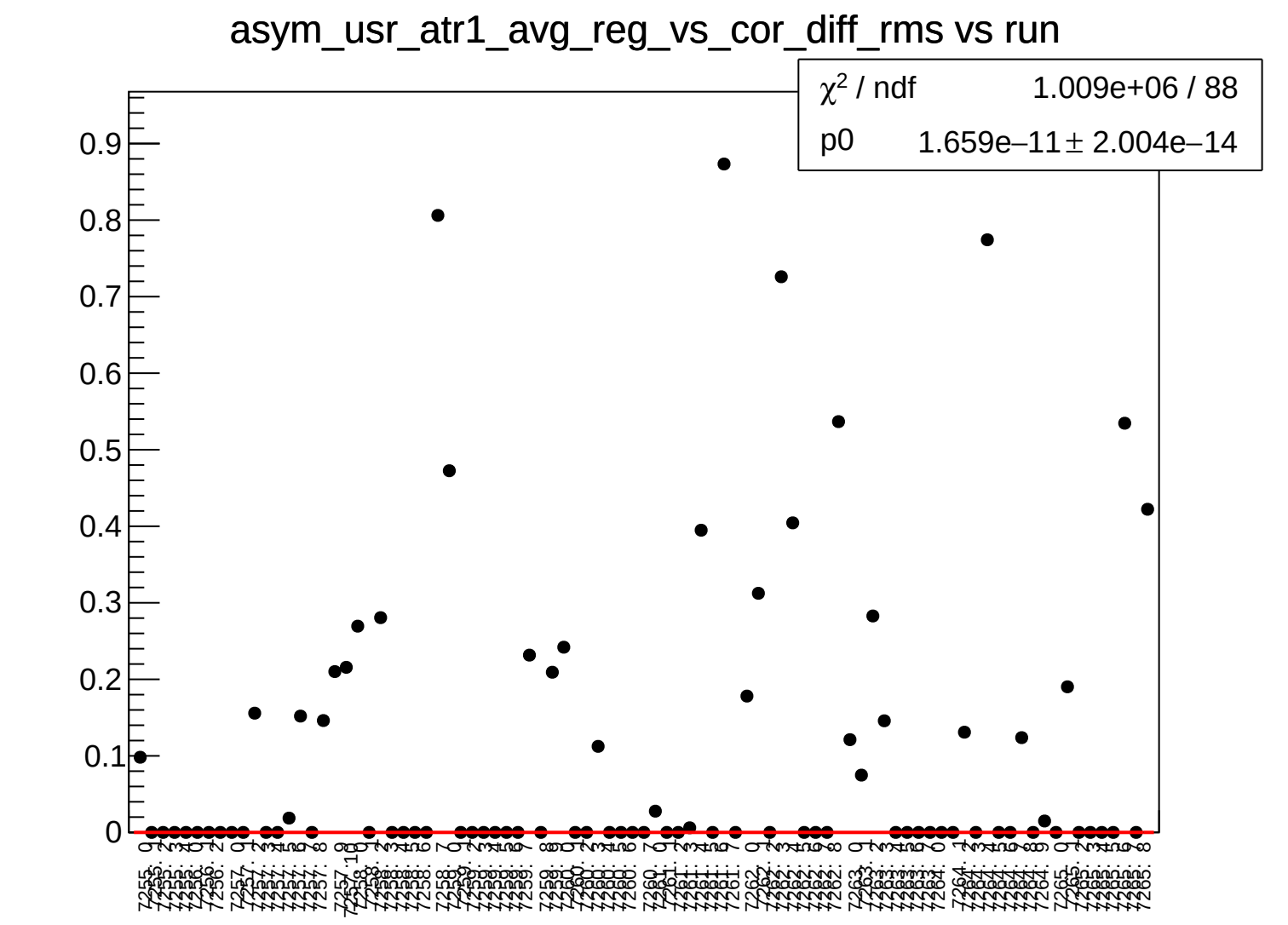

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8318 / 88
p0 1022 ± 0.7867
1200
1150
1100
1050
1000
950
900
850

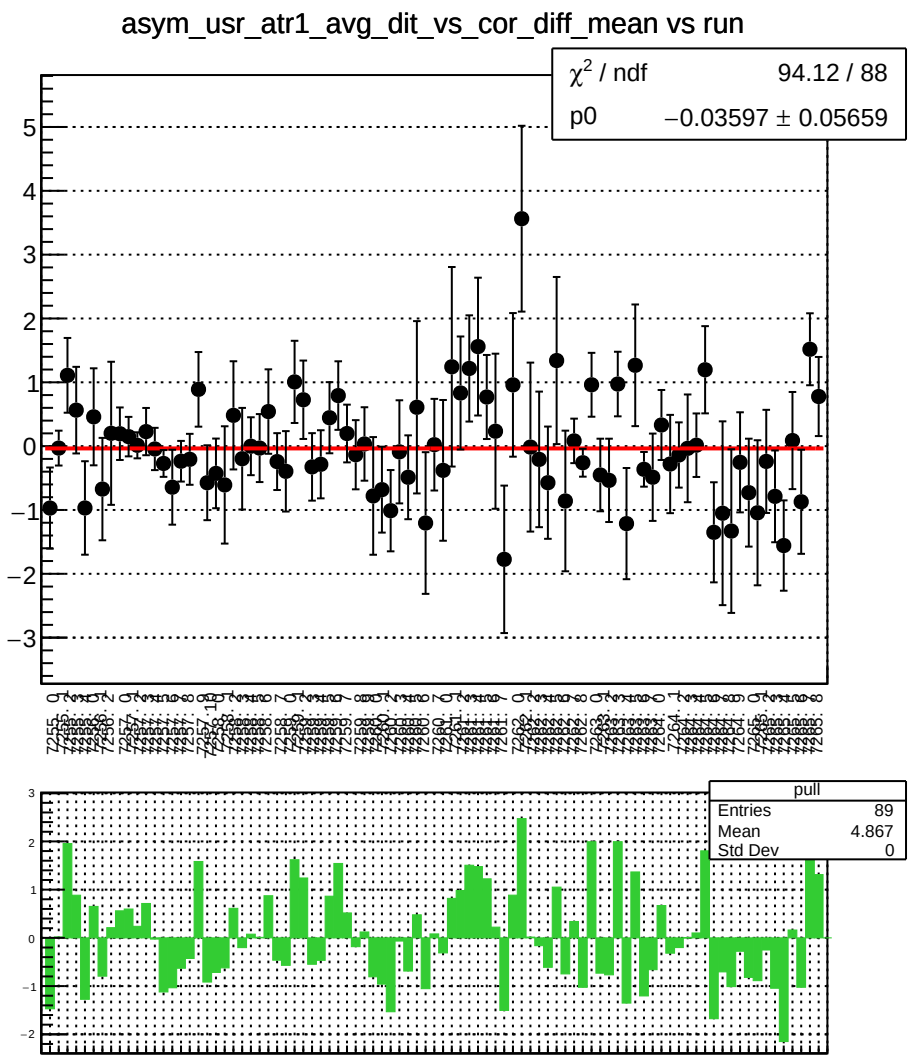

asym_usr_atr1_avg_mean vs run
χ² / ndf 86.75 / 88
p0 −2098 ± 2079
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −514.3
Std Dev 0
3
2
1
0
−1
−2

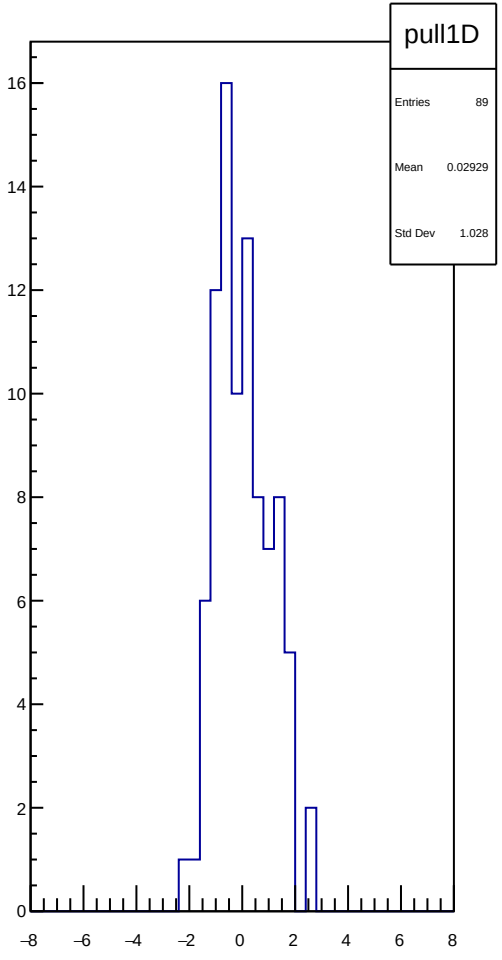

pull1D
Entries 89
Mean −0.002697
Std Dev 0.9872
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

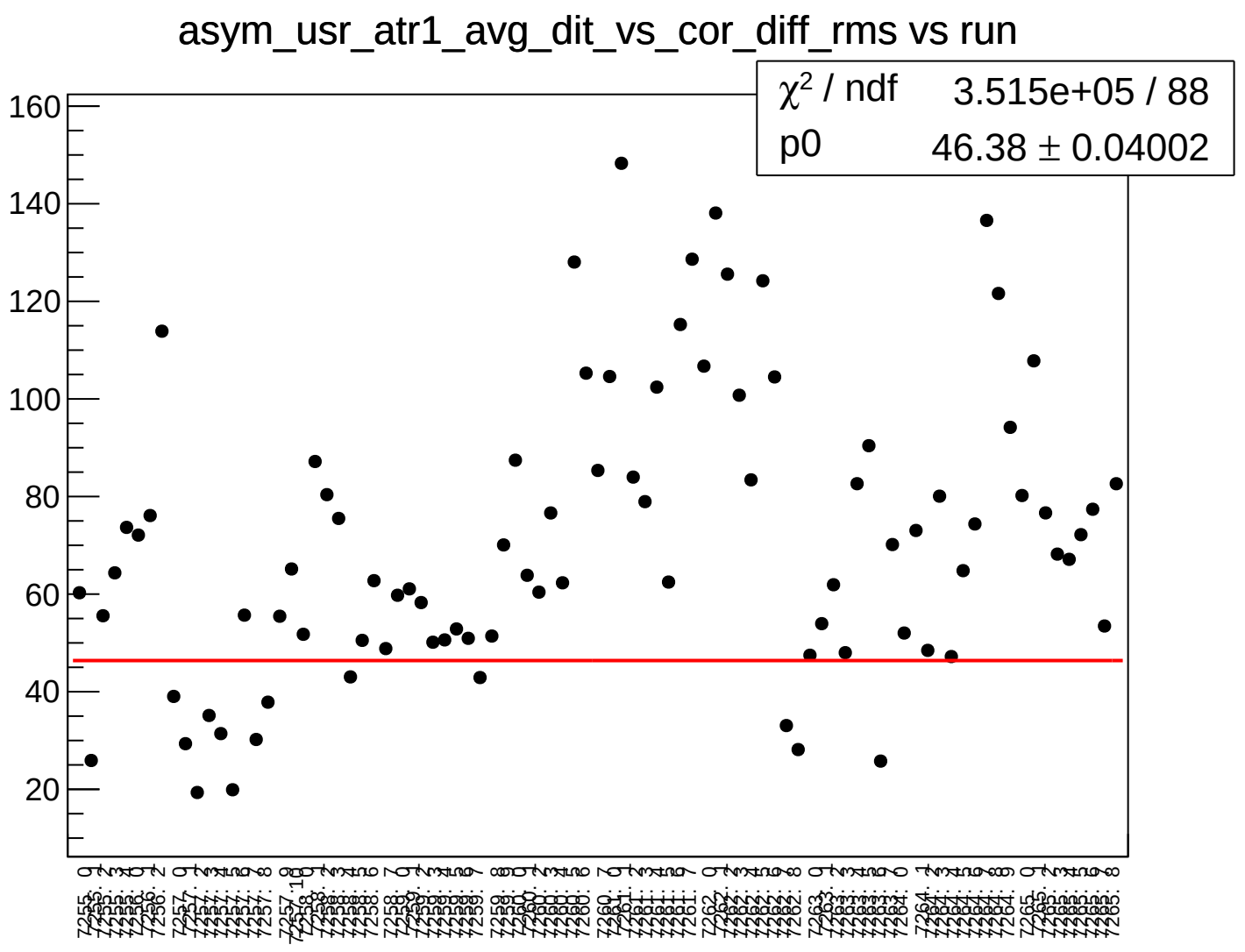

asym_usr_atr1_avg_rms vs run
χ^2 / ndf 887.9 / 88
p0 1914 ± 1.47
2050
2000
1950
1900
1850
1800

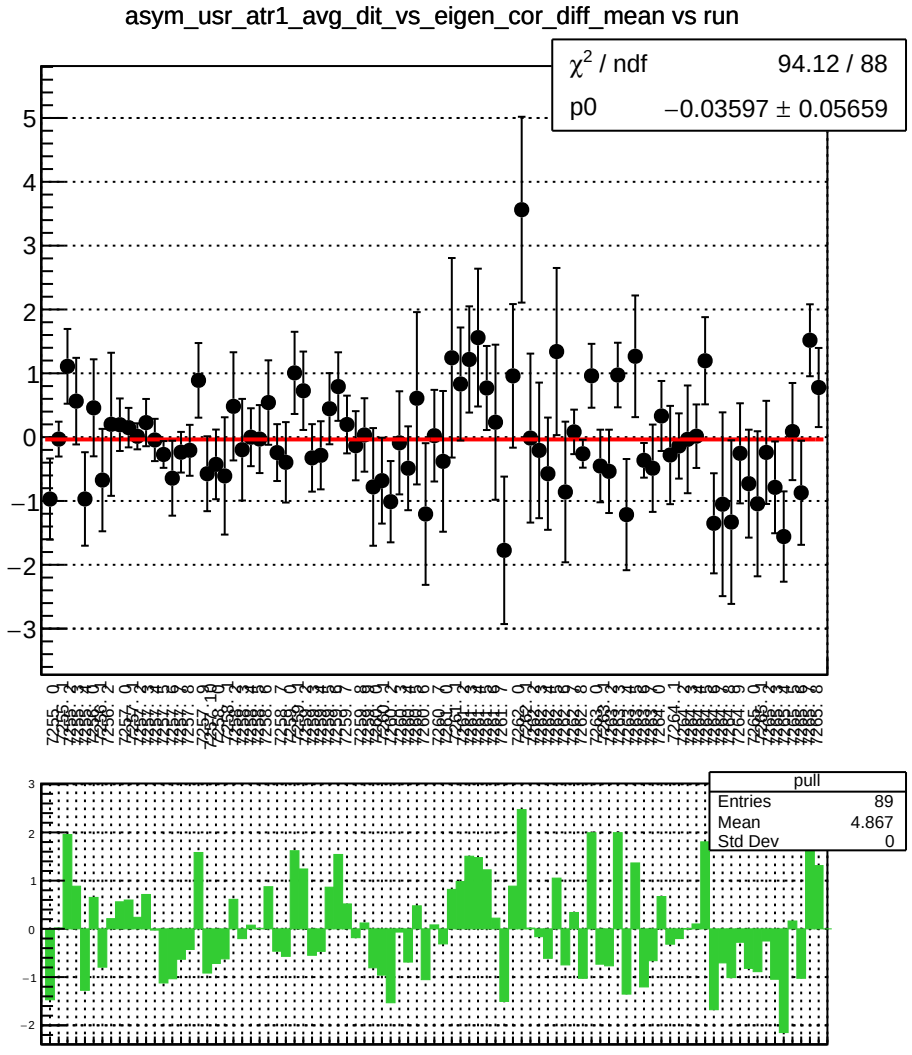

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.72 / 88
p0 1.096e−16 ± 2.833e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 67.46
Std Dev 20.16
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.08217
Std Dev 0.9488
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

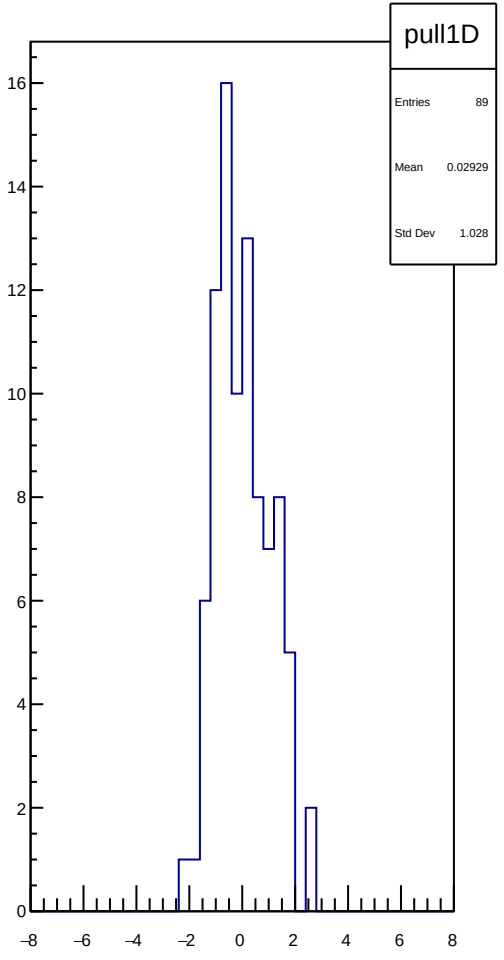

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.009e+06 / 88
p0 1.659e−11 ± 2.004e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

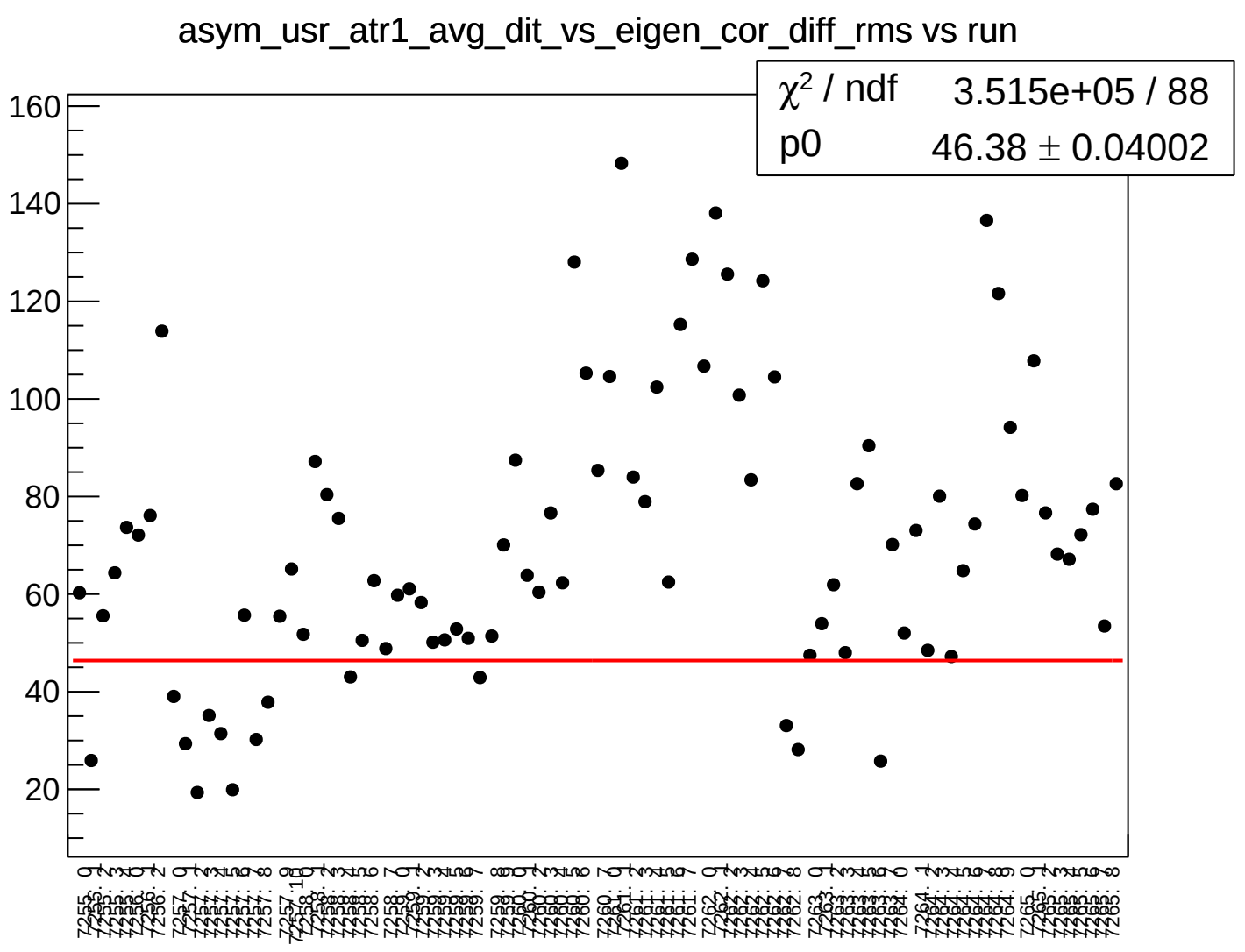

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.12 / 88
p0 −0.03597 ± 0.05659
pull
Entries 89
Mean 4.867
Std Dev 0

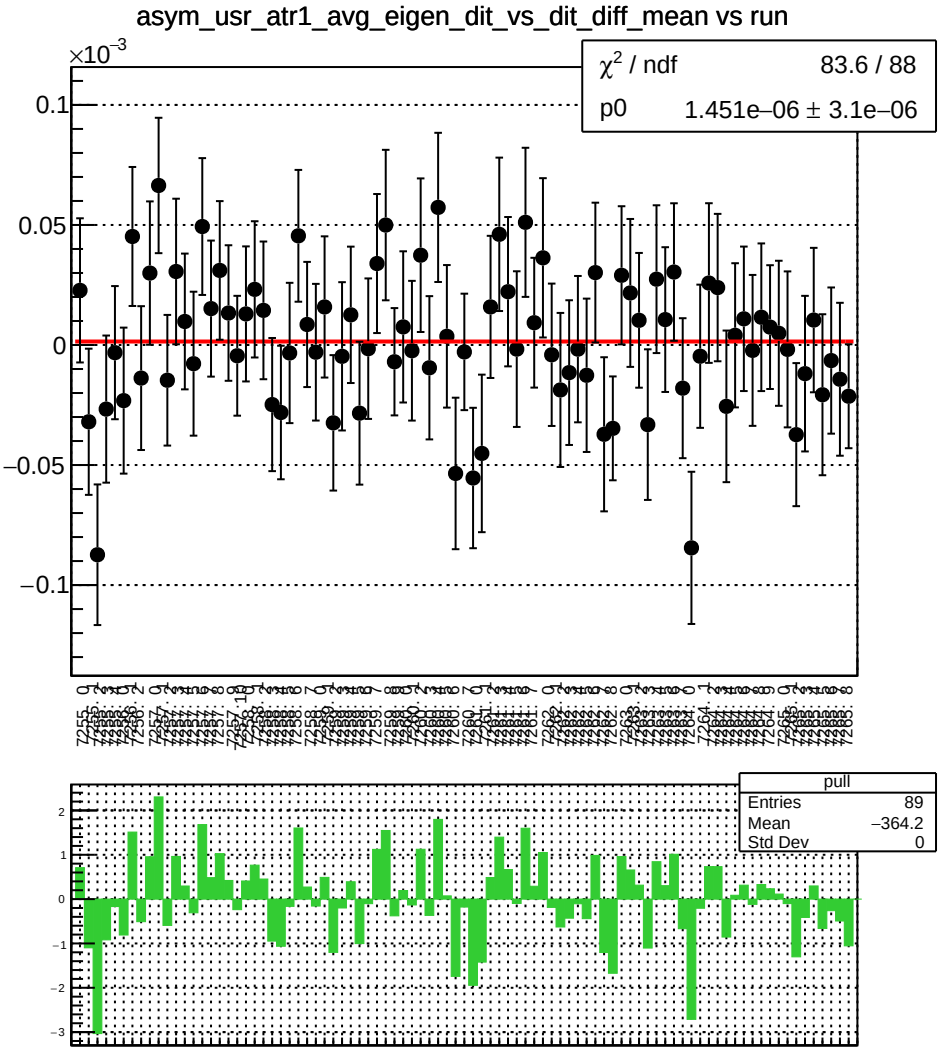

pull1D
Entries 89
Mean 0.02929
Std Dev 1.028

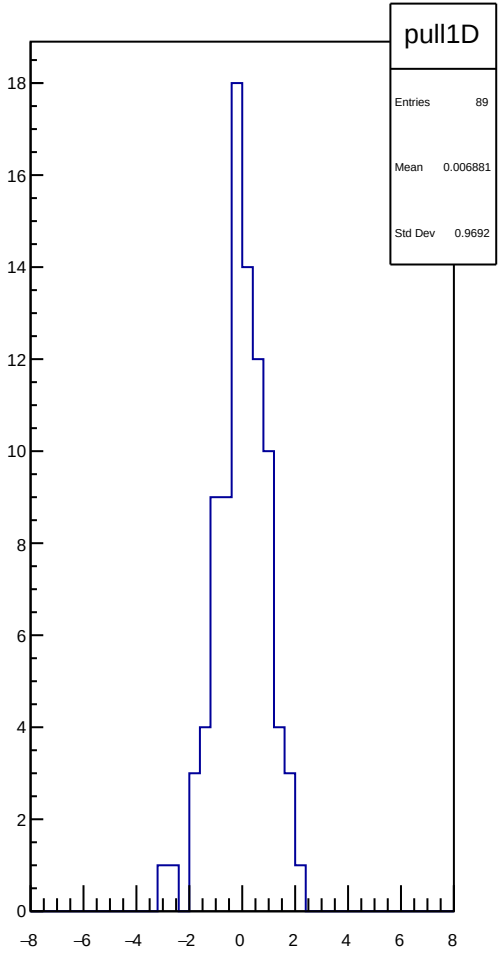

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.515e+05 / 88
p0 46.38 ± 0.04002
160
140
120
100
80
60
40
20

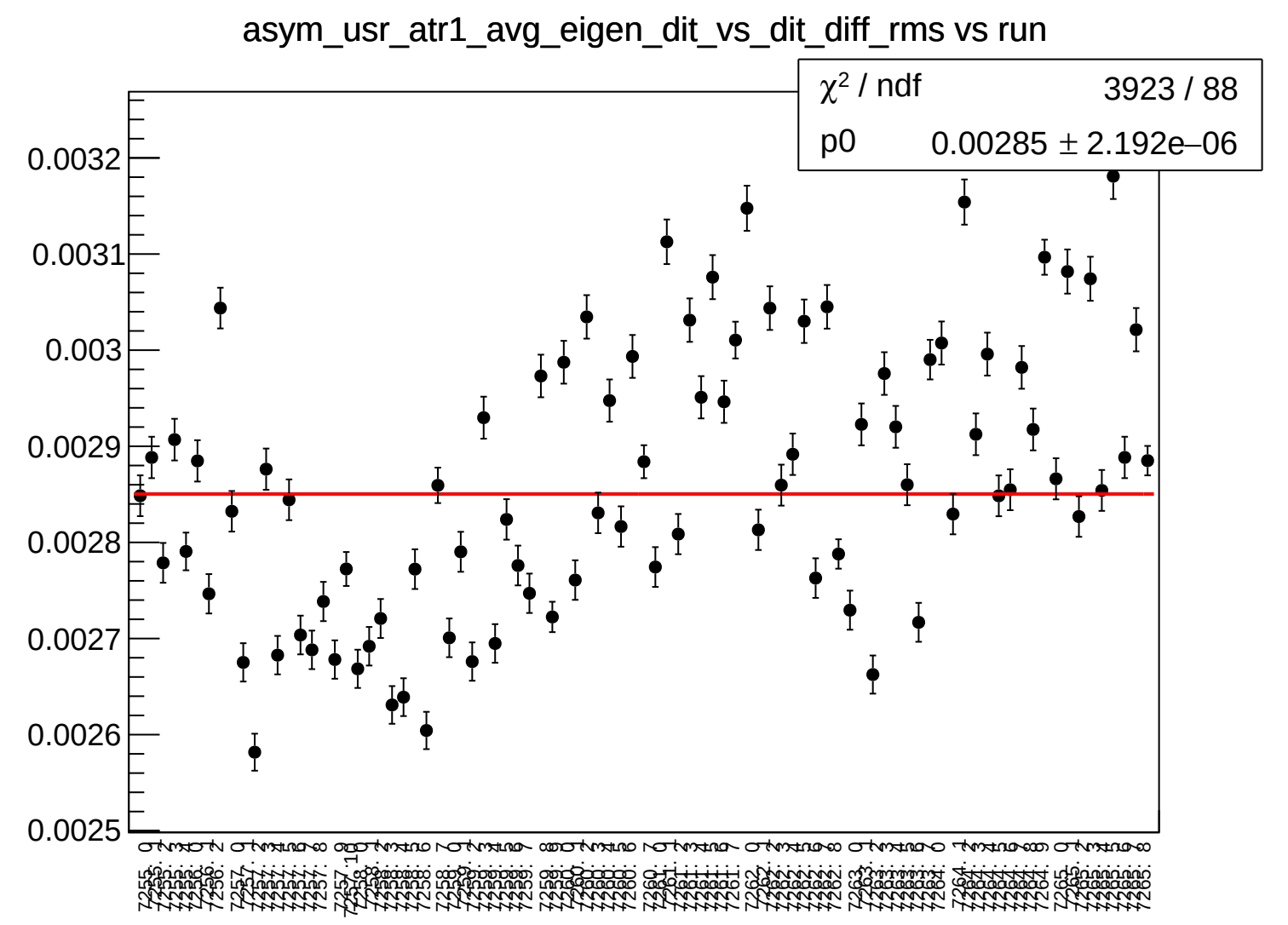

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.12 / 88
p0 −0.03597 ± 0.05659
pull
Entries 89
Mean 4.867
Std Dev 0

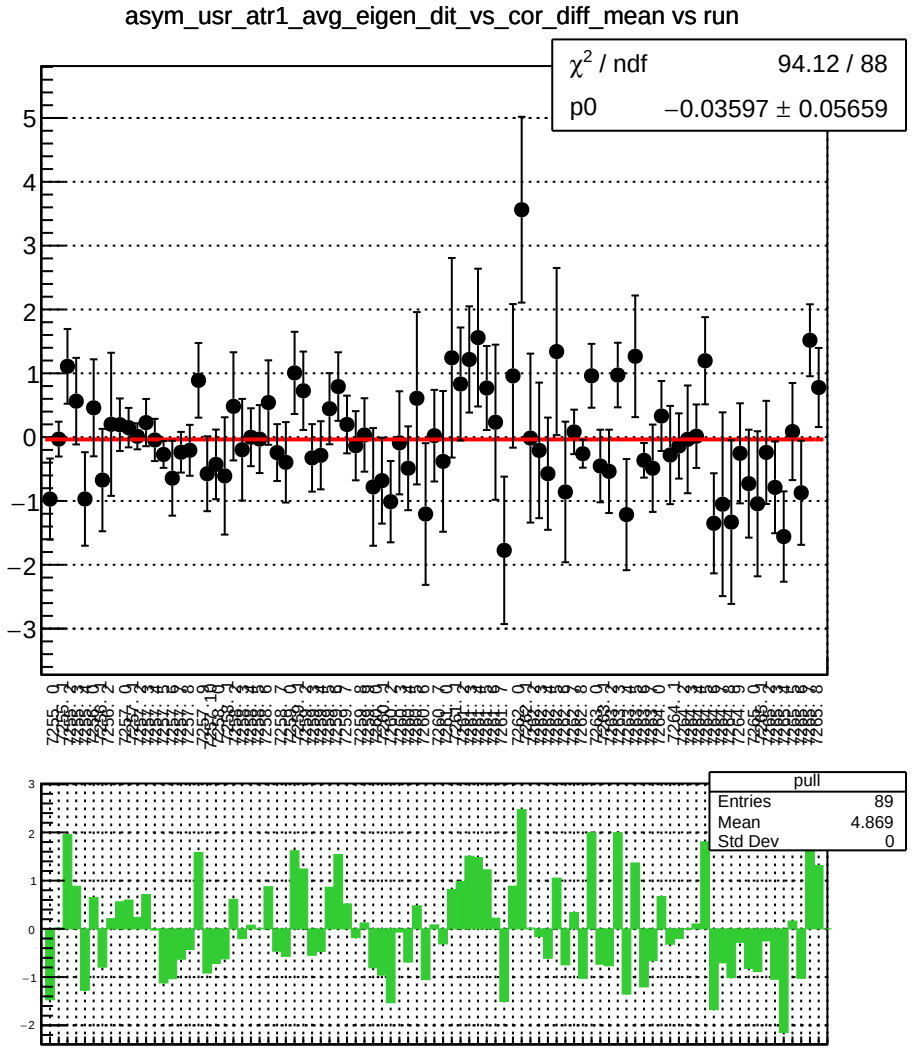

pull1D
Entries 89
Mean 0.02929
Std Dev 1.028

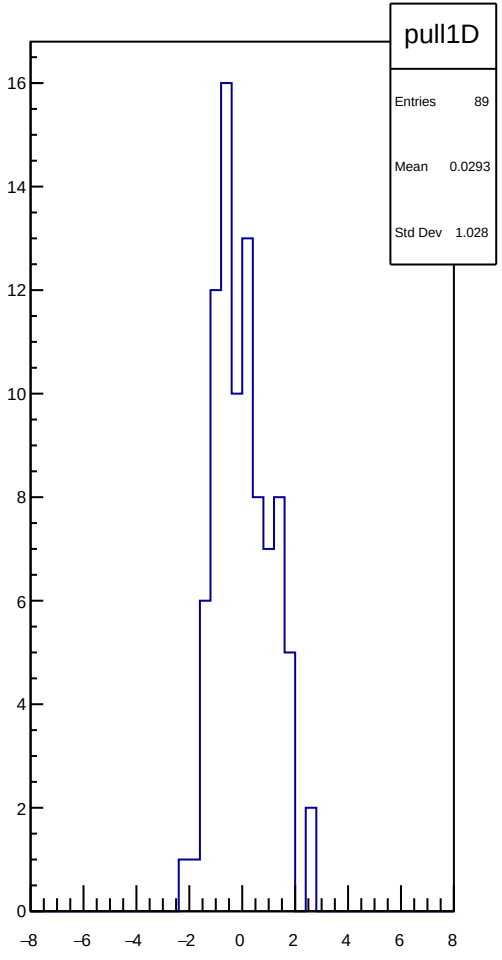

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.515e+05 / 88
p0 46.38 ± 0.04002
160
140
120
100
80
60
40
20

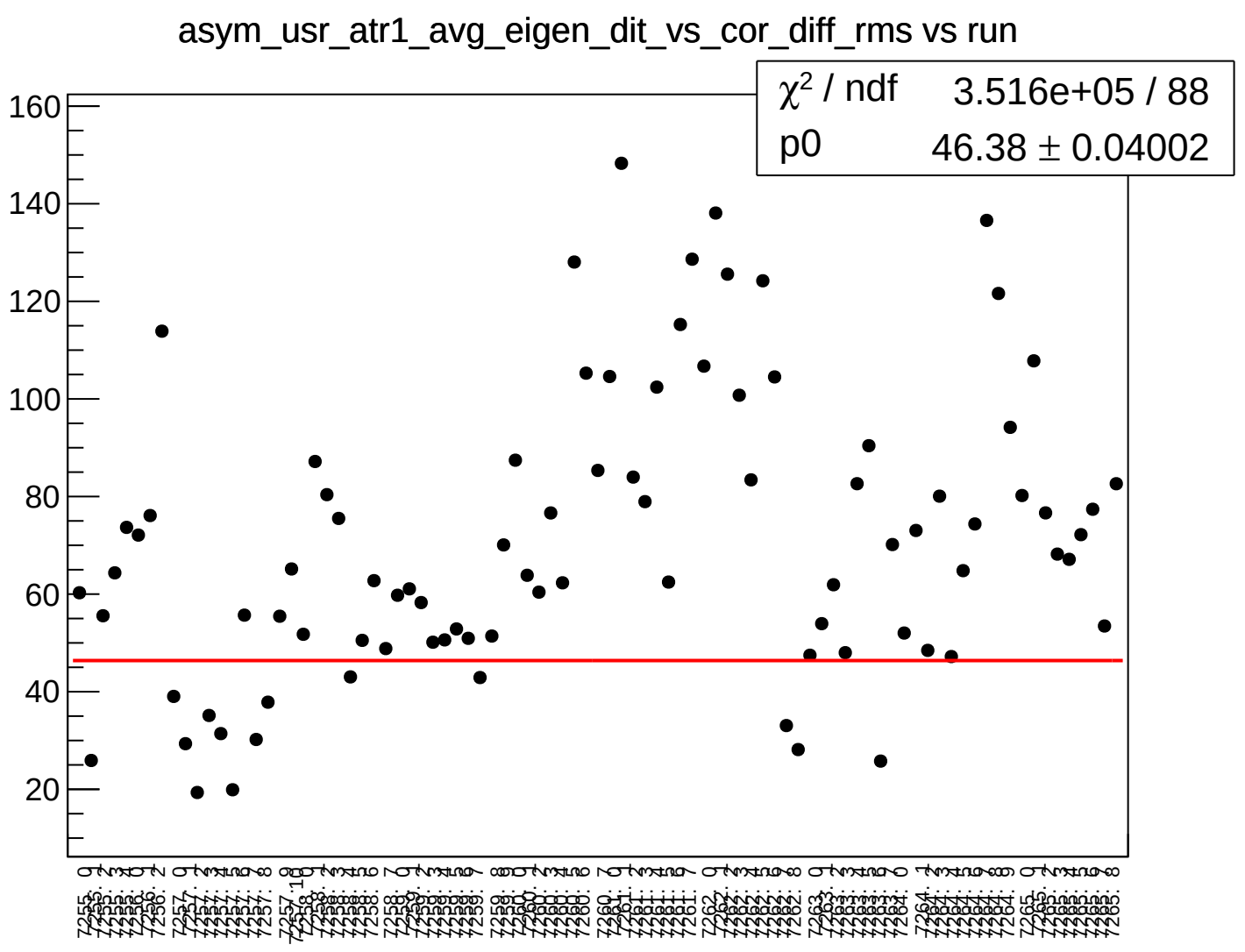

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.6 / 88
p0 1.451e–06 ± 3.1e–06
0.1
0.05
0
–0.05
–0.1
pull
Entries 89
Mean –364.2
Std Dev 0
2
1
0
–1
–2
–3

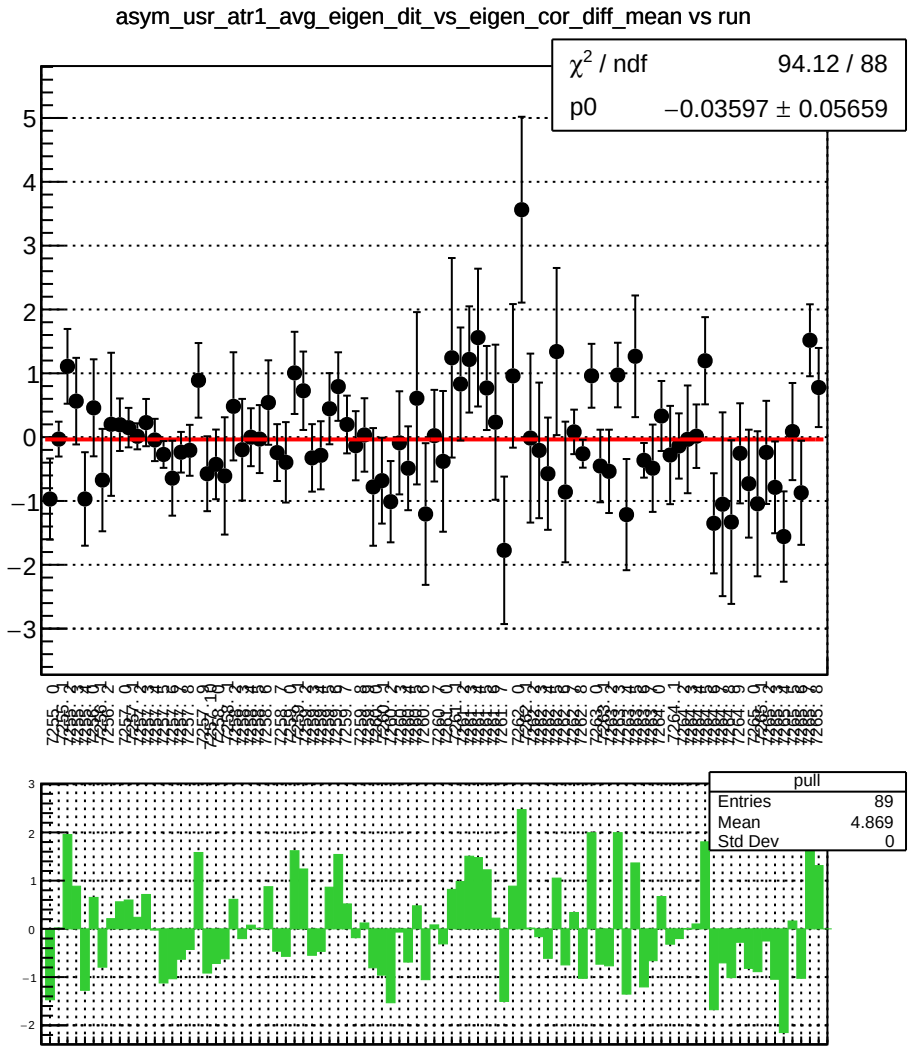

pull1D
Entries 89
Mean 0.006881
Std Dev 0.9692
18
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

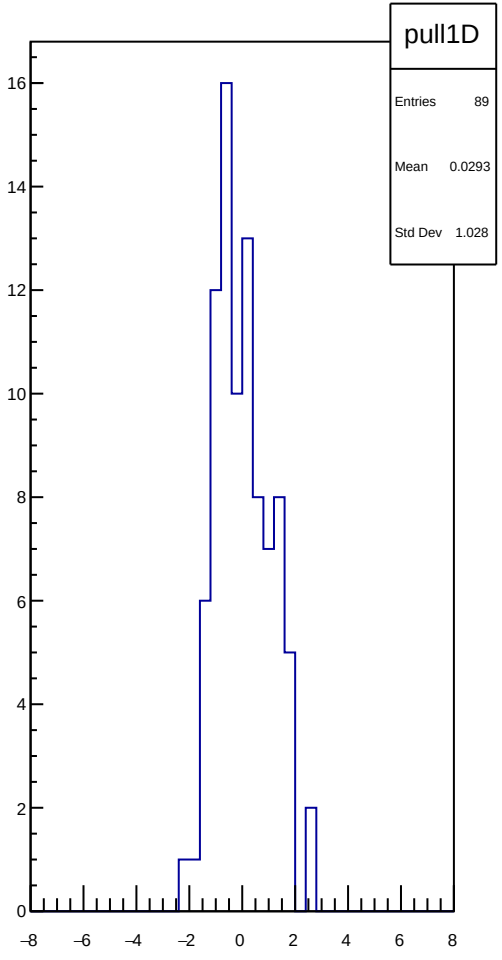

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3923 / 88
p0 0.00285 ± 2.192e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025

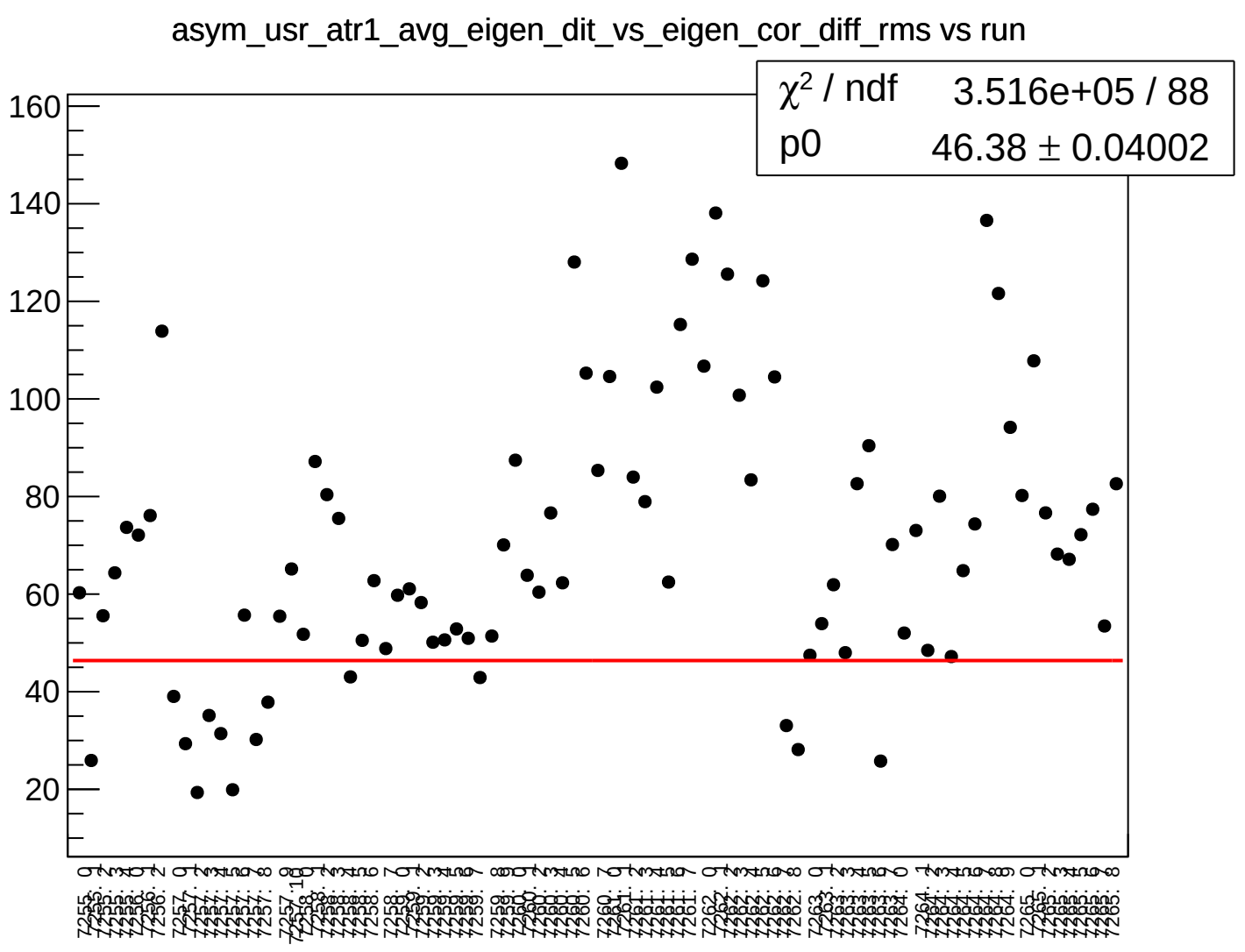

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.12 / 88
p0 −0.03597 ± 0.05659
pull
Entries 89
Mean 4.869
Std Dev 0

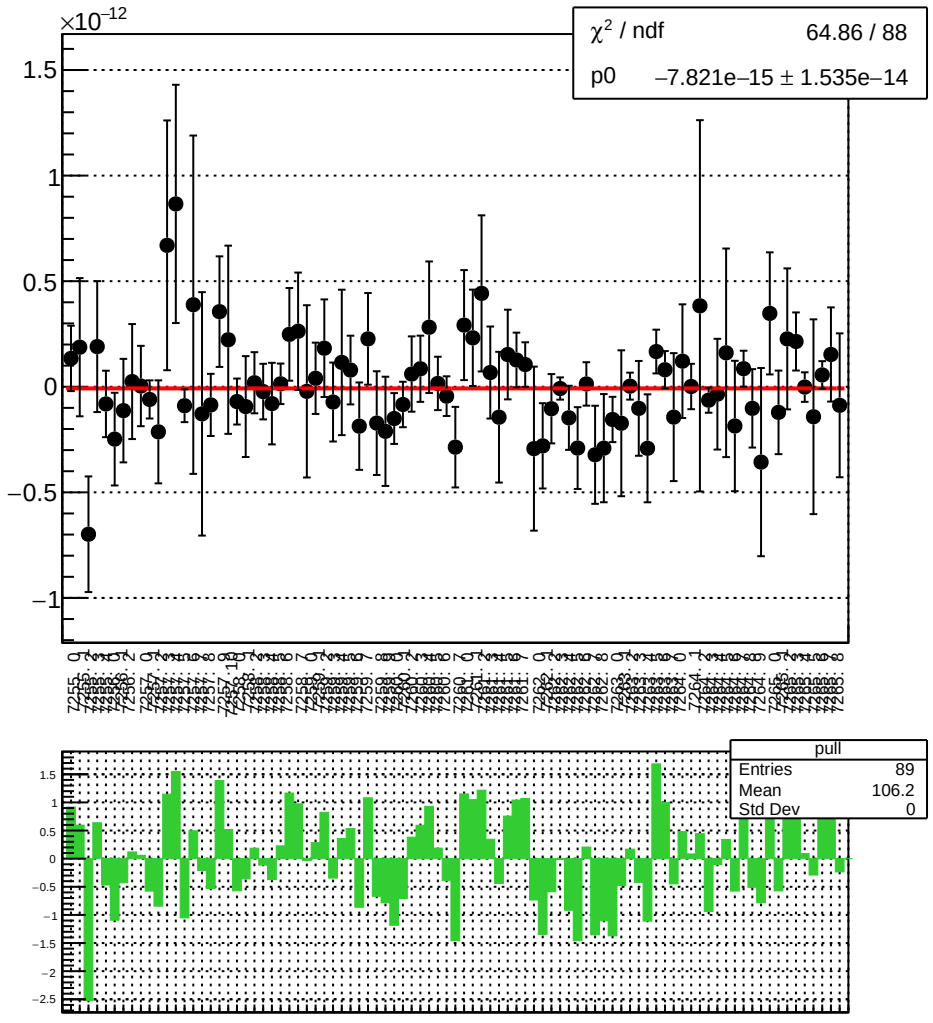

pull1D
Entries 89
Mean 0.0293
Std Dev 1.028

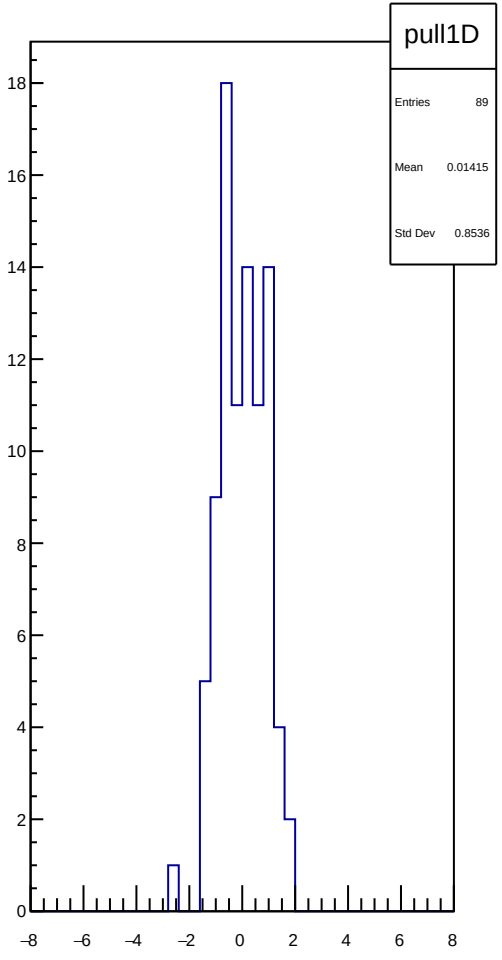

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.516e+05 / 88
p0 46.38 ± 0.04002
160
140
120
100
80
60
40
20

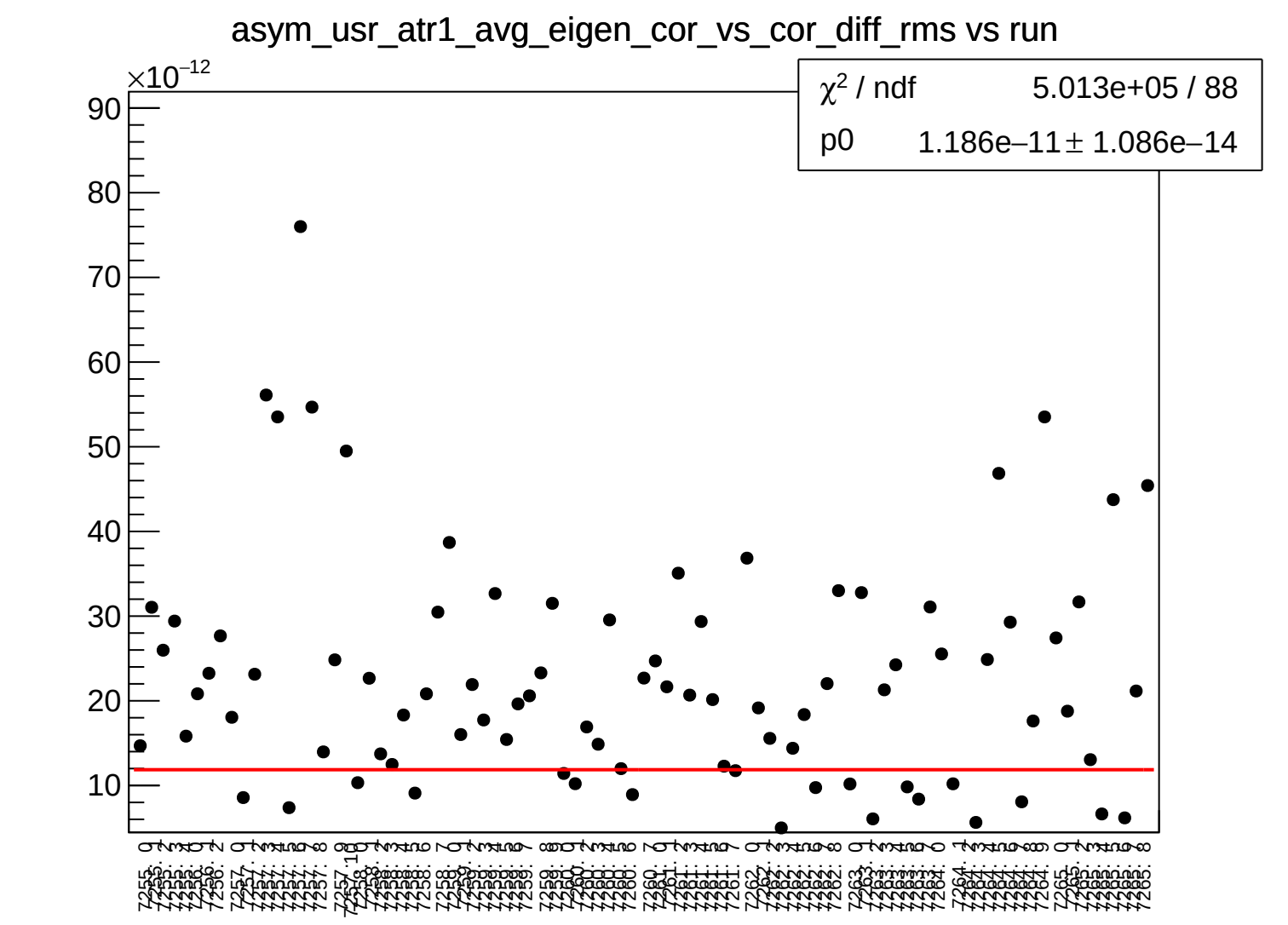

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.12 / 88
p0 −0.03597 ± 0.05659
pull
Entries 89
Mean 4.869
Std Dev 0

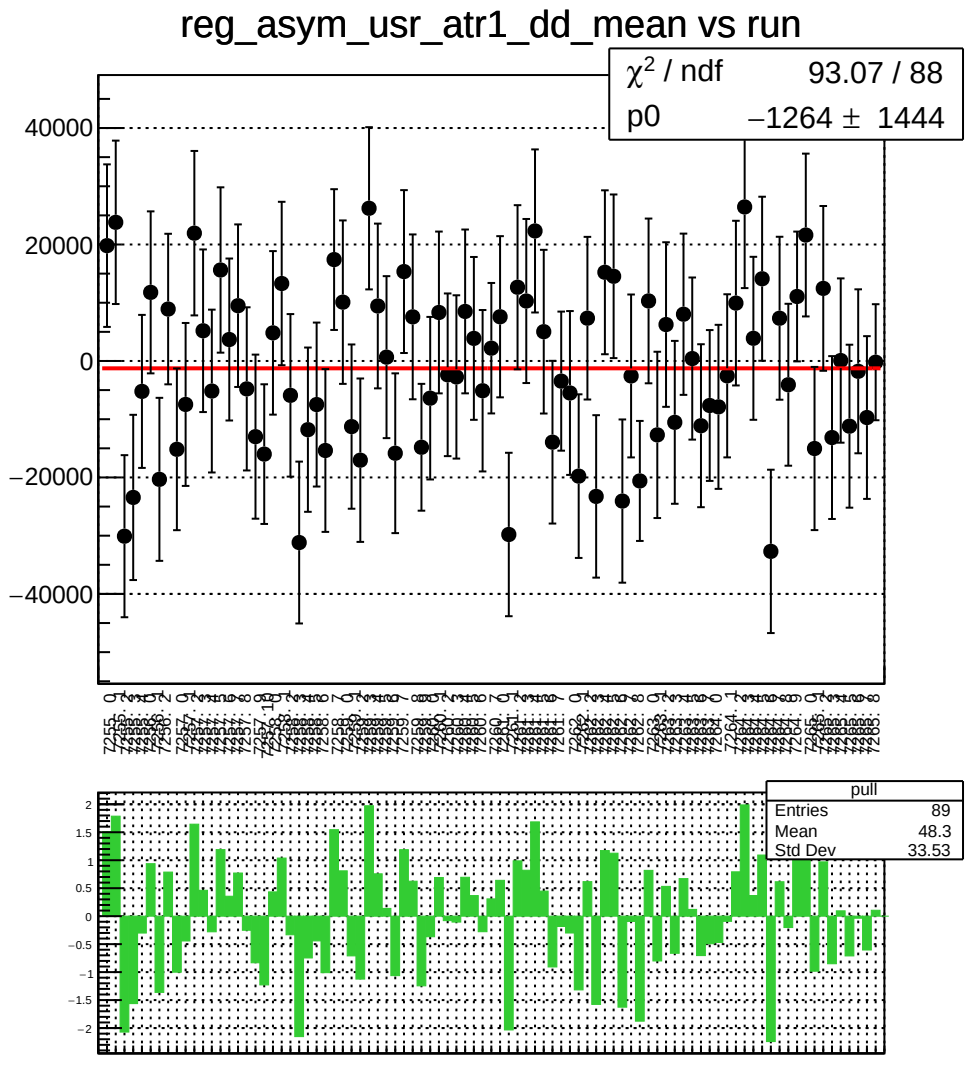

pull1D
Entries 89
Mean 0.0293
Std Dev 1.028

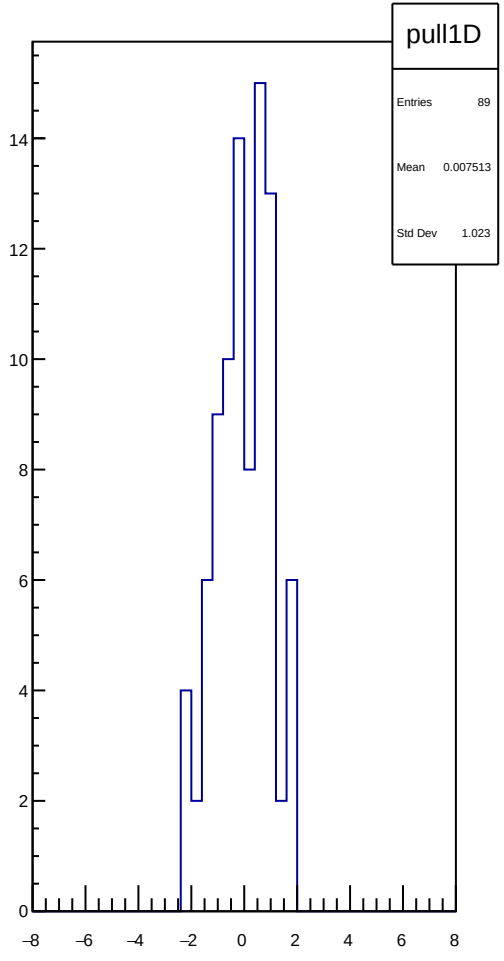

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.516e+05 / 88
p0 46.38 ± 0.04002
160
140
120
100
80
60
40
20

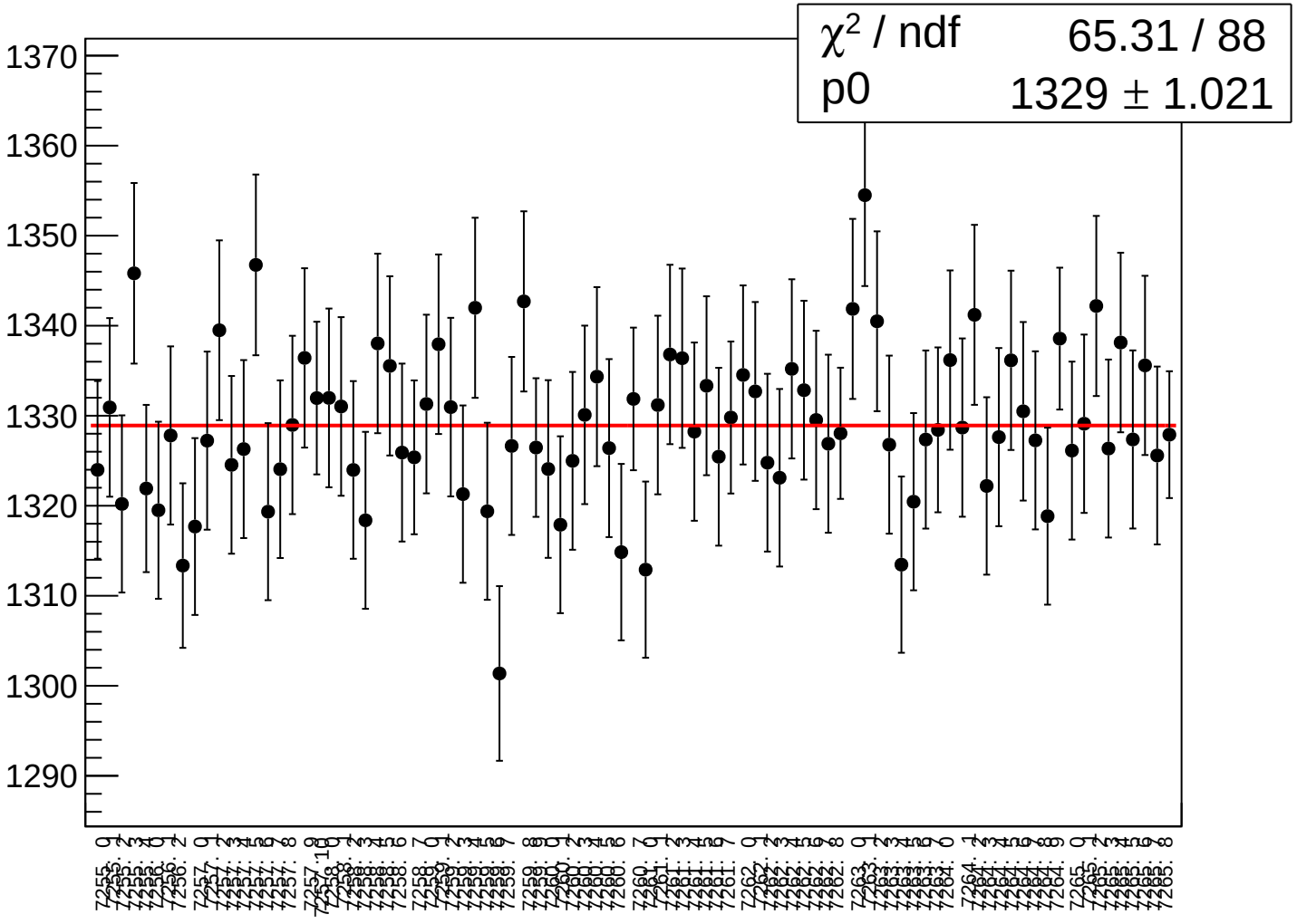

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.86 / 88
p0 −7.821e−15 ± 1.535e−14
pull
Entries 89
Mean 106.2
Std Dev 0

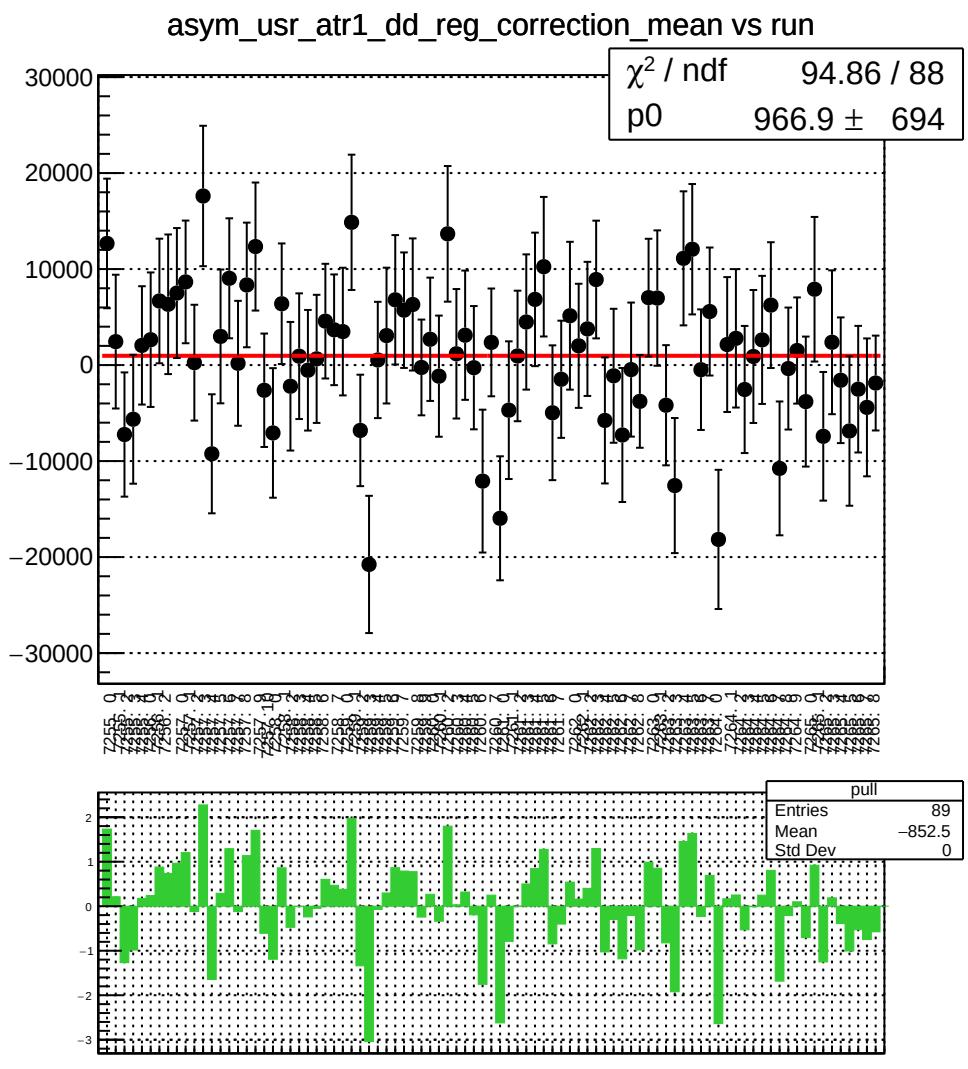

pull1D
Entries 89
Mean 0.01415
Std Dev 0.8536

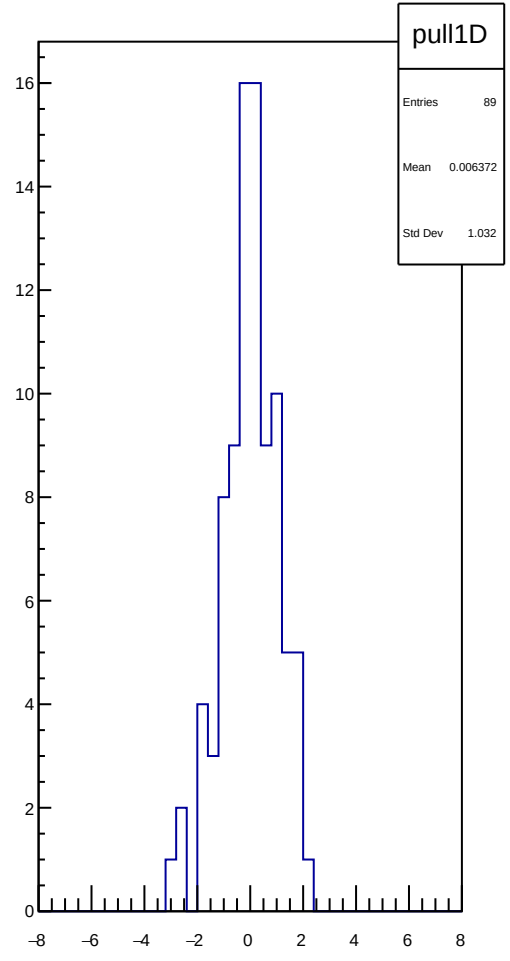

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.013e+05 / 88
p0 1.186e−11 ± 1.086e−14
90
80
70
60
50
40
30
20
10

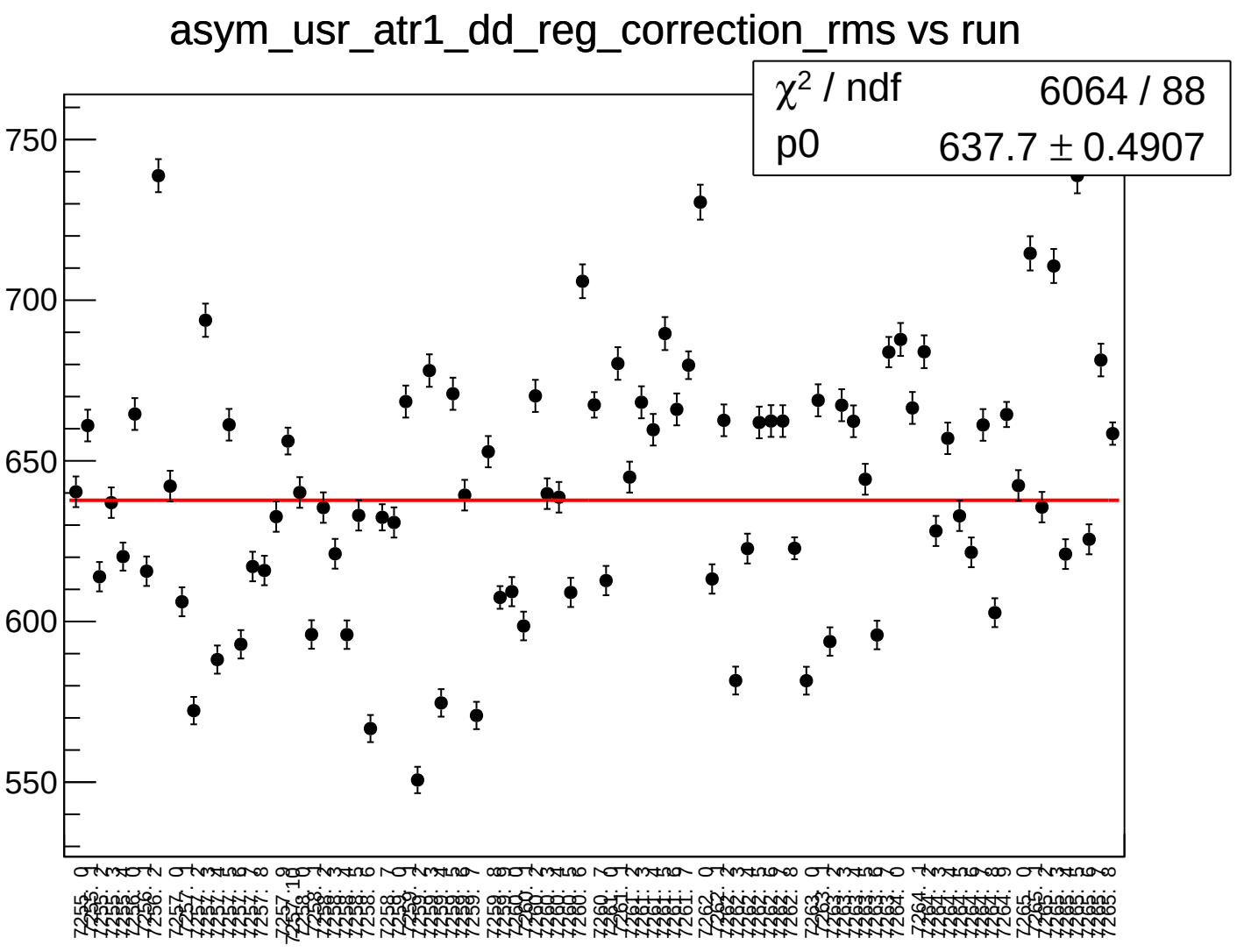

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 93.07 / 88
p0 −1264 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 48.3
Std Dev 33.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

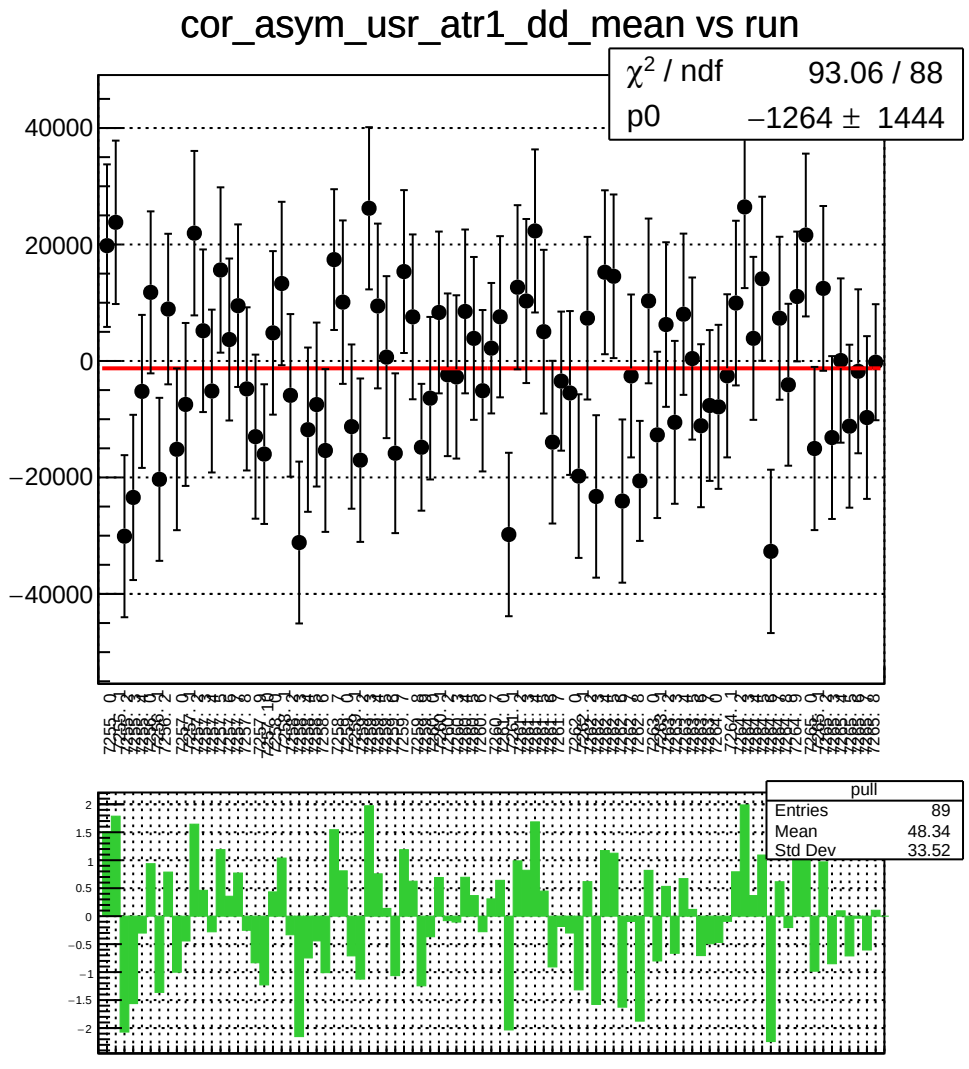

pull1D
Entries 89
Mean 0.007513
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

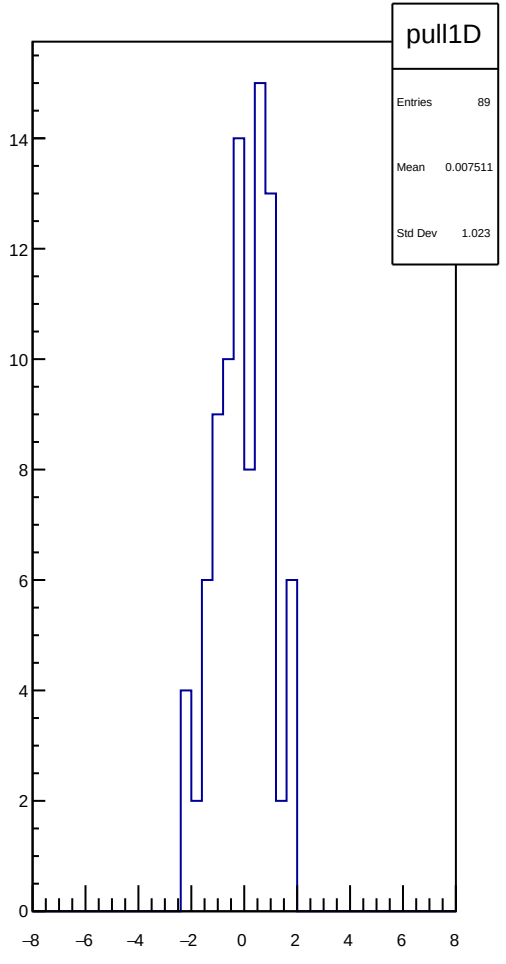

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 65.31 / 88
p0 1329 ± 1.021
1370
1360
1350
1340
1330
1320
1310
1300
1290

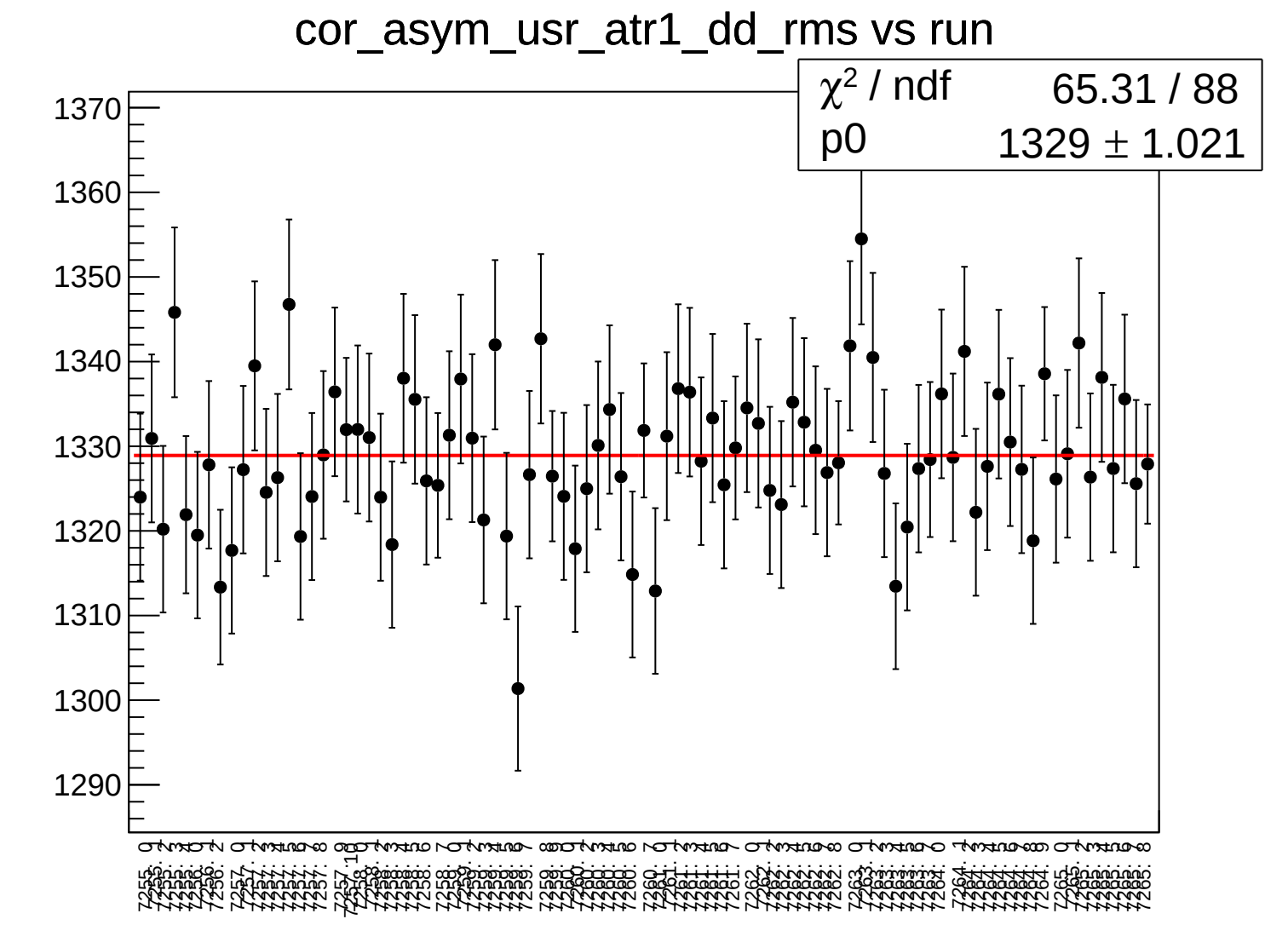

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 94.86 / 88
p0 966.9 ± 694
pull
Entries 89
Mean −852.5
Std Dev 0

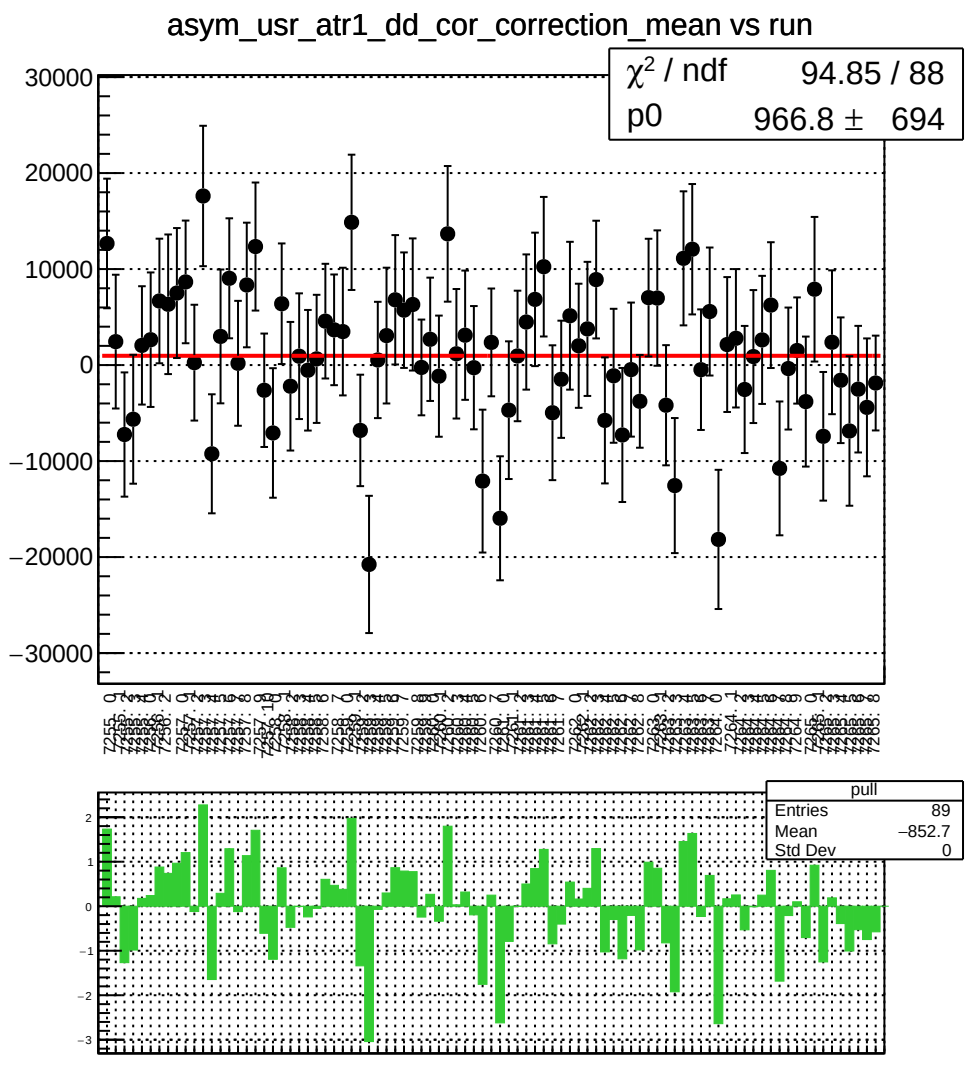

pull1D
Entries 89
Mean 0.006372
Std Dev 1.032

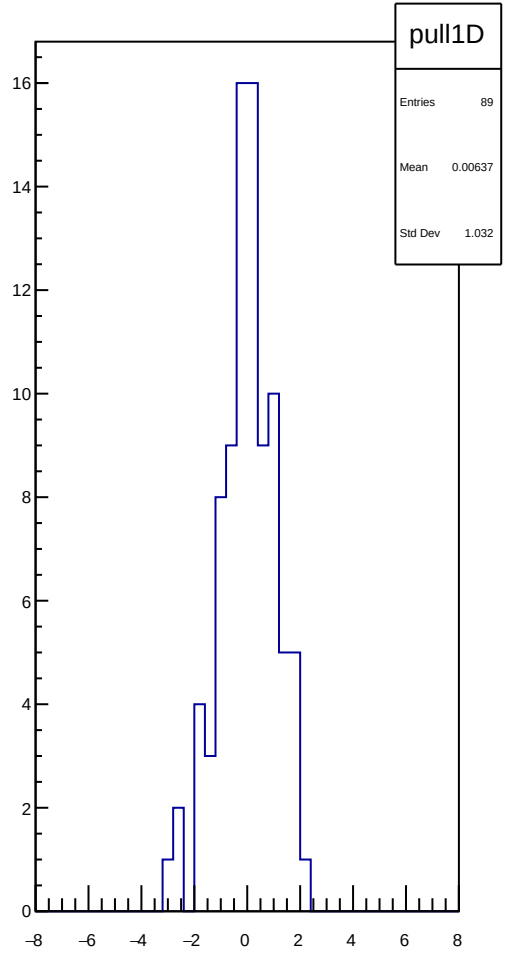

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 6064 / 88
p0 637.7 ± 0.4907
750
700
650
600
550

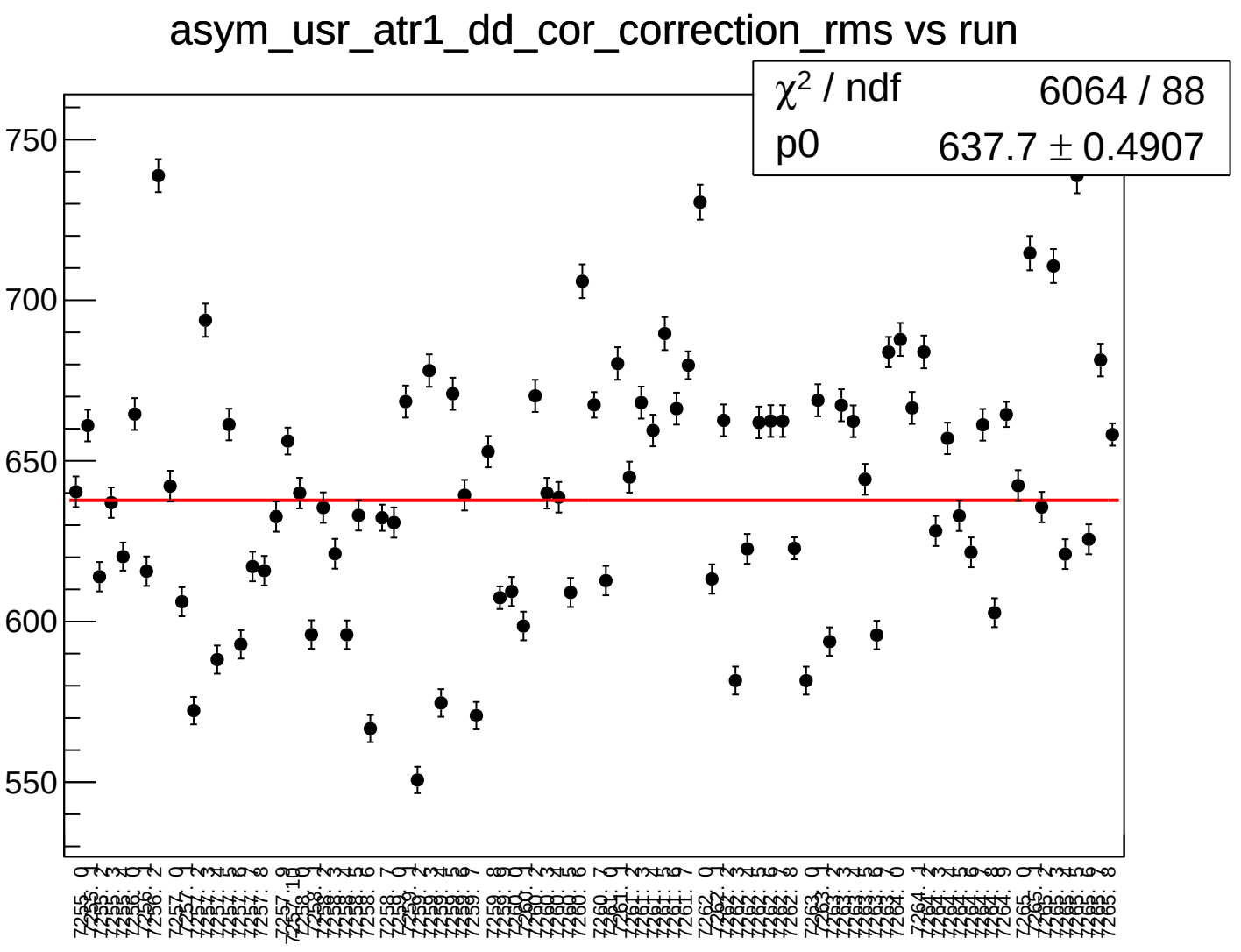

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 93.06 / 88
p0 −1264 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 48.34
Std Dev 33.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

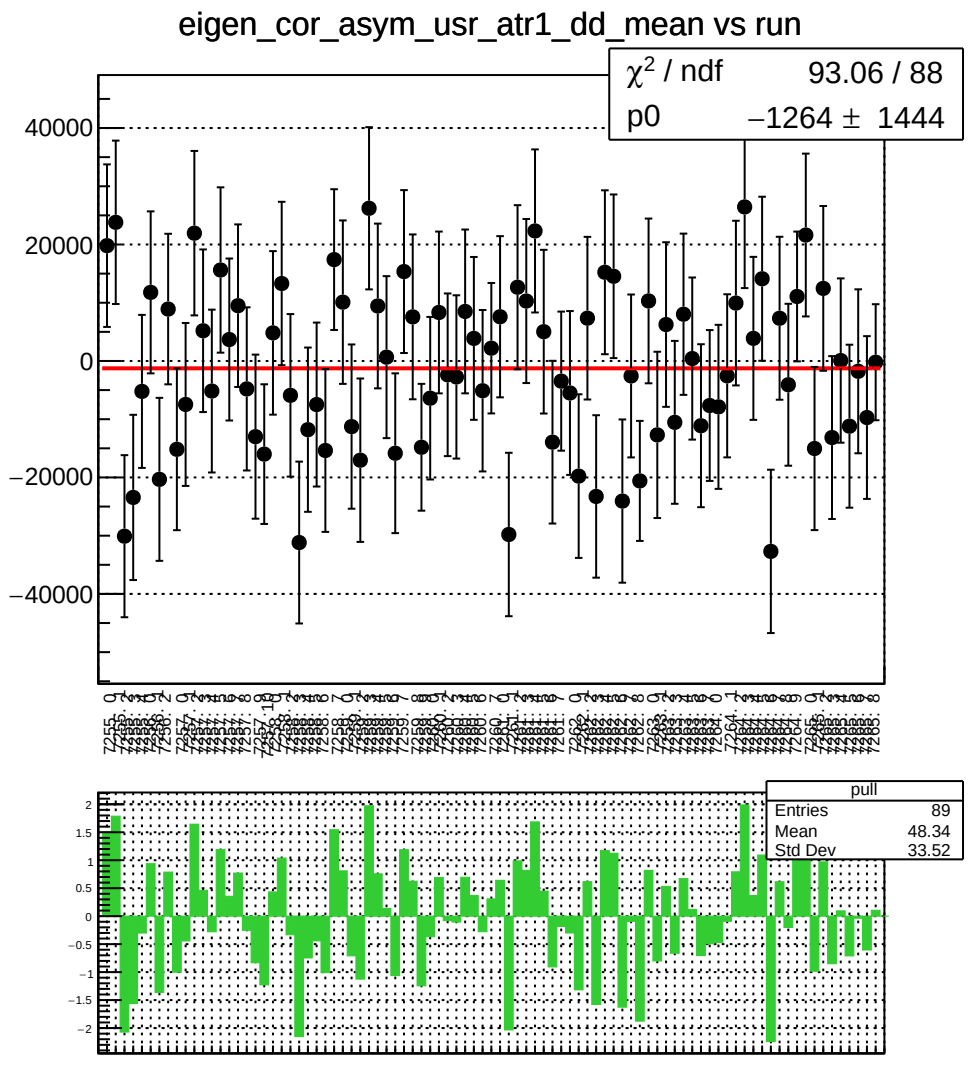

pull1D
Entries 89
Mean 0.007511
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

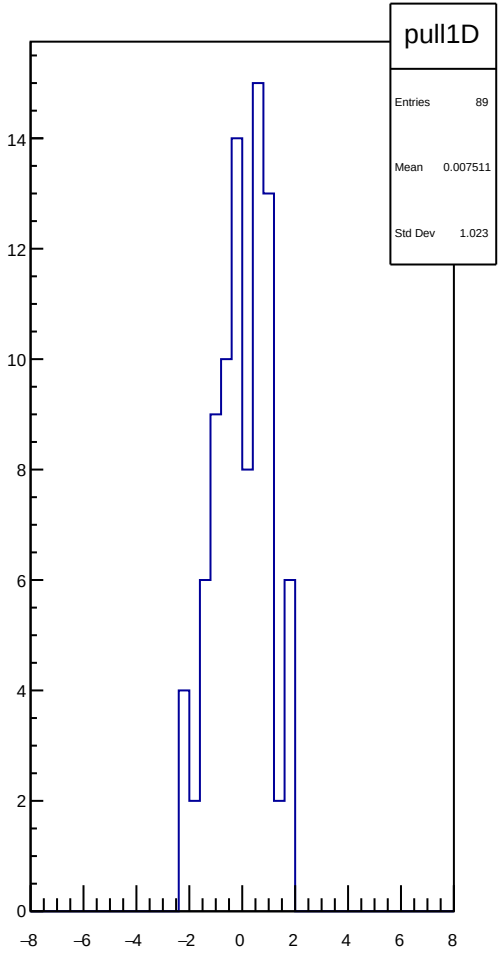

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 65.31 / 88
p0 1329 ± 1.021
1370
1360
1350
1340
1330
1320
1310
1300
1290

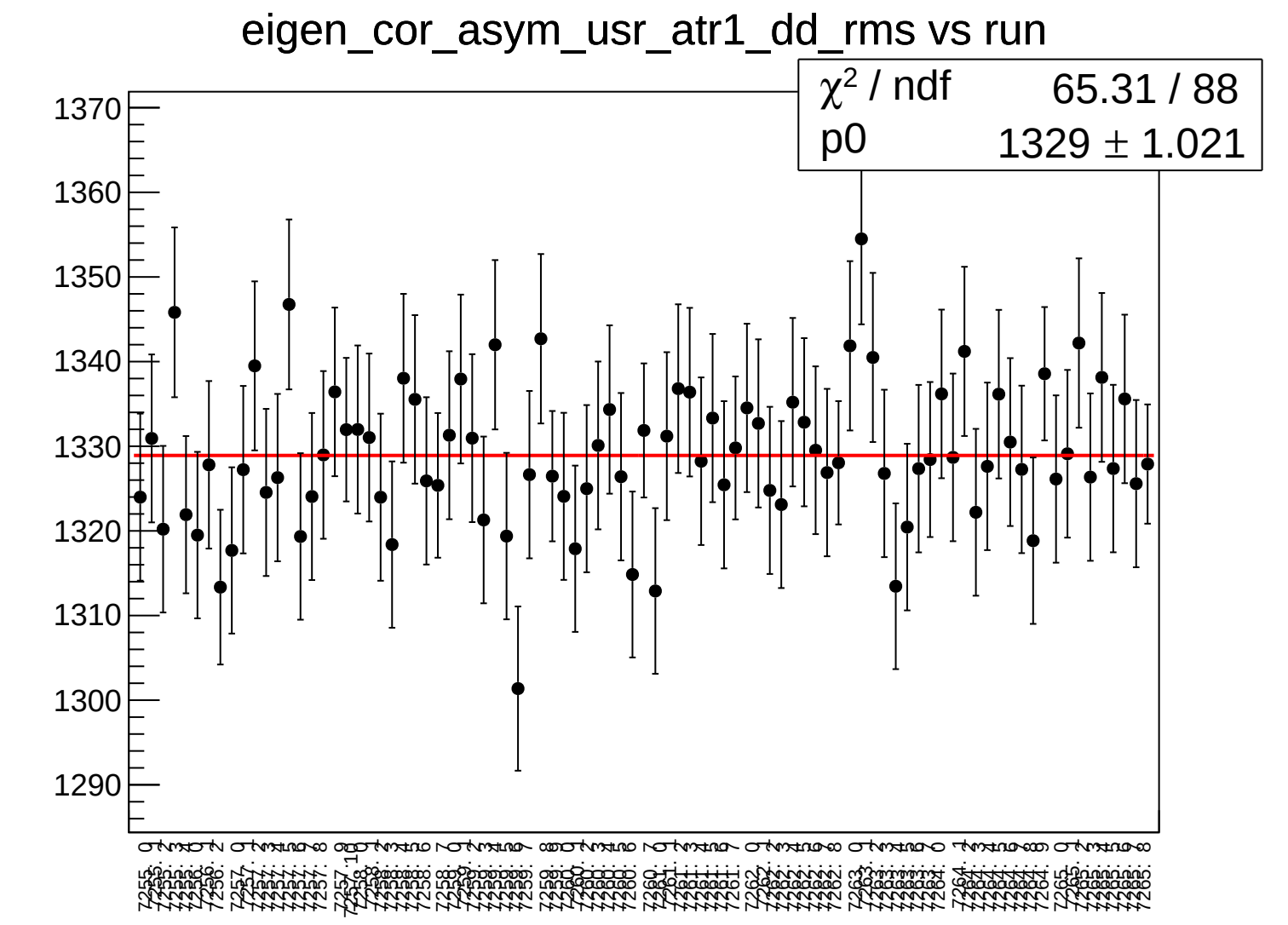

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 94.85 / 88
p0 966.8 ± 694
pull
Entries 89
Mean −852.7
Std Dev 0

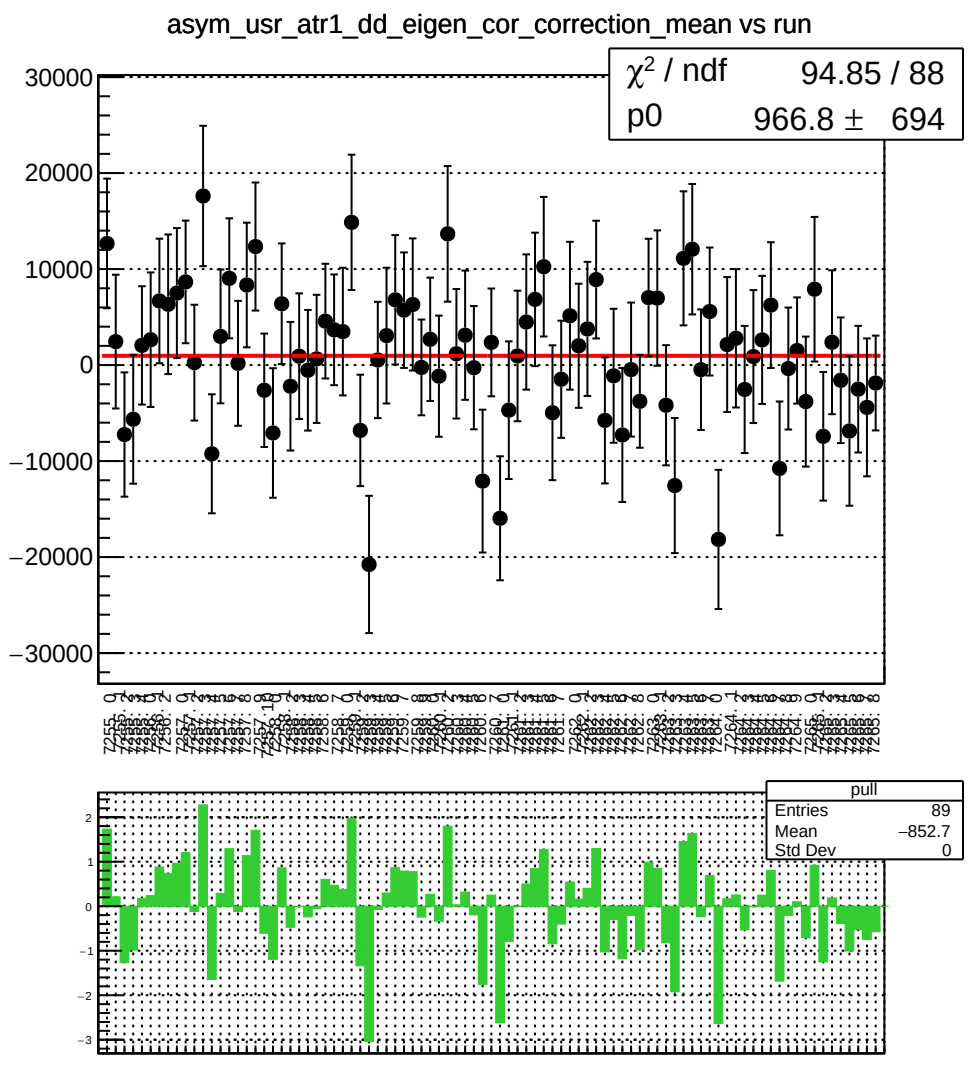

pull1D
Entries 89
Mean 0.00637
Std Dev 1.032

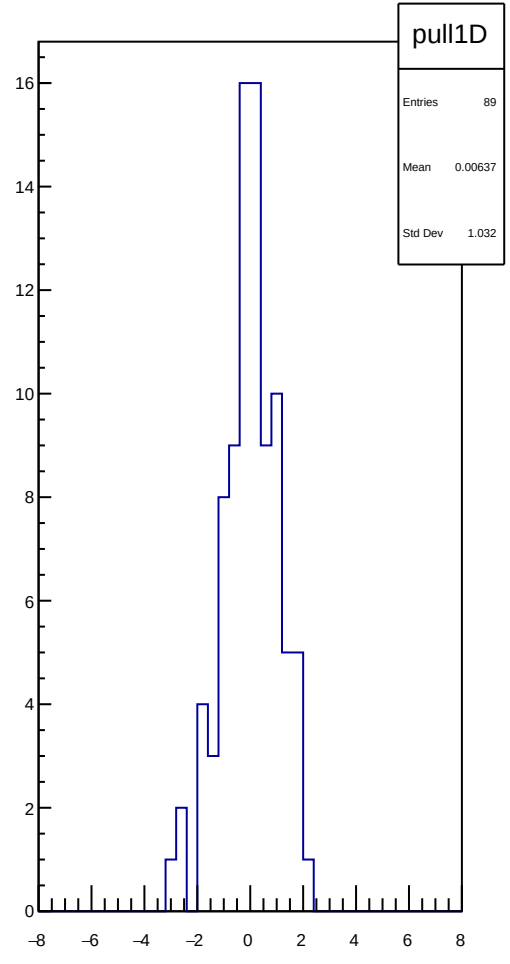

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 6064 / 88
p0 637.7 ± 0.4907
750
700
650
600
550

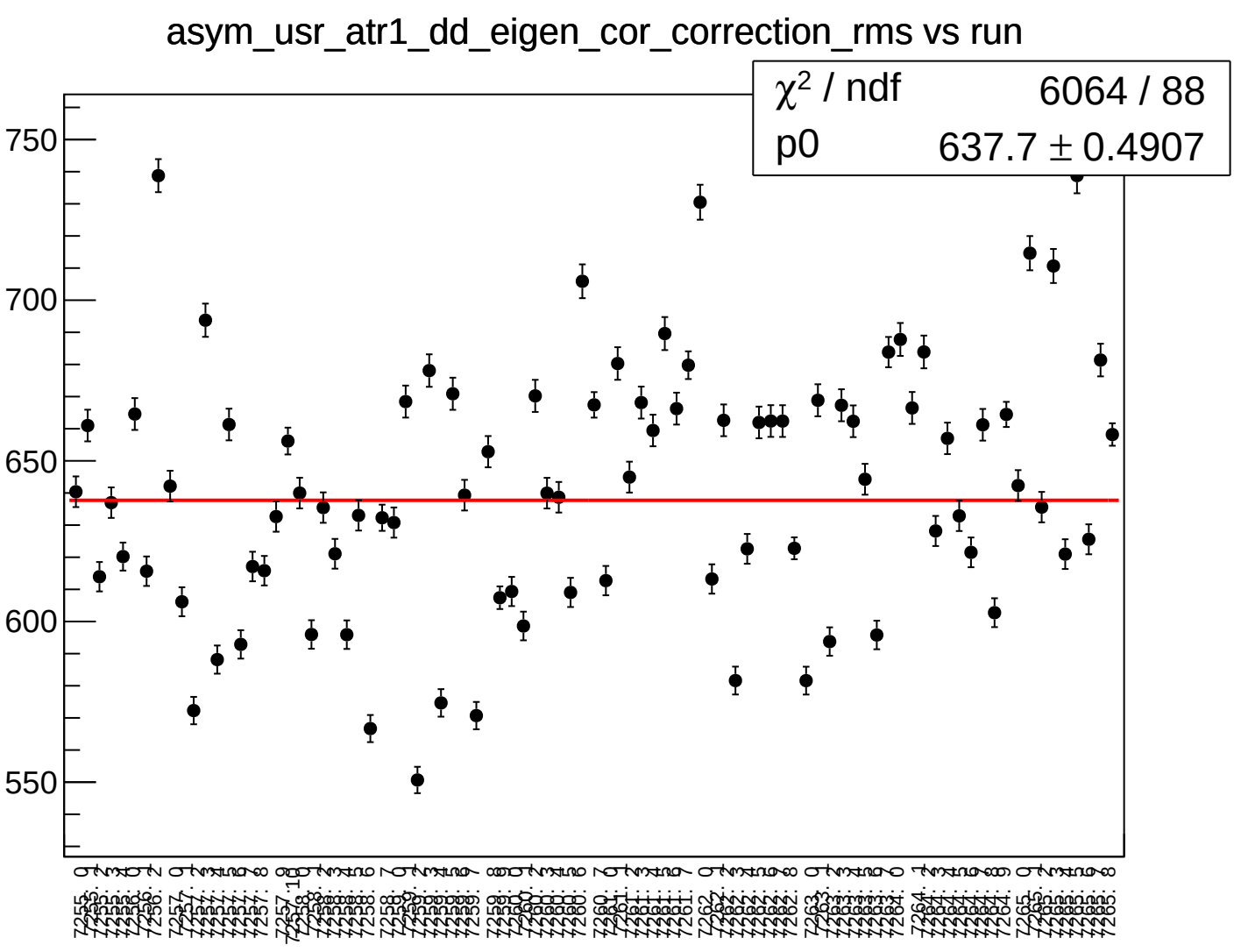

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 93.06 / 88
p0 −1264 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 48.34
Std Dev 33.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

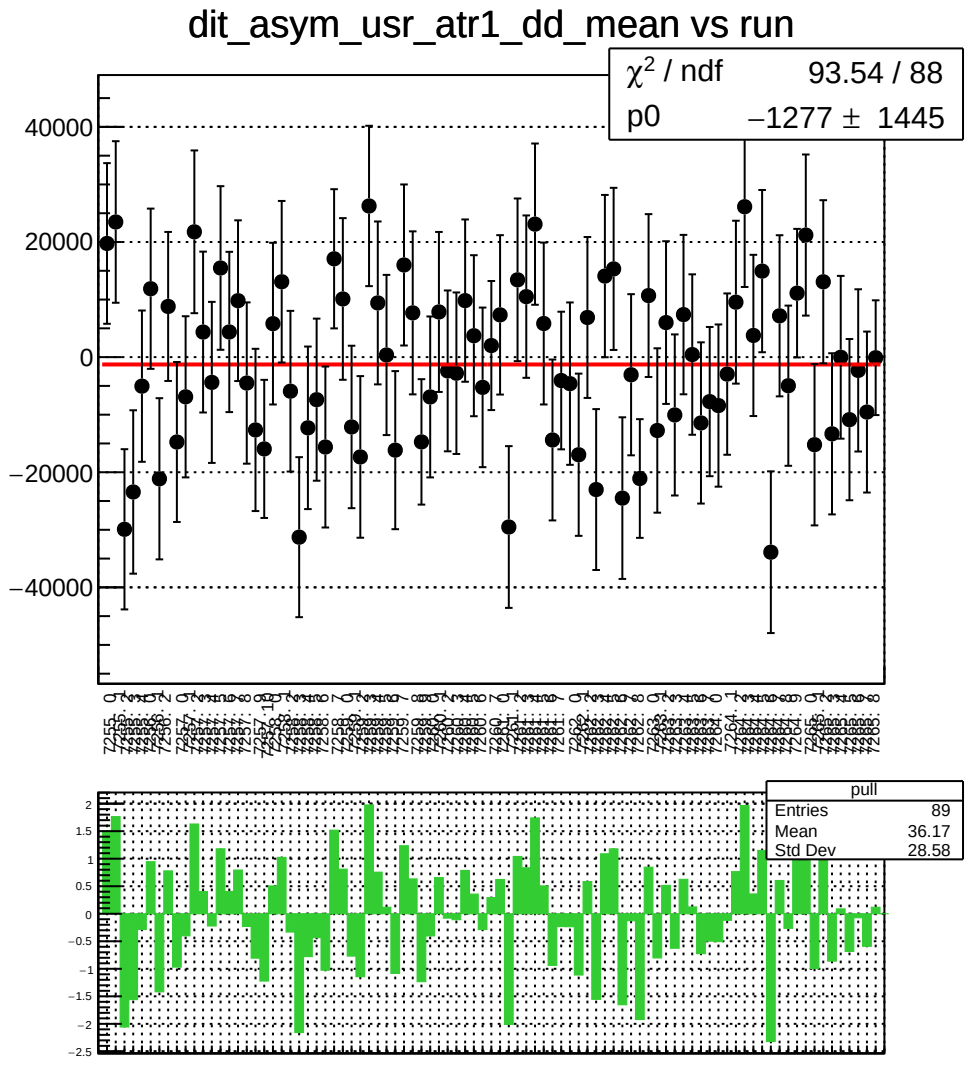

pull1D
Entries 89
Mean 0.007511
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

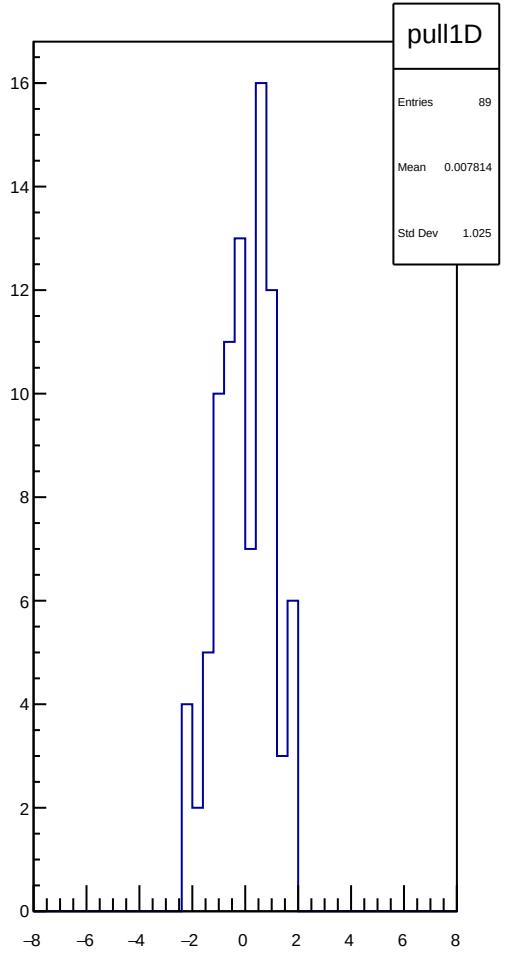

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 65.31 / 88
p0 1329 ± 1.021
1370
1360
1350
1340
1330
1320
1310
1300
1290

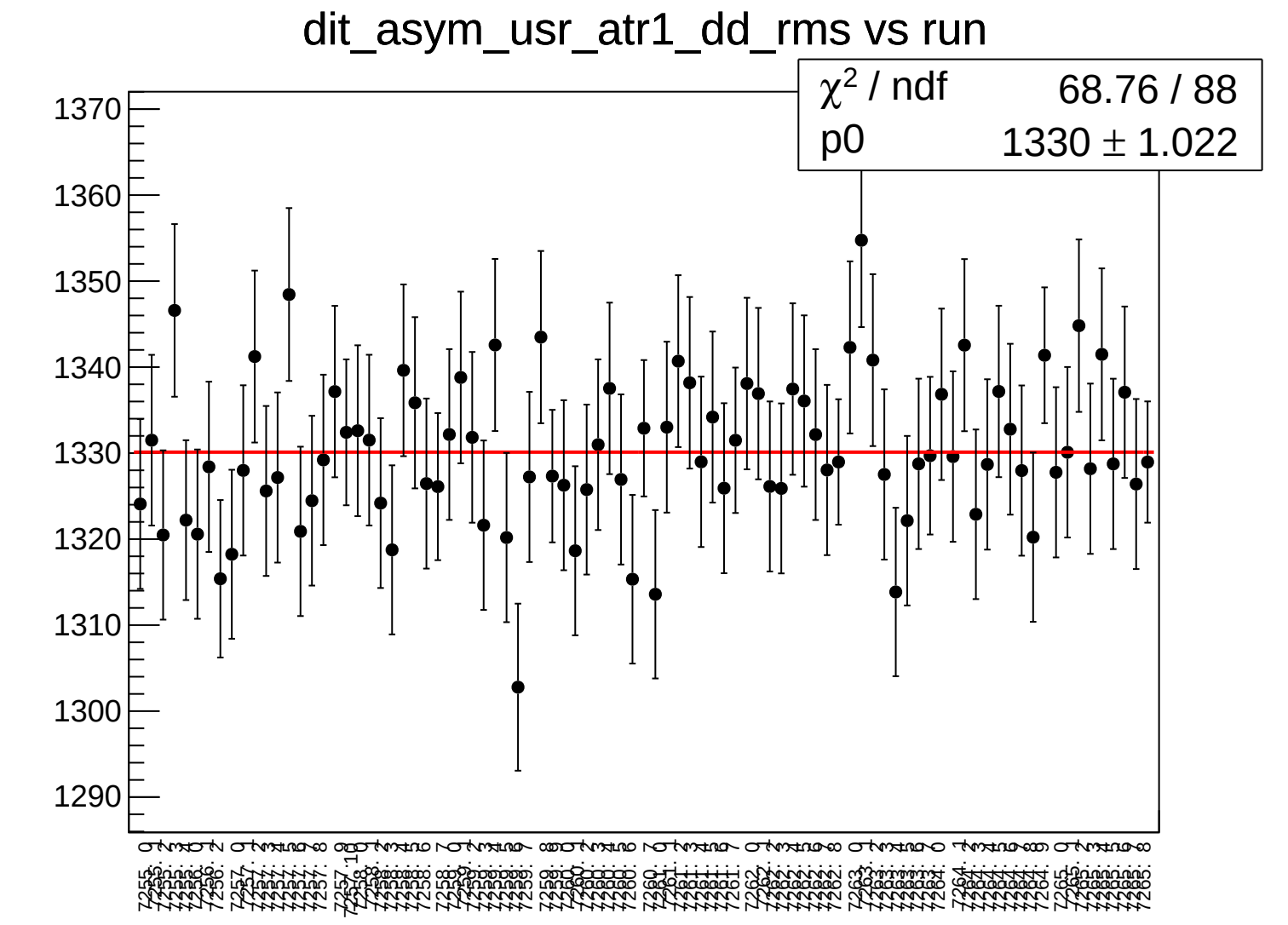

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.85 / 88
p0 966.8 ± 694
pull
Entries 89
Mean −852.7
Std Dev 0

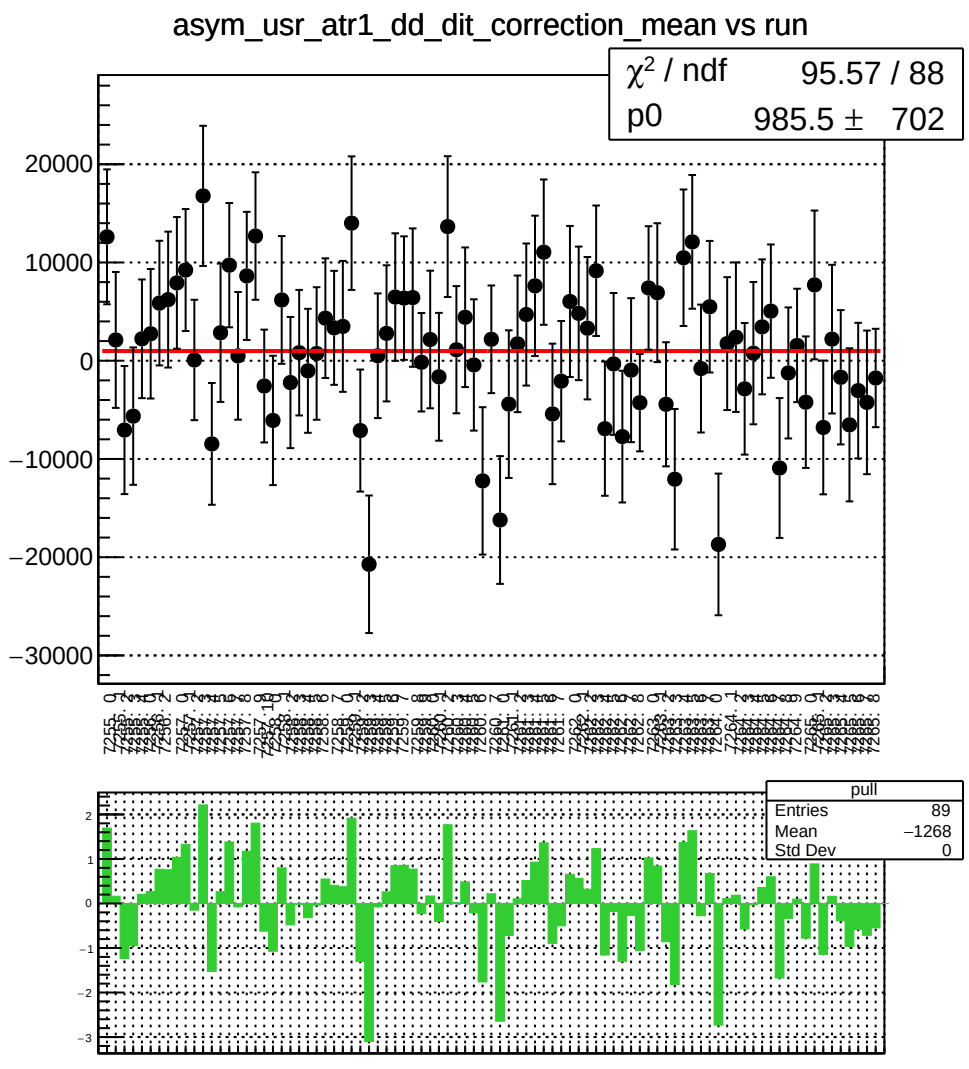

pull1D
Entries 89
Mean 0.00637
Std Dev 1.032

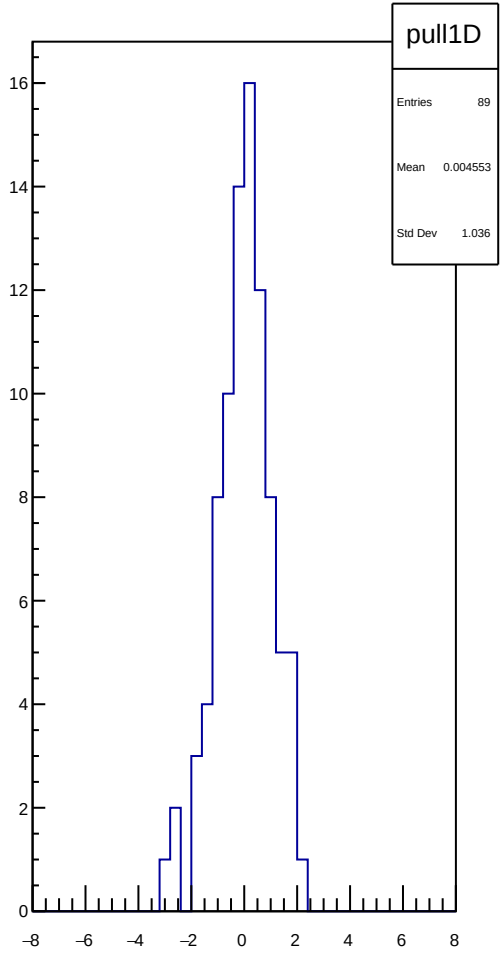

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 6064 / 88
p0 637.7 ± 0.4907
750
700
650
600
550

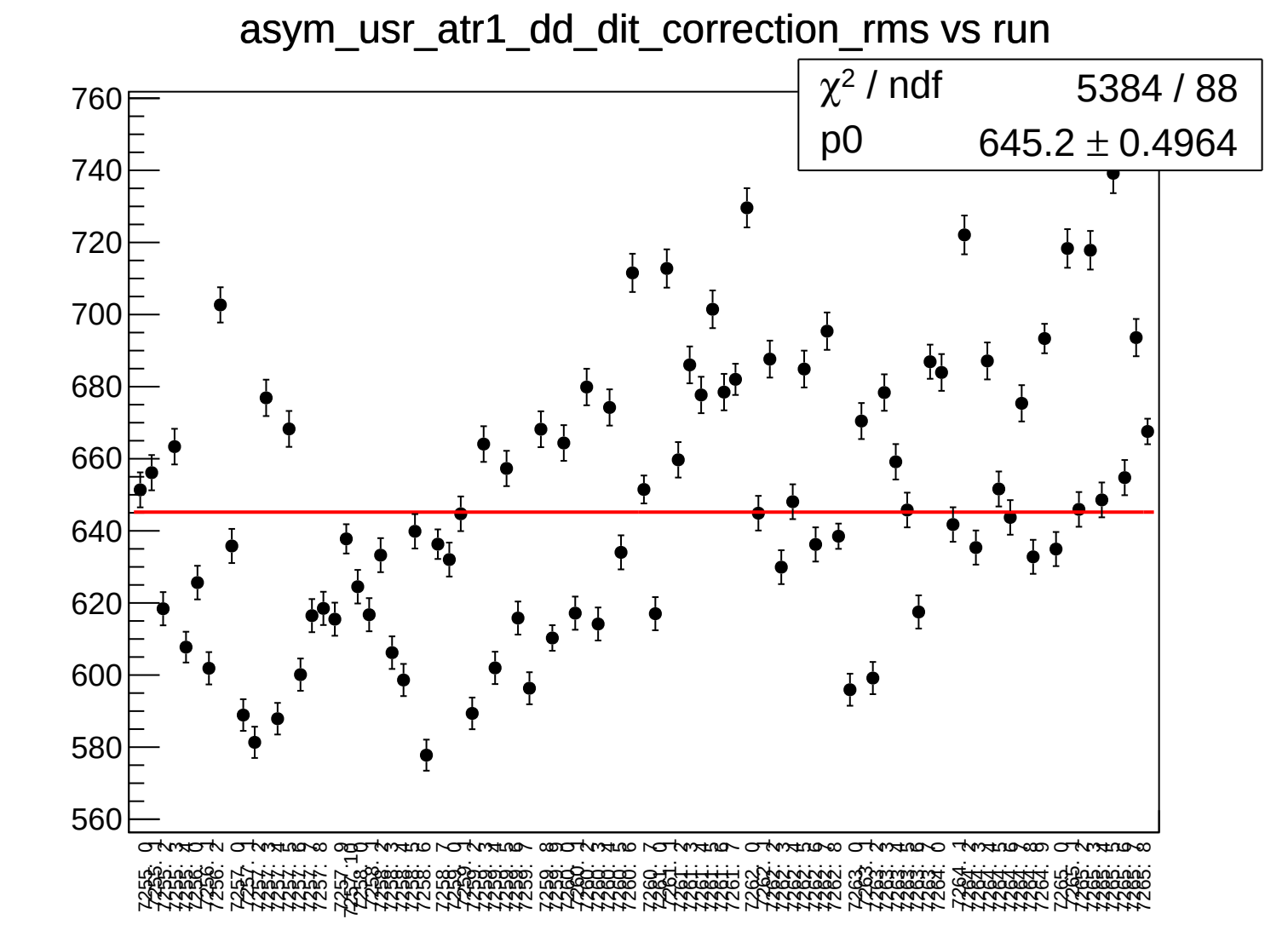

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 93.54 / 88
p0 −1277 ± 1445
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 36.17
Std Dev 28.58
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

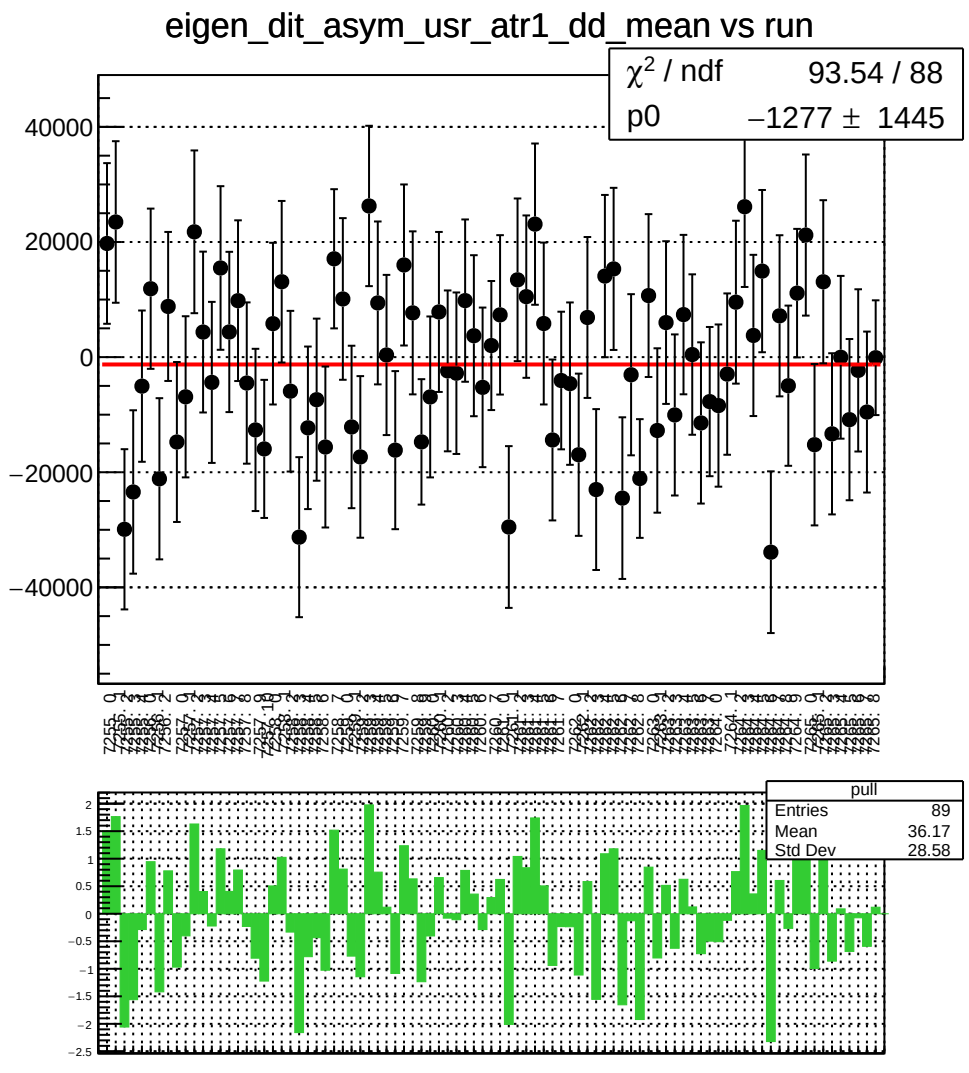

pull1D
Entries 89
Mean 0.007814
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

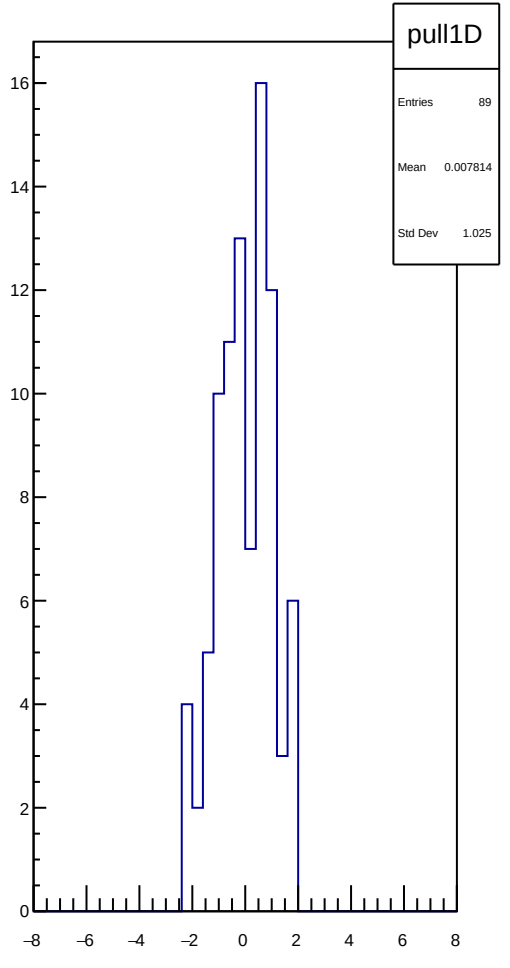

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 68.76 / 88
p0 1330 ± 1.022
1370
1360
1350
1340
1330
1320
1310
1300
1290

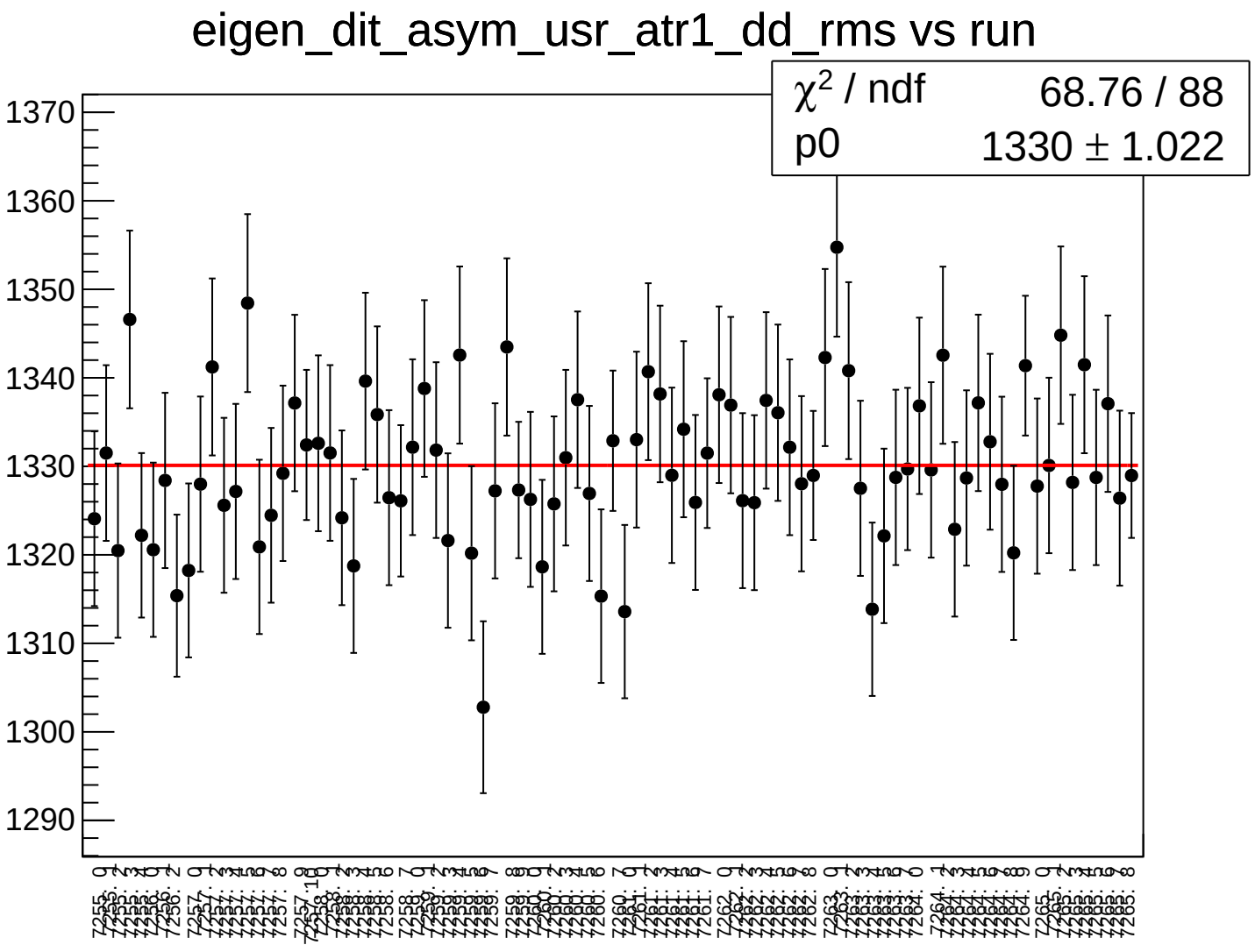

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 95.57 / 88
p0 985.5 ± 702
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1268
Std Dev 0
2
1
0
−1
−2
−3

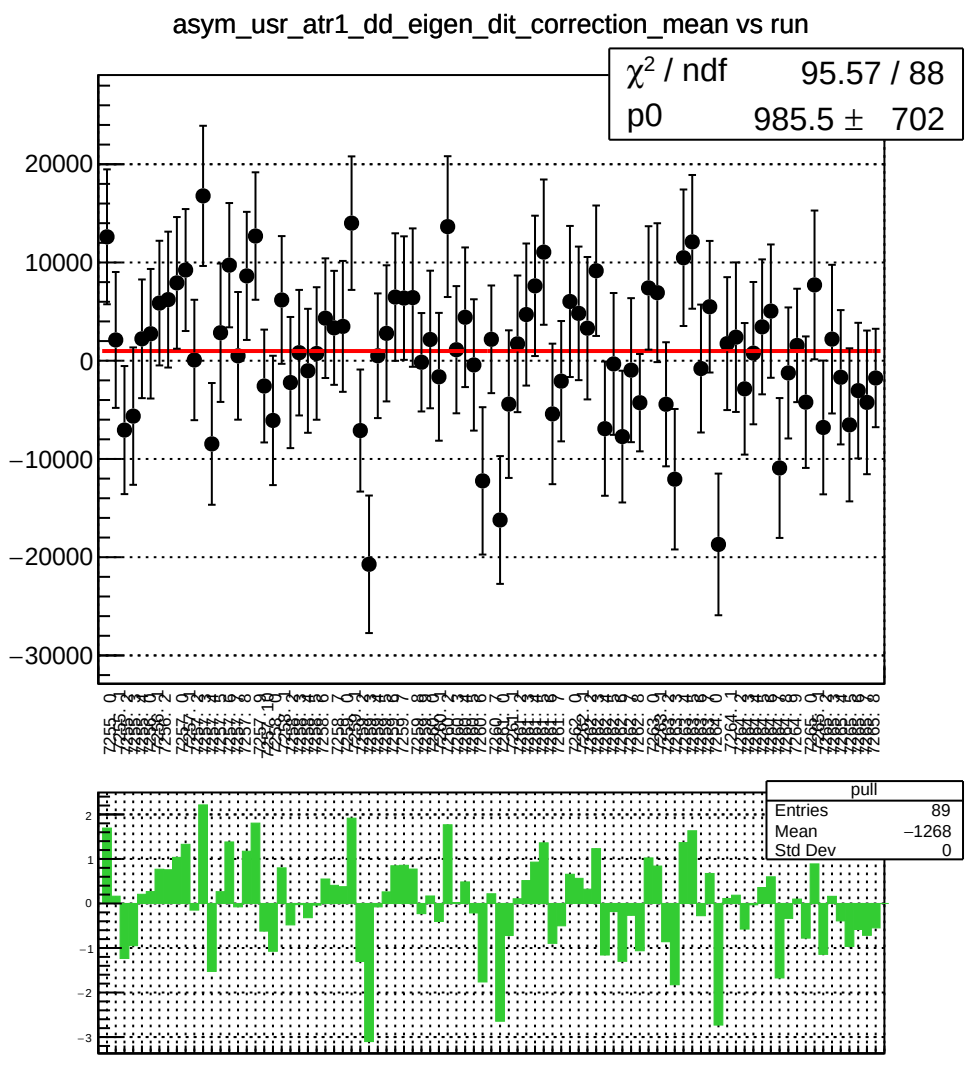

pull1D
Entries 89
Mean 0.004553
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

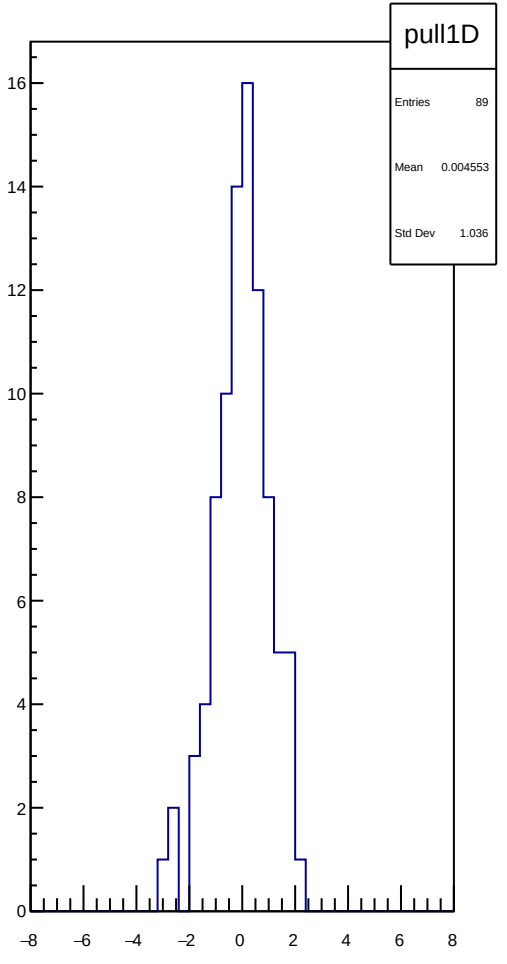

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 5384 / 88
p0 645.2 ± 0.4964
760
740
720
700
680
660
640
620
600
580
560

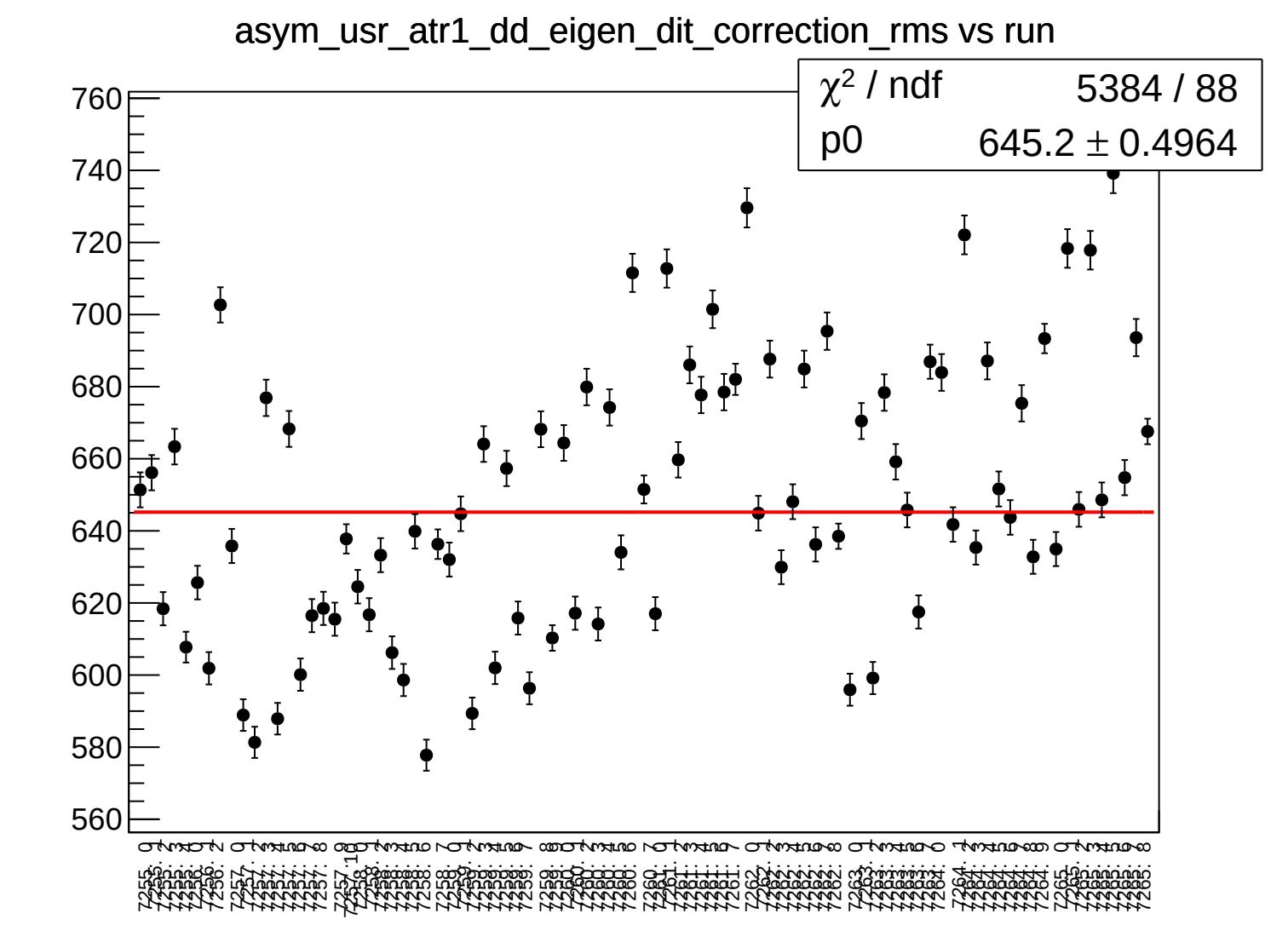

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 93.54 / 88
p0 −1277 ± 1445
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 36.17
Std Dev 28.58
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

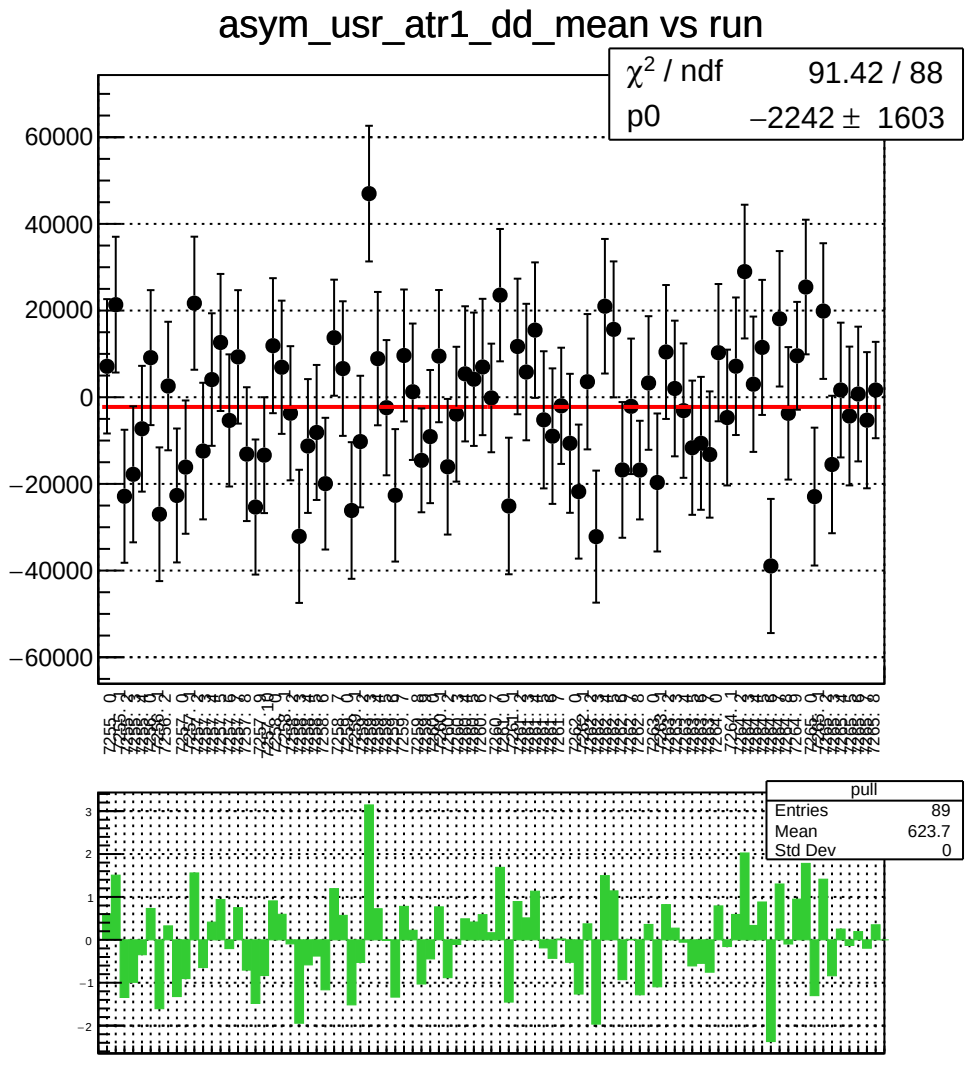

pull1D
Entries 89
Mean 0.007814
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

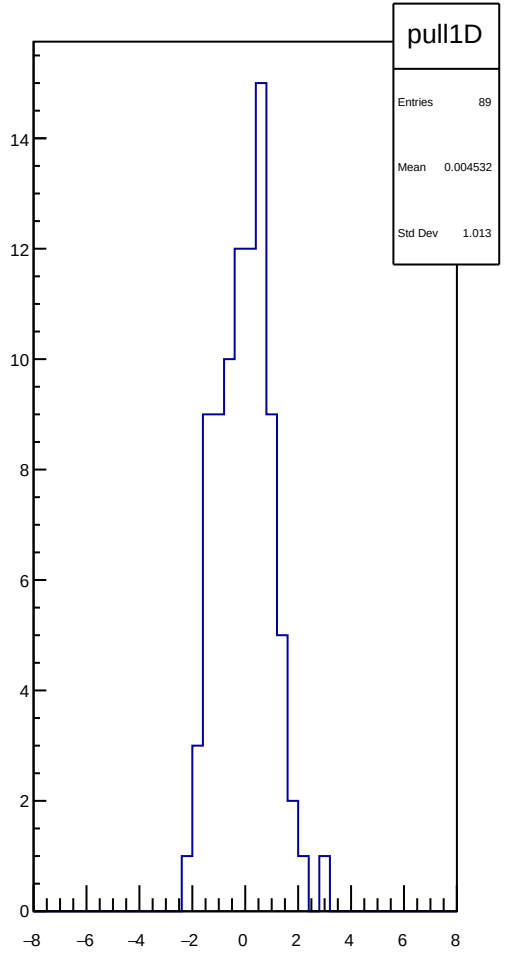

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 68.76 / 88
p0 1330 ± 1.022
1370
1360
1350
1340
1330
1320
1310
1300
1290

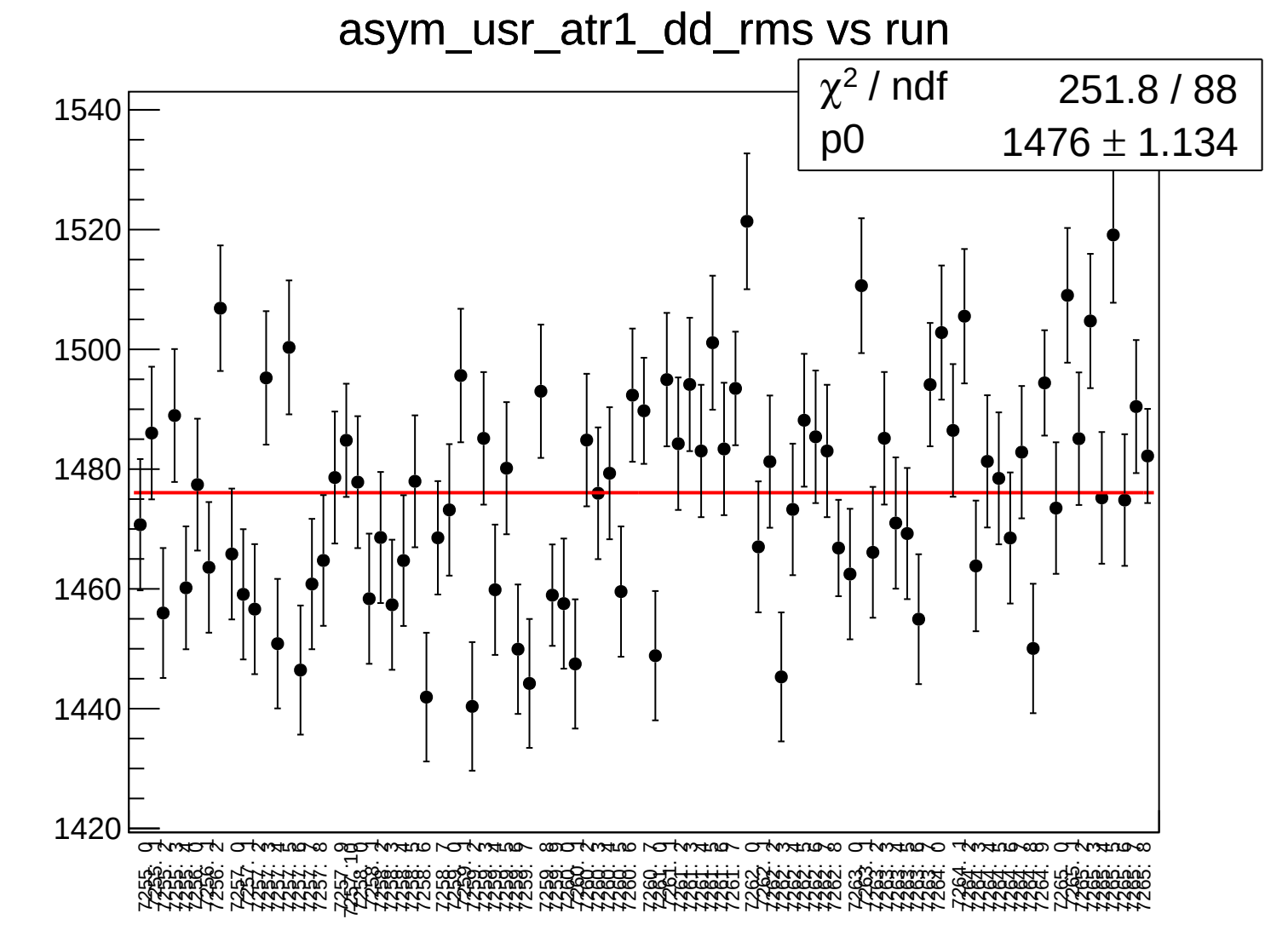

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.57 / 88
p0 985.5 ± 702
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1268
Std Dev 0
2
1
0
−1
−2
−3

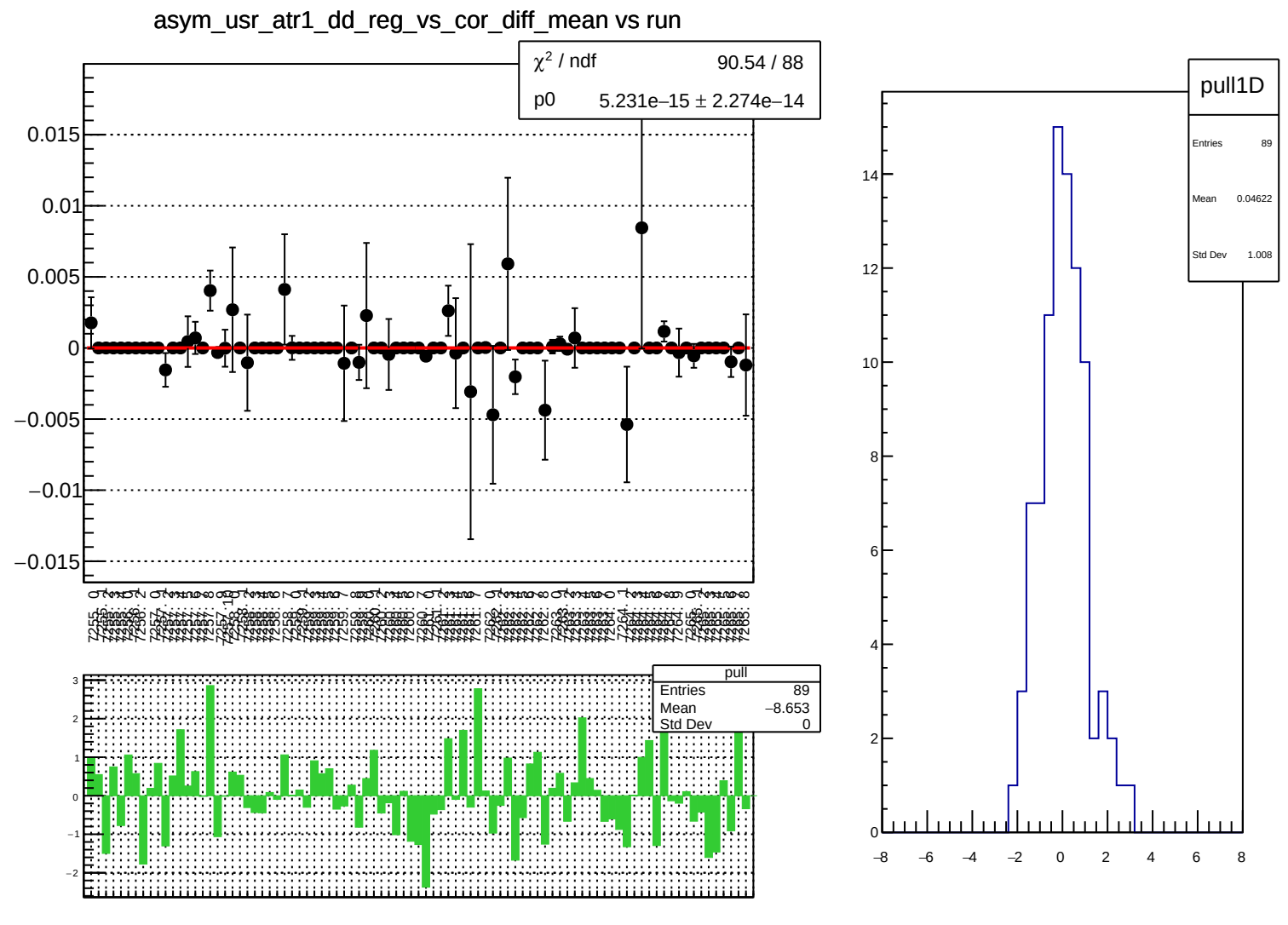

pull1D
Entries 89
Mean 0.004553
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

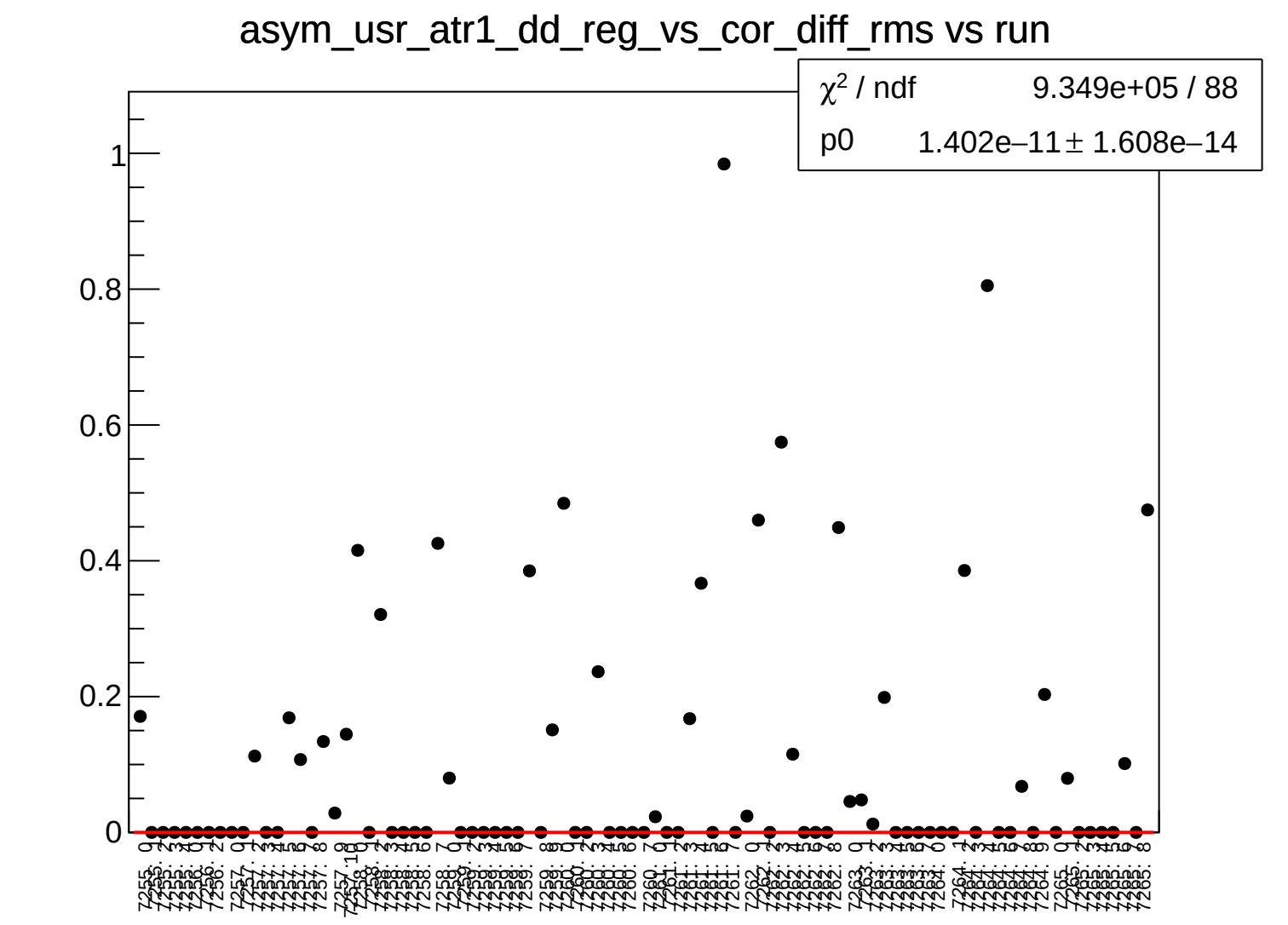

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 5384 / 88
p0 645.2 ± 0.4964
760
740
720
700
680
660
640
620
600
580
560

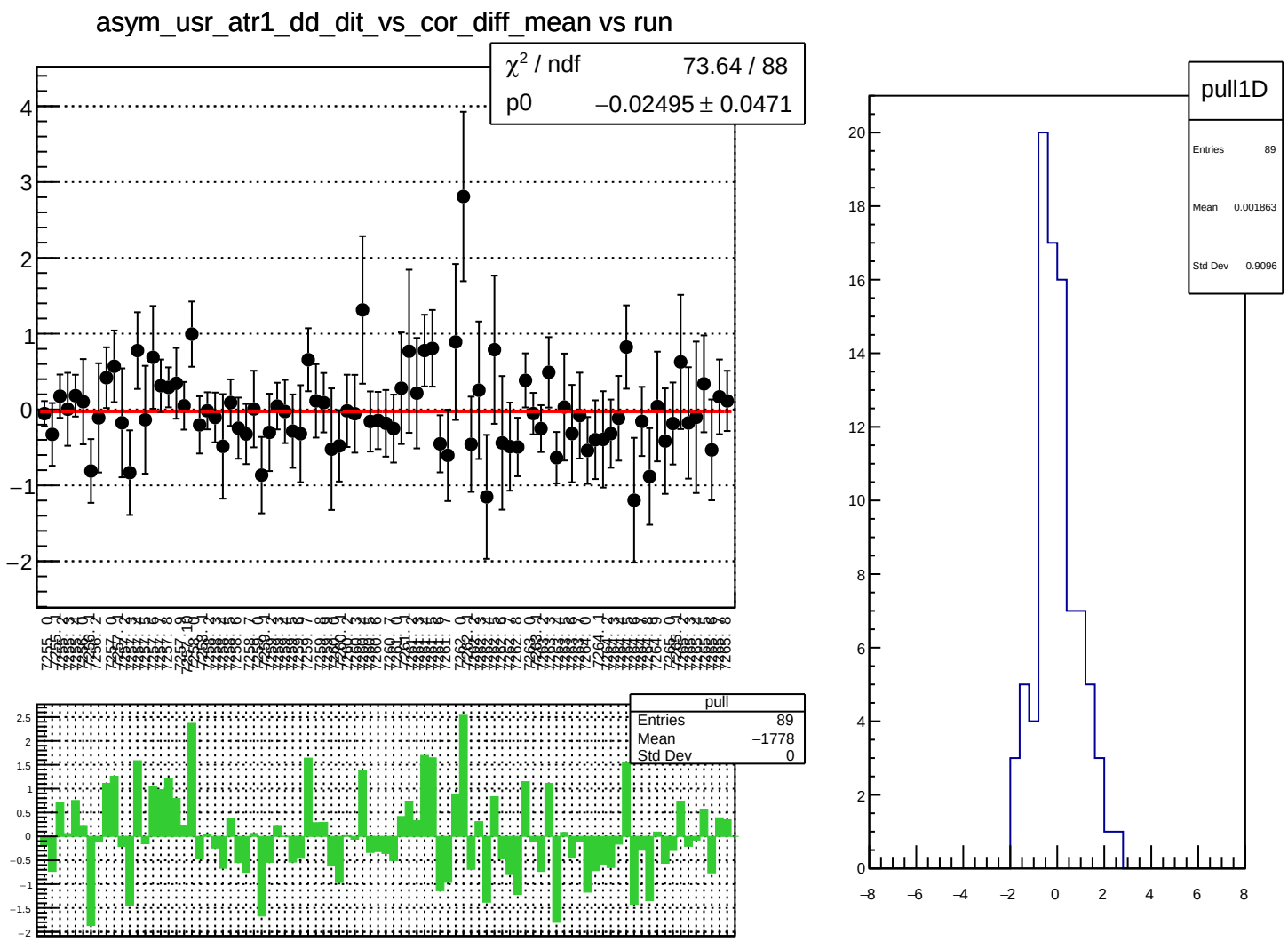

asym_usr_atr1_dd_mean vs run
χ² / ndf 91.42 / 88
p0 −2242 ± 1603
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 623.7
Std Dev 0
3
2
1
0
−1
−2

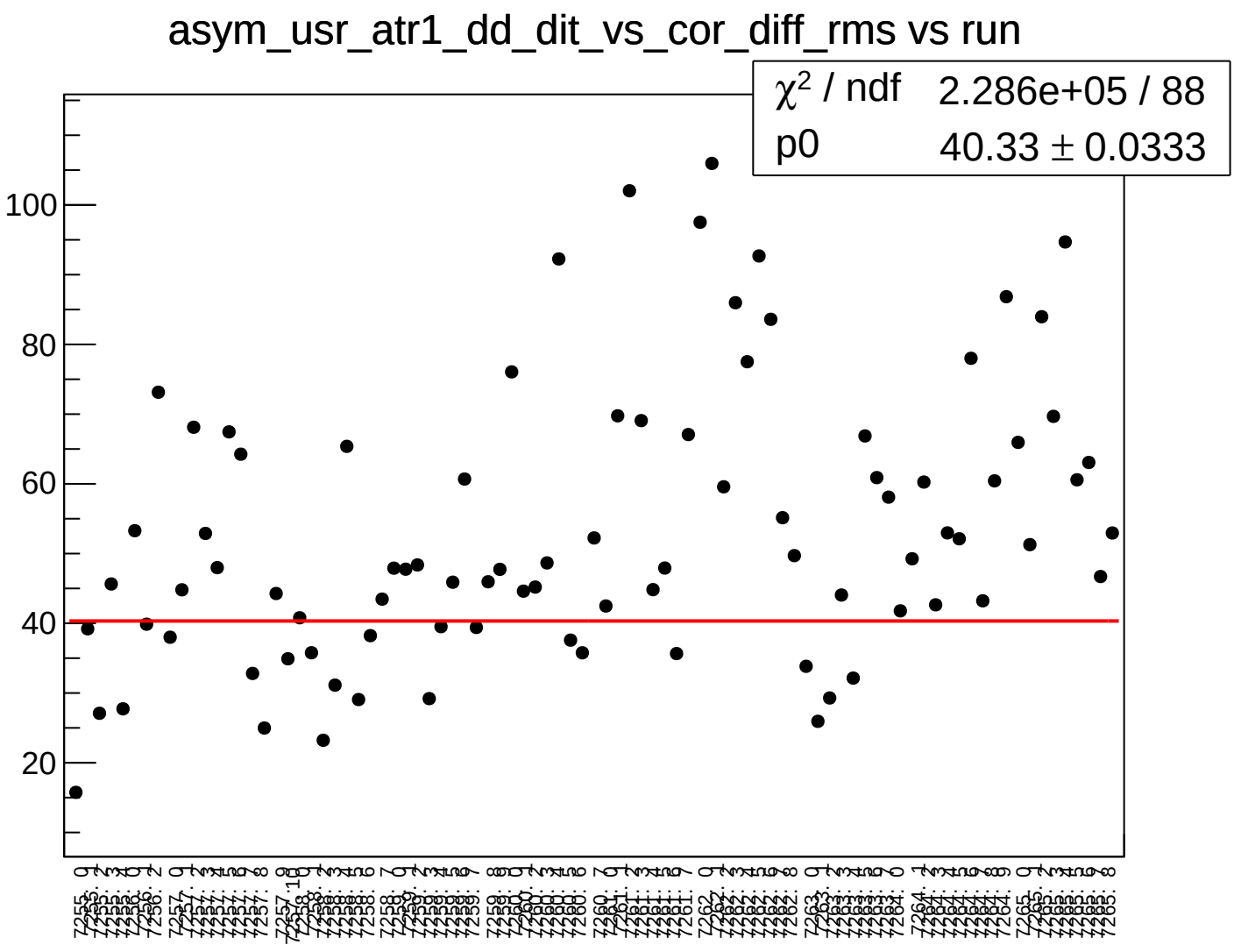

pull1D
Entries 89
Mean 0.004532
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

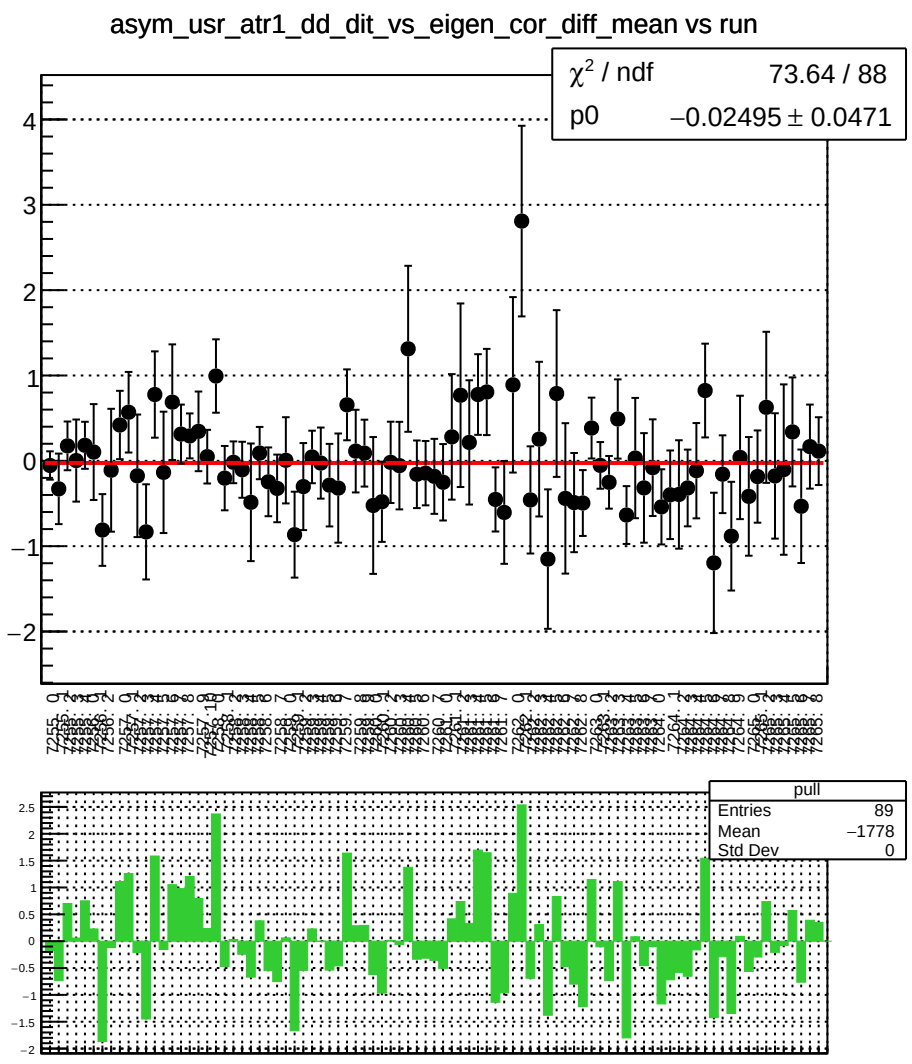

asym_usr_atr1_dd_rms vs run
χ² / ndf 251.8 / 88
p0 1476 ± 1.134
1540
1520
1500
1480
1460
1440
1420

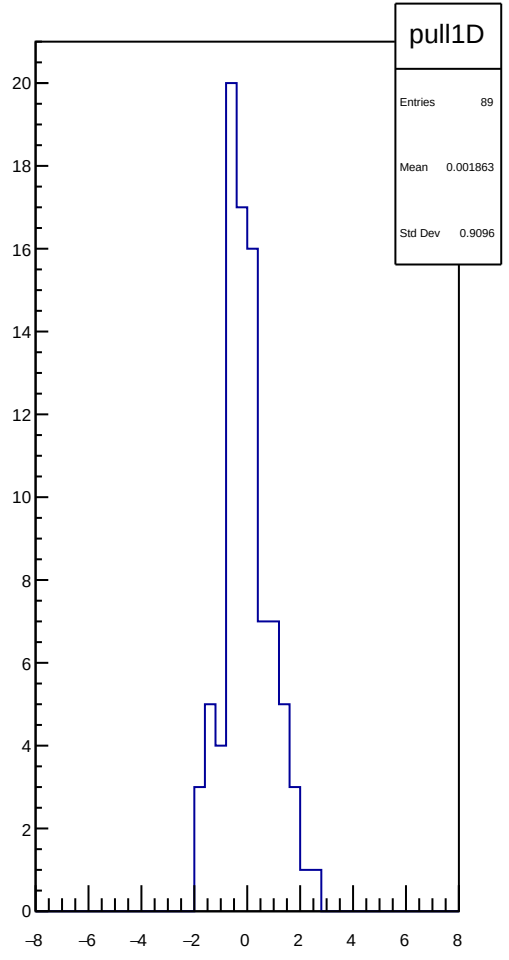

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.54 / 88
p0 5.231e−15 ± 2.274e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean −8.653
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.04622
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

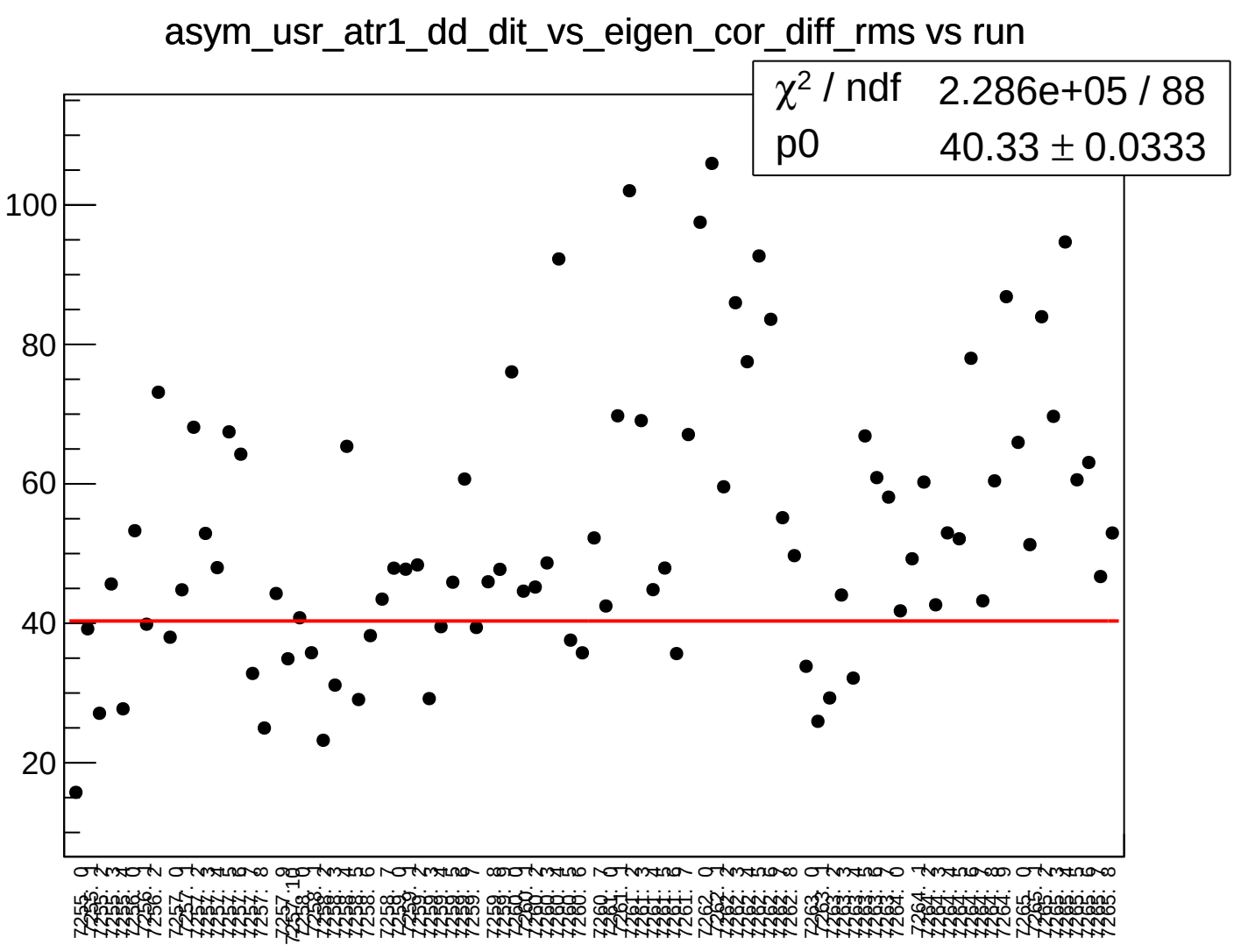

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.349e+05 / 88
p0 1.402e−11 ± 1.608e−14
1
0.8
0.6
0.4
0.2
0

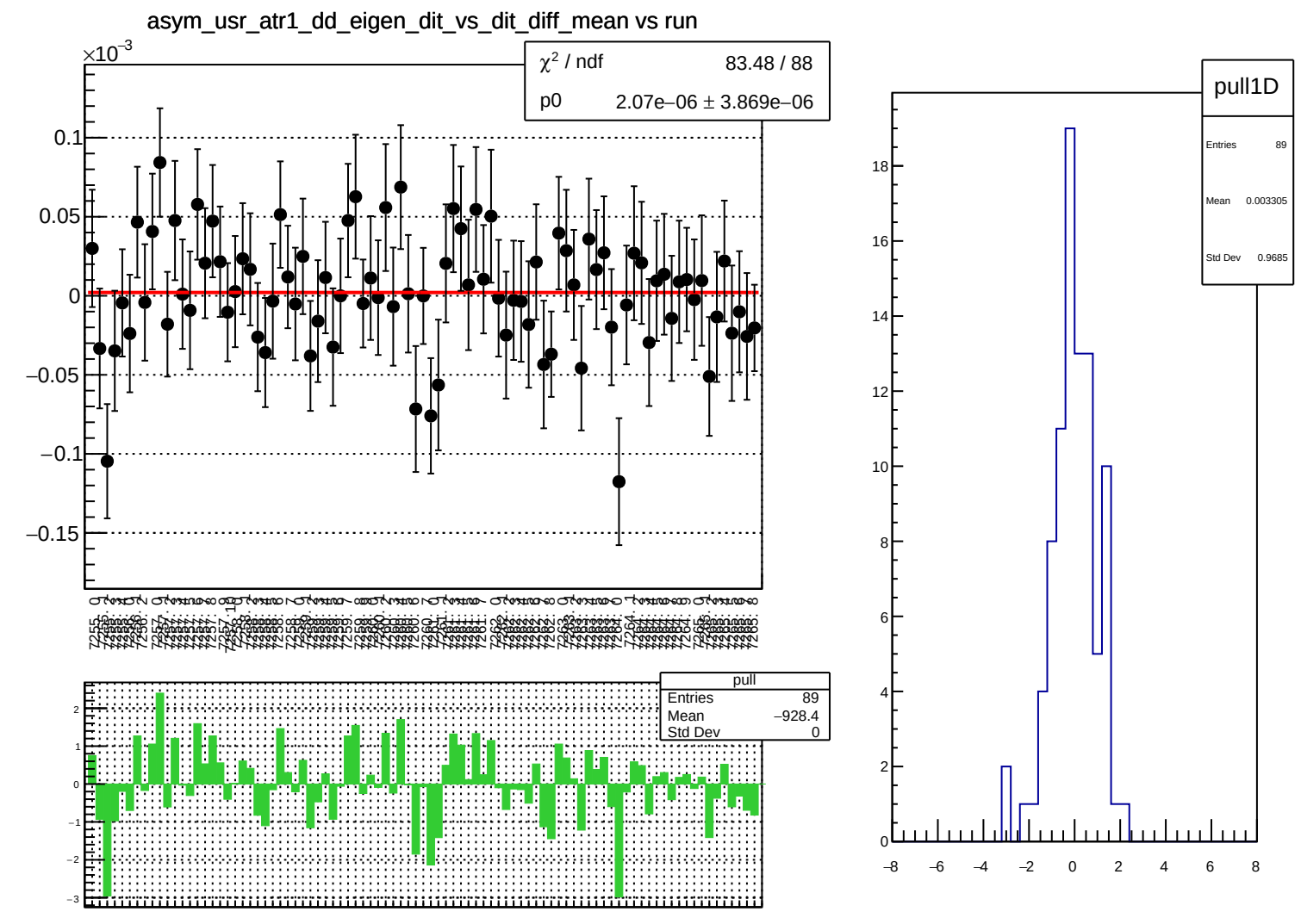

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.64 / 88
p0 −0.02495 ± 0.0471
pull
Entries 89
Mean −1778
Std Dev 0
pull1D
Entries 89
Mean 0.001863
Std Dev 0.9096

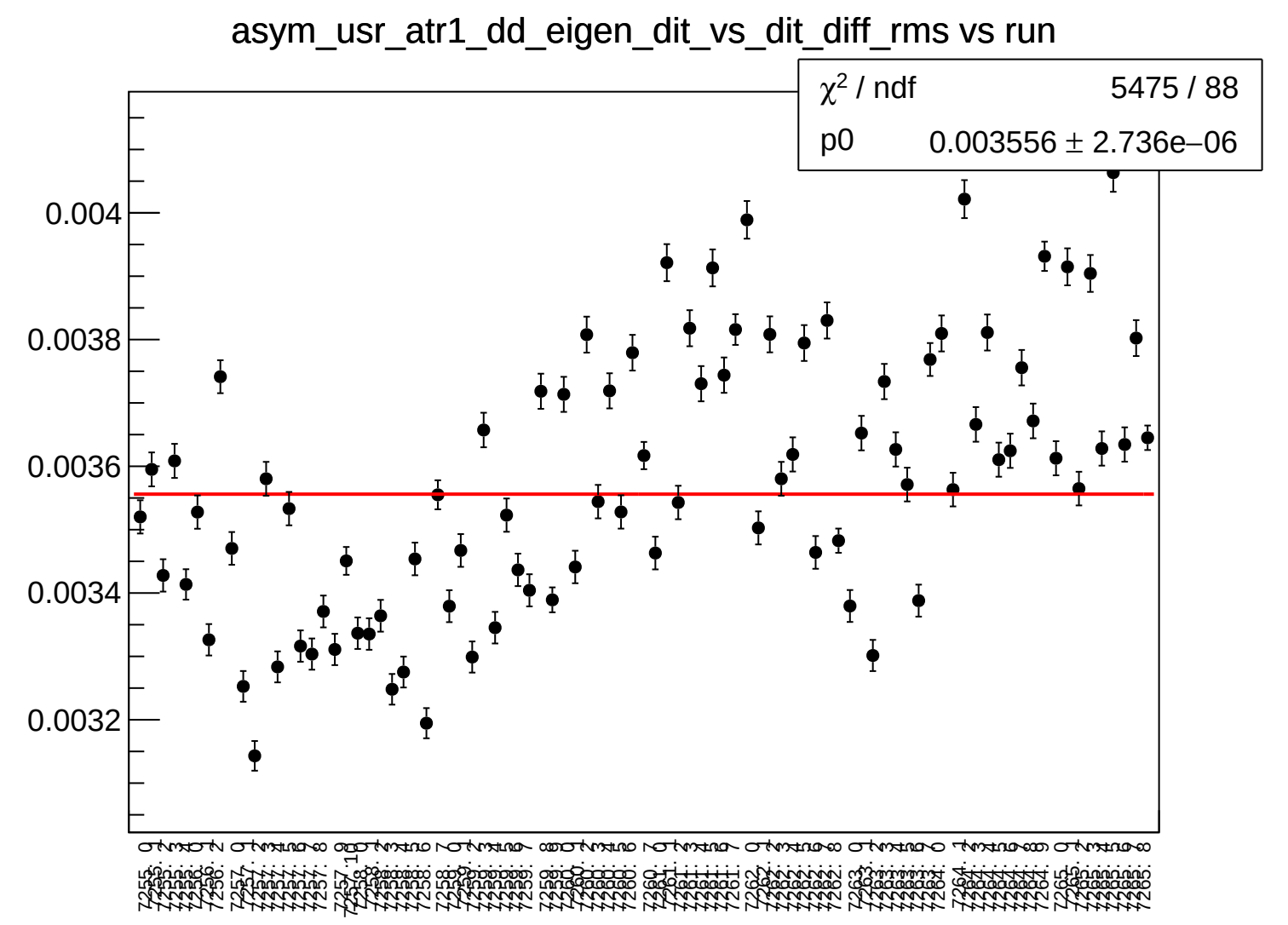

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.286e+05 / 88
p0 40.33 ± 0.0333
100
80
60
40
20

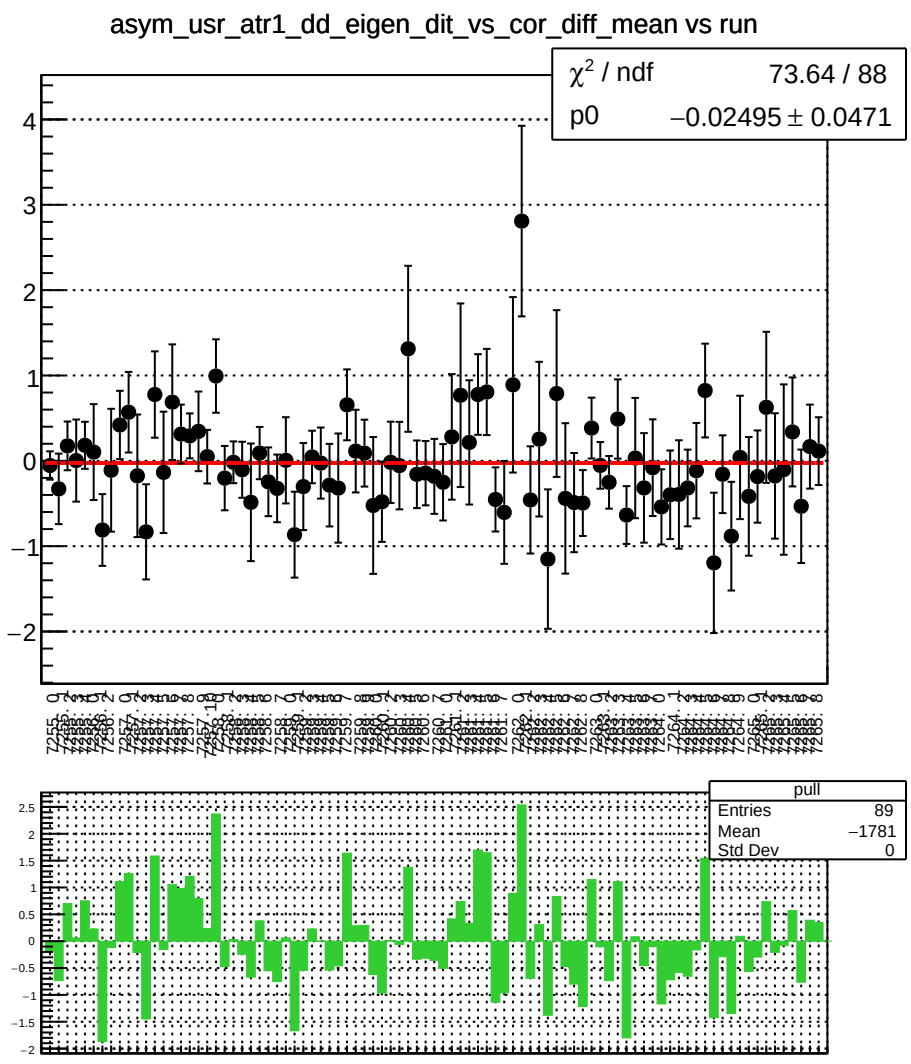

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.64 / 88
p0 −0.02495 ± 0.0471
pull
Entries 89
Mean −1778
Std Dev 0

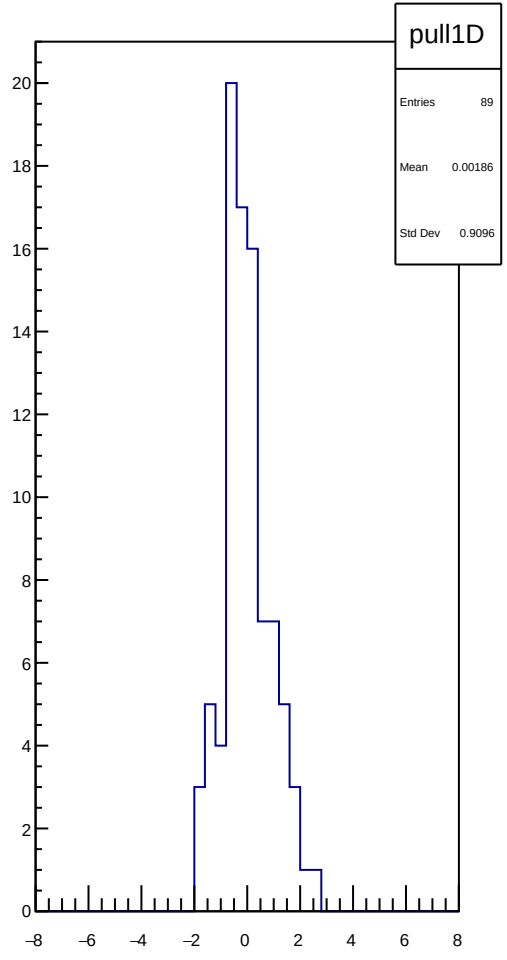

pull1D
Entries 89
Mean 0.001863
Std Dev 0.9096

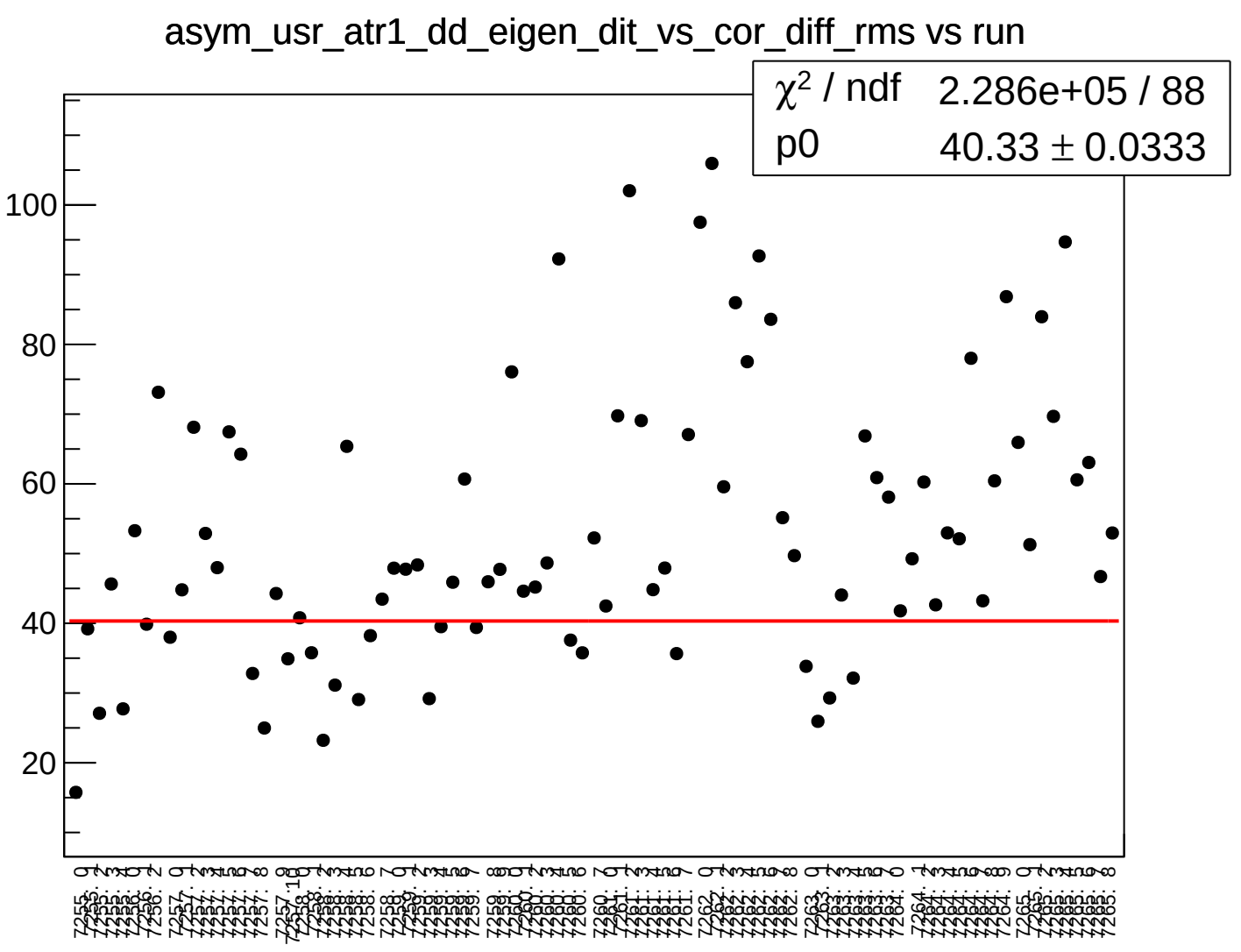

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.286e+05 / 88
p0 40.33 ± 0.0333
100
80
60
40
20

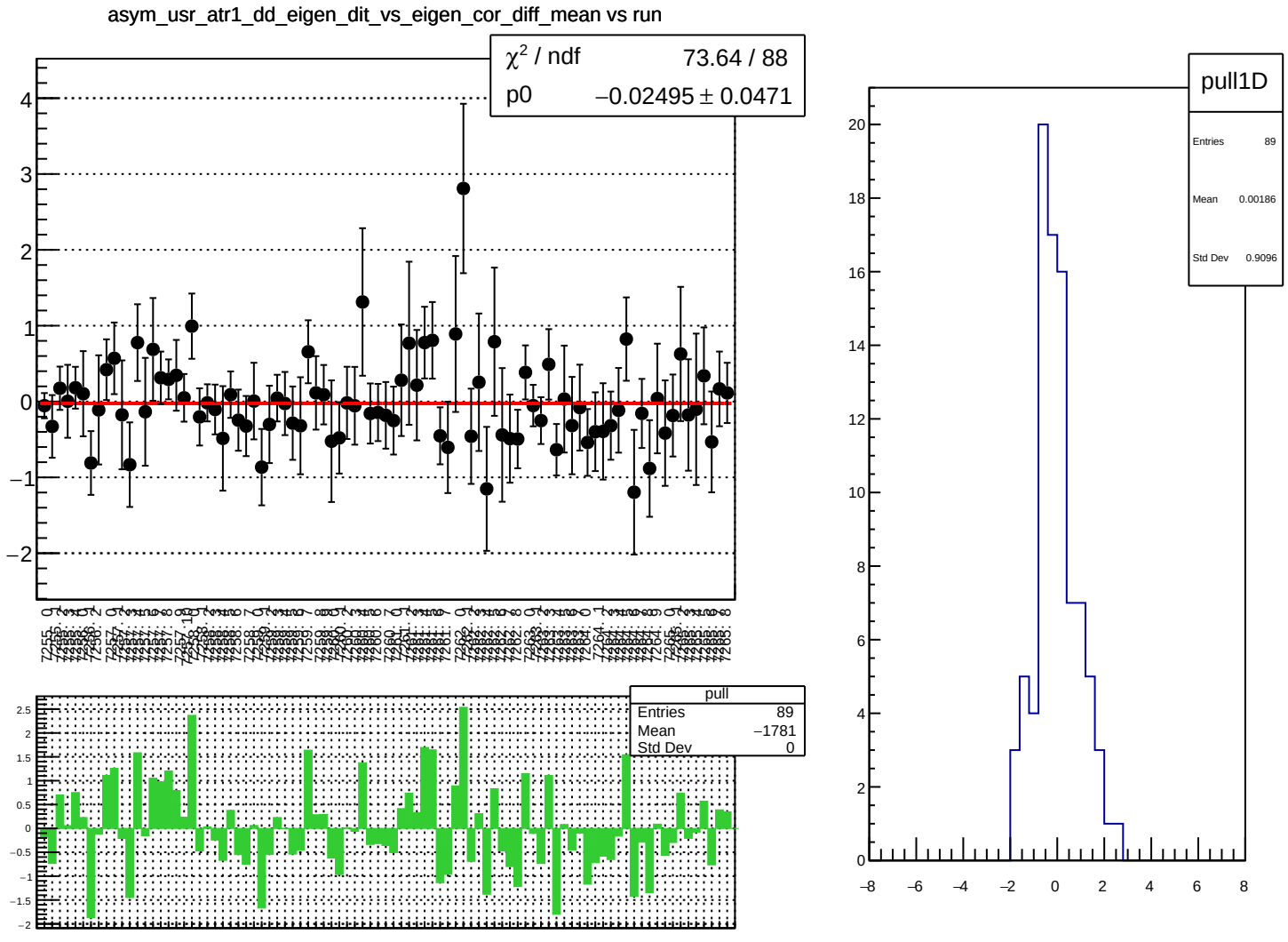

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.48 / 88
p0 2.07e−06 ± 3.869e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean −928.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.003305
Std Dev 0.9685
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

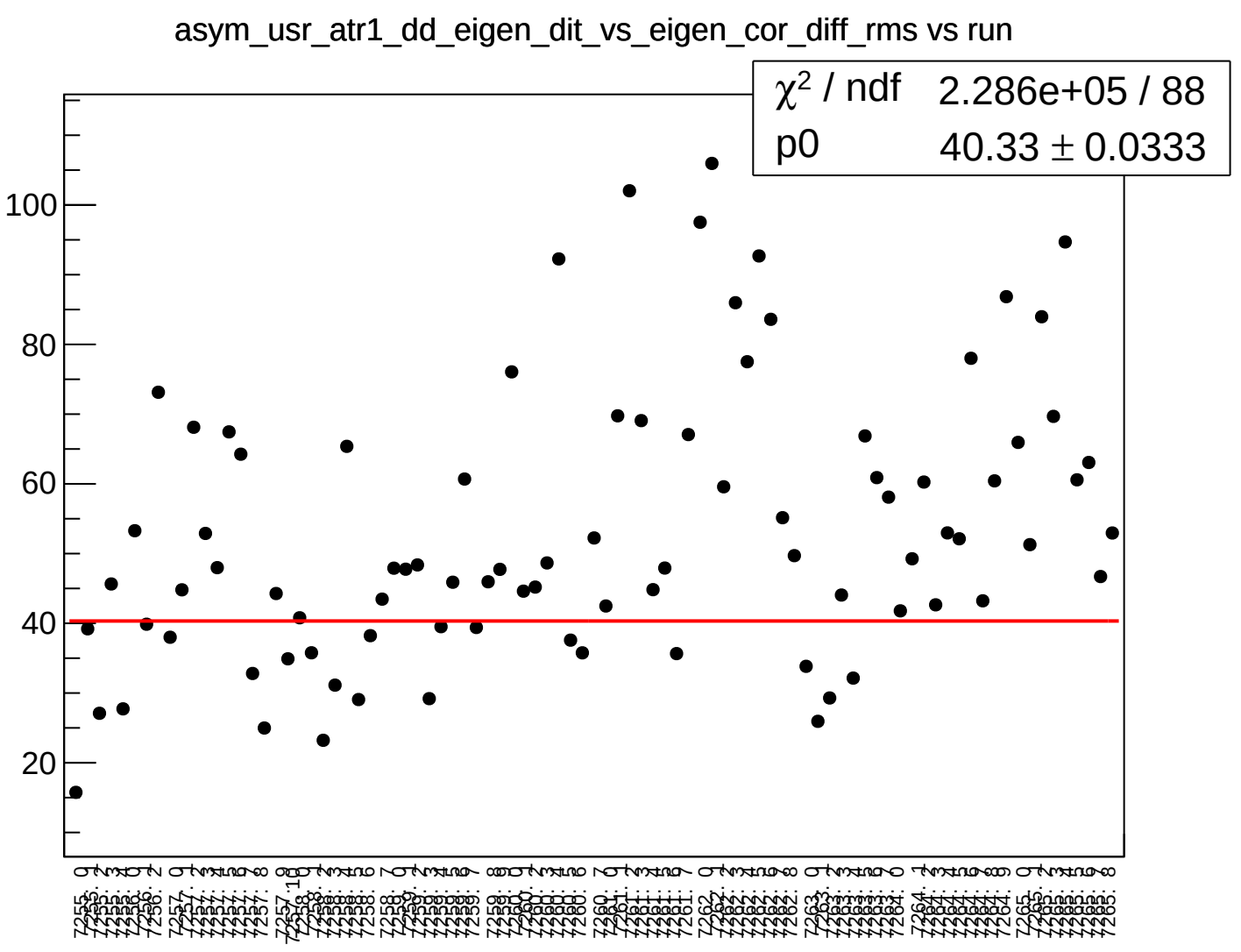

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5475 / 88
p0 0.003556 ± 2.736e−06
0.004
0.0038
0.0036
0.0034
0.0032

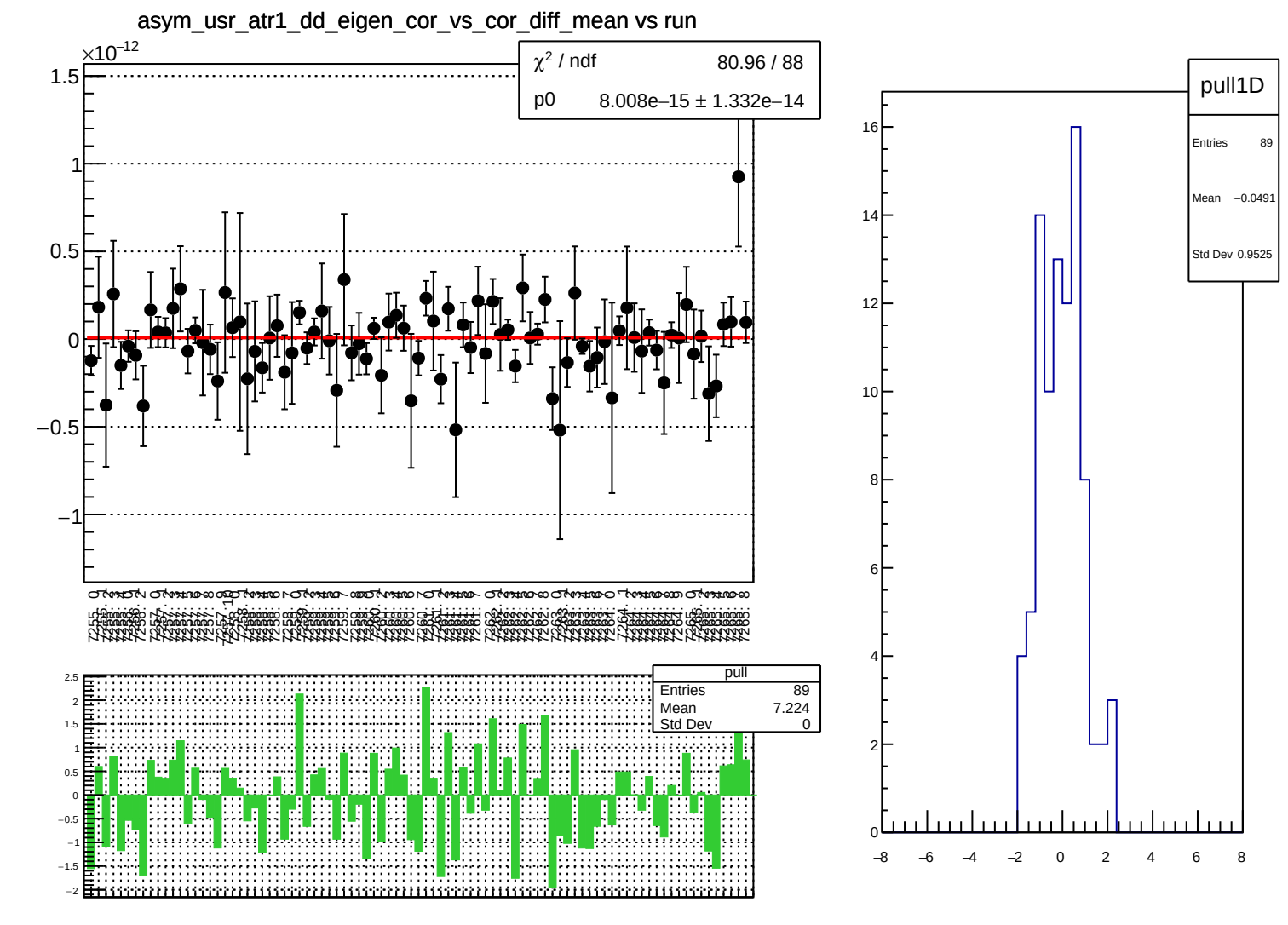

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.64 / 88
p0 −0.02495 ± 0.0471
pull
Entries 89
Mean −1781
Std Dev 0

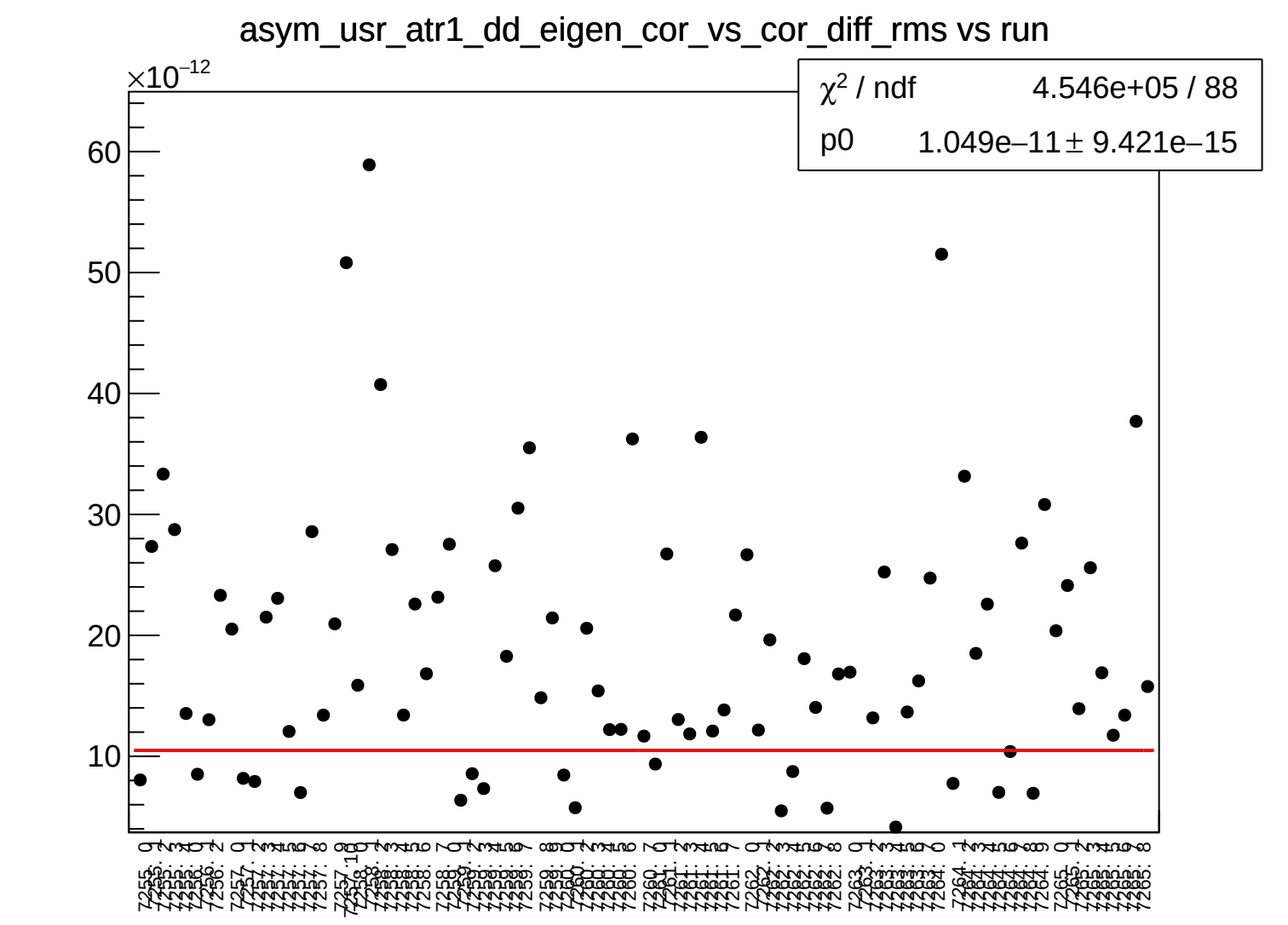

pull1D
Entries 89
Mean 0.00186
Std Dev 0.9096

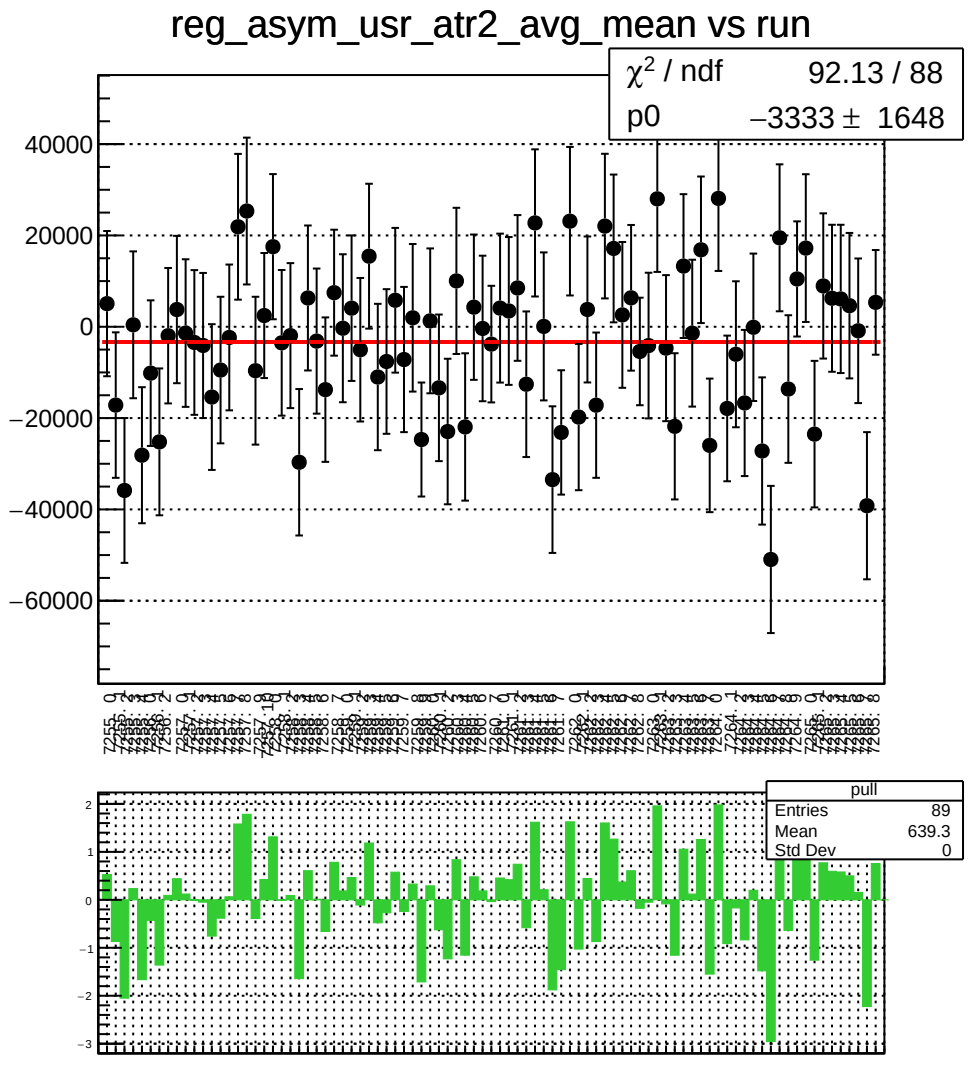

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.286e+05 / 88
p0 40.33 ± 0.0333
100
80
60
40
20

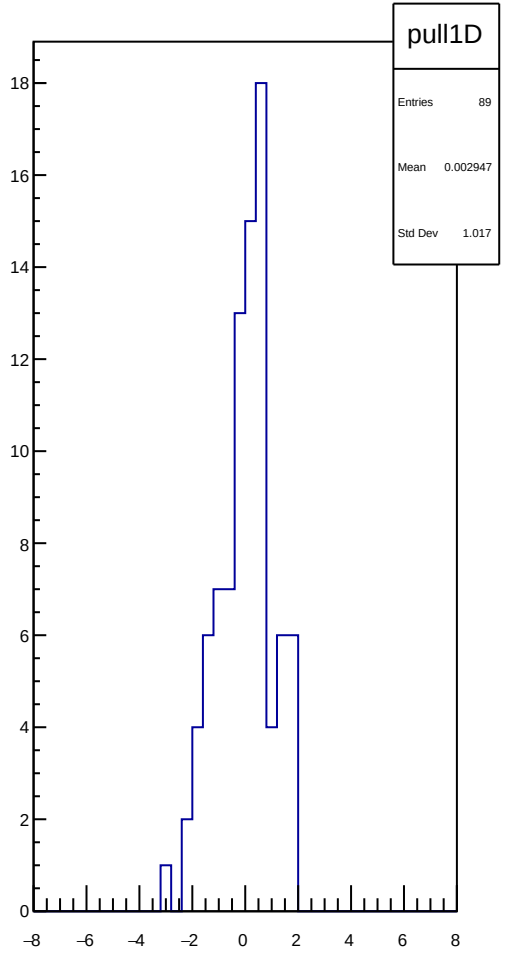

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.64 / 88
p0 −0.02495 ± 0.0471
pull
Entries 89
Mean −1781
Std Dev 0
pull1D
Entries 89
Mean 0.00186
Std Dev 0.9096

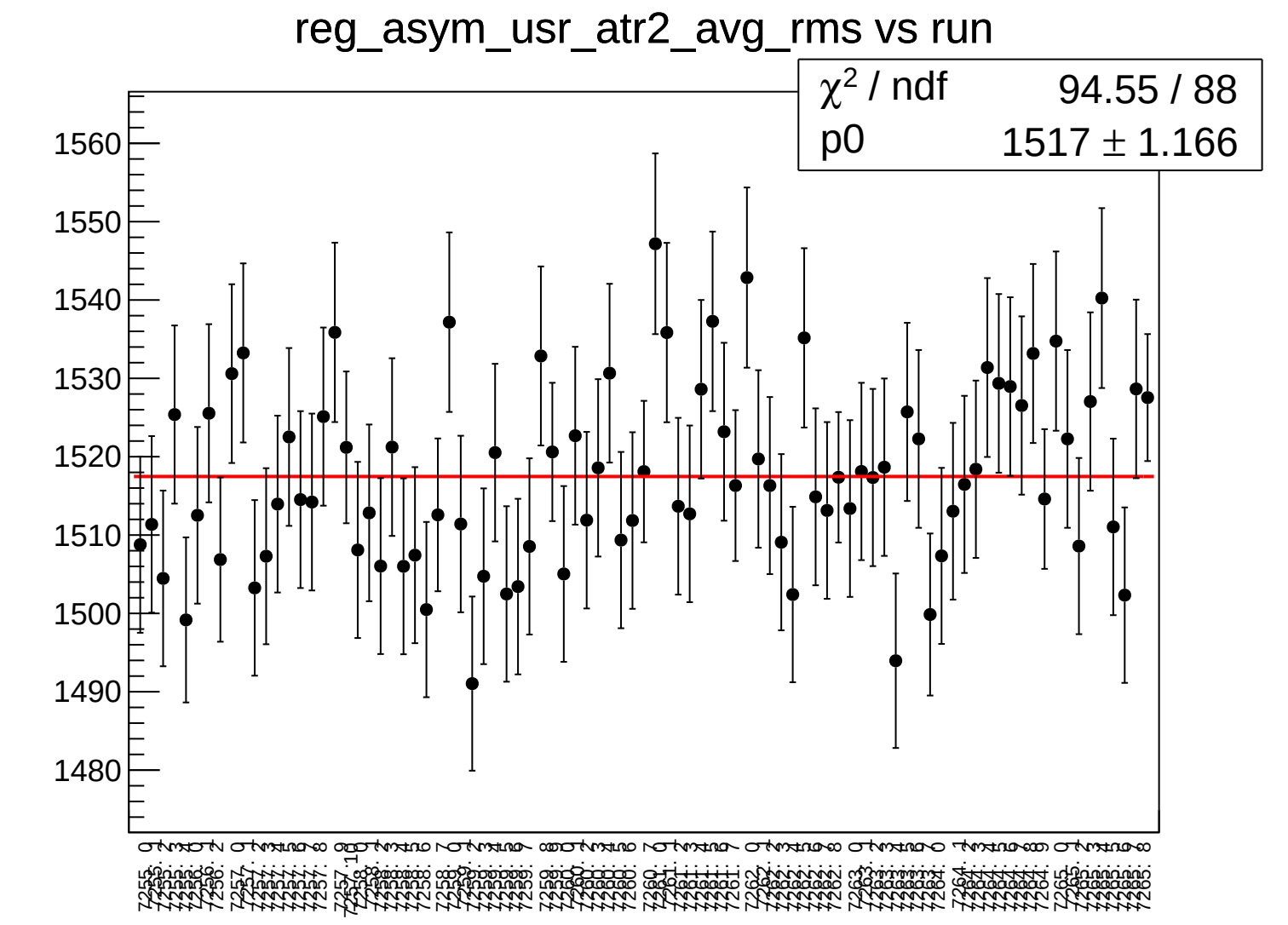

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.286e+05 / 88
p0 40.33 ± 0.0333
100
80
60
40
20

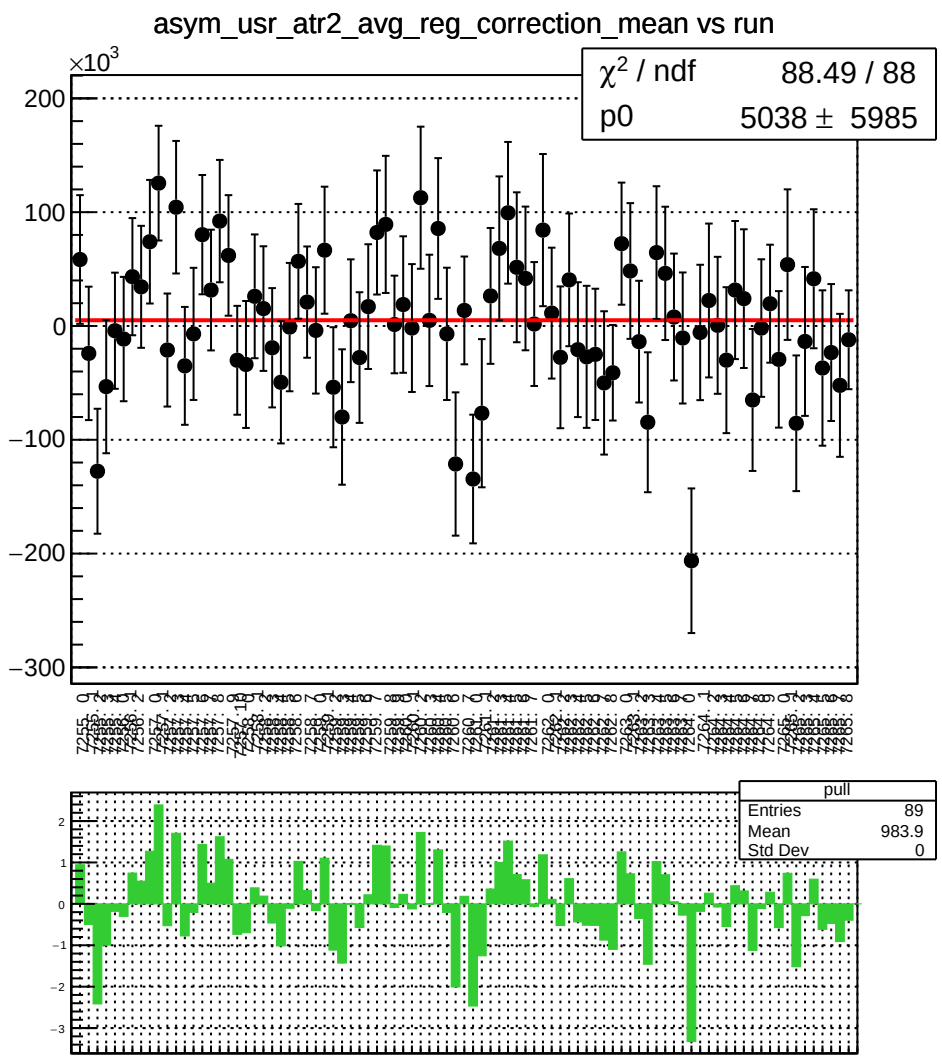

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.96 / 88
p0 8.008e−15 ± 1.332e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 89
Mean 7.224
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.0491
Std Dev 0.9525
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

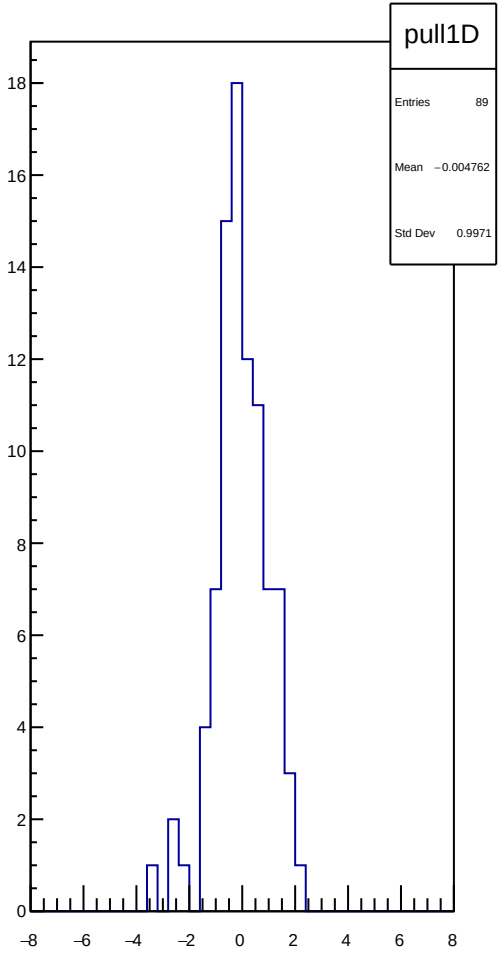

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.546e+05 / 88
p0 1.049e−11 ± 9.421e−15
60
50
40
30
20
10

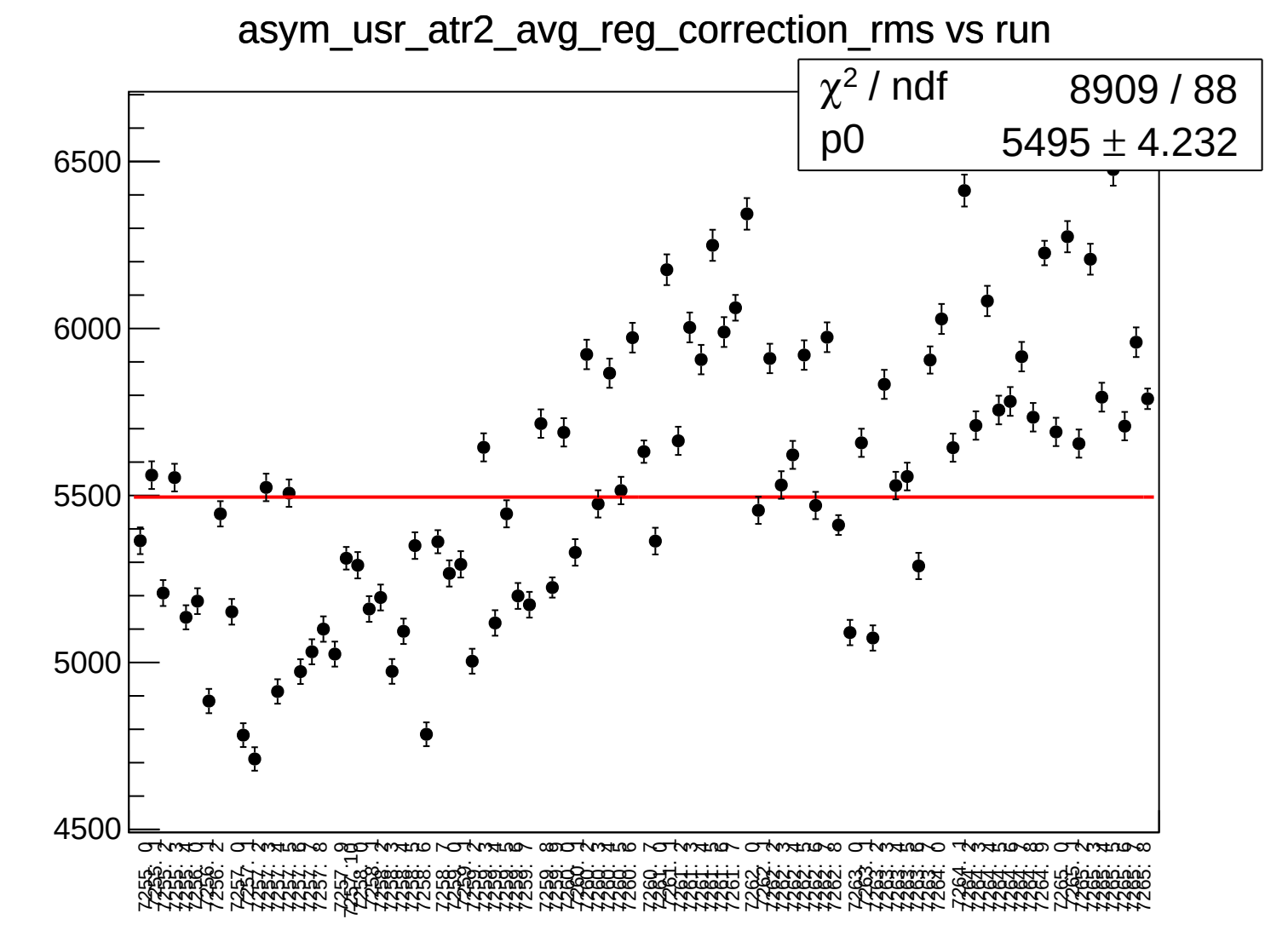

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 92.13 / 88
p0 −3333 ± 1648
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 639.3
Std Dev 0
2
1
0
−1
−2
−3

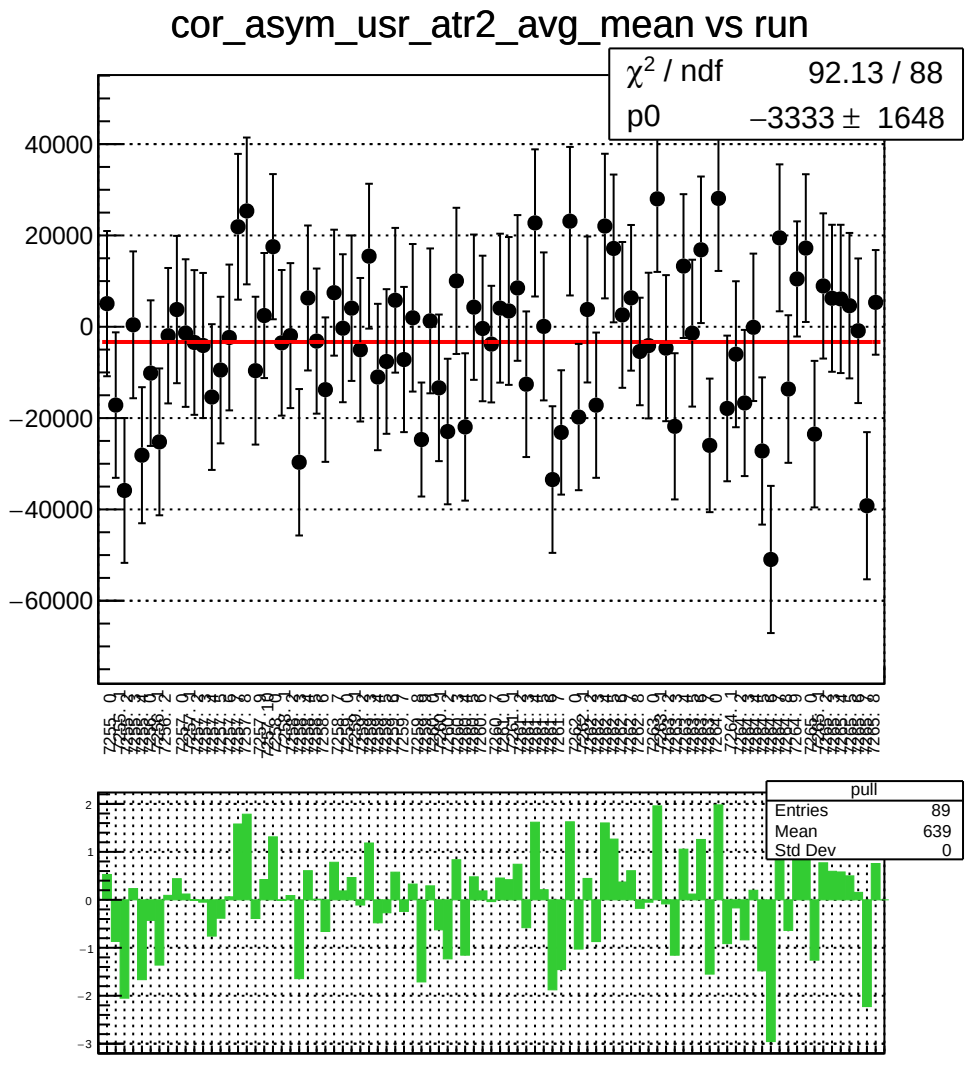

pull1D
Entries 89
Mean 0.002947
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

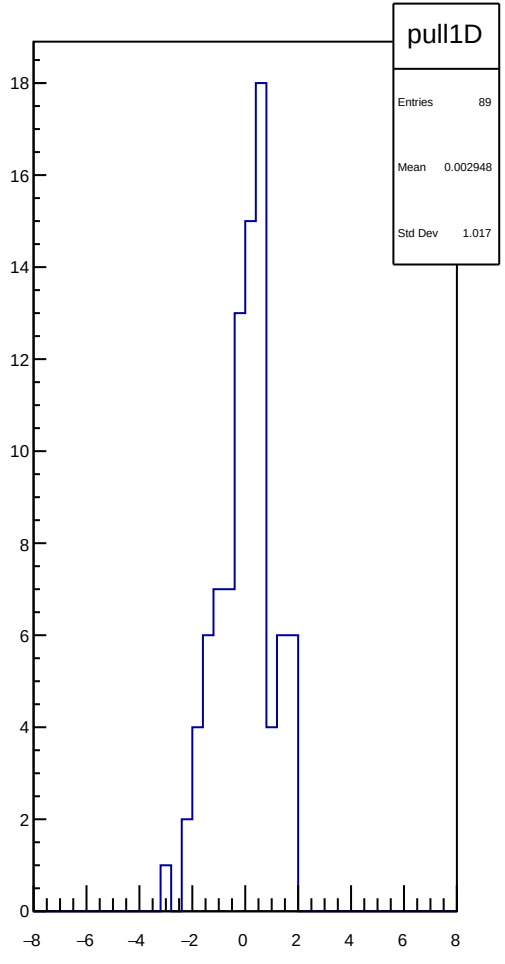

reg_asym_usr_atr2_avg_rms vs run
χ^2 / ndf 94.55 / 88
p0 1517 ± 1.166
1560
1550
1540
1530
1520
1510
1500
1490
1480

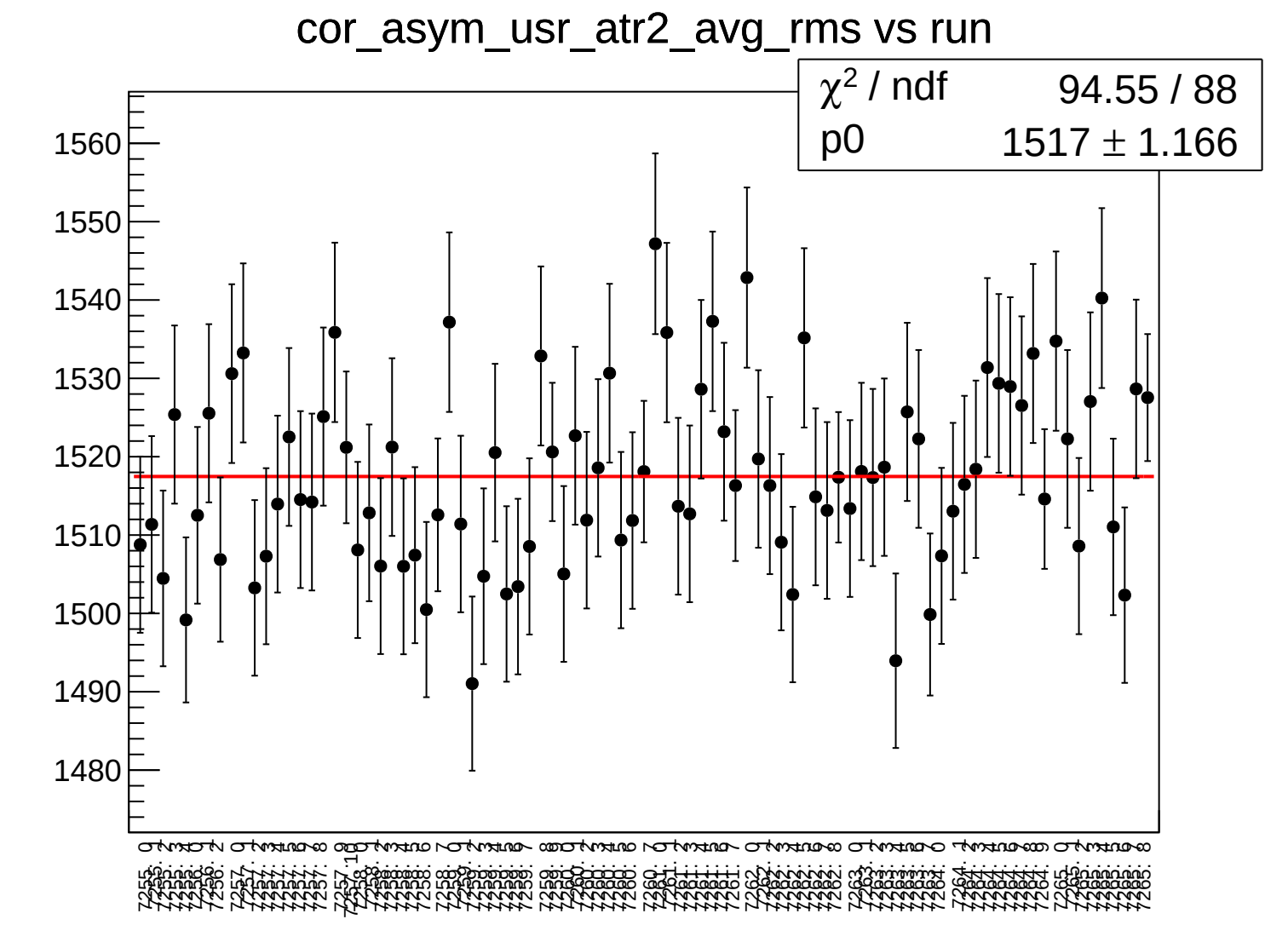

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 88.49 / 88
p0 5038 ± 5985
pull
Entries 89
Mean 983.9
Std Dev 0

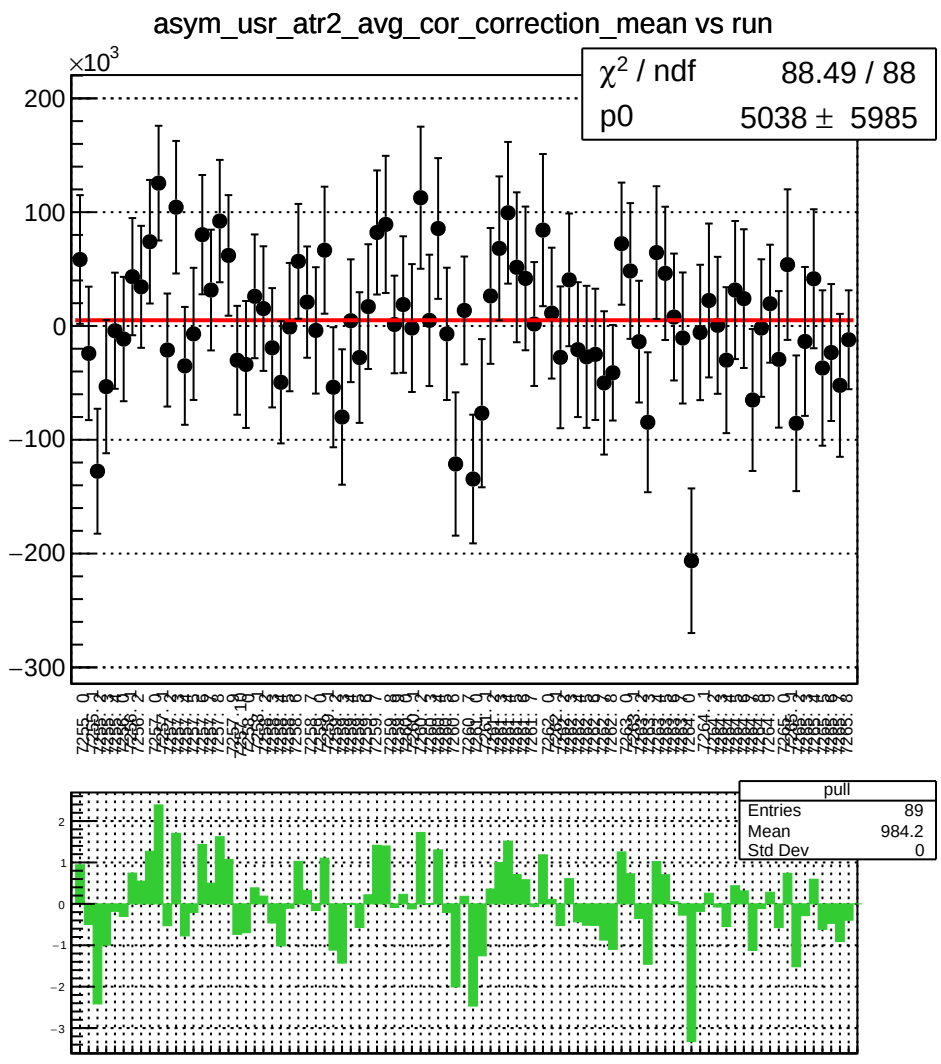

pull1D
Entries 89
Mean −0.004762
Std Dev 0.9971

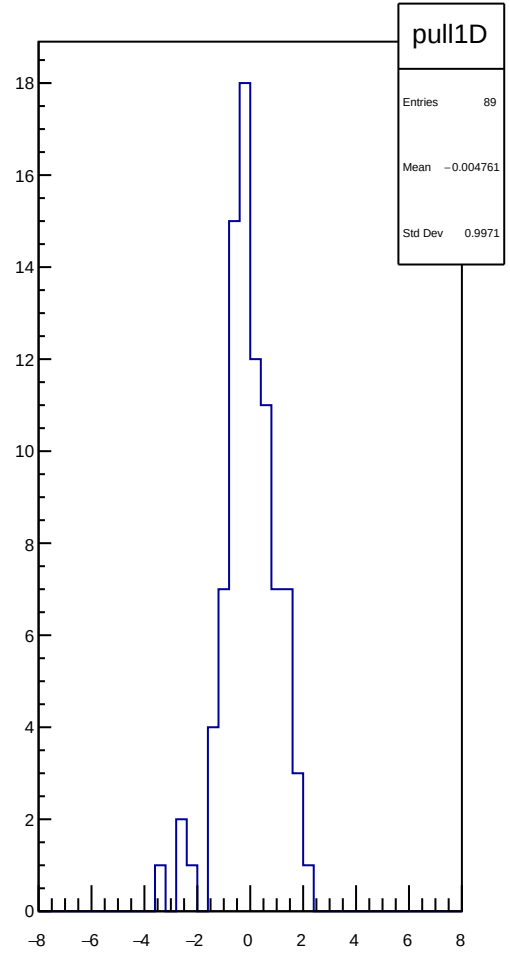

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 8909 / 88
p0 5495 ± 4.232
6500
6000
5500
5000
4500

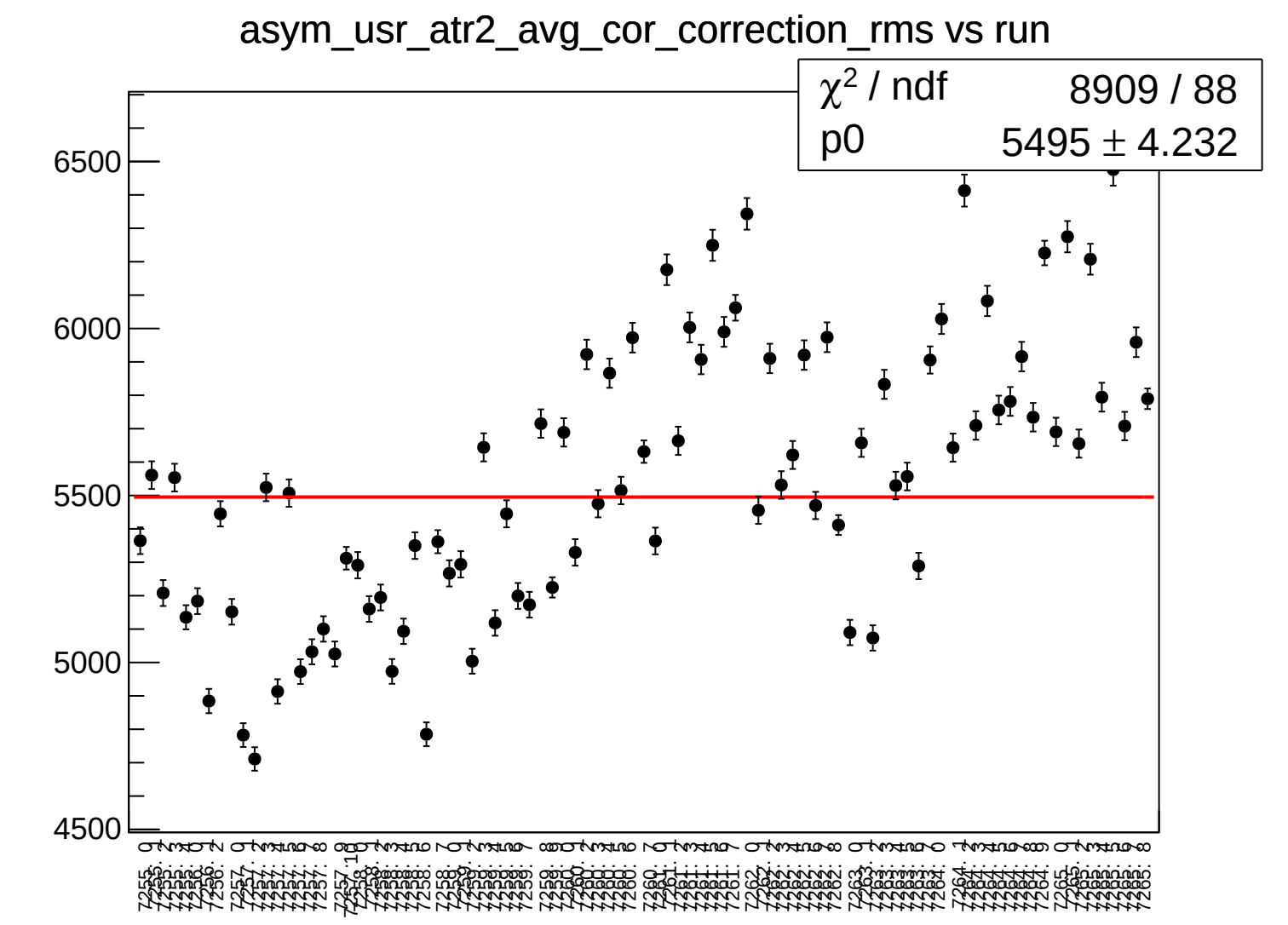

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 92.13 / 88
p0 −3333 ± 1648
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 639
Std Dev 0
2
1
0
−1
−2
−3

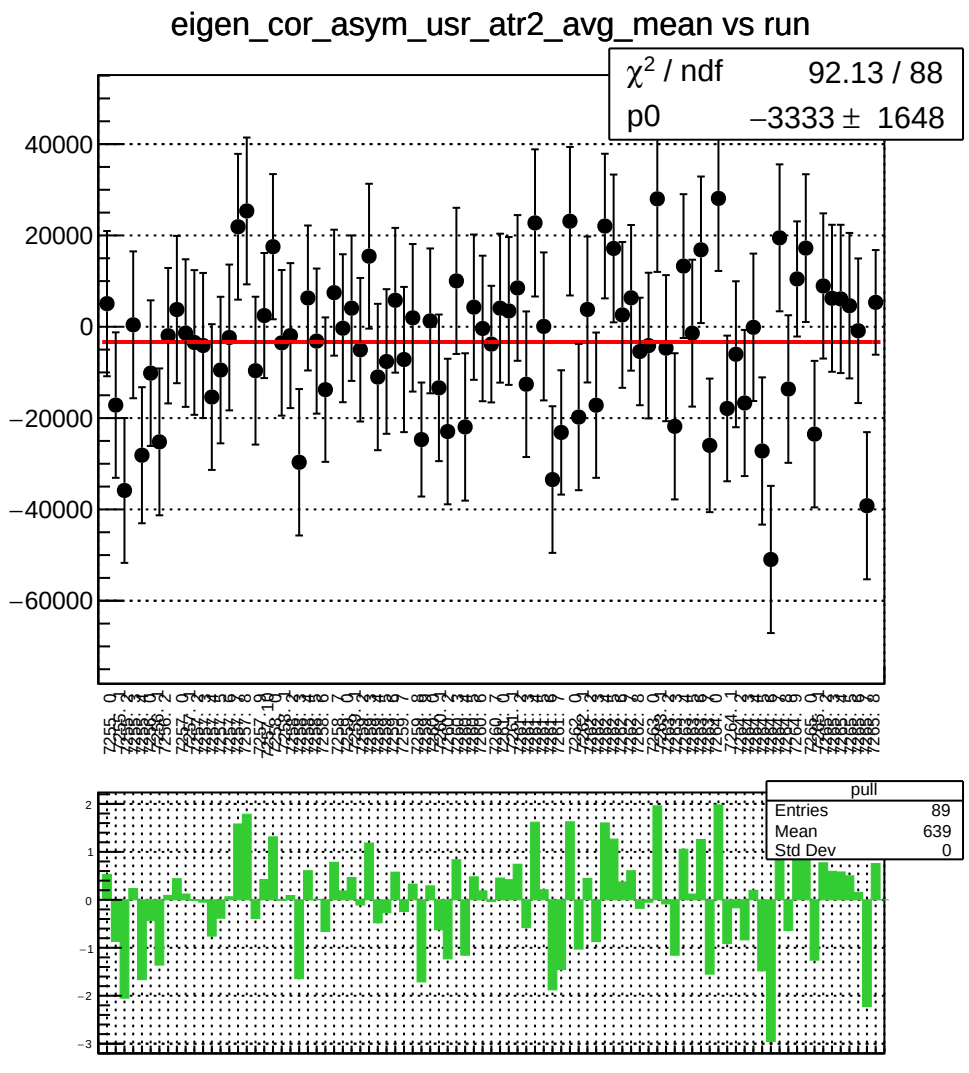

pull1D
Entries 89
Mean 0.002948
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

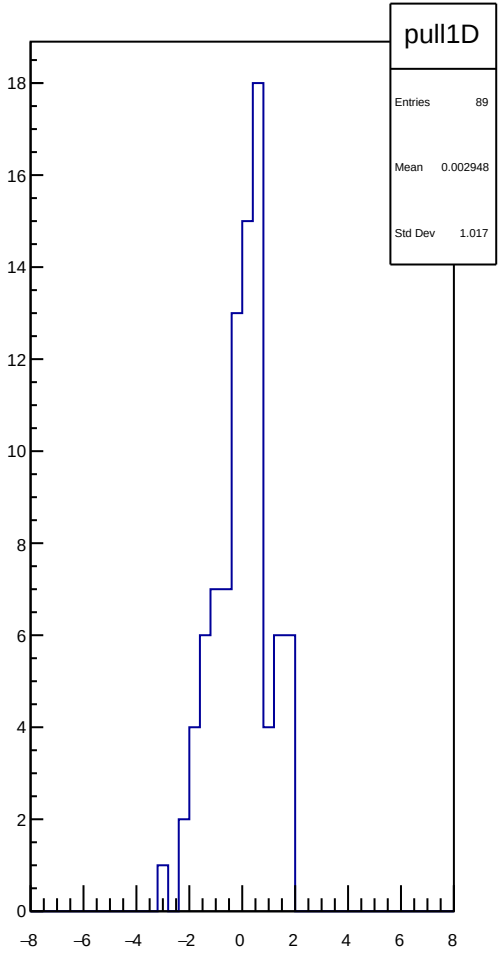

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 94.55 / 88
p0 1517 ± 1.166
1560
1550
1540
1530
1520
1510
1500
1490
1480

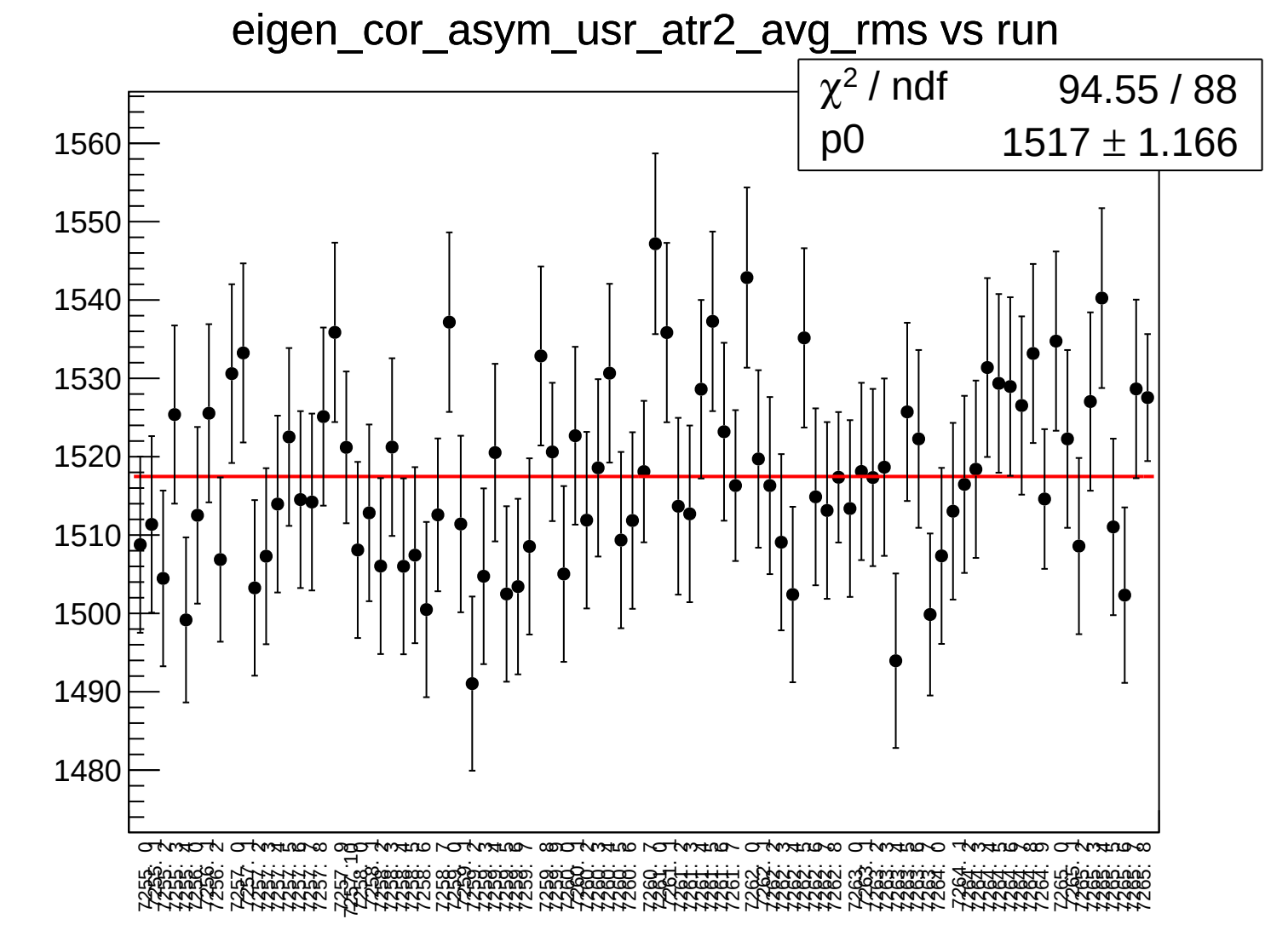

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 88.49 / 88
p0 5038 ± 5985
pull
Entries 89
Mean 984.2
Std Dev 0

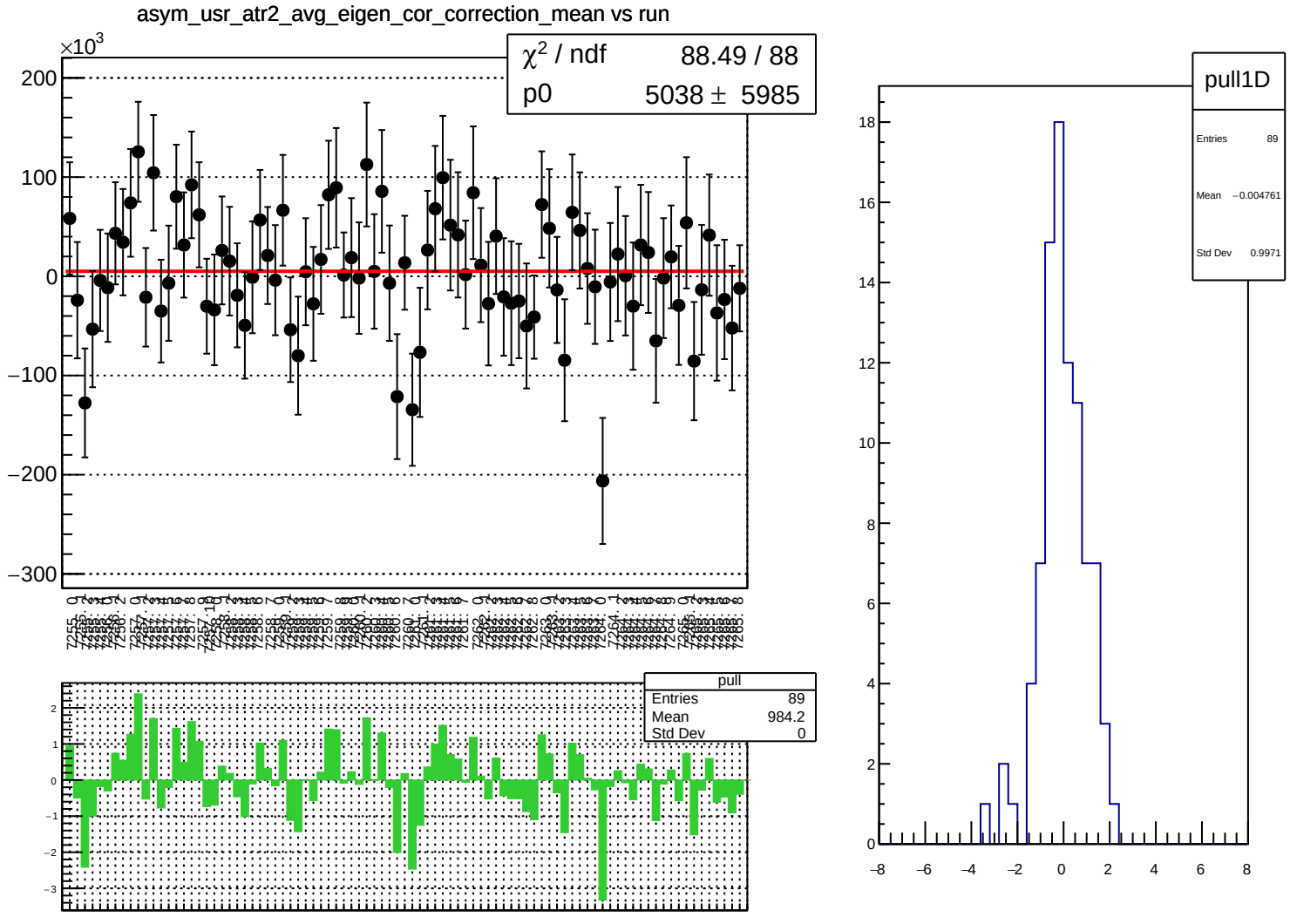

pull1D
Entries 89
Mean −0.004761
Std Dev 0.9971

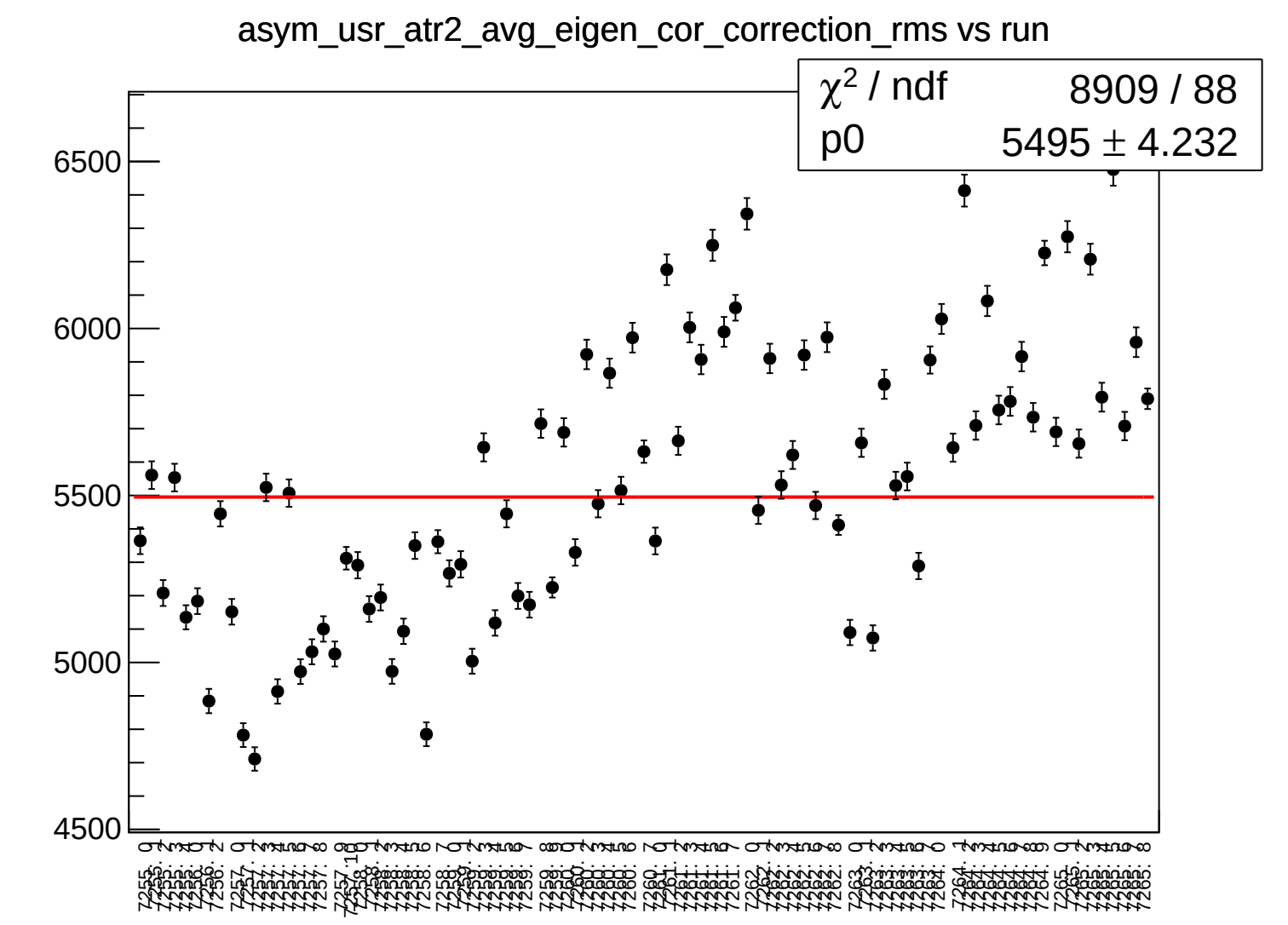

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 8909 / 88
p0 5495 ± 4.232
6500
6000
5500
5000
4500

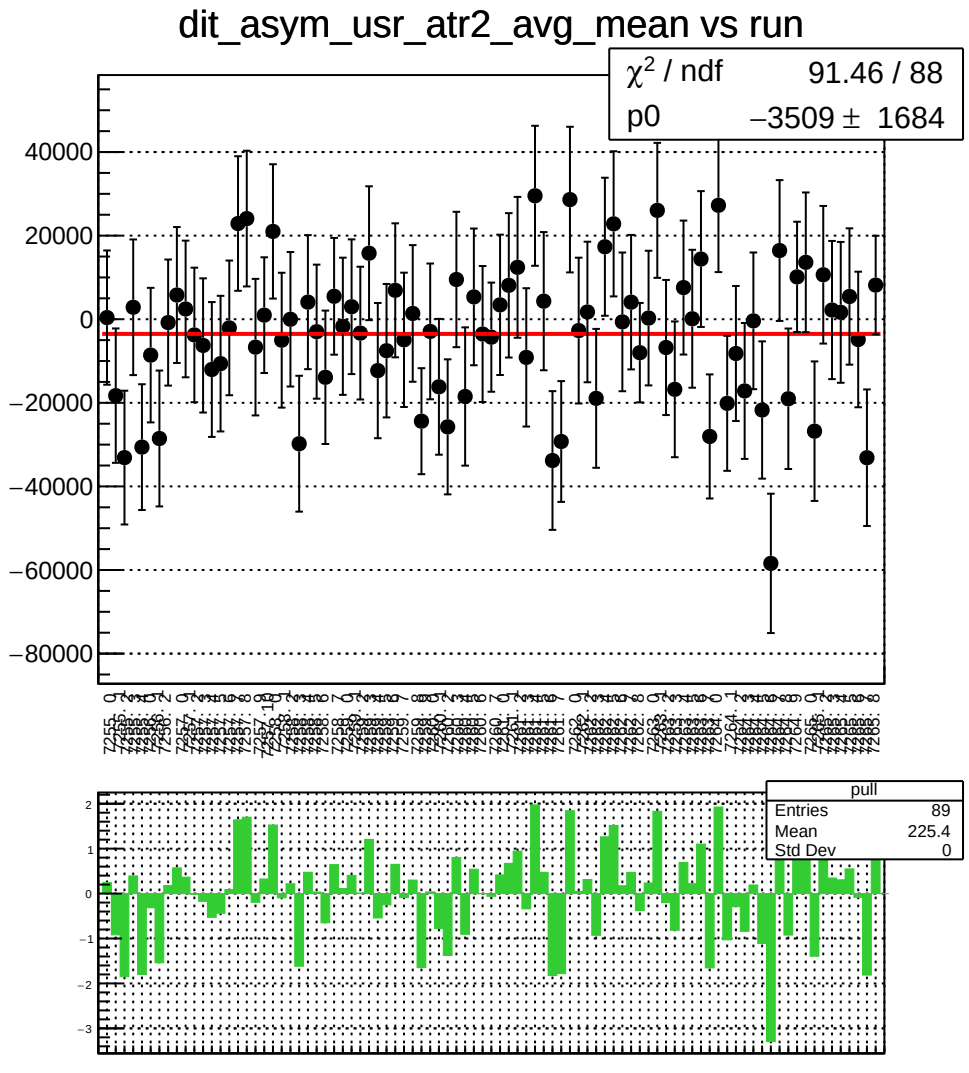

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 92.13 / 88
p0 −3333 ± 1648
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 639
Std Dev 0
2
1
0
−1
−2
−3

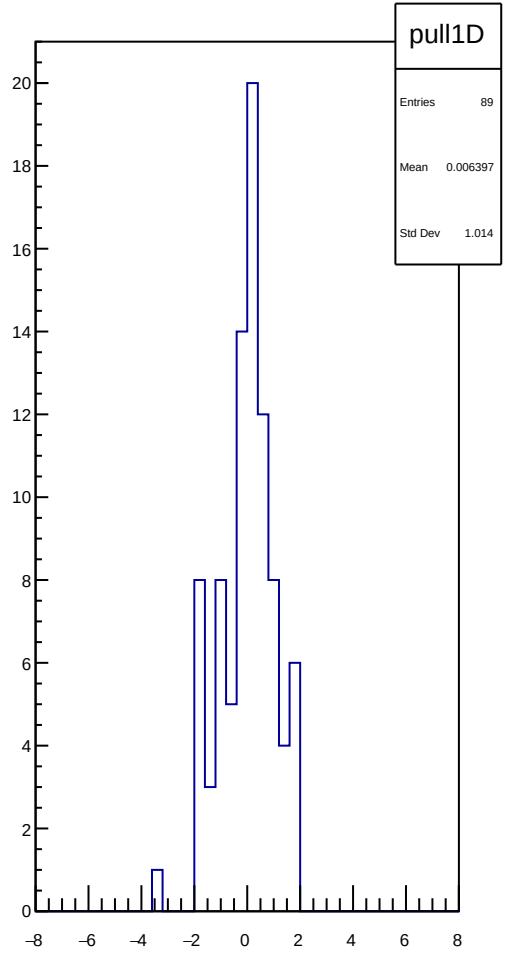

pull1D
Entries 89
Mean 0.002948
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

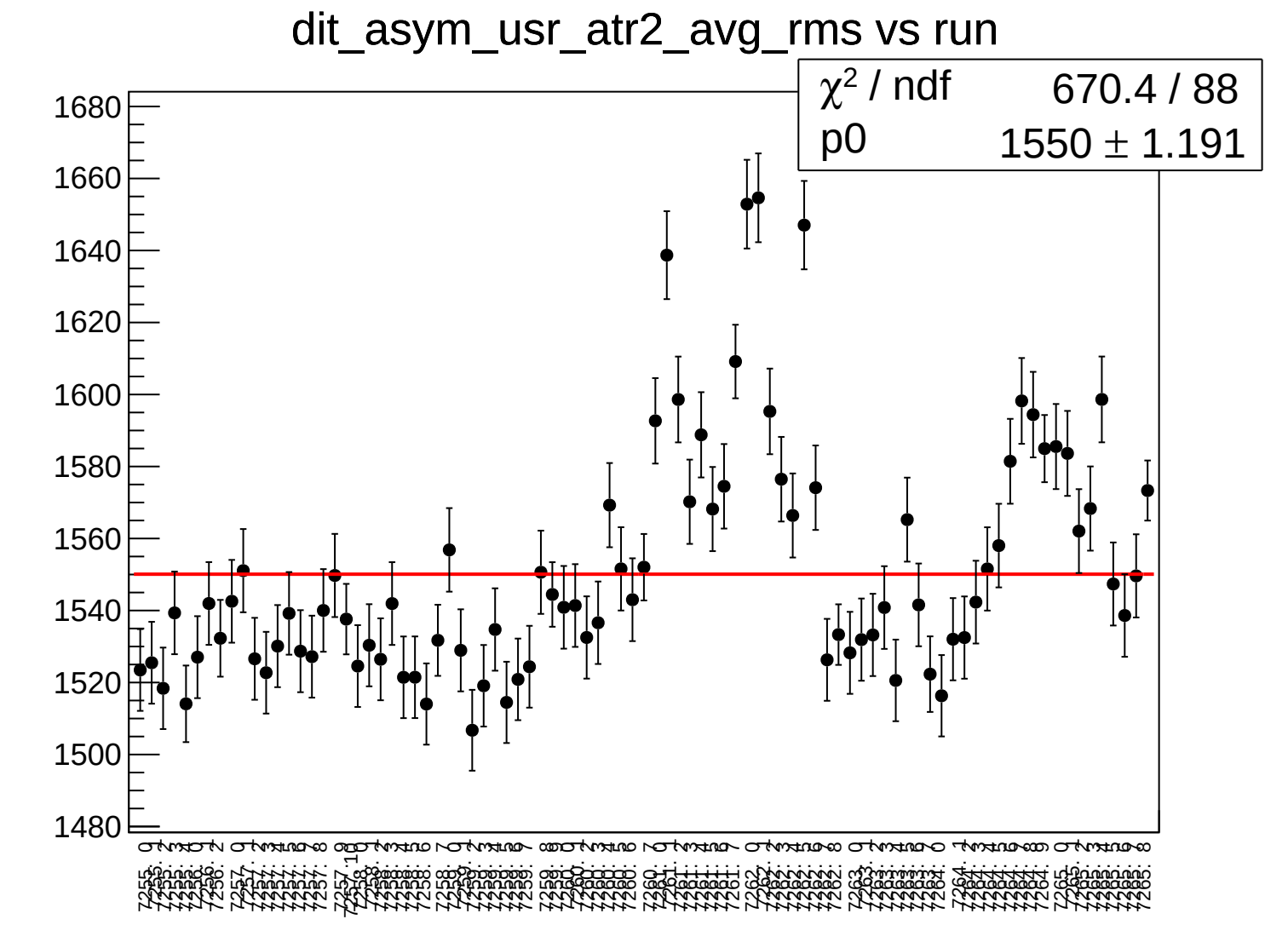

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 94.55 / 88
p0 1517 ± 1.166
1560
1550
1540
1530
1520
1510
1500
1490
1480

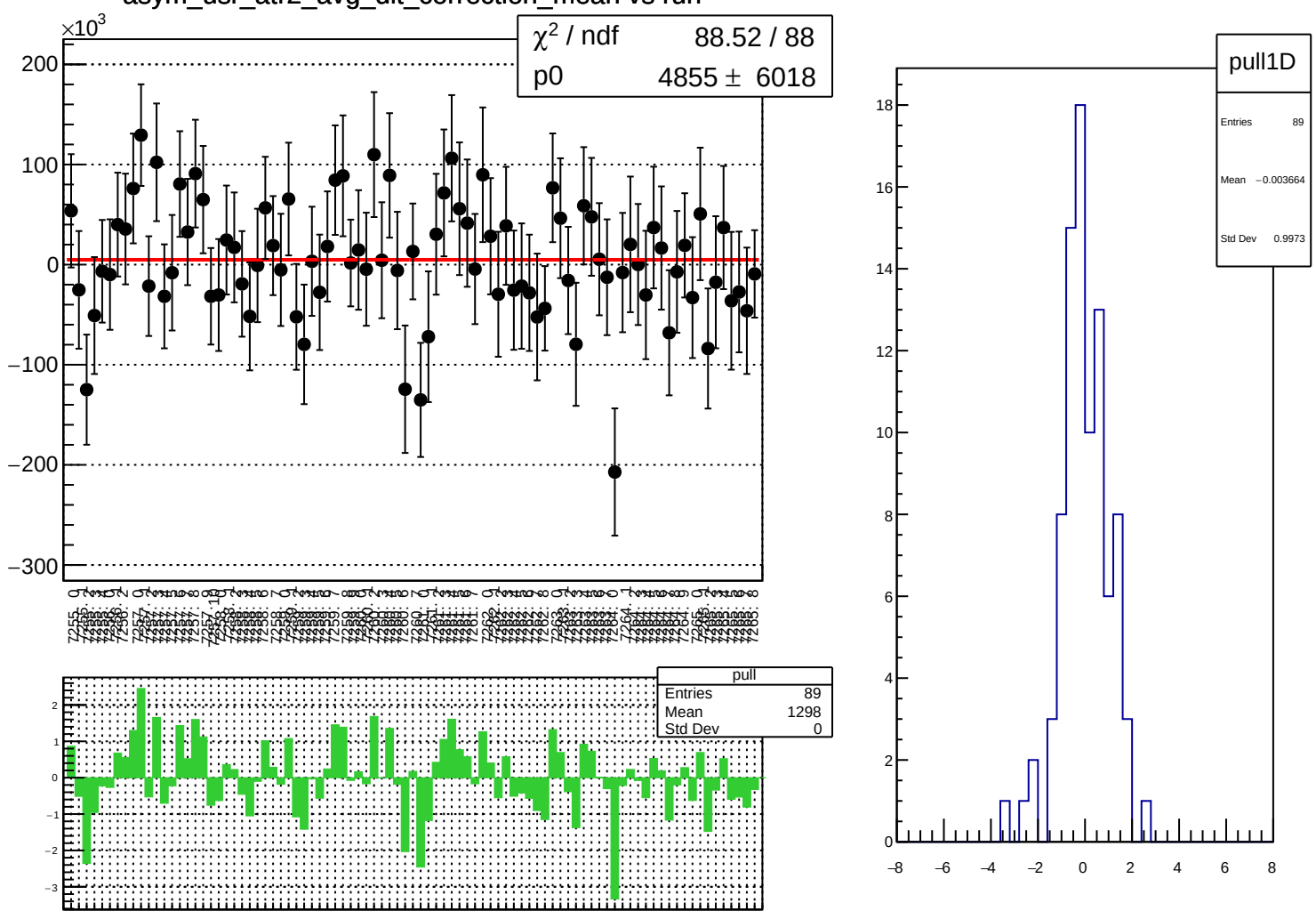

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.49 / 88
p0 5038 ± 5985
pull
Entries 89
Mean 984.2
Std Dev 0
pull1D
Entries 89
Mean −0.004761
Std Dev 0.9971

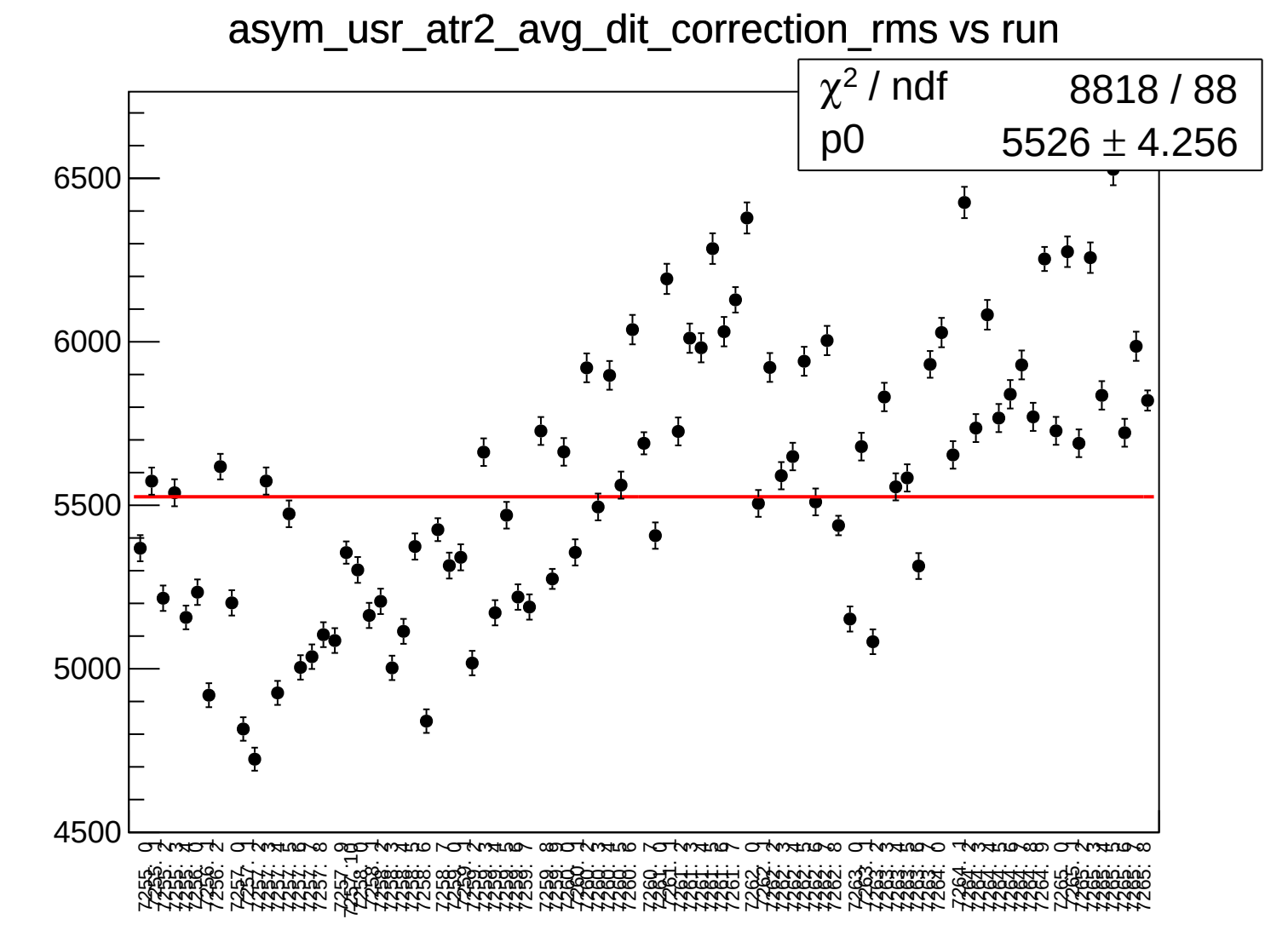

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 8909 / 88
p0 5495 ± 4.232
6500
6000
5500
5000
4500

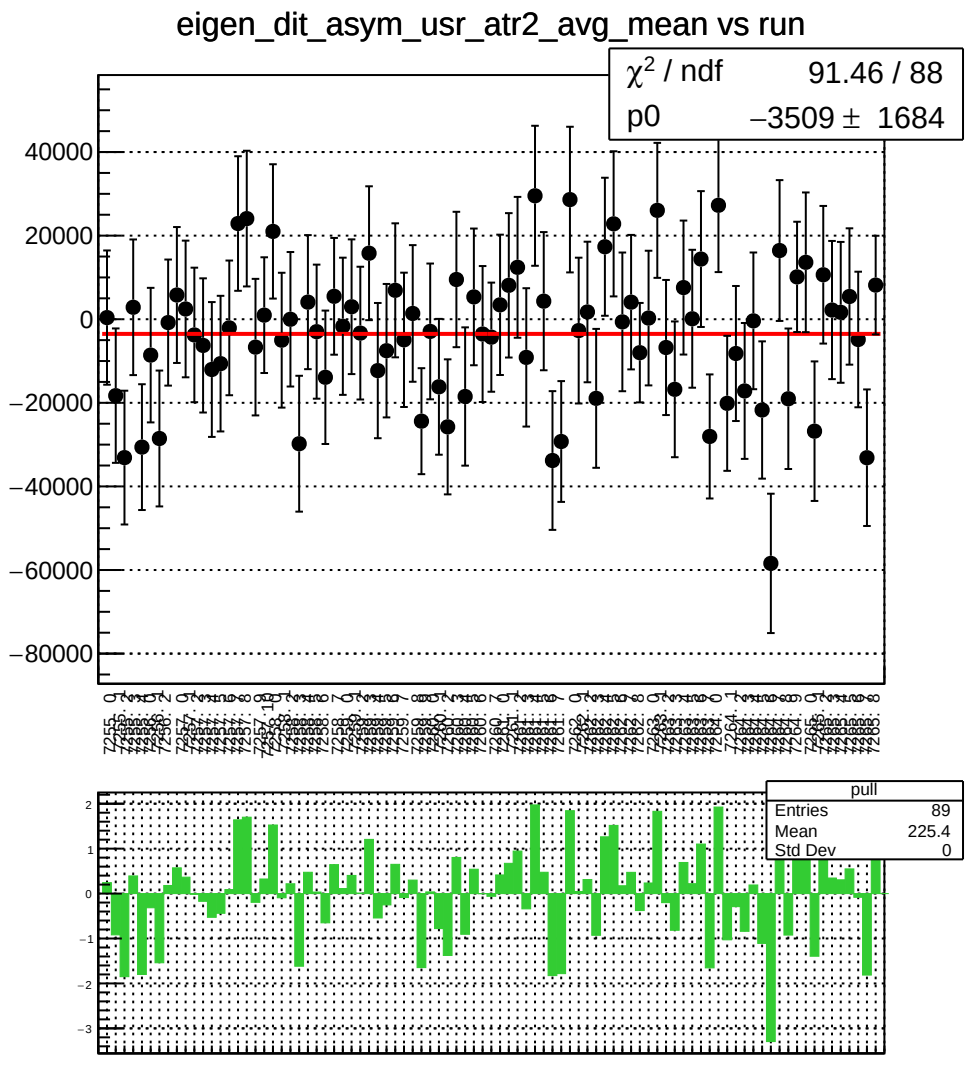

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.46 / 88
p0 −3509 ± 1684
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 225.4
Std Dev 0
2
1
0
−1
−2
−3

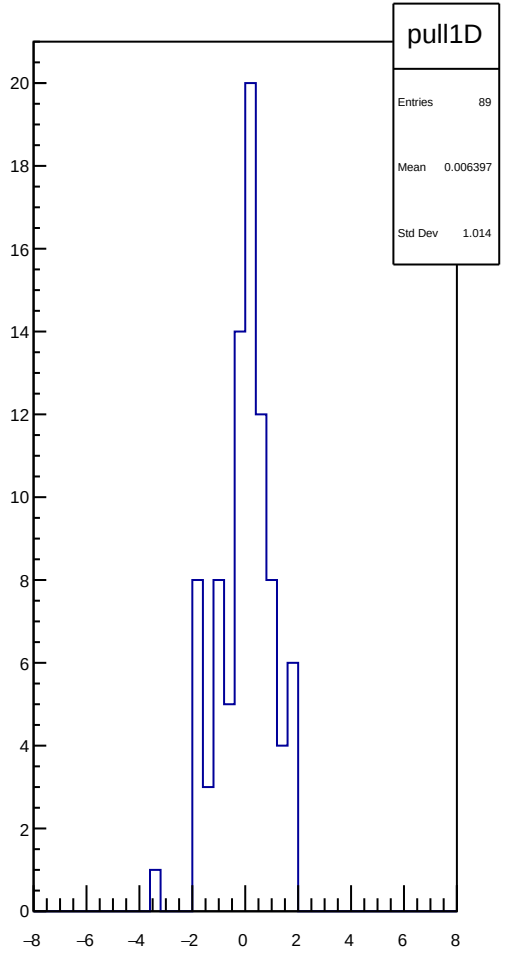

pull1D
Entries 89
Mean 0.006397
Std Dev 1.014
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

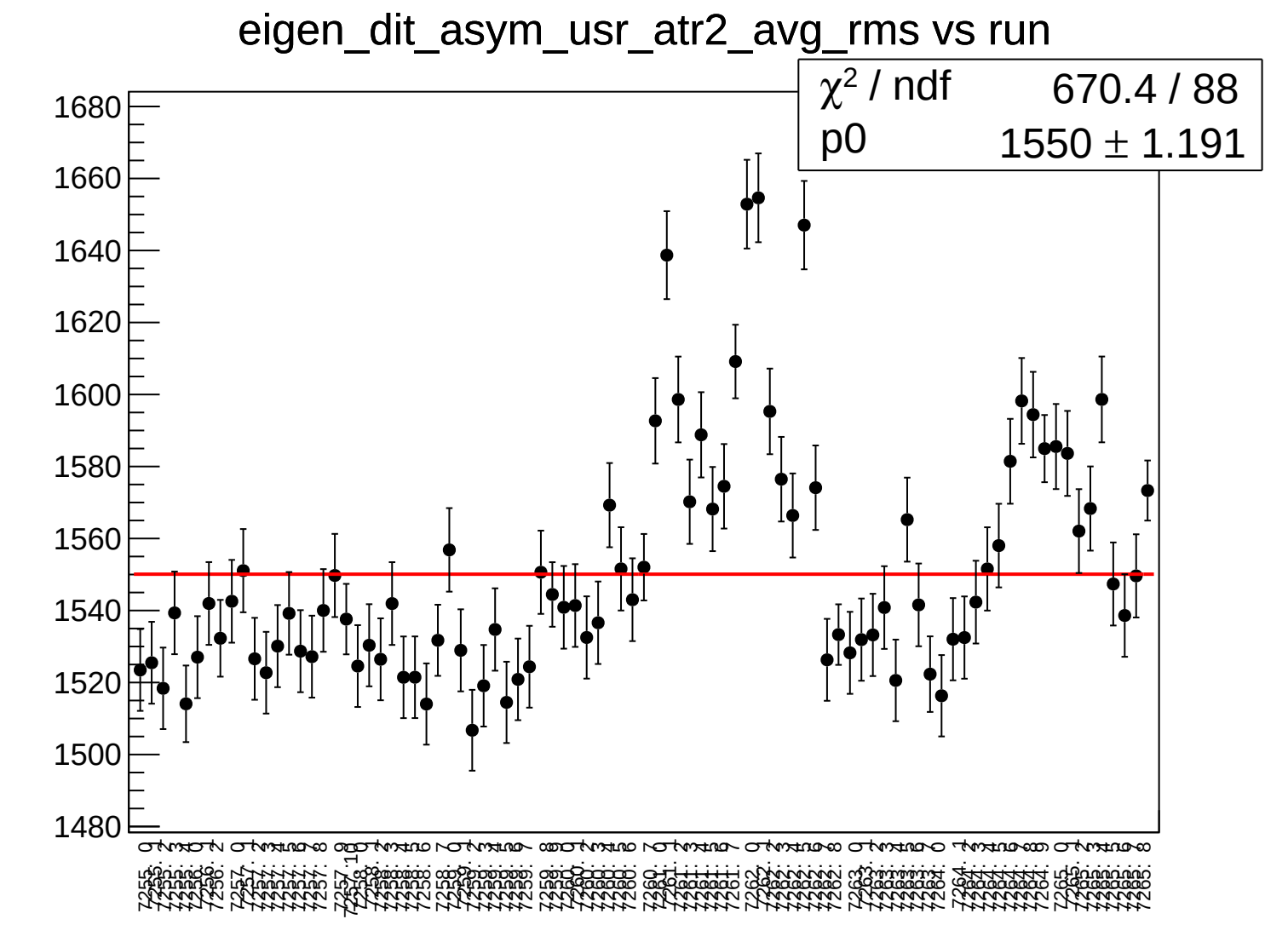

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 670.4 / 88
p0 1550 ± 1.191
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

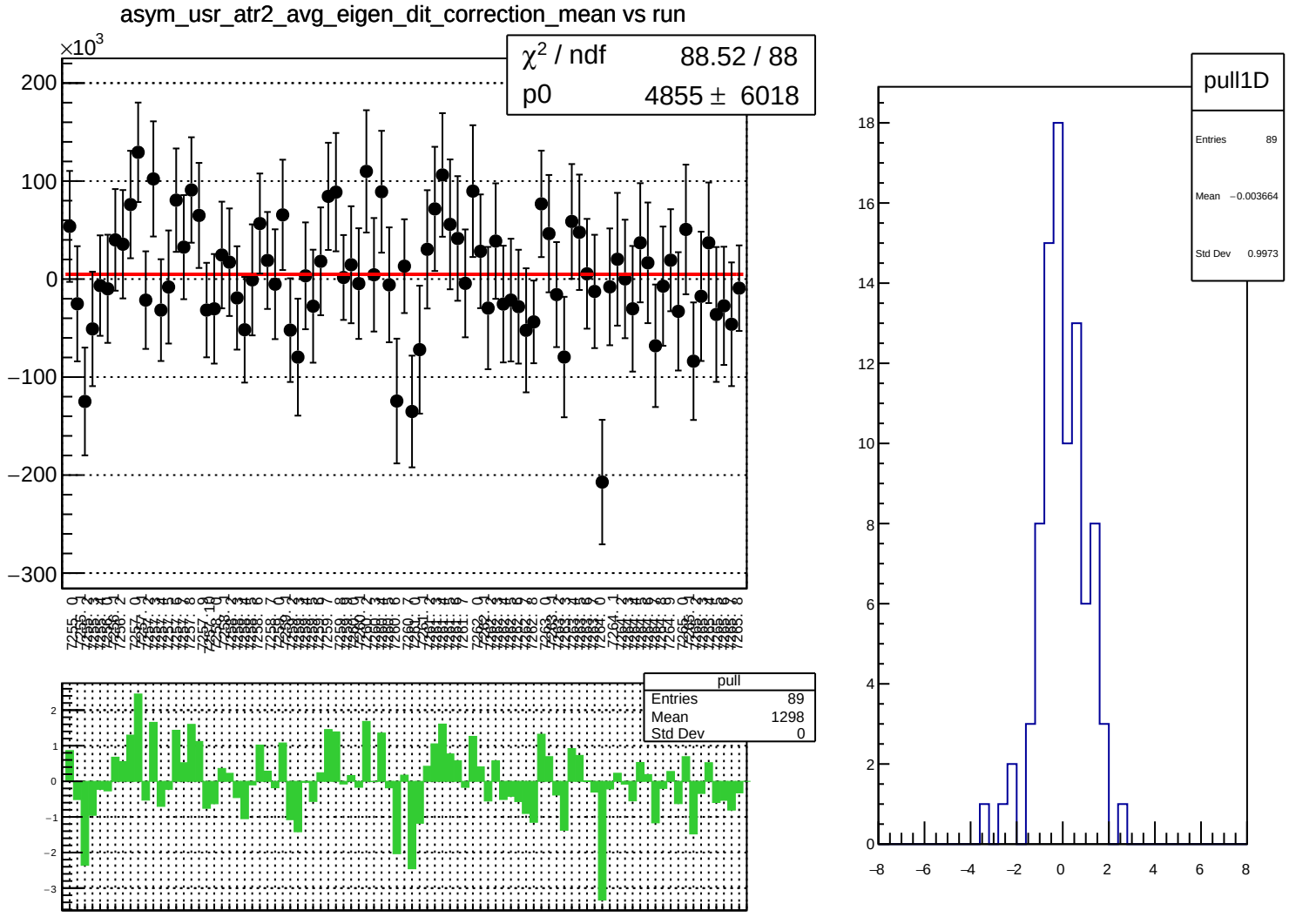

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 88.52 / 88
p0 4855 ± 6018
pull
Entries 89
Mean 1298
Std Dev 0
pull1D
Entries 89
Mean −0.003664
Std Dev 0.9973

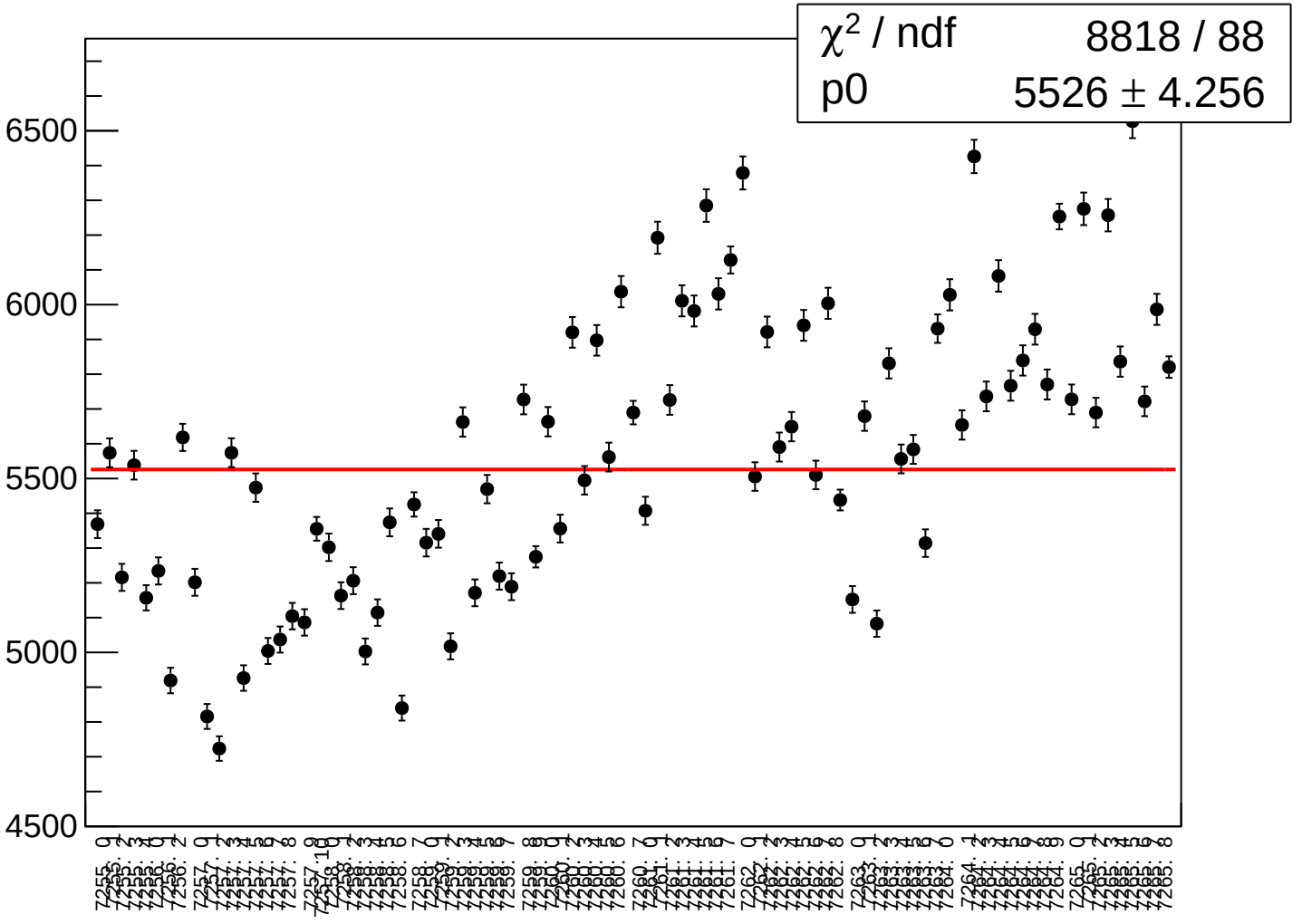

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 8818 / 88
p0 5526 ± 4.256
6500
6000
5500
5000
4500

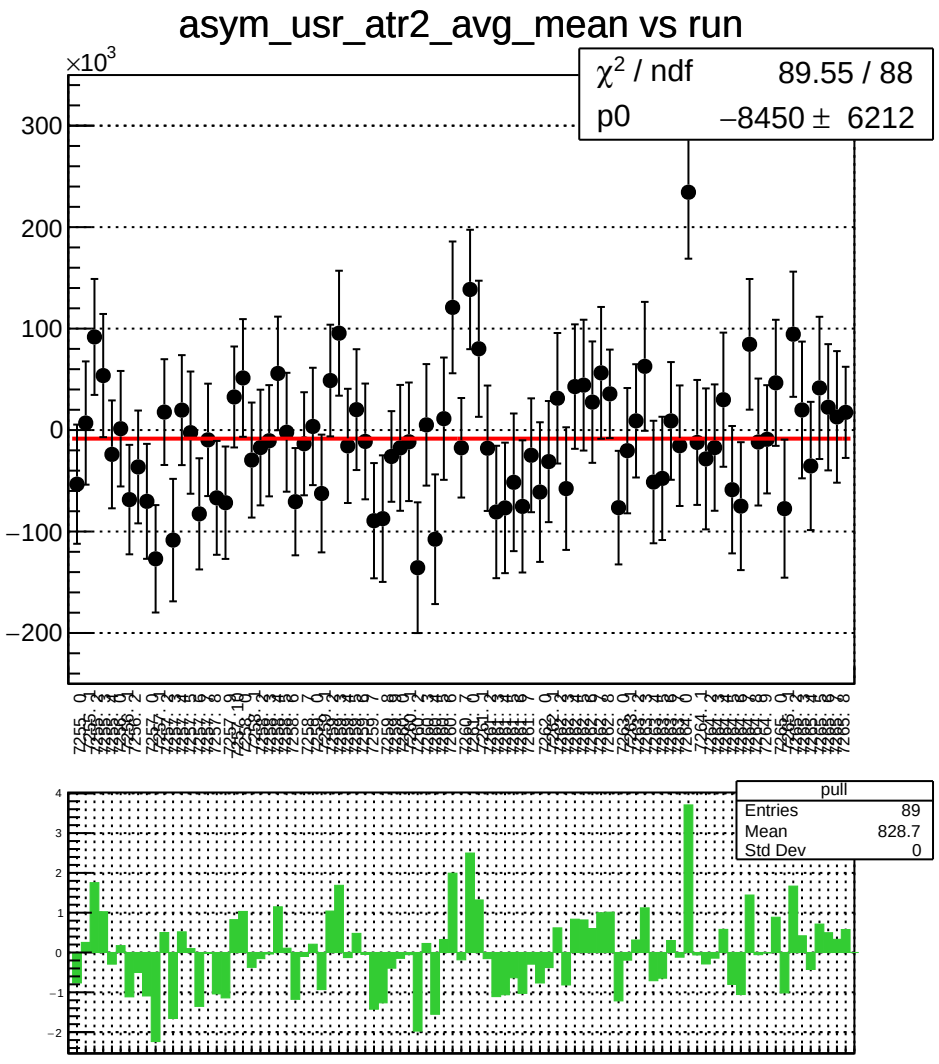

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.46 / 88
p0 −3509 ± 1684
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 225.4
Std Dev 0
2
1
0
−1
−2
−3

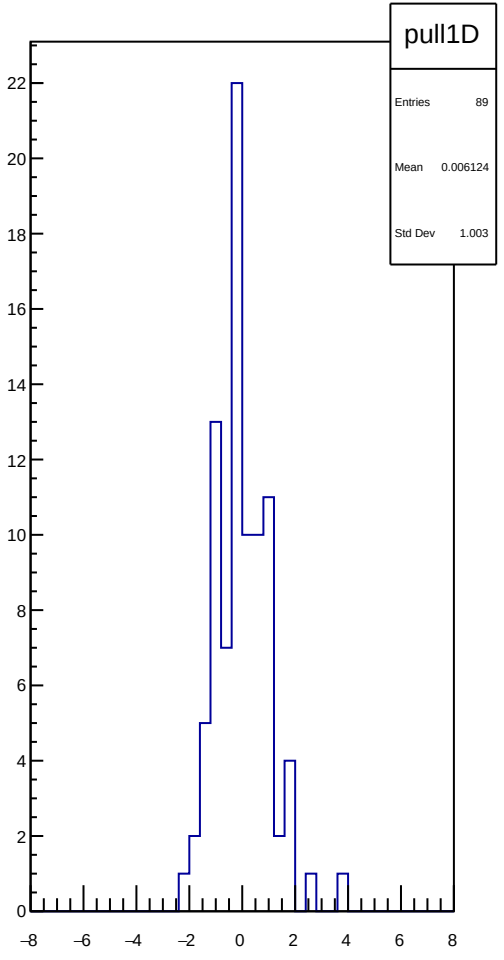

pull1D
Entries 89
Mean 0.006397
Std Dev 1.014
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

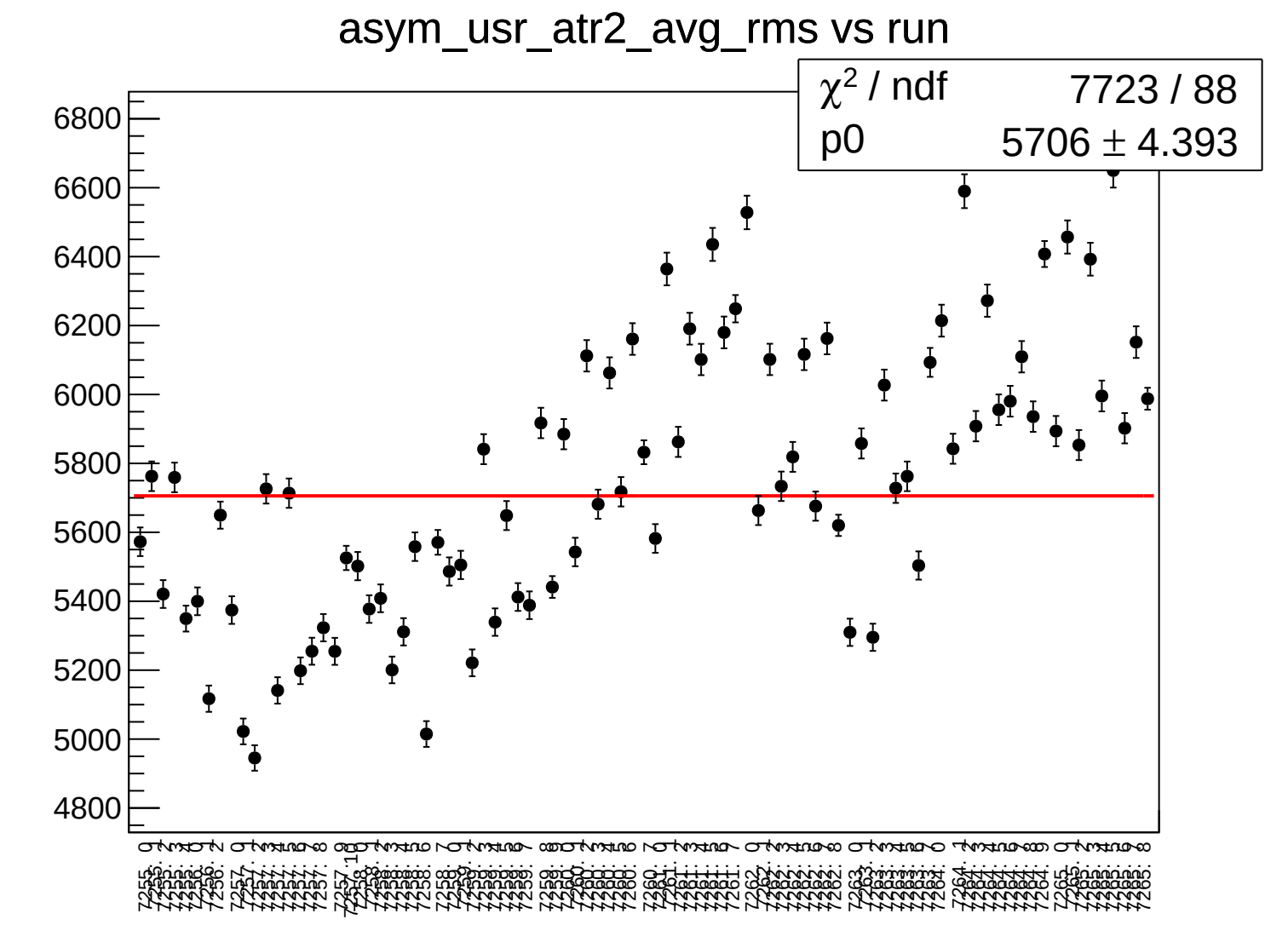

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 670.4 / 88
p0 1550 ± 1.191
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

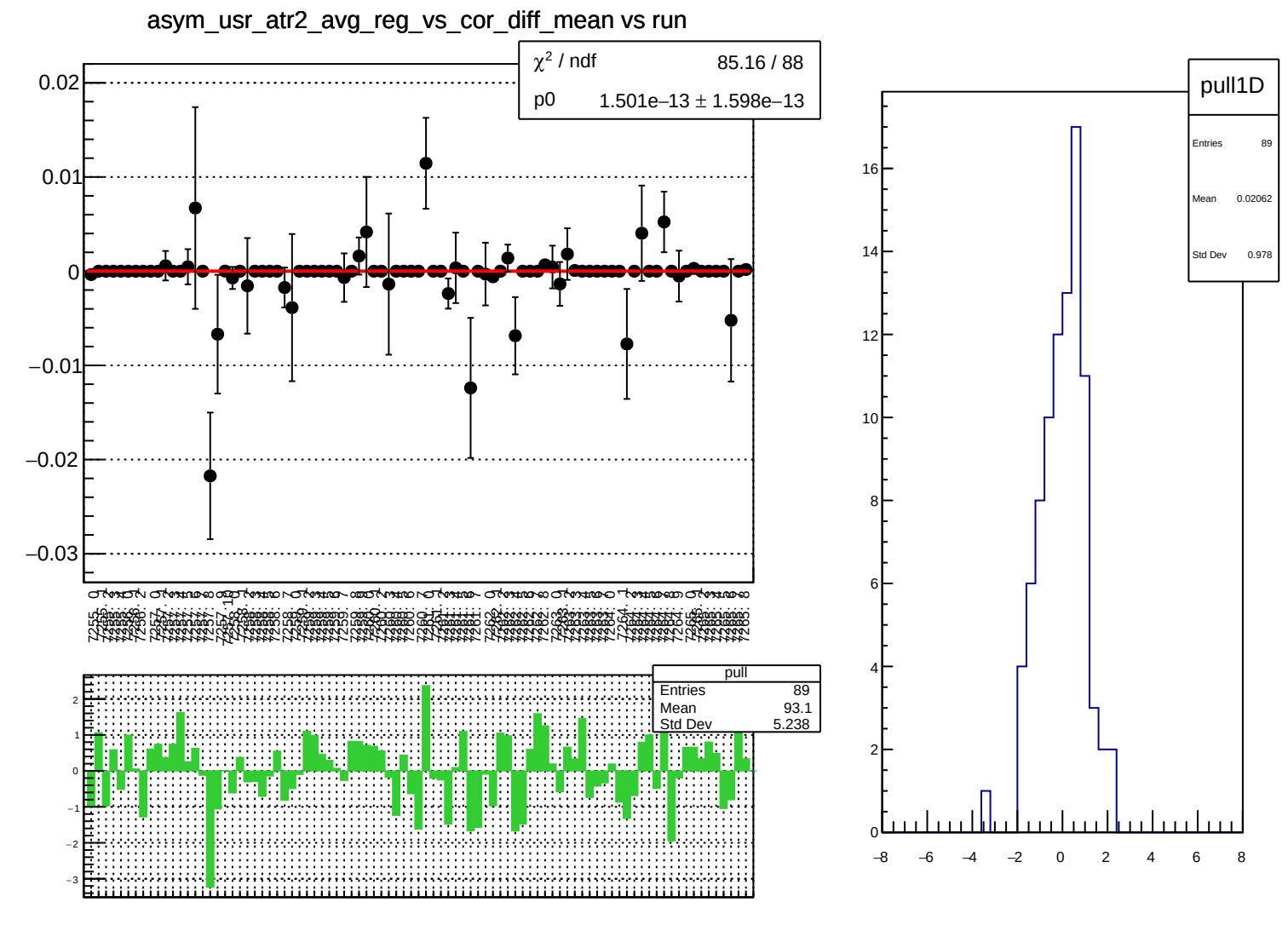

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.52 / 88
p0 4855 ± 6018
pull
Entries 89
Mean 1298
Std Dev 0
pull1D
Entries 89
Mean −0.003664
Std Dev 0.9973

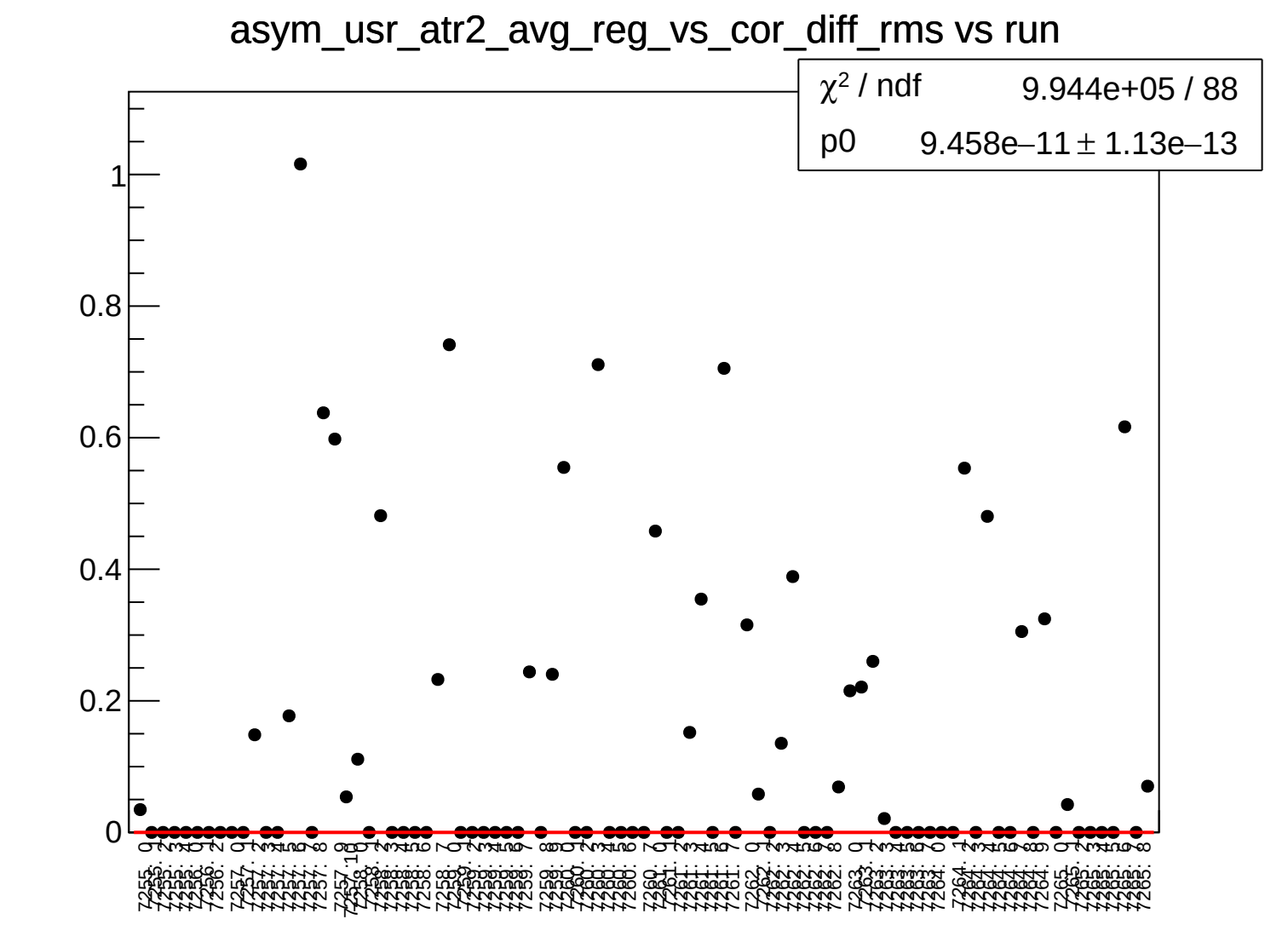

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 8818 / 88
p0 5526 ± 4.256
6500
6000
5500
5000
4500

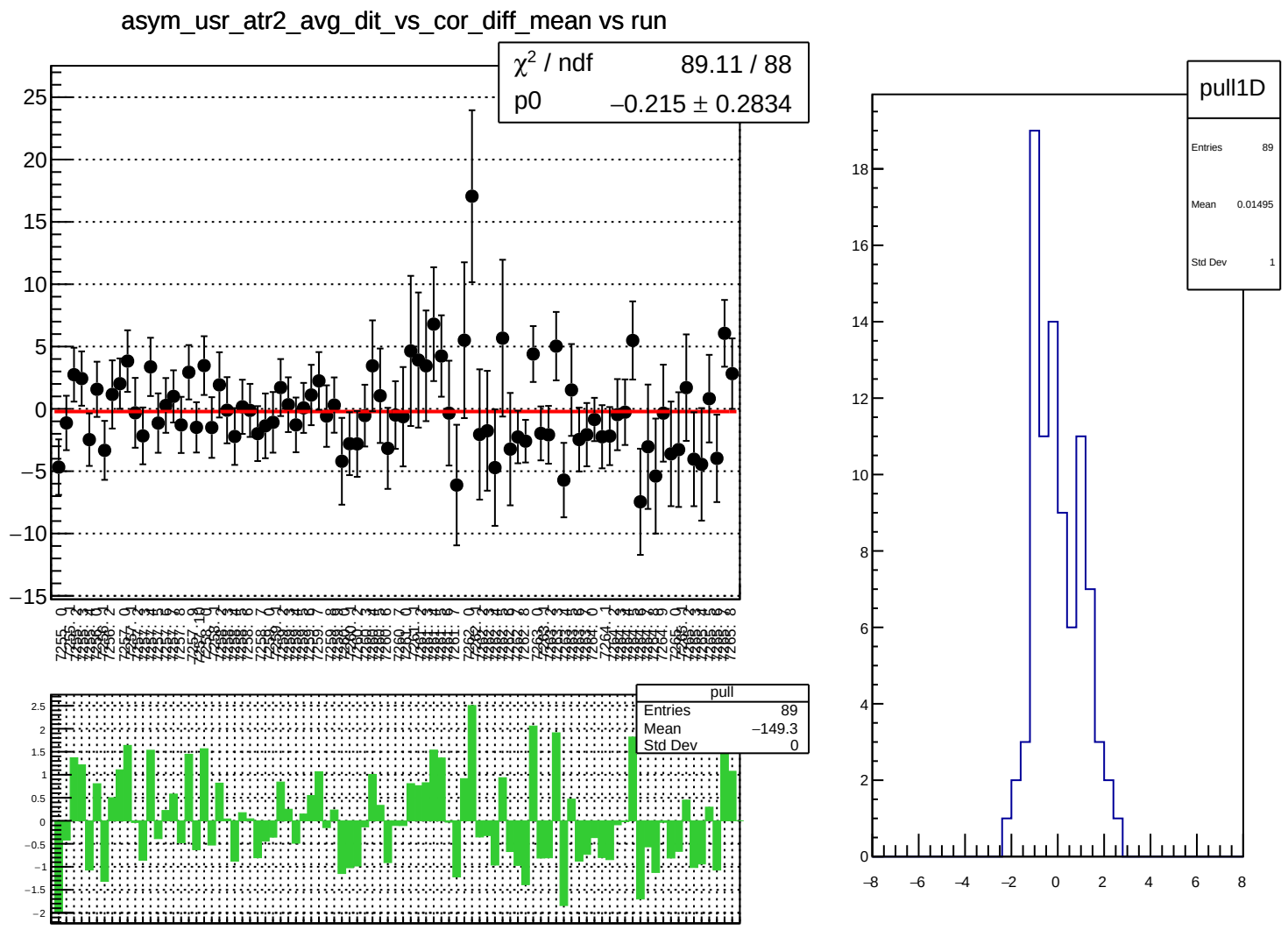

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 89.55 / 88
p0 −8450 ± 6212
300
200
100
0
−100
−200
pull
Entries 89
Mean 828.7
Std Dev 0
4
3
2
1
0
−1
−2

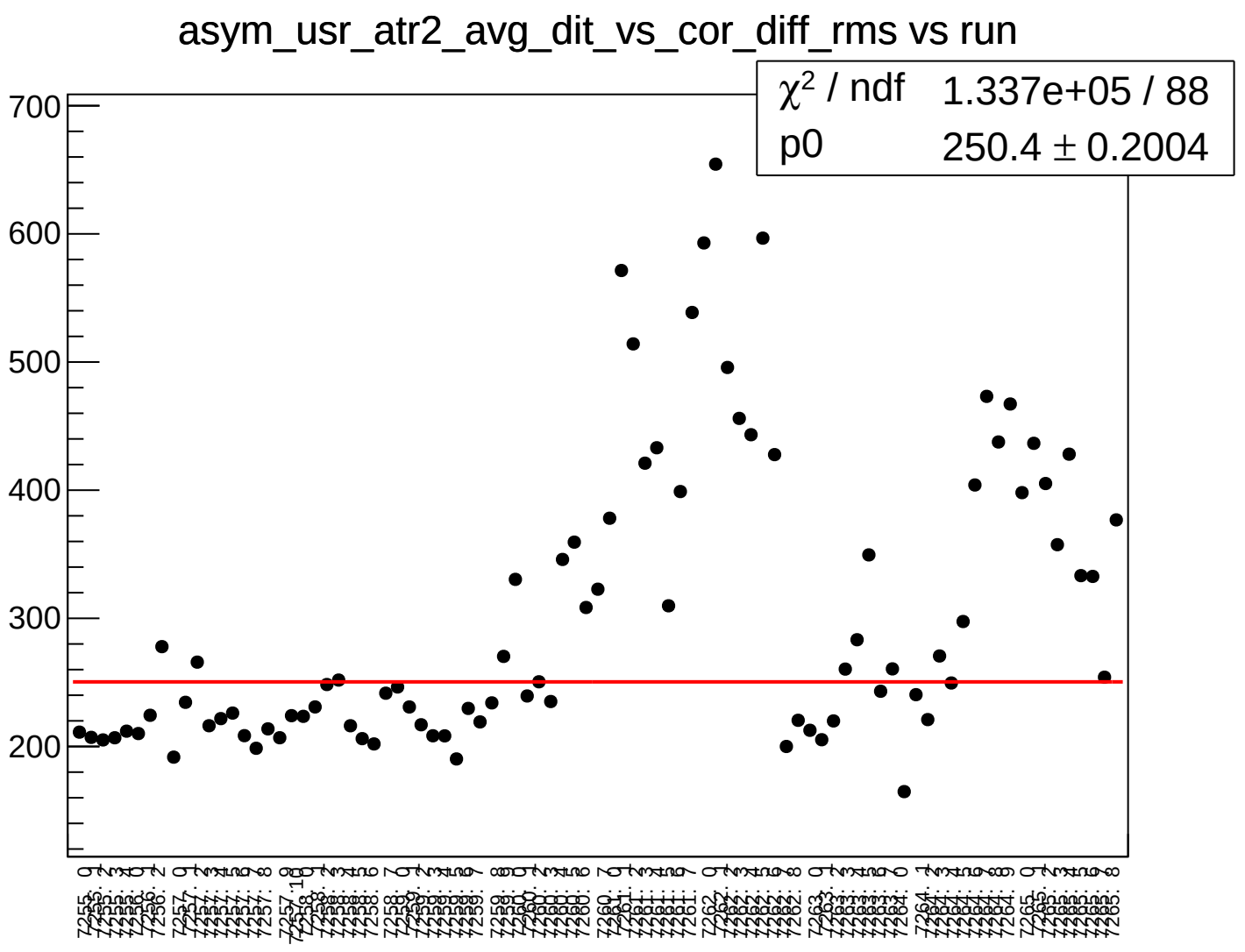

pull1D
Entries 89
Mean 0.006124
Std Dev 1.003
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

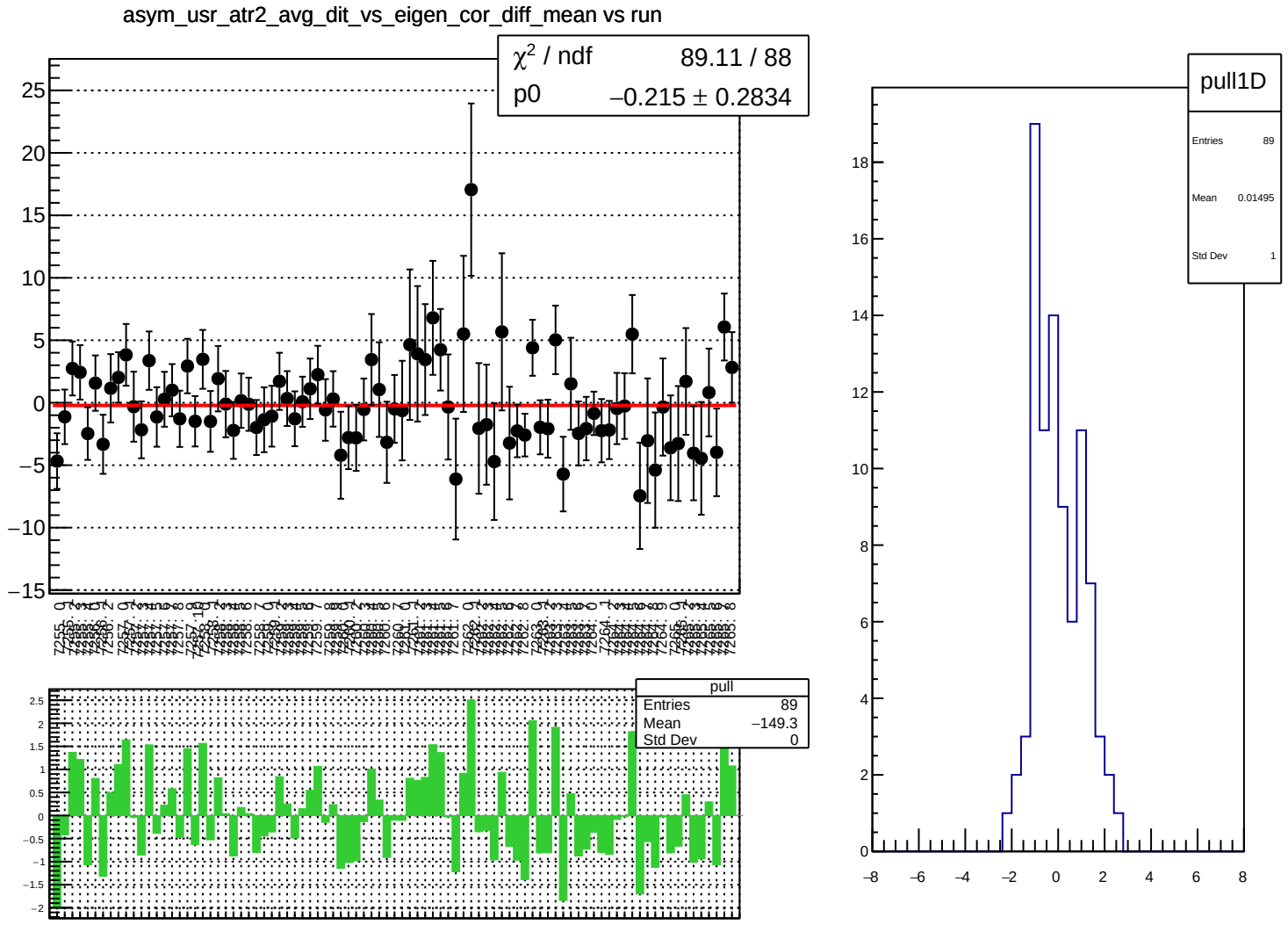

asym_usr_atr2_avg_rms vs run
χ² / ndf 7723 / 88
p0 5706 ± 4.393
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

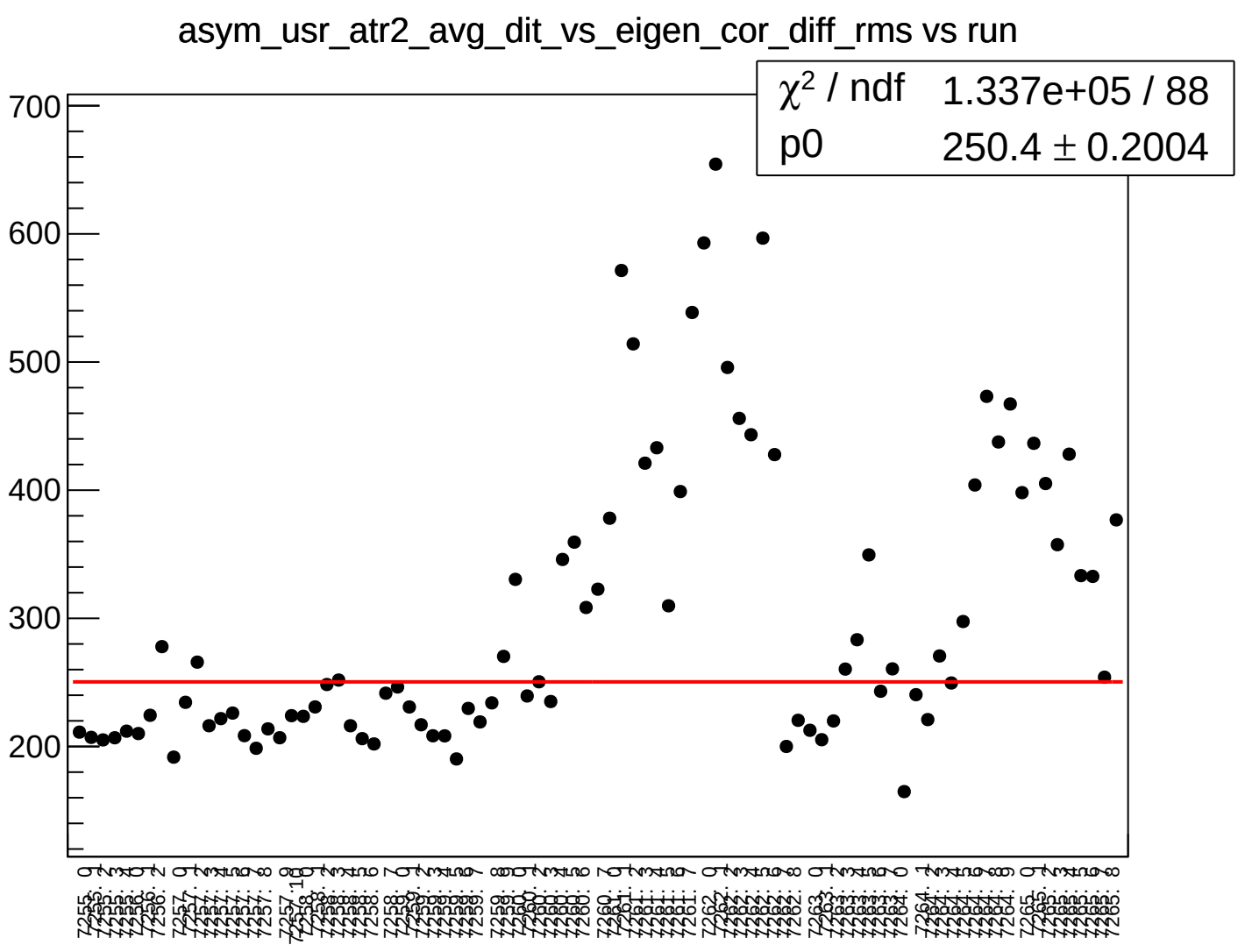

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.16 / 88
p0 1.501e−13 ± 1.598e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 93.1
Std Dev 5.238
pull1D
Entries 89
Mean 0.02062
Std Dev 0.978

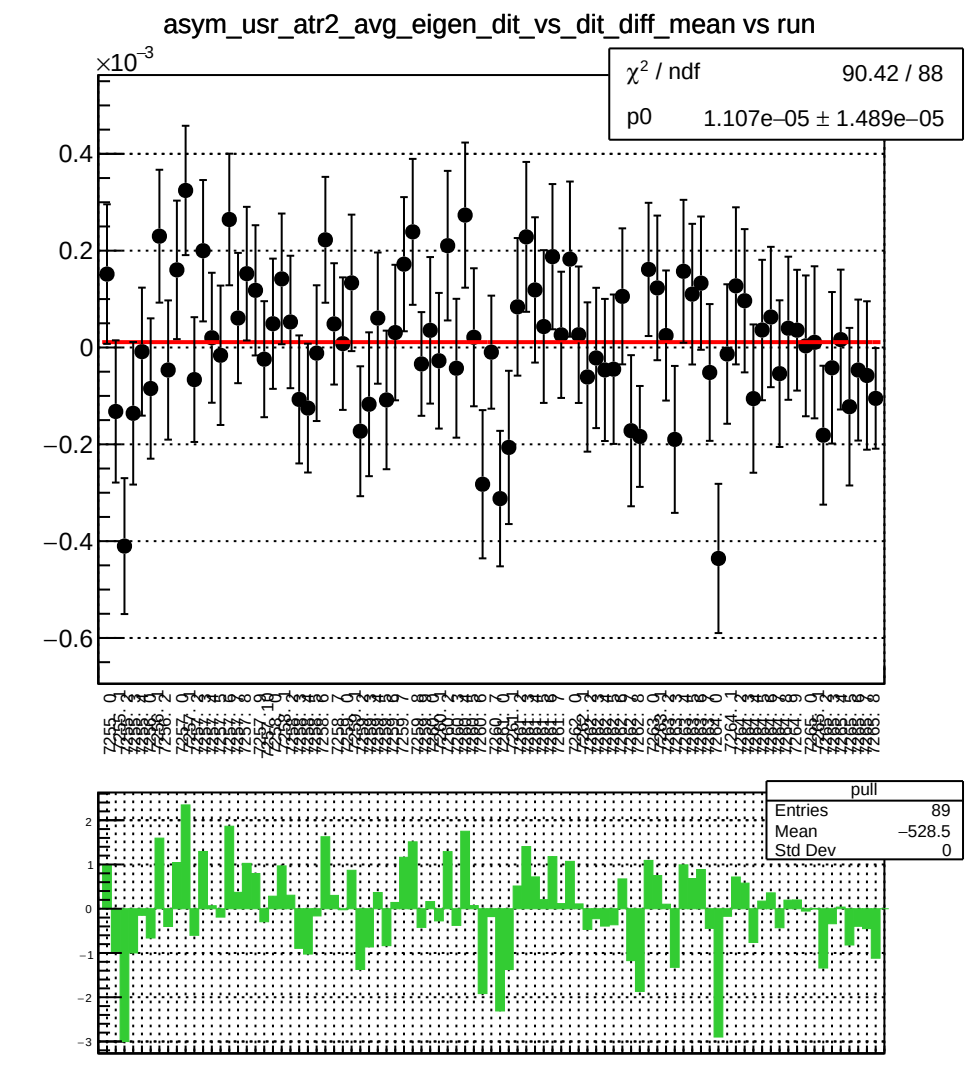

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.944e+05 / 88
p0 9.458e−11 ± 1.13e−13
1
0.8
0.6
0.4
0.2
0

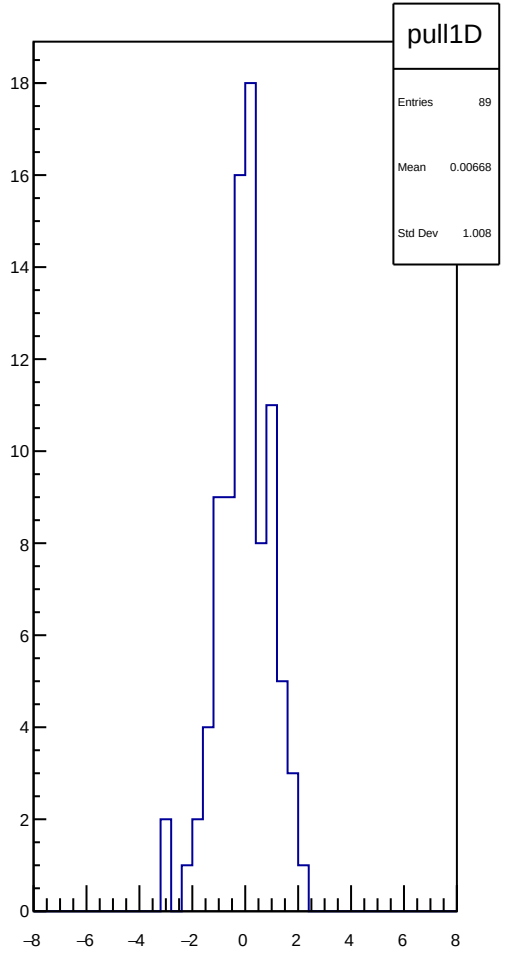

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.11 / 88
p0 −0.215 ± 0.2834
pull
Entries 89
Mean −149.3
Std Dev 0
pull1D
Entries 89
Mean 0.01495
Std Dev 1

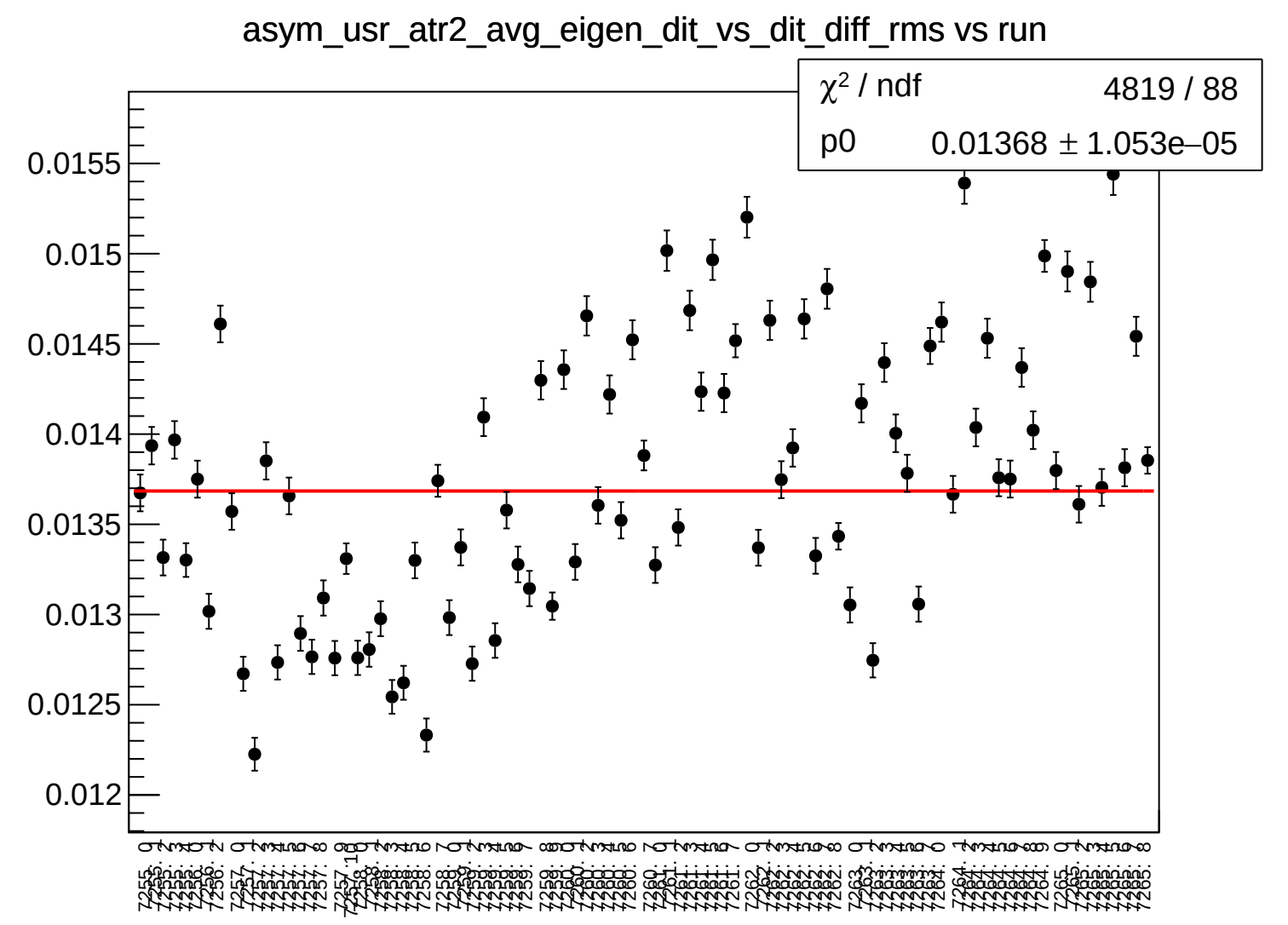

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.337e+05 / 88
p0 250.4 ± 0.2004
700
600
500
400
300
200

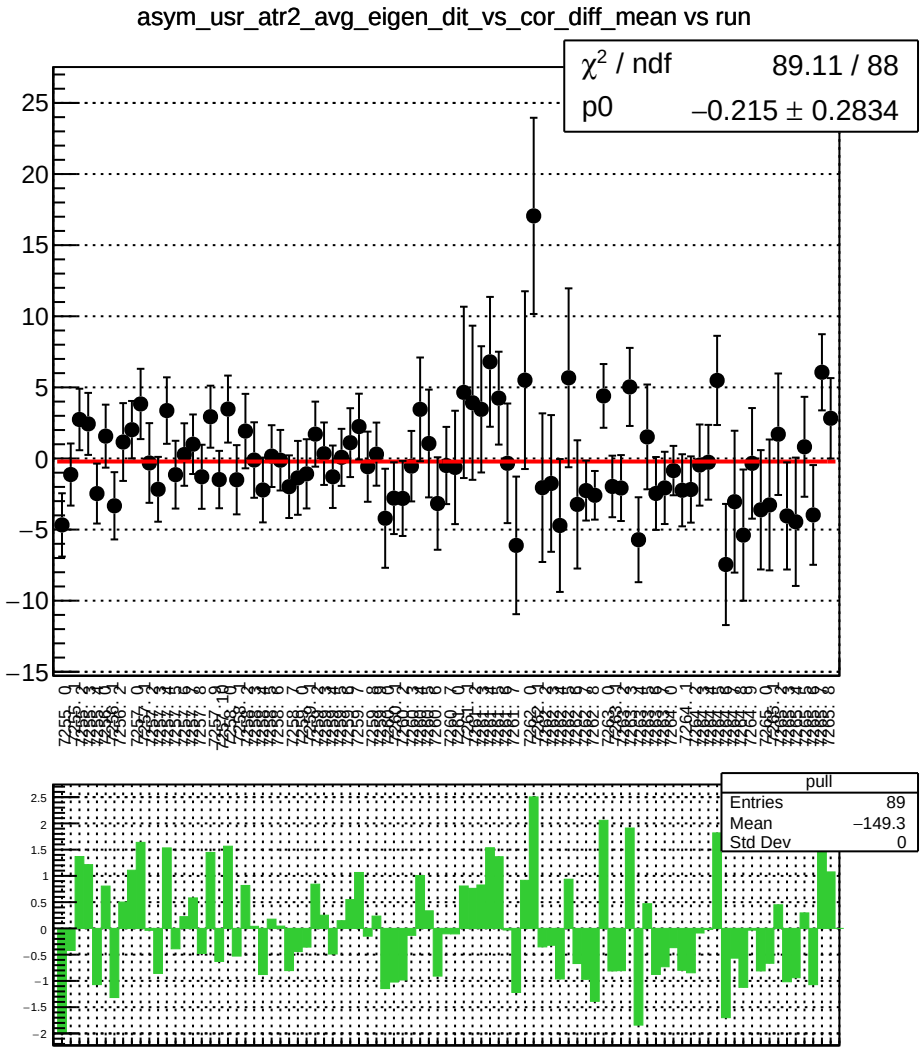

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.11 / 88
p0 −0.215 ± 0.2834
pull
Entries 89
Mean −149.3
Std Dev 0
pull1D
Entries 89
Mean 0.01495
Std Dev 1

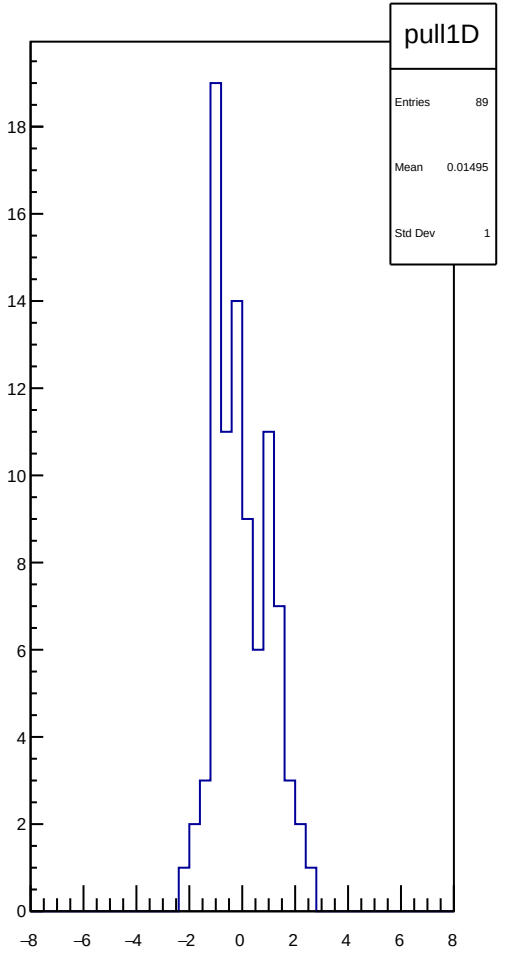

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.337e+05 / 88
p0 250.4 ± 0.2004
700
600
500
400
300
200

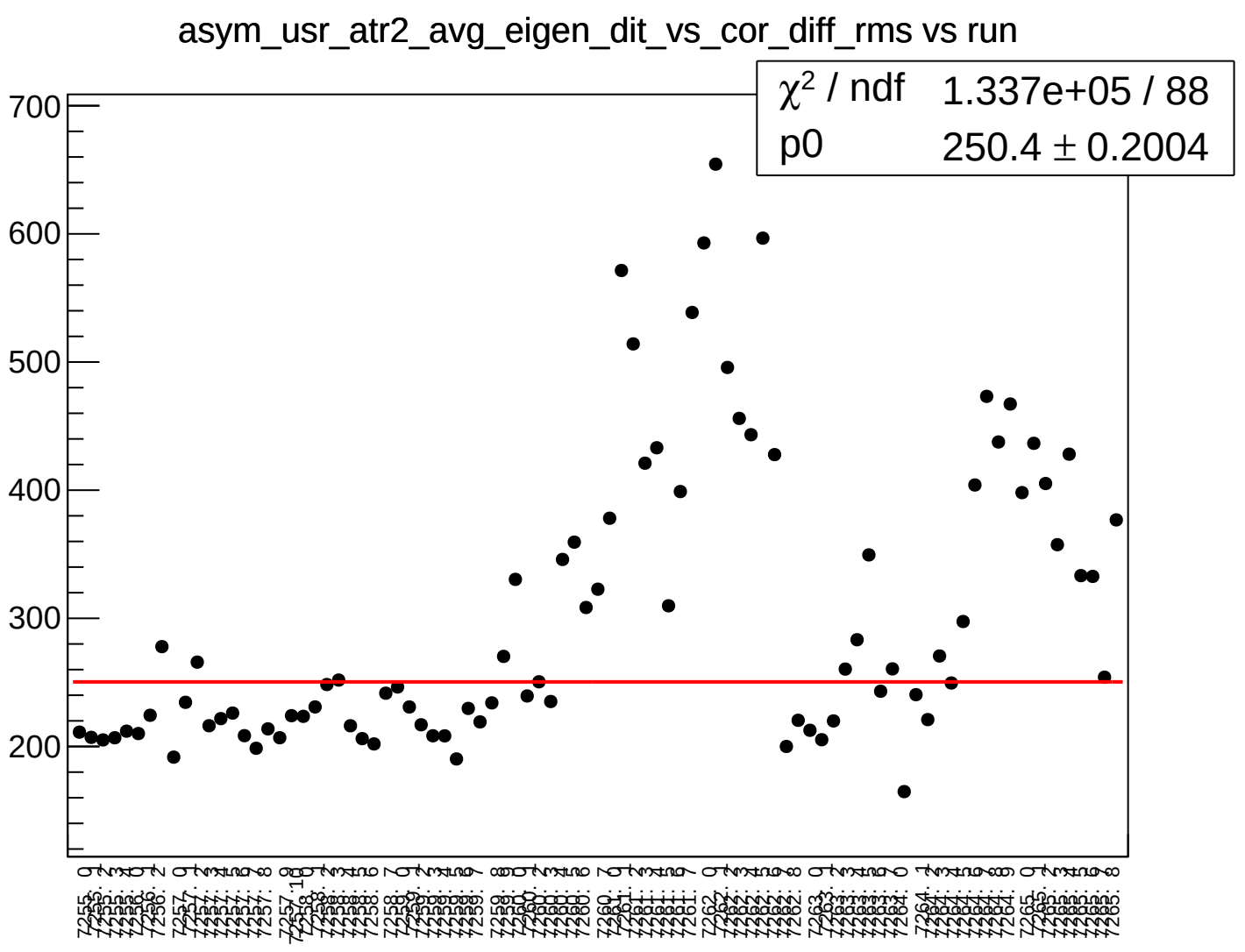

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.42 / 88
p0 1.107e−05 ± 1.489e−05
pull
Entries 89
Mean −528.5
Std Dev 0

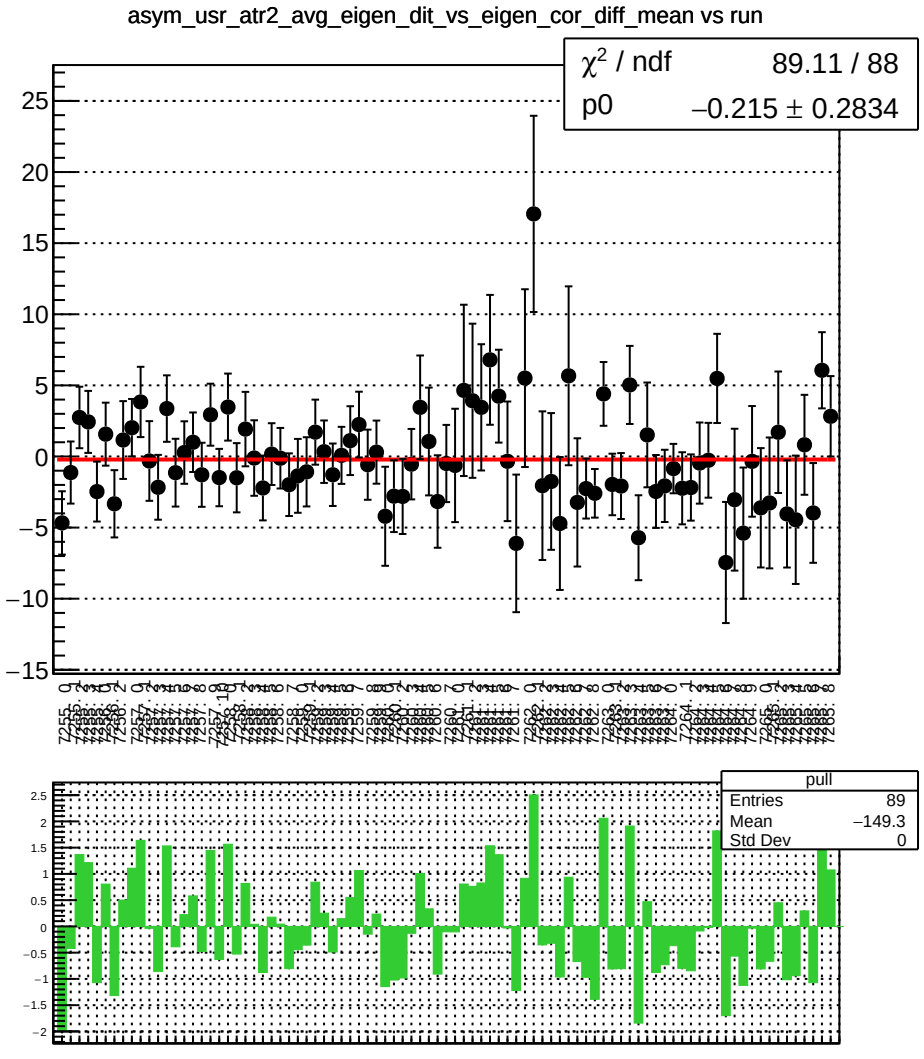

pull1D
Entries 89
Mean 0.00668
Std Dev 1.008

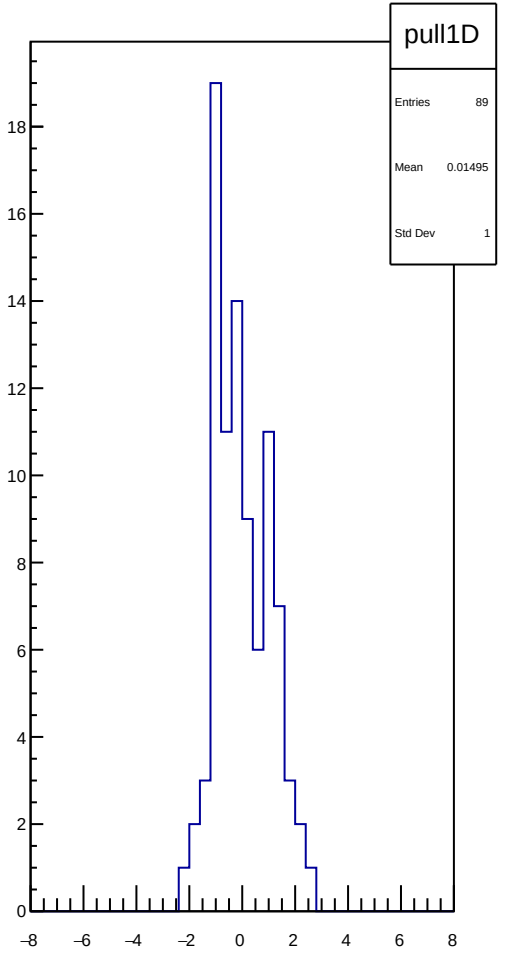

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4819 / 88
p0 0.01368 ± 1.053e−05
0.0155
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012

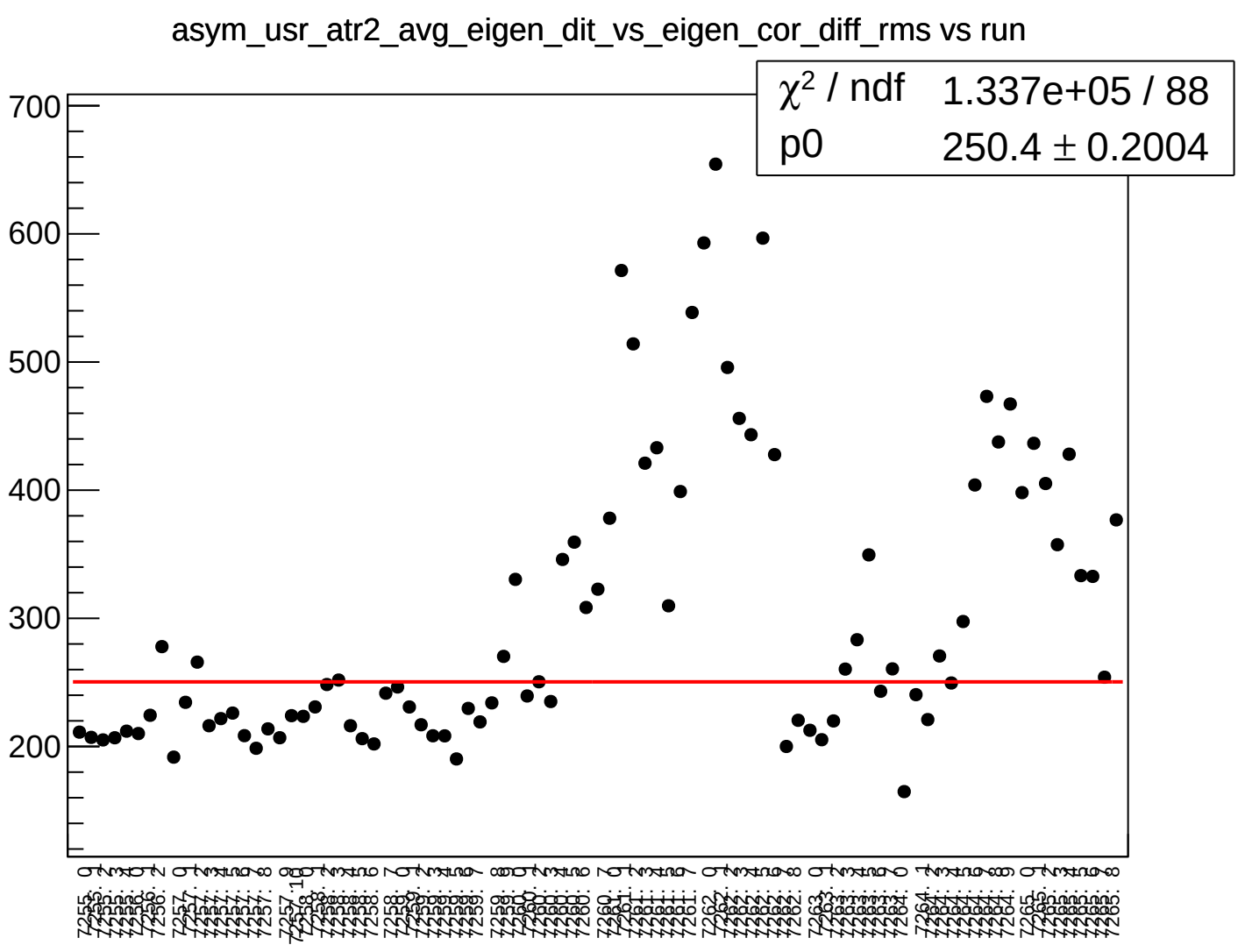

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.11 / 88
p0 −0.215 ± 0.2834
pull
Entries 89
Mean −149.3
Std Dev 0

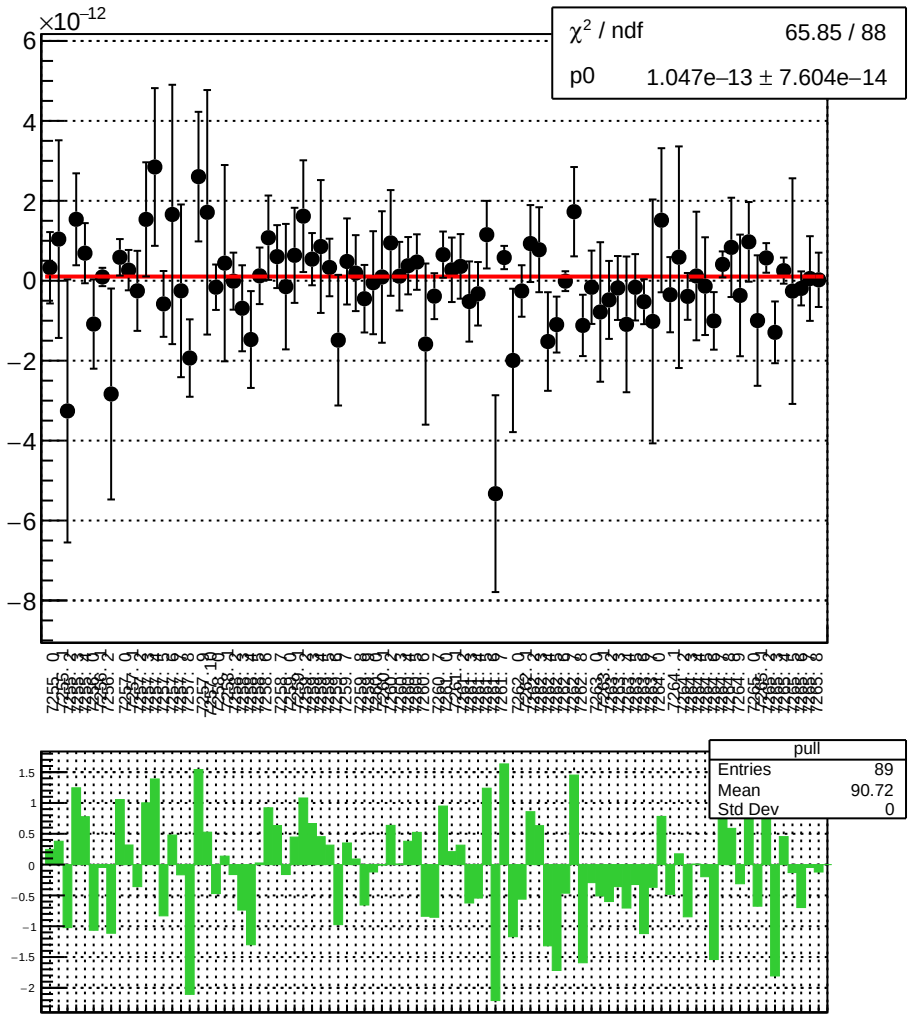

pull1D
Entries 89
Mean 0.01495
Std Dev 1

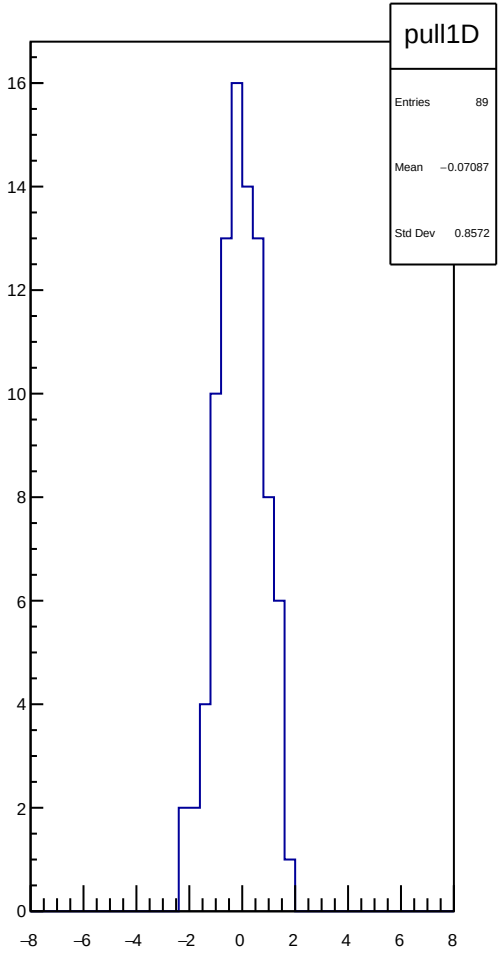

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.337e+05 / 88
p0 250.4 ± 0.2004
700
600
500
400
300
200

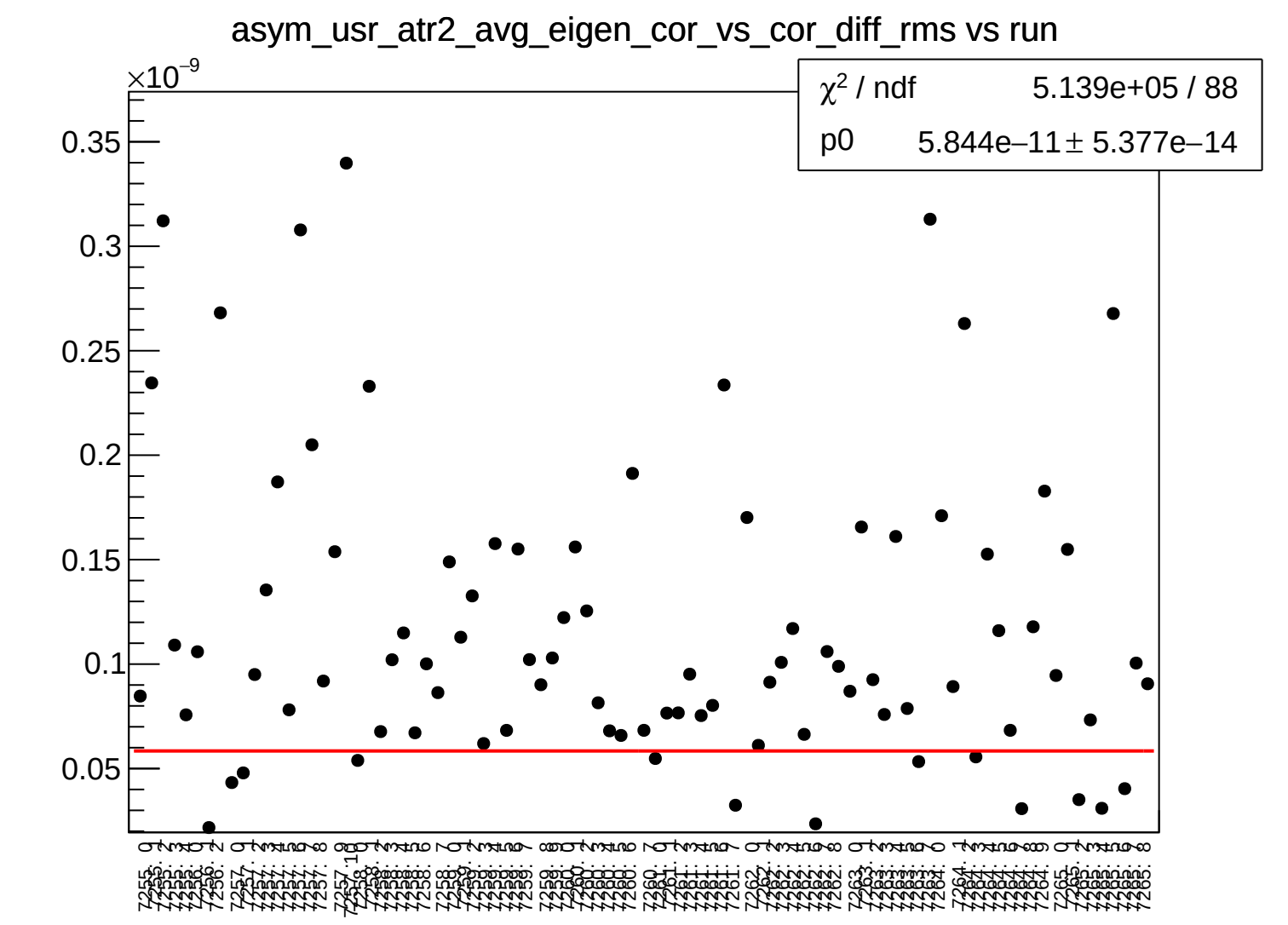

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.11 / 88
p0 −0.215 ± 0.2834
pull
Entries 89
Mean −149.3
Std Dev 0

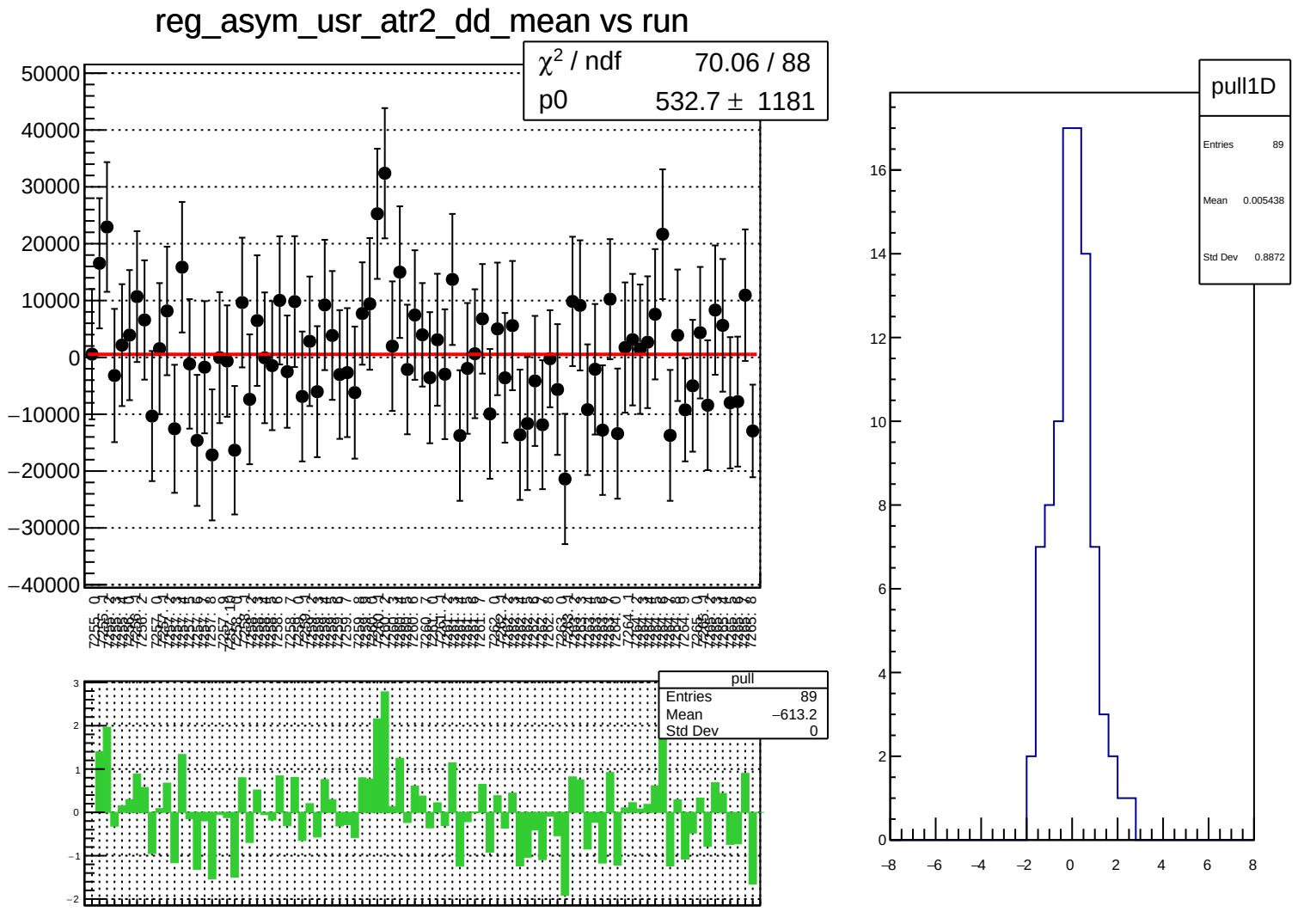

pull1D
Entries 89
Mean 0.01495
Std Dev 1

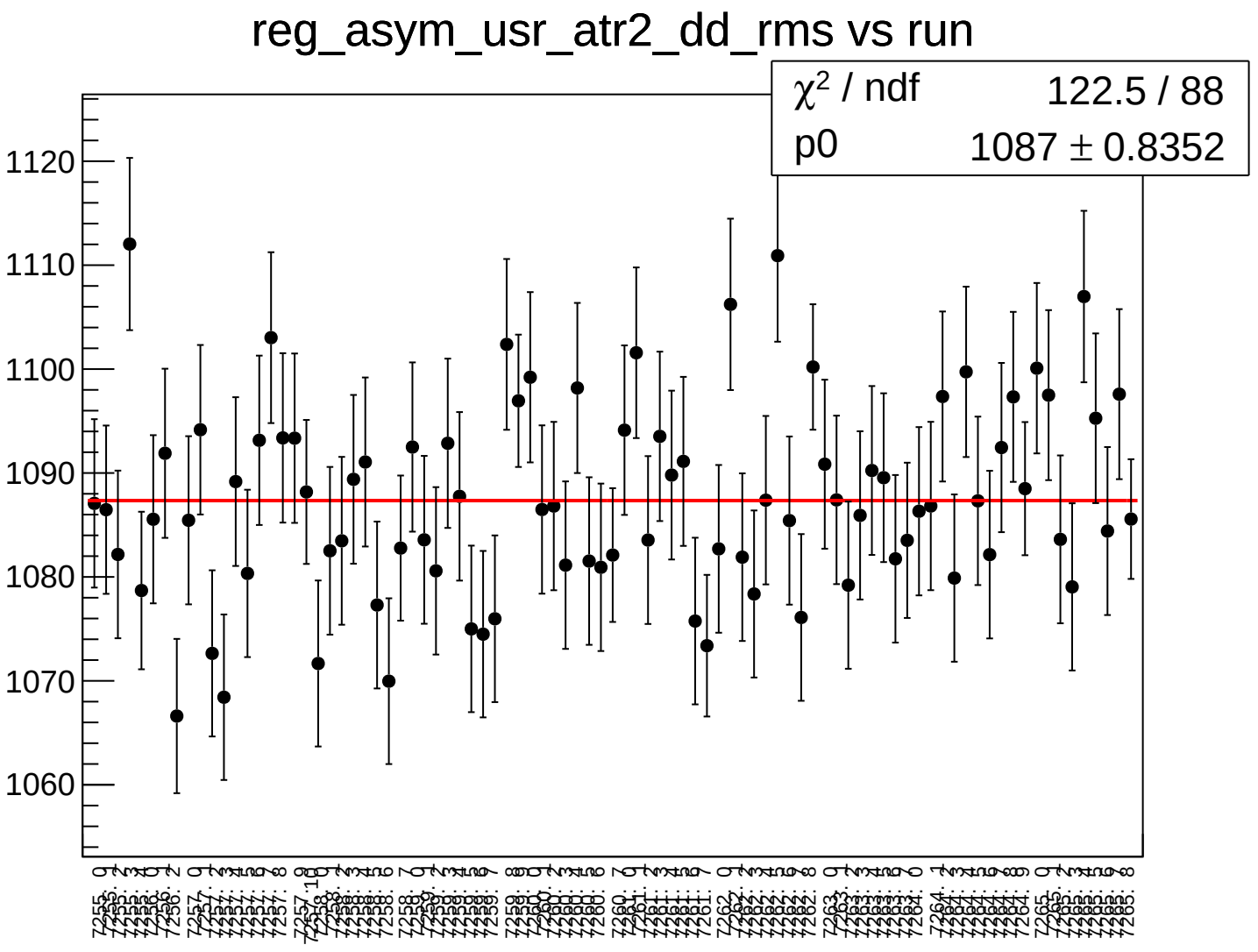

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.337e+05 / 88
p0 250.4 ± 0.2004
700
600
500
400
300
200

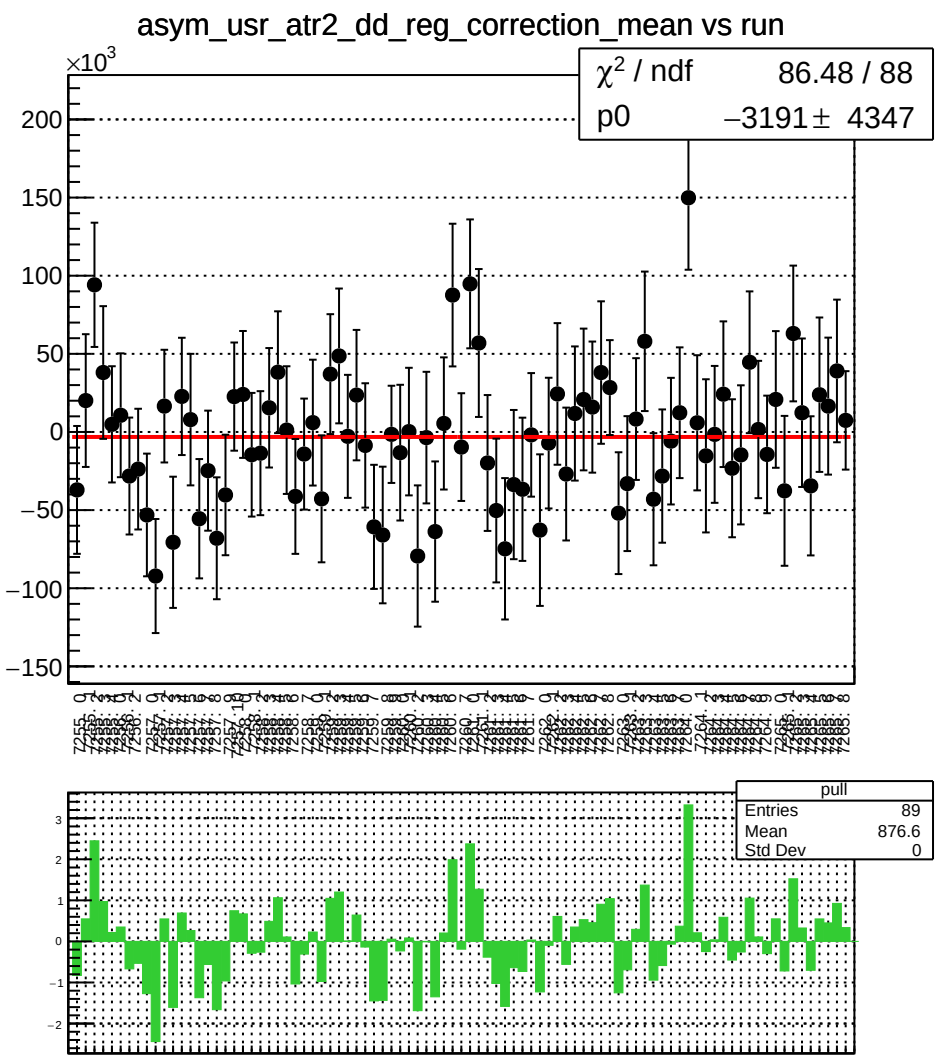

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.85 / 88
p0 1.047e−13 ± 7.604e−14
pull
Entries 89
Mean 90.72
Std Dev 0

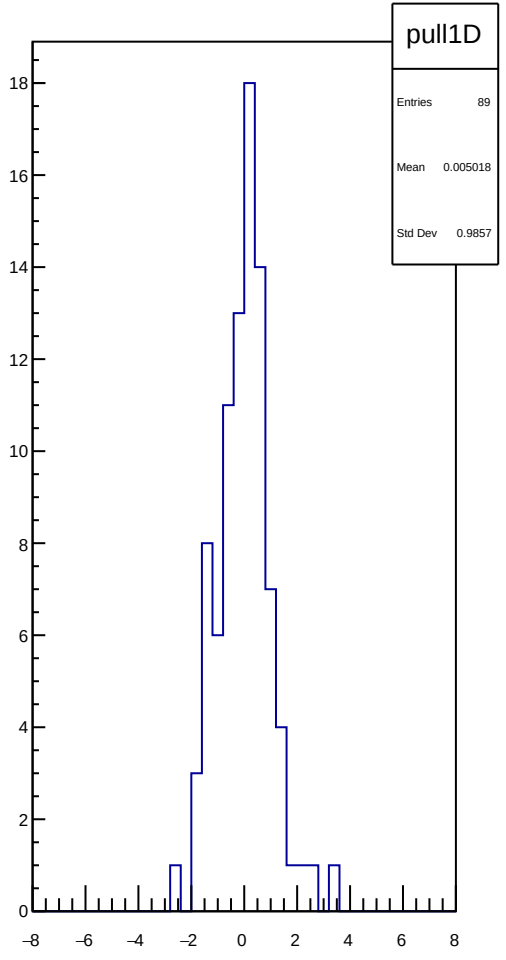

pull1D
Entries 89
Mean −0.07087
Std Dev 0.8572

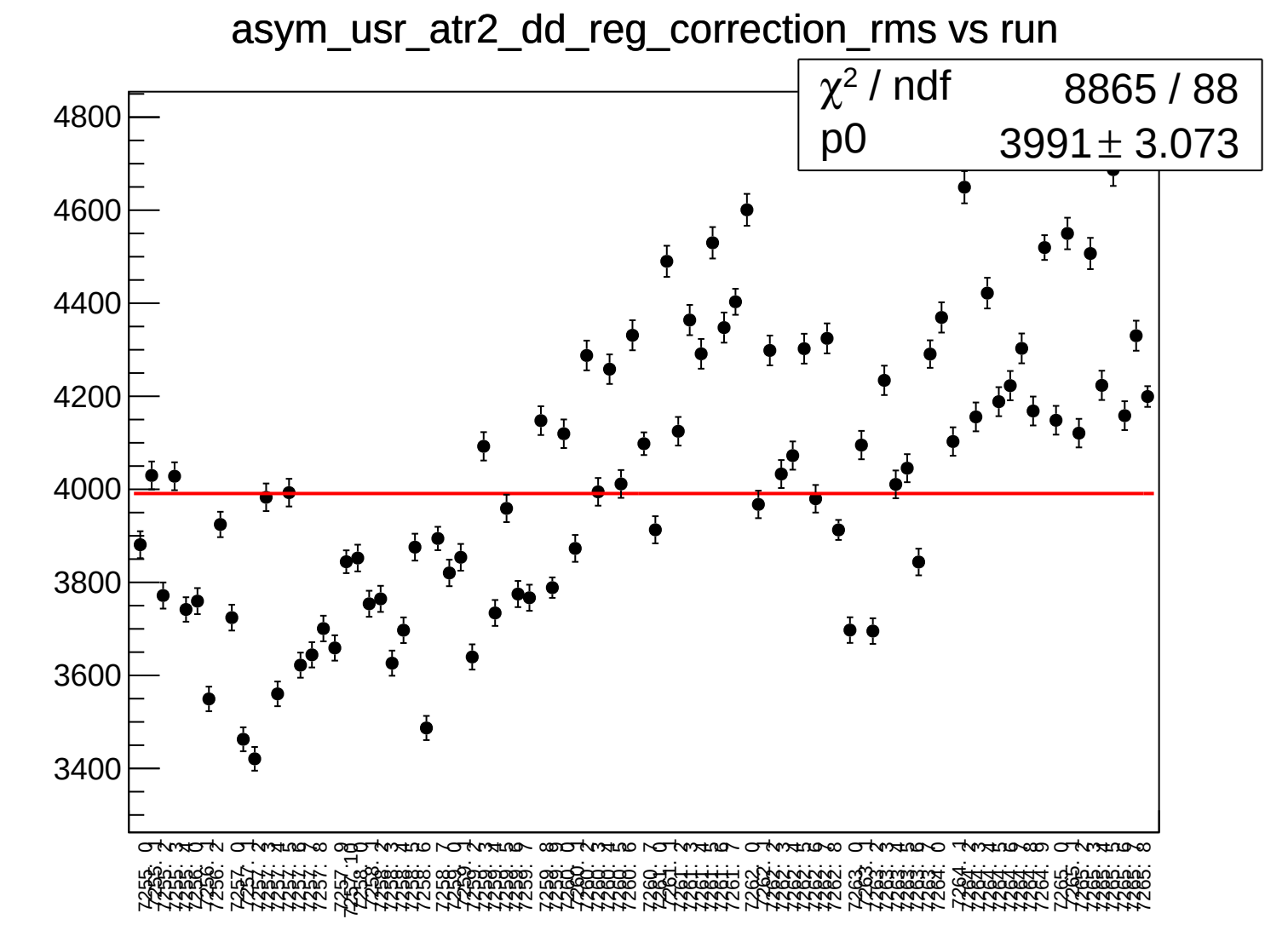

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.139e+05 / 88
p0 5.844e−11 ± 5.377e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

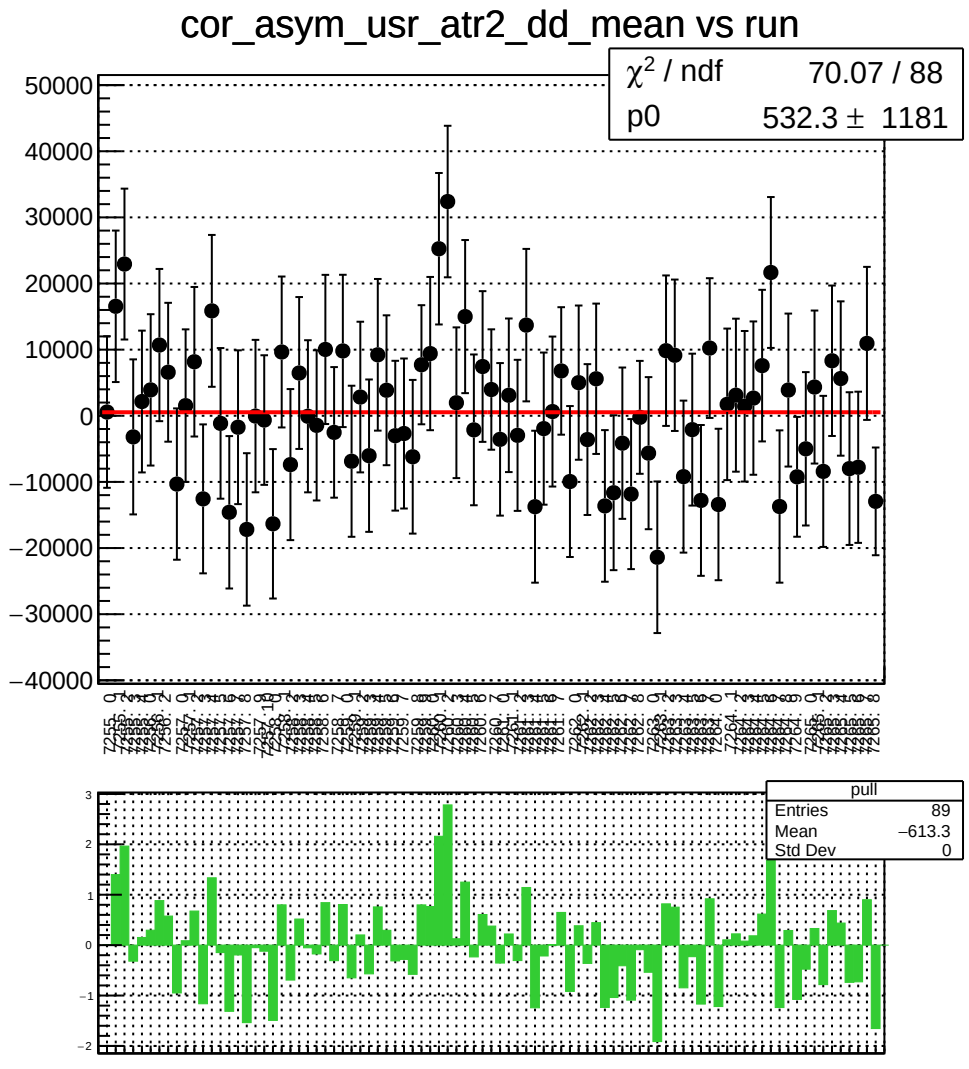

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 70.06 / 88
p0 532.7 ± 1181
pull
Entries 89
Mean −613.2
Std Dev 0
pull1D
Entries 89
Mean 0.005438
Std Dev 0.8872

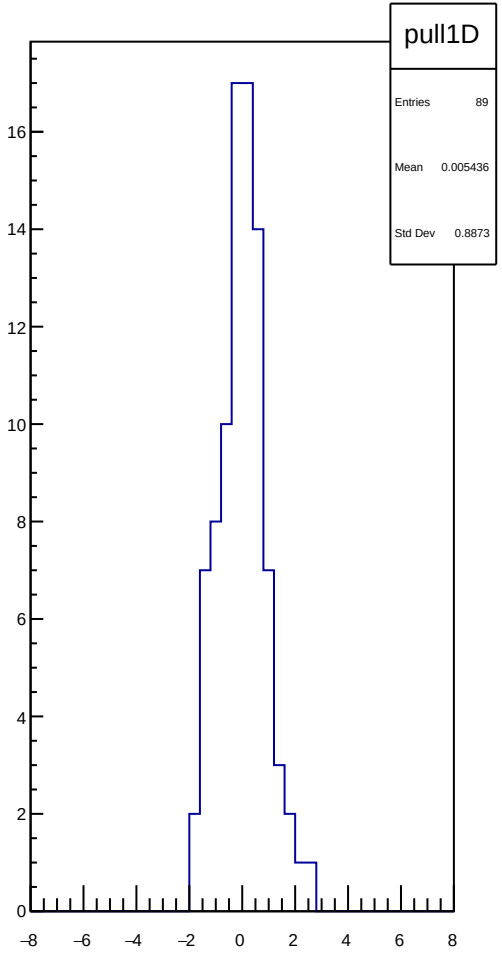

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 122.5 / 88
p0 1087 ± 0.8352
1120
1110
1100
1090
1080
1070
1060

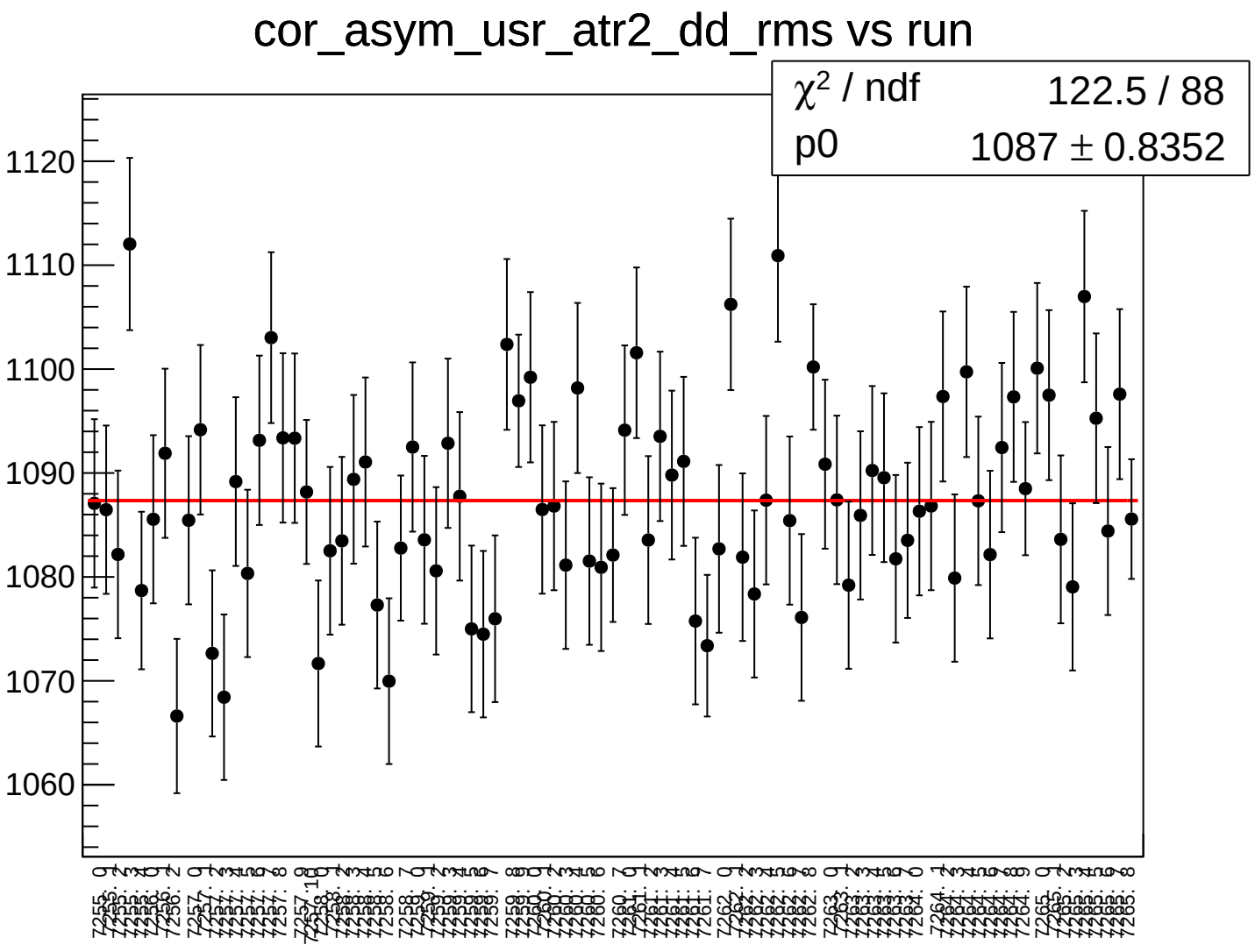

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.48 / 88
p0 −3191 ± 4347
pull
Entries 89
Mean 876.6
Std Dev 0

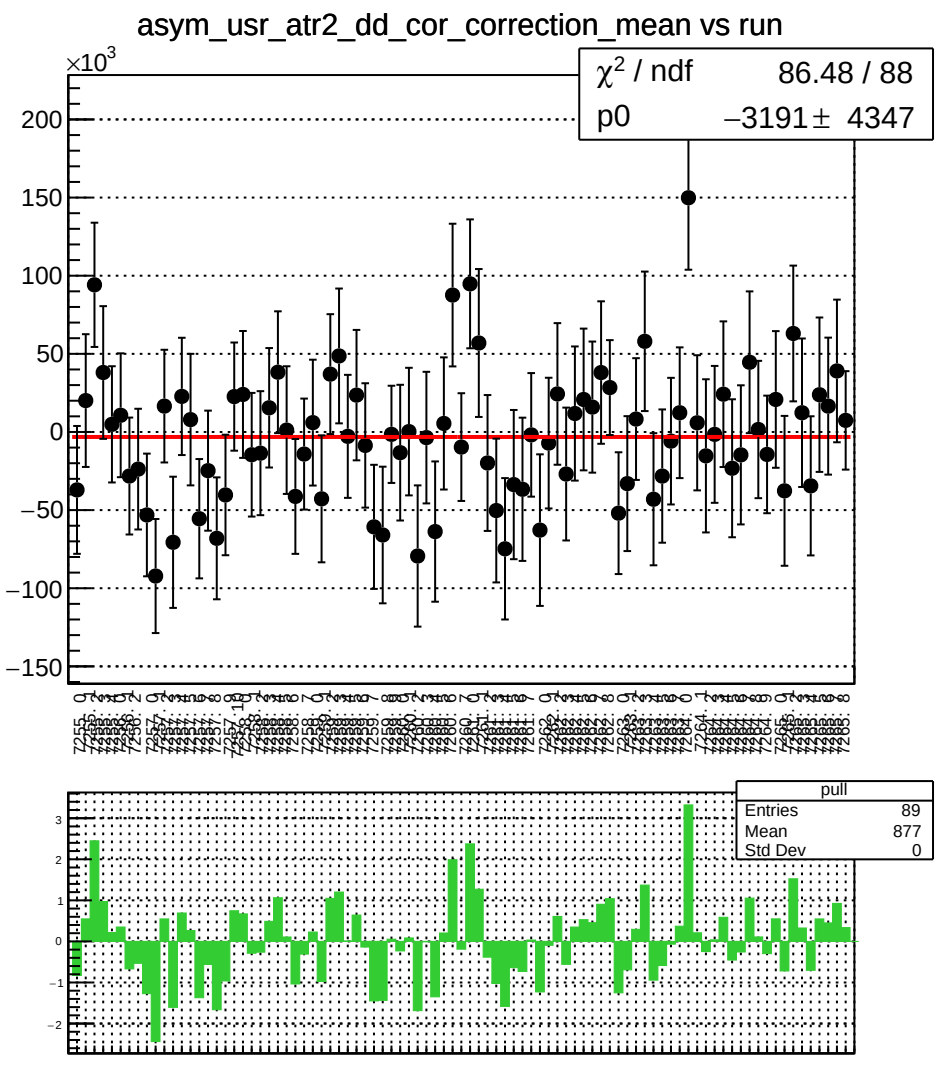

pull1D
Entries 89
Mean 0.005018
Std Dev 0.9857

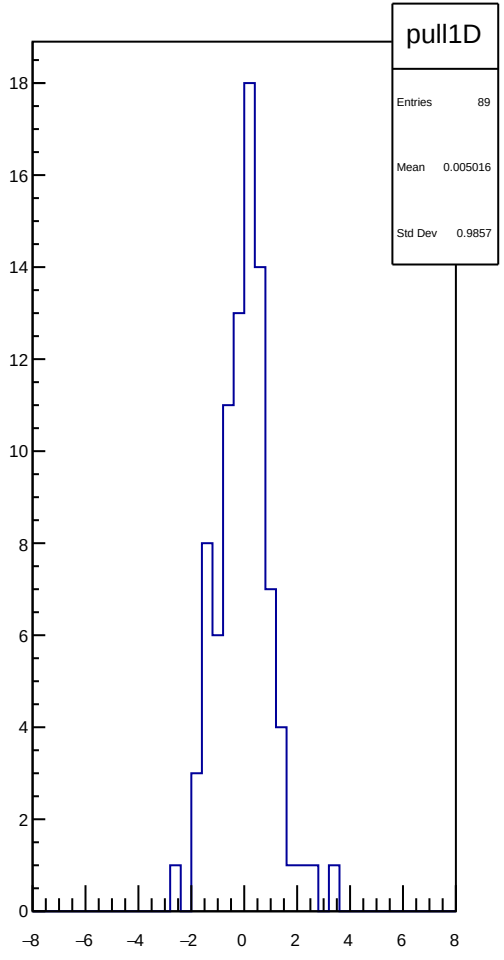

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 8865 / 88
p0 3991 ± 3.073
4800
4600
4400
4200
4000
3800
3600
3400

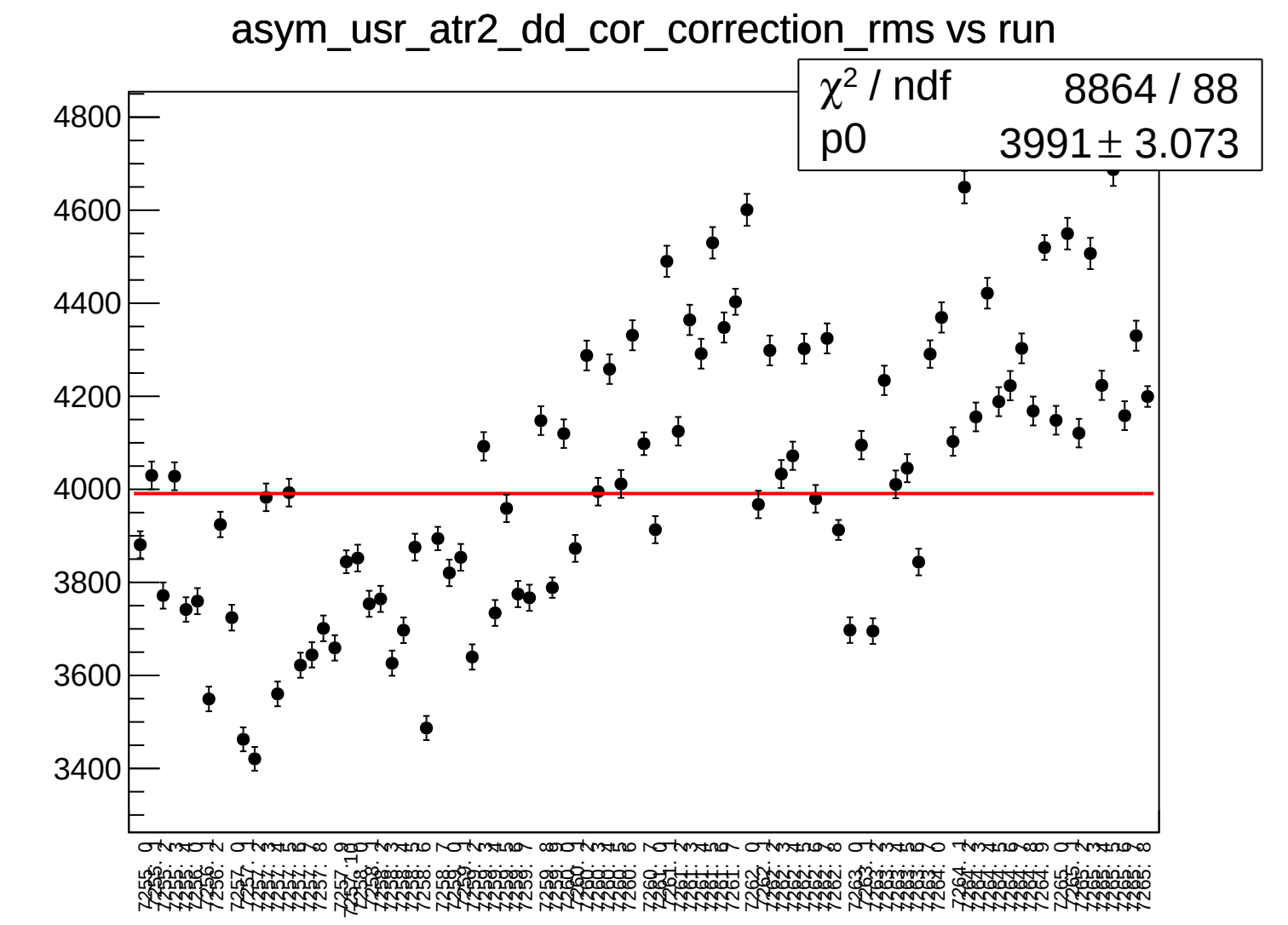

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 70.07 / 88
p0 532.3 ± 1181
pull
Entries 89
Mean −613.3
Std Dev 0

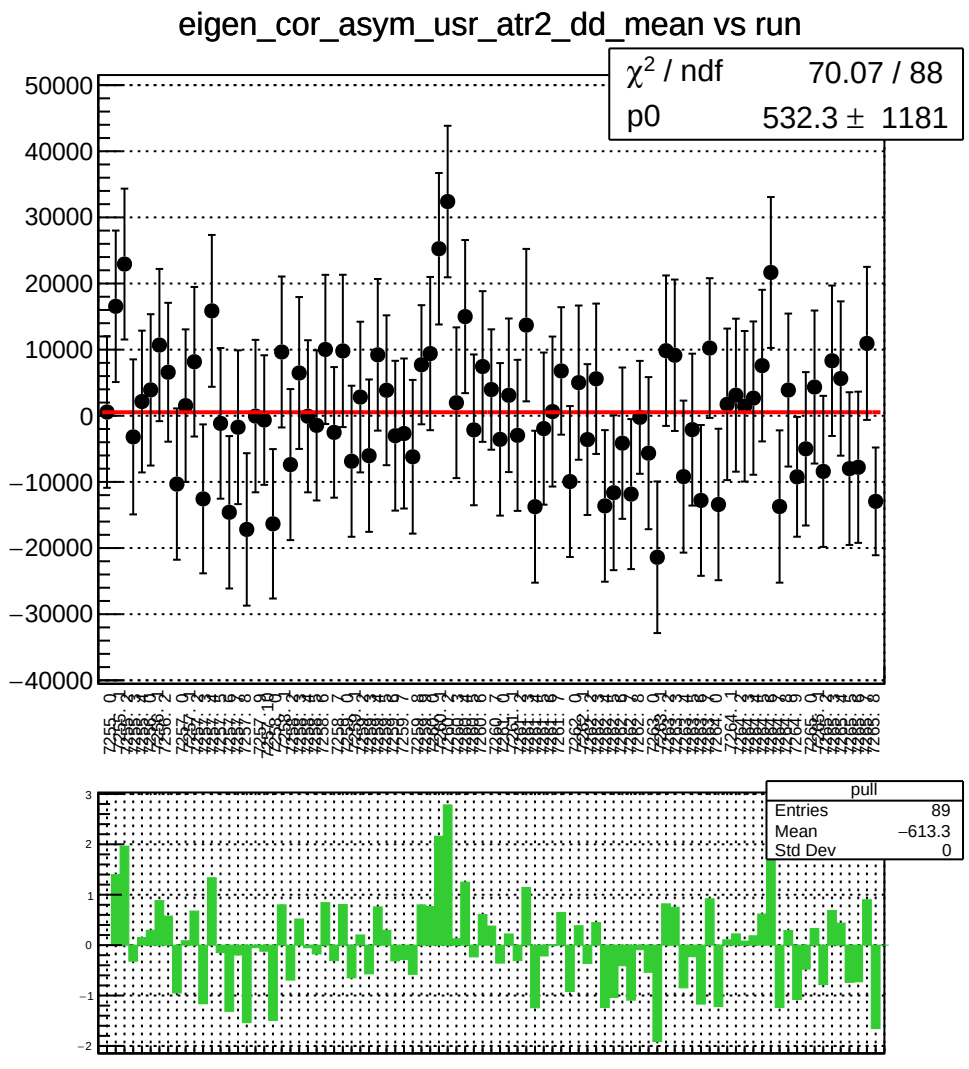

pull1D
Entries 89
Mean 0.005436
Std Dev 0.8873

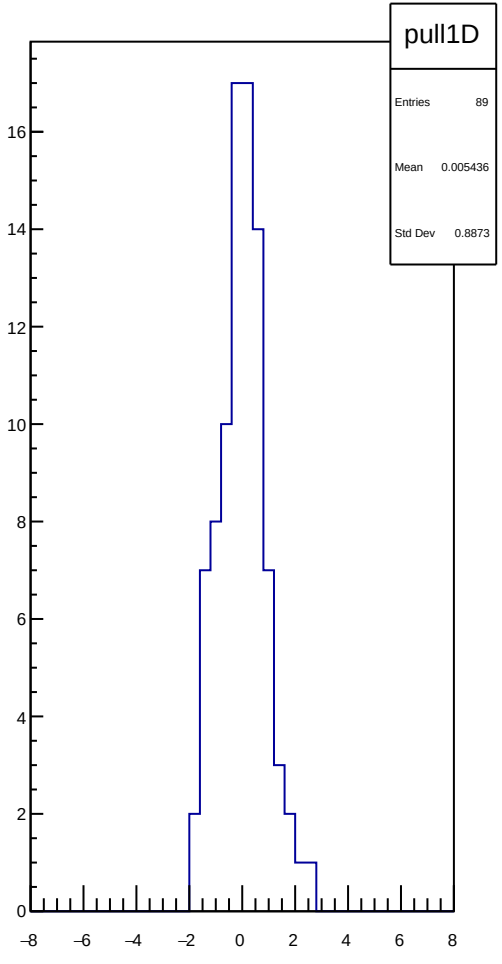

cor_asym_usr_atr2_dd_rms vs run
χ^2 / ndf 122.5 / 88
p0 1087 ± 0.8352
1120
1110
1100
1090
1080
1070
1060

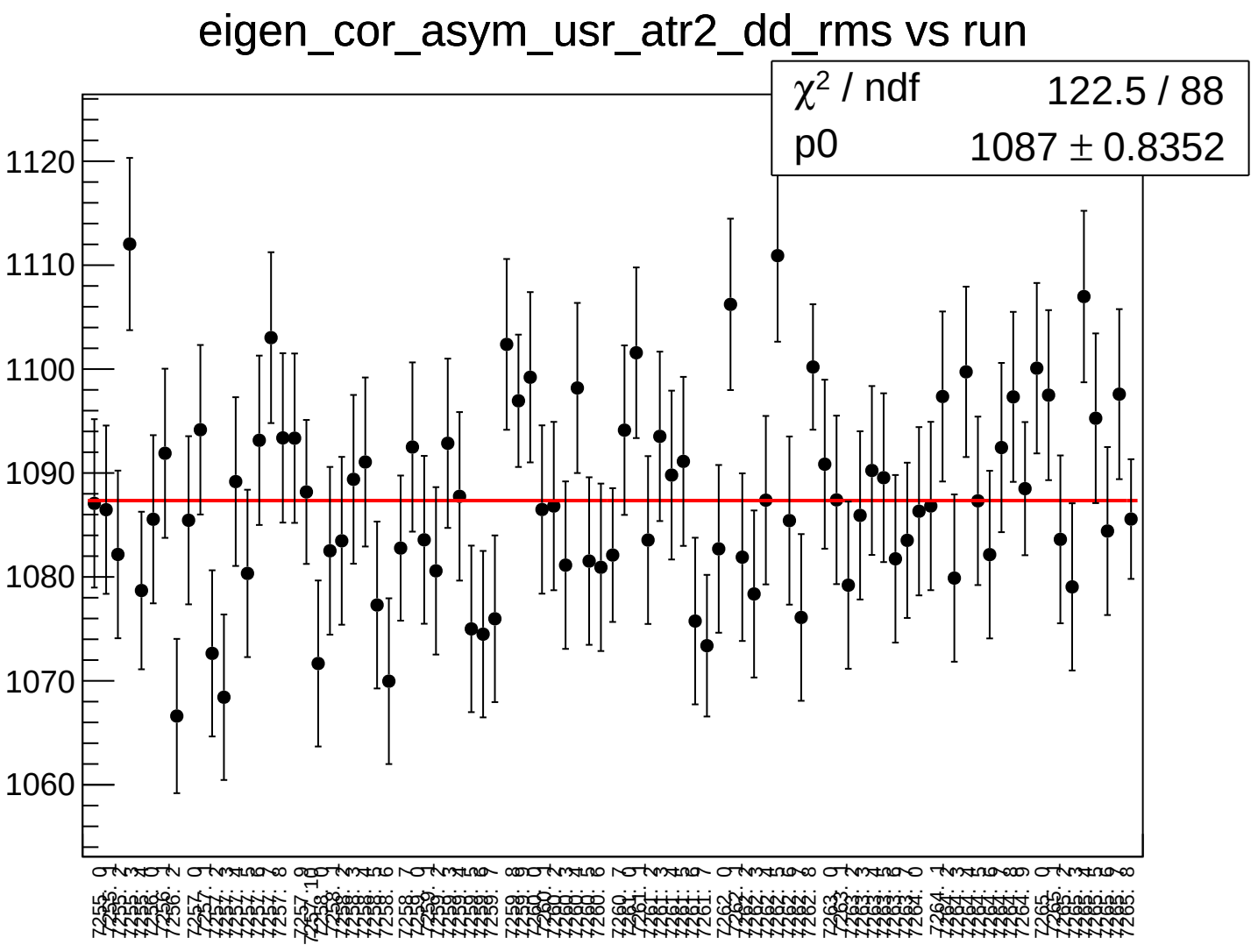

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.48 / 88
p0 −3191 ± 4347
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 877
Std Dev 0
3
2
1
0
−1
−2

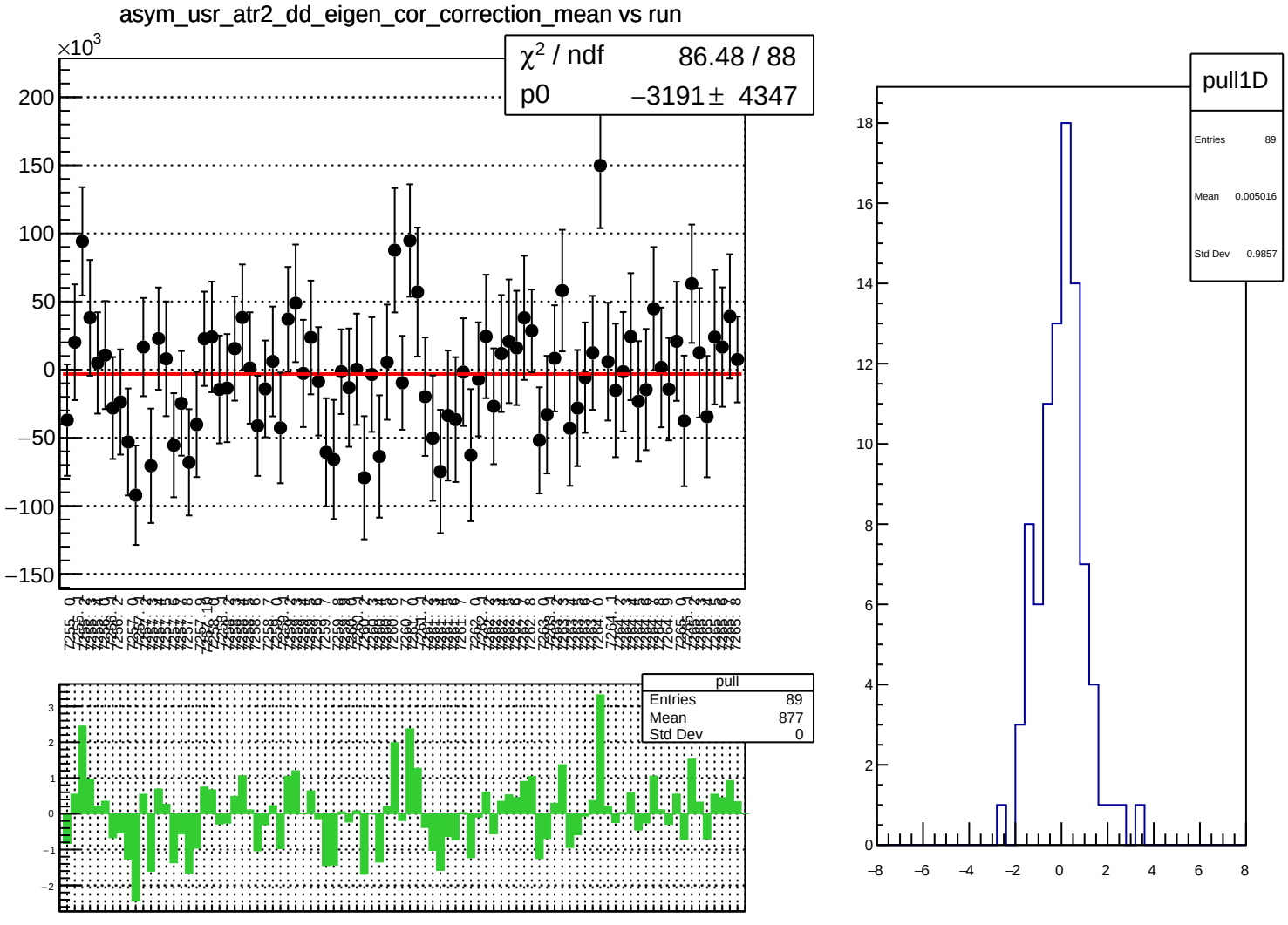

pull1D
Entries 89
Mean 0.005016
Std Dev 0.9857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

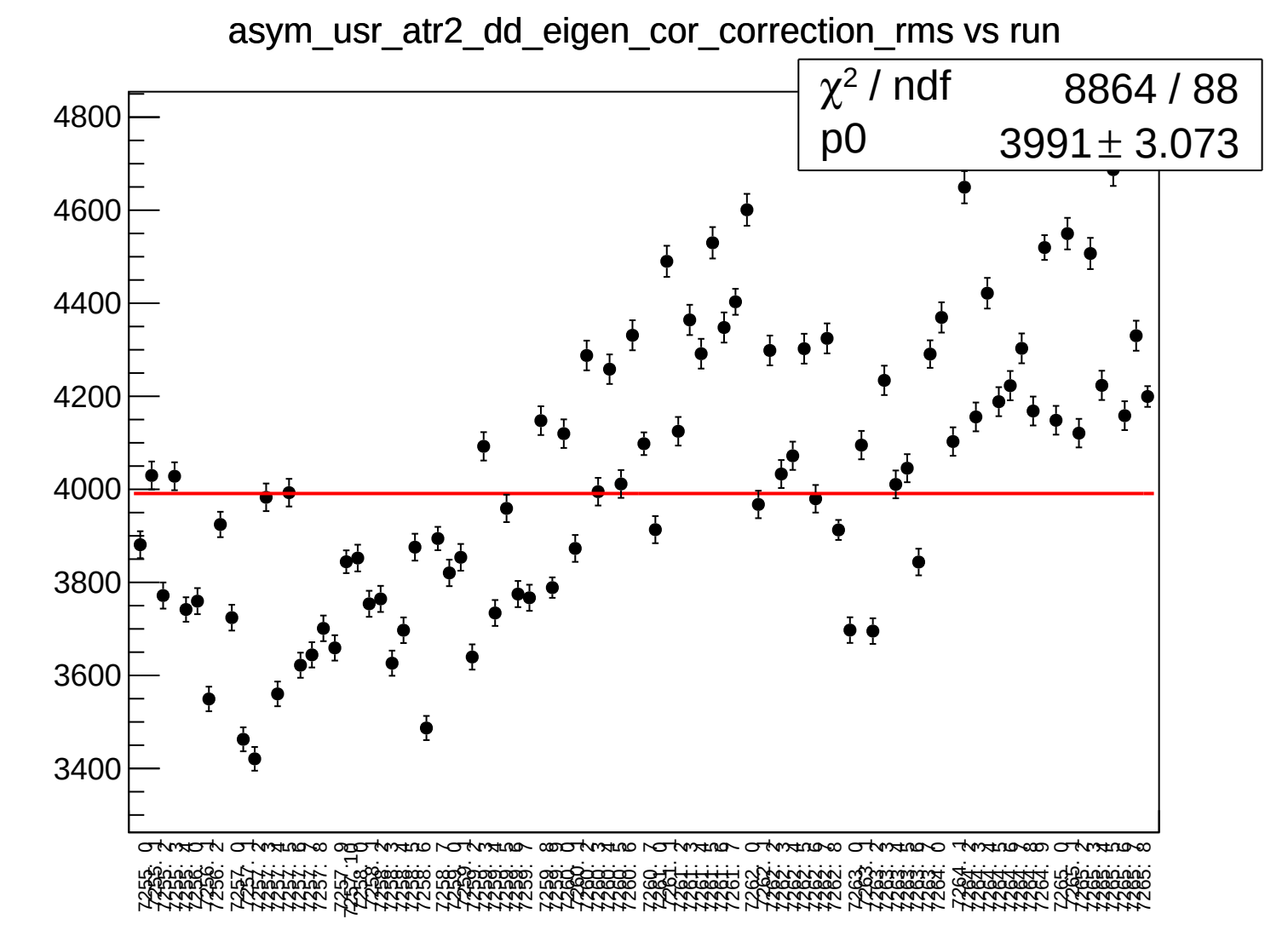

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 8864 / 88
p0 3991 ± 3.073
4800
4600
4400
4200
4000
3800
3600
3400

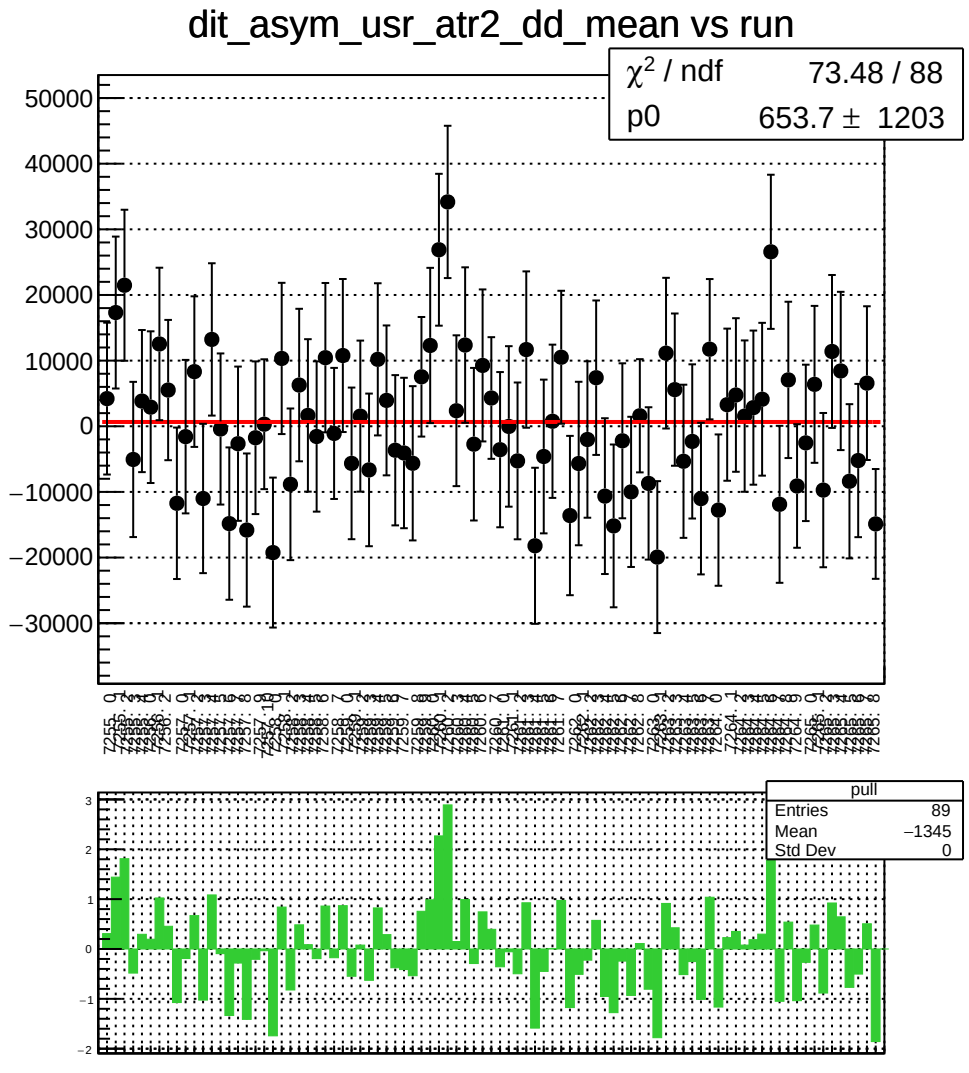

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 70.07 / 88
p0 532.3 ± 1181
pull
Entries 89
Mean −613.3
Std Dev 0

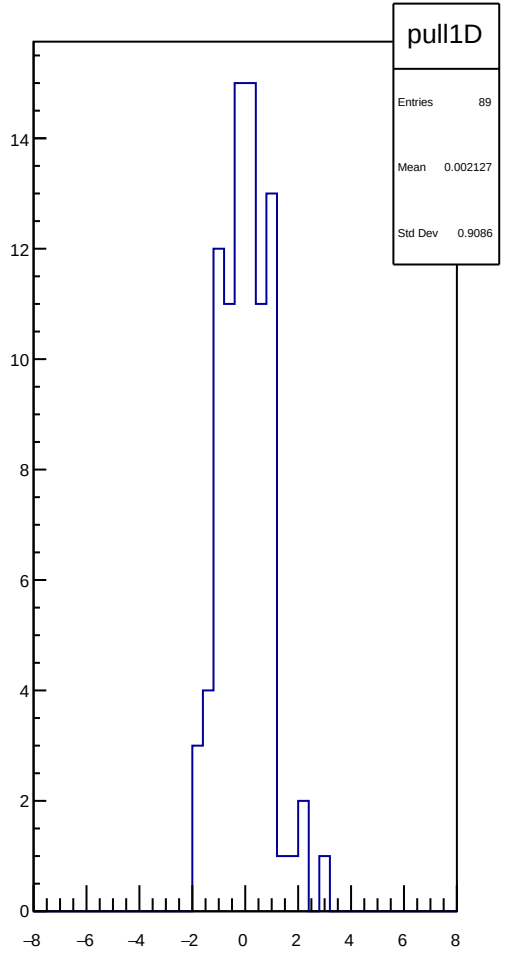

pull1D
Entries 89
Mean 0.005436
Std Dev 0.8873

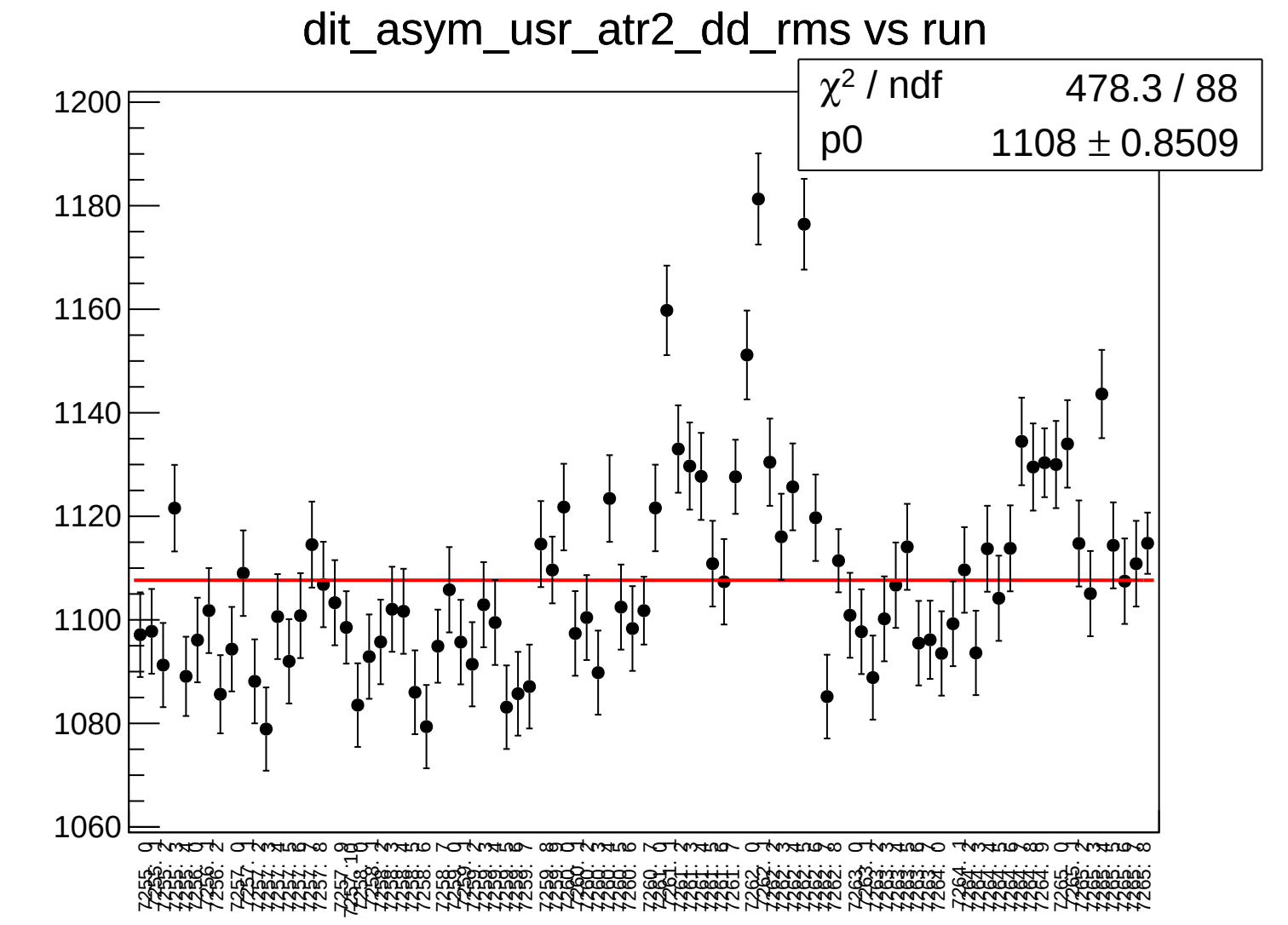

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 122.5 / 88
p0 1087 ± 0.8352
1120
1110
1100
1090
1080
1070
1060

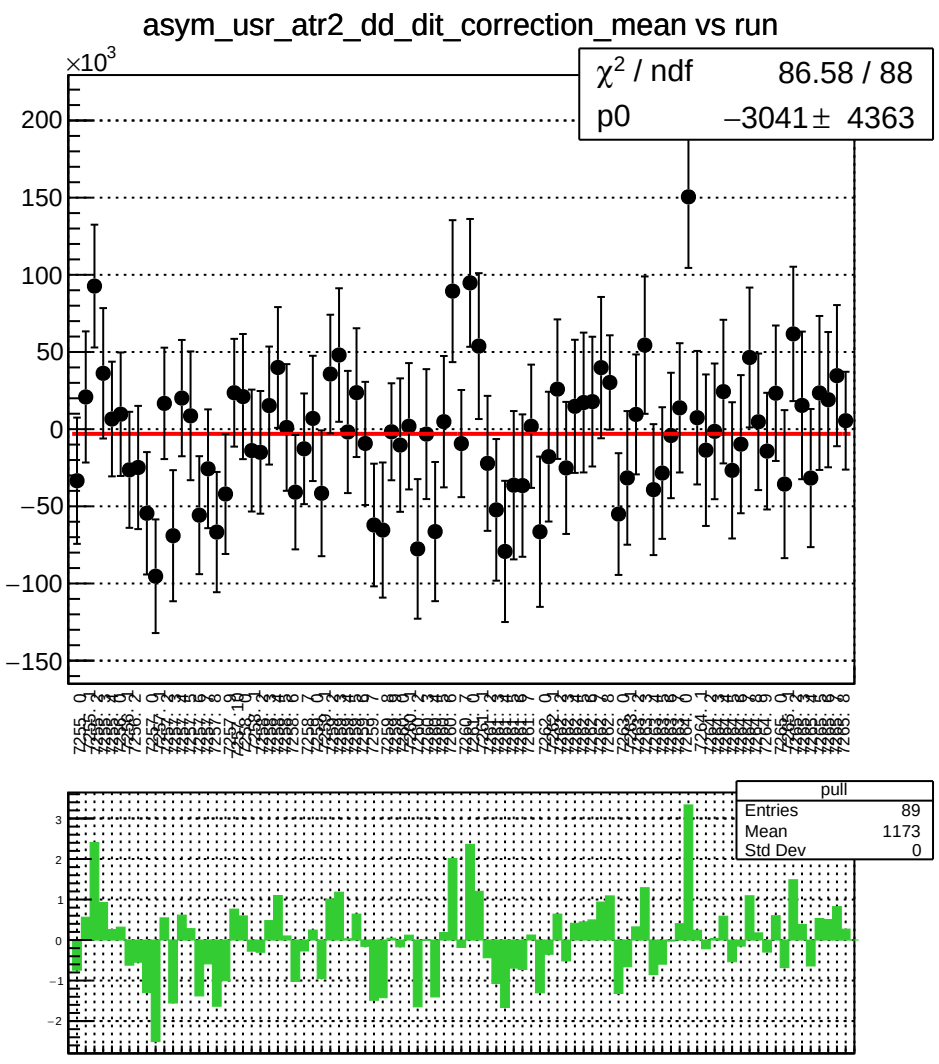

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.48 / 88
p0 −3191 ± 4347
pull
Entries 89
Mean 877
Std Dev 0
pull1D
Entries 89
Mean 0.005016
Std Dev 0.9857

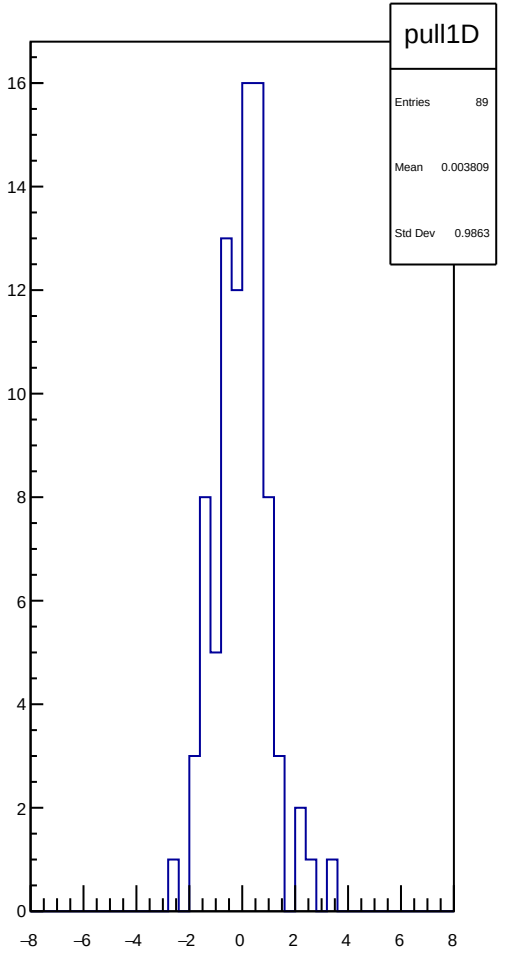

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 8864 / 88
p0 3991 ± 3.073
4800
4600
4400
4200
4000
3800
3600
3400

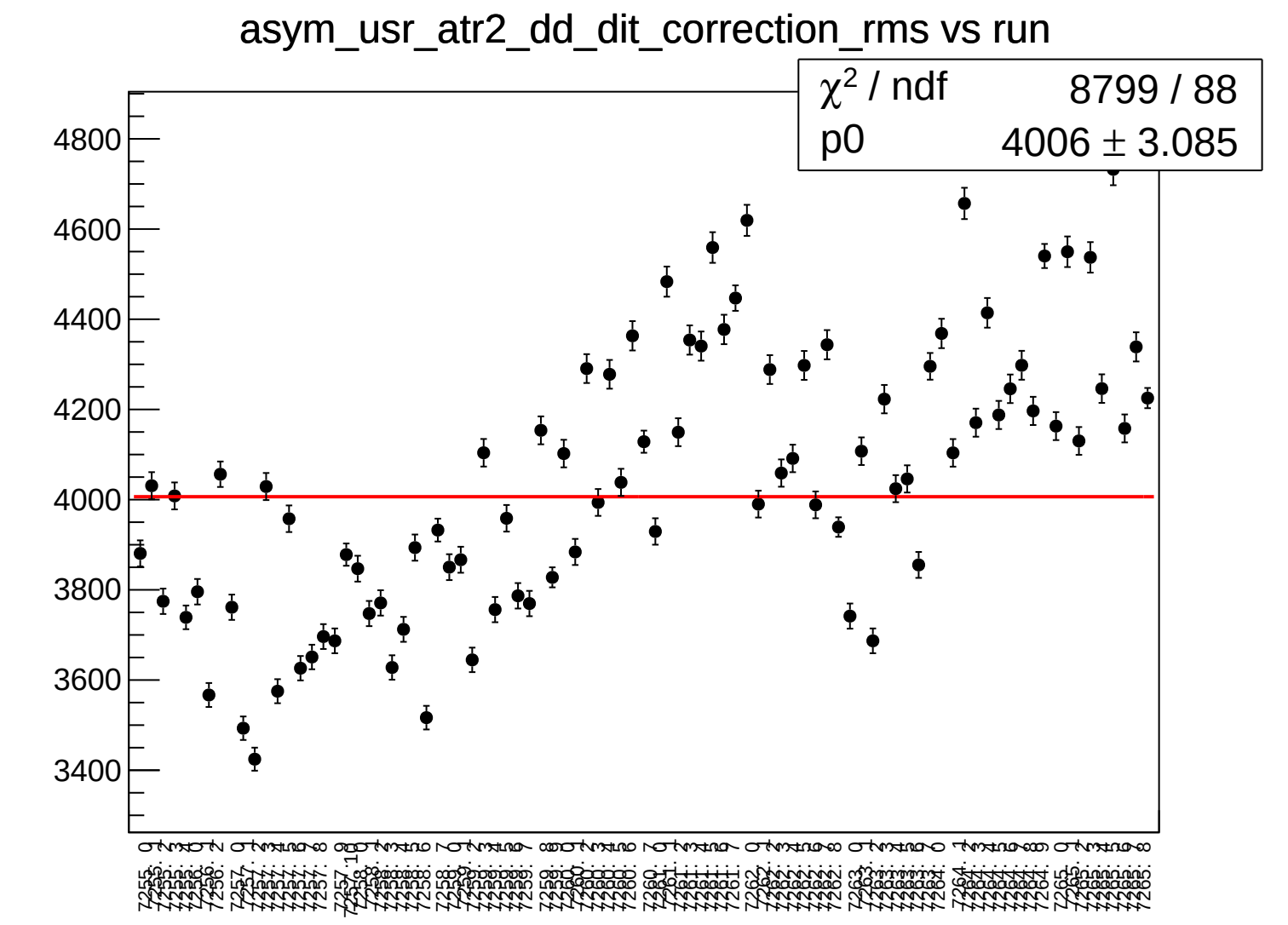

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 73.48 / 88
p0 653.7 ± 1203
pull
Entries 89
Mean −1345
Std Dev 0

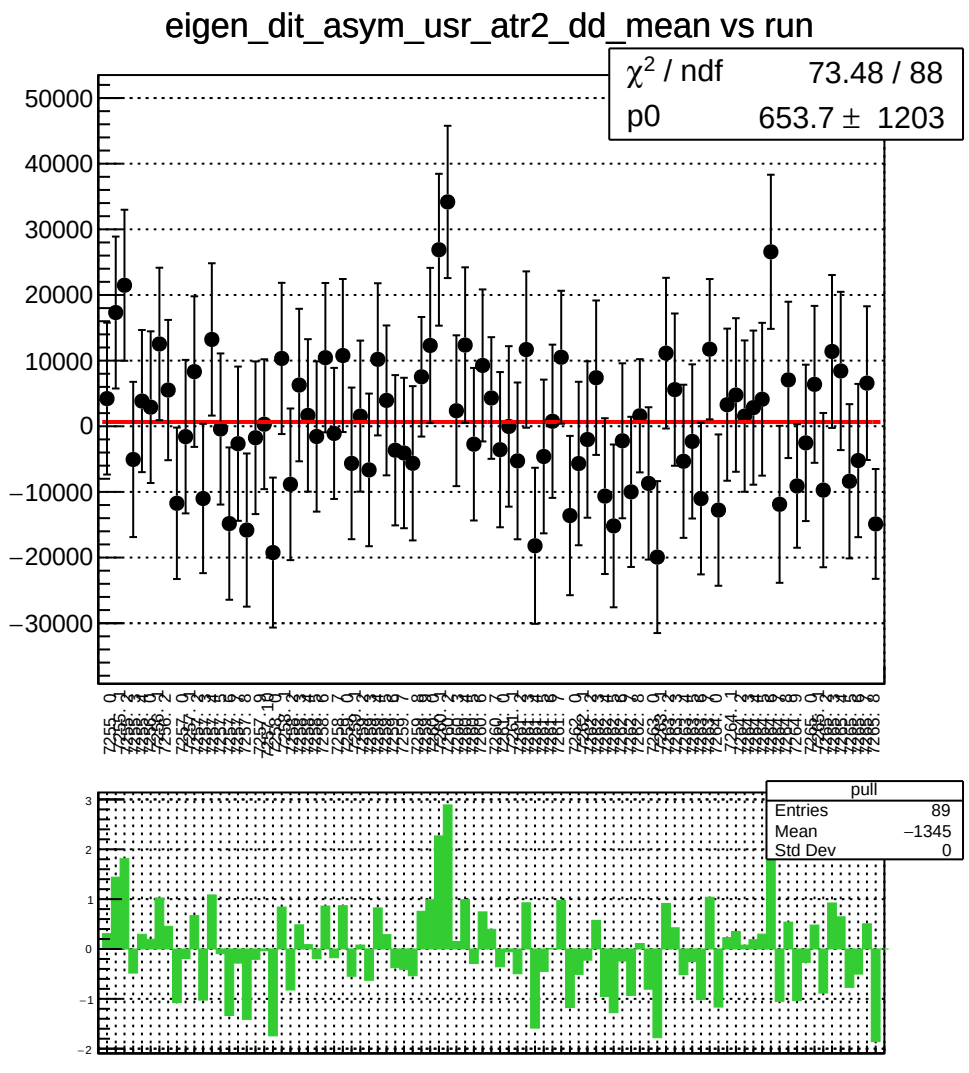

pull1D
Entries 89
Mean 0.002127
Std Dev 0.9086

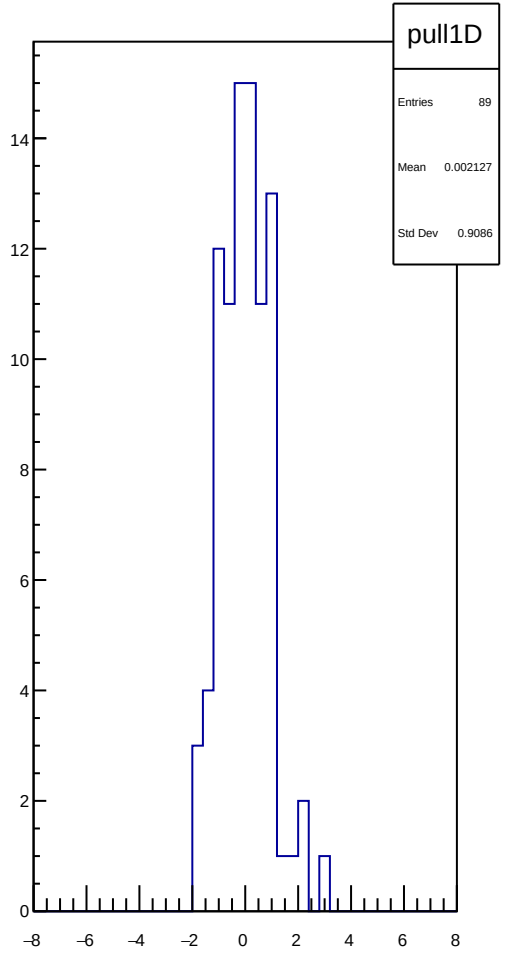

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 478.3 / 88
p0 1108 ± 0.8509
1200
1180
1160
1140
1120
1100
1080
1060

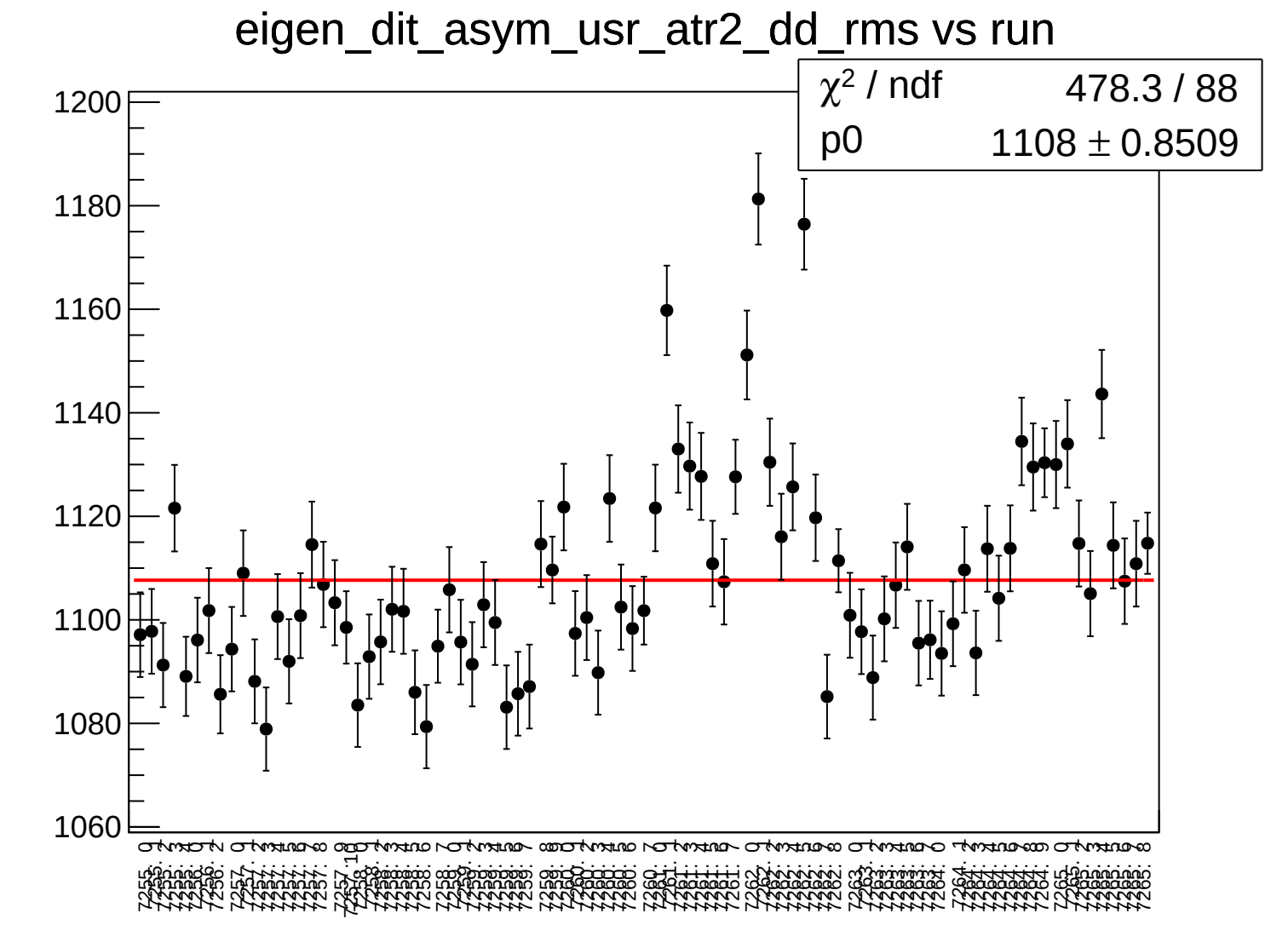

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.58 / 88
p0 −3041 ± 4363
pull
Entries 89
Mean 1173
Std Dev 0

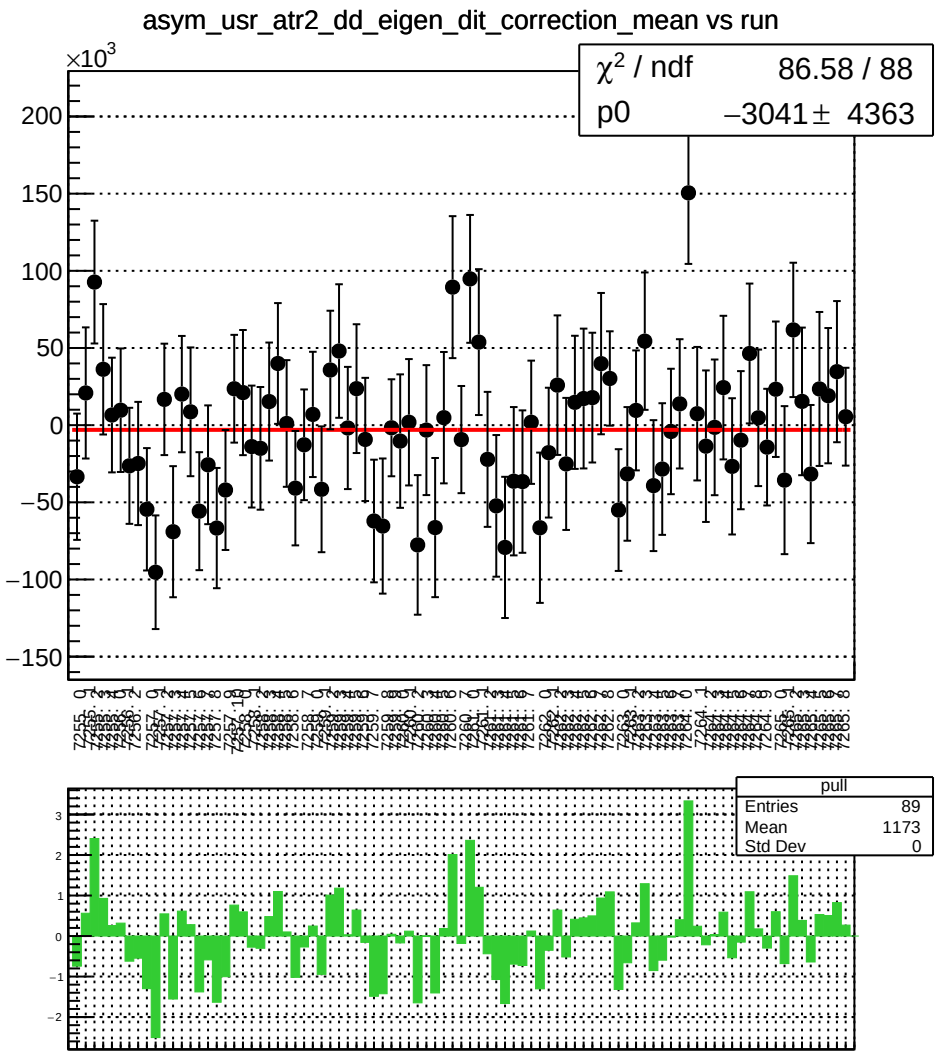

pull1D
Entries 89
Mean 0.003809
Std Dev 0.9863

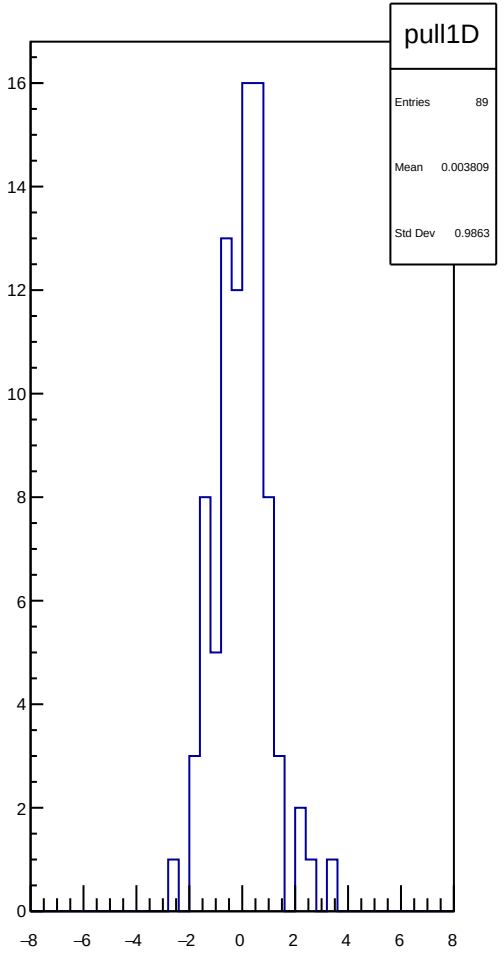

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 8799 / 88
p0 4006 ± 3.085
4800
4600
4400
4200
4000
3800
3600
3400

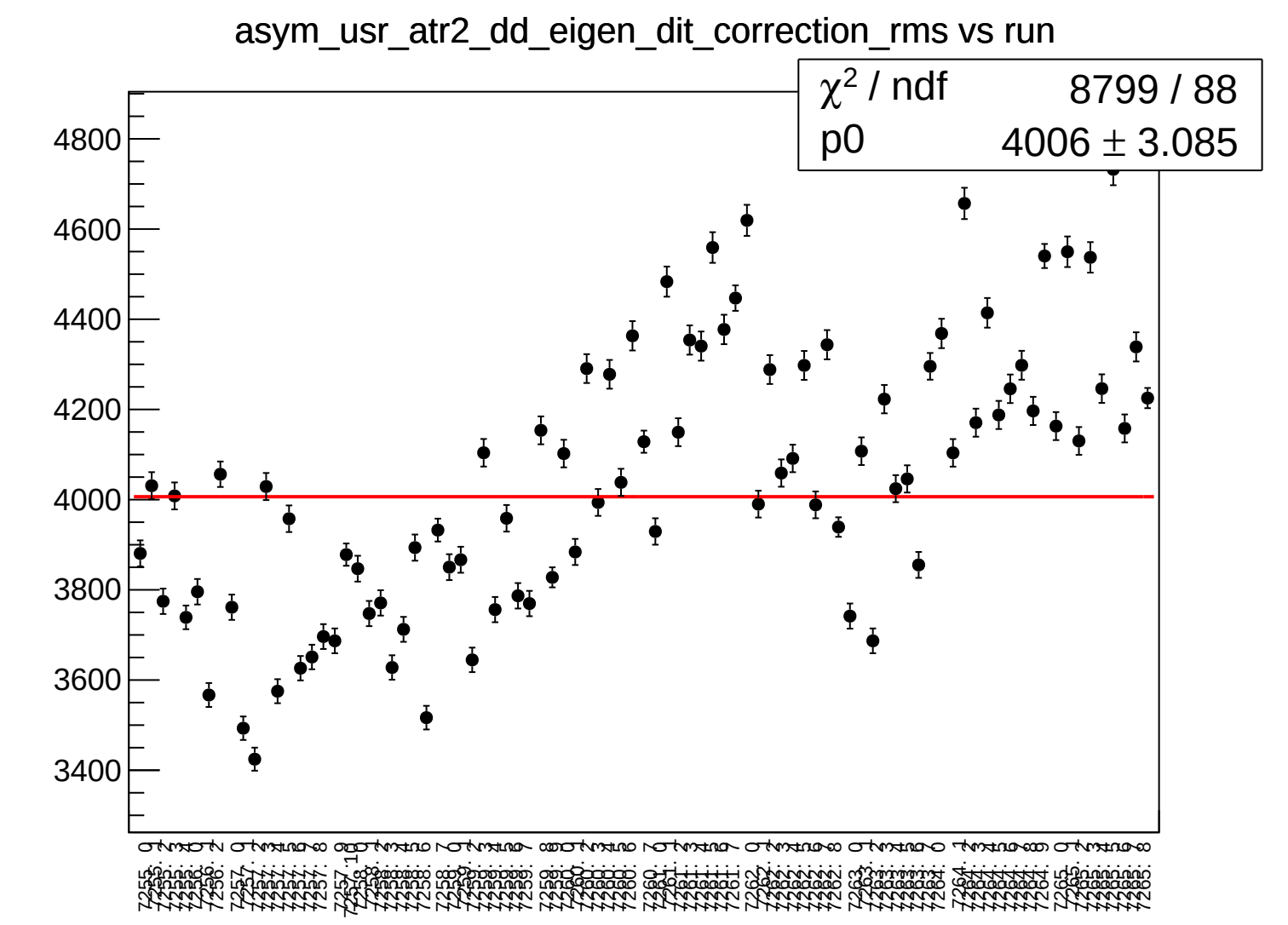

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 73.48 / 88
p0 653.7 ± 1203
pull
Entries 89
Mean −1345
Std Dev 0

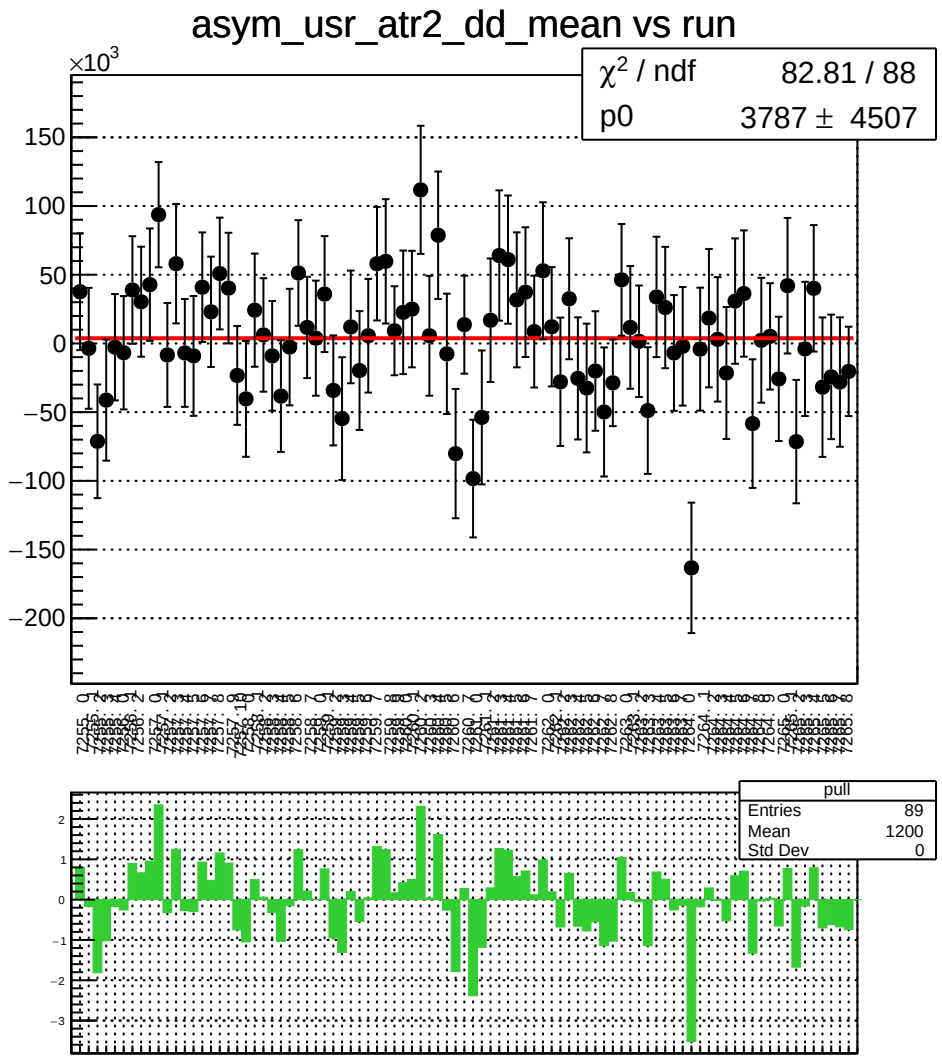

pull1D
Entries 89
Mean 0.002127
Std Dev 0.9086

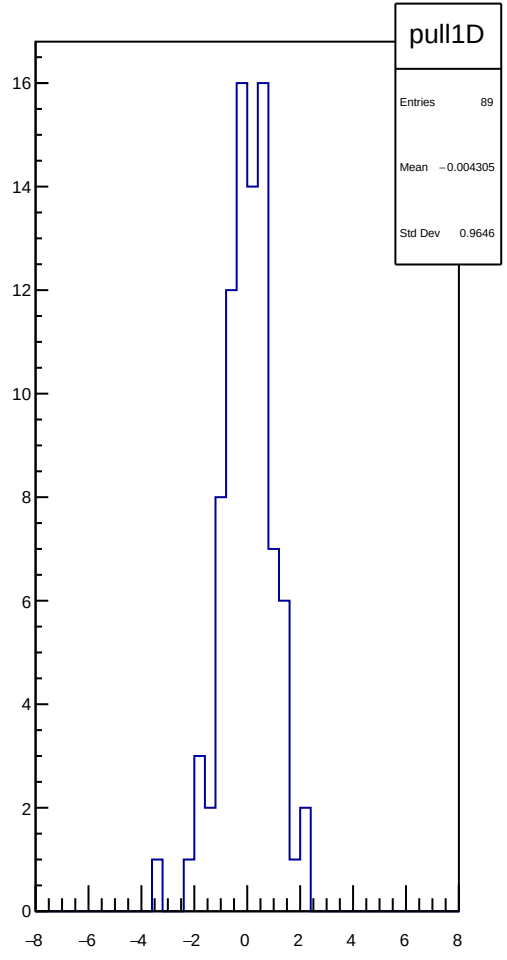

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 478.3 / 88
p0 1108 ± 0.8509
1200
1180
1160
1140
1120
1100
1080
1060

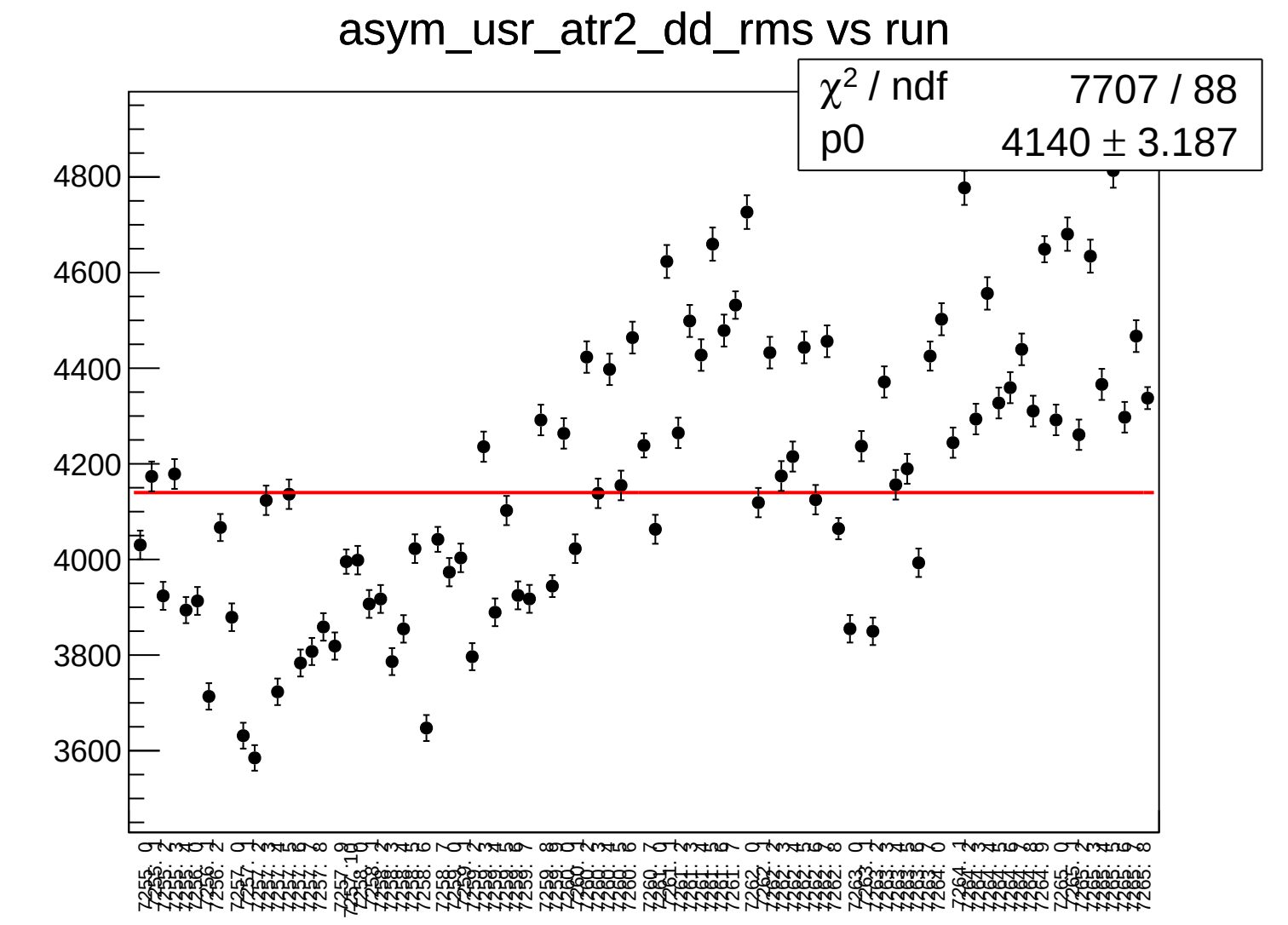

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.58 / 88
p0 −3041 ± 4363
pull
Entries 89
Mean 1173
Std Dev 0

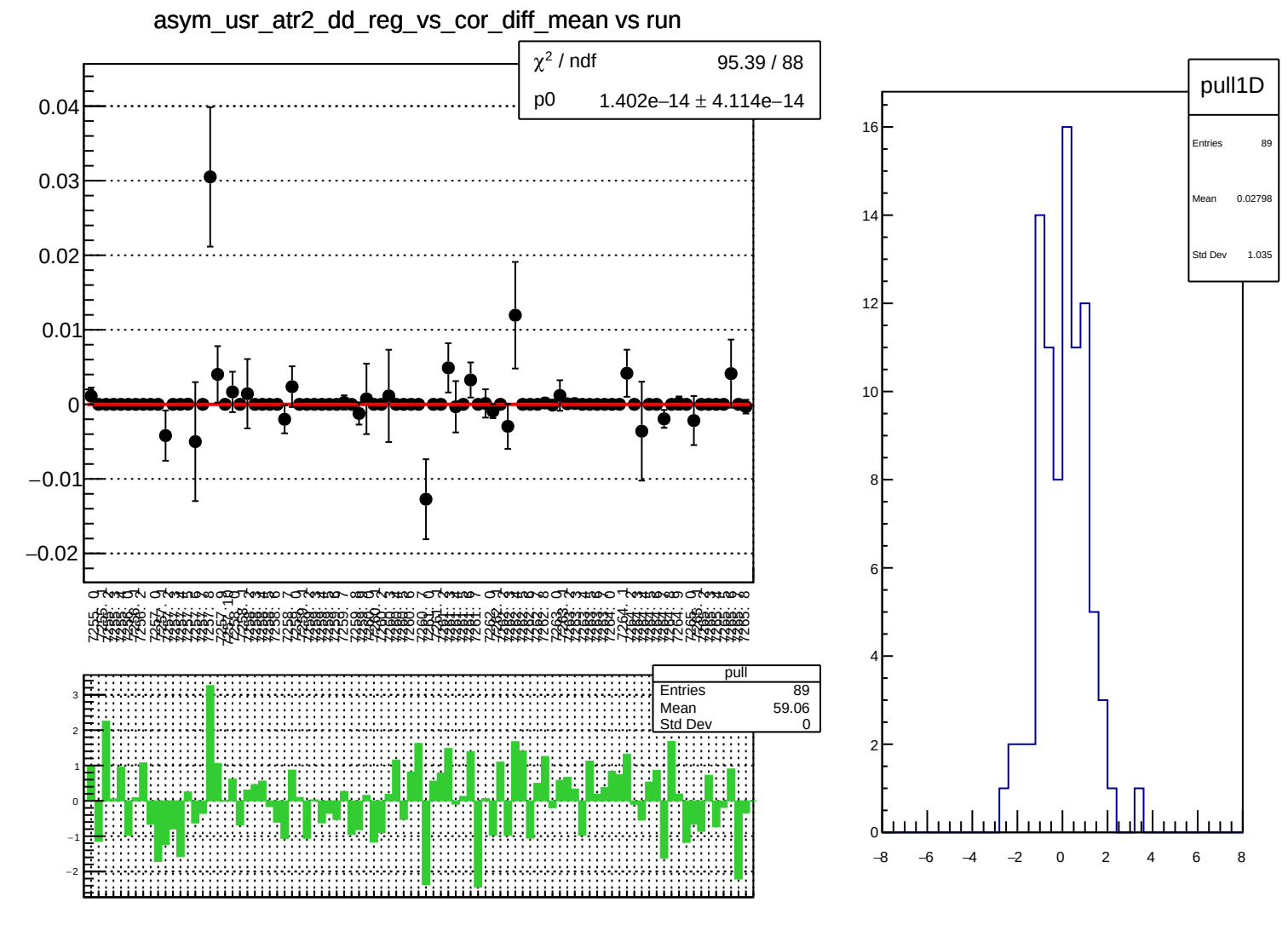

pull1D
Entries 89
Mean 0.003809
Std Dev 0.9863

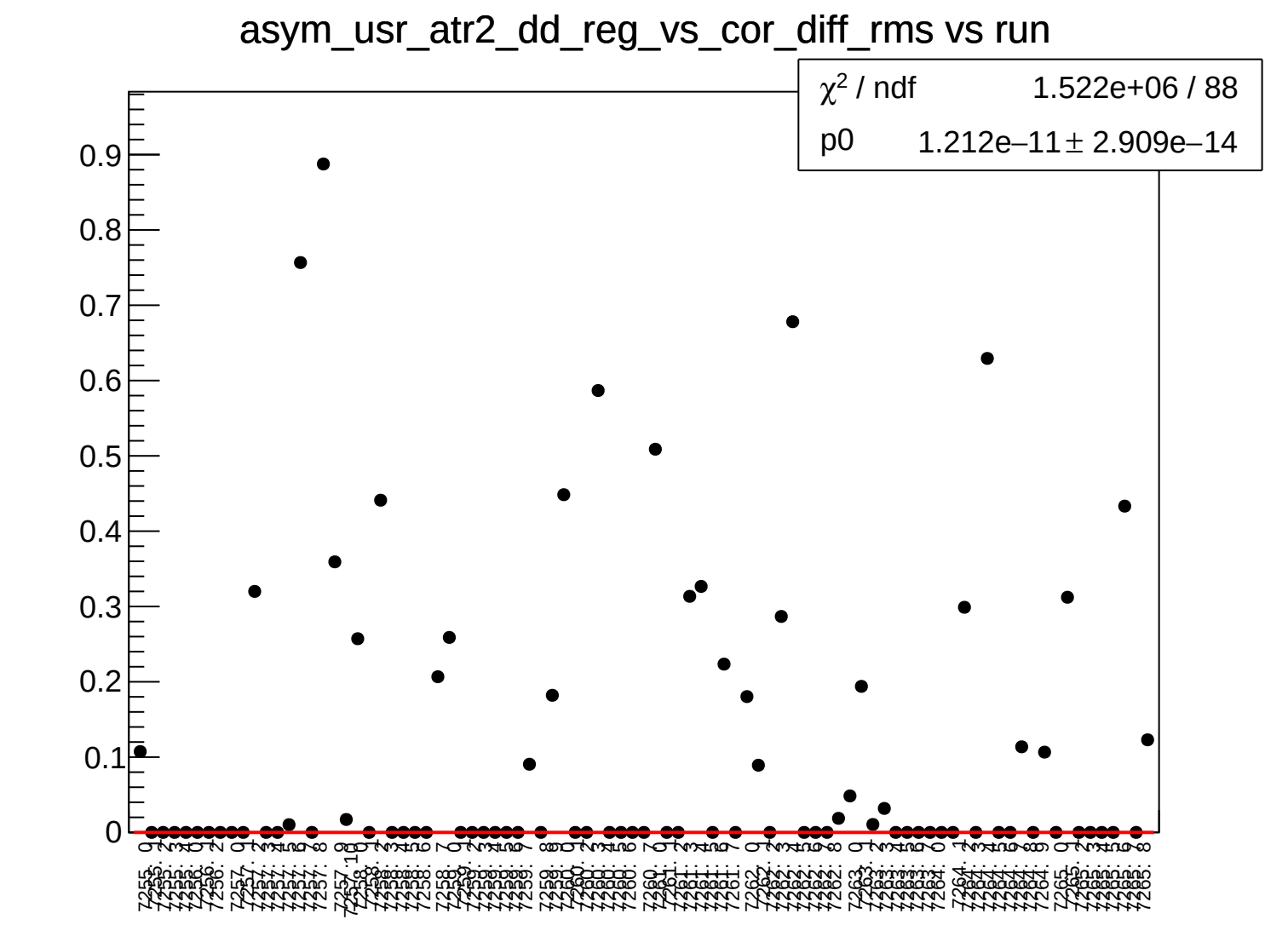

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 8799 / 88
p0 4006 ± 3.085
4800
4600
4400
4200
4000
3800
3600
3400

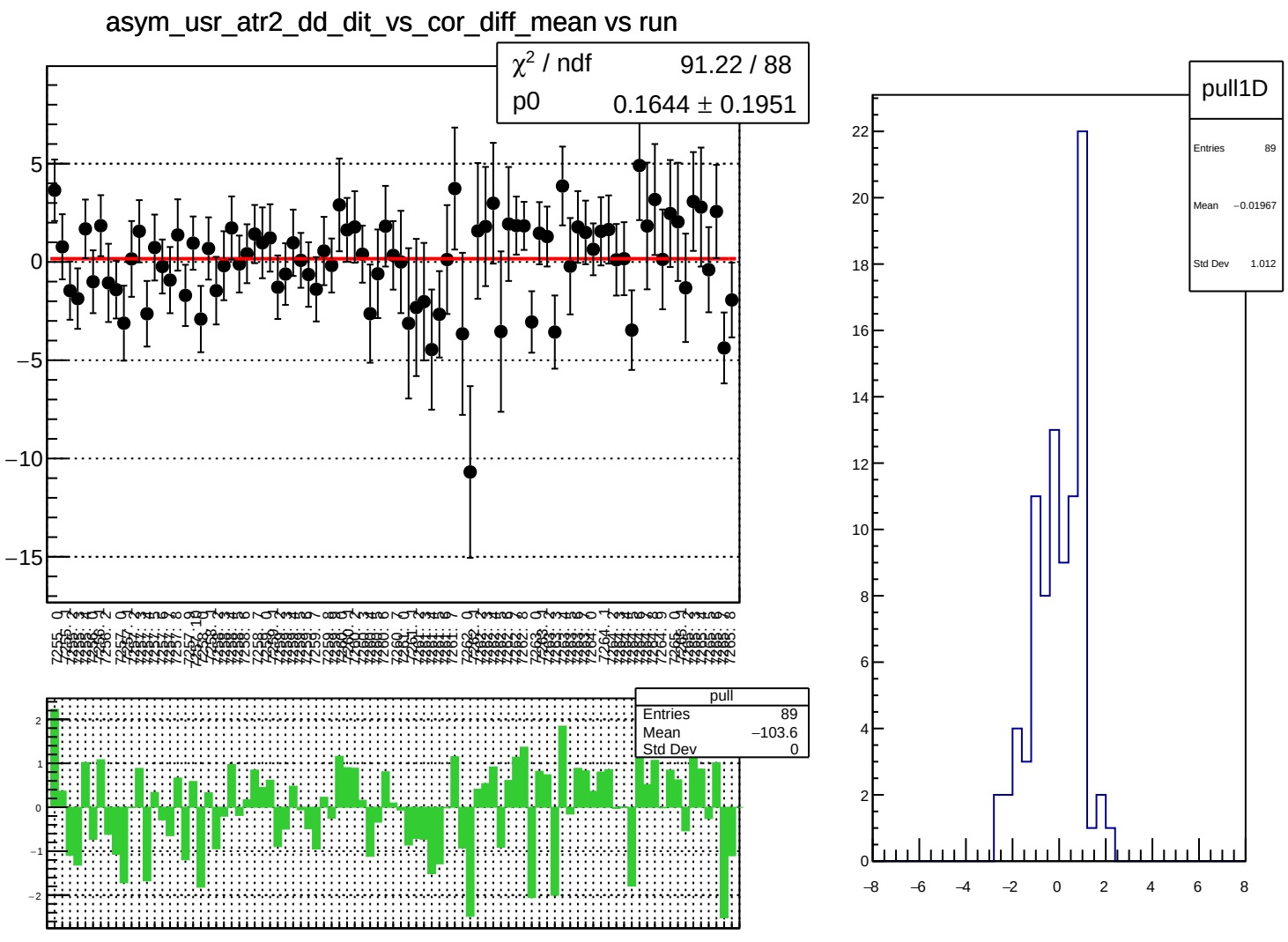

asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 82.81 / 88
p0 3787 ± 4507
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 1200
Std Dev 0
2
1
0
−1
−2
−3

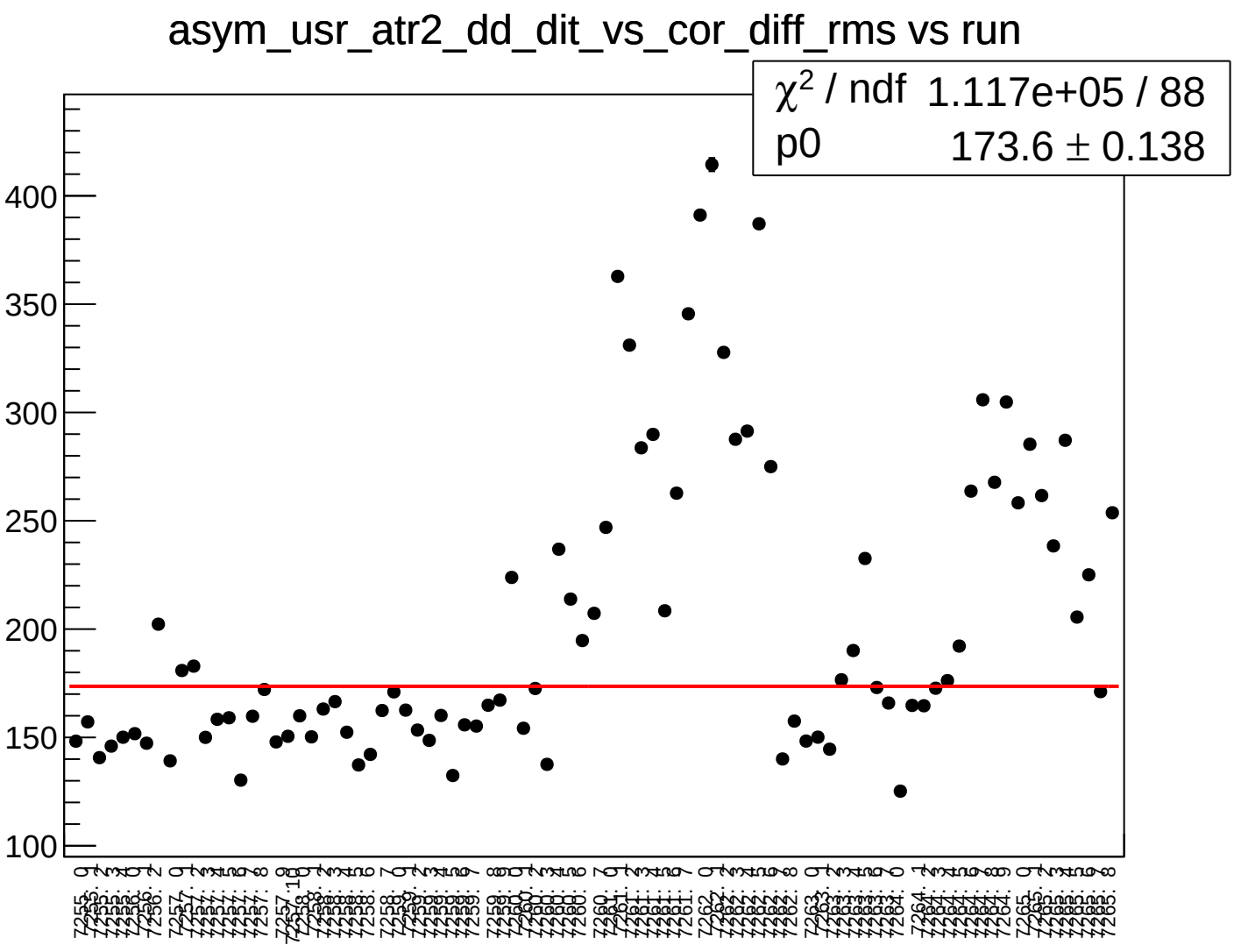

pull1D
Entries 89
Mean −0.004305
Std Dev 0.9646
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

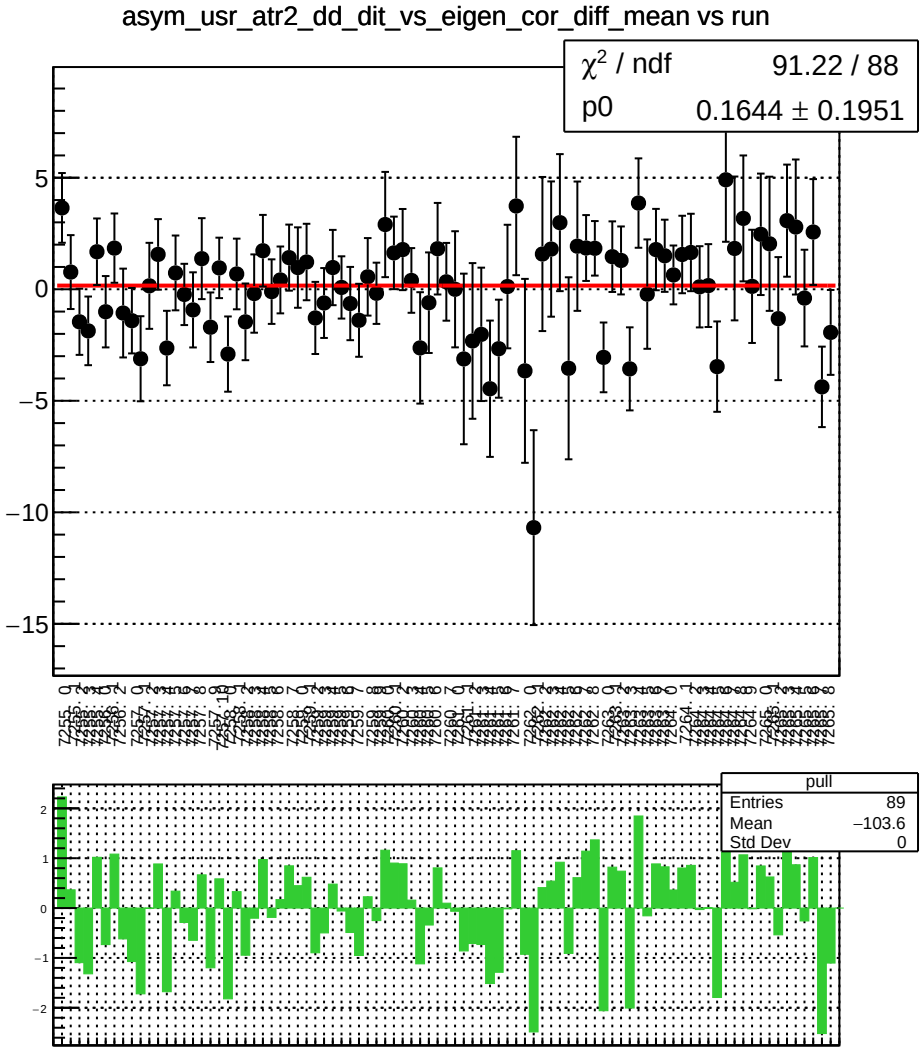

asym_usr_atr2_dd_rms vs run
χ² / ndf 7707 / 88
p0 4140 ± 3.187
4800
4600
4400
4200
4000
3800
3600

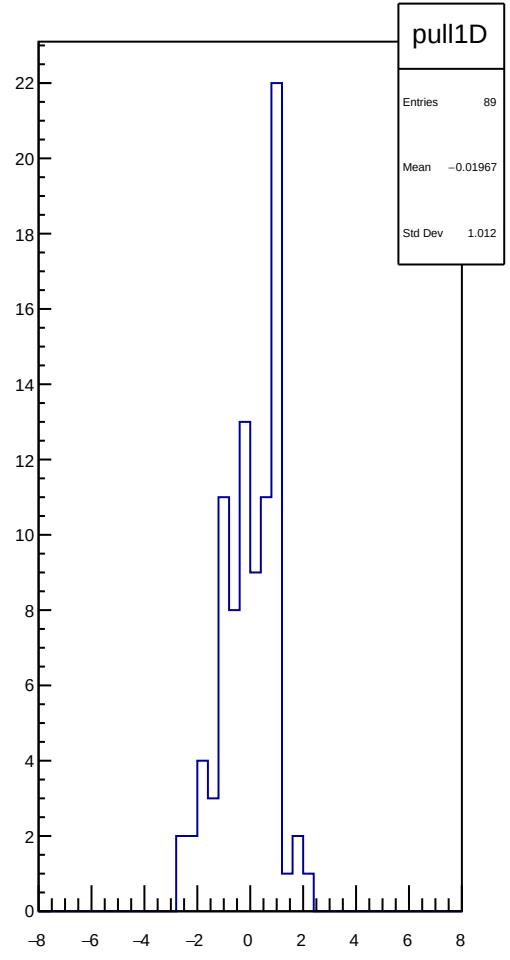

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.39 / 88
p0 1.402e−14 ± 4.114e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 59.06
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02798
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

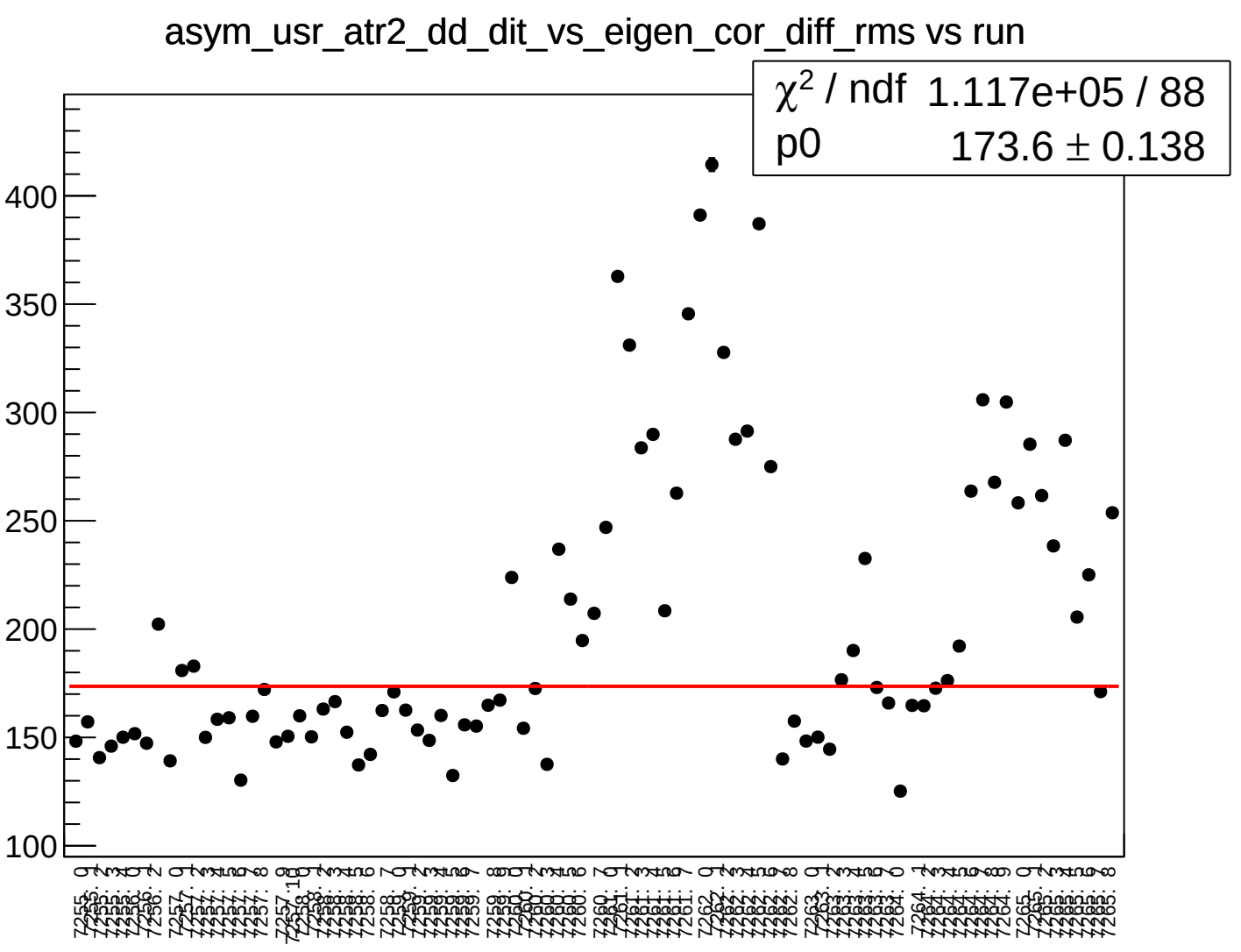

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.522e+06 / 88
p0 1.212e−11 ± 2.909e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

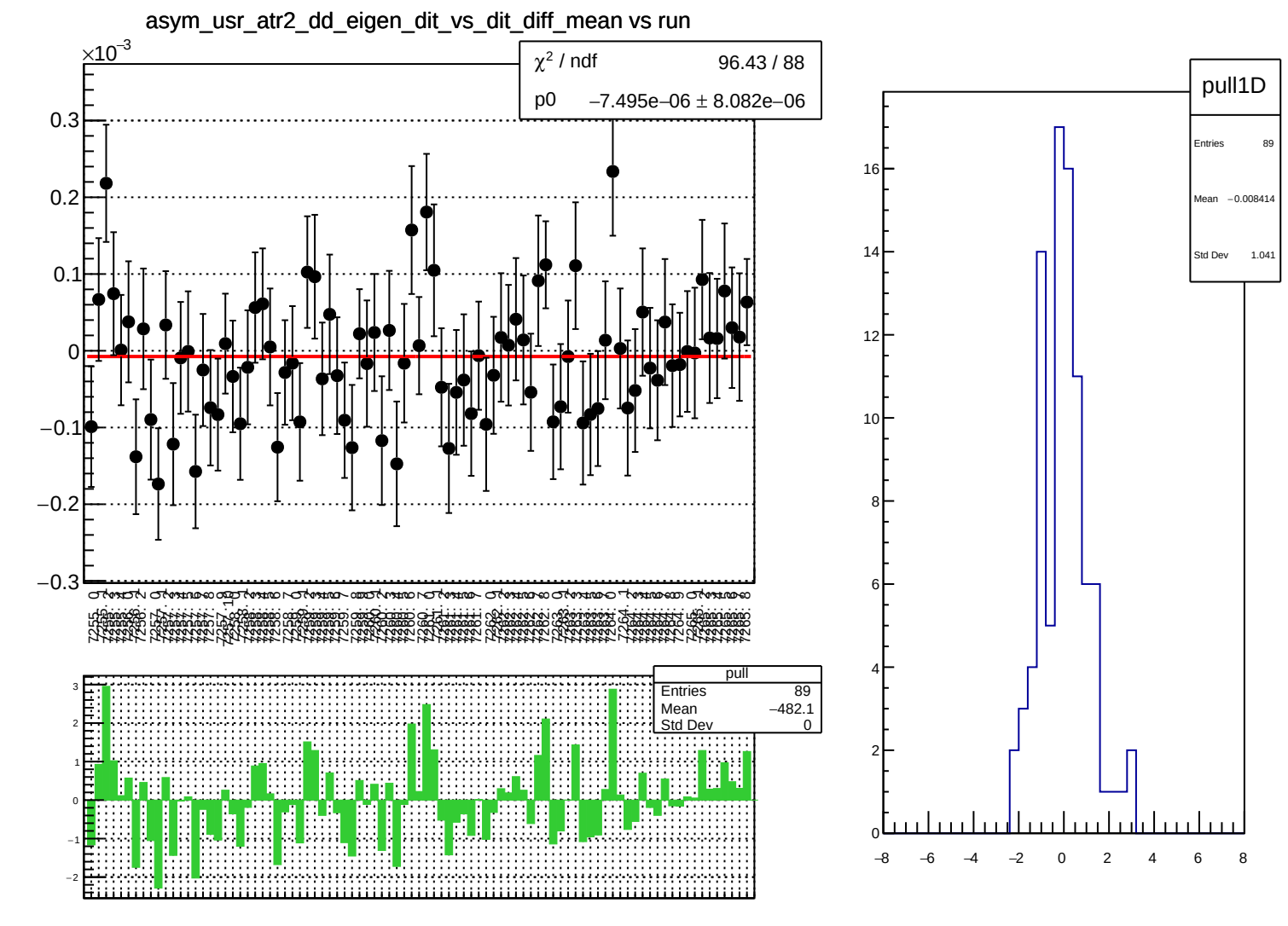

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.22 / 88
p0 0.1644 ± 0.1951
pull
Entries 89
Mean −103.6
Std Dev 0
pull1D
Entries 89
Mean −0.01967
Std Dev 1.012

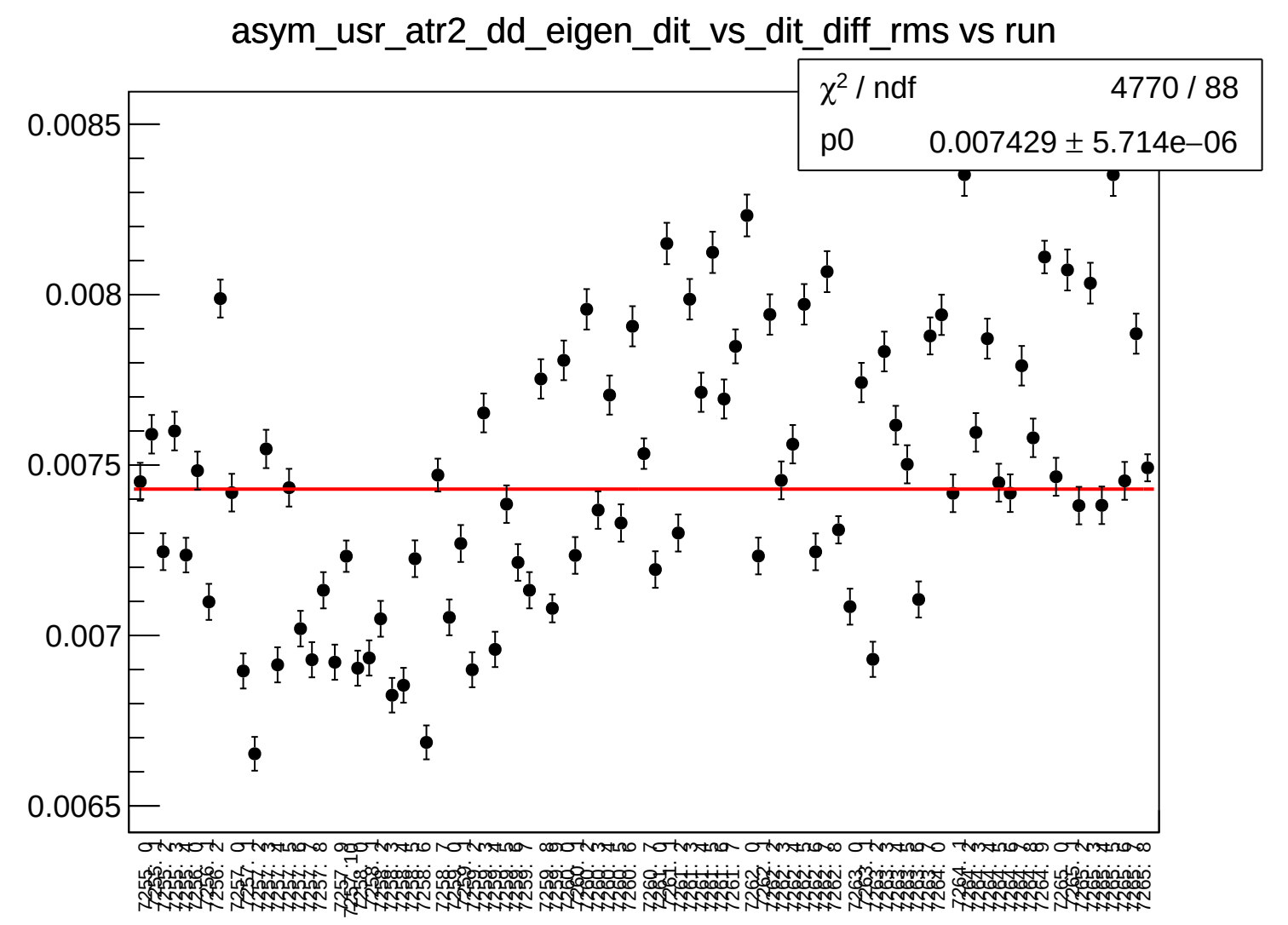

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.117e+05 / 88
p0 173.6 ± 0.138
400
350
300
250
200
150
100

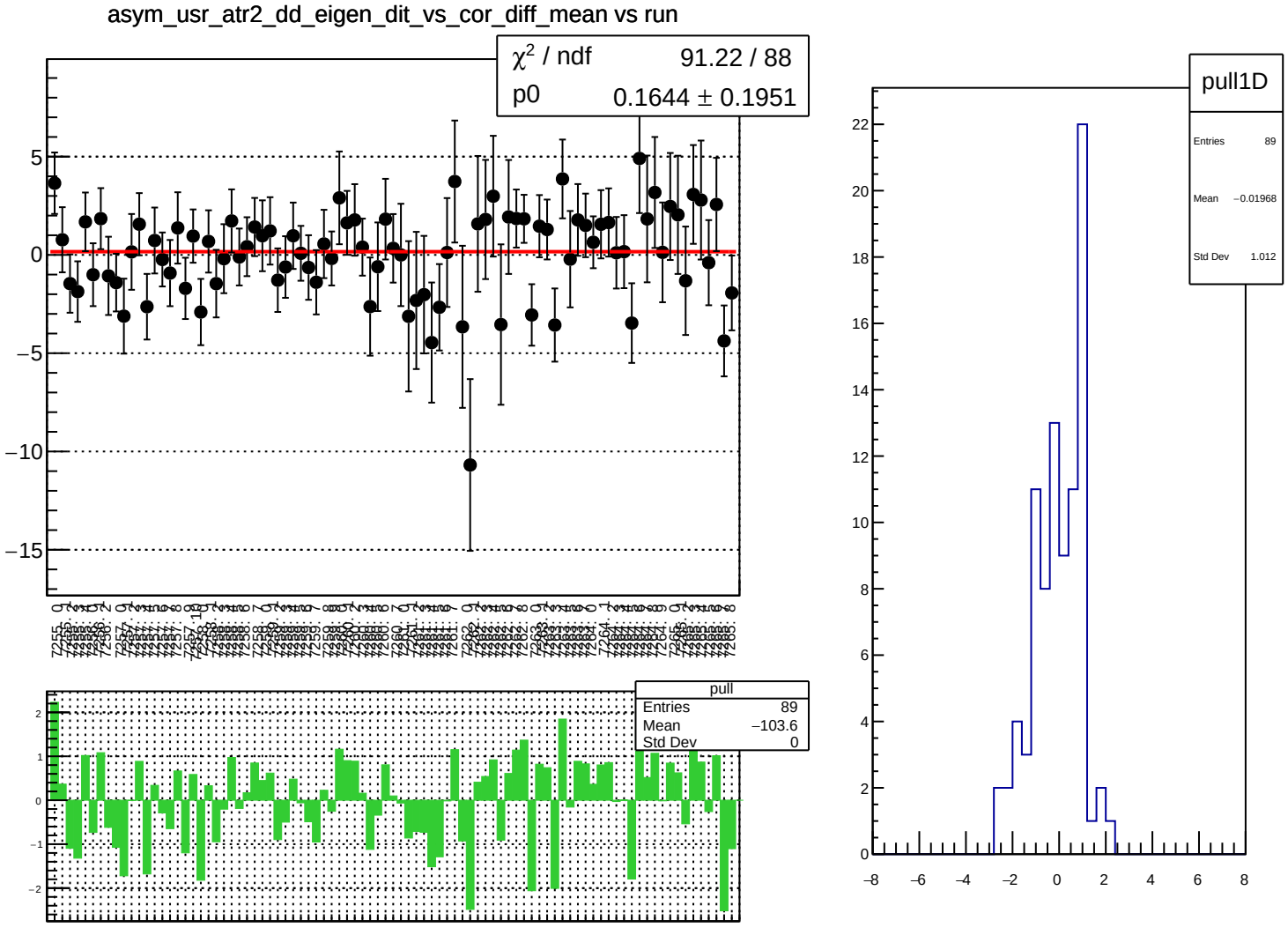

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.22 / 88
p0 0.1644 ± 0.1951
pull
Entries 89
Mean −103.6
Std Dev 0

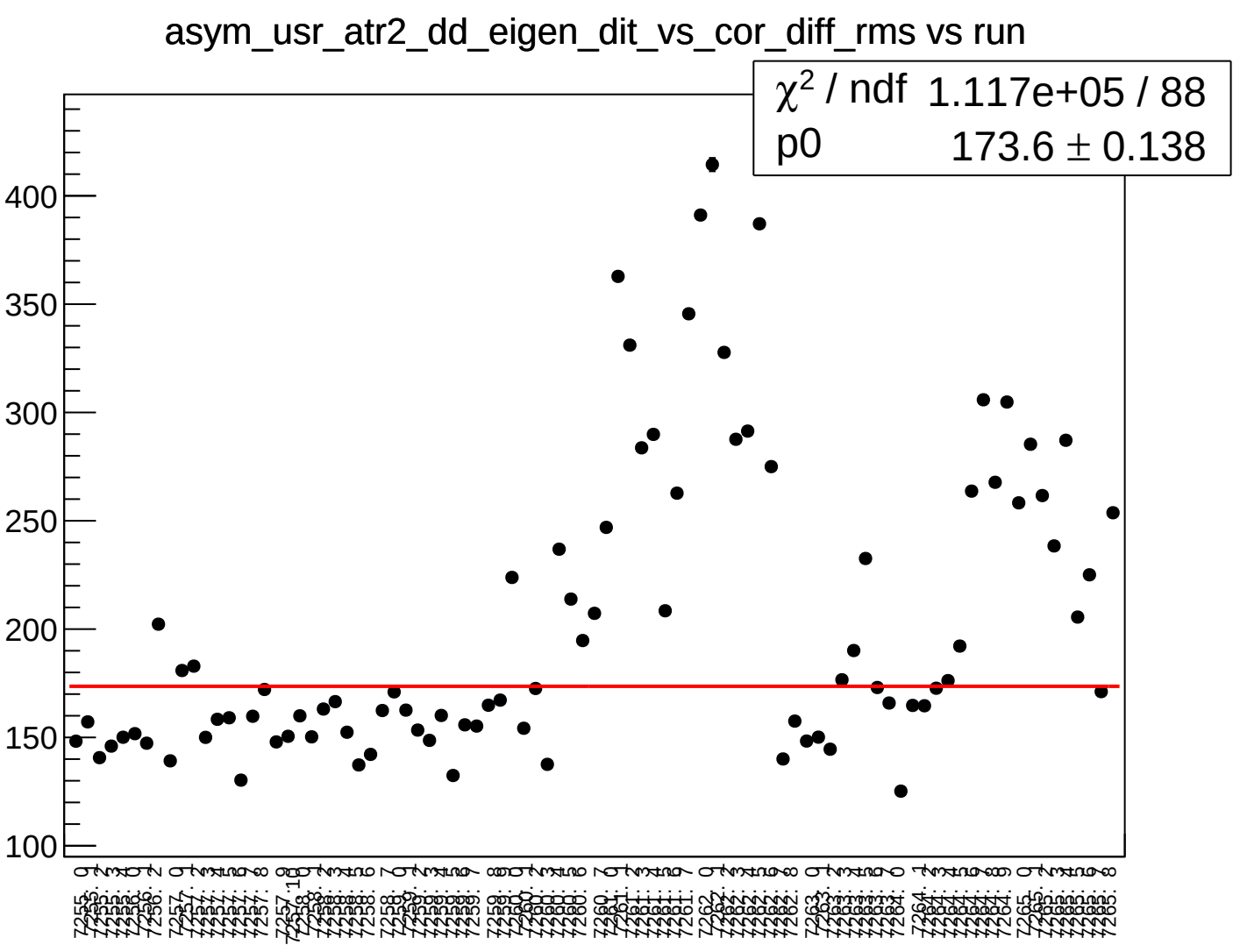

pull1D
Entries 89
Mean −0.01967
Std Dev 1.012

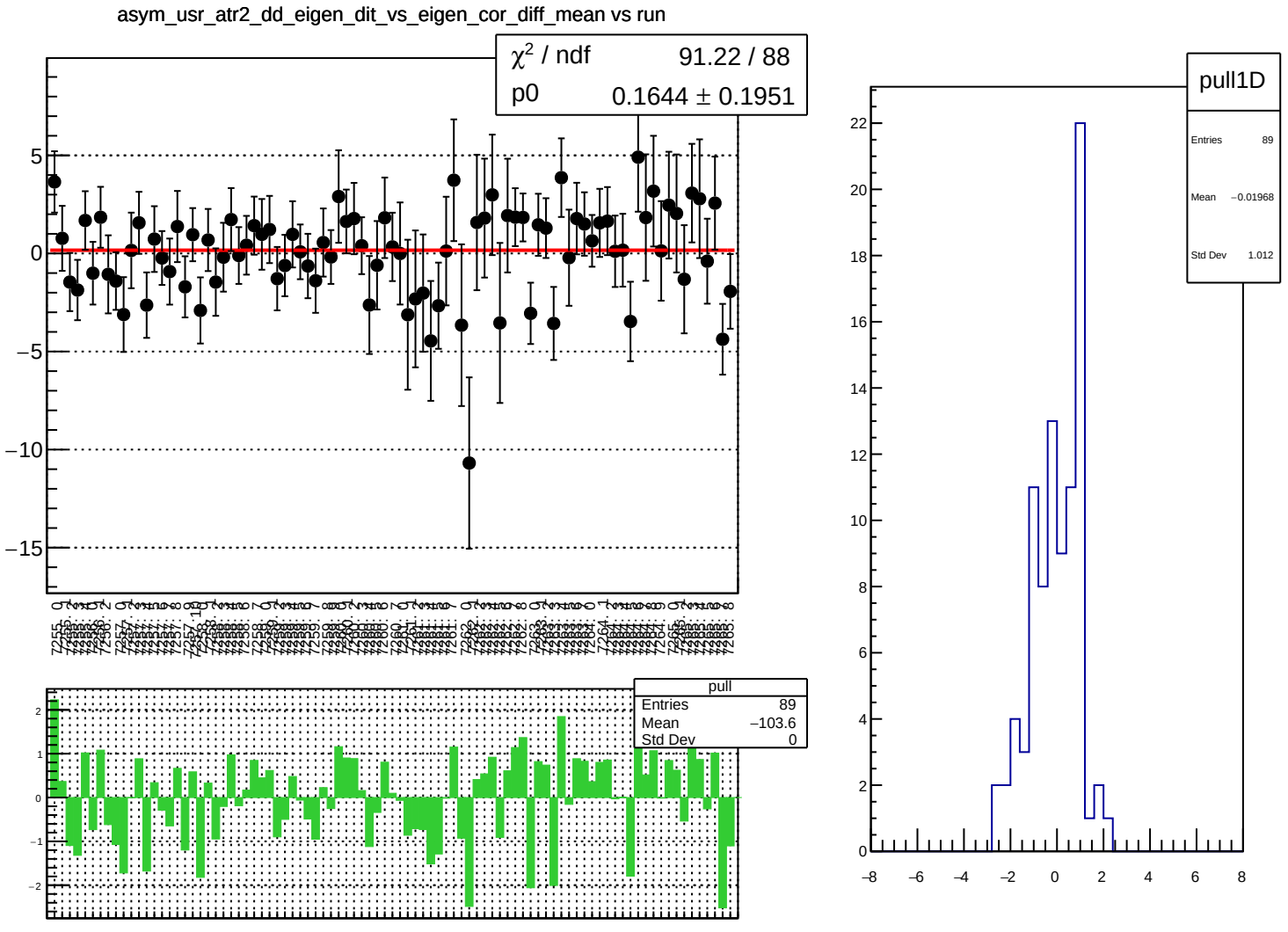

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.117e+05 / 88
p0 173.6 ± 0.138
400
350
300
250
200
150
100

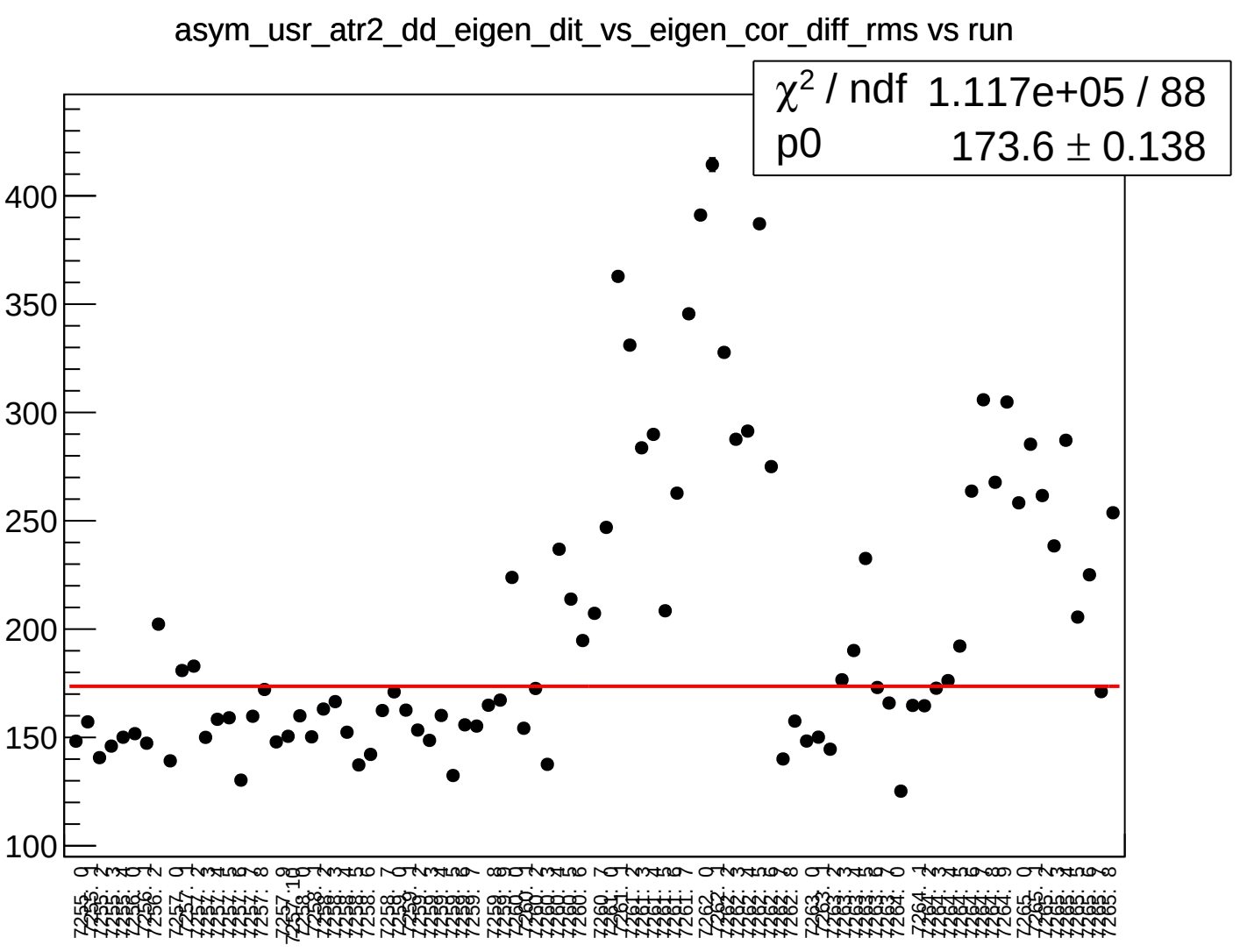

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.43 / 88
p0 −7.495e−06 ± 8.082e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 89
Mean −482.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.008414
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

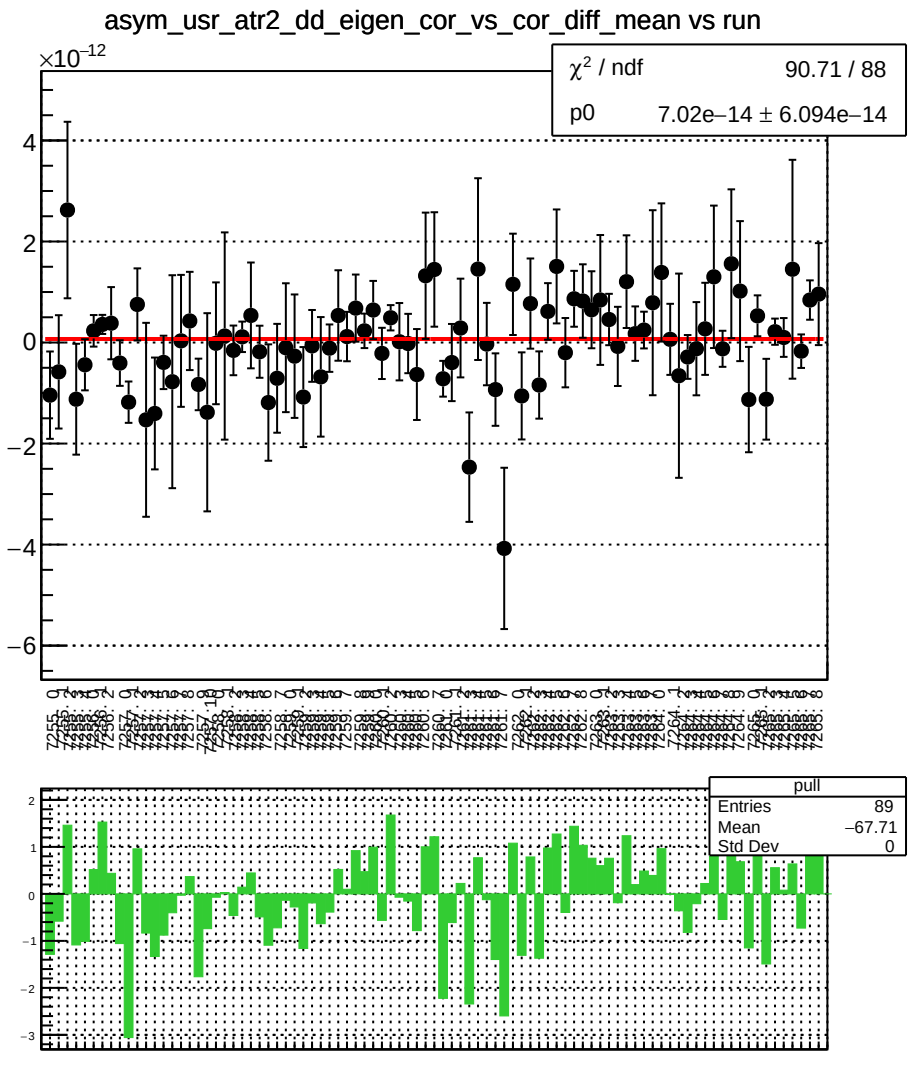

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4770 / 88
p0 0.007429 ± 5.714e−06
0.0085
0.008
0.0075
0.007
0.0065

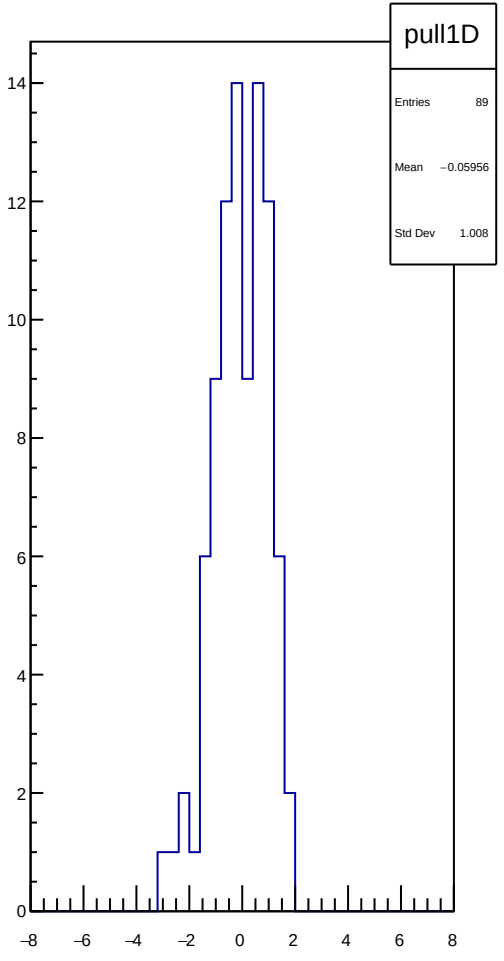

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.22 / 88
p0 0.1644 ± 0.1951
pull
Entries 89
Mean −103.6
Std Dev 0
pull1D
Entries 89
Mean −0.01968
Std Dev 1.012

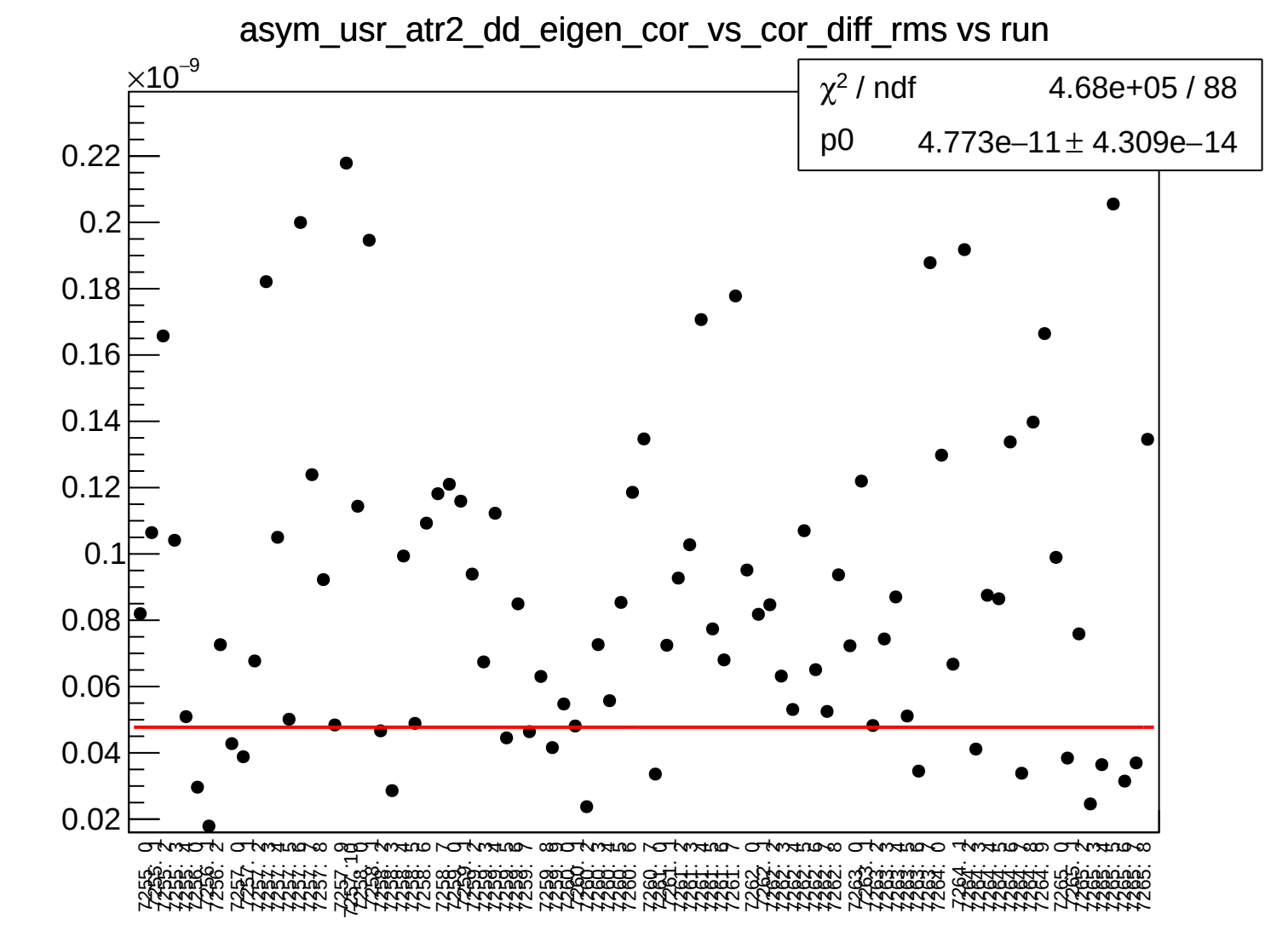

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.117e+05 / 88
p0 173.6 ± 0.138
400
350
300
250
200
150
100

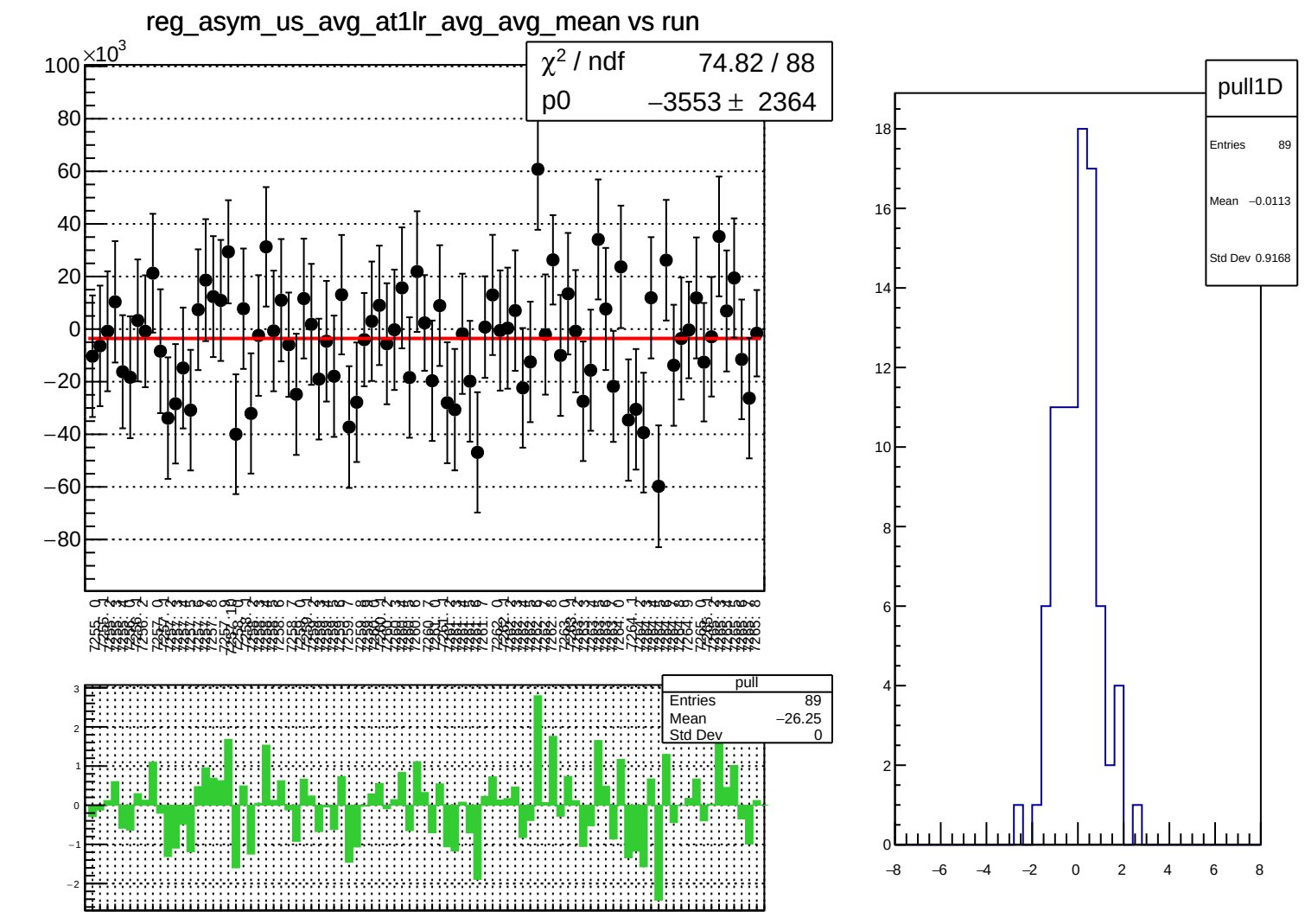

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.22 / 88
p0 0.1644 ± 0.1951
pull
Entries 89
Mean −103.6
Std Dev 0
pull1D
Entries 89
Mean −0.01968
Std Dev 1.012

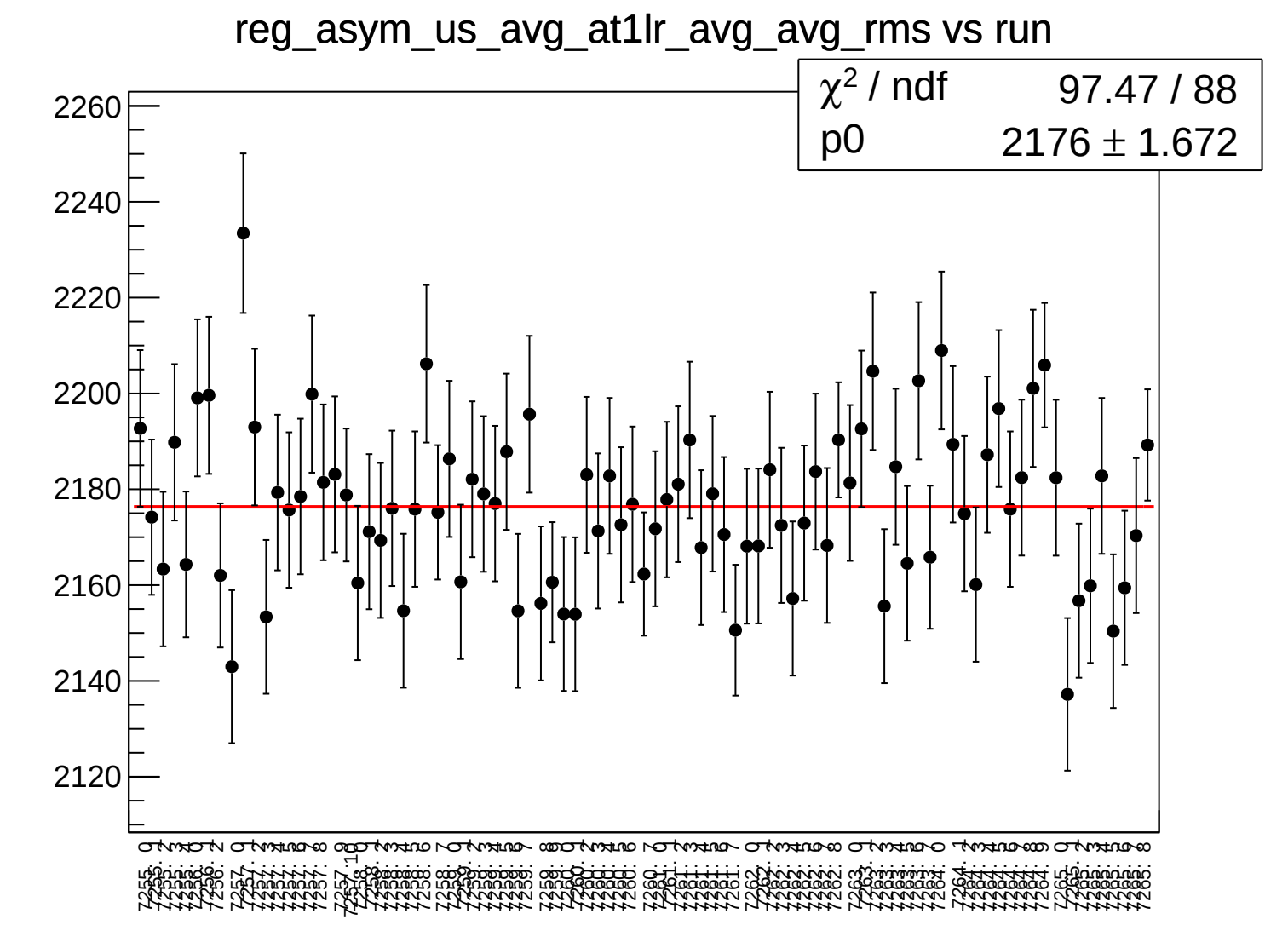

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.117e+05 / 88
p0 173.6 ± 0.138
400
350
300
250
200
150
100

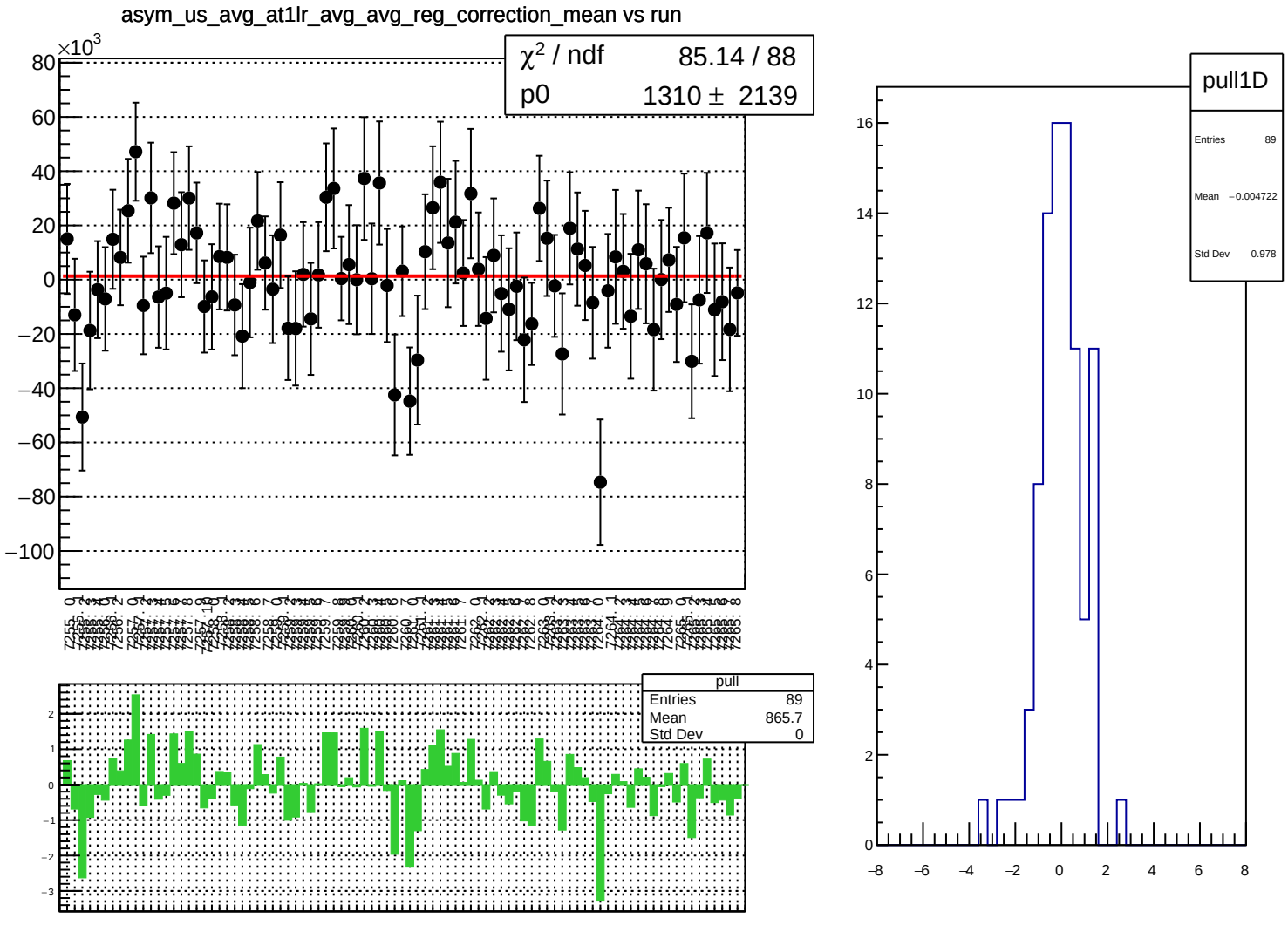

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.71 / 88
p0 7.02e−14 ± 6.094e−14
pull
Entries 89
Mean −67.71
Std Dev 0

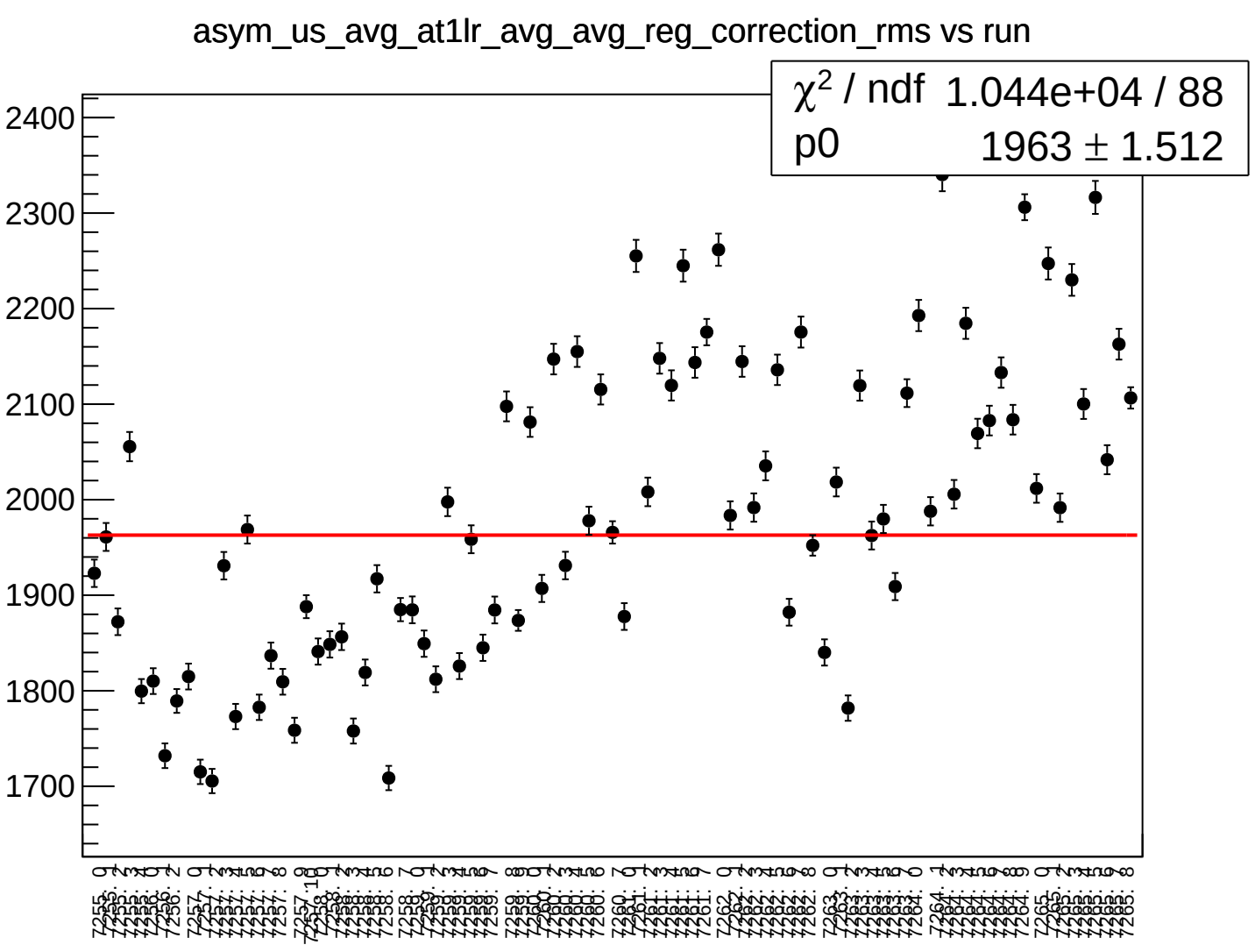

pull1D
Entries 89
Mean −0.05956
Std Dev 1.008

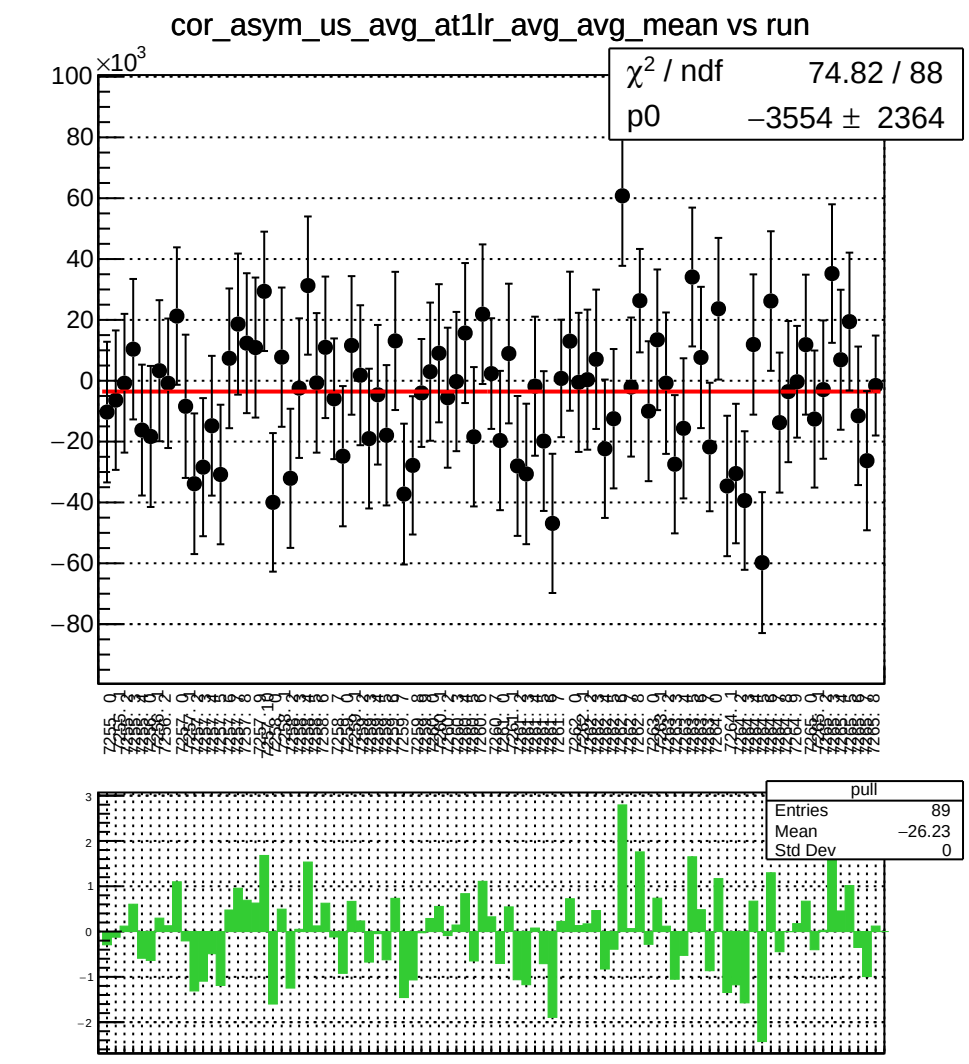

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.68e+05 / 88
p0 4.773e−11 ± 4.309e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

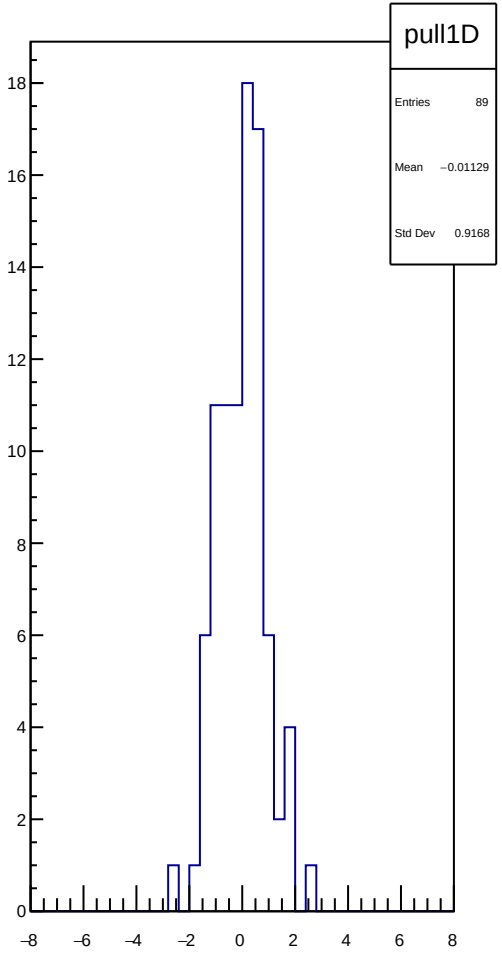

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 74.82 / 88
p0 −3553 ± 2364
×10³
pull
Entries 89
Mean −26.25
Std Dev 0
pull1D
Entries 89
Mean −0.0113
Std Dev 0.9168

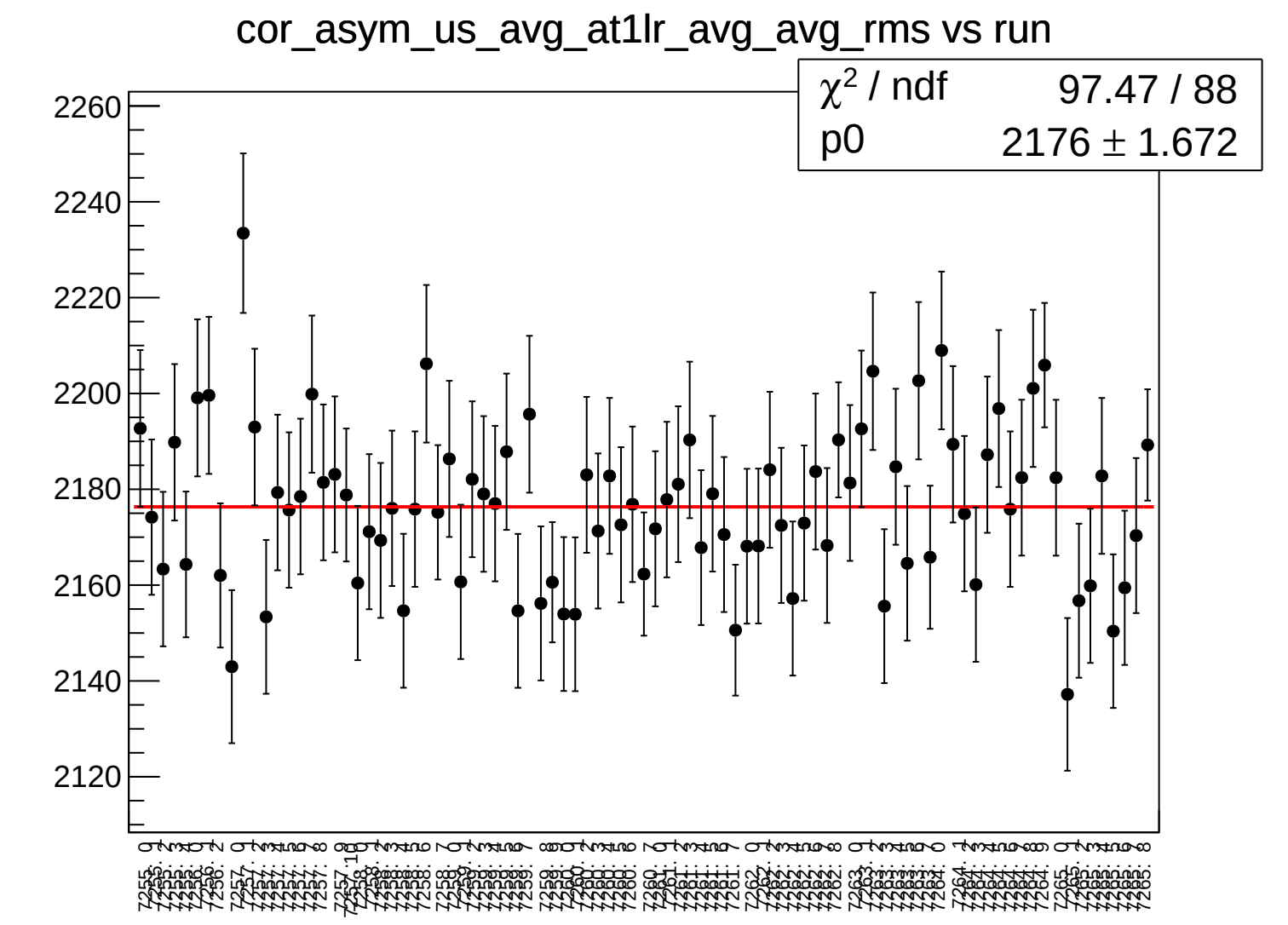

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 97.47 / 88
p0 2176 ± 1.672
2260
2240
2220
2200
2180
2160
2140
2120

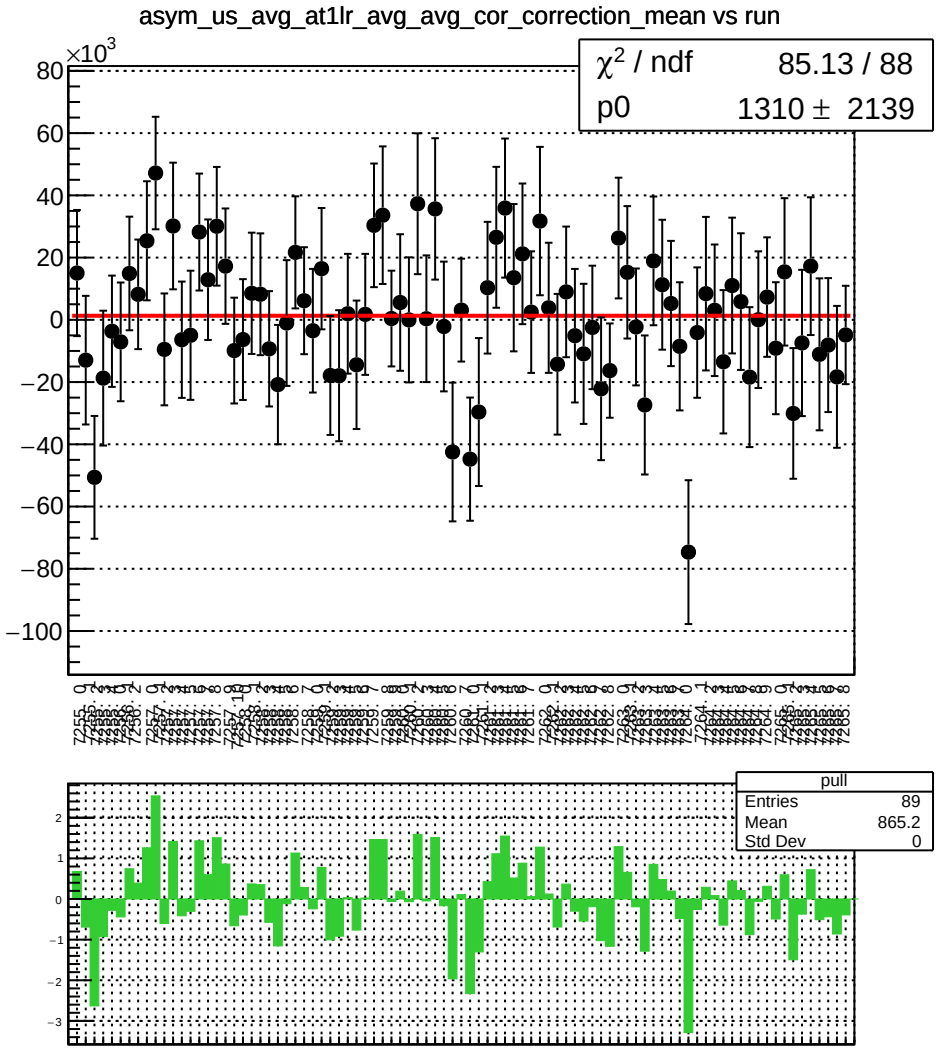

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 85.14 / 88
p0 1310 ± 2139
pull
Entries 89
Mean 865.7
Std Dev 0
pull1D
Entries 89
Mean −0.004722
Std Dev 0.978

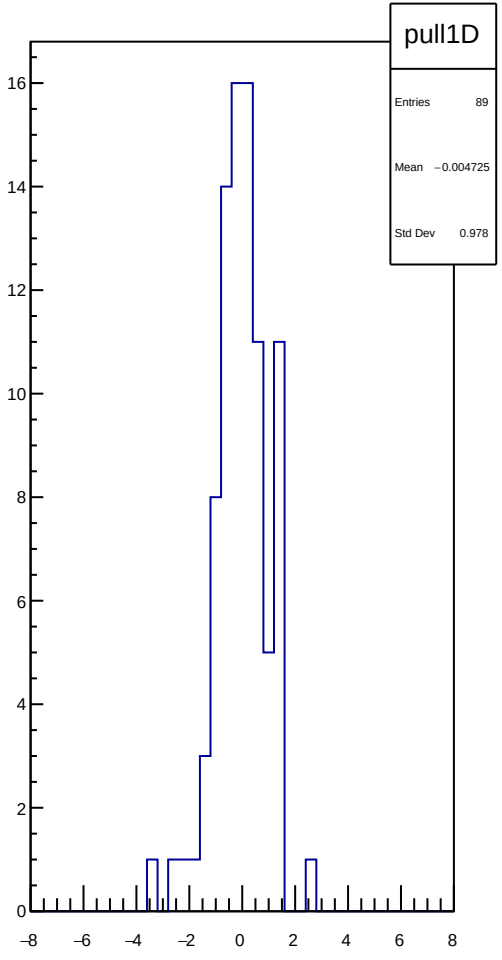

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.044e+04 / 88
p0 1963 ± 1.512
2400
2300
2200
2100
2000
1900
1800
1700

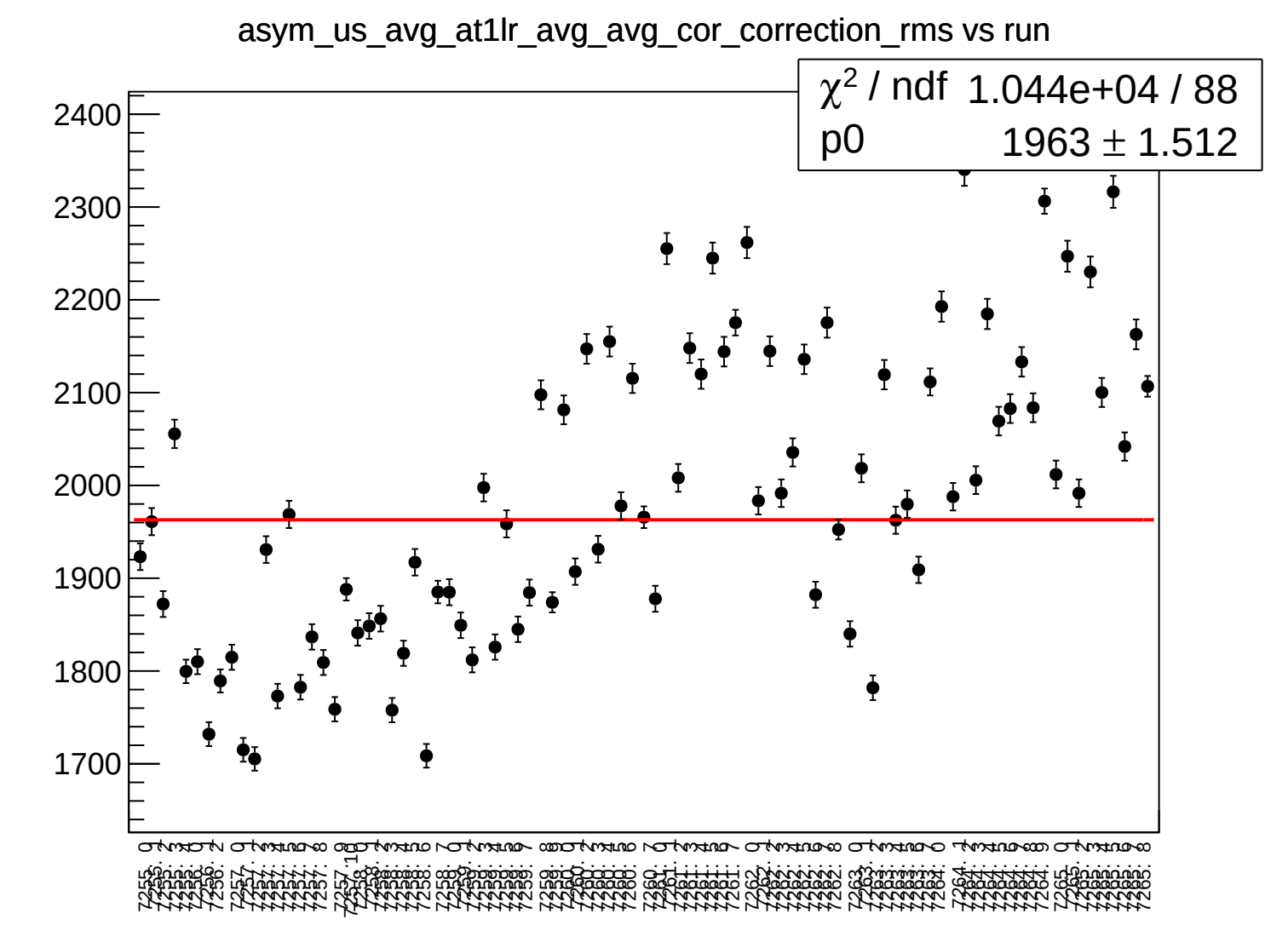

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 74.82 / 88
p0 −3554 ± 2364
pull
Entries 89
Mean −26.23
Std Dev 0

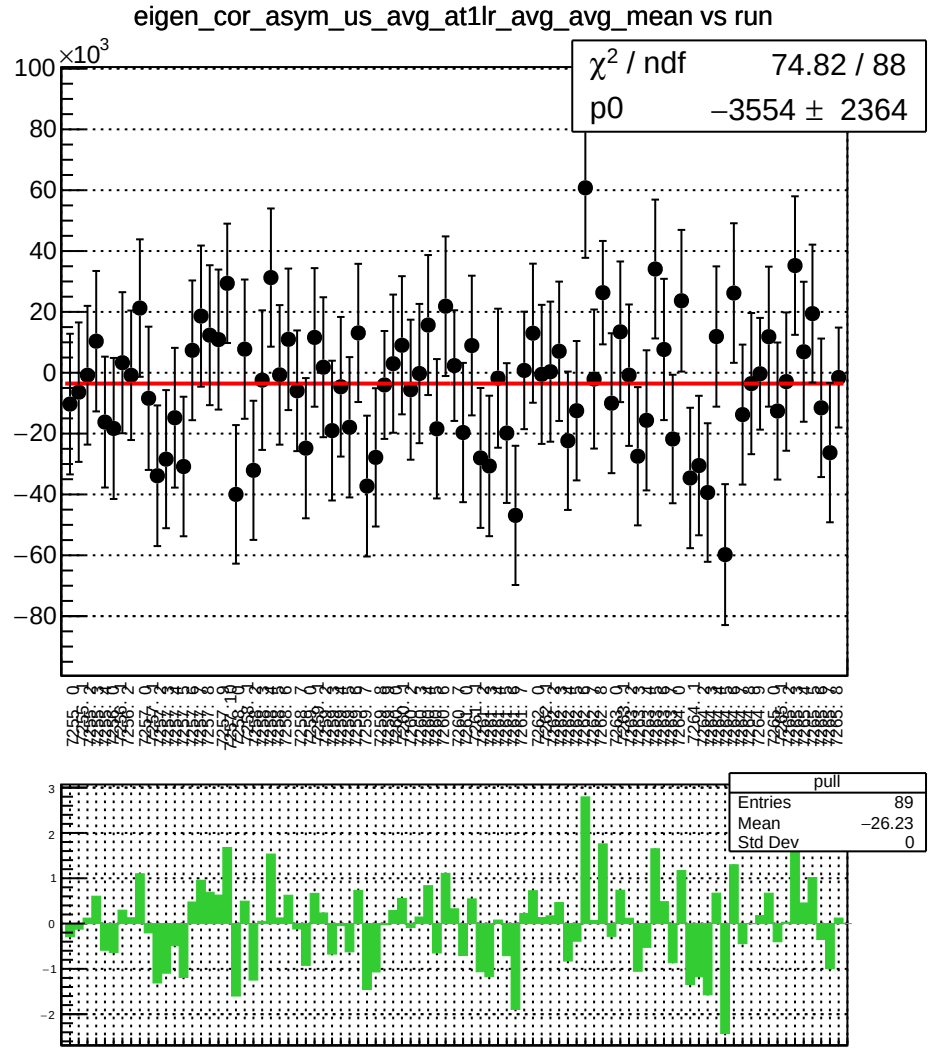

pull1D
Entries 89
Mean −0.01129
Std Dev 0.9168

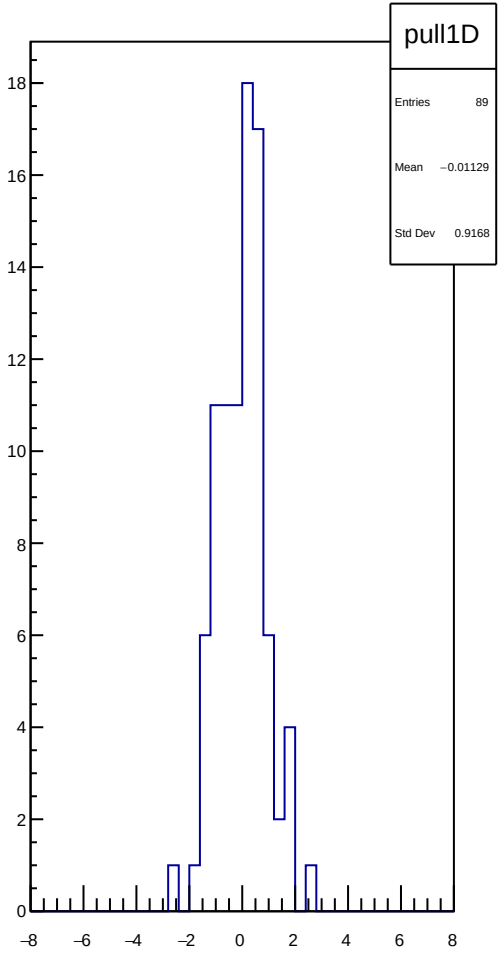

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 97.47 / 88
p0 2176 ± 1.672
2260
2240
2220
2200
2180
2160
2140
2120

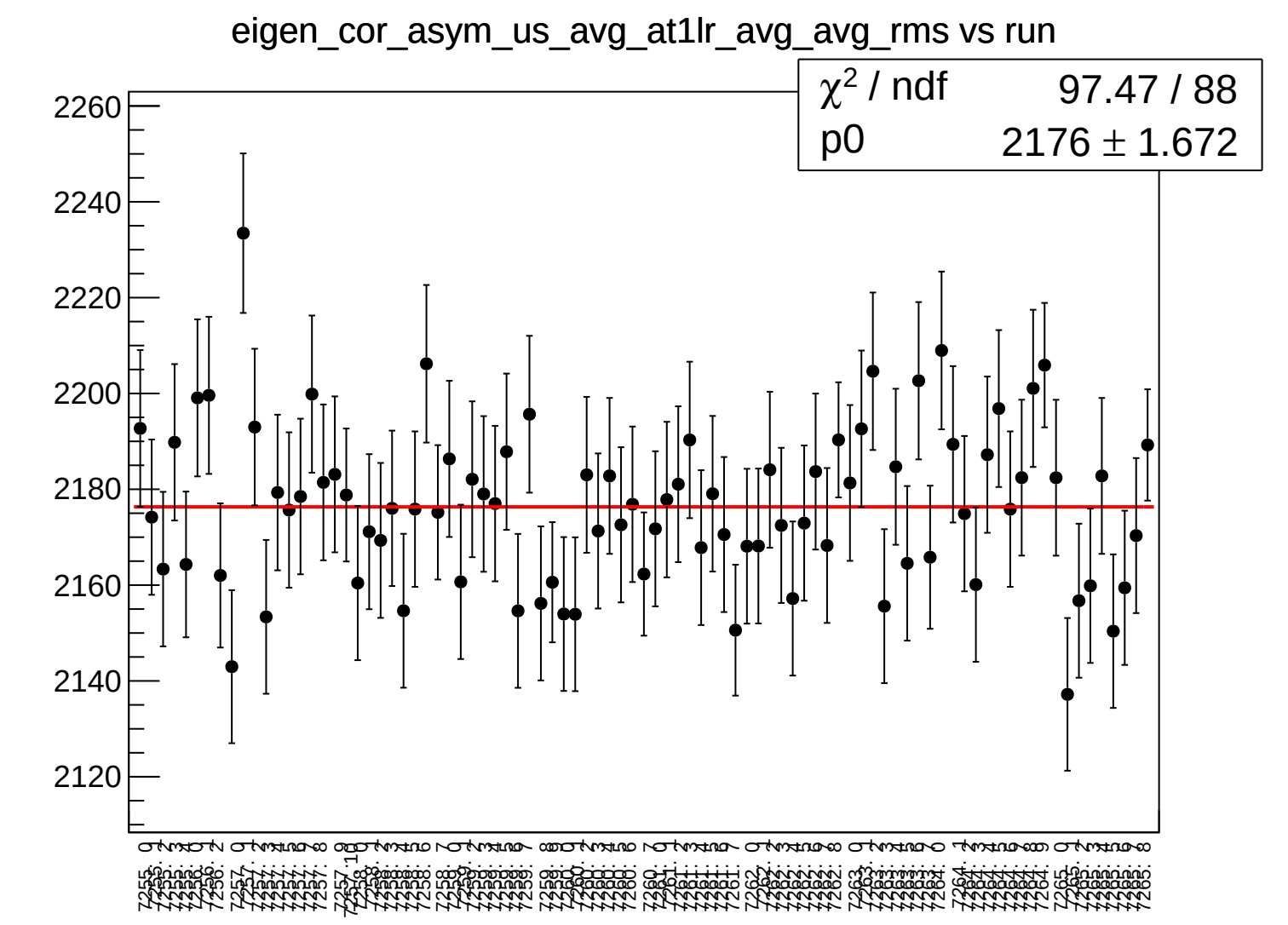

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 85.13 / 88
p0 1310 ± 2139
×10³
pull
Entries 89
Mean 865.2
Std Dev 0

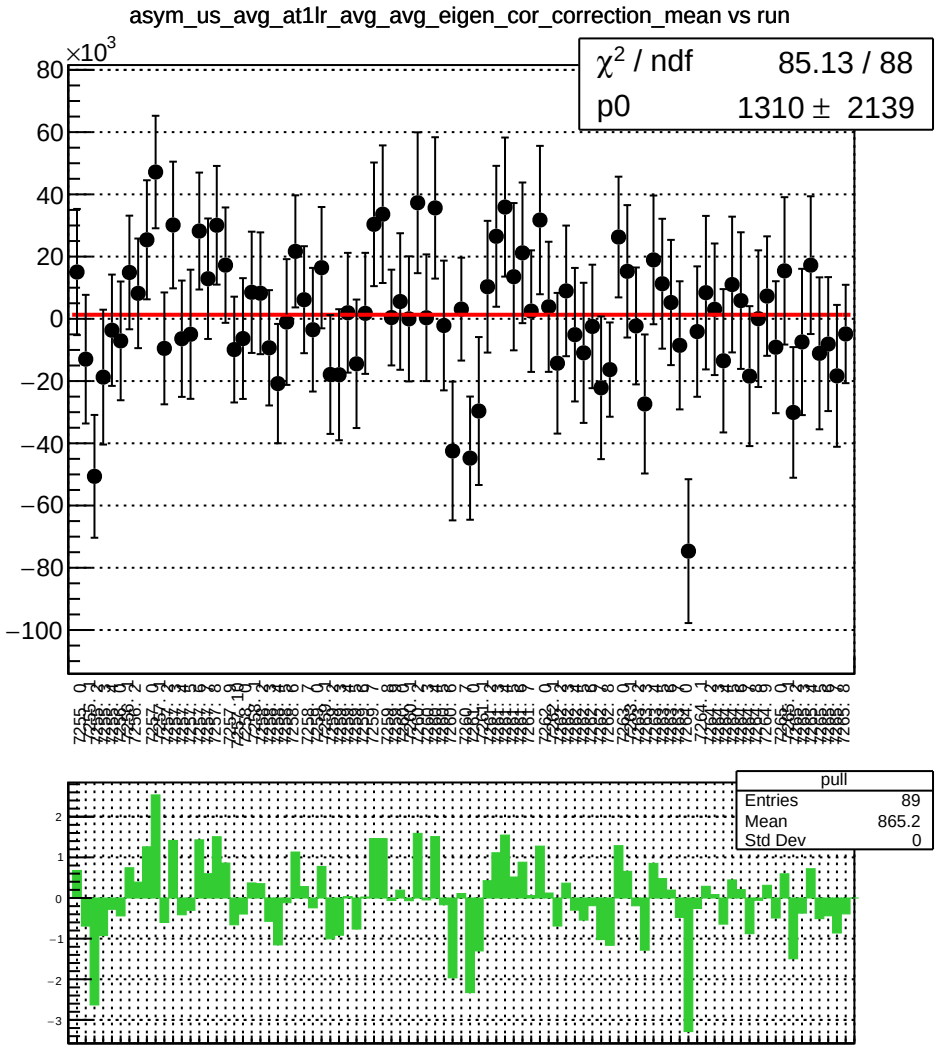

pull1D
Entries 89
Mean −0.004725
Std Dev 0.978

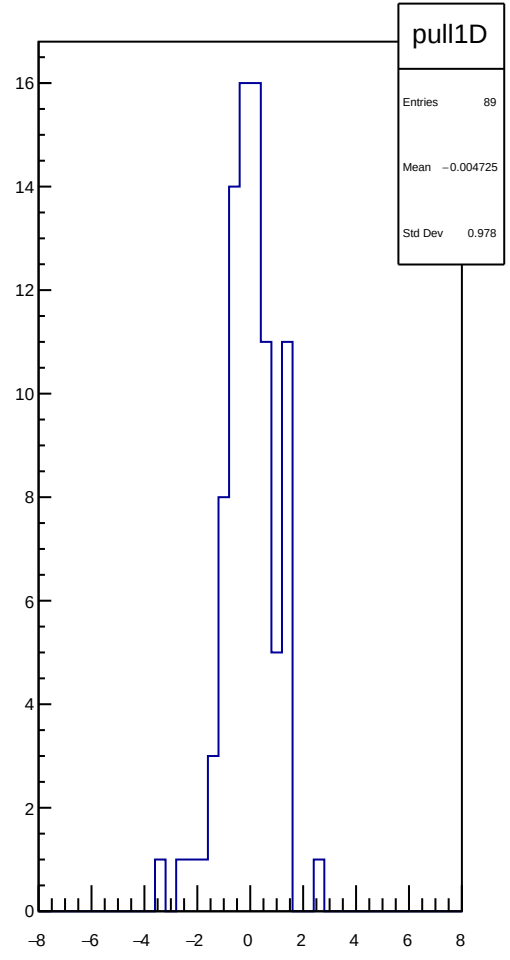

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.044e+04 / 88
p0 1963 ± 1.512
2400
2300
2200
2100
2000
1900
1800
1700

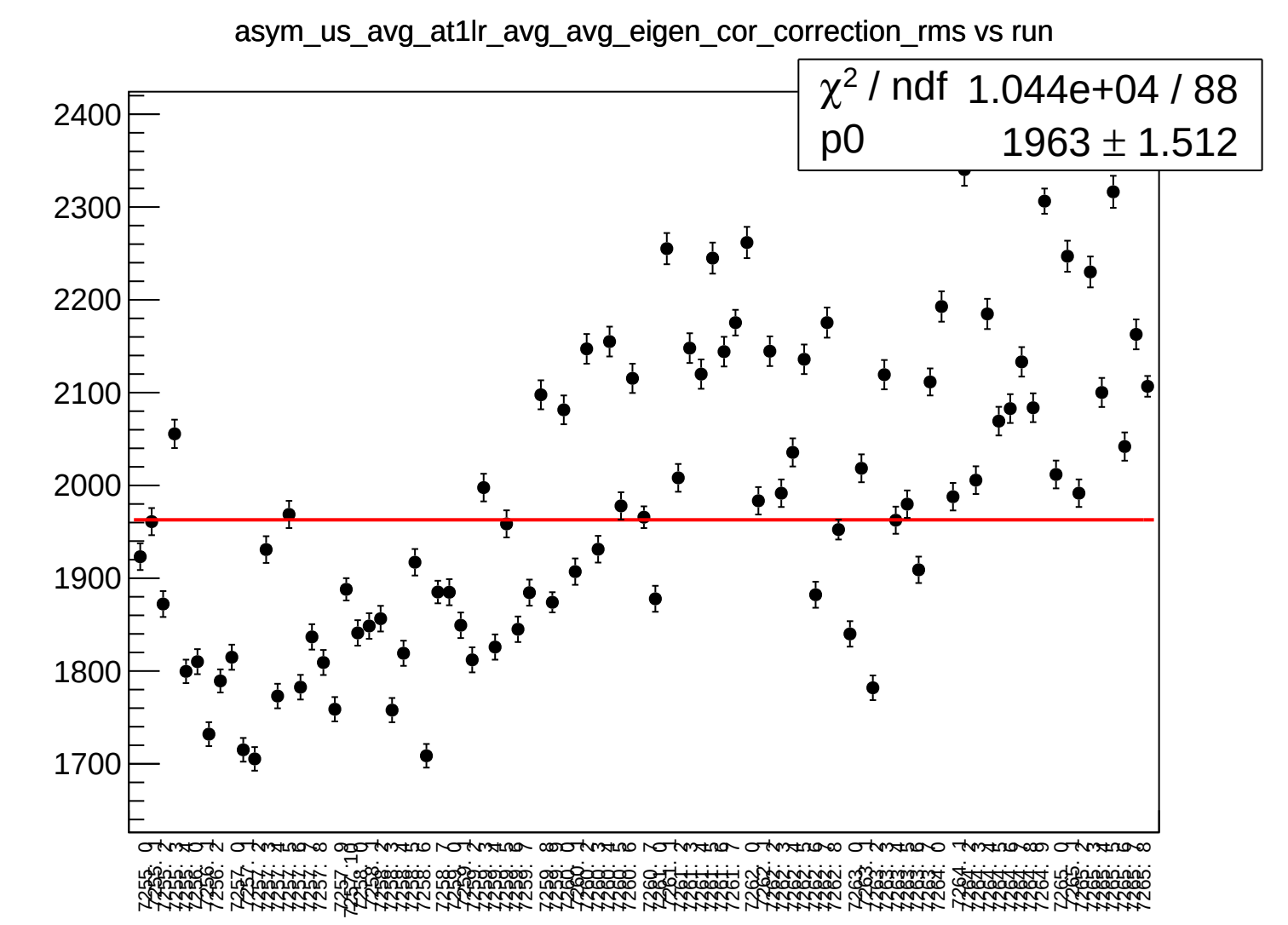

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 74.82 / 88
p0 −3554 ± 2364
pull
Entries 89
Mean −26.23
Std Dev 0

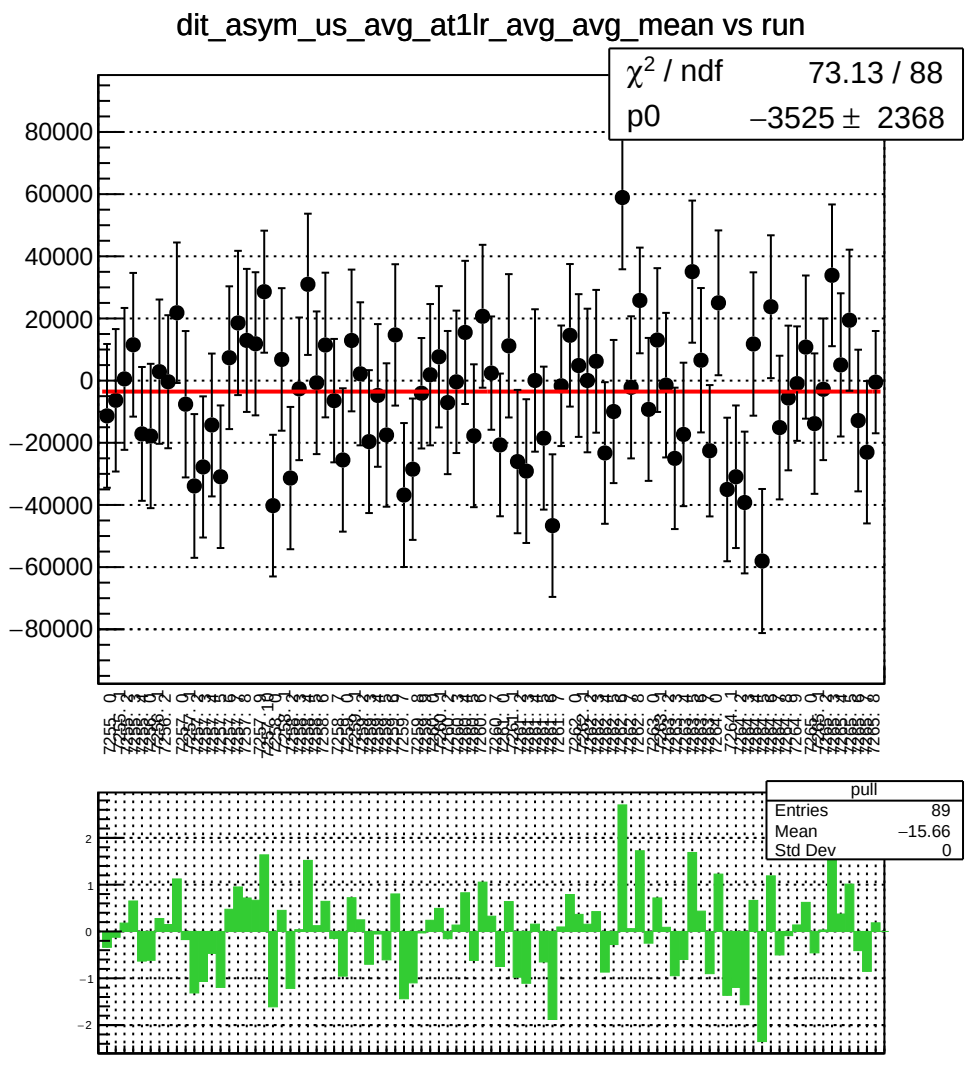

pull1D
Entries 89
Mean −0.01129
Std Dev 0.9168

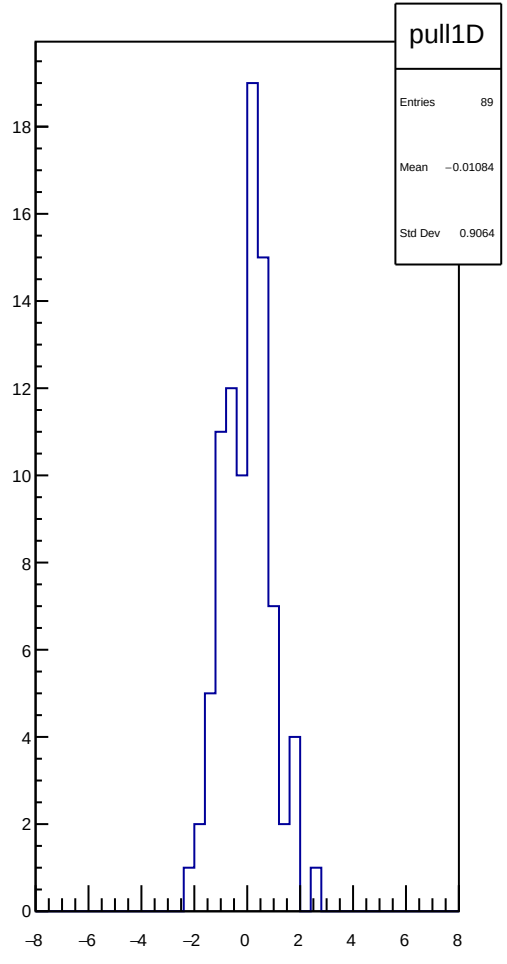

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 97.47 / 88
p0 2176 ± 1.672
2260
2240
2220
2200
2180
2160
2140
2120

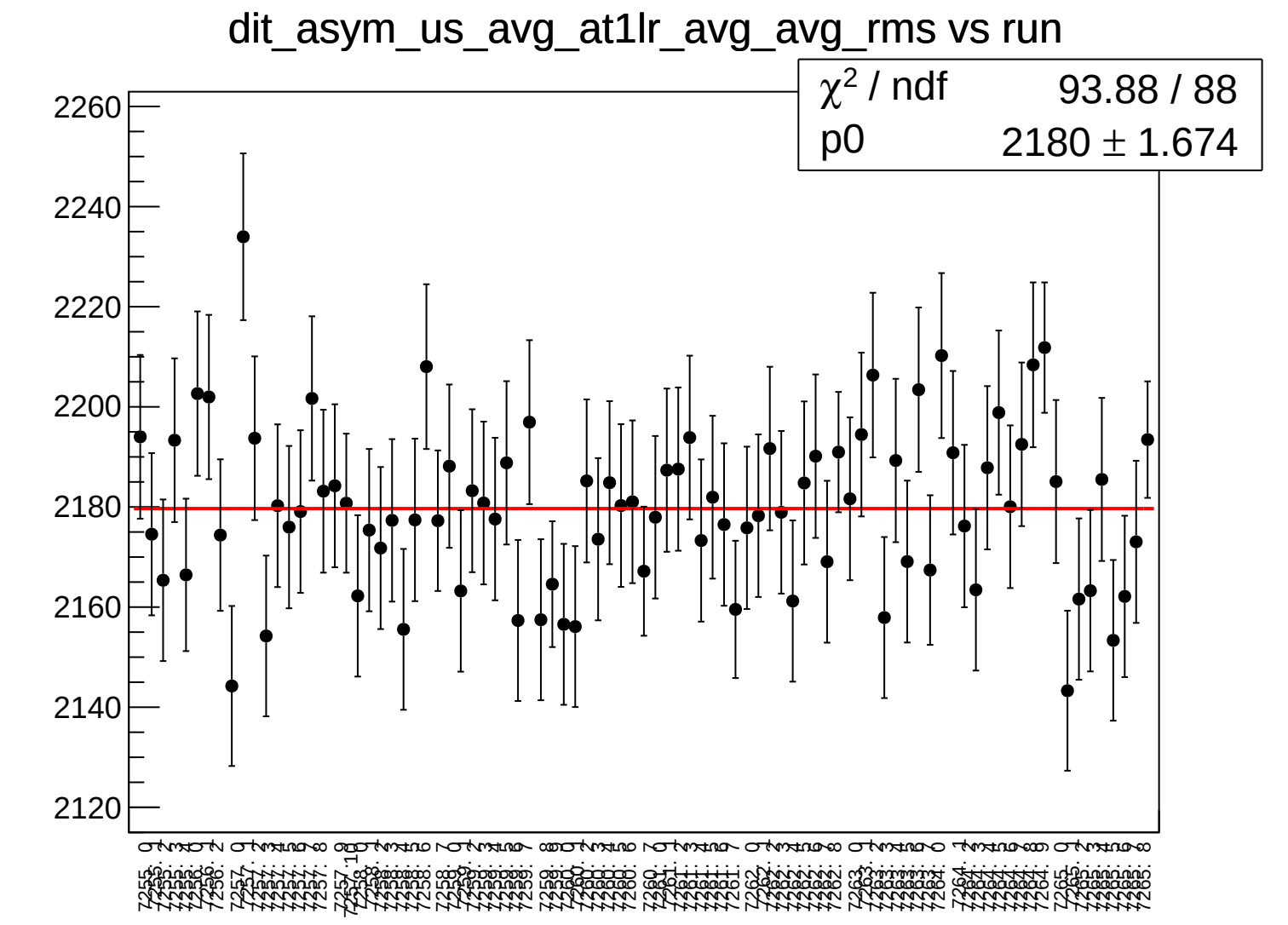

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.13 / 88
p0 1310 ± 2139
×10³
pull
Entries 89
Mean 865.2
Std Dev 0

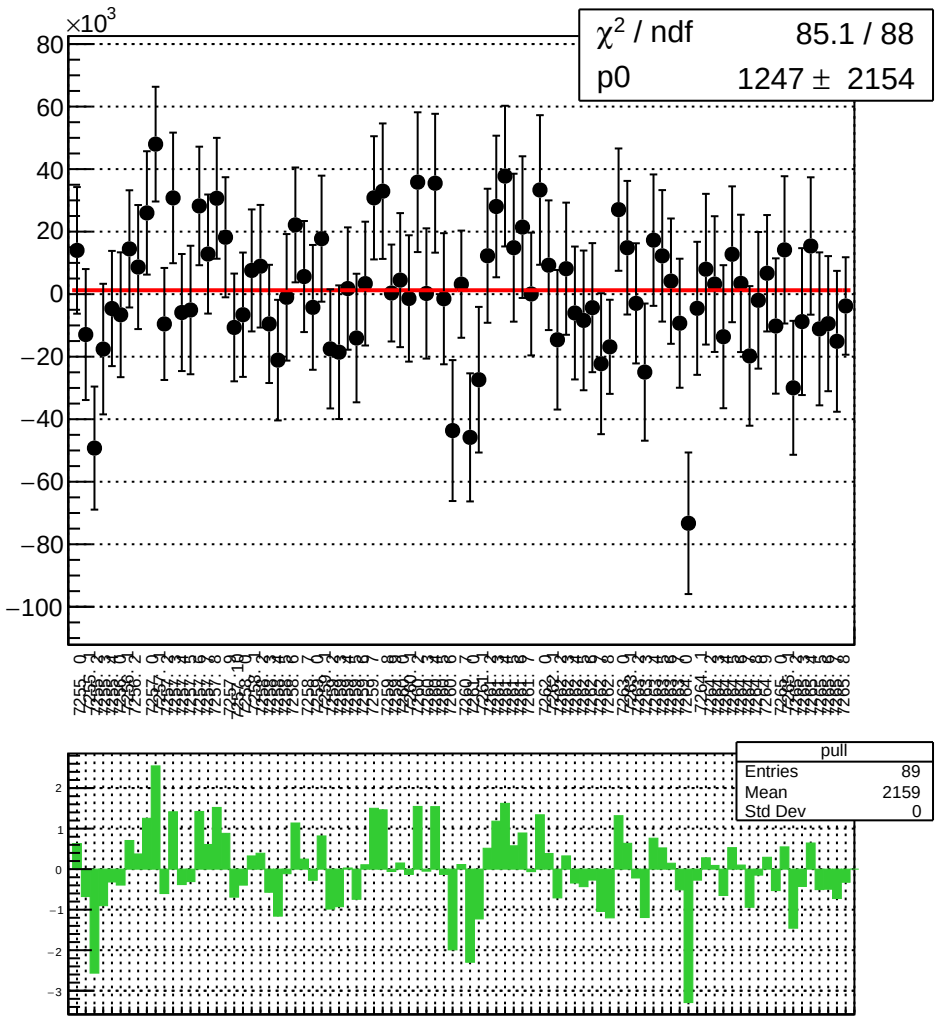

pull1D
Entries 89
Mean −0.004725
Std Dev 0.978

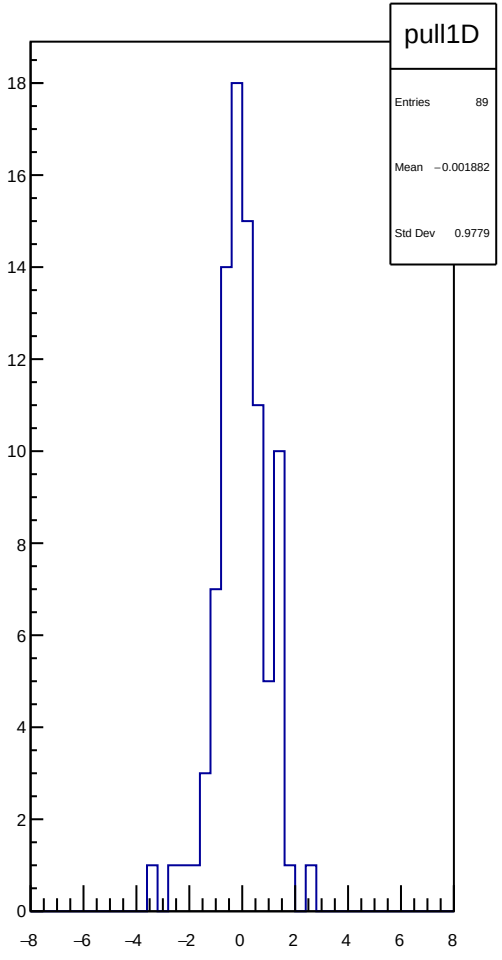

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.044e+04 / 88
p0 1963 ± 1.512
2400
2300
2200
2100
2000
1900
1800
1700

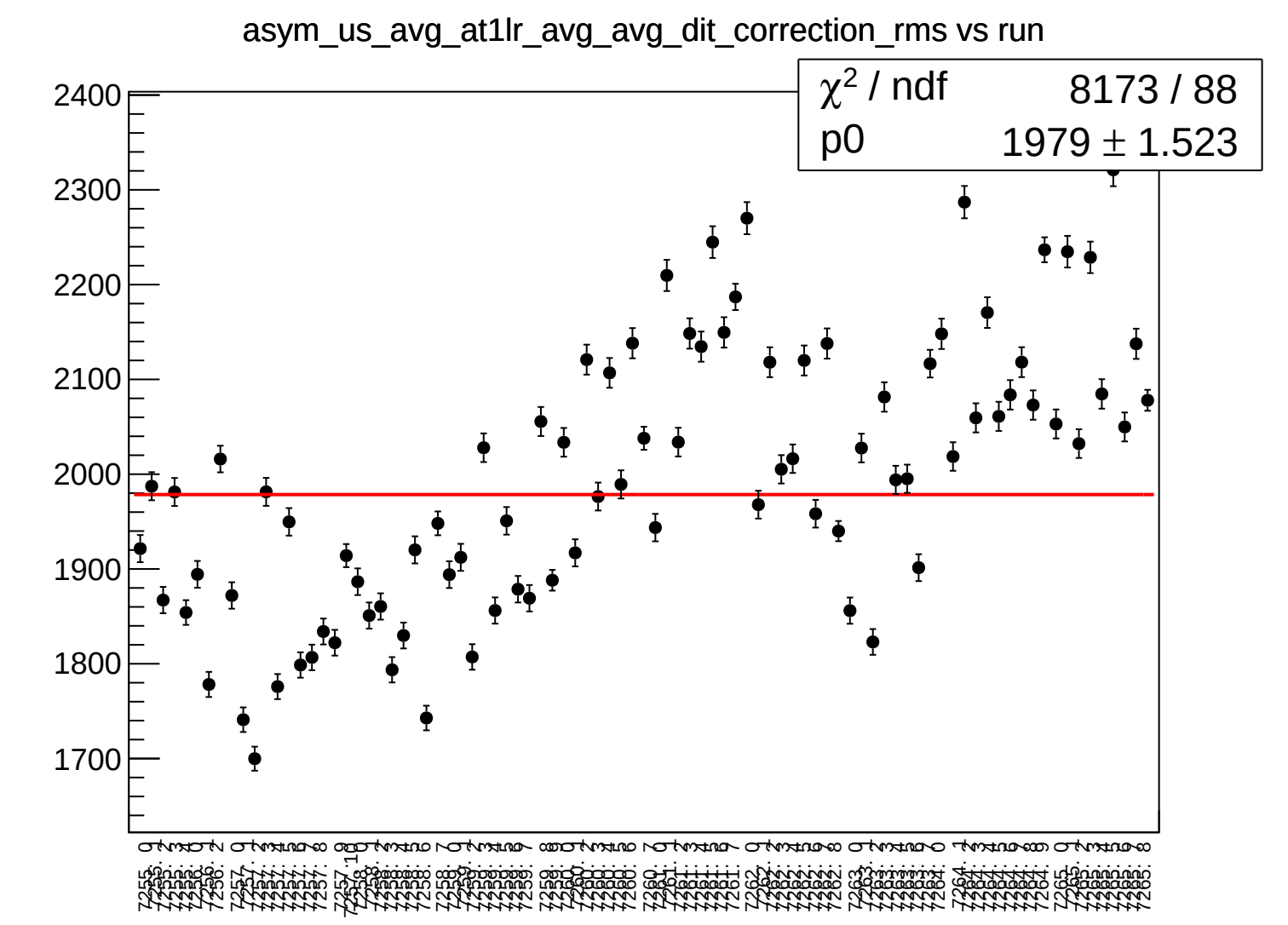

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 73.13 / 88
p0 −3525 ± 2368
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −15.66
Std Dev 0
2
1
0
−1
−2

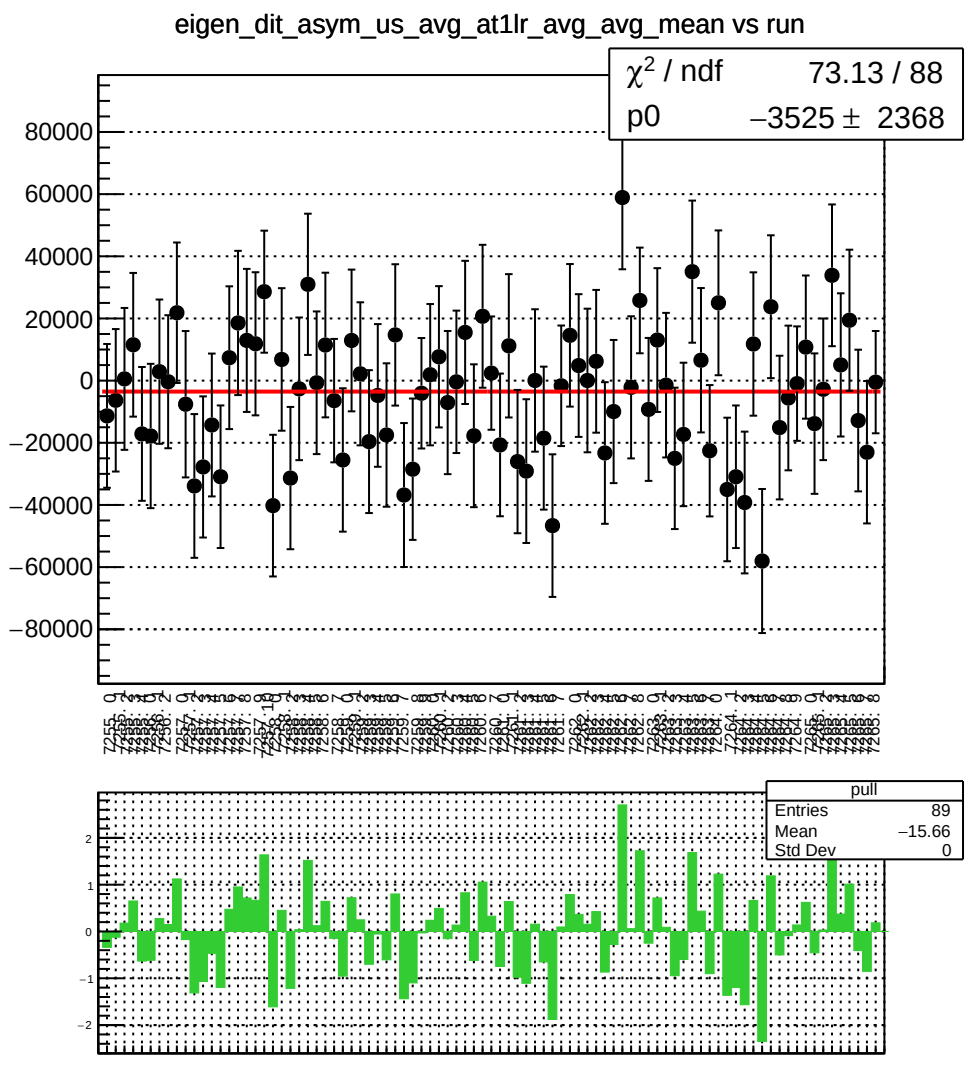

pull1D
Entries 89
Mean −0.01084
Std Dev 0.9064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

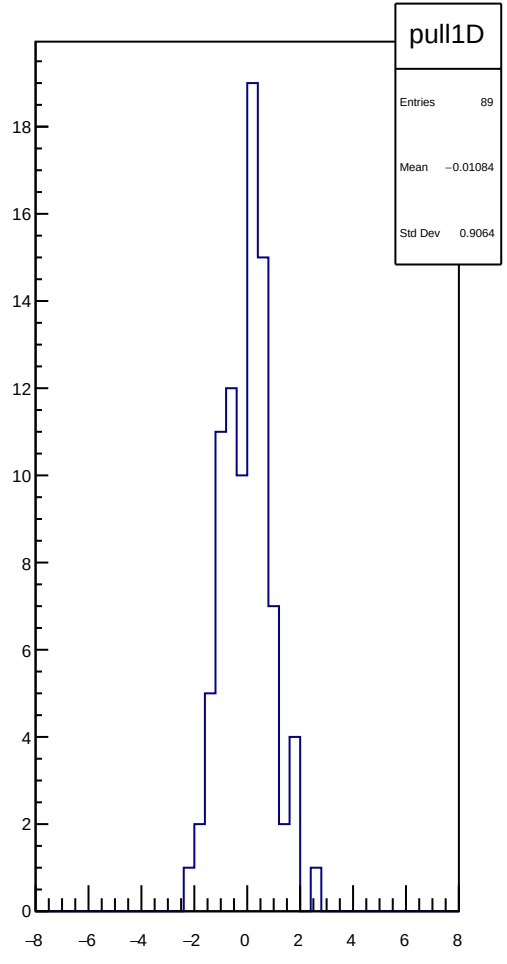

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 93.88 / 88
p0 2180 ± 1.674
2260
2240
2220
2200
2180
2160
2140
2120

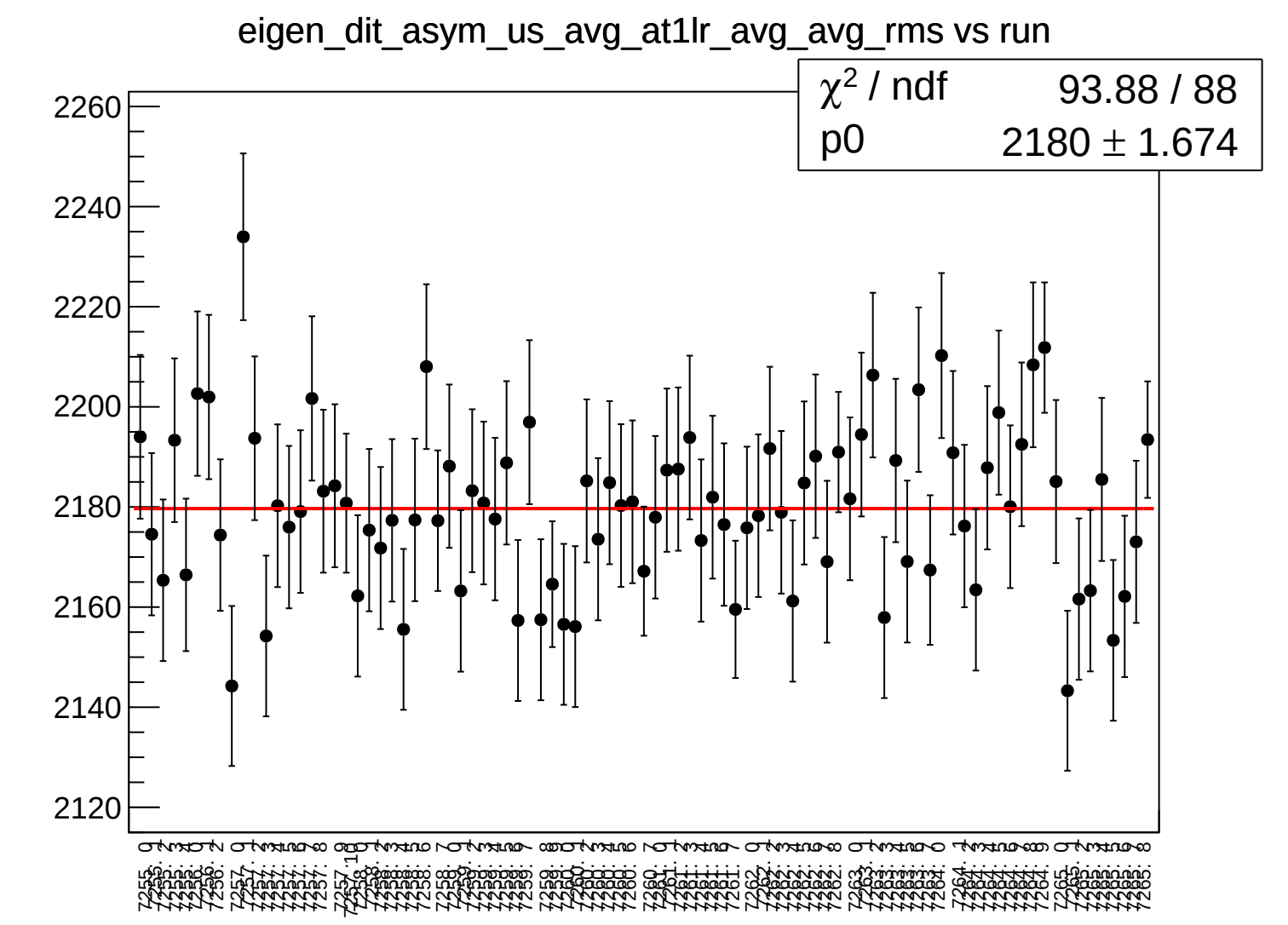

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 85.1 / 88
p0 1247 ± 2154
pull
Entries 89
Mean 2159
Std Dev 0

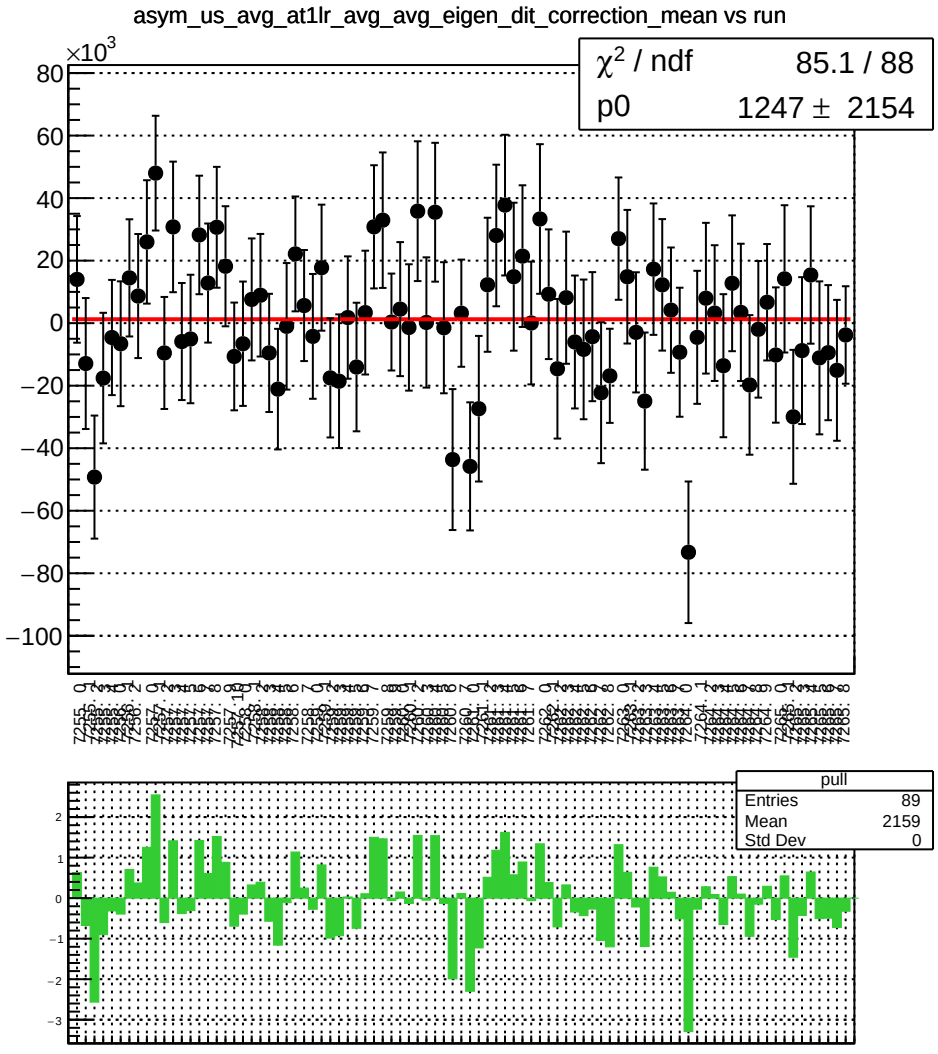

pull1D
Entries 89
Mean −0.001882
Std Dev 0.9779

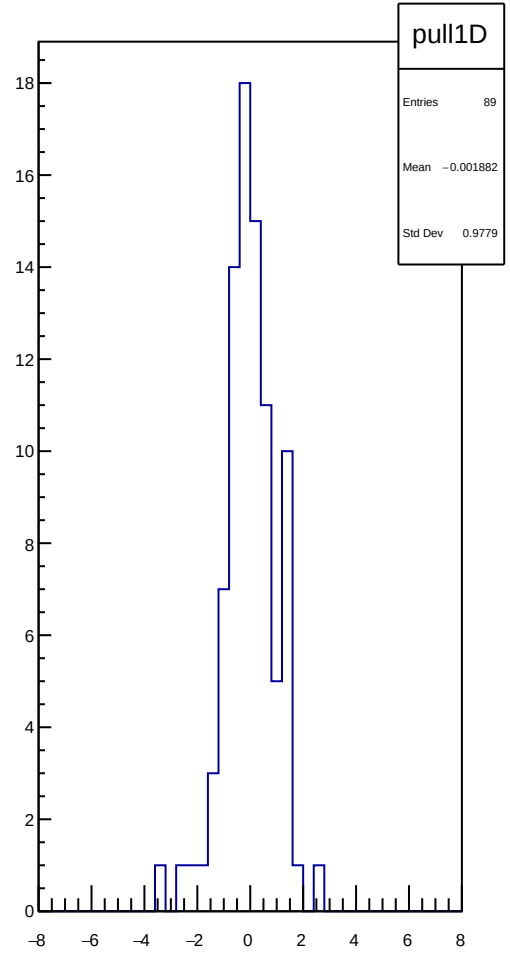

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 8173 / 88
p0 1979 ± 1.523
2400
2300
2200
2100
2000
1900
1800
1700

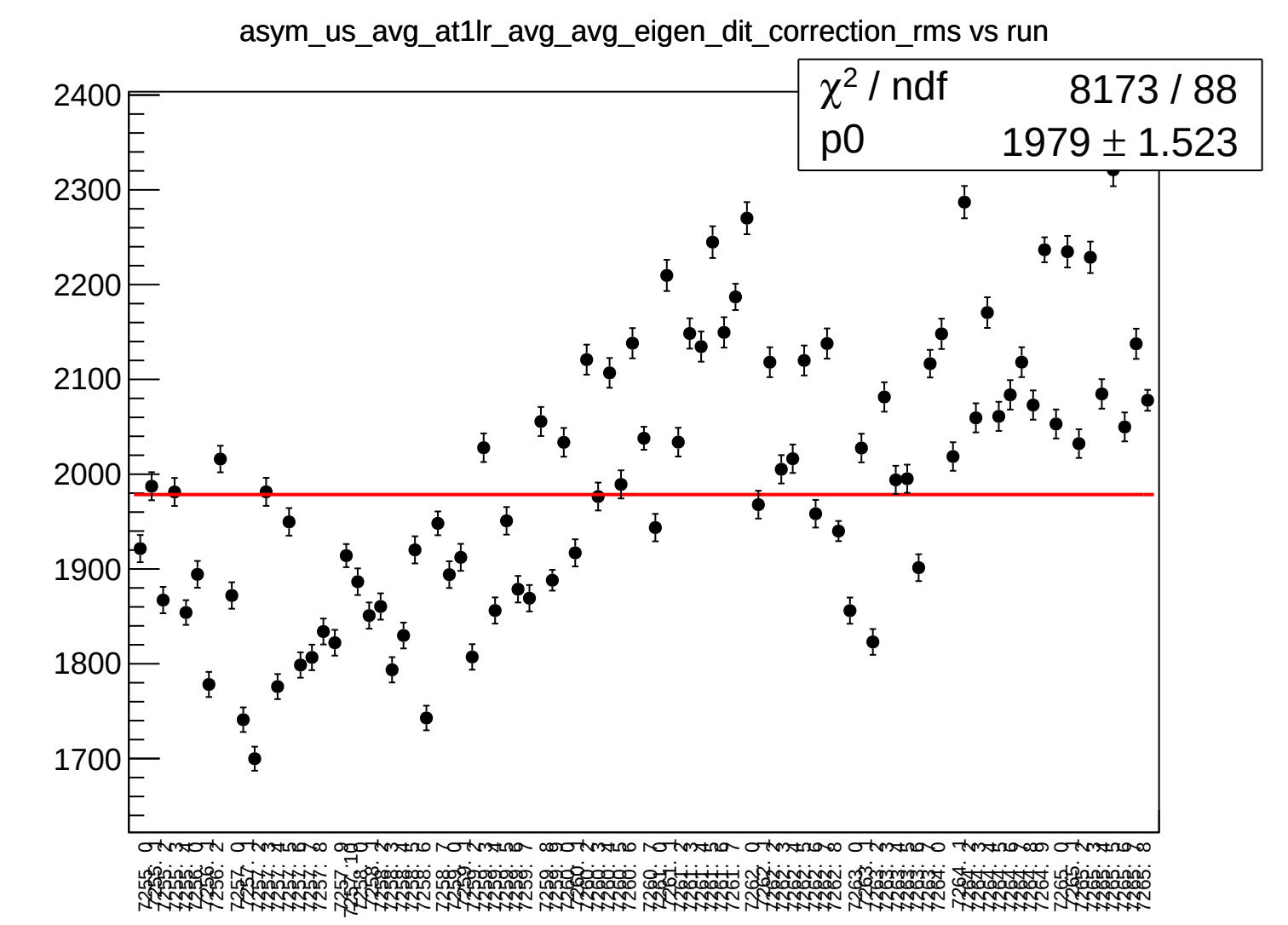

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 73.13 / 88
p0 −3525 ± 2368
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −15.66
Std Dev 0
2
1
0
−1
−2

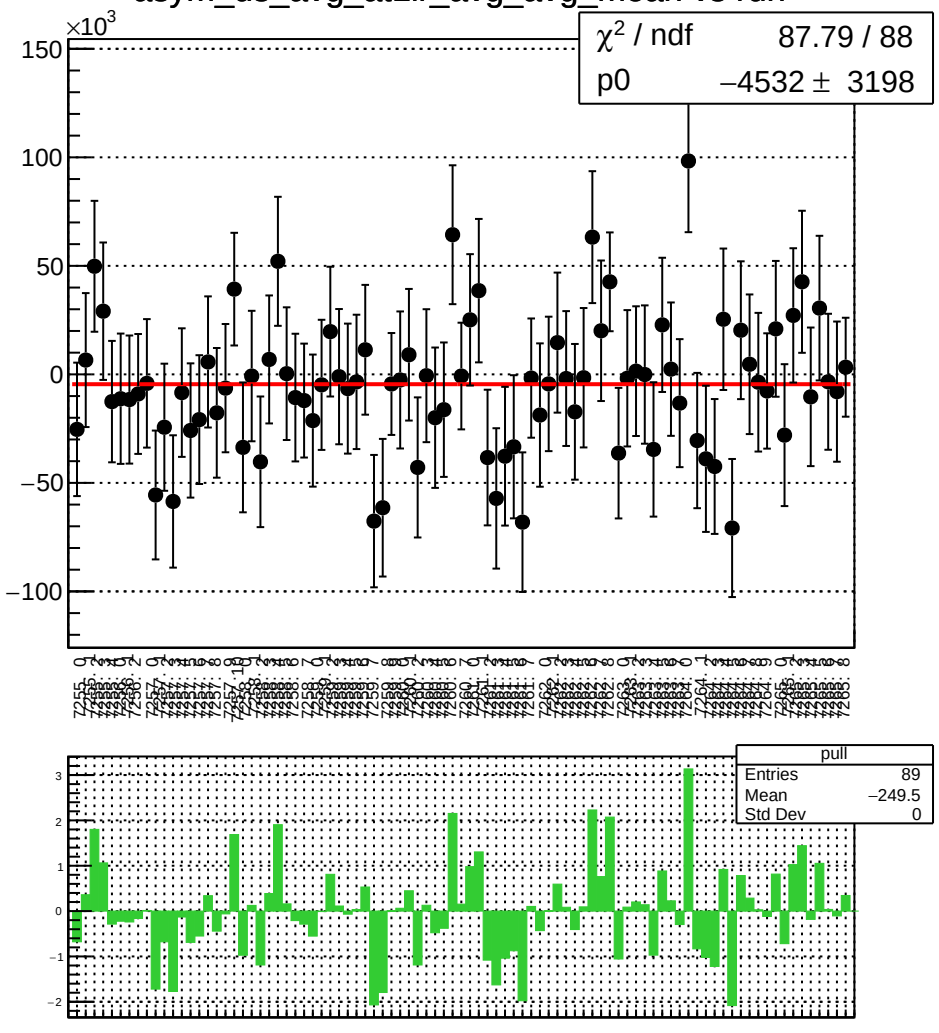

pull1D
Entries 89
Mean −0.01084
Std Dev 0.9064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

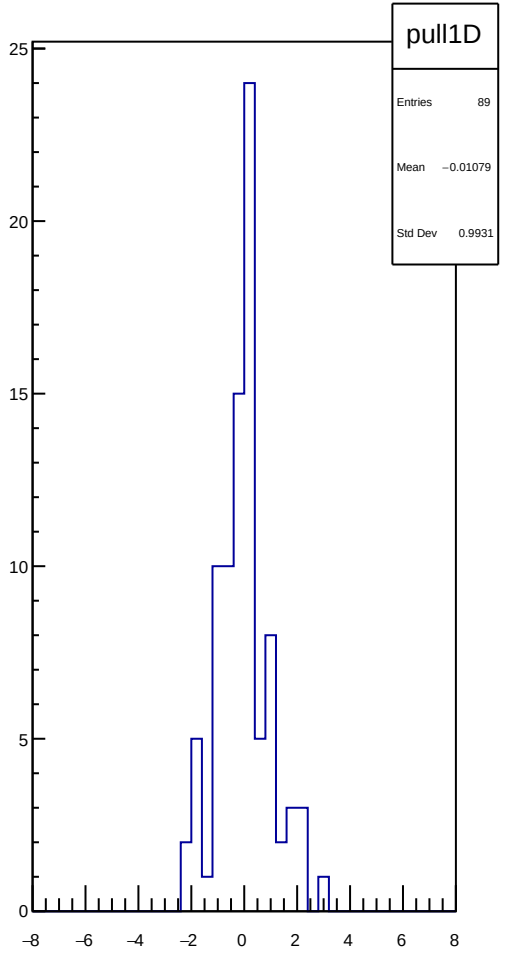

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 93.88 / 88
p0 2180 ± 1.674
2260
2240
2220
2200
2180
2160
2140
2120

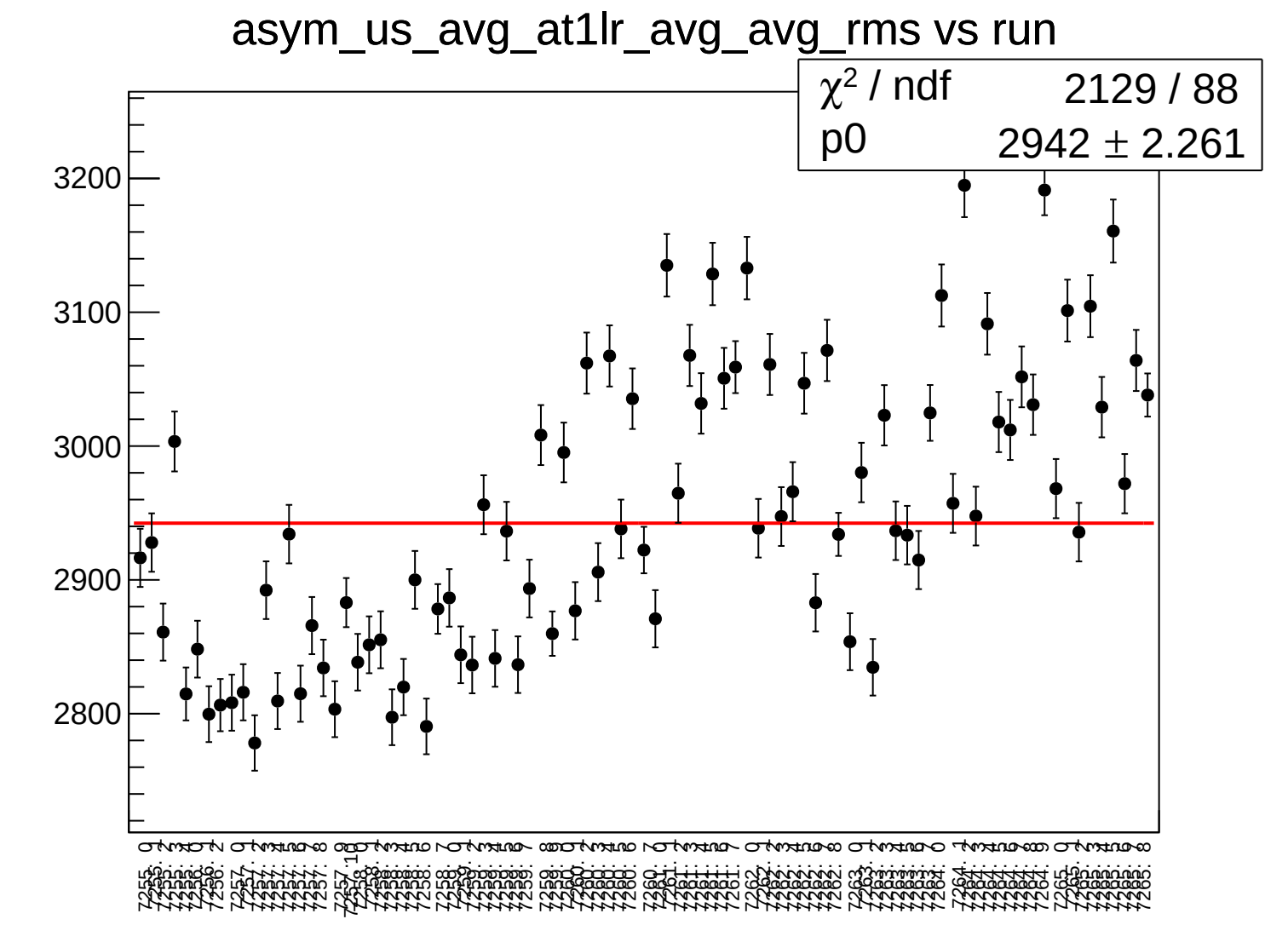

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.1 / 88
p0 1247 ± 2154
pull
Entries 89
Mean 2159
Std Dev 0

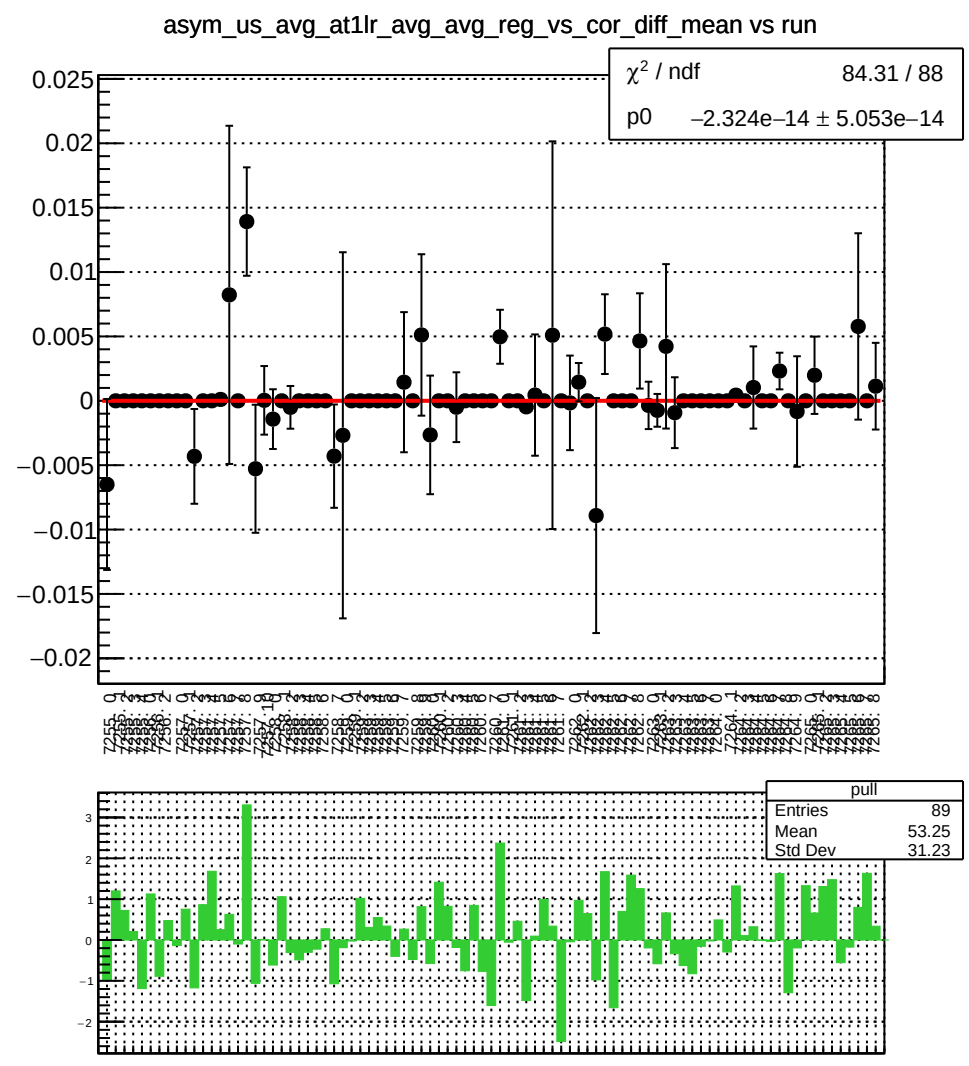

pull1D
Entries 89
Mean −0.001882
Std Dev 0.9779

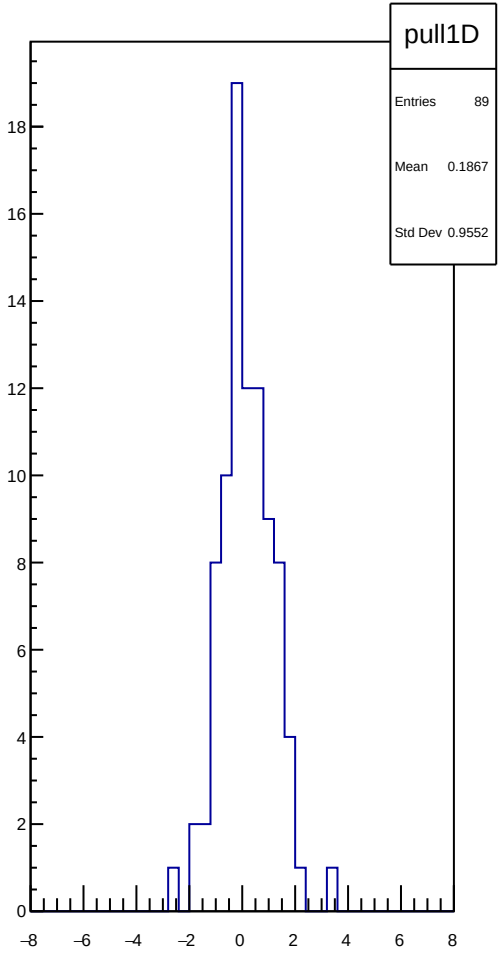

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 8173 / 88
p0 1979 ± 1.523
2400
2300
2200
2100
2000
1900
1800
1700

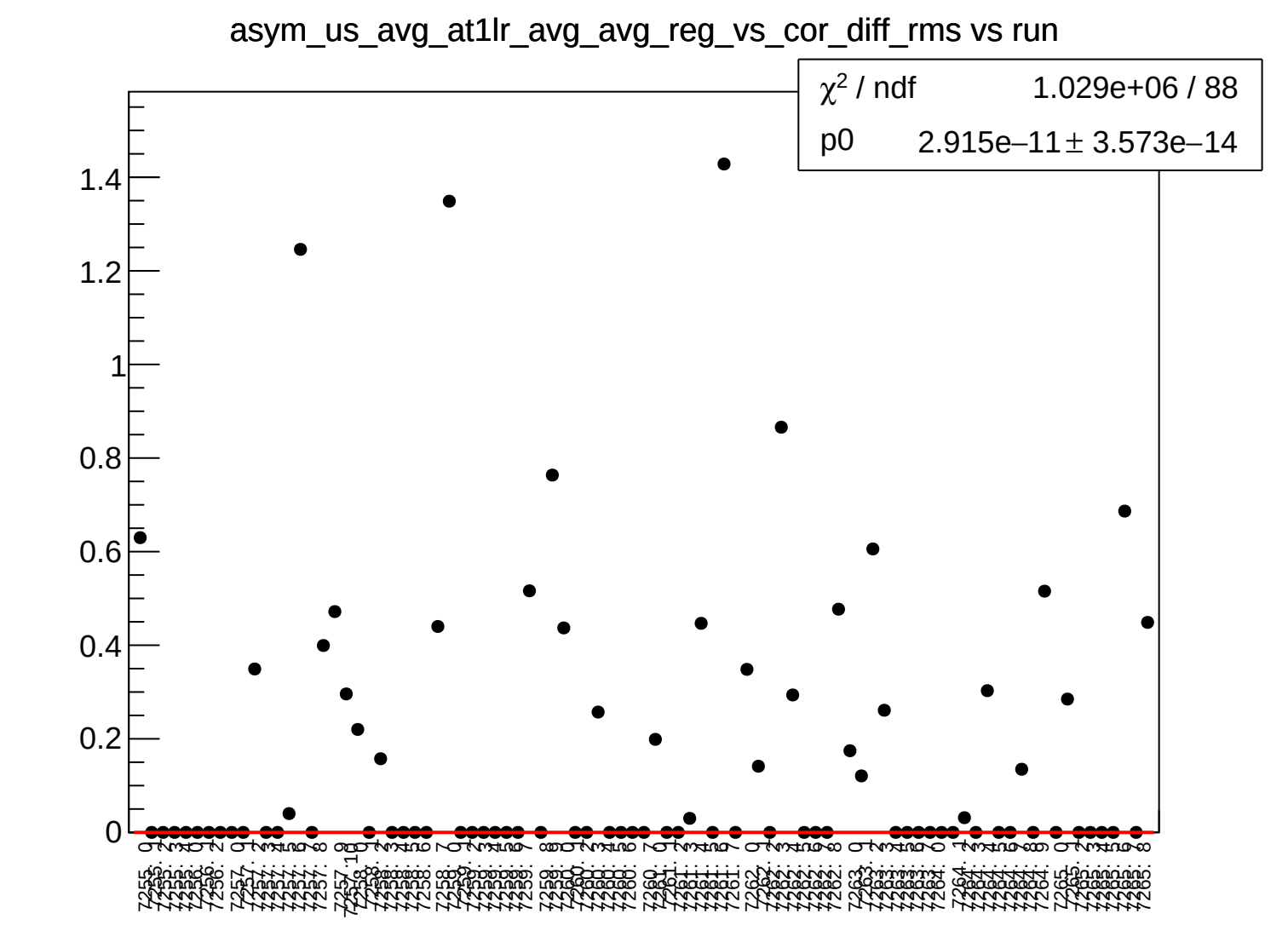

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 87.79 / 88
p0 −4532 ± 3198
150
100
50
0
−50
−100
pull
Entries 89
Mean −249.5
Std Dev 0
3
2
1
0
−1
−2

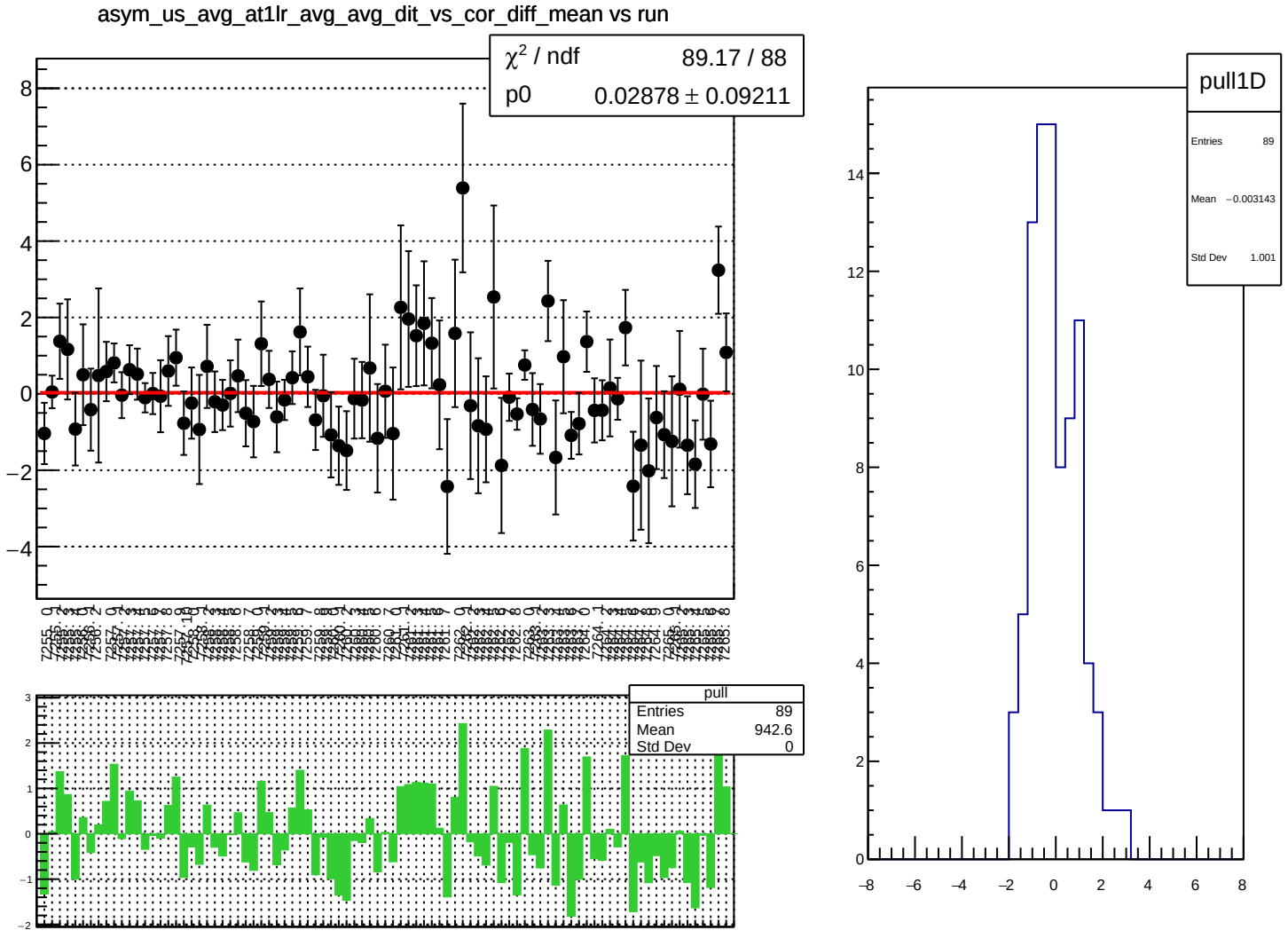

pull1D
Entries 89
Mean −0.01079
Std Dev 0.9931
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

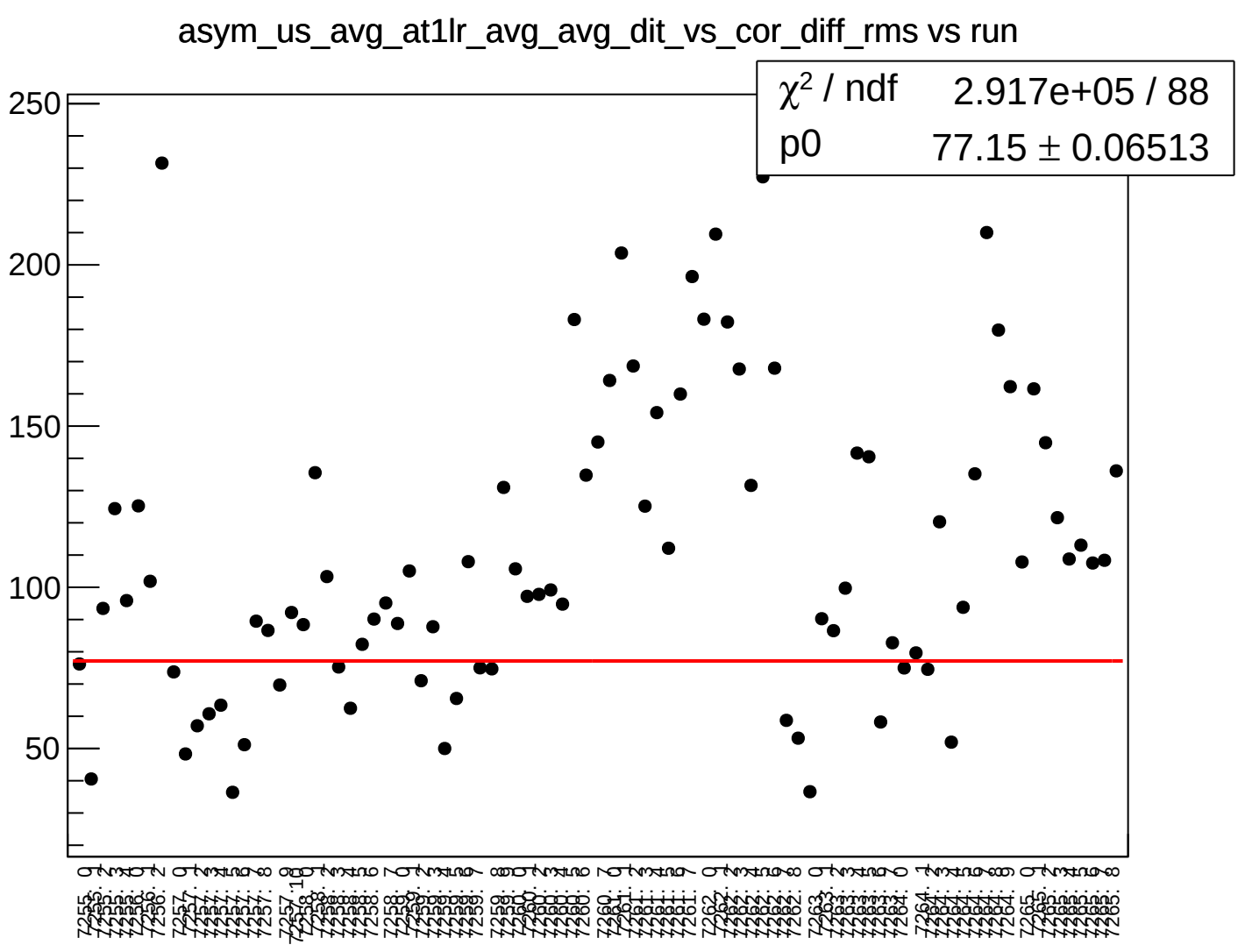

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2129 / 88
p0 2942 ± 2.261
3200
3100
3000
2900
2800

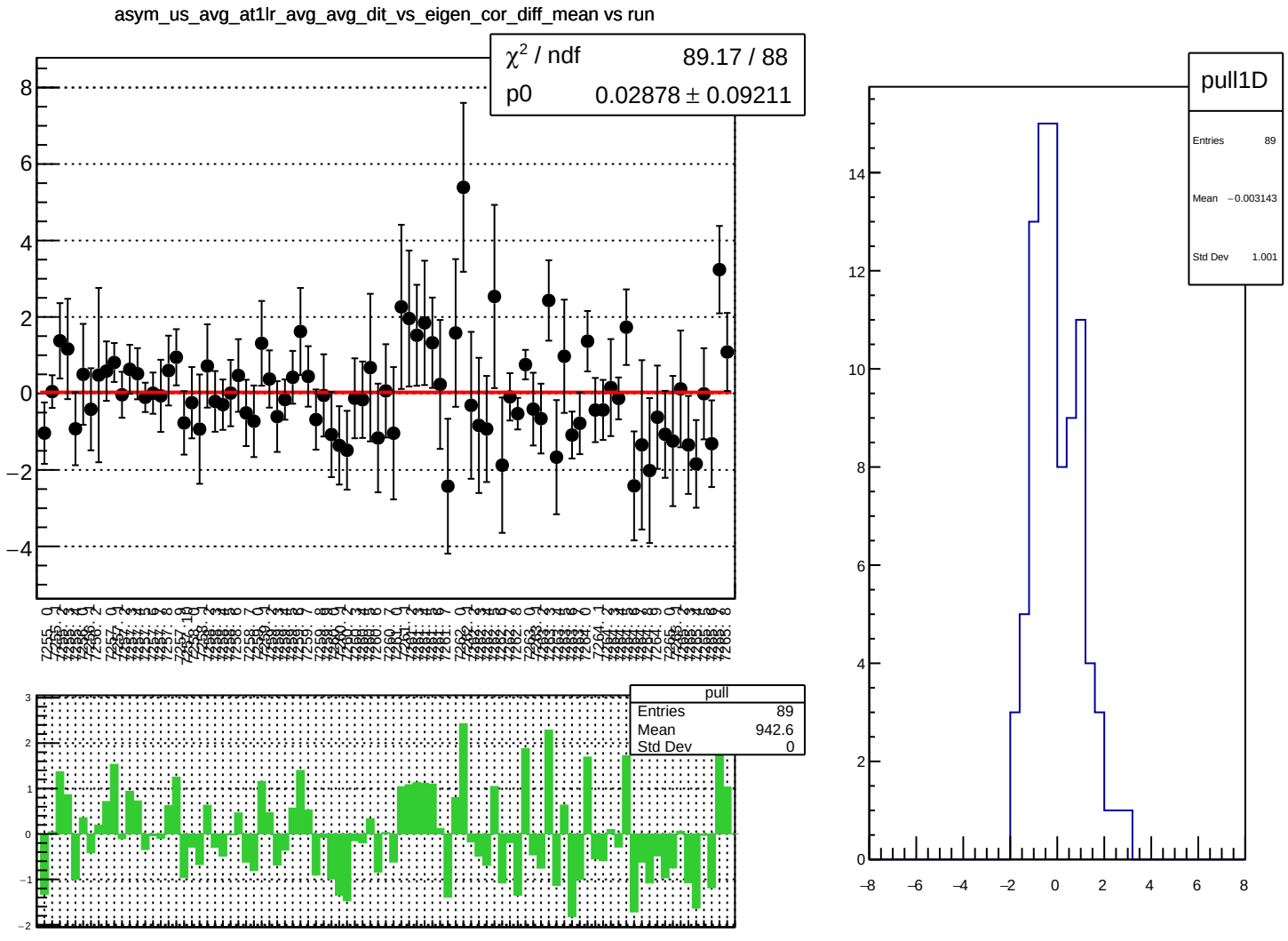

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.31 / 88
p0 −2.324e−14 ± 5.053e−14
pull
Entries 89
Mean 53.25
Std Dev 31.23

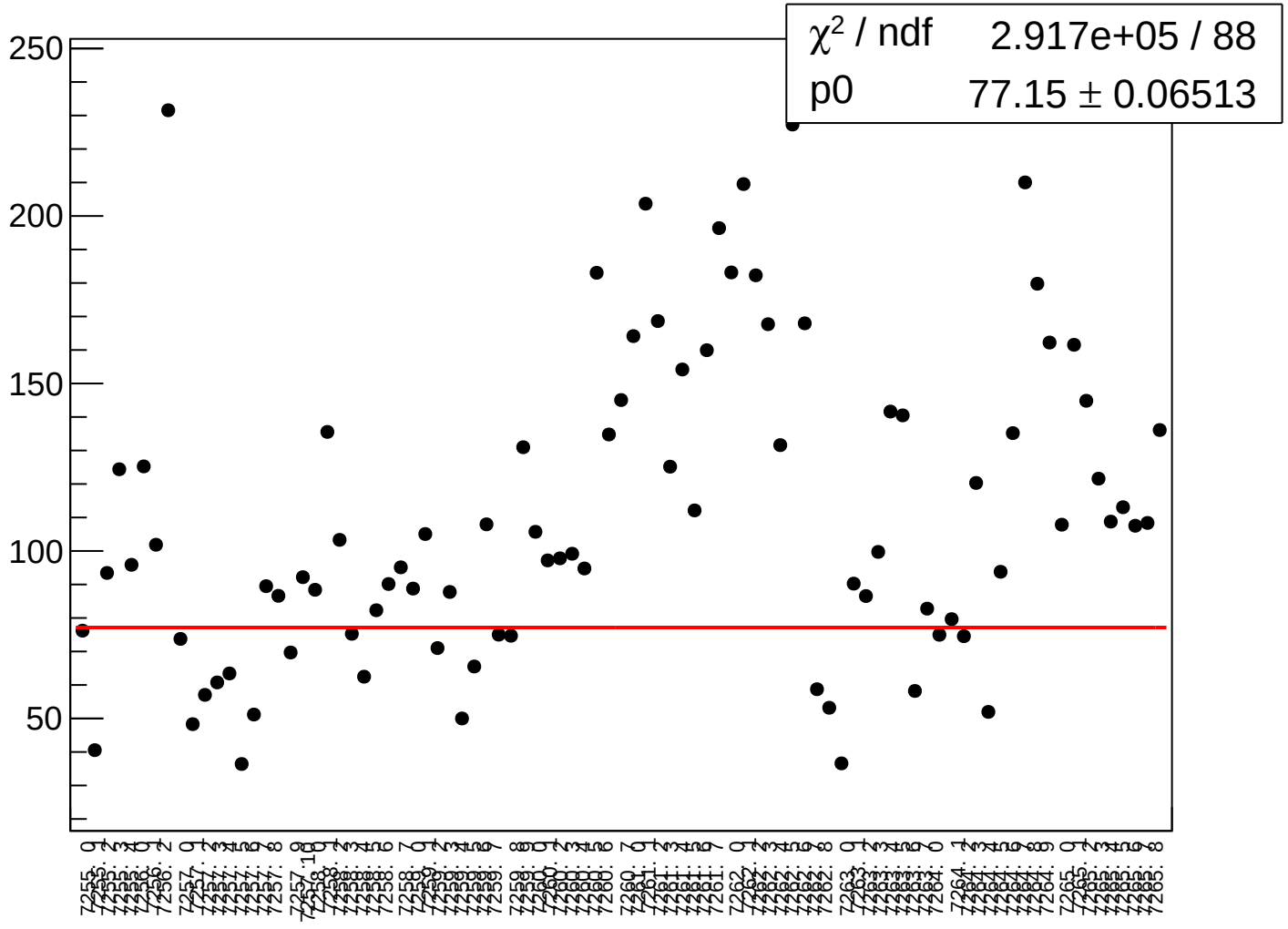

pull1D
Entries 89
Mean 0.1867
Std Dev 0.9552

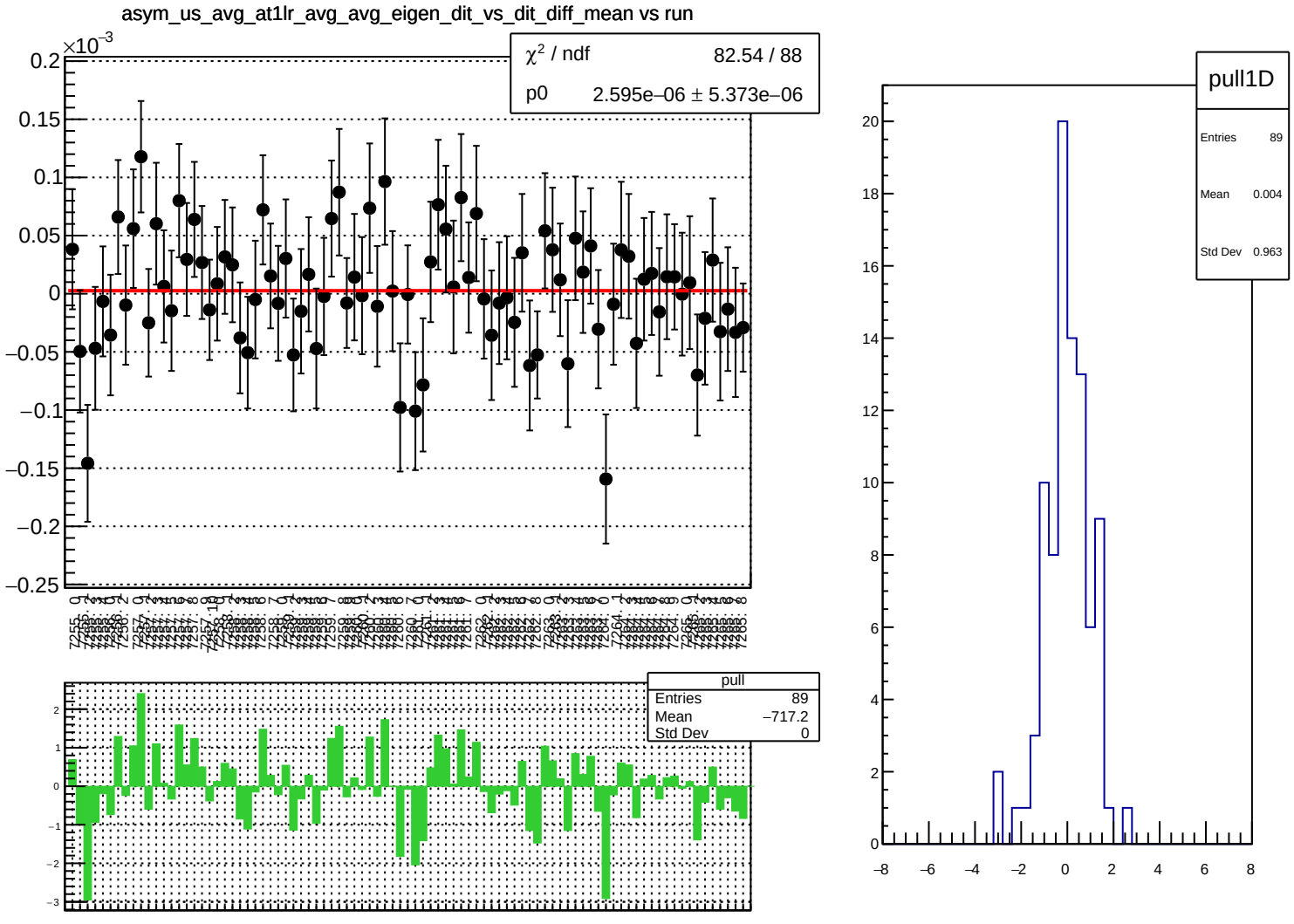

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.029e+06 / 88
p0 2.915e−11 ± 3.573e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

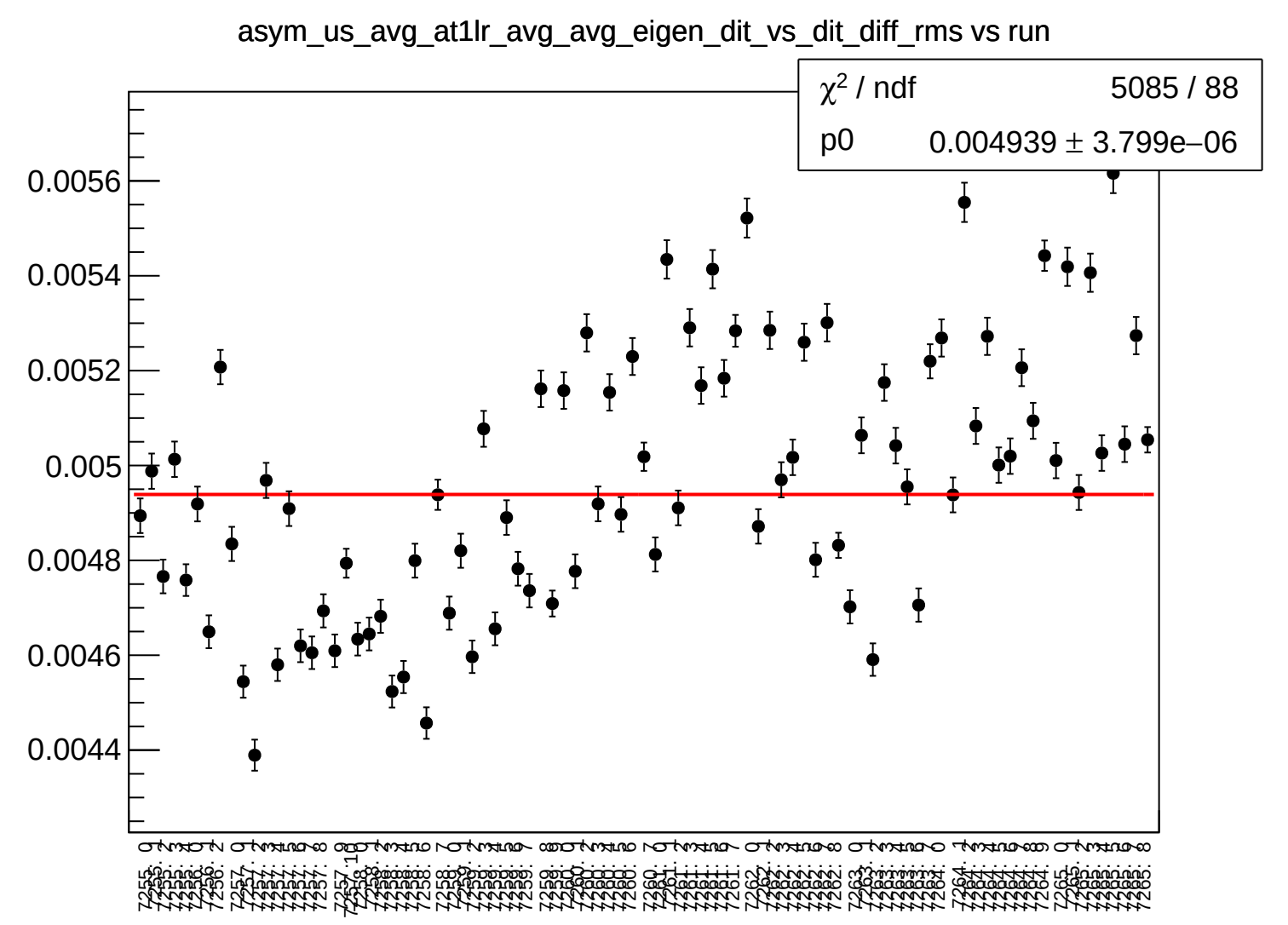

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.17 / 88
p0 0.02878 ± 0.09211
pull
Entries 89
Mean 942.6
Std Dev 0
pull1D
Entries 89
Mean −0.003143
Std Dev 1.001

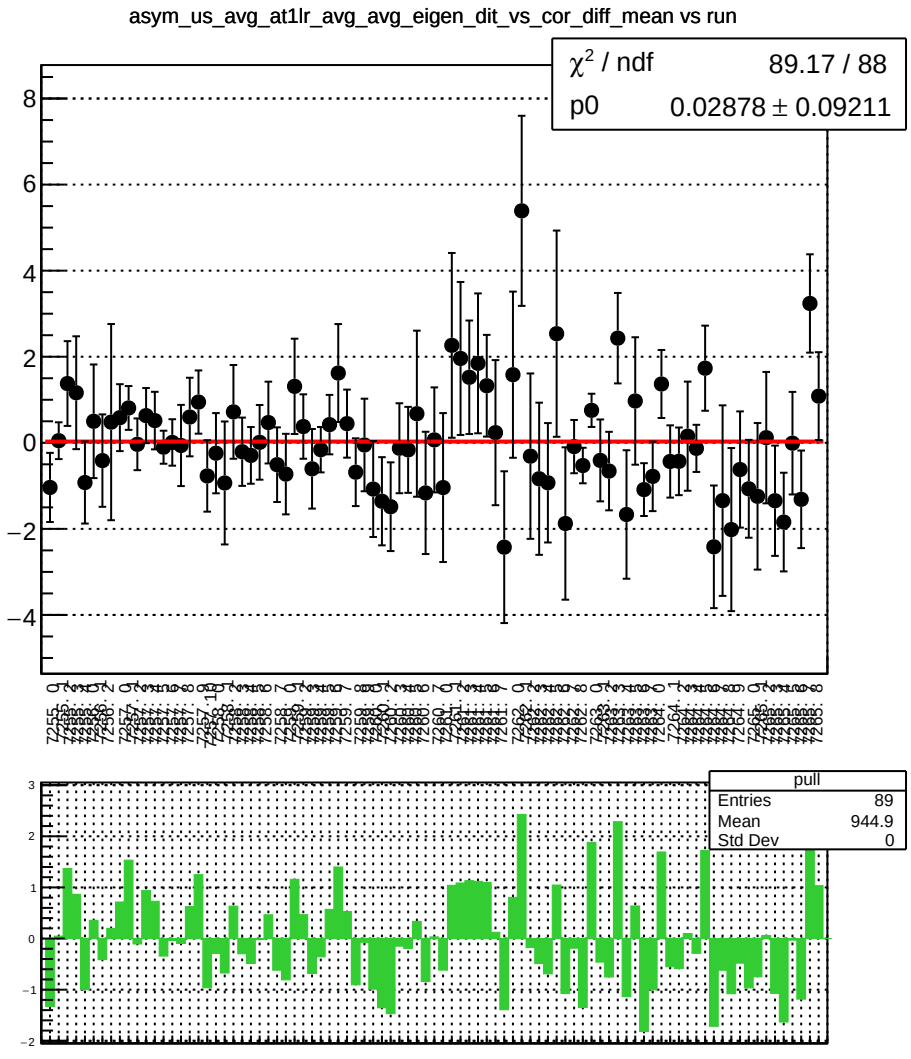

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.917e+05 / 88
p0 77.15 ± 0.06513
250
200
150
100
50

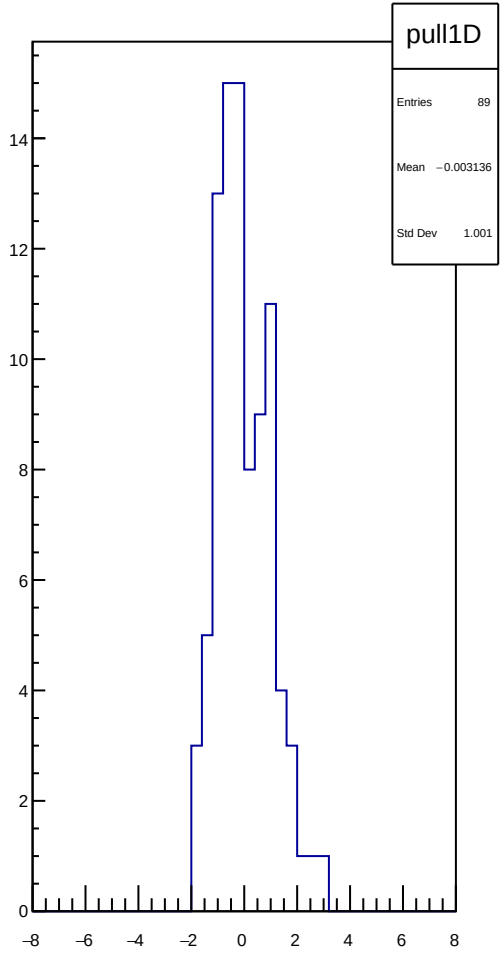

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.17 / 88
p0 0.02878 ± 0.09211
pull
Entries 89
Mean 942.6
Std Dev 0
pull1D
Entries 89
Mean −0.003143
Std Dev 1.001

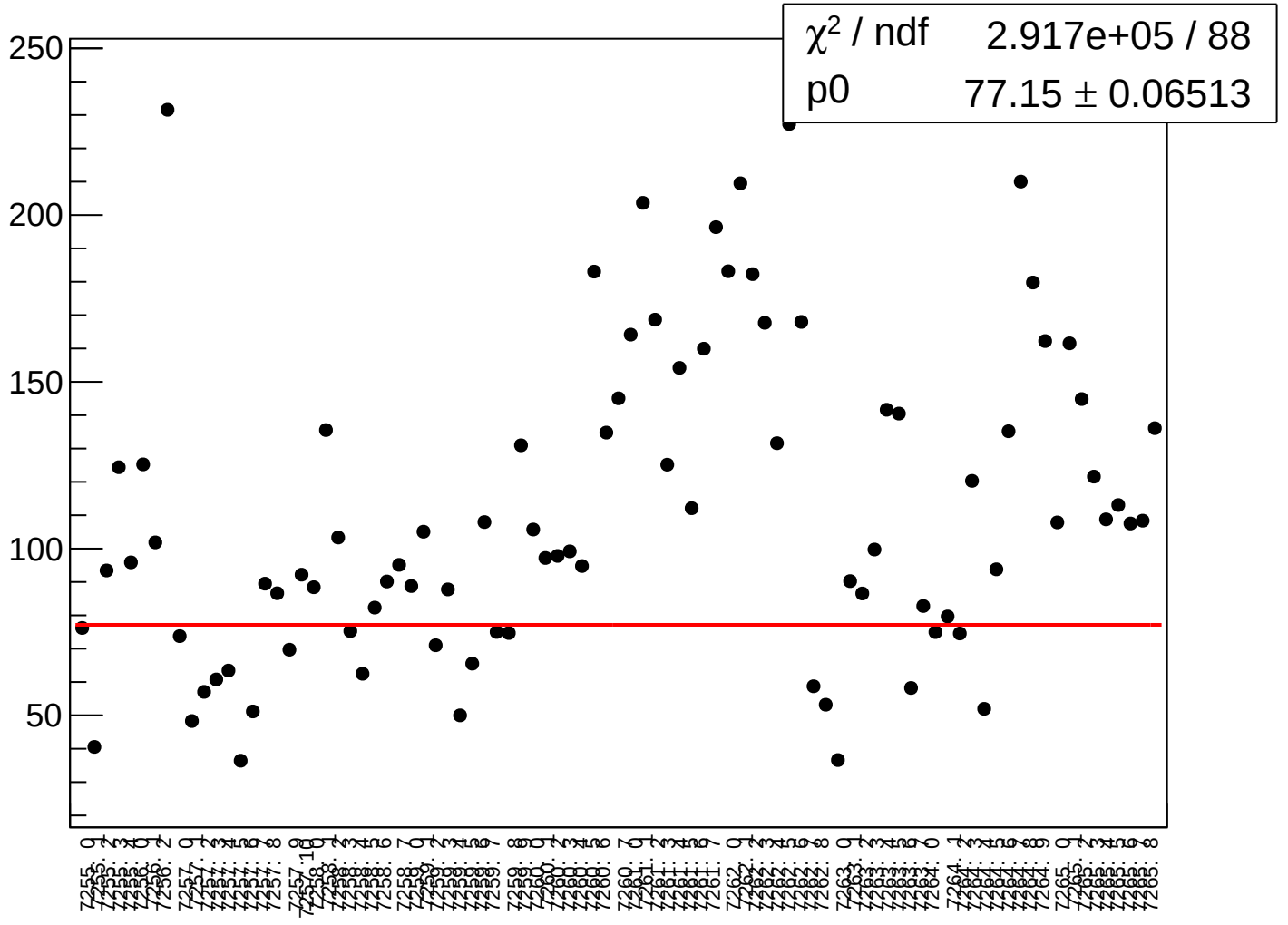

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.917e+05 / 88
p0 77.15 ± 0.06513
250
200
150
100
50

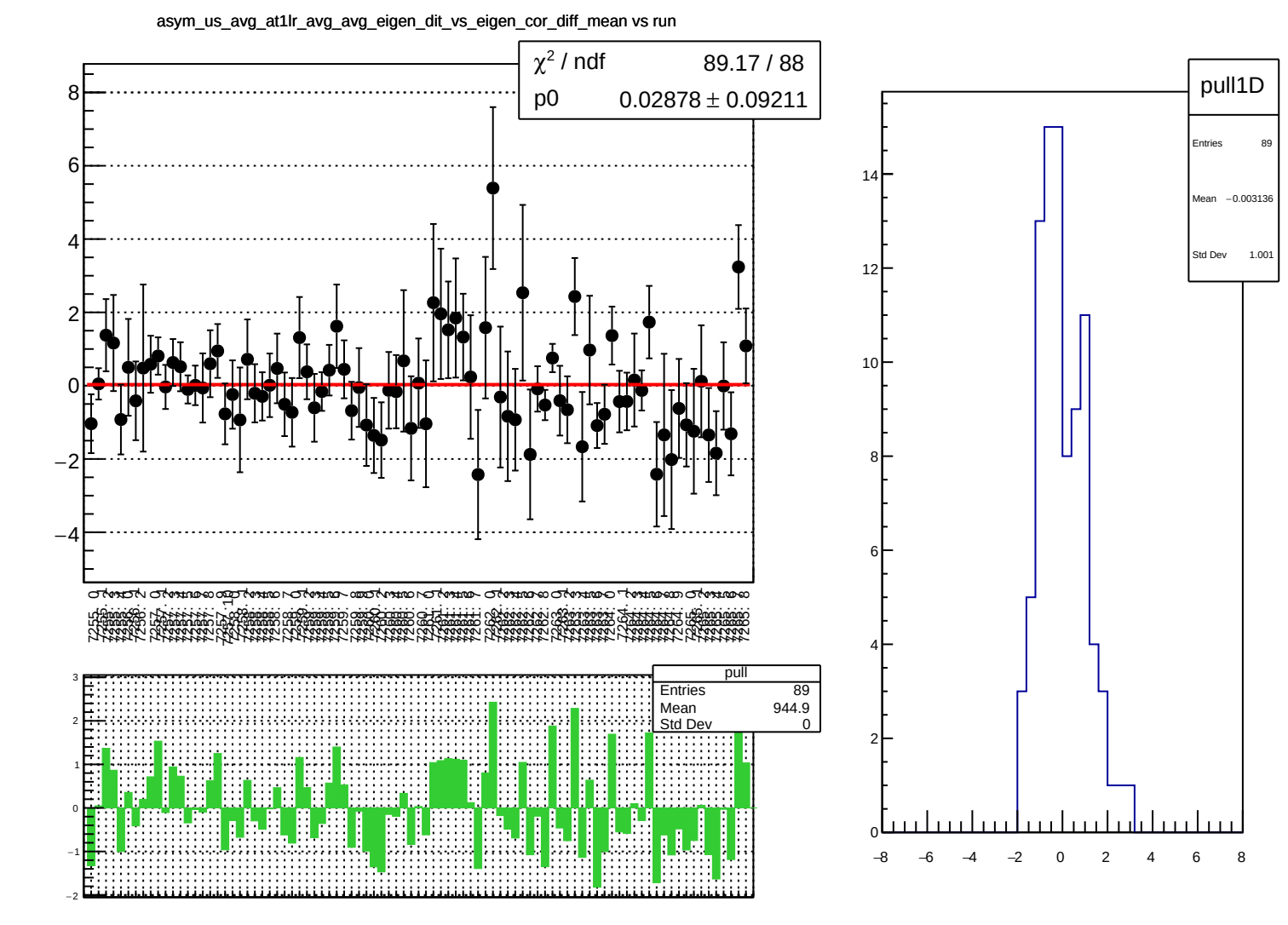

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 82.54 / 88
p0 2.595e−06 ± 5.373e−06
pull
Entries 89
Mean −717.2
Std Dev 0
pull1D
Entries 89
Mean 0.004
Std Dev 0.963

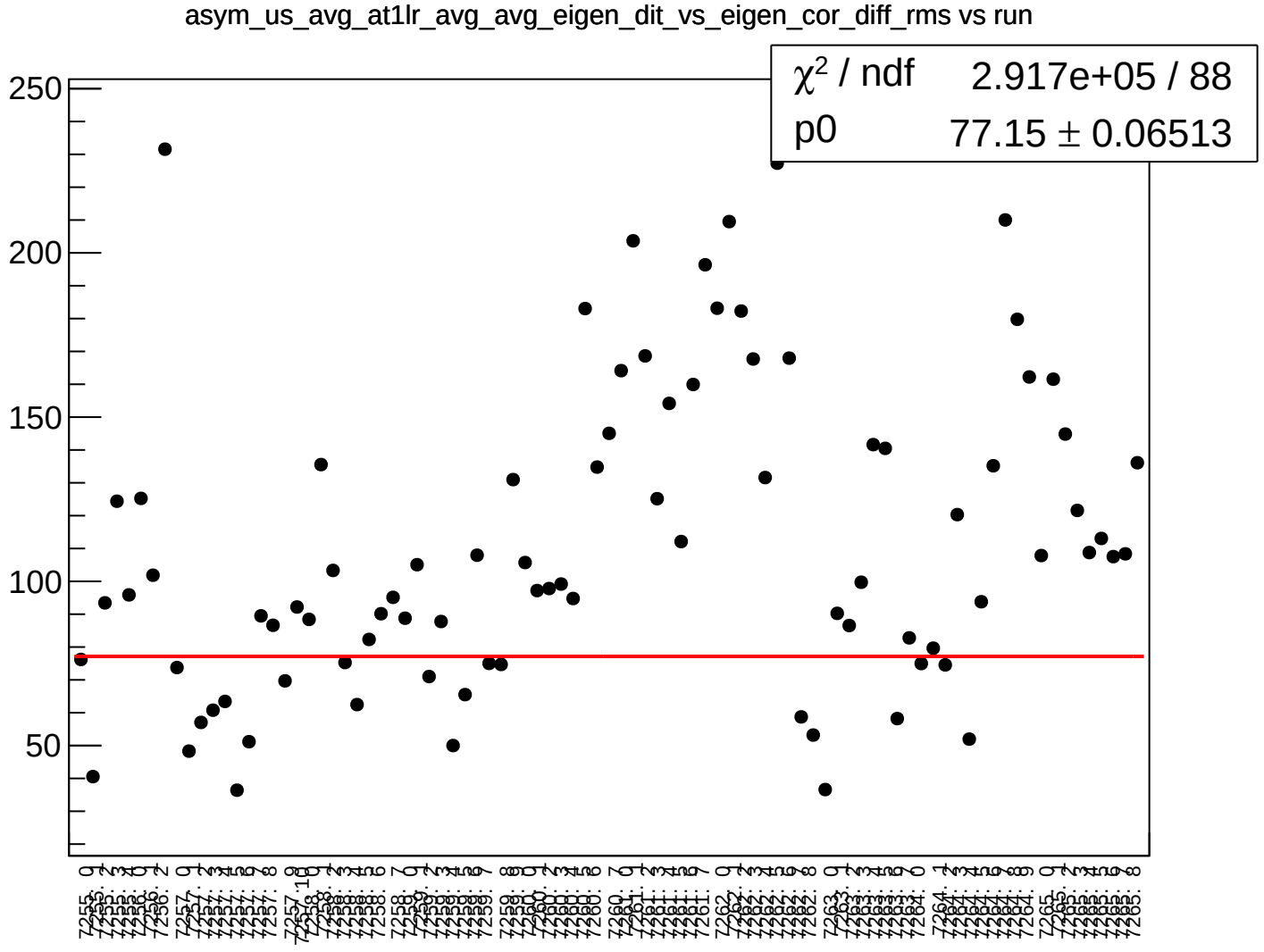

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5085 / 88
p0 0.004939 ± 3.799e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044

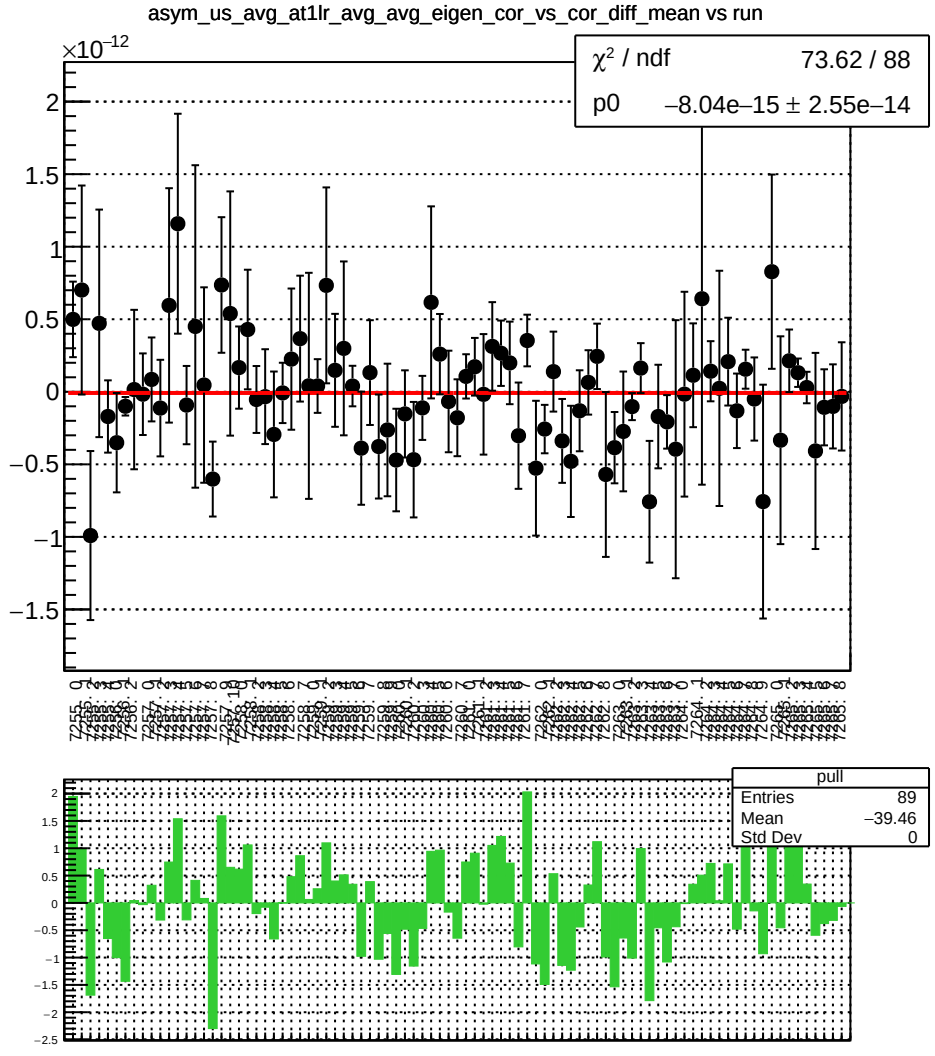

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.17 / 88
p0 0.02878 ± 0.09211
pull
Entries 89
Mean 944.9
Std Dev 0

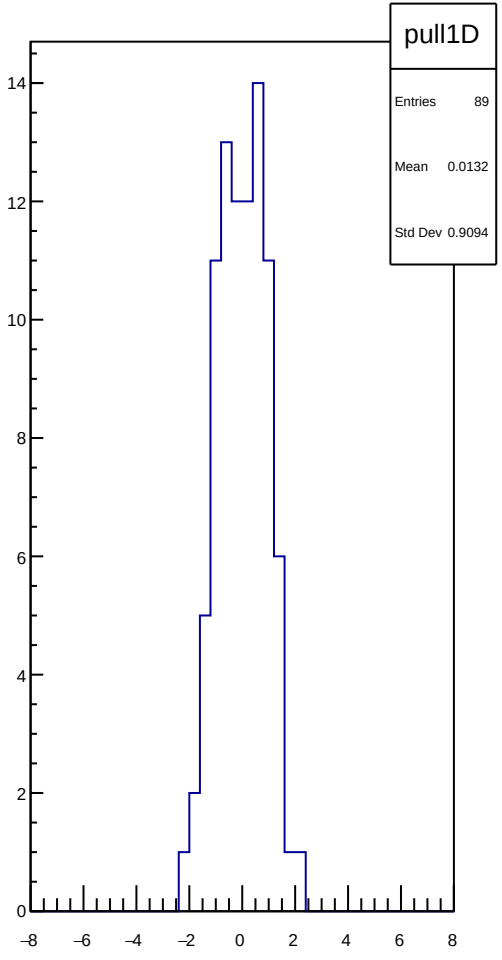

pull1D
Entries 89
Mean −0.003136
Std Dev 1.001

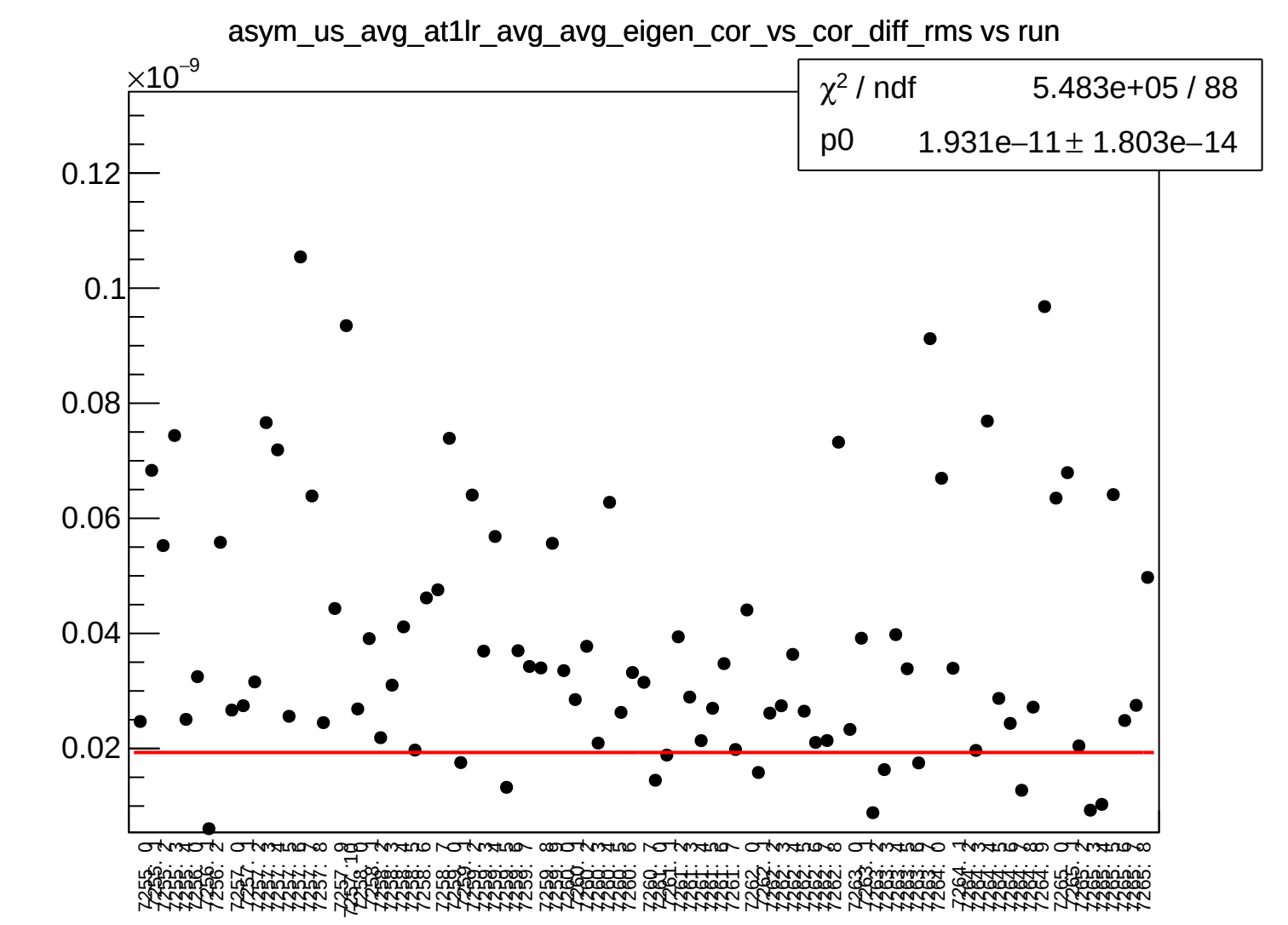

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.917e+05 / 88
p0 77.15 ± 0.06513
250
200
150
100
50

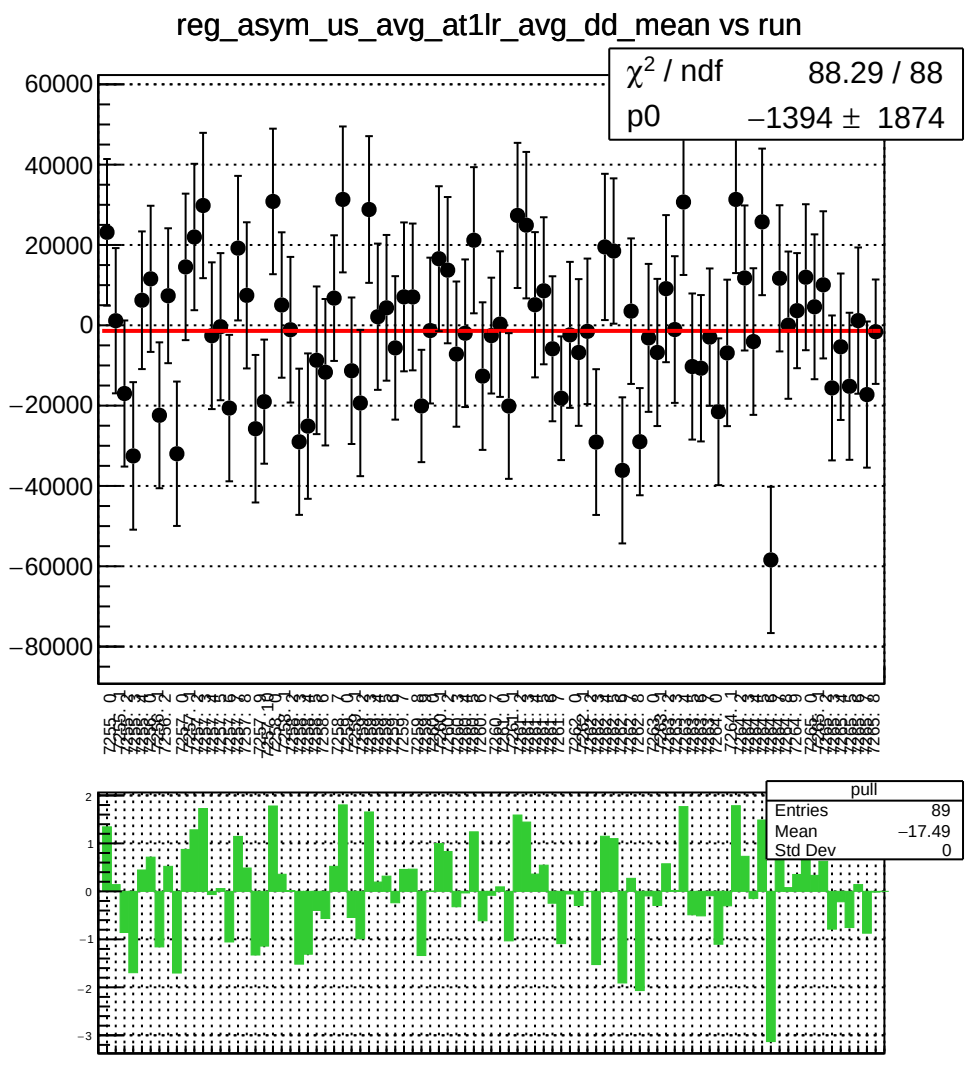

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.17 / 88
p0 0.02878 ± 0.09211
pull
Entries 89
Mean 944.9
Std Dev 0
pull1D
Entries 89
Mean −0.003136
Std Dev 1.001

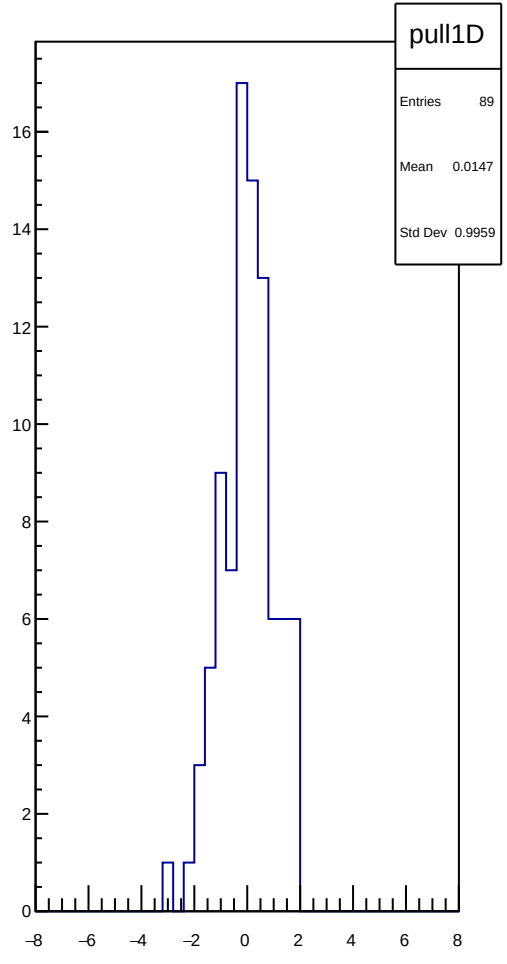

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.917e+05 / 88
p0 77.15 ± 0.06513
250
200
150
100
50

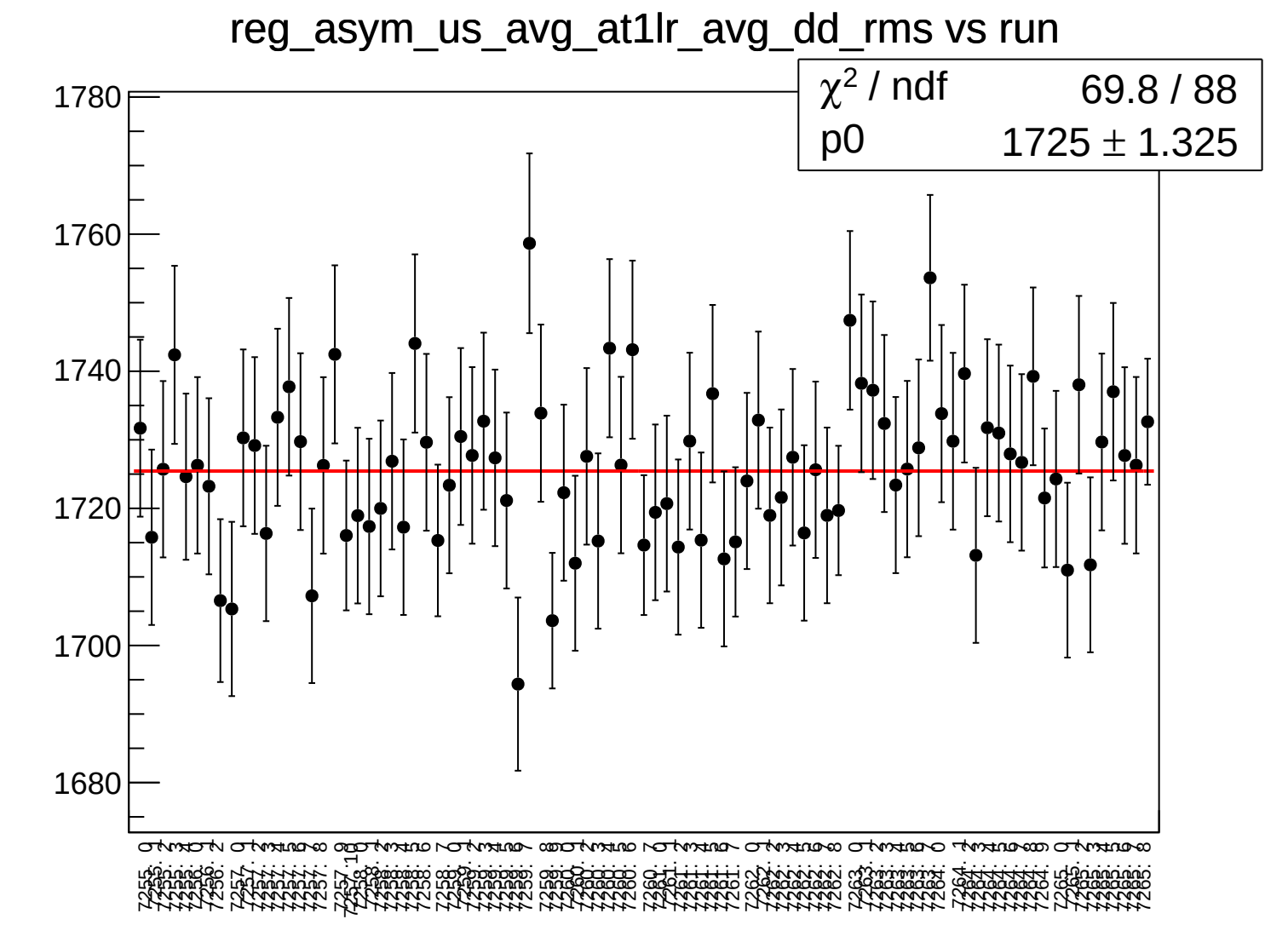

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.62 / 88
p0 −8.04e−15 ± 2.55e−14
pull
Entries 89
Mean −39.46
Std Dev 0

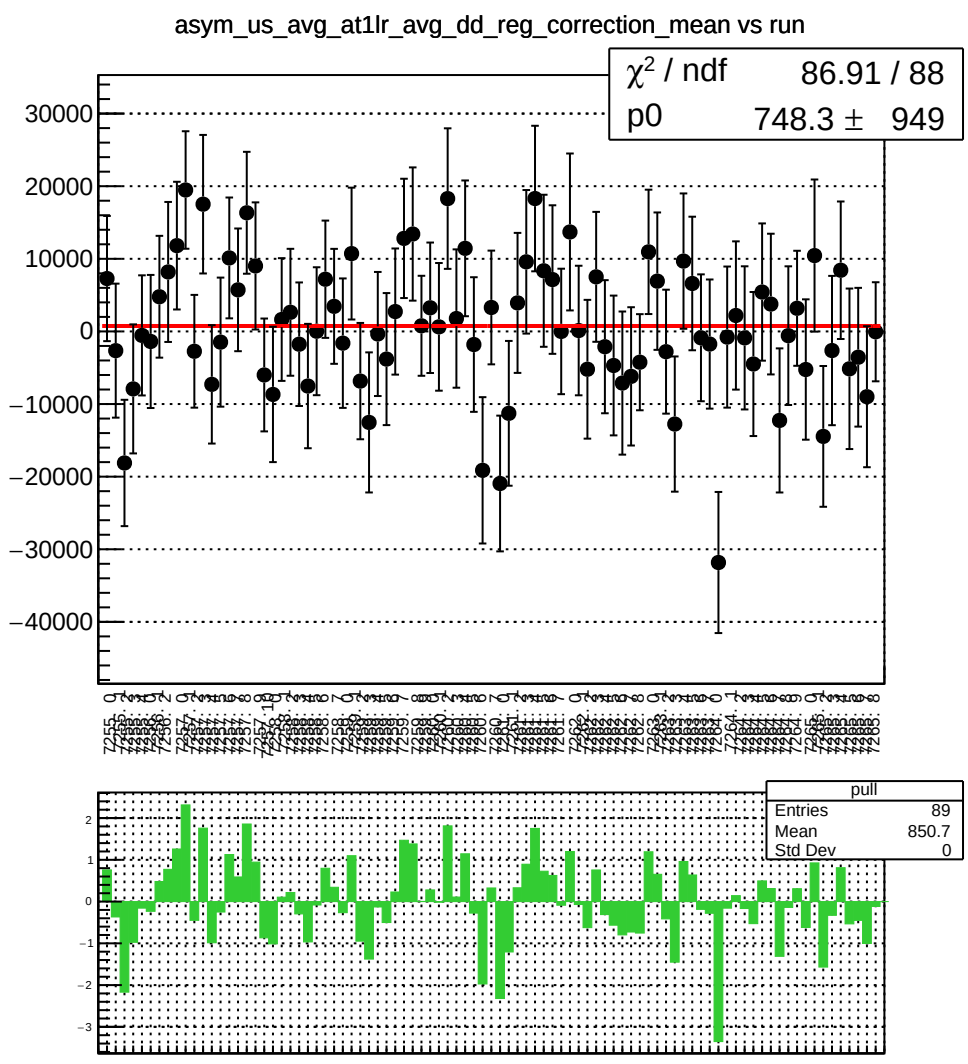

pull1D
Entries 89
Mean 0.0132
Std Dev 0.9094

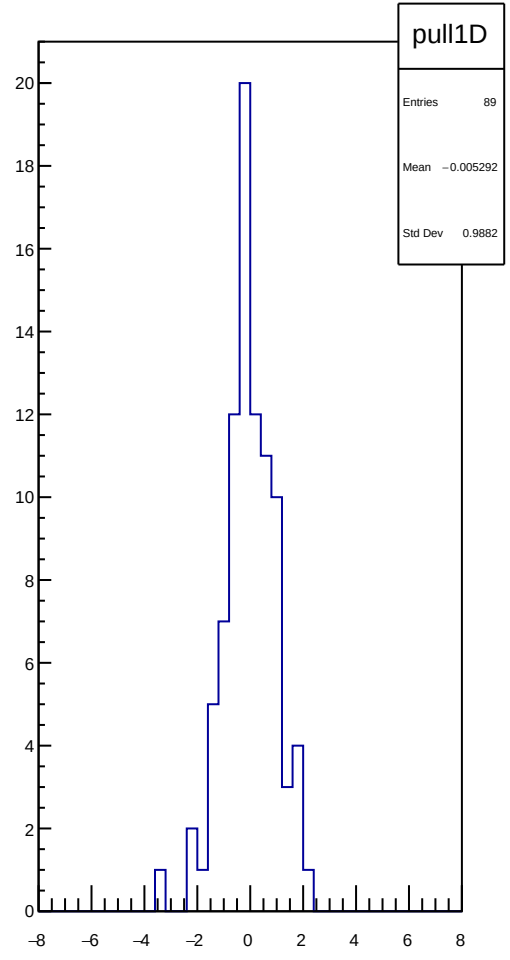

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.483e+05 / 88
p0 1.931e−11 ± 1.803e−14
0.12
0.1
0.08
0.06
0.04
0.02

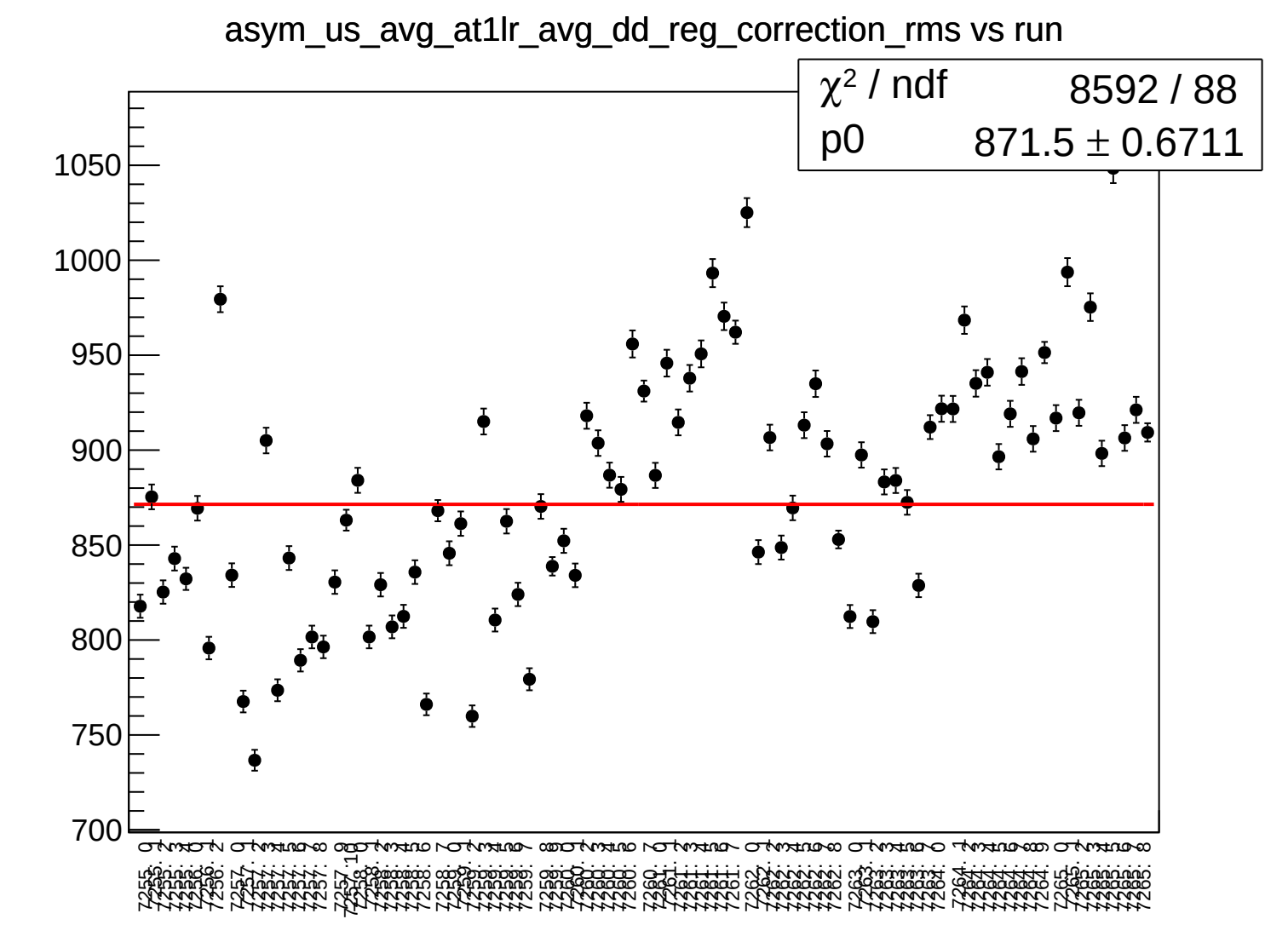

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 88.29 / 88
p0 −1394 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −17.49
Std Dev 0
2
1
0
−1
−2
−3

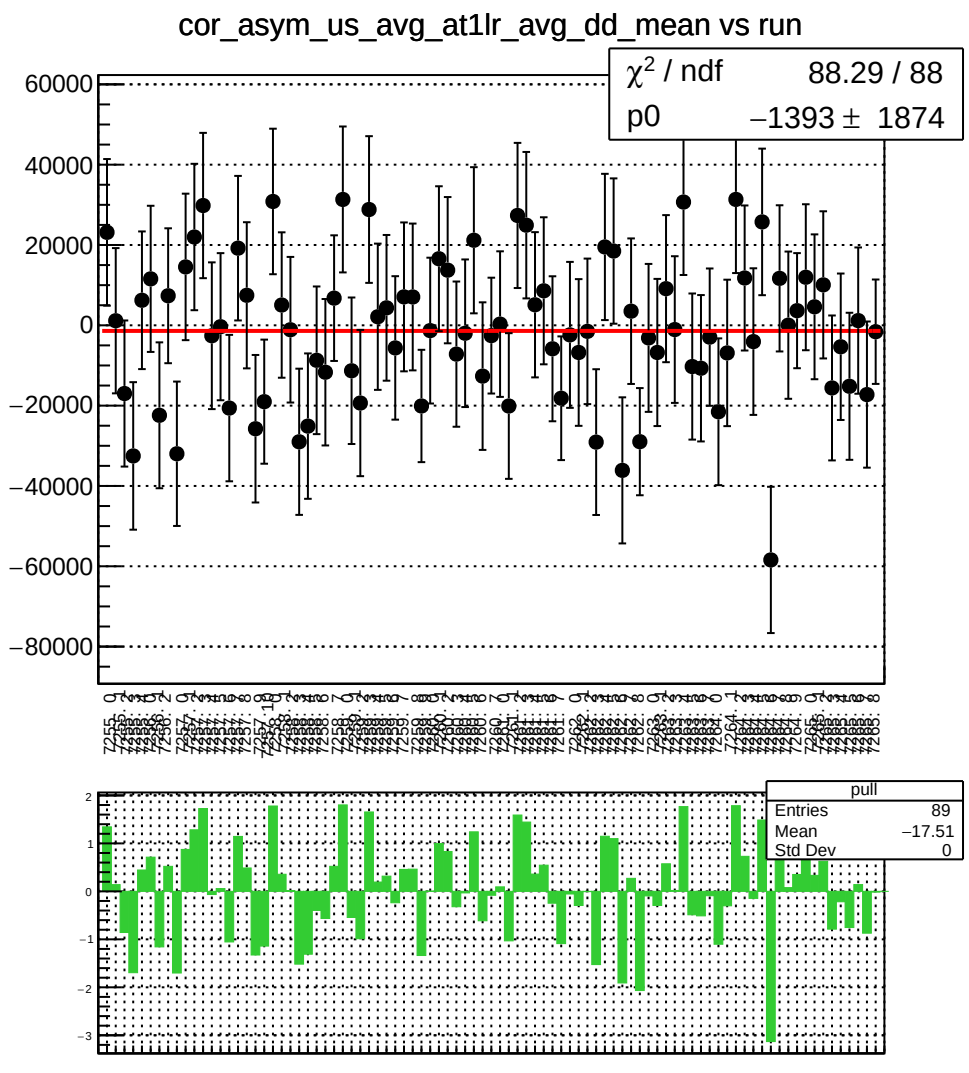

pull1D
Entries 89
Mean 0.0147
Std Dev 0.9959
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

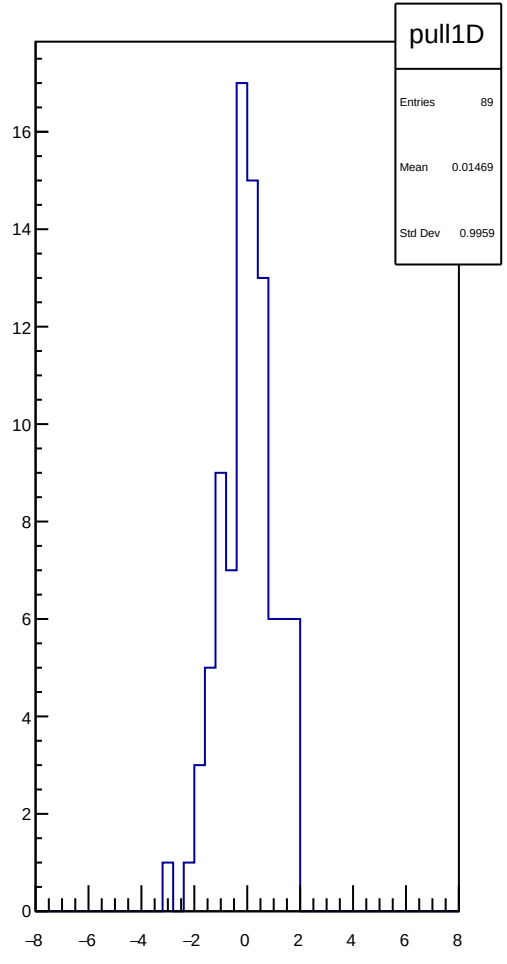

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 69.8 / 88
p0 1725 ± 1.325
1780
1760
1740
1720
1700
1680

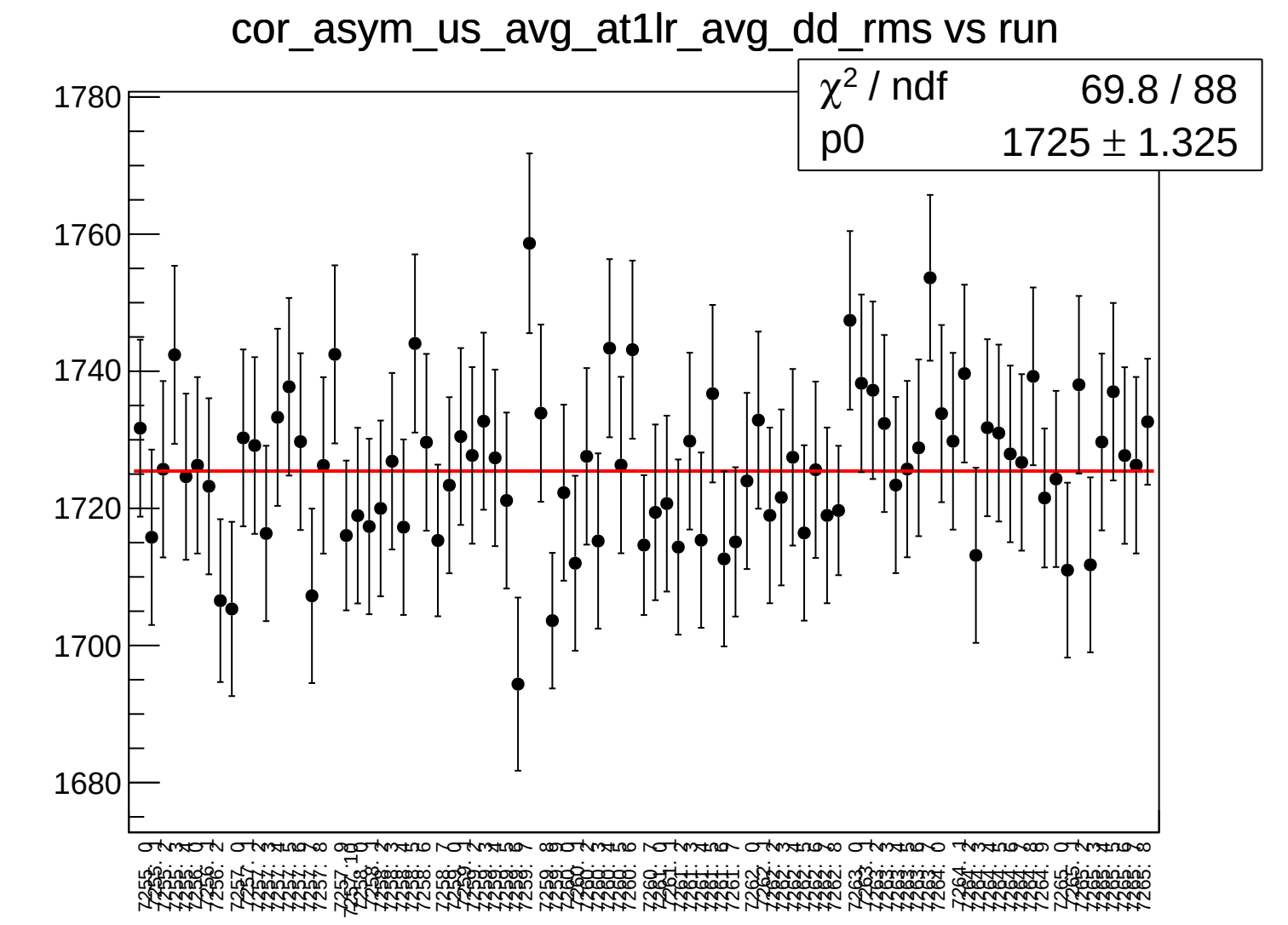

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 86.91 / 88
p0 748.3 ± 949
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 850.7
Std Dev 0
2
1
0
−1
−2
−3

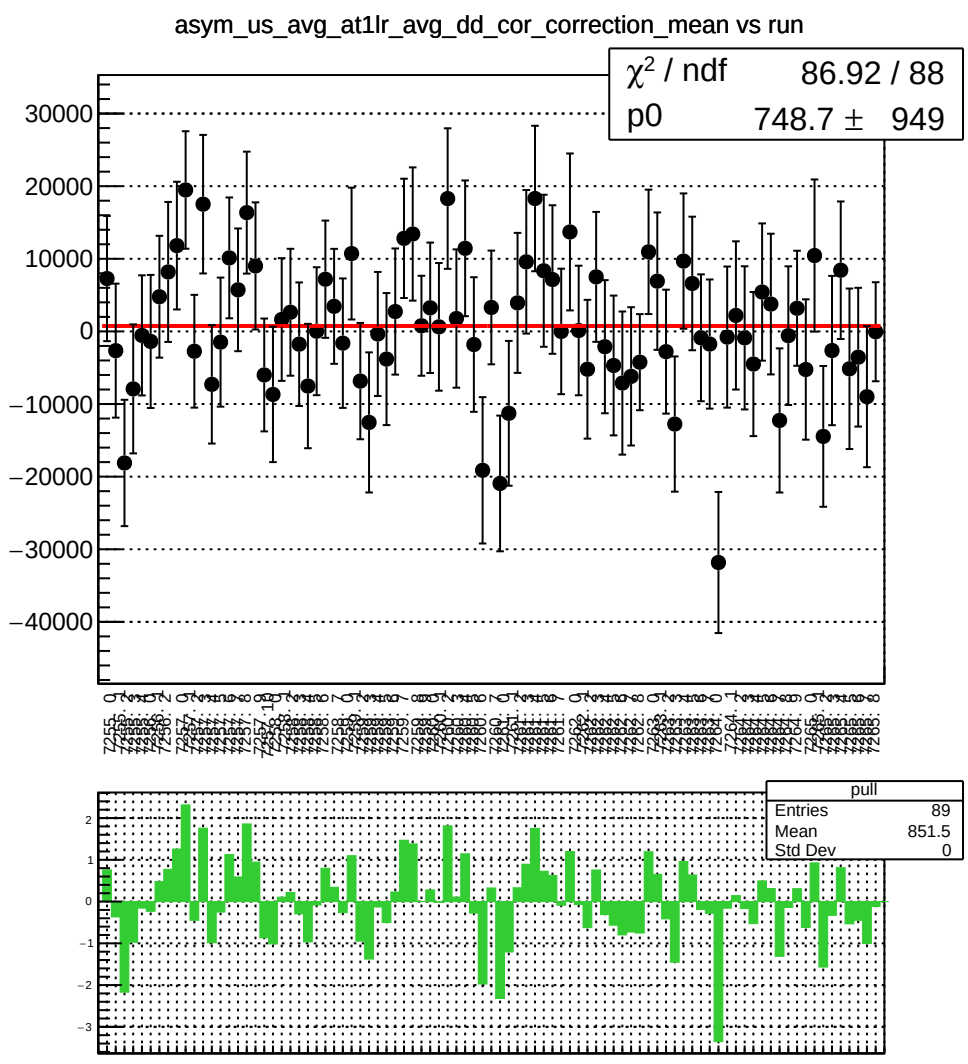

pull1D
Entries 89
Mean −0.005292
Std Dev 0.9882
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

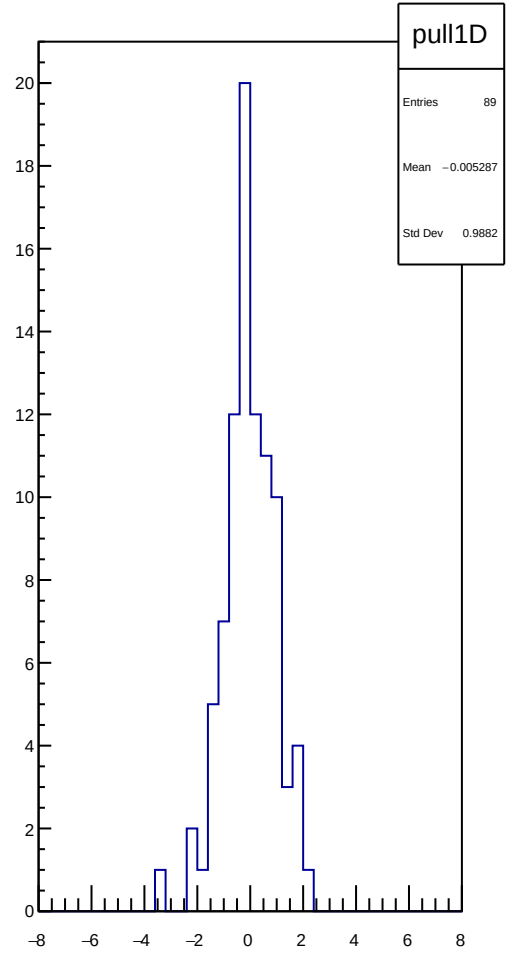

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 8592 / 88
p0 871.5 ± 0.6711
1050
1000
950
900
850
800
750
700

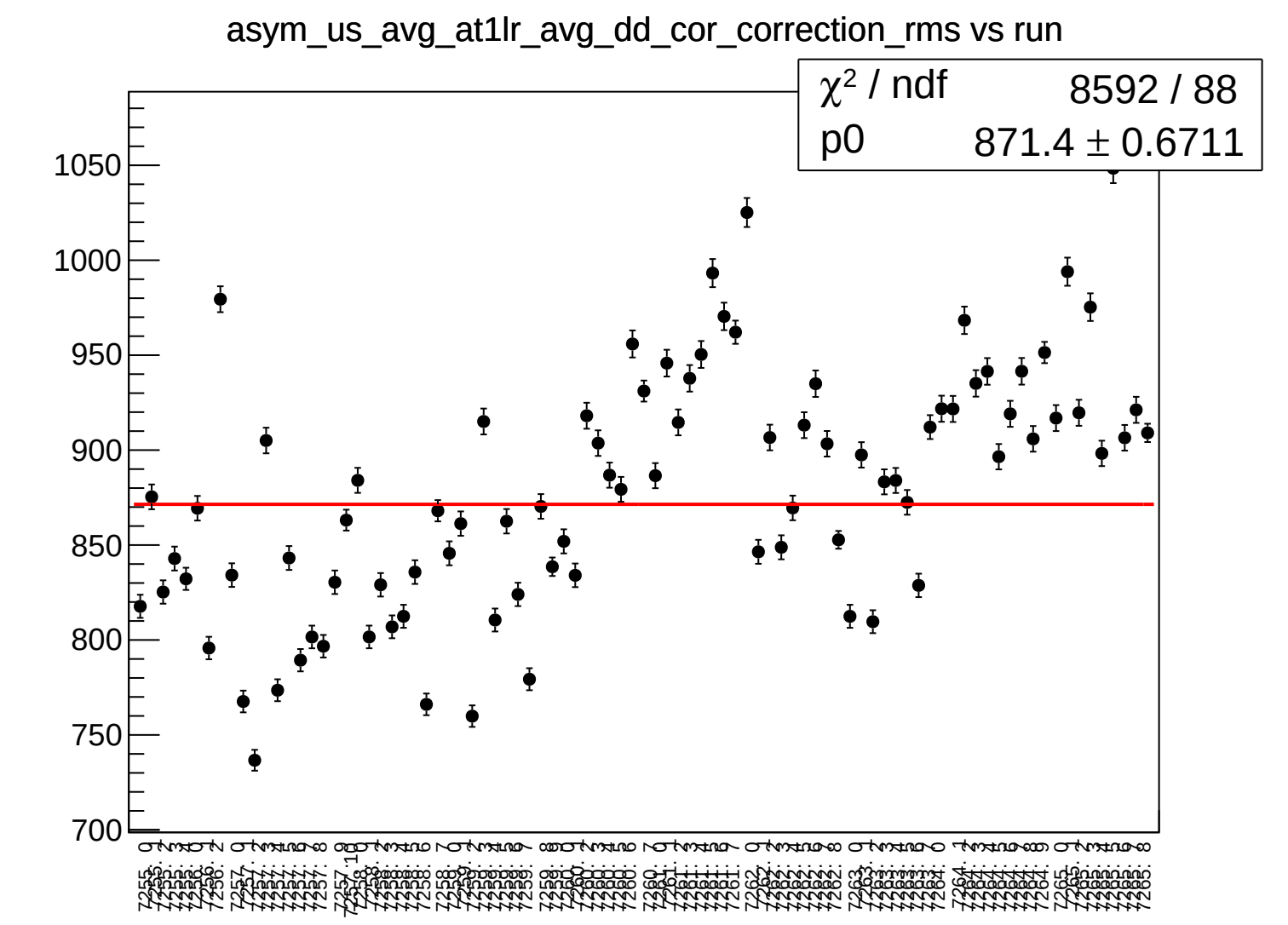

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 88.29 / 88
p0 −1393 ± 1874
pull
Entries 89
Mean −17.51
Std Dev 0

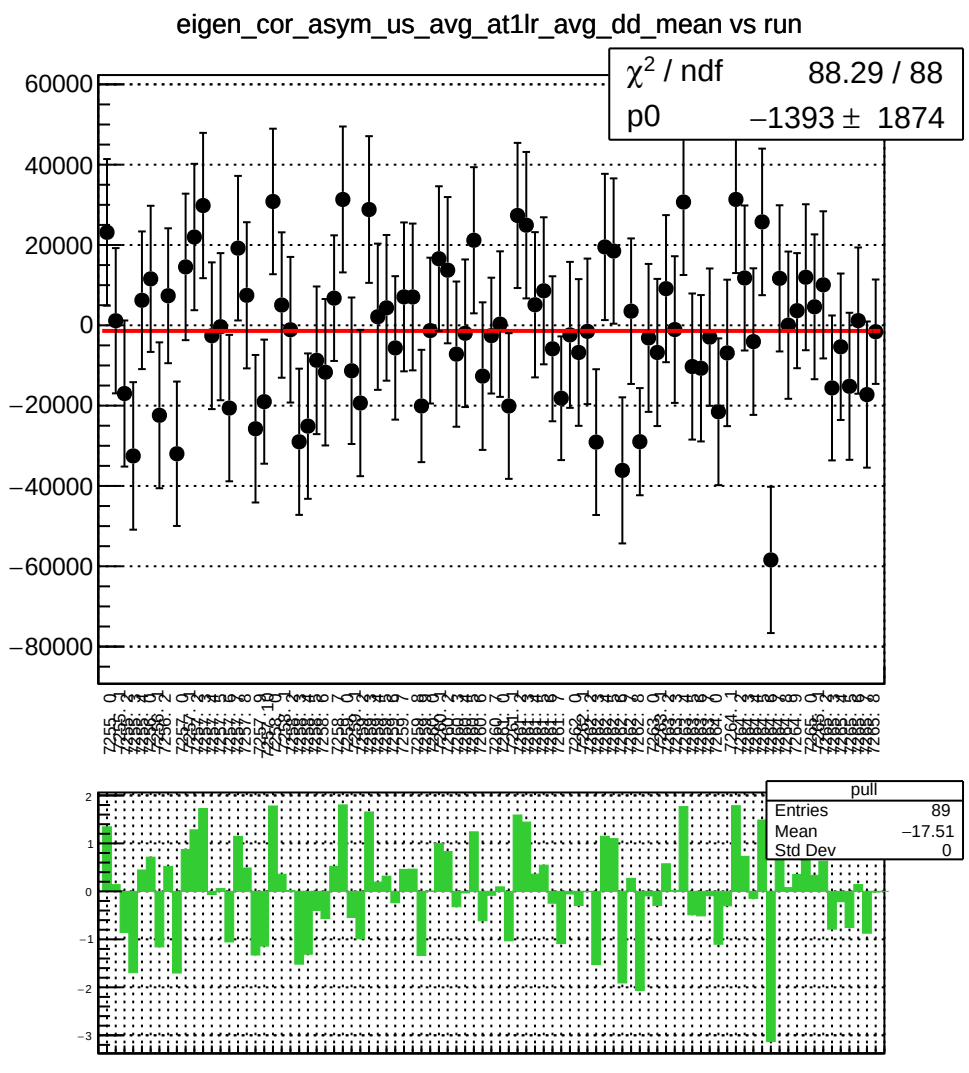

pull1D
Entries 89
Mean 0.01469
Std Dev 0.9959

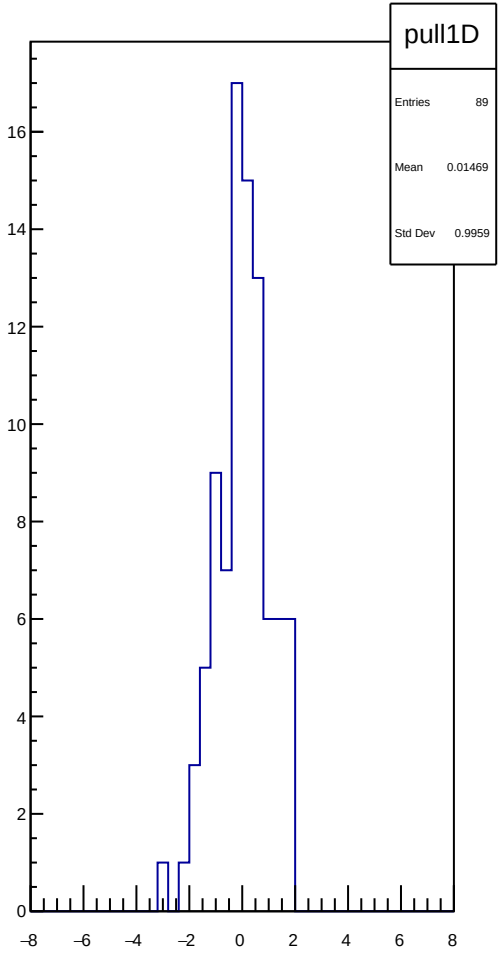

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 69.8 / 88
p0 1725 ± 1.325
1780
1760
1740
1720
1700
1680

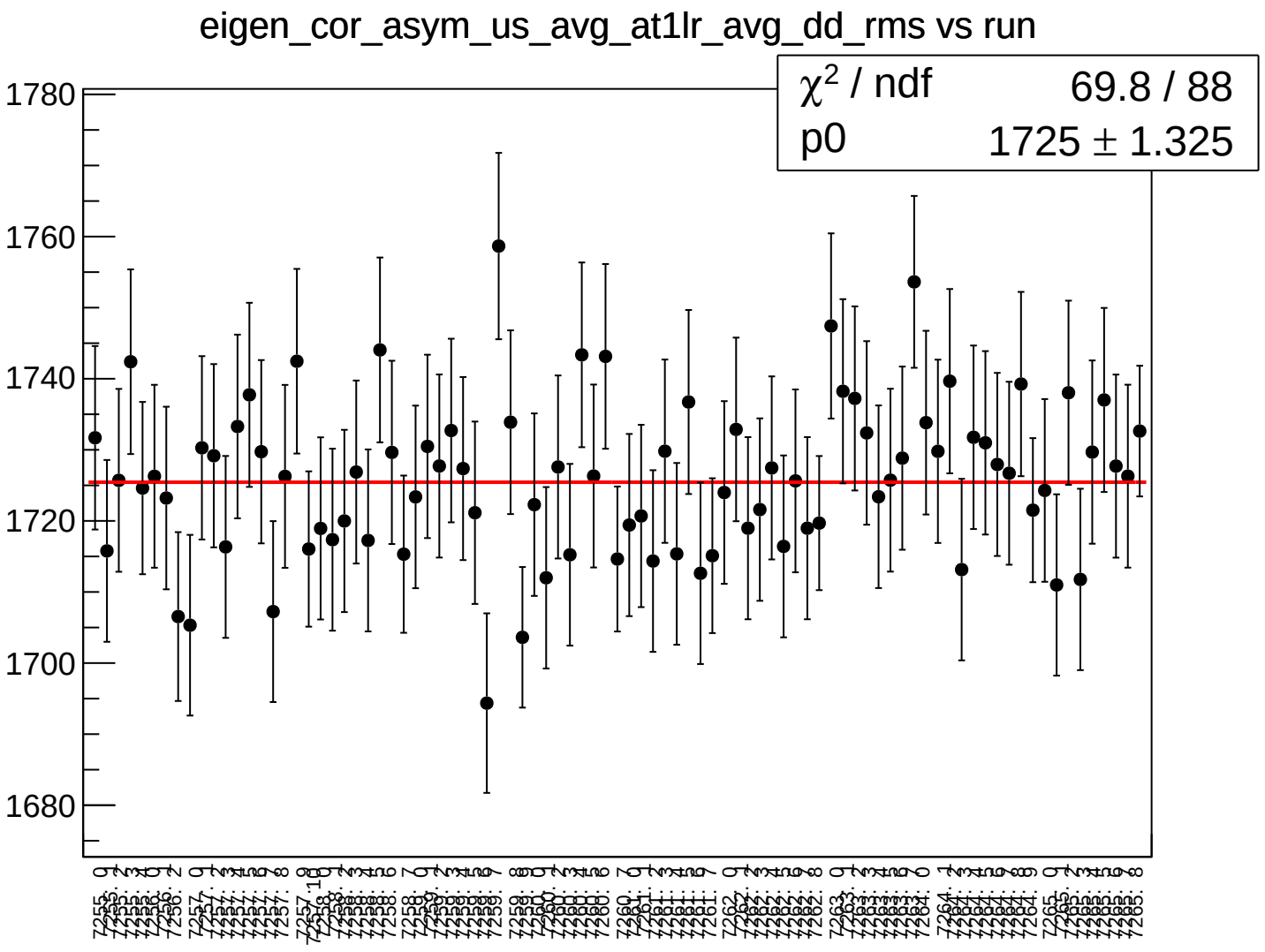

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 86.92 / 88
p0 748.7 ± 949
pull
Entries 89
Mean 851.5
Std Dev 0

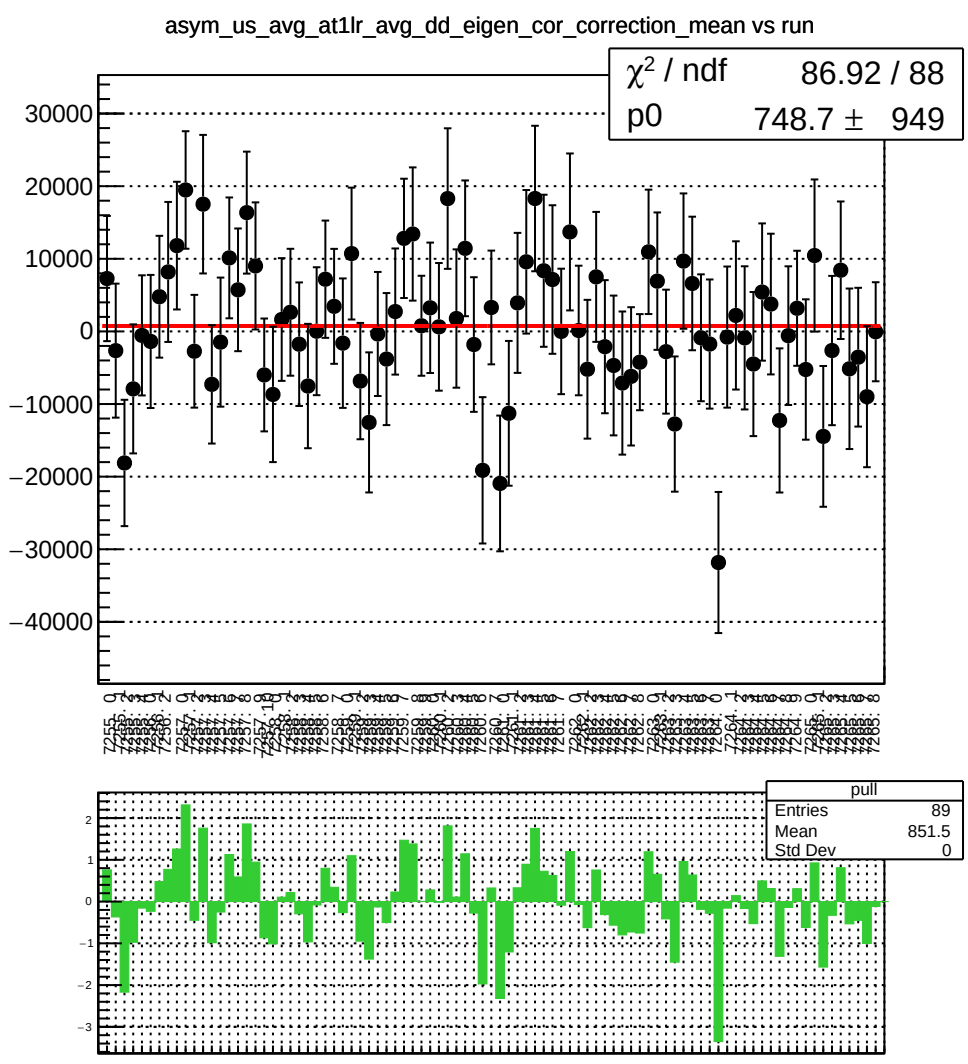

pull1D
Entries 89
Mean −0.005287
Std Dev 0.9882

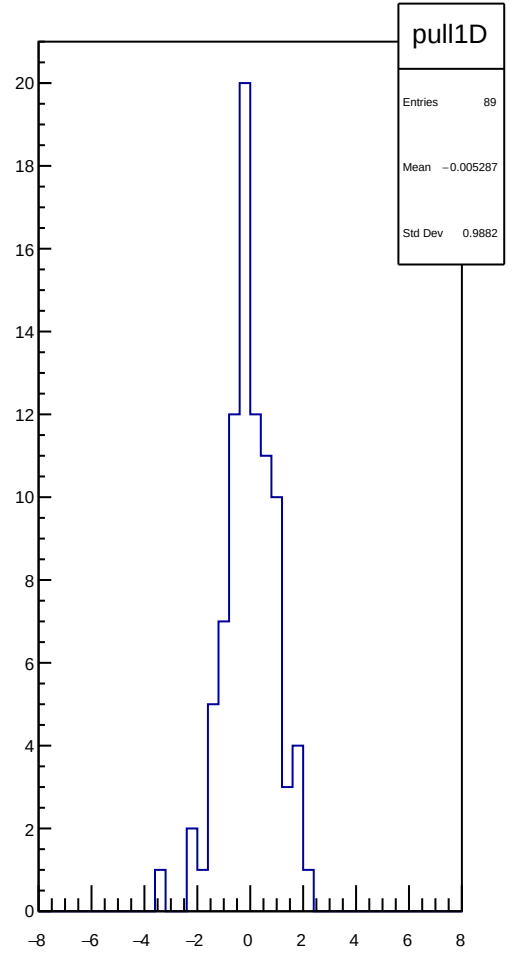

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 8592 / 88
p0 871.4 ± 0.6711
1050
1000
950
900
850
800
750
700

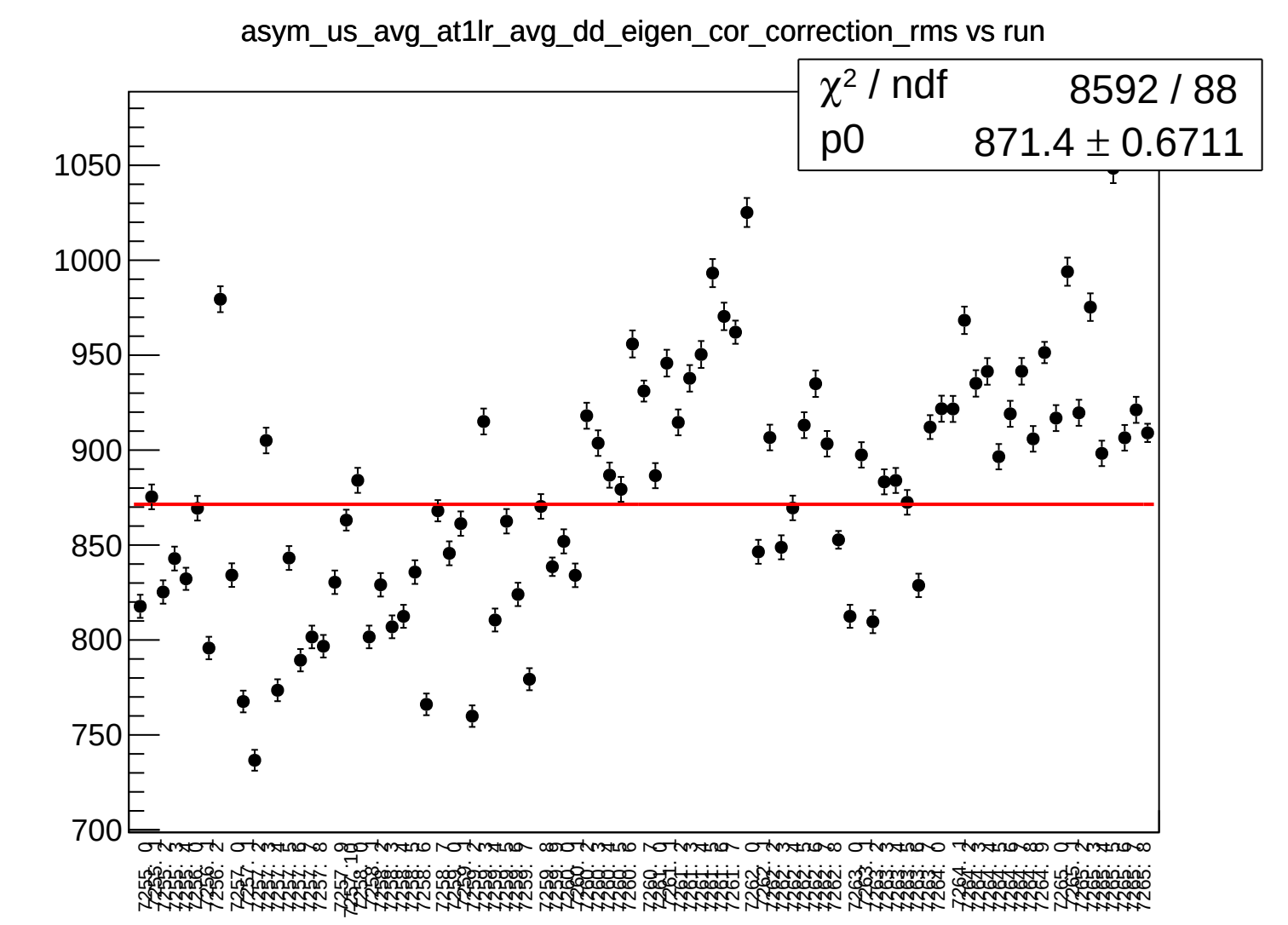

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 88.29 / 88
p0 −1393 ± 1874
pull
Entries 89
Mean −17.51
Std Dev 0

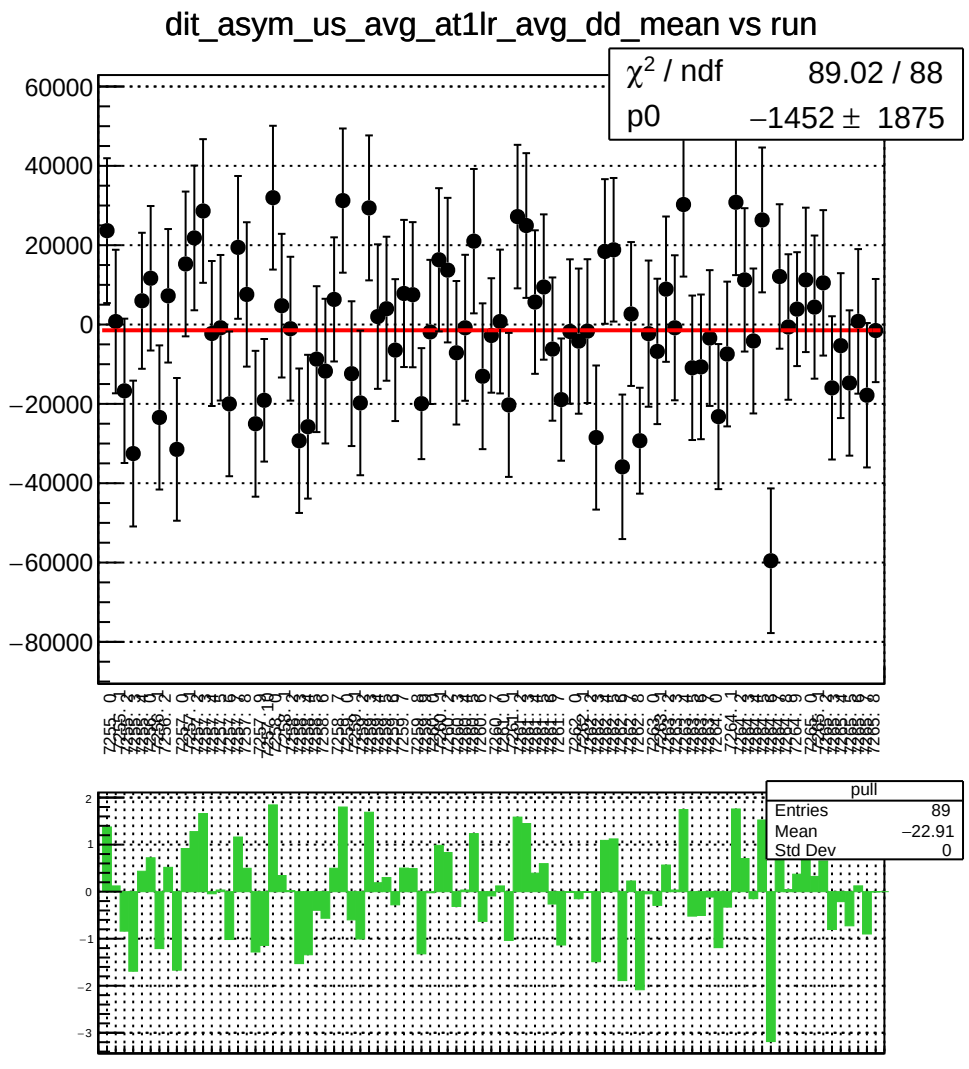

pull1D
Entries 89
Mean 0.01469
Std Dev 0.9959

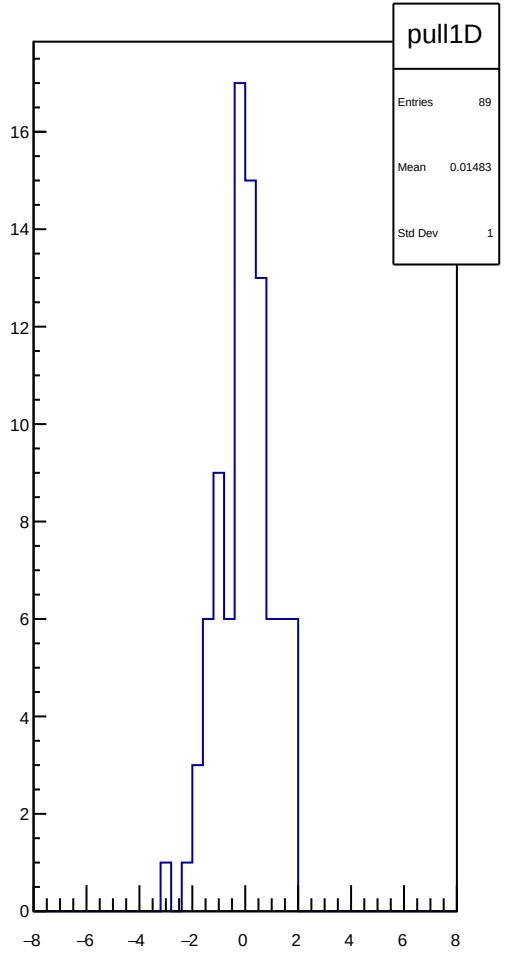

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 69.8 / 88
p0 1725 ± 1.325
1780
1760
1740
1720
1700
1680

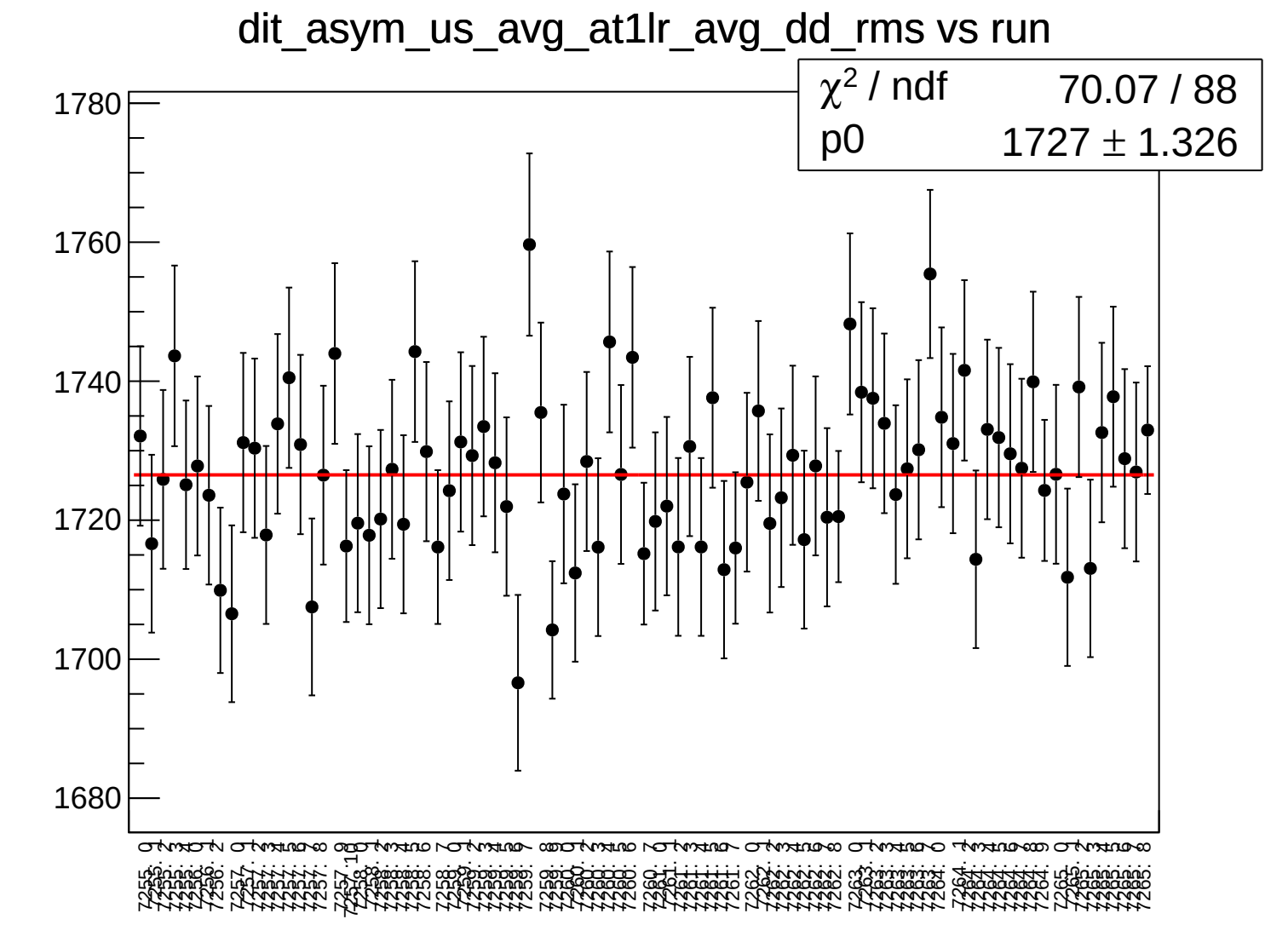

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.92 / 88
p0 748.7 ± 949
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 851.5
Std Dev 0
2
1
0
−1
−2
−3

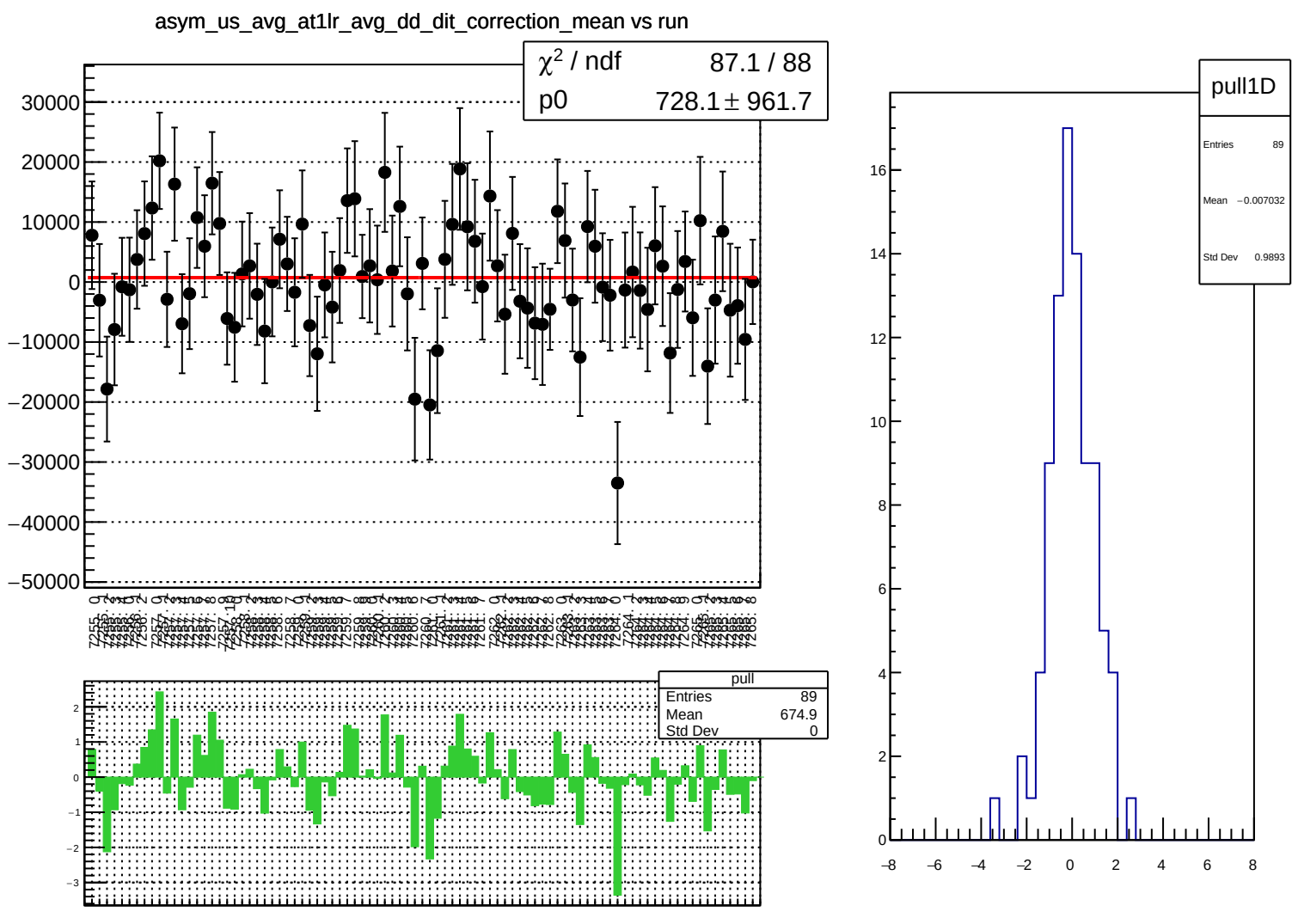

pull1D
Entries 89
Mean −0.005287
Std Dev 0.9882
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

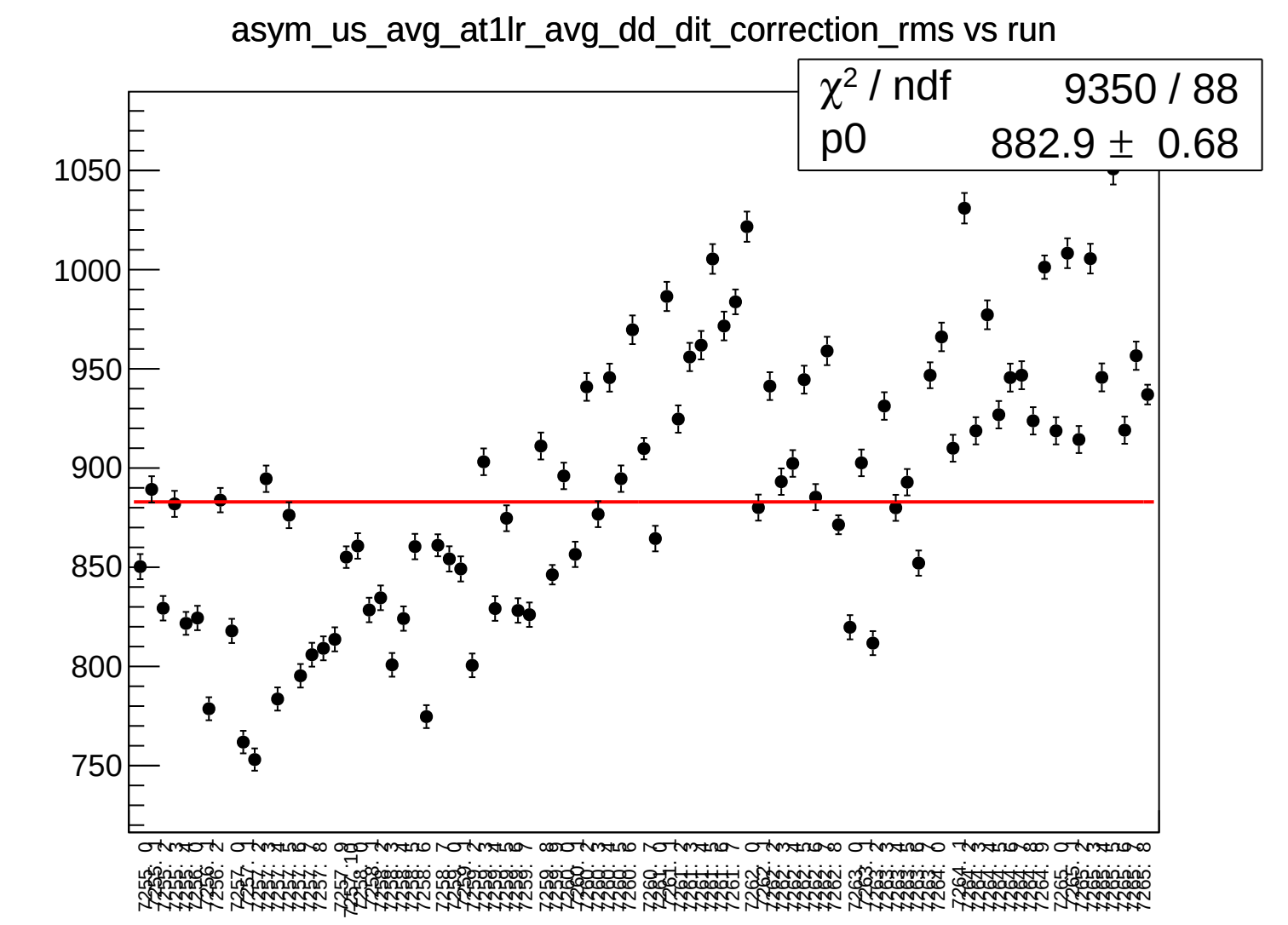

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8592 / 88
p0 871.4 ± 0.6711
1050
1000
950
900
850
800
750
700

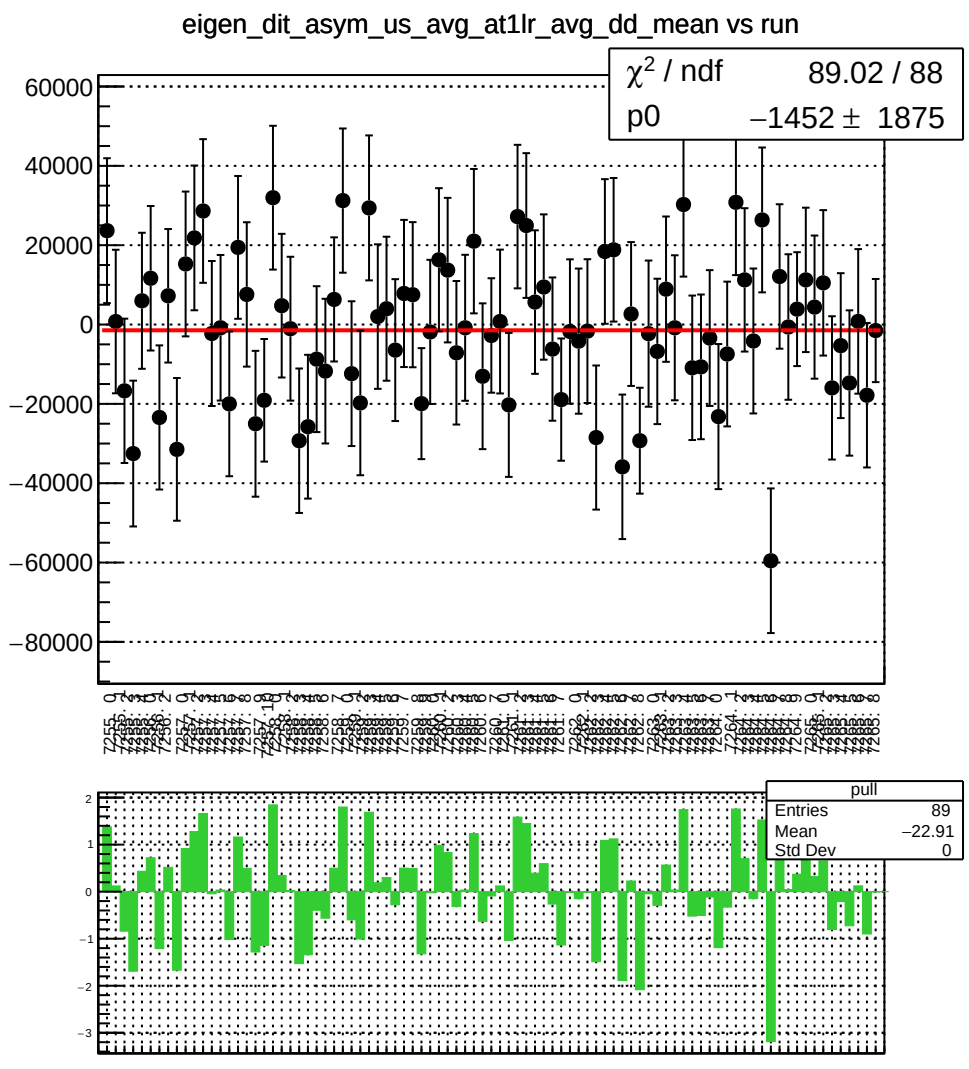

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 89.02 / 88
p0 −1452 ± 1875
pull
Entries 89
Mean −22.91
Std Dev 0

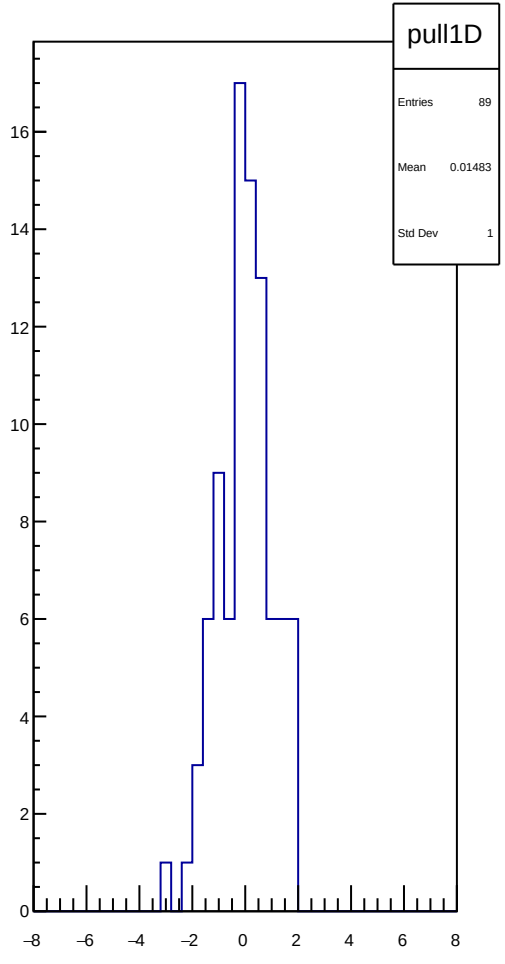

pull1D
Entries 89
Mean 0.01483
Std Dev 1

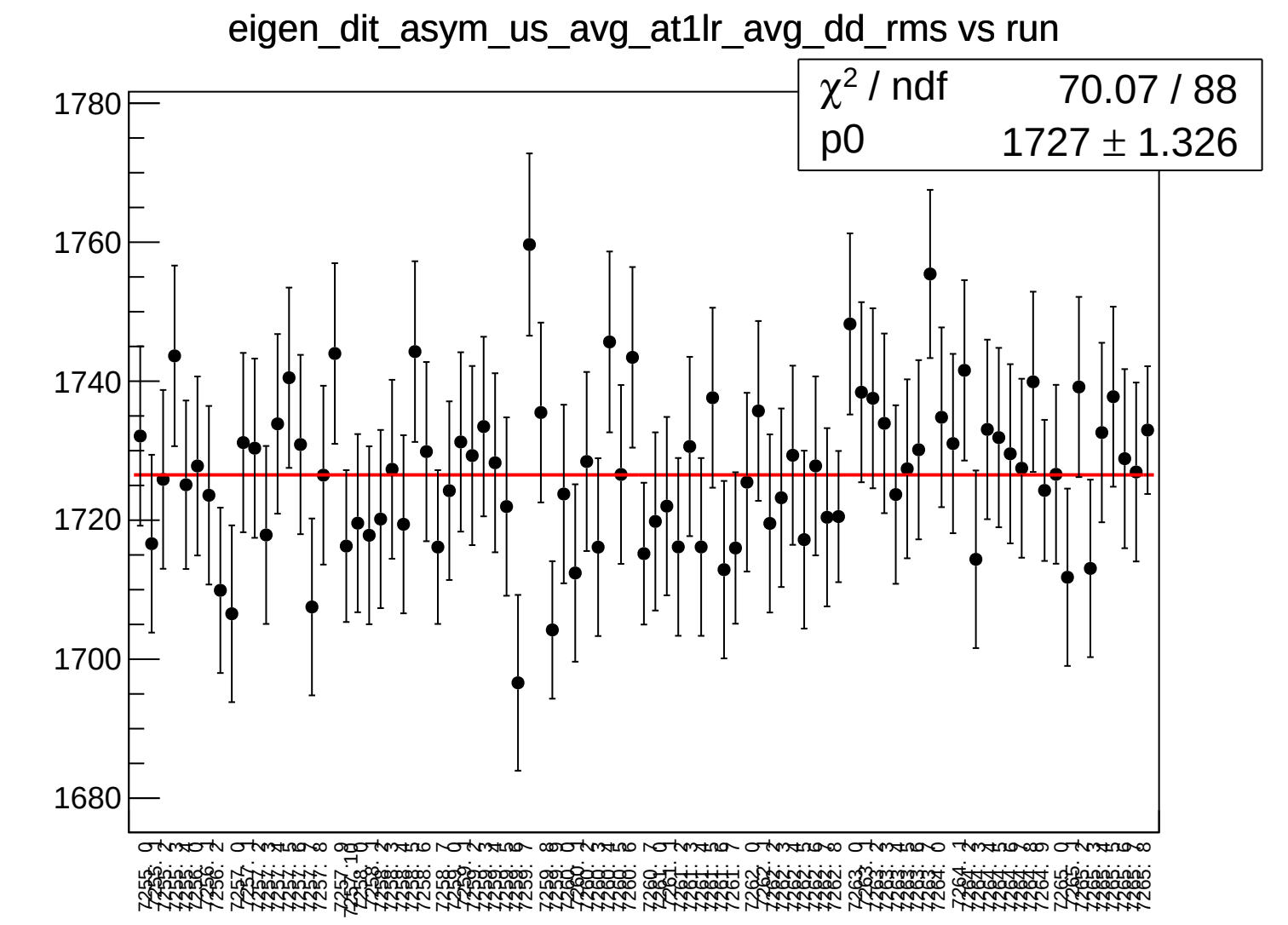

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 70.07 / 88
p0 1727 ± 1.326
1780
1760
1740
1720
1700
1680

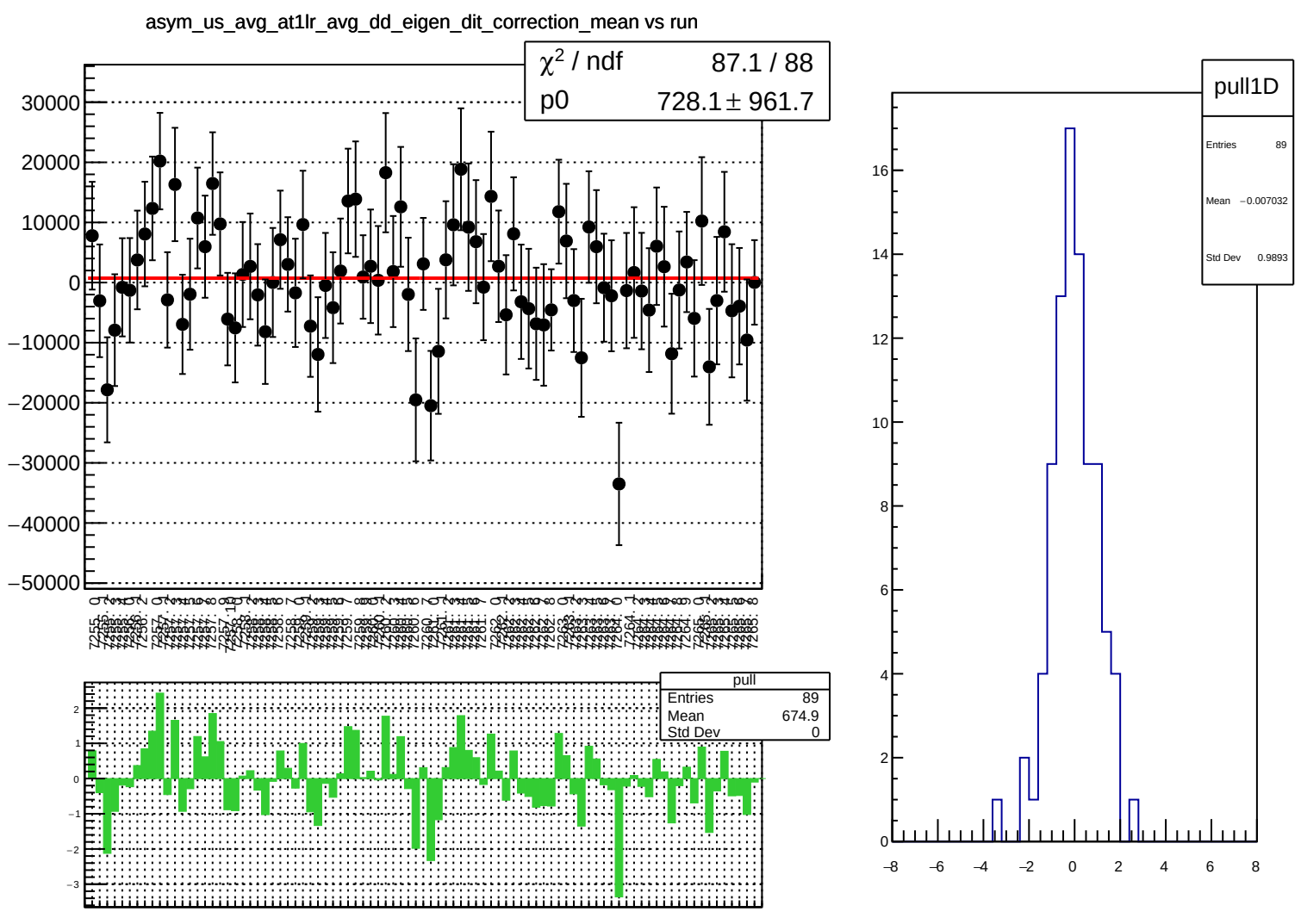

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 87.1 / 88
p0 728.1 ± 961.7
pull
Entries 89
Mean 674.9
Std Dev 0
pull1D
Entries 89
Mean −0.007032
Std Dev 0.9893

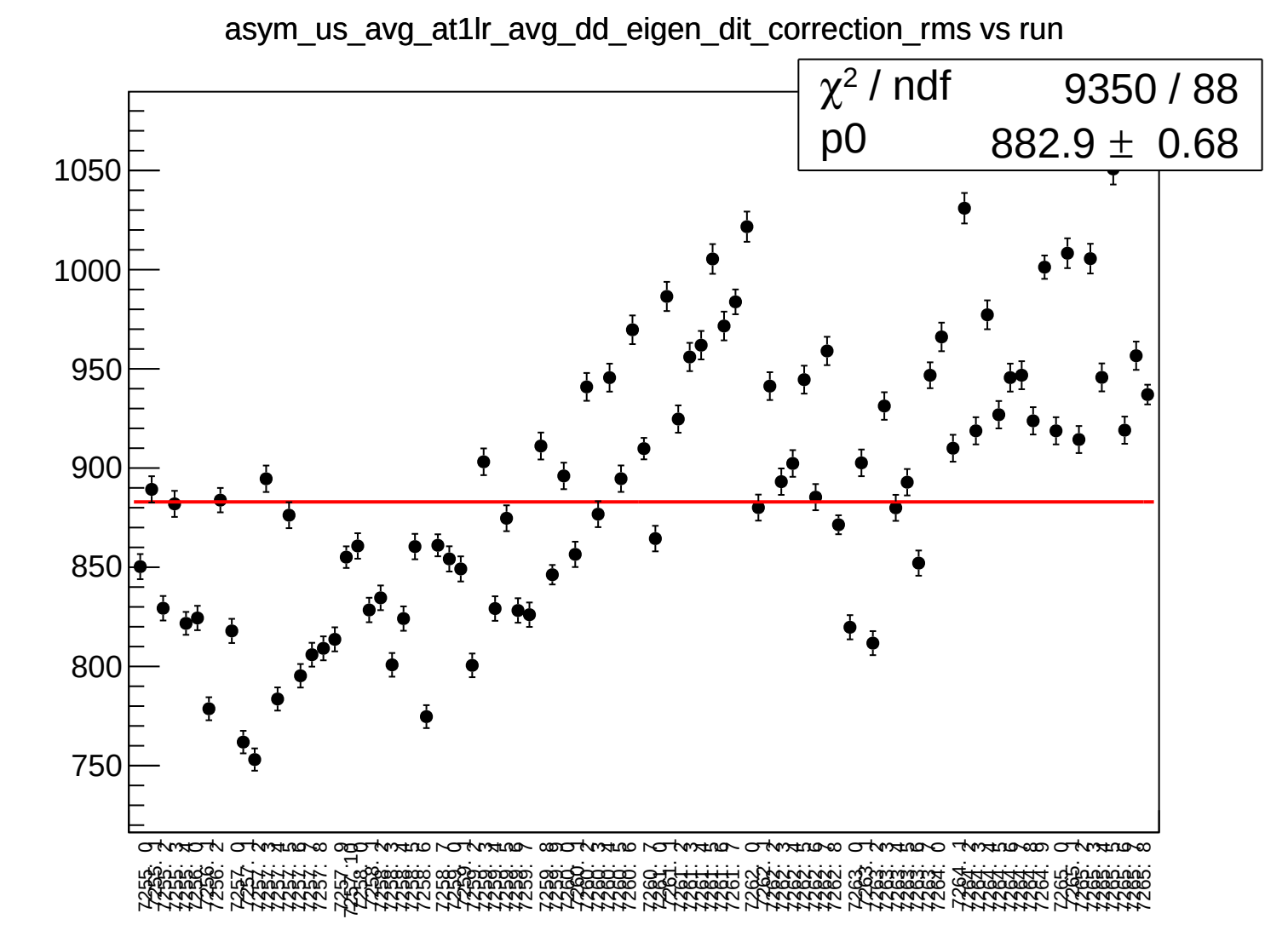

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 9350 / 88
p0 882.9 ± 0.68
1050
1000
950
900
850
800
750

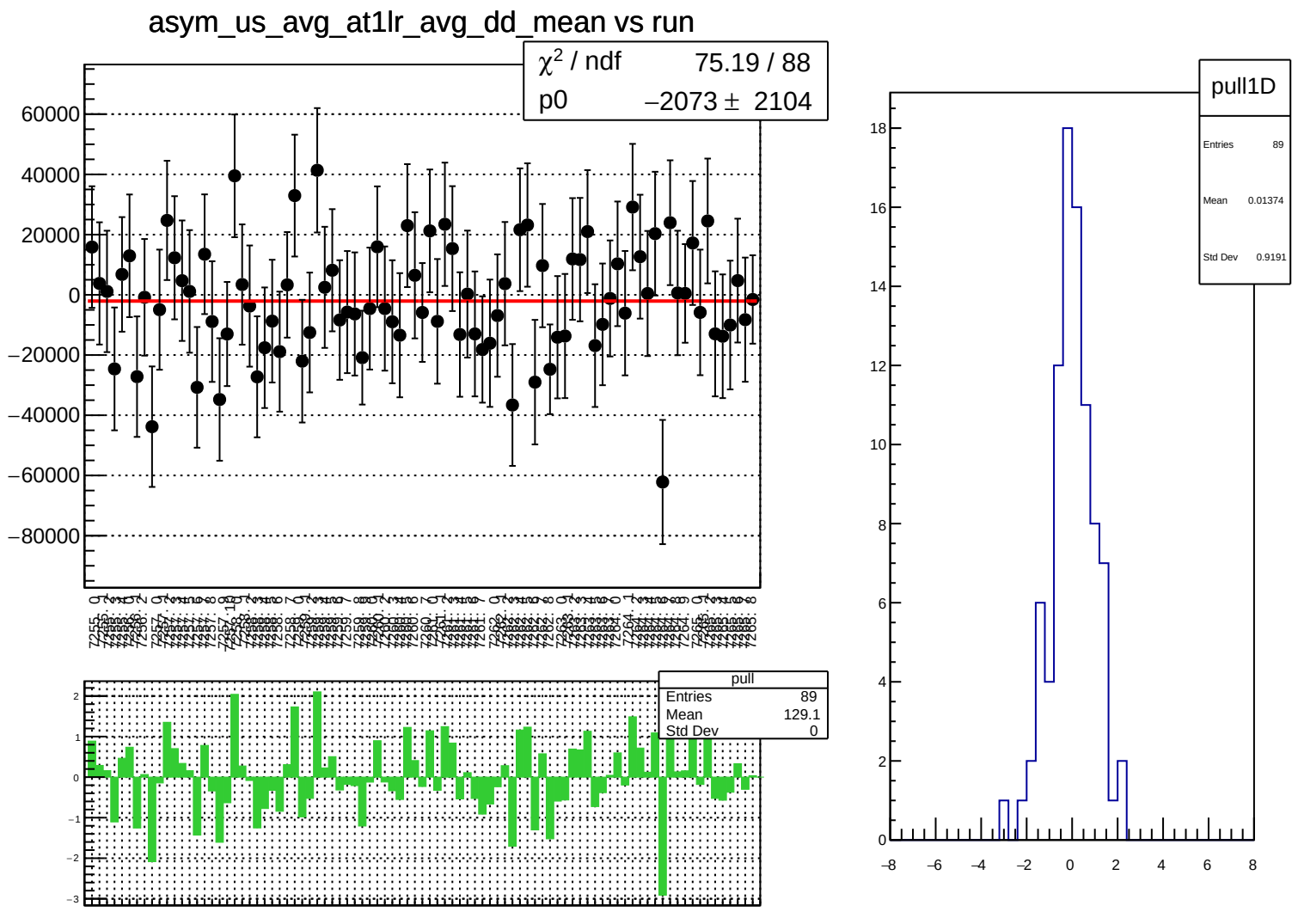

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 89.02 / 88
p0 −1452 ± 1875
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −22.91
Std Dev 0
2
1
0
−1
−2
−3

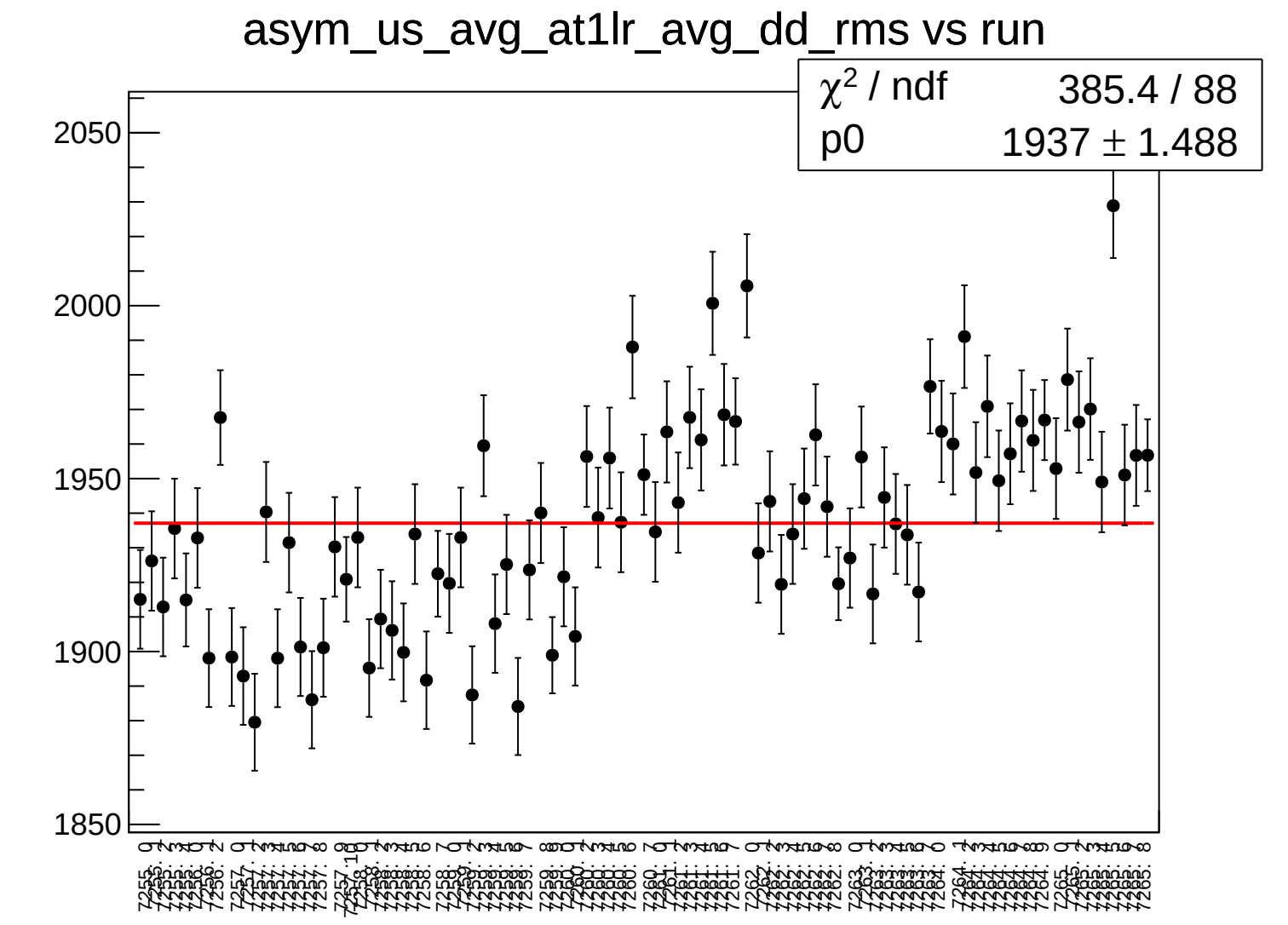

pull1D
Entries 89
Mean 0.01483
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

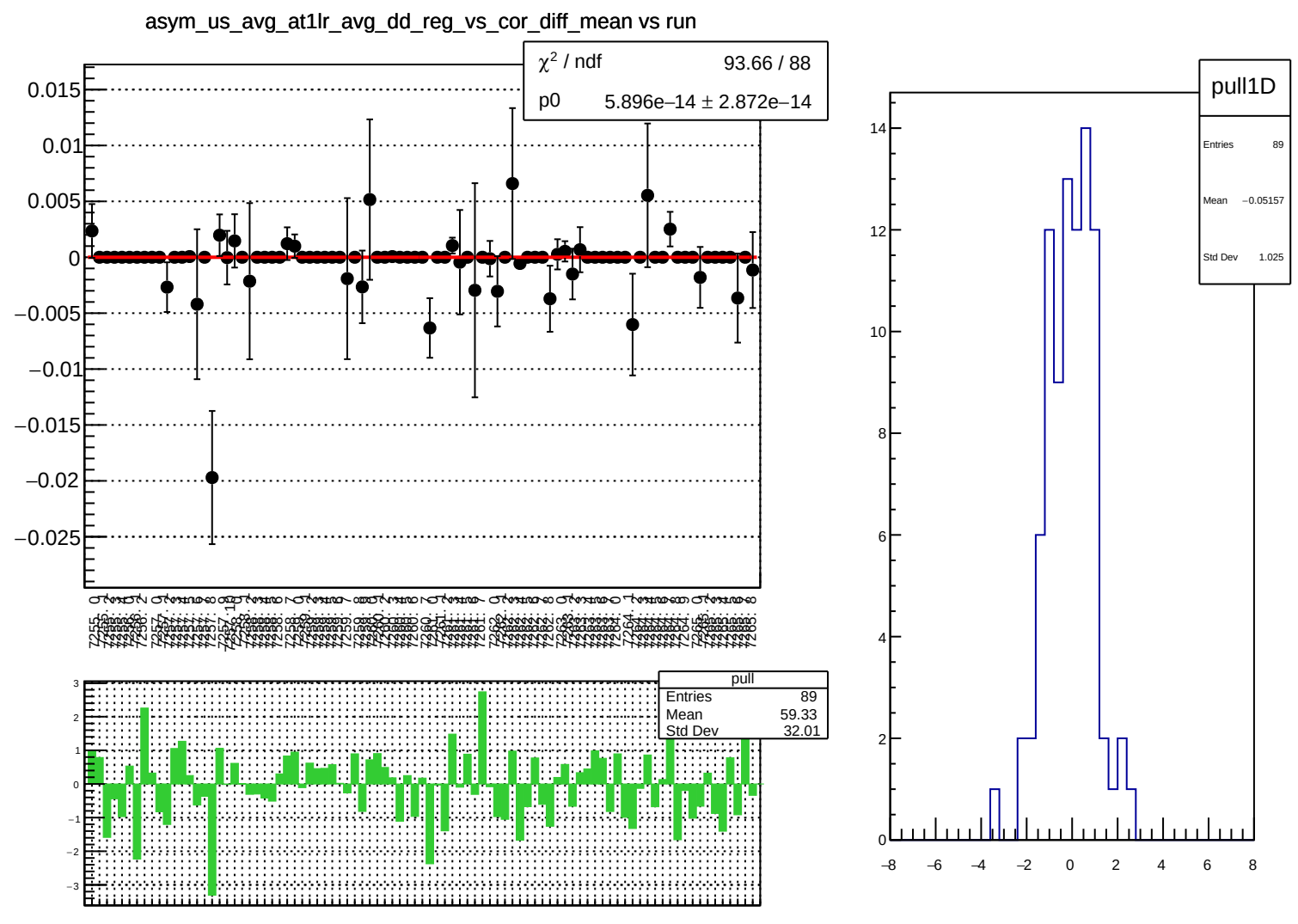

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 70.07 / 88
p0 1727 ± 1.326
1780
1760
1740
1720
1700
1680

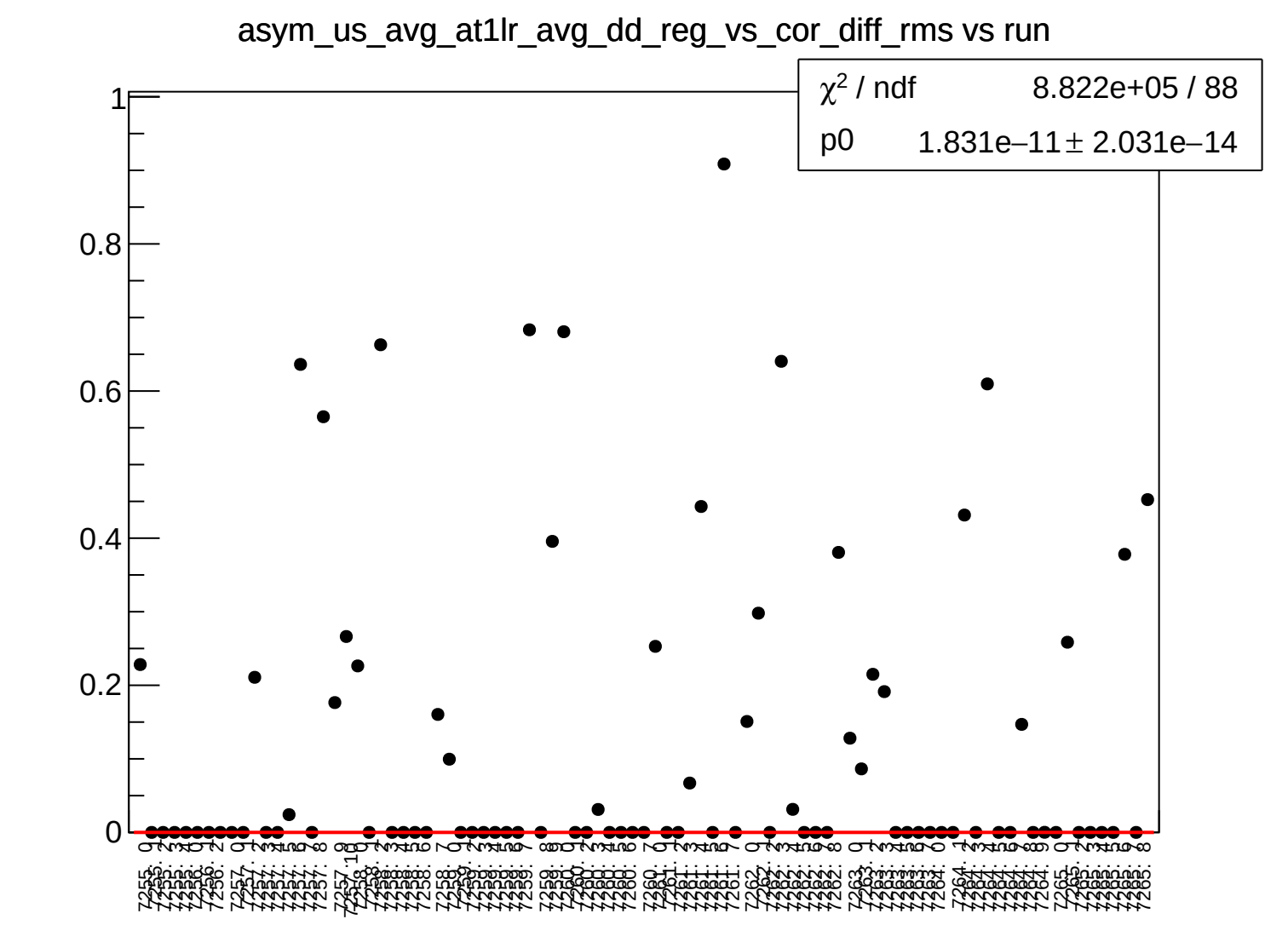

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.1 / 88
p0 728.1 ± 961.7
pull
Entries 89
Mean 674.9
Std Dev 0
pull1D
Entries 89
Mean −0.007032
Std Dev 0.9893

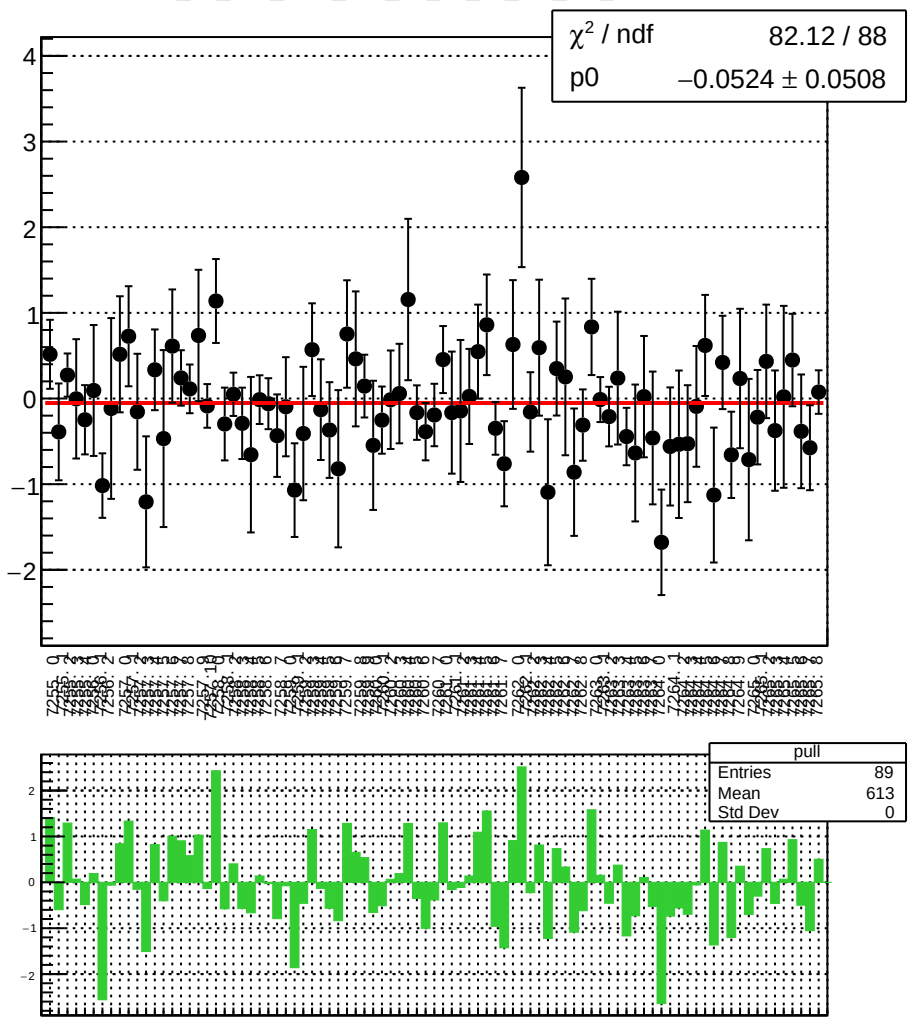

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 9350 / 88
p0 882.9 ± 0.68
1050
1000
950
900
850
800
750

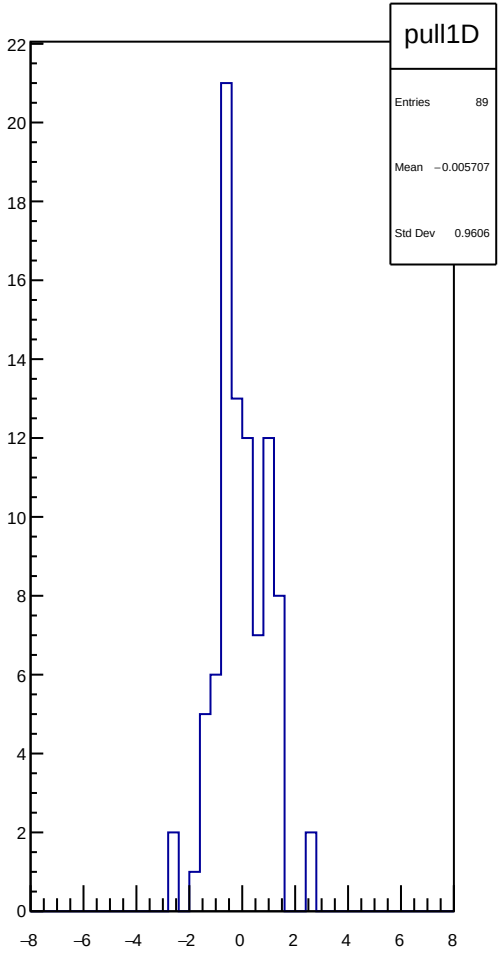

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 75.19 / 88
p0 −2073 ± 2104
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 129.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.01374
Std Dev 0.9191
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

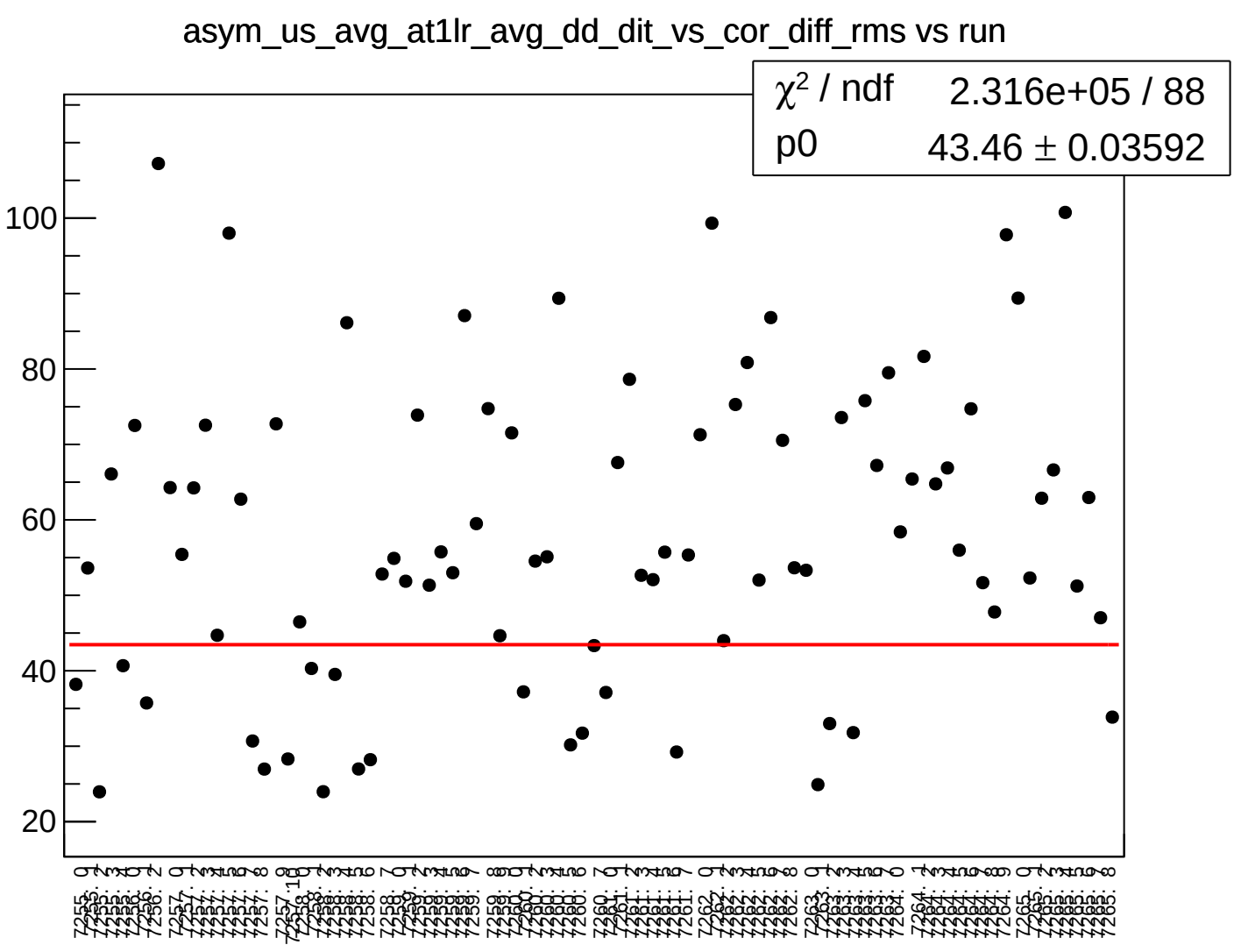

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 385.4 / 88
p0 1937 ± 1.488
2050
2000
1950
1900
1850

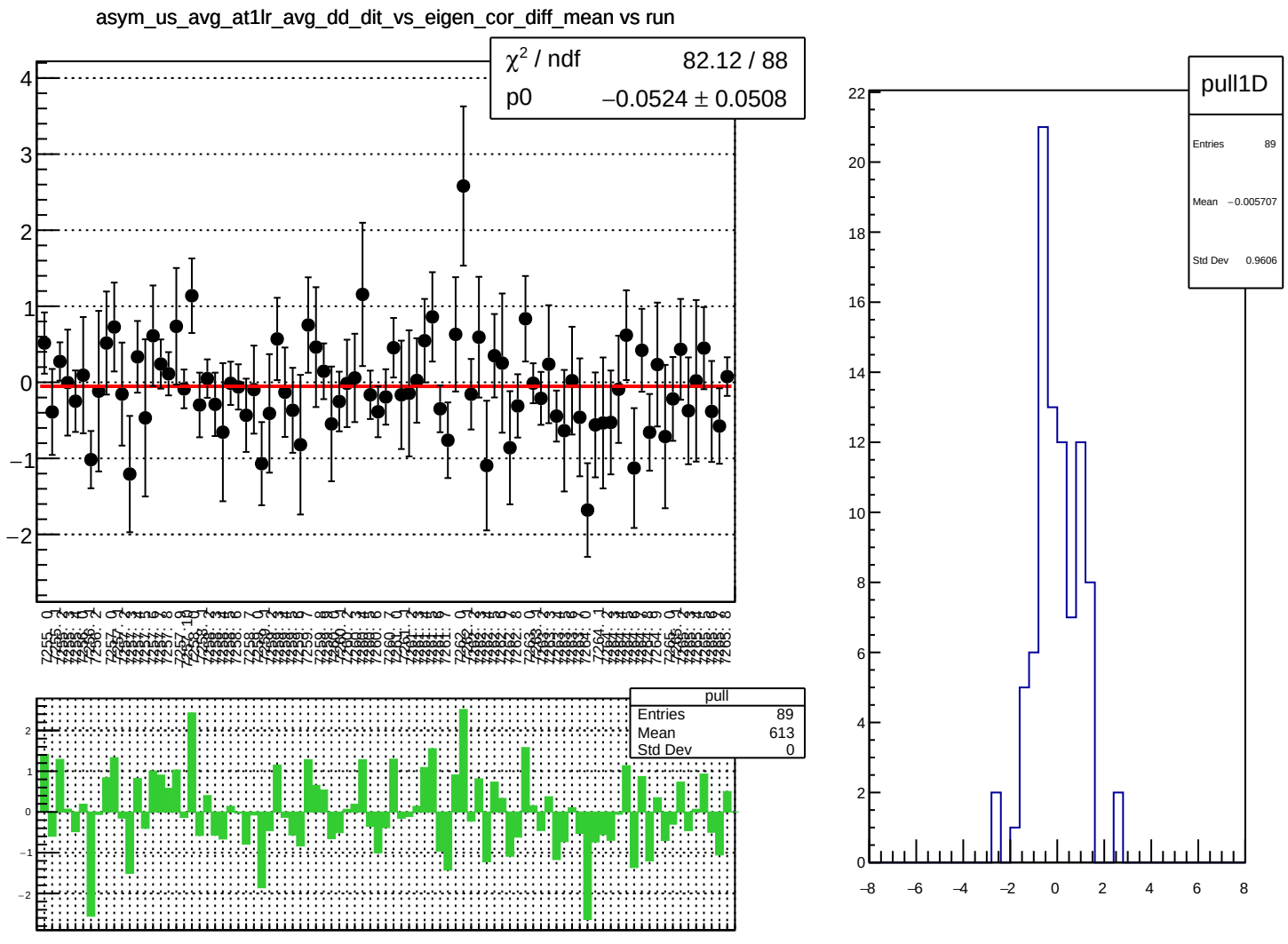

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.66 / 88
p0 5.896e−14 ± 2.872e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 89
Mean 59.33
Std Dev 32.01
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.05157
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

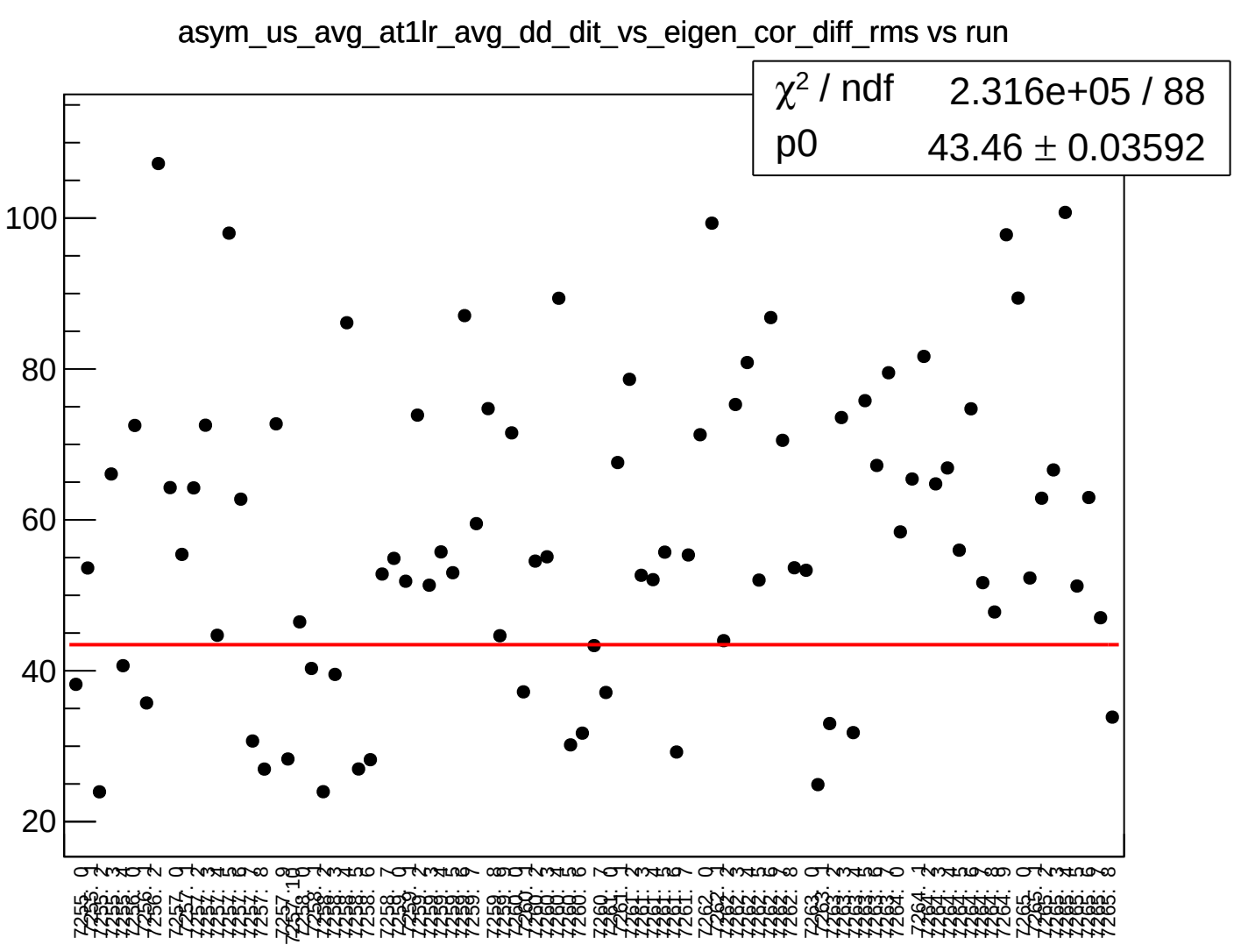

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.822e+05 / 88
p0 1.831e−11 ± 2.031e−14
1
0.8
0.6
0.4
0.2
0

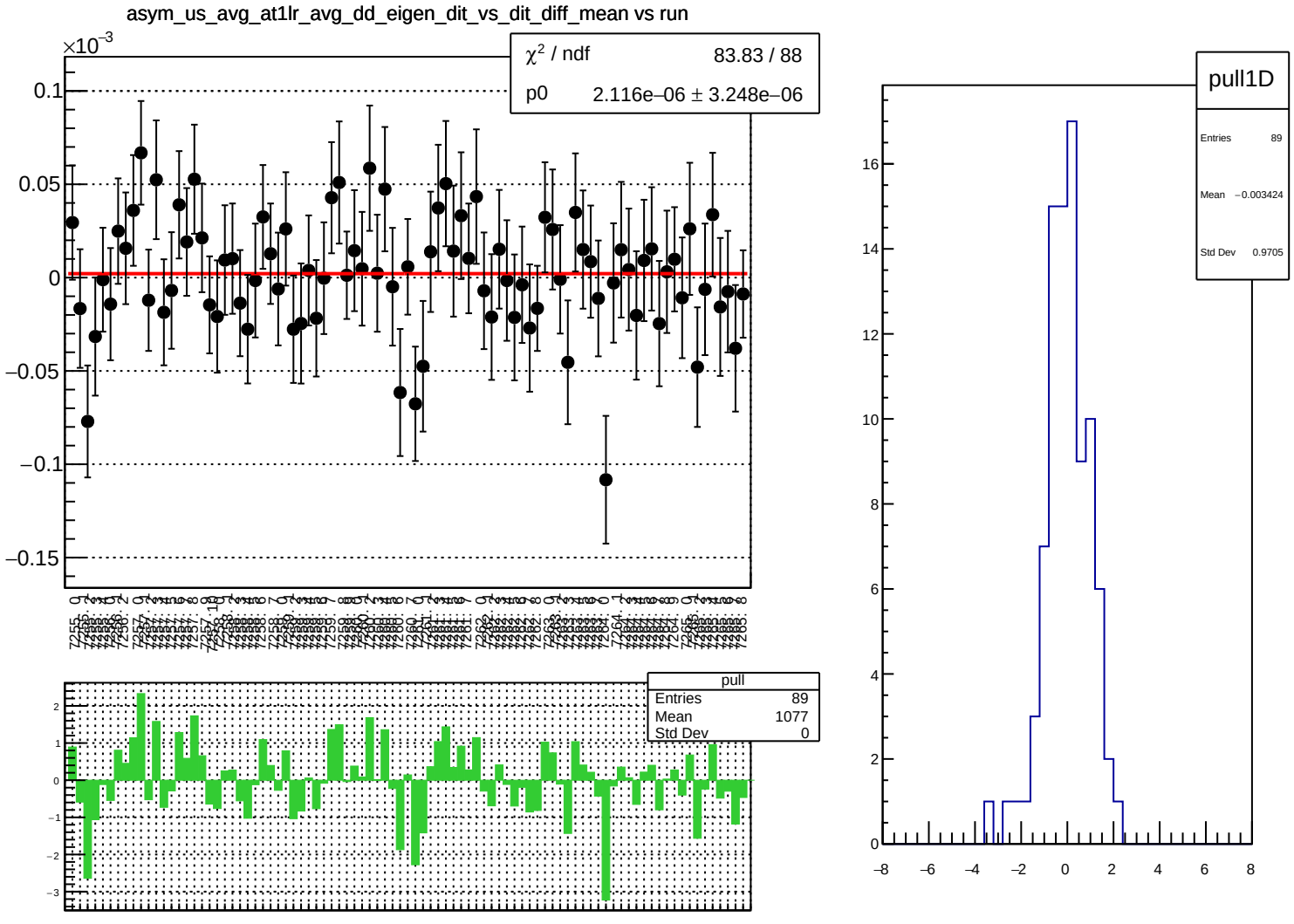

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.12 / 88
p0 −0.0524 ± 0.0508
pull
Entries 89
Mean 613
Std Dev 0

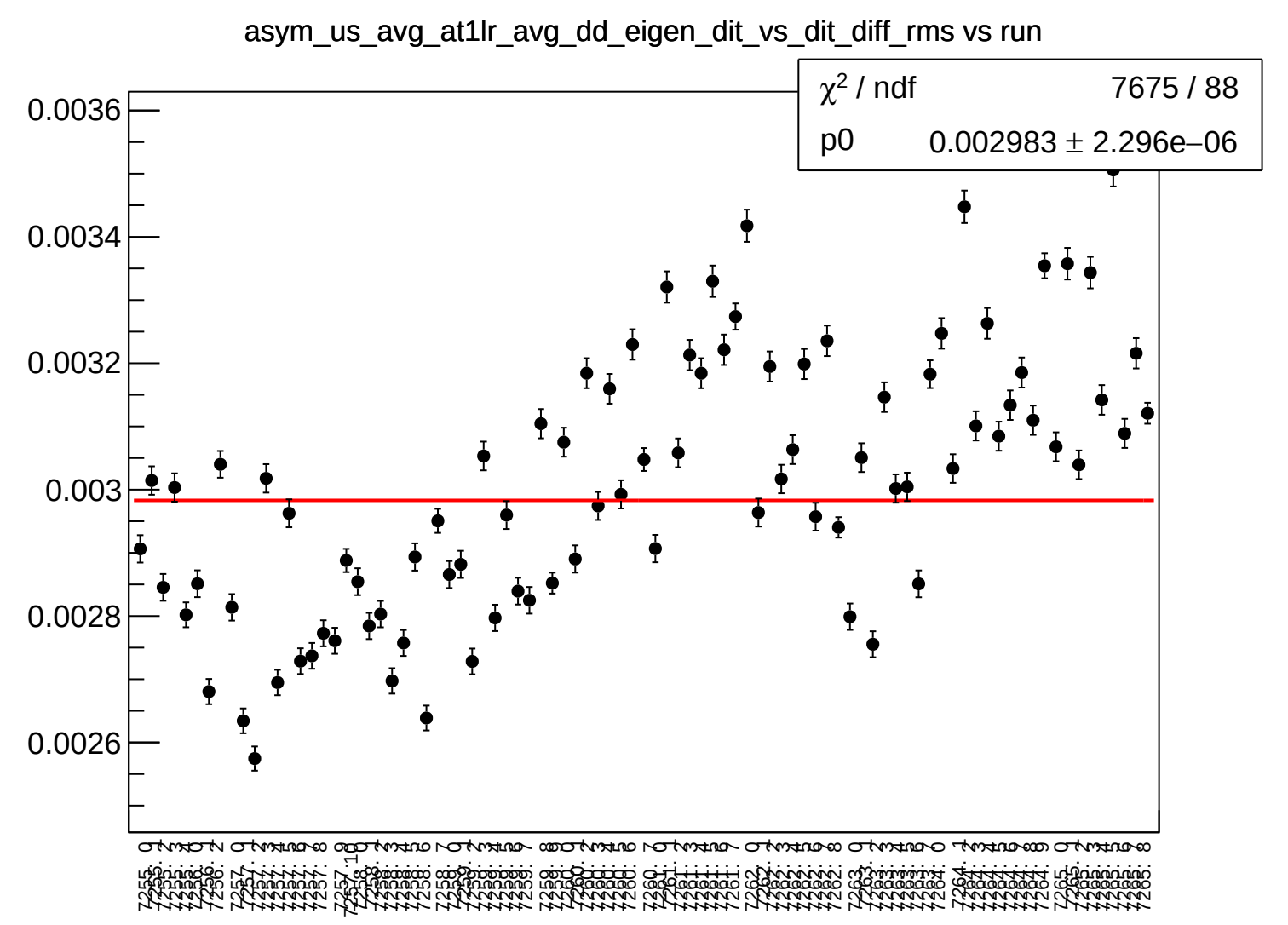

pull1D
Entries 89
Mean −0.005707
Std Dev 0.9606

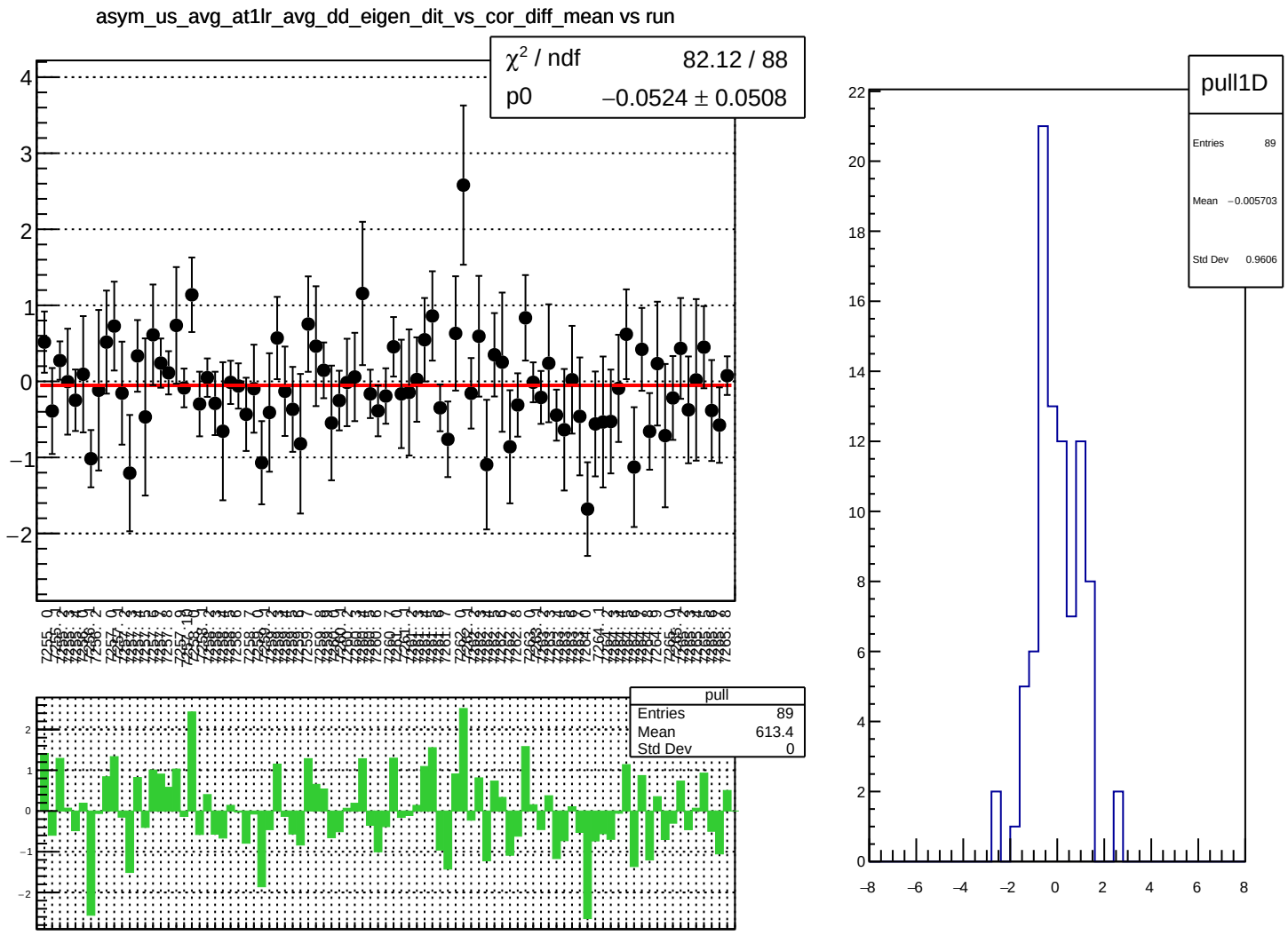

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.316e+05 / 88
p0 43.46 ± 0.03592
100
80
60
40
20

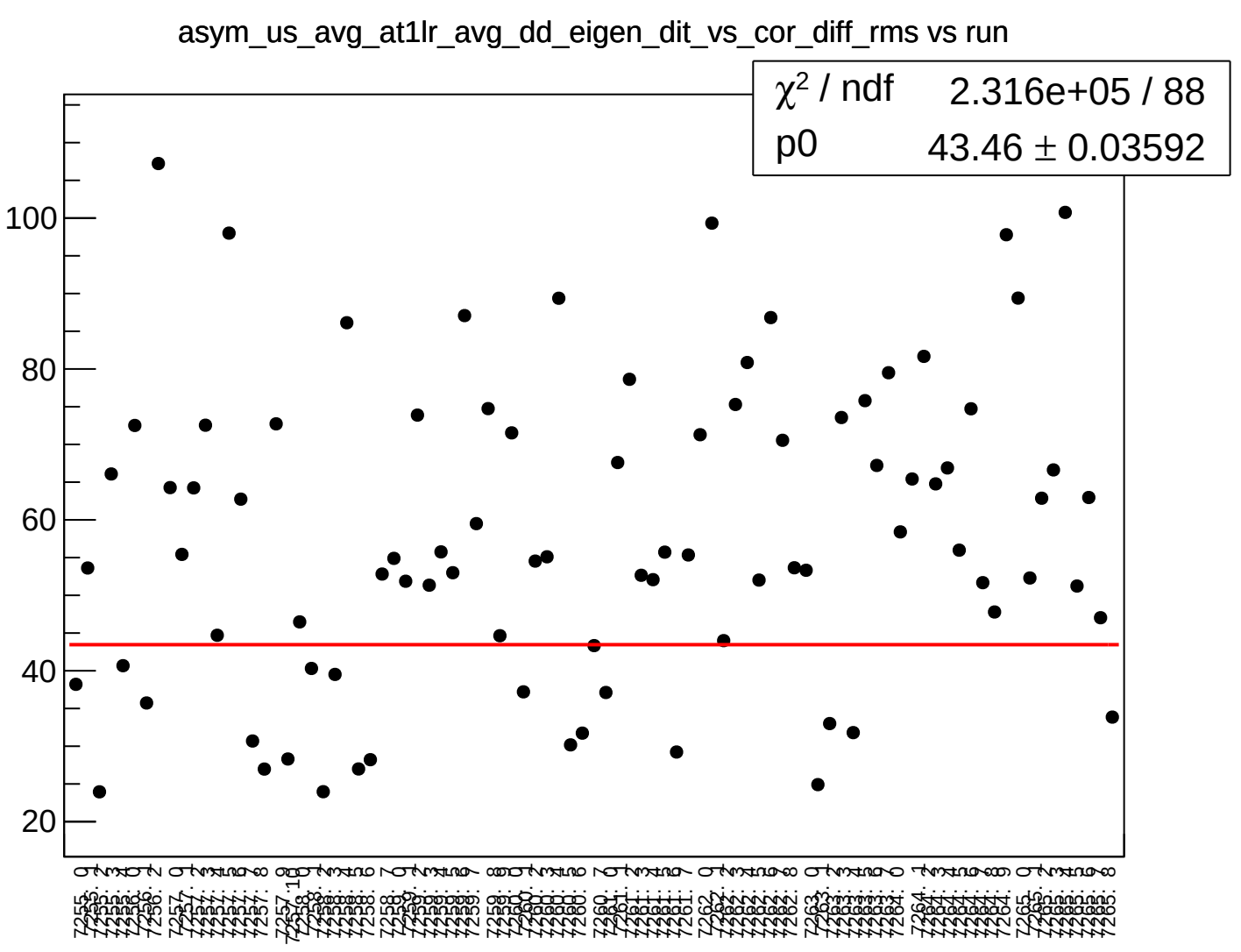

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.12 / 88
p0 −0.0524 ± 0.0508
pull
Entries 89
Mean 613
Std Dev 0
pull1D
Entries 89
Mean −0.005707
Std Dev 0.9606

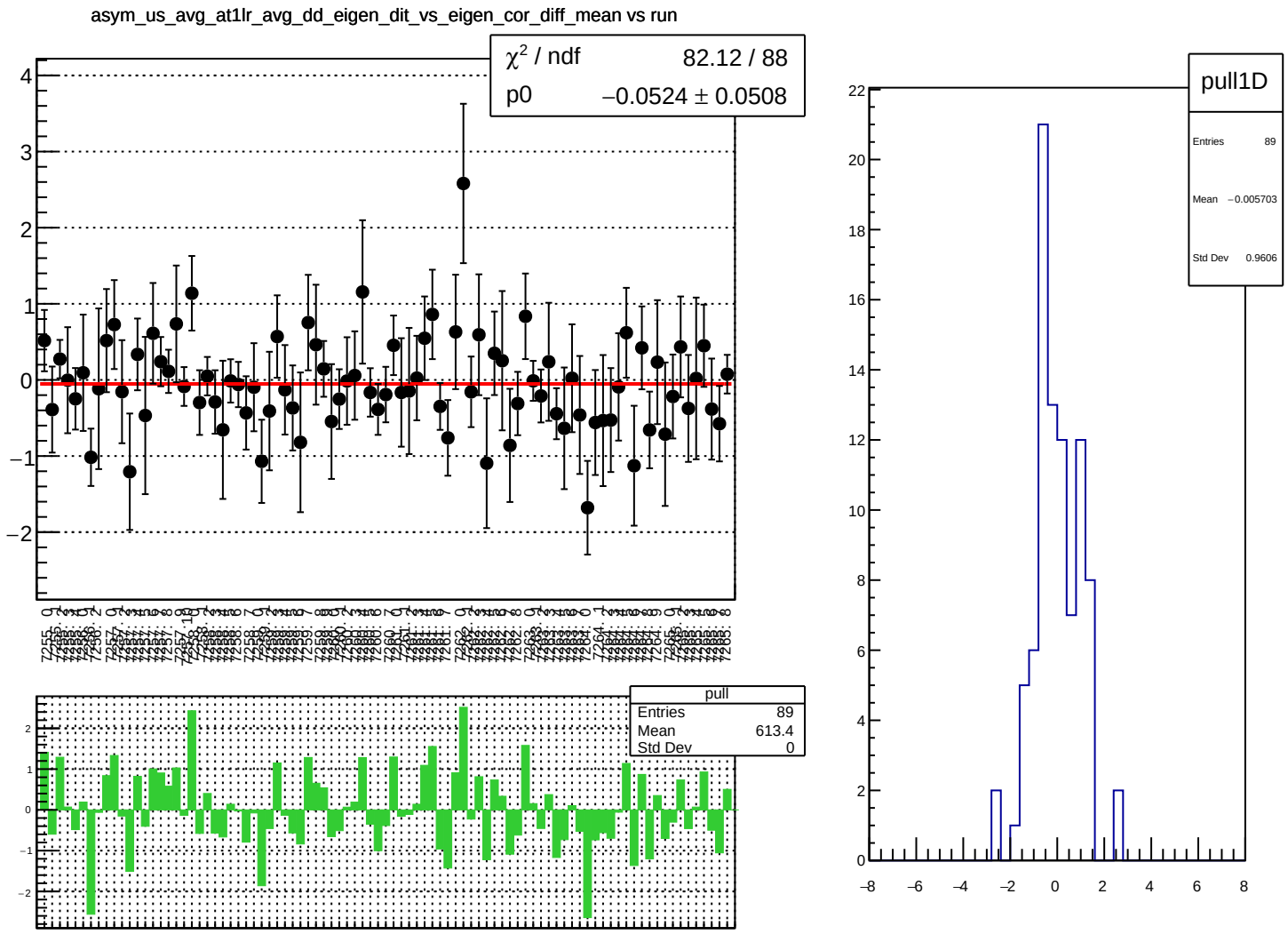

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.316e+05 / 88
p0 43.46 ± 0.03592
100
80
60
40
20

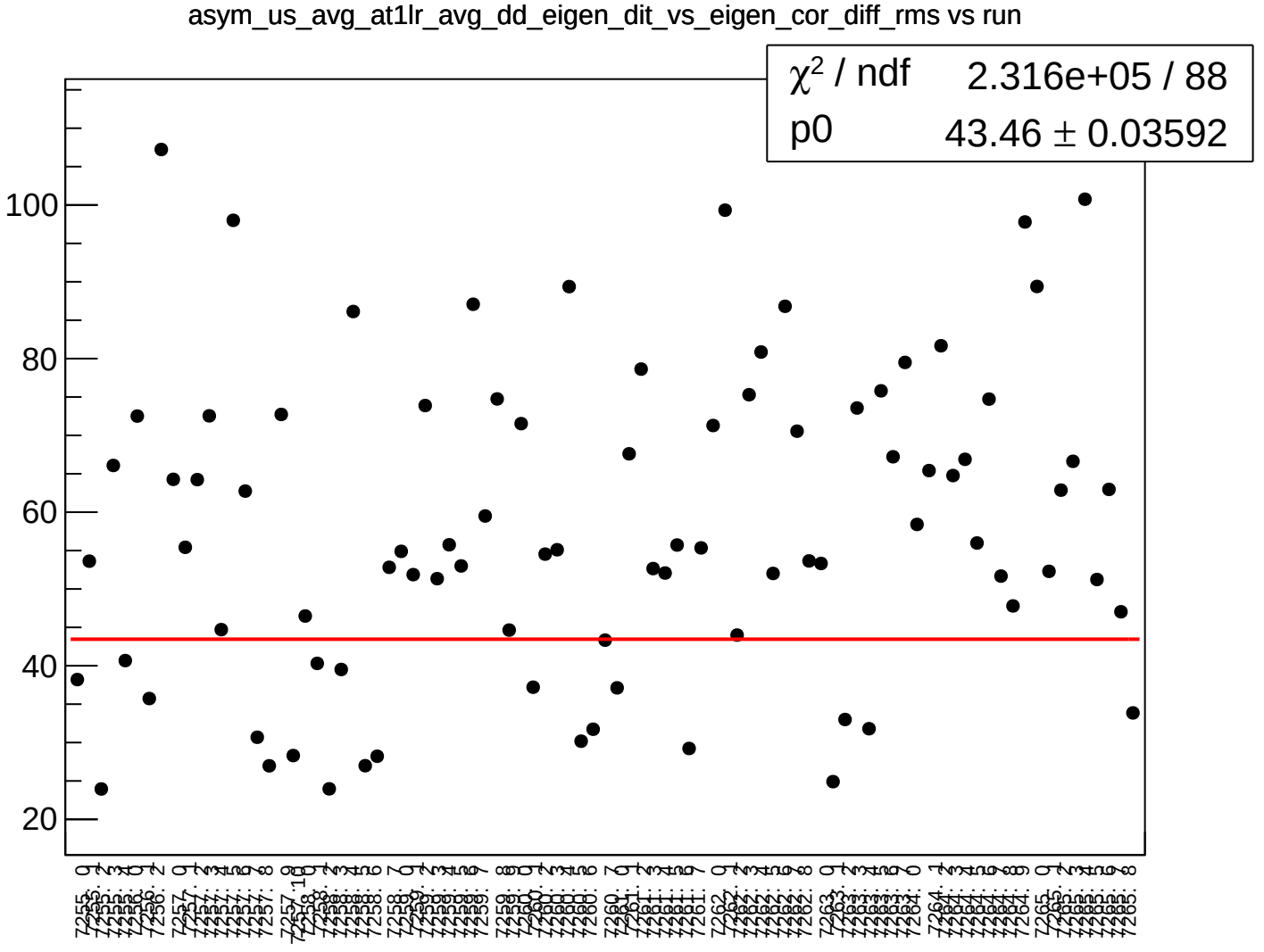

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.83 / 88
p0 2.116e−06 ± 3.248e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean 1077
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.003424
Std Dev 0.9705
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

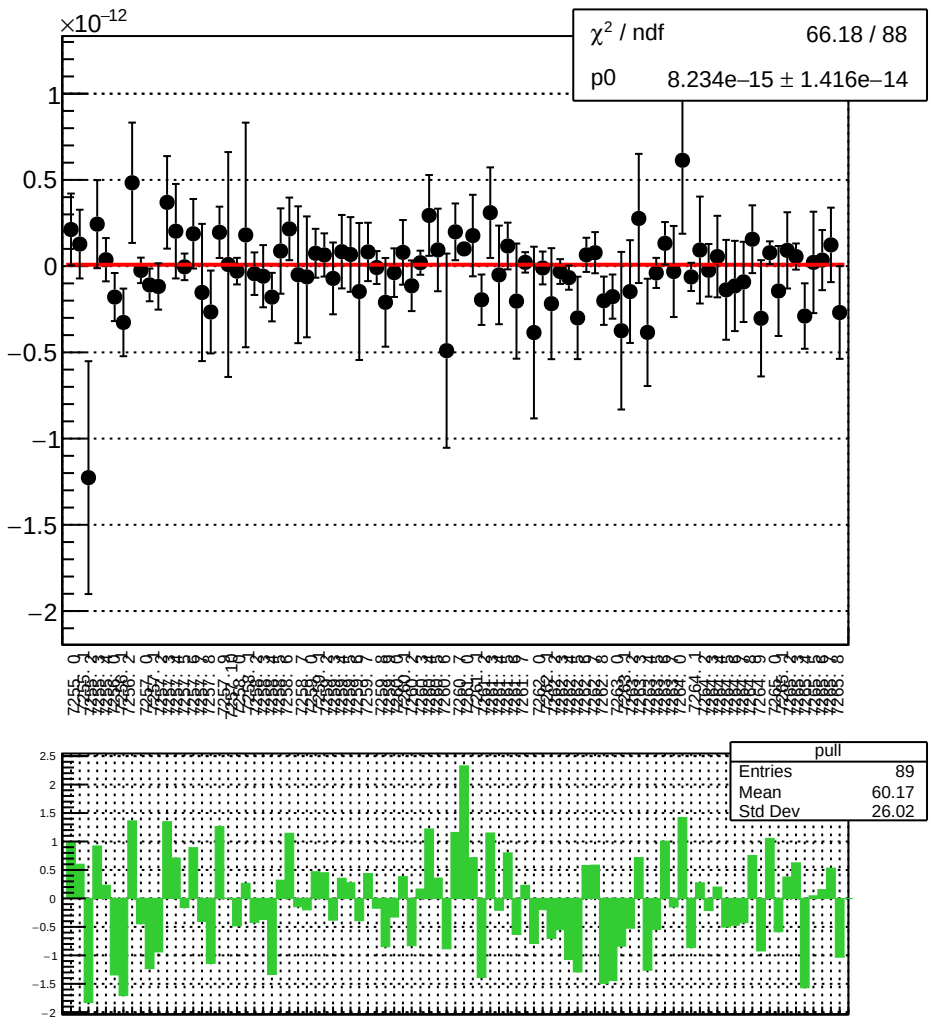

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7675 / 88
p0 0.002983 ± 2.296e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

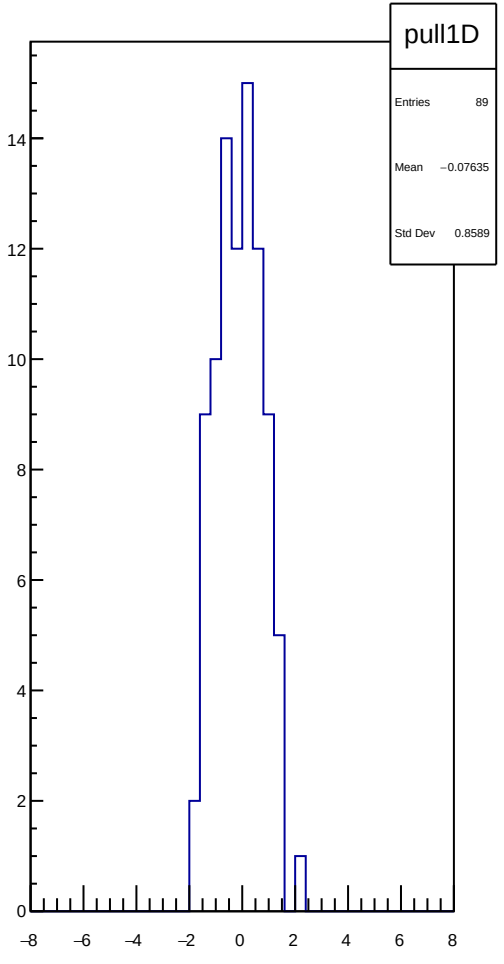

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.12 / 88
p0 −0.0524 ± 0.0508
pull
Entries 89
Mean 613.4
Std Dev 0
pull1D
Entries 89
Mean −0.005703
Std Dev 0.9606

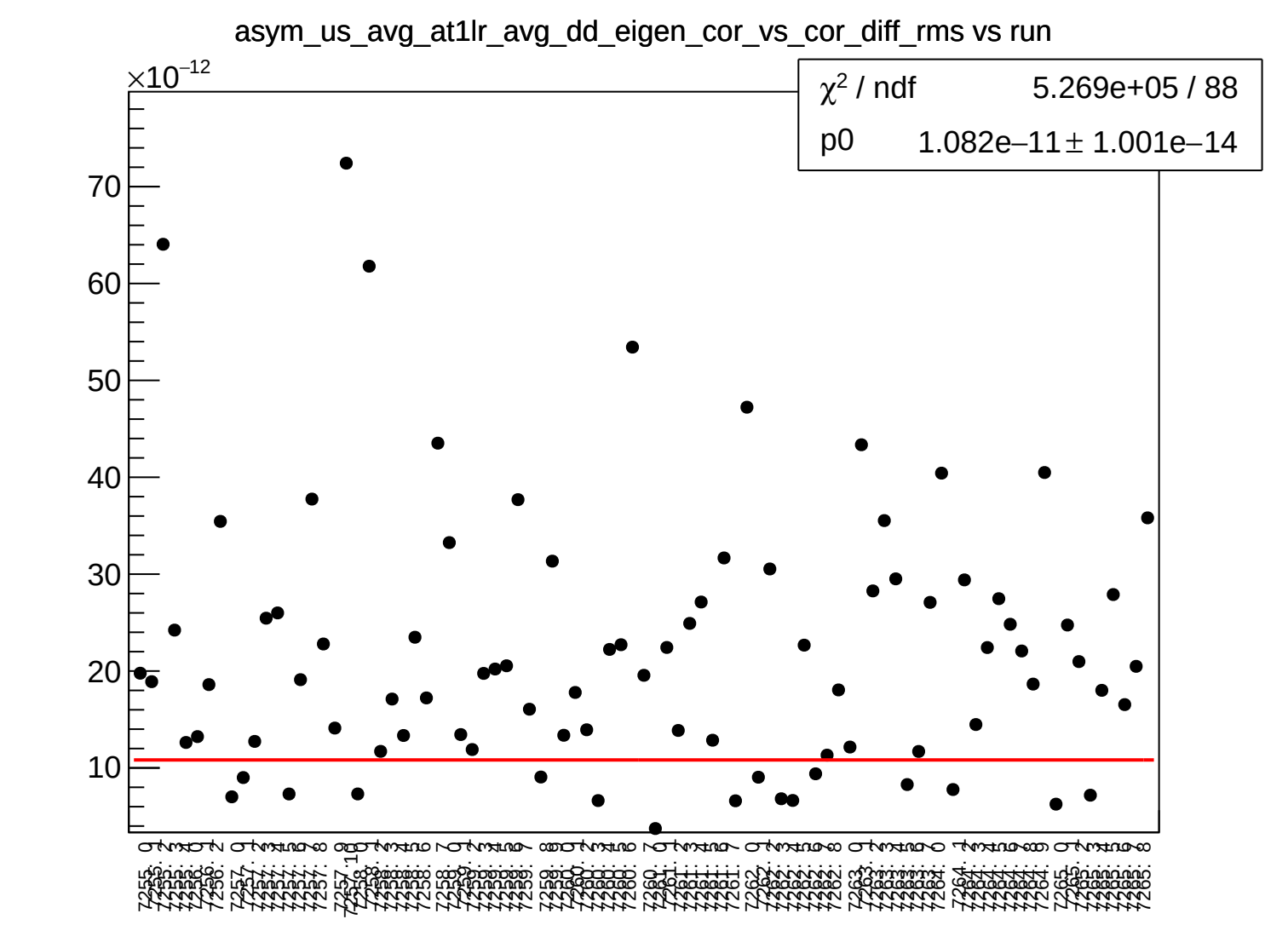

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.316e+05 / 88
p0 43.46 ± 0.03592
100
80
60
40
20

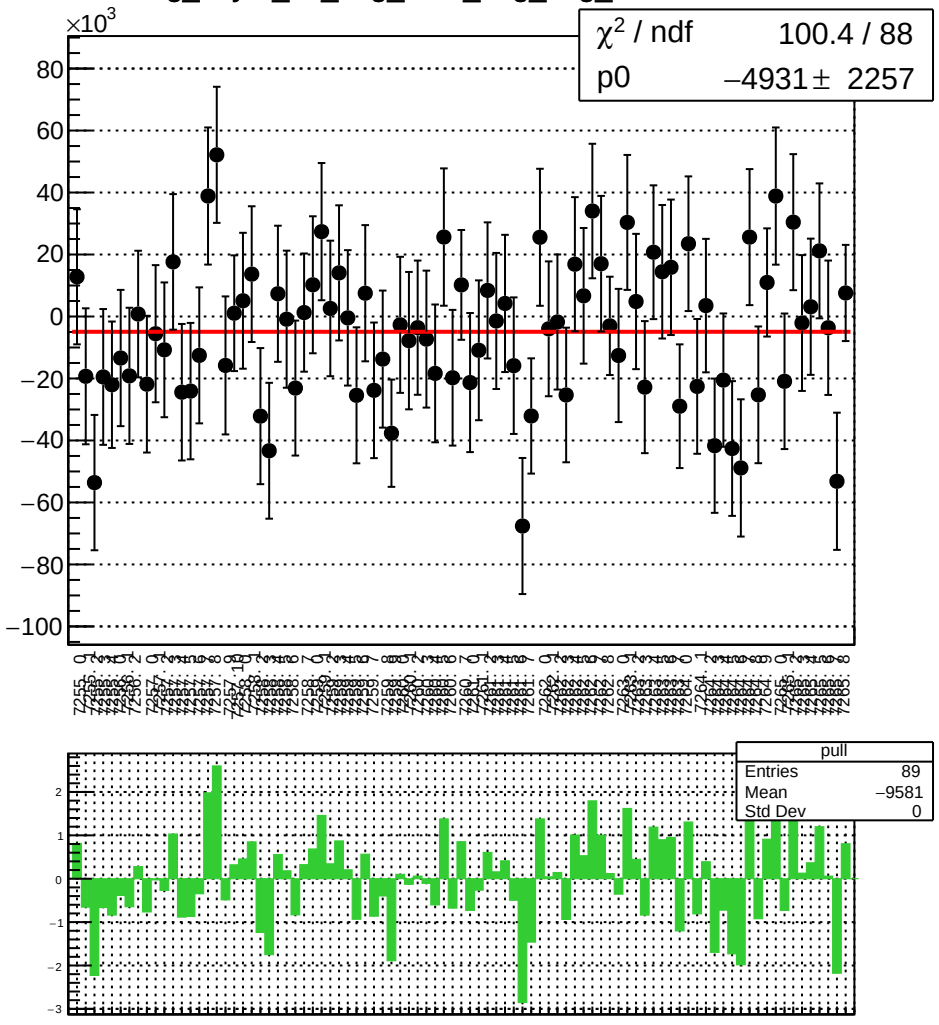

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.12 / 88
p0 −0.0524 ± 0.0508
pull
Entries 89
Mean 613.4
Std Dev 0
pull1D
Entries 89
Mean −0.005703
Std Dev 0.9606

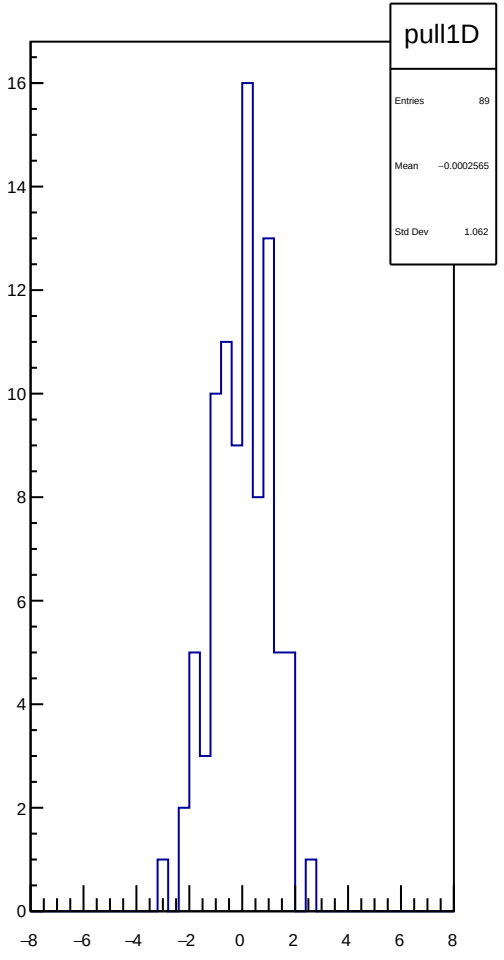

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.316e+05 / 88
p0 43.46 ± 0.03592
100
80
60
40
20

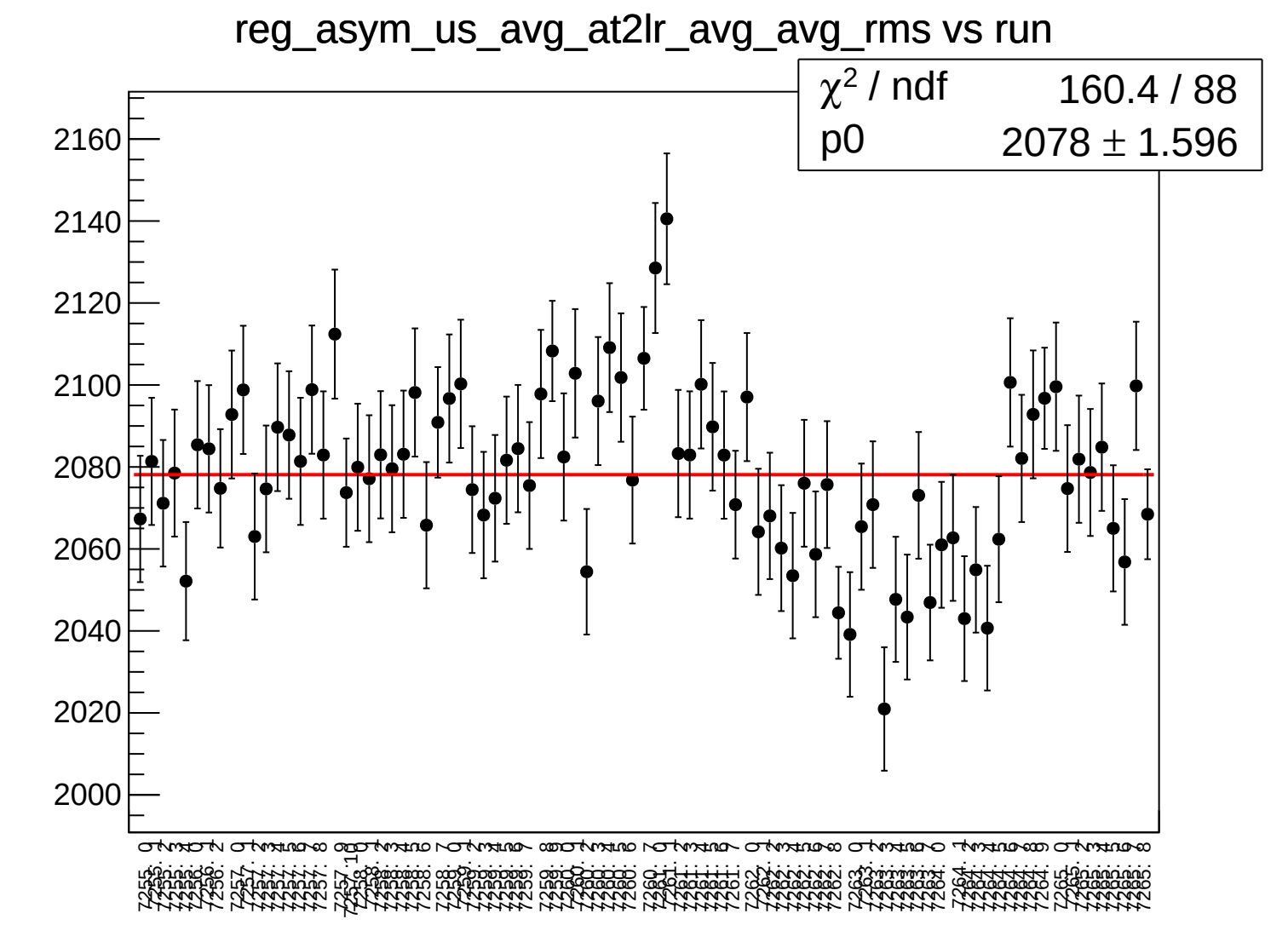

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.18 / 88
p0 8.234e−15 ± 1.416e−14
pull
Entries 89
Mean 60.17
Std Dev 26.02

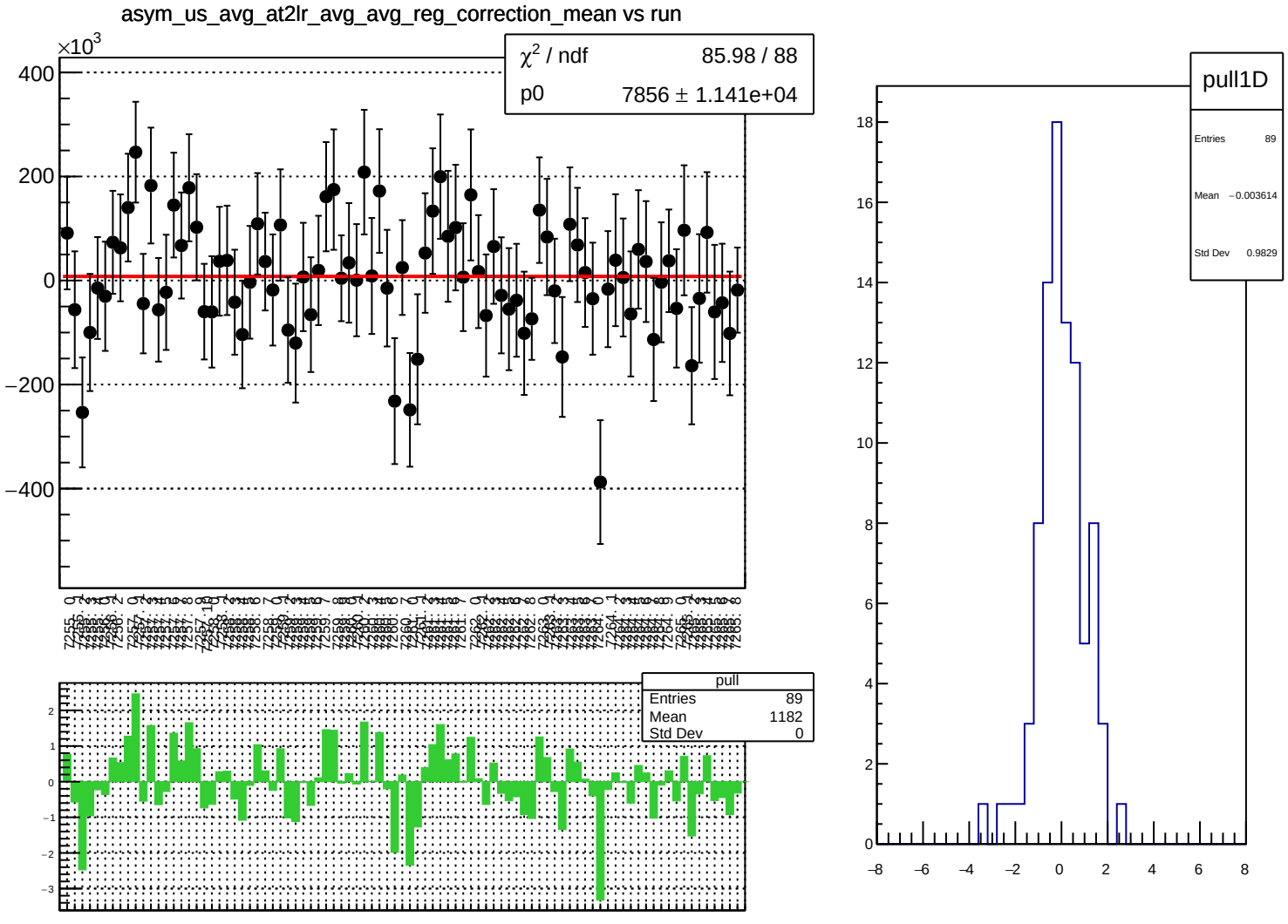

pull1D
Entries 89
Mean −0.07635
Std Dev 0.8589

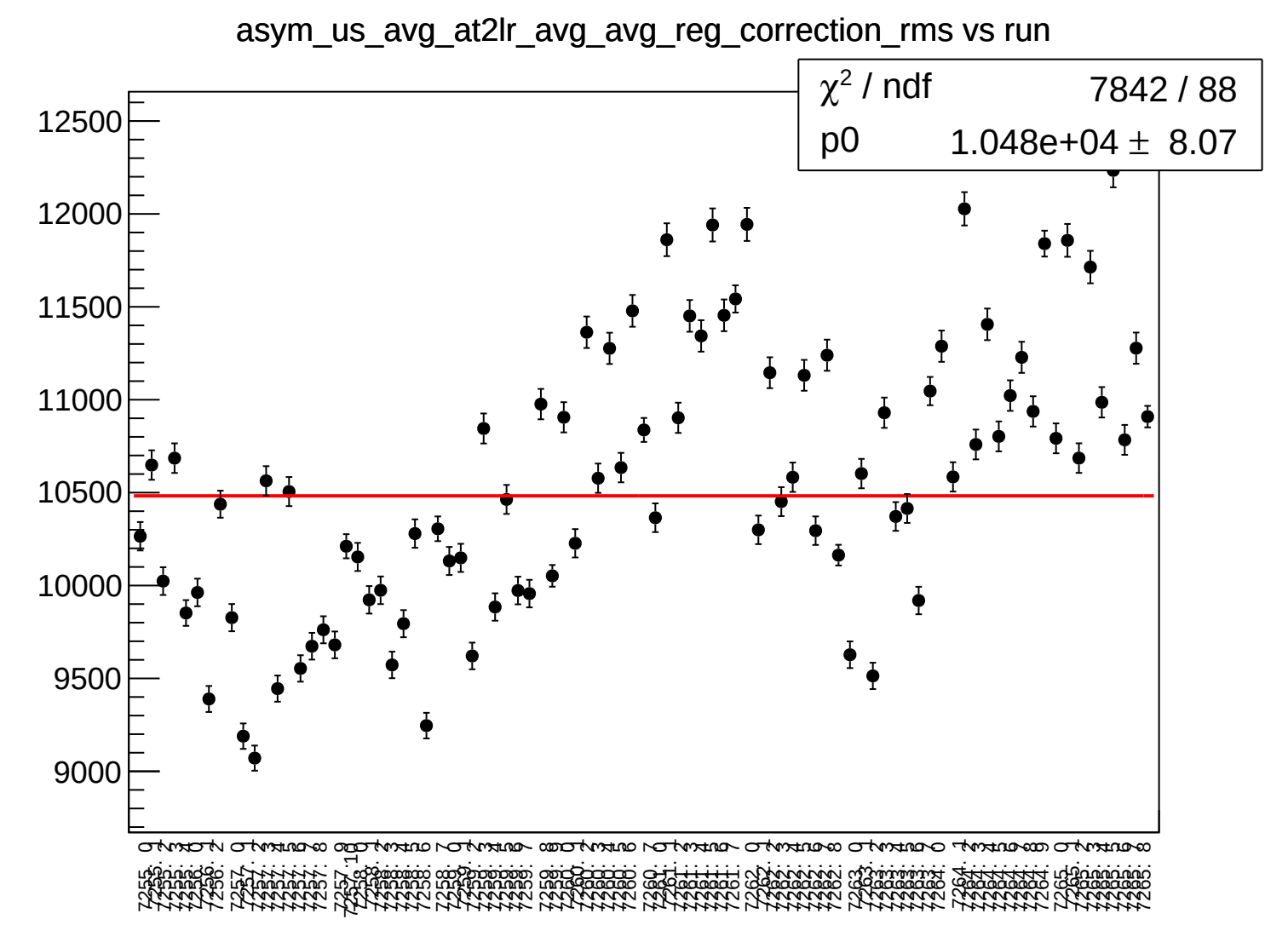

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.269e+05 / 88
p0 1.082e−11 ± 1.001e−14
70
60
50
40
30
20
10

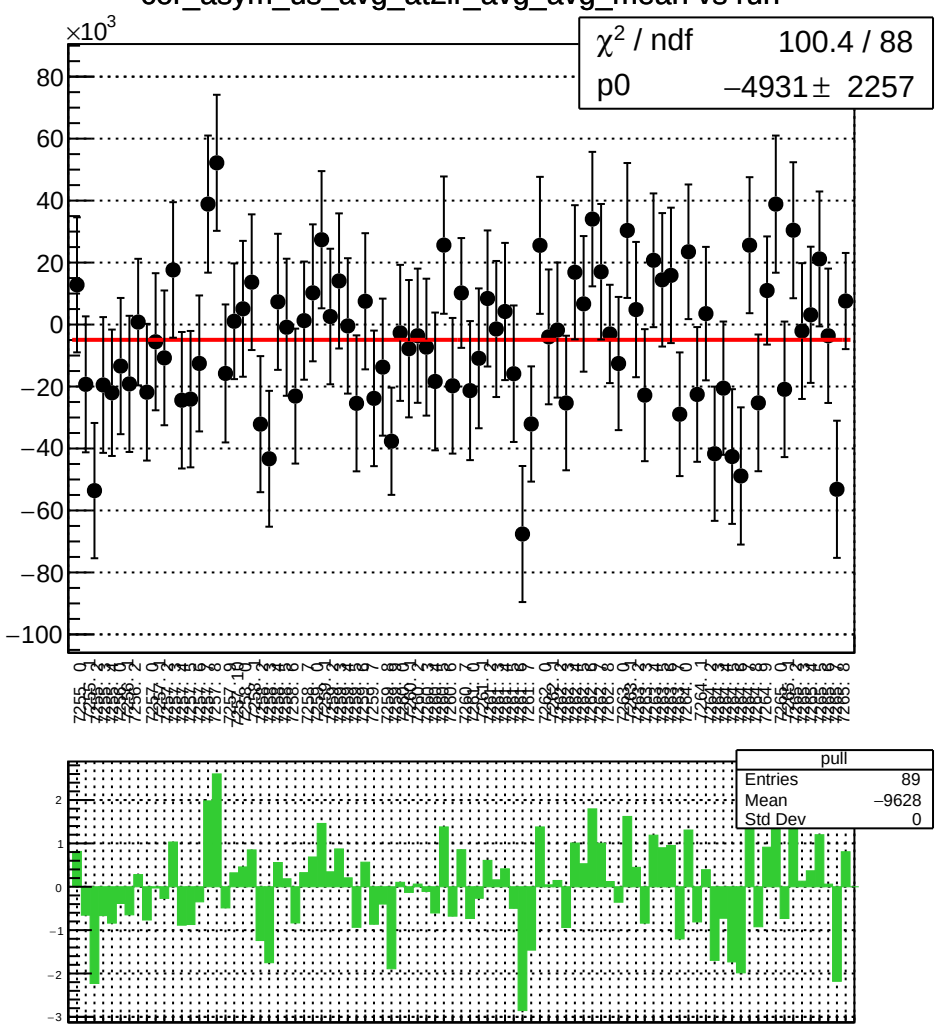

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 100.4 / 88
p0 −4931 ± 2257
pull
Entries 89
Mean −9581
Std Dev 0

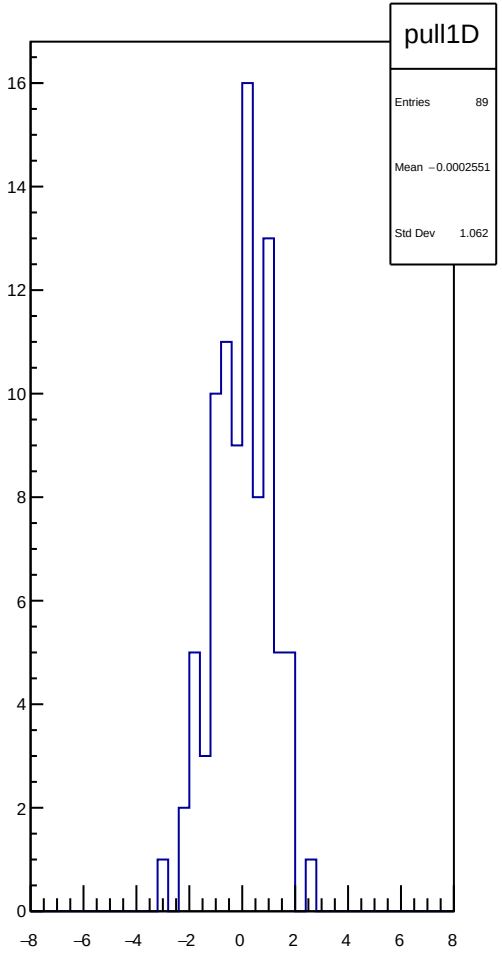

pull1D
Entries 89
Mean −0.0002565
Std Dev 1.062

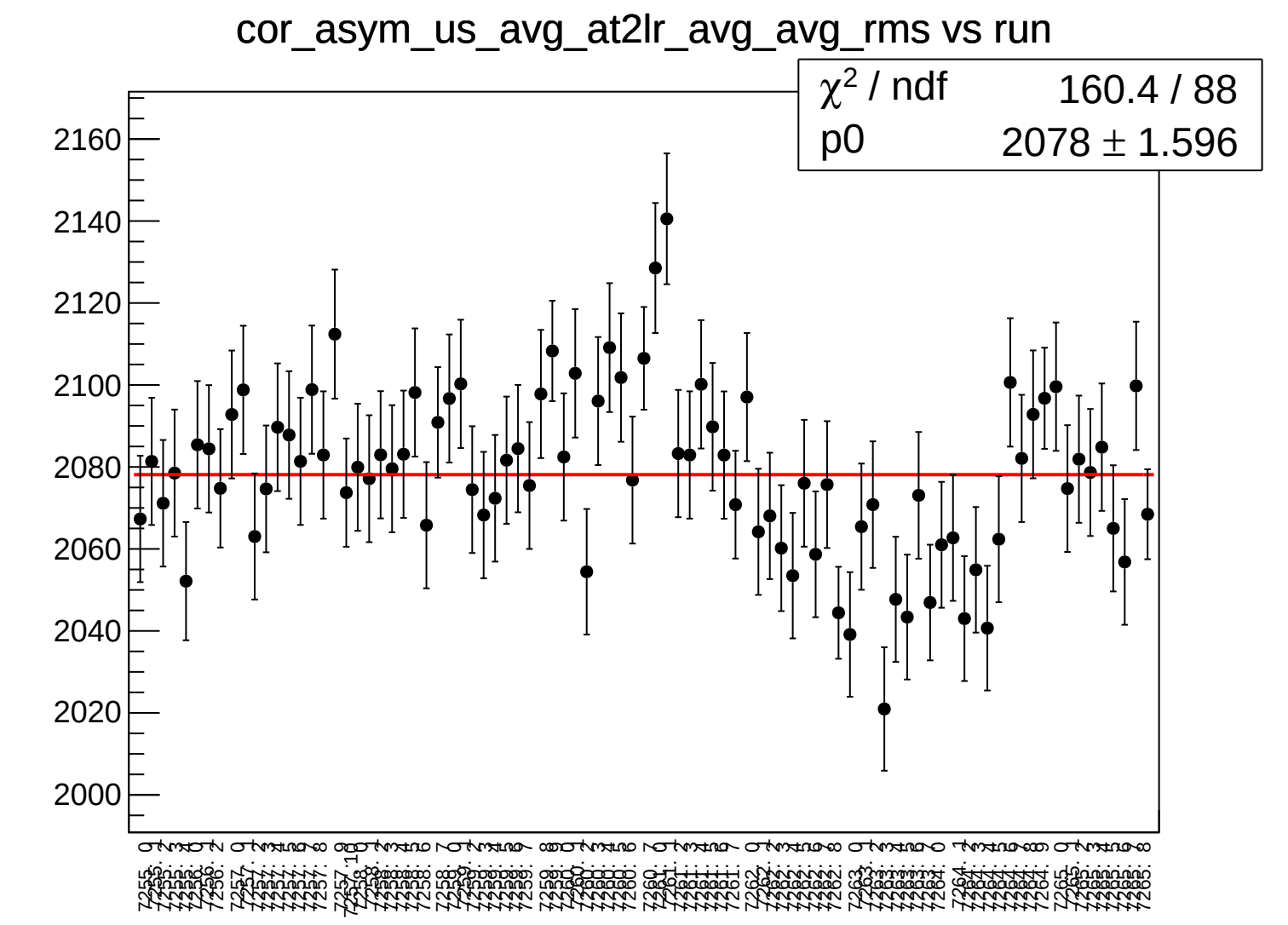

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 160.4 / 88
p0 2078 ± 1.596
2160
2140
2120
2100
2080
2060
2040
2020
2000

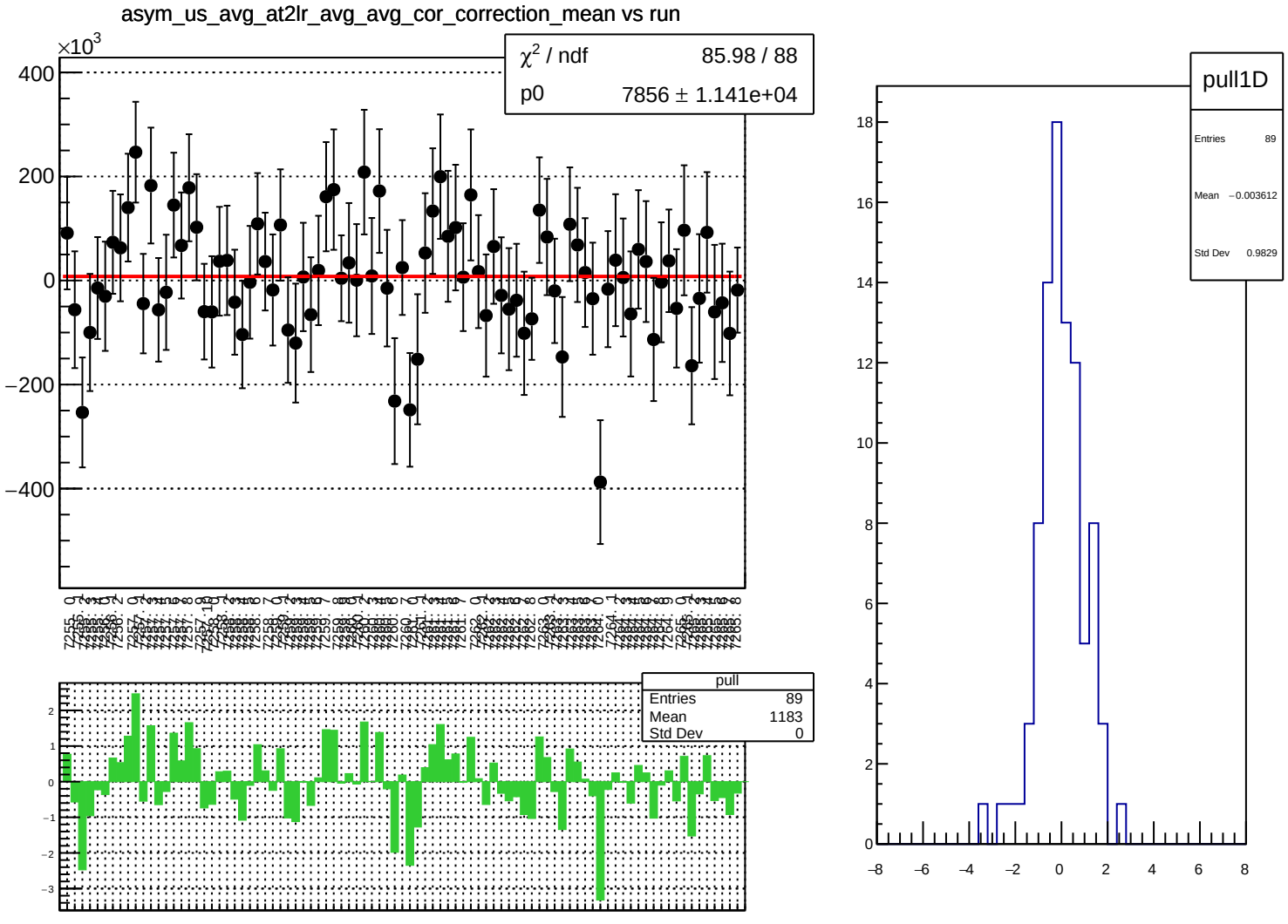

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
400
200
0
−200
−400
χ² / ndf 85.98 / 88
p0 7856 ± 1.141e+04
pull
Entries 89
Mean 1182
Std Dev 0
pull1D
Entries 89
Mean −0.003614
Std Dev 0.9829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

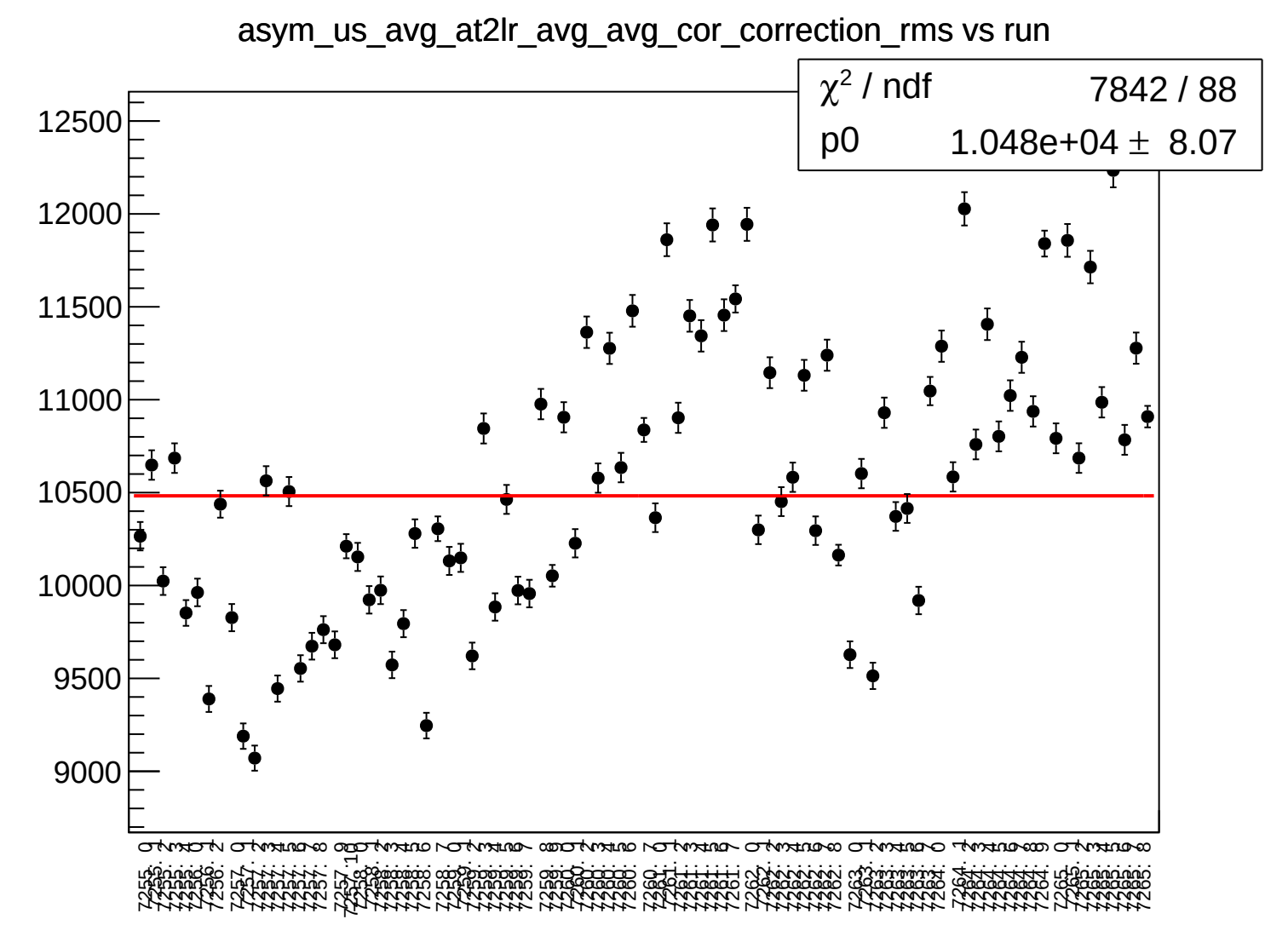

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ^2 / ndf 7842 / 88
p0 1.048e+04 ± 8.07
12500
12000
11500
11000
10500
10000
9500
9000

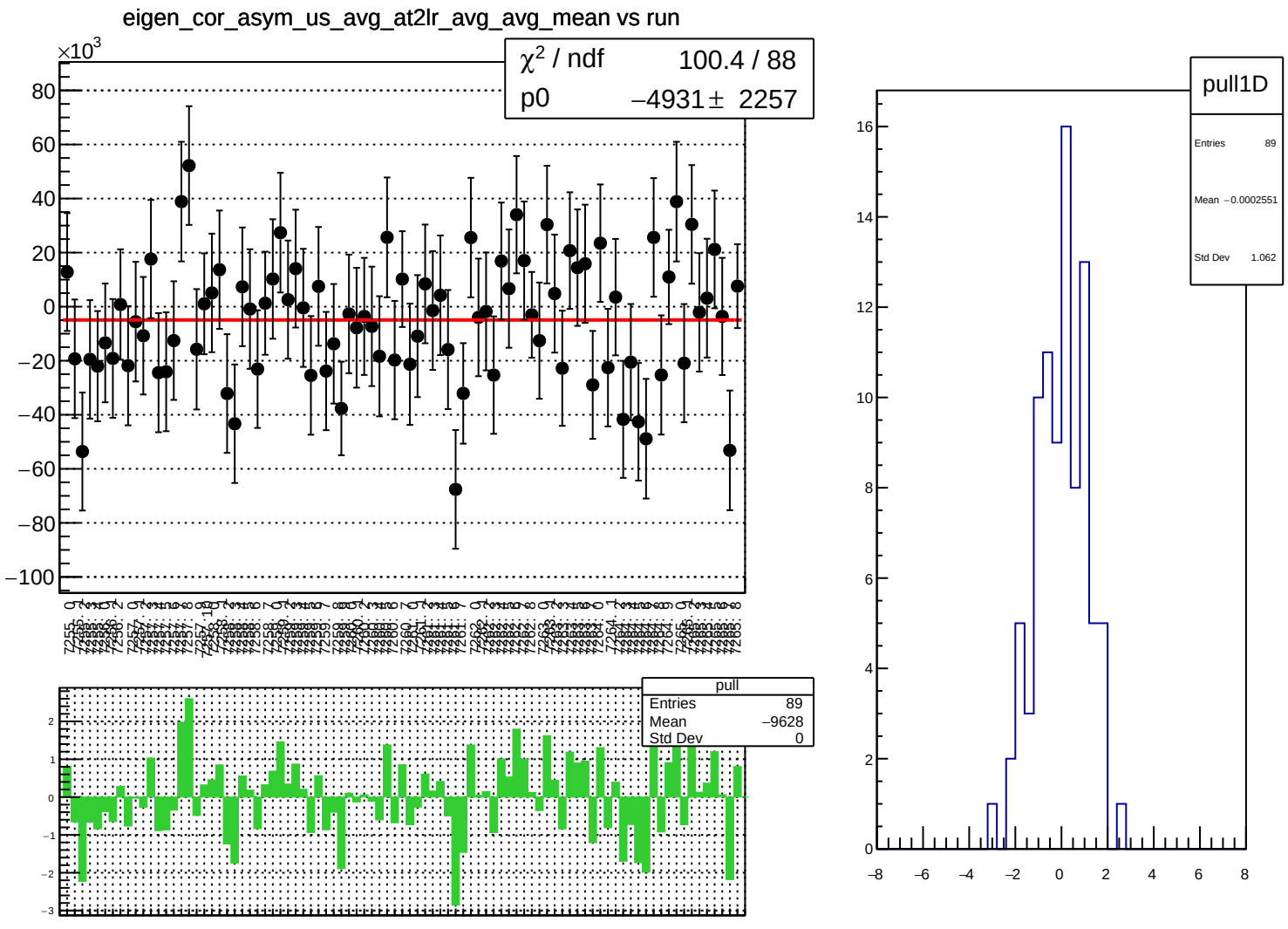

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 100.4 / 88
p0 −4931 ± 2257
pull
Entries 89
Mean −9628
Std Dev 0

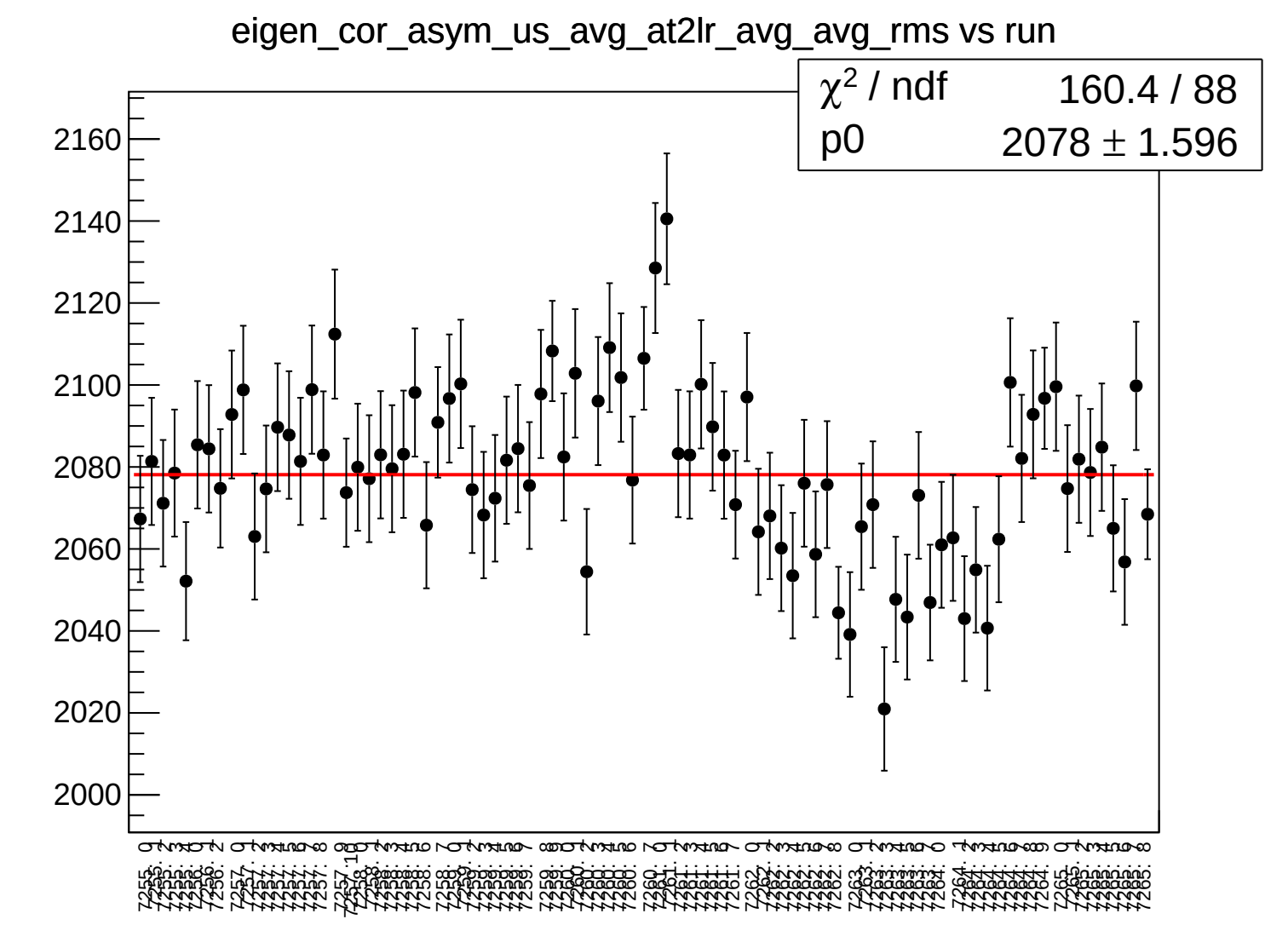

pull1D
Entries 89
Mean −0.0002551
Std Dev 1.062

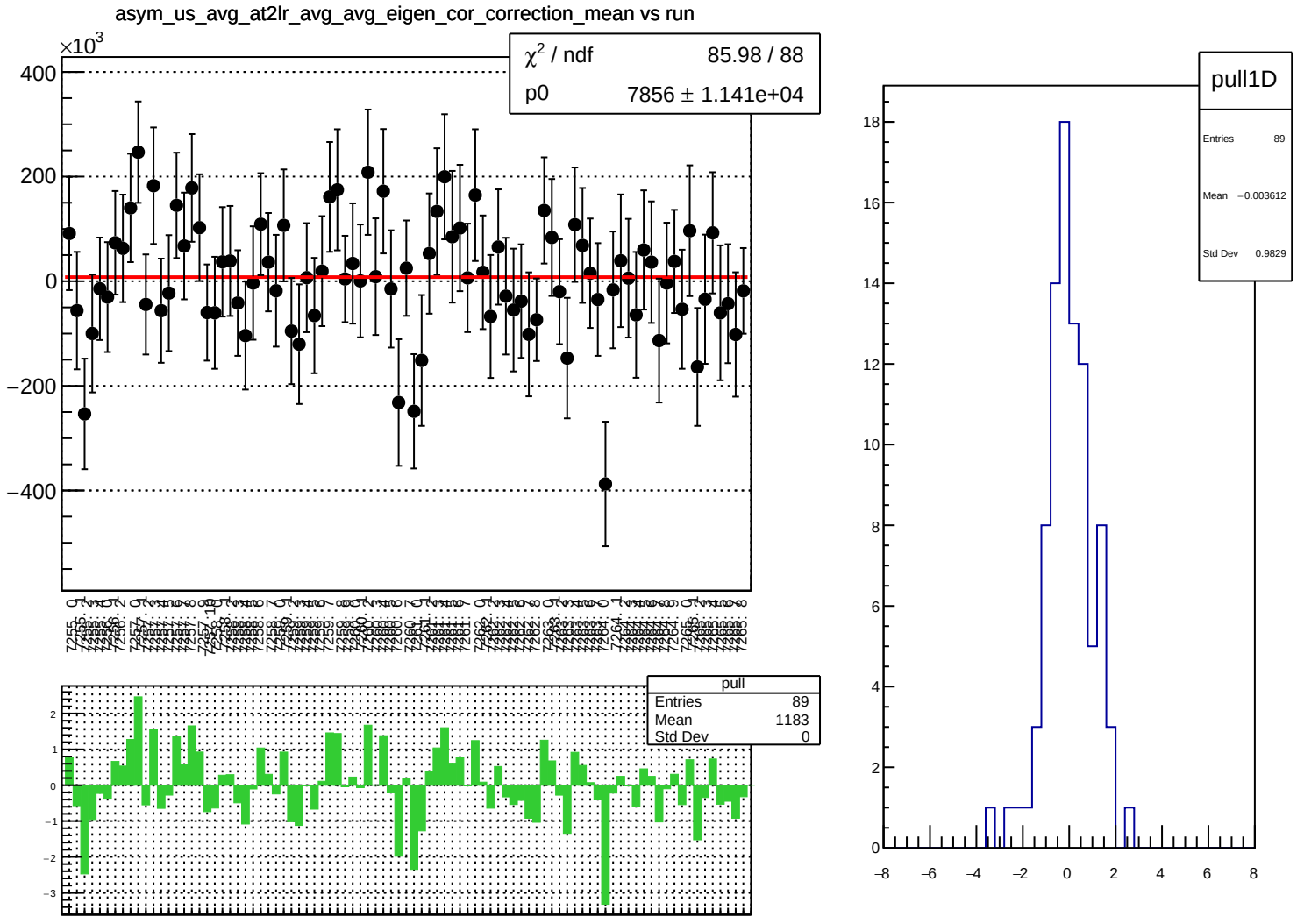

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 160.4 / 88
p0 2078 ± 1.596
2160
2140
2120
2100
2080
2060
2040
2020
2000

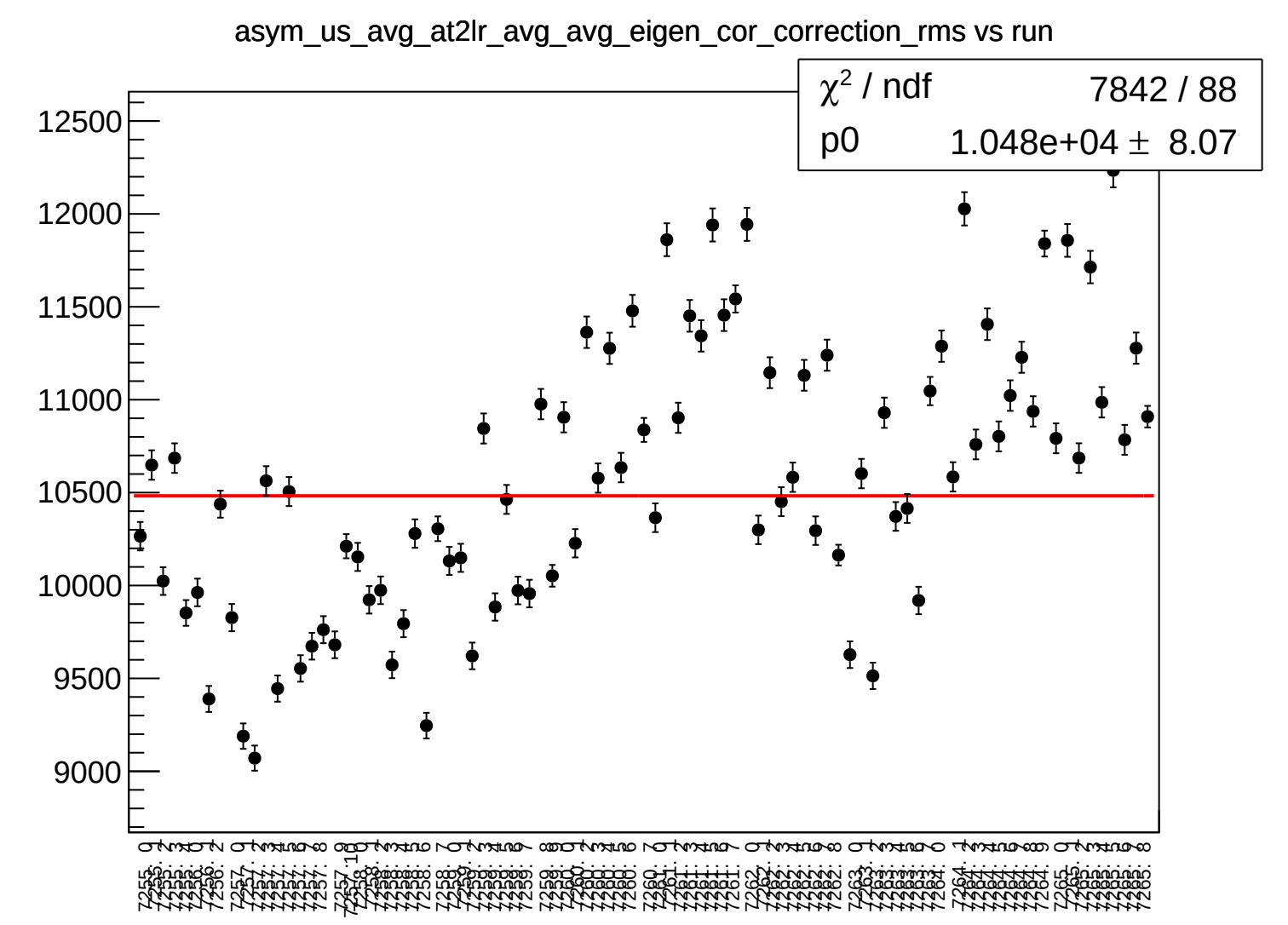

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
400
200
0
−200
−400
χ² / ndf 85.98 / 88
p0 7856 ± 1.141e+04
pull
Entries 89
Mean 1183
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.003612
Std Dev 0.9829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

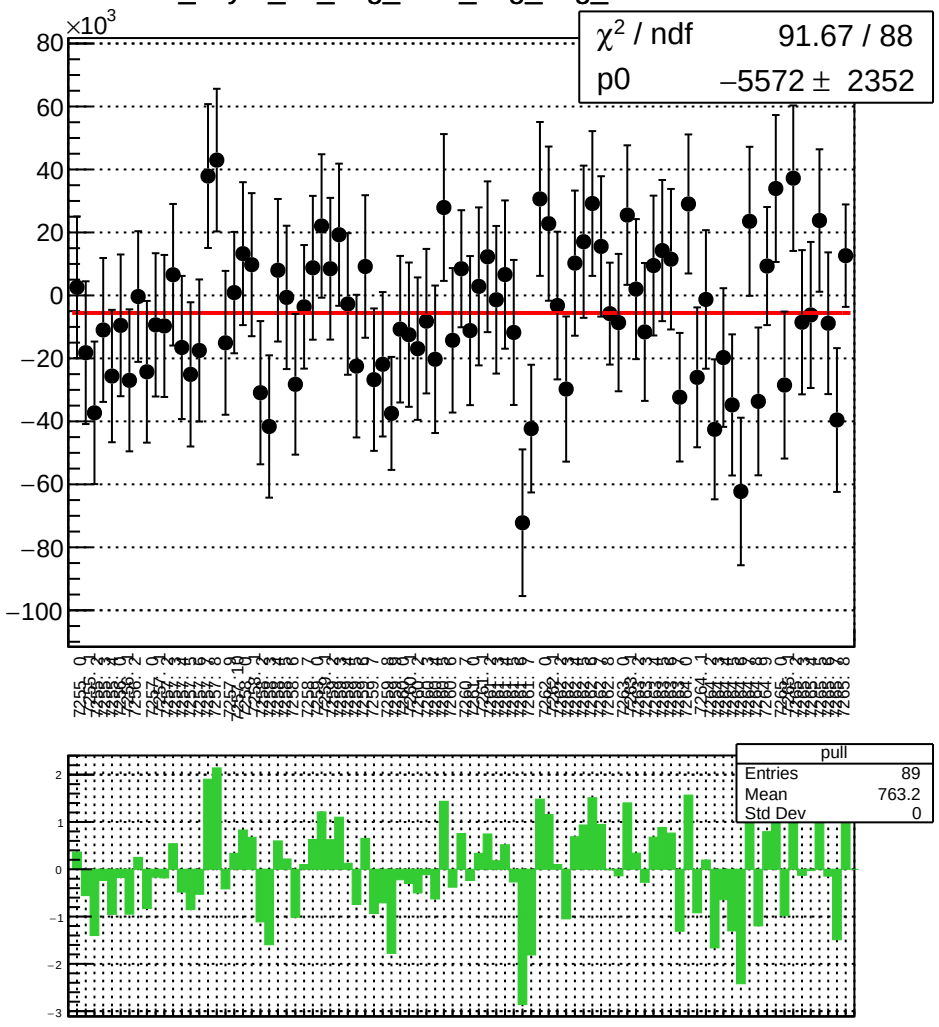

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ^2 / ndf 7842 / 88
p0 1.048e+04 ± 8.07
12500
12000
11500
11000
10500
10000
9500
9000

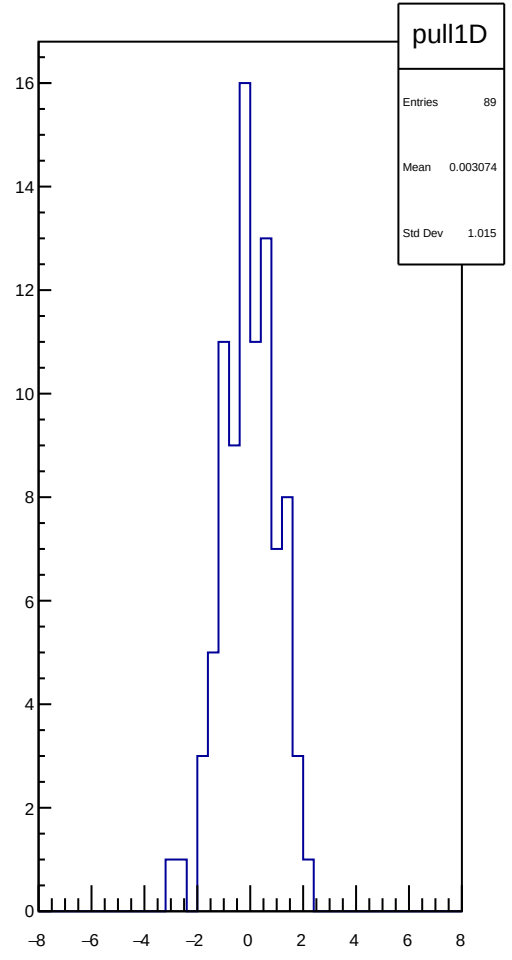

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 100.4 / 88
p0 −4931 ± 2257
pull
Entries 89
Mean −9628
Std Dev 0
pull1D
Entries 89
Mean −0.0002551
Std Dev 1.062

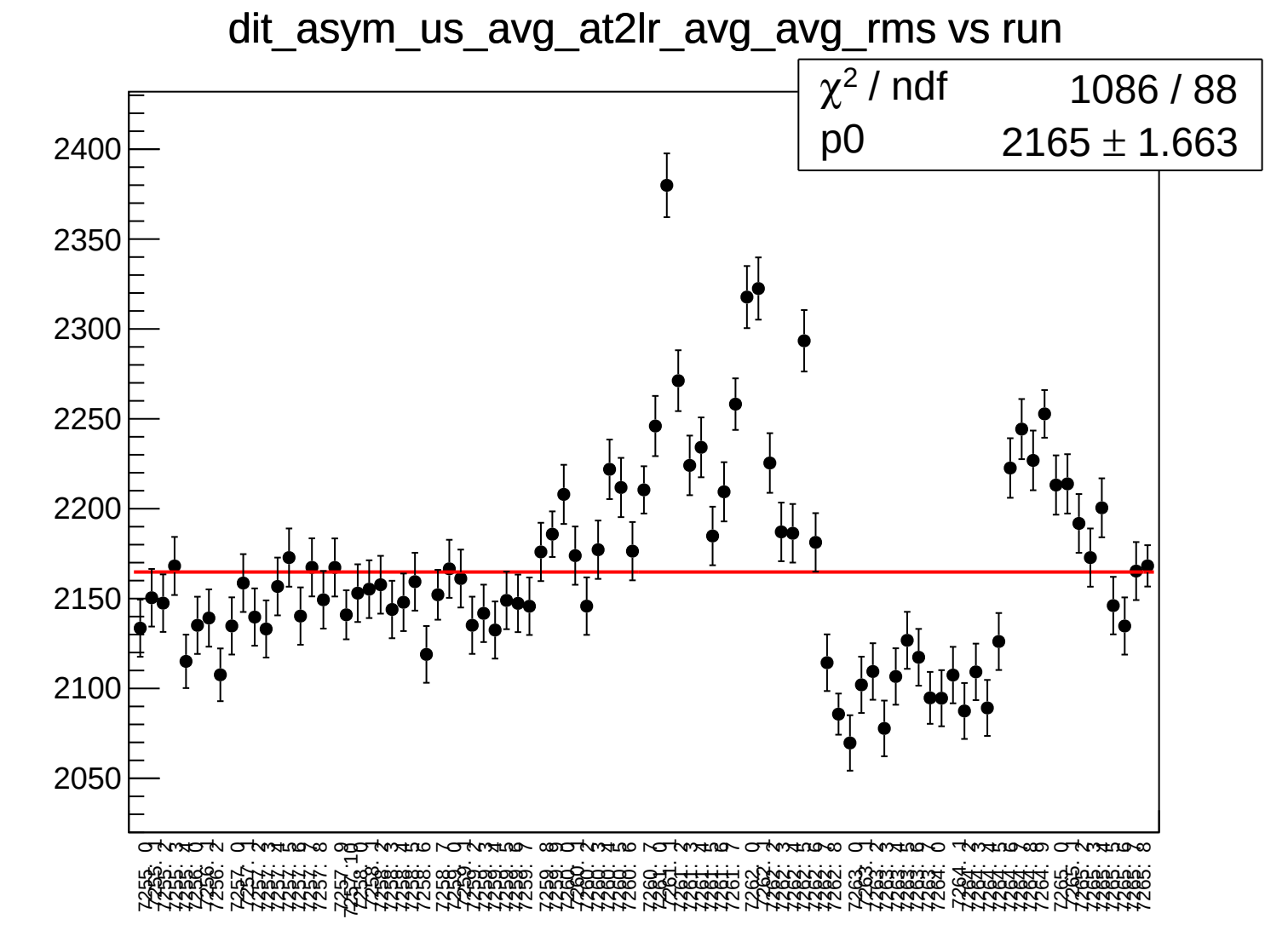

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 160.4 / 88
p0 2078 ± 1.596
2160
2140
2120
2100
2080
2060
2040
2020
2000

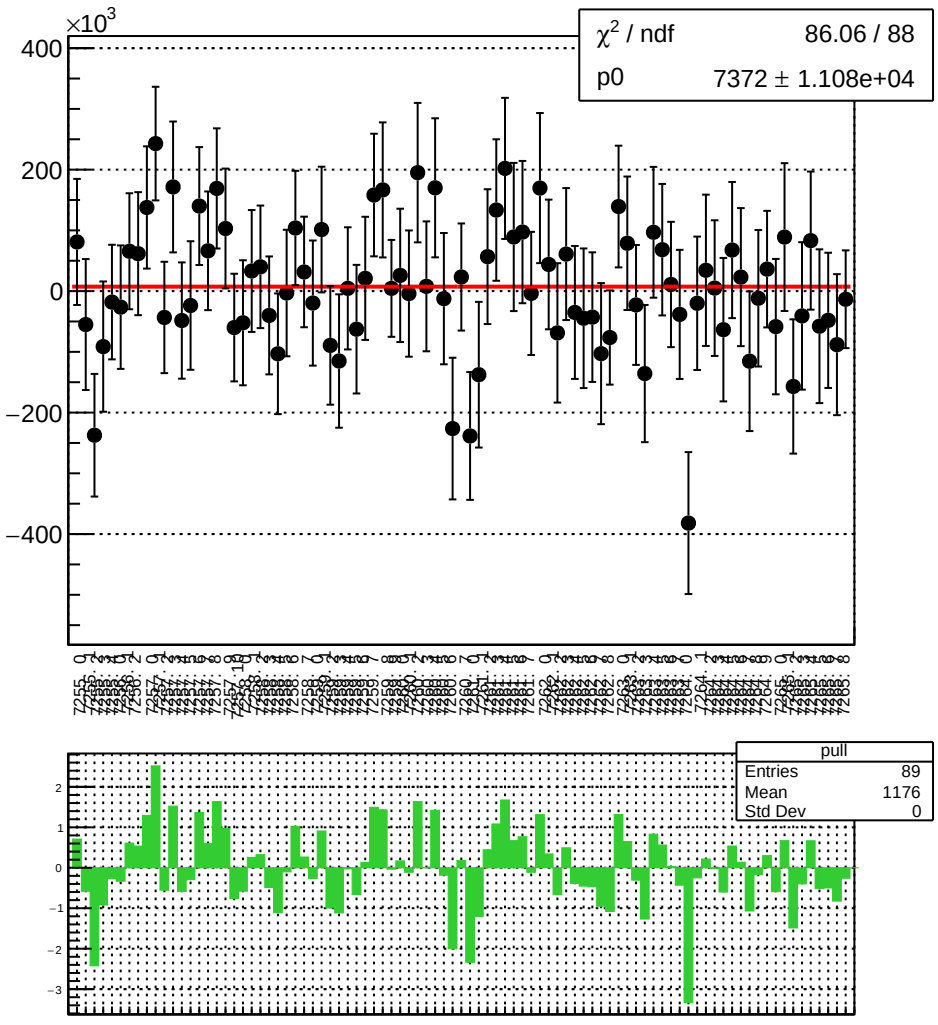

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.98 / 88
p0 7856 ± 1.141e+04
pull
Entries 89
Mean 1183
Std Dev 0
pull1D
Entries 89
Mean −0.003612
Std Dev 0.9829

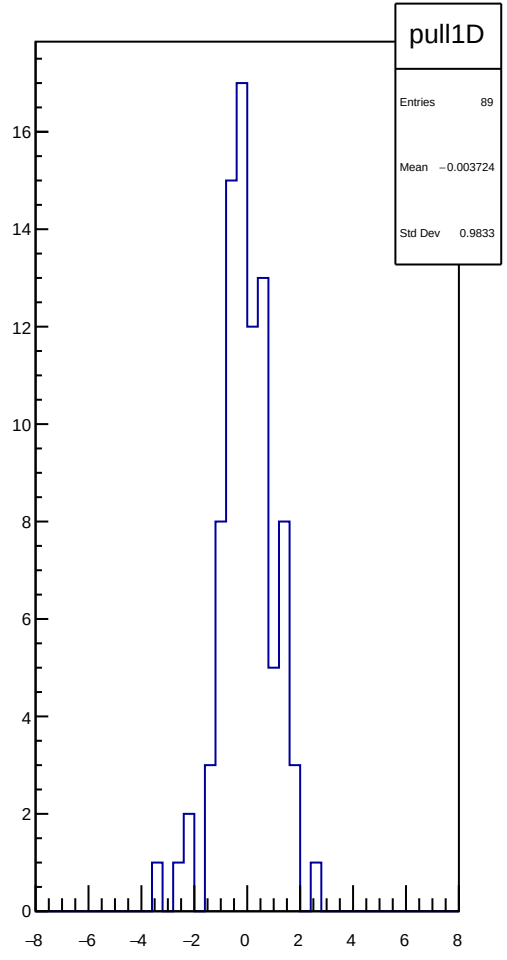

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 7842 / 88
p0 1.048e+04 ± 8.07
12500
12000
11500
11000
10500
10000
9500
9000

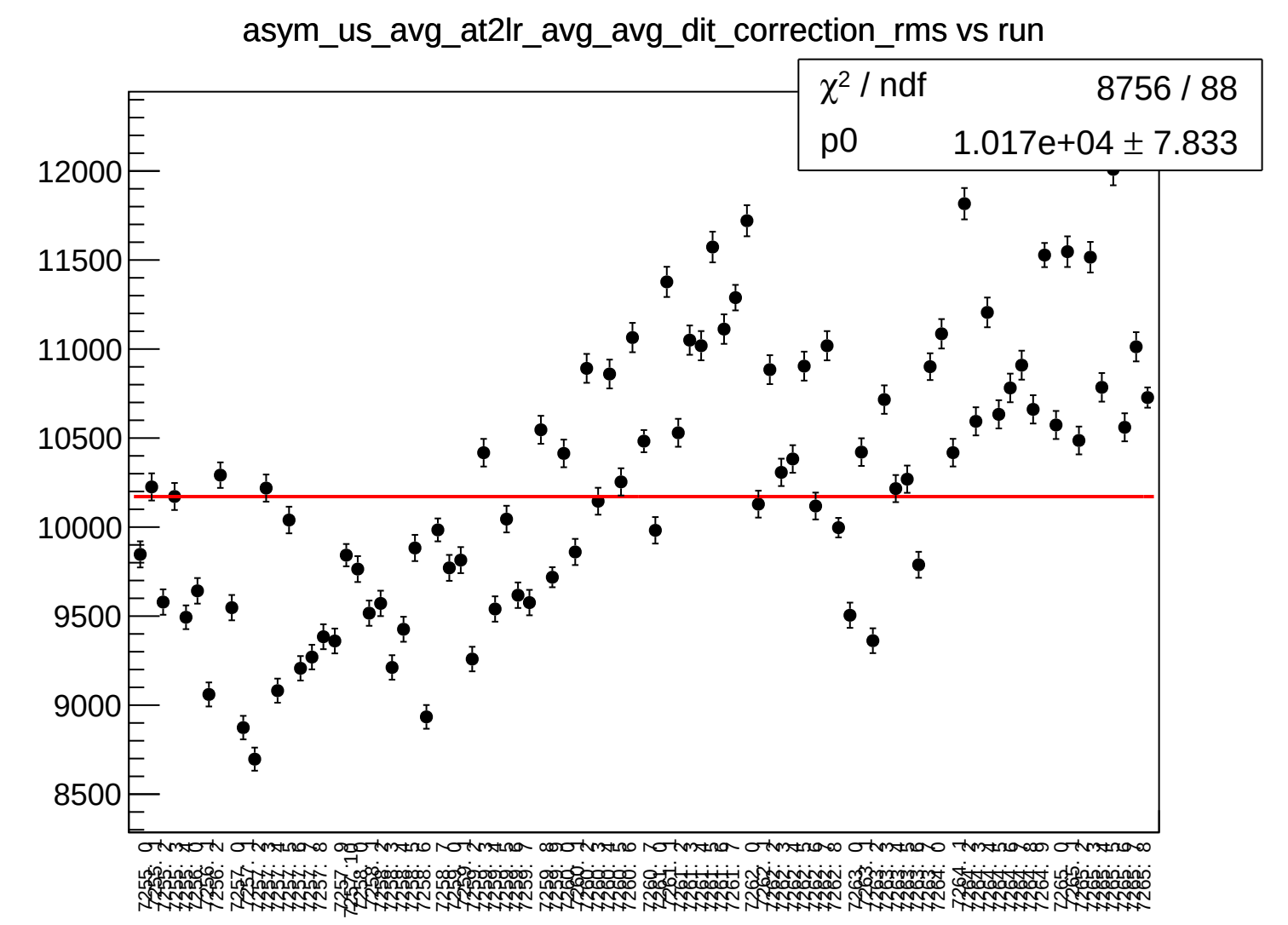

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ^2 / ndf 91.67 / 88
p0 −5572 ± 2352
×10^3
pull
Entries 89
Mean 763.2
Std Dev 0

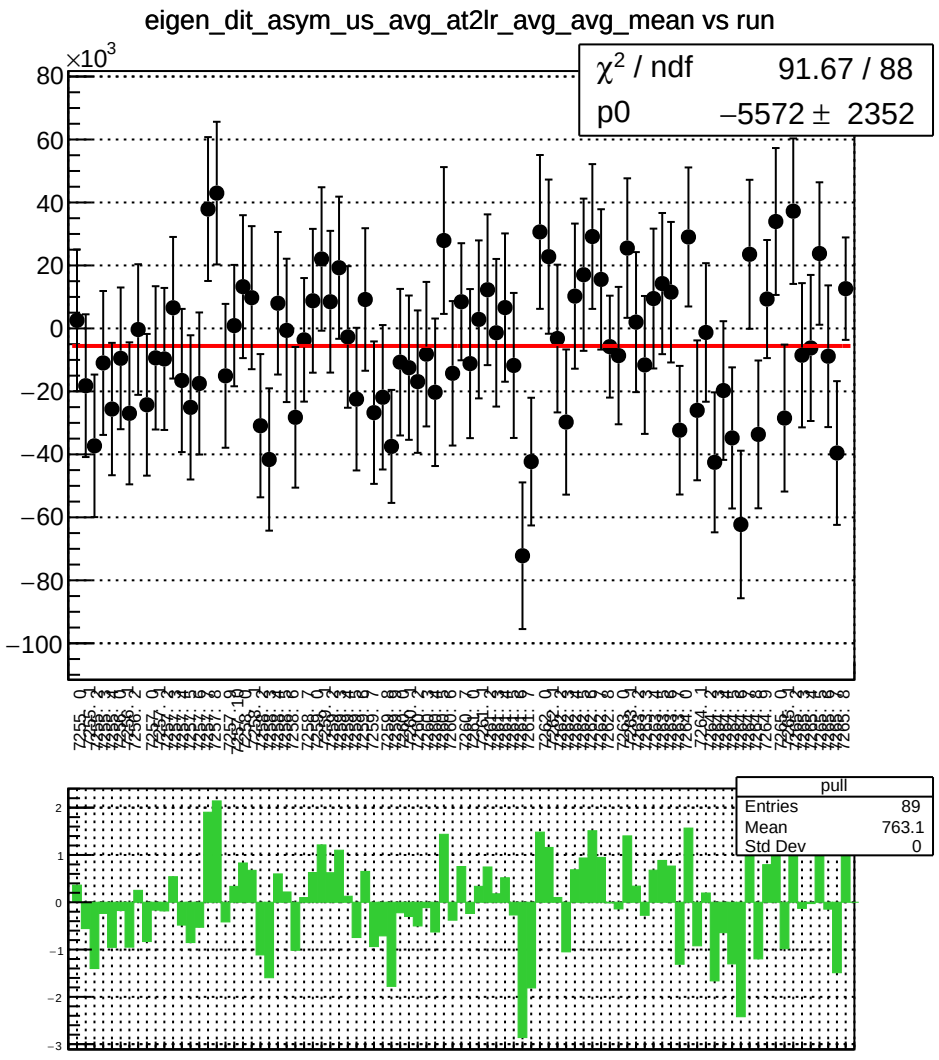

pull1D
Entries 89
Mean 0.003074
Std Dev 1.015

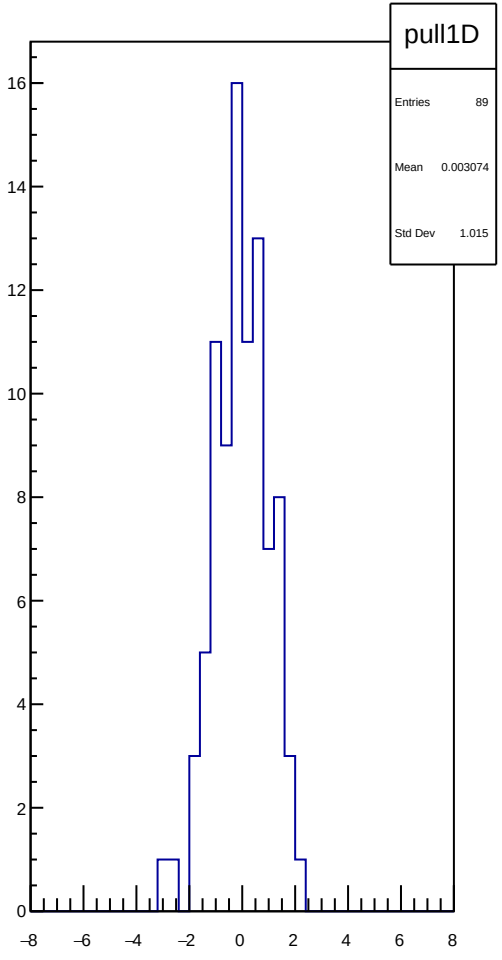

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1086 / 88
p0 2165 ± 1.663
2400
2350
2300
2250
2200
2150
2100
2050

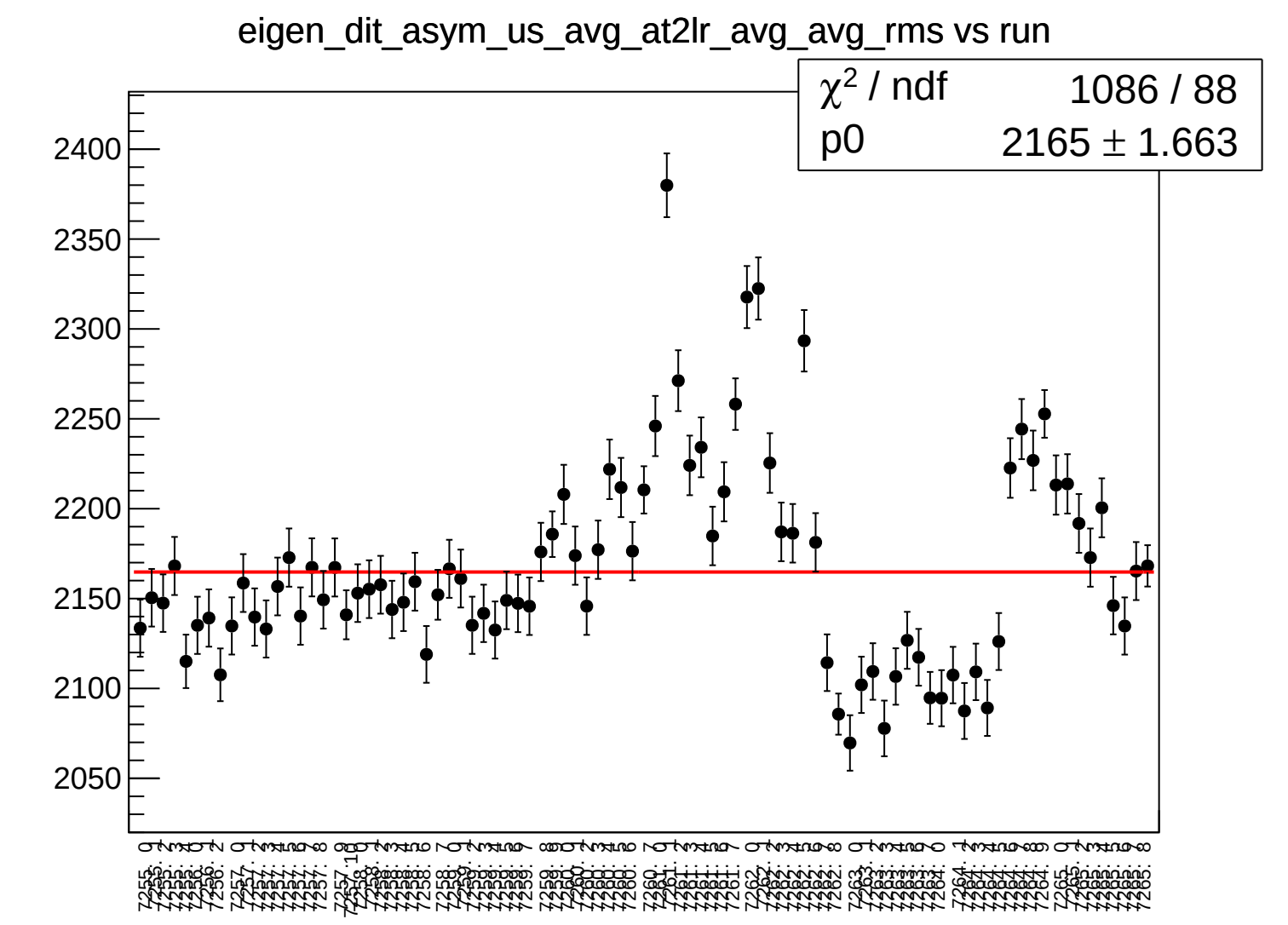

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
400
200
0
−200
−400
χ² / ndf 86.06 / 88
p0 7372 ± 1.108e+04
pull
Entries 89
Mean 1176
Std Dev 0
2
1
0
−1
−2
−3

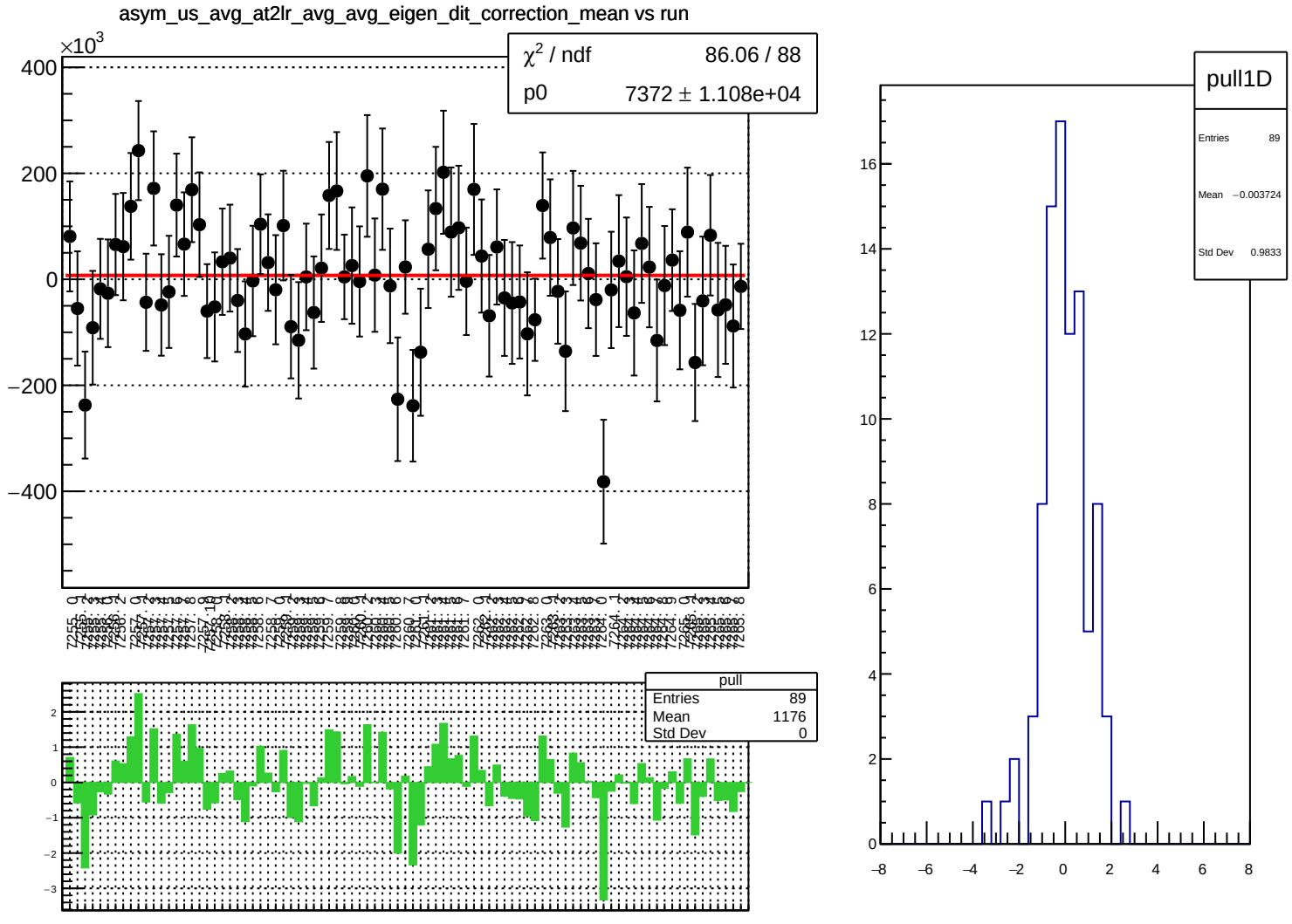

pull1D
Entries 89
Mean −0.003724
Std Dev 0.9833
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

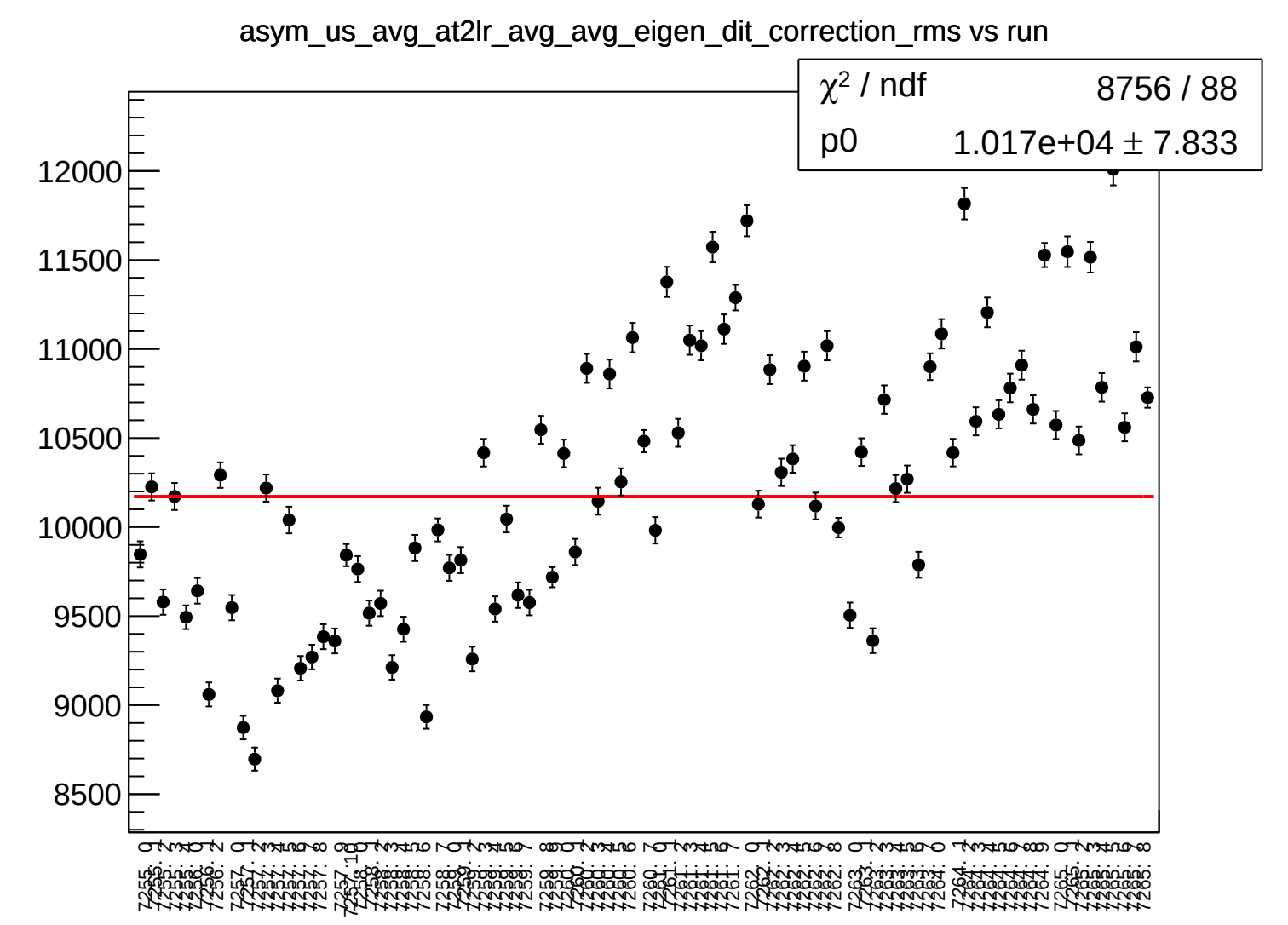

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 8756 / 88
p0 1.017e+04 ± 7.833
12000
11500
11000
10500
10000
9500
9000
8500

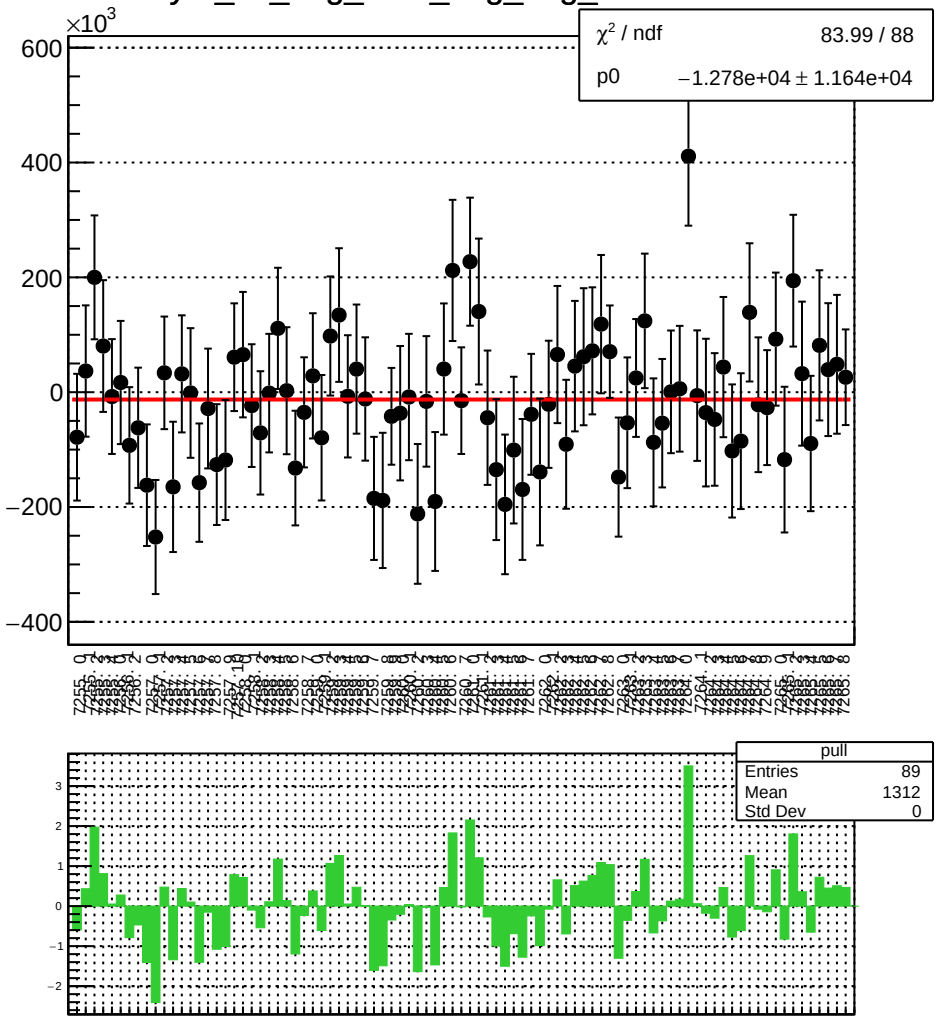

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 91.67 / 88
p0 −5572 ± 2352
×10³
pull
Entries 89
Mean 763.1
Std Dev 0

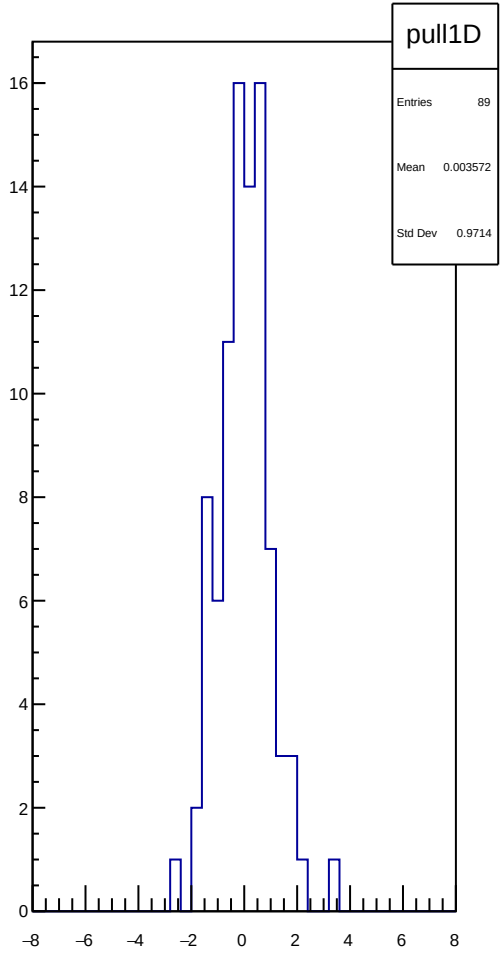

pull1D
Entries 89
Mean 0.003074
Std Dev 1.015

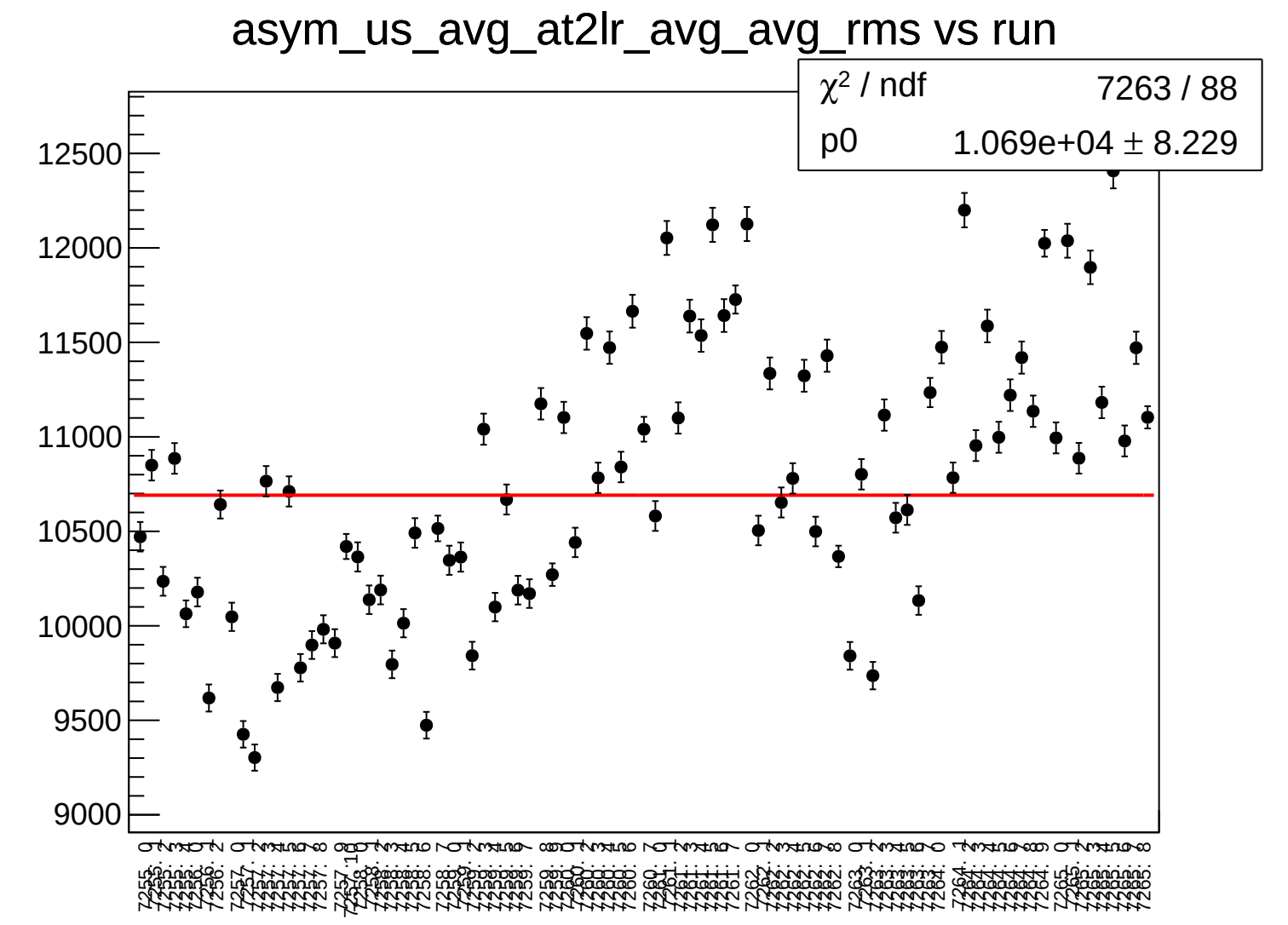

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1086 / 88
p0 2165 ± 1.663
2400
2350
2300
2250
2200
2150
2100
2050

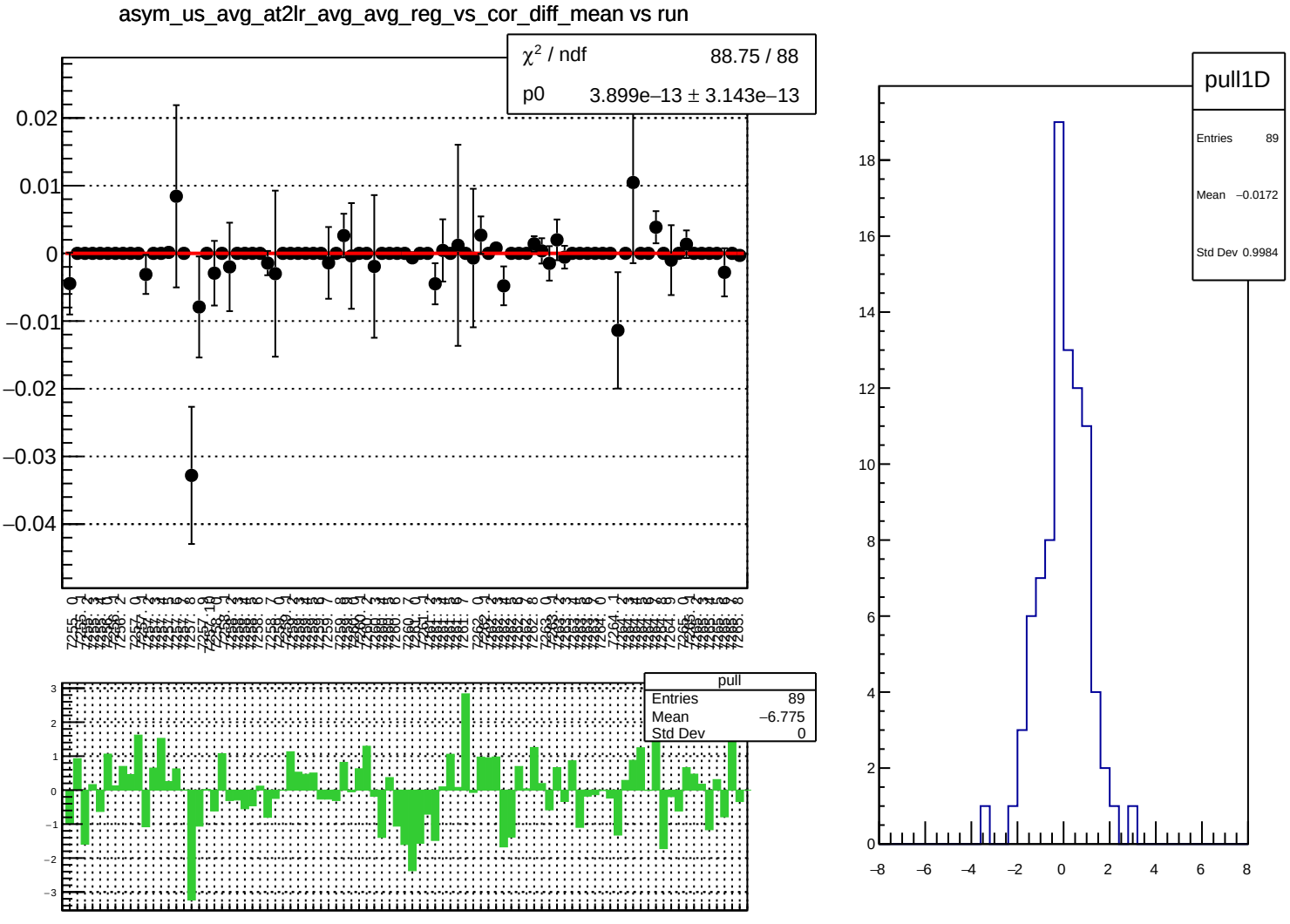

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
400
200
0
−200
−400
χ² / ndf 86.06 / 88
p0 7372 ± 1.108e+04
pull
Entries 89
Mean 1176
Std Dev 0
pull1D
Entries 89
Mean −0.003724
Std Dev 0.9833

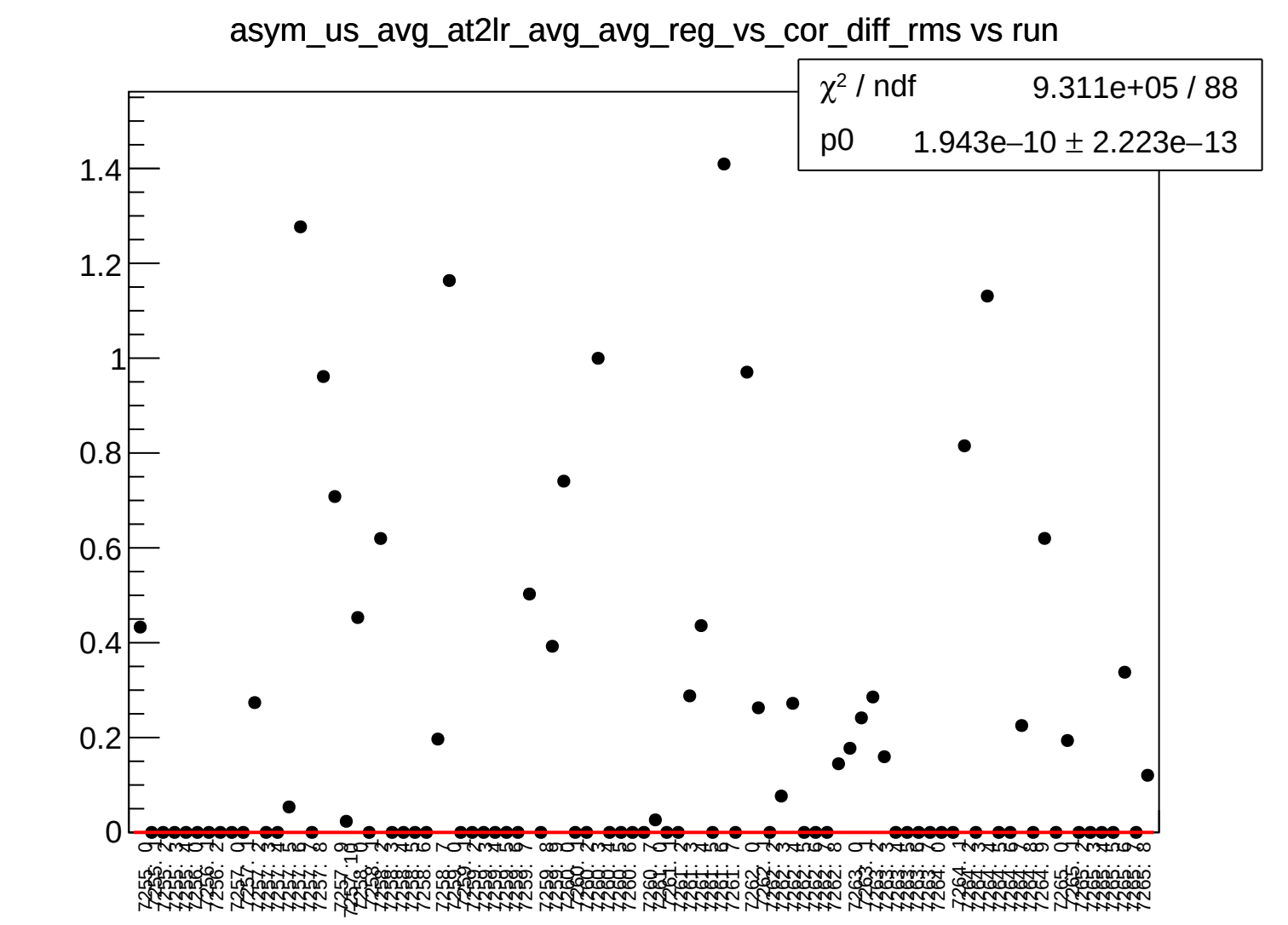

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 8756 / 88
p0 1.017e+04 ± 7.833
12000
11500
11000
10500
10000
9500
9000
8500

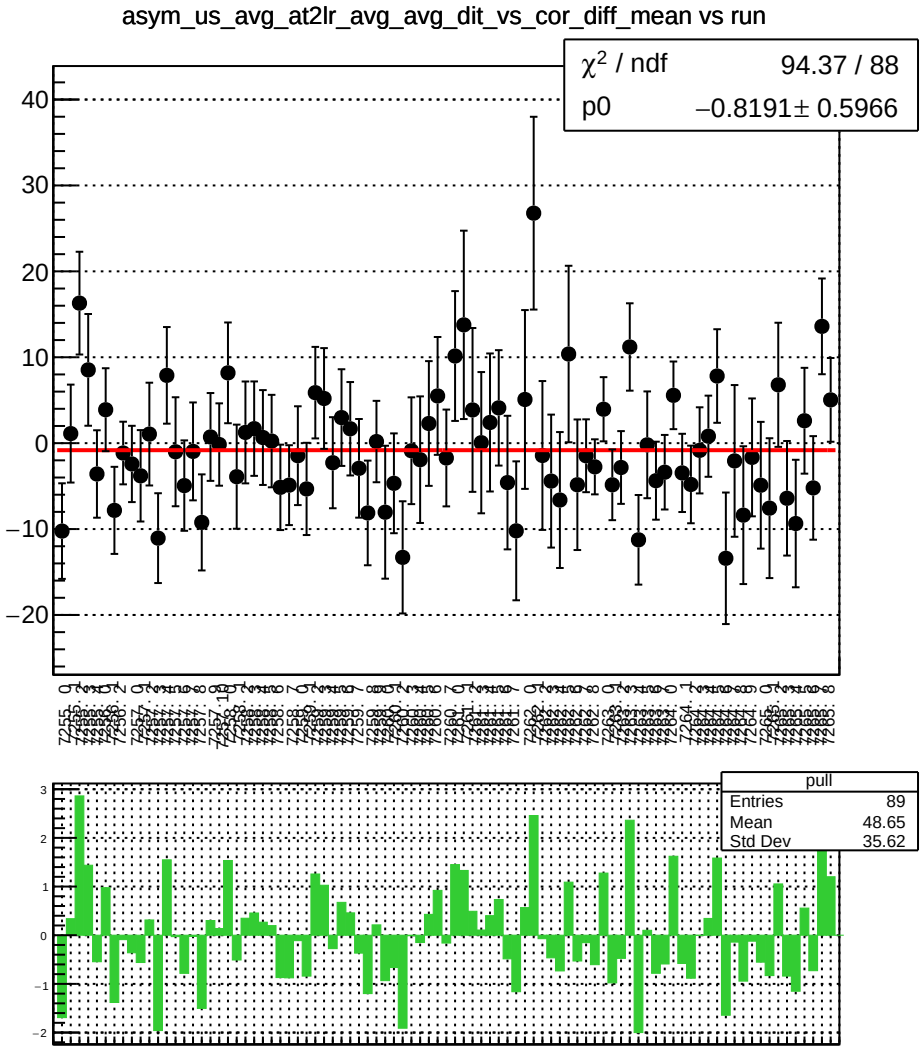

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 83.99 / 88
p0 −1.278e+04 ± 1.164e+04
pull
Entries 89
Mean 1312
Std Dev 0
3
2
1
0
−1
−2

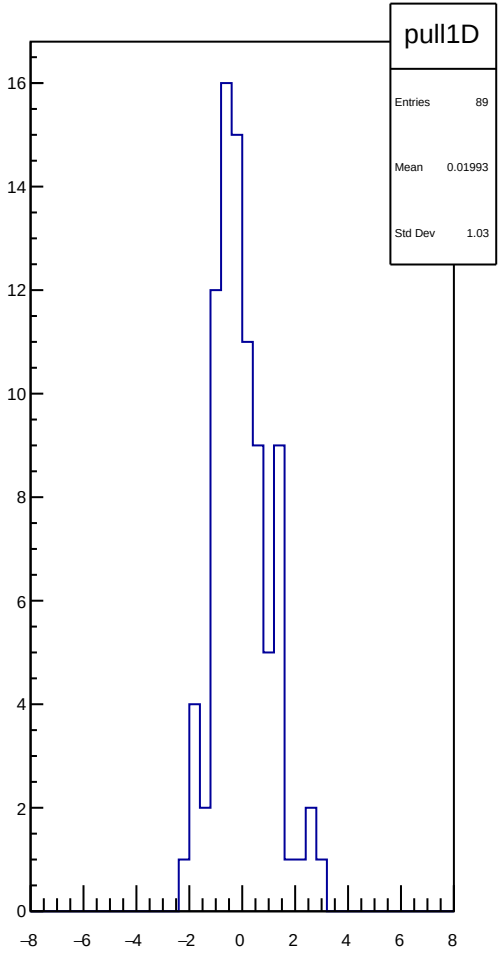

pull1D
Entries 89
Mean 0.003572
Std Dev 0.9714
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

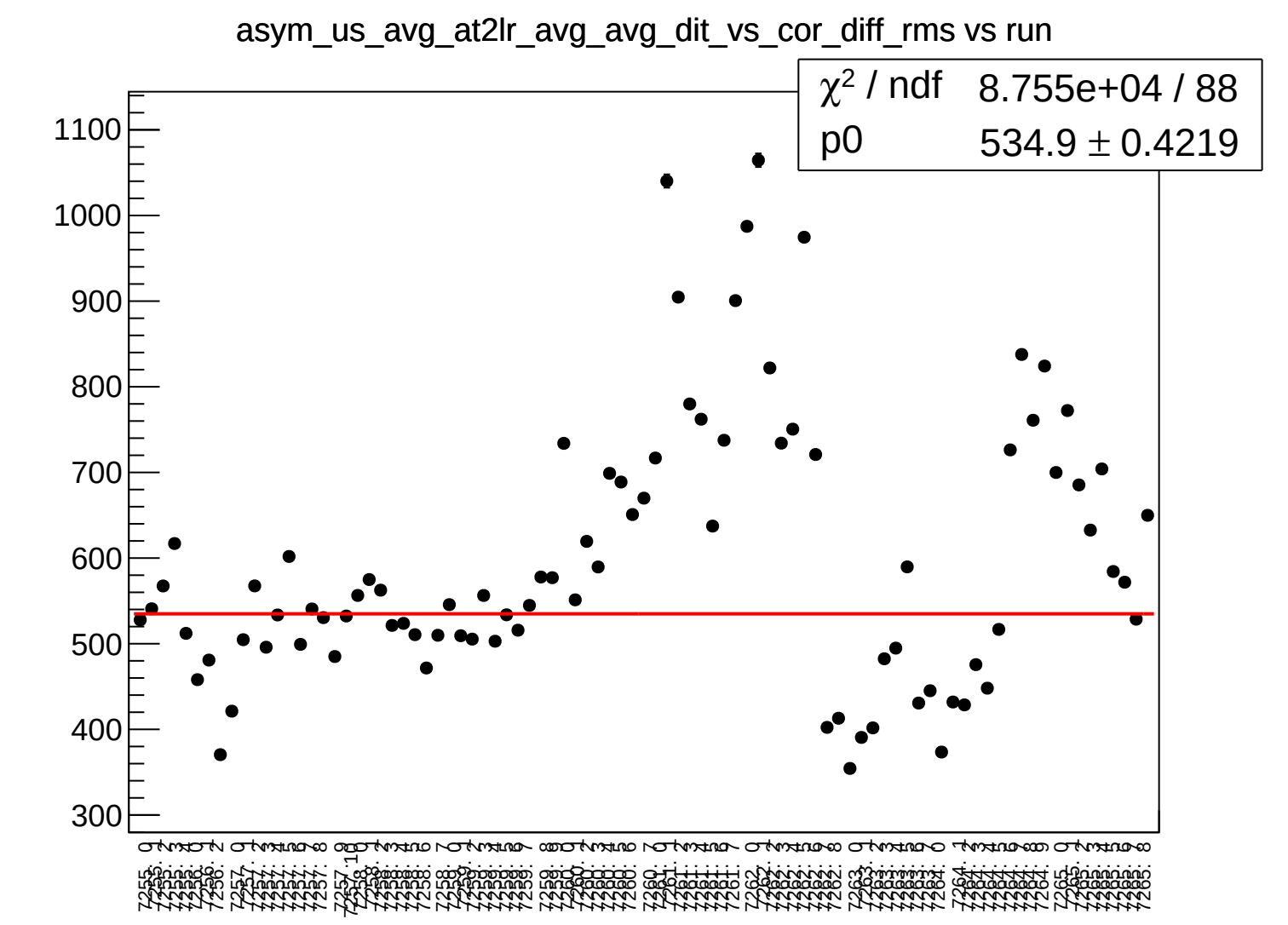

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 7263 / 88
p0 1.069e+04 ± 8.229
12500
12000
11500
11000
10500
10000
9500
9000

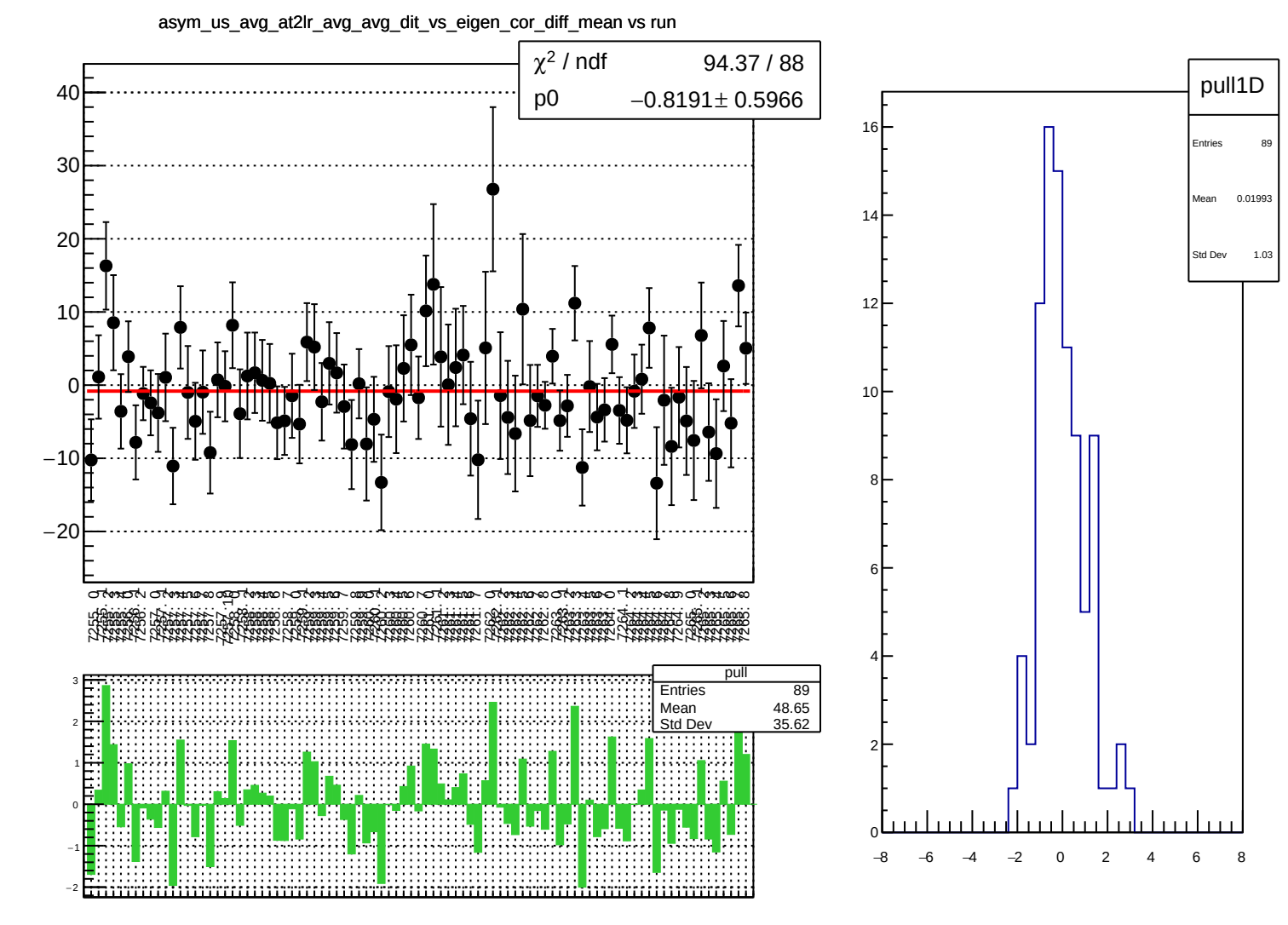

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.75 / 88
p0 3.899e−13 ± 3.143e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 89
Mean −6.775
Std Dev 0
pull1D
Entries 89
Mean −0.0172
Std Dev 0.9984

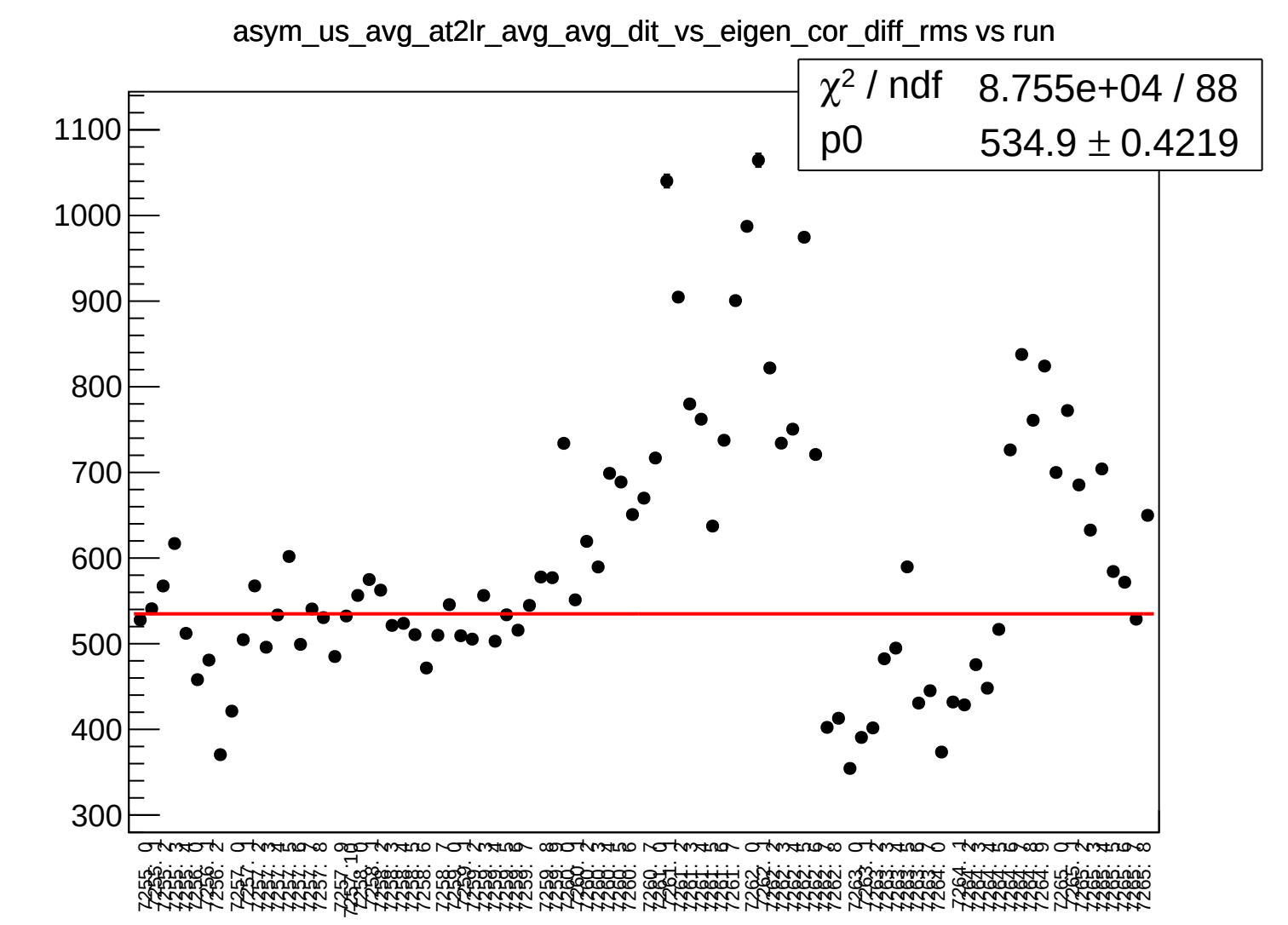

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.311e+05 / 88
p0 1.943e−10 ± 2.223e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

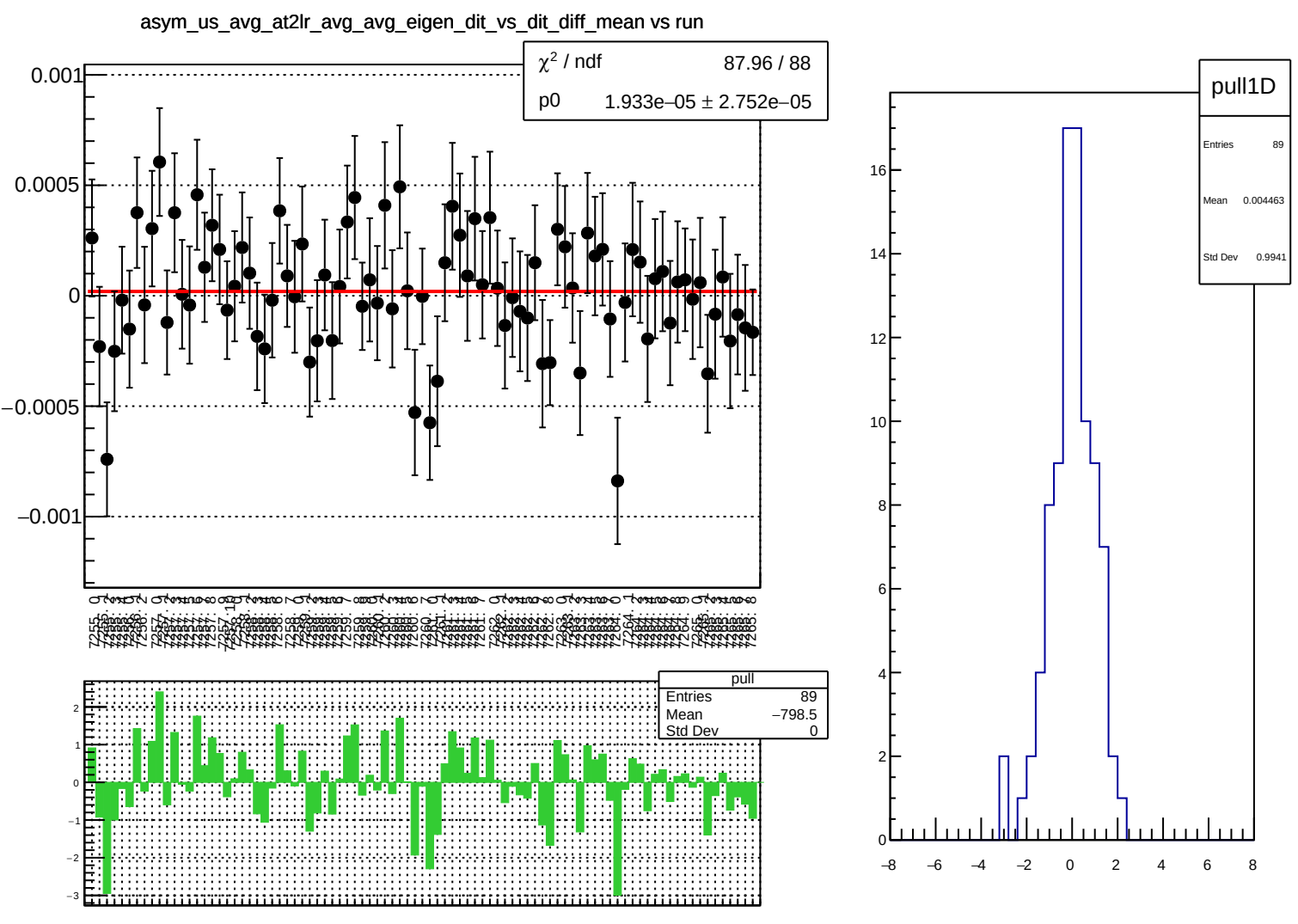

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.37 / 88
p0 −0.8191± 0.5966
pull
Entries 89
Mean 48.65
Std Dev 35.62

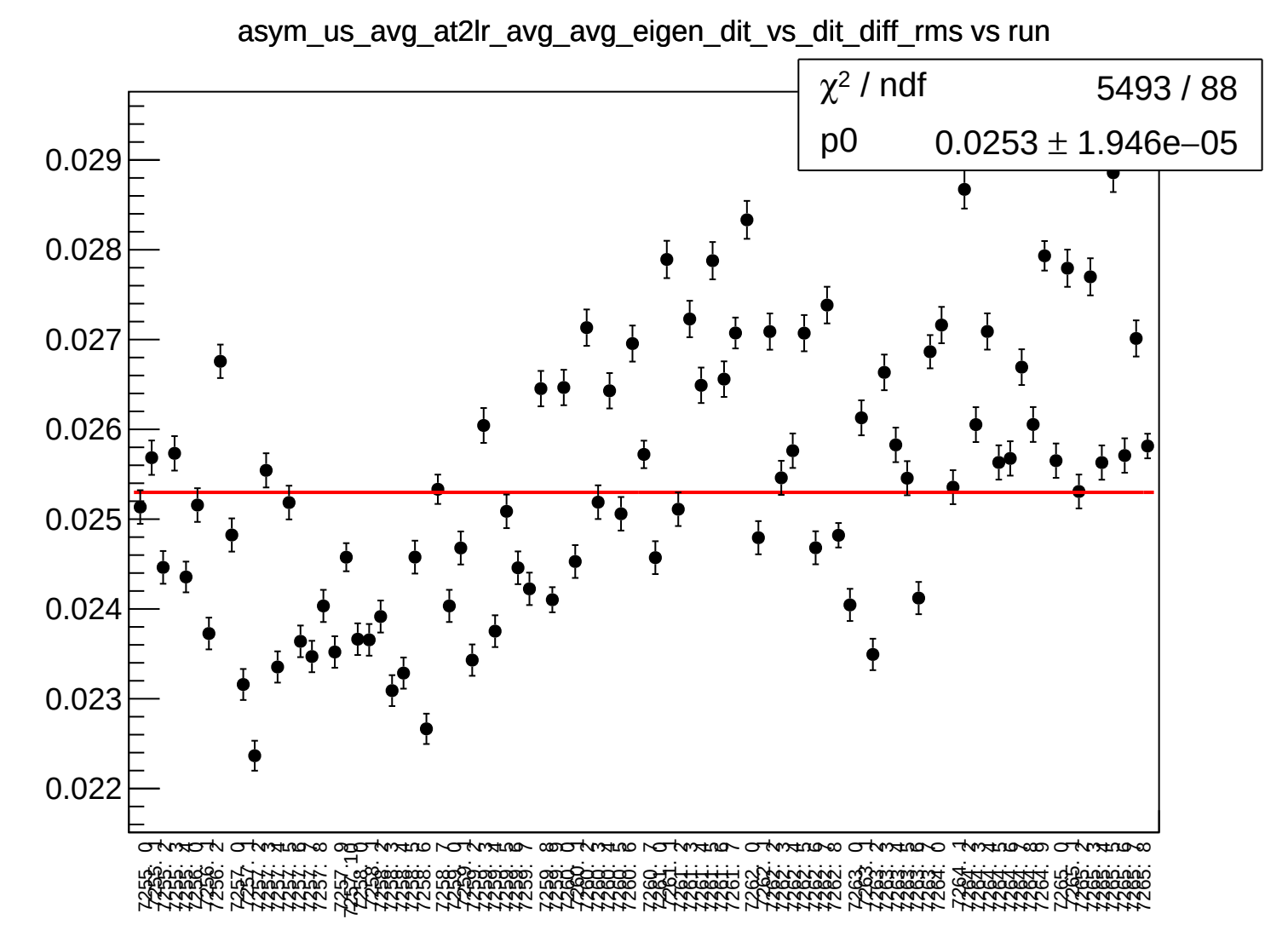

pull1D
Entries 89
Mean 0.01993
Std Dev 1.03

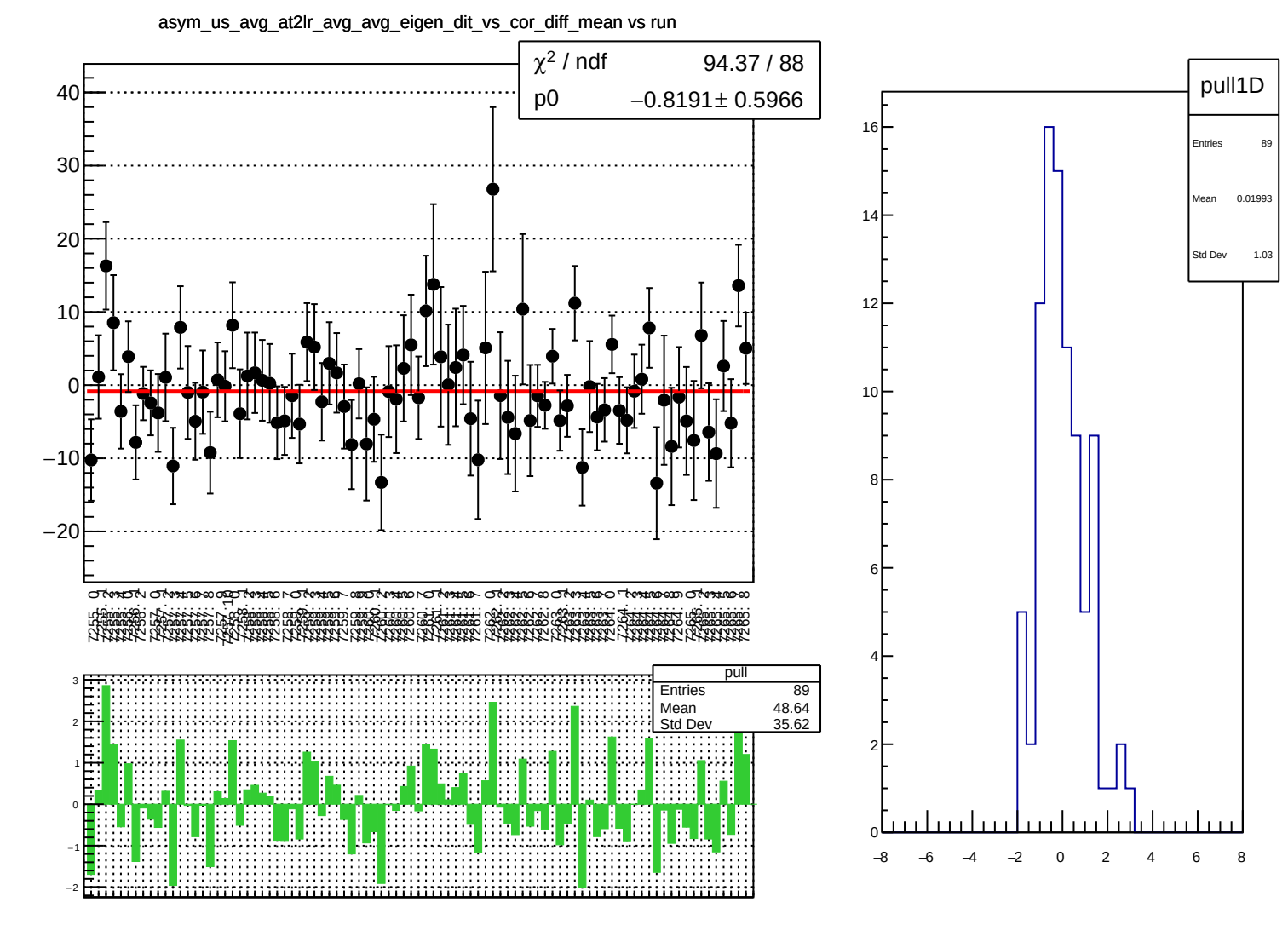

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.755e+04 / 88
p0 534.9 ± 0.4219
1100
1000
900
800
700
600
500
400
300

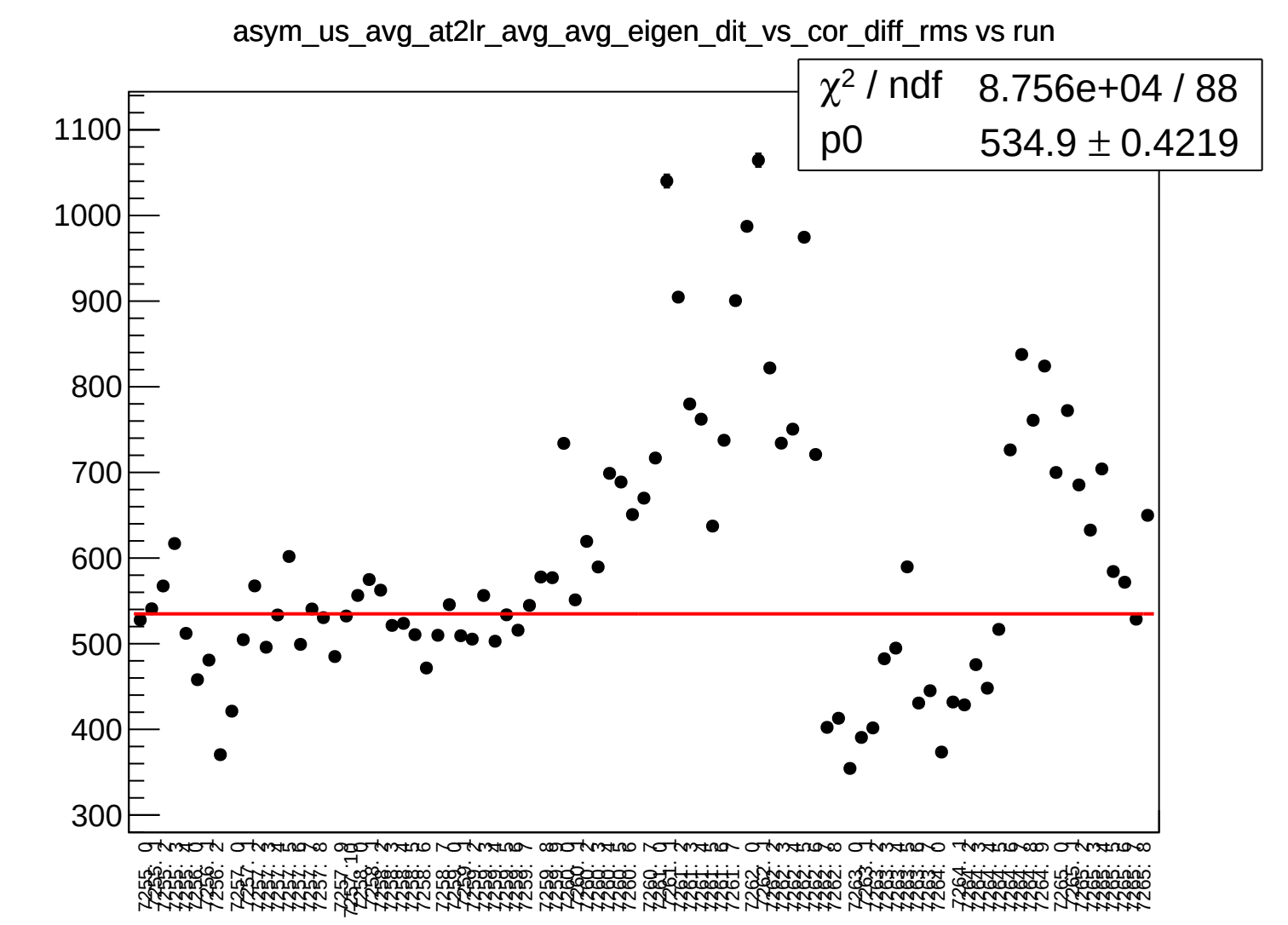

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.37 / 88
p0 −0.8191± 0.5966
pull
Entries 89
Mean 48.65
Std Dev 35.62
pull1D
Entries 89
Mean 0.01993
Std Dev 1.03

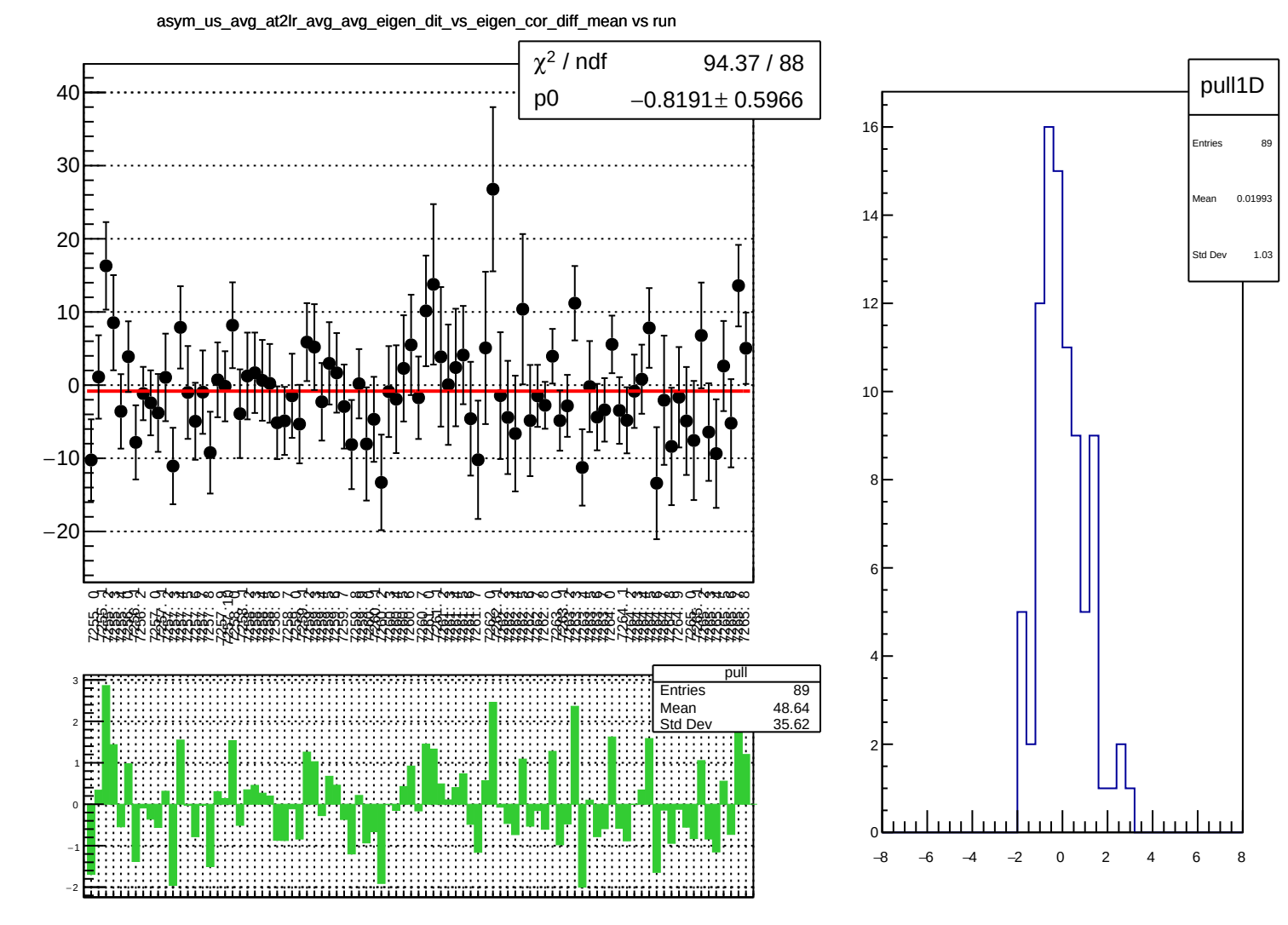

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.755e+04 / 88
p0 534.9 ± 0.4219
1100
1000
900
800
700
600
500
400
300

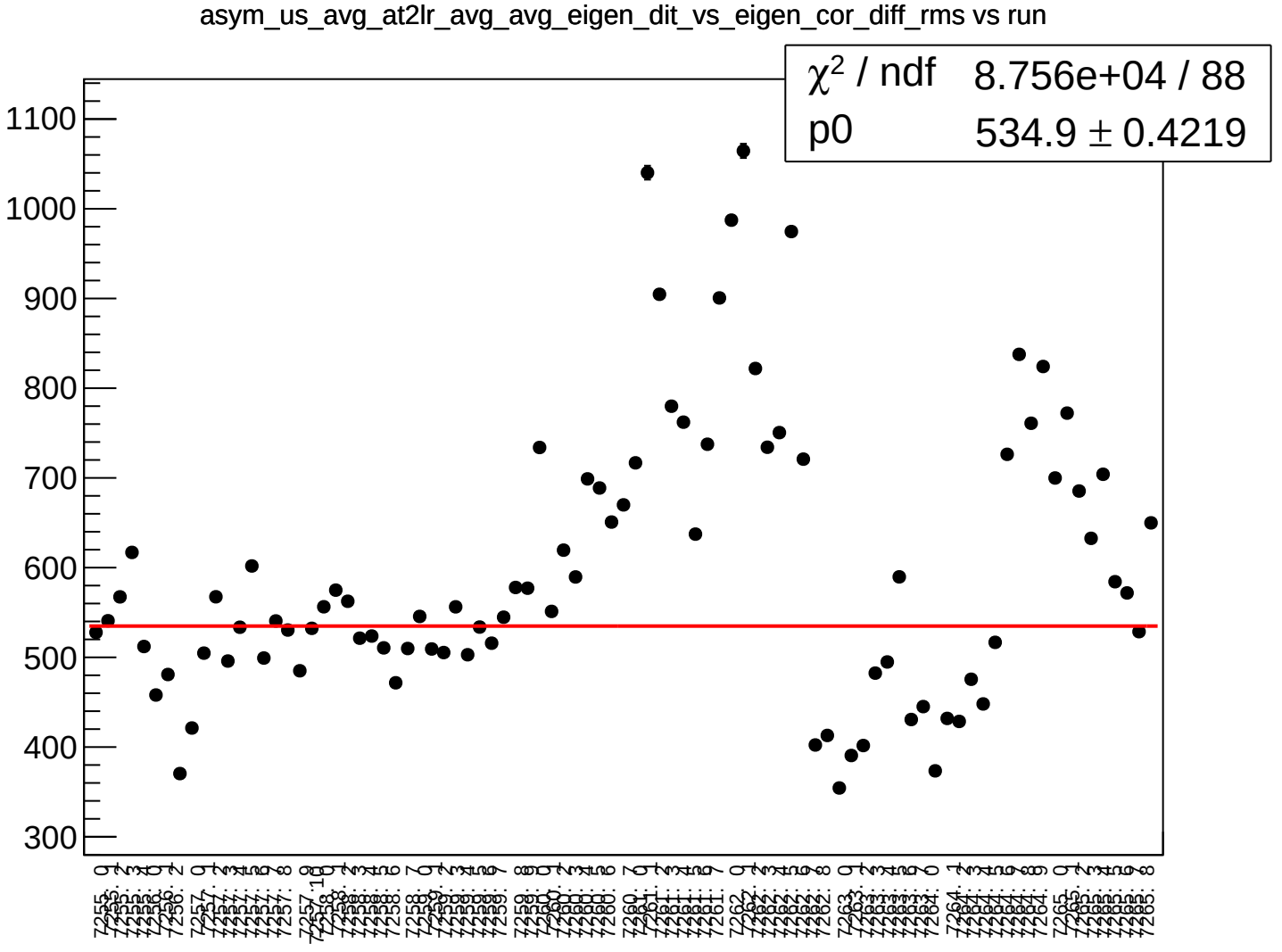

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 87.96 / 88
p0 1.933e−05 ± 2.752e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean −798.5
Std Dev 0
pull1D
Entries 89
Mean 0.004463
Std Dev 0.9941

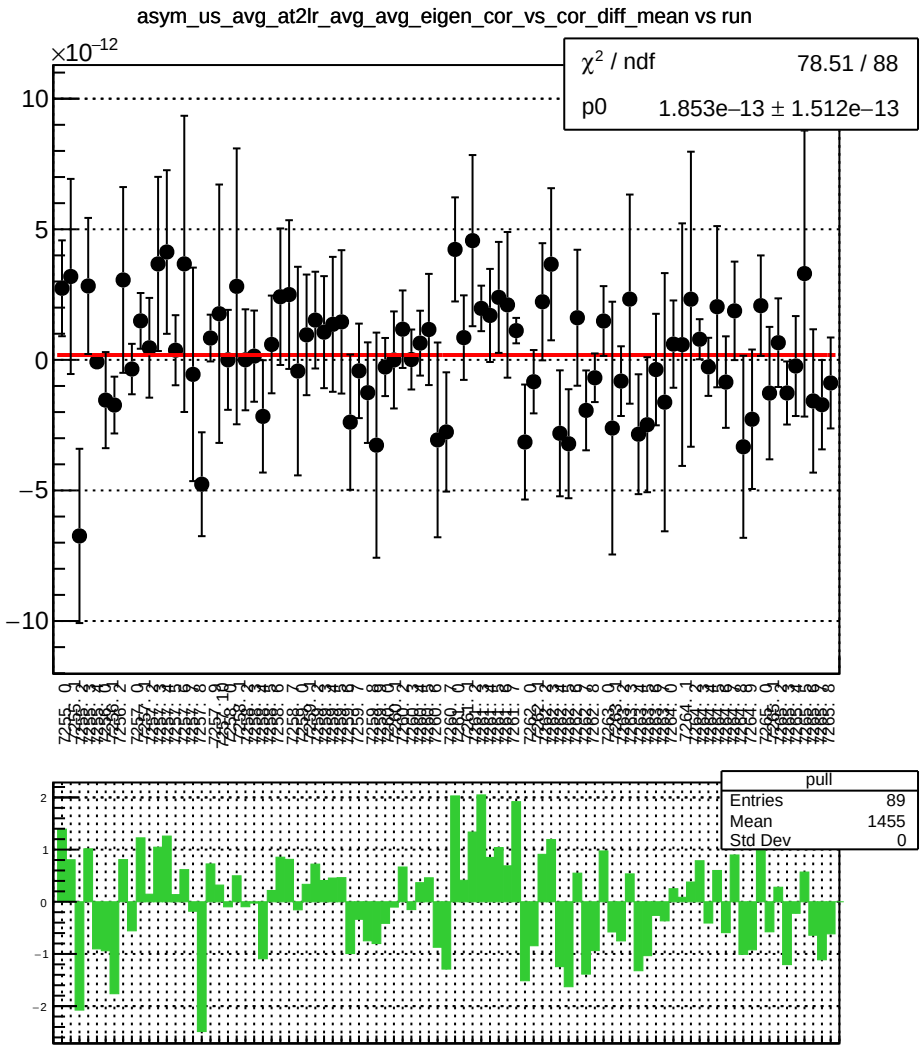

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5493 / 88
p0 0.0253 ± 1.946e−05
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022

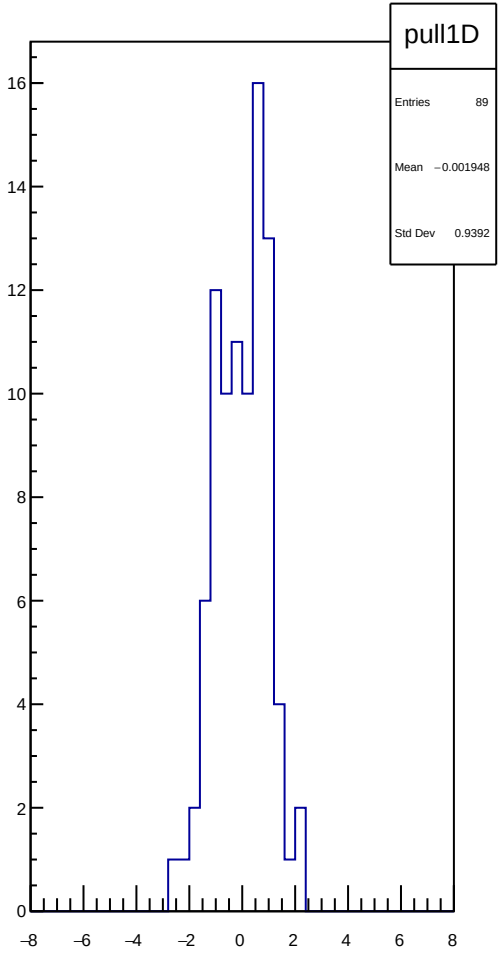

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.37 / 88
p0 −0.8191± 0.5966
pull
Entries 89
Mean 48.64
Std Dev 35.62
pull1D
Entries 89
Mean 0.01993
Std Dev 1.03

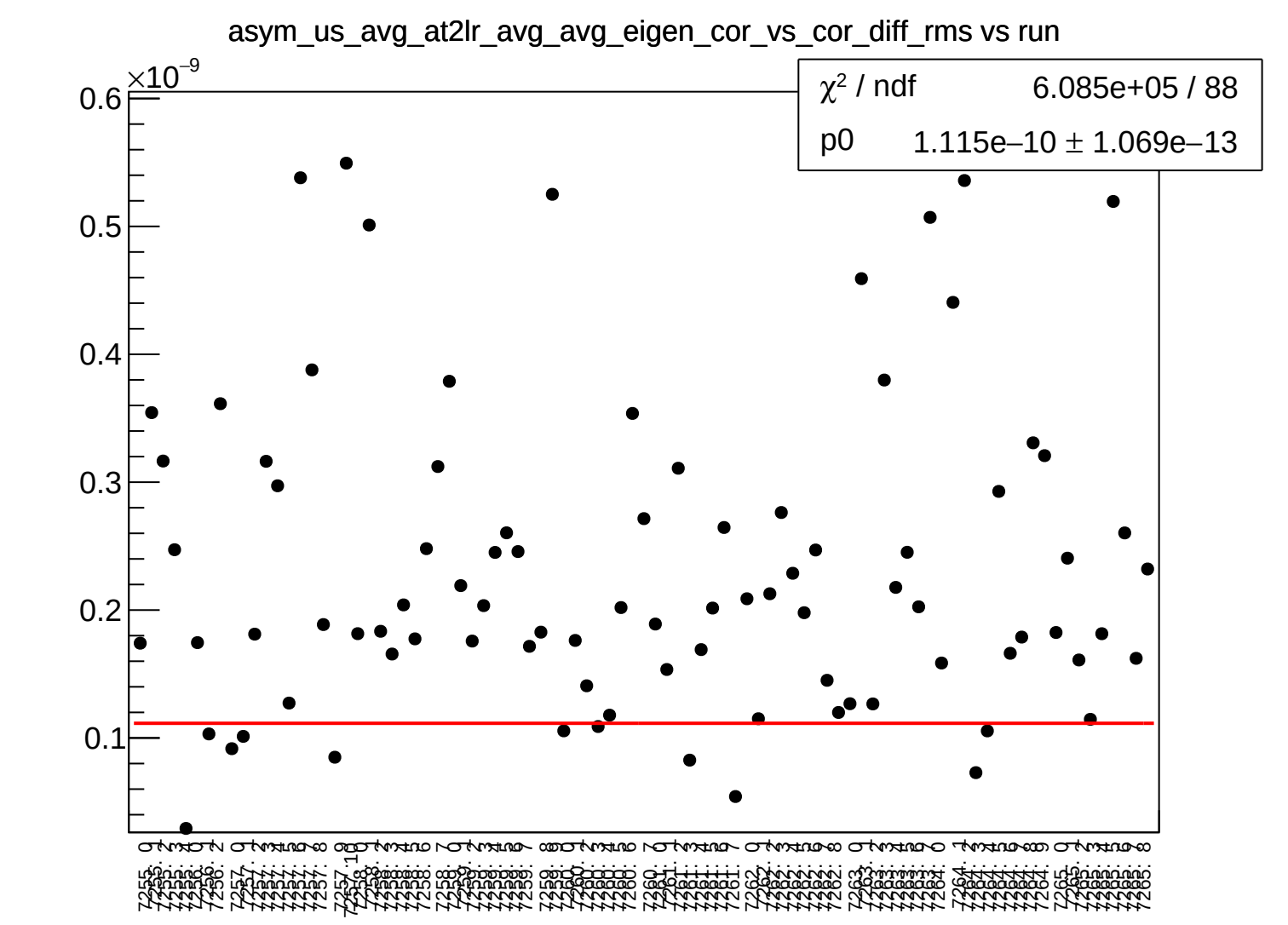

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.756e+04 / 88
p0 534.9 ± 0.4219
1100
1000
900
800
700
600
500
400
300

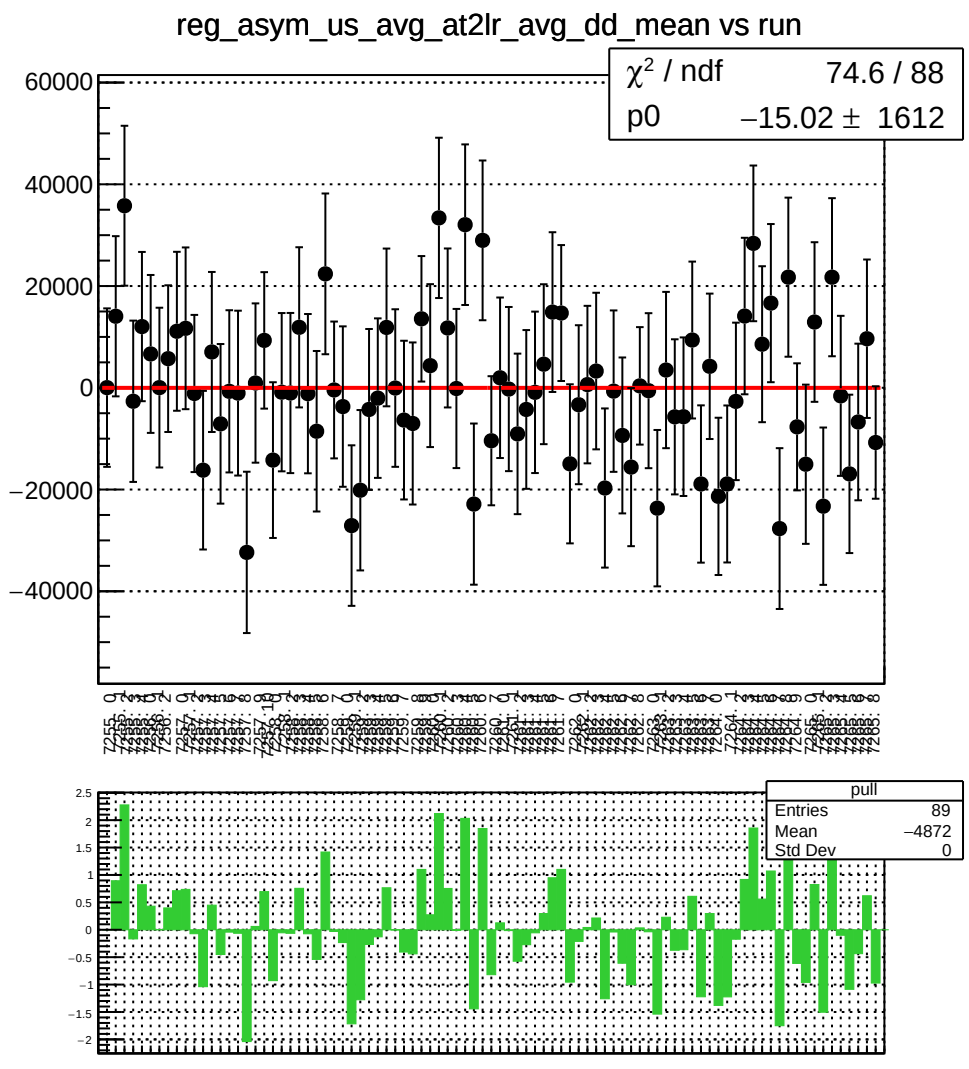

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.37 / 88
p0 −0.8191± 0.5966
pull
Entries 89
Mean 48.64
Std Dev 35.62
pull1D
Entries 89
Mean 0.01993
Std Dev 1.03

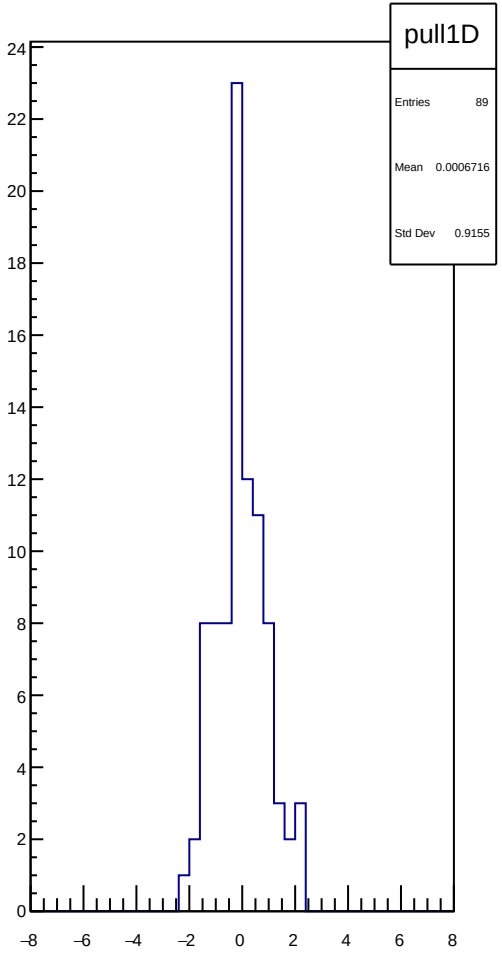

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.756e+04 / 88
p0 534.9 ± 0.4219
1100
1000
900
800
700
600
500
400
300

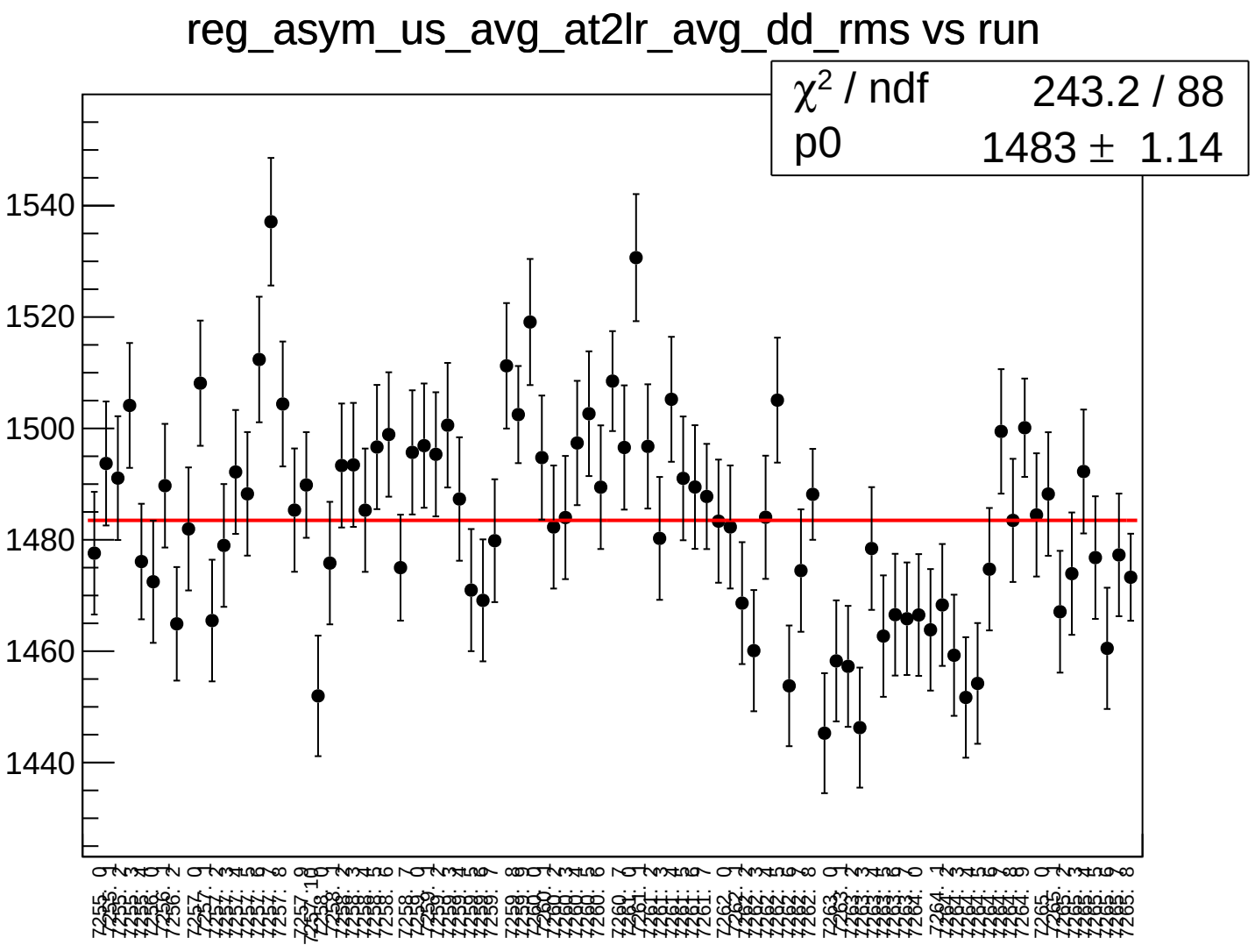

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.51 / 88
p0 1.853e−13 ± 1.512e−13
10
5
0
−5
−10
pull
Entries 89
Mean 1455
Std Dev 0
2
1
0
−1
−2

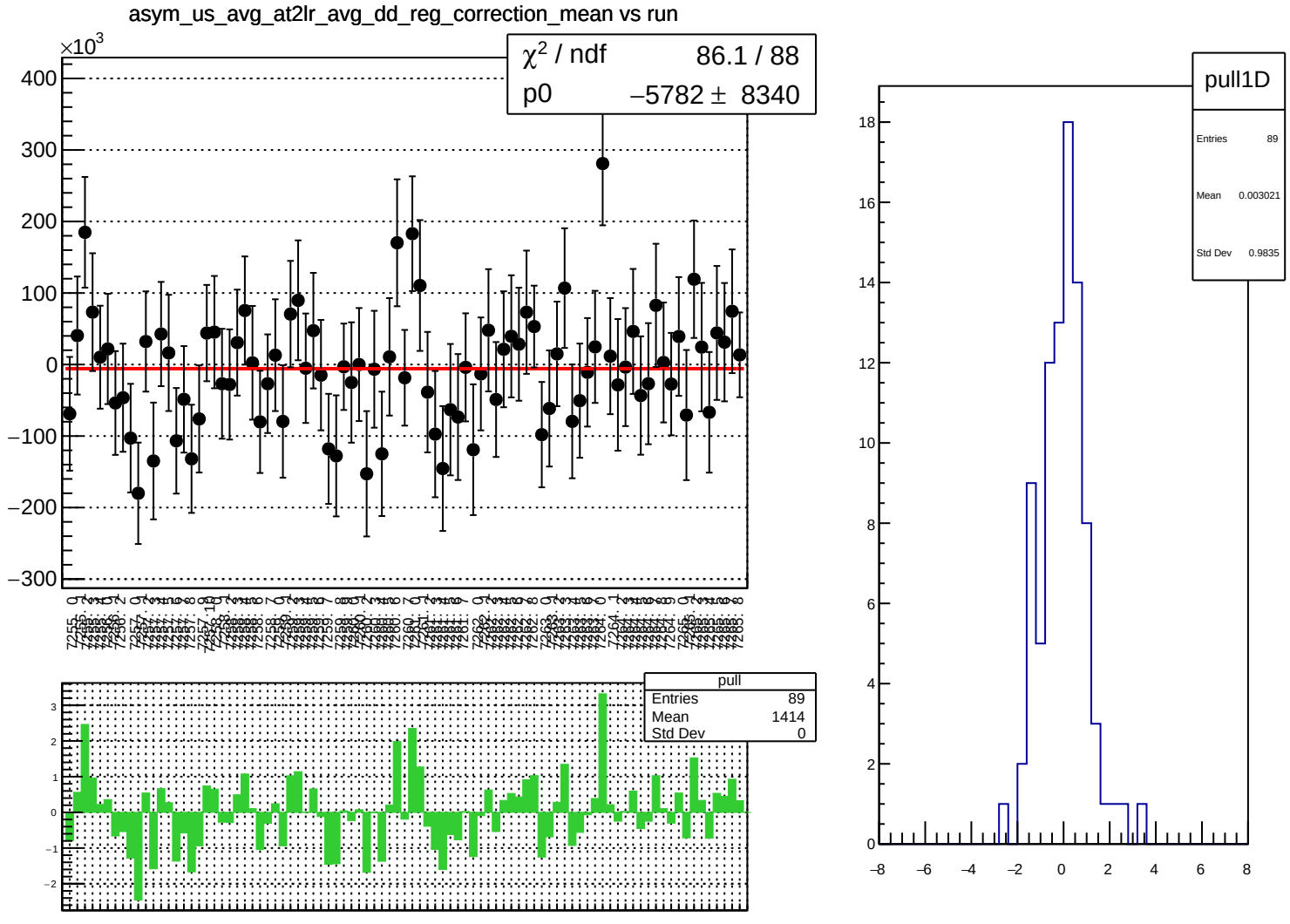

pull1D
Entries 89
Mean −0.001948
Std Dev 0.9392
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

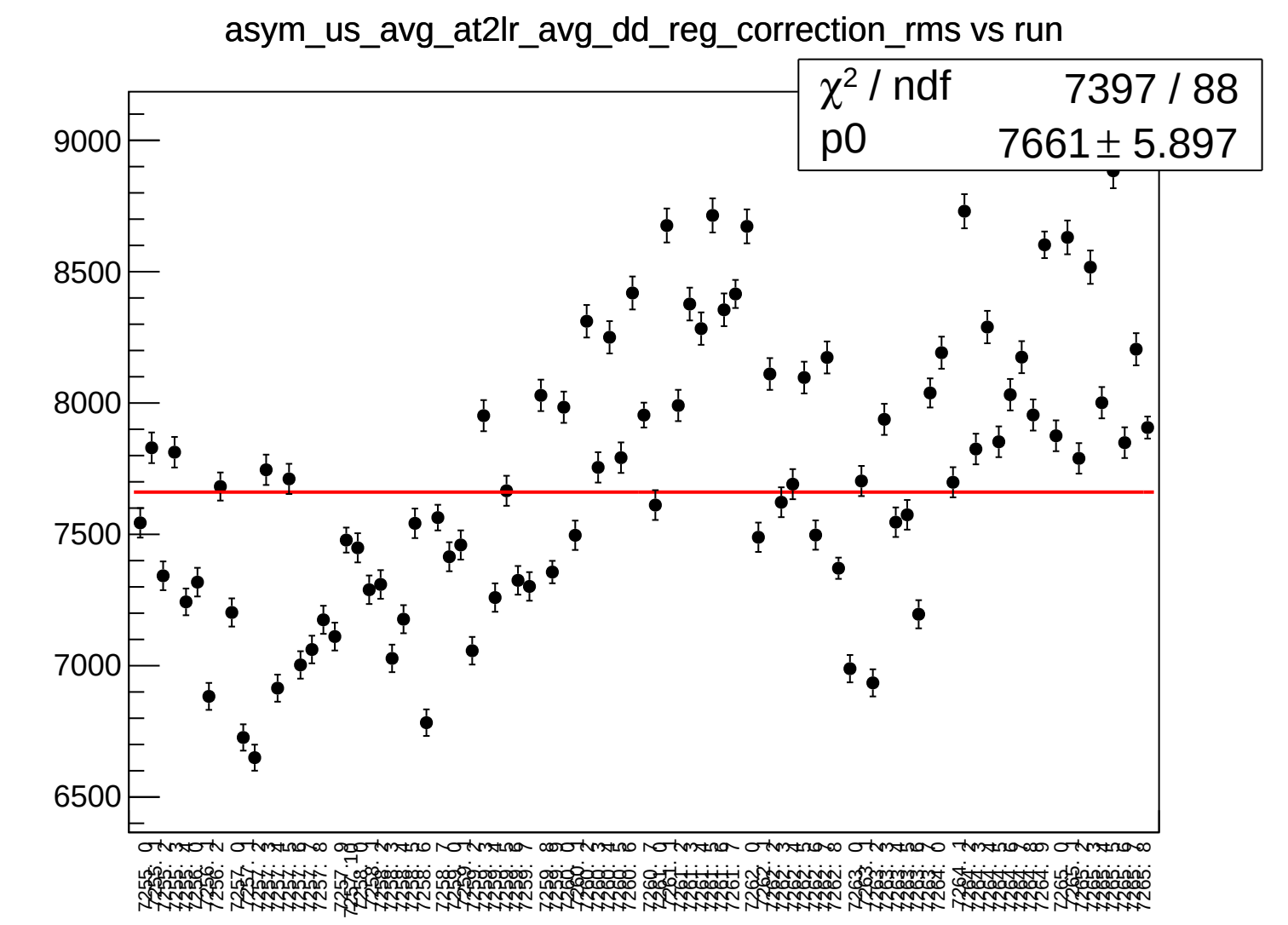

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 6.085e+05 / 88
p0 1.115e−10 ± 1.069e−13

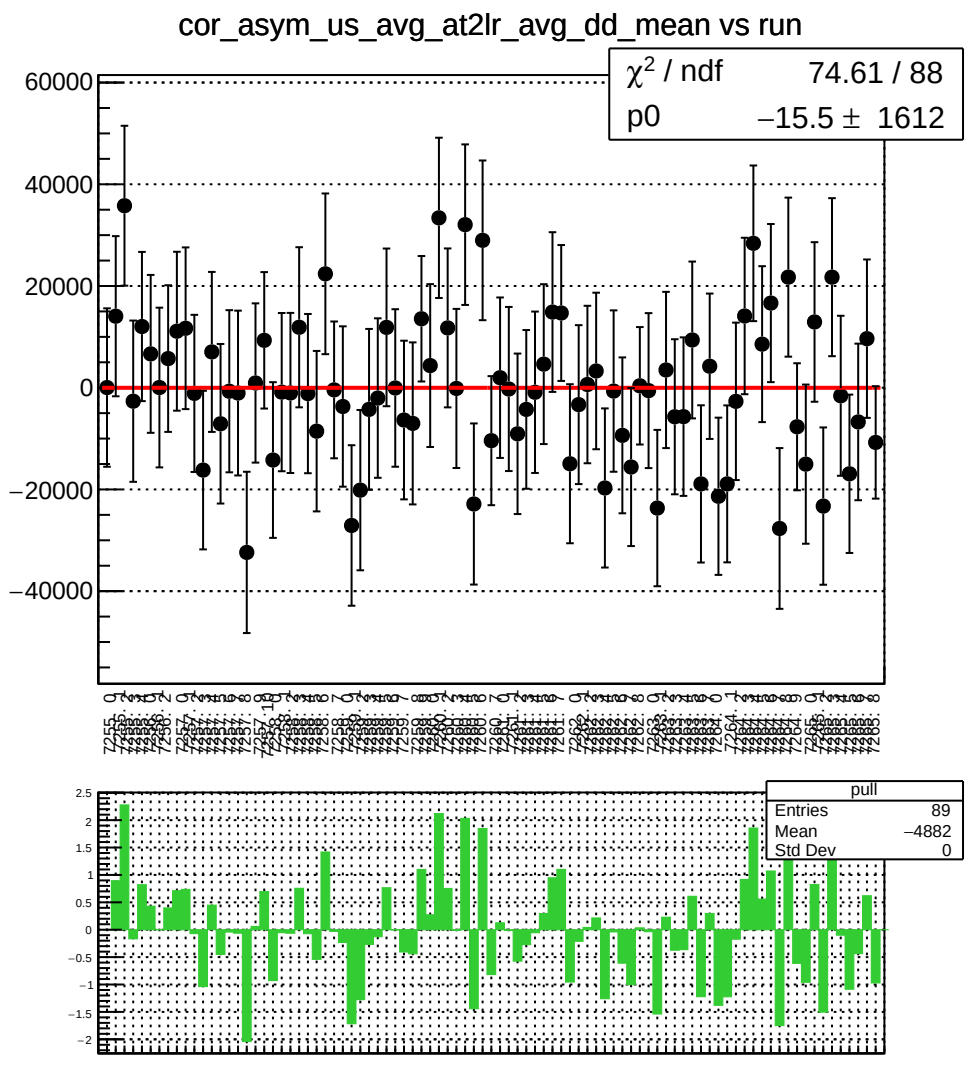

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 74.6 / 88
p0 −15.02 ± 1612
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −4872
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

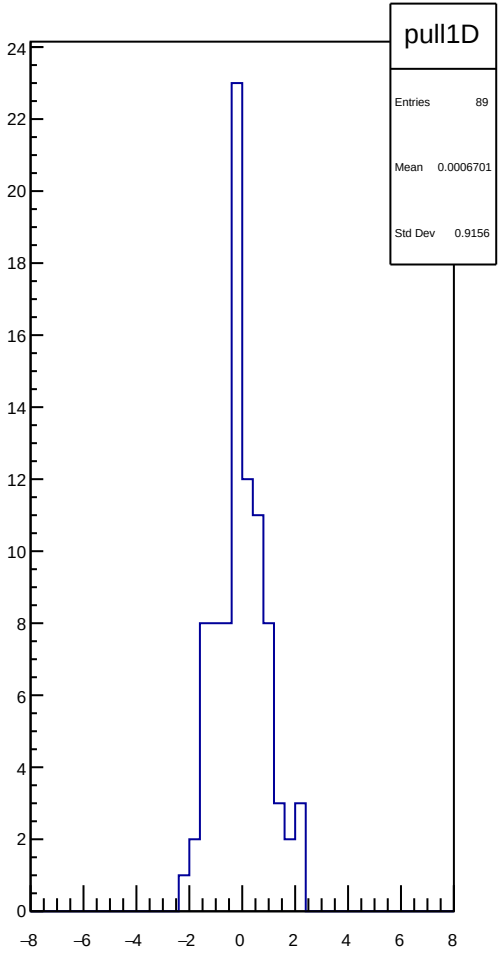

pull1D
Entries 89
Mean 0.0006716
Std Dev 0.9155
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

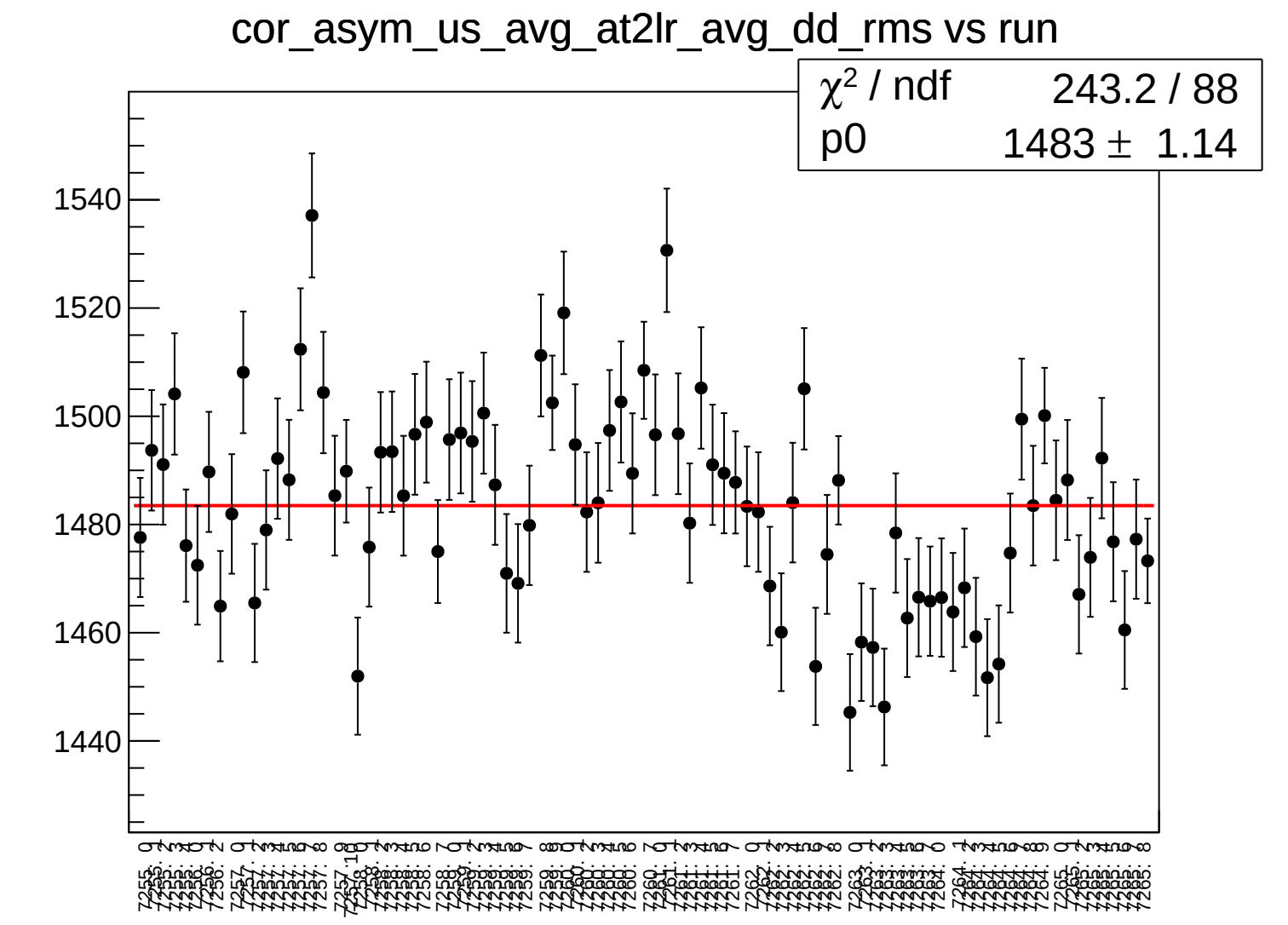

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 243.2 / 88
p0 1483 ± 1.14
1540
1520
1500
1480
1460
1440

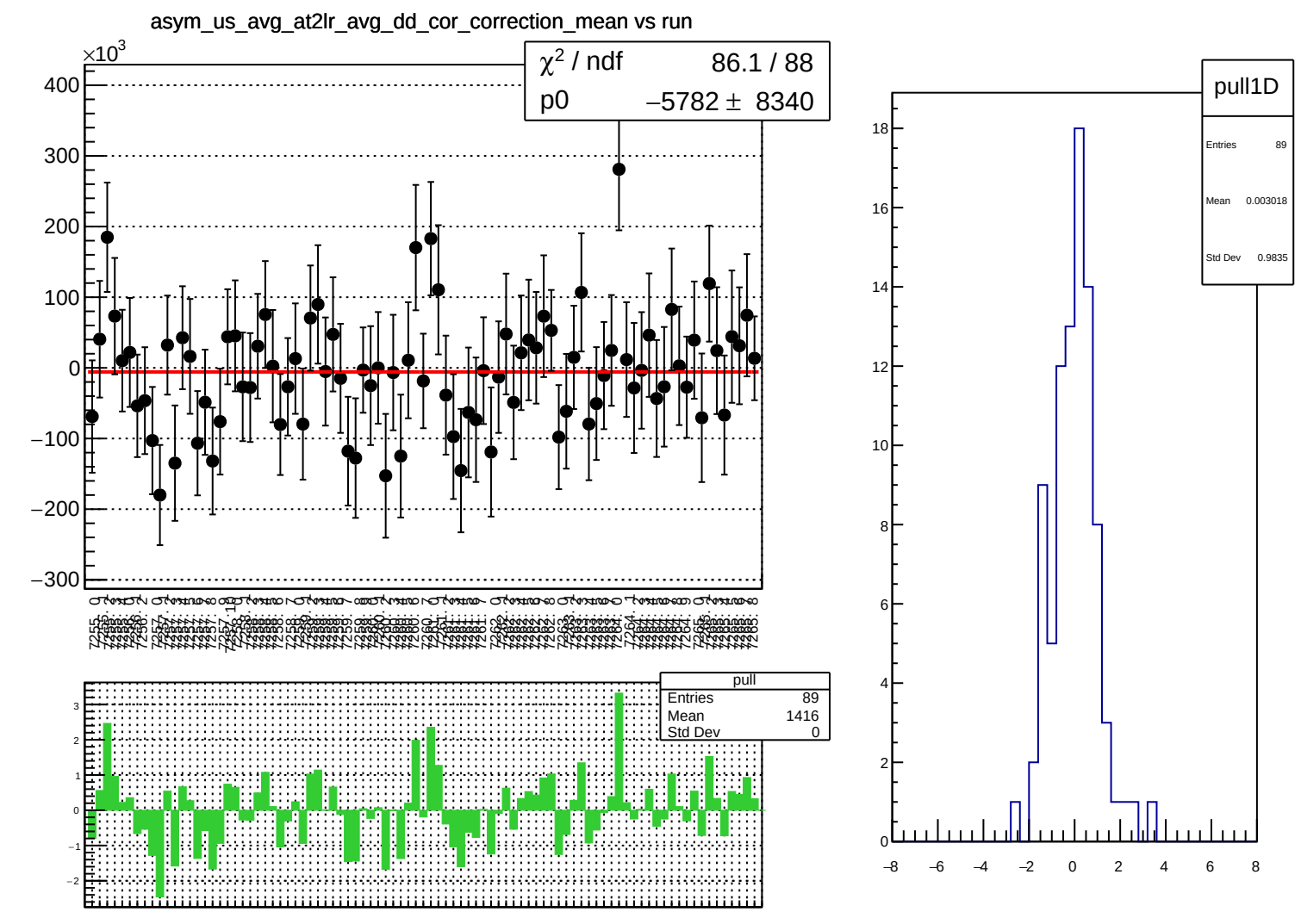

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.1 / 88
p0 −5782 ± 8340
pull
Entries 89
Mean 1414
Std Dev 0
pull1D
Entries 89
Mean 0.003021
Std Dev 0.9835

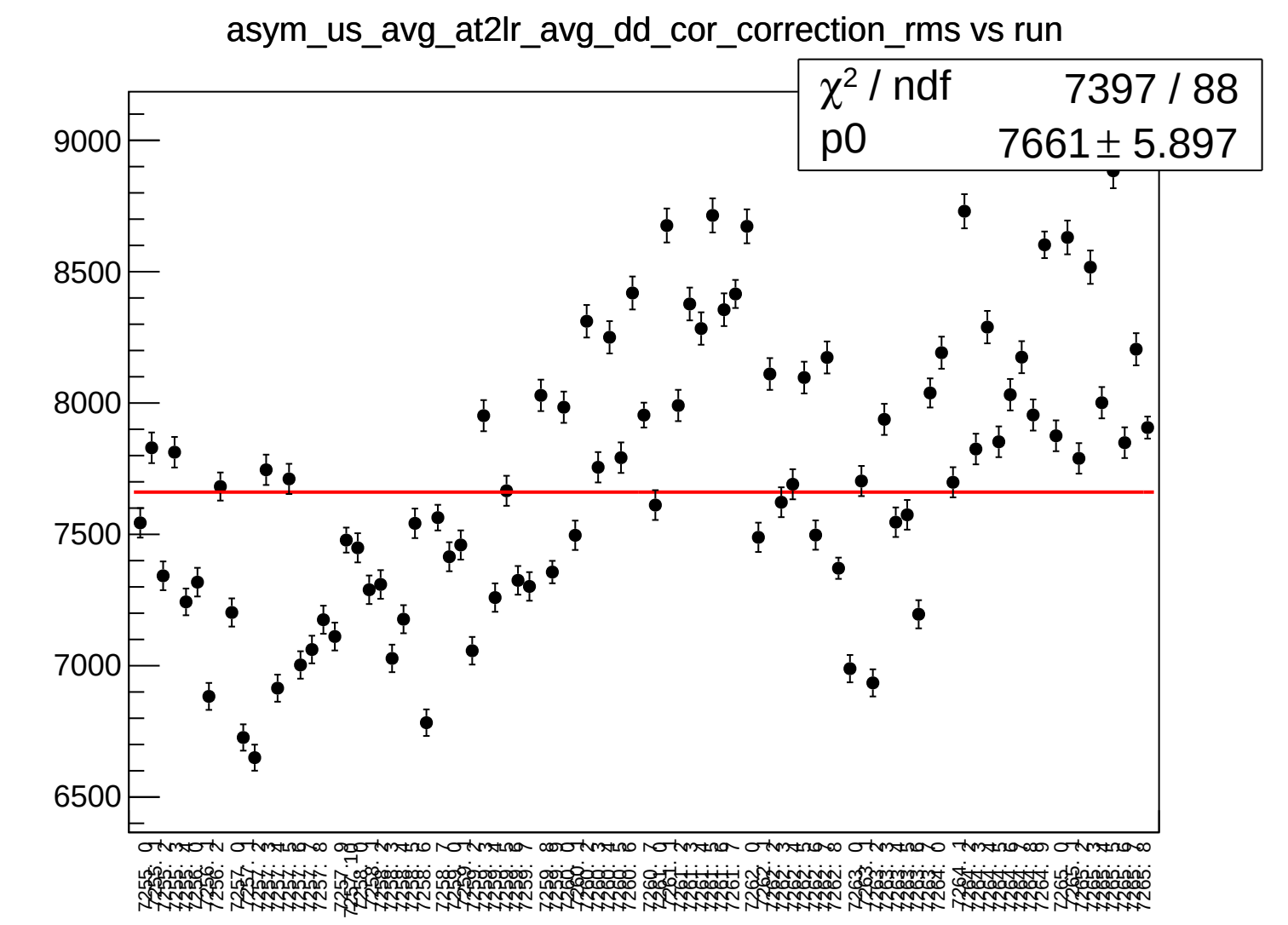

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 7397 / 88
p0 7661 ± 5.897
9000
8500
8000
7500
7000
6500

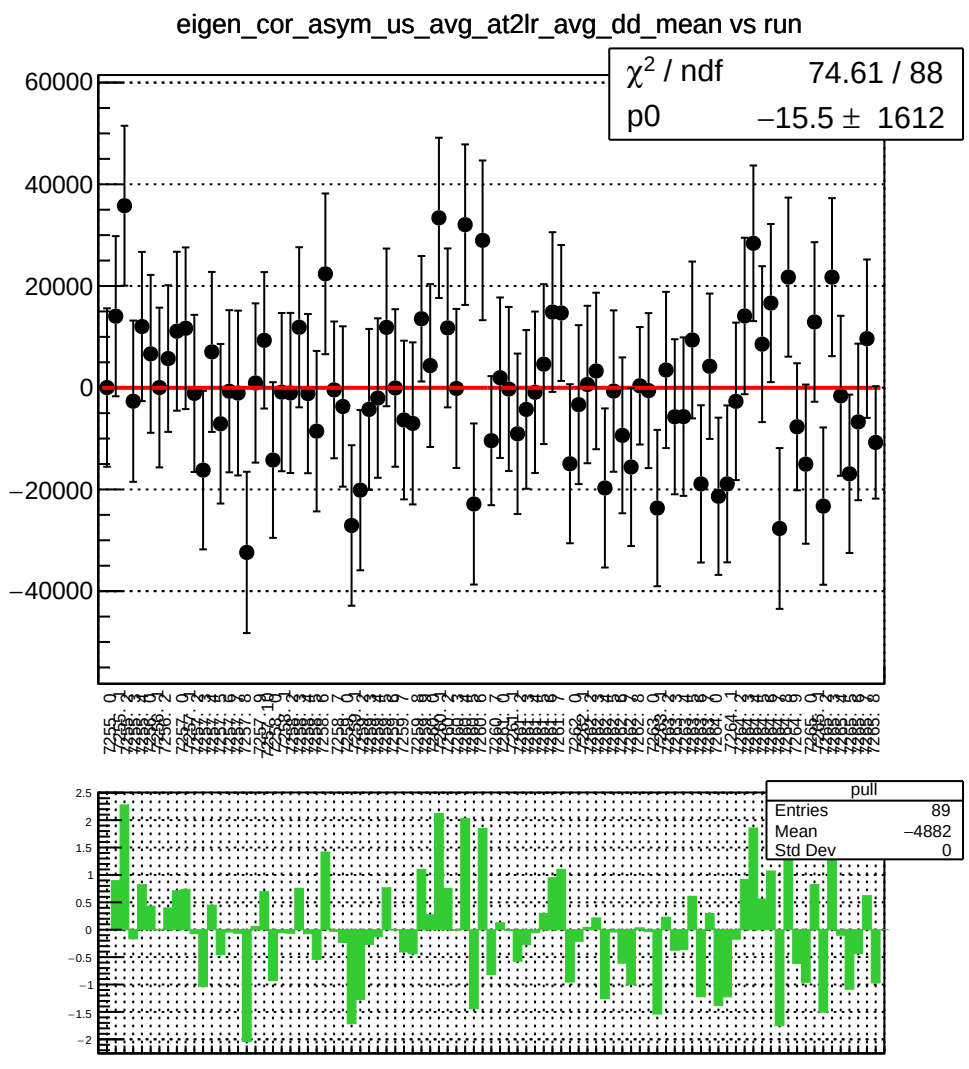

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 74.61 / 88
p0 −15.5 ± 1612
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −4882
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

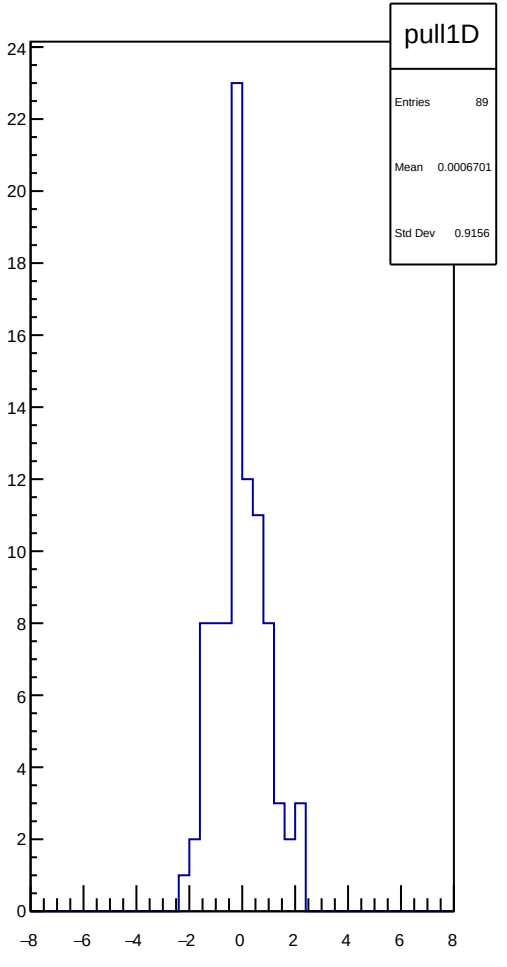

pull1D
Entries 89
Mean 0.0006701
Std Dev 0.9156
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

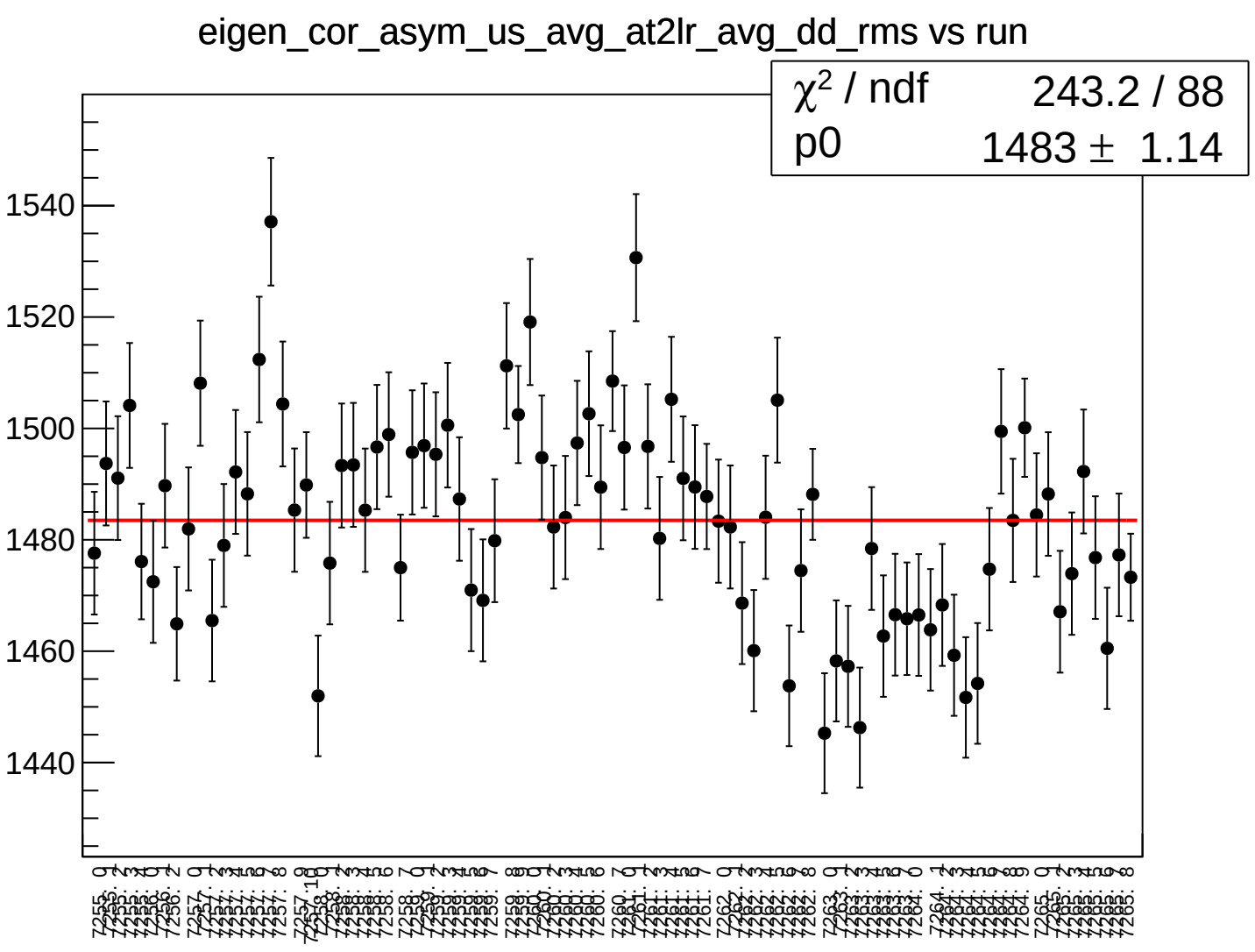

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 243.2 / 88
p0 1483 ± 1.14
1540
1520
1500
1480
1460
1440

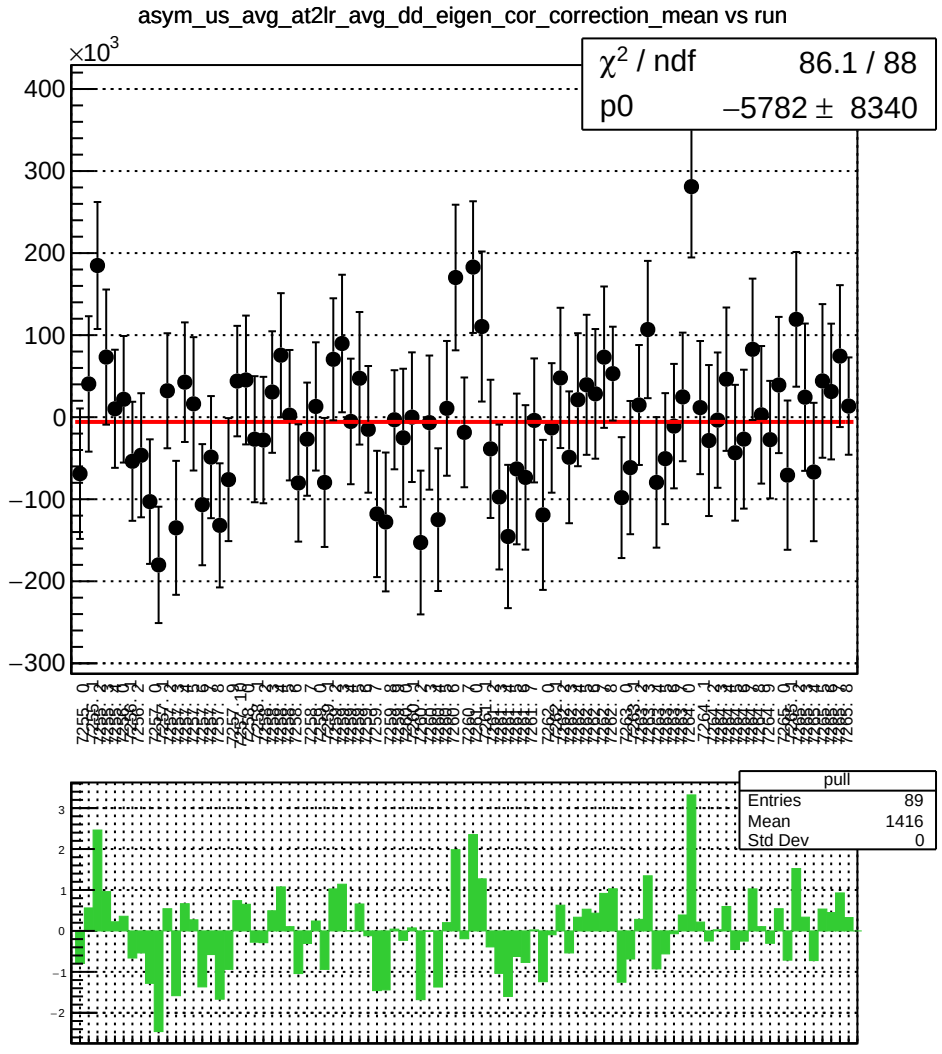

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.1 / 88
p0 −5782 ± 8340
pull
Entries 89
Mean 1416
Std Dev 0
pull1D
Entries 89
Mean 0.003018
Std Dev 0.9835

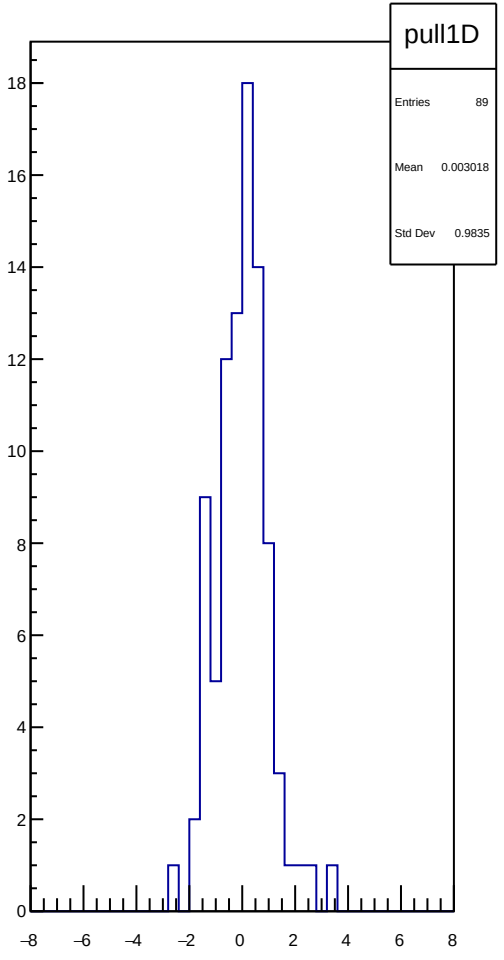

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 7397 / 88
p0 7661 ± 5.897
9000
8500
8000
7500
7000
6500

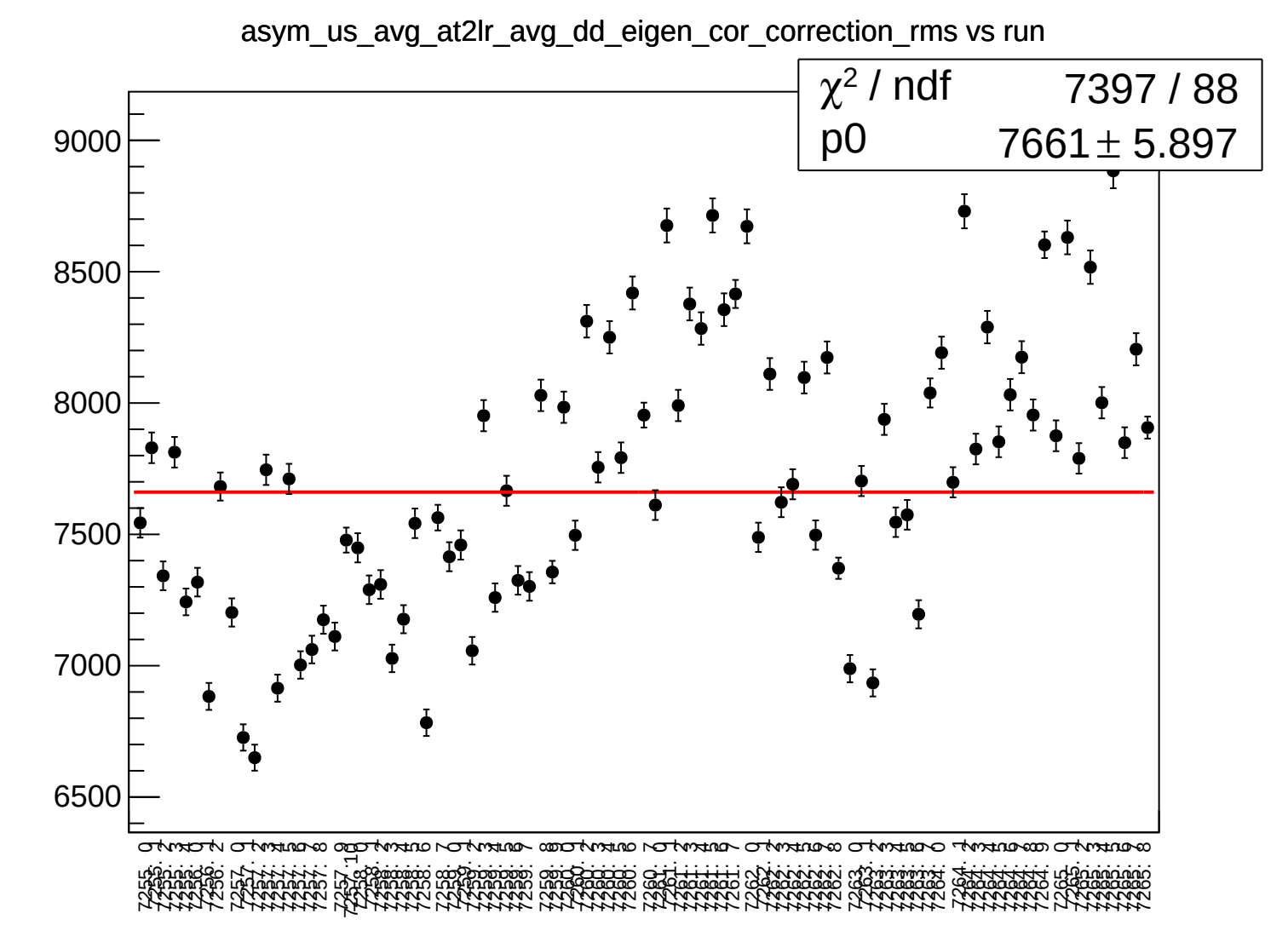

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 74.61 / 88
p0 −15.5 ± 1612
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −4882
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

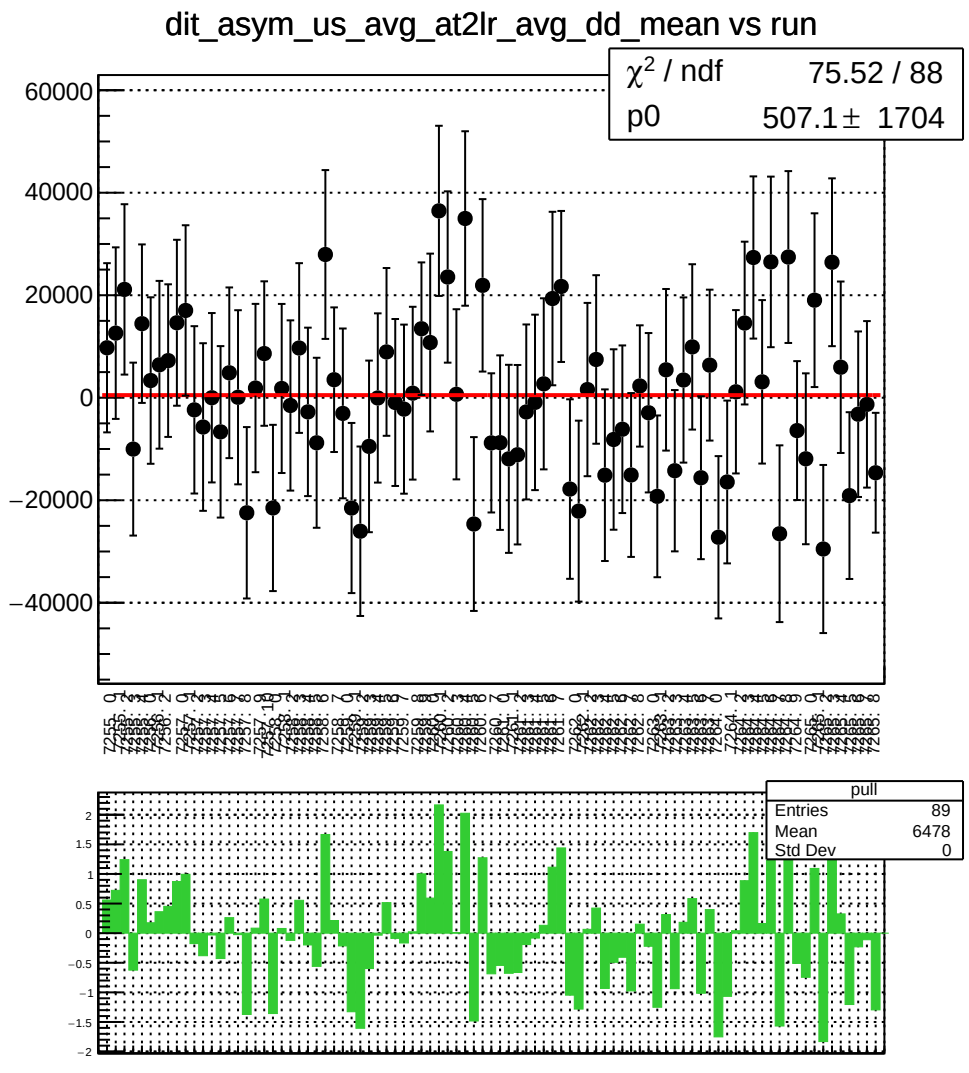

pull1D
Entries 89
Mean 0.0006701
Std Dev 0.9156
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

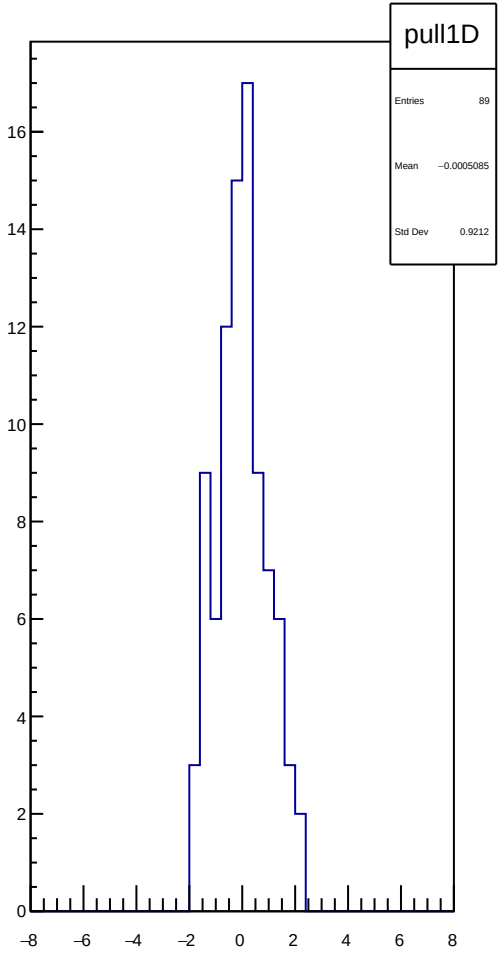

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 243.2 / 88
p0 1483 ± 1.14
1540
1520
1500
1480
1460
1440

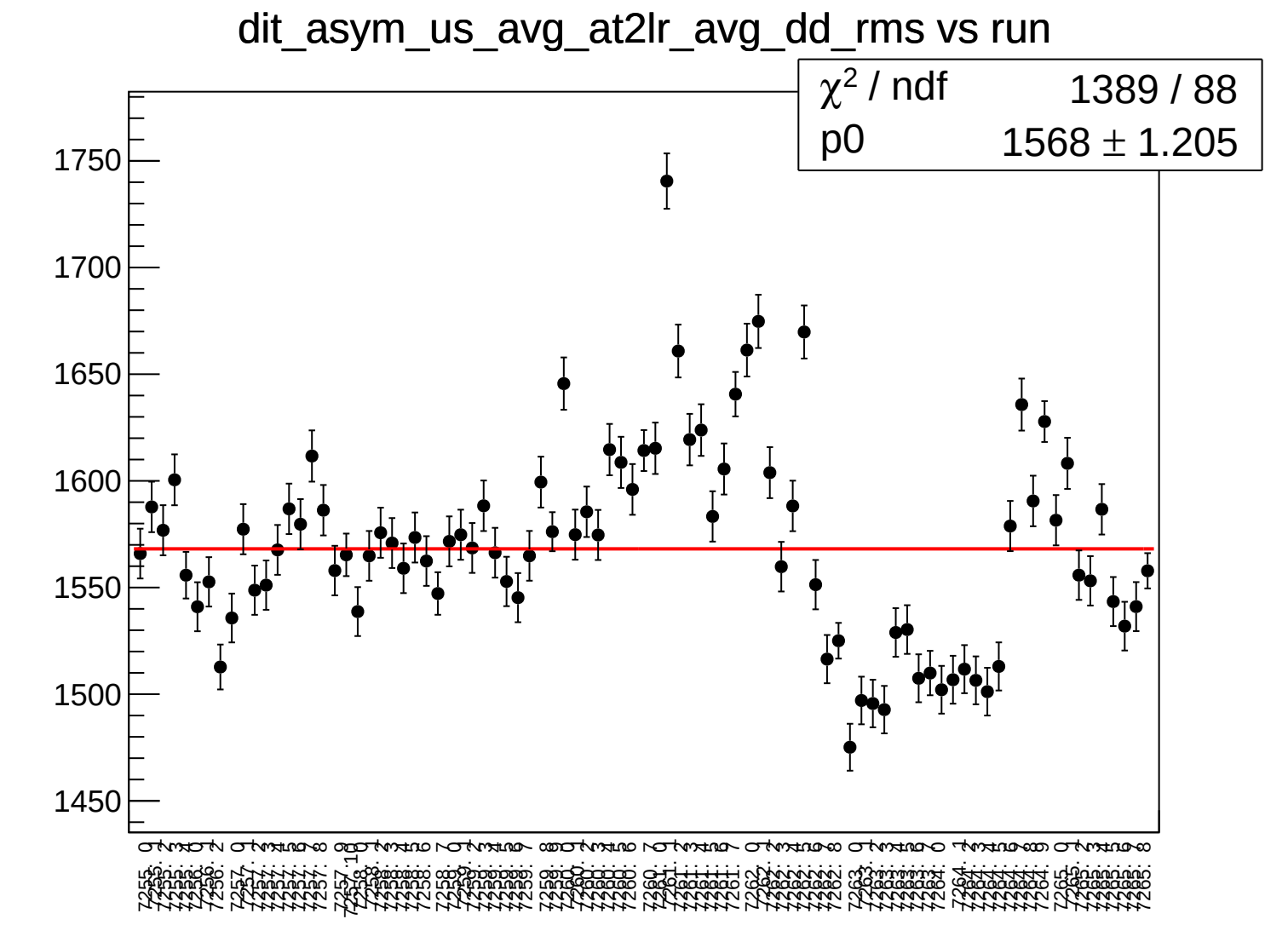

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.1 / 88
p0 −5782 ± 8340
pull
Entries 89
Mean 1416
Std Dev 0

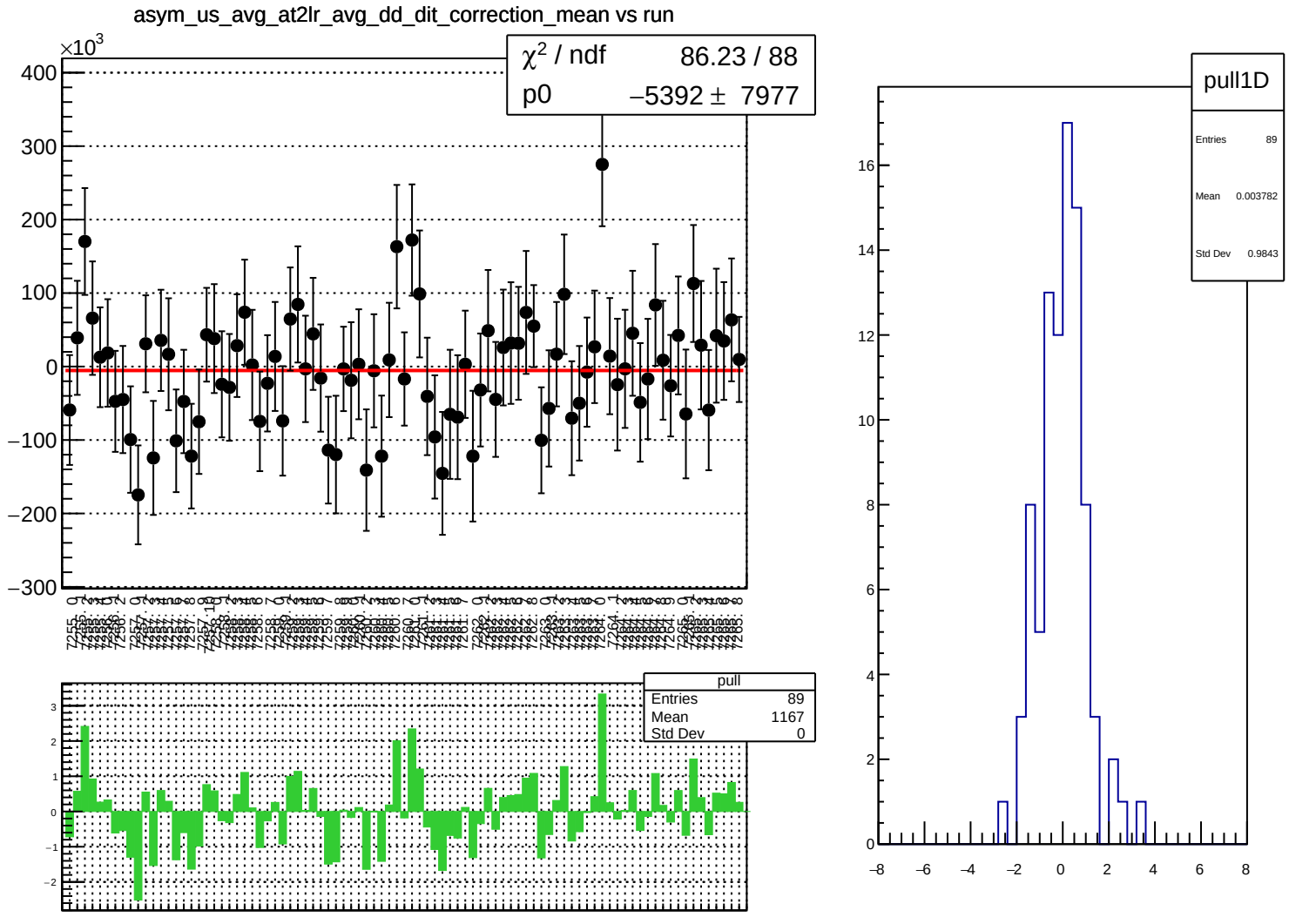

pull1D
Entries 89
Mean 0.003018
Std Dev 0.9835

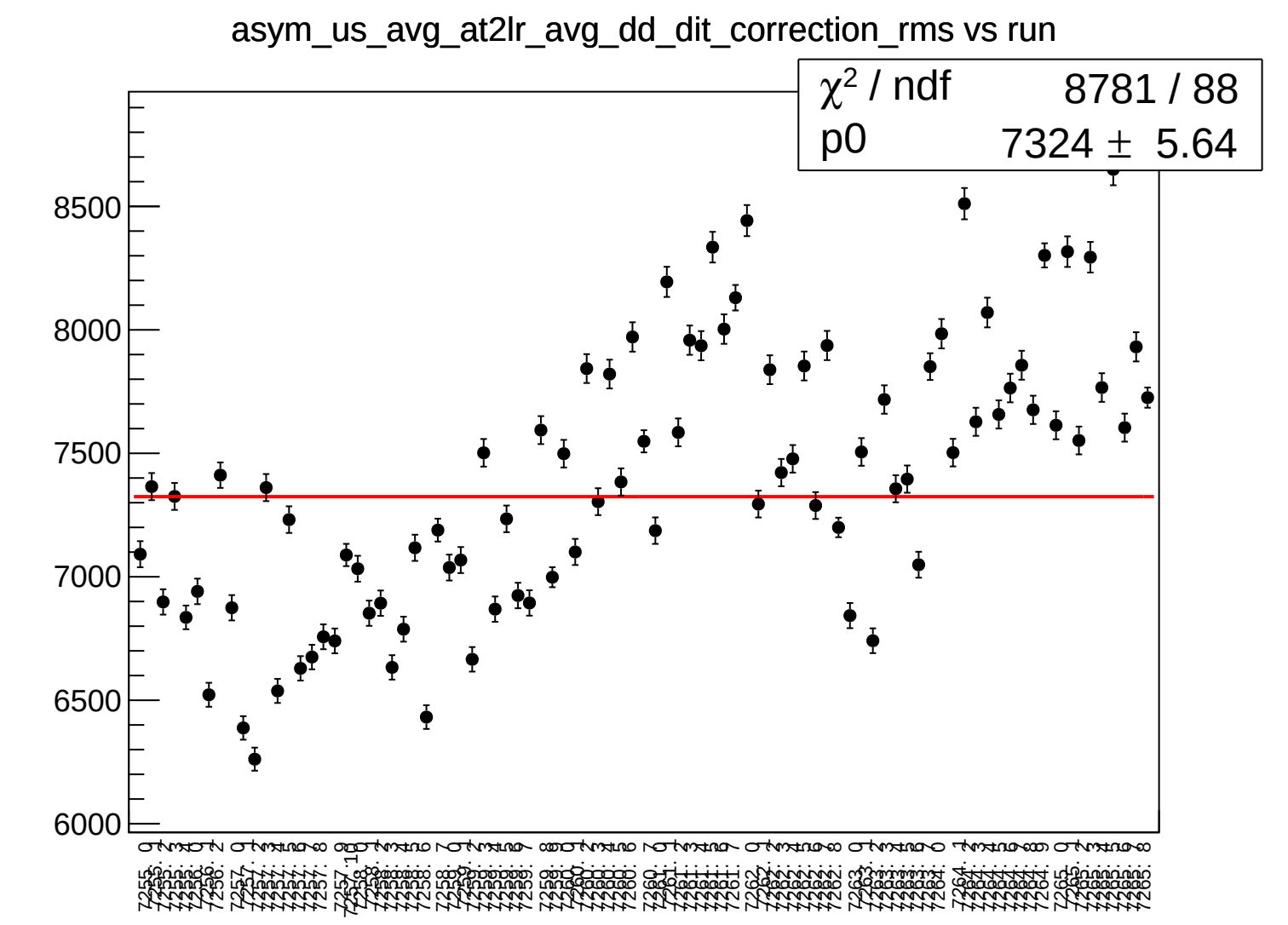

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7397 / 88
p0 7661 ± 5.897
9000
8500
8000
7500
7000
6500

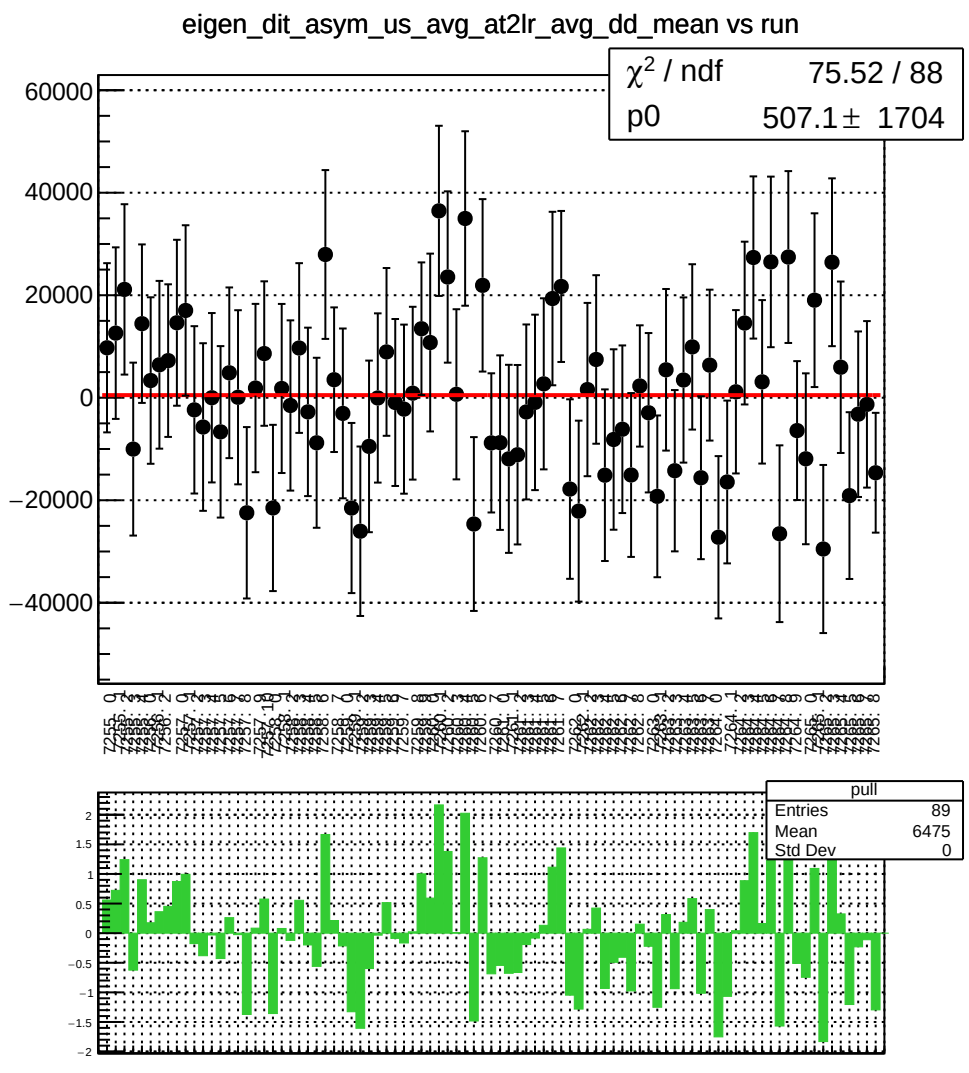

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 75.52 / 88
p0 507.1± 1704
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 6478
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

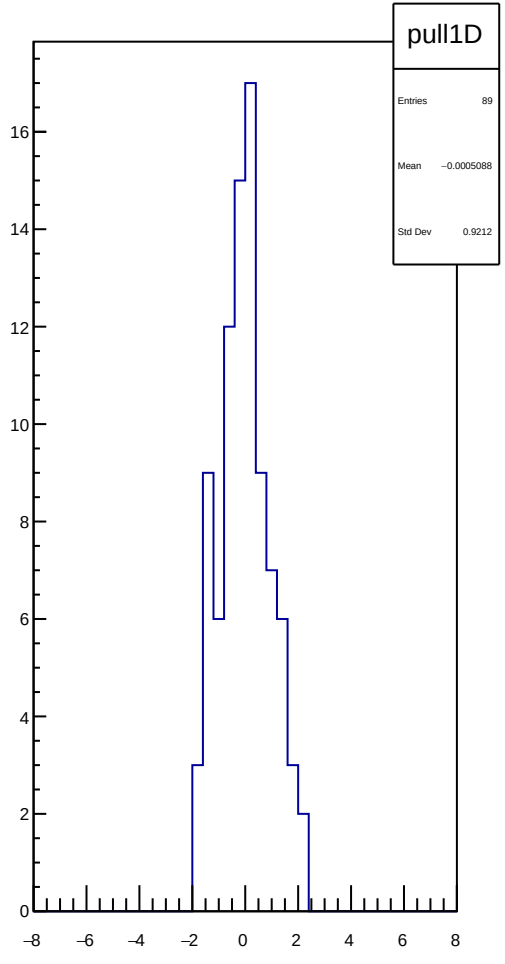

pull1D
Entries 89
Mean −0.0005085
Std Dev 0.9212
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

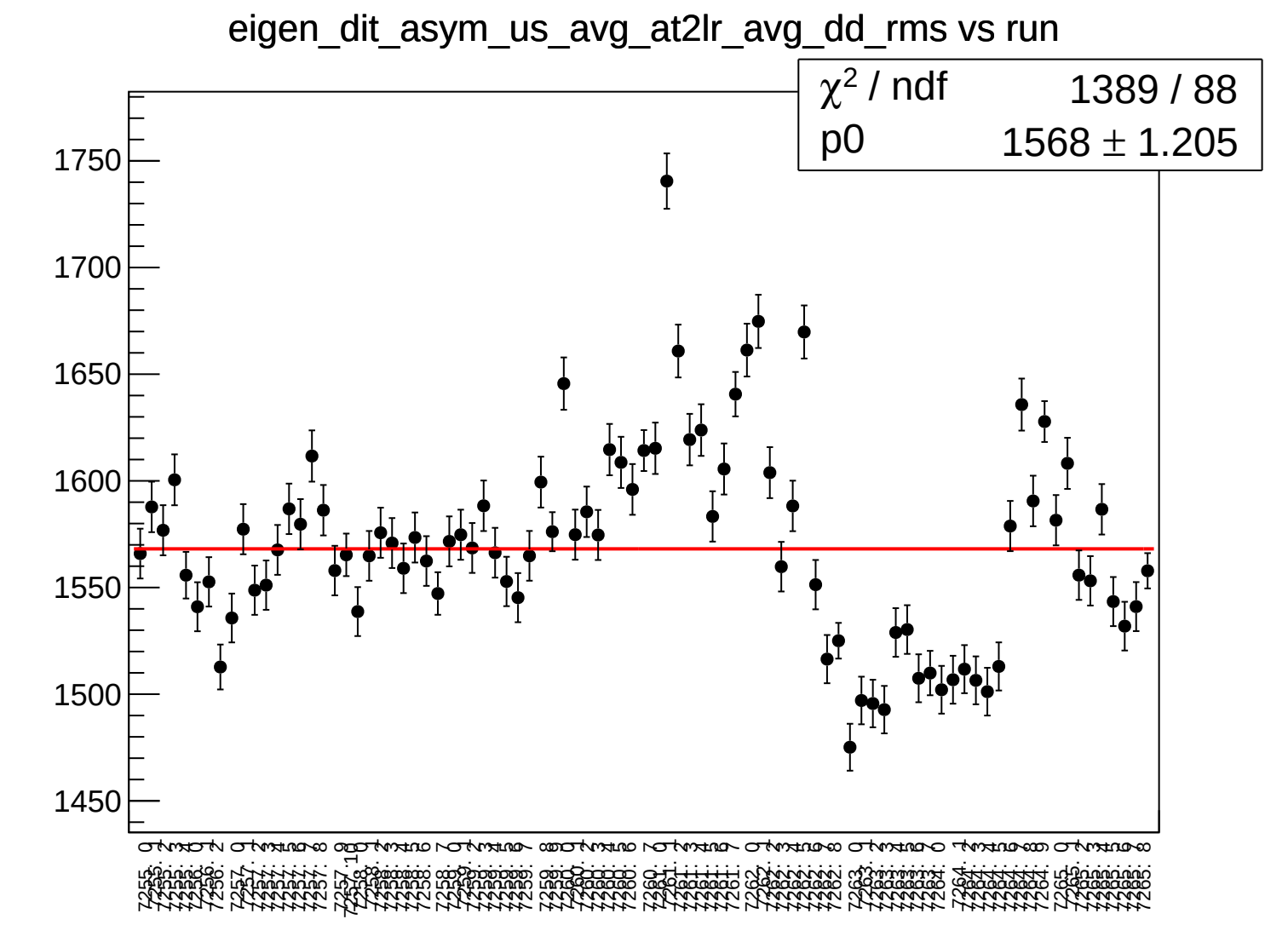

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1389 / 88
p0 1568 ± 1.205
1750
1700
1650
1600
1550
1500
1450

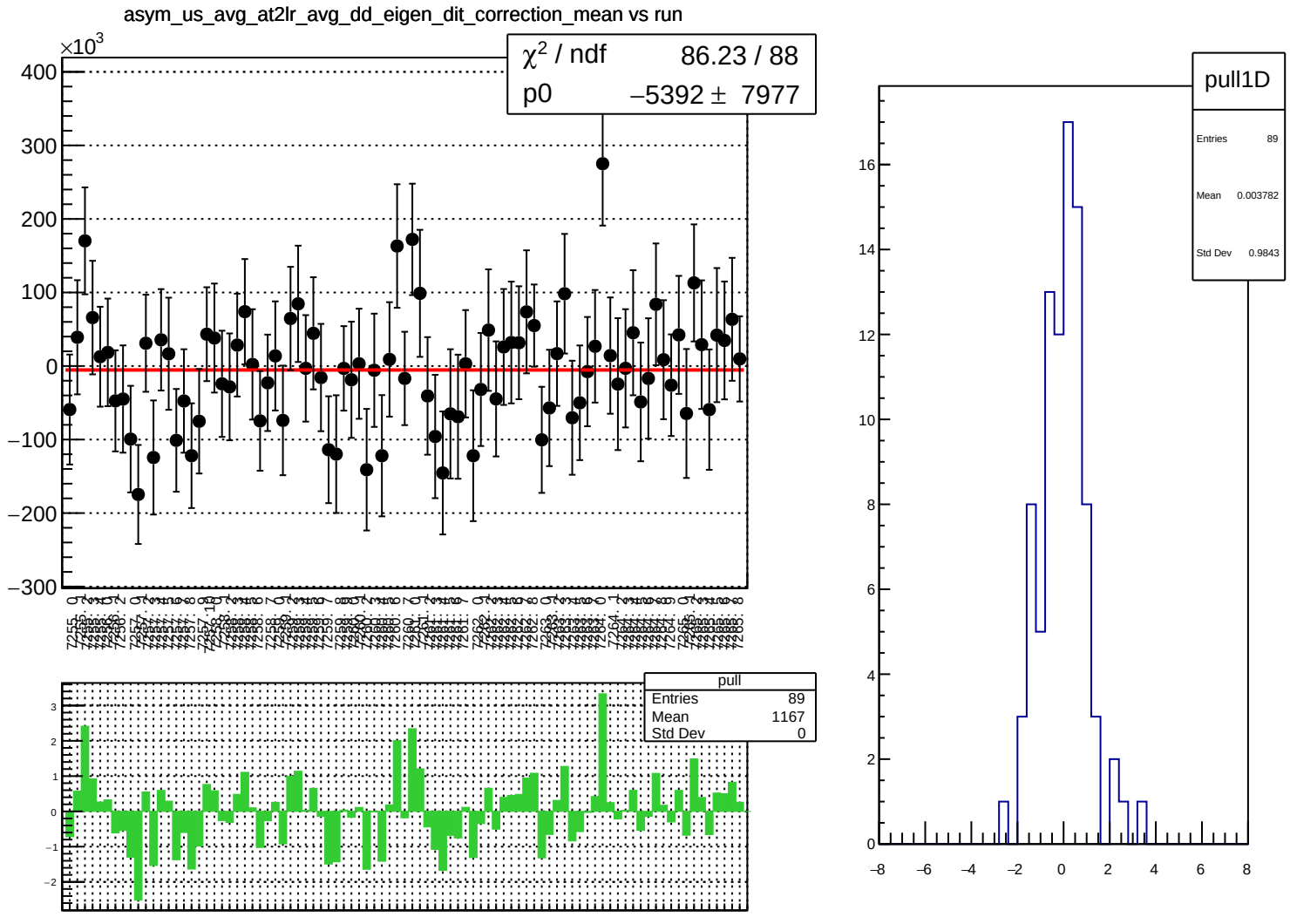

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.23 / 88
p0 −5392 ± 7977
pull
Entries 89
Mean 1167
Std Dev 0
pull1D
Entries 89
Mean 0.003782
Std Dev 0.9843

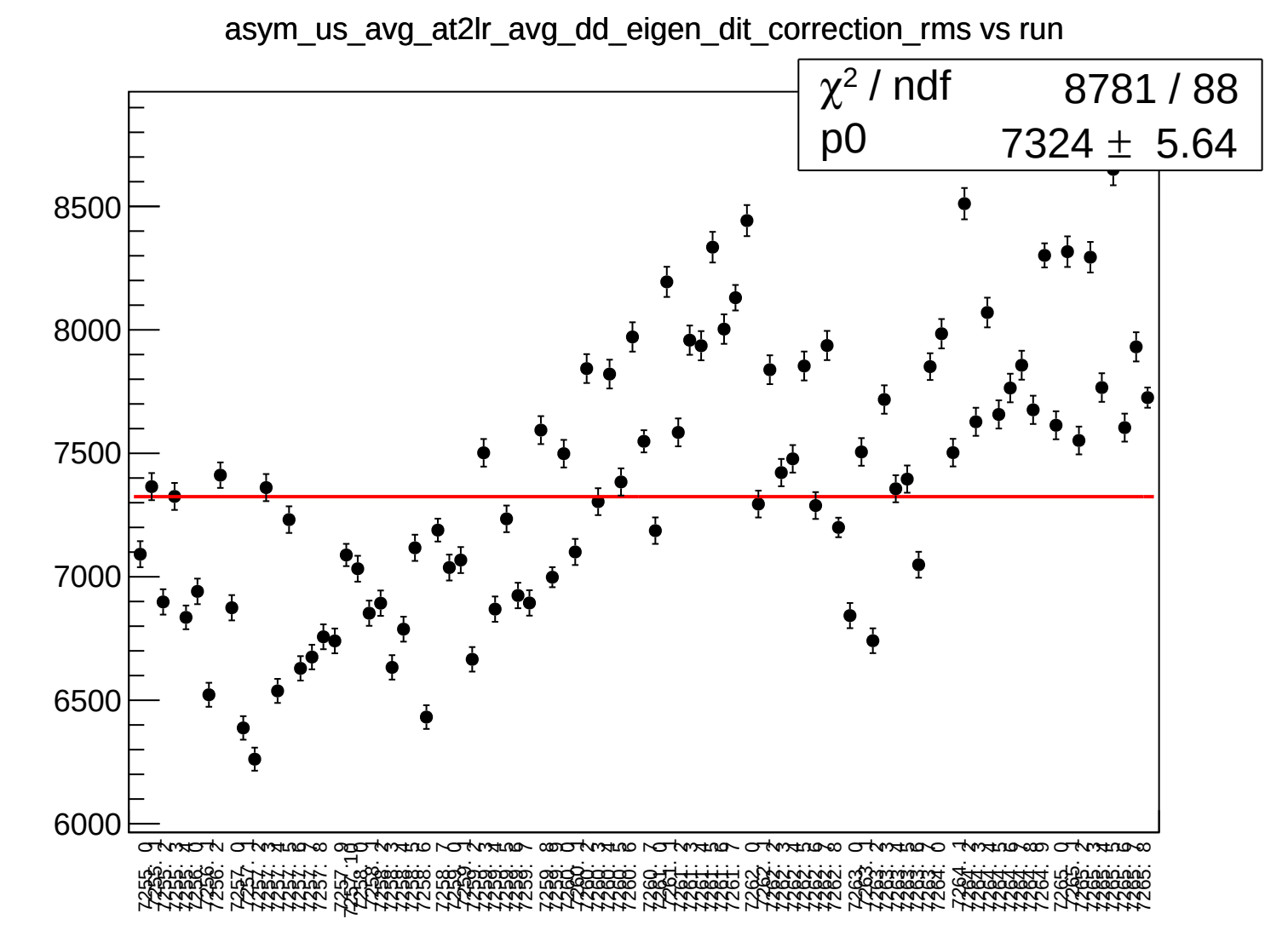

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 8781 / 88
p0 7324 ± 5.64
8500
8000
7500
7000
6500
6000

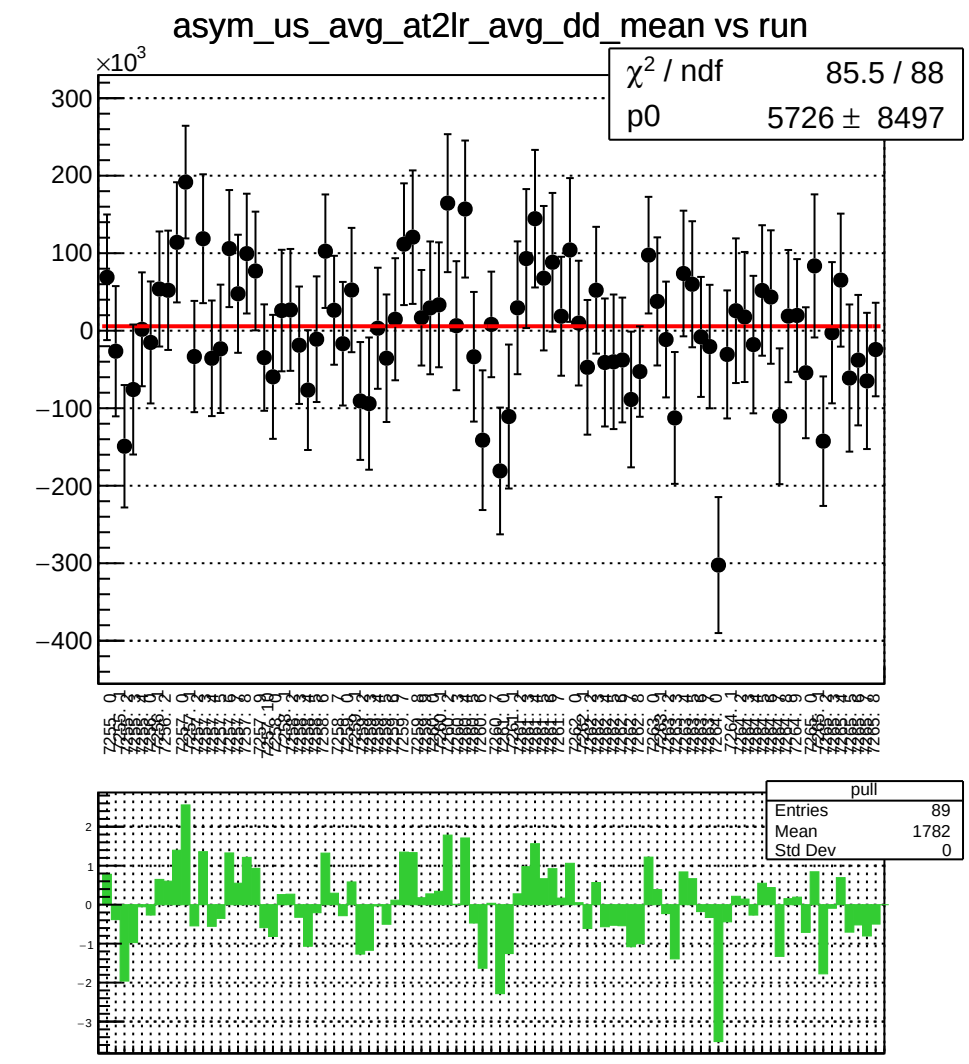

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 75.52 / 88
p0 507.1 ± 1704
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 6475
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

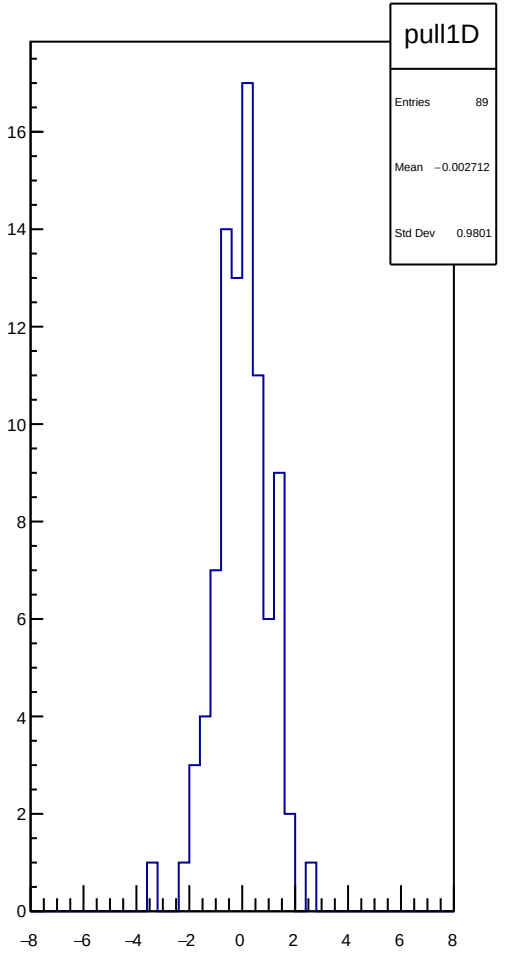

pull1D
Entries 89
Mean −0.0005088
Std Dev 0.9212
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

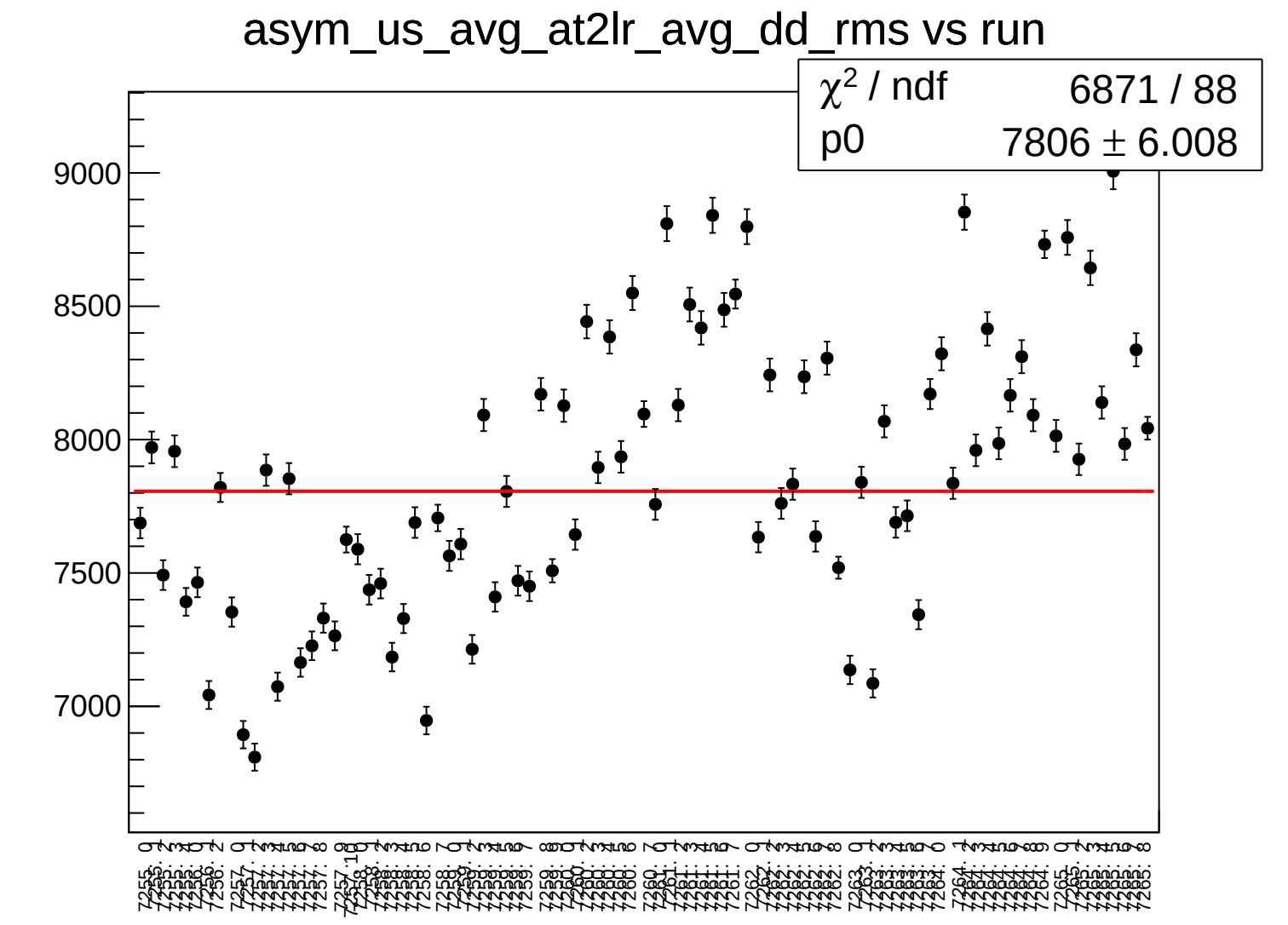

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1389 / 88
p0 1568 ± 1.205
1750
1700
1650
1600
1550
1500
1450

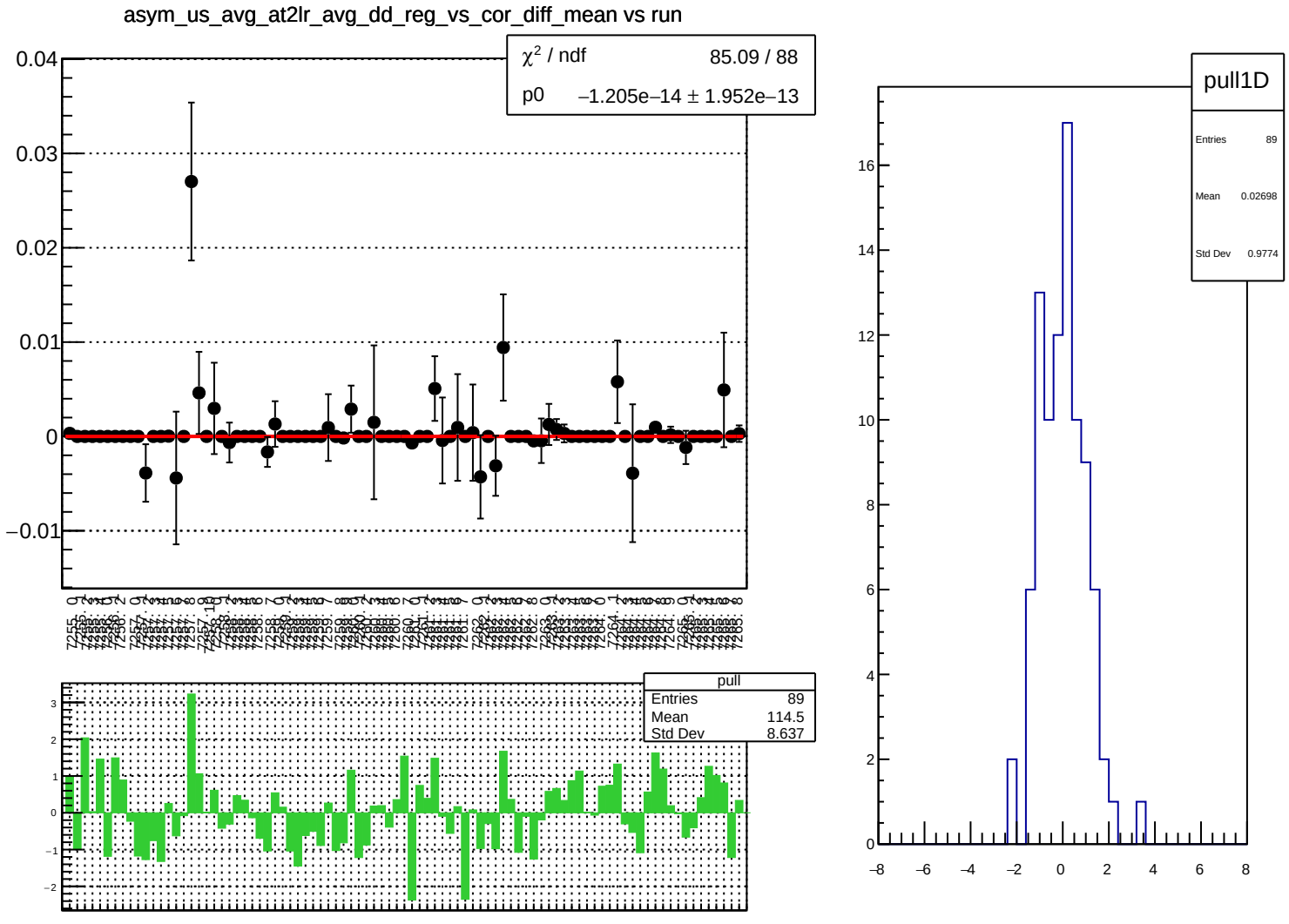

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.23 / 88
p0 −5392 ± 7977
pull
Entries 89
Mean 1167
Std Dev 0
pull1D
Entries 89
Mean 0.003782
Std Dev 0.9843

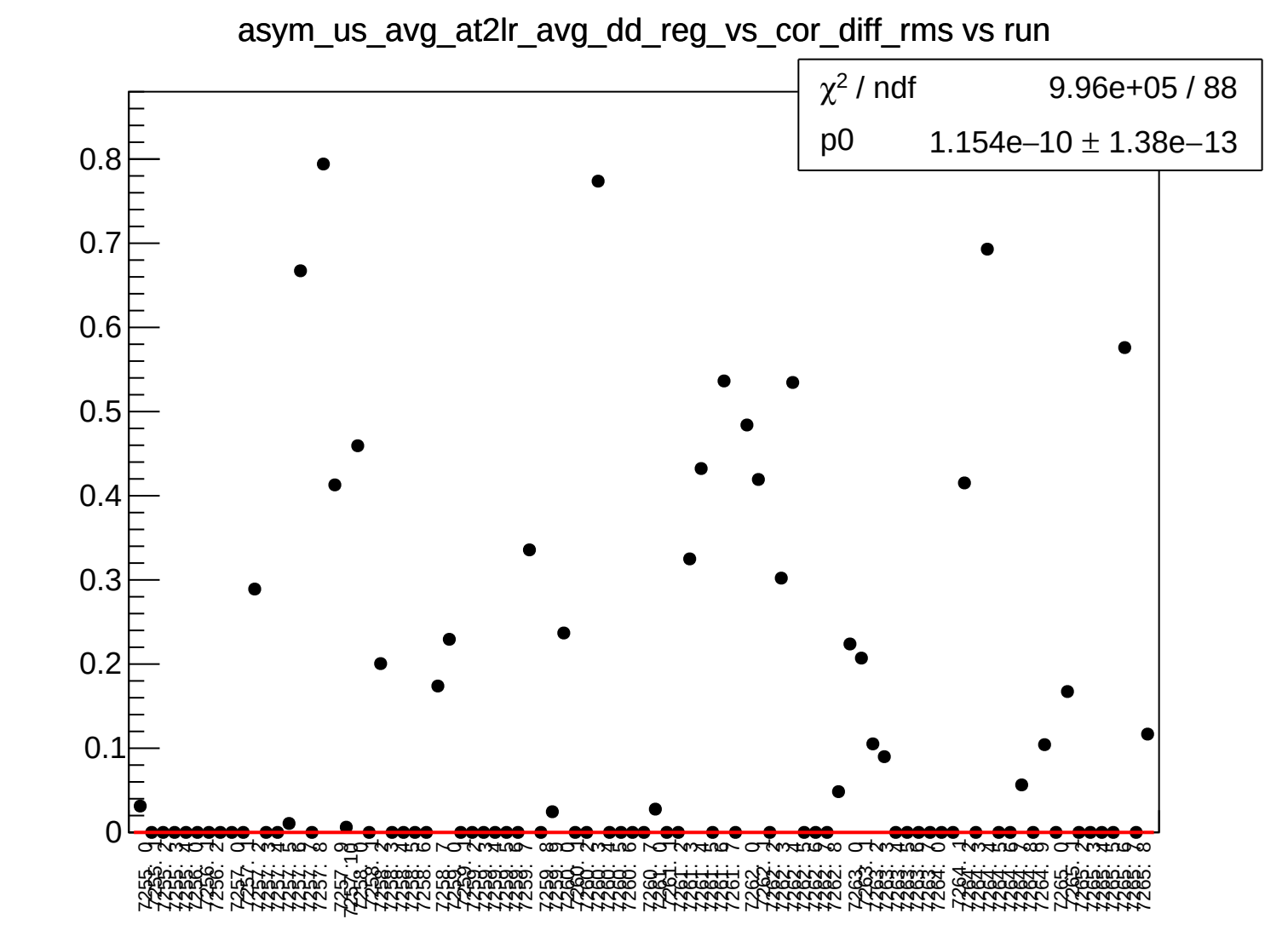

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 8781 / 88
p0 7324 ± 5.64
8500
8000
7500
7000
6500
6000

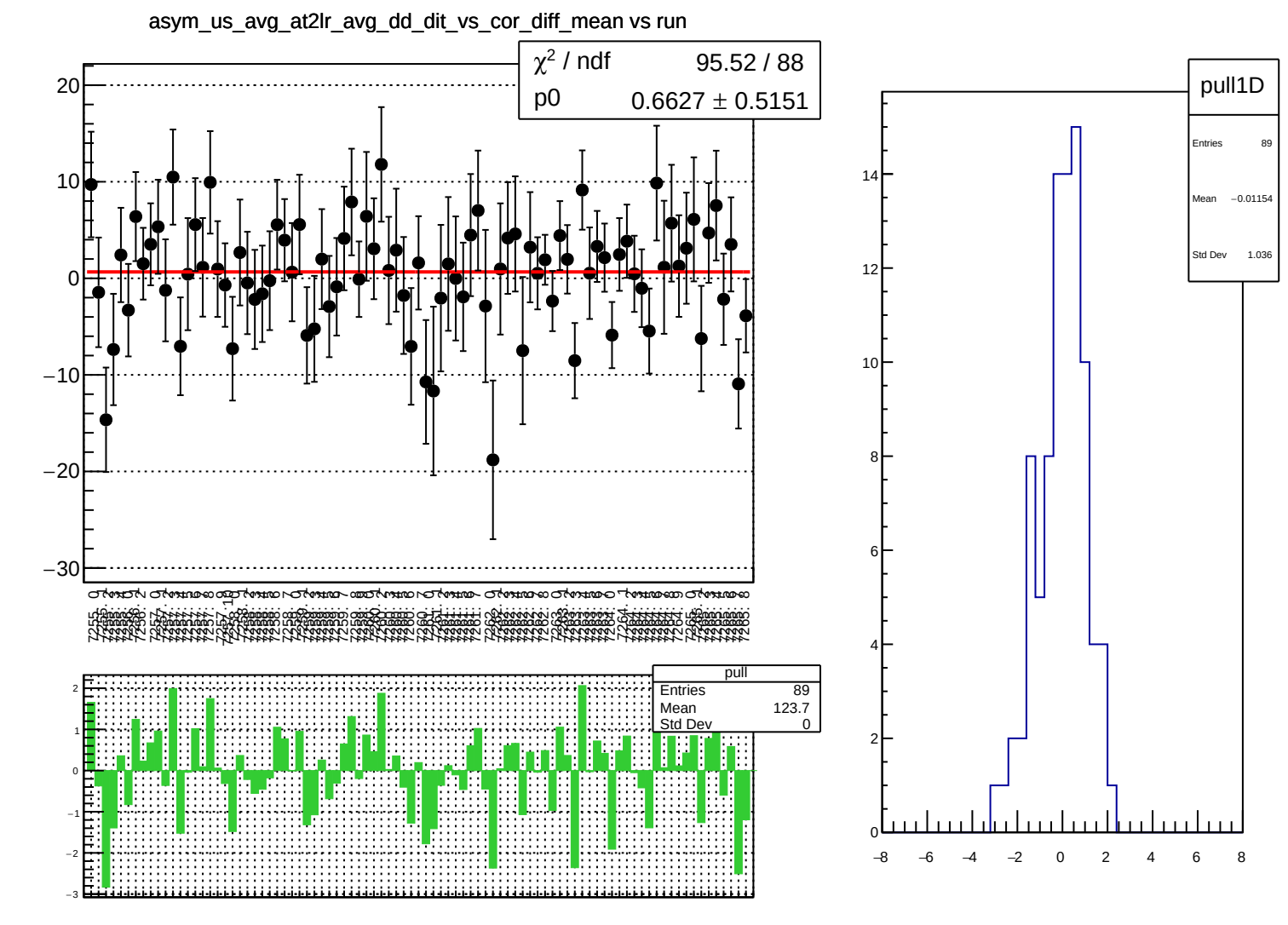

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 85.5 / 88
p0 5726 ± 8497
pull
Entries 89
Mean 1782
Std Dev 0

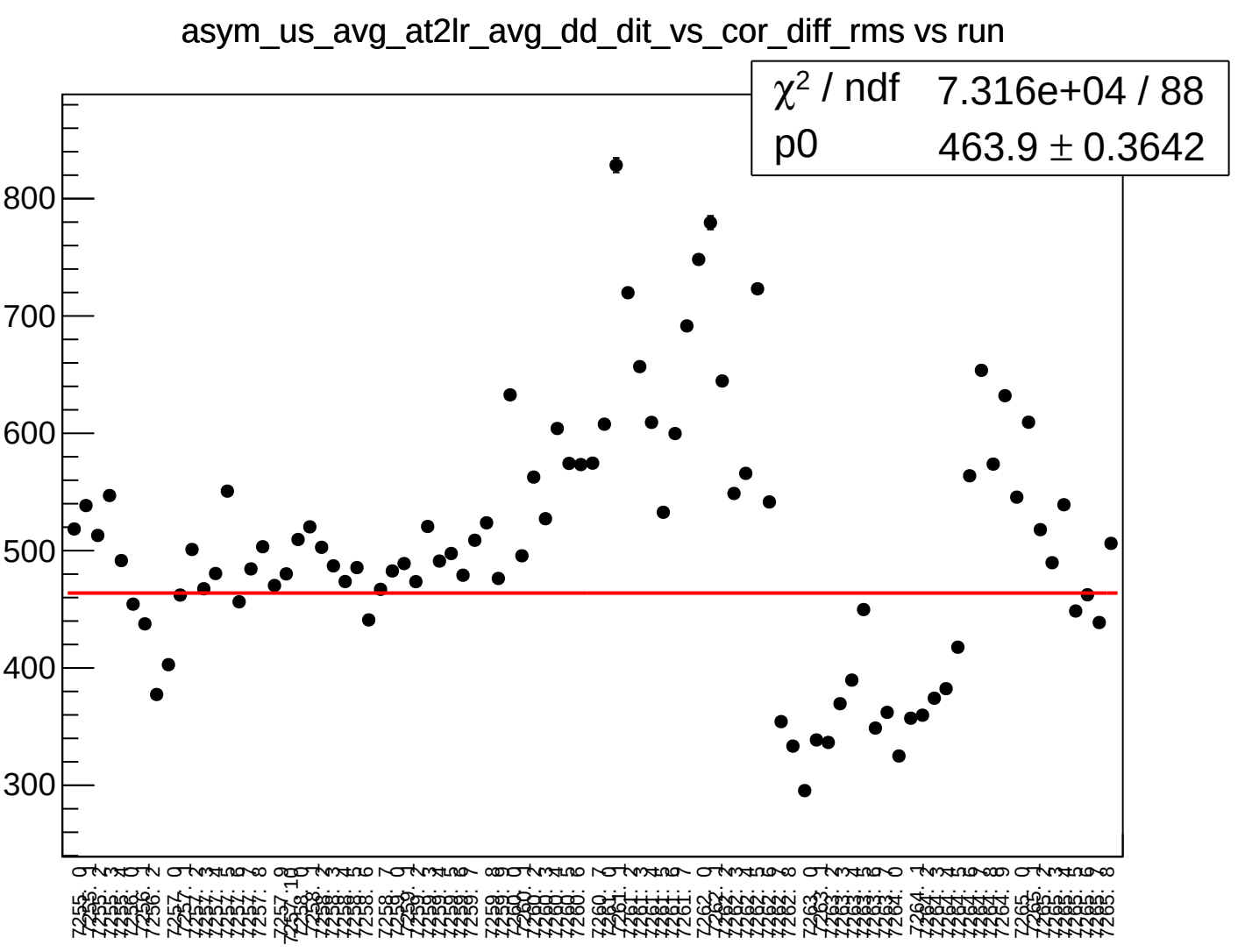

pull1D
Entries 89
Mean −0.002712
Std Dev 0.9801

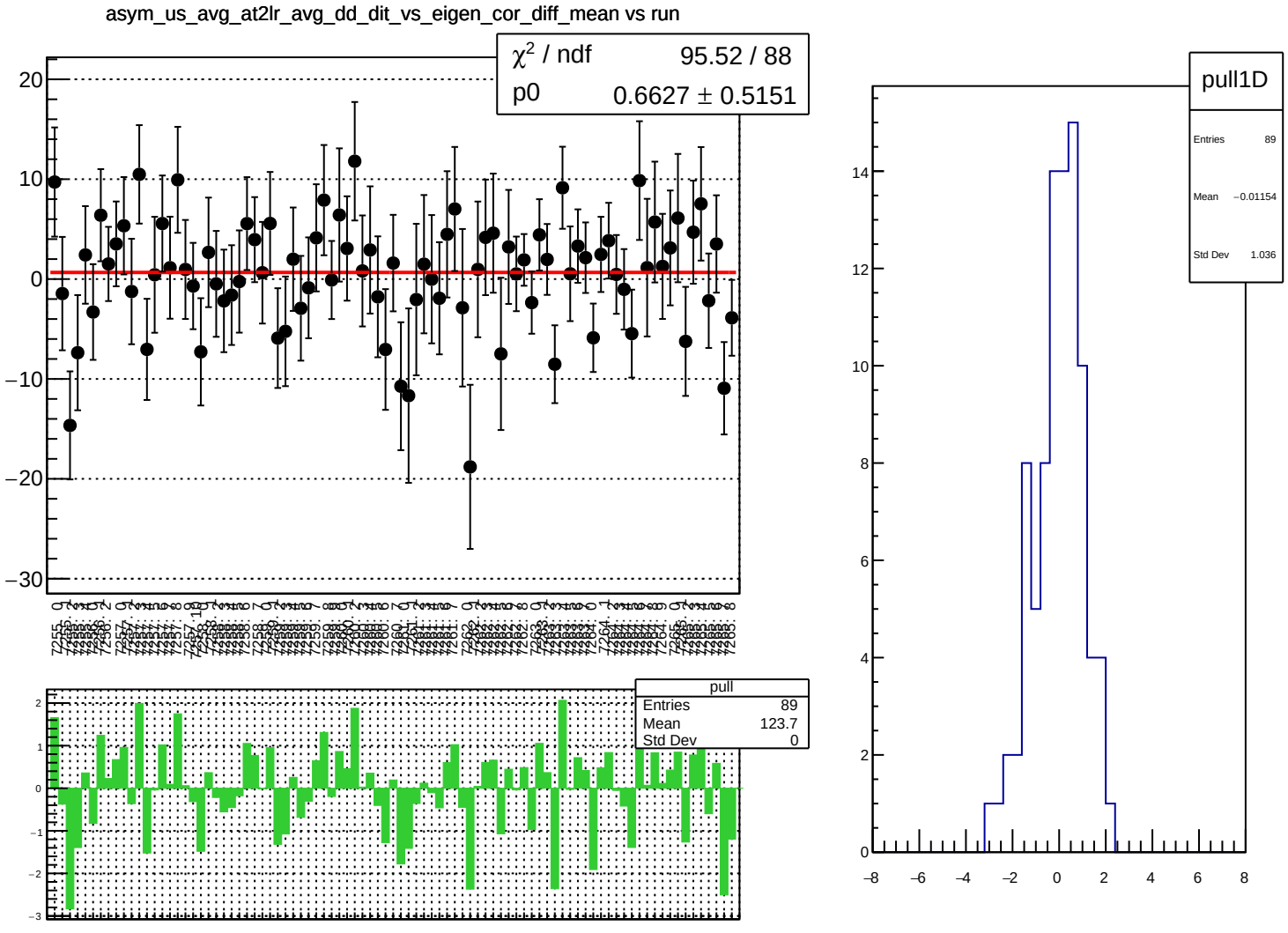

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 6871 / 88
p0 7806 ± 6.008
9000
8500
8000
7500
7000

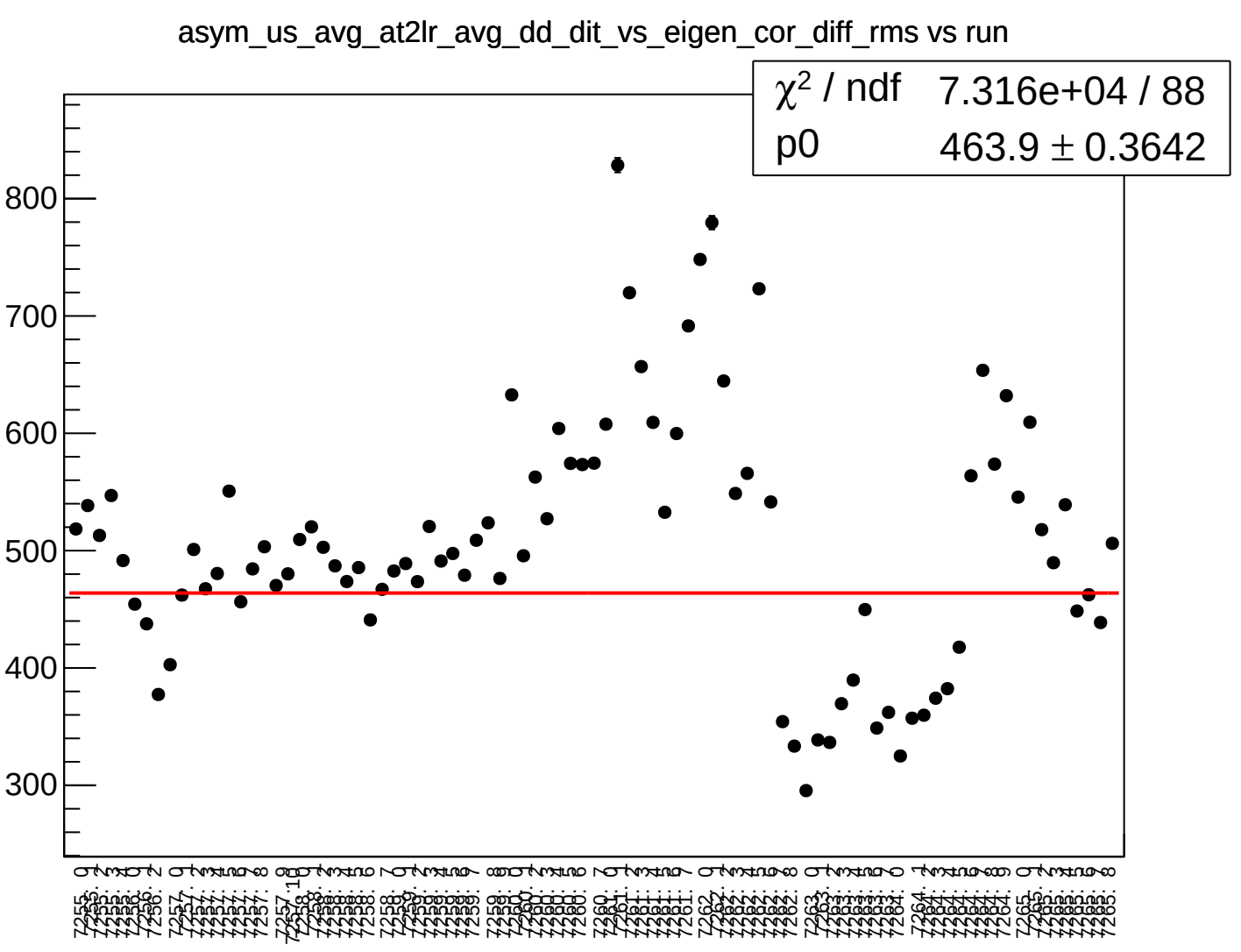

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.09 / 88
p0 −1.205e−14 ± 1.952e−13
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 89
Mean 114.5
Std Dev 8.637
pull1D
Entries 89
Mean 0.02698
Std Dev 0.9774
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

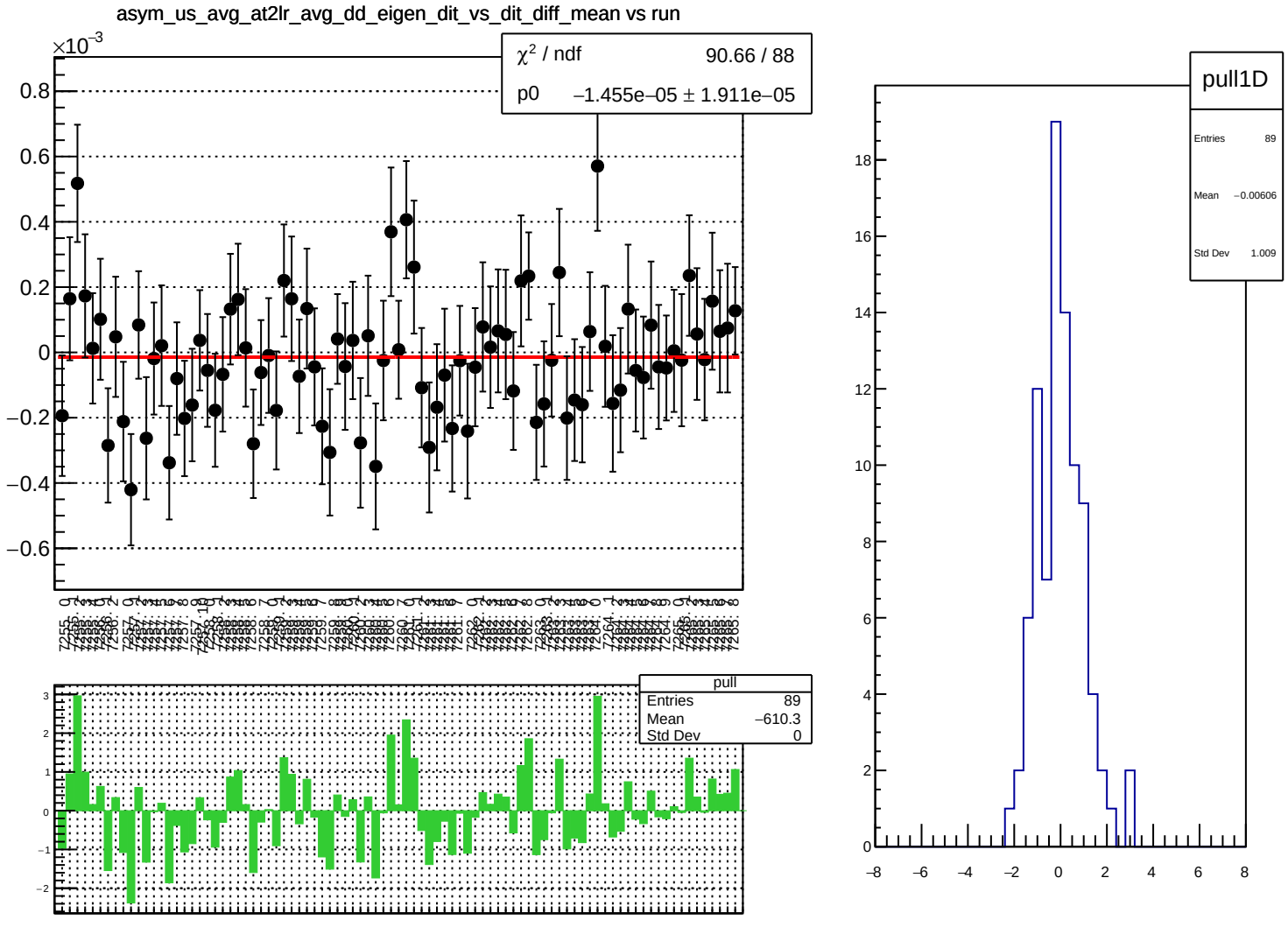

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.96e+05 / 88
p0 1.154e−10 ± 1.38e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

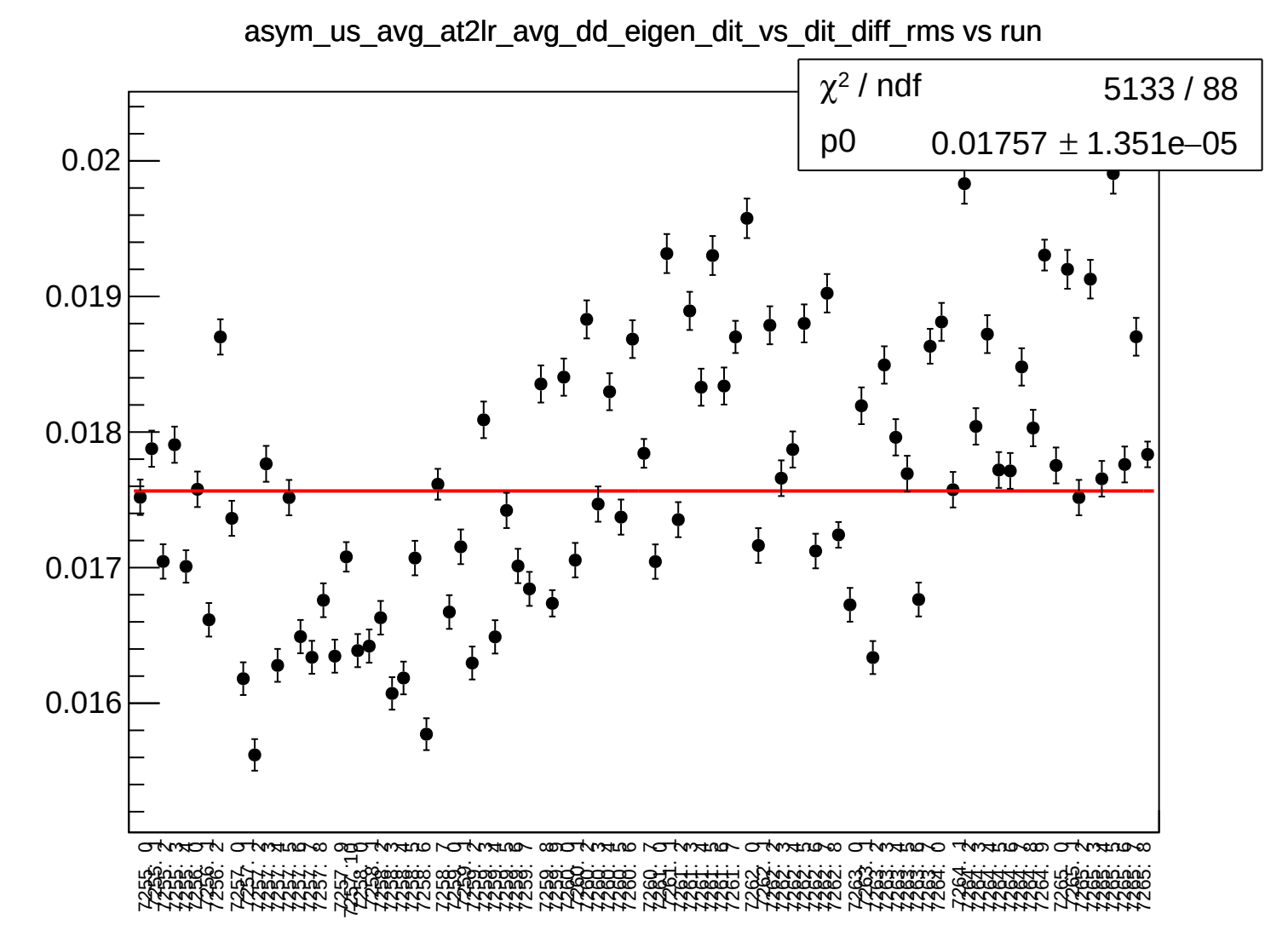

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.52 / 88
p0 0.6627 ± 0.5151
pull
Entries 89
Mean 123.7
Std Dev 0
pull1D
Entries 89
Mean −0.01154
Std Dev 1.036

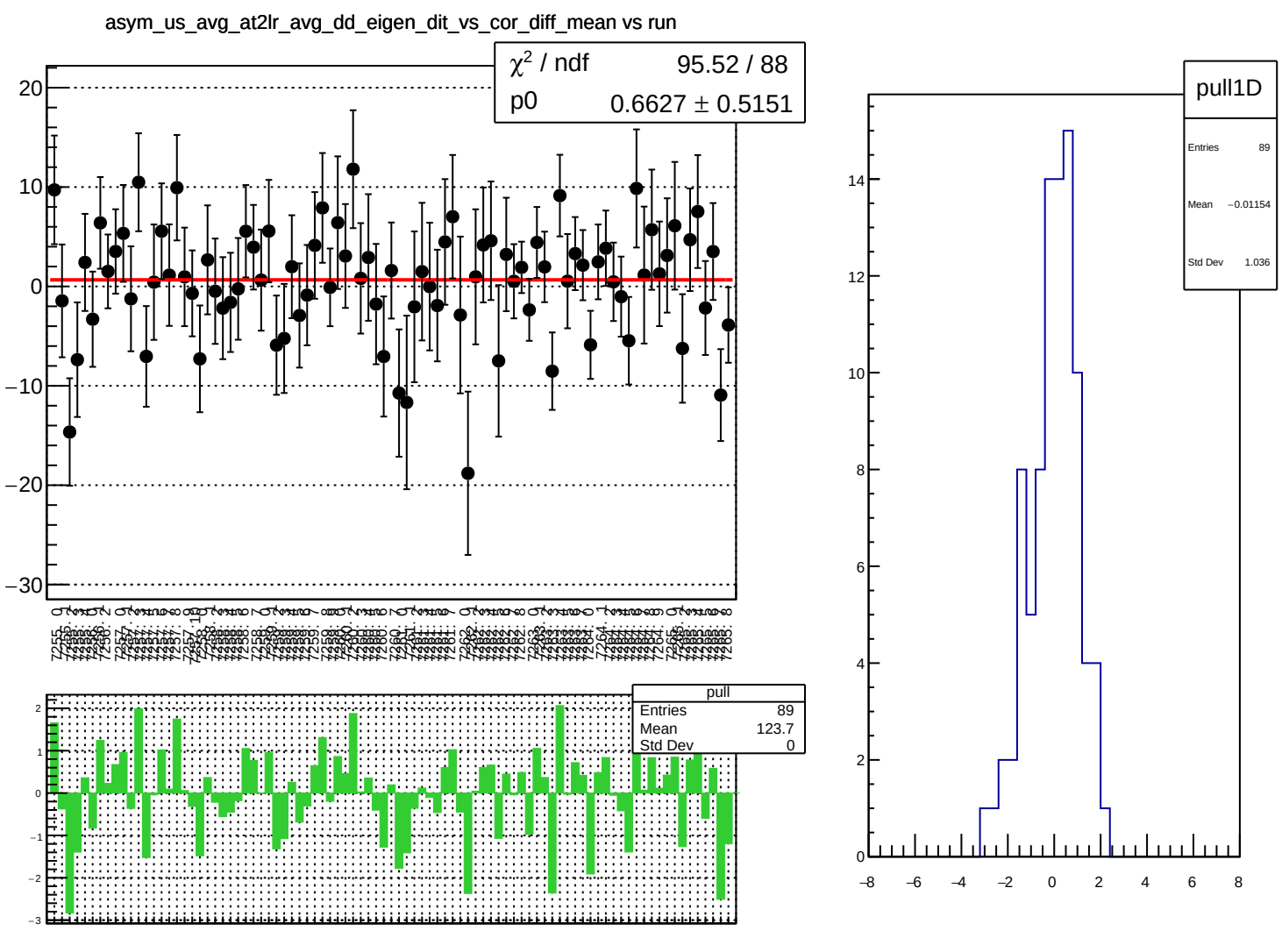

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.316e+04 / 88
p0 463.9 ± 0.3642
800
700
600
500
400
300

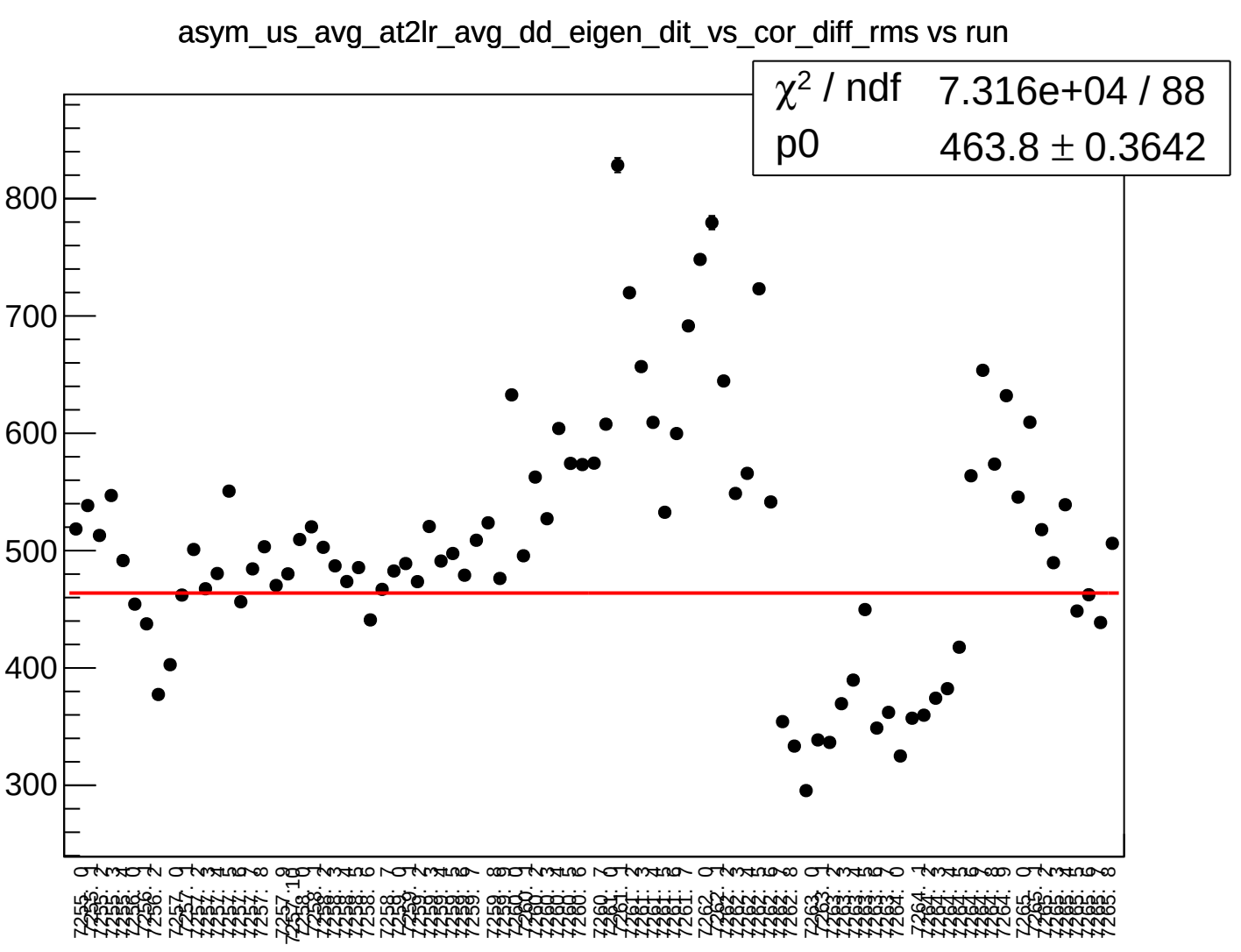

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.52 / 88
p0 0.6627 ± 0.5151
pull
Entries 89
Mean 123.7
Std Dev 0
pull1D
Entries 89
Mean −0.01154
Std Dev 1.036

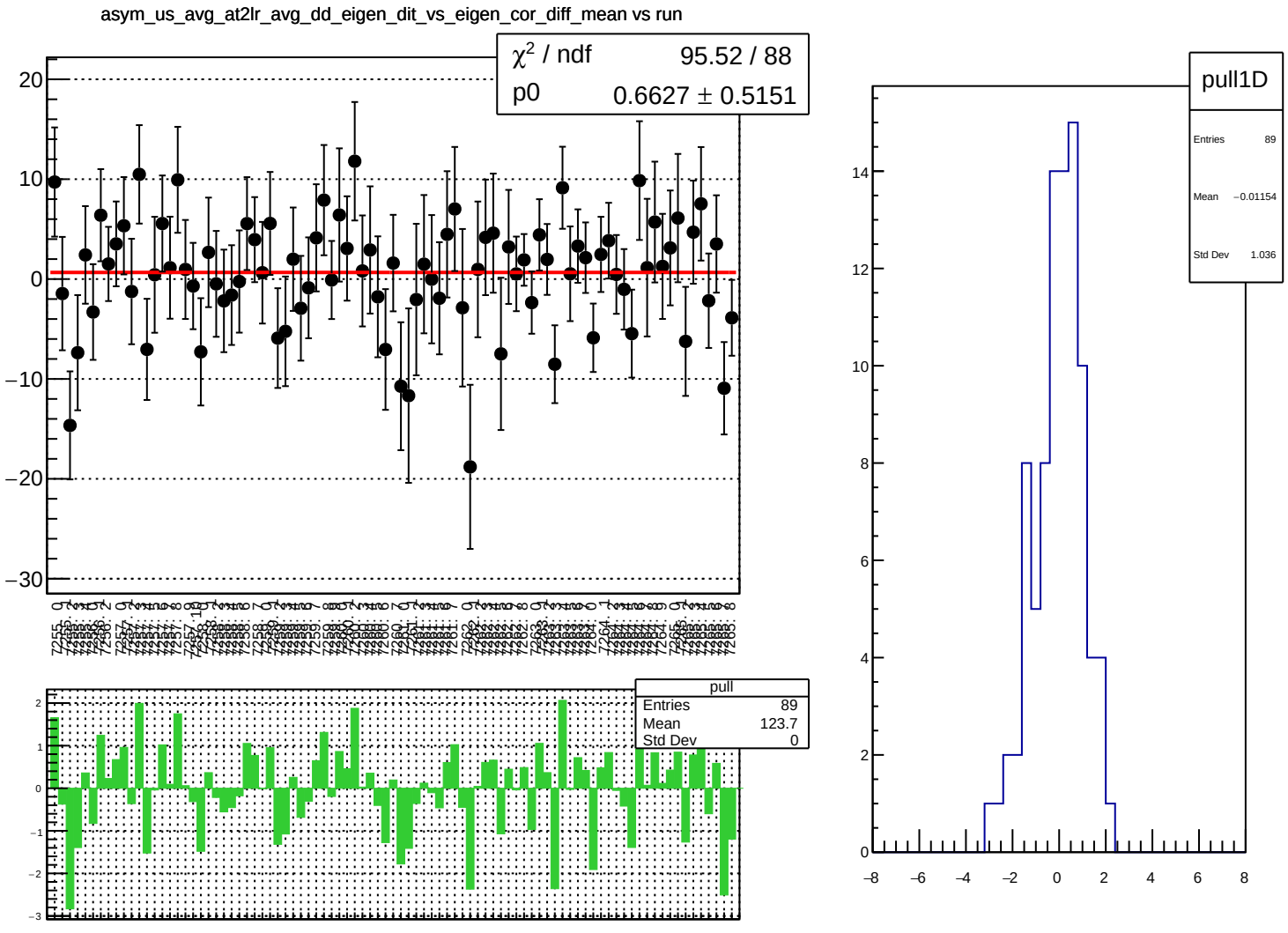

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.316e+04 / 88
p0 463.9 ± 0.3642
800
700
600
500
400
300

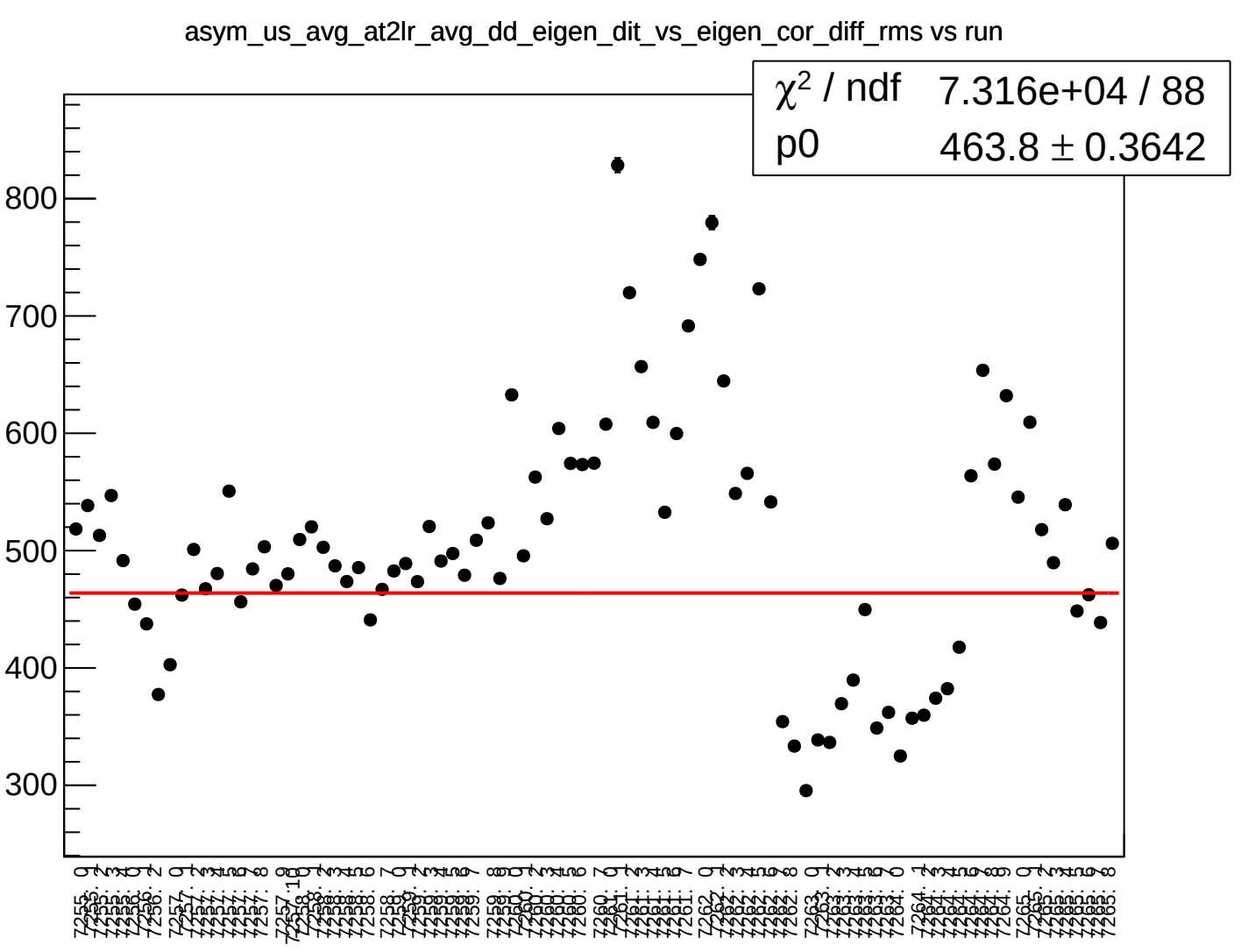

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.66 / 88
p0 −1.455e−05 ± 1.911e−05
pull
Entries 89
Mean −610.3
Std Dev 0
pull1D
Entries 89
Mean −0.00606
Std Dev 1.009

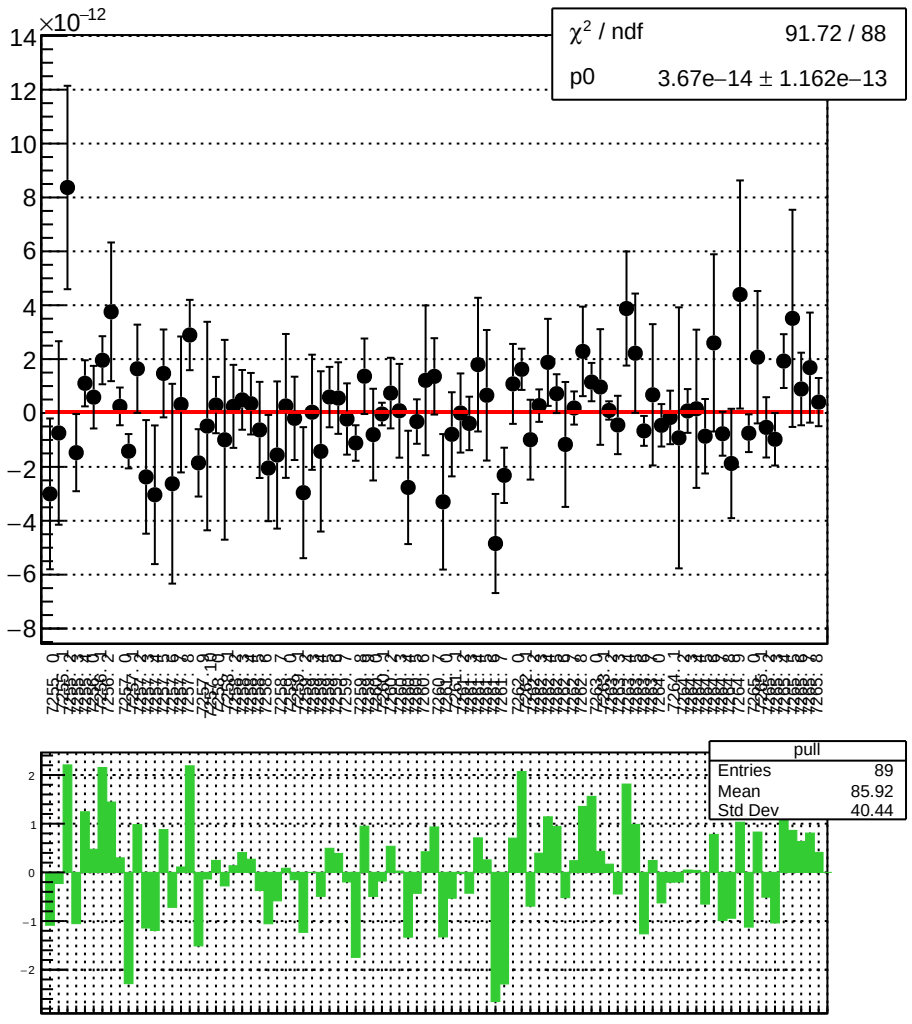

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5133 / 88
p0 0.01757 ± 1.351e−05
0.02
0.019
0.018
0.017
0.016

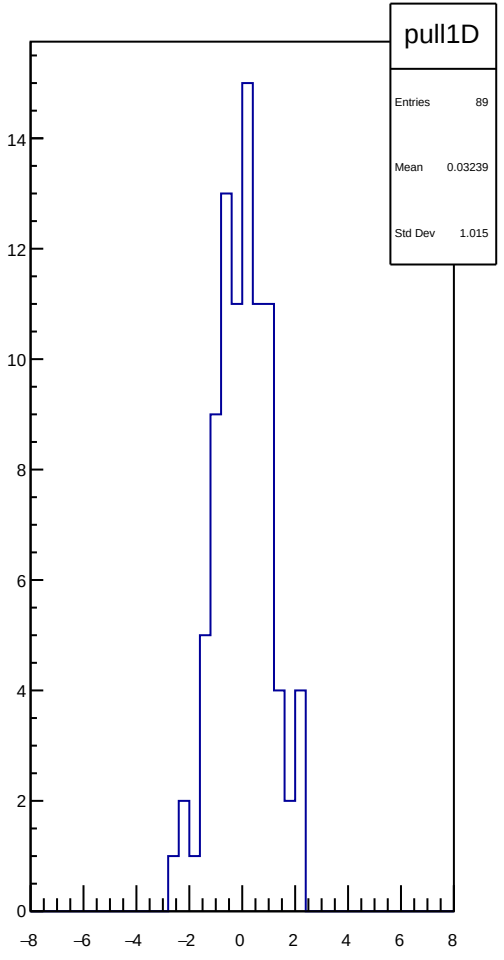

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.52 / 88
p0 0.6627 ± 0.5151
pull
Entries 89
Mean 123.7
Std Dev 0
pull1D
Entries 89
Mean −0.01154
Std Dev 1.036

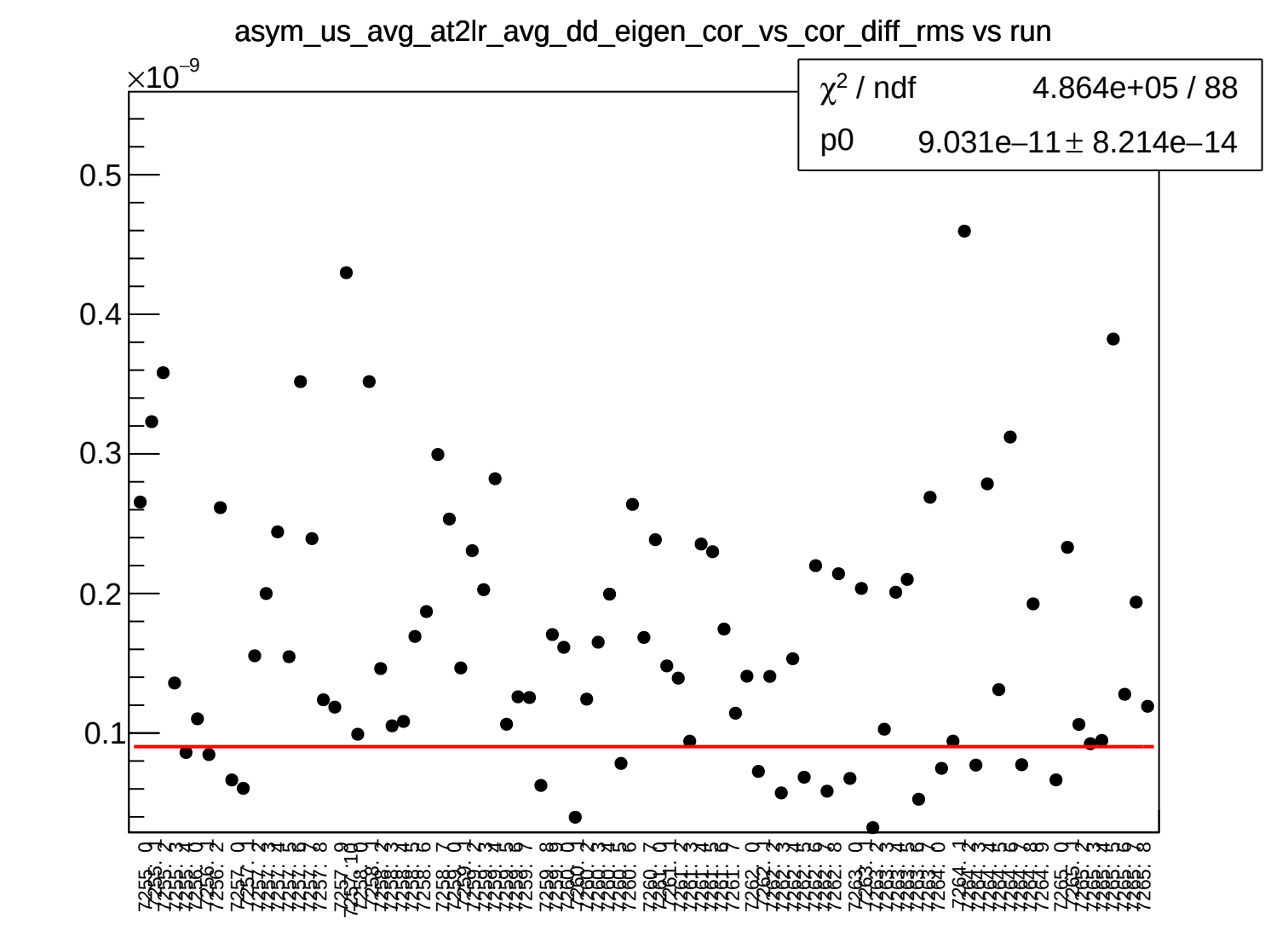

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.316e+04 / 88
p0 463.8 ± 0.3642
800
700
600
500
400
300

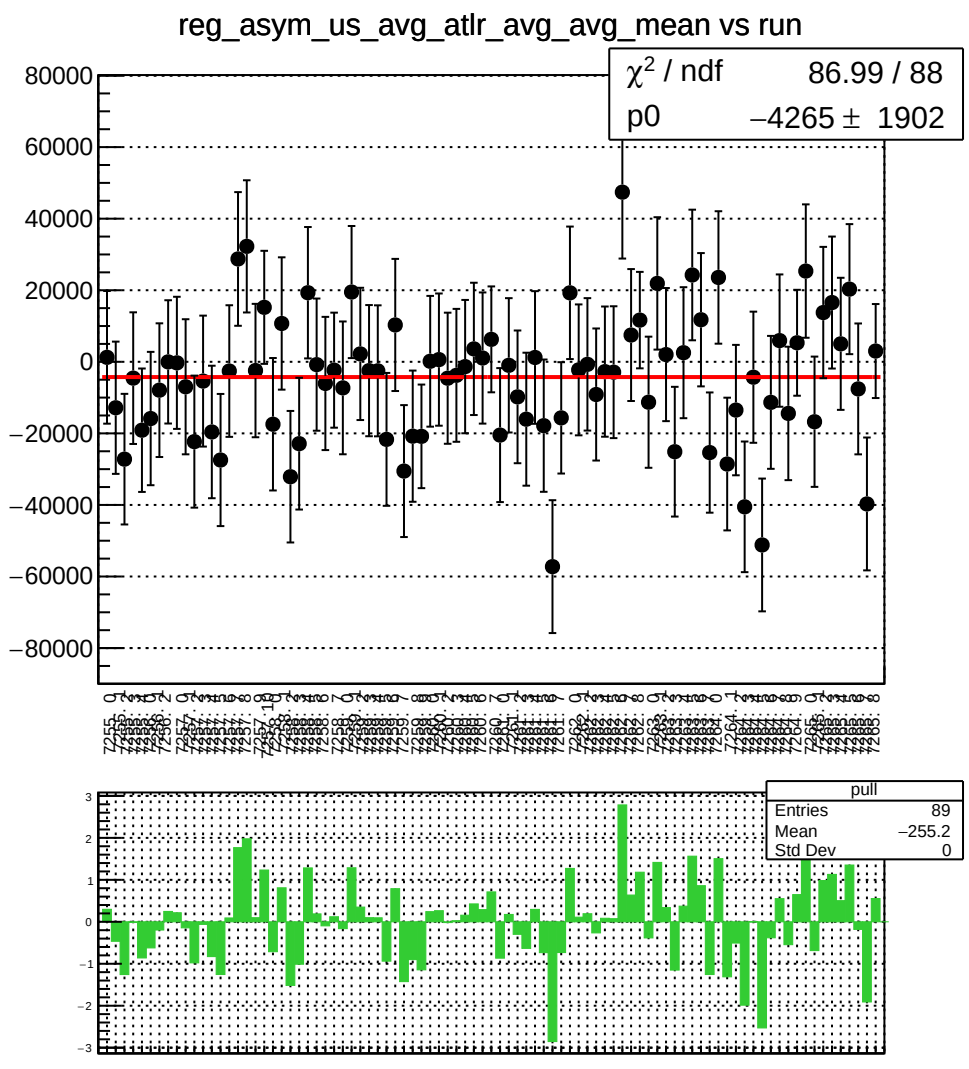

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.52 / 88
p0 0.6627 ± 0.5151
pull
Entries 89
Mean 123.7
Std Dev 0
pull1D
Entries 89
Mean −0.01154
Std Dev 1.036

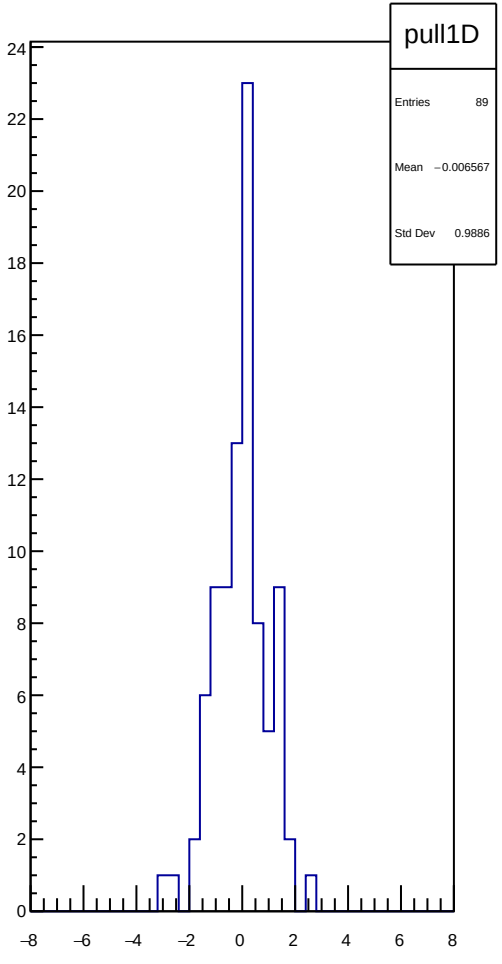

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.316e+04 / 88
p0 463.8 ± 0.3642
800
700
600
500
400
300

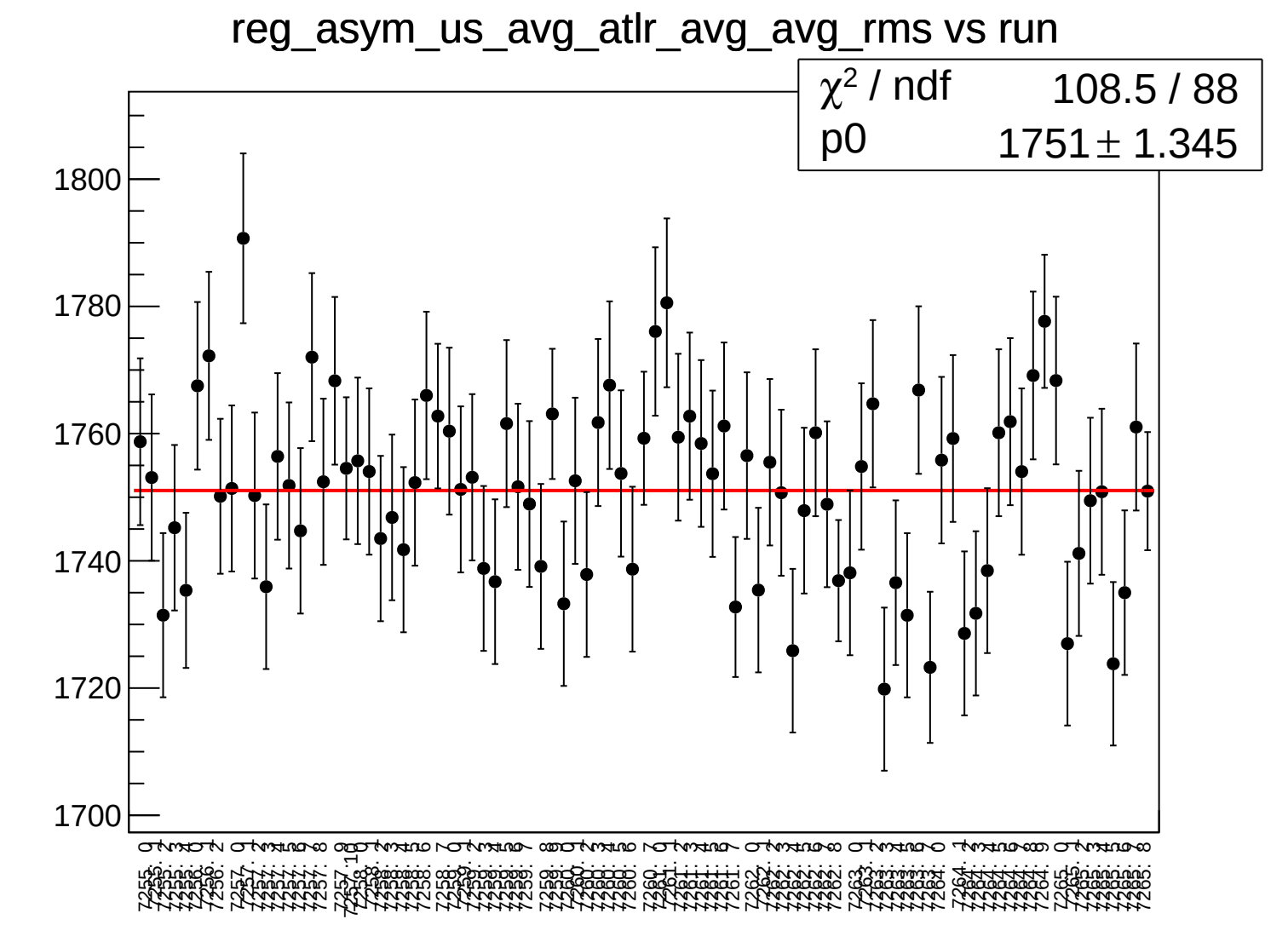

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.72 / 88
p0 3.67e−14 ± 1.162e−13
pull
Entries 89
Mean 85.92
Std Dev 40.44

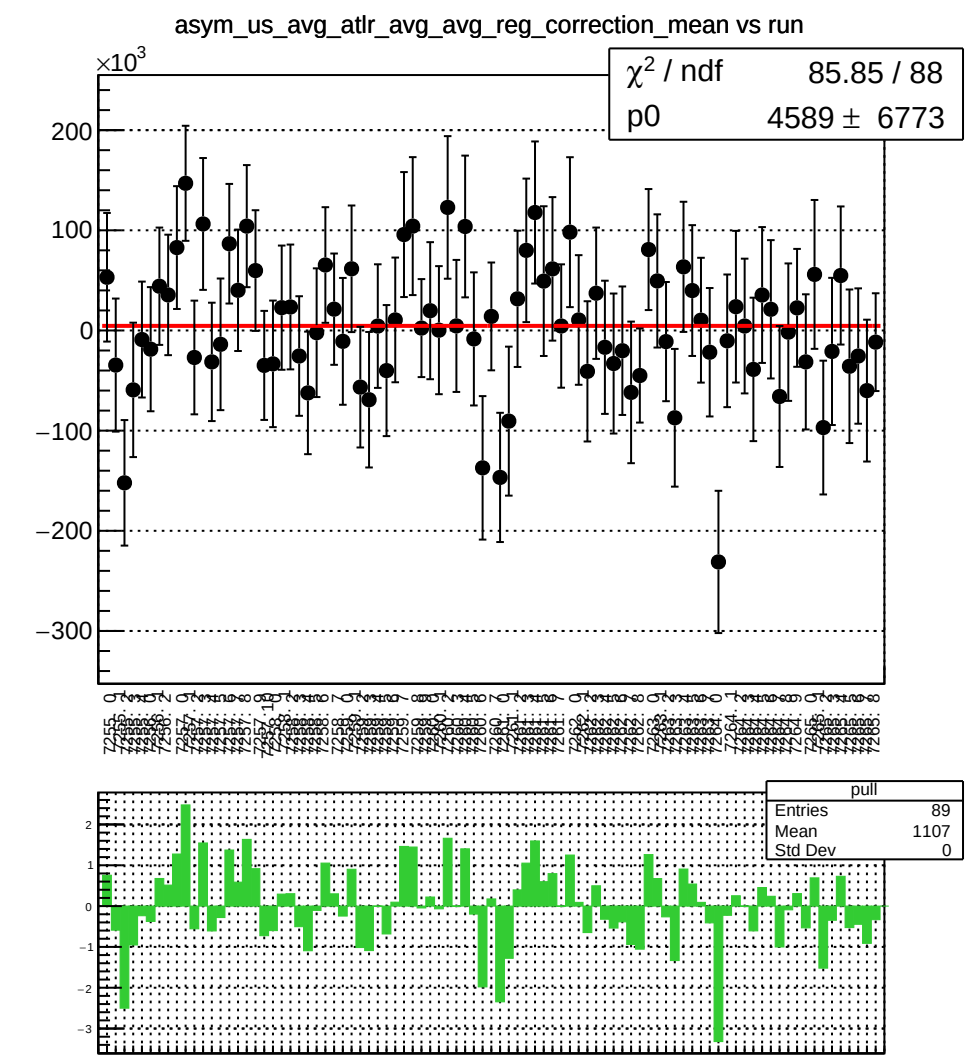

pull1D
Entries 89
Mean 0.03239
Std Dev 1.015

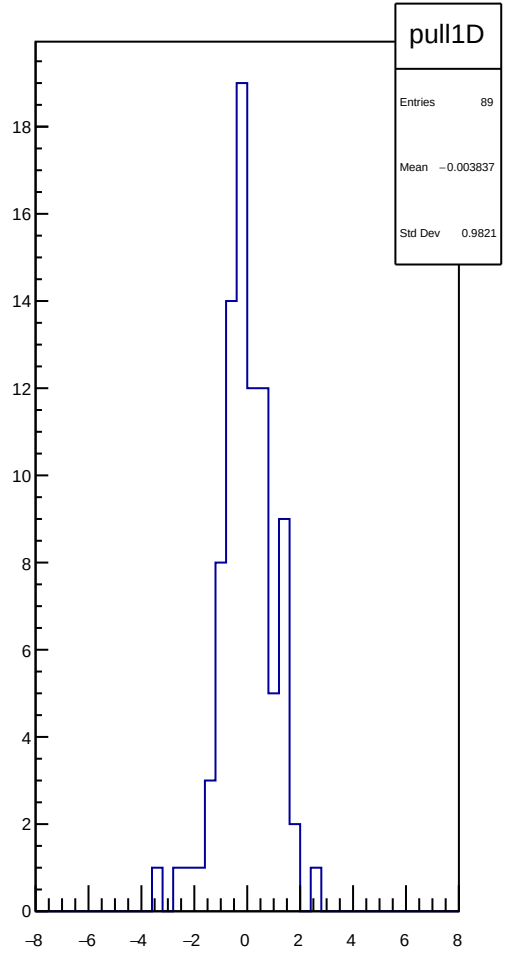

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.864e+05 / 88
p0 9.031e−11 ± 8.214e−14
0.5
0.4
0.3
0.2
0.1

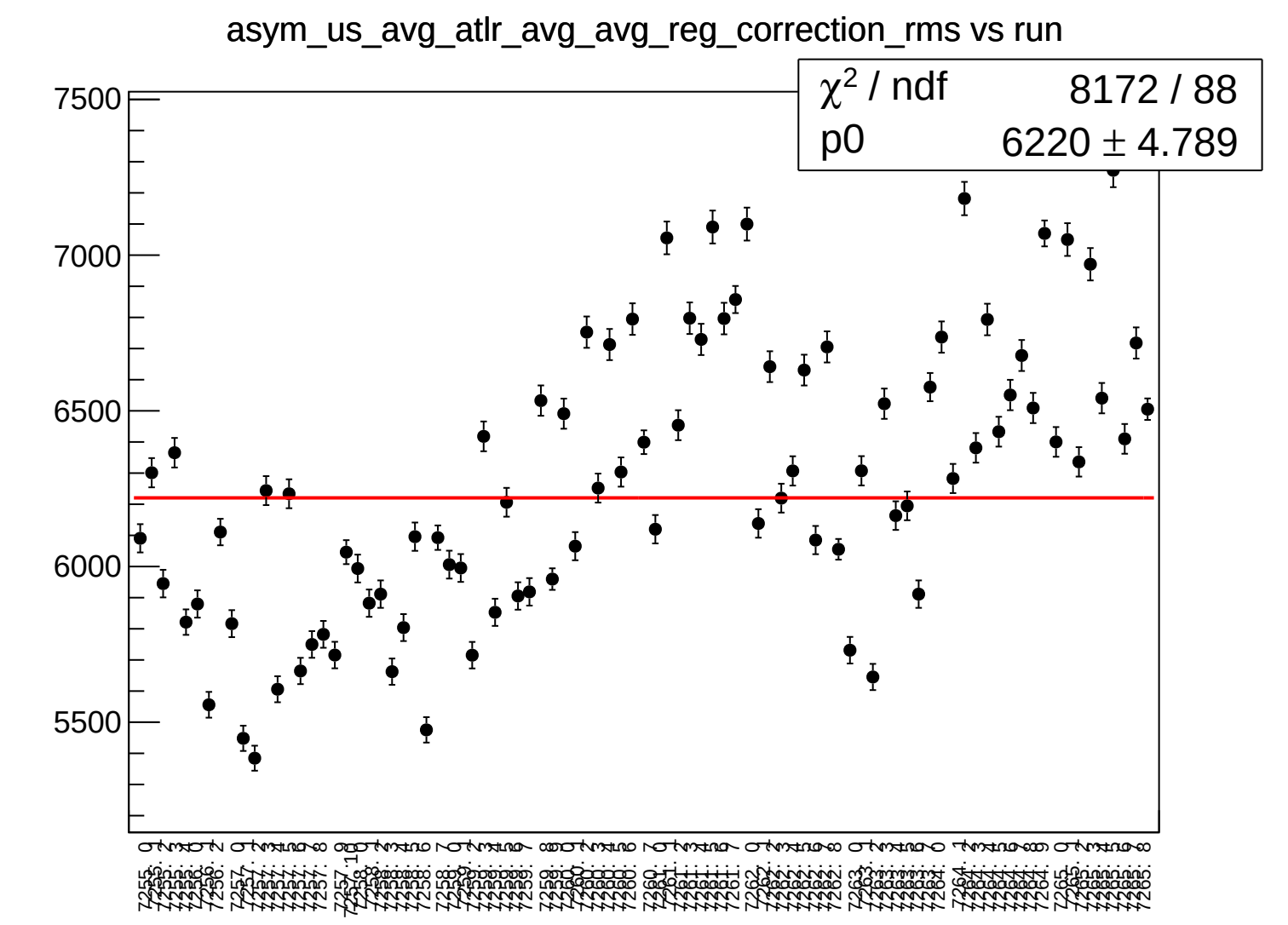

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 86.99 / 88
p0 −4265 ± 1902
pull
Entries 89
Mean −255.2
Std Dev 0

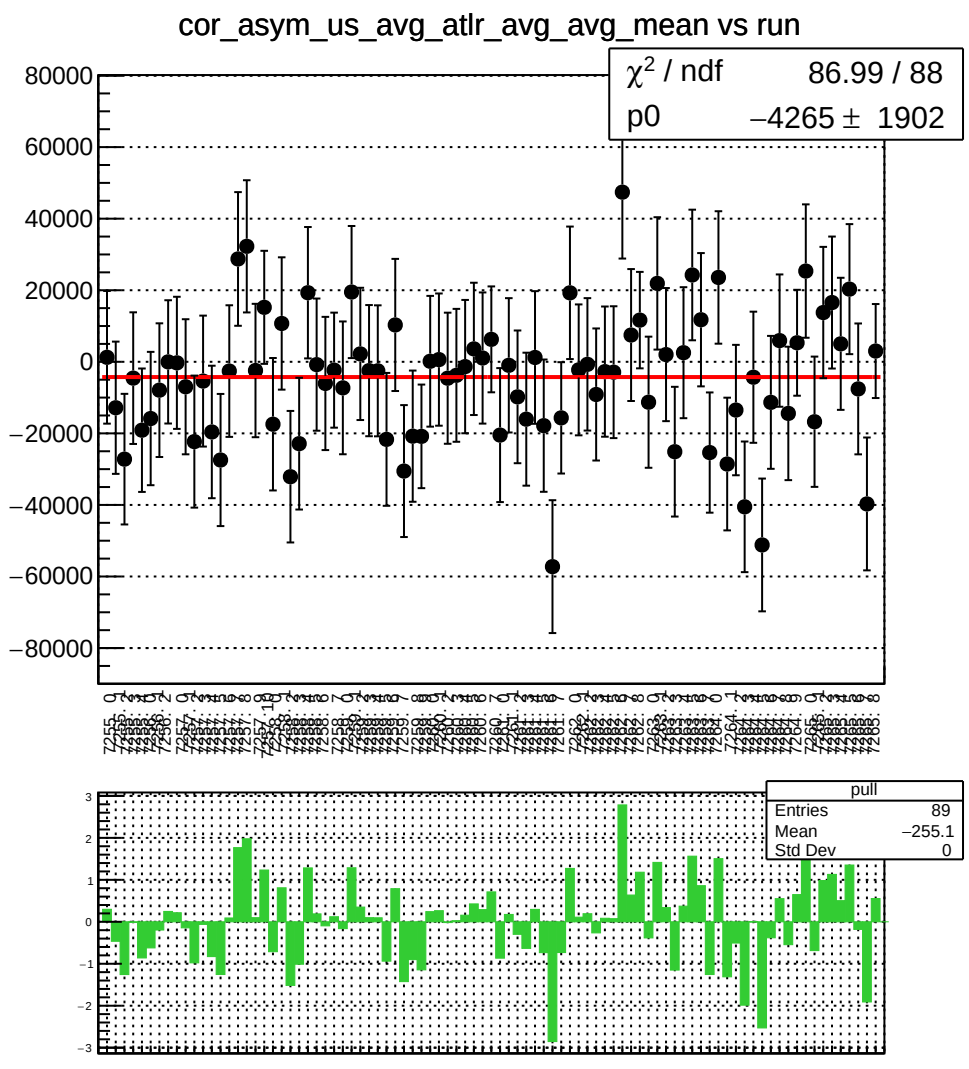

pull1D
Entries 89
Mean −0.006567
Std Dev 0.9886

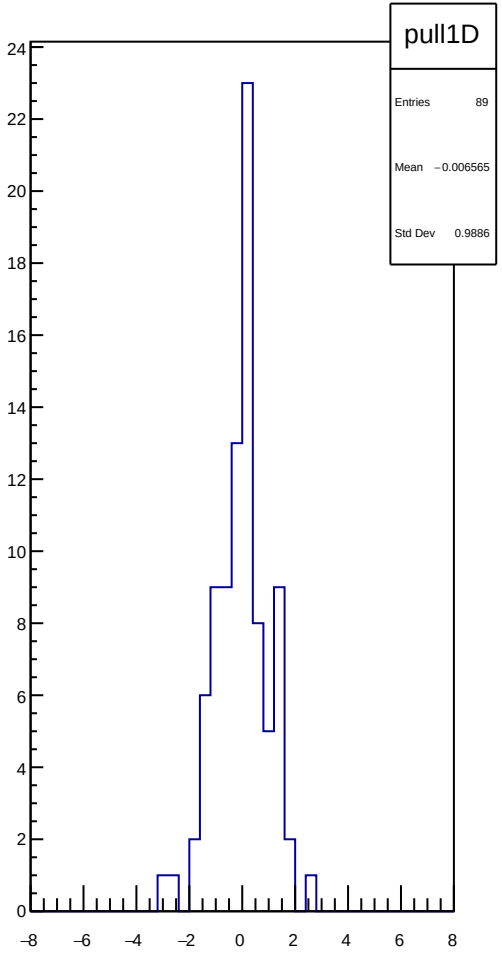

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 108.5 / 88
p0 1751 ± 1.345
1800
1780
1760
1740
1720
1700

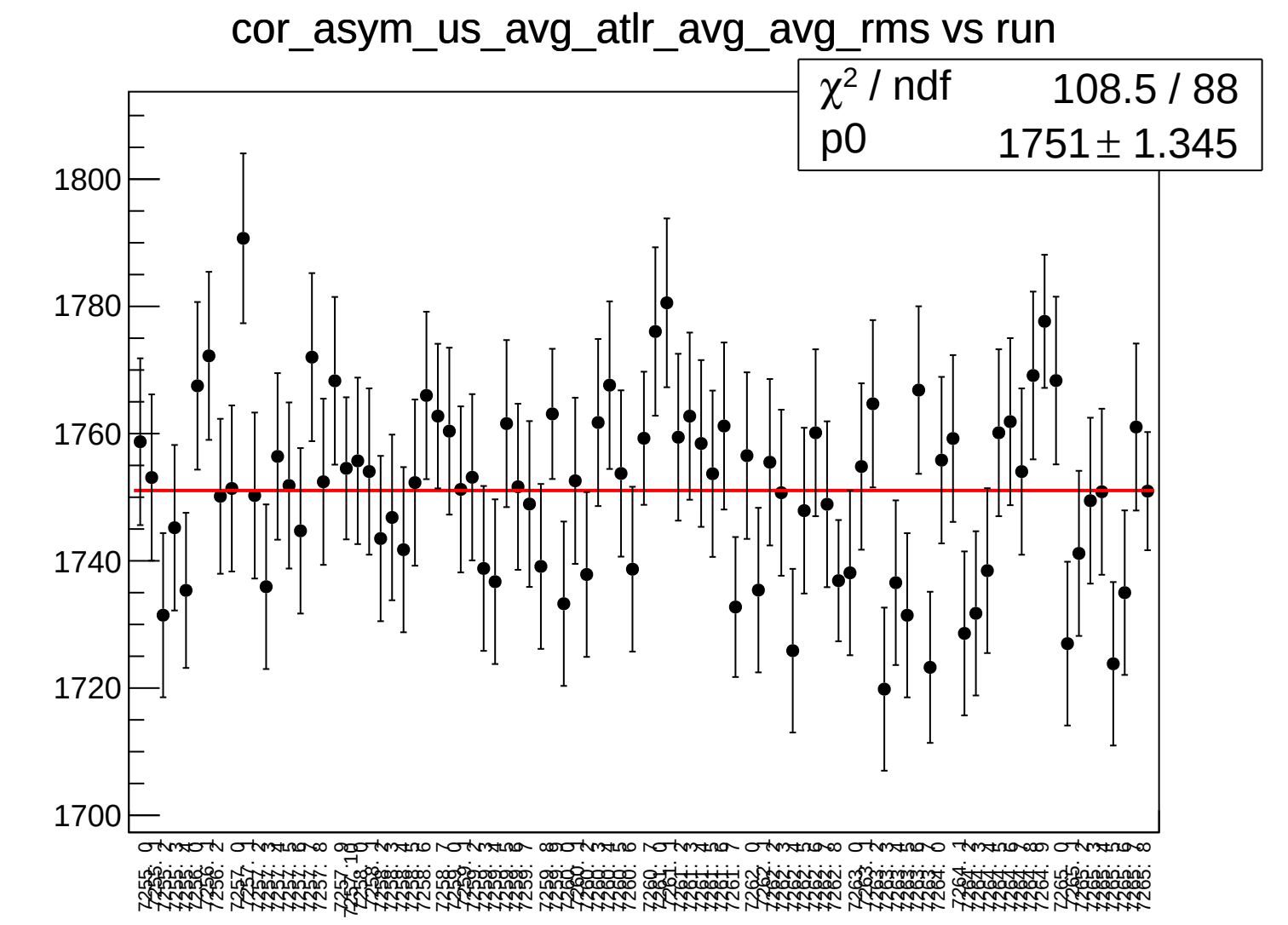

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 85.85 / 88
p0 4589 ± 6773
200
100
0
−100
−200
−300
pull
Entries 89
Mean 1107
Std Dev 0
2
1
0
−1
−2
−3

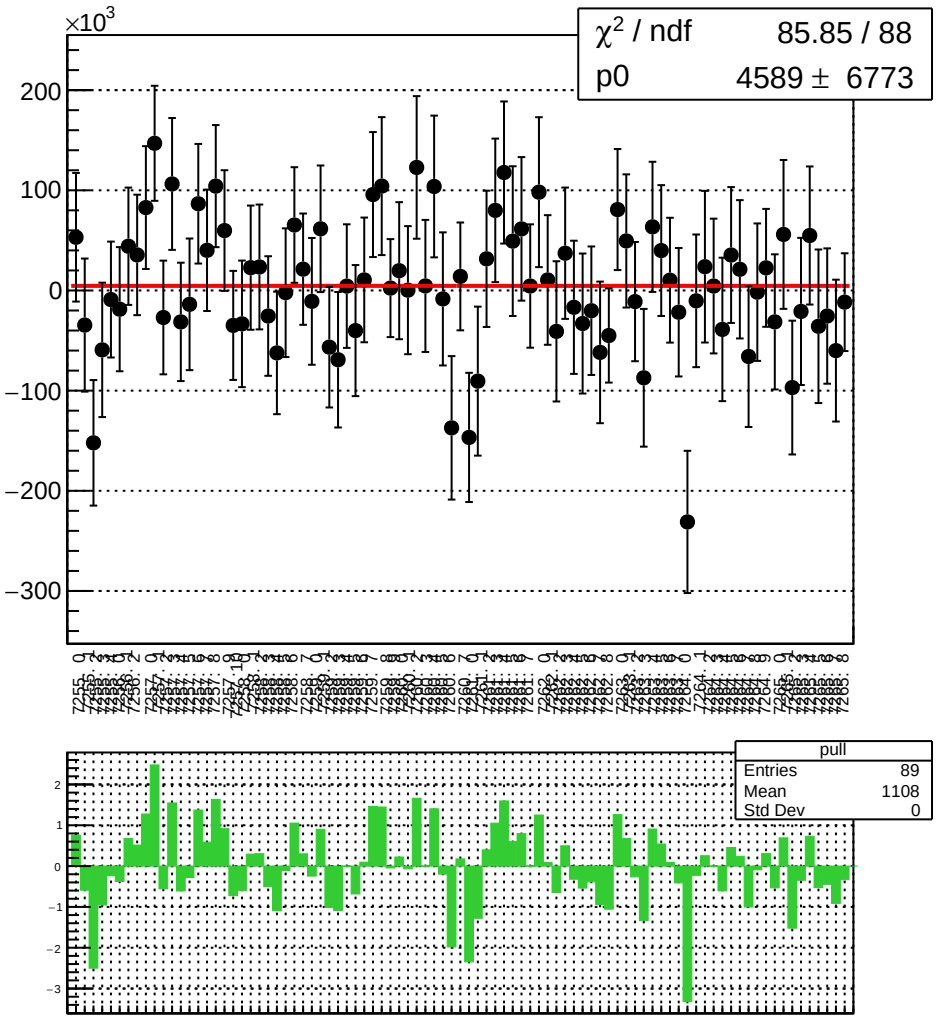

pull1D
Entries 89
Mean −0.003837
Std Dev 0.9821
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

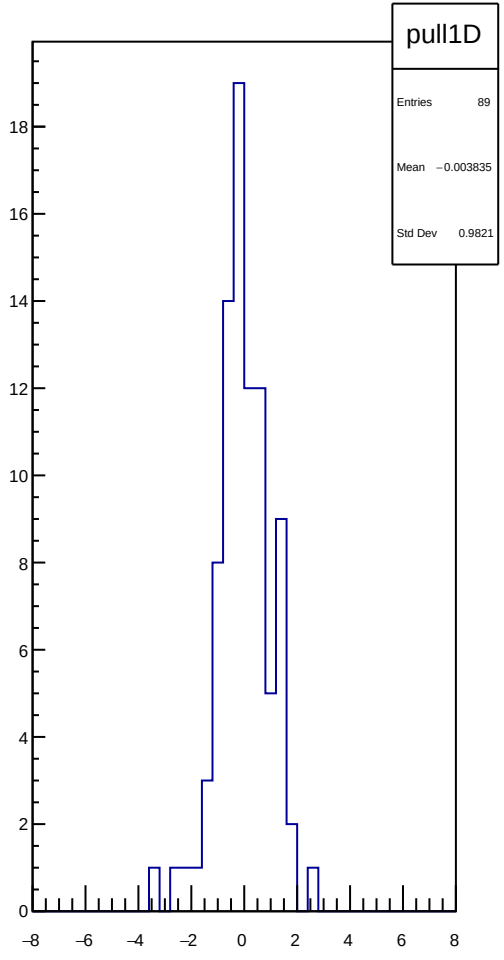

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 8172 / 88
p0 6220 ± 4.789
7500
7000
6500
6000
5500

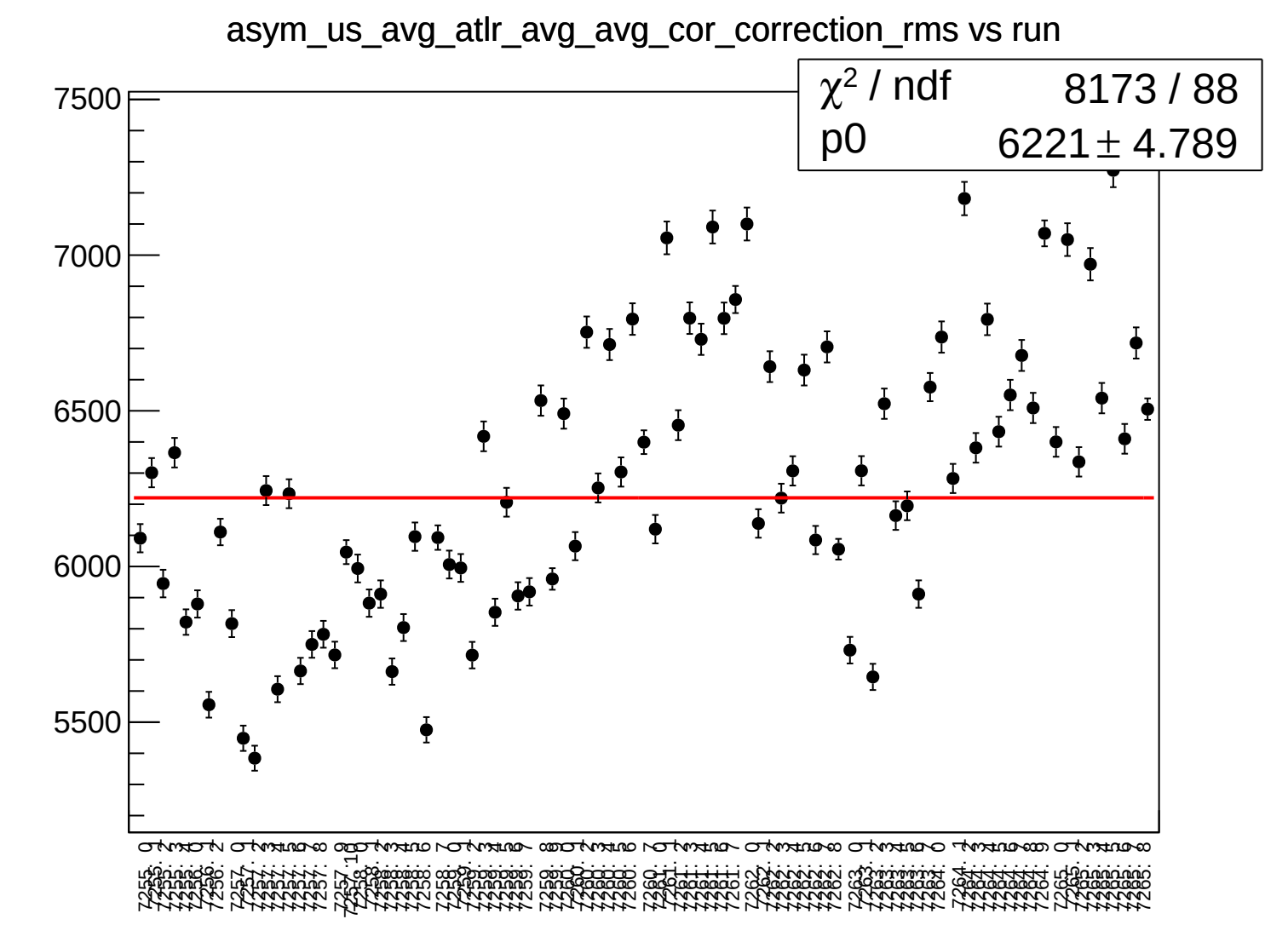

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 86.99 / 88
p0 −4265 ± 1902
pull
Entries 89
Mean −255.1
Std Dev 0

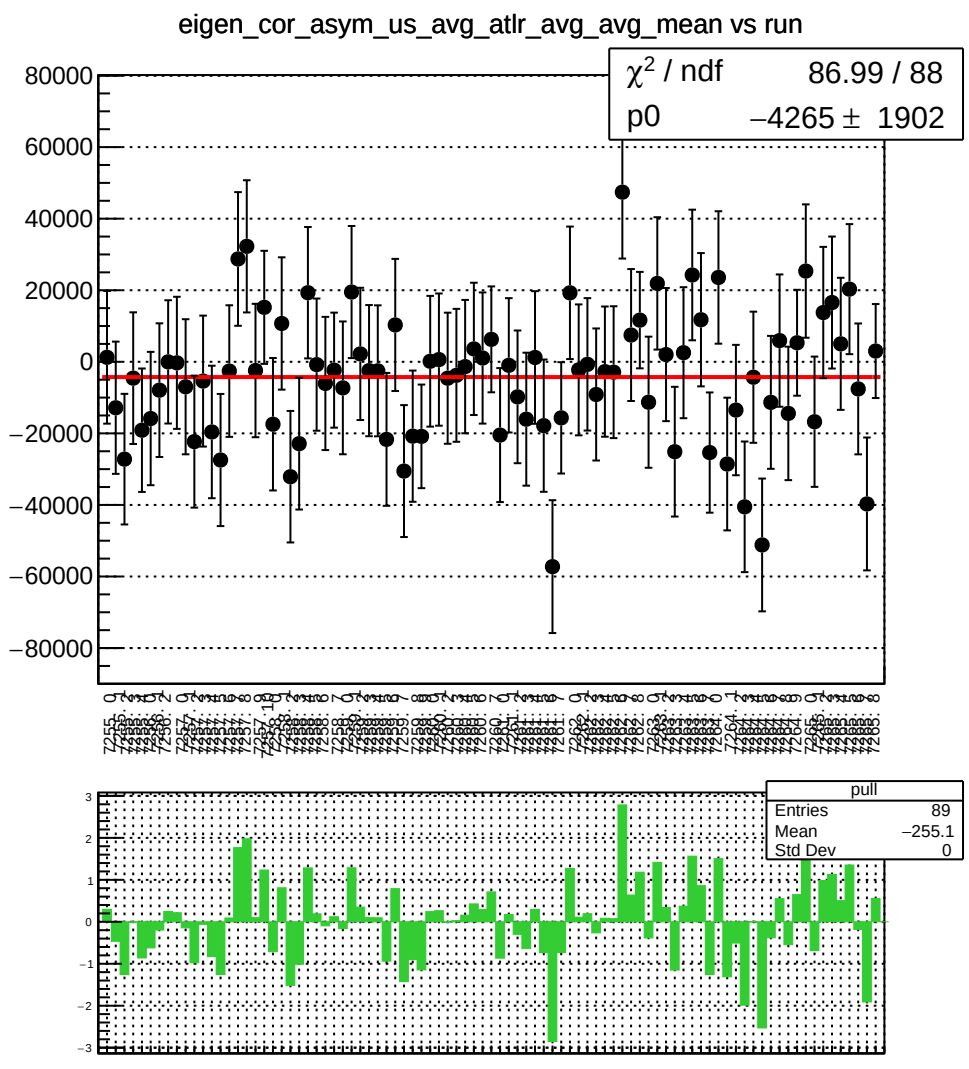

pull1D
Entries 89
Mean −0.006565
Std Dev 0.9886

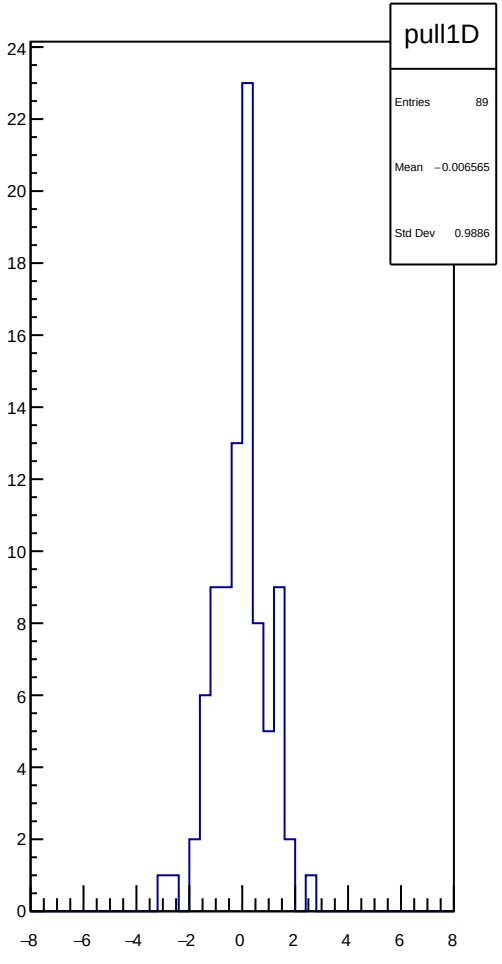

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 108.5 / 88
p0 1751 ± 1.345
1800
1780
1760
1740
1720
1700

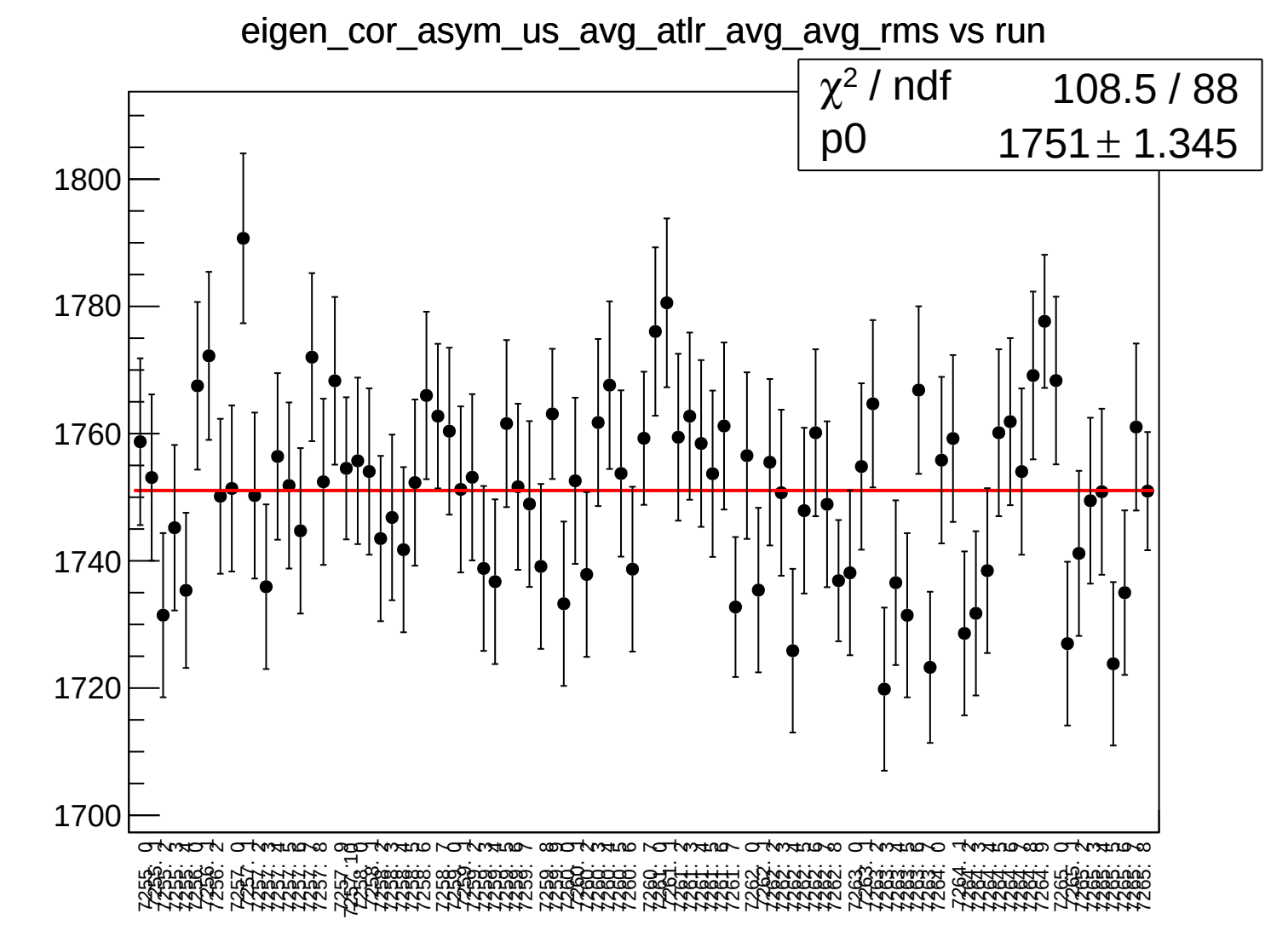

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 85.85 / 88
p0 4589 ± 6773
200
100
0
−100
−200
−300
pull
Entries 89
Mean 1108
Std Dev 0
2
1
0
−1
−2
−3

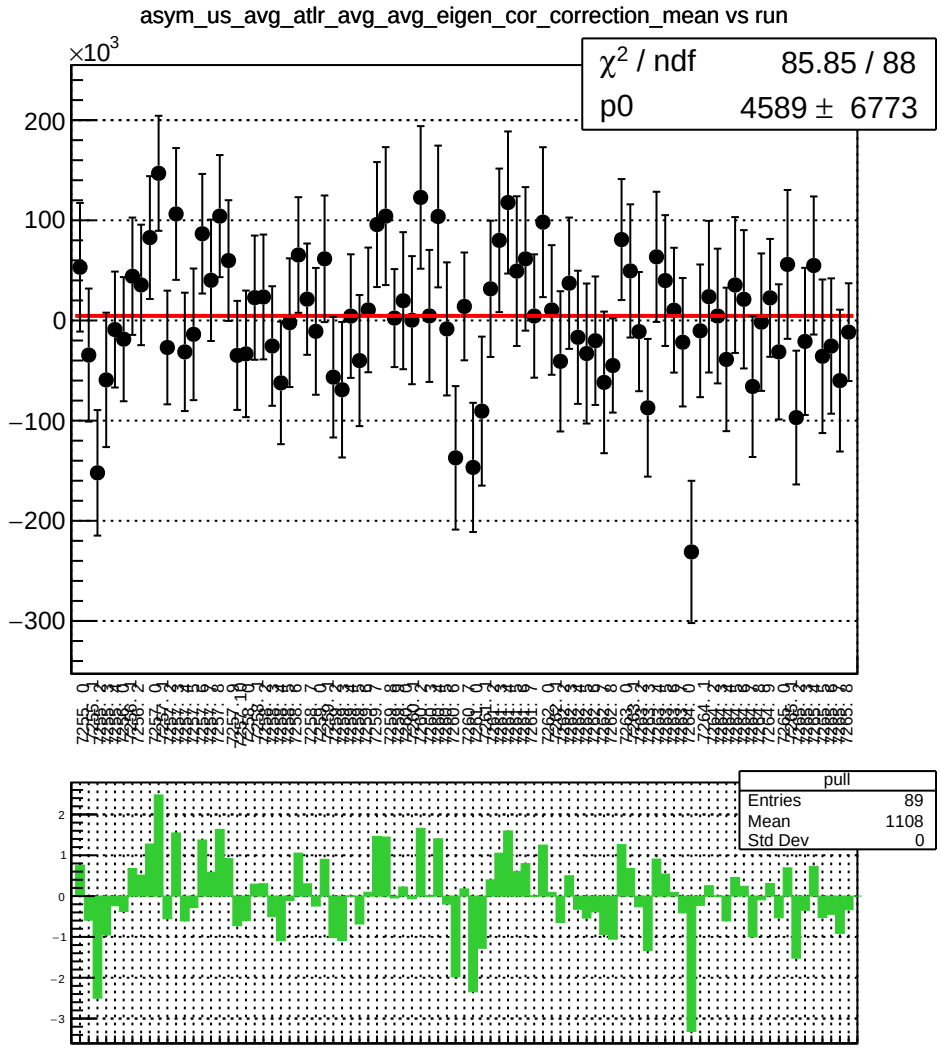

pull1D
Entries 89
Mean −0.003835
Std Dev 0.9821
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

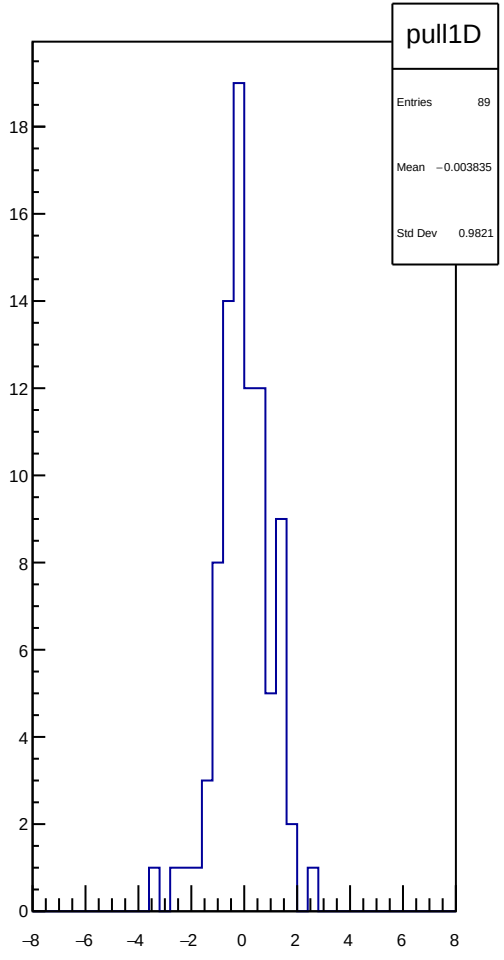

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ^2 / ndf 8173 / 88
p0 6221 ± 4.789
7500
7000
6500
6000
5500

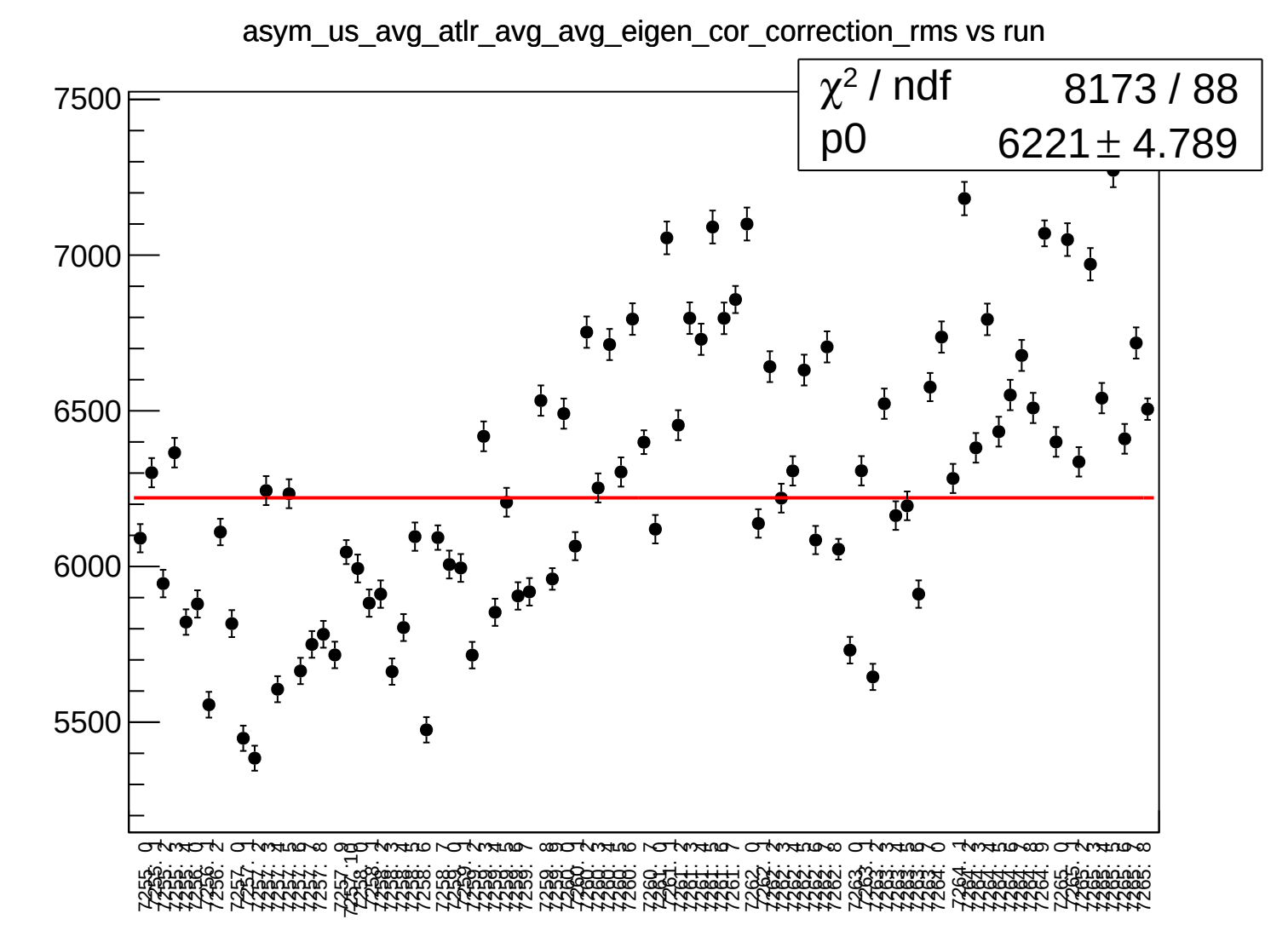

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 86.99 / 88
p0 −4265 ± 1902
pull
Entries 89
Mean −255.1
Std Dev 0

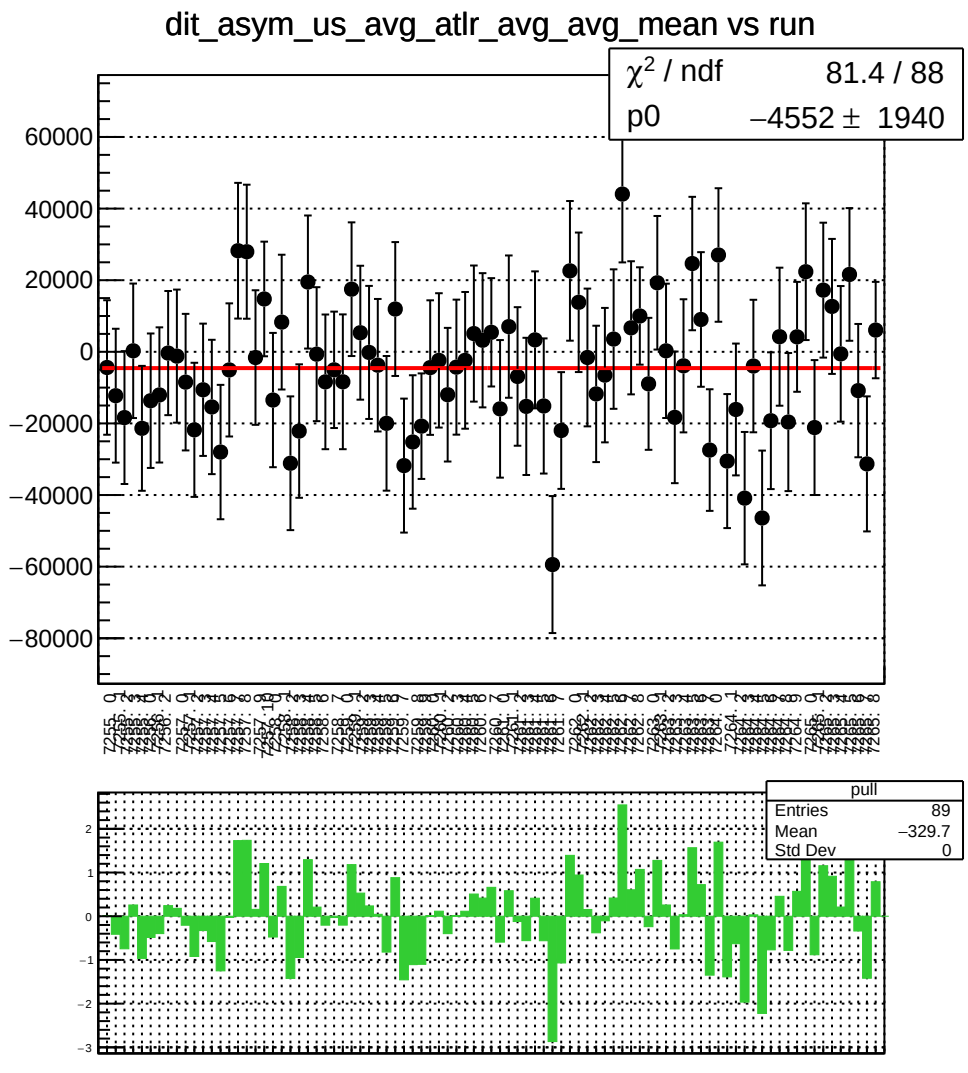

pull1D
Entries 89
Mean −0.006565
Std Dev 0.9886

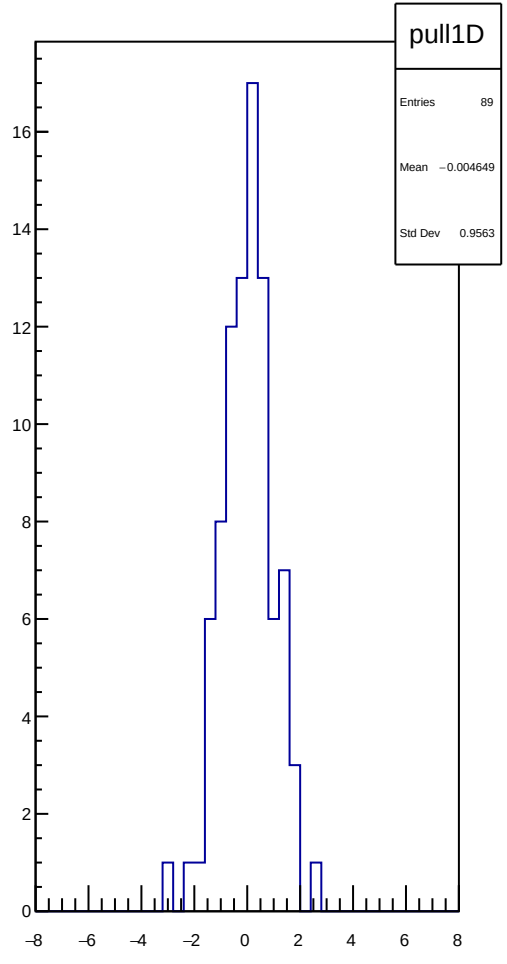

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 108.5 / 88
p0 1751 ± 1.345
1800
1780
1760
1740
1720
1700

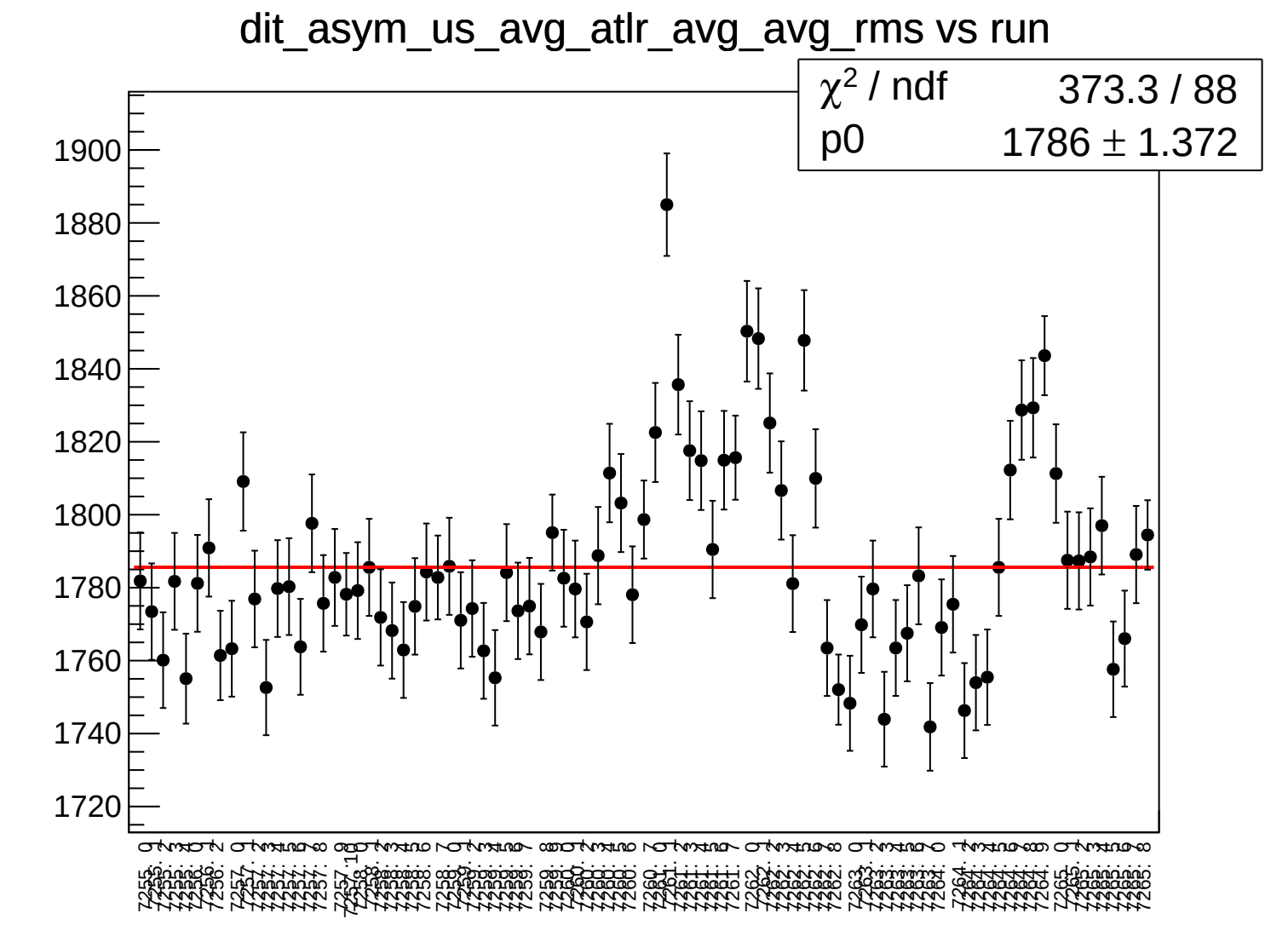

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.85 / 88
p0 4589 ± 6773
200
100
0
−100
−200
−300
pull
Entries 89
Mean 1108
Std Dev 0
2
1
0
−1
−2
−3

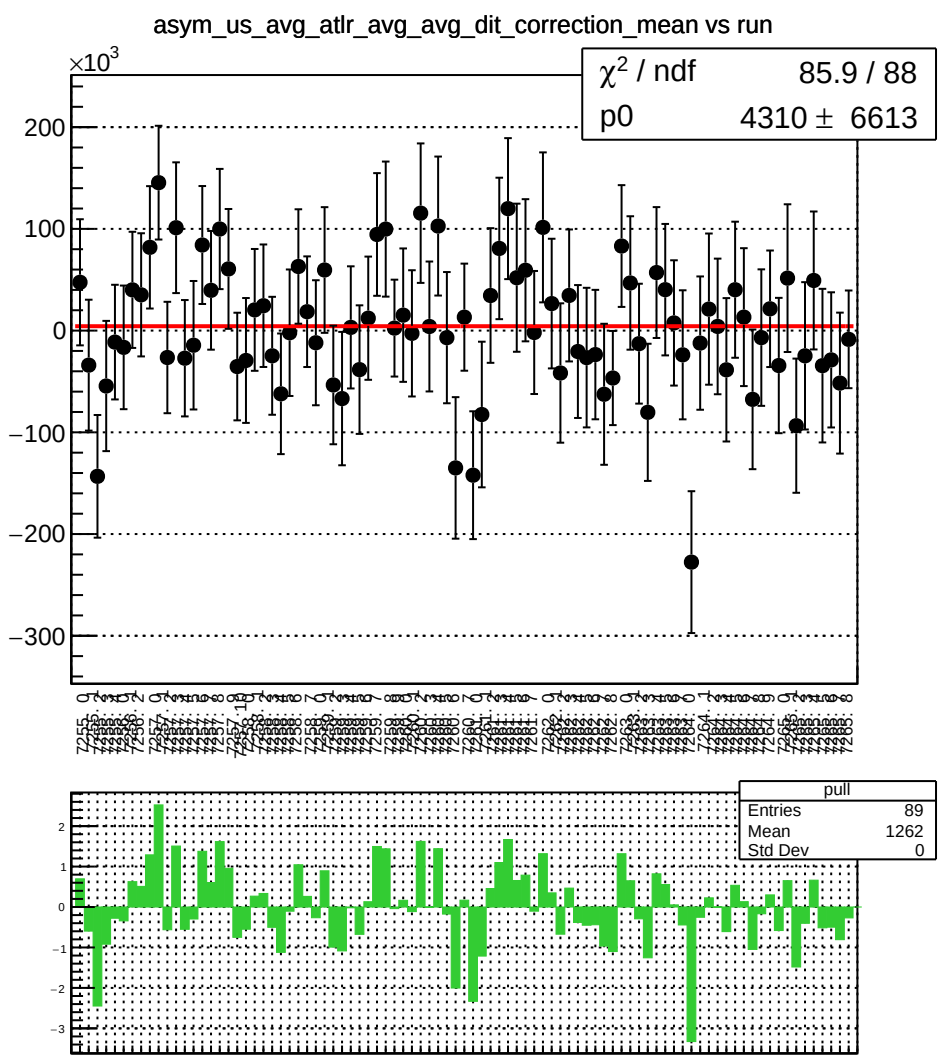

pull1D
Entries 89
Mean −0.003835
Std Dev 0.9821
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

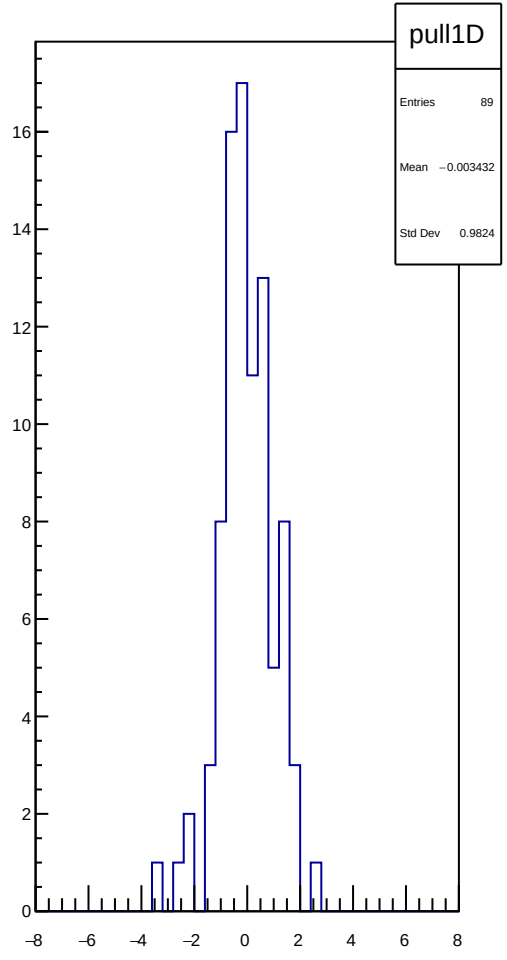

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 8173 / 88
p0 6221 ± 4.789
7500
7000
6500
6000
5500

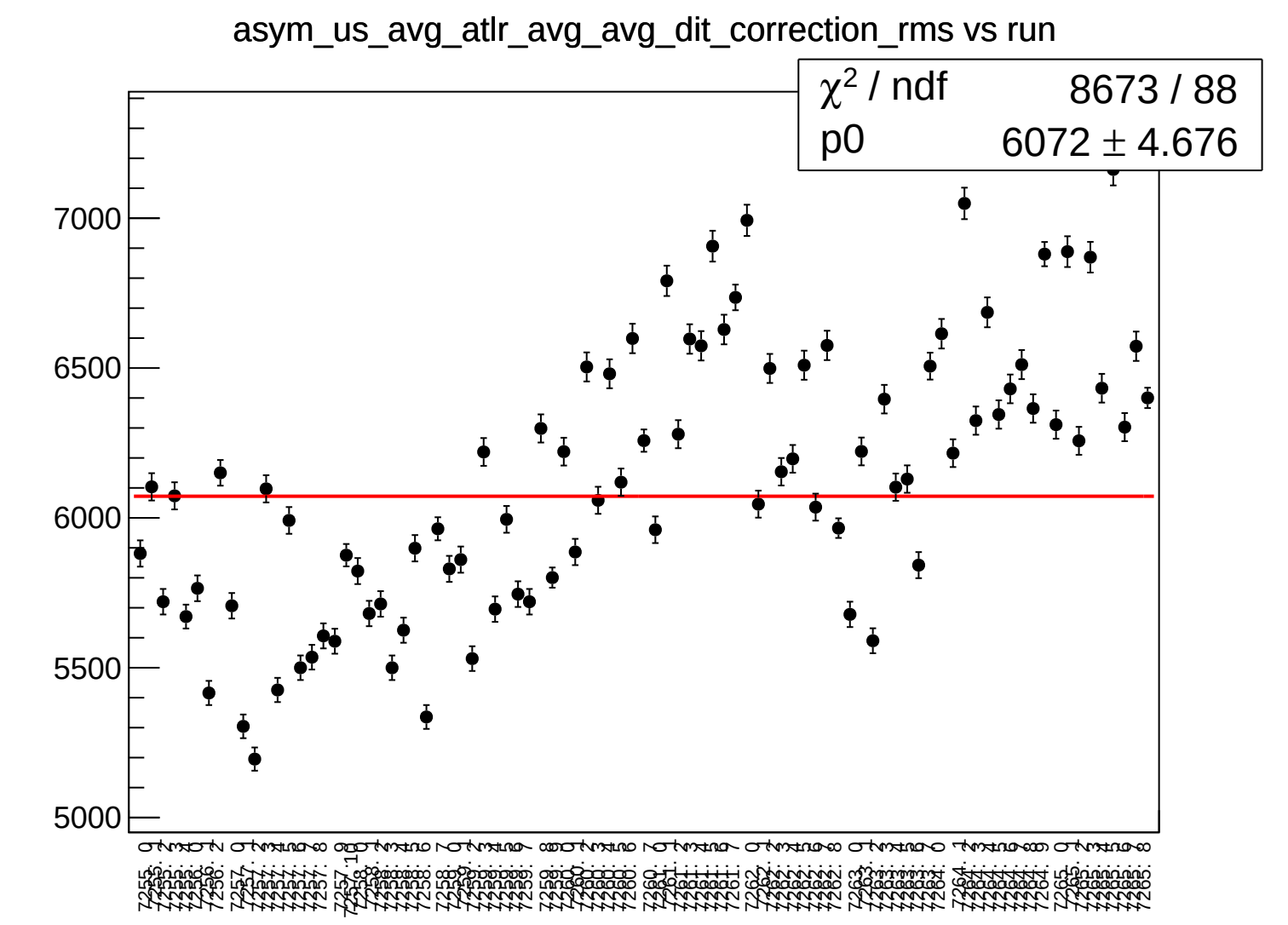

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 81.4 / 88
p0 −4552 ± 1940
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −329.7
Std Dev 0
2
1
0
−1
−2
−3

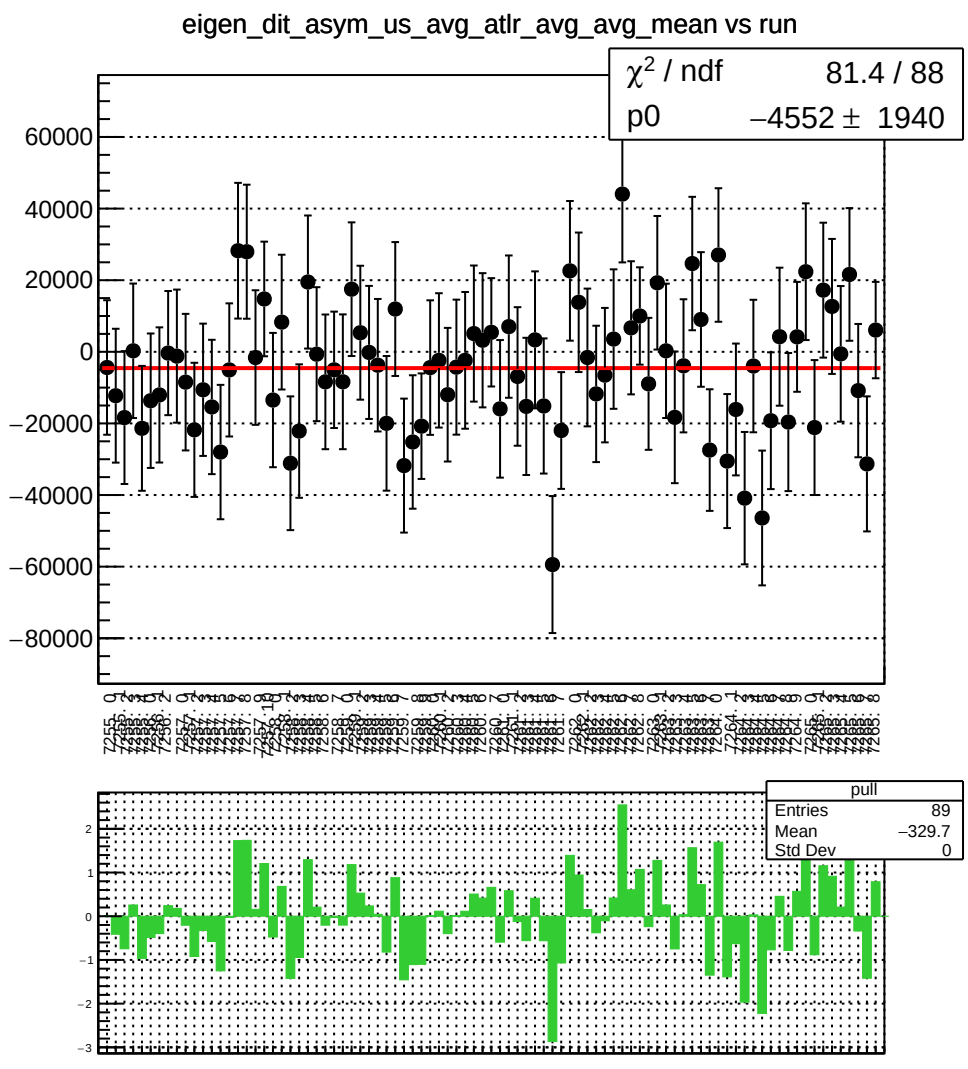

pull1D
Entries 89
Mean −0.004649
Std Dev 0.9563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

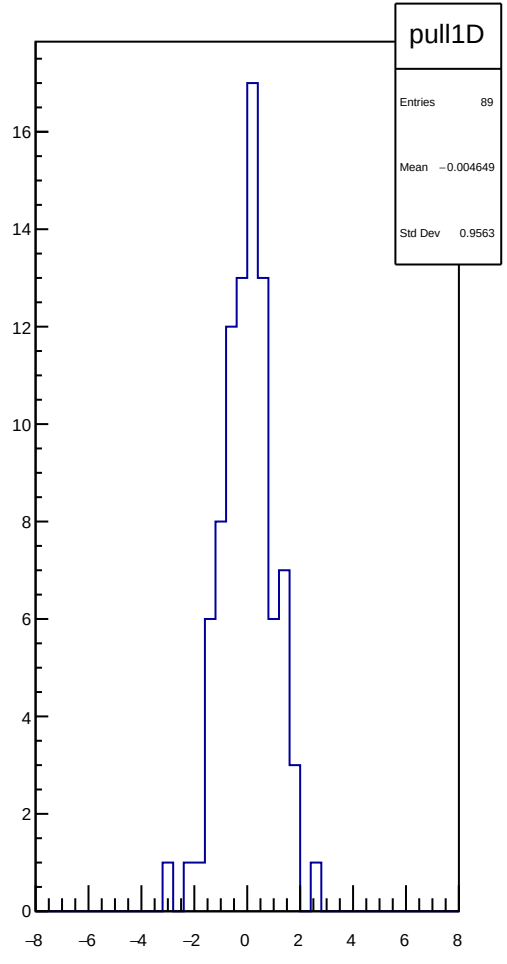

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 373.3 / 88
p0 1786 ± 1.372
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

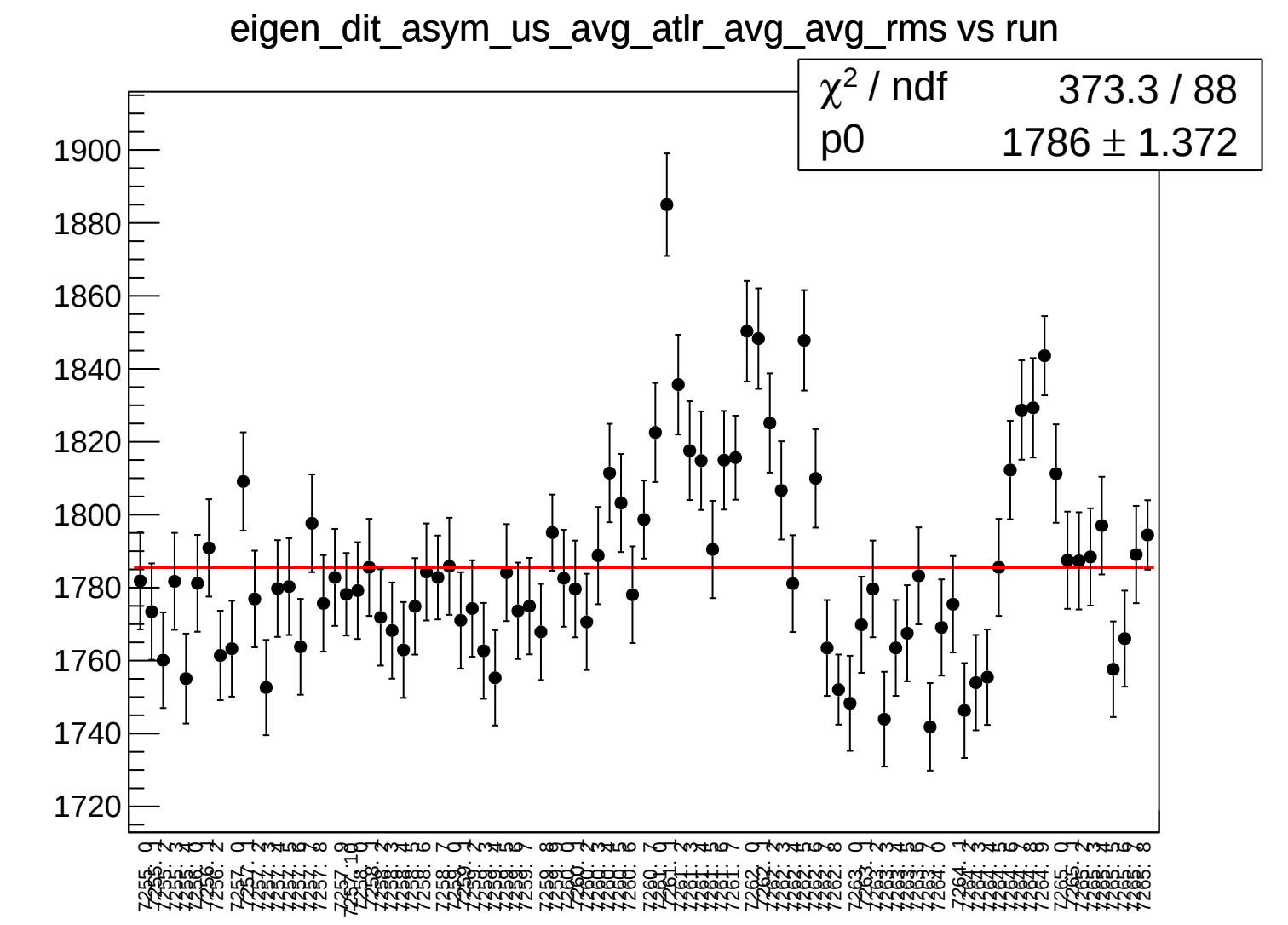

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 85.9 / 88
p0 4310 ± 6613
pull
Entries 89
Mean 1262
Std Dev 0

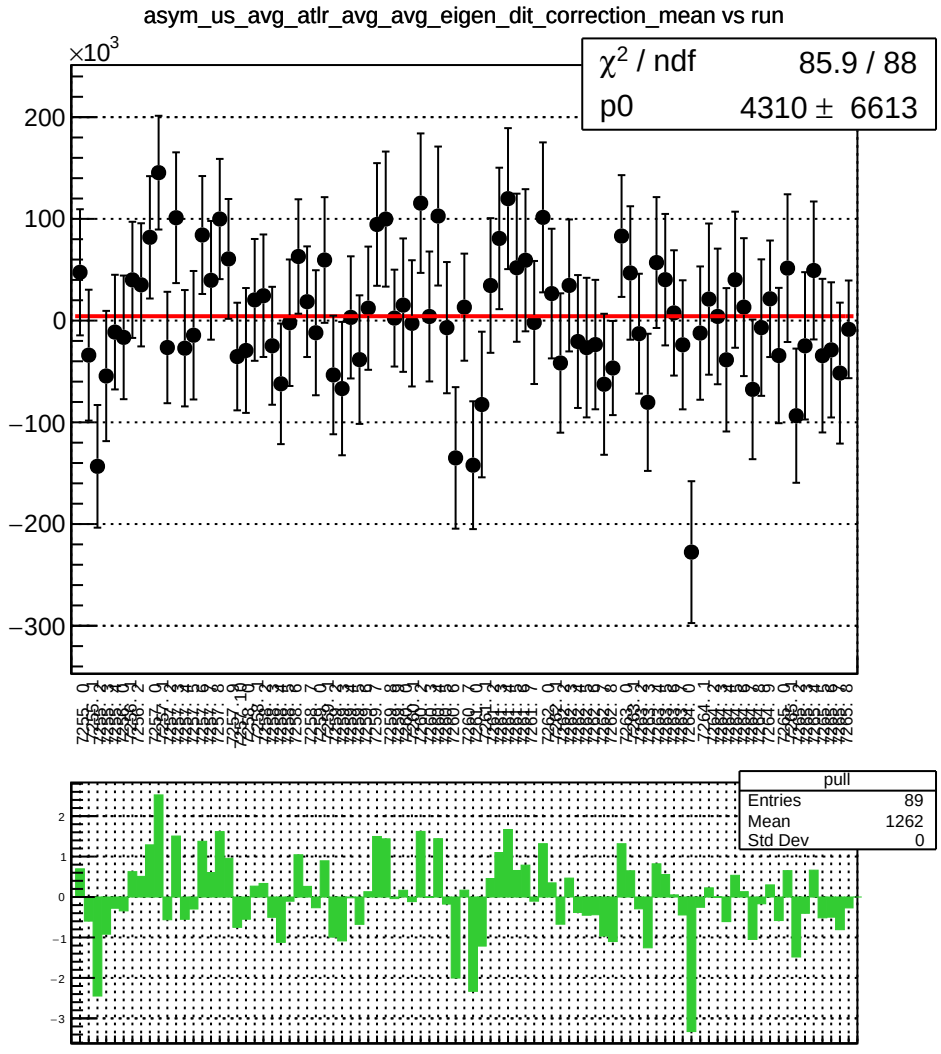

pull1D
Entries 89
Mean −0.003432
Std Dev 0.9824

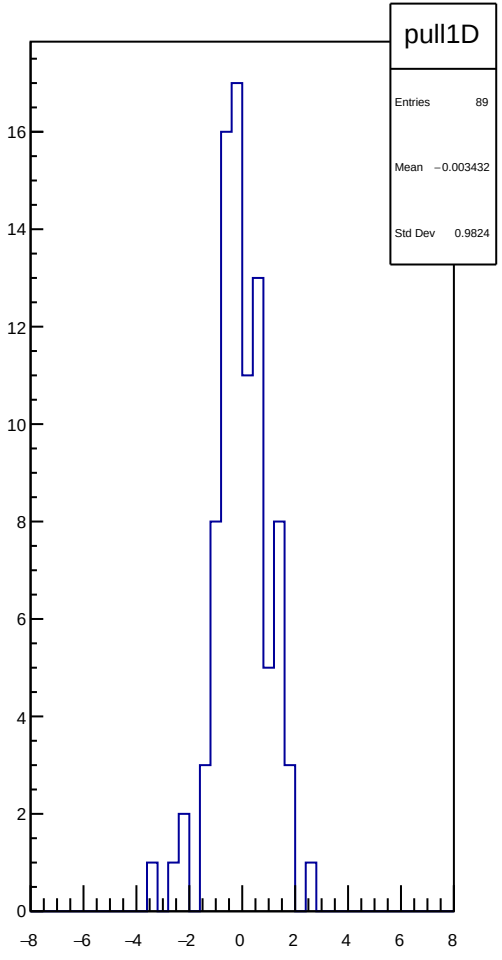

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 8673 / 88
p0 6072 ± 4.676
7000
6500
6000
5500
5000

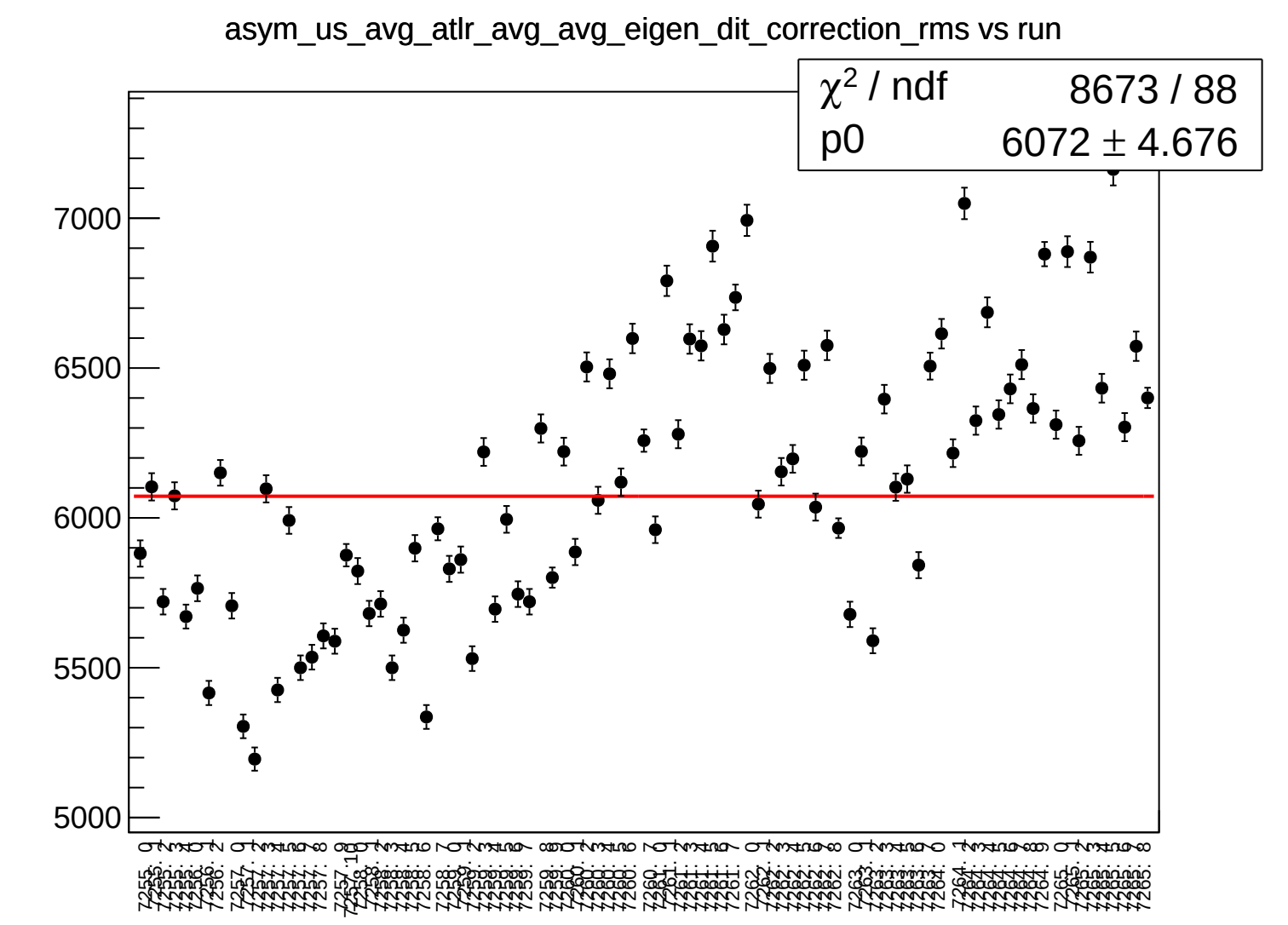

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 81.4 / 88
p0 −4552 ± 1940
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −329.7
Std Dev 0
2
1
0
−1
−2
−3

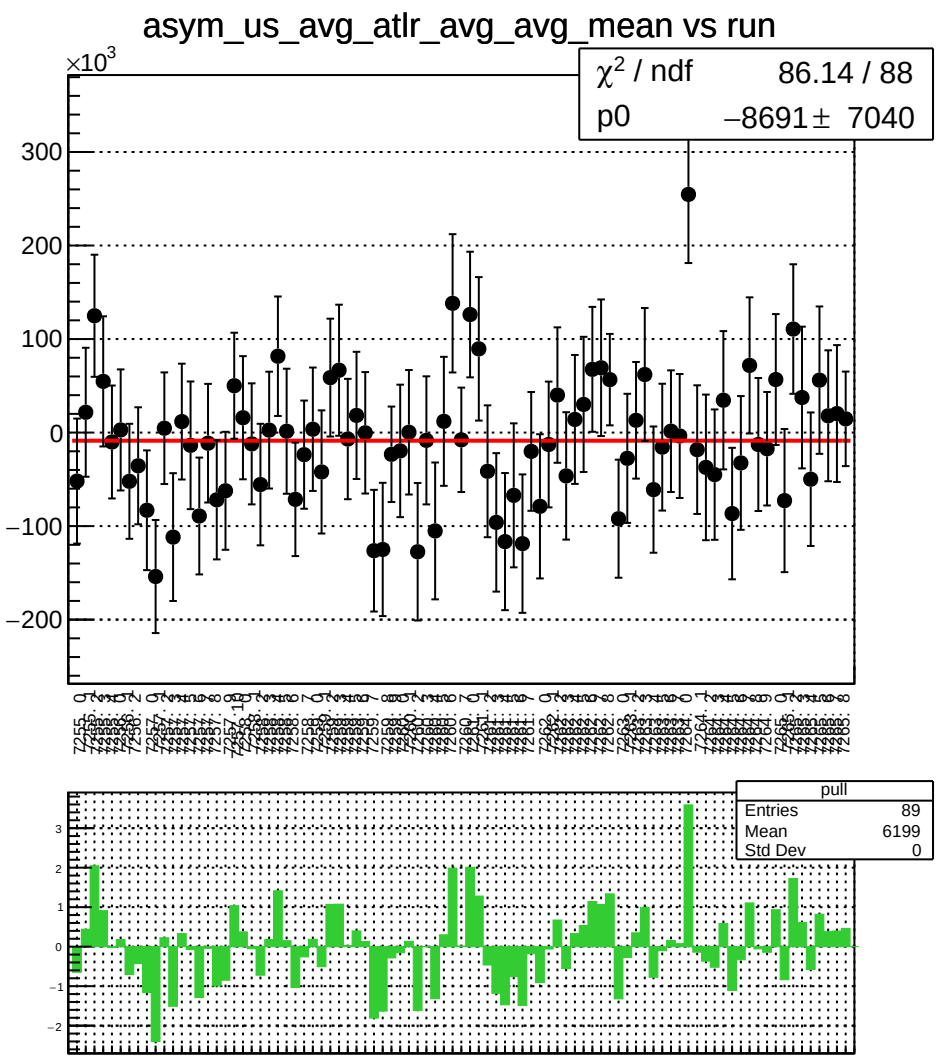

pull1D
Entries 89
Mean −0.004649
Std Dev 0.9563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

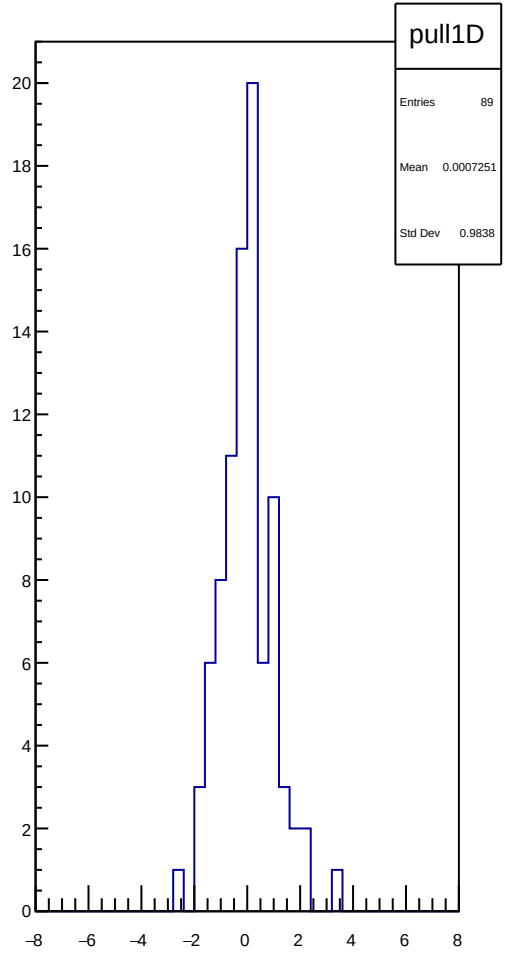

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 373.3 / 88
p0 1786 ± 1.372
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

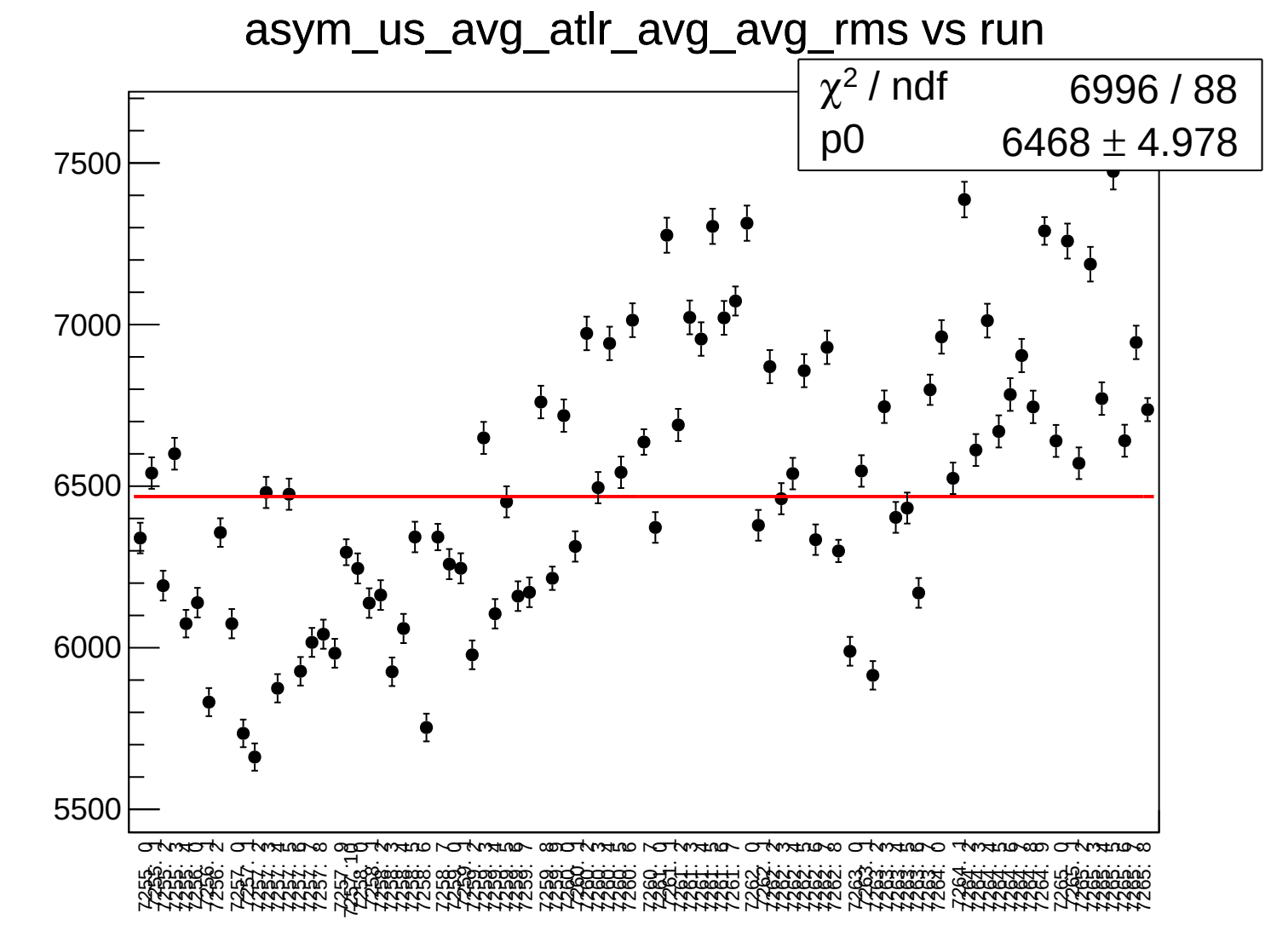

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.9 / 88
p0 4310 ± 6613
pull
Entries 89
Mean 1262
Std Dev 0

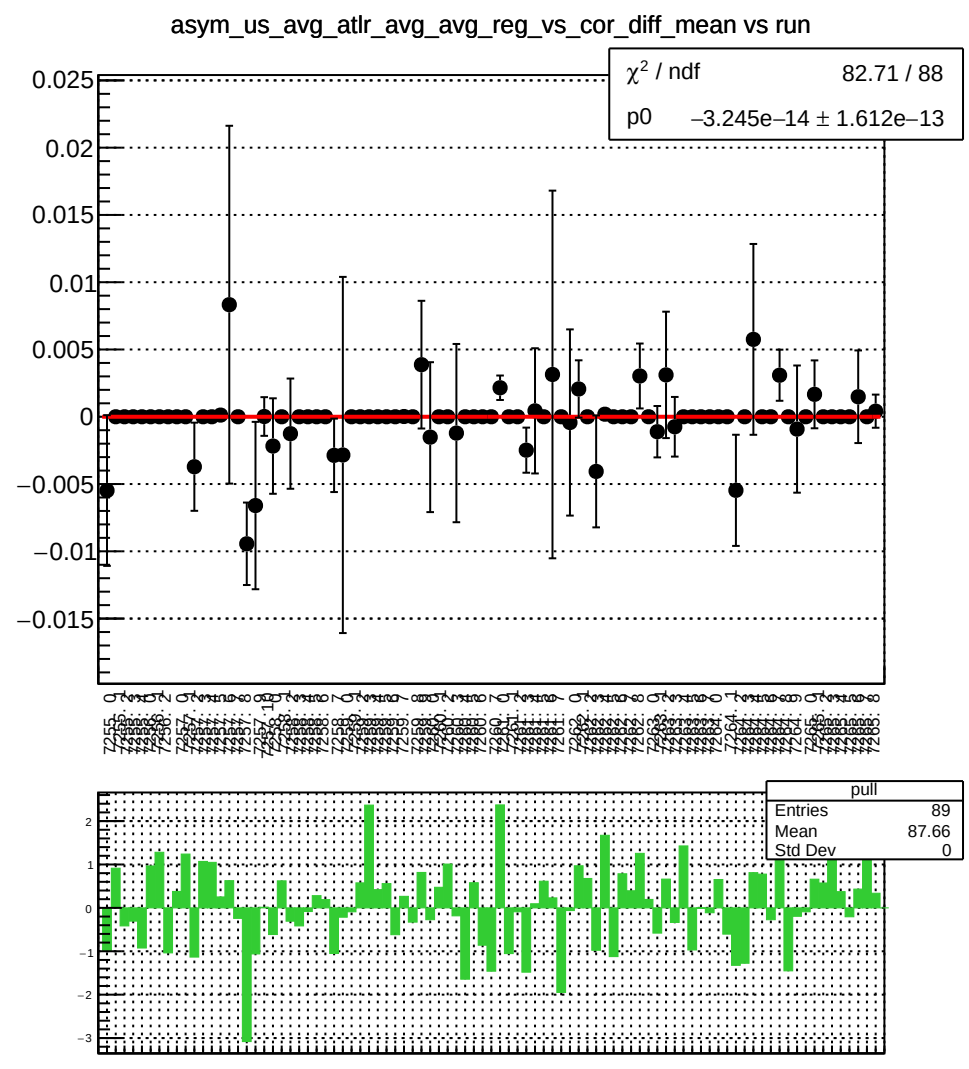

pull1D
Entries 89
Mean −0.003432
Std Dev 0.9824

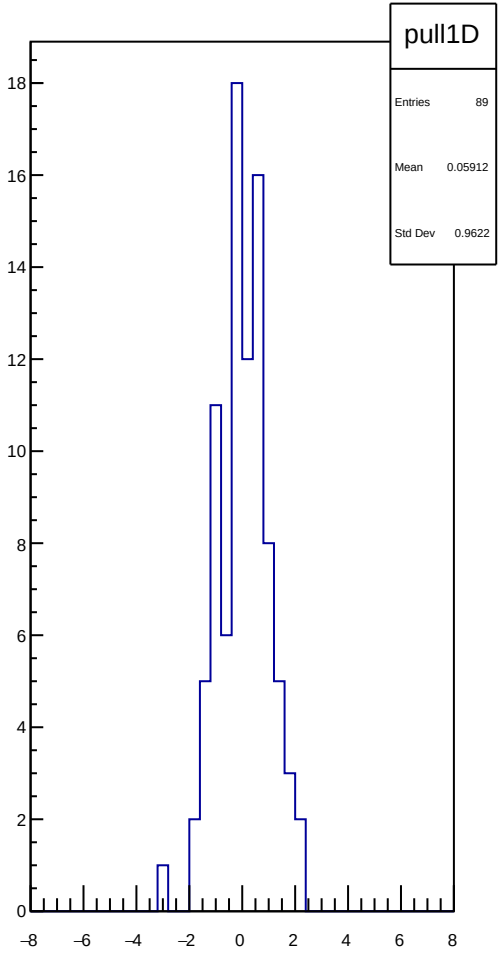

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 8673 / 88
p0 6072 ± 4.676
7000
6500
6000
5500
5000

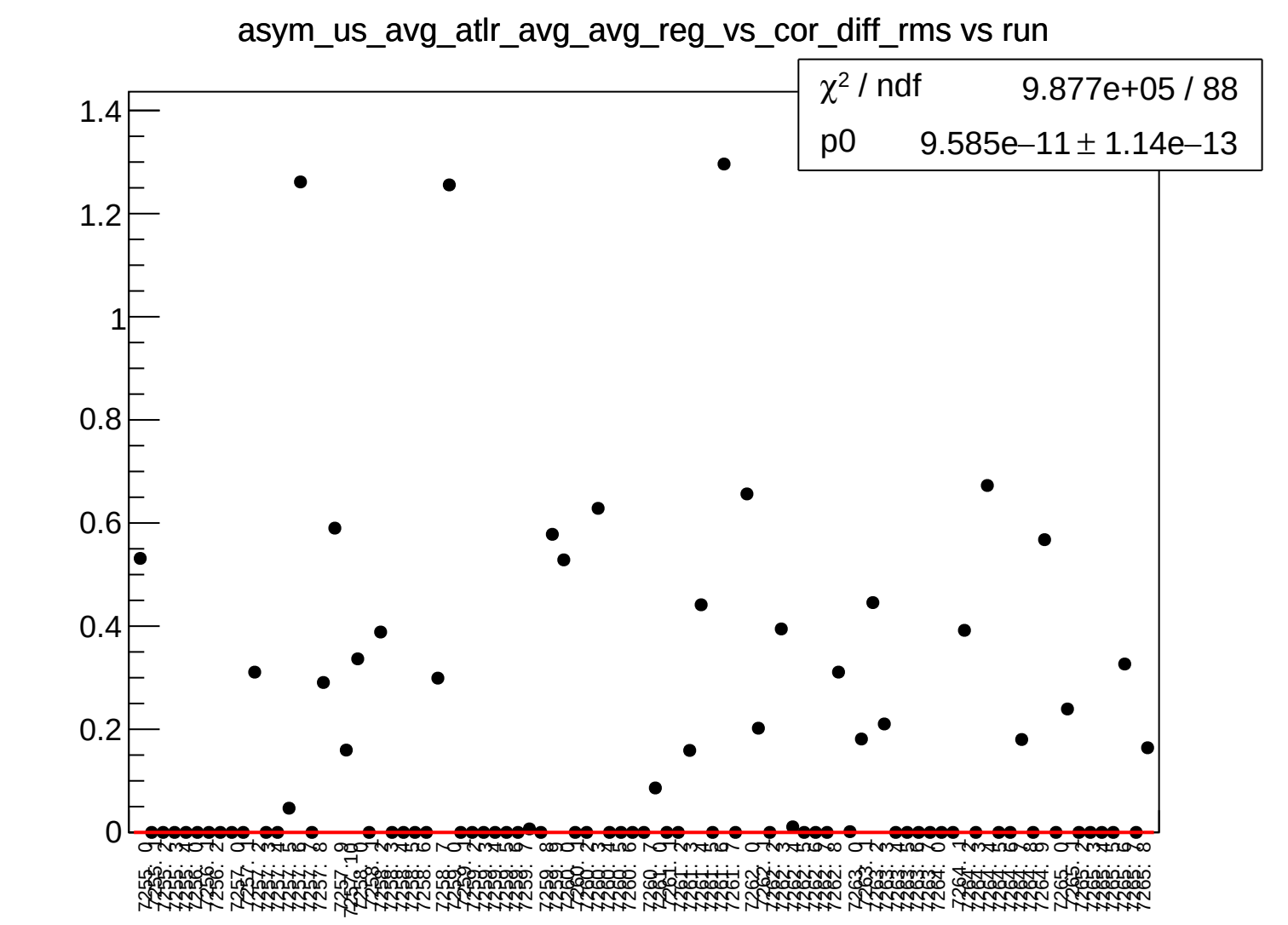

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 86.14 / 88
p0 −8691 ± 7040
300
200
100
0
−100
−200
pull
Entries 89
Mean 6199
Std Dev 0
3
2
1
0
−1
−2

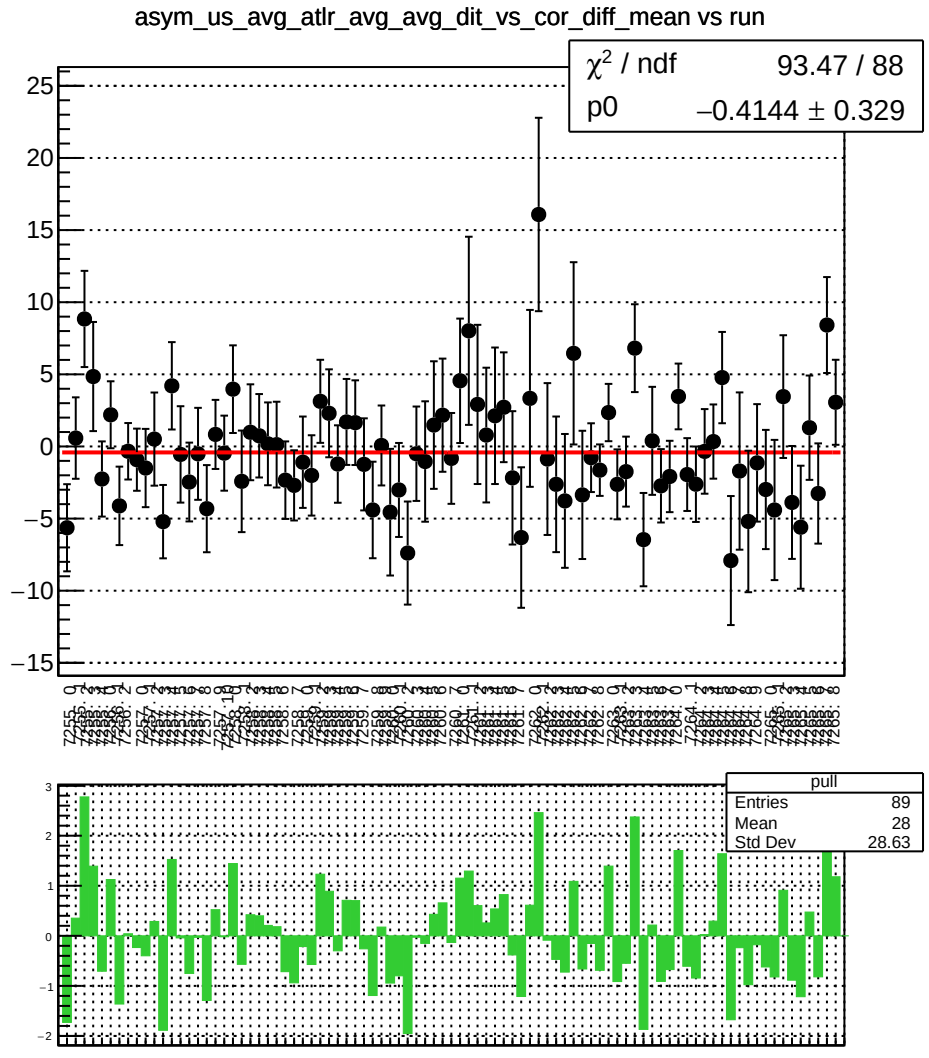

pull1D
Entries 89
Mean 0.0007251
Std Dev 0.9838
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

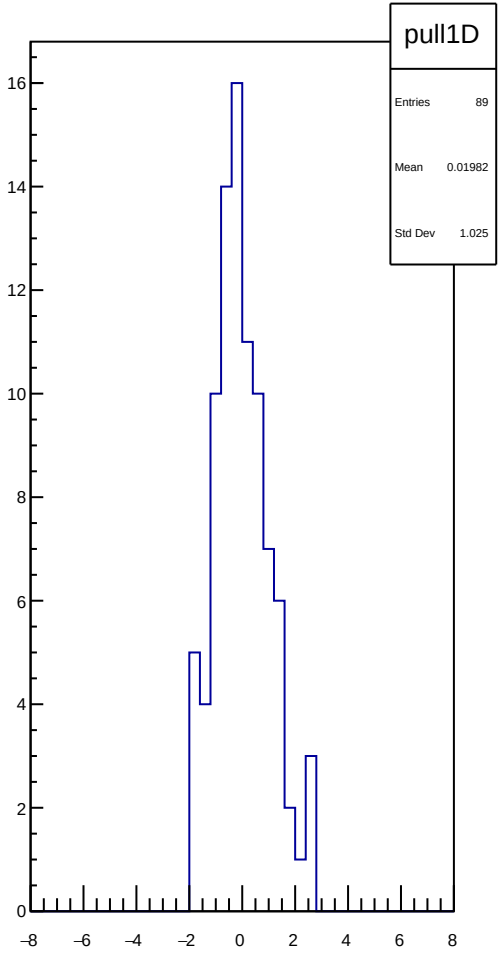

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 6996 / 88
p0 6468 ± 4.978
7500
7000
6500
6000
5500

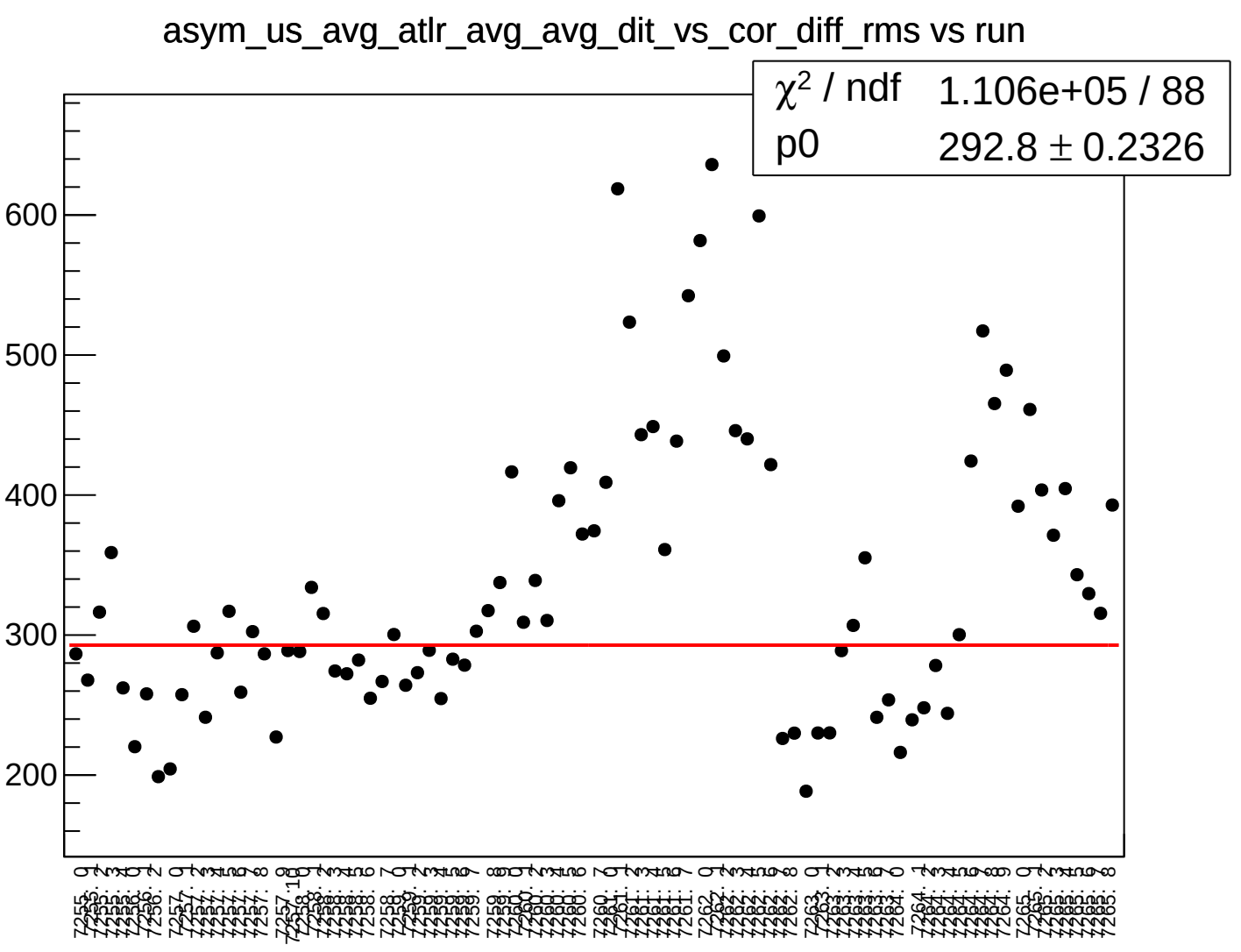

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.71 / 88
p0 −3.245e−14 ± 1.612e−13
pull
Entries 89
Mean 87.66
Std Dev 0

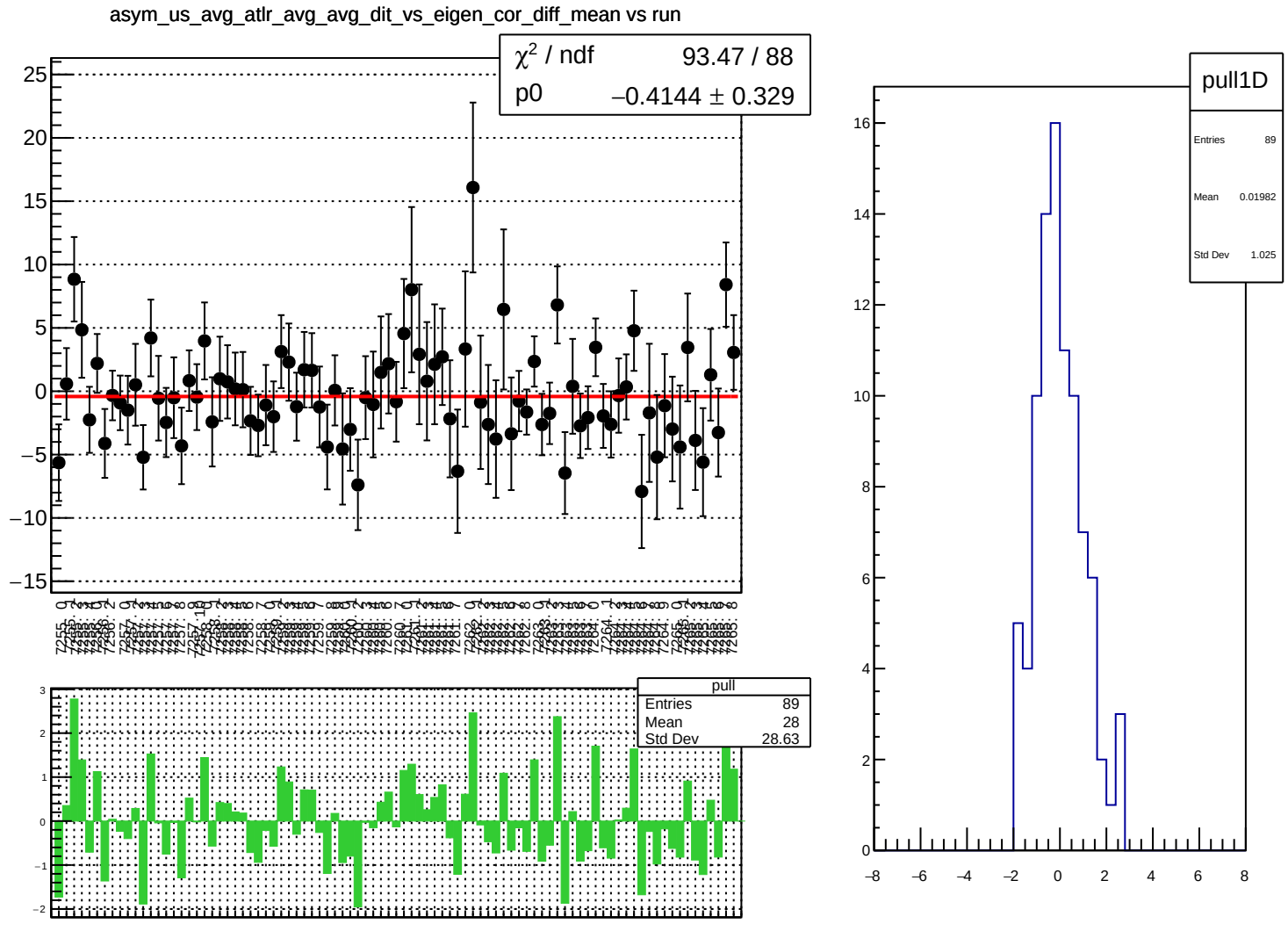

pull1D
Entries 89
Mean 0.05912
Std Dev 0.9622

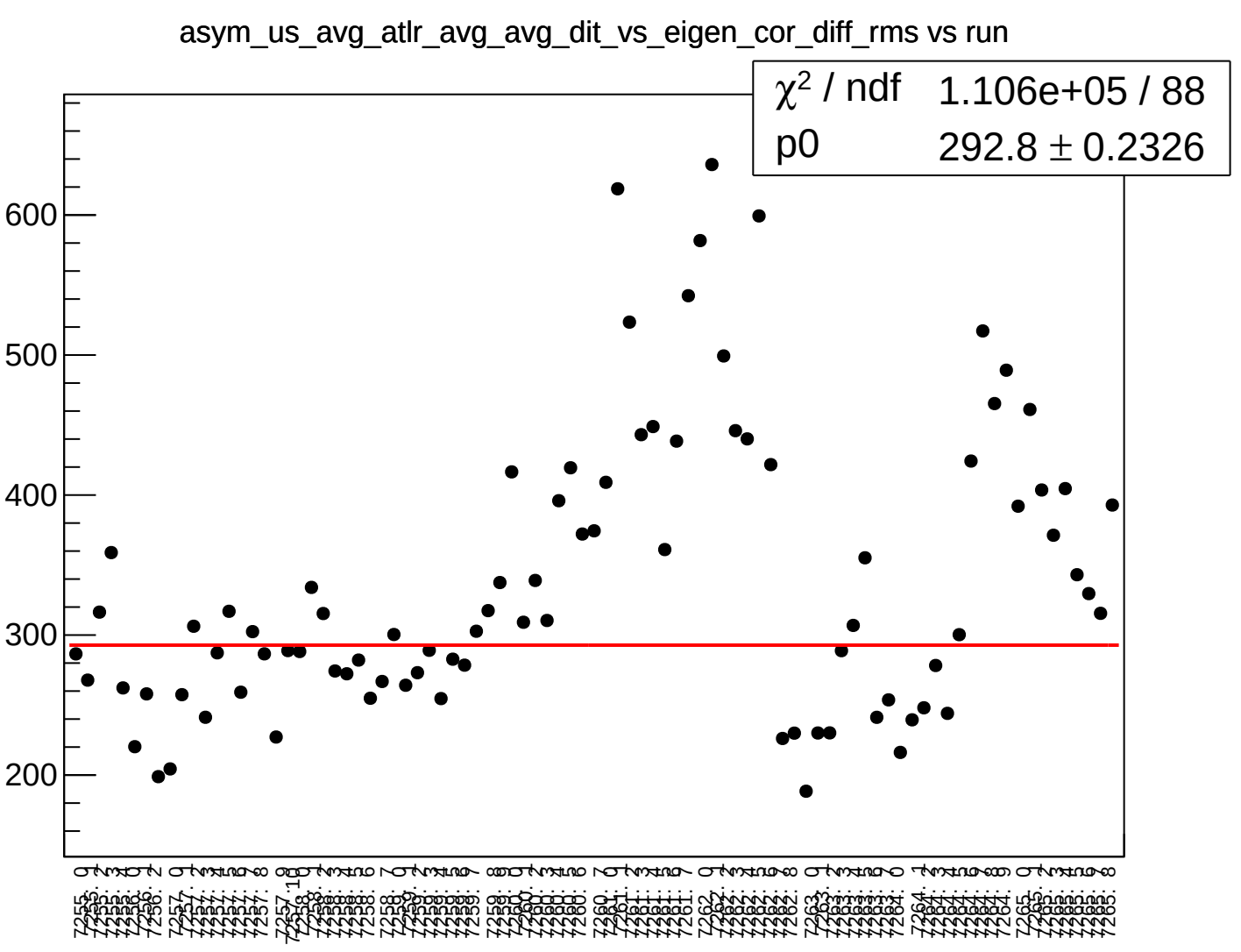

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.877e+05 / 88
p0 9.585e−11 ± 1.14e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

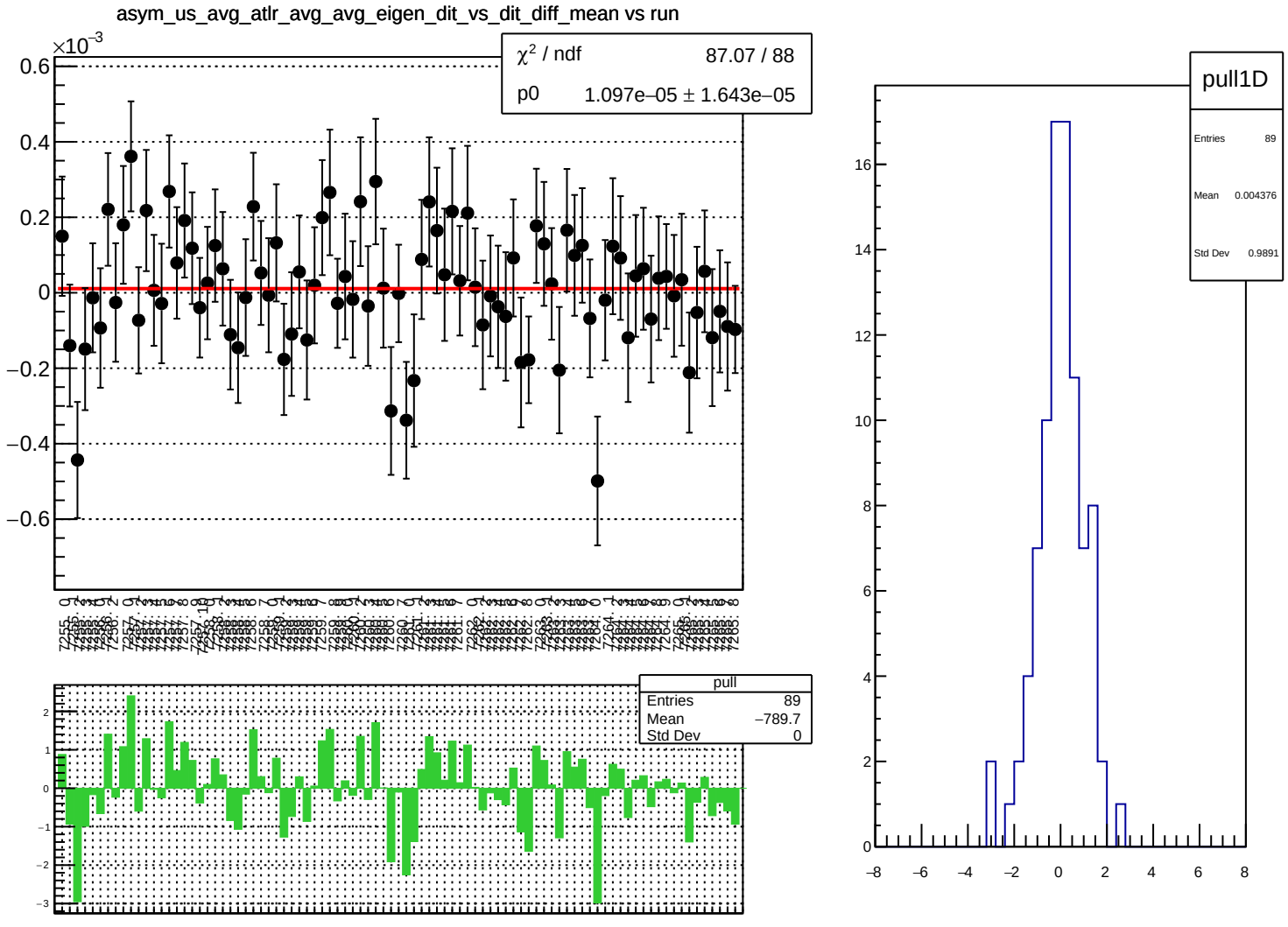

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.47 / 88
p0 −0.4144 ± 0.329
pull
Entries 89
Mean 28
Std Dev 28.63

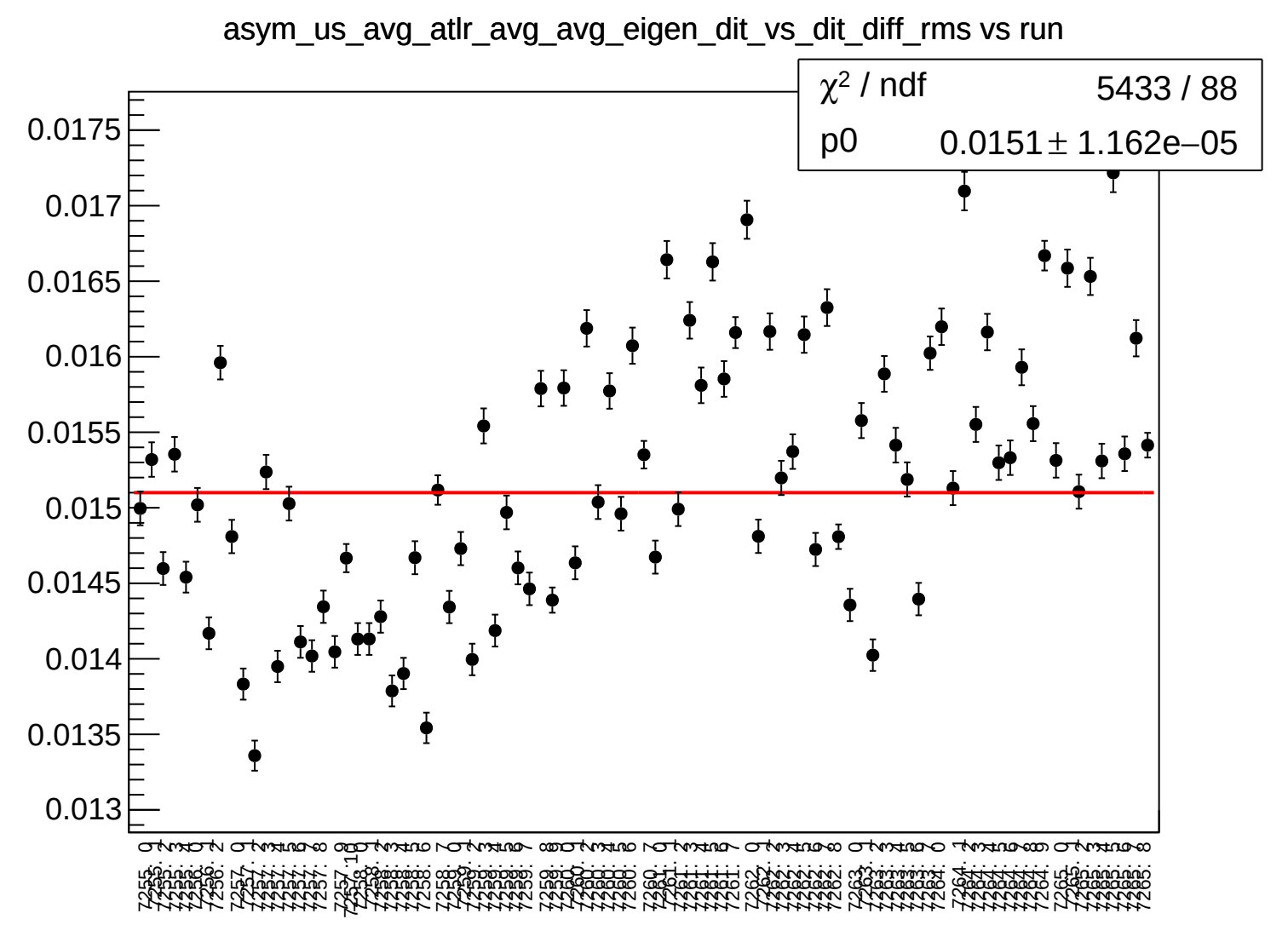

pull1D
Entries 89
Mean 0.01982
Std Dev 1.025

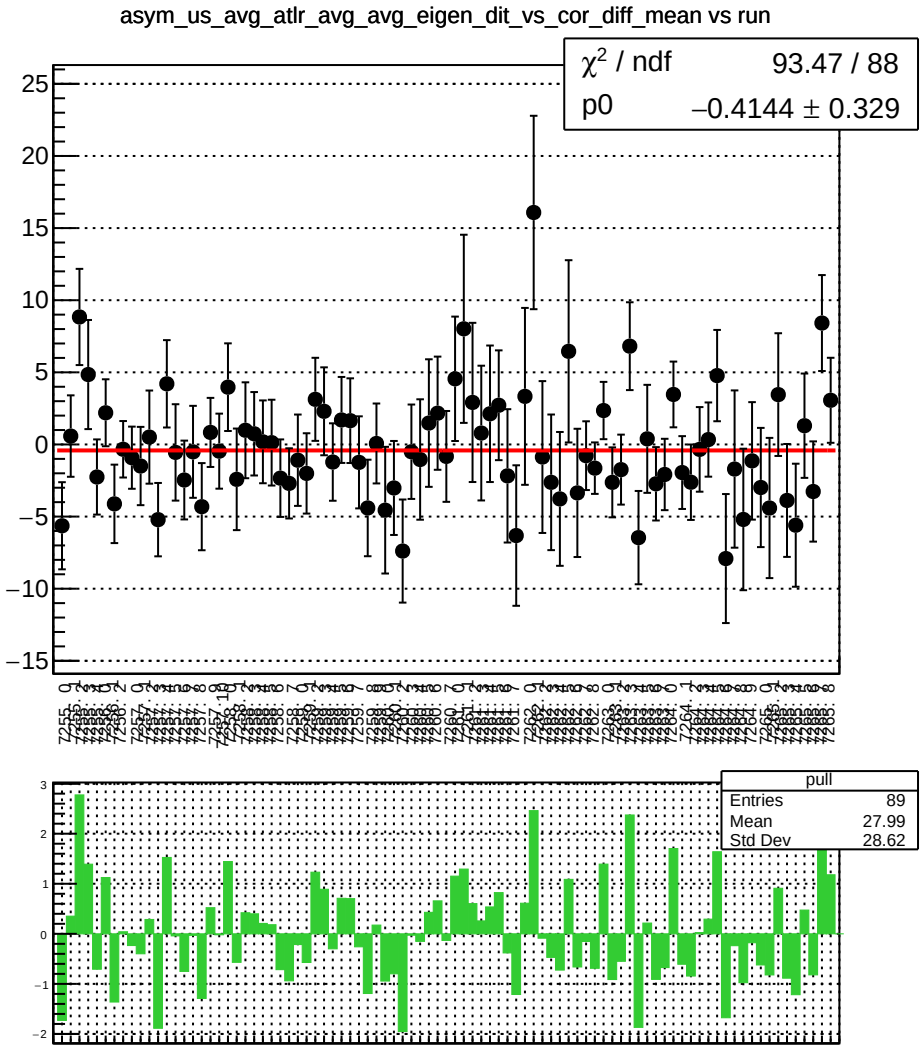

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.106e+05 / 88
p0 292.8 ± 0.2326
600
500
400
300
200

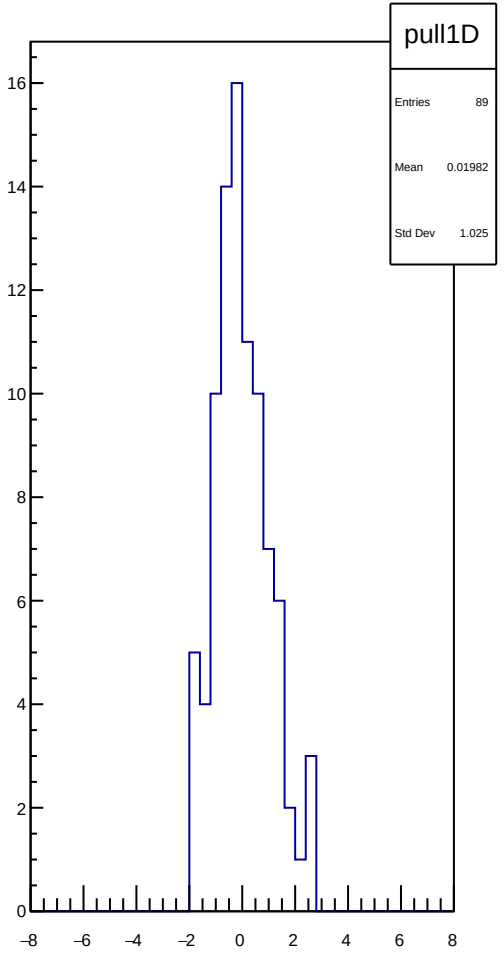

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.47 / 88
p0 −0.4144 ± 0.329
pull
Entries 89
Mean 28
Std Dev 28.63
pull1D
Entries 89
Mean 0.01982
Std Dev 1.025

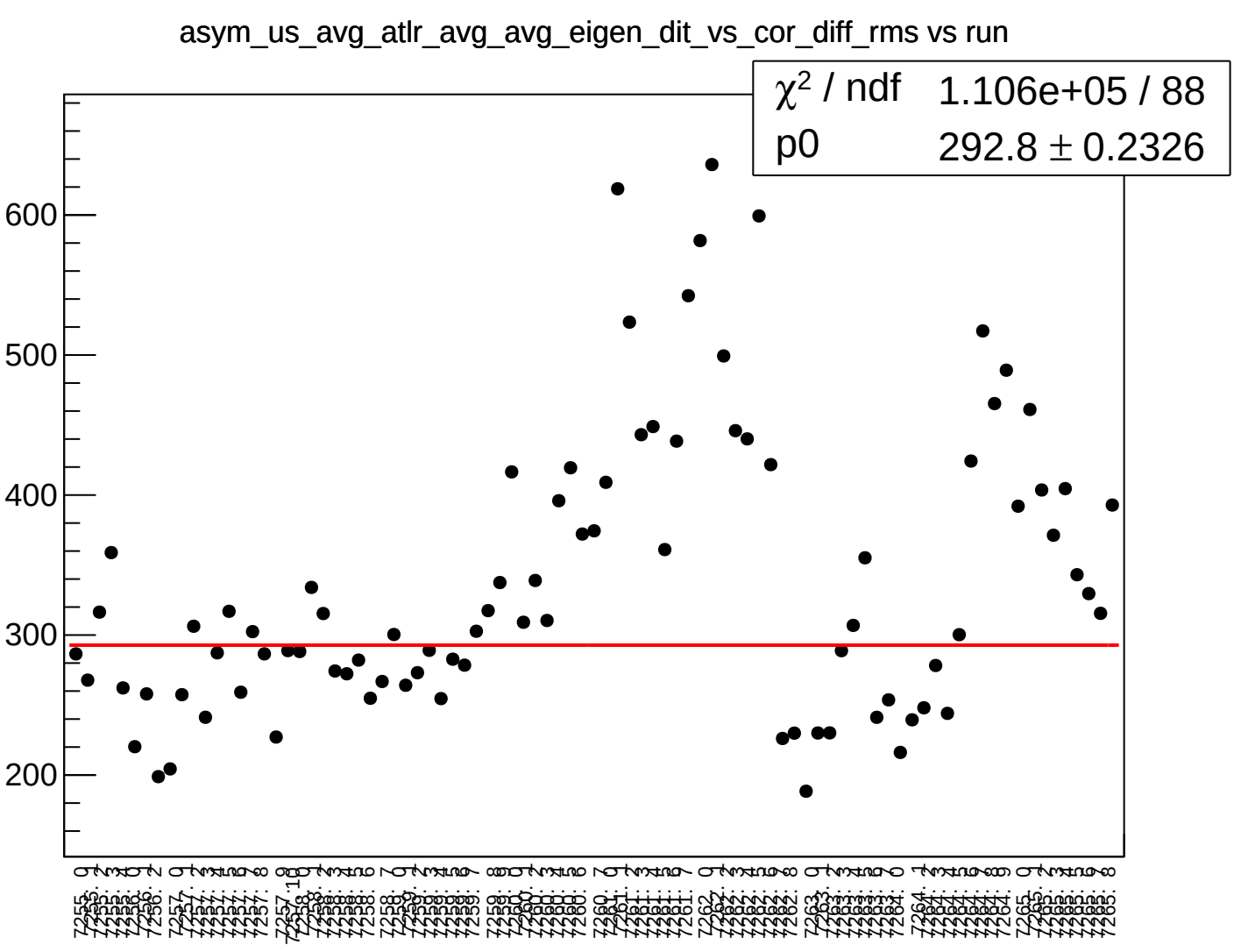

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.106e+05 / 88
p0 292.8 ± 0.2326
600
500
400
300
200

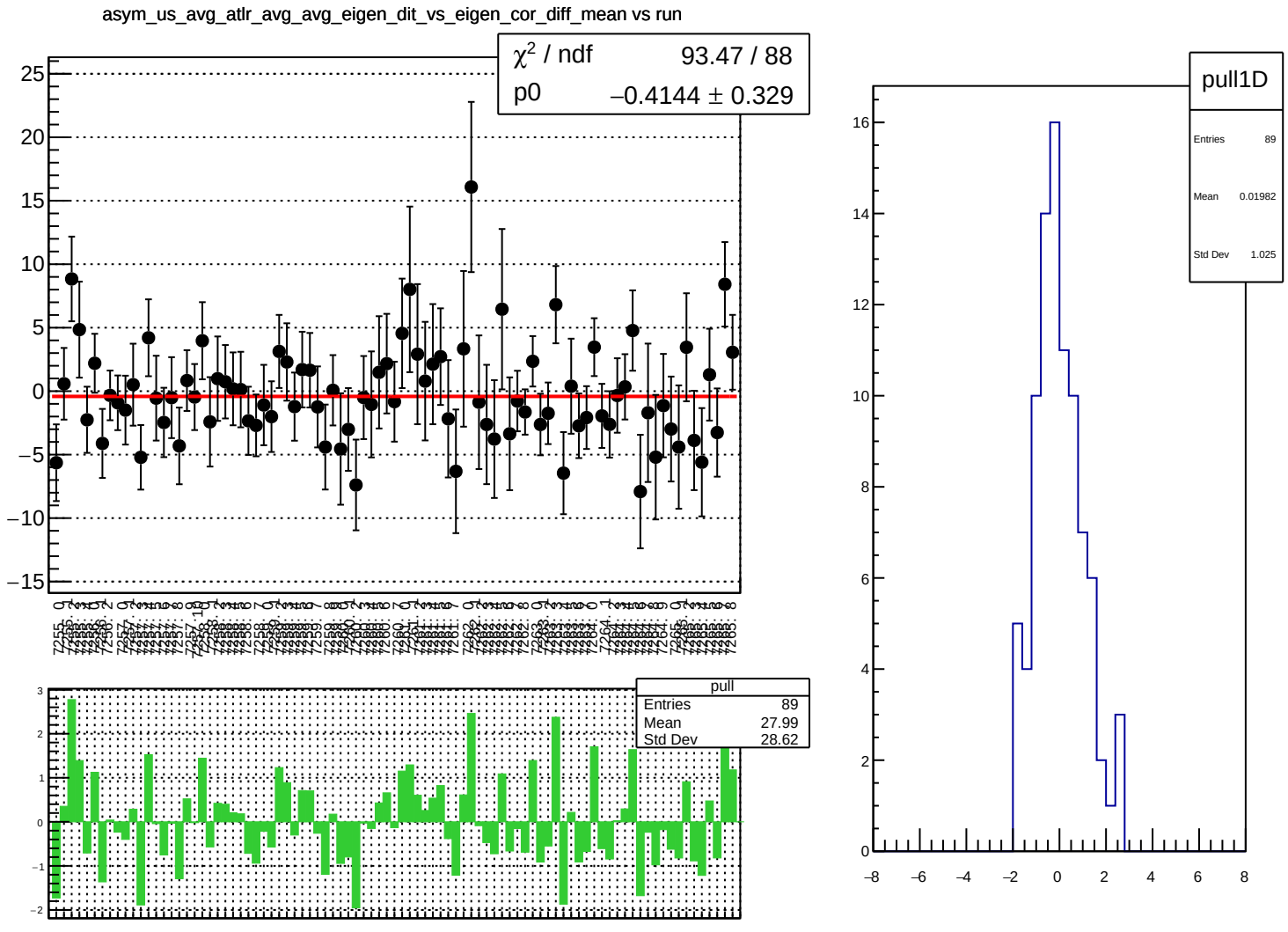

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.07 / 88
p0 1.097e−05 ± 1.643e−05
pull
Entries 89
Mean −789.7
Std Dev 0
pull1D
Entries 89
Mean 0.004376
Std Dev 0.9891

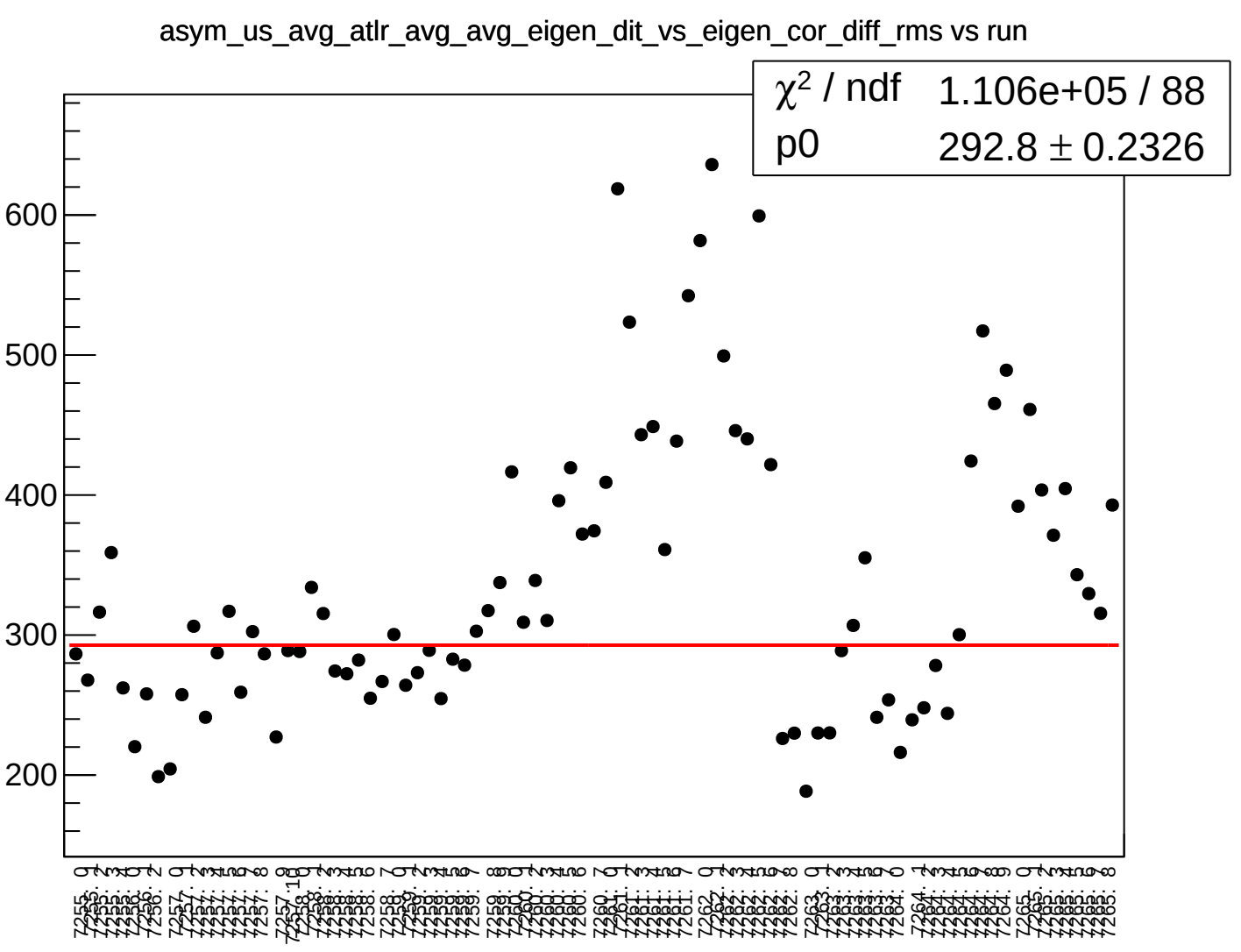

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5433 / 88
p0 0.0151 ± 1.162e−05
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013

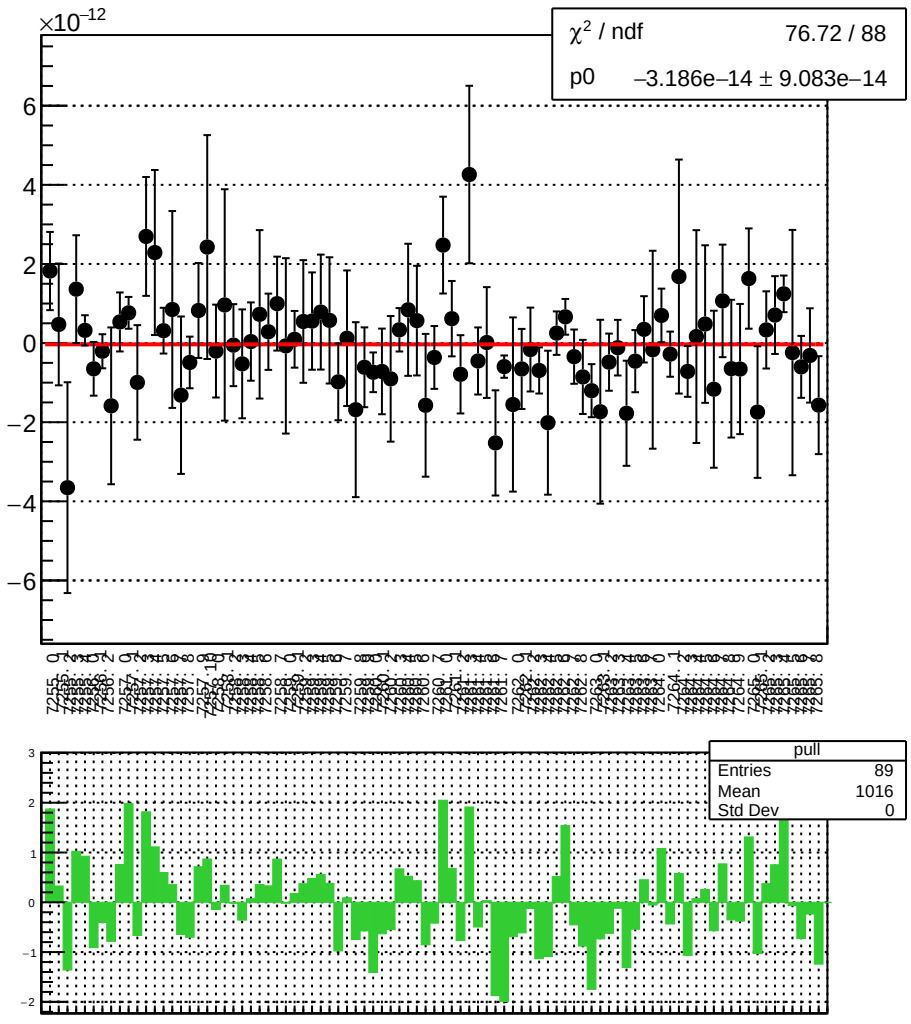

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.47 / 88
p0 −0.4144 ± 0.329
pull
Entries 89
Mean 27.99
Std Dev 28.62

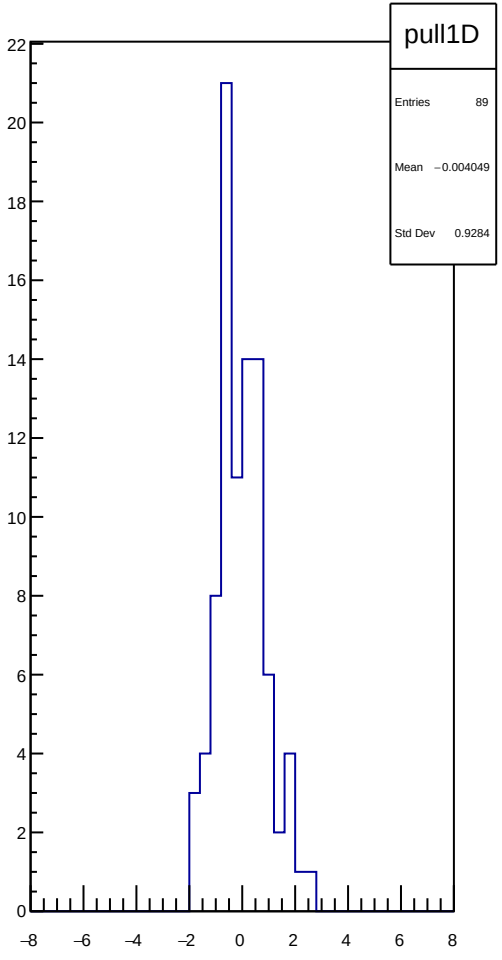

pull1D
Entries 89
Mean 0.01982
Std Dev 1.025

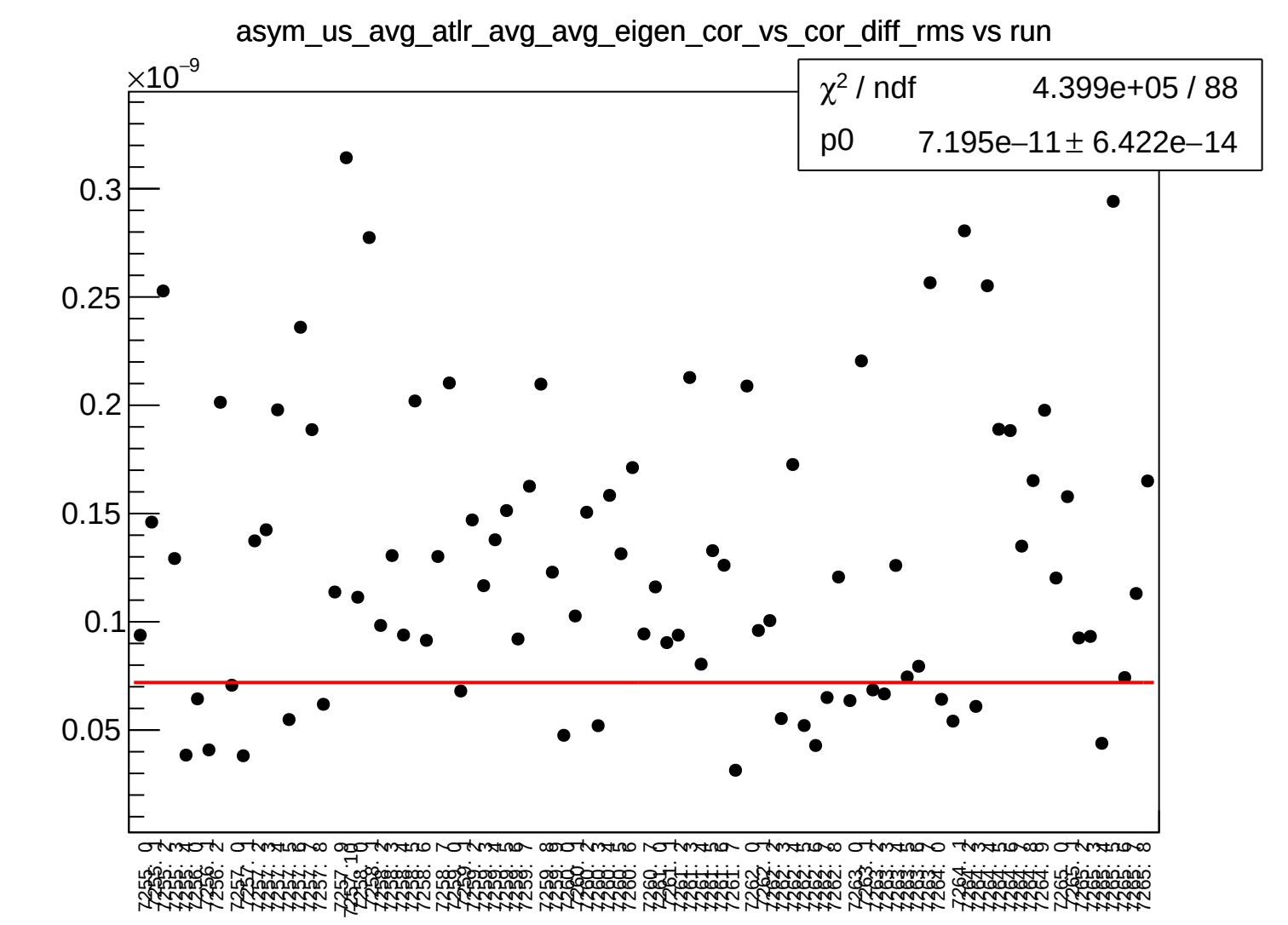

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.106e+05 / 88
p0 292.8 ± 0.2326
600
500
400
300
200

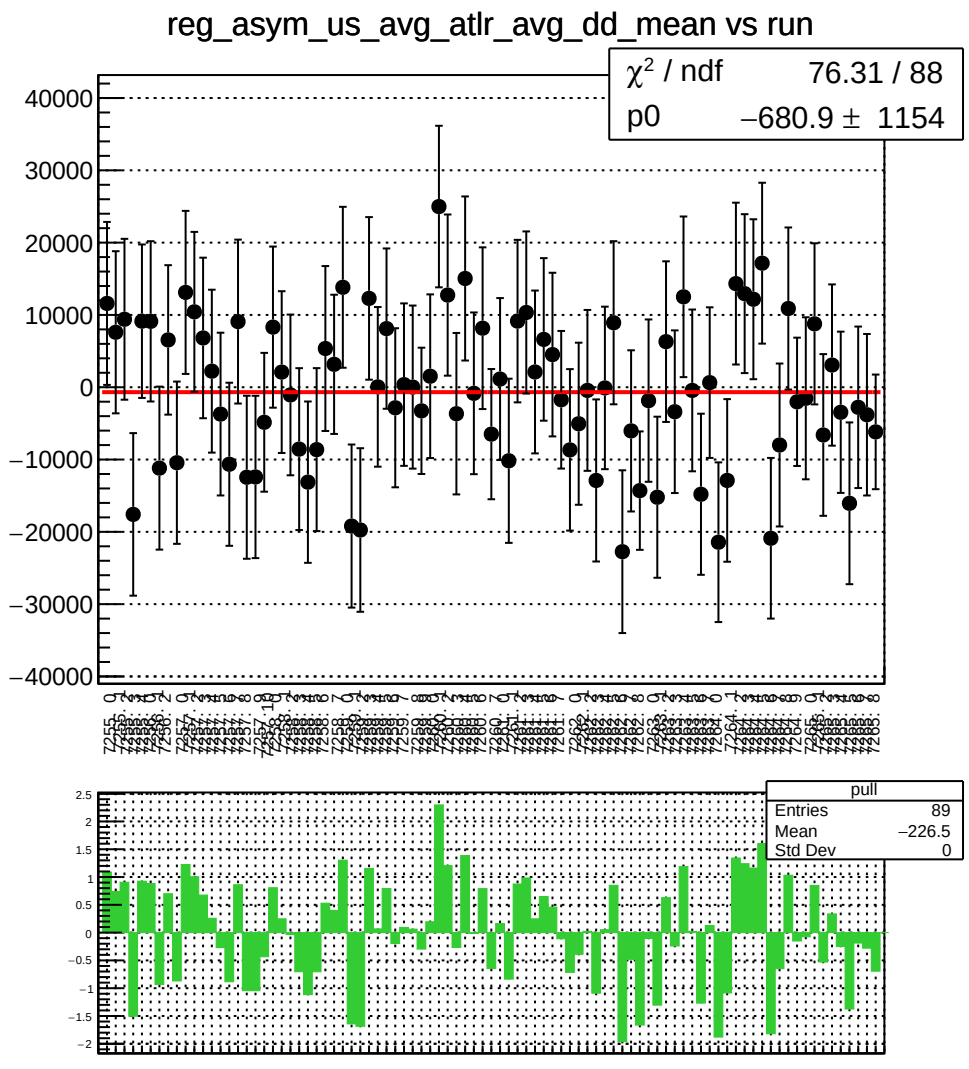

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.47 / 88
p0 −0.4144 ± 0.329
pull
Entries 89
Mean 27.99
Std Dev 28.62
pull1D
Entries 89
Mean 0.01982
Std Dev 1.025

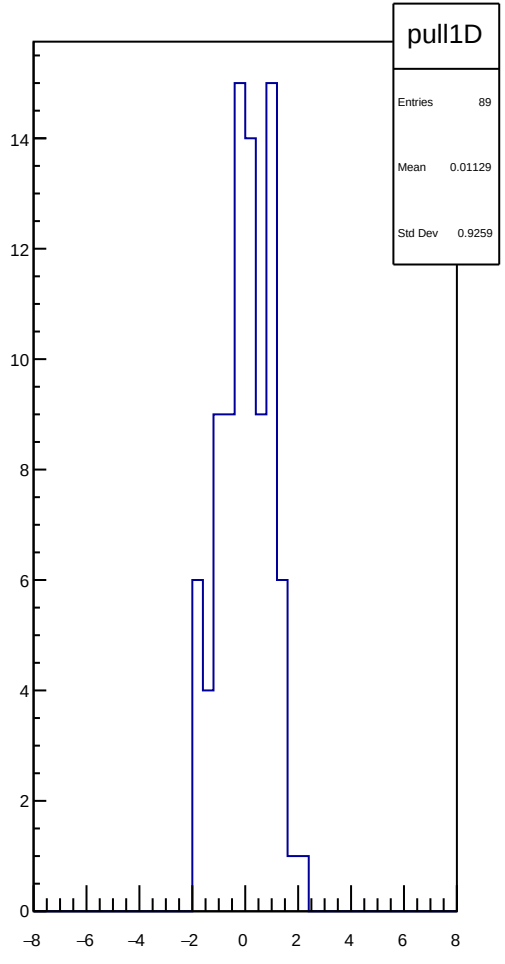

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.106e+05 / 88
p0 292.8 ± 0.2326
600
500
400
300
200

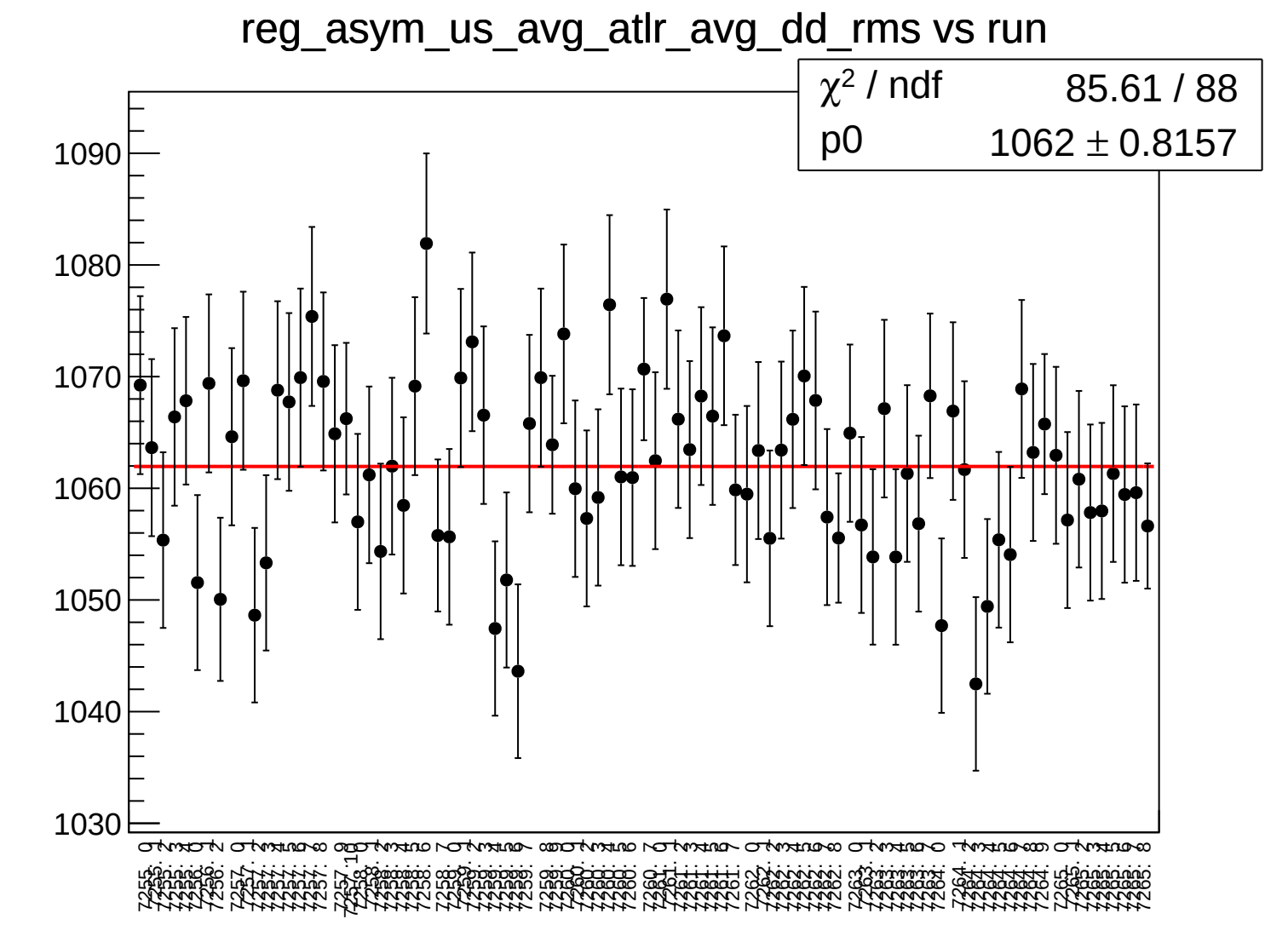

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.72 / 88
p0 −3.186e−14 ± 9.083e−14
pull
Entries 89
Mean 1016
Std Dev 0

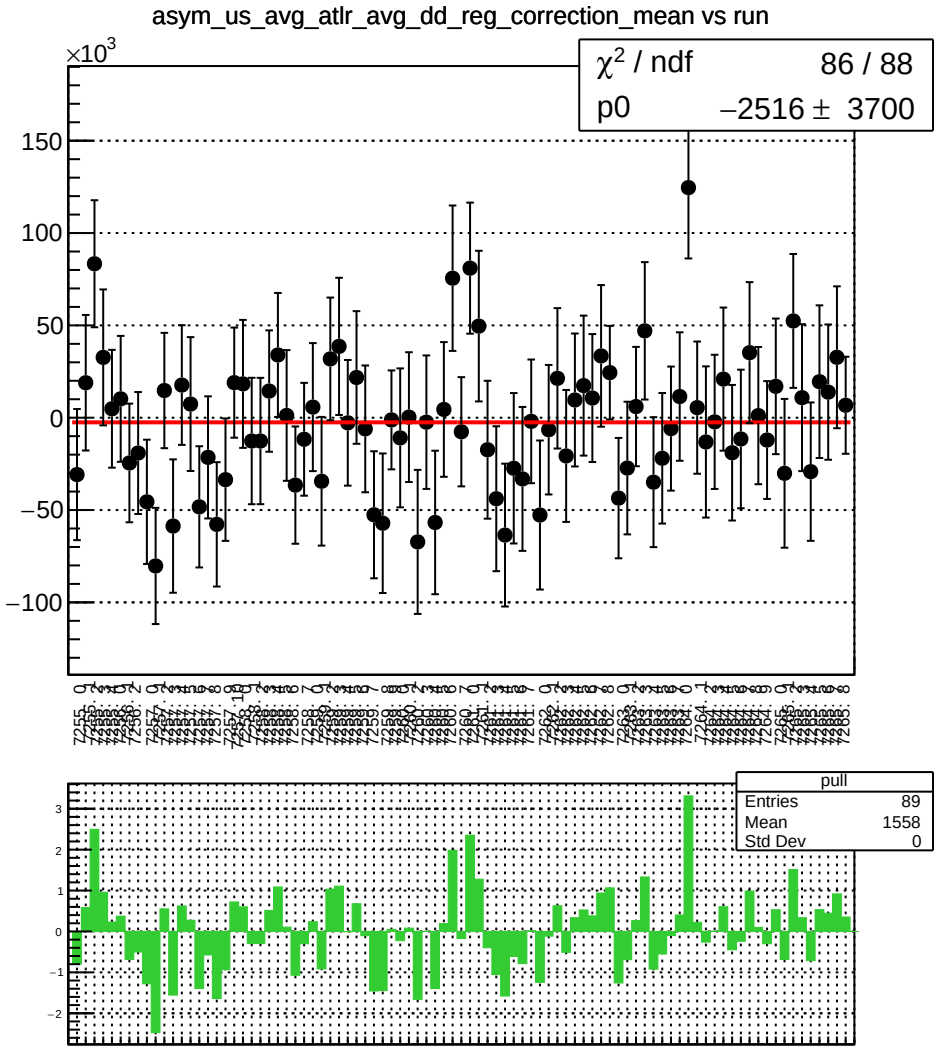

pull1D
Entries 89
Mean −0.004049
Std Dev 0.9284

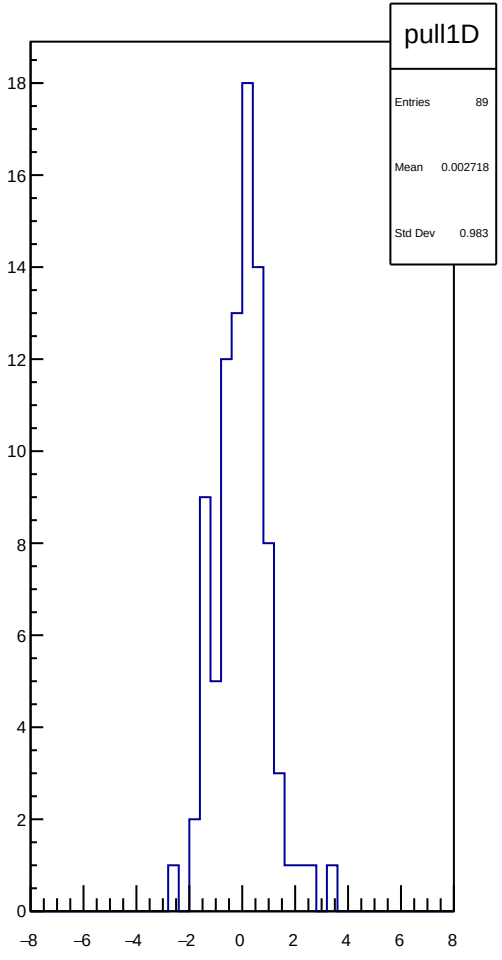

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.399e+05 / 88
p0 7.195e−11 ± 6.422e−14
0.3
0.25
0.2
0.15
0.1
0.05

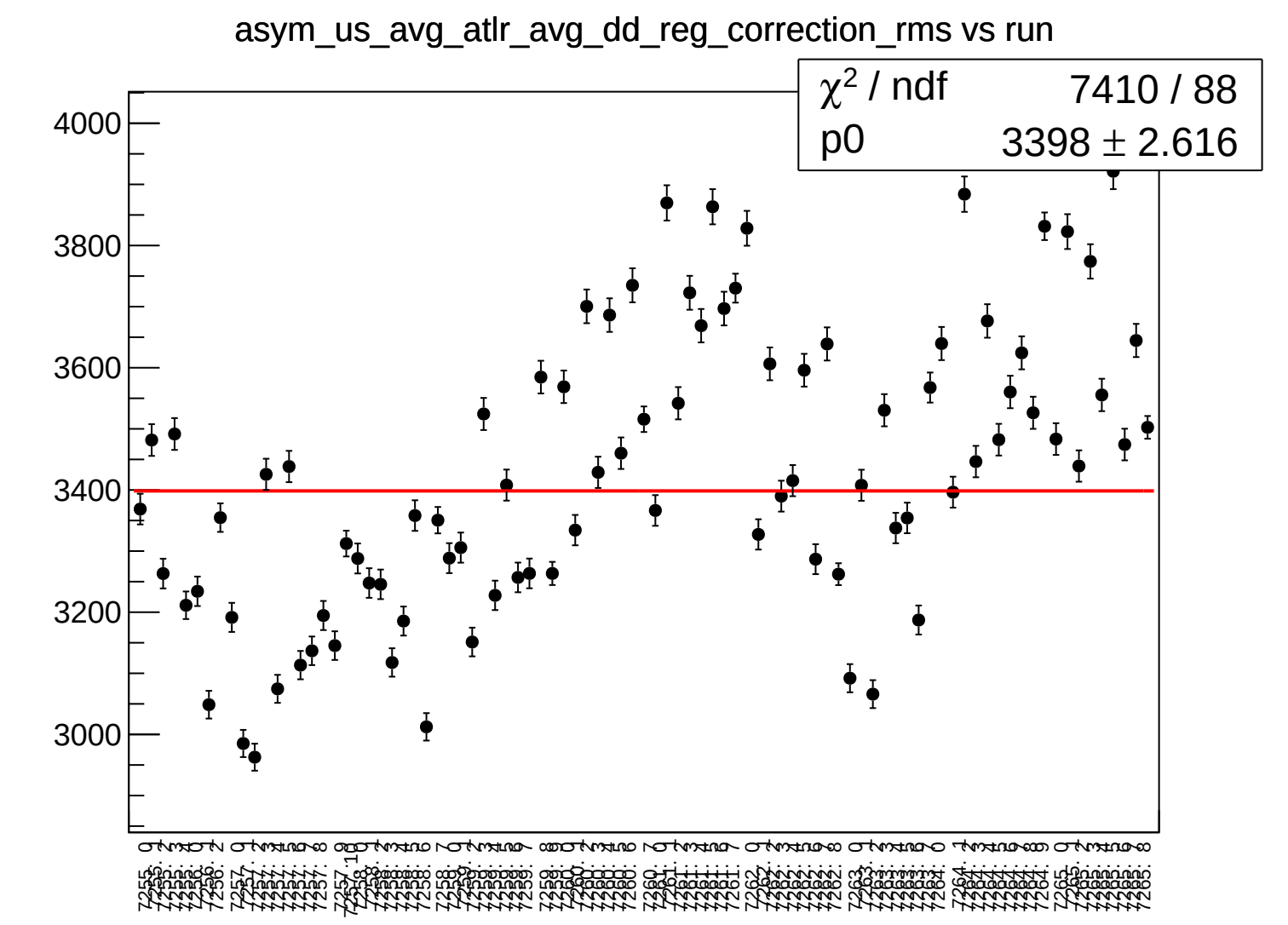

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 76.31 / 88
p0 −680.9 ± 1154
pull
Entries 89
Mean −226.5
Std Dev 0

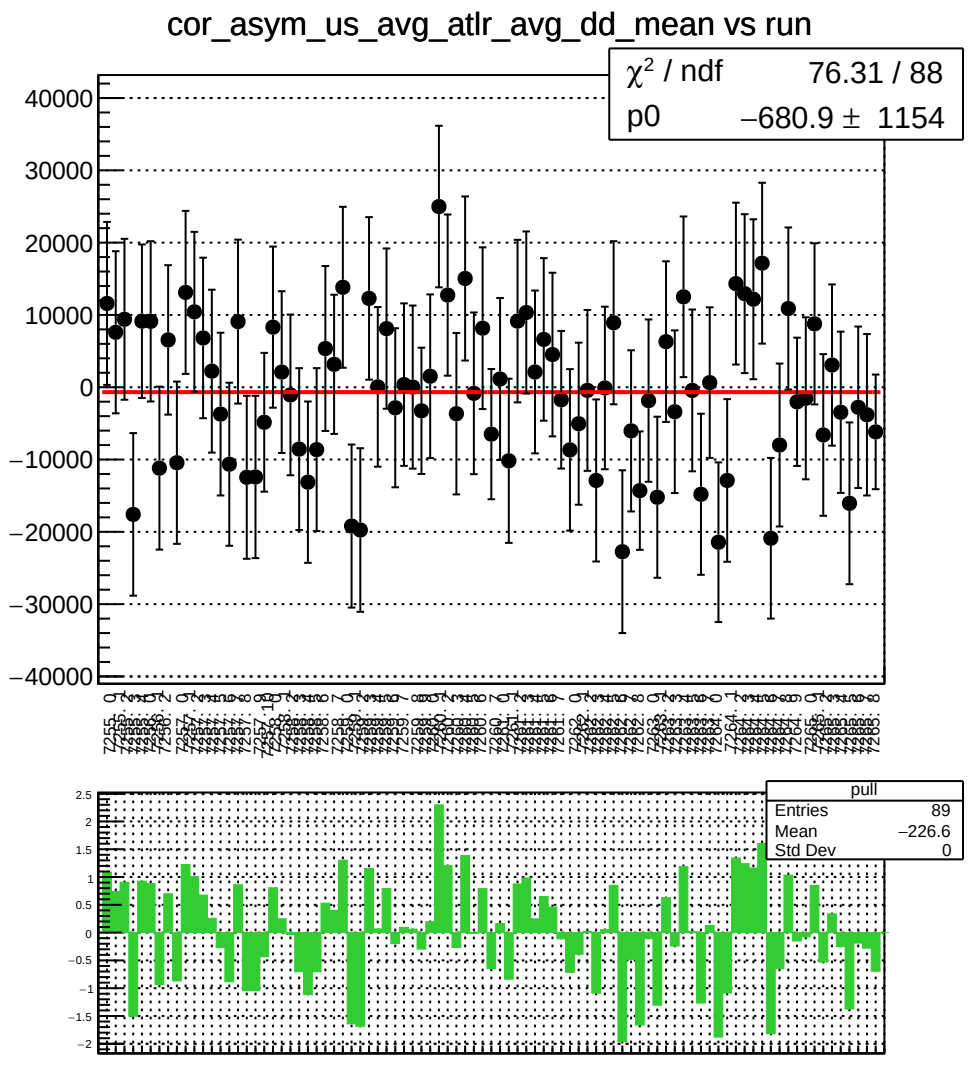

pull1D
Entries 89
Mean 0.01129
Std Dev 0.9259

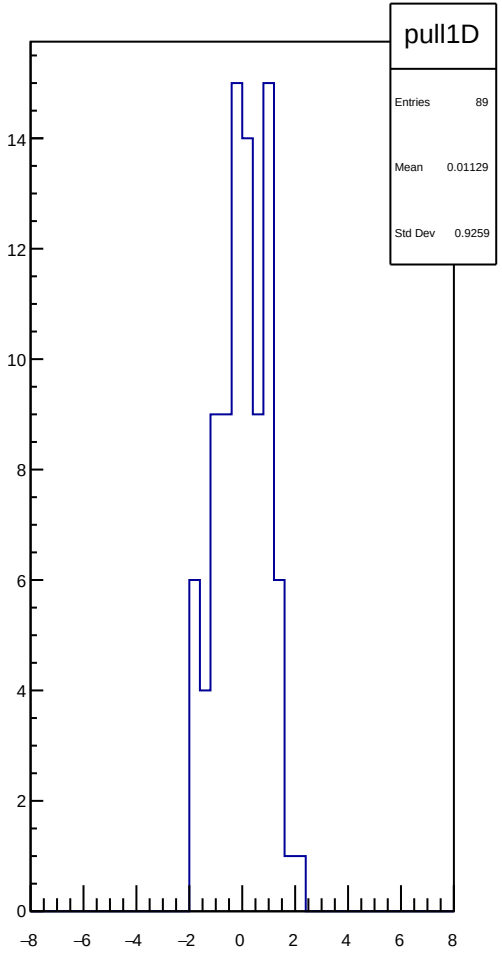

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 85.61 / 88
p0 1062 ± 0.8157
1090
1080
1070
1060
1050
1040
1030

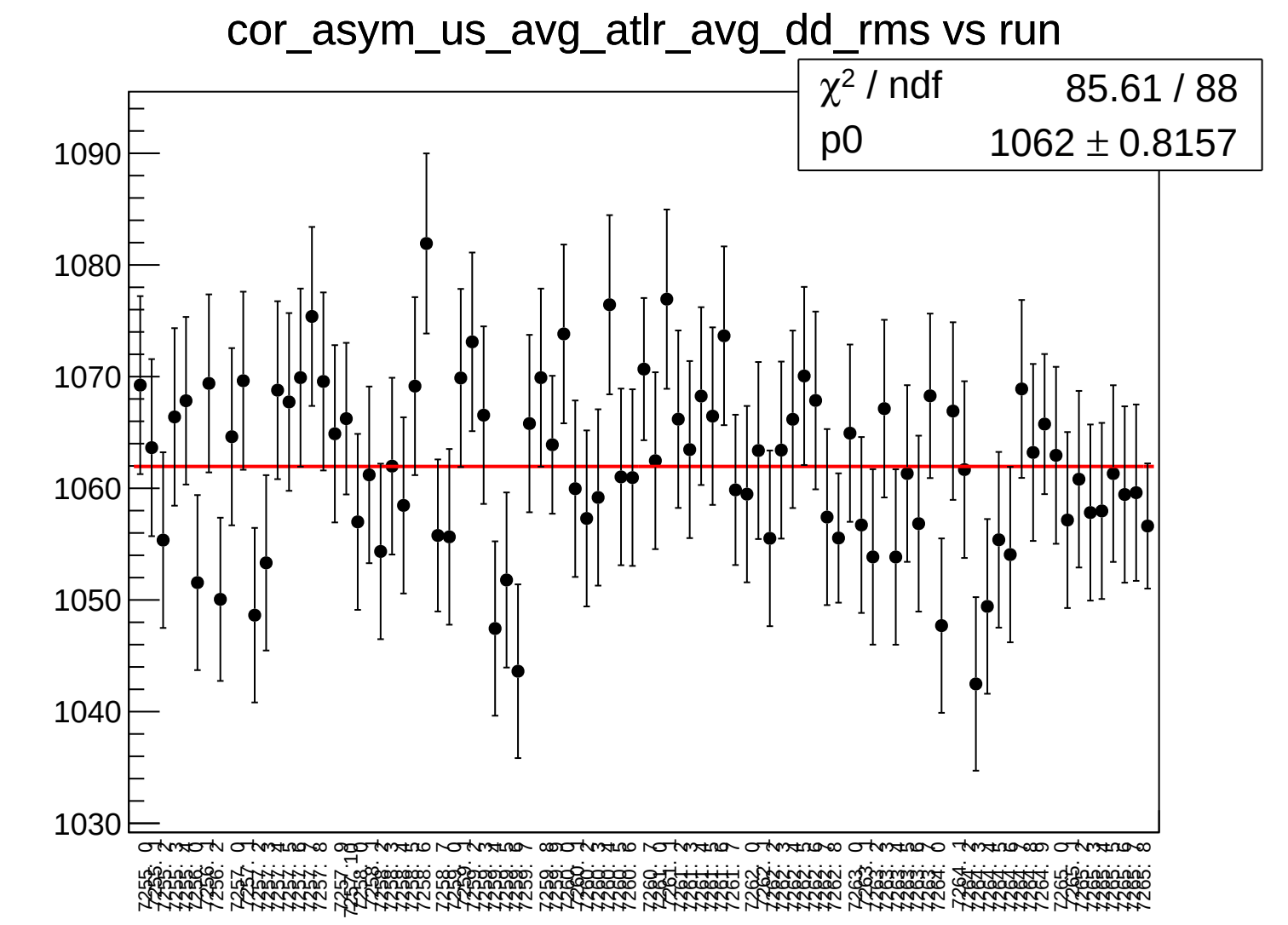

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86 / 88
p0 −2516 ± 3700
150
100
50
0
−50
−100
pull
Entries 89
Mean 1558
Std Dev 0
3
2
1
0
−1
−2

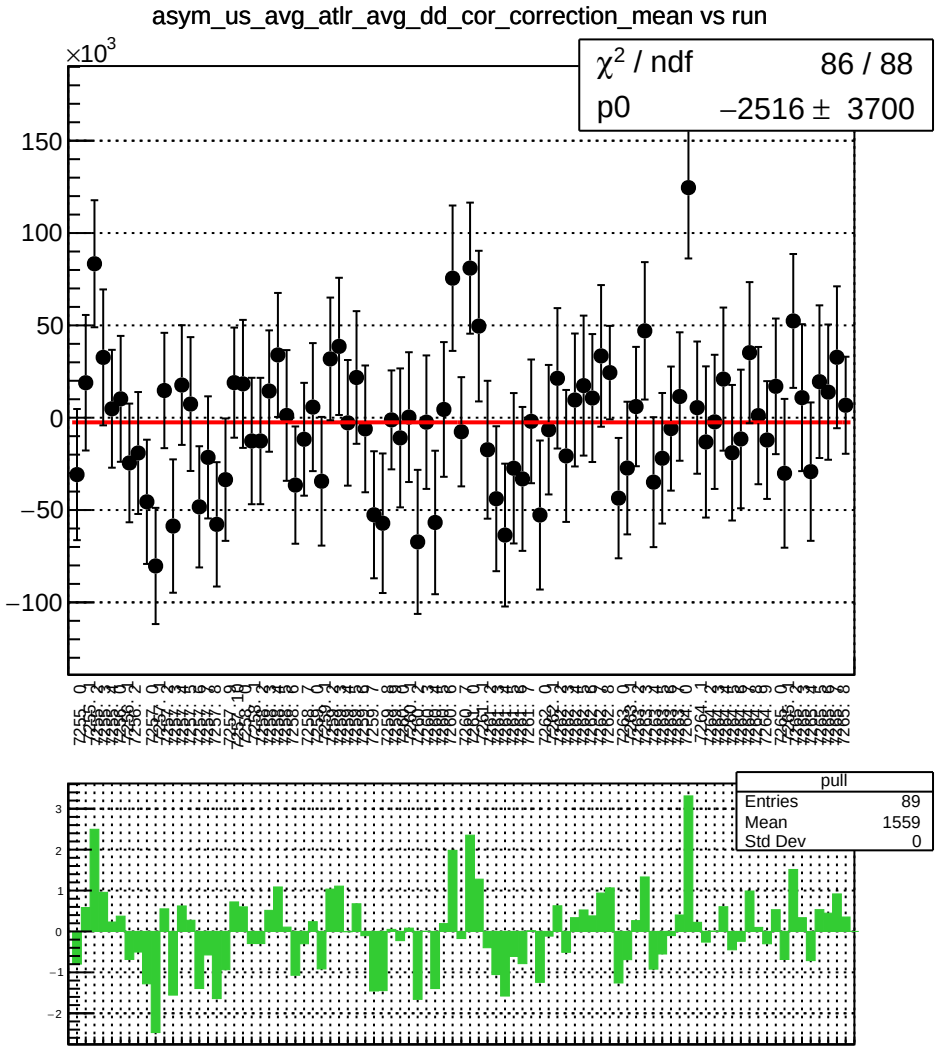

pull1D
Entries 89
Mean 0.002718
Std Dev 0.983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

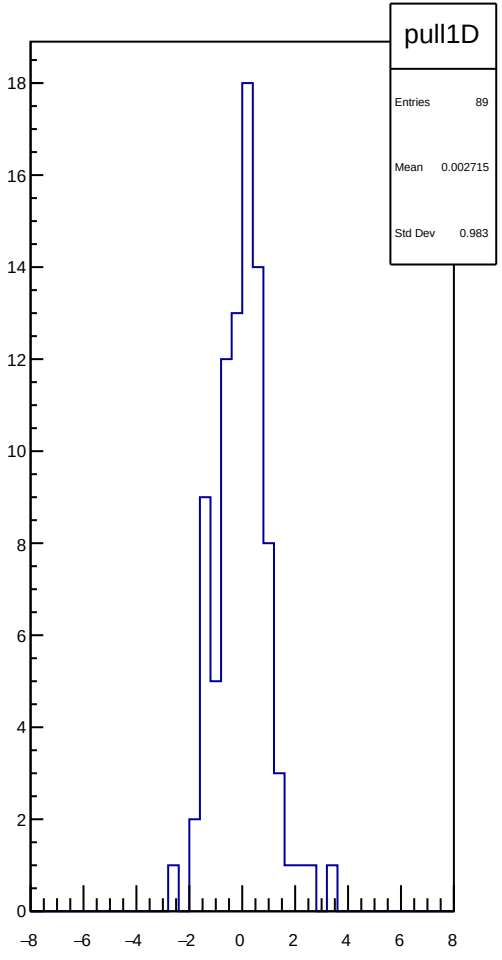

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 7410 / 88
p0 3398 ± 2.616
4000
3800
3600
3400
3200
3000

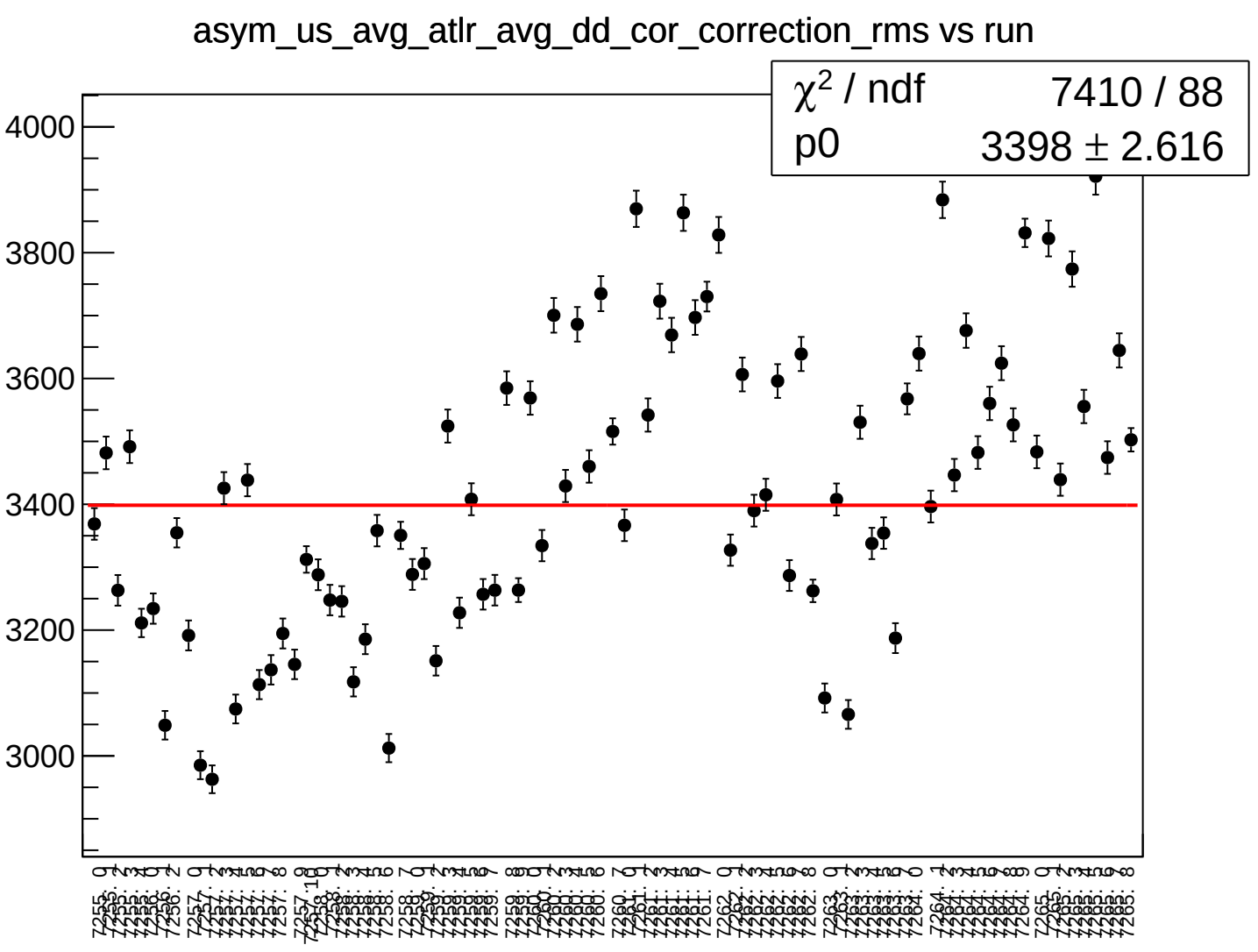

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 76.31 / 88
p0 −680.9 ± 1154
pull
Entries 89
Mean −226.6
Std Dev 0

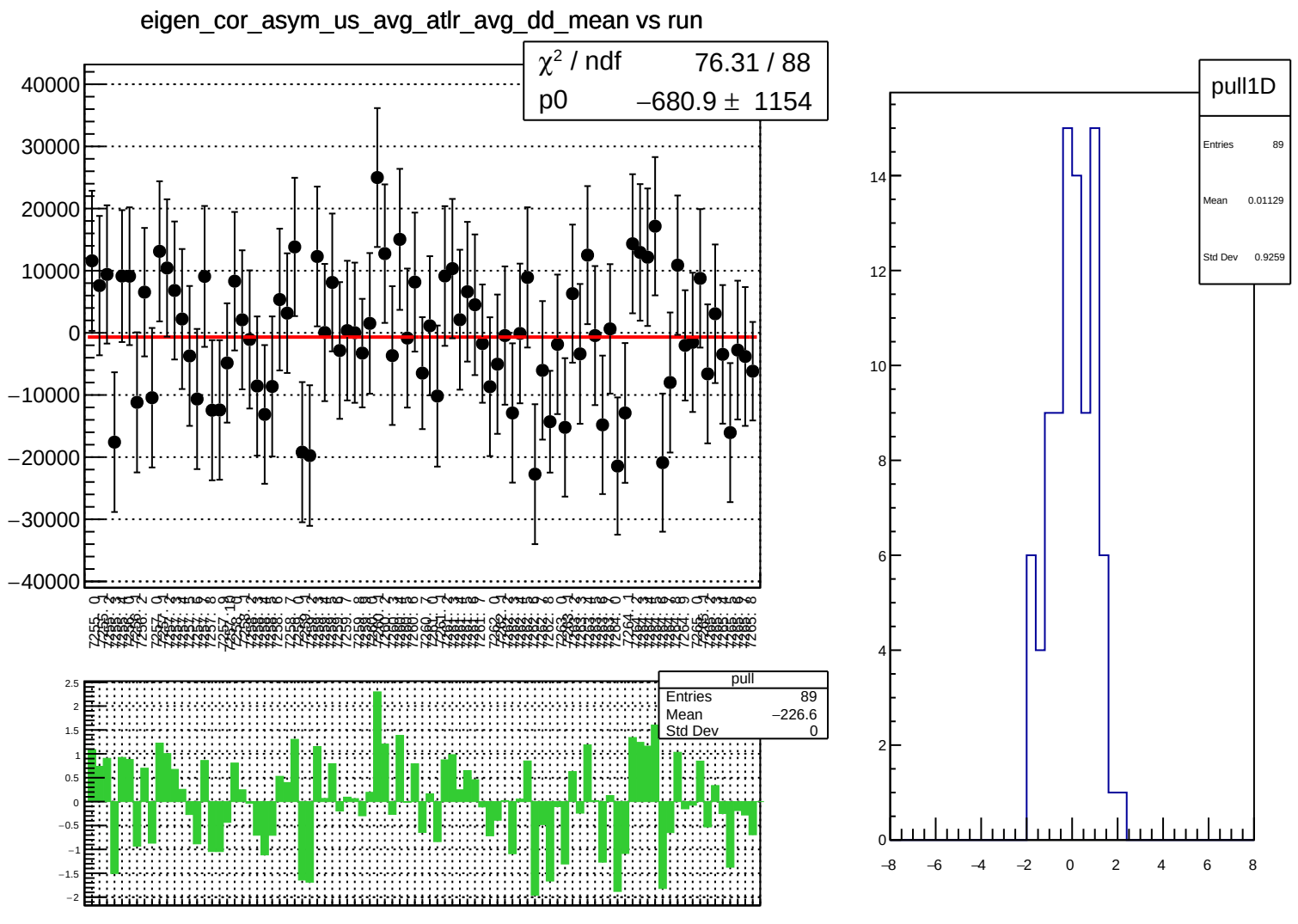

pull1D
Entries 89
Mean 0.01129
Std Dev 0.9259

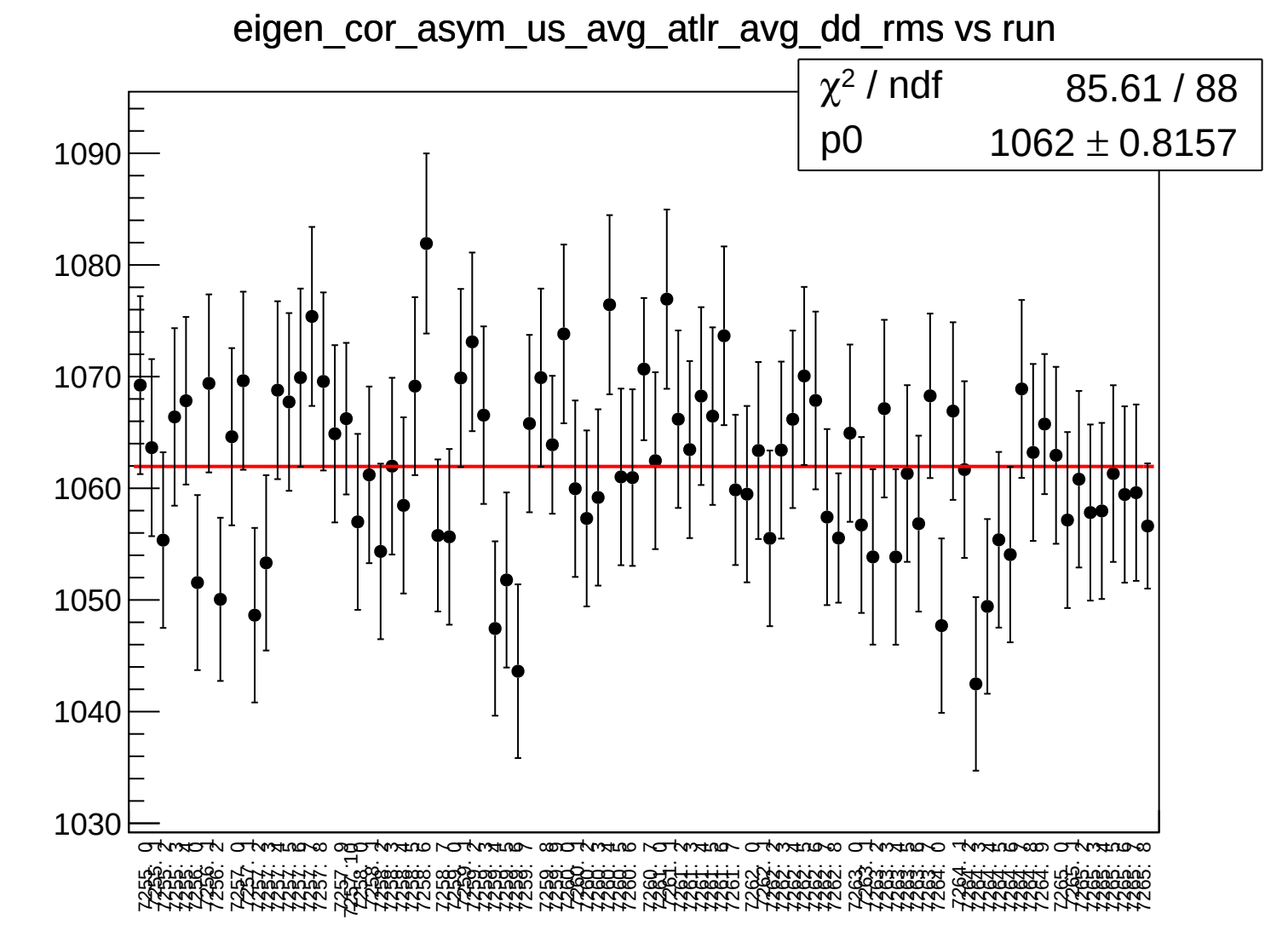

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 85.61 / 88
p0 1062 ± 0.8157
1090
1080
1070
1060
1050
1040
1030

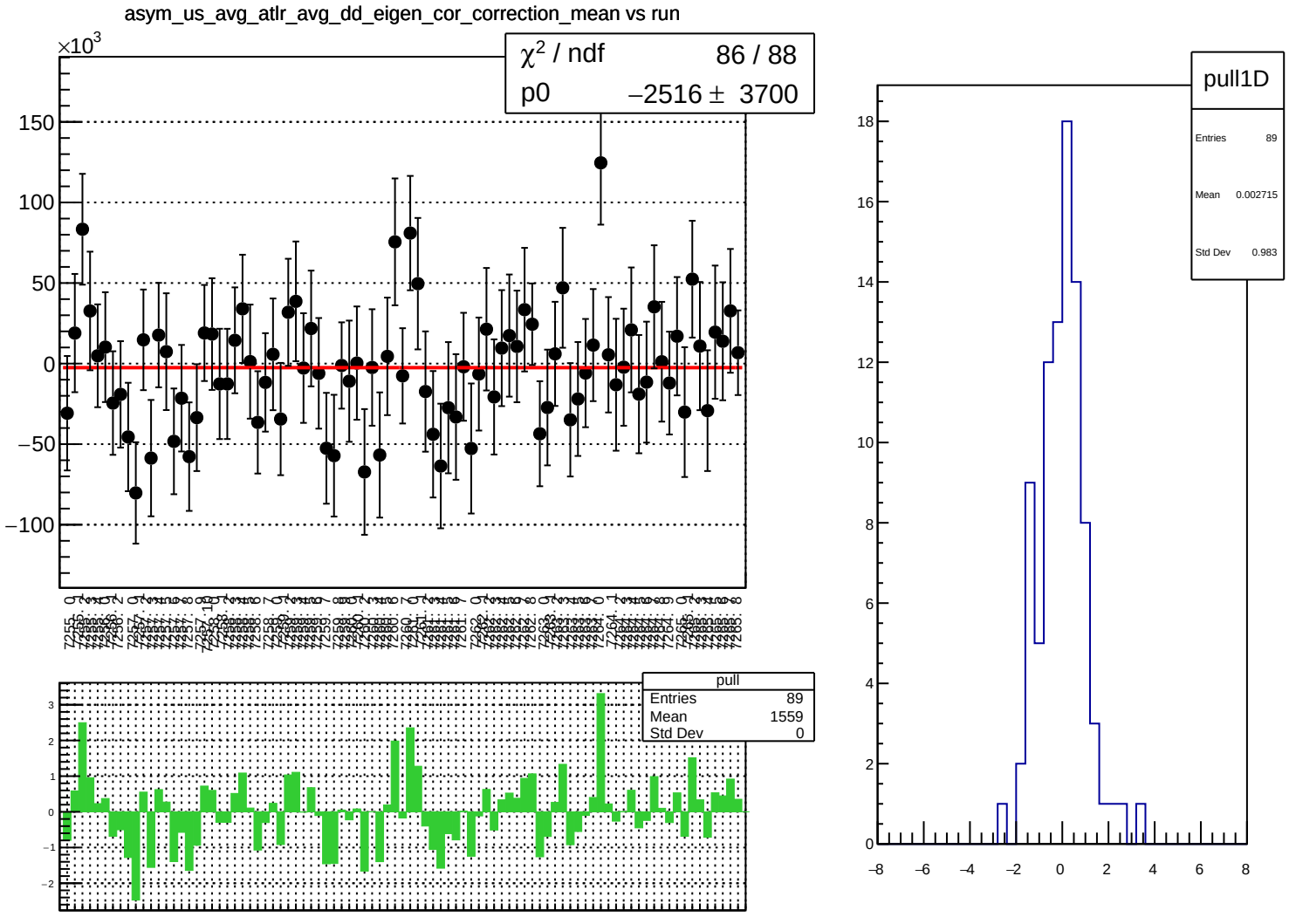

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86 / 88
p0 −2516 ± 3700
150
100
50
0
−50
−100
pull
Entries 89
Mean 1559
Std Dev 0
3
2
1
0
−1
−2

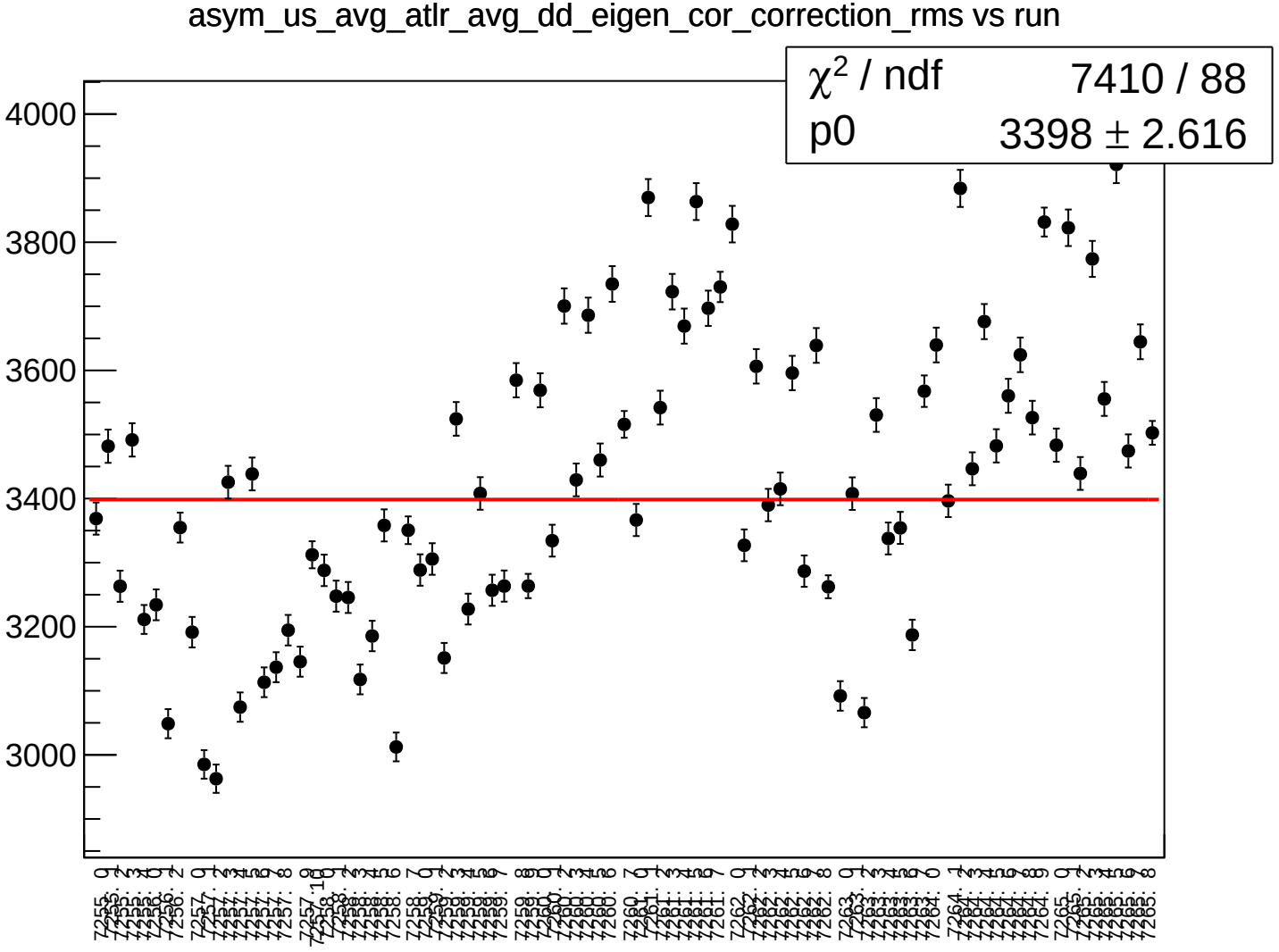

pull1D
Entries 89
Mean 0.002715
Std Dev 0.983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

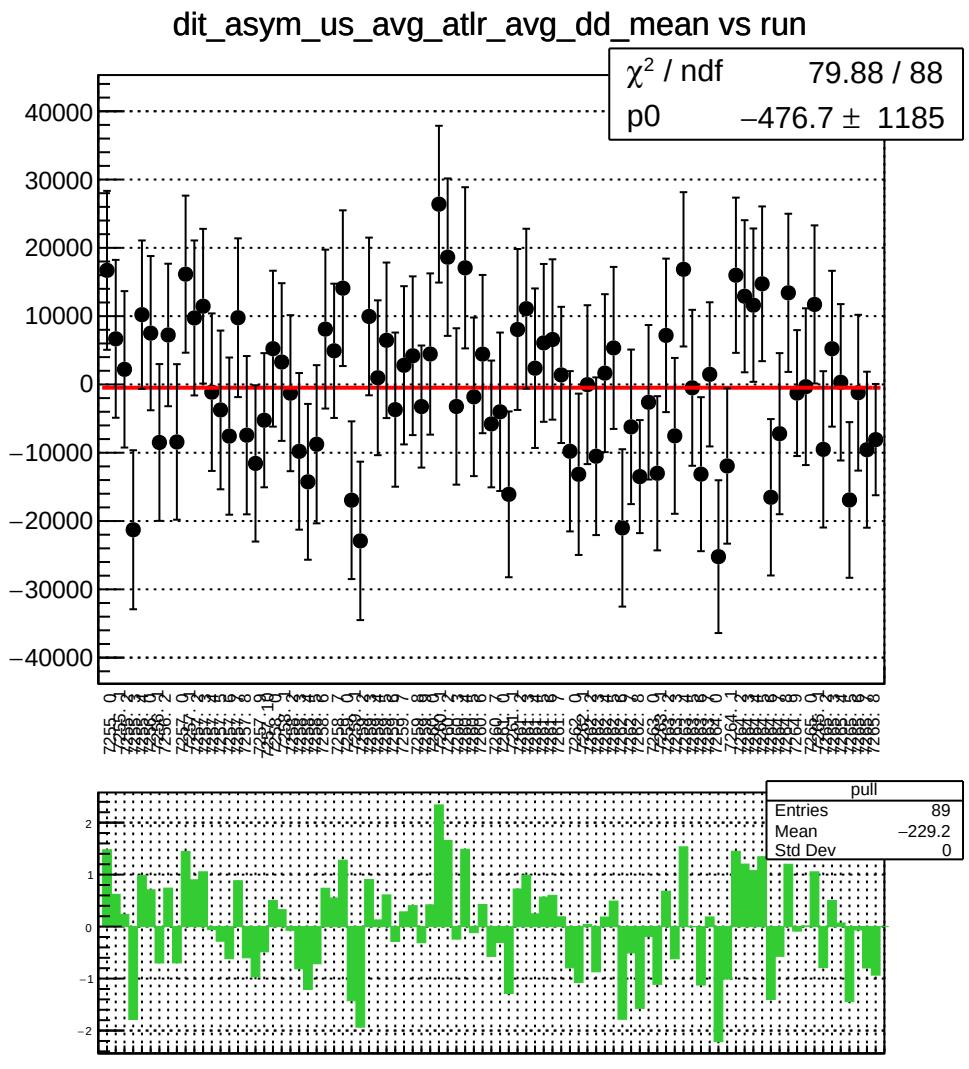

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 7410 / 88
p0 3398 ± 2.616
4000
3800
3600
3400
3200
3000

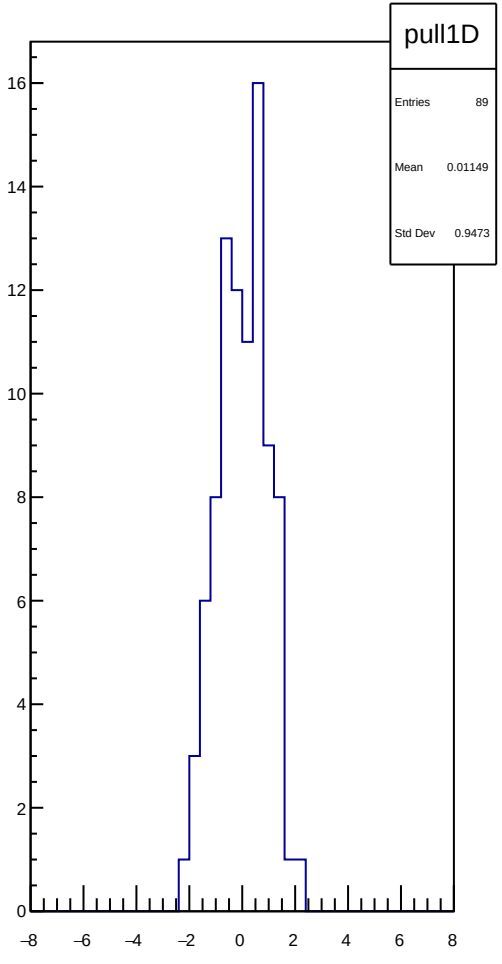

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 76.31 / 88
p0 −680.9 ± 1154
pull
Entries 89
Mean −226.6
Std Dev 0
pull1D
Entries 89
Mean 0.01129
Std Dev 0.9259

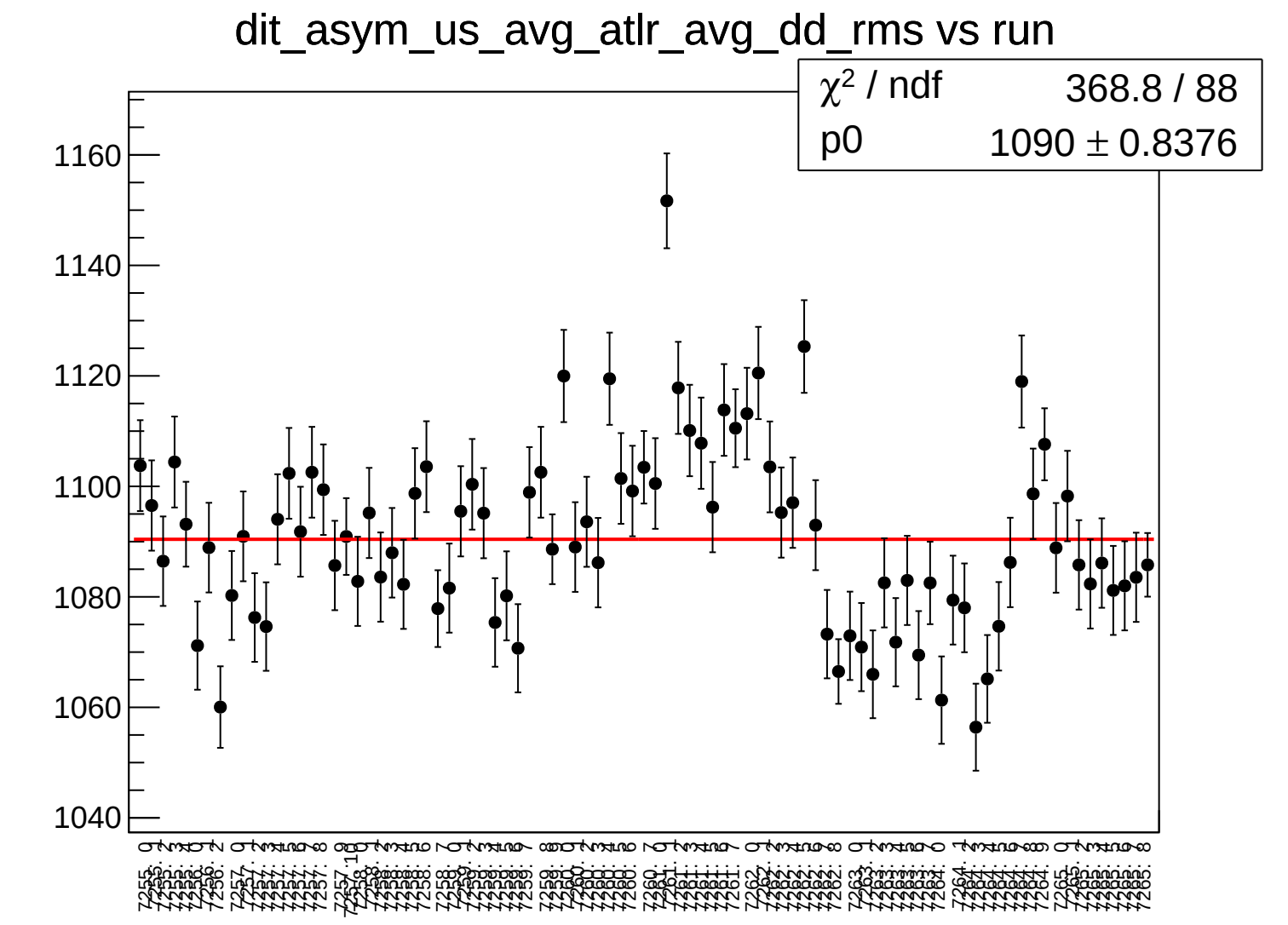

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 85.61 / 88
p0 1062 ± 0.8157
1090
1080
1070
1060
1050
1040
1030

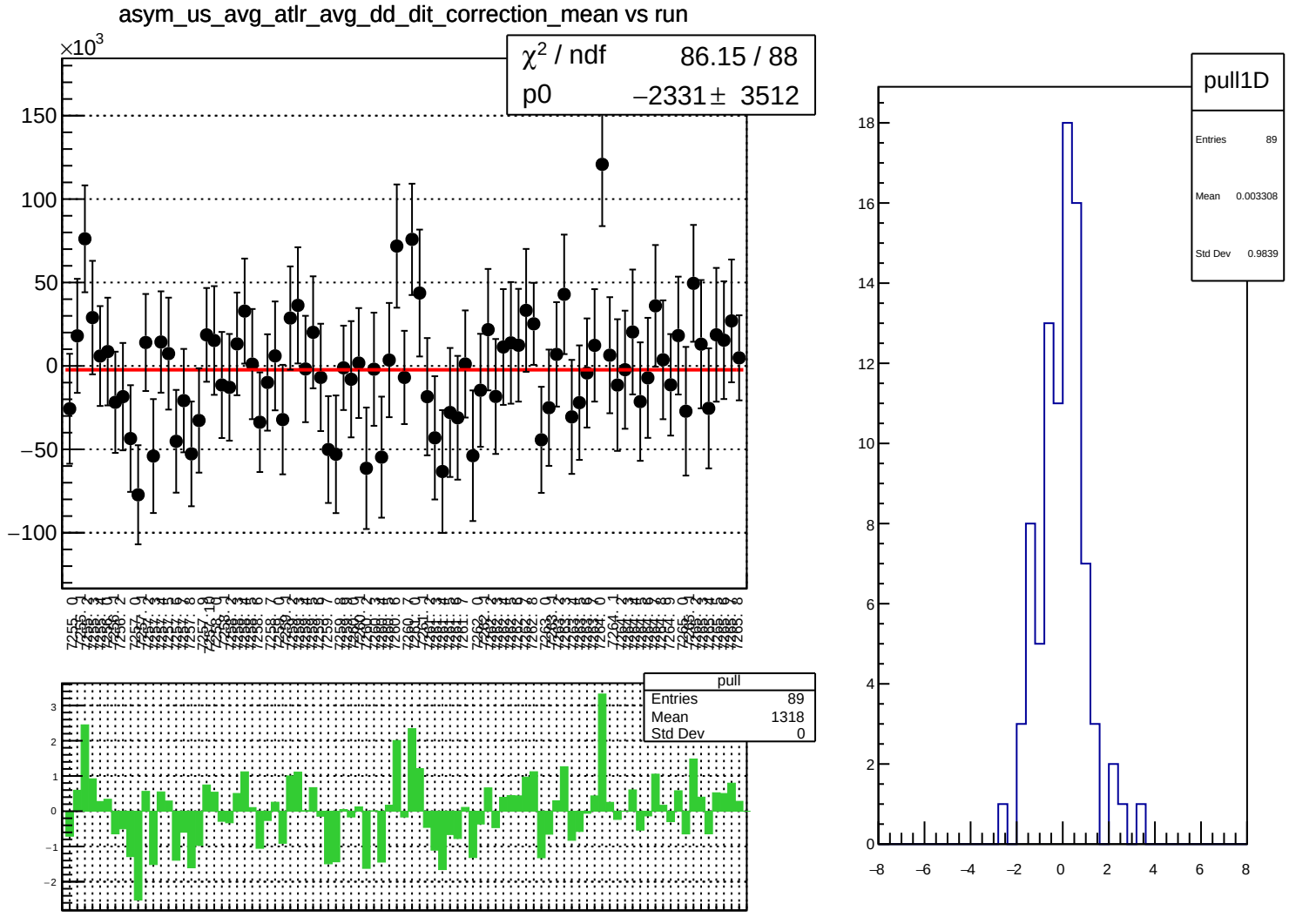

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86 / 88
p0 −2516 ± 3700
150
100
50
0
−50
−100
pull
Entries 89
Mean 1559
Std Dev 0
pull1D
Entries 89
Mean 0.002715
Std Dev 0.983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

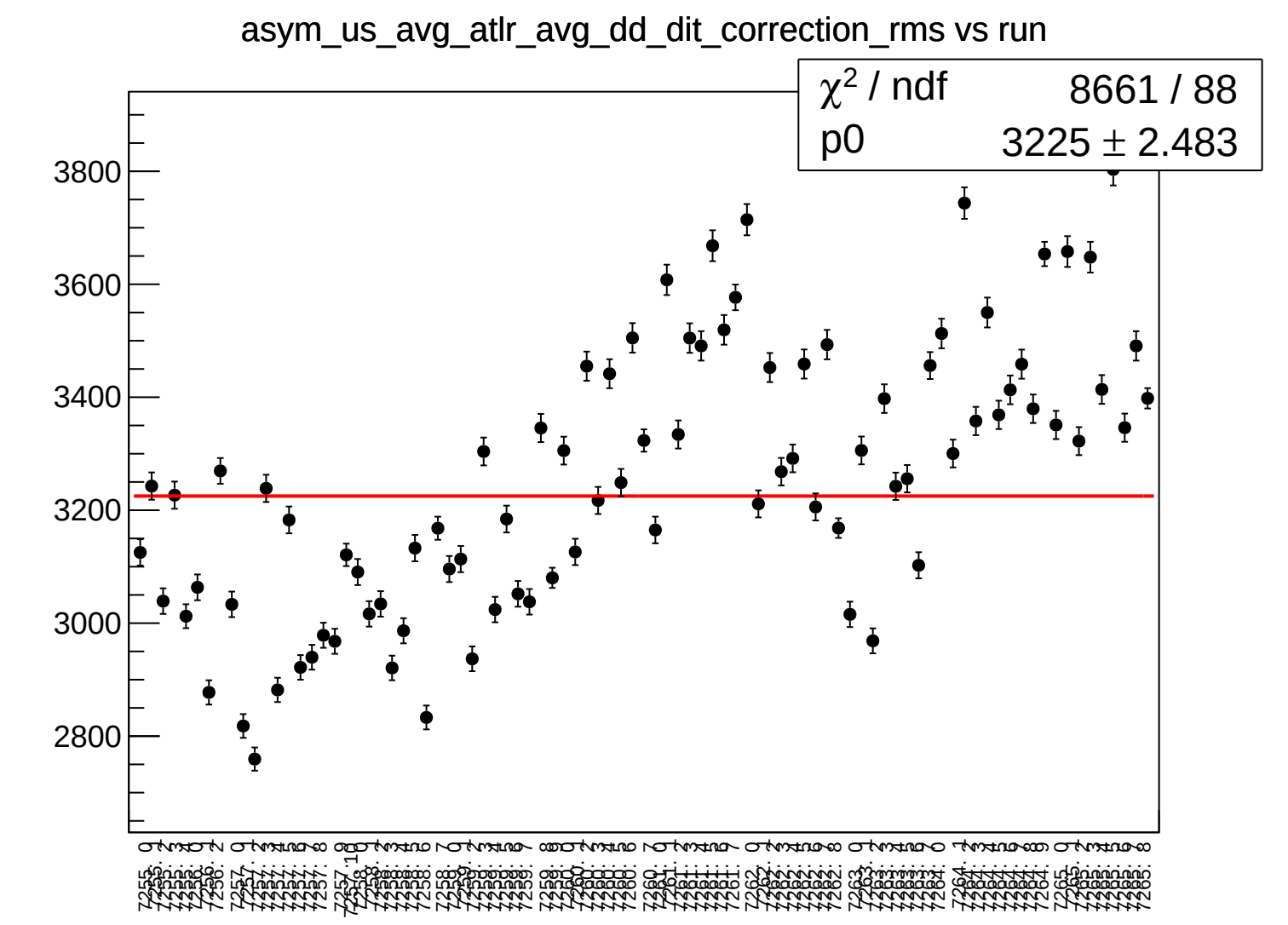

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7410 / 88
p0 3398 ± 2.616
4000
3800
3600
3400
3200
3000

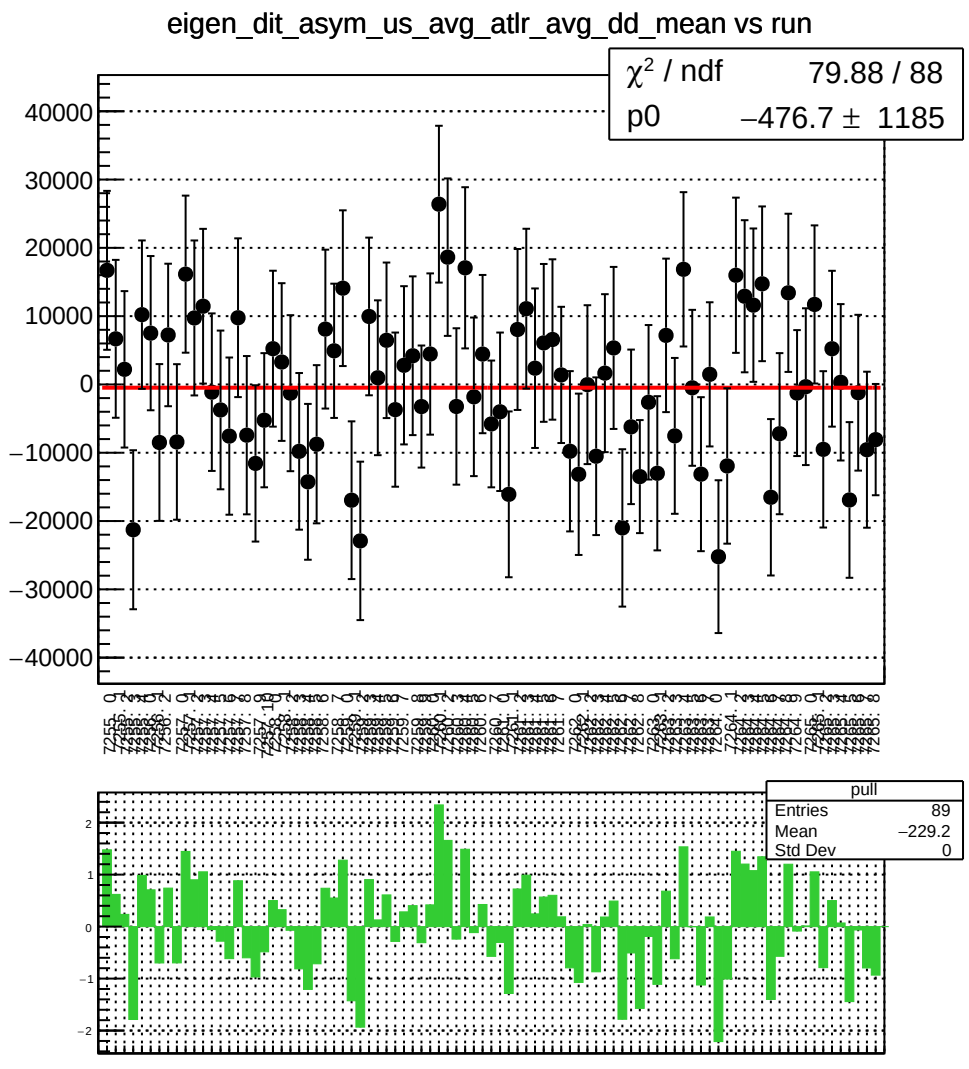

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 79.88 / 88
p0 −476.7 ± 1185
pull
Entries 89
Mean −229.2
Std Dev 0

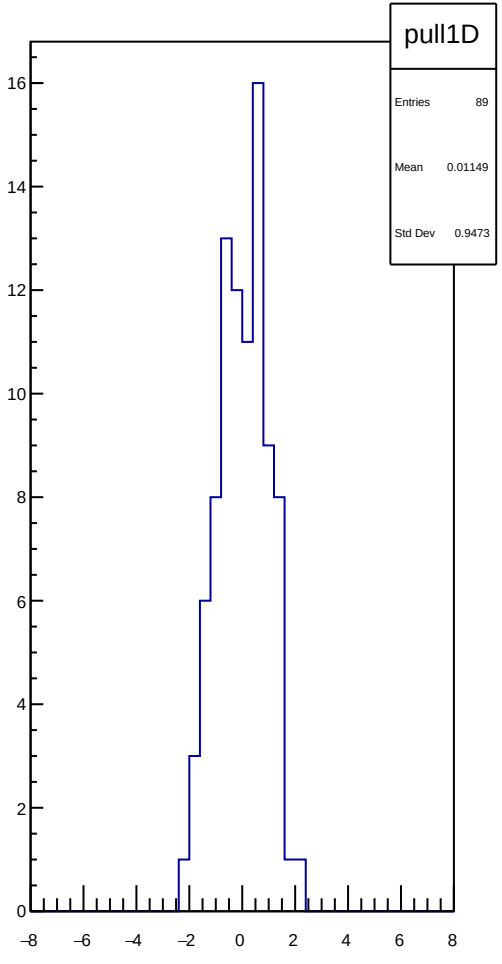

pull1D
Entries 89
Mean 0.01149
Std Dev 0.9473

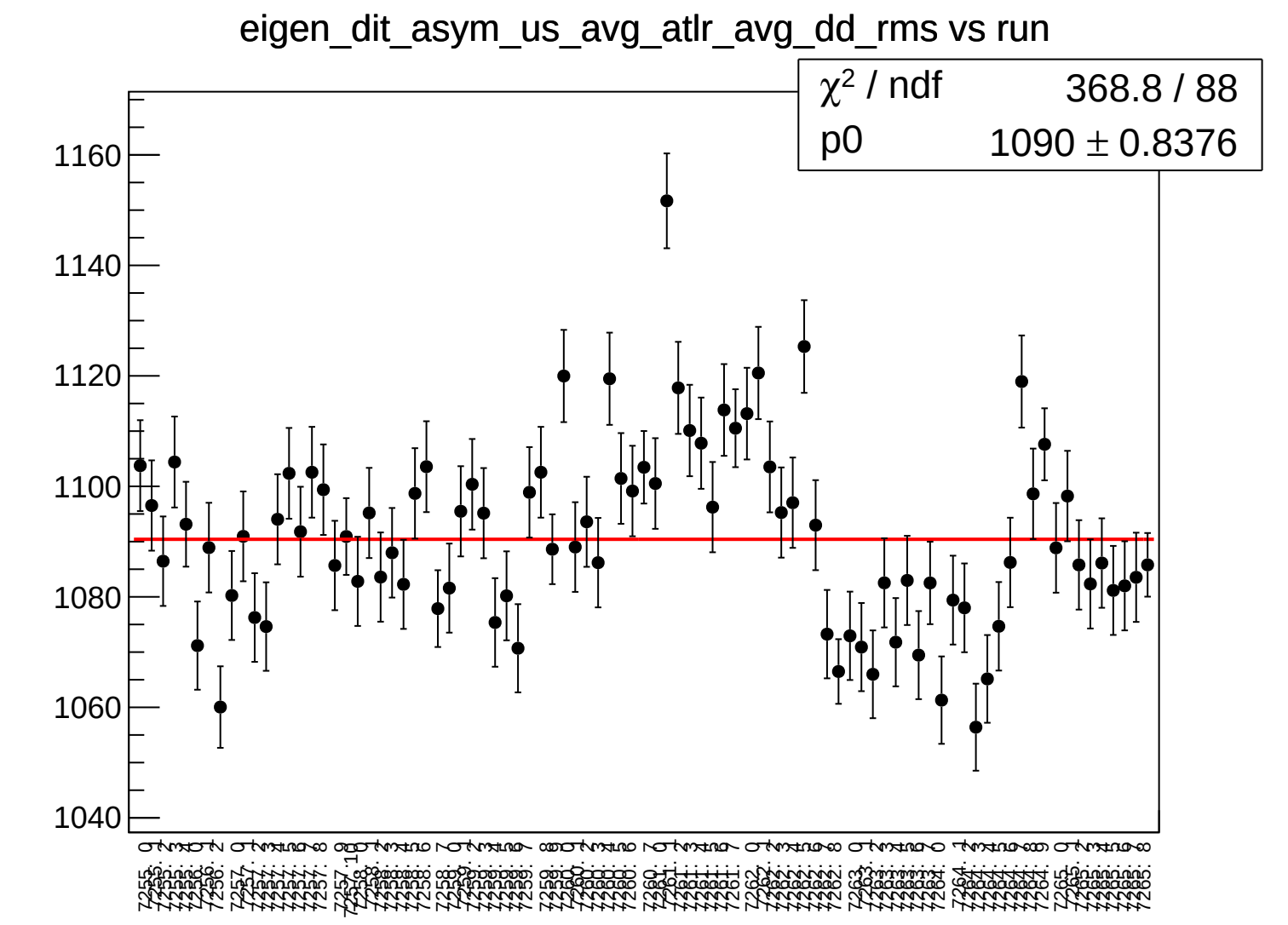

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 368.8 / 88
p0 1090 ± 0.8376
1160
1140
1120
1100
1080
1060
1040

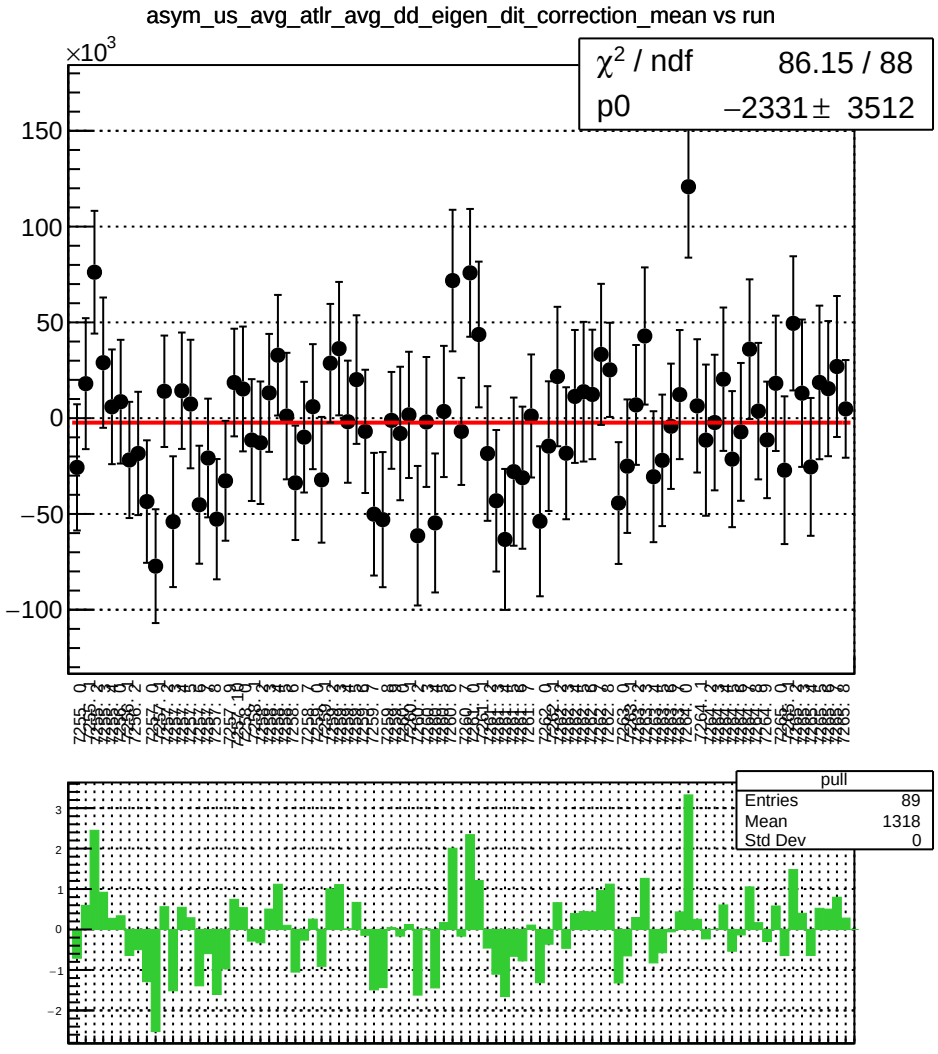

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.15 / 88
p0 −2331 ± 3512
150
100
50
0
−50
−100
pull
Entries 89
Mean 1318
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.003308
Std Dev 0.9839
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

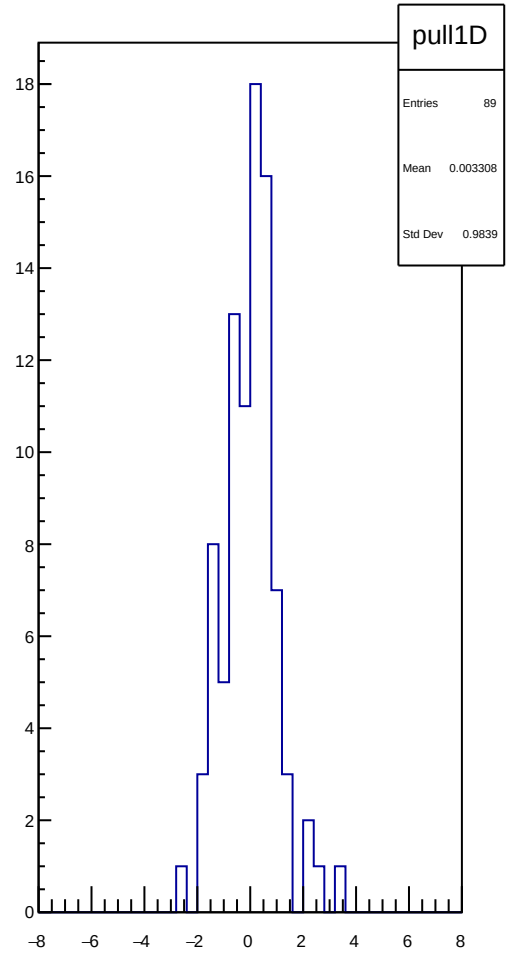

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 8661 / 88
p0 3225 ± 2.483
3800
3600
3400
3200
3000
2800

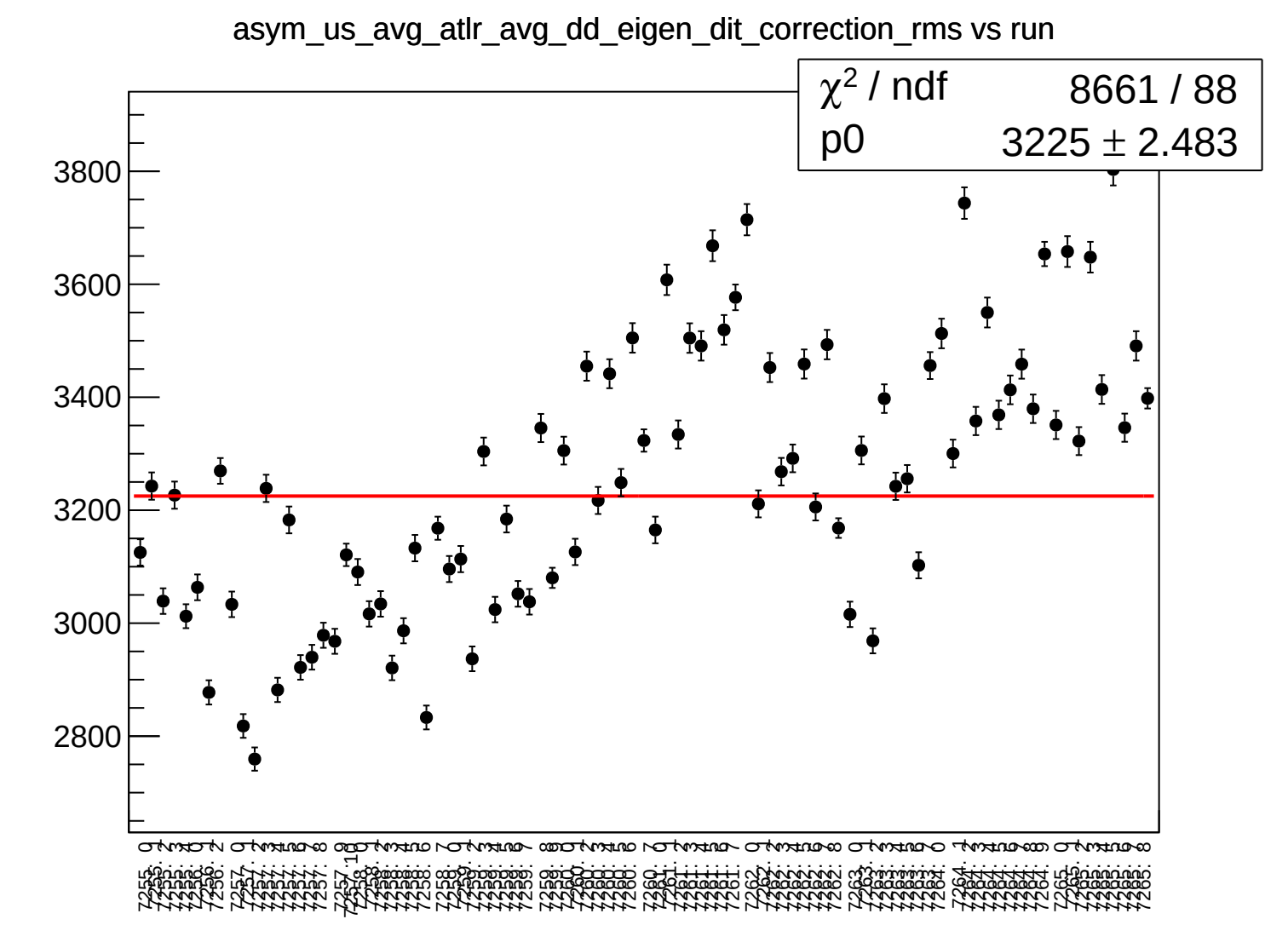

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 79.88 / 88
p0 −476.7 ± 1185
pull
Entries 89
Mean −229.2
Std Dev 0

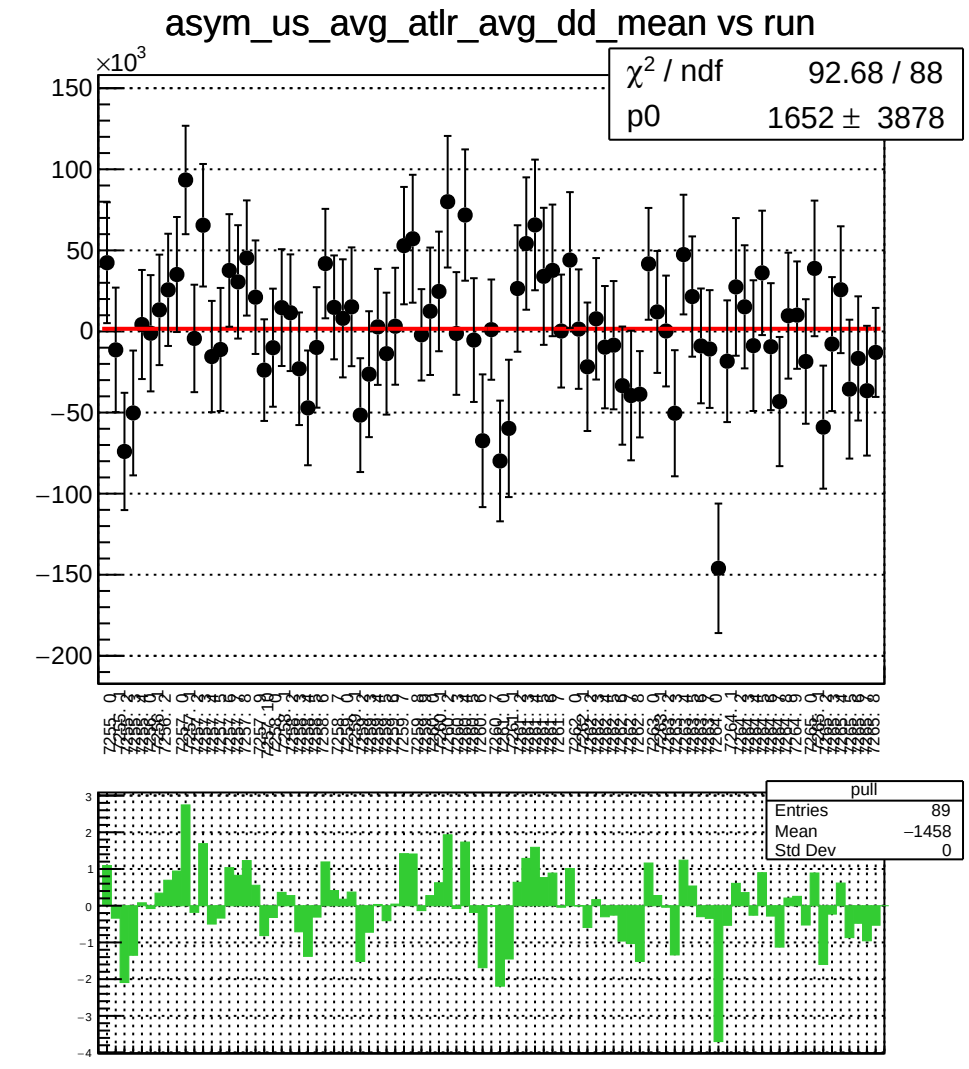

pull1D
Entries 89
Mean 0.01149
Std Dev 0.9473

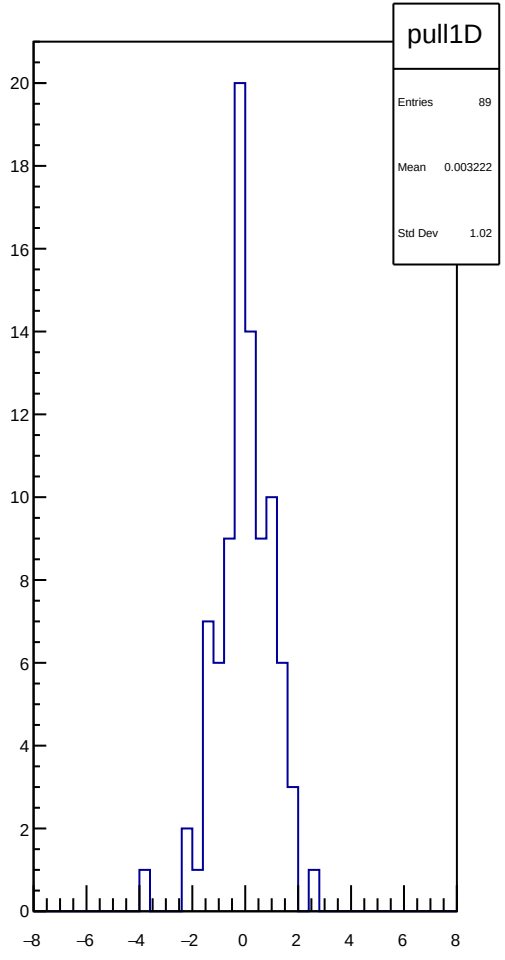

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 368.8 / 88
p0 1090 ± 0.8376
1160
1140
1120
1100
1080
1060
1040

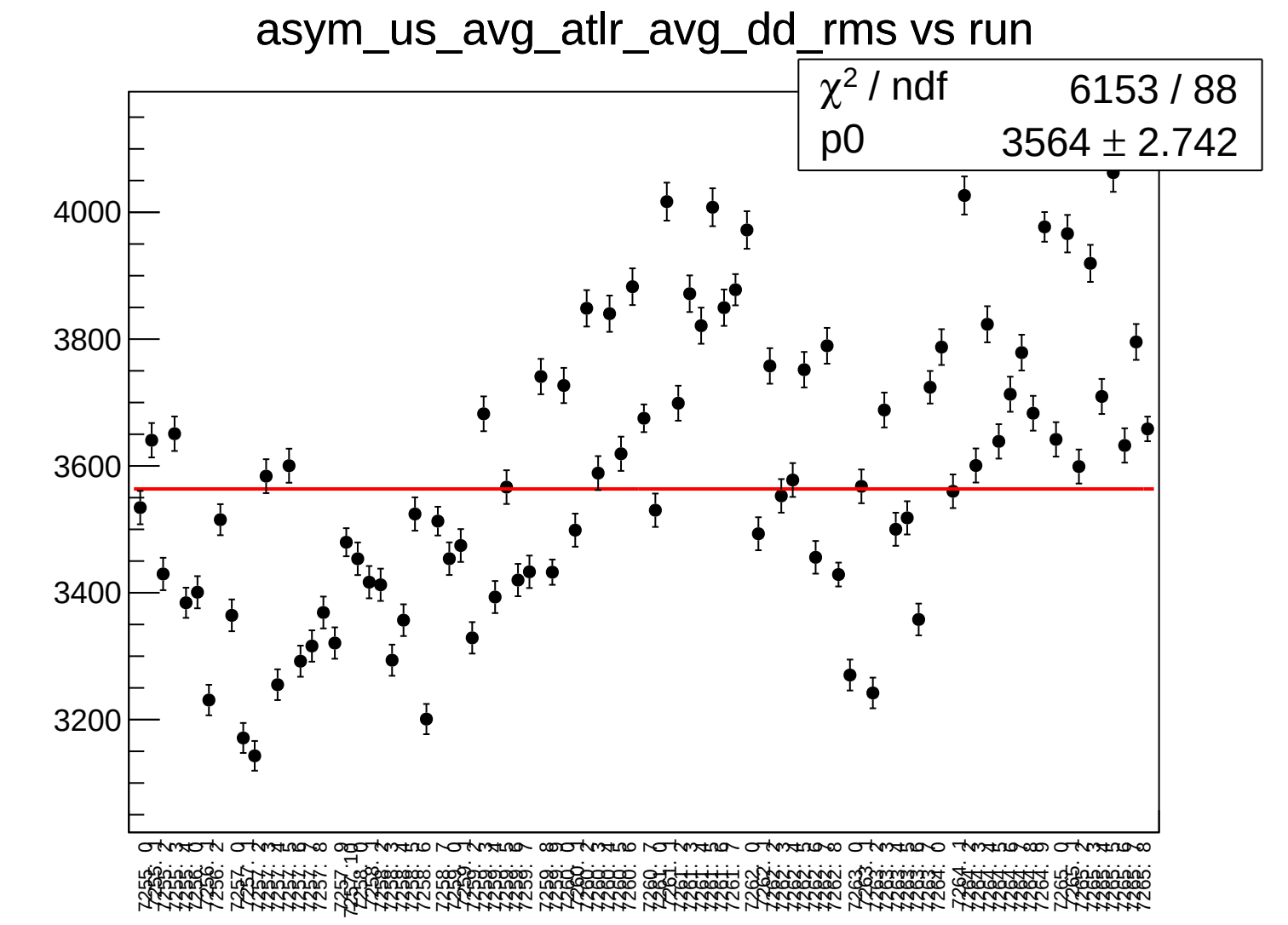

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.15 / 88
p0 −2331 ± 3512
150
100
50
0
−50
−100
pull
Entries 89
Mean 1318
Std Dev 0
3
2
1
0
−1
−2

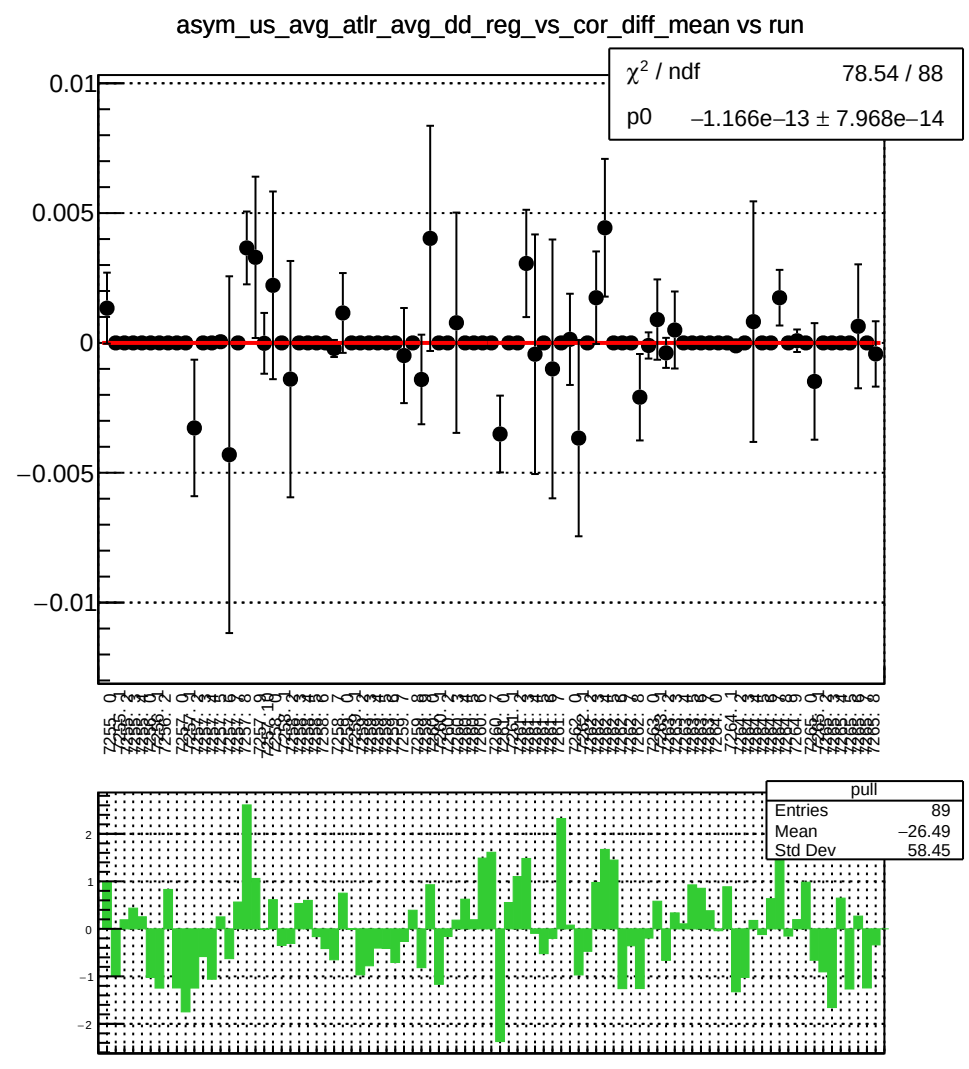

pull1D
Entries 89
Mean 0.003308
Std Dev 0.9839
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

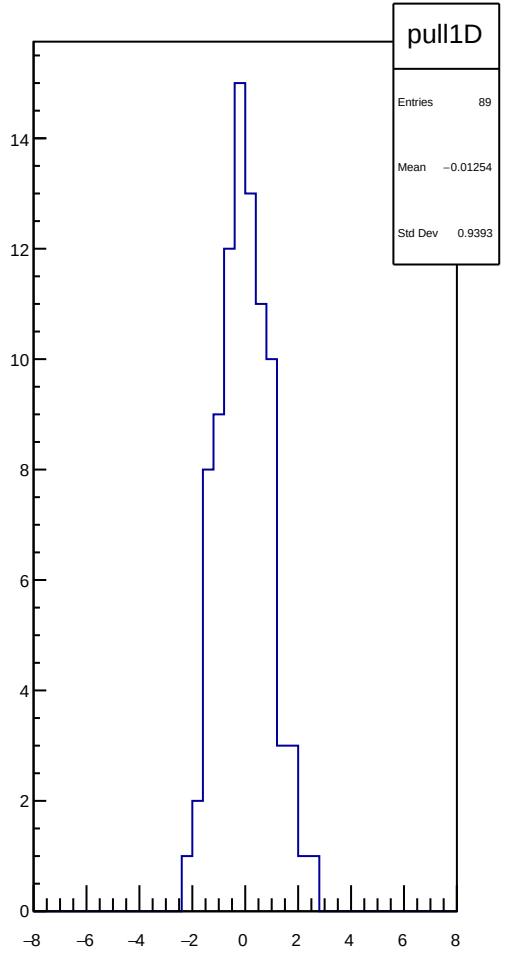

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 8661 / 88
p0 3225 ± 2.483
3800
3600
3400
3200
3000
2800

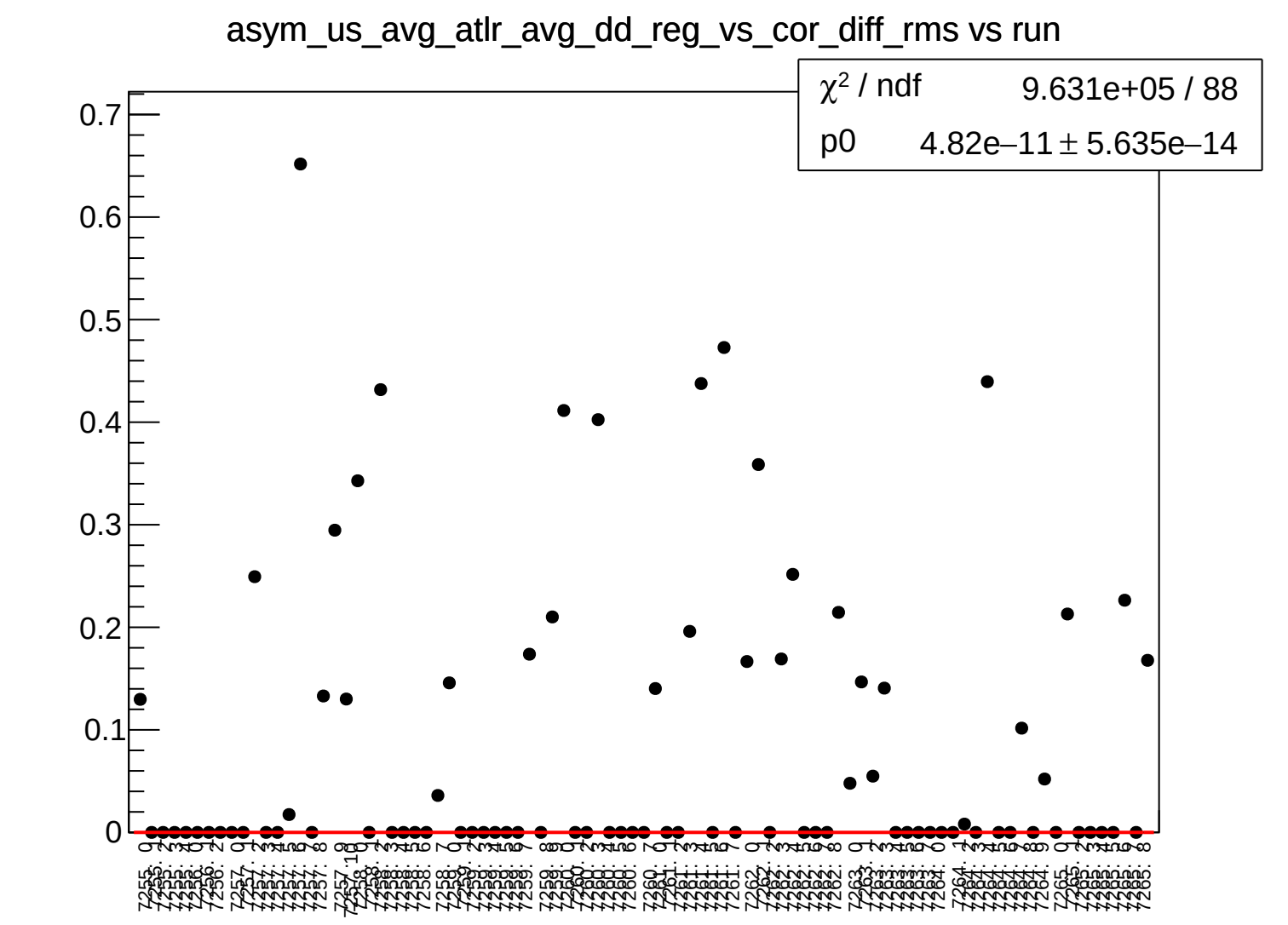

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 92.68 / 88
p0 1652 ± 3878
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −1458
Std Dev 0
3
2
1
0
−1
−2
−3
−4

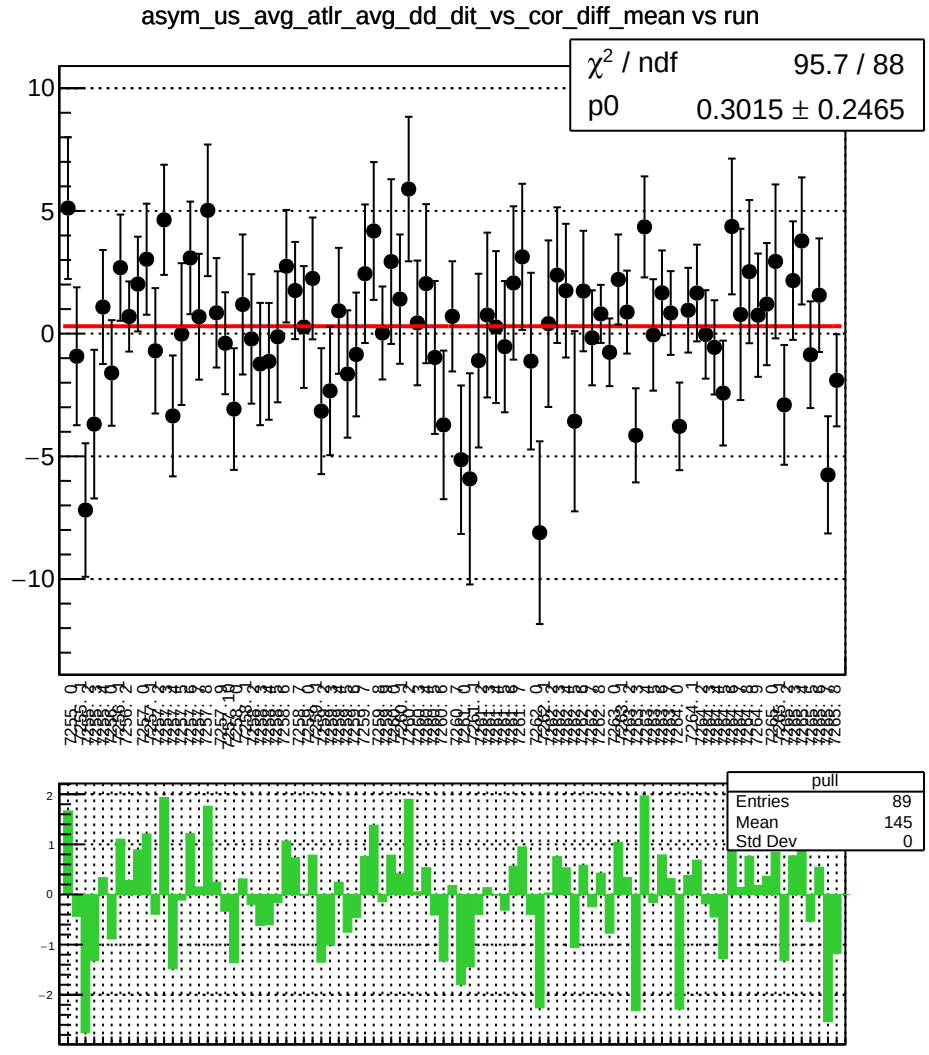

pull1D
Entries 89
Mean 0.003222
Std Dev 1.02
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

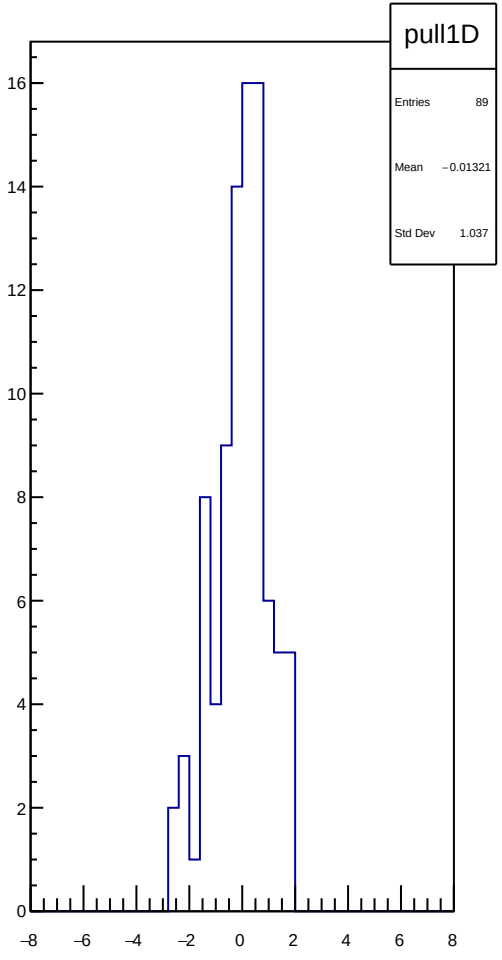

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 6153 / 88
p0 3564 ± 2.742
4000
3800
3600
3400
3200

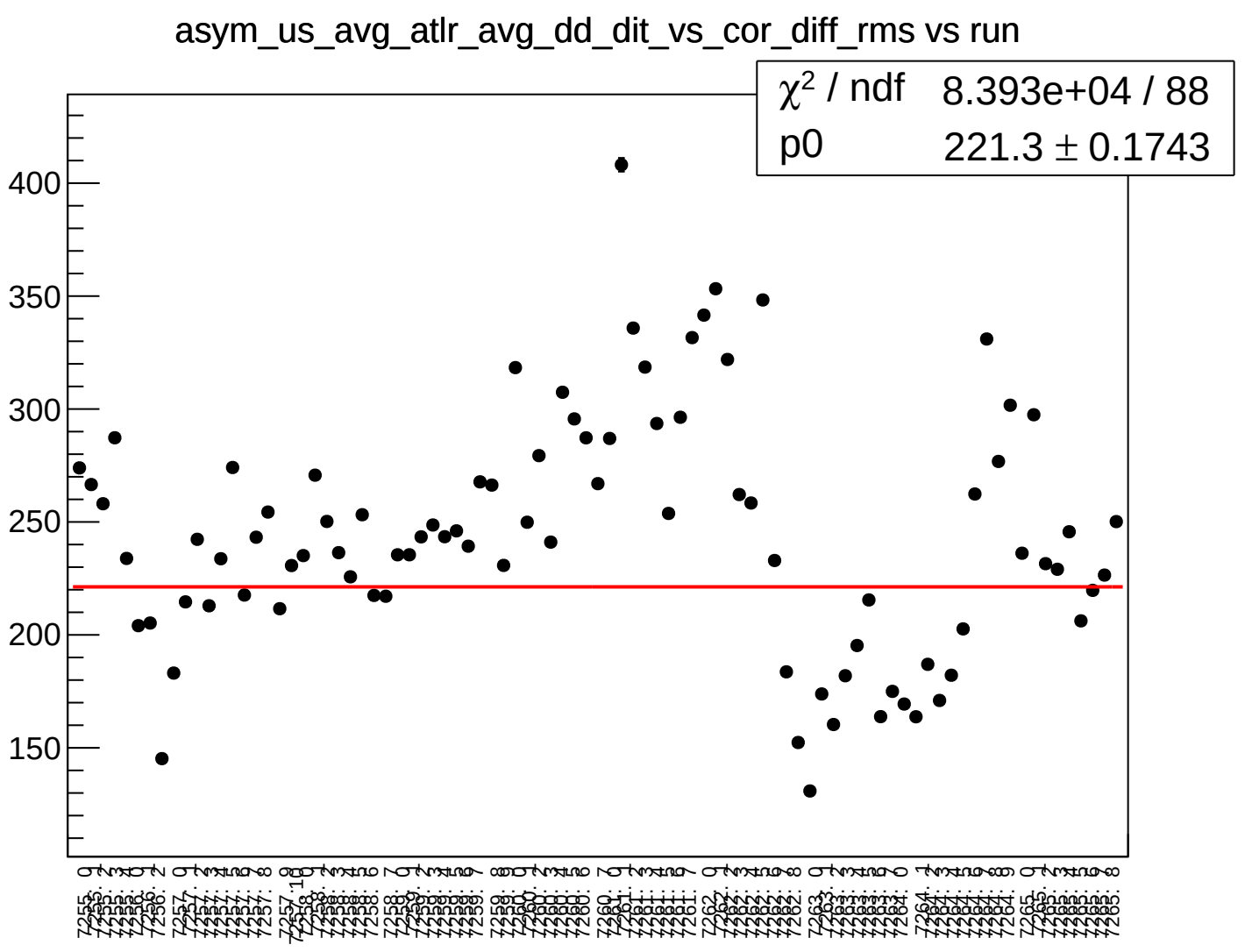

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.54 / 88
p0 −1.166e−13 ± 7.968e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean −26.49
Std Dev 58.45
2
1
0
−1
−2

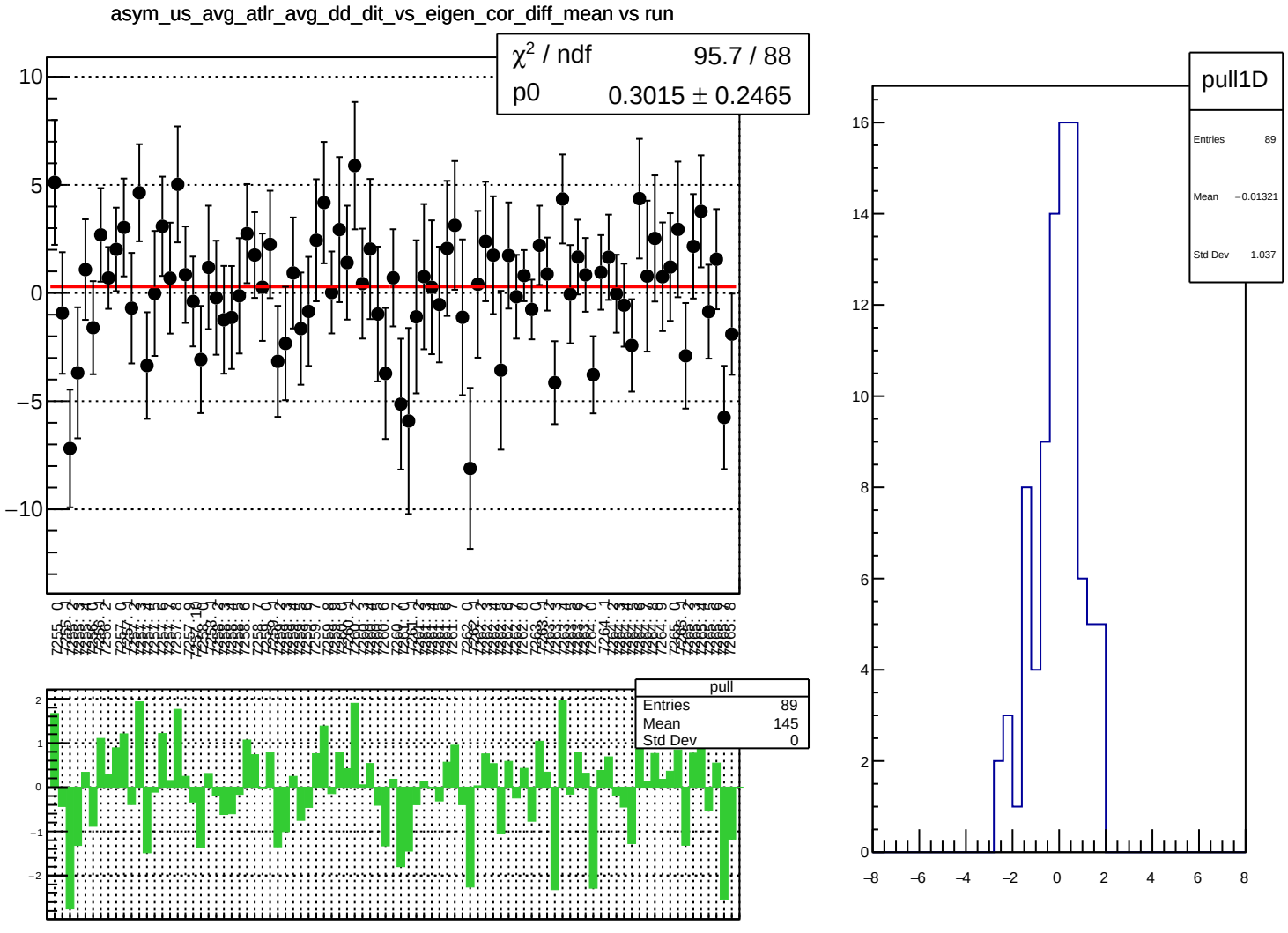

pull1D
Entries 89
Mean −0.01254
Std Dev 0.9393
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

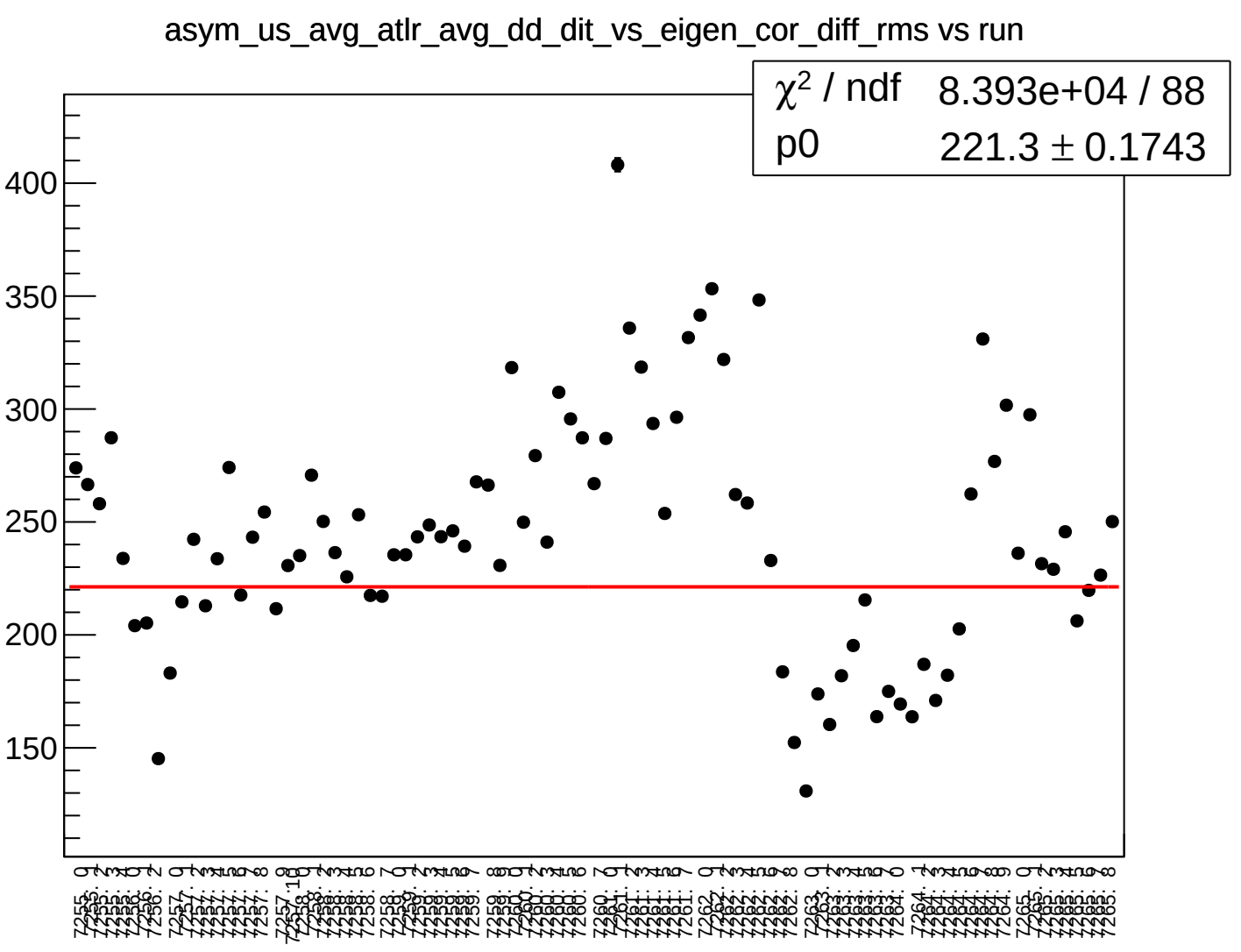

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.631e+05 / 88
p0 4.82e−11 ± 5.635e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

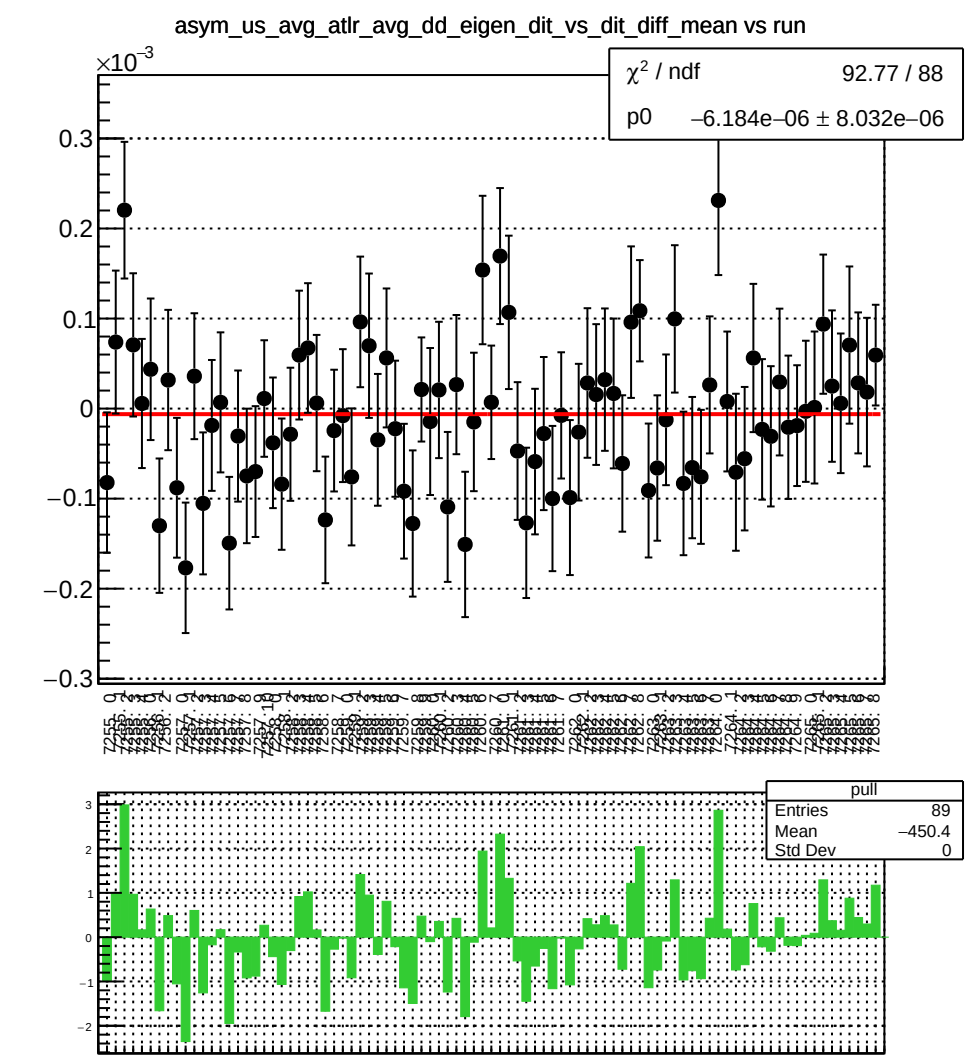

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.7 / 88
p0 0.3015 ± 0.2465
pull
Entries 89
Mean 145
Std Dev 0

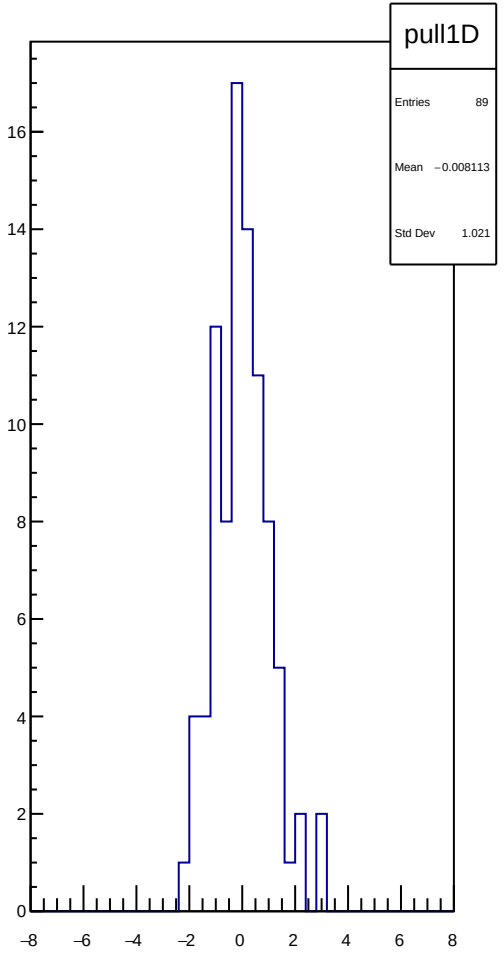

pull1D
Entries 89
Mean −0.01321
Std Dev 1.037

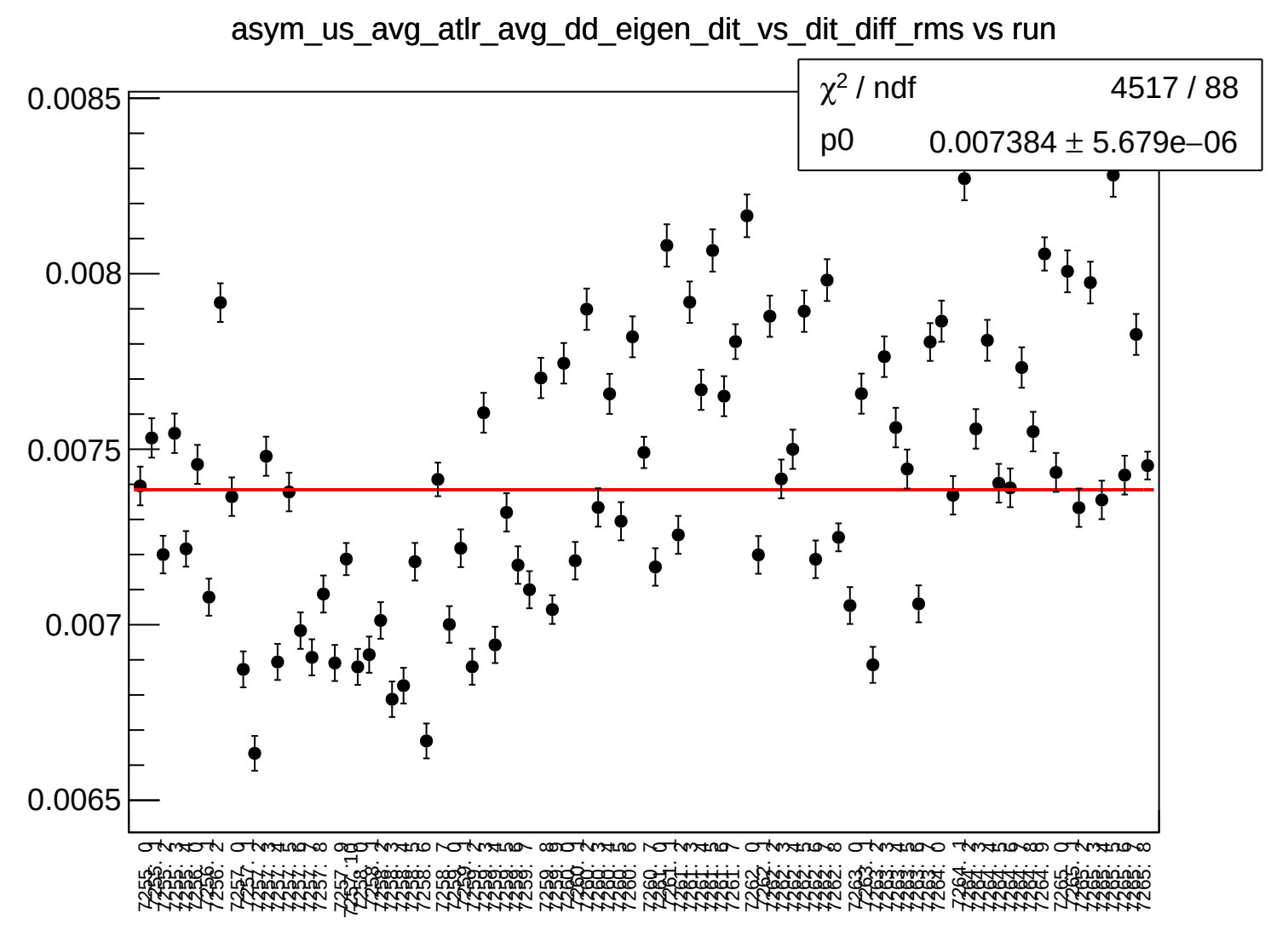

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.393e+04 / 88
p0 221.3 ± 0.1743
400
350
300
250
200
150

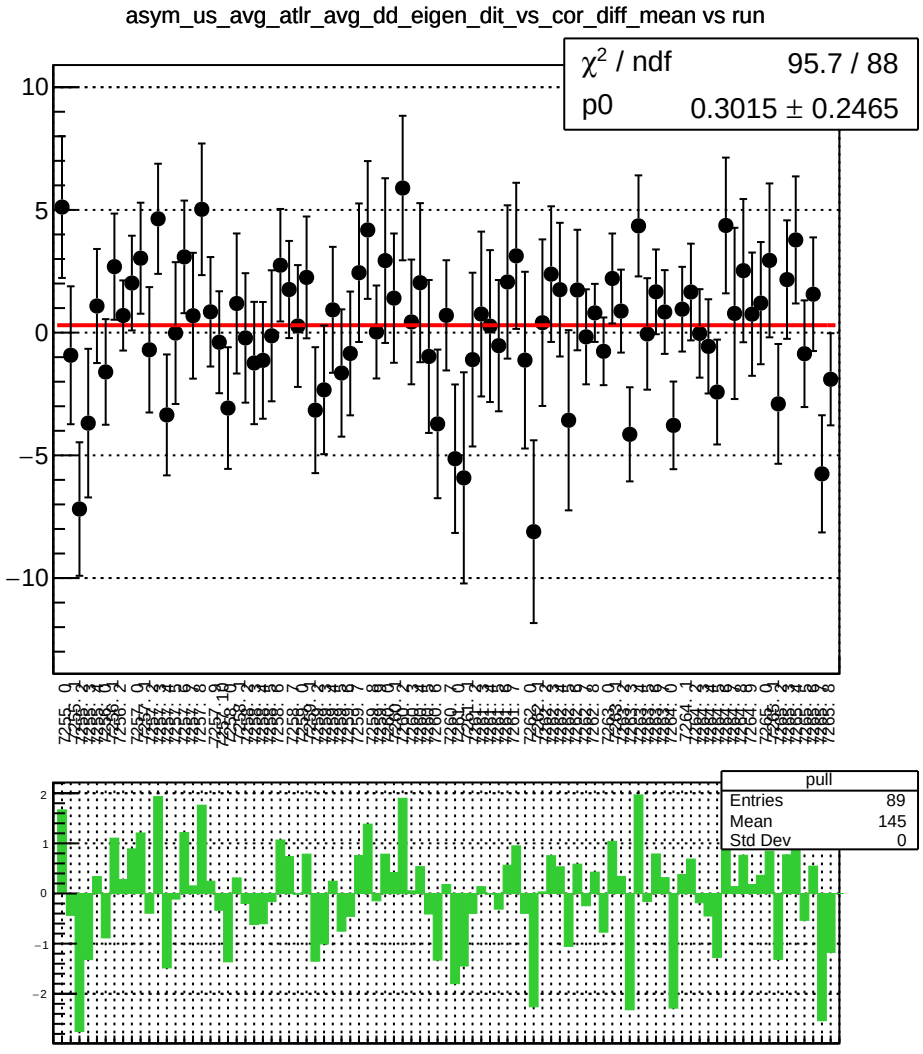

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.7 / 88
p0 0.3015 ± 0.2465
pull
Entries 89
Mean 145
Std Dev 0
pull1D
Entries 89
Mean −0.01321
Std Dev 1.037

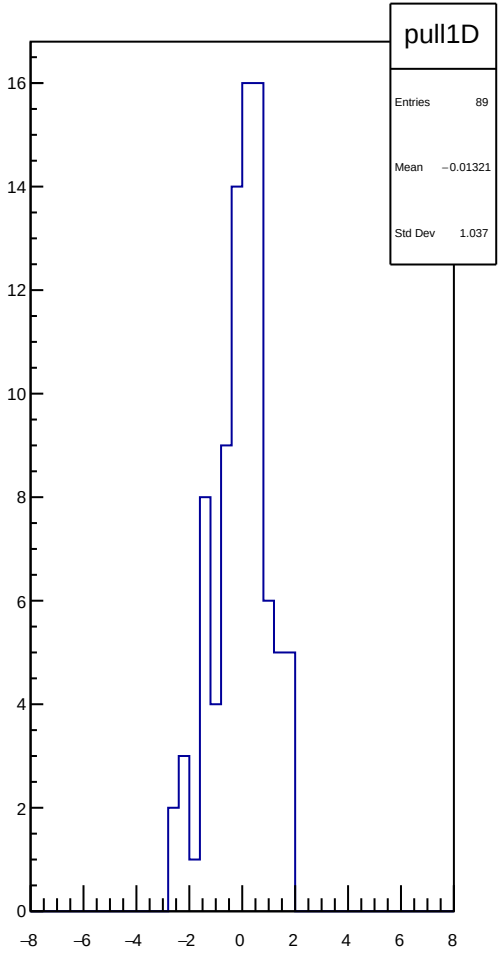

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.393e+04 / 88
p0 221.3 ± 0.1743
400
350
300
250
200
150

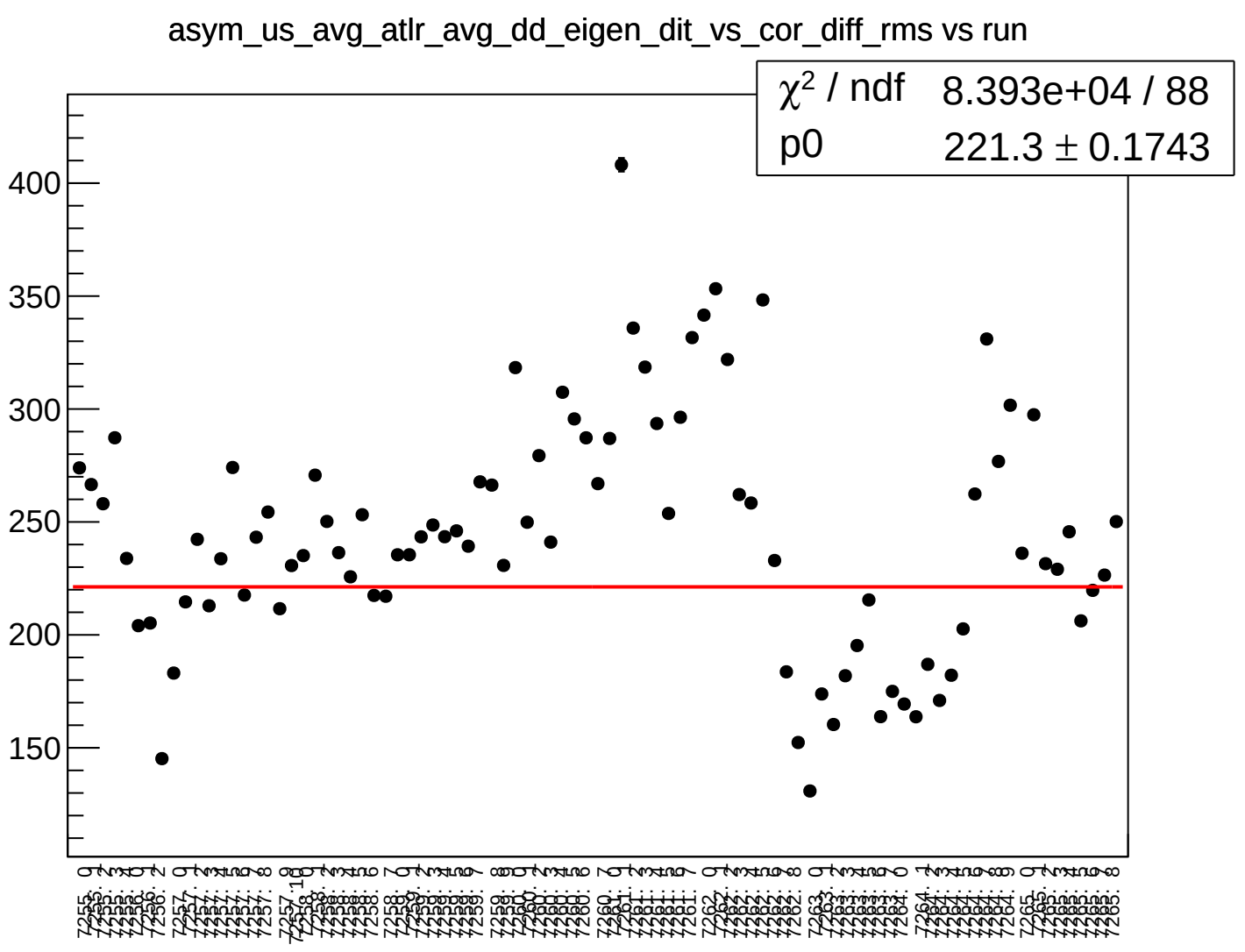

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.77 / 88
p0 −6.184e−06 ± 8.032e−06
pull
Entries 89
Mean −450.4
Std Dev 0

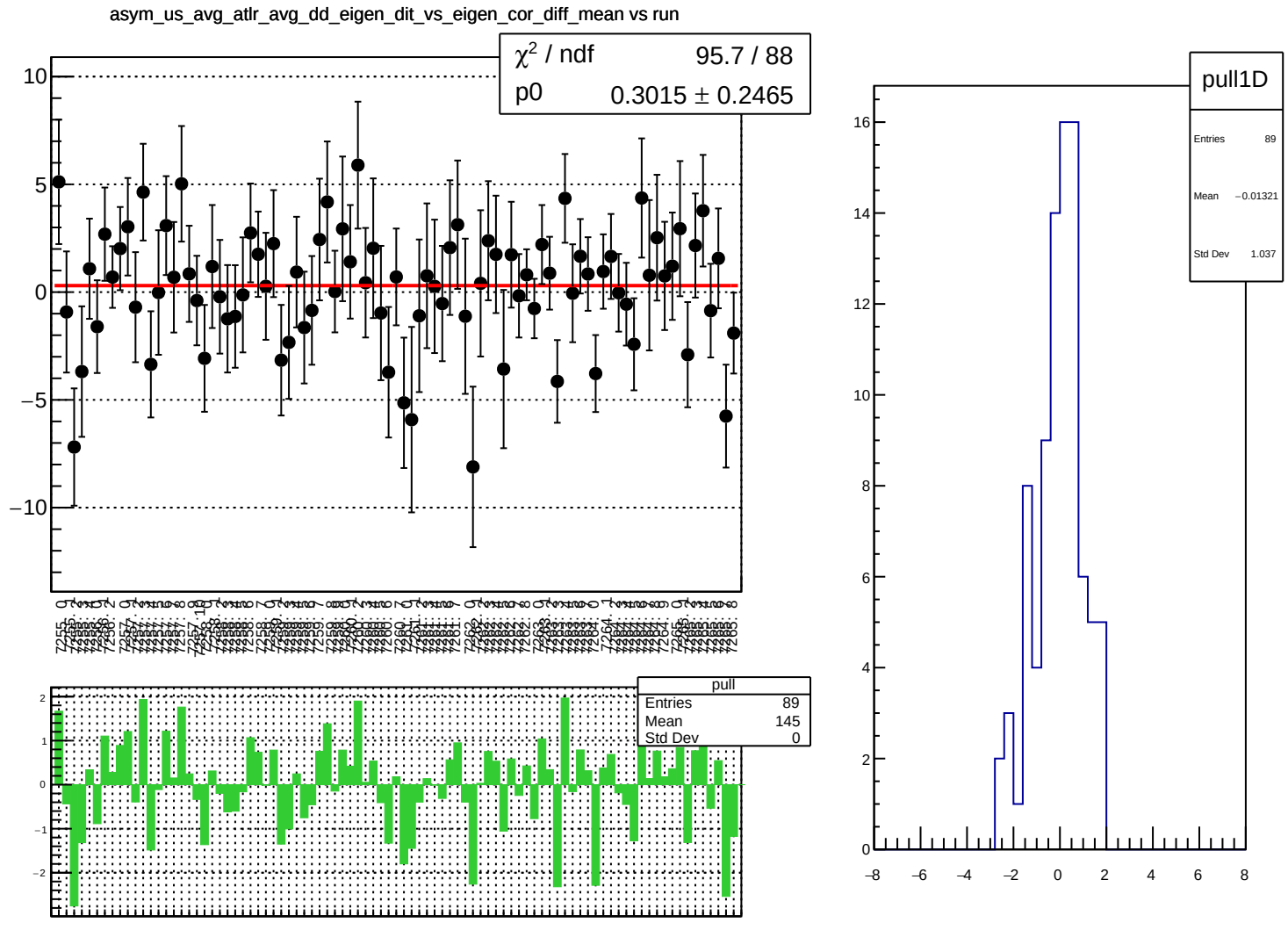

pull1D
Entries 89
Mean −0.008113
Std Dev 1.021

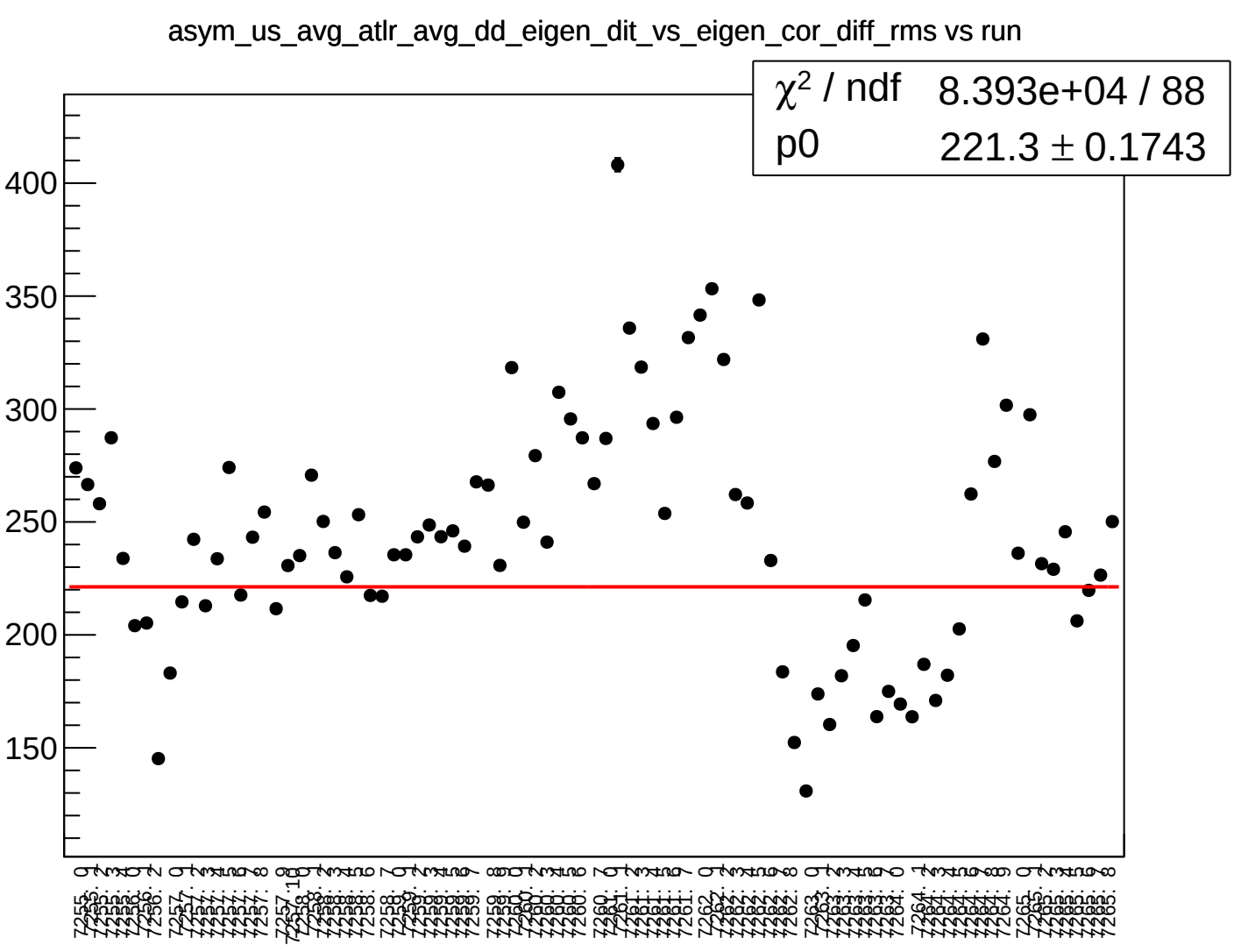

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4517 / 88
p0 0.007384 ± 5.679e−06
0.0085
0.008
0.0075
0.007
0.0065

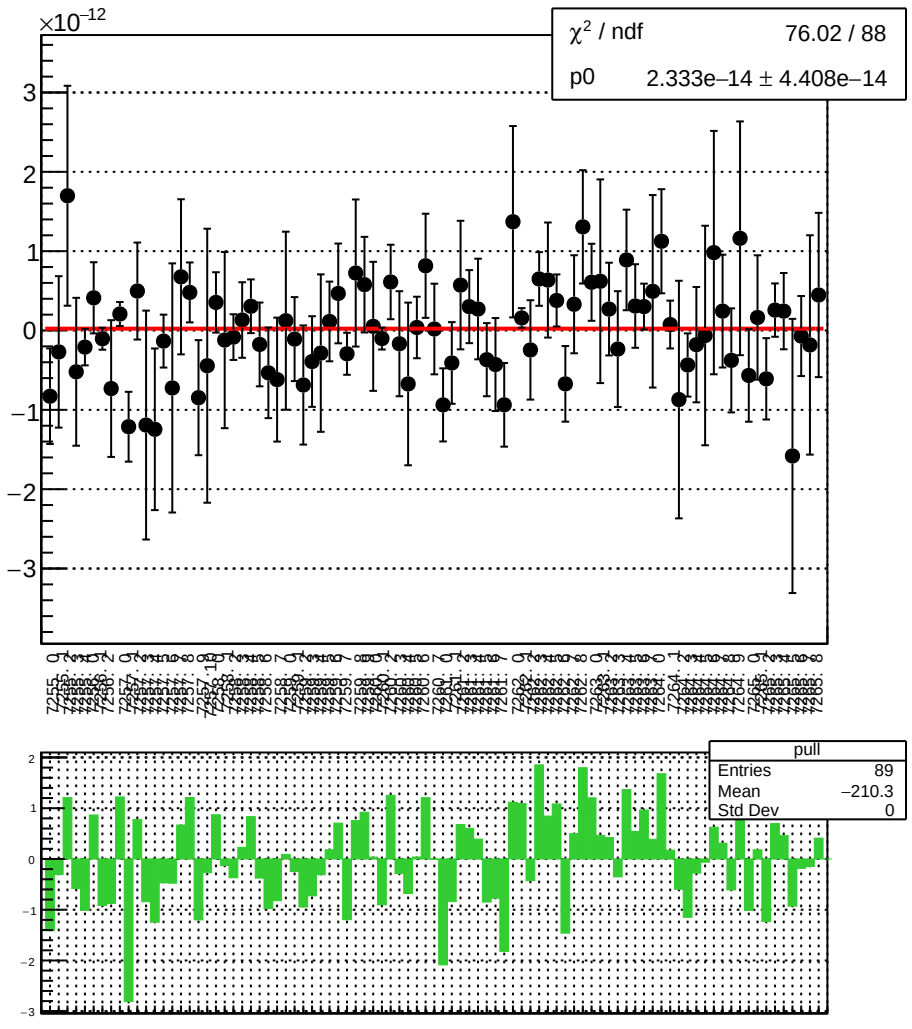

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.7 / 88
p0 0.3015 ± 0.2465
pull
Entries 89
Mean 145
Std Dev 0

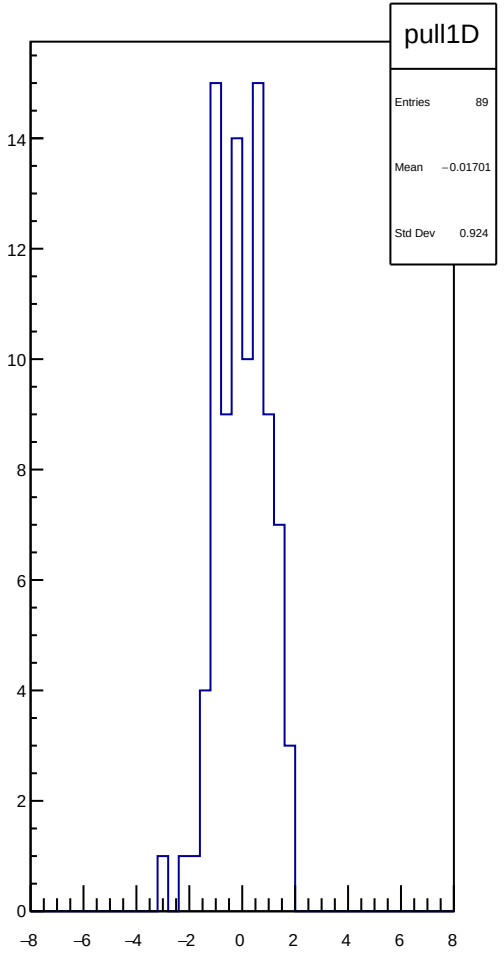

pull1D
Entries 89
Mean −0.01321
Std Dev 1.037

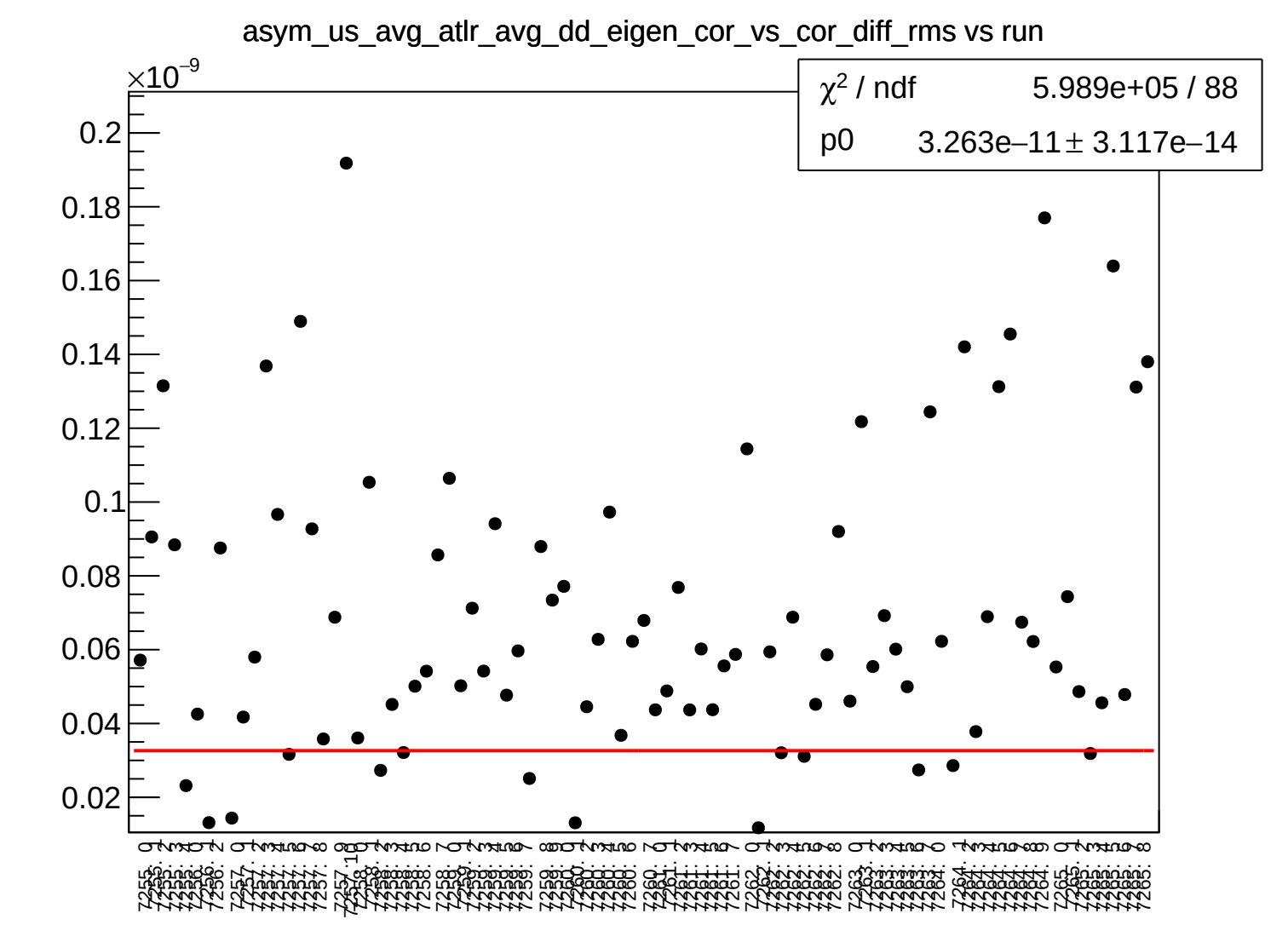

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.393e+04 / 88
p0 221.3 ± 0.1743
400
350
300
250
200
150

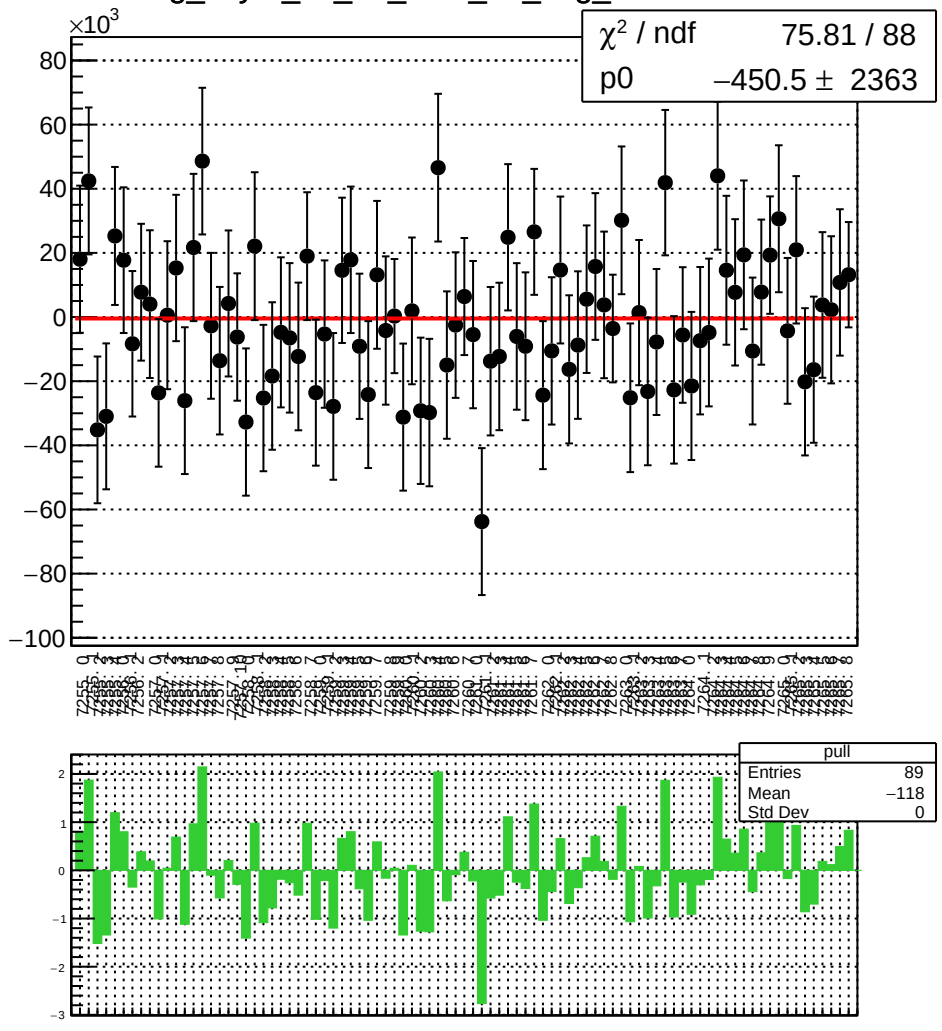

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.7 / 88
p0 0.3015 ± 0.2465
pull
Entries 89
Mean 145
Std Dev 0
pull1D
Entries 89
Mean −0.01321
Std Dev 1.037

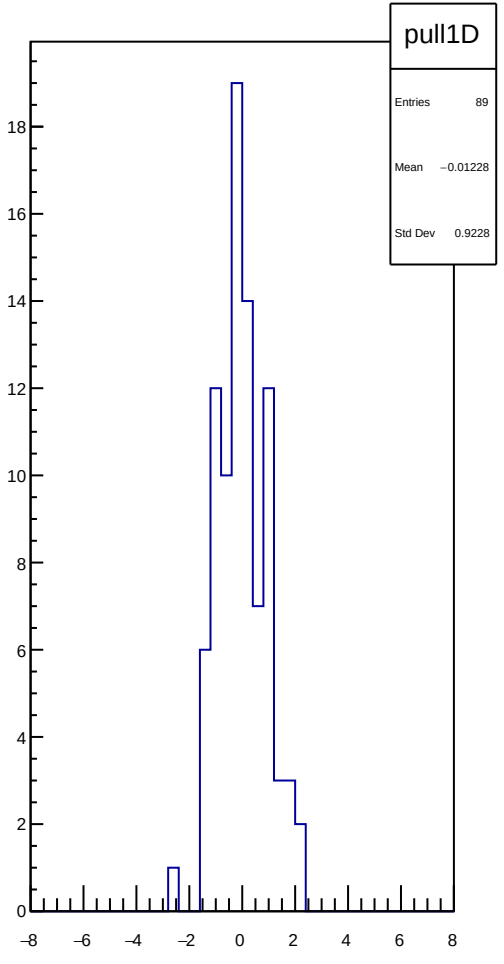

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.393e+04 / 88
p0 221.3 ± 0.1743
400
350
300
250
200
150

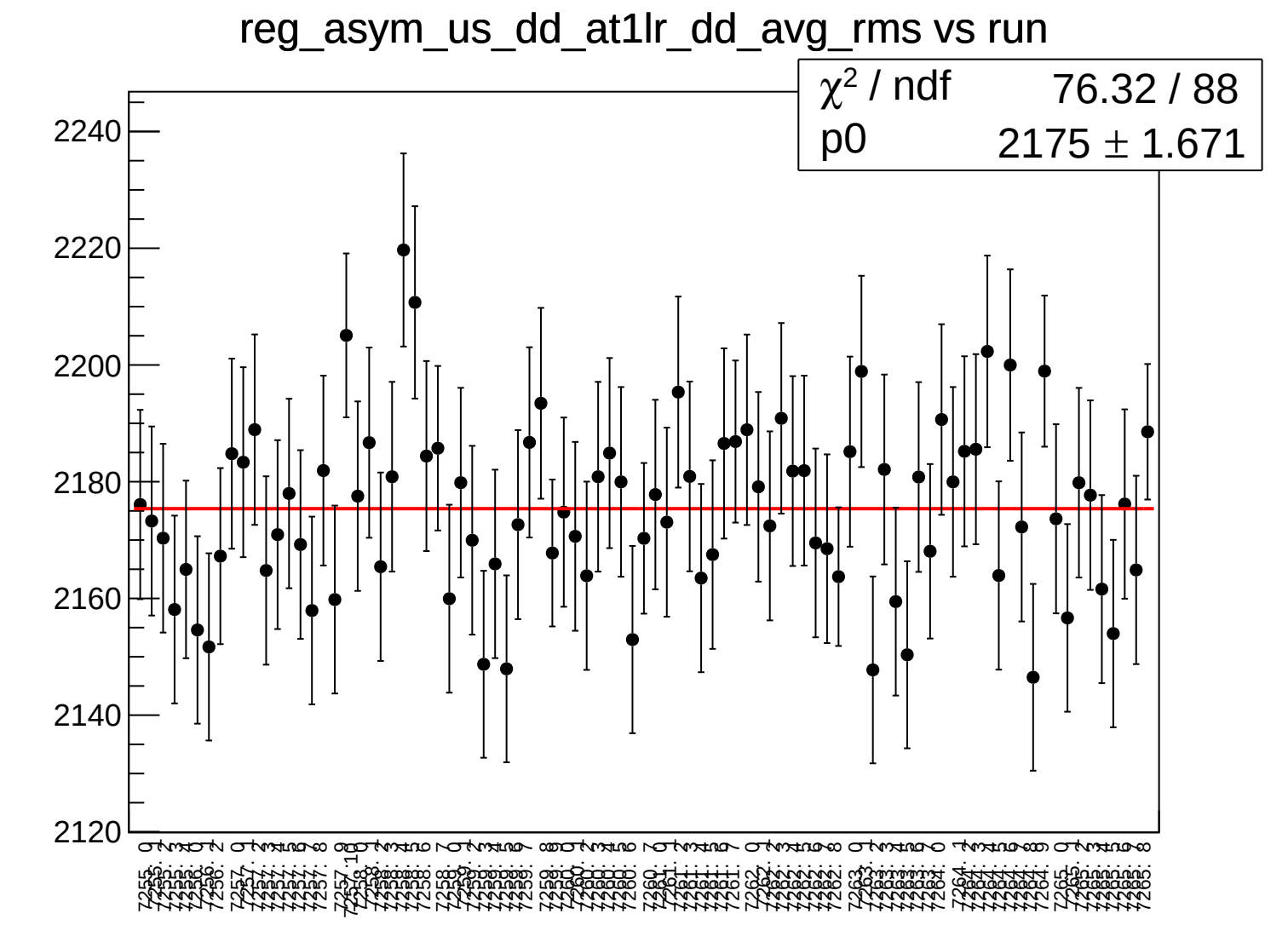

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.02 / 88
p0 2.333e−14 ± 4.408e−14
pull
Entries 89
Mean −210.3
Std Dev 0

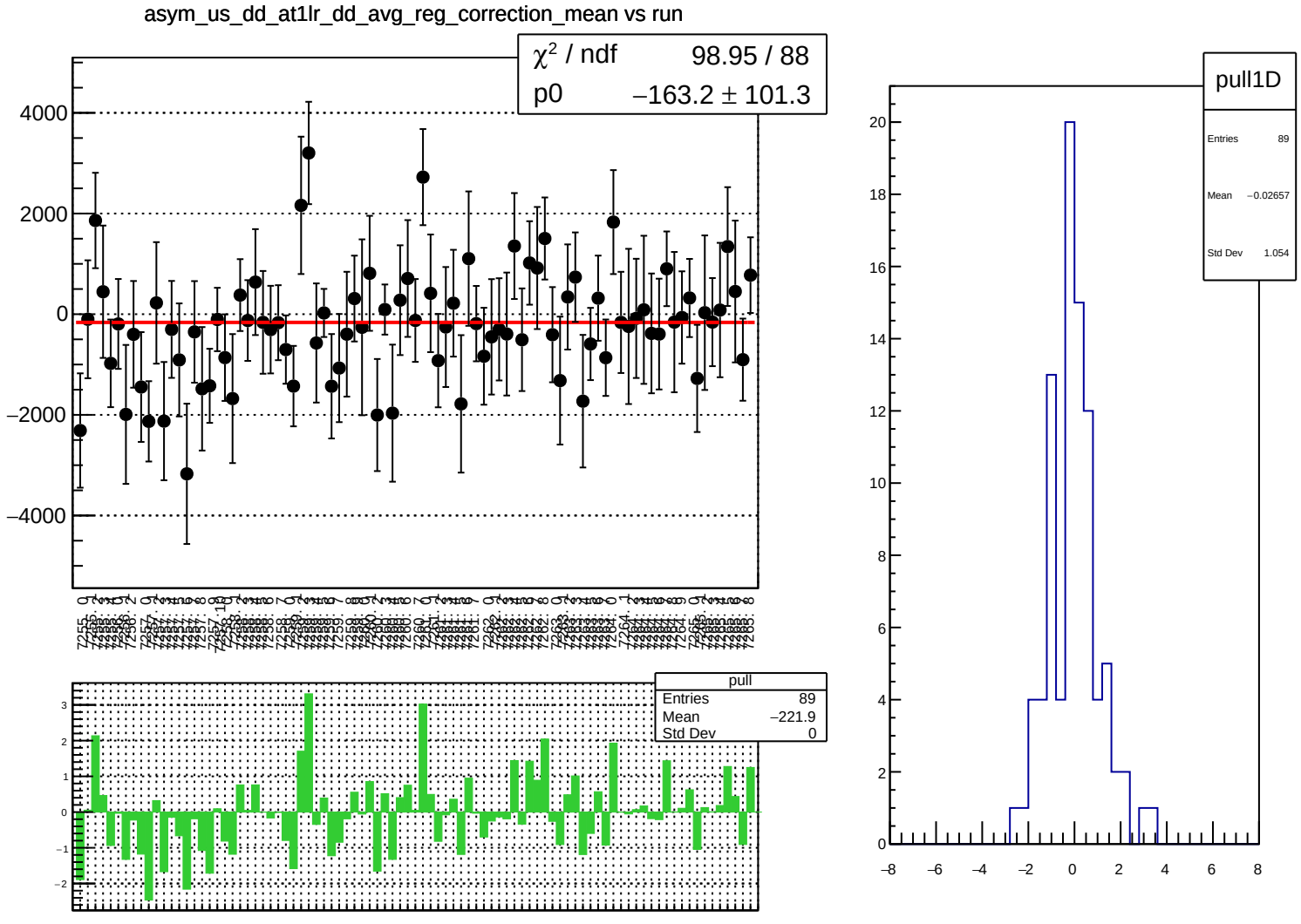

pull1D
Entries 89
Mean −0.01701
Std Dev 0.924

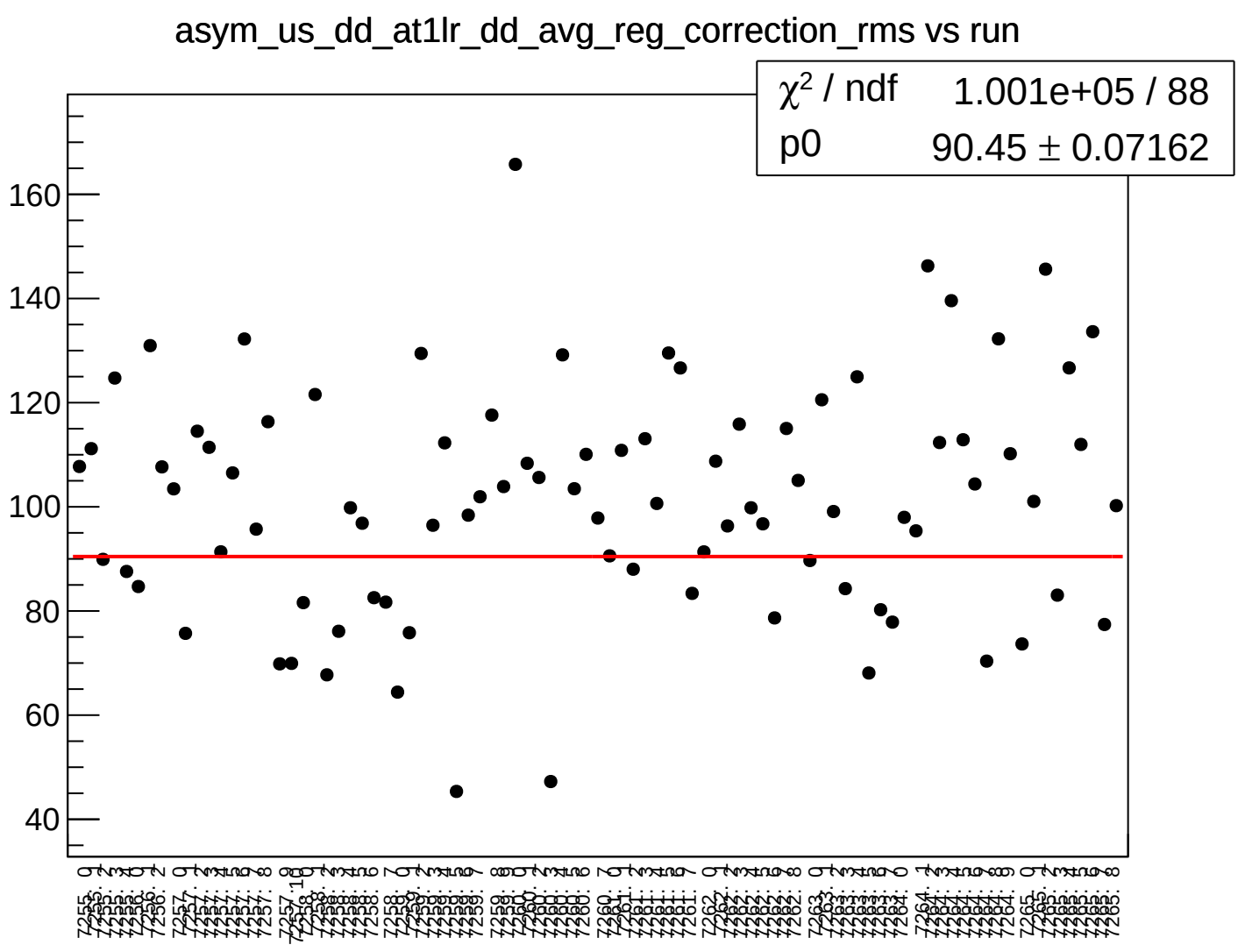

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.989e+05 / 88
p0 3.263e−11 ± 3.117e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

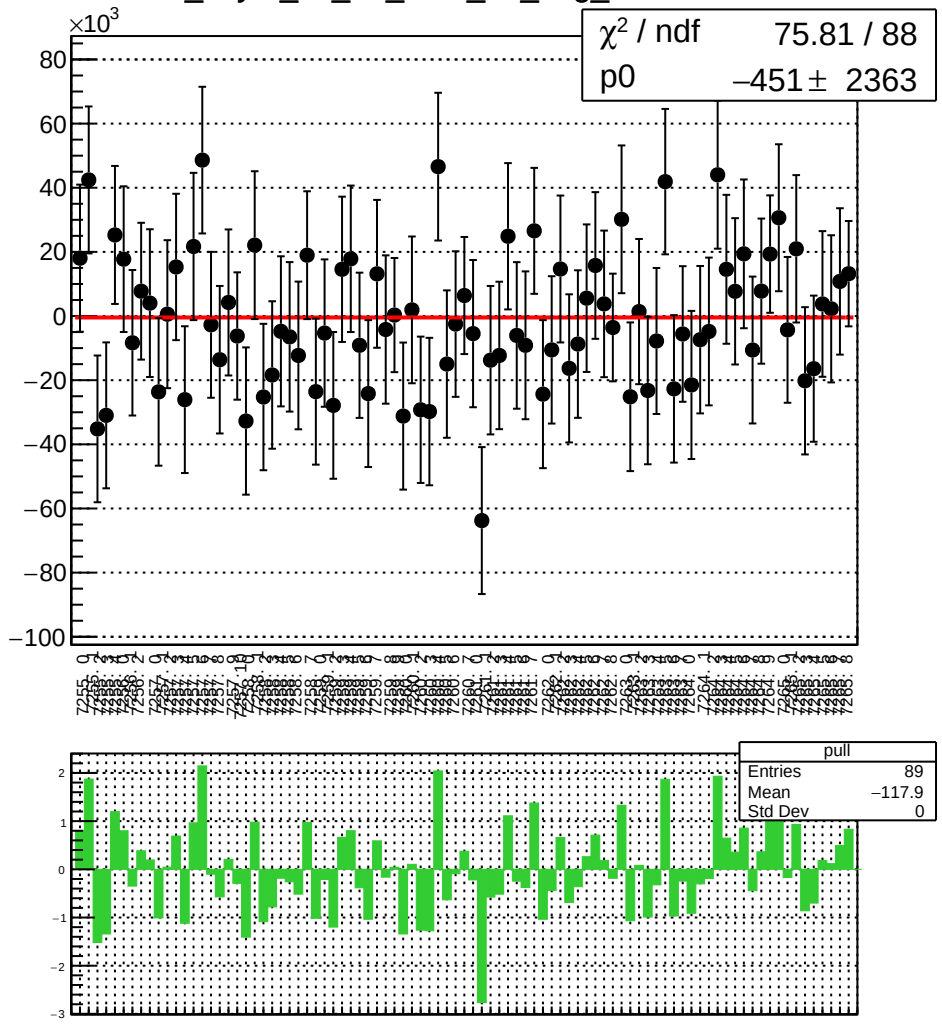

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 75.81 / 88
p0 −450.5 ± 2363
pull
Entries 89
Mean −118
Std Dev 0

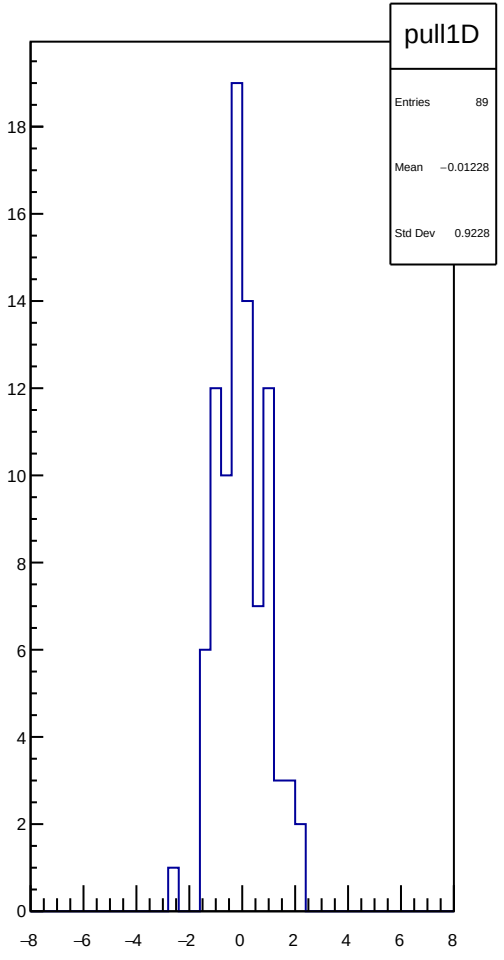

pull1D
Entries 89
Mean −0.01228
Std Dev 0.9228

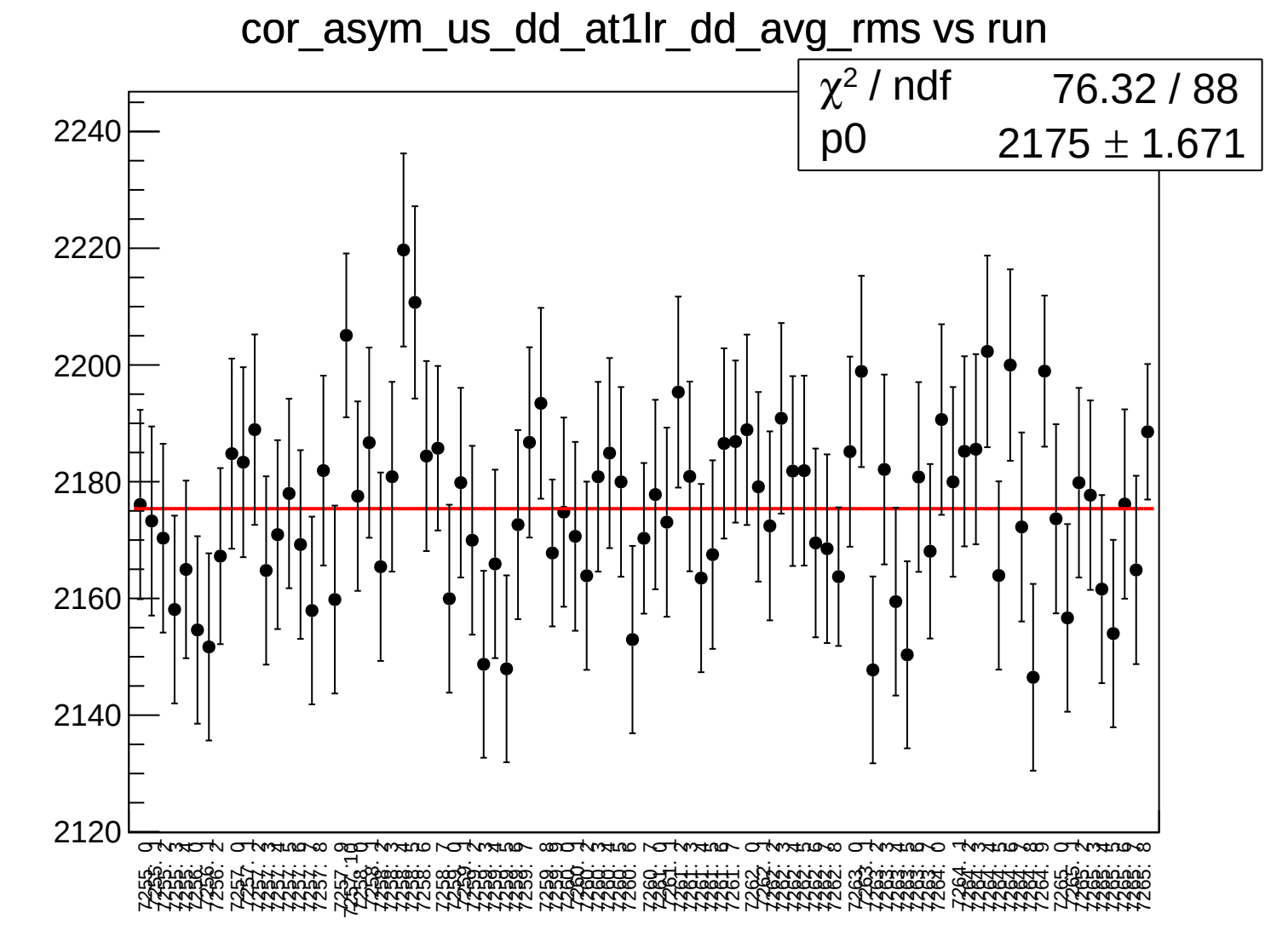

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 76.32 / 88
p0 2175 ± 1.671
2240
2220
2200
2180
2160
2140
2120

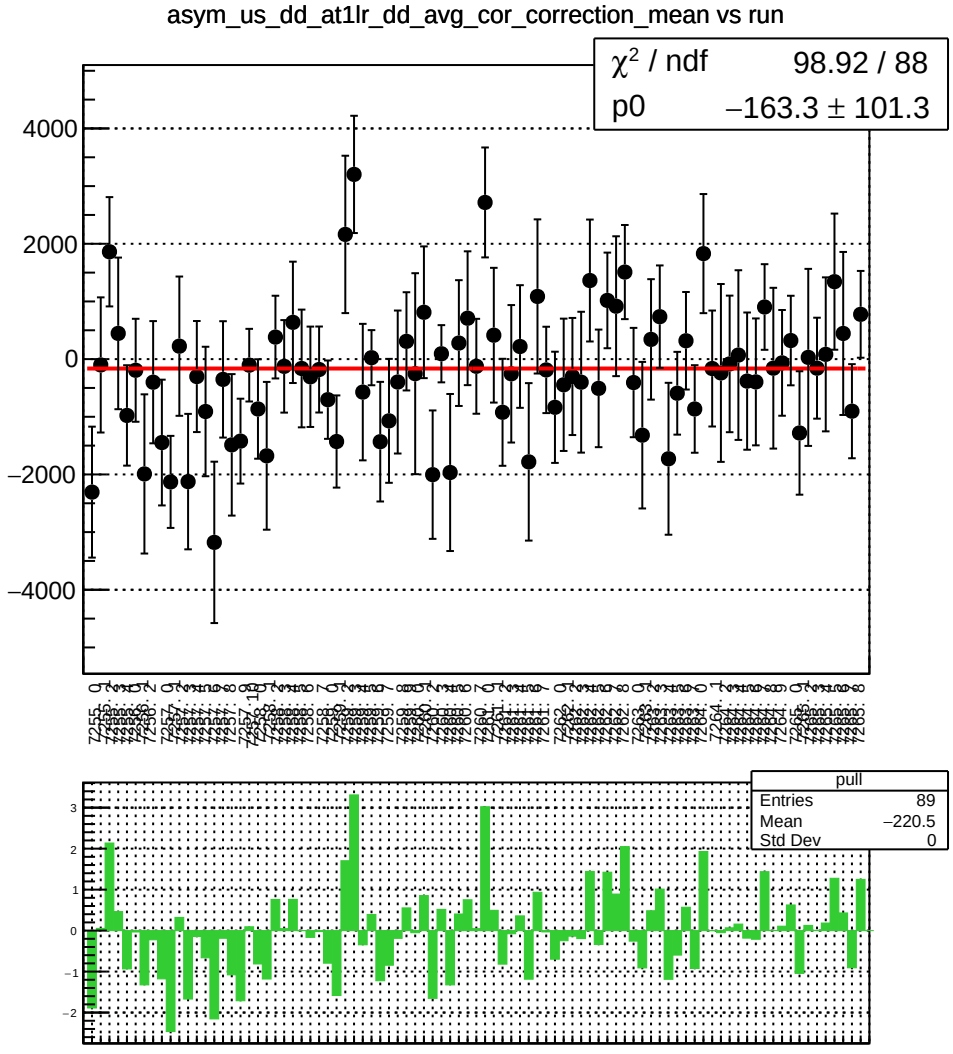

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 98.95 / 88
p0 −163.2 ± 101.3
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −221.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02657
Std Dev 1.054
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

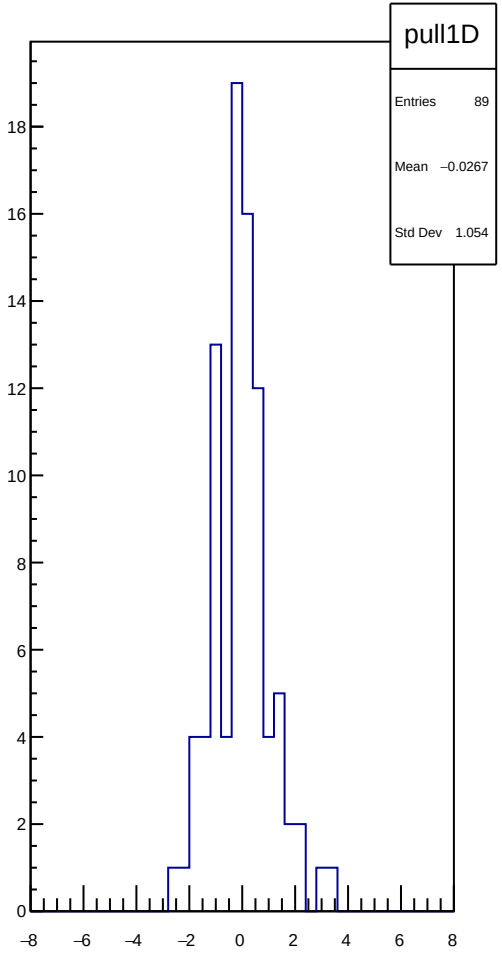

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.001e+05 / 88
p0 90.45 ± 0.07162
160
140
120
100
80
60
40

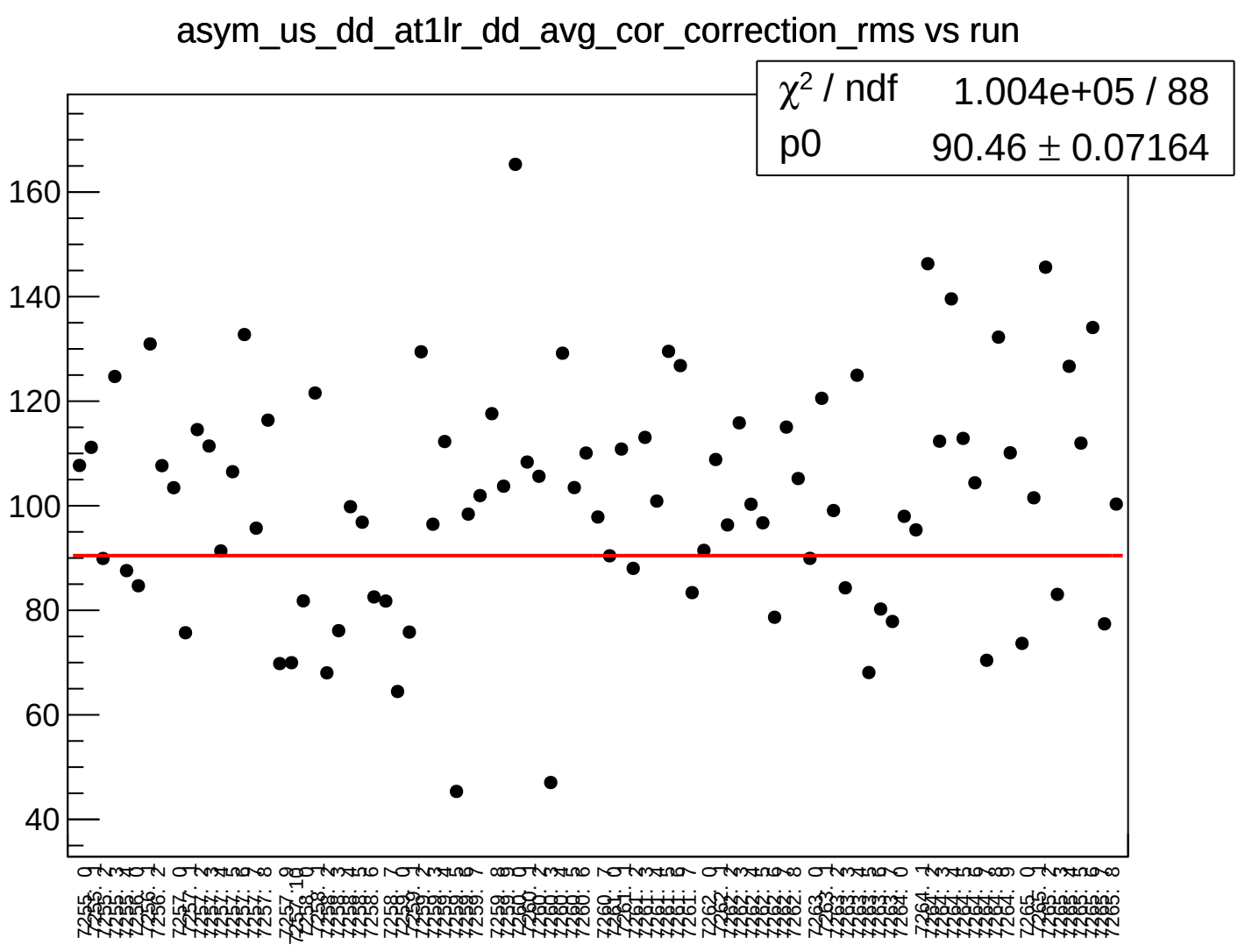

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.81 / 88
p0 −451 ± 2363
×10³
pull
Entries 89
Mean −117.9
Std Dev 0

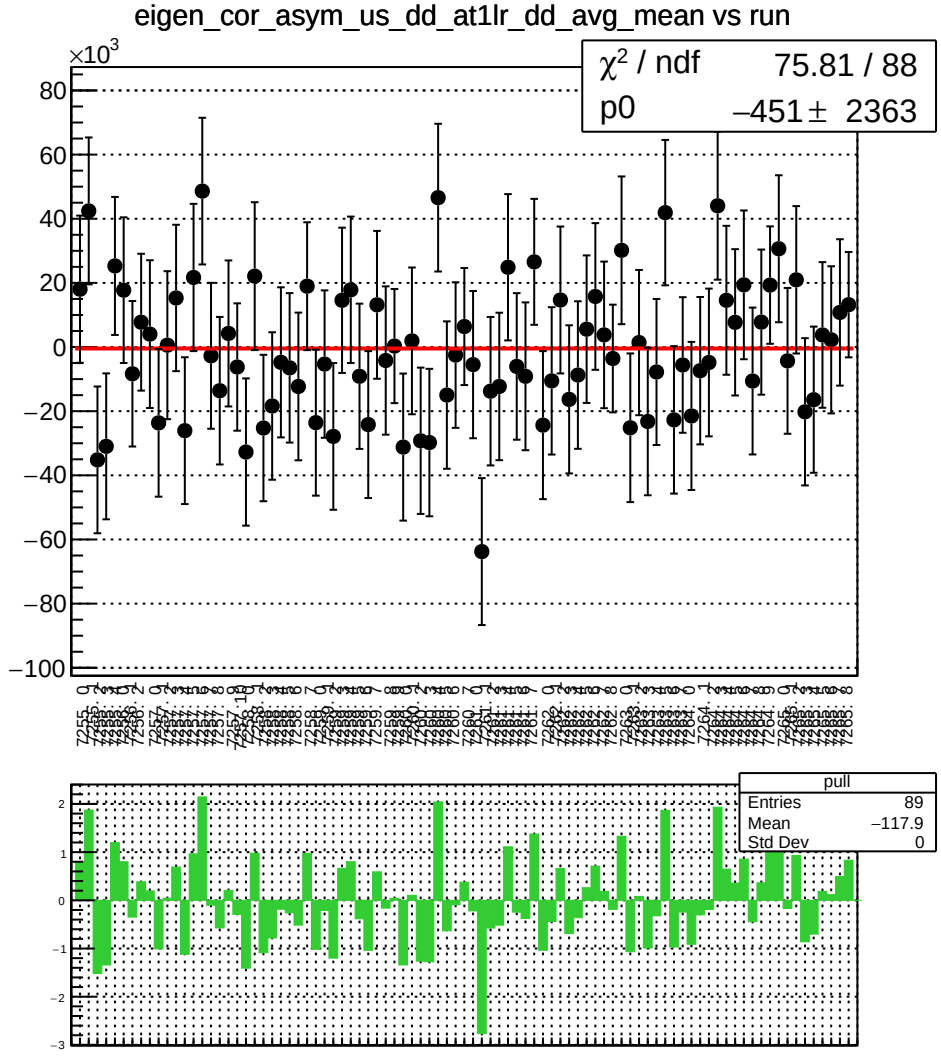

pull1D
Entries 89
Mean −0.01228
Std Dev 0.9228

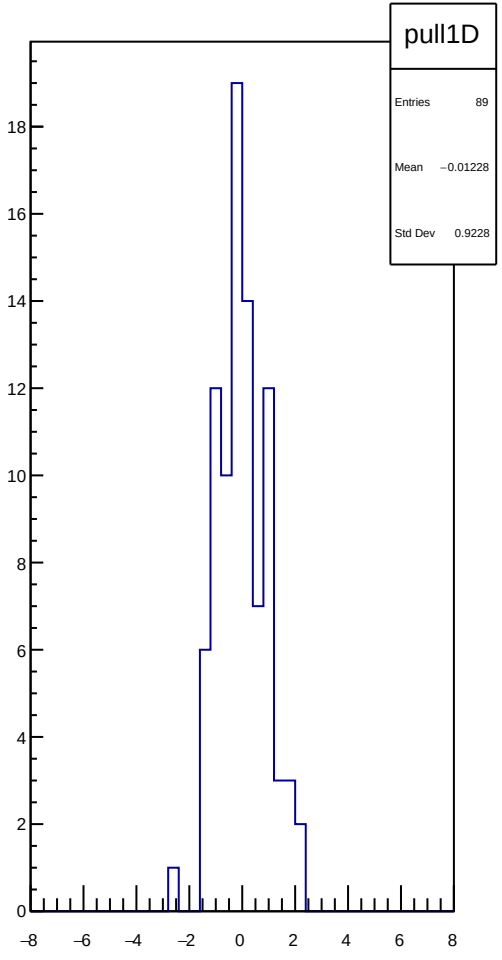

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 76.32 / 88
p0 2175 ± 1.671
2240
2220
2200
2180
2160
2140
2120

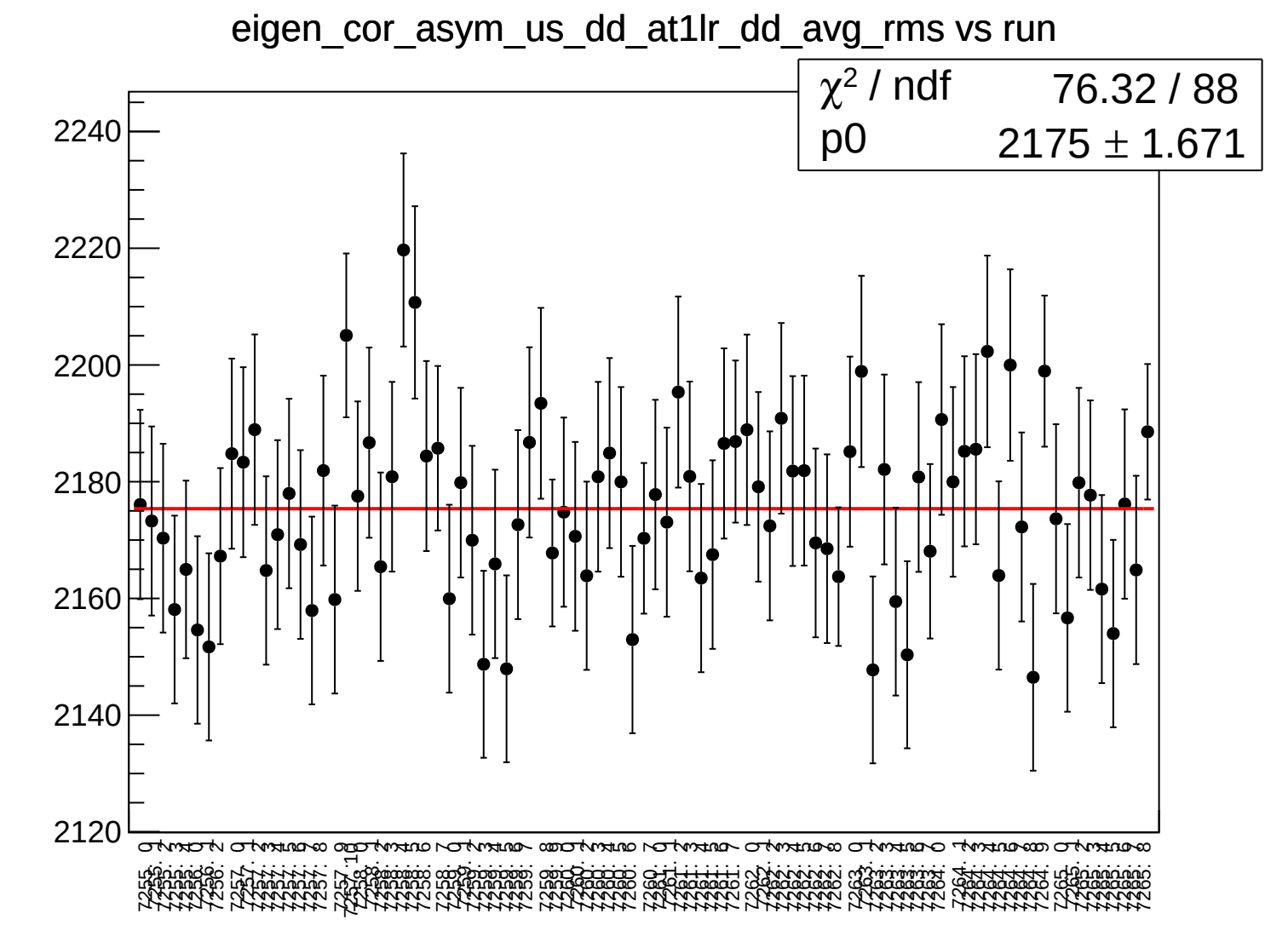

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 98.92 / 88
p0 −163.3 ± 101.3
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −220.5
Std Dev 0
3
2
1
0
−1
−2

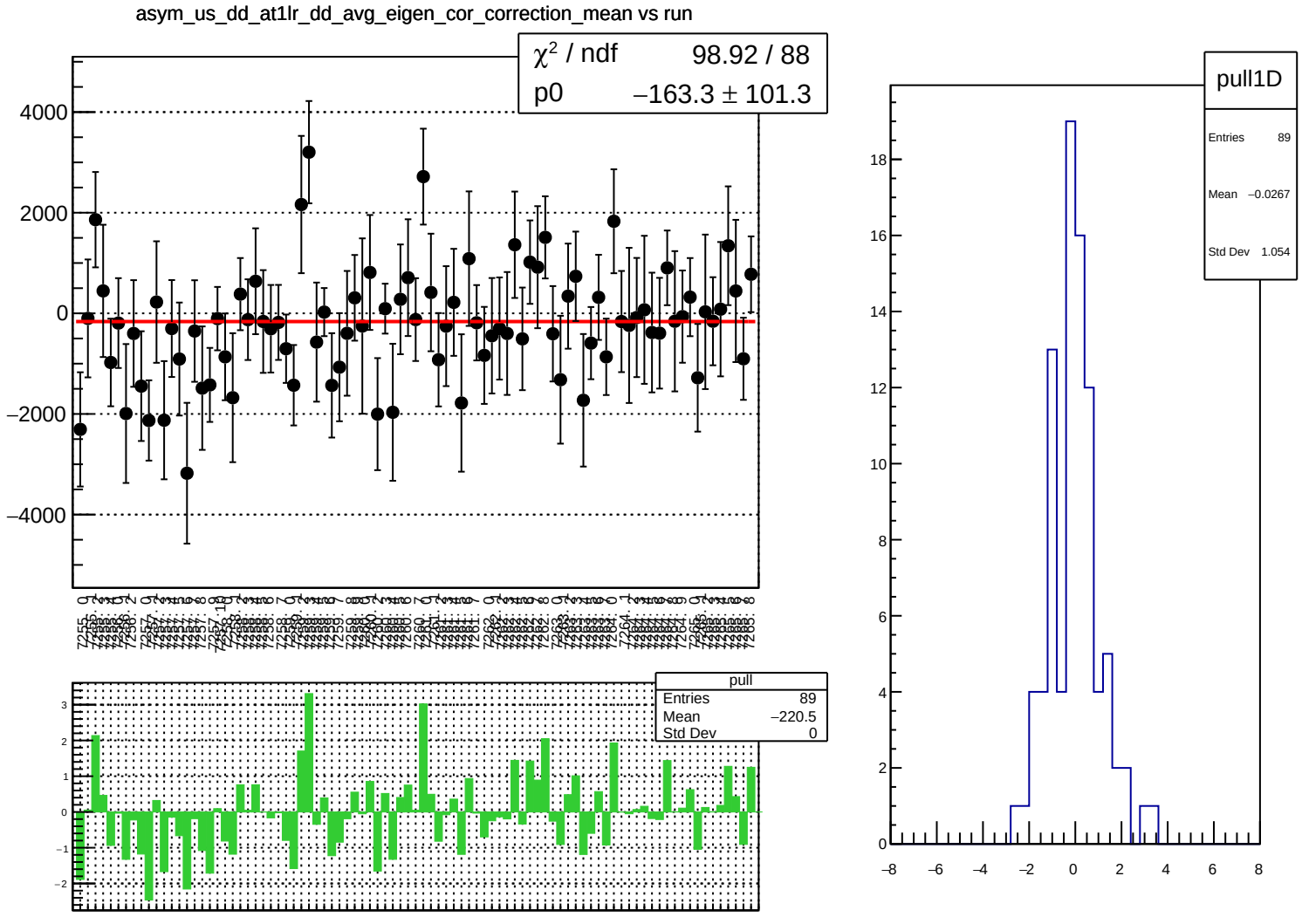

pull1D
Entries 89
Mean −0.0267
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

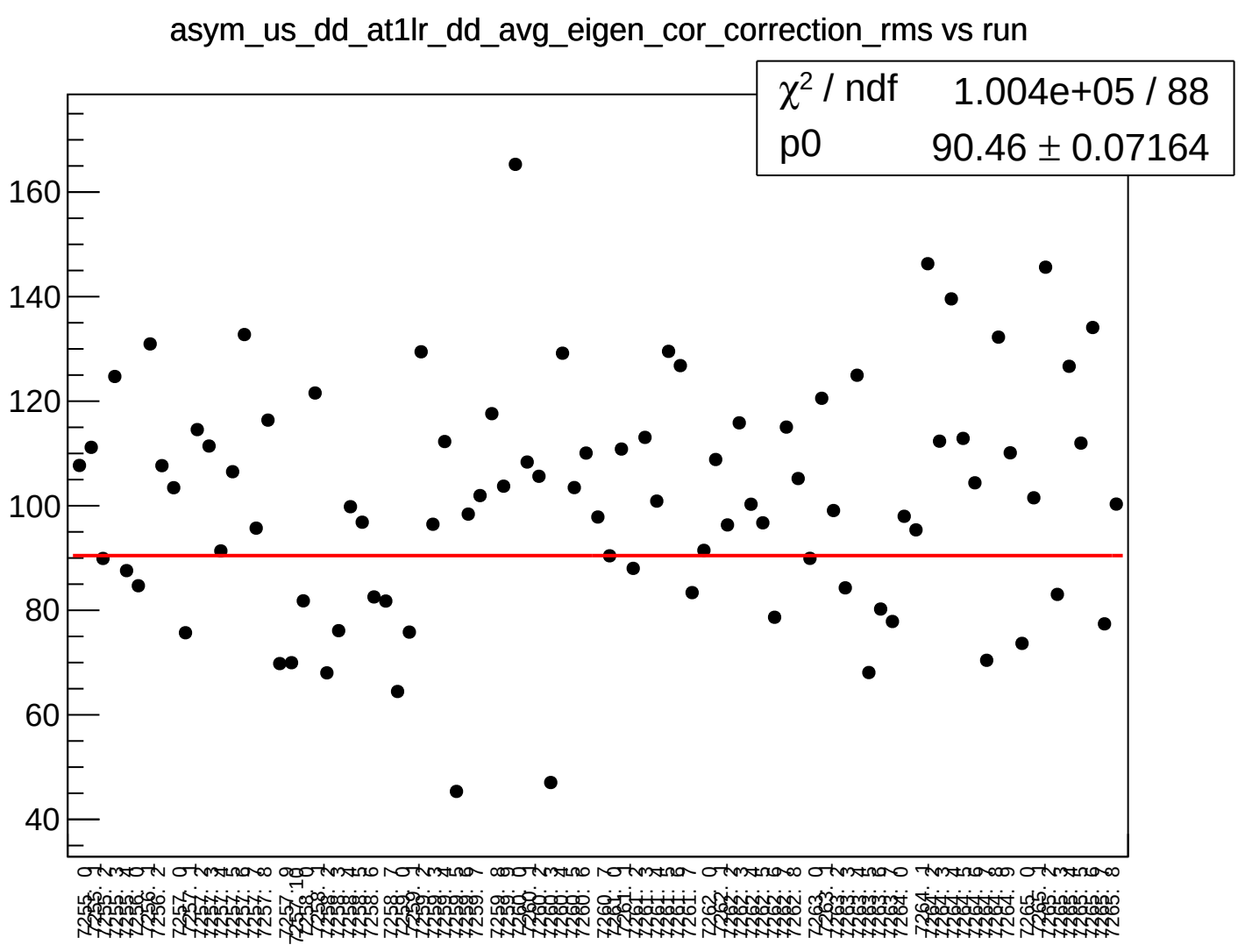

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.004e+05 / 88
p0 90.46 ± 0.07164
160
140
120
100
80
60
40

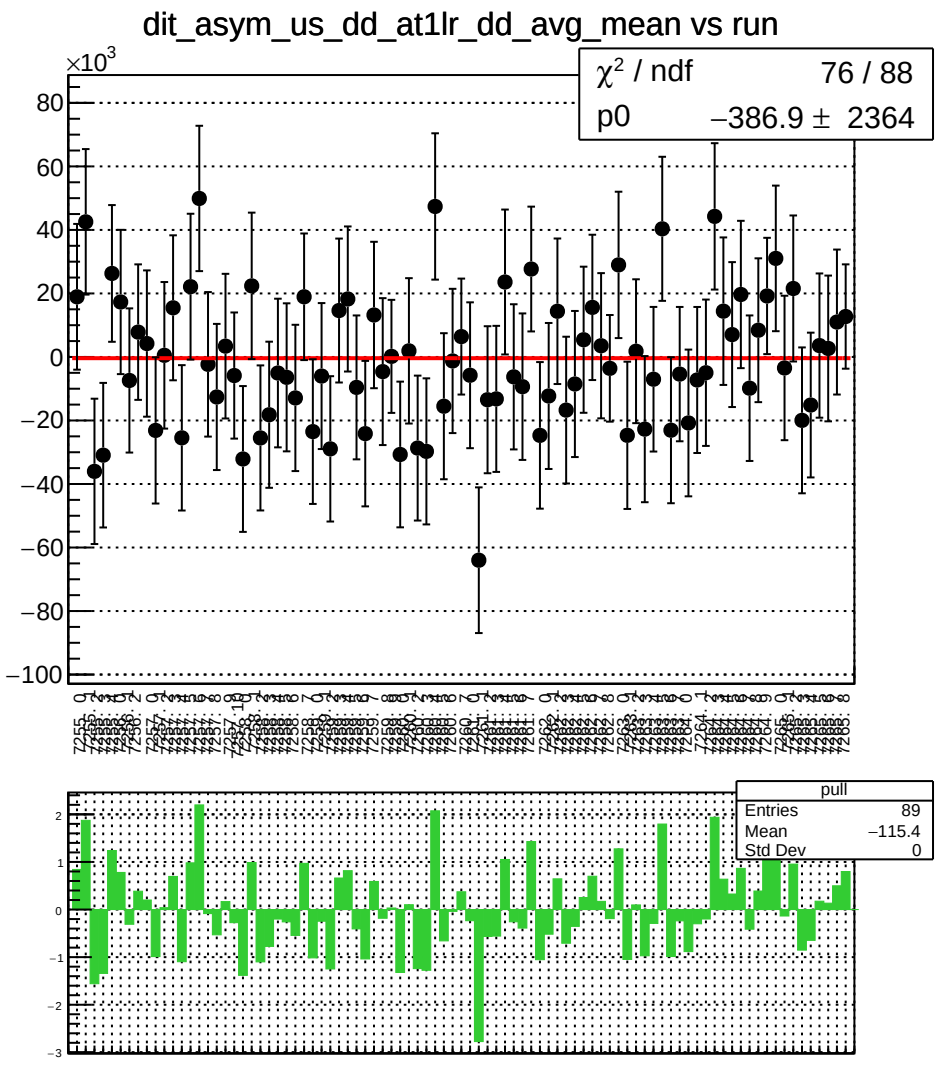

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.81 / 88
p0 −451 ± 2363
pull
Entries 89
Mean −117.9
Std Dev 0

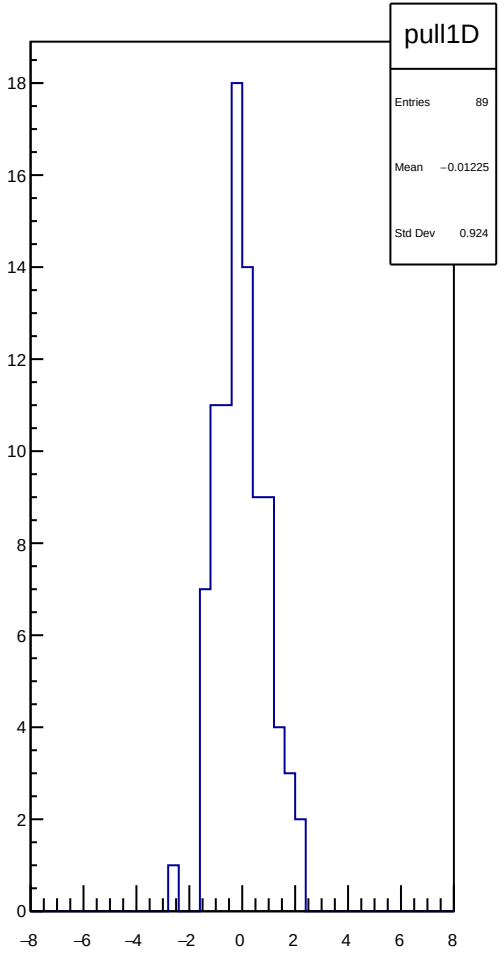

pull1D
Entries 89
Mean −0.01228
Std Dev 0.9228

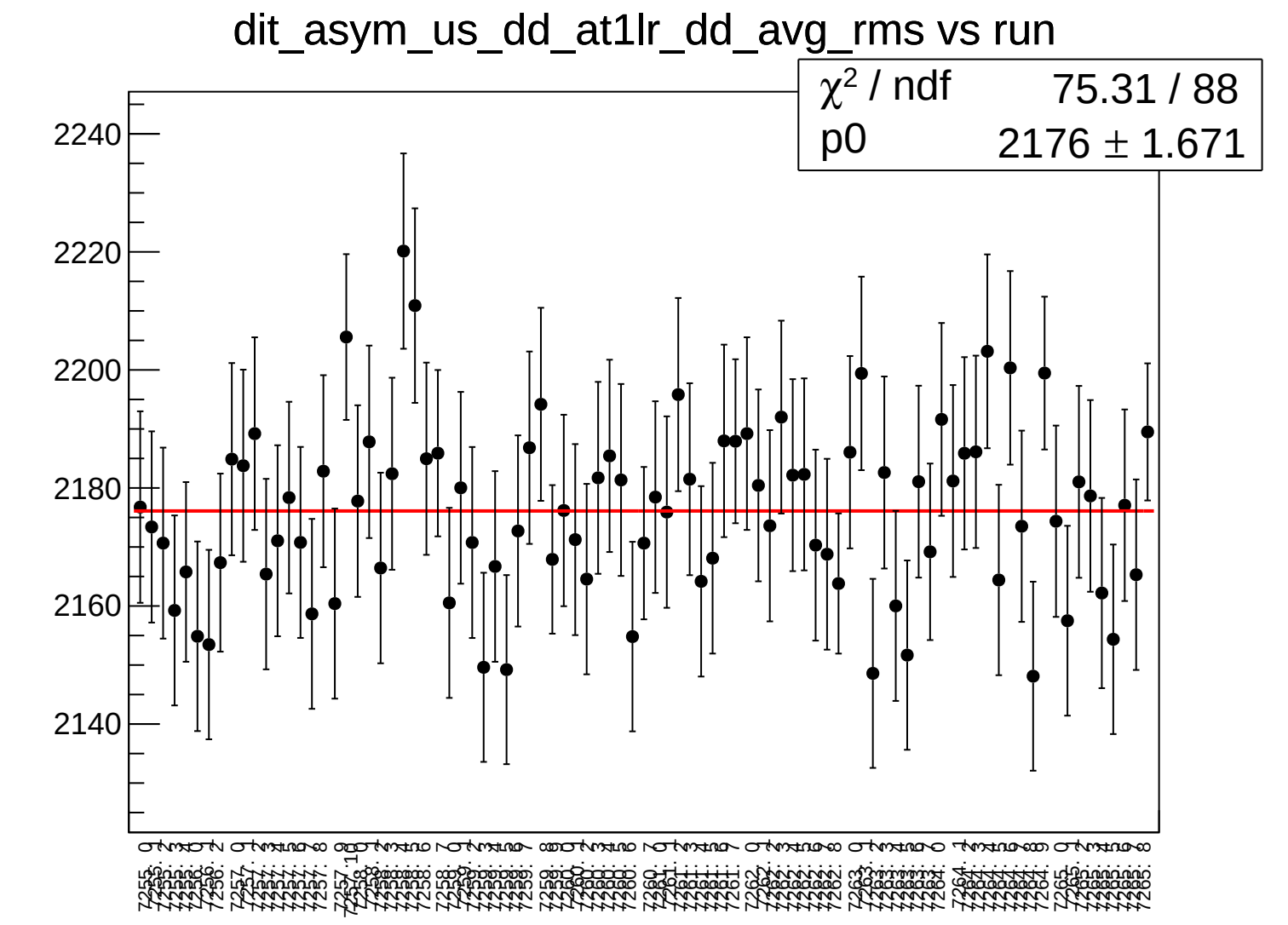

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 76.32 / 88
p0 2175 ± 1.671
2240
2220
2200
2180
2160
2140
2120

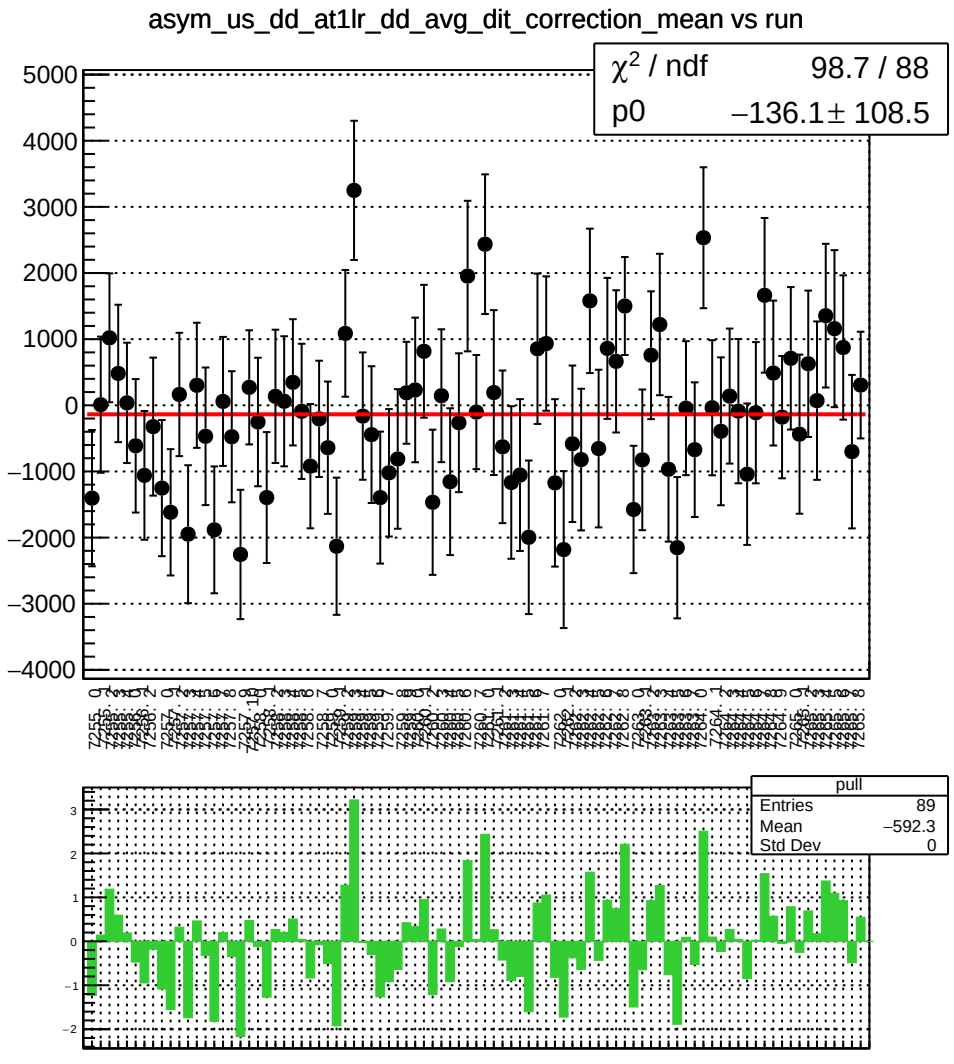

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 98.92 / 88
p0 −163.3 ± 101.3
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −220.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.0267
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

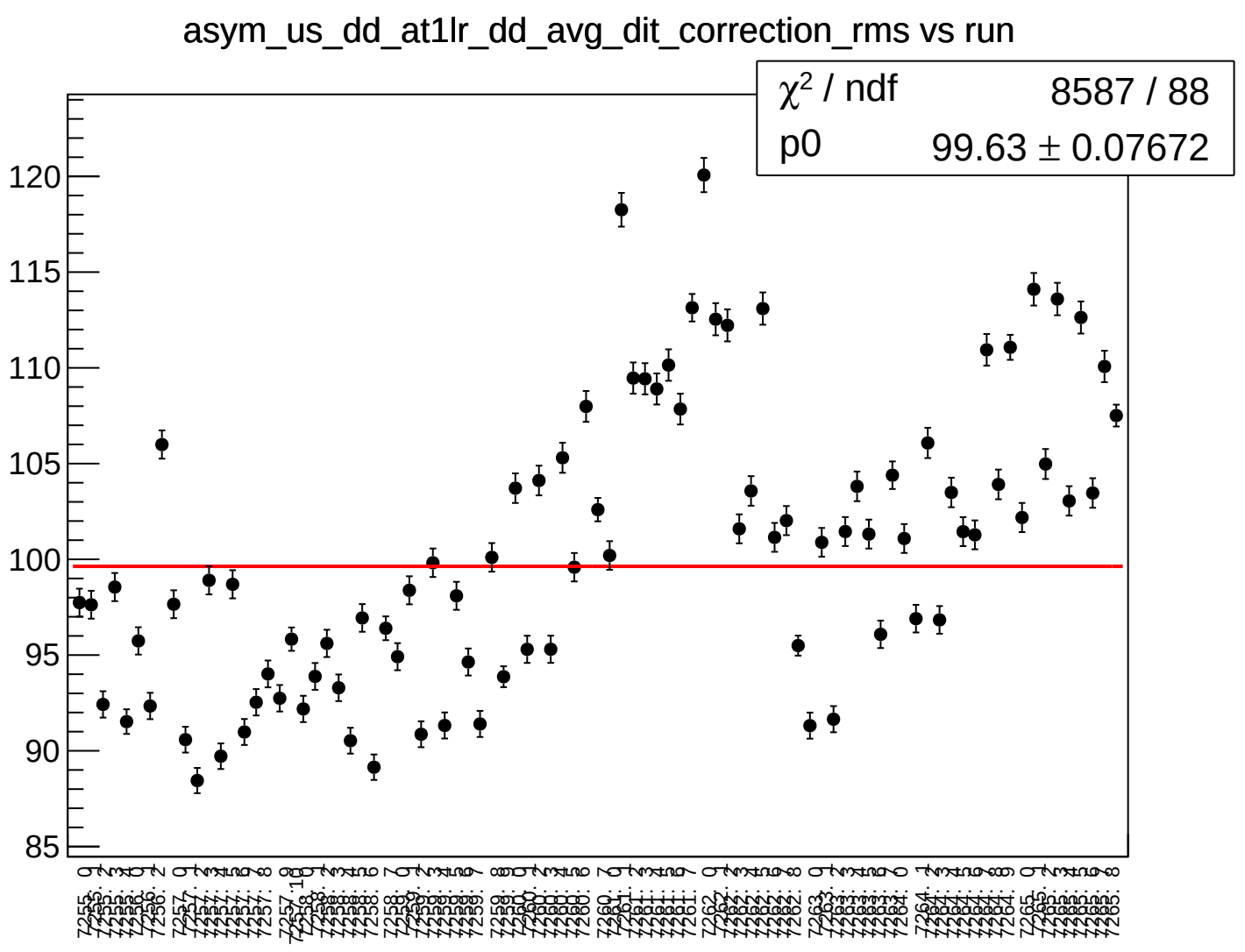

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.004e+05 / 88
p0 90.46 ± 0.07164
160
140
120
100
80
60
40

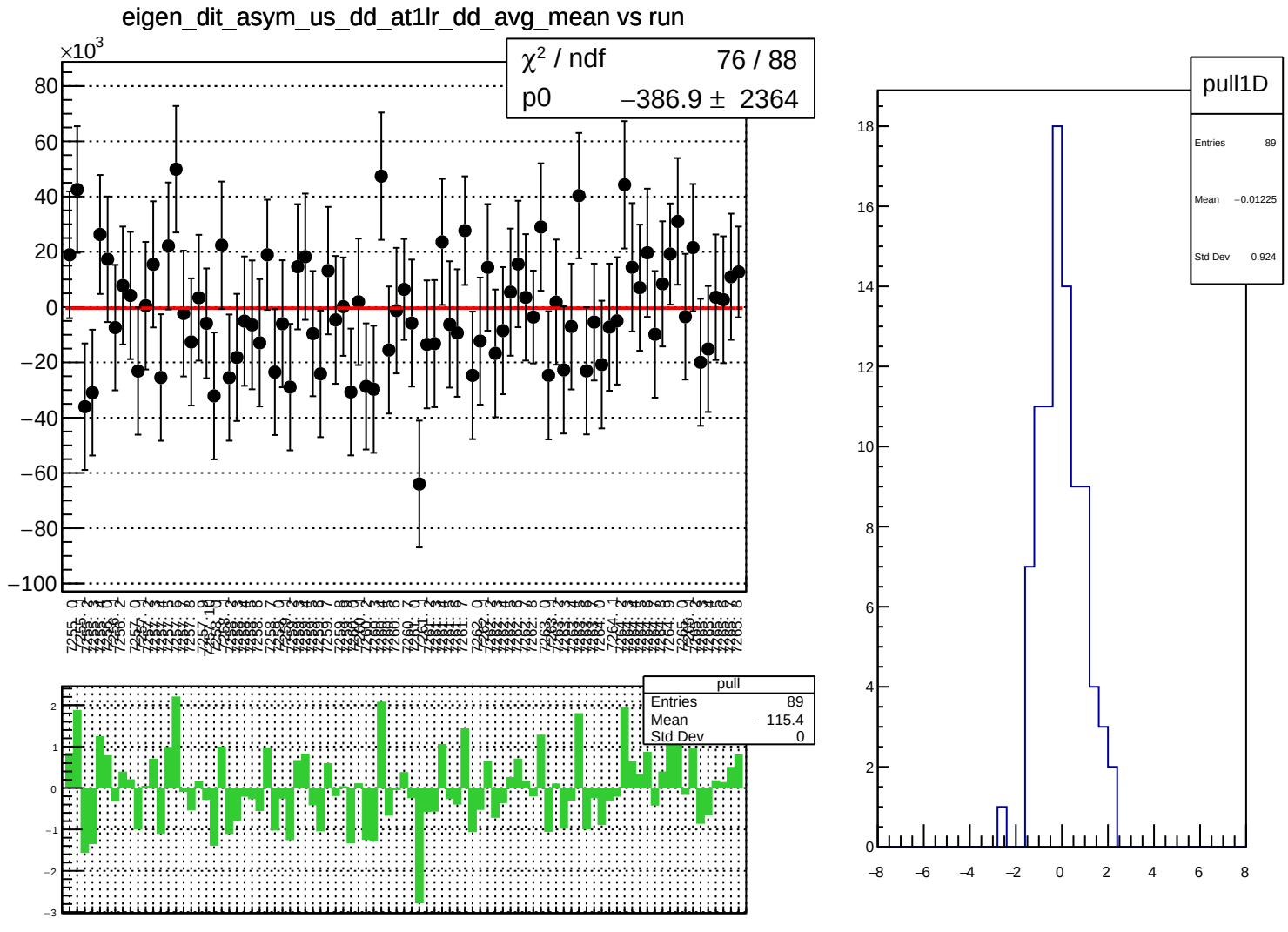

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 76 / 88
p0 −386.9 ± 2364
×10³
pull
Entries 89
Mean −115.4
Std Dev 0

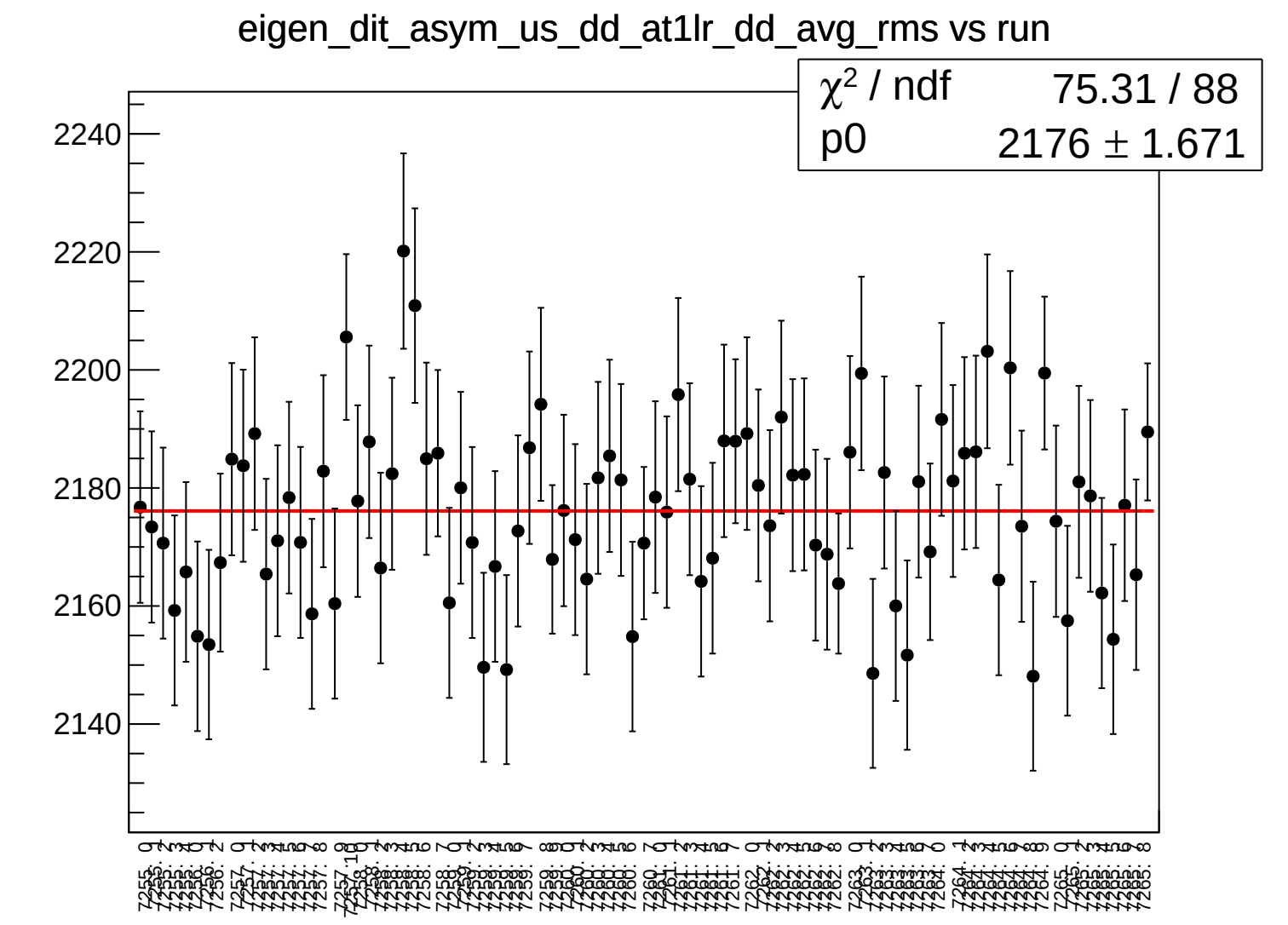

pull1D
Entries 89
Mean −0.01225
Std Dev 0.924

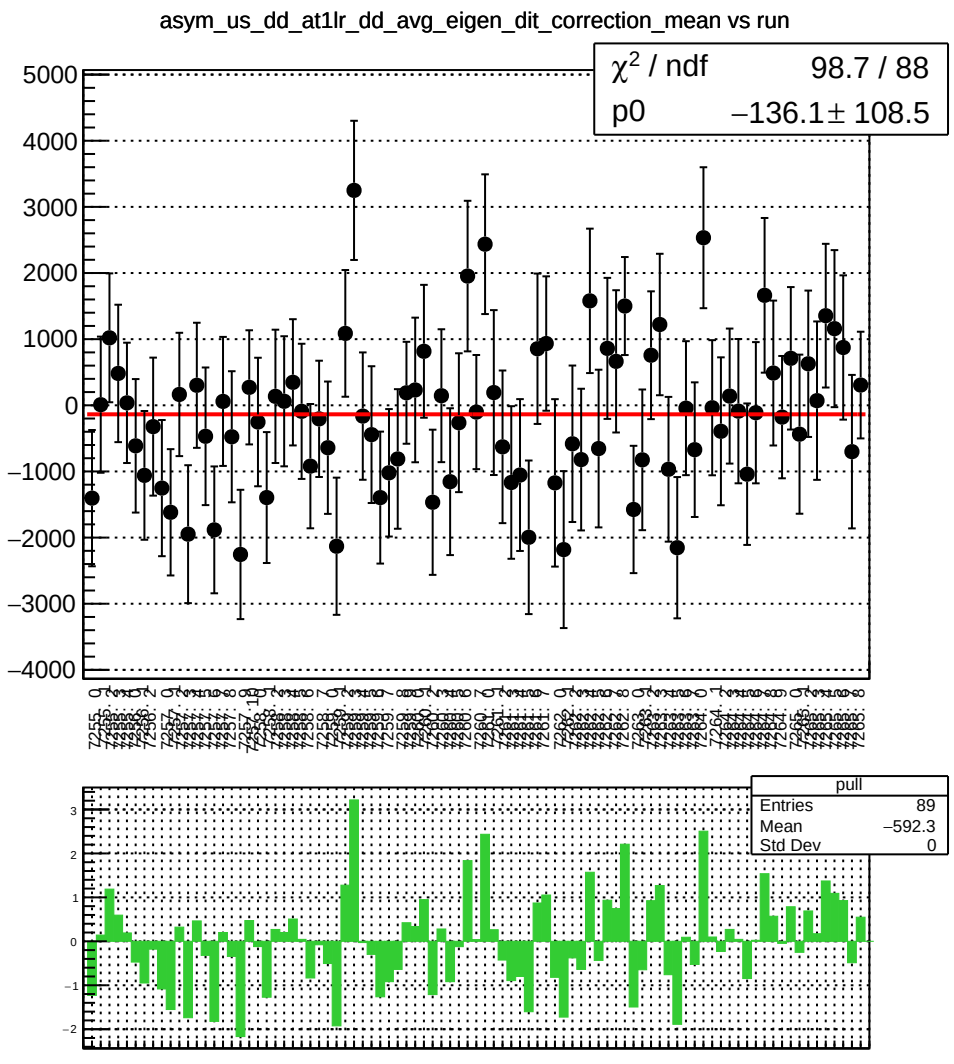

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 75.31 / 88
p0 2176 ± 1.671
2240
2220
2200
2180
2160
2140

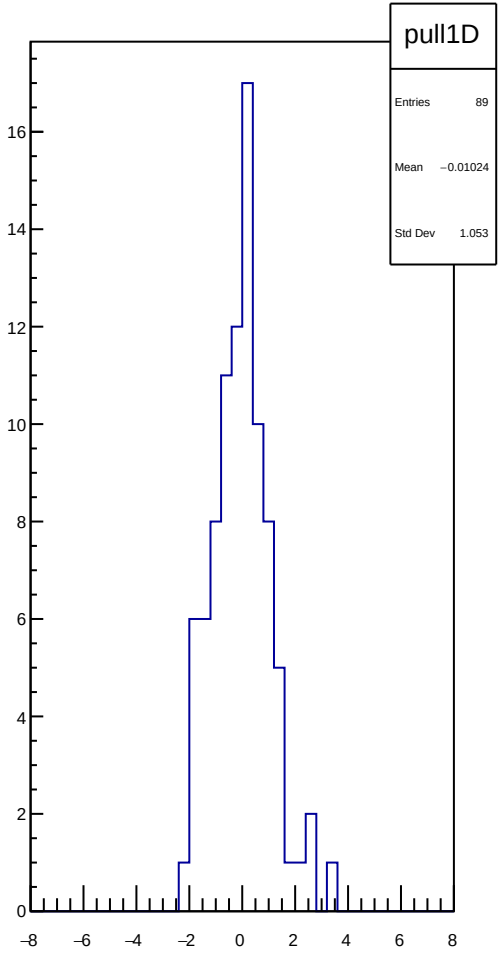

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 98.7 / 88
p0 −136.1± 108.5
pull
Entries 89
Mean −592.3
Std Dev 0
pull1D
Entries 89
Mean −0.01024
Std Dev 1.053

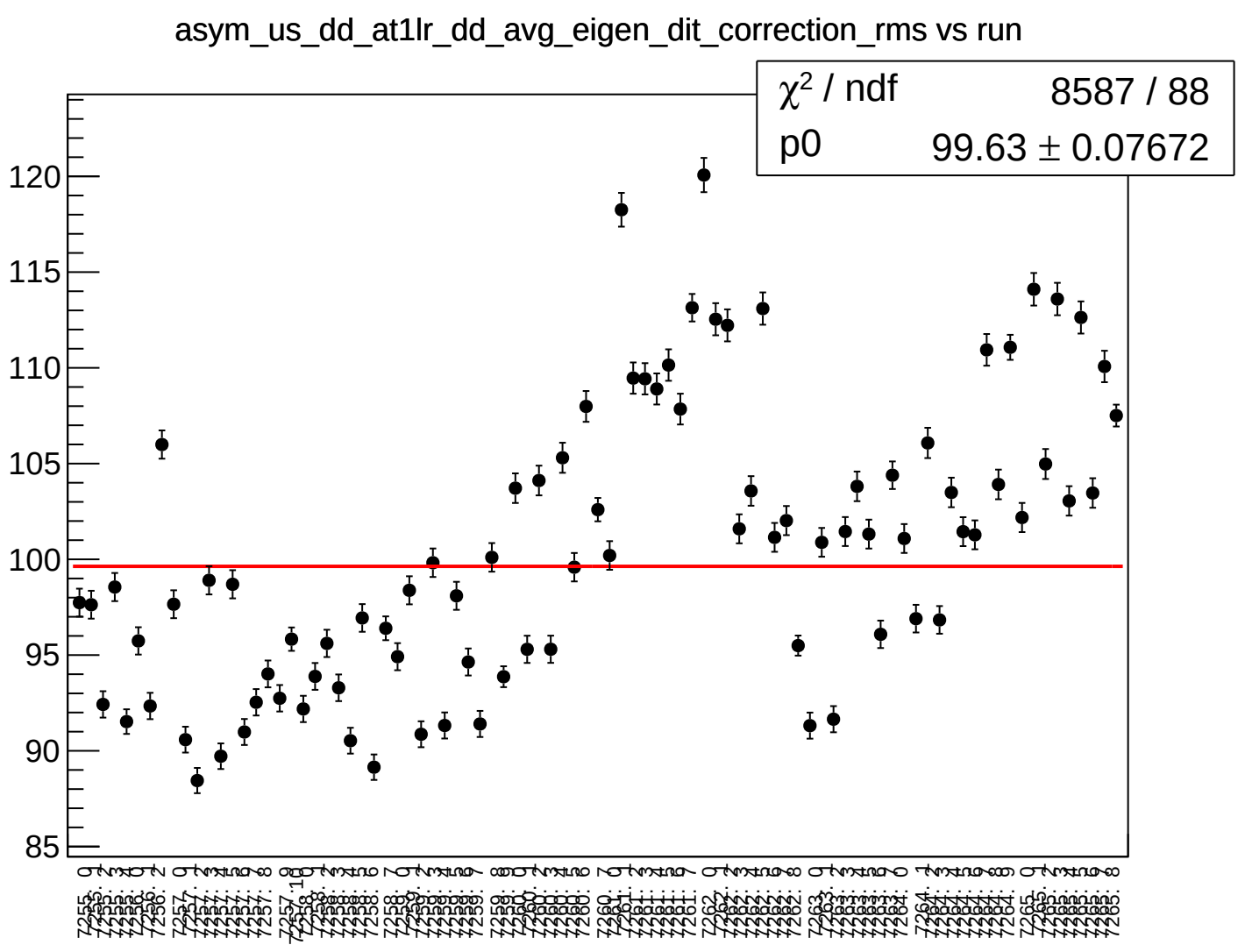

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 8587 / 88
p0 99.63 ± 0.07672
120
115
110
105
100
95
90
85

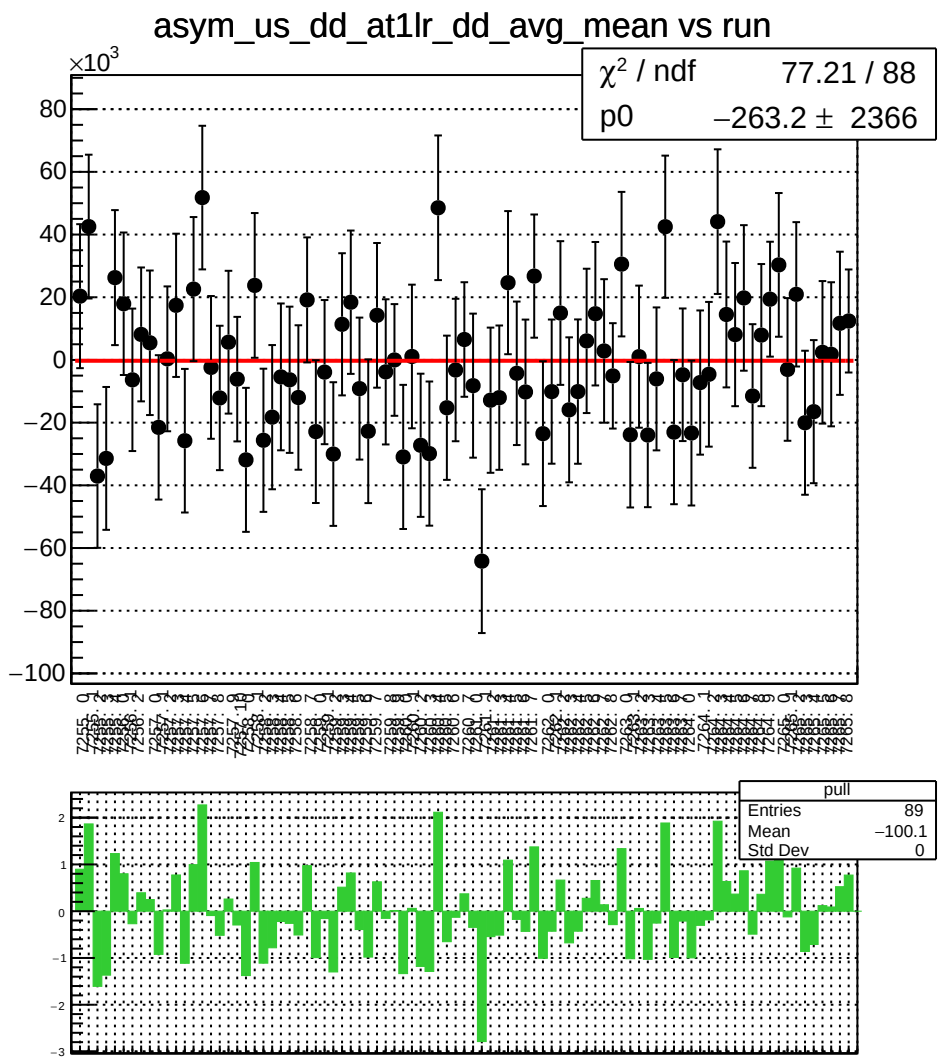

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 76 / 88
p0 −386.9 ± 2364
×10³
pull
Entries 89
Mean −115.4
Std Dev 0
pull1D
Entries 89
Mean −0.01225
Std Dev 0.924

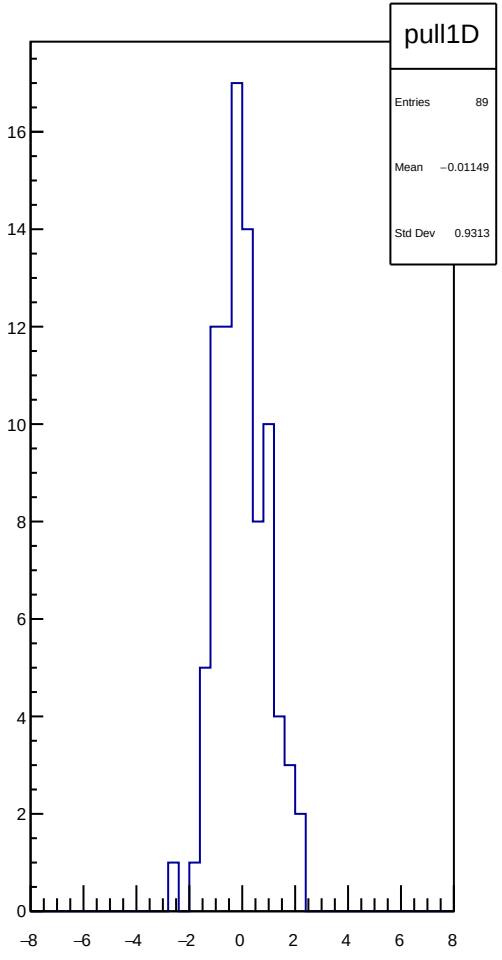

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 75.31 / 88
p0 2176 ± 1.671
2240
2220
2200
2180
2160
2140

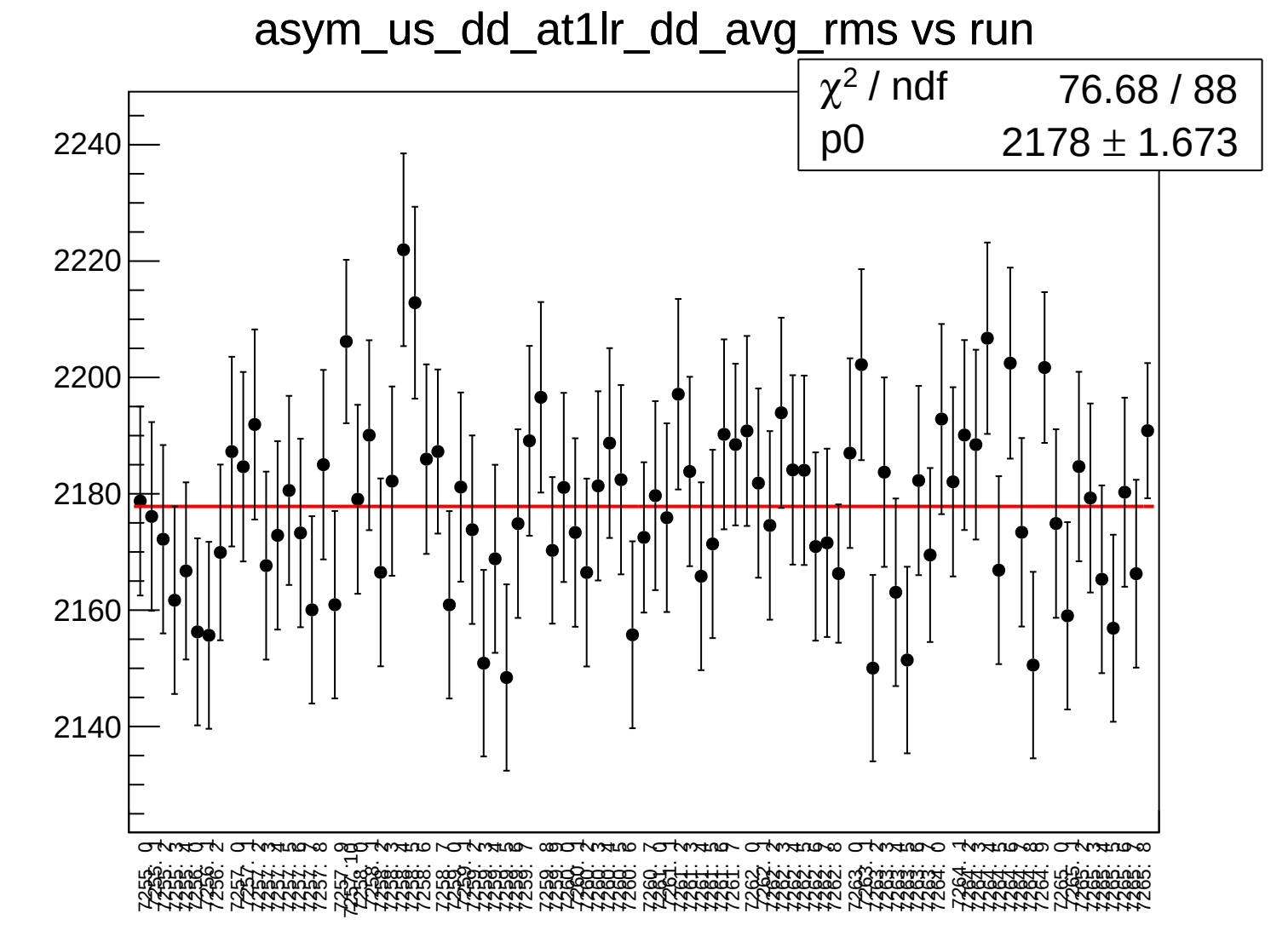

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.7 / 88
p0 −136.1± 108.5
pull
Entries 89
Mean −592.3
Std Dev 0

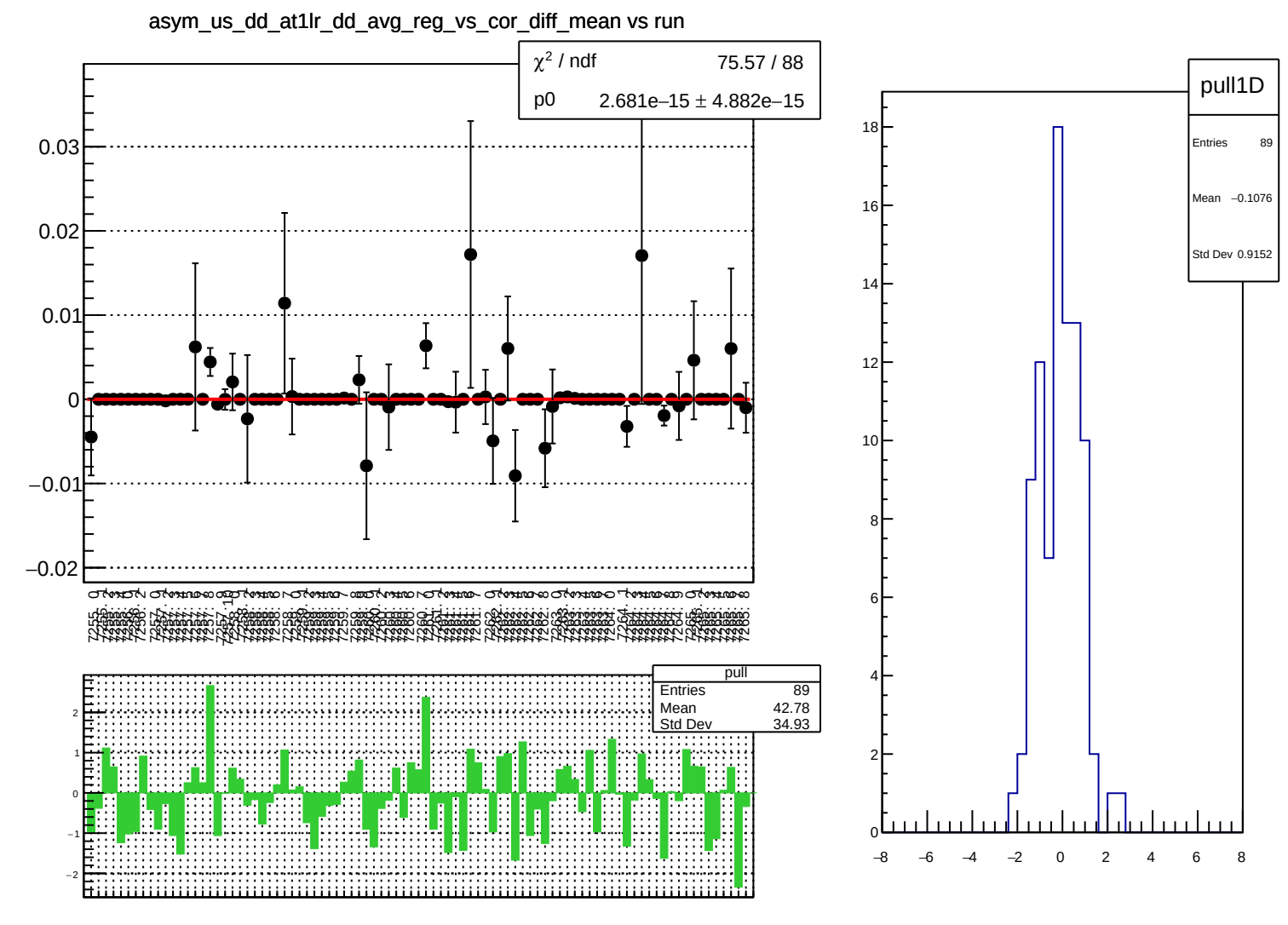

pull1D
Entries 89
Mean −0.01024
Std Dev 1.053

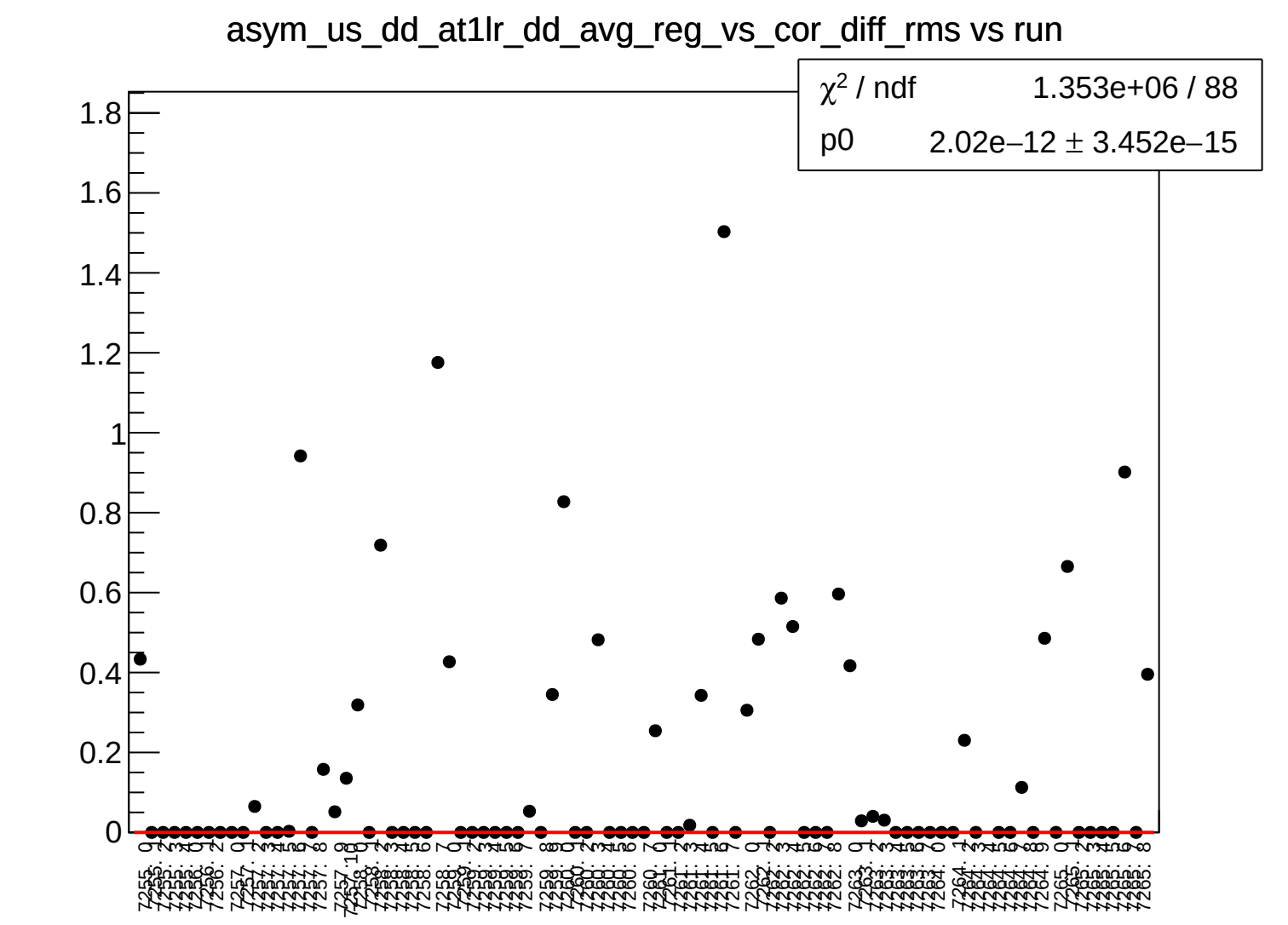

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 8587 / 88
p0 99.63 ± 0.07672
120
115
110
105
100
95
90
85


asym_us_dd_at1lr_dd_avg_mean vs run
χ^2 / ndf 77.21 / 88
p0 −263.2 ± 2366
×10^3
pull
Entries 89
Mean −100.1
Std Dev 0

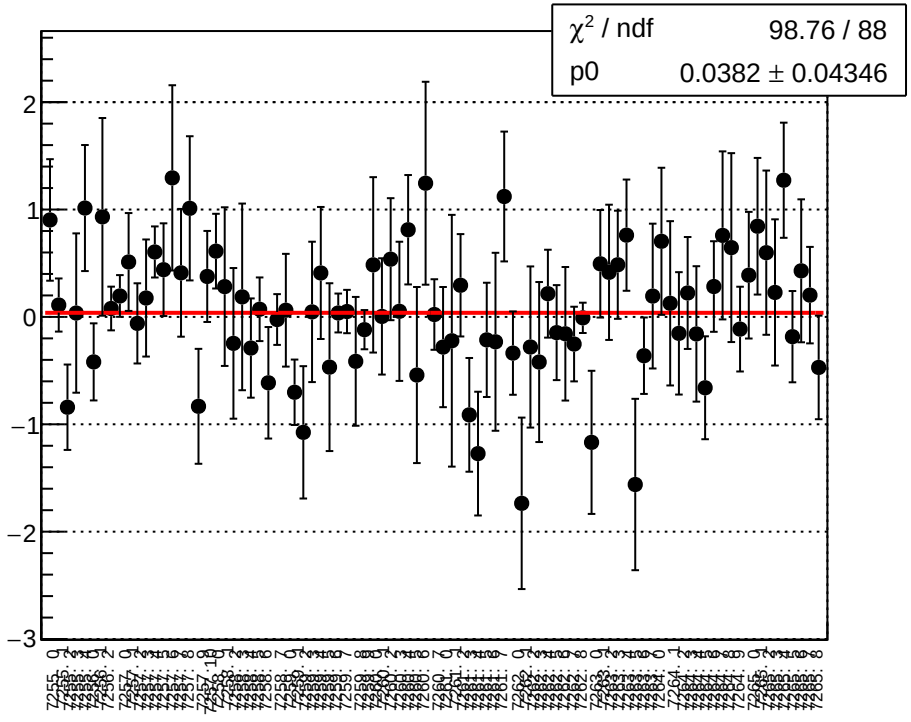

pull1D
Entries 89
Mean −0.01149
Std Dev 0.9313

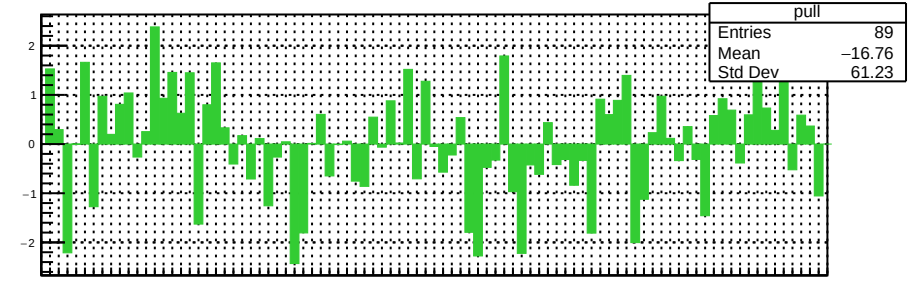

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 76.68 / 88
p0 2178 ± 1.673
2240
2220
2200
2180
2160
2140

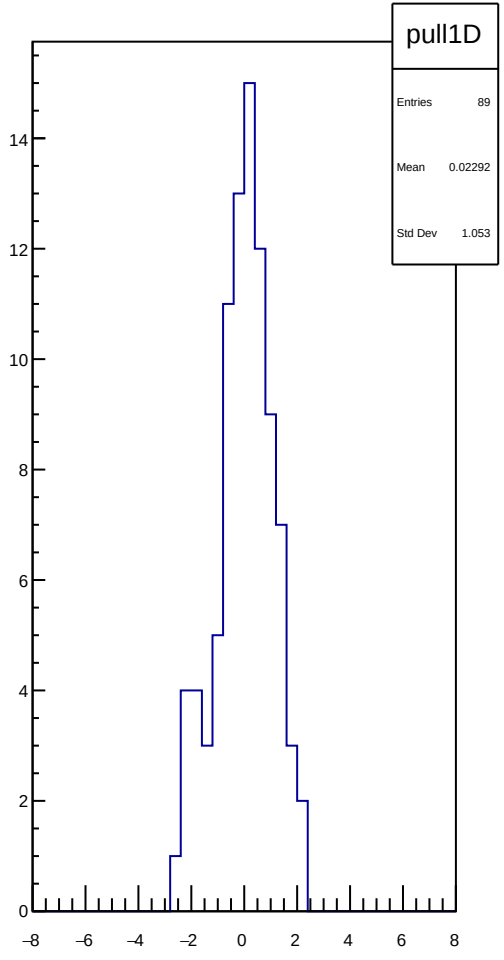

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.57 / 88
p0 2.681e−15 ± 4.882e−15
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 42.78
Std Dev 34.93
pull1D
Entries 89
Mean −0.1076
Std Dev 0.9152
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

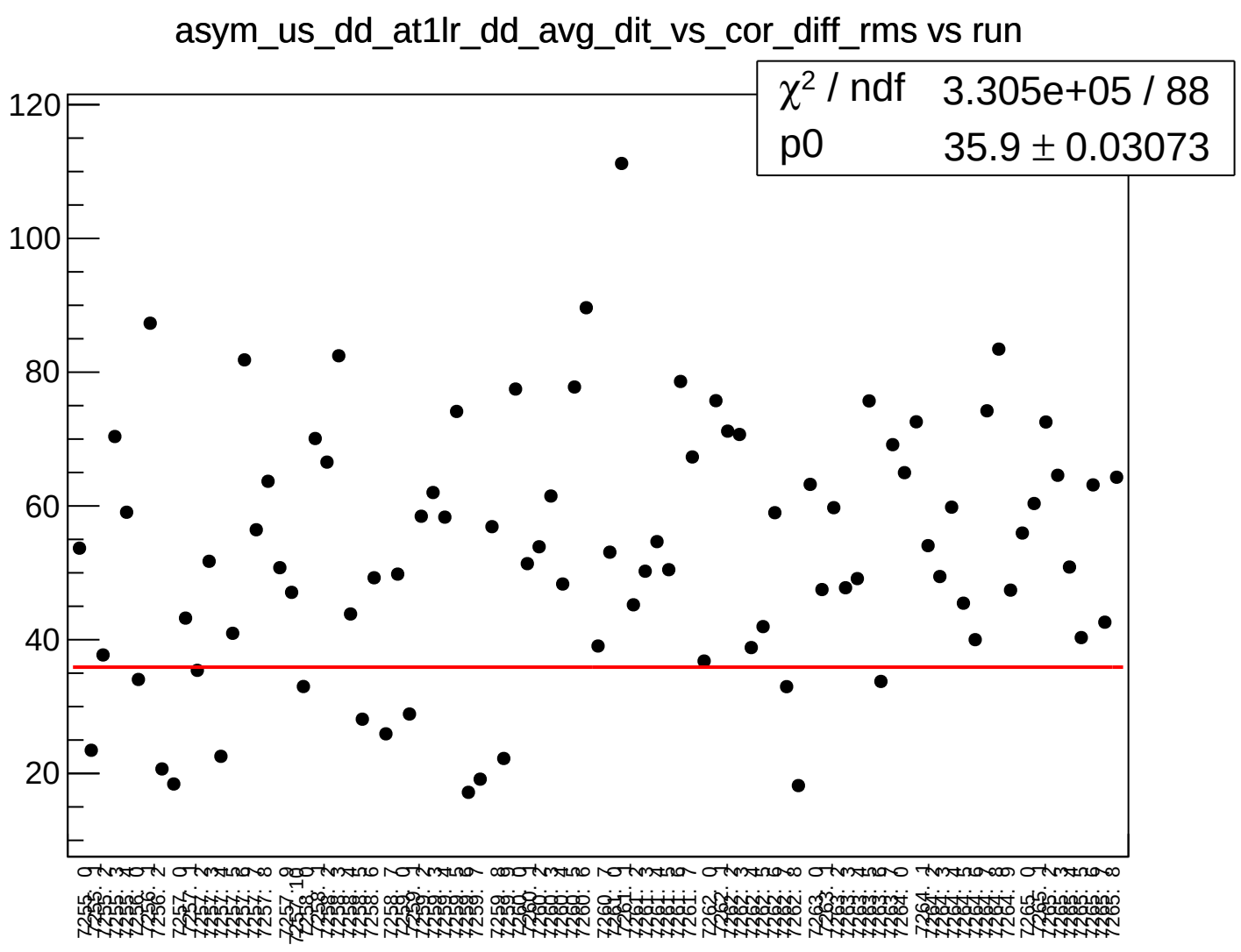

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.353e+06 / 88
p0 2.02e−12 ± 3.452e−15
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

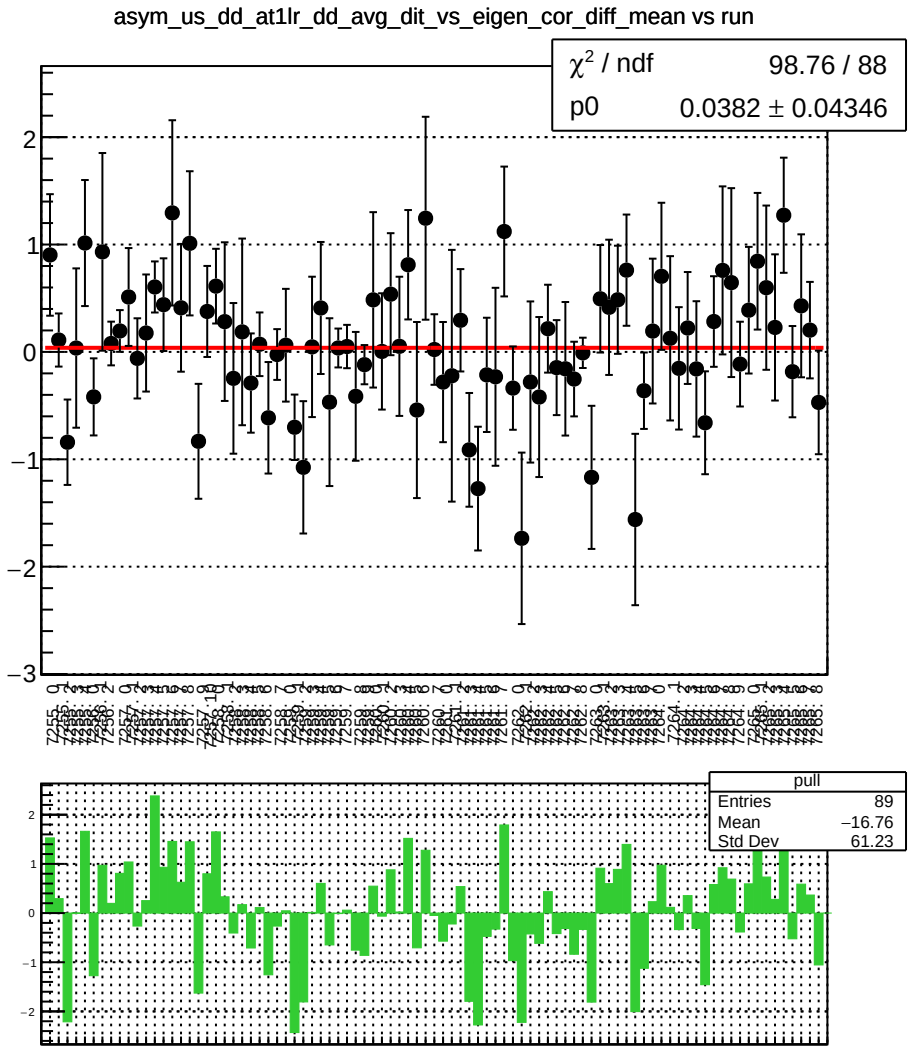
asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run

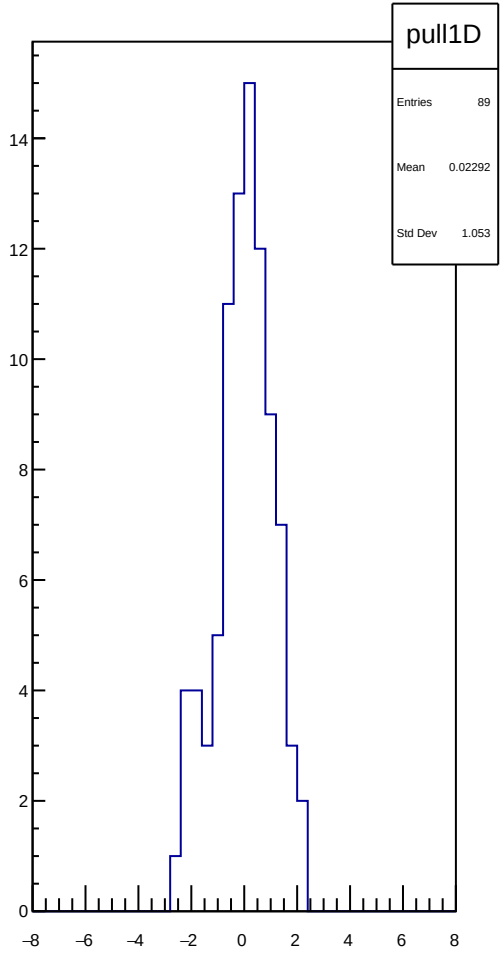


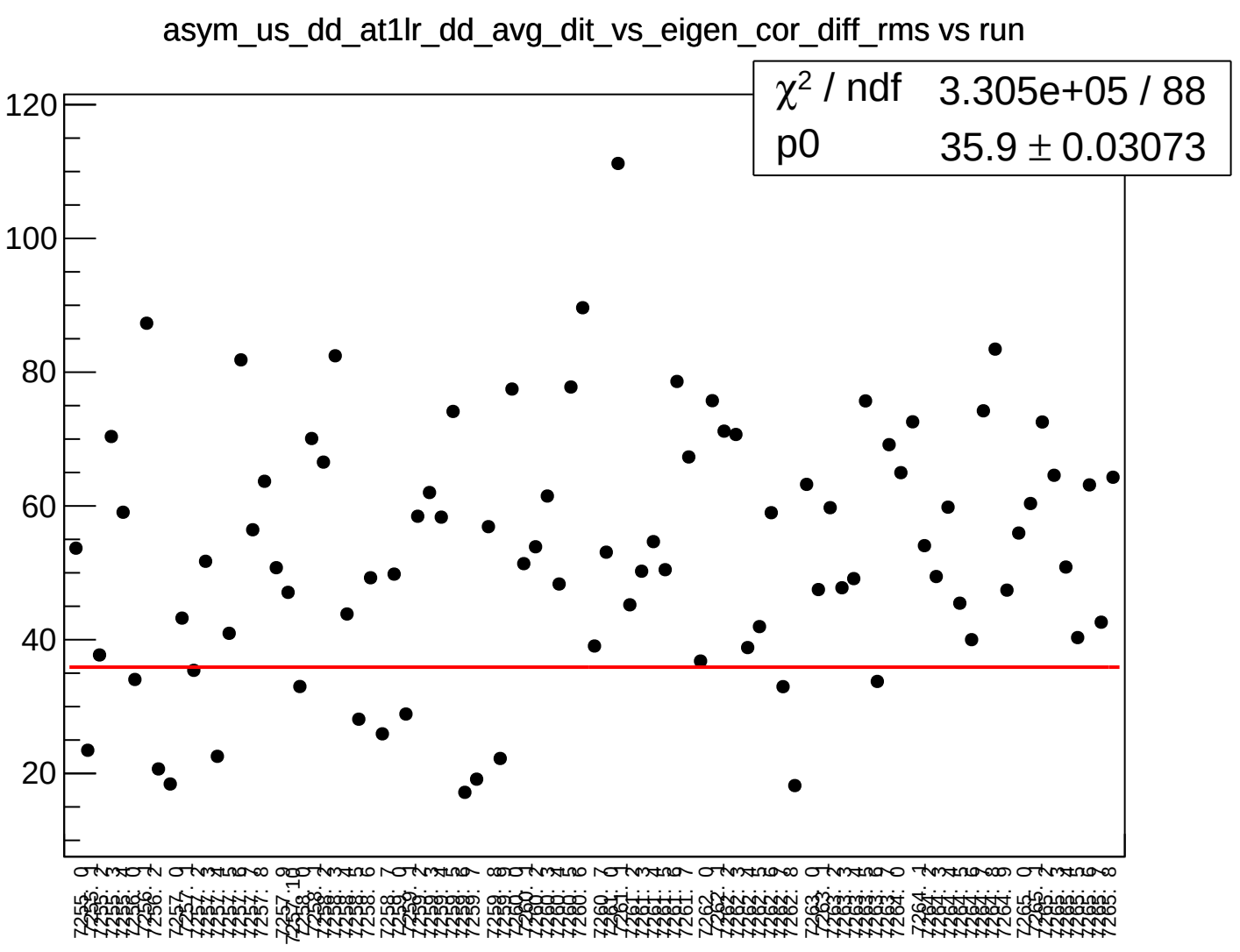


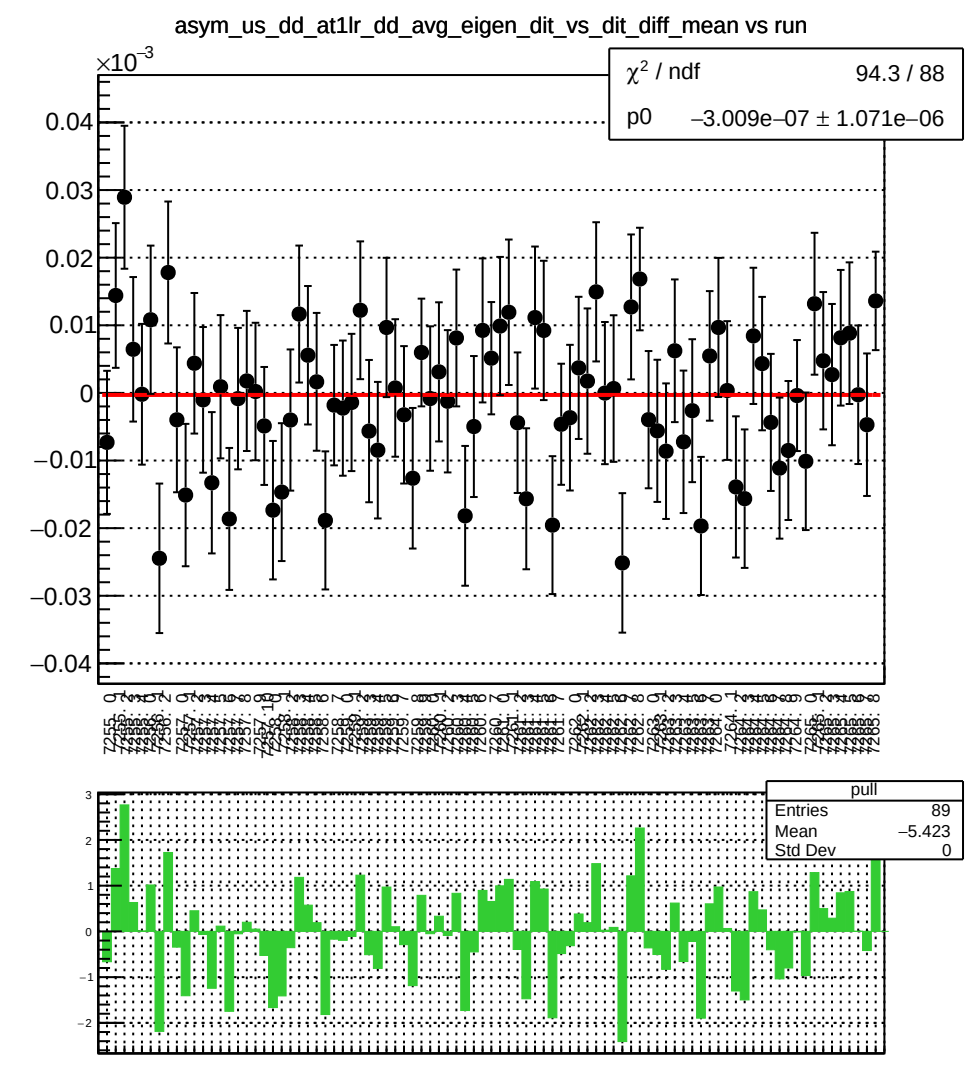


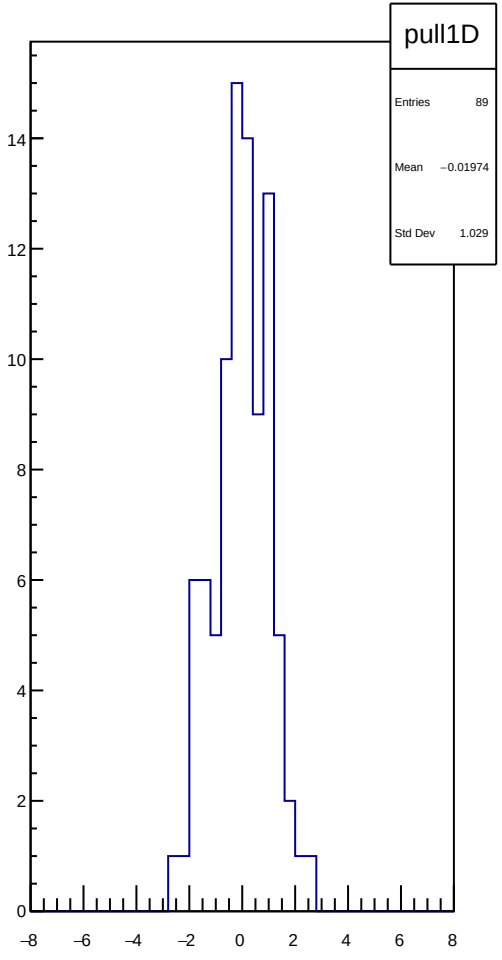

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.305e+05 / 88
p0 35.9 ± 0.03073
120
100
80
60
40
20

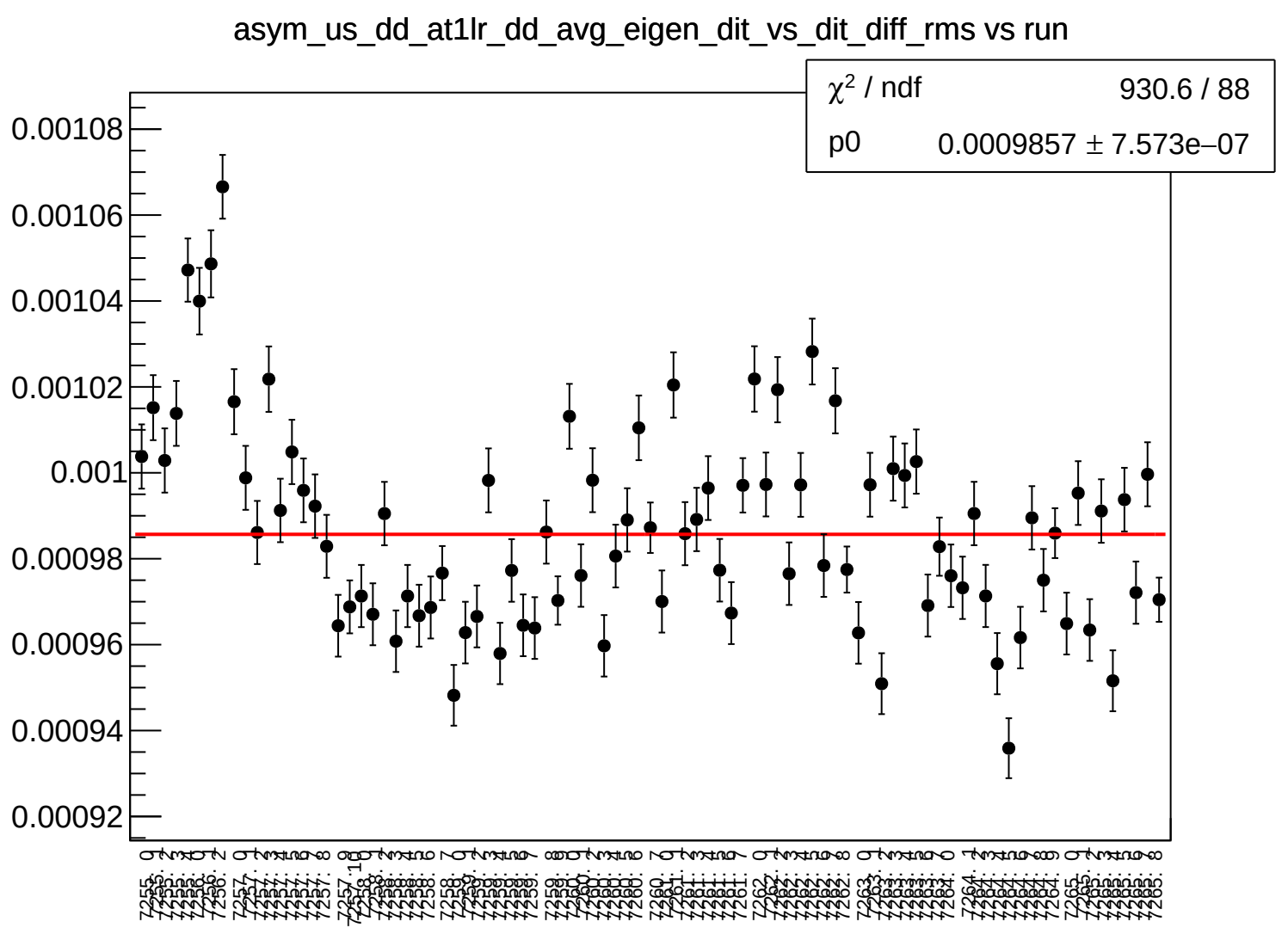

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.76 / 88
p0 0.0382 ± 0.04346
pull
Entries 89
Mean −16.76
Std Dev 61.23

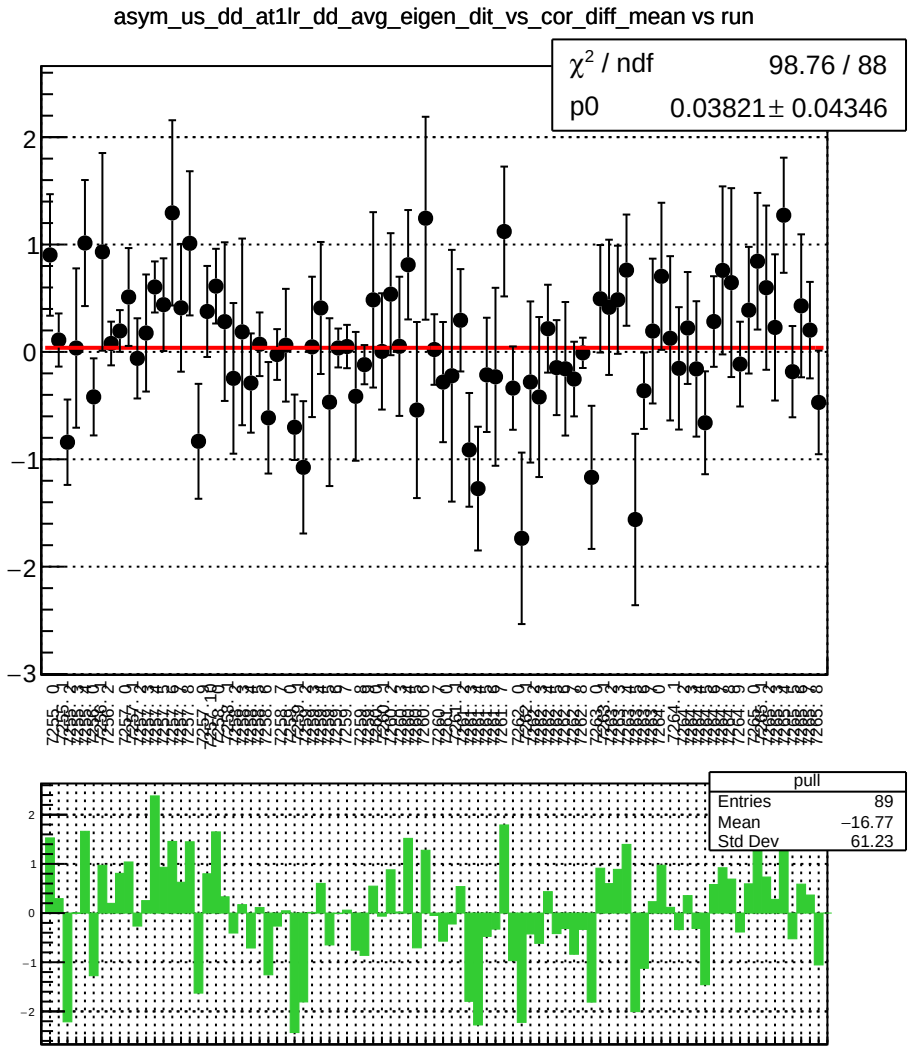

pull1D
Entries 89
Mean 0.02292
Std Dev 1.053

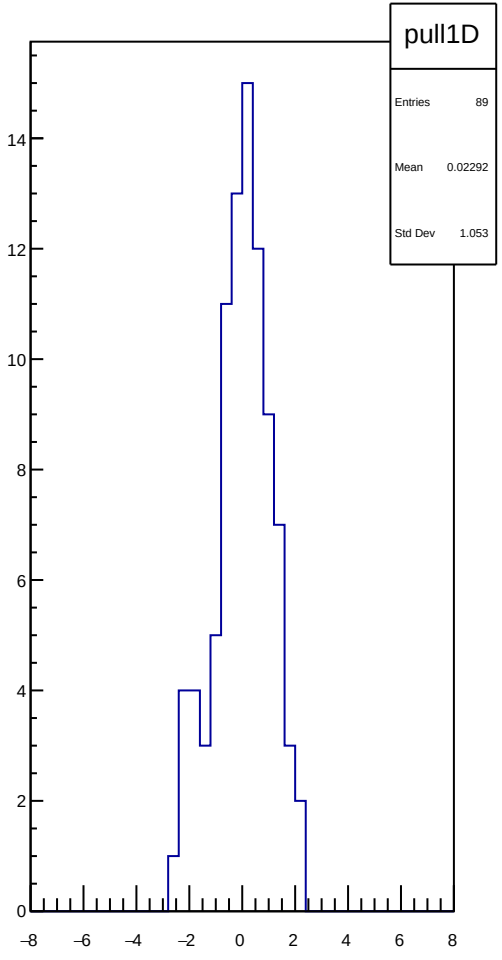

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.305e+05 / 88
p0 35.9 ± 0.03073
120
100
80
60
40
20

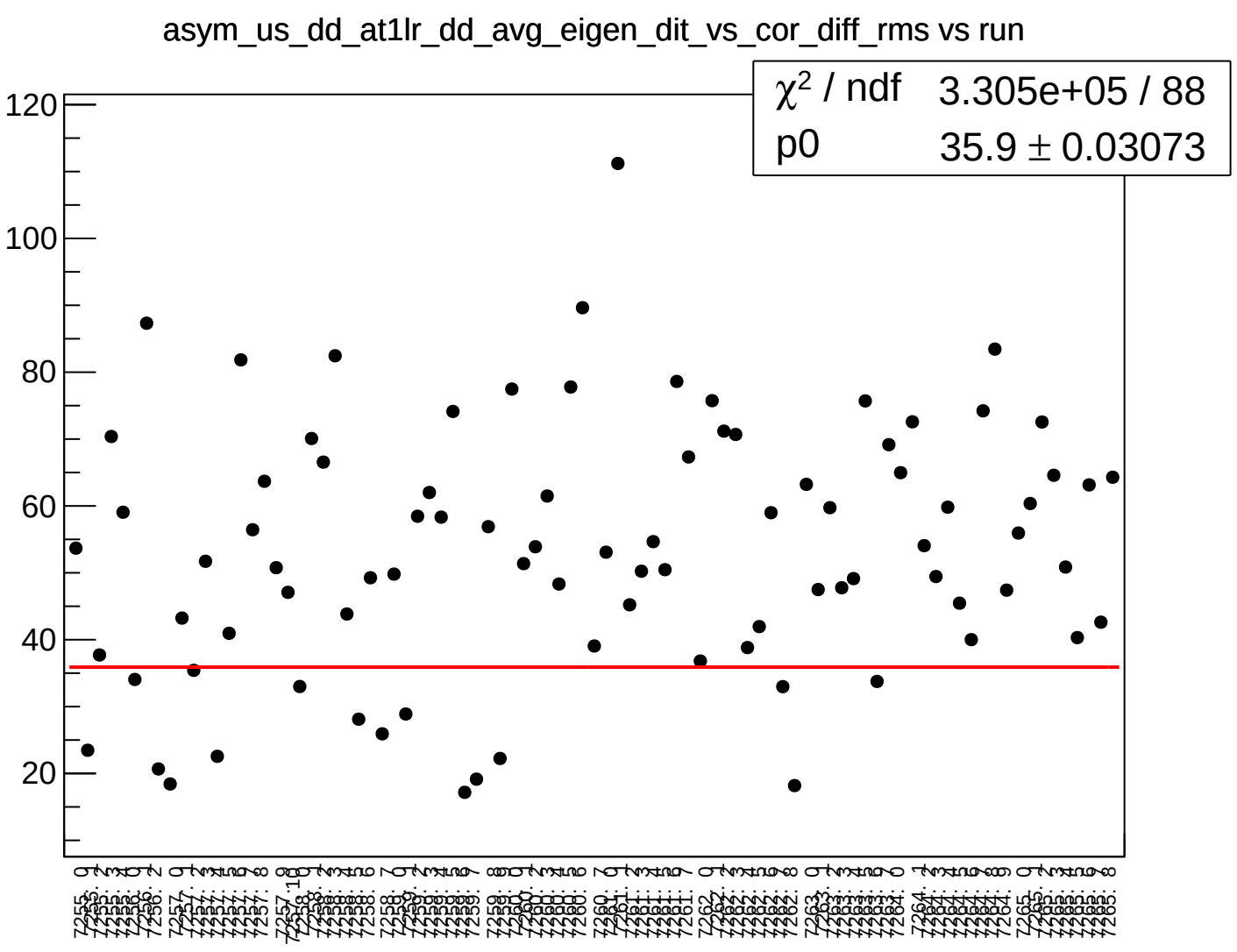

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.3 / 88
p0 −3.009e−07 ± 1.071e−06
pull
Entries 89
Mean −5.423
Std Dev 0

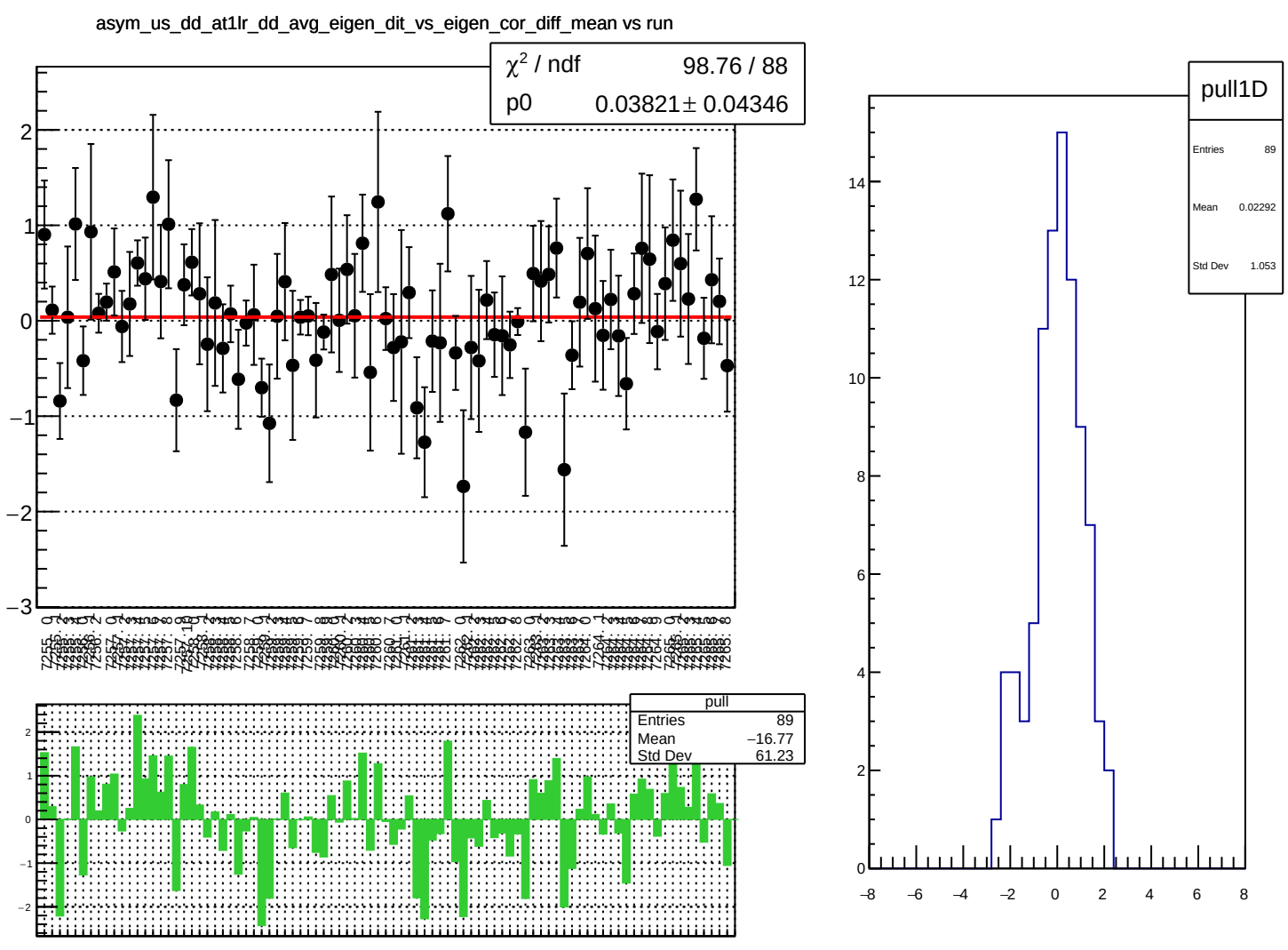

pull1D
Entries 89
Mean −0.01974
Std Dev 1.029

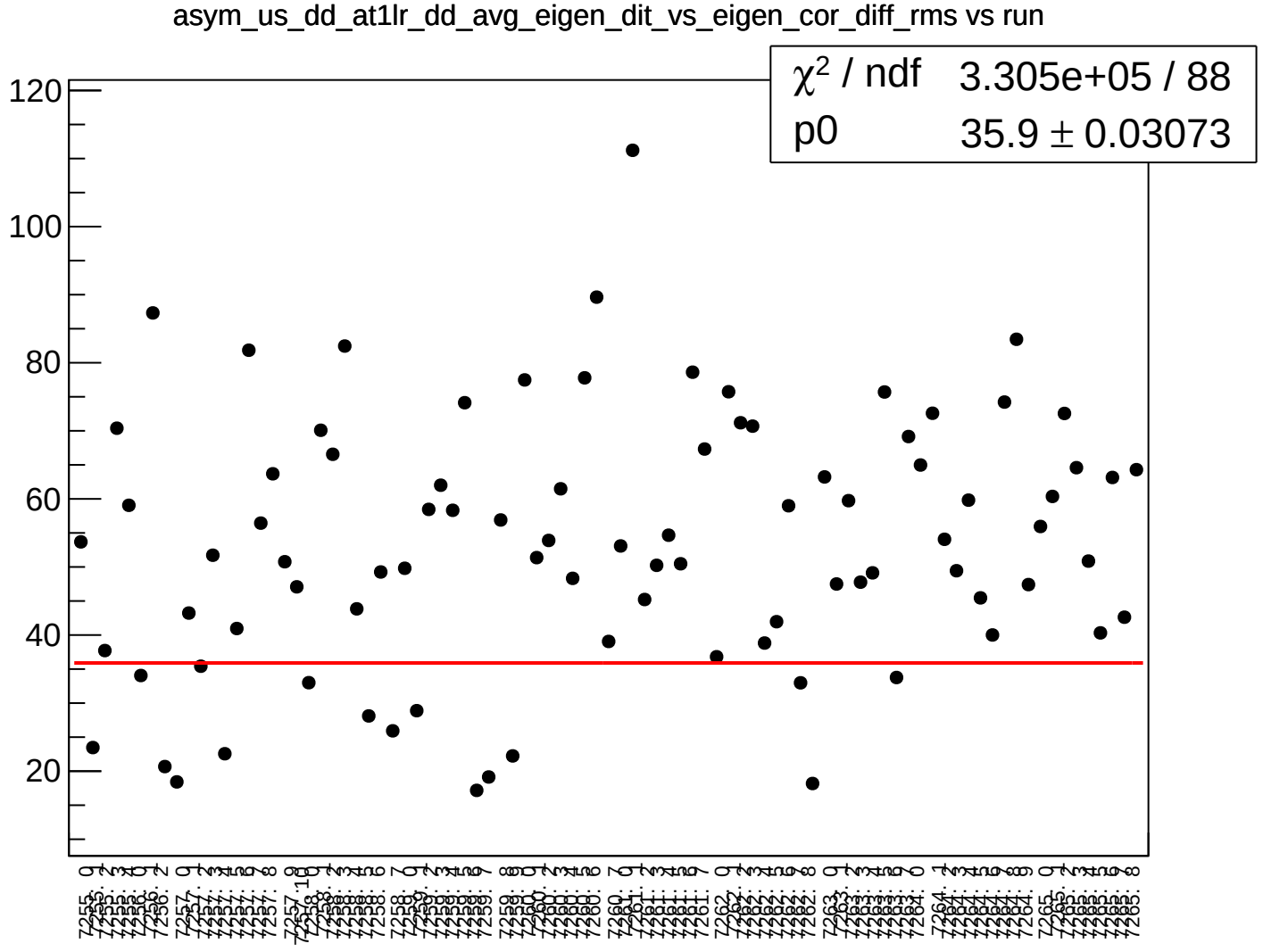

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 930.6 / 88
p0 0.0009857 ± 7.573e−07
0.00108
0.00106
0.00104
0.00102
0.001
0.00098
0.00096
0.00094
0.00092

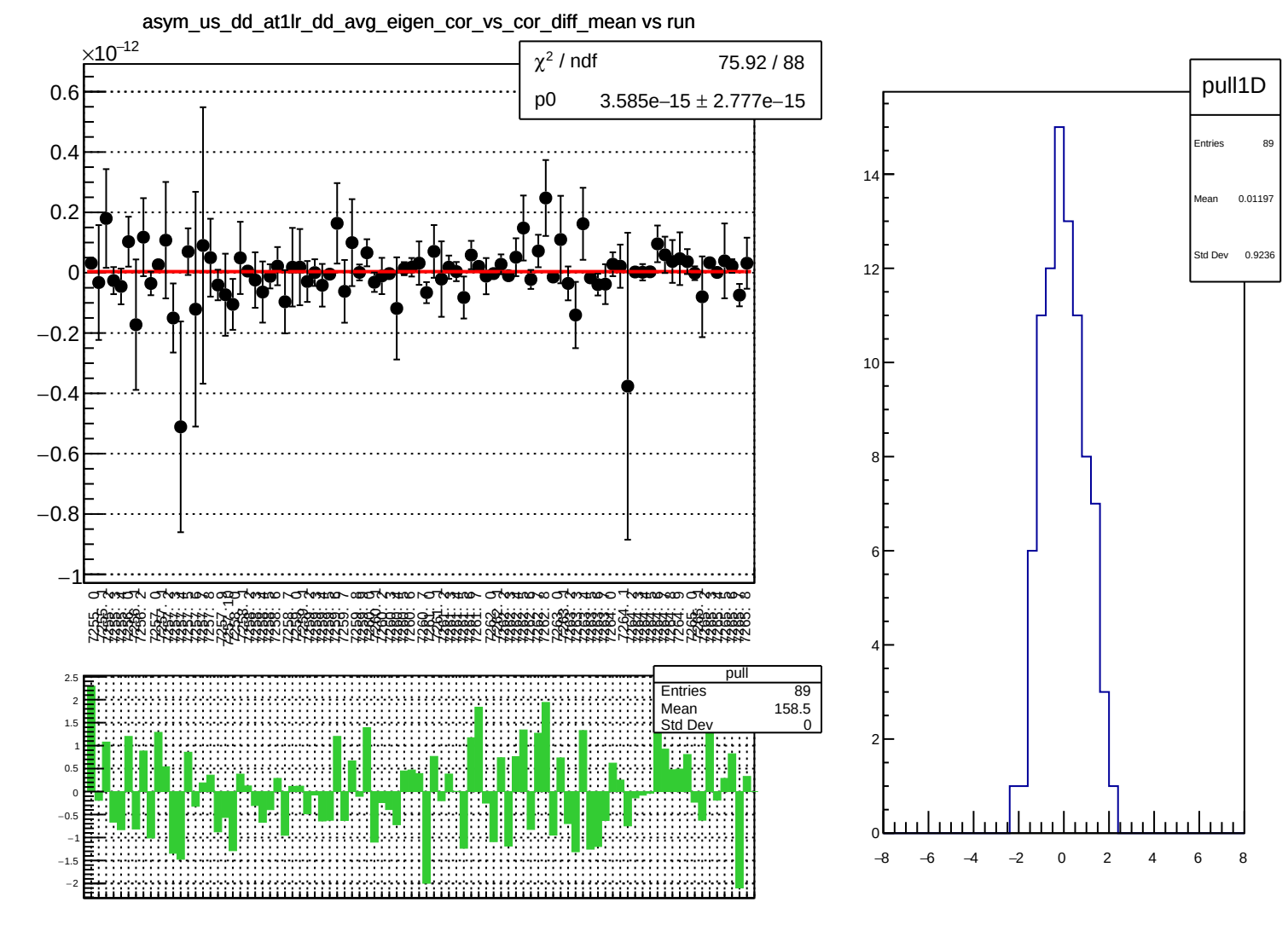

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.76 / 88
p0 0.03821 ± 0.04346
pull
Entries 89
Mean −16.77
Std Dev 61.23

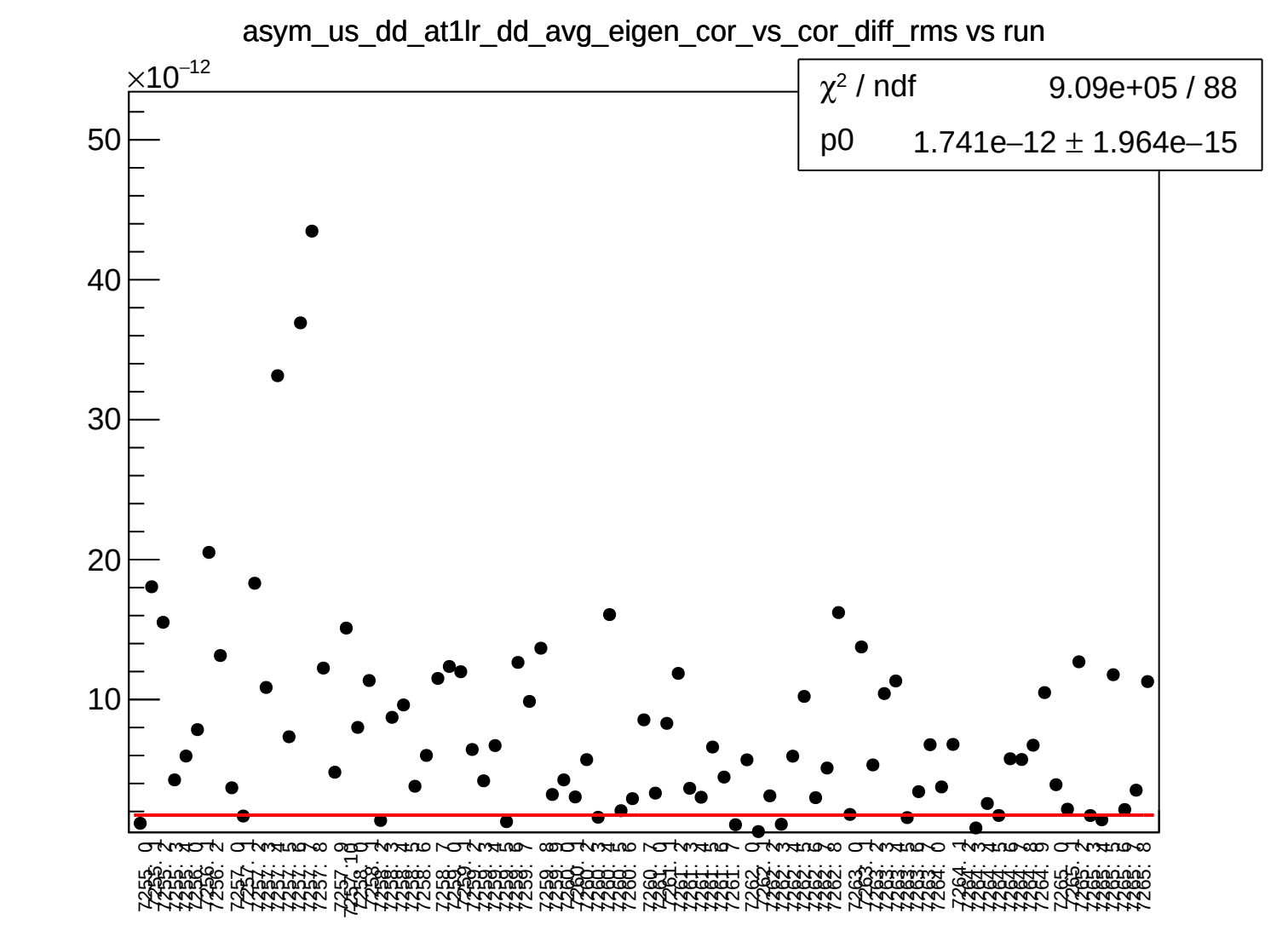

pull1D
Entries 89
Mean 0.02292
Std Dev 1.053

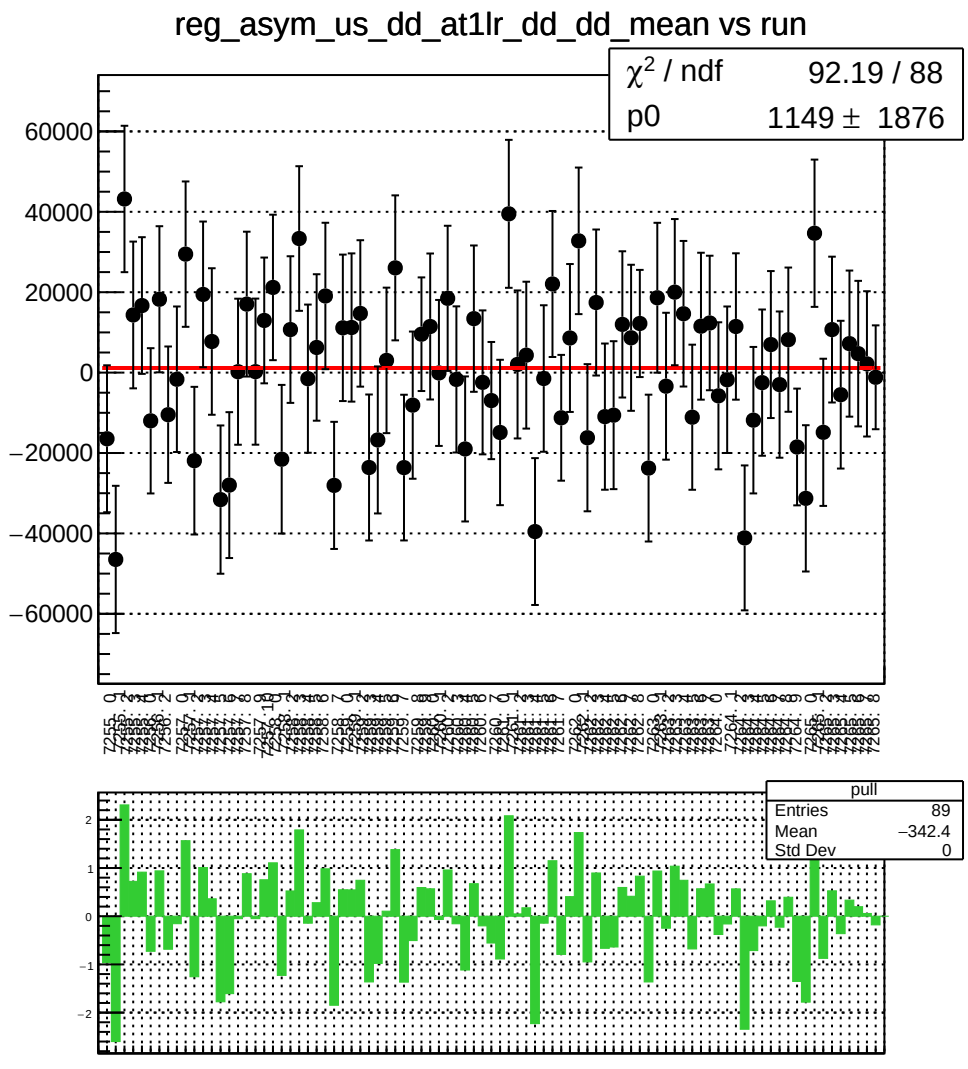

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.305e+05 / 88
p0 35.9 ± 0.03073
120
100
80
60
40
20

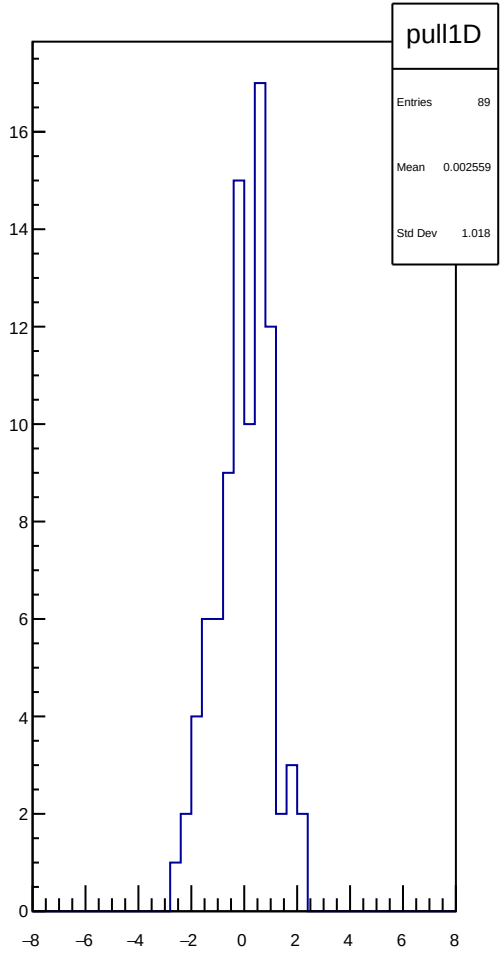

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.76 / 88
p0 0.03821 ± 0.04346
pull
Entries 89
Mean −16.77
Std Dev 61.23
pull1D
Entries 89
Mean 0.02292
Std Dev 1.053

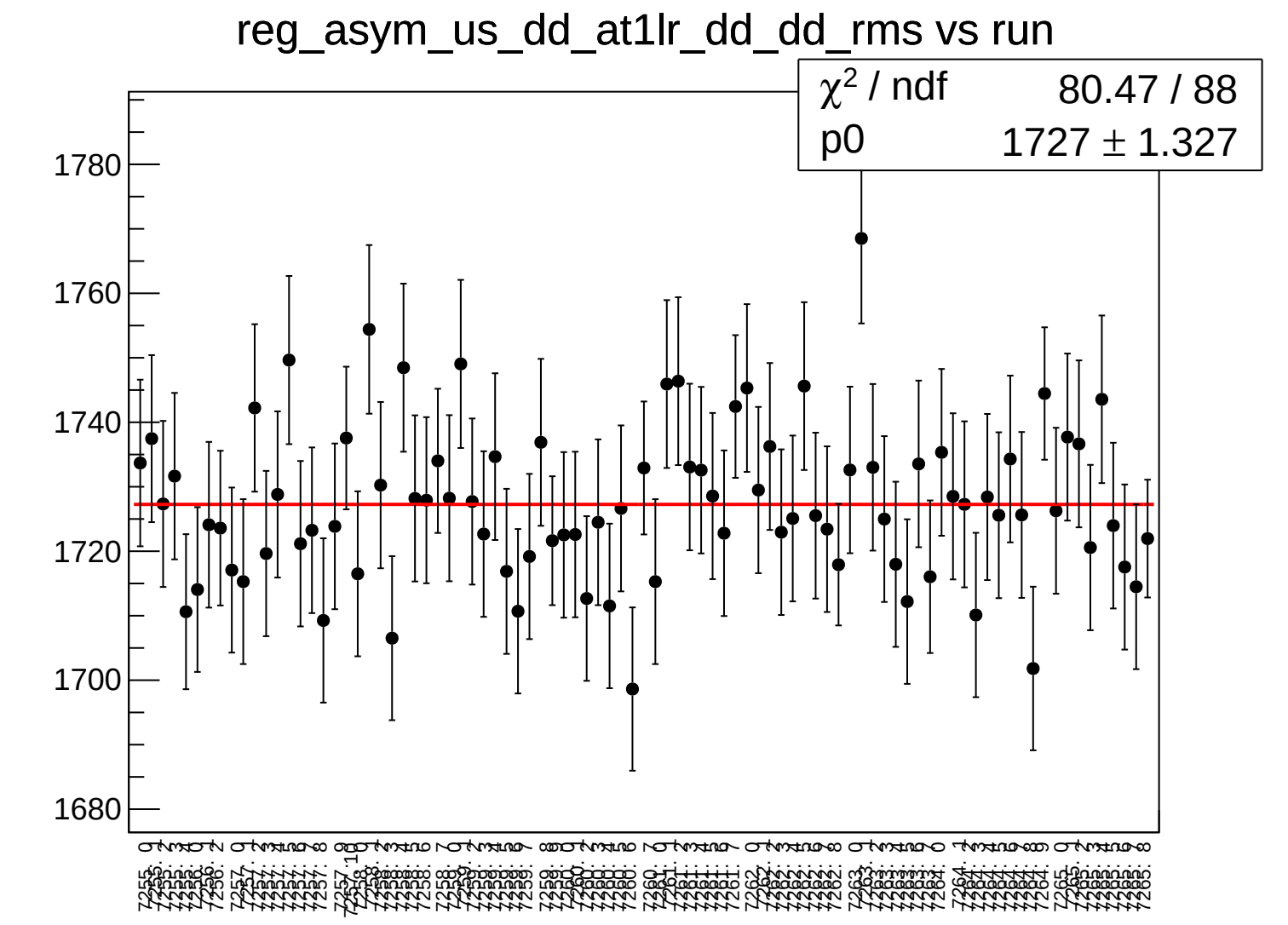

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.305e+05 / 88
p0 35.9 ± 0.03073
120
100
80
60
40
20

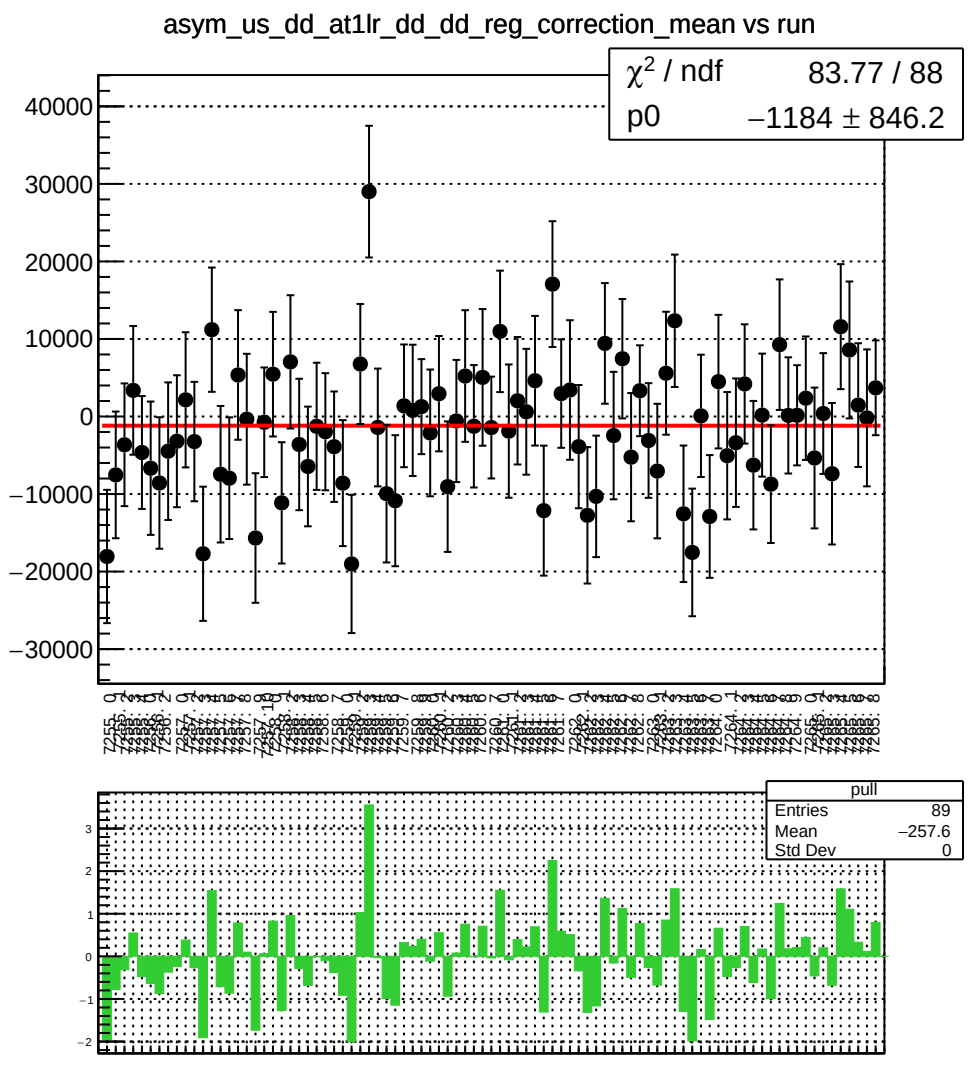

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.92 / 88
p0 3.585e−15 ± 2.777e−15
pull
Entries 89
Mean 158.5
Std Dev 0
pull1D
Entries 89
Mean 0.01197
Std Dev 0.9236

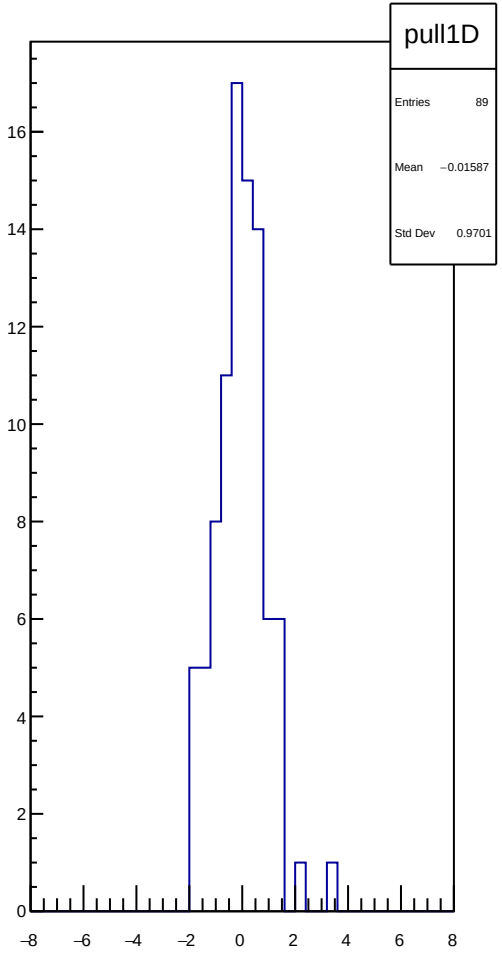

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.09e+05 / 88
p0 1.741e−12 ± 1.964e−15
50
40
30
20
10

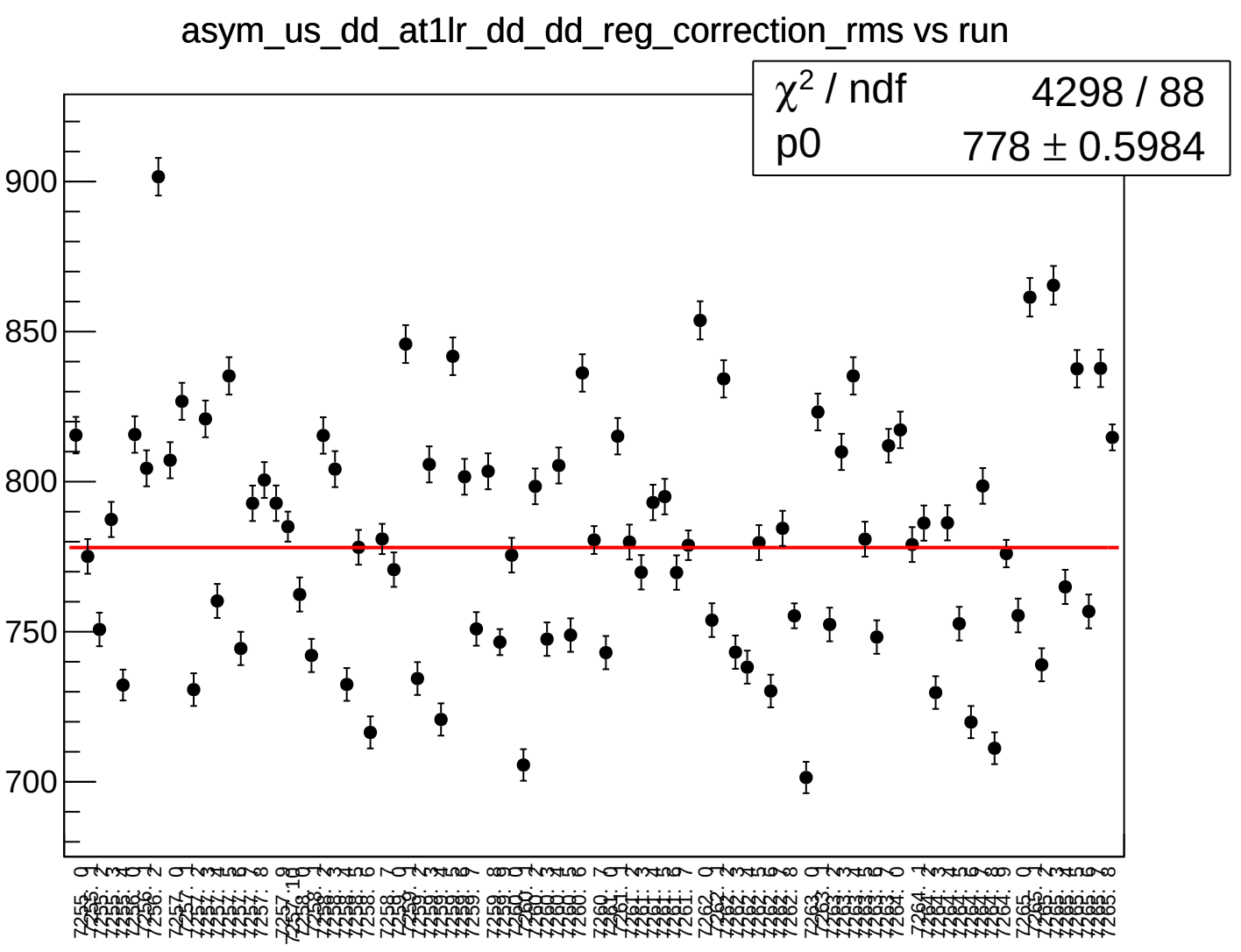

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 92.19 / 88
p0 1149 ± 1876
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −342.4
Std Dev 0
2
1
0
−1
−2

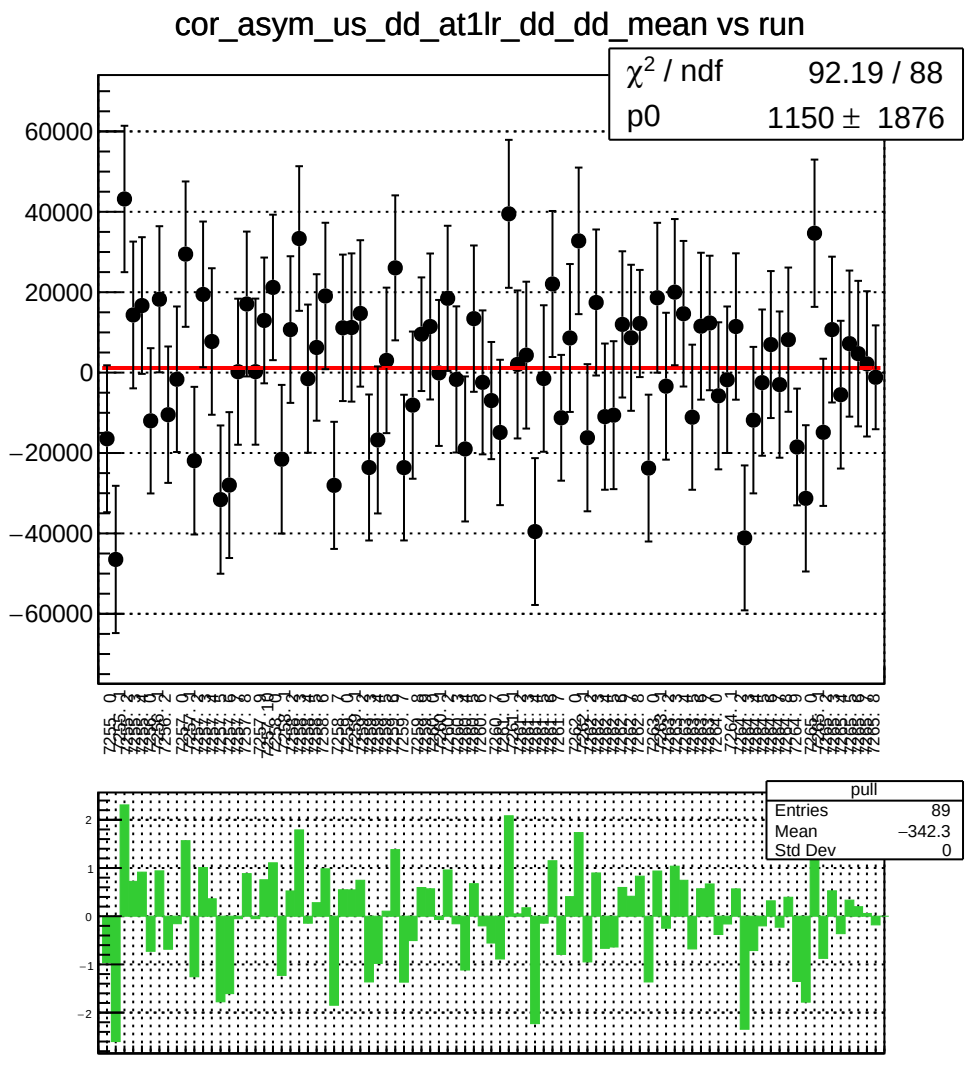

pull1D
Entries 89
Mean 0.002559
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

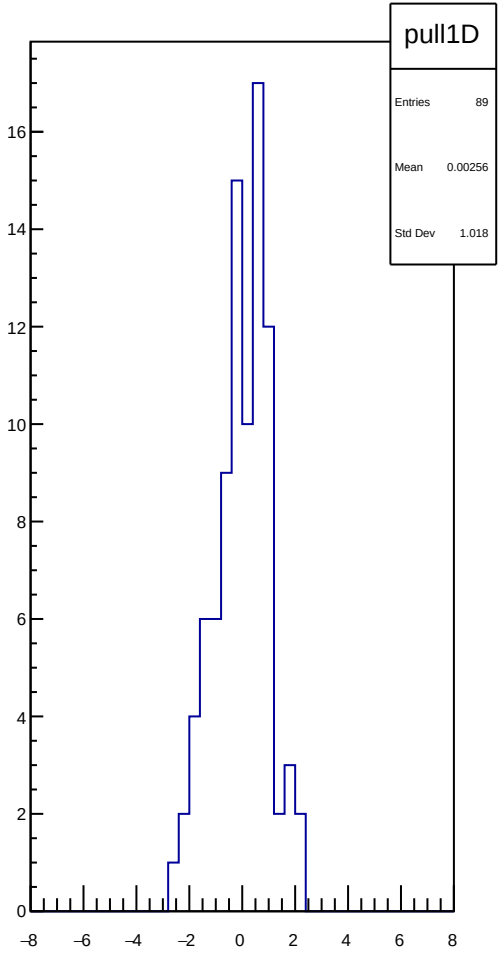

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 80.47 / 88
p0 1727 ± 1.327
1780
1760
1740
1720
1700
1680

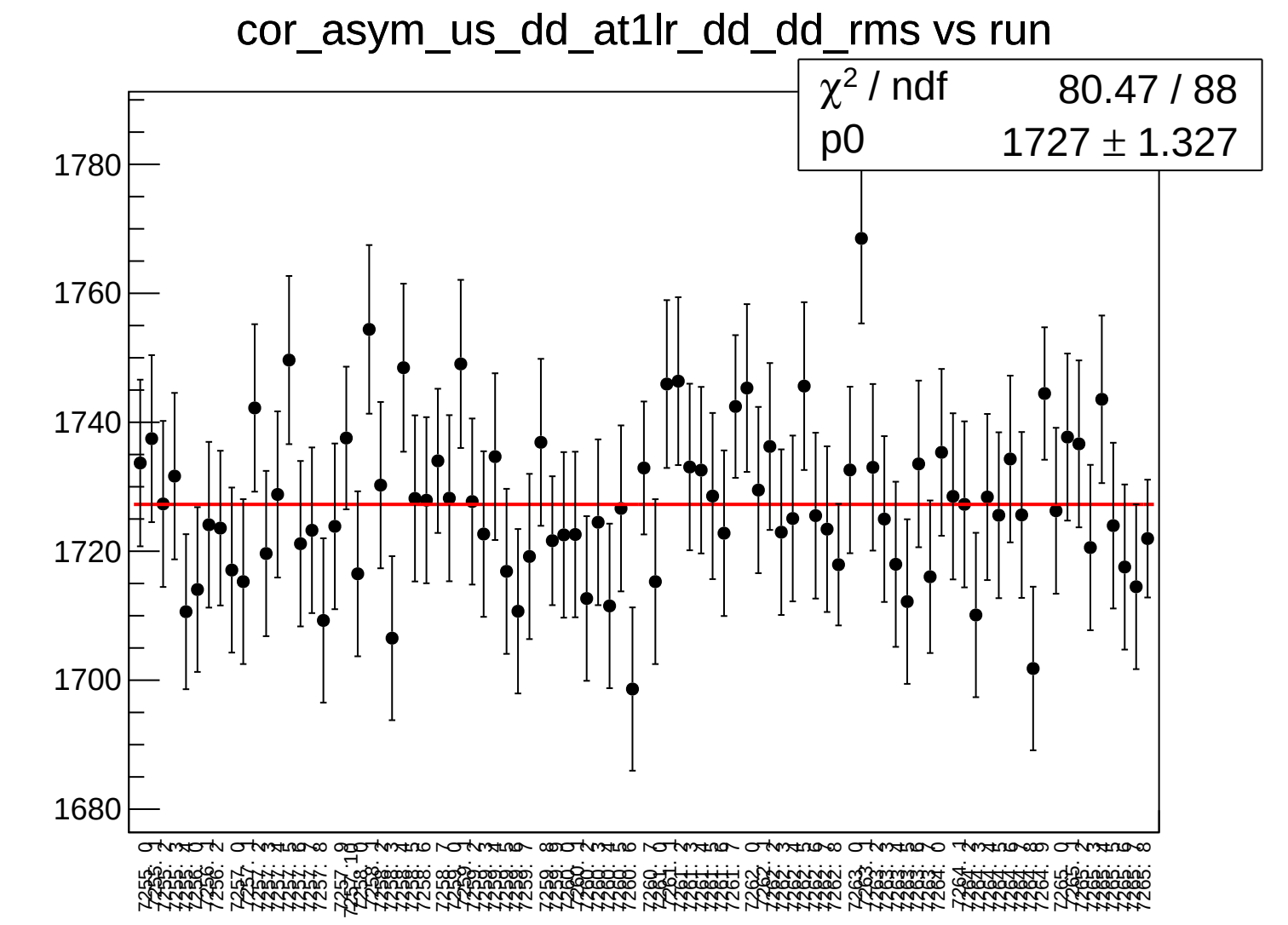

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 83.77 / 88
p0 −1184 ± 846.2
pull
Entries 89
Mean −257.6
Std Dev 0

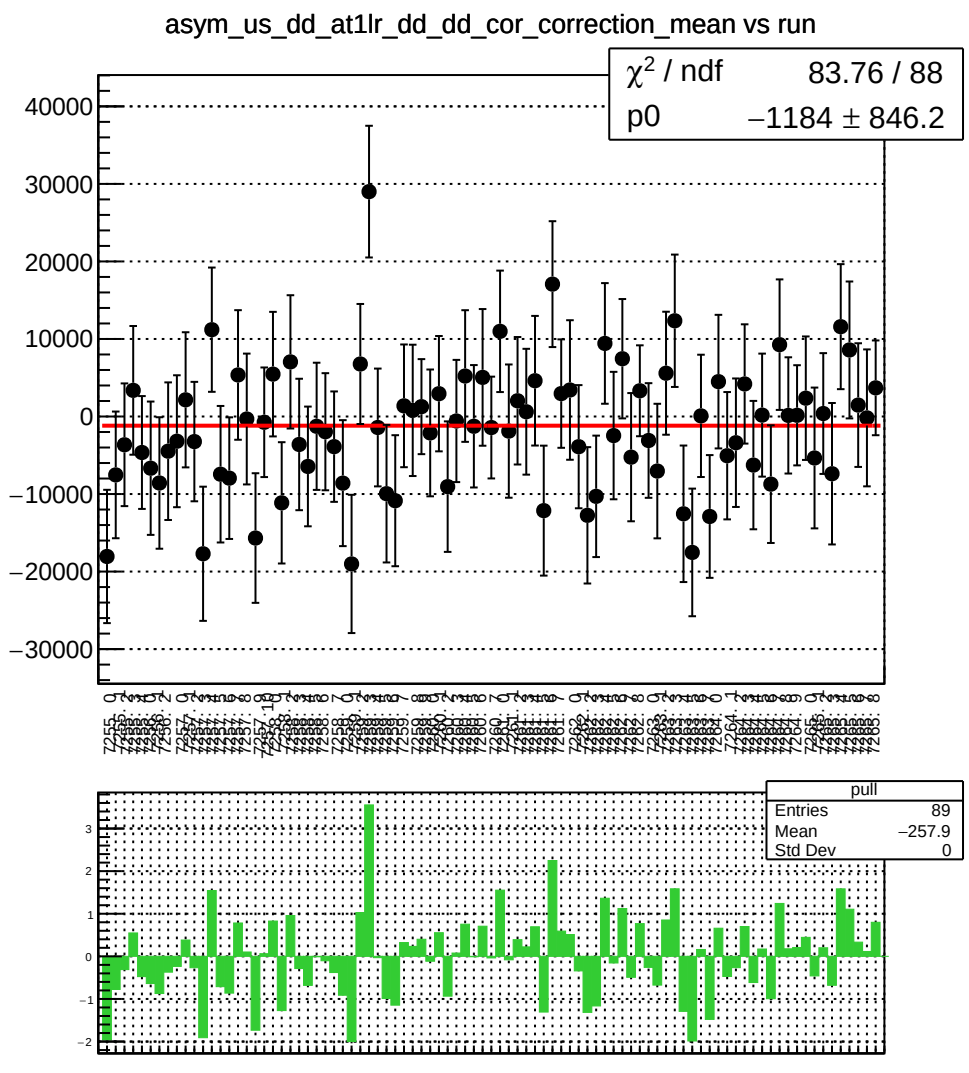

pull1D
Entries 89
Mean −0.01587
Std Dev 0.9701

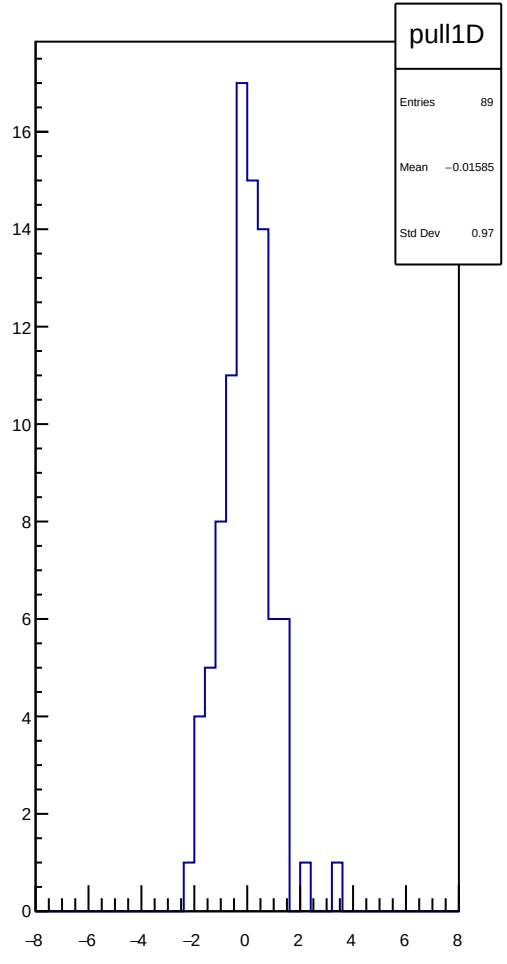

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 4298 / 88
p0 778 ± 0.5984
900
850
800
750
700

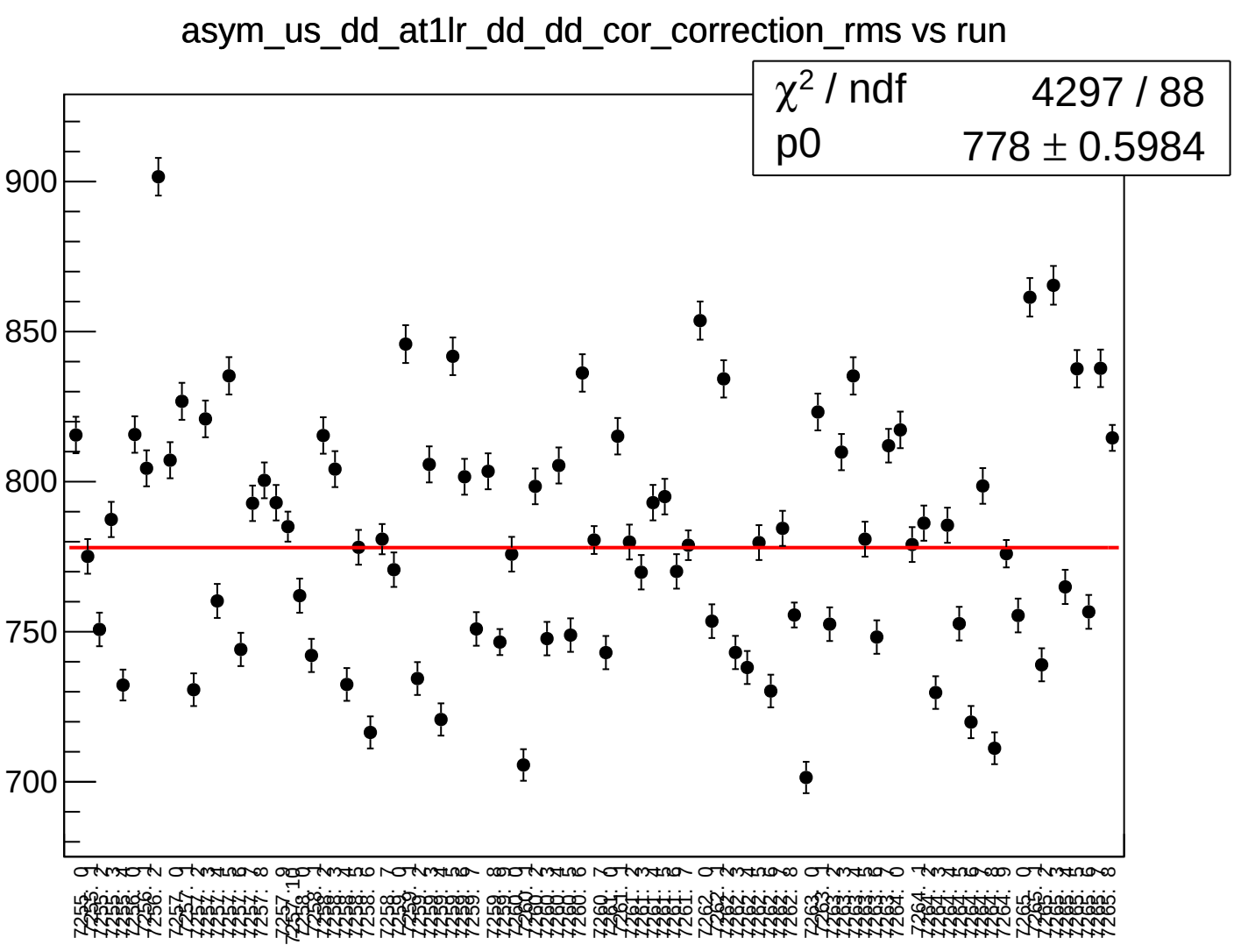

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 92.19 / 88
p0 1150 ± 1876
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −342.3
Std Dev 0
2
1
0
−1
−2

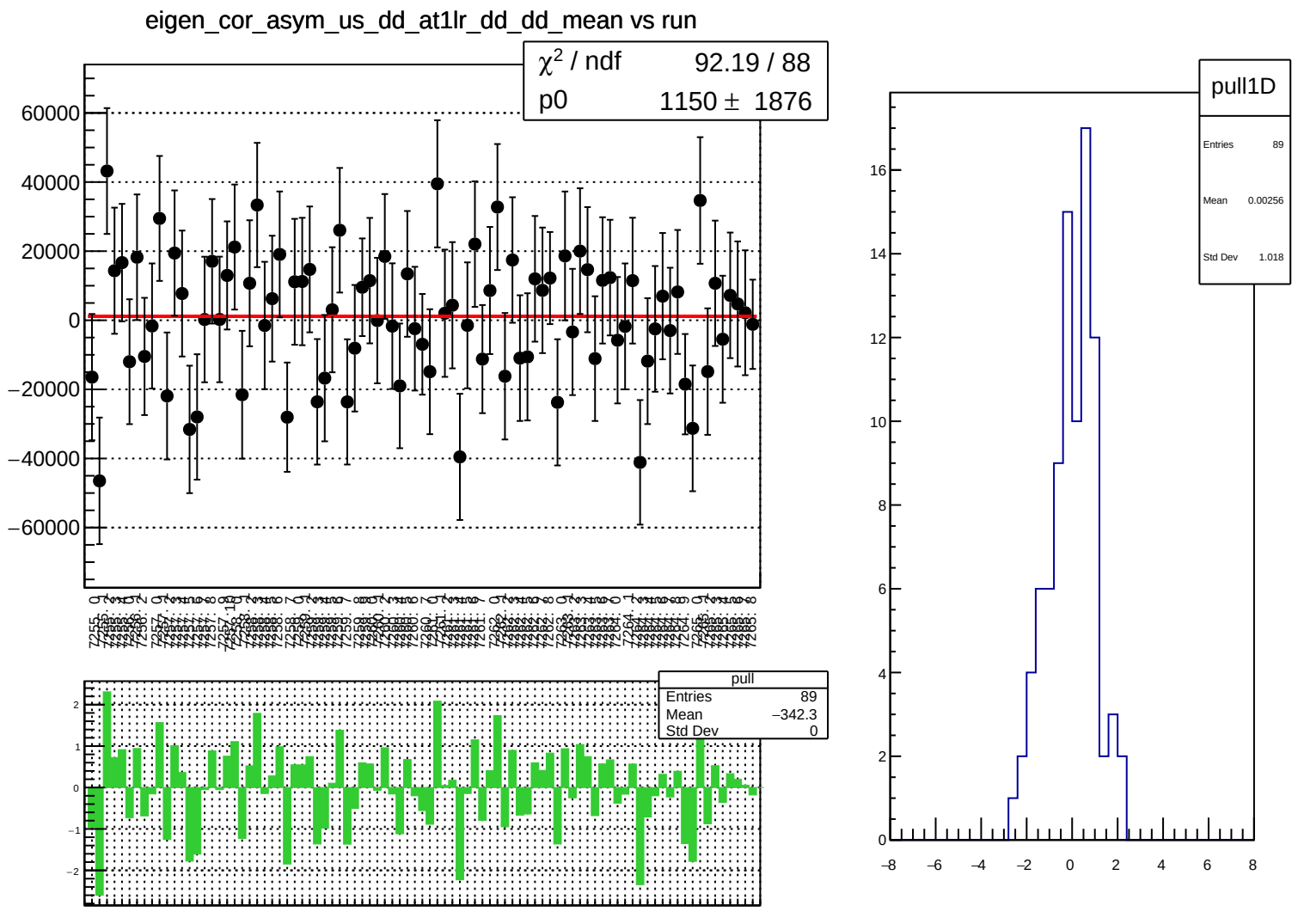

pull1D
Entries 89
Mean 0.00256
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

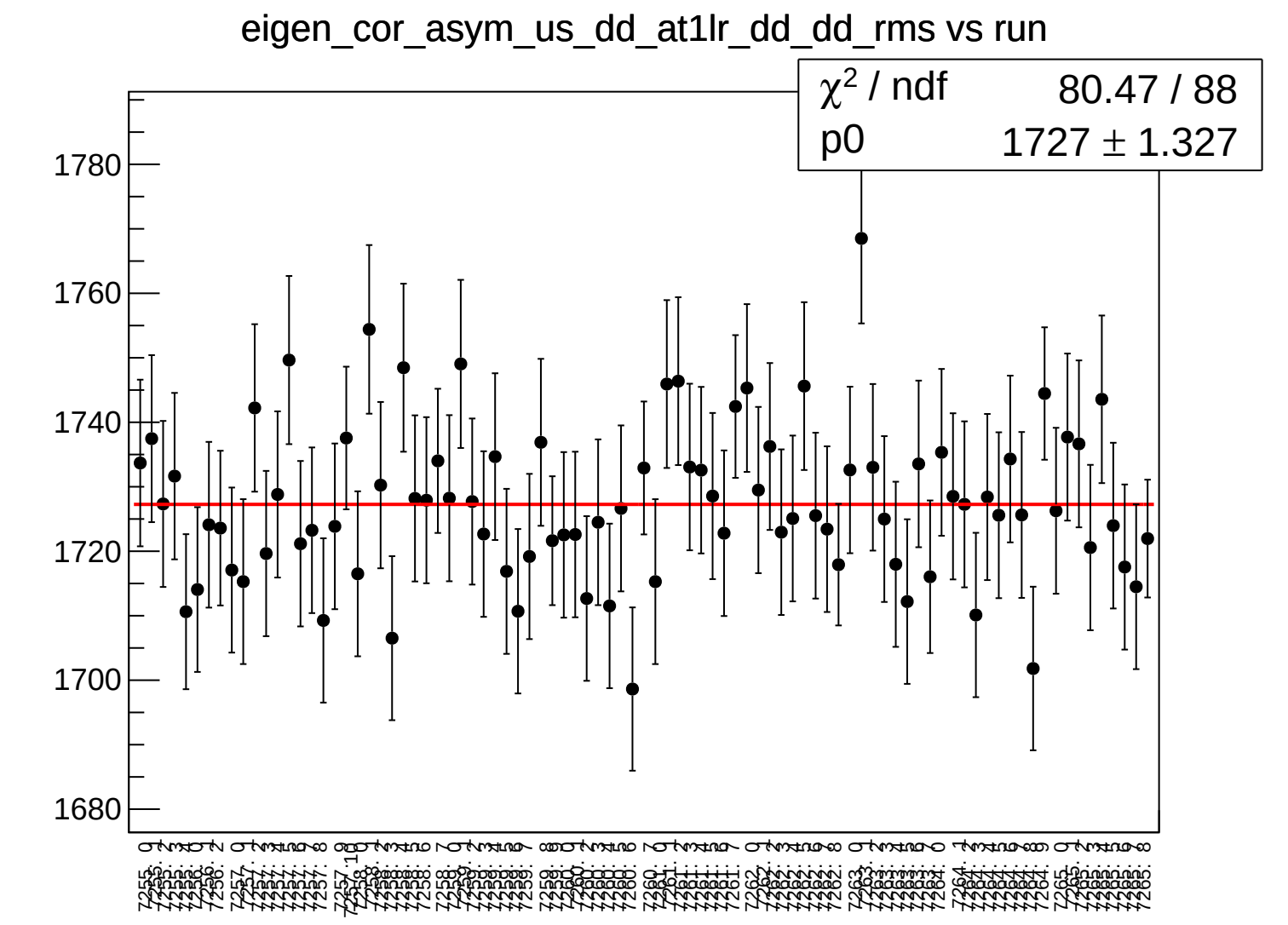

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 80.47 / 88
p0 1727 ± 1.327
1780
1760
1740
1720
1700
1680

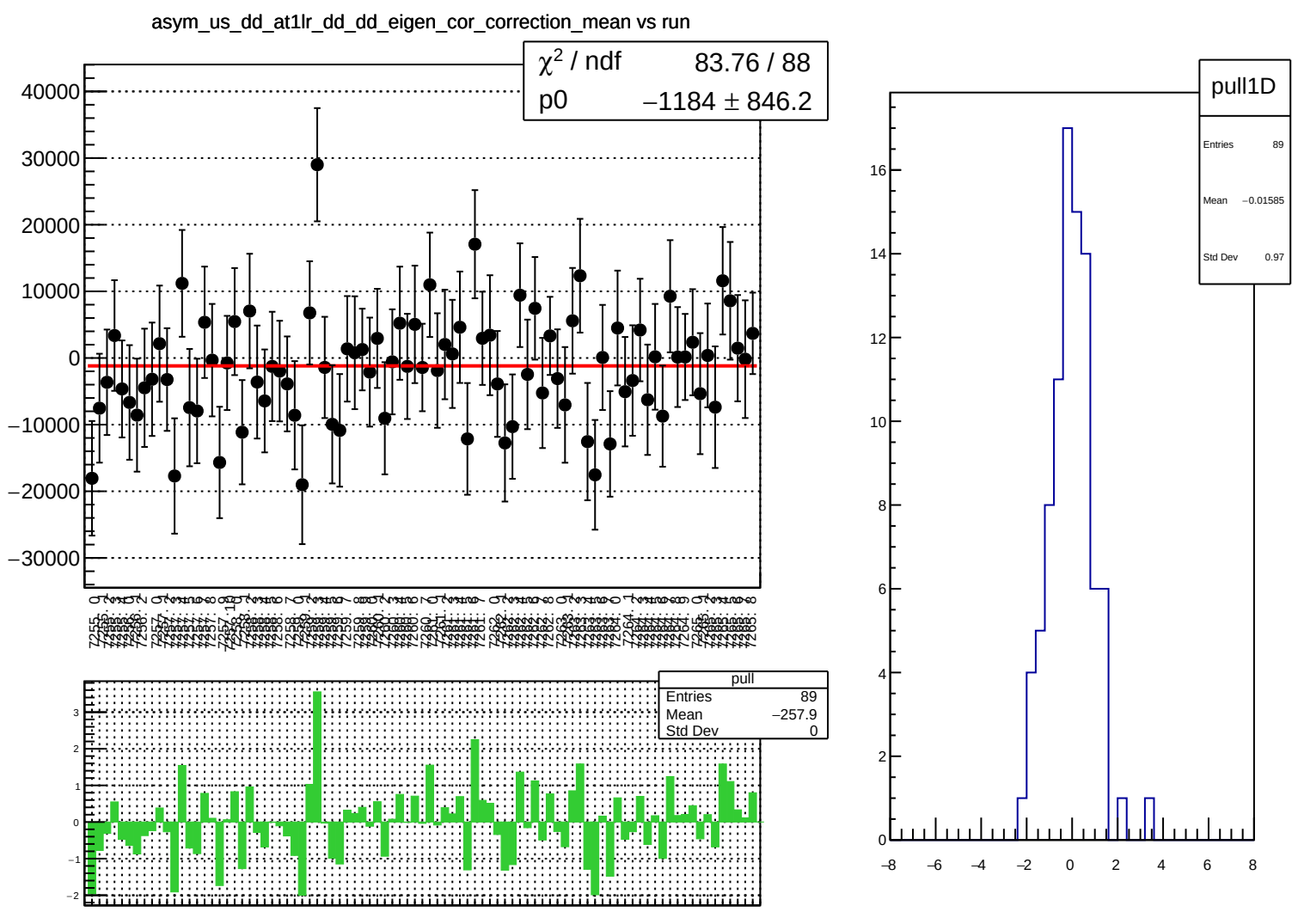

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 83.76 / 88
p0 −1184 ± 846.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −257.9
Std Dev 0
3
2
1
0
−1
−2

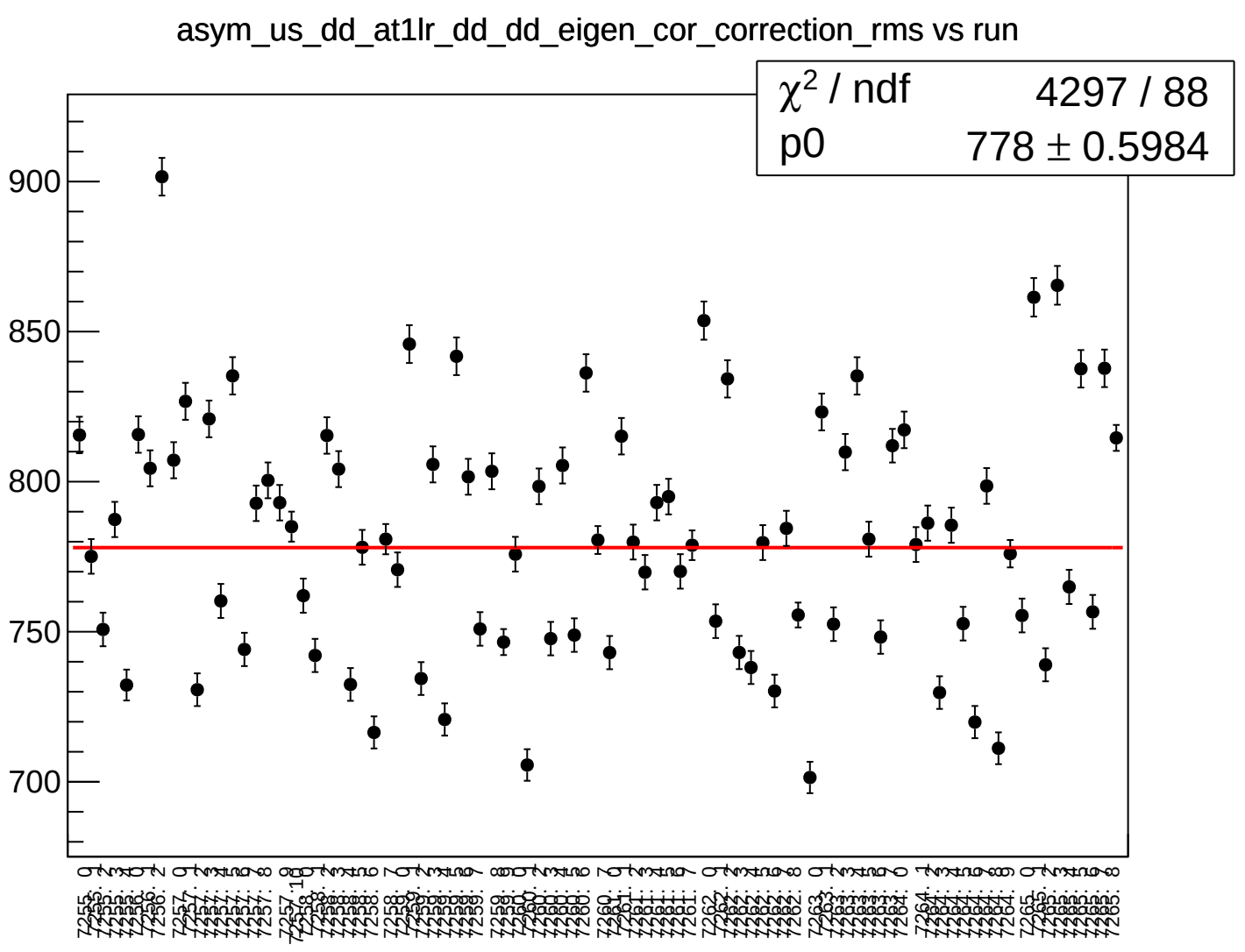

pull1D
Entries 89
Mean −0.01585
Std Dev 0.97
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

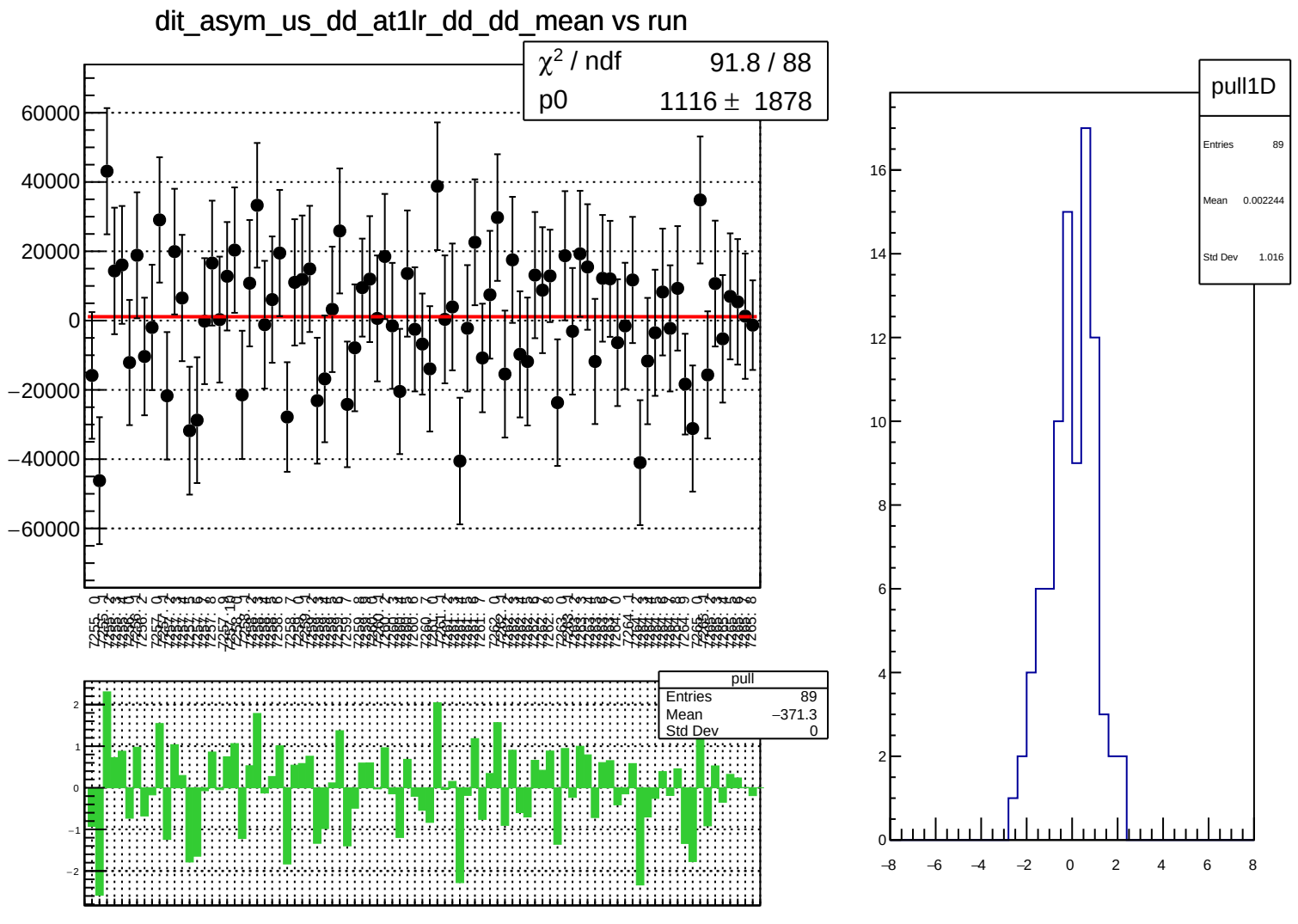

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 4297 / 88
p0 778 ± 0.5984
900
850
800
750
700

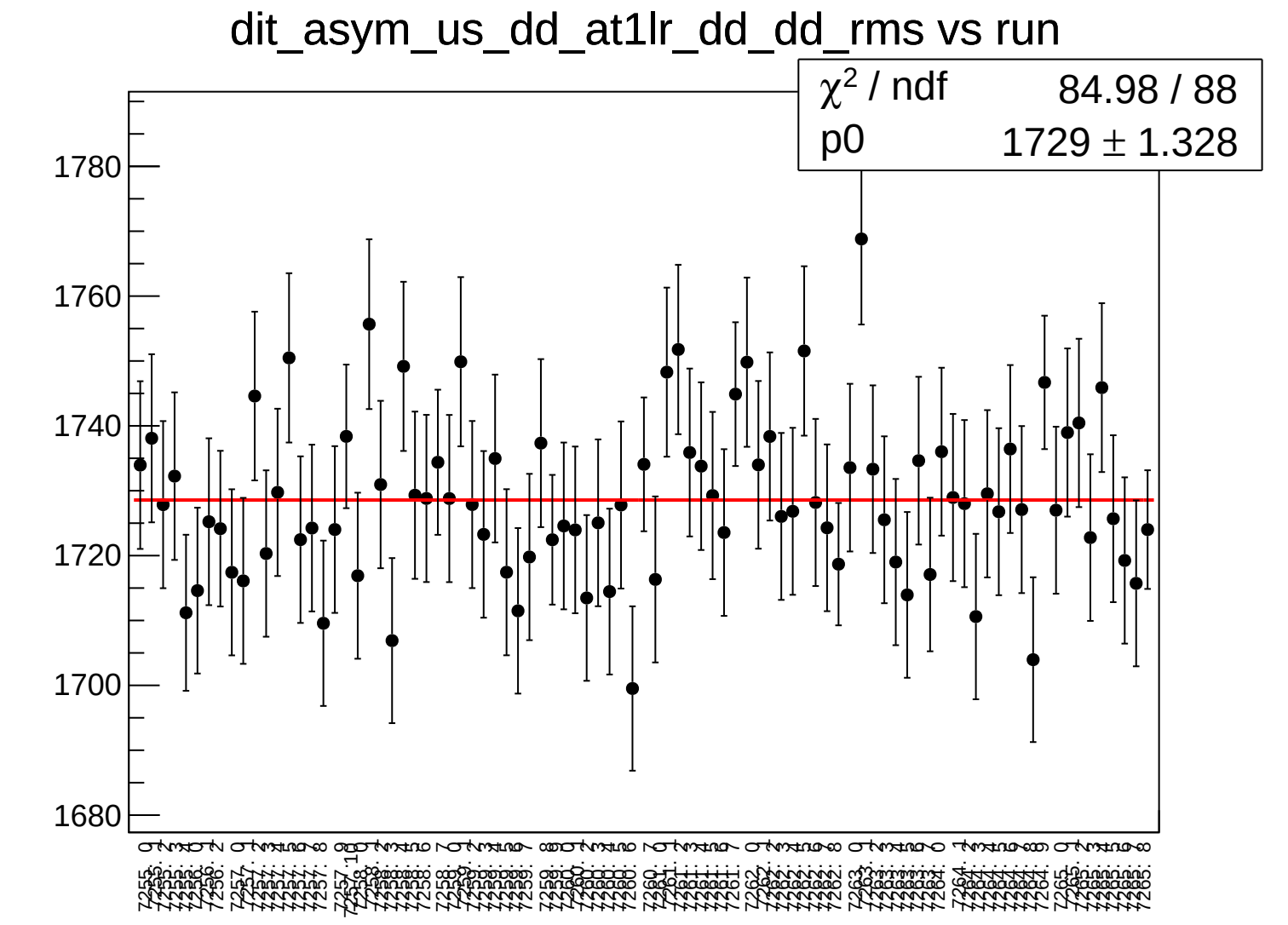

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 92.19 / 88
p0 1150 ± 1876
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −342.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.00256
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

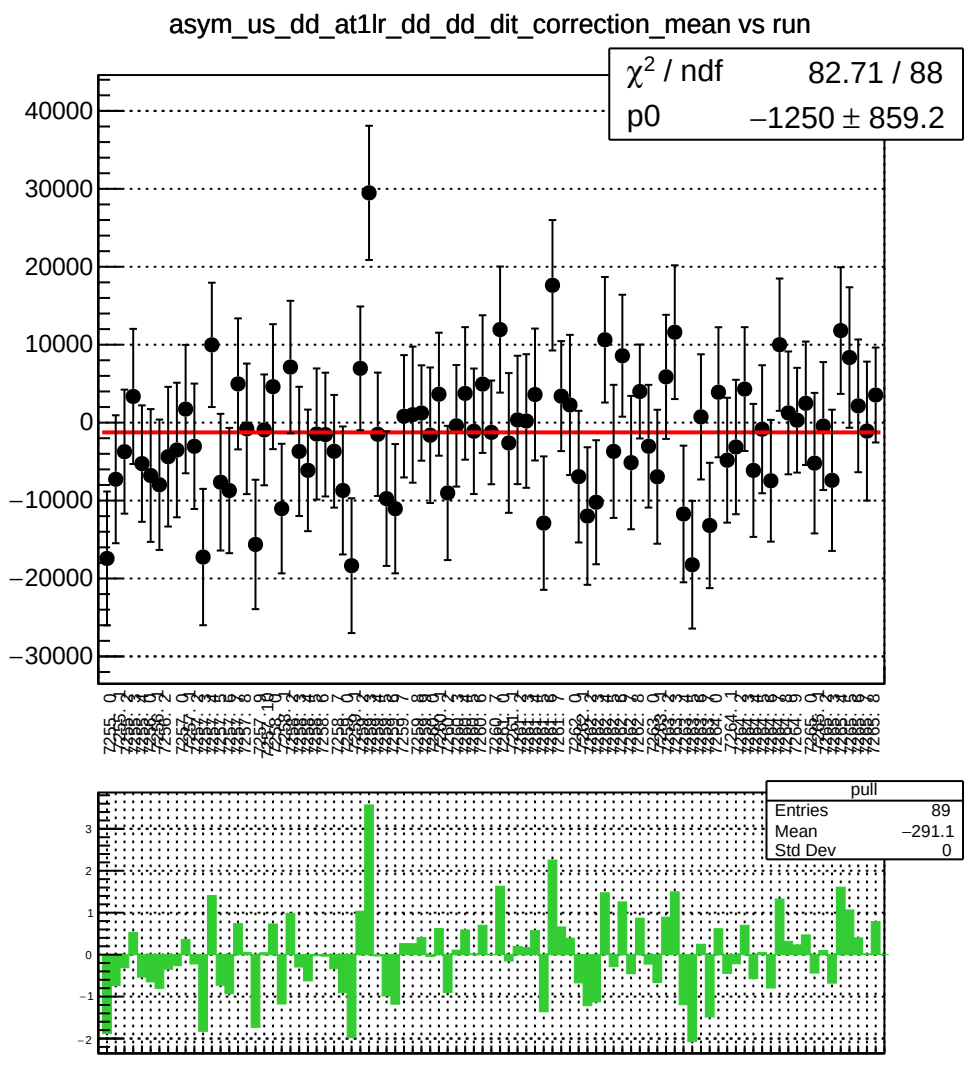

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 80.47 / 88
p0 1727 ± 1.327
1780
1760
1740
1720
1700
1680

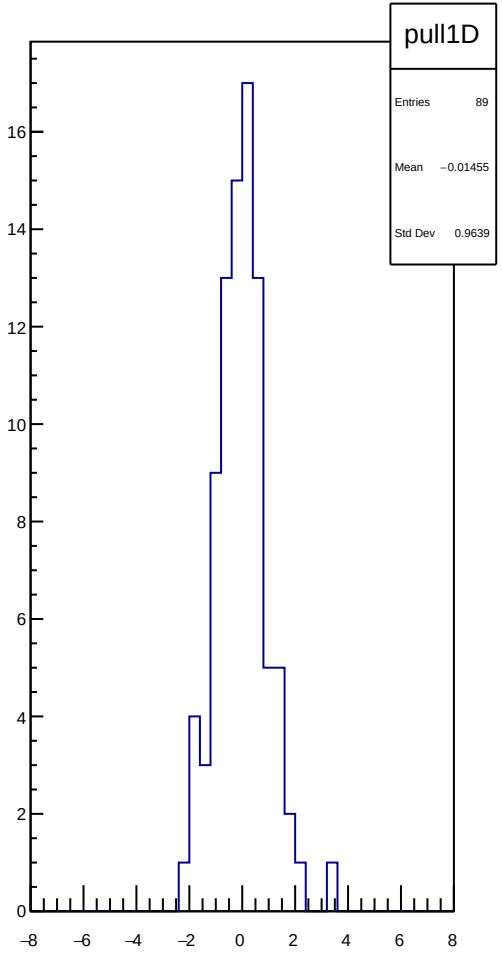

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.76 / 88
p0 −1184 ± 846.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −257.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01585
Std Dev 0.97
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

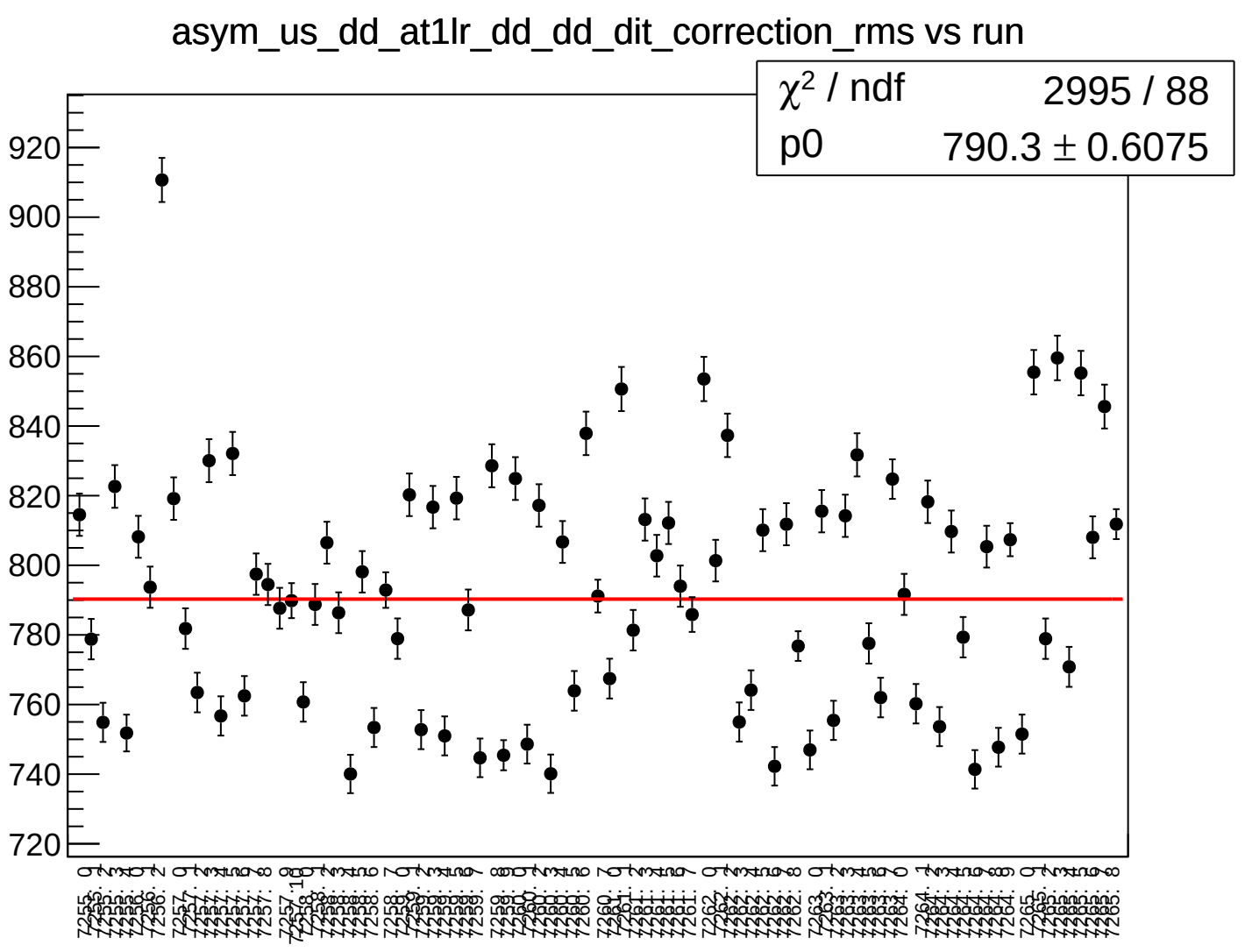

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4297 / 88
p0 778 ± 0.5984
900
850
800
750
700

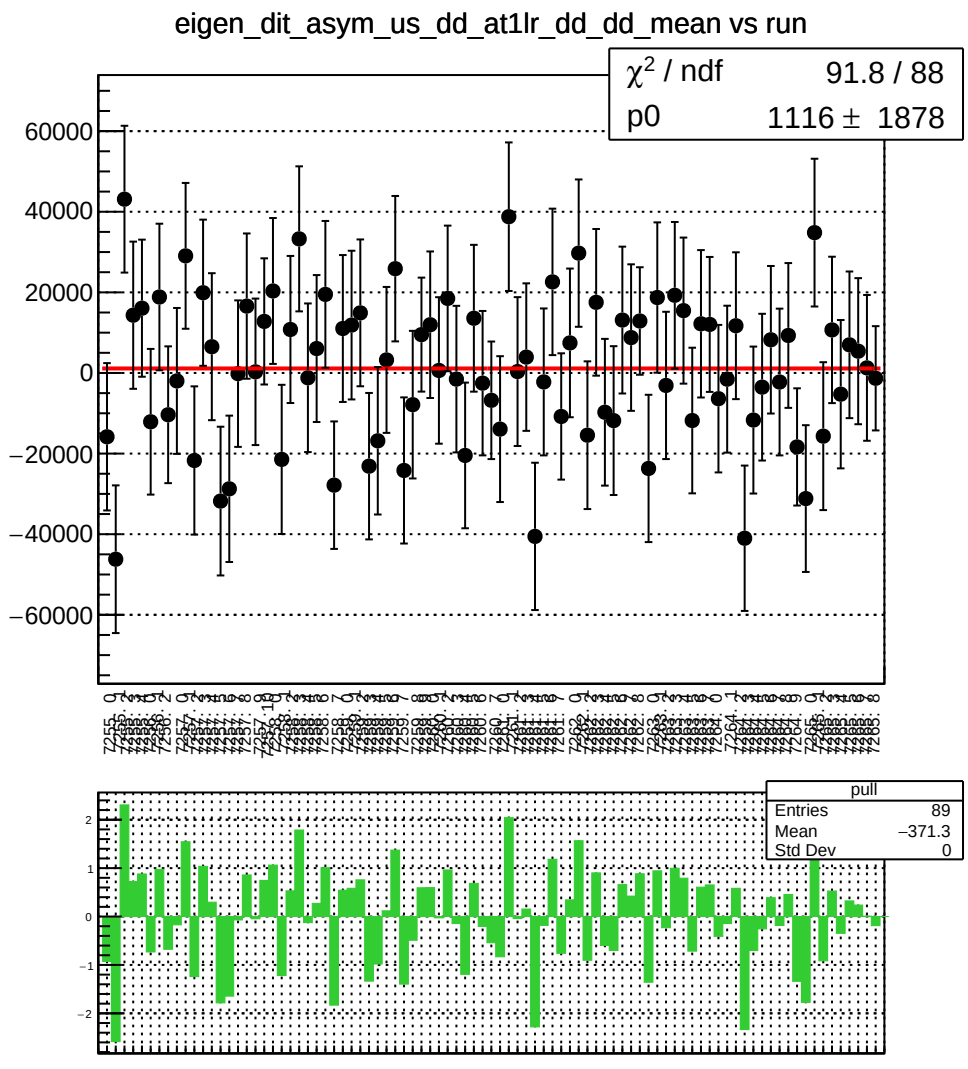

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ^2 / ndf 91.8 / 88
p0 1116 ± 1878
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −371.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.002244
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

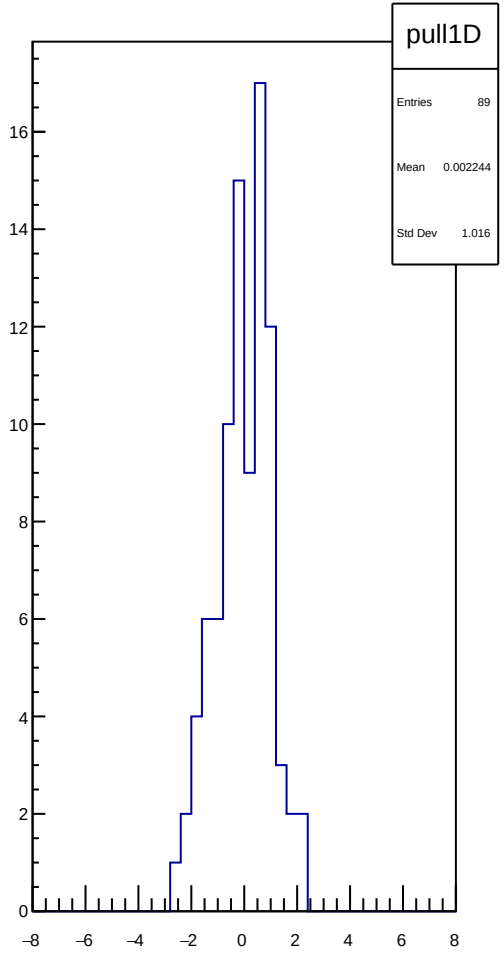

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 84.98 / 88
p0 1729 ± 1.328
1780
1760
1740
1720
1700
1680

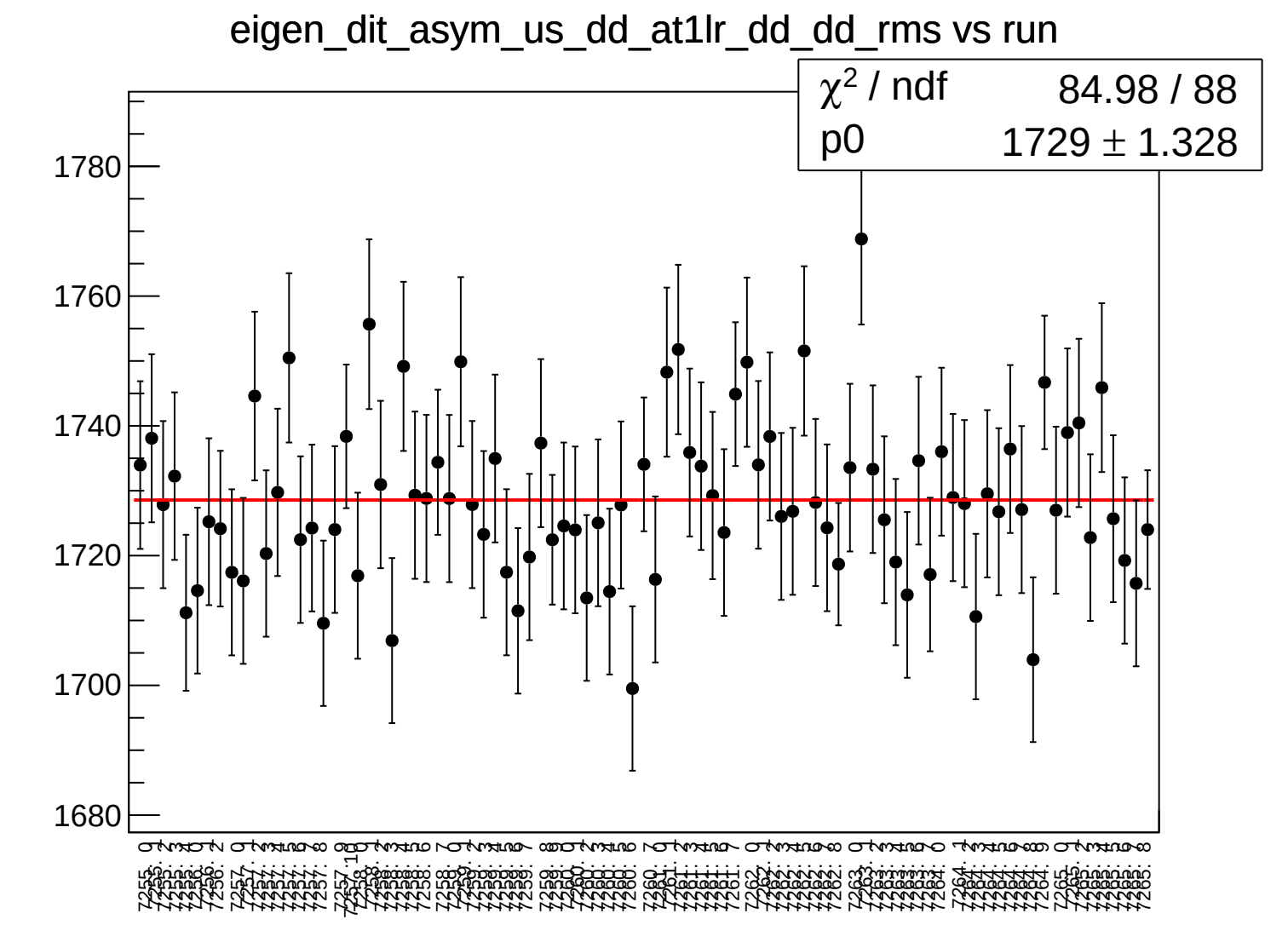

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 82.71 / 88
p0 −1250 ± 859.2
pull
Entries 89
Mean −291.1
Std Dev 0

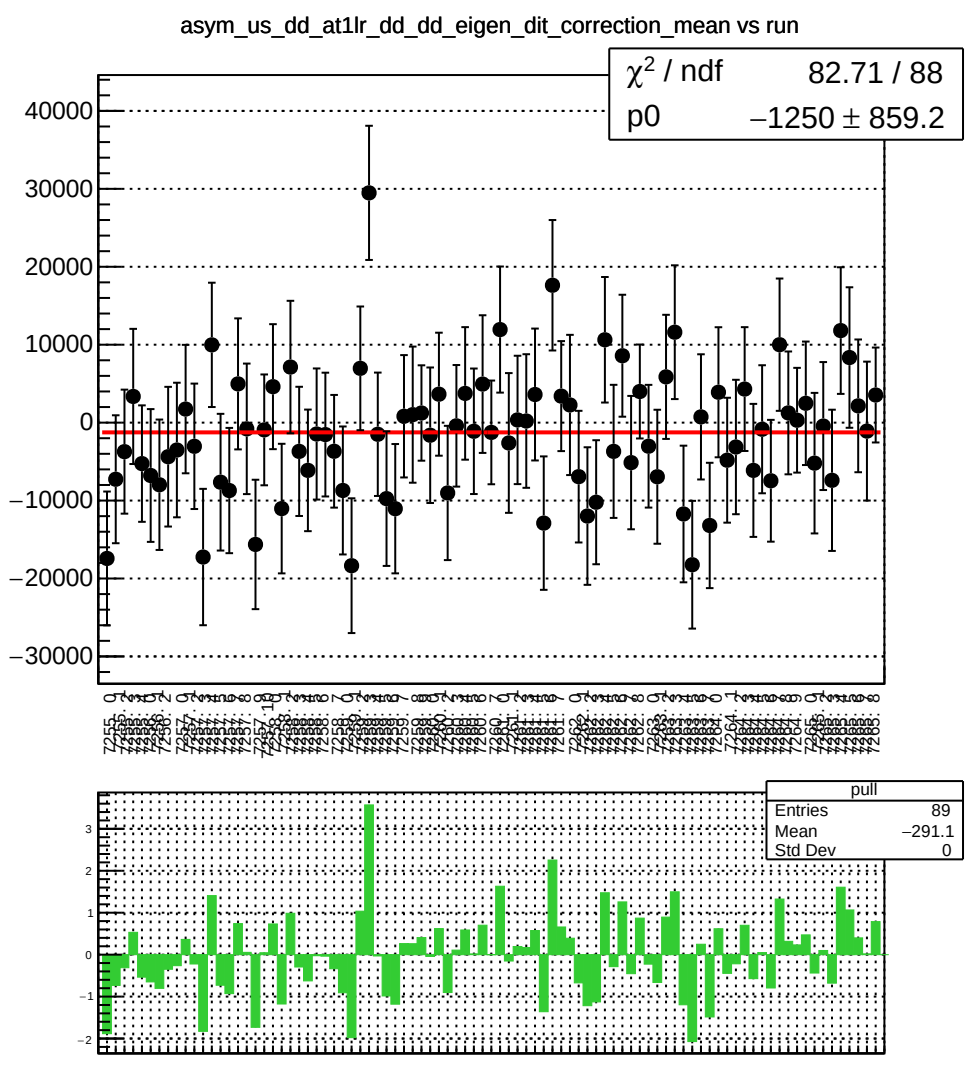

pull1D
Entries 89
Mean −0.01455
Std Dev 0.9639

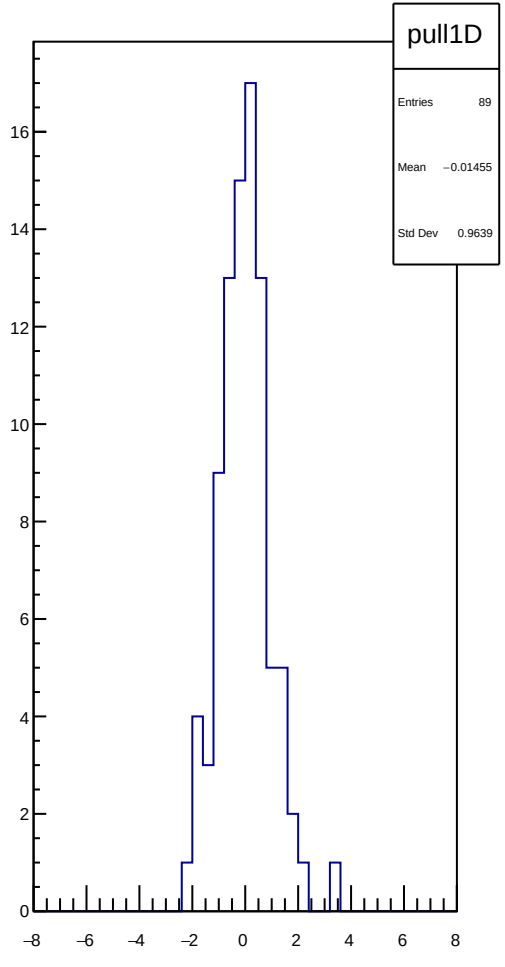

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2995 / 88
p0 790.3 ± 0.6075
920
900
880
860
840
820
800
780
760
740
720

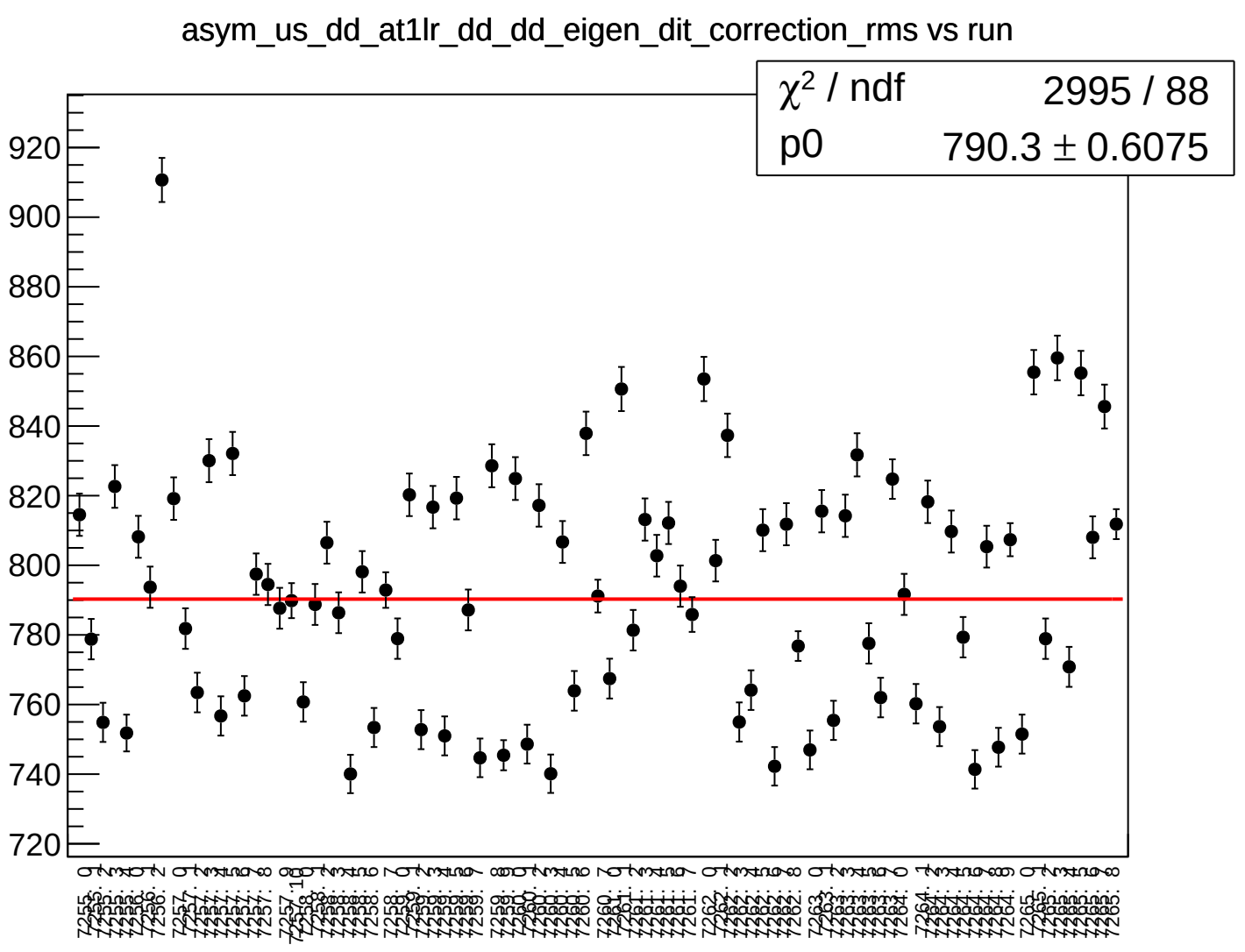

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 91.8 / 88
p0 1116 ± 1878
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −371.3
Std Dev 0
2
1
0
−1
−2

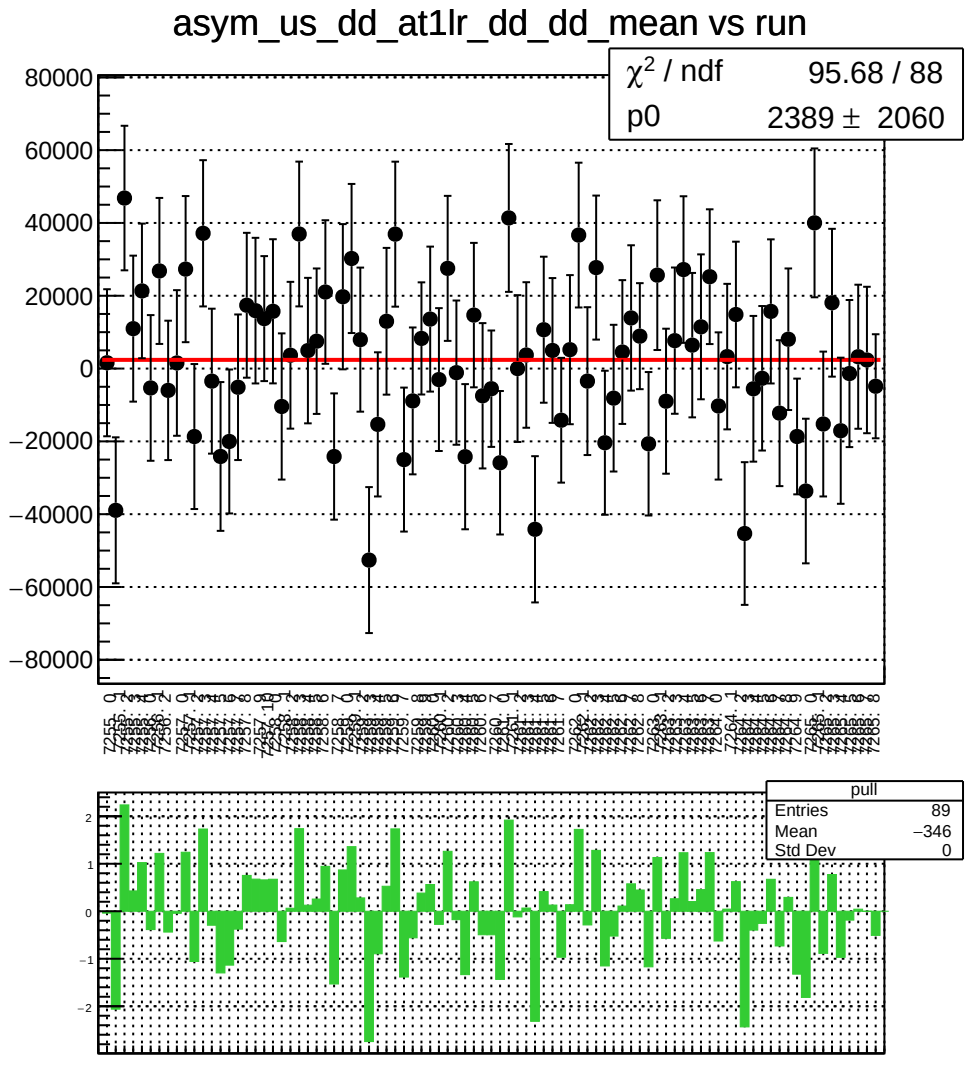

pull1D
Entries 89
Mean 0.002244
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

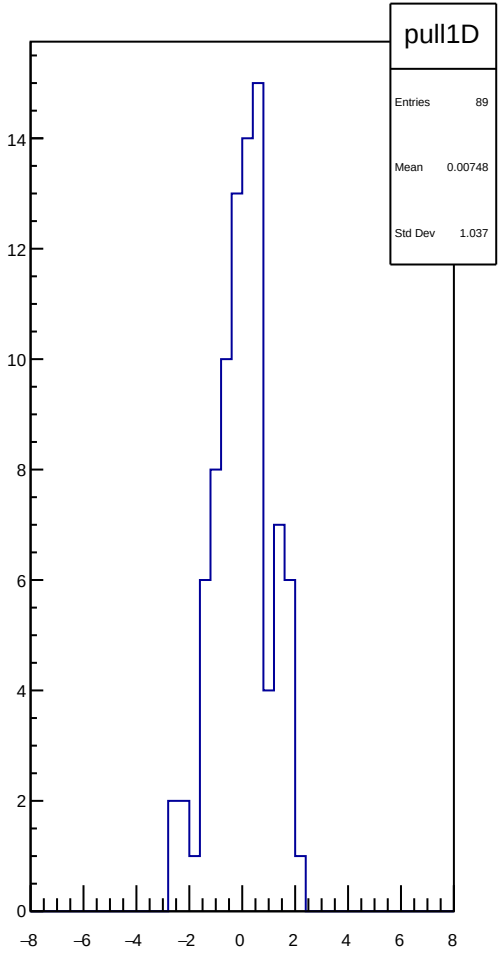

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 84.98 / 88
p0 1729 ± 1.328
1780
1760
1740
1720
1700
1680

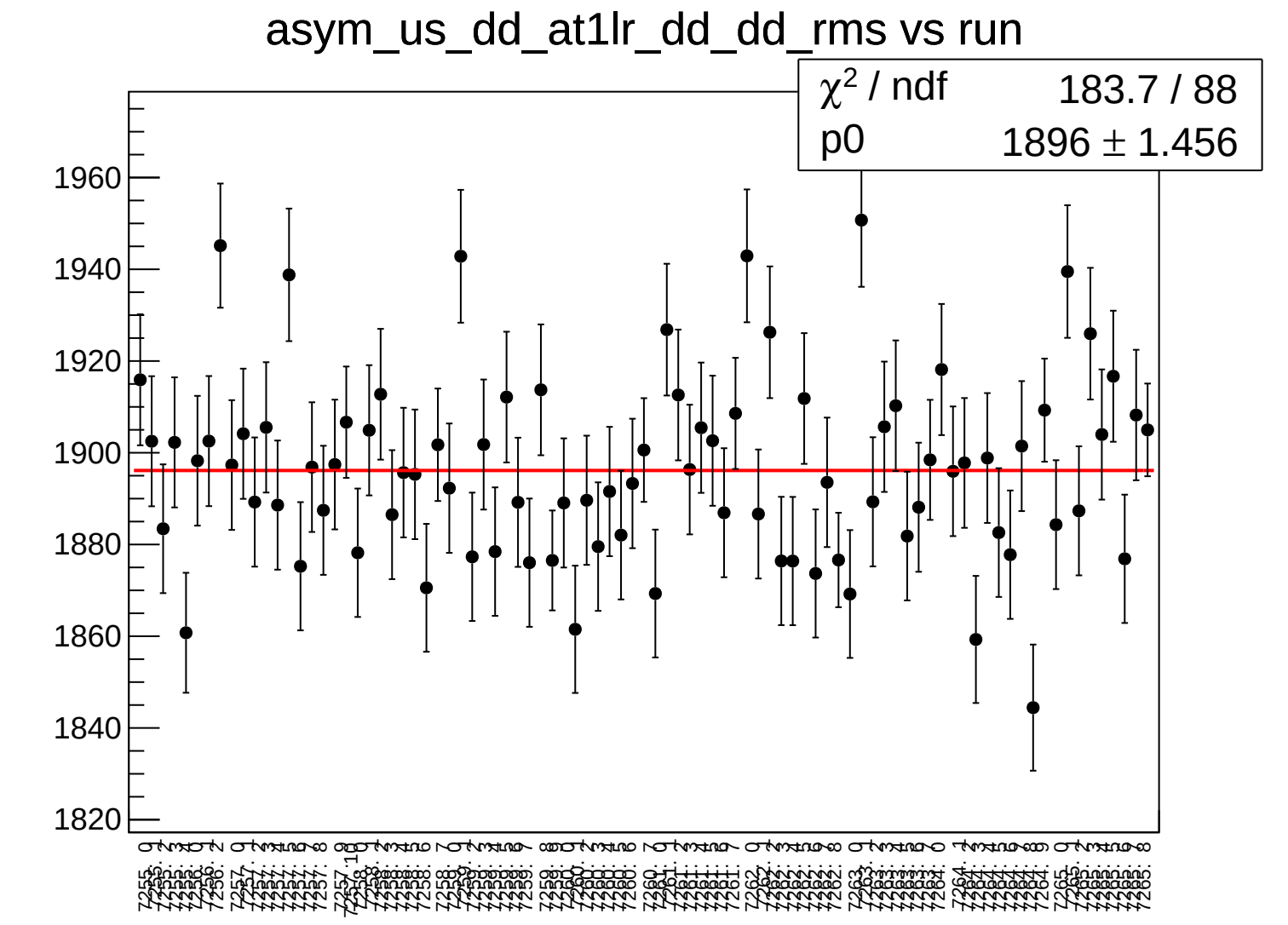

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.71 / 88
p0 −1250 ± 859.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −291.1
Std Dev 0
3
2
1
0
−1
−2

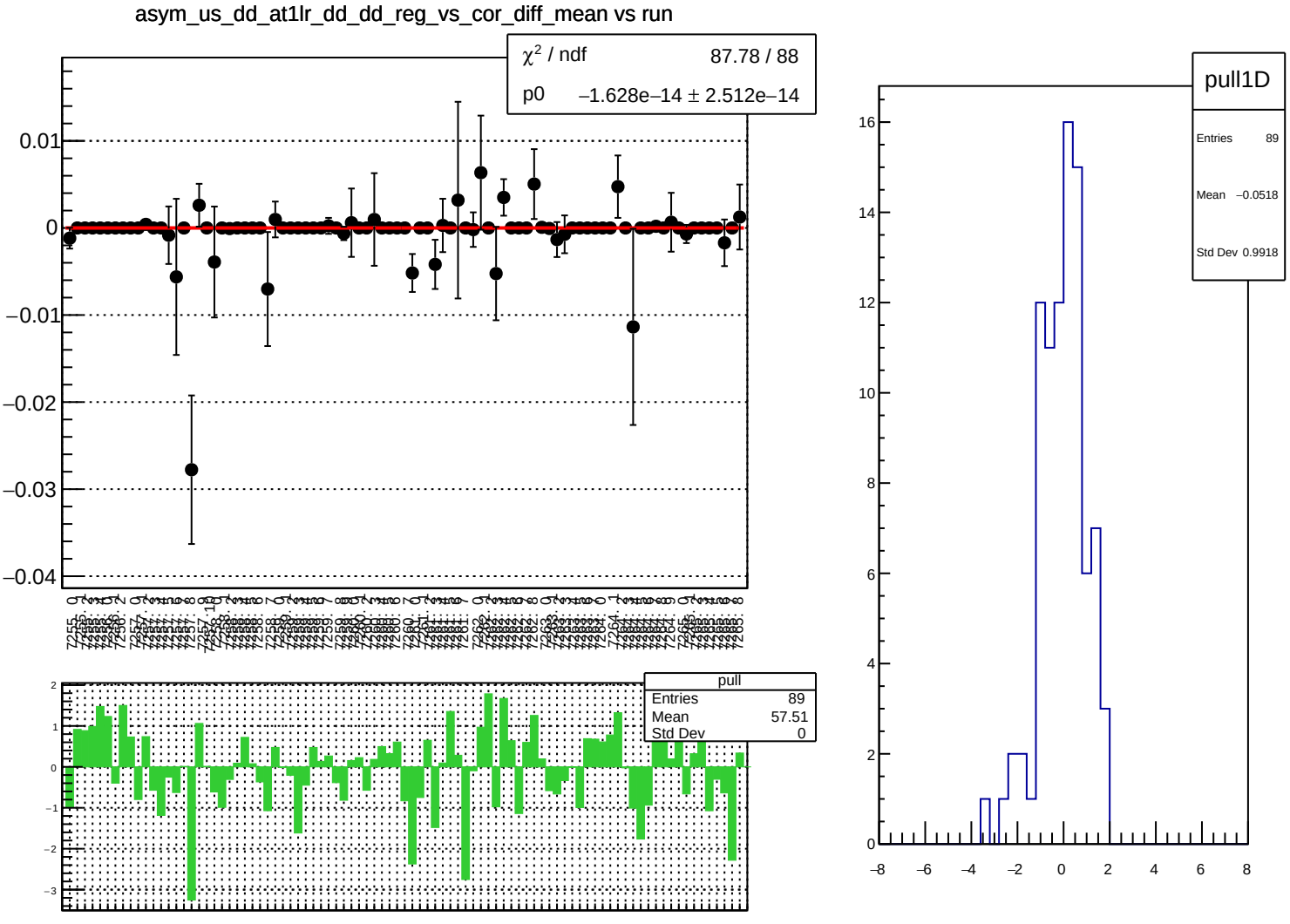

pull1D
Entries 89
Mean −0.01455
Std Dev 0.9639
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

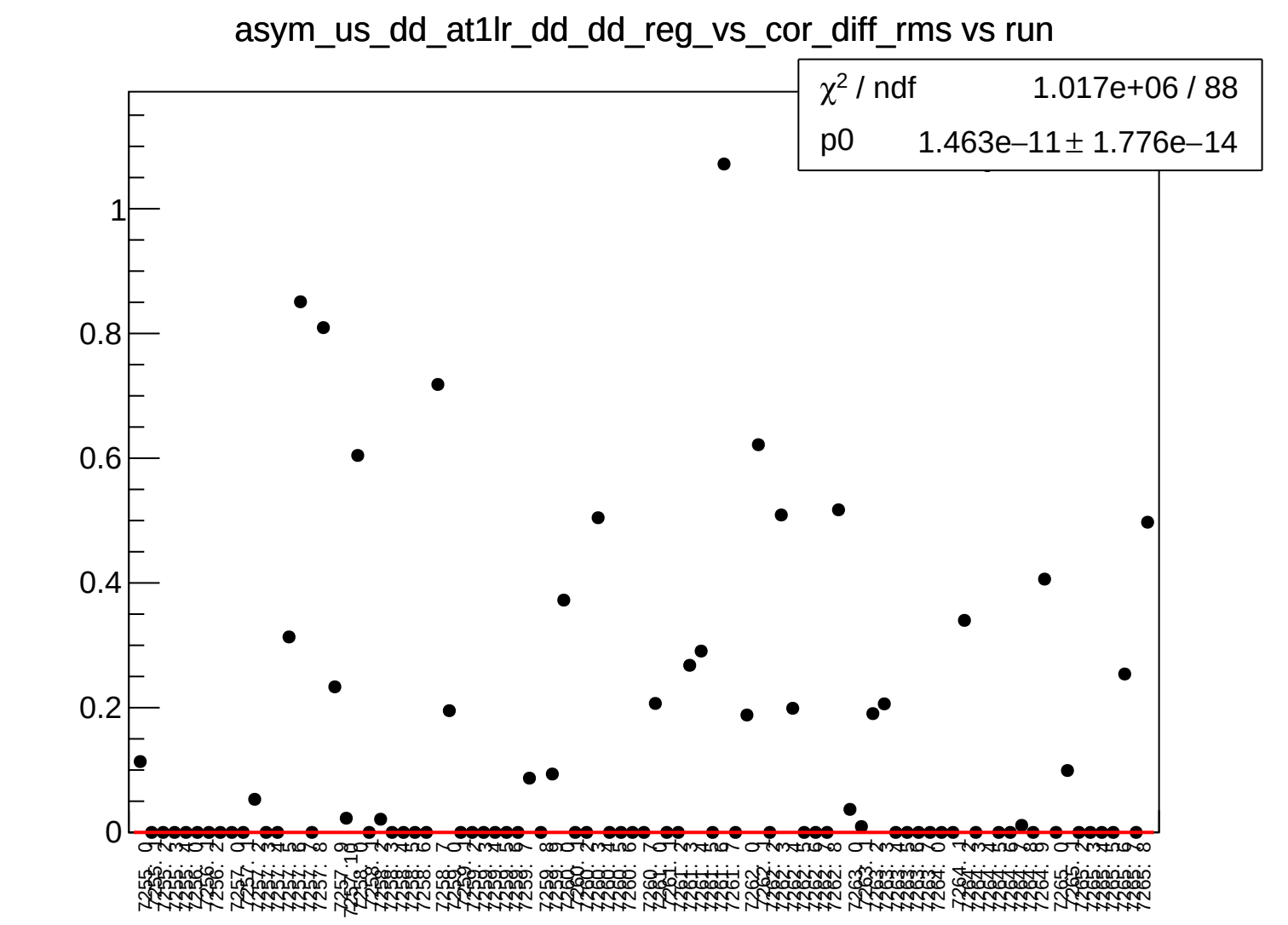

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2995 / 88
p0 790.3 ± 0.6075
920
900
880
860
840
820
800
780
760
740
720

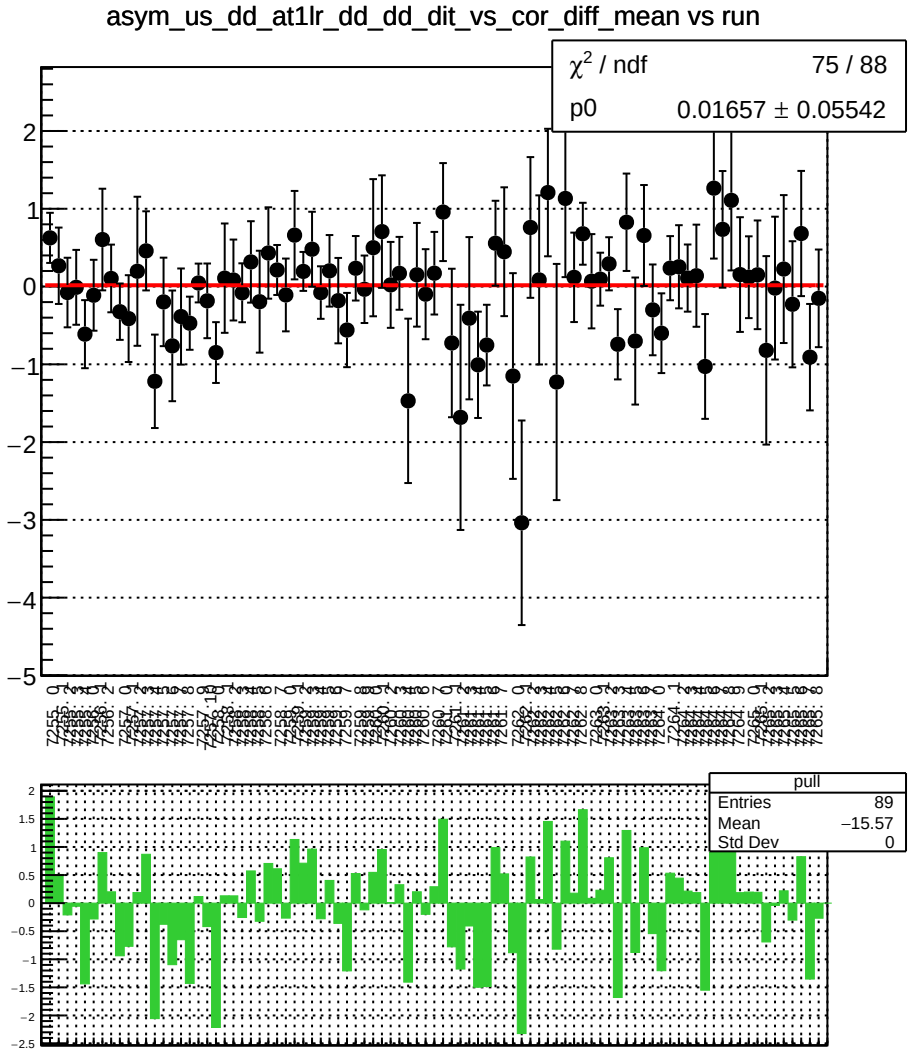

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 95.68 / 88
p0 2389 ± 2060
pull
Entries 89
Mean −346
Std Dev 0

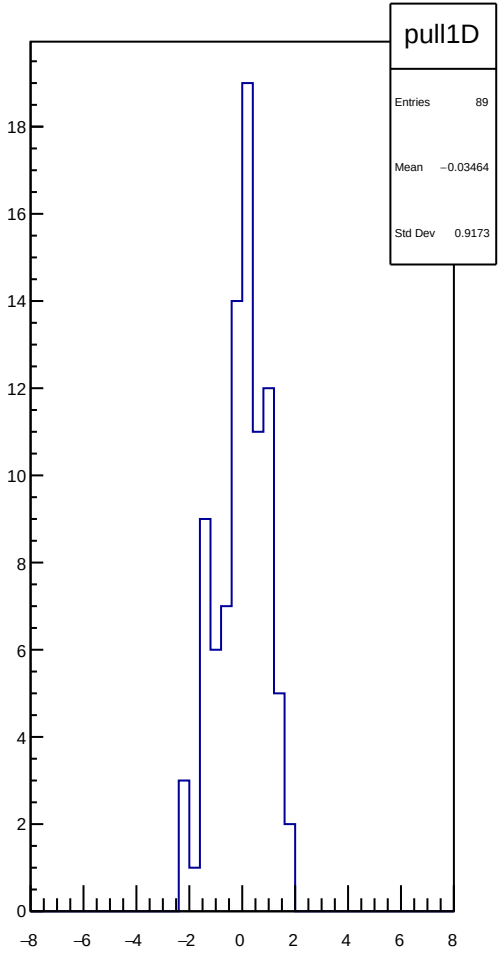

pull1D
Entries 89
Mean 0.00748
Std Dev 1.037

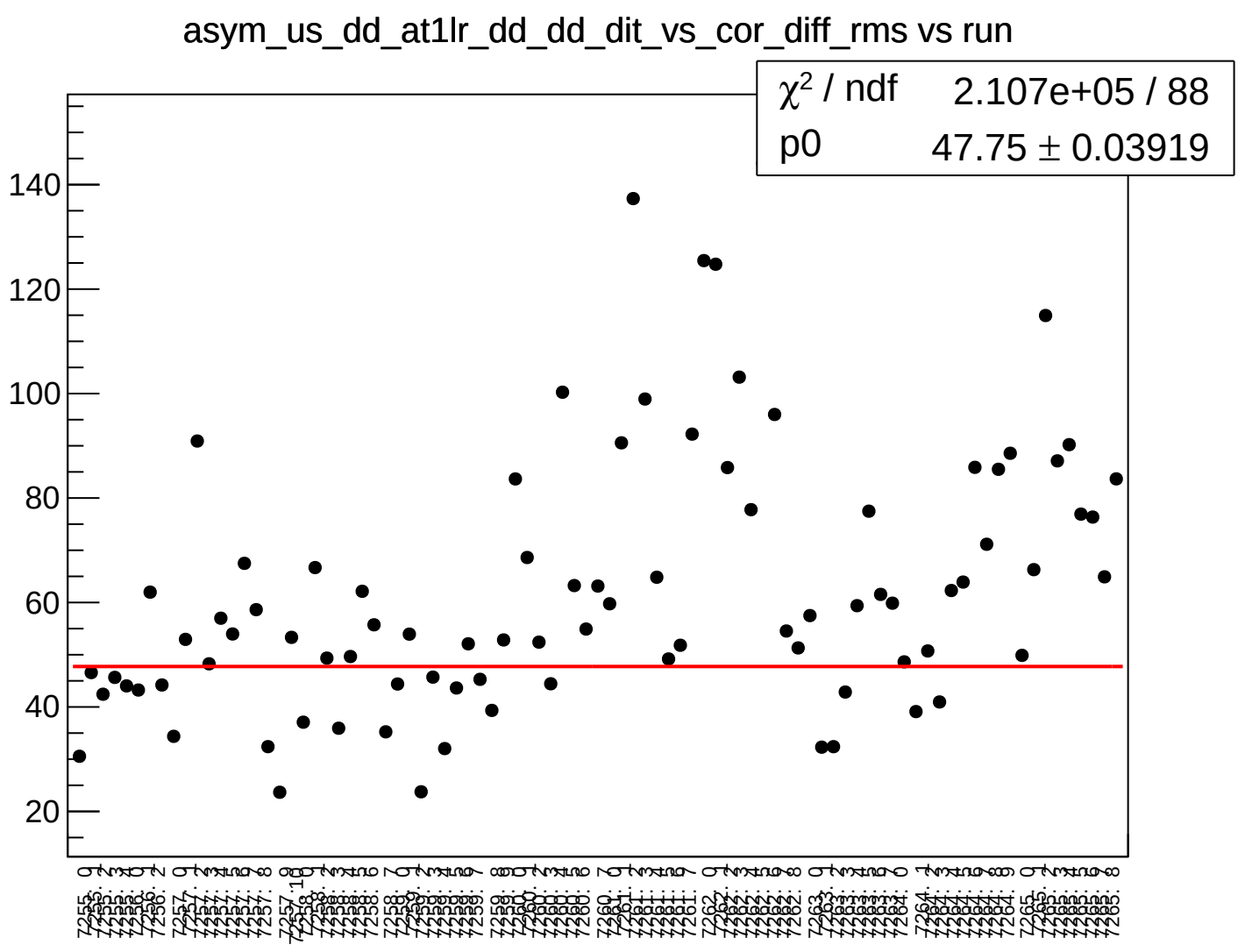

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 183.7 / 88
p0 1896 ± 1.456
1960
1940
1920
1900
1880
1860
1840
1820

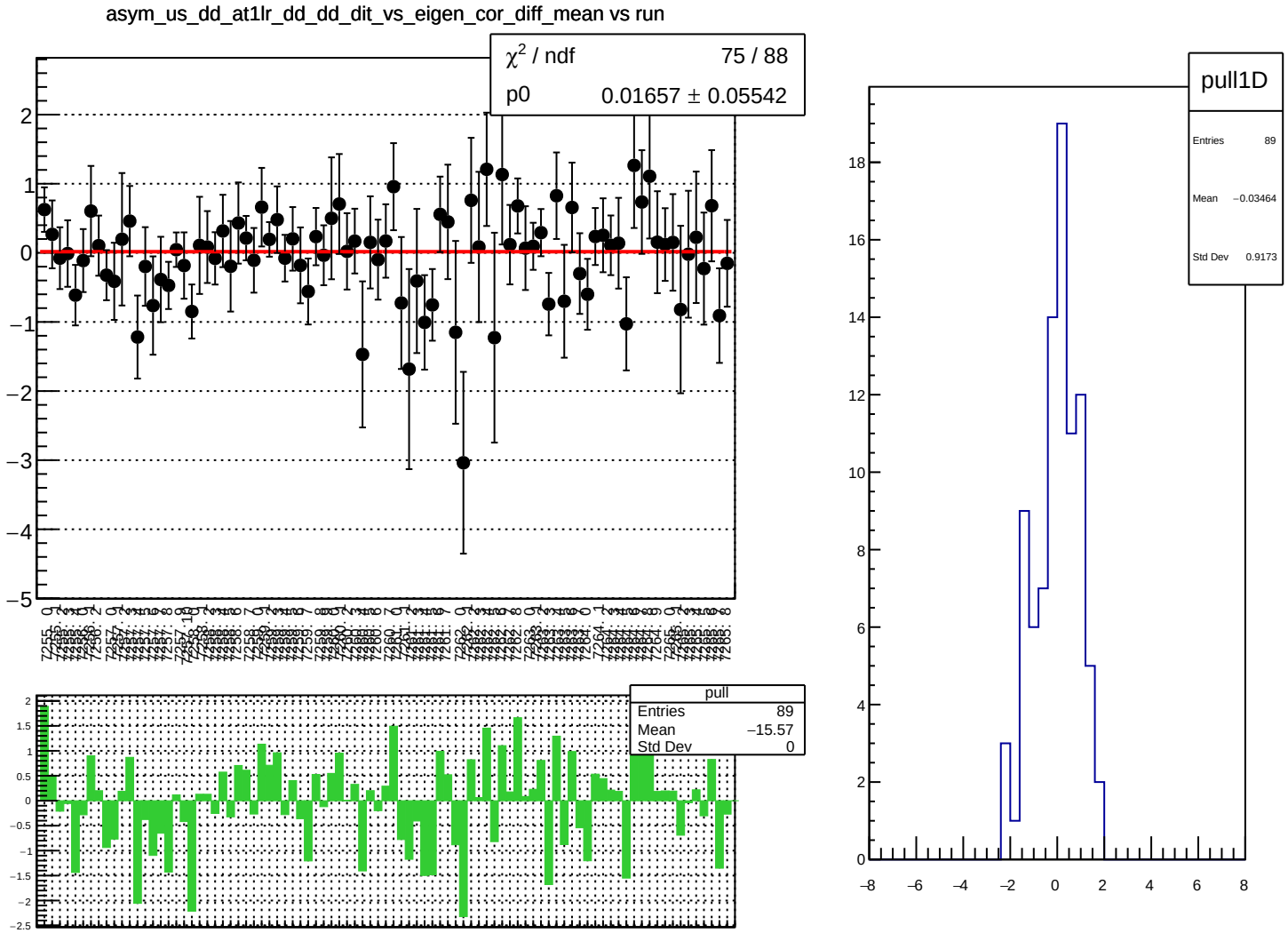

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.78 / 88
p0 −1.628e−14 ± 2.512e−14
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 89
Mean 57.51
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.0518
Std Dev 0.9918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

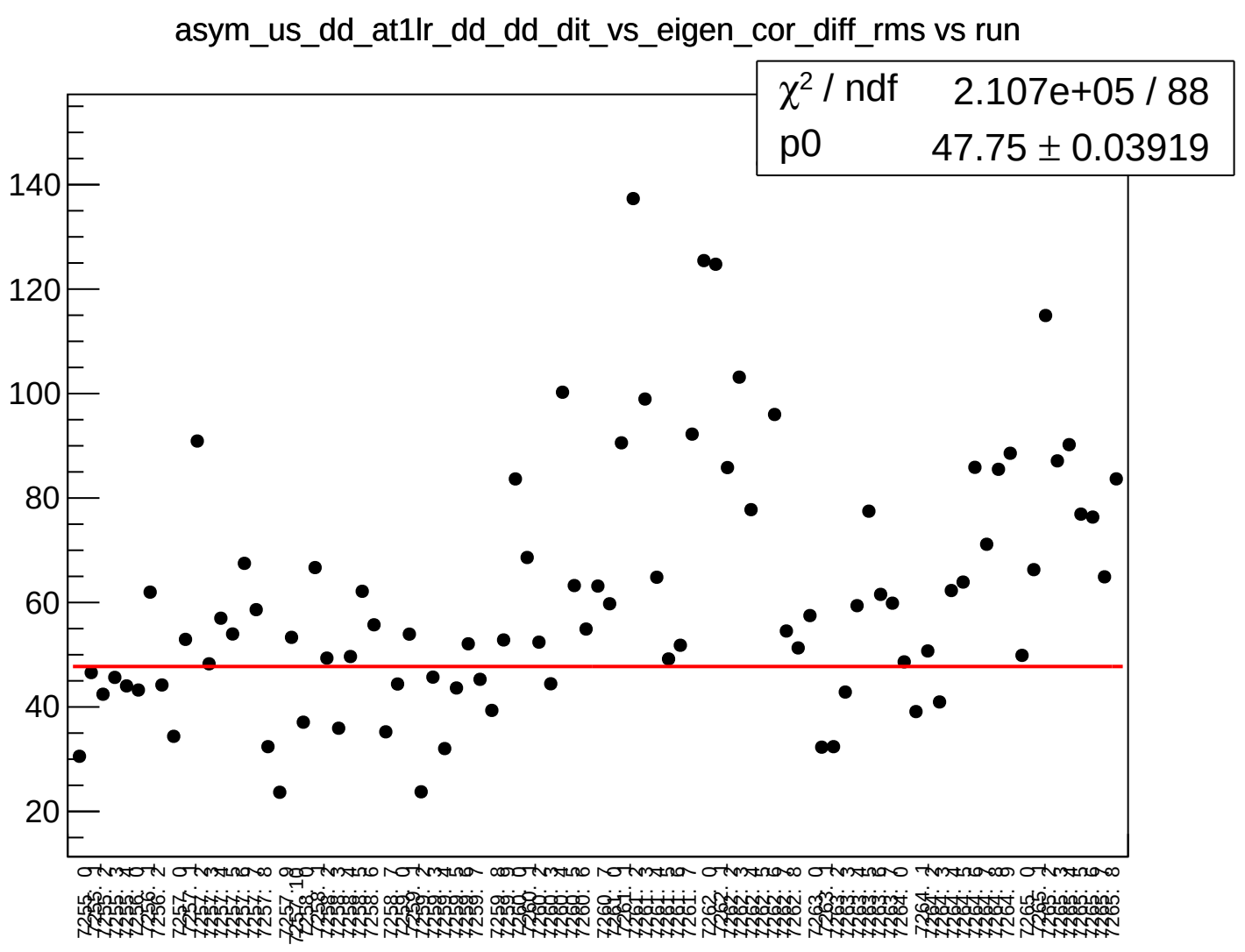

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.017e+06 / 88
p0 1.463e−11 ± 1.776e−14
1
0.8
0.6
0.4
0.2
0

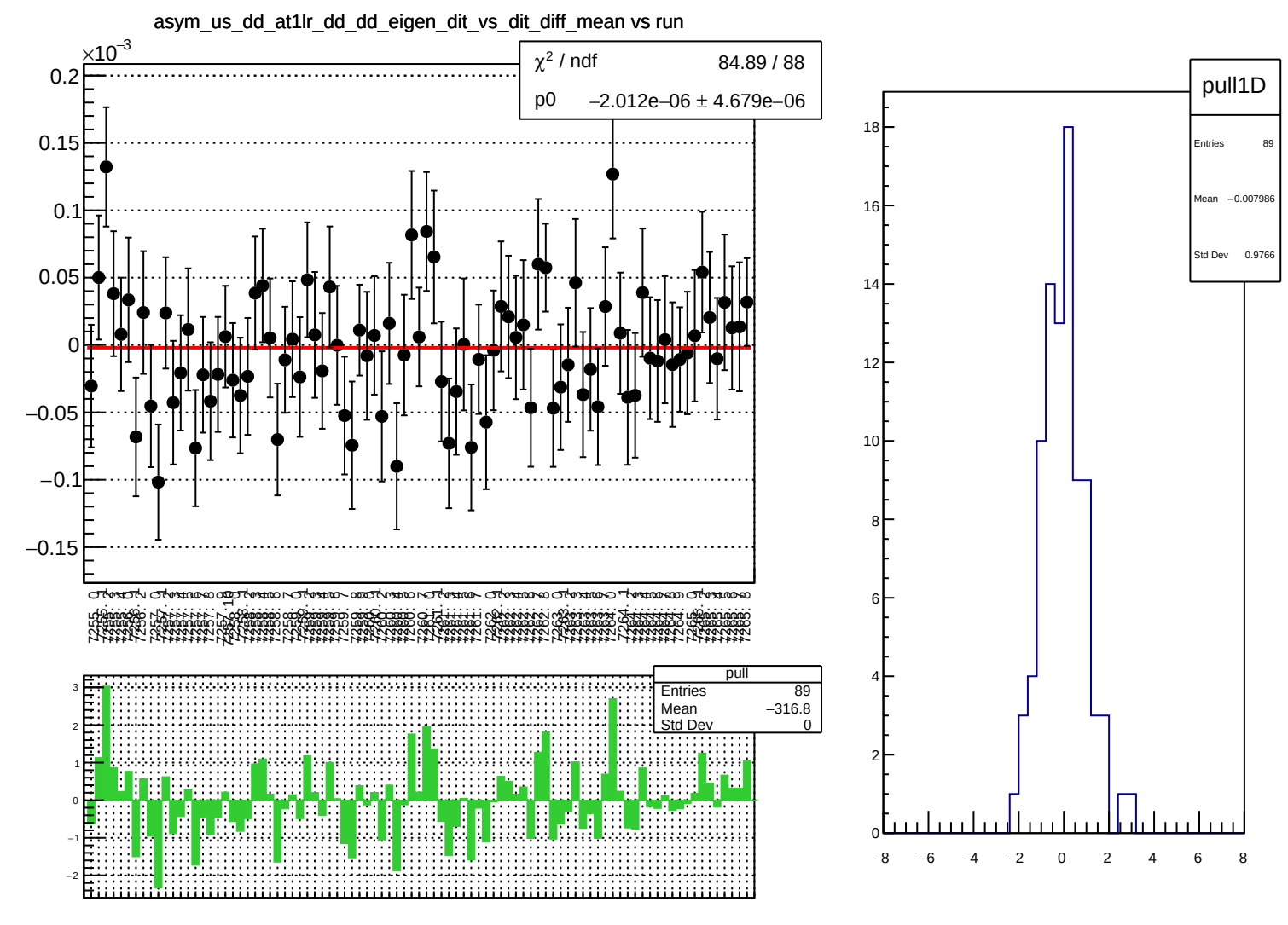

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75 / 88
p0 0.01657 ± 0.05542
pull
Entries 89
Mean −15.57
Std Dev 0

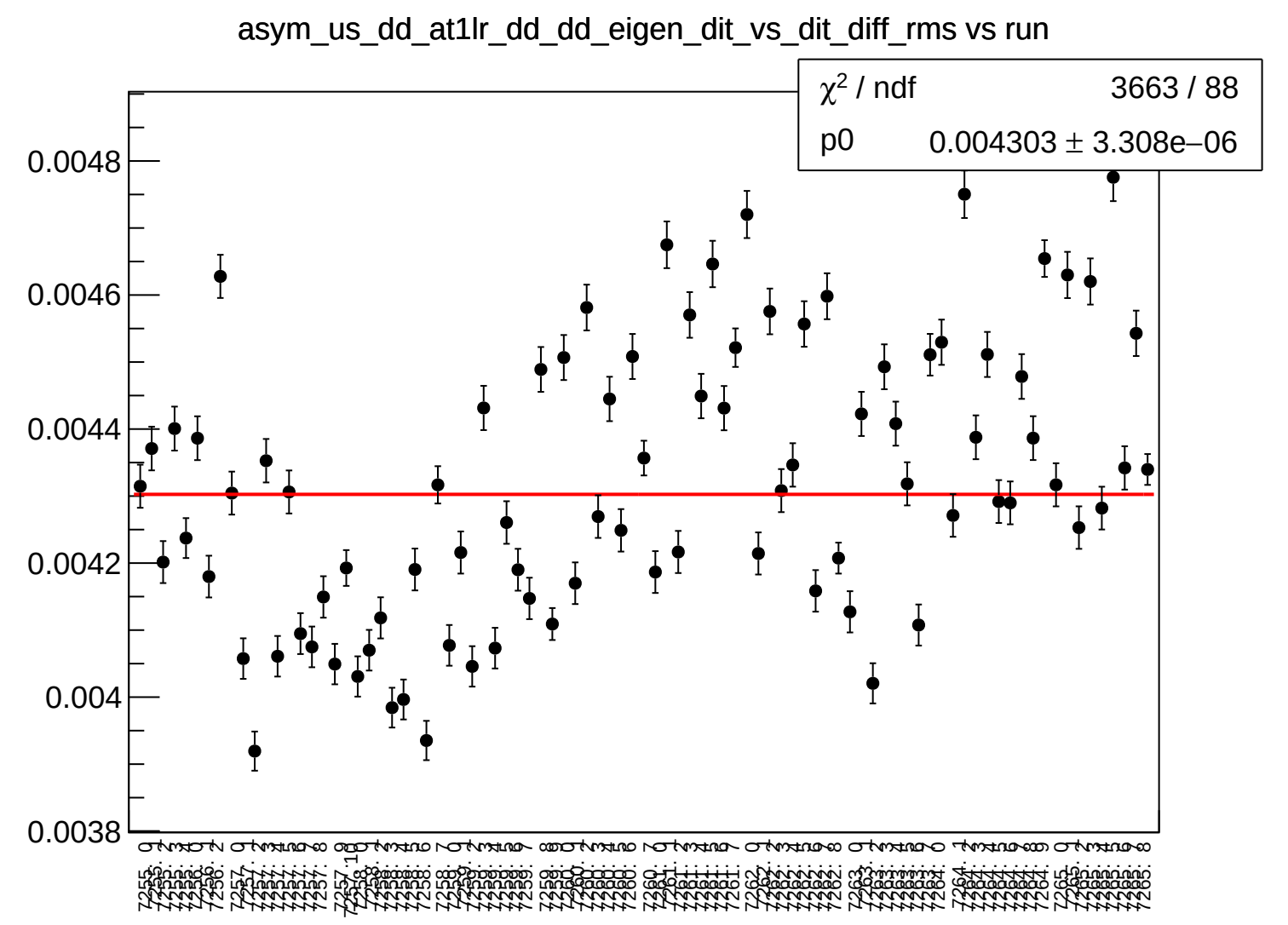

pull1D
Entries 89
Mean −0.03464
Std Dev 0.9173

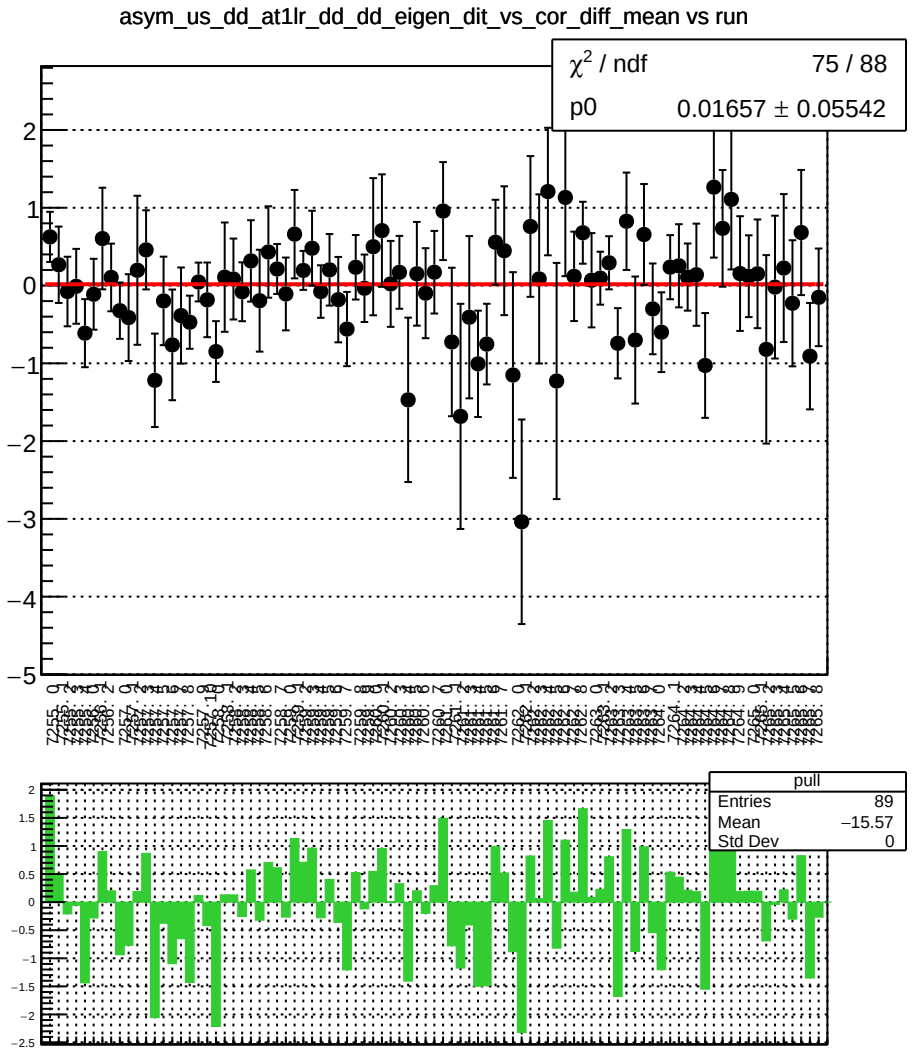

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.107e+05 / 88
p0 47.75 ± 0.03919
140
120
100
80
60
40
20

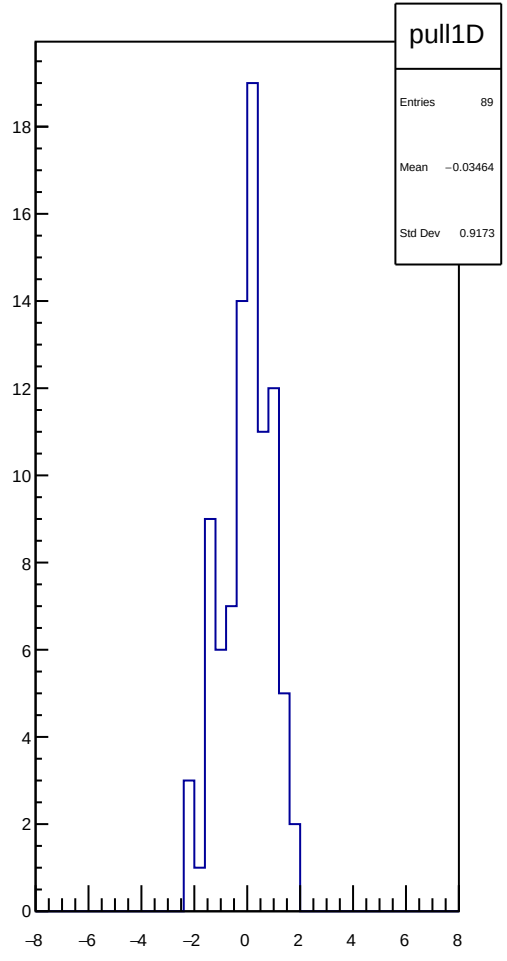

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75 / 88
p0 0.01657 ± 0.05542
pull
Entries 89
Mean −15.57
Std Dev 0
pull1D
Entries 89
Mean −0.03464
Std Dev 0.9173

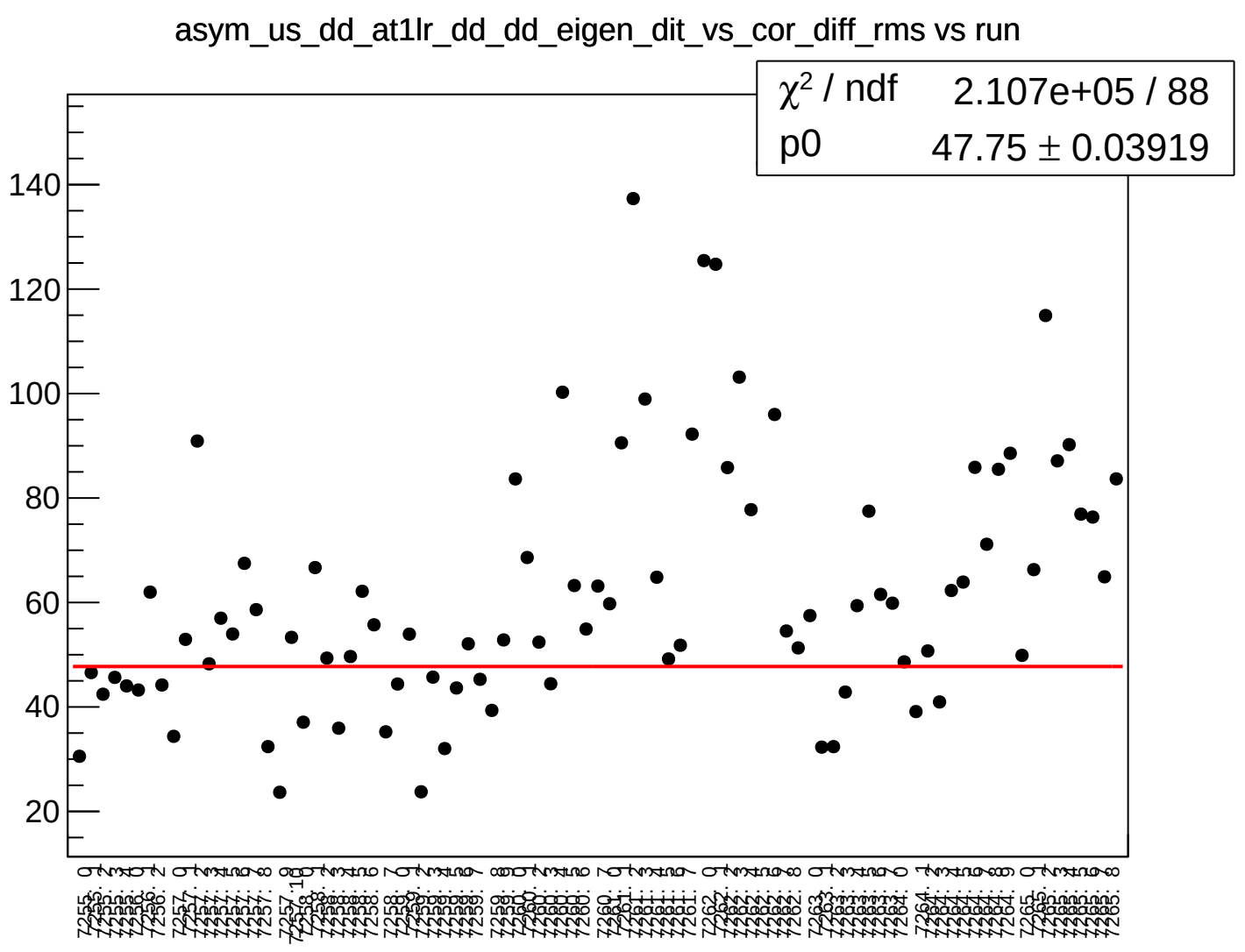

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.107e+05 / 88
p0 47.75 ± 0.03919
140
120
100
80
60
40
20

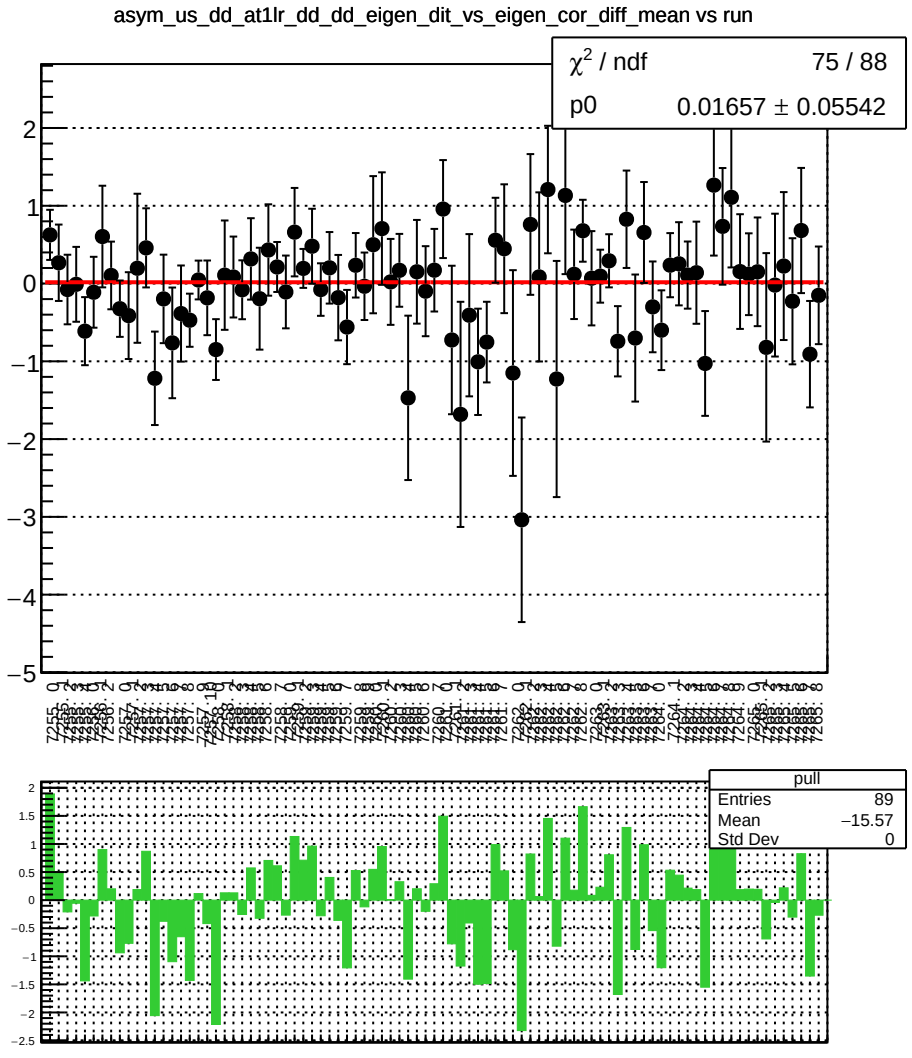

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.89 / 88
p0 −2.012e−06 ± 4.679e−06
pull
Entries 89
Mean −316.8
Std Dev 0
pull1D
Entries 89
Mean −0.007986
Std Dev 0.9766

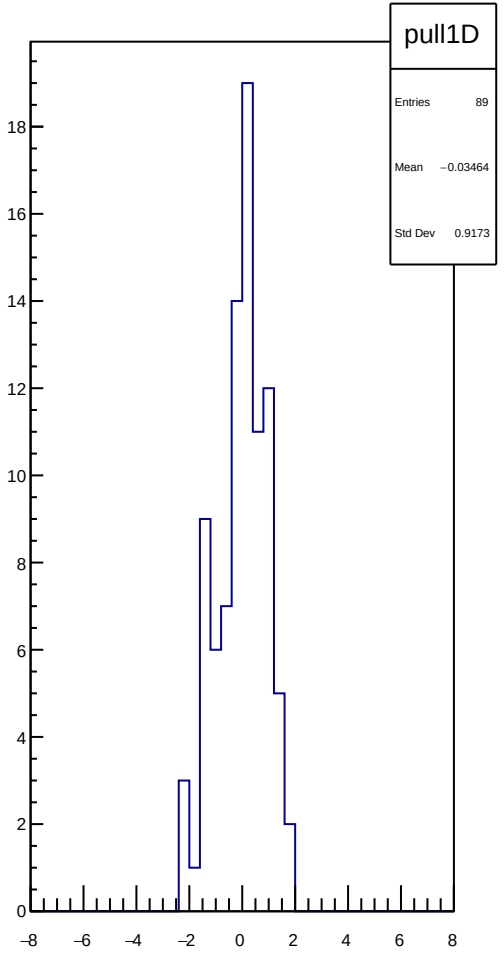

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3663 / 88
p0 0.004303 ± 3.308e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

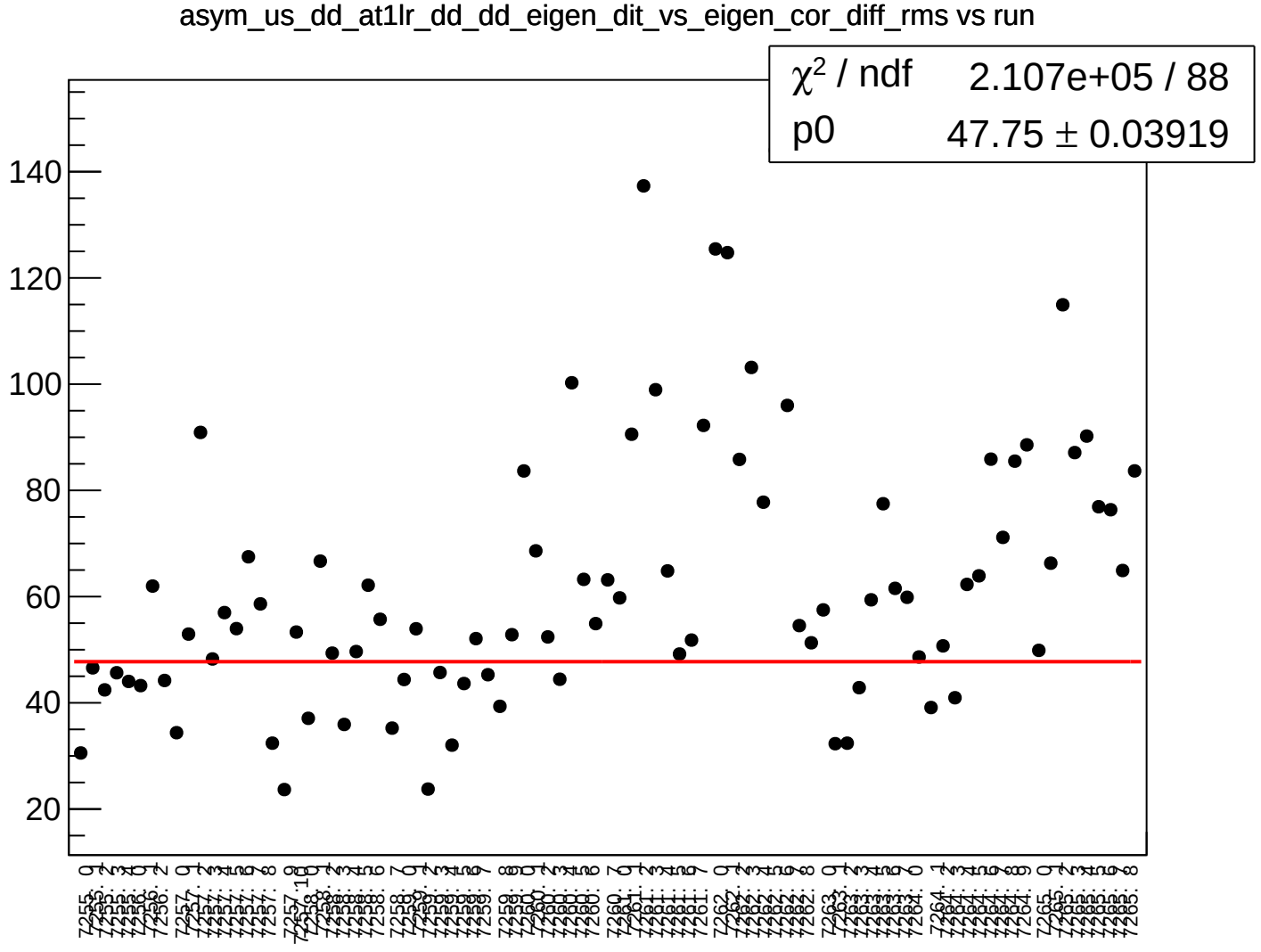

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75 / 88
p0 0.01657 ± 0.05542
pull
Entries 89
Mean −15.57
Std Dev 0

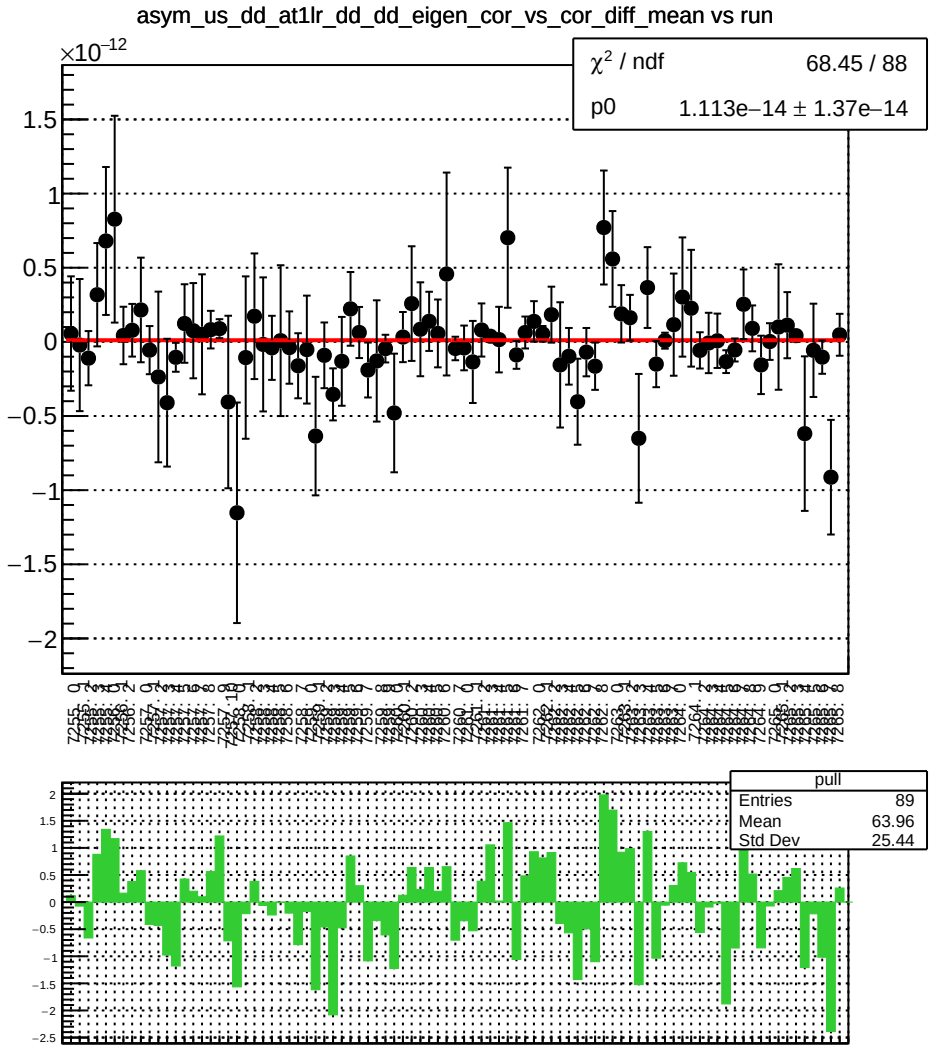

pull1D
Entries 89
Mean −0.03464
Std Dev 0.9173

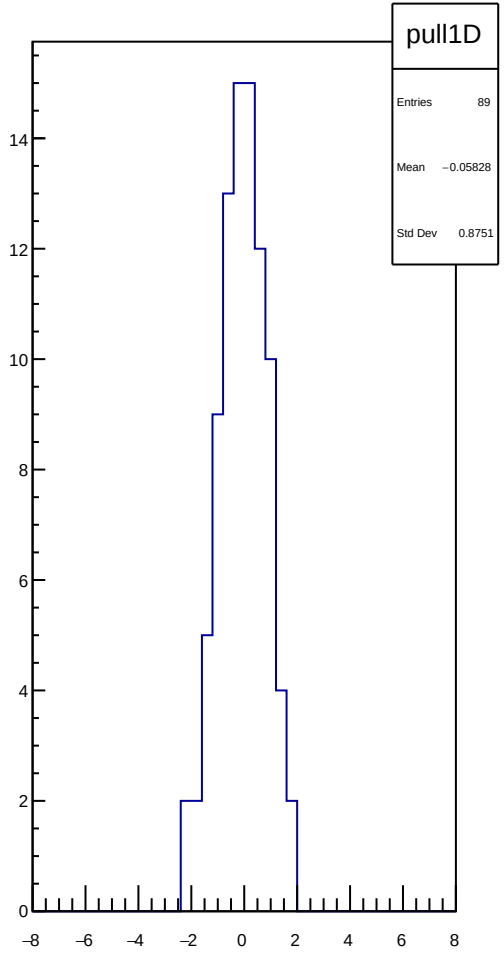

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.107e+05 / 88
p0 47.75 ± 0.03919
140
120
100
80
60
40
20

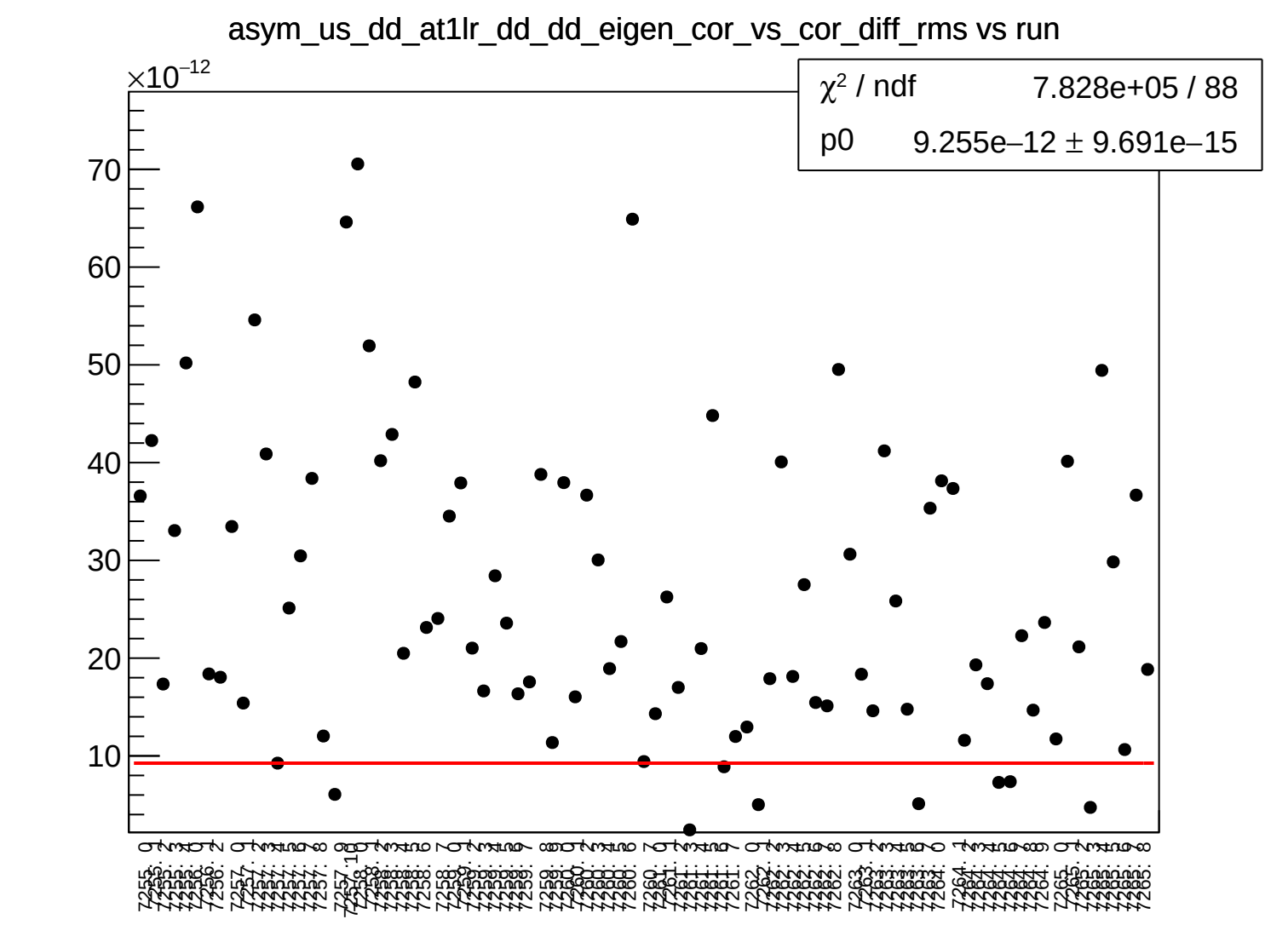

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75 / 88
p0 0.01657 ± 0.05542
pull
Entries 89
Mean −15.57
Std Dev 0

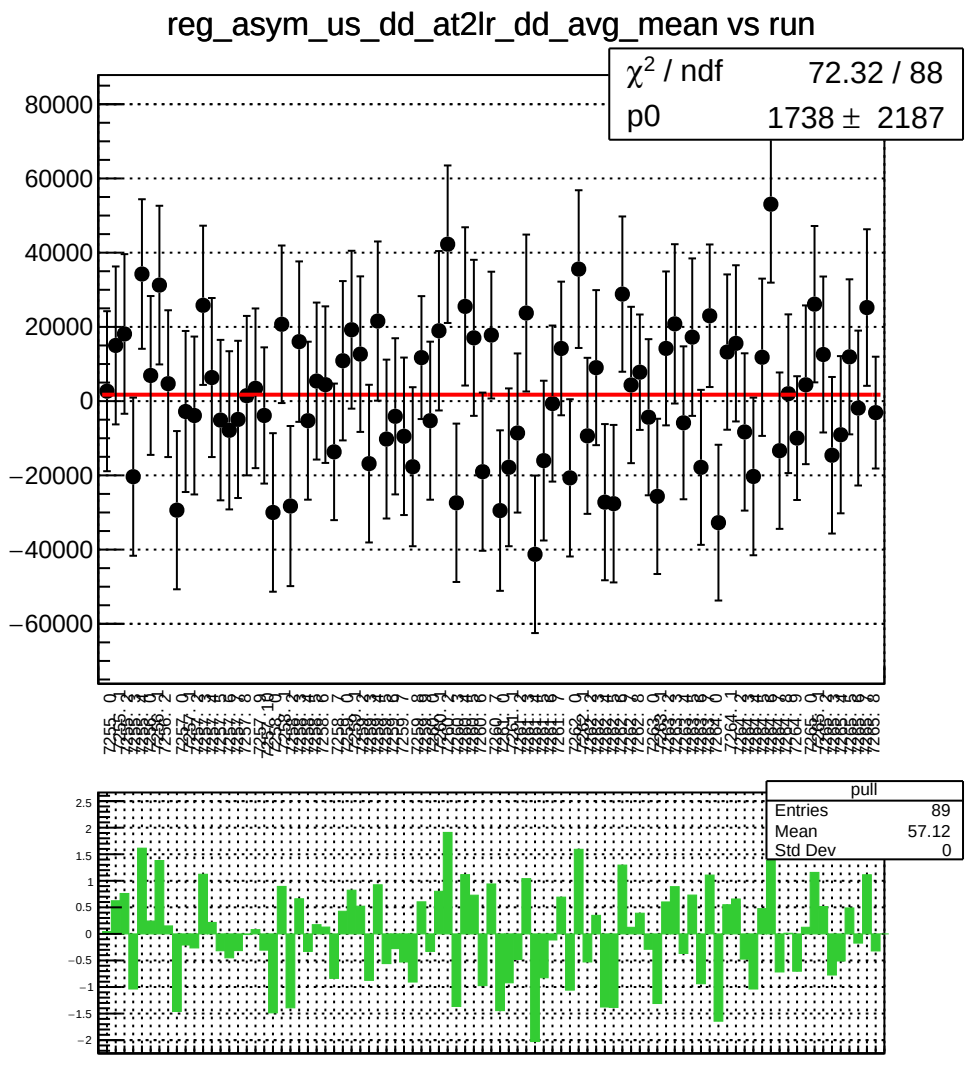

pull1D
Entries 89
Mean −0.03464
Std Dev 0.9173

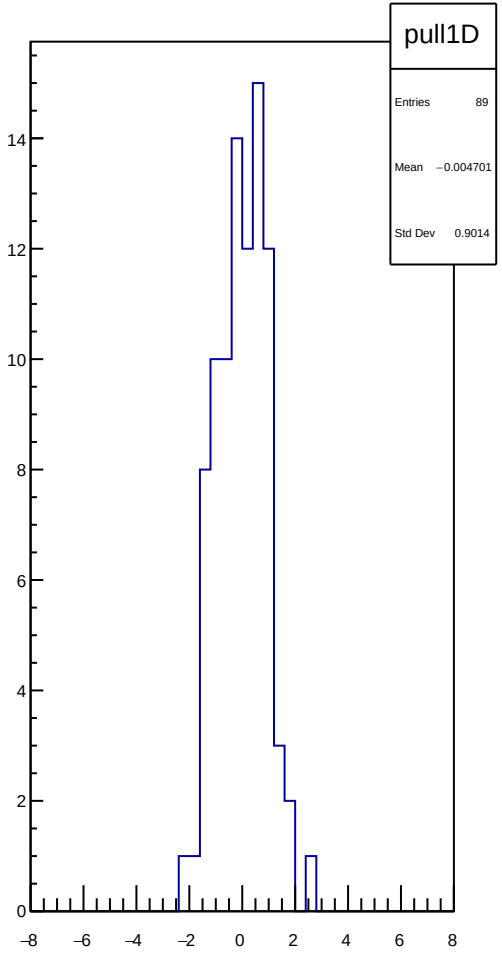

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.107e+05 / 88
p0 47.75 ± 0.03919
140
120
100
80
60
40
20

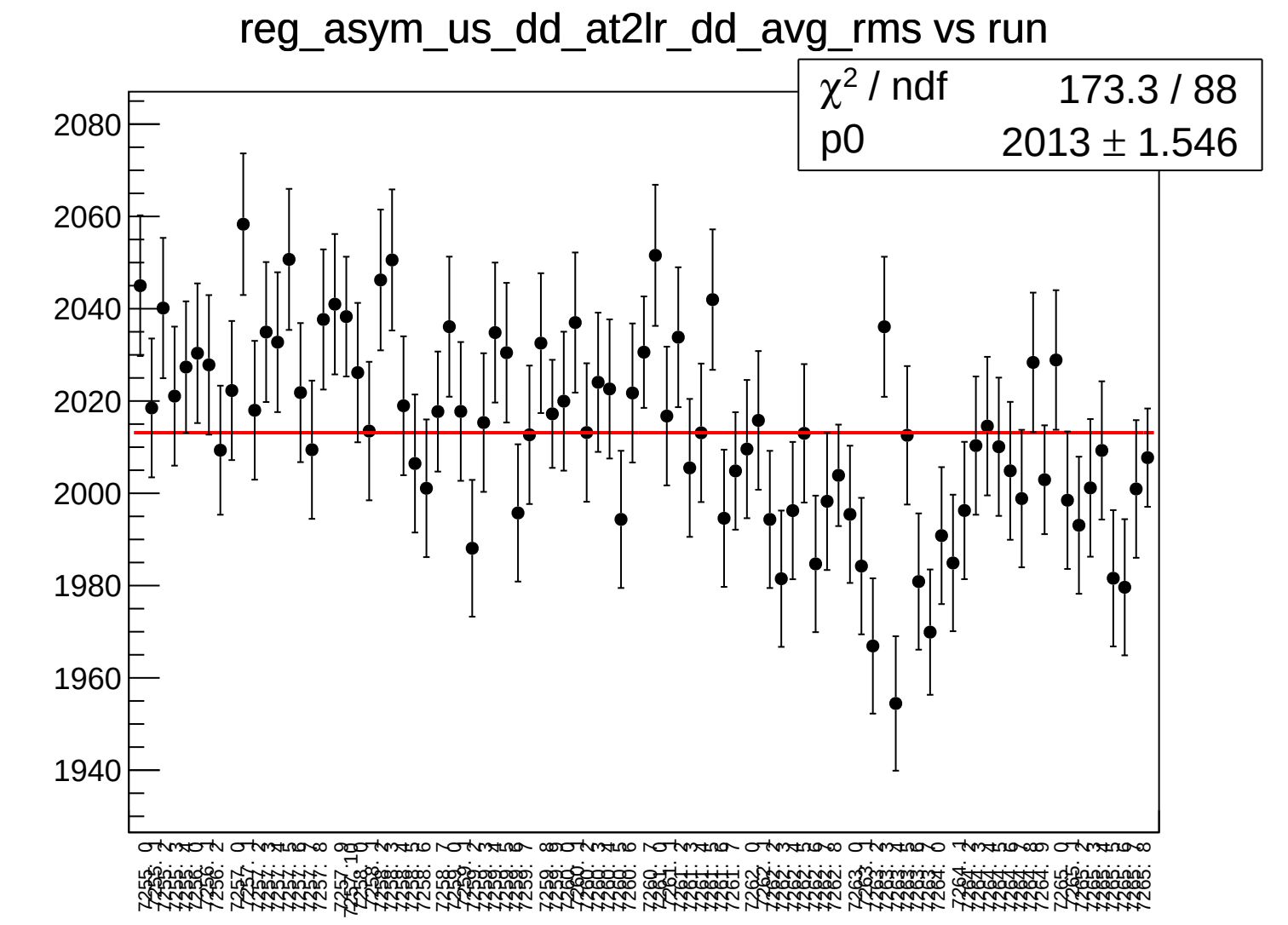

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.45 / 88
p0 1.113e−14 ± 1.37e−14
pull
Entries 89
Mean 63.96
Std Dev 25.44

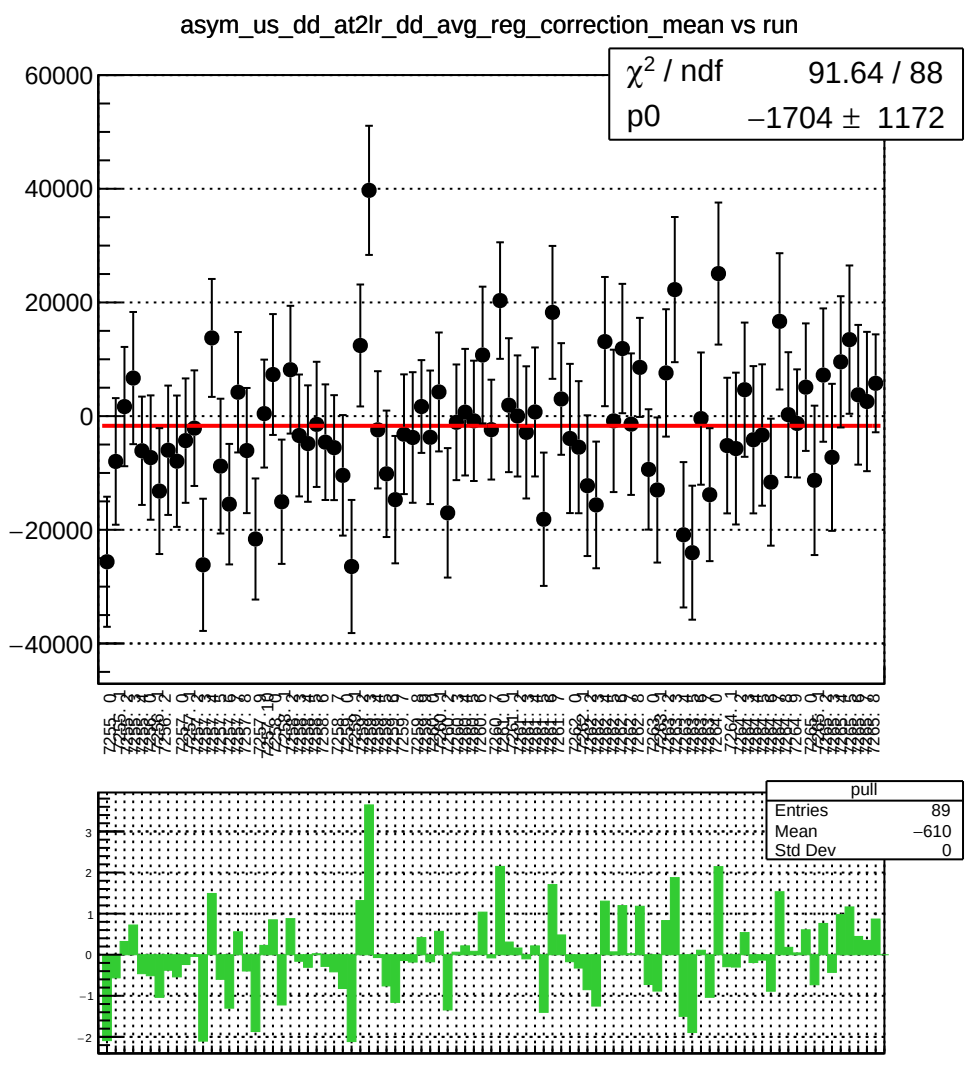

pull1D
Entries 89
Mean −0.05828
Std Dev 0.8751

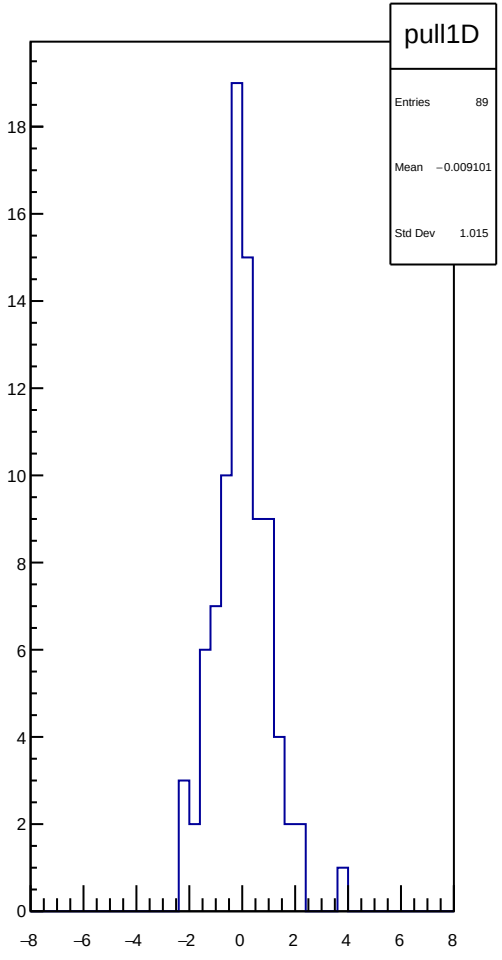

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.828e+05 / 88
p0 9.255e−12 ± 9.691e−15
70
60
50
40
30
20
10

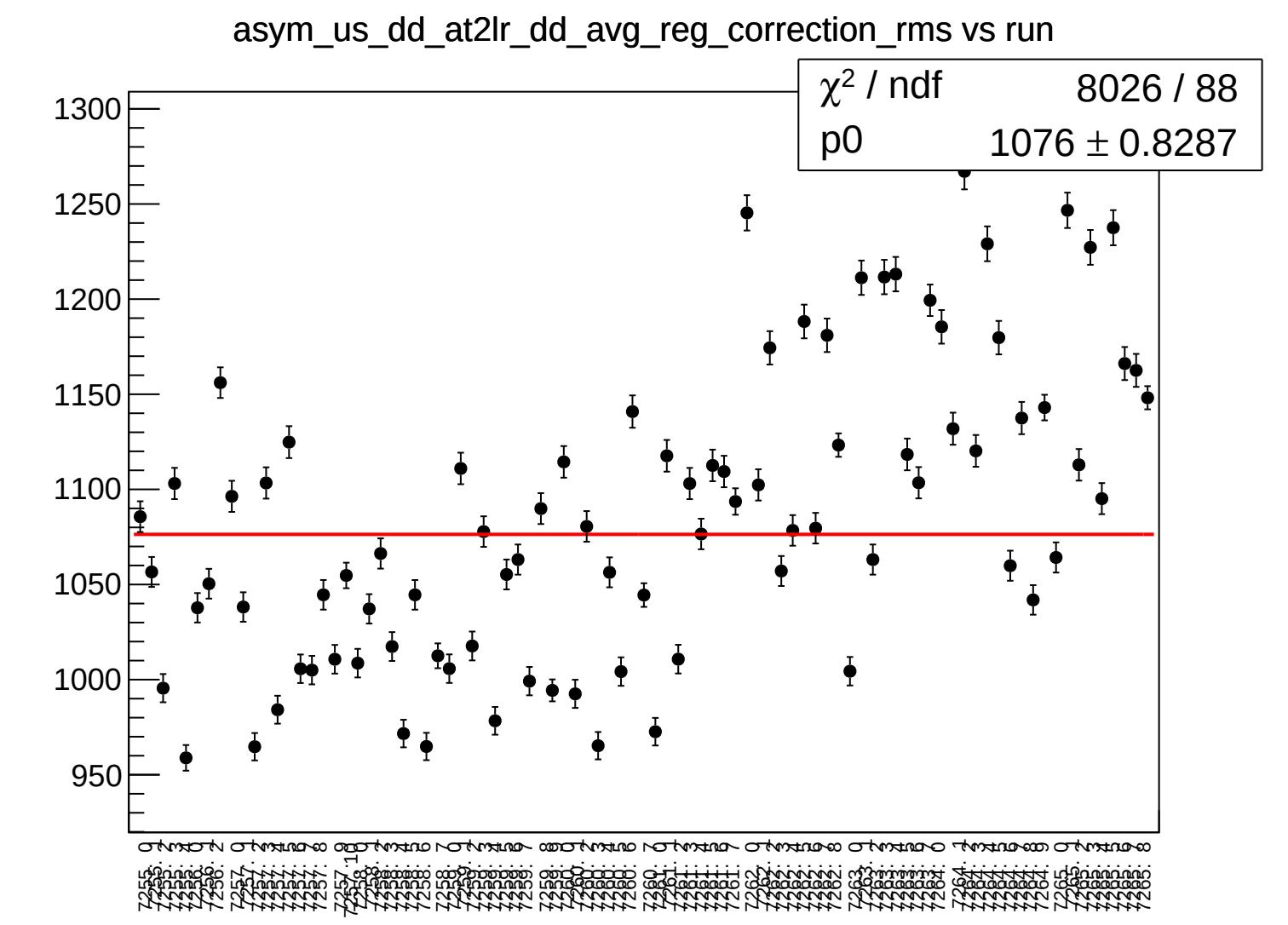

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 72.32 / 88
p0 1738 ± 2187
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 57.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

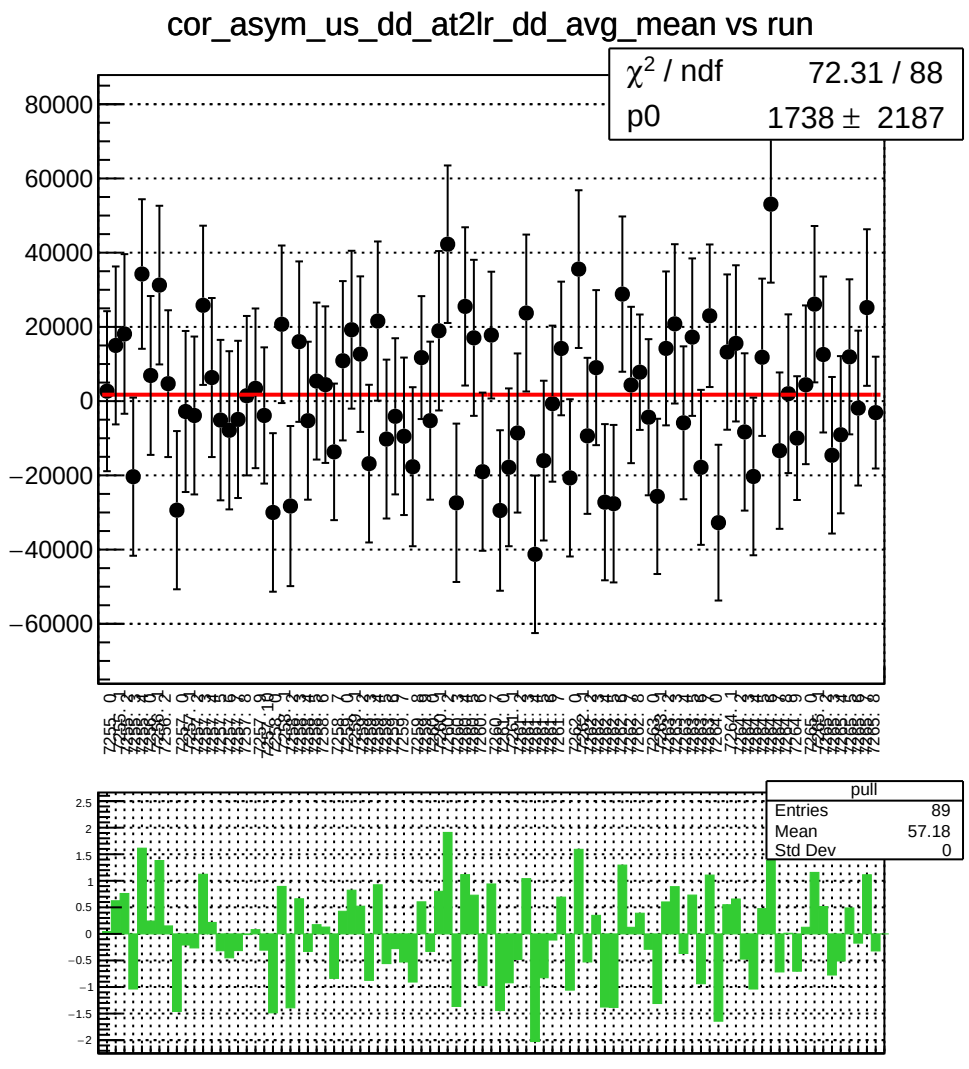

pull1D
Entries 89
Mean −0.004701
Std Dev 0.9014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

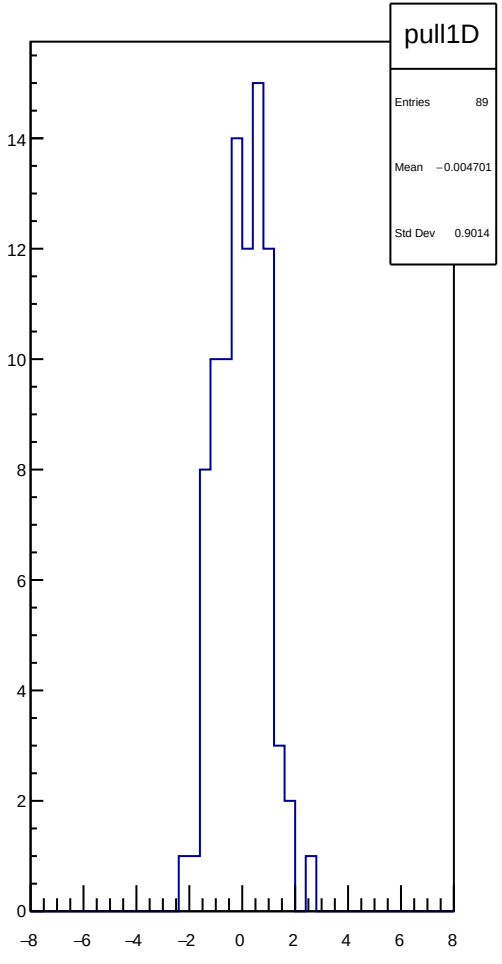

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 173.3 / 88
p0 2013 ± 1.546
2080
2060
2040
2020
2000
1980
1960
1940

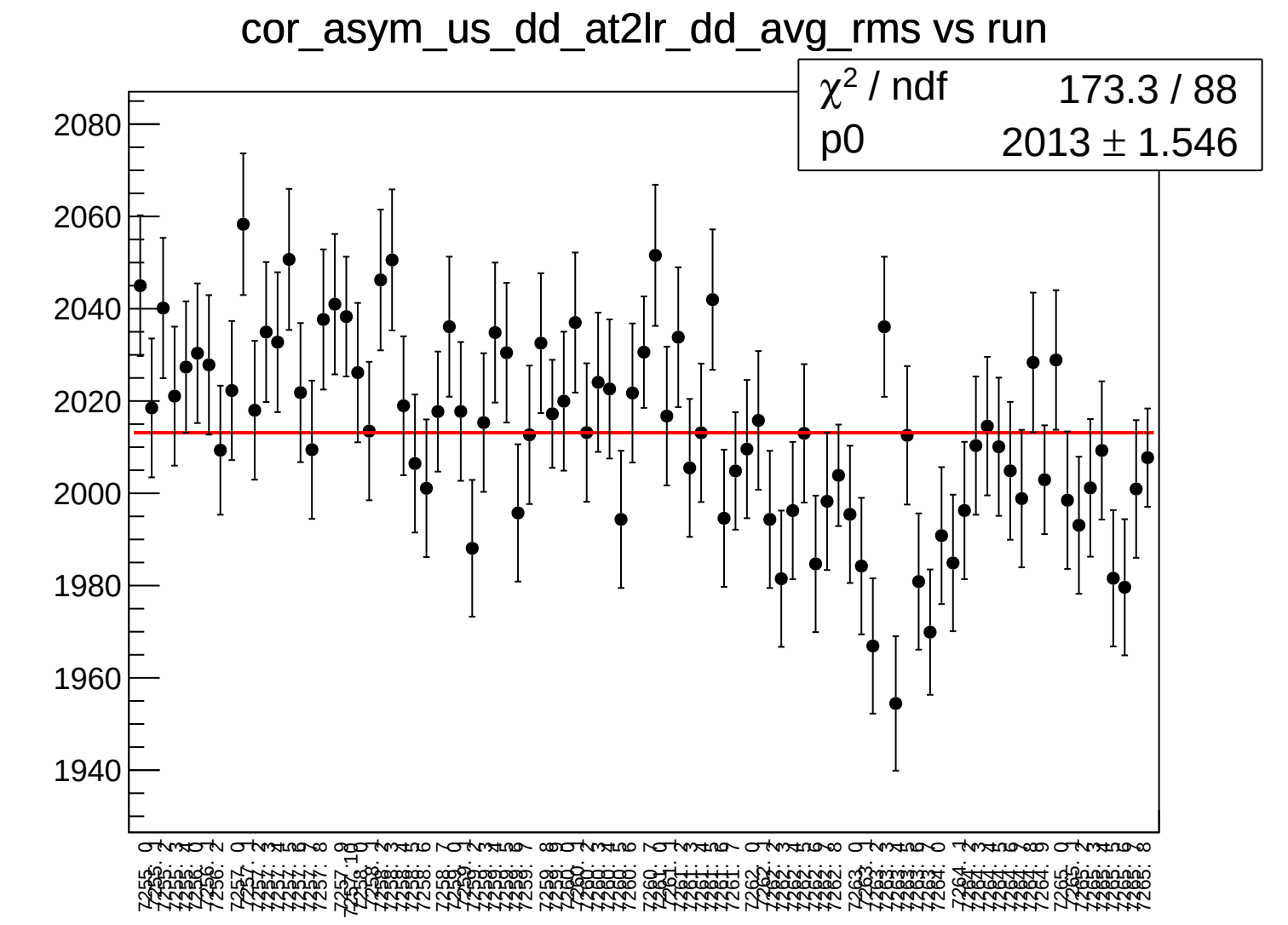

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 91.64 / 88
p0 −1704 ± 1172
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −610
Std Dev 0
3
2
1
0
−1
−2

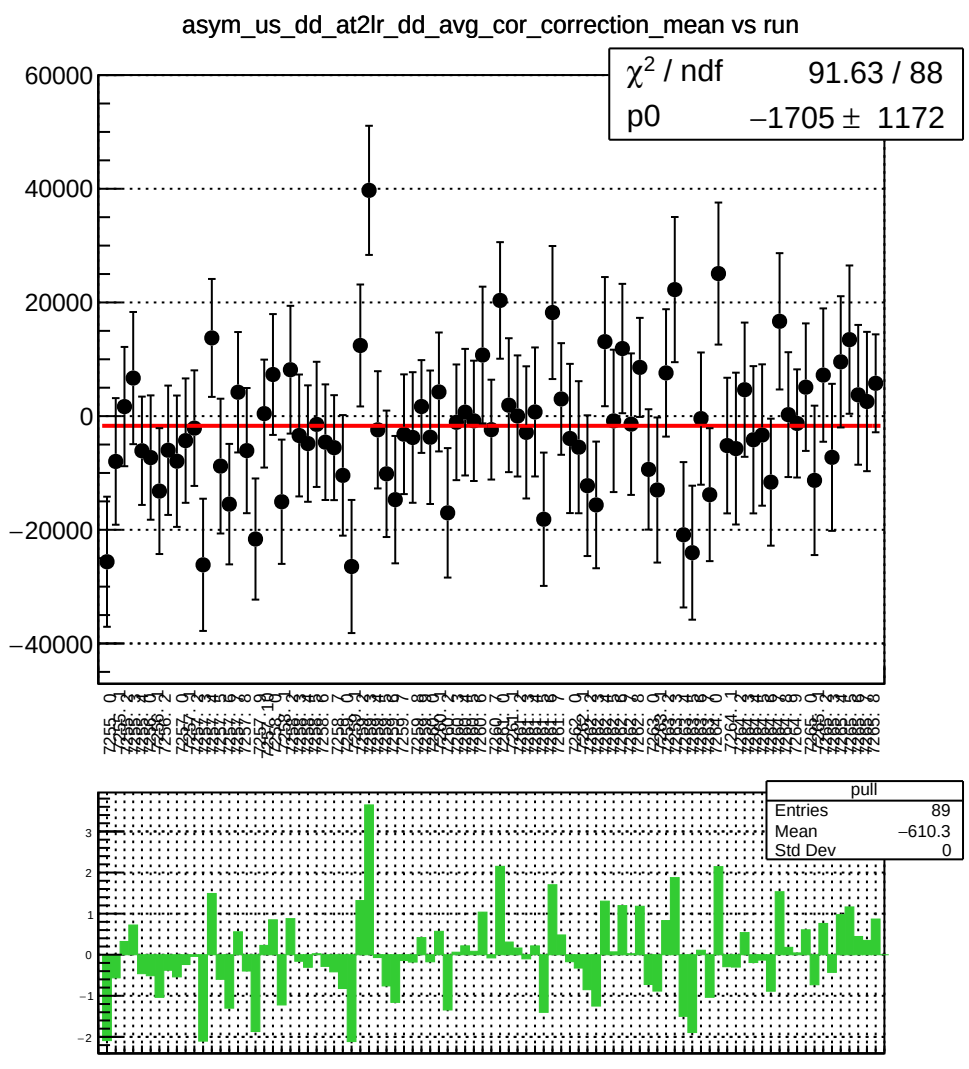

pull1D
Entries 89
Mean −0.009101
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

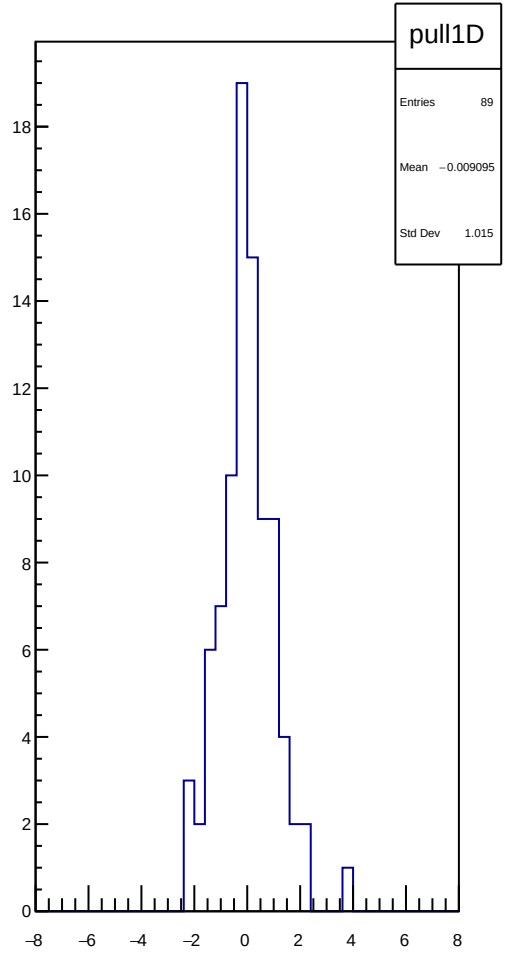

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 8026 / 88
p0 1076 ± 0.8287
1300
1250
1200
1150
1100
1050
1000
950

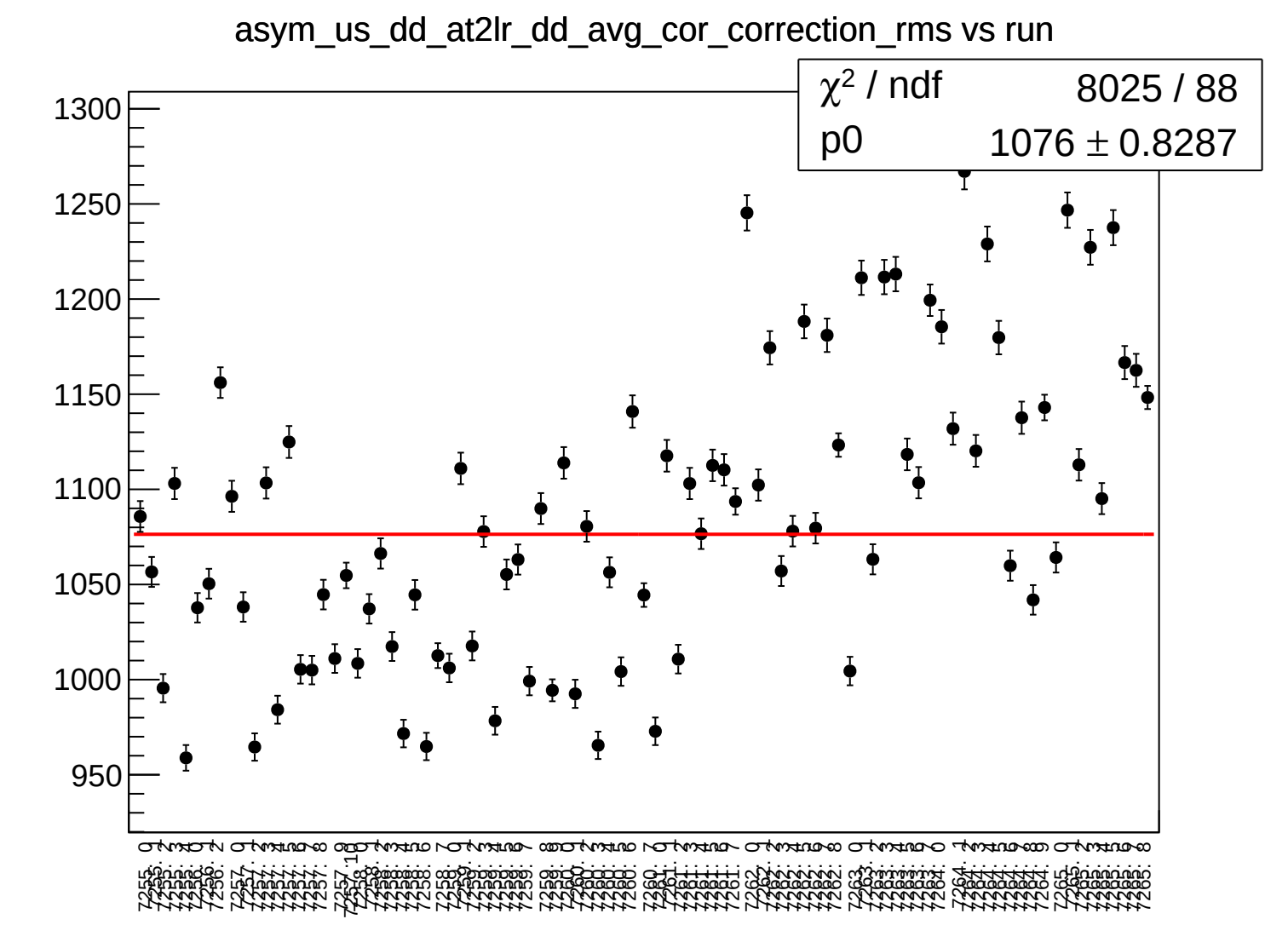

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 72.31 / 88
p0 1738 ± 2187
pull
Entries 89
Mean 57.18
Std Dev 0

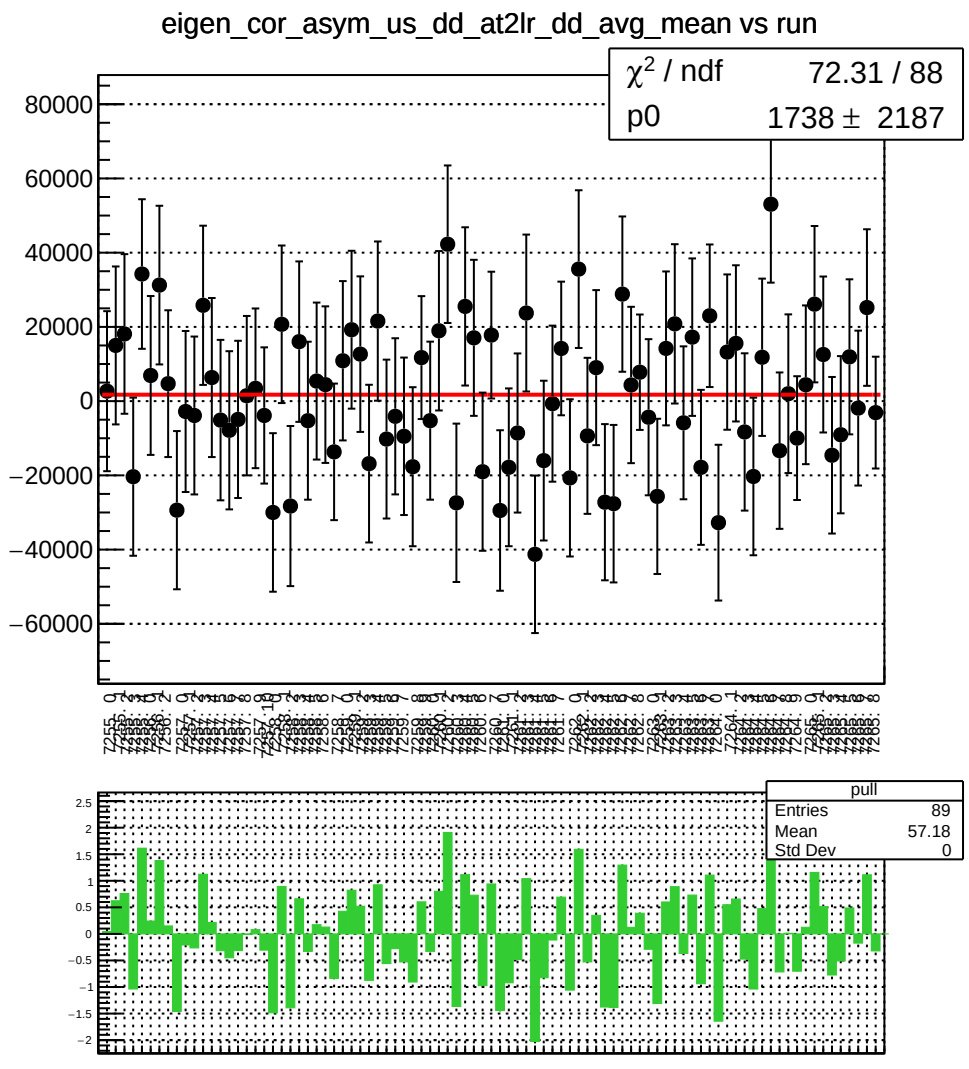

pull1D
Entries 89
Mean −0.004701
Std Dev 0.9014

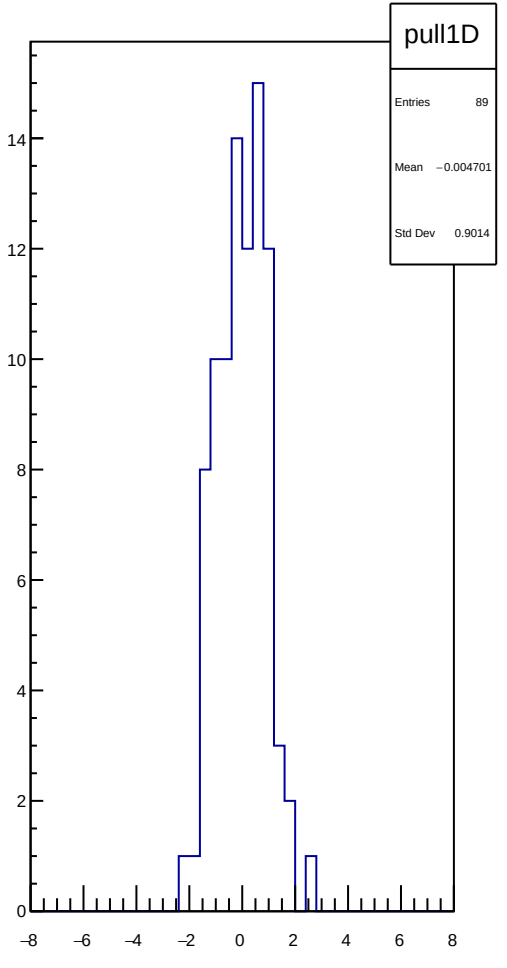

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 173.3 / 88
p0 2013 ± 1.546
2080
2060
2040
2020
2000
1980
1960
1940

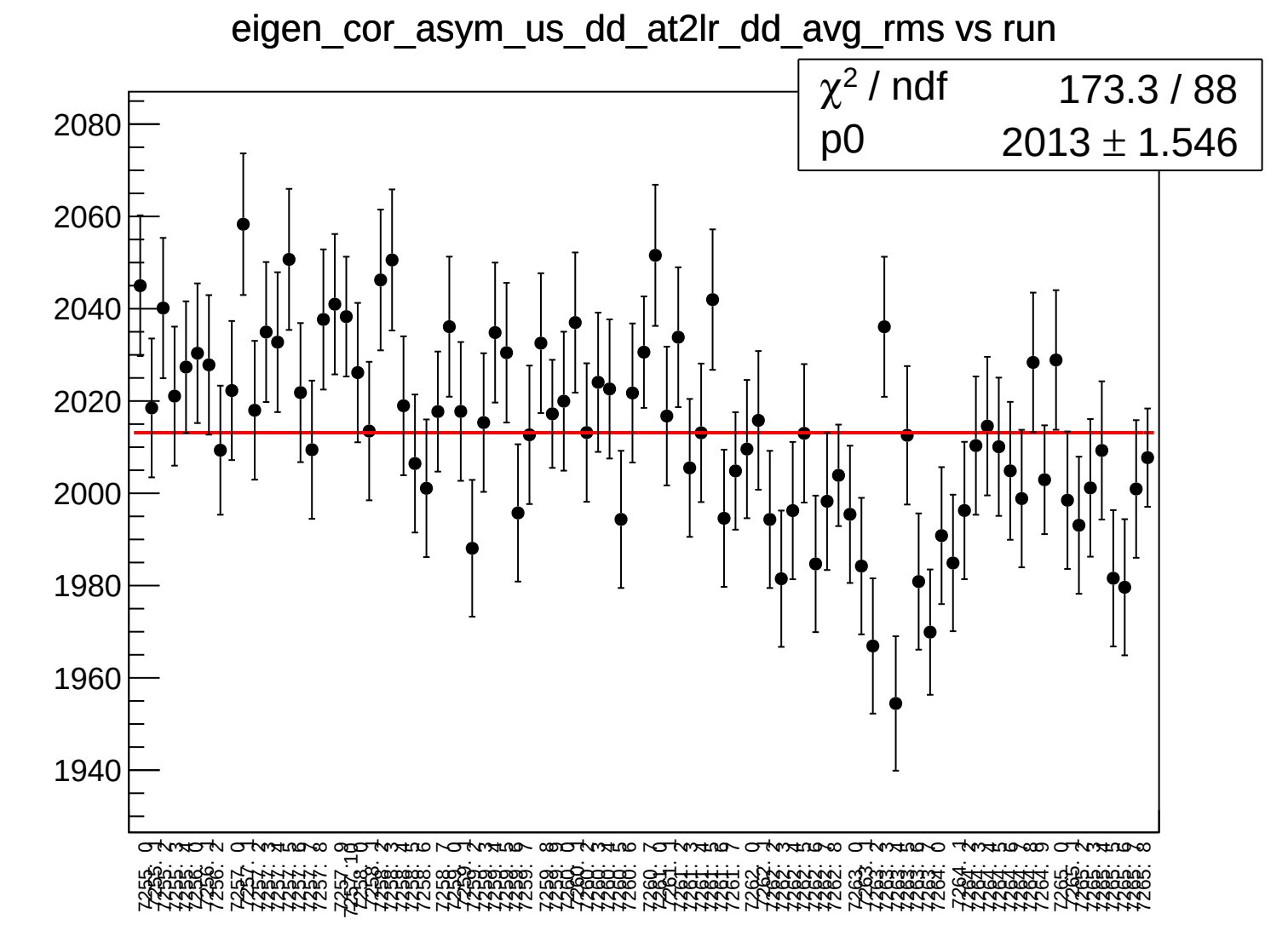

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 91.63 / 88
p0 −1705 ± 1172
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −610.3
Std Dev 0
3
2
1
0
−1
−2

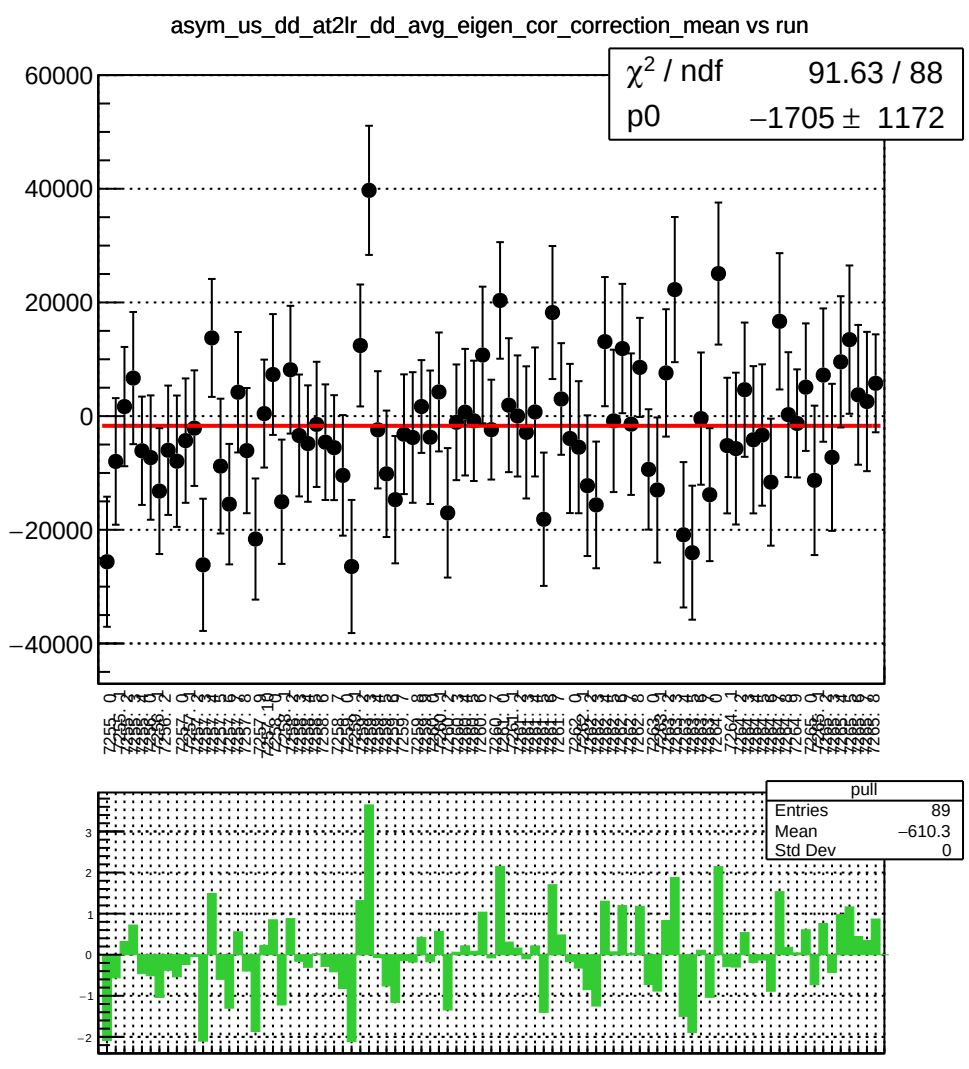

pull1D
Entries 89
Mean −0.009095
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

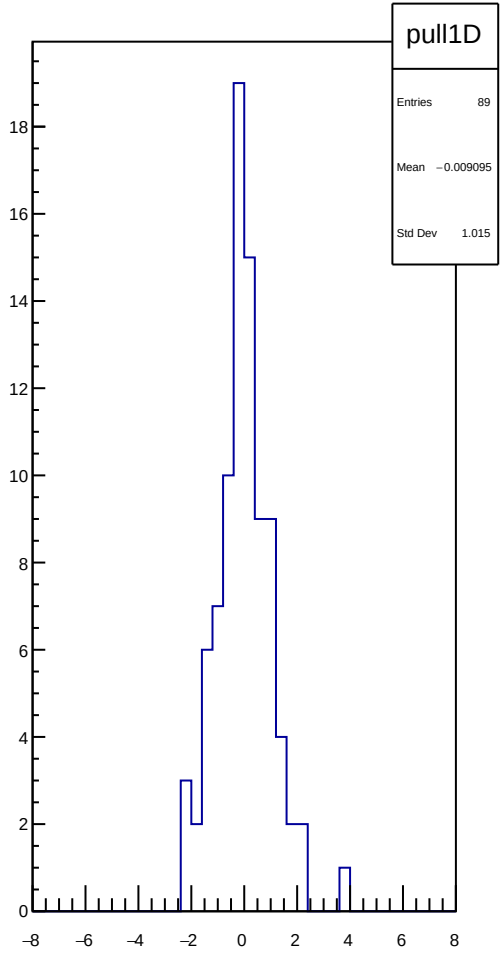

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 8025 / 88
p0 1076 ± 0.8287
1300
1250
1200
1150
1100
1050
1000
950

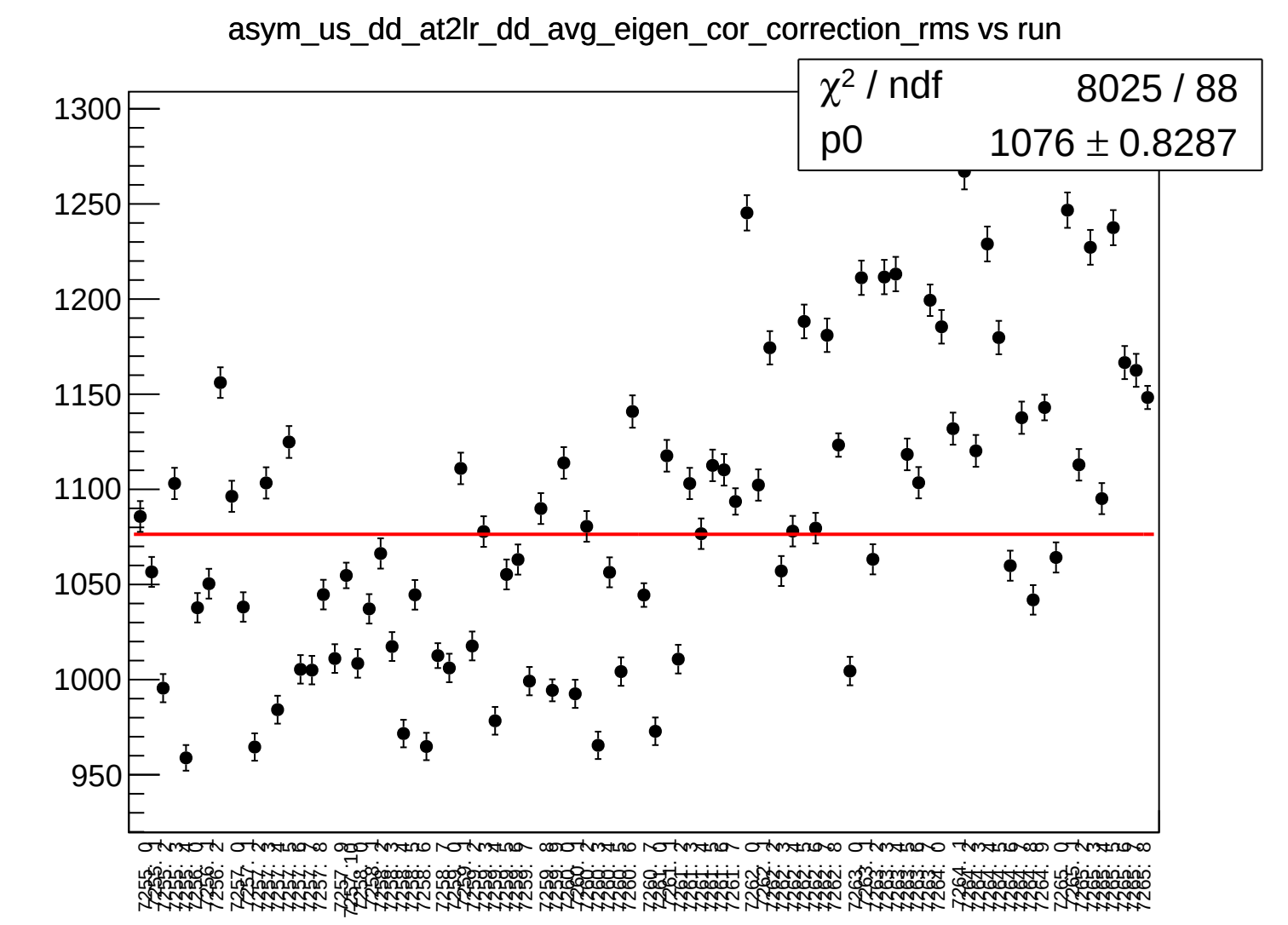

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 72.31 / 88
p0 1738 ± 2187
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 57.18
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

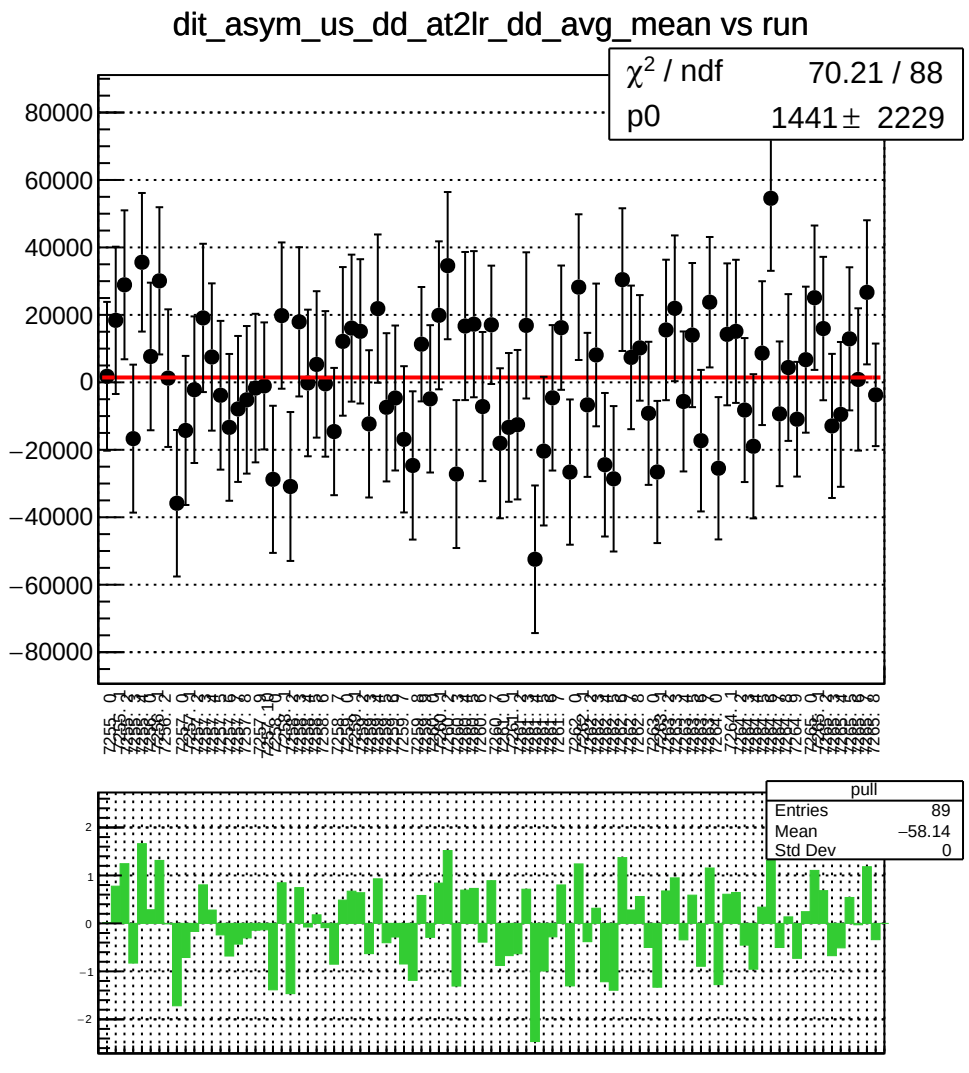

pull1D
Entries 89
Mean −0.004701
Std Dev 0.9014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

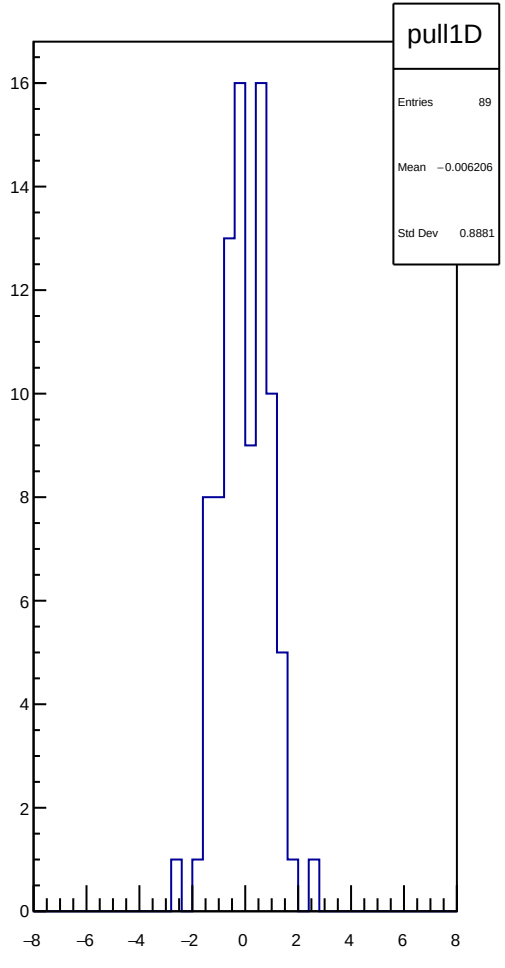

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 173.3 / 88
p0 2013 ± 1.546
2080
2060
2040
2020
2000
1980
1960
1940

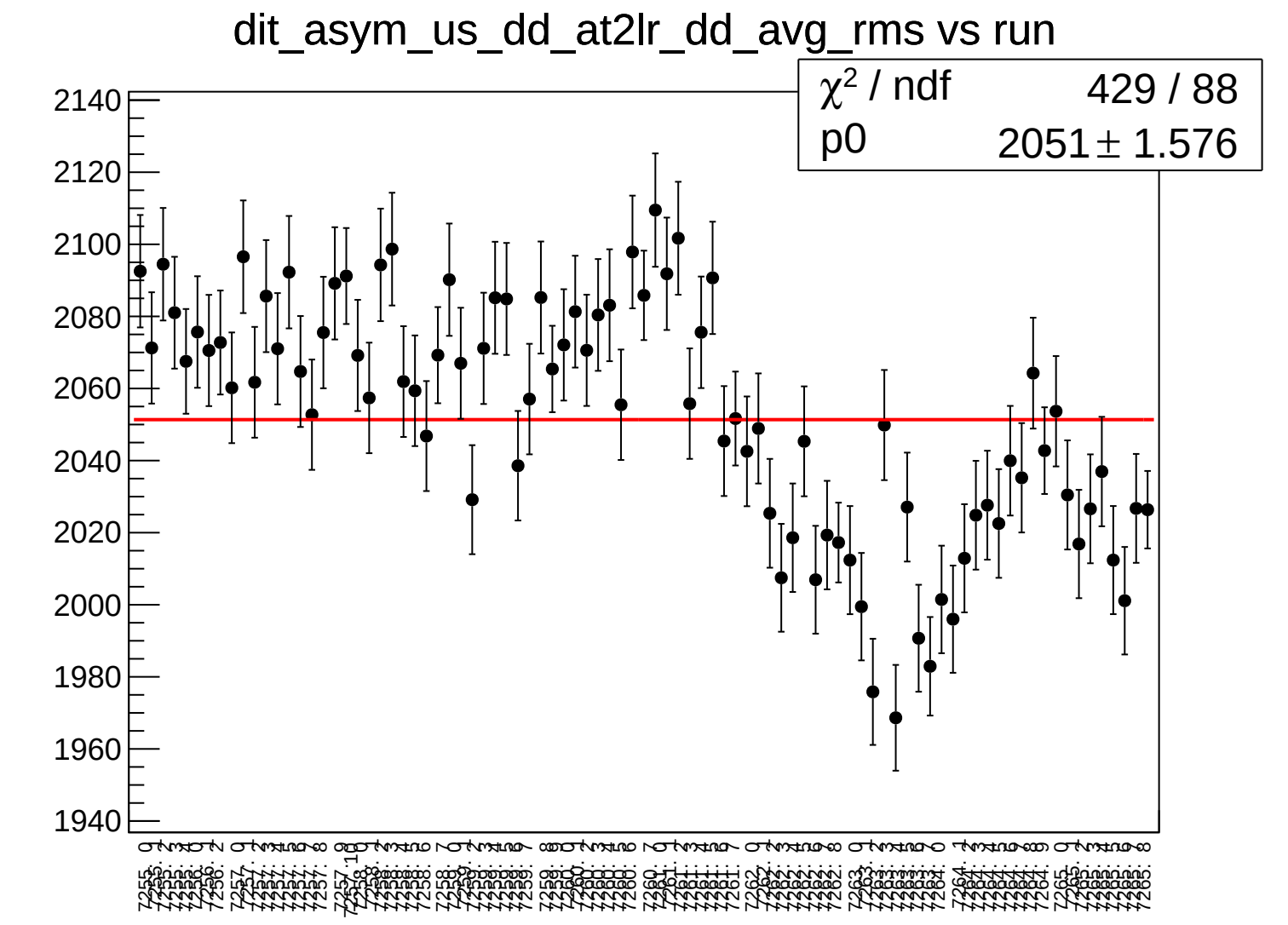

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.63 / 88
p0 −1705 ± 1172
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −610.3
Std Dev 0
3
2
1
0
−1
−2

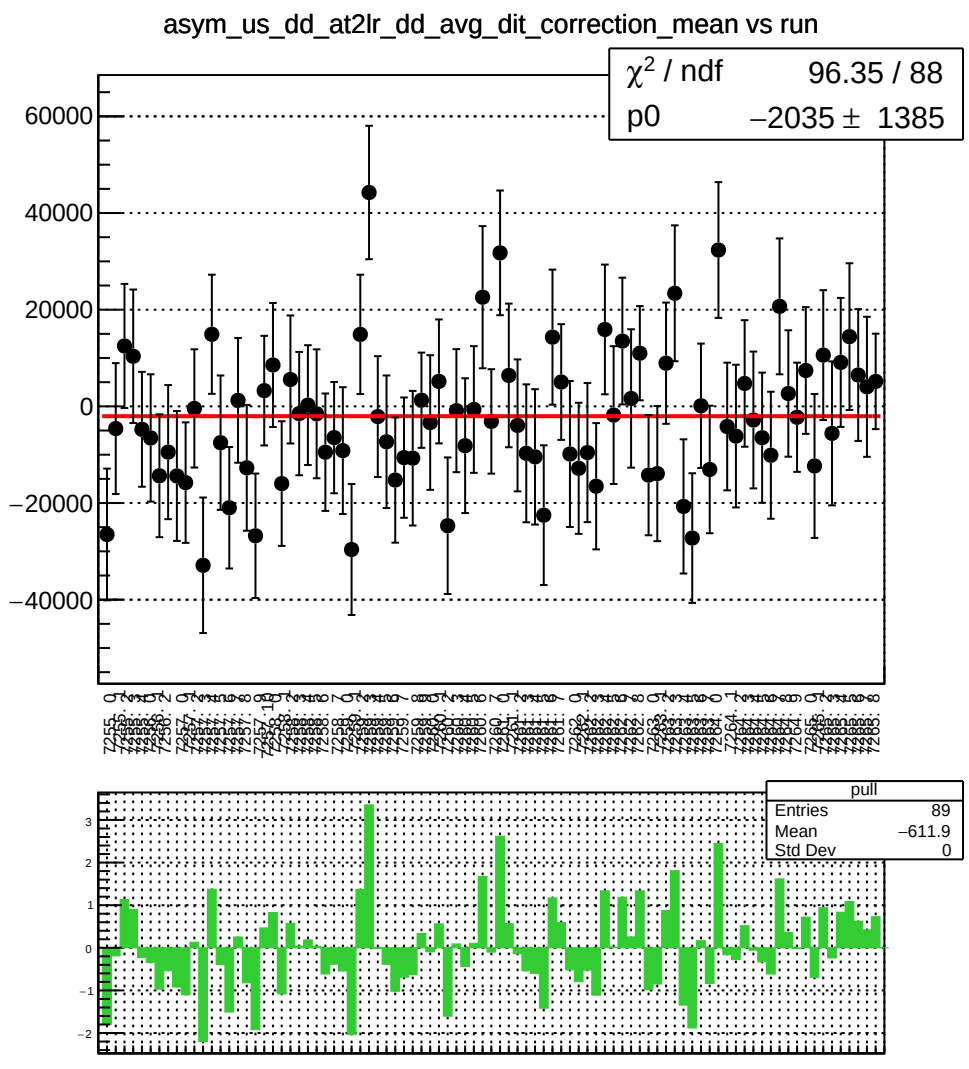

pull1D
Entries 89
Mean −0.009095
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

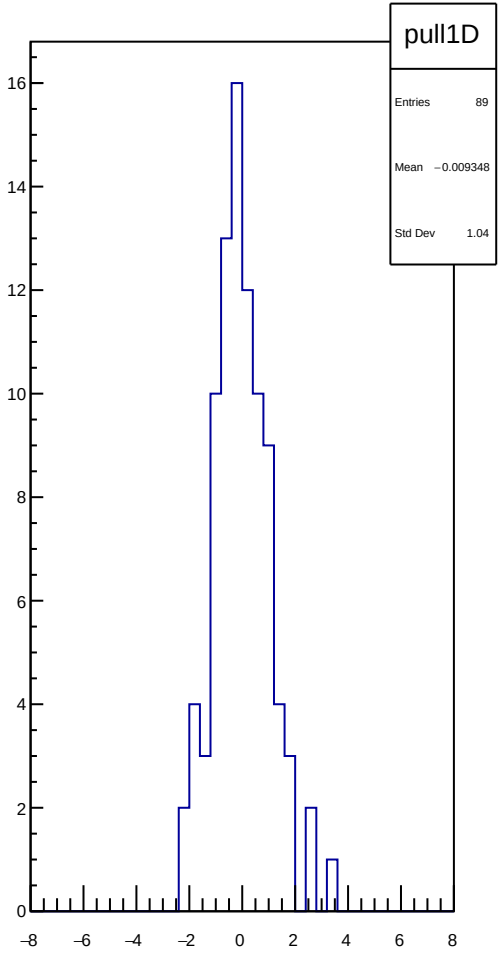

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8025 / 88
p0 1076 ± 0.8287
1300
1250
1200
1150
1100
1050
1000
950

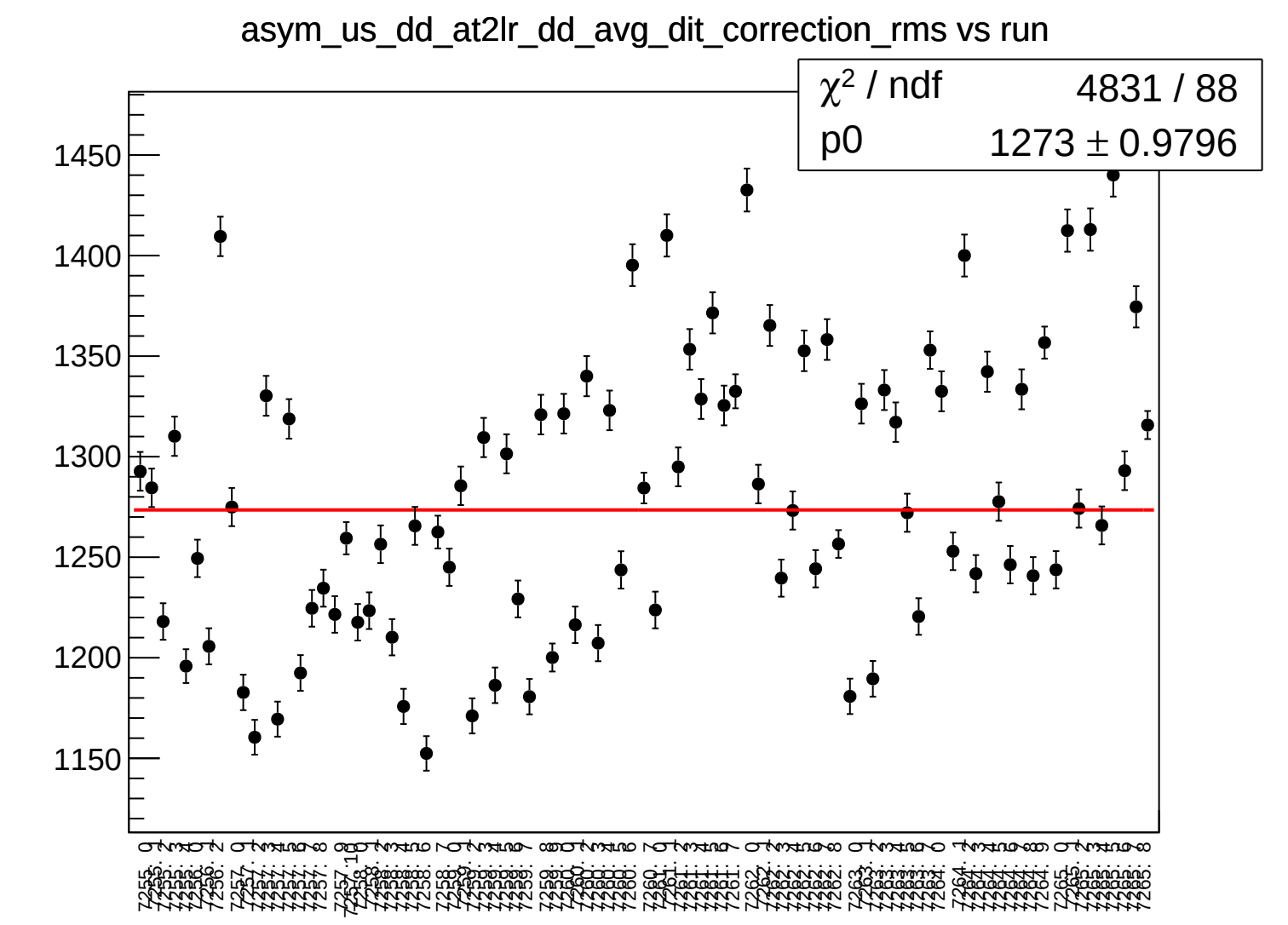

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 70.21 / 88
p0 1441 ± 2229
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −58.14
Std Dev 0
2
1
0
−1
−2

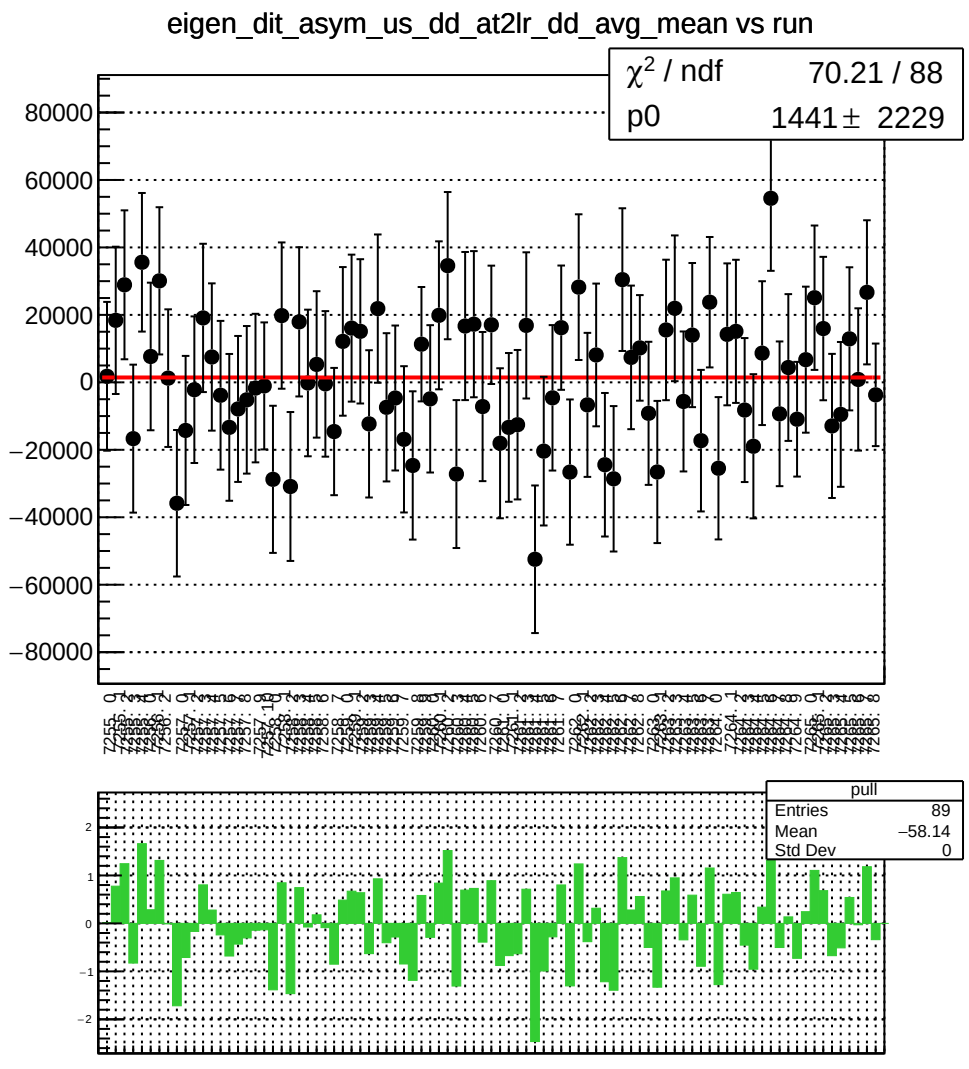

pull1D
Entries 89
Mean −0.006206
Std Dev 0.8881
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

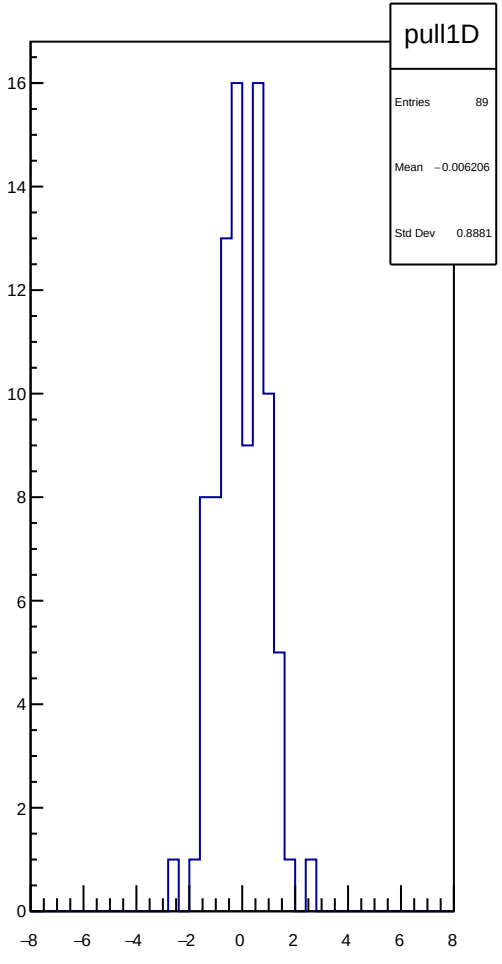

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 429 / 88
p0 2051 ± 1.576
2140
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940

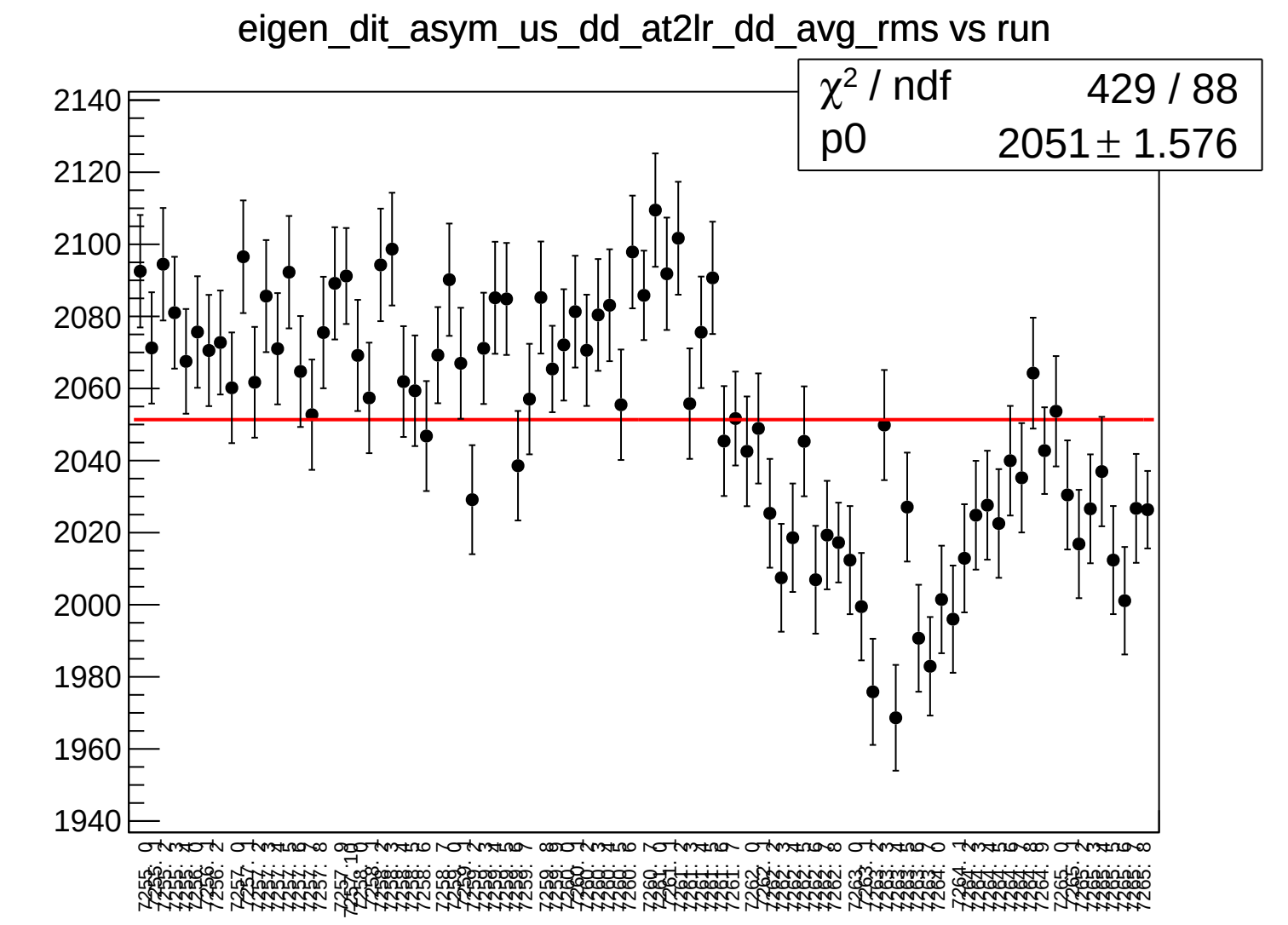

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 96.35 / 88
p0 −2035 ± 1385
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −611.9
Std Dev 0
3
2
1
0
−1
−2

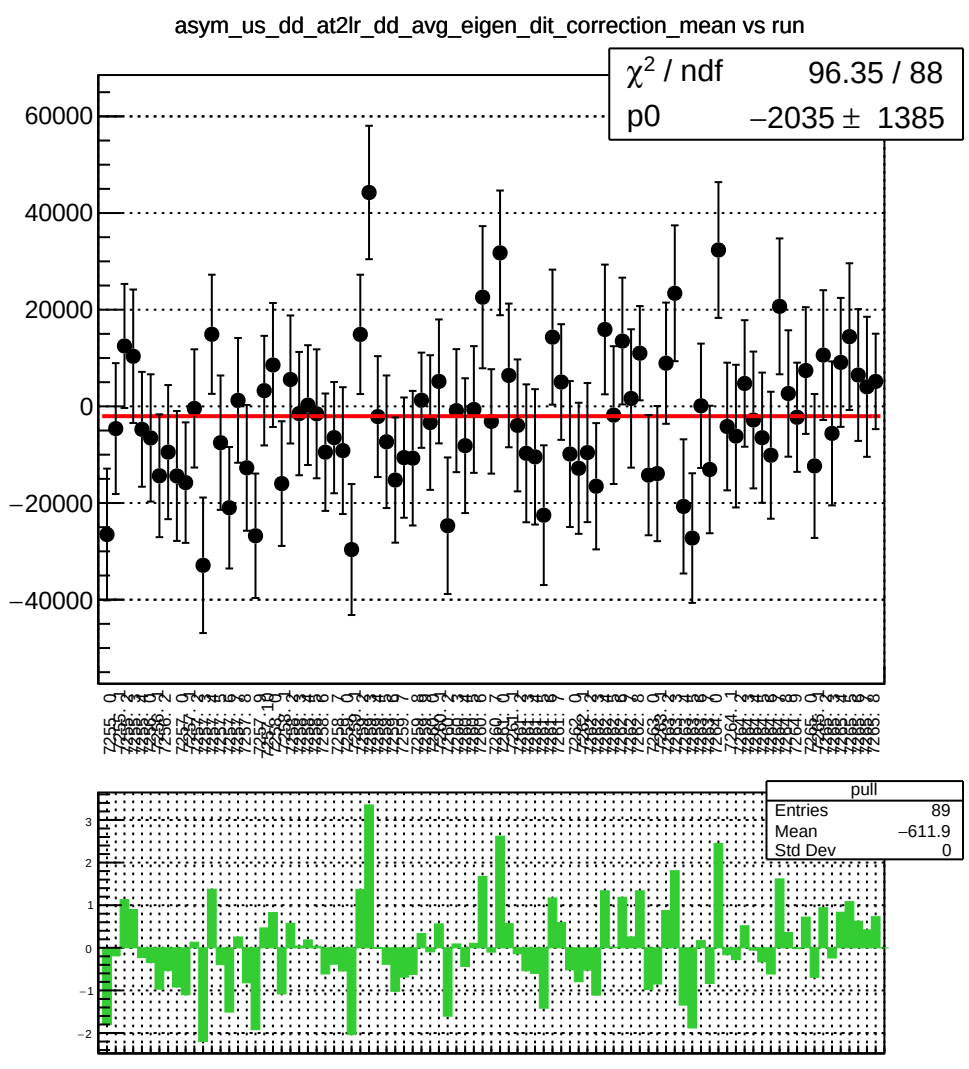

pull1D
Entries 89
Mean −0.009348
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

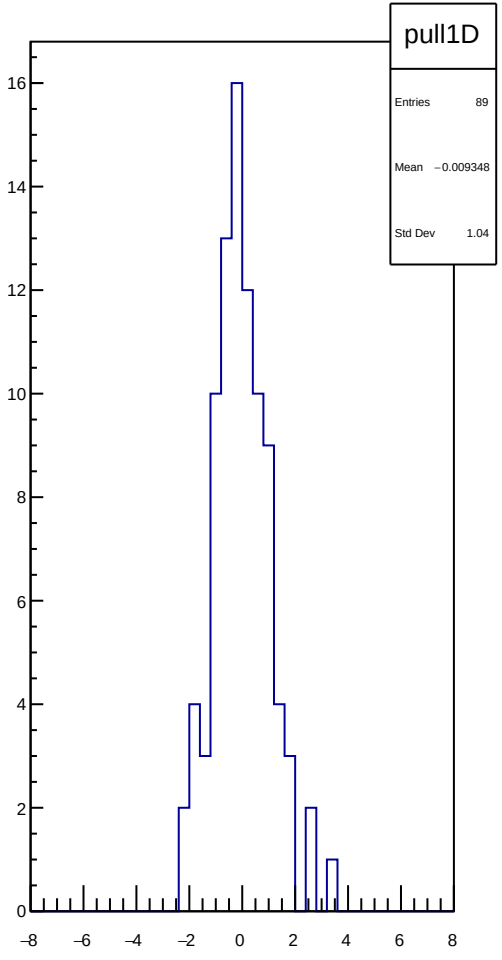

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 4831 / 88
p0 1273 ± 0.9796
1450
1400
1350
1300
1250
1200
1150

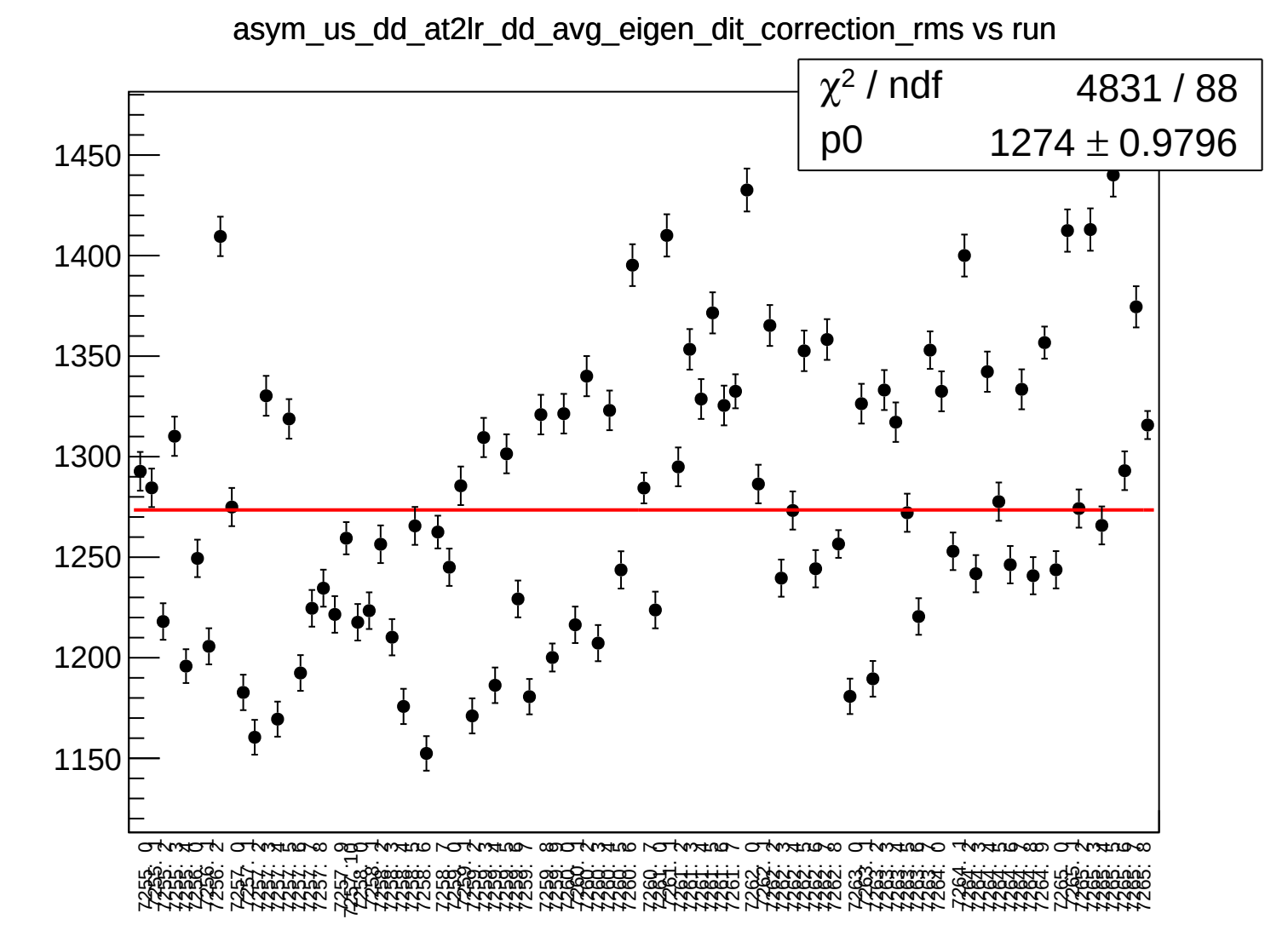

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 70.21 / 88
p0 1441 ± 2229
pull
Entries 89
Mean −58.14
Std Dev 0

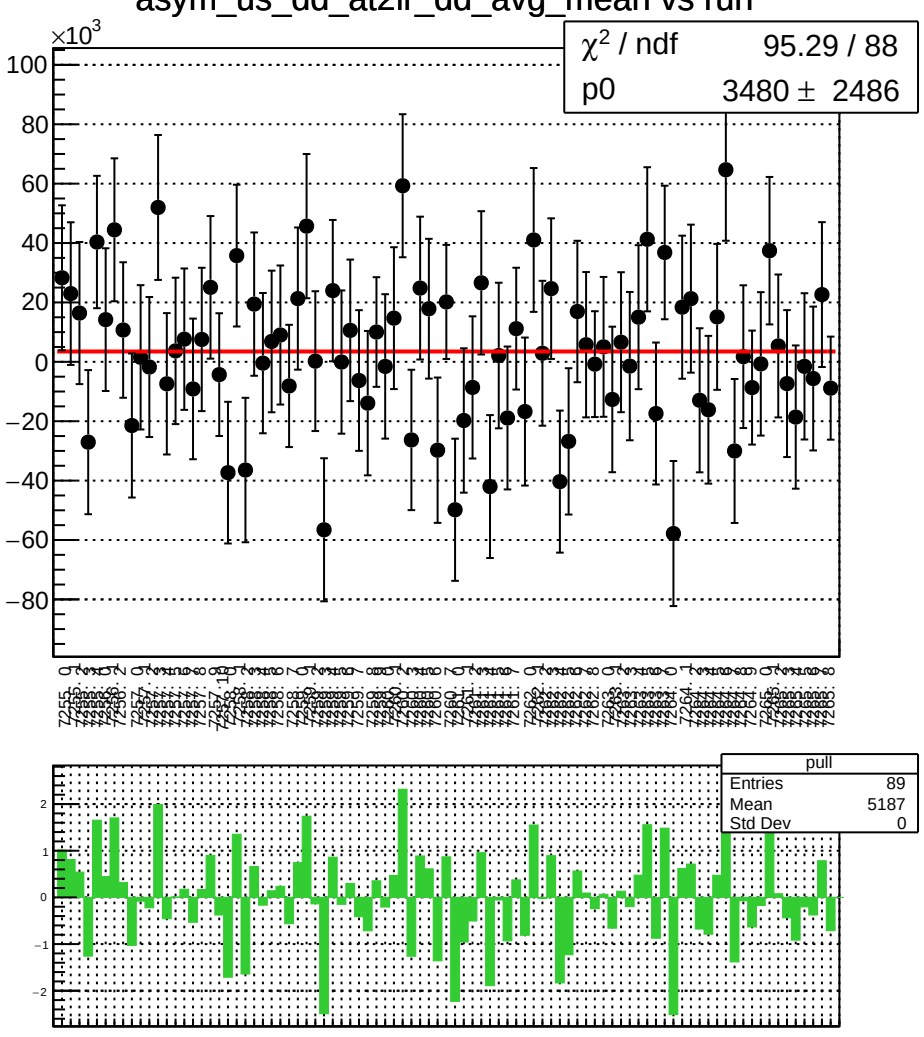

pull1D
Entries 89
Mean −0.006206
Std Dev 0.8881

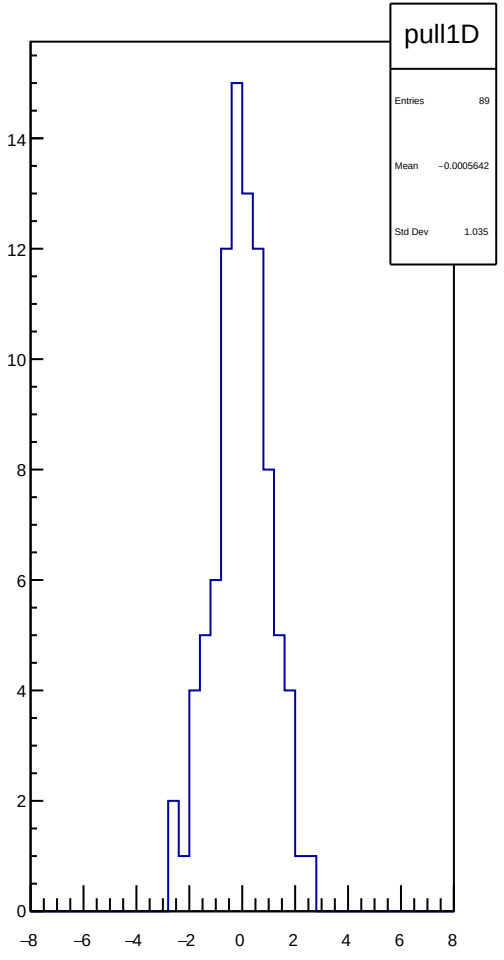

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 429 / 88
p0 2051 ± 1.576
2140
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940

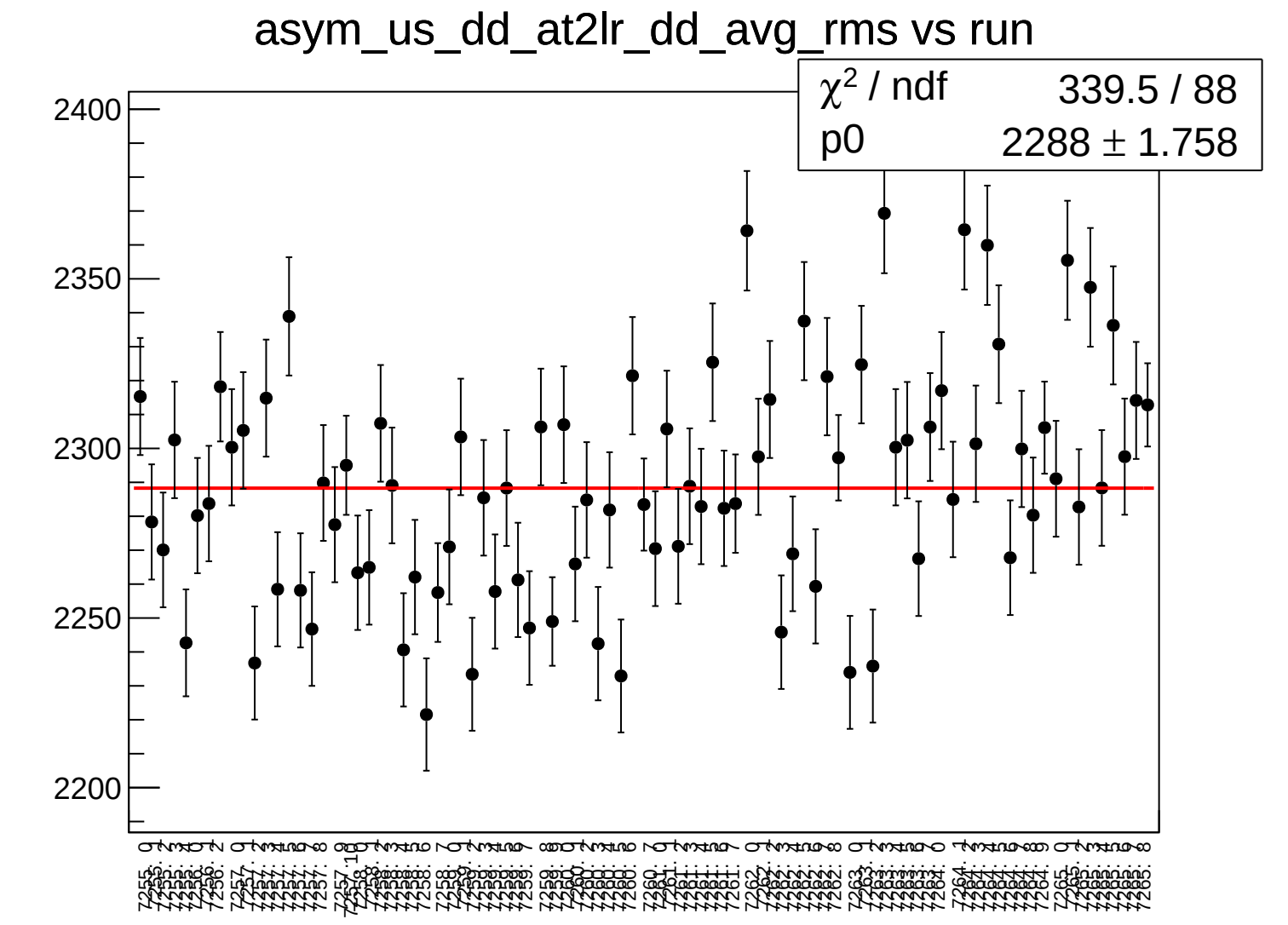

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.35 / 88
p0 −2035 ± 1385
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −611.9
Std Dev 0
3
2
1
0
−1
−2

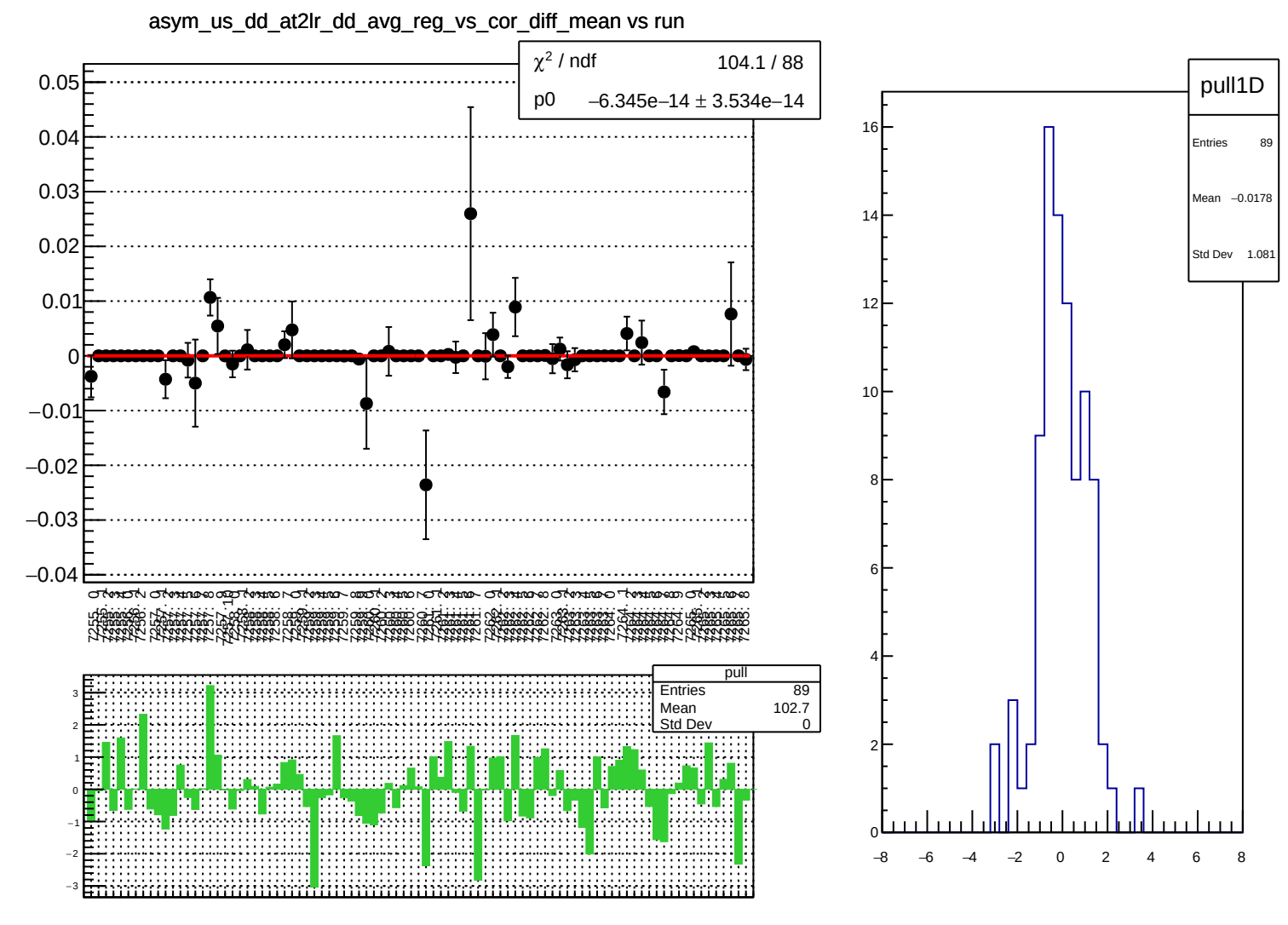

pull1D
Entries 89
Mean −0.009348
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

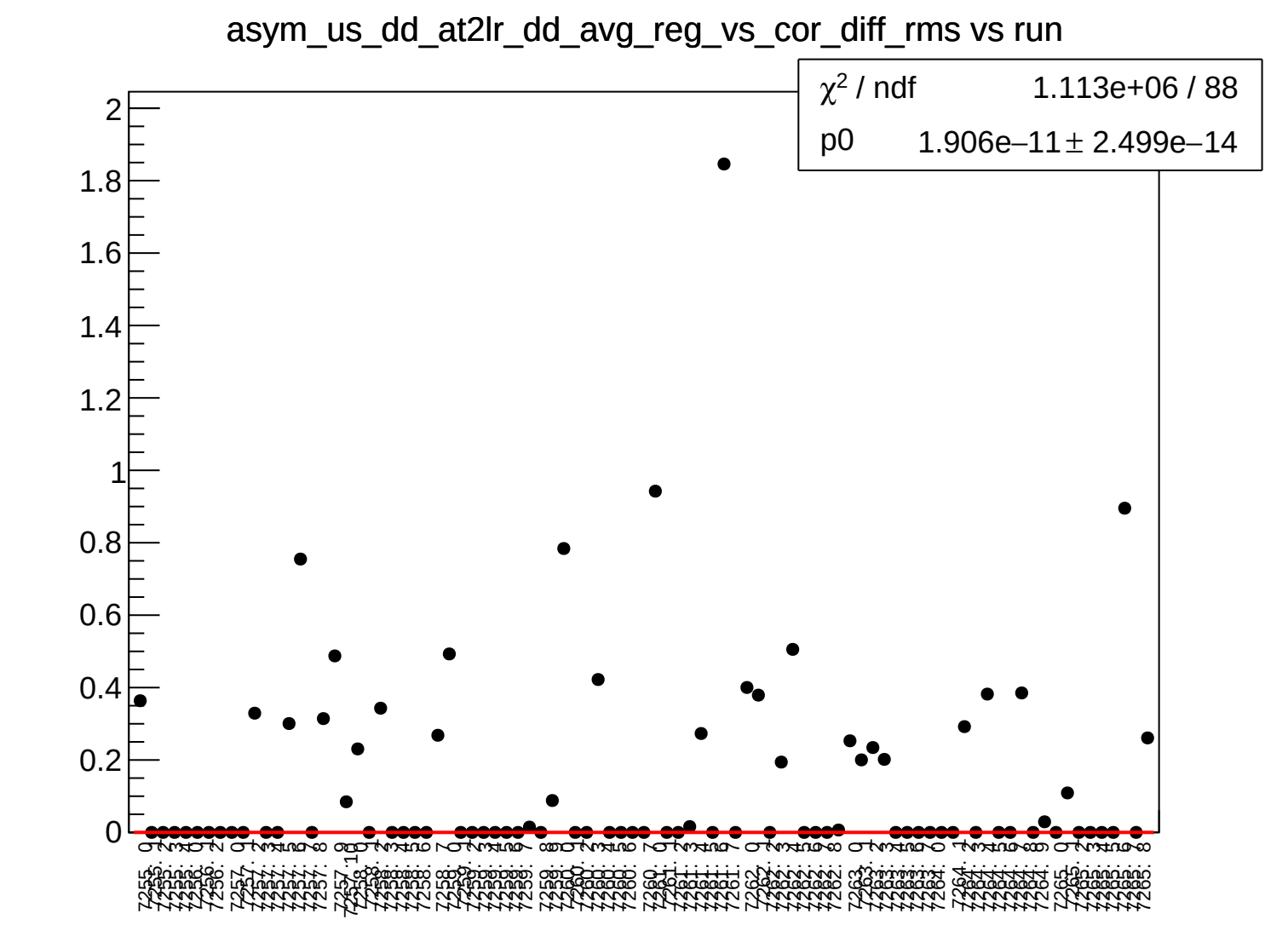

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4831 / 88
p0 1274 ± 0.9796
1450
1400
1350
1300
1250
1200
1150

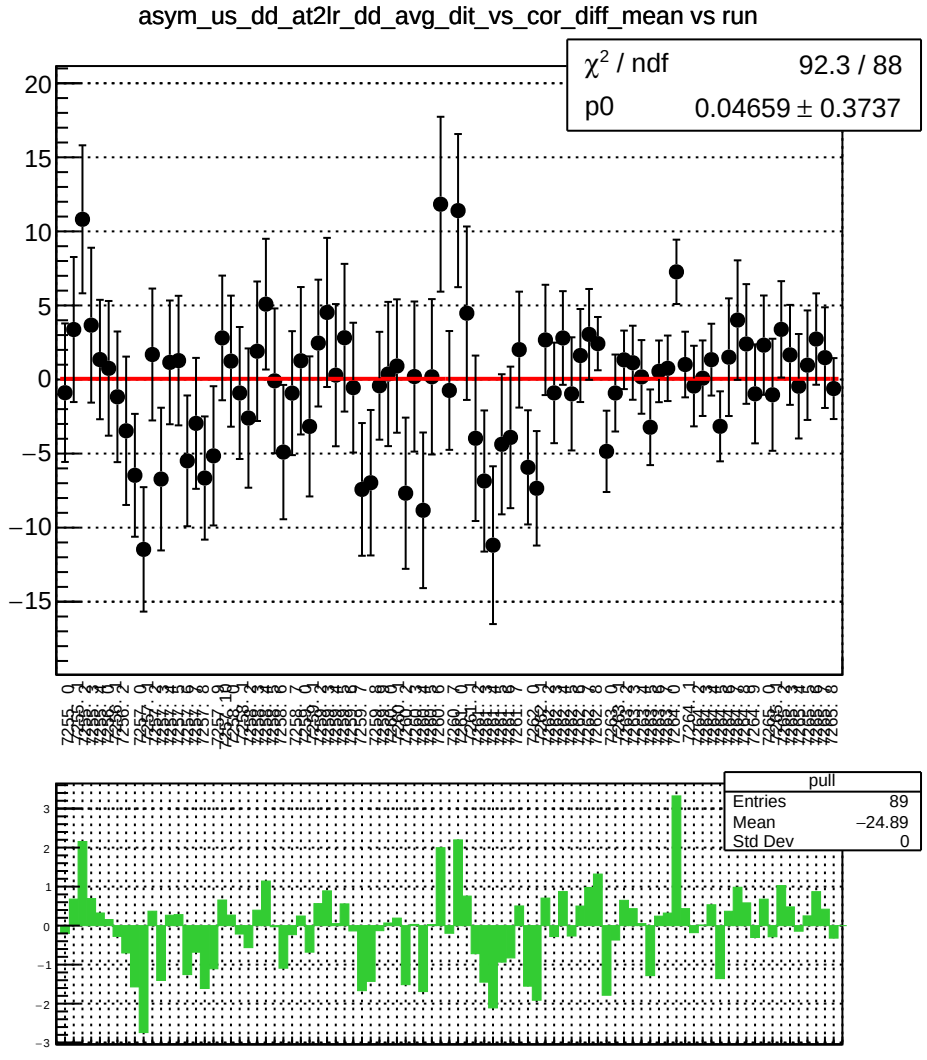

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 95.29 / 88
p0 3480 ± 2486
pull
Entries 89
Mean 5187
Std Dev 0

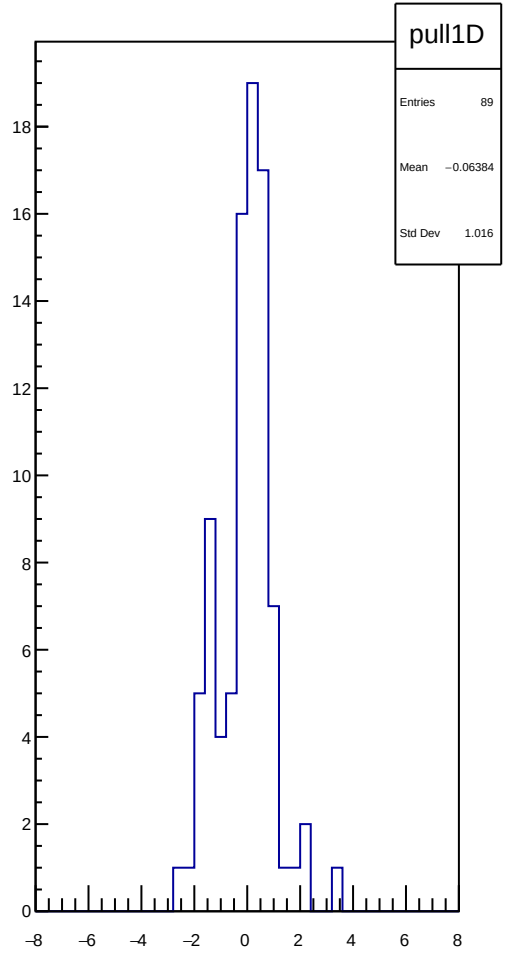

pull1D
Entries 89
Mean −0.0005642
Std Dev 1.035

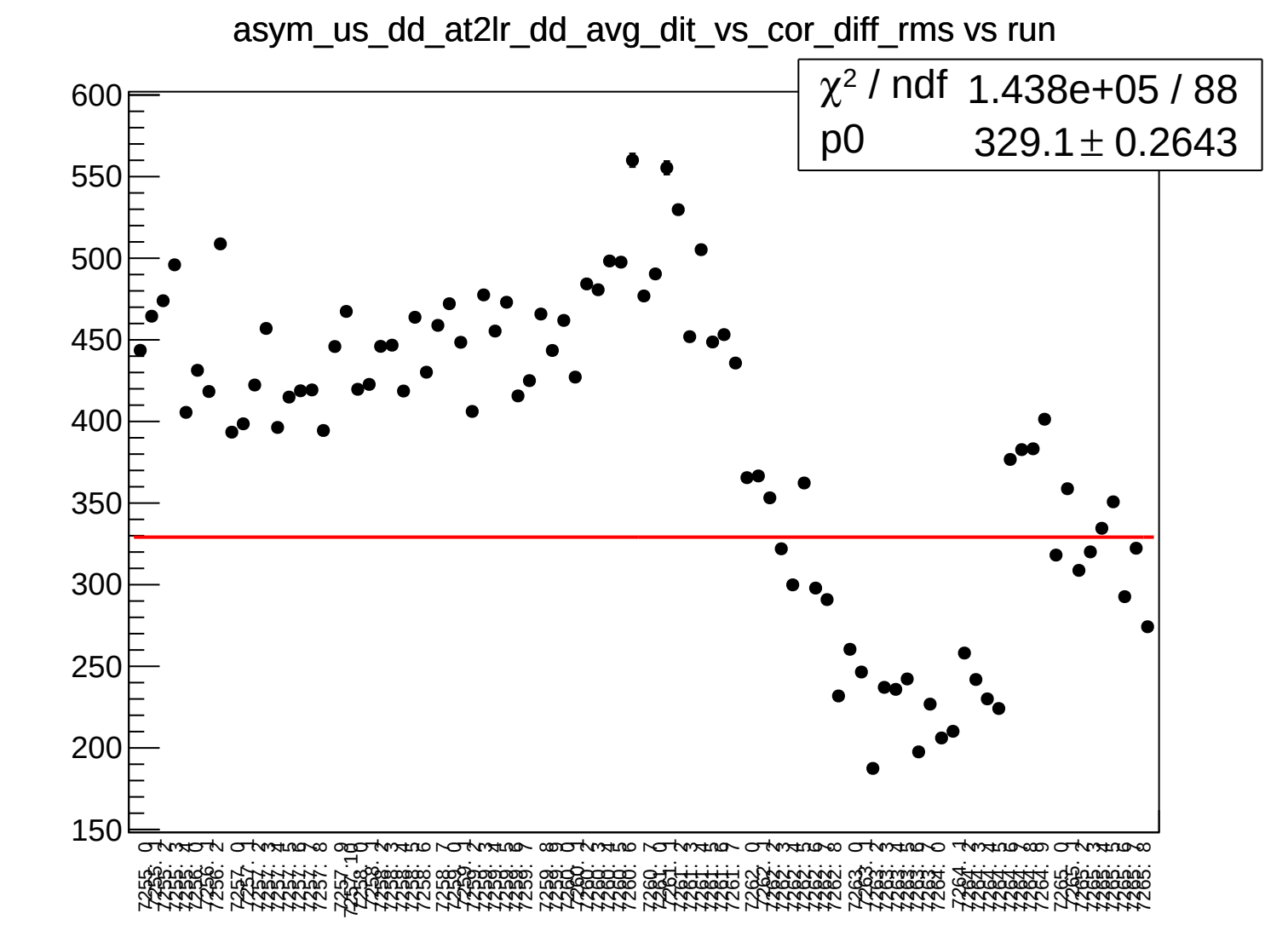

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 339.5 / 88
p0 2288 ± 1.758
2400
2350
2300
2250
2200

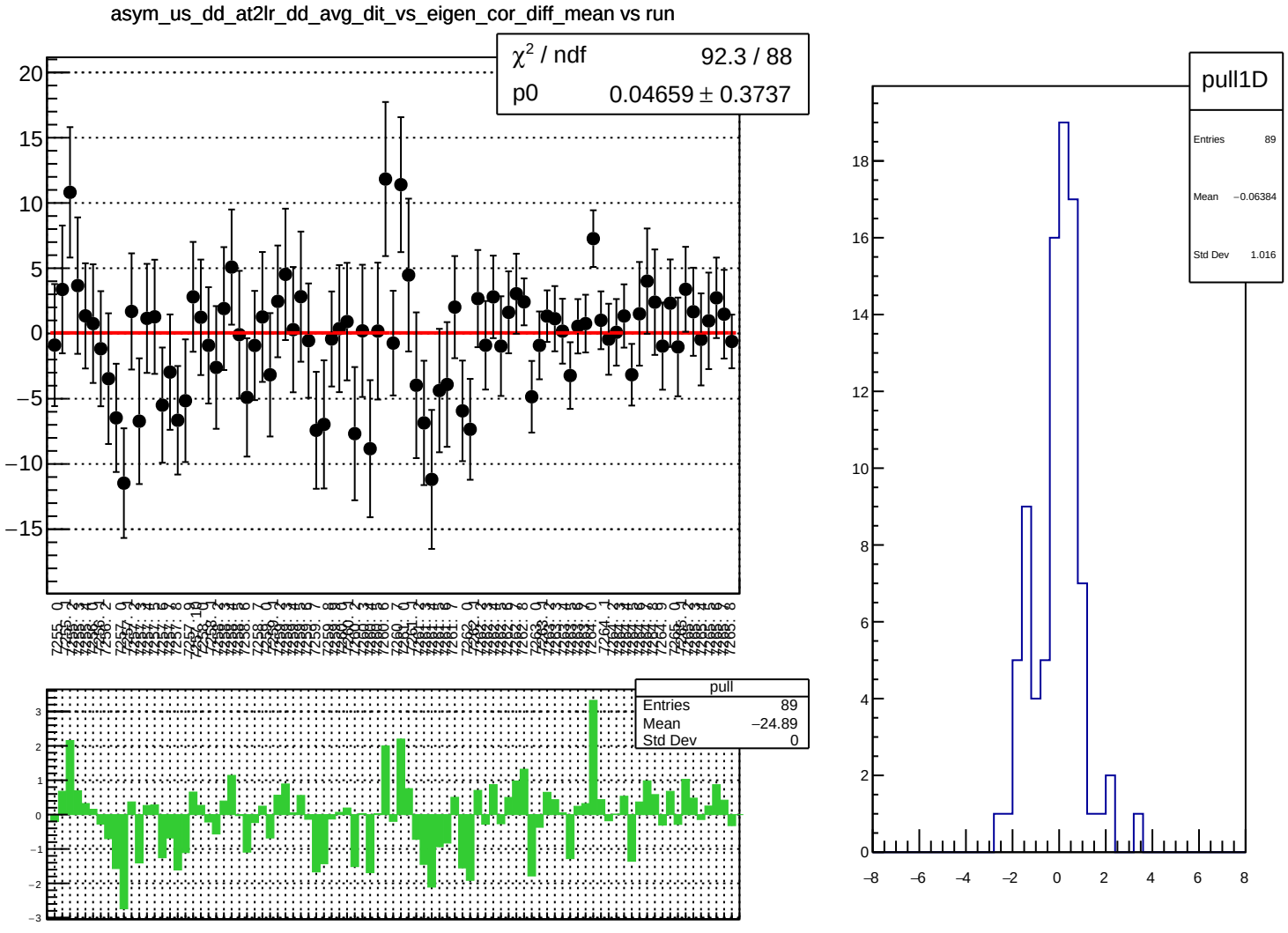

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 88
p0 −6.345e−14 ± 3.534e−14
pull
Entries 89
Mean 102.7
Std Dev 0
pull1D
Entries 89
Mean −0.0178
Std Dev 1.081

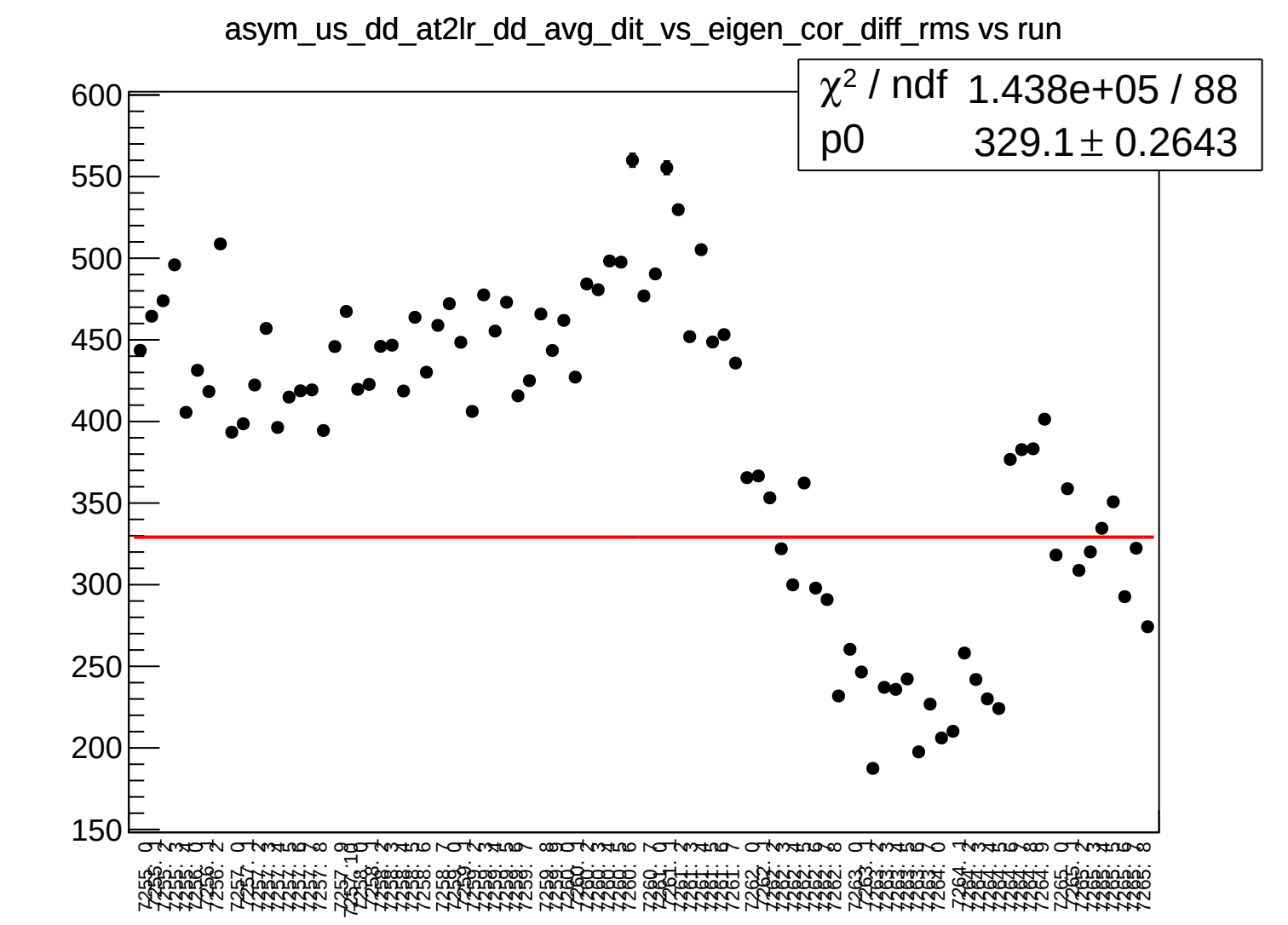

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.113e+06 / 88
p0 1.906e−11 ± 2.499e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

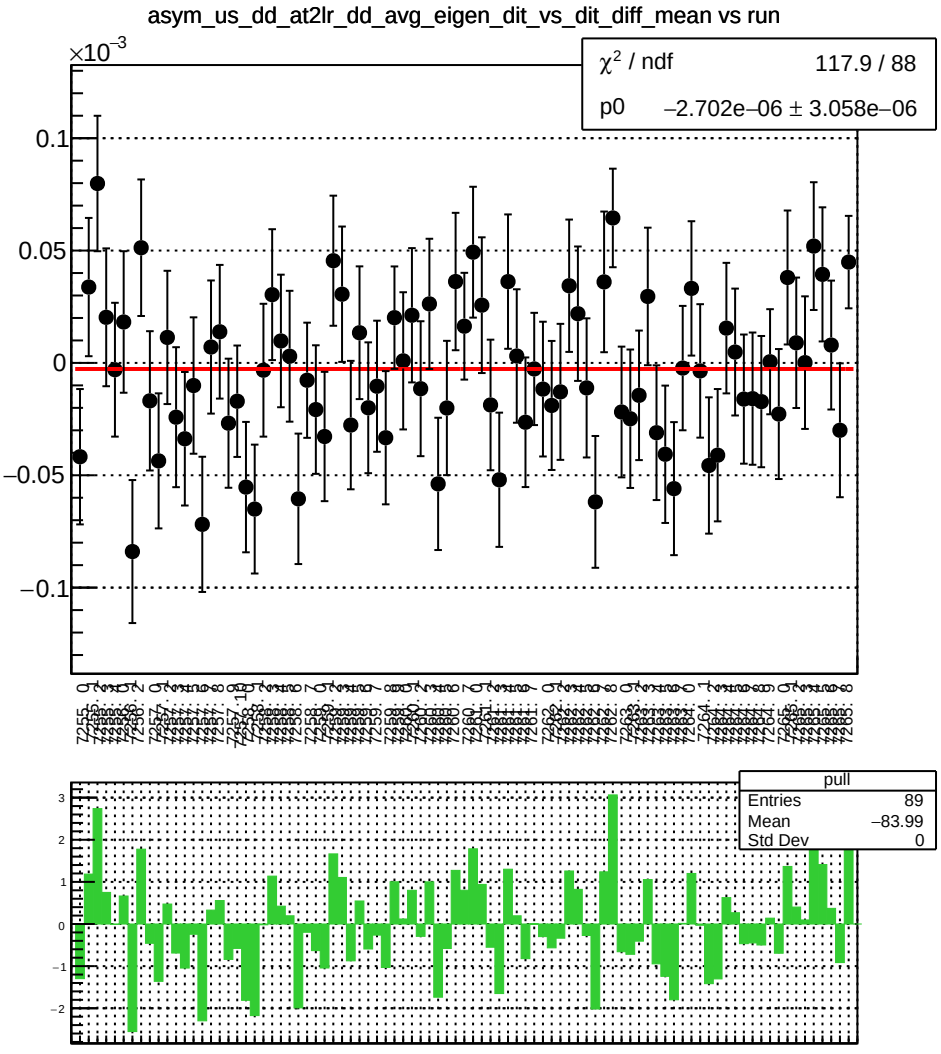

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.3 / 88
p0 0.04659 ± 0.3737
pull
Entries 89
Mean −24.89
Std Dev 0

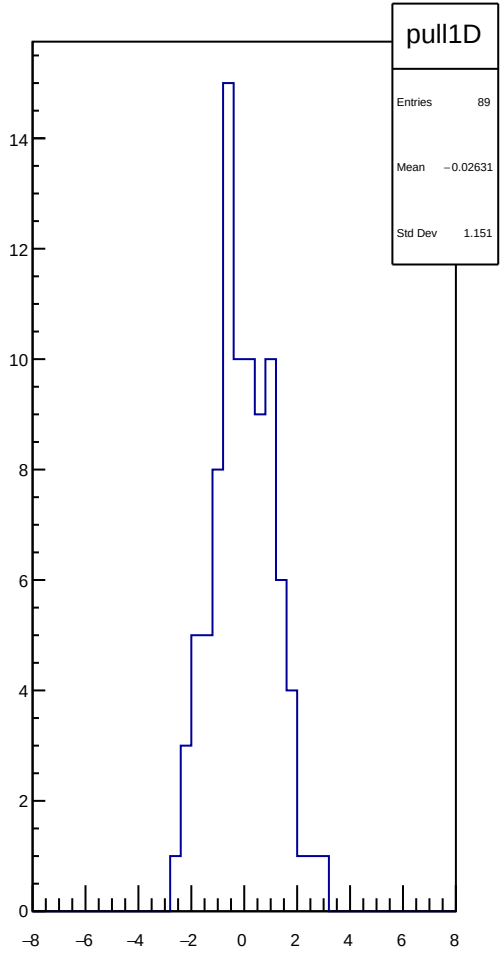

pull1D
Entries 89
Mean −0.06384
Std Dev 1.016

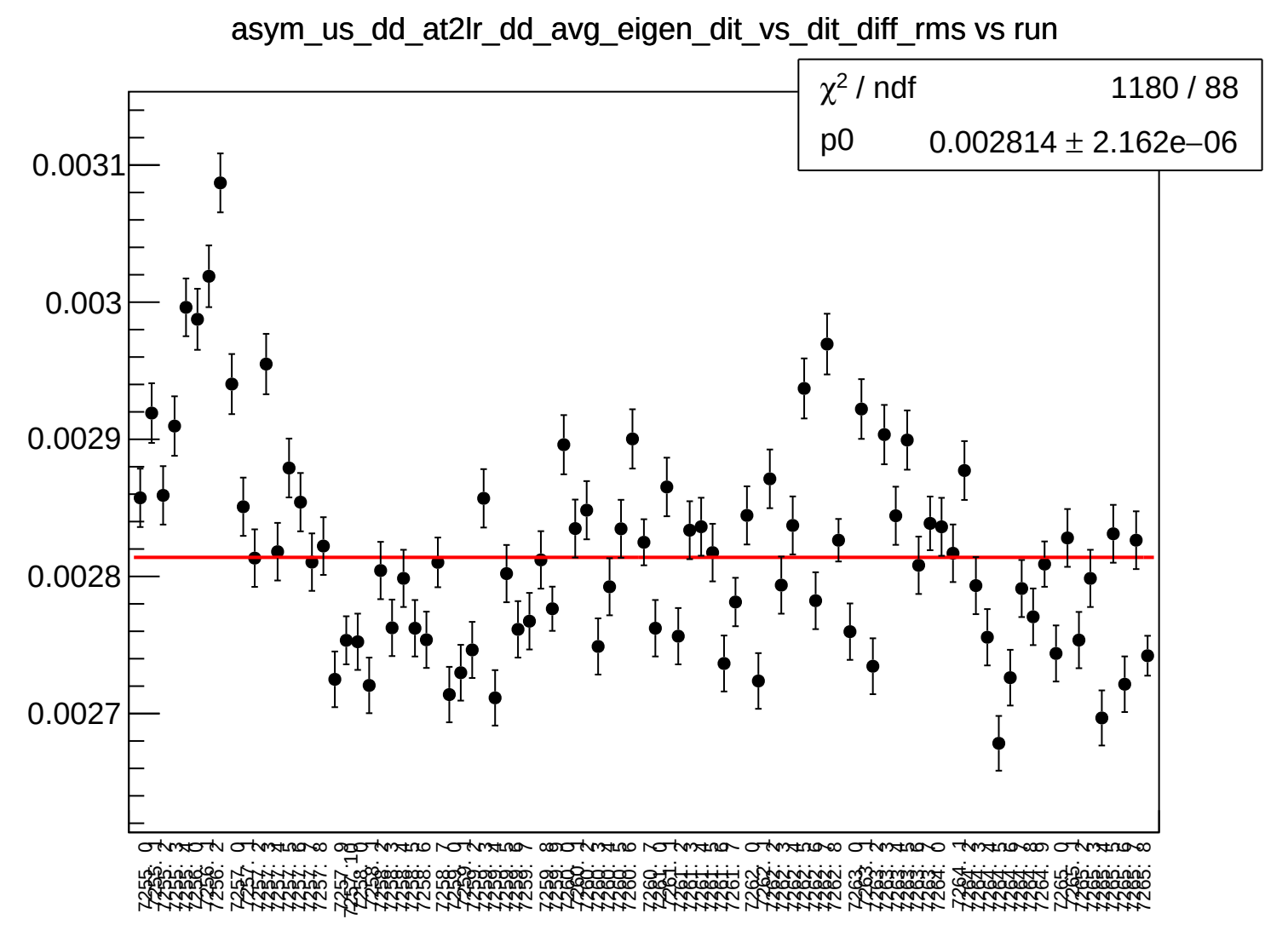

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.438e+05 / 88
p0 329.1 ± 0.2643
600
550
500
450
400
350
300
250
200
150

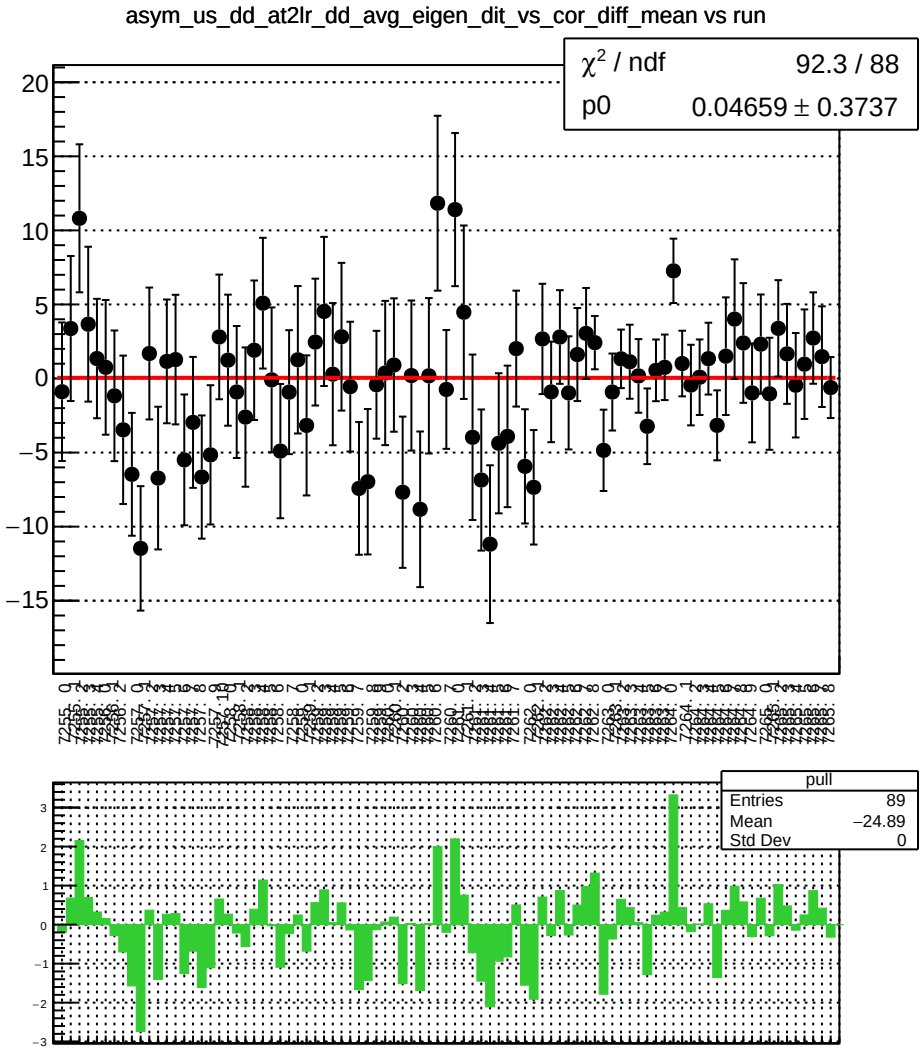

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.3 / 88
p0 0.04659 ± 0.3737
pull
Entries 89
Mean −24.89
Std Dev 0
pull1D
Entries 89
Mean −0.06384
Std Dev 1.016

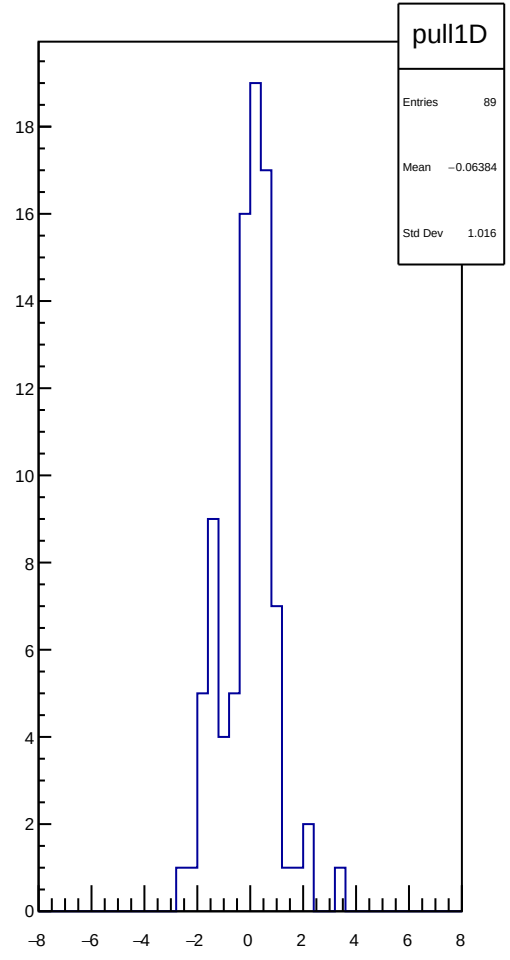

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.438e+05 / 88
p0 329.1 ± 0.2643
600
550
500
450
400
350
300
250
200
150

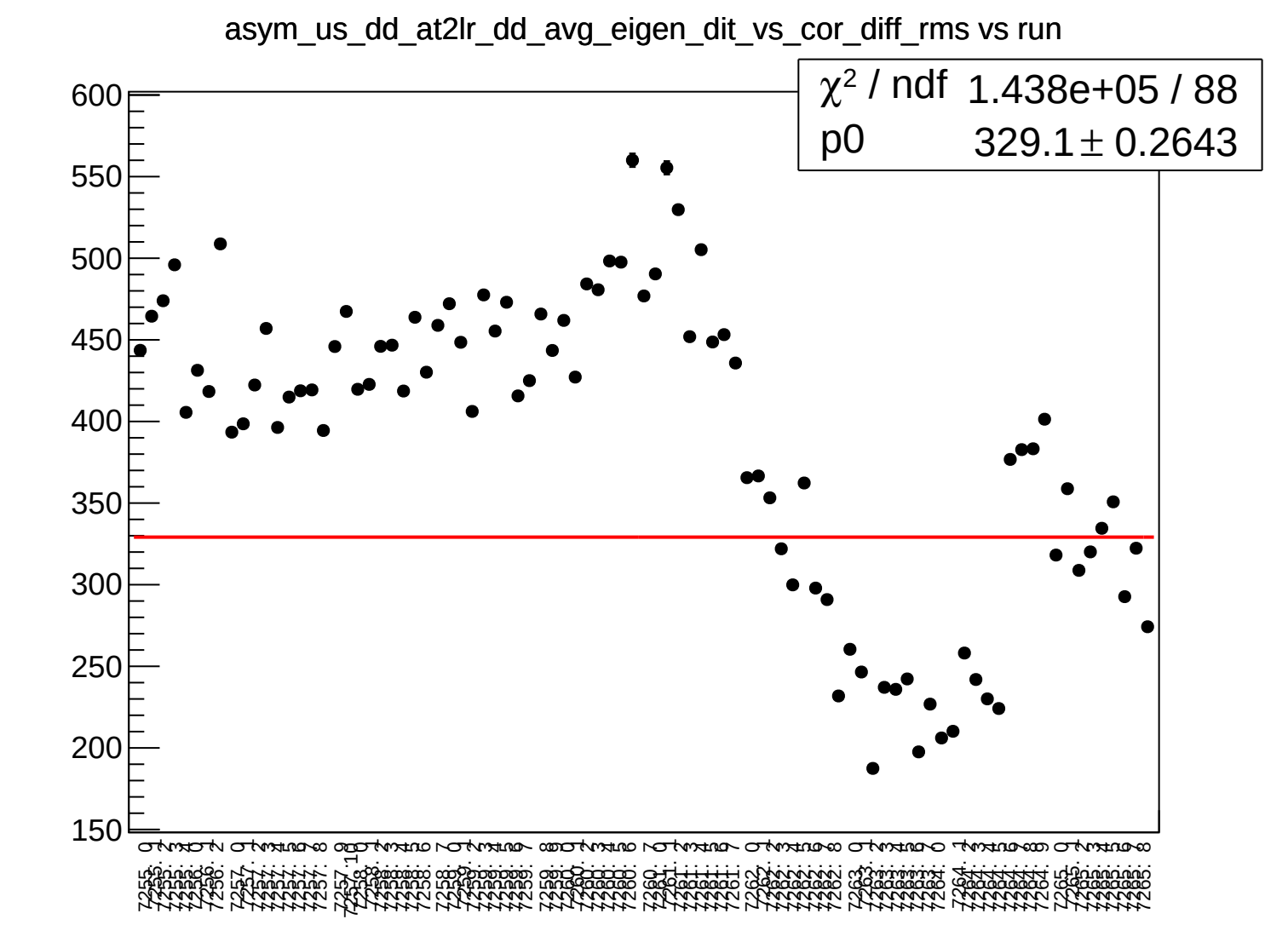

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117.9 / 88
p0 −2.702e−06 ± 3.058e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −83.99
Std Dev 0
3
2
1
0
−1
−2

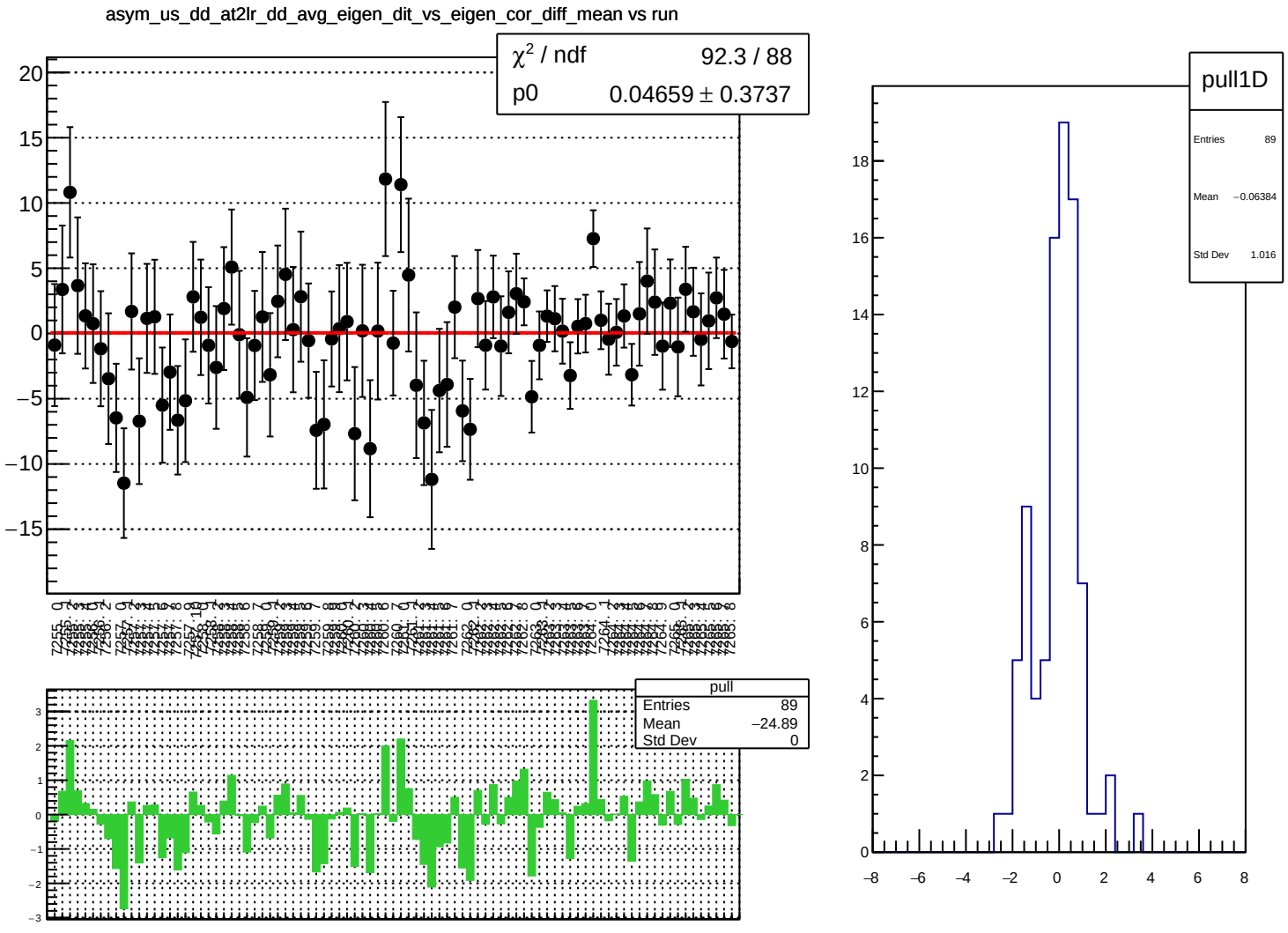

pull1D
Entries 89
Mean −0.02631
Std Dev 1.151
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

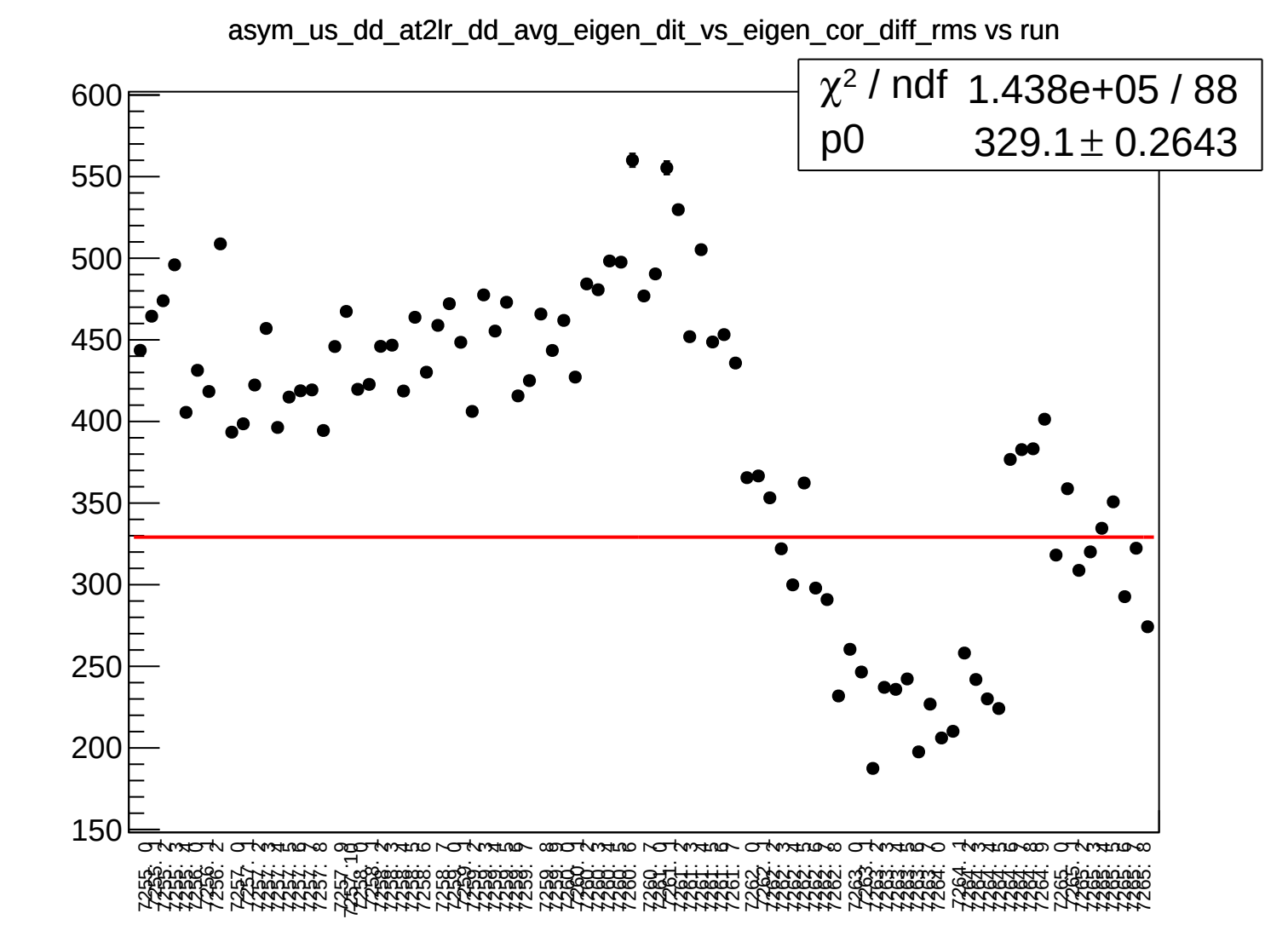

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1180 / 88
p0 0.002814 ± 2.162e−06
0.0031
0.003
0.0029
0.0028
0.0027

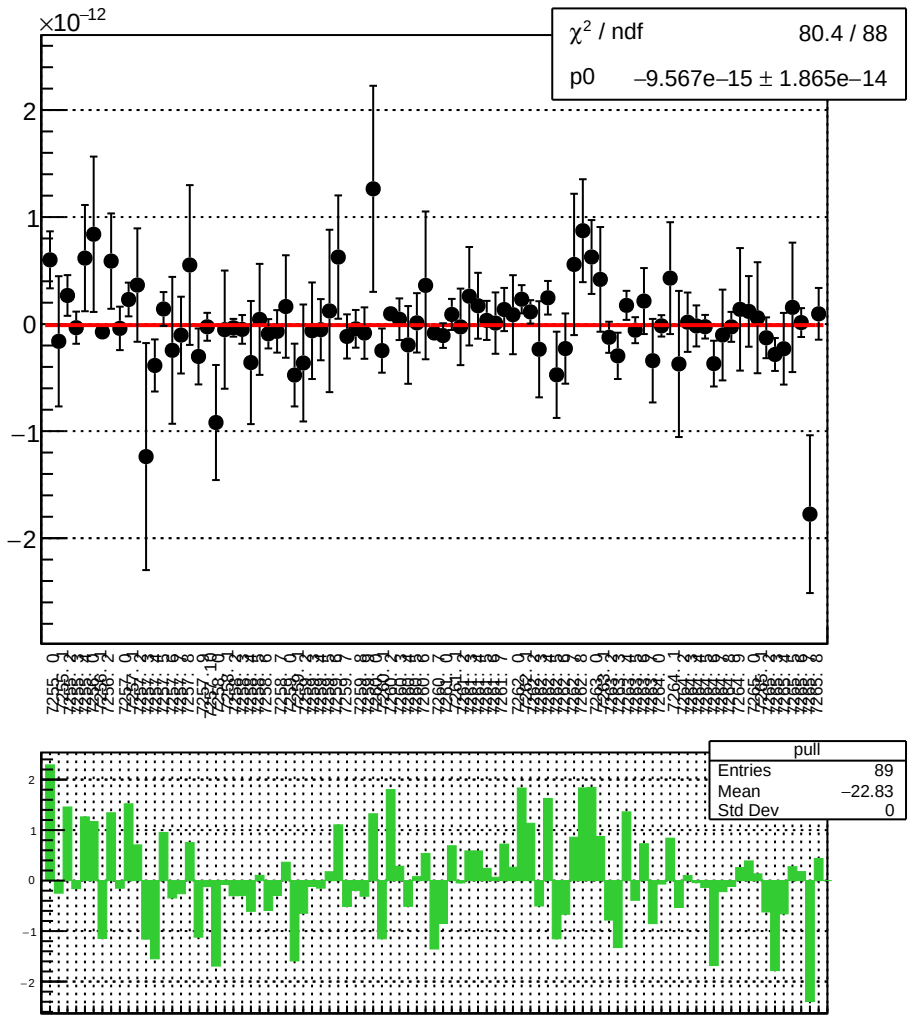

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.3 / 88
p0 0.04659 ± 0.3737
pull
Entries 89
Mean −24.89
Std Dev 0

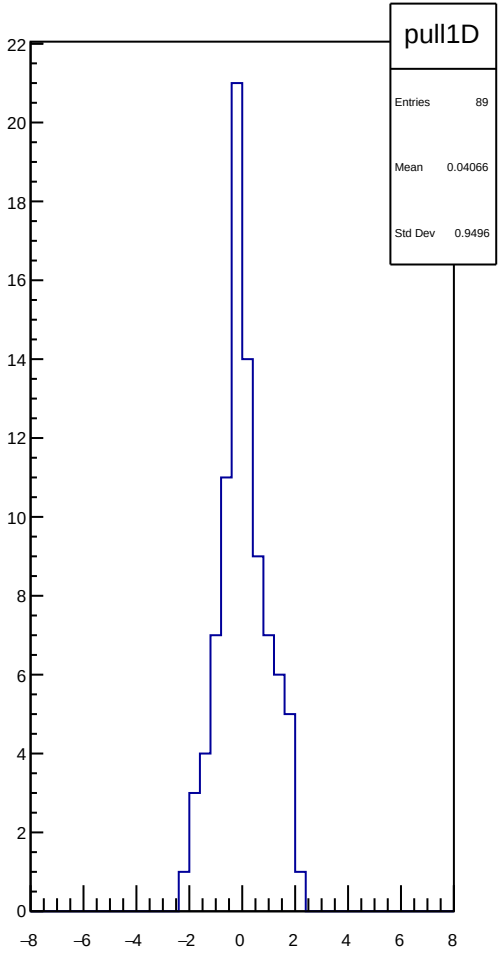

pull1D
Entries 89
Mean −0.06384
Std Dev 1.016

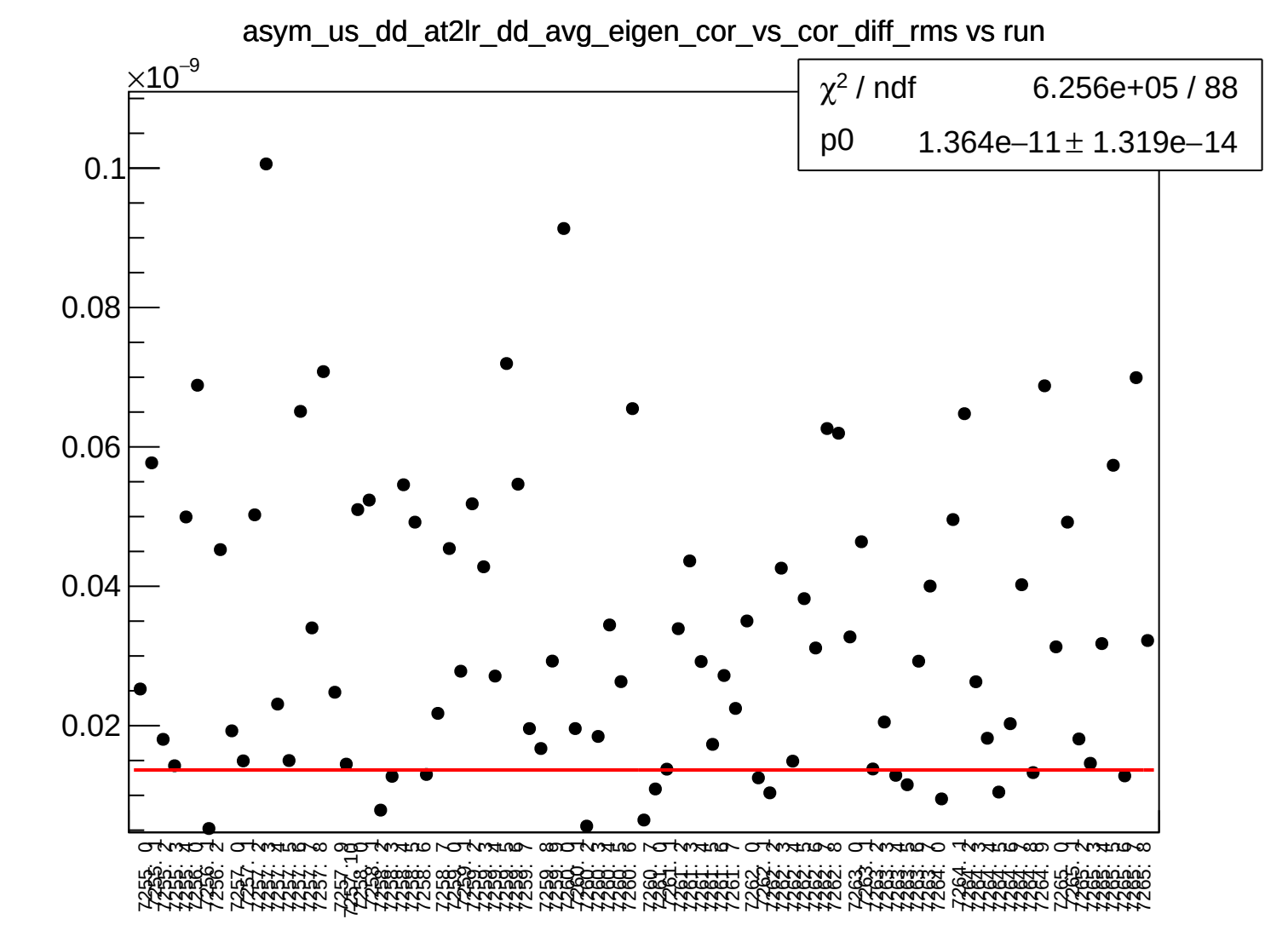

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.438e+05 / 88
p0 329.1 ± 0.2643
600
550
500
450
400
350
300
250
200
150

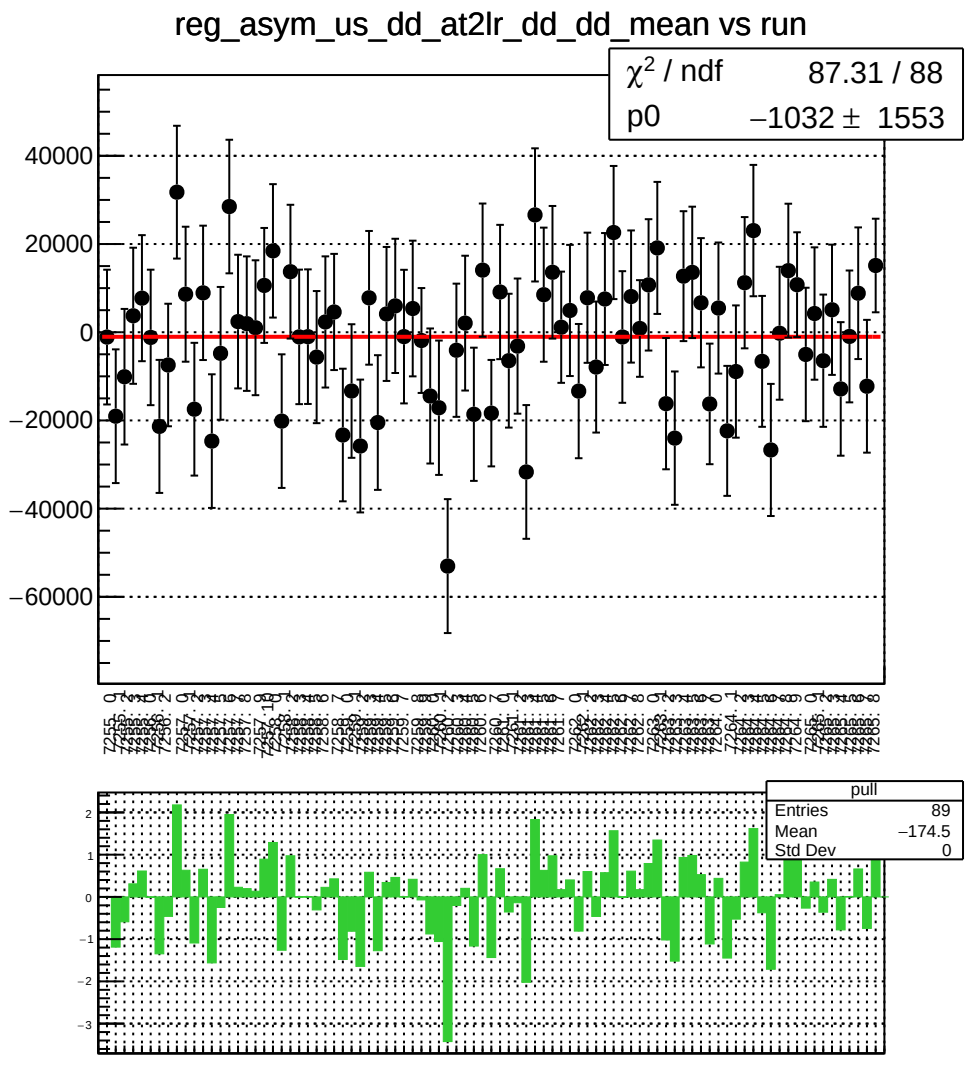

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.3 / 88
p0 0.04659 ± 0.3737
pull
Entries 89
Mean −24.89
Std Dev 0
pull1D
Entries 89
Mean −0.06384
Std Dev 1.016

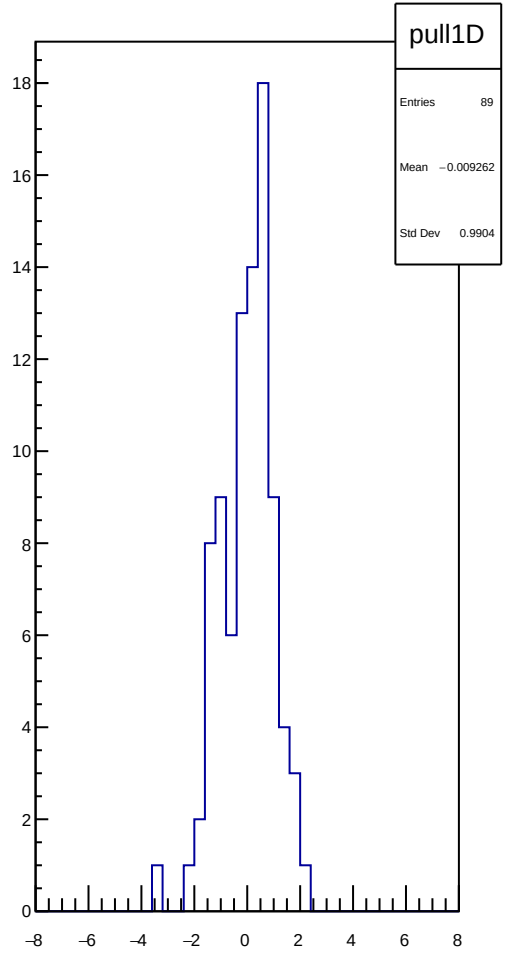

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.438e+05 / 88
p0 329.1 ± 0.2643
600
550
500
450
400
350
300
250
200
150

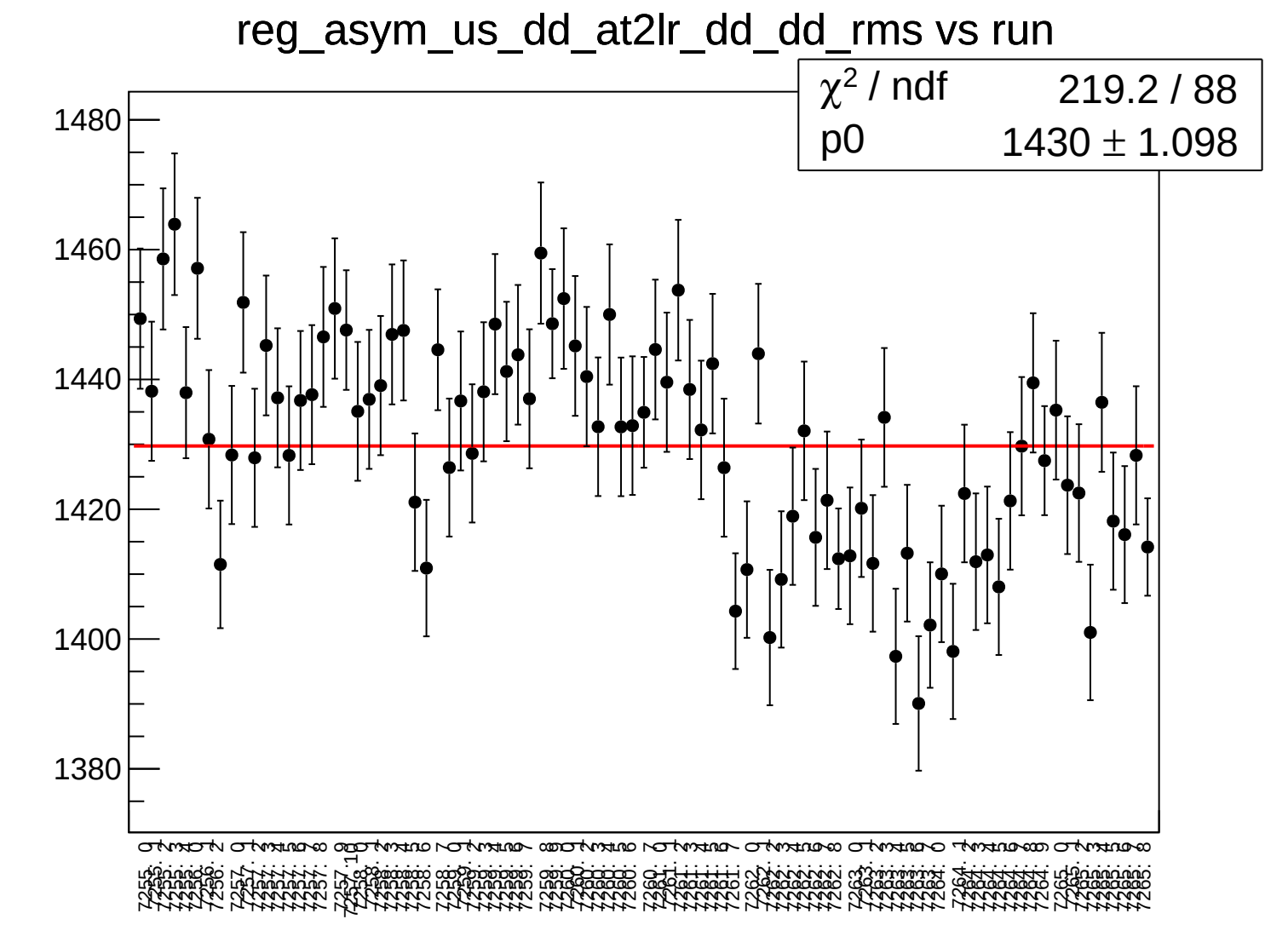

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.4 / 88
p0 −9.567e−15 ± 1.865e−14
pull
Entries 89
Mean −22.83
Std Dev 0

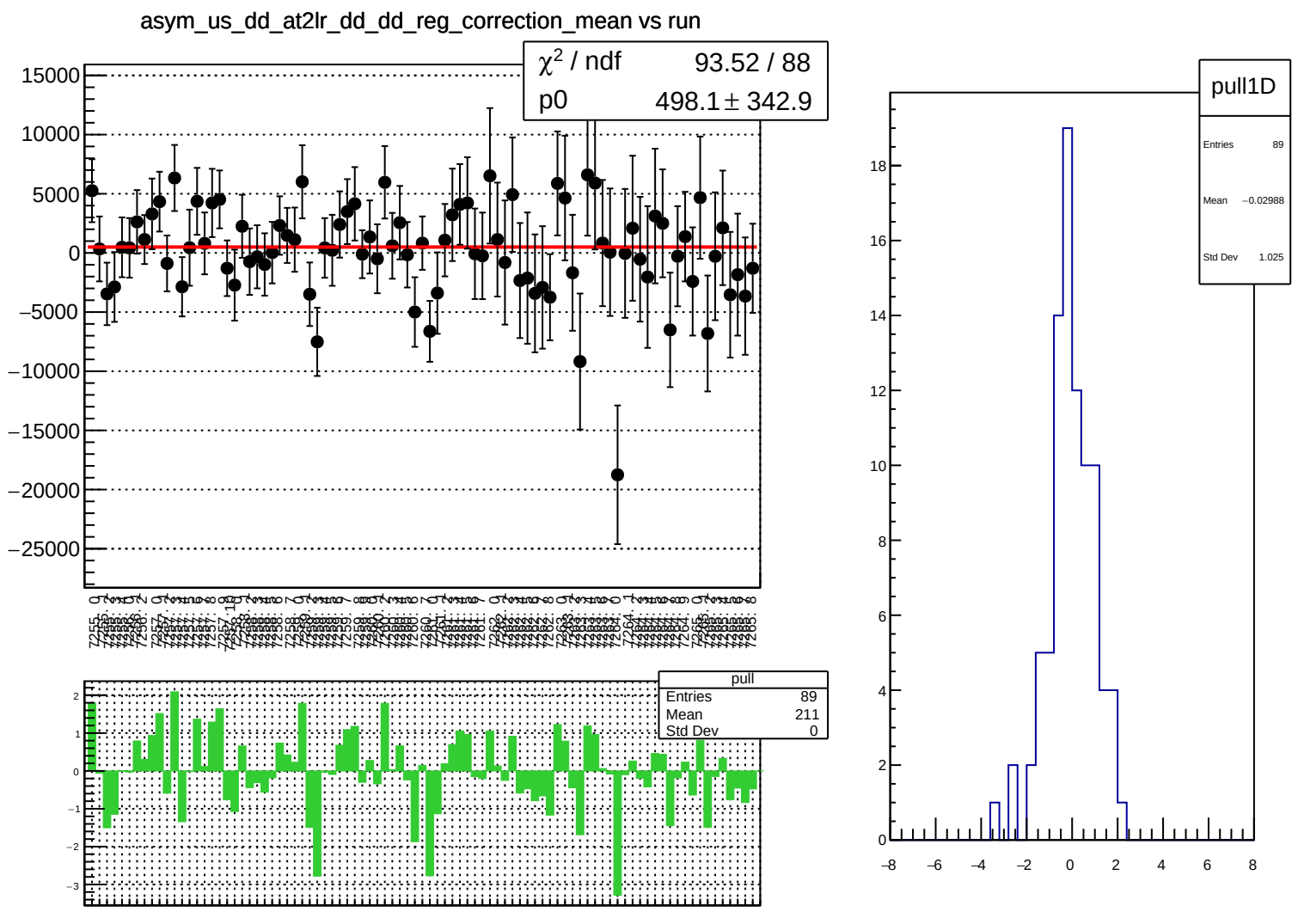

pull1D
Entries 89
Mean 0.04066
Std Dev 0.9496

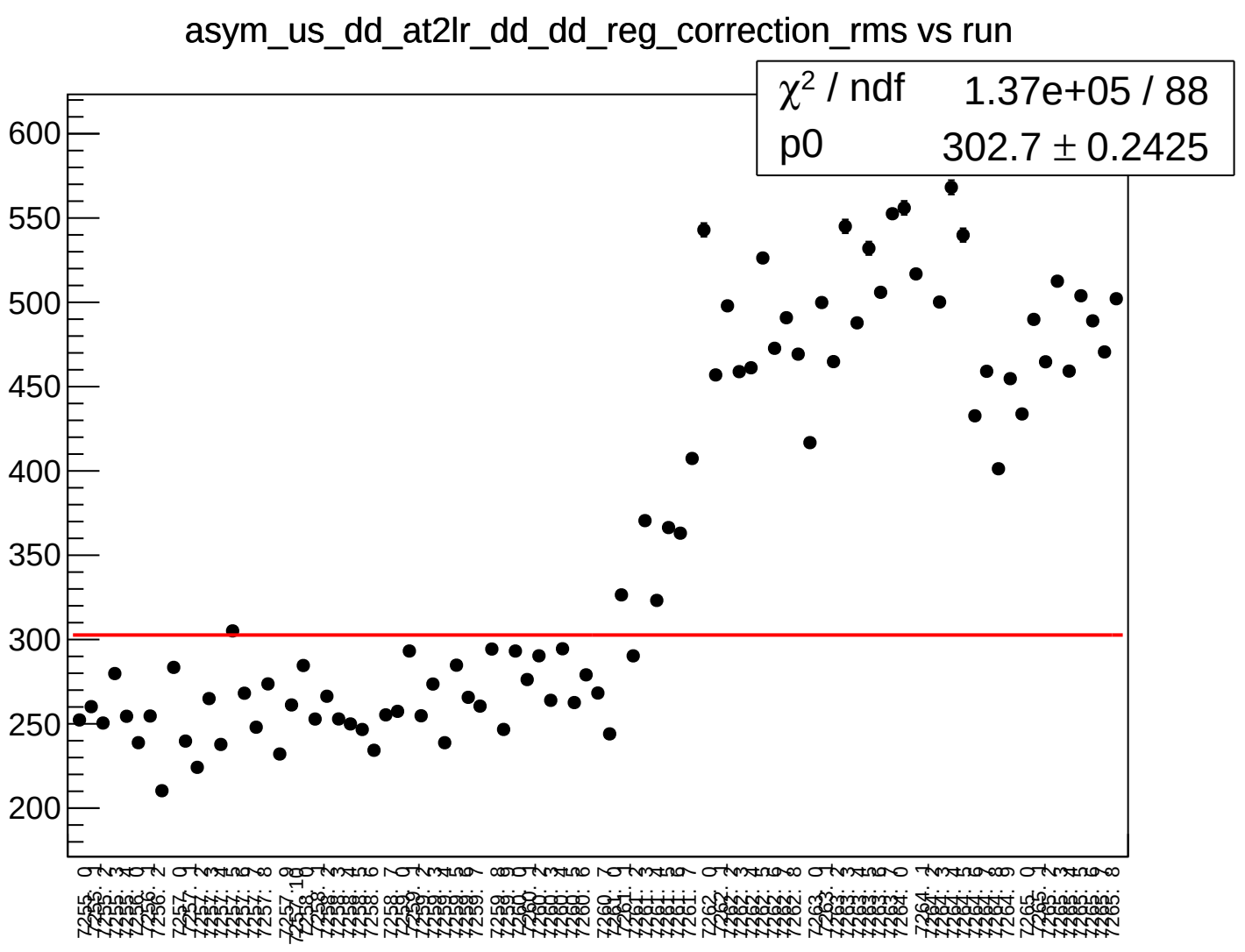

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.256e+05 / 88
p0 1.364e−11 ± 1.319e−14
0.1
0.08
0.06
0.04
0.02

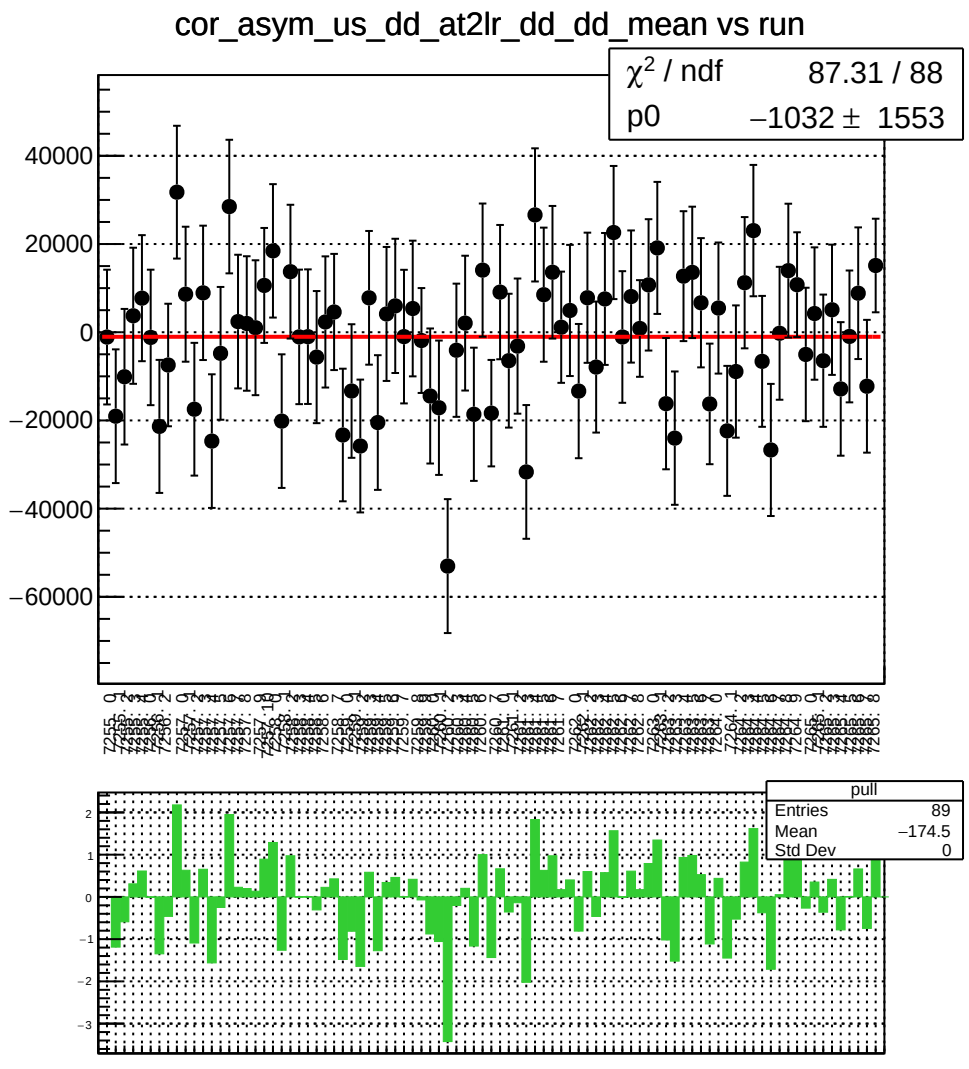

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 87.31 / 88
p0 −1032 ± 1553
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −174.5
Std Dev 0
2
1
0
−1
−2
−3

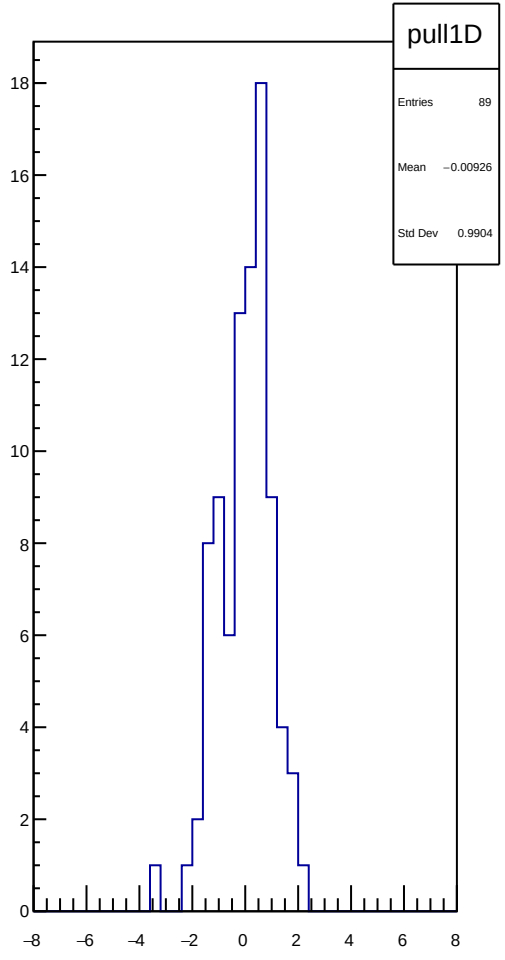

pull1D
Entries 89
Mean −0.009262
Std Dev 0.9904
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

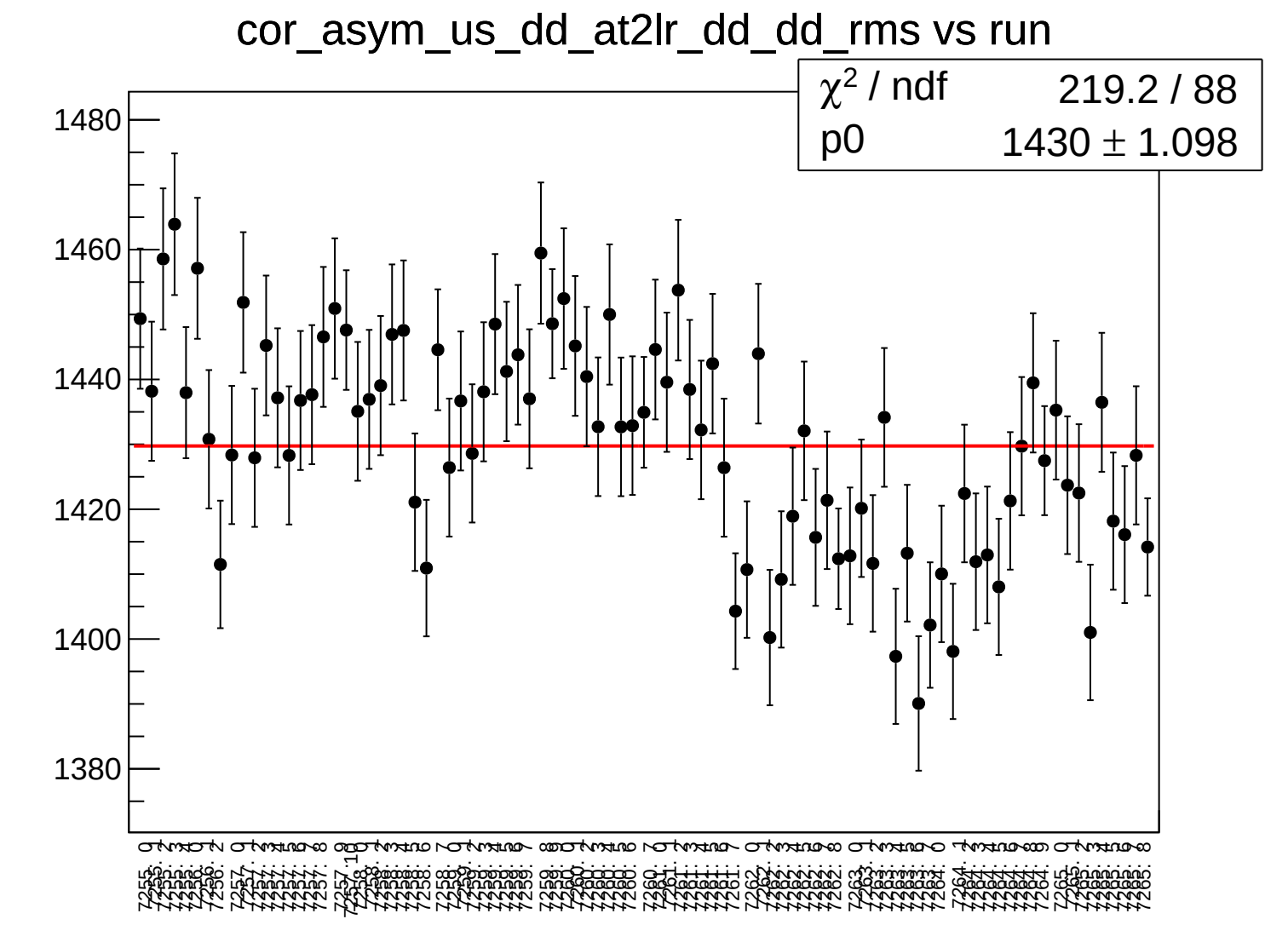

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 219.2 / 88
p0 1430 ± 1.098
1480
1460
1440
1420
1400
1380

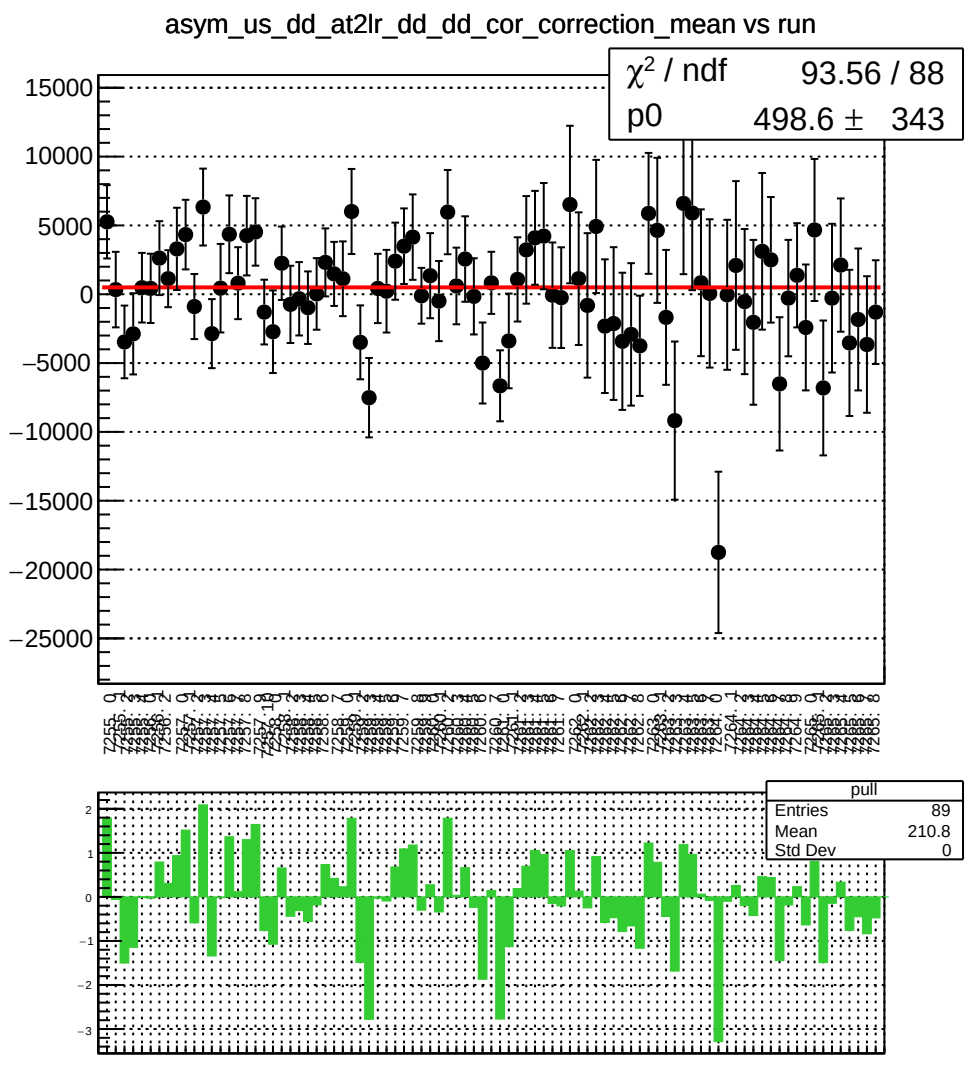

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 93.52 / 88
p0 498.1 ± 342.9
pull
Entries 89
Mean 211
Std Dev 0
pull1D
Entries 89
Mean −0.02988
Std Dev 1.025

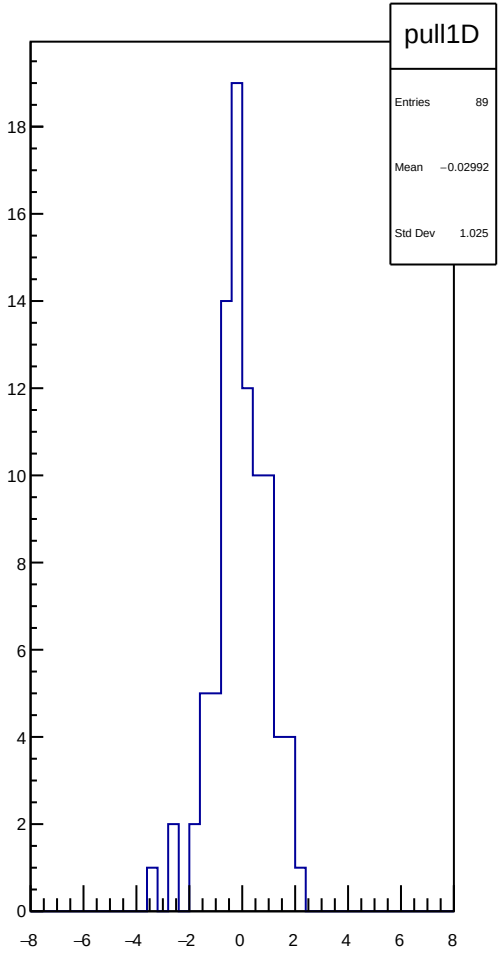

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.37e+05 / 88
p0 302.7 ± 0.2425
600
550
500
450
400
350
300
250
200

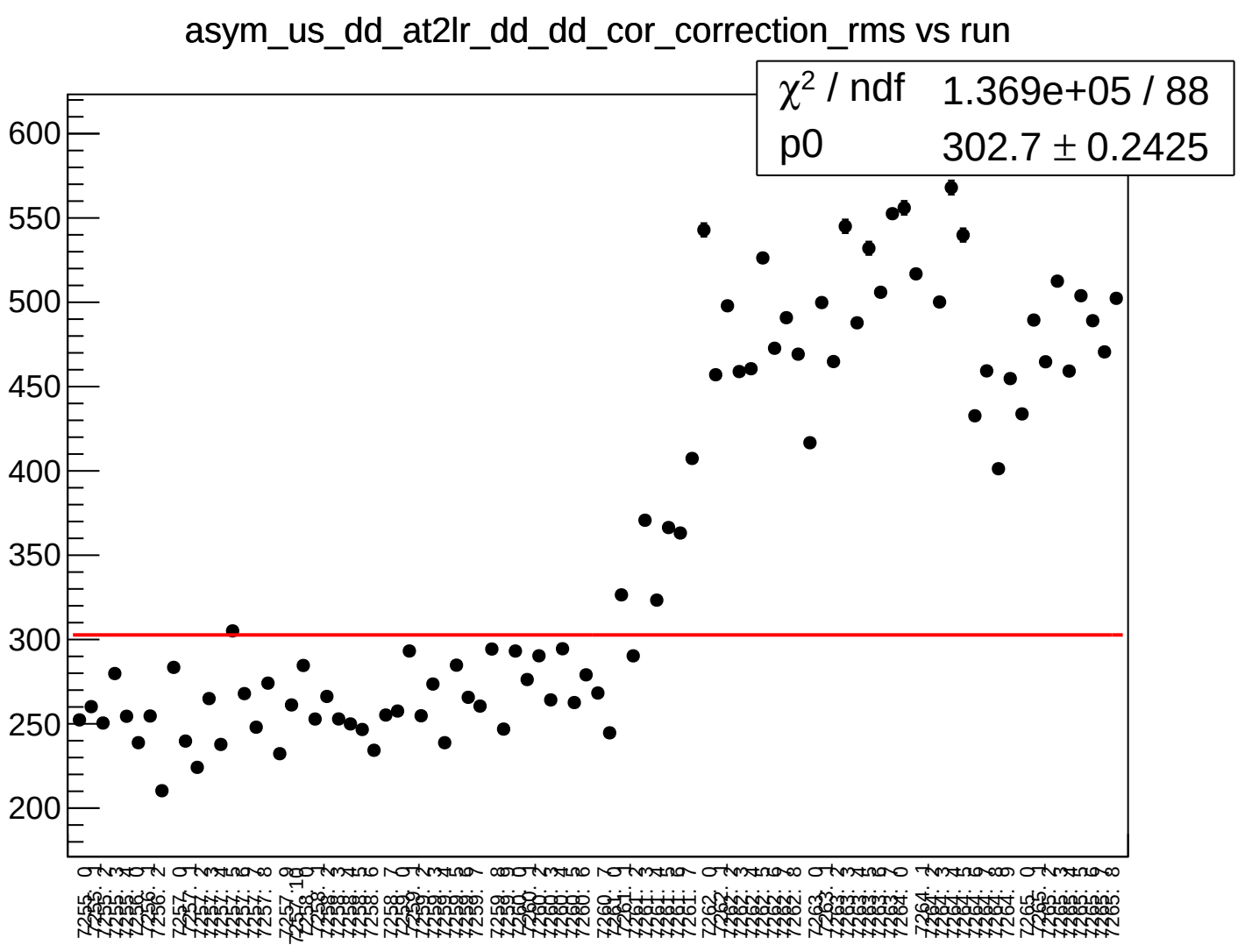

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 87.31 / 88
p0 −1032 ± 1553
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −174.5
Std Dev 0
2
1
0
−1
−2
−3

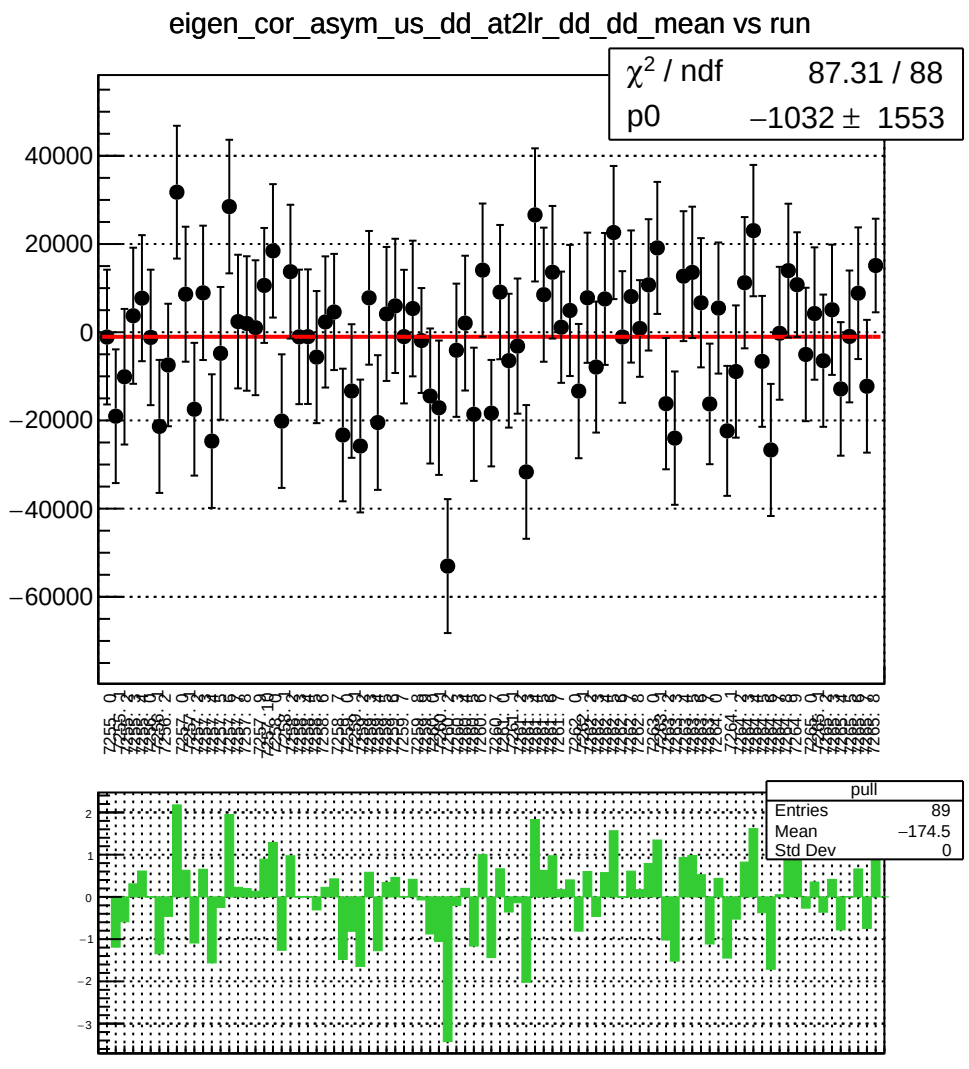

pull1D
Entries 89
Mean −0.00926
Std Dev 0.9904
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

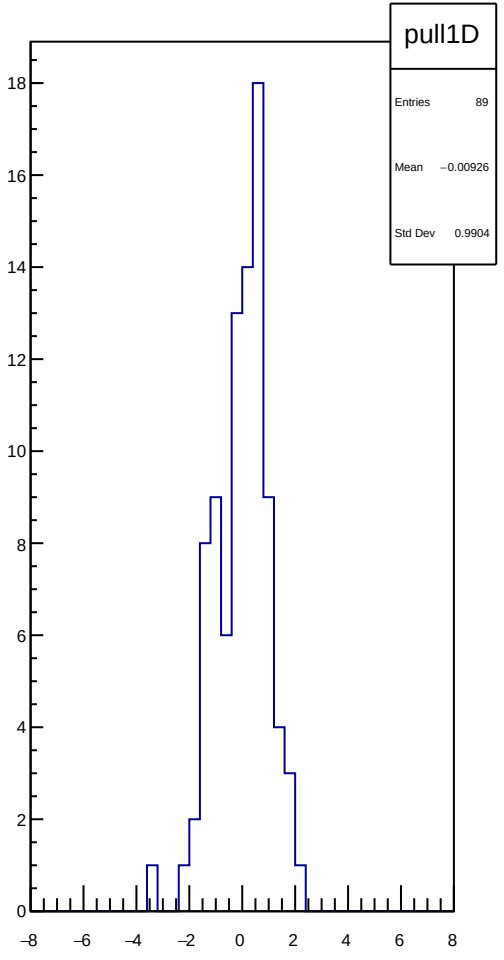

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 219.2 / 88
p0 1430 ± 1.098
1480
1460
1440
1420
1400
1380

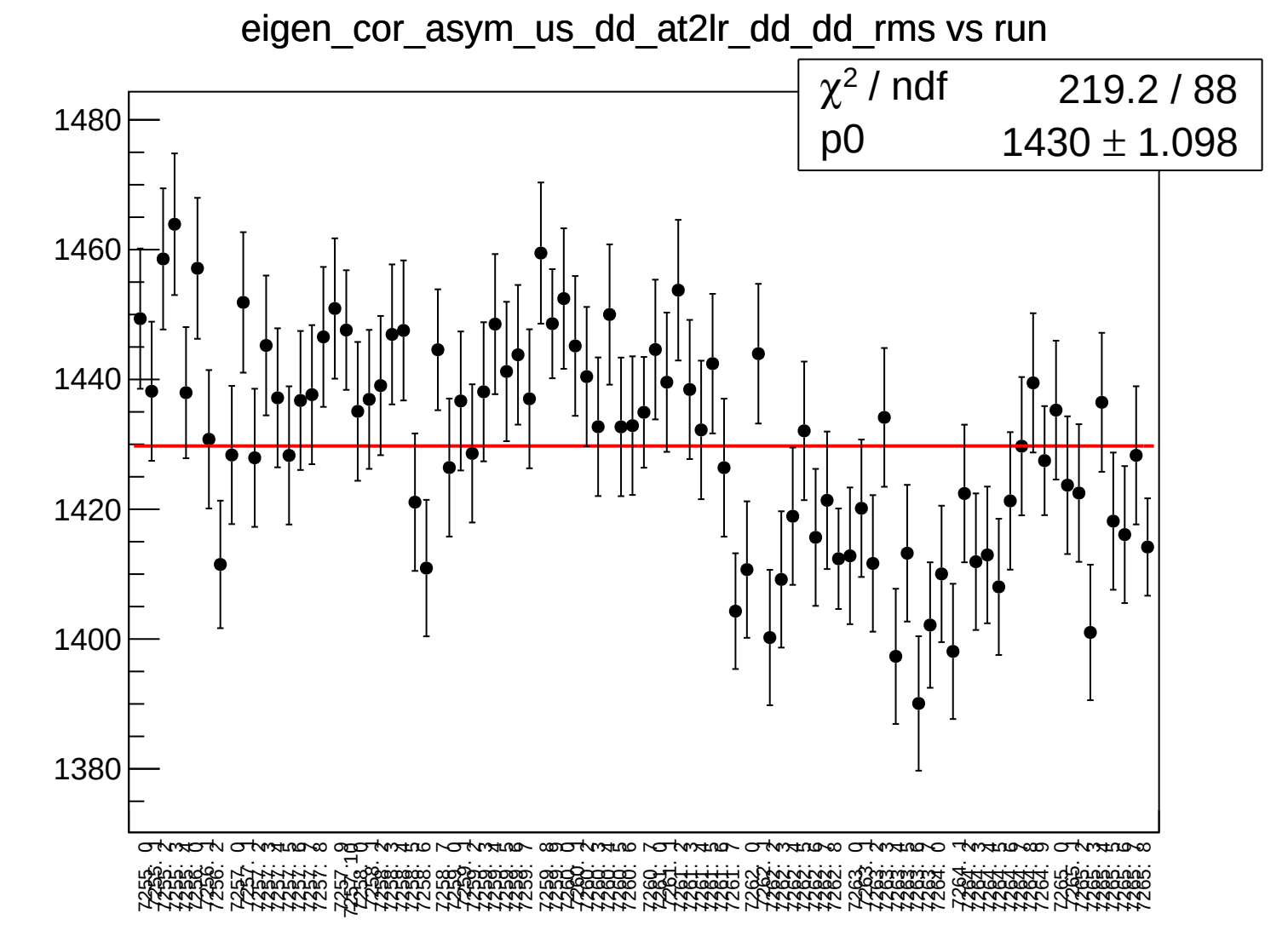

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 93.56 / 88
p0 498.6 ± 343
pull
Entries 89
Mean 210.8
Std Dev 0

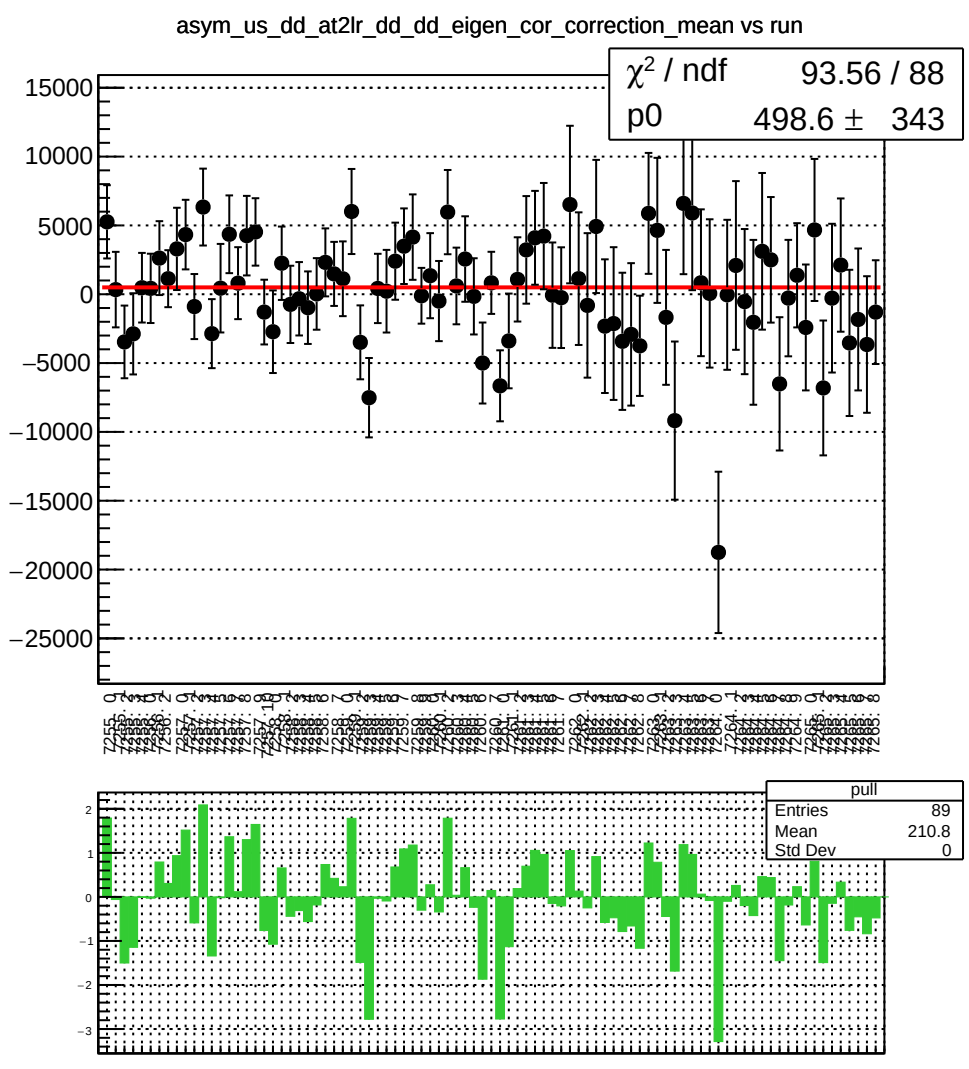

pull1D
Entries 89
Mean −0.02992
Std Dev 1.025

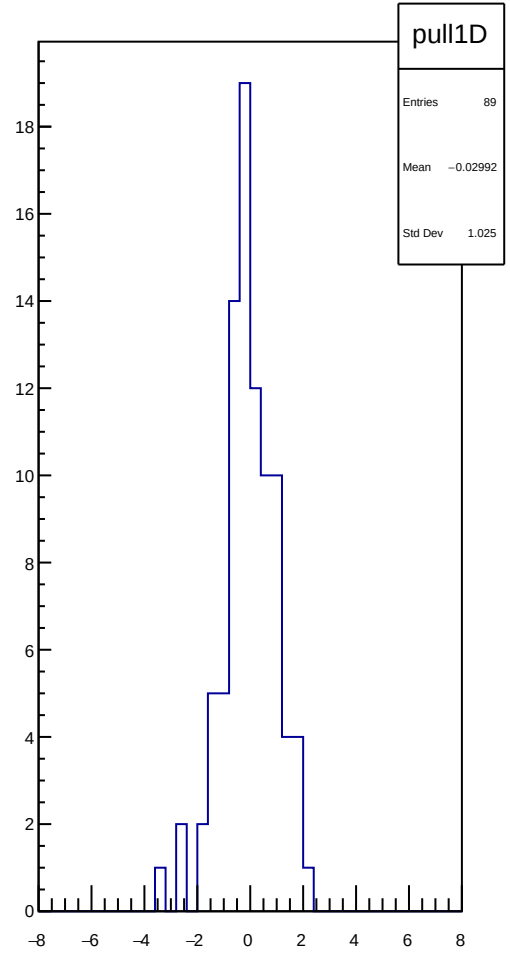

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.369e+05 / 88
p0 302.7 ± 0.2425
600
550
500
450
400
350
300
250
200

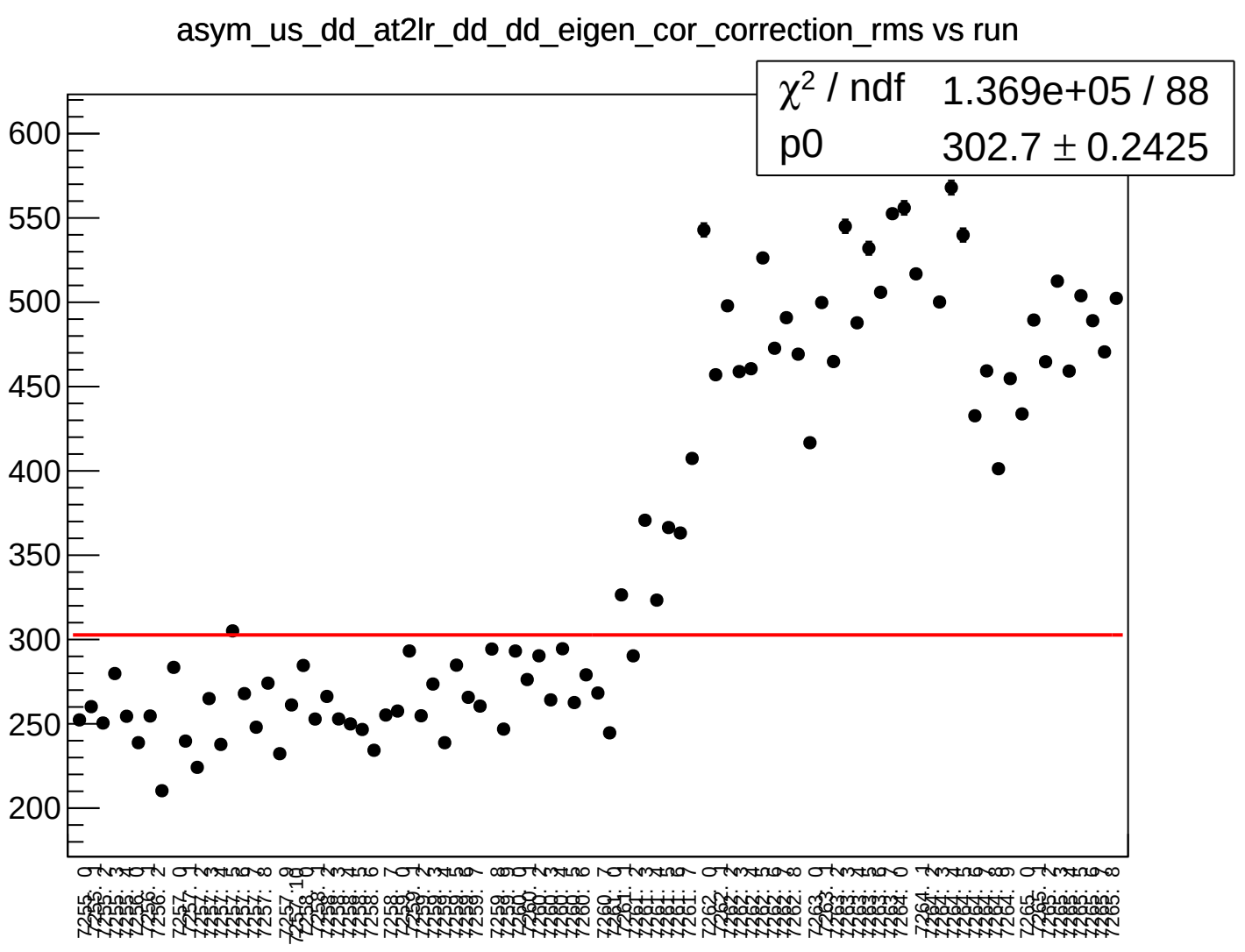

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 87.31 / 88
p0 −1032 ± 1553
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −174.5
Std Dev 0
2
1
0
−1
−2
−3

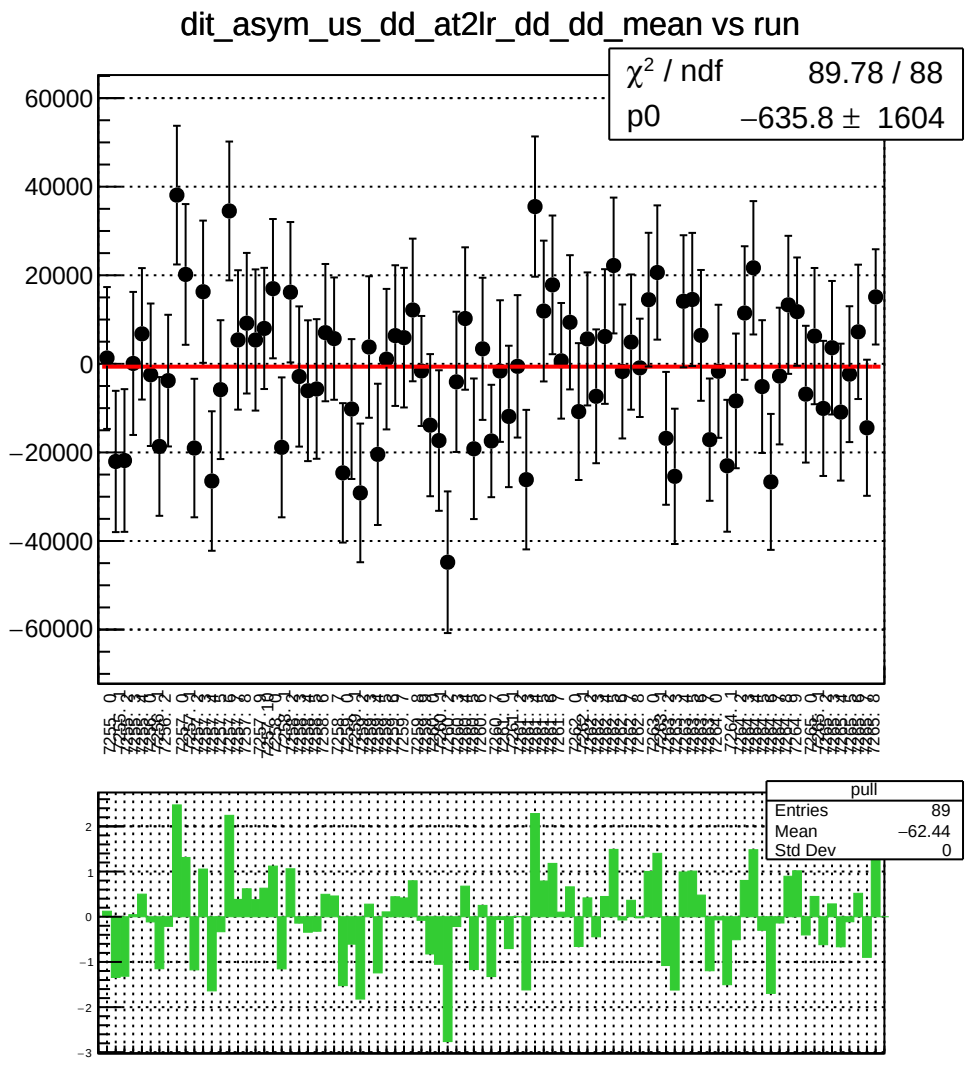

pull1D
Entries 89
Mean −0.00926
Std Dev 0.9904
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

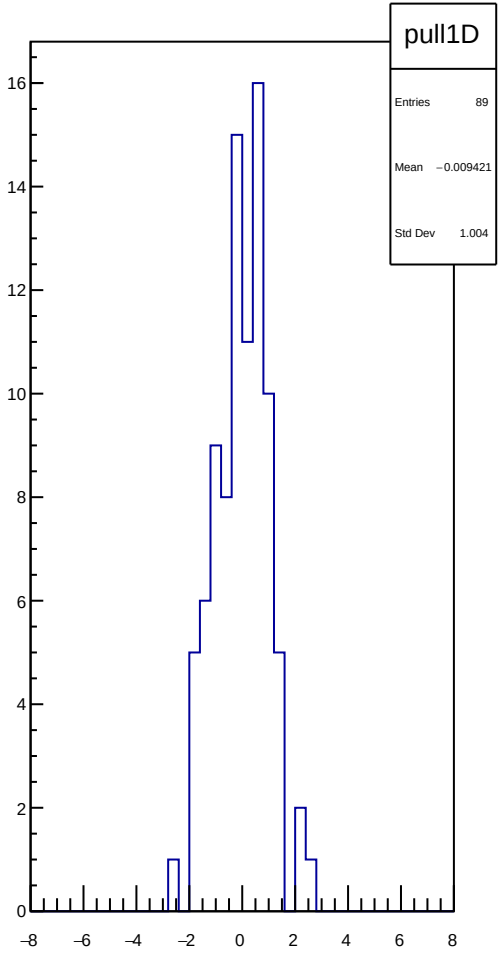

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 219.2 / 88
p0 1430 ± 1.098
1480
1460
1440
1420
1400
1380

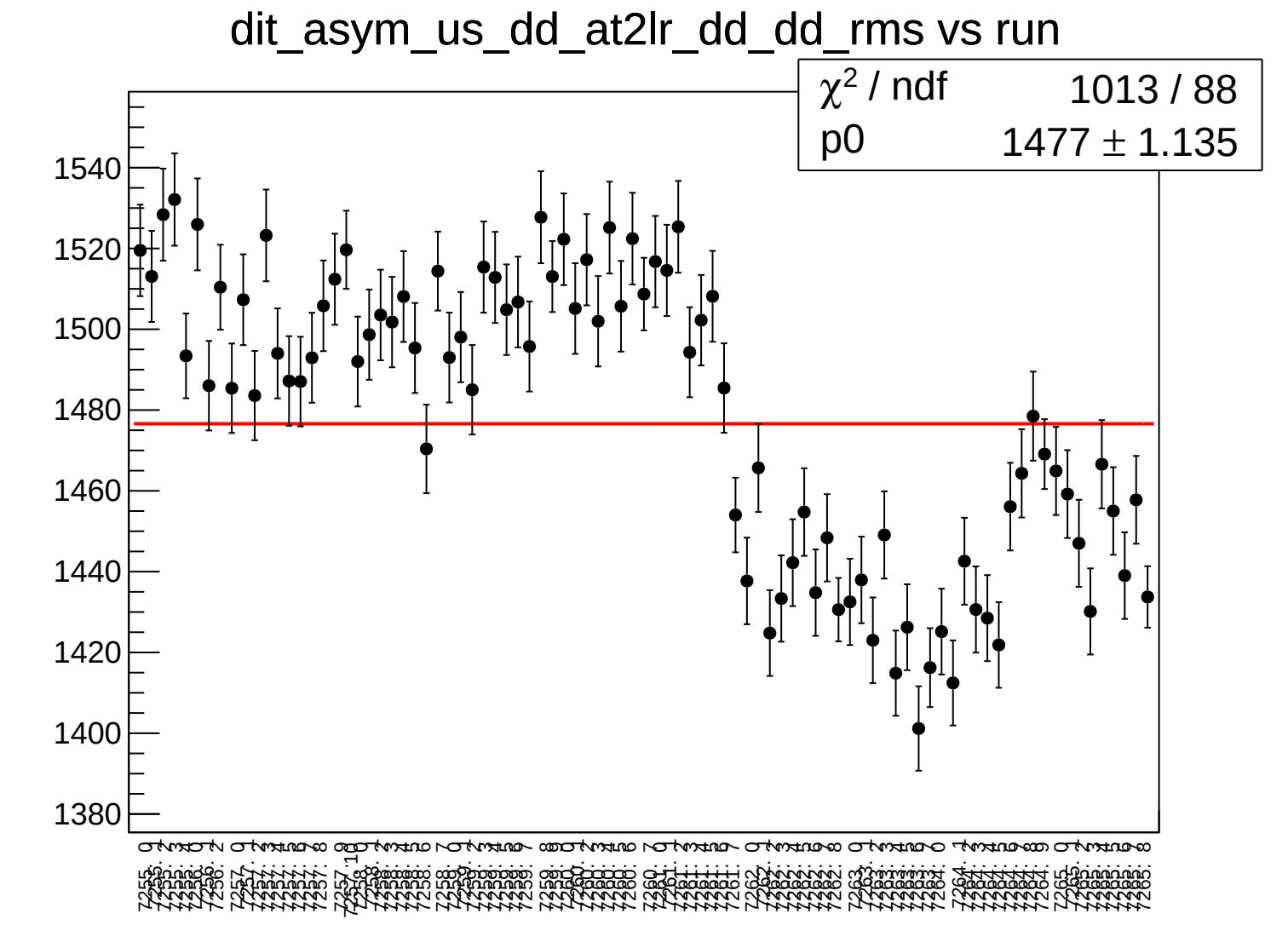

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 93.56 / 88
p0 498.6 ± 343
pull
Entries 89
Mean 210.8
Std Dev 0

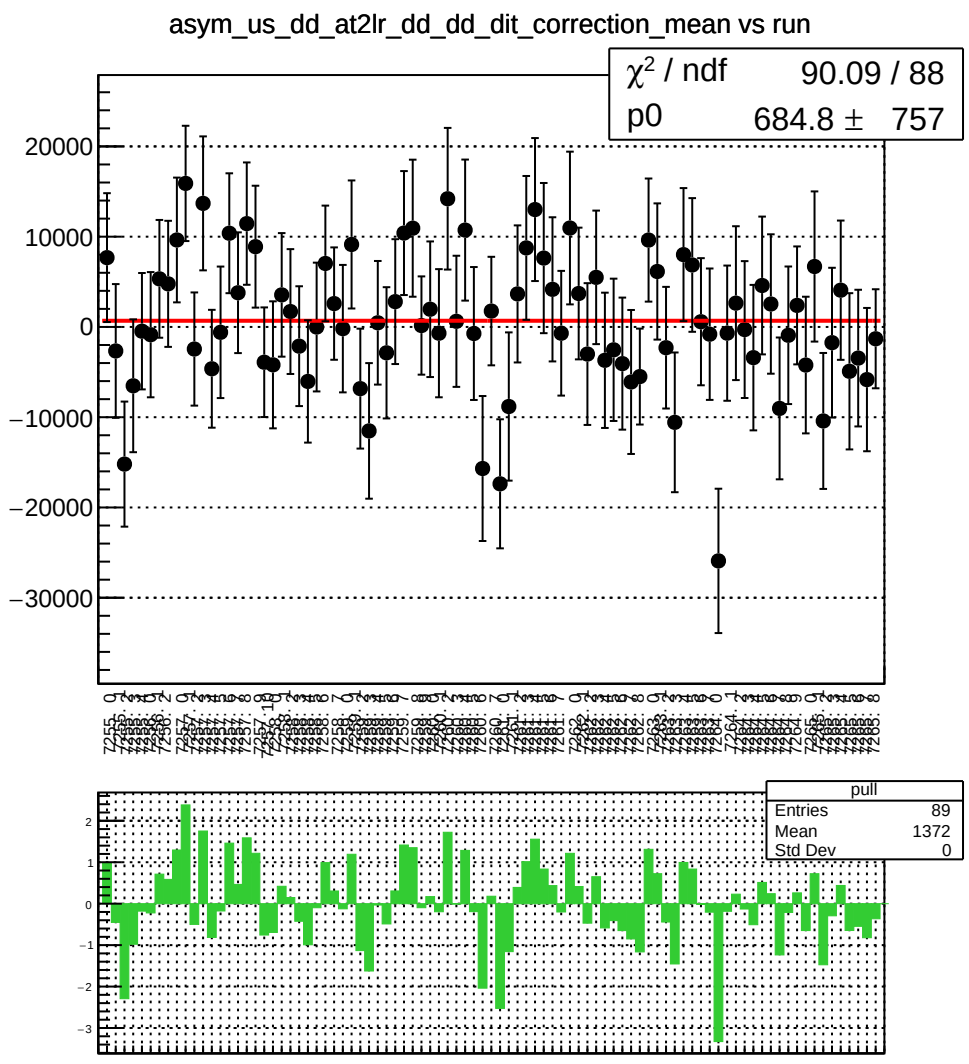

pull1D
Entries 89
Mean −0.02992
Std Dev 1.025

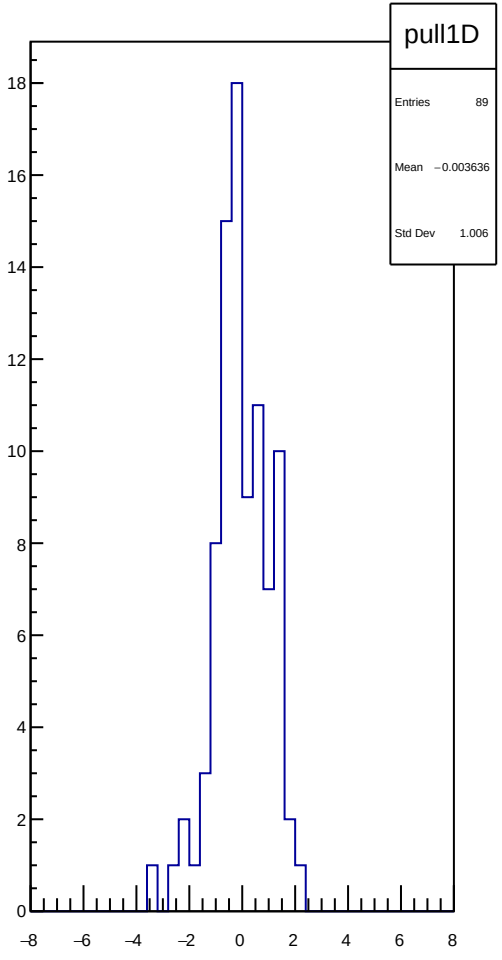

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.369e+05 / 88
p0 302.7 ± 0.2425
600
550
500
450
400
350
300
250
200

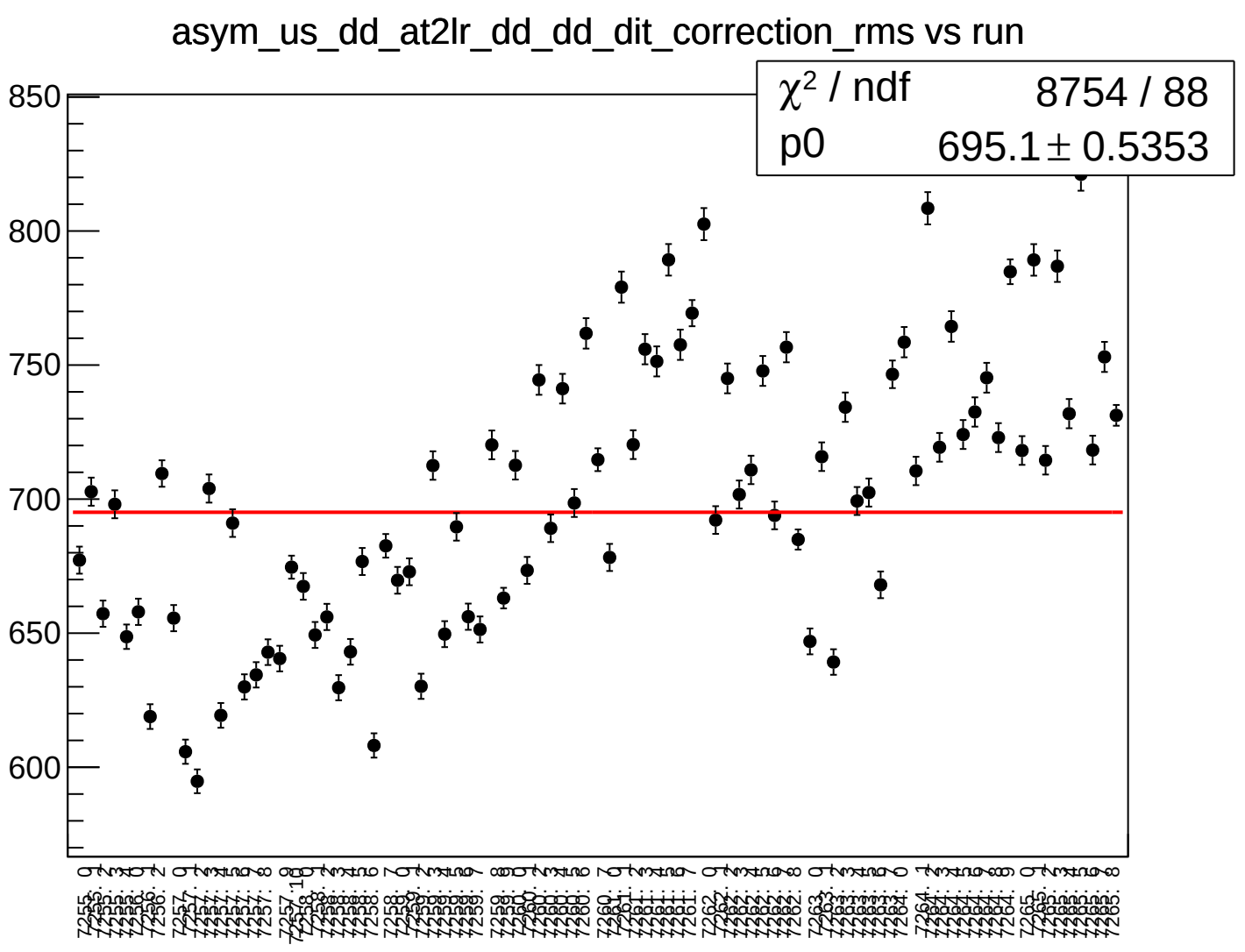

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 89.78 / 88
p0 −635.8 ± 1604
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −62.44
Std Dev 0
2
1
0
−1
−2
−3

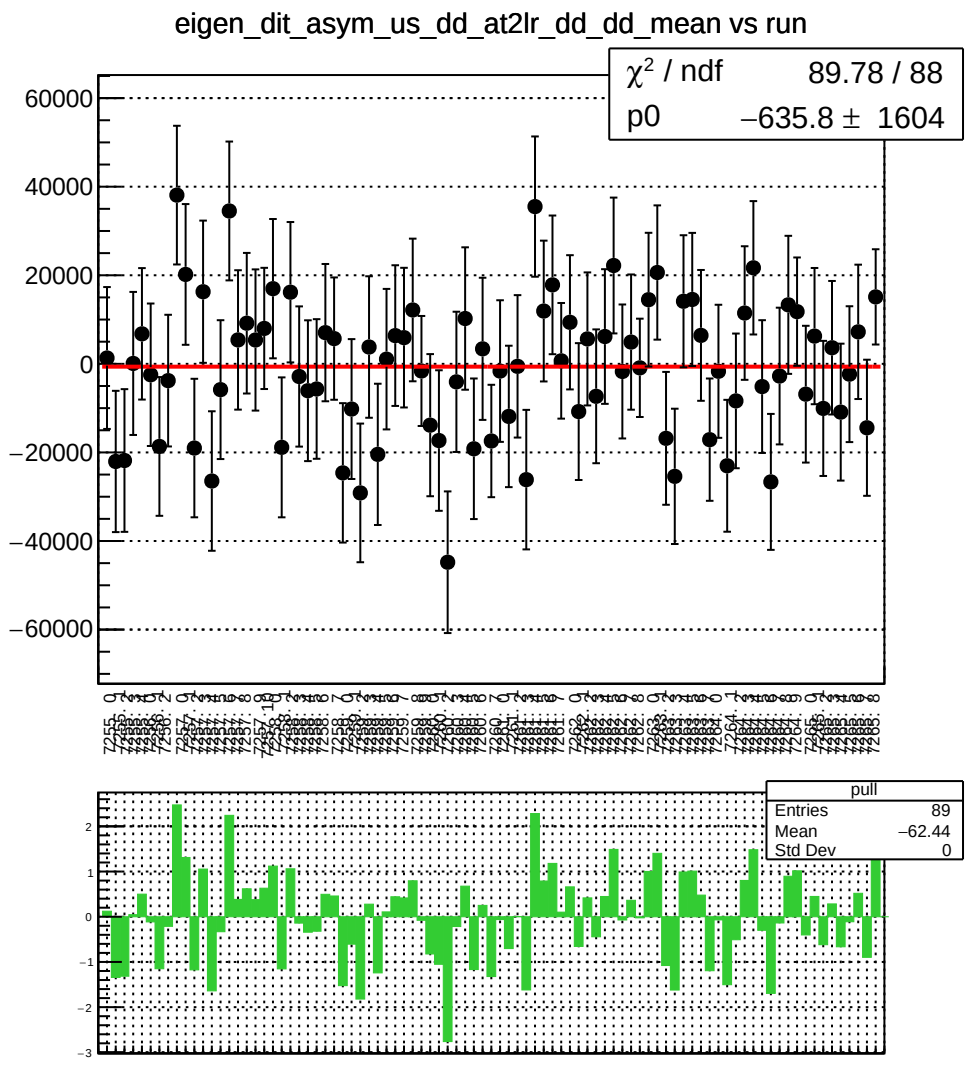

pull1D
Entries 89
Mean −0.009421
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

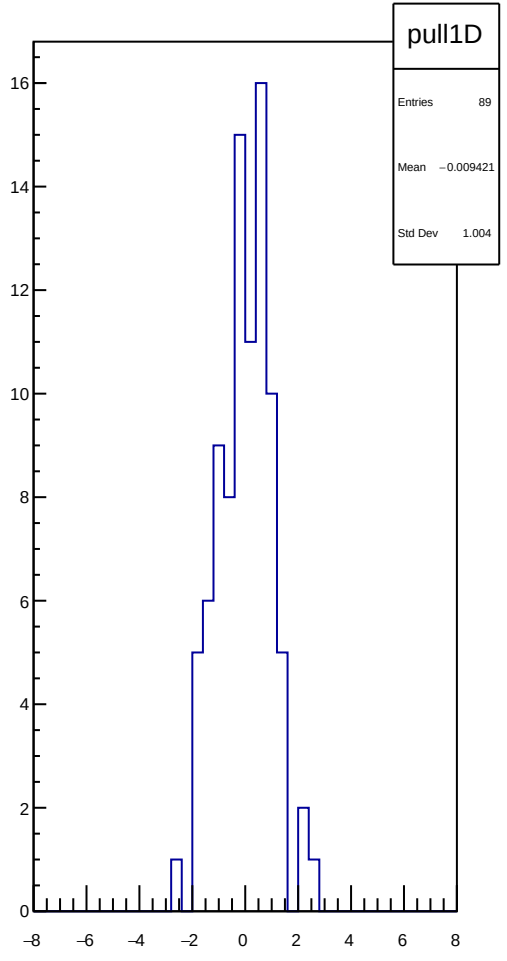

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1013 / 88
p0 1477 ± 1.135
1540
1520
1500
1480
1460
1440
1420
1400
1380

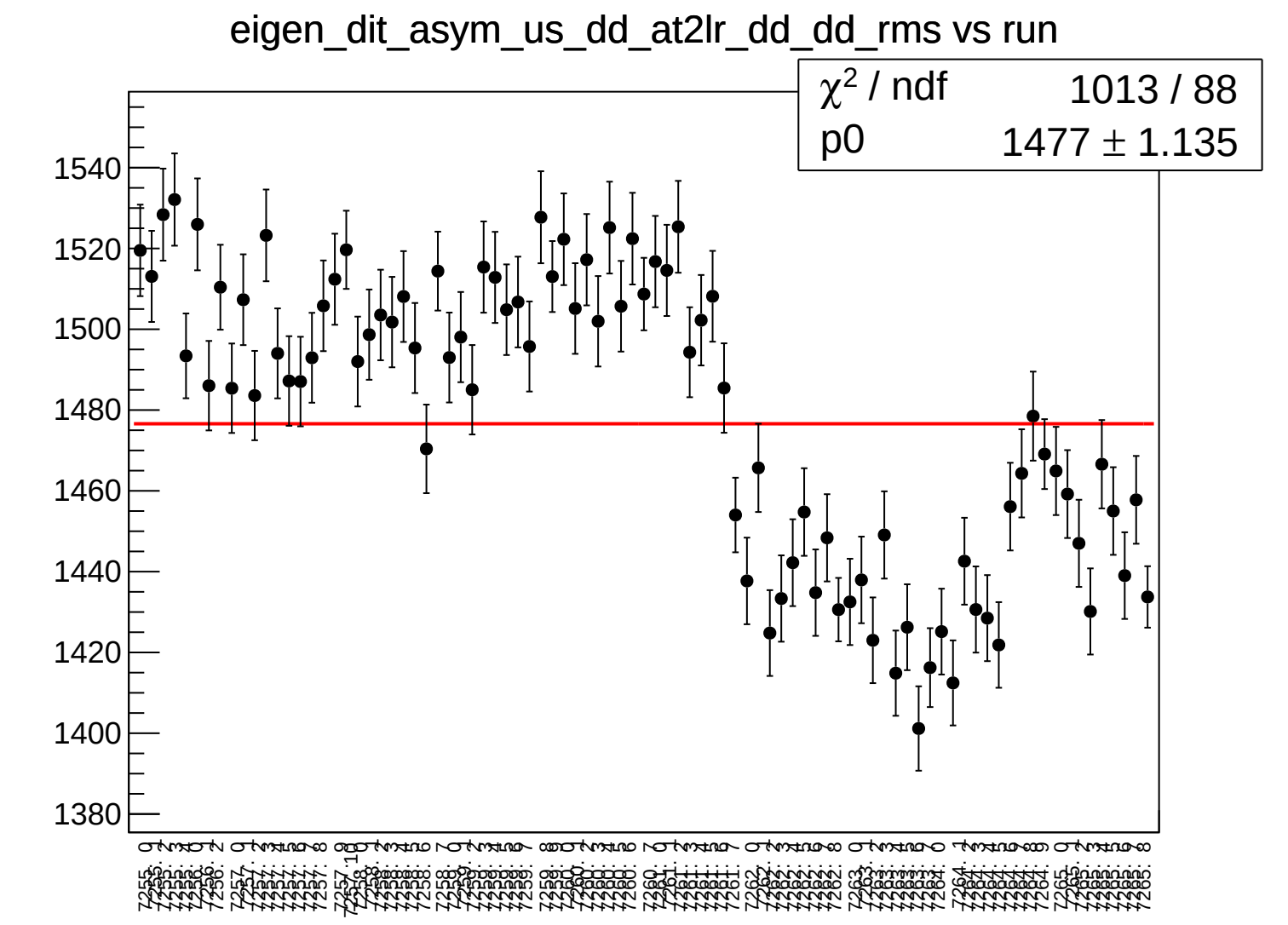

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 90.09 / 88
p0 684.8 ± 757
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1372
Std Dev 0
2
1
0
−1
−2
−3

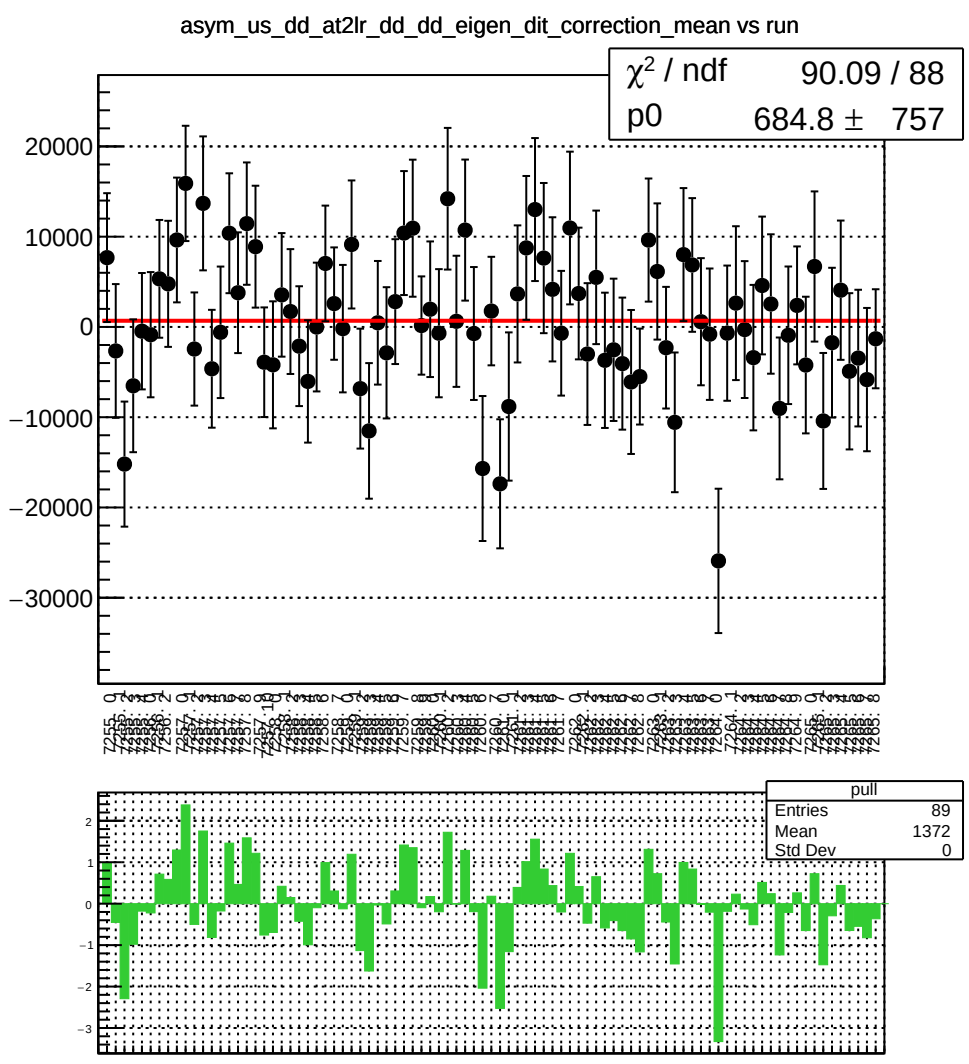

pull1D
Entries 89
Mean −0.003636
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

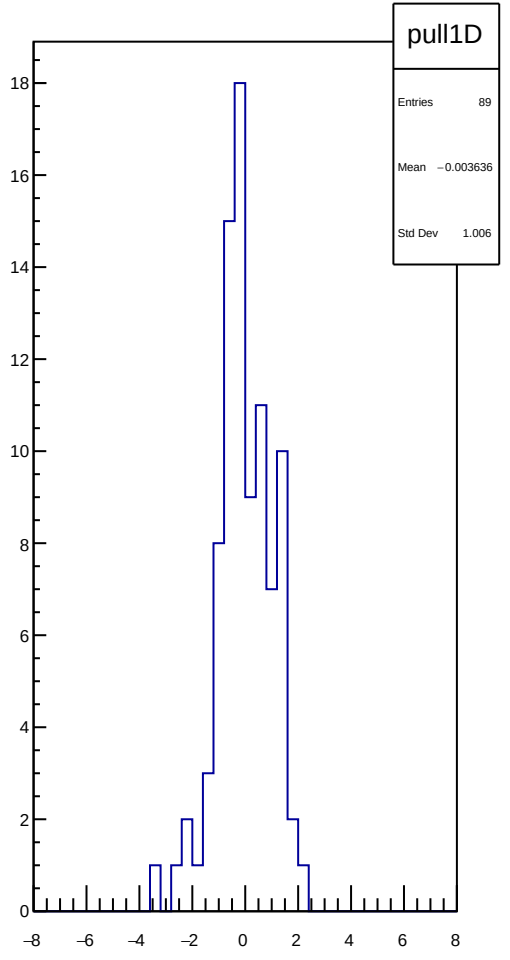

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 8754 / 88
p0 695.1 ± 0.5353
850
800
750
700
650
600

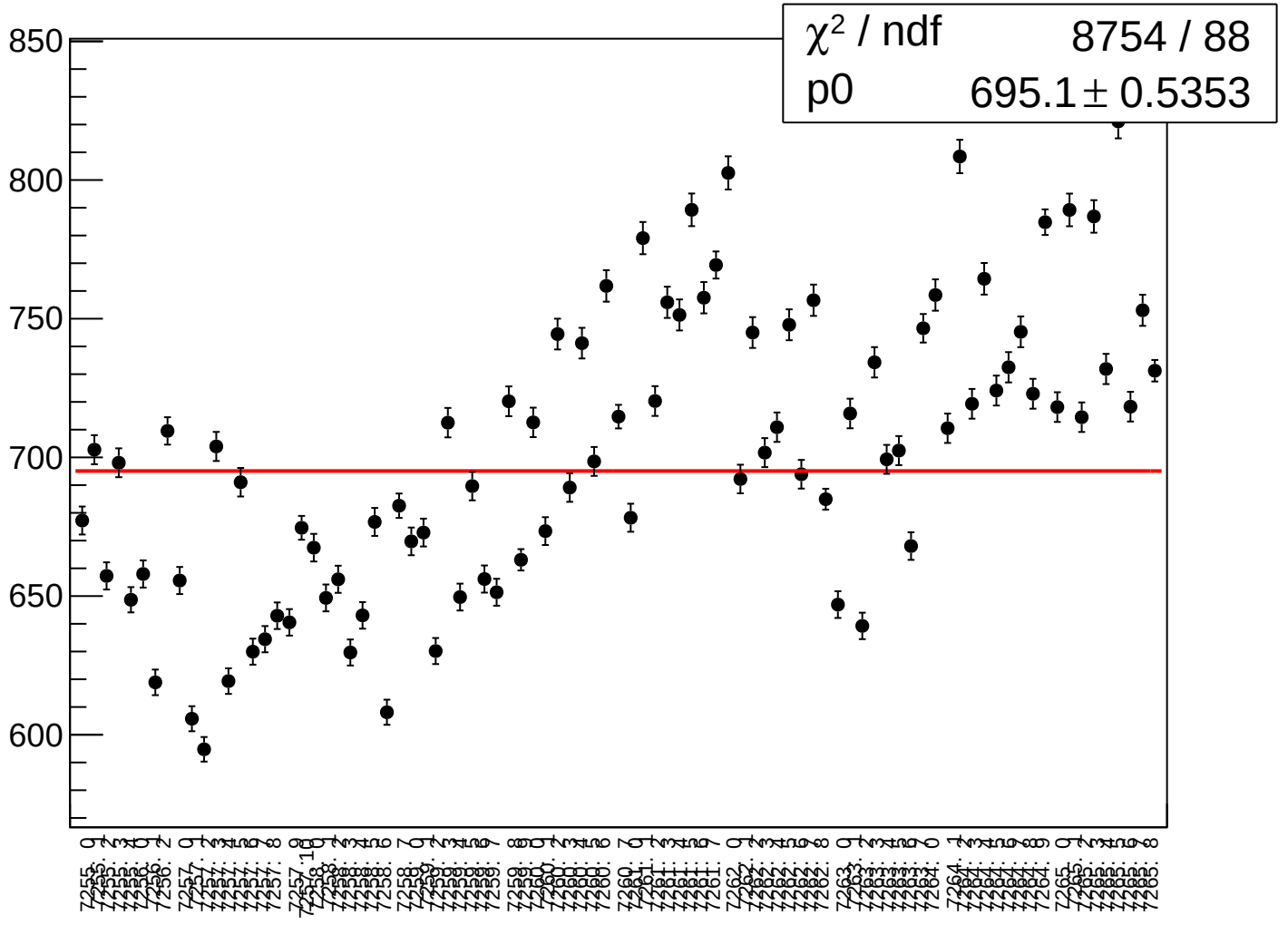

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 89.78 / 88
p0 −635.8 ± 1604
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −62.44
Std Dev 0
2
1
0
−1
−2
−3

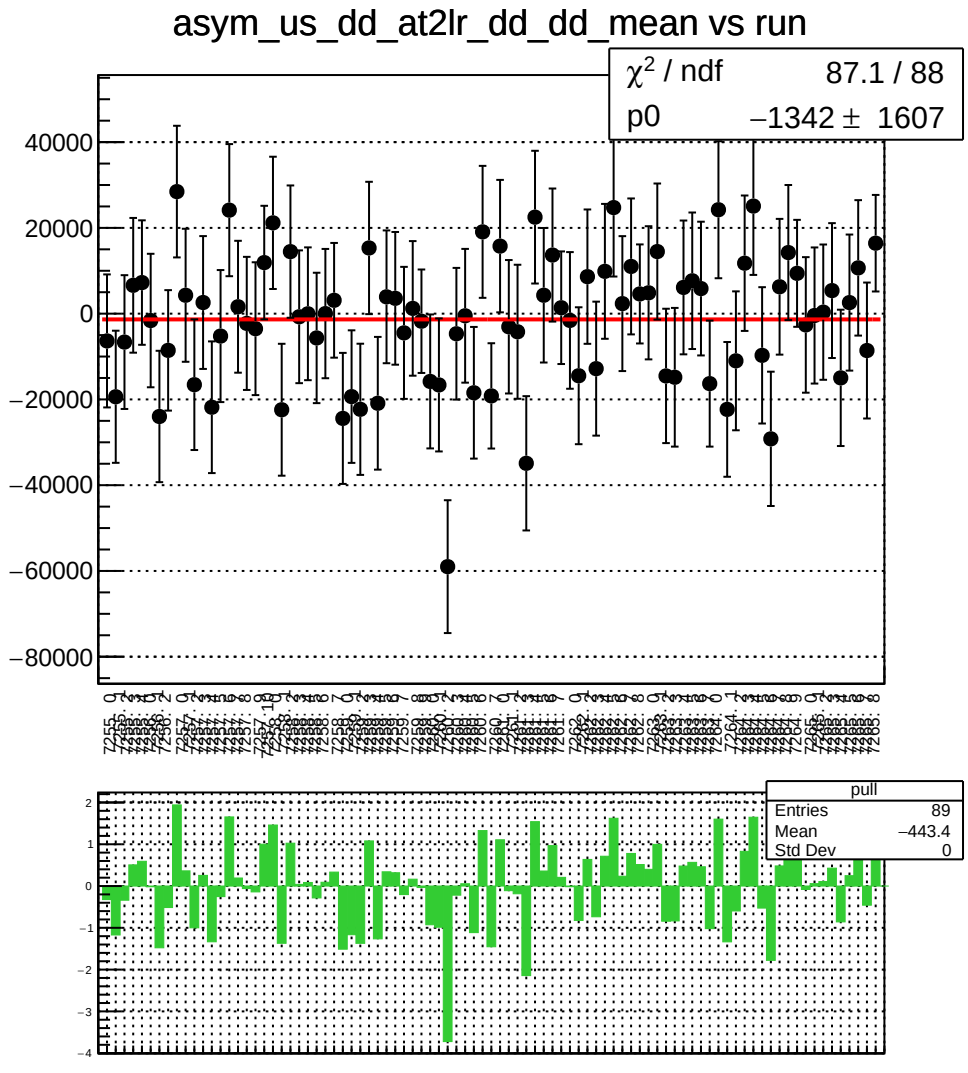

pull1D
Entries 89
Mean −0.009421
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

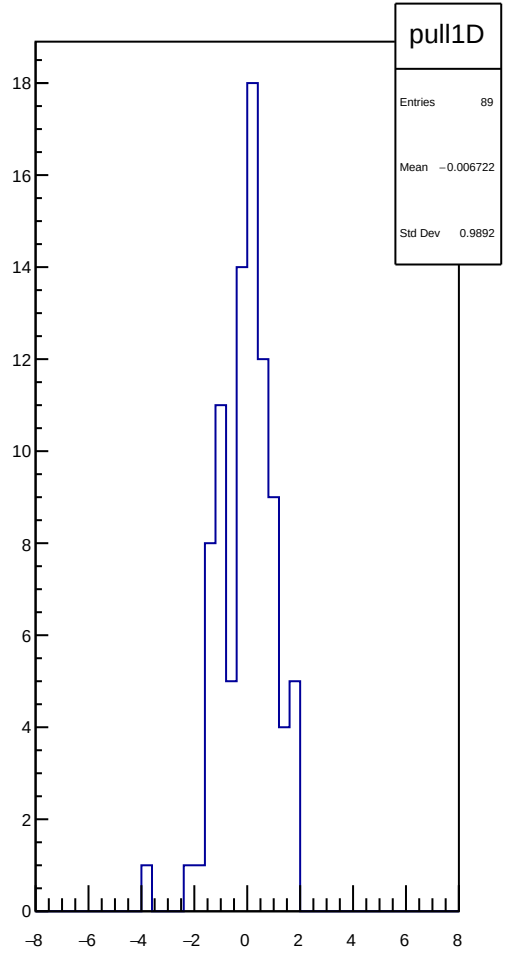

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1013 / 88
p0 1477 ± 1.135
1540
1520
1500
1480
1460
1440
1420
1400
1380

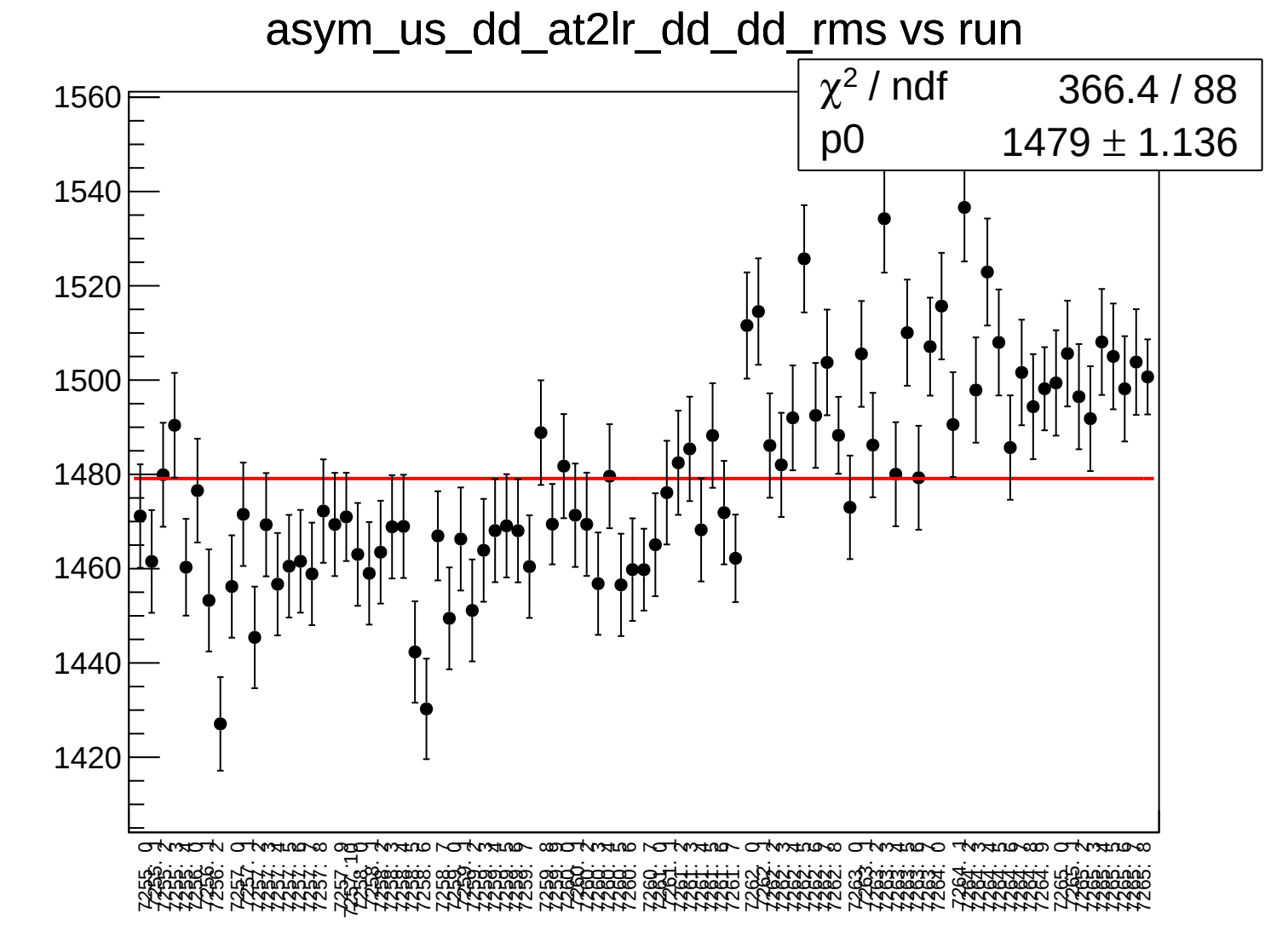

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.09 / 88
p0 684.8 ± 757
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1372
Std Dev 0
2
1
0
−1
−2
−3

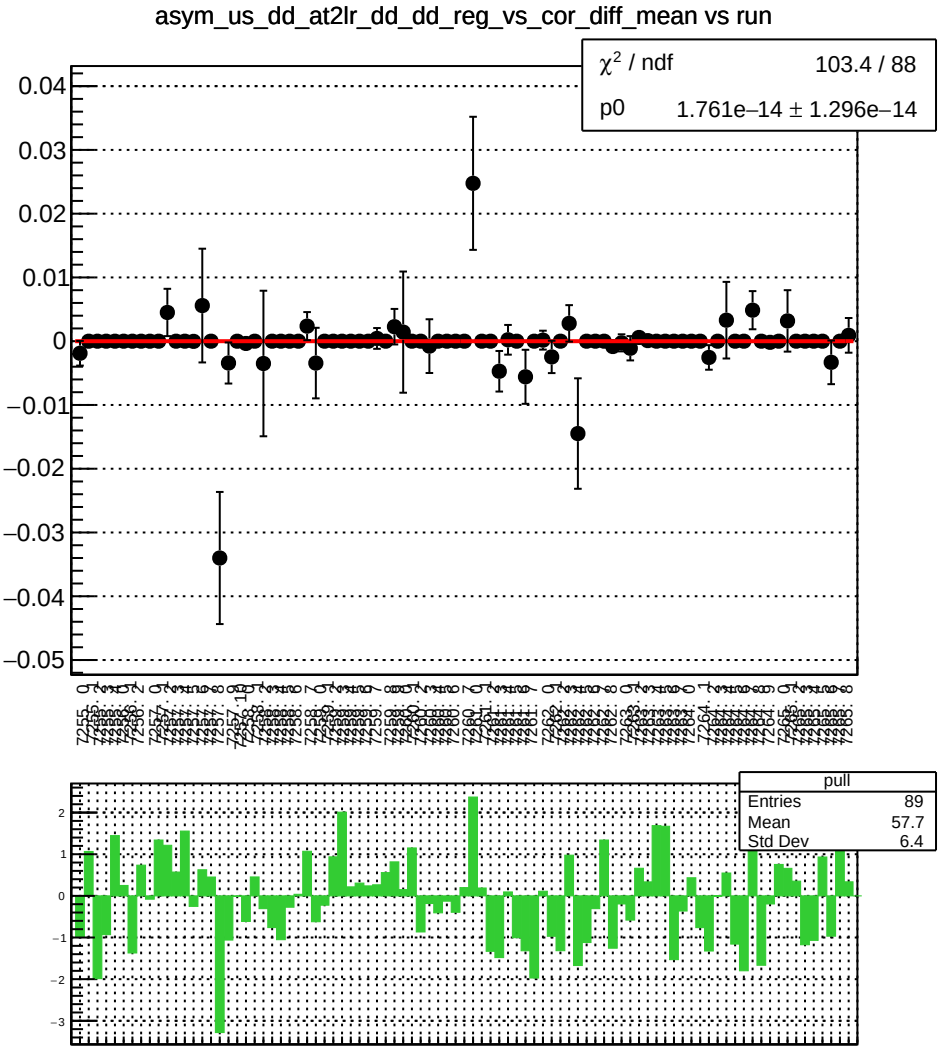

pull1D
Entries 89
Mean −0.003636
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

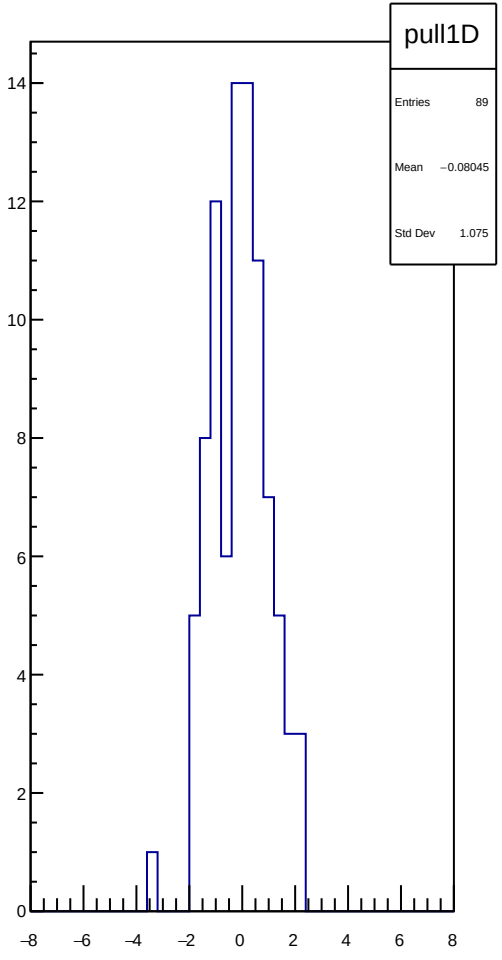

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 8754 / 88
p0 695.1 ± 0.5353
850
800
750
700
650
600

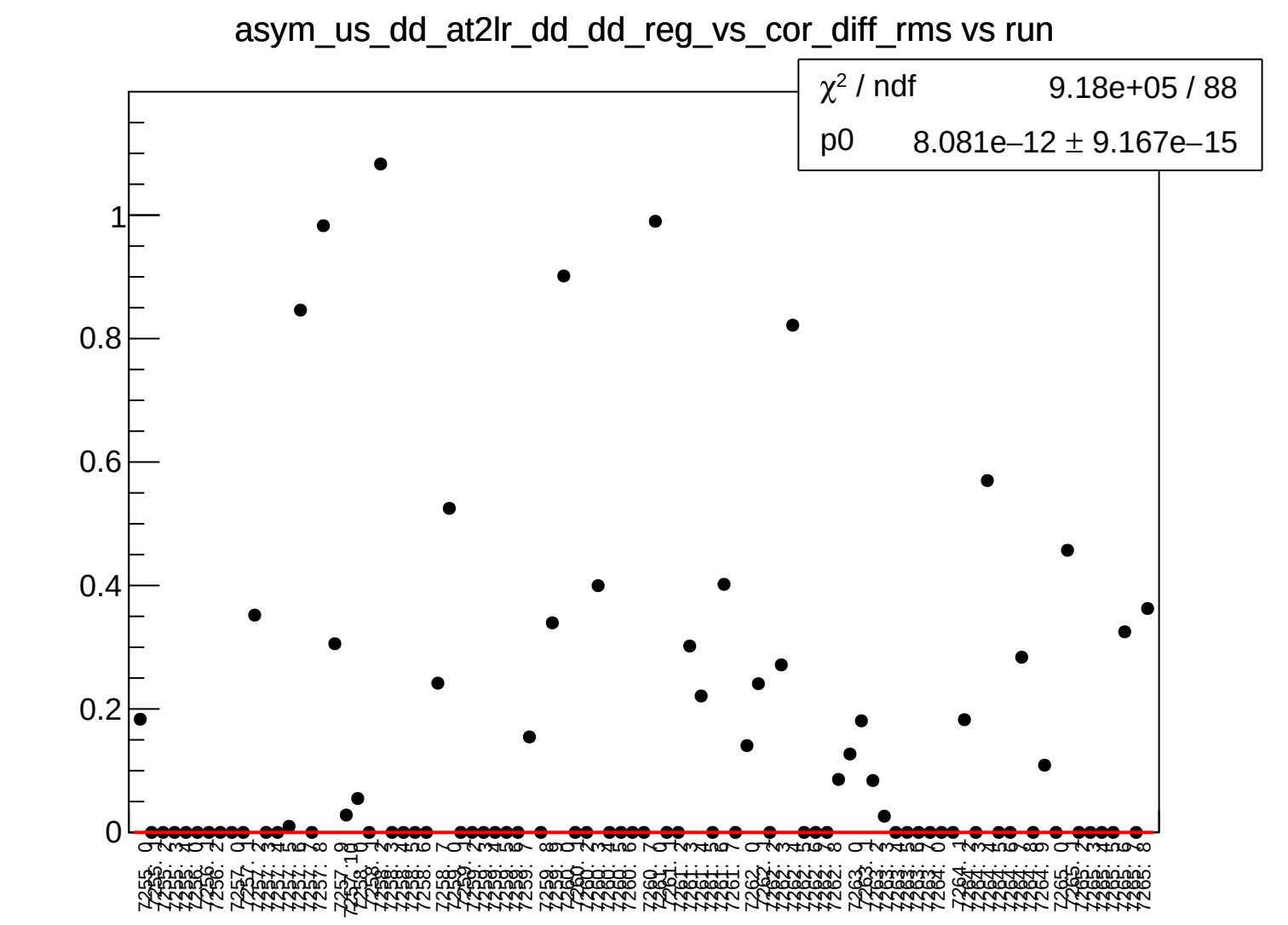

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 87.1 / 88
p0 −1342 ± 1607
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −443.4
Std Dev 0
2
1
0
−1
−2
−3
−4

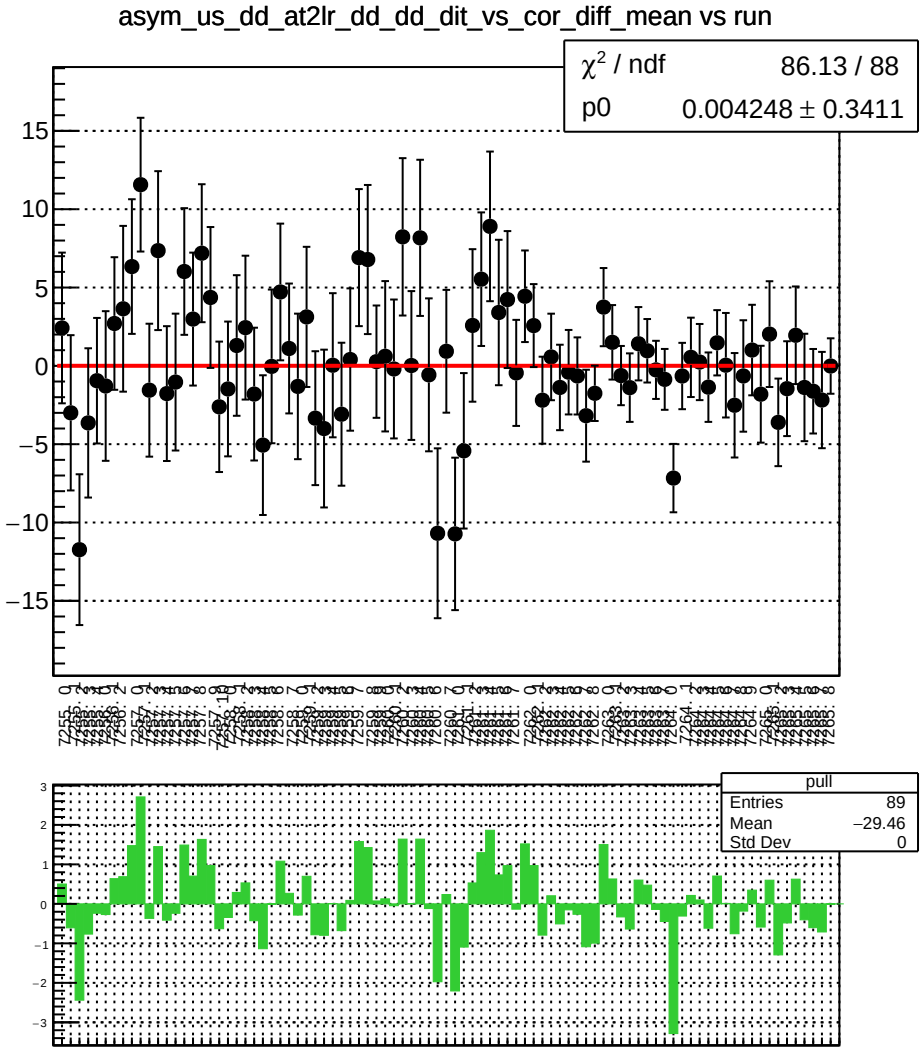

pull1D
Entries 89
Mean −0.006722
Std Dev 0.9892
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

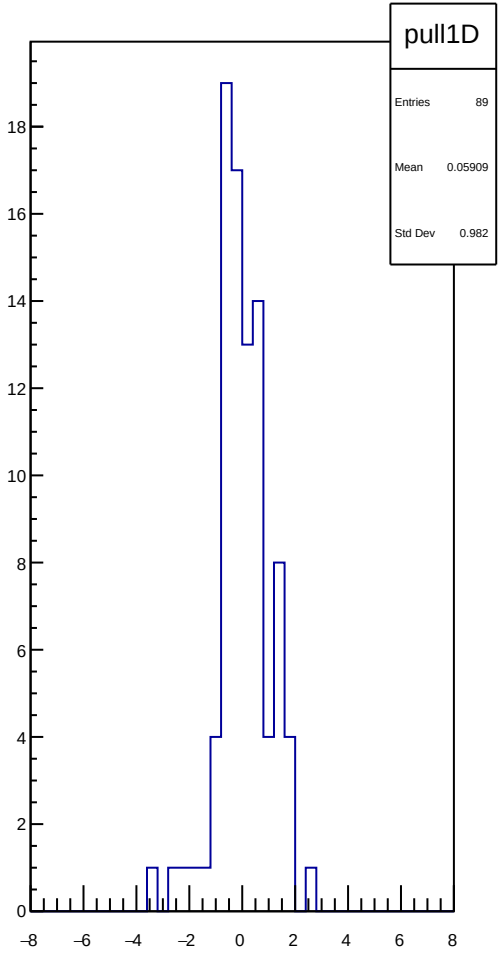

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 366.4 / 88
p0 1479 ± 1.136
1560
1540
1520
1500
1480
1460
1440
1420

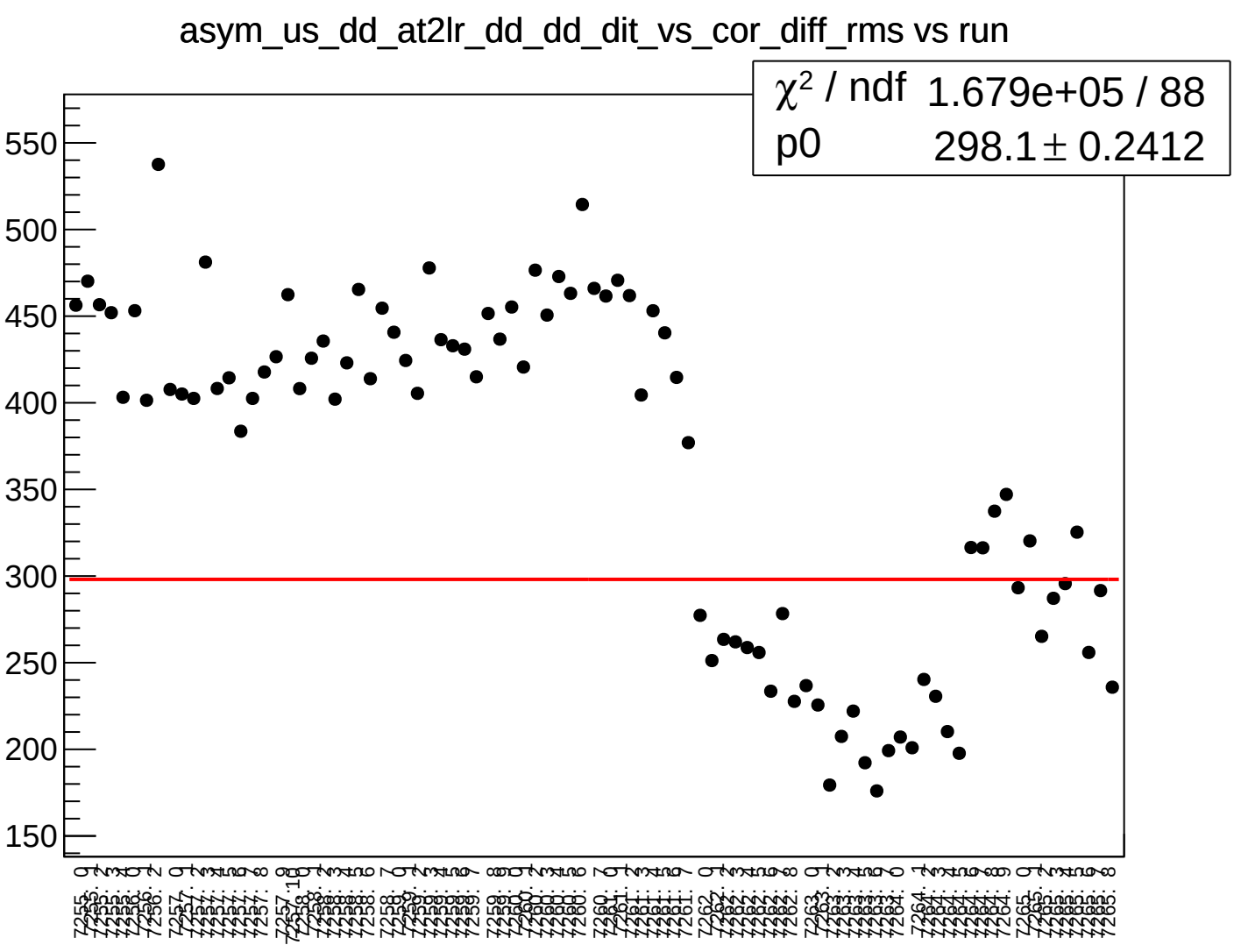

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 88
p0 1.761e−14 ± 1.296e−14
pull
Entries 89
Mean 57.7
Std Dev 6.4

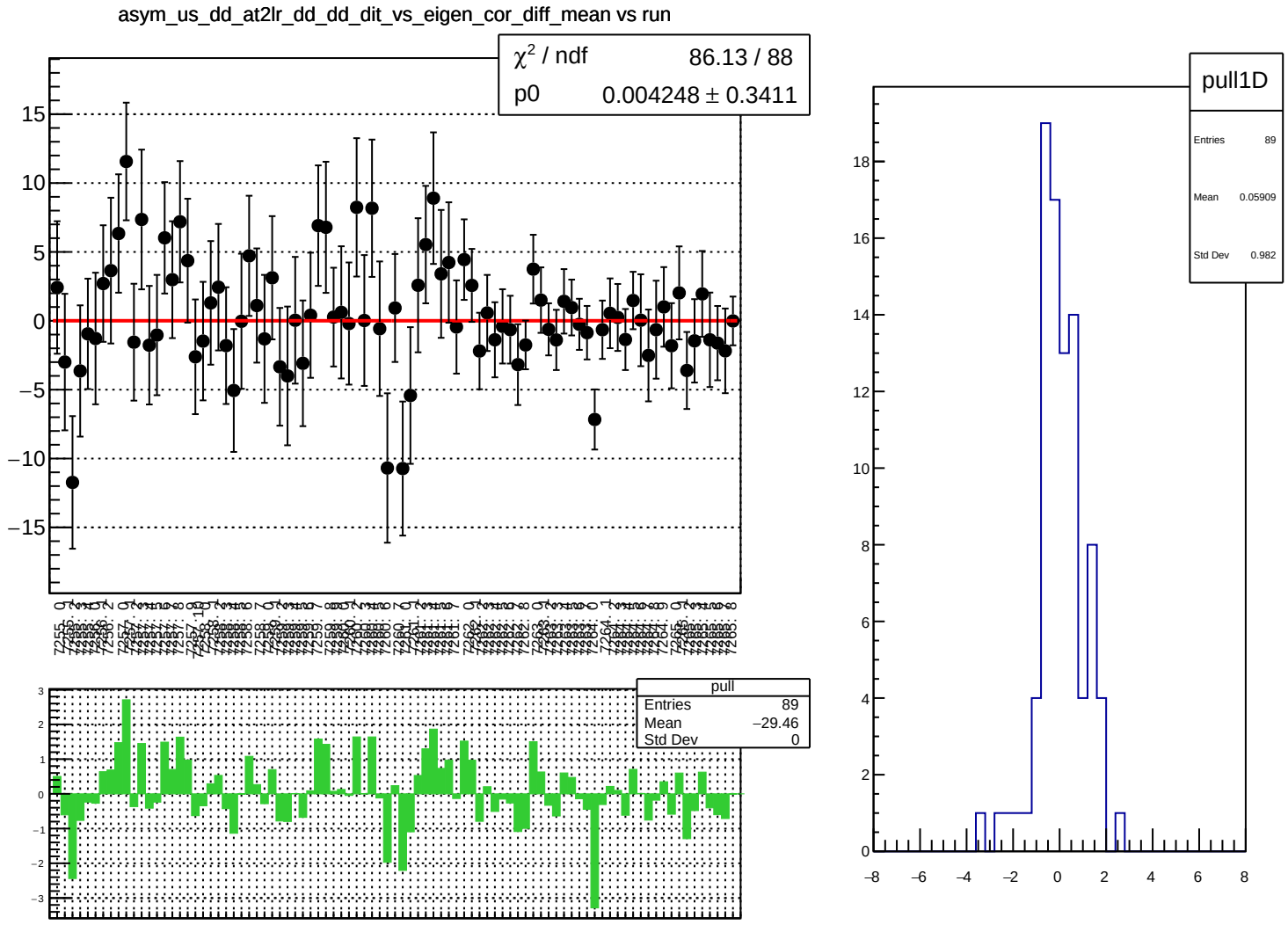

pull1D
Entries 89
Mean −0.08045
Std Dev 1.075

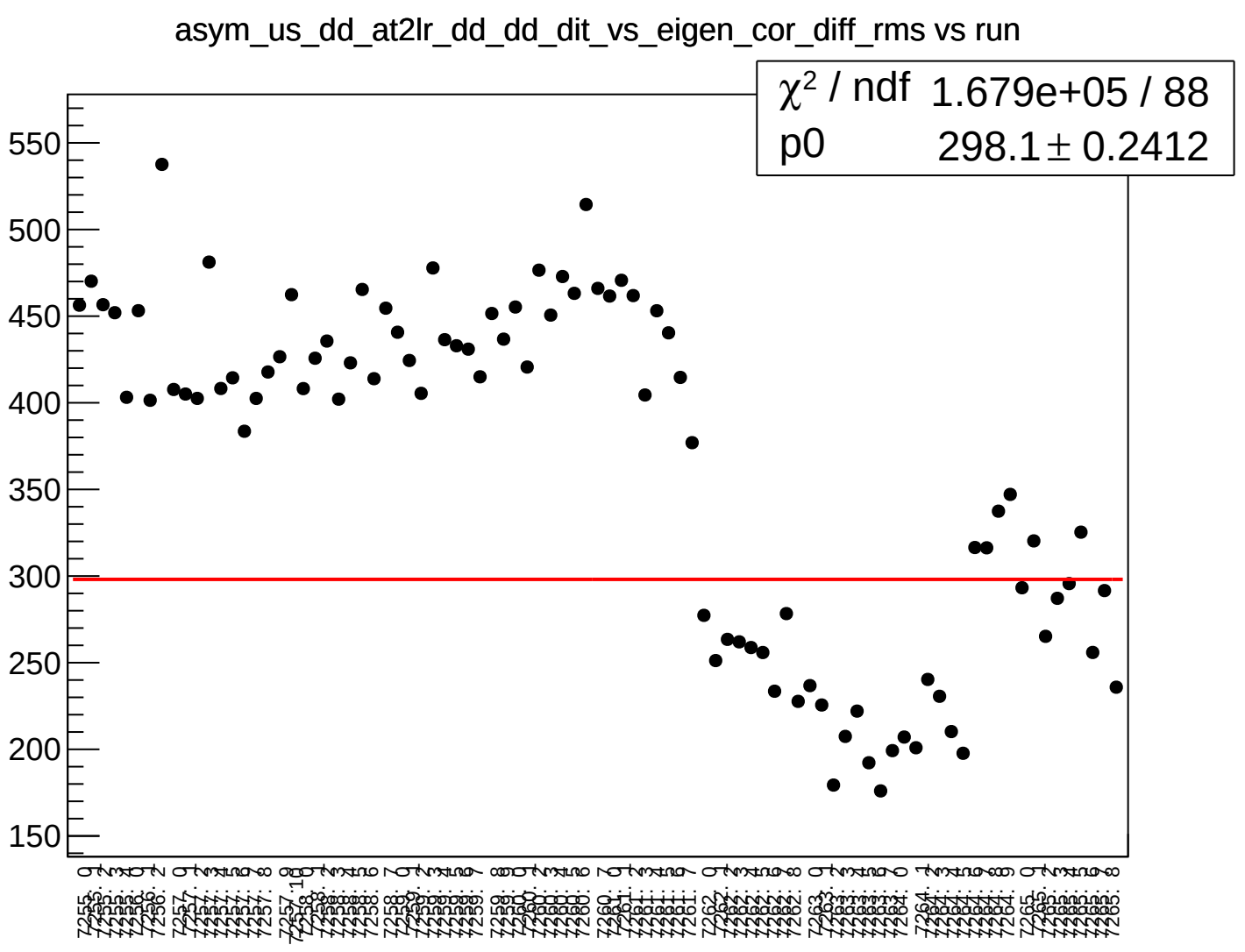

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.18e+05 / 88
p0 8.081e−12 ± 9.167e−15
1
0.8
0.6
0.4
0.2
0

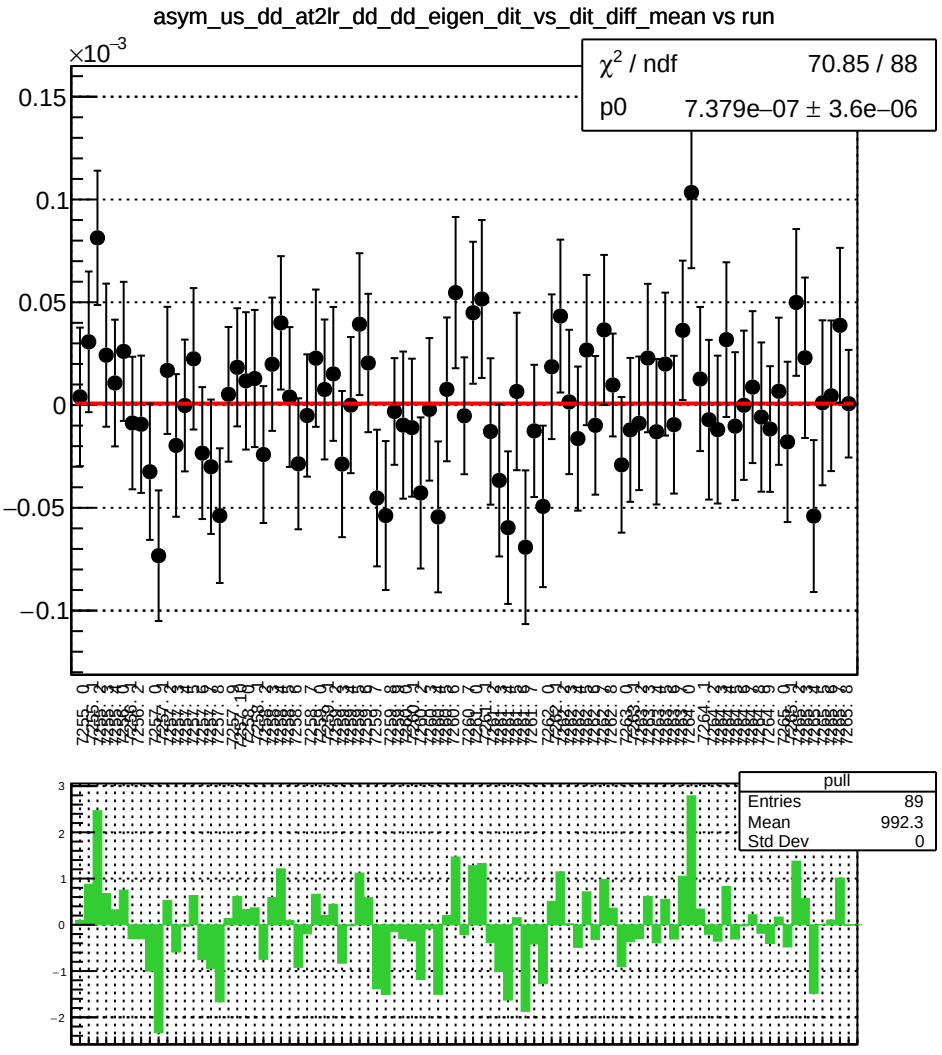

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.13 / 88
p0 0.004248 ± 0.3411
pull
Entries 89
Mean −29.46
Std Dev 0

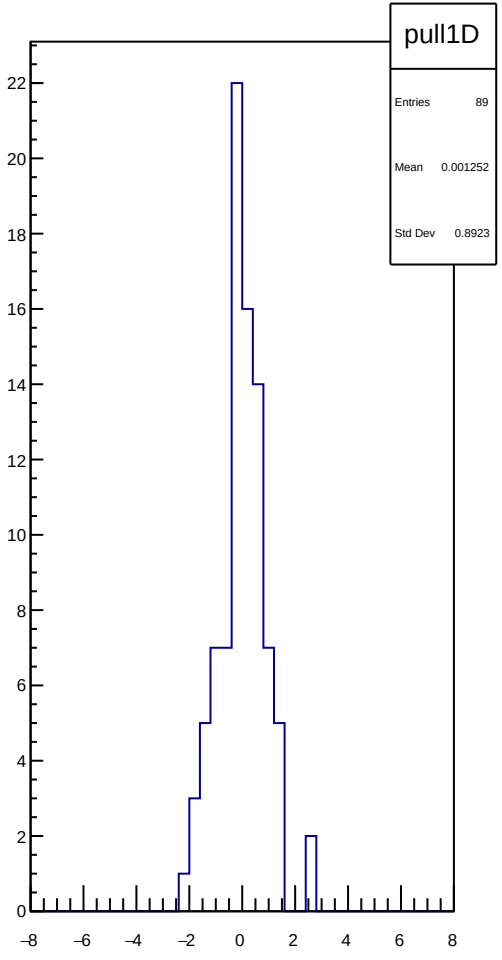

pull1D
Entries 89
Mean 0.05909
Std Dev 0.982

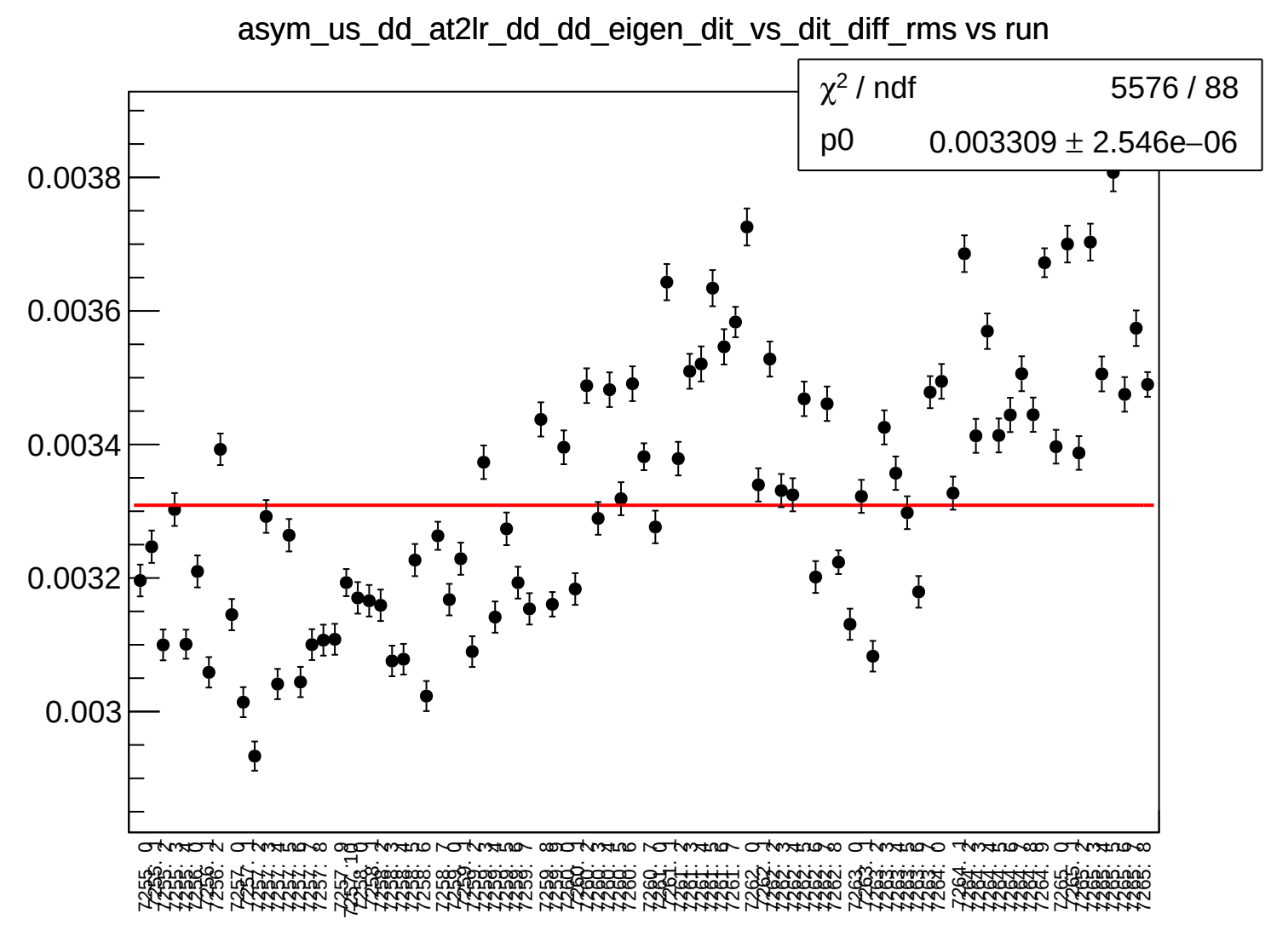

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.679e+05 / 88
p0 298.1 ± 0.2412
550
500
450
400
350
300
250
200
150

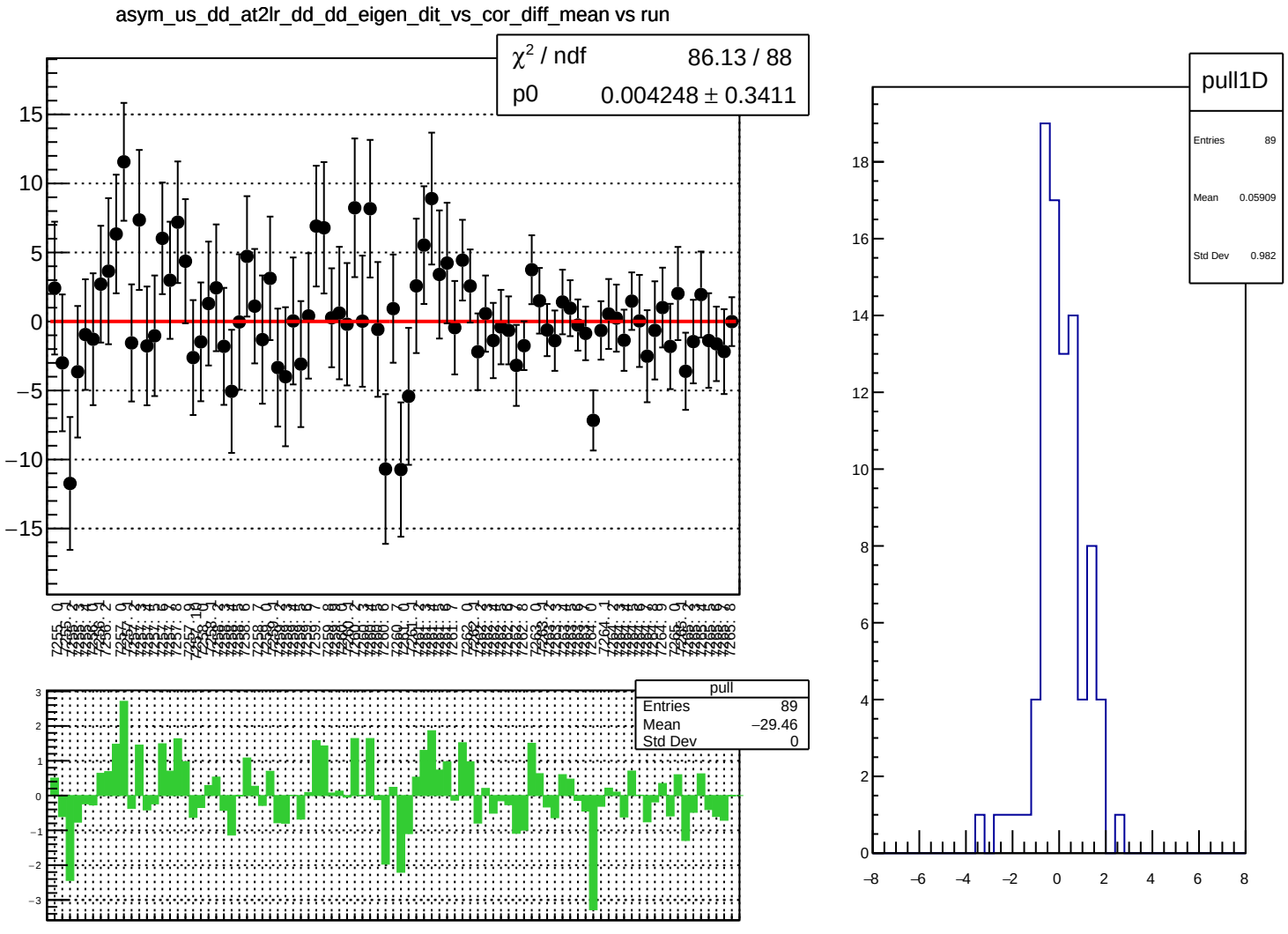

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.13 / 88
p0 0.004248 ± 0.3411
pull
Entries 89
Mean −29.46
Std Dev 0
pull1D
Entries 89
Mean 0.05909
Std Dev 0.982

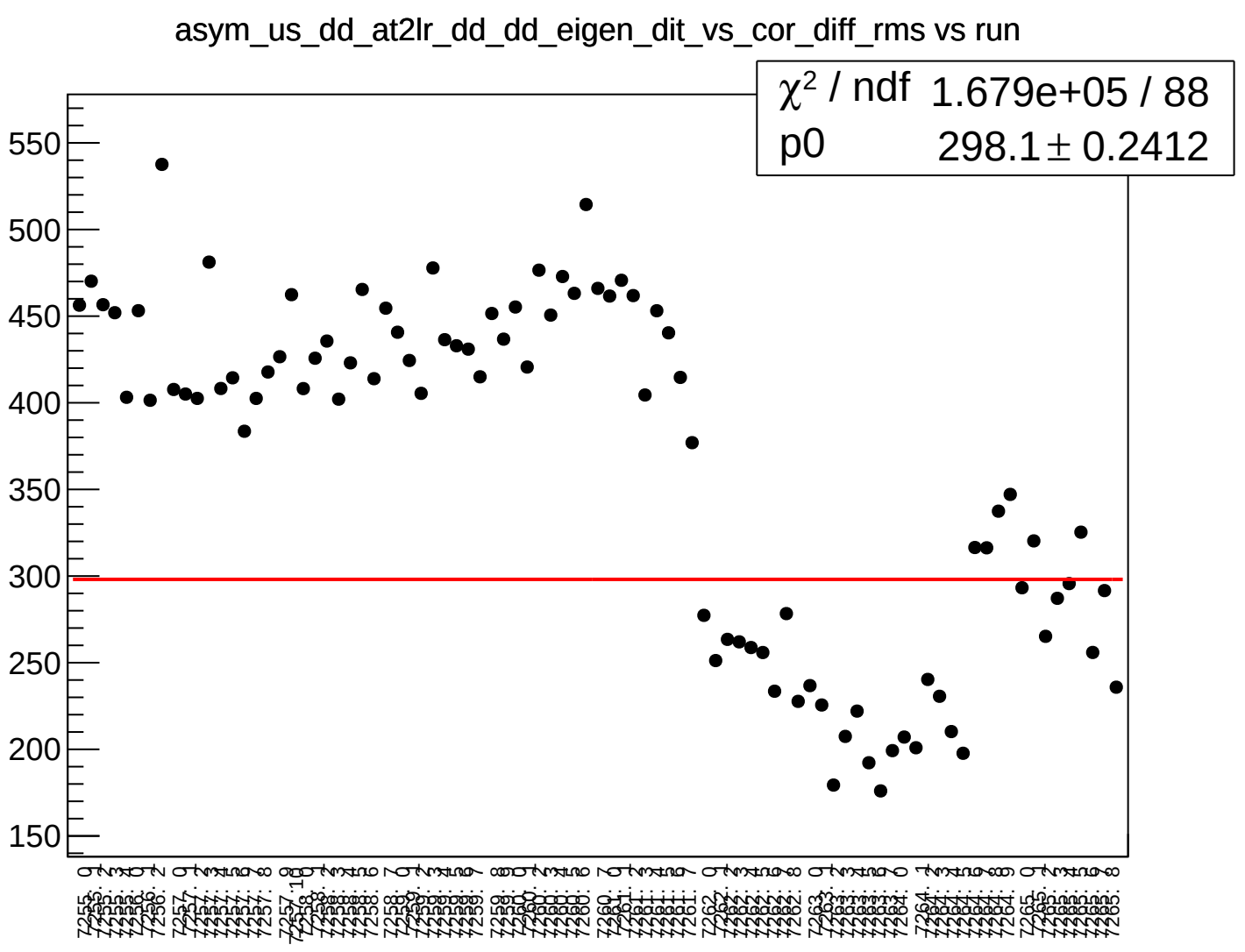

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.679e+05 / 88
p0 298.1 ± 0.2412
550
500
450
400
350
300
250
200
150

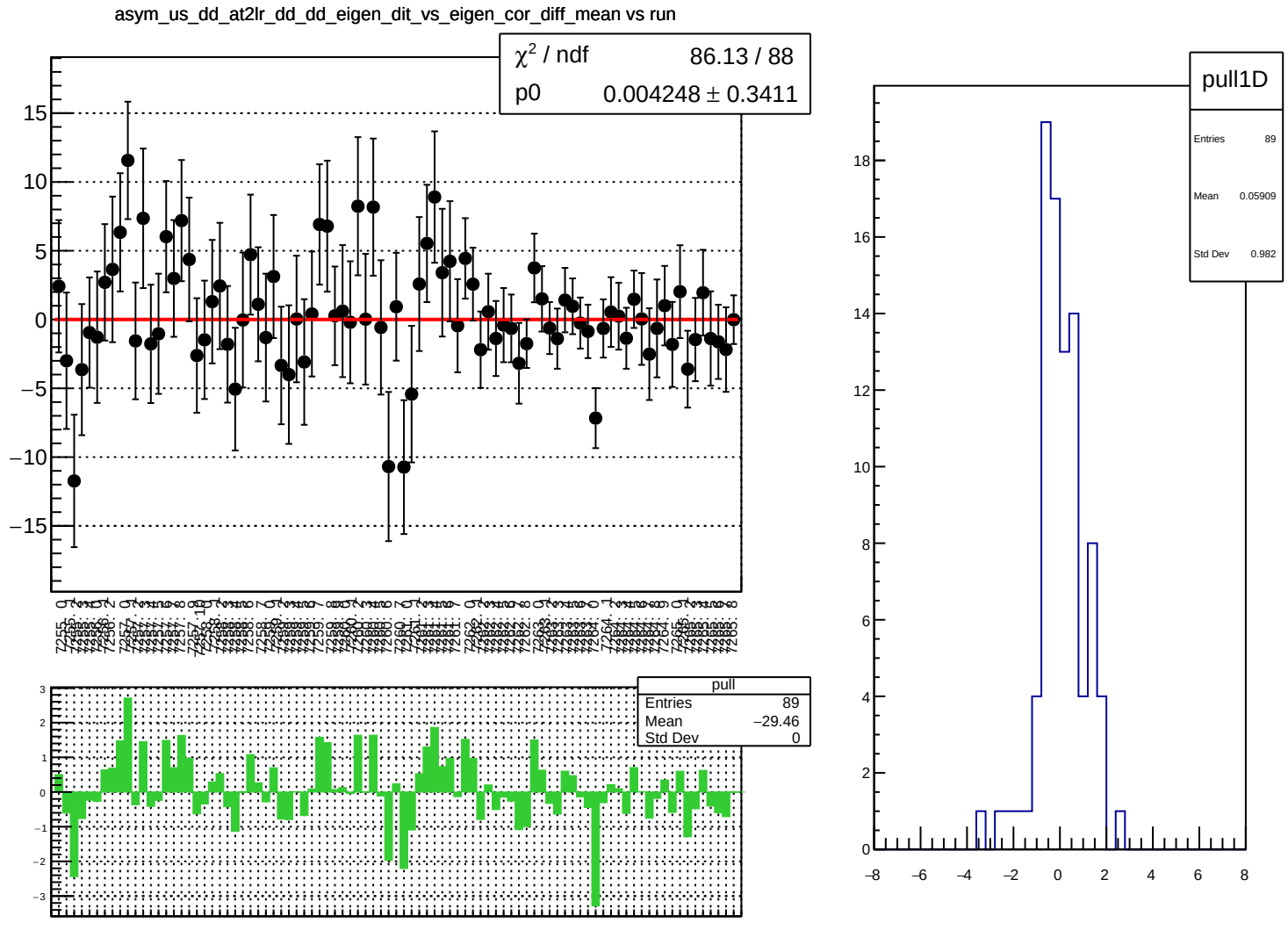

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.85 / 88
p0 7.379e−07 ± 3.6e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 992.3
Std Dev 0
3
2
1
0
−1
−2

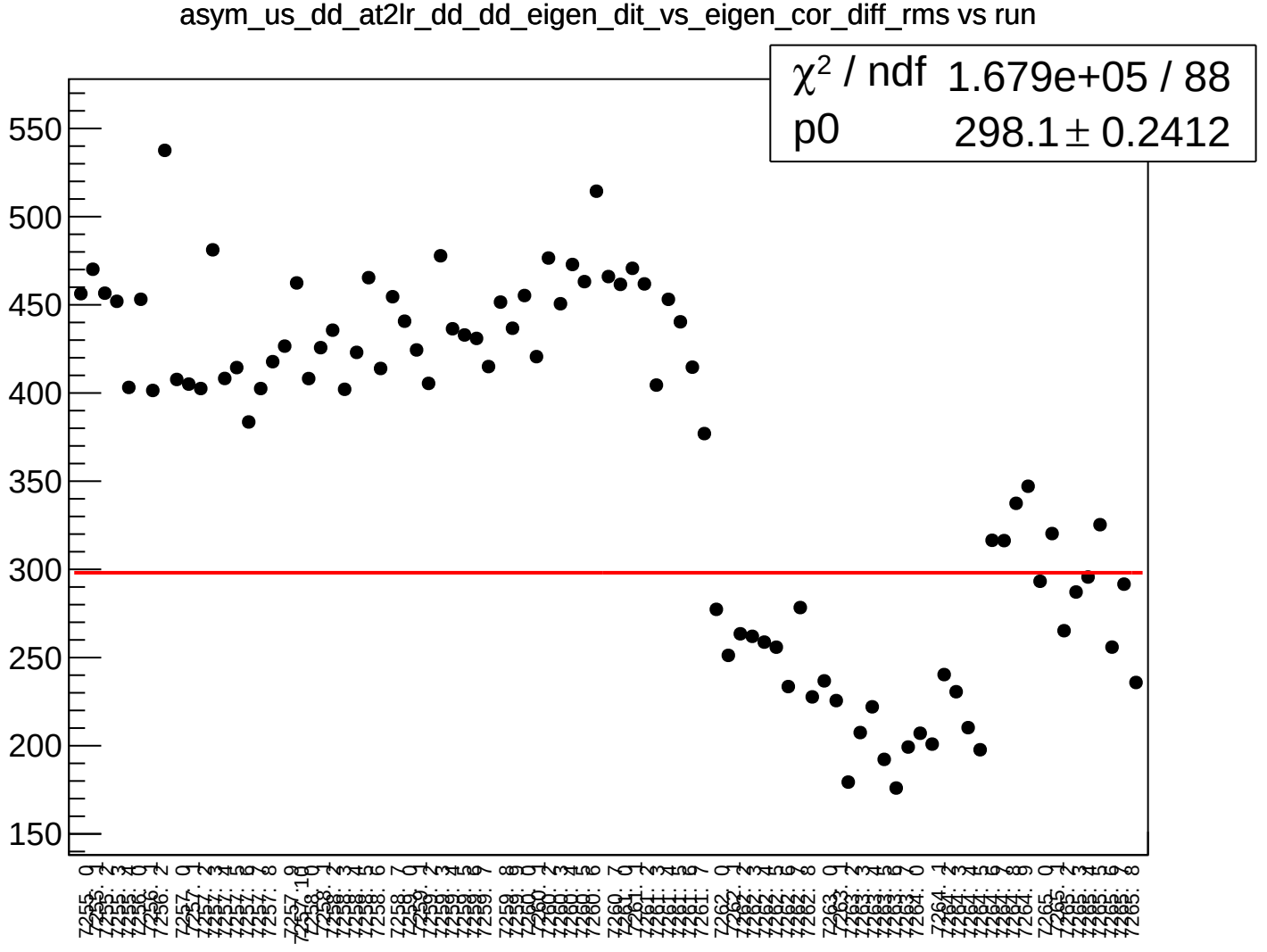

pull1D
Entries 89
Mean 0.001252
Std Dev 0.8923
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

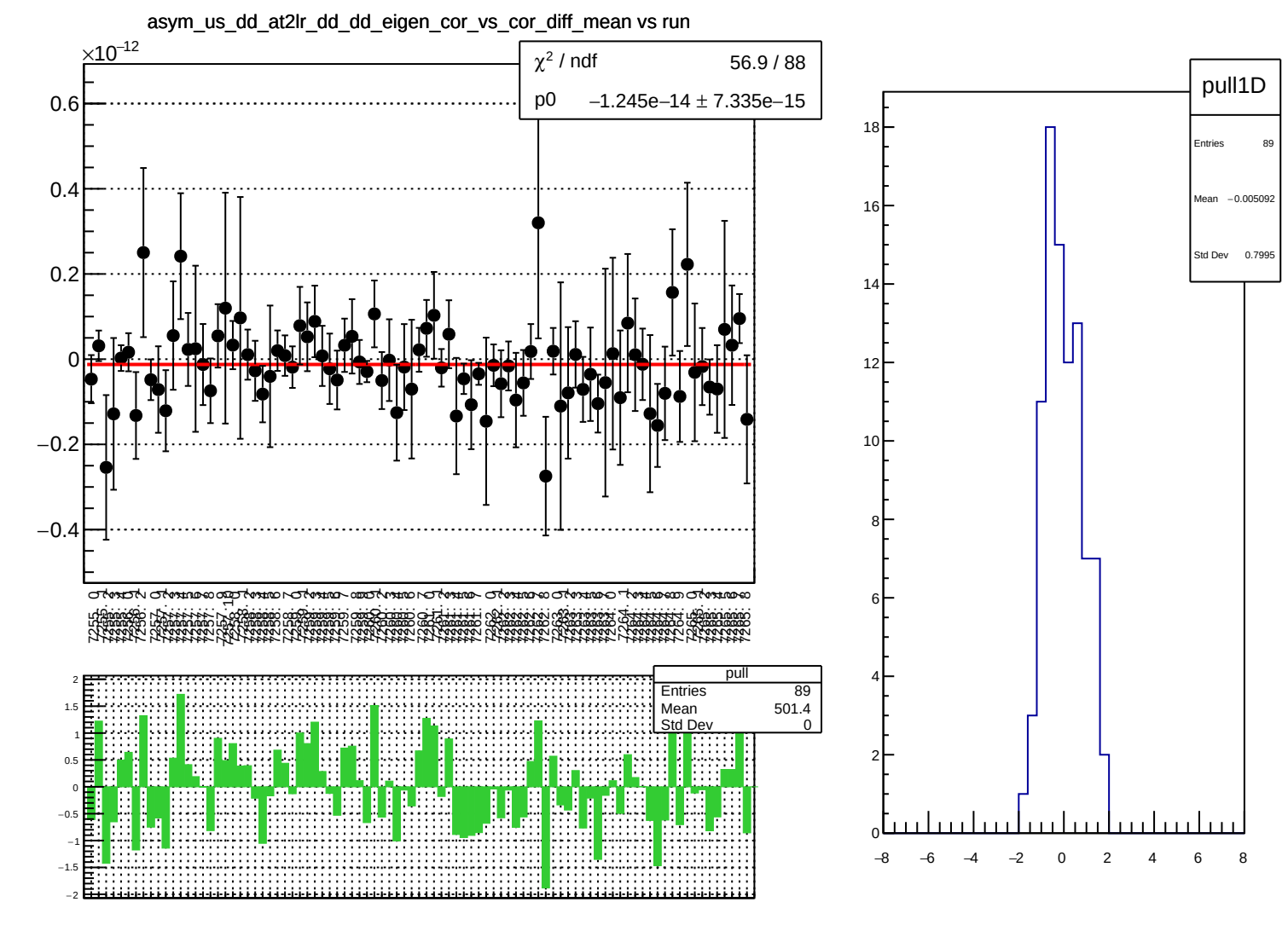

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5576 / 88
p0 0.003309 ± 2.546e−06
0.0038
0.0036
0.0034
0.0032
0.003

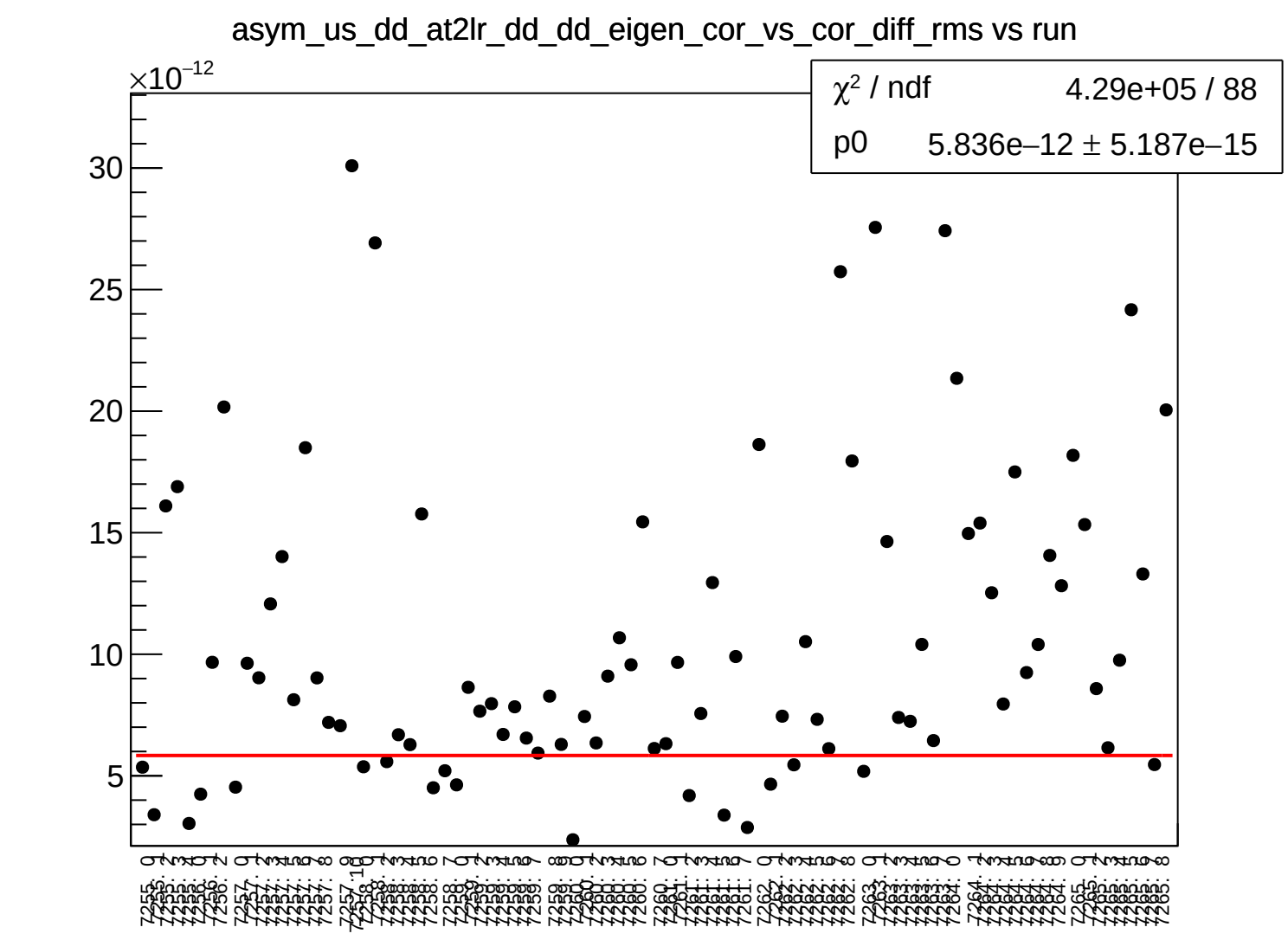

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.13 / 88
p0 0.004248 ± 0.3411
pull
Entries 89
Mean −29.46
Std Dev 0
pull1D
Entries 89
Mean 0.05909
Std Dev 0.982

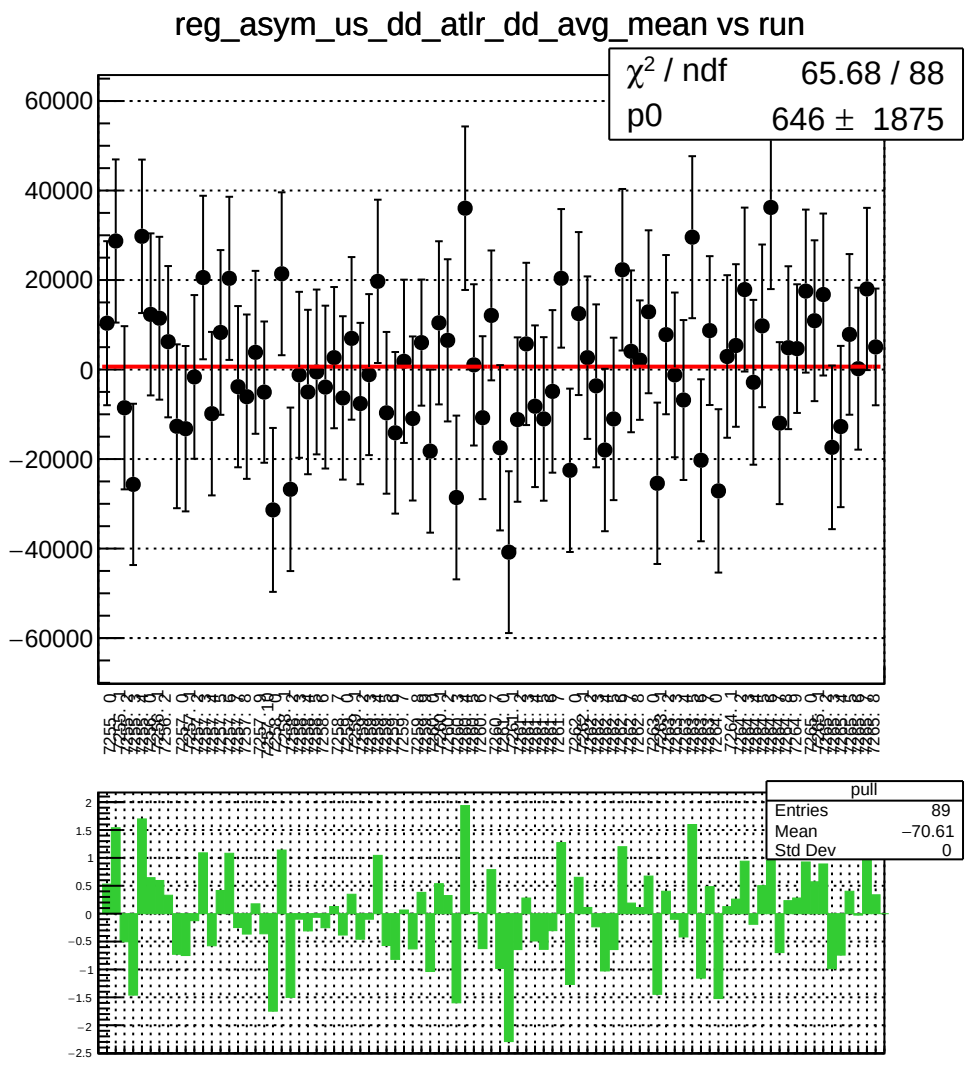

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.679e+05 / 88
p0 298.1 ± 0.2412
550
500
450
400
350
300
250
200
150

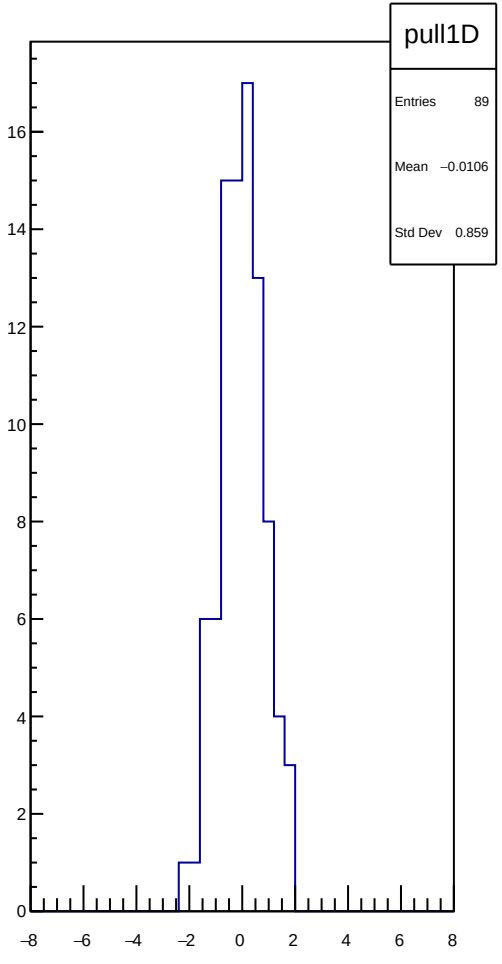

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.13 / 88
p0 0.004248 ± 0.3411
pull
Entries 89
Mean −29.46
Std Dev 0
pull1D
Entries 89
Mean 0.05909
Std Dev 0.982

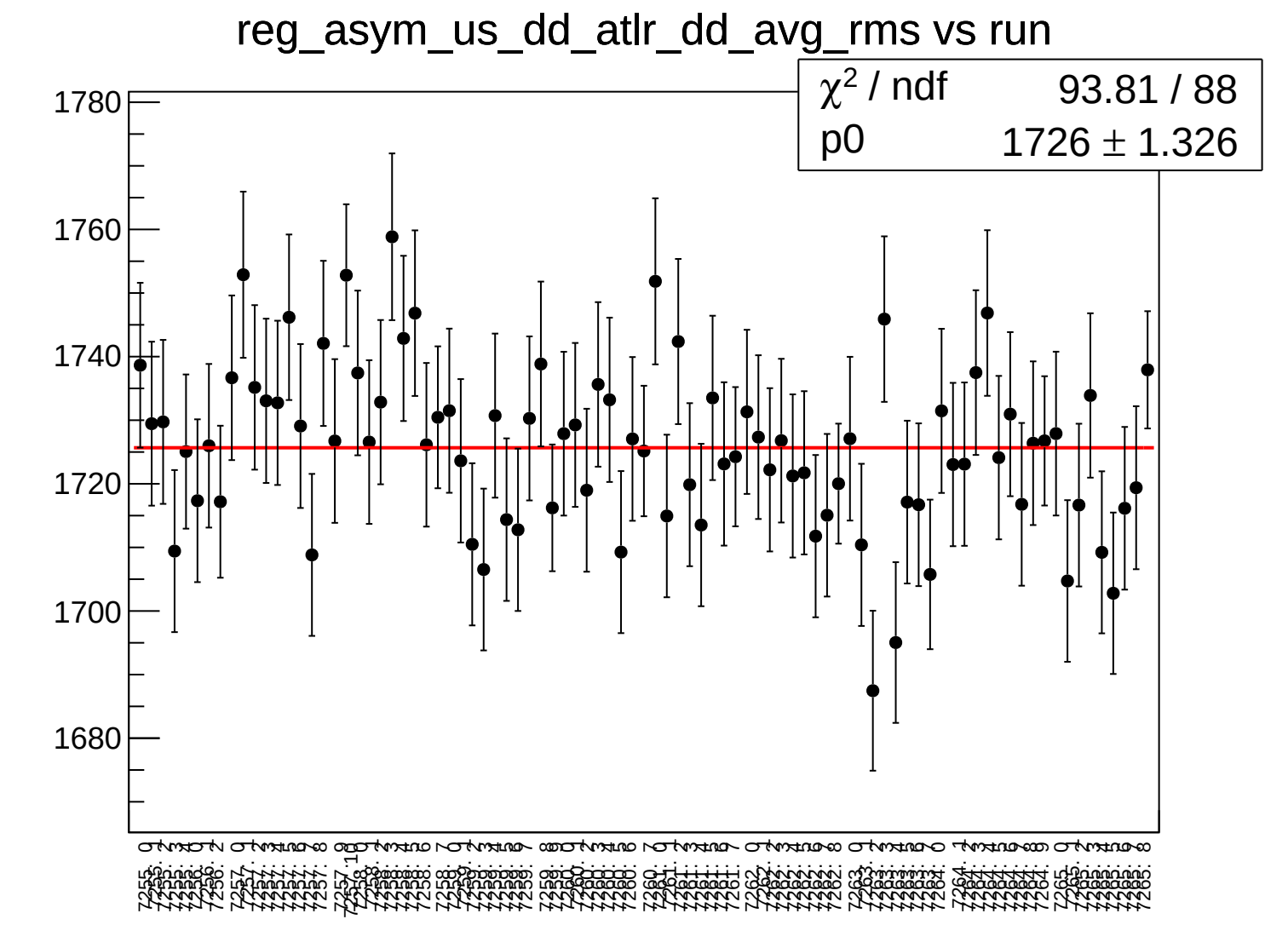

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.679e+05 / 88
p0 298.1 ± 0.2412
550
500
450
400
350
300
250
200
150

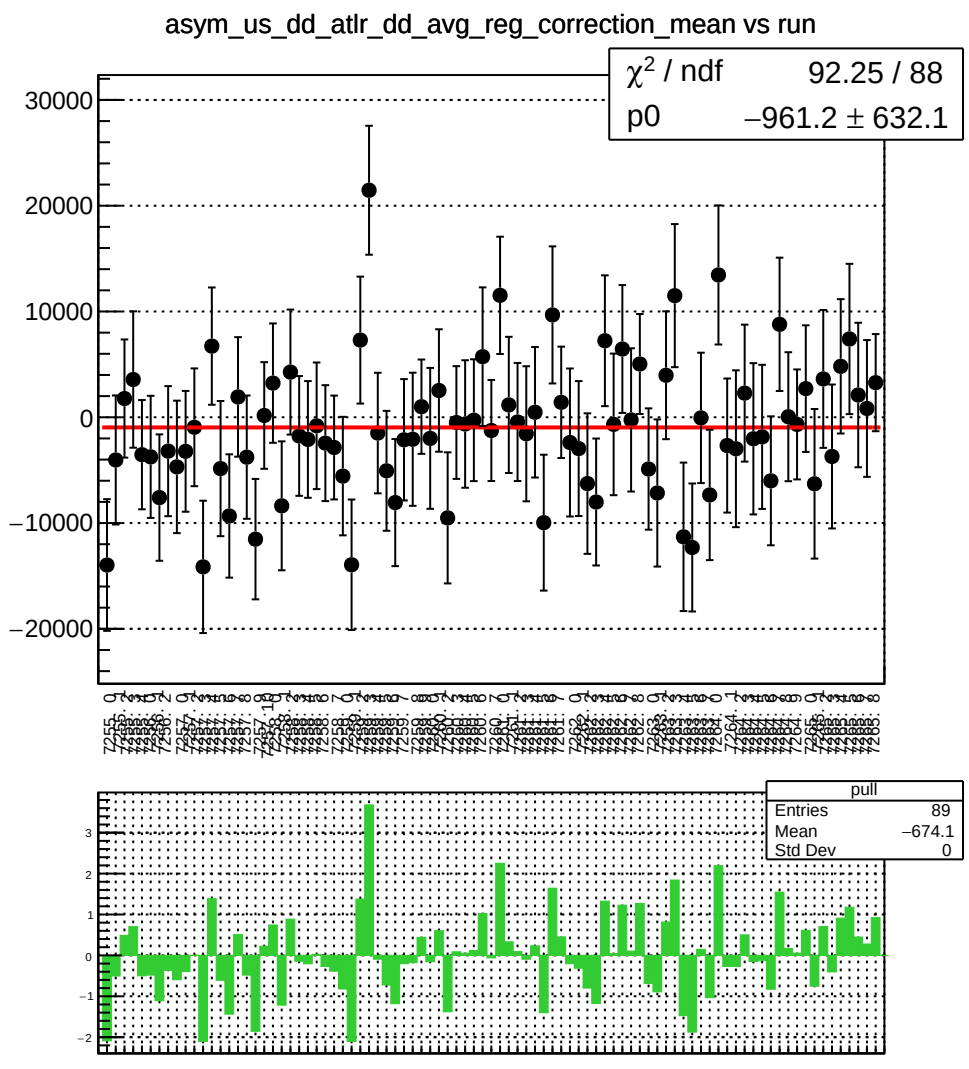

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 56.9 / 88
p0 −1.245e−14 ± 7.335e−15
pull
Entries 89
Mean 501.4
Std Dev 0
pull1D
Entries 89
Mean −0.005092
Std Dev 0.7995

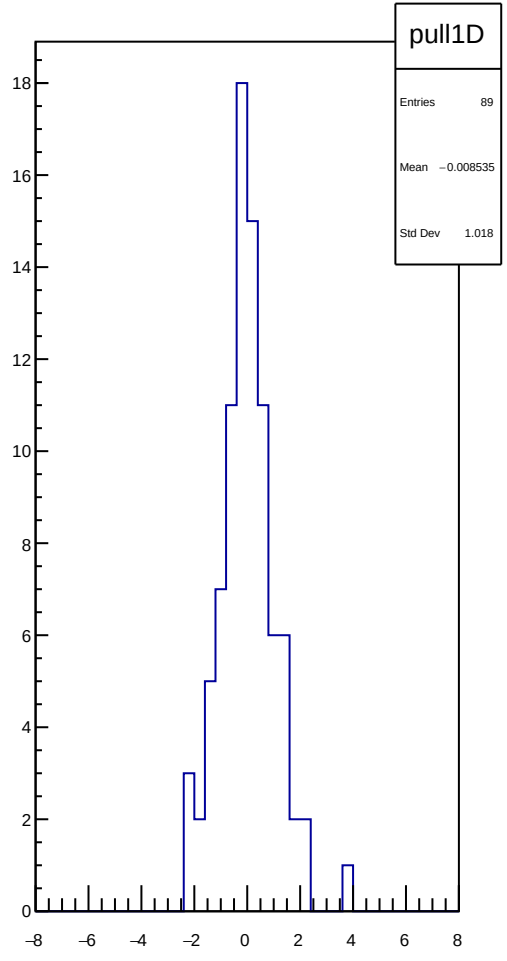

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.29e+05 / 88
p0 5.836e−12 ± 5.187e−15
30
25
20
15
10
5

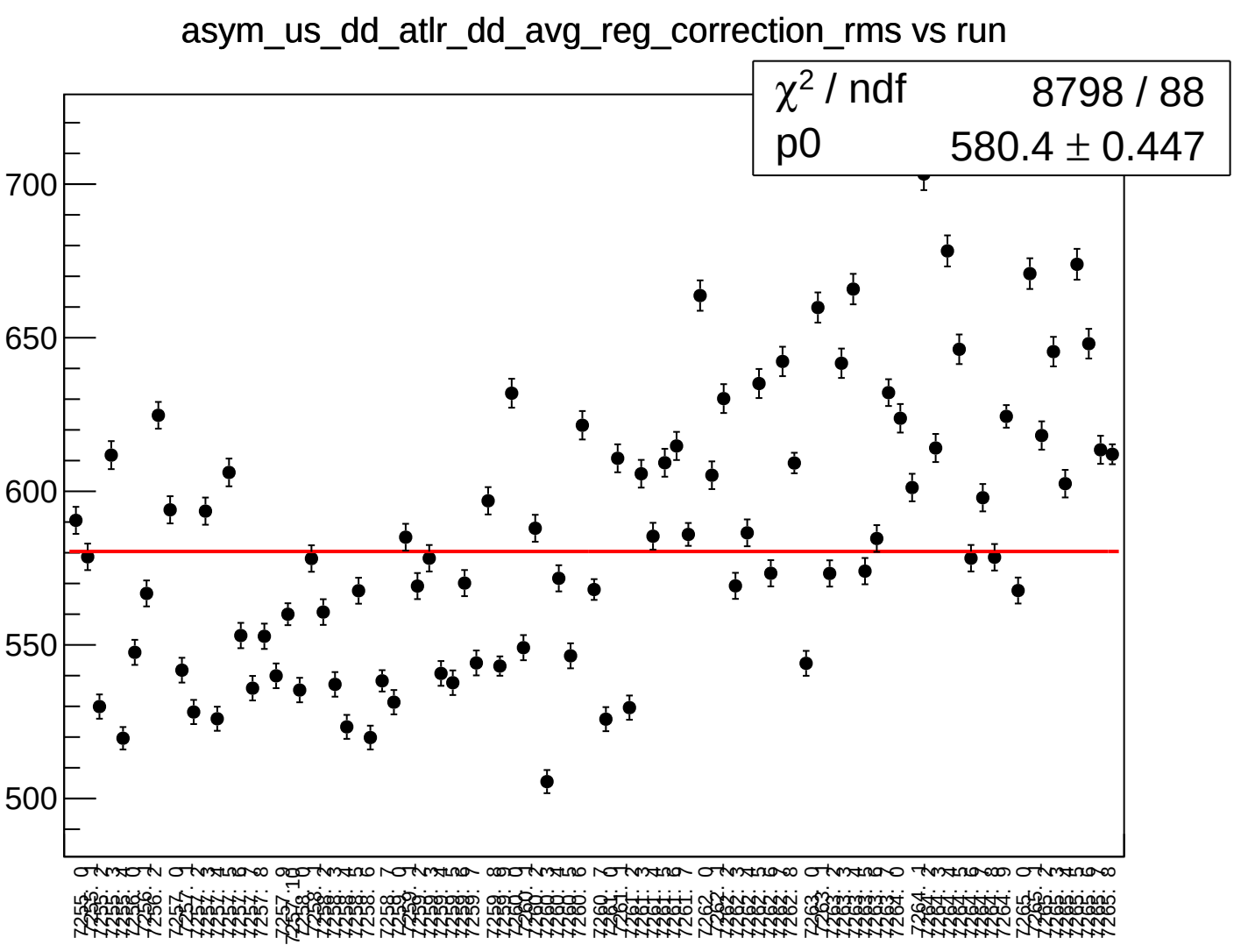

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 65.68 / 88
p0 646 ± 1875
pull
Entries 89
Mean −70.61
Std Dev 0

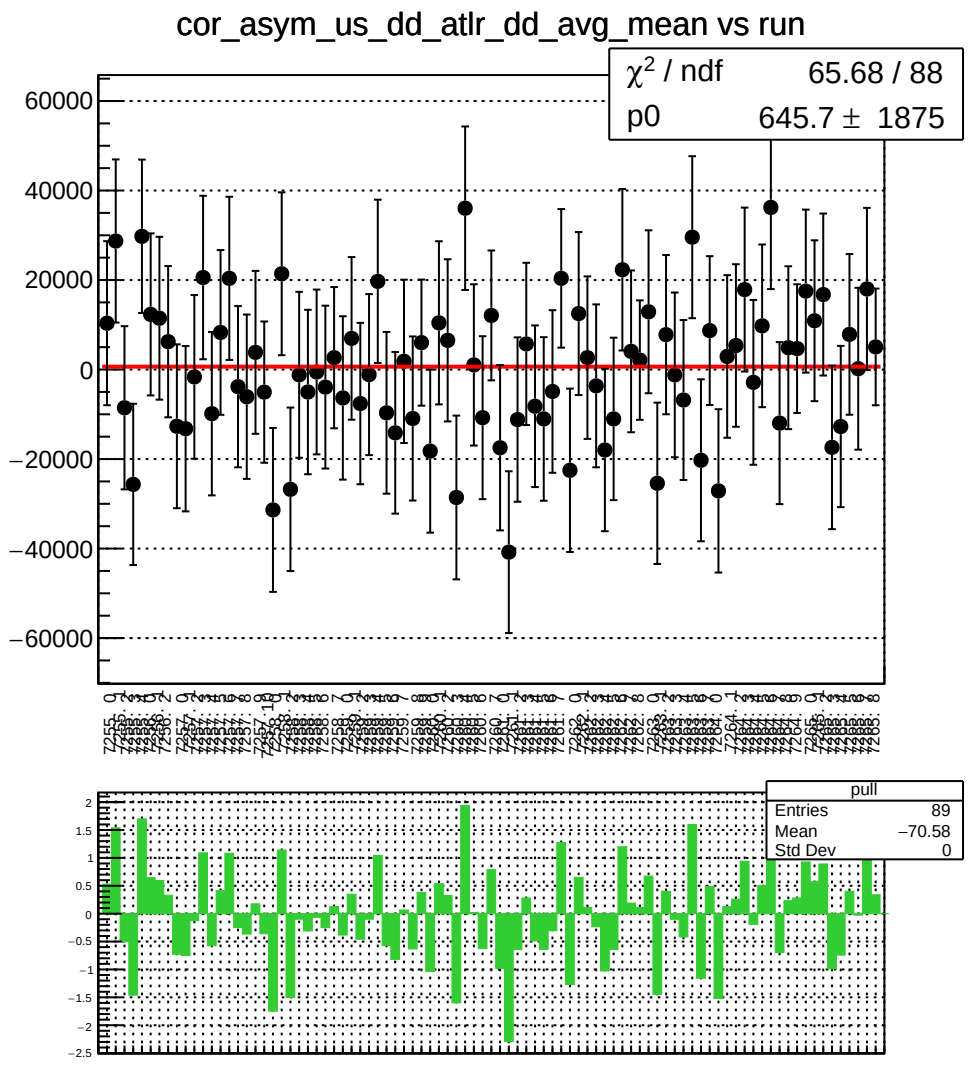

pull1D
Entries 89
Mean −0.0106
Std Dev 0.859

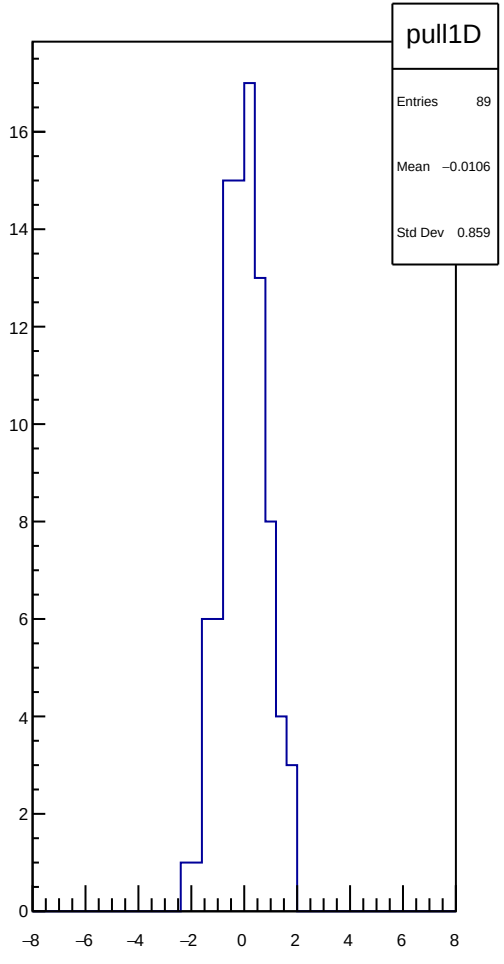

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 93.81 / 88
p0 1726 ± 1.326
1780
1760
1740
1720
1700
1680

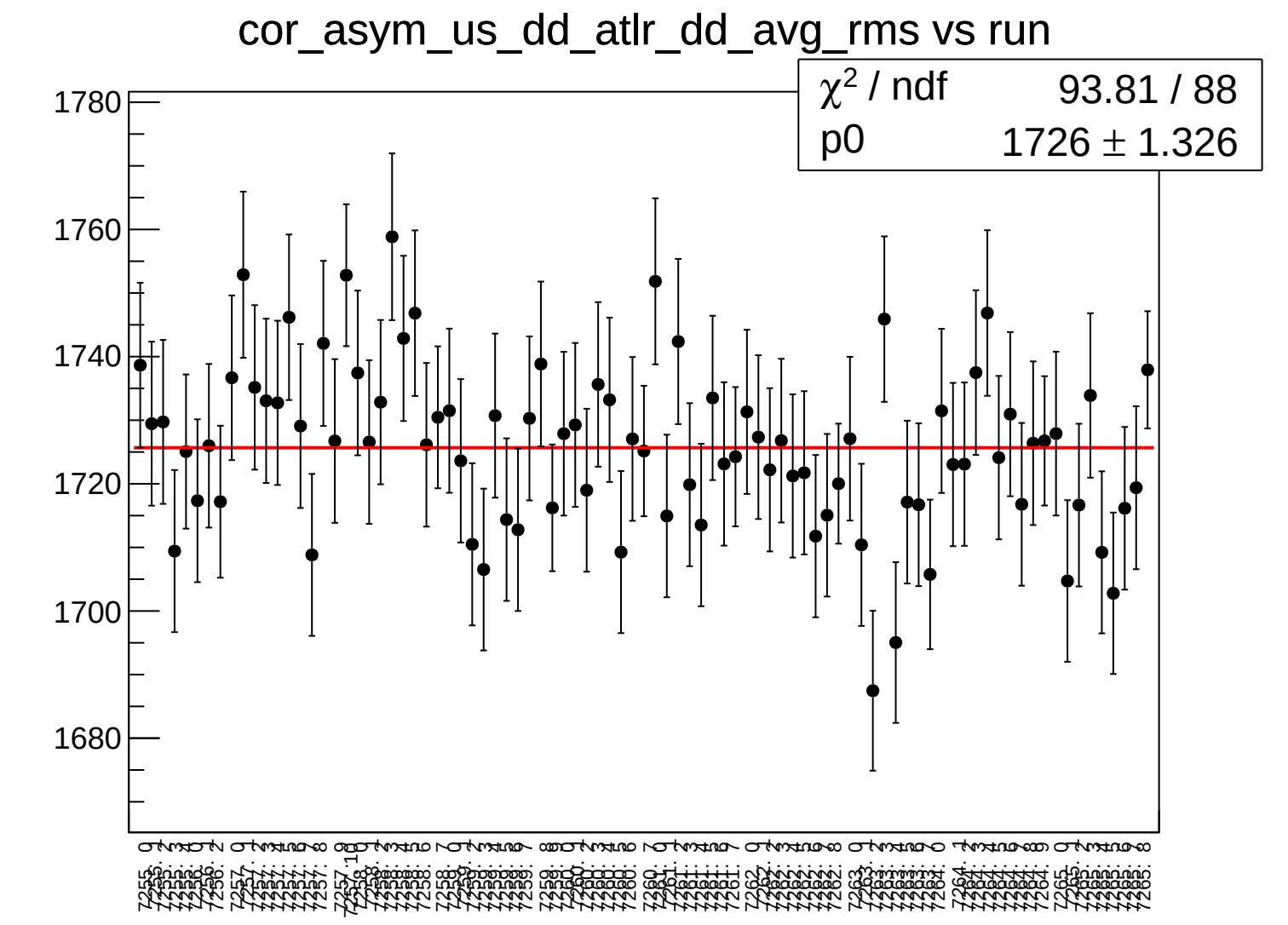

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 92.25 / 88
p0 −961.2 ± 632.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −674.1
Std Dev 0
3
2
1
0
−1
−2

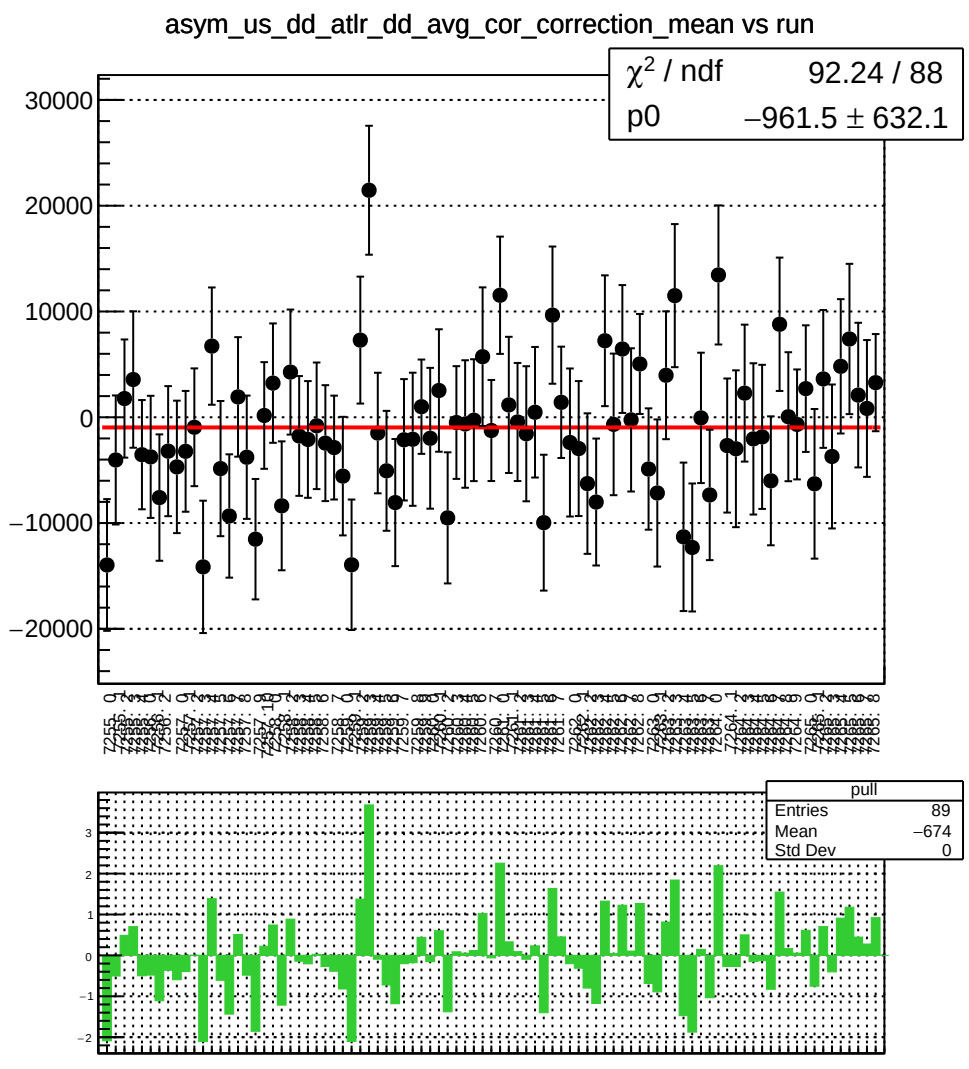

pull1D
Entries 89
Mean −0.008535
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

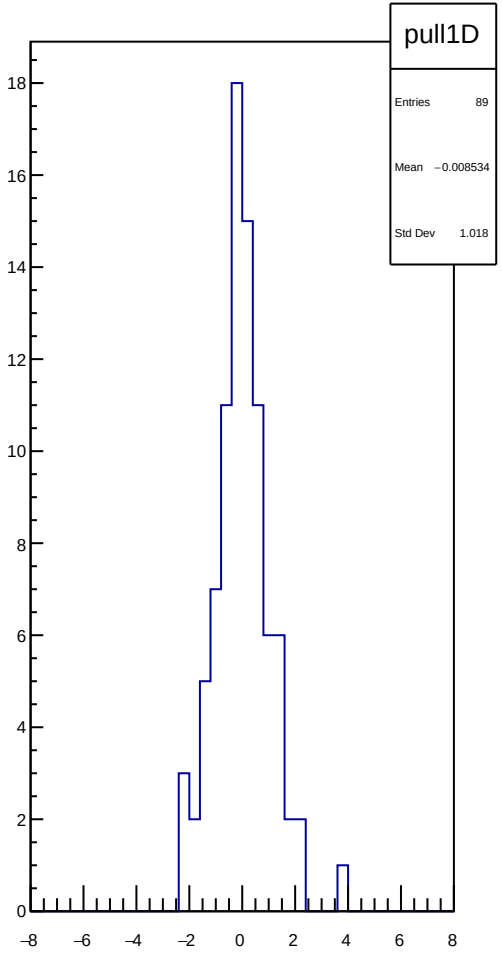

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 8798 / 88
p0 580.4 ± 0.447
700
650
600
550
500

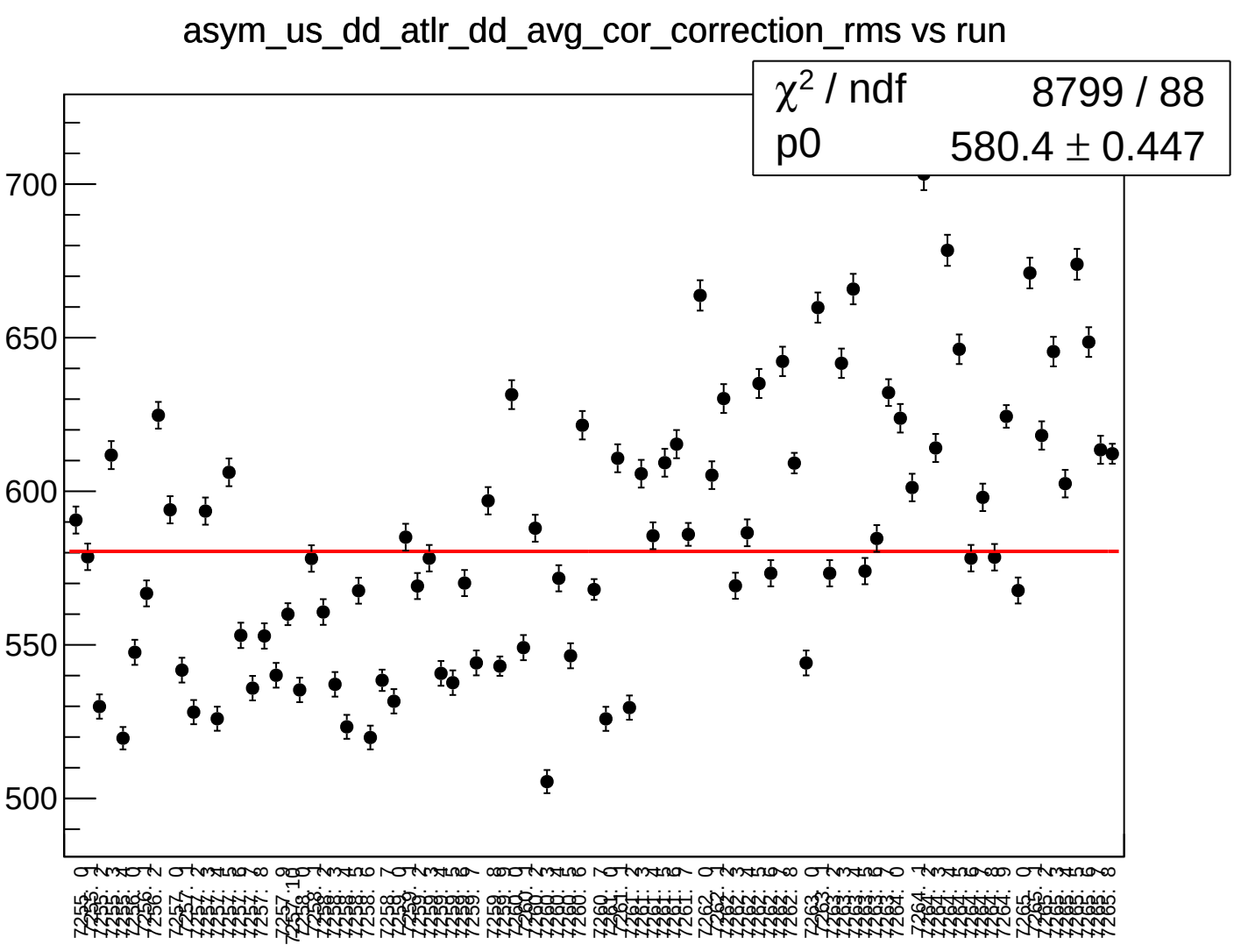

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 65.68 / 88
p0 645.7 ± 1875
pull
Entries 89
Mean −70.58
Std Dev 0

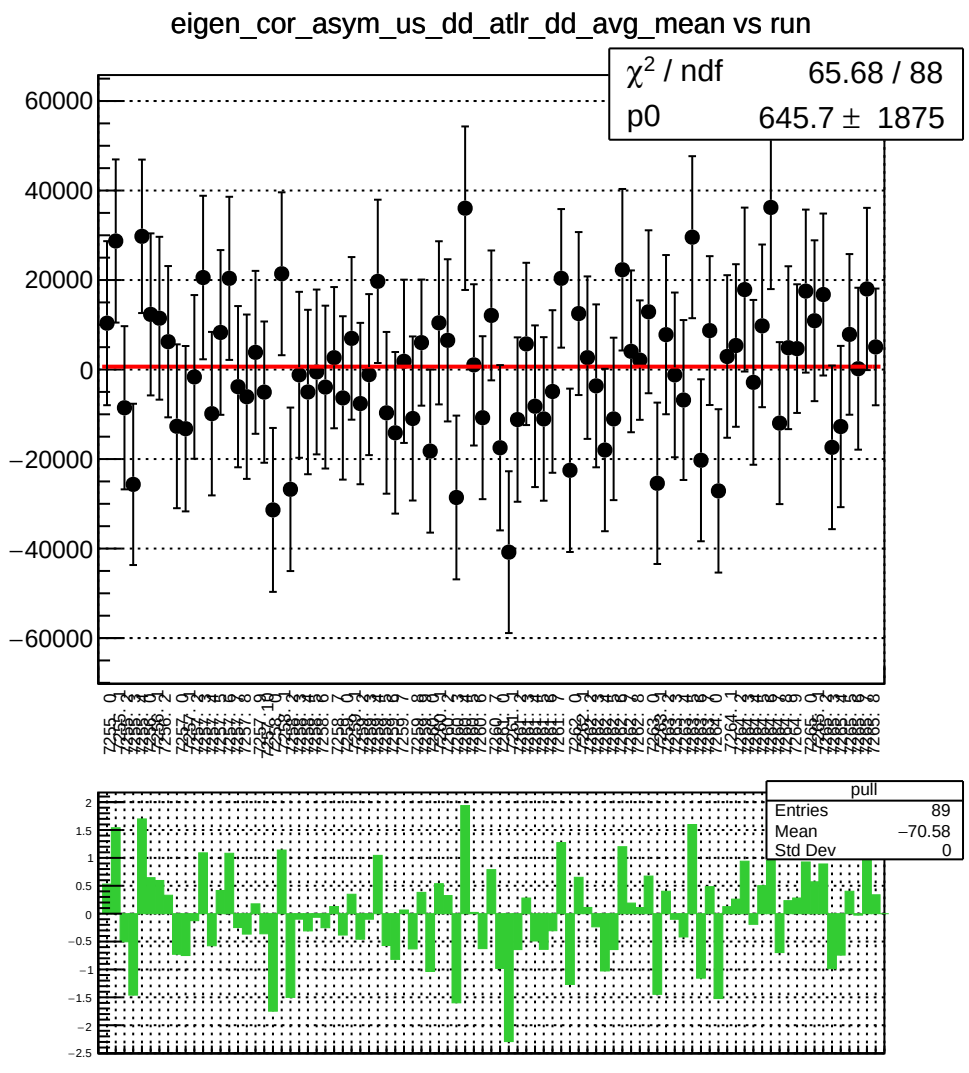

pull1D
Entries 89
Mean −0.0106
Std Dev 0.859

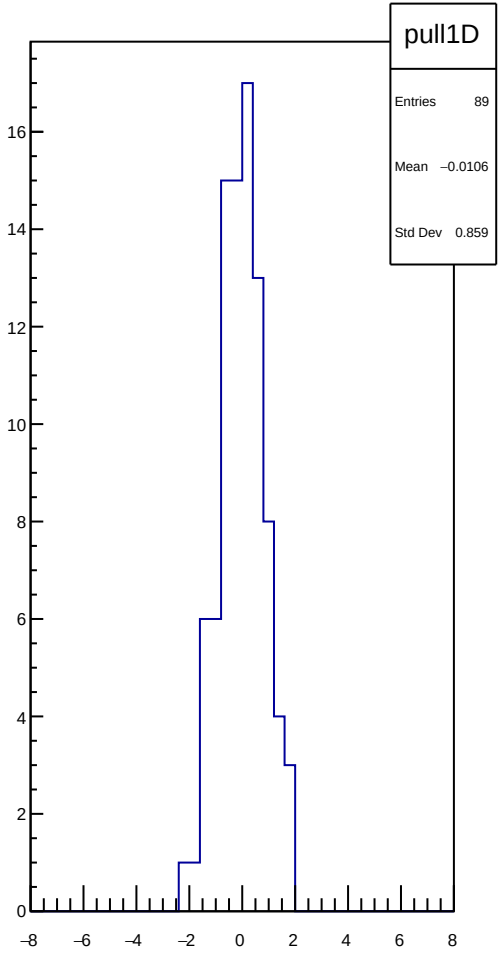

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 93.81 / 88
p0 1726 ± 1.326
1780
1760
1740
1720
1700
1680

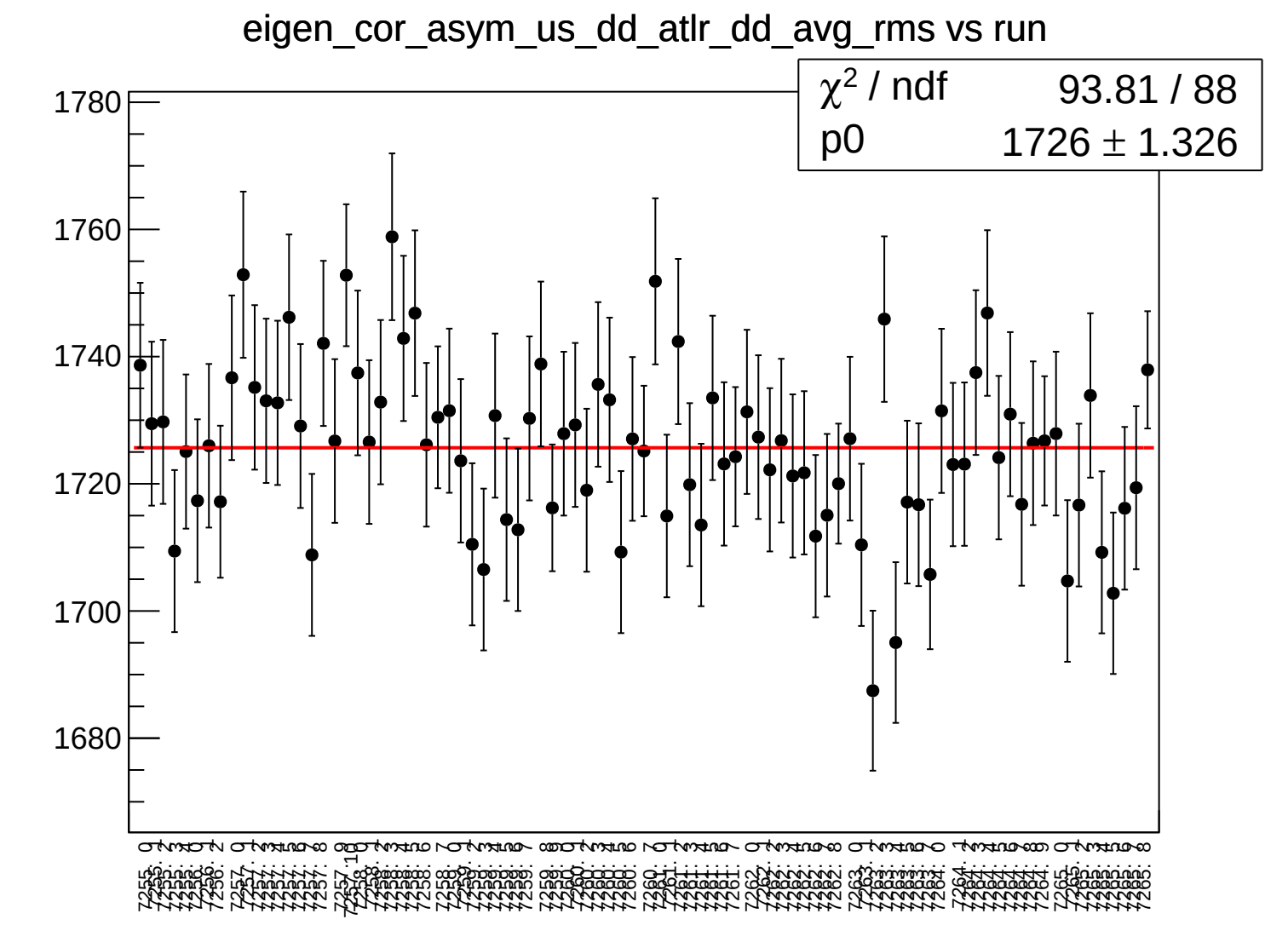

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 92.24 / 88
p0 −961.5 ± 632.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −674
Std Dev 0
3
2
1
0
−1
−2

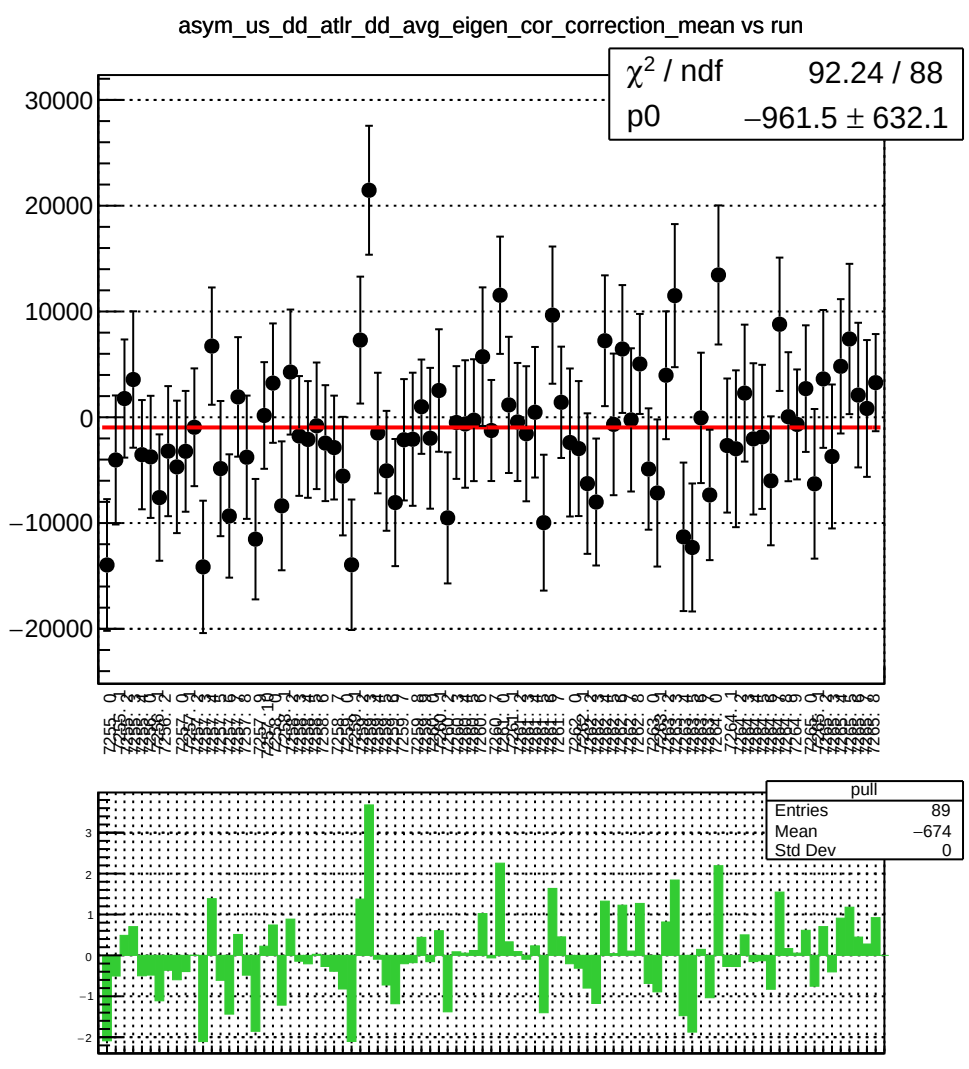

pull1D
Entries 89
Mean −0.008534
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

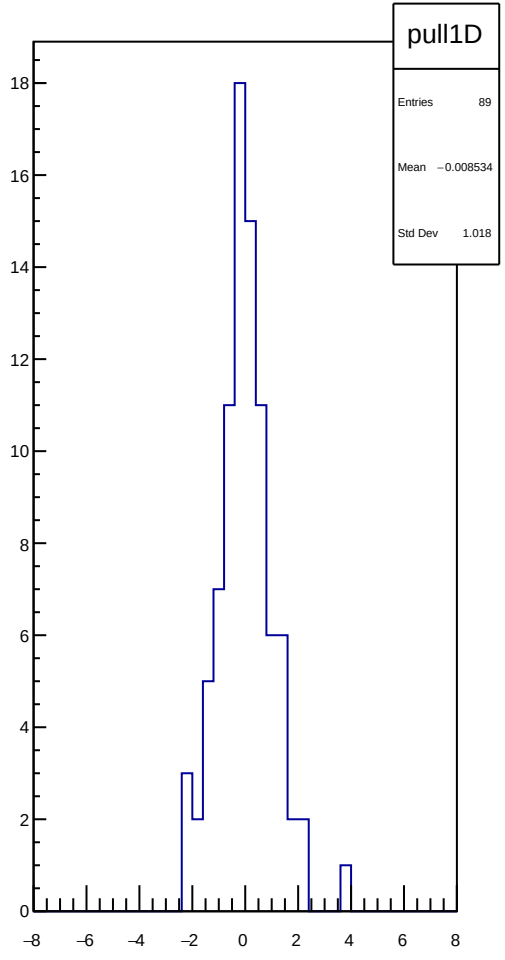

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 8799 / 88
p0 580.4 ± 0.447
700
650
600
550
500

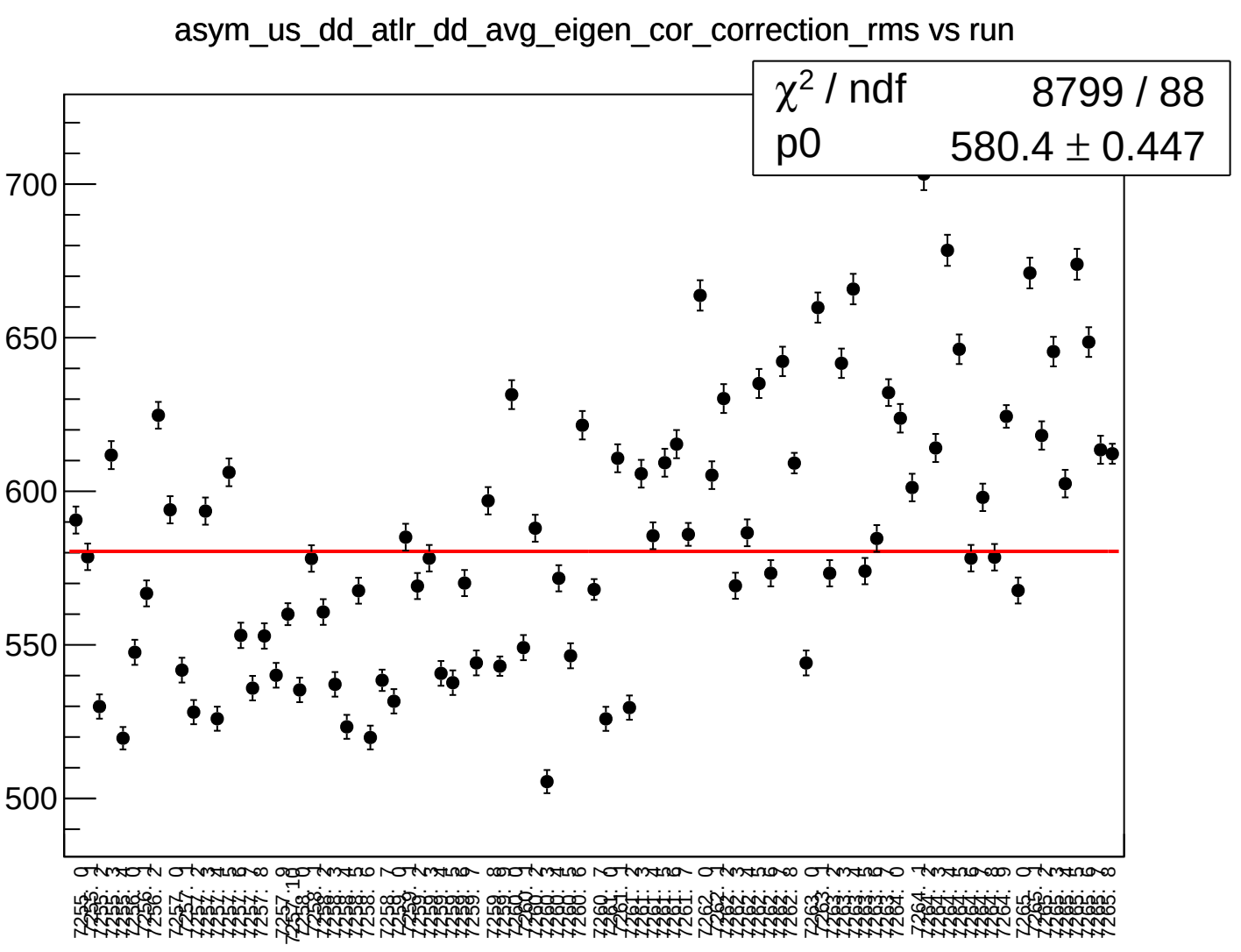

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 65.68 / 88
p0 645.7 ± 1875
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −70.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

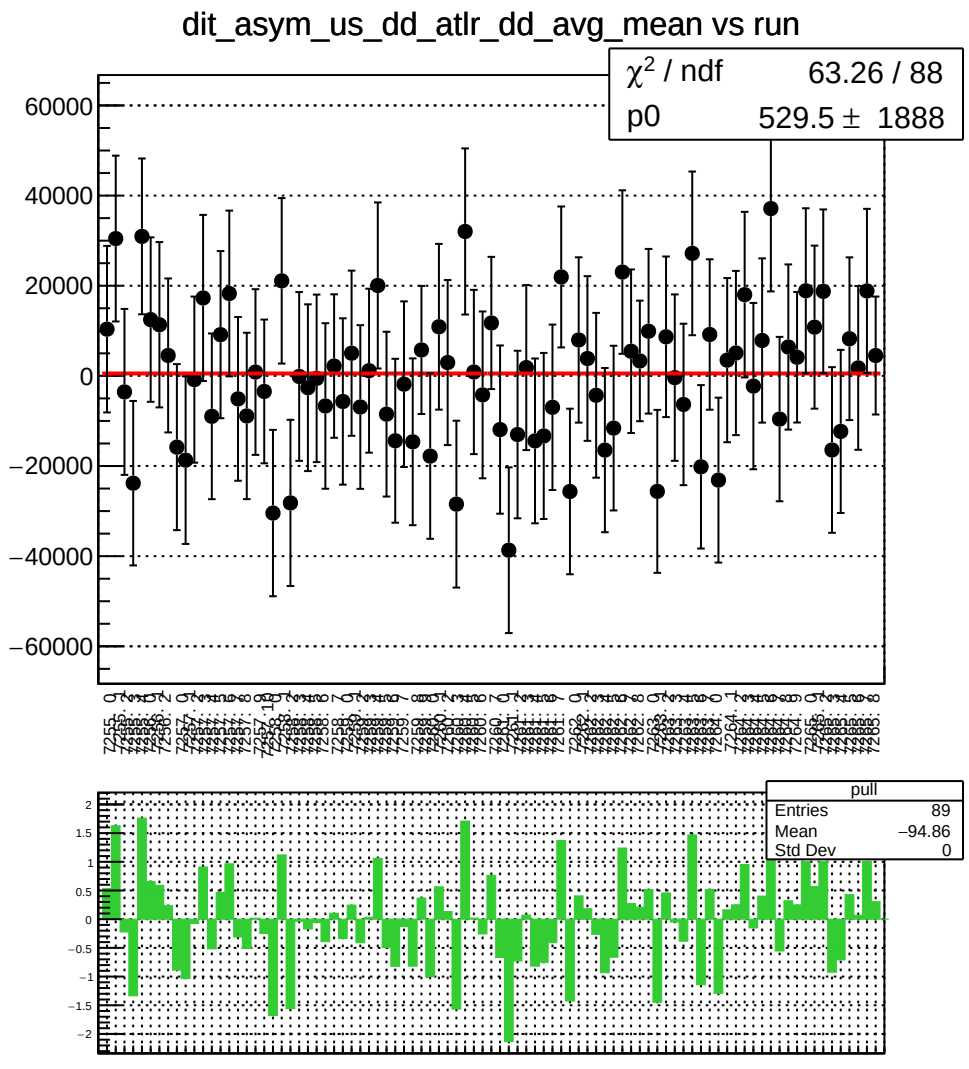

pull1D
Entries 89
Mean −0.0106
Std Dev 0.859
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

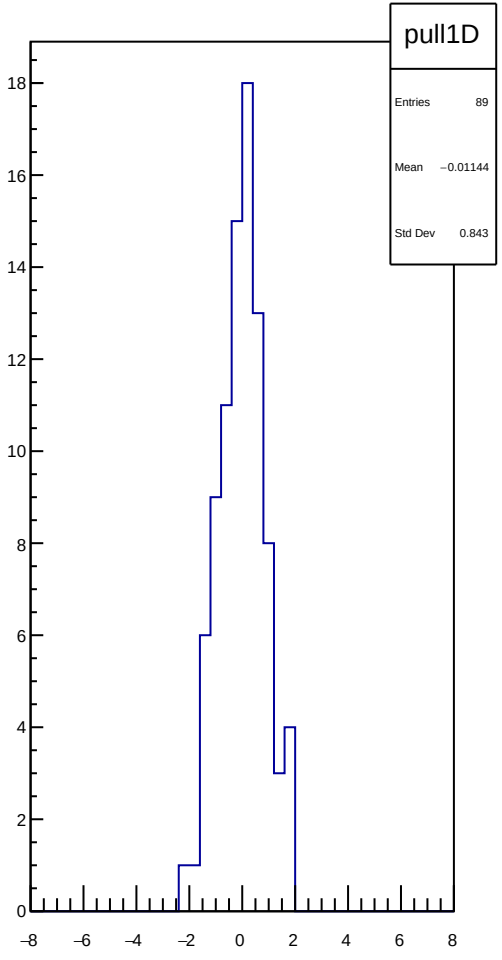

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 93.81 / 88
p0 1726 ± 1.326
1780
1760
1740
1720
1700
1680

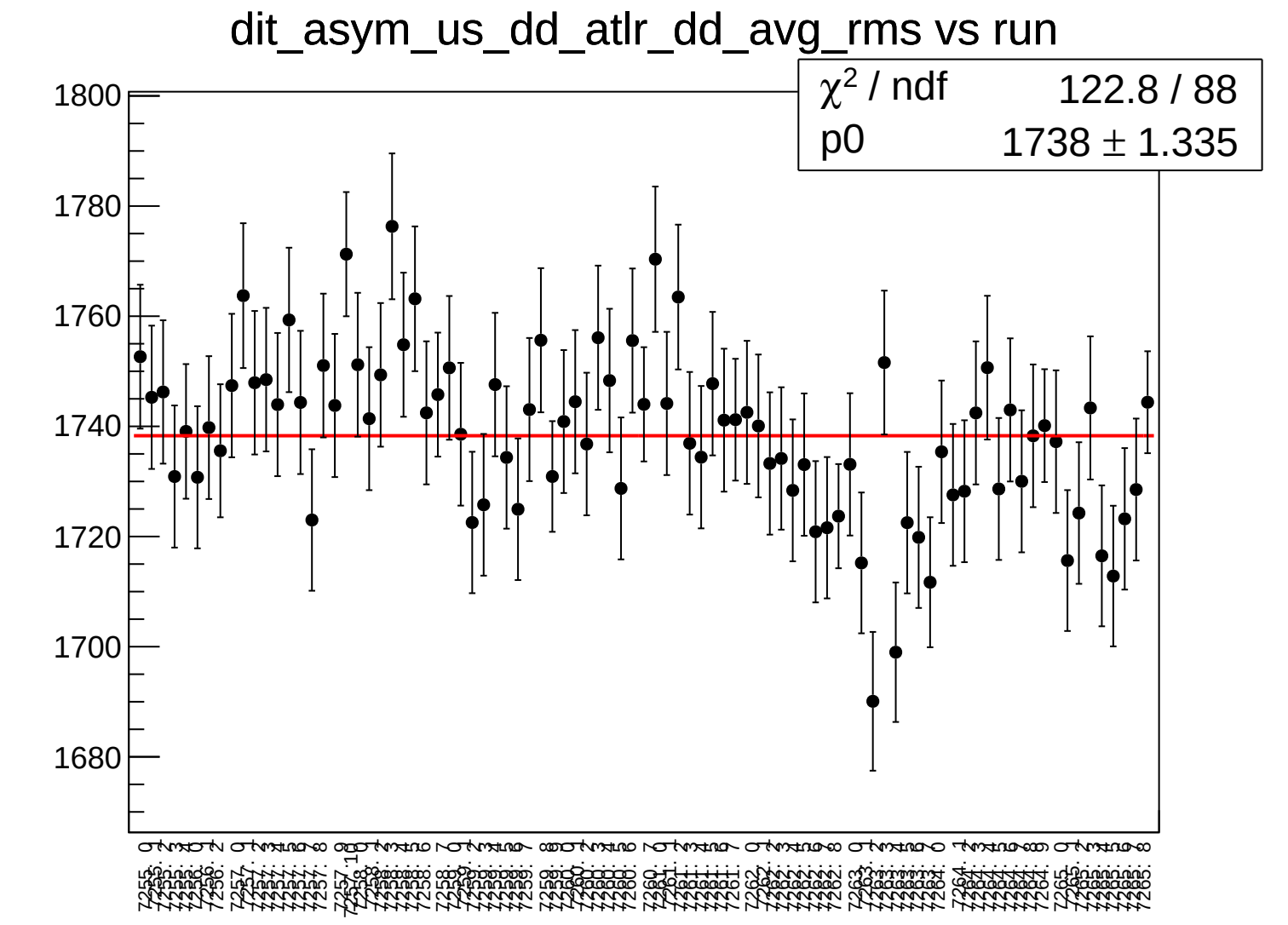

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.24 / 88
p0 −961.5 ± 632.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −674
Std Dev 0
3
2
1
0
−1
−2

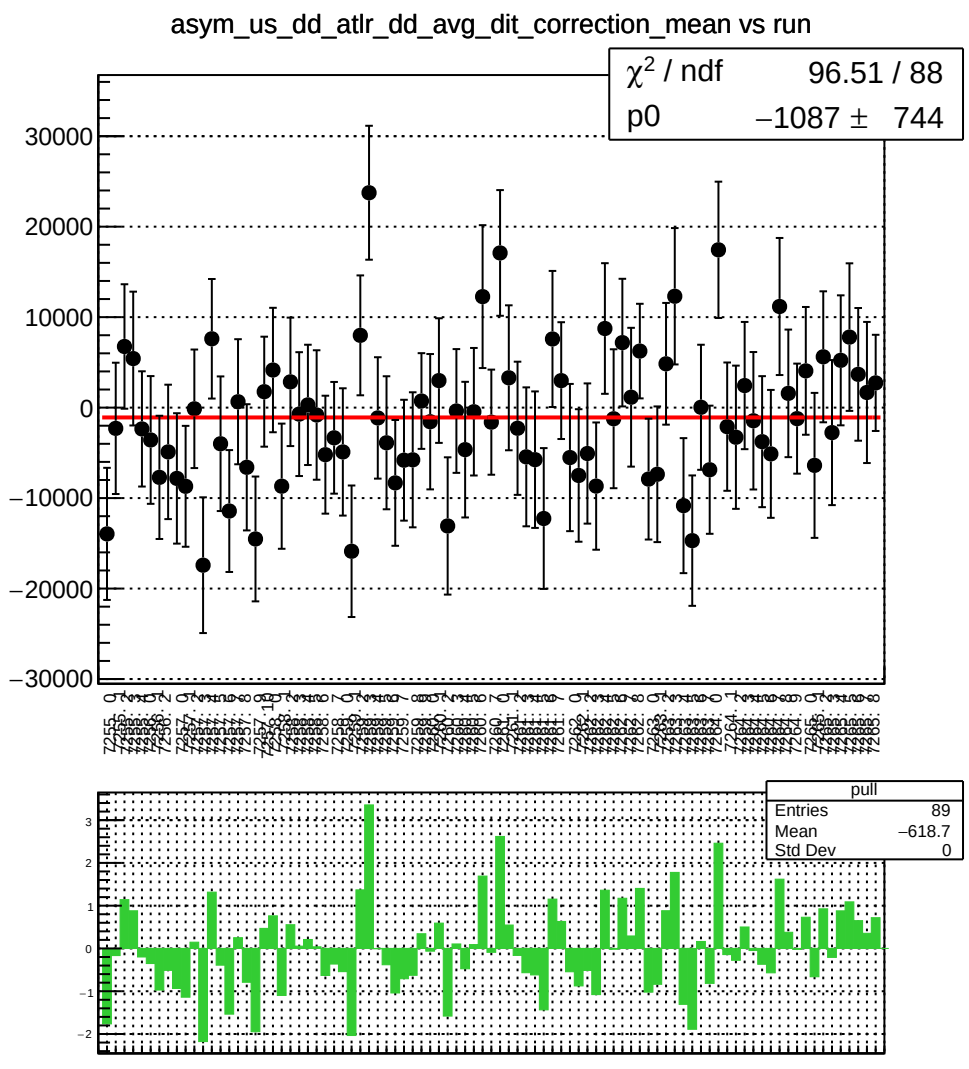

pull1D
Entries 89
Mean −0.008534
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

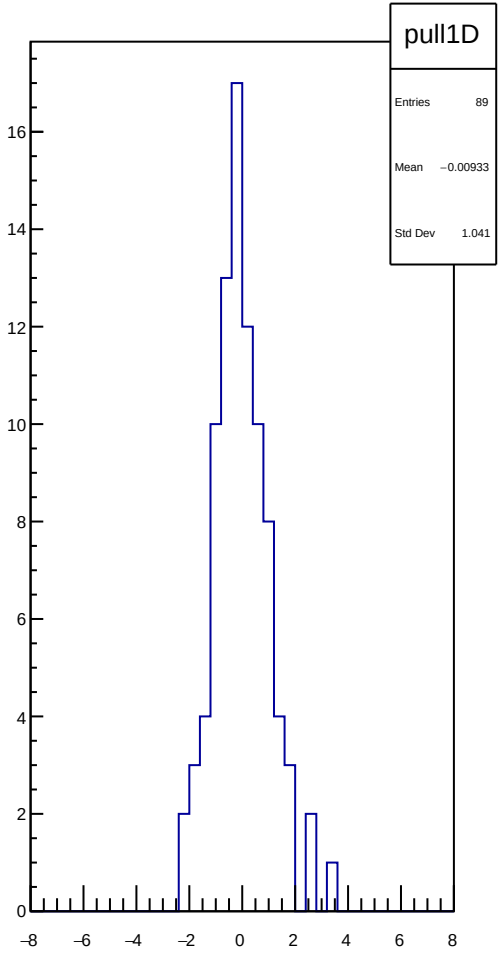

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8799 / 88
p0 580.4 ± 0.447
700
650
600
550
500

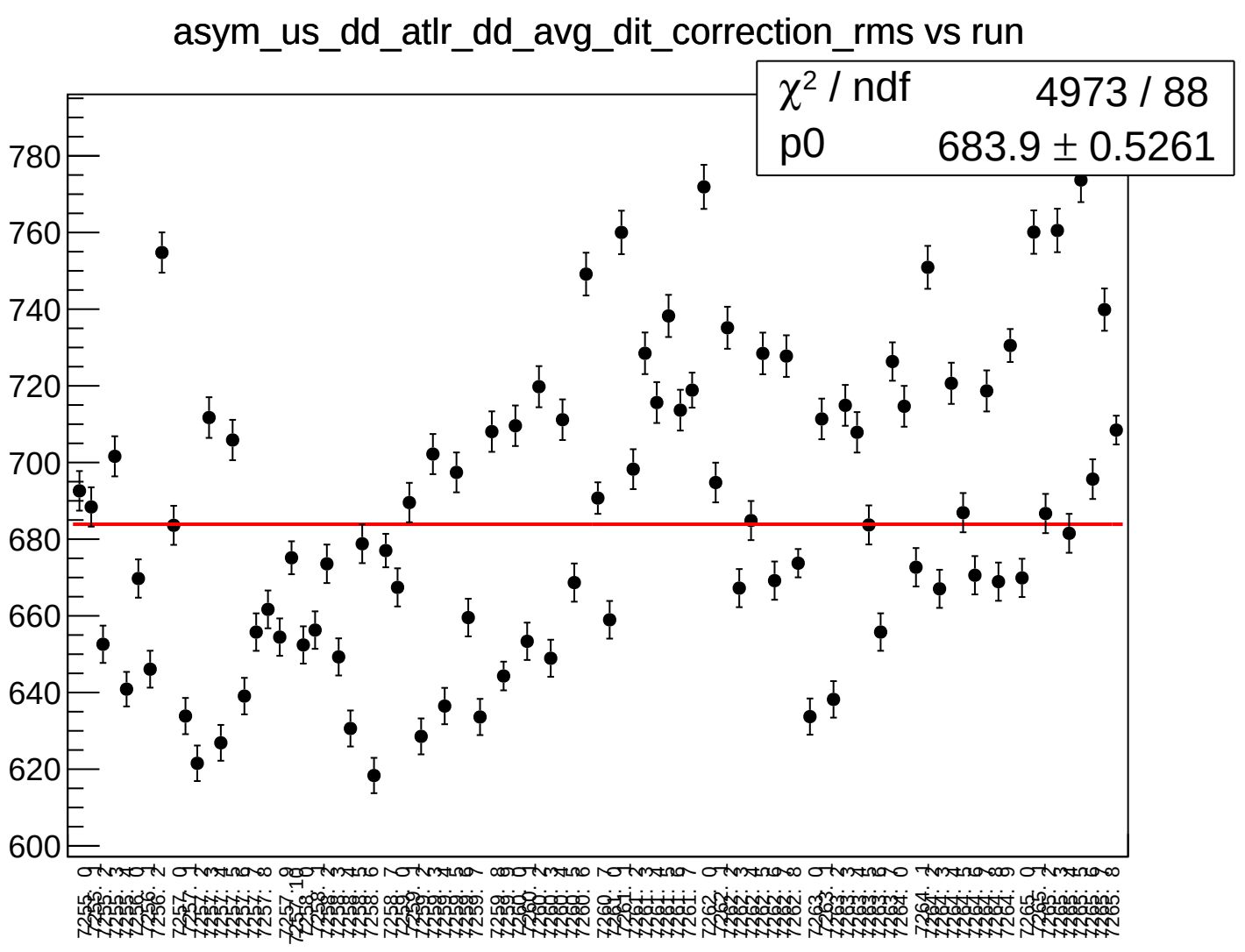

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 63.26 / 88
p0 529.5 ± 1888
pull
Entries 89
Mean −94.86
Std Dev 0

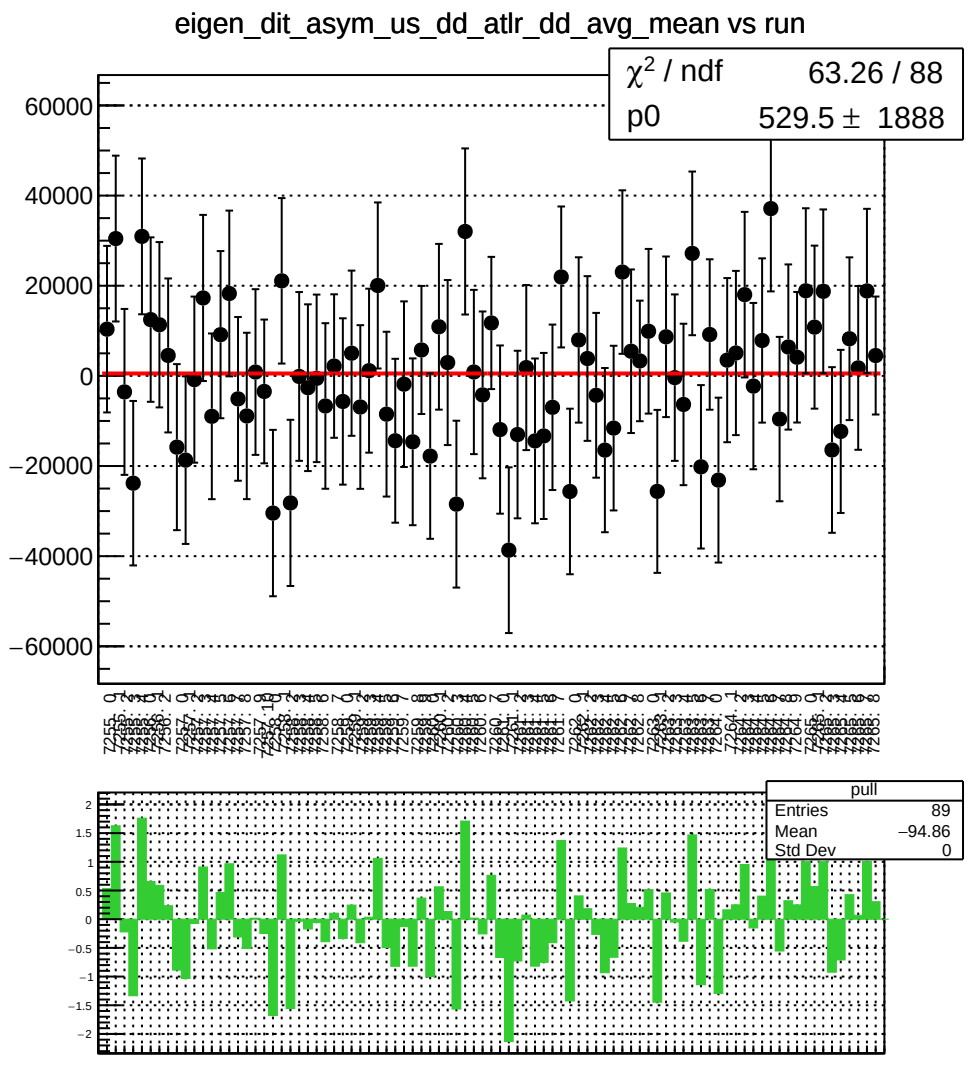

pull1D
Entries 89
Mean −0.01144
Std Dev 0.843

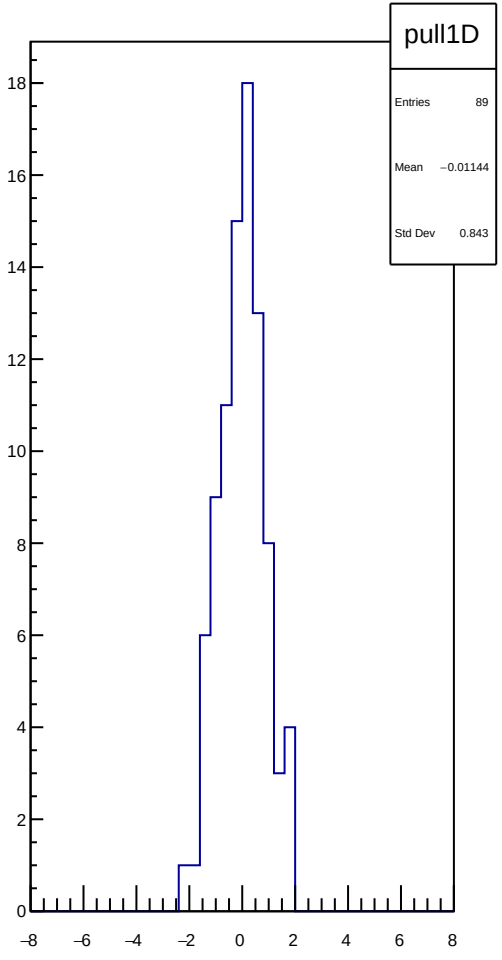

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 122.8 / 88
p0 1738 ± 1.335
1800
1780
1760
1740
1720
1700
1680

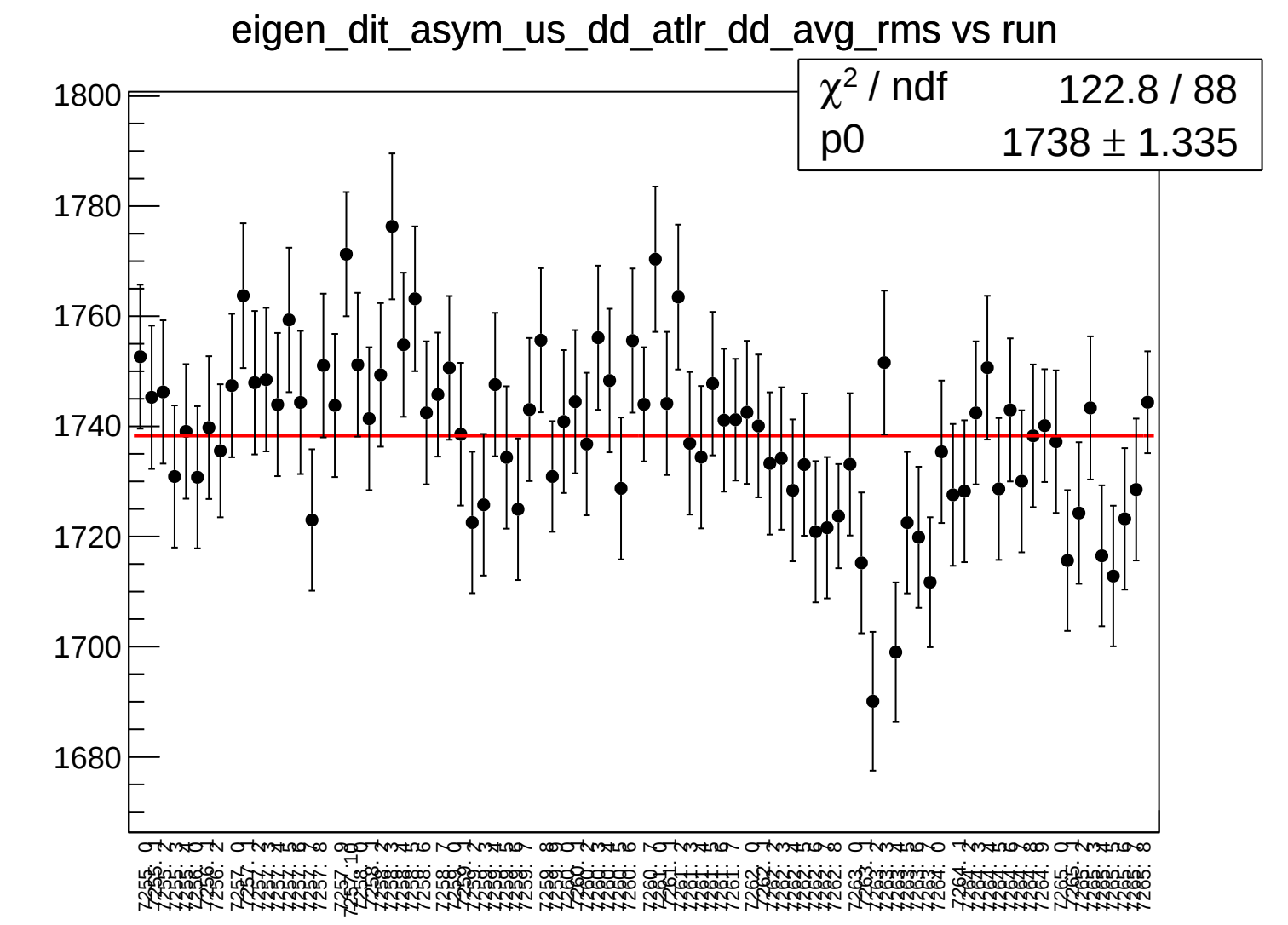

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 96.51 / 88
p0 −1087 ± 744
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −618.7
Std Dev 0
3
2
1
0
−1
−2

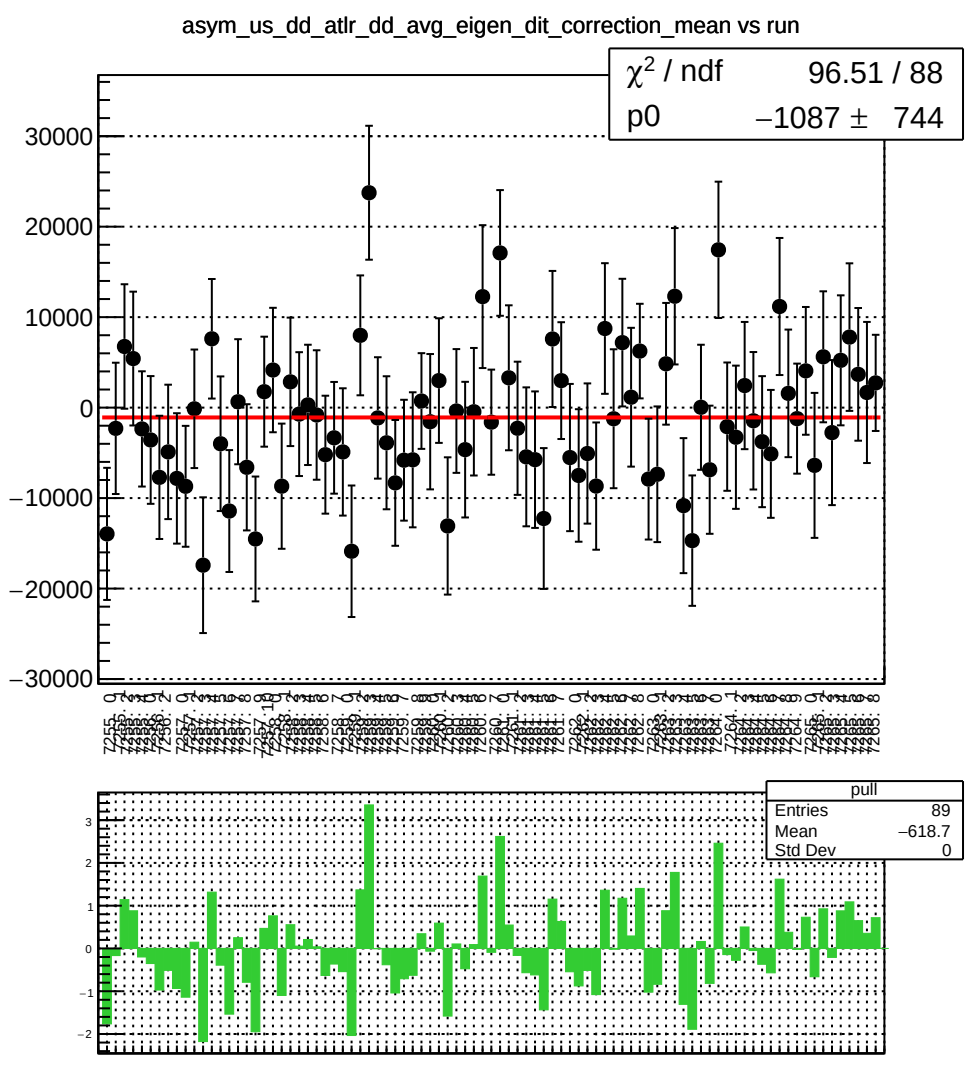

pull1D
Entries 89
Mean −0.00933
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

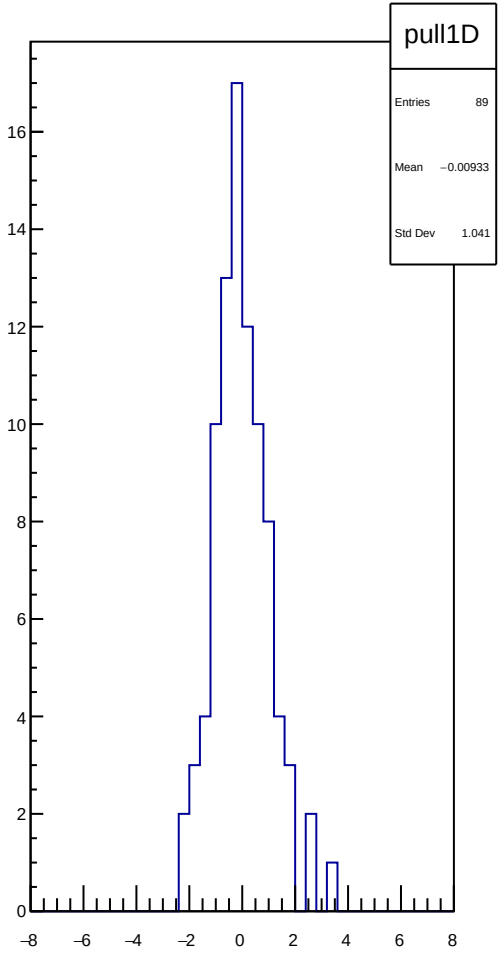

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 4973 / 88
p0 683.9 ± 0.5261
780
760
740
720
700
680
660
640
620
600

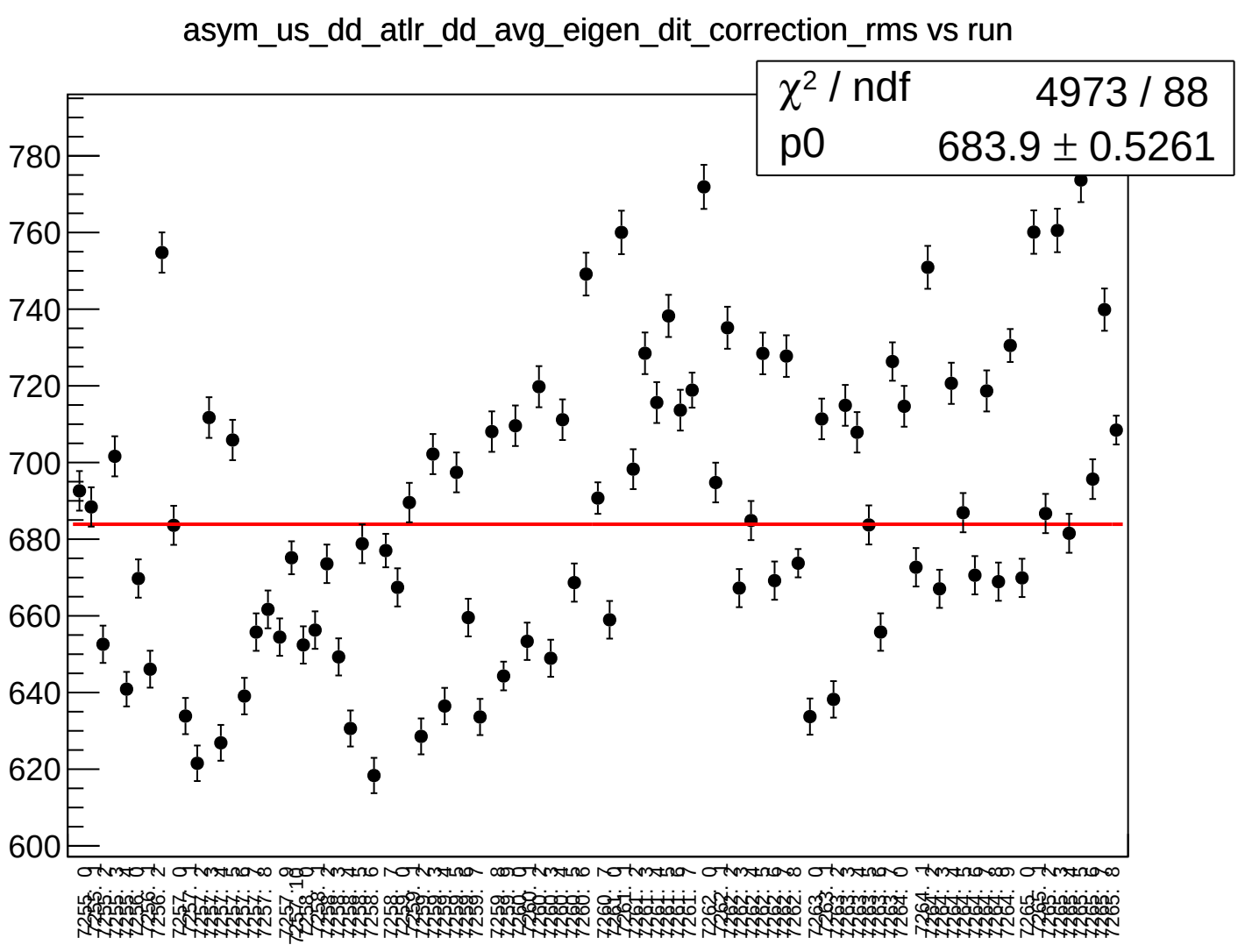

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 63.26 / 88
p0 529.5 ± 1888
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −94.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

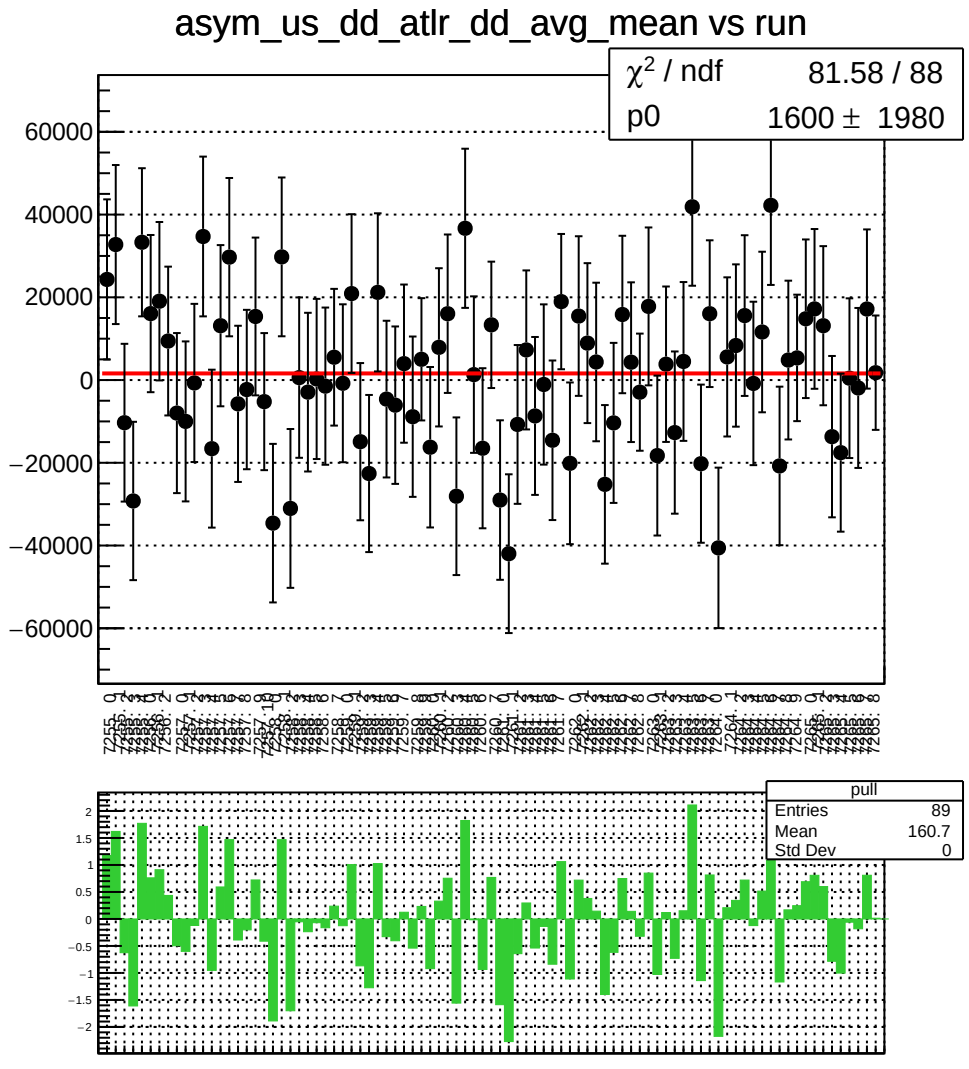

pull1D
Entries 89
Mean −0.01144
Std Dev 0.843
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

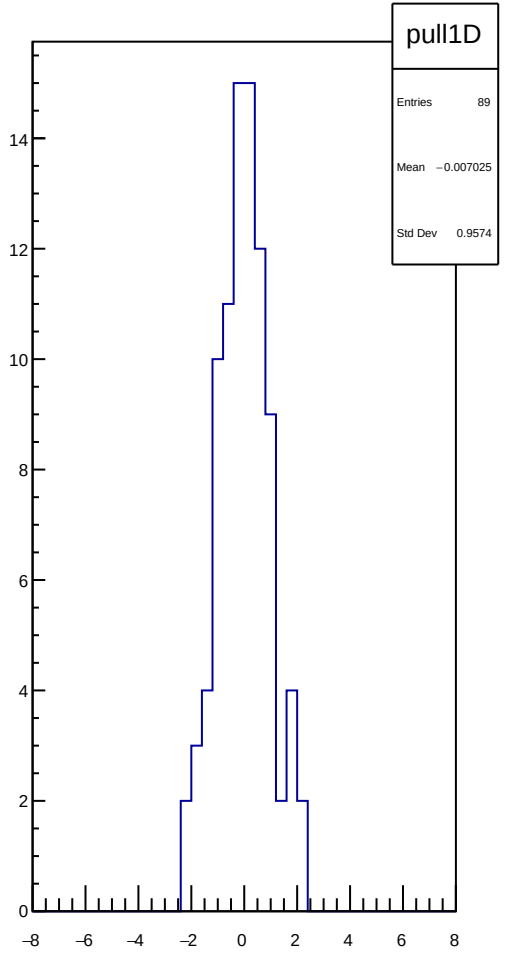

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 122.8 / 88
p0 1738 ± 1.335
1800
1780
1760
1740
1720
1700
1680

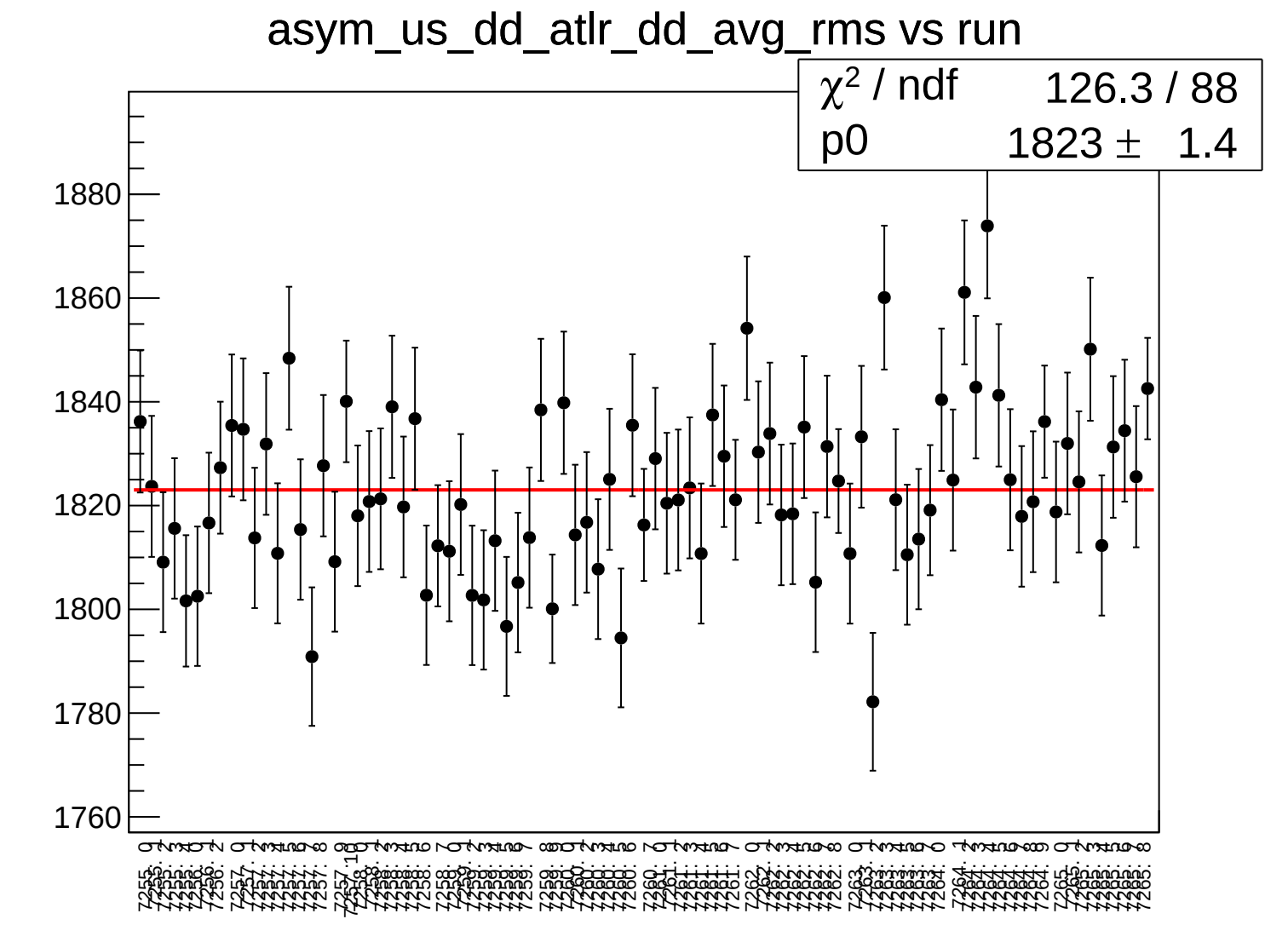

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.51 / 88
p0 −1087 ± 744
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −618.7
Std Dev 0
3
2
1
0
−1
−2

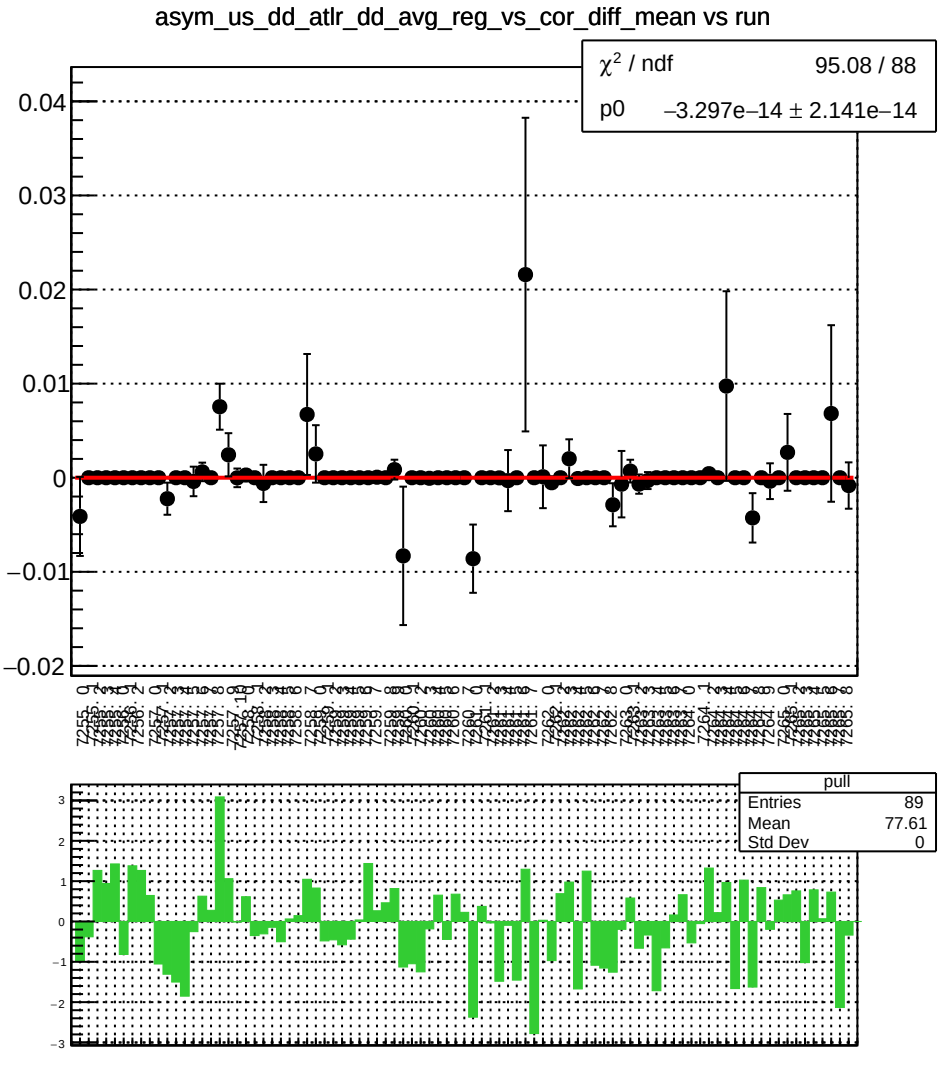

pull1D
Entries 89
Mean −0.00933
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

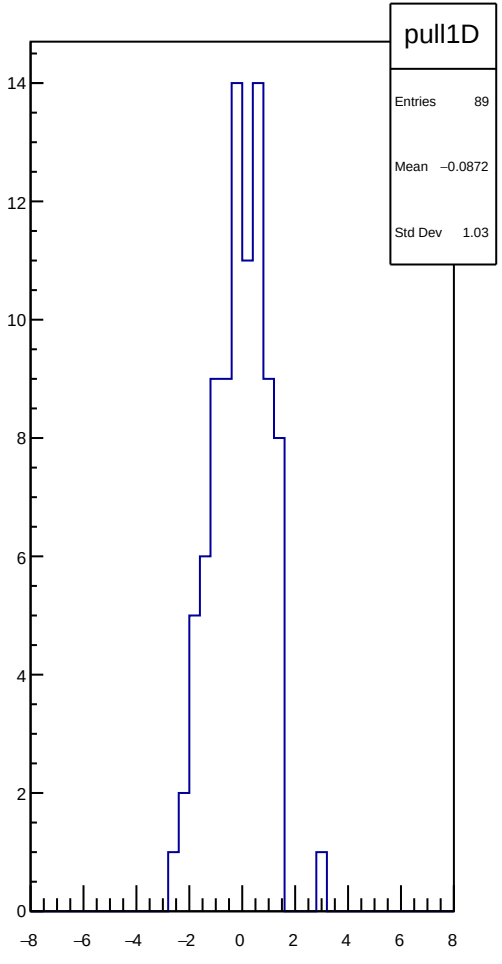

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4973 / 88
p0 683.9 ± 0.5261
780
760
740
720
700
680
660
640
620
600

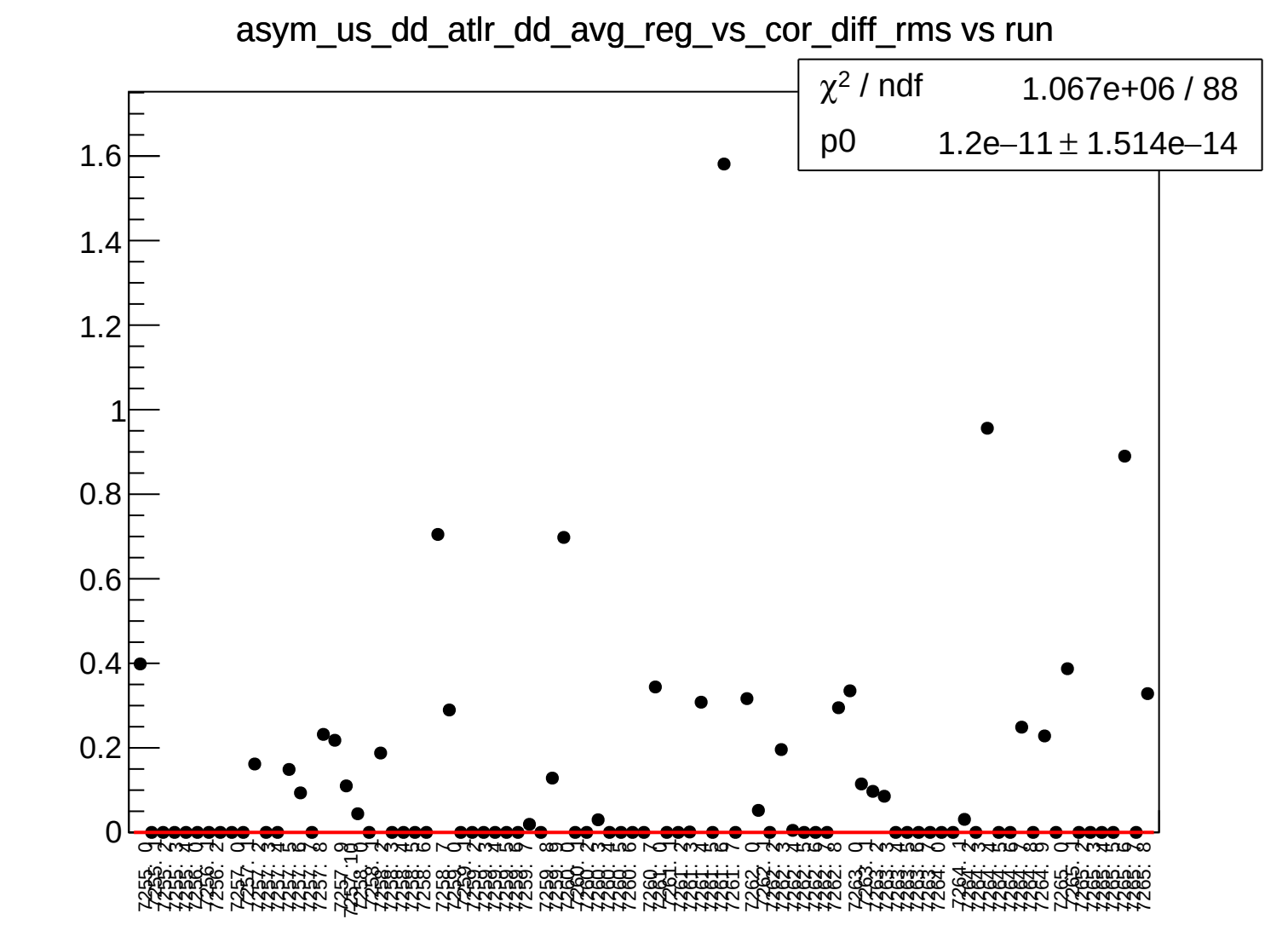

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 81.58 / 88
p0 1600 ± 1980
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 160.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

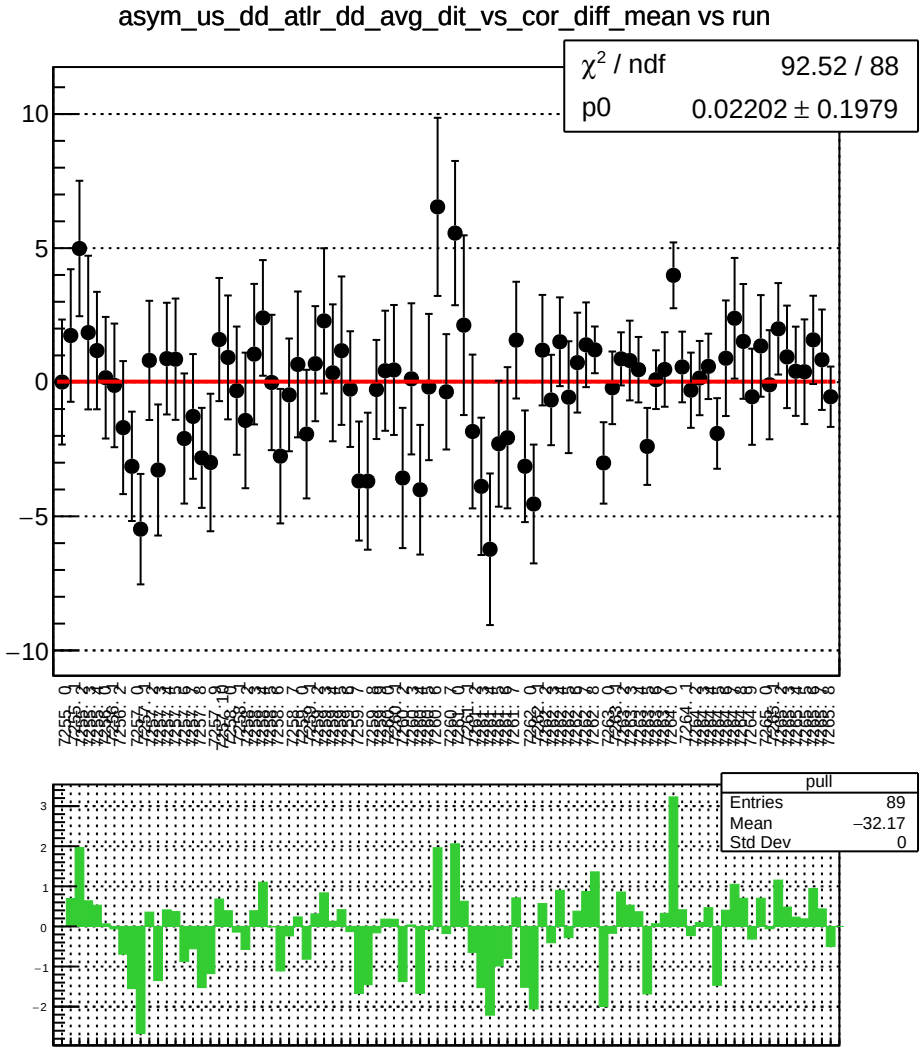

pull1D
Entries 89
Mean −0.007025
Std Dev 0.9574
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

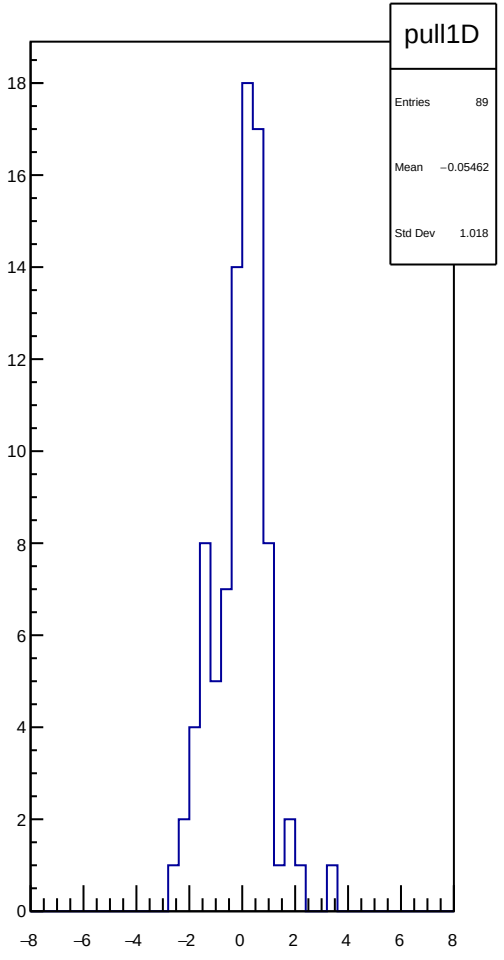

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 126.3 / 88
p0 1823 ± 1.4
1880
1860
1840
1820
1800
1780
1760

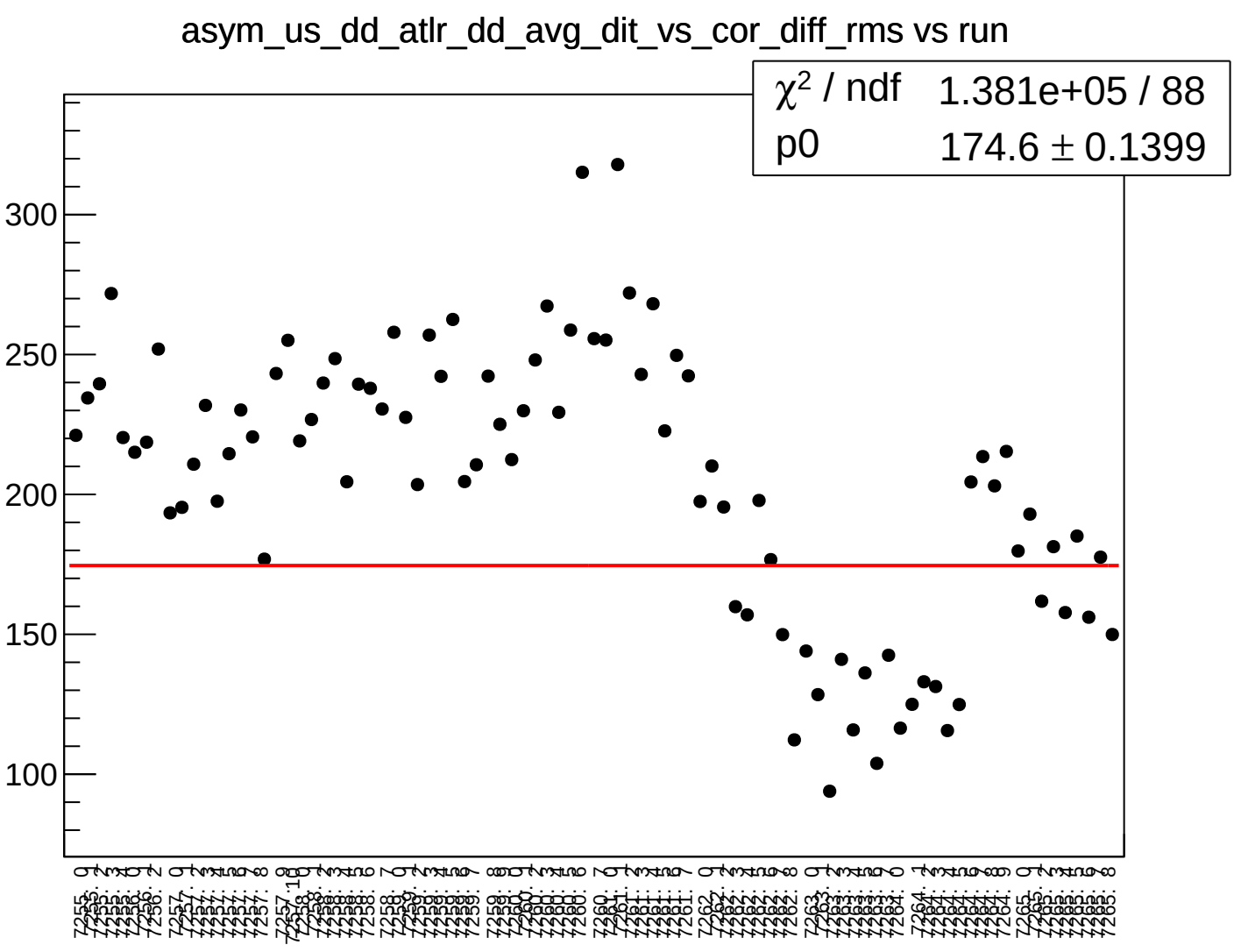

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.08 / 88
p0 −3.297e−14 ± 2.141e−14
pull
Entries 89
Mean 77.61
Std Dev 0

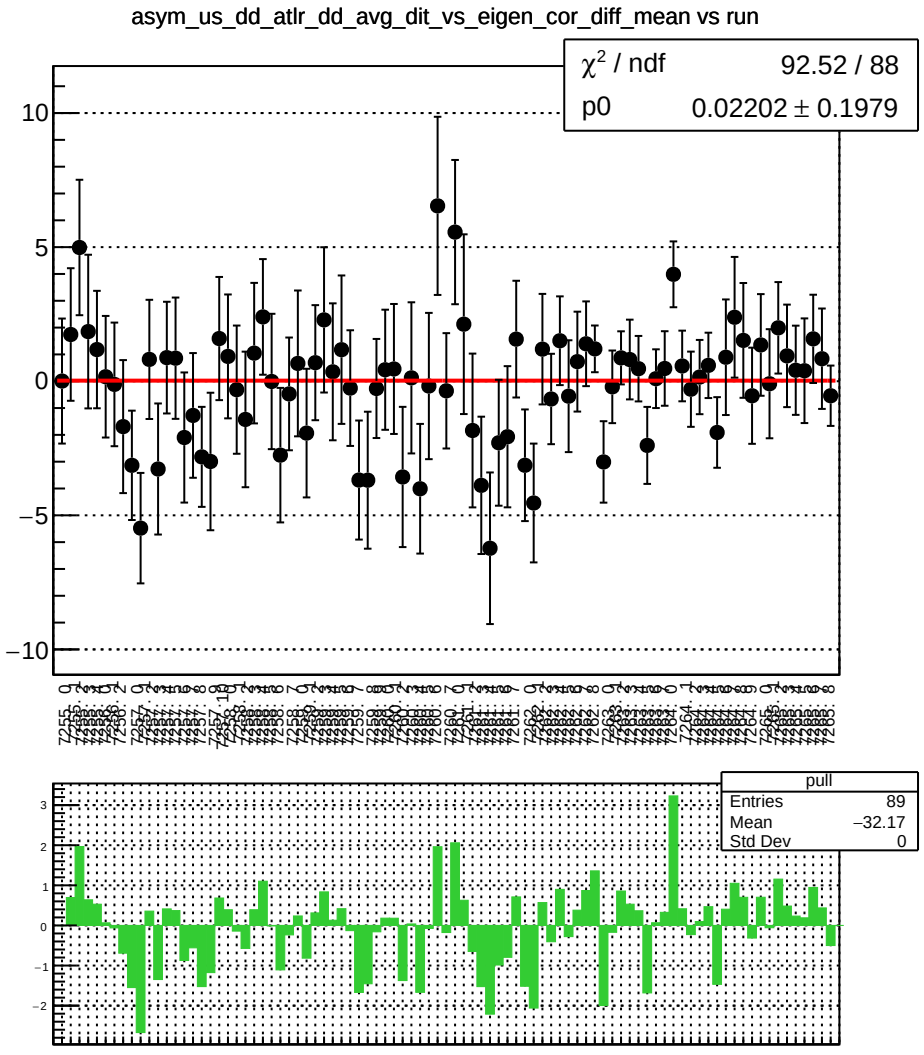

pull1D
Entries 89
Mean −0.0872
Std Dev 1.03

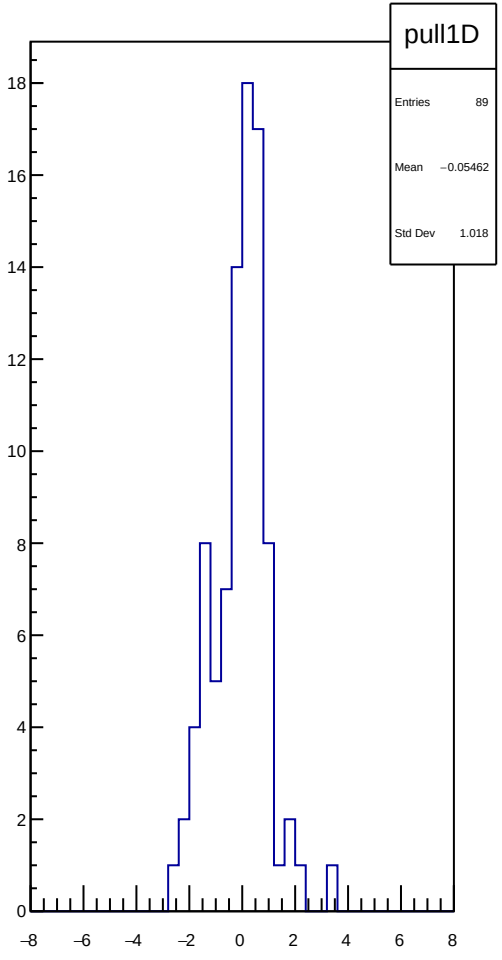

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.067e+06 / 88
p0 1.2e−11 ± 1.514e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

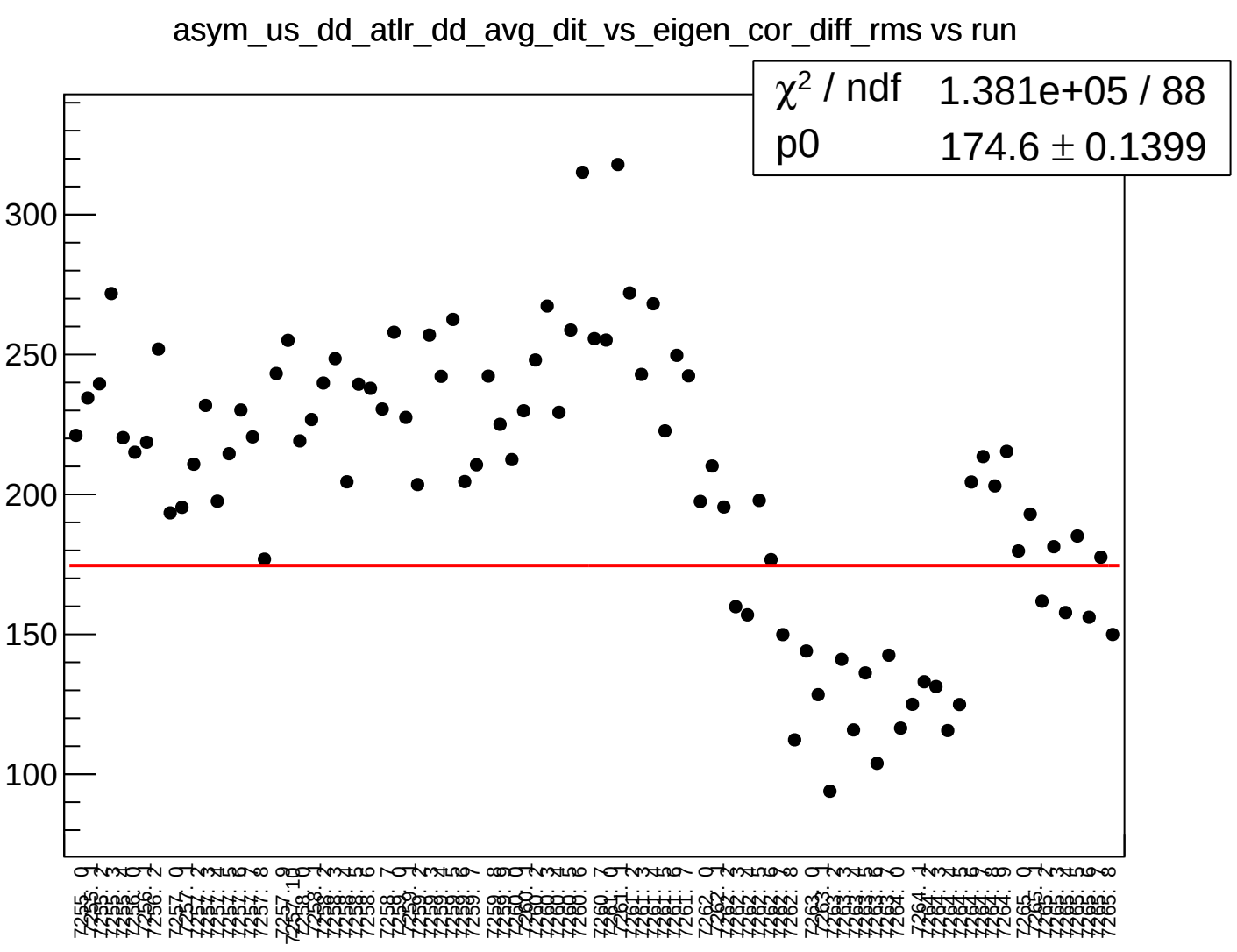

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.52 / 88
p0 0.02202 ± 0.1979
pull
Entries 89
Mean −32.17
Std Dev 0

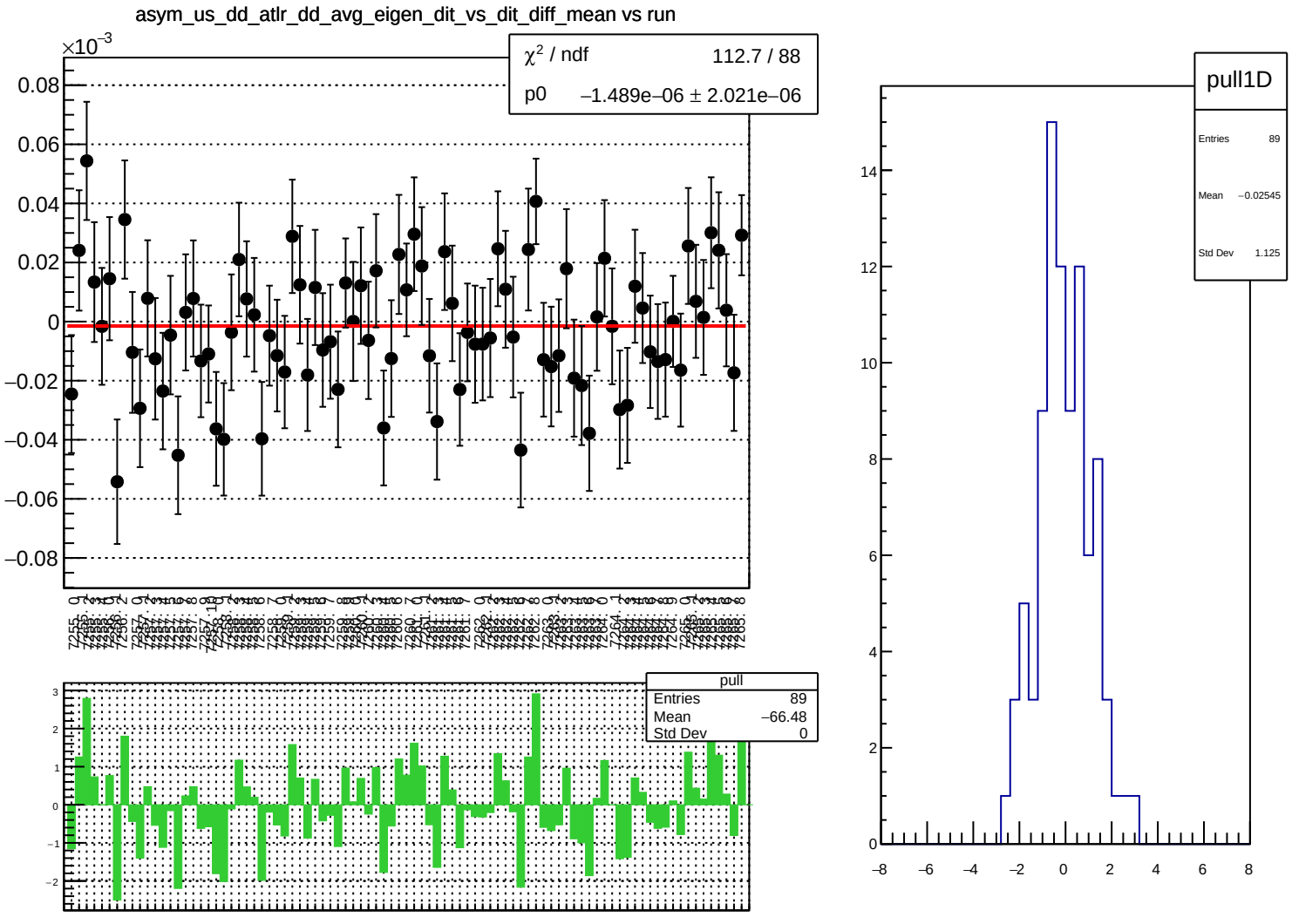

pull1D
Entries 89
Mean −0.05462
Std Dev 1.018

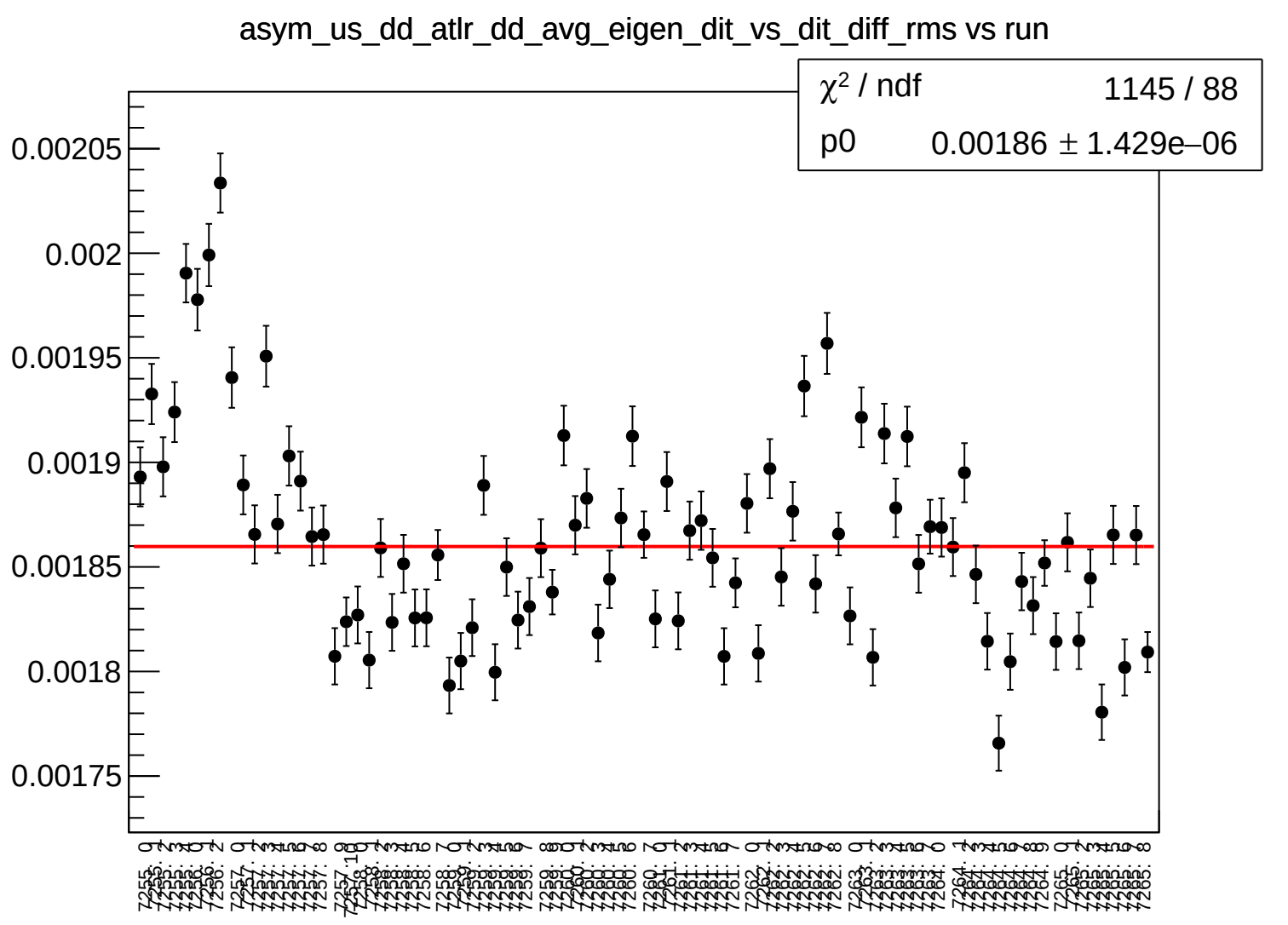

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.381e+05 / 88
p0 174.6 ± 0.1399
300
250
200
150
100

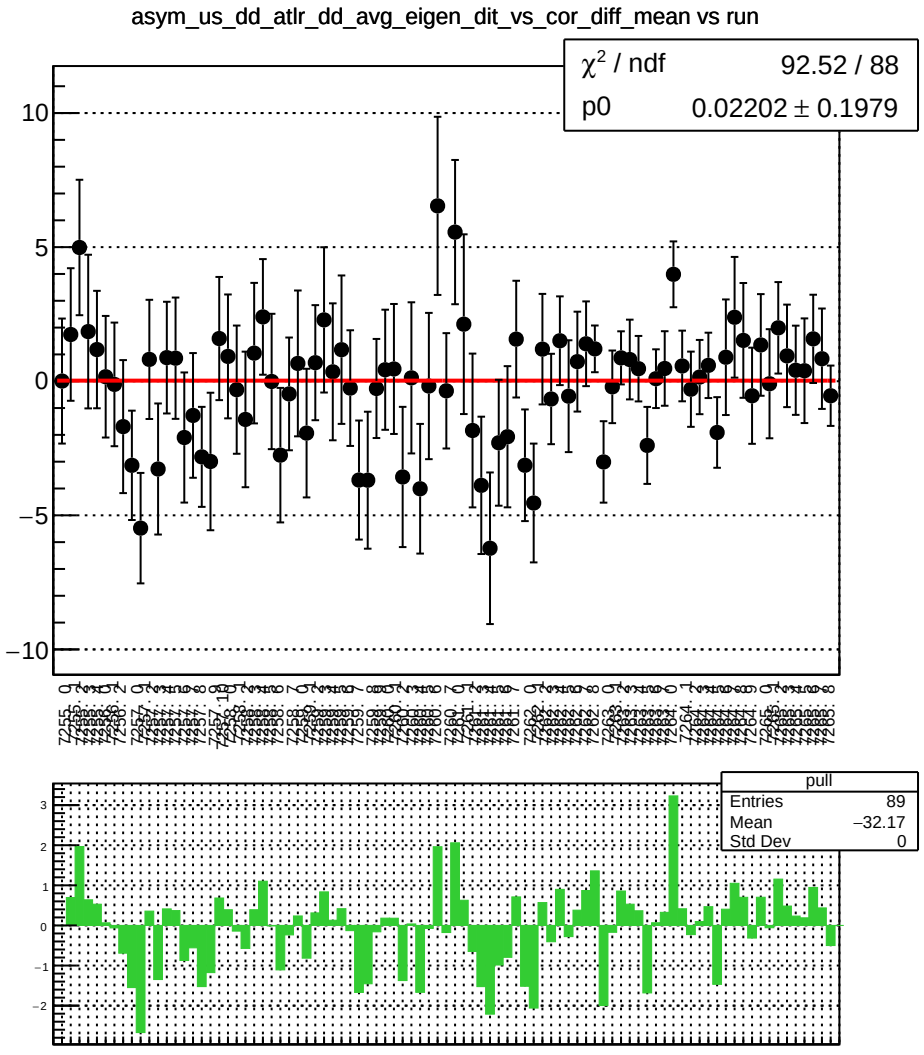

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.52 / 88
p0 0.02202 ± 0.1979
pull
Entries 89
Mean −32.17
Std Dev 0

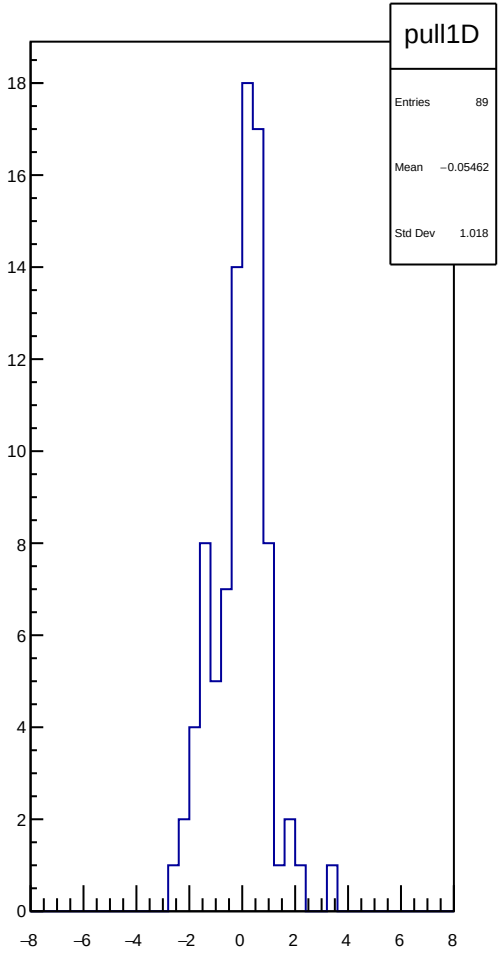

pull1D
Entries 89
Mean −0.05462
Std Dev 1.018

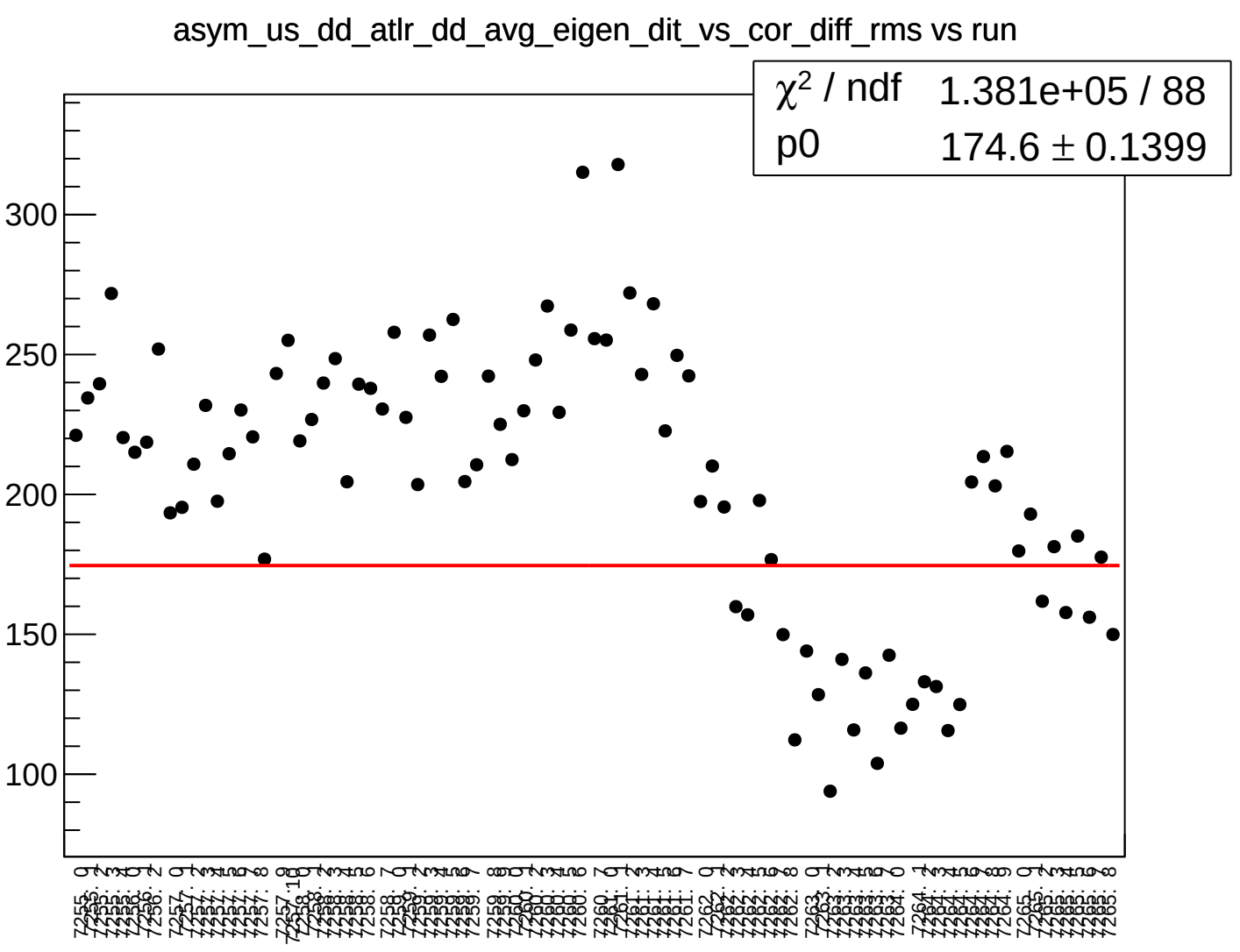

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.381e+05 / 88
p0 174.6 ± 0.1399
300
250
200
150
100

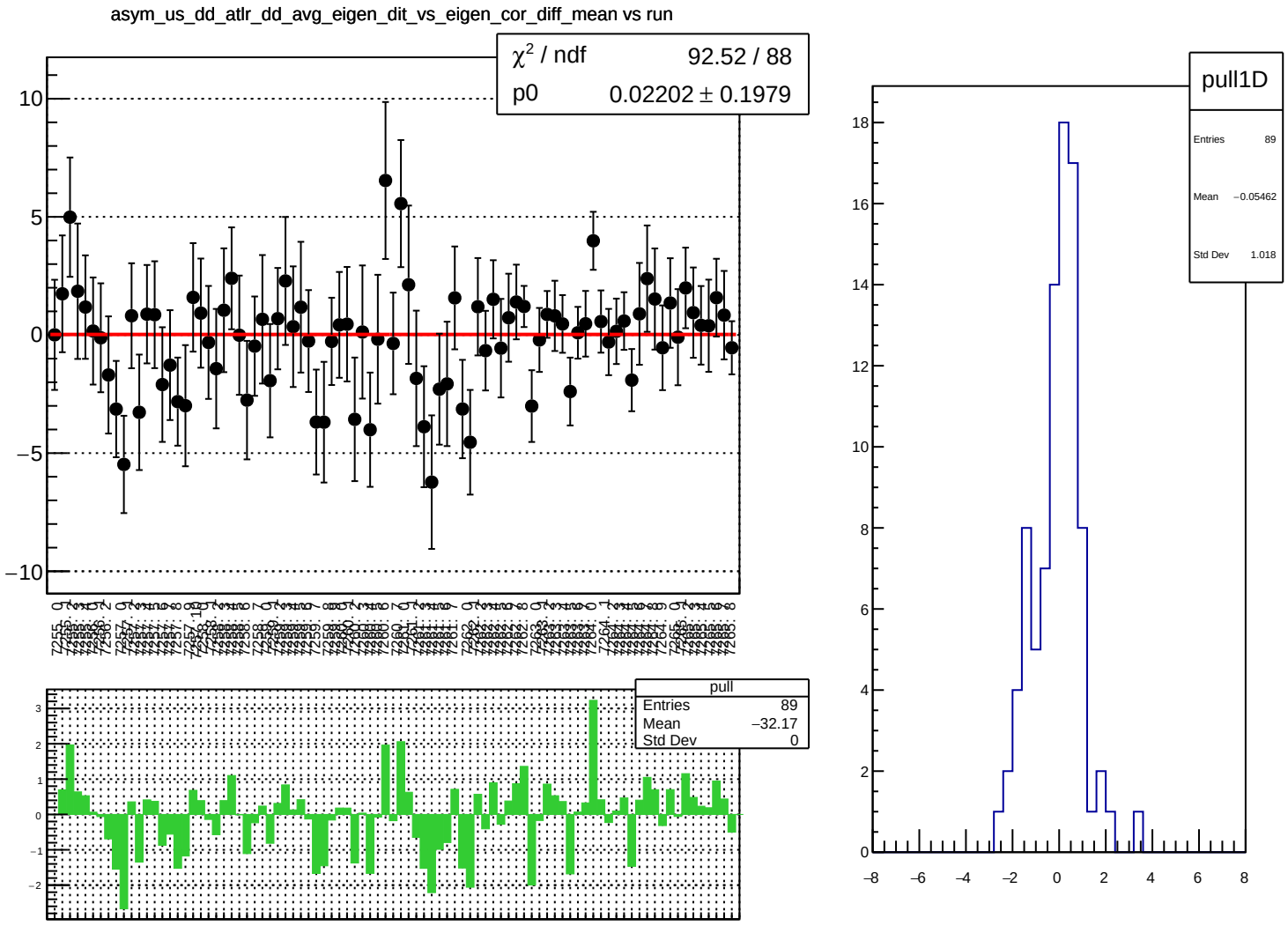

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.7 / 88
p0 −1.489e−06 ± 2.021e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean −66.48
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02545
Std Dev 1.125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

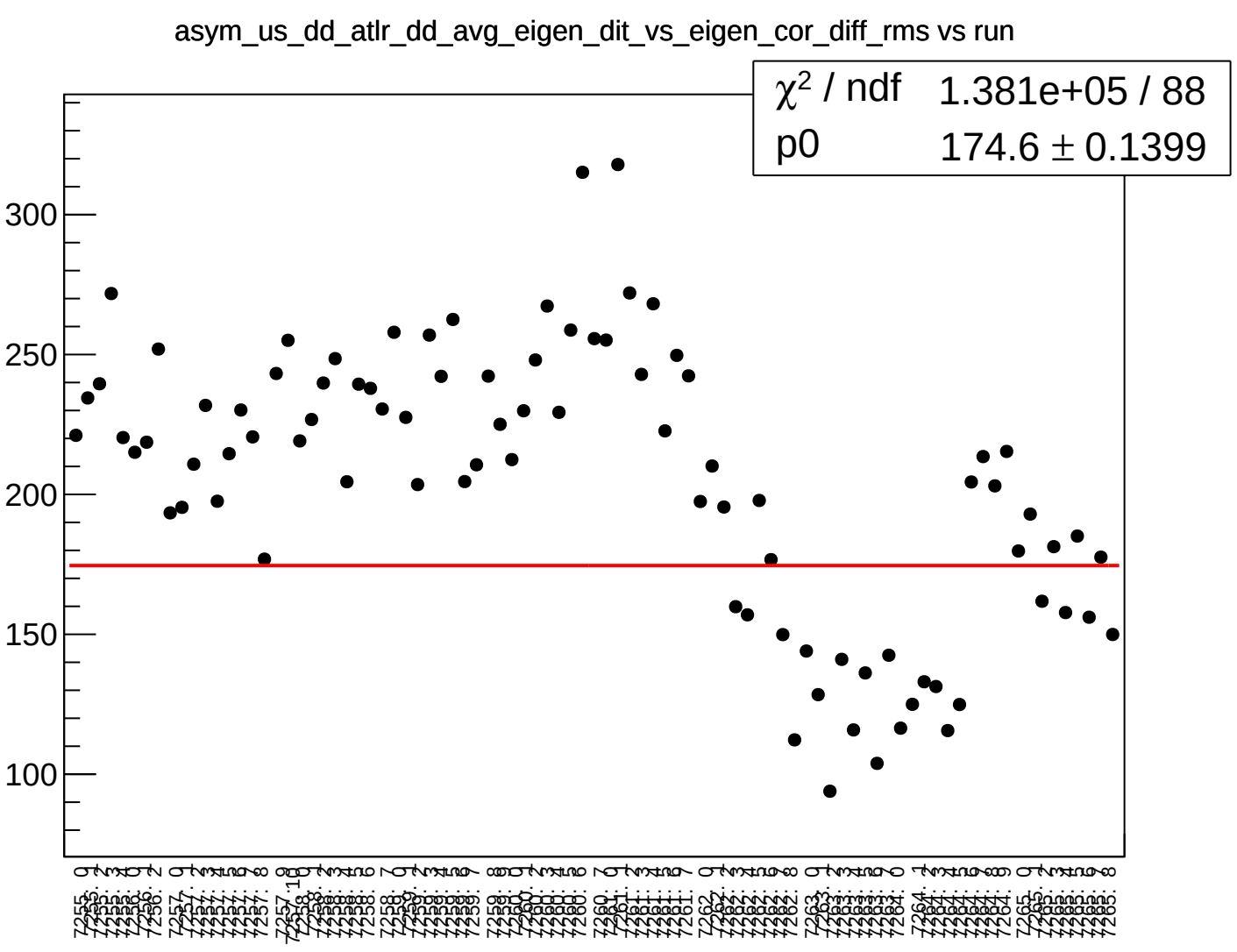

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1145 / 88
p0 0.00186 ± 1.429e−06
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175

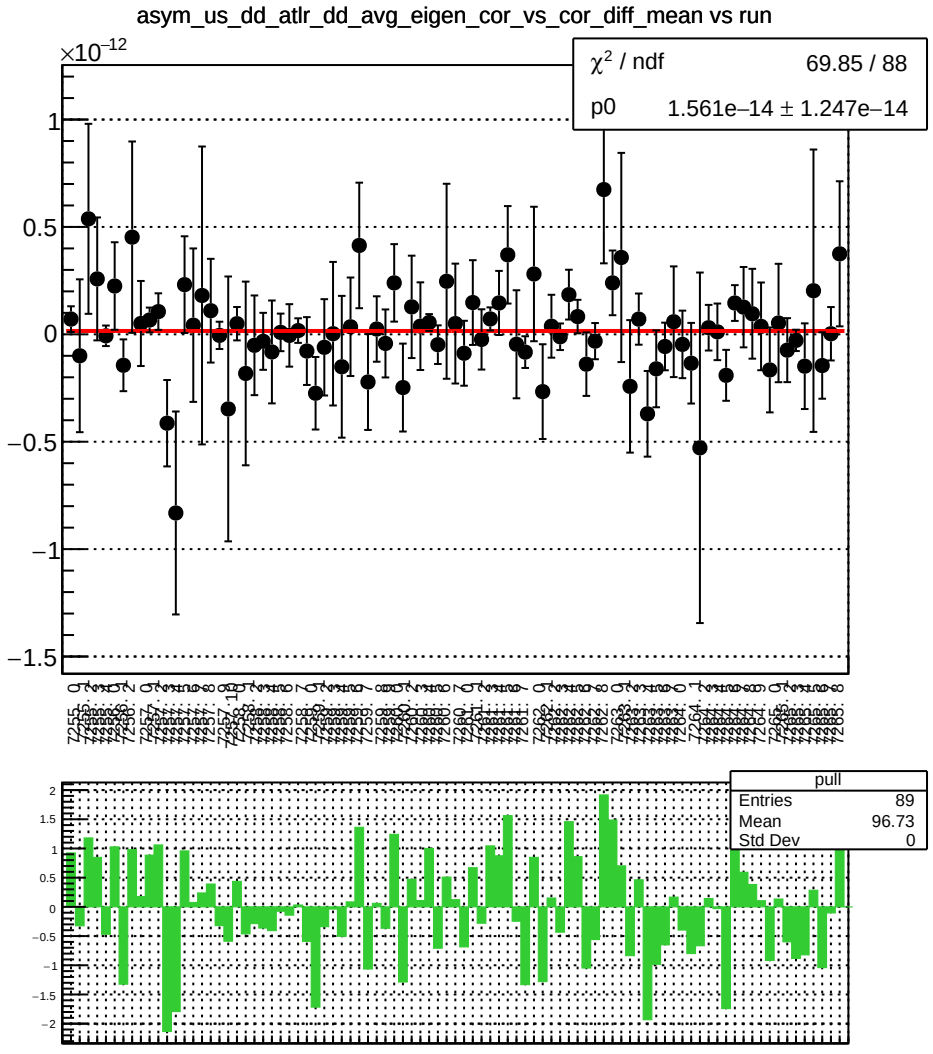

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.52 / 88
p0 0.02202 ± 0.1979
pull
Entries 89
Mean −32.17
Std Dev 0

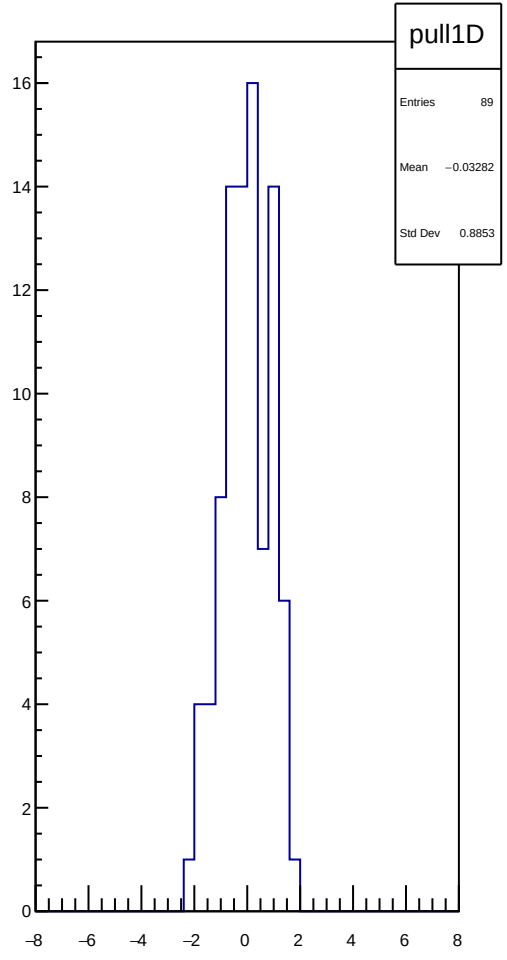

pull1D
Entries 89
Mean −0.05462
Std Dev 1.018

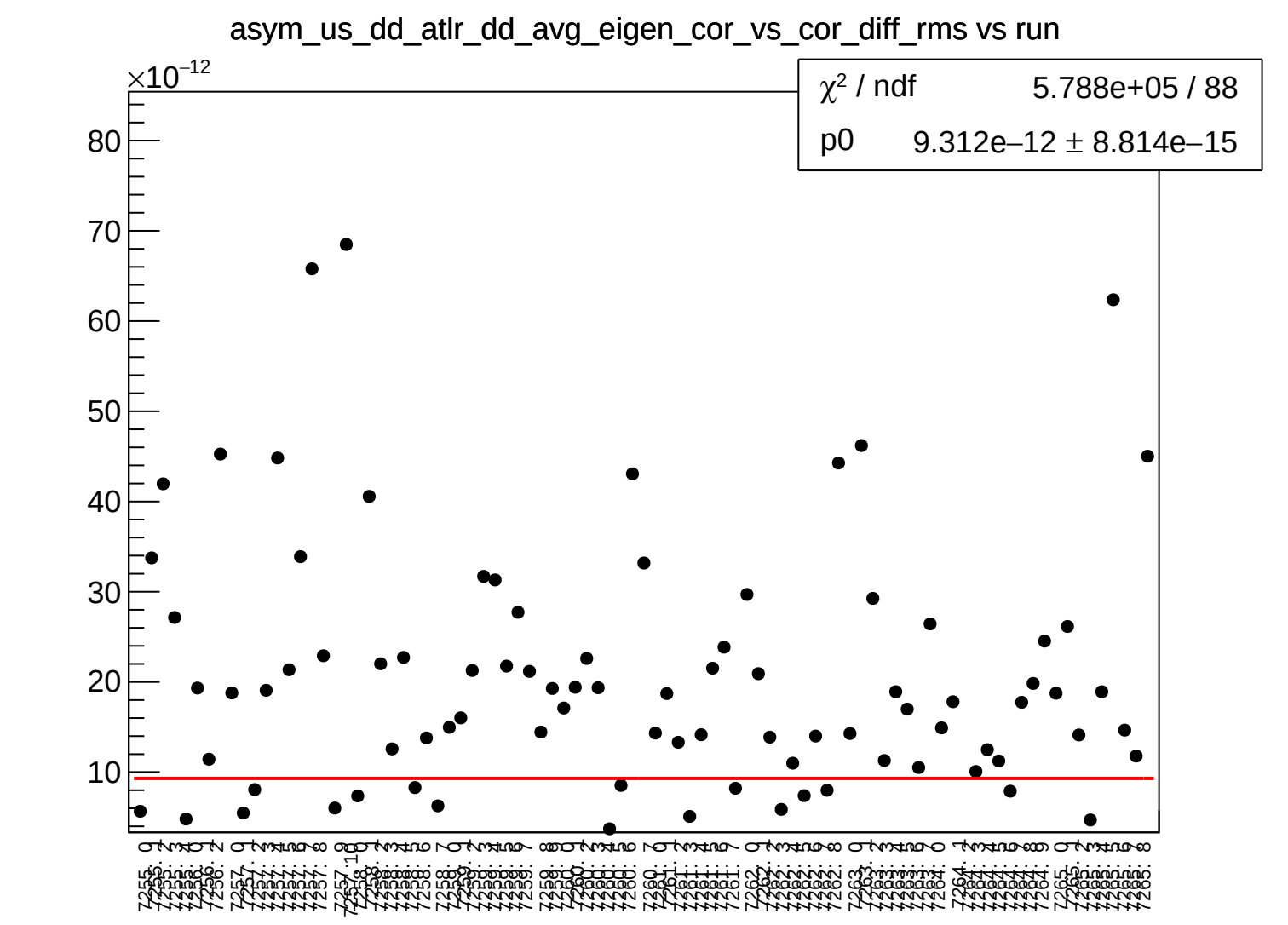

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.381e+05 / 88
p0 174.6 ± 0.1399
300
250
200
150
100

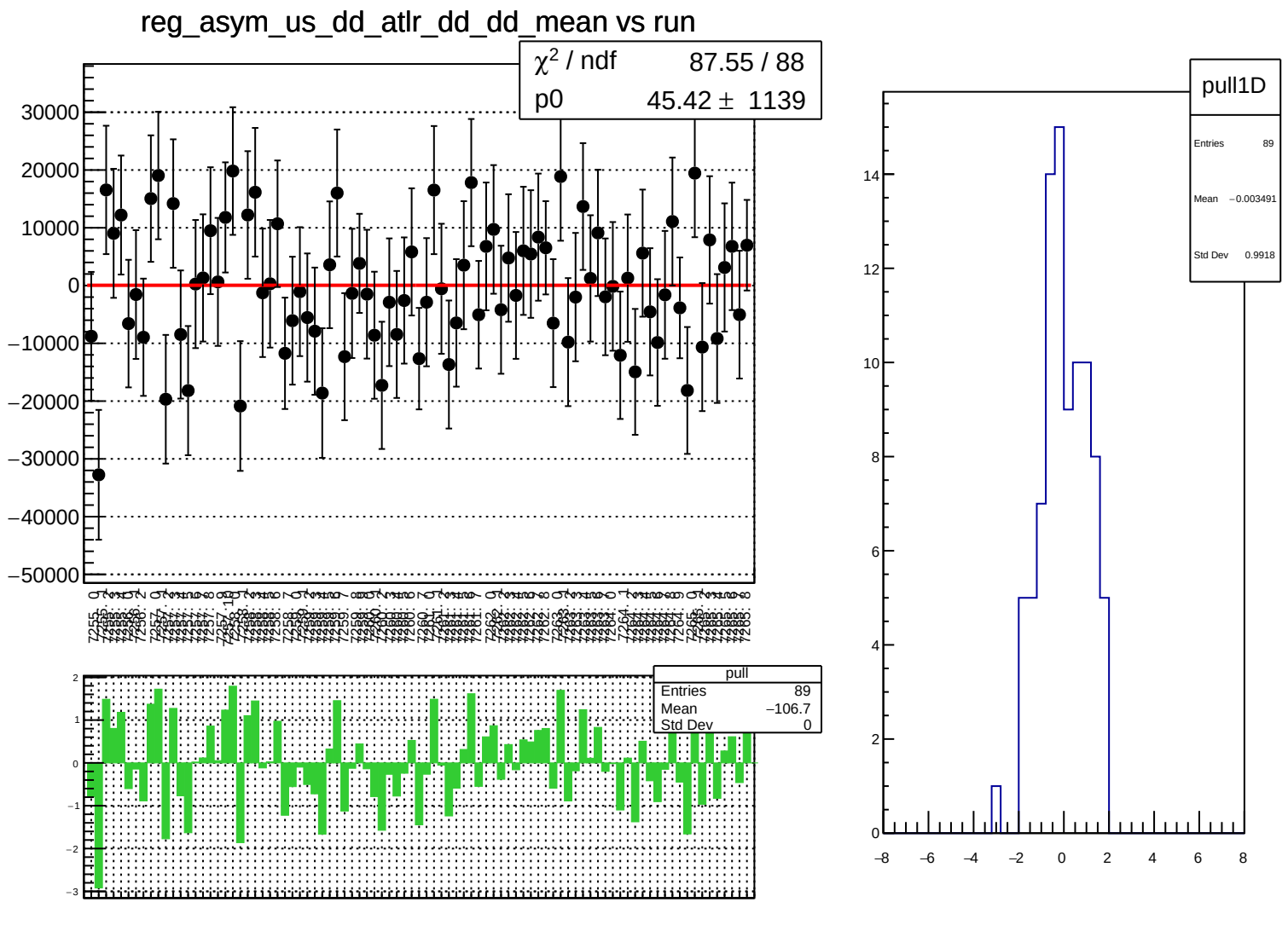

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.52 / 88
p0 0.02202 ± 0.1979
pull
Entries 89
Mean −32.17
Std Dev 0
pull1D
Entries 89
Mean −0.05462
Std Dev 1.018

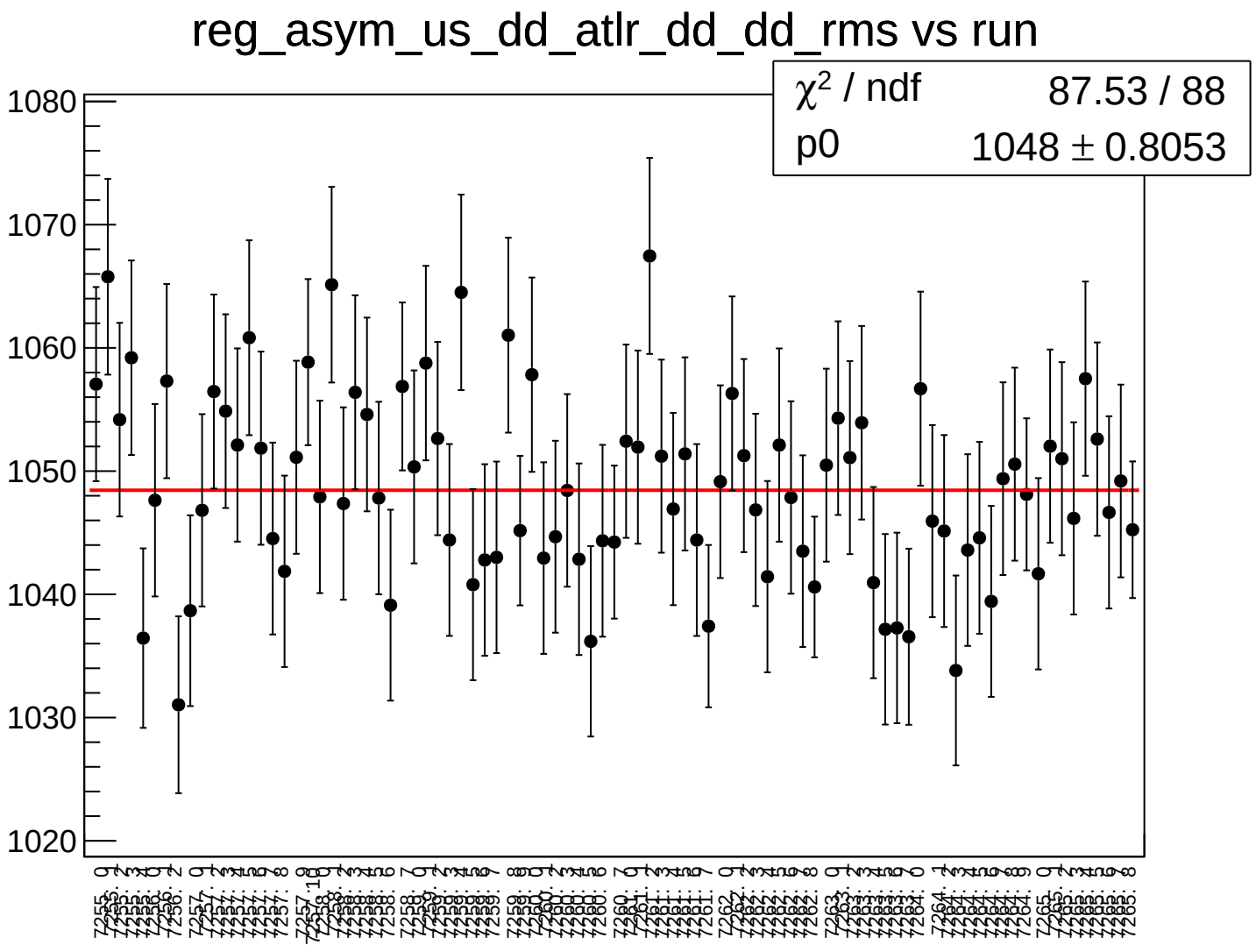

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.381e+05 / 88
p0 174.6 ± 0.1399
300
250
200
150
100

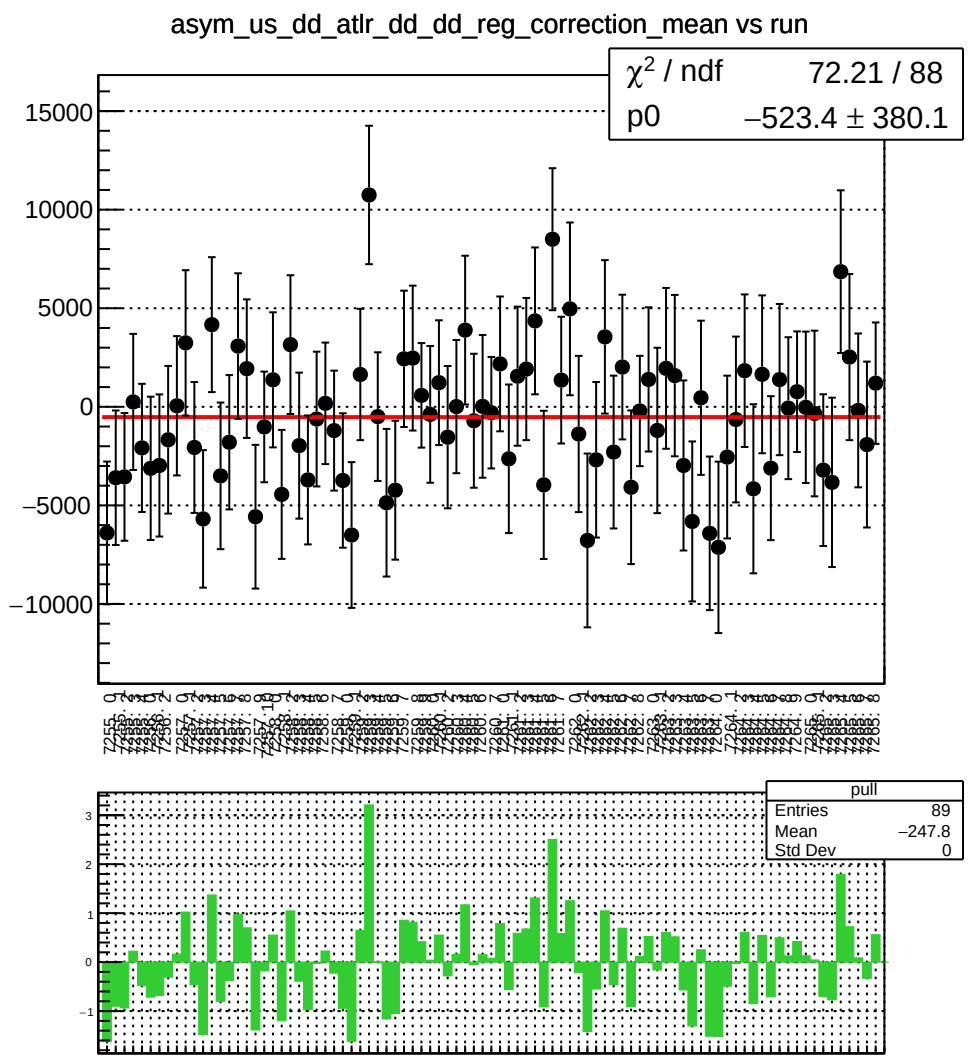

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 69.85 / 88
p0 1.561e−14 ± 1.247e−14
pull
Entries 89
Mean 96.73
Std Dev 0

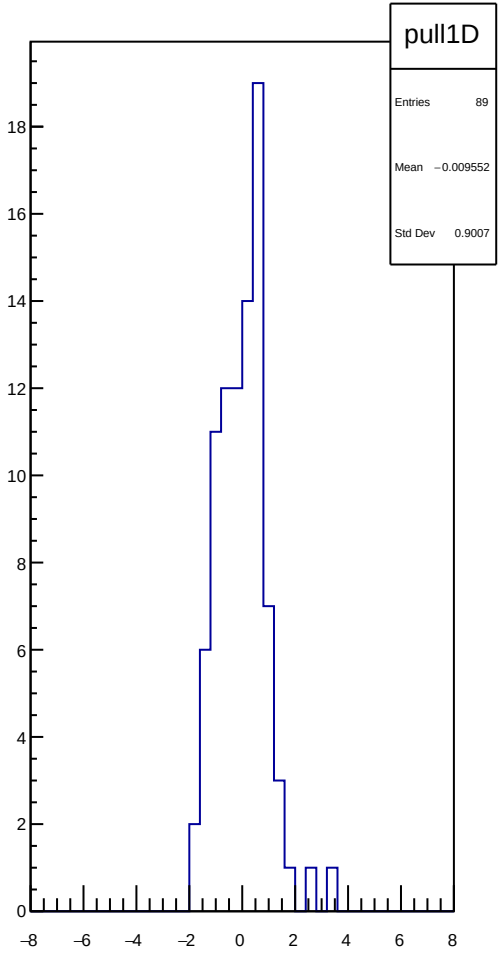

pull1D
Entries 89
Mean −0.03282
Std Dev 0.8853

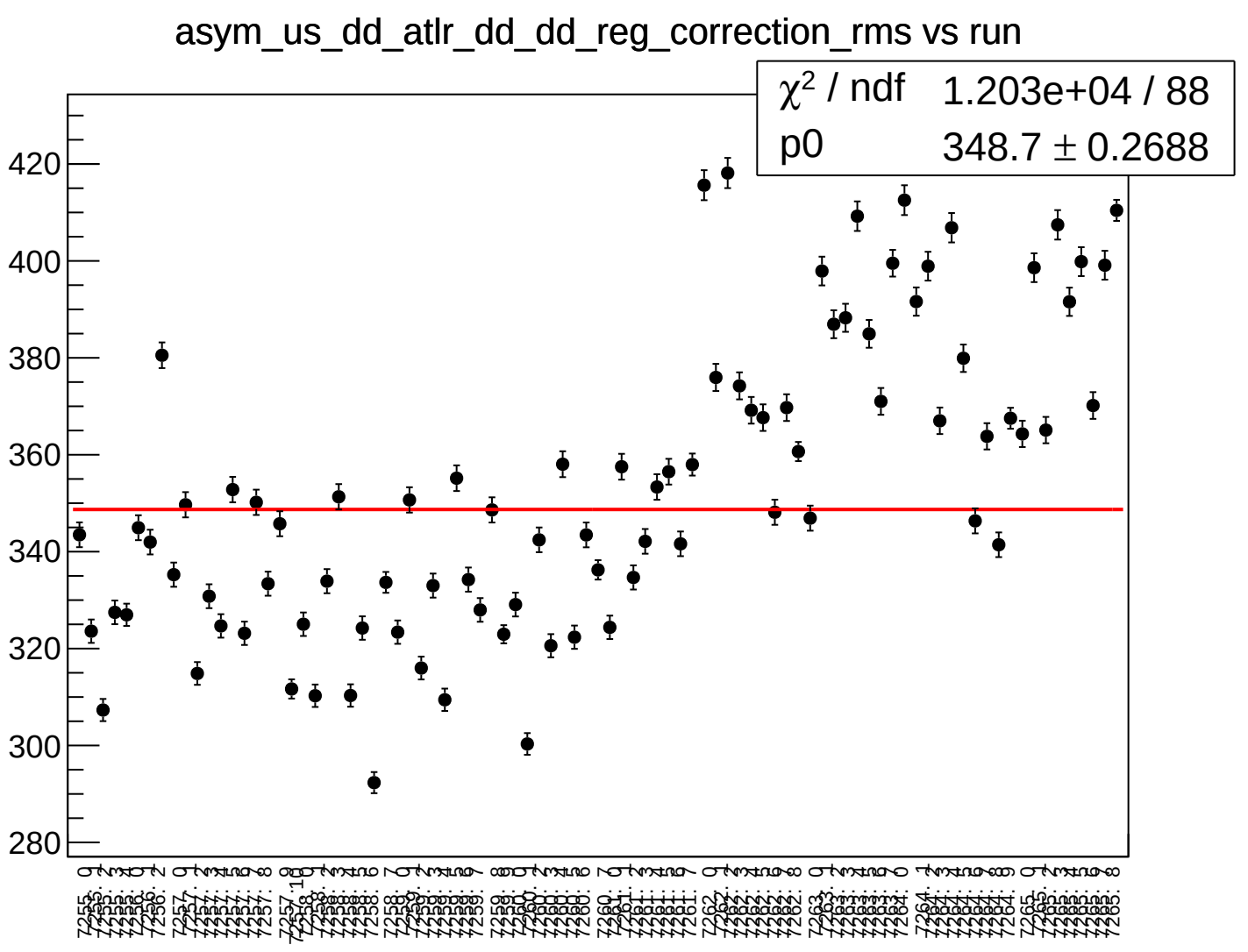

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.788e+05 / 88
p0 9.312e−12 ± 8.814e−15
80
70
60
50
40
30
20
10

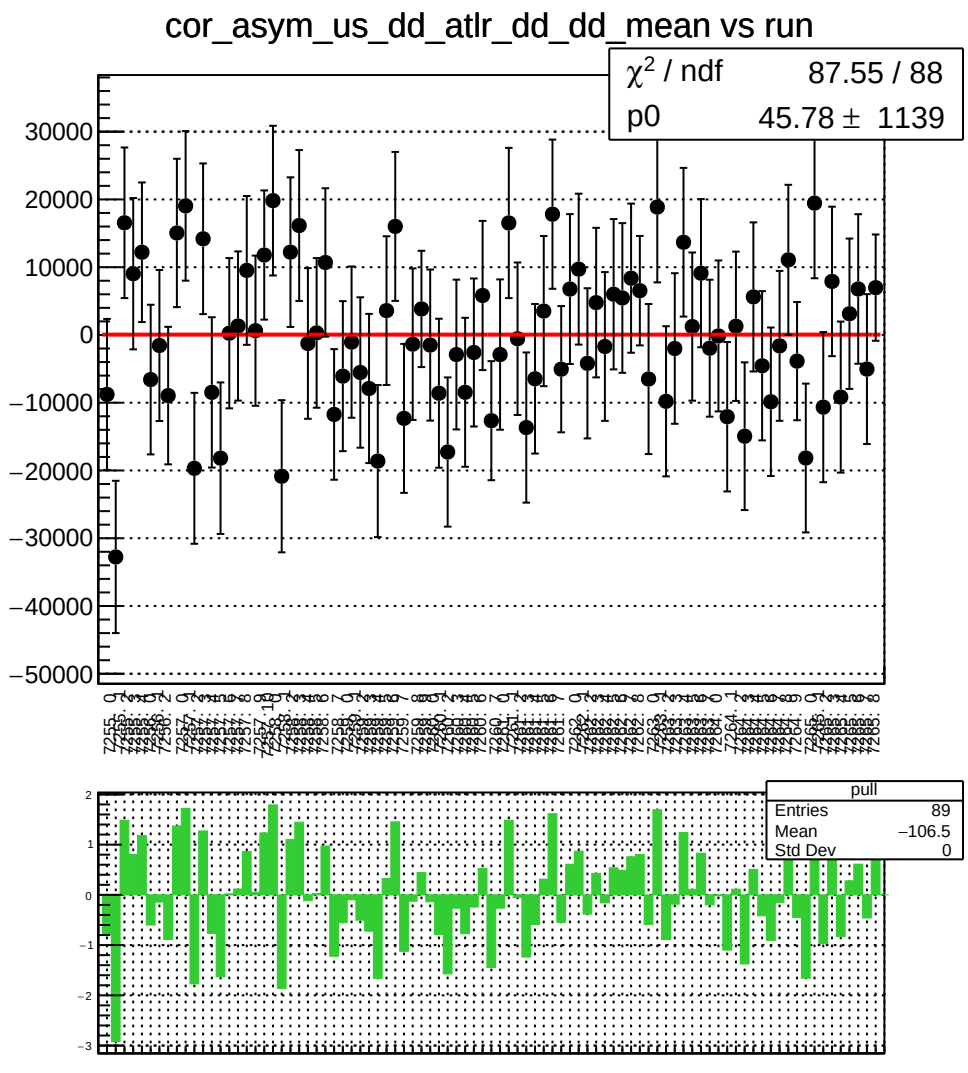

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 87.55 / 88
p0 45.42 ± 1139
pull
Entries 89
Mean −106.7
Std Dev 0
pull1D
Entries 89
Mean −0.003491
Std Dev 0.9918

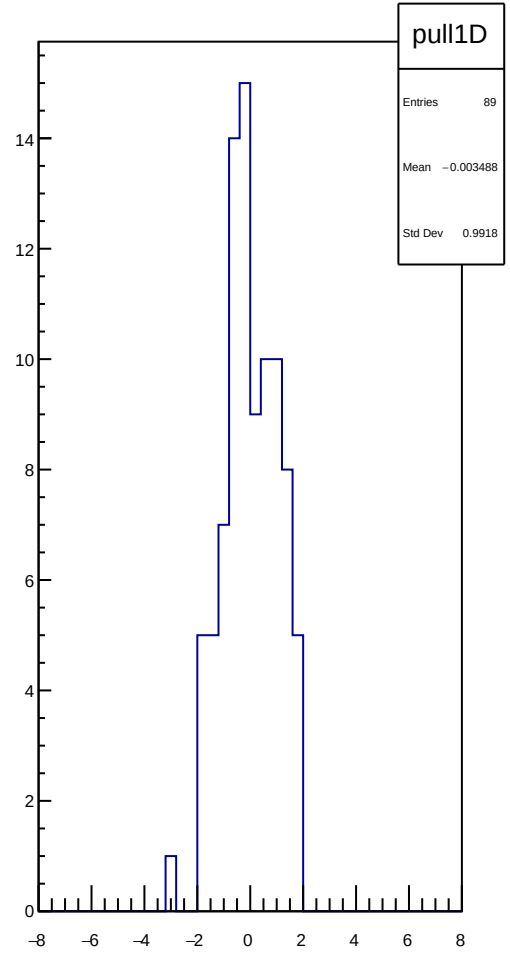

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 87.53 / 88
p0 1048 ± 0.8053
1080
1070
1060
1050
1040
1030
1020

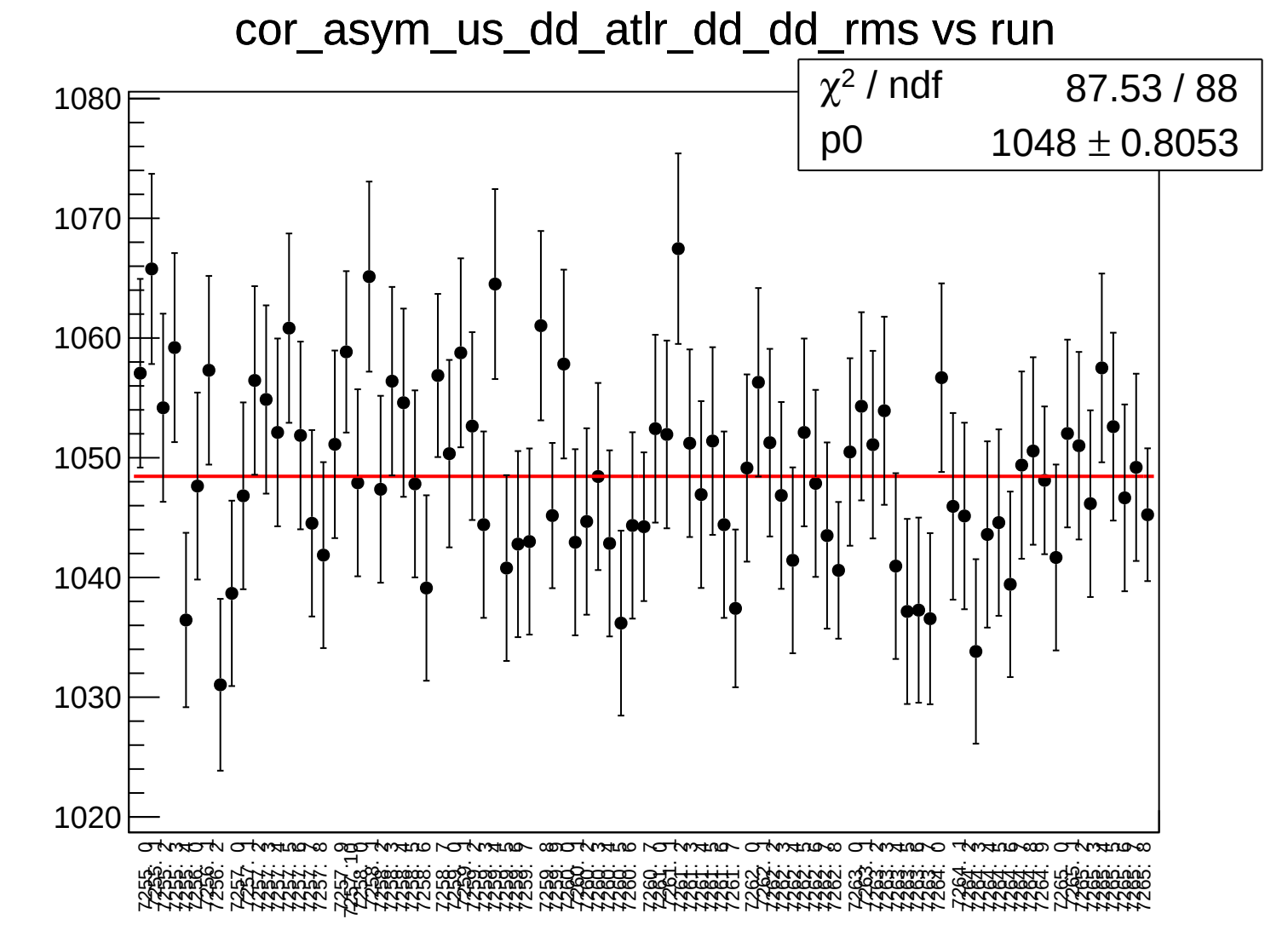

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 72.21 / 88
p0 −523.4 ± 380.1
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −247.8
Std Dev 0
3
2
1
0
−1

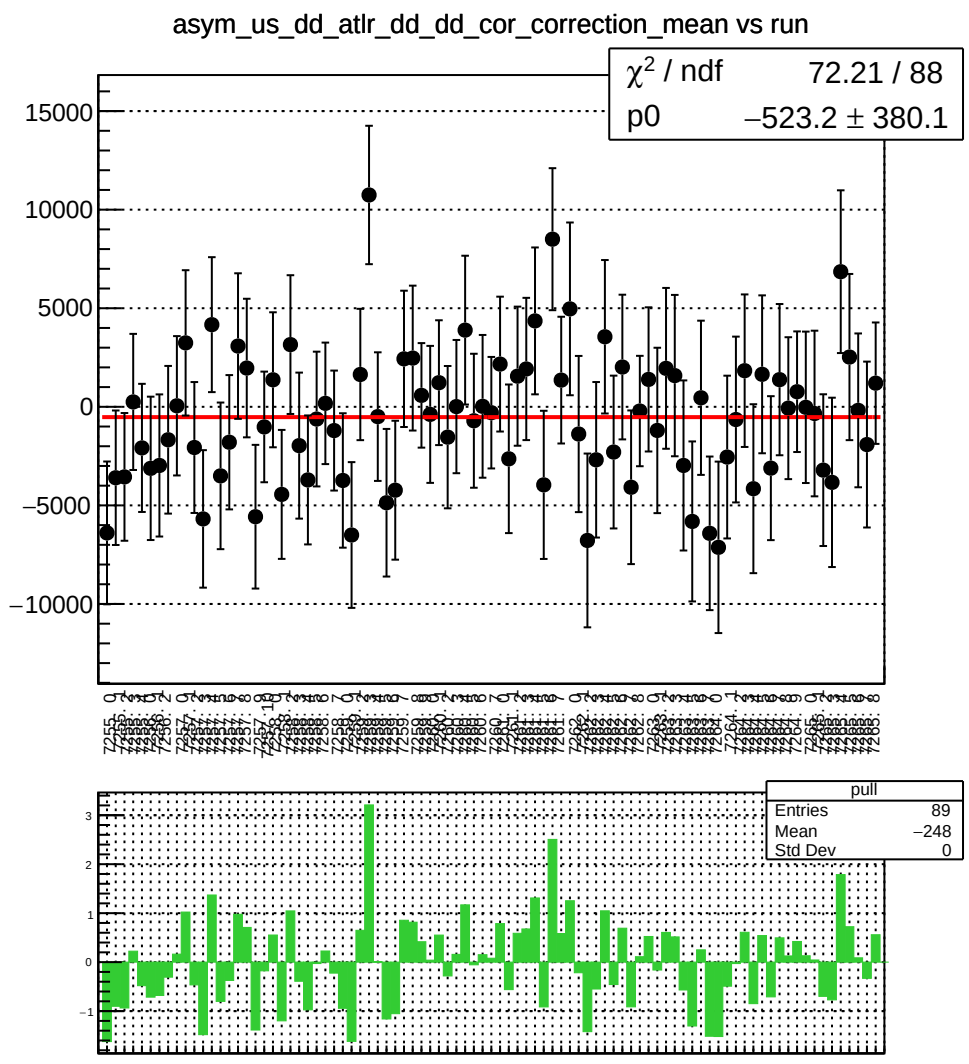

pull1D
Entries 89
Mean −0.009552
Std Dev 0.9007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

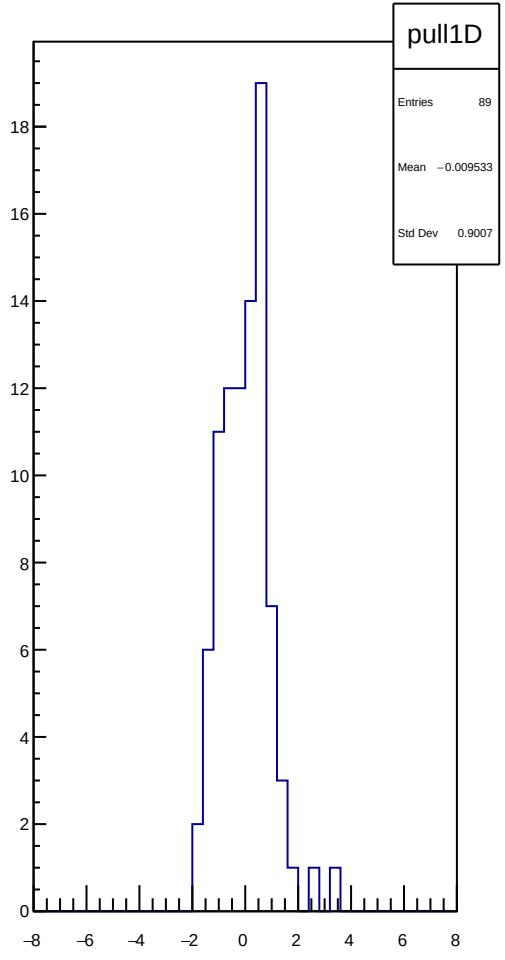

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.203e+04 / 88
p0 348.7 ± 0.2688
420
400
380
360
340
320
300
280

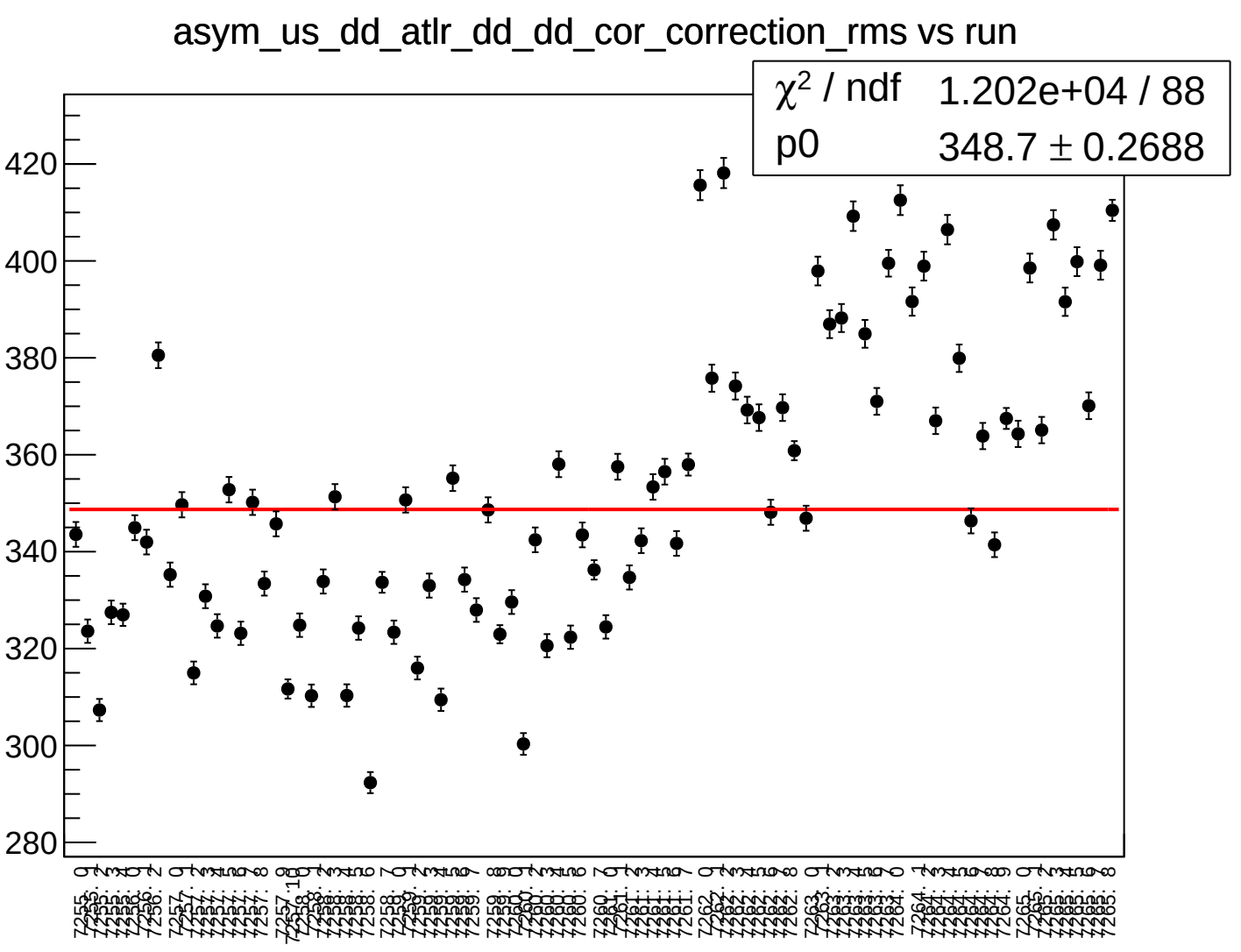

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 87.55 / 88
p0 45.78 ± 1139
pull
Entries 89
Mean −106.5
Std Dev 0

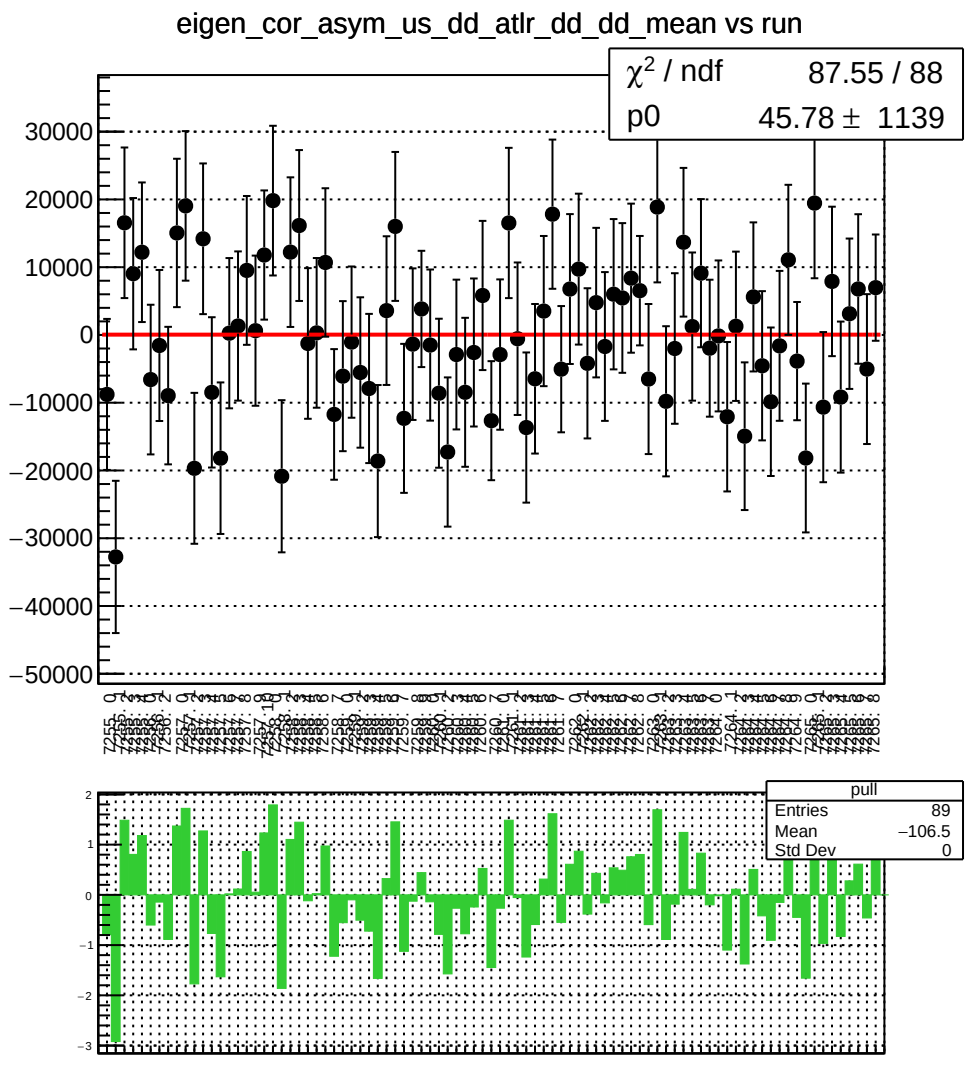

pull1D
Entries 89
Mean −0.003488
Std Dev 0.9918

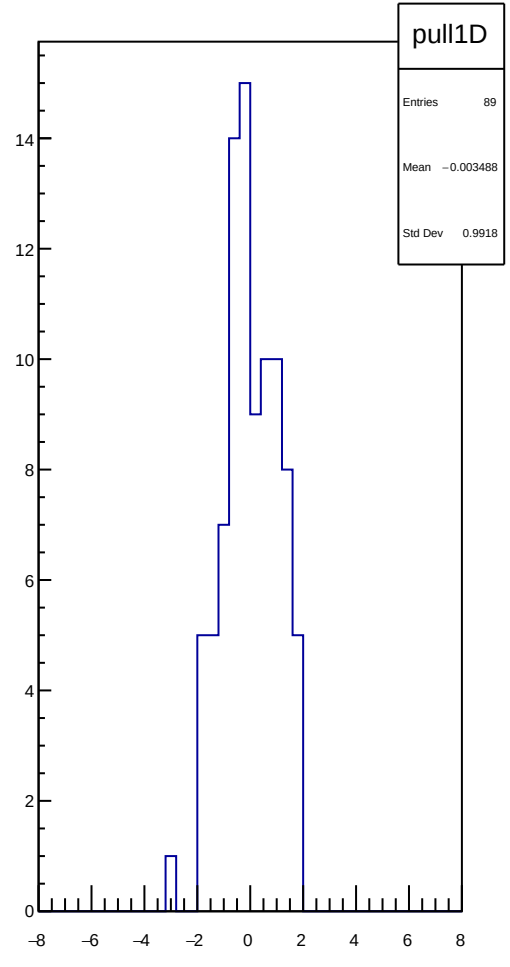

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 87.53 / 88
p0 1048 ± 0.8053
1080
1070
1060
1050
1040
1030
1020

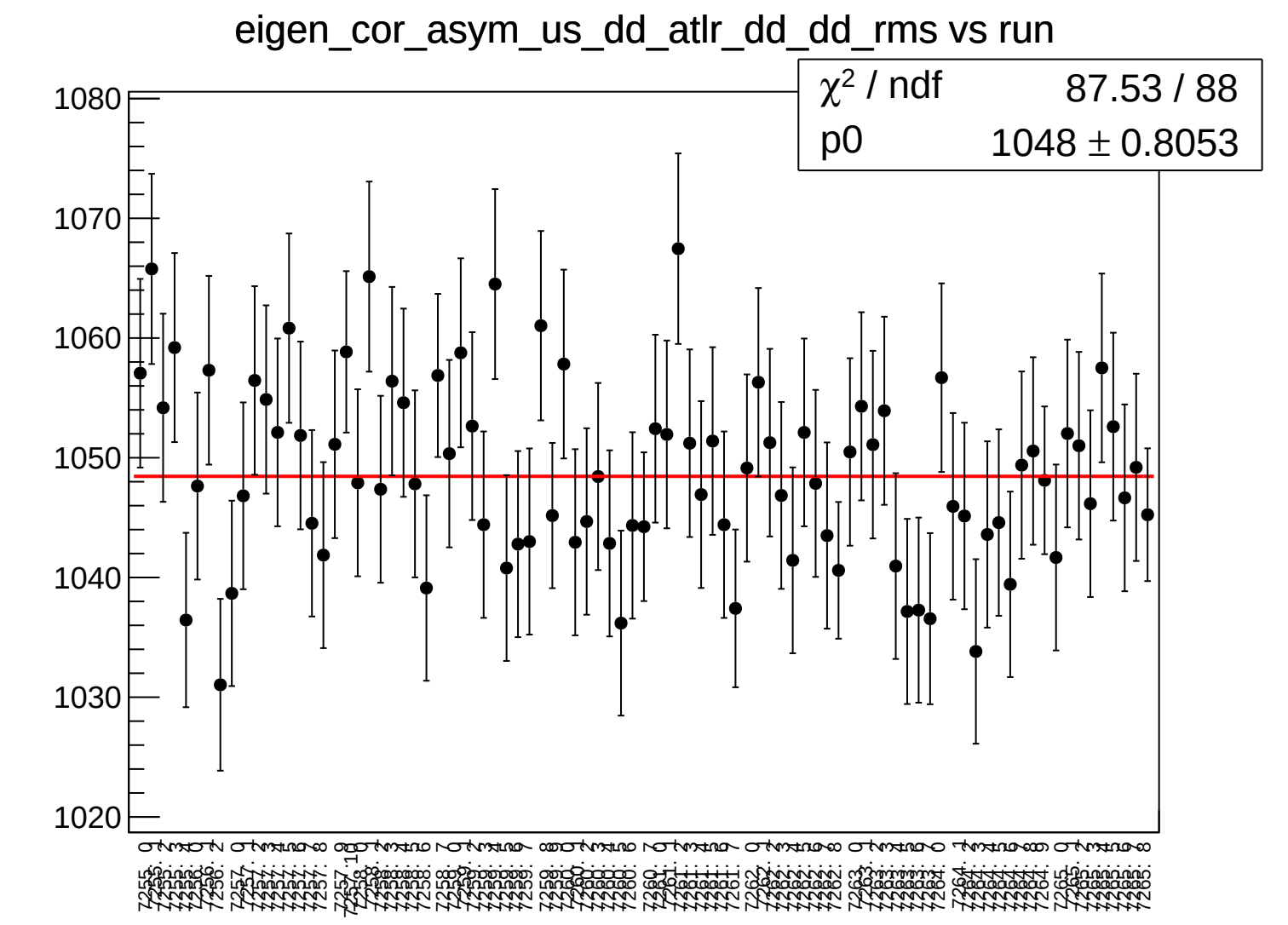

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 72.21 / 88
p0 −523.2 ± 380.1
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −248
Std Dev 0
3
2
1
0
−1

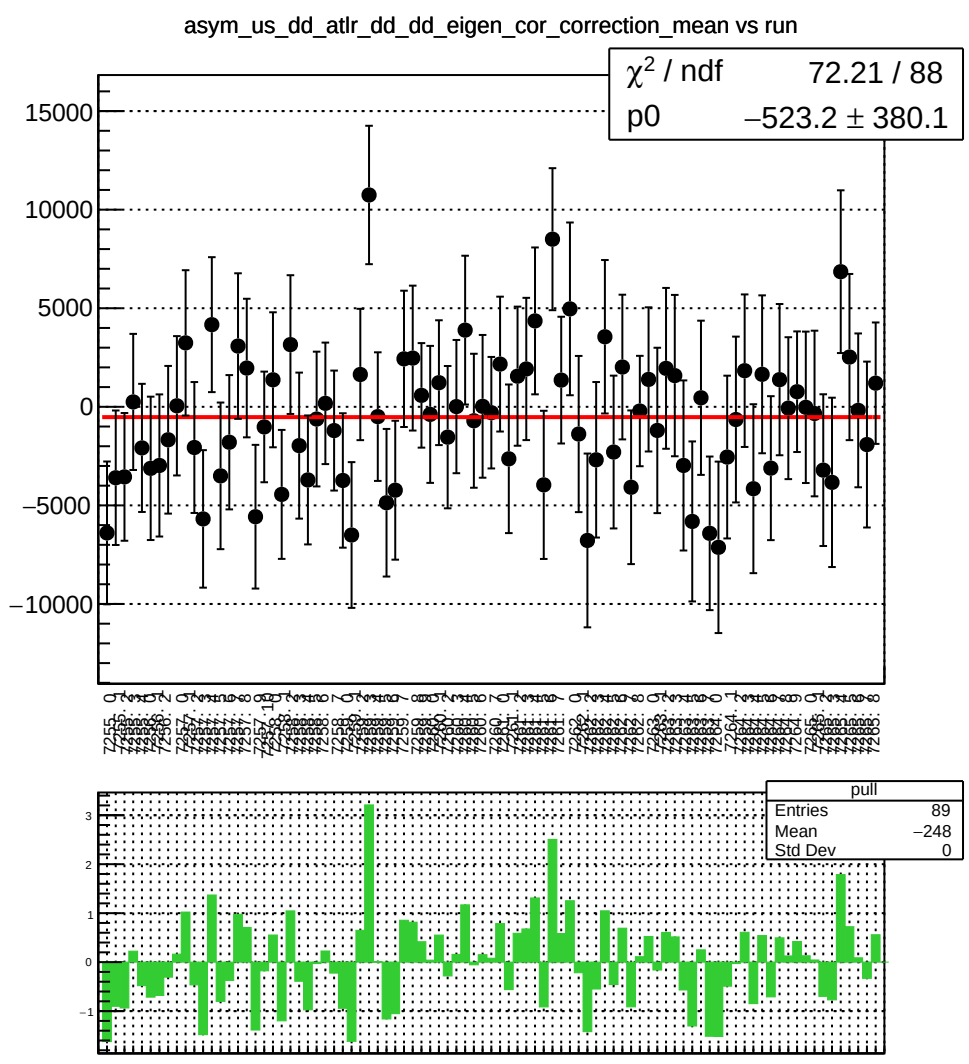

pull1D
Entries 89
Mean −0.009533
Std Dev 0.9007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

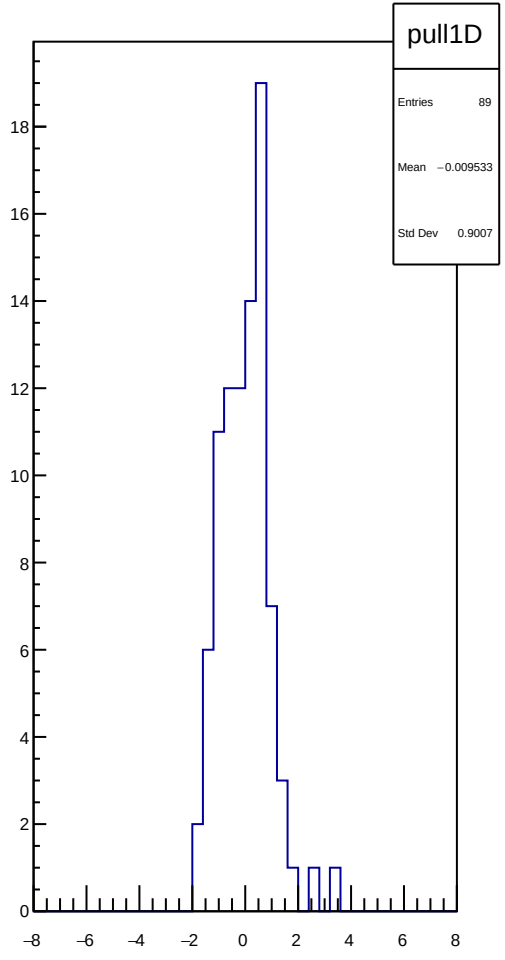

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.202e+04 / 88
p0 348.7 ± 0.2688
420
400
380
360
340
320
300
280

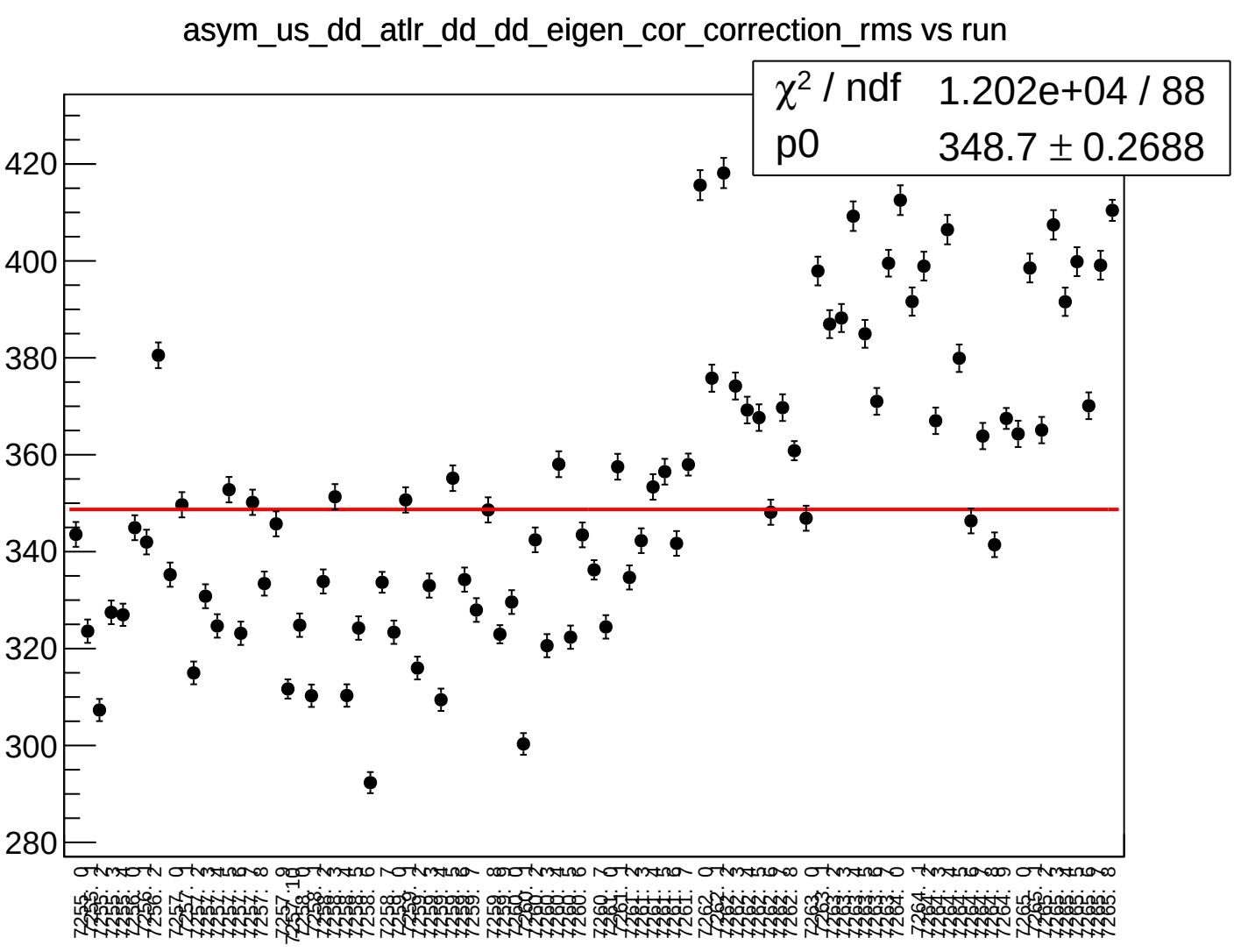

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 87.55 / 88
p0 45.78 ± 1139
pull
Entries 89
Mean −106.5
Std Dev 0

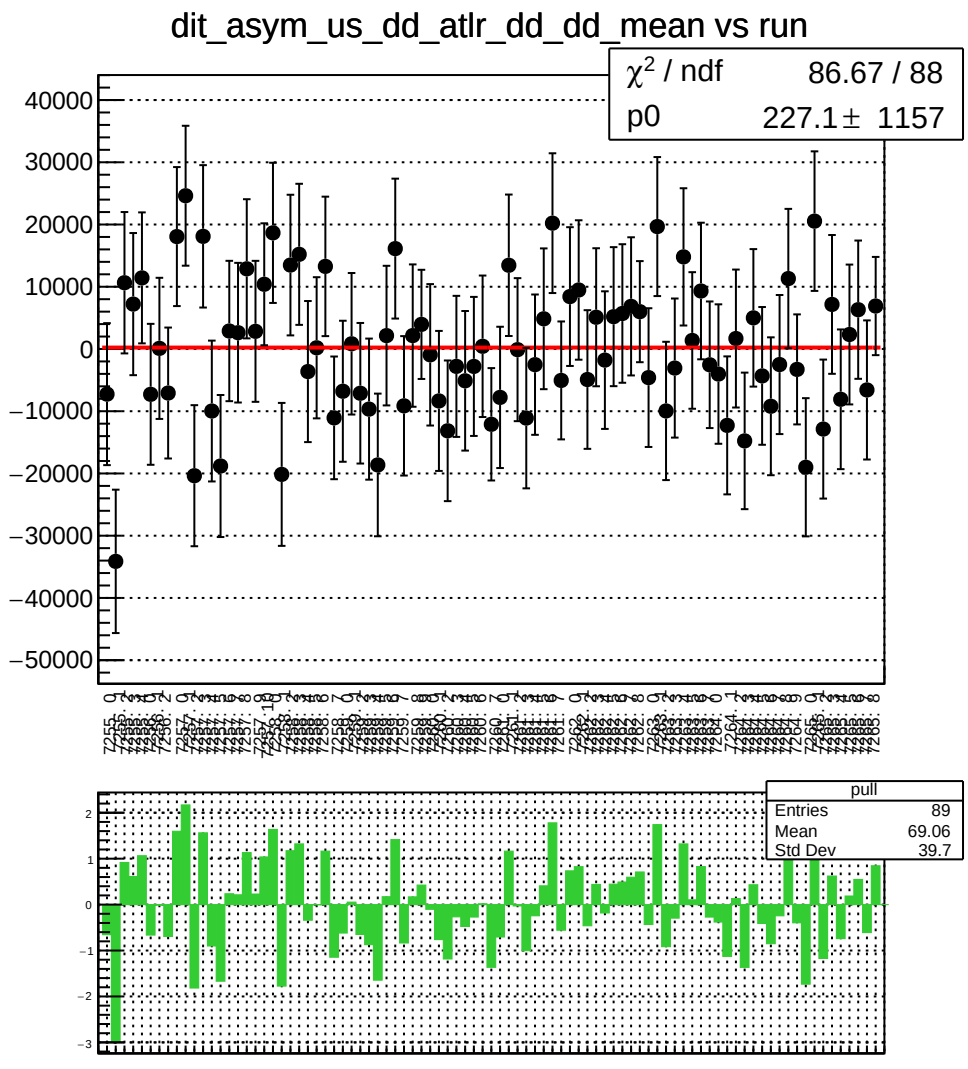

pull1D
Entries 89
Mean −0.003488
Std Dev 0.9918

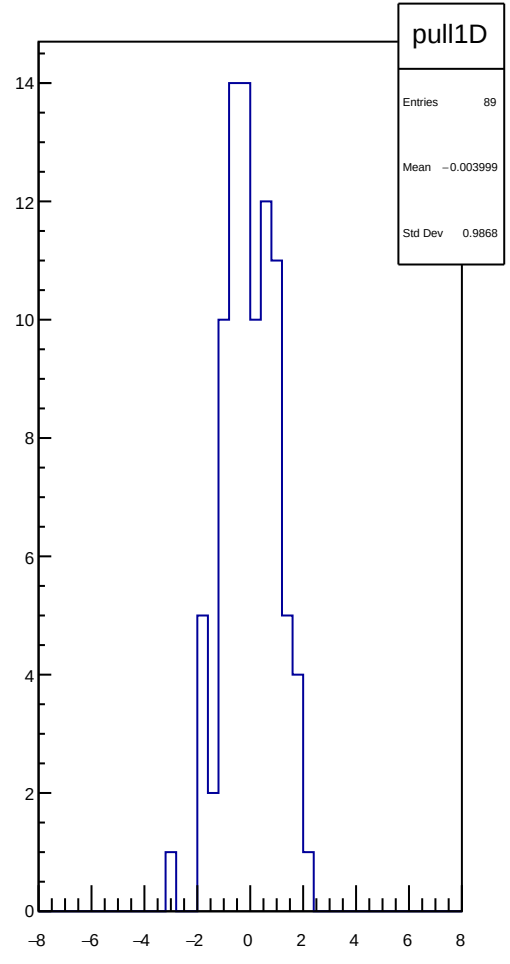

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 87.53 / 88
p0 1048 ± 0.8053
1080
1070
1060
1050
1040
1030
1020

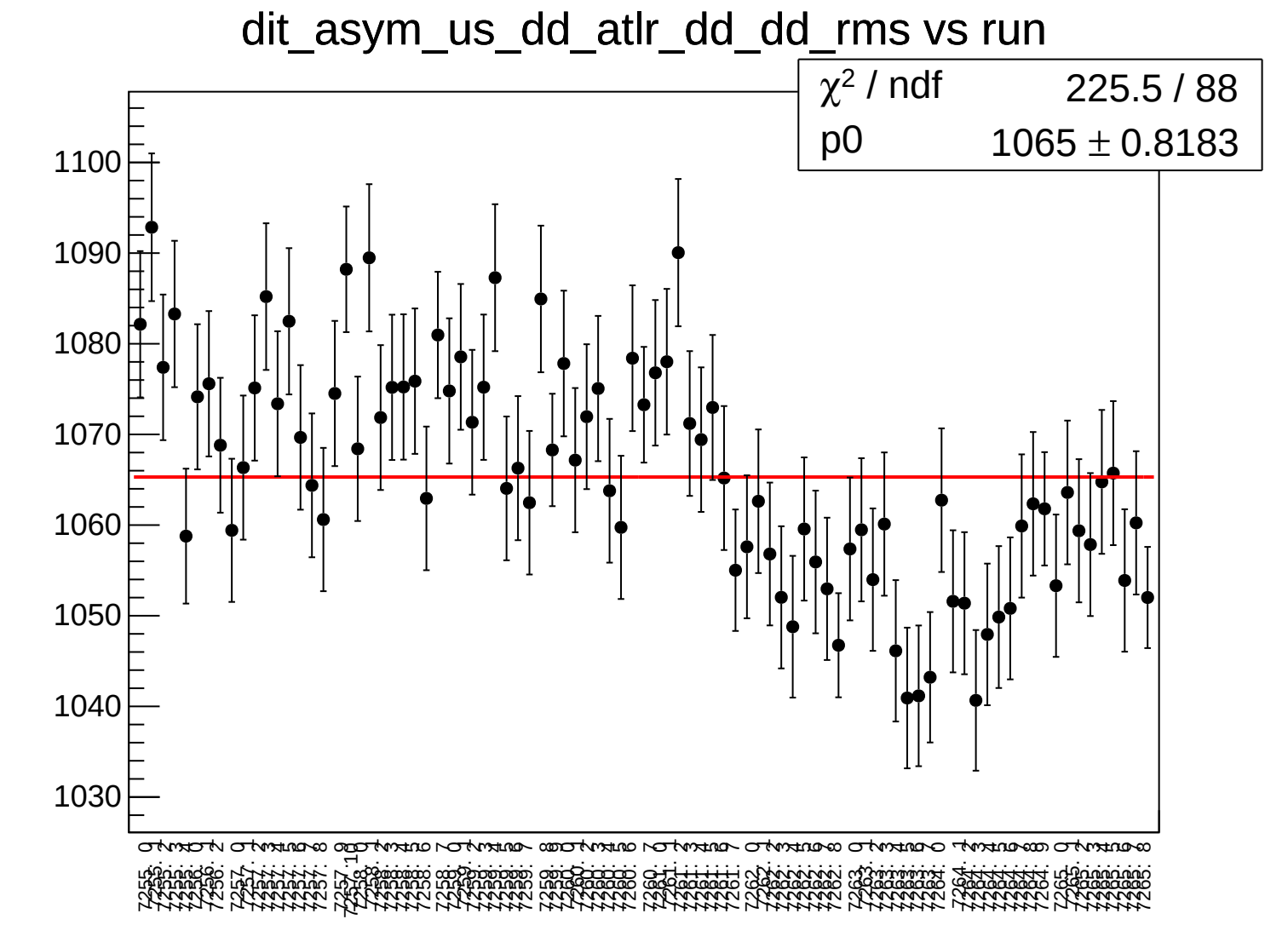

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.21 / 88
p0 −523.2 ± 380.1
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −248
Std Dev 0
3
2
1
0
−1

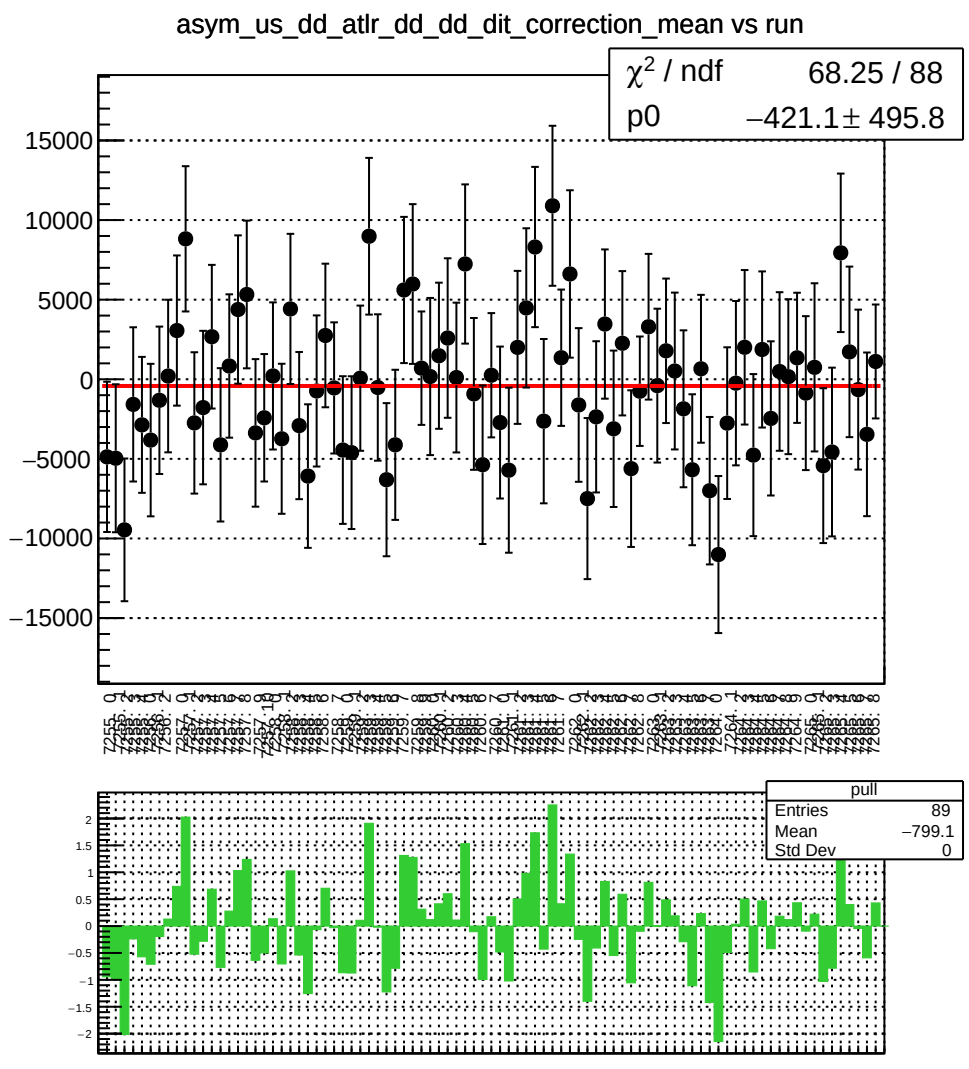

pull1D
Entries 89
Mean −0.009533
Std Dev 0.9007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

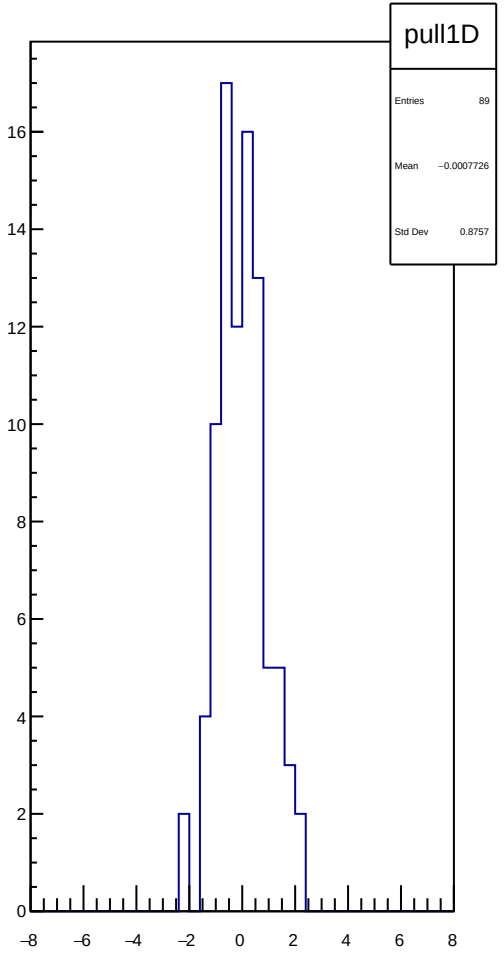

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.202e+04 / 88
p0 348.7 ± 0.2688
420
400
380
360
340
320
300
280

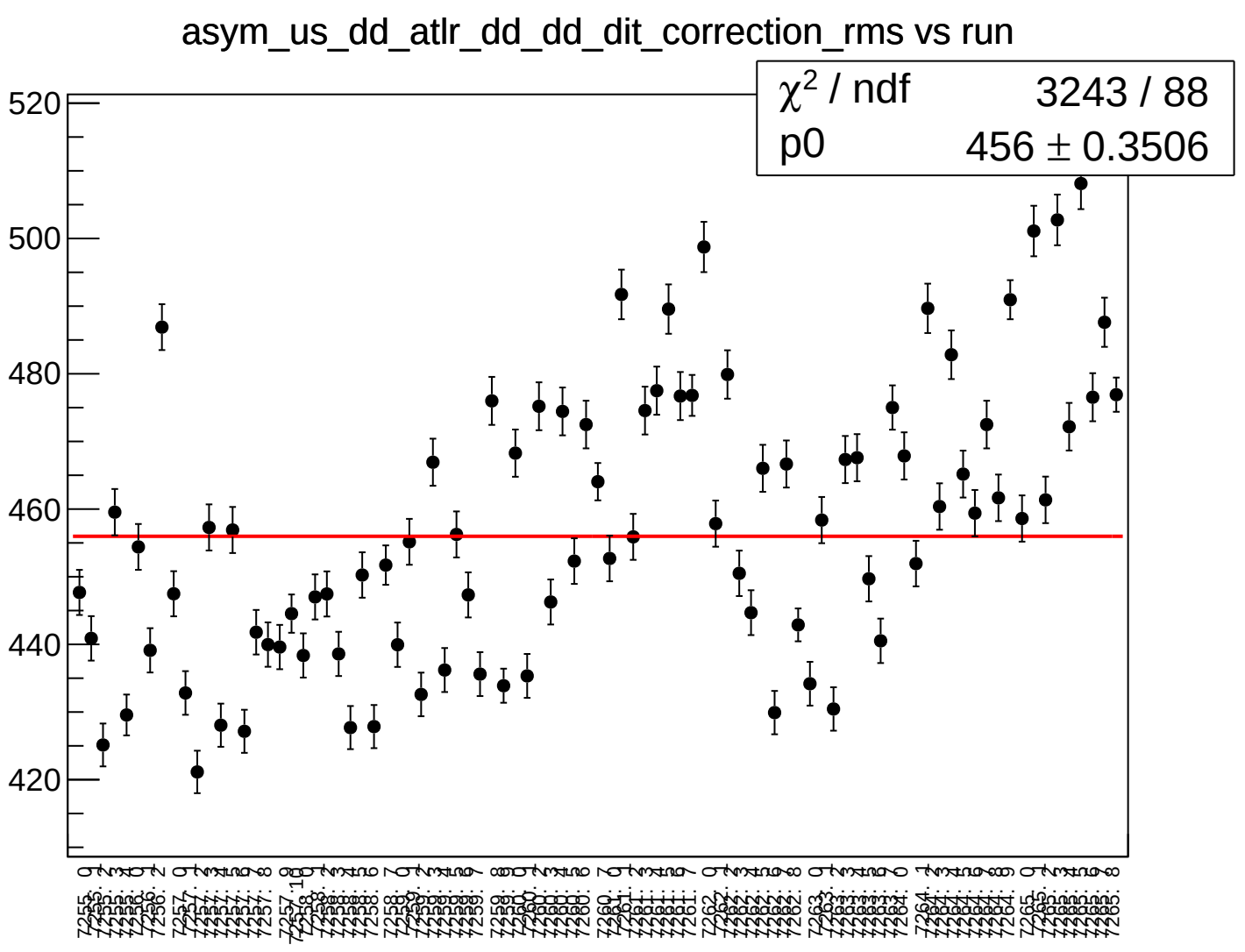

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 86.67 / 88
p0 227.1 ± 1157
pull
Entries 89
Mean 69.06
Std Dev 39.7

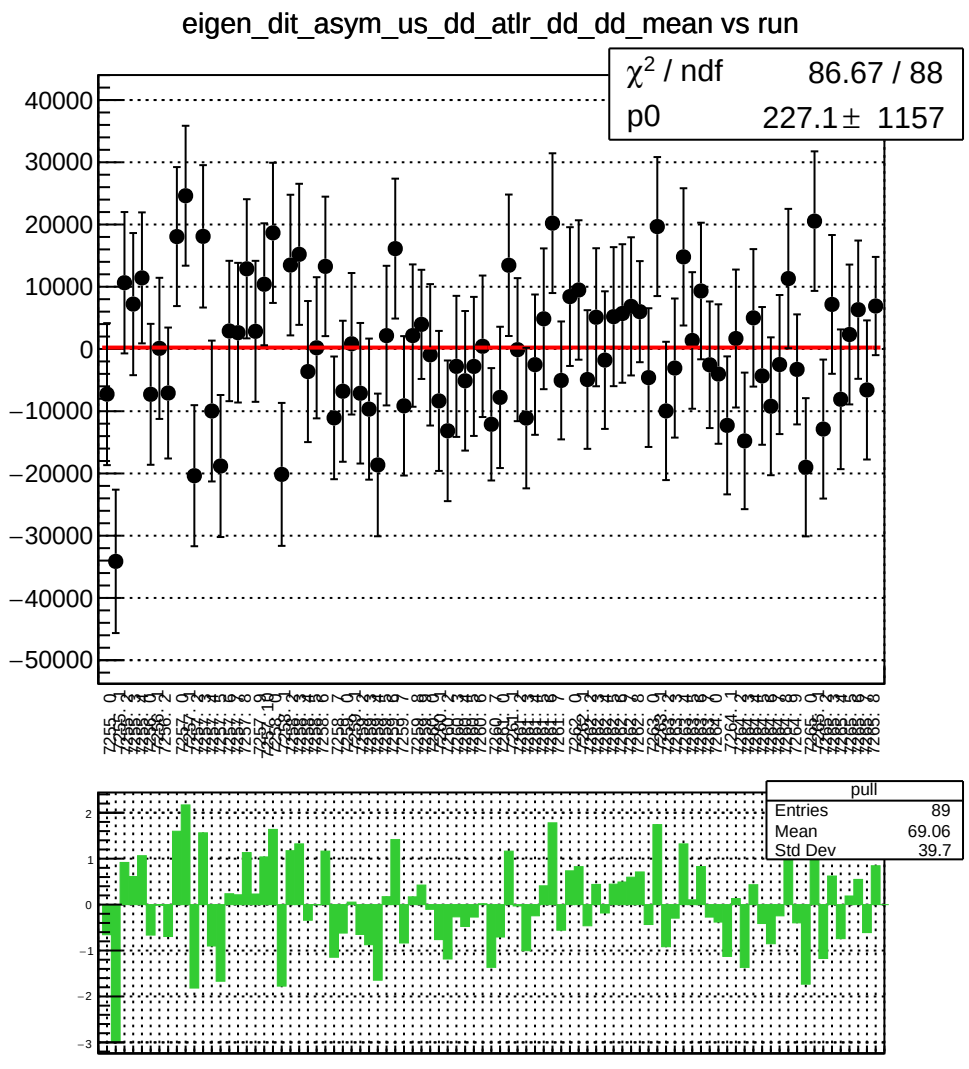

pull1D
Entries 89
Mean −0.003999
Std Dev 0.9868

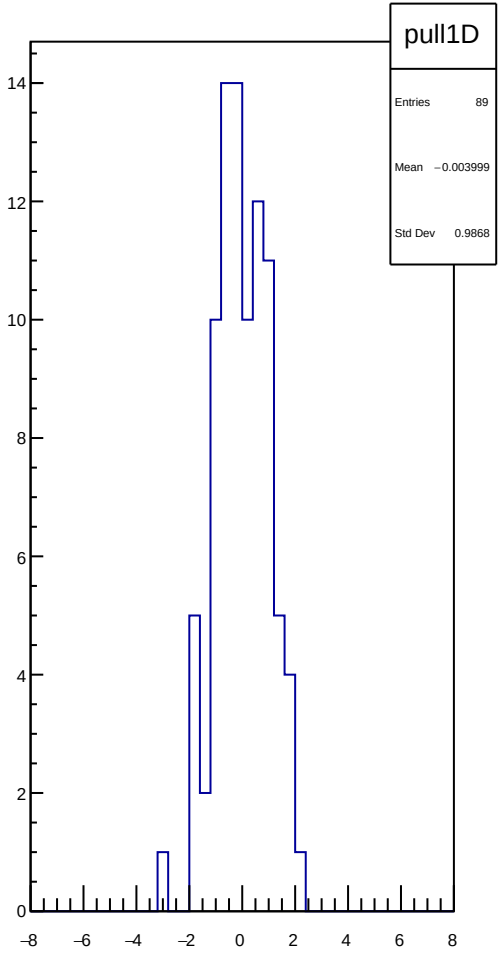

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 225.5 / 88
p0 1065 ± 0.8183
1100
1090
1080
1070
1060
1050
1040
1030

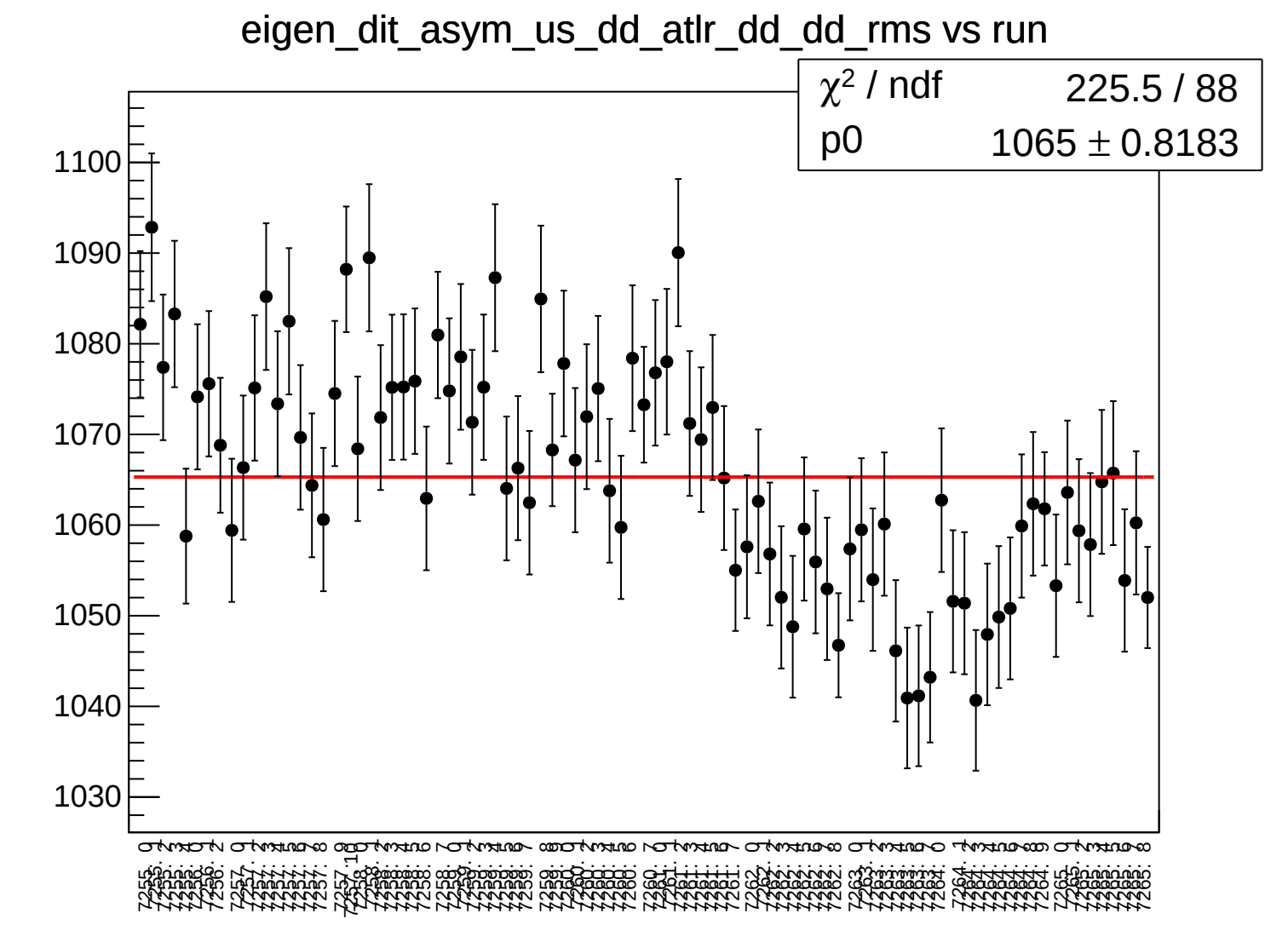

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 68.25 / 88
p0 −421.1 ± 495.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −799.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

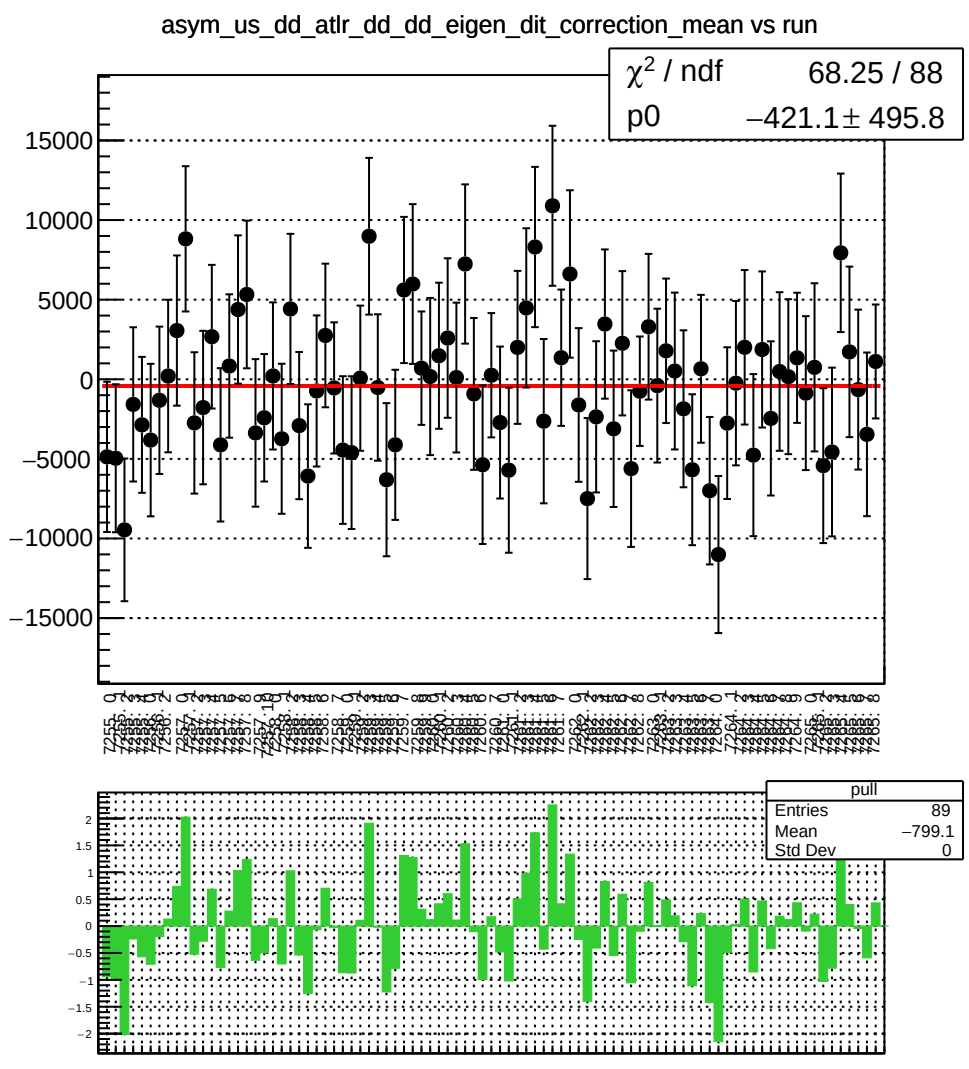

pull1D
Entries 89
Mean −0.0007726
Std Dev 0.8757
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

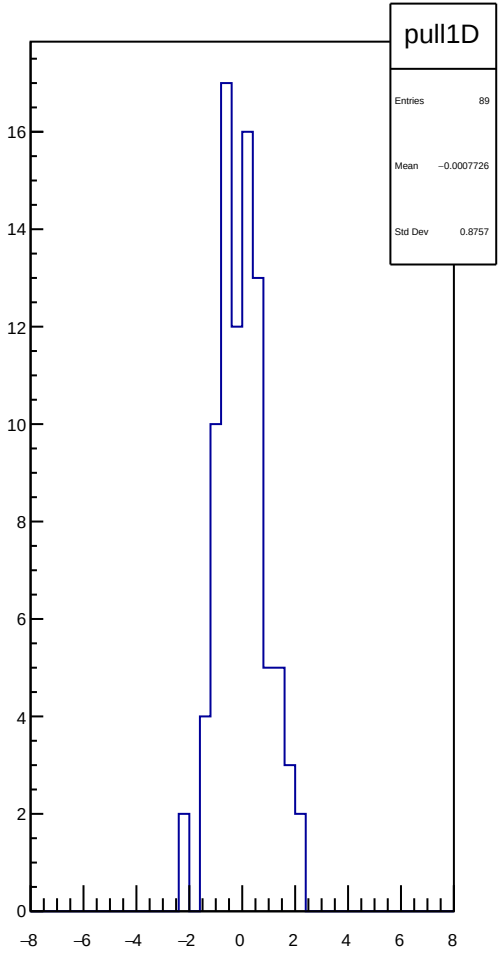

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 3243 / 88
p0 456 ± 0.3506
520
500
480
460
440
420

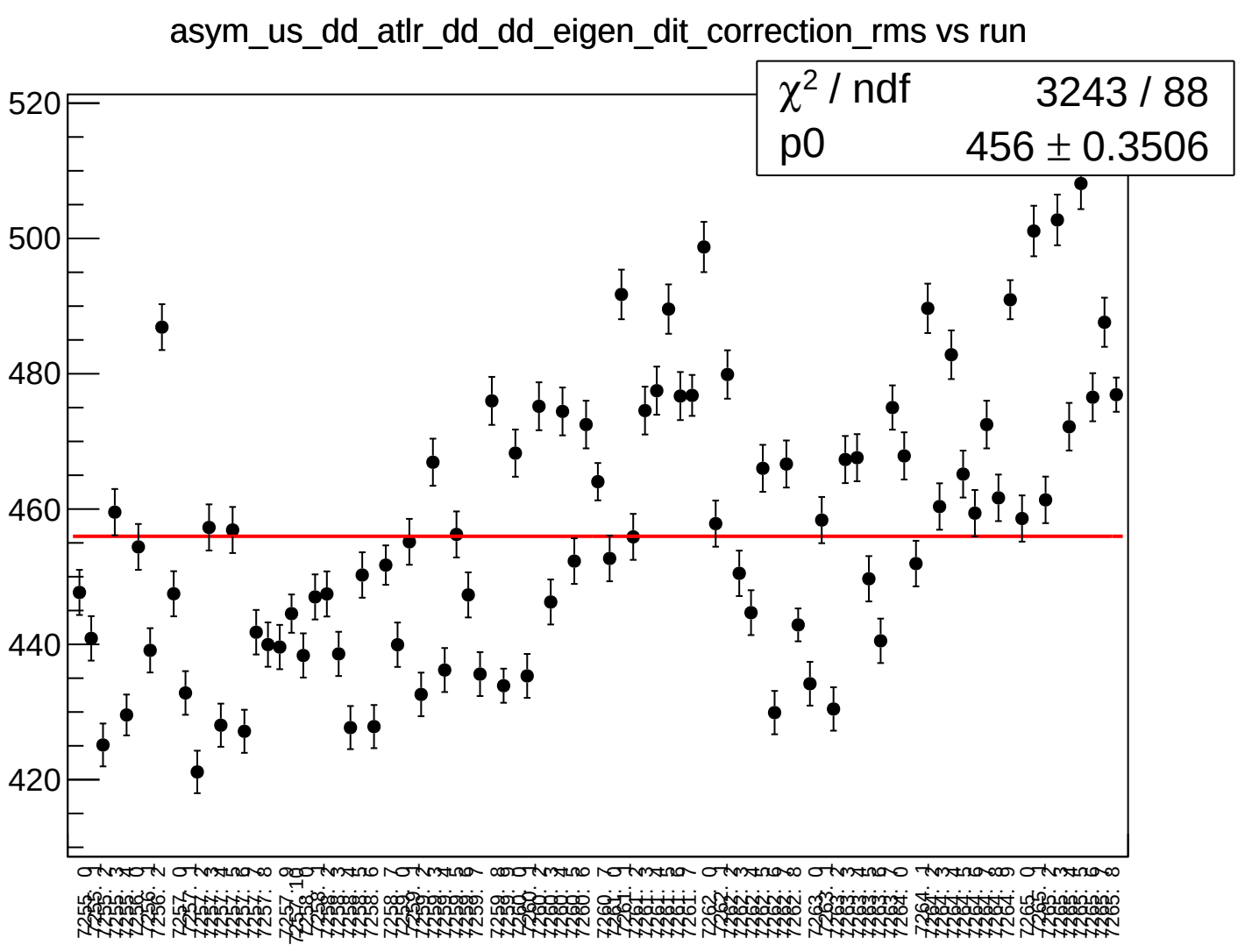

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 86.67 / 88
p0 227.1± 1157
pull
Entries 89
Mean 69.06
Std Dev 39.7

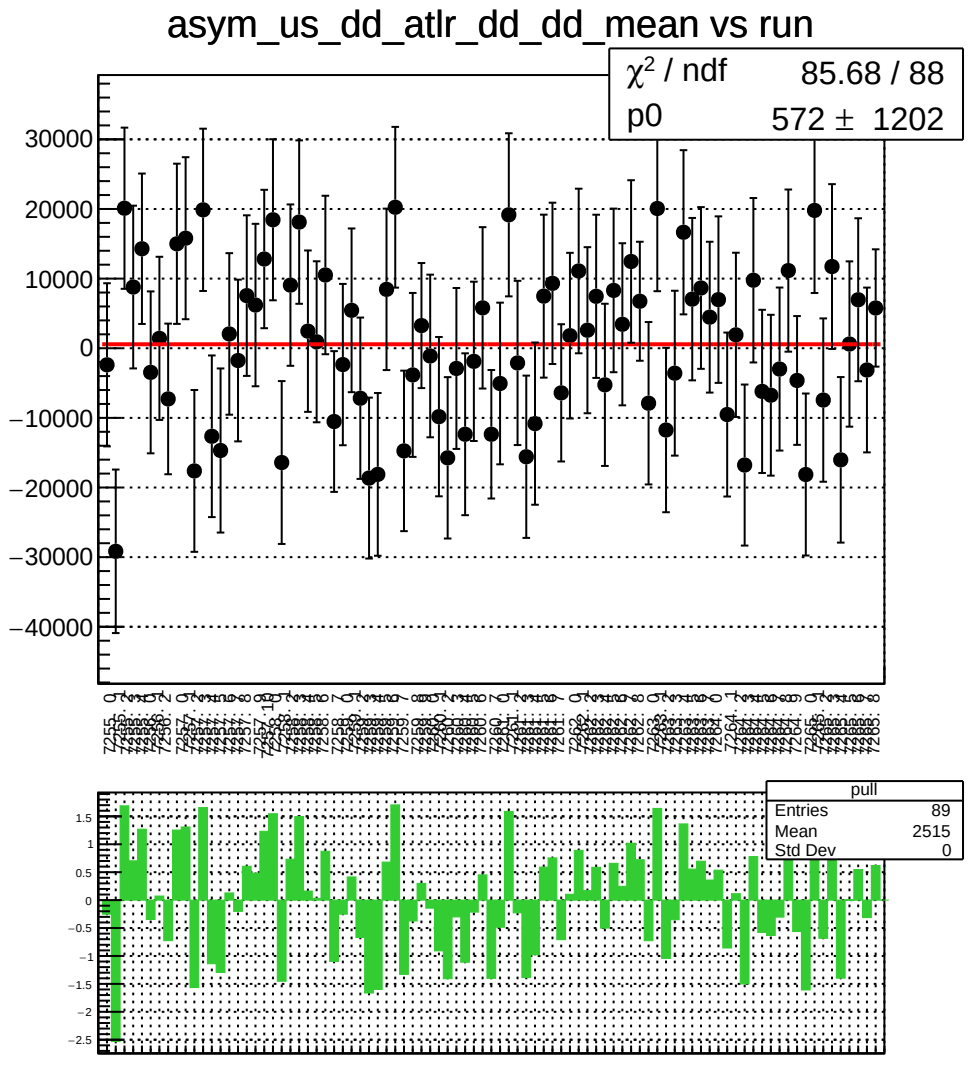

pull1D
Entries 89
Mean −0.003999
Std Dev 0.9868

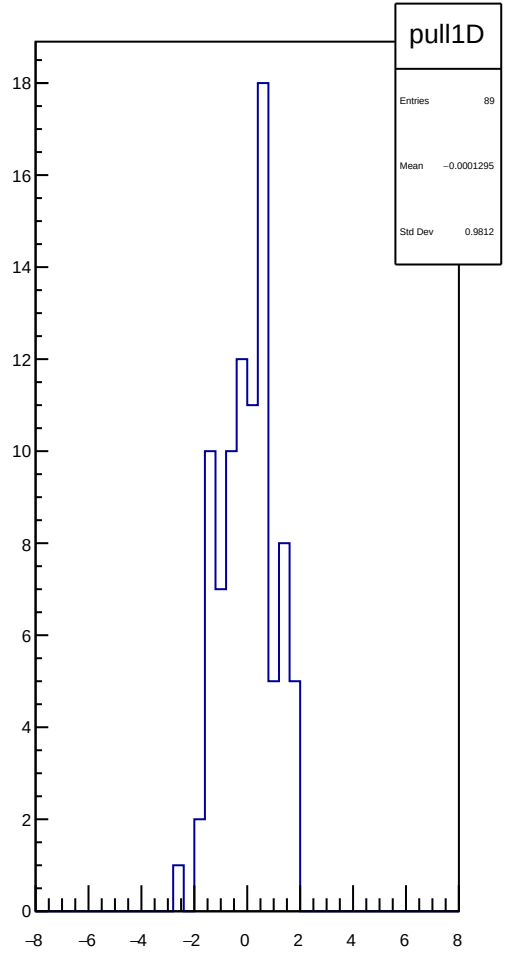

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 225.5 / 88
p0 1065 ± 0.8183
1100
1090
1080
1070
1060
1050
1040
1030

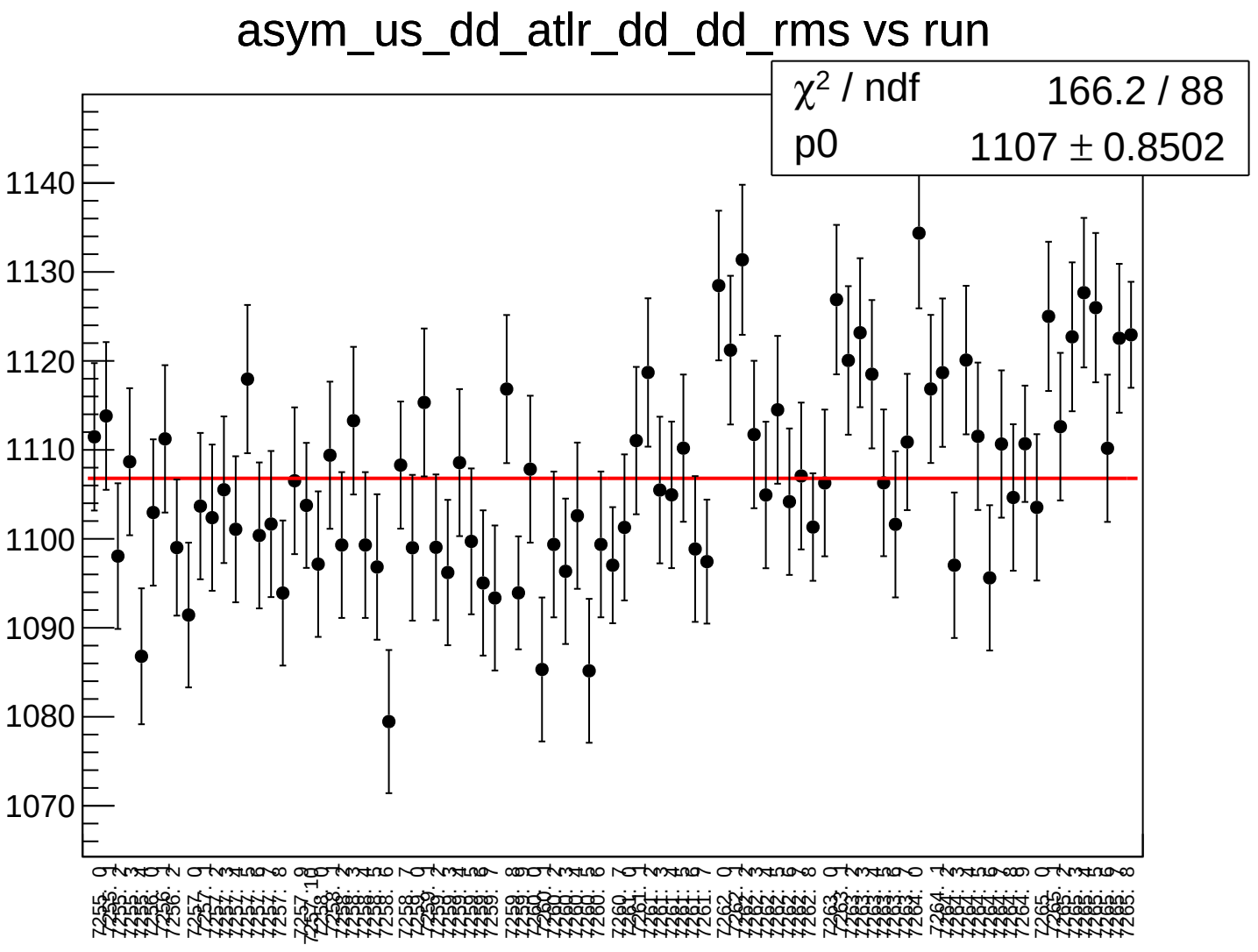

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 68.25 / 88
p0 −421.1 ± 495.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −799.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

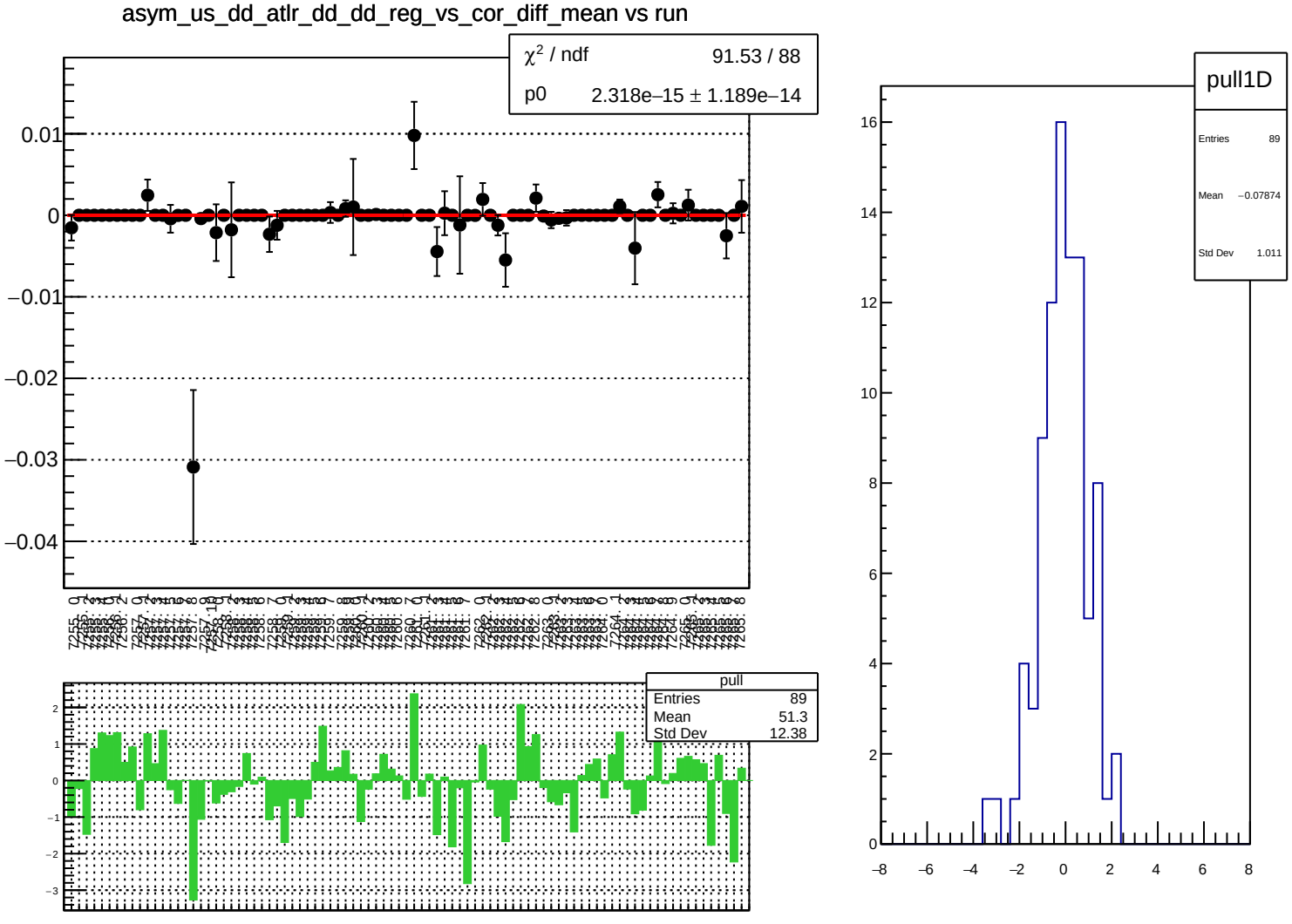

pull1D
Entries 89
Mean −0.0007726
Std Dev 0.8757
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

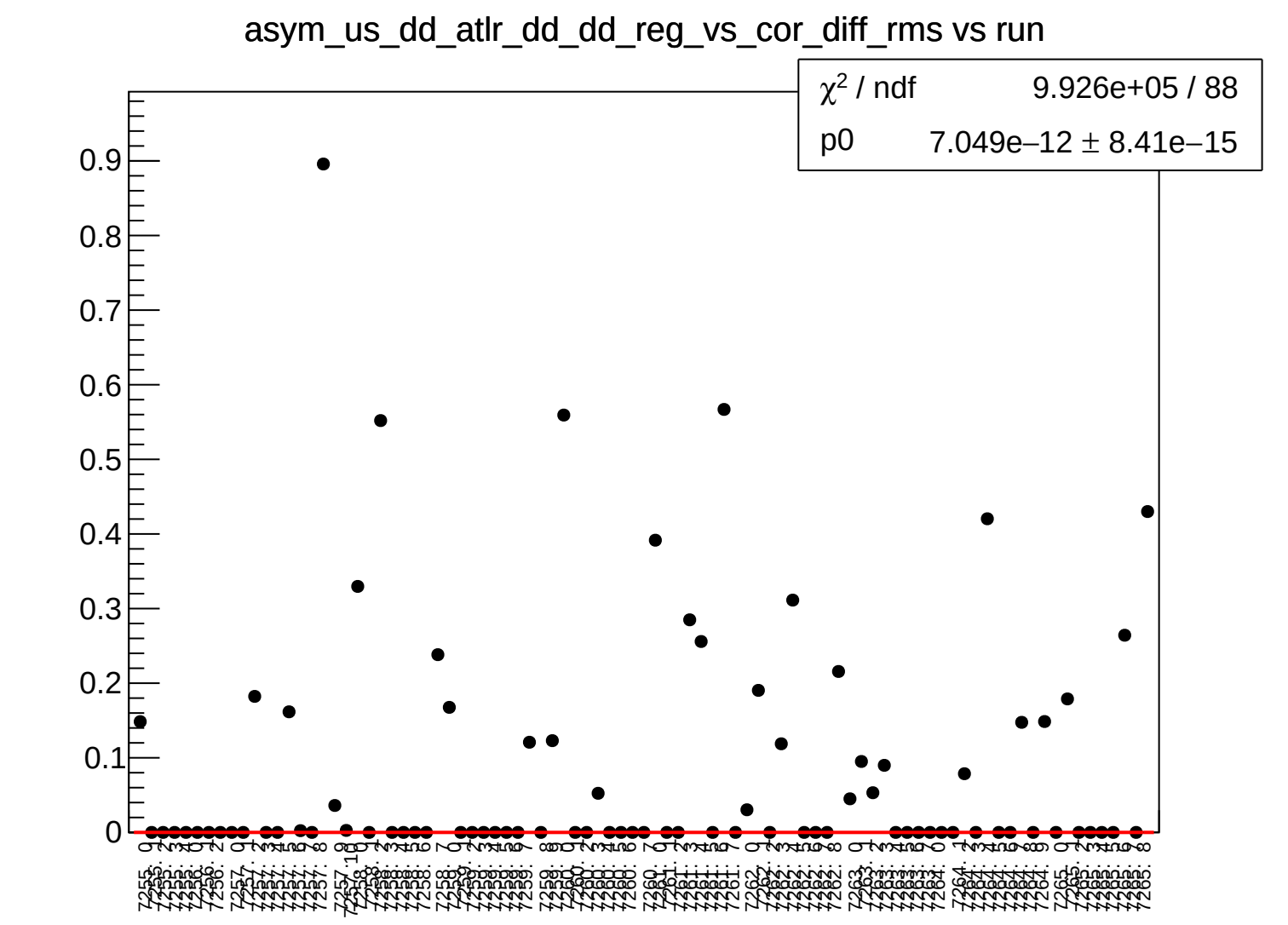

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3243 / 88
p0 456 ± 0.3506
520
500
480
460
440
420

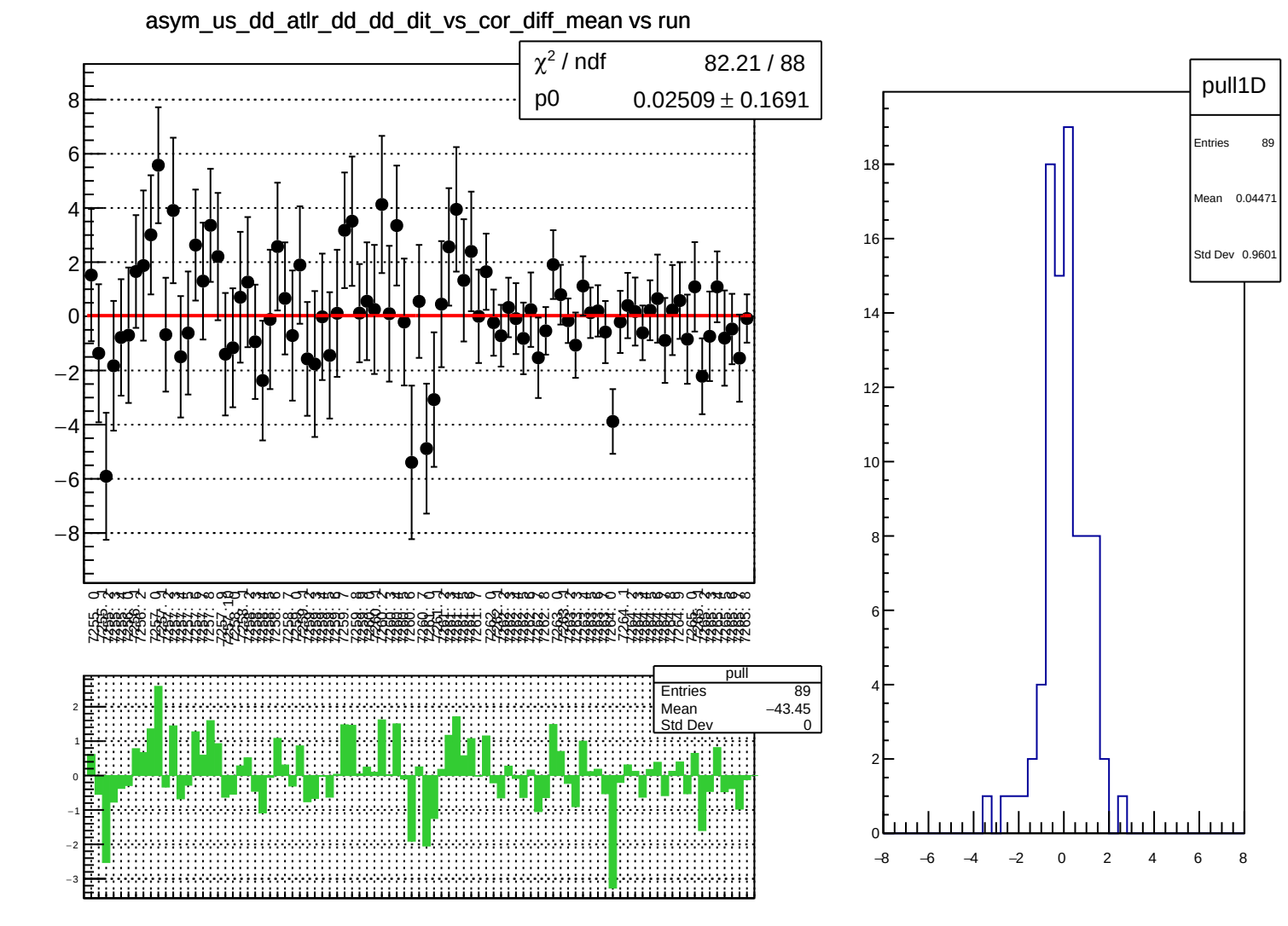

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 85.68 / 88
p0 572 ± 1202
pull
Entries 89
Mean 2515
Std Dev 0

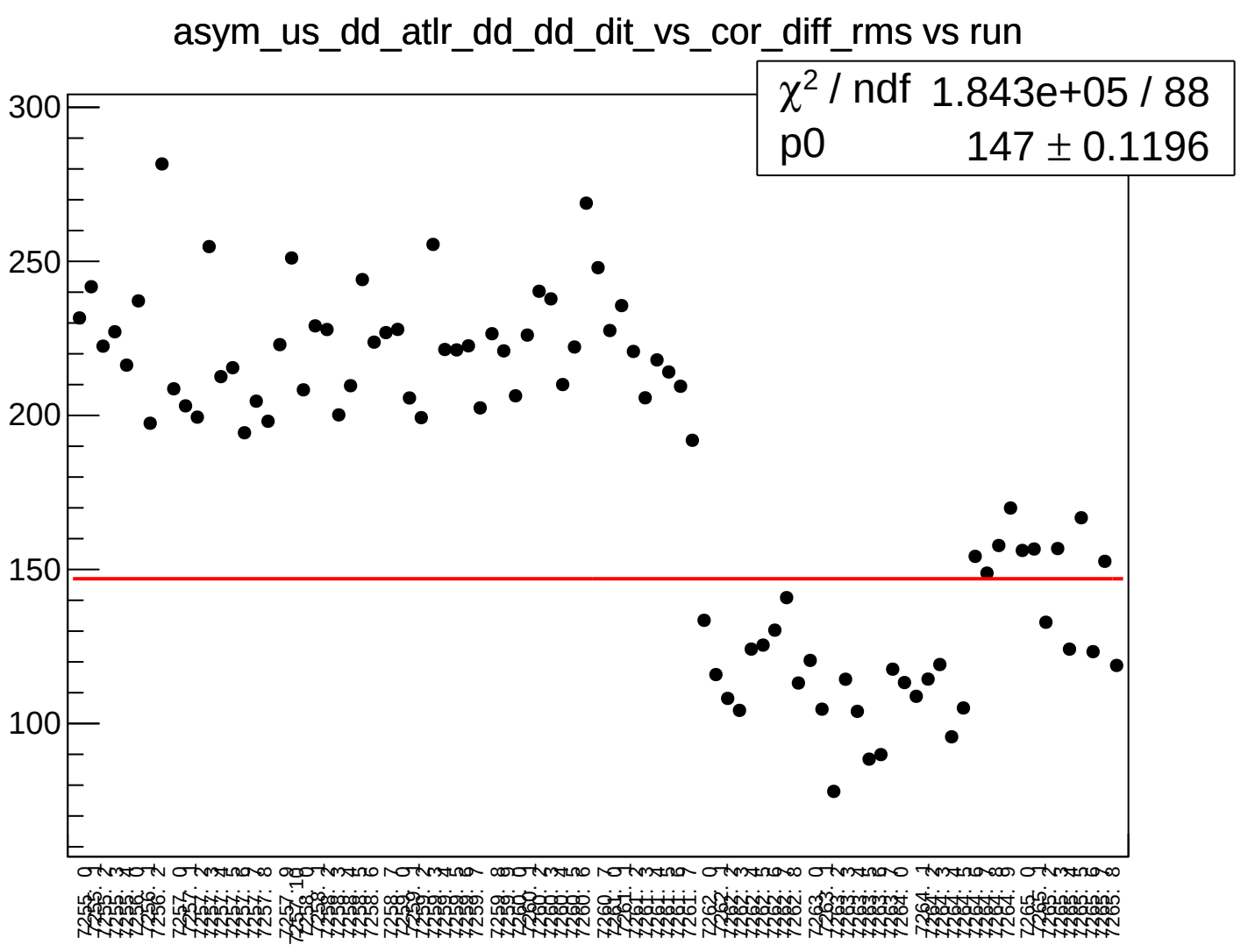

pull1D
Entries 89
Mean −0.0001295
Std Dev 0.9812

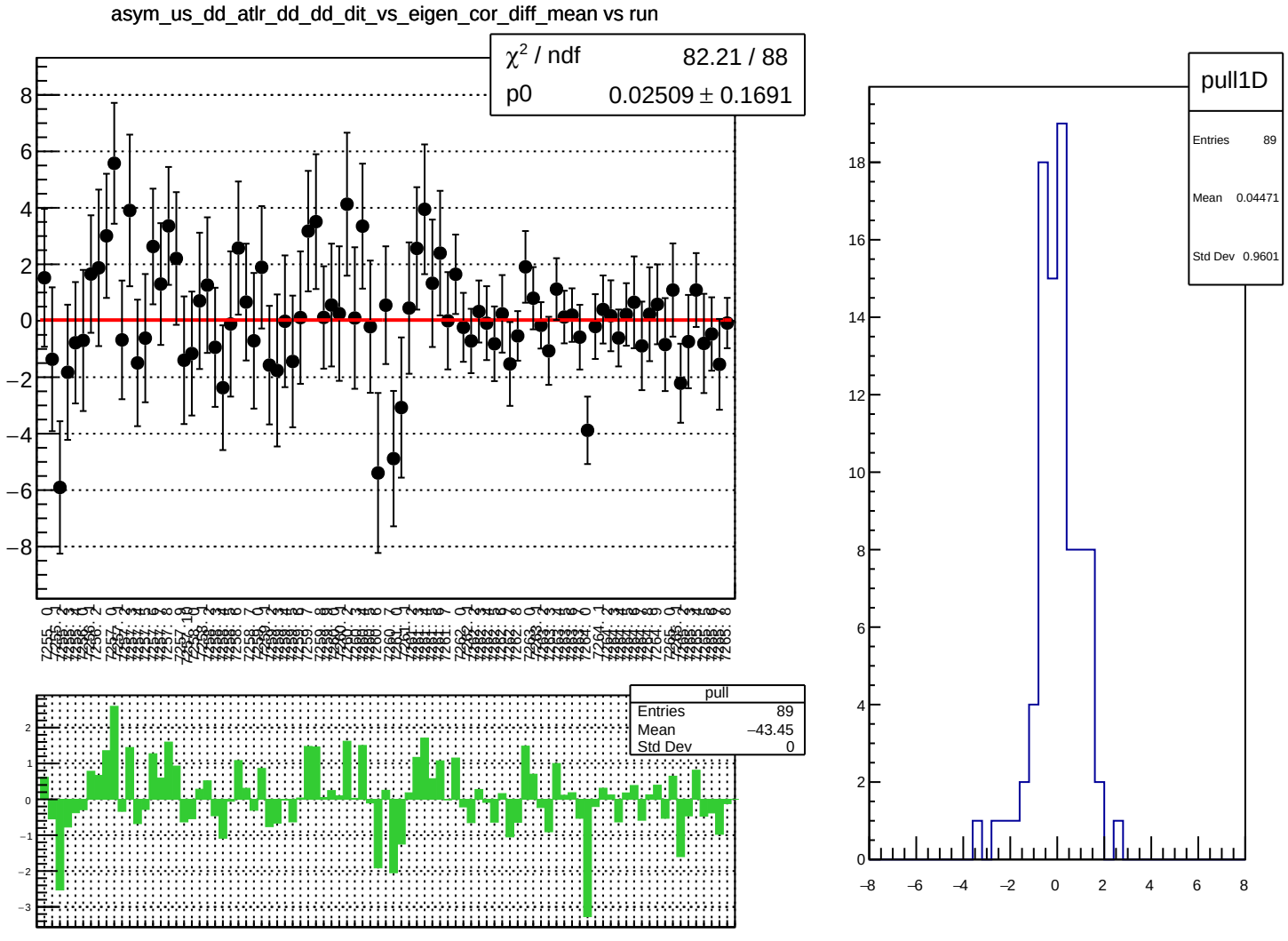

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 166.2 / 88
p0 1107 ± 0.8502
1140
1130
1120
1110
1100
1090
1080
1070

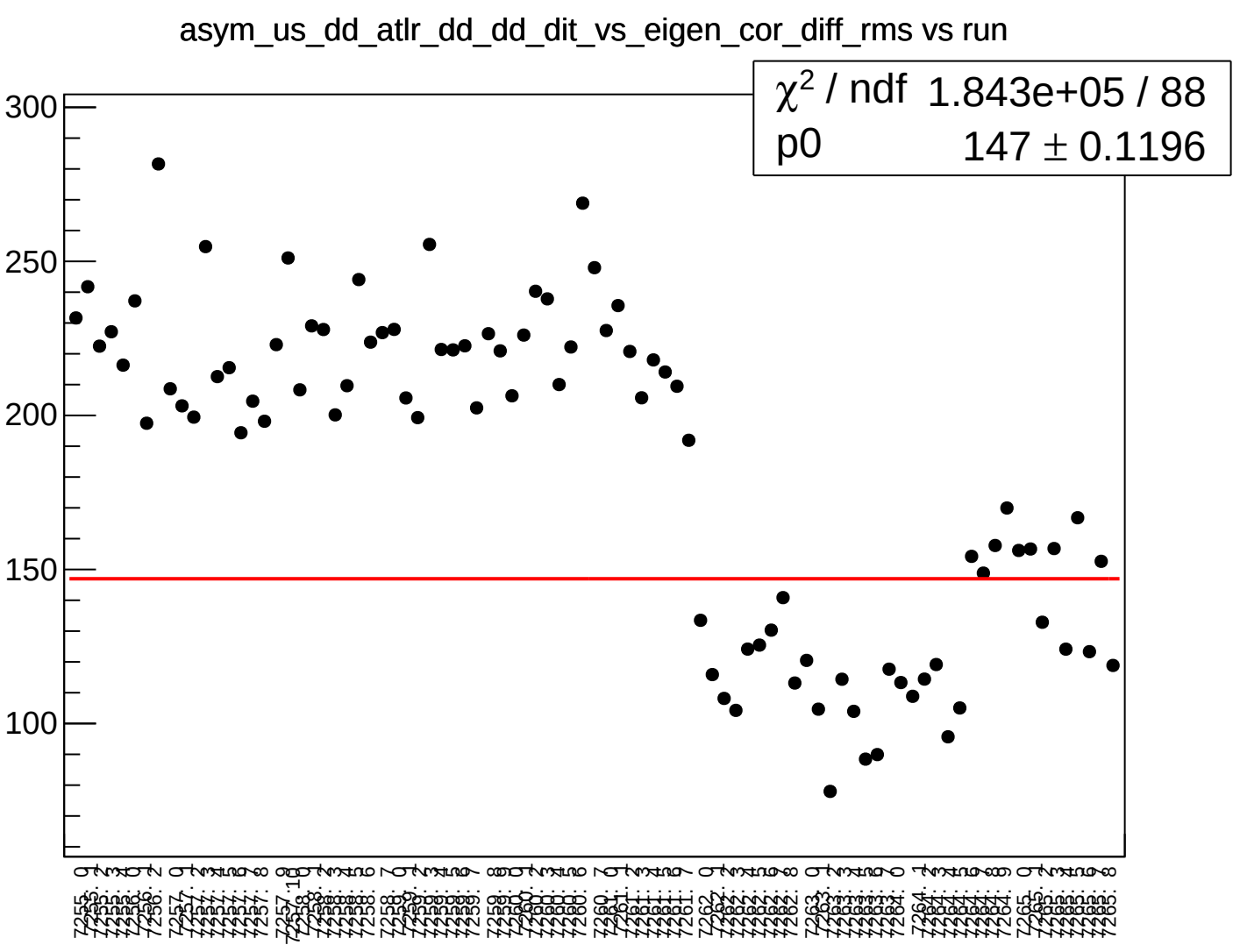

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.53 / 88
p0 2.318e−15 ± 1.189e−14
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 89
Mean 51.3
Std Dev 12.38
pull1D
Entries 89
Mean −0.07874
Std Dev 1.011

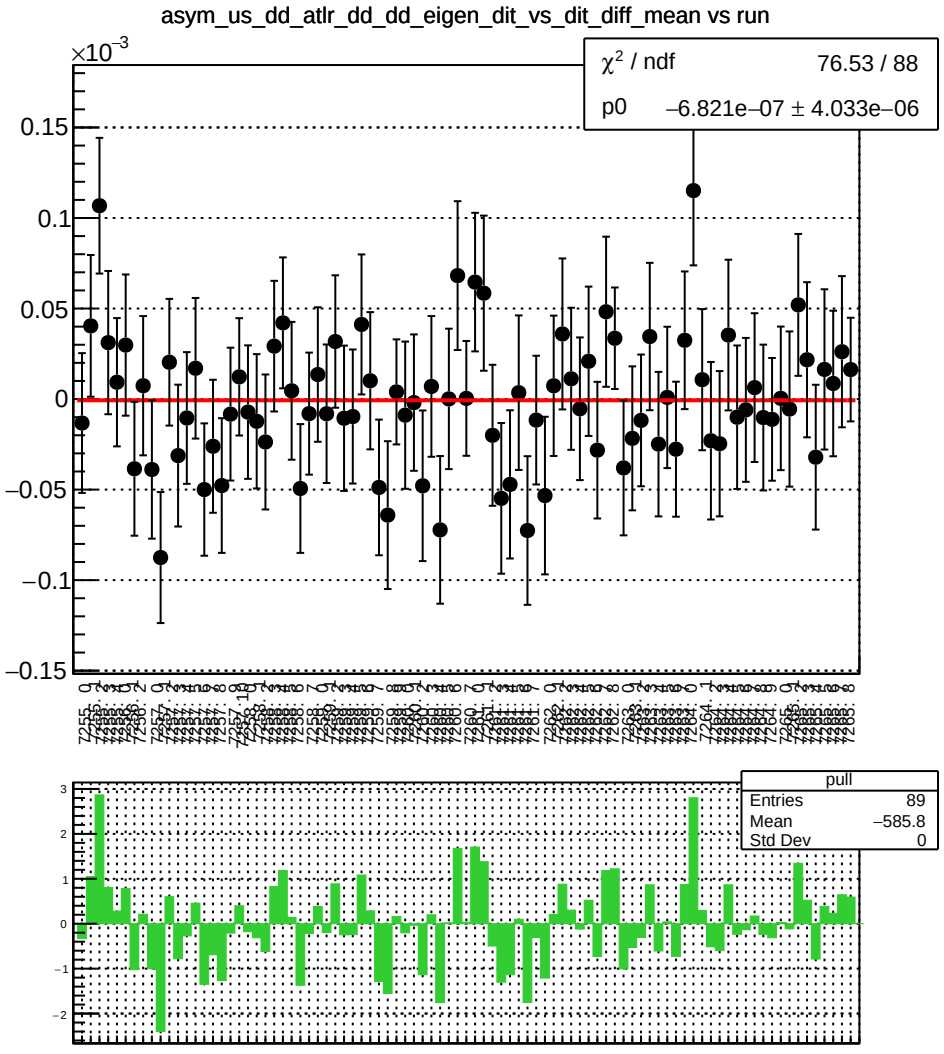

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.926e+05 / 88
p0 7.049e−12 ± 8.41e−15
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

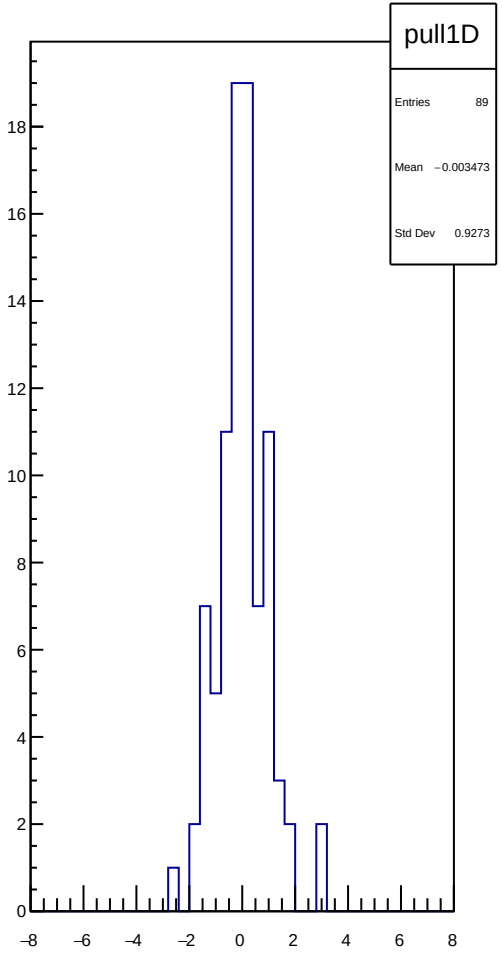

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.21 / 88
p0 0.02509 ± 0.1691
pull
Entries 89
Mean −43.45
Std Dev 0
pull1D
Entries 89
Mean 0.04471
Std Dev 0.9601

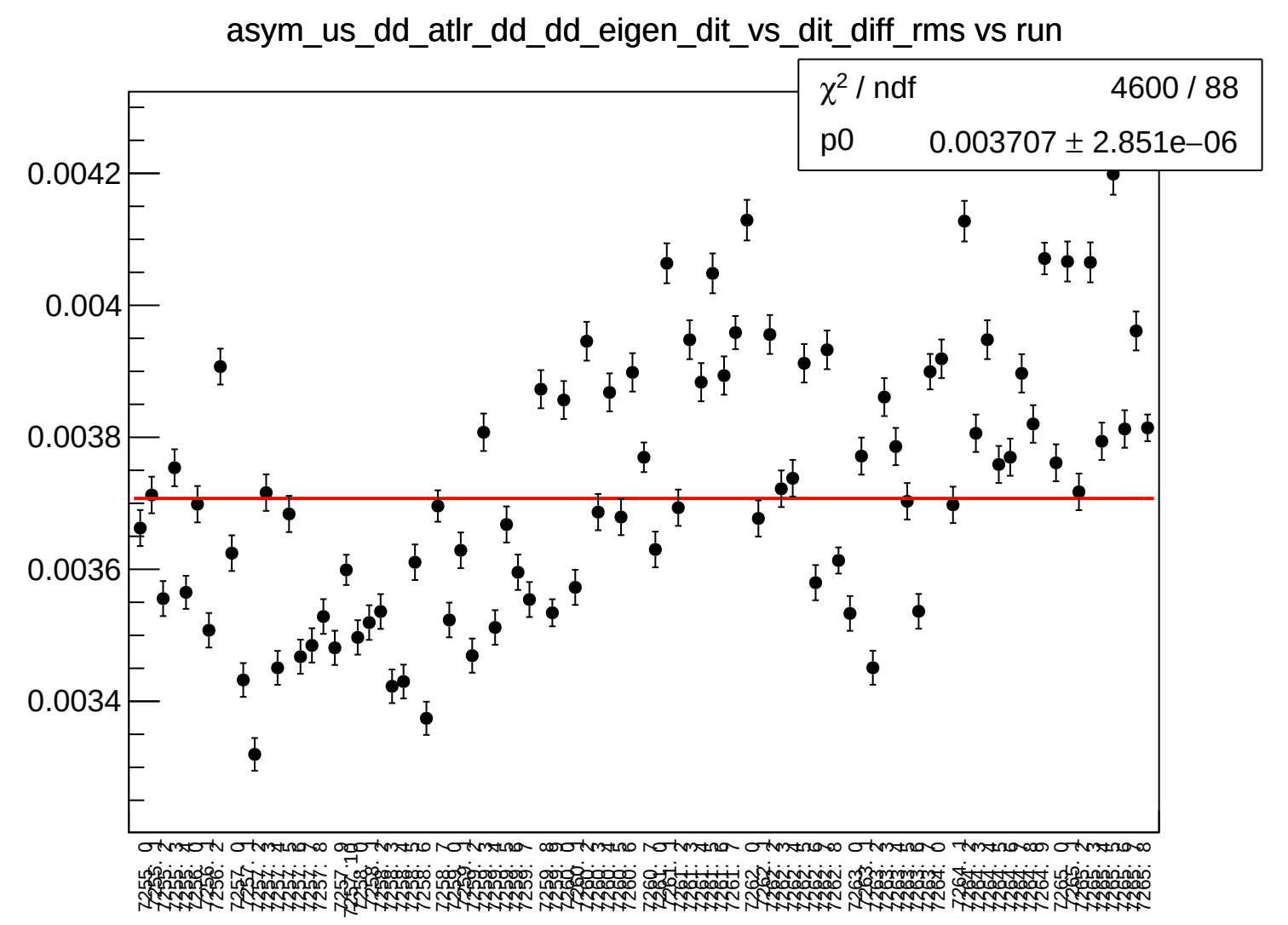

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.843e+05 / 88
p0 147 ± 0.1196
300
250
200
150
100

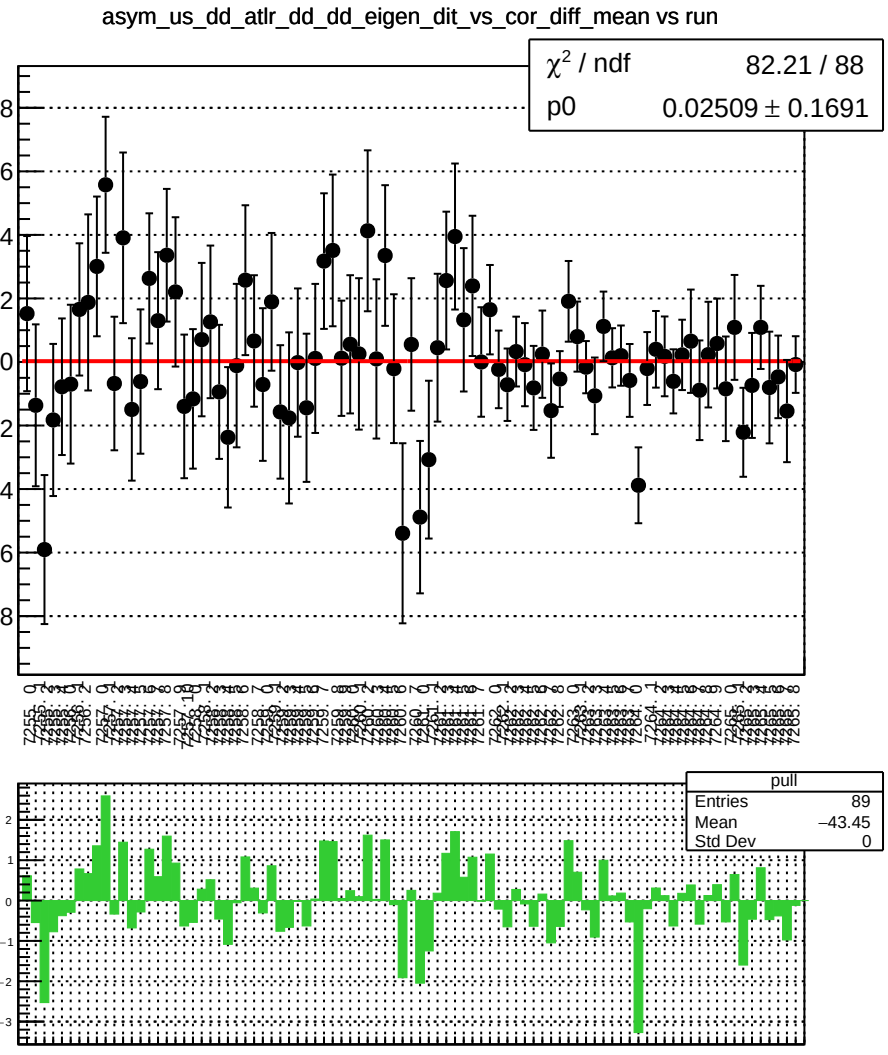

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.21 / 88
p0 0.02509 ± 0.1691
pull
Entries 89
Mean −43.45
Std Dev 0
pull1D
Entries 89
Mean 0.04471
Std Dev 0.9601

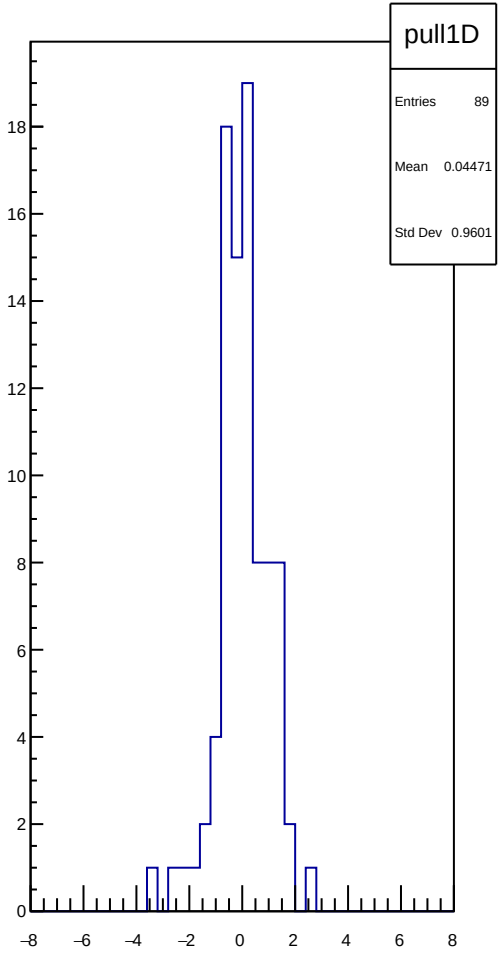

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.843e+05 / 88
p0 147 ± 0.1196
300
250
200
150
100

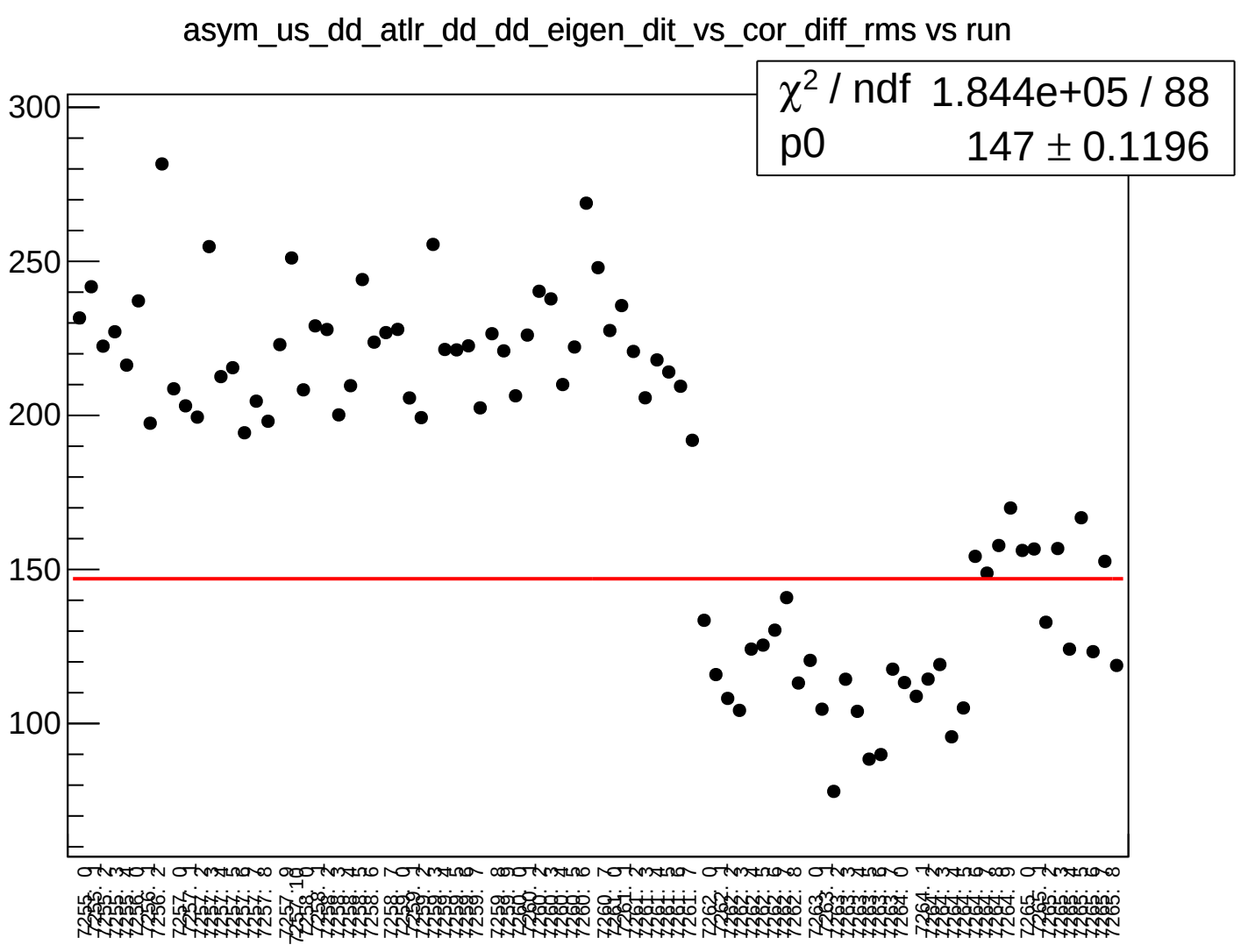

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.53 / 88
p0 −6.821e−07 ± 4.033e−06
pull
Entries 89
Mean −585.8
Std Dev 0

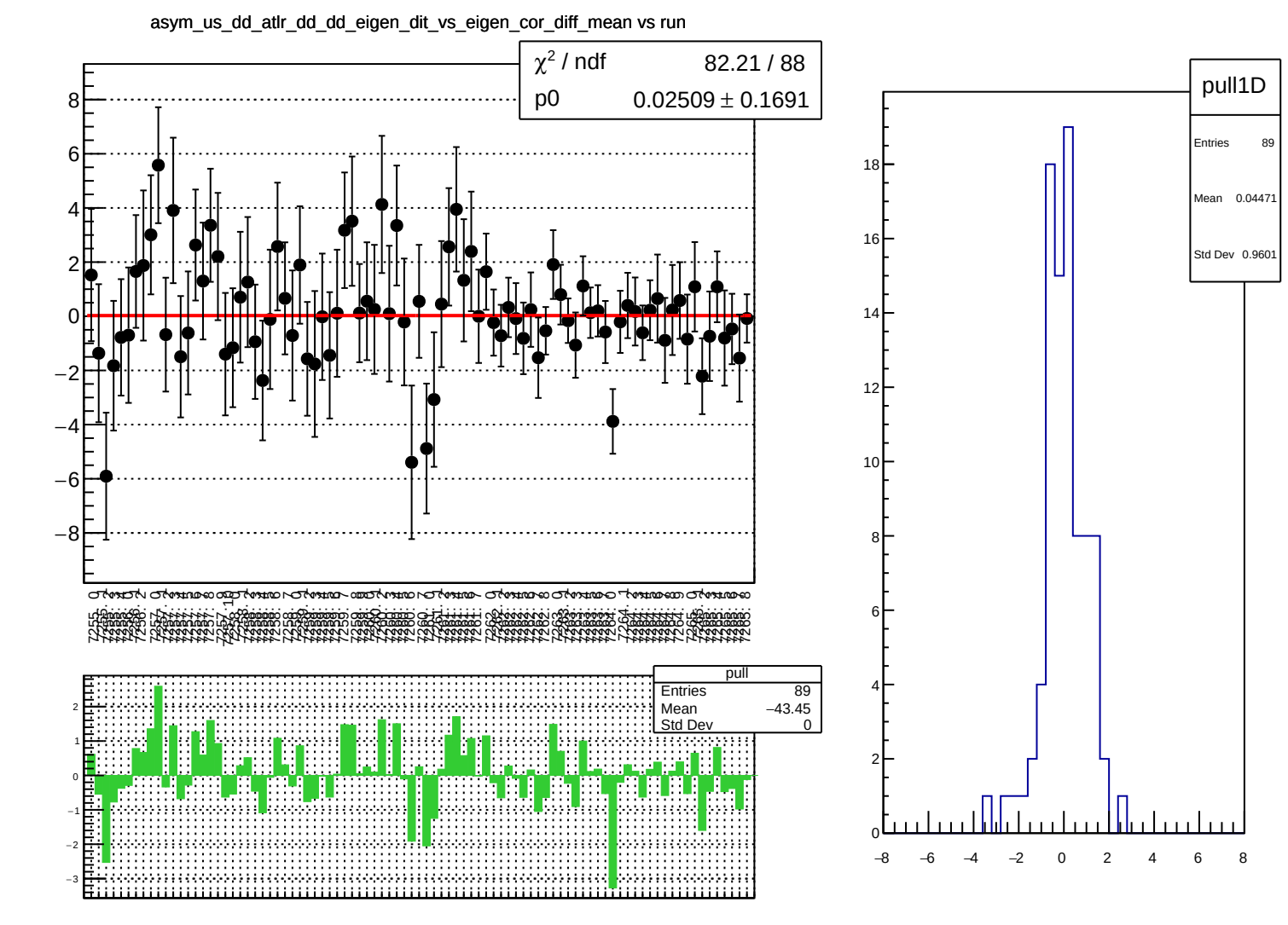

pull1D
Entries 89
Mean −0.003473
Std Dev 0.9273

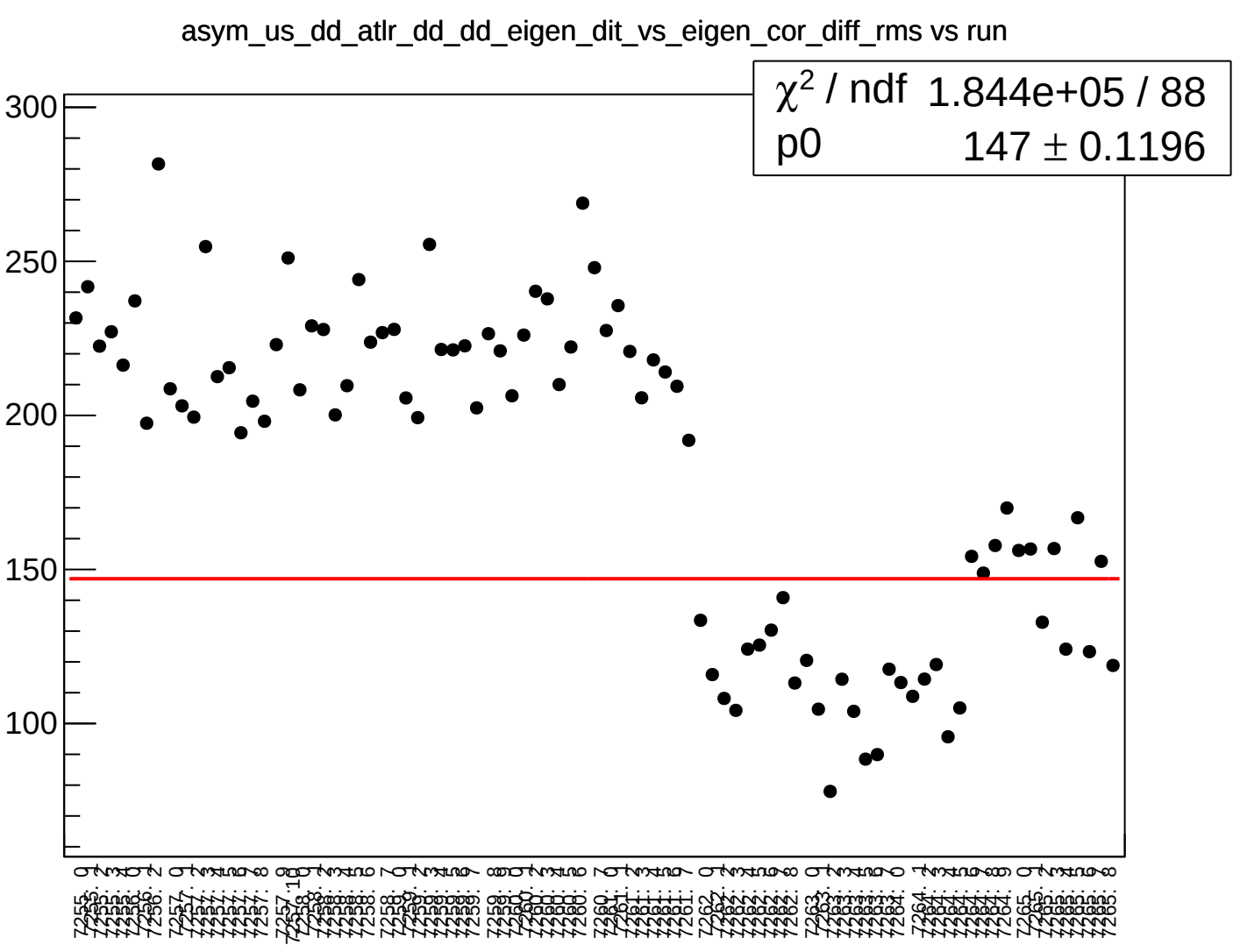

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4600 / 88
p0 0.003707 ± 2.851e−06
0.0042
0.004
0.0038
0.0036
0.0034

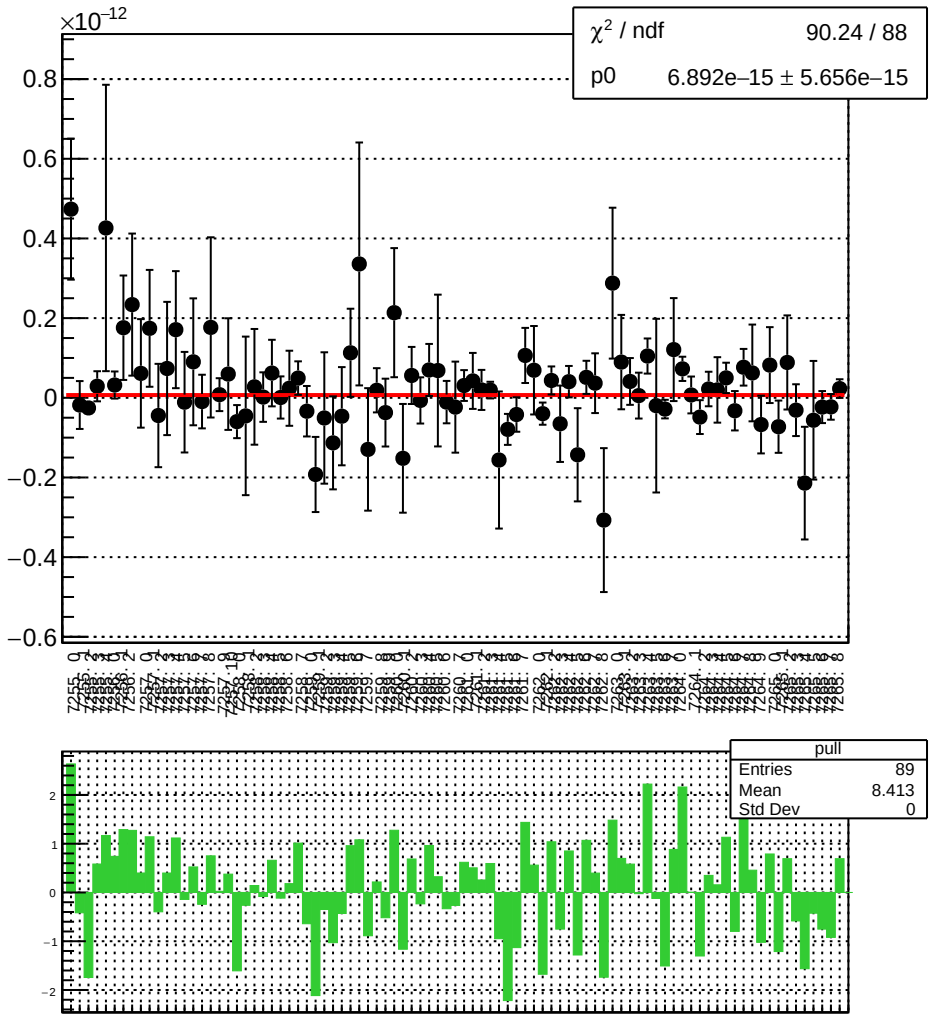

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.21 / 88
p0 0.02509 ± 0.1691
pull
Entries 89
Mean −43.45
Std Dev 0

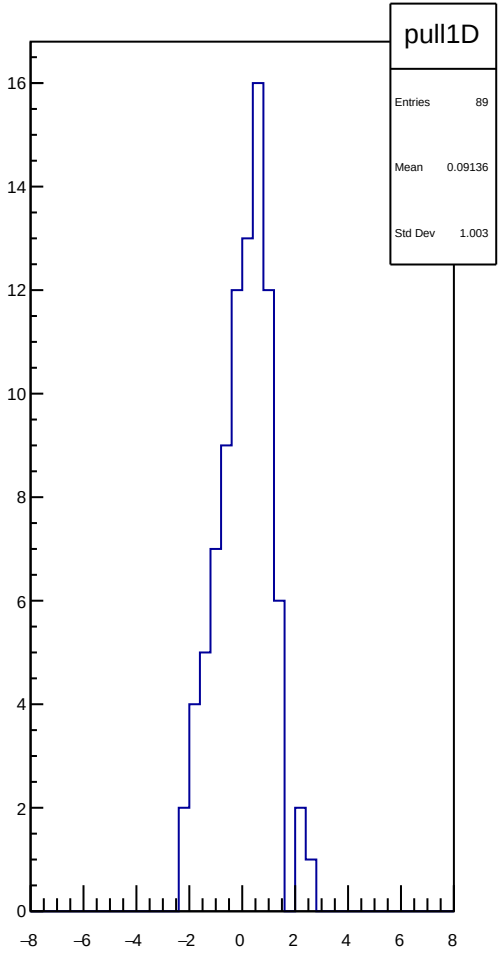

pull1D
Entries 89
Mean 0.04471
Std Dev 0.9601

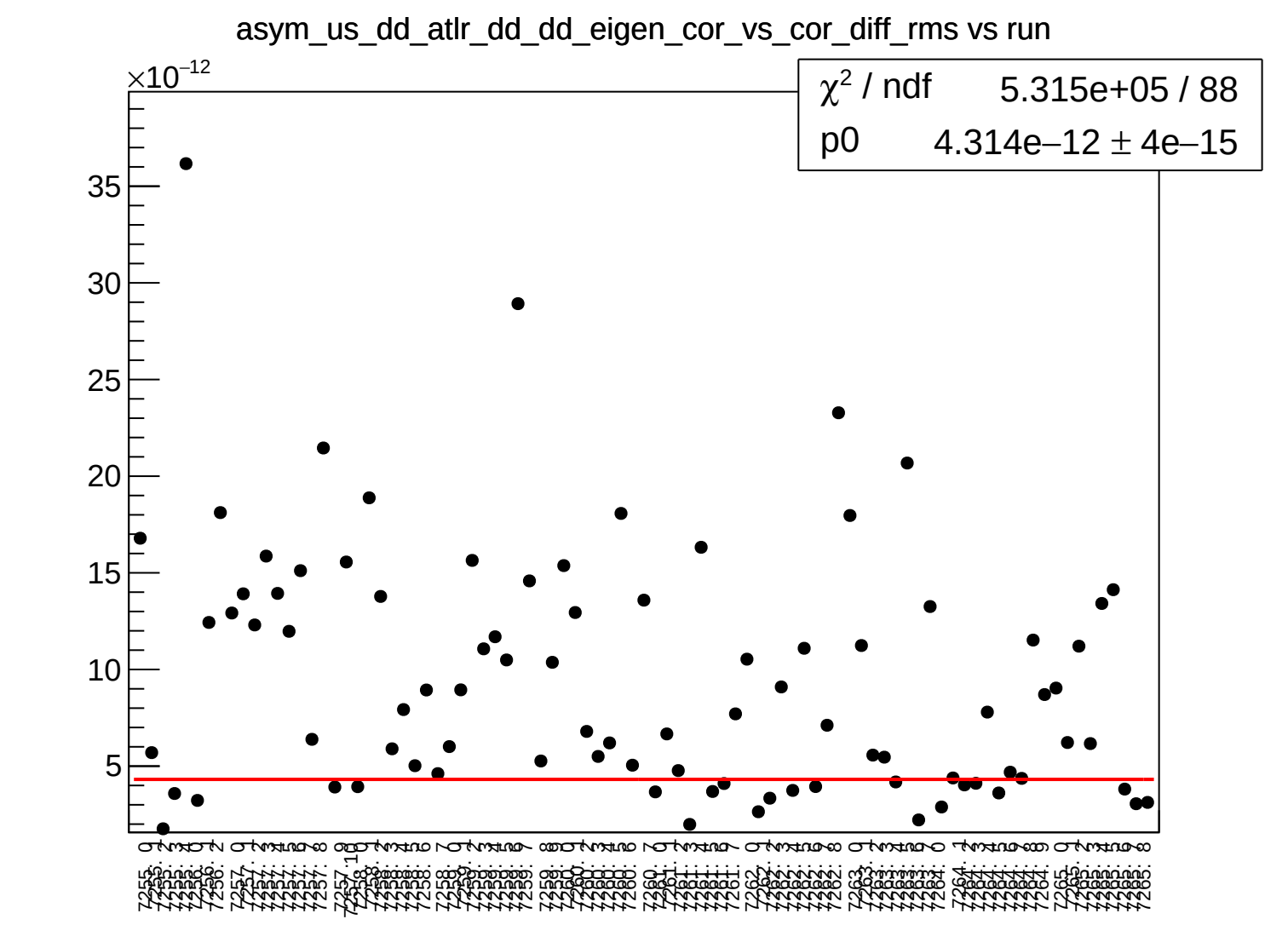

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.844e+05 / 88
p0 147 ± 0.1196
300
250
200
150
100

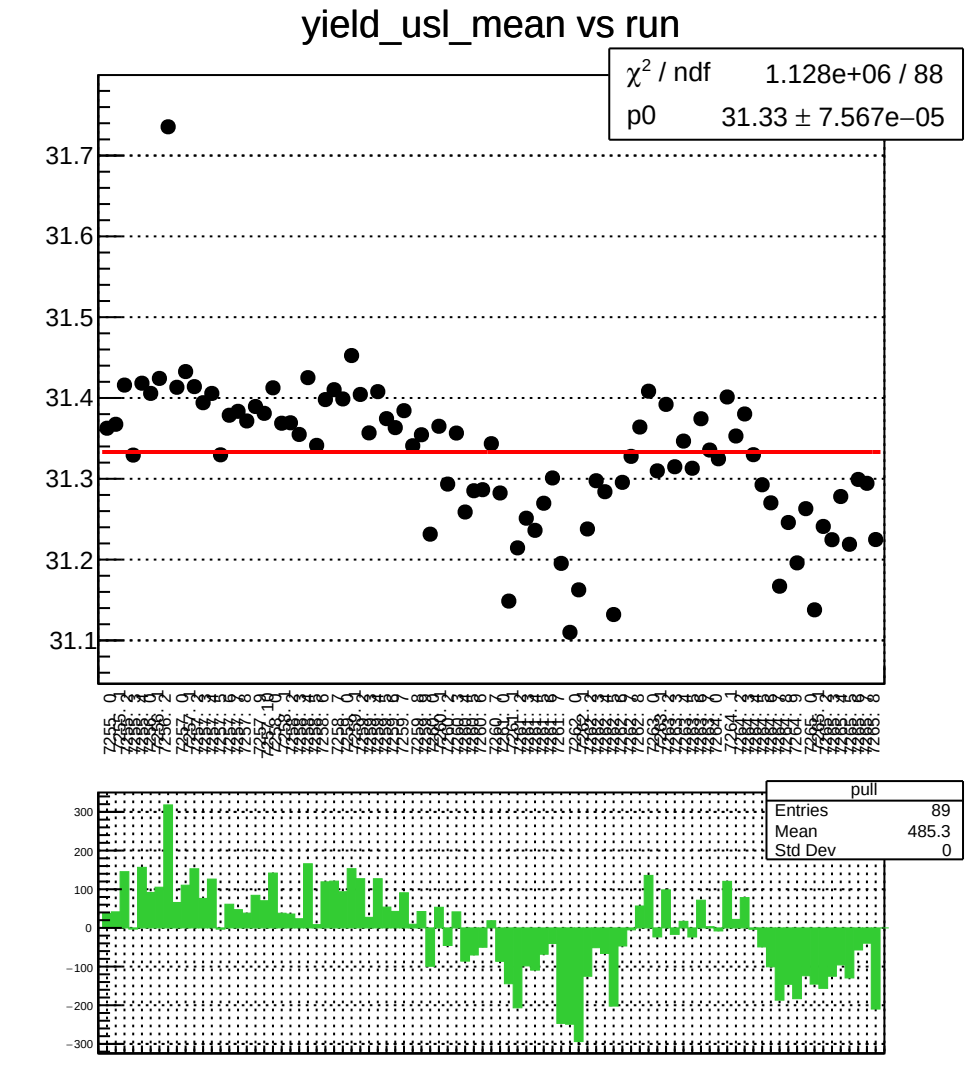

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.21 / 88
p0 0.02509 ± 0.1691
pull
Entries 89
Mean −43.45
Std Dev 0
pull1D
Entries 89
Mean 0.04471
Std Dev 0.9601

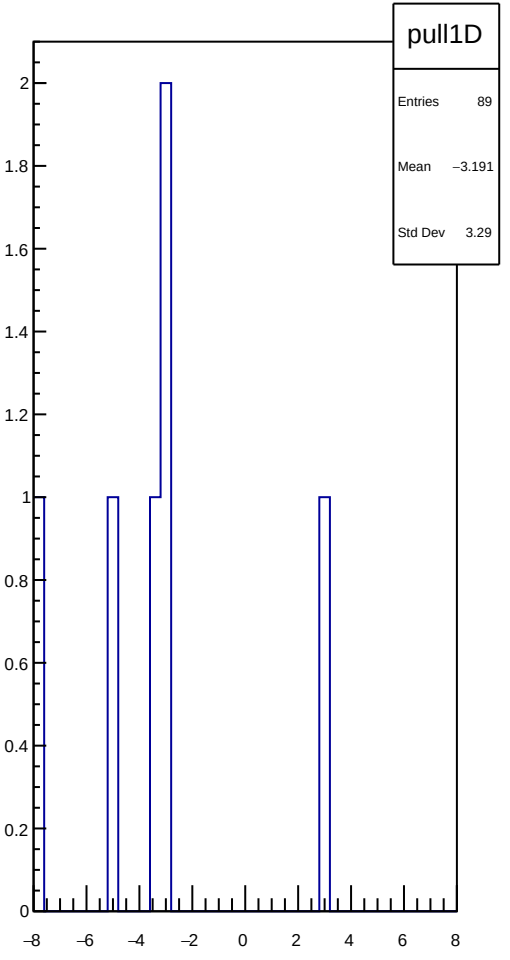

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.844e+05 / 88
p0 147 ± 0.1196
300
250
200
150
100

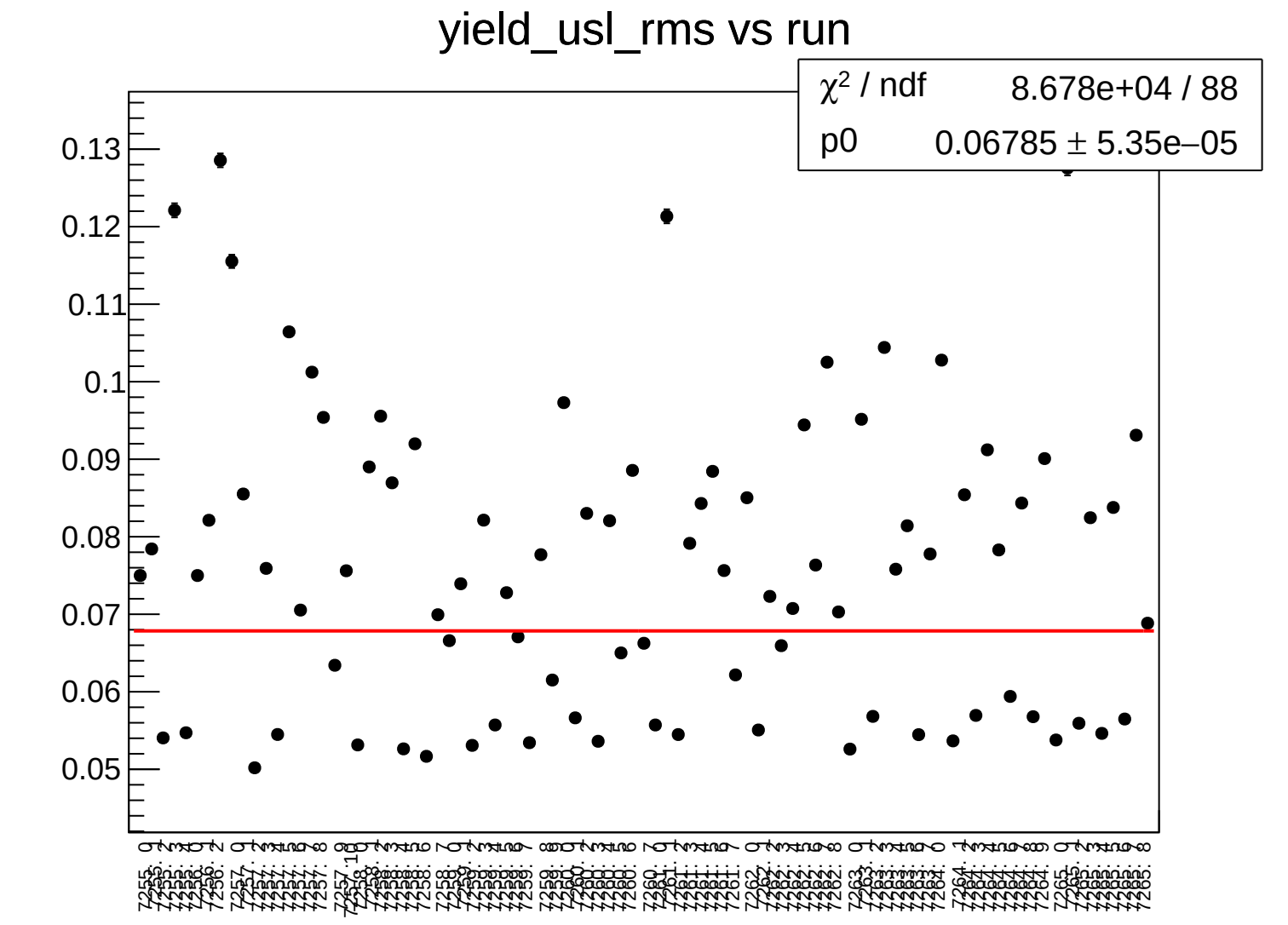

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.24 / 88
p0 6.892e−15 ± 5.656e−15
pull
Entries 89
Mean 8.413
Std Dev 0

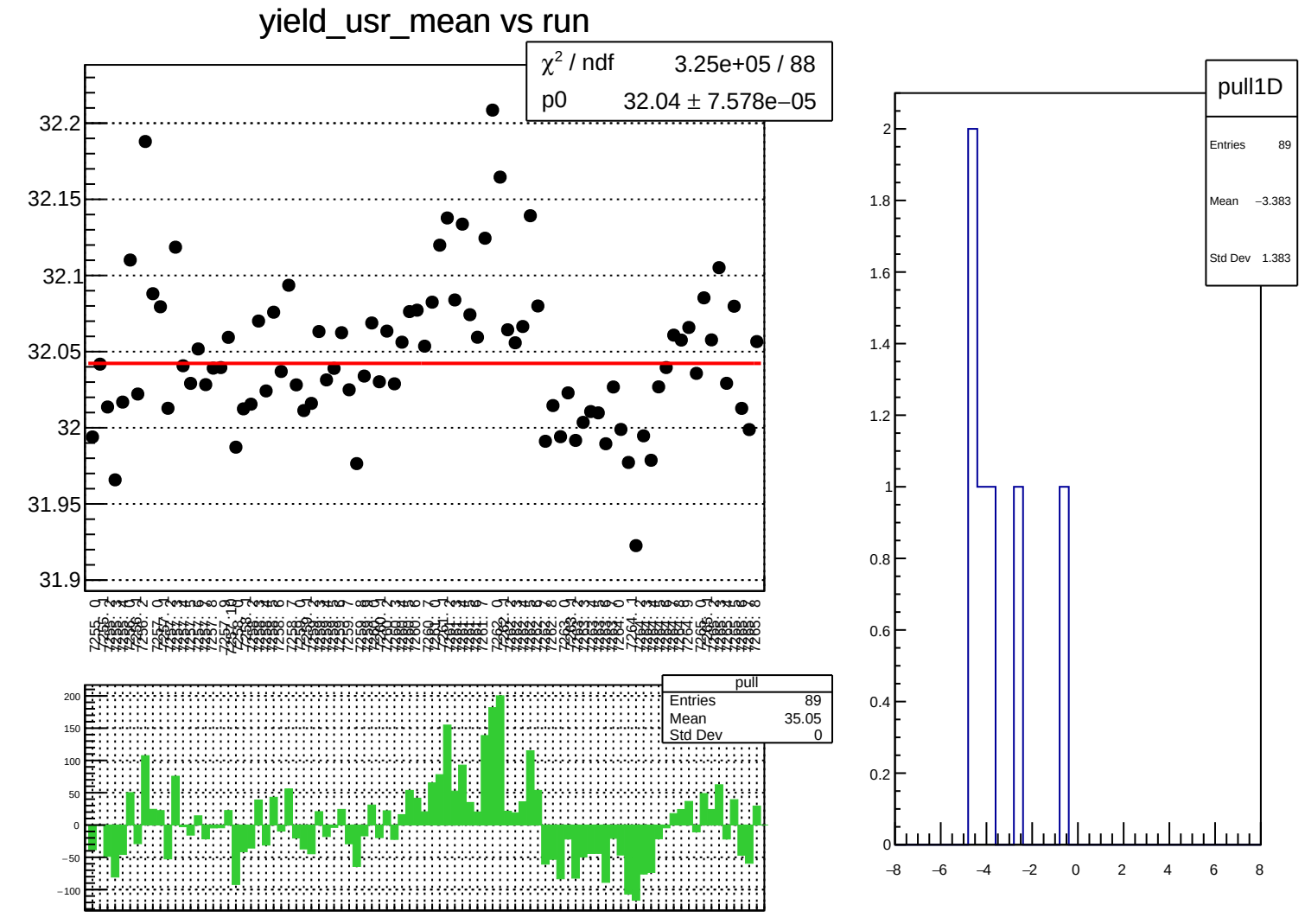

pull1D
Entries 89
Mean 0.09136
Std Dev 1.003

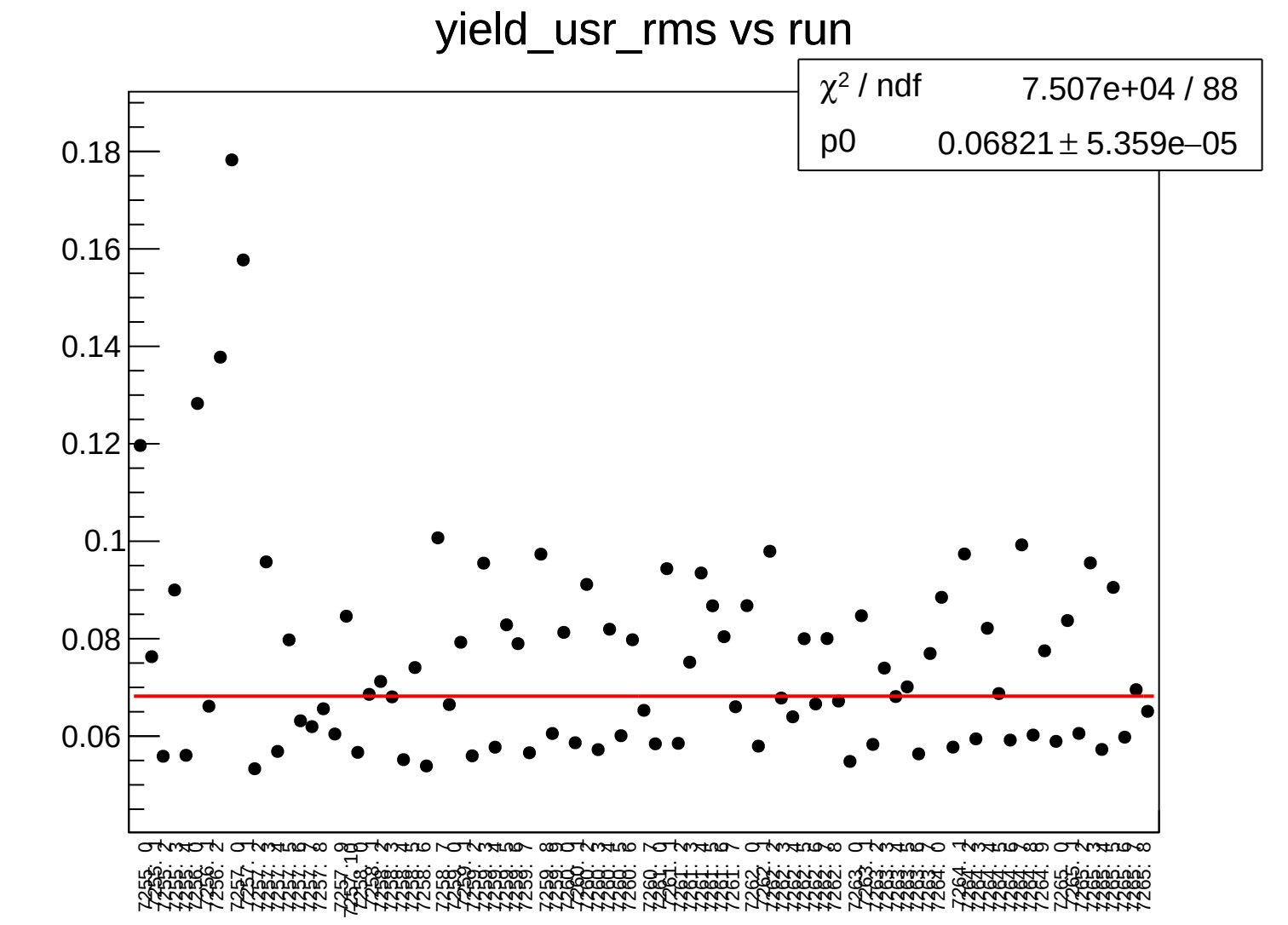

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.315e+05 / 88
p0 4.314e−12 ± 4e−15
35
30
25
20
15
10
5

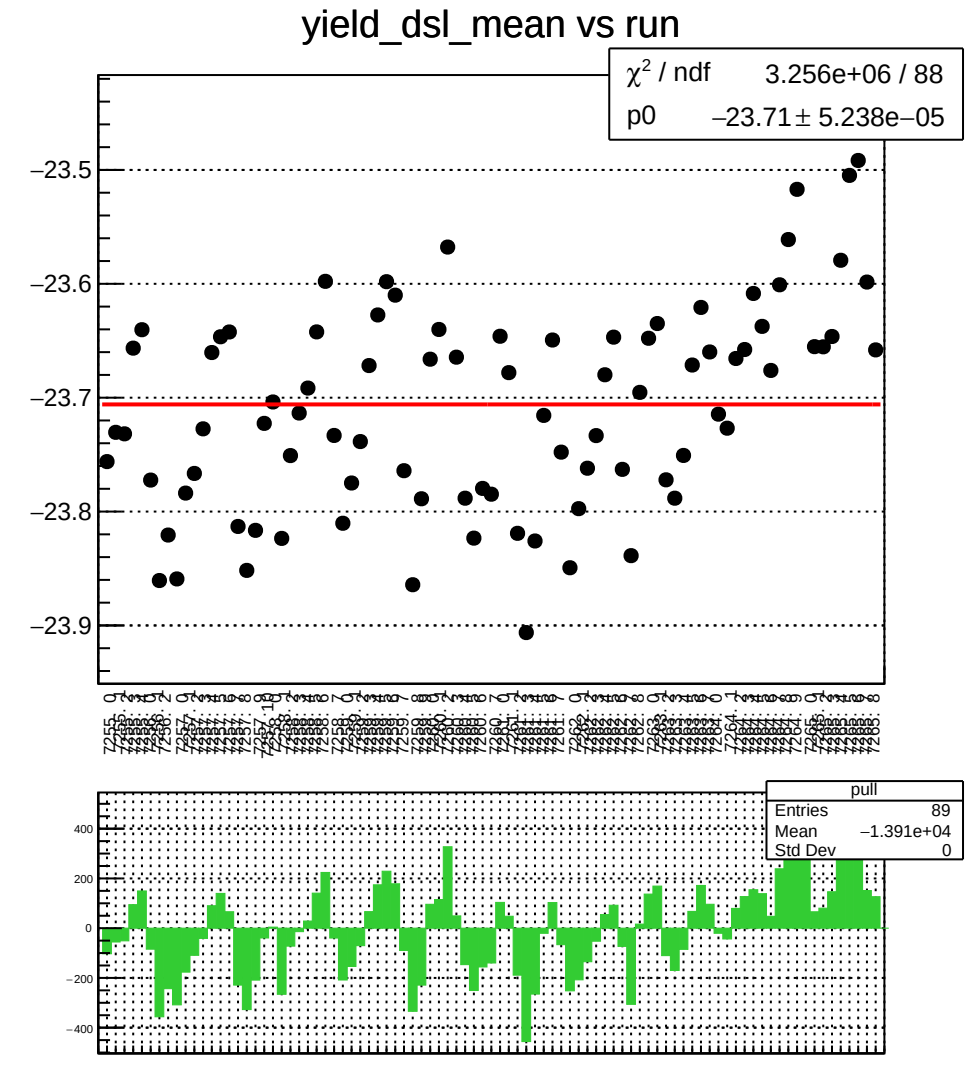

yield_usl_mean vs run
χ² / ndf 1.128e+06 / 88
p0 31.33 ± 7.567e−05
31.7
31.6
31.5
31.4
31.3
31.2
31.1
pull
Entries 89
Mean 485.3
Std Dev 0
300
200
100
0
−100
−200
−300

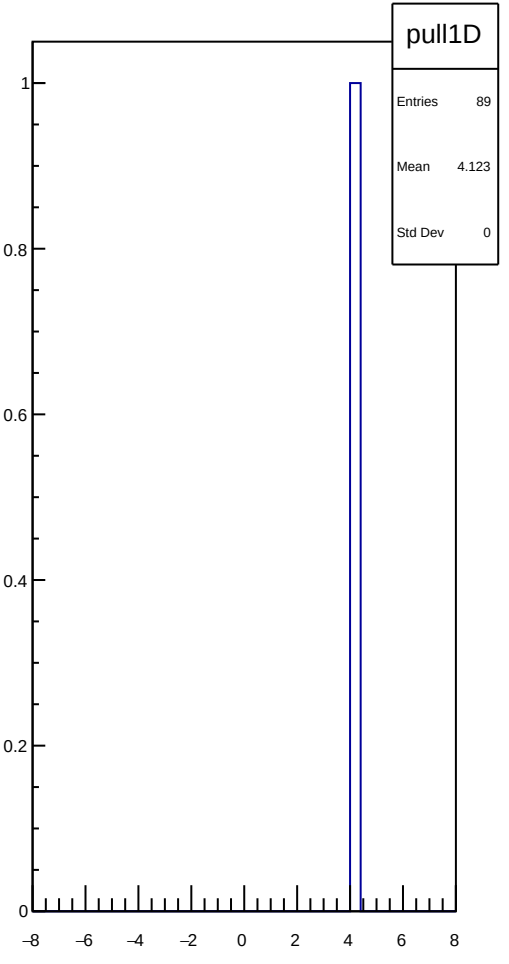

pull1D
Entries 89
Mean −3.191
Std Dev 3.29
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

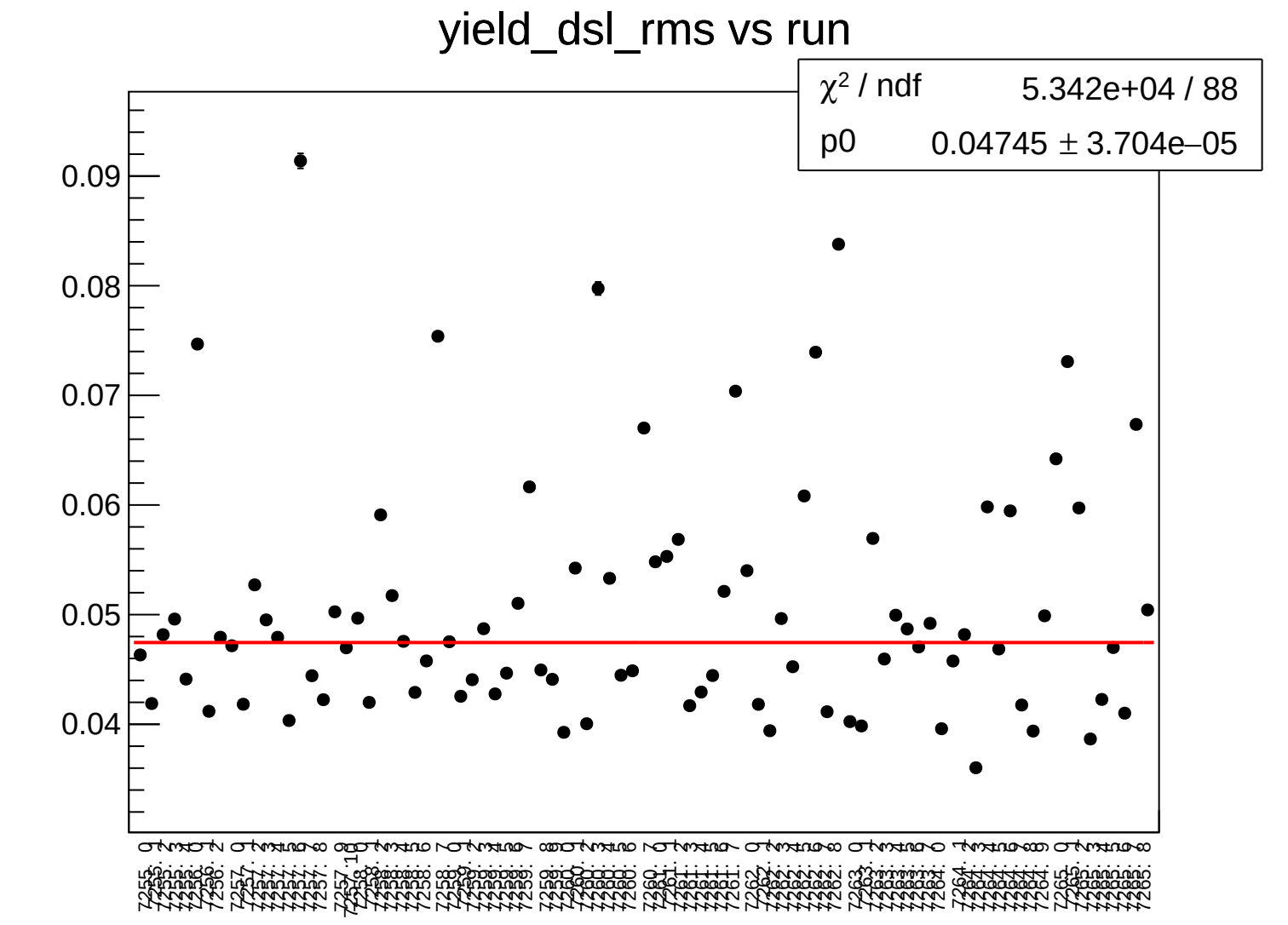

yield_usl_rms vs run
χ² / ndf 8.678e+04 / 88
p0 0.06785 ± 5.35e−05
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05

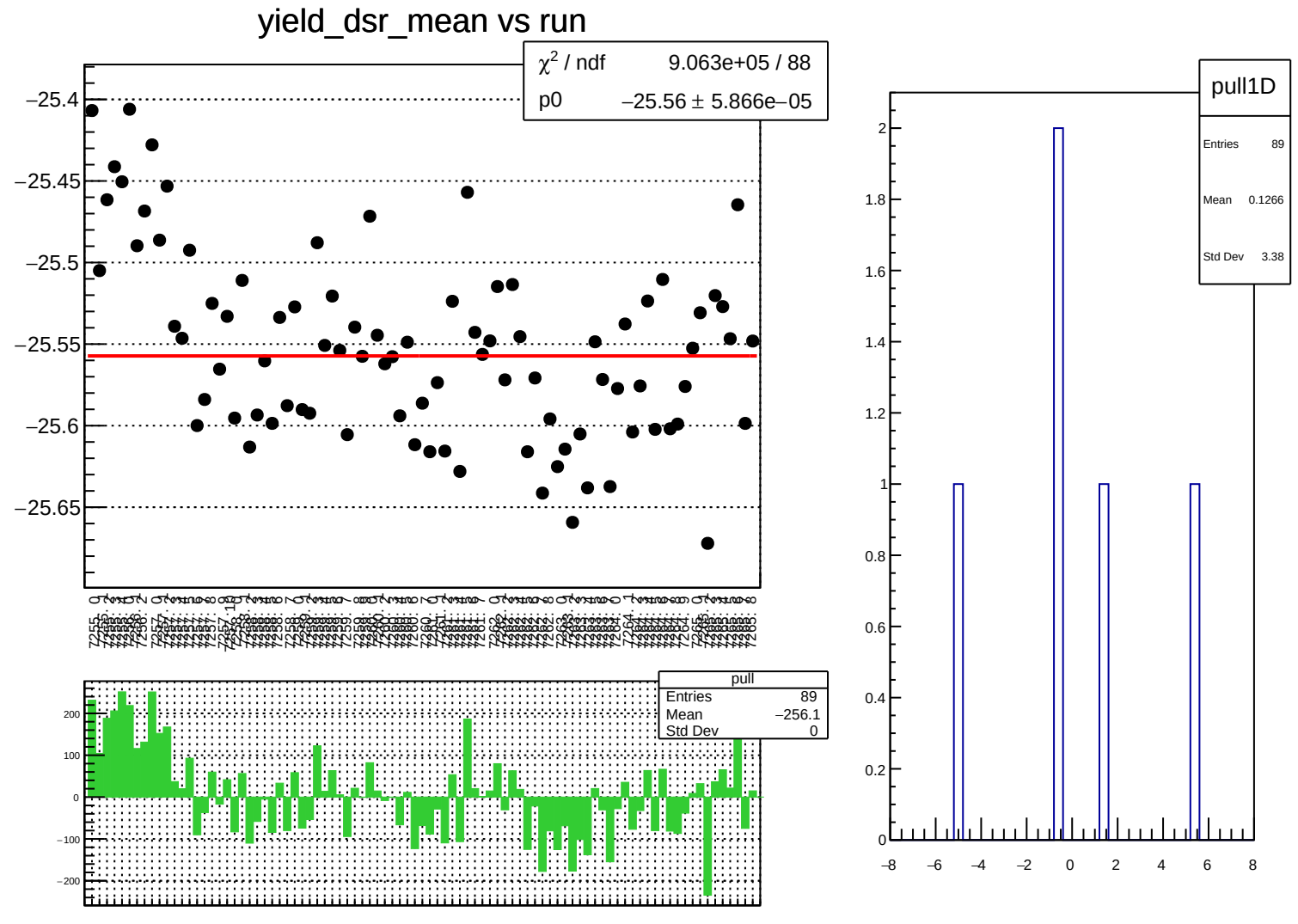

yield_usr_mean vs run
χ² / ndf 3.25e+05 / 88
p0 32.04 ± 7.578e−05
32.2
32.15
32.1
32.05
32
31.95
31.9
pull
Entries 89
Mean 35.05
Std Dev 0
200
150
100
50
0
−50
−100
pull1D
Entries 89
Mean −3.383
Std Dev 1.383
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

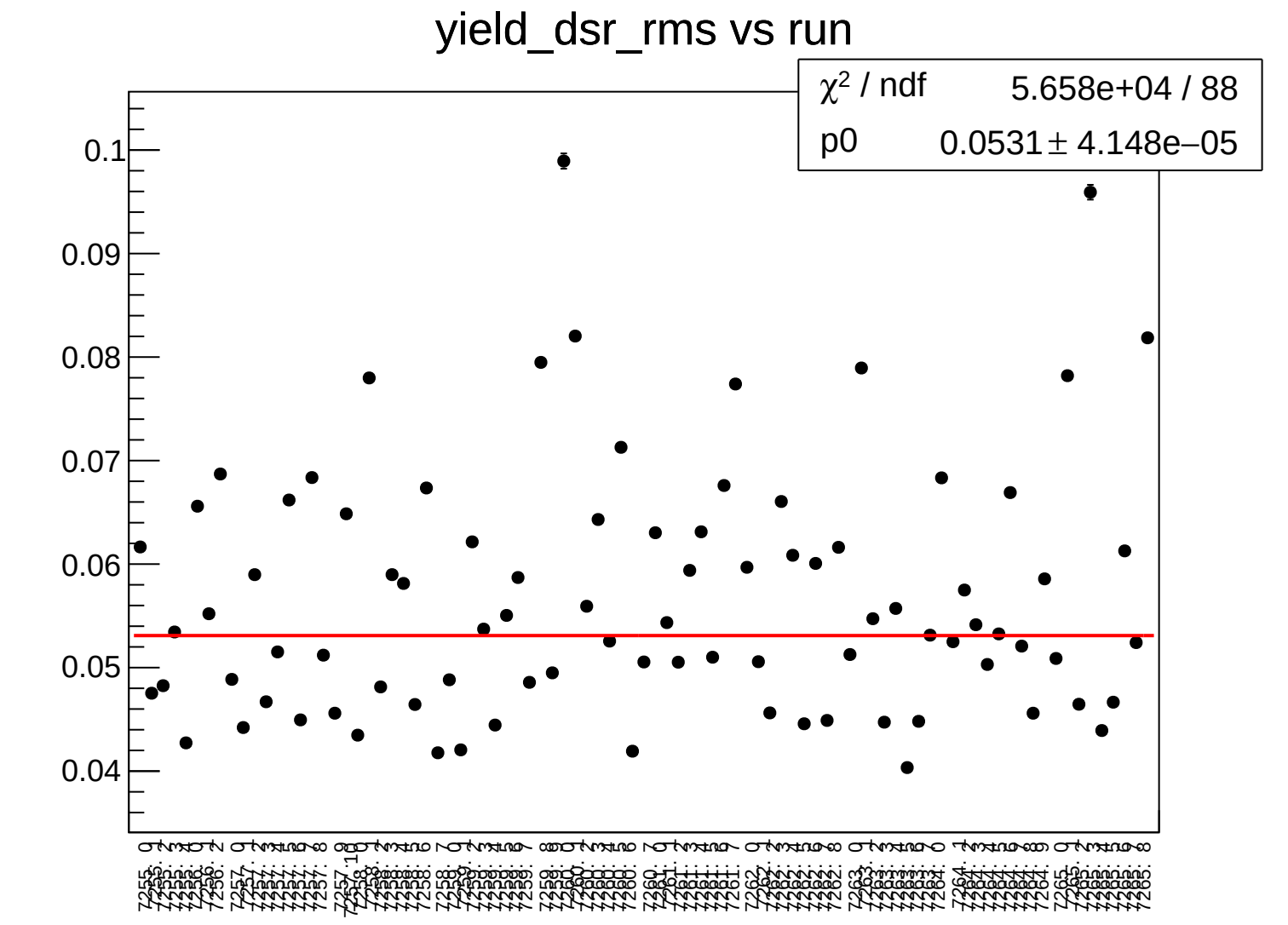

yield_usr_rms vs run
χ² / ndf 7.507e+04 / 88
p0 0.06821 ± 5.359e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06

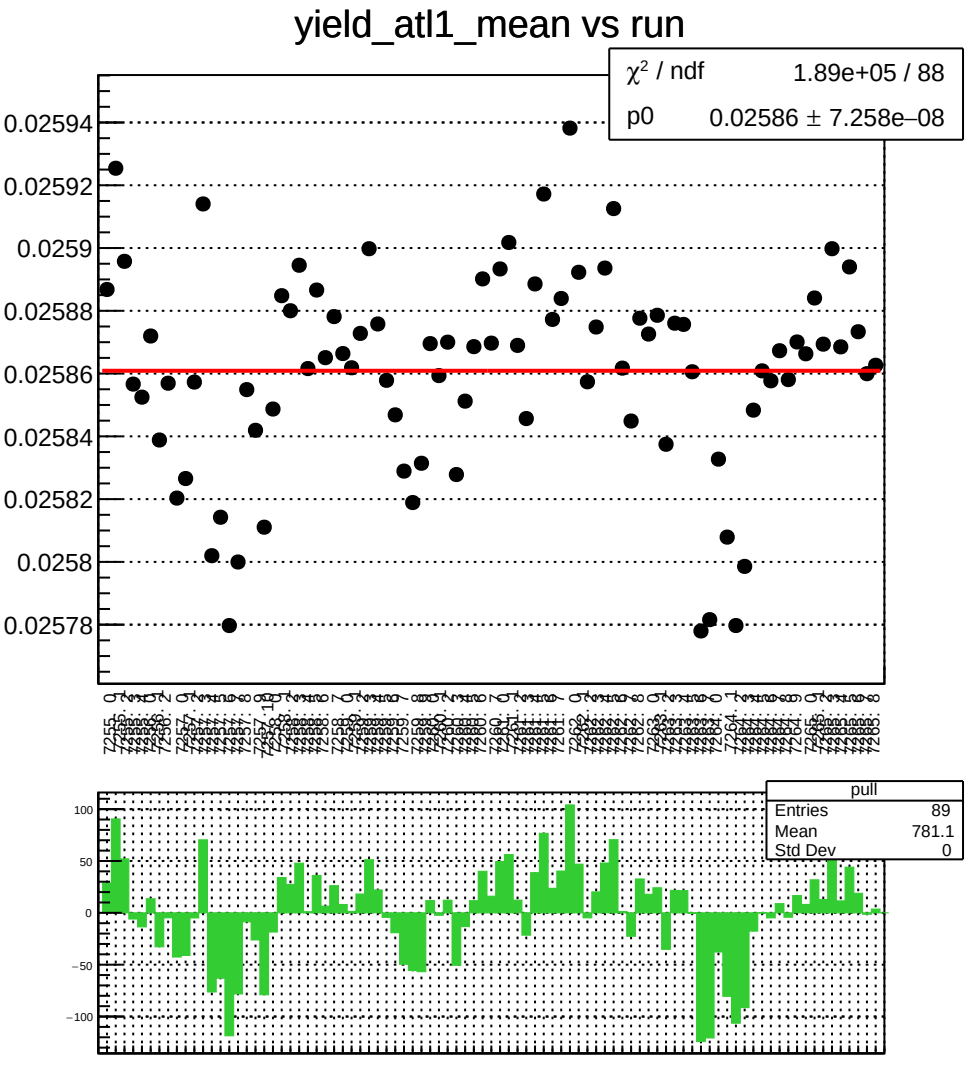

yield_dsl_mean vs run
χ² / ndf 3.256e+06 / 88
p0 −23.71 ± 5.238e−05
−23.5
−23.6
−23.7
−23.8
−23.9
pull
Entries 89
Mean −1.391e+04
Std Dev 0
400
200
0
−200
−400

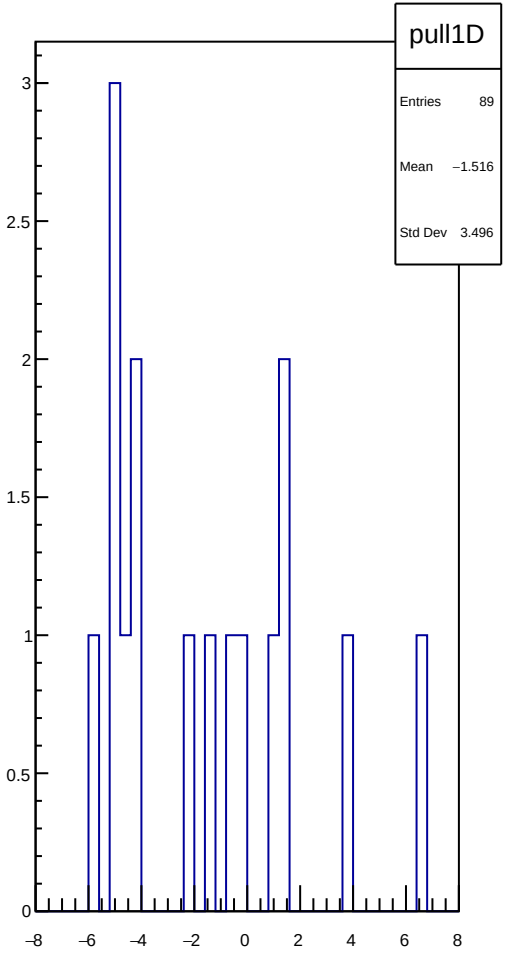

pull1D
Entries 89
Mean 4.123
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

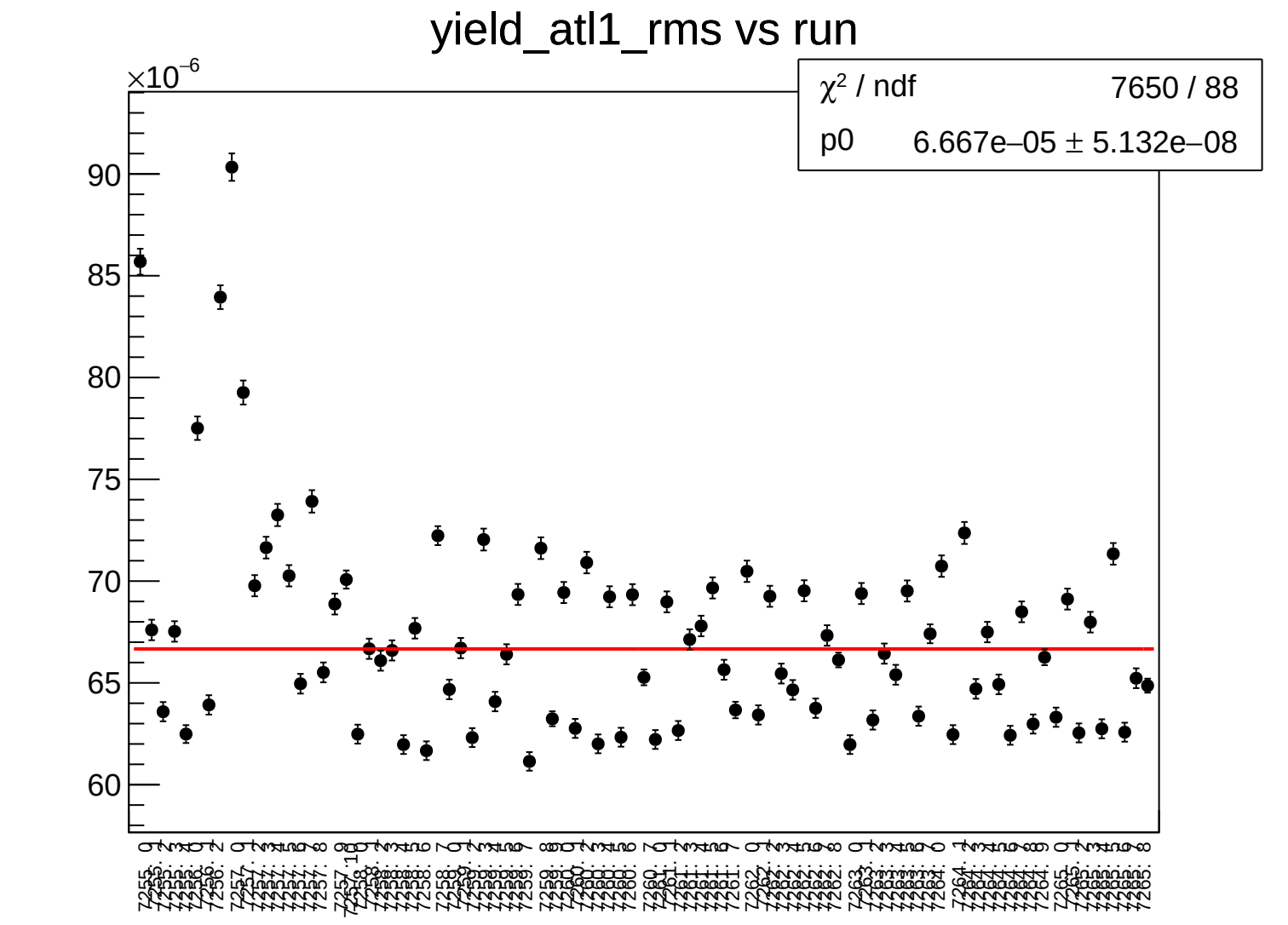

yield_dsl_rms vs run
χ² / ndf 5.342e+04 / 88
p0 0.04745 ± 3.704e–05
0.09
0.08
0.07
0.06
0.05
0.04

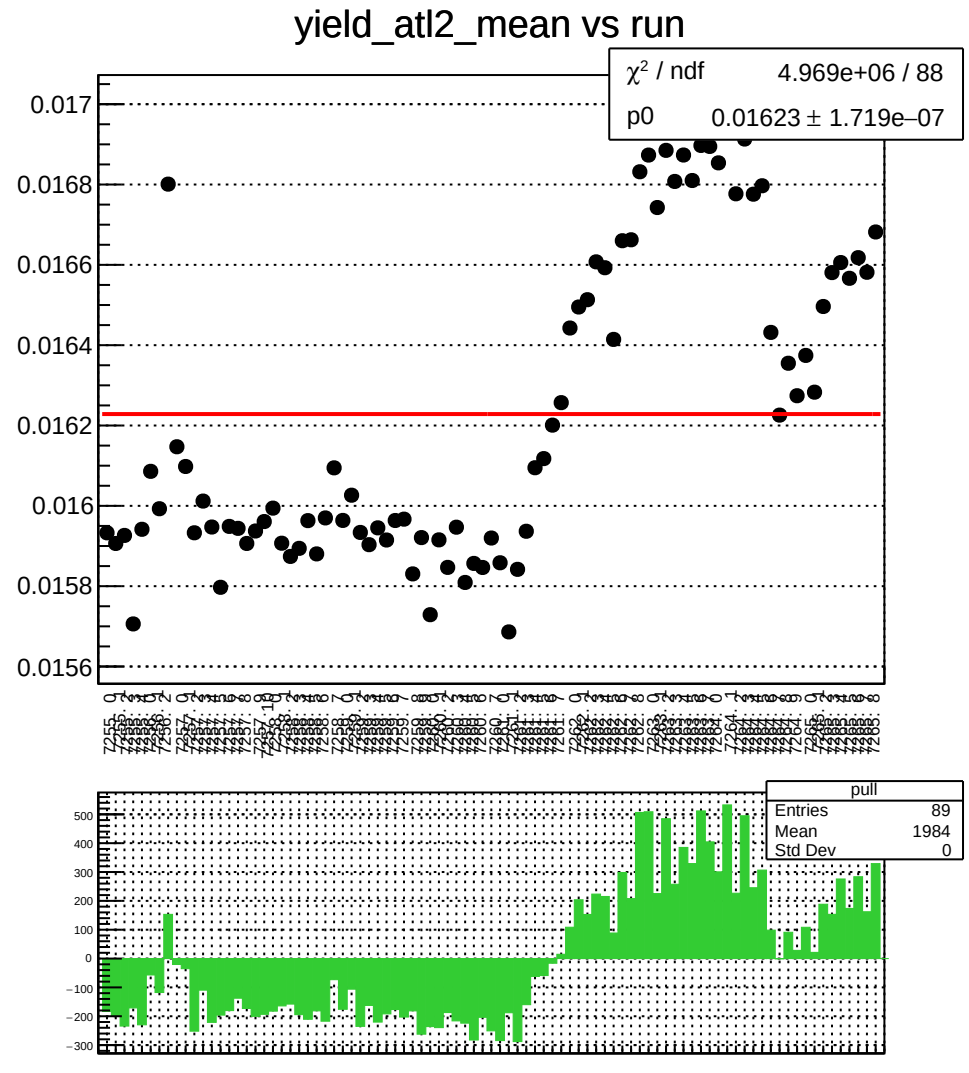

yield_dsr_mean vs run
χ² / ndf 9.063e+05 / 88
p0 −25.56 ± 5.866e−05
−25.4
−25.45
−25.5
−25.55
−25.6
−25.65
pull
Entries 89
Mean −256.1
Std Dev 0
200
100
0
−100
−200
pull1D
Entries 89
Mean 0.1266
Std Dev 3.38
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

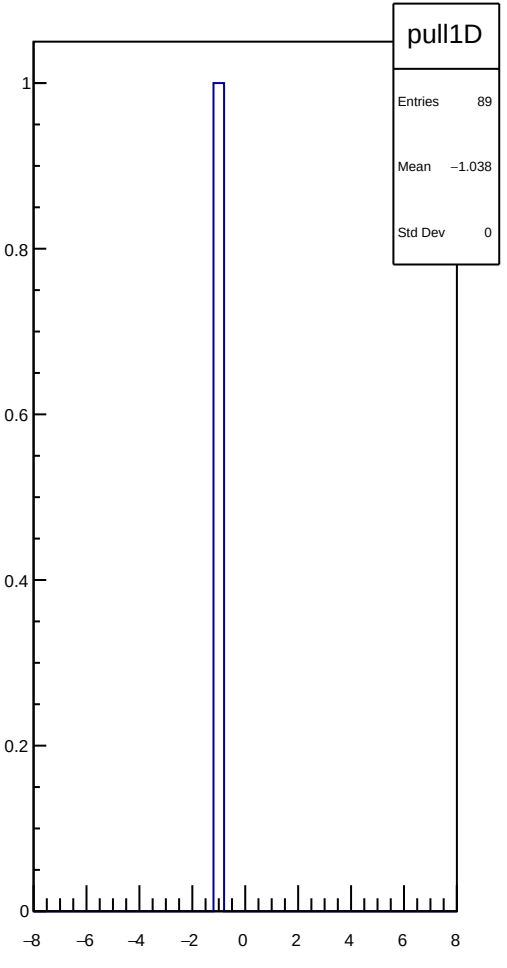

yield_dsr_rms vs run
χ² / ndf 5.658e+04 / 88
p0 0.0531 ± 4.148e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

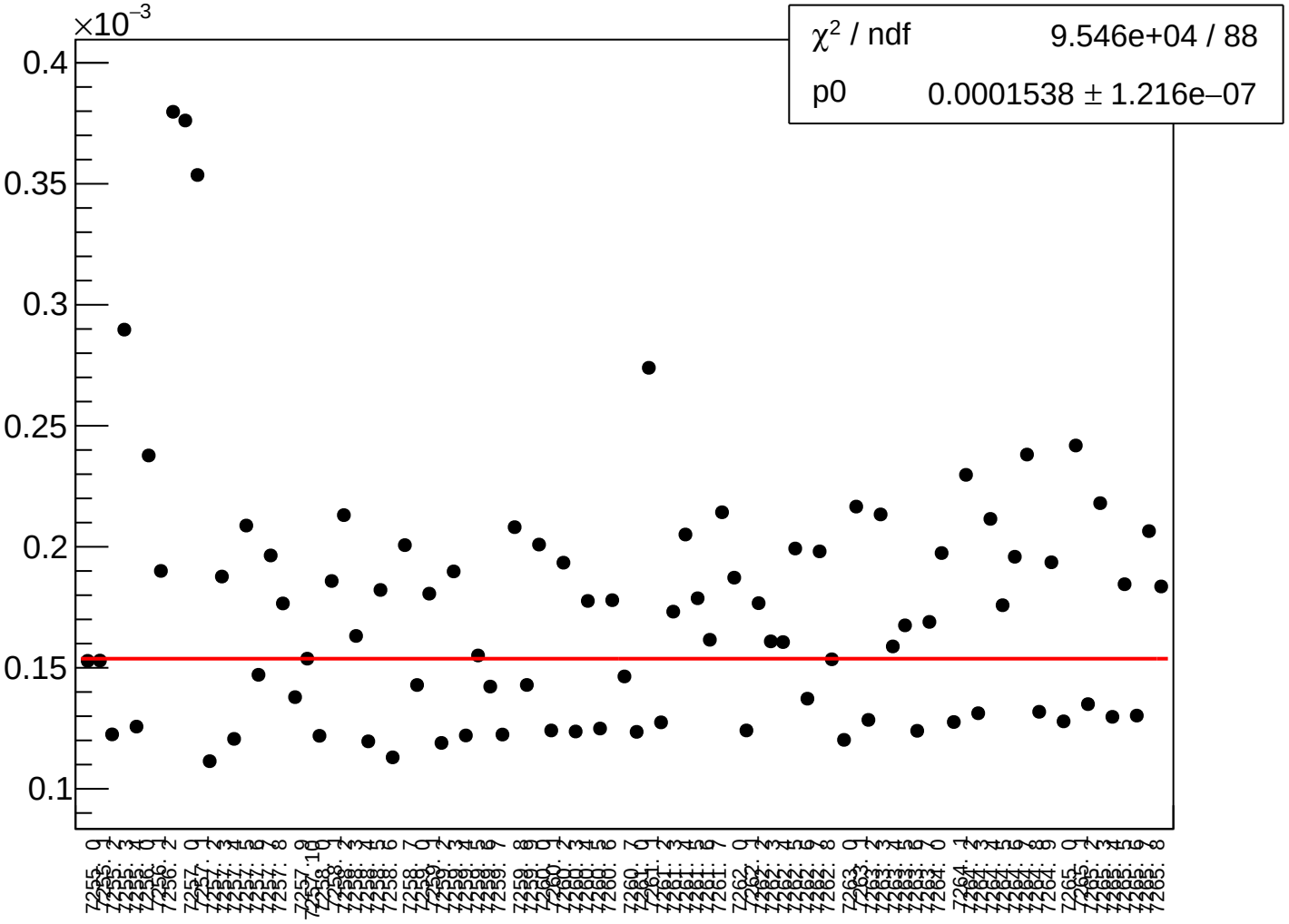

yield_atl1_mean vs run
χ² / ndf 1.89e+05 / 88
p0 0.02586 ± 7.258e−08
0.02594
0.02592
0.0259
0.02588
0.02586
0.02584
0.02582
0.0258
0.02578
pull
Entries 89
Mean 781.1
Std Dev 0
100
50
0
−50
−100

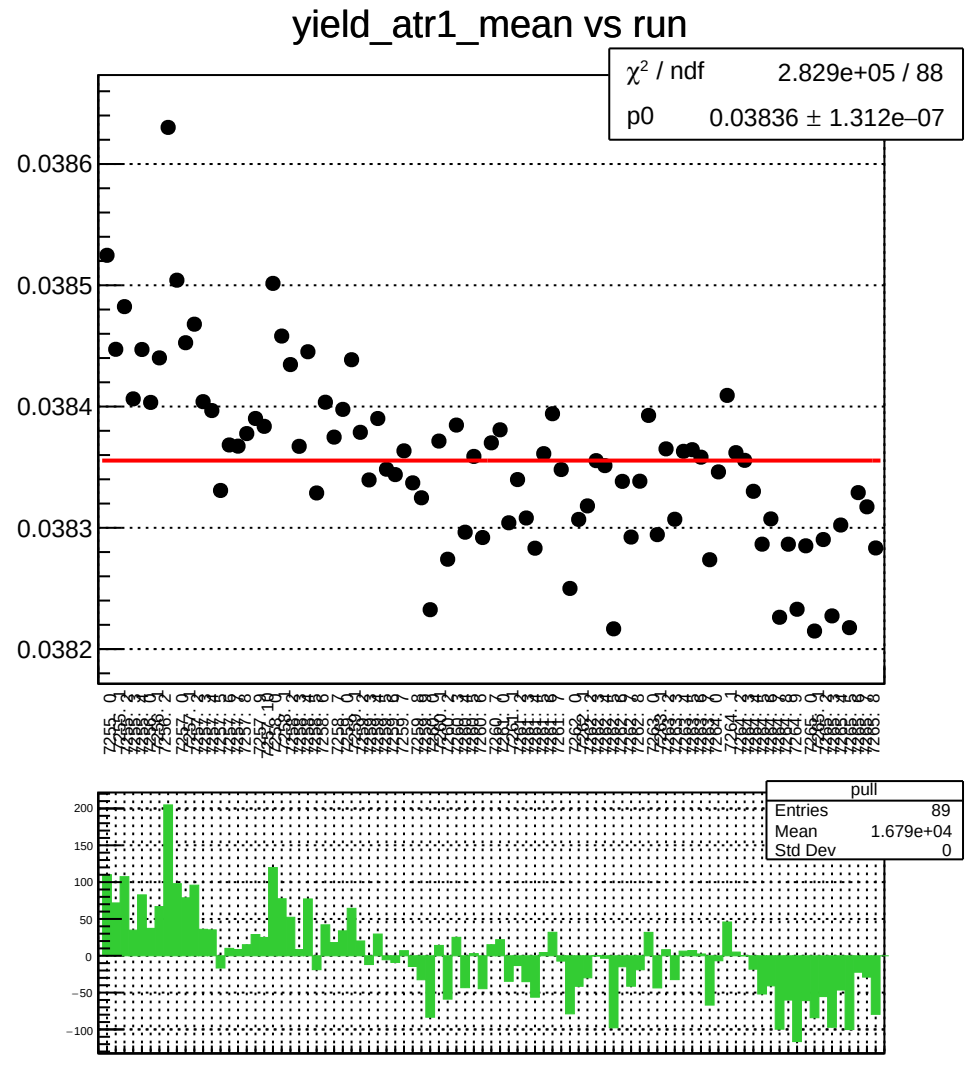

pull1D
Entries 89
Mean −1.516
Std Dev 3.496
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

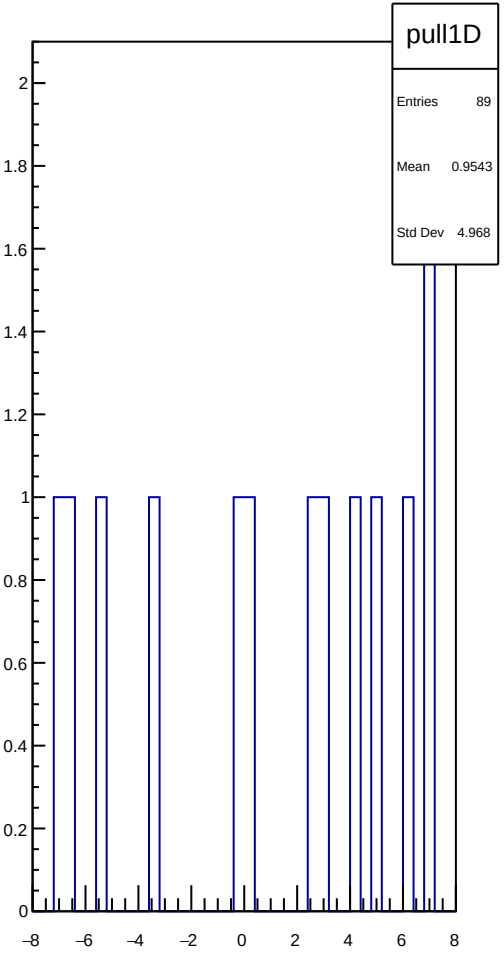

yield_atl1_rms vs run
×10⁻⁶
χ² / ndf 7650 / 88
p0 6.667e−05 ± 5.132e−08
90
85
80
75
70
65
60

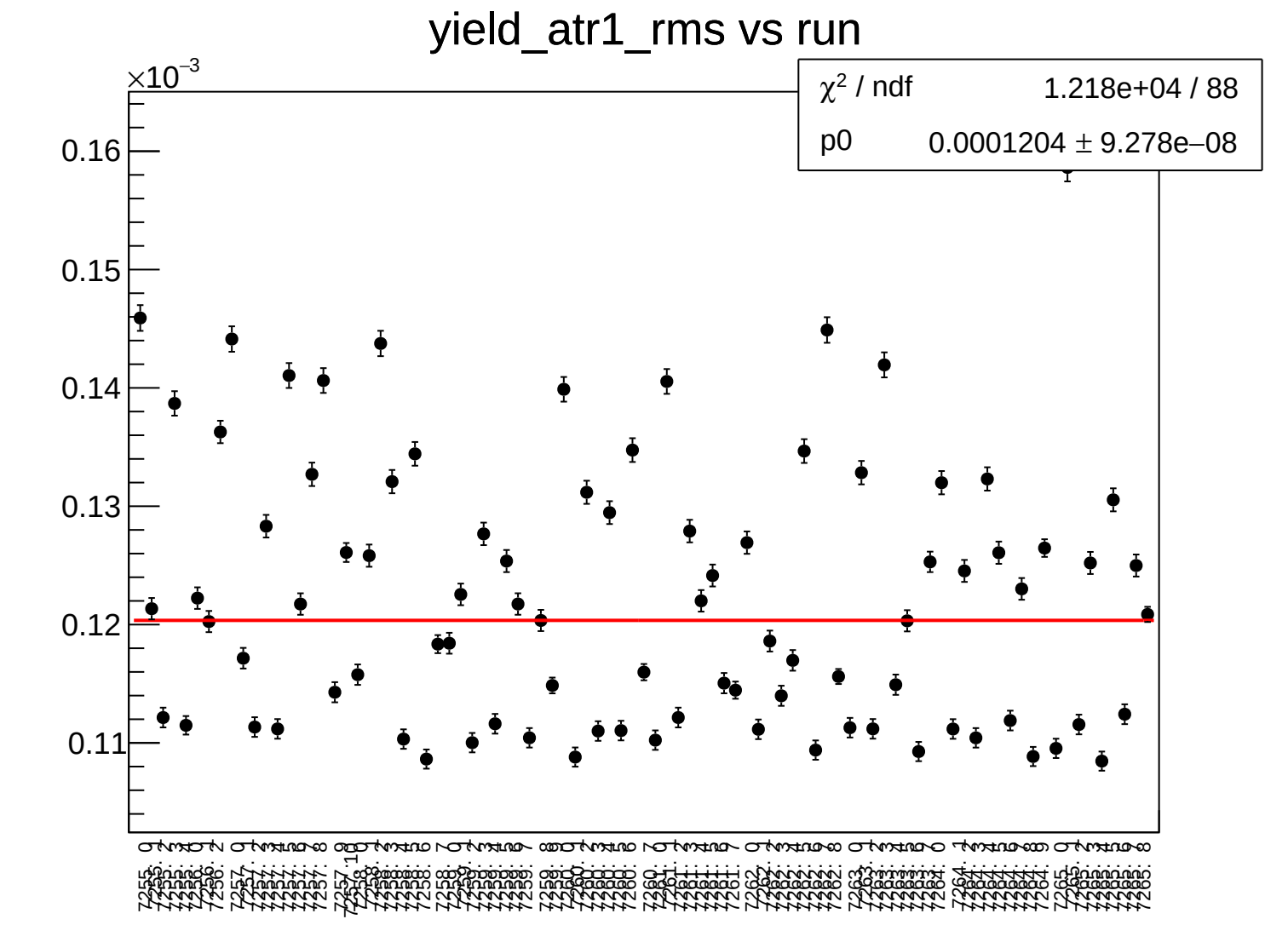

yield_atl2_mean vs run
χ² / ndf 4.969e+06 / 88
p0 0.01623 ± 1.719e−07
0.017
0.0168
0.0166
0.0164
0.0162
0.016
0.0158
0.0156
pull
Entries 89
Mean 1984
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

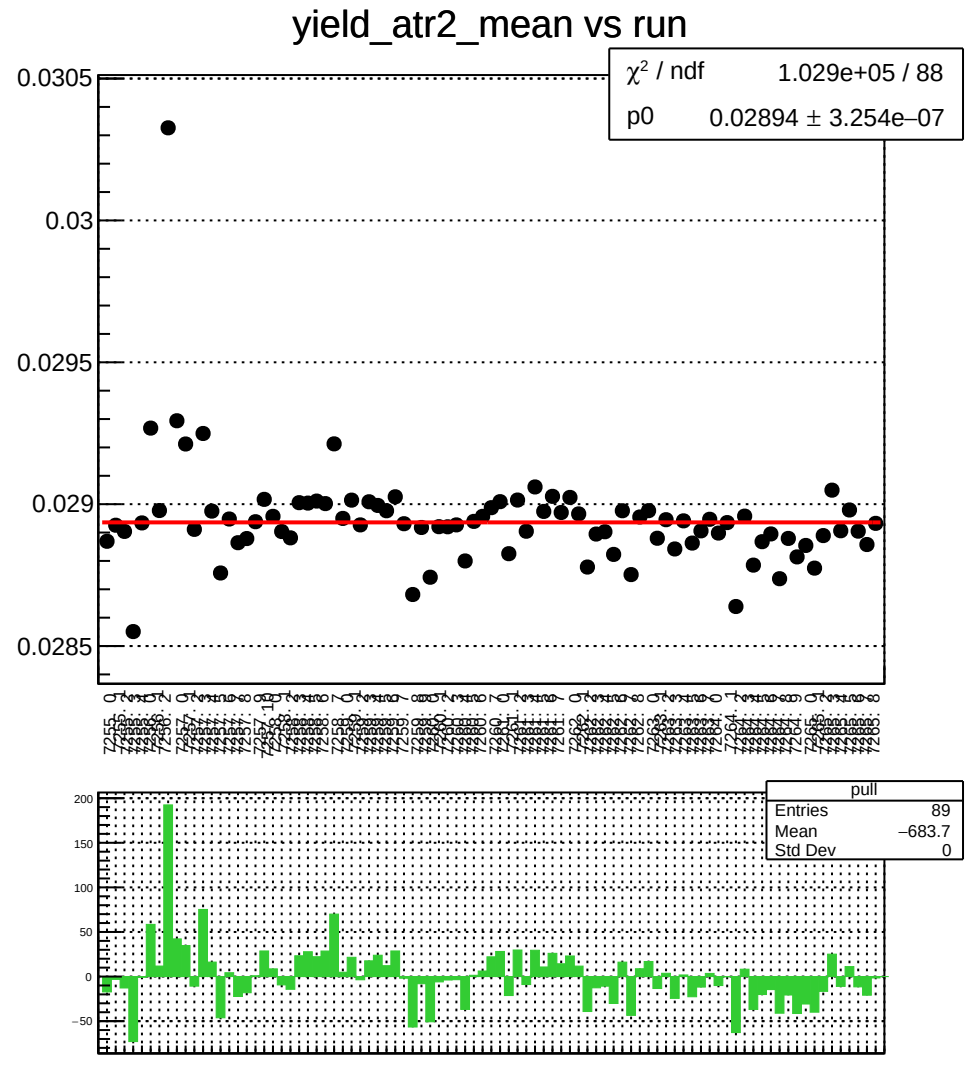

pull1D
Entries 89
Mean −1.038
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

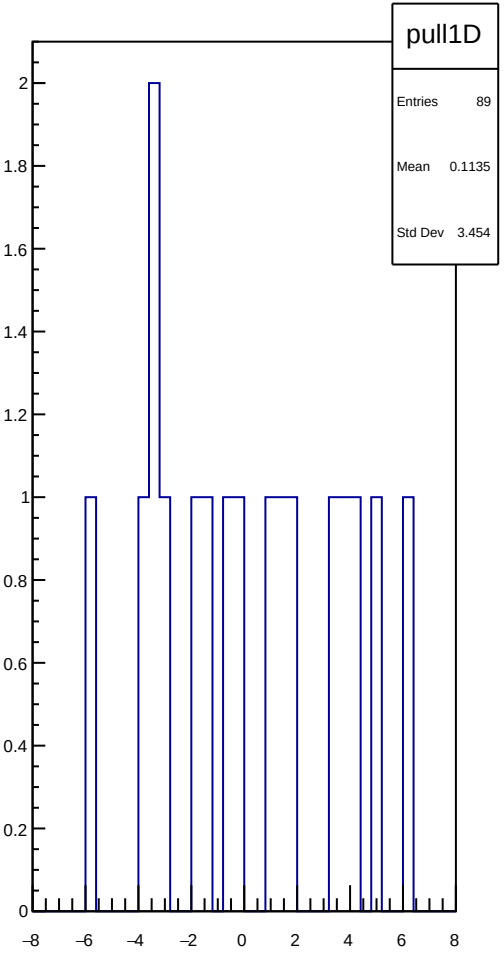

yield_atl2_rms vs run
×10⁻³
χ² / ndf 9.546e+04 / 88
p0 0.0001538 ± 1.216e−07
0.4
0.35
0.3
0.25
0.2
0.15
0.1

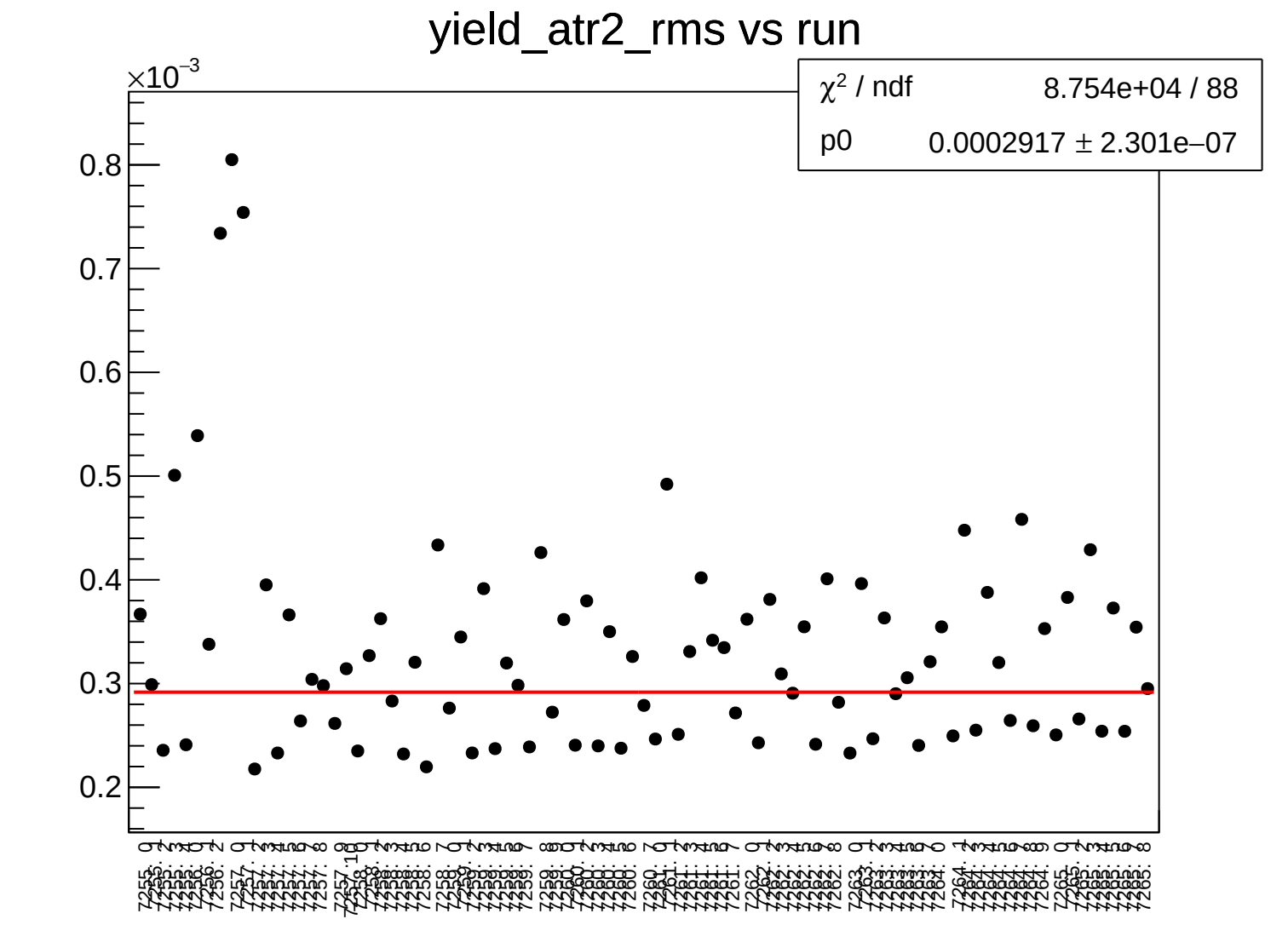

yield_atr1_mean vs run
χ² / ndf 2.829e+05 / 88
p0 0.03836 ± 1.312e−07
0.0386
0.0385
0.0384
0.0383
0.0382
pull
Entries 89
Mean 1.679e+04
Std Dev 0
200
150
100
50
0
−50
−100

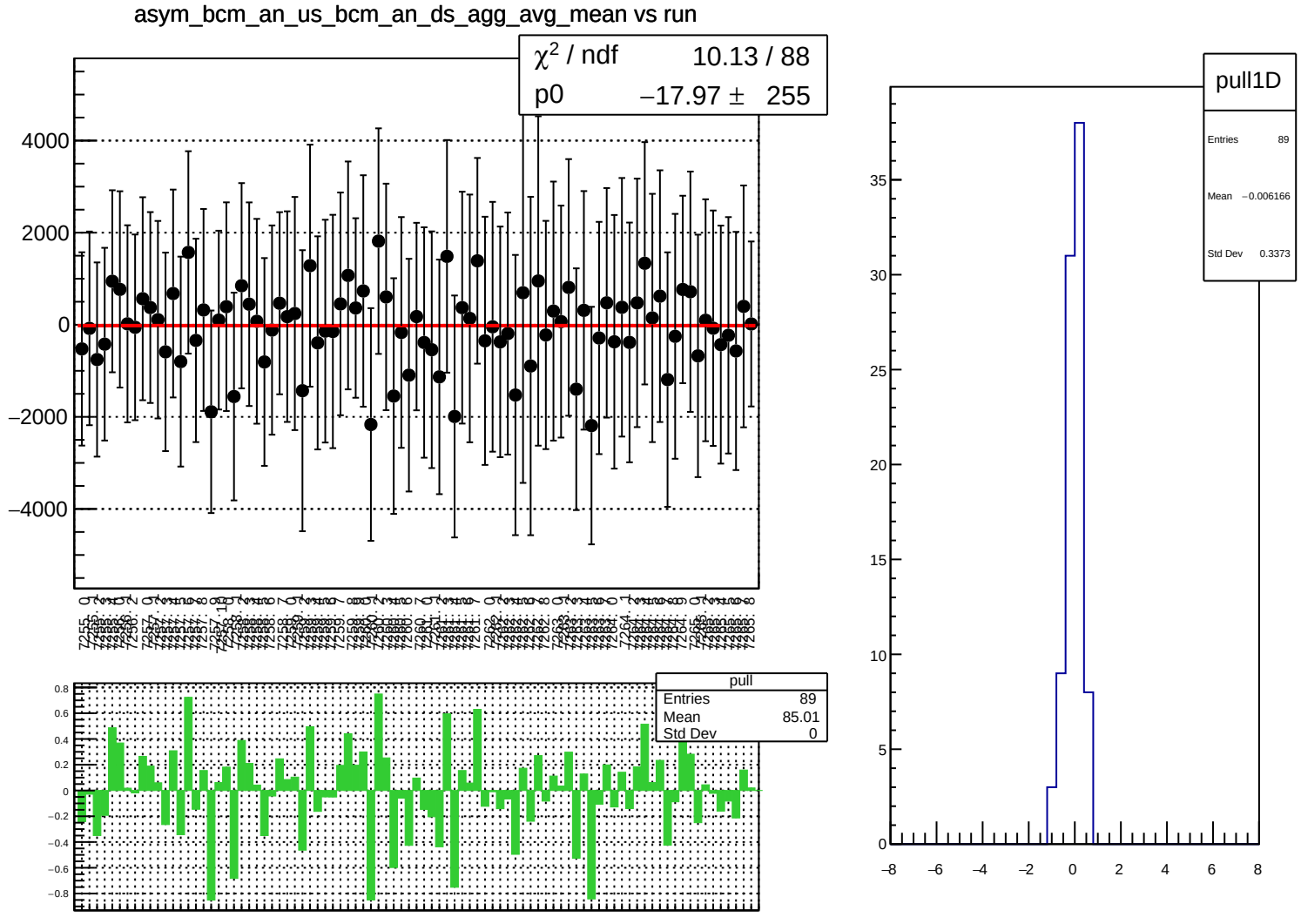

pull1D
Entries 89
Mean 0.9543
Std Dev 4.968
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

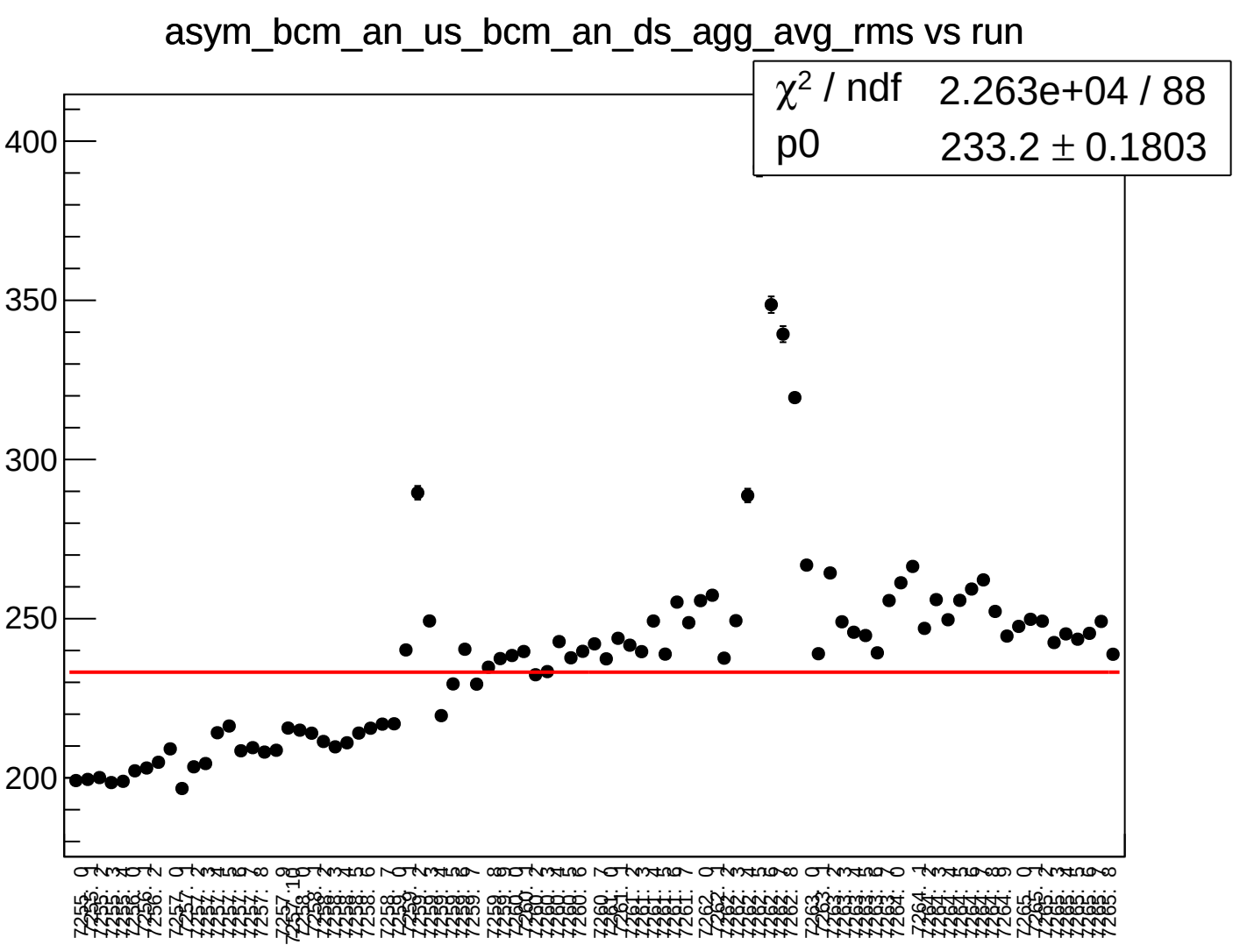

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.218e+04 / 88
p0 0.0001204 ± 9.278e−08
0.16
0.15
0.14
0.13
0.12
0.11

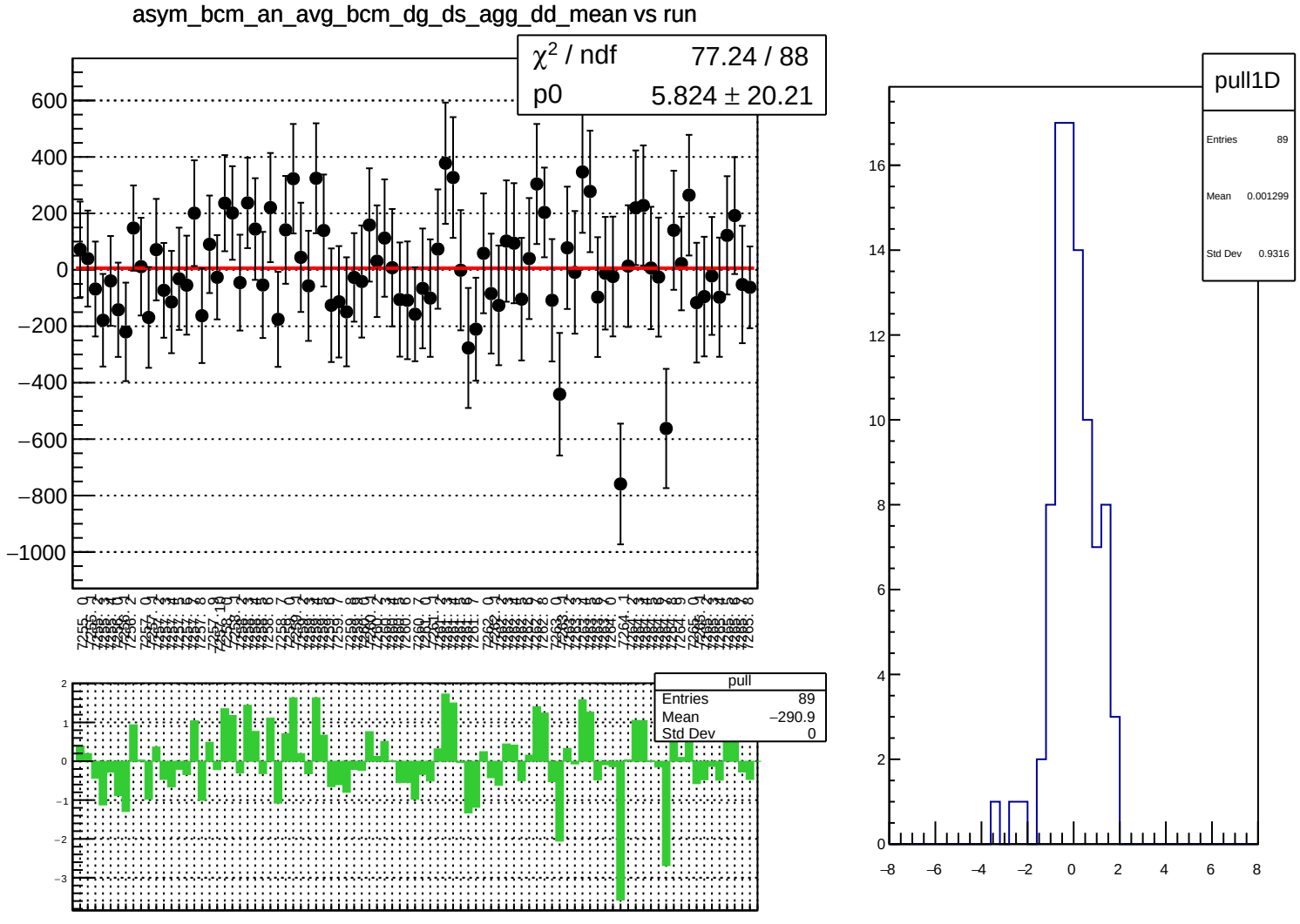

yield_atr2_mean vs run
χ² / ndf 1.029e+05 / 88
p0 0.02894 ± 3.254e−07
0.0305
0.03
0.0295
0.029
0.0285
pull
Entries 89
Mean −683.7
Std Dev 0
200
150
100
50
0
−50

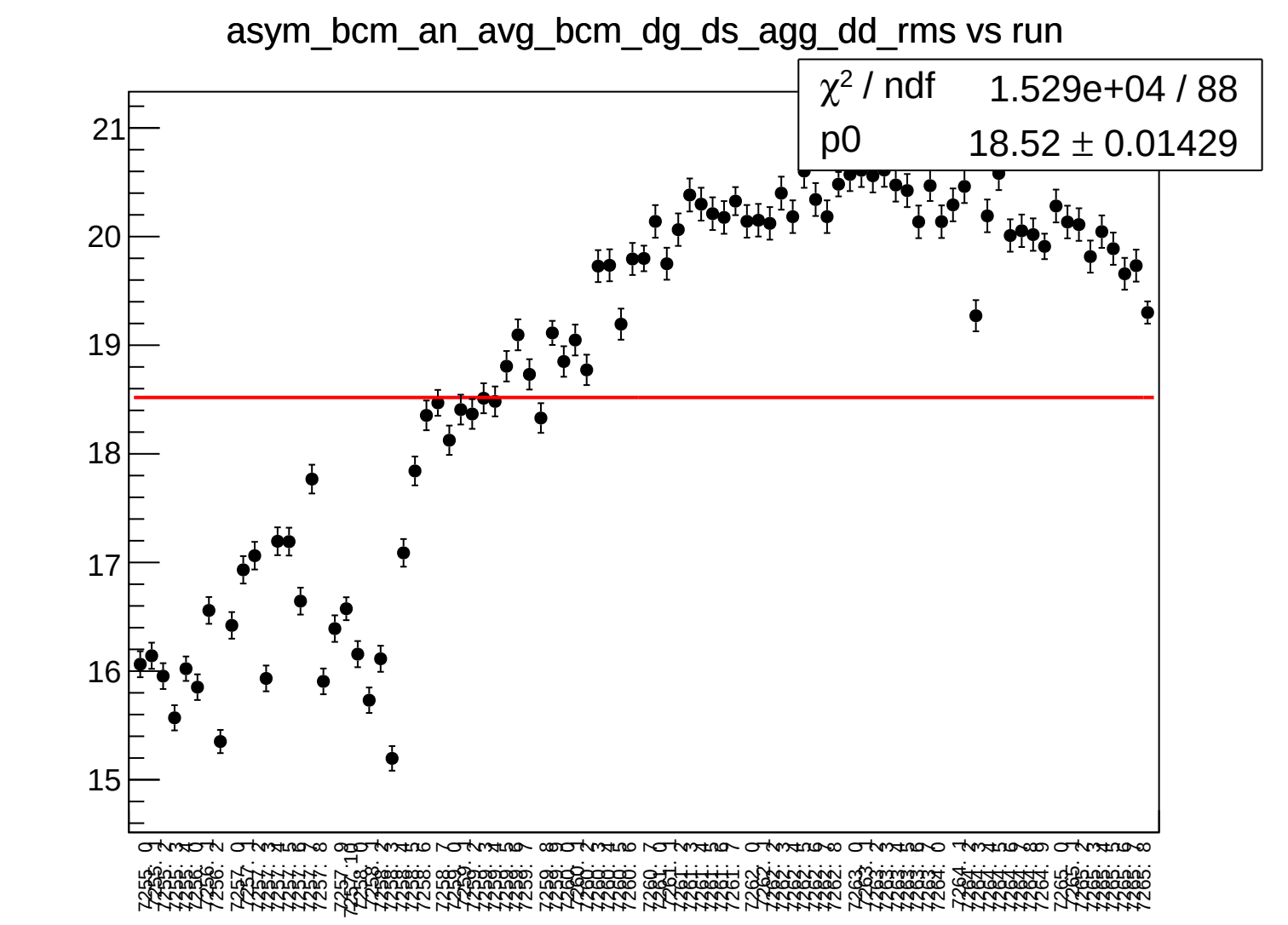

pull1D
Entries 89
Mean 0.1135
Std Dev 3.454
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

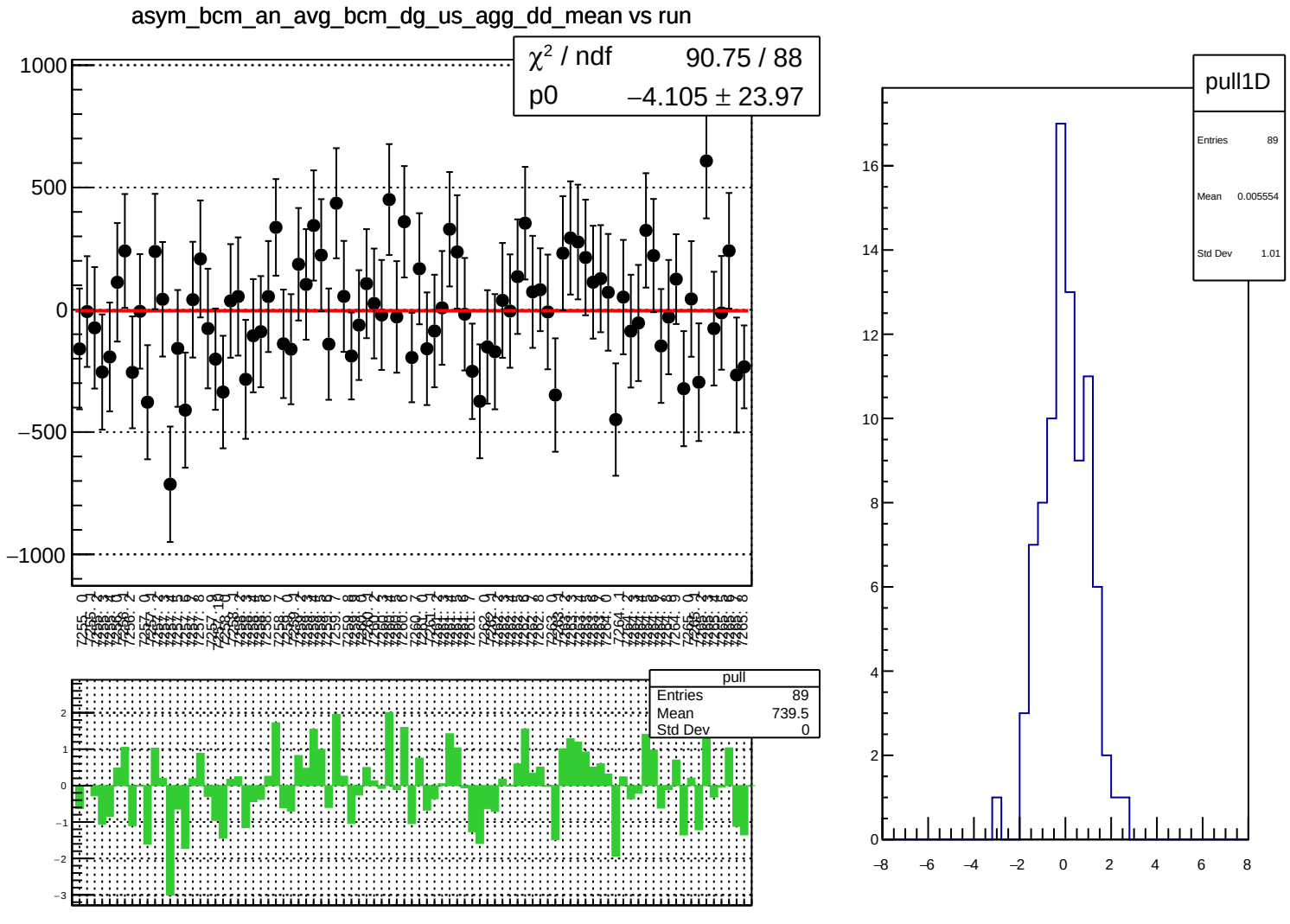

yield_atr2_rms vs run
×10⁻³
χ² / ndf 8.754e+04 / 88
p0 0.0002917 ± 2.301e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2

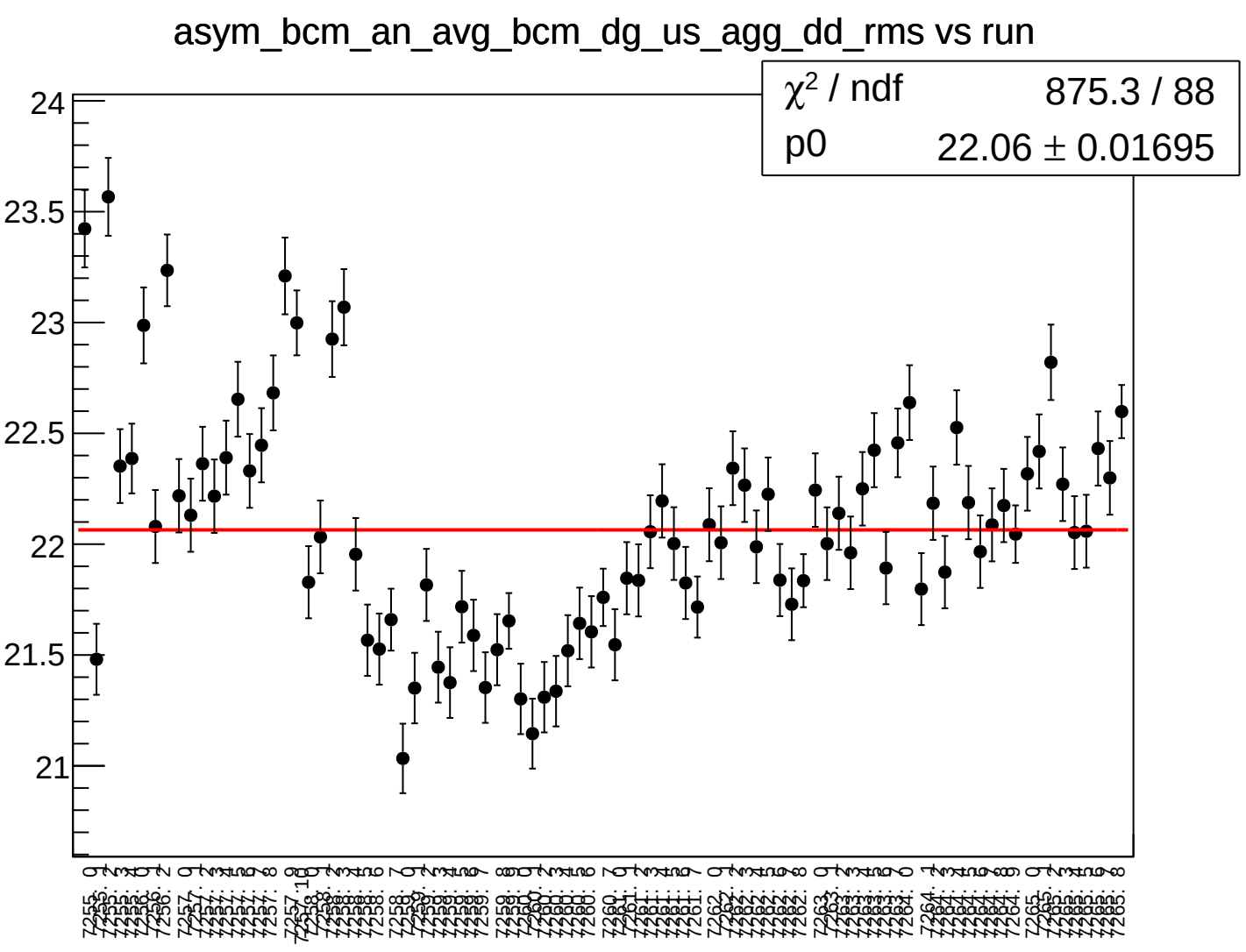

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.13 / 88
p0 −17.97 ± 255
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 85.01
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 89
Mean −0.006166
Std Dev 0.3373
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

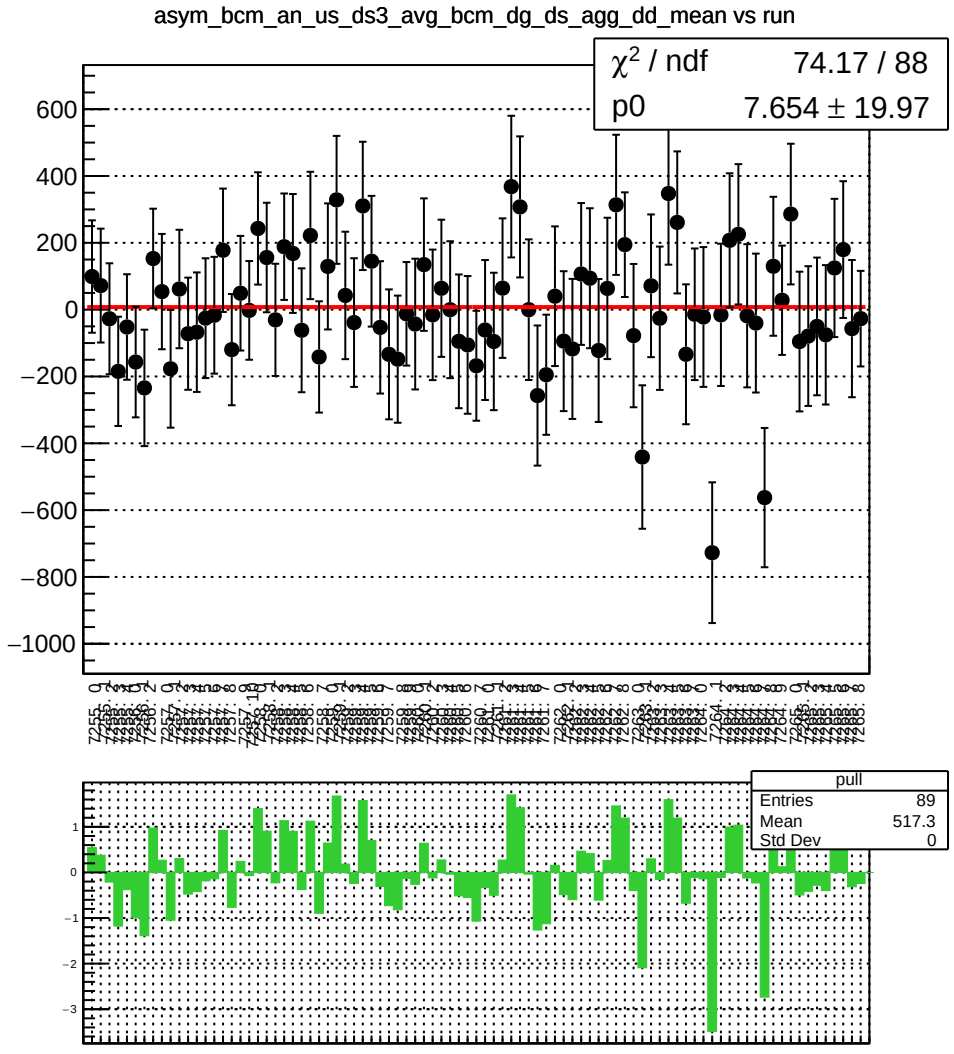

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.263e+04 / 88
p0 233.2 ± 0.1803
400
350
300
250
200

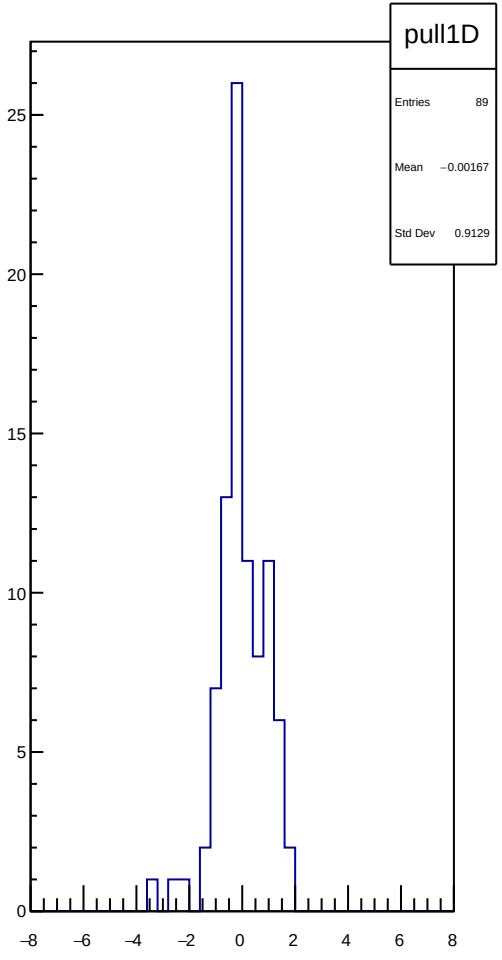

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ^2 / ndf 77.24 / 88
p0 5.824 ± 20.21
pull
Entries 89
Mean −290.9
Std Dev 0
pull1D
Entries 89
Mean 0.001299
Std Dev 0.9316

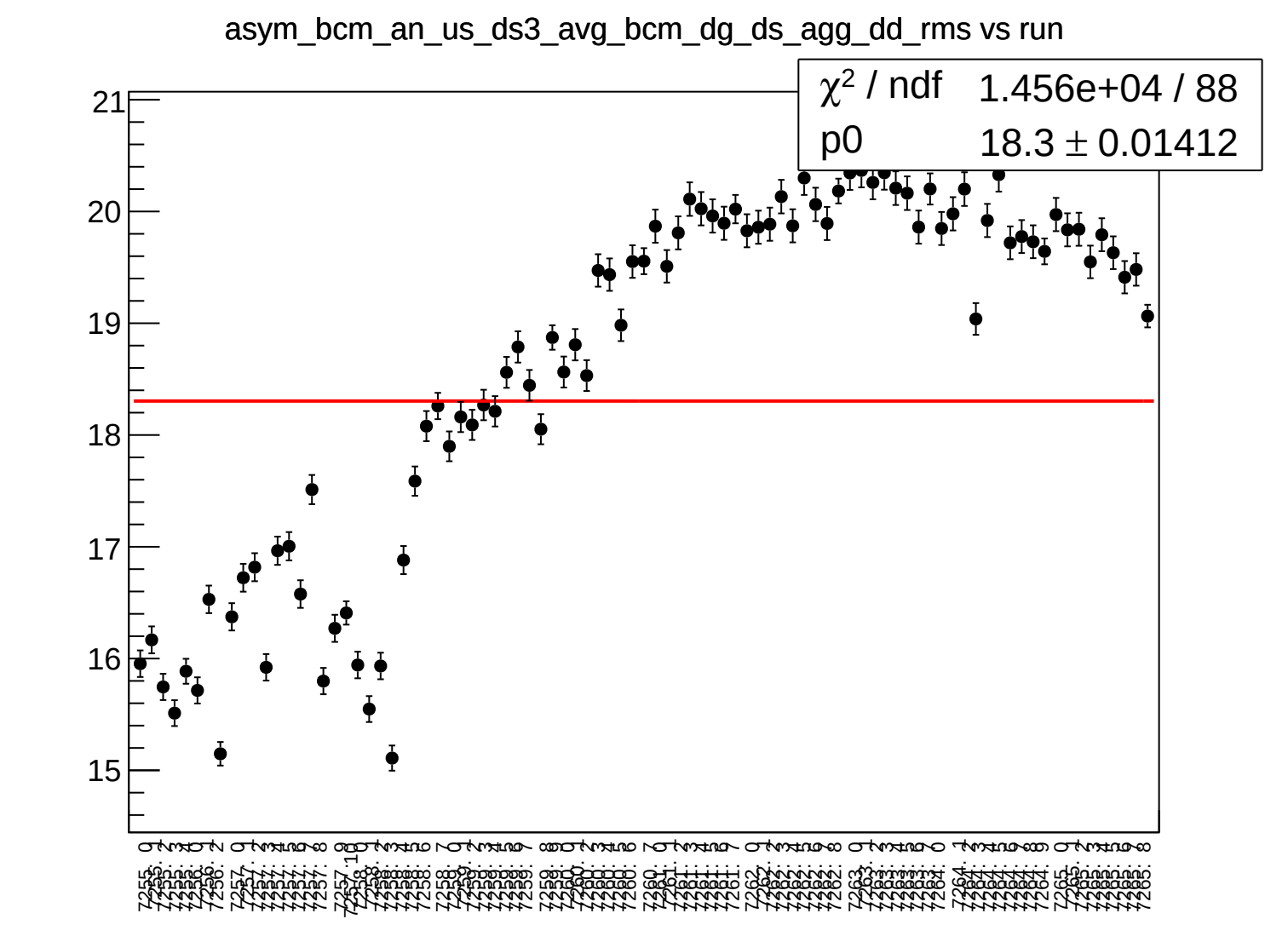

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1.529e+04 / 88
p0 18.52 ± 0.01429
21
20
19
18
17
16
15

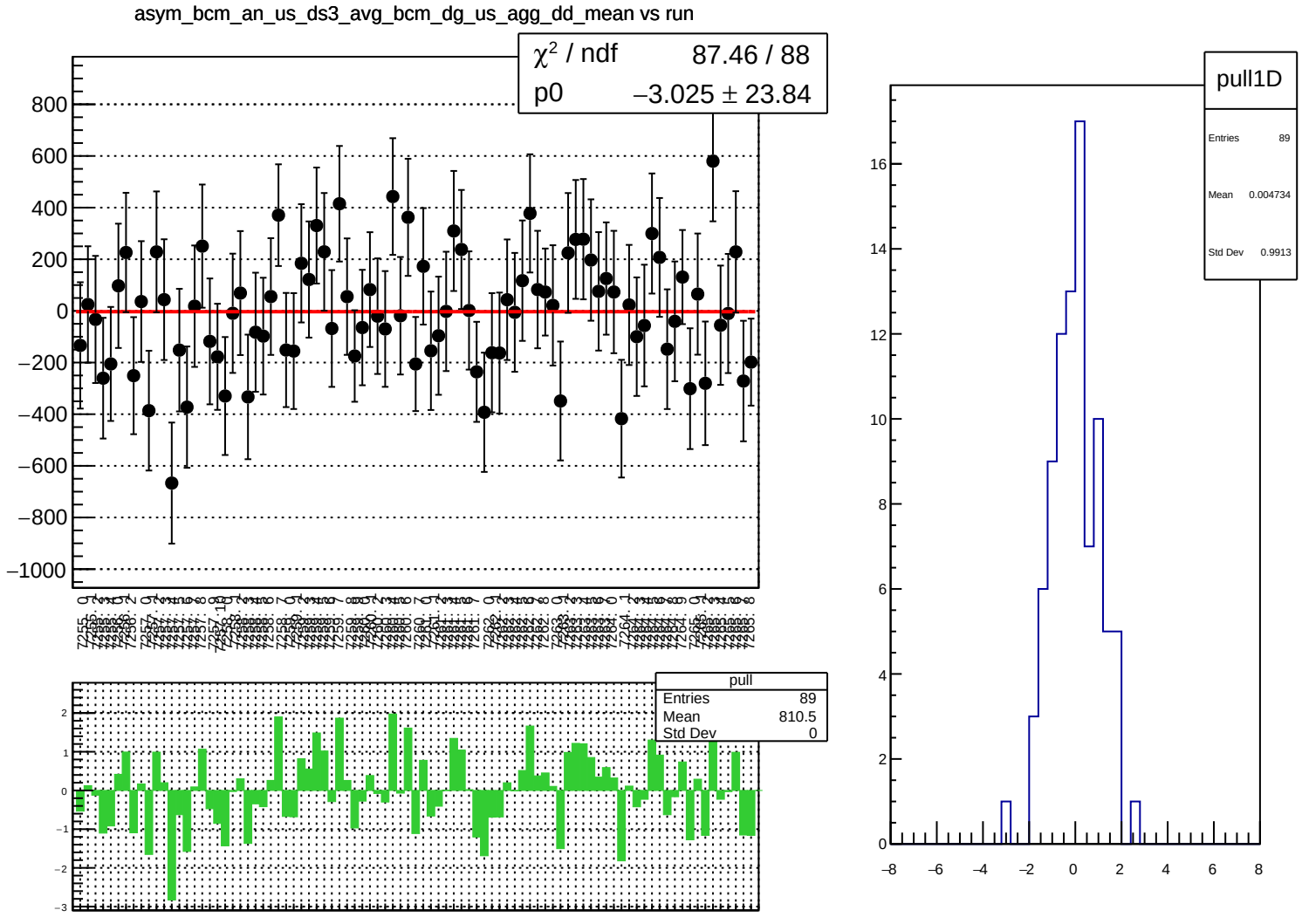

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 90.75 / 88
p0 −4.105 ± 23.97
1000
500
0
−500
−1000
pull
Entries 89
Mean 739.5
Std Dev 0
pull1D
Entries 89
Mean 0.005554
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

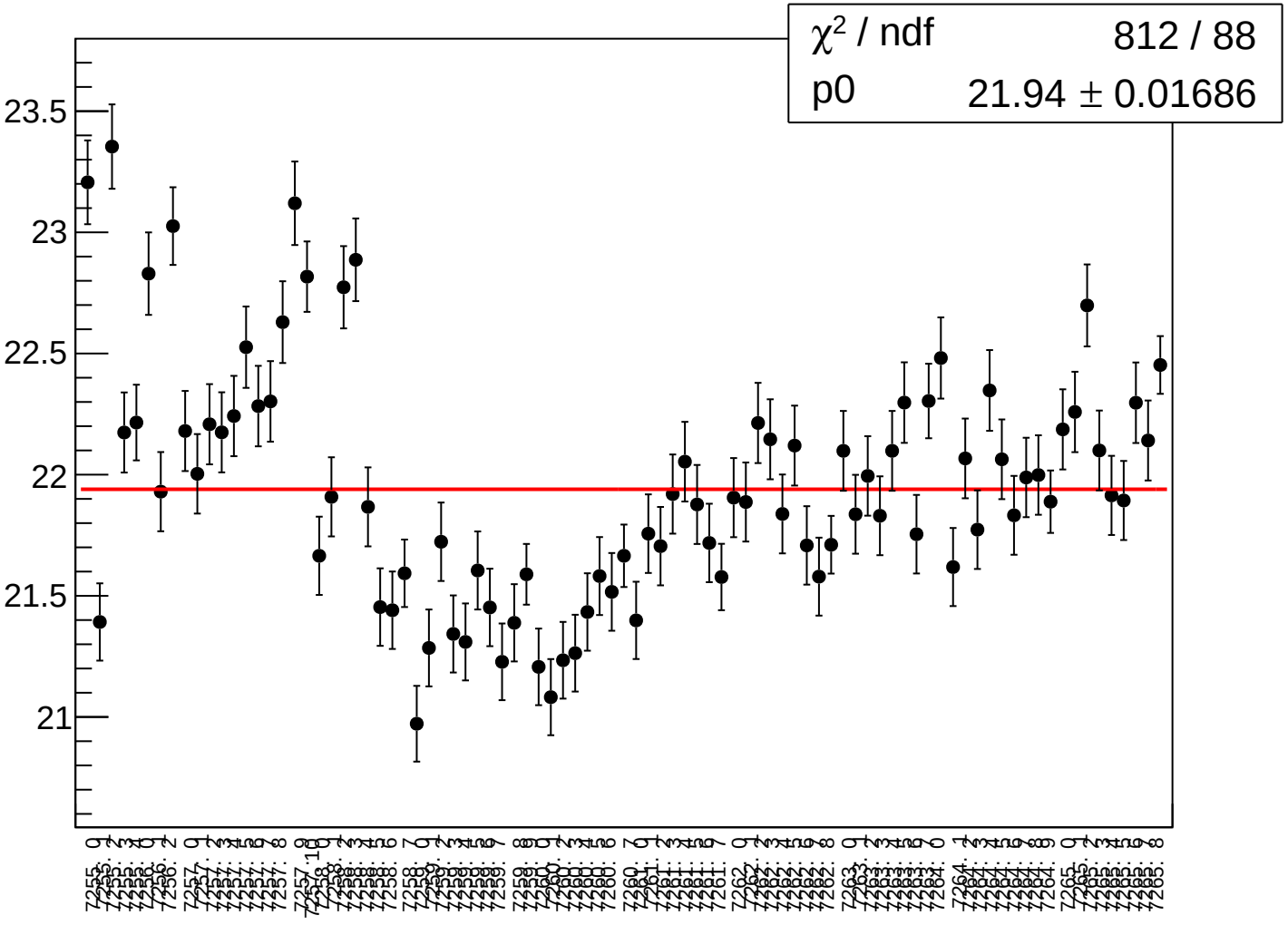

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 875.3 / 88
p0 22.06 ± 0.01695
24
23.5
23
22.5
22
21.5
21

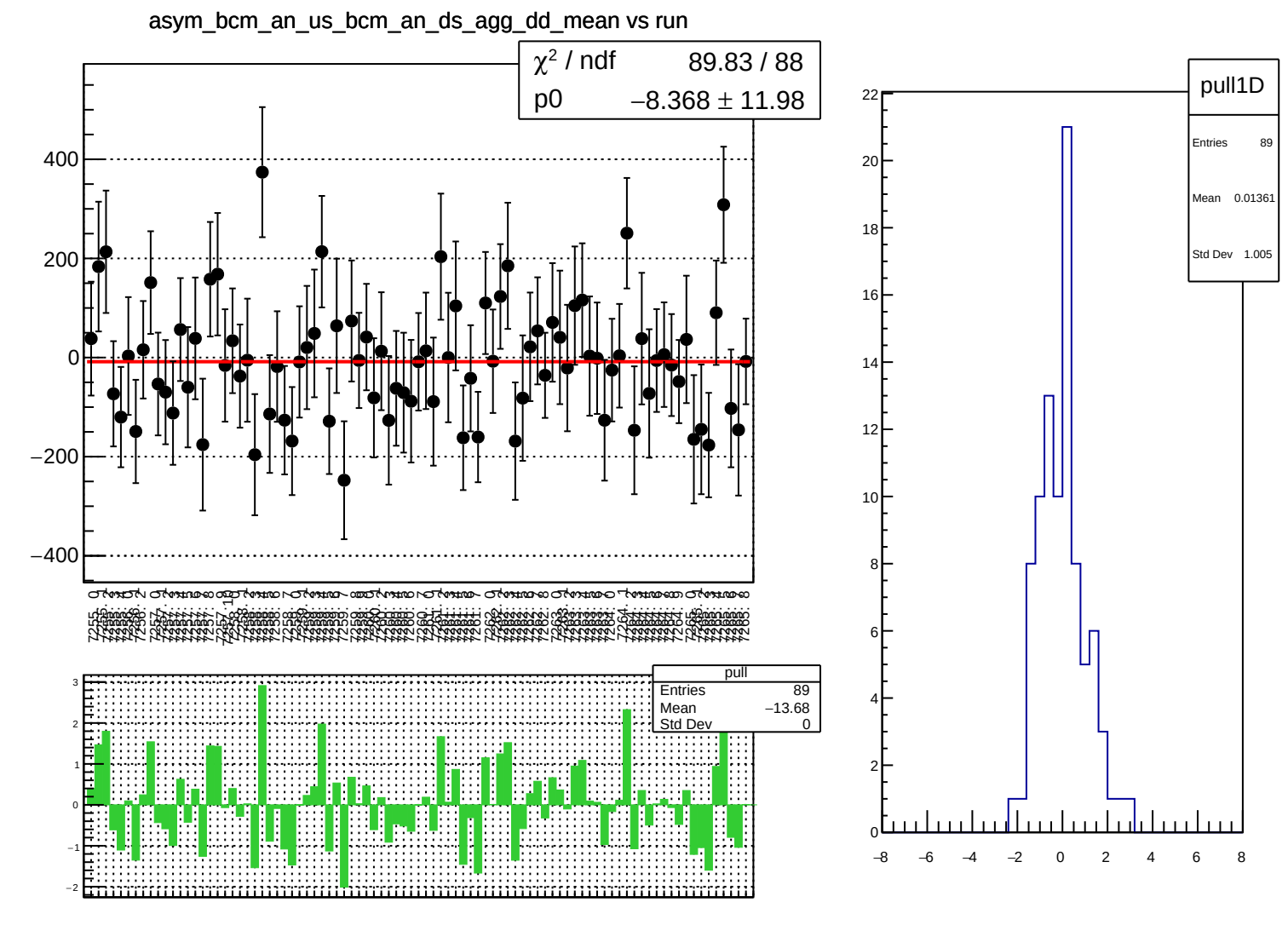

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 74.17 / 88
p0 7.654 ± 19.97
pull
Entries 89
Mean 517.3
Std Dev 0

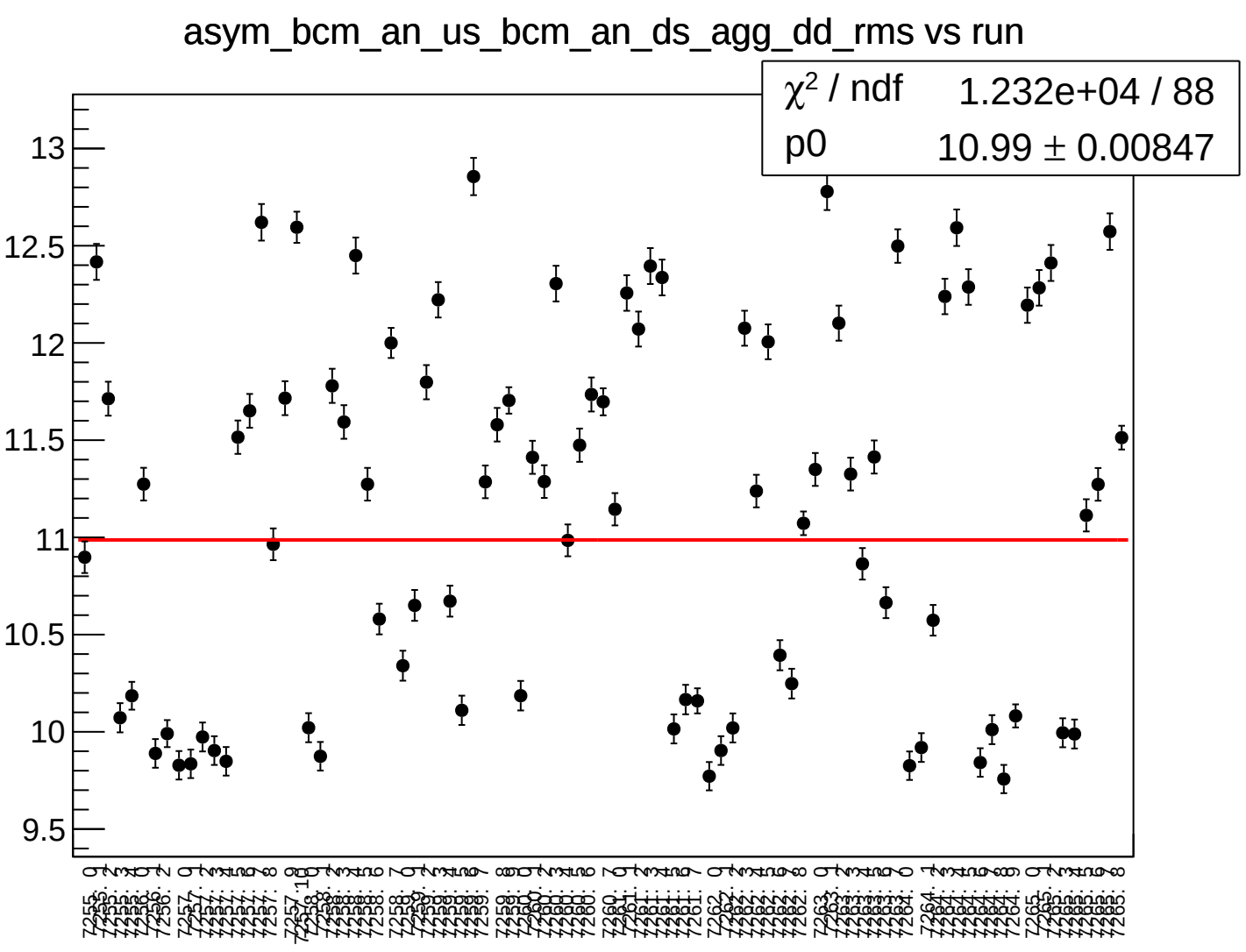

pull1D
Entries 89
Mean −0.00167
Std Dev 0.9129

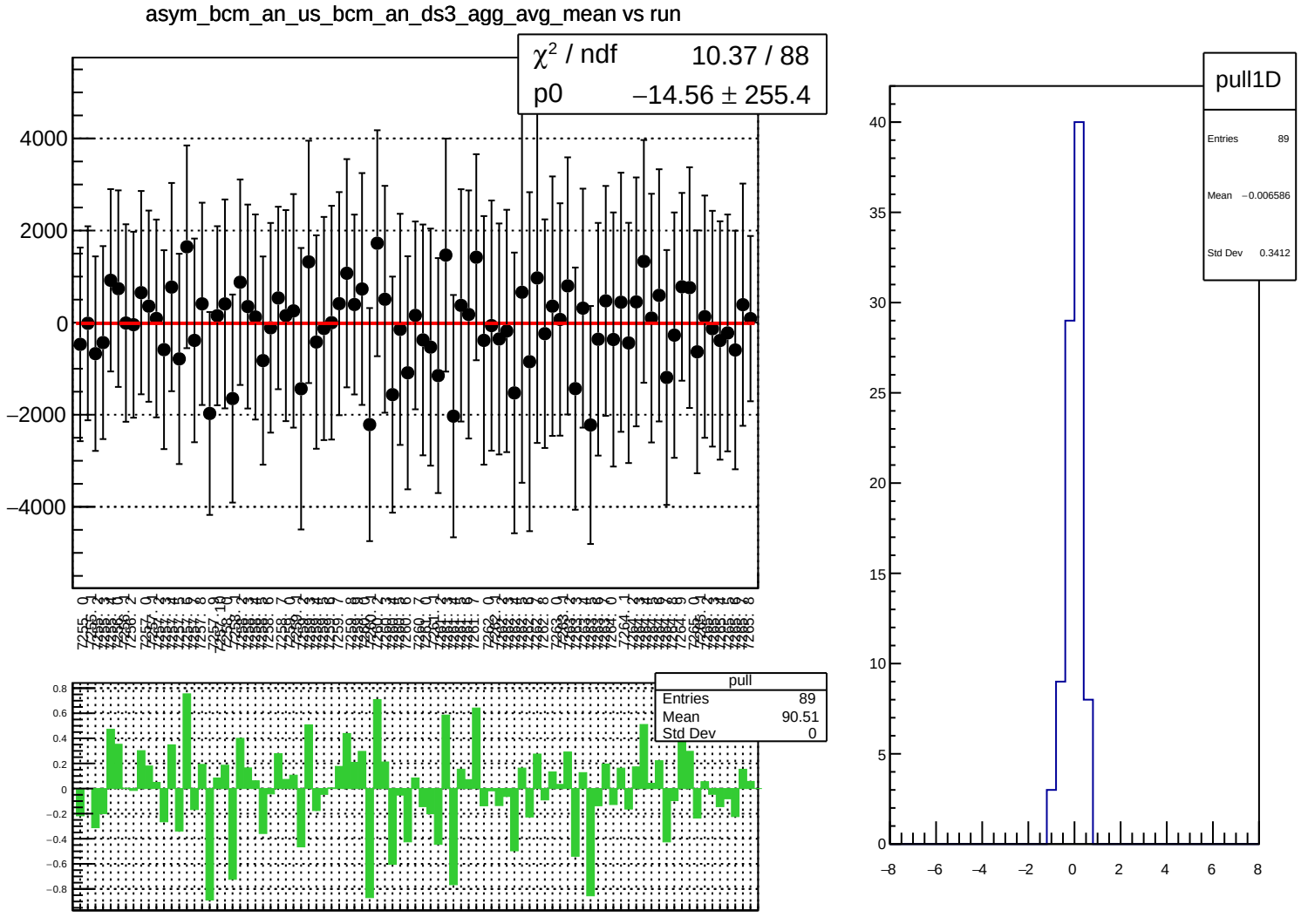

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1.456e+04 / 88
p0 18.3 ± 0.01412
21
20
19
18
17
16
15

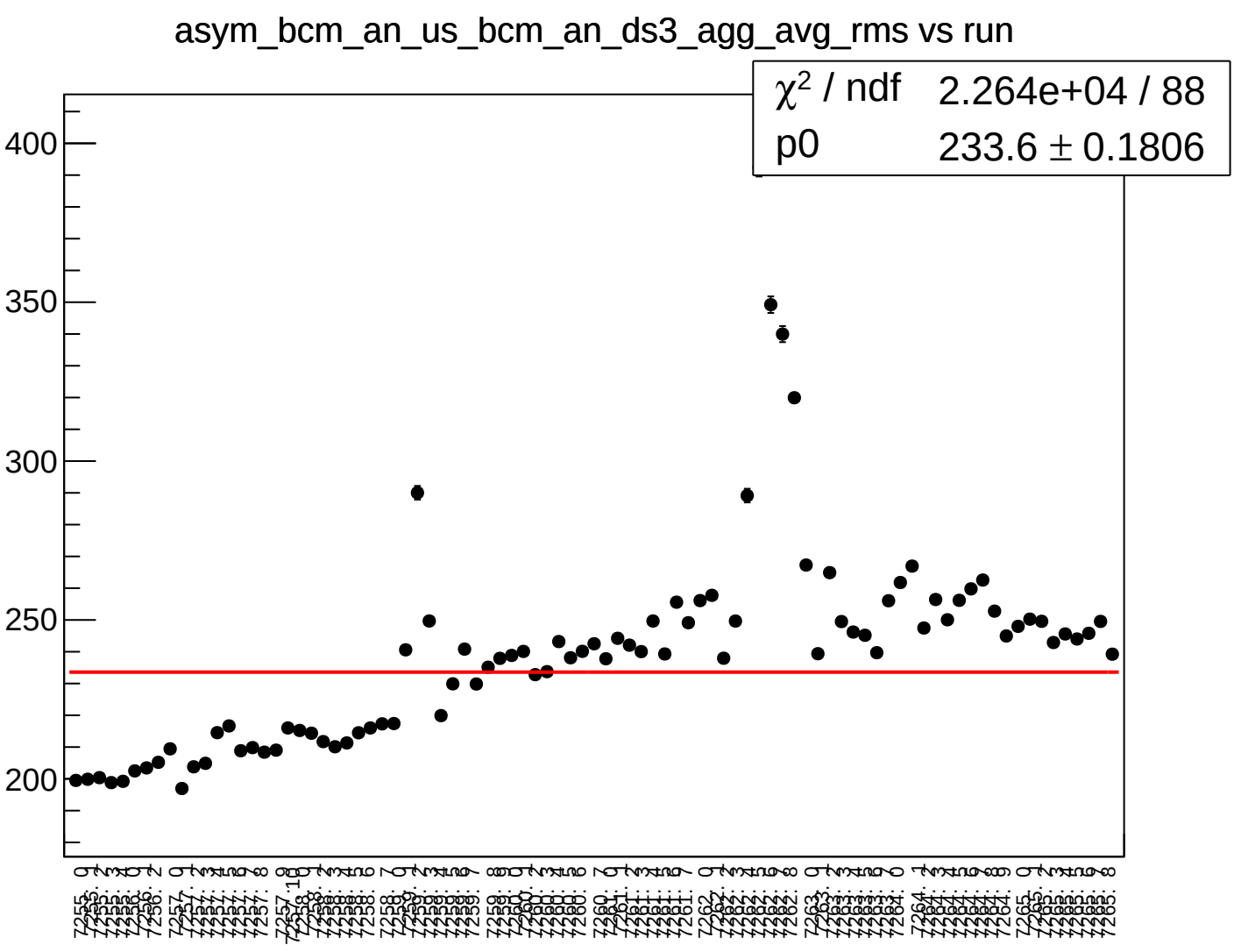

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 87.46 / 88
p0 −3.025 ± 23.84
pull
Entries 89
Mean 810.5
Std Dev 0
pull1D
Entries 89
Mean 0.004734
Std Dev 0.9913

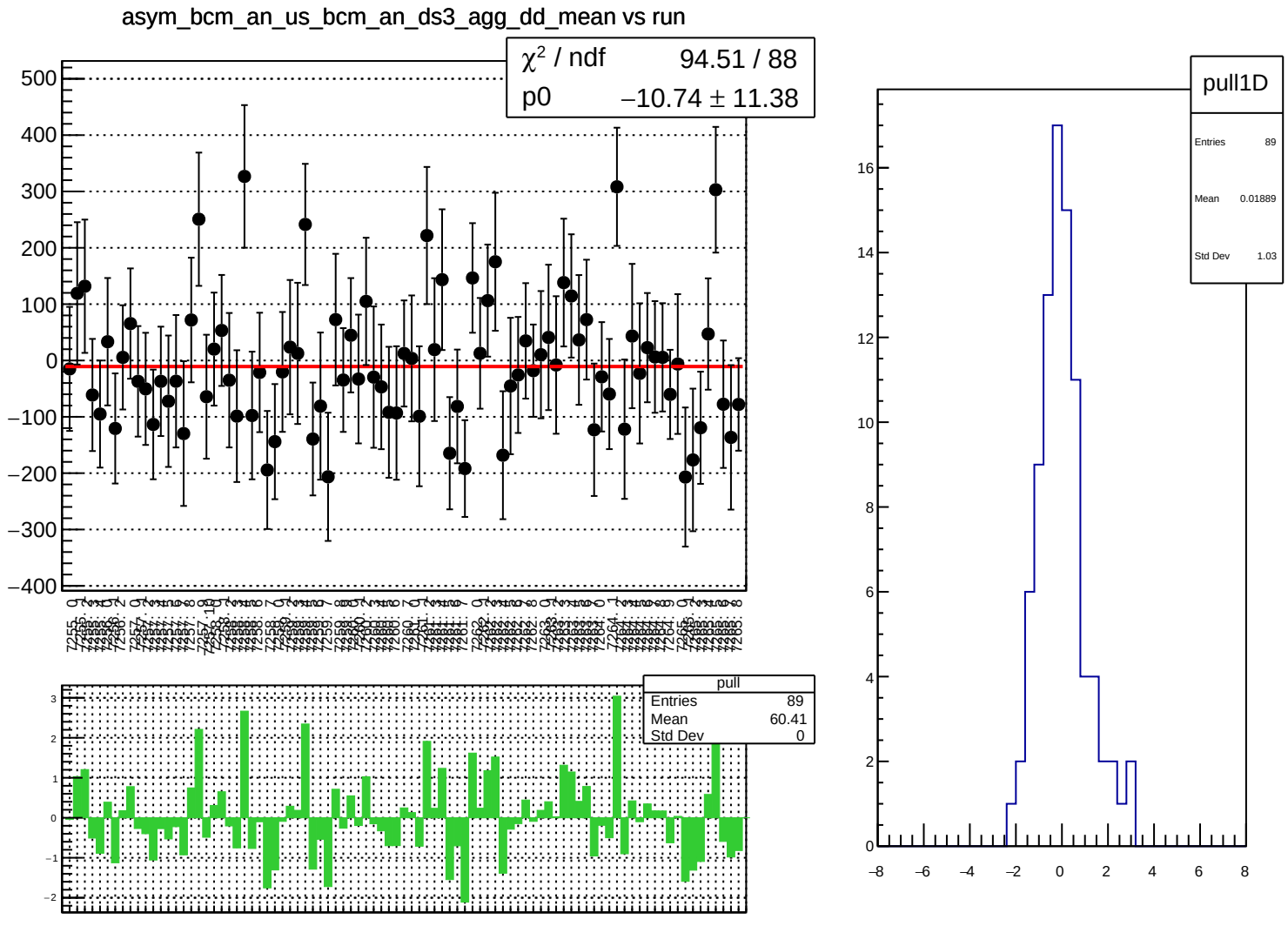

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 812 / 88
p0 21.94 ± 0.01686
23.5
23
22.5
22
21.5
21

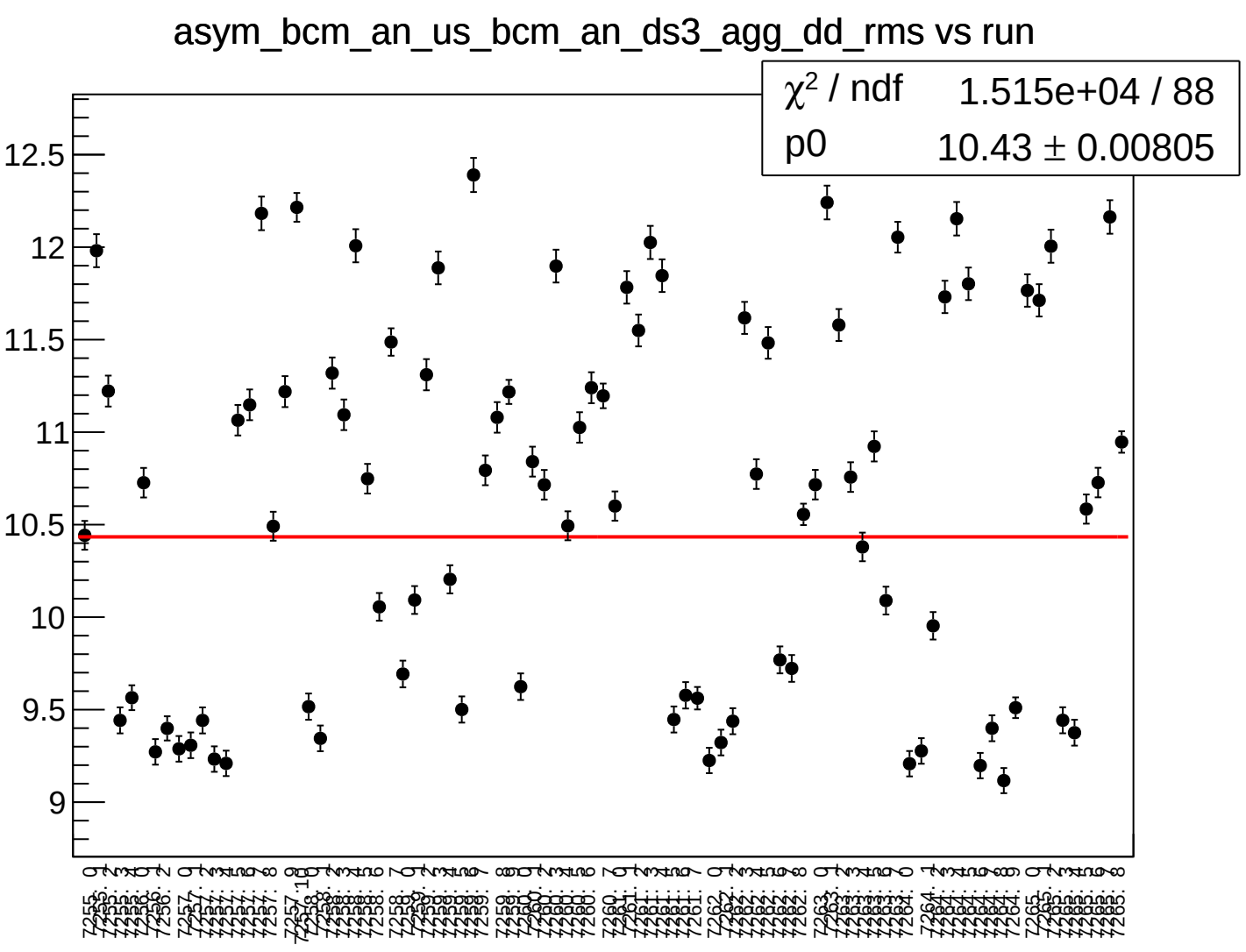

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 89.83 / 88
p0 −8.368 ± 11.98
pull
Entries 89
Mean −13.68
Std Dev 0
pull1D
Entries 89
Mean 0.01361
Std Dev 1.005

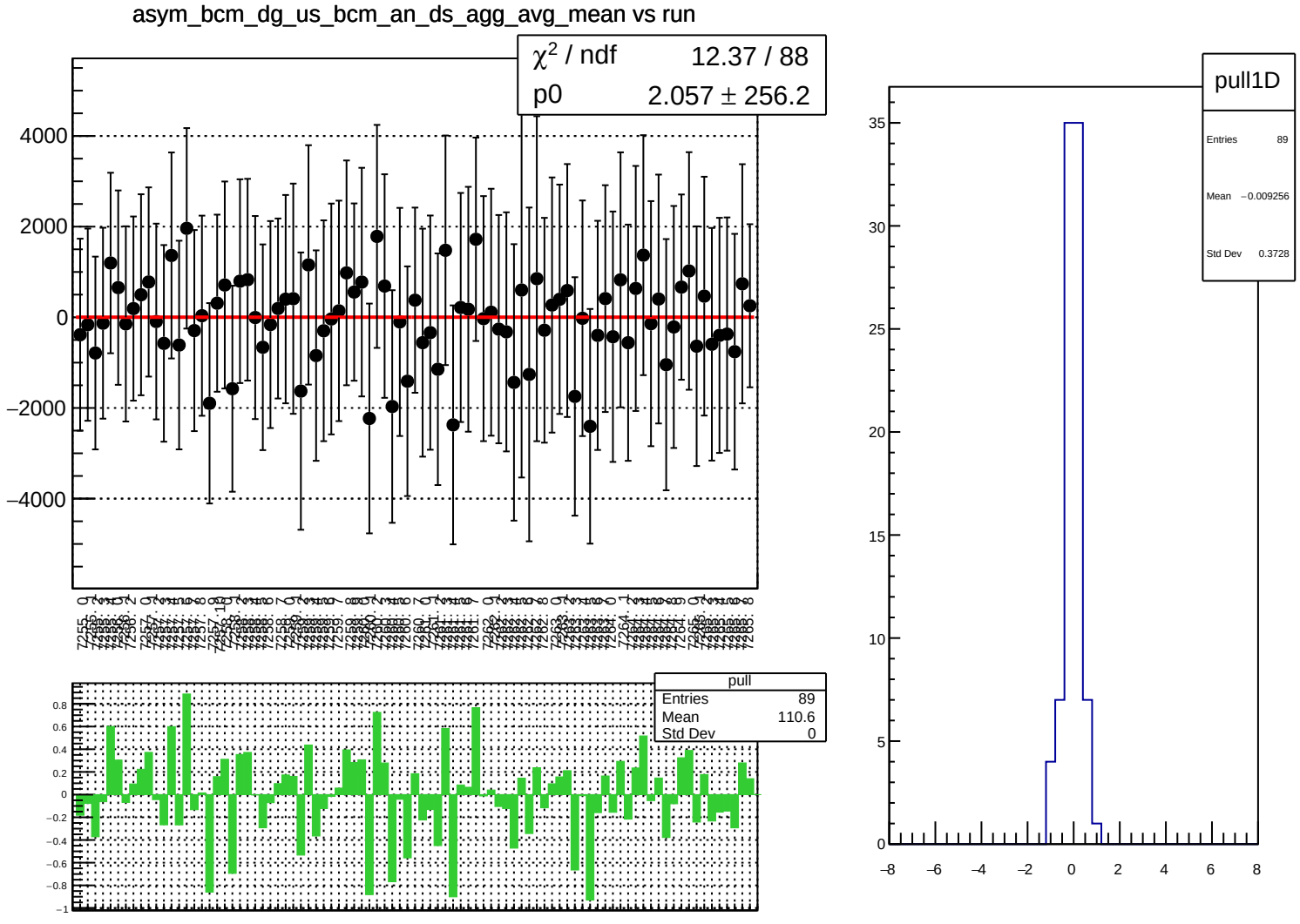

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.232e+04 / 88
p0 10.99 ± 0.00847
13
12.5
12
11.5
11
10.5
10
9.5

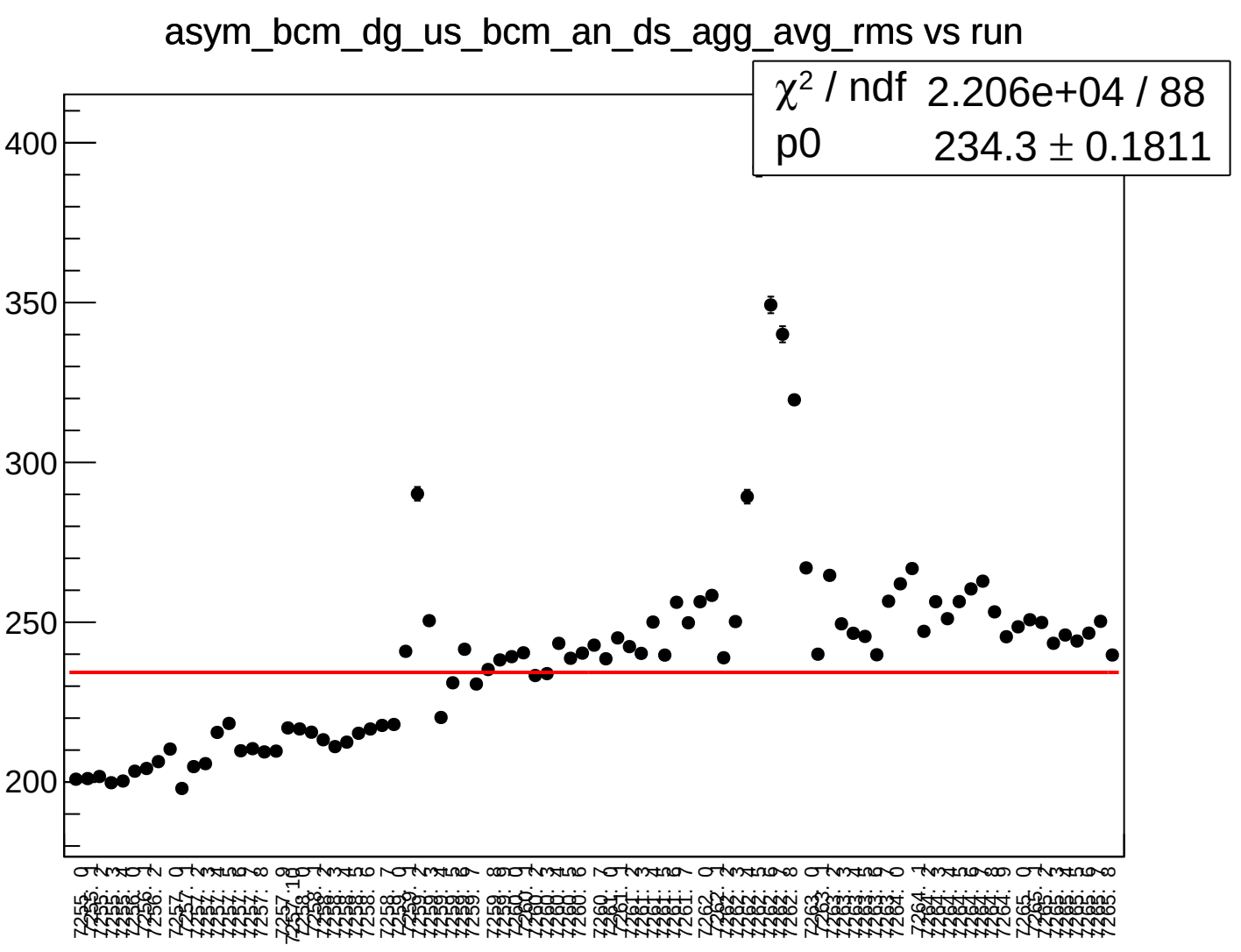

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 10.37 / 88
p0 −14.56 ± 255.4
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 90.51
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 89
Mean −0.006586
Std Dev 0.3412
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

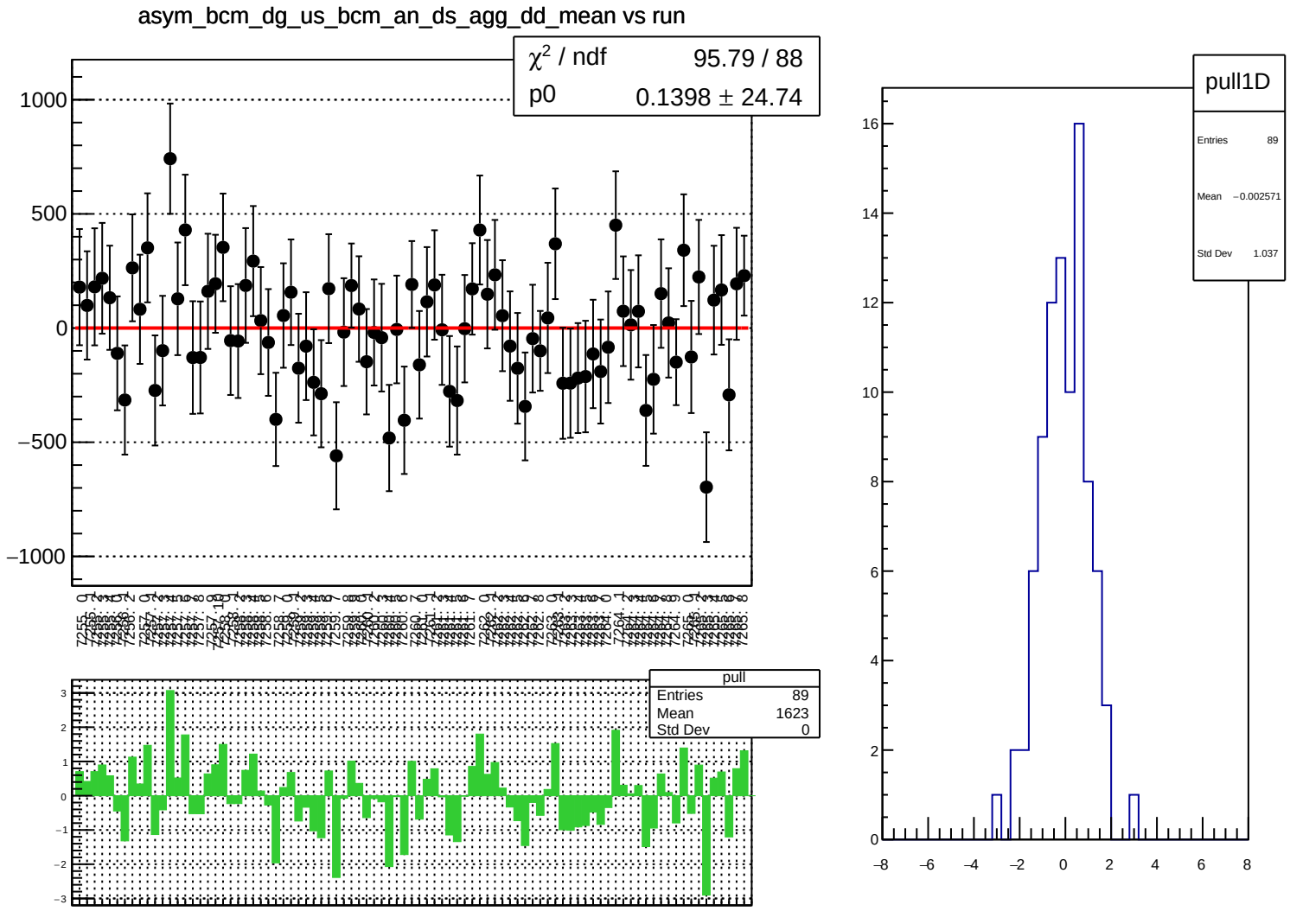

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2.264e+04 / 88
p0 233.6 ± 0.1806
400
350
300
250
200

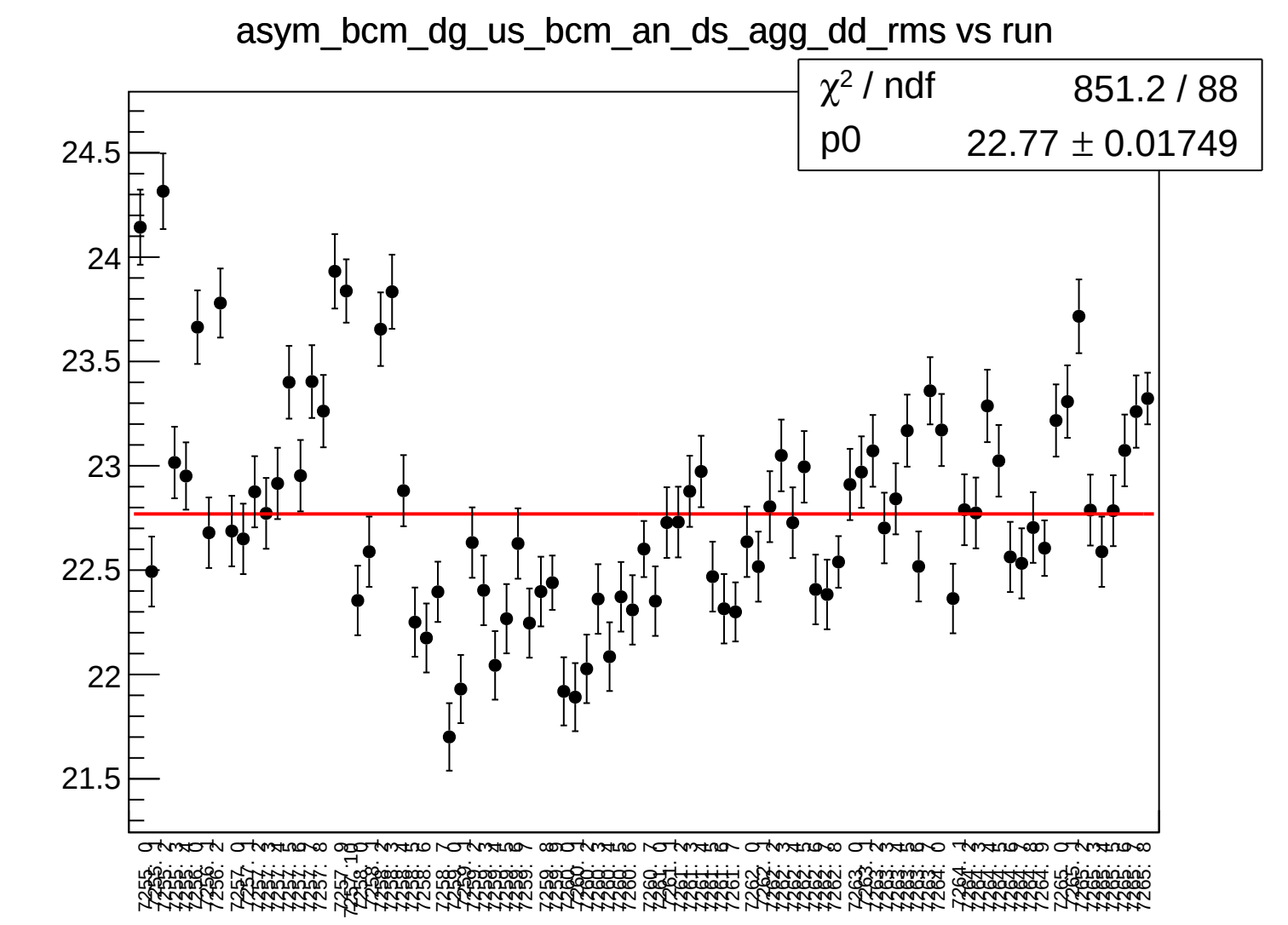

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 94.51 / 88
p0 −10.74 ± 11.38
pull
Entries 89
Mean 60.41
Std Dev 0
pull1D
Entries 89
Mean 0.01889
Std Dev 1.03

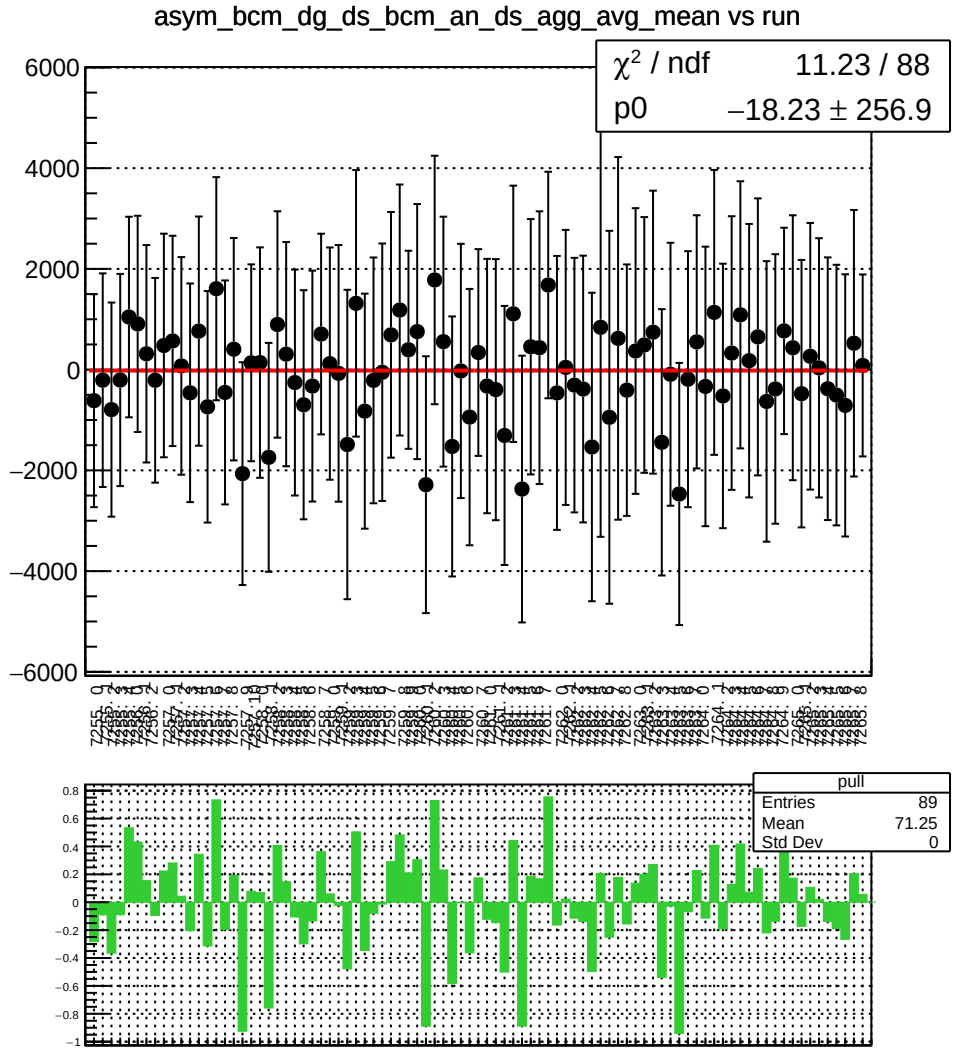

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.515e+04 / 88
p0 10.43 ± 0.00805
12.5
12
11.5
11
10.5
10
9.5
9

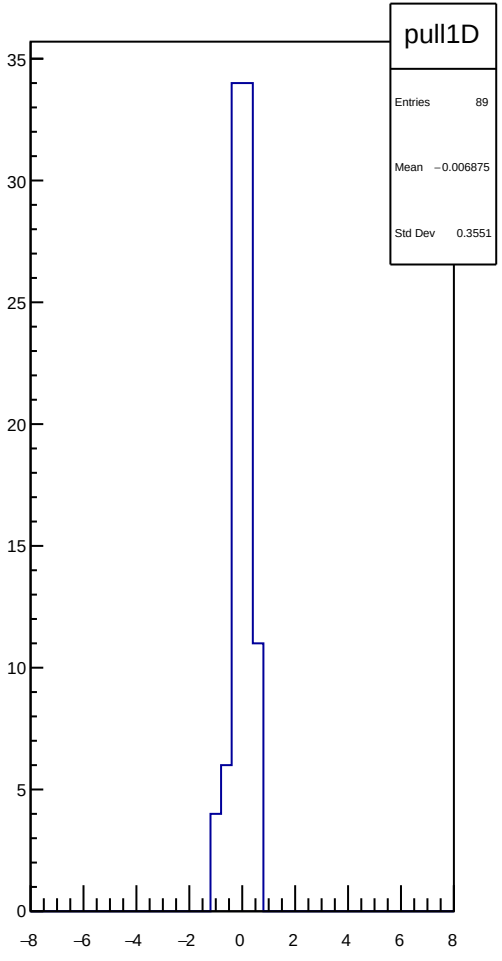

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.37 / 88
p0 2.057 ± 256.2
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 110.6
Std Dev 0
pull1D
Entries 89
Mean −0.009256
Std Dev 0.3728
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

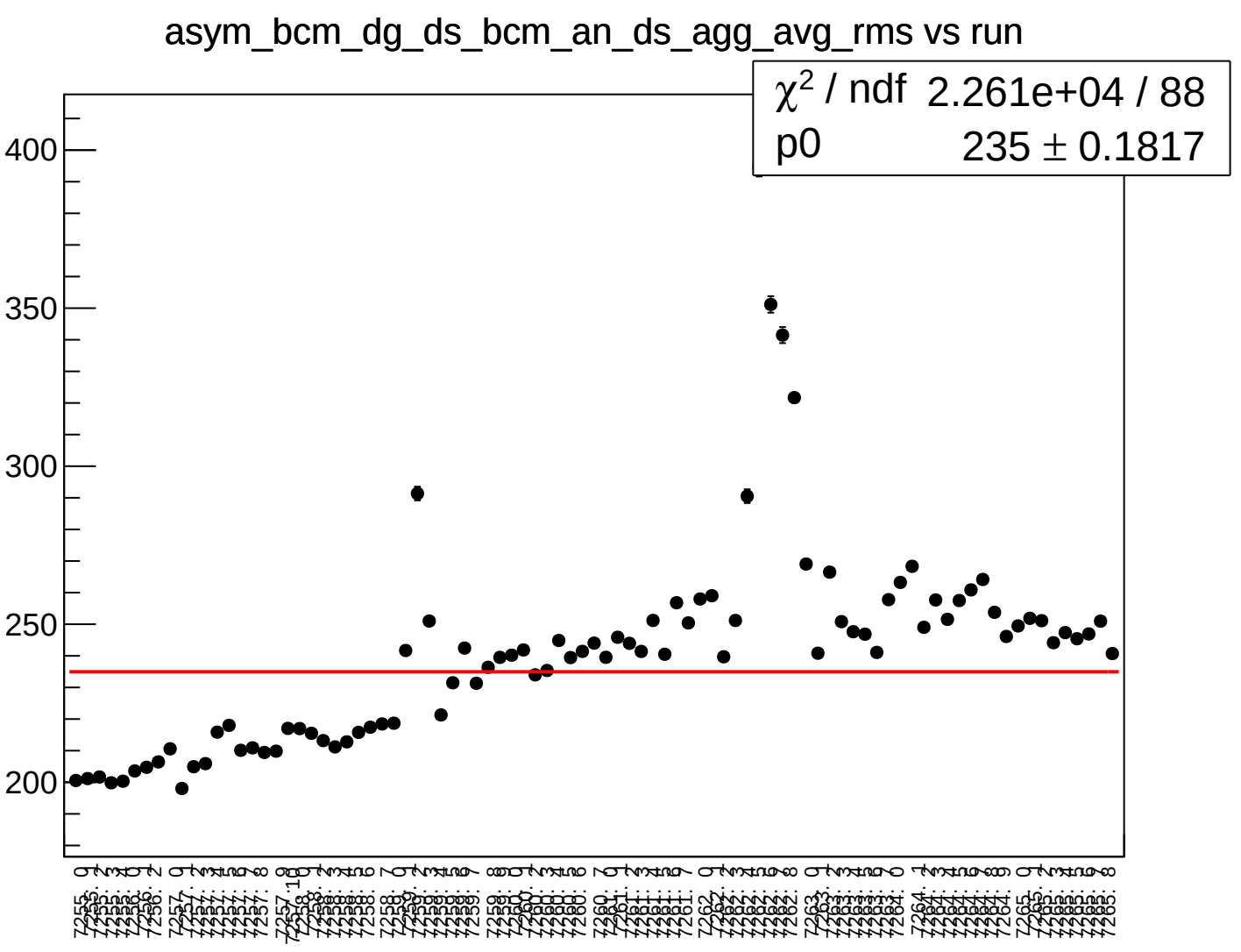

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.206e+04 / 88
p0 234.3 ± 0.1811
400
350
300
250
200

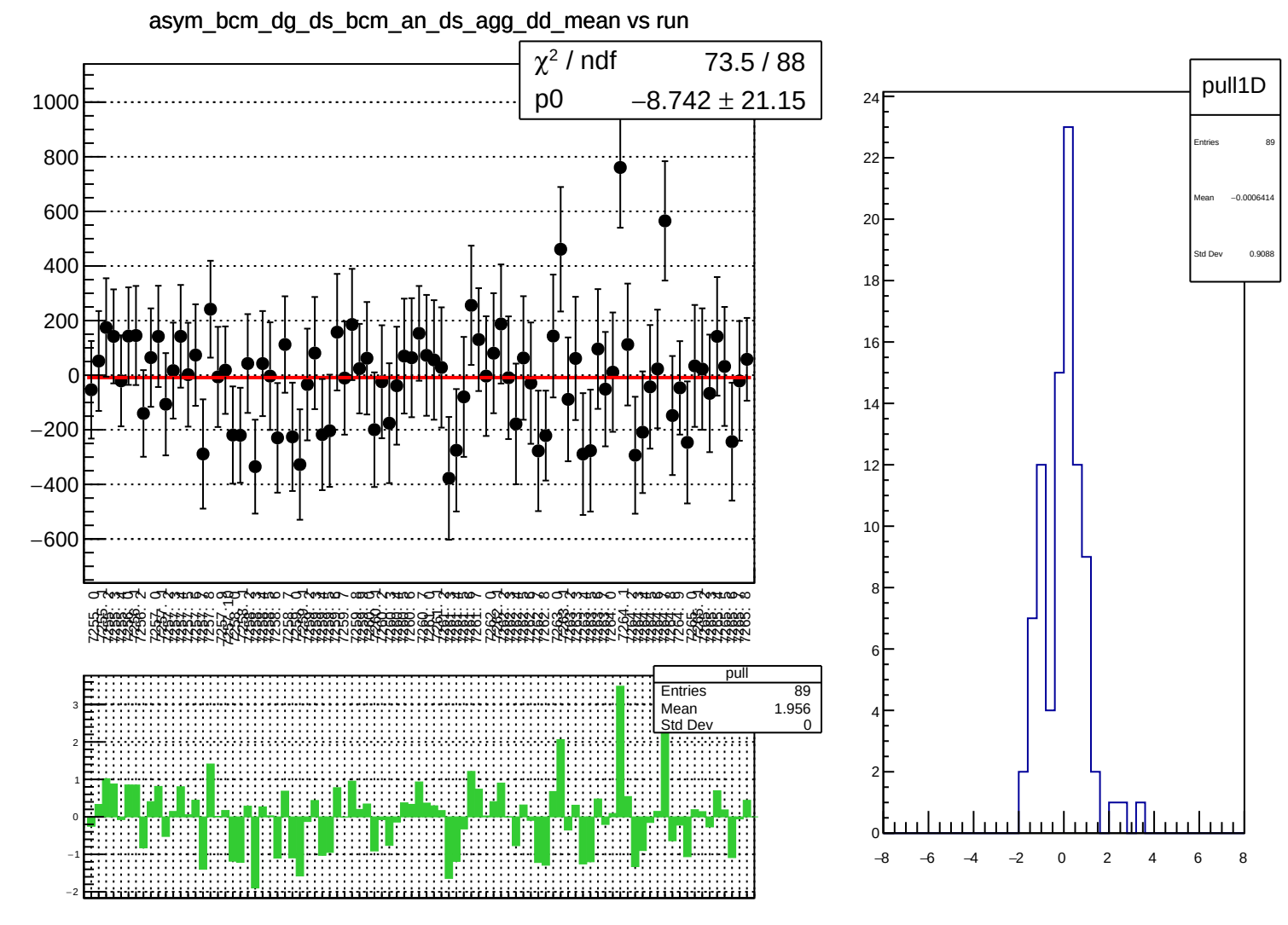

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 95.79 / 88
p0 0.1398 ± 24.74
1000
500
0
−500
−1000
pull
Entries 89
Mean 1623
Std Dev 0
pull1D
Entries 89
Mean −0.002571
Std Dev 1.037

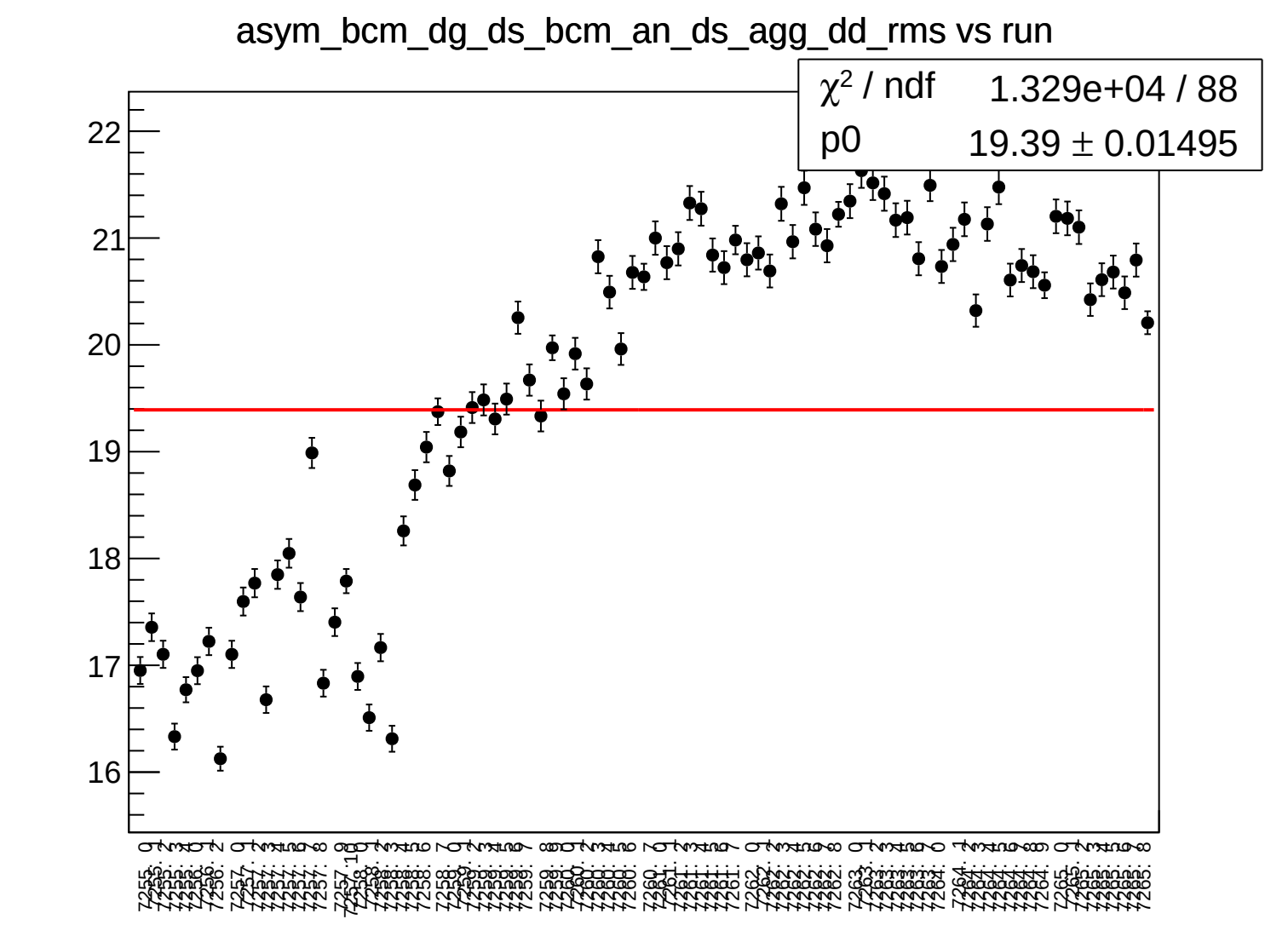

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 851.2 / 88
p0 22.77 ± 0.01749
24.5
24
23.5
23
22.5
22
21.5

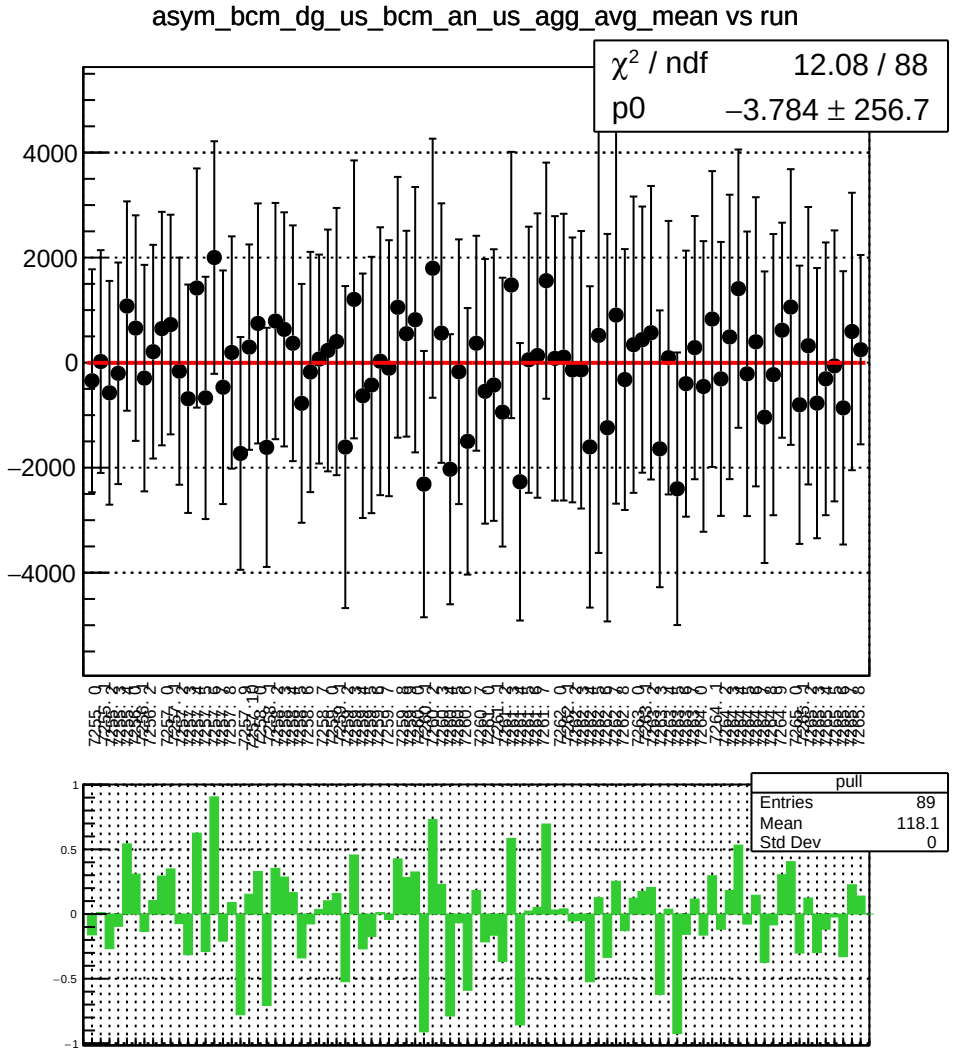

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.23 / 88
p0 −18.23 ± 256.9
pull
Entries 89
Mean 71.25
Std Dev 0

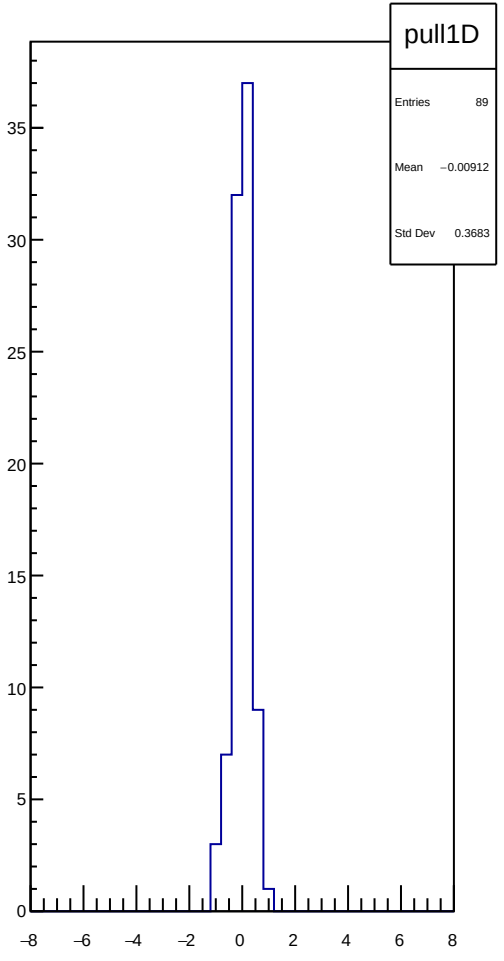

pull1D
Entries 89
Mean −0.006875
Std Dev 0.3551

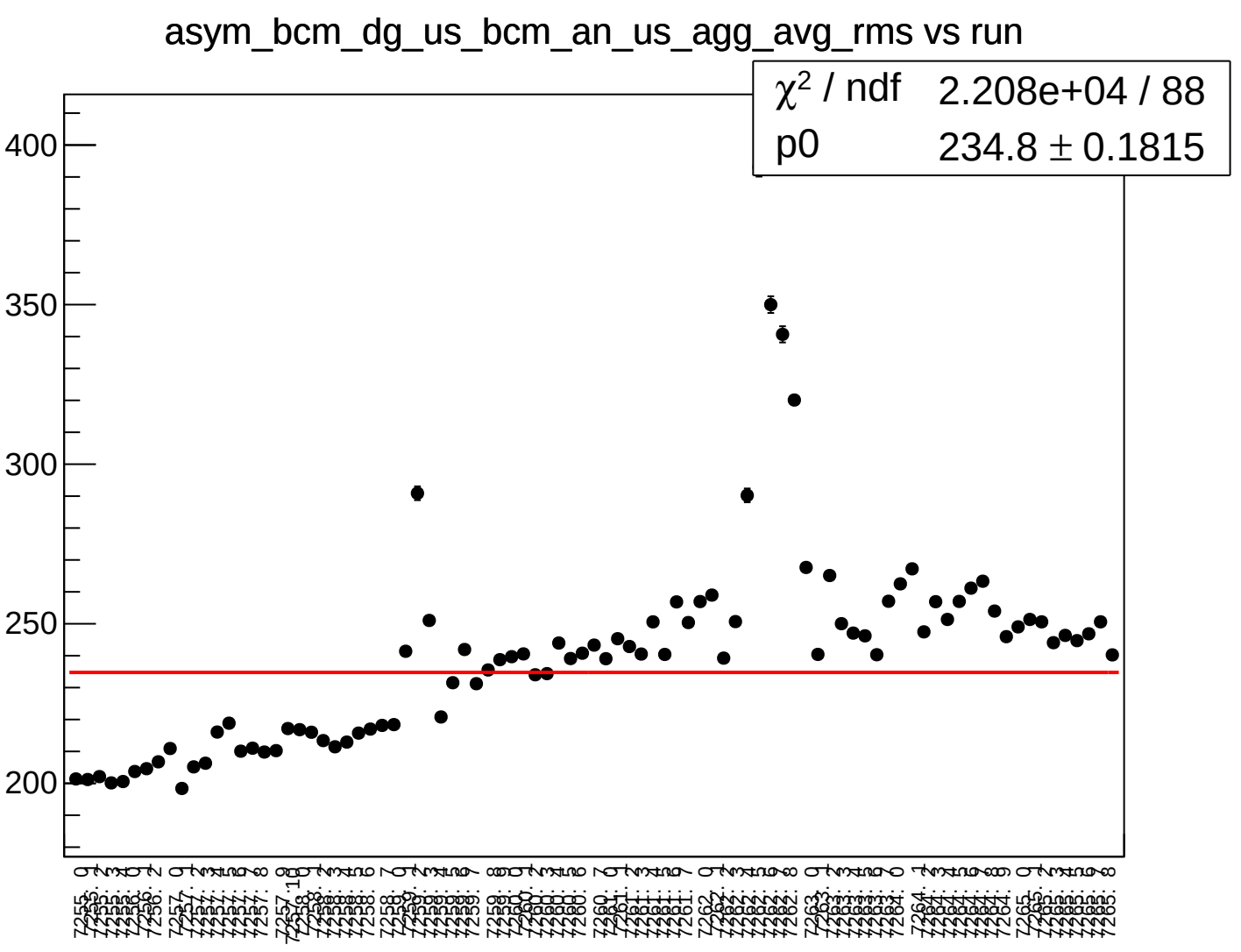

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.261e+04 / 88
p0 235 ± 0.1817
400
350
300
250
200

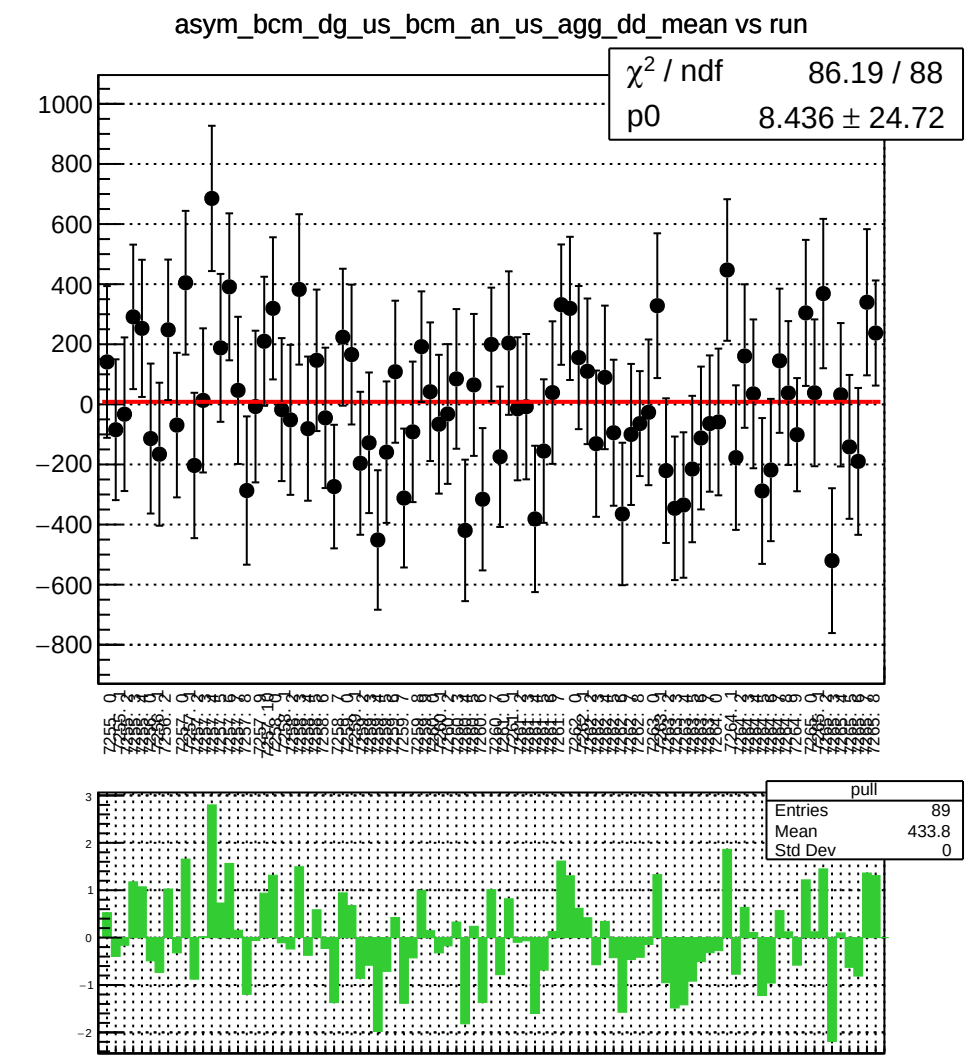

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 73.5 / 88
p0 −8.742 ± 21.15
pull
Entries 89
Mean 1.956
Std Dev 0
pull1D
Entries 89
Mean −0.0006414
Std Dev 0.9088

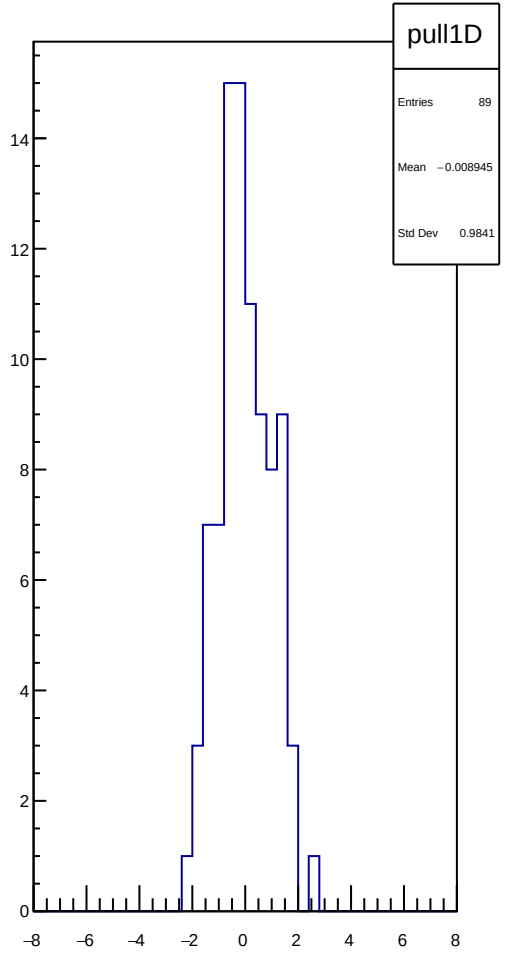

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.329e+04 / 88
p0 19.39 ± 0.01495
22
21
20
19
18
17
16

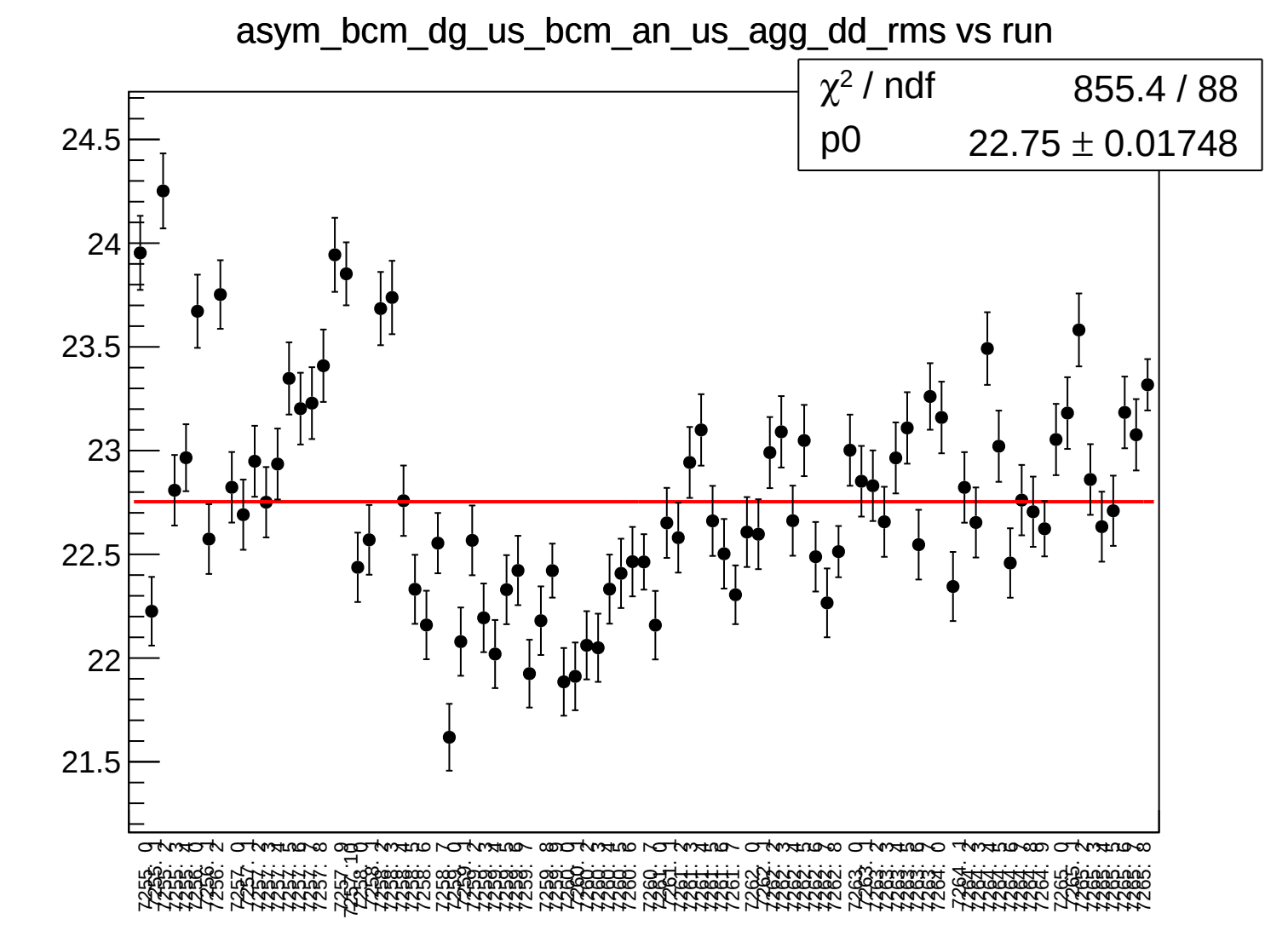

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 12.08 / 88
p0 −3.784 ± 256.7
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 118.1
Std Dev 0
1
0.5
0
−0.5
−1

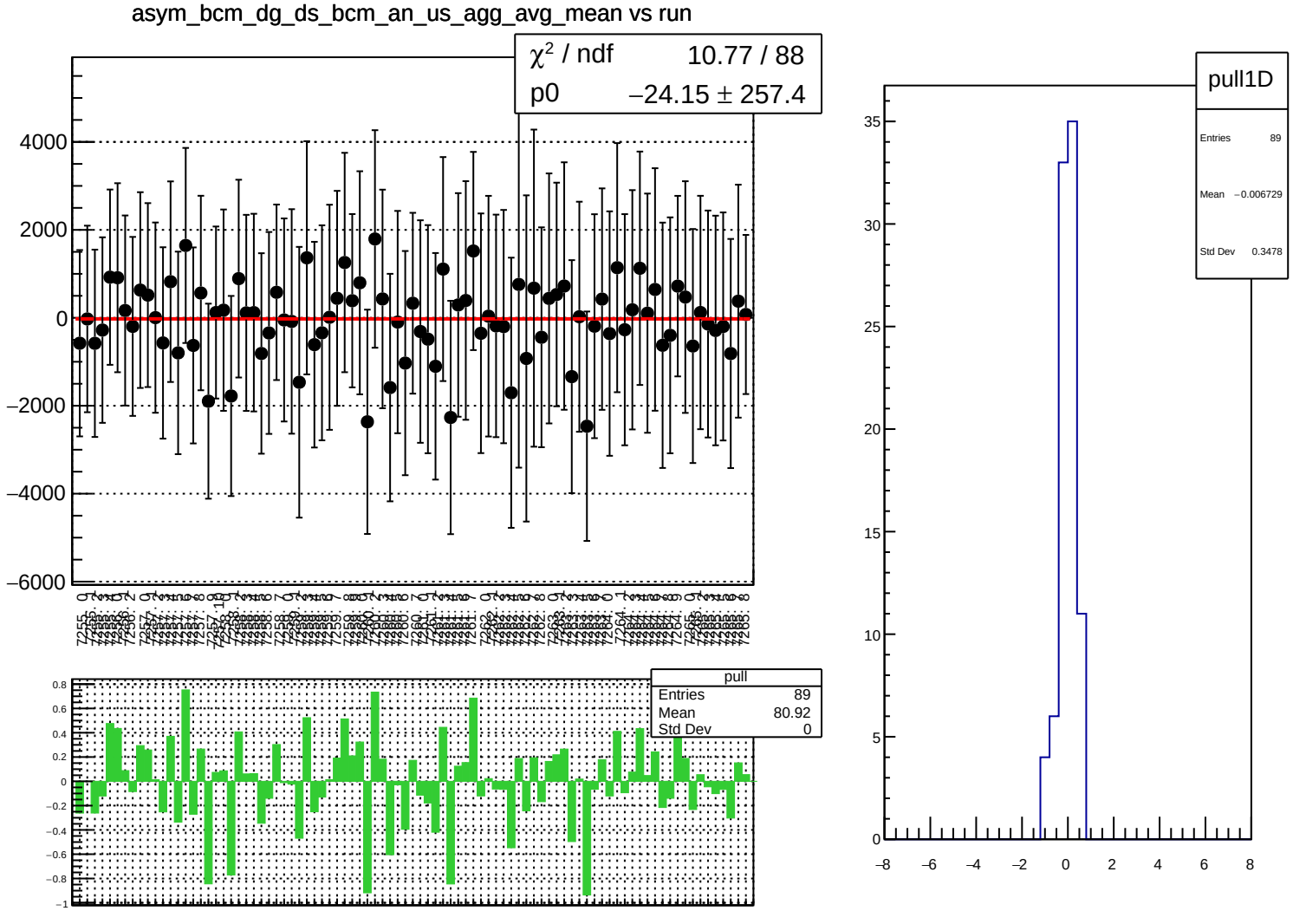

pull1D
Entries 89
Mean −0.00912
Std Dev 0.3683
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

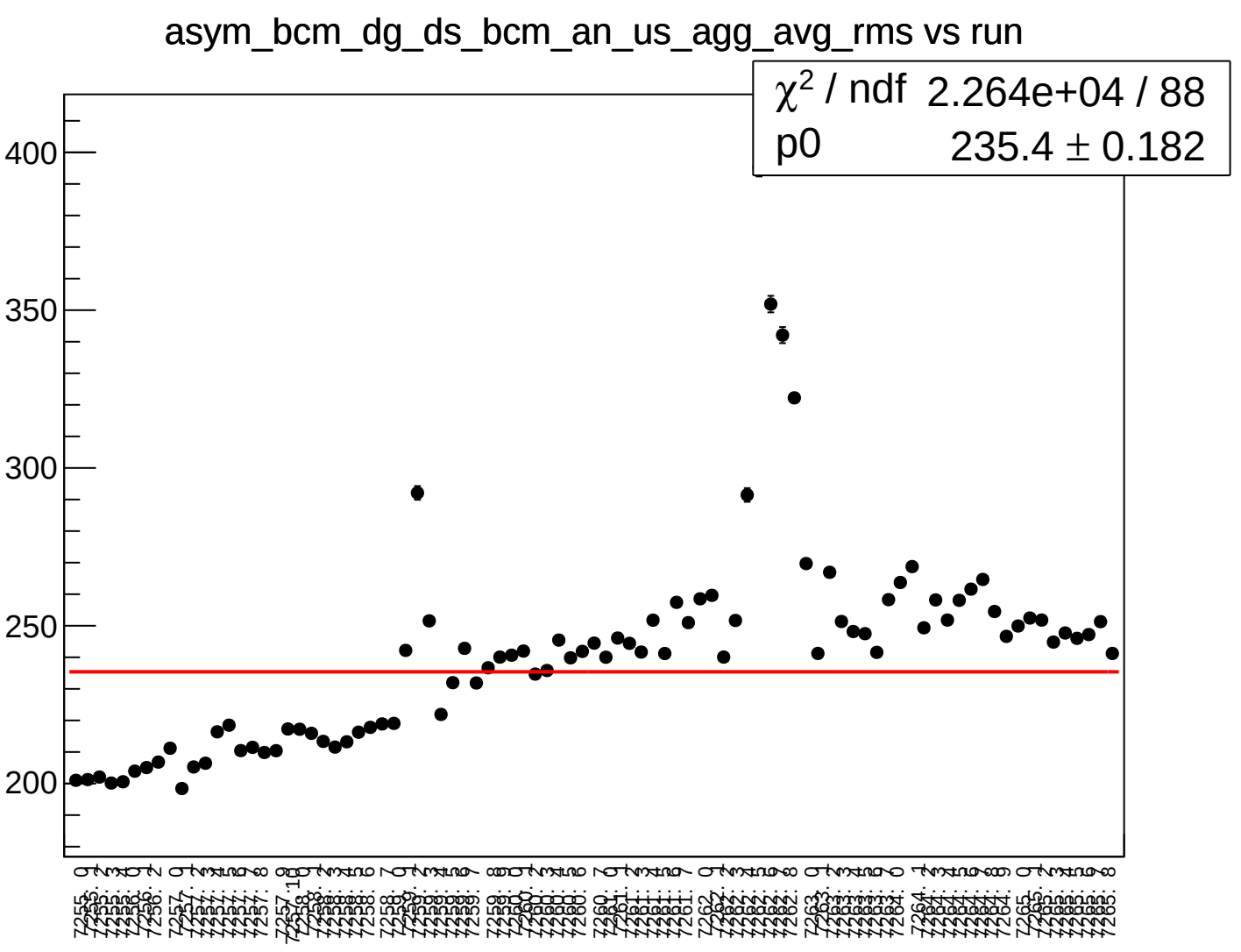

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.208e+04 / 88
p0 234.8 ± 0.1815
400
350
300
250
200

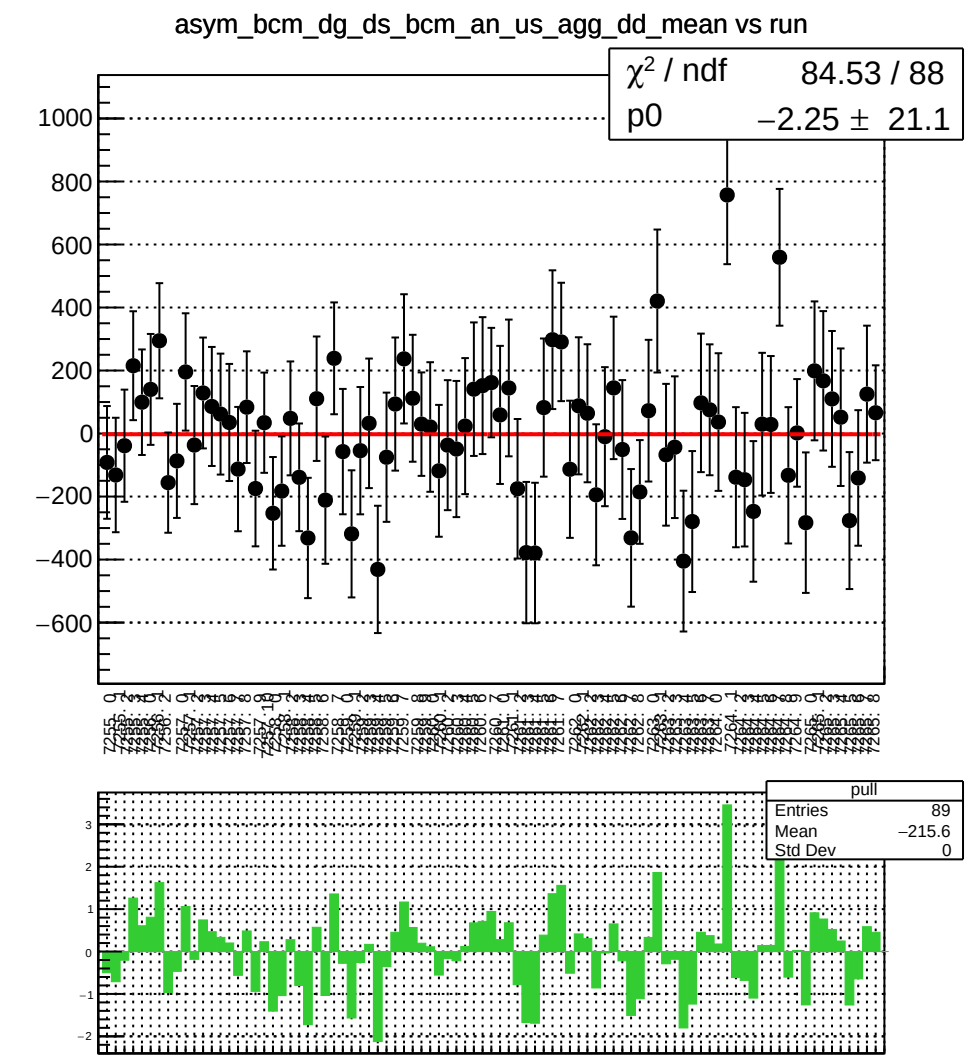

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 86.19 / 88
p0 8.436 ± 24.72
pull
Entries 89
Mean 433.8
Std Dev 0

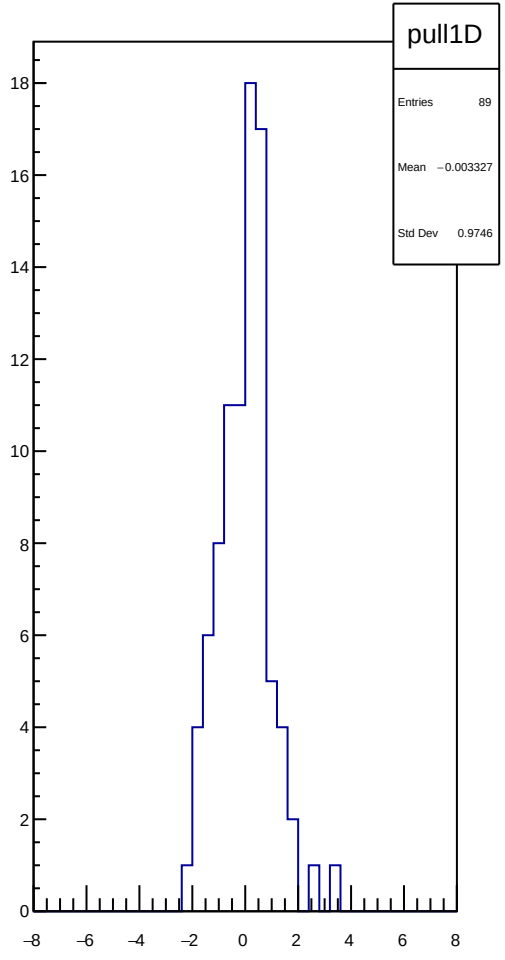

pull1D
Entries 89
Mean −0.008945
Std Dev 0.9841

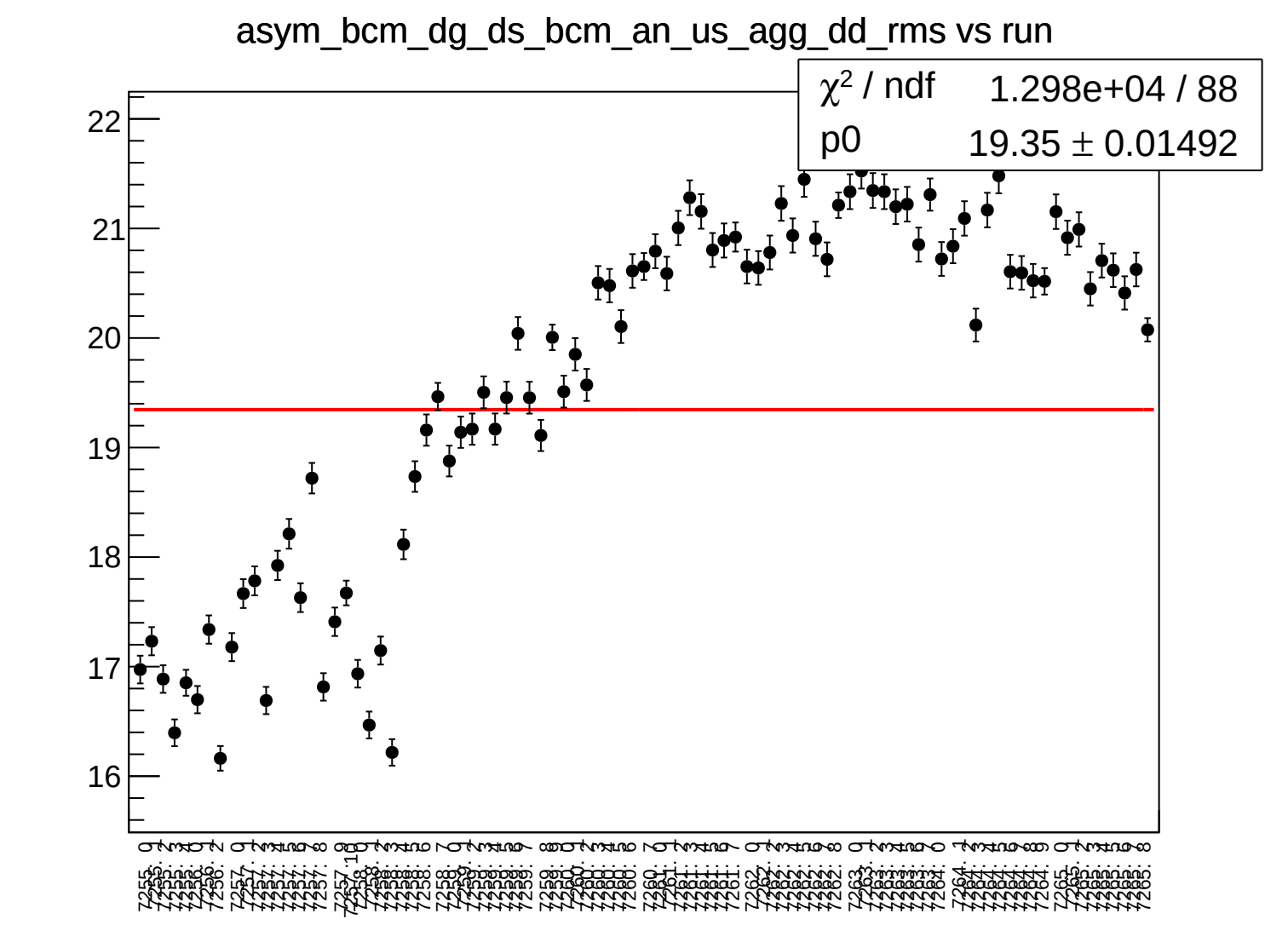

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 855.4 / 88
p0 22.75 ± 0.01748
24.5
24
23.5
23
22.5
22
21.5

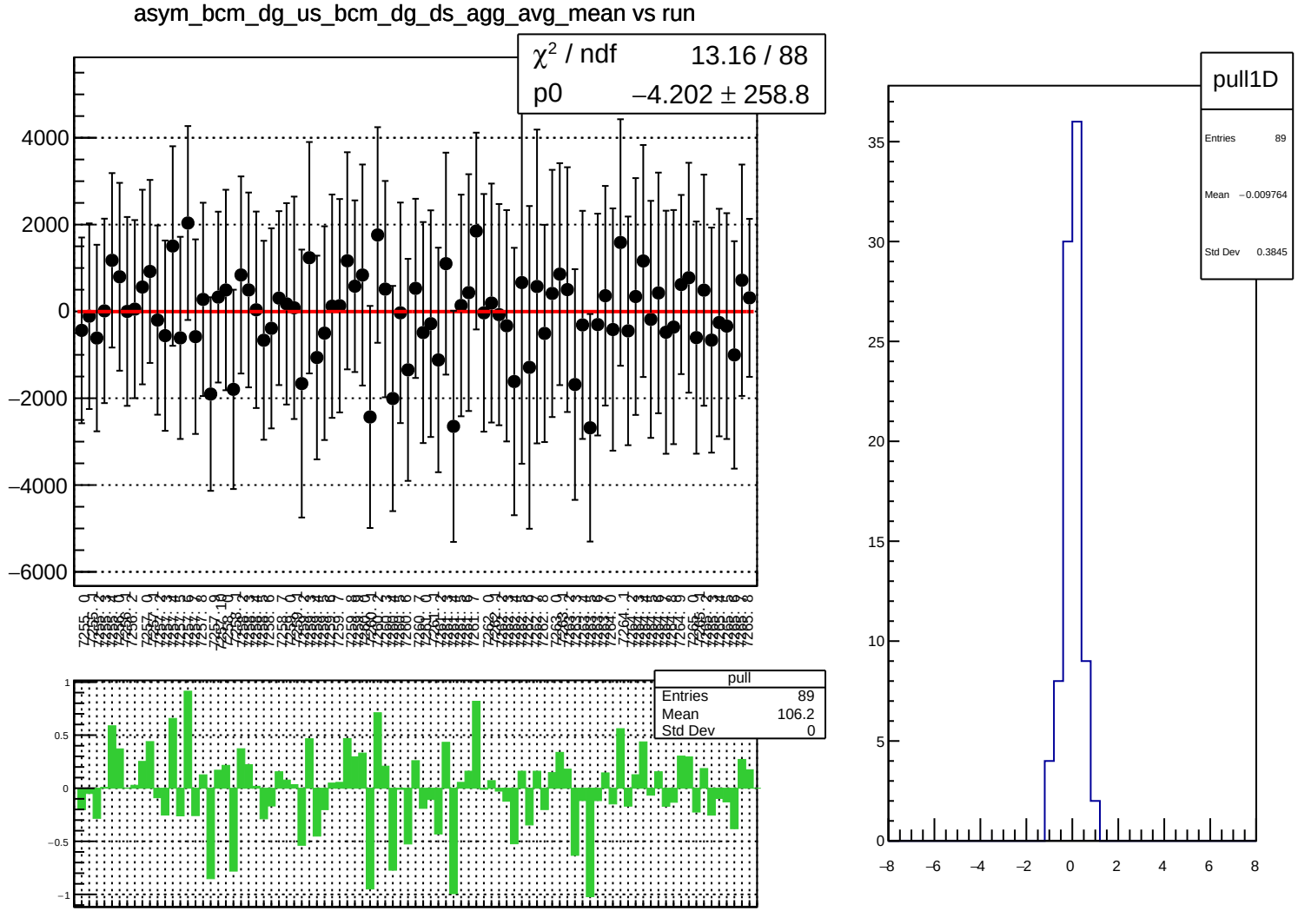

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.77 / 88
p0 −24.15 ± 257.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 80.92
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 89
Mean −0.006729
Std Dev 0.3478
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

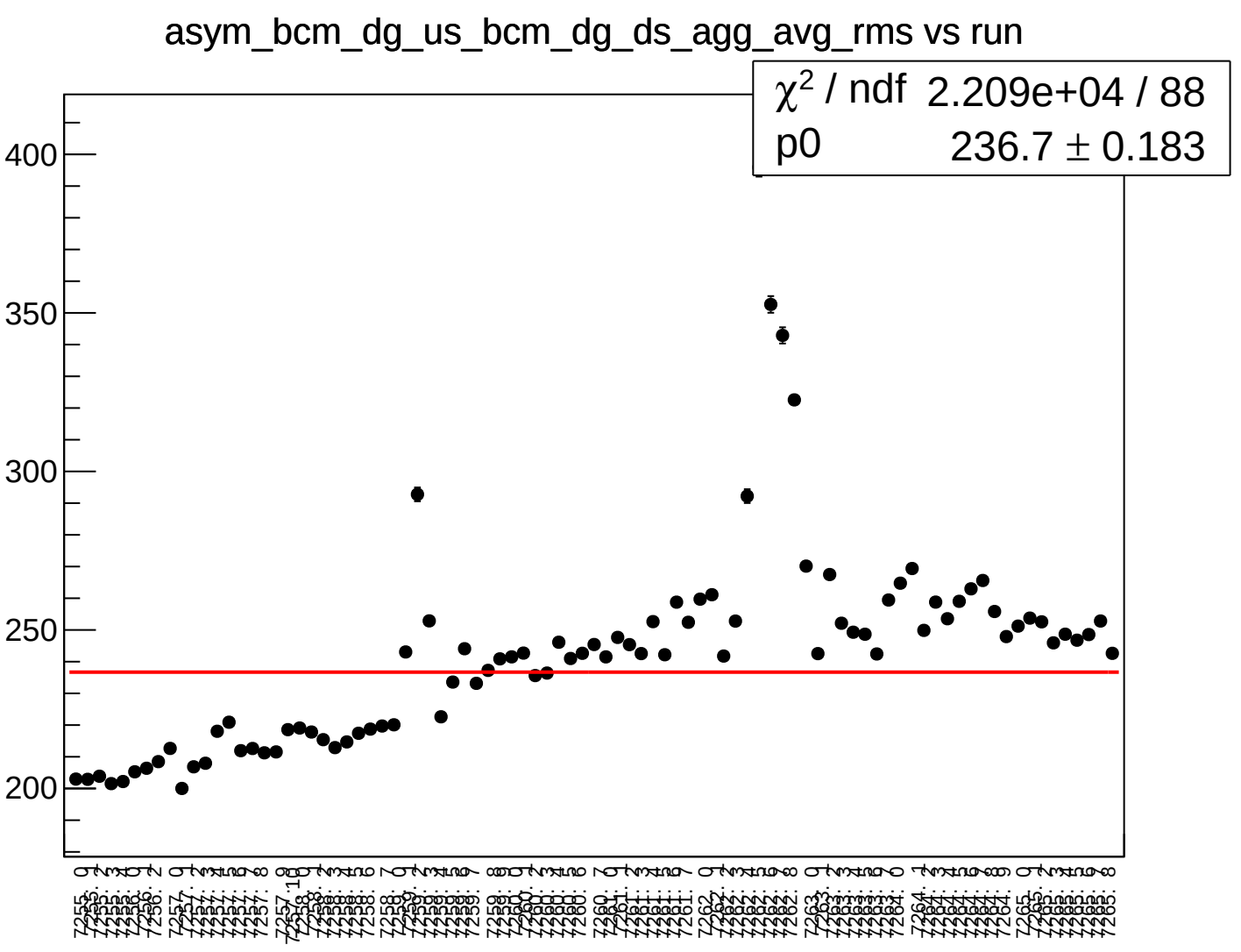

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.264e+04 / 88
p0 235.4 ± 0.182
400
350
300
250
200

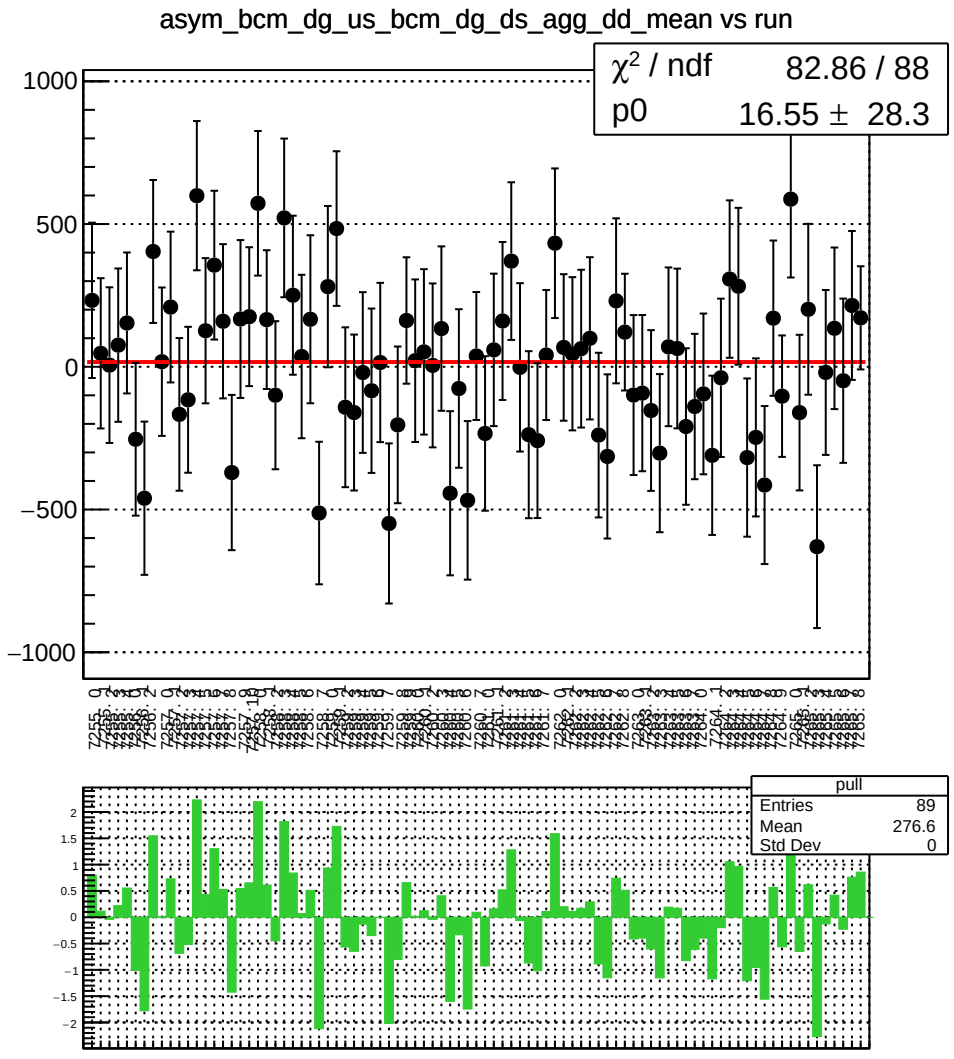

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 84.53 / 88
p0 −2.25 ± 21.1
1000
800
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean −215.6
Std Dev 0
3
2
1
0
−1
−2

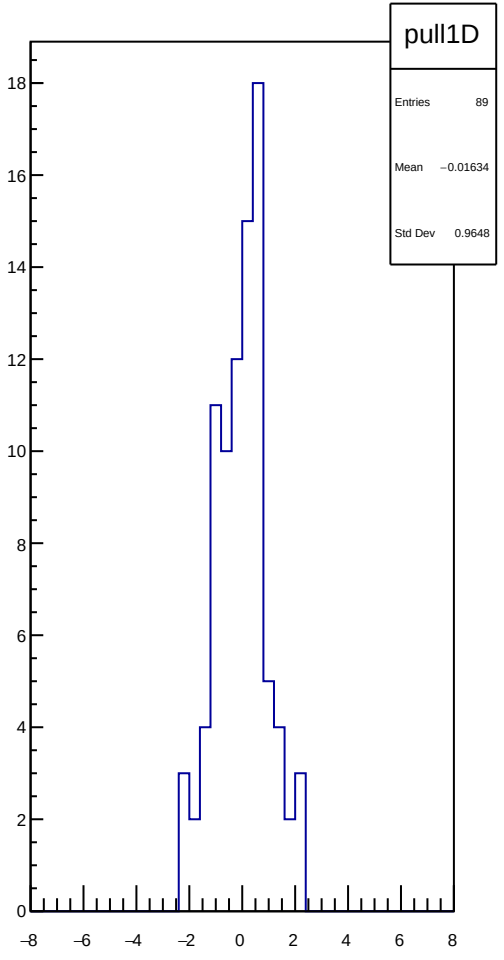

pull1D
Entries 89
Mean −0.003327
Std Dev 0.9746
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

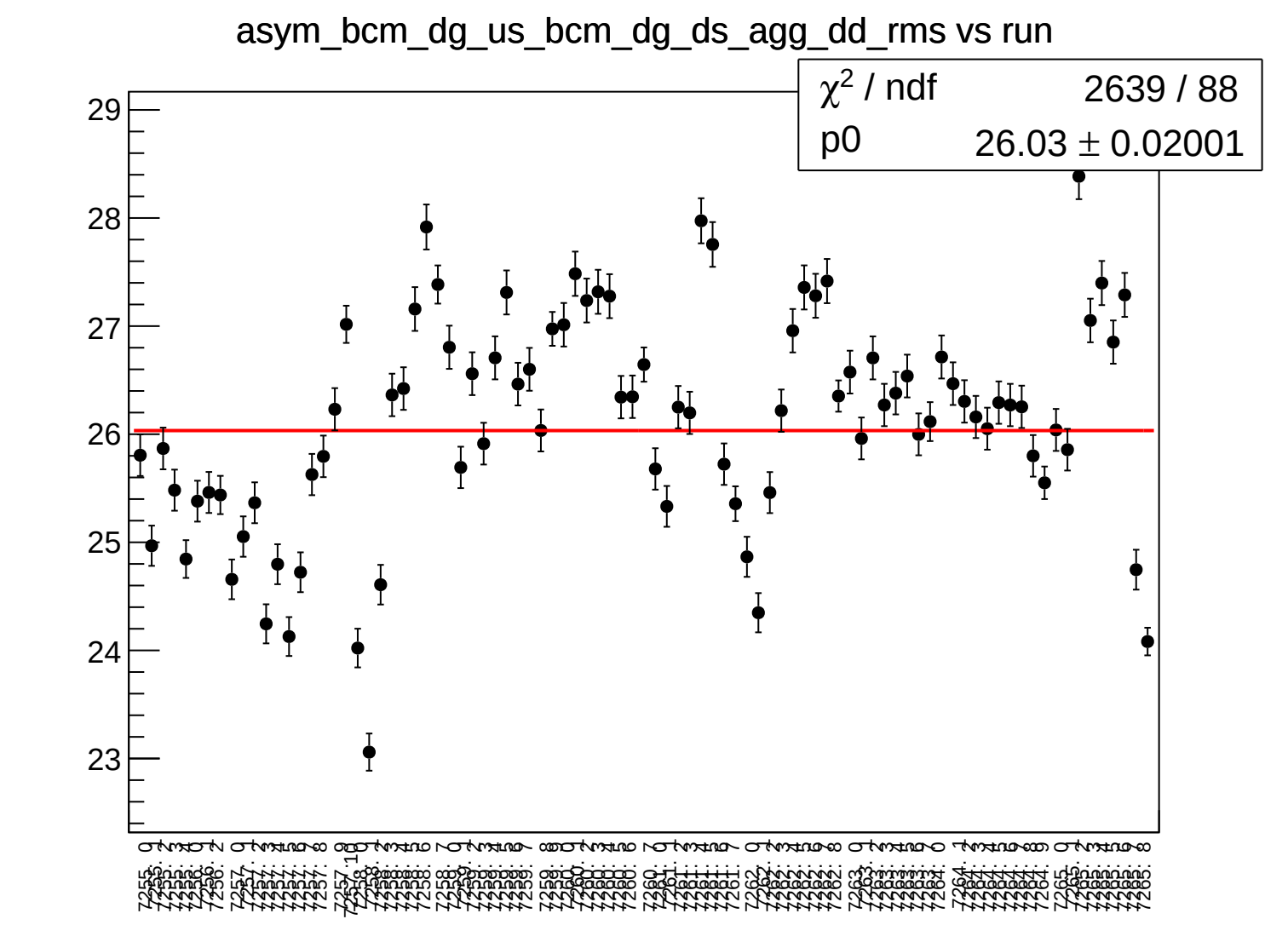

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.298e+04 / 88
p0 19.35 ± 0.01492
22
21
20
19
18
17
16

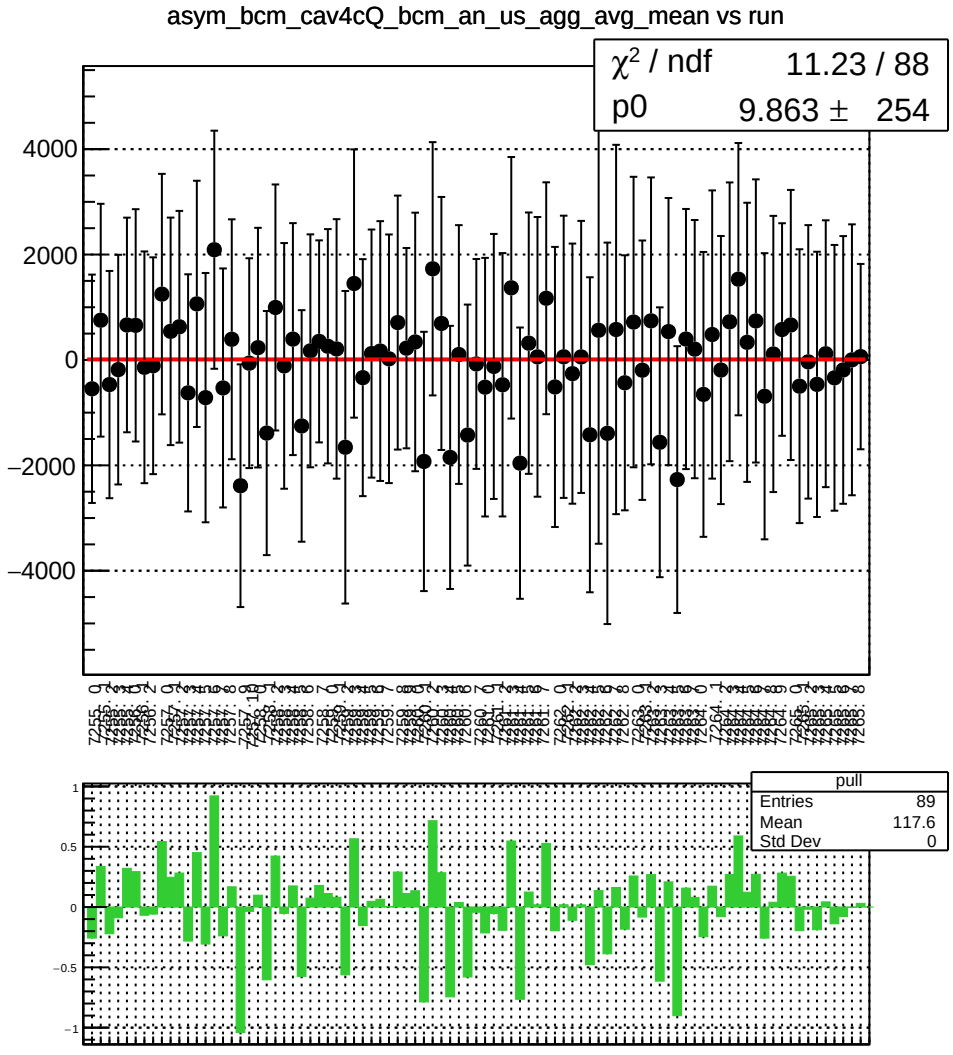

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 13.16 / 88
p0 −4.202 ± 258.8
pull
Entries 89
Mean 106.2
Std Dev 0
pull1D
Entries 89
Mean −0.009764
Std Dev 0.3845

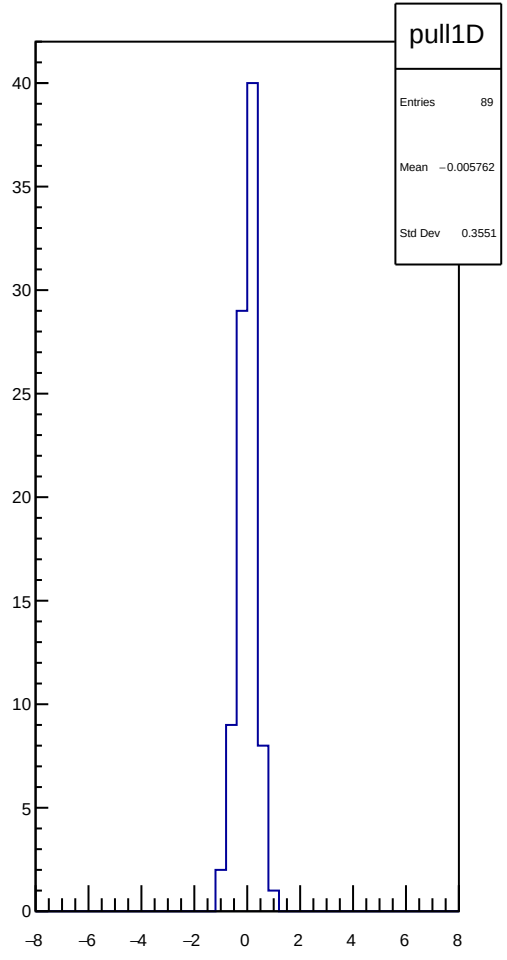

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.209e+04 / 88
p0 236.7 ± 0.183
400
350
300
250
200

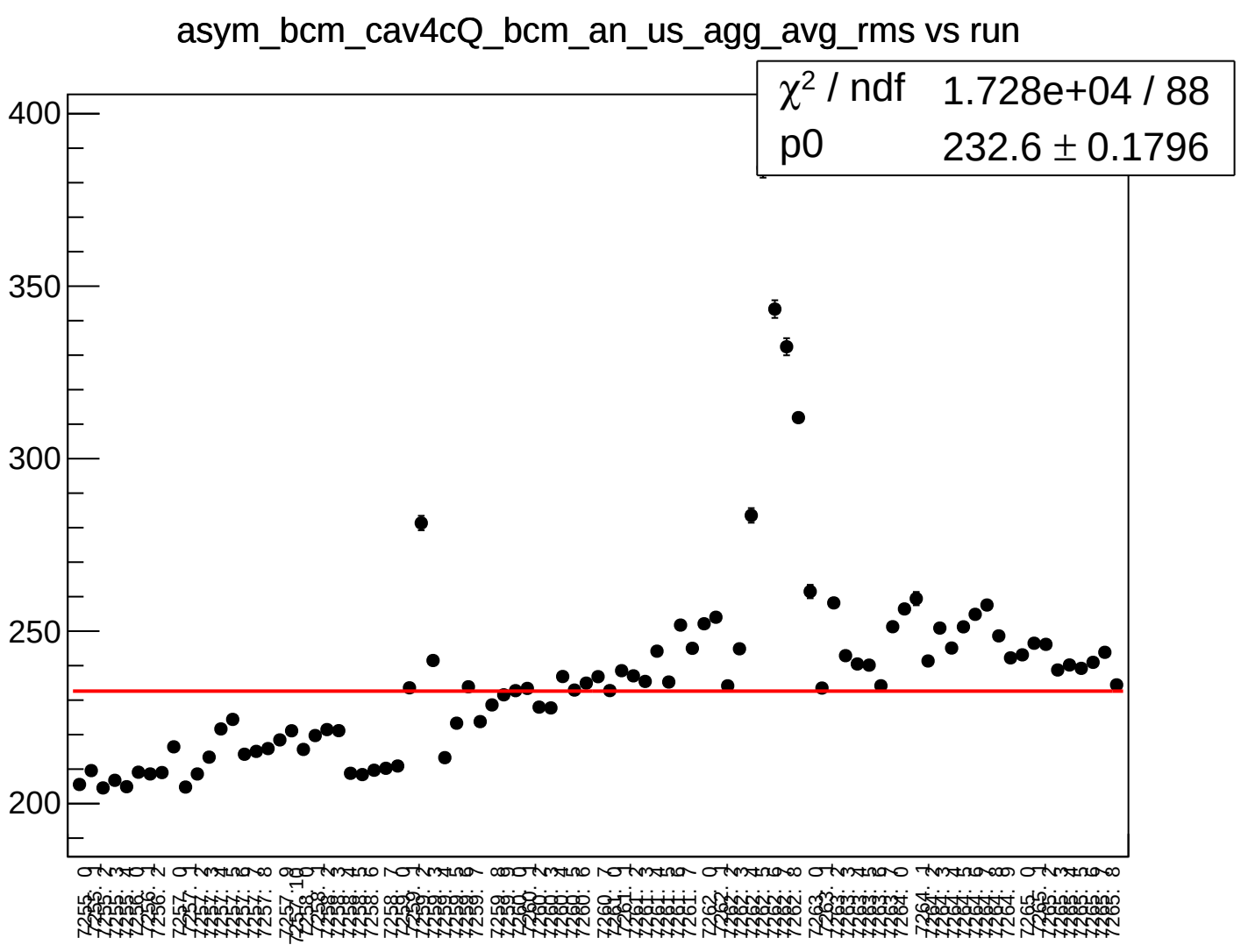

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 82.86 / 88
p0 16.55 ± 28.3
1000
500
0
−500
−1000
pull
Entries 89
Mean 276.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

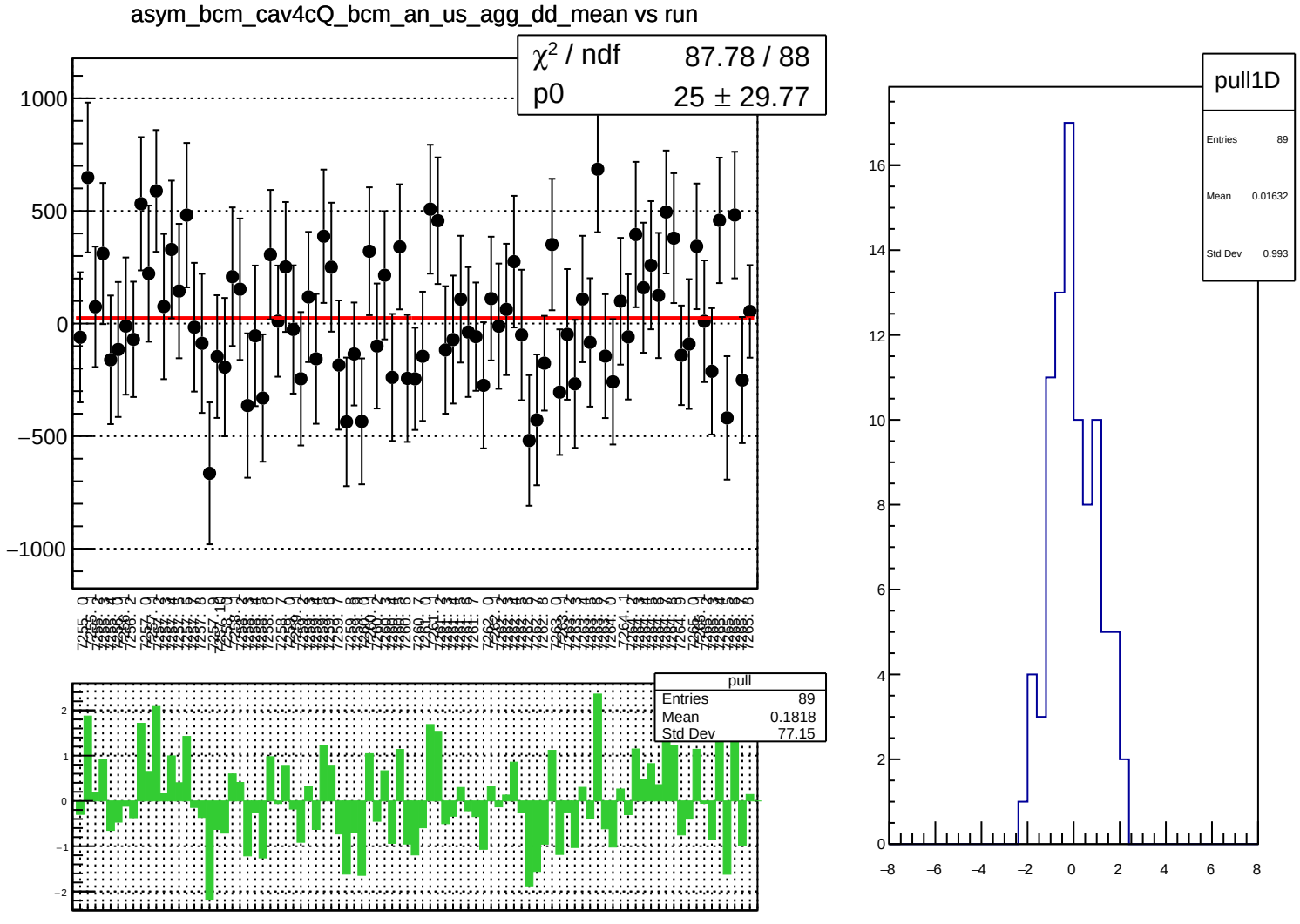

pull1D
Entries 89
Mean −0.01634
Std Dev 0.9648
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

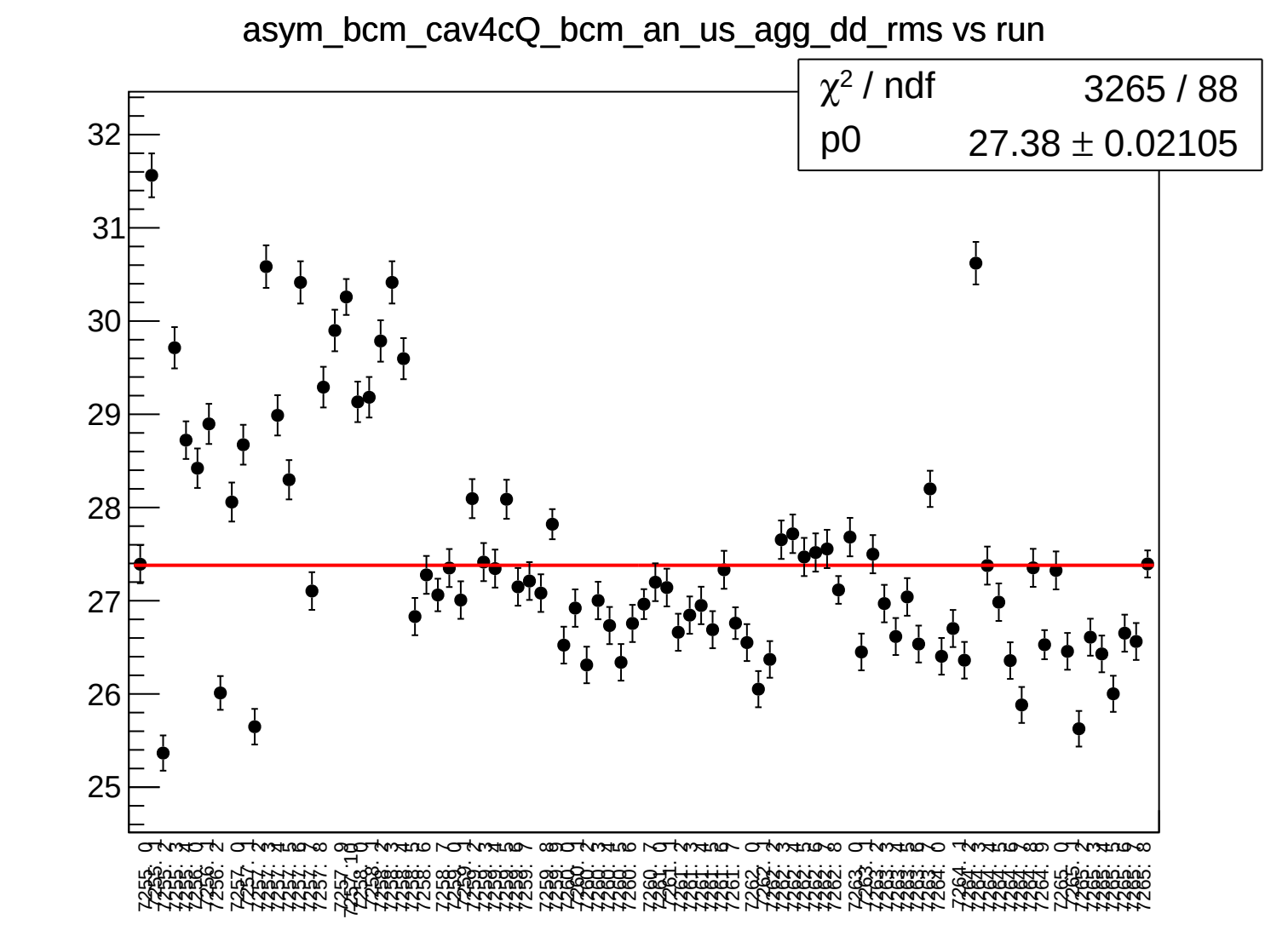

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2639 / 88
p0 26.03 ± 0.02001
29
28
27
26
25
24
23

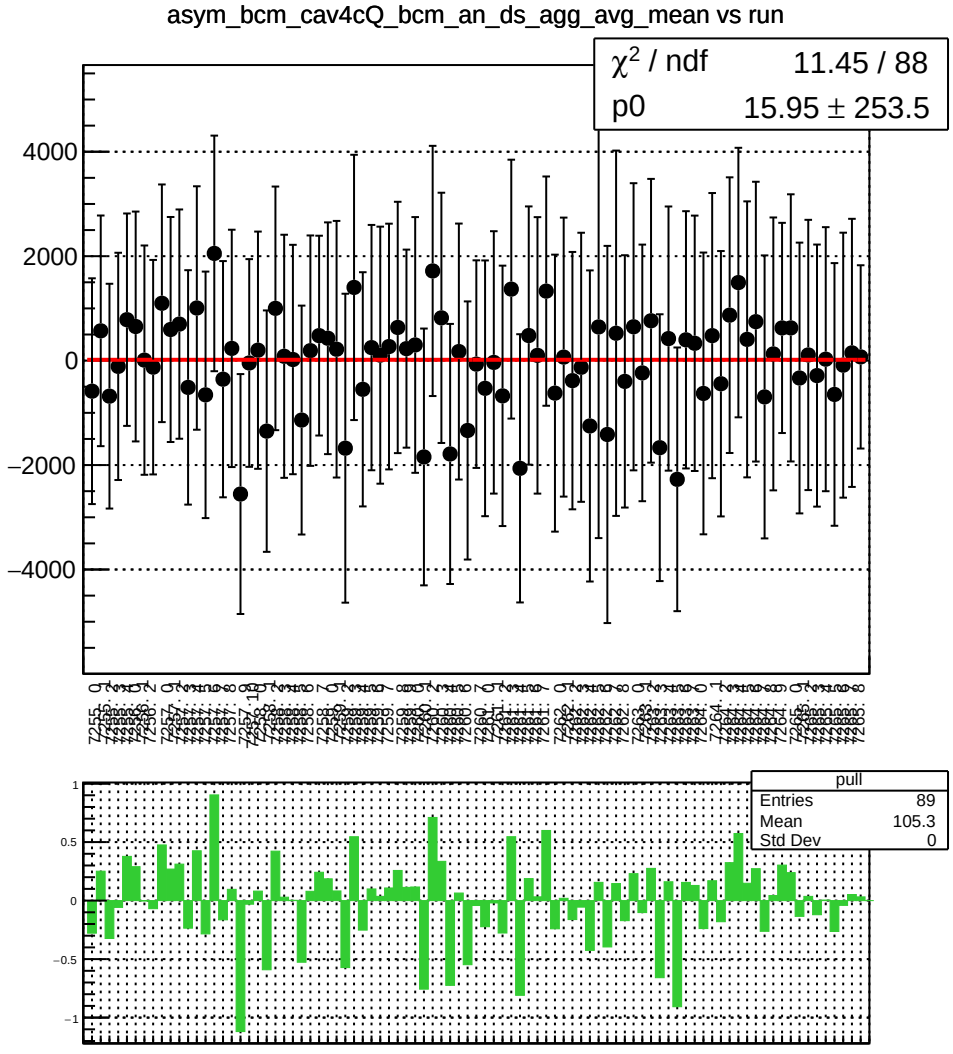

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 11.23 / 88
p0 9.863 ± 254
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 117.6
Std Dev 0
1
0.5
0
−0.5
−1

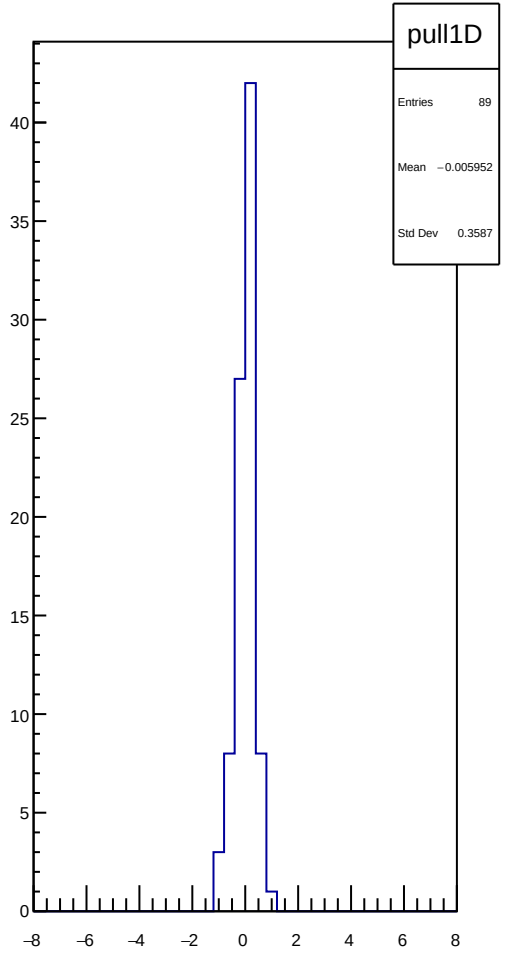

pull1D
Entries 89
Mean −0.005762
Std Dev 0.3551
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

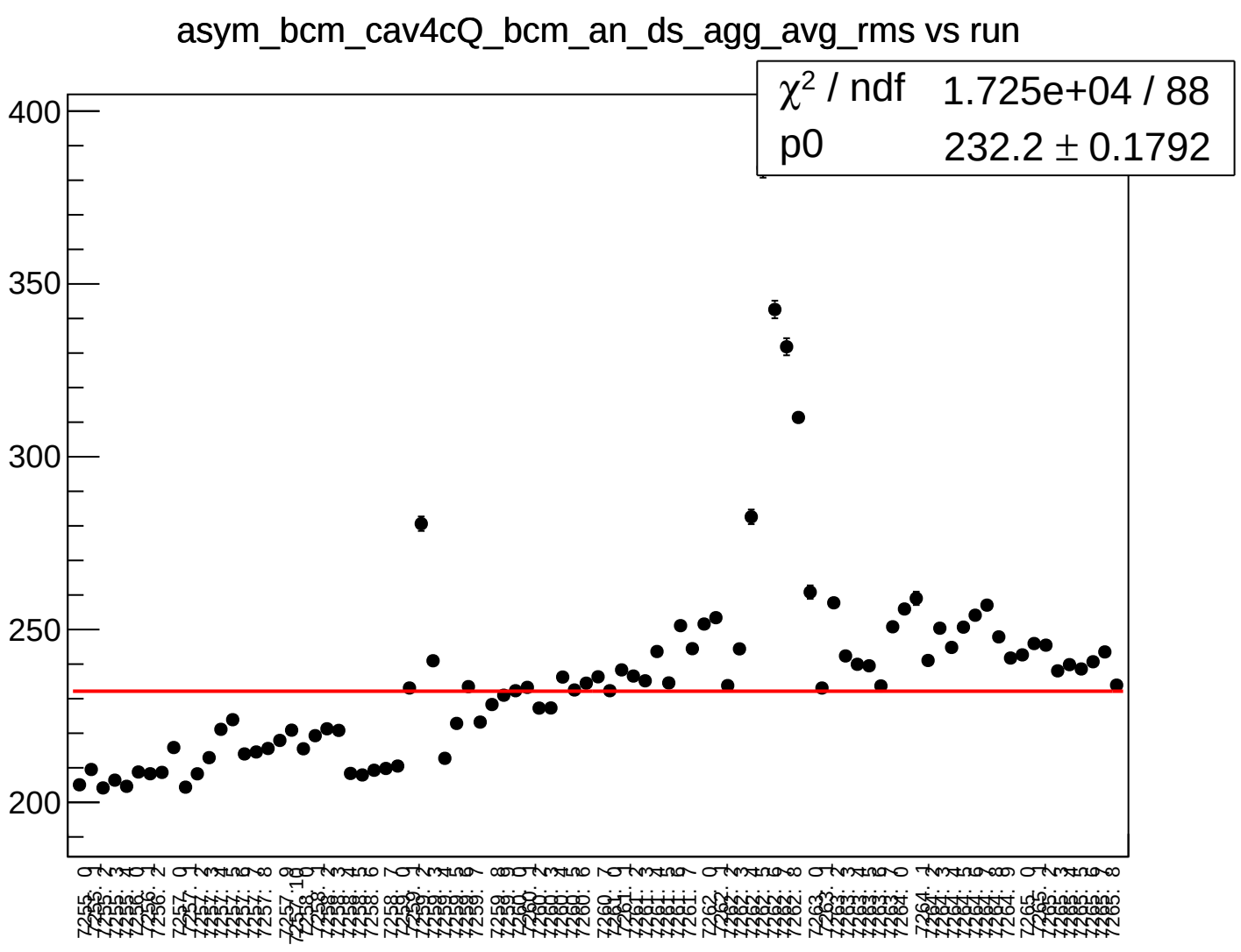

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.728e+04 / 88
p0 232.6 ± 0.1796
400
350
300
250
200

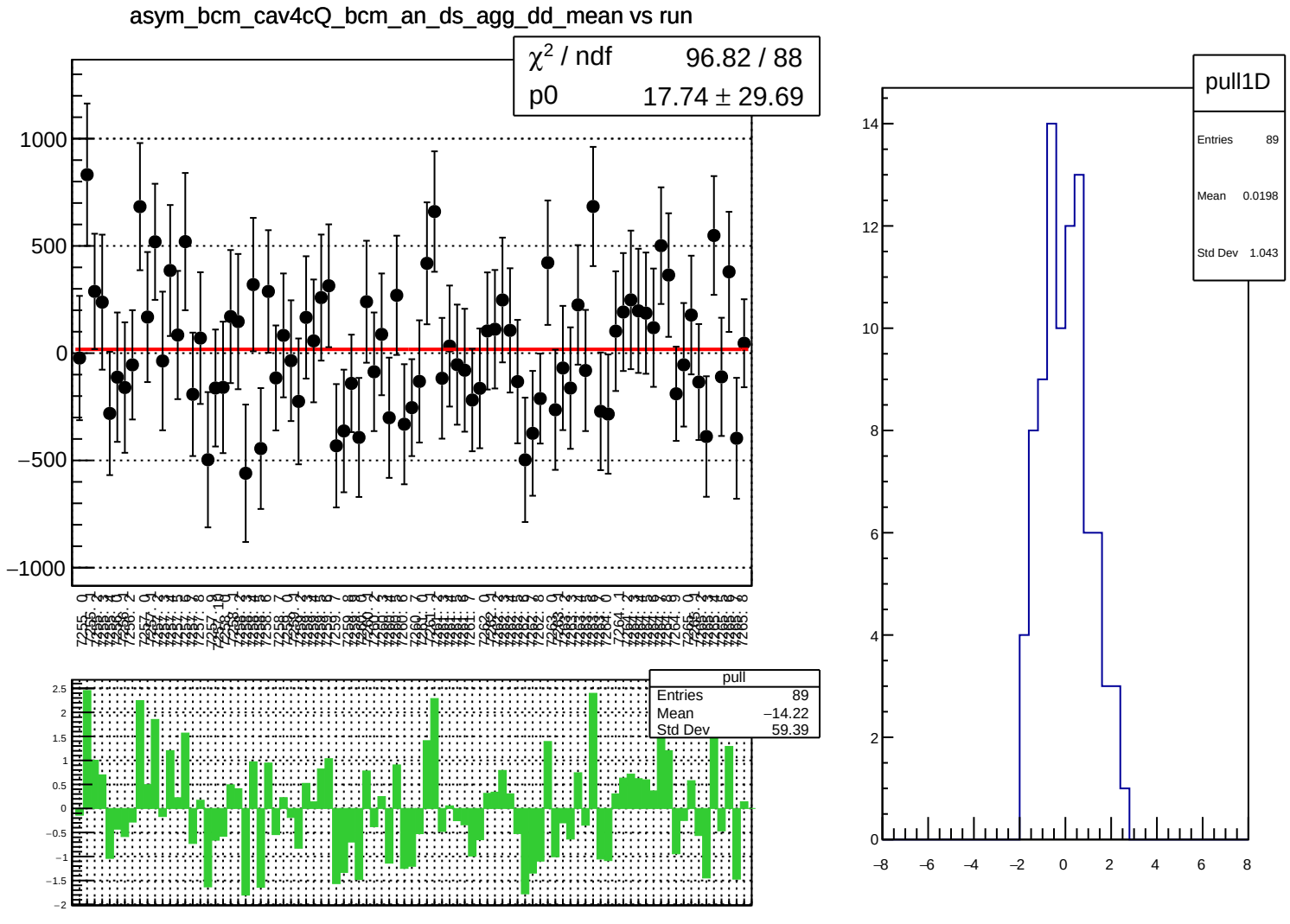

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 87.78 / 88
p0 25 ± 29.77
1000
500
0
−500
−1000
pull
Entries 89
Mean 0.1818
Std Dev 77.15
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01632
Std Dev 0.993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

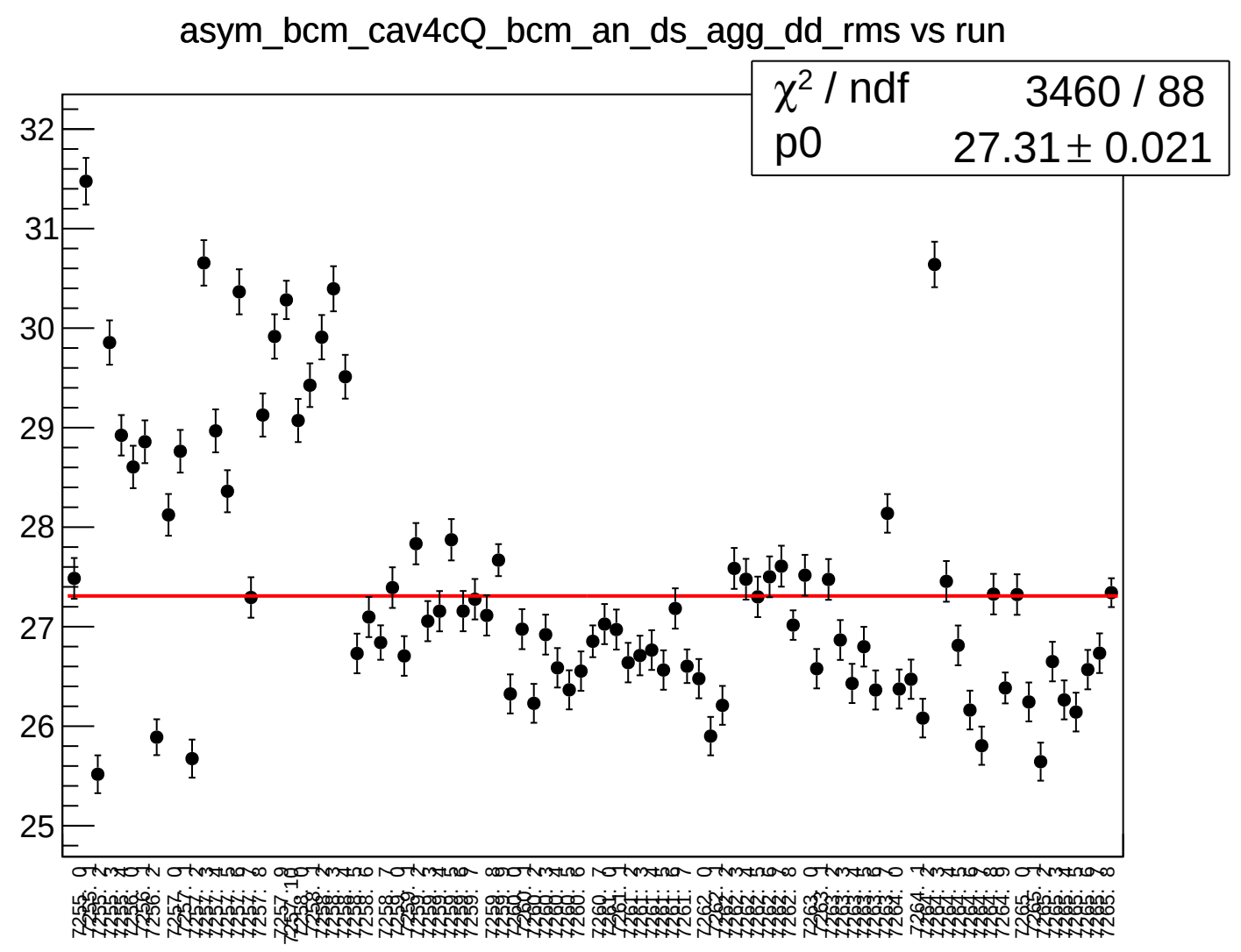

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3265 / 88
p0 27.38 ± 0.02105
32
31
30
29
28
27
26
25

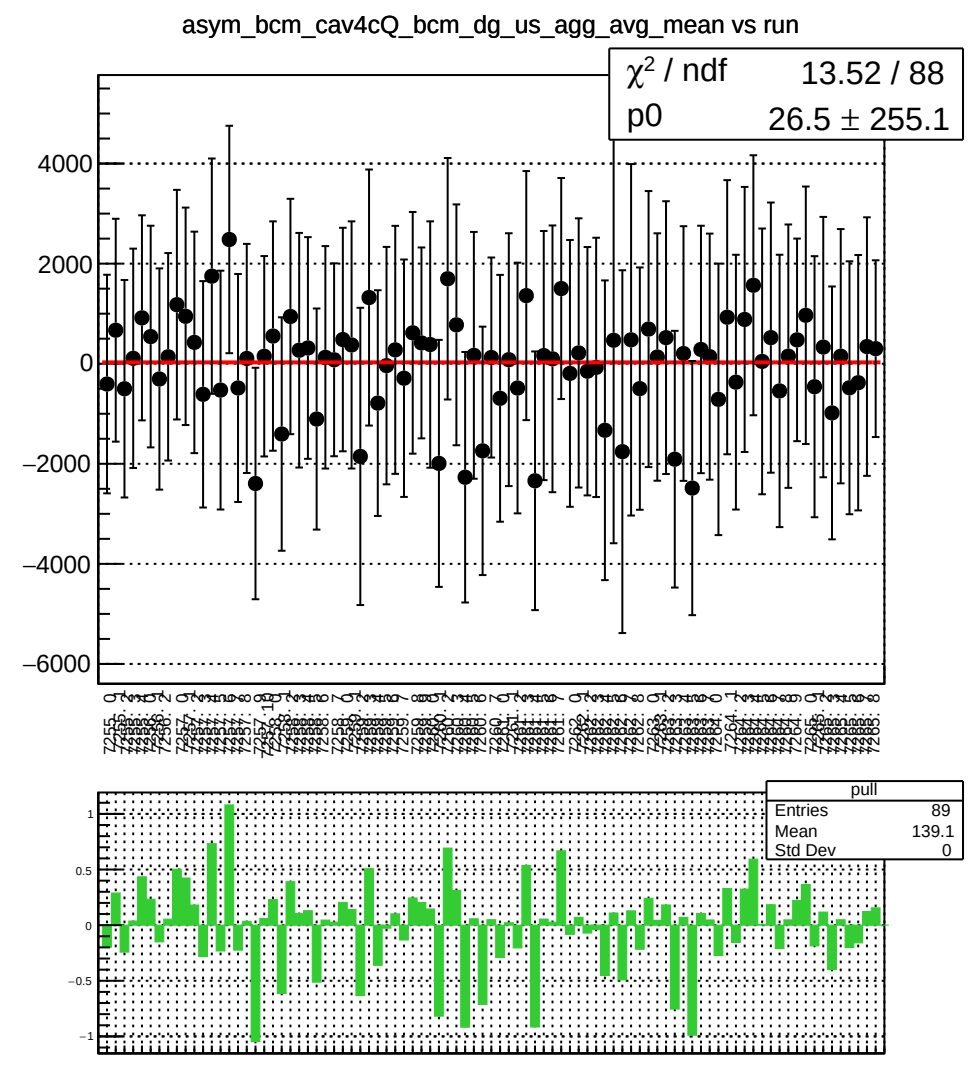

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.45 / 88
p0 15.95 ± 253.5
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 105.3
Std Dev 0
1
0.5
0
−0.5
−1

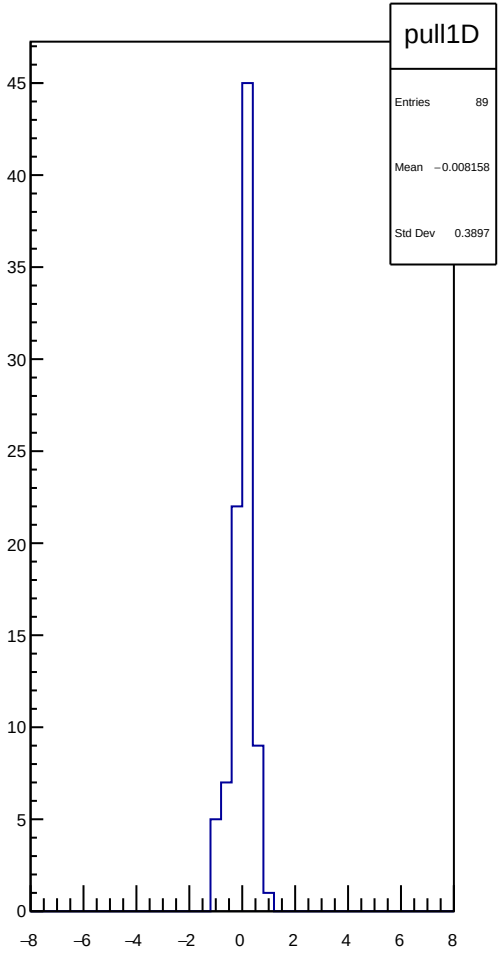

pull1D
Entries 89
Mean −0.005952
Std Dev 0.3587
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

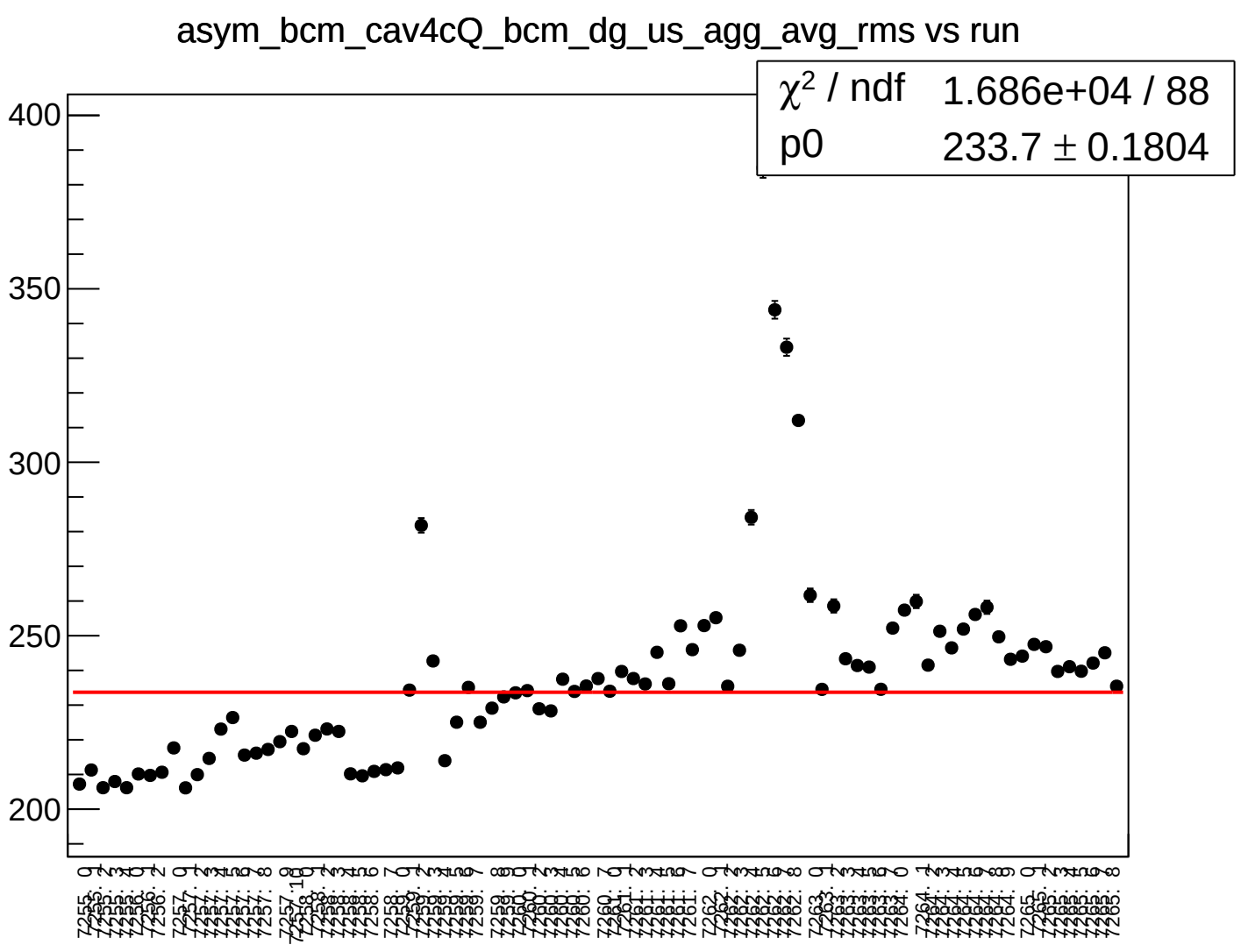

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.725e+04 / 88
p0 232.2 ± 0.1792
400
350
300
250
200

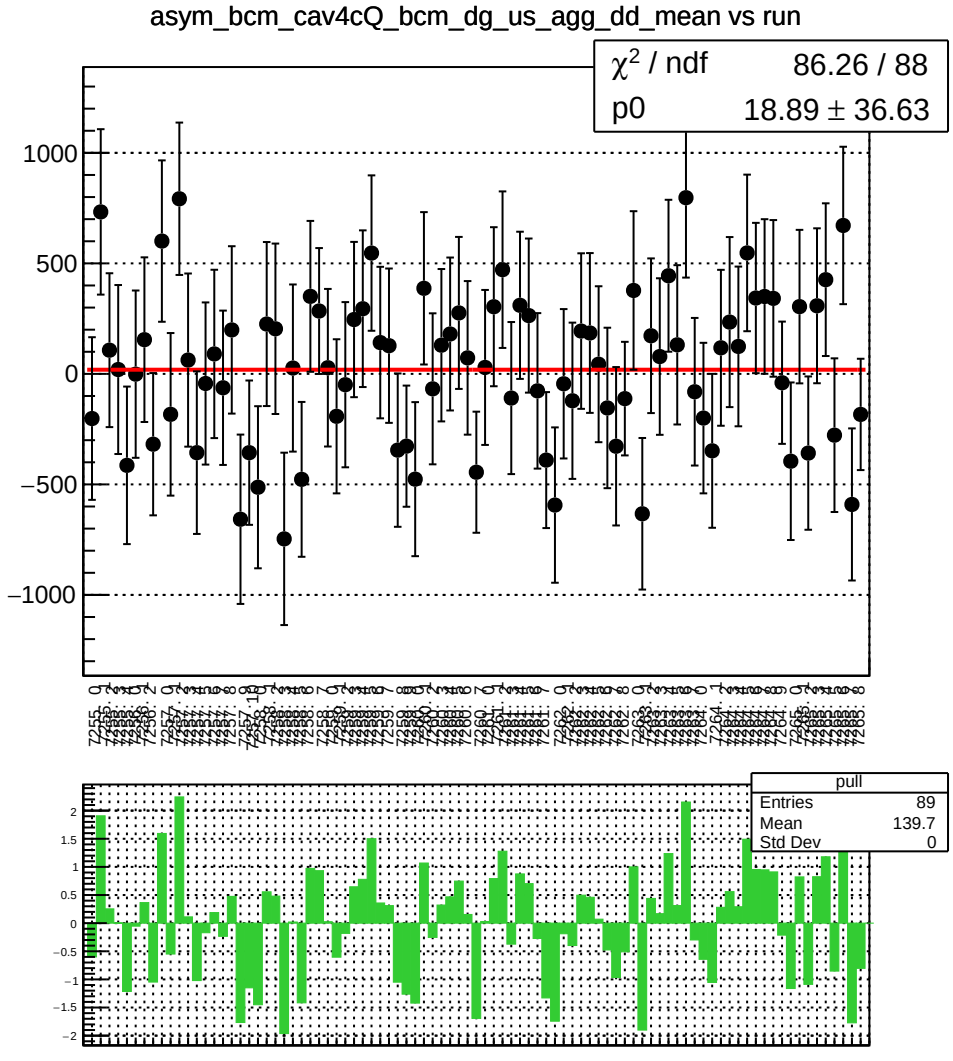

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 96.82 / 88
p0 17.74 ± 29.69
1000
500
0
−500
−1000
pull
Entries 89
Mean −14.22
Std Dev 59.39
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.0198
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

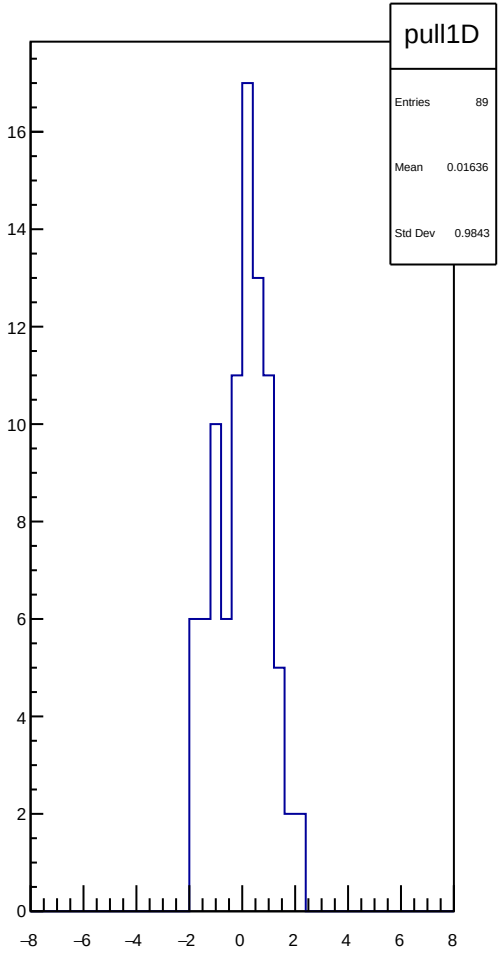

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3460 / 88
p0 27.31 ± 0.021
32
31
30
29
28
27
26
25

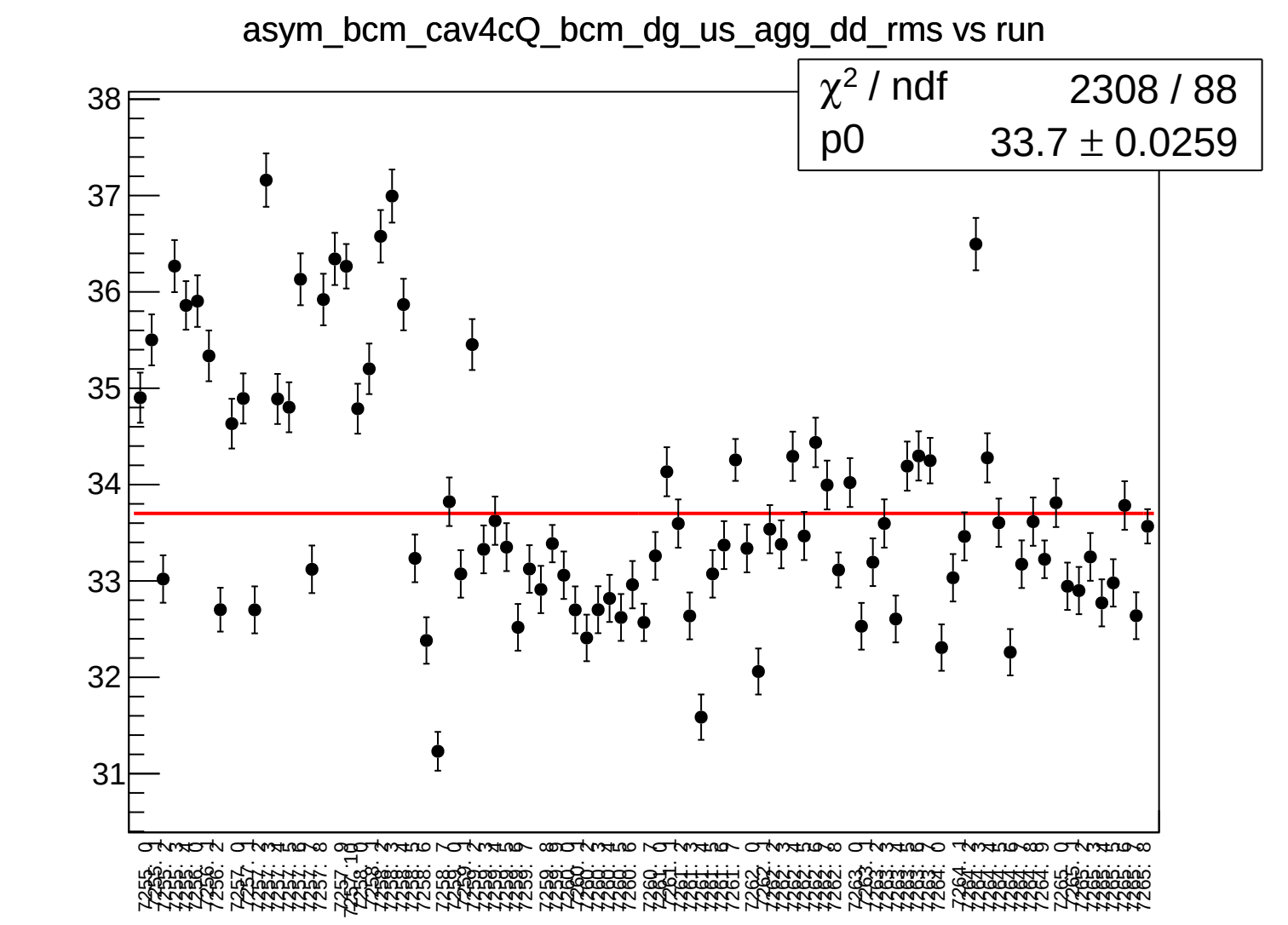

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 13.52 / 88
p0 26.5 ± 255.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 139.1
Std Dev 0
1
0.5
0
−0.5
−1

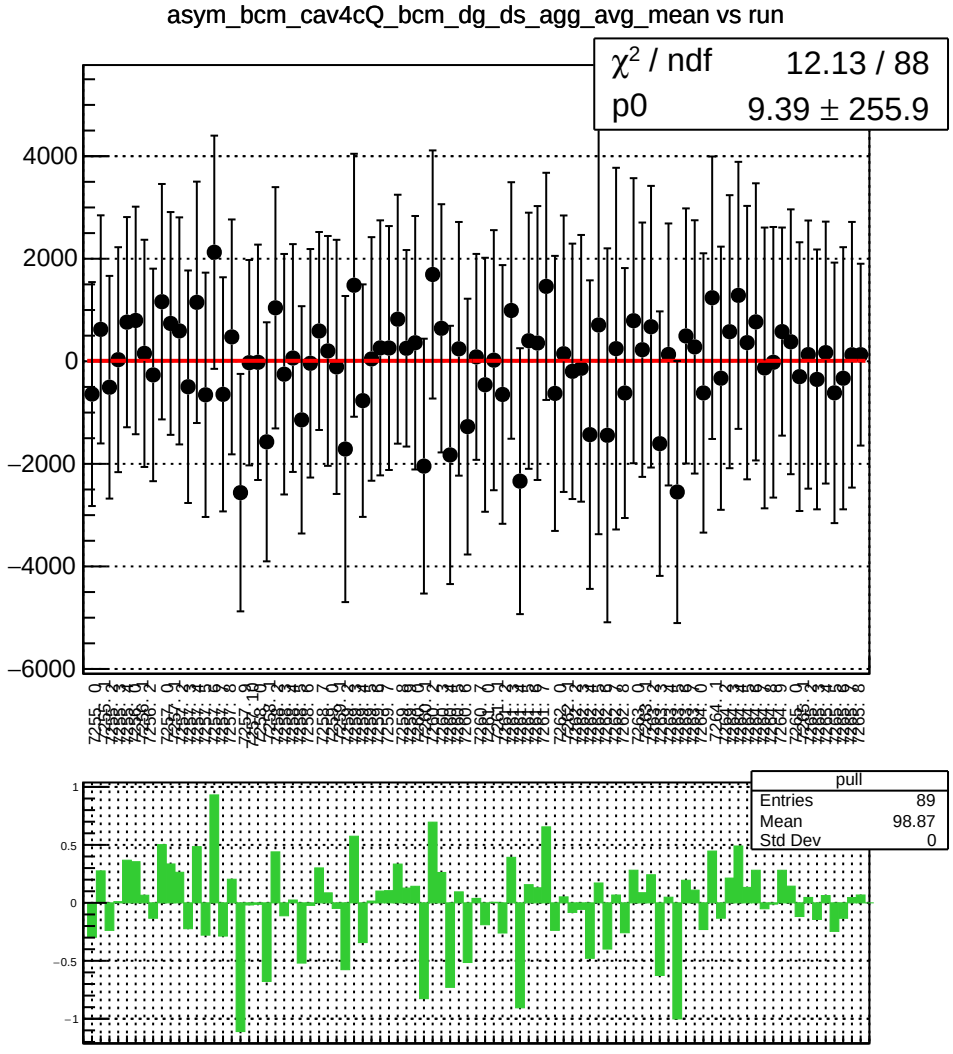

pull1D
Entries 89
Mean −0.008158
Std Dev 0.3897
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

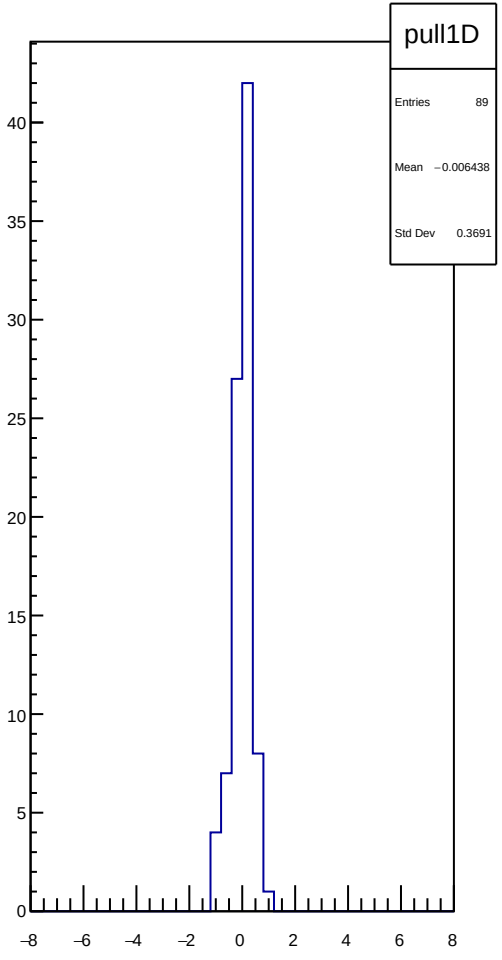

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.686e+04 / 88
p0 233.7 ± 0.1804
400
350
300
250
200

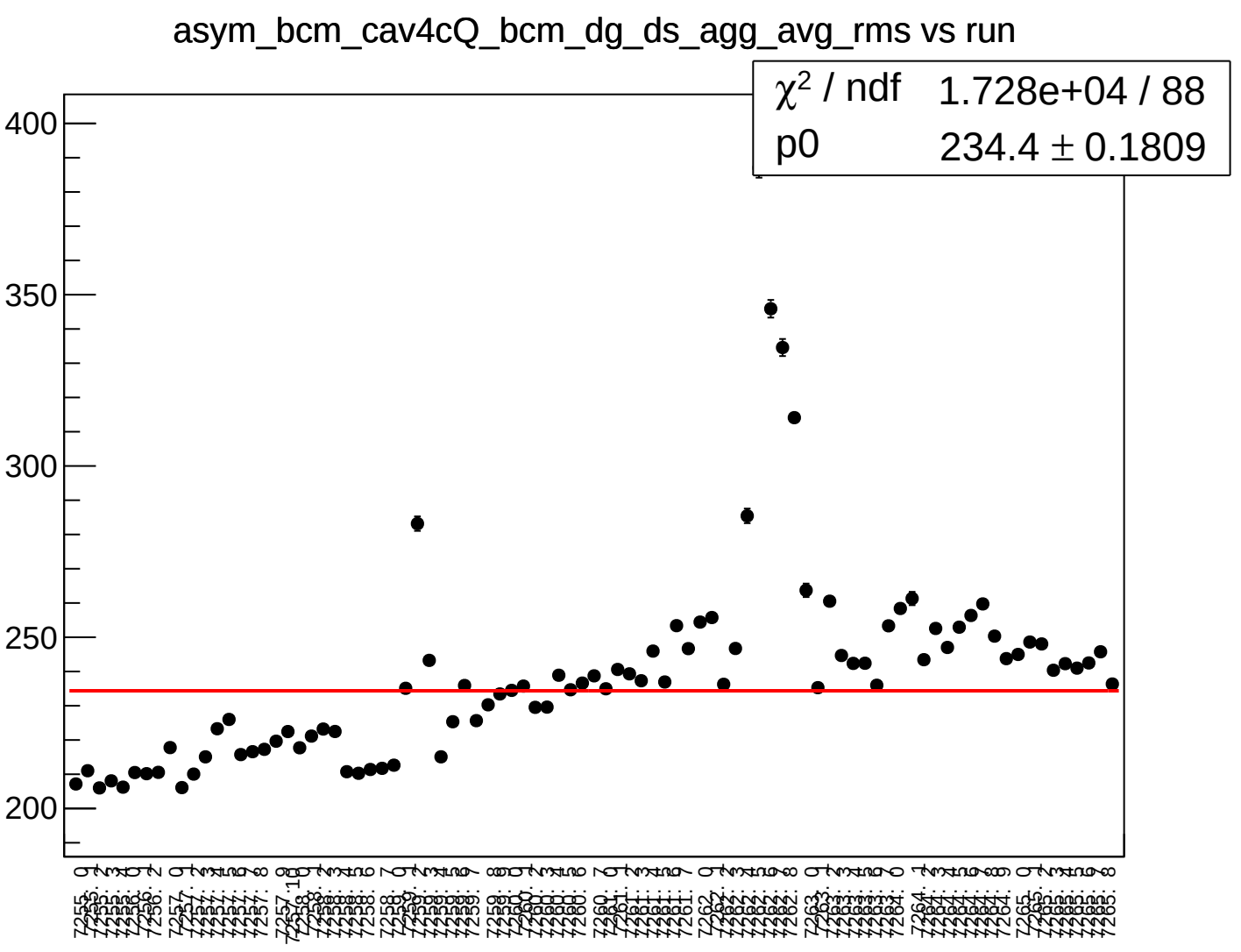

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 86.26 / 88
p0 18.89 ± 36.63
1000
500
0
−500
−1000
pull
Entries 89
Mean 139.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

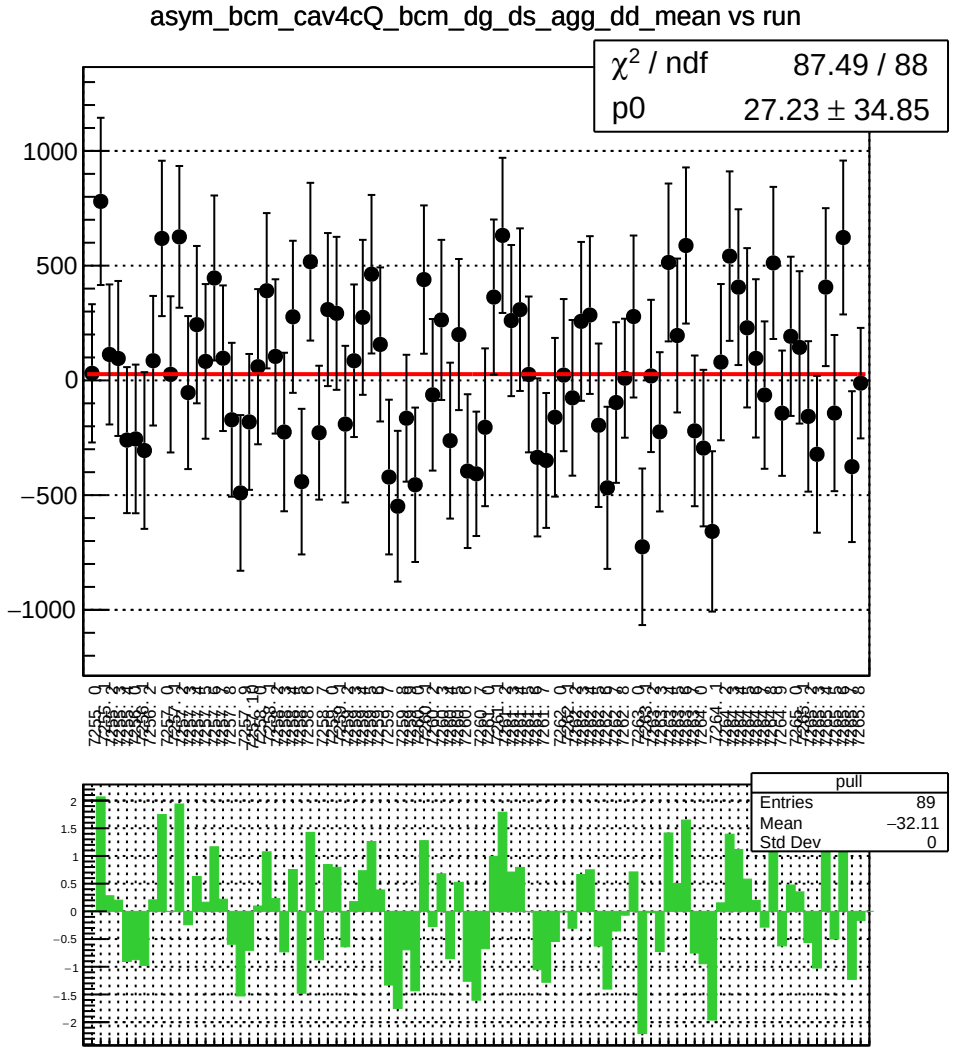

pull1D
Entries 89
Mean 0.01636
Std Dev 0.9843
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

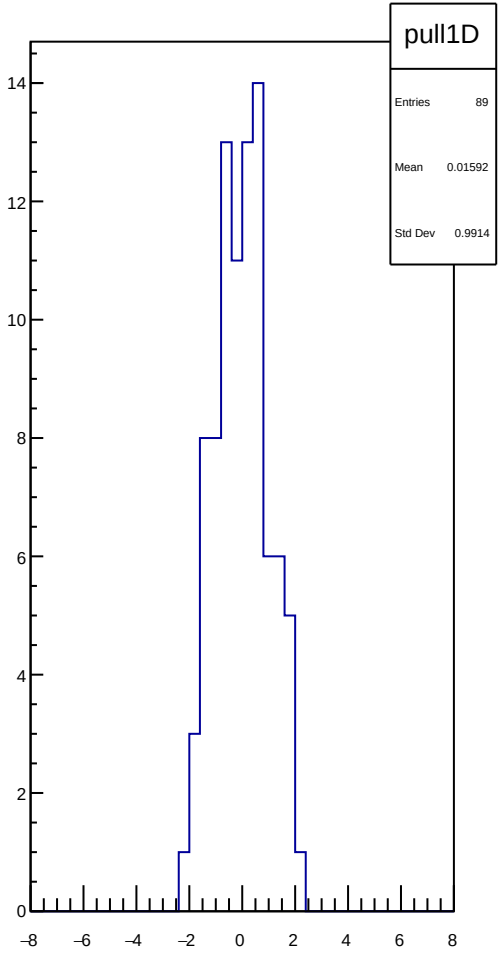

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2308 / 88
p0 33.7 ± 0.0259
38
37
36
35
34
33
32
31

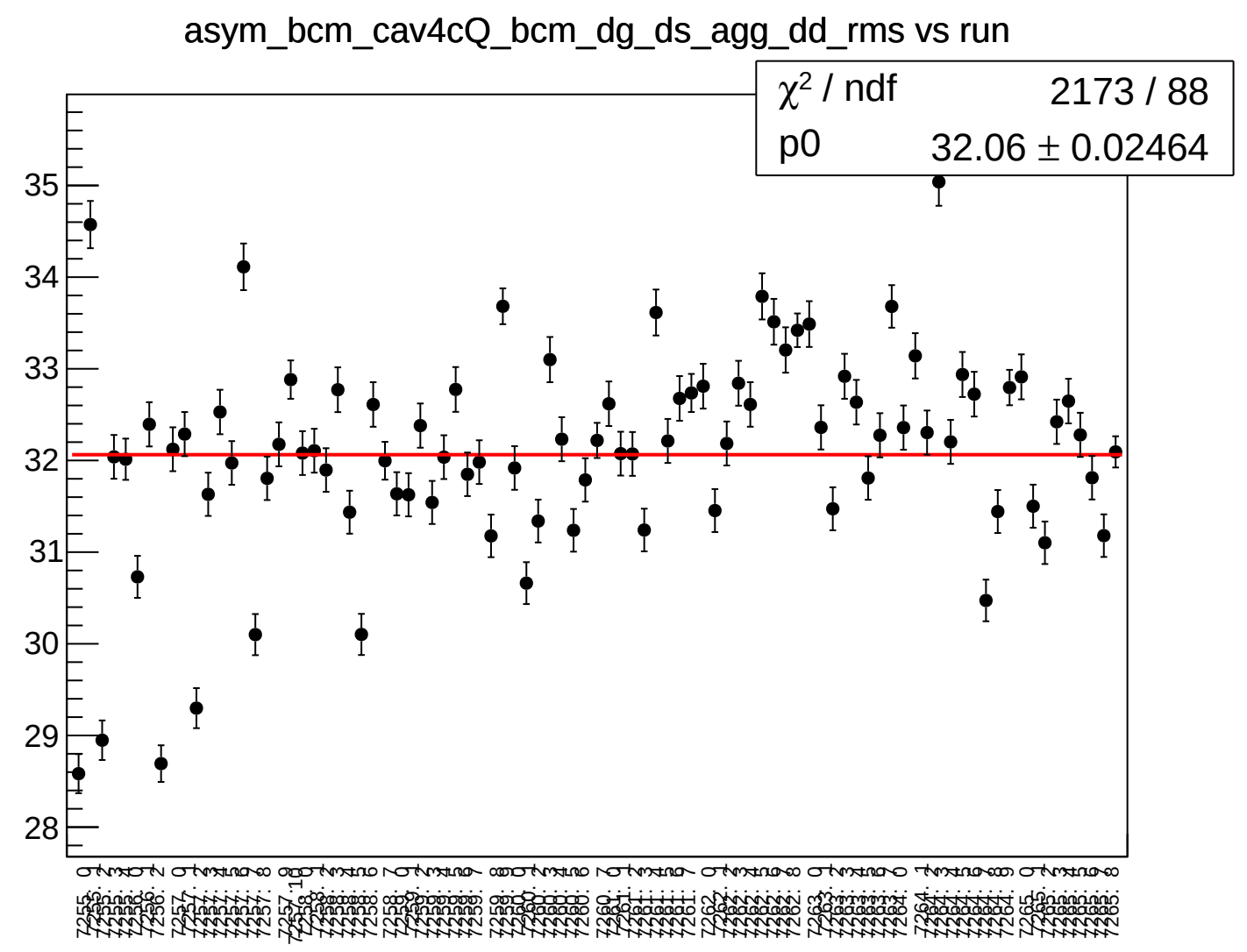

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 12.13 / 88
p0 9.39 ± 255.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 98.87
Std Dev 0
1
0.5
0
−0.5
−1

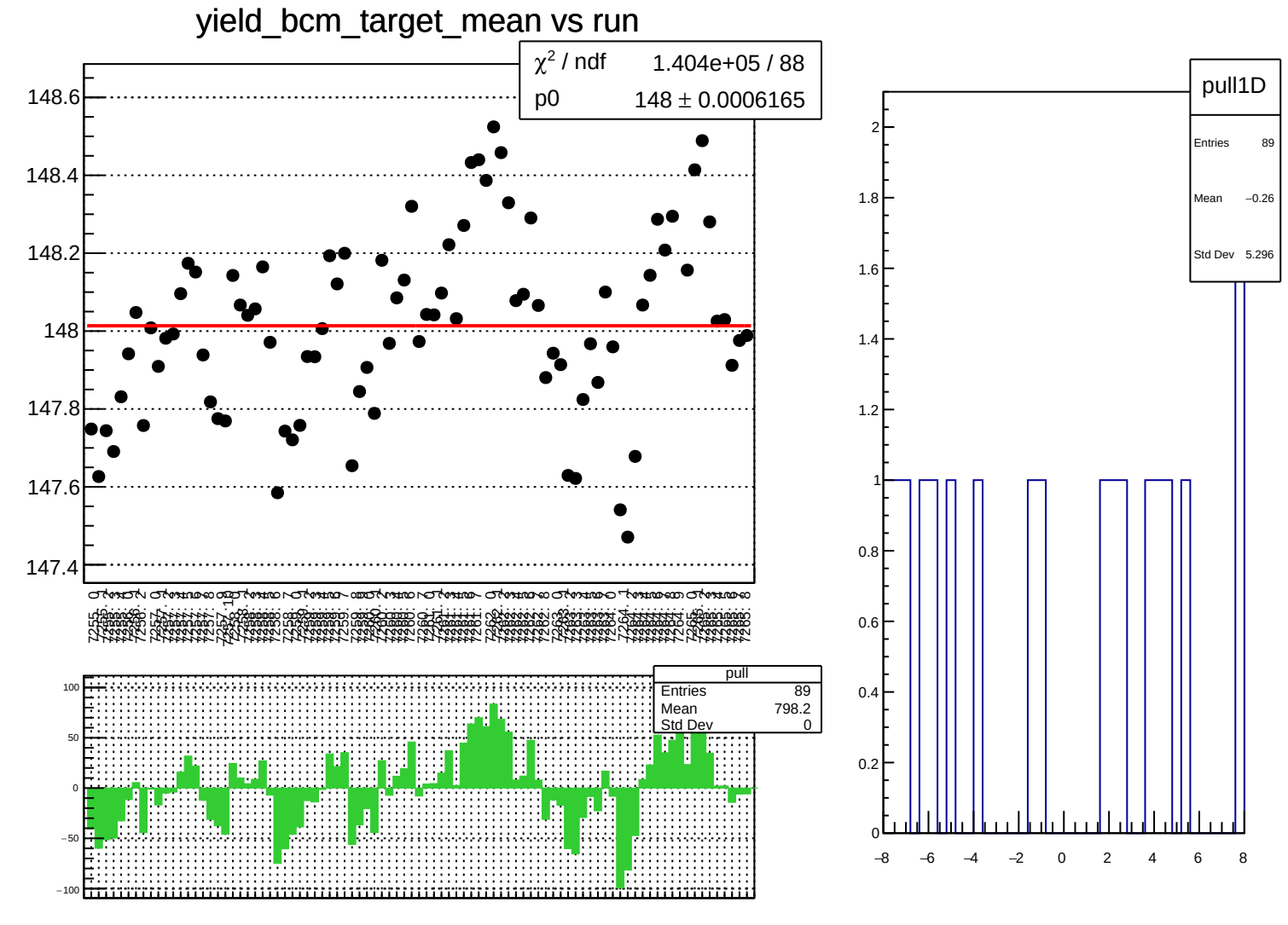

pull1D
Entries 89
Mean −0.006438
Std Dev 0.3691
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

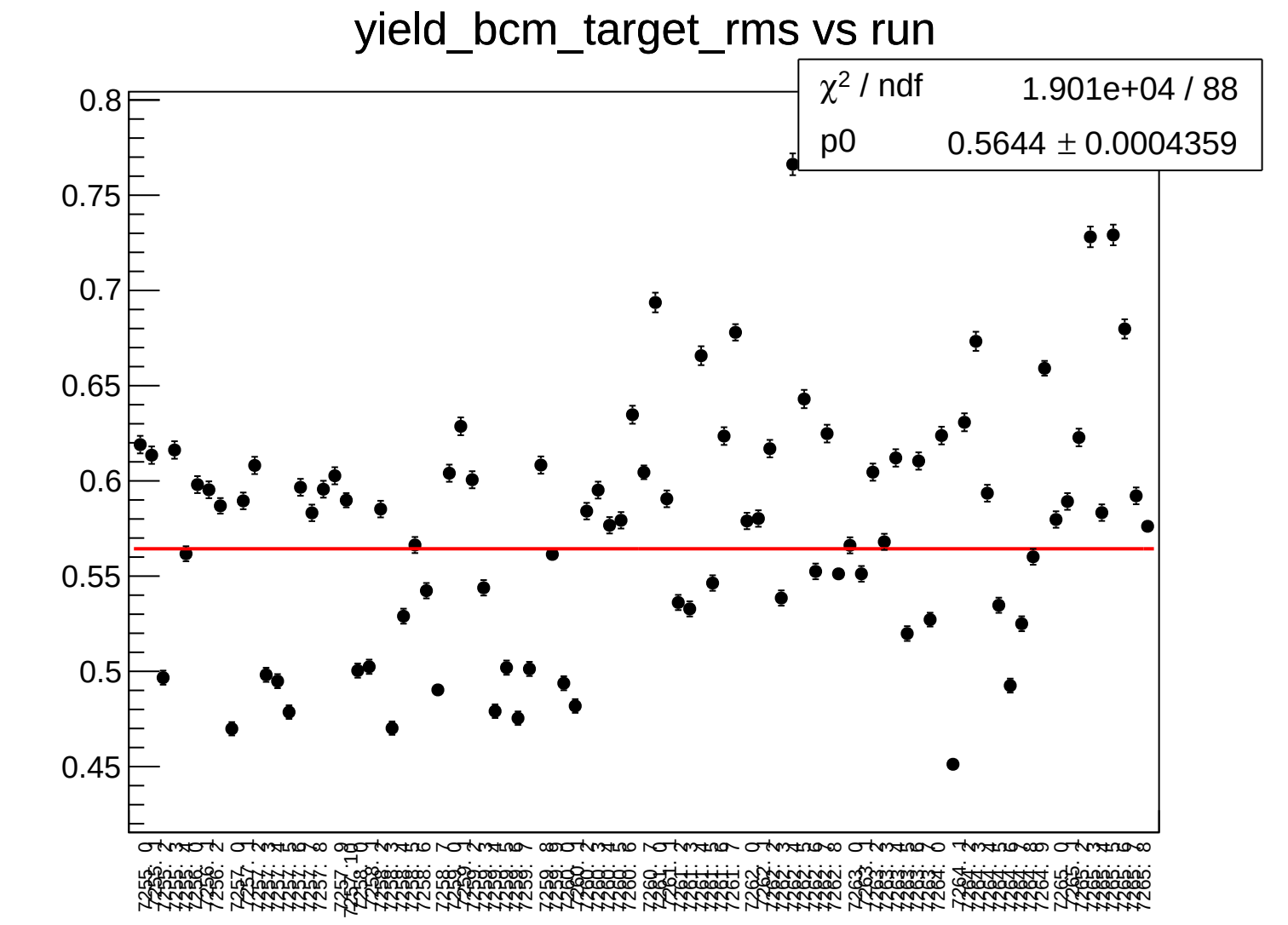

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.728e+04 / 88
p0 234.4 ± 0.1809
400
350
300
250
200

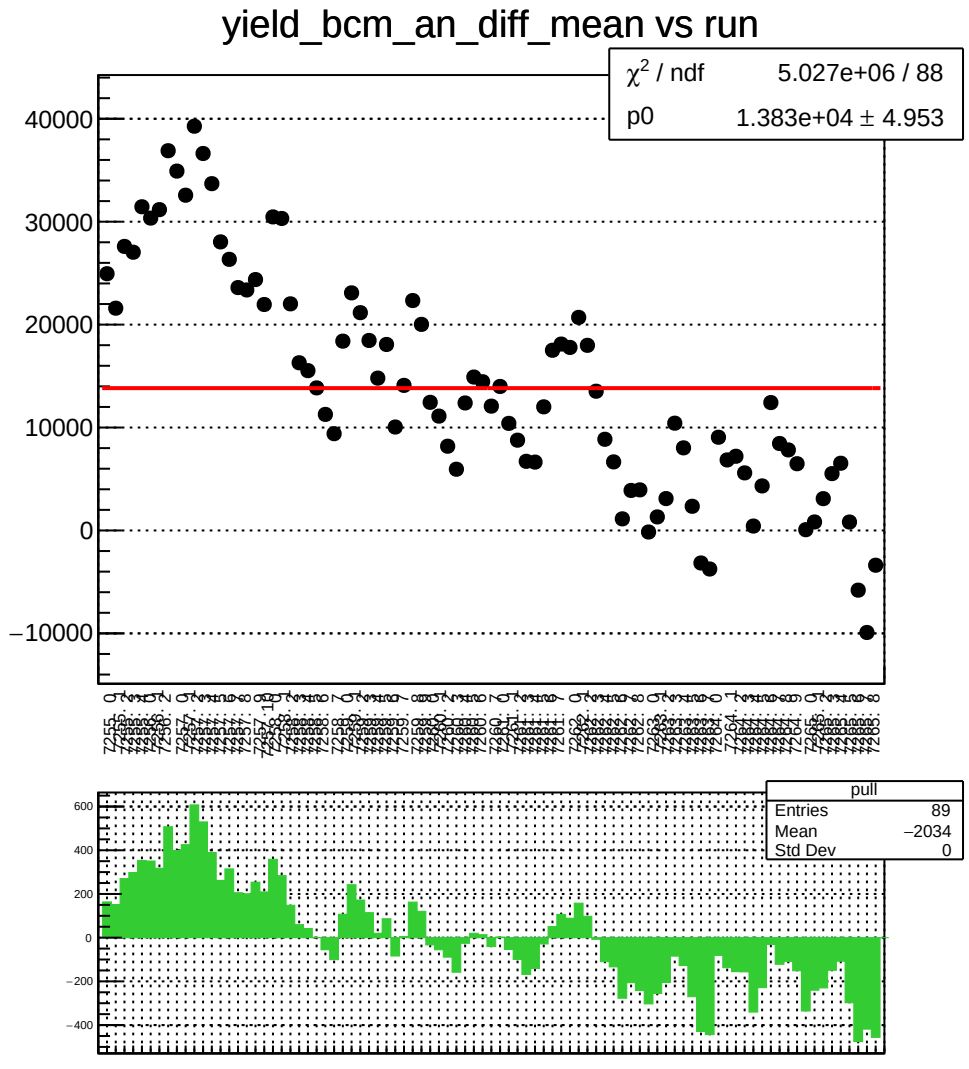

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 87.49 / 88
p0 27.23 ± 34.85
1000
500
0
−500
−1000
pull
Entries 89
Mean −32.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

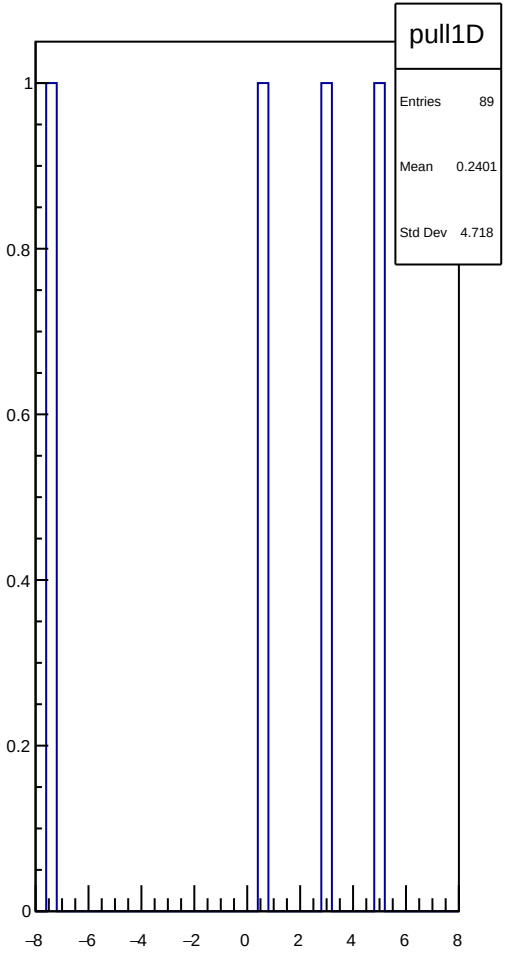

pull1D
Entries 89
Mean 0.01592
Std Dev 0.9914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

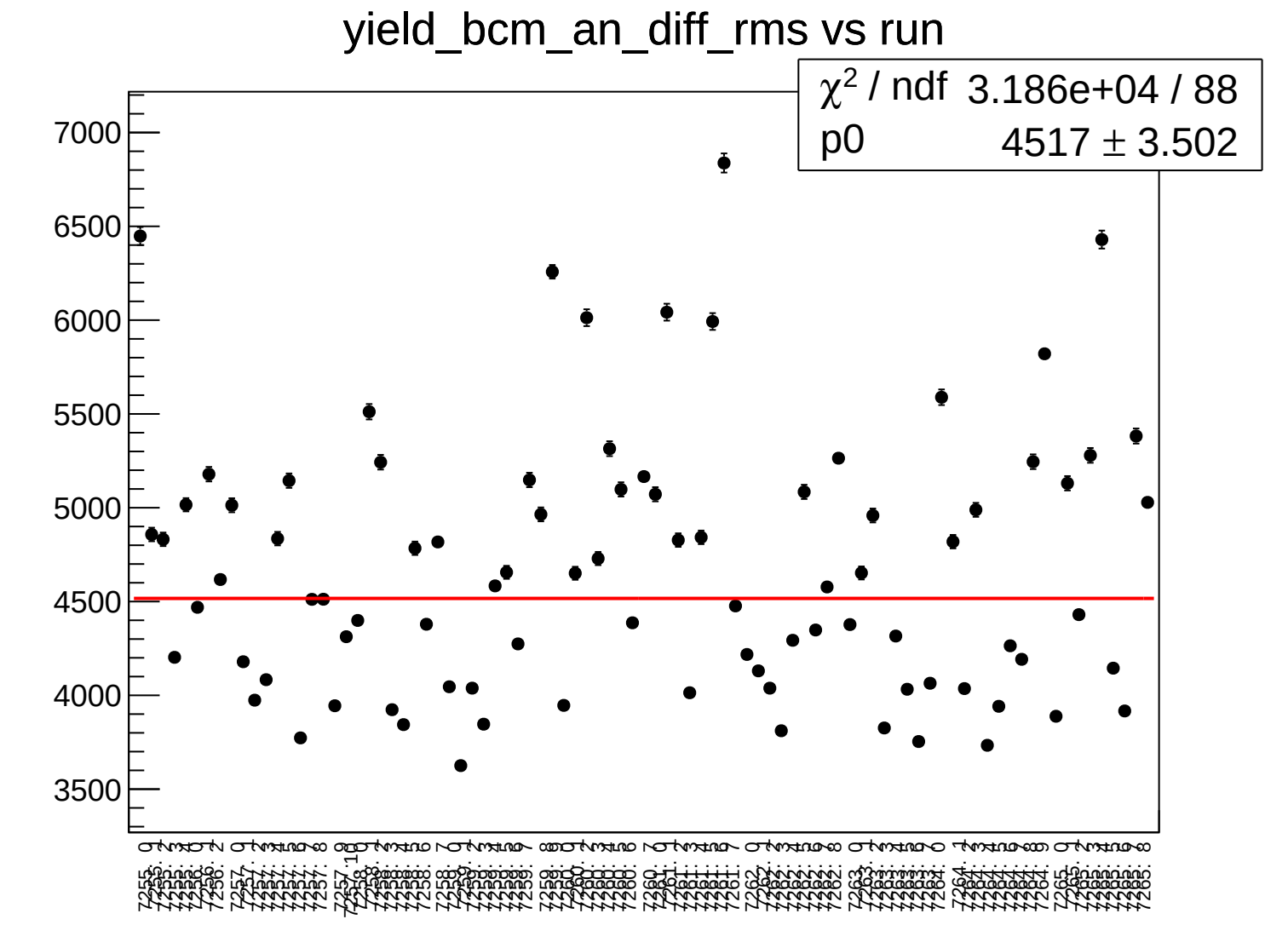

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2173 / 88
p0 32.06 ± 0.02464
35
34
33
32
31
30
29
28

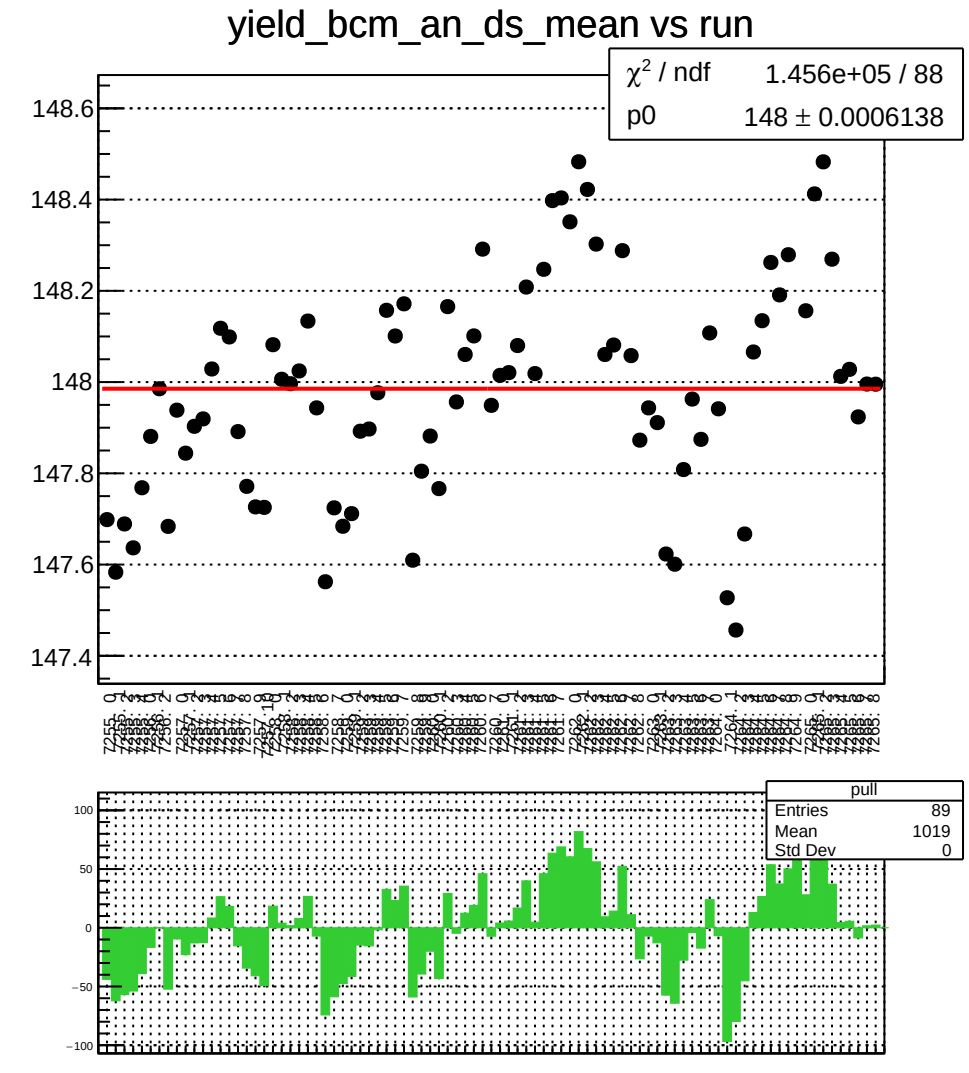

yield_bcm_target_mean vs run
χ² / ndf 1.404e+05 / 88
p0 148 ± 0.0006165
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 89
Mean 798.2
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 89
Mean −0.26
Std Dev 5.296
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

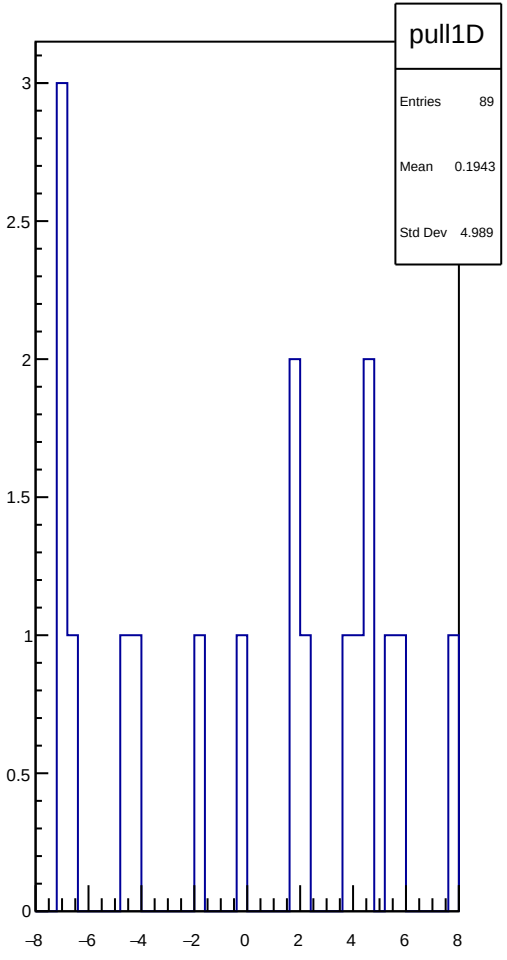

yield_bcm_target_rms vs run
χ² / ndf 1.901e+04 / 88
p0 0.5644 ± 0.0004359
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

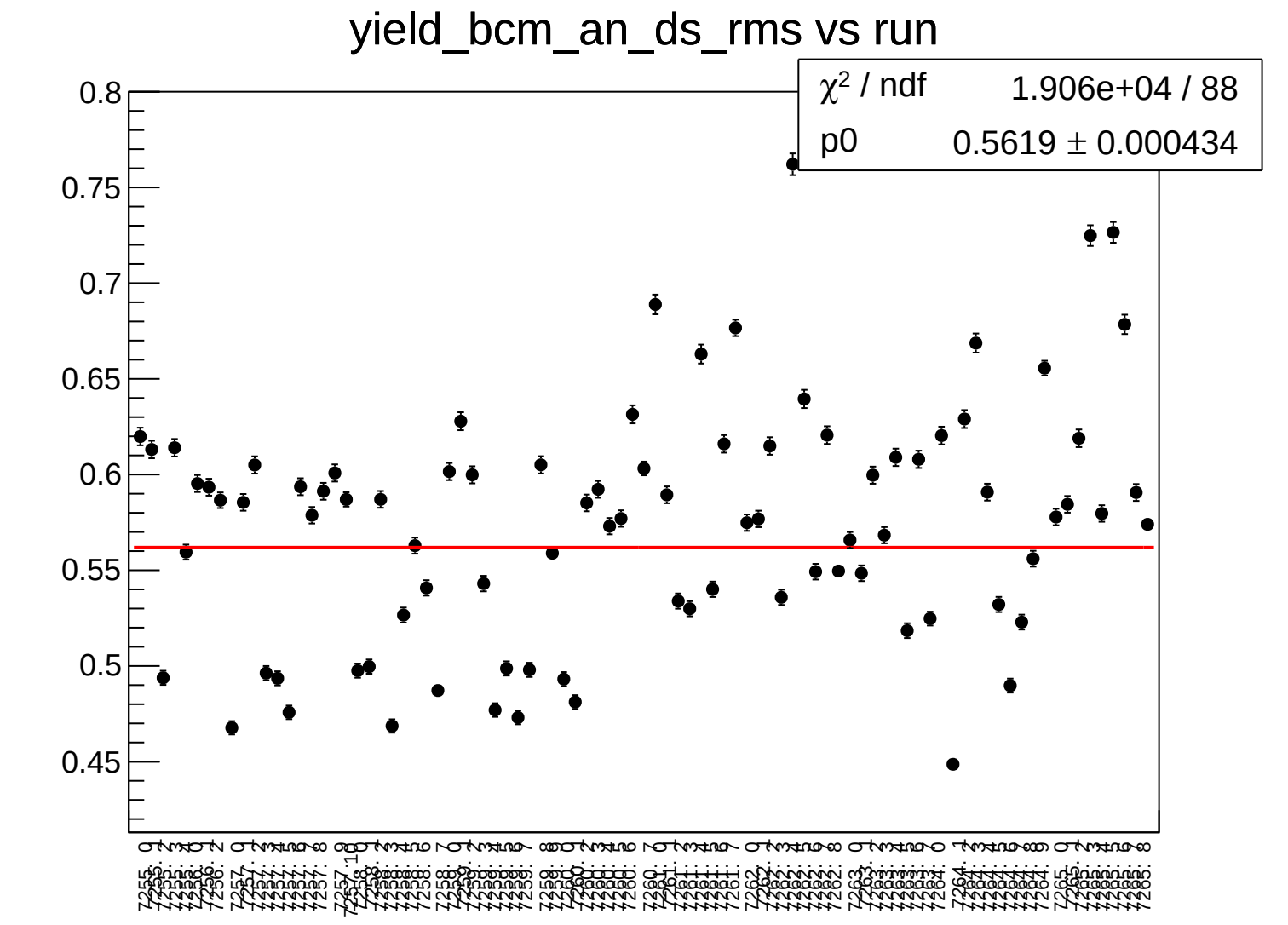

yield_bcm_an_diff_mean vs run
χ² / ndf 5.027e+06 / 88
p0 1.383e+04 ± 4.953
40000
30000
20000
10000
0
−10000
pull
Entries 89
Mean −2034
Std Dev 0
600
400
200
0
−200
−400

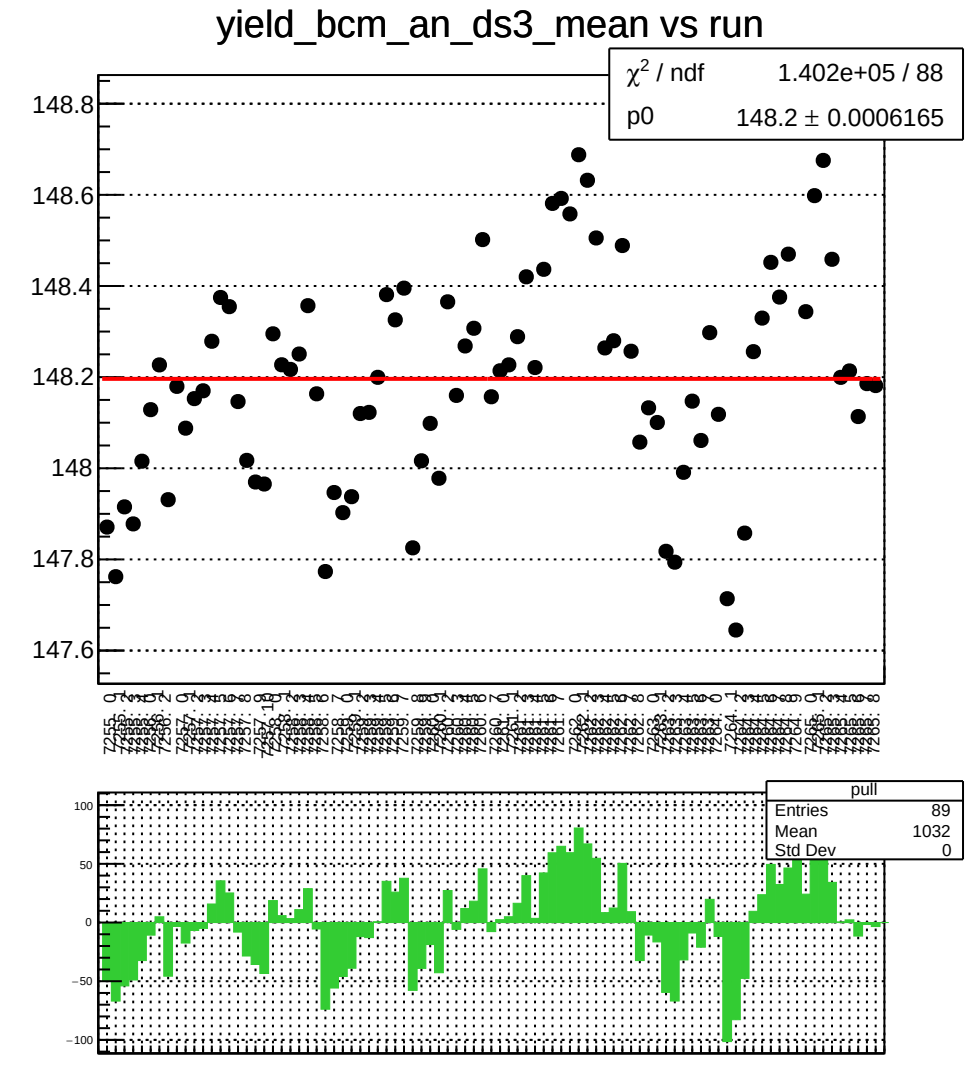

pull1D
Entries 89
Mean 0.2401
Std Dev 4.718
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

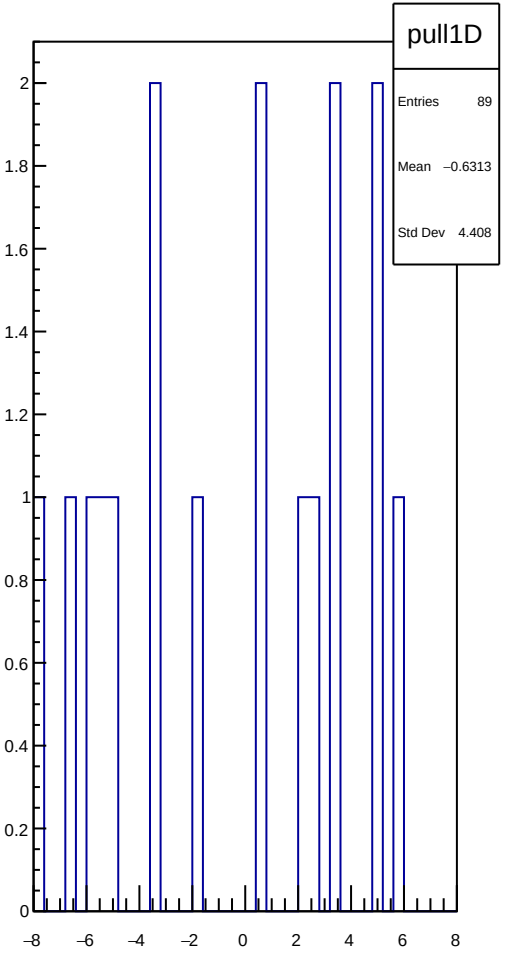

yield_bcm_an_diff_rms vs run
χ² / ndf 3.186e+04 / 88
p0 4517 ± 3.502
7000
6500
6000
5500
5000
4500
4000
3500

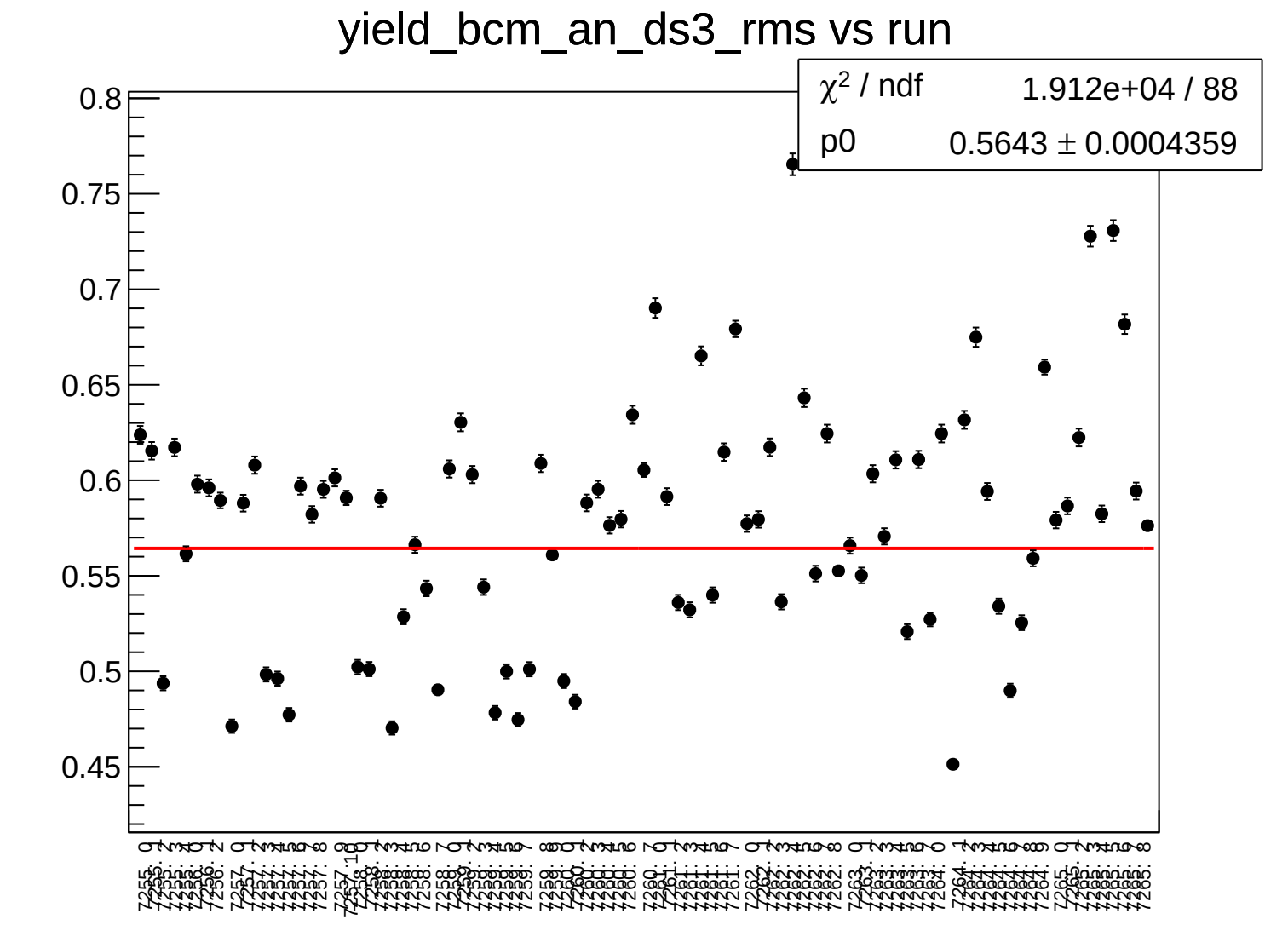

yield_bcm_an_ds_mean vs run
χ² / ndf 1.456e+05 / 88
p0 148 ± 0.0006138
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 89
Mean 1019
Std Dev 0
100
50
0
−50
−100

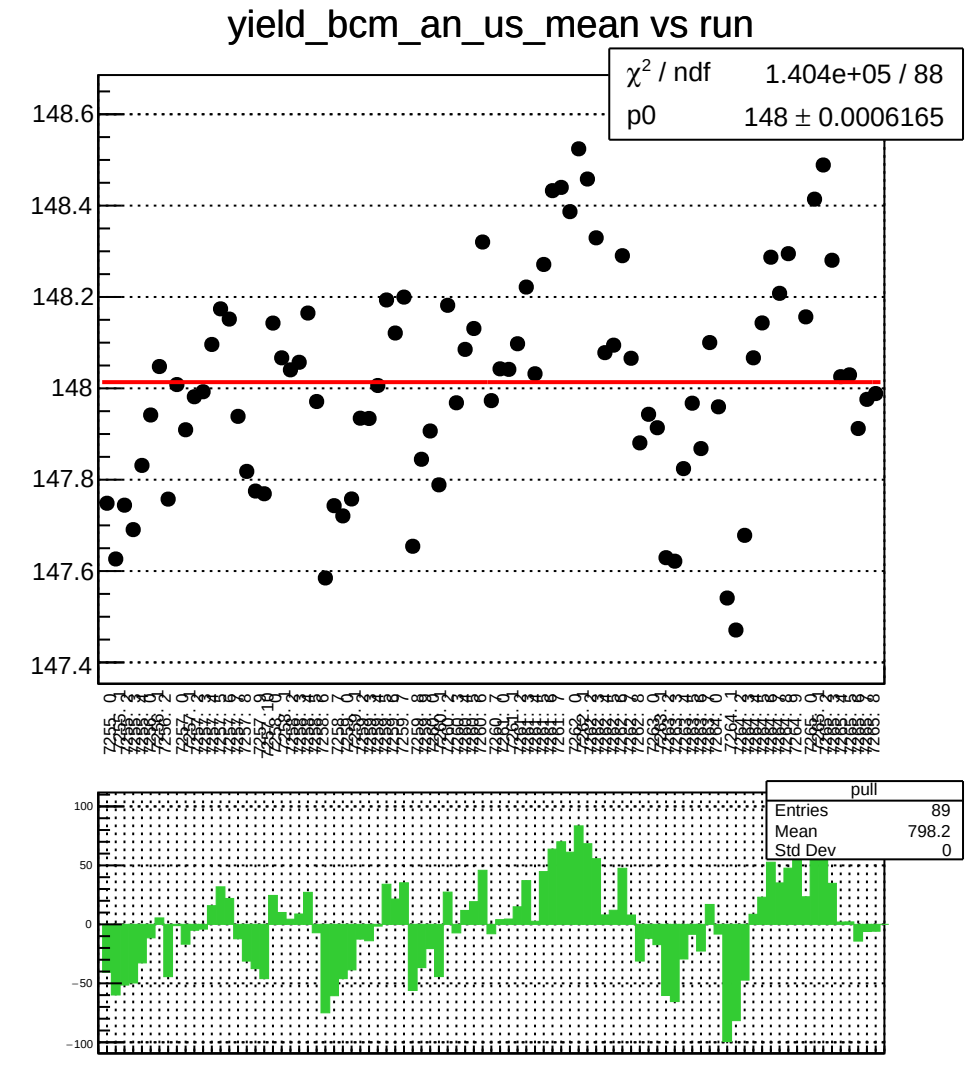

pull1D
Entries 89
Mean 0.1943
Std Dev 4.989
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

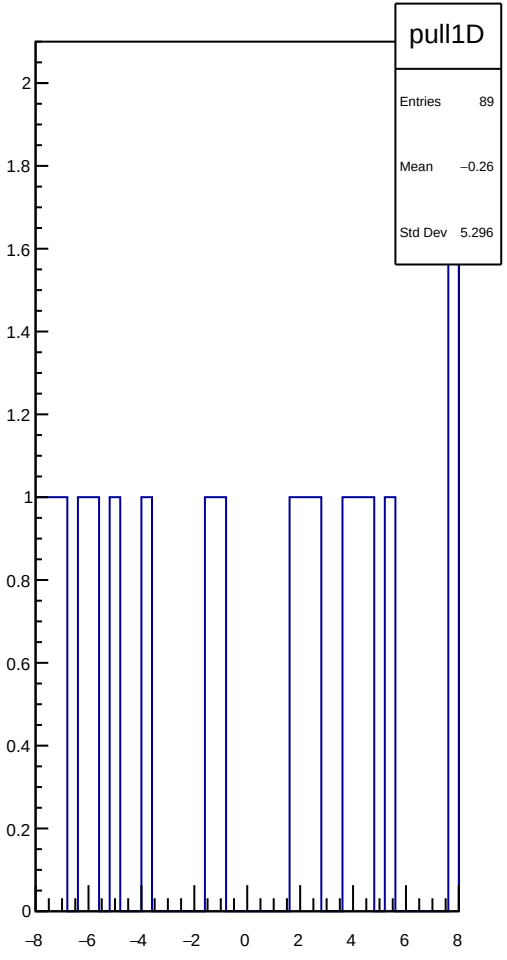

yield_bcm_an_ds_rms vs run
χ² / ndf 1.906e+04 / 88
p0 0.5619 ± 0.000434
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

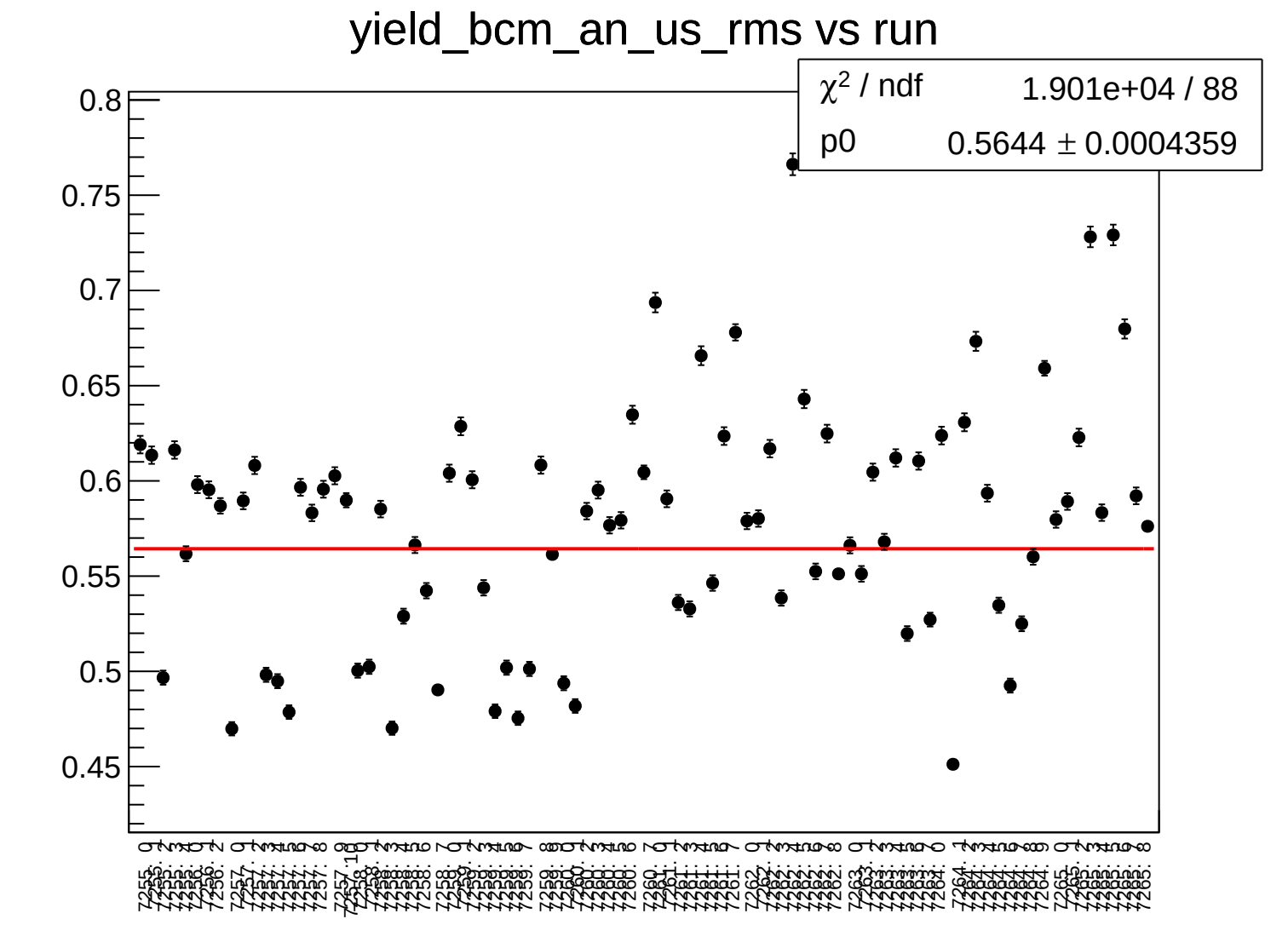

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.402e+05 / 88
p0 148.2 ± 0.0006165
148.8
148.6
148.4
148.2
148
147.8
147.6
pull
Entries 89
Mean 1032
Std Dev 0
100
50
0
−50
−100

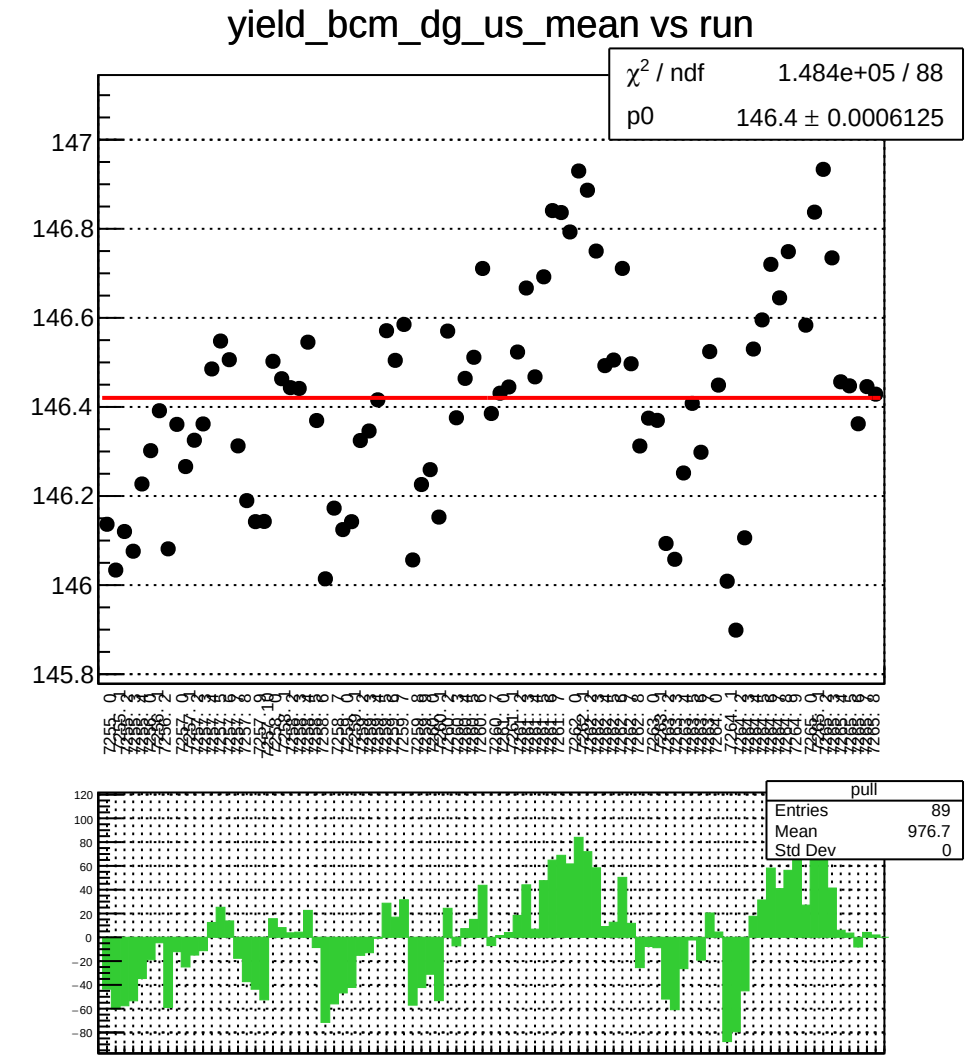

pull1D
Entries 89
Mean −0.6313
Std Dev 4.408
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

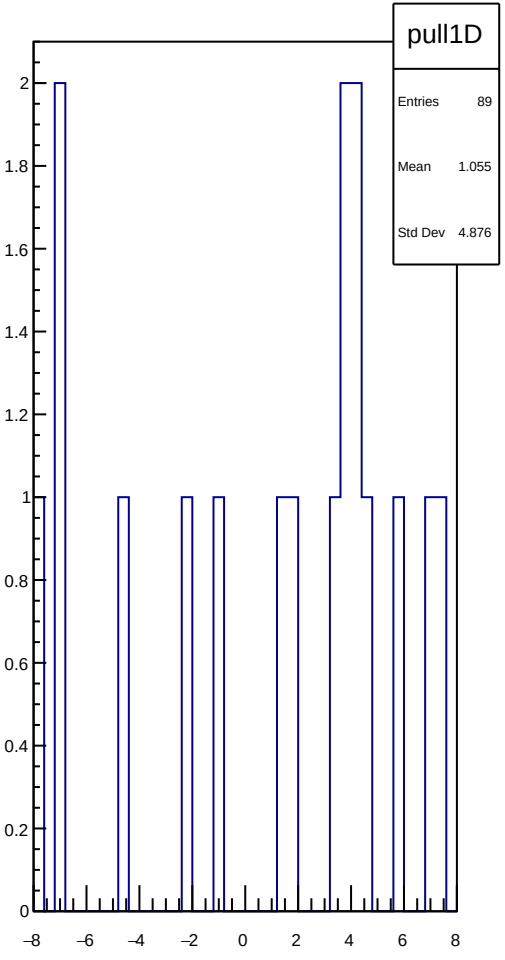

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.912e+04 / 88
p0 0.5643 ± 0.0004359
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

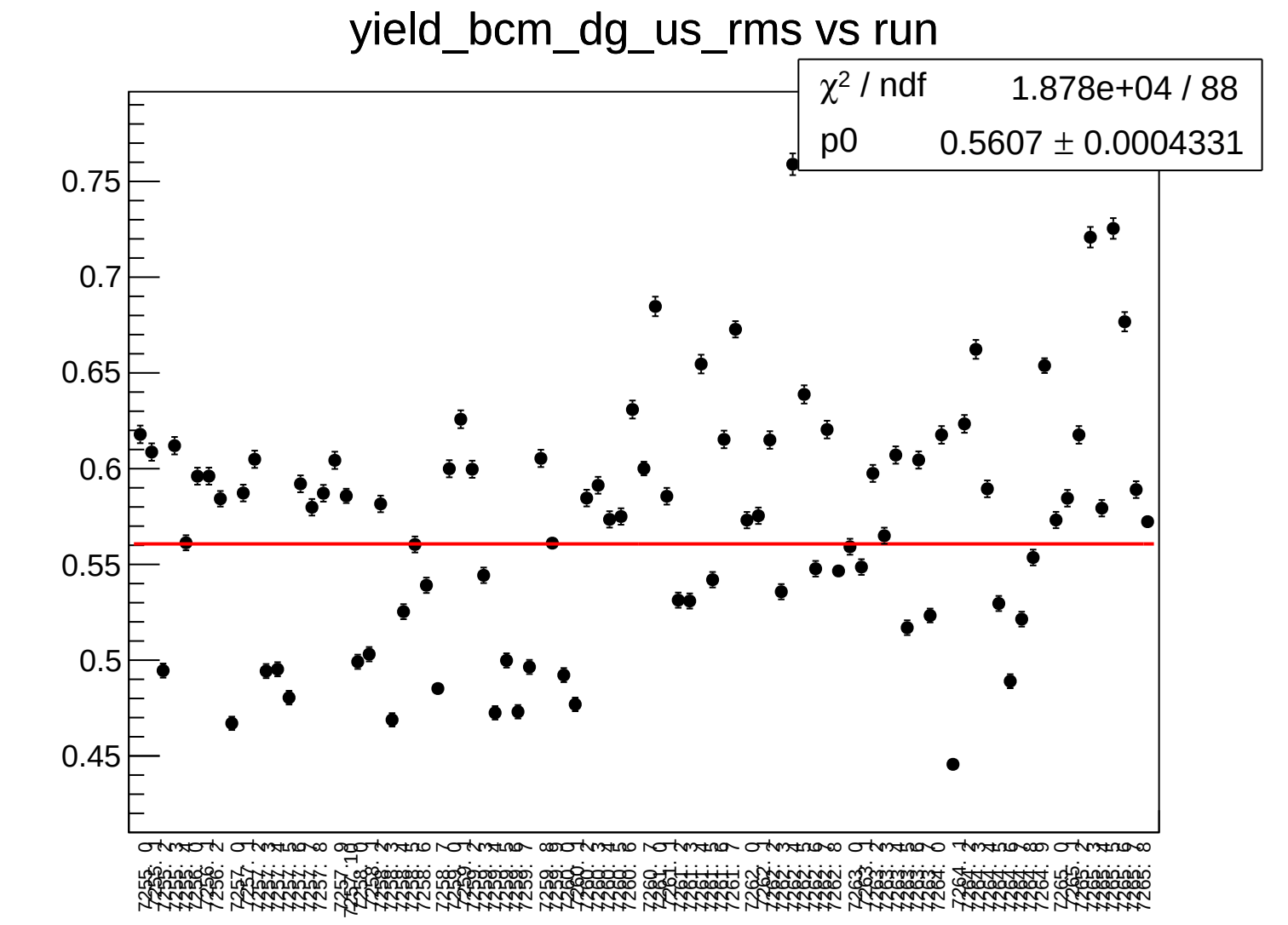

yield_bcm_an_us_mean vs run
χ² / ndf 1.404e+05 / 88
p0 148 ± 0.0006165
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 89
Mean 798.2
Std Dev 0
100
50
0
−50
−100

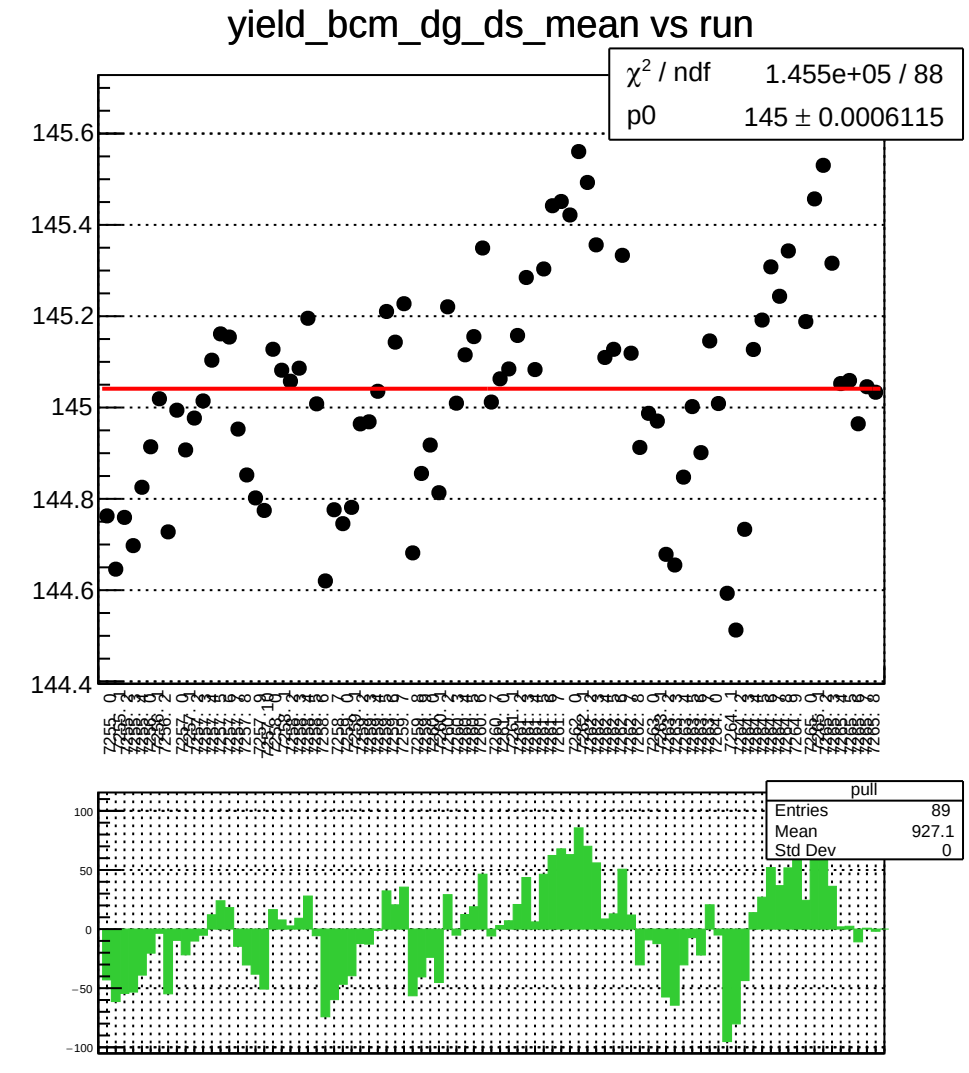

pull1D
Entries 89
Mean −0.26
Std Dev 5.296
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

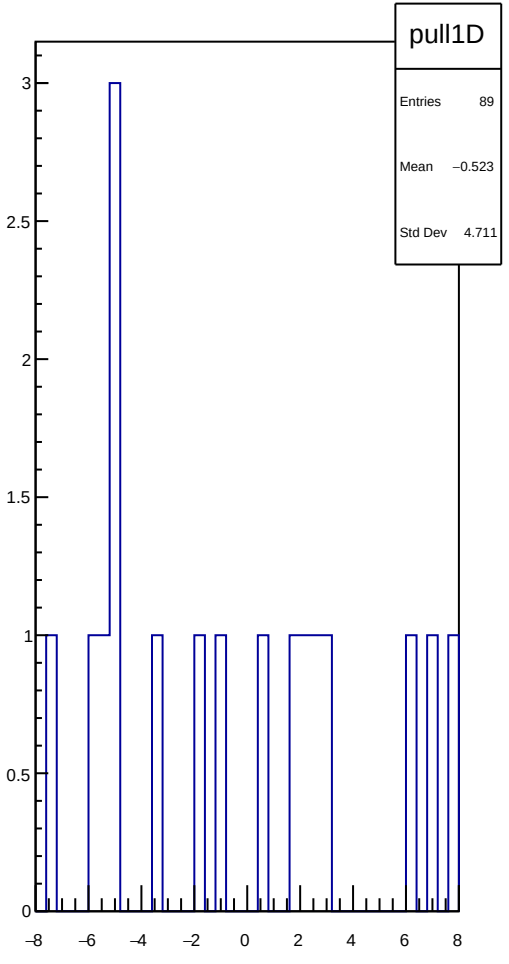

yield_bcm_an_us_rms vs run
χ² / ndf 1.901e+04 / 88
p0 0.5644 ± 0.0004359
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

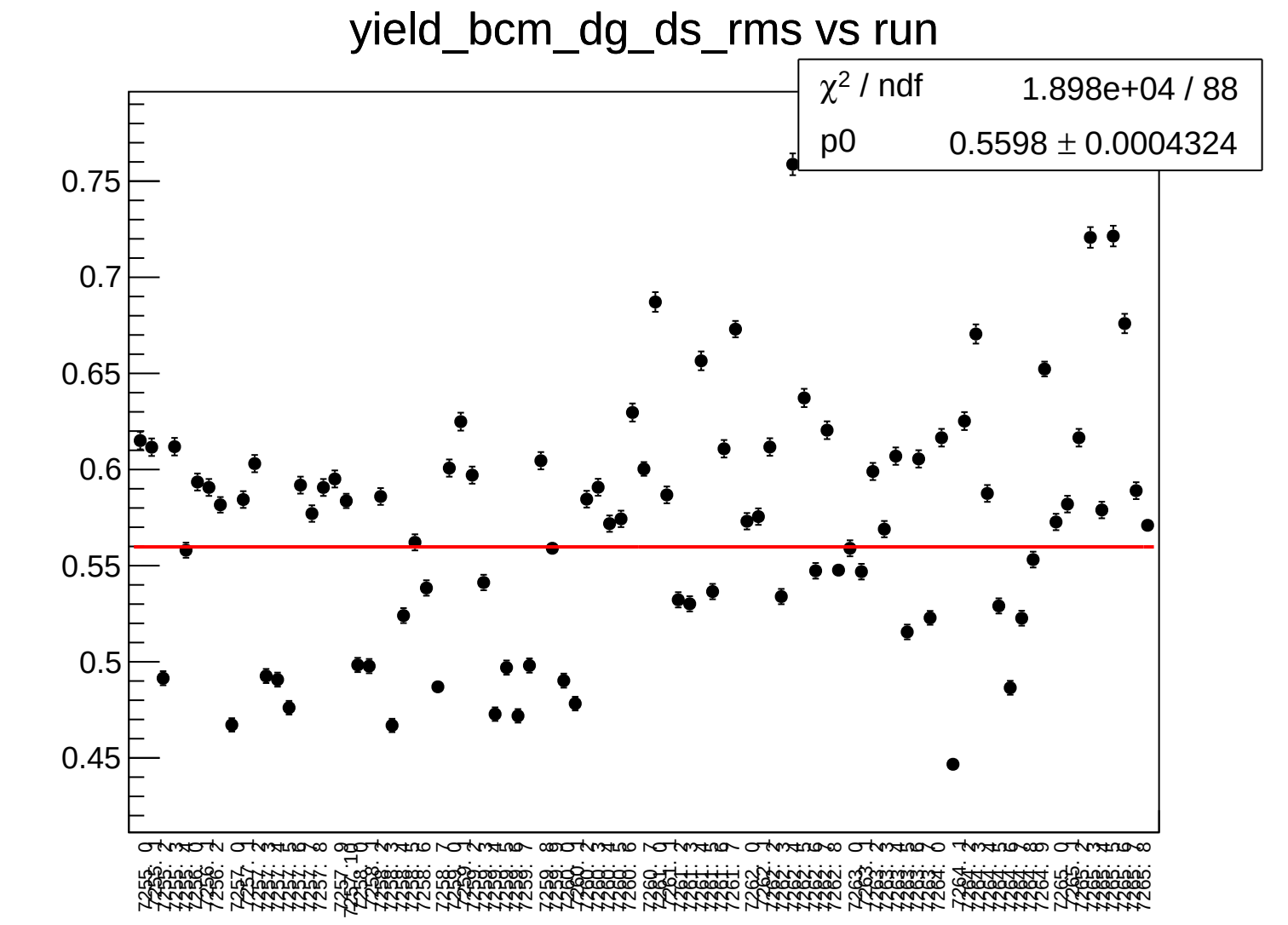

yield_bcm_dg_us_mean vs run
χ² / ndf 1.484e+05 / 88
p0 146.4 ± 0.0006125
147
146.8
146.6
146.4
146.2
146
145.8
pull
Entries 89
Mean 976.7
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

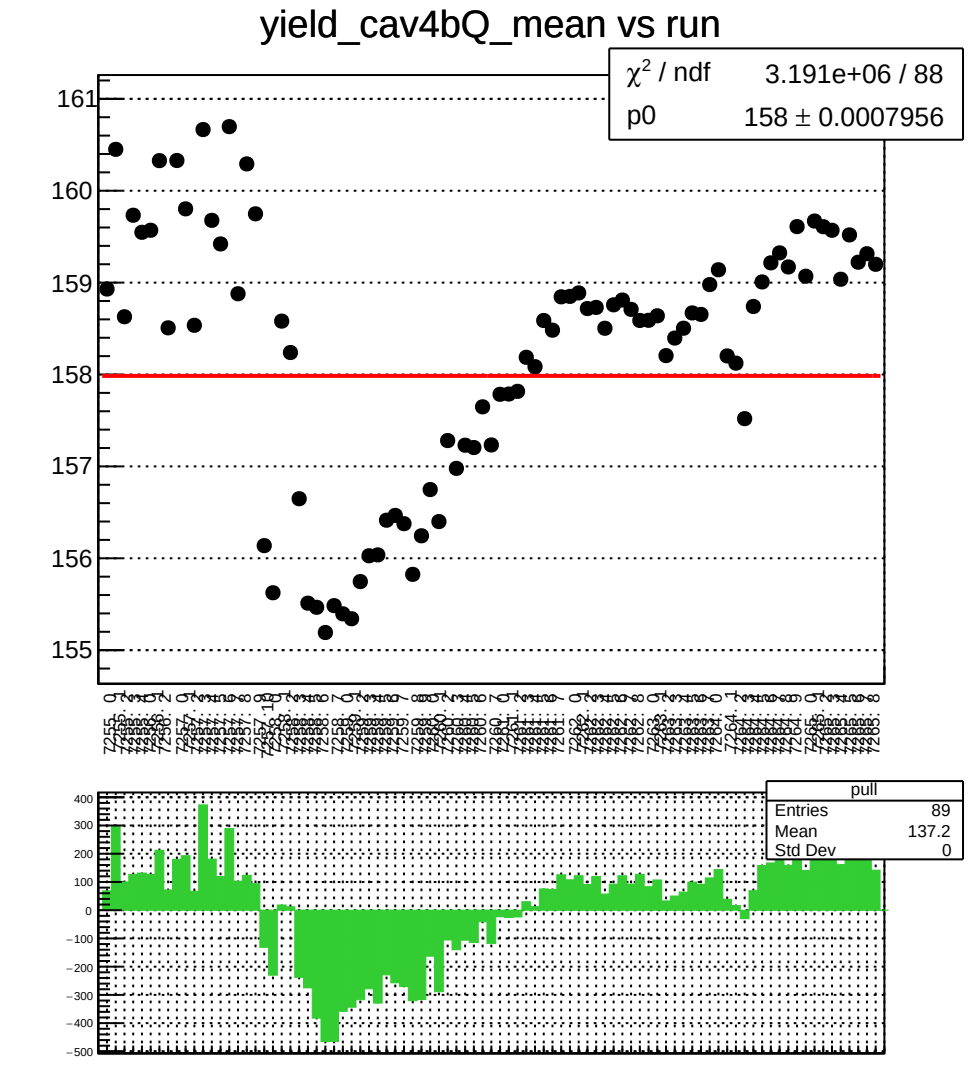

pull1D
Entries 89
Mean 1.055
Std Dev 4.876
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

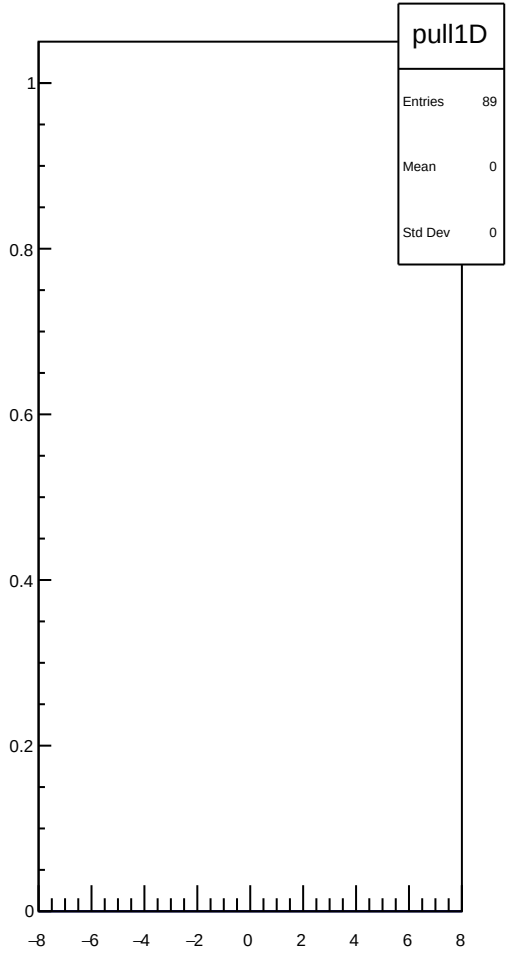

yield_bcm_dg_us_rms vs run
χ² / ndf 1.878e+04 / 88
p0 0.5607 ± 0.0004331
0.75
0.7
0.65
0.6
0.55
0.5
0.45

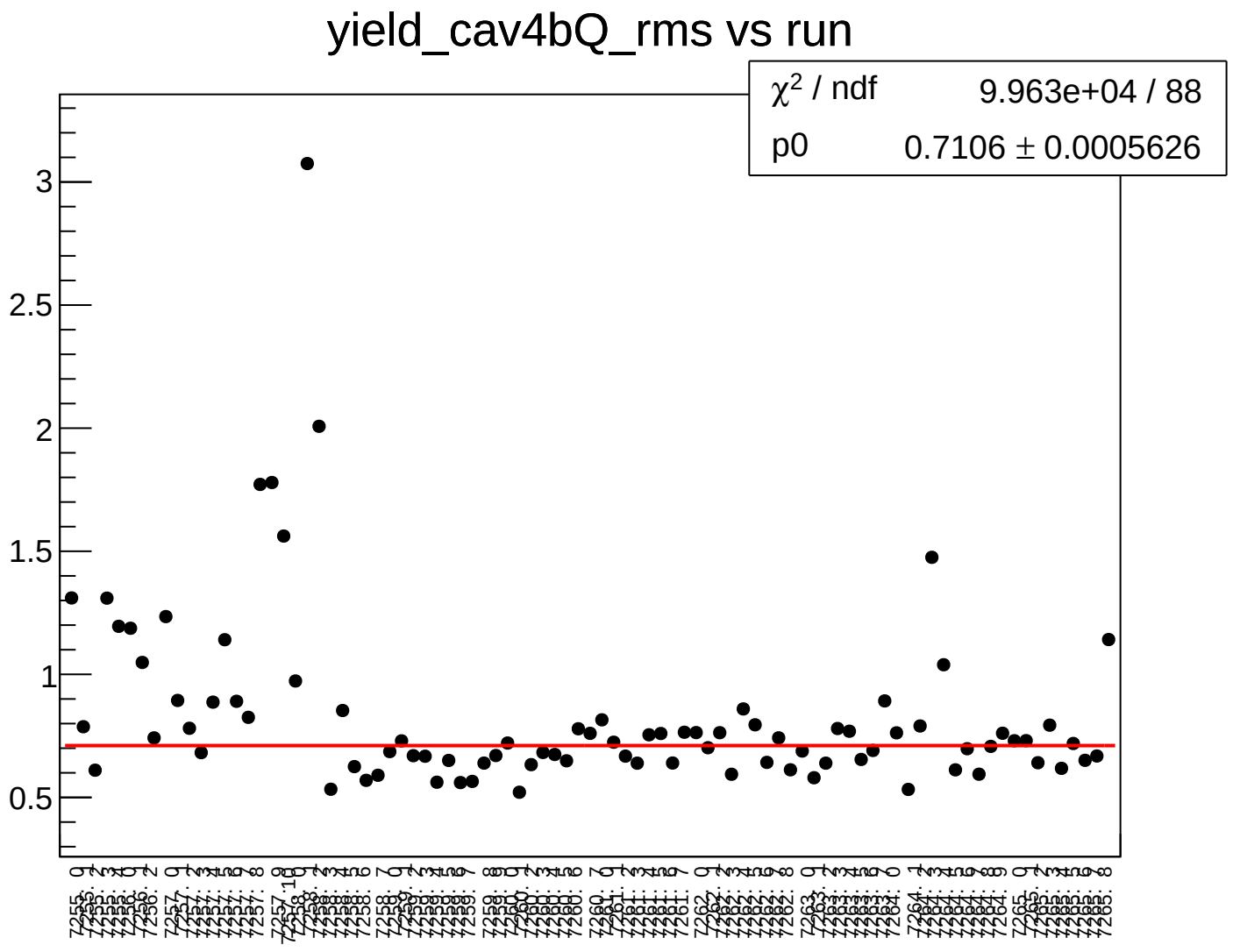

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.455e+05 / 88
p0 145 ± 0.0006115
145.6
145.4
145.2
145
144.8
144.6
144.4
pull
Entries 89
Mean 927.1
Std Dev 0
100
50
0
−50
−100

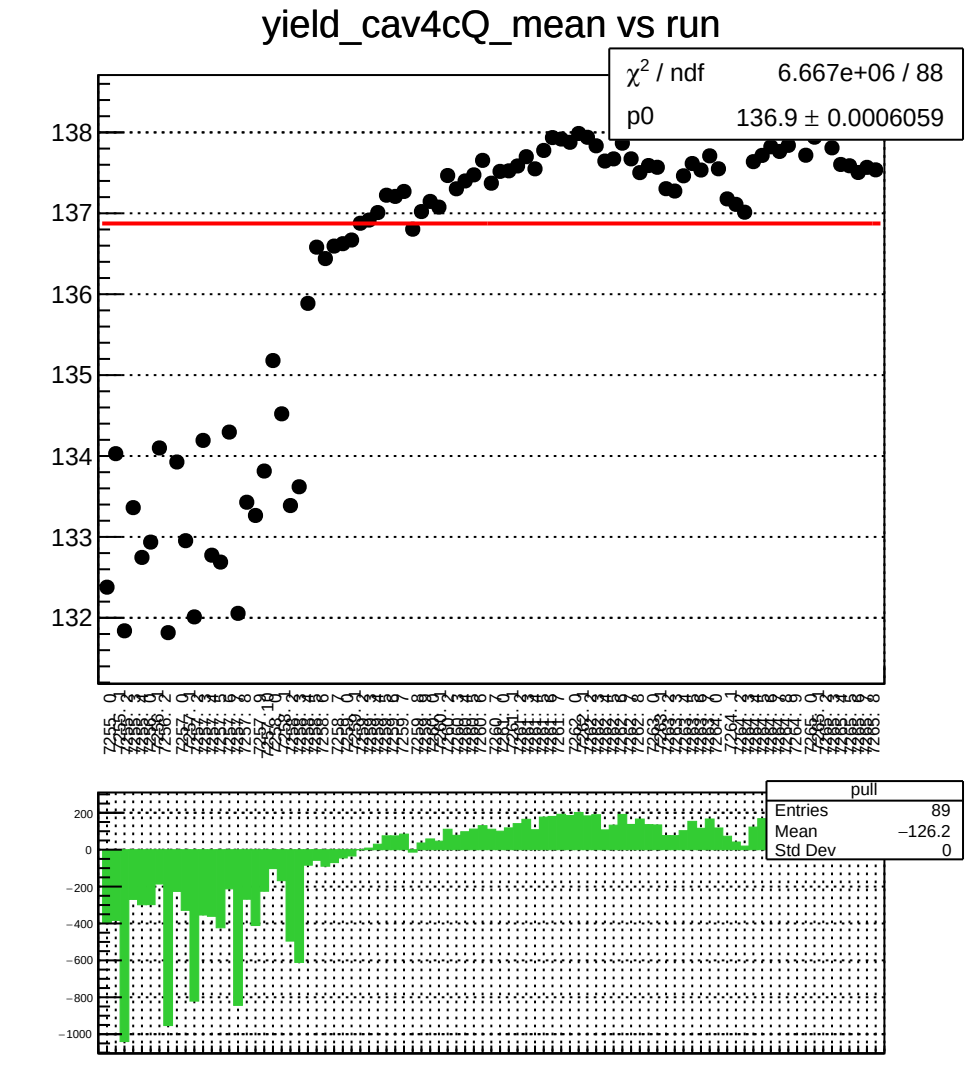

pull1D
Entries 89
Mean −0.523
Std Dev 4.711
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

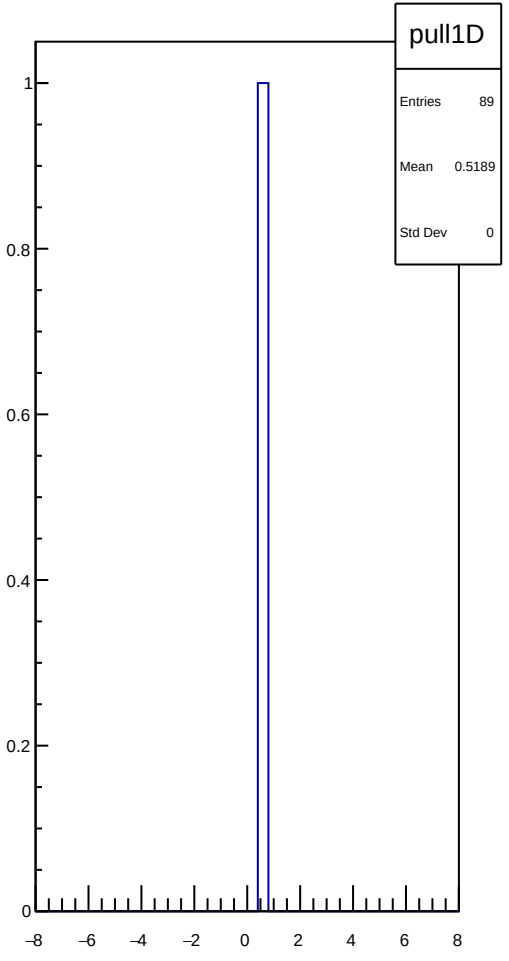

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.898e+04 / 88
p0 0.5598 ± 0.0004324
0.75
0.7
0.65
0.6
0.55
0.5
0.45


yield_cav4bQ_mean vs run
χ² / ndf 3.191e+06 / 88
p0 158 ± 0.0007956
161
160
159
158
157
156
155
pull
Entries 89
Mean 137.2
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

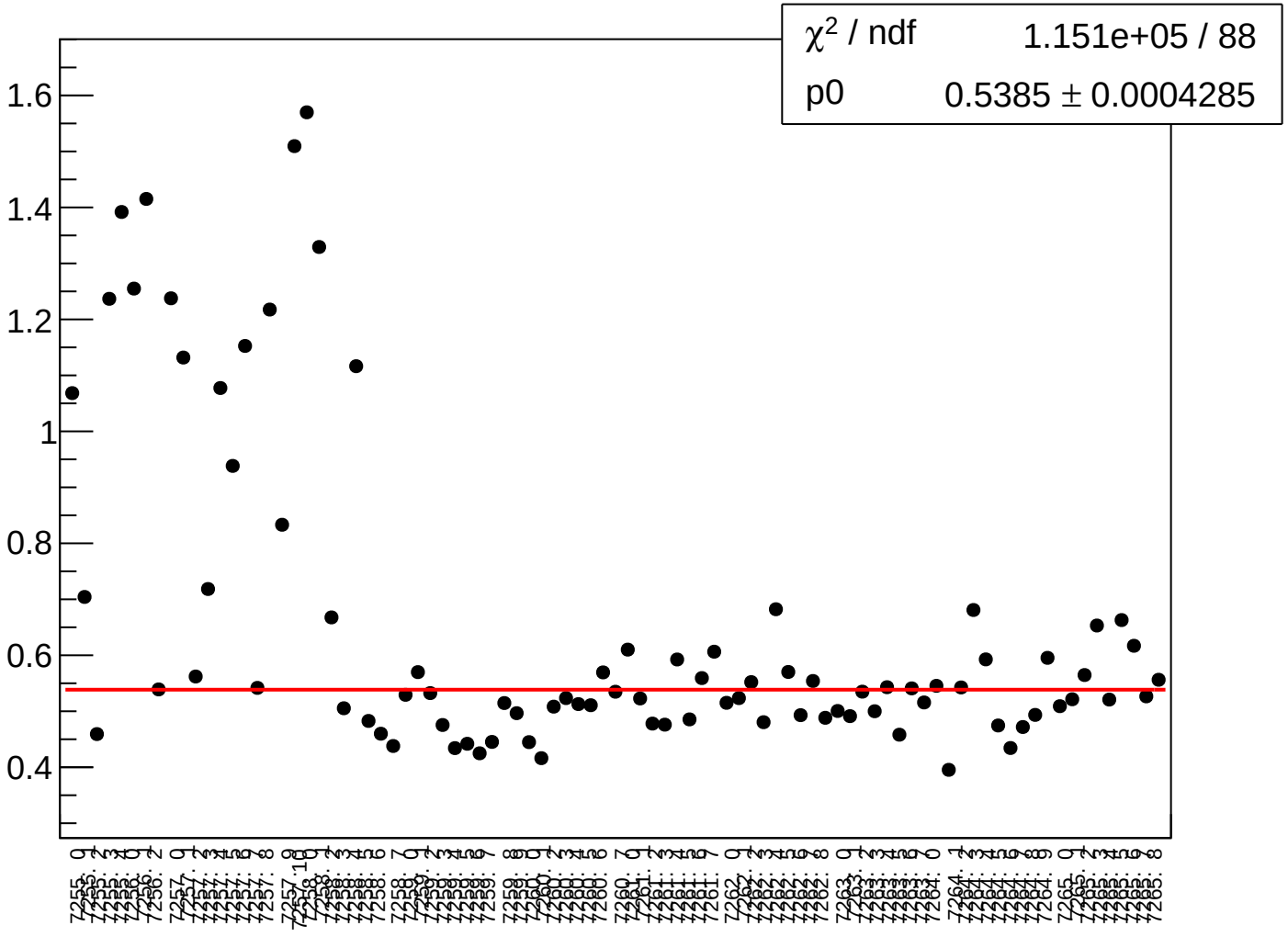

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

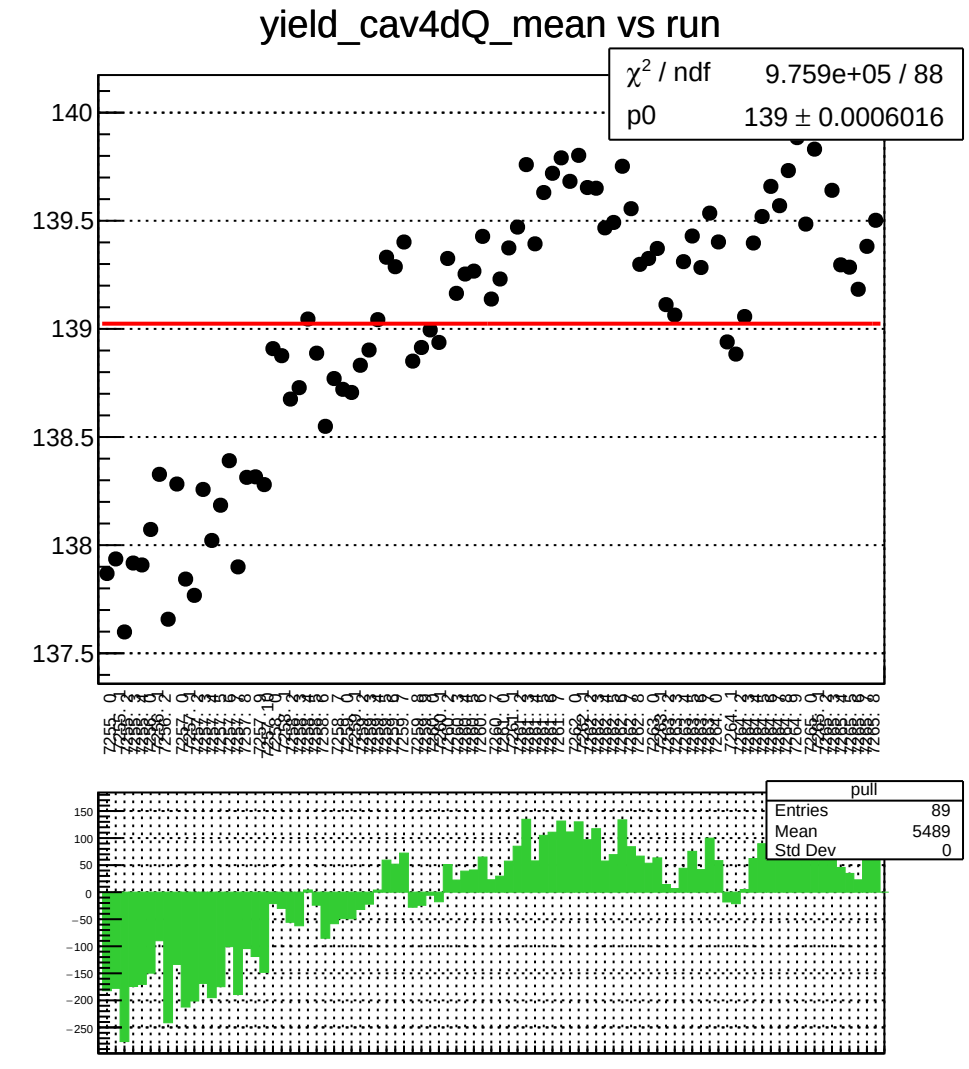

yield_cav4bQ_rms vs run
χ^2 / ndf 9.963e+04 / 88
p0 0.7106 ± 0.0005626
3
2.5
2
1.5
1
0.5

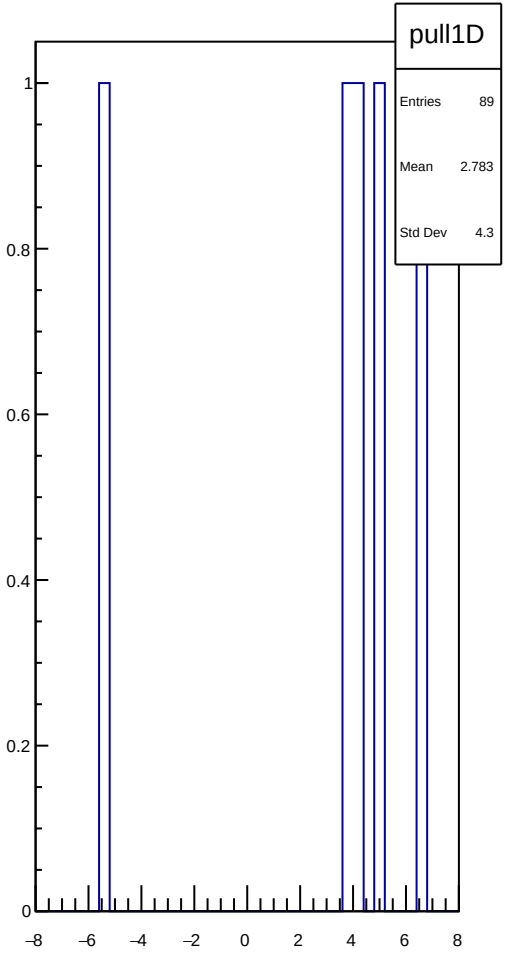

yield_cav4cQ_mean vs run
χ² / ndf 6.667e+06 / 88
p0 136.9 ± 0.0006059
138
137
136
135
134
133
132
pull
Entries 89
Mean −126.2
Std Dev 0
200
0
−200
−400
−600
−800
−1000

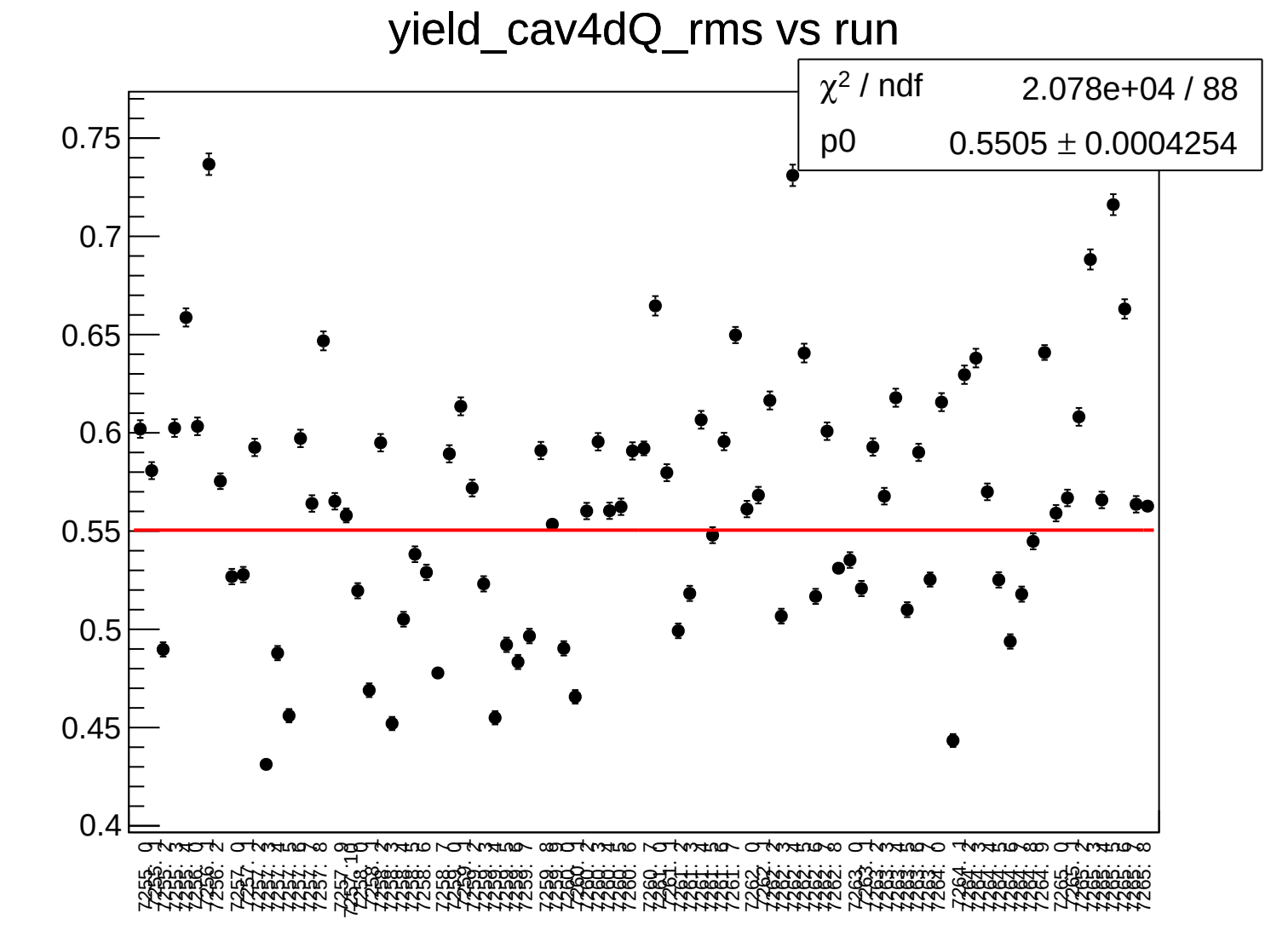

pull1D
Entries 89
Mean 0.5189
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

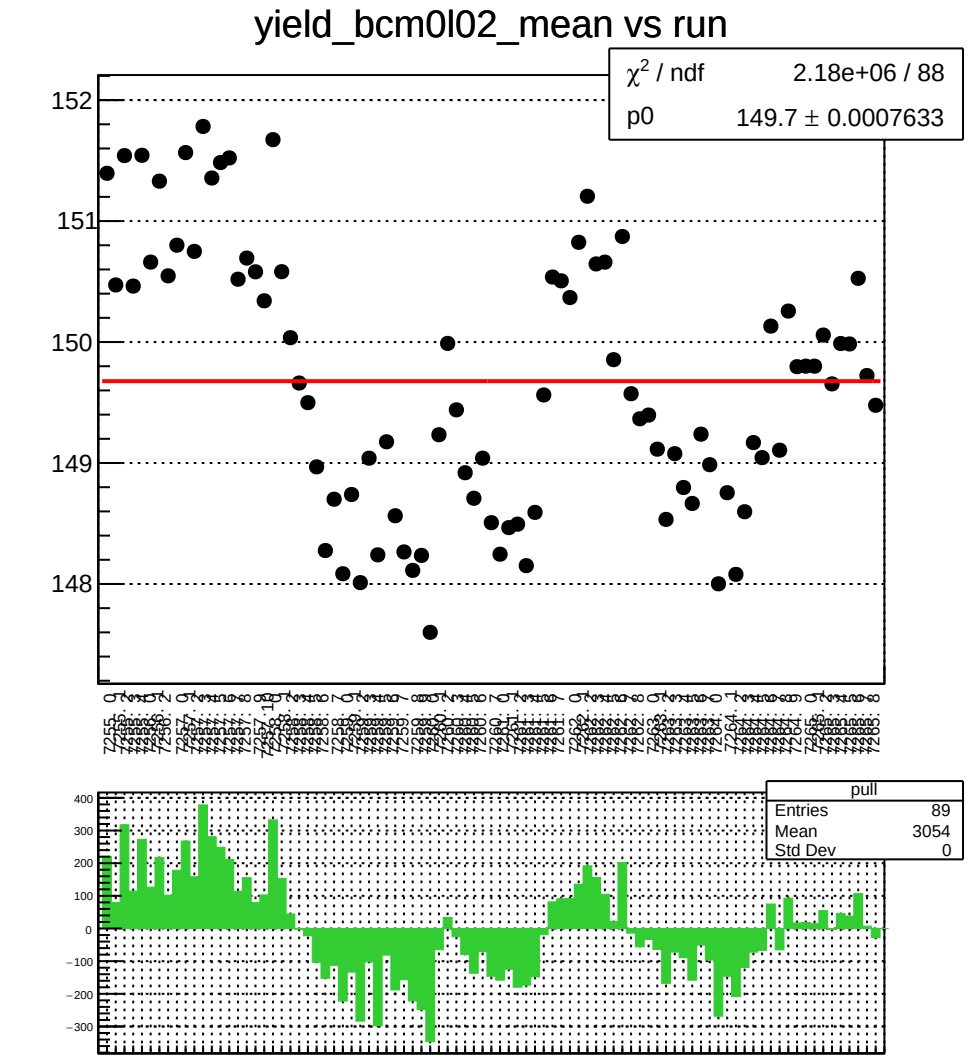
yield_cav4cQ_rms vs run

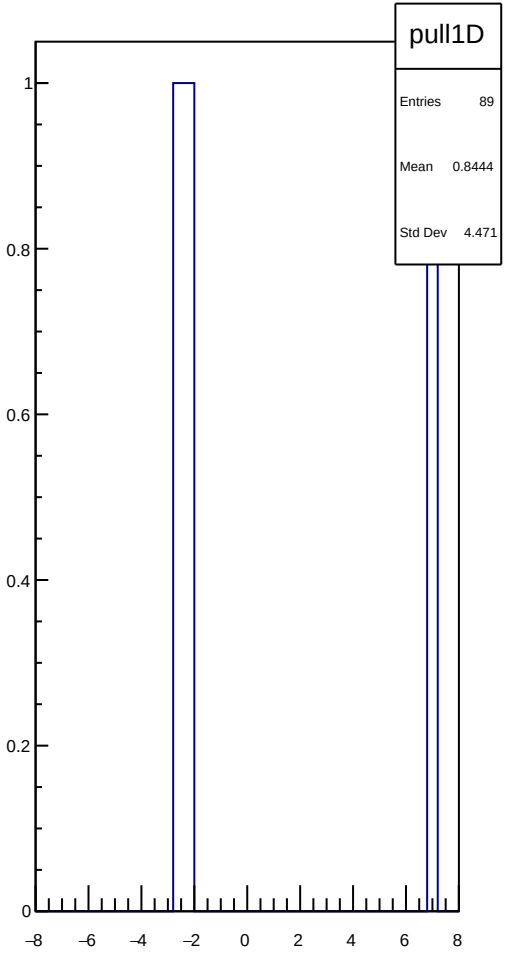


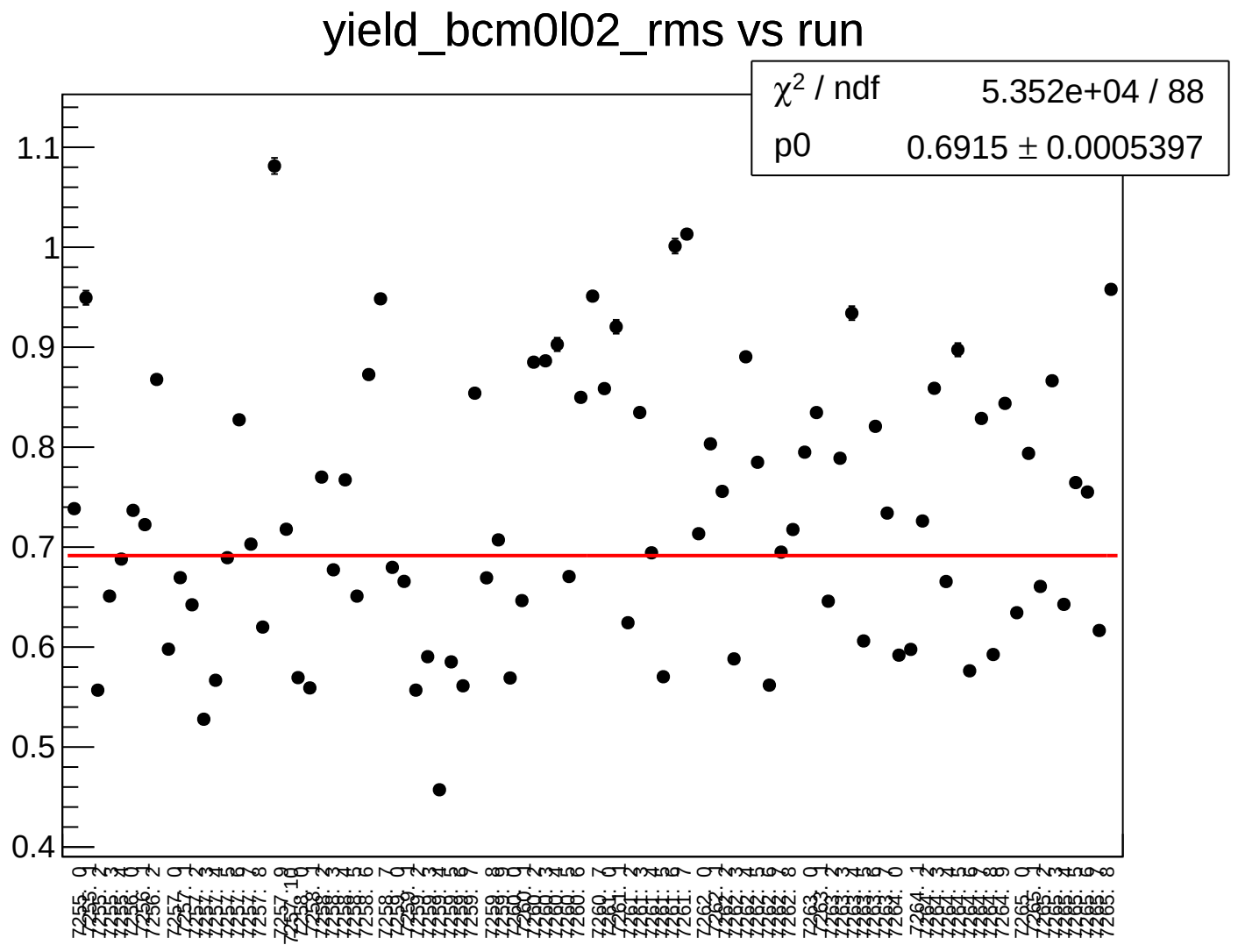

yield_cav4dQ_mean vs run
χ² / ndf 9.759e+05 / 88
p0 139 ± 0.0006016
140
139.5
139
138.5
138
137.5
pull
Entries 89
Mean 5489
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

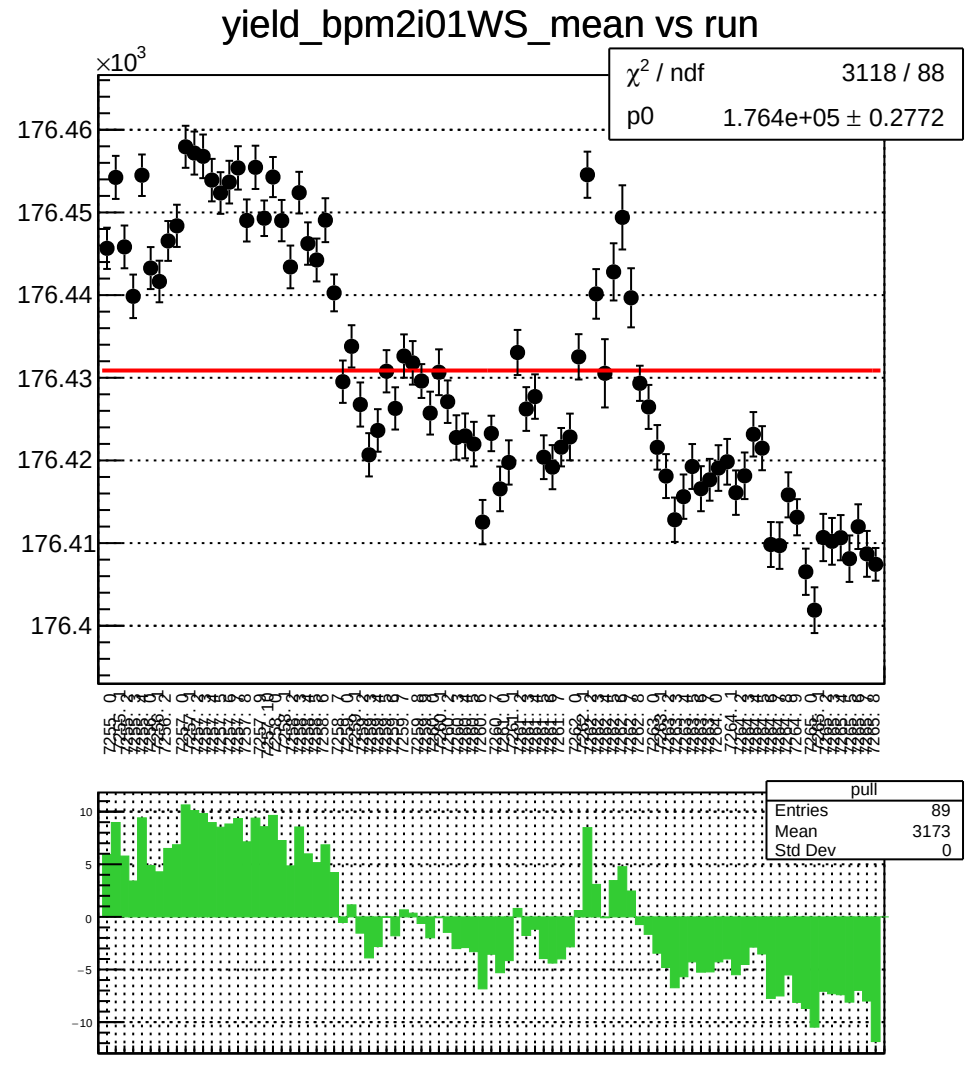

pull1D
Entries 89
Mean 2.783
Std Dev 4.3
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

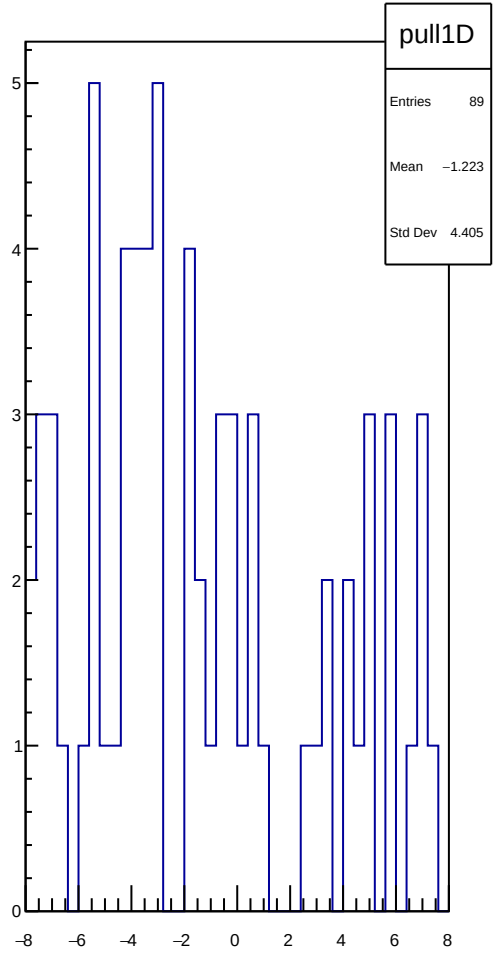

yield_cav4dQ_rms vs run
χ² / ndf 2.078e+04 / 88
p0 0.5505 ± 0.0004254
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

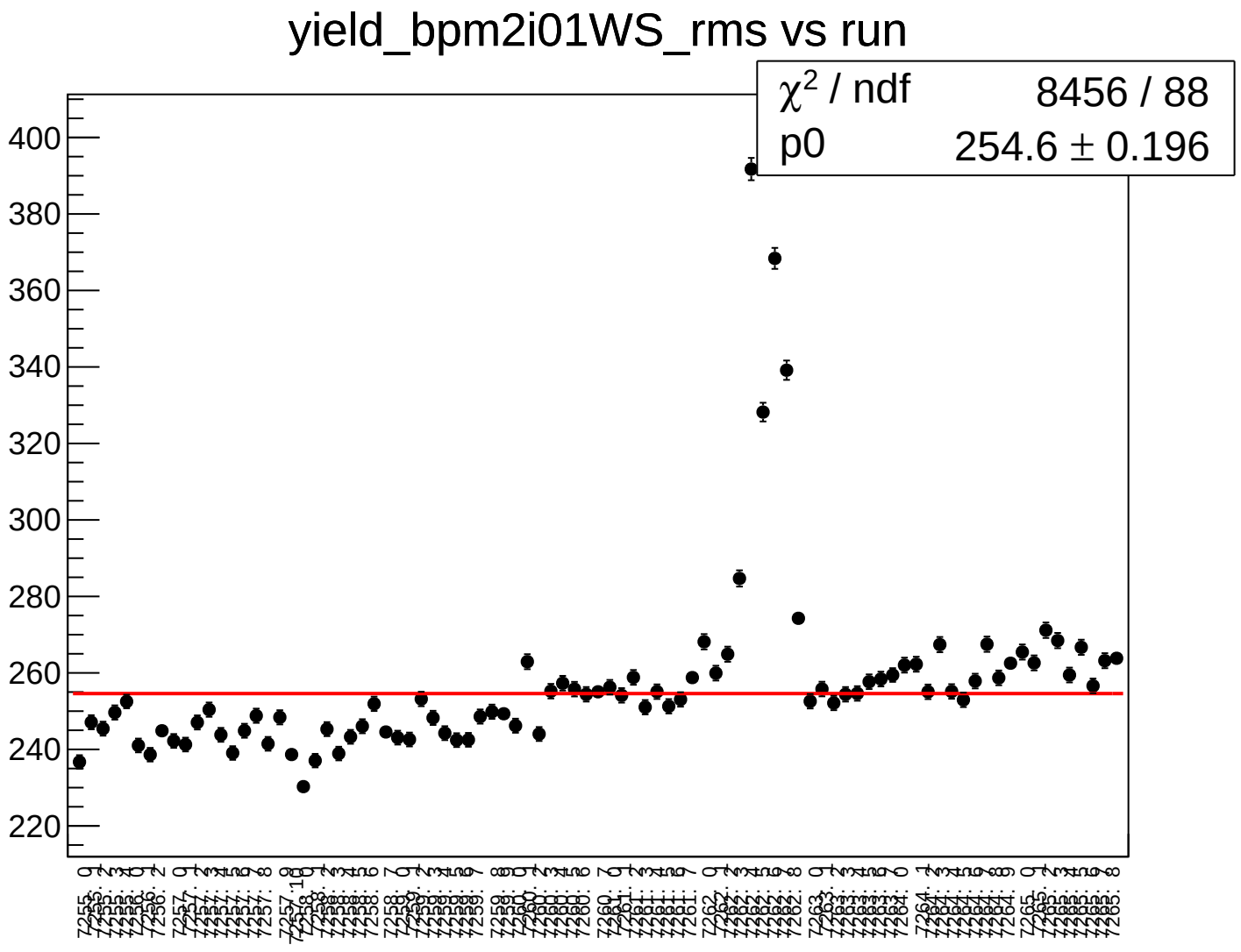

yield_bcm0l02_mean vs run
χ² / ndf 2.18e+06 / 88
p0 149.7 ± 0.0007633
152
151
150
149
148
pull
Entries 89
Mean 3054
Std Dev 0
400
300
200
100
0
−100
−200
−300

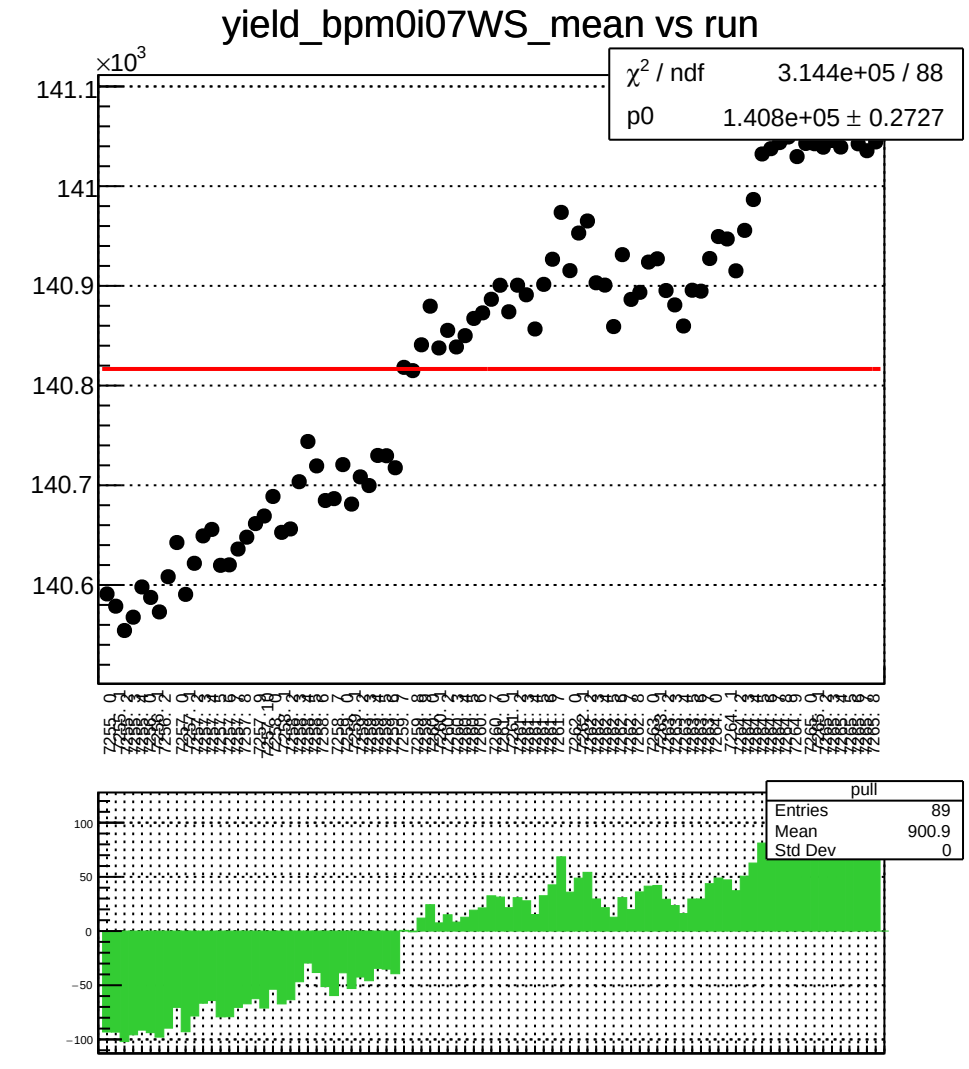

pull1D
Entries 89
Mean 0.8444
Std Dev 4.471
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

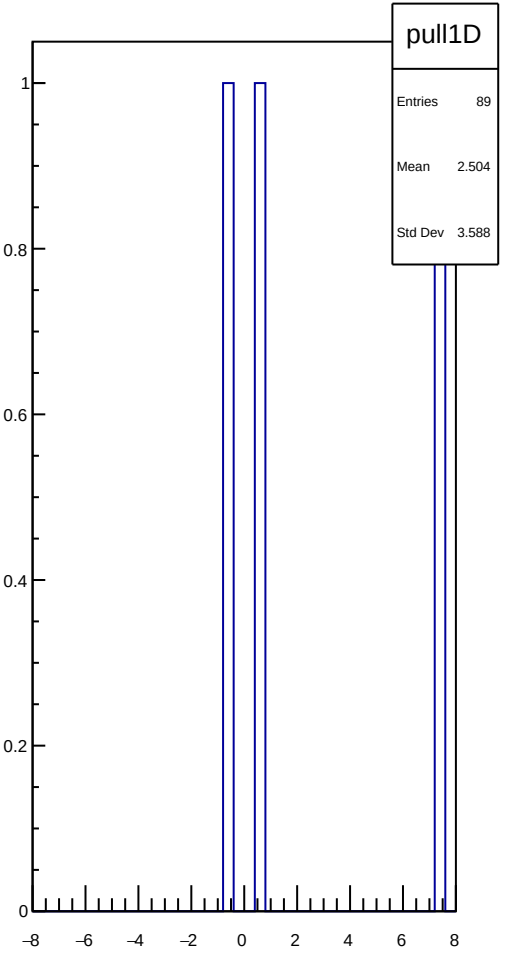

yield_bcm0l02_rms vs run
χ² / ndf 5.352e+04 / 88
p0 0.6915 ± 0.0005397
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4

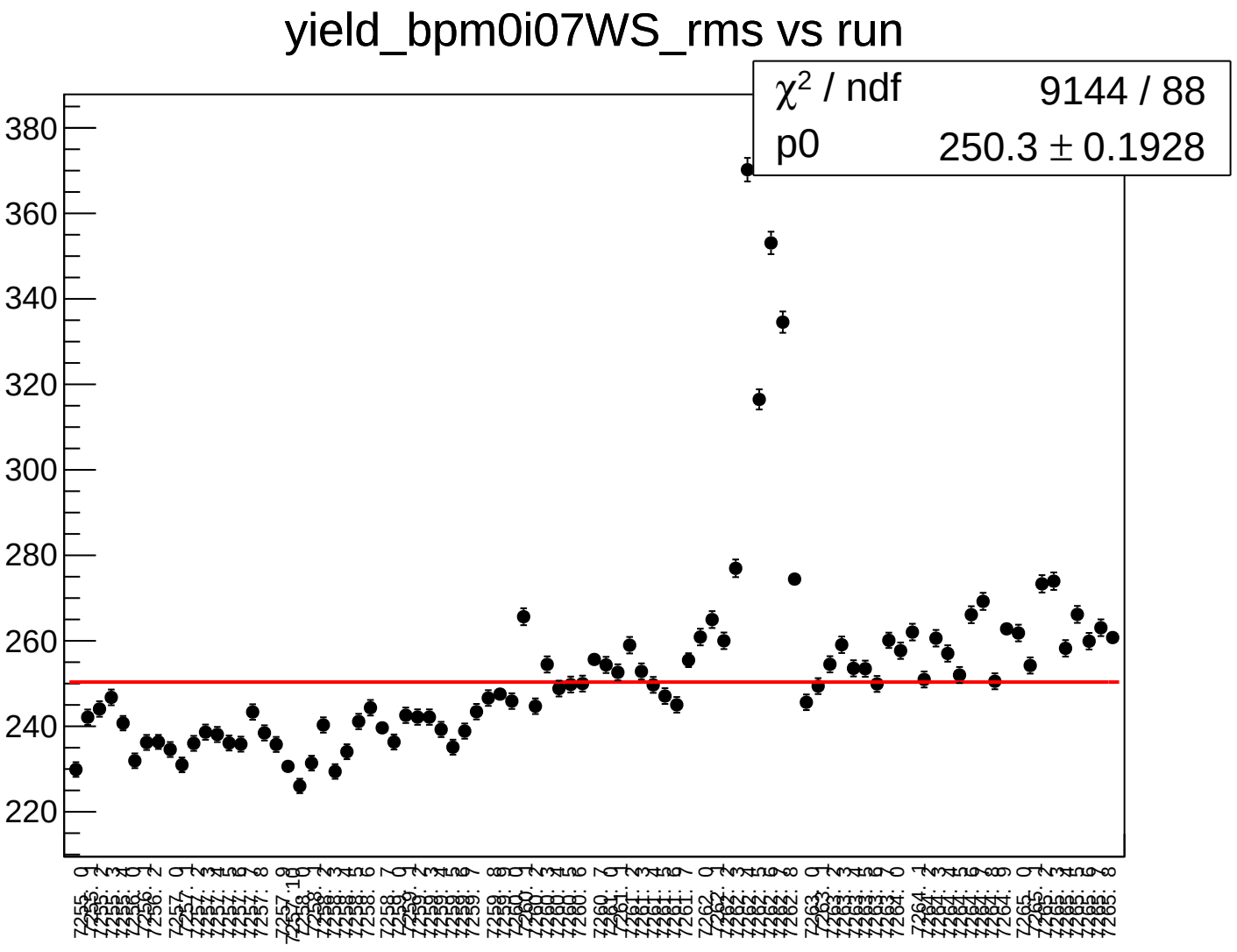

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3118 / 88
p0 1.764e+05 ± 0.2772
176.46
176.45
176.44
176.43
176.42
176.41
176.4
pull
Entries 89
Mean 3173
Std Dev 0
10
5
0
−5
−10

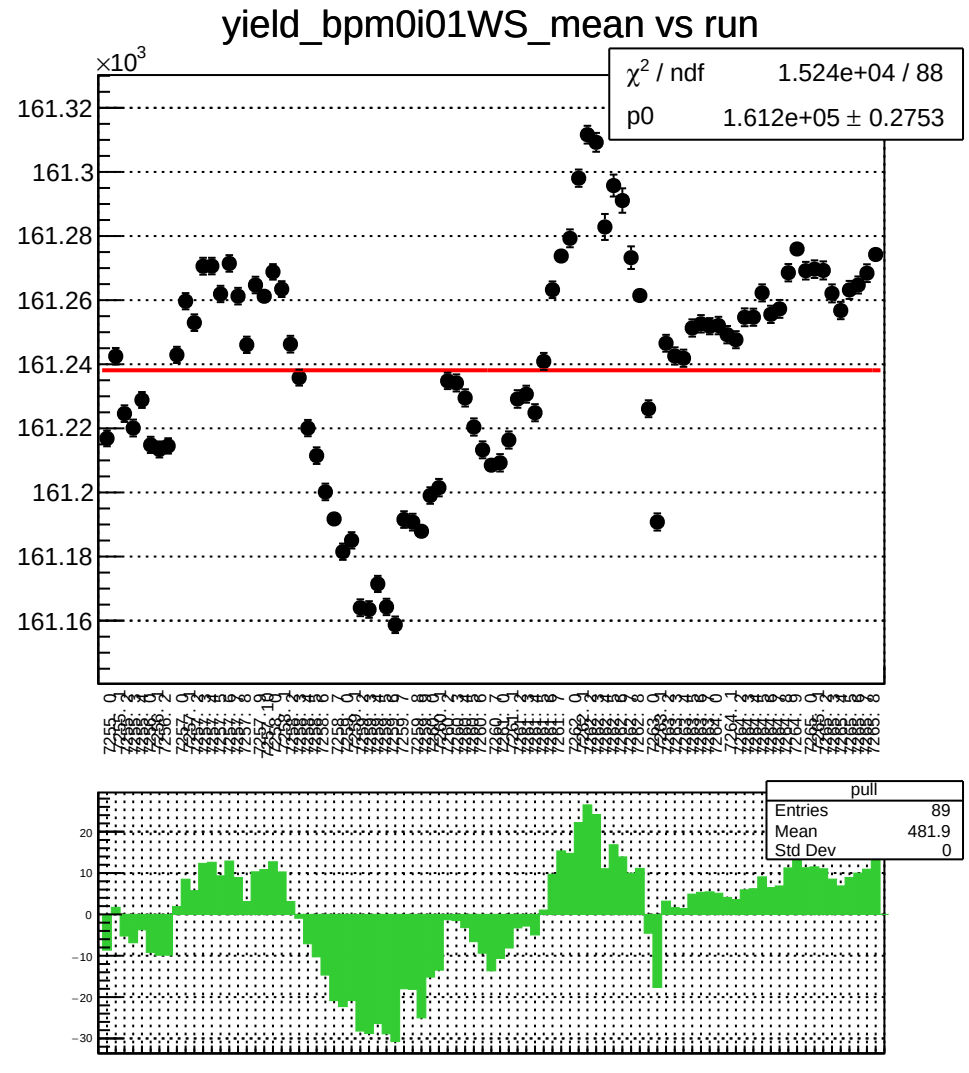

pull1D
Entries 89
Mean −1.223
Std Dev 4.405
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

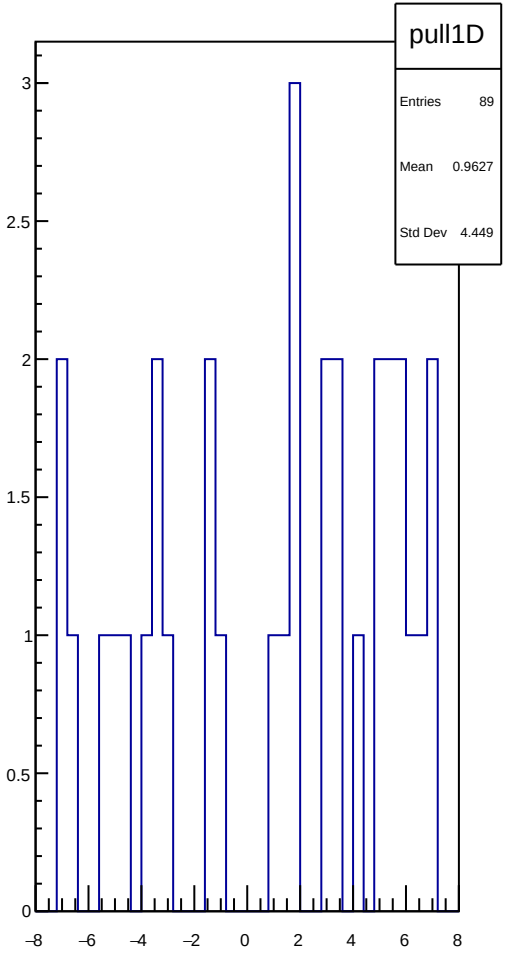

yield_bpm2i01WS_rms vs run
χ² / ndf 8456 / 88
p0 254.6 ± 0.196
400
380
360
340
320
300
280
260
240
220

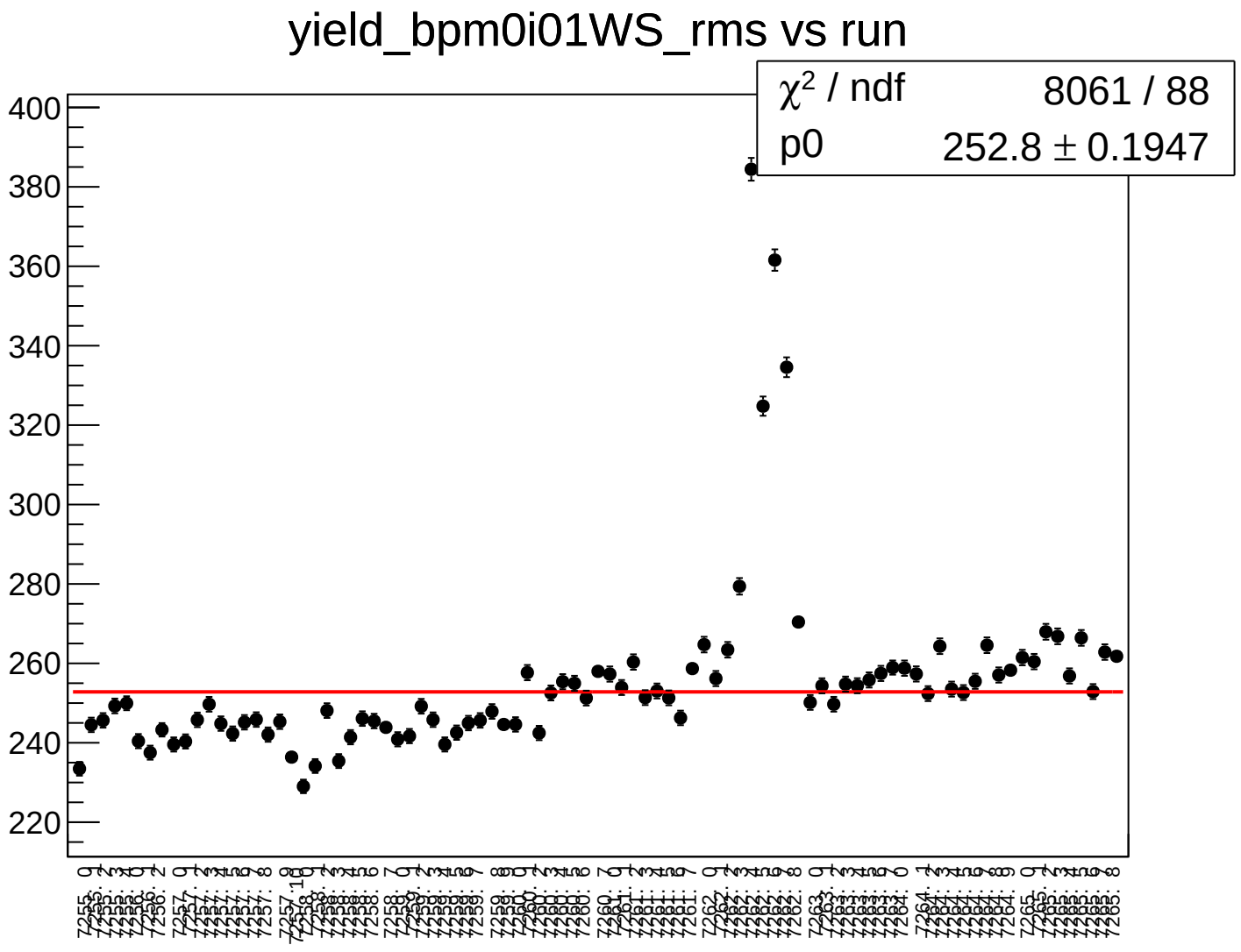

yield_bpm0i07WS_mean vs run
×10^3
141.1
141
140.9
140.8
140.7
140.6
χ² / ndf 3.144e+05 / 88
p0 1.408e+05 ± 0.2727
pull
Entries 89
Mean 900.9
Std Dev 0
100
50
0
−50
−100

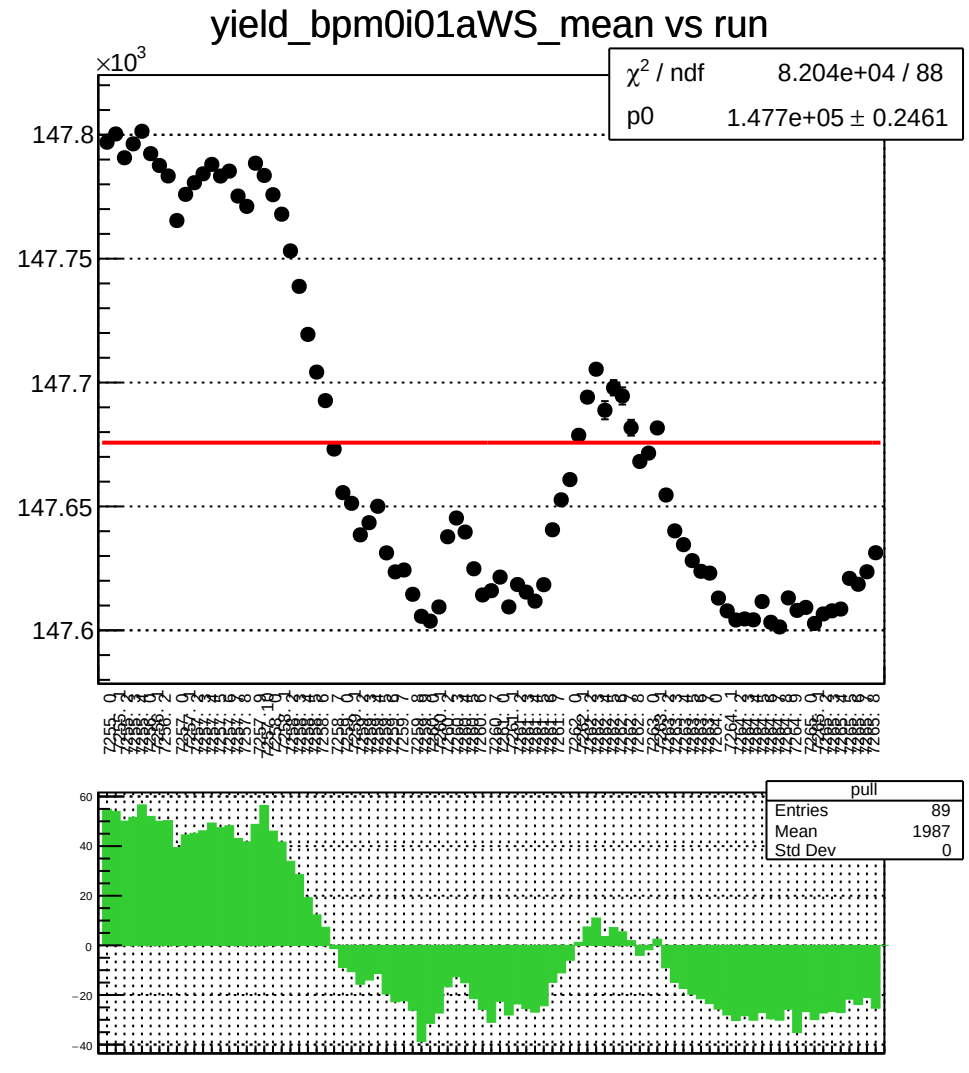

pull1D
Entries 89
Mean 2.504
Std Dev 3.588
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

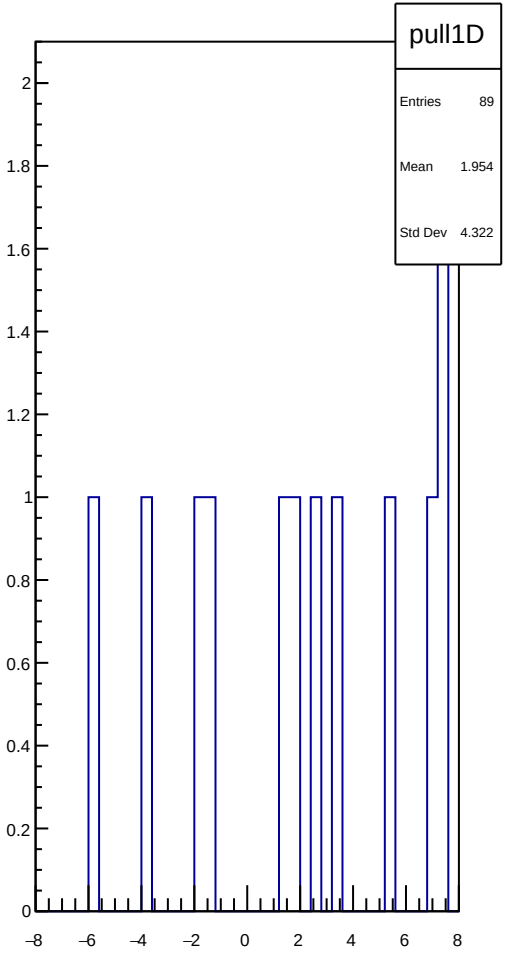

yield_bpm0i07WS_rms vs run
χ² / ndf 9144 / 88
p0 250.3 ± 0.1928
380
360
340
320
300
280
260
240
220

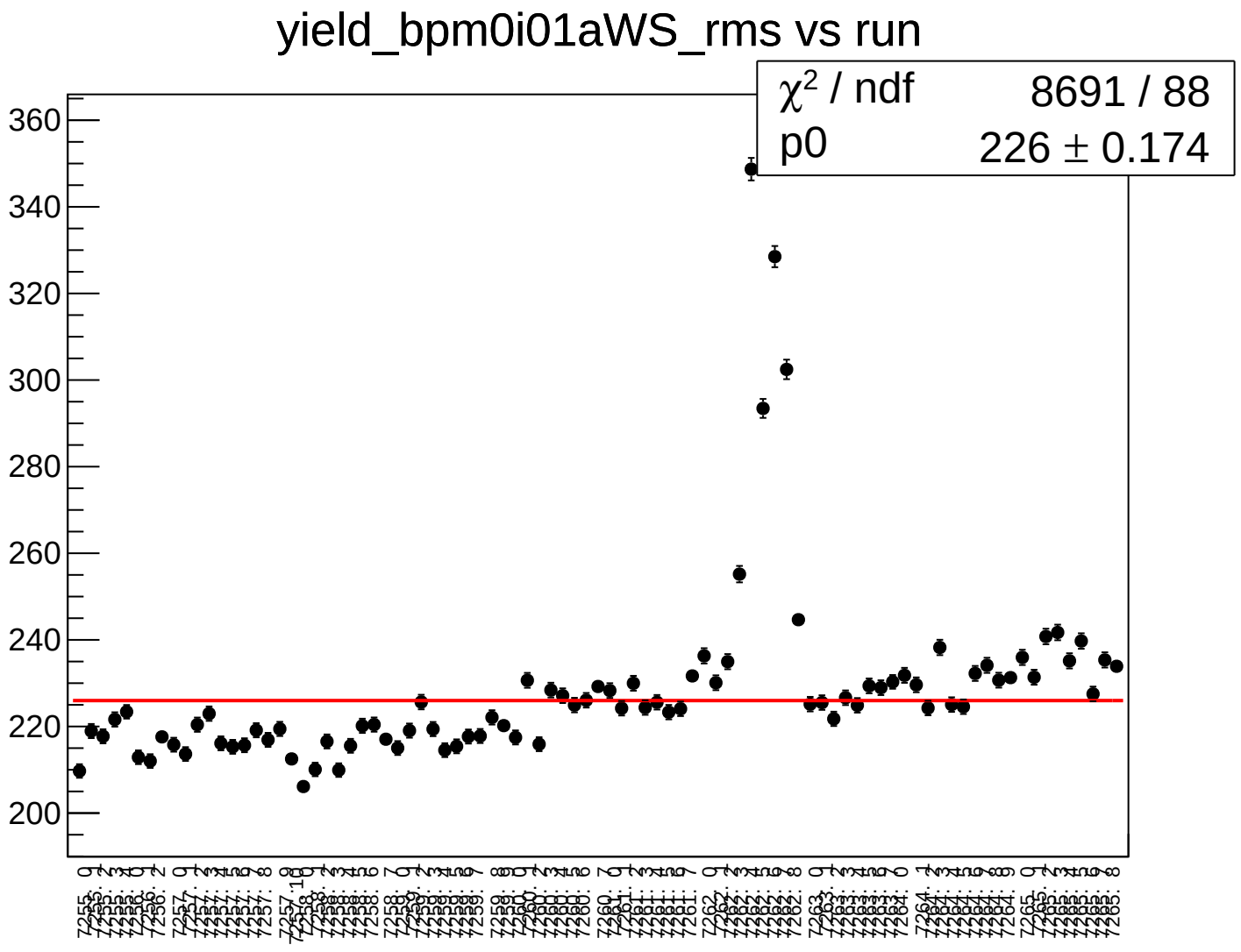

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 1.524e+04 / 88
p0 1.612e+05 ± 0.2753
161.32
161.3
161.28
161.26
161.24
161.22
161.2
161.18
161.16
pull
Entries 89
Mean 481.9
Std Dev 0
20
10
0
−10
−20
−30

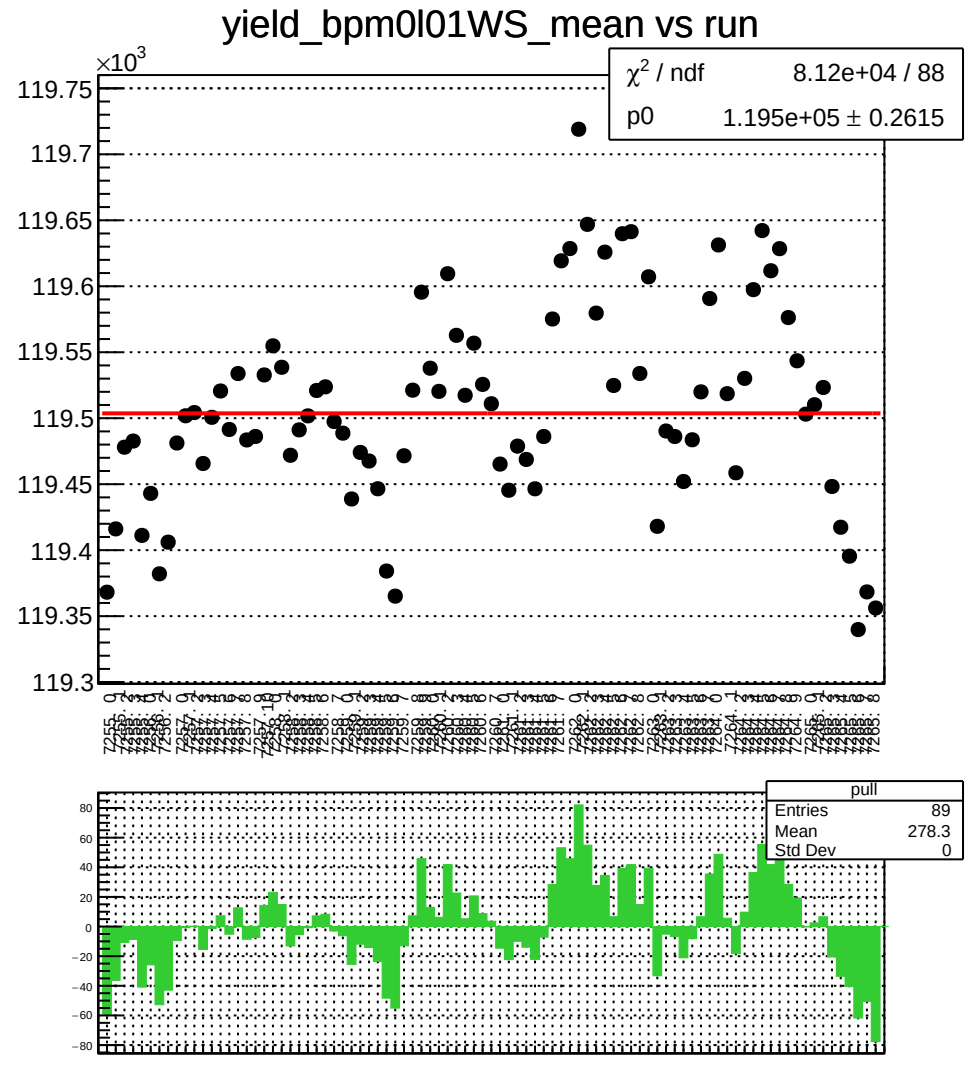

pull1D
Entries 89
Mean 0.9627
Std Dev 4.449
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

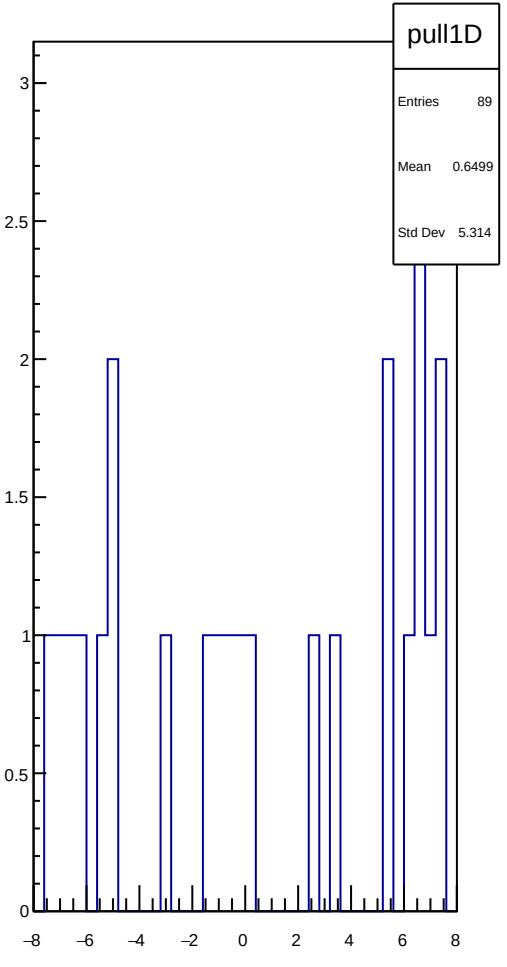

yield_bpm0i01WS_rms vs run
χ² / ndf 8061 / 88
p0 252.8 ± 0.1947
400
380
360
340
320
300
280
260
240
220

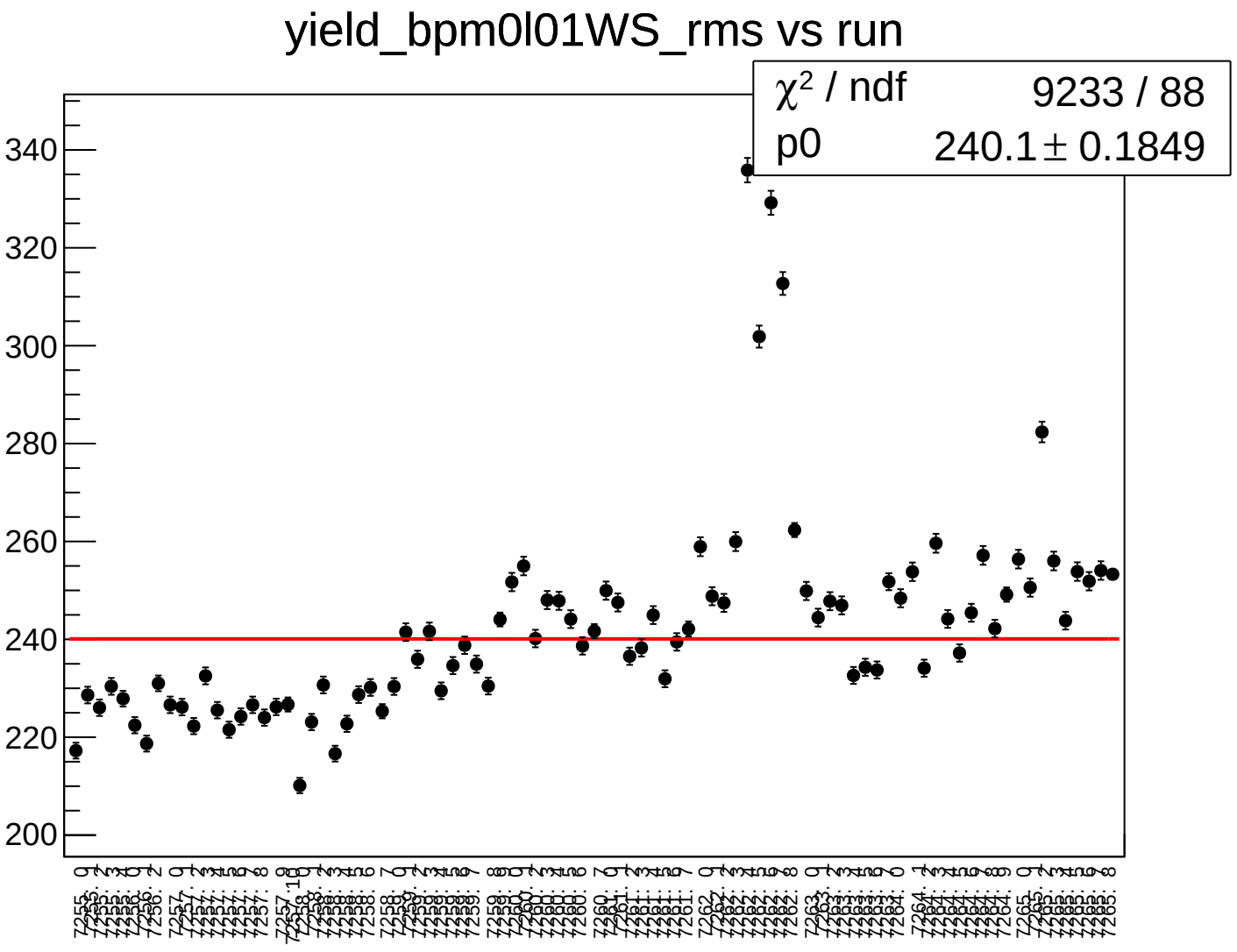

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 8.204e+04 / 88
p0 1.477e+05 ± 0.2461
147.8
147.75
147.7
147.65
147.6
pull
Entries 89
Mean 1987
Std Dev 0
60
40
20
0
−20
−40

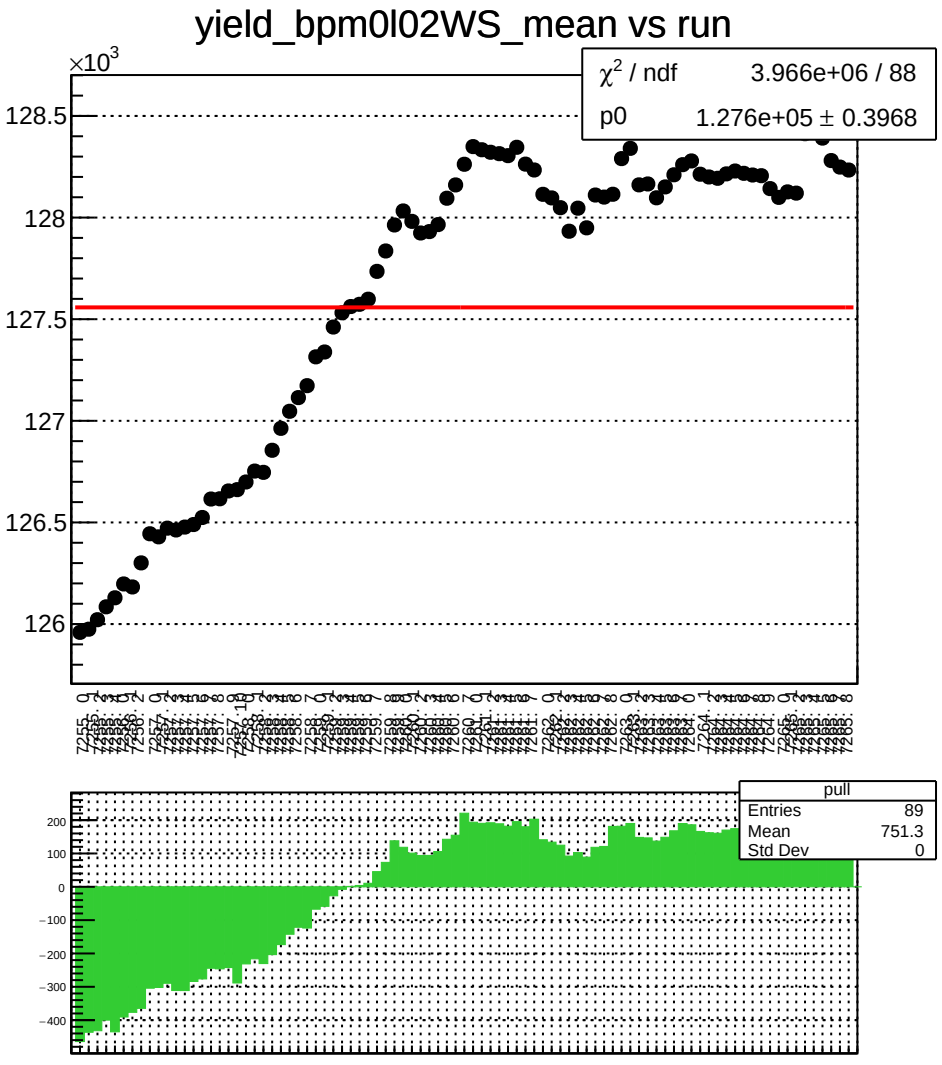

pull1D
Entries 89
Mean 1.954
Std Dev 4.322
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

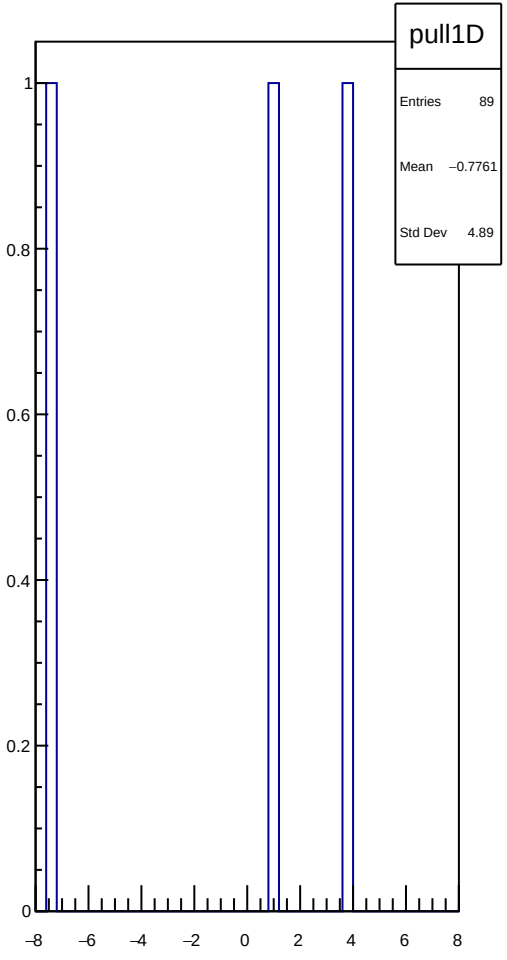

yield_bpm0i01aWS_rms vs run
χ² / ndf 8691 / 88
p0 226 ± 0.174
360
340
320
300
280
260
240
220
200

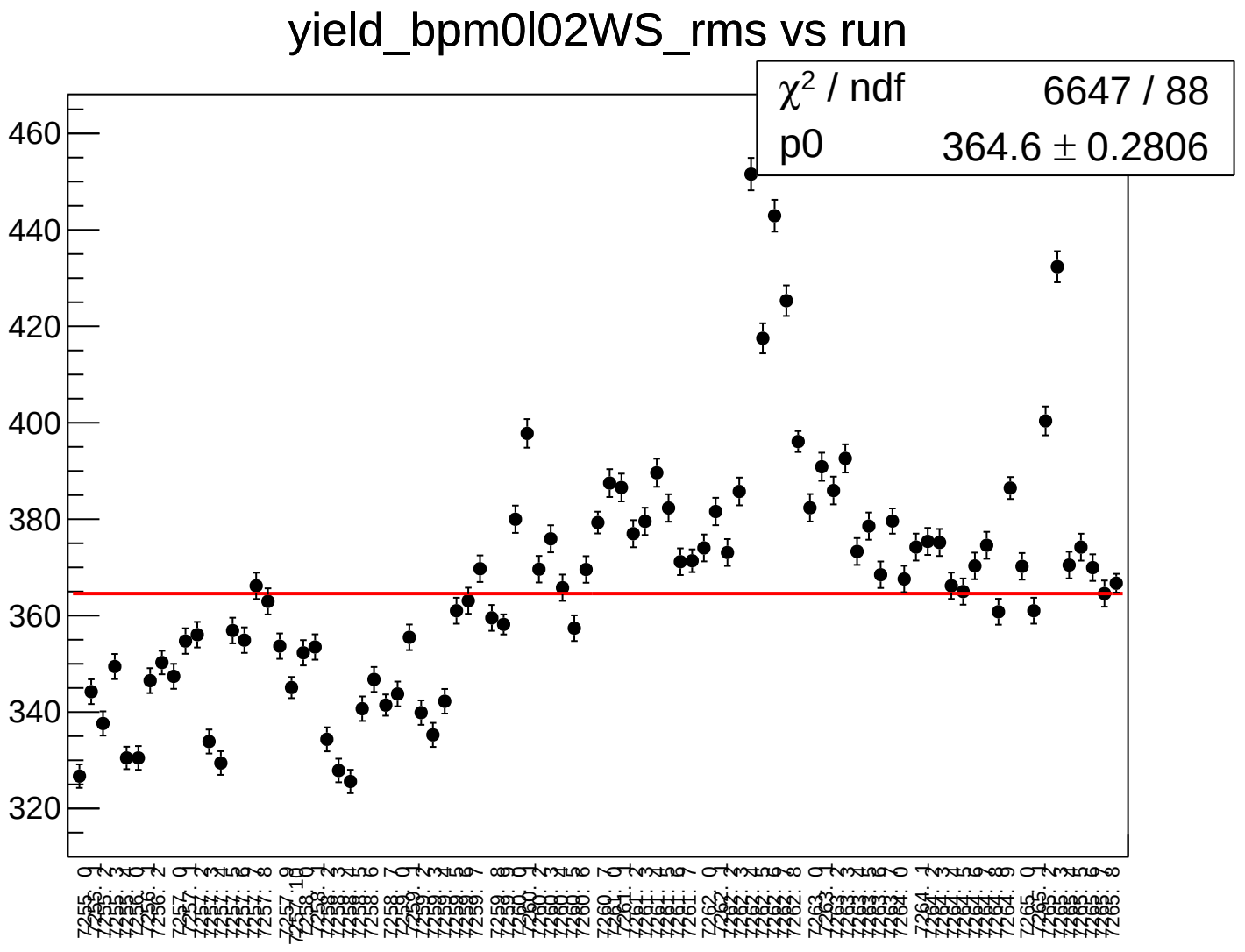

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 8.12e+04 / 88
p0 1.195e+05 ± 0.2615
119.75
119.7
119.65
119.6
119.55
119.5
119.45
119.4
119.35
119.3
pull
Entries 89
Mean 278.3
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

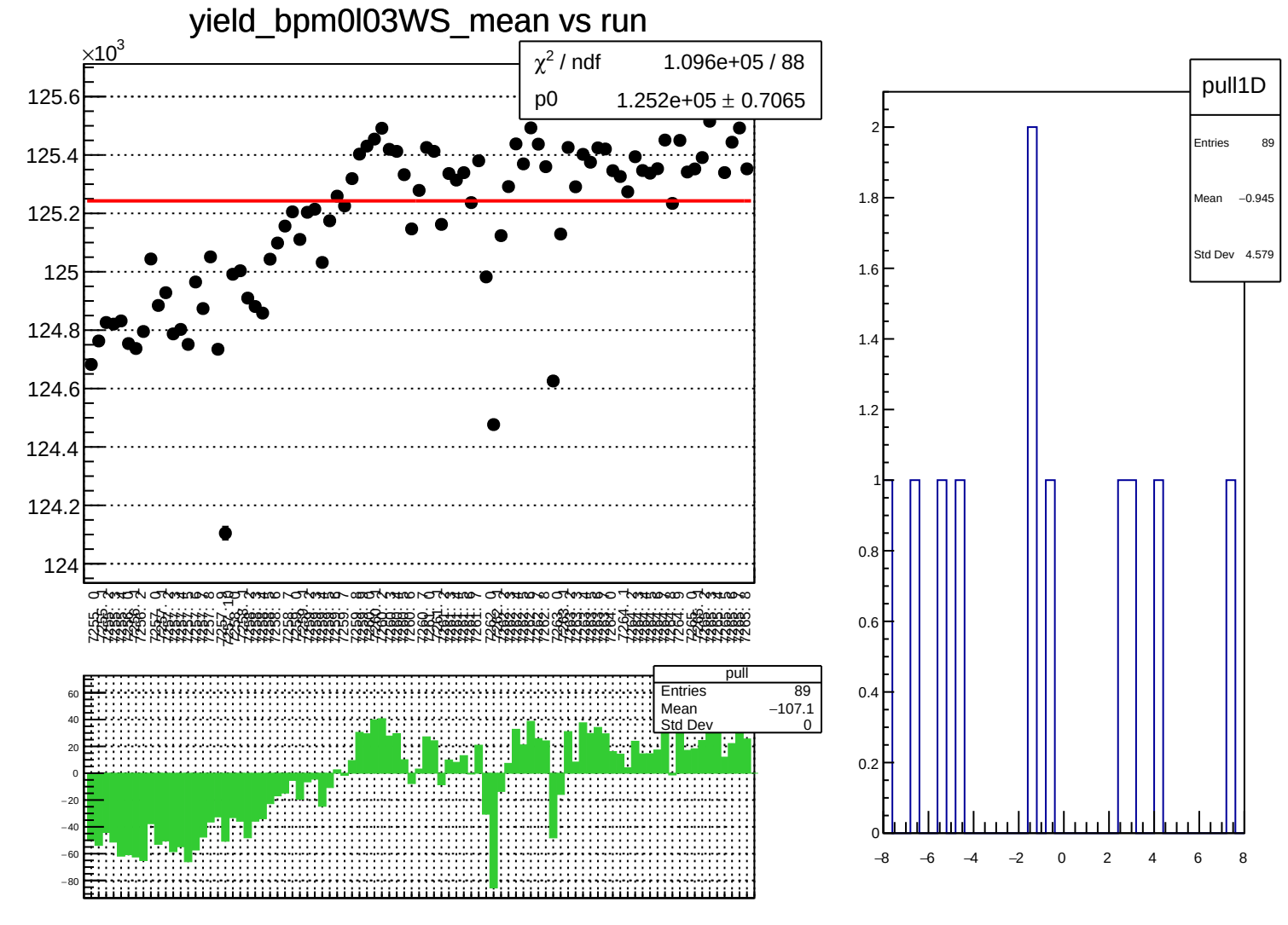

pull1D
Entries 89
Mean 0.6499
Std Dev 5.314
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

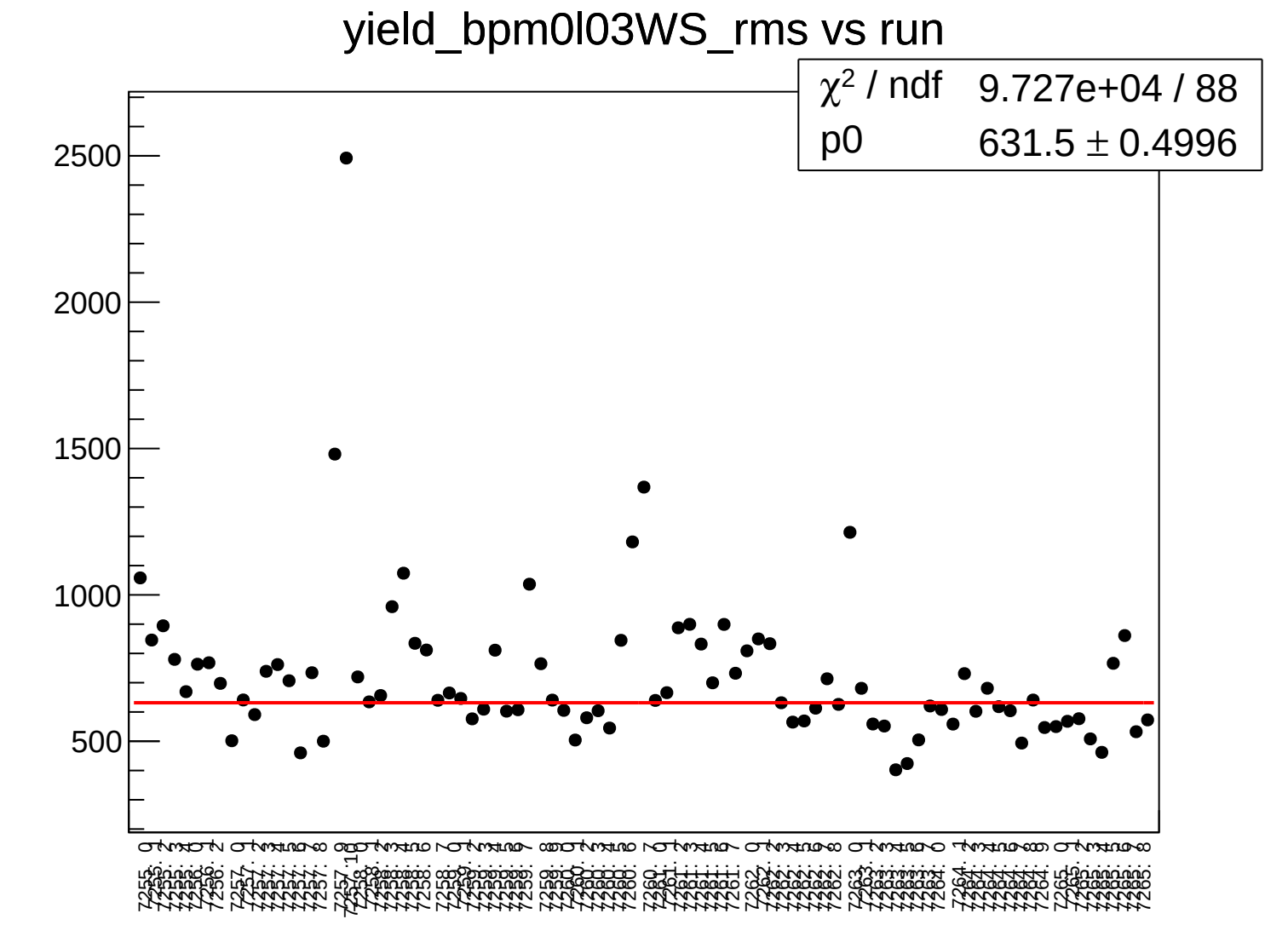

yield_bpm0l01WS_rms vs run
χ² / ndf 9233 / 88
p0 240.1 ± 0.1849
340
320
300
280
260
240
220
200

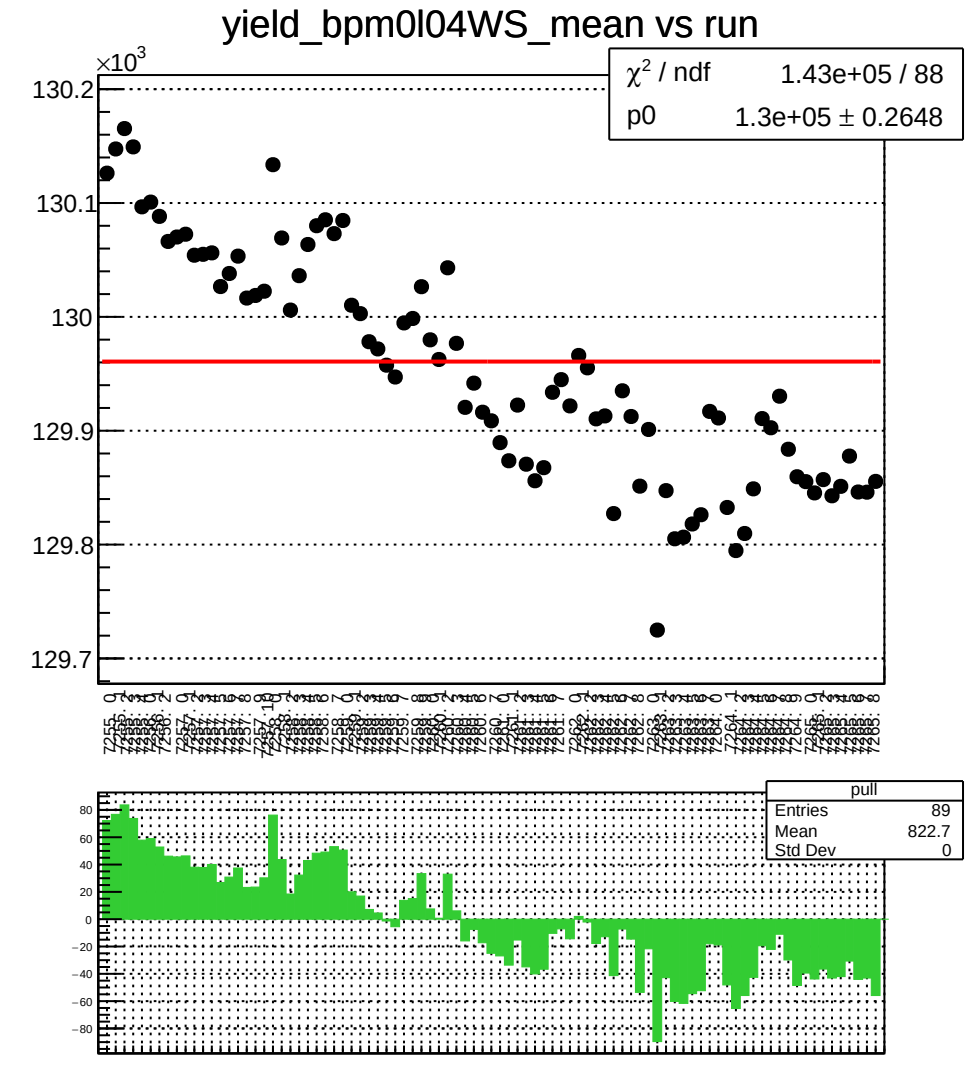

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 3.966e+06 / 88
p0 1.276e+05 ± 0.3968
128.5
128
127.5
127
126.5
126
pull
Entries 89
Mean 751.3
Std Dev 0
200
100
0
−100
−200
−300
−400

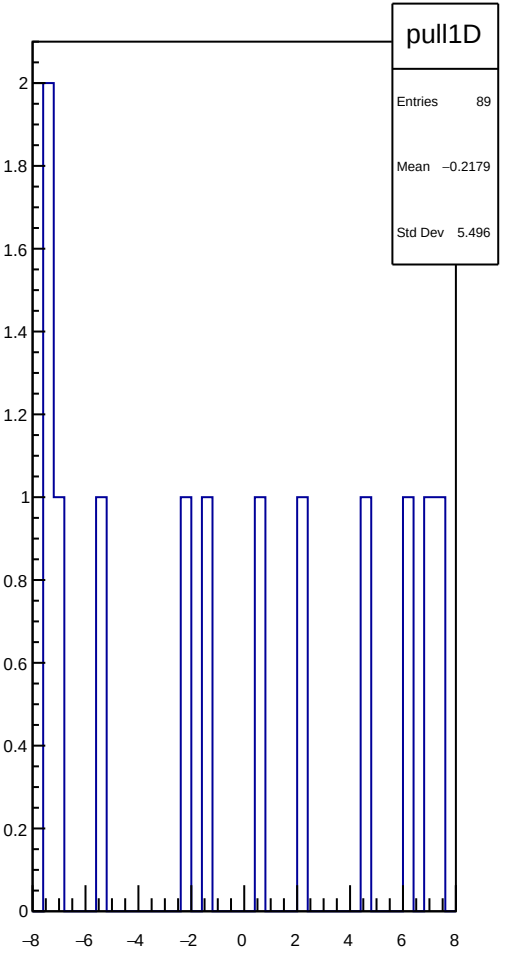

pull1D
Entries 89
Mean −0.7761
Std Dev 4.89
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

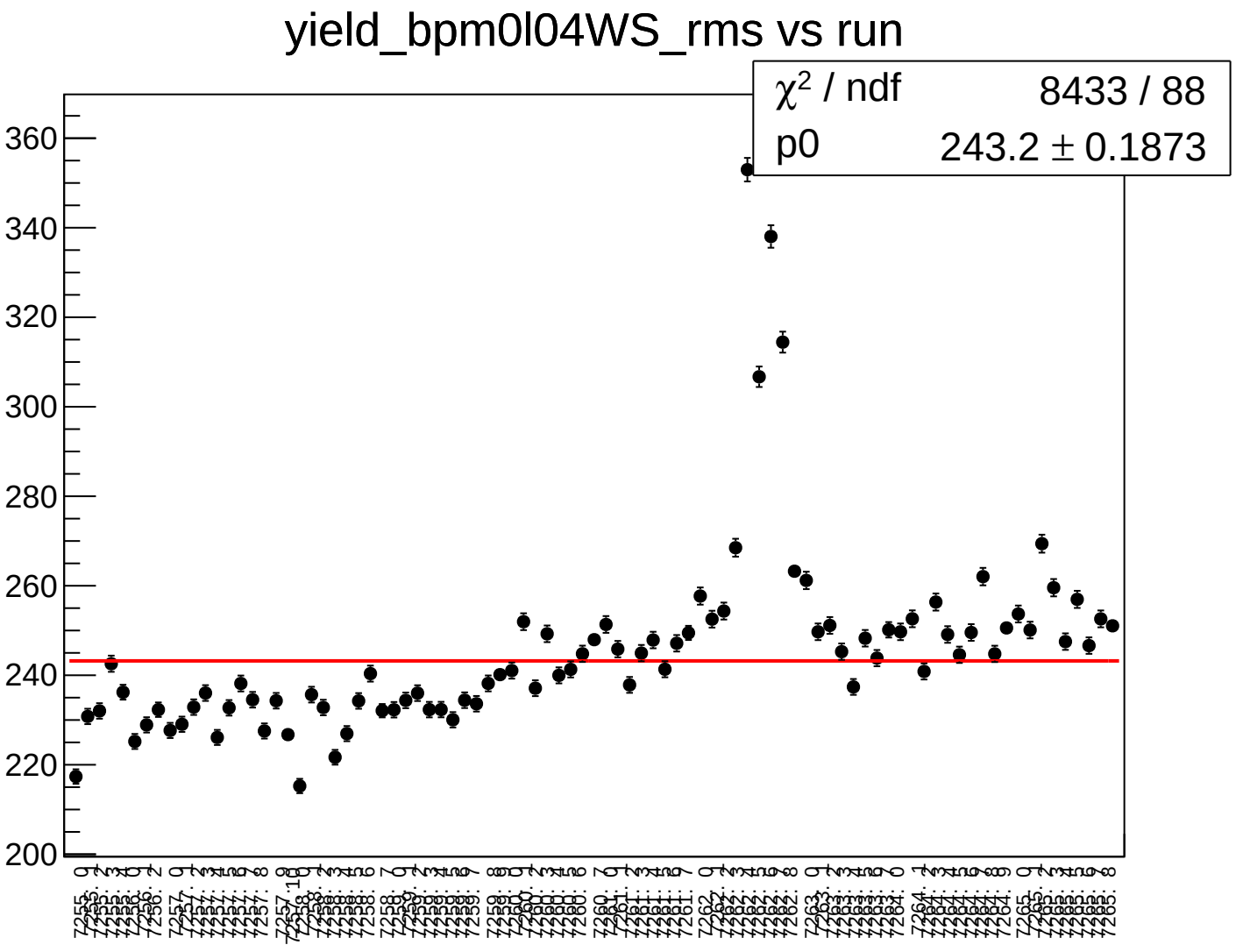

yield_bpm0l02WS_rms vs run
χ² / ndf 6647 / 88
p0 364.6 ± 0.2806
460
440
420
400
380
360
340
320

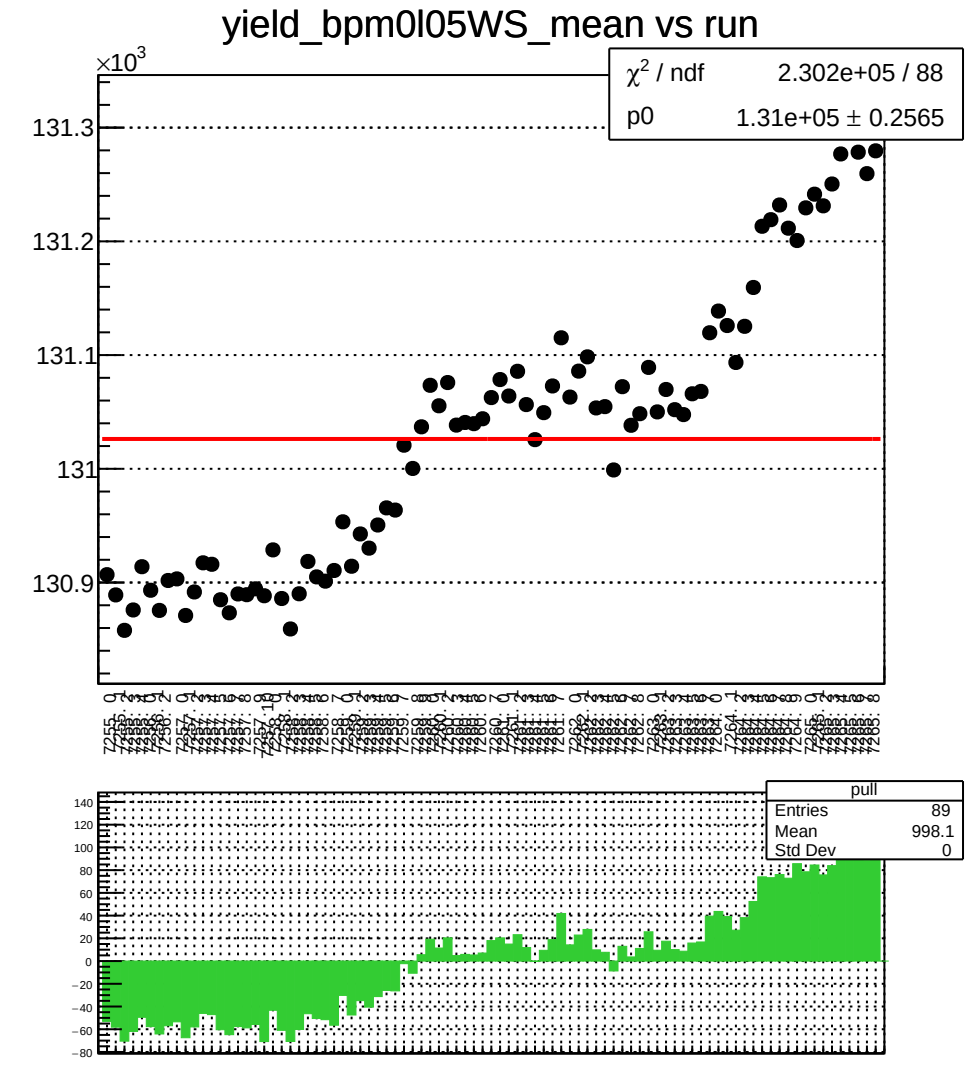

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.096e+05 / 88
p0 1.252e+05 ± 0.7065
125.6
125.4
125.2
125
124.8
124.6
124.4
124.2
124
pull
Entries 89
Mean −107.1
Std Dev 0
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 89
Mean −0.945
Std Dev 4.579
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

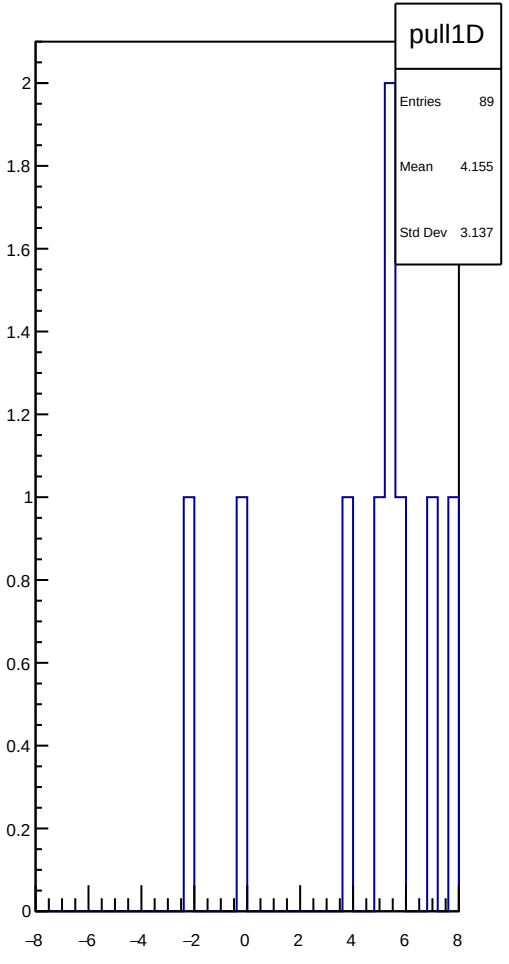

yield_bpm0l03WS_rms vs run
χ^2 / ndf 9.727e+04 / 88
p0 631.5 ± 0.4996
2500
2000
1500
1000
500

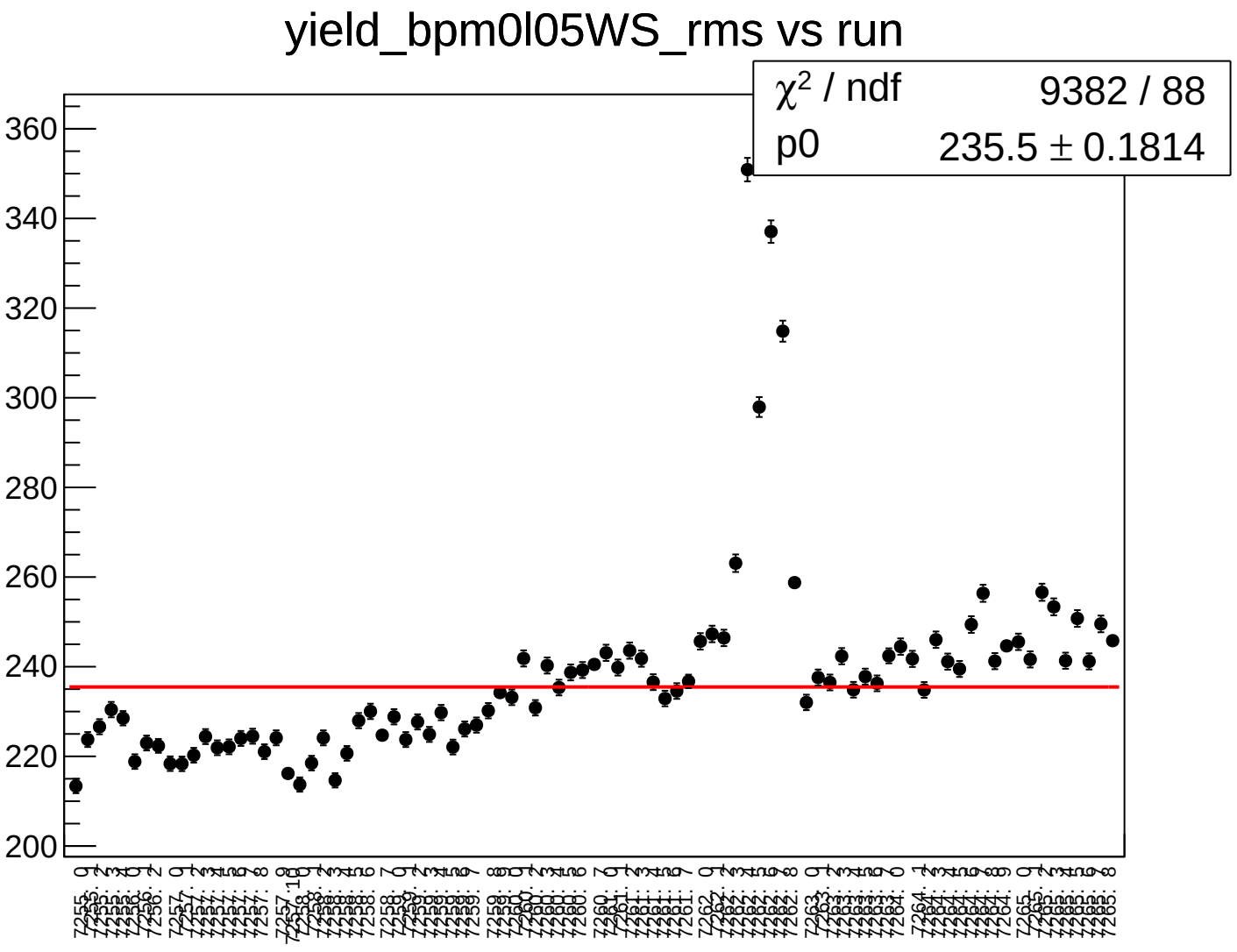

yield_bpm0l04WS_mean vs run
×10^3
130.2
130.1
130
129.9
129.8
129.7
χ² / ndf 1.43e+05 / 88
p0 1.3e+05 ± 0.2648
pull
Entries 89
Mean 822.7
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

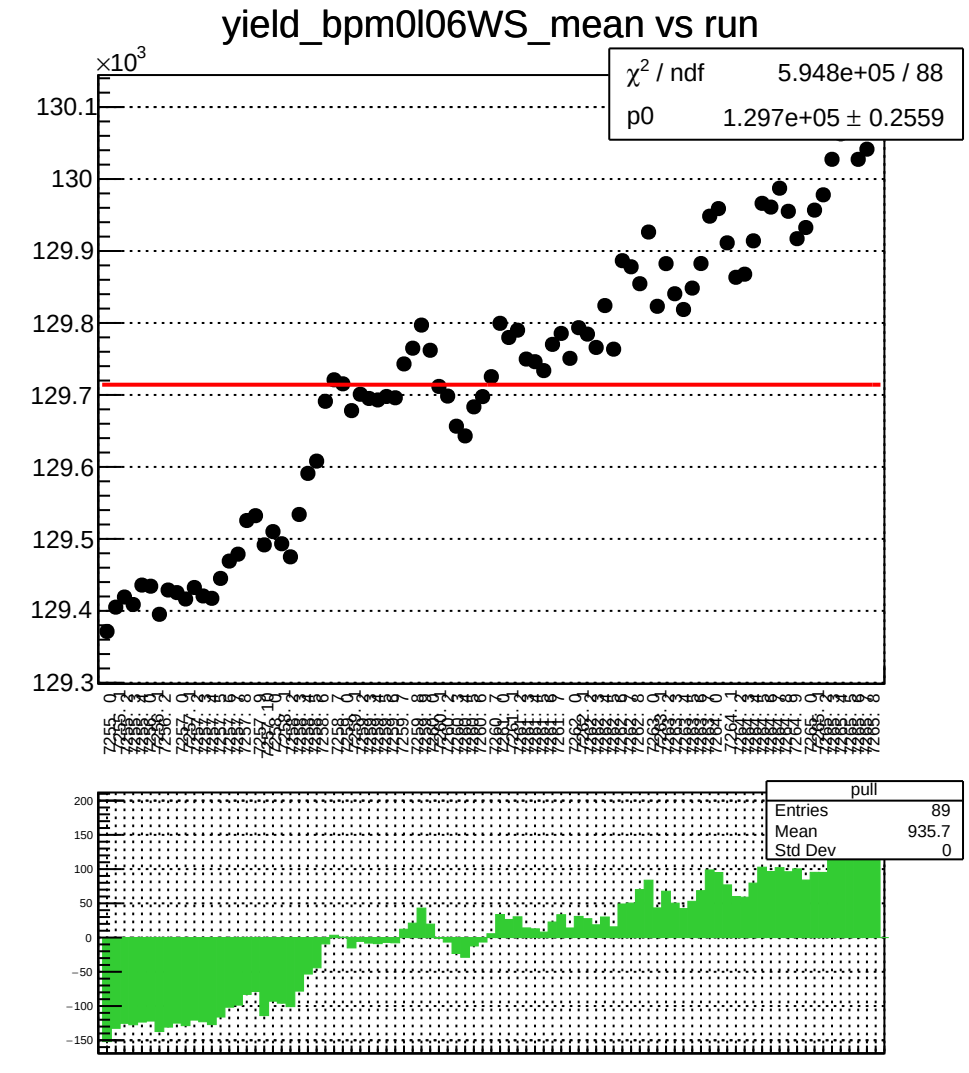

pull1D
Entries 89
Mean −0.2179
Std Dev 5.496
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

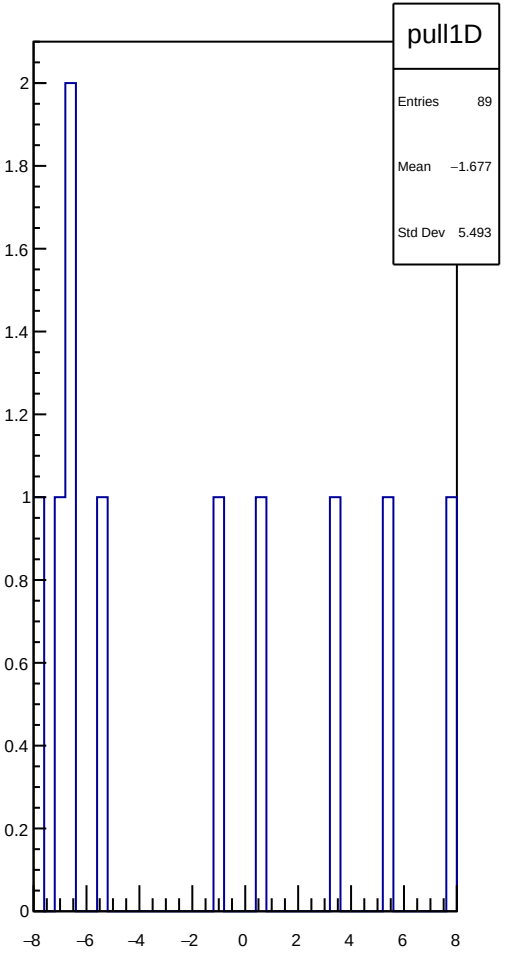

yield_bpm0l04WS_rms vs run
χ² / ndf 8433 / 88
p0 243.2 ± 0.1873
360
340
320
300
280
260
240
220
200

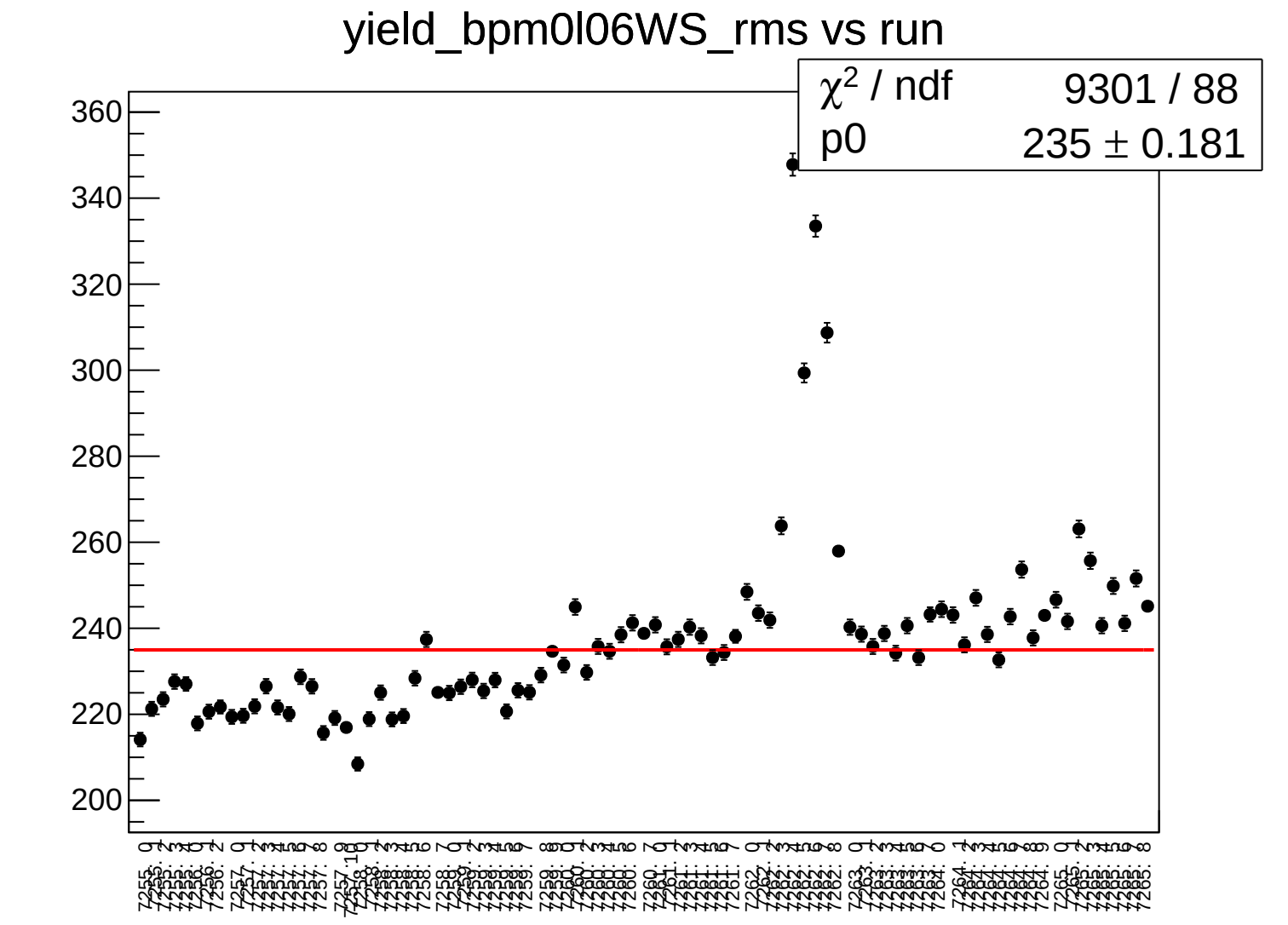

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 2.302e+05 / 88
p0 1.31e+05 ± 0.2565
131.3
131.2
131.1
131
130.9
pull
Entries 89
Mean 998.1
Std Dev 0

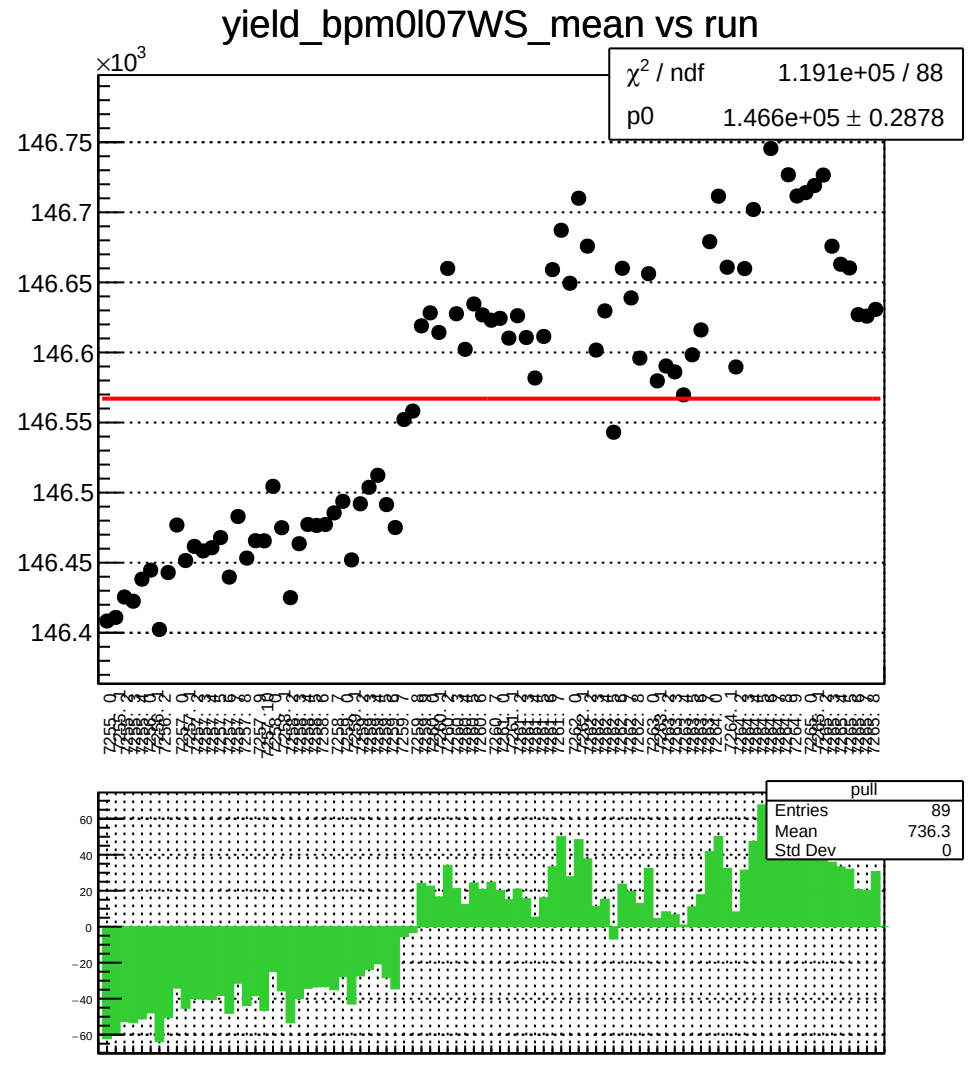

pull1D
Entries 89
Mean 4.155
Std Dev 3.137

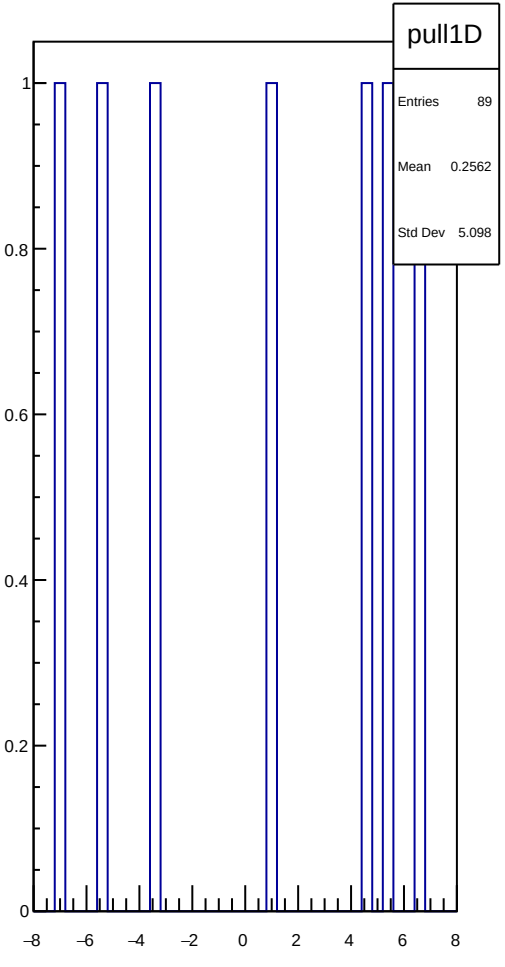

yield_bpm0l05WS_rms vs run
χ^2 / ndf 9382 / 88
p0 235.5 ± 0.1814
360
340
320
300
280
260
240
220
200

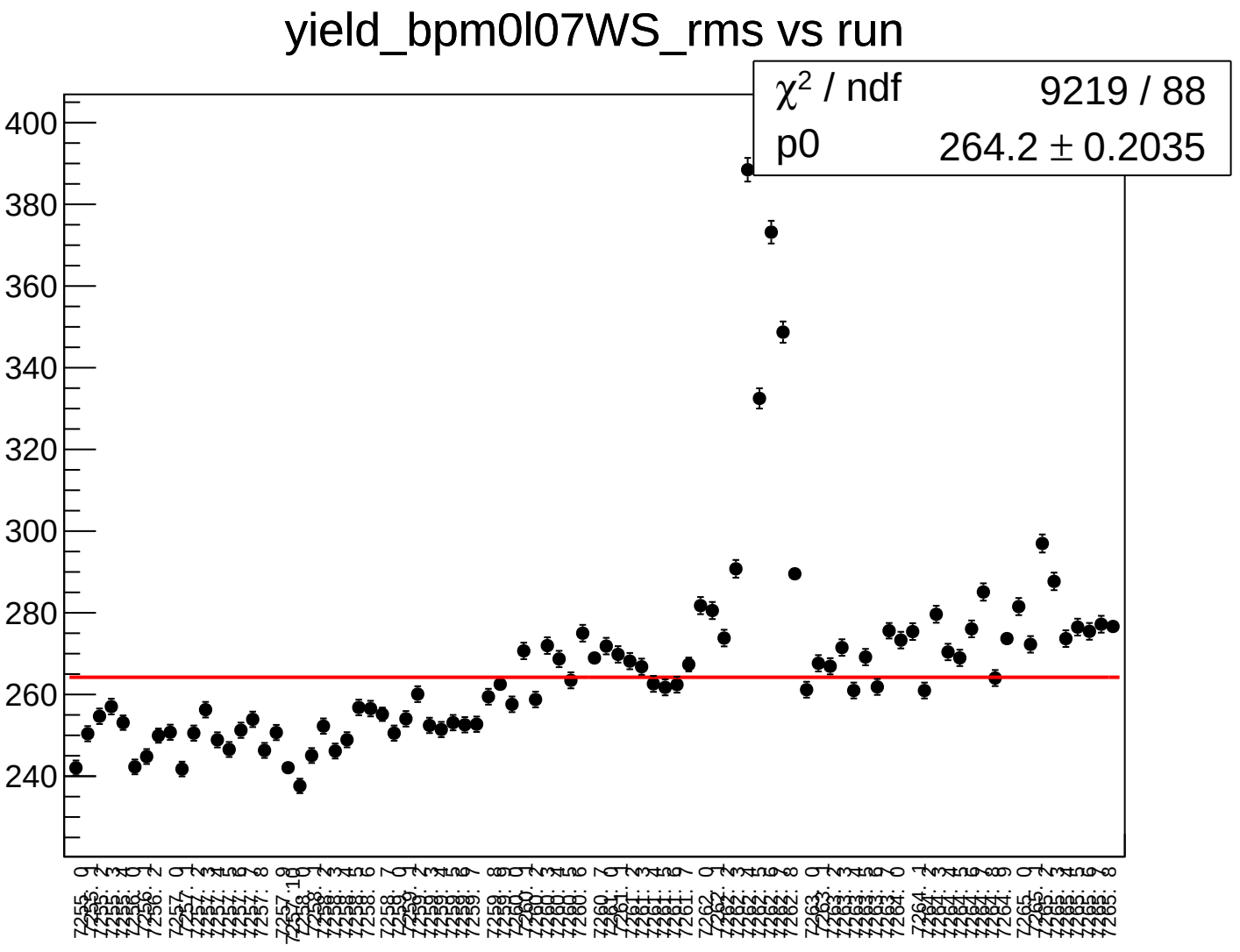

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 5.948e+05 / 88
p0 1.297e+05 ± 0.2559
130.1
130
129.9
129.8
129.7
129.6
129.5
129.4
129.3
pull
Entries 89
Mean 935.7
Std Dev 0
200
150
100
50
0
−50
−100
−150

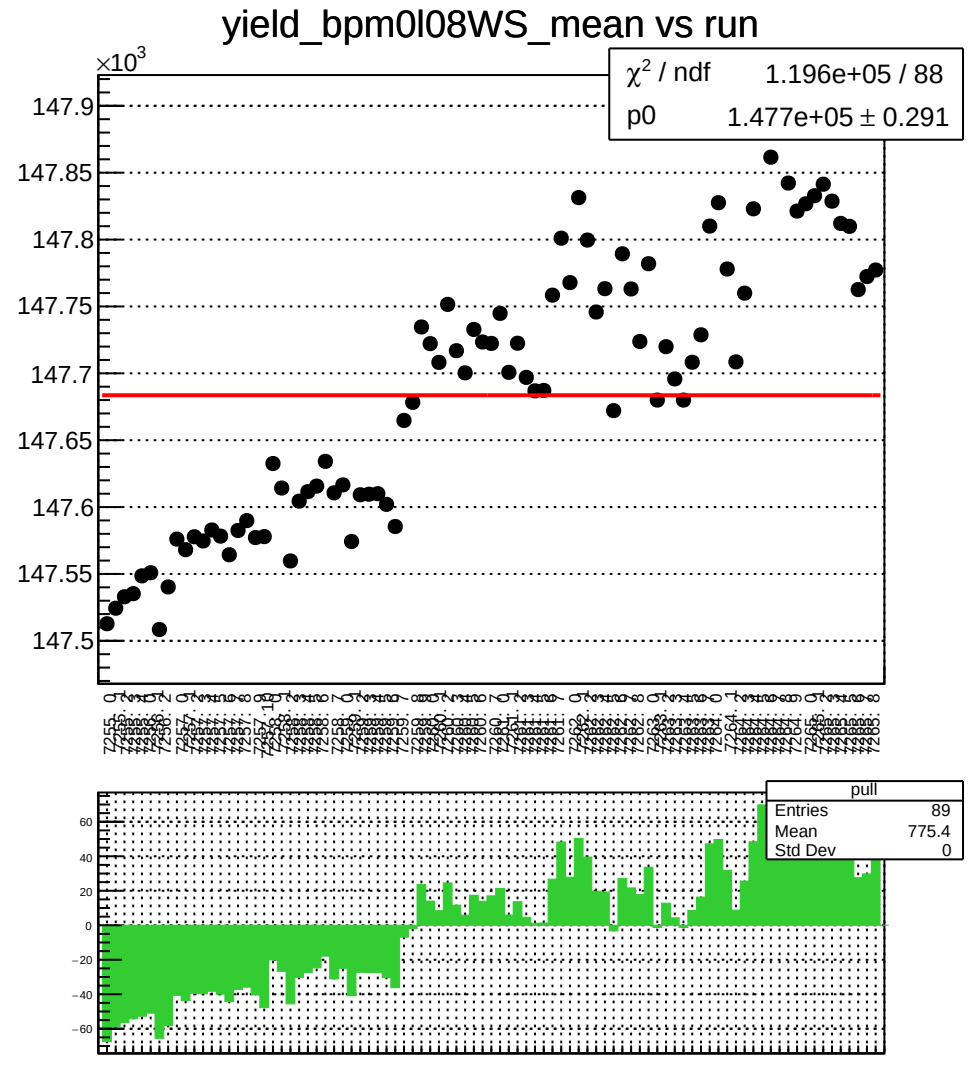

pull1D
Entries 89
Mean −1.677
Std Dev 5.493
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

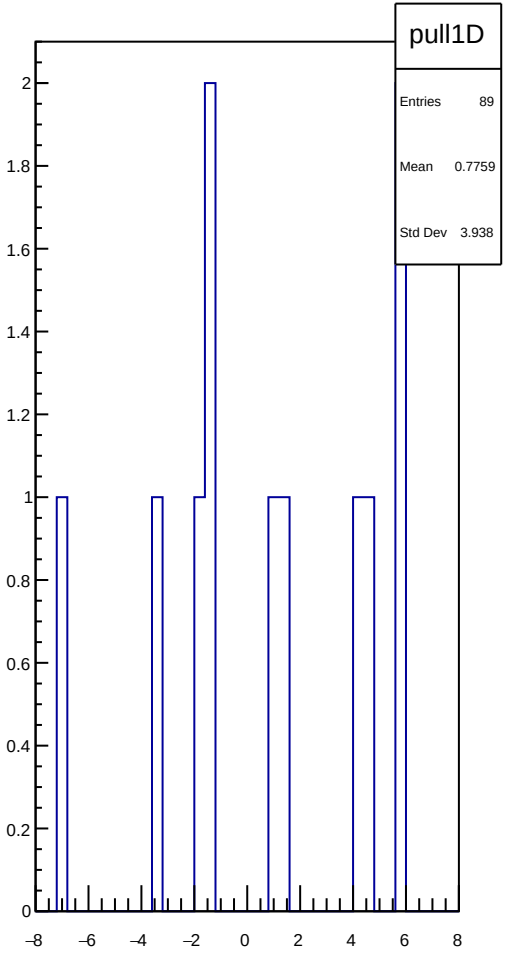

yield_bpm0l06WS_rms vs run
χ^2 / ndf 9301 / 88
p0 235 ± 0.181
360
340
320
300
280
260
240
220
200

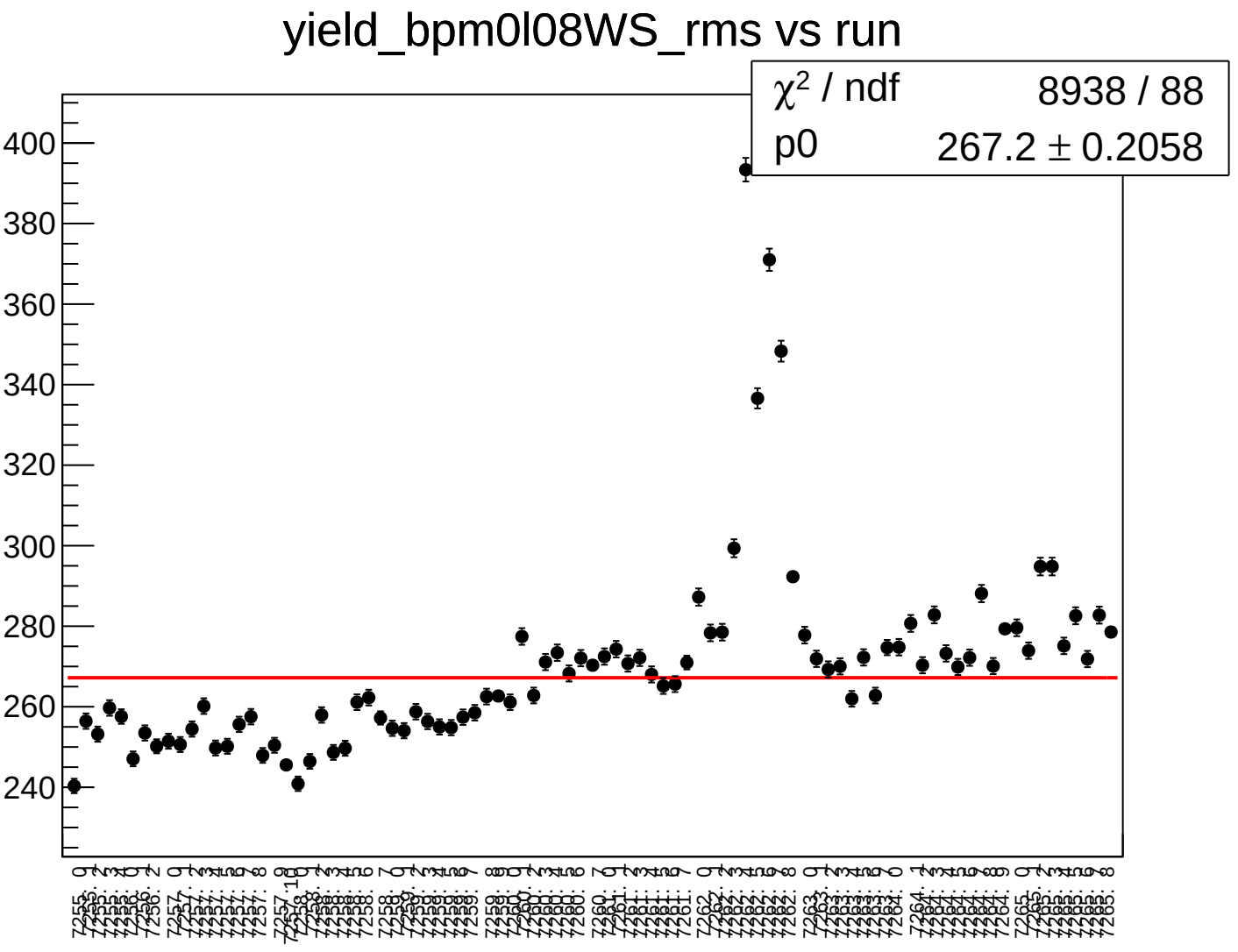

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 1.191e+05 / 88
p0 1.466e+05 ± 0.2878
146.75
146.7
146.65
146.6
146.55
146.5
146.45
146.4
pull
Entries 89
Mean 736.3
Std Dev 0
60
40
20
0
−20
−40
−60

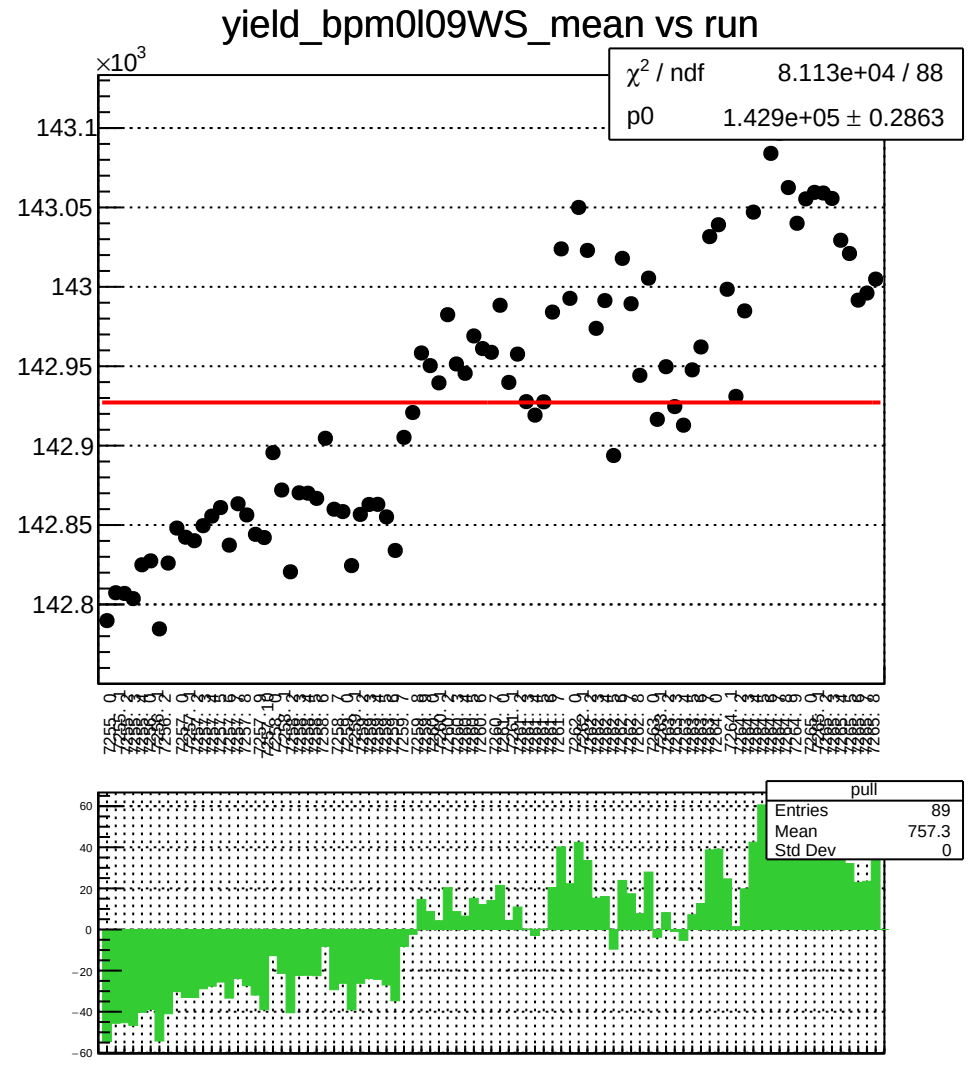

pull1D
Entries 89
Mean 0.2562
Std Dev 5.098
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

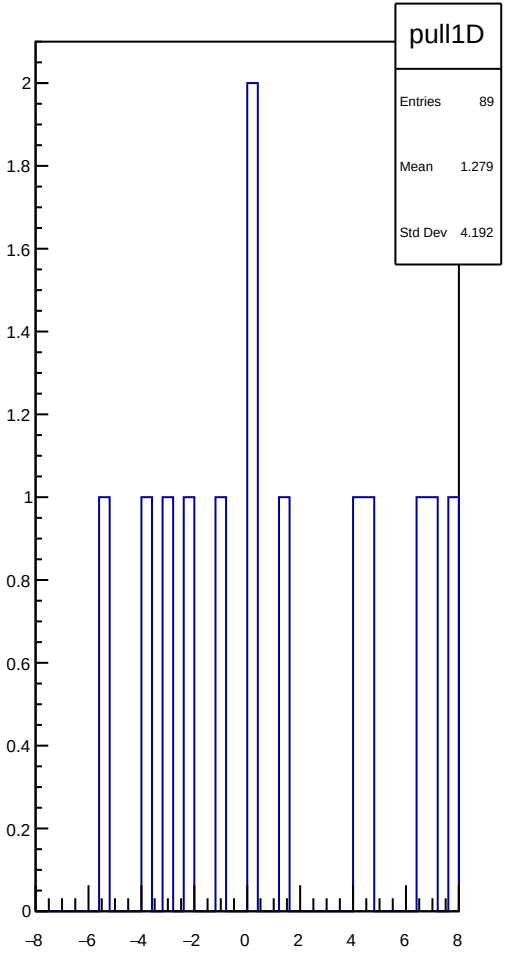

yield_bpm0l07WS_rms vs run
χ² / ndf 9219 / 88
p0 264.2 ± 0.2035
400
380
360
340
320
300
280
260
240

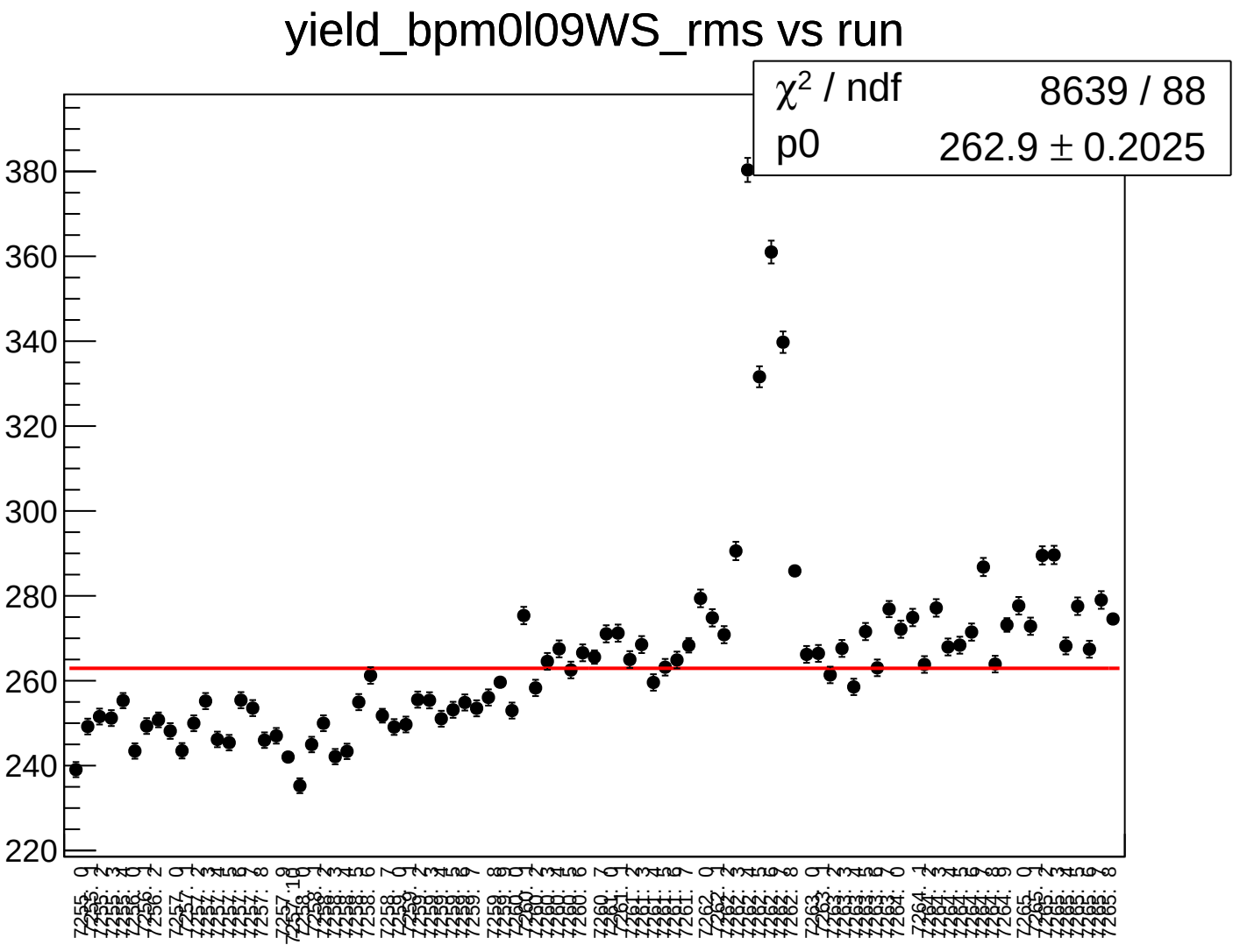

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 1.196e+05 / 88
p0 1.477e+05 ± 0.291
147.9
147.85
147.8
147.75
147.7
147.65
147.6
147.55
147.5
pull
Entries 89
Mean 775.4
Std Dev 0
60
40
20
0
−20
−40
−60

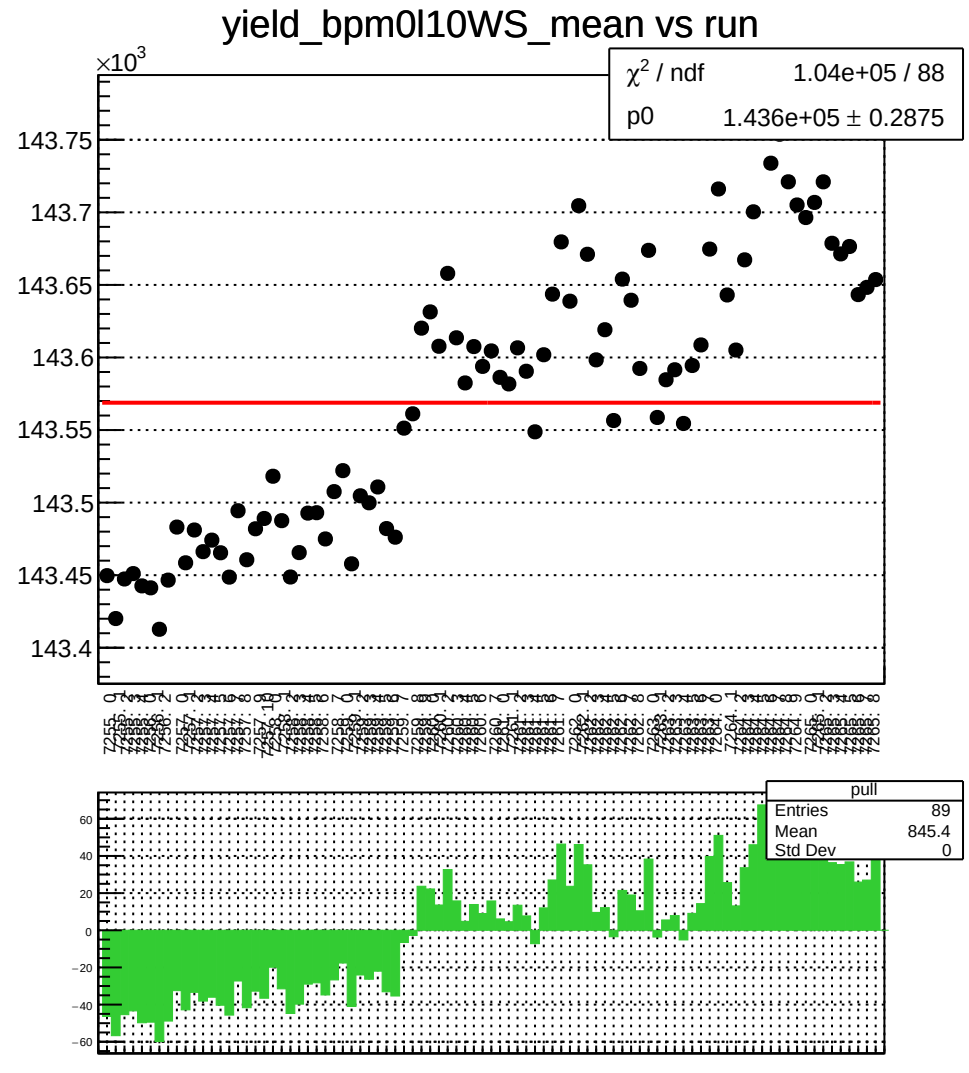

pull1D
Entries 89
Mean 0.7759
Std Dev 3.938
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

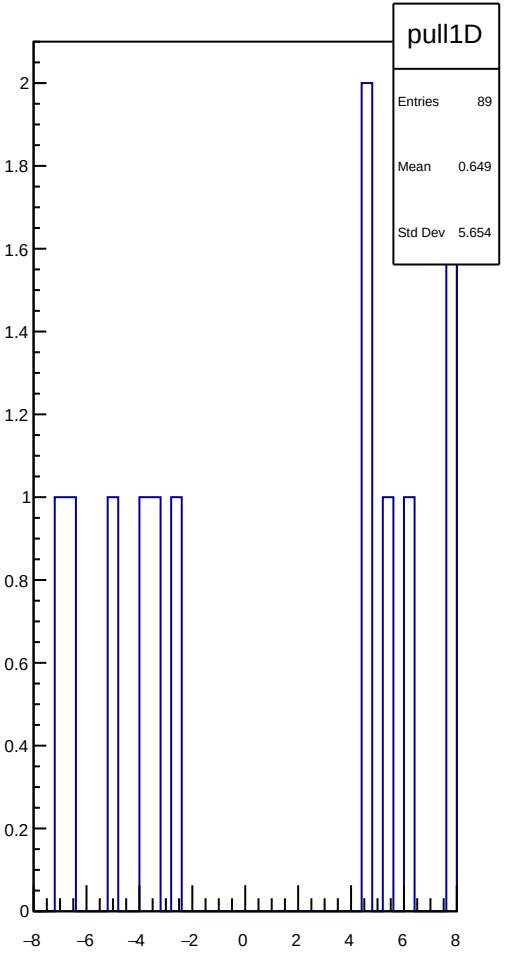

yield_bpm0l08WS_rms vs run
χ² / ndf 8938 / 88
p0 267.2 ± 0.2058
400
380
360
340
320
300
280
260
240

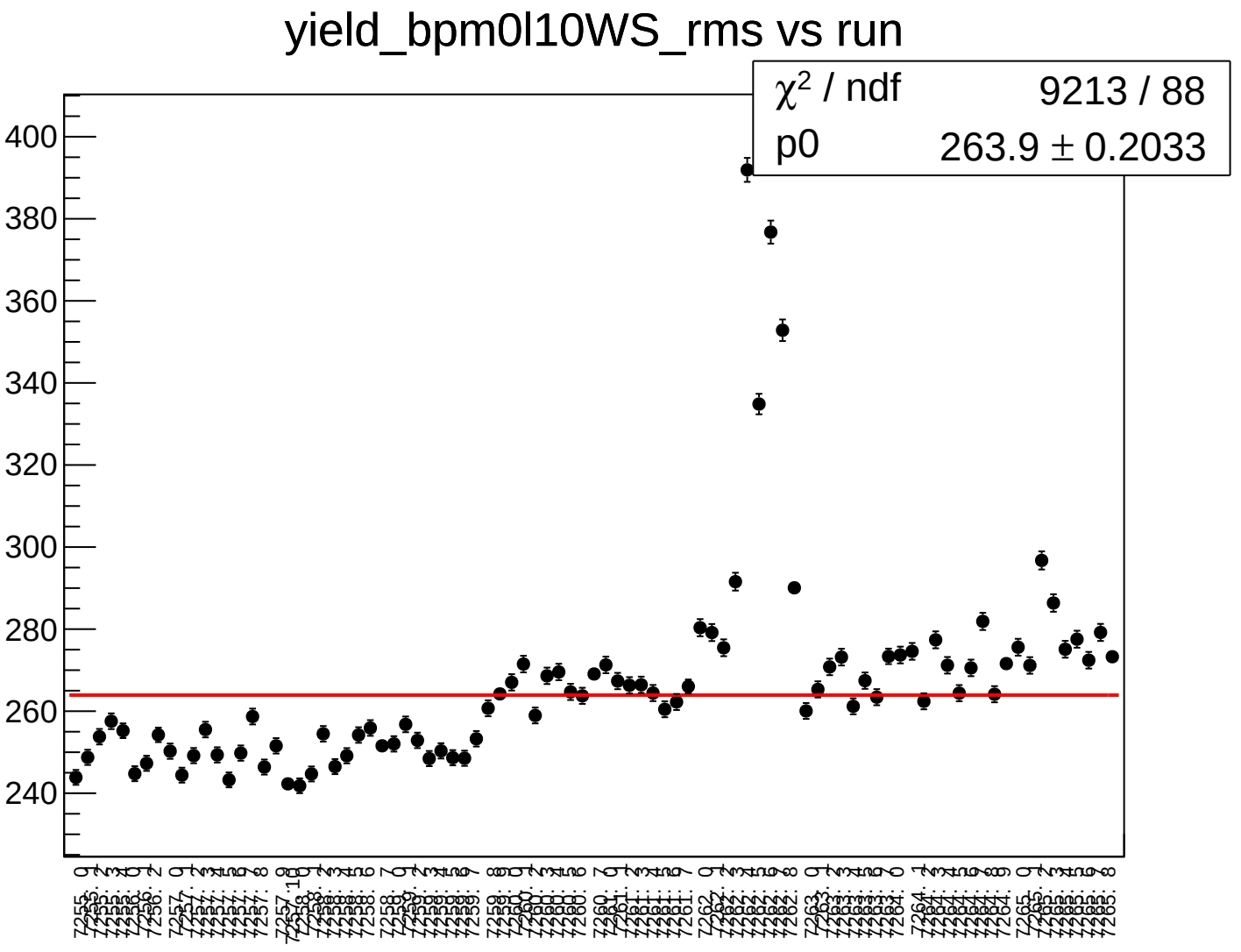

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 8.113e+04 / 88
p0 1.429e+05 ± 0.2863
143.1
143.05
143
142.95
142.9
142.85
142.8
pull
Entries 89
Mean 757.3
Std Dev 0
60
40
20
0
−20
−40
−60

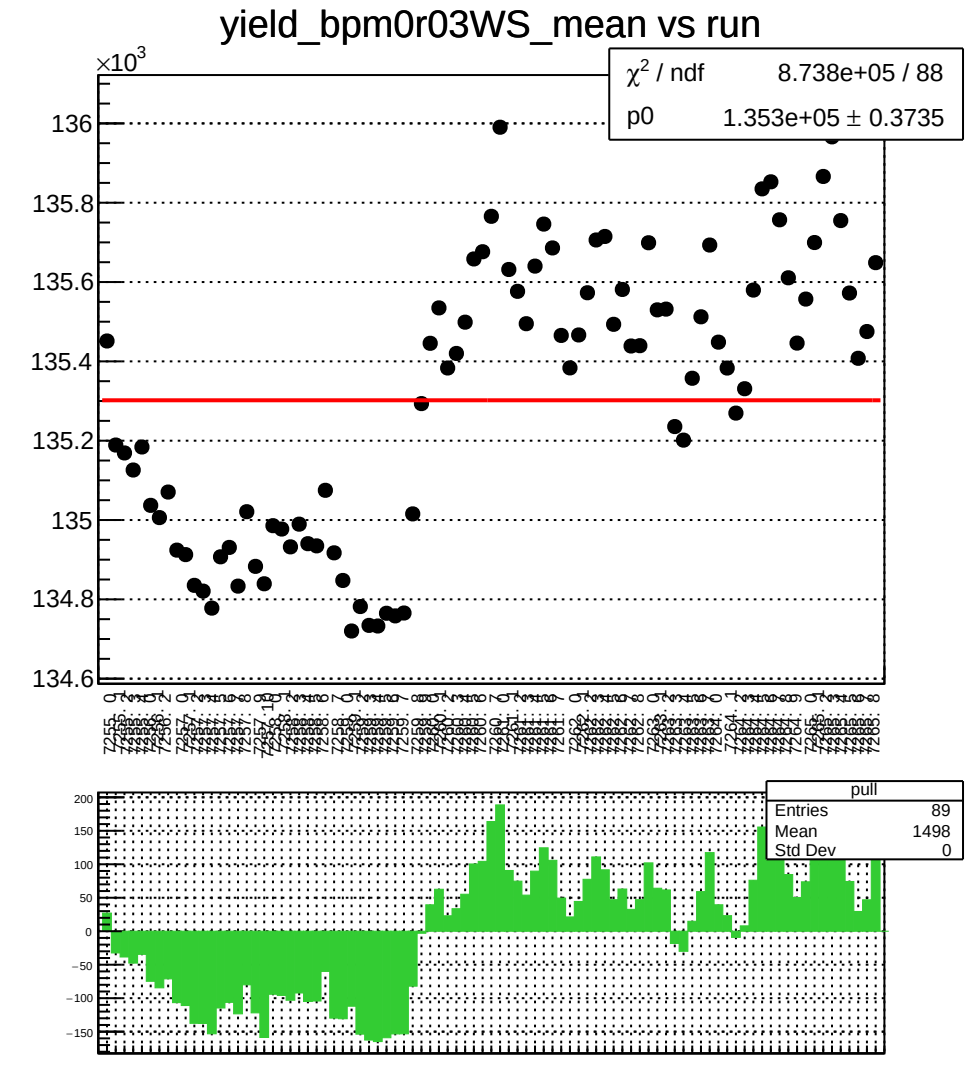

pull1D
Entries 89
Mean 1.279
Std Dev 4.192
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

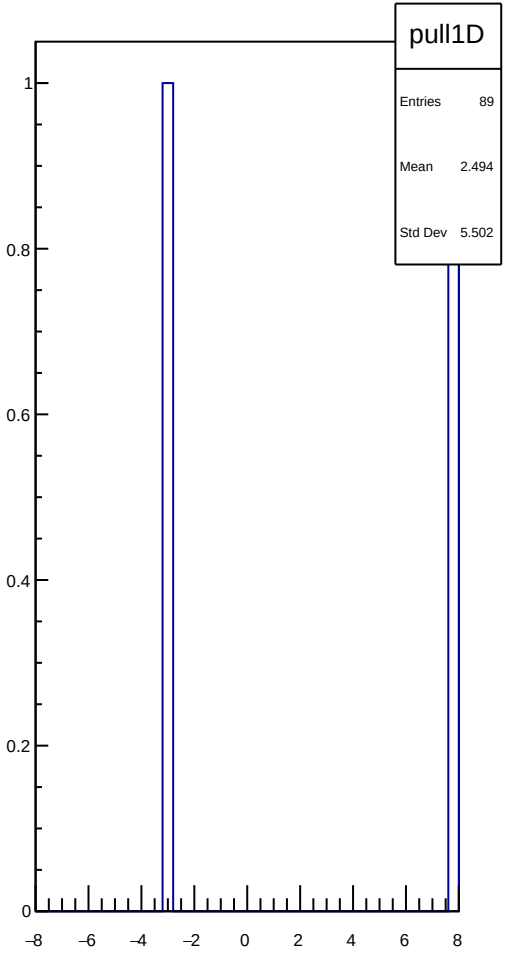

yield_bpm0l09WS_rms vs run
χ² / ndf 8639 / 88
p0 262.9 ± 0.2025
380
360
340
320
300
280
260
240
220

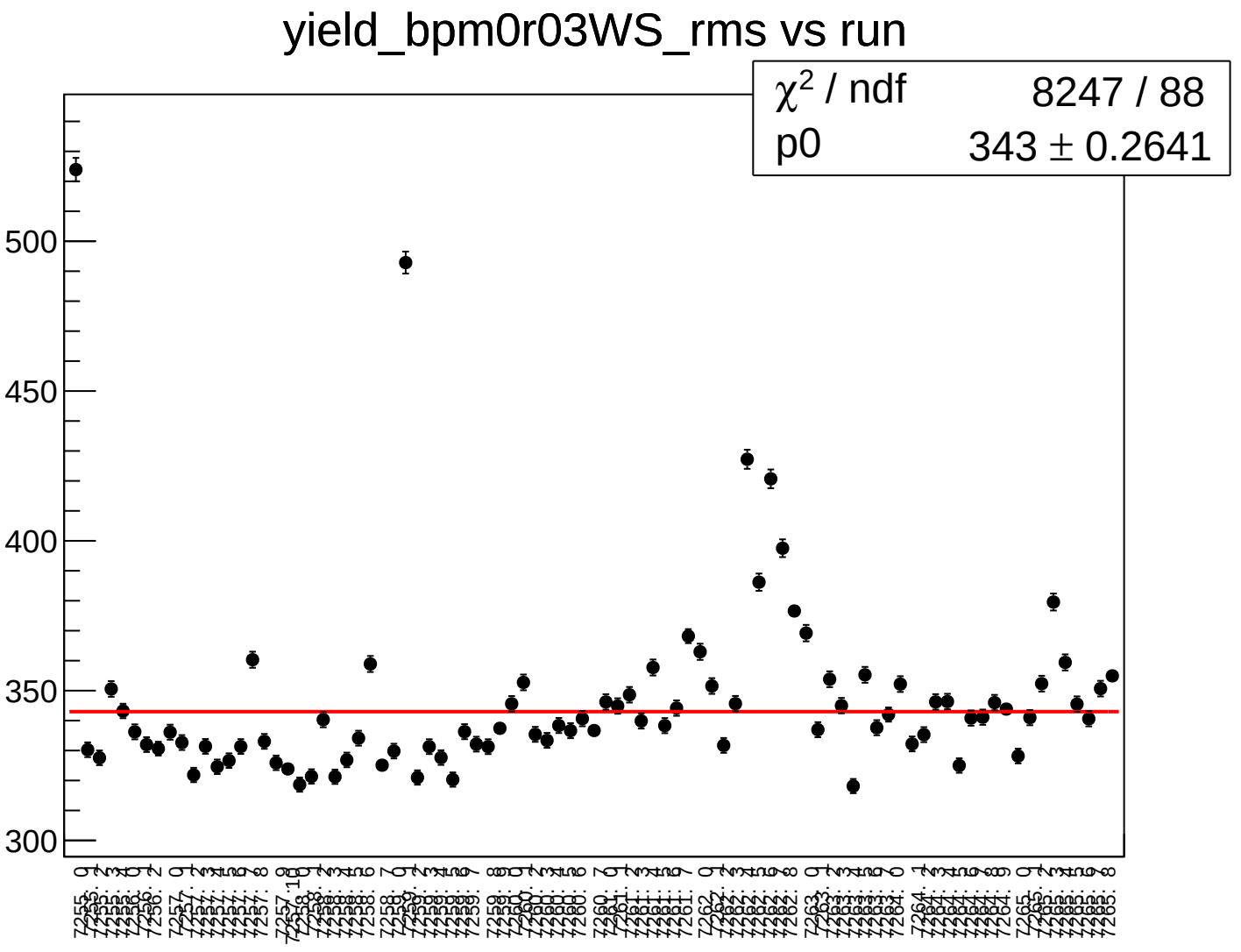

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.04e+05 / 88
p0 1.436e+05 ± 0.2875
143.75
143.7
143.65
143.6
143.55
143.5
143.45
143.4
pull
Entries 89
Mean 845.4
Std Dev 0
60
40
20
0
−20
−40
−60

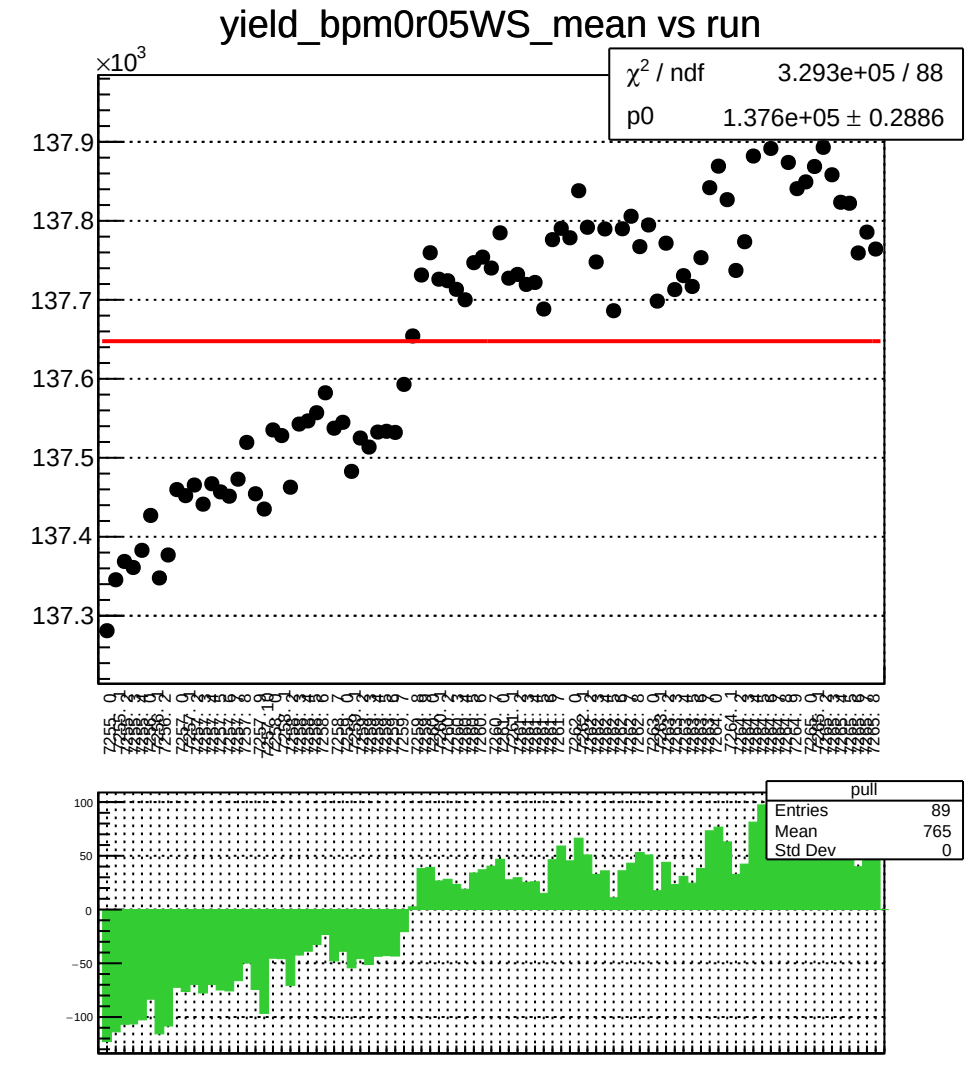

pull1D
Entries 89
Mean 0.649
Std Dev 5.654
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

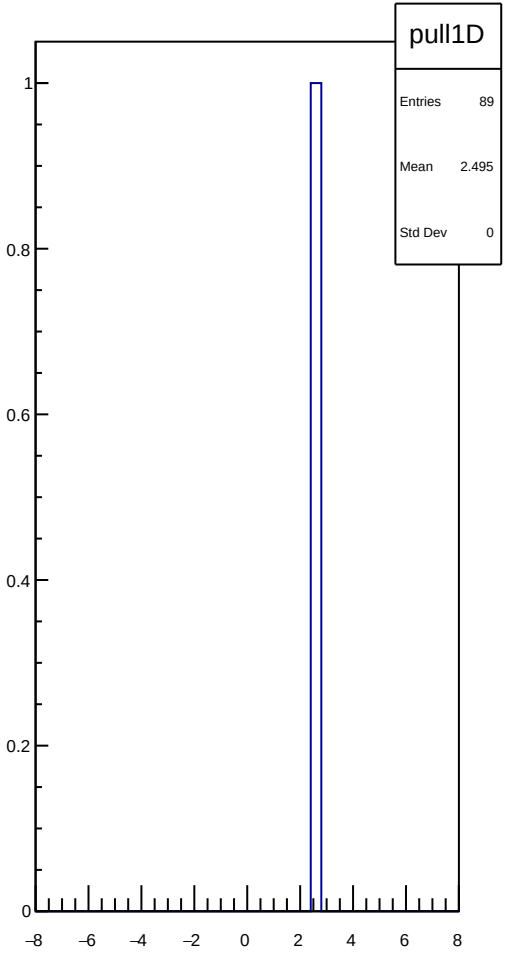

yield_bpm0l10WS_rms vs run
χ² / ndf 9213 / 88
p0 263.9 ± 0.2033
400
380
360
340
320
300
280
260
240

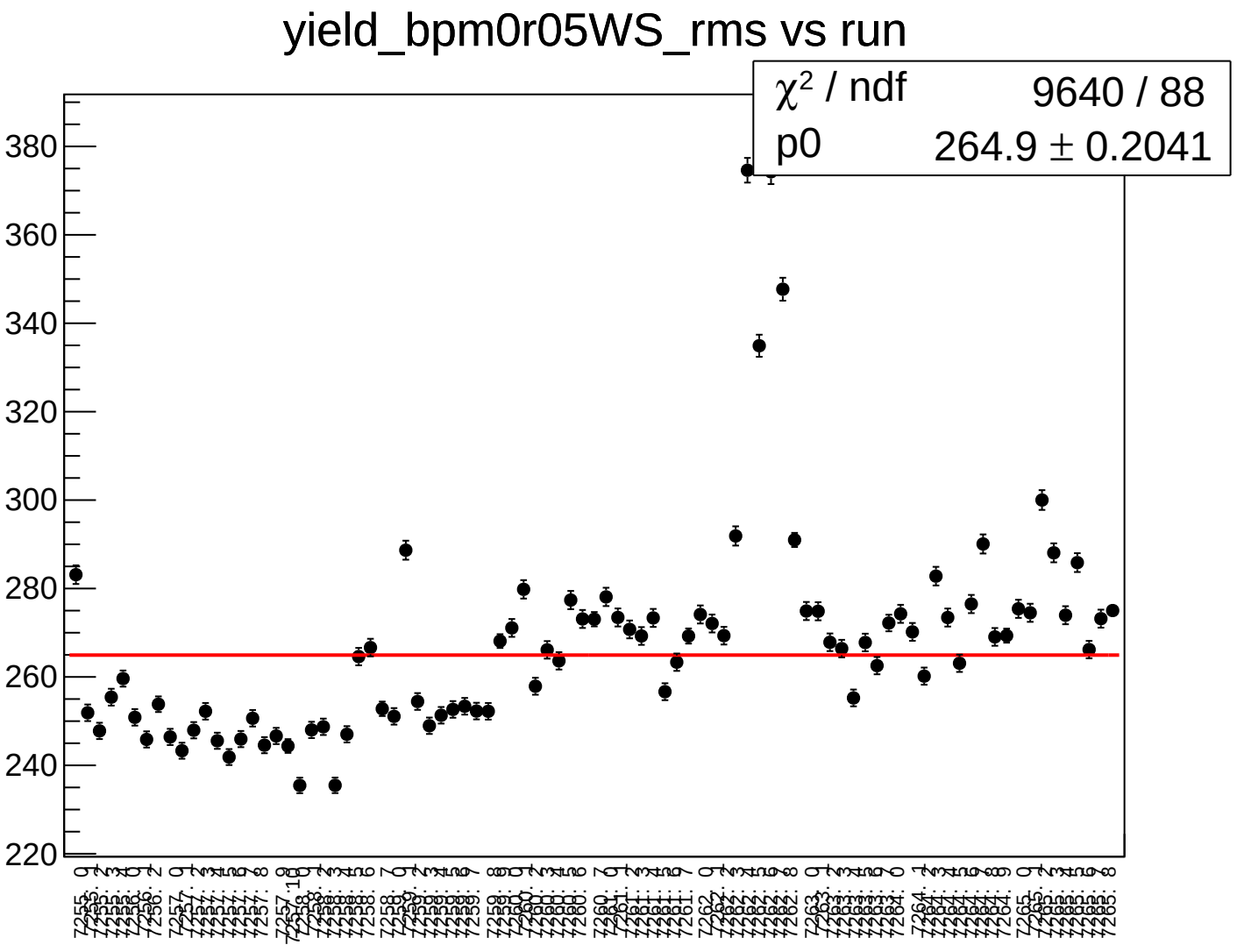

yield_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 8.738e+05 / 88
p0 1.353e+05 ± 0.3735
136
135.8
135.6
135.4
135.2
135
134.8
134.6
pull
Entries 89
Mean 1498
Std Dev 0
200
150
100
50
0
−50
−100
−150

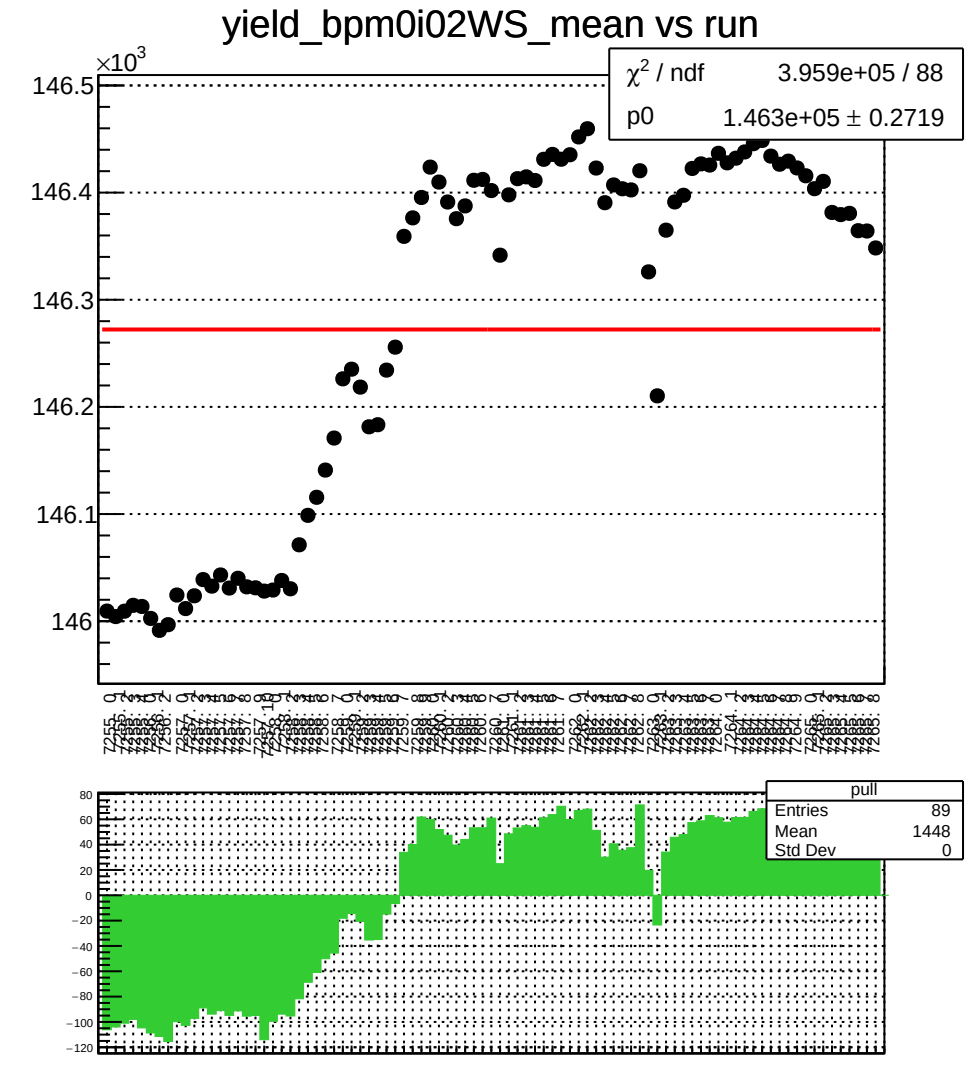

pull1D
Entries 89
Mean 2.494
Std Dev 5.502
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

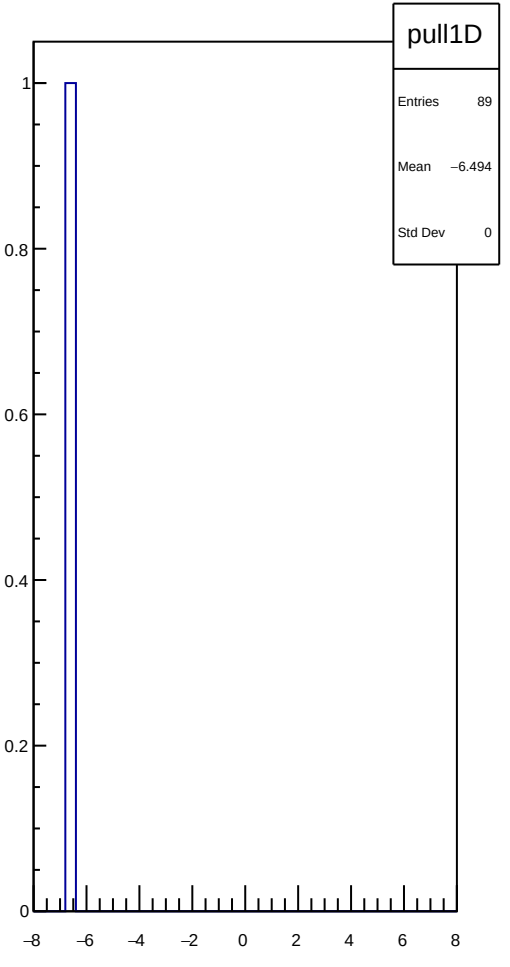

yield_bpm0r03WS_rms vs run
χ² / ndf 8247 / 88
p0 343 ± 0.2641
500
450
400
350
300

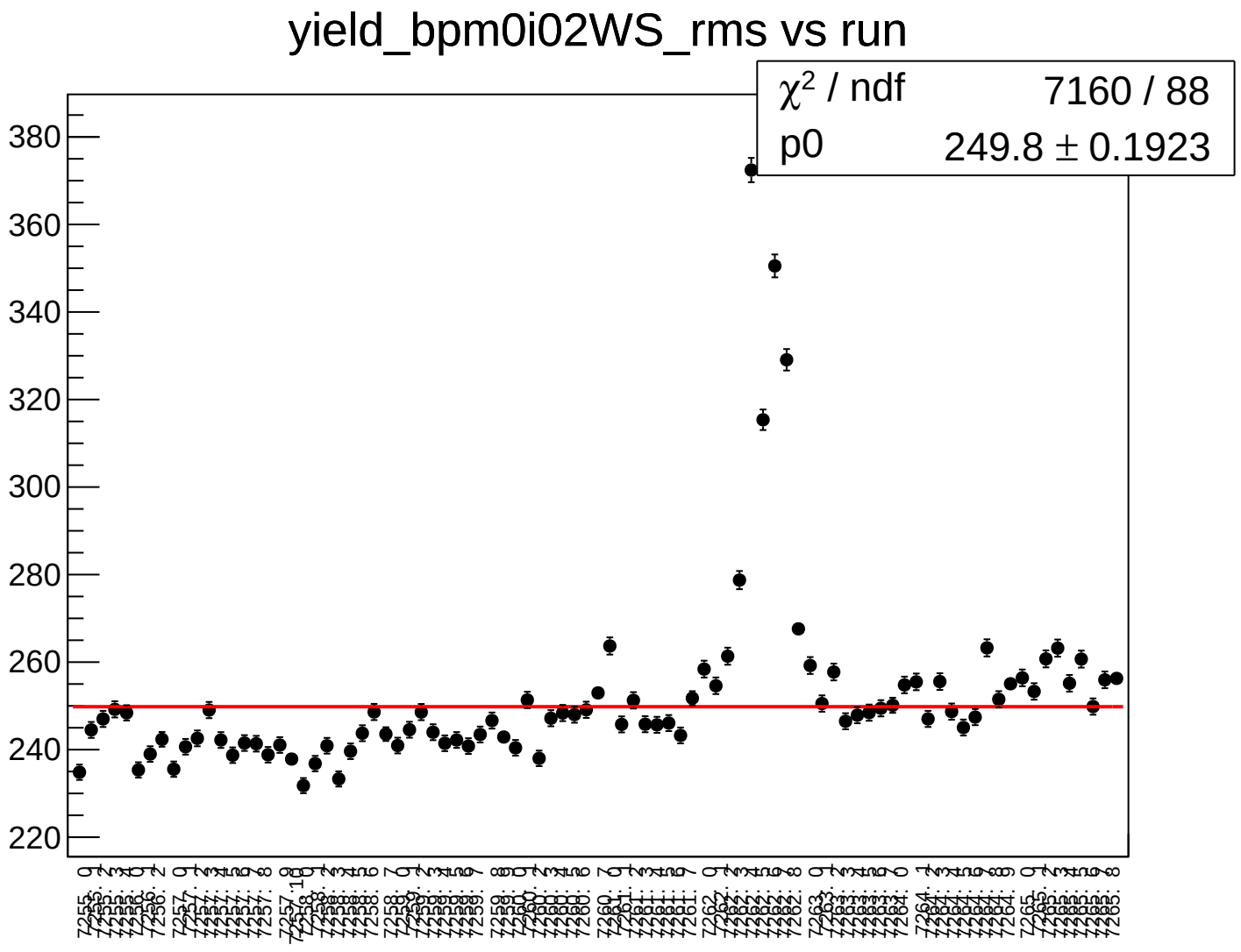

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 3.293e+05 / 88
p0 1.376e+05 ± 0.2886
137.9
137.8
137.7
137.6
137.5
137.4
137.3
pull
Entries 89
Mean 765
Std Dev 0
100
50
0
−50
−100

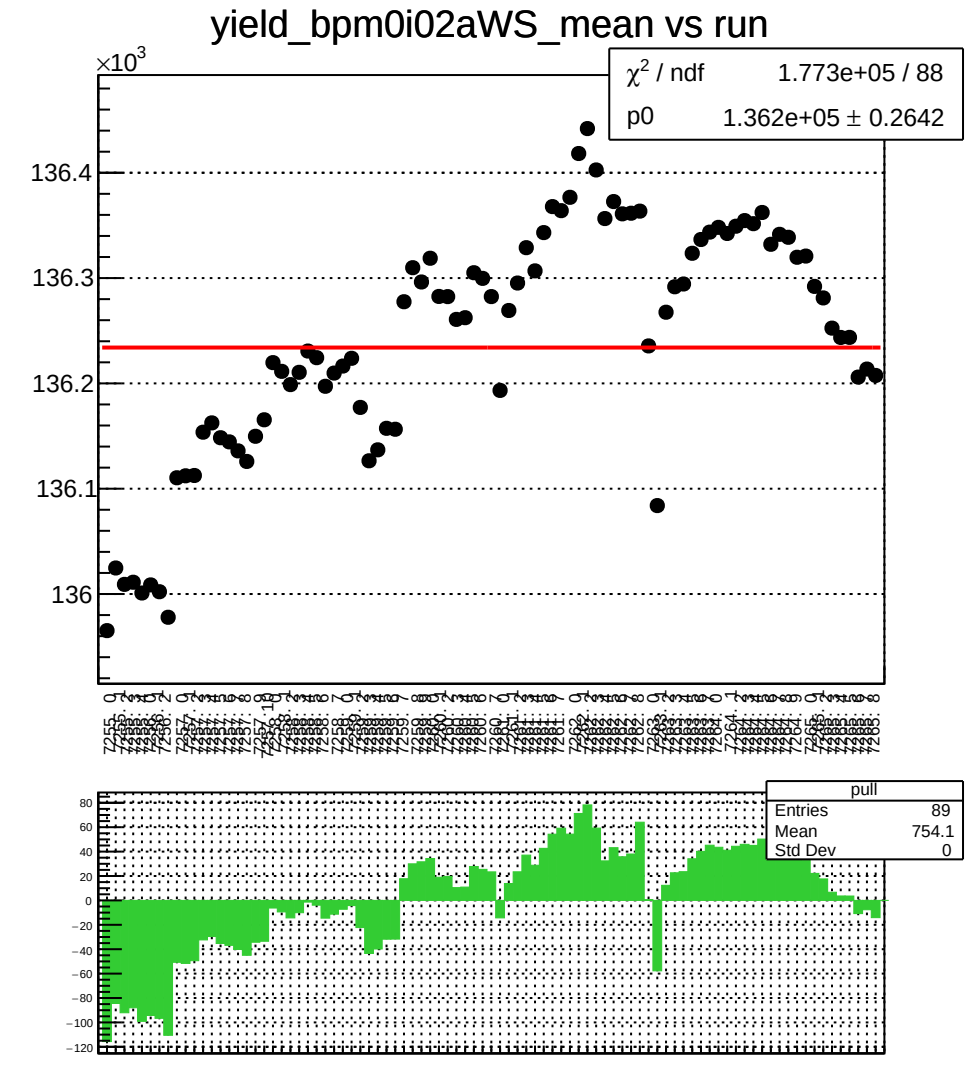

pull1D
Entries 89
Mean 2.495
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

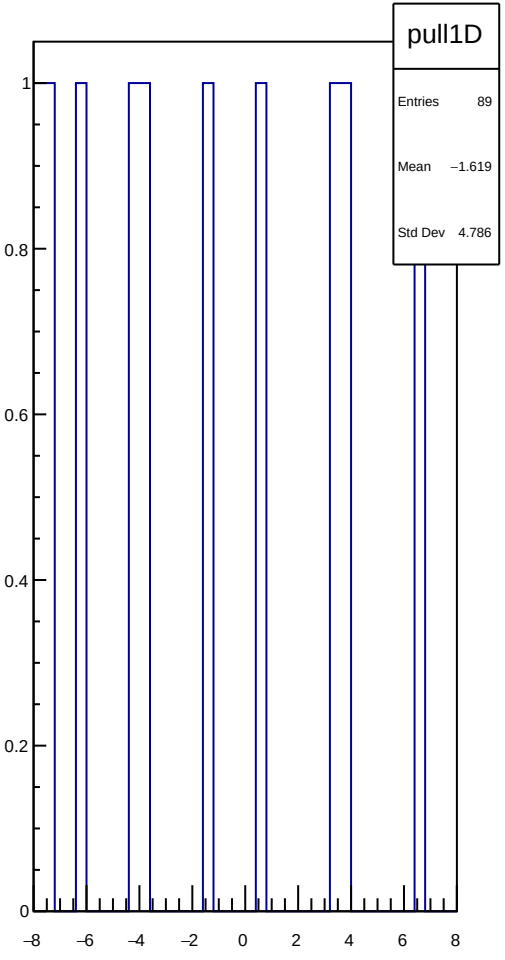

yield_bpm0r05WS_rms vs run
χ² / ndf 9640 / 88
p0 264.9 ± 0.2041
380
360
340
320
300
280
260
240
220

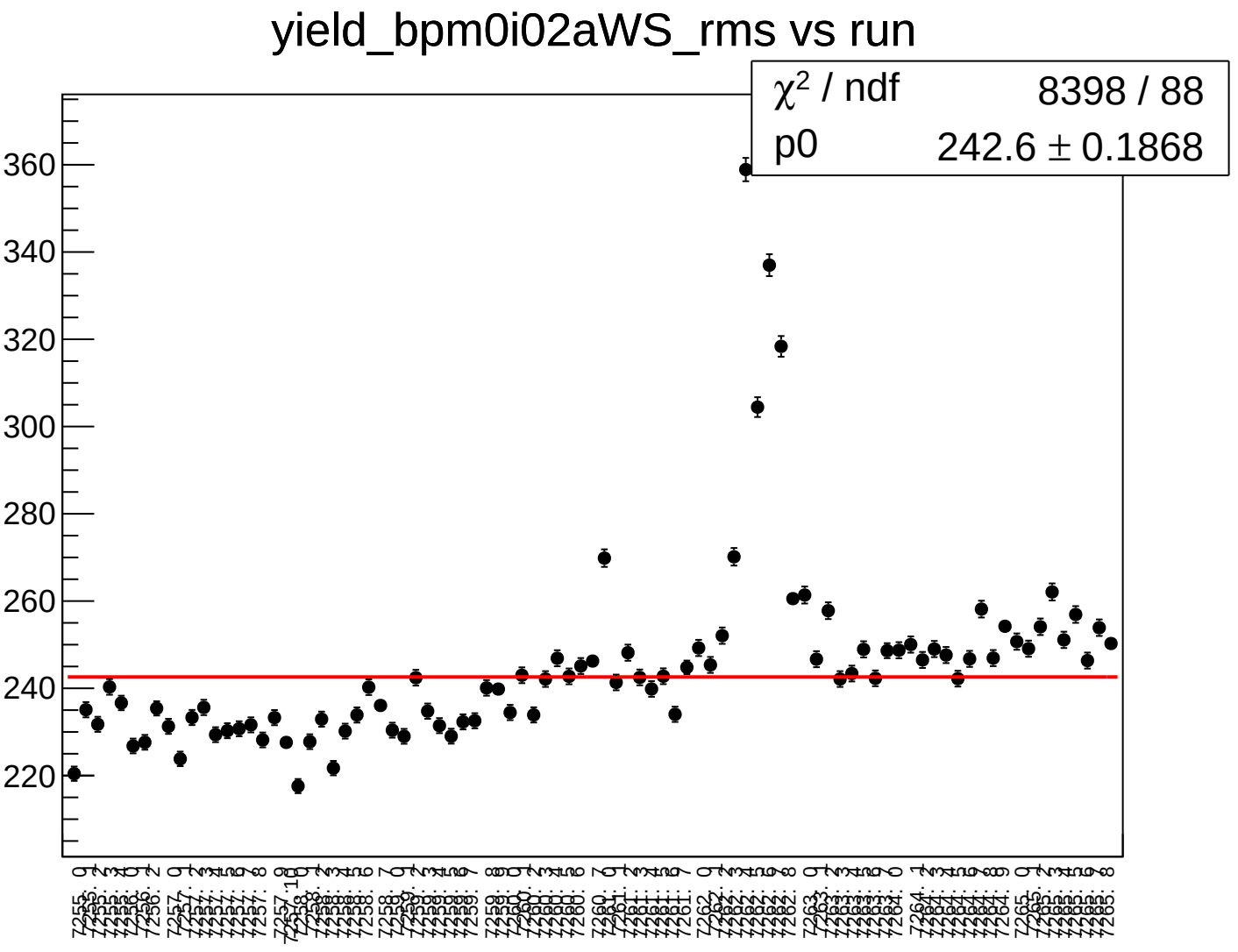

yield_bpm0i02WS_mean vs run
×10^3
146.5
146.4
146.3
146.2
146.1
146
χ² / ndf 3.959e+05 / 88
p0 1.463e+05 ± 0.2719
pull
Entries 89
Mean 1448
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

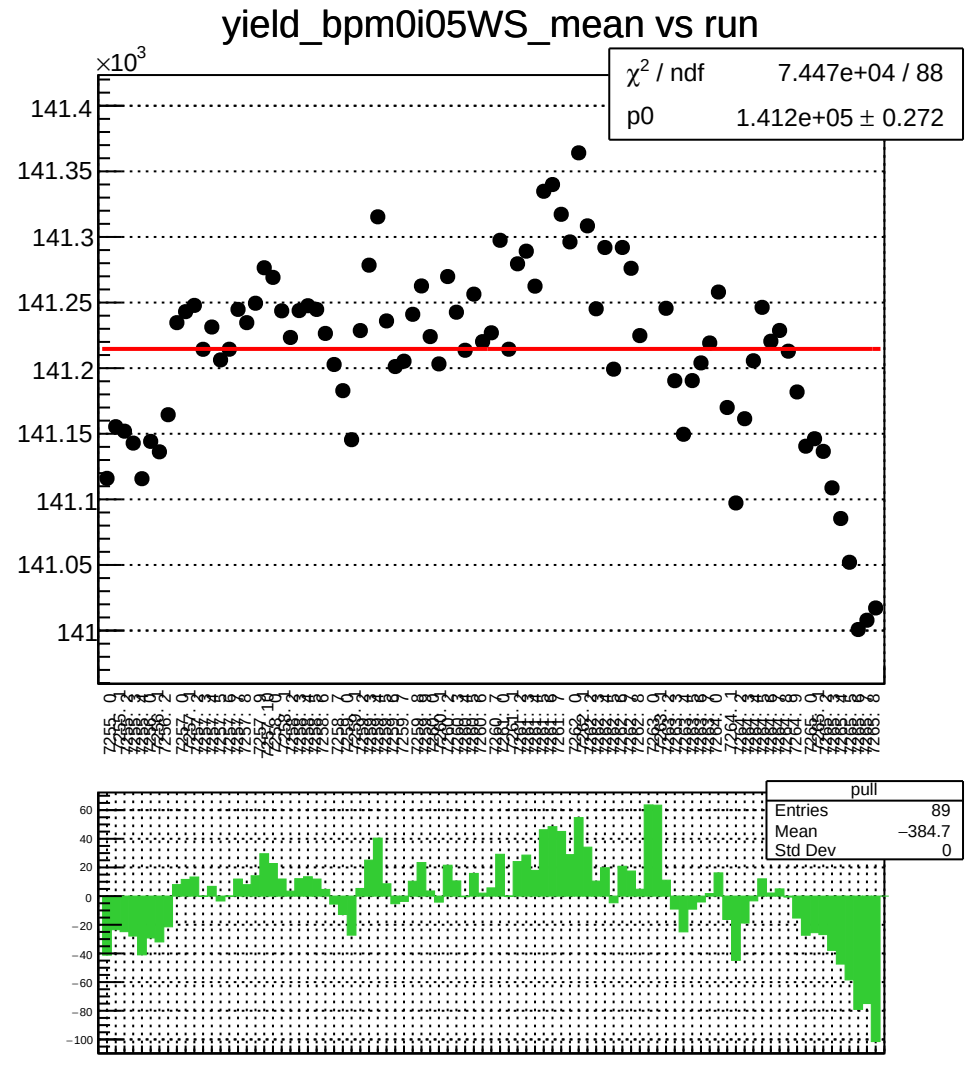

pull1D
Entries 89
Mean −6.494
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

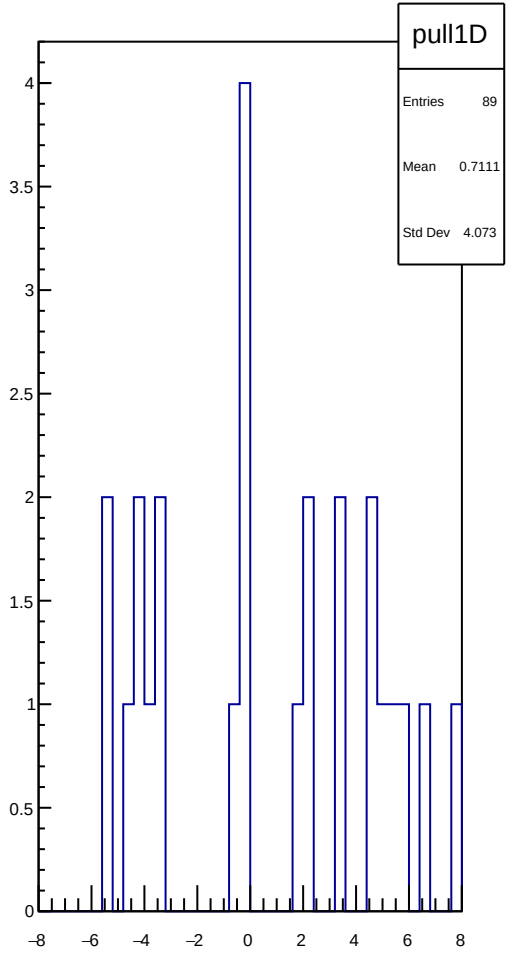

yield_bpm0i02WS_rms vs run
χ² / ndf 7160 / 88
p0 249.8 ± 0.1923
380
360
340
320
300
280
260
240
220

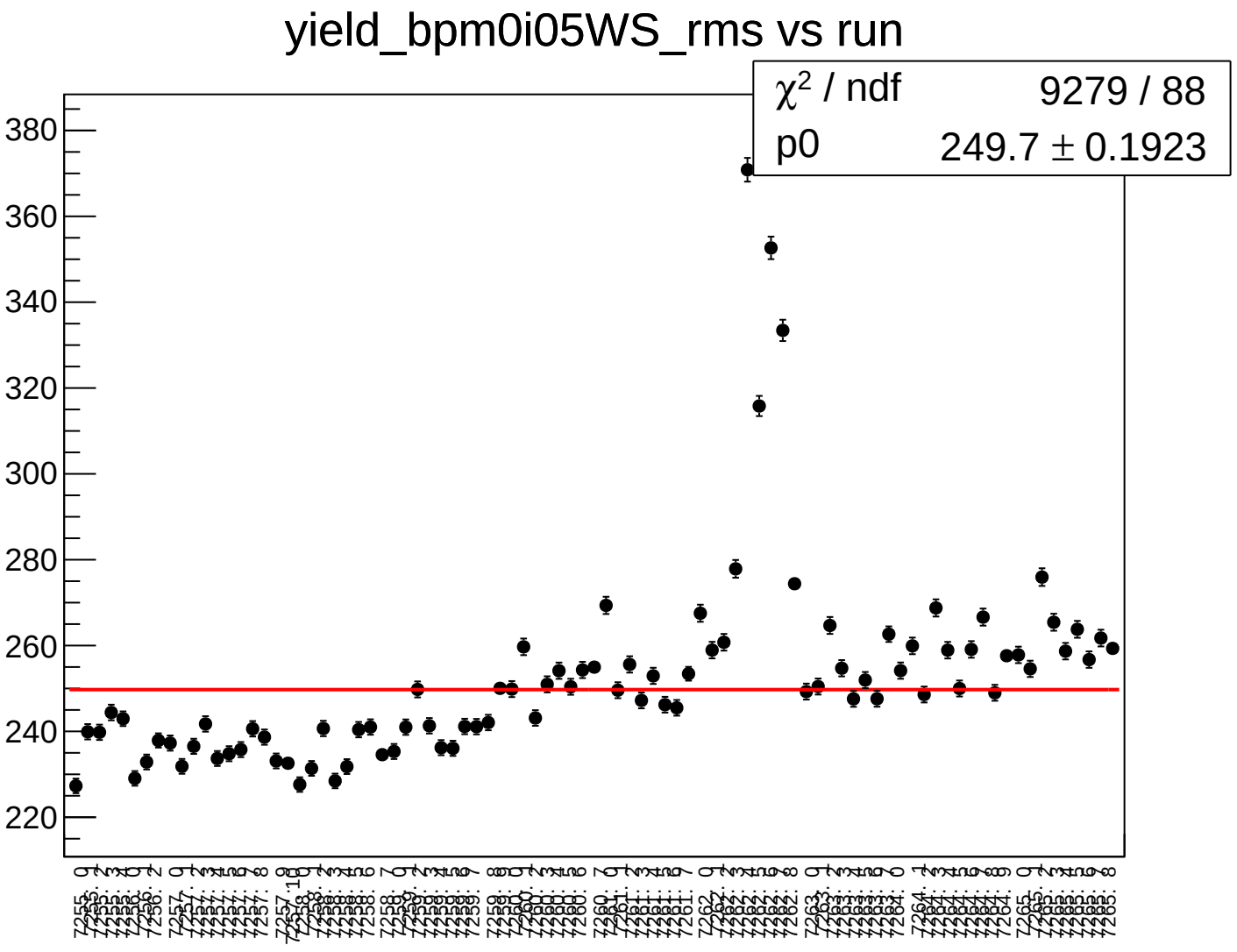

yield_bpm0i02aWS_mean vs run
×10^3
χ^2 / ndf 1.773e+05 / 88
p0 1.362e+05 ± 0.2642
136.4
136.3
136.2
136.1
136
pull
Entries 89
Mean 754.1
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

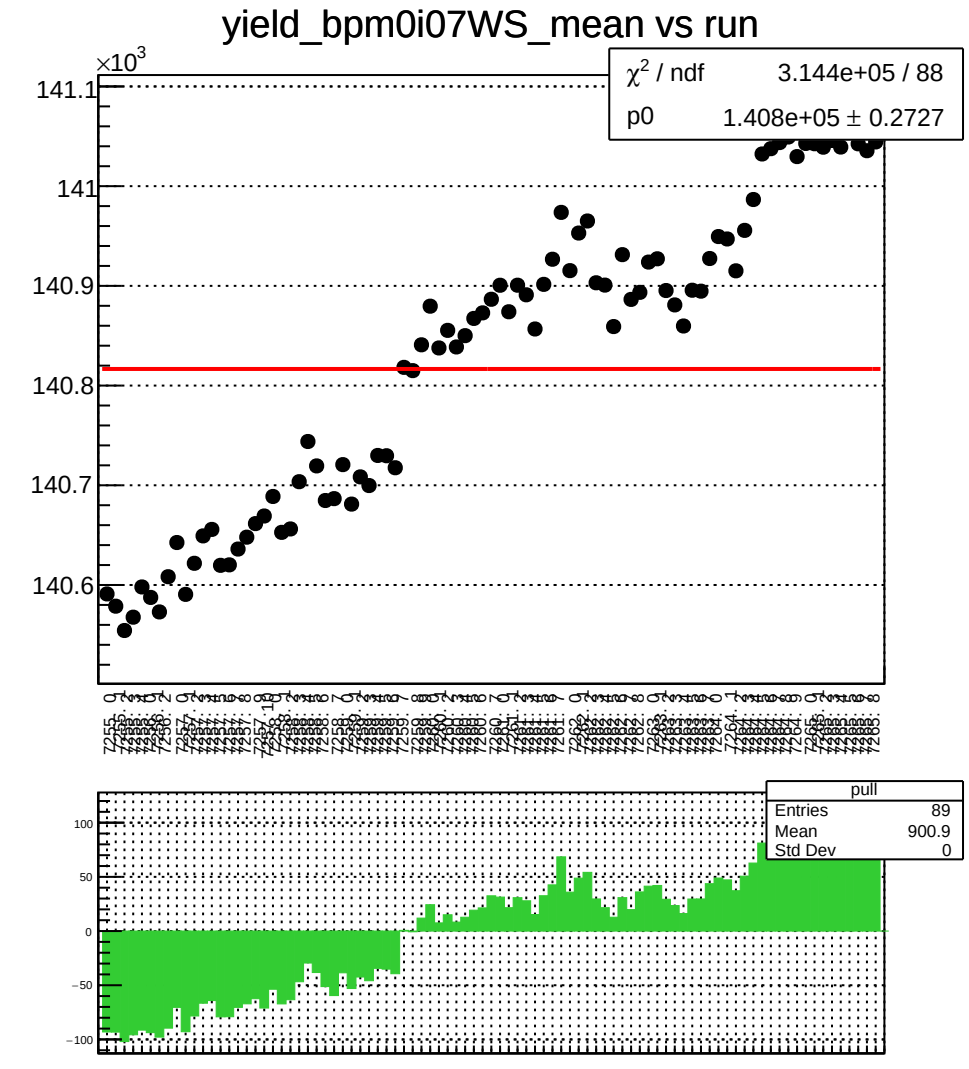

pull1D
Entries 89
Mean −1.619
Std Dev 4.786
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

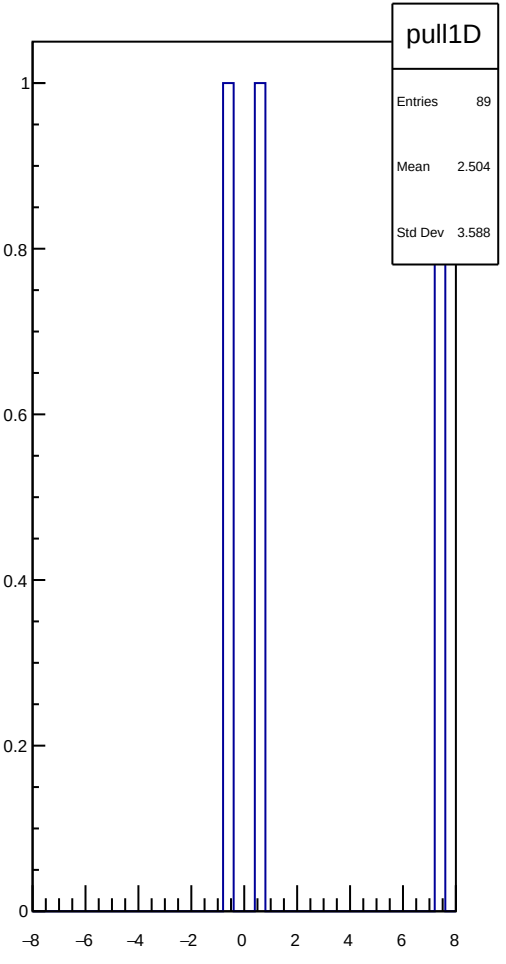

yield_bpm0i02aWS_rms vs run
χ² / ndf 8398 / 88
p0 242.6 ± 0.1868
360
340
320
300
280
260
240
220

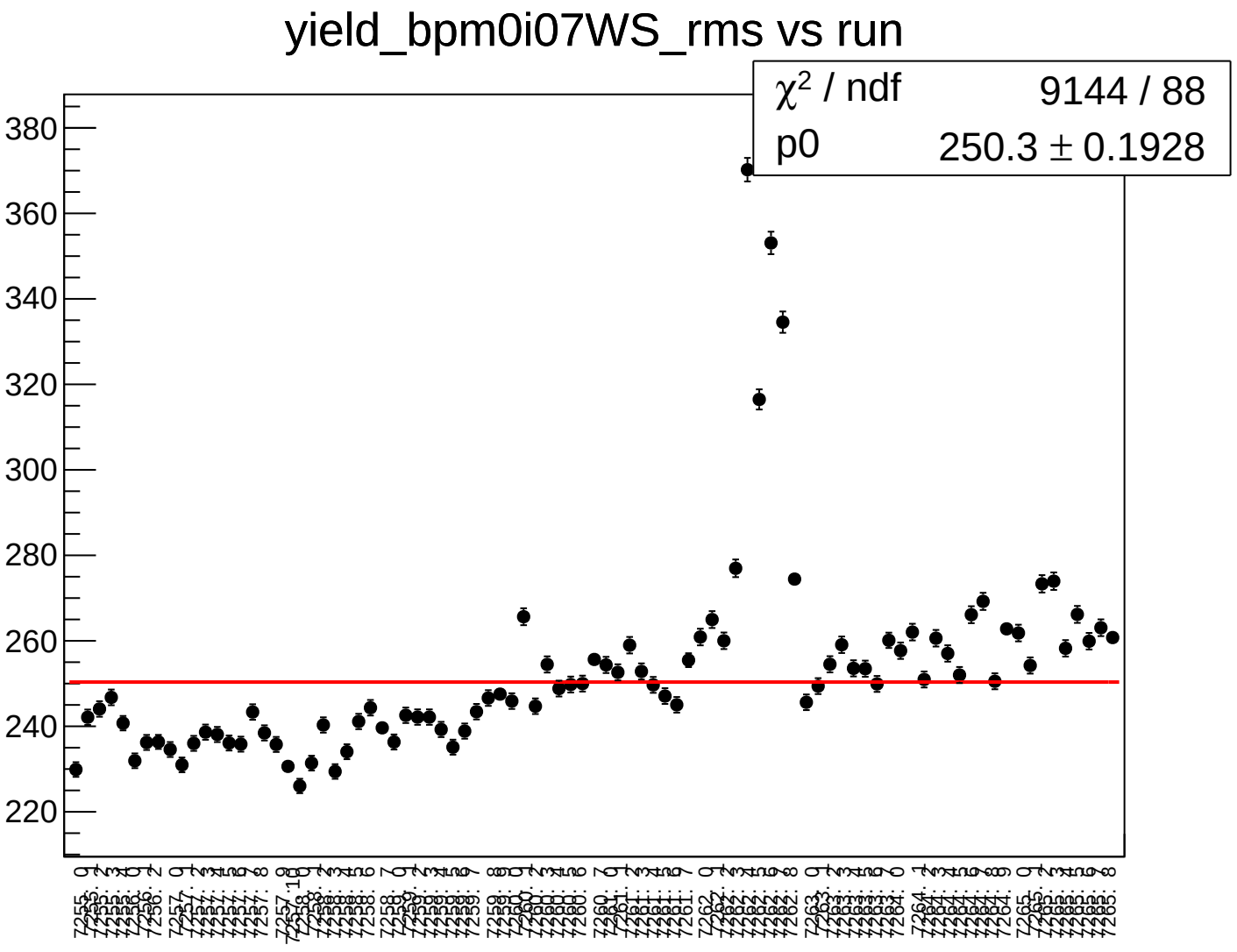

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 7.447e+04 / 88
p0 1.412e+05 ± 0.272
141.4
141.35
141.3
141.25
141.2
141.15
141.1
141.05
141
pull
Entries 89
Mean −384.7
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

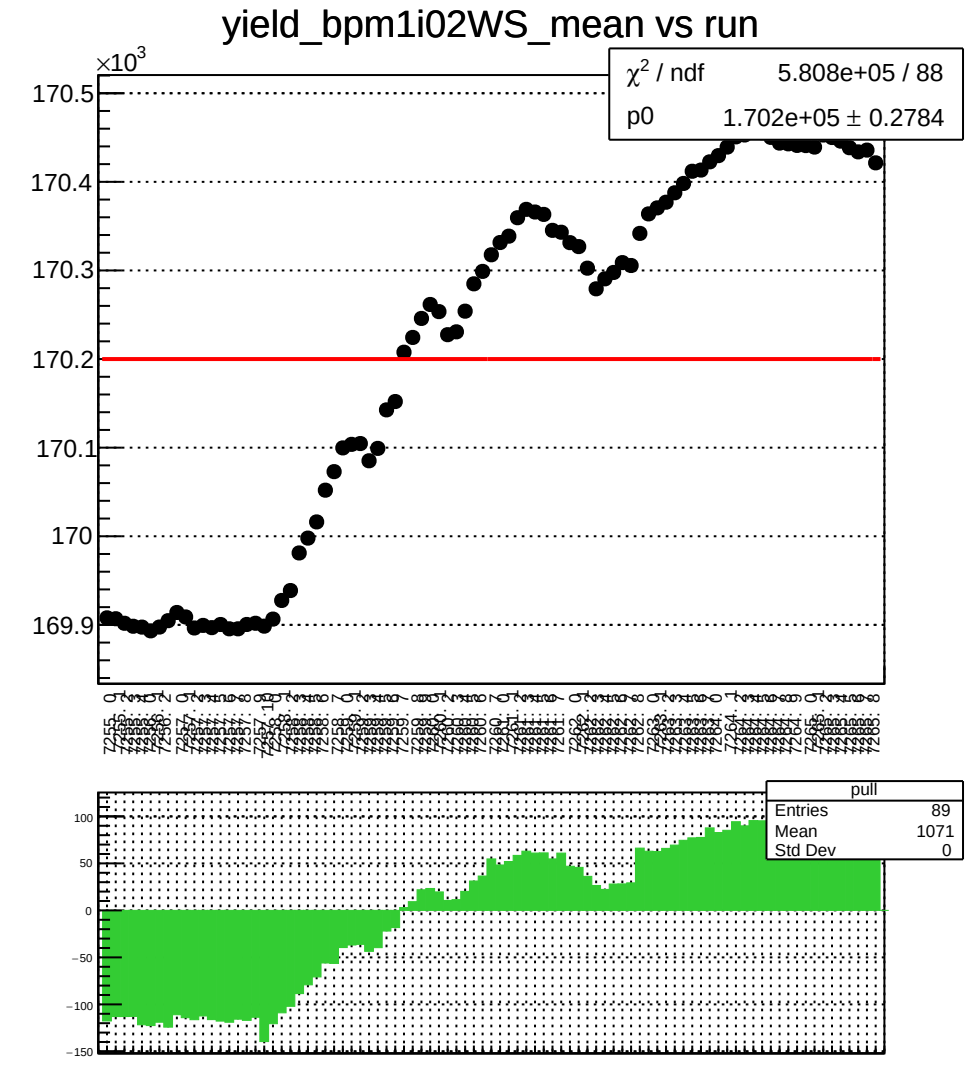

pull1D
Entries 89
Mean 0.7111
Std Dev 4.073
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

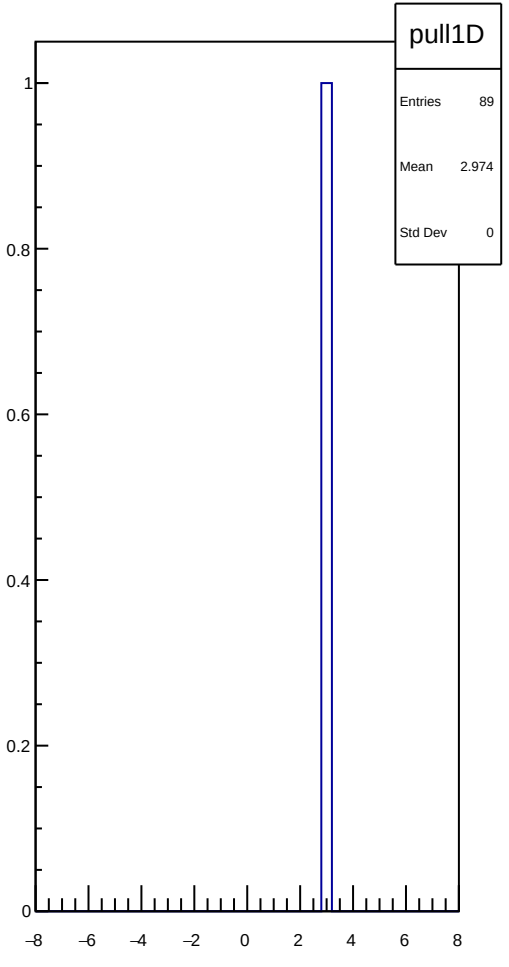

yield_bpm0i05WS_rms vs run
χ² / ndf 9279 / 88
p0 249.7 ± 0.1923
380
360
340
320
300
280
260
240
220

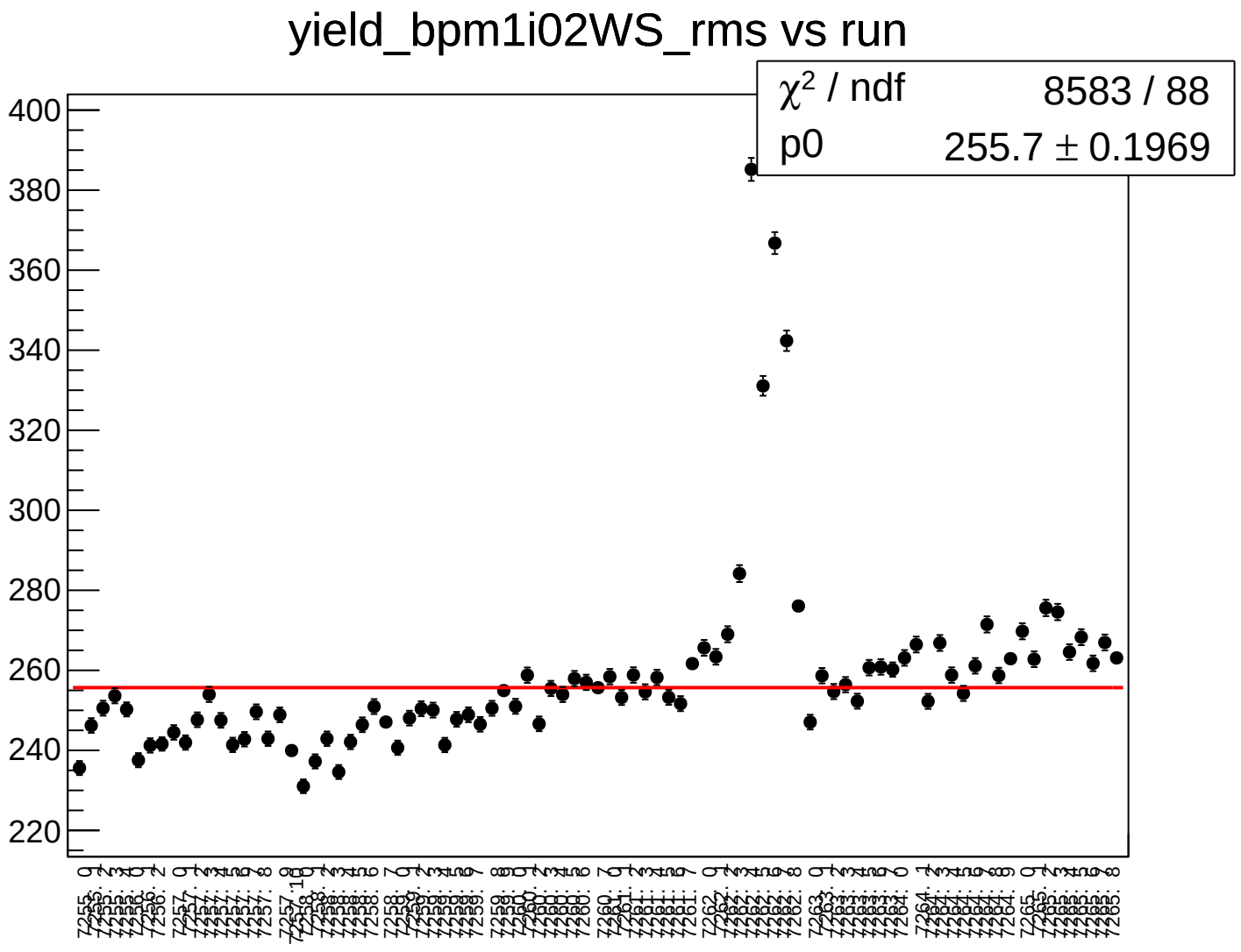

yield_bpm0i07WS_mean vs run
×10^3
141.1
141
140.9
140.8
140.7
140.6
χ² / ndf 3.144e+05 / 88
p0 1.408e+05 ± 0.2727
pull
Entries 89
Mean 900.9
Std Dev 0
100
50
0
−50
−100

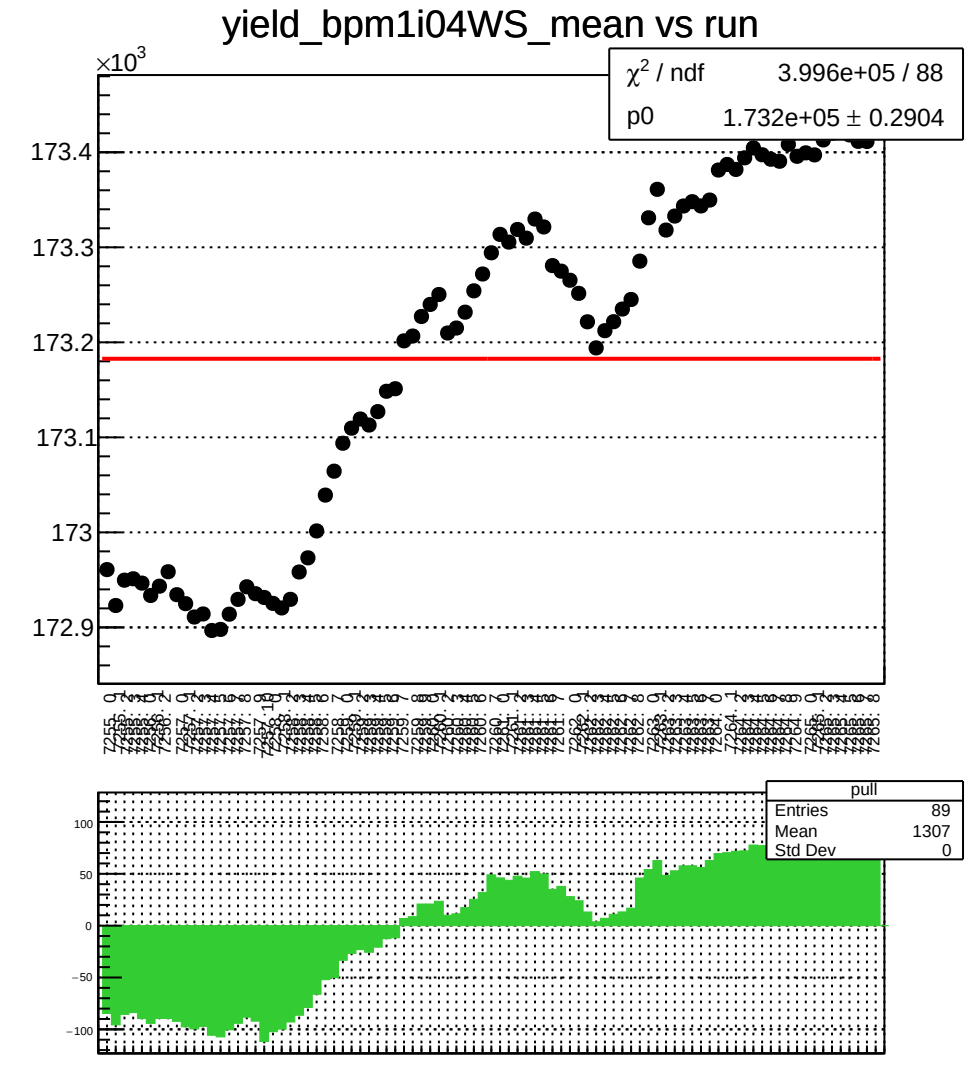

pull1D
Entries 89
Mean 2.504
Std Dev 3.588
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

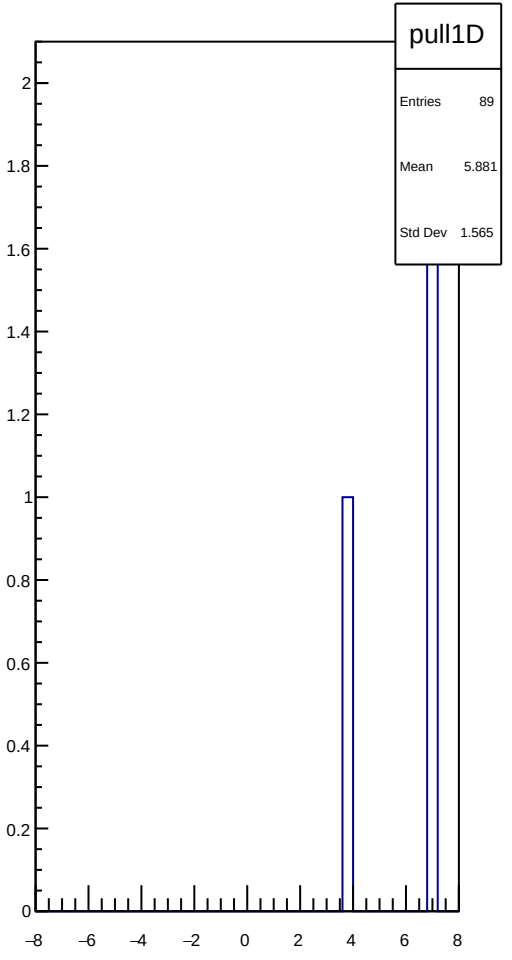

yield_bpm0i07WS_rms vs run
χ² / ndf 9144 / 88
p0 250.3 ± 0.1928
380
360
340
320
300
280
260
240
220

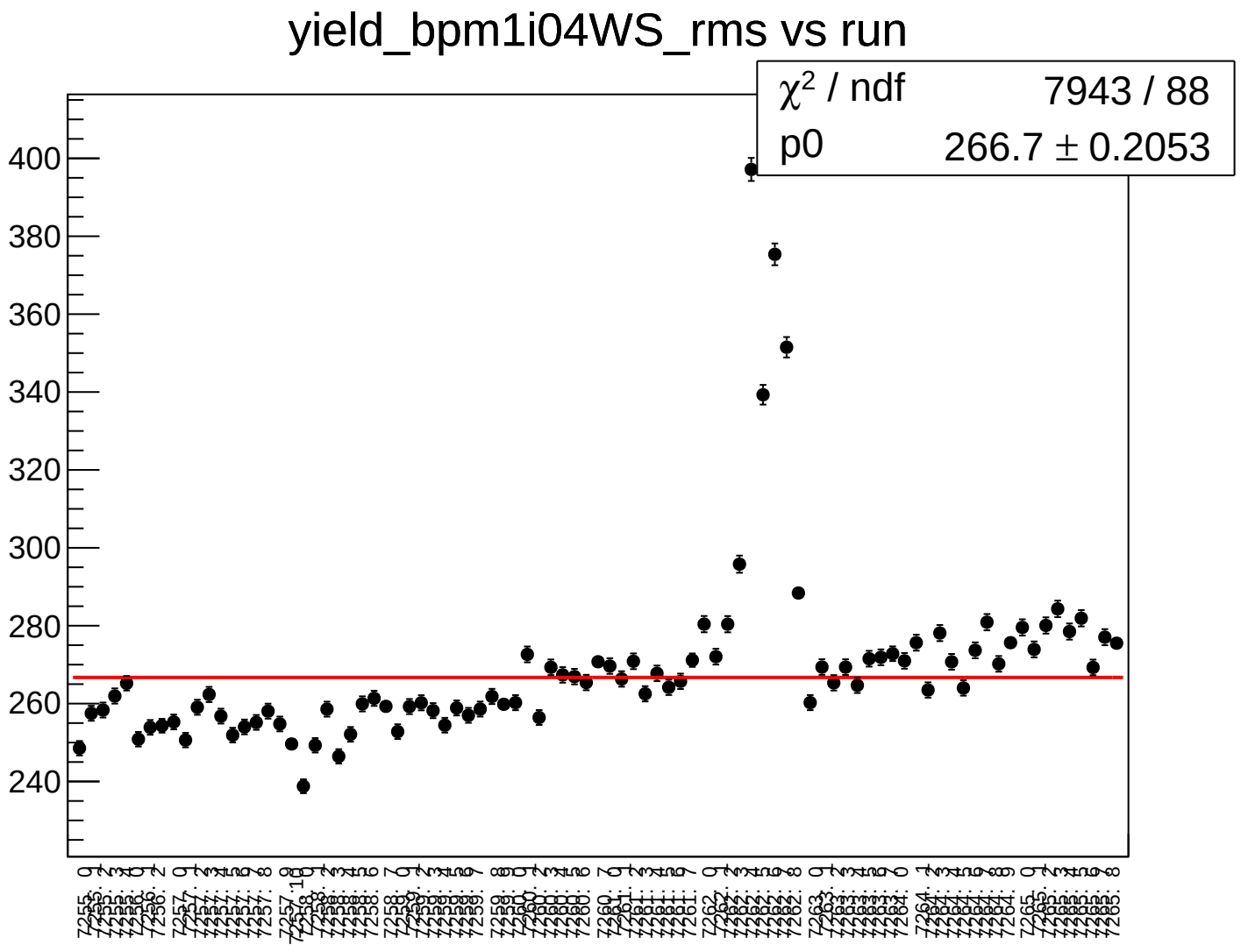

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 5.808e+05 / 88
p0 1.702e+05 ± 0.2784
170.5
170.4
170.3
170.2
170.1
170
169.9
pull
Entries 89
Mean 1071
Std Dev 0
100
50
0
−50
−100
−150

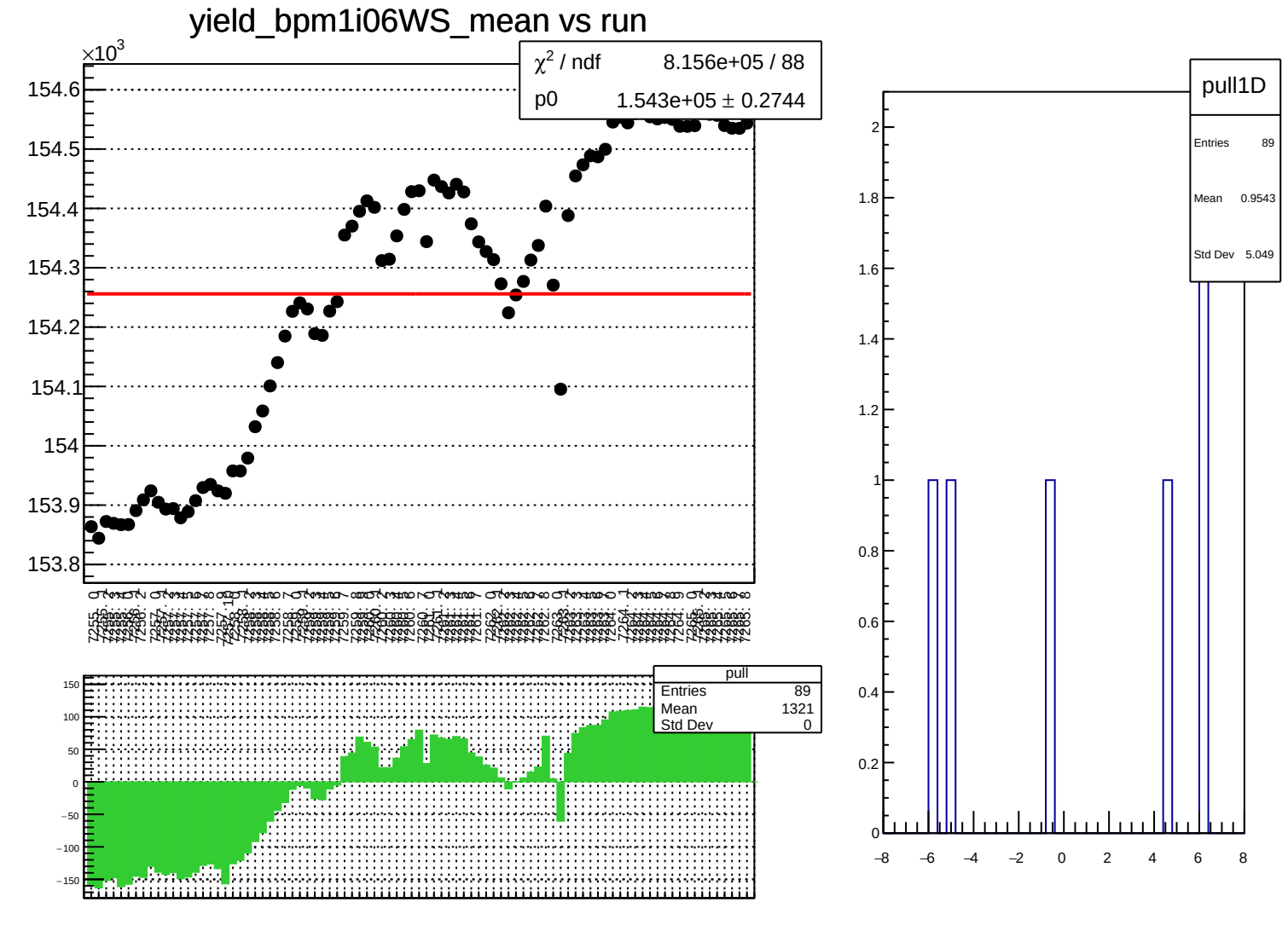

pull1D
Entries 89
Mean 2.974
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

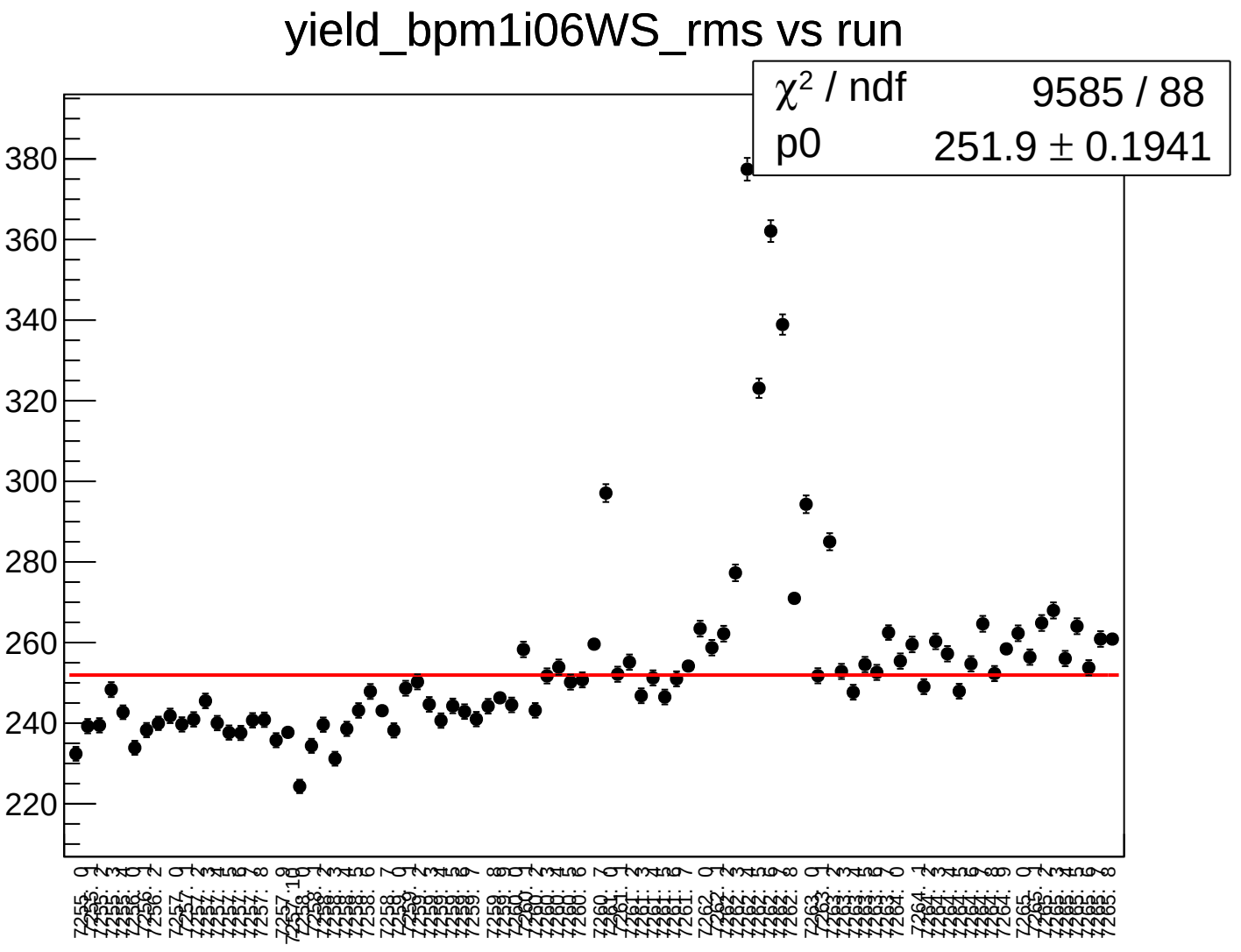

yield_bpm1i02WS_rms vs run
χ² / ndf 8583 / 88
p0 255.7 ± 0.1969
400
380
360
340
320
300
280
260
240
220

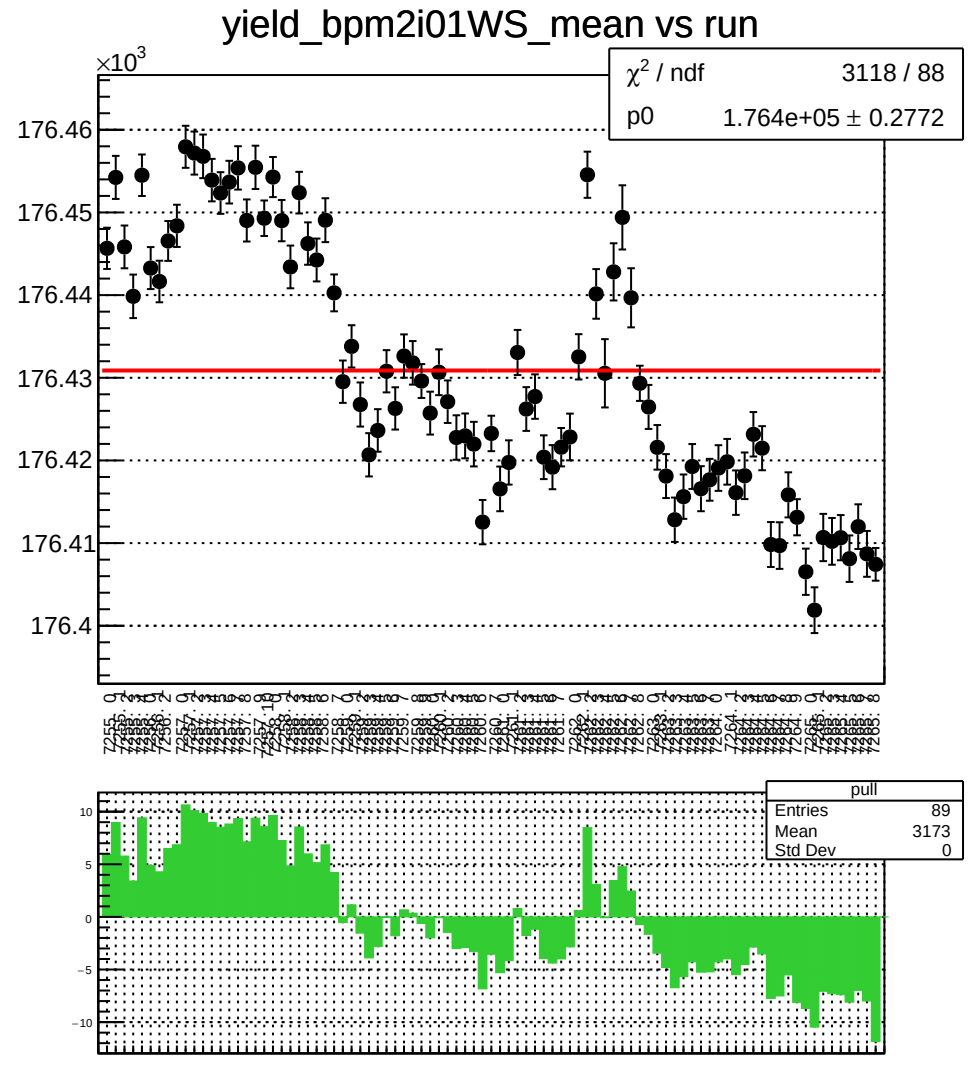

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 3.996e+05 / 88
p0 1.732e+05 ± 0.2904
173.4
173.3
173.2
173.1
173
172.9
pull
Entries 89
Mean 1307
Std Dev 0
100
50
0
−50
−100

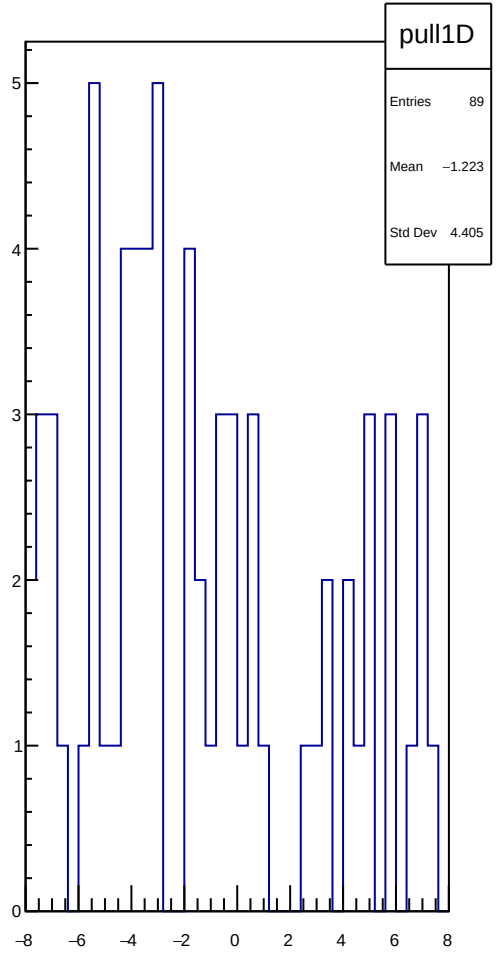

pull1D
Entries 89
Mean 5.881
Std Dev 1.565
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

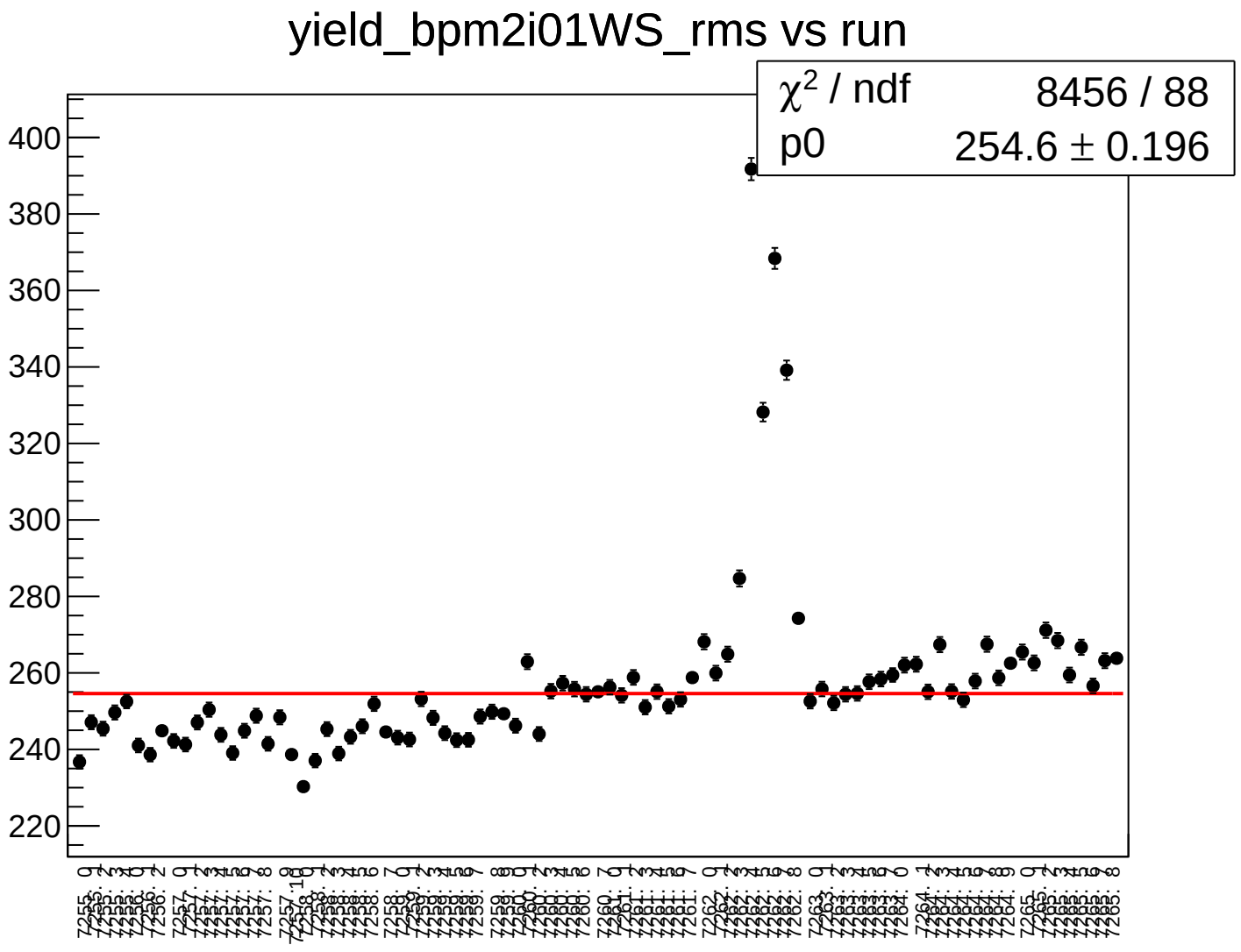

yield_bpm1i04WS_rms vs run
χ² / ndf 7943 / 88
p0 266.7 ± 0.2053
400
380
360
340
320
300
280
260
240

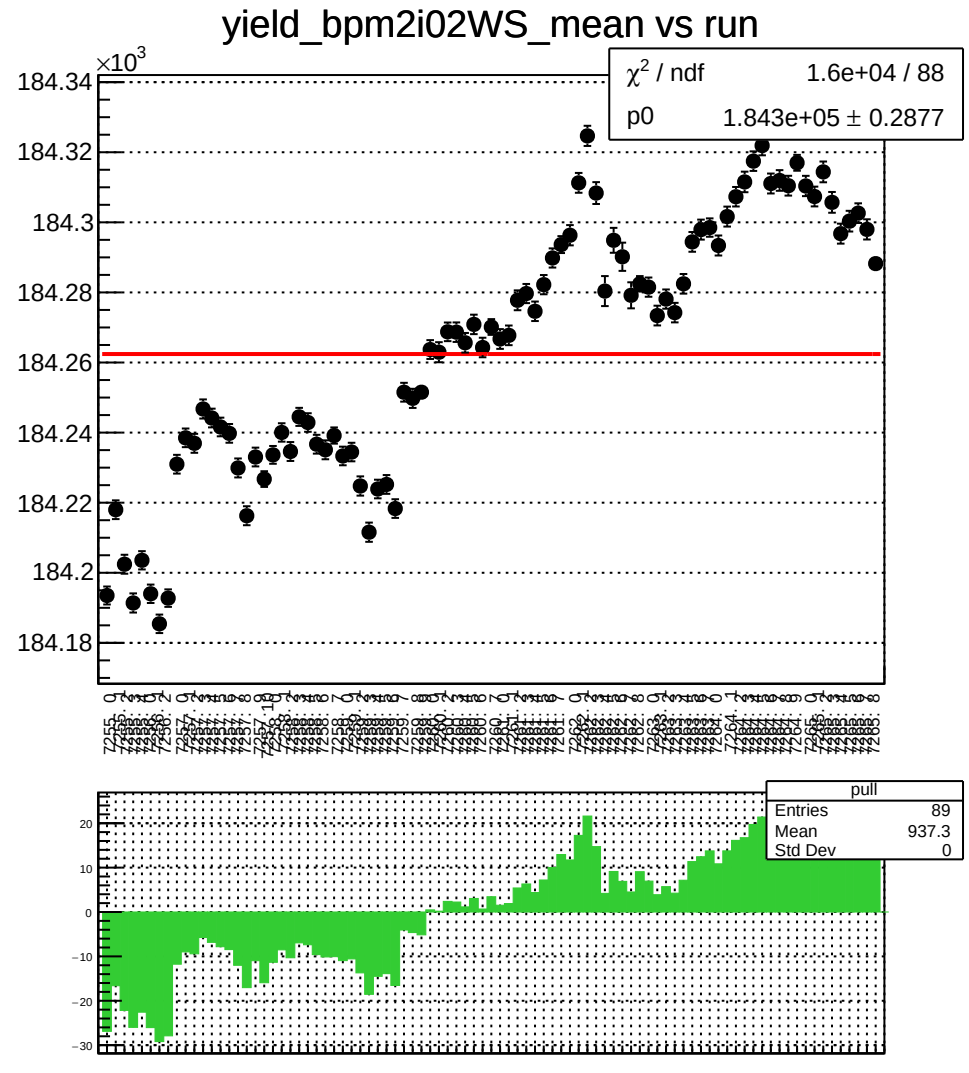

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 8.156e+05 / 88
p0 1.543e+05 ± 0.2744
154.6
154.5
154.4
154.3
154.2
154.1
154
153.9
153.8
pull
Entries 89
Mean 1321
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 89
Mean 0.9543
Std Dev 5.049
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

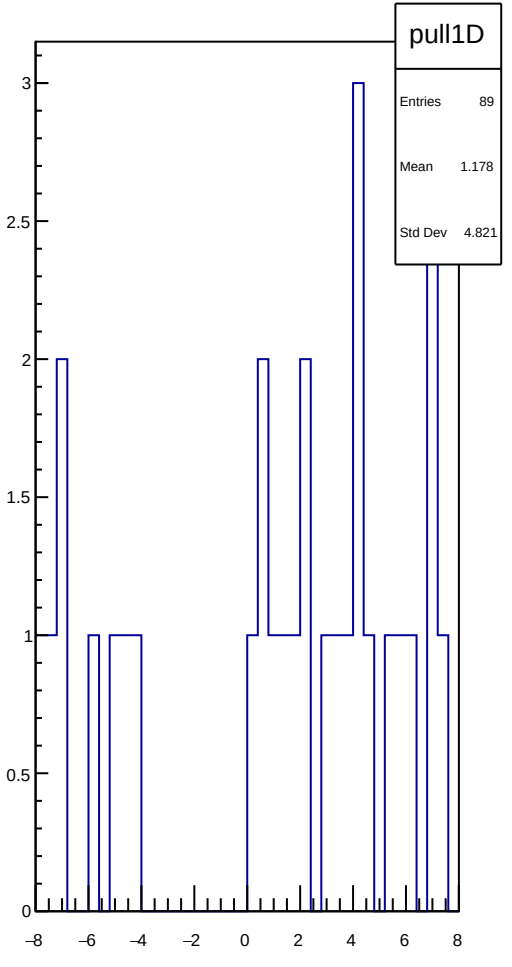

yield_bpm1i06WS_rms vs run
χ² / ndf 9585 / 88
p0 251.9 ± 0.1941
380
360
340
320
300
280
260
240
220

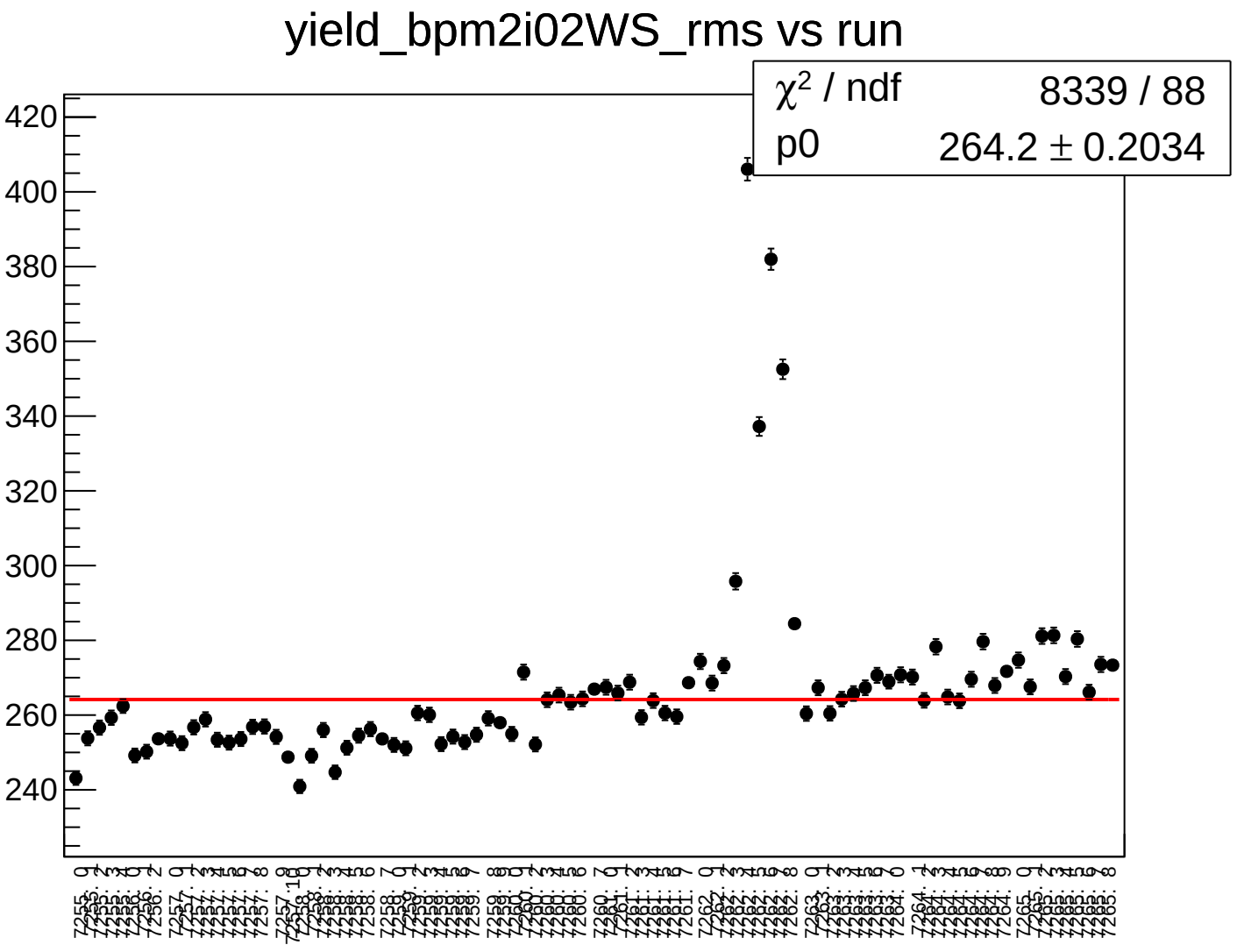

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3118 / 88
p0 1.764e+05 ± 0.2772
176.46
176.45
176.44
176.43
176.42
176.41
176.4
pull
Entries 89
Mean 3173
Std Dev 0
10
5
0
−5
−10

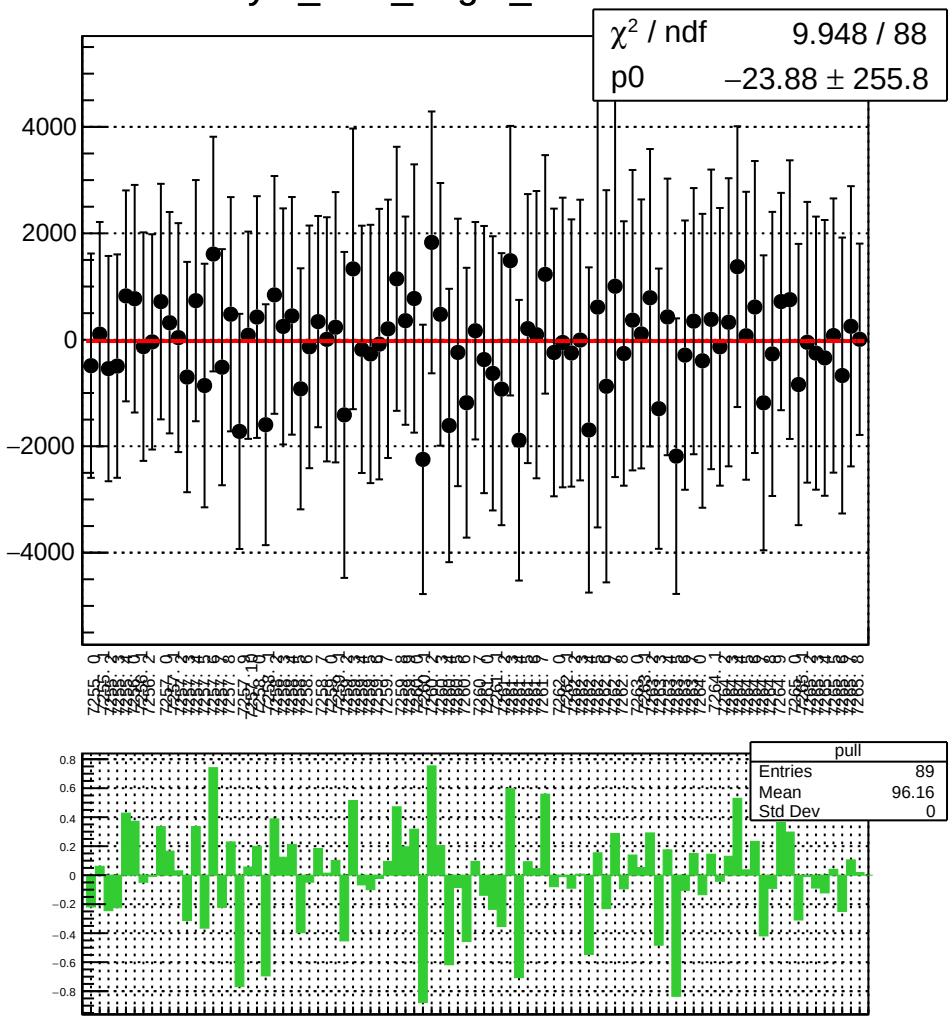

pull1D
Entries 89
Mean −1.223
Std Dev 4.405
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

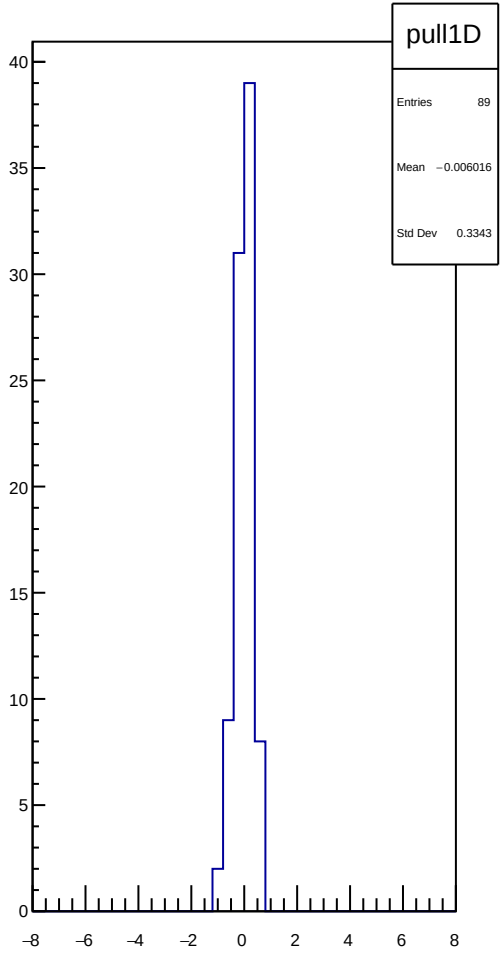

yield_bpm2i01WS_rms vs run
χ² / ndf 8456 / 88
p0 254.6 ± 0.196
400
380
360
340
320
300
280
260
240
220

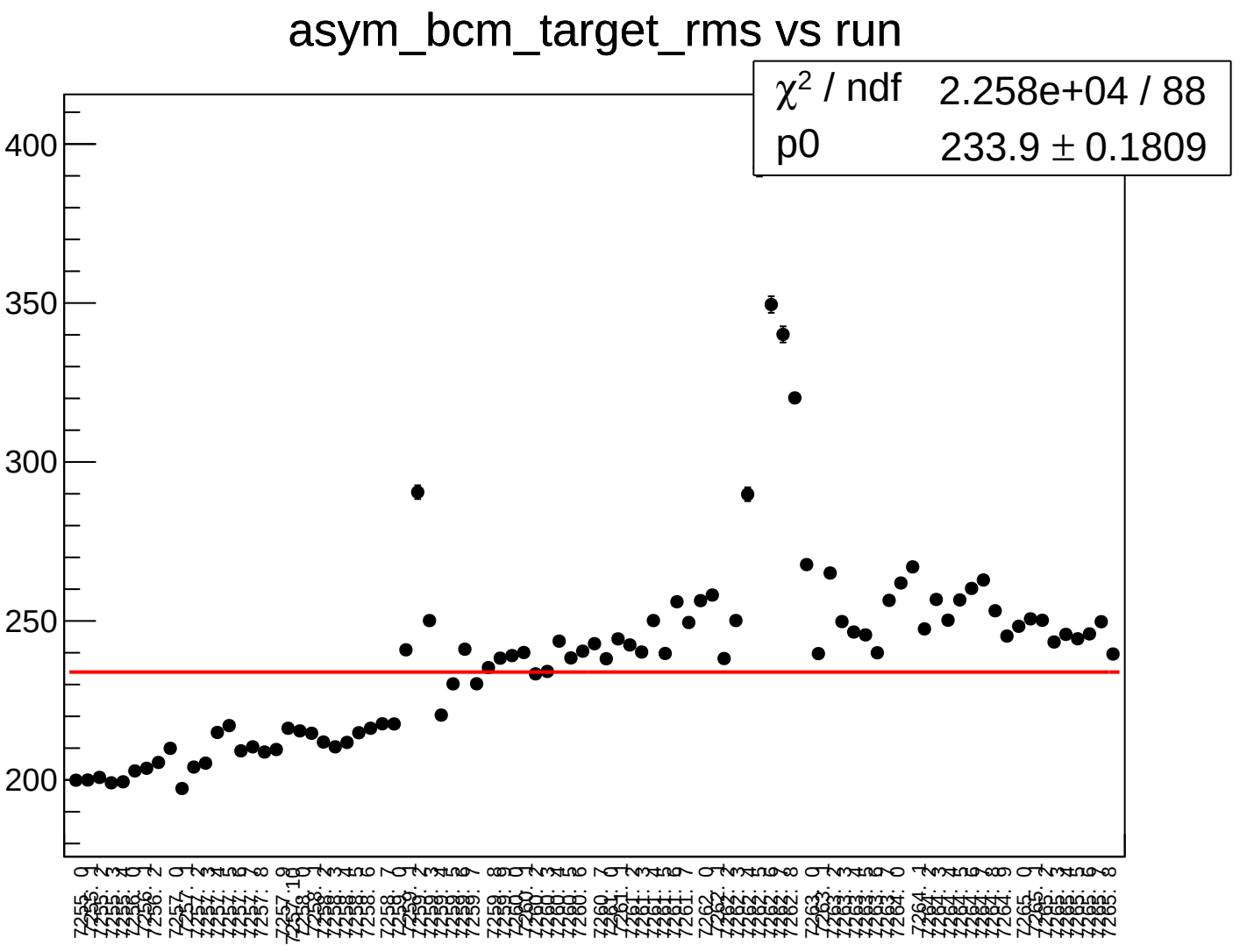

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 1.6e+04 / 88
p0 1.843e+05 ± 0.2877
184.34
184.32
184.3
184.28
184.26
184.24
184.22
184.2
184.18
pull
Entries 89
Mean 937.3
Std Dev 0
20
10
0
−10
−20
−30

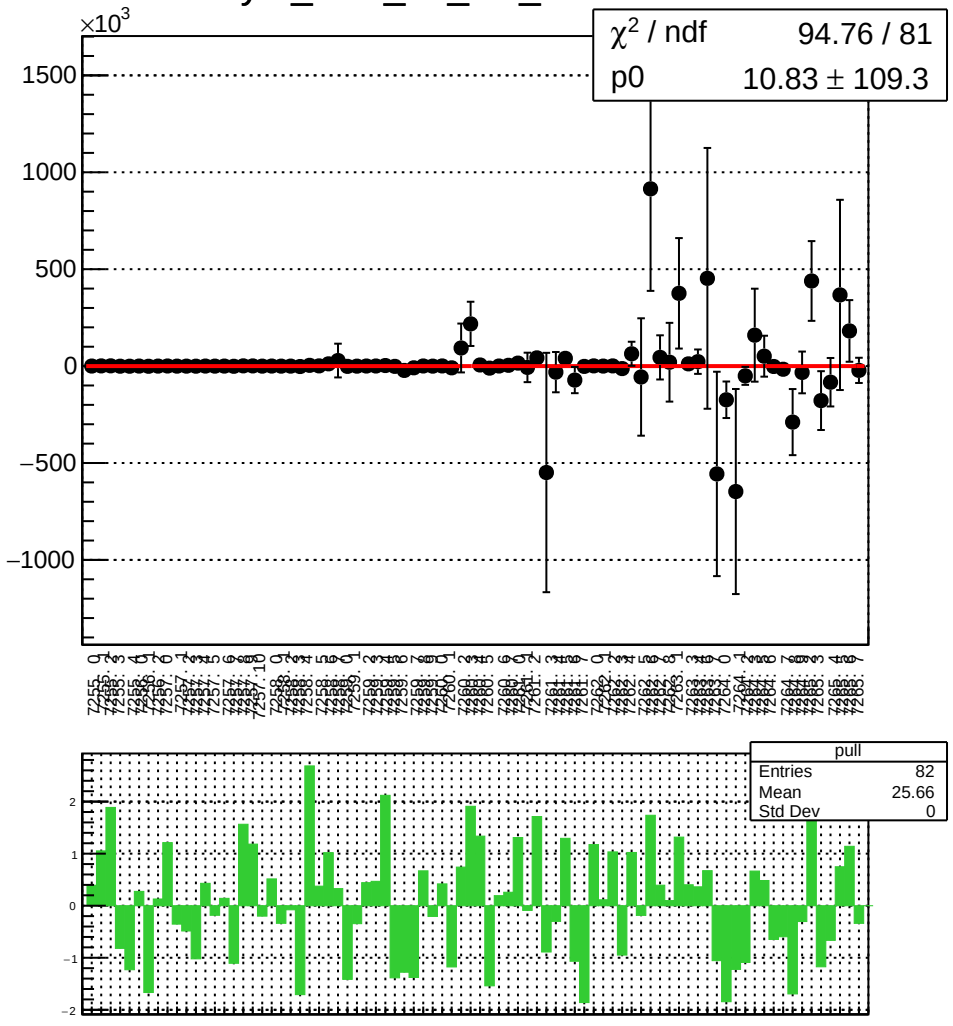

pull1D
Entries 89
Mean 1.178
Std Dev 4.821
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

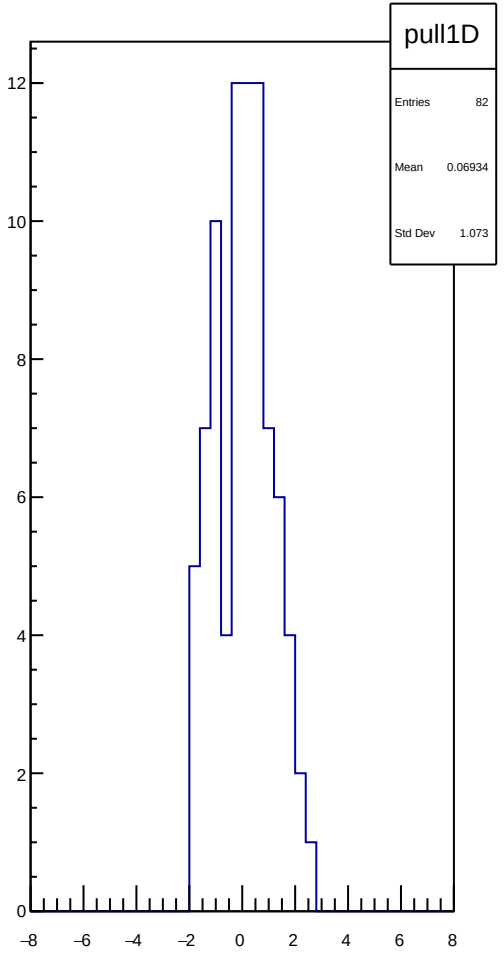

yield_bpm2i02WS_rms vs run
χ² / ndf 8339 / 88
p0 264.2 ± 0.2034
420
400
380
360
340
320
300
280
260
240

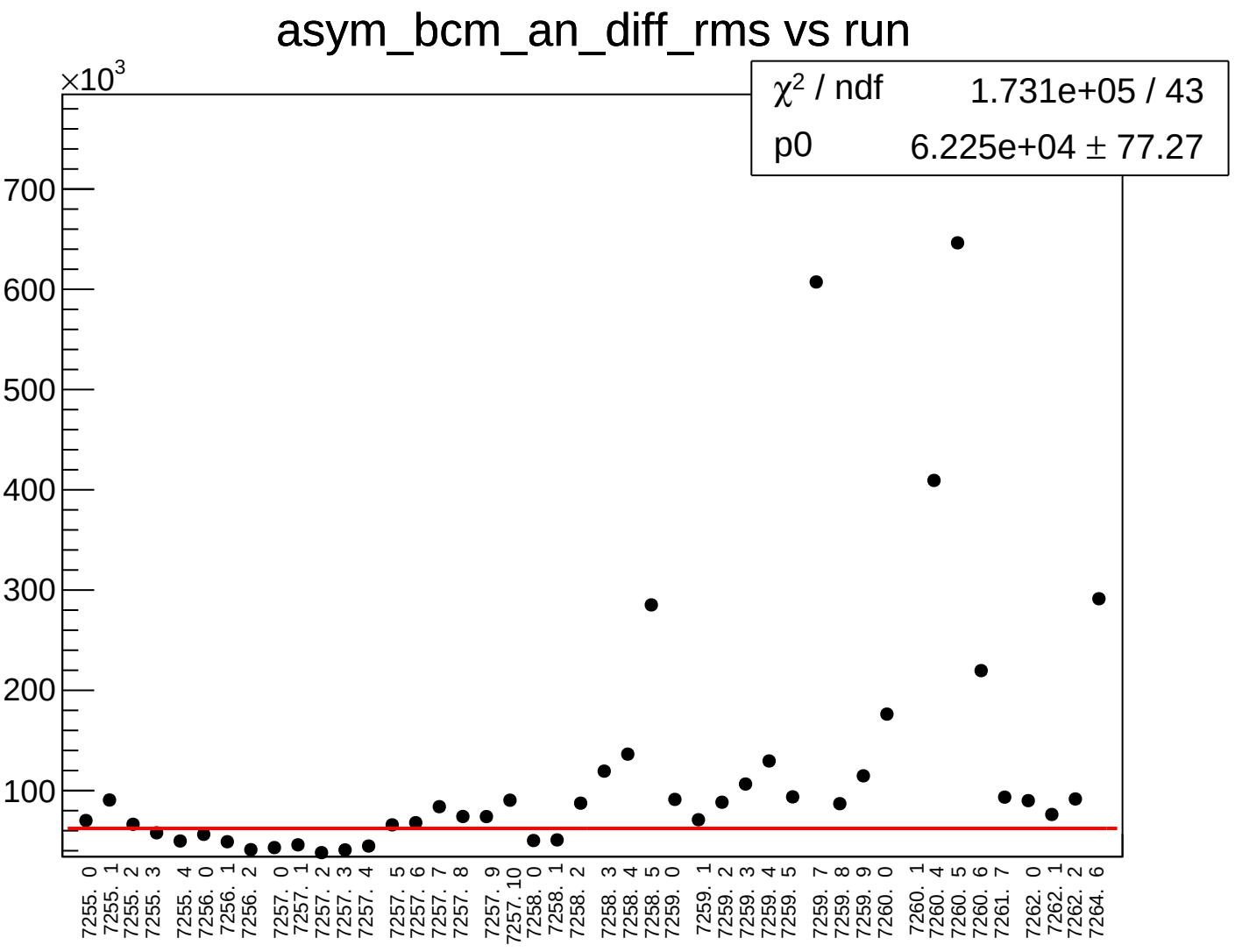

asym_bcm_target_mean vs run
χ² / ndf 9.948 / 88
p0 −23.88 ± 255.8
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 96.16
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

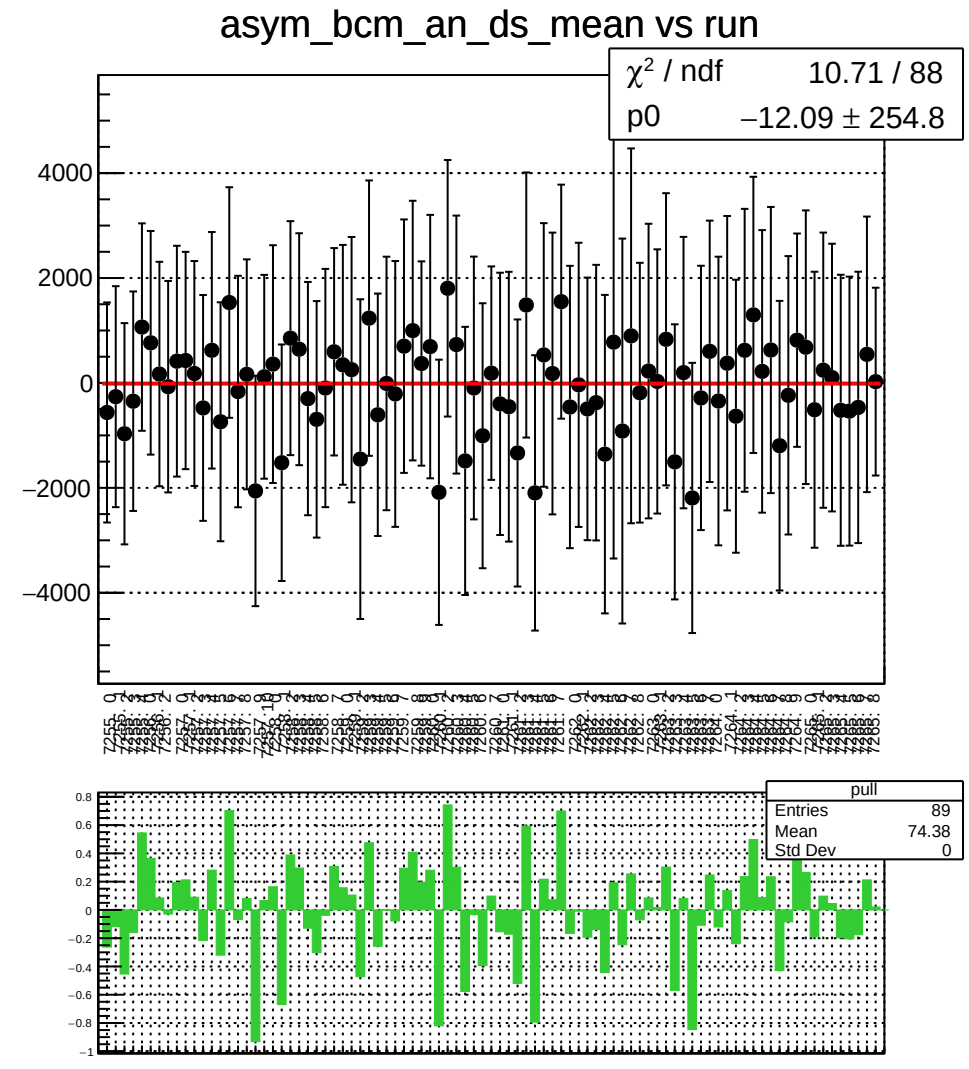

pull1D
Entries 89
Mean −0.006016
Std Dev 0.3343
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

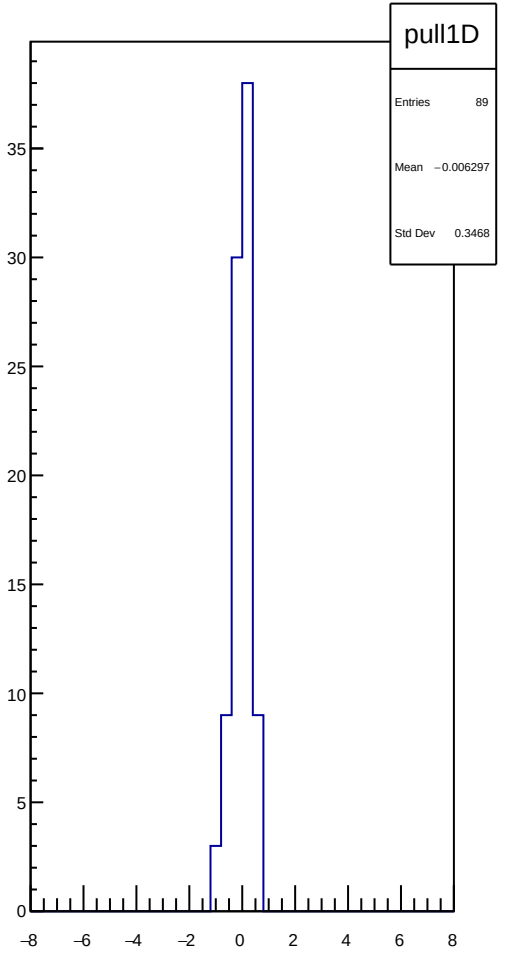

asym_bcm_target_rms vs run
χ² / ndf 2.258e+04 / 88
p0 233.9 ± 0.1809
400
350
300
250
200

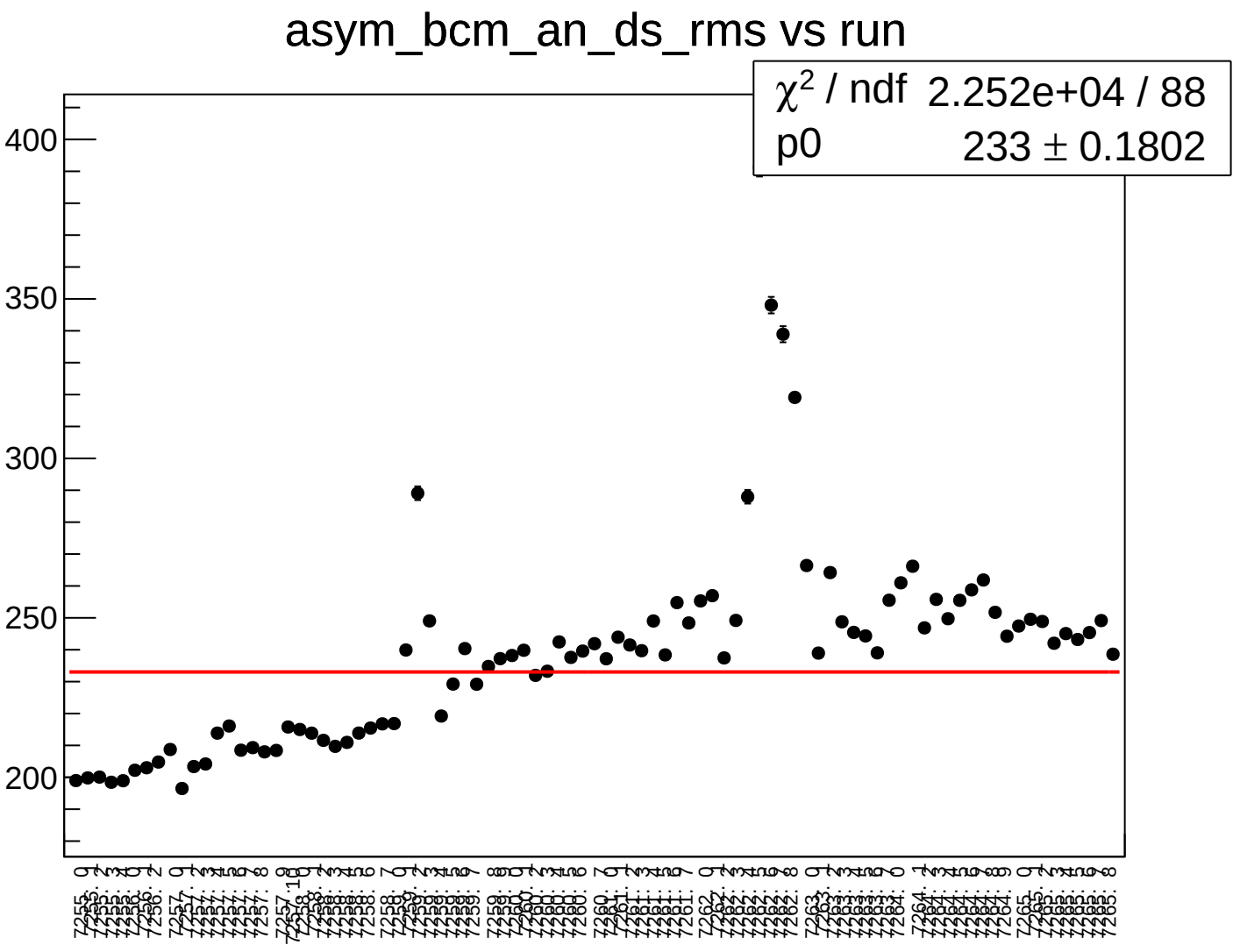

asym_bcm_an_diff_mean vs run
×10^3
χ^2 / ndf 94.76 / 81
p0 10.83 ± 109.3
1500
1000
500
0
−500
−1000
pull
Entries 82
Mean 25.66
Std Dev 0
2
1
0
−1
−2

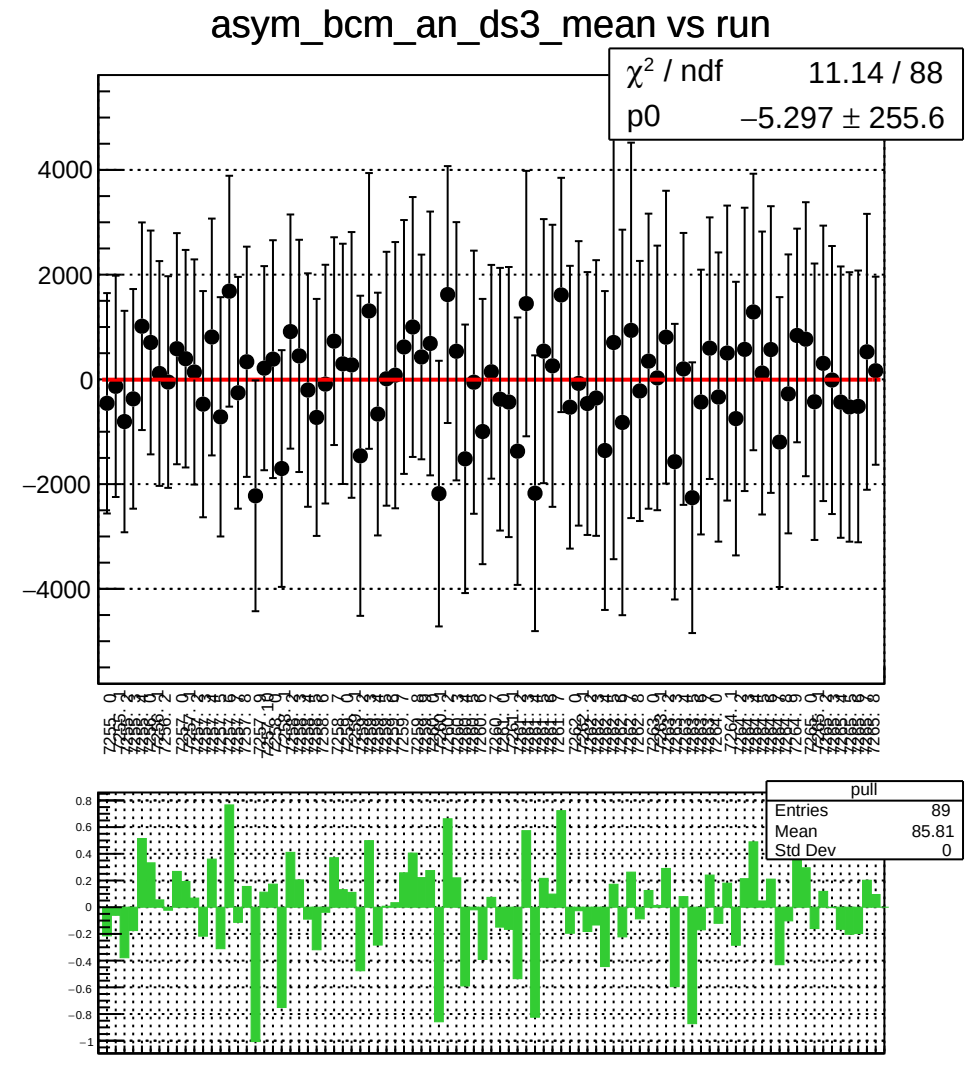

pull1D
Entries 82
Mean 0.06934
Std Dev 1.073
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

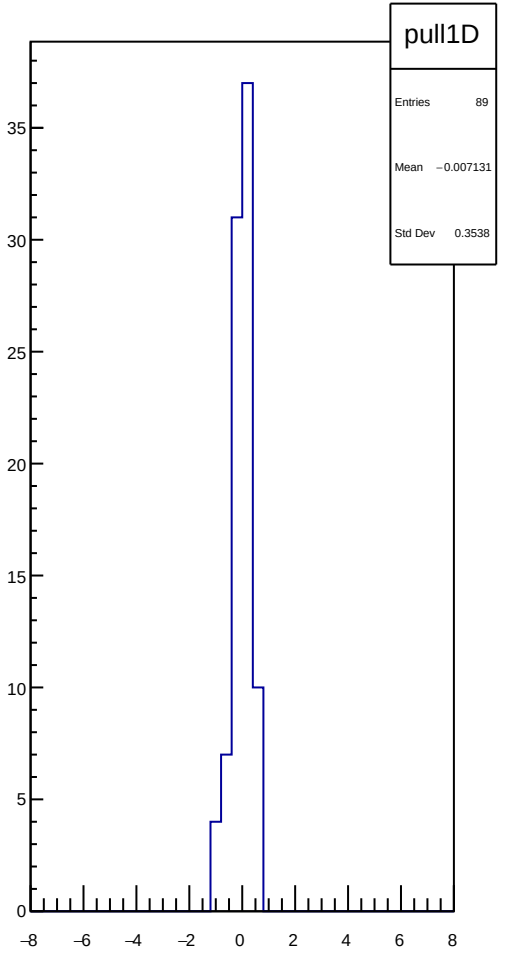

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 1.731e+05 / 43
p0 6.225e+04 ± 77.27
700
600
500
400
300
200
100
7255. 0
7255. 1
7255. 2
7255. 3
7255. 4
7256. 0
7256. 1
7256. 2
7257. 0
7257. 1
7257. 2
7257. 3
7257. 4
7257. 5
7257. 6
7257. 7
7257. 8
7257. 9
7257. 10
7258. 0
7258. 1
7258. 2
7258. 3
7258. 4
7258. 5
7259. 0
7259. 1
7259. 2
7259. 3
7259. 4
7259. 5
7259. 7
7259. 8
7259. 9
7260. 0
7260. 1
7260. 4
7260. 5
7260. 6
7261. 7
7262. 0
7262. 1
7262. 2
7264. 6

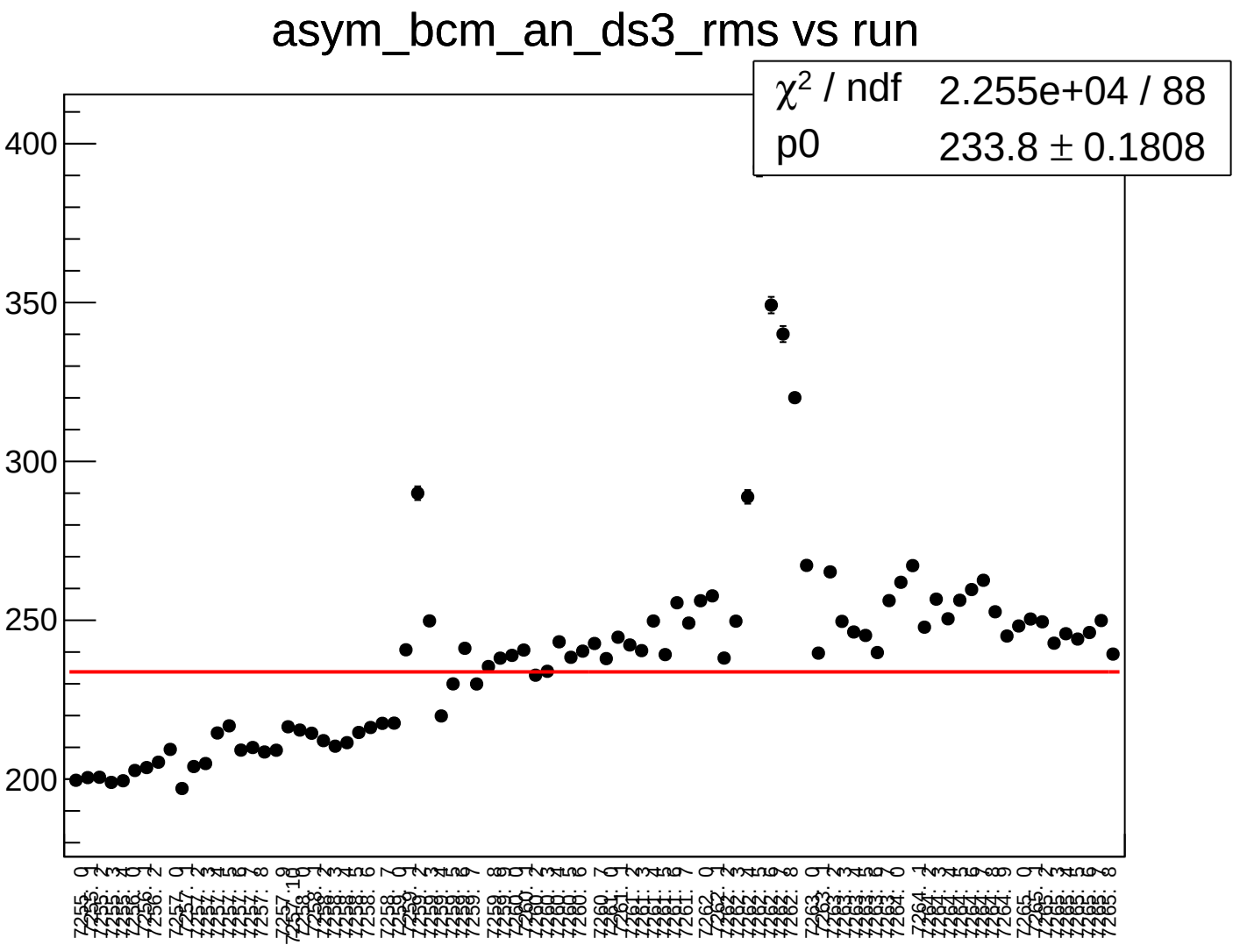

asym_bcm_an_ds_mean vs run
χ² / ndf 10.71 / 88
p0 −12.09 ± 254.8
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 74.38
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

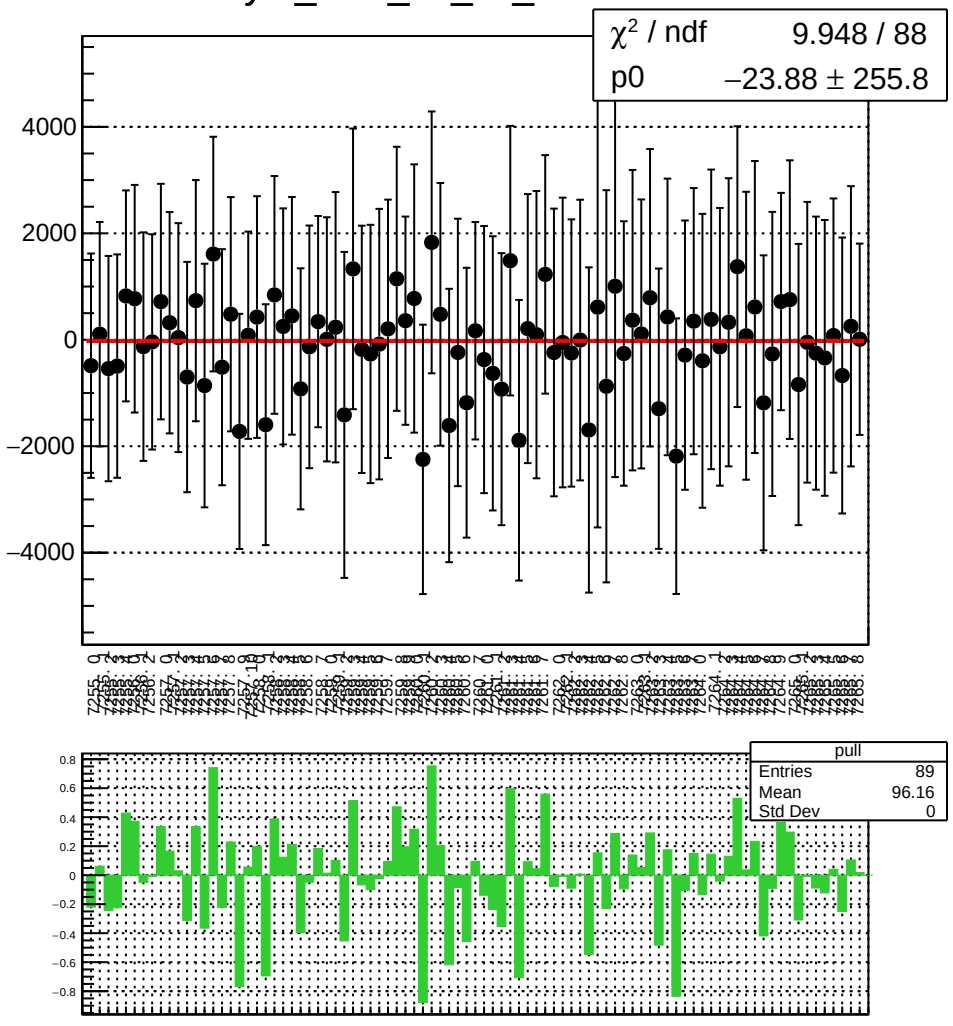

pull1D
Entries 89
Mean −0.006297
Std Dev 0.3468
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

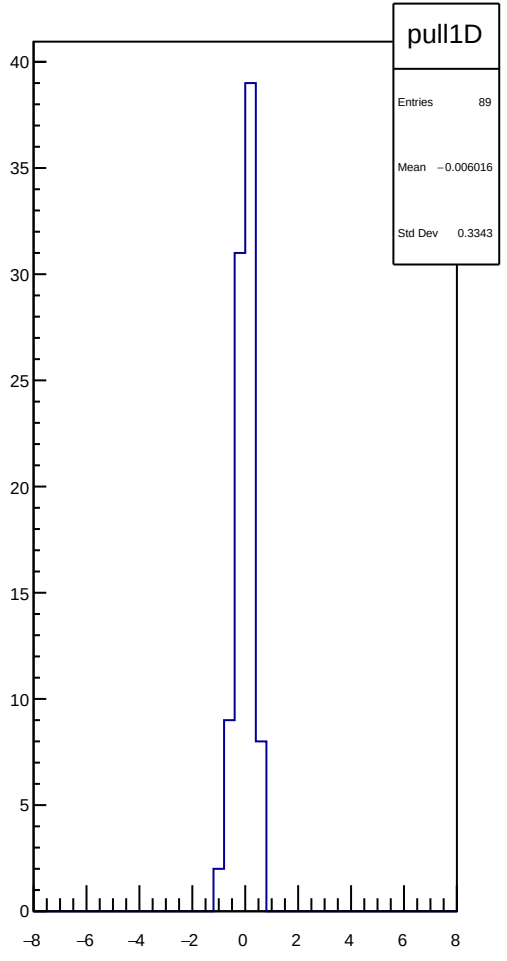

asym_bcm_an_ds_rms vs run
χ² / ndf 2.252e+04 / 88
p0 233 ± 0.1802
400
350
300
250
200

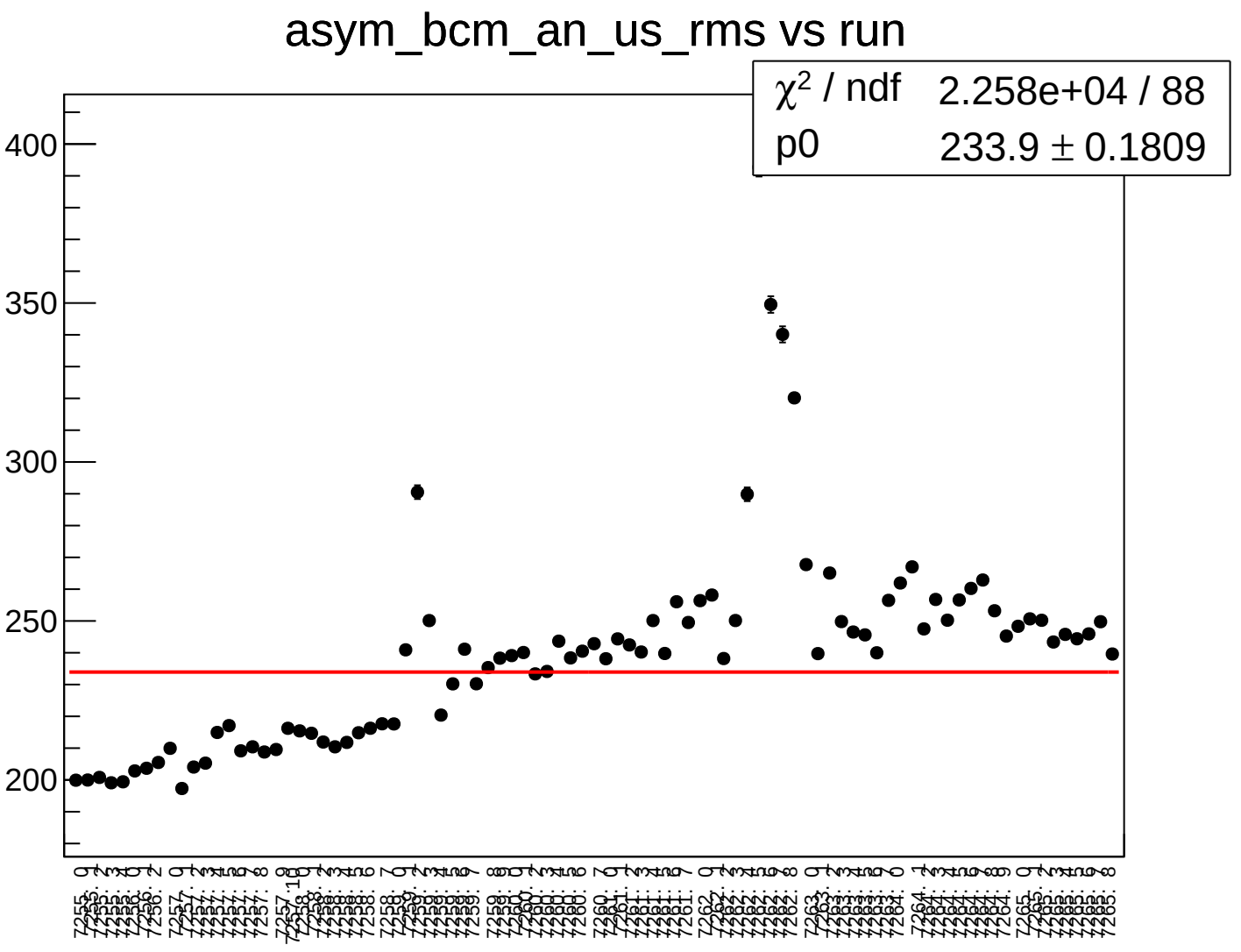

asym_bcm_an_ds3_mean vs run
χ² / ndf 11.14 / 88
p0 −5.297 ± 255.6
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 85.81
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

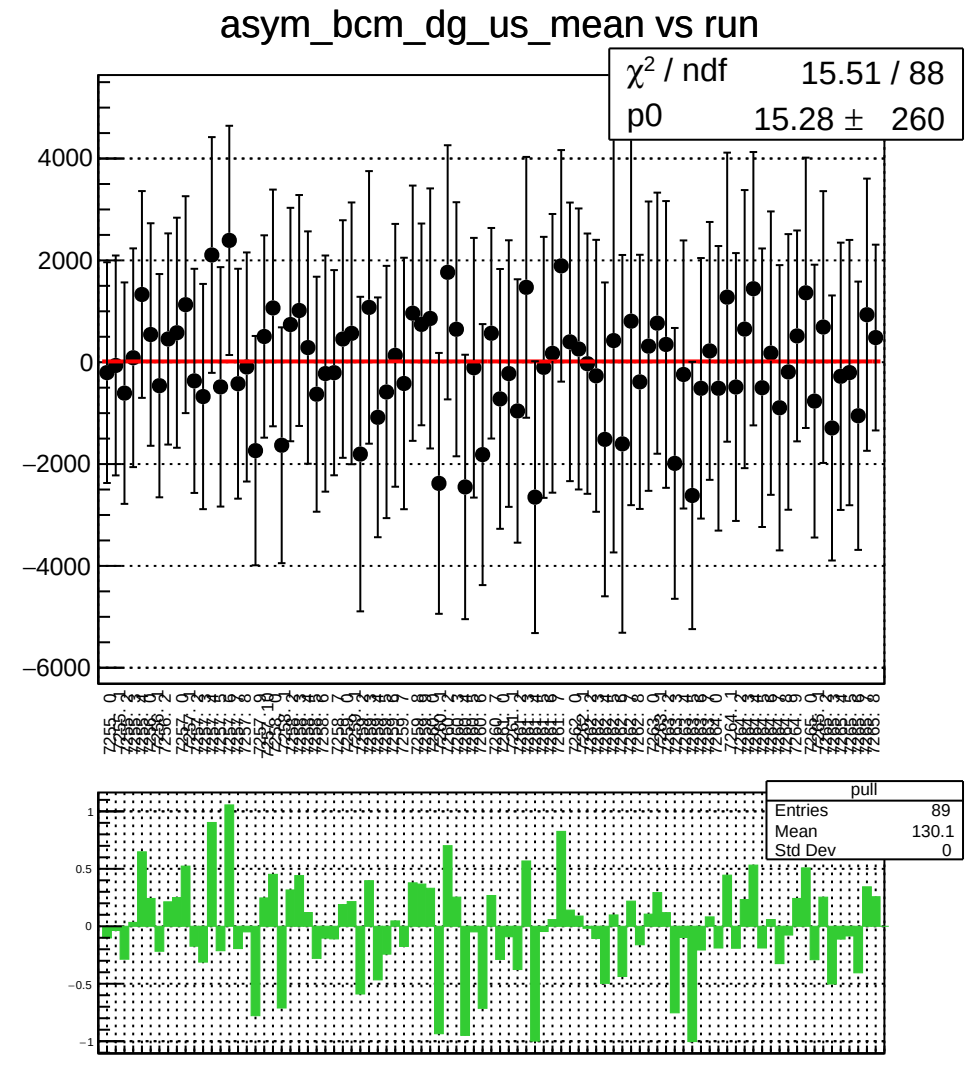

pull1D
Entries 89
Mean −0.007131
Std Dev 0.3538
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

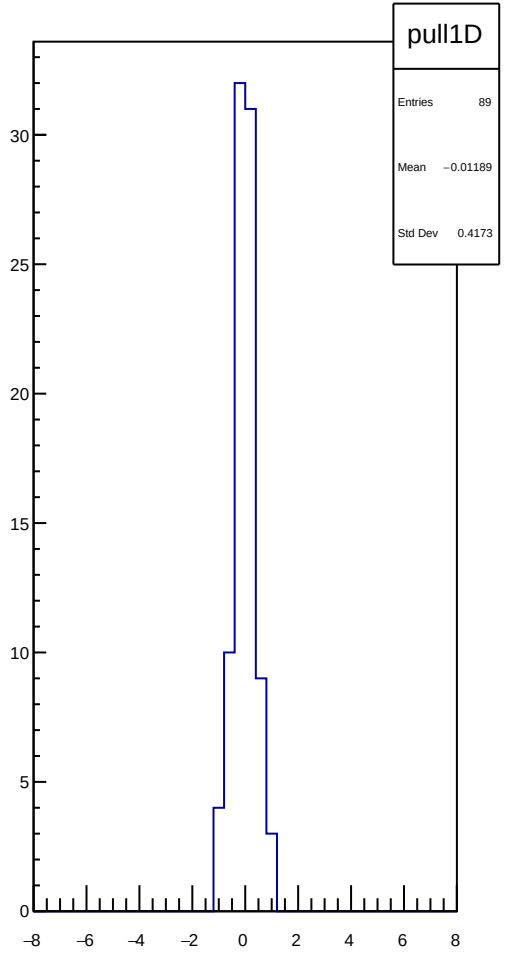

asym_bcm_an_ds3_rms vs run
χ² / ndf 2.255e+04 / 88
p0 233.8 ± 0.1808
400
350
300
250
200

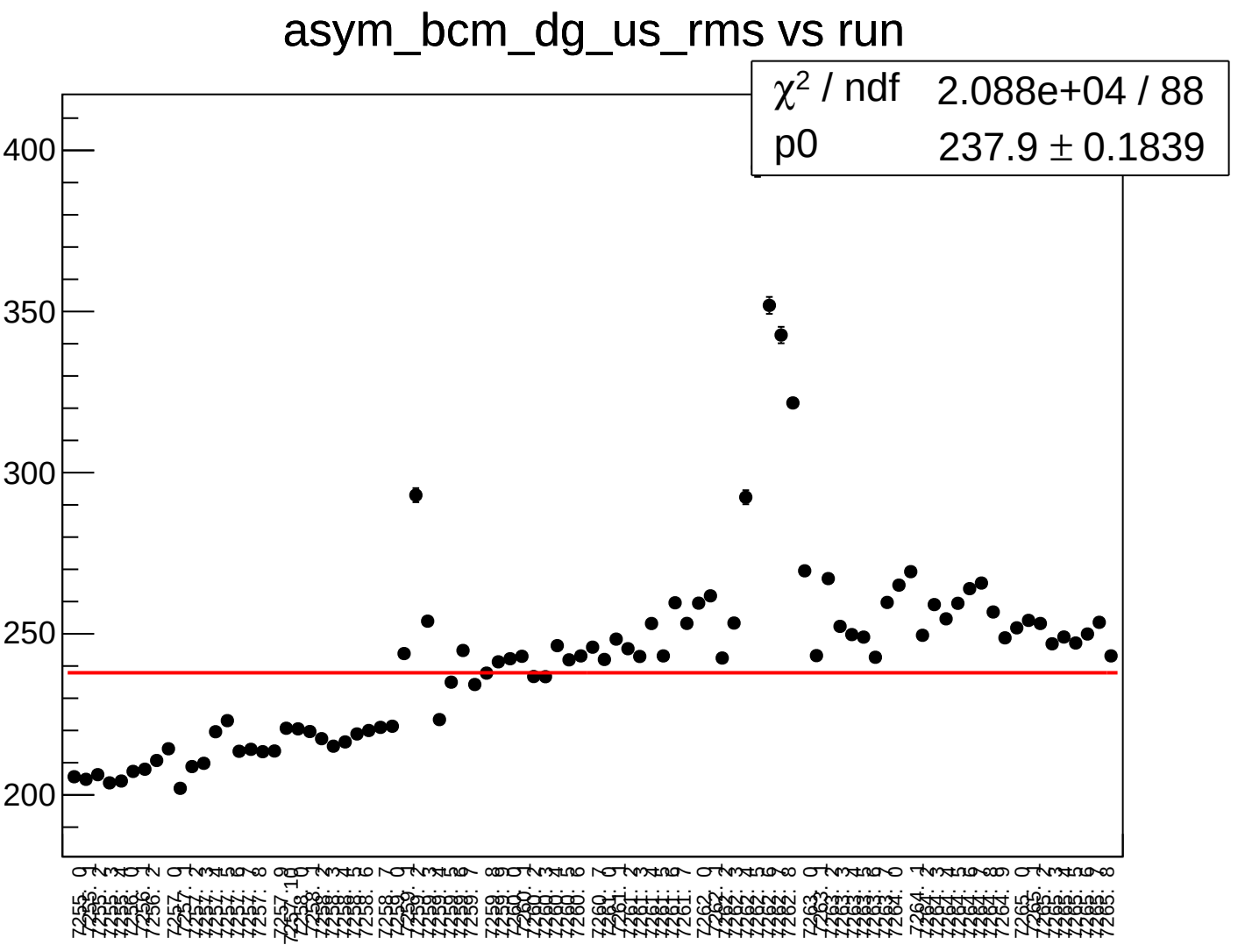

asym_bcm_an_us_mean vs run
χ² / ndf 9.948 / 88
p0 −23.88 ± 255.8
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 96.16
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

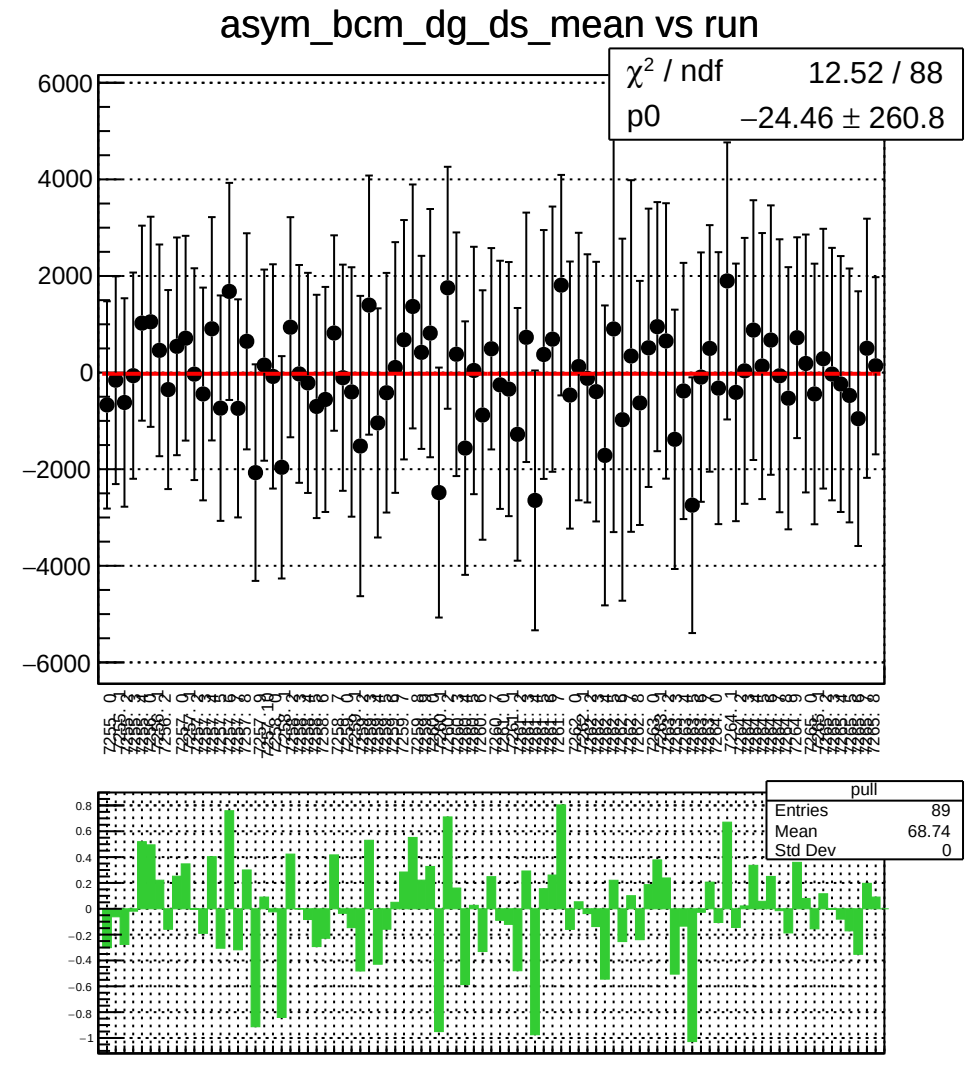

pull1D
Entries 89
Mean −0.006016
Std Dev 0.3343
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

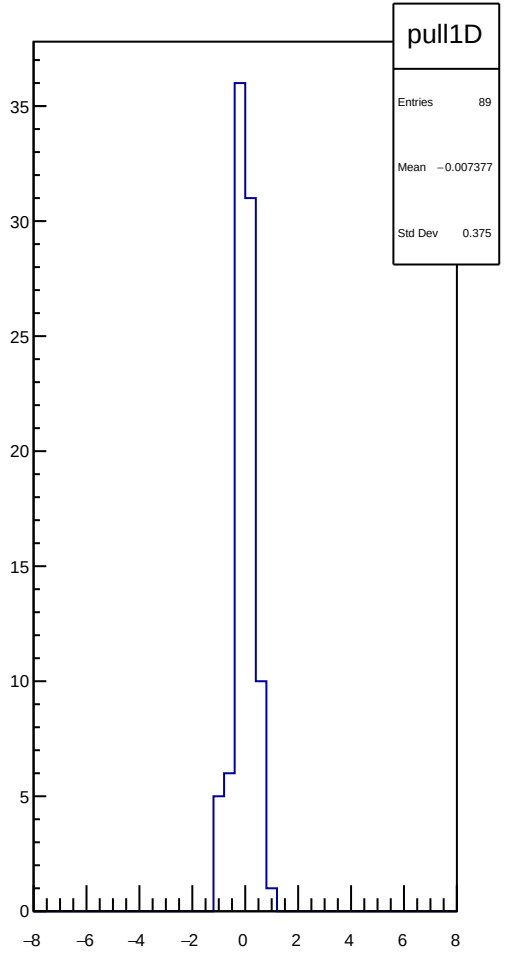

asym_bcm_an_us_rms vs run
χ² / ndf 2.258e+04 / 88
p0 233.9 ± 0.1809
400
350
300
250
200

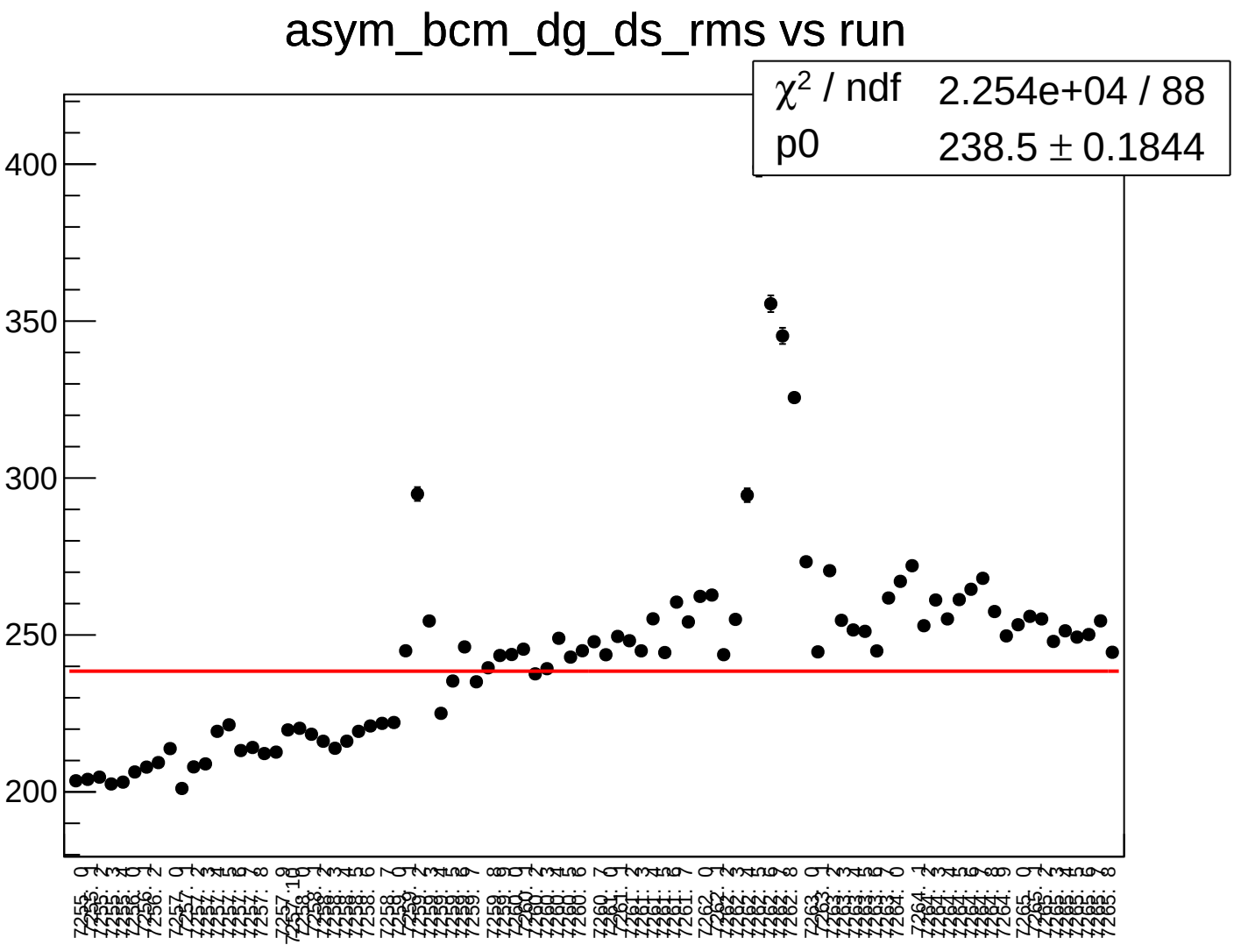

asym_bcm_dg_us_mean vs run
χ² / ndf 15.51 / 88
p0 15.28 ± 260
pull
Entries 89
Mean 130.1
Std Dev 0

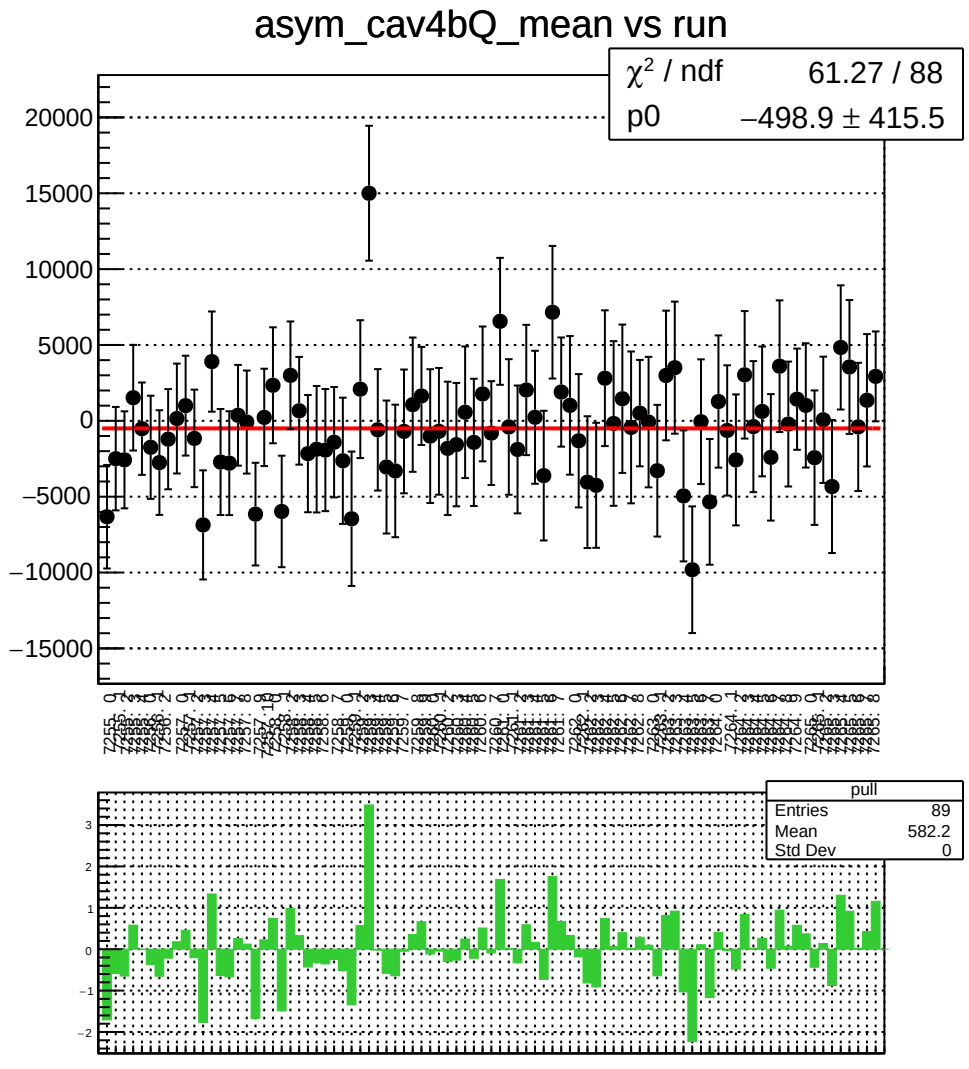

pull1D
Entries 89
Mean −0.01189
Std Dev 0.4173

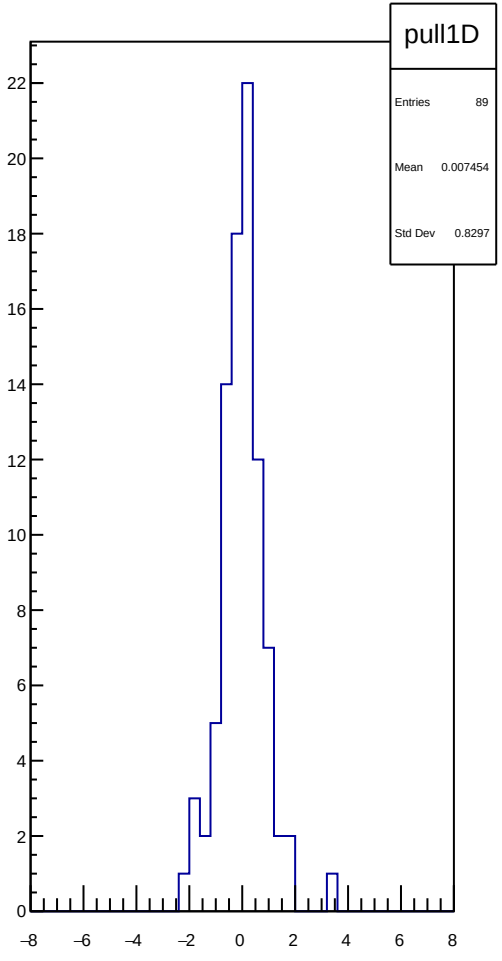

asym_bcm_dg_us_rms vs run
χ² / ndf 2.088e+04 / 88
p0 237.9 ± 0.1839
400
350
300
250
200

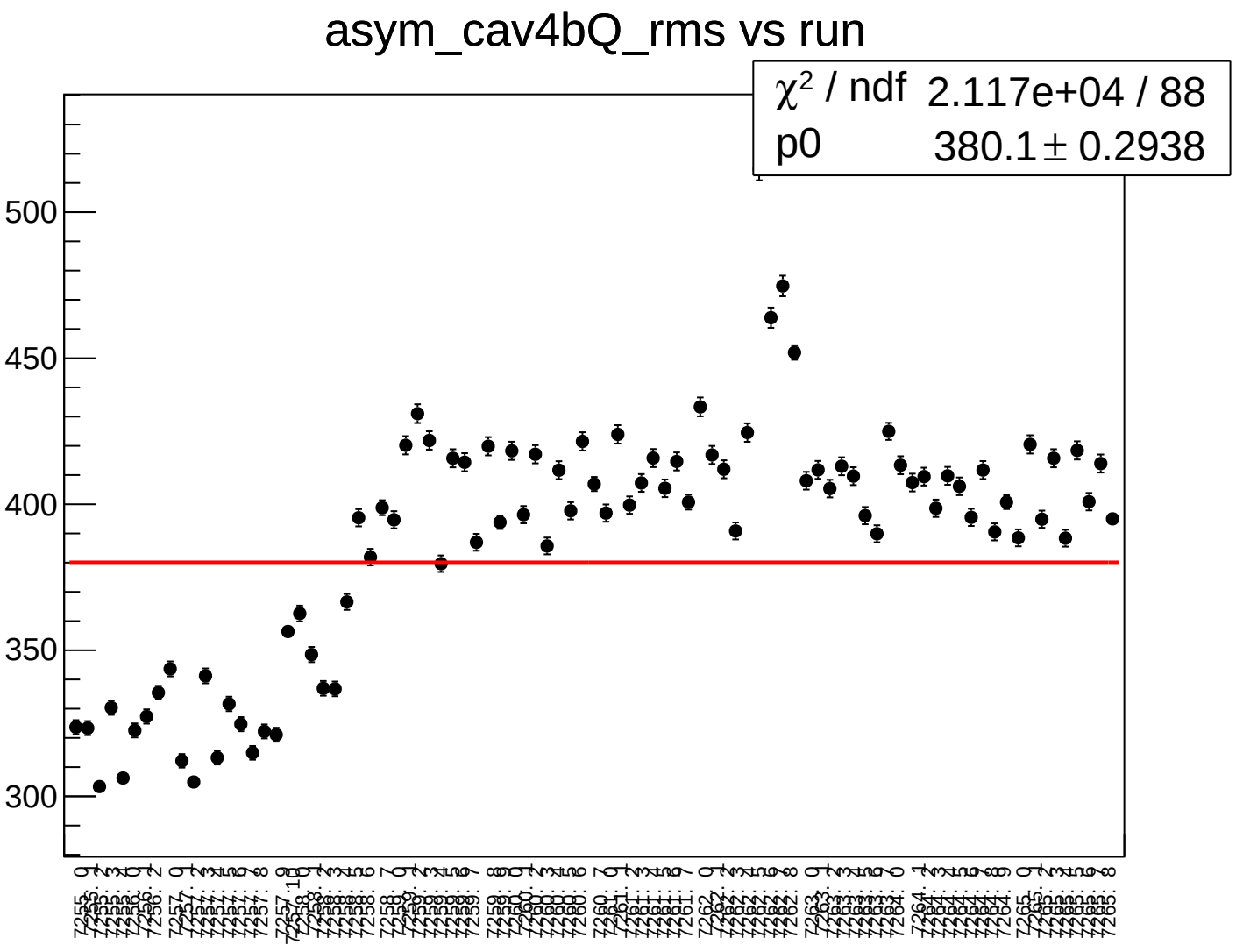

asym_bcm_dg_ds_mean vs run
χ² / ndf 12.52 / 88
p0 −24.46 ± 260.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 68.74
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

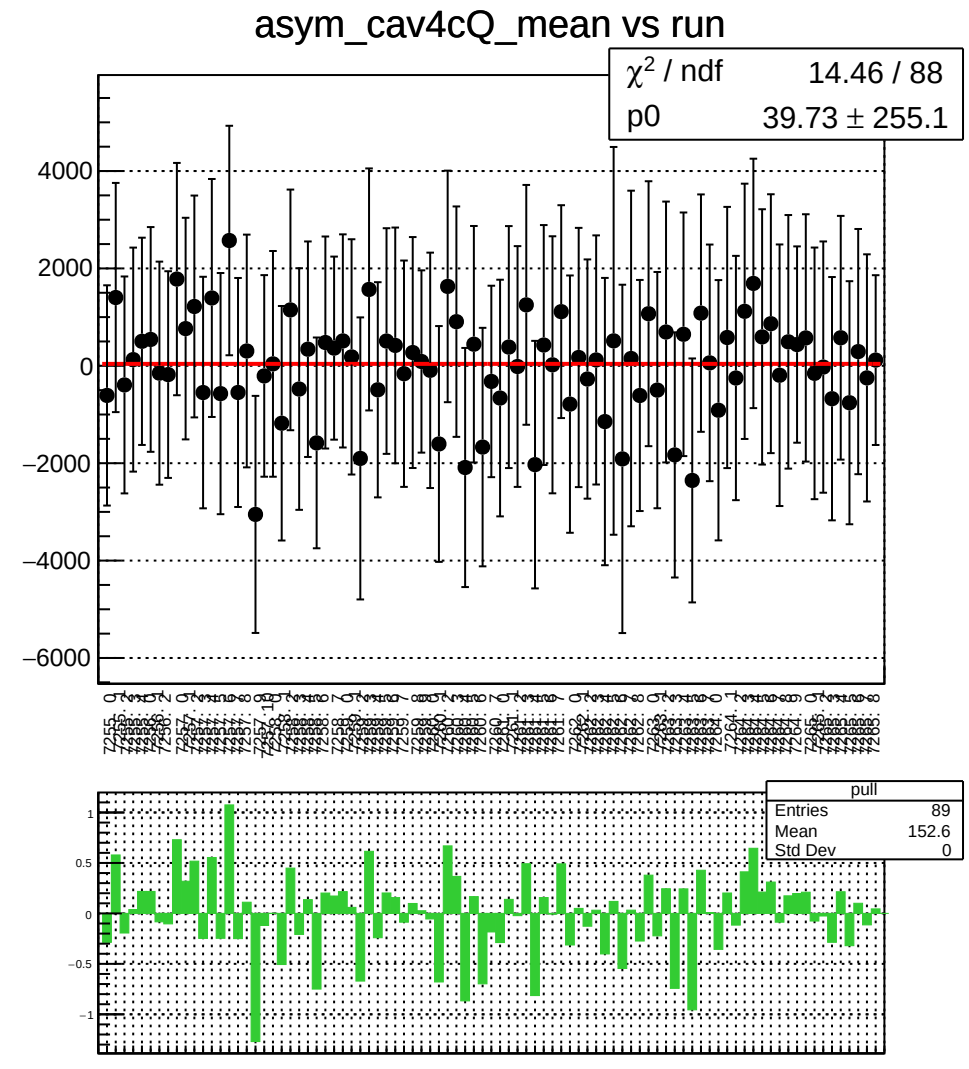

pull1D
Entries 89
Mean −0.007377
Std Dev 0.375
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

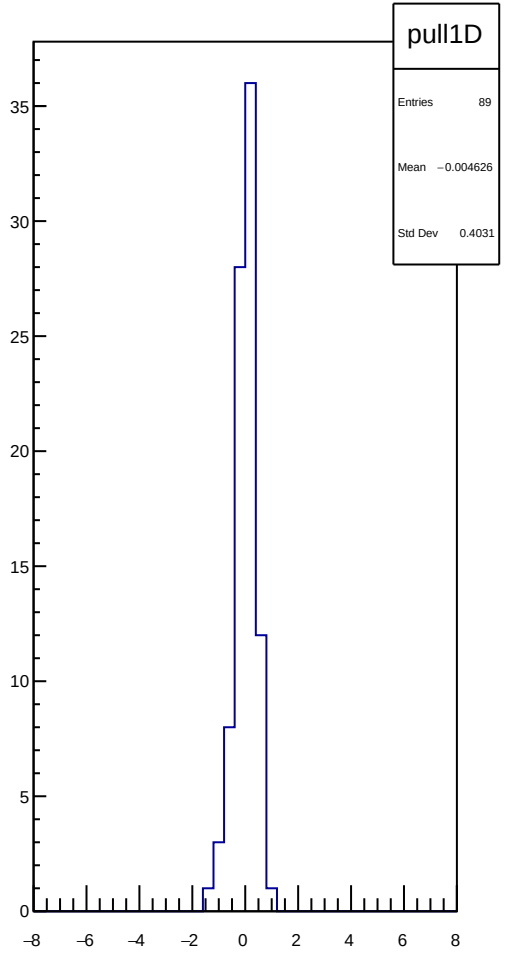

asym_bcm_dg_ds_rms vs run
χ² / ndf 2.254e+04 / 88
p0 238.5 ± 0.1844
400
350
300
250
200

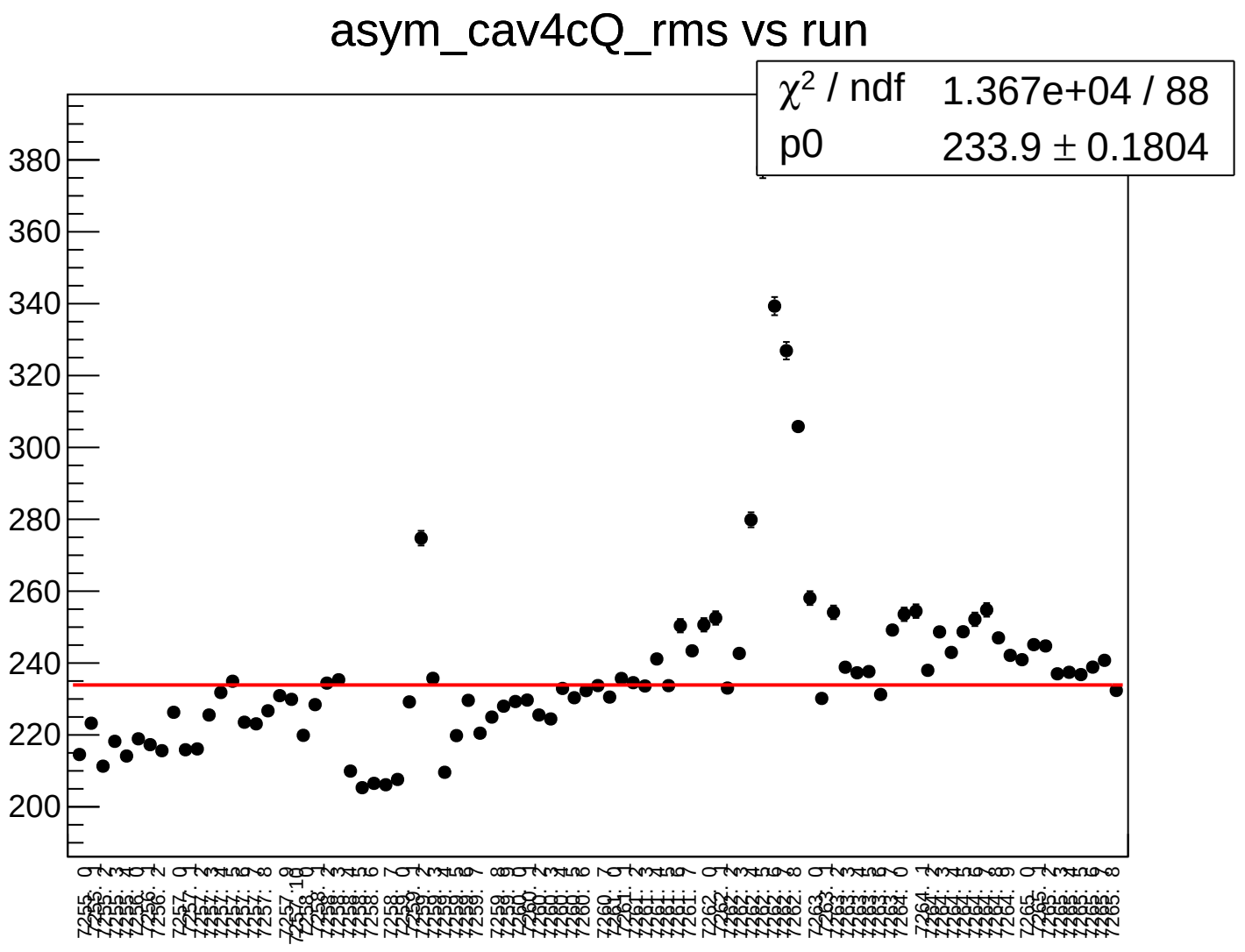

asym_cav4bQ_mean vs run
χ² / ndf 61.27 / 88
p0 −498.9 ± 415.5
pull
Entries 89
Mean 582.2
Std Dev 0

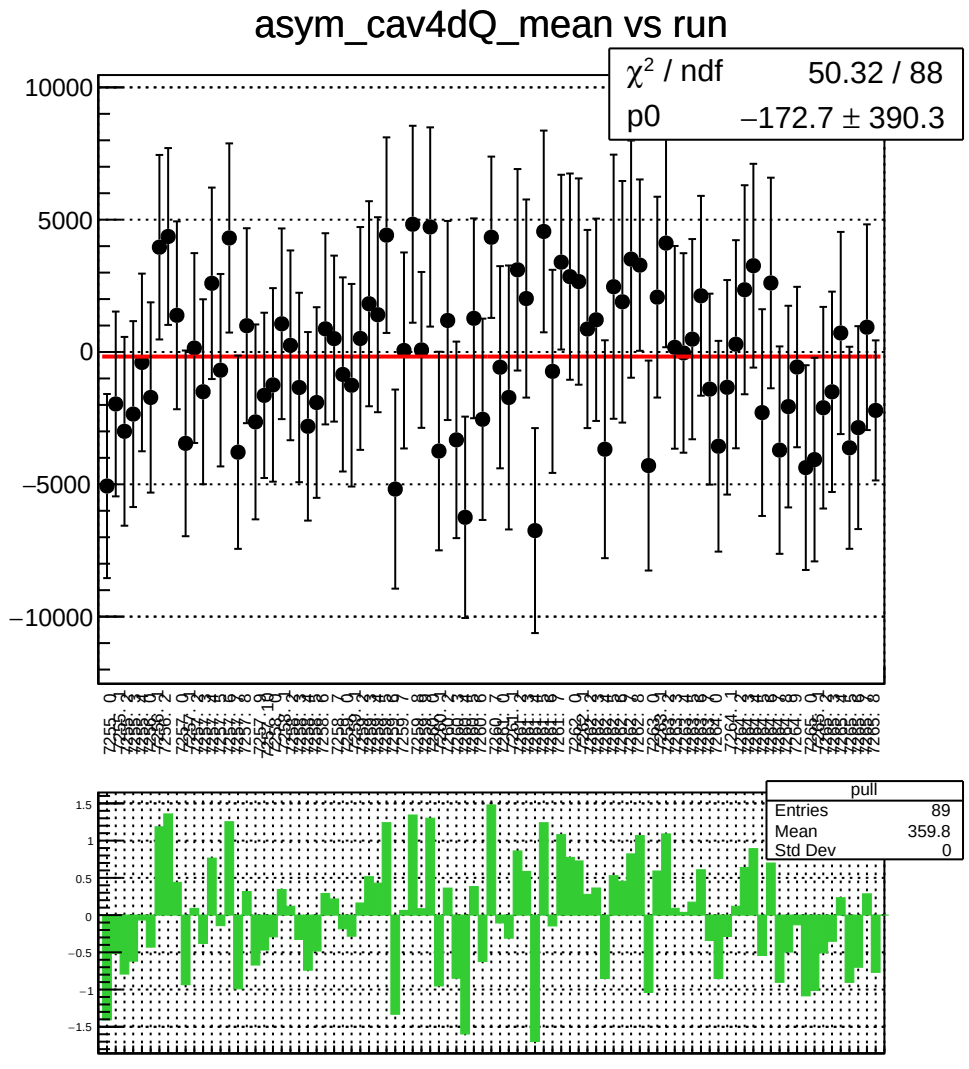

pull1D
Entries 89
Mean 0.007454
Std Dev 0.8297

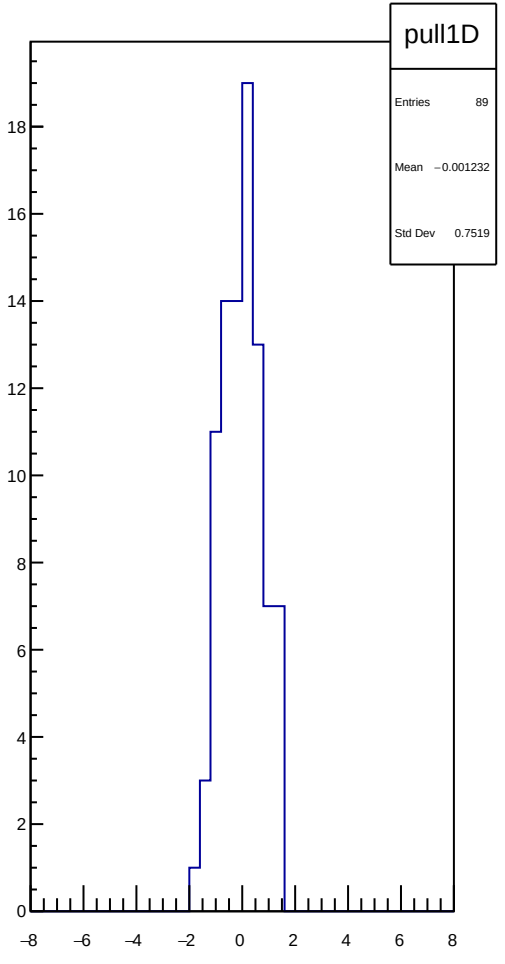

asym_cav4bQ_rms vs run
χ² / ndf 2.117e+04 / 88
p0 380.1 ± 0.2938
500
450
400
350
300

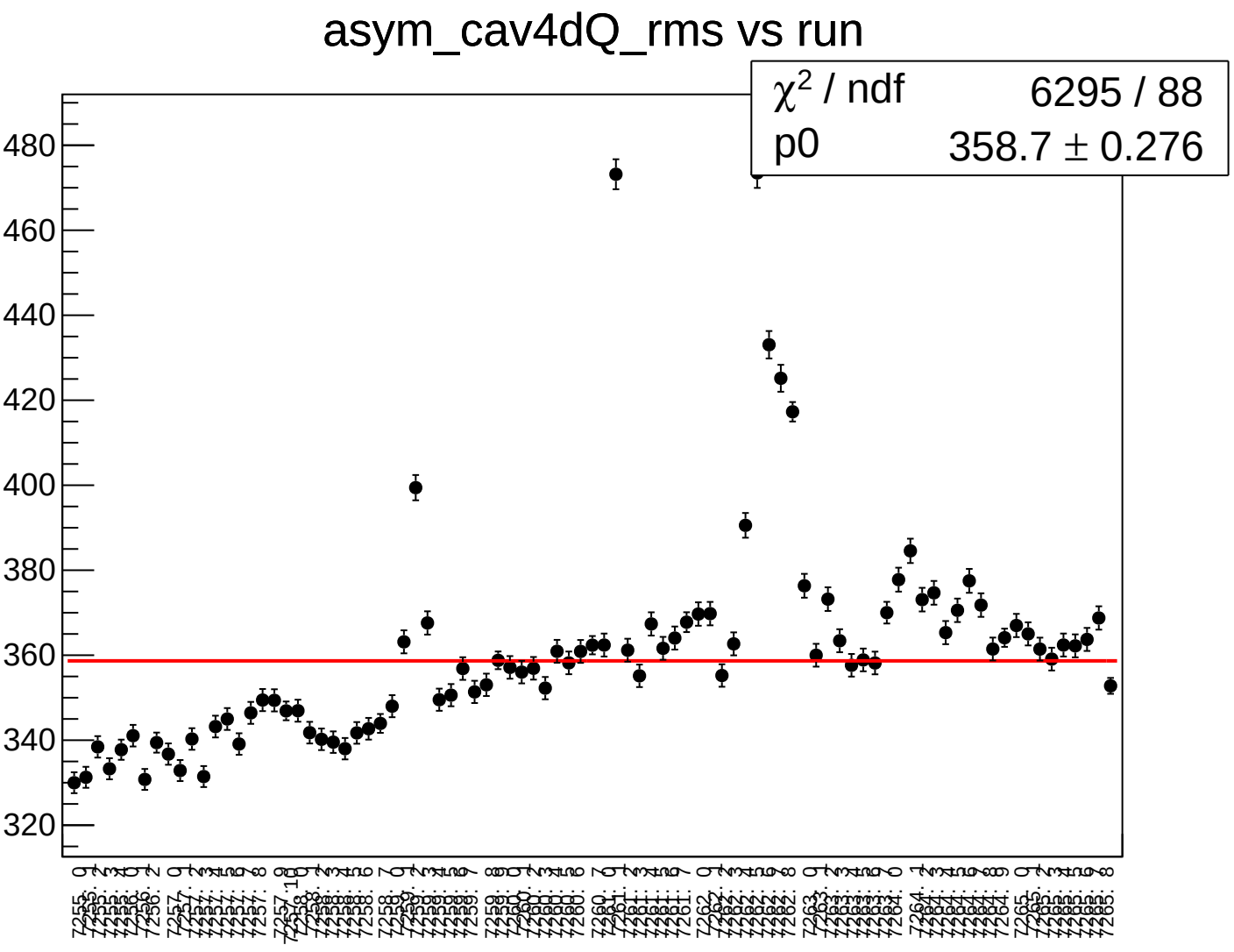

asym_cav4cQ_mean vs run
χ² / ndf 14.46 / 88
p0 39.73 ± 255.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 152.6
Std Dev 0
1
0.5
0
−0.5
−1

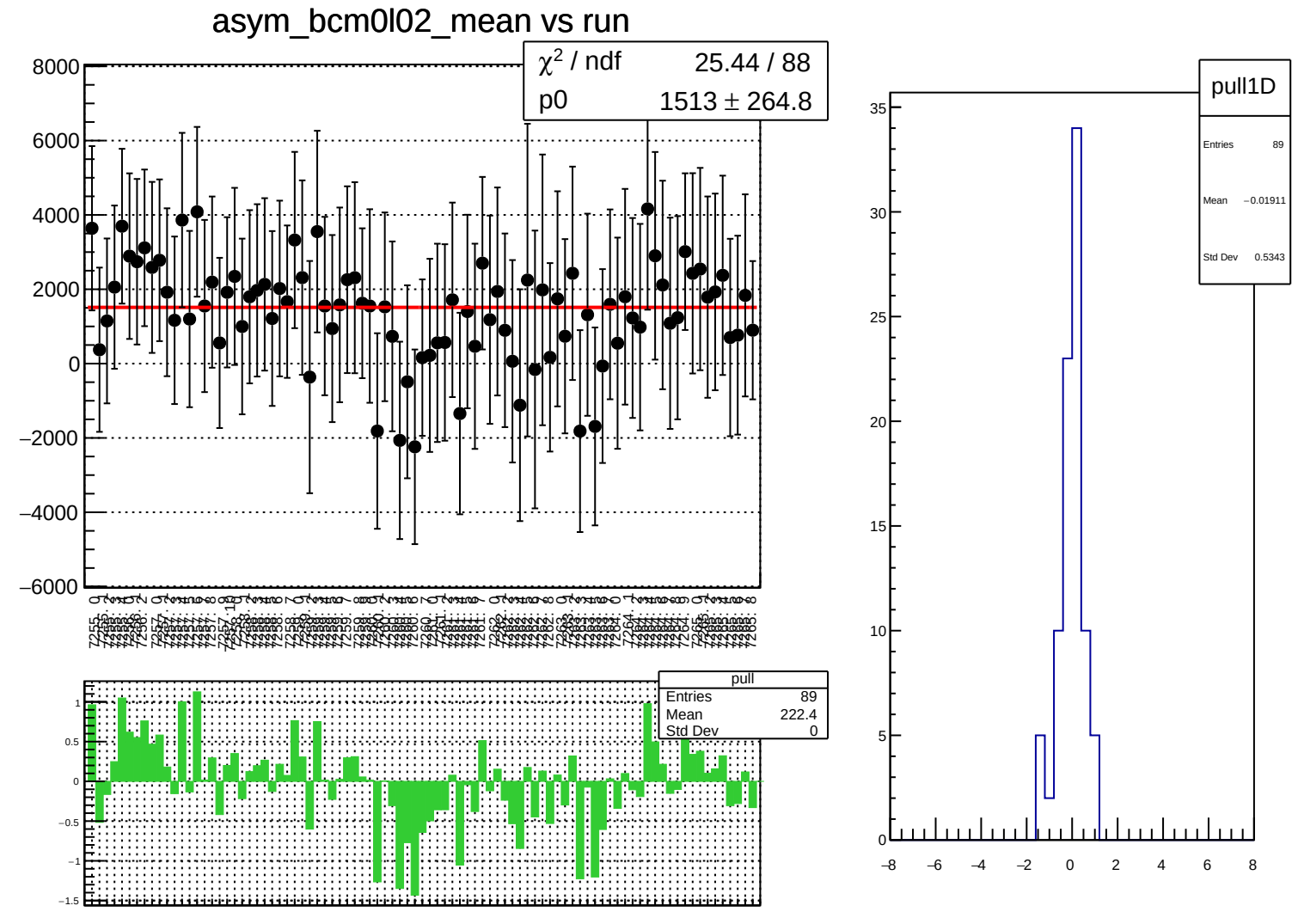

pull1D
Entries 89
Mean −0.004626
Std Dev 0.4031
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

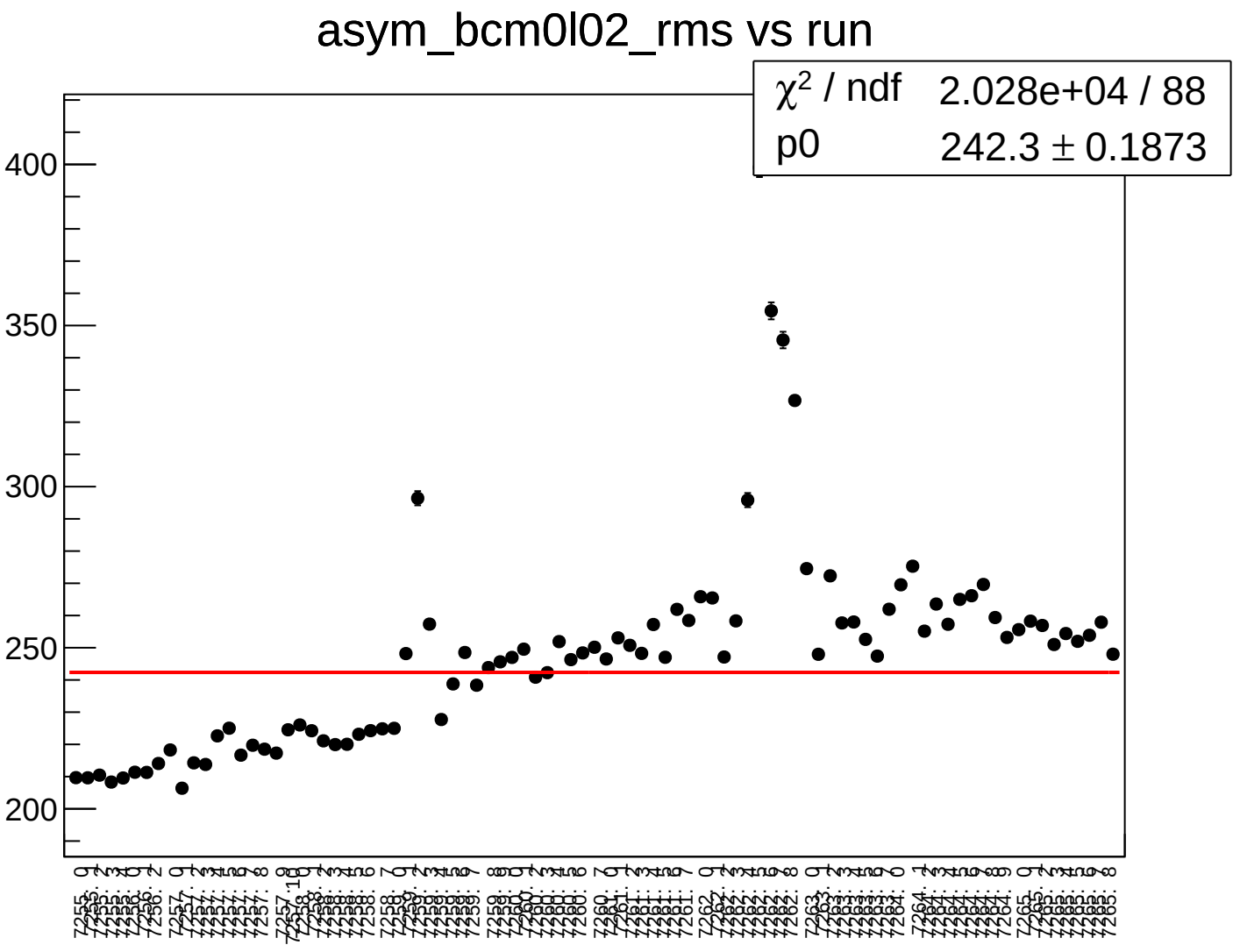

asym_cav4cQ_rms vs run
χ² / ndf 1.367e+04 / 88
p0 233.9 ± 0.1804
380
360
340
320
300
280
260
240
220
200

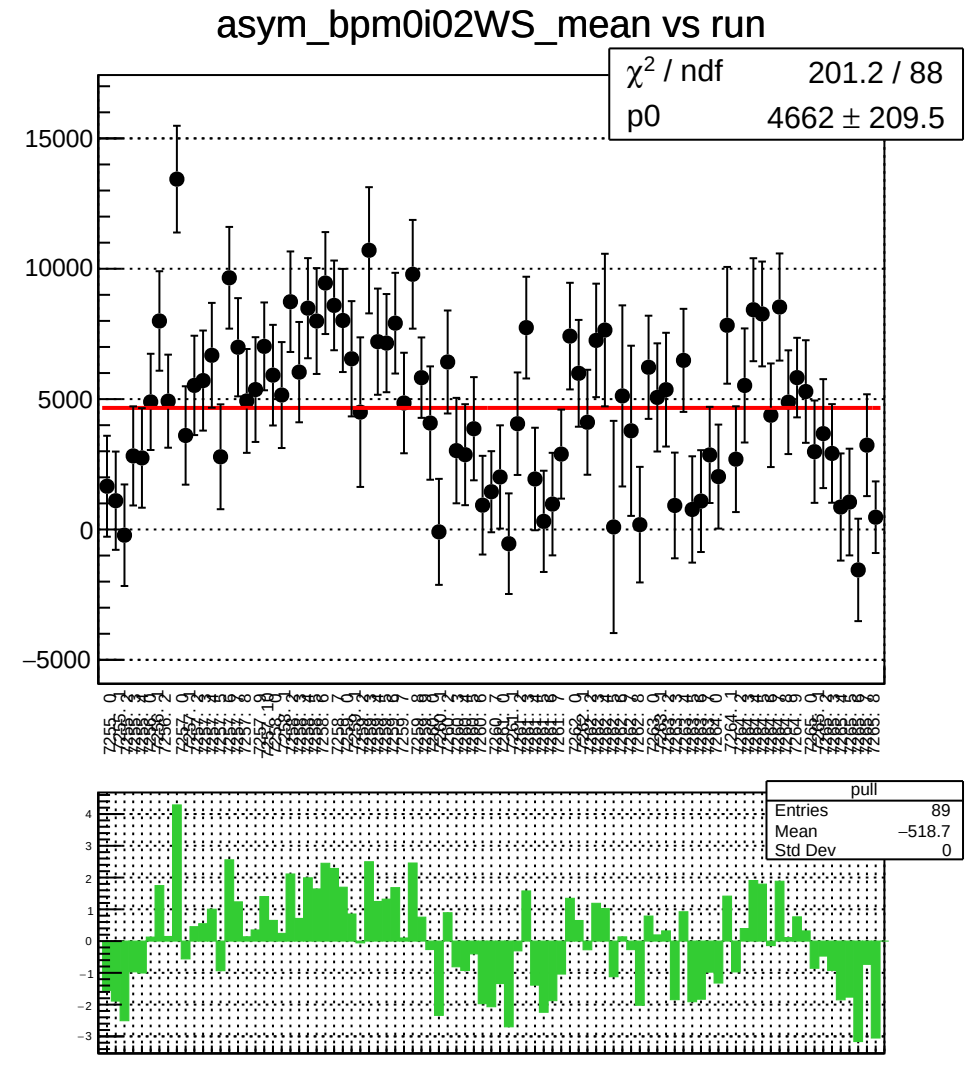

asym_cav4dQ_mean vs run
χ² / ndf 50.32 / 88
p0 −172.7 ± 390.3
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 359.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

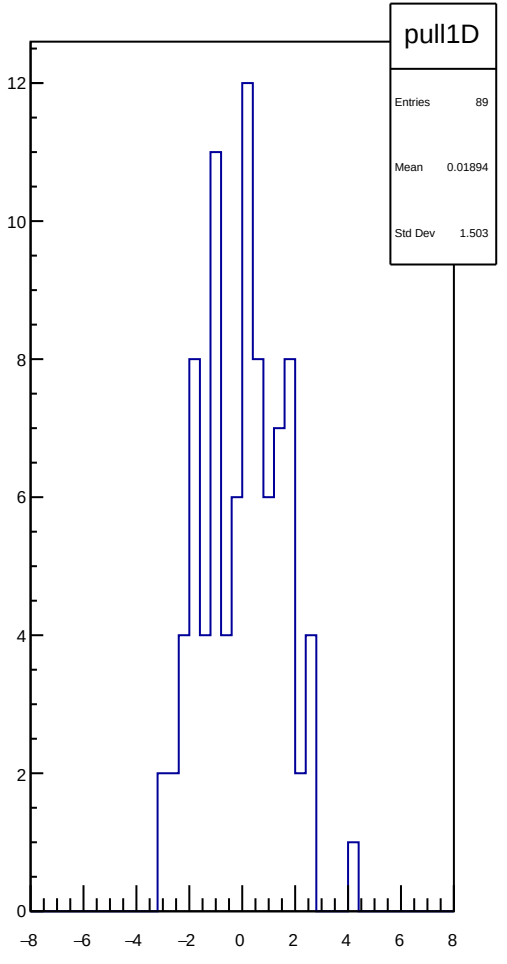

pull1D
Entries 89
Mean −0.001232
Std Dev 0.7519
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

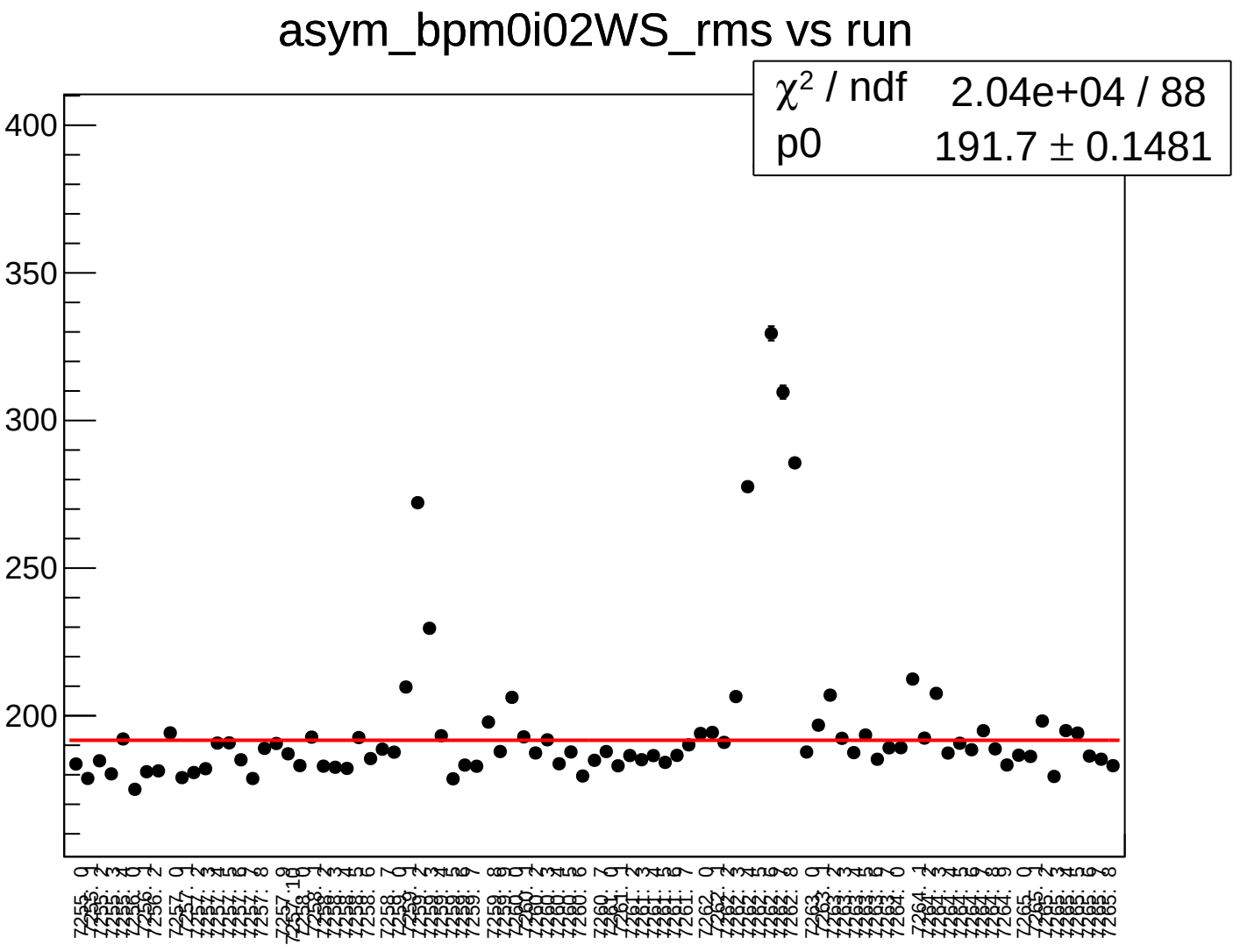

asym_cav4dQ_rms vs run
χ² / ndf 6295 / 88
p0 358.7 ± 0.276
480
460
440
420
400
380
360
340
320

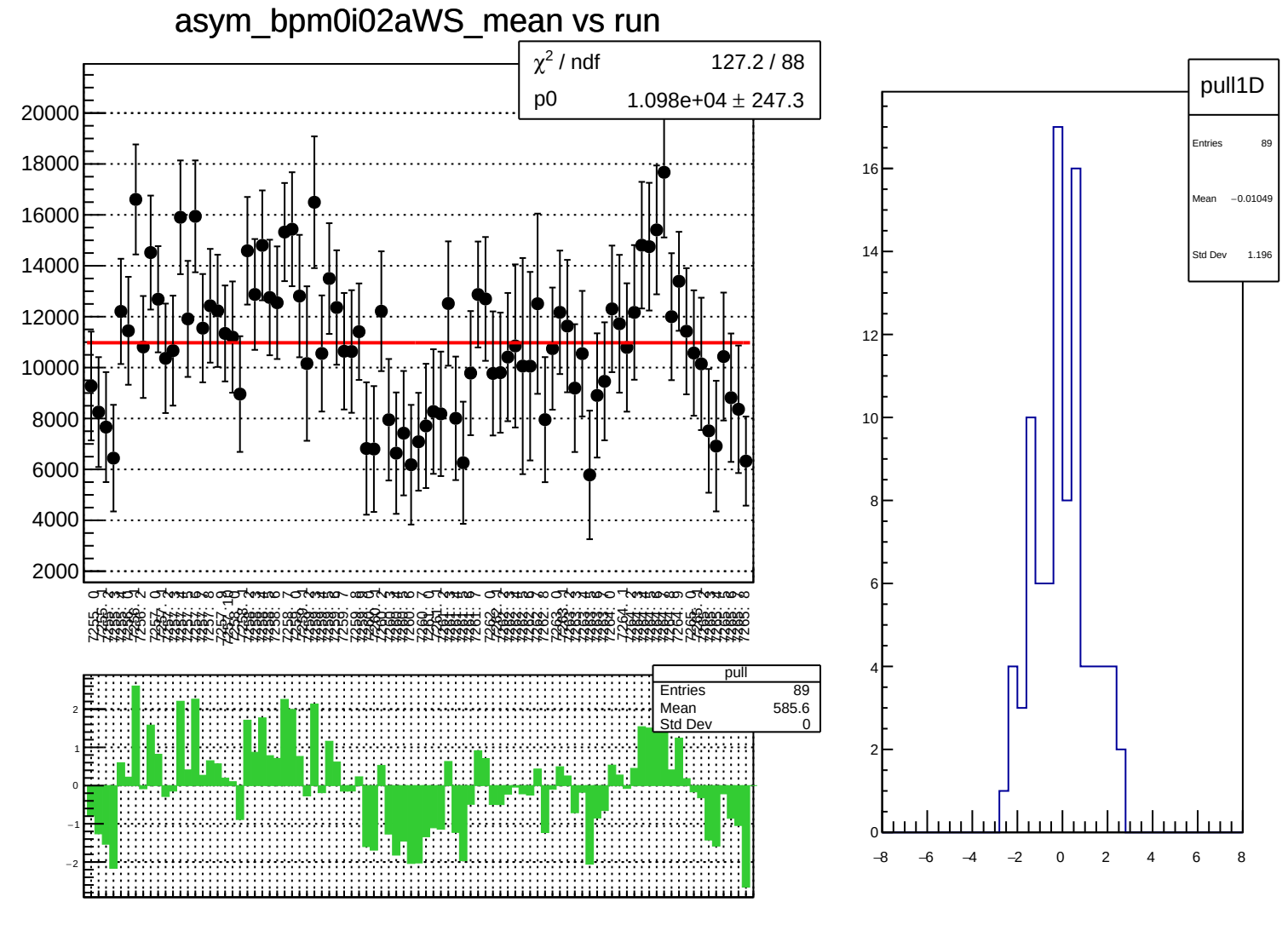

asym_bcm0l02_mean vs run
χ² / ndf 25.44 / 88
p0 1513 ± 264.8
pull
Entries 89
Mean 222.4
Std Dev 0
pull1D
Entries 89
Mean −0.01911
Std Dev 0.5343

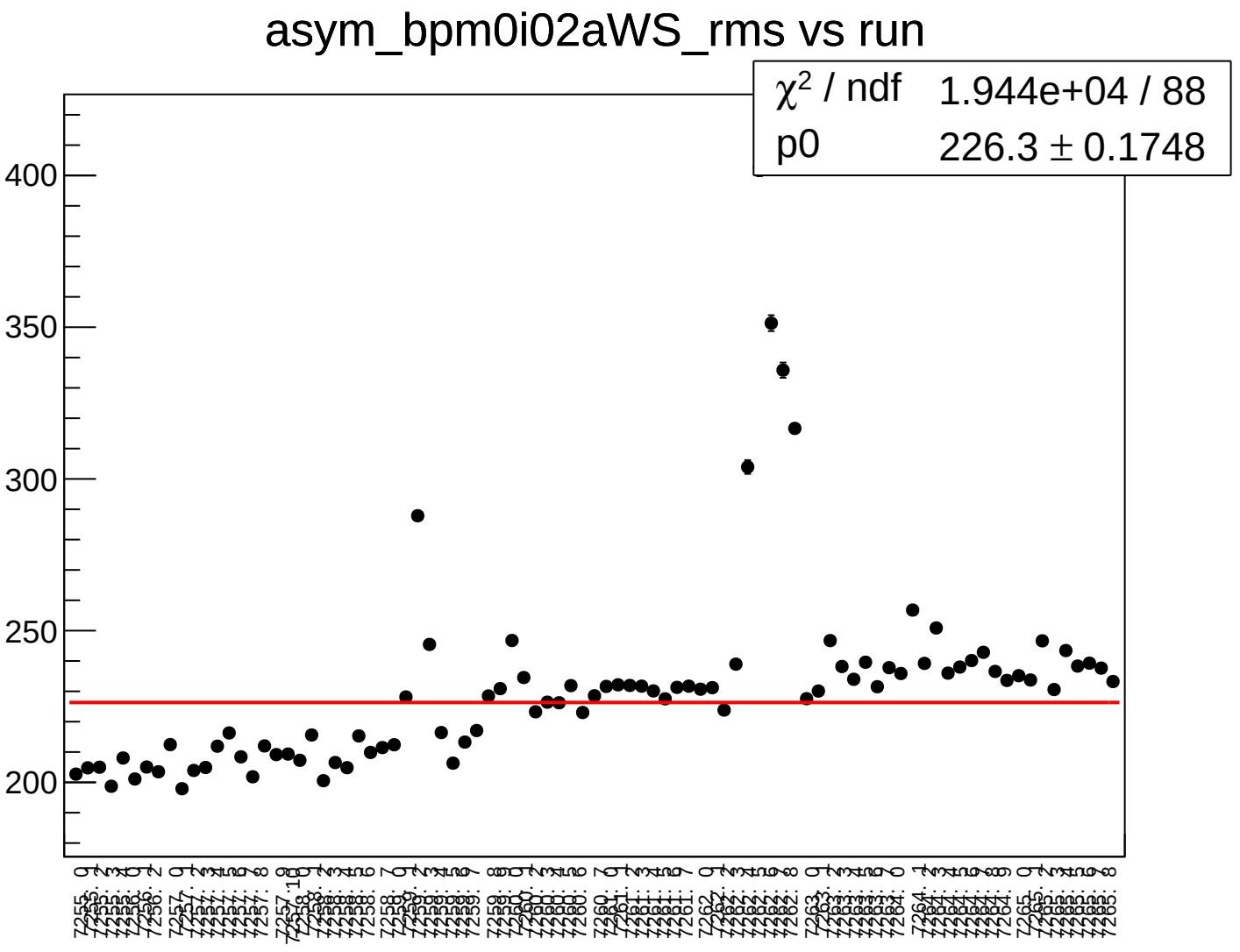

asym_bcm0l02_rms vs run
χ^2 / ndf 2.028e+04 / 88
p0 242.3 ± 0.1873
400
350
300
250
200

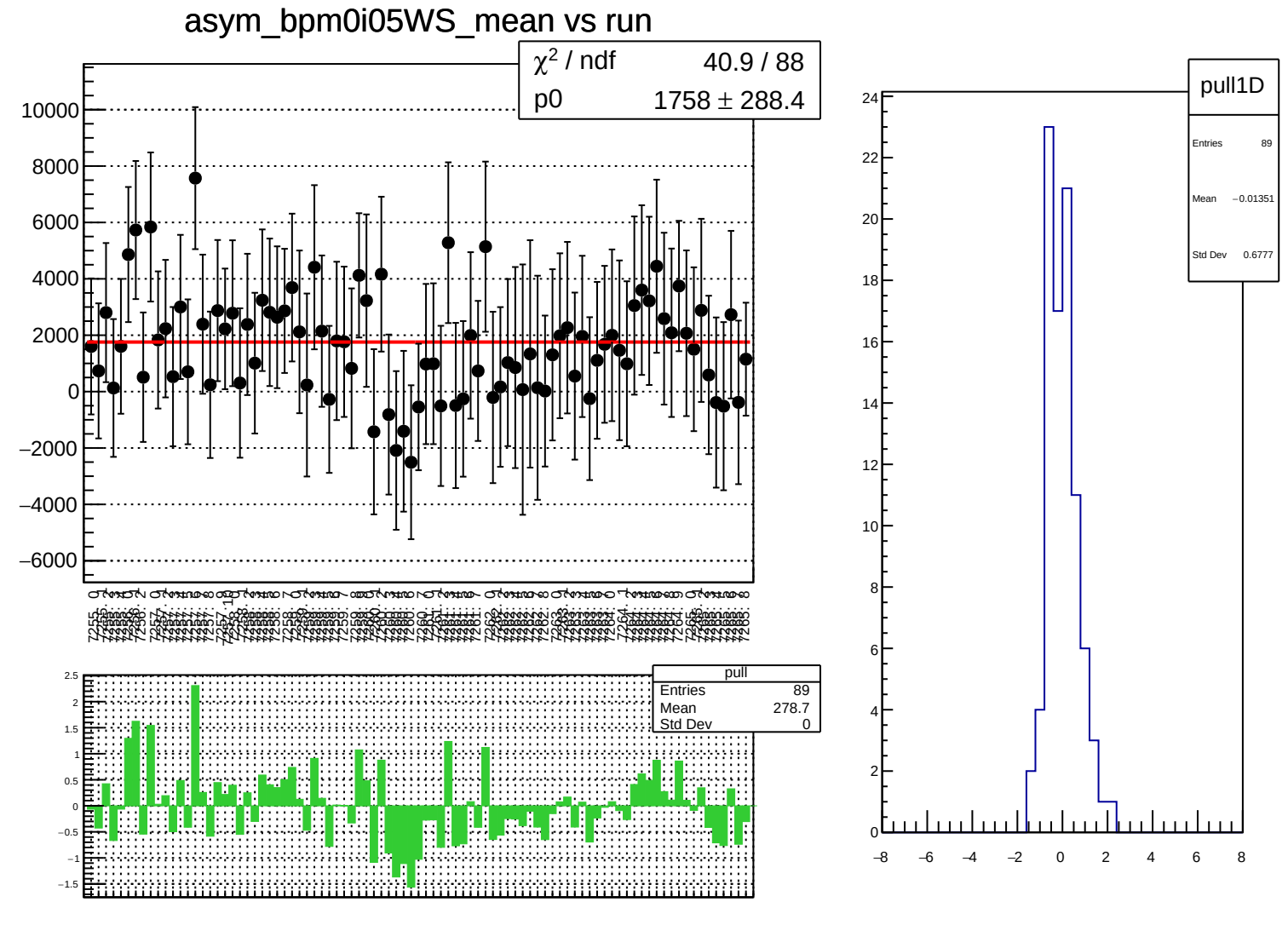

asym_bpm0i02WS_mean vs run
χ² / ndf 201.2 / 88
p0 4662 ± 209.5
15000
10000
5000
0
−5000
pull
Entries 89
Mean −518.7
Std Dev 0
4
3
2
1
0
−1
−2
−3

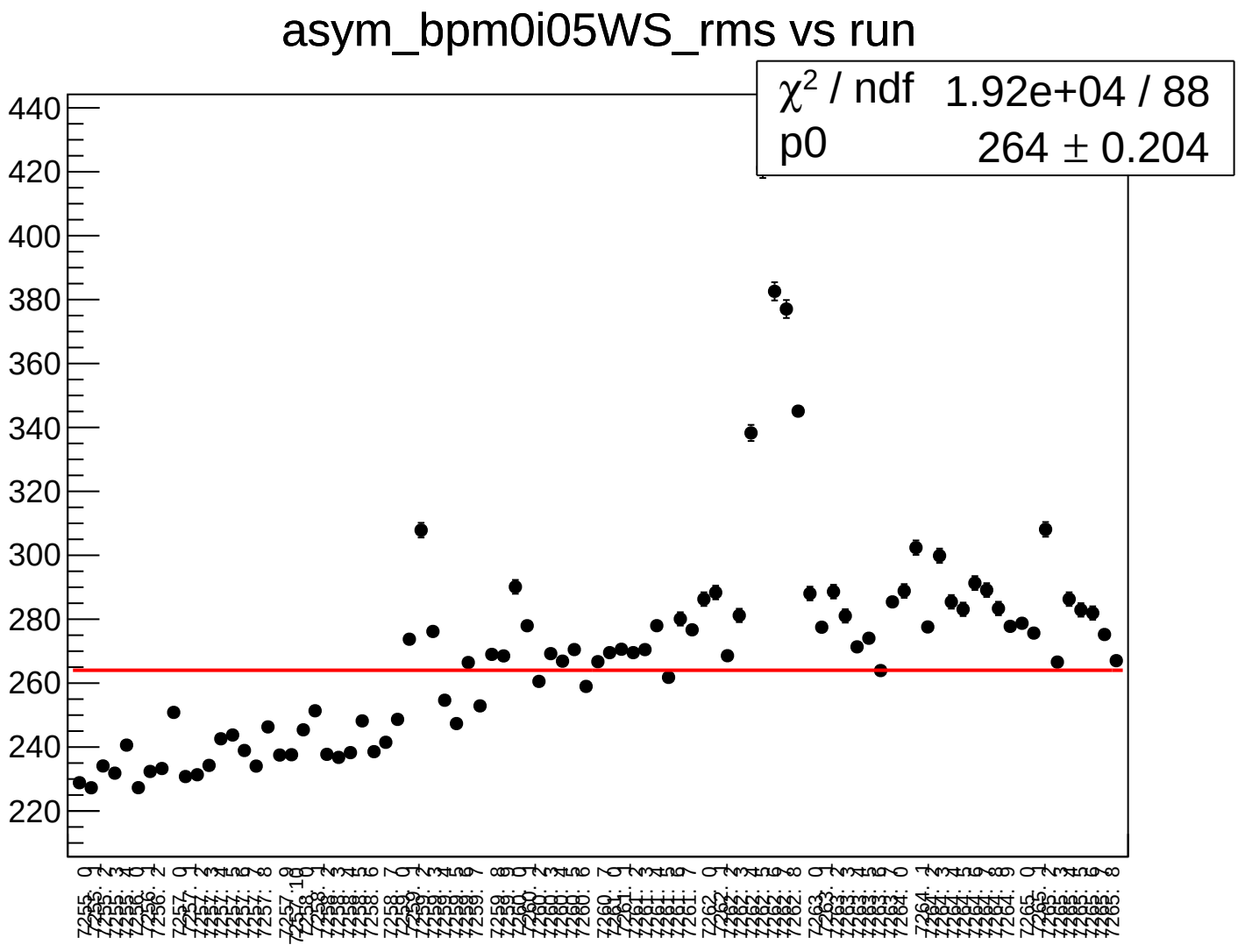

pull1D
Entries 89
Mean 0.01894
Std Dev 1.503
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

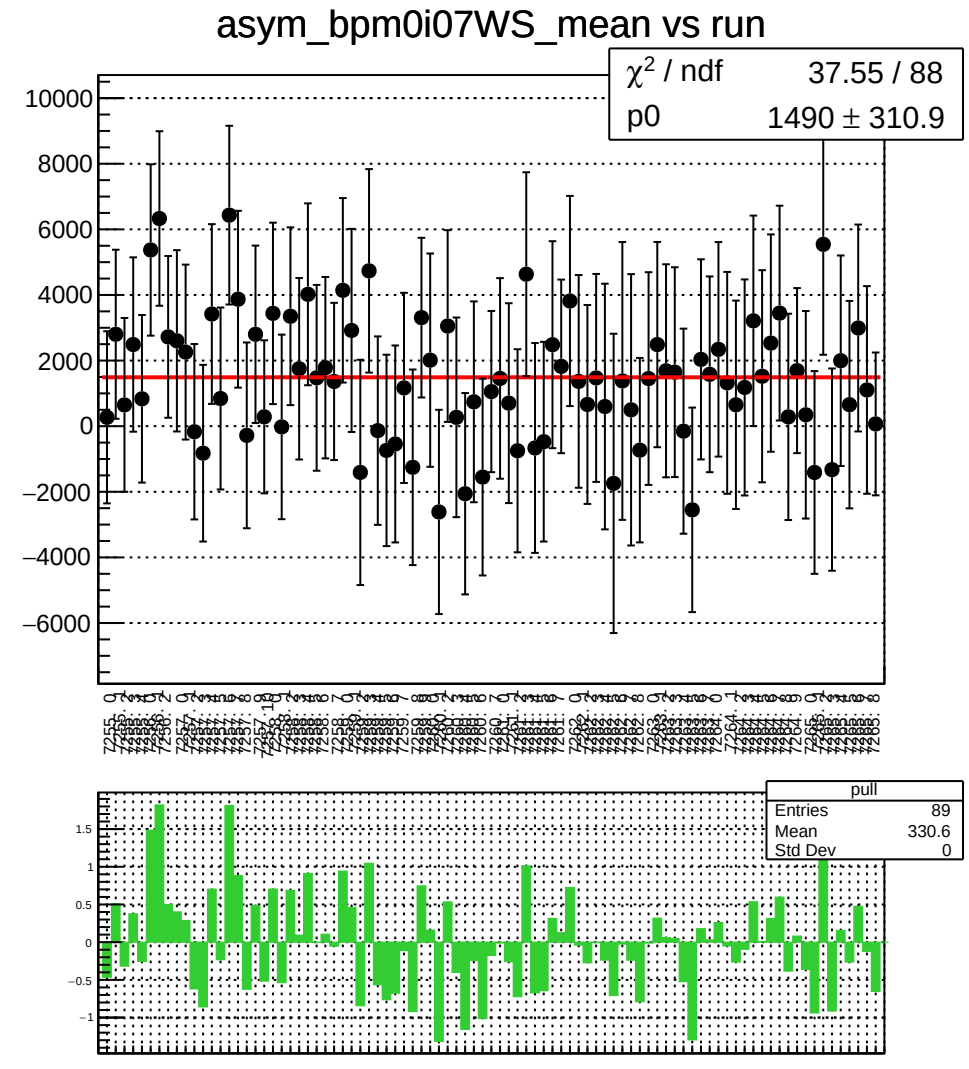

asym_bpm0i02WS_rms vs run
χ² / ndf 2.04e+04 / 88
p0 191.7 ± 0.1481
400
350
300
250
200

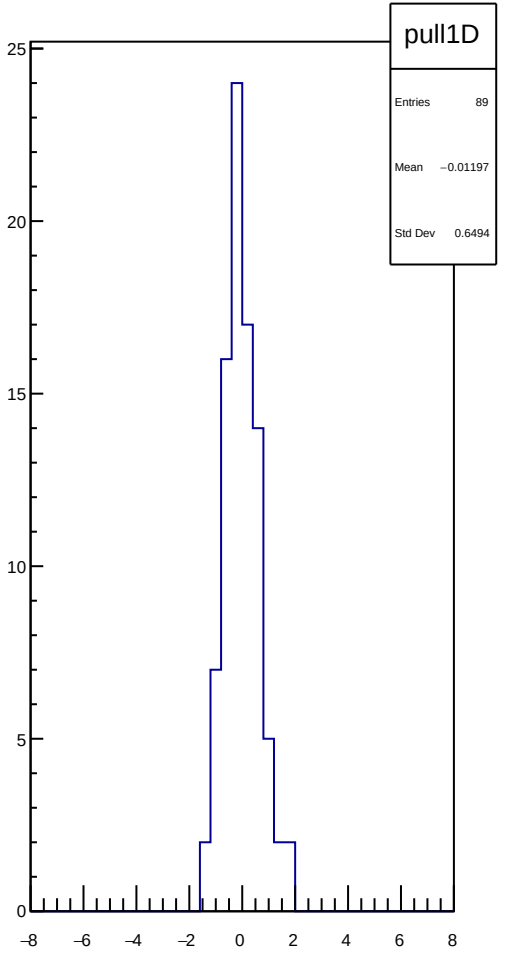

asym_bpm0i02aWS_mean vs run
χ² / ndf 127.2 / 88
p0 1.098e+04 ± 247.3
pull
Entries 89
Mean 585.6
Std Dev 0
pull1D
Entries 89
Mean −0.01049
Std Dev 1.196

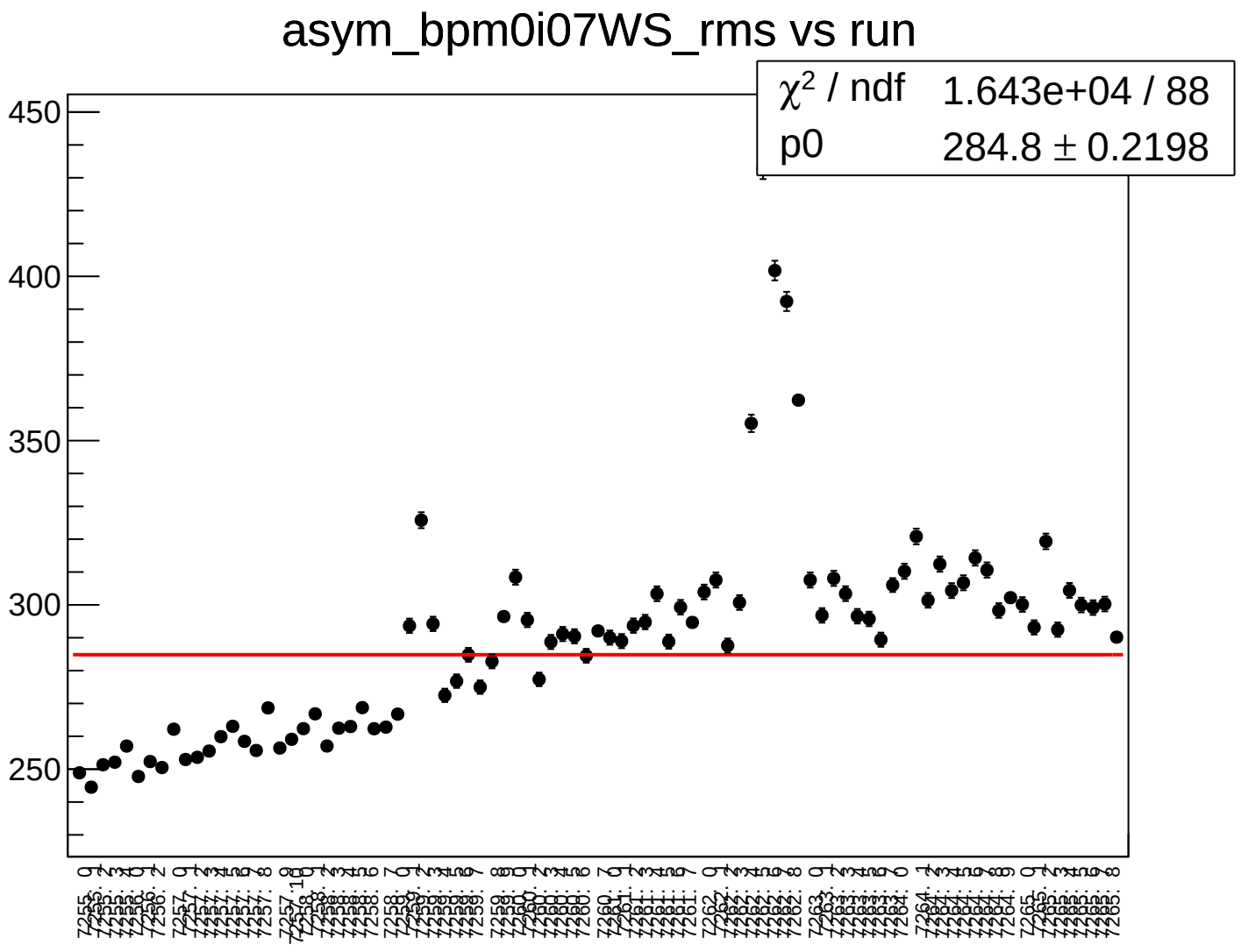

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.944e+04 / 88
p0 226.3 ± 0.1748
400
350
300
250
200

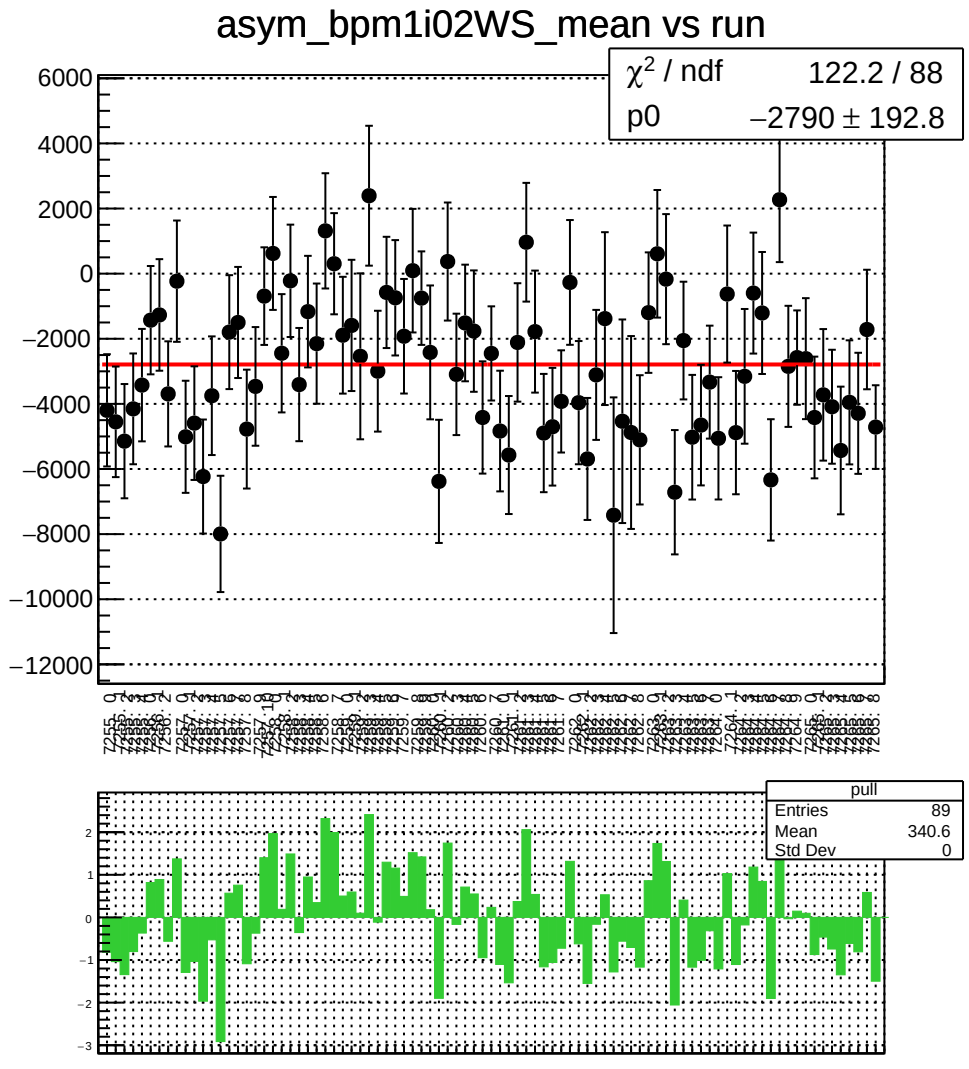

asym_bpm0i05WS_mean vs run
χ^2 / ndf 40.9 / 88
p0 1758 ± 288.4
pull
Entries 89
Mean 278.7
Std Dev 0
pull1D
Entries 89
Mean −0.01351
Std Dev 0.6777

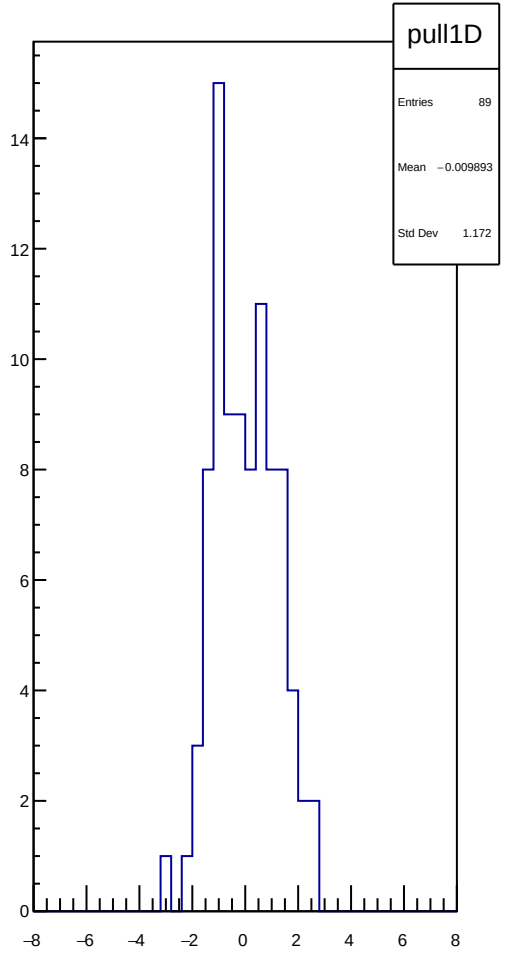

asym_bpm0i05WS_rms vs run
χ^2 / ndf 1.92e+04 / 88
p0 264 ± 0.204
440
420
400
380
360
340
320
300
280
260
240
220

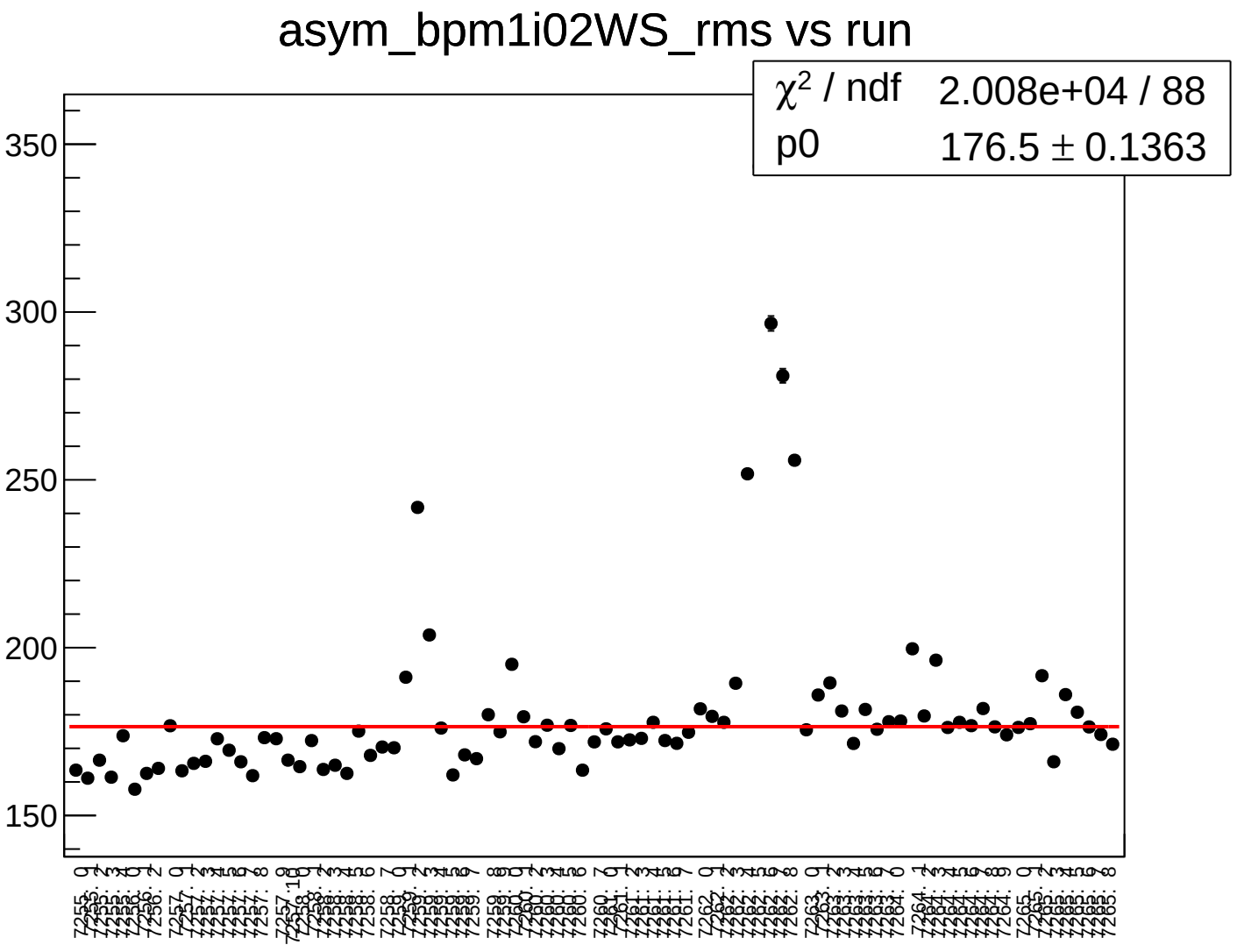

asym_bpm0i07WS_mean vs run
χ² / ndf 37.55 / 88
p0 1490 ± 310.9
pull
Entries 89
Mean 330.6
Std Dev 0

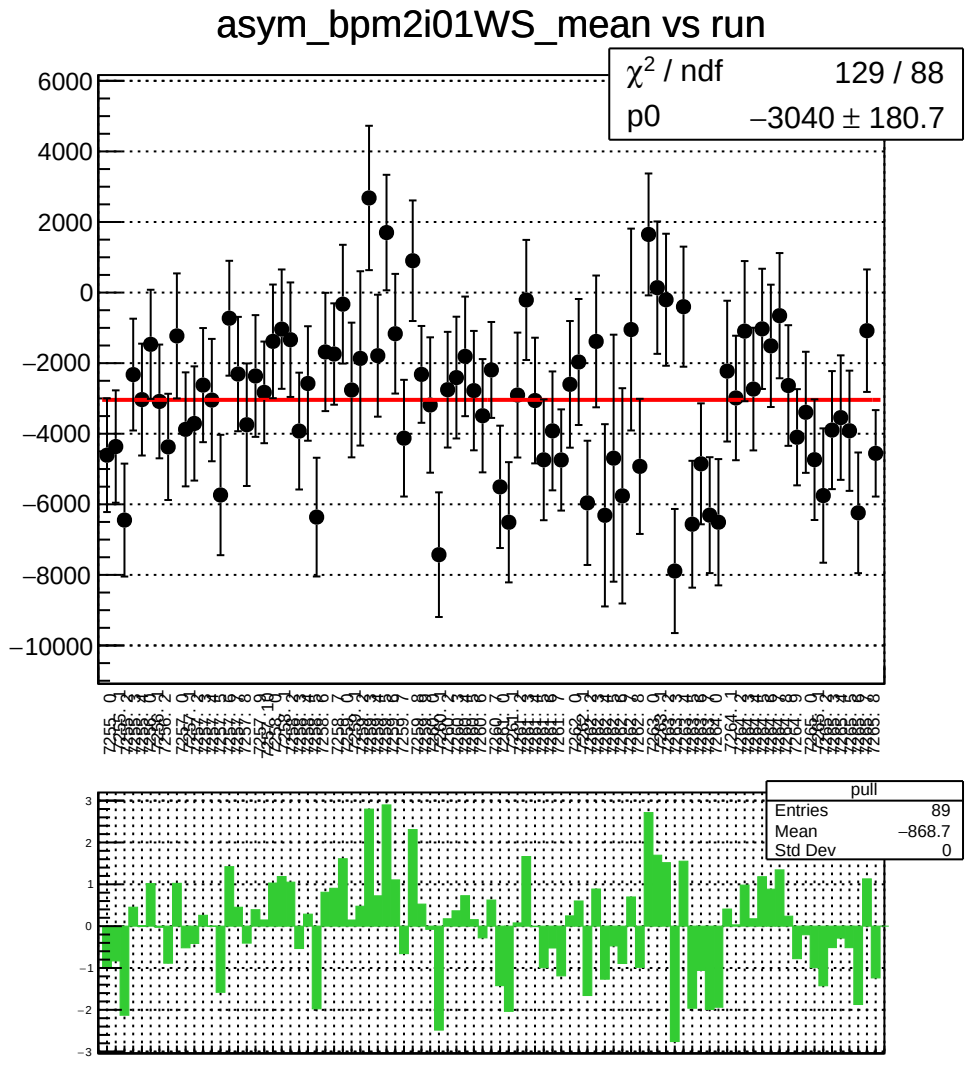

pull1D
Entries 89
Mean −0.01197
Std Dev 0.6494

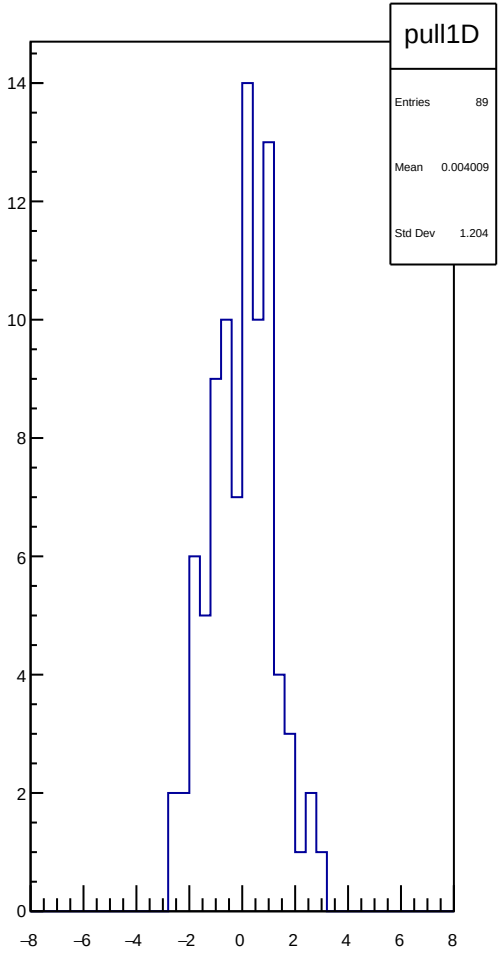

asym_bpm0i07WS_rms vs run
χ² / ndf 1.643e+04 / 88
p0 284.8 ± 0.2198
450
400
350
300
250

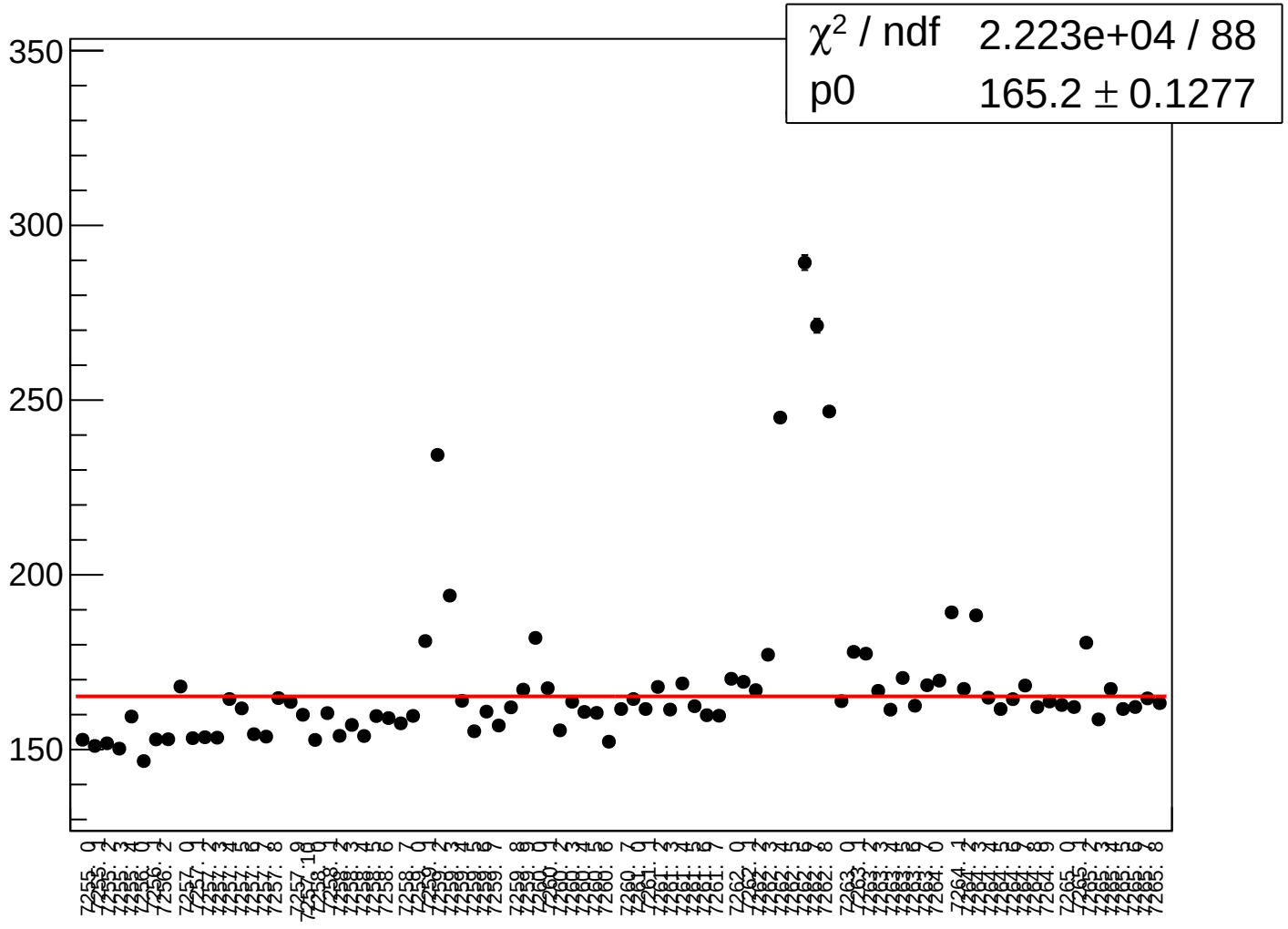

asym_bpm1i02WS_mean vs run
χ² / ndf 122.2 / 88
p0 −2790 ± 192.8
pull
Entries 89
Mean 340.6
Std Dev 0

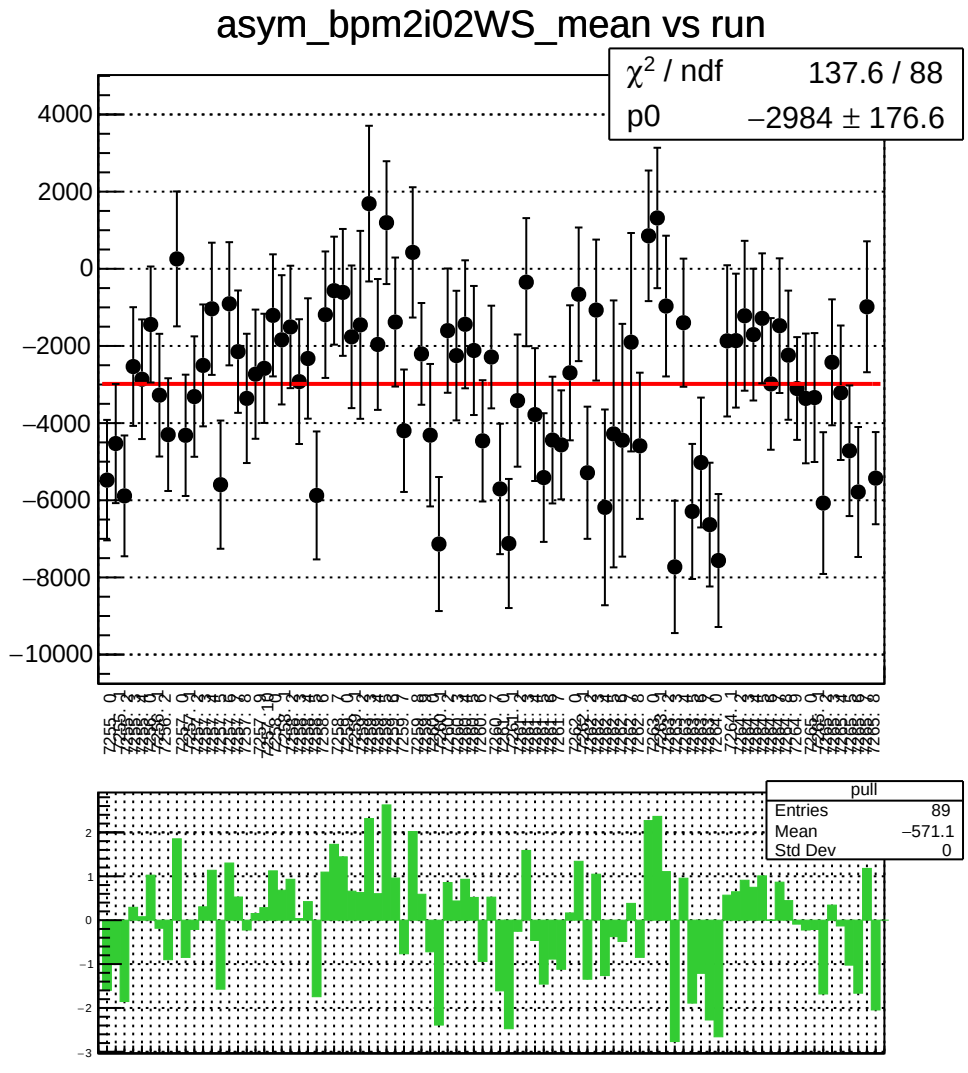

pull1D
Entries 89
Mean −0.009893
Std Dev 1.172

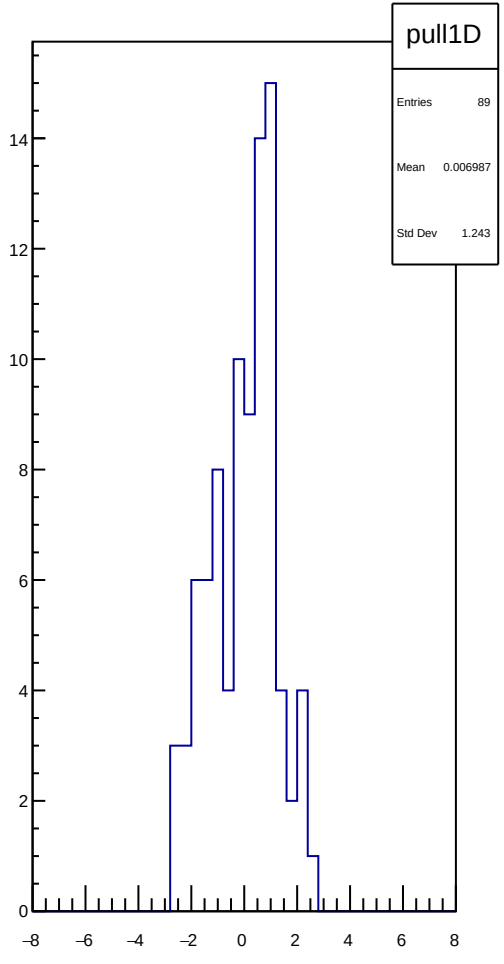

asym_bpm1i02WS_rms vs run
χ² / ndf 2.008e+04 / 88
p0 176.5 ± 0.1363
350
300
250
200
150

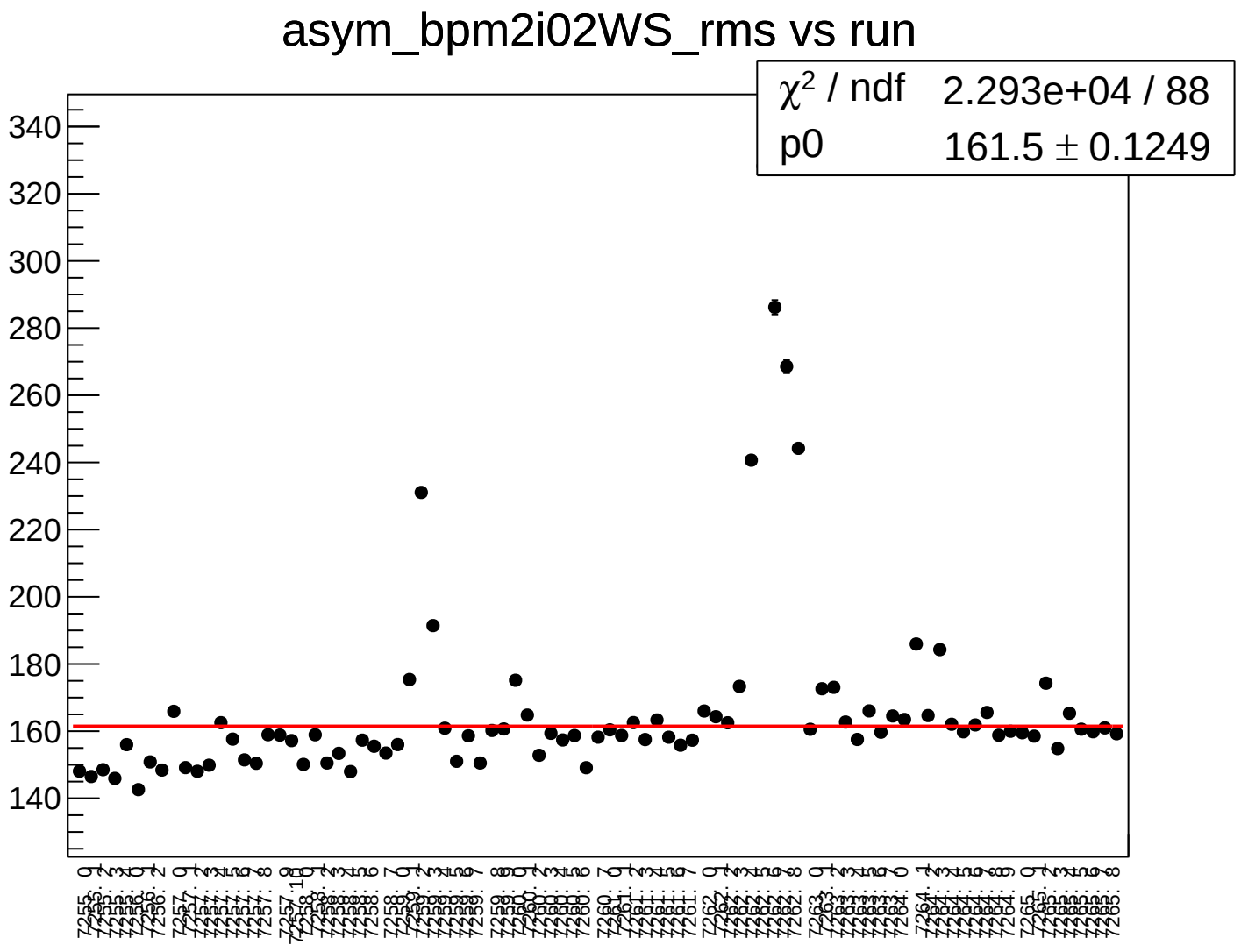

asym_bpm2i01WS_mean vs run
χ² / ndf 129 / 88
p0 −3040 ± 180.7
pull
Entries 89
Mean −868.7
Std Dev 0

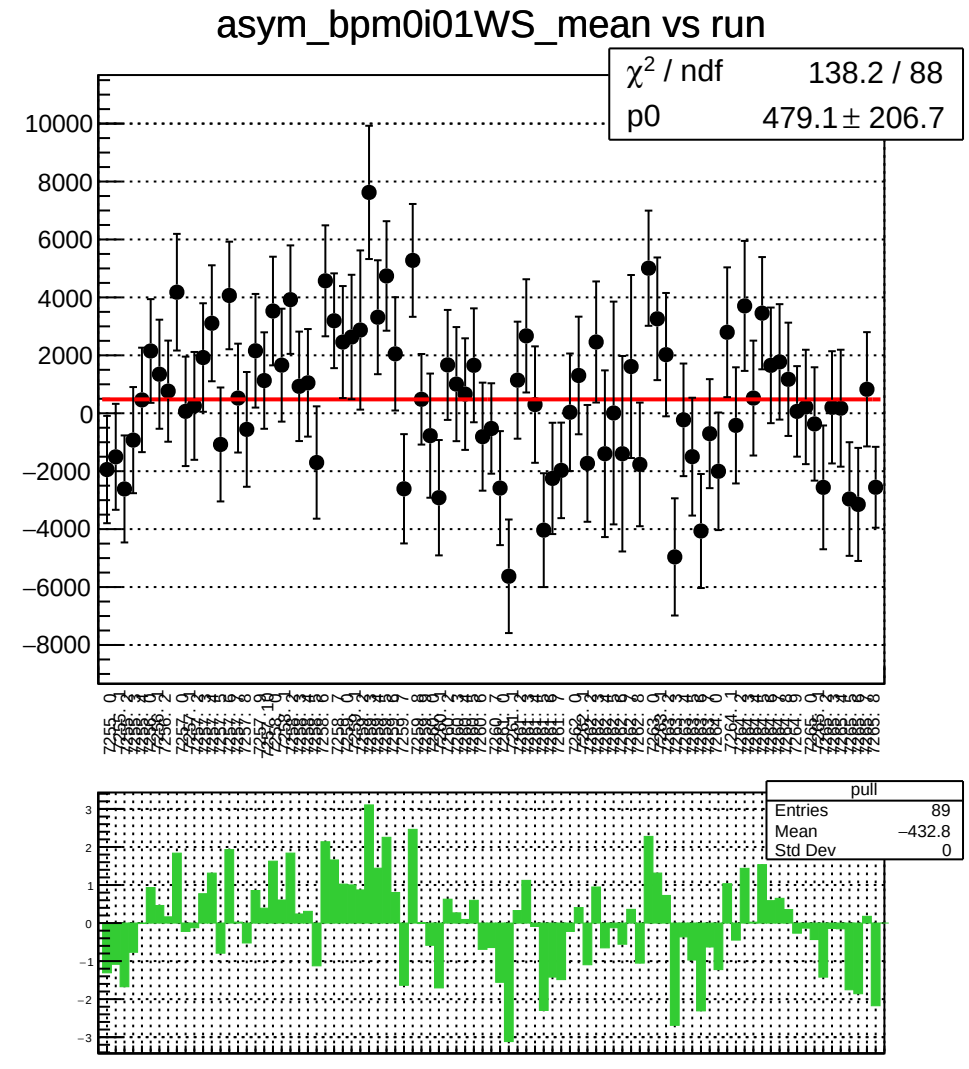

pull1D
Entries 89
Mean 0.004009
Std Dev 1.204

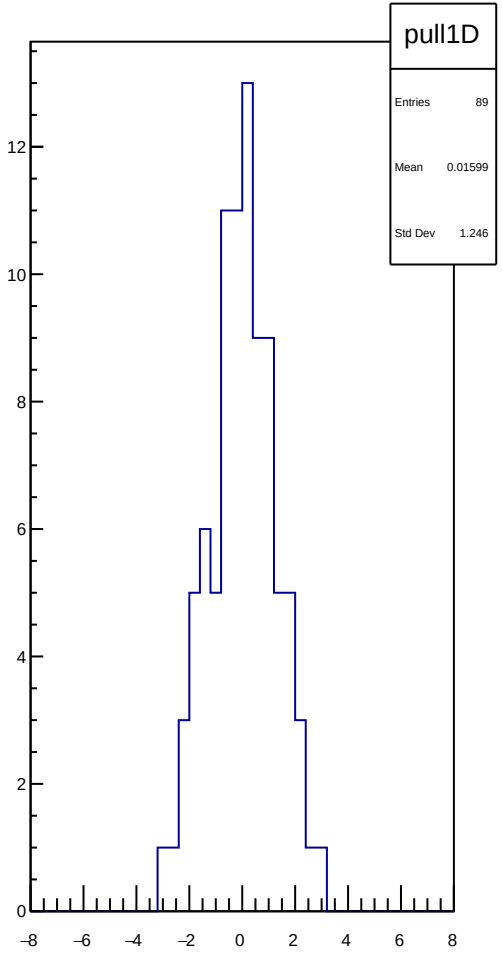

asym_bpm2i01WS_rms vs run
χ² / ndf 2.223e+04 / 88
p0 165.2 ± 0.1277
350
300
250
200
150

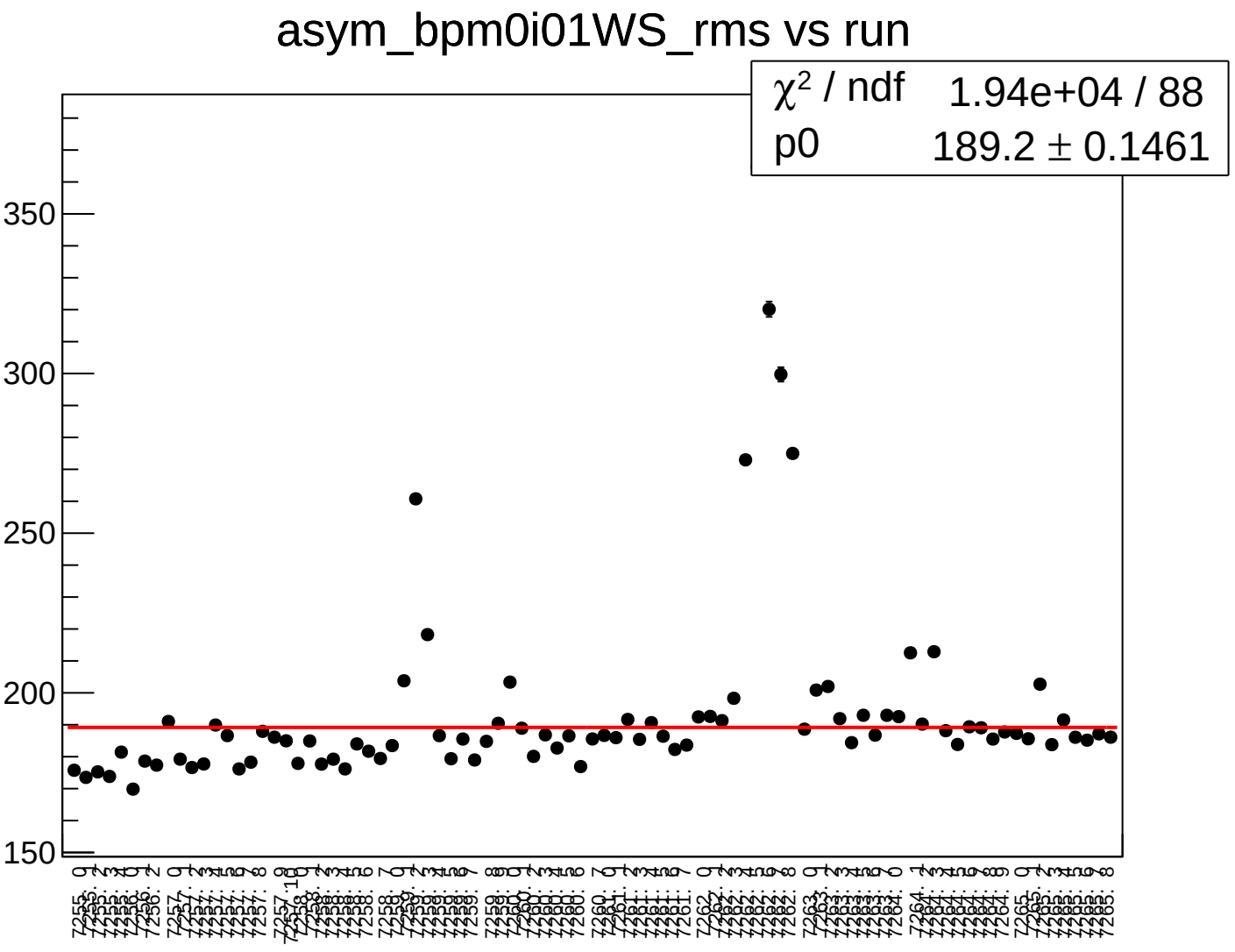

asym_bpm2i02WS_mean vs run
χ² / ndf 137.6 / 88
p0 −2984 ± 176.6
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 89
Mean −571.1
Std Dev 0
2
1
0
−1
−2
−3

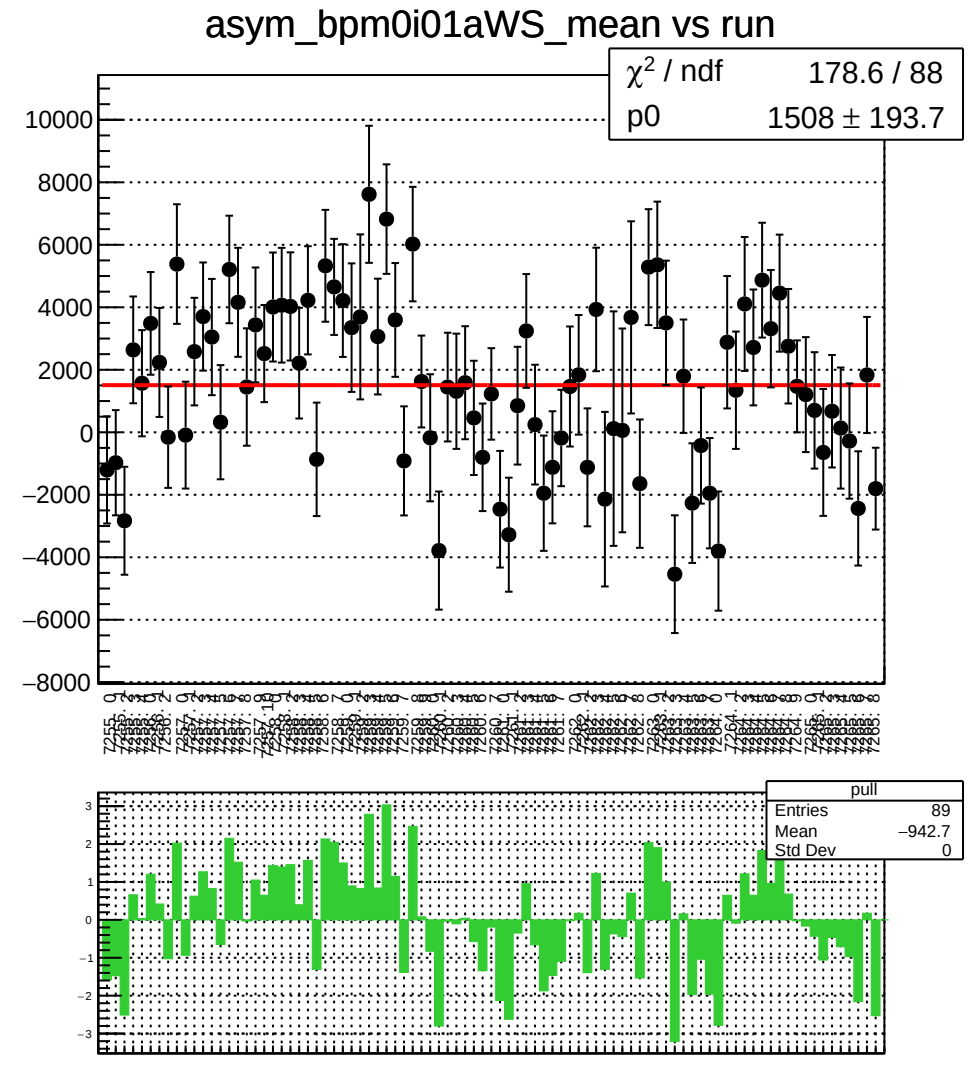

pull1D
Entries 89
Mean 0.006987
Std Dev 1.243
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

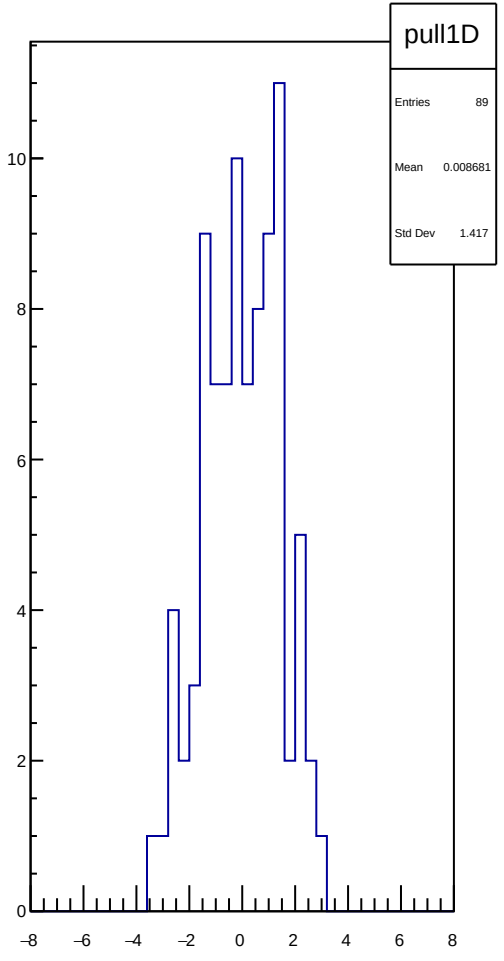

asym_bpm2i02WS_rms vs run
χ^2 / ndf 2.293e+04 / 88
p0 161.5 ± 0.1249
340
320
300
280
260
240
220
200
180
160
140

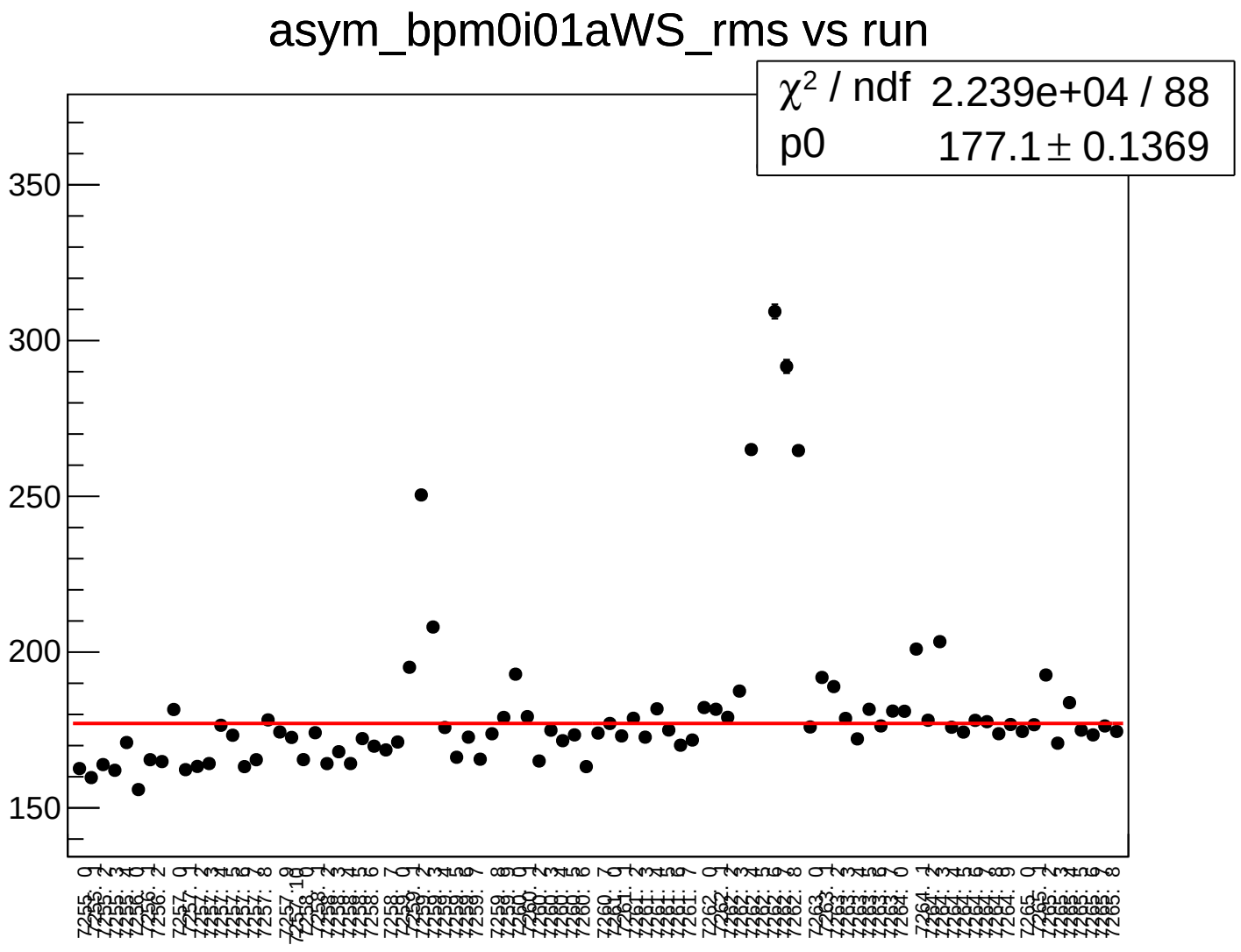

asym_bpm0i01WS_mean vs run
χ^2 / ndf 138.2 / 88
p0 479.1 ± 206.7
pull
Entries 89
Mean −432.8
Std Dev 0

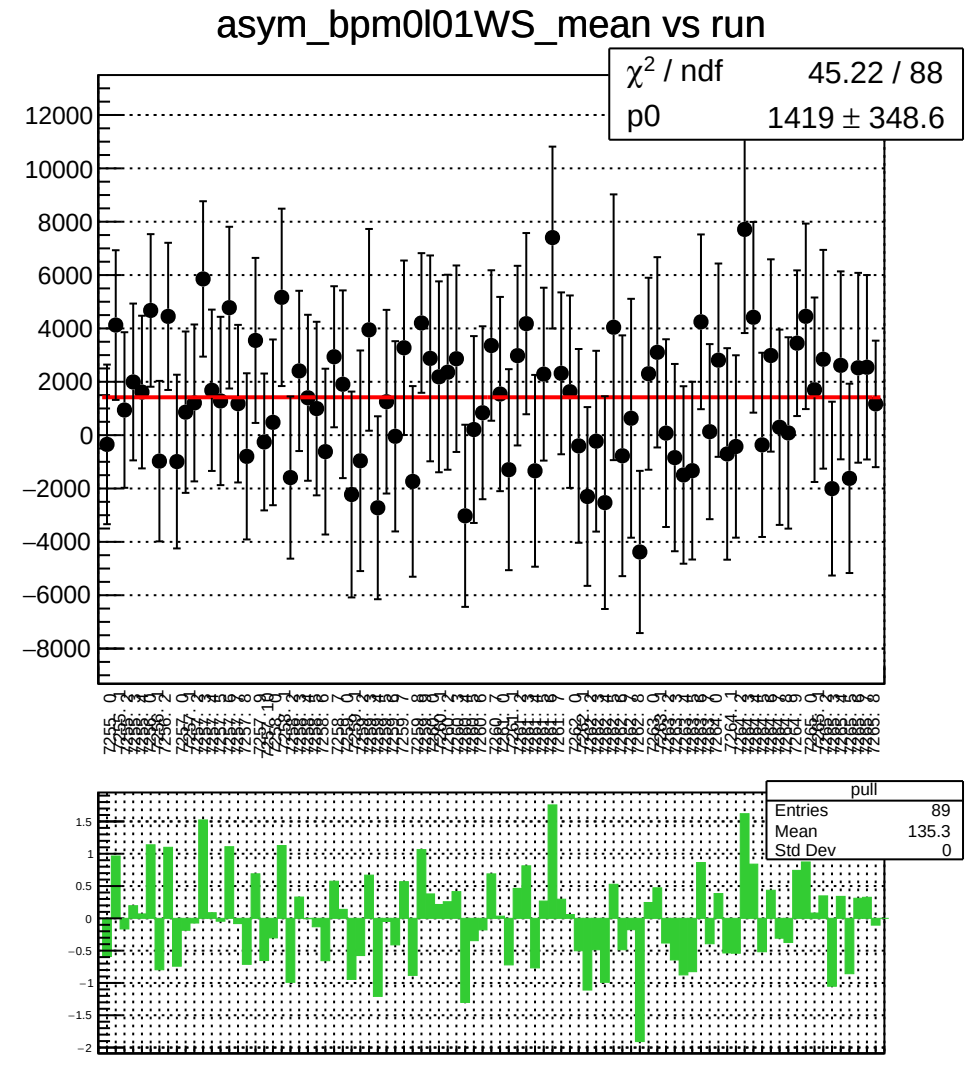

pull1D
Entries 89
Mean 0.01599
Std Dev 1.246

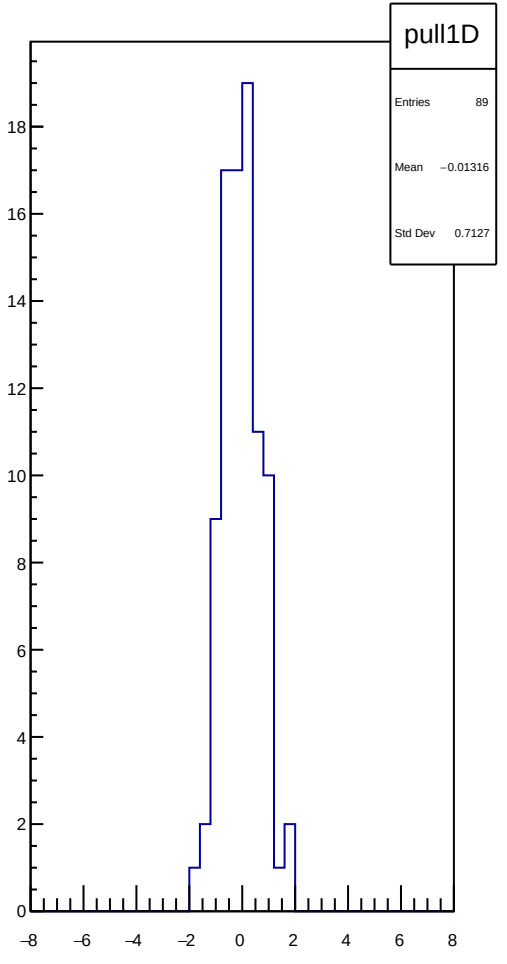

asym_bpm0i01WS_rms vs run
χ² / ndf 1.94e+04 / 88
p0 189.2 ± 0.1461
350
300
250
200
150

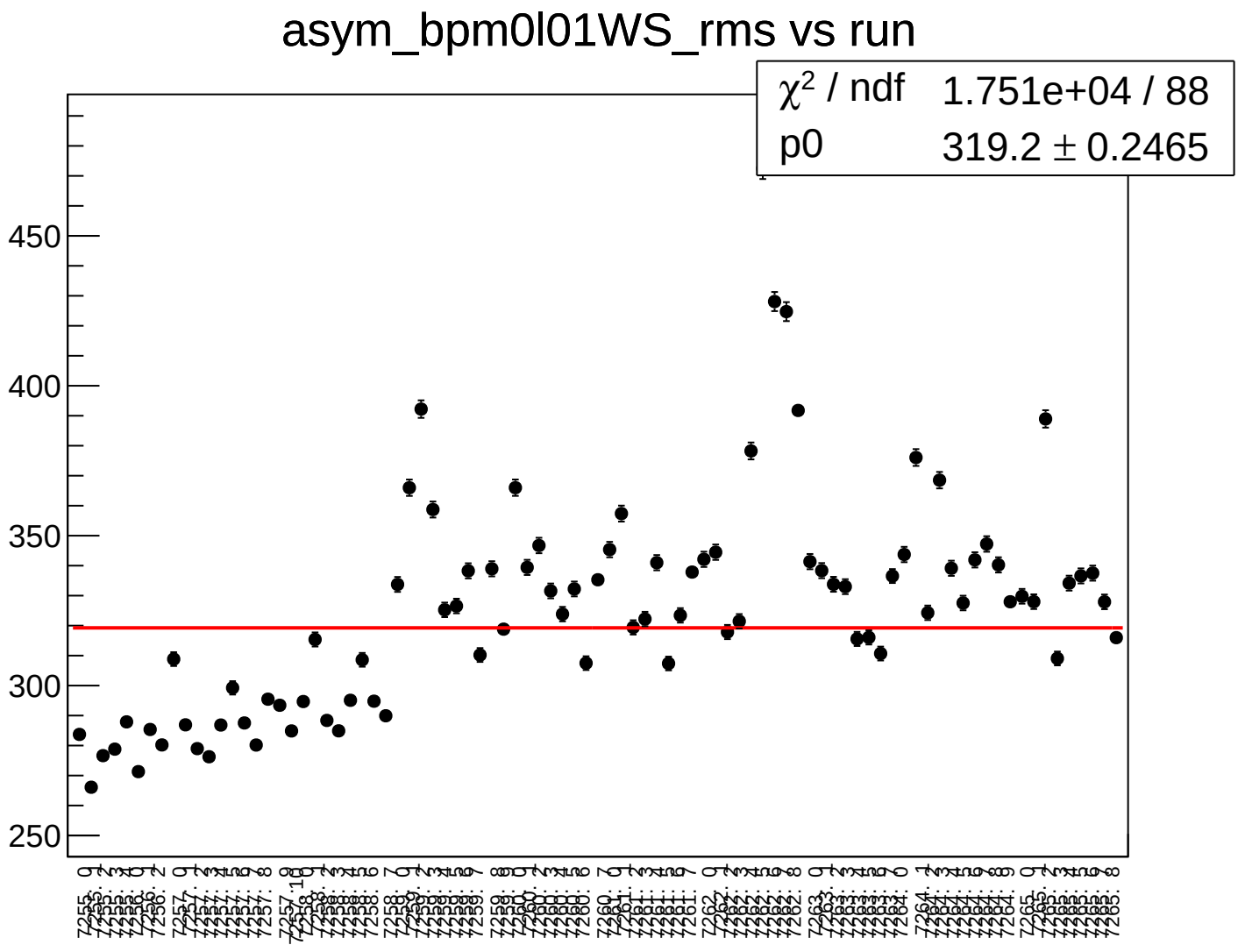

asym_bpm0i01aWS_mean vs run
χ² / ndf 178.6 / 88
p0 1508 ± 193.7
pull
Entries 89
Mean −942.7
Std Dev 0

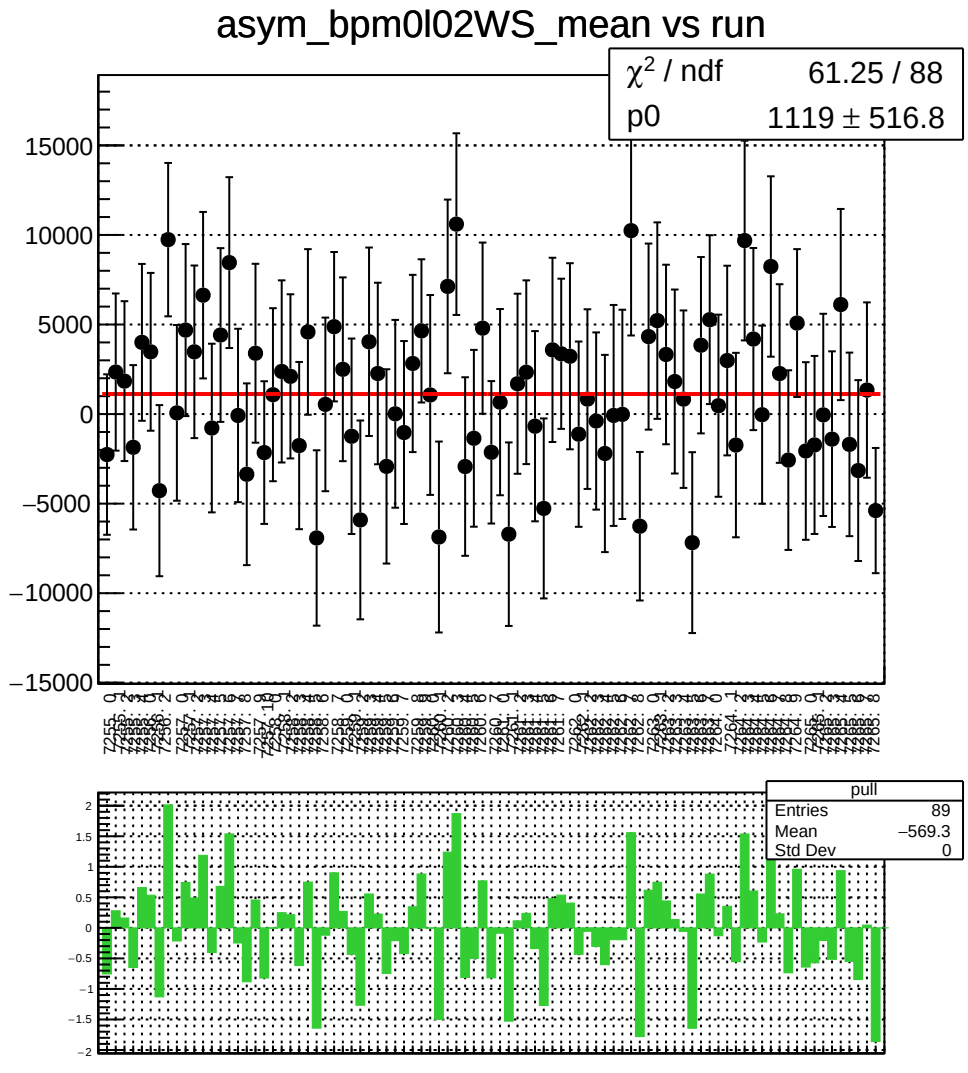

pull1D
Entries 89
Mean 0.008681
Std Dev 1.417

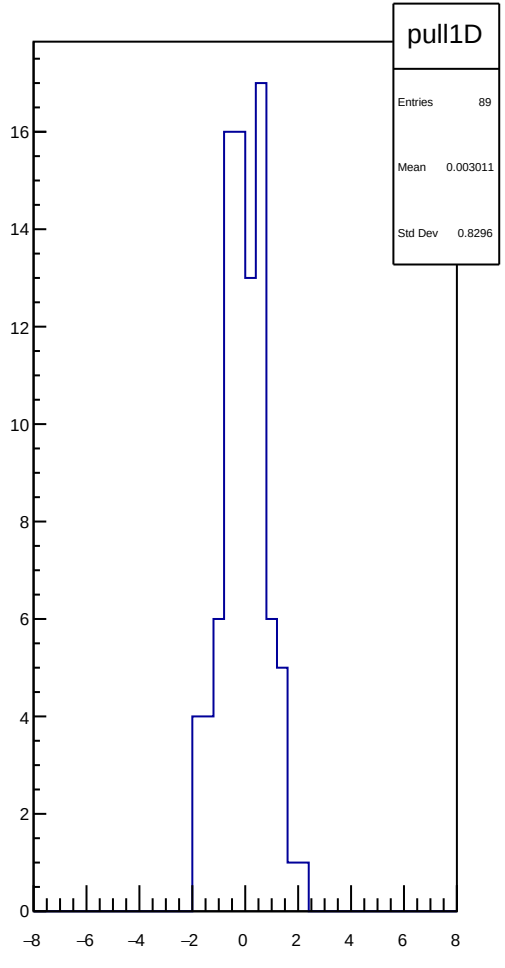

asym_bpm0i01aWS_rms vs run
χ² / ndf 2.239e+04 / 88
p0 177.1 ± 0.1369
350
300
250
200
150

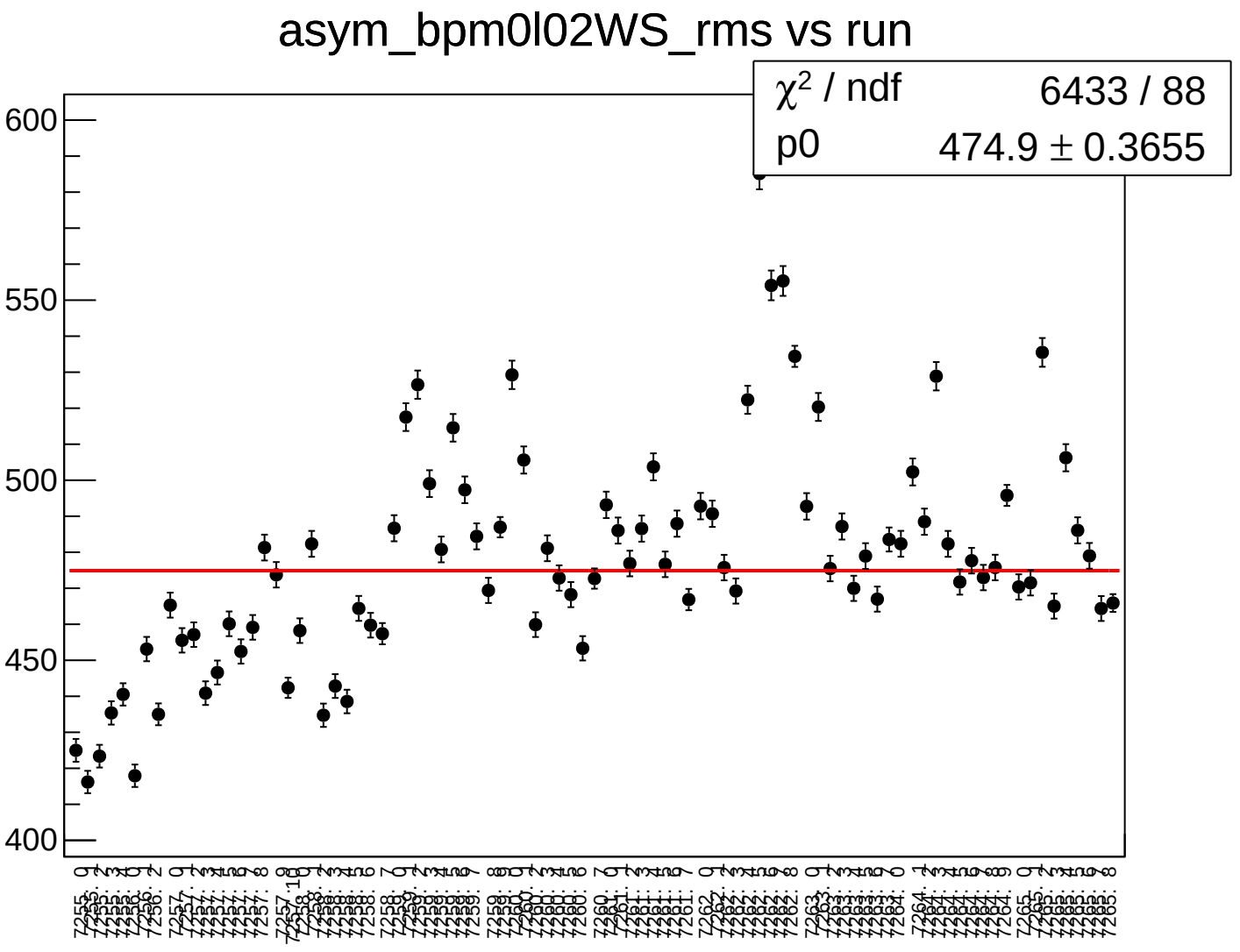

asym_bpm0l01WS_mean vs run
χ² / ndf 45.22 / 88
p0 1419 ± 348.6
pull
Entries 89
Mean 135.3
Std Dev 0

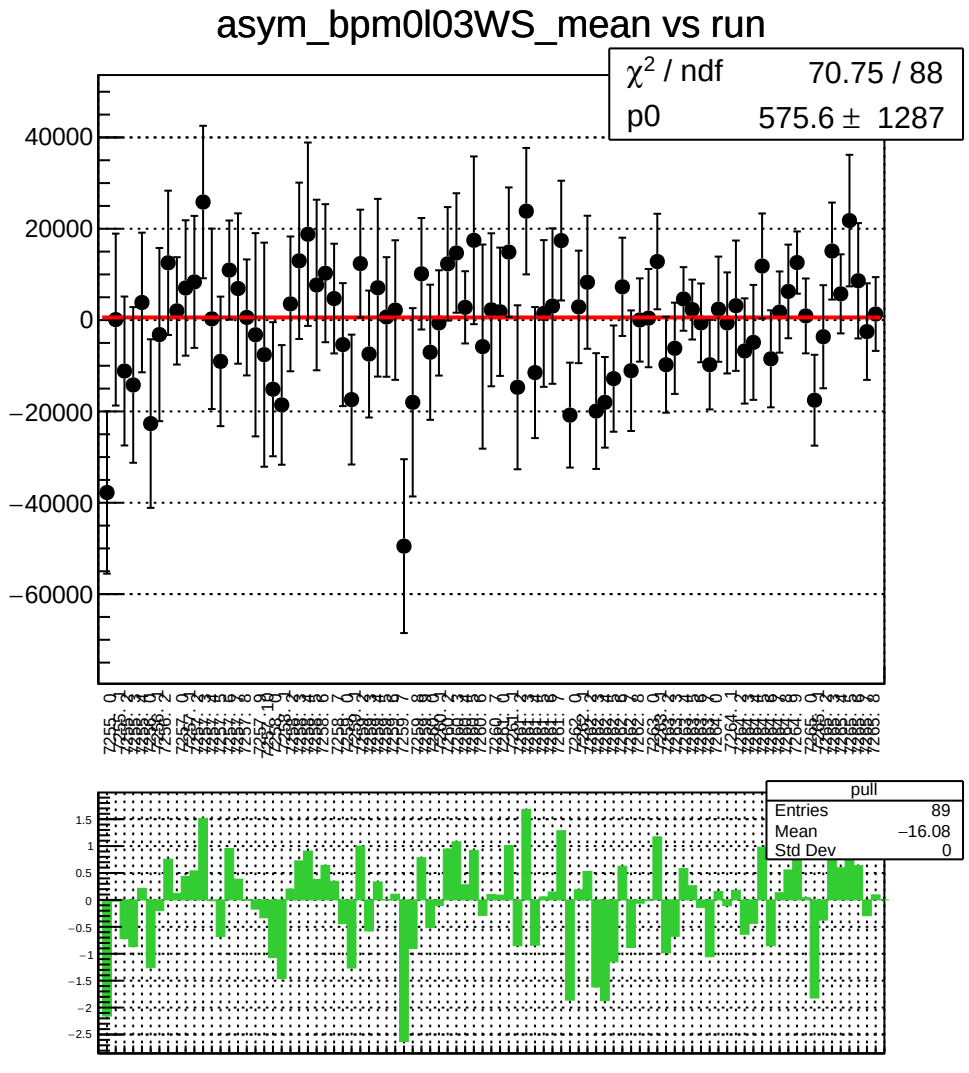

pull1D
Entries 89
Mean −0.01316
Std Dev 0.7127

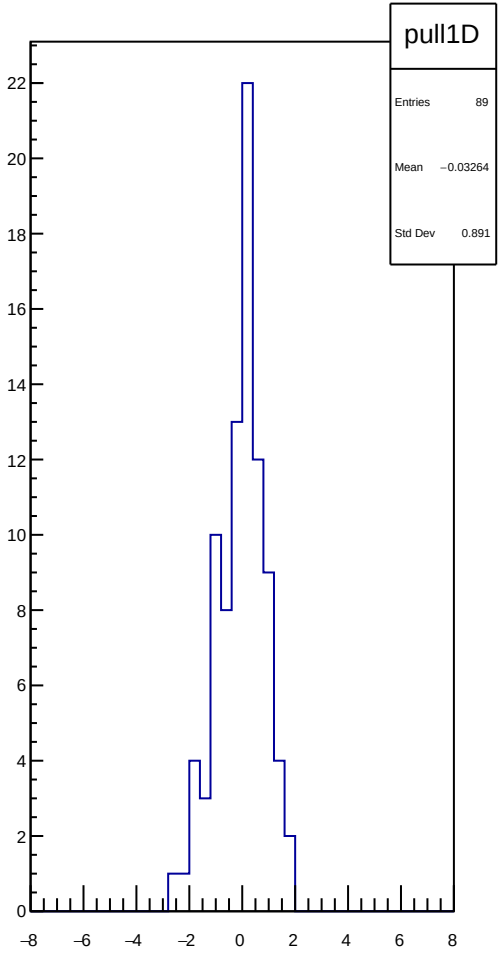

asym_bpm0l01WS_rms vs run
χ² / ndf 1.751e+04 / 88
p0 319.2 ± 0.2465
450
400
350
300
250

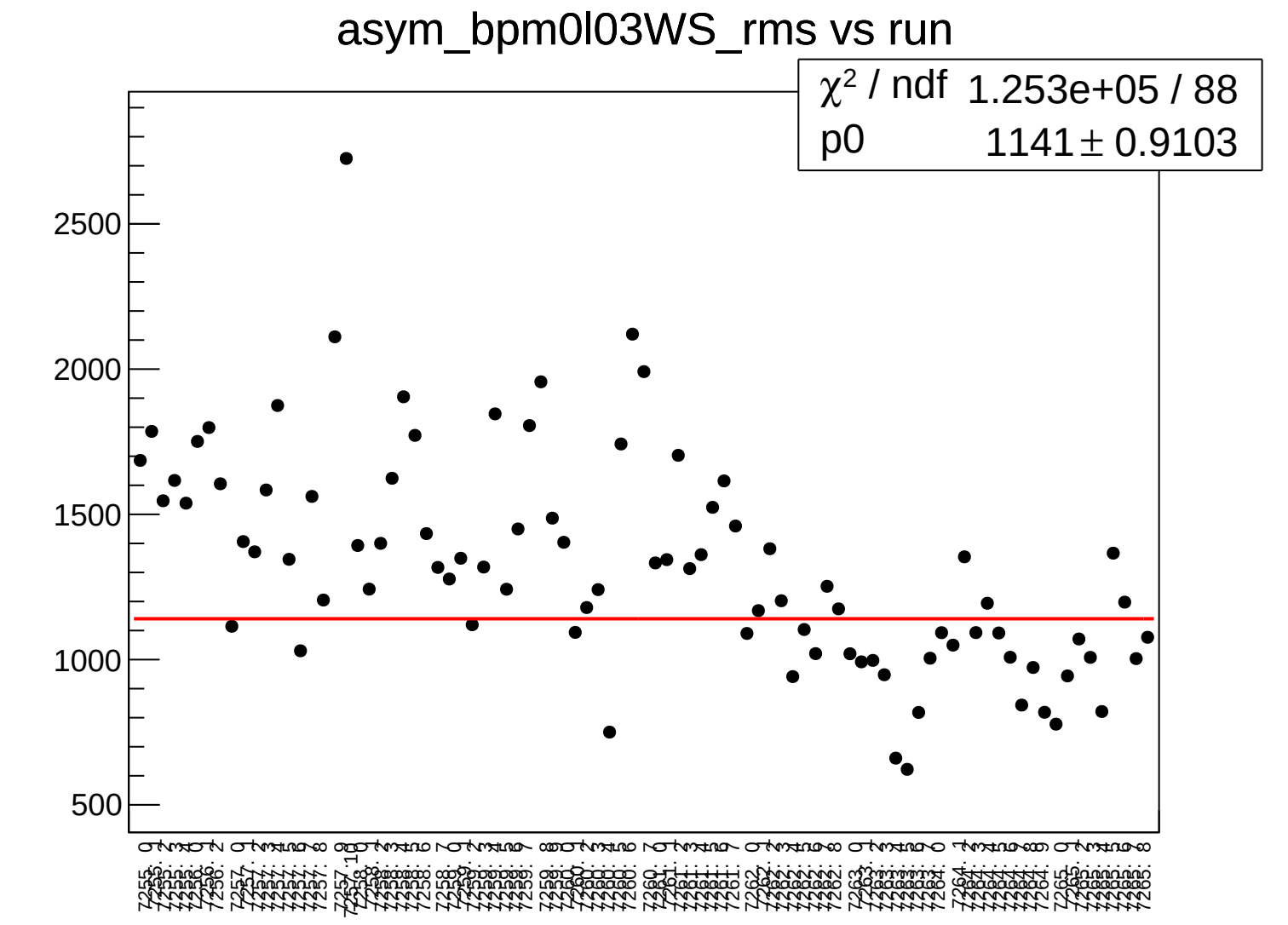

asym_bpm0l02WS_mean vs run
χ² / ndf 61.25 / 88
p0 1119 ± 516.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −569.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

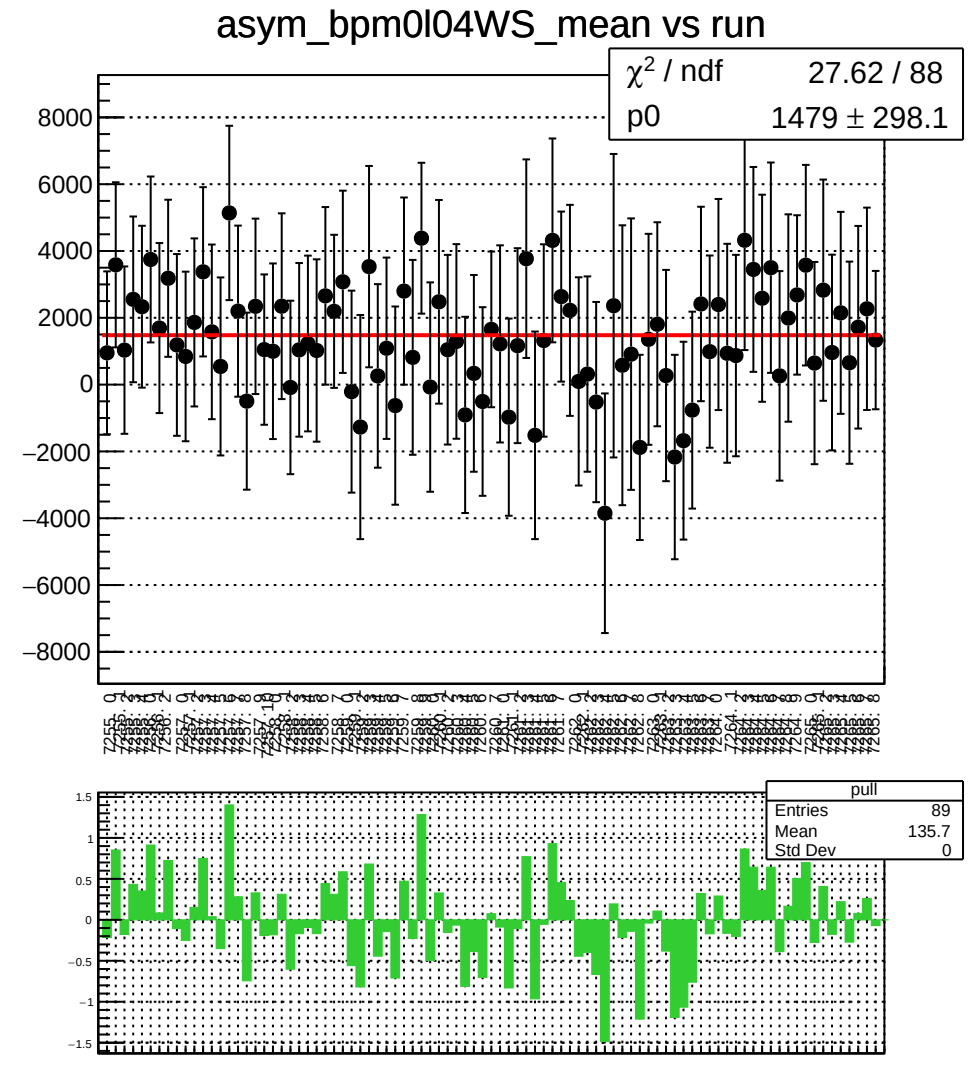

pull1D
Entries 89
Mean 0.003011
Std Dev 0.8296
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

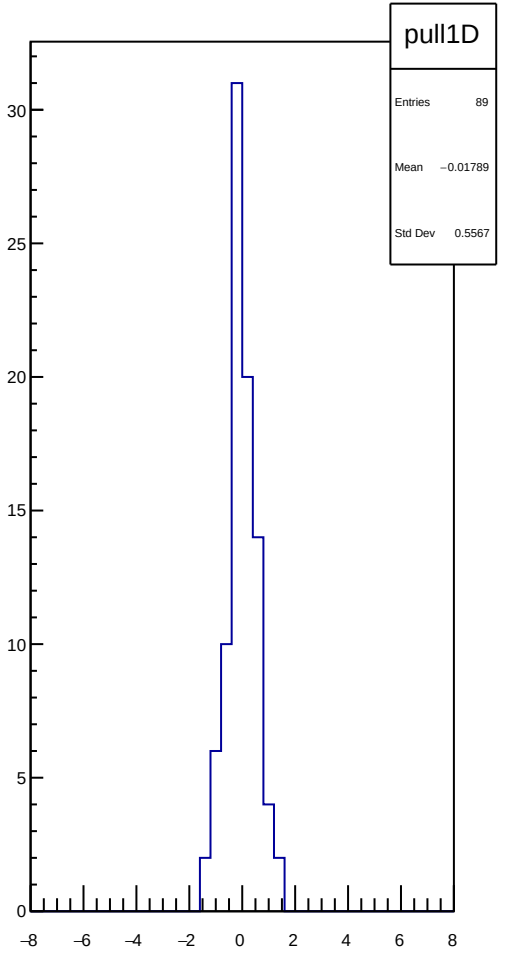

asym_bpm0l02WS_rms vs run
χ² / ndf 6433 / 88
p0 474.9 ± 0.3655
600
550
500
450
400

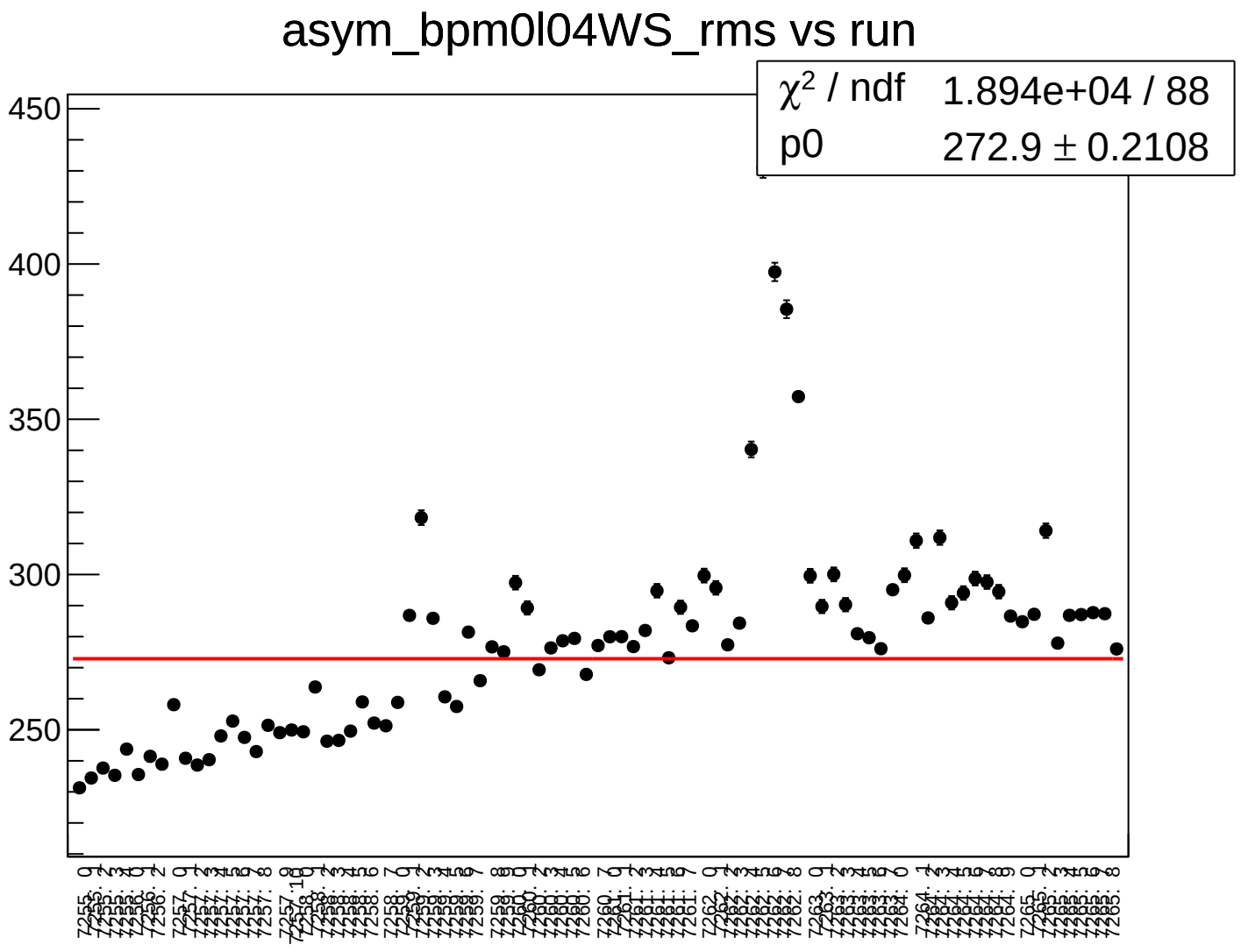

asym_bpm0l03WS_mean vs run
χ² / ndf 70.75 / 88
p0 575.6 ± 1287
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −16.08
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

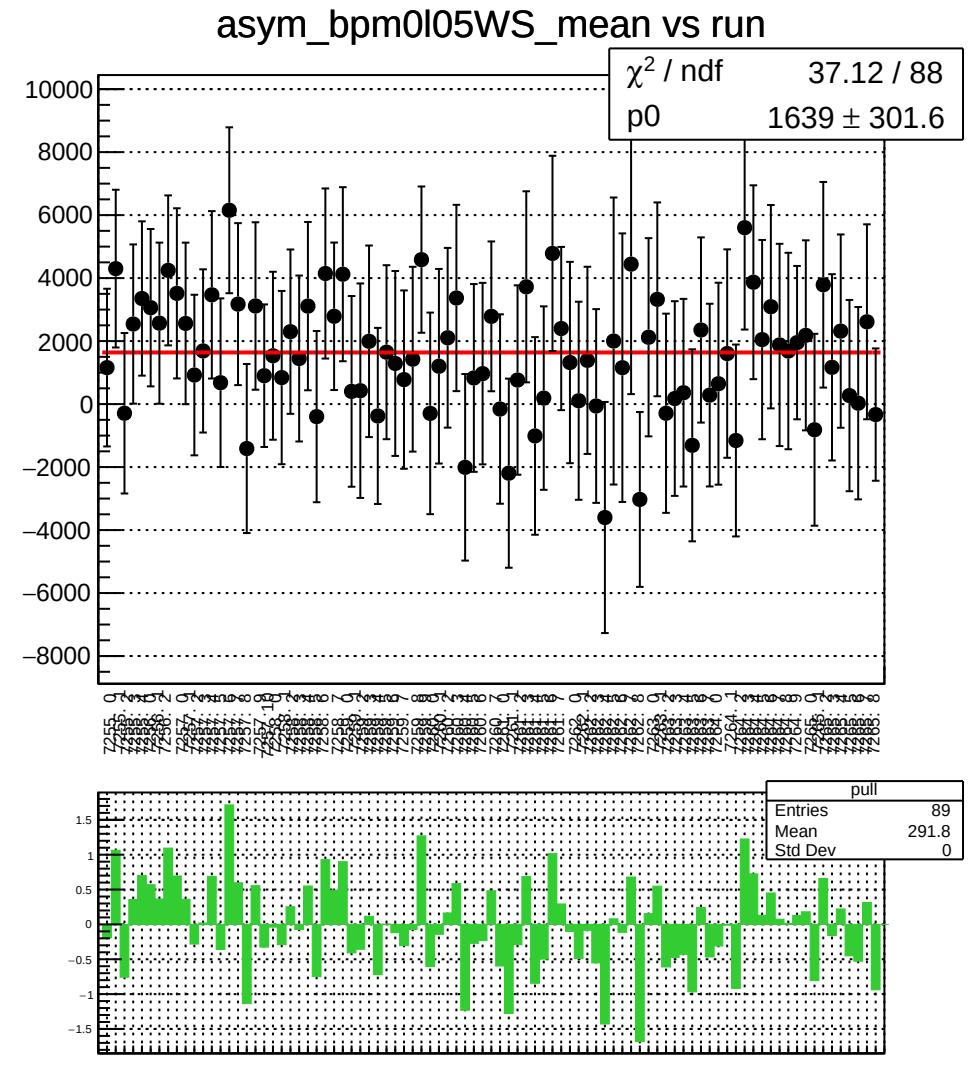

pull1D
Entries 89
Mean −0.03264
Std Dev 0.891
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

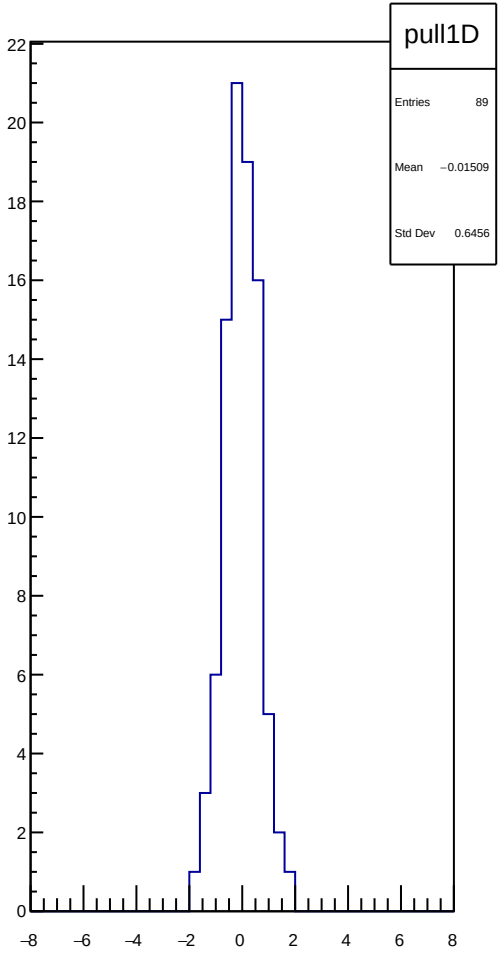

asym_bpm0l03WS_rms vs run
χ² / ndf 1.253e+05 / 88
p0 1141 ± 0.9103
2500
2000
1500
1000
500

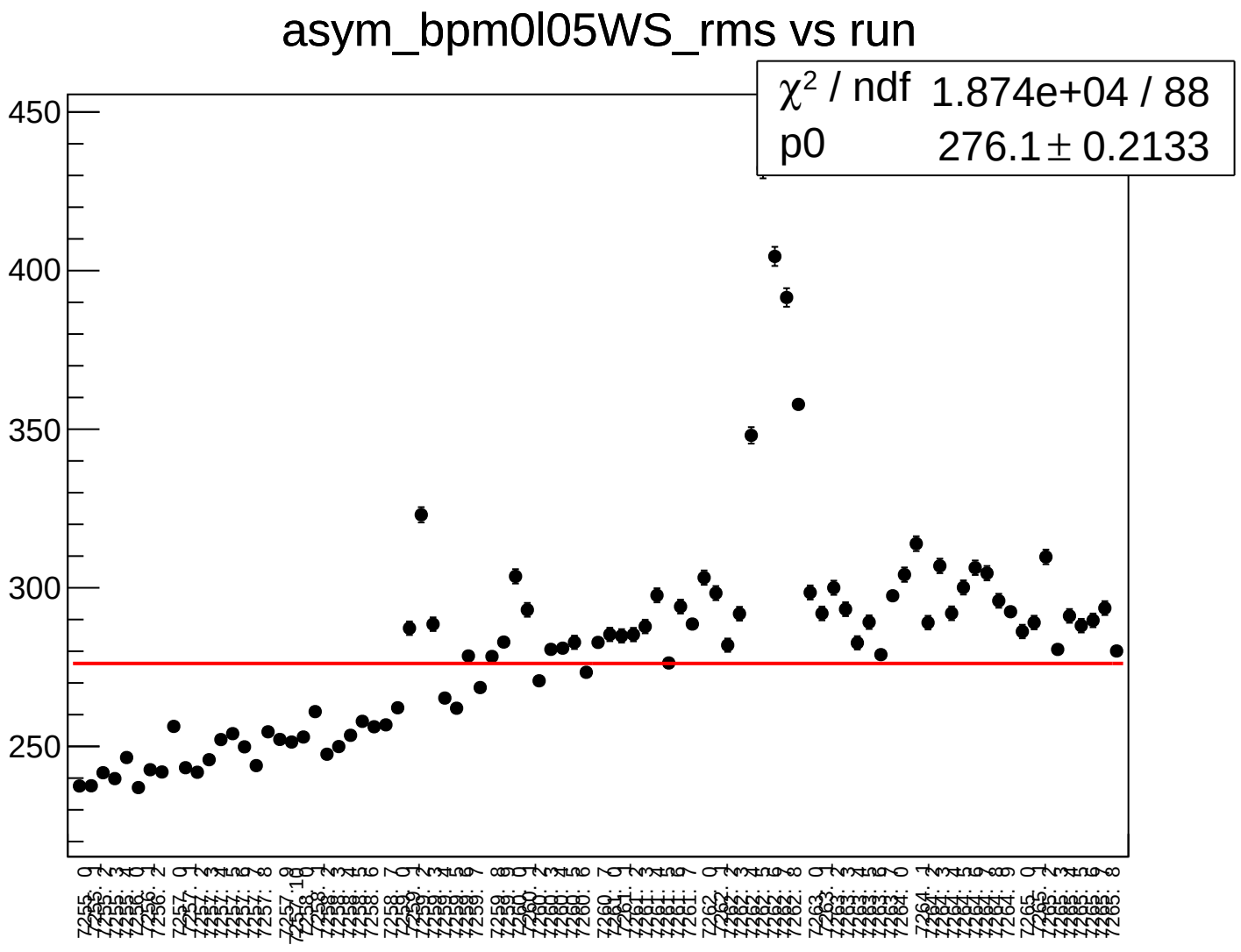

asym_bpm0l04WS_mean vs run
χ² / ndf 27.62 / 88
p0 1479 ± 298.1
pull
Entries 89
Mean 135.7
Std Dev 0

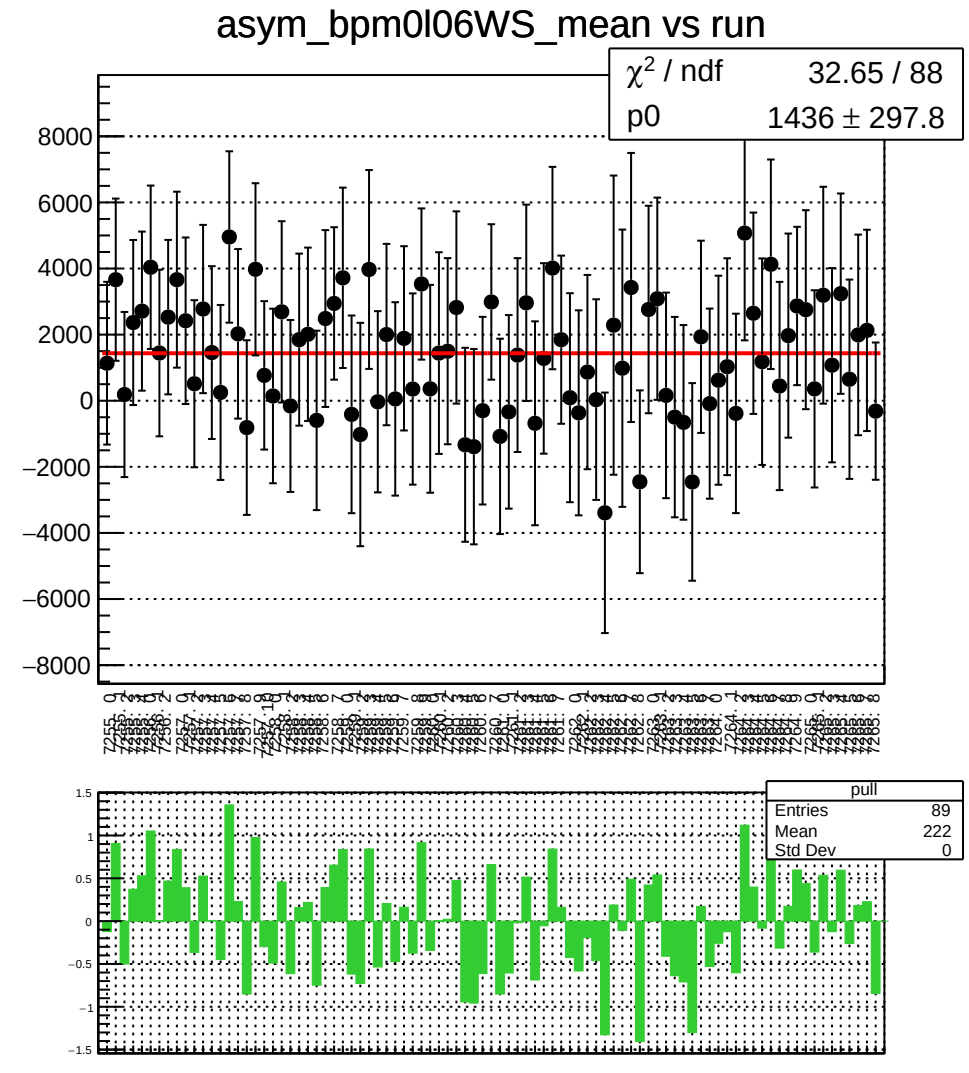

pull1D
Entries 89
Mean −0.01789
Std Dev 0.5567

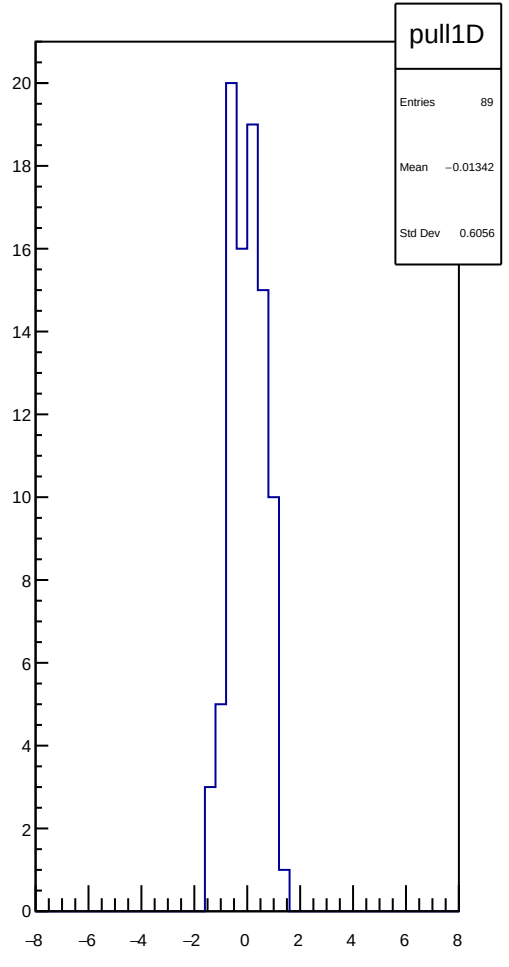

asym_bpm0l04WS_rms vs run
χ² / ndf 1.894e+04 / 88
p0 272.9 ± 0.2108
450
400
350
300
250

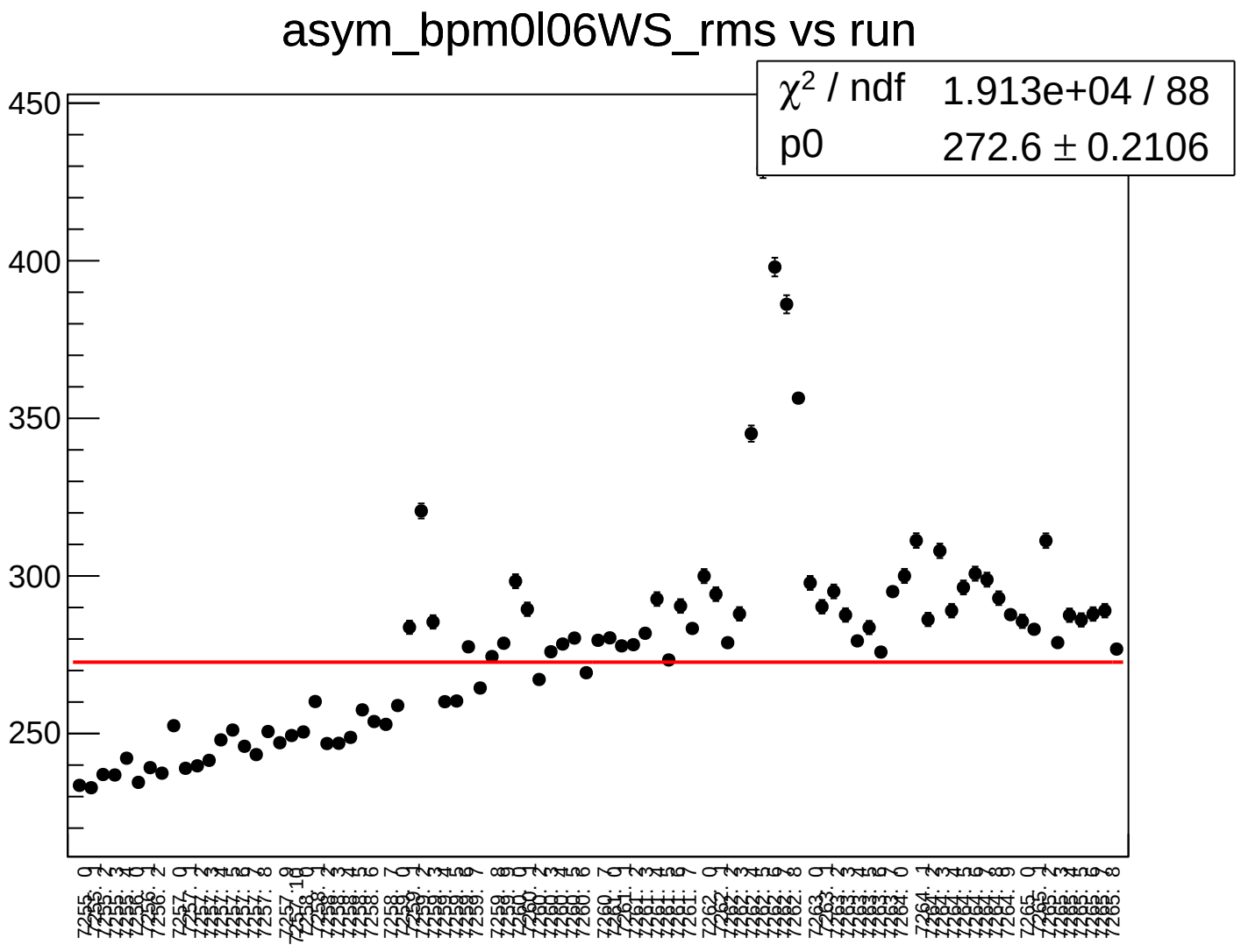

asym_bpm0l05WS_mean vs run
χ^2 / ndf 37.12 / 88
p0 1639 ± 301.6
pull
Entries 89
Mean 291.8
Std Dev 0

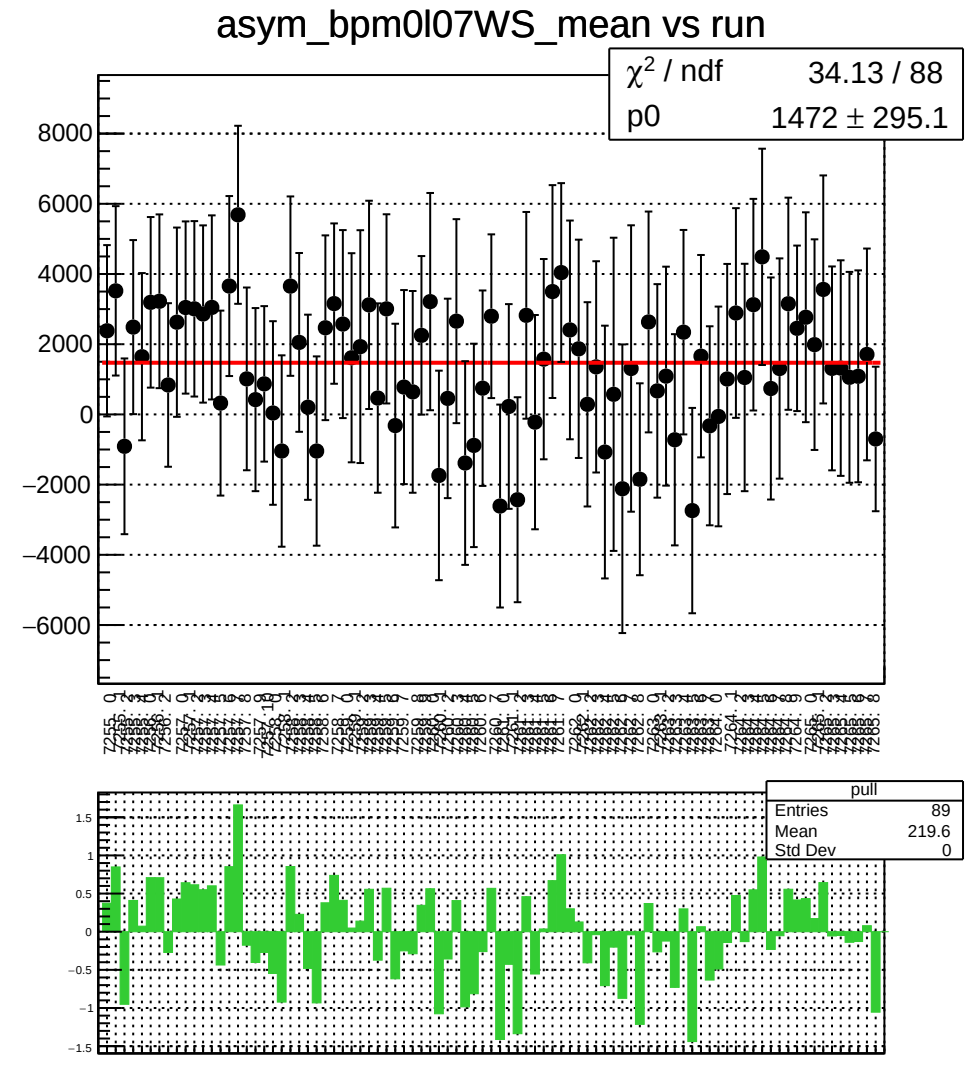

pull1D
Entries 89
Mean −0.01509
Std Dev 0.6456

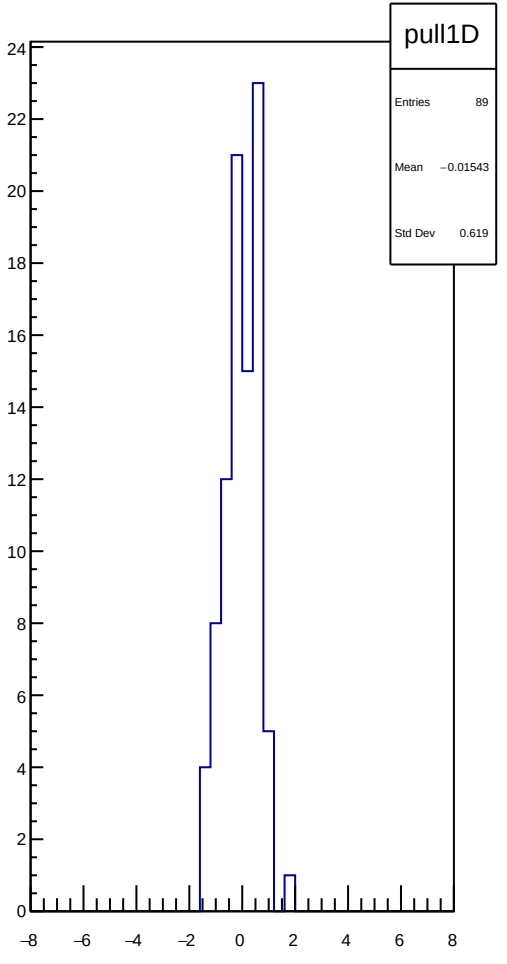

asym_bpm0l05WS_rms vs run
χ² / ndf 1.874e+04 / 88
p0 276.1 ± 0.2133
450
400
350
300
250

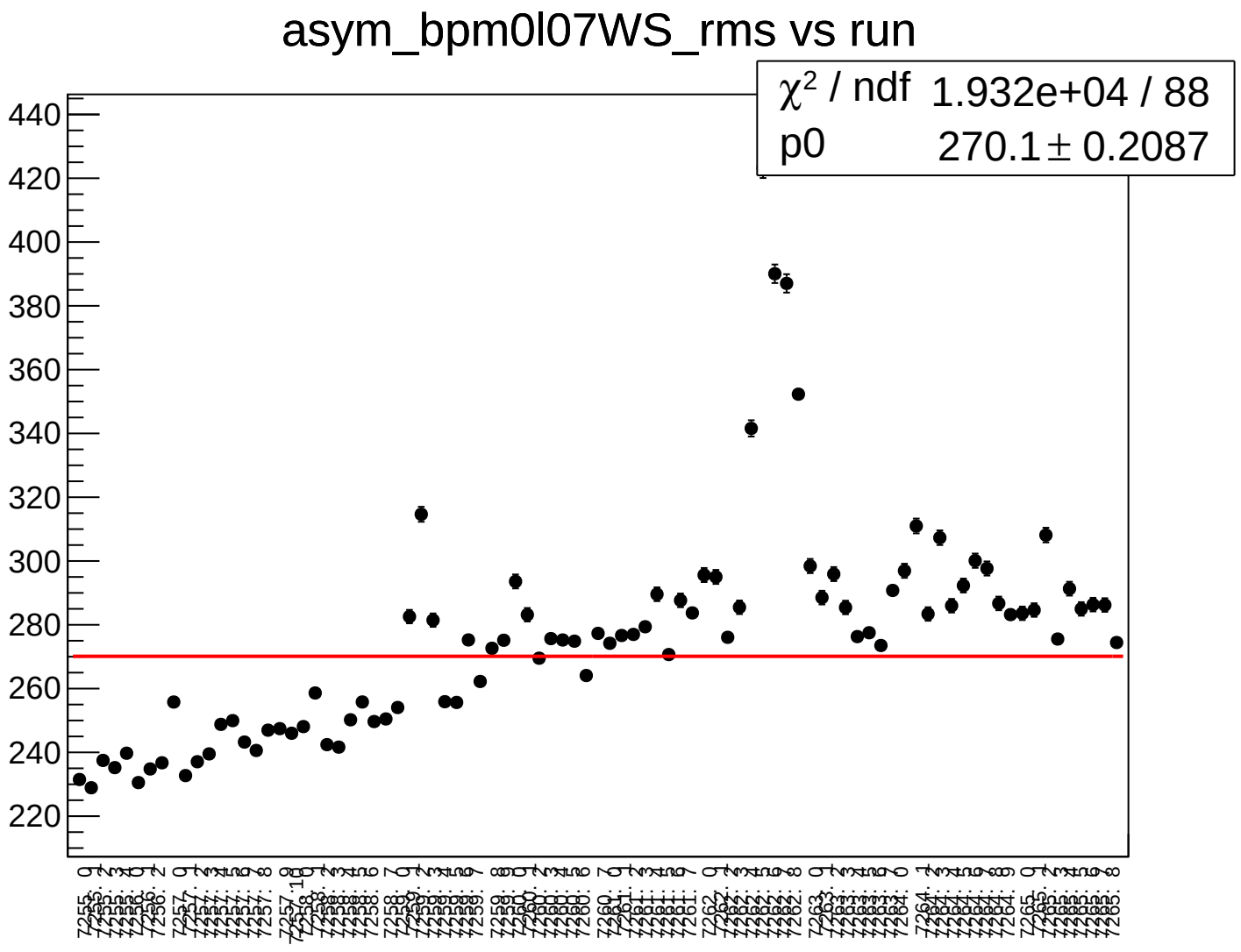

asym_bpm0l06WS_mean vs run
χ² / ndf 32.65 / 88
p0 1436 ± 297.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean 222
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

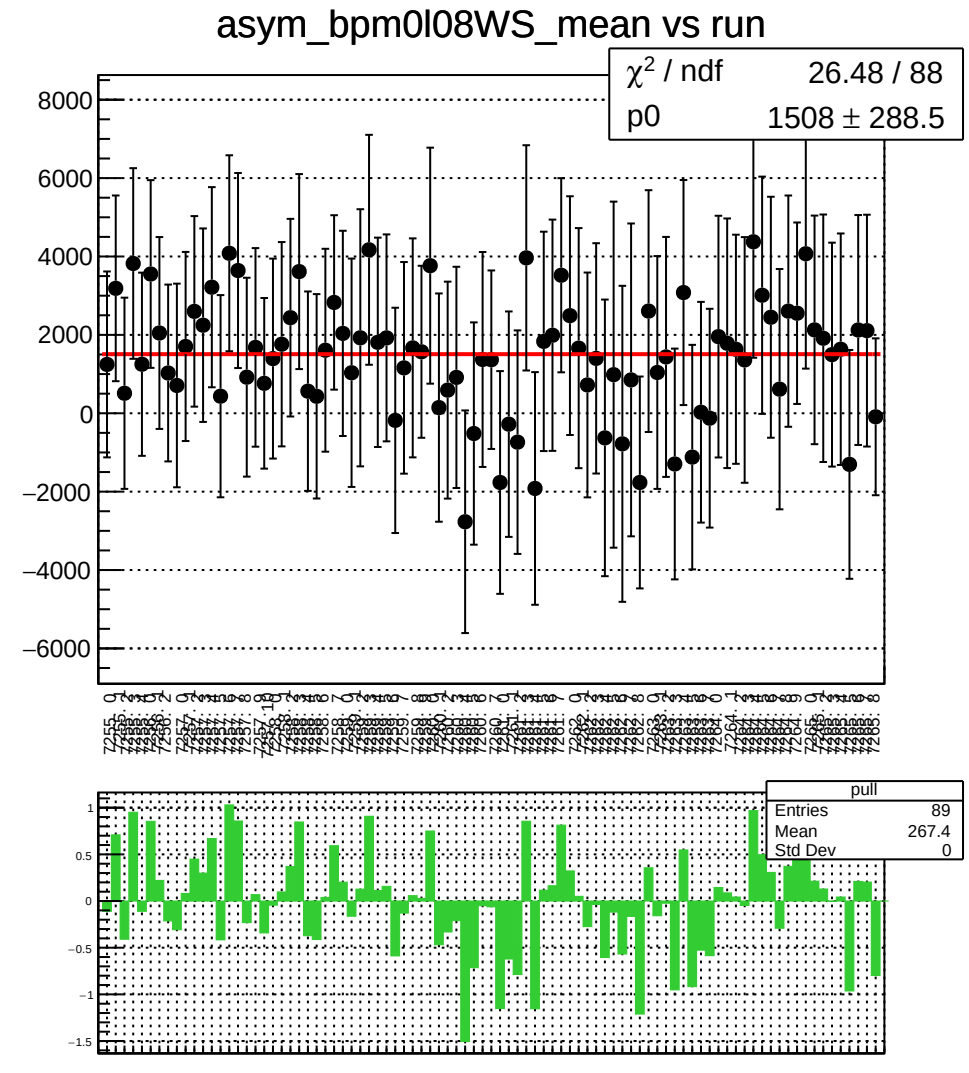

pull1D
Entries 89
Mean −0.01342
Std Dev 0.6056
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

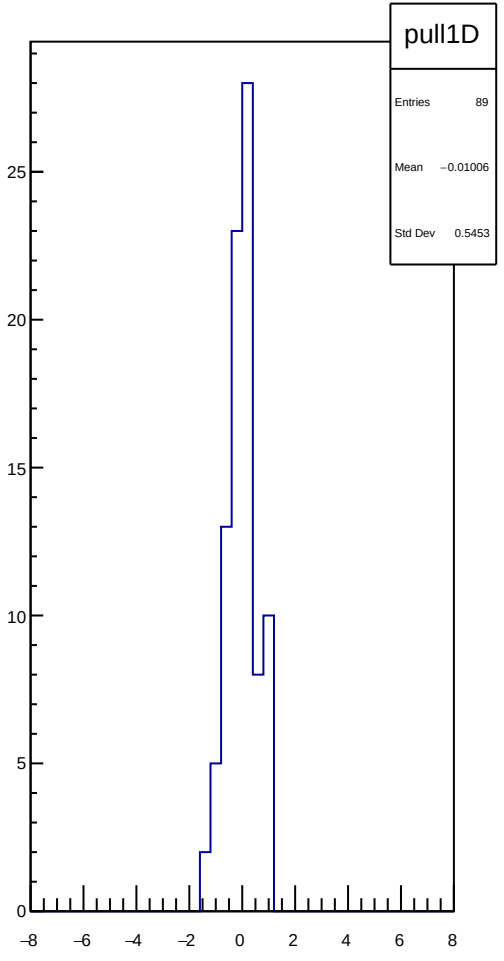

asym_bpm0l06WS_rms vs run
χ² / ndf 1.913e+04 / 88
p0 272.6 ± 0.2106
450
400
350
300
250

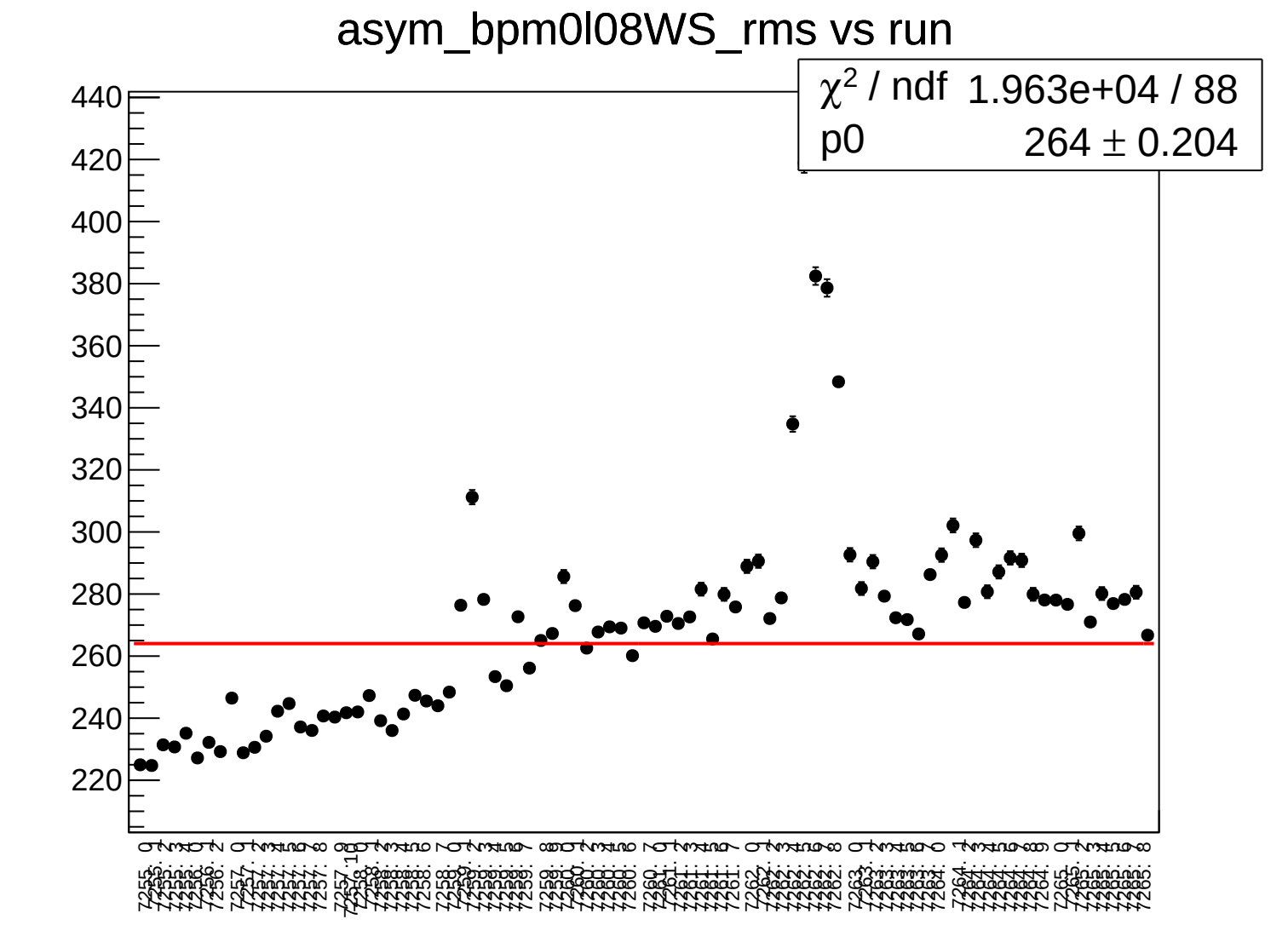

asym_bpm0l07WS_mean vs run
χ² / ndf 34.13 / 88
p0 1472 ± 295.1
pull
Entries 89
Mean 219.6
Std Dev 0

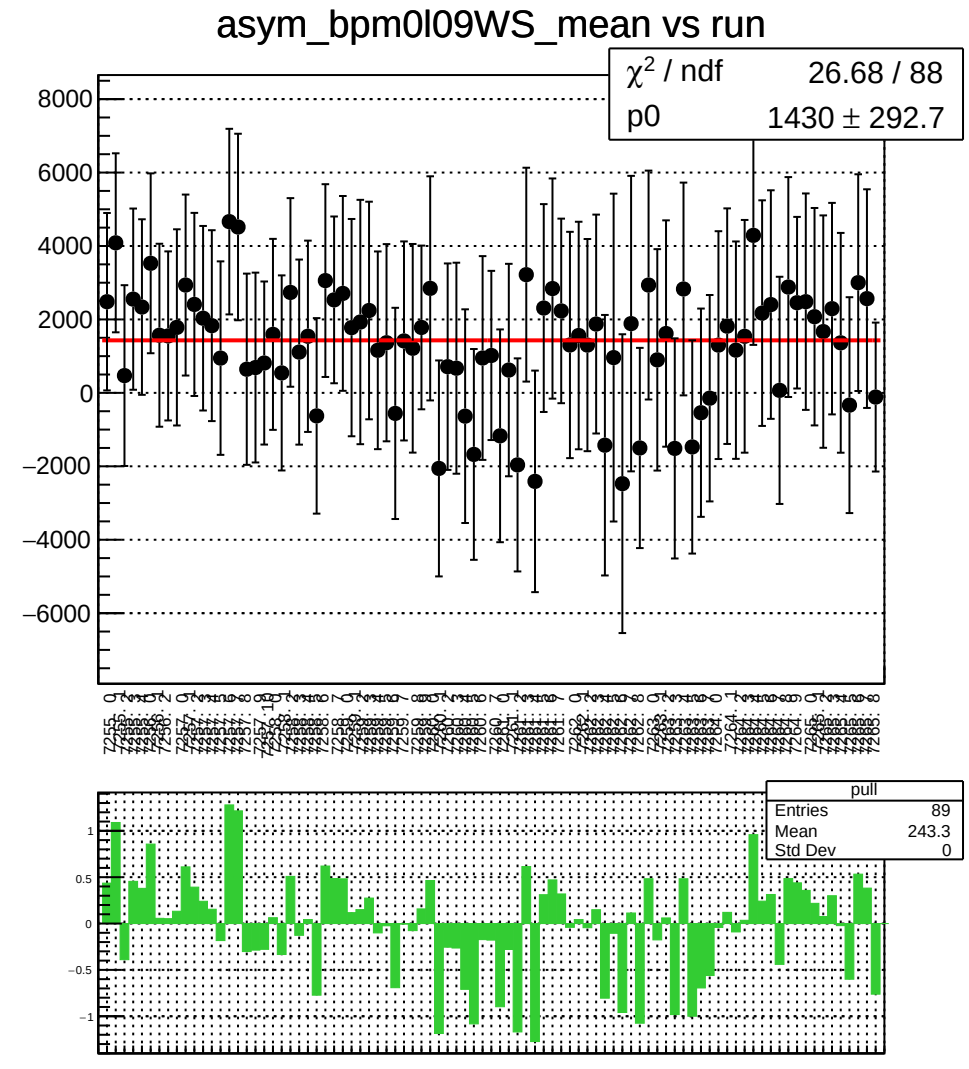

pull1D
Entries 89
Mean −0.01543
Std Dev 0.619

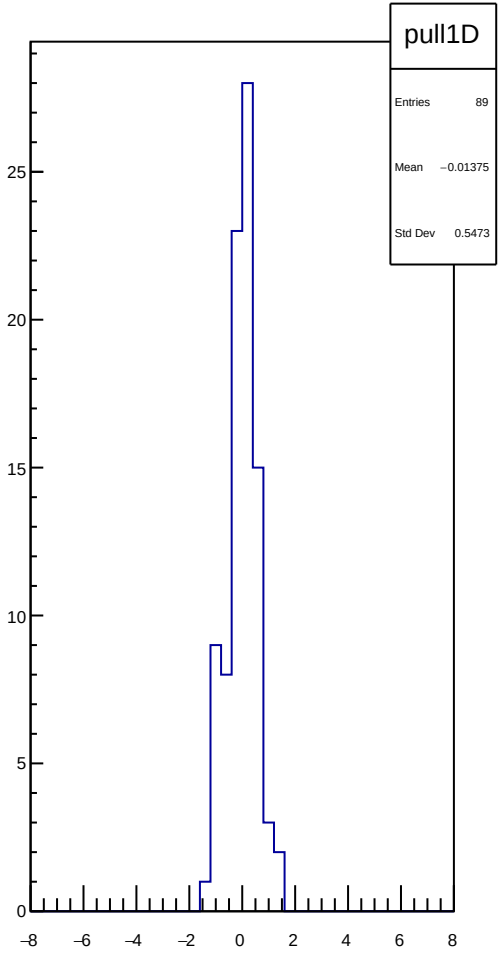

asym_bpm0l07WS_rms vs run
χ² / ndf 1.932e+04 / 88
p0 270.1 ± 0.2087
440
420
400
380
360
340
320
300
280
260
240
220

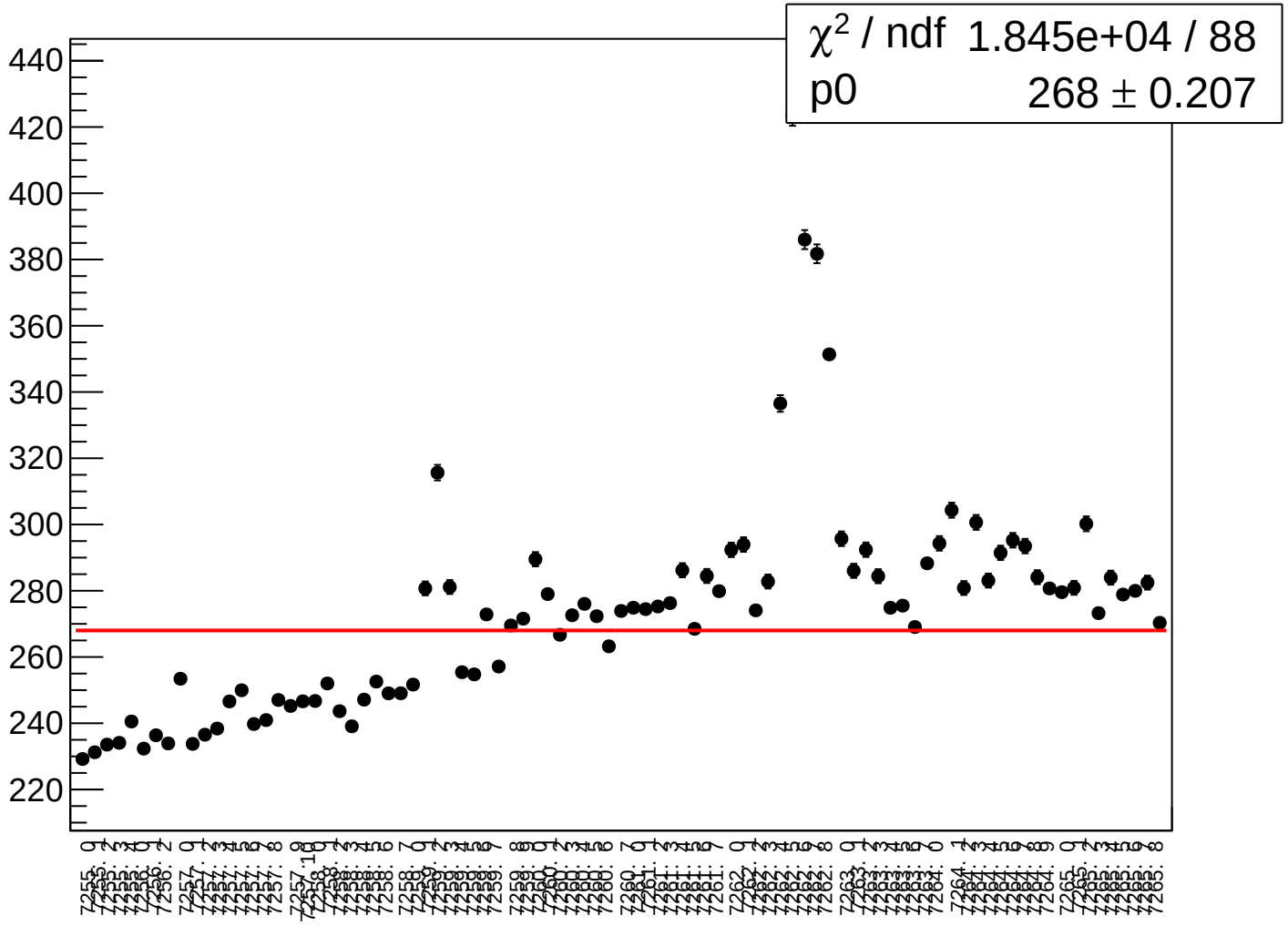

asym_bpm0l08WS_mean vs run
χ² / ndf 26.48 / 88
p0 1508 ± 288.5
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 267.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

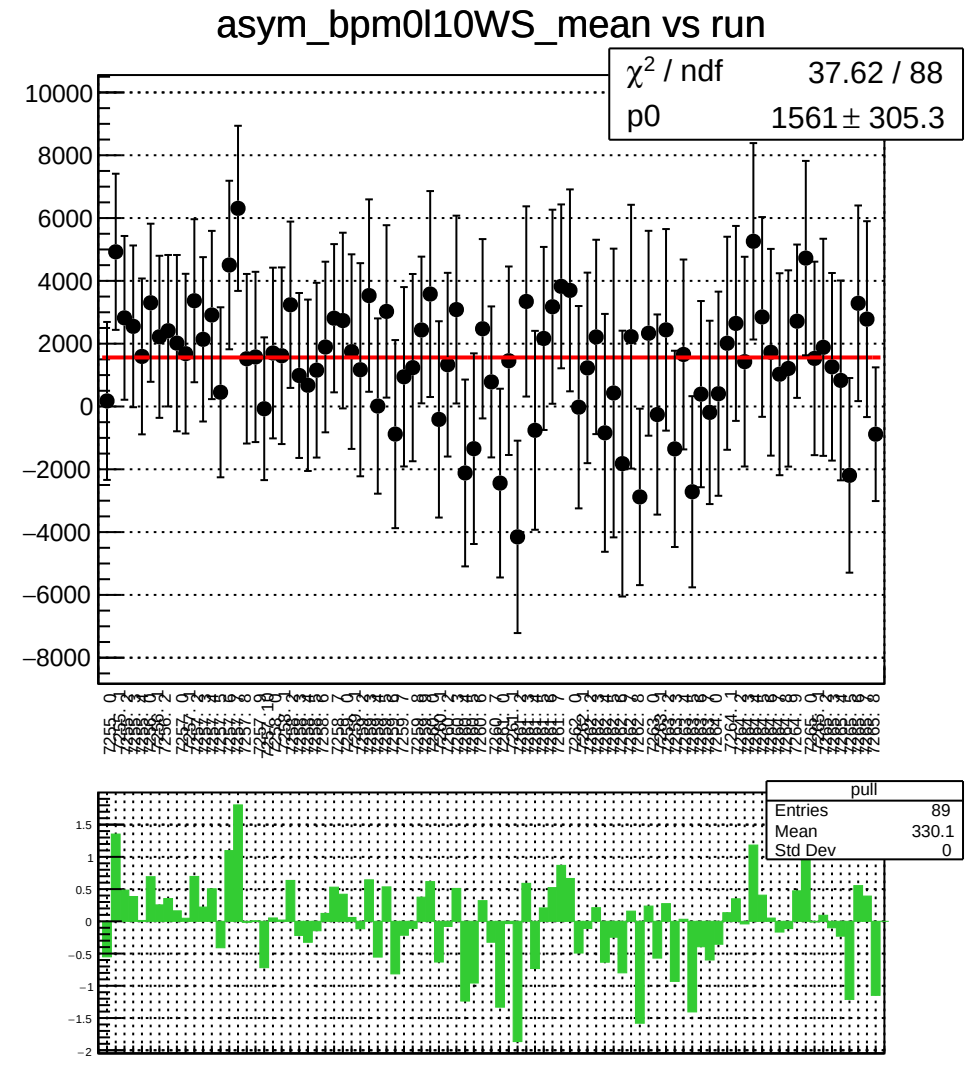

pull1D
Entries 89
Mean −0.01006
Std Dev 0.5453
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

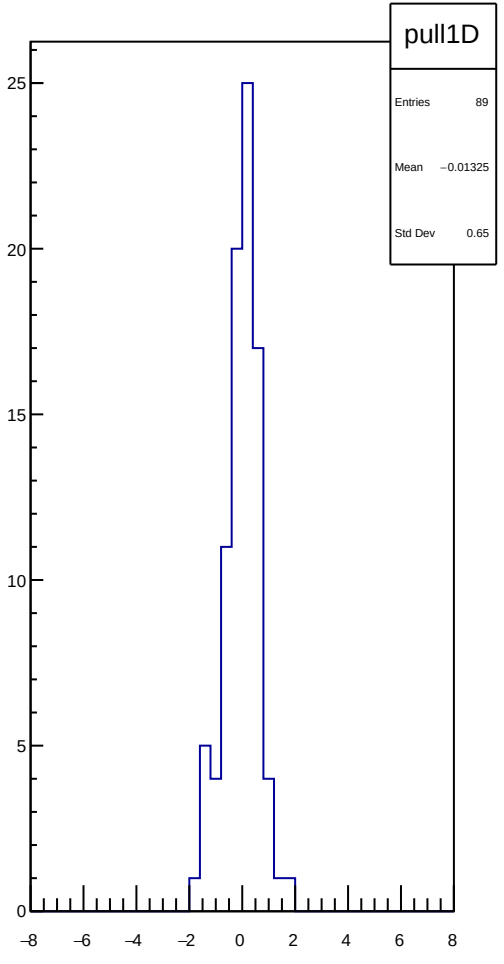

asym_bpm0l08WS_rms vs run
χ^2 / ndf 1.963e+04 / 88
p0 264 ± 0.204
440
420
400
380
360
340
320
300
280
260
240
220

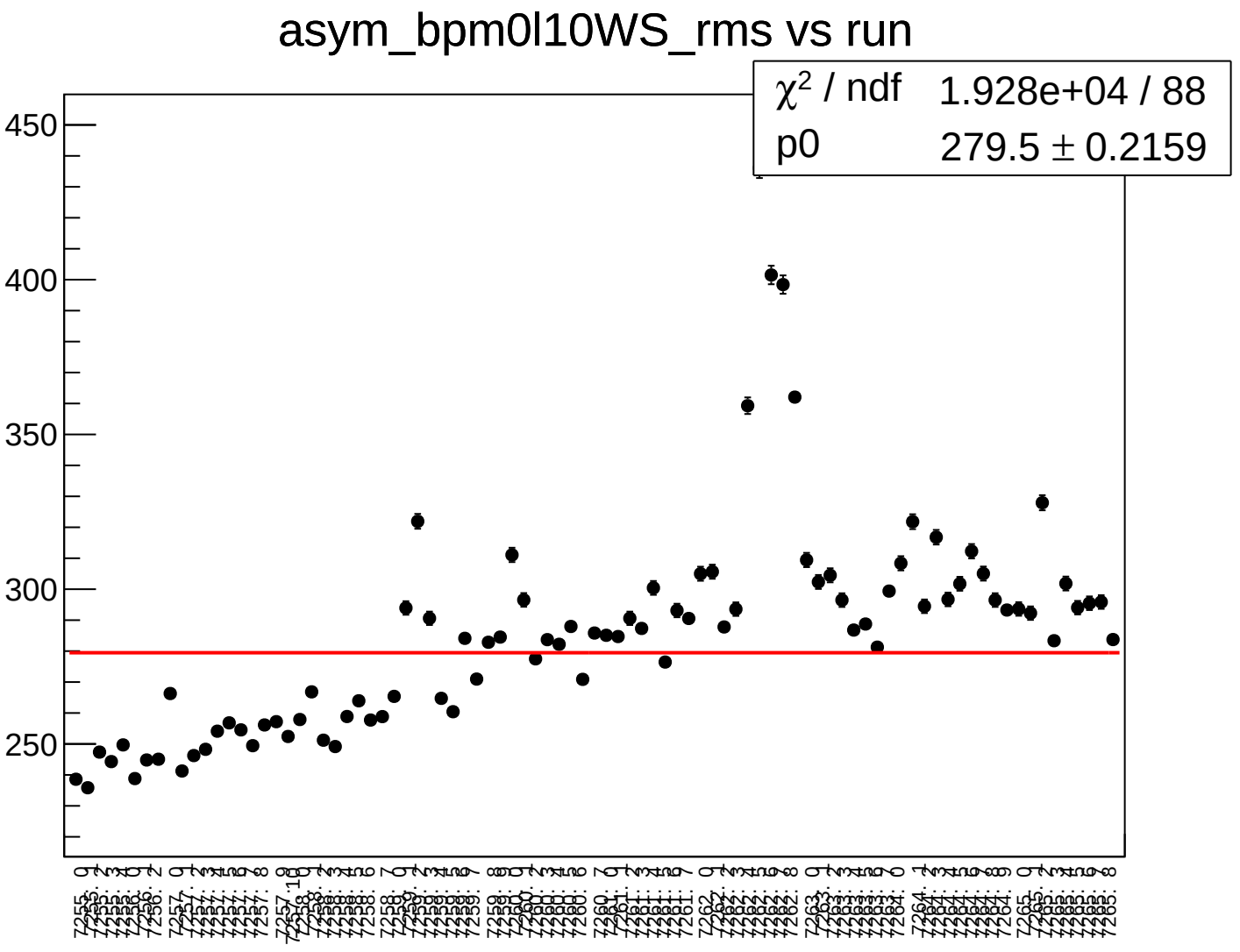

asym_bpm0l09WS_mean vs run
χ² / ndf 26.68 / 88
p0 1430 ± 292.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 243.3
Std Dev 0
1
0.5
0
−0.5
−1

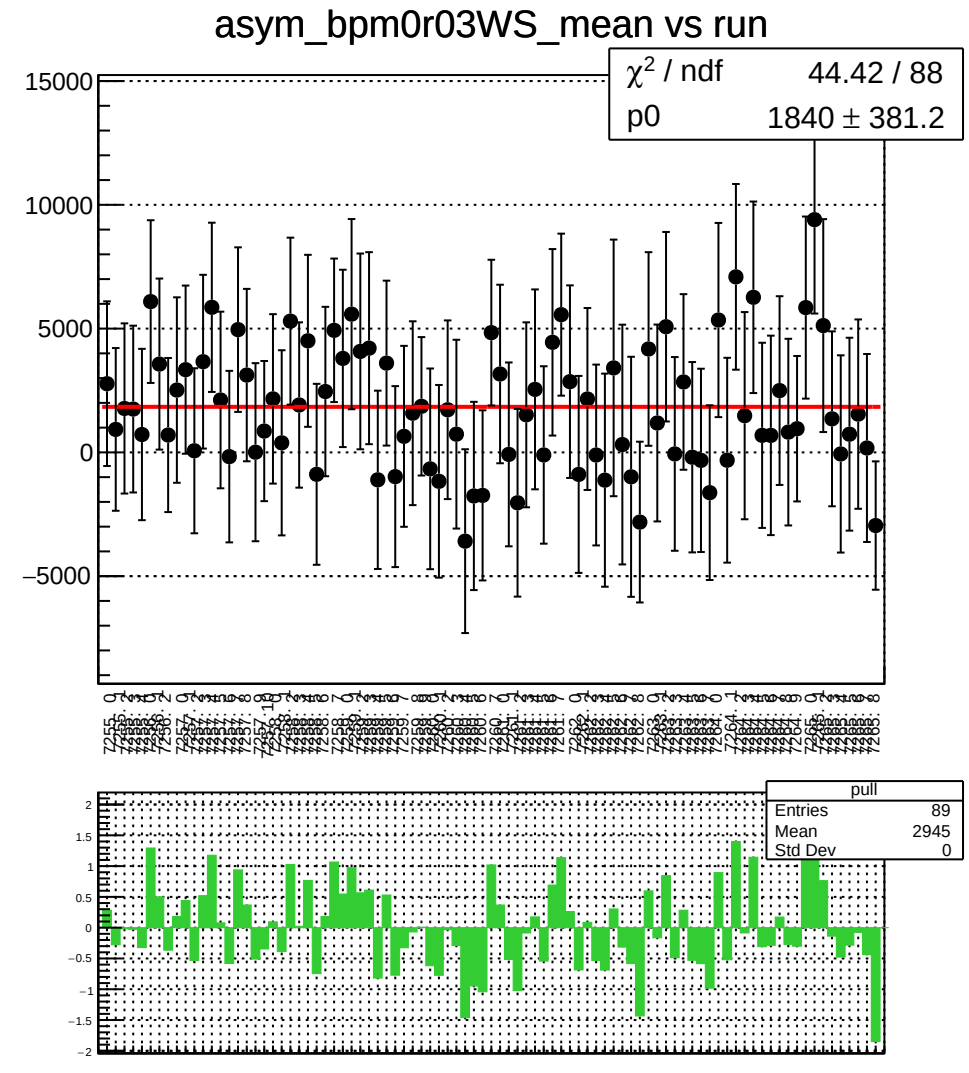

pull1D
Entries 89
Mean −0.01375
Std Dev 0.5473
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

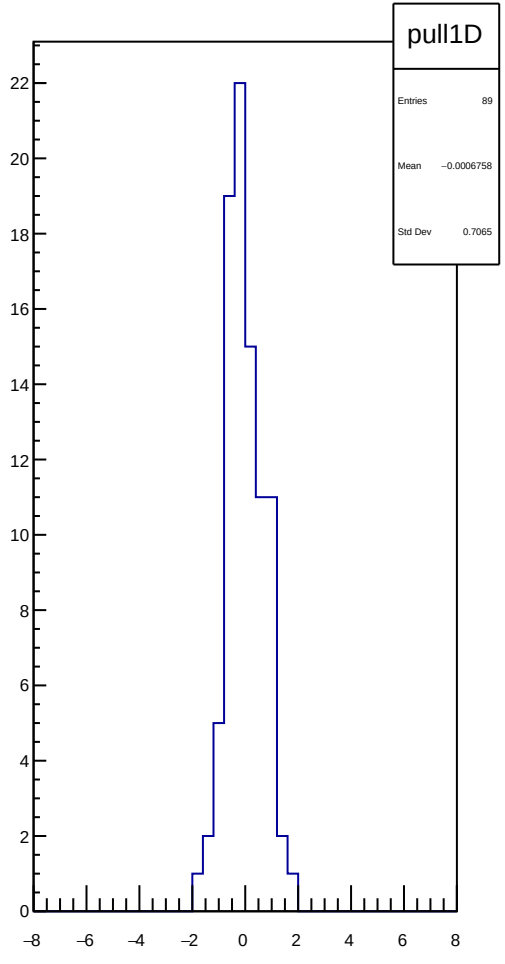

asym_bpm0l09WS_rms vs run
χ^2 / ndf 1.845e+04 / 88
p0 268 ± 0.207
440
420
400
380
360
340
320
300
280
260
240
220

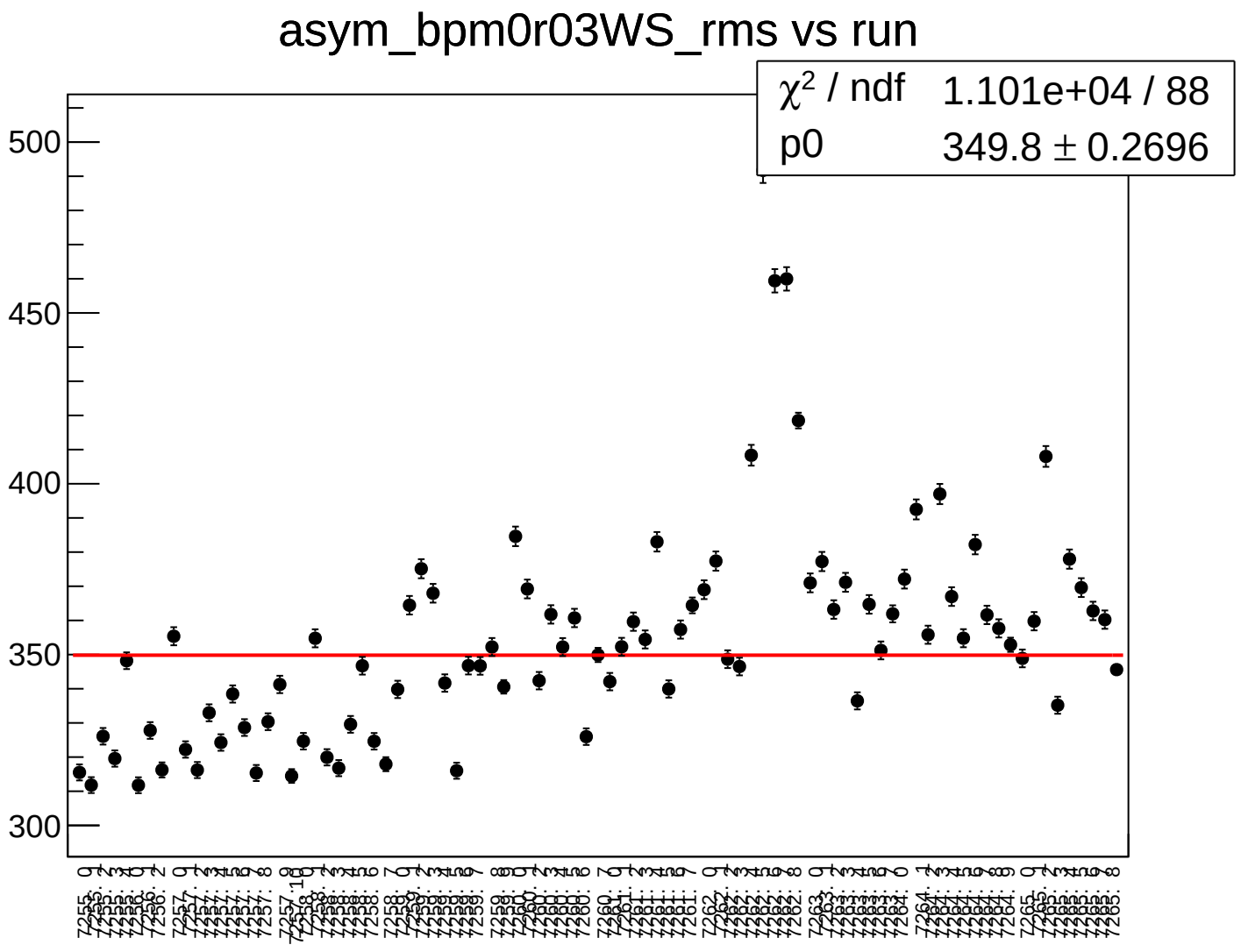

asym_bpm0l10WS_mean vs run
χ² / ndf 37.62 / 88
p0 1561 ± 305.3
pull
Entries 89
Mean 330.1
Std Dev 0

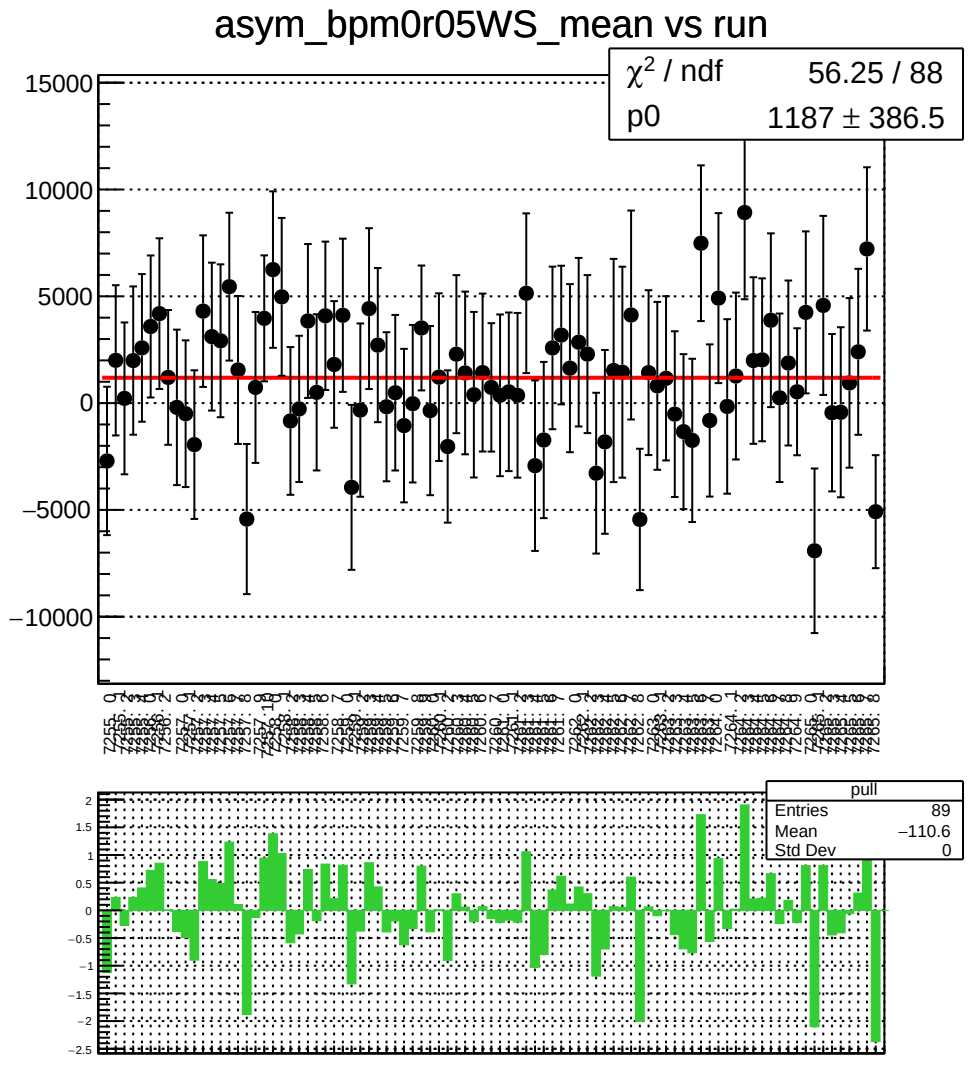

pull1D
Entries 89
Mean −0.01325
Std Dev 0.65

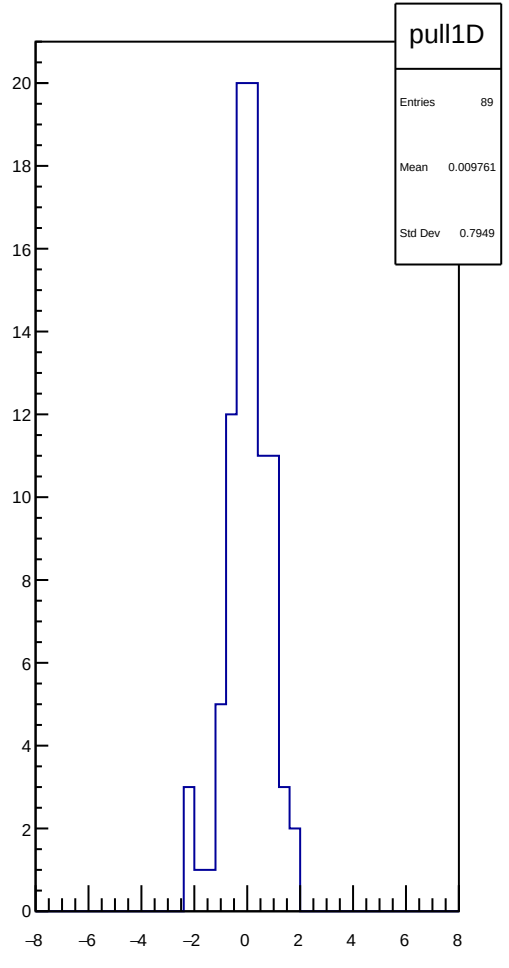

asym_bpm0l10WS_rms vs run
χ^2 / ndf 1.928e+04 / 88
p0 279.5 ± 0.2159
450
400
350
300
250

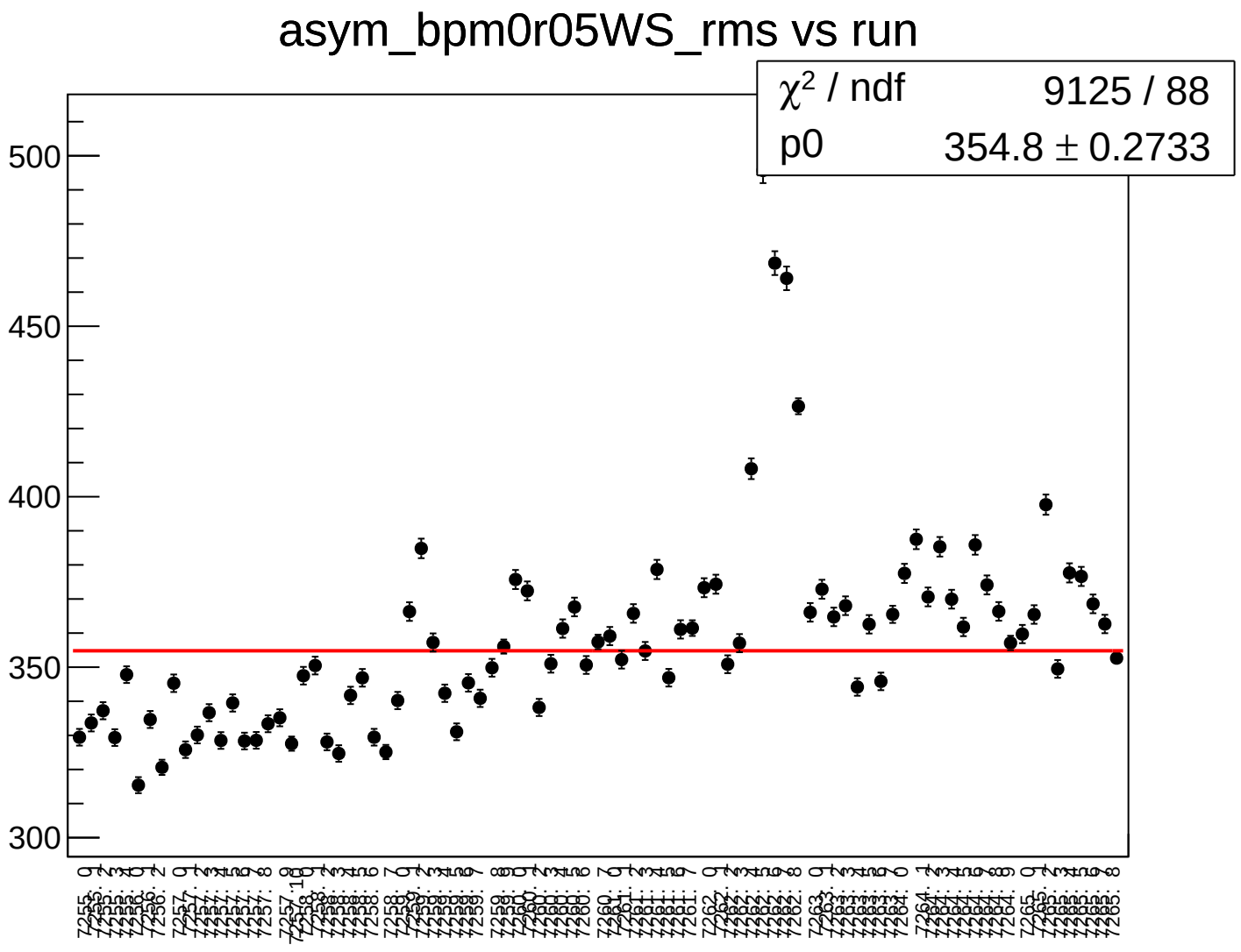

asym_bpm0r03WS_mean vs run
χ² / ndf 44.42 / 88
p0 1840 ± 381.2
15000
10000
5000
0
−5000
pull
Entries 89
Mean 2945
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

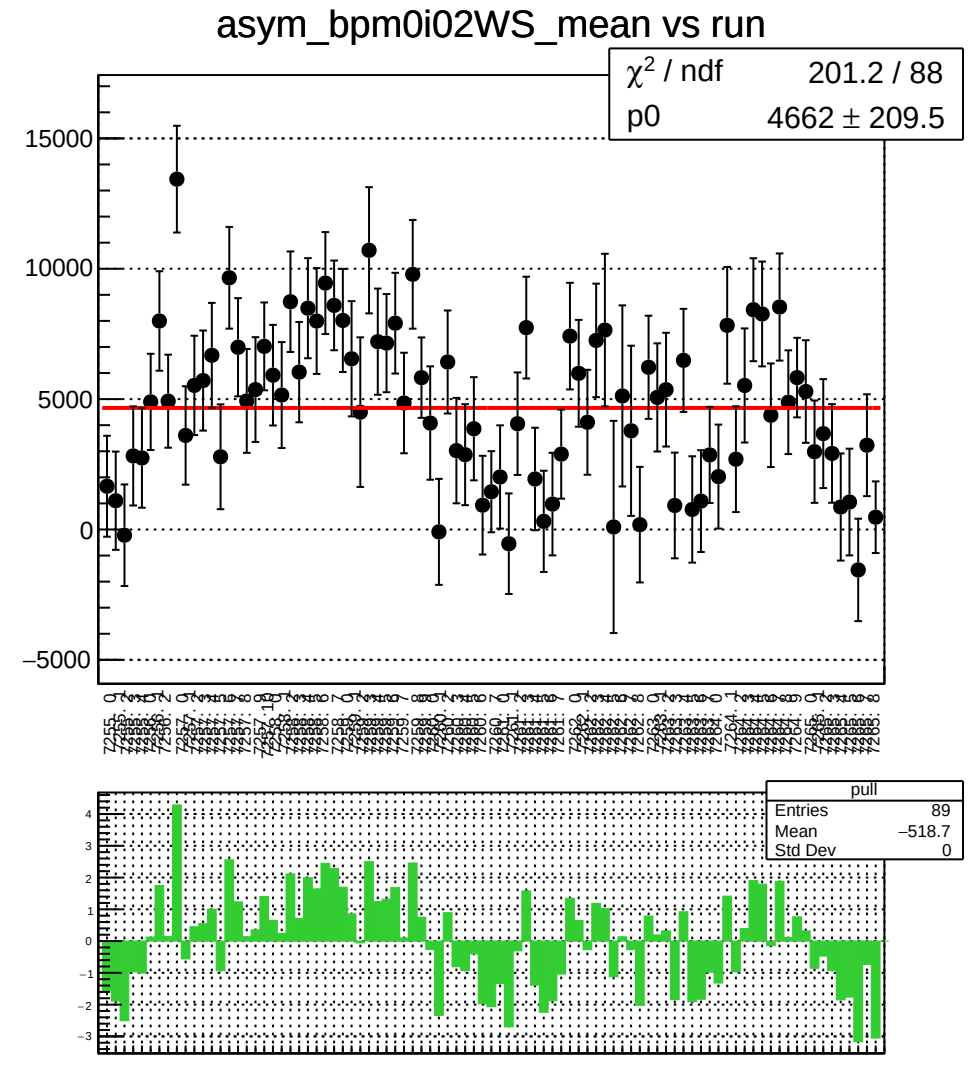

pull1D
Entries 89
Mean −0.0006758
Std Dev 0.7065
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

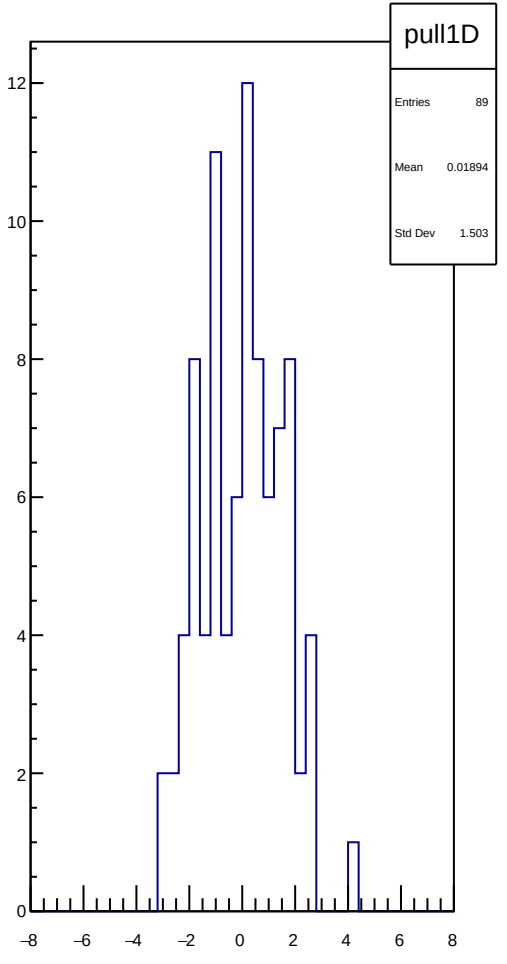

asym_bpm0r03WS_rms vs run
χ² / ndf 1.101e+04 / 88
p0 349.8 ± 0.2696
500
450
400
350
300

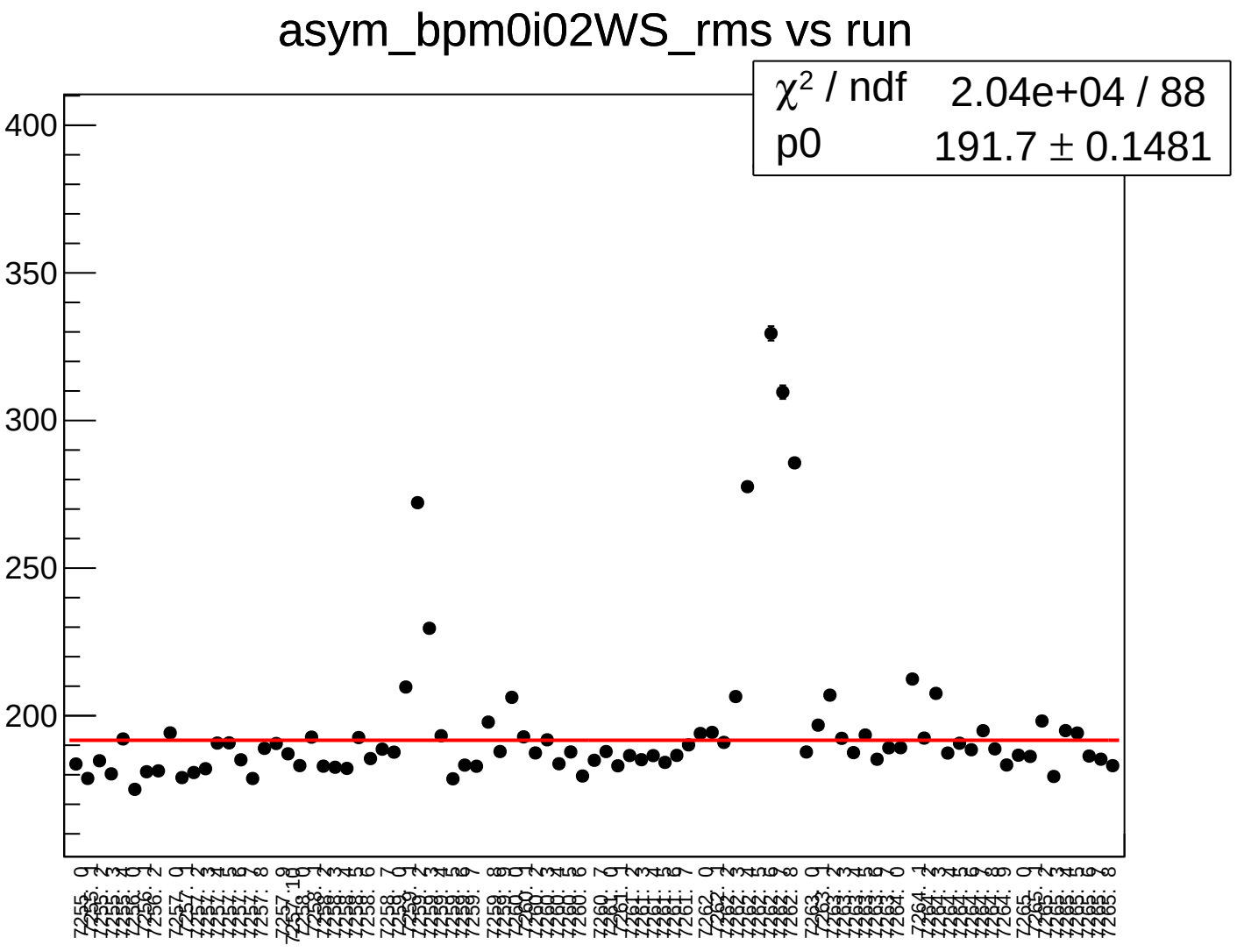

asym_bpm0r05WS_mean vs run
χ² / ndf 56.25 / 88
p0 1187 ± 386.5
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −110.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

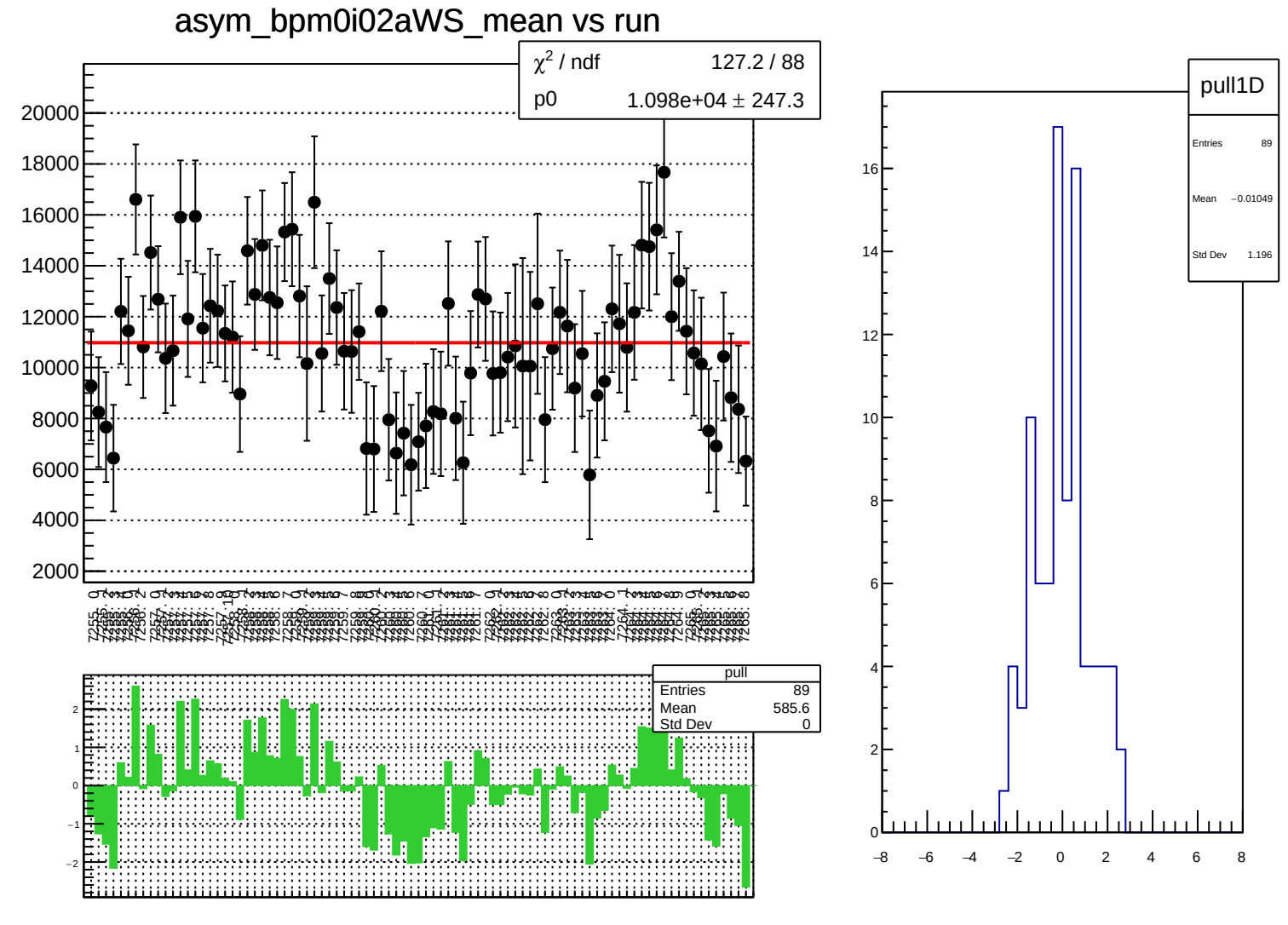

pull1D
Entries 89
Mean 0.009761
Std Dev 0.7949
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

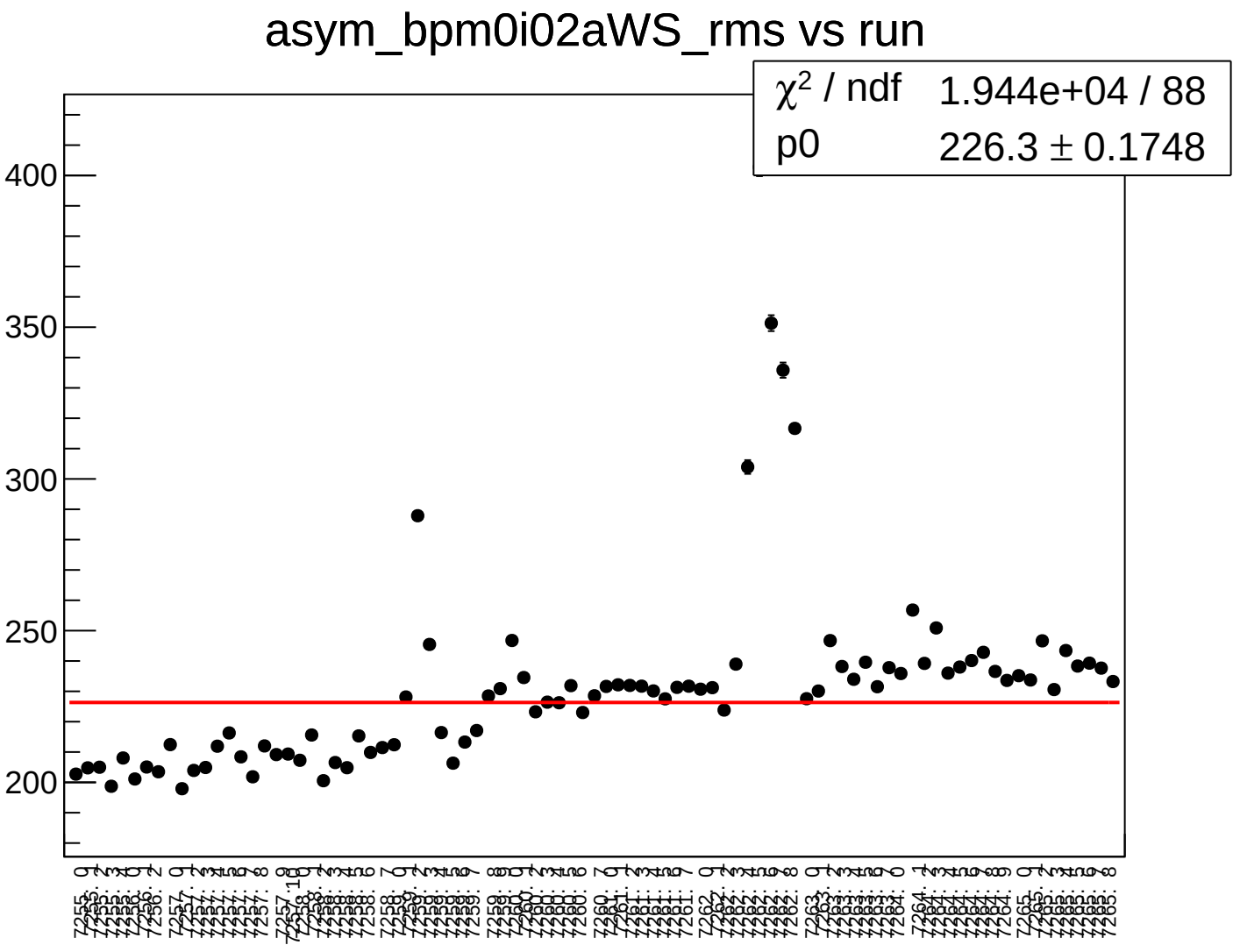

asym_bpm0r05WS_rms vs run
χ² / ndf 9125 / 88
p0 354.8 ± 0.2733
500
450
400
350
300

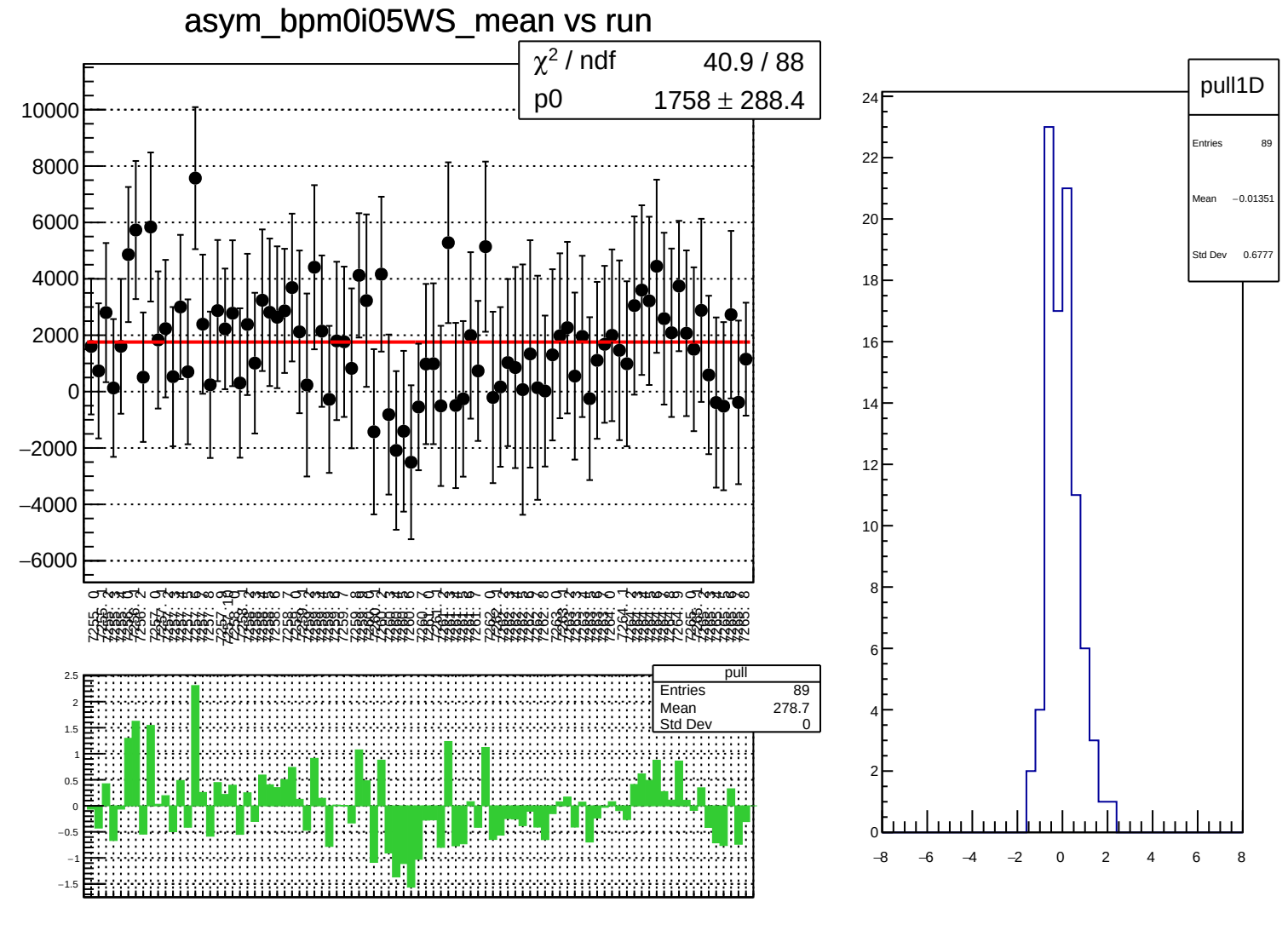

asym_bpm0i02WS_mean vs run
χ² / ndf 201.2 / 88
p0 4662 ± 209.5
15000
10000
5000
0
−5000
pull
Entries 89
Mean −518.7
Std Dev 0
4
3
2
1
0
−1
−2
−3

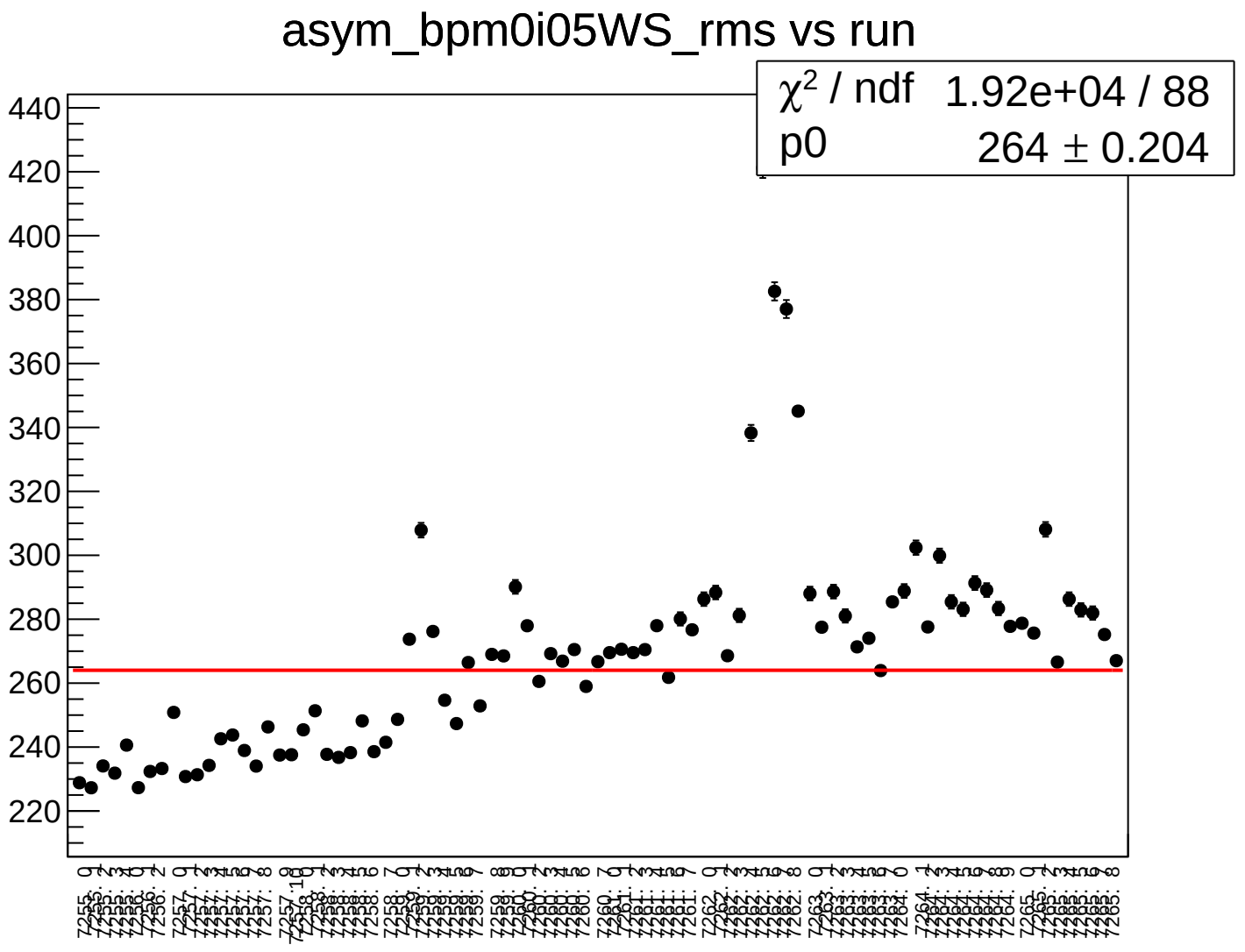

pull1D
Entries 89
Mean 0.01894
Std Dev 1.503
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

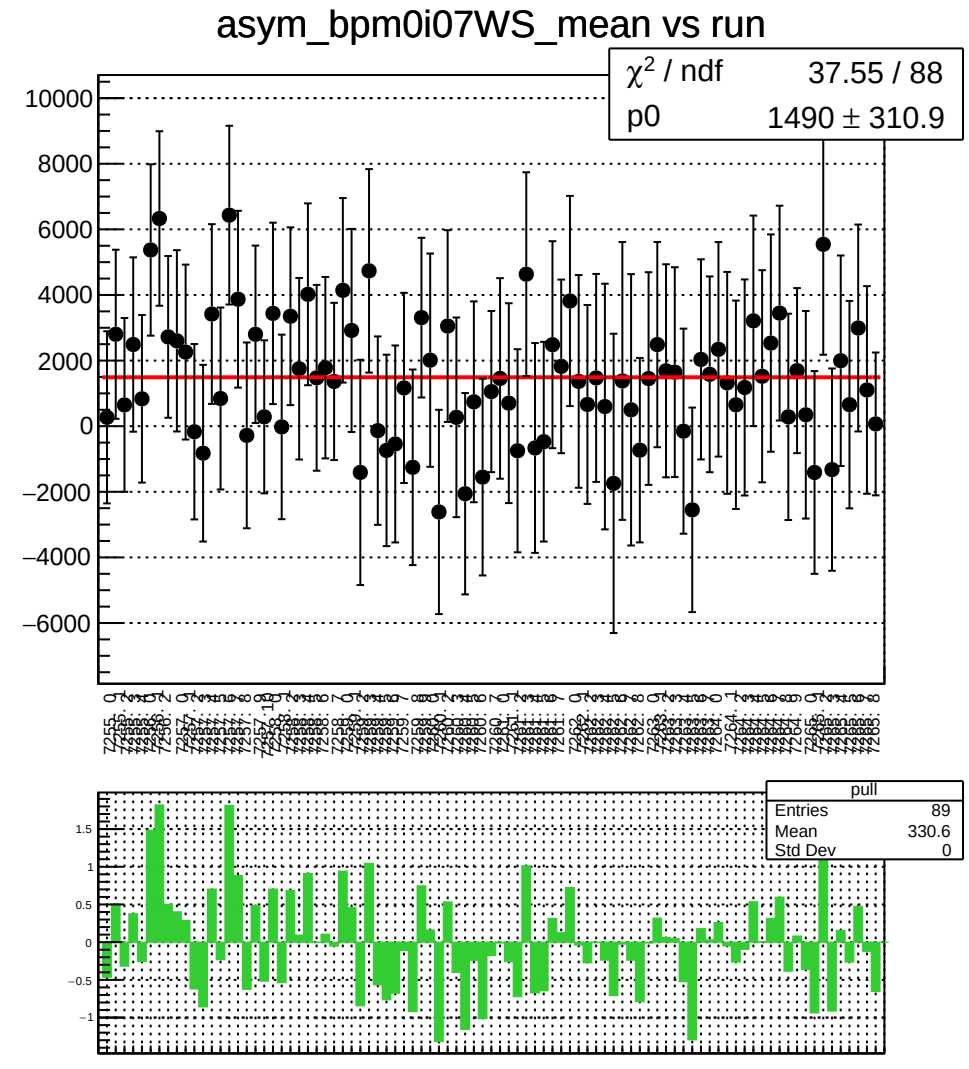

asym_bpm0i02WS_rms vs run
χ² / ndf 2.04e+04 / 88
p0 191.7 ± 0.1481
400
350
300
250
200

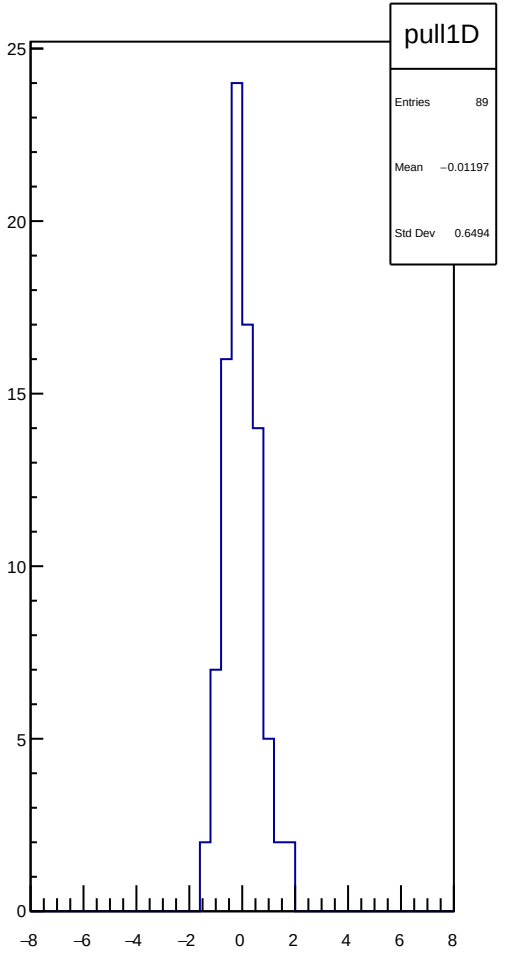

asym_bpm0i02aWS_mean vs run
χ² / ndf 127.2 / 88
p0 1.098e+04 ± 247.3
pull
Entries 89
Mean 585.6
Std Dev 0
pull1D
Entries 89
Mean −0.01049
Std Dev 1.196

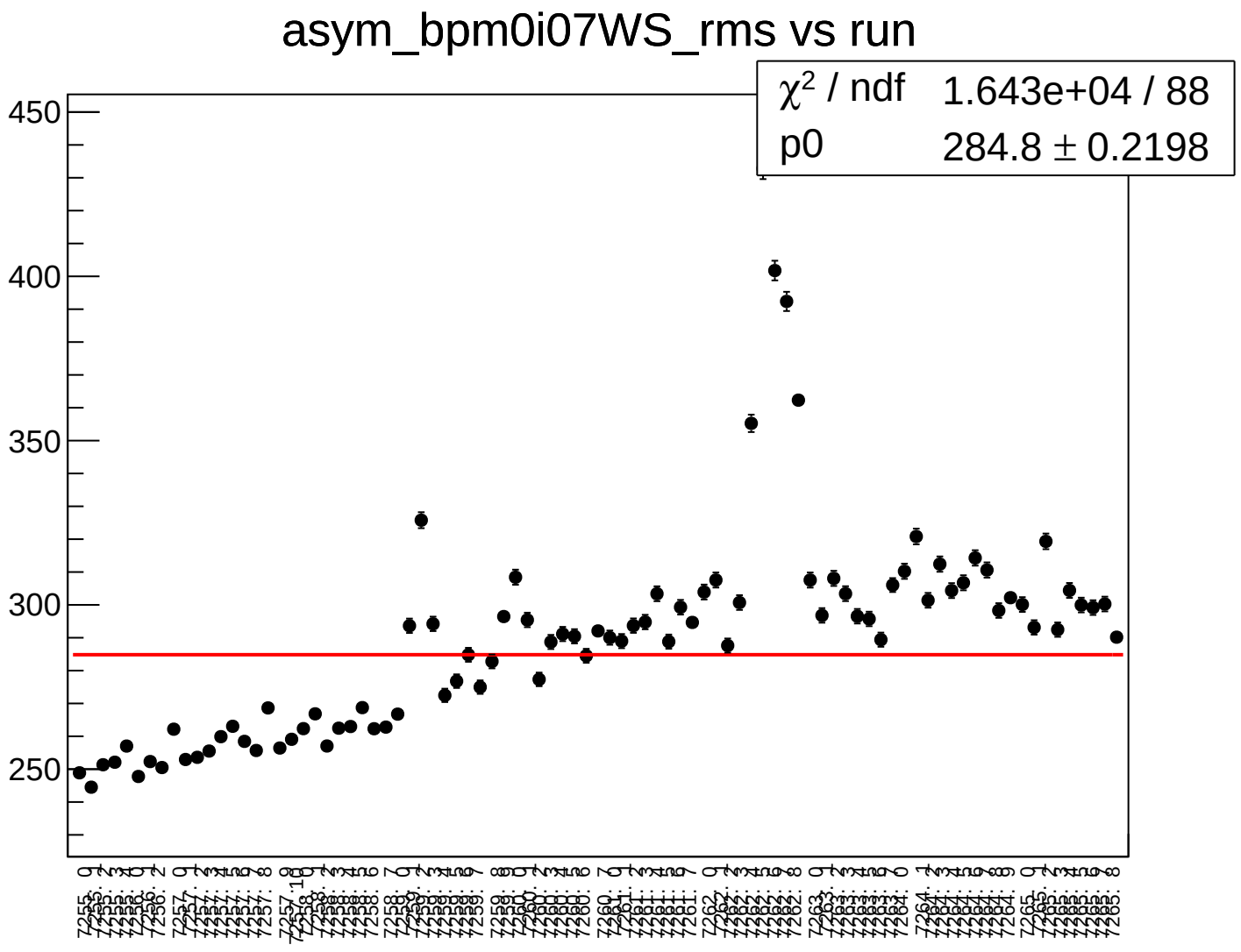

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.944e+04 / 88
p0 226.3 ± 0.1748
400
350
300
250
200

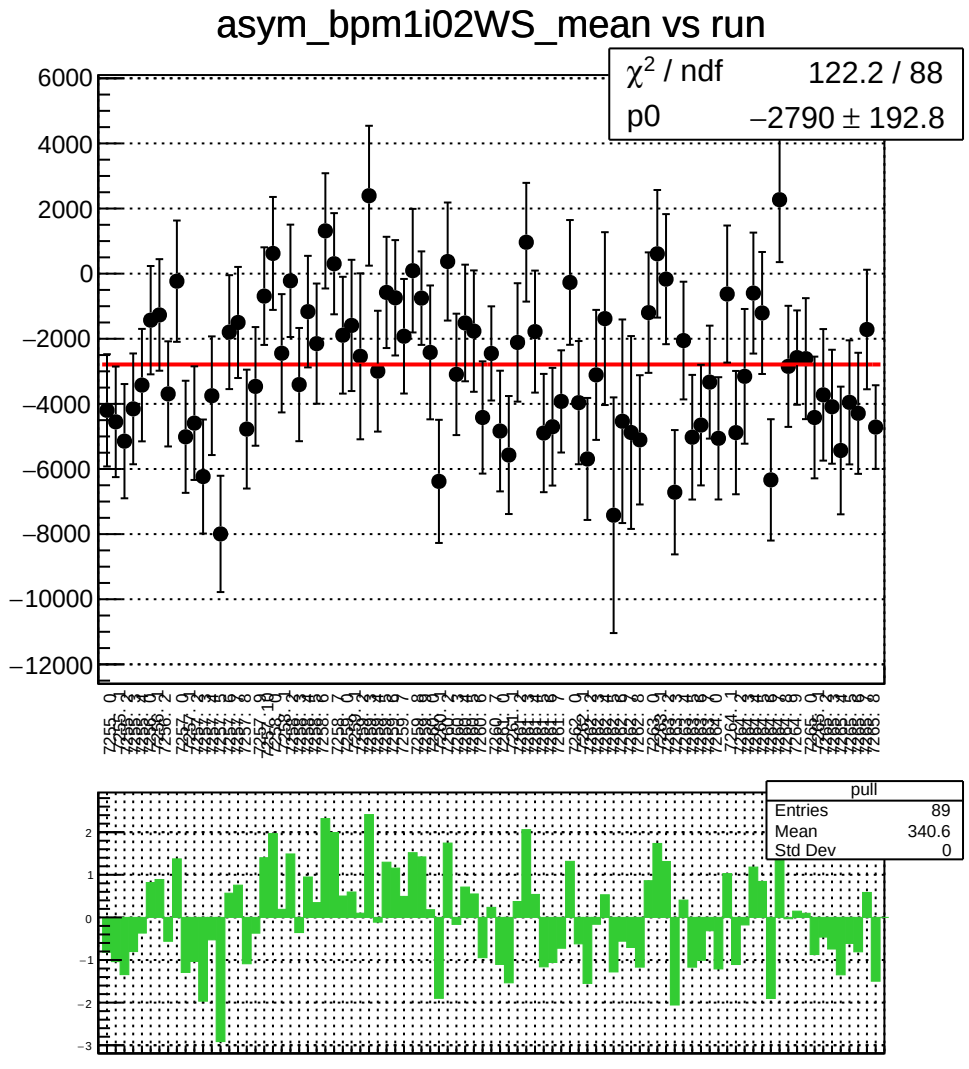

asym_bpm0i05WS_mean vs run
χ^2 / ndf 40.9 / 88
p0 1758 ± 288.4
pull
Entries 89
Mean 278.7
Std Dev 0
pull1D
Entries 89
Mean −0.01351
Std Dev 0.6777

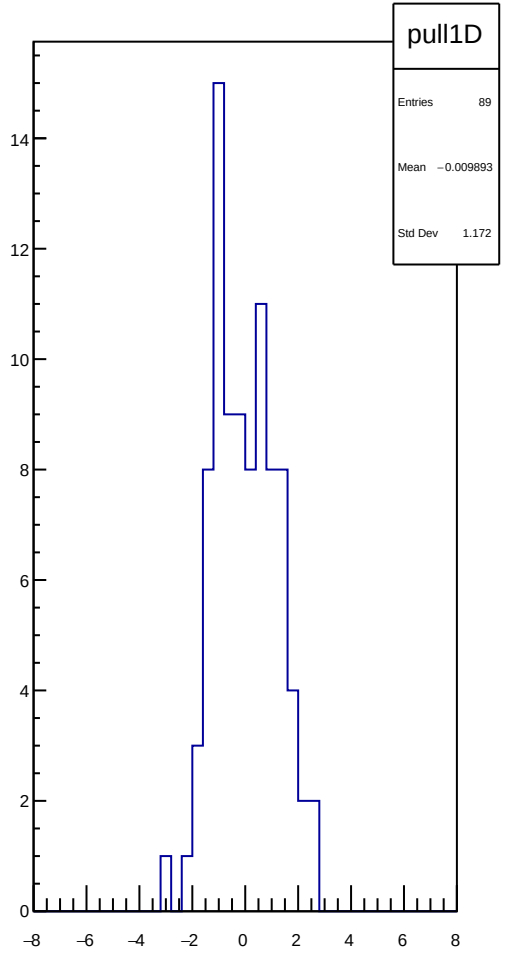

asym_bpm0i05WS_rms vs run
χ^2 / ndf 1.92e+04 / 88
p0 264 ± 0.204
440
420
400
380
360
340
320
300
280
260
240
220

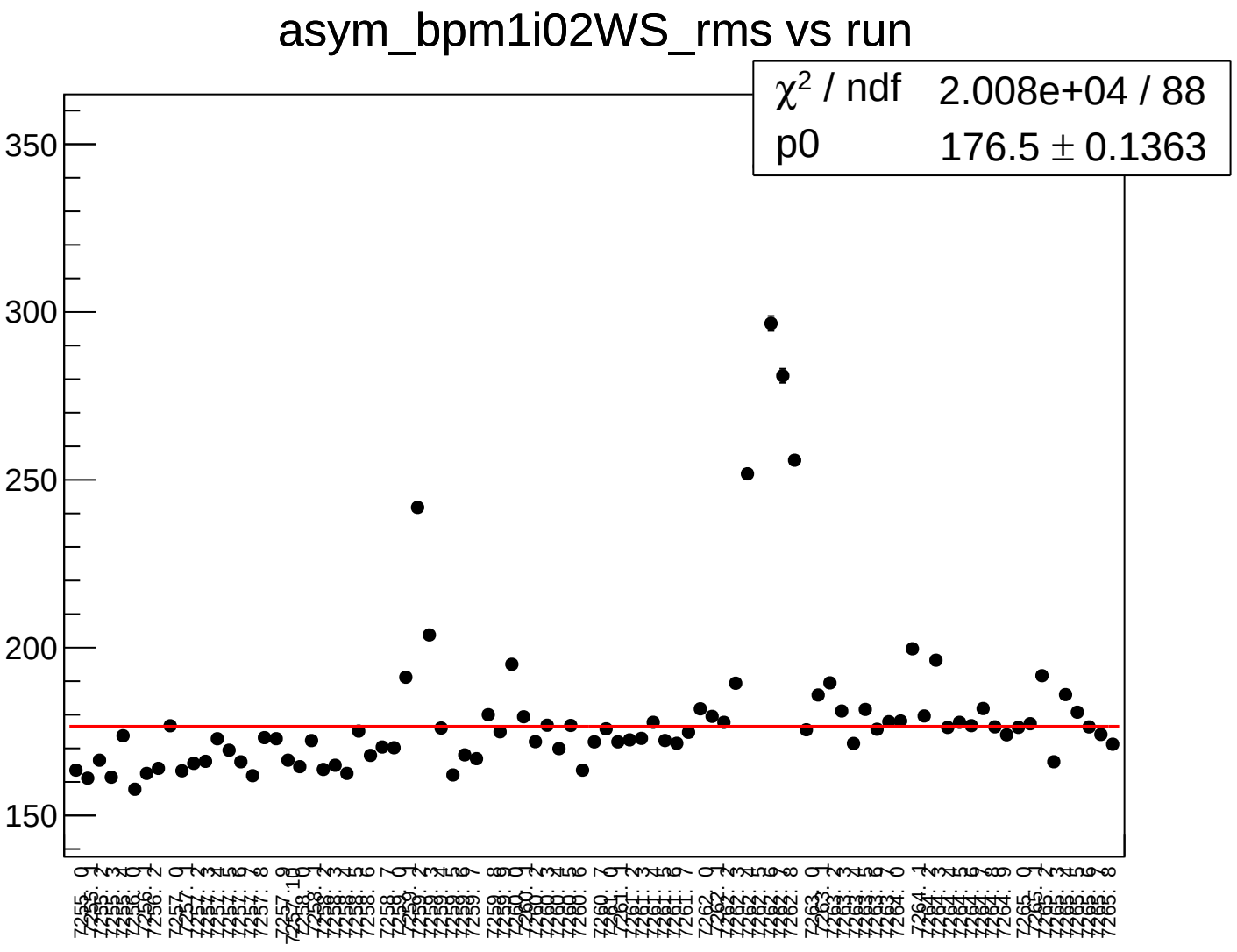

asym_bpm0i07WS_mean vs run
χ² / ndf 37.55 / 88
p0 1490 ± 310.9
pull
Entries 89
Mean 330.6
Std Dev 0

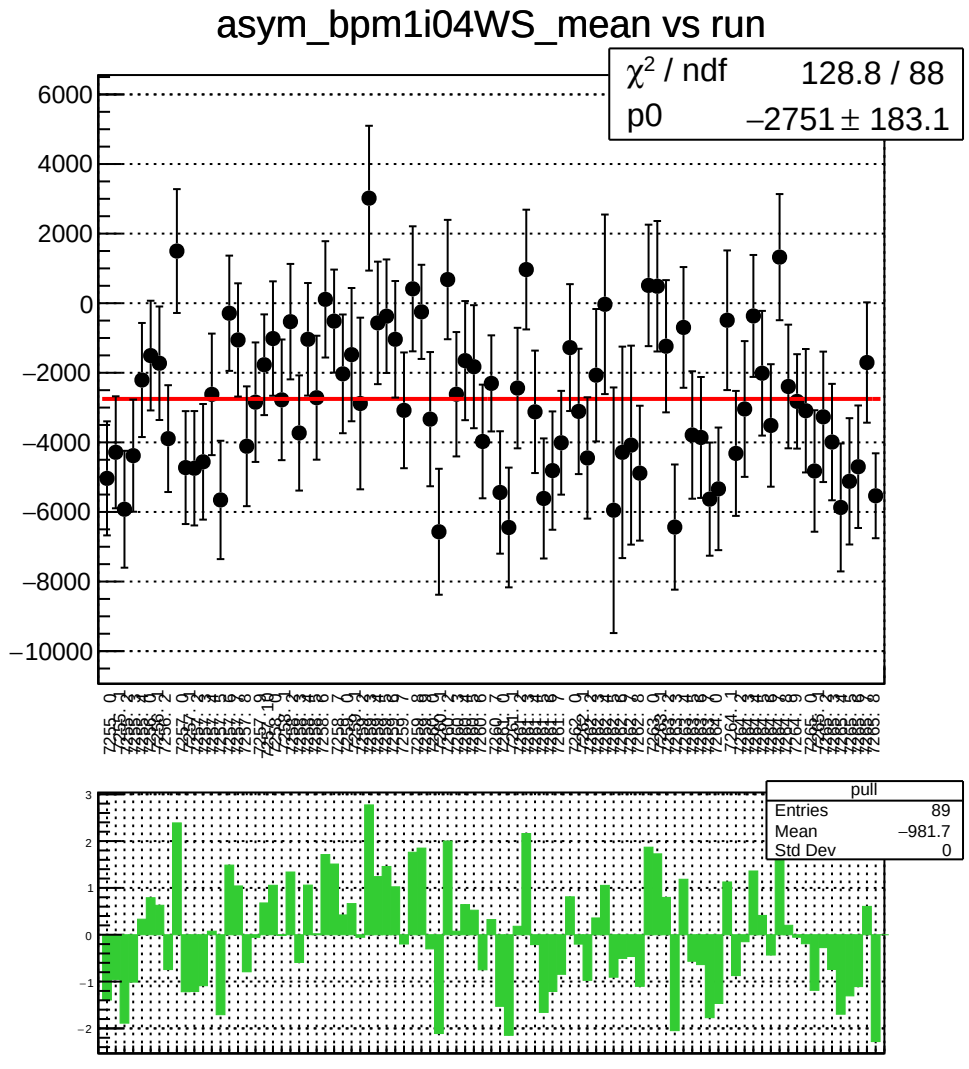

pull1D
Entries 89
Mean −0.01197
Std Dev 0.6494

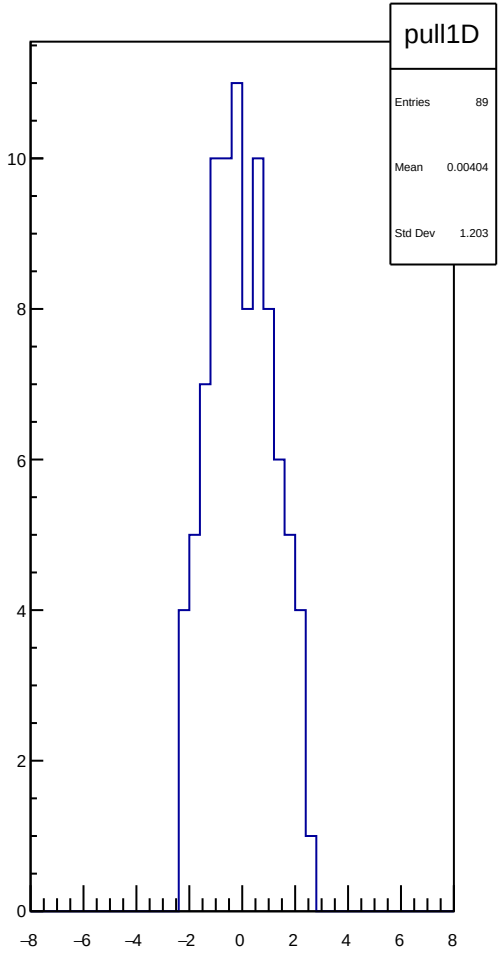

asym_bpm0i07WS_rms vs run
χ² / ndf 1.643e+04 / 88
p0 284.8 ± 0.2198
450
400
350
300
250

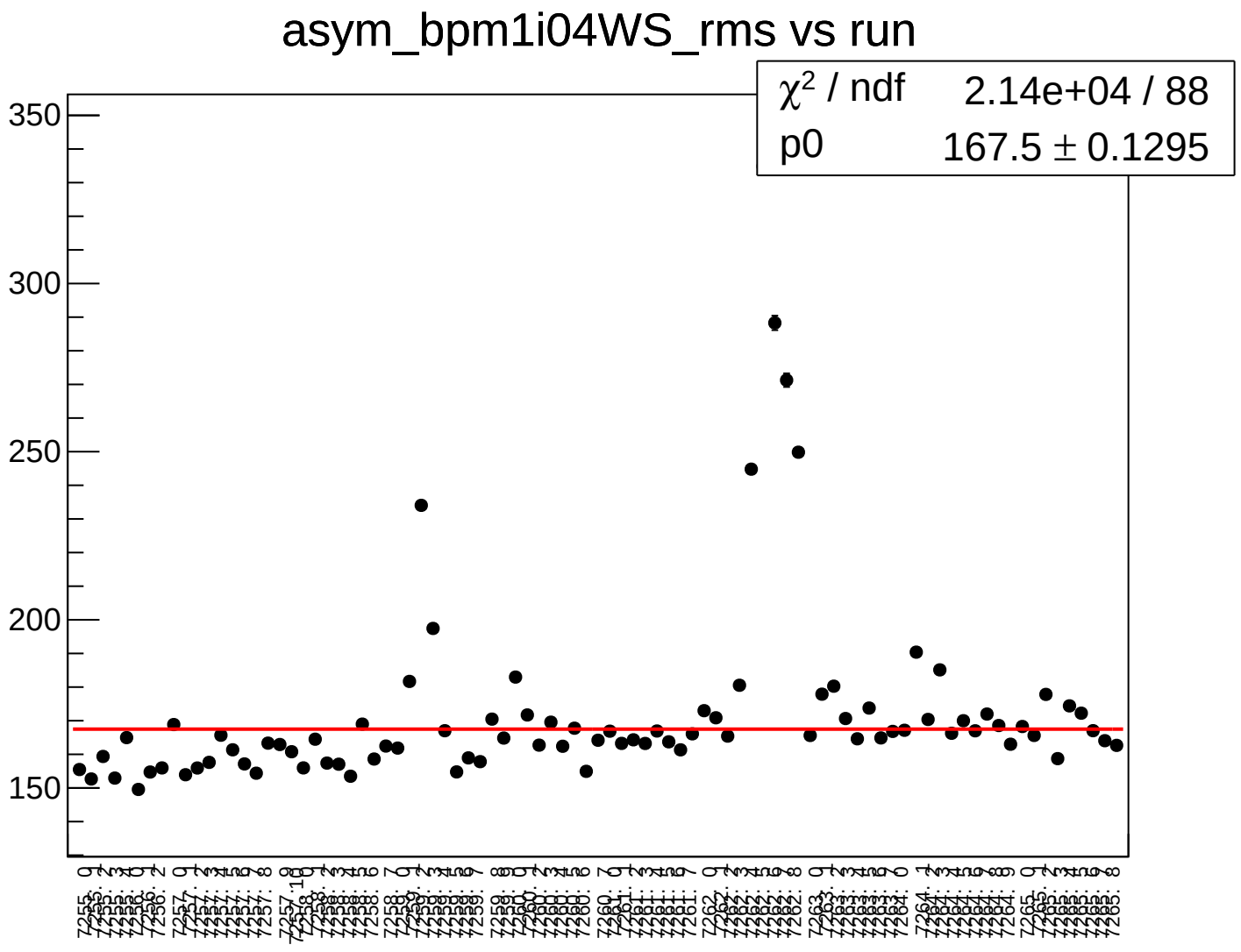

asym_bpm1i02WS_mean vs run
χ² / ndf 122.2 / 88
p0 −2790 ± 192.8
pull
Entries 89
Mean 340.6
Std Dev 0

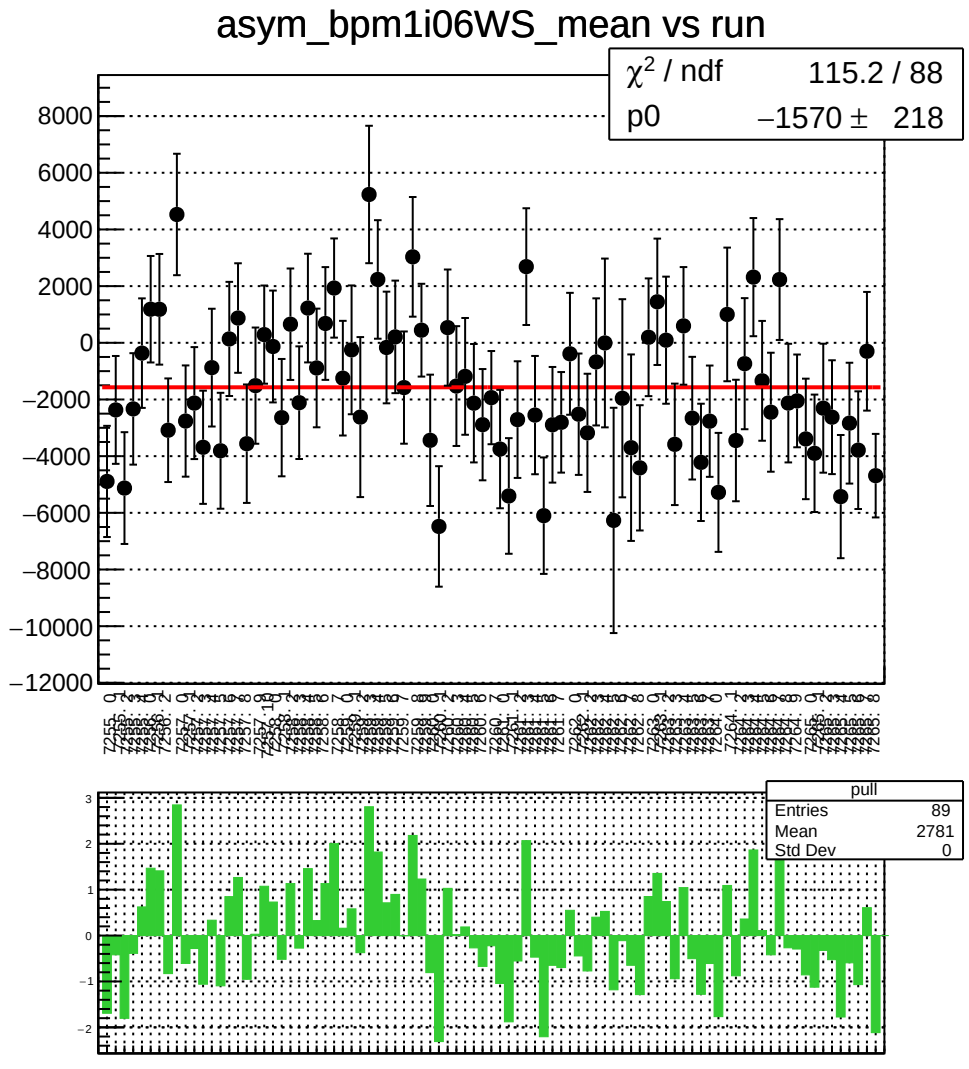

pull1D
Entries 89
Mean −0.009893
Std Dev 1.172

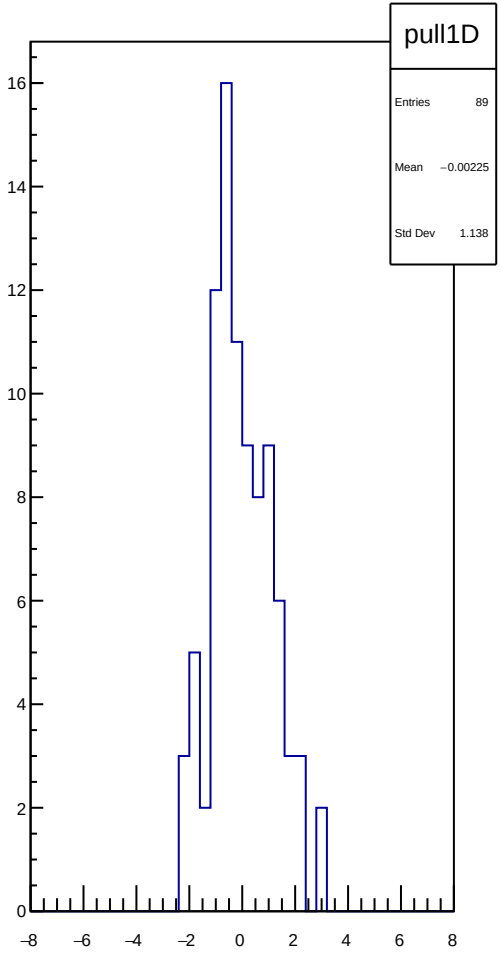

asym_bpm1i02WS_rms vs run
χ² / ndf 2.008e+04 / 88
p0 176.5 ± 0.1363
350
300
250
200
150

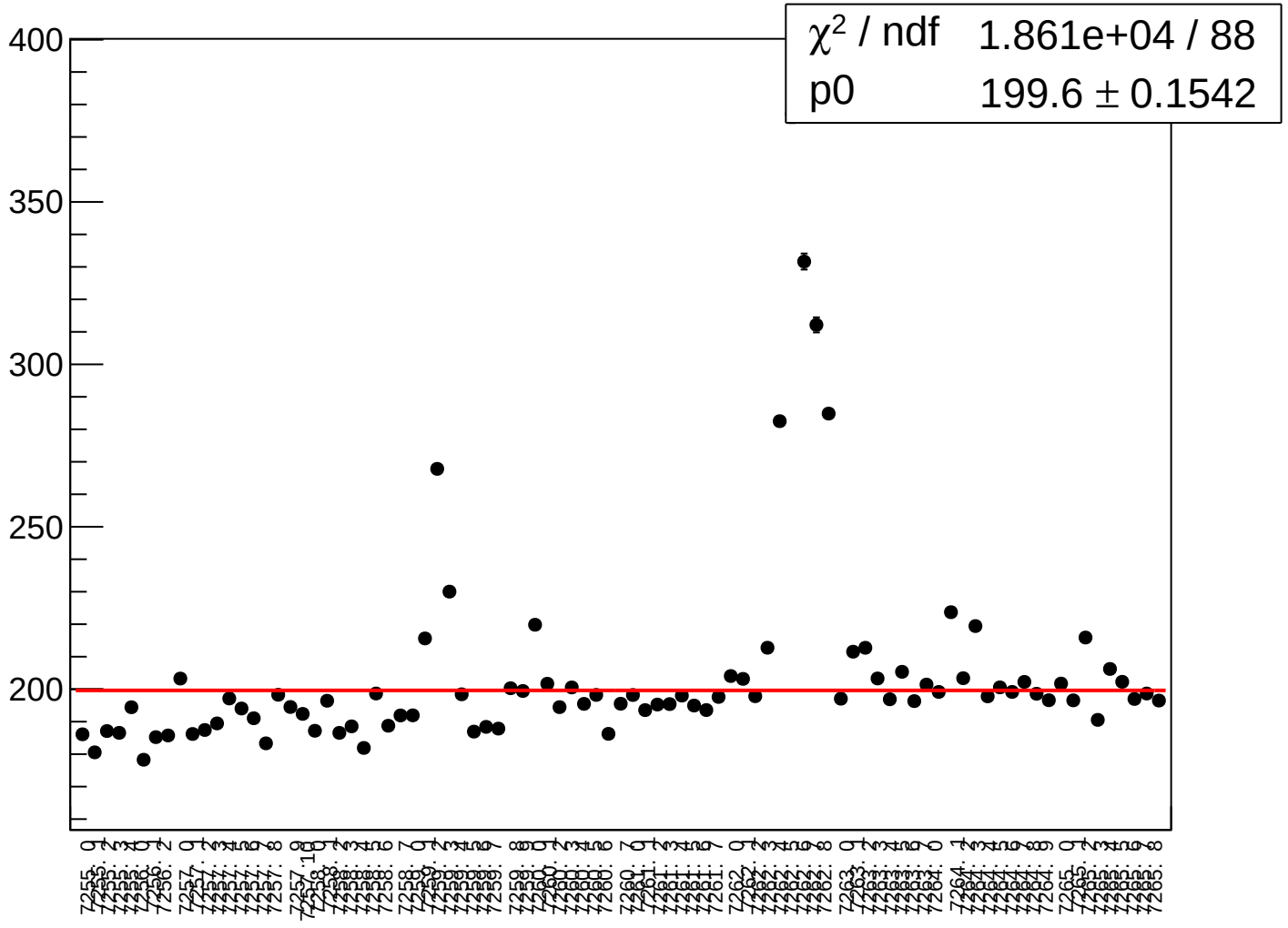

asym_bpm1i04WS_mean vs run
χ² / ndf 128.8 / 88
p0 −2751 ± 183.1
pull
Entries 89
Mean −981.7
Std Dev 0

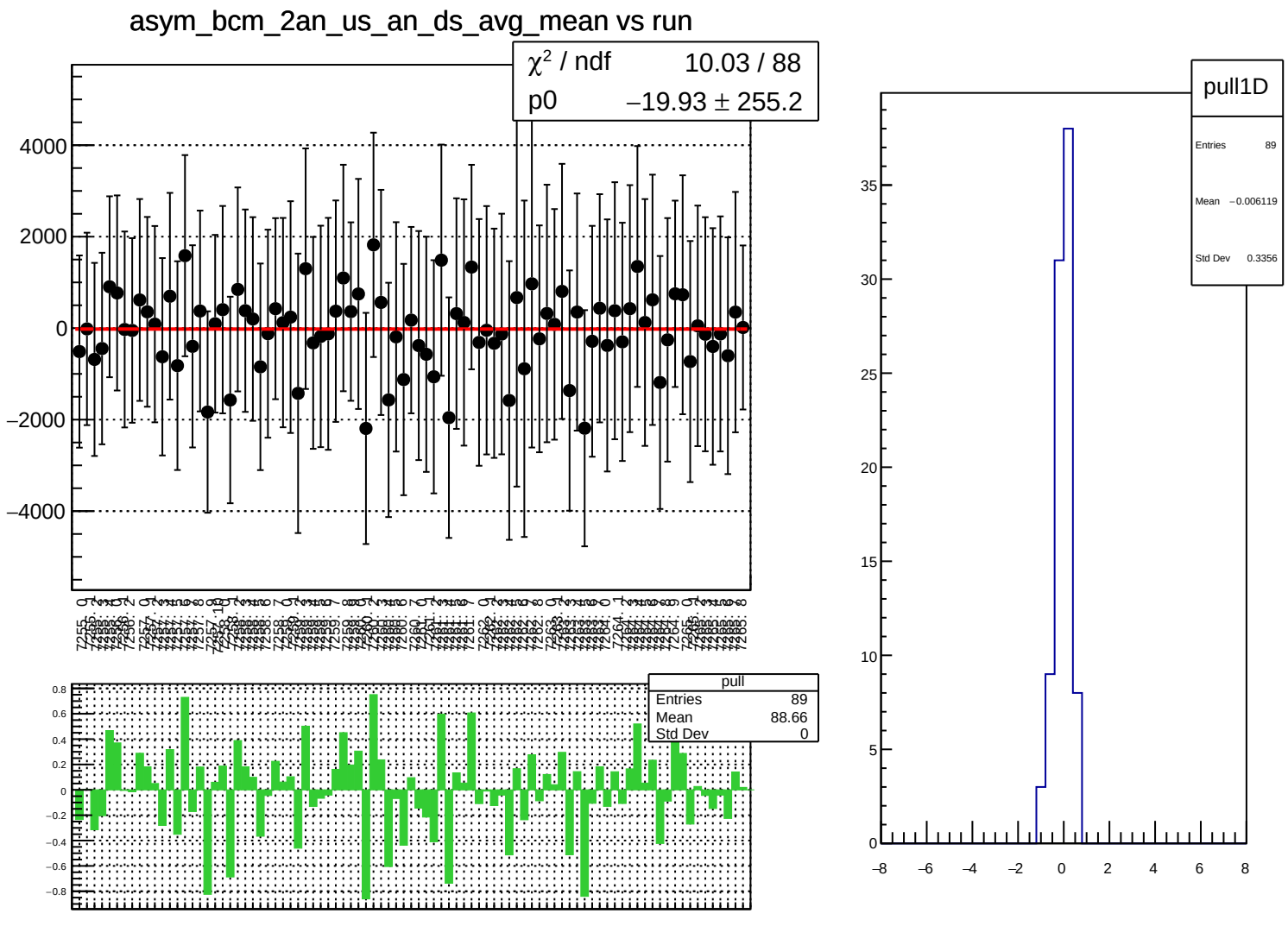

pull1D
Entries 89
Mean 0.00404
Std Dev 1.203

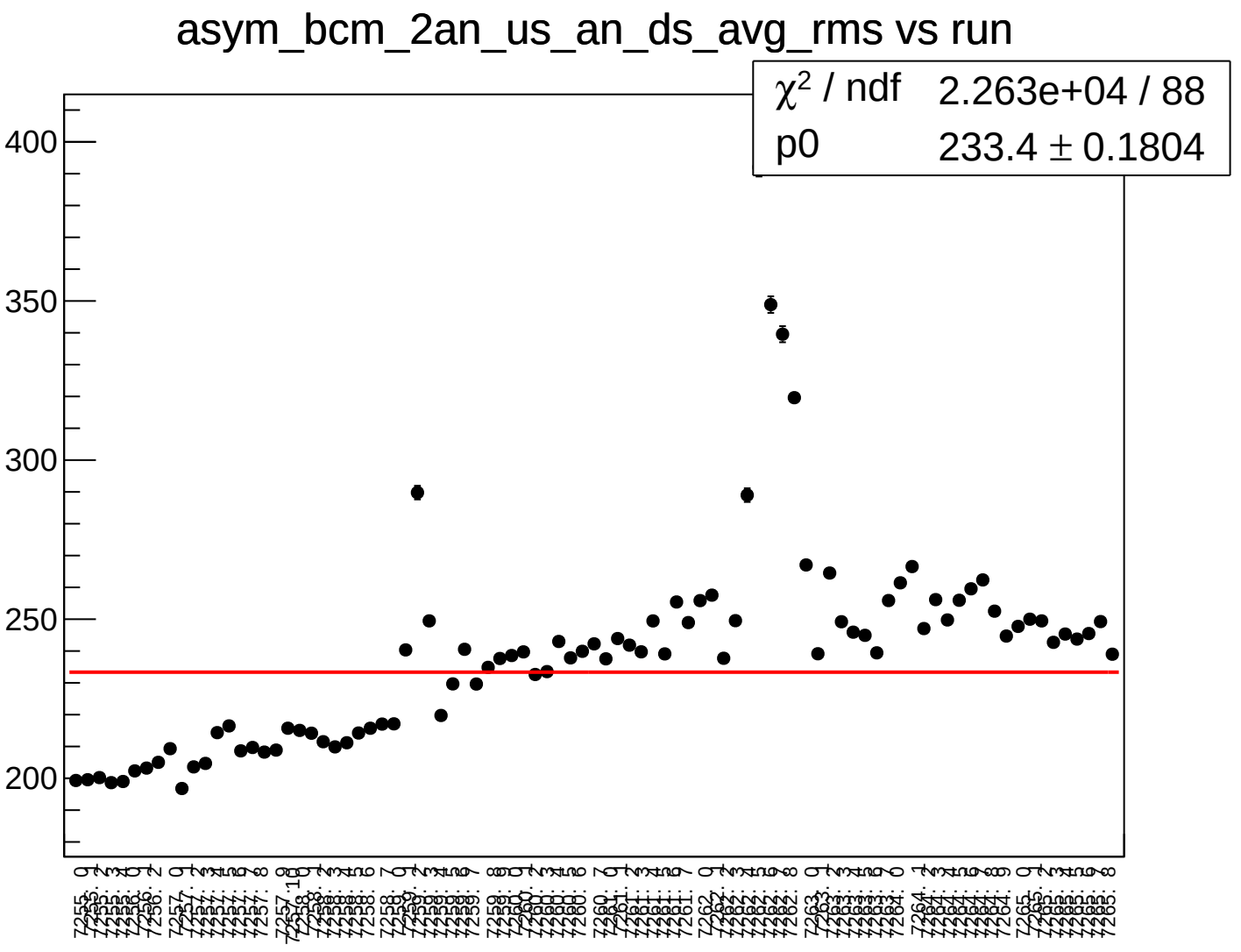

asym_bpm1i04WS_rms vs run
χ² / ndf 2.14e+04 / 88
p0 167.5 ± 0.1295
350
300
250
200
150

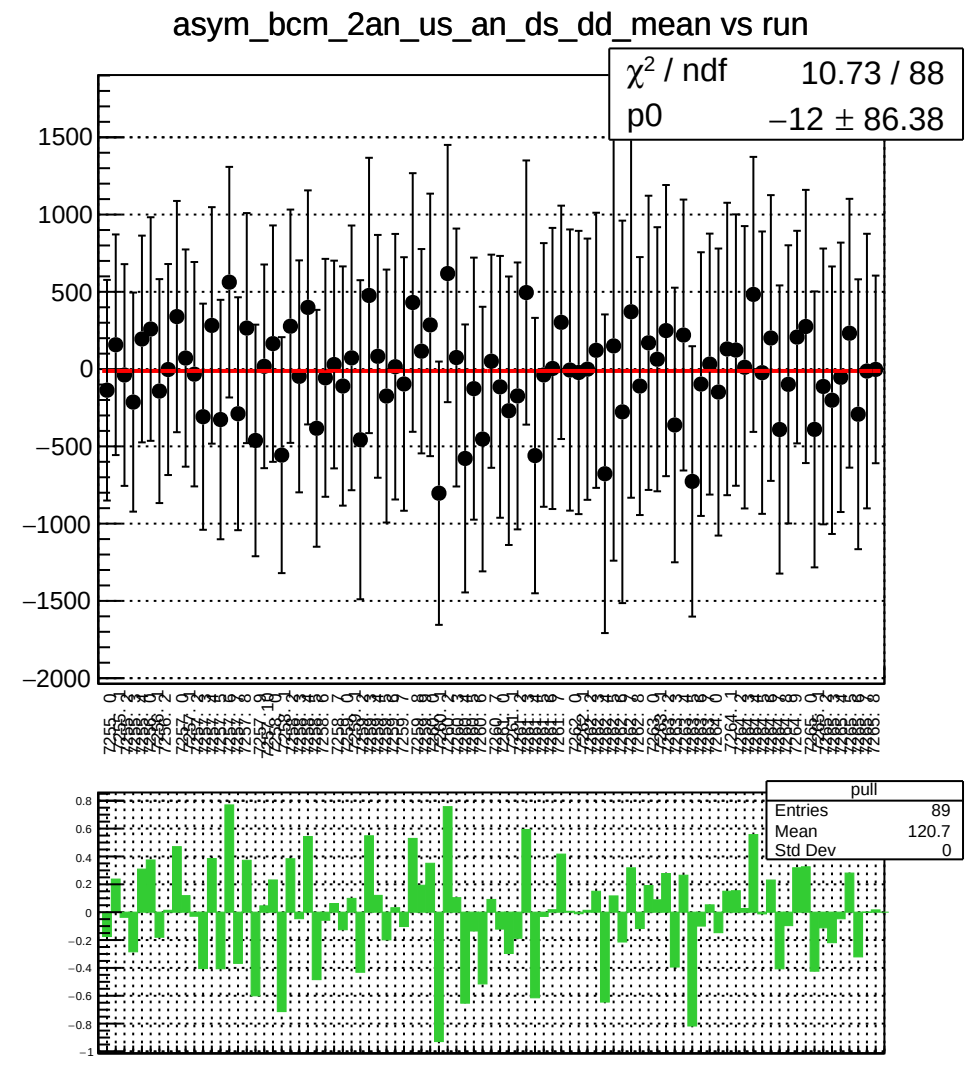

asym_bpm1i06WS_mean vs run
χ² / ndf 115.2 / 88
p0 −1570 ± 218
pull
Entries 89
Mean 2781
Std Dev 0

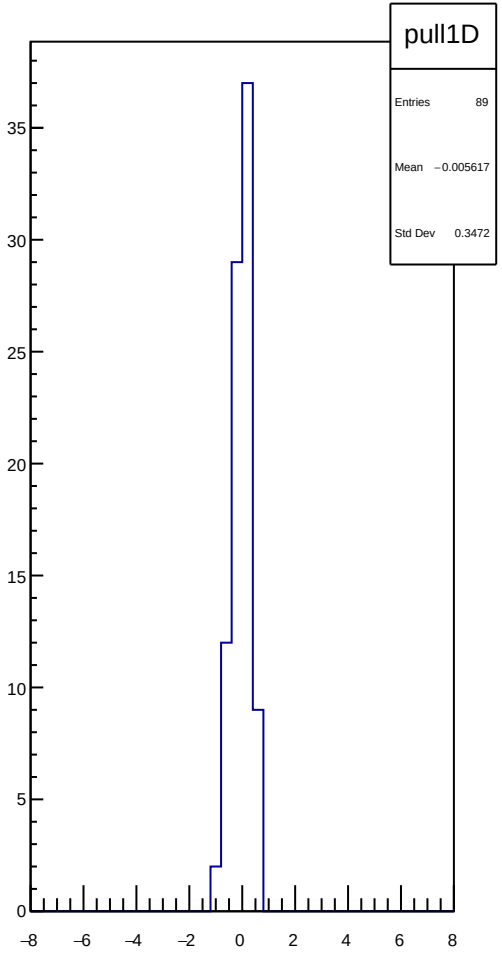

pull1D
Entries 89
Mean −0.00225
Std Dev 1.138

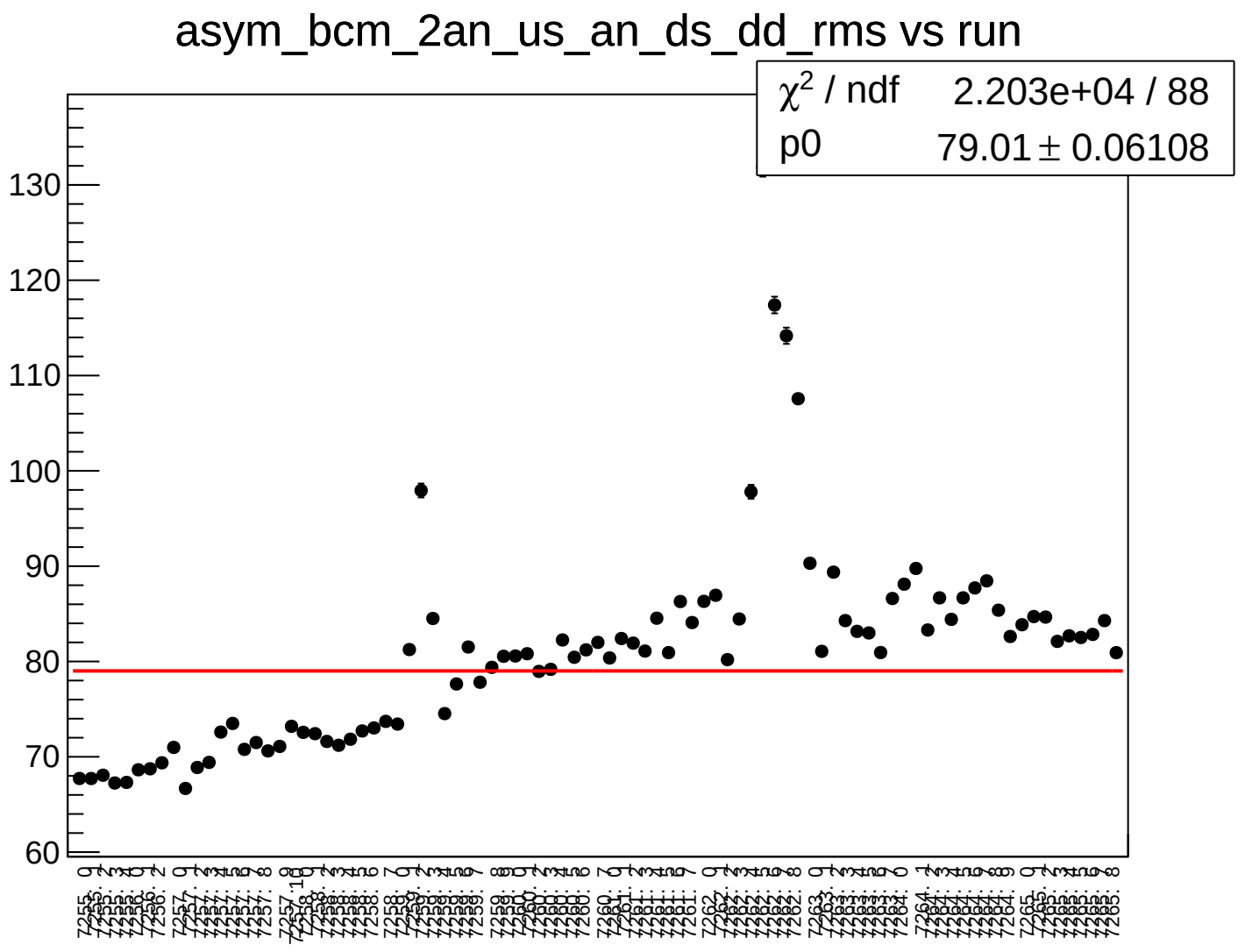

asym_bpm1i06WS_rms vs run
χ² / ndf 1.861e+04 / 88
p0 199.6 ± 0.1542
400
350
300
250
200

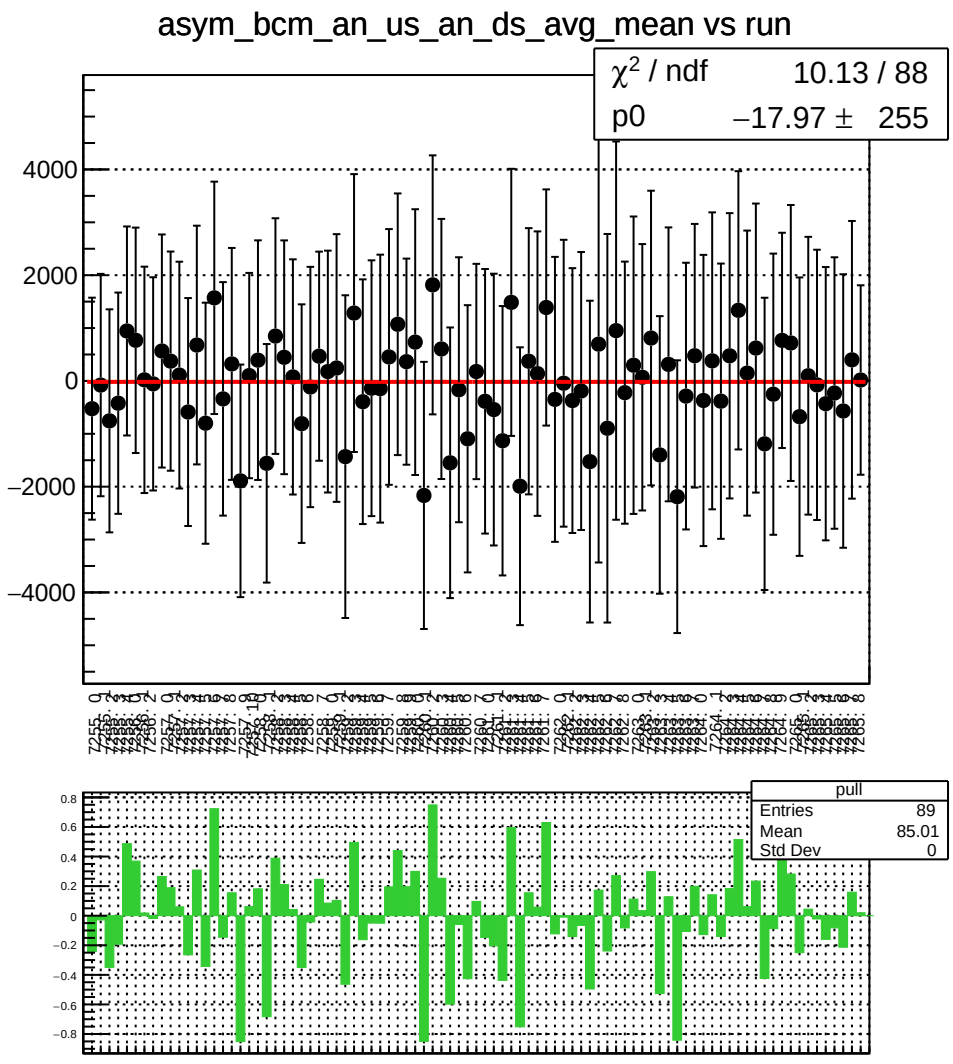

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 10.03 / 88
p0 −19.93 ± 255.2
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 88.66
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 89
Mean −0.006119
Std Dev 0.3356
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

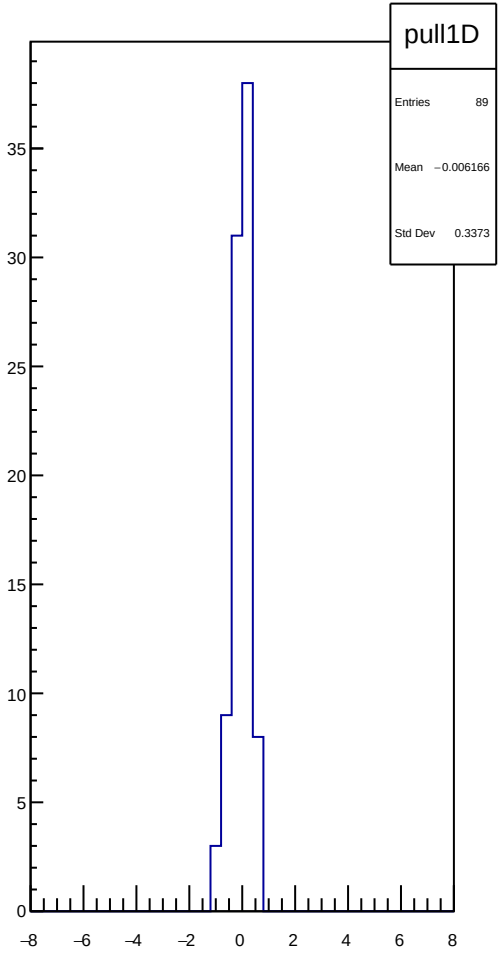

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 2.263e+04 / 88
p0 233.4 ± 0.1804
400
350
300
250
200

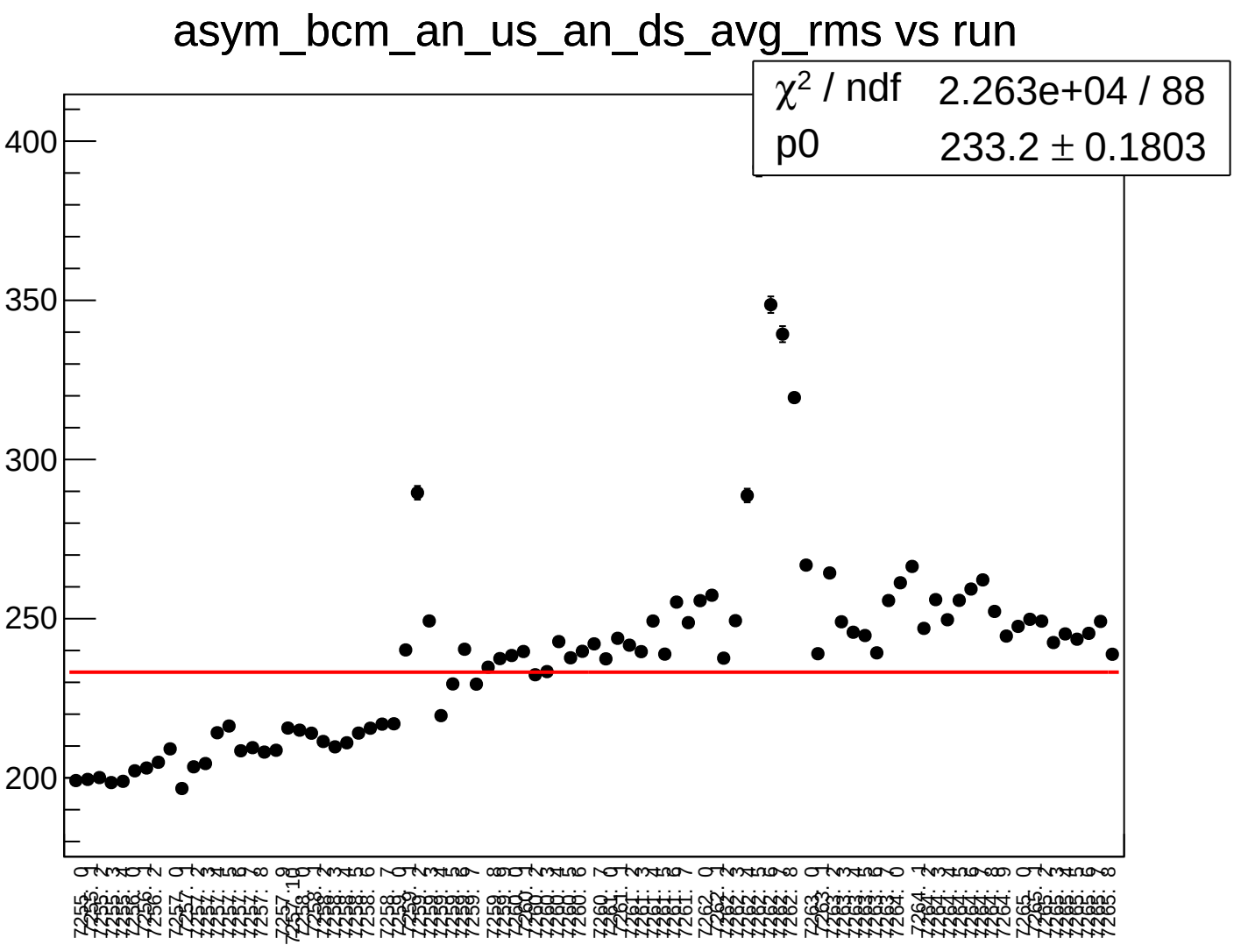

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 10.73 / 88
p0 −12 ± 86.38
pull
Entries 89
Mean 120.7
Std Dev 0

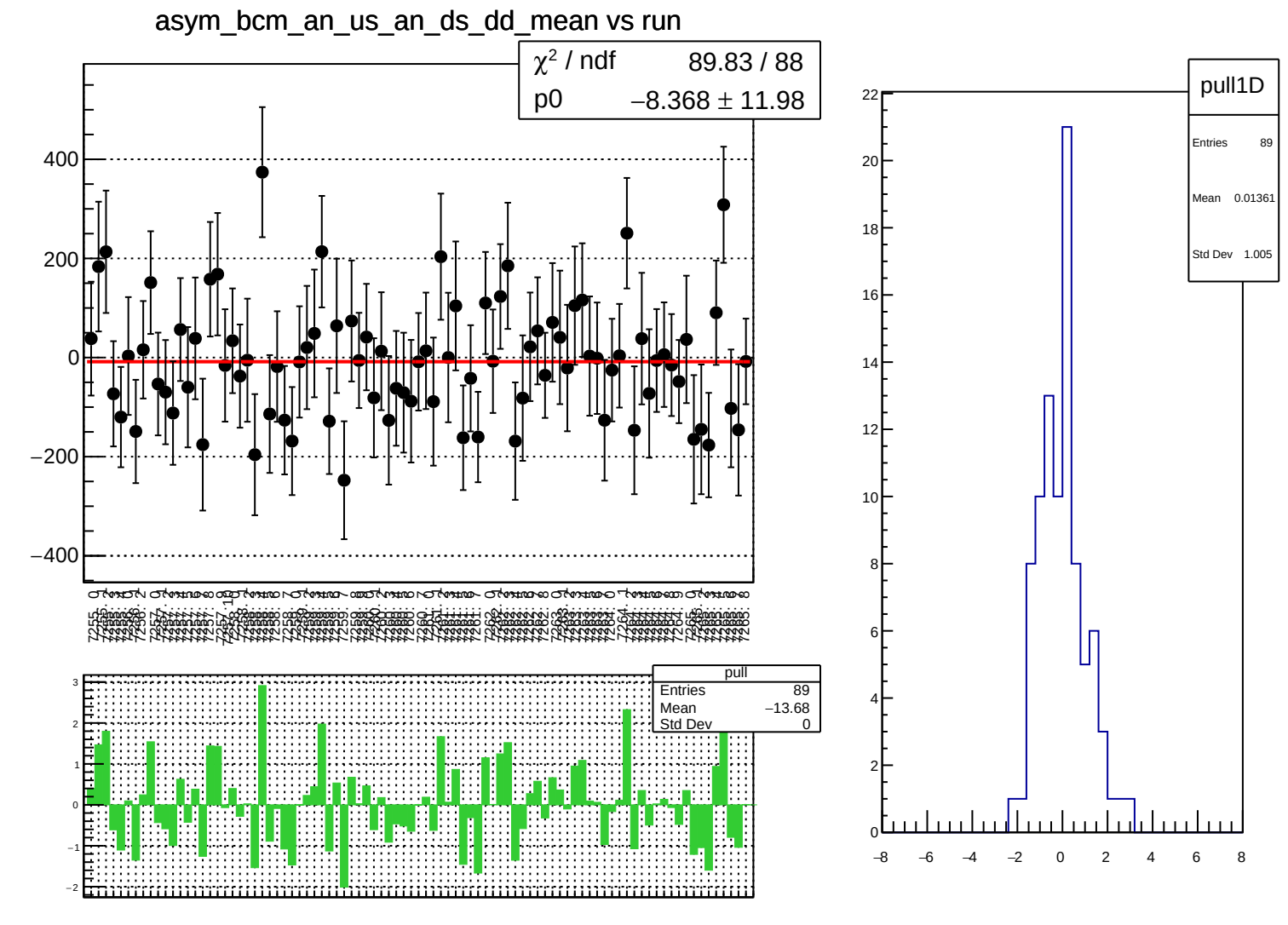

pull1D
Entries 89
Mean −0.005617
Std Dev 0.3472

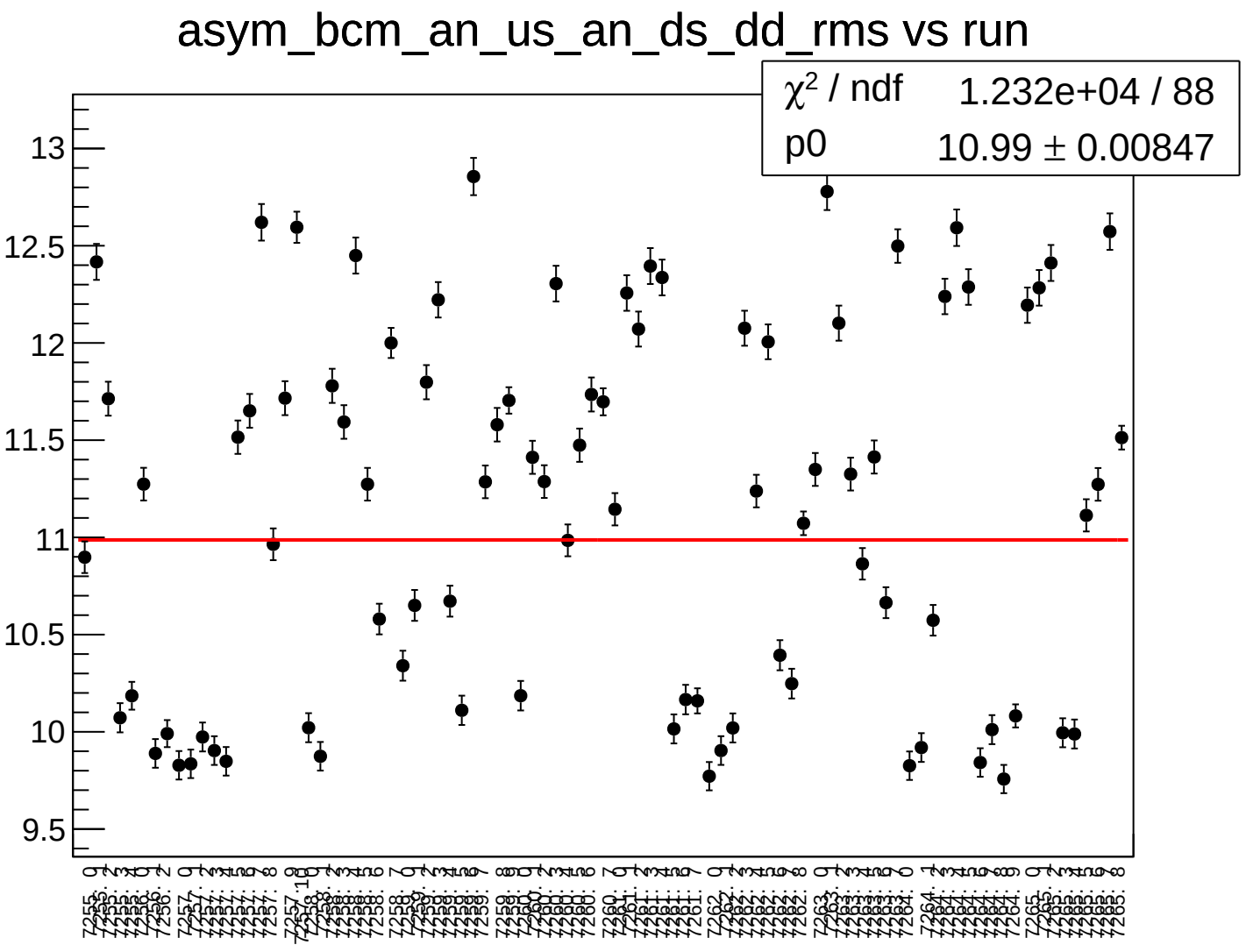

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 2.203e+04 / 88
p0 79.01 ± 0.06108
130
120
110
100
90
80
70
60

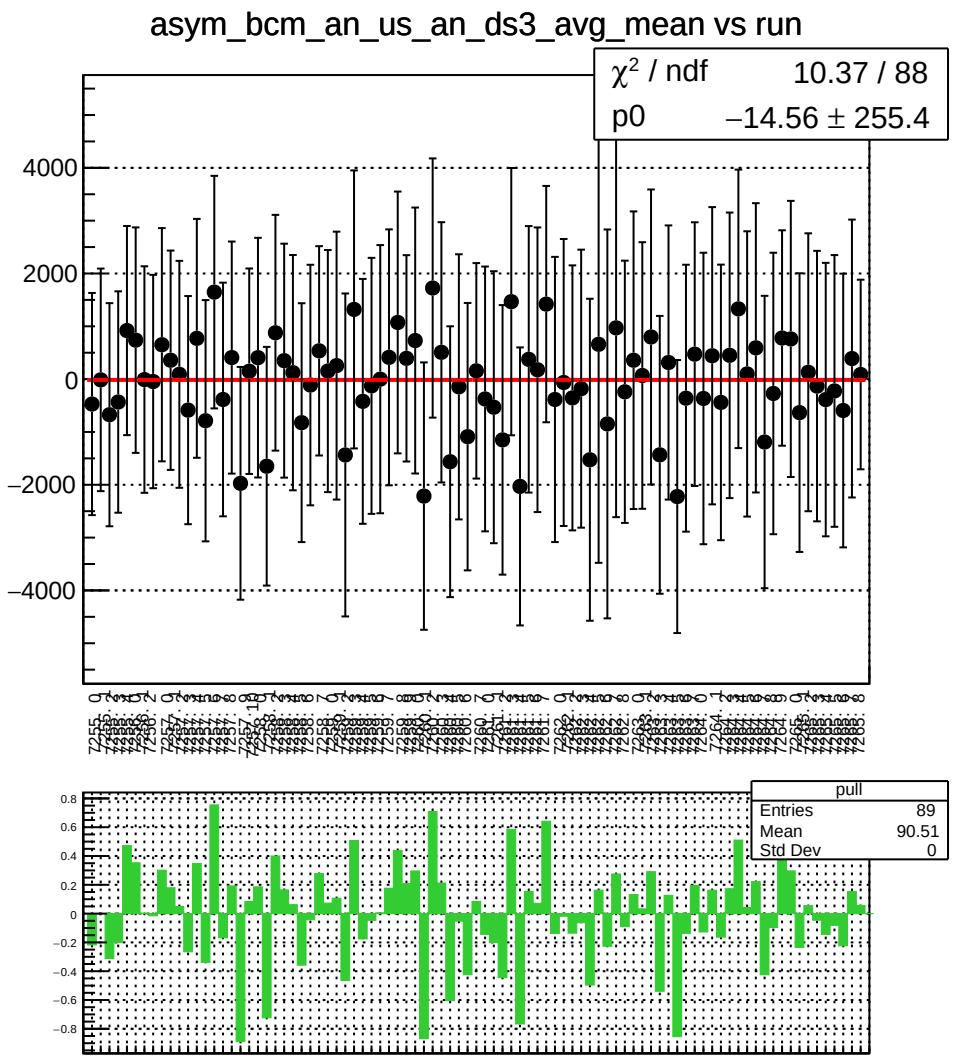

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 10.13 / 88
p0 −17.97 ± 255
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 85.01
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

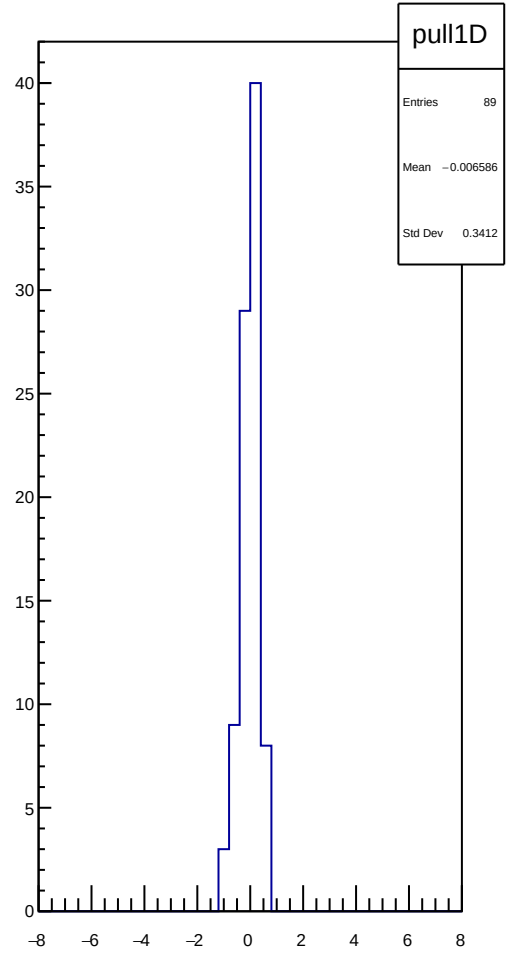

pull1D
Entries 89
Mean −0.006166
Std Dev 0.3373
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

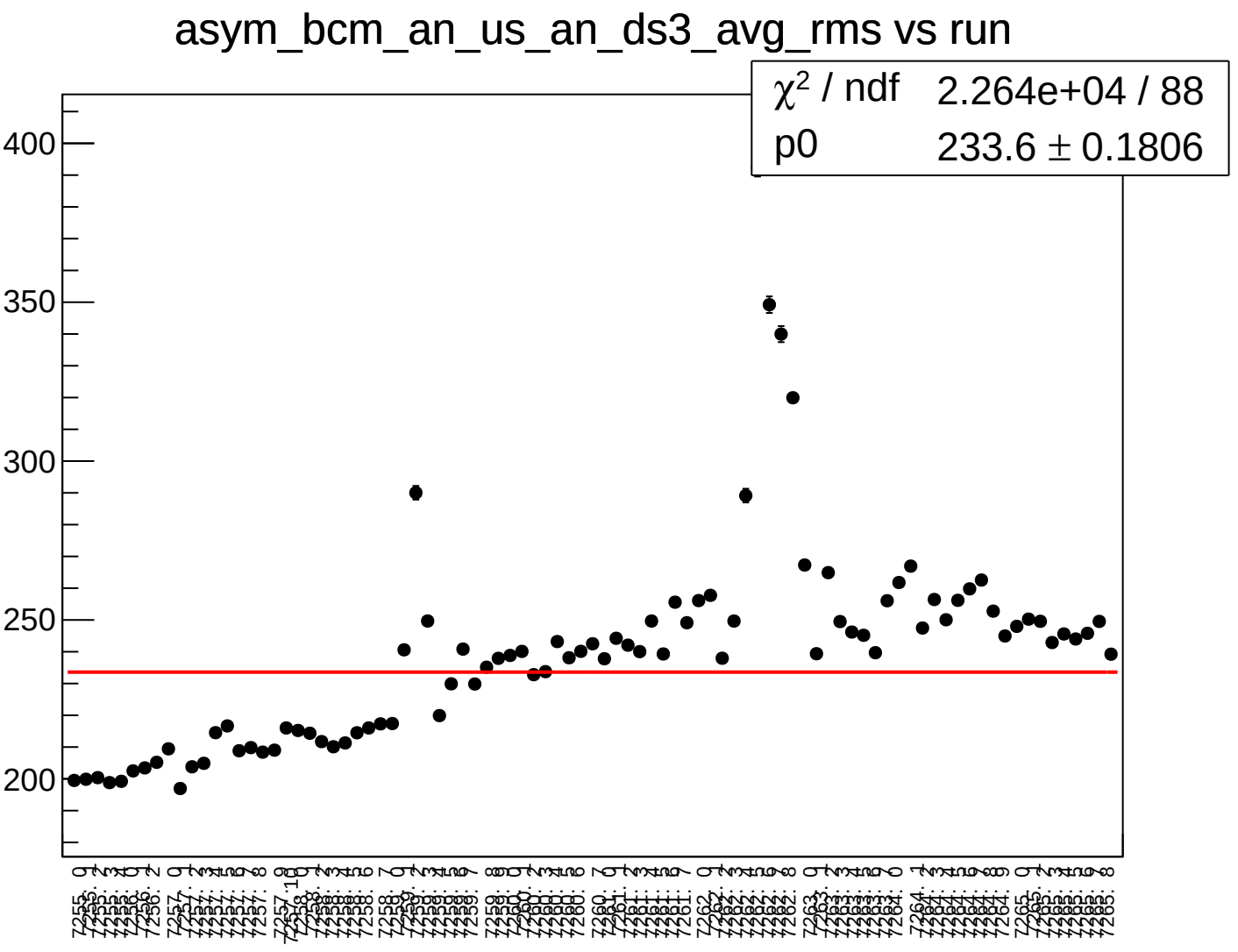

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 2.263e+04 / 88
p0 233.2 ± 0.1803
400
350
300
250
200

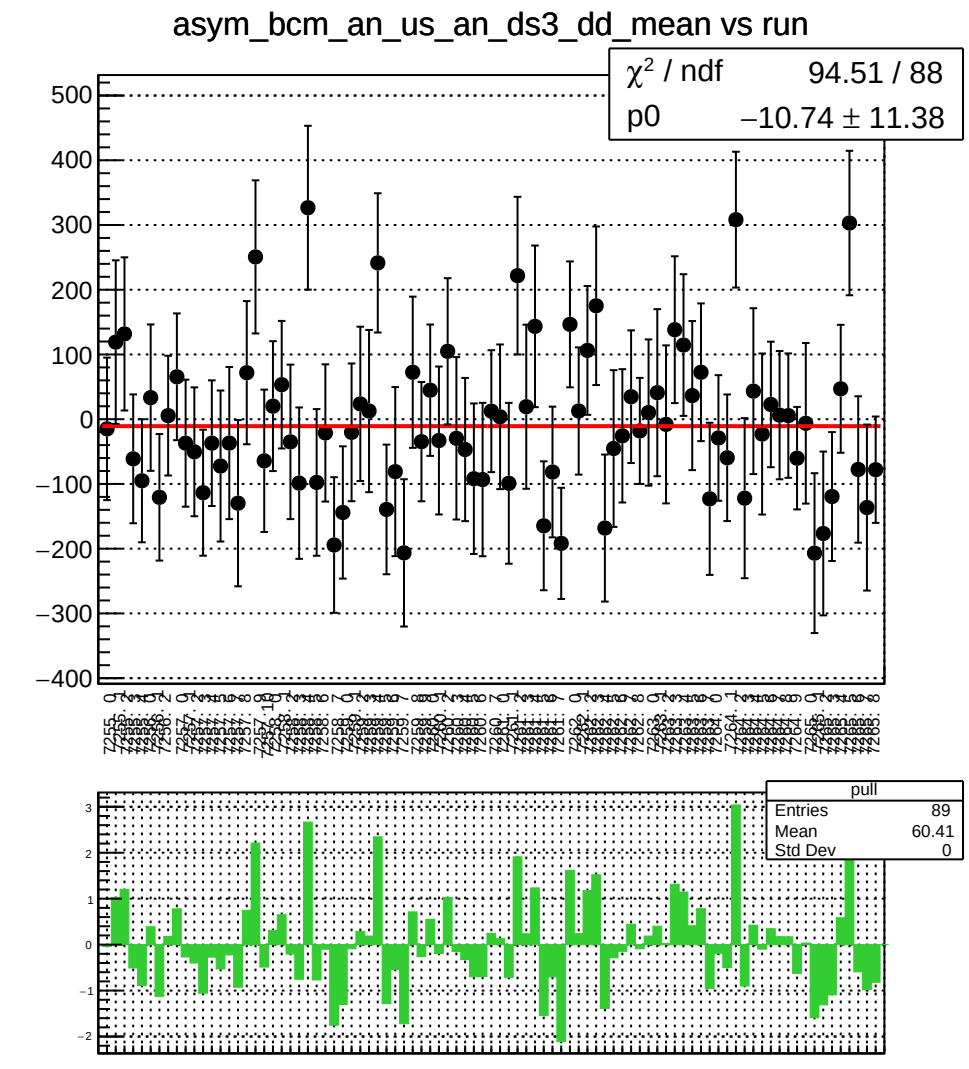

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 89.83 / 88
p0 −8.368 ± 11.98
400
200
0
−200
−400
pull
Entries 89
Mean −13.68
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01361
Std Dev 1.005
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

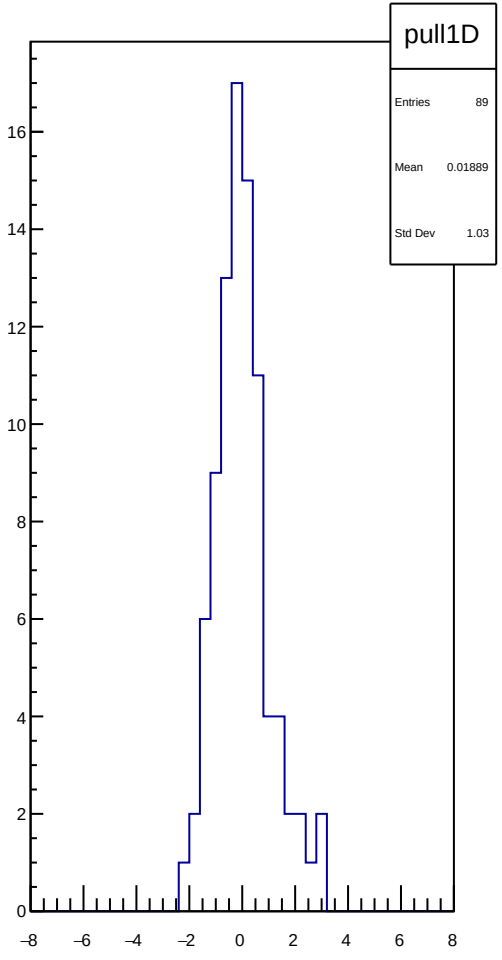

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.232e+04 / 88
p0 10.99 ± 0.00847
13
12.5
12
11.5
11
10.5
10
9.5

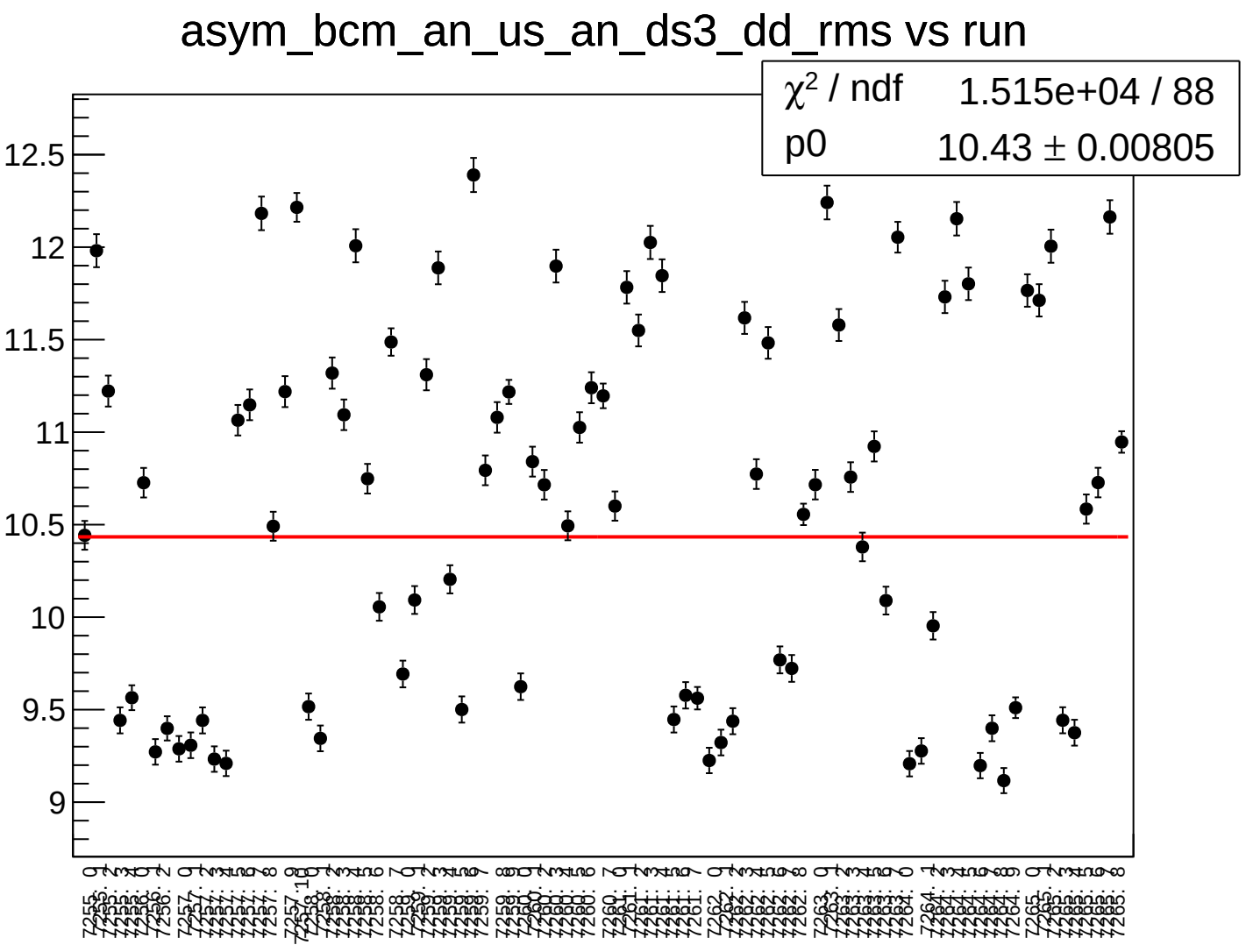

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 10.37 / 88
p0 −14.56 ± 255.4
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 90.51
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

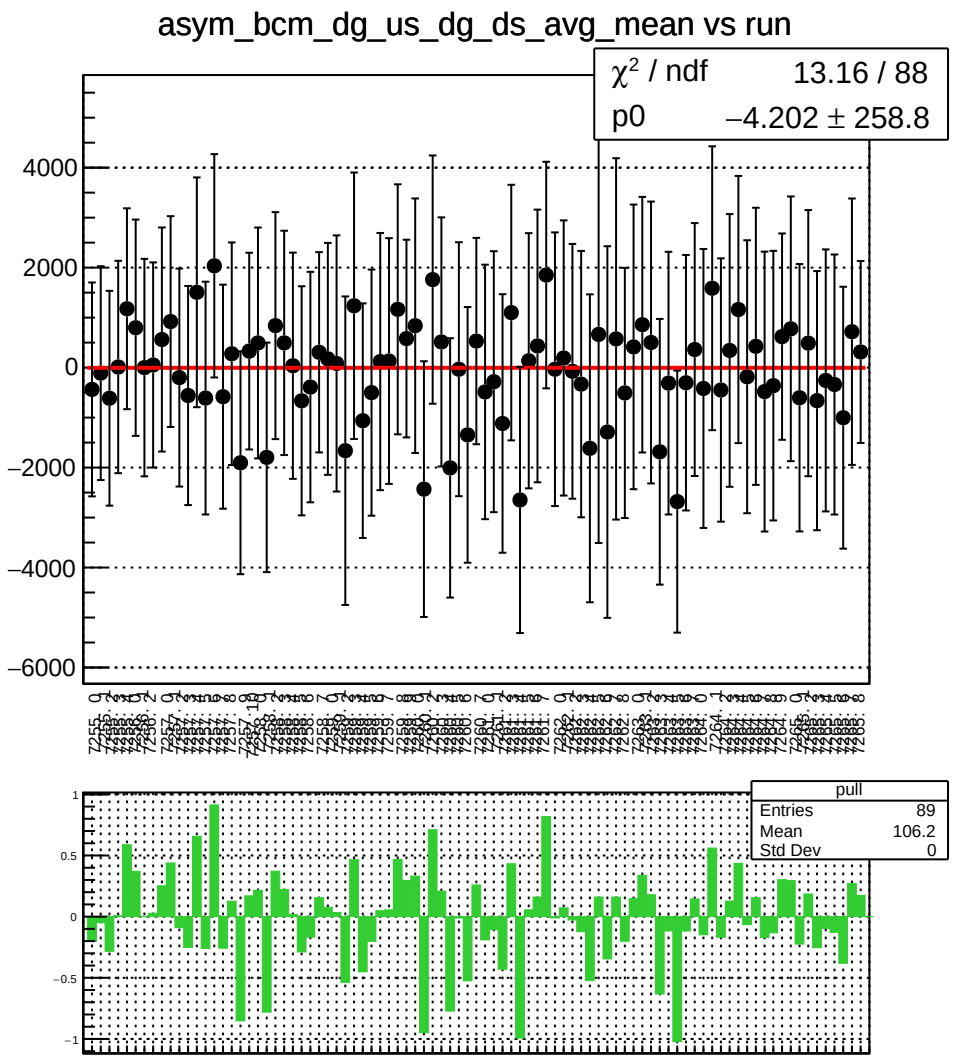

pull1D
Entries 89
Mean −0.006586
Std Dev 0.3412
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

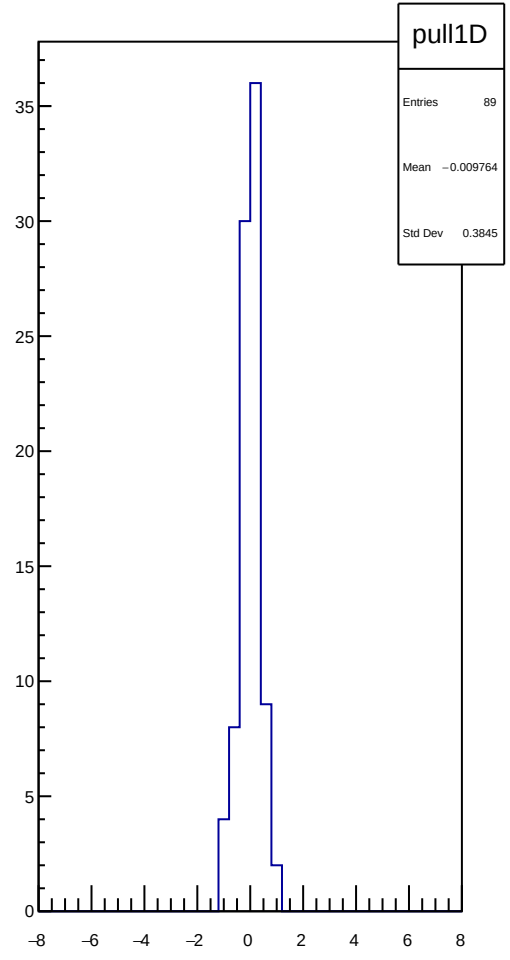

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 2.264e+04 / 88
p0 233.6 ± 0.1806
400
350
300
250
200

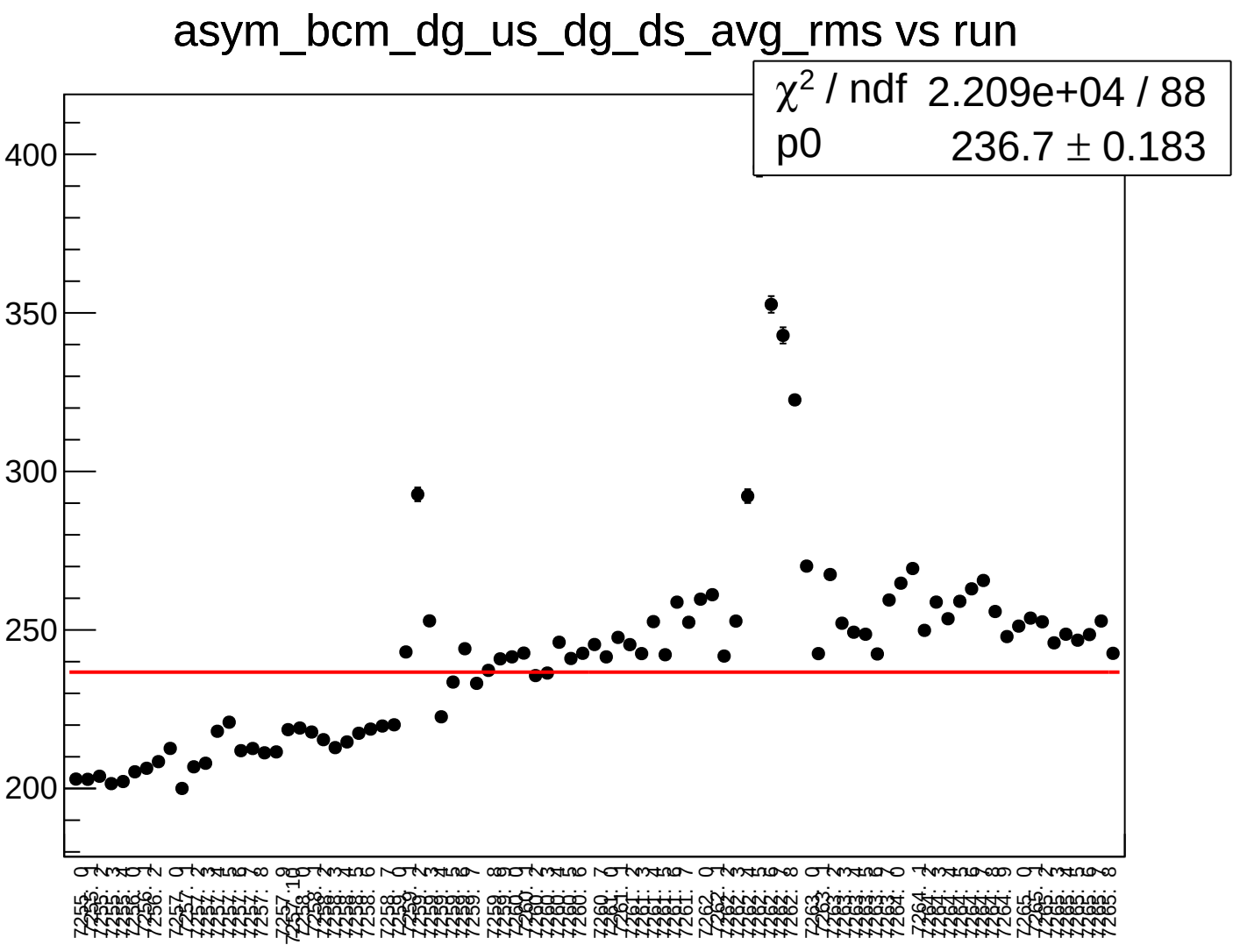

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 94.51 / 88
p0 −10.74 ± 11.38
pull
Entries 89
Mean 60.41
Std Dev 0

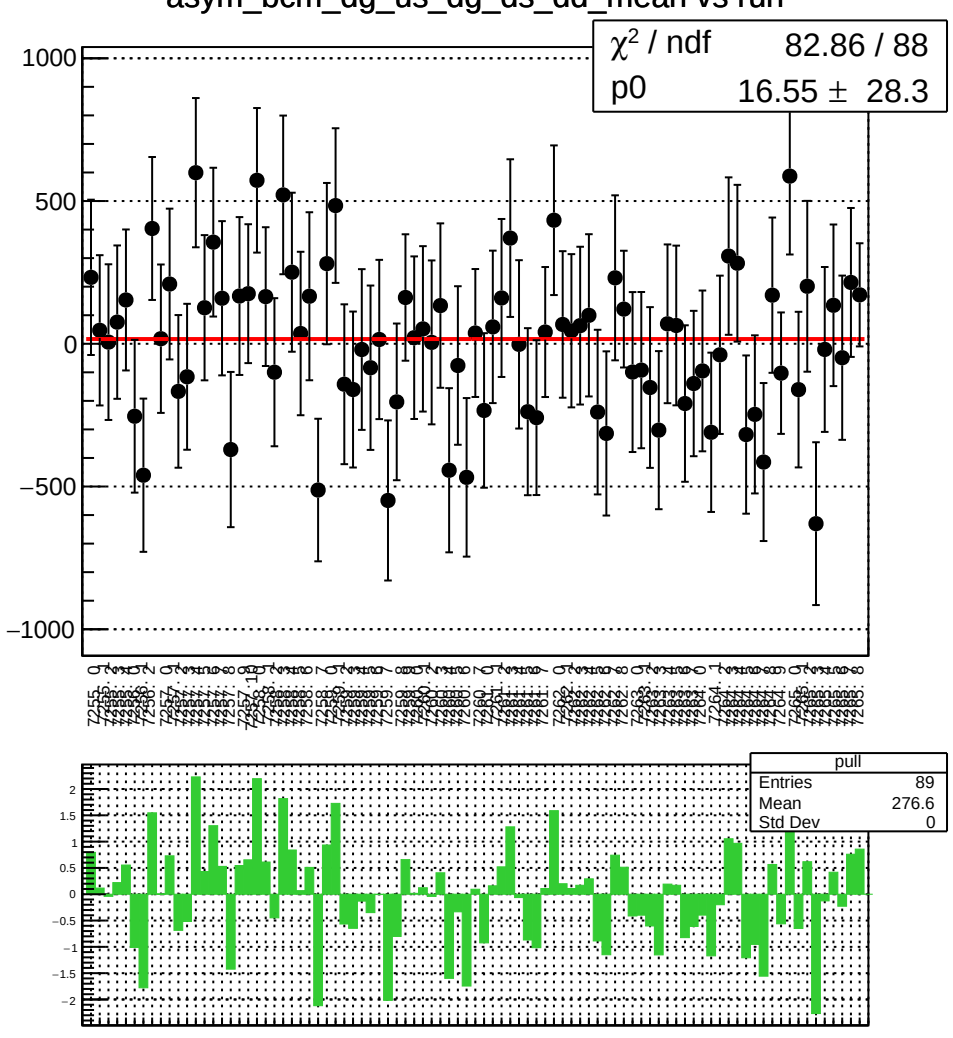

pull1D
Entries 89
Mean 0.01889
Std Dev 1.03

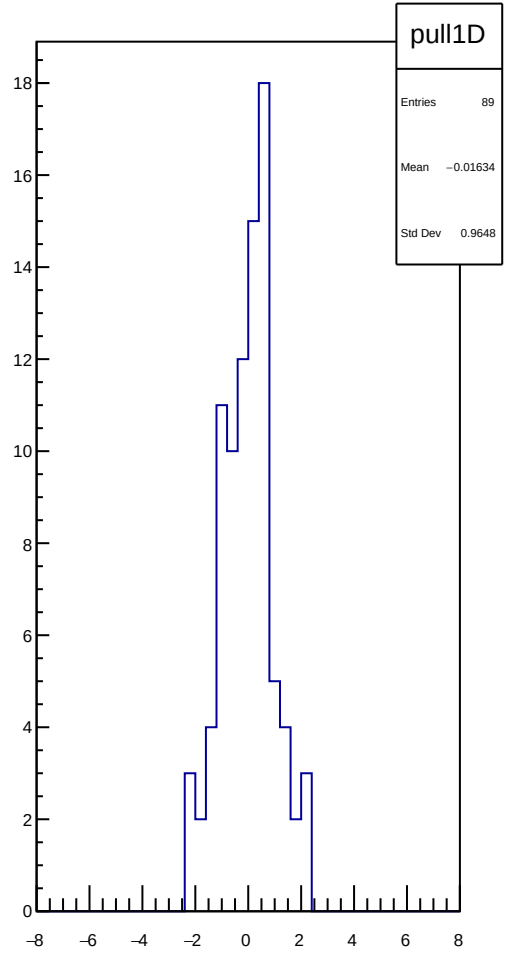

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 1.515e+04 / 88
p0 10.43 ± 0.00805
12.5
12
11.5
11
10.5
10
9.5
9

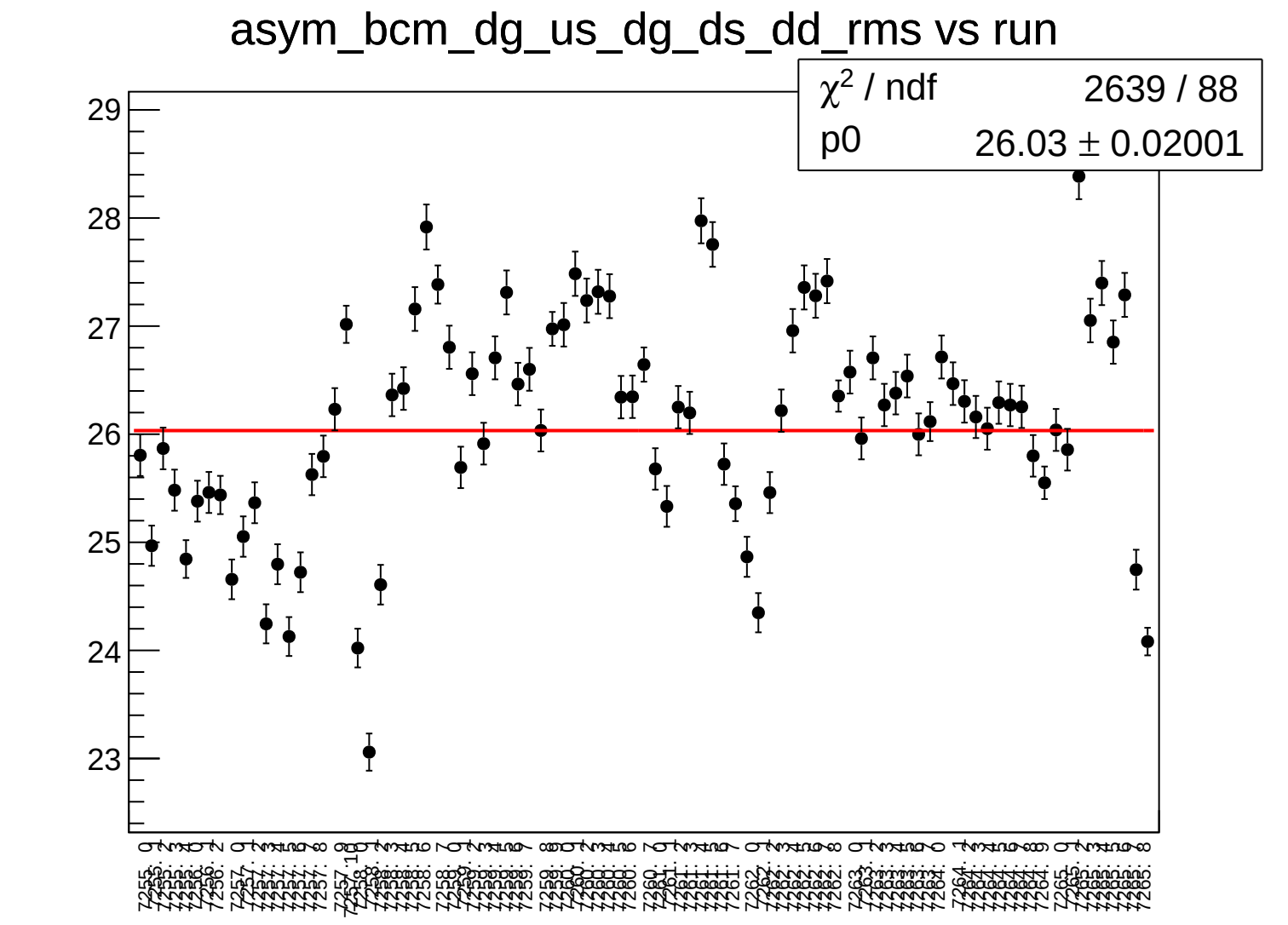

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 13.16 / 88
p0 −4.202 ± 258.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 106.2
Std Dev 0
1
0.5
0
−0.5
−1

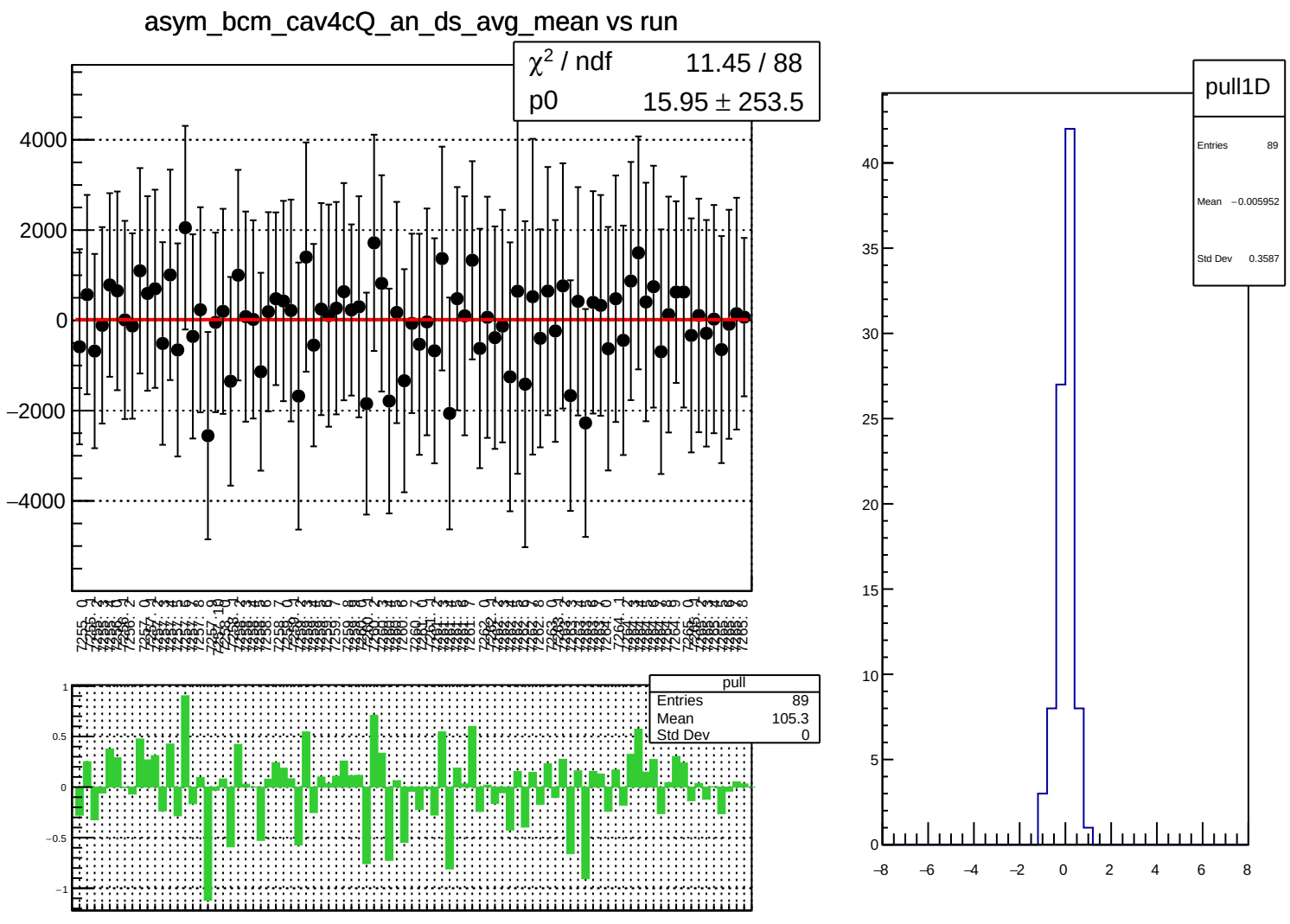

pull1D
Entries 89
Mean −0.009764
Std Dev 0.3845
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

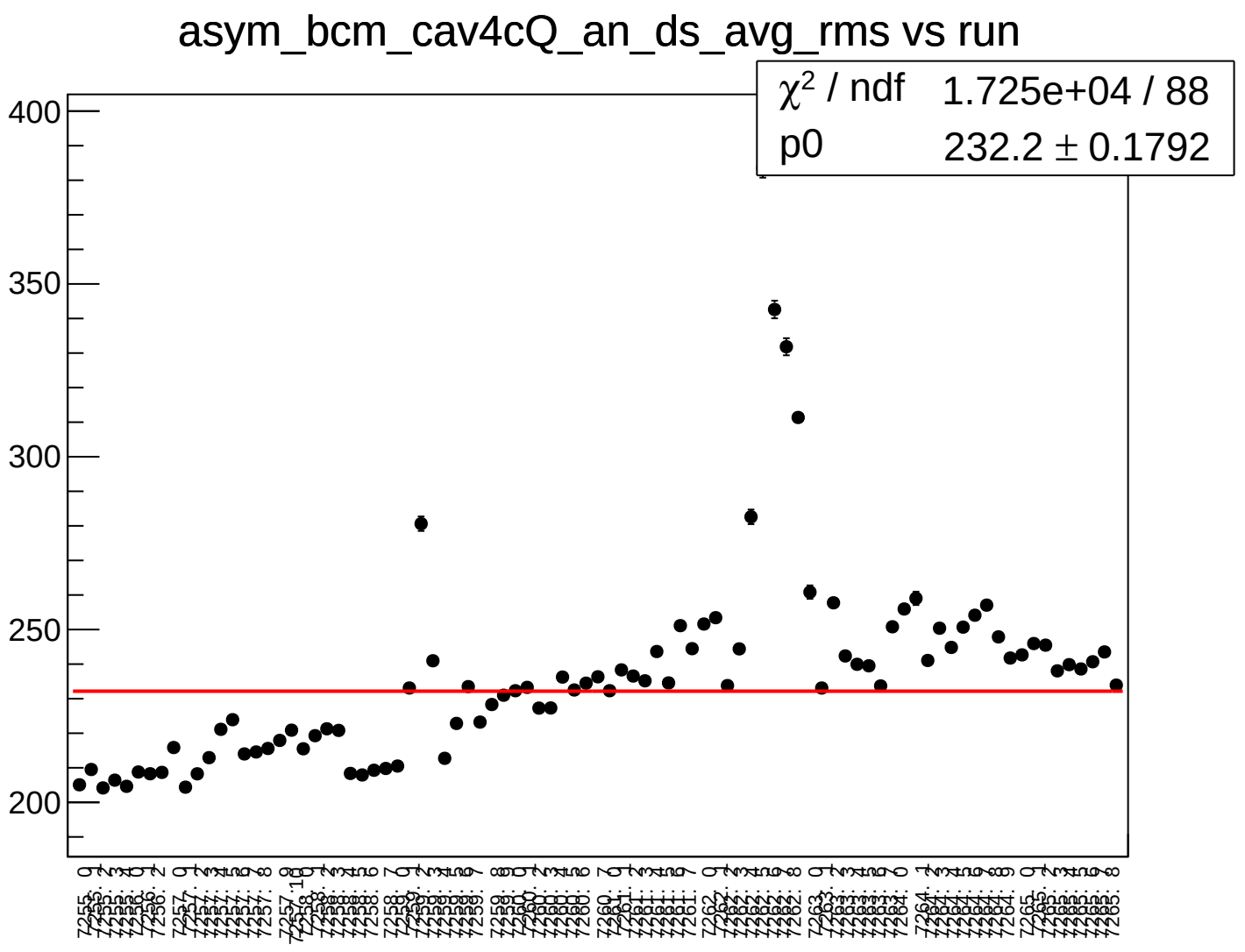

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 2.209e+04 / 88
p0 236.7 ± 0.183
400
350
300
250
200

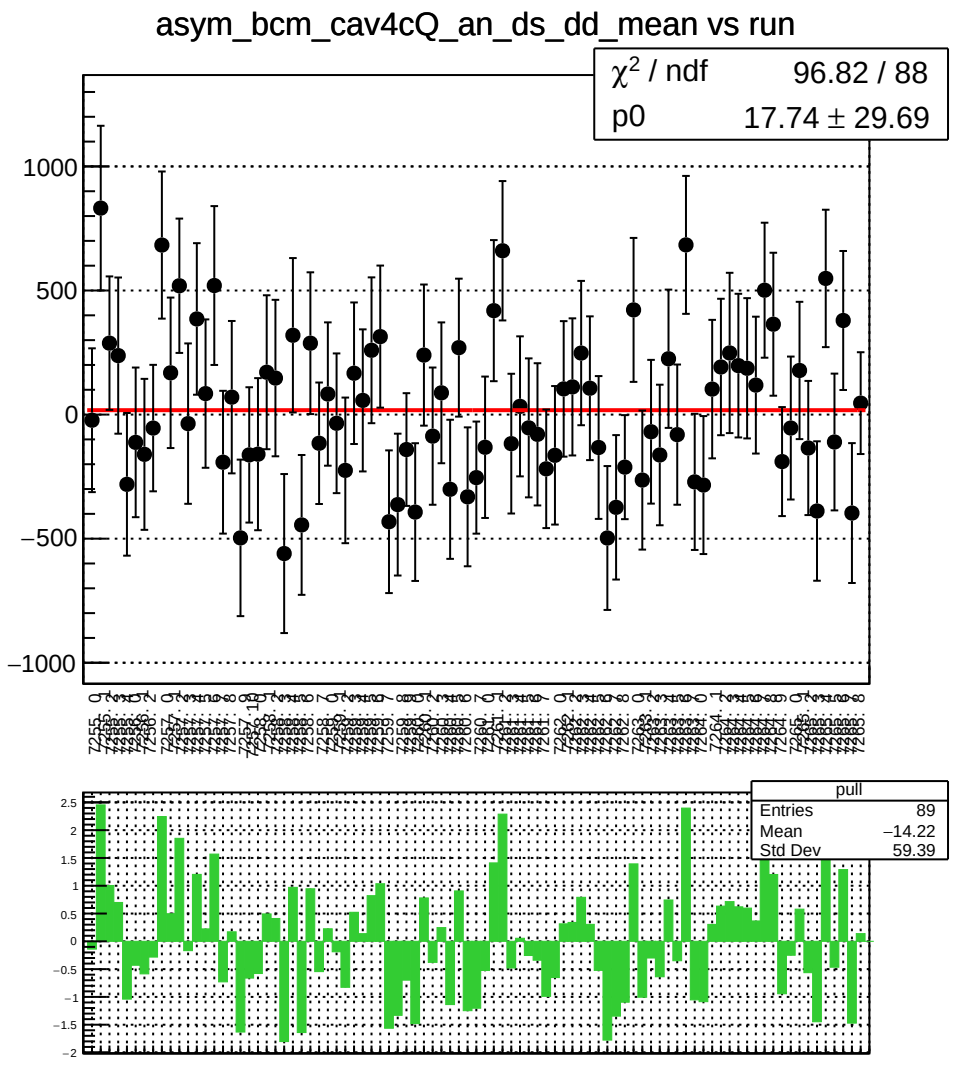

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 82.86 / 88
p0 16.55 ± 28.3
pull
Entries 89
Mean 276.6
Std Dev 0

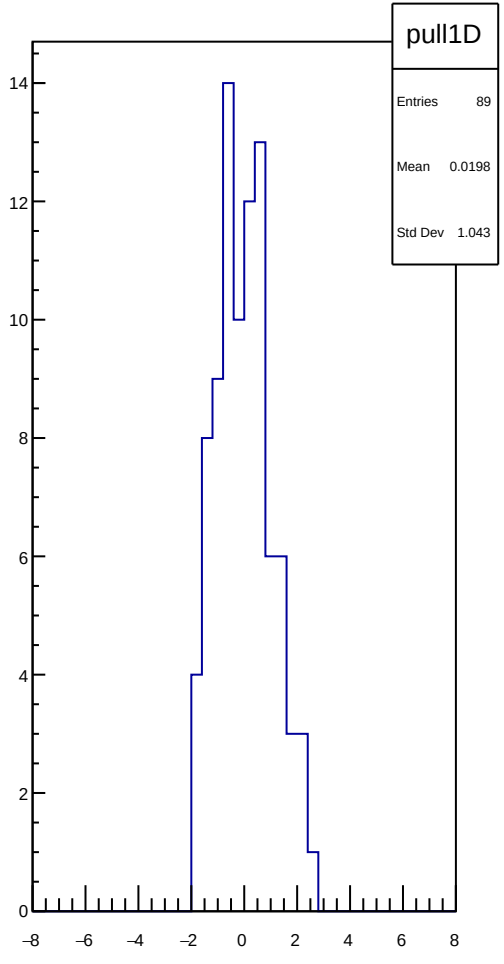

pull1D
Entries 89
Mean −0.01634
Std Dev 0.9648

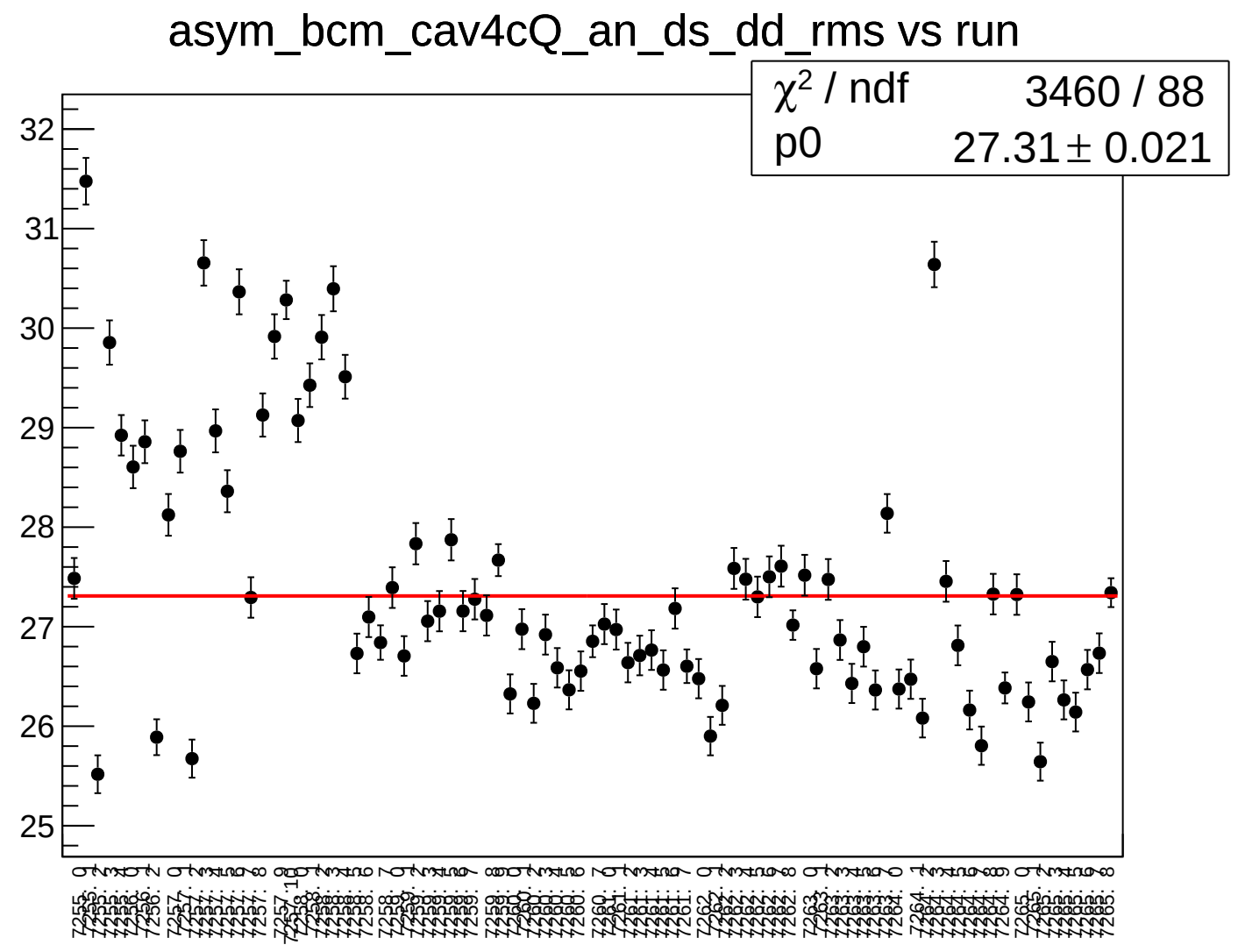

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2639 / 88
p0 26.03 ± 0.02001
29
28
27
26
25
24
23

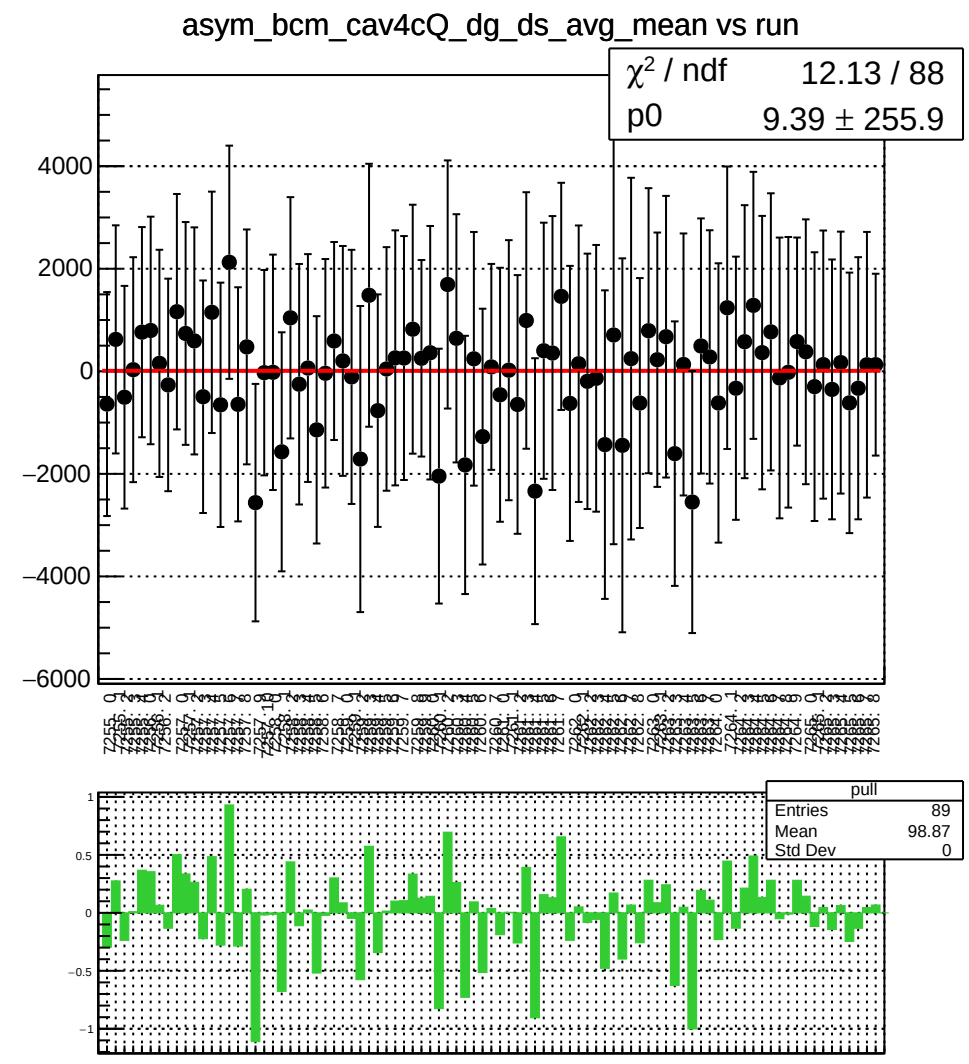

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 11.45 / 88
p0 15.95 ± 253.5
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 105.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.005952
Std Dev 0.3587
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

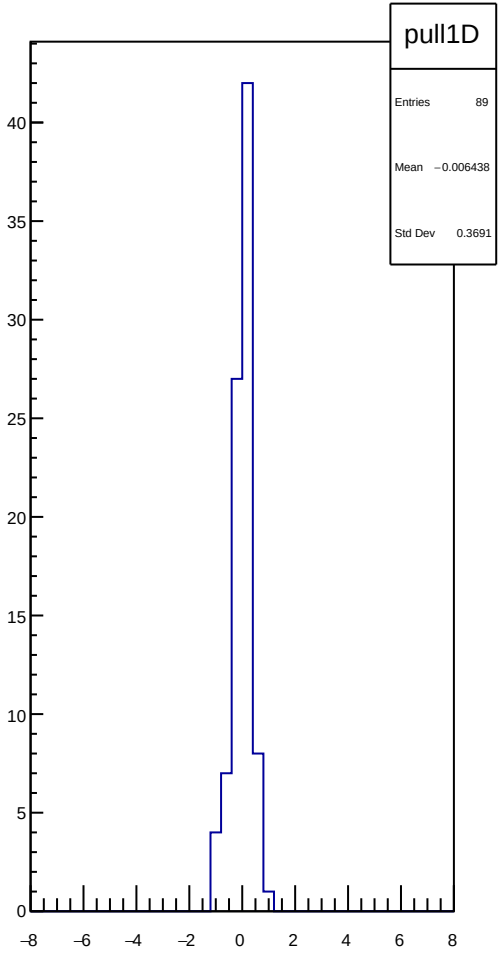

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 1.725e+04 / 88
p0 232.2 ± 0.1792
400
350
300
250
200

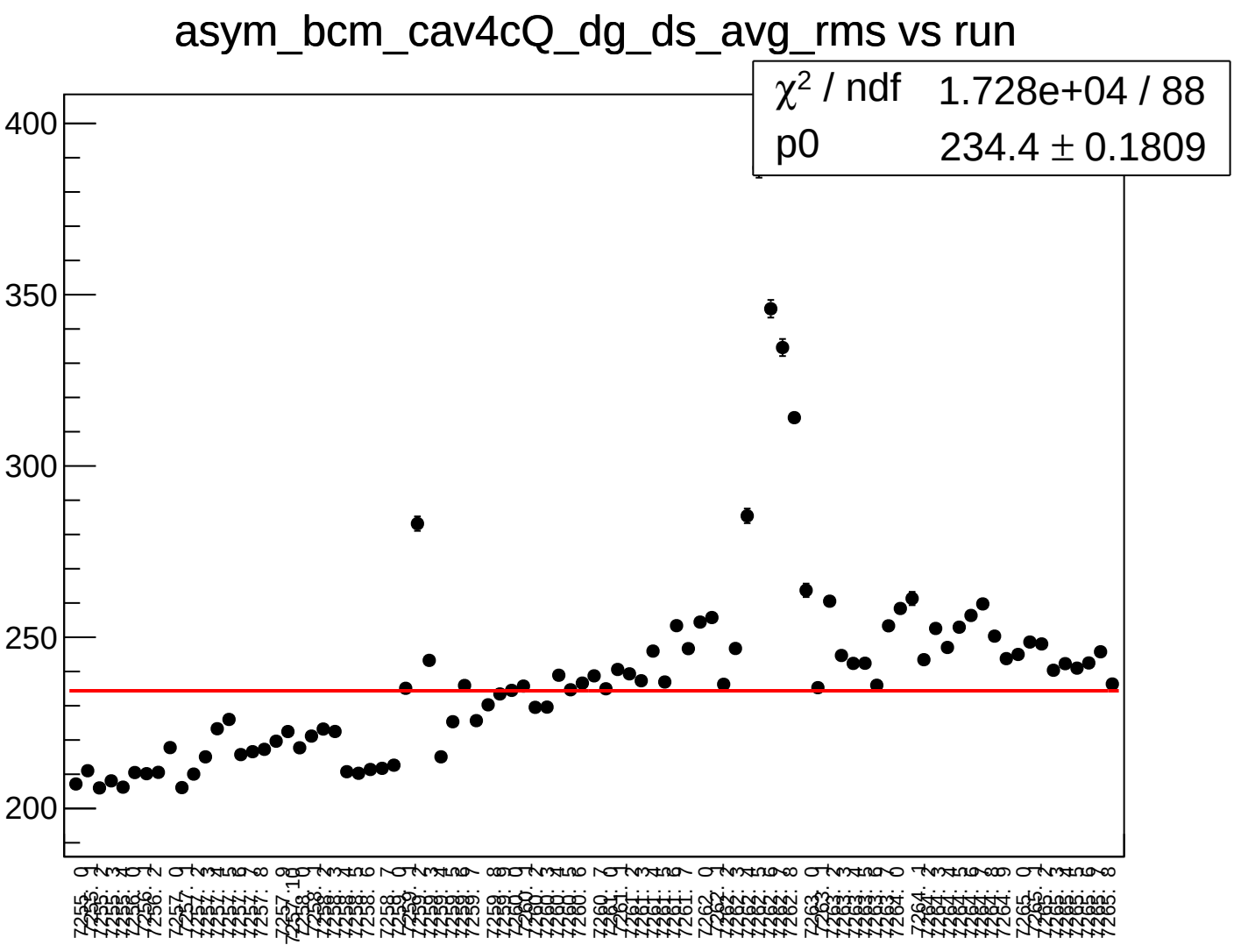

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 96.82 / 88
p0 17.74 ± 29.69
1000
500
0
−500
−1000
pull
Entries 89
Mean −14.22
Std Dev 59.39
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

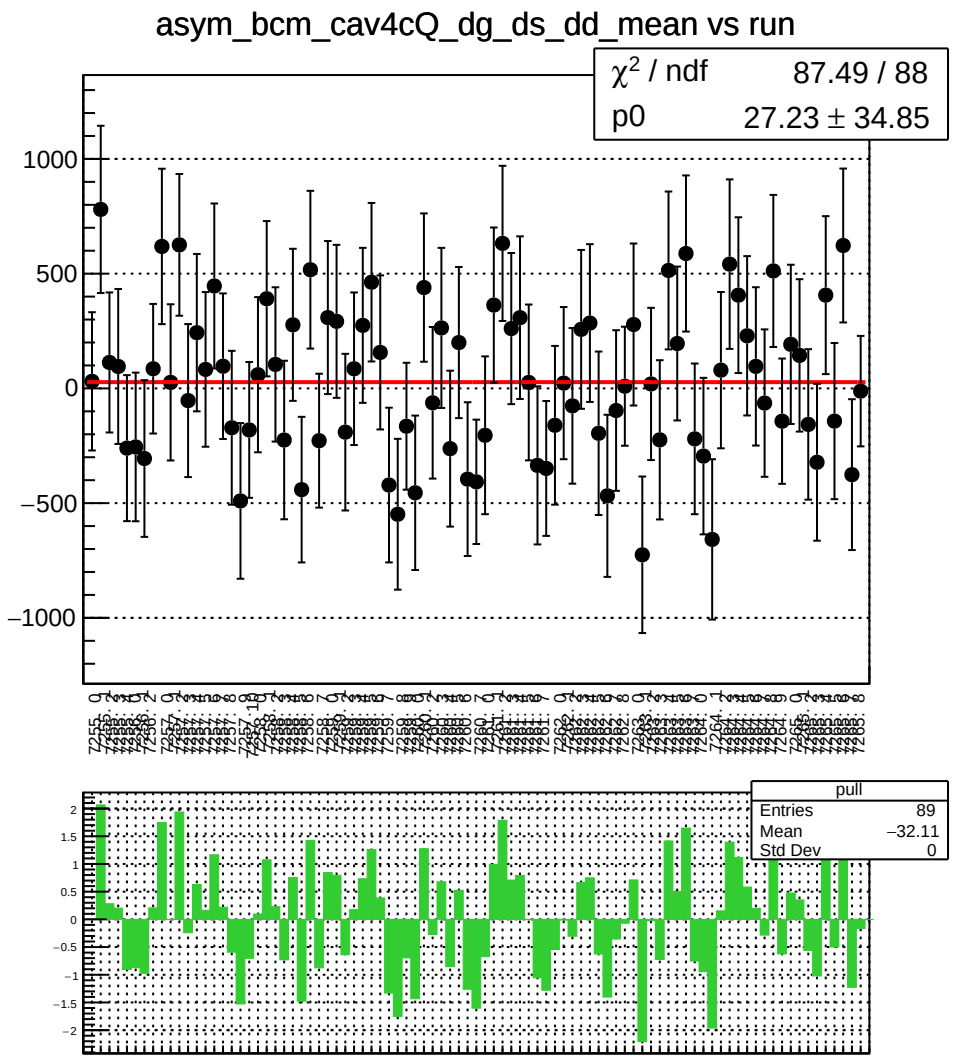

pull1D
Entries 89
Mean 0.0198
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

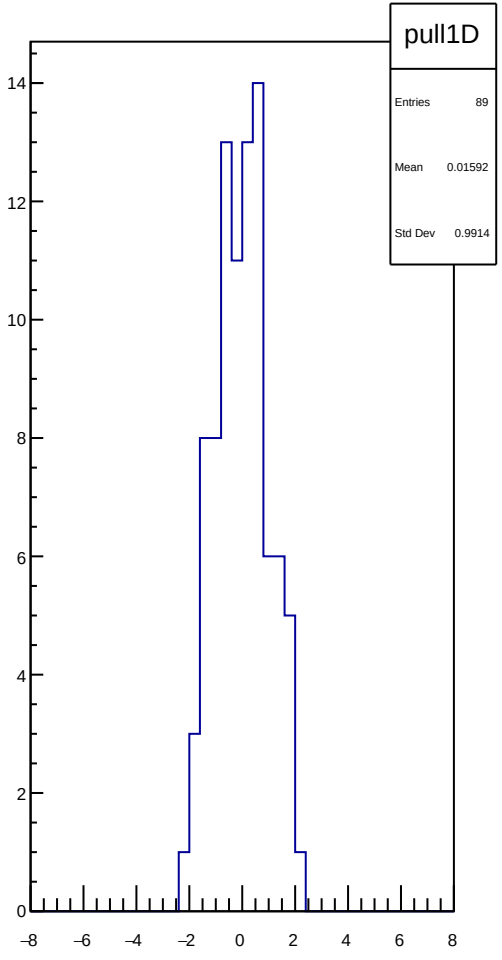

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 3460 / 88
p0 27.31 ± 0.021
32
31
30
29
28
27
26
25

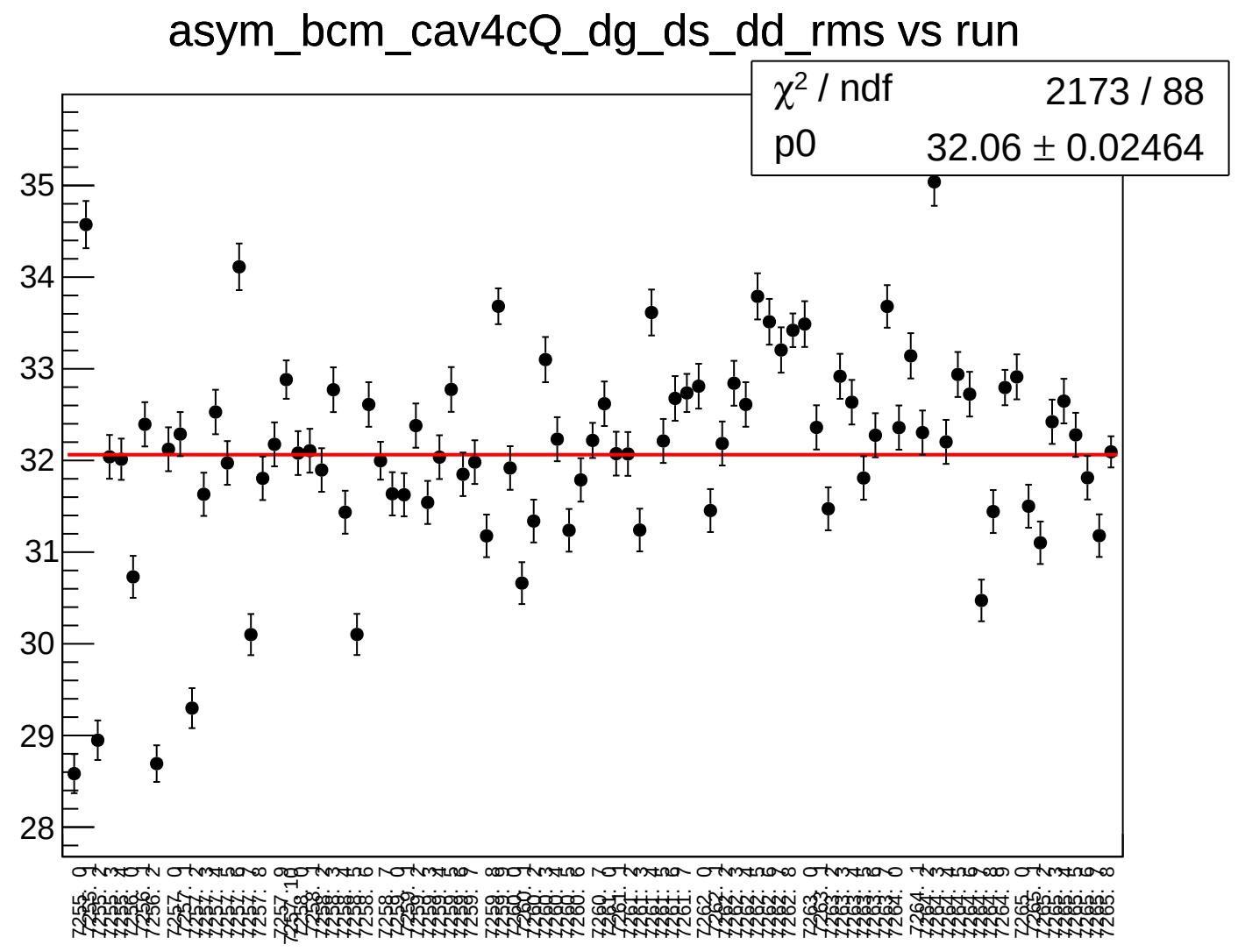

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 12.13 / 88
p0 9.39 ± 255.9
pull
Entries 89
Mean 98.87
Std Dev 0

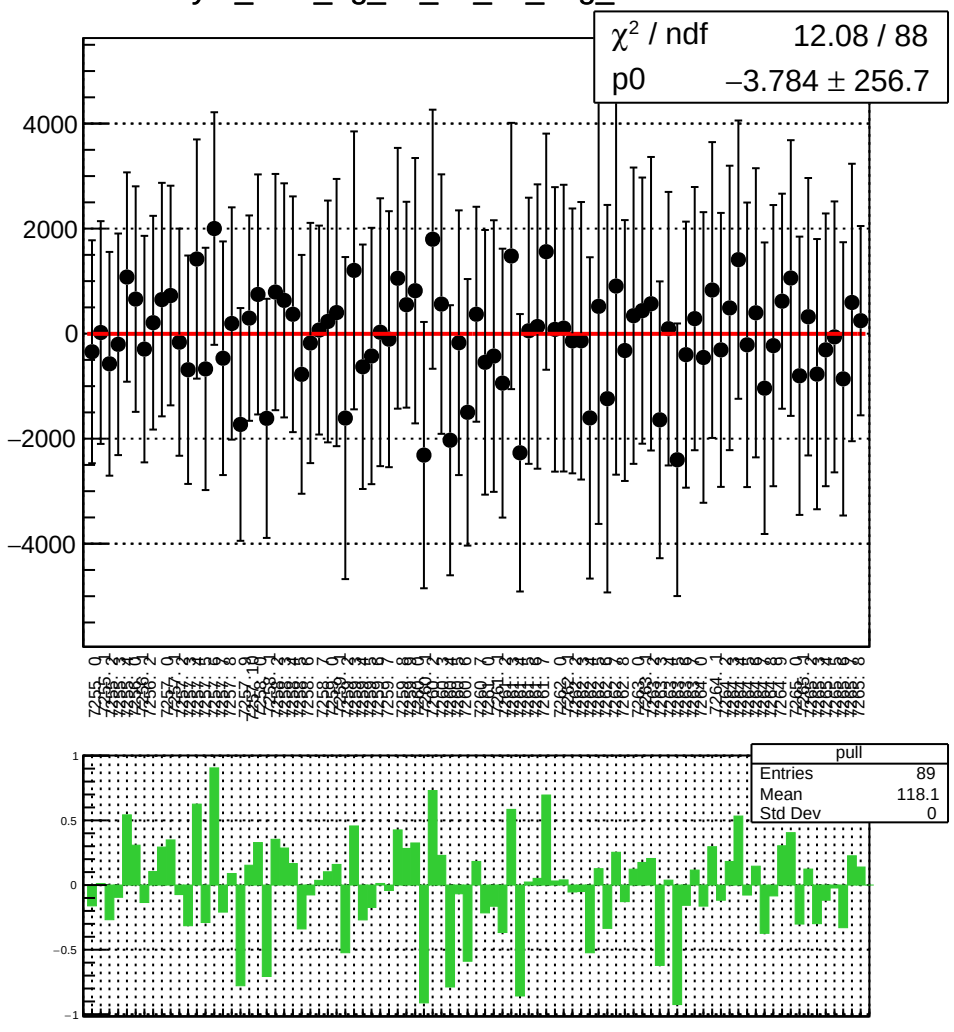

pull1D
Entries 89
Mean −0.006438
Std Dev 0.3691

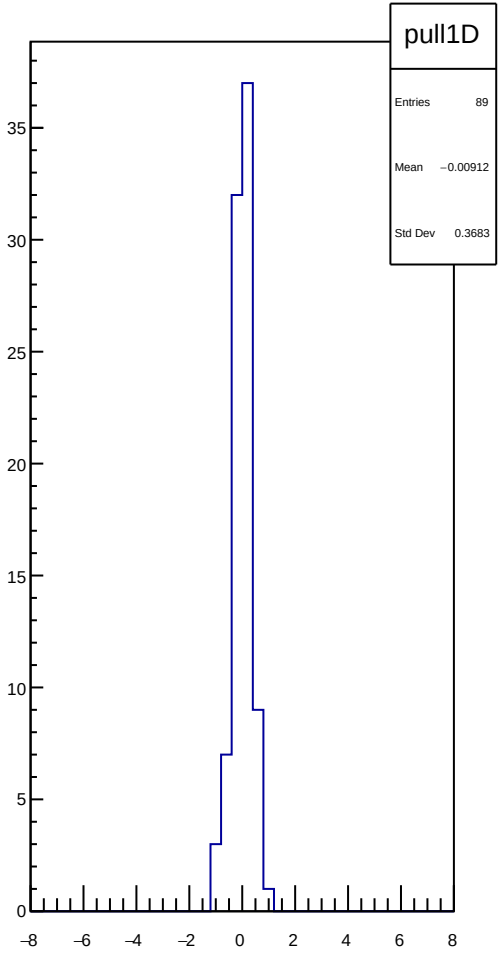

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 1.728e+04 / 88
p0 234.4 ± 0.1809
400
350
300
250
200

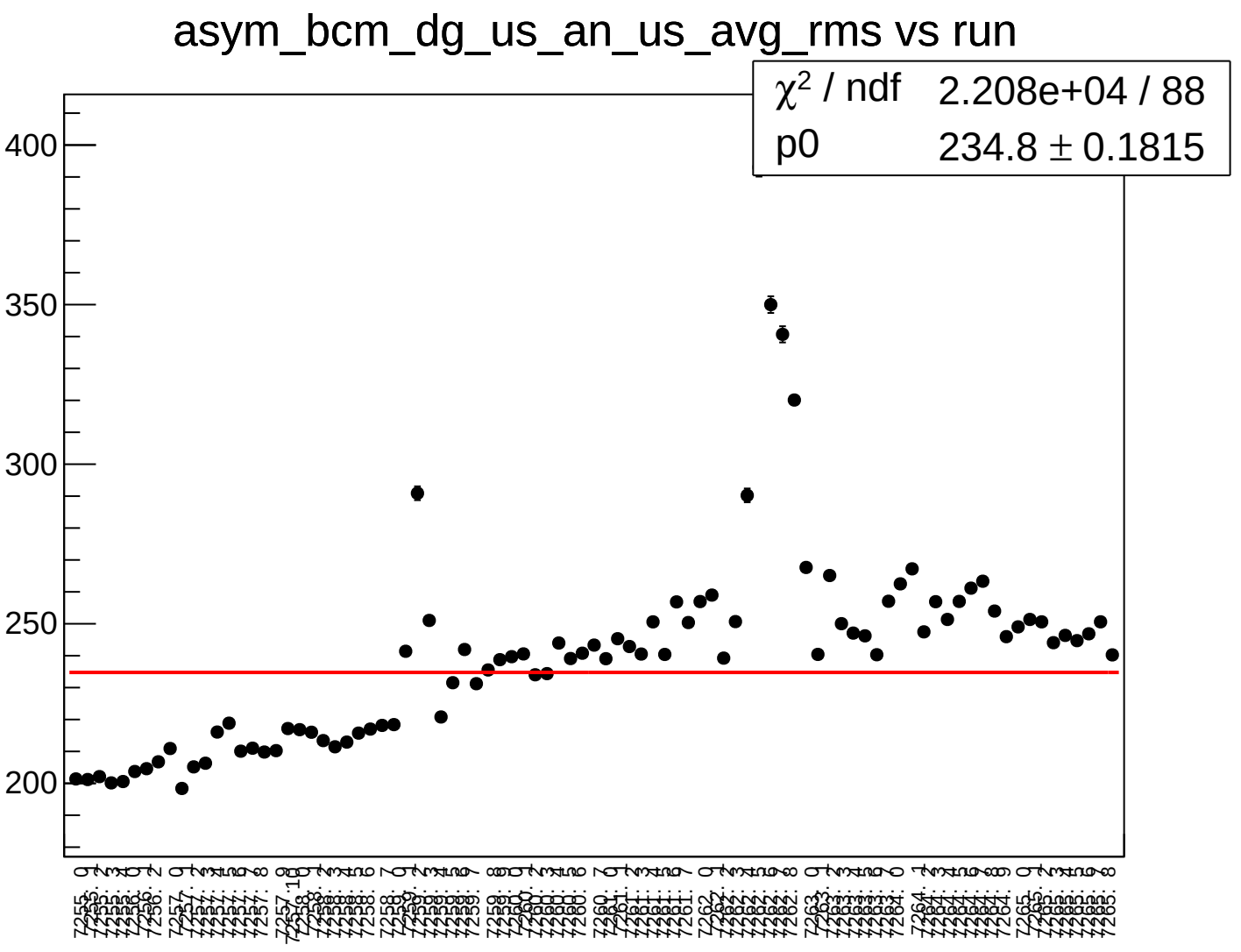

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 87.49 / 88
p0 27.23 ± 34.85
1000
500
0
−500
−1000
pull
Entries 89
Mean −32.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

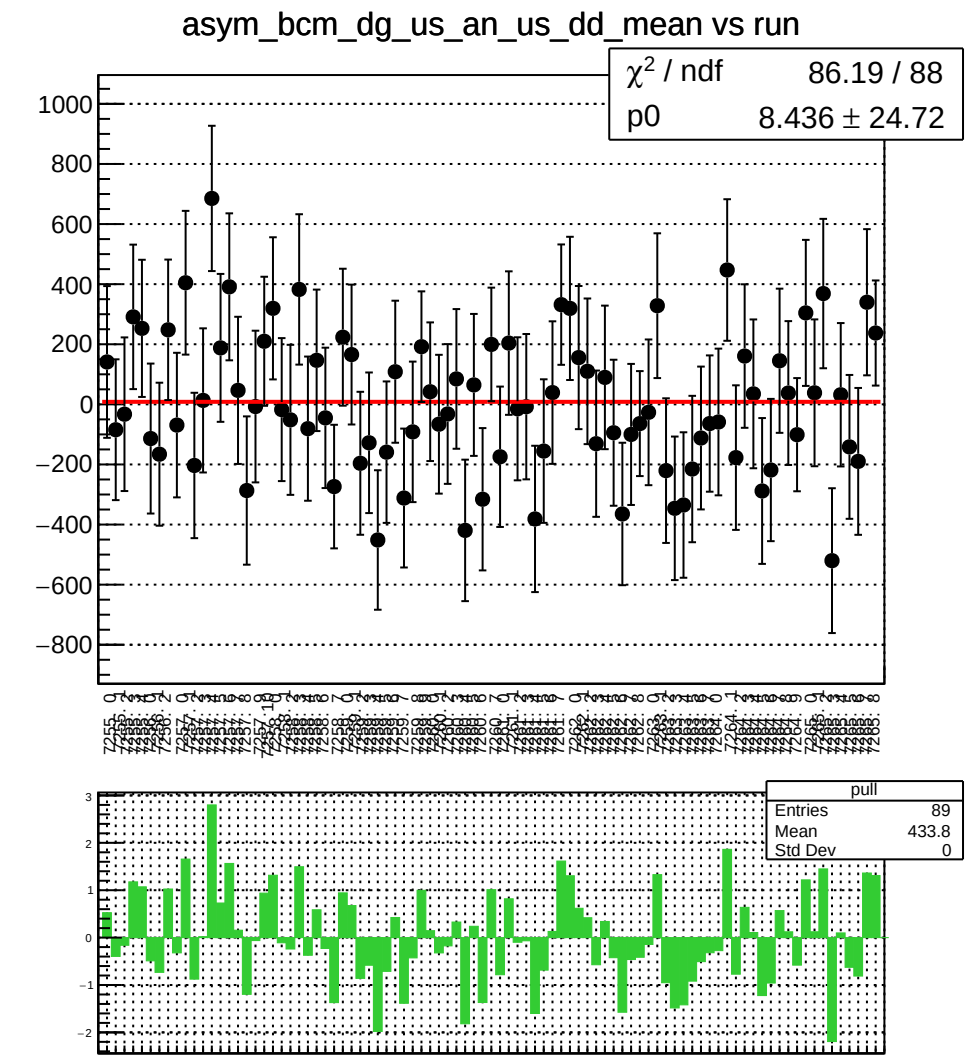

pull1D
Entries 89
Mean 0.01592
Std Dev 0.9914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

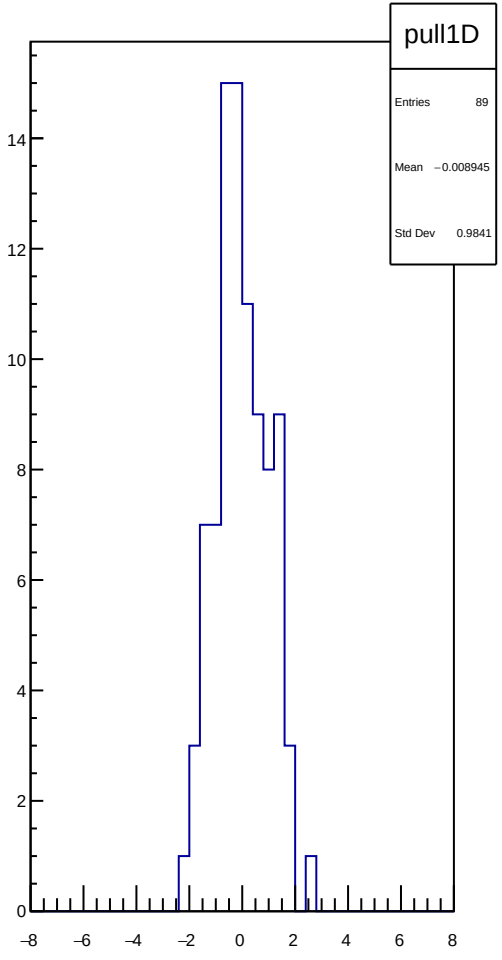

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2173 / 88
p0 32.06 ± 0.02464
35
34
33
32
31
30
29
28

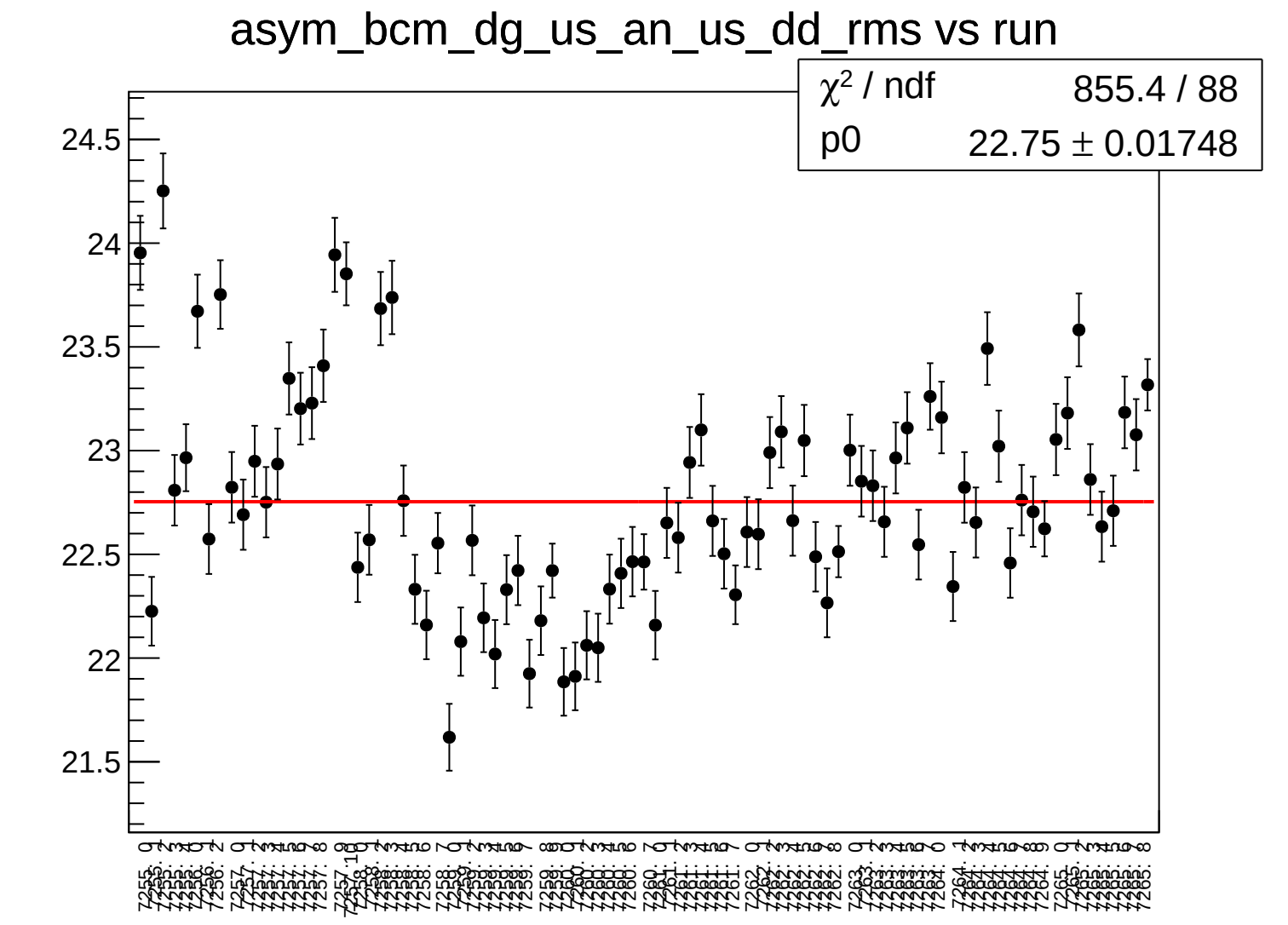

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 12.08 / 88
p0 −3.784 ± 256.7
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 118.1
Std Dev 0
1
0.5
0
−0.5
−1

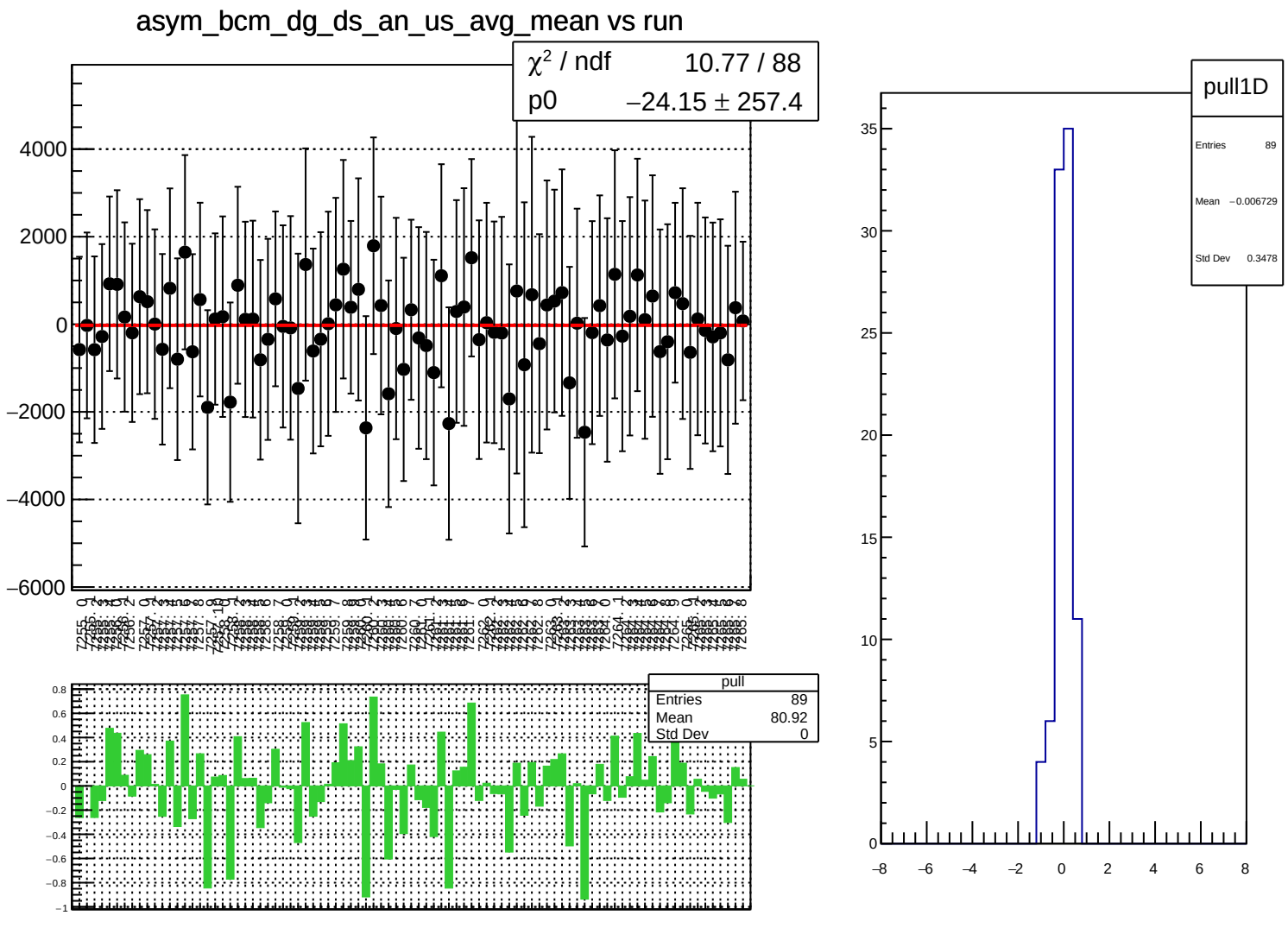

pull1D
Entries 89
Mean −0.00912
Std Dev 0.3683
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

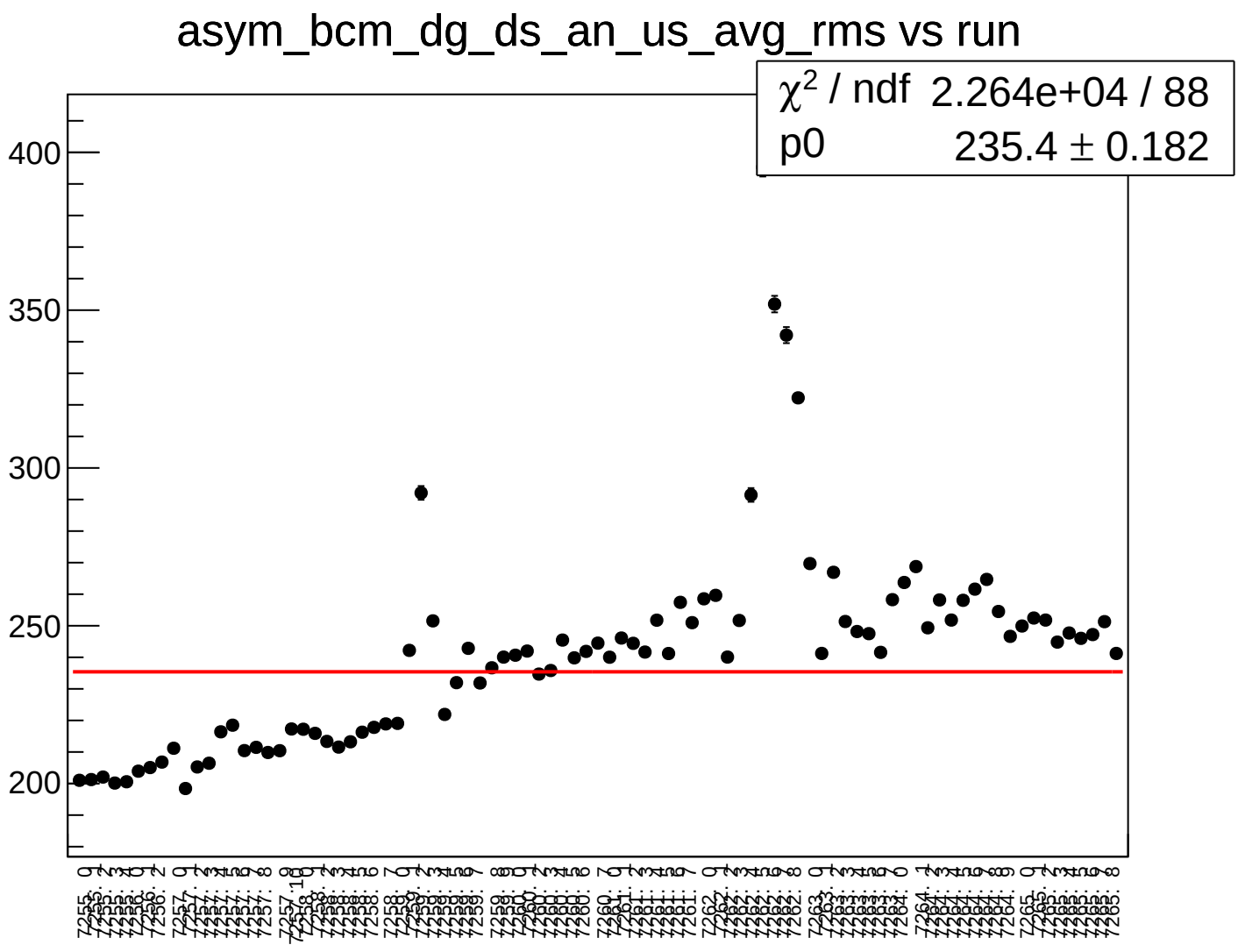

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 2.208e+04 / 88
p0 234.8 ± 0.1815
400
350
300
250
200

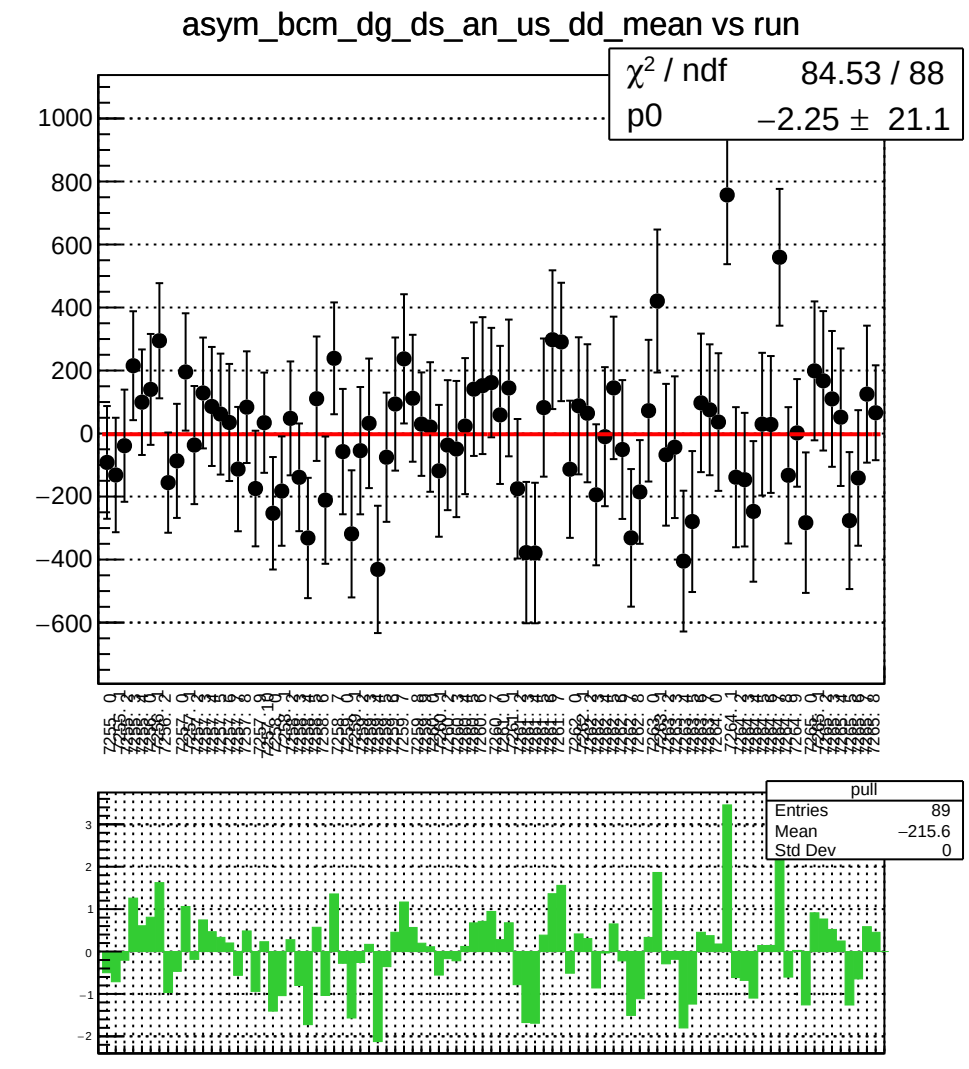

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 86.19 / 88
p0 8.436 ± 24.72
pull
Entries 89
Mean 433.8
Std Dev 0

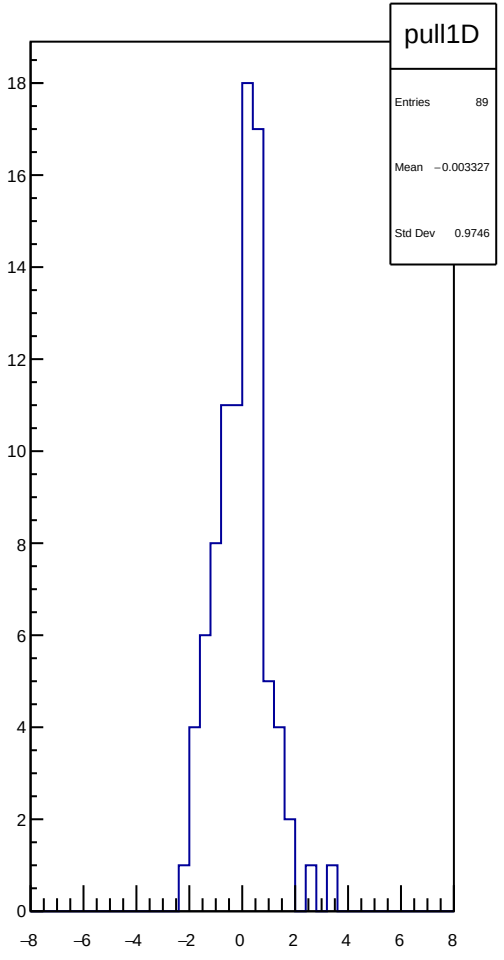

pull1D
Entries 89
Mean −0.008945
Std Dev 0.9841

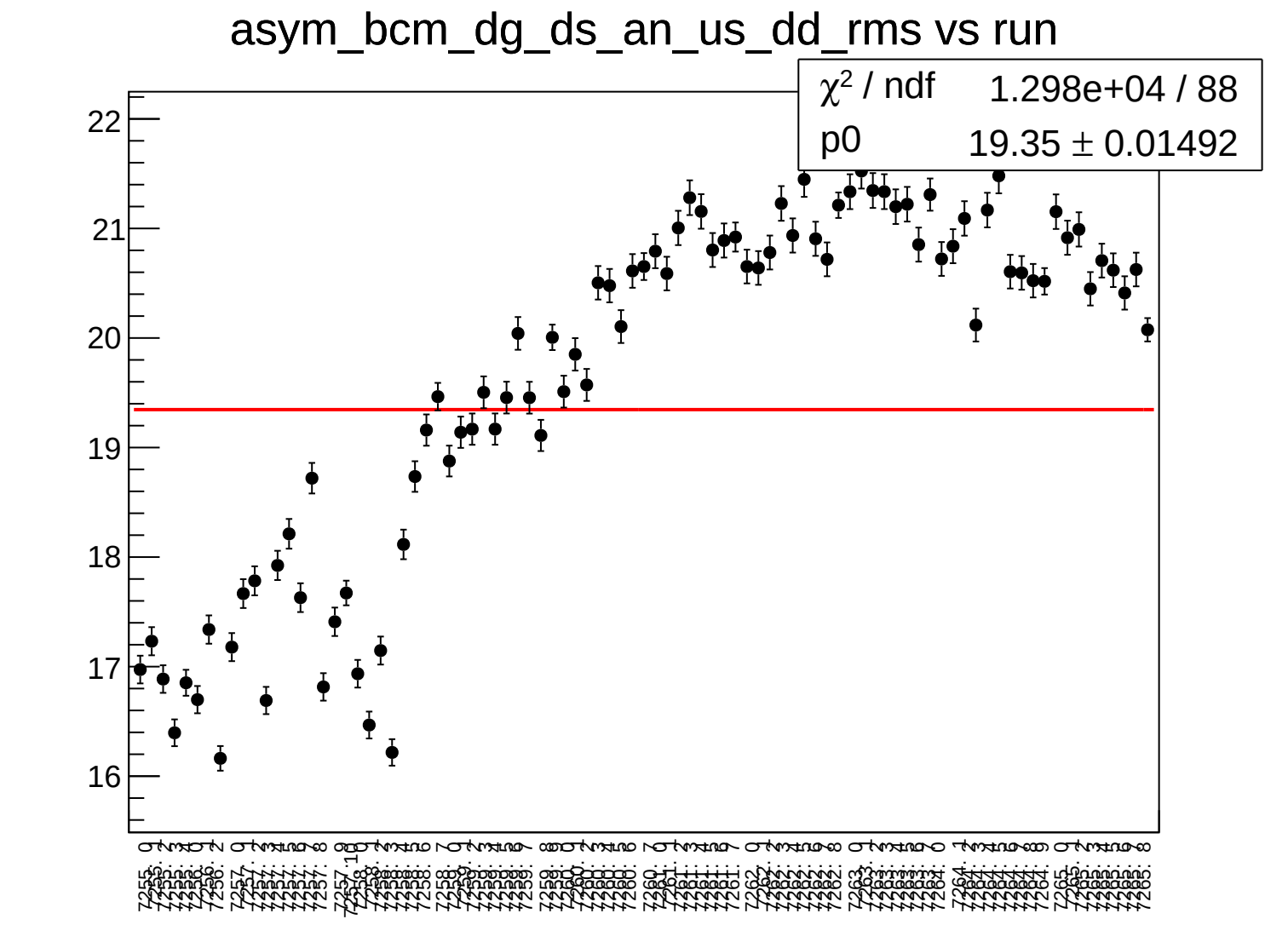

asym_bcm_dg_us_an_us_dd_rms vs run
χ^2 / ndf 855.4 / 88
p0 22.75 ± 0.01748
24.5
24
23.5
23
22.5
22
21.5

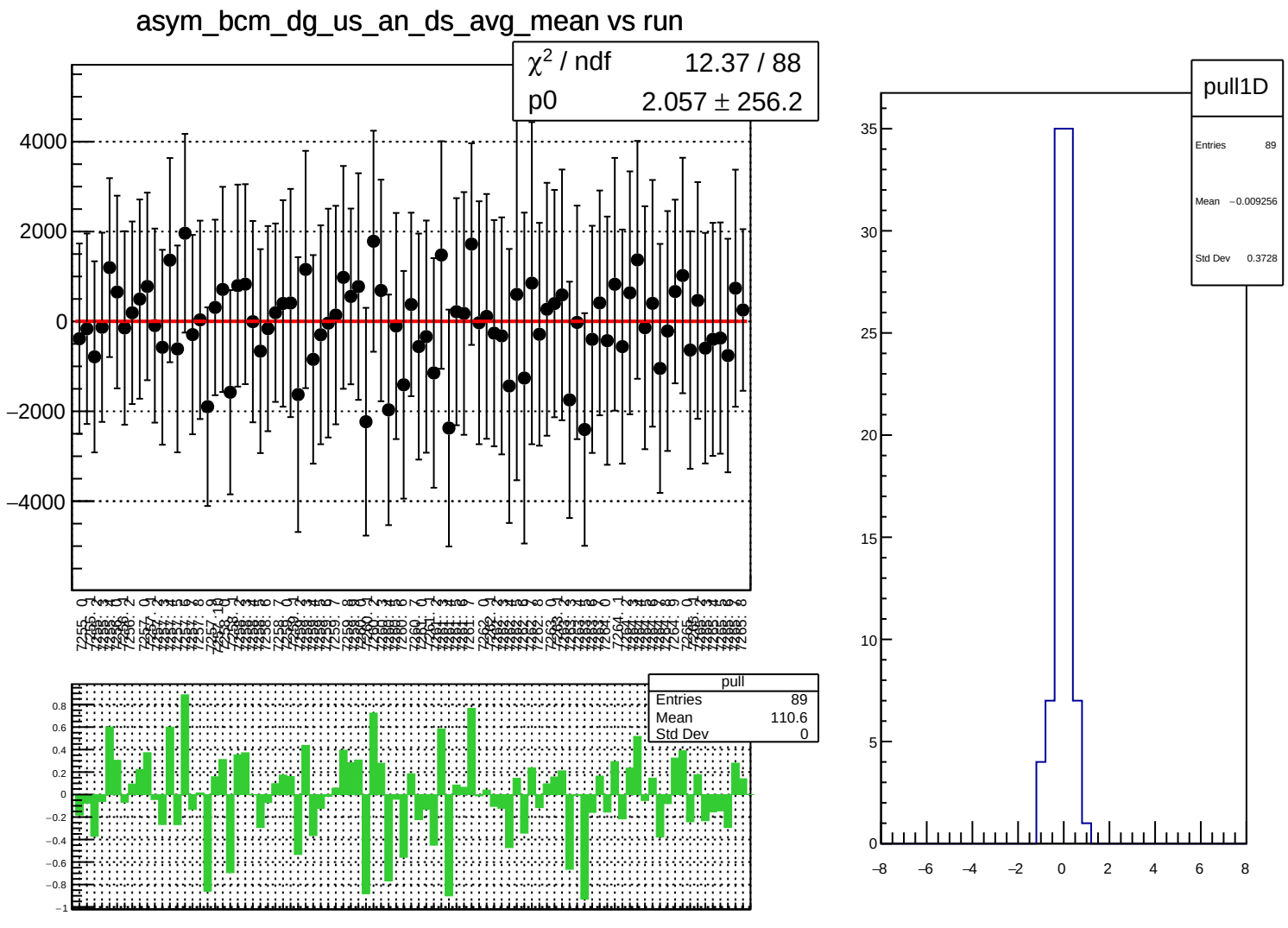

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 10.77 / 88
p0 −24.15 ± 257.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 80.92
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 89
Mean −0.006729
Std Dev 0.3478
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

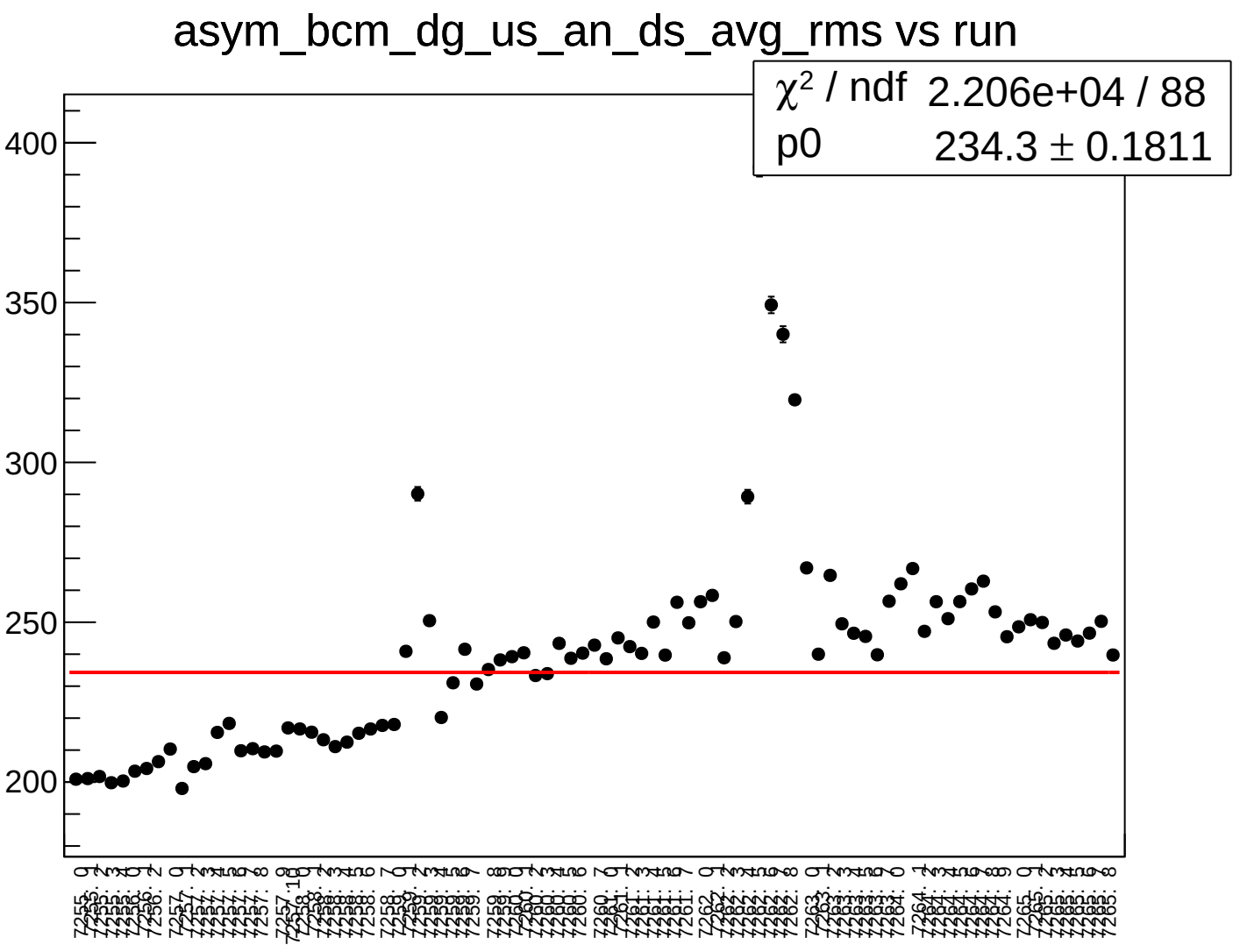

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 2.264e+04 / 88
p0 235.4 ± 0.182
400
350
300
250
200

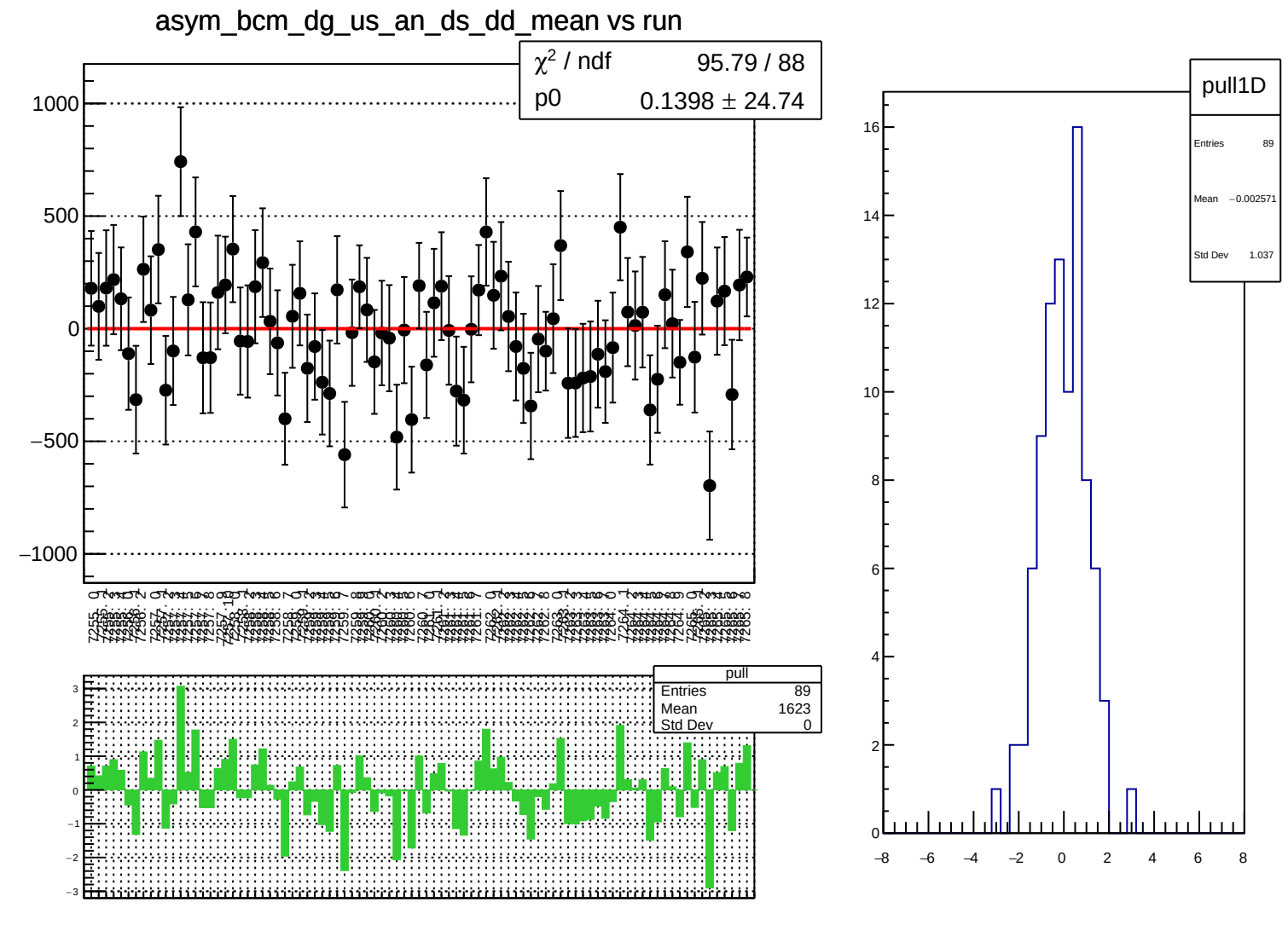

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 84.53 / 88
p0 −2.25 ± 21.1
1000
800
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean −215.6
Std Dev 0
3
2
1
0
−1
−2

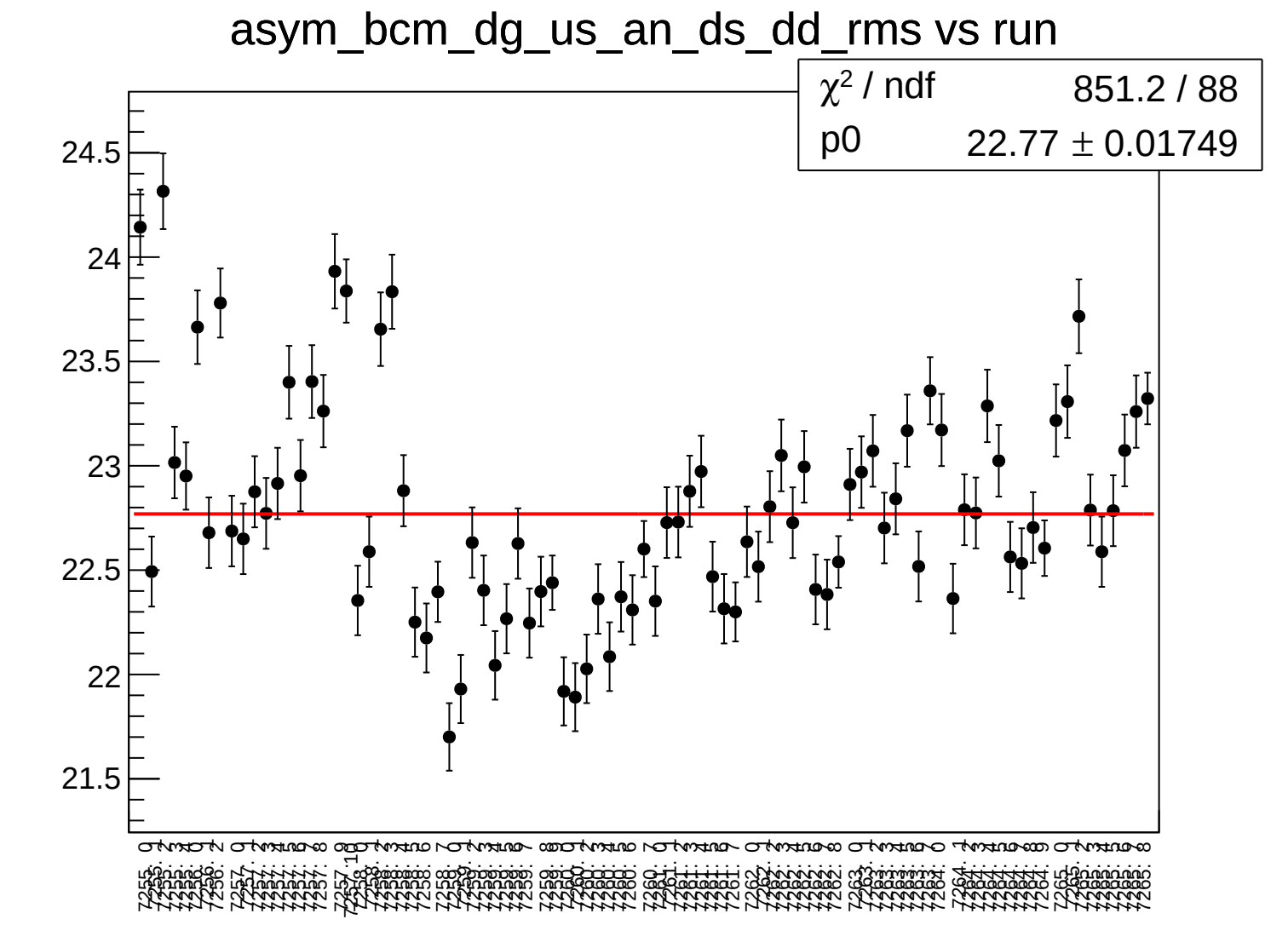

pull1D
Entries 89
Mean −0.003327
Std Dev 0.9746
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

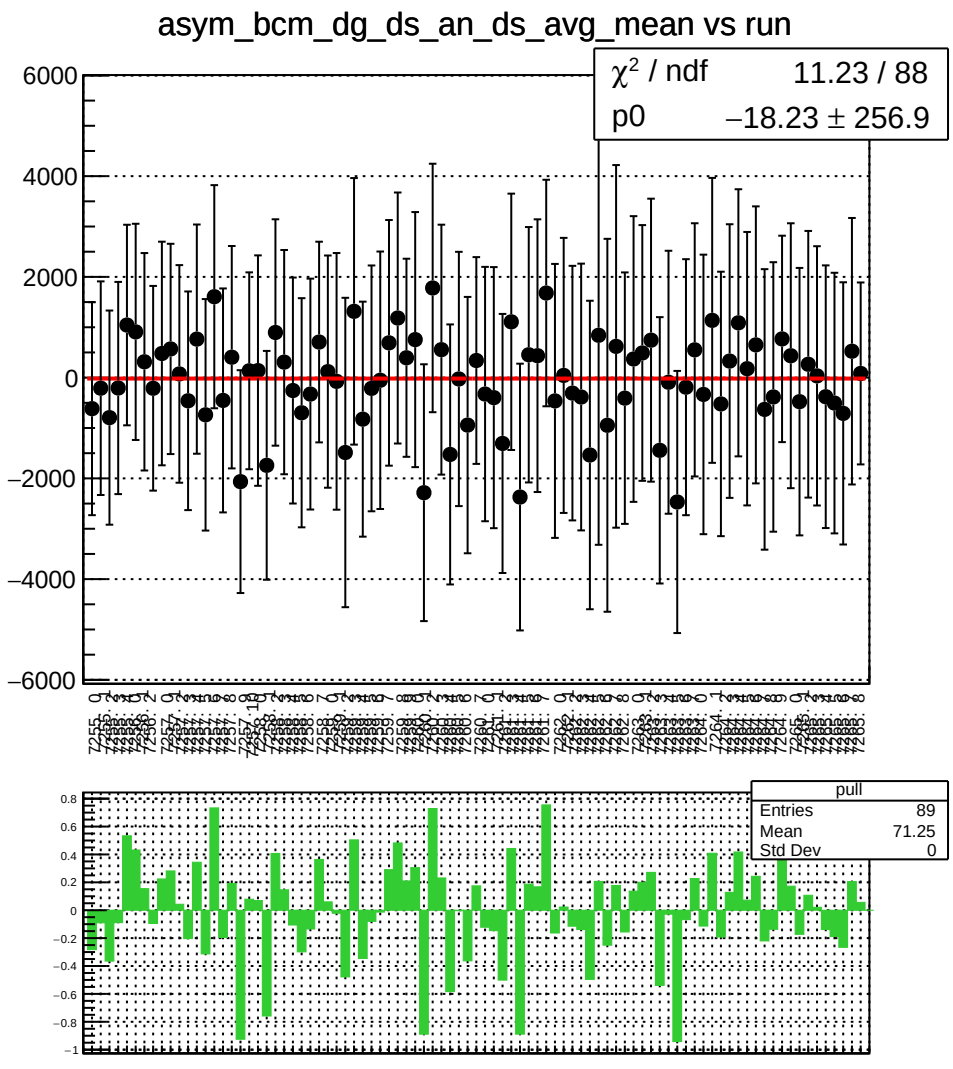

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 1.298e+04 / 88
p0 19.35 ± 0.01492
22
21
20
19
18
17
16

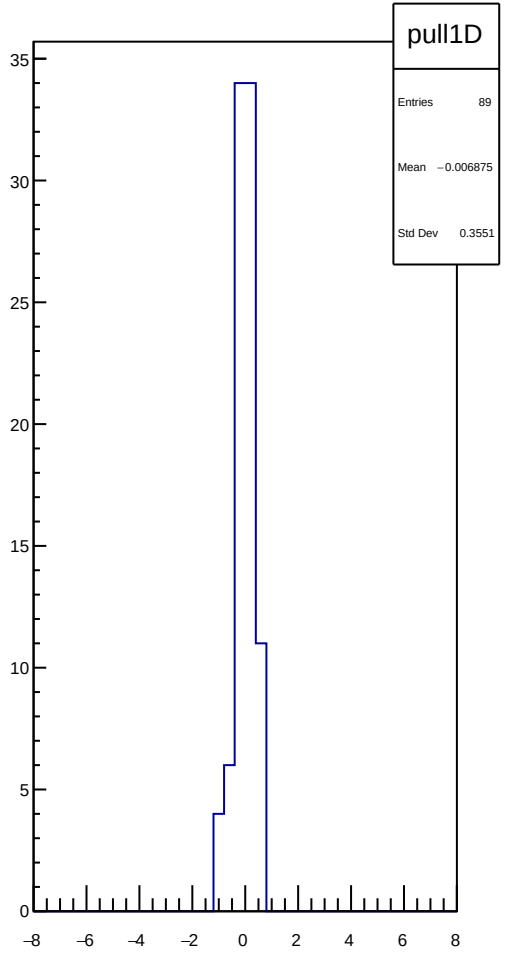

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 12.37 / 88
p0 2.057 ± 256.2
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 110.6
Std Dev 0
pull1D
Entries 89
Mean −0.009256
Std Dev 0.3728
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

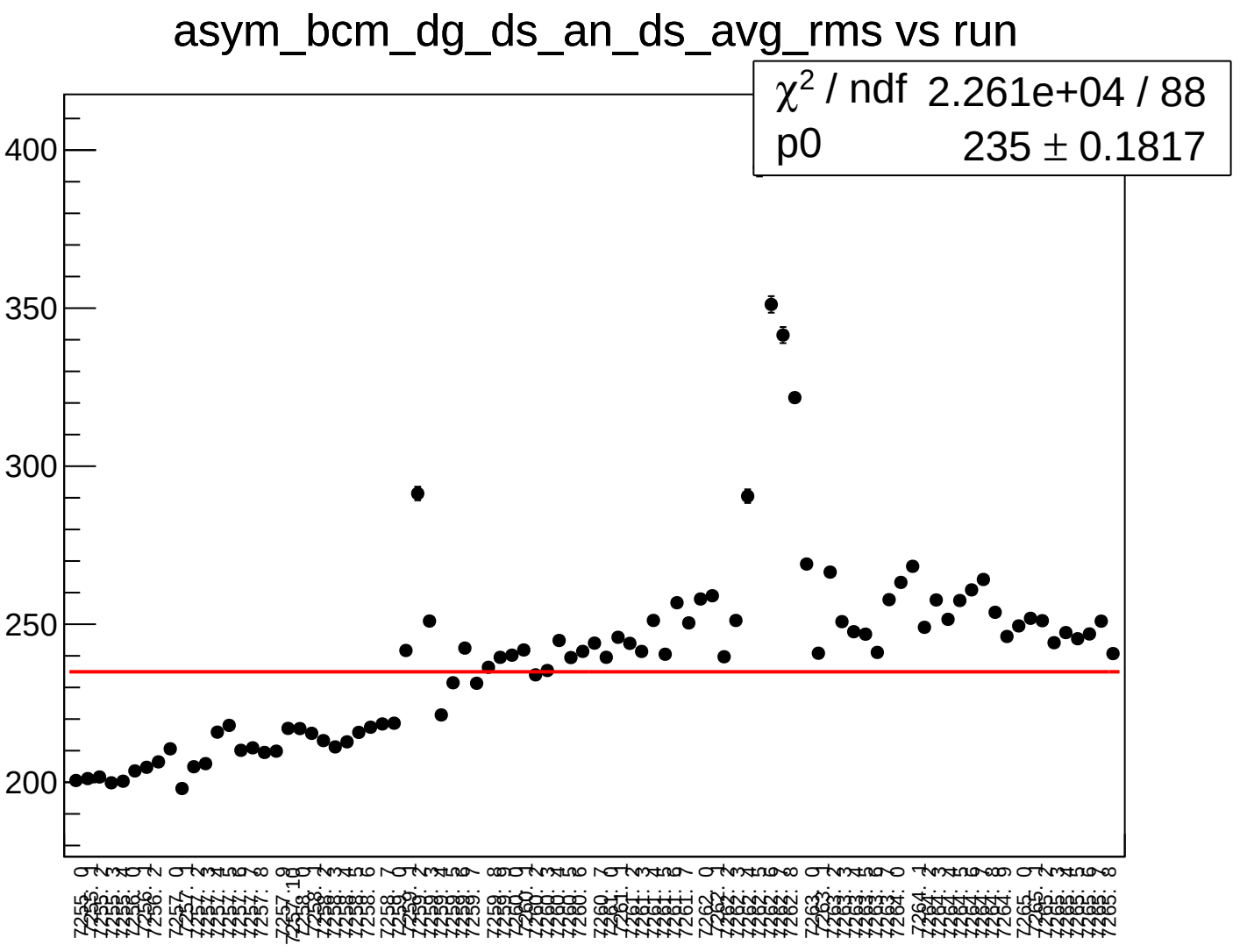

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 2.206e+04 / 88
p0 234.3 ± 0.1811
400
350
300
250
200

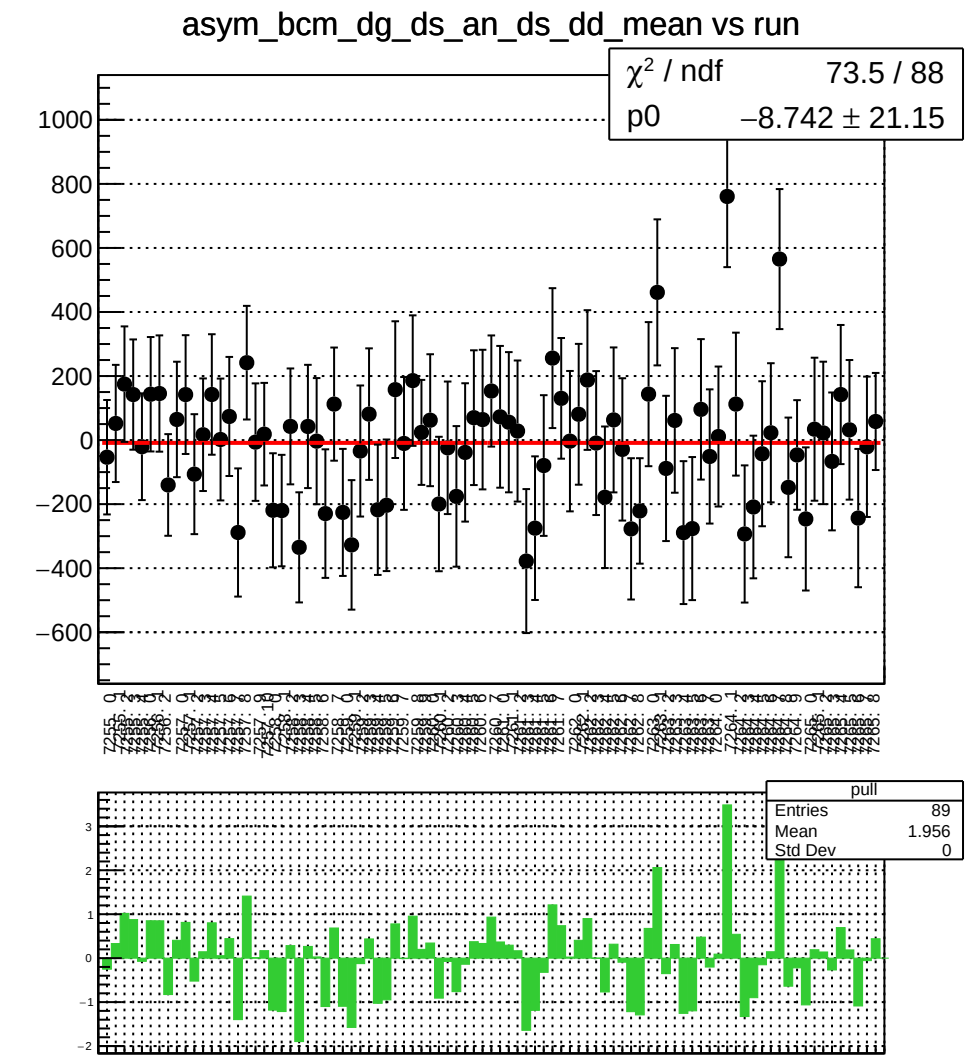

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 95.79 / 88
p0 0.1398 ± 24.74
1000
500
0
−500
−1000
pull
Entries 89
Mean 1623
Std Dev 0
pull1D
Entries 89
Mean −0.002571
Std Dev 1.037

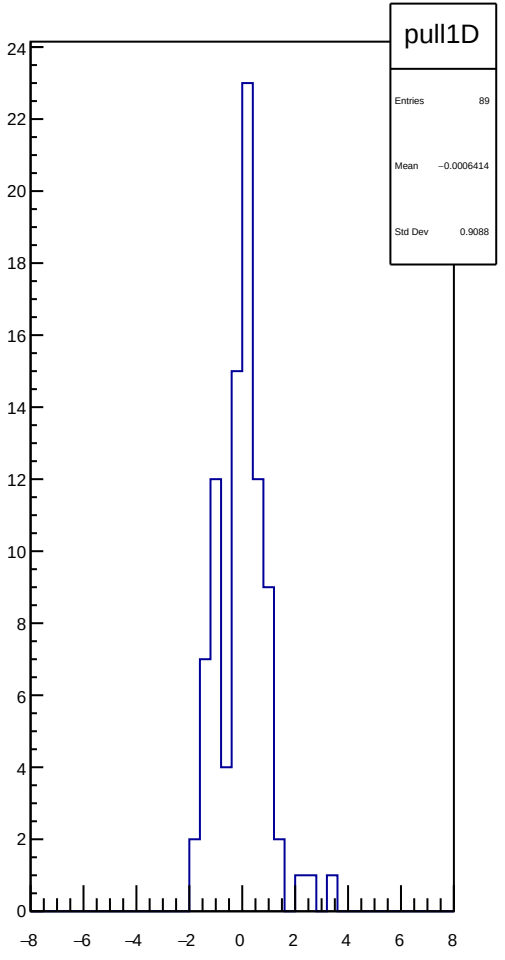

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 851.2 / 88
p0 22.77 ± 0.01749
24.5
24
23.5
23
22.5
22
21.5

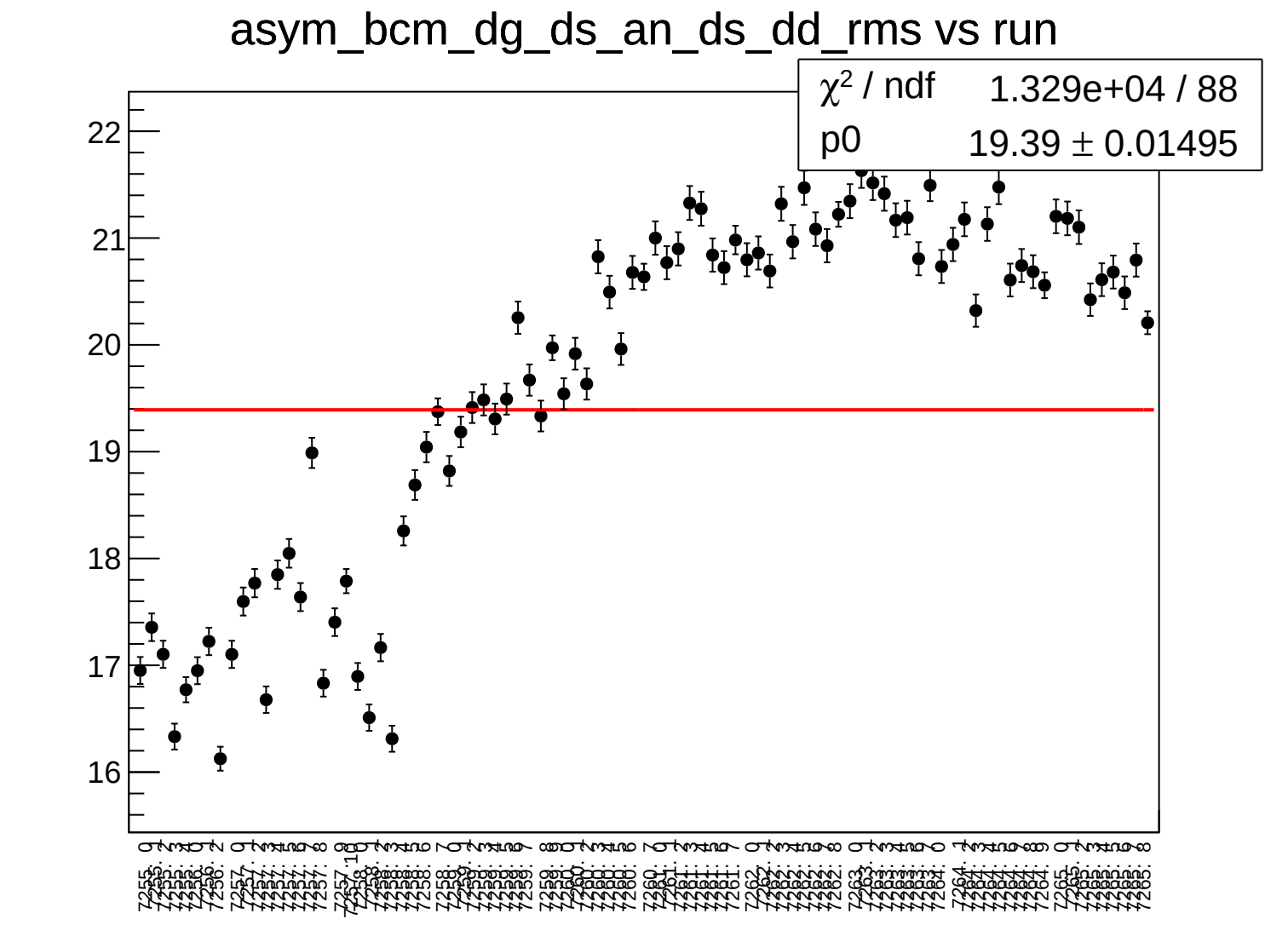

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 11.23 / 88
p0 −18.23 ± 256.9
pull
Entries 89
Mean 71.25
Std Dev 0

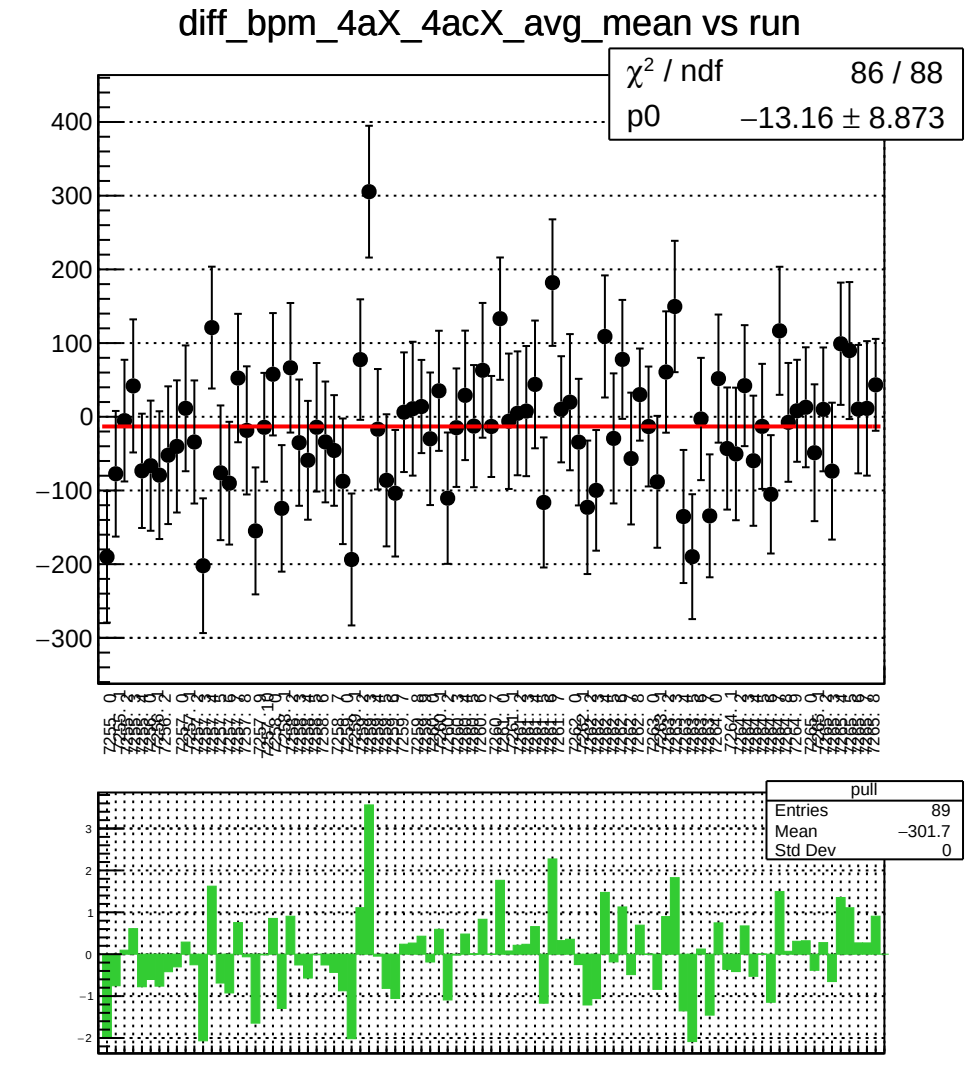

pull1D
Entries 89
Mean −0.006875
Std Dev 0.3551

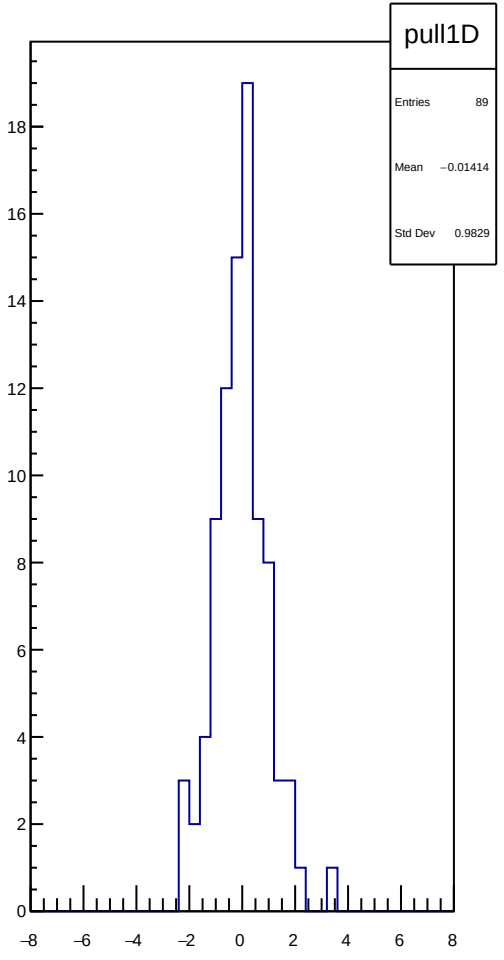

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 2.261e+04 / 88
p0 235 ± 0.1817
400
350
300
250
200

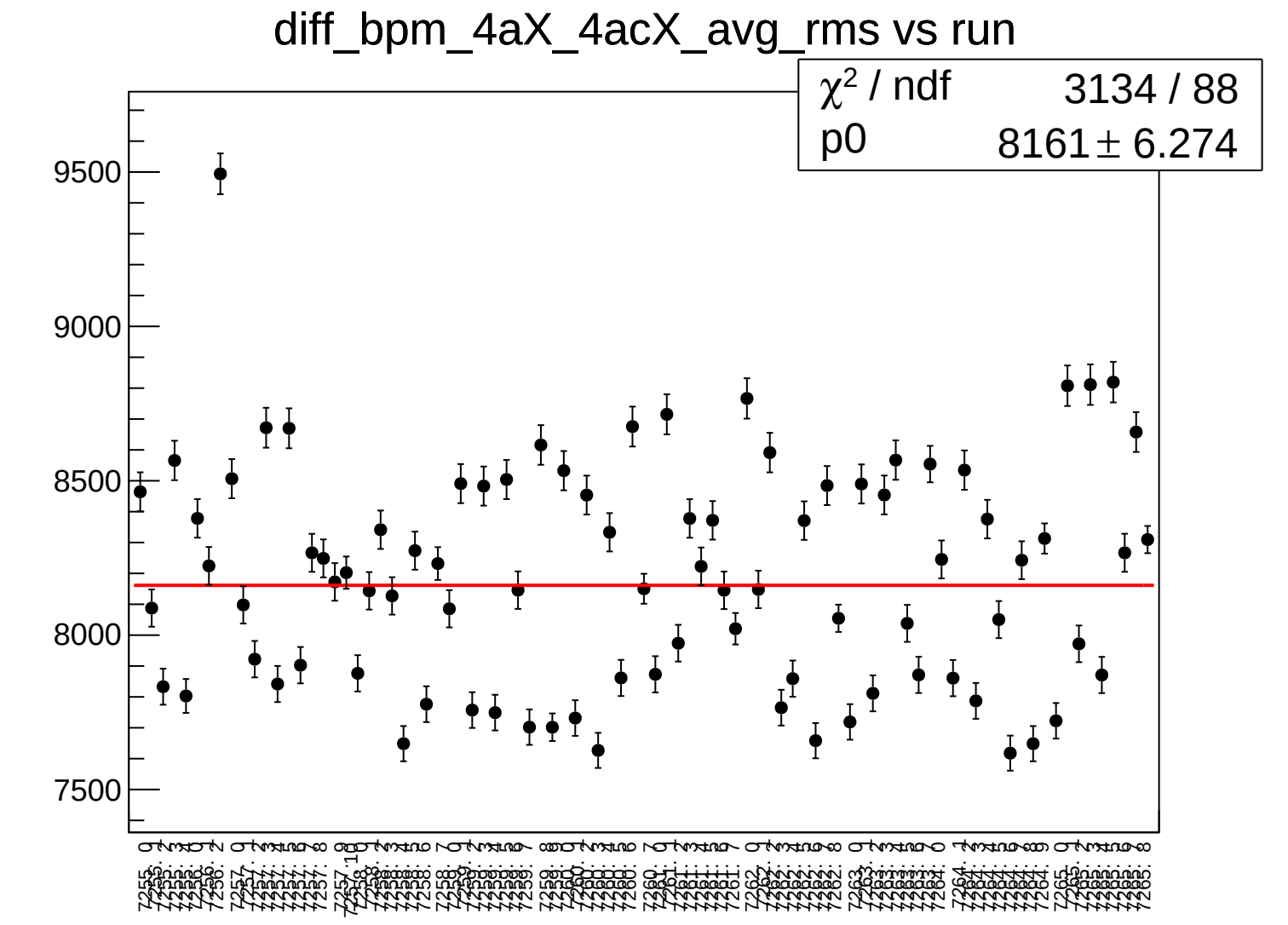

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 73.5 / 88
p0 −8.742 ± 21.15
pull
Entries 89
Mean 1.956
Std Dev 0

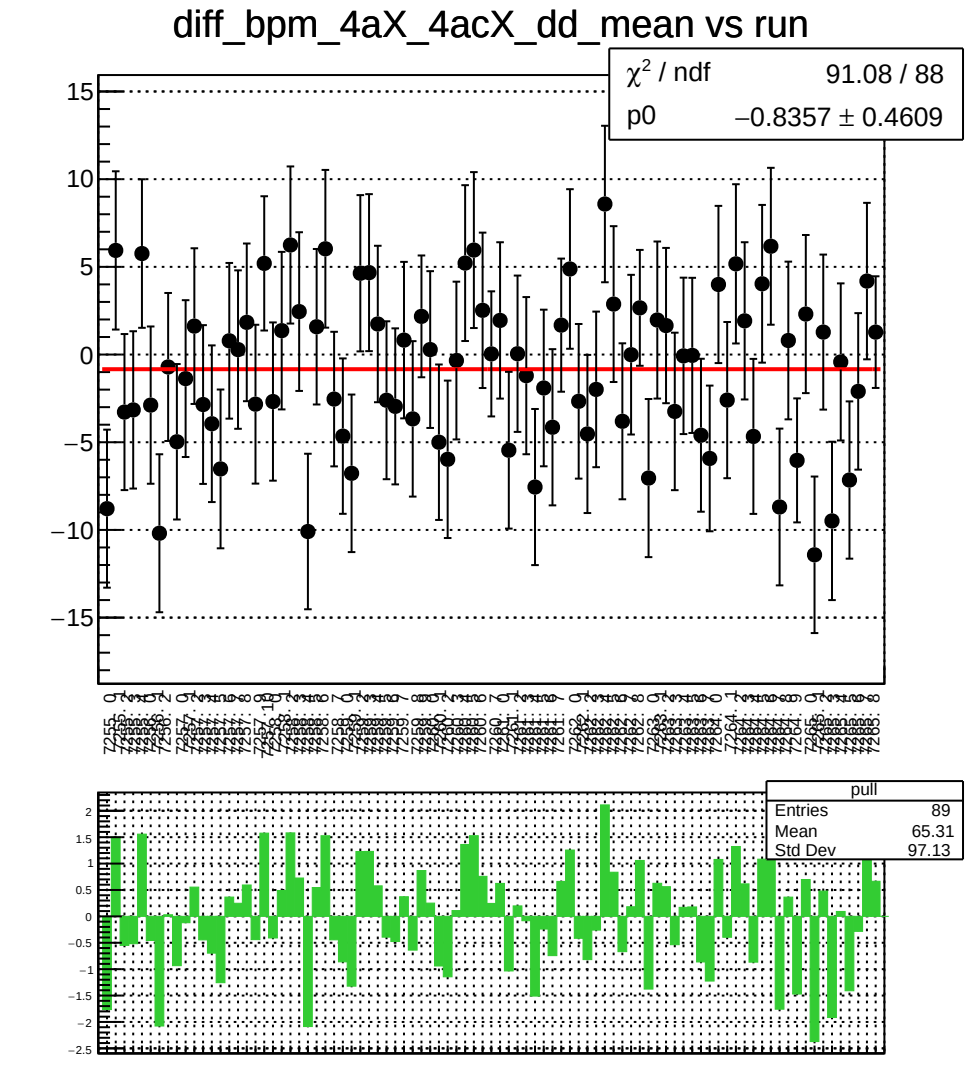

pull1D
Entries 89
Mean −0.0006414
Std Dev 0.9088

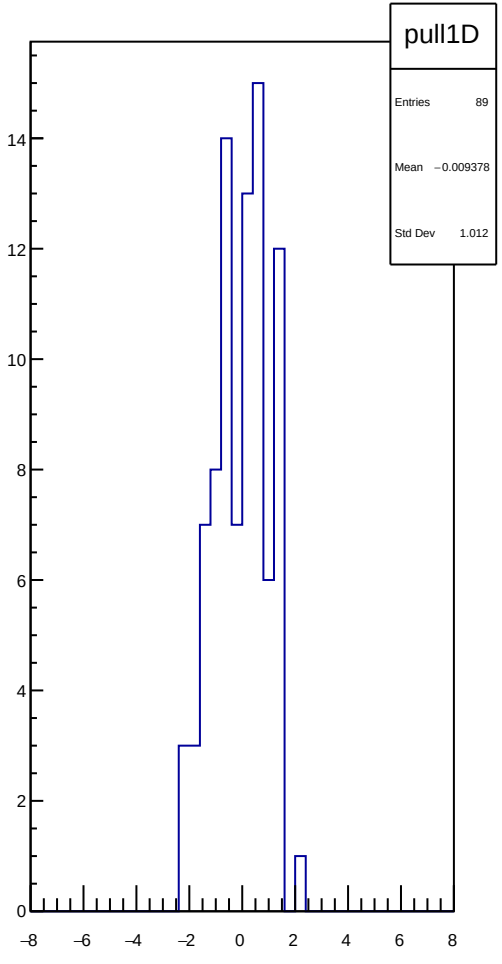

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1.329e+04 / 88
p0 19.39 ± 0.01495
22
21
20
19
18
17
16

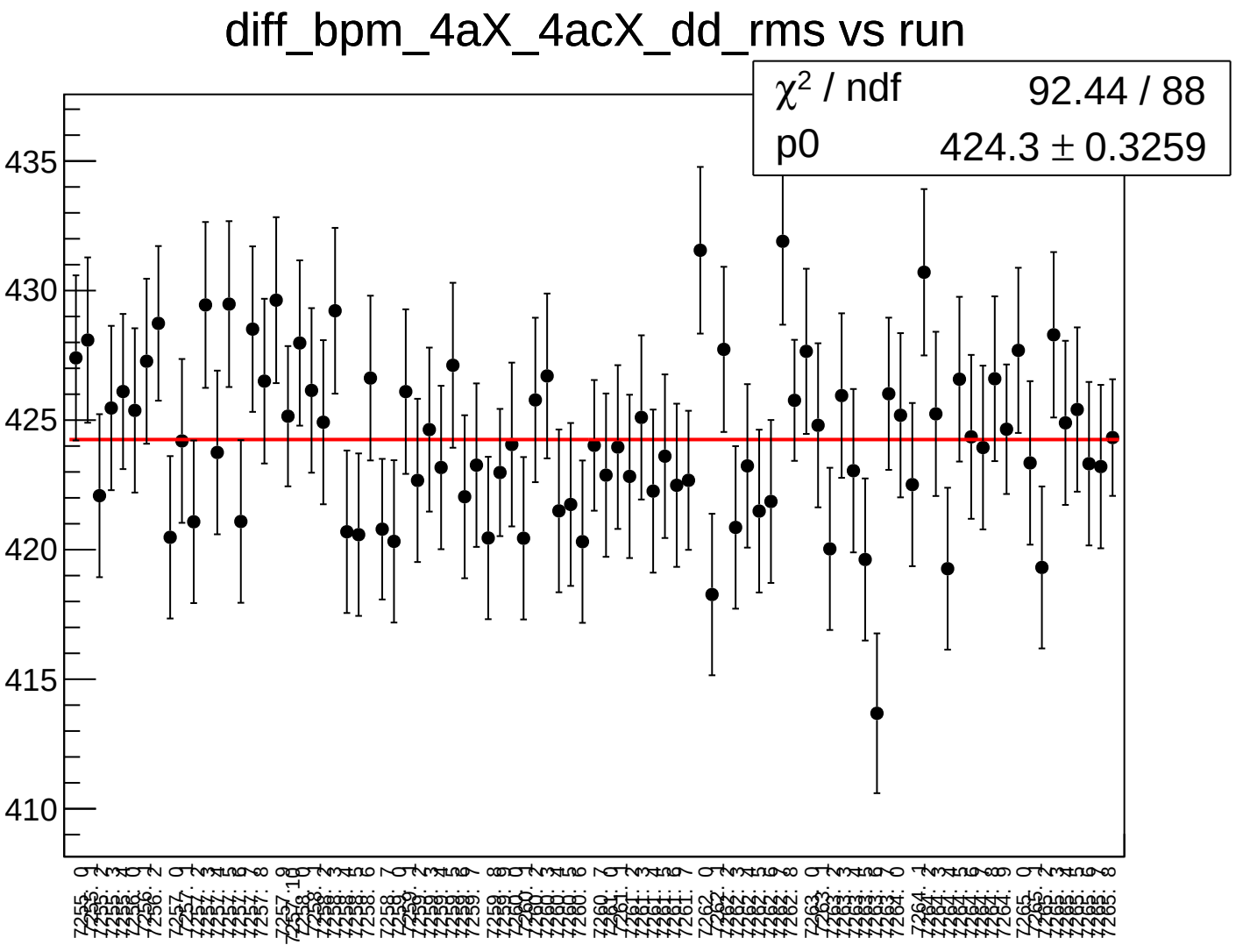

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 86 / 88
p0 −13.16 ± 8.873
pull
Entries 89
Mean −301.7
Std Dev 0

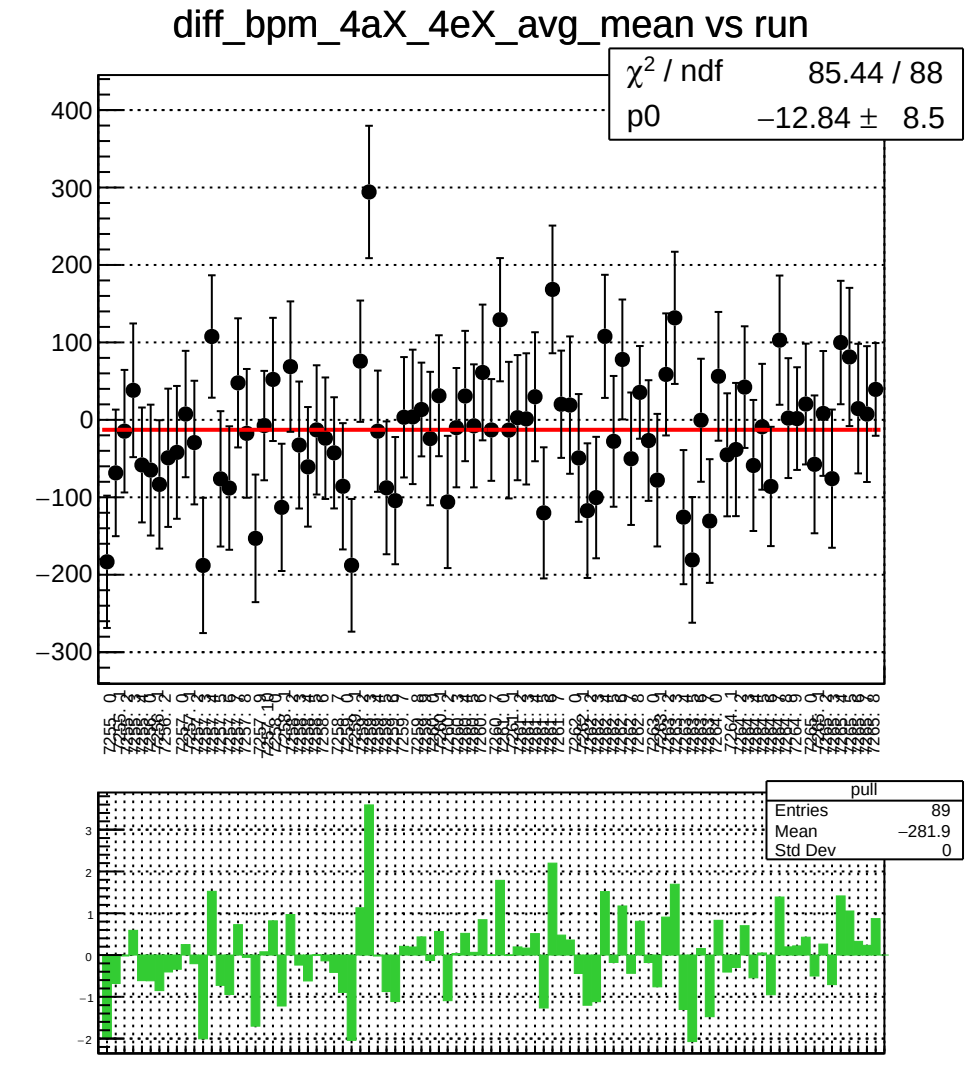

pull1D
Entries 89
Mean −0.01414
Std Dev 0.9829

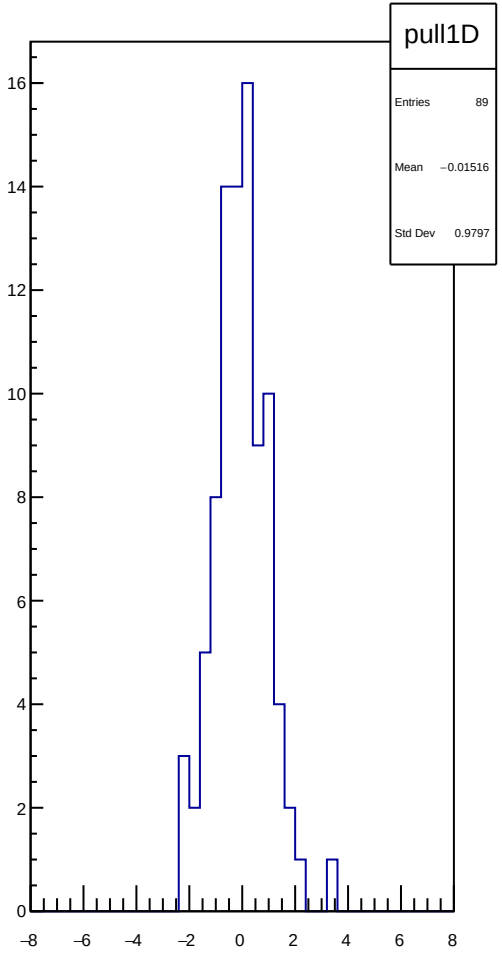

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 3134 / 88
p0 8161 ± 6.274
9500
9000
8500
8000
7500

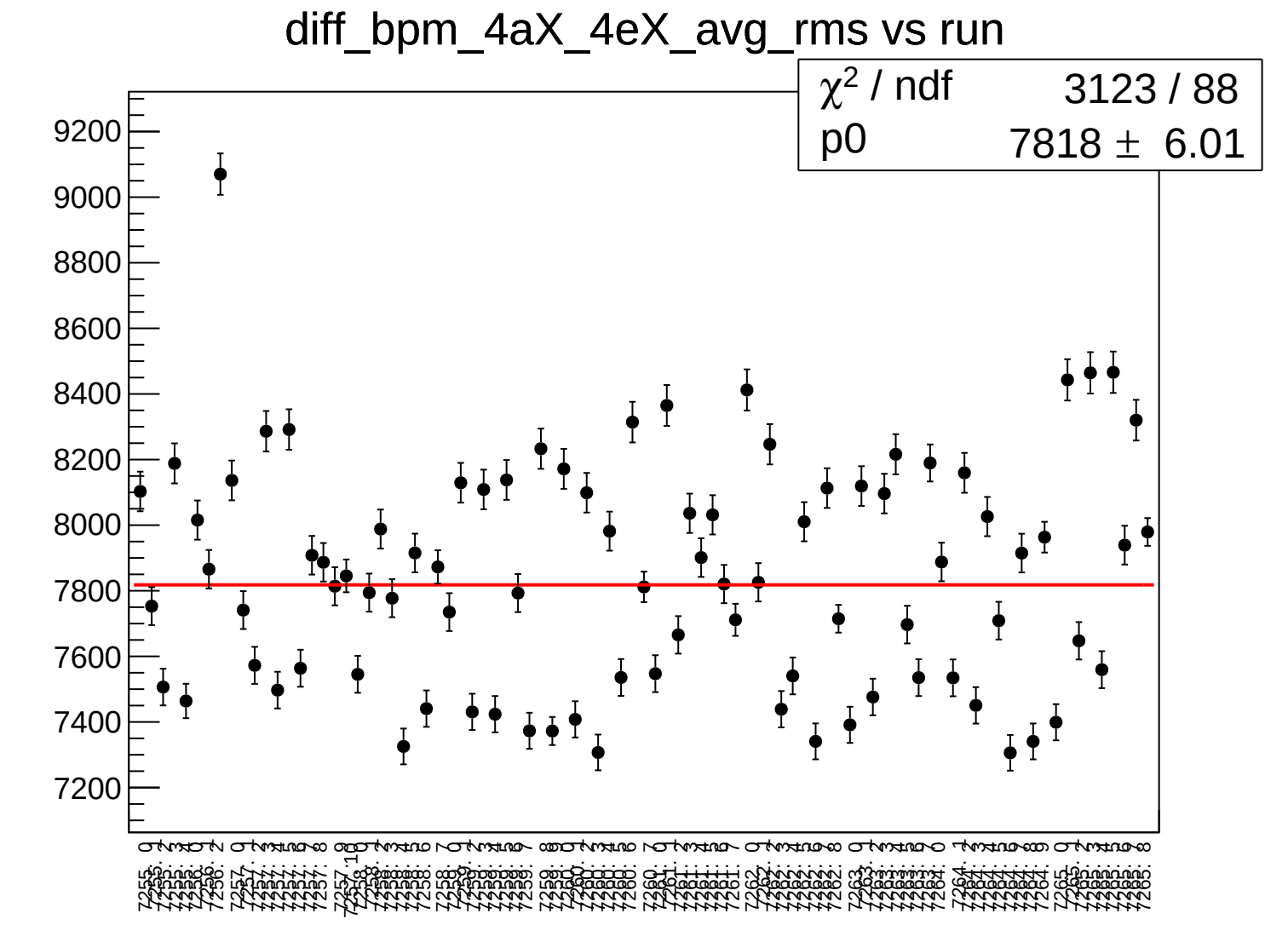

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 91.08 / 88
p0 −0.8357 ± 0.4609
pull
Entries 89
Mean 65.31
Std Dev 97.13

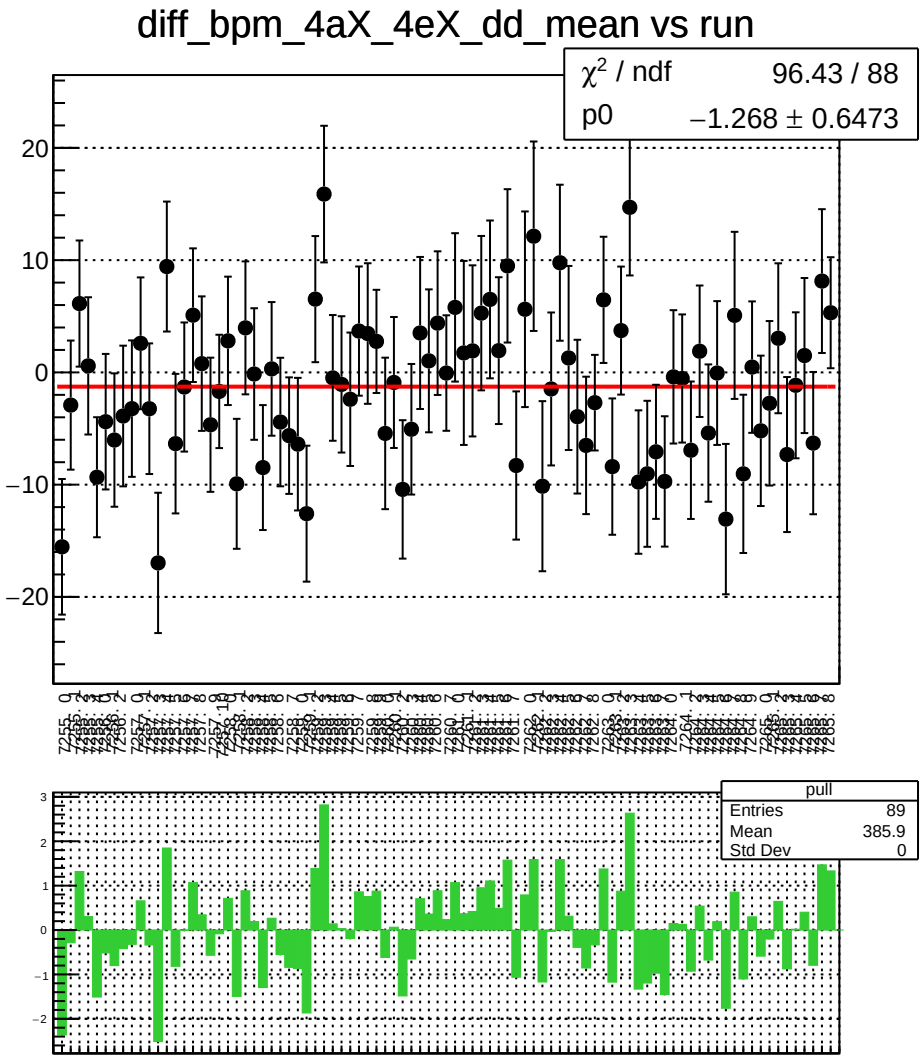

pull1D
Entries 89
Mean −0.009378
Std Dev 1.012

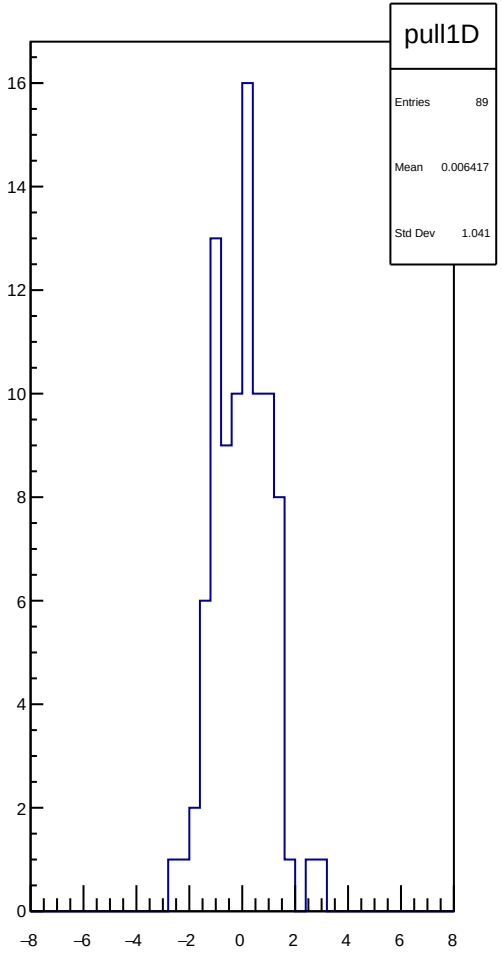

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 92.44 / 88
p0 424.3 ± 0.3259
435
430
425
420
415
410

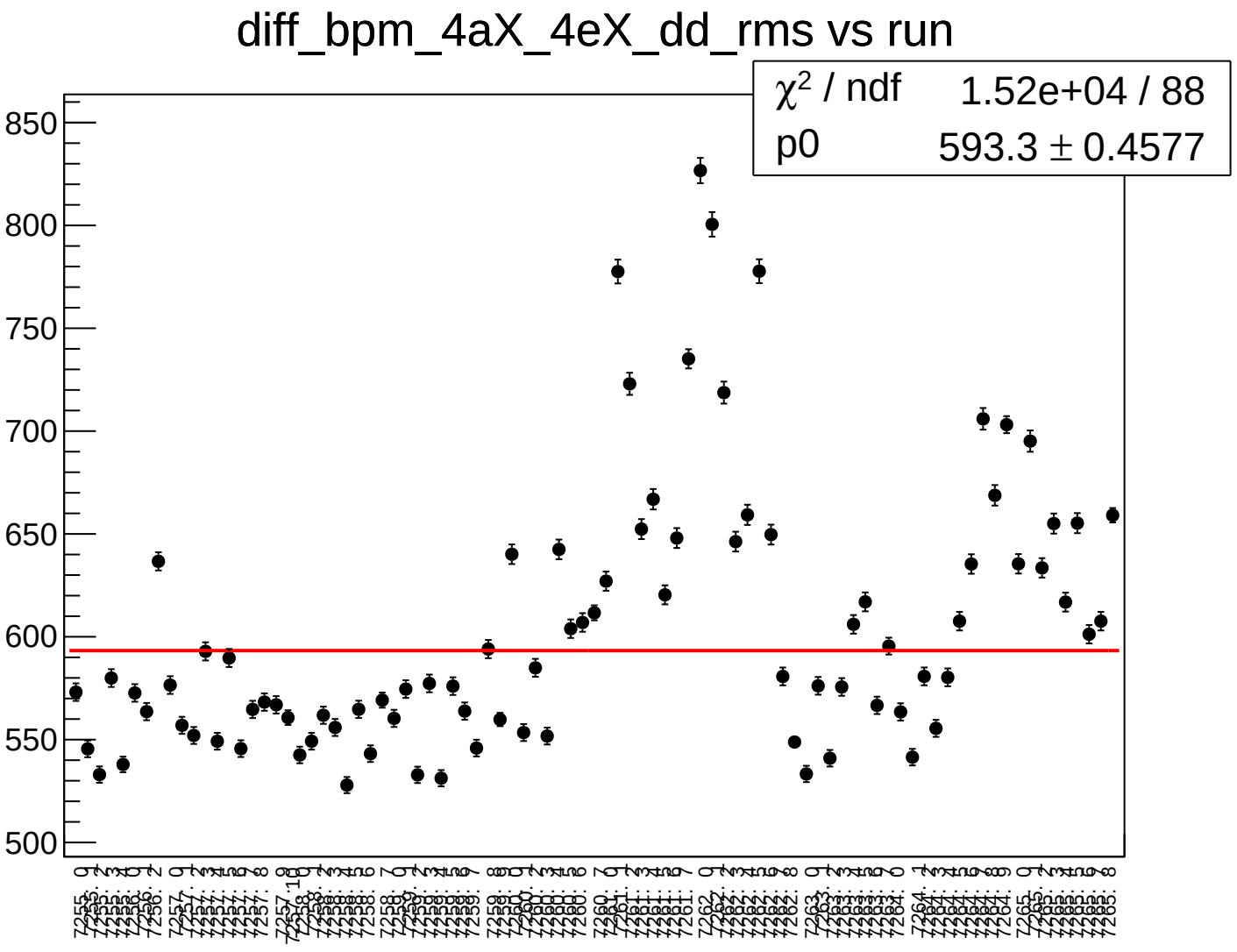

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 85.44 / 88
p0 −12.84 ± 8.5
pull
Entries 89
Mean −281.9
Std Dev 0

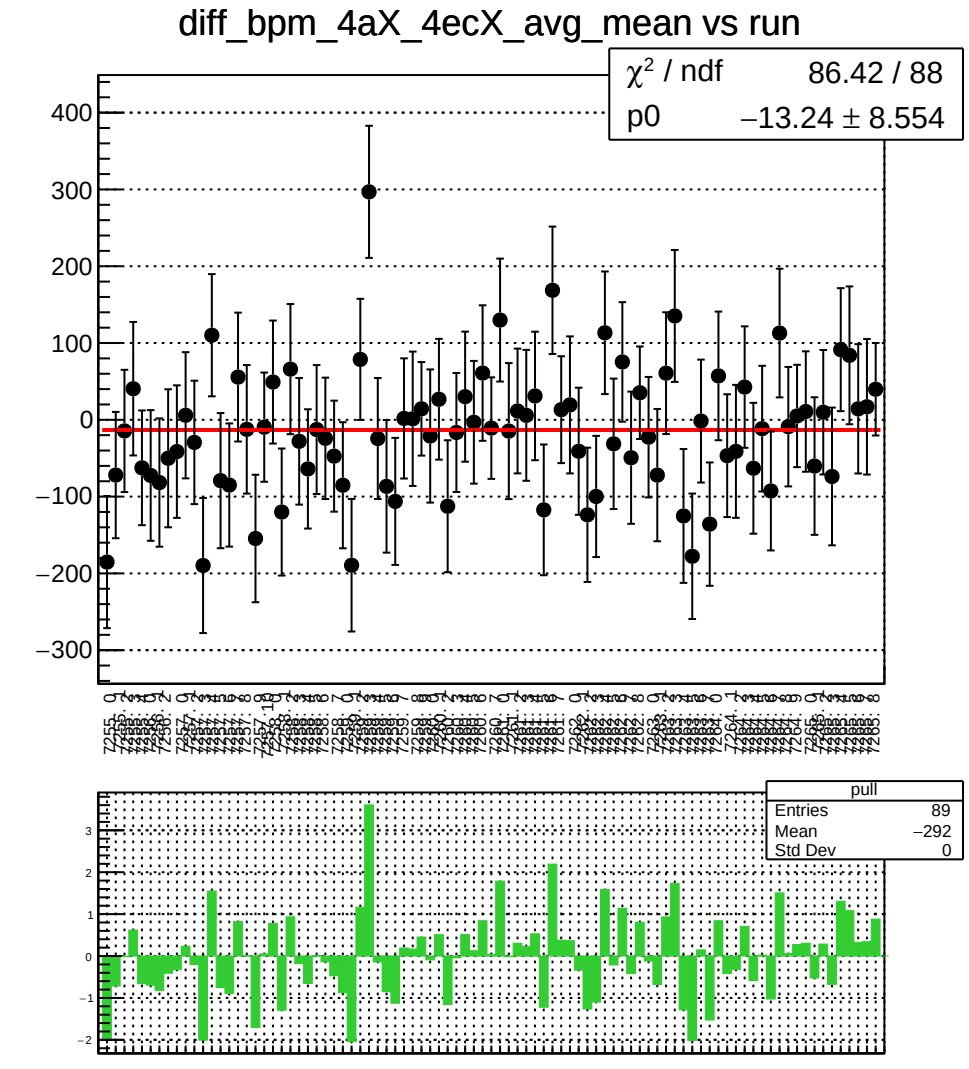

pull1D
Entries 89
Mean −0.01516
Std Dev 0.9797

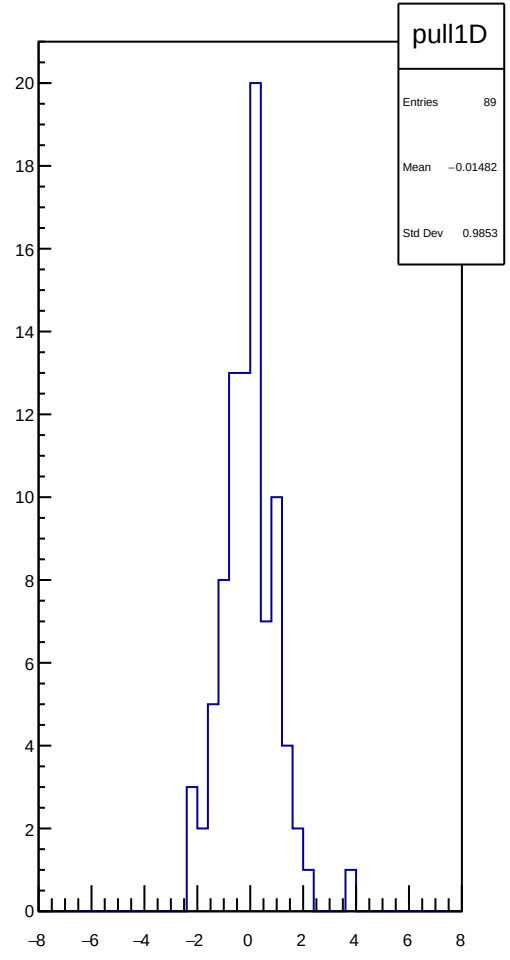

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 3123 / 88
p0 7818 ± 6.01
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

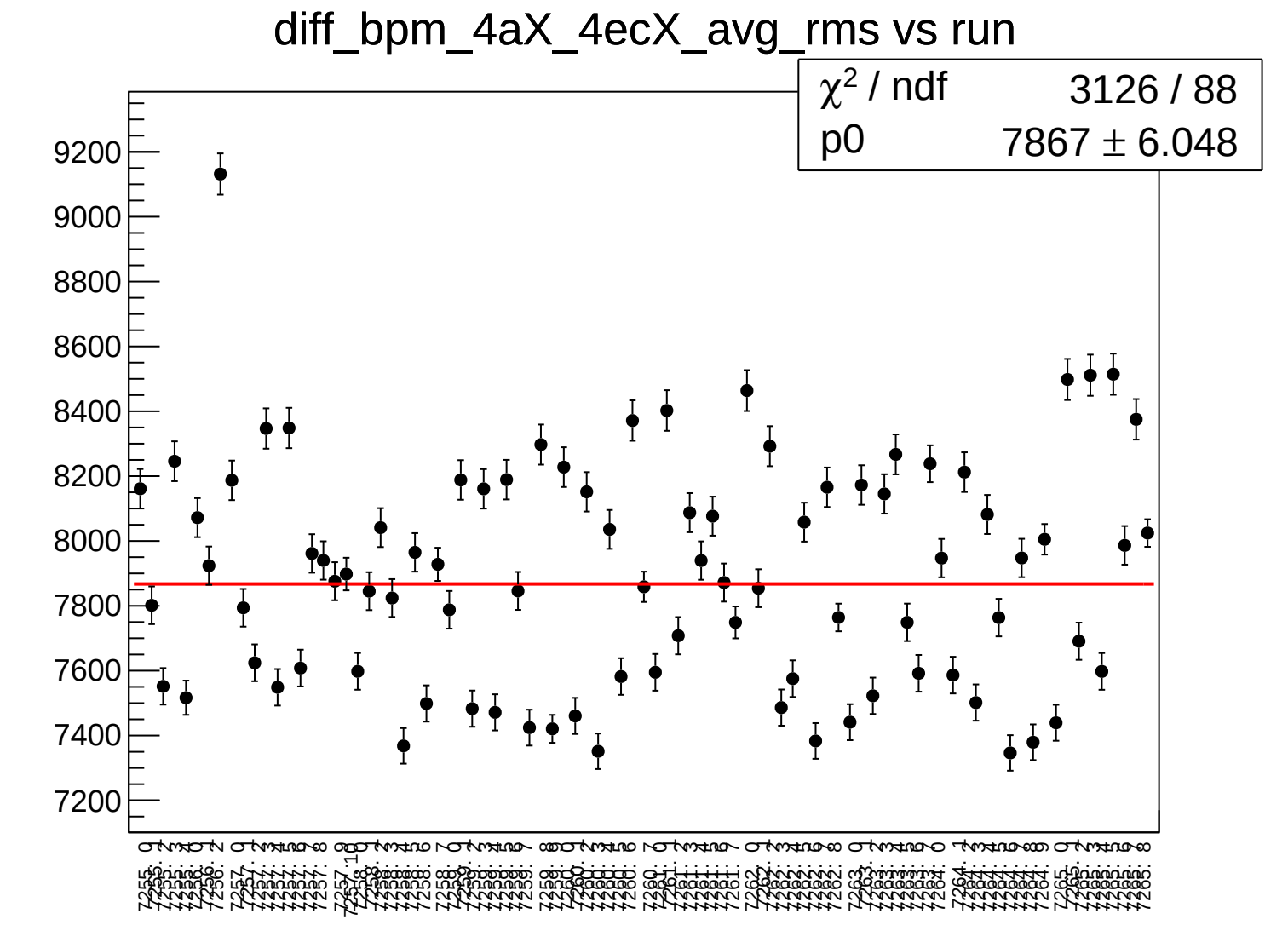

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 96.43 / 88
p0 −1.268 ± 0.6473
pull
Entries 89
Mean 385.9
Std Dev 0

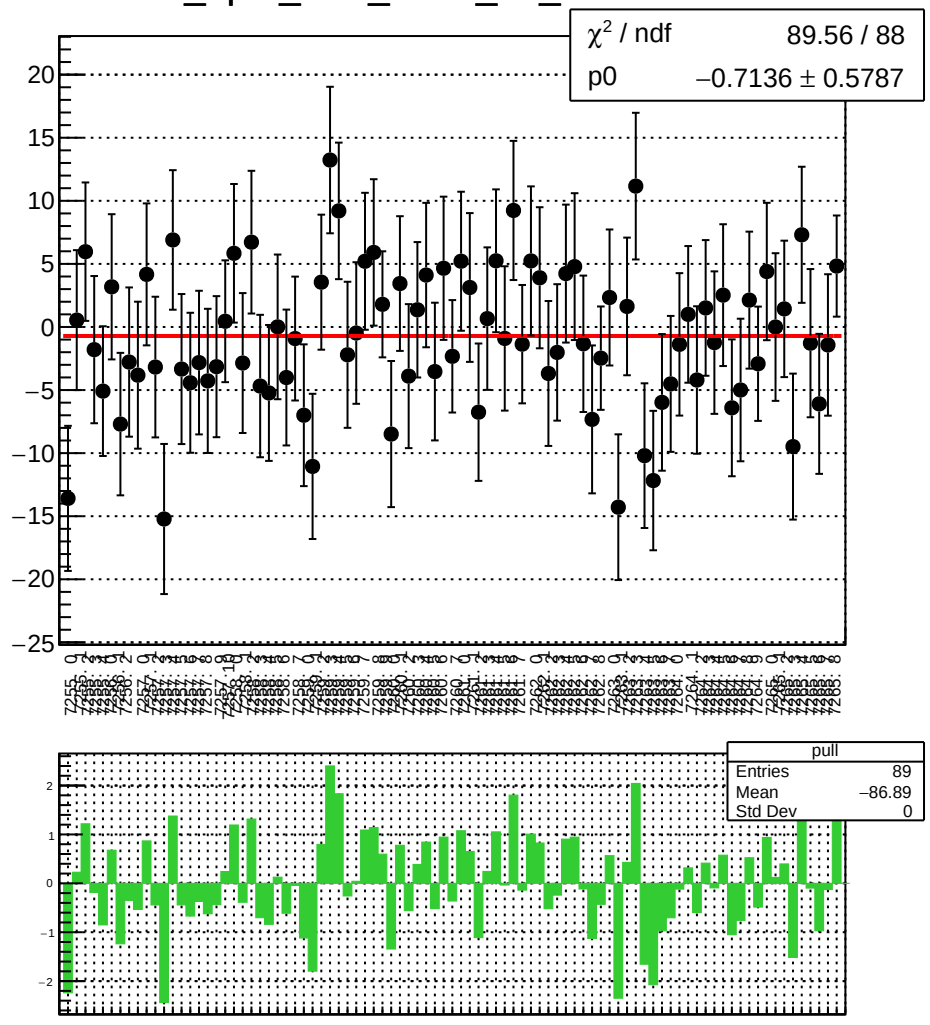

pull1D
Entries 89
Mean 0.006417
Std Dev 1.041

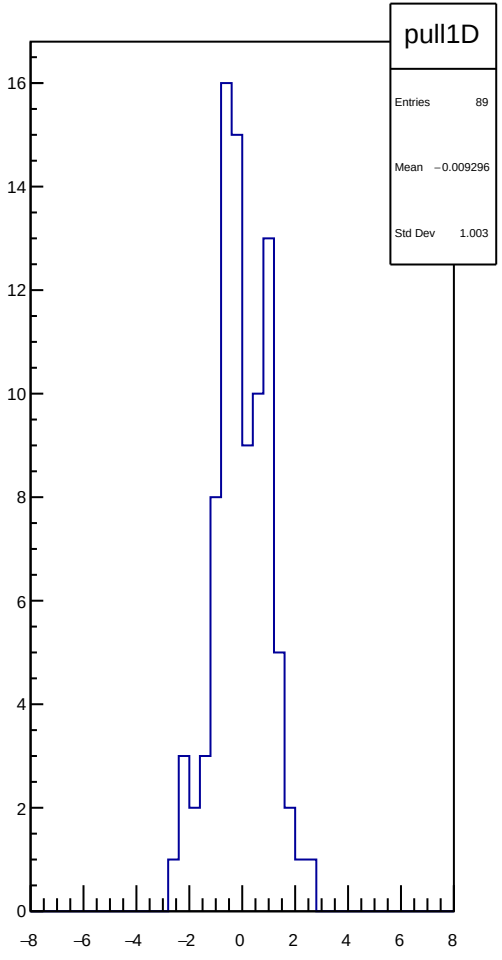

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 1.52e+04 / 88
p0 593.3 ± 0.4577
850
800
750
700
650
600
550
500

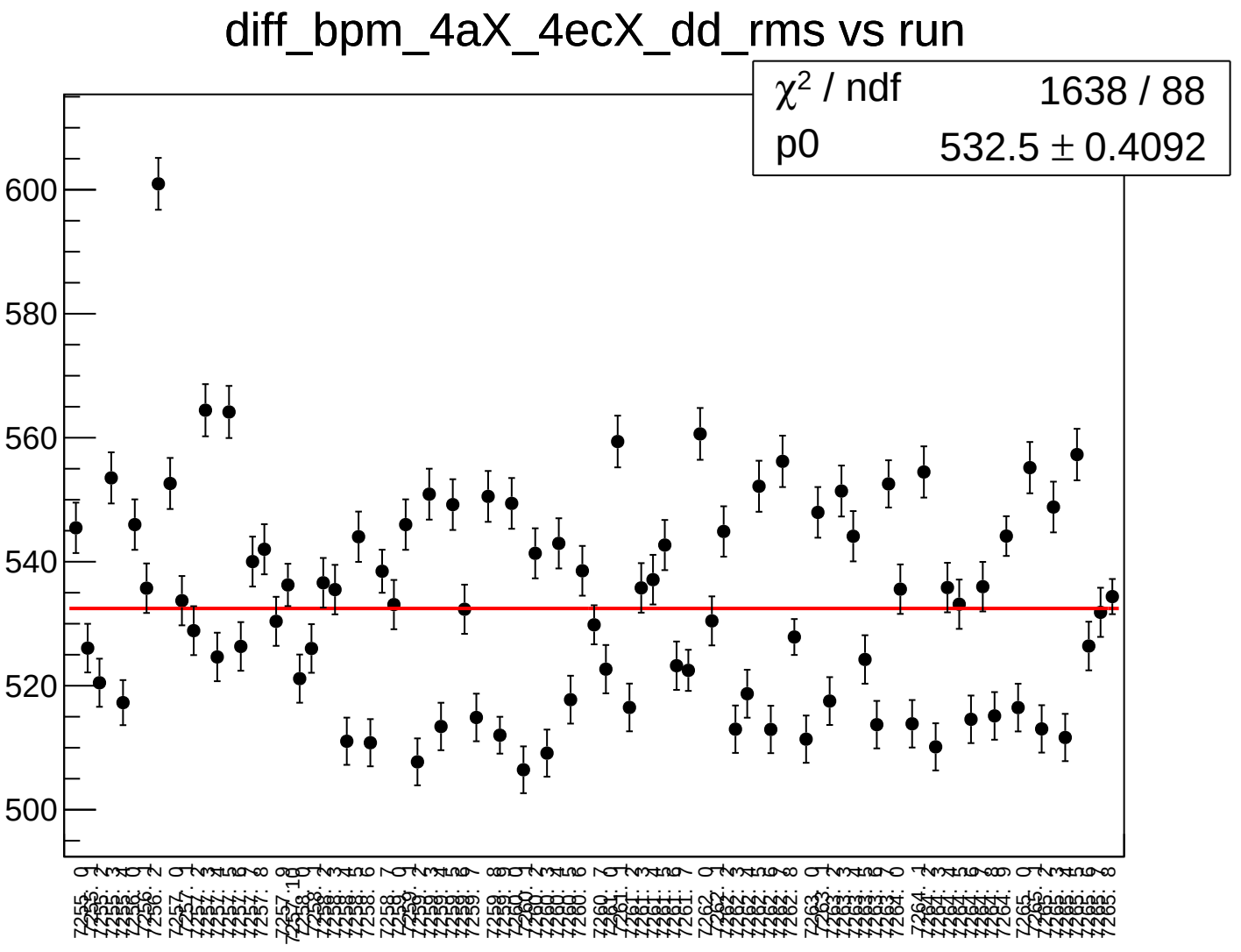

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 86.42 / 88
p0 −13.24 ± 8.554
pull
Entries 89
Mean −292
Std Dev 0

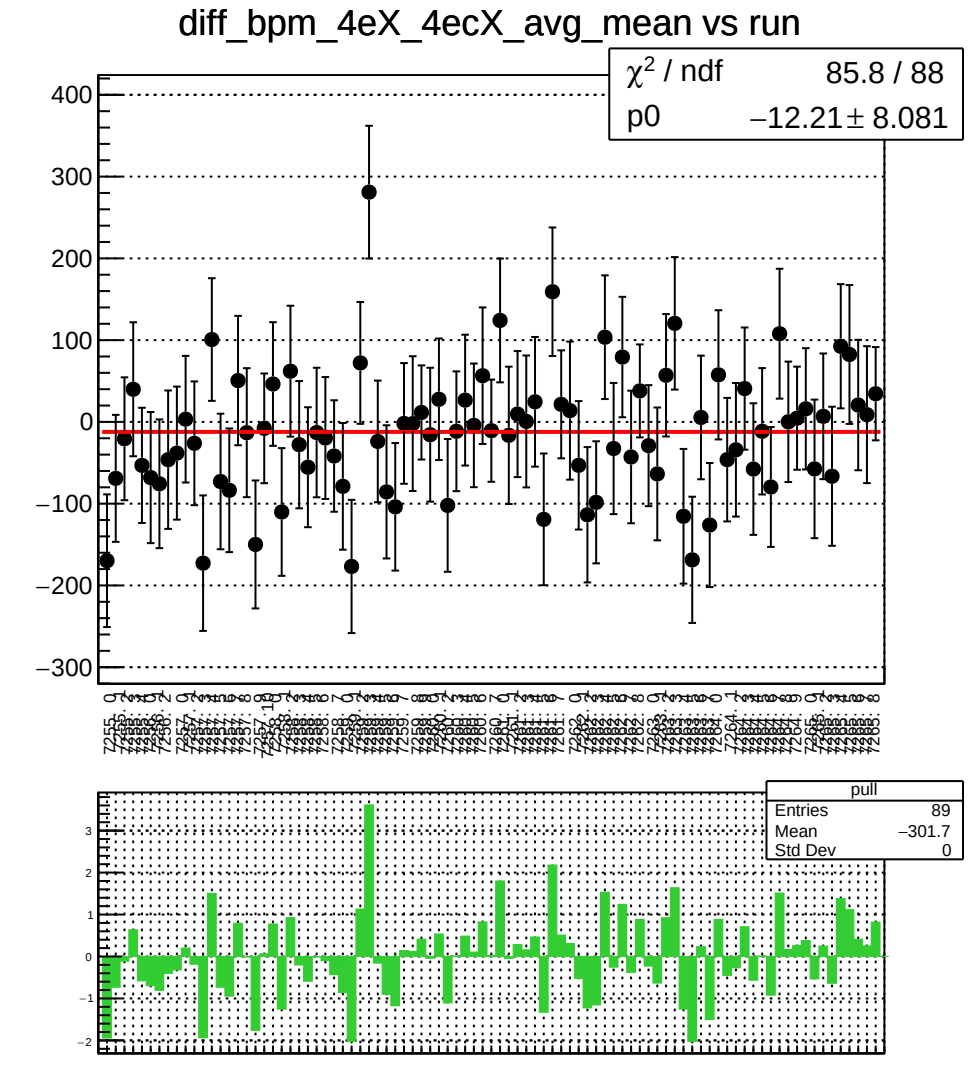

pull1D
Entries 89
Mean −0.01482
Std Dev 0.9853

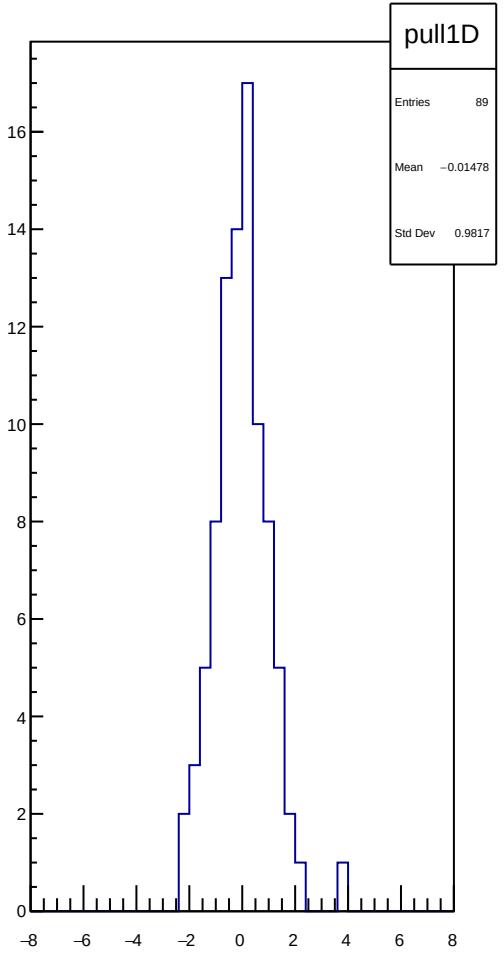

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 3126 / 88
p0 7867 ± 6.048
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

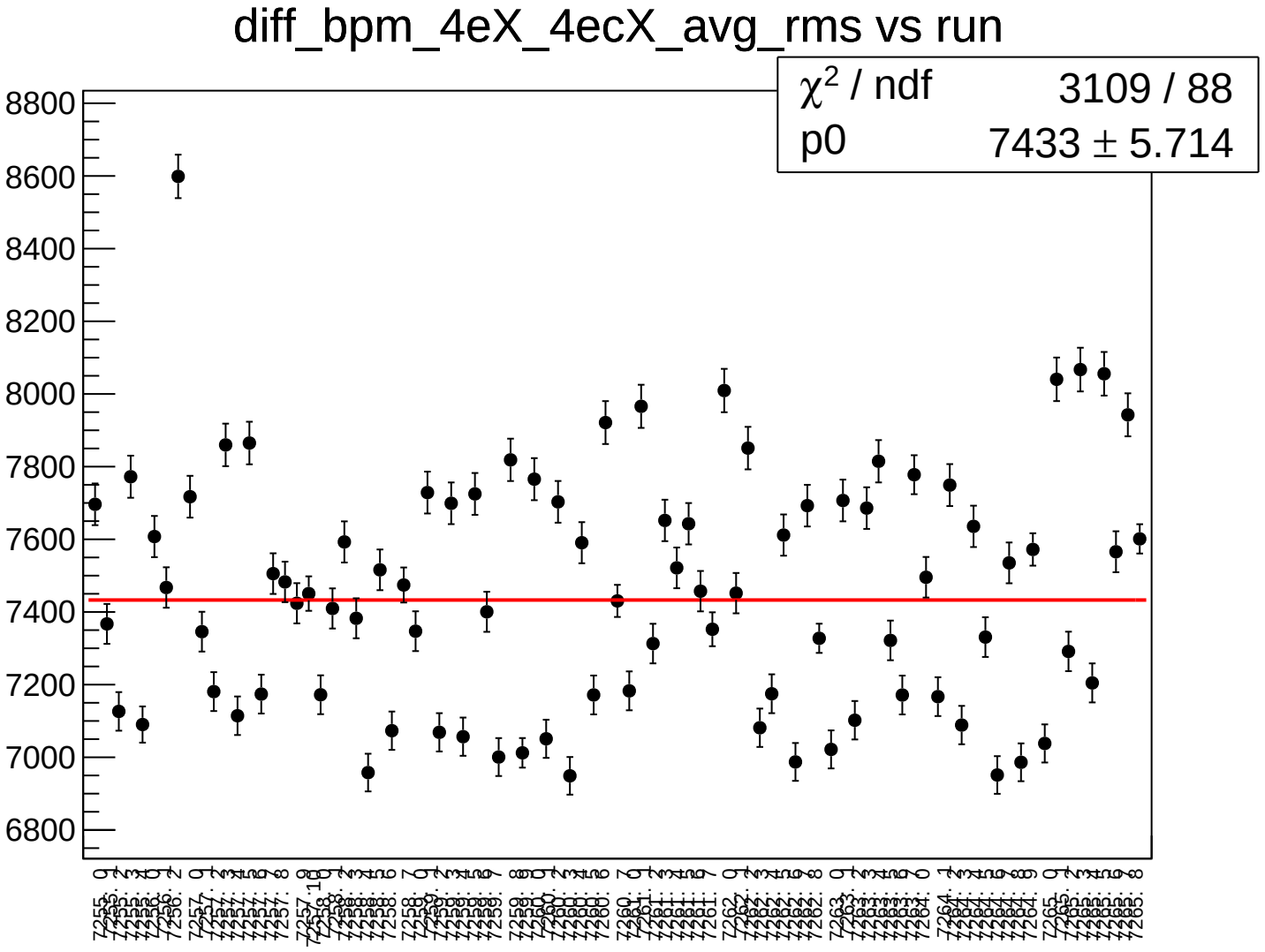

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 89.56 / 88
p0 −0.7136 ± 0.5787
pull
Entries 89
Mean −86.89
Std Dev 0

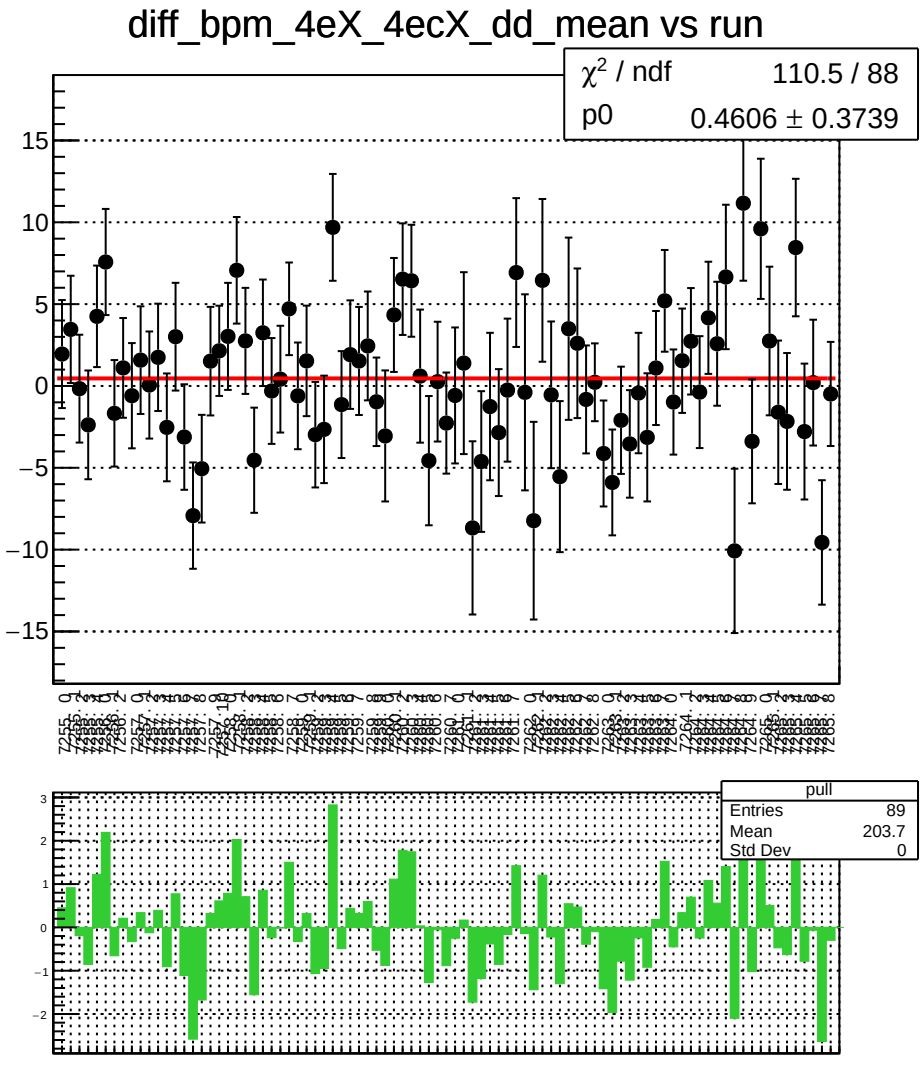

pull1D
Entries 89
Mean −0.009296
Std Dev 1.003

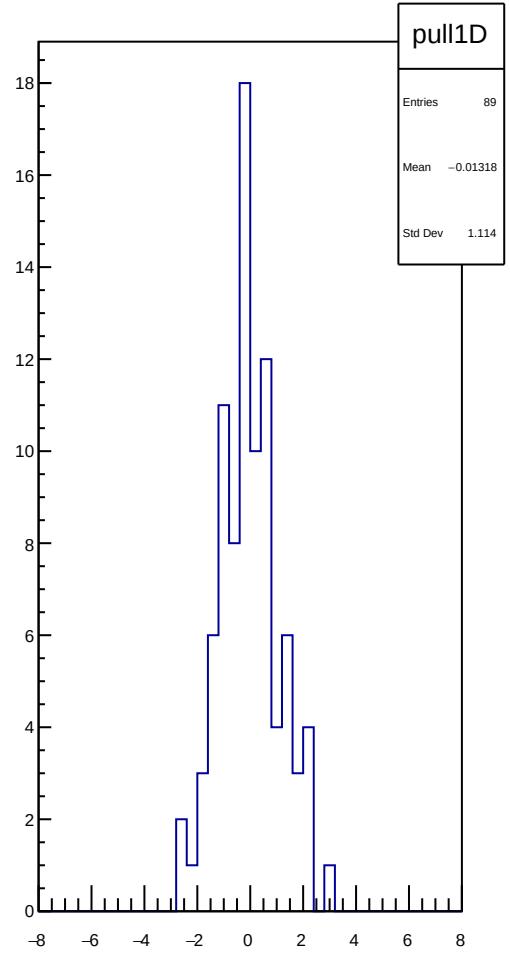

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1638 / 88
p0 532.5 ± 0.4092
600
580
560
540
520
500

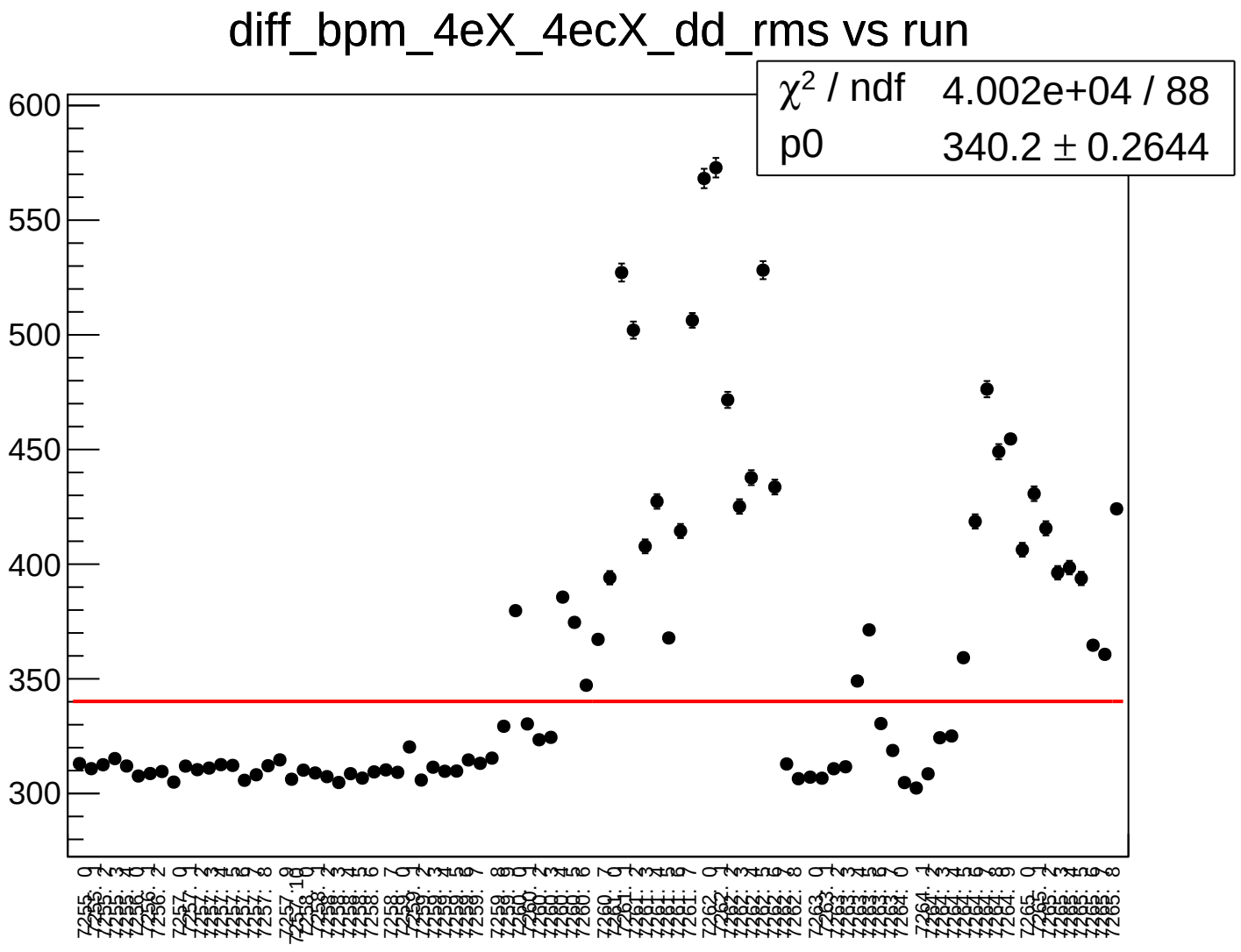

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 85.8 / 88
p0 −12.21 ± 8.081
pull
Entries 89
Mean −301.7
Std Dev 0

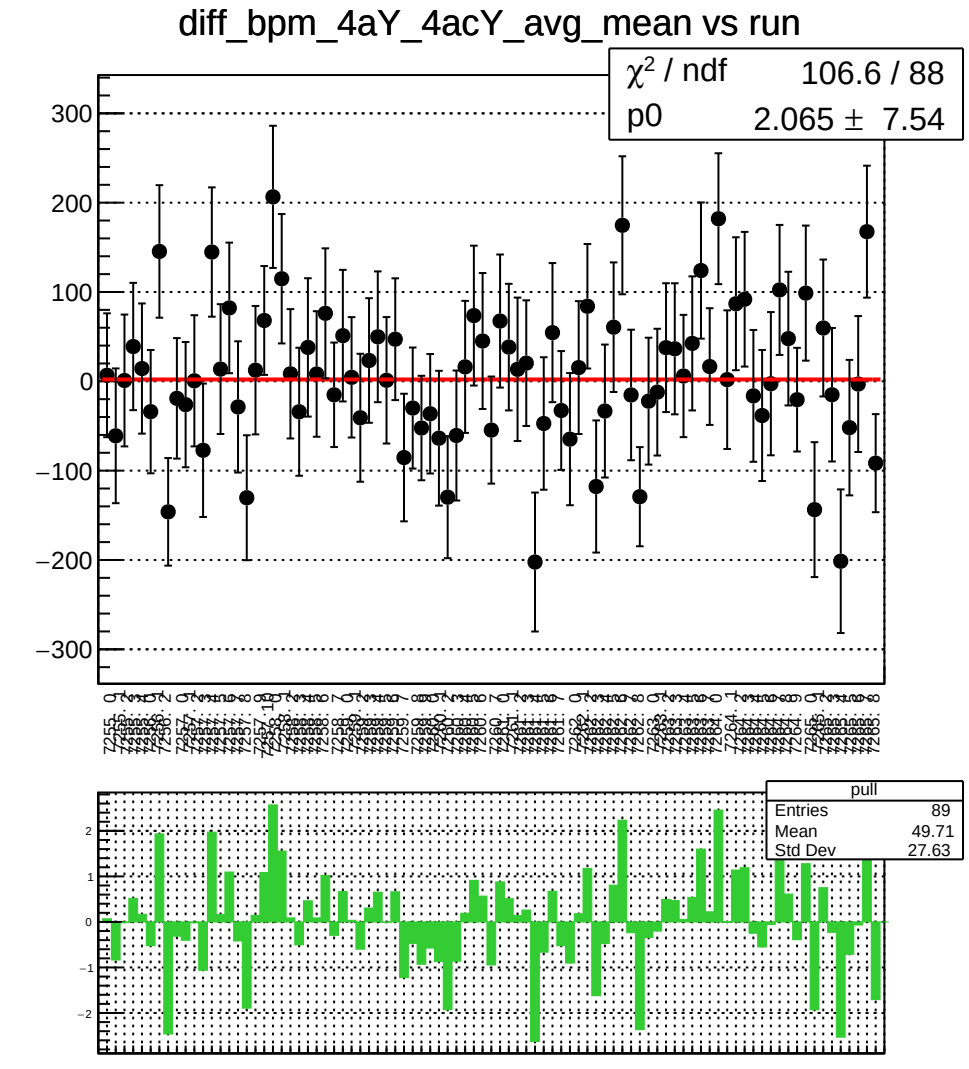

pull1D
Entries 89
Mean −0.01478
Std Dev 0.9817

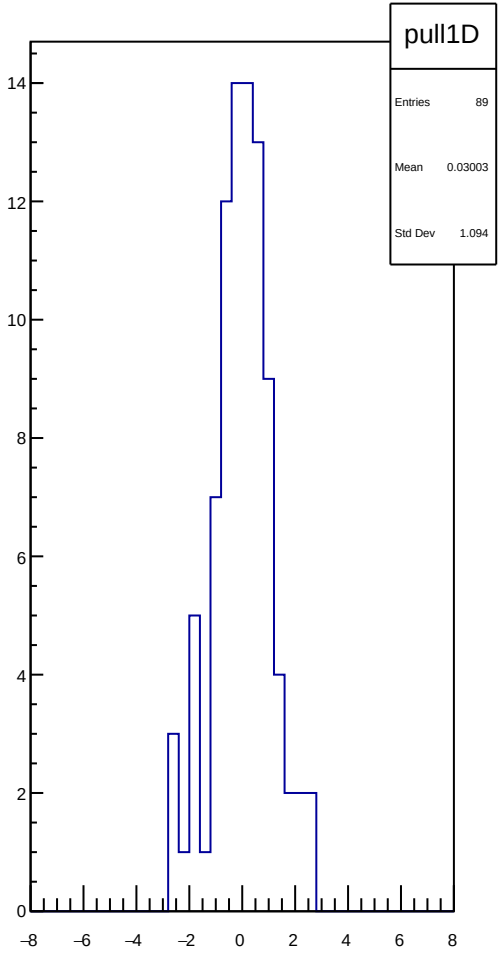

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 3109 / 88
p0 7433 ± 5.714
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

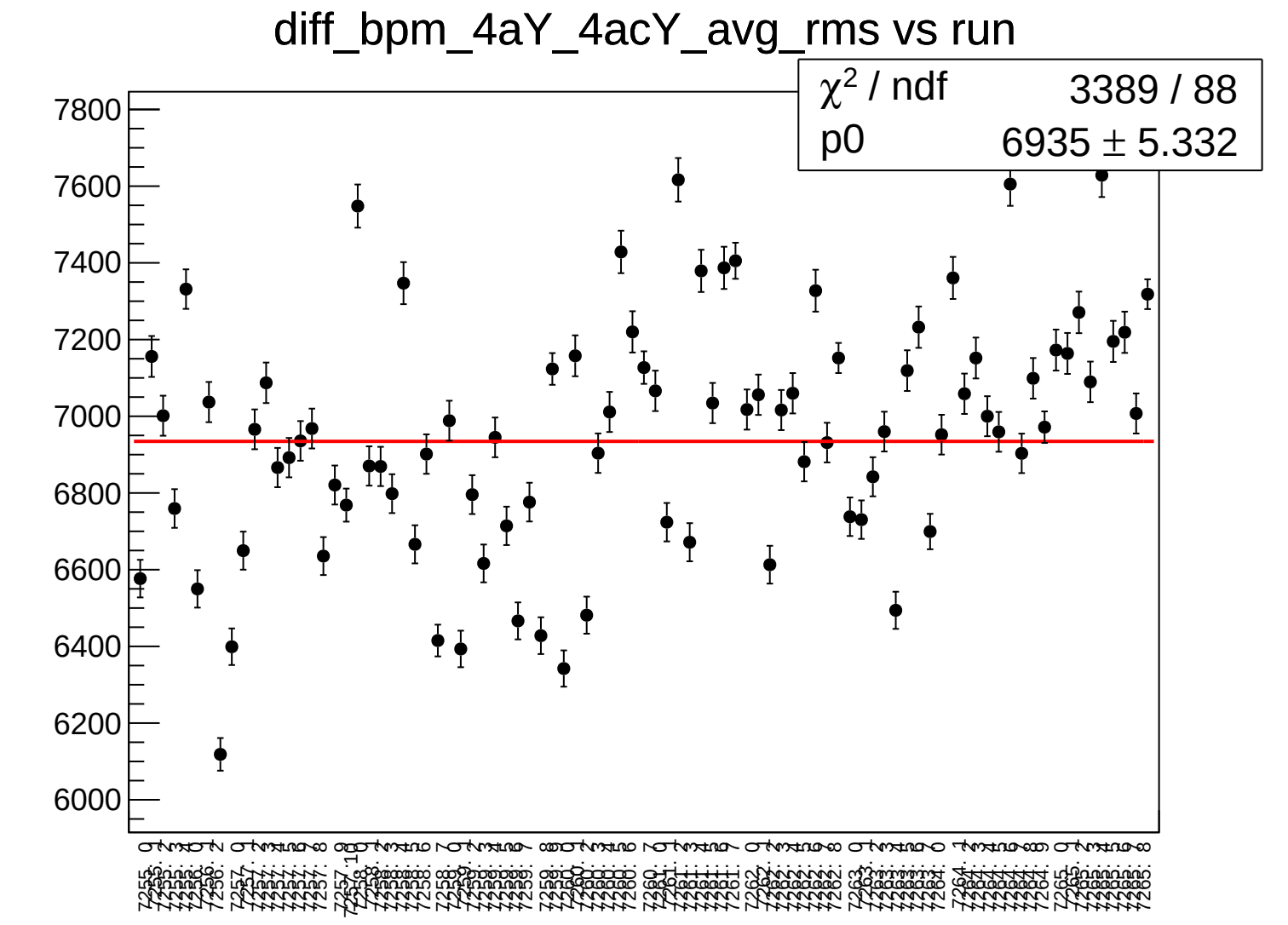

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 110.5 / 88
p0 0.4606 ± 0.3739
pull
Entries 89
Mean 203.7
Std Dev 0

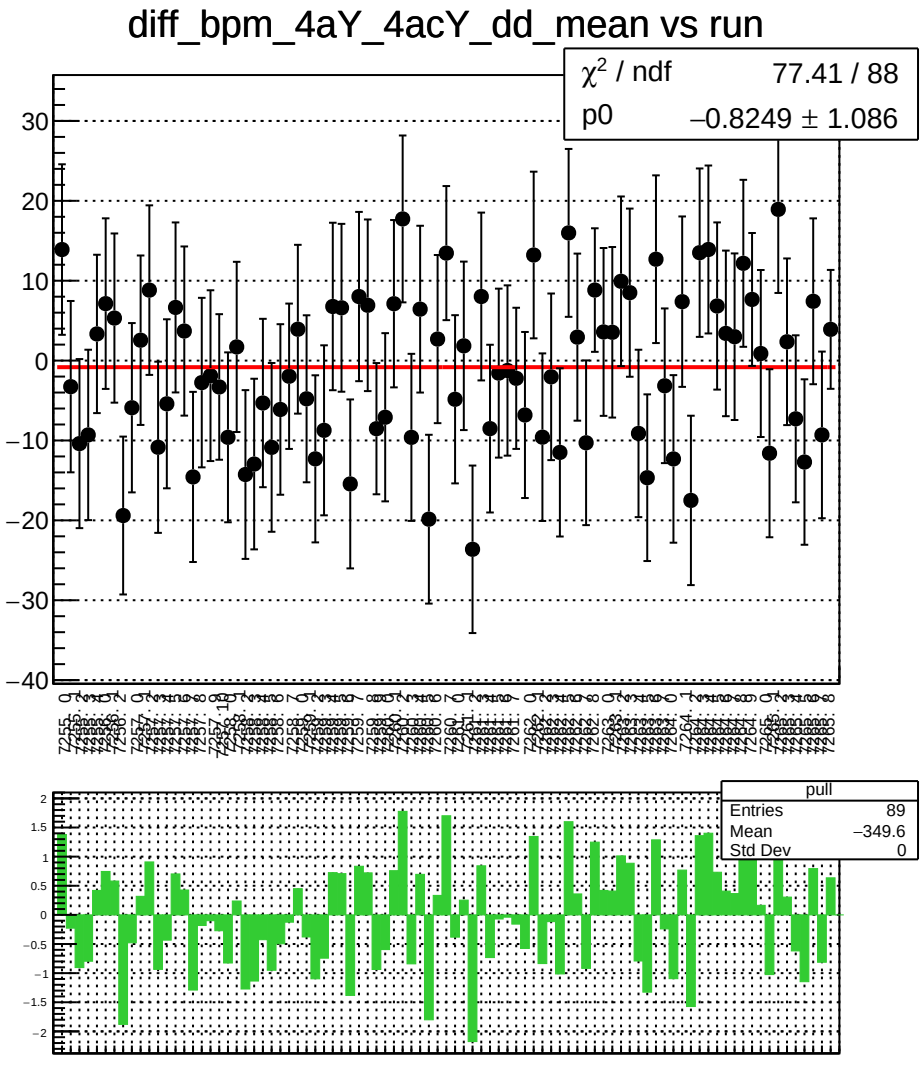

pull1D
Entries 89
Mean −0.01318
Std Dev 1.114

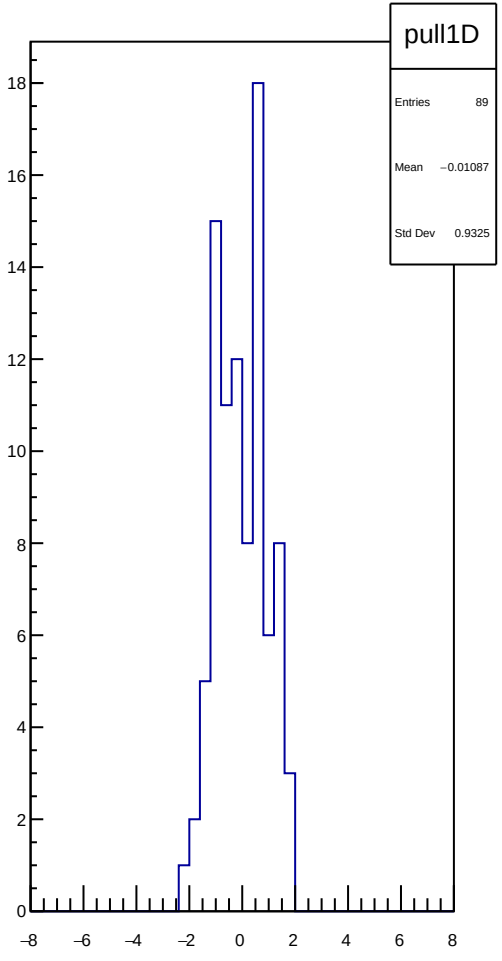

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 4.002e+04 / 88
p0 340.2 ± 0.2644
600
550
500
450
400
350
300

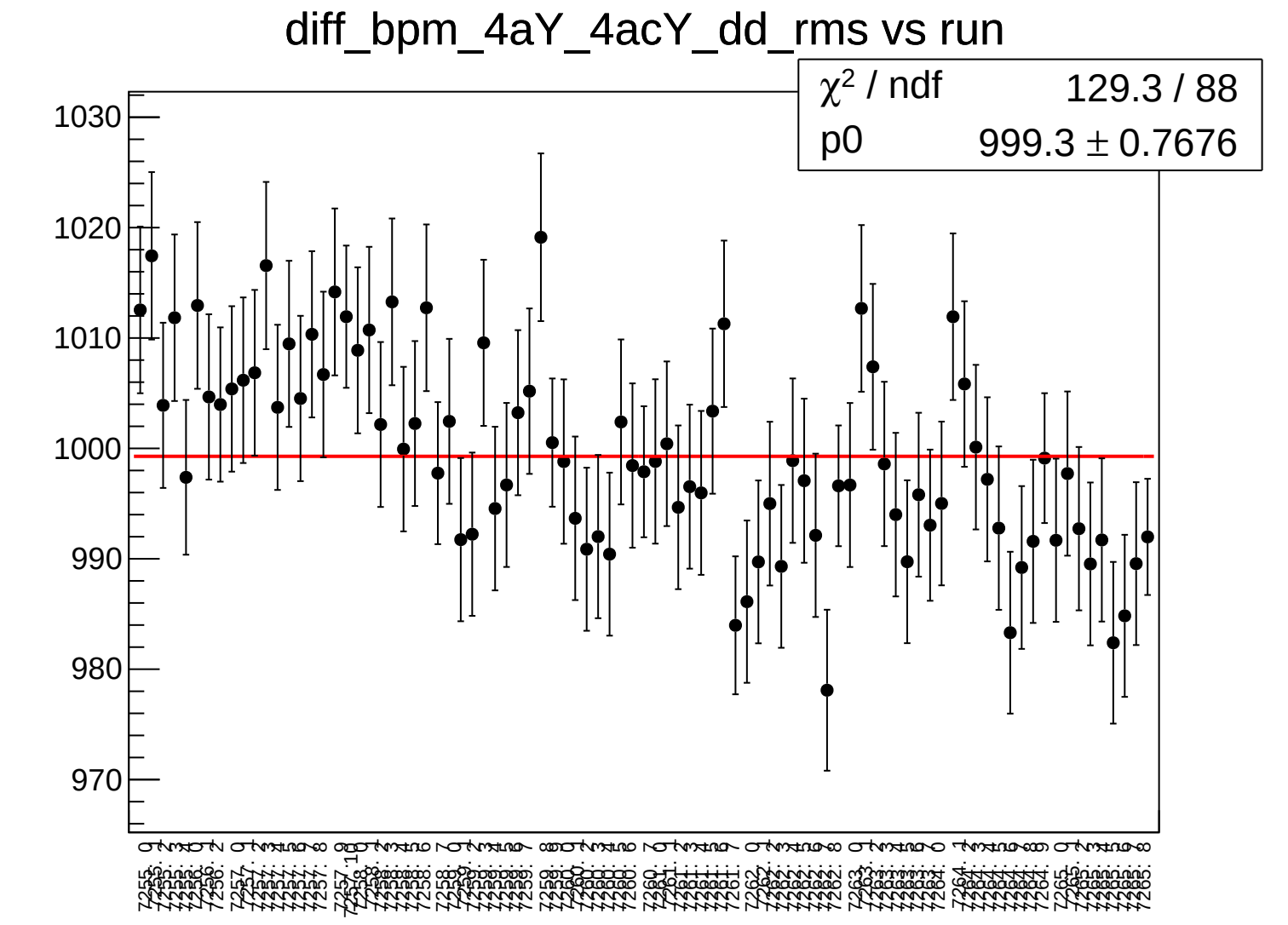

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 106.6 / 88
p0 2.065 ± 7.54
pull
Entries 89
Mean 49.71
Std Dev 27.63

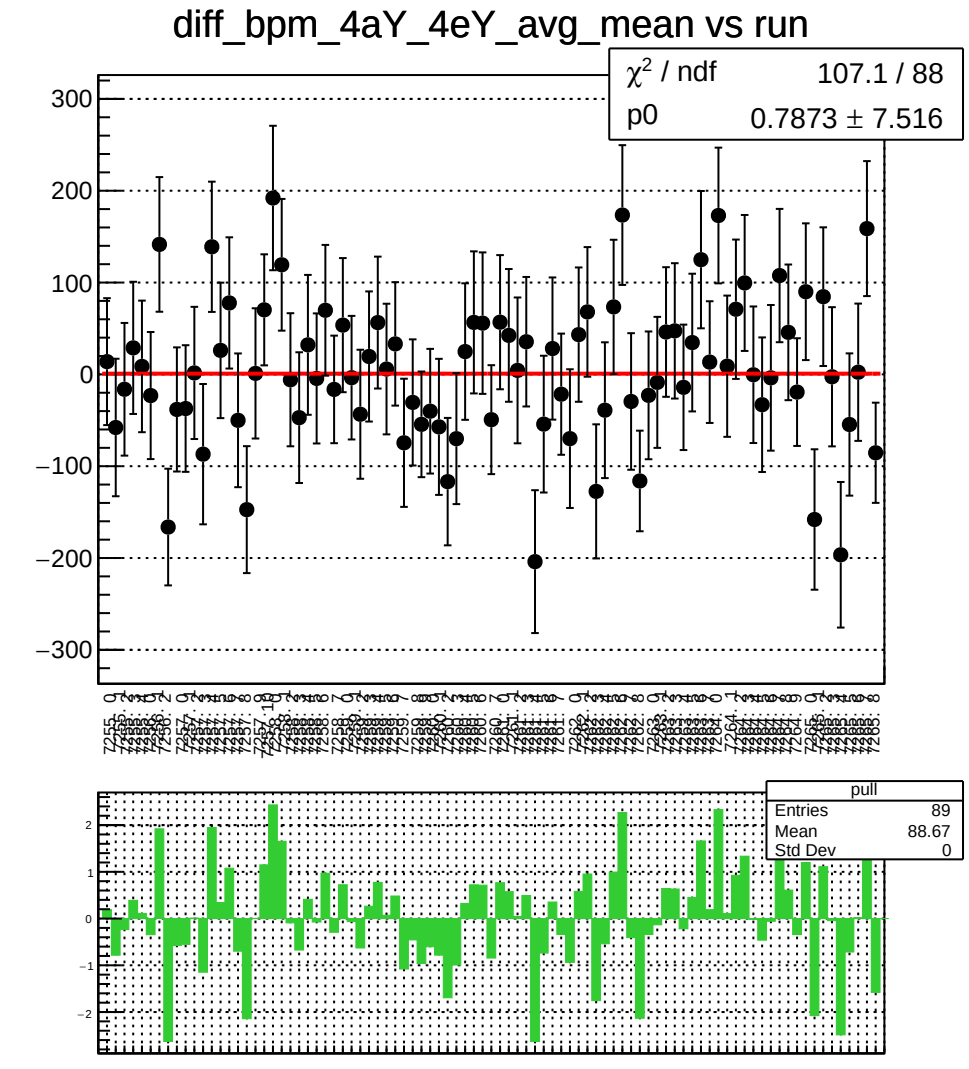

pull1D
Entries 89
Mean 0.03003
Std Dev 1.094

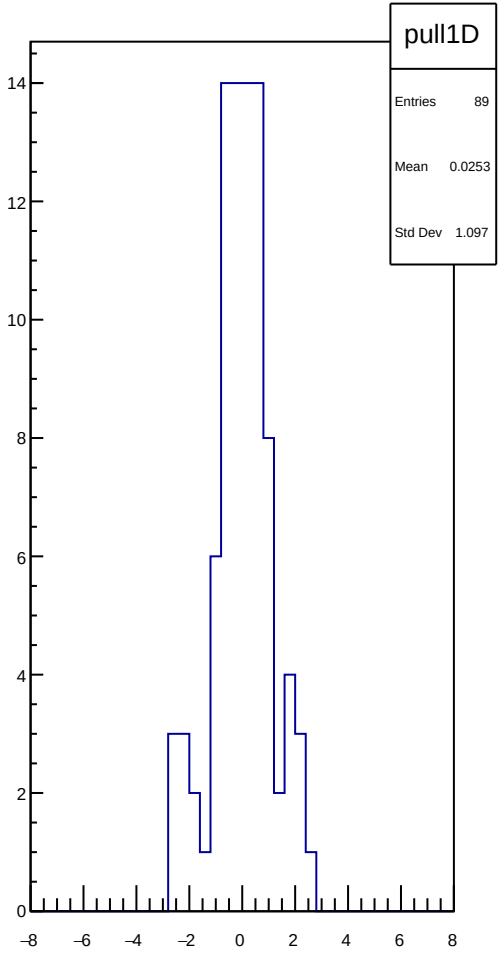

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 3389 / 88
p0 6935 ± 5.332
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

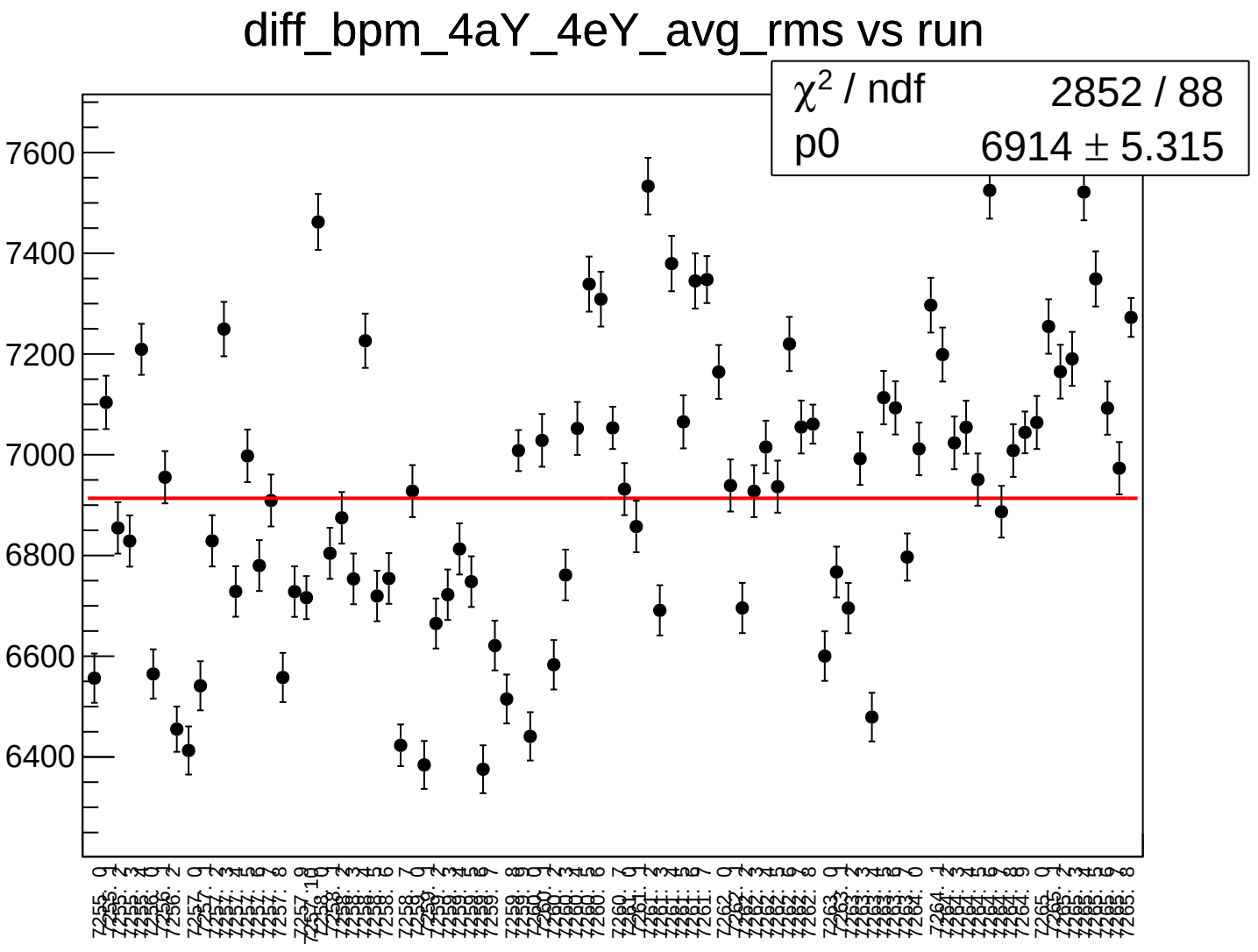

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 77.41 / 88
p0 −0.8249 ± 1.086
pull
Entries 89
Mean −349.6
Std Dev 0

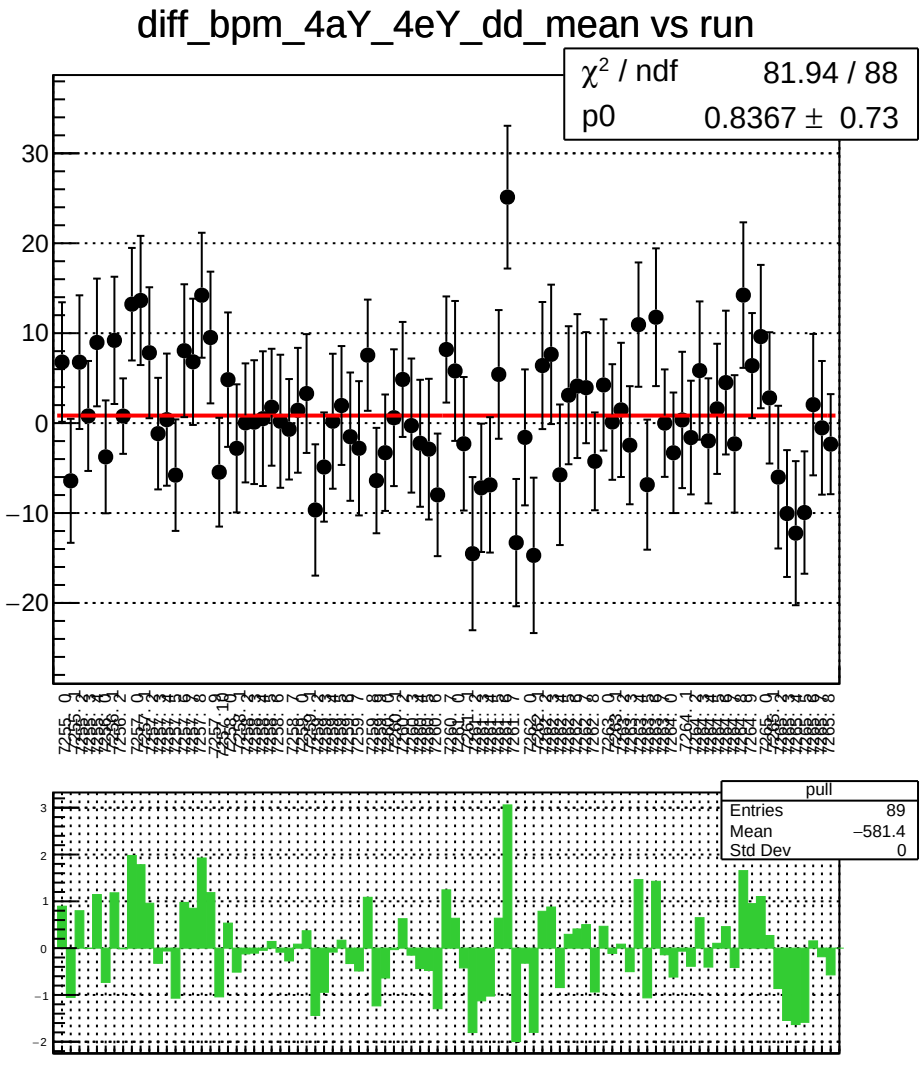

pull1D
Entries 89
Mean −0.01087
Std Dev 0.9325

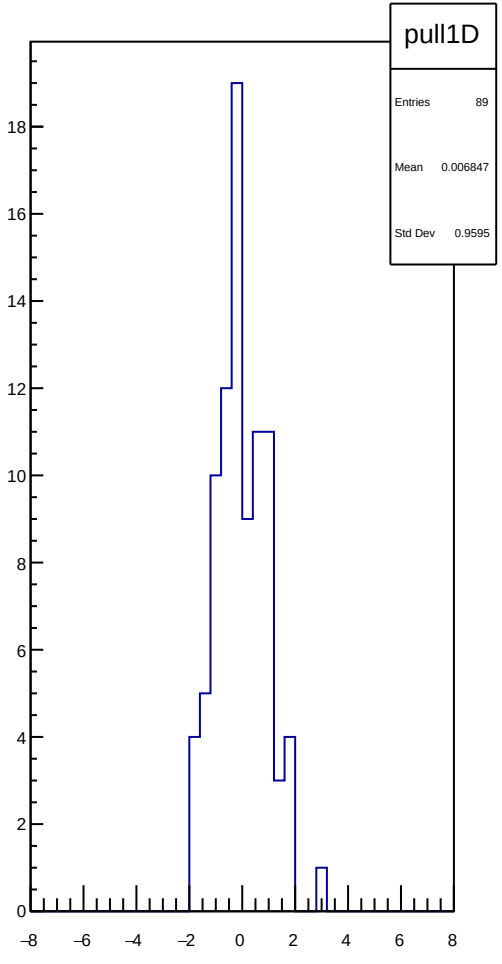

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 129.3 / 88
p0 999.3 ± 0.7676
1030
1020
1010
1000
990
980
970

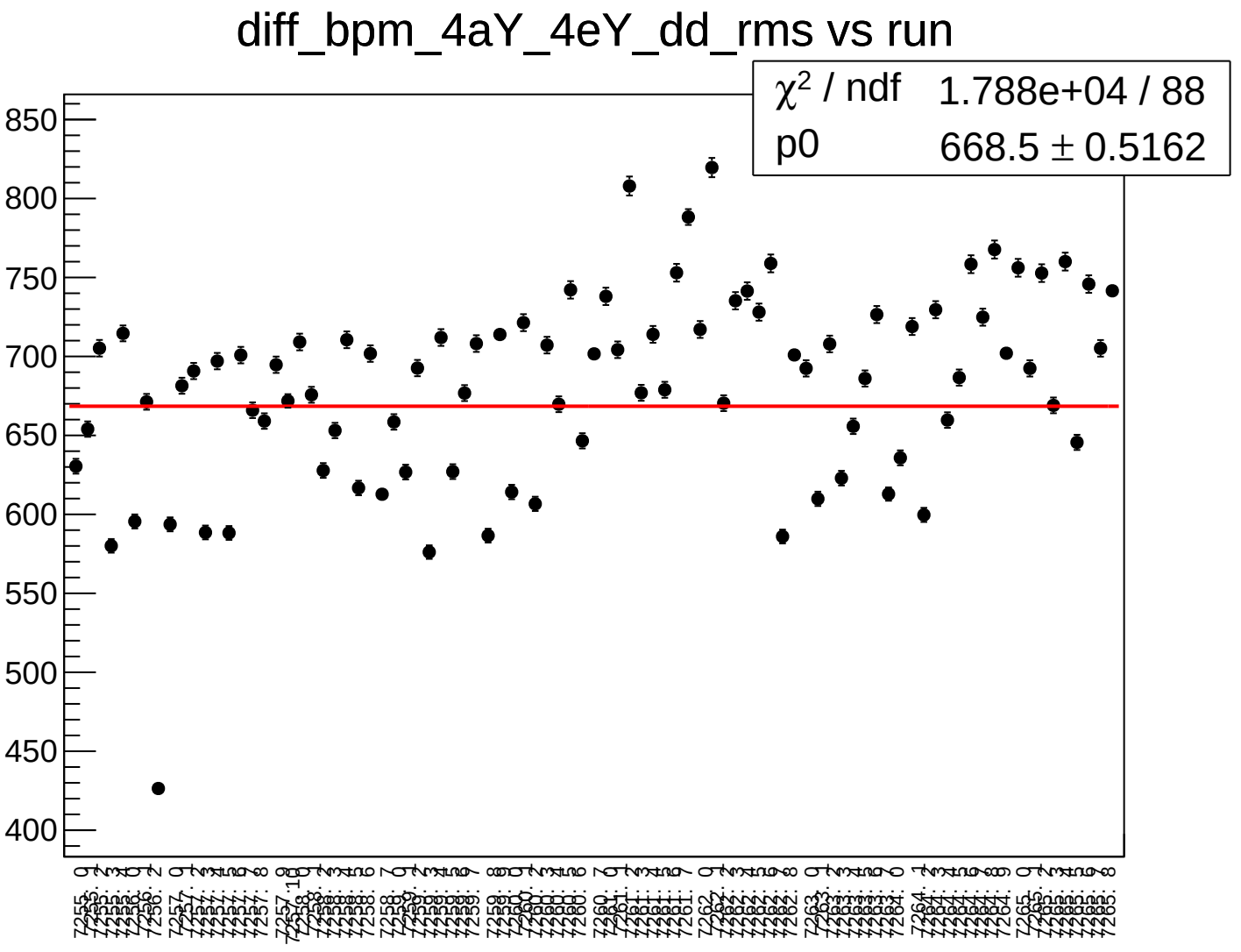

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 107.1 / 88
p0 0.7873 ± 7.516
pull
Entries 89
Mean 88.67
Std Dev 0

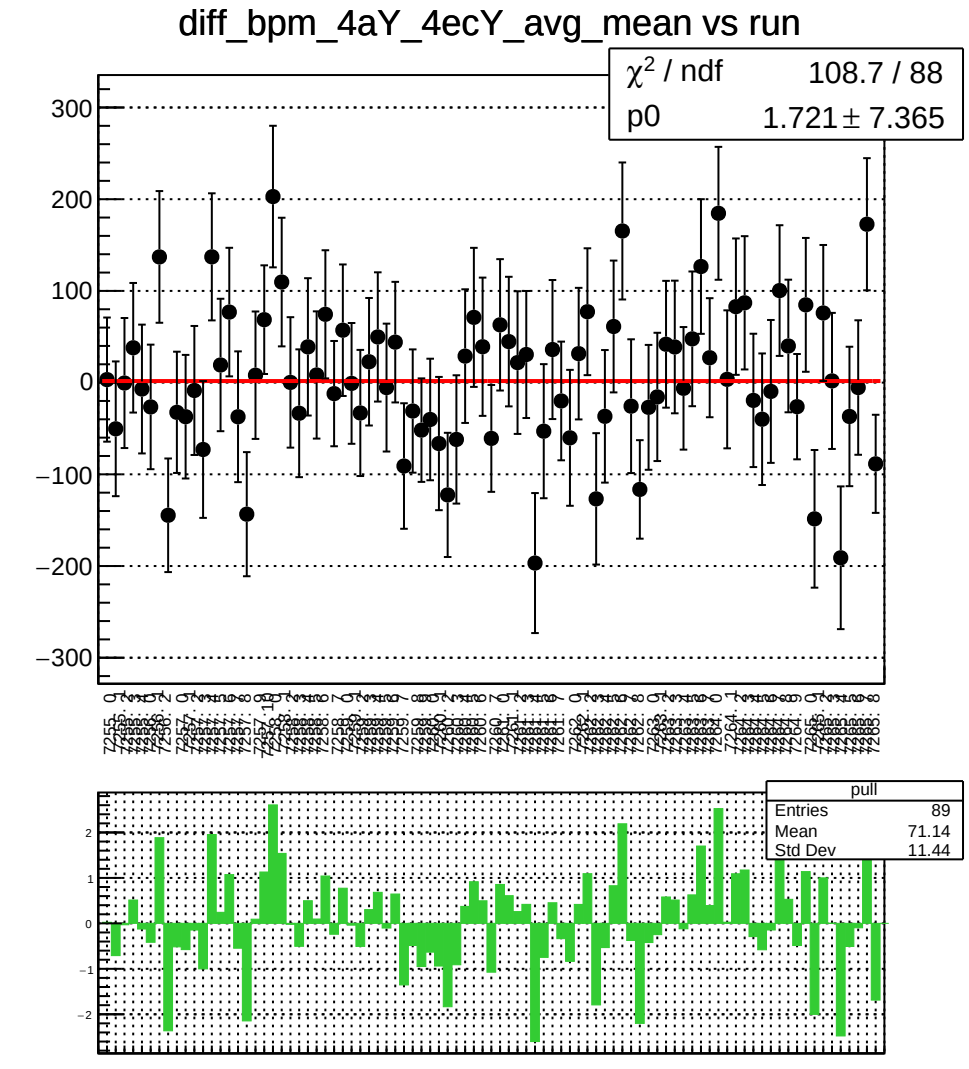

pull1D
Entries 89
Mean 0.0253
Std Dev 1.097

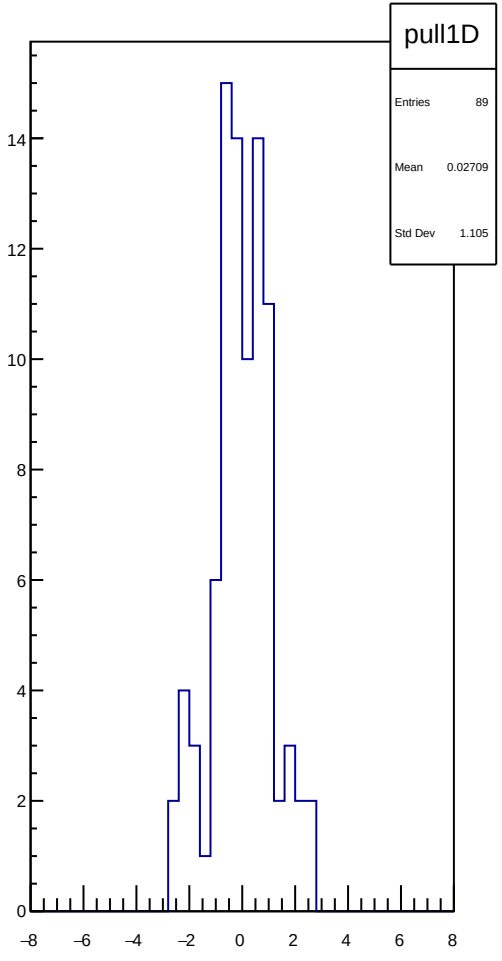

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 2852 / 88
p0 6914 ± 5.315
7600
7400
7200
7000
6800
6600
6400

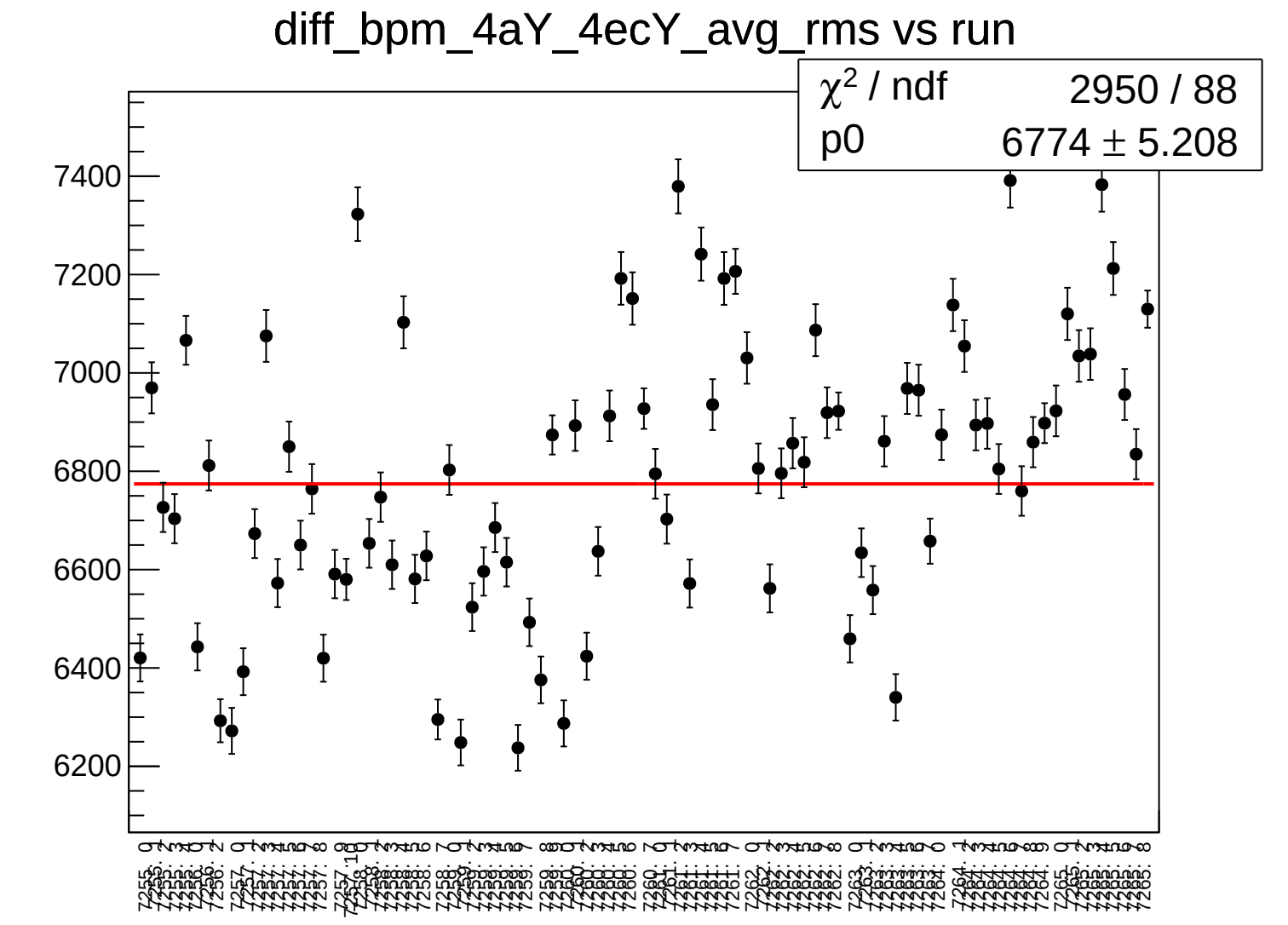

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 81.94 / 88
p0 0.8367 ± 0.73
pull
Entries 89
Mean −581.4
Std Dev 0

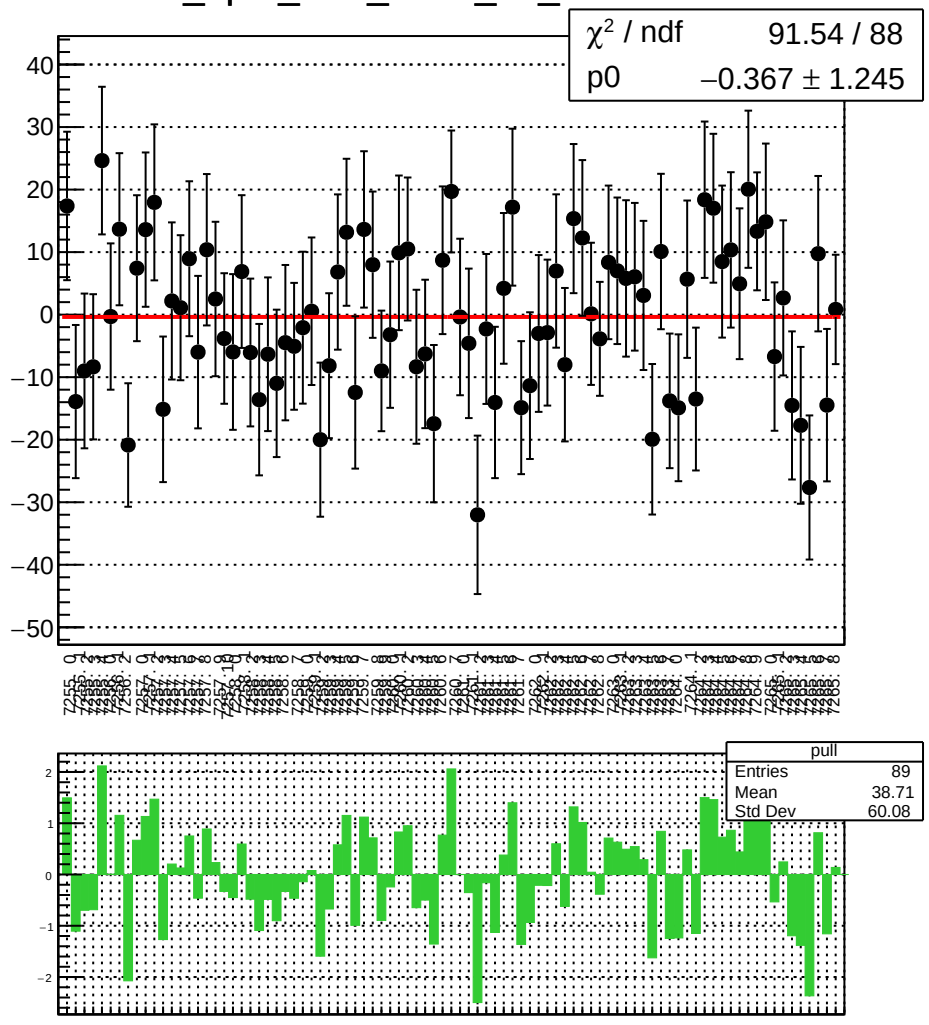

pull1D
Entries 89
Mean 0.006847
Std Dev 0.9595

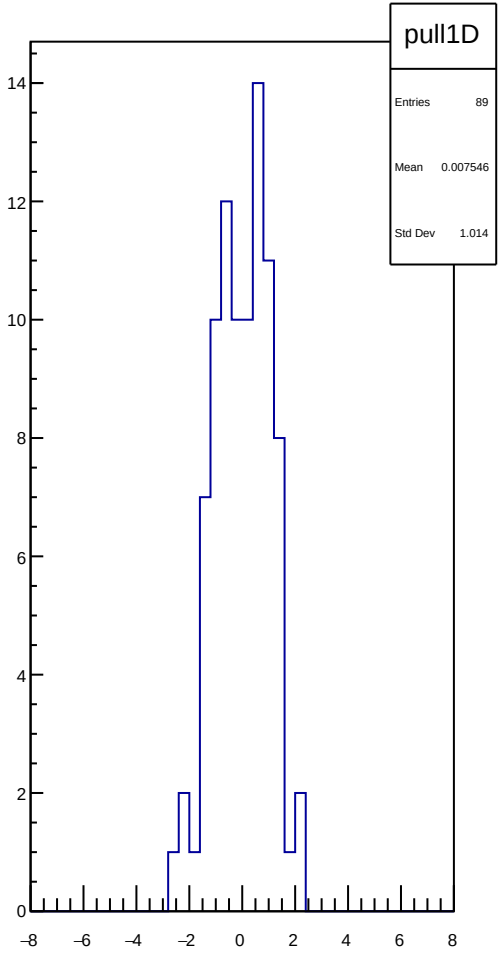

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.788e+04 / 88
p0 668.5 ± 0.5162
850
800
750
700
650
600
550
500
450
400

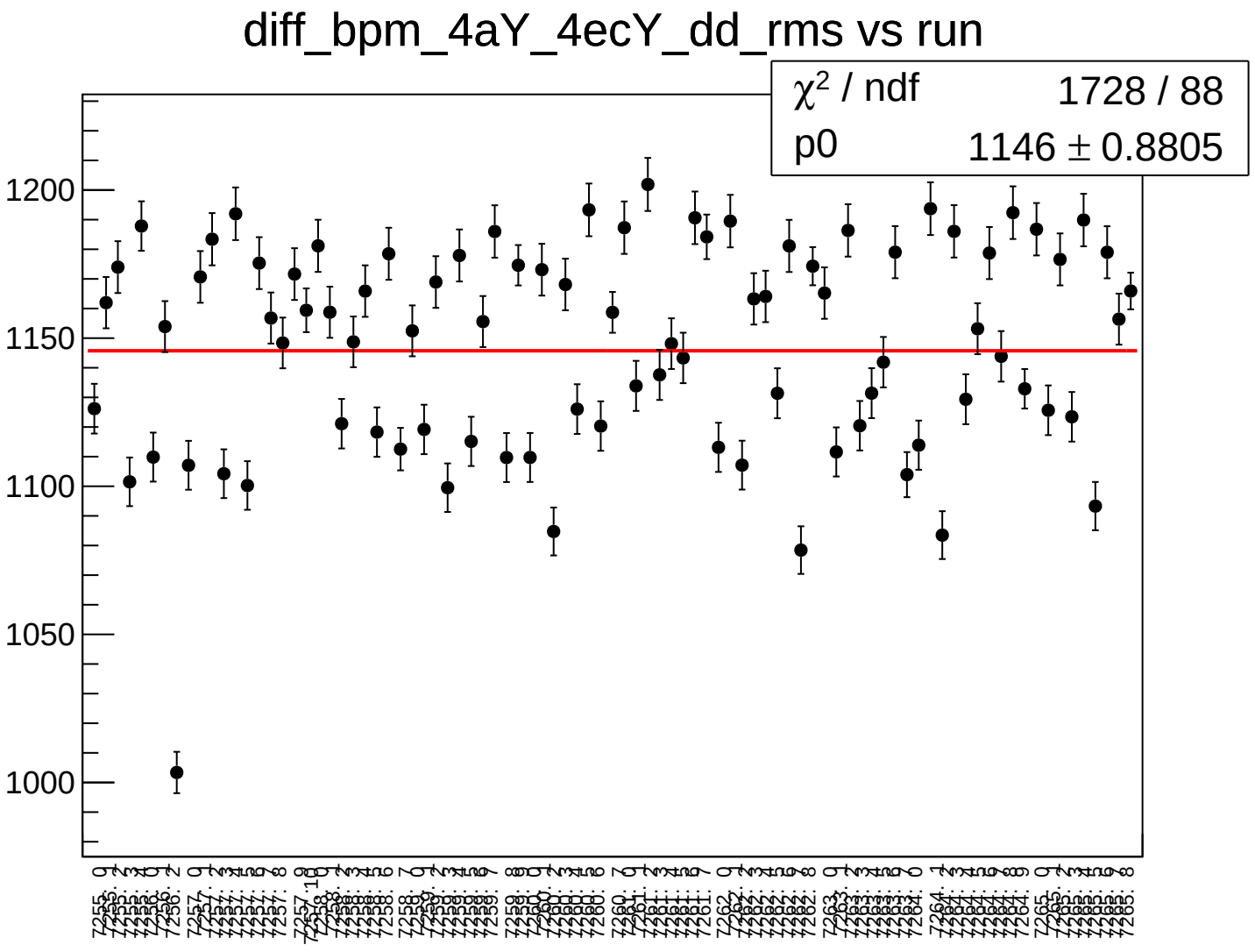

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 108.7 / 88
p0 1.721 ± 7.365
pull
Entries 89
Mean 71.14
Std Dev 11.44

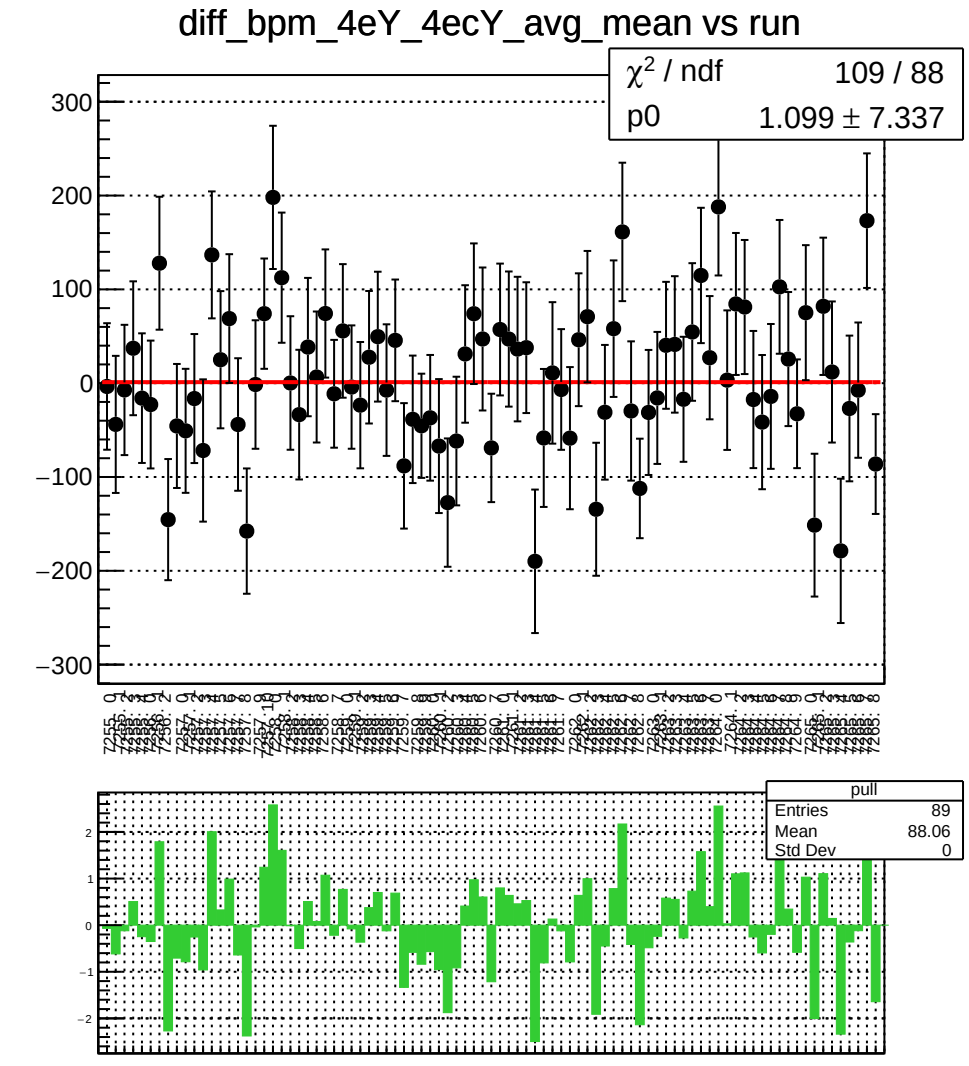

pull1D
Entries 89
Mean 0.02709
Std Dev 1.105

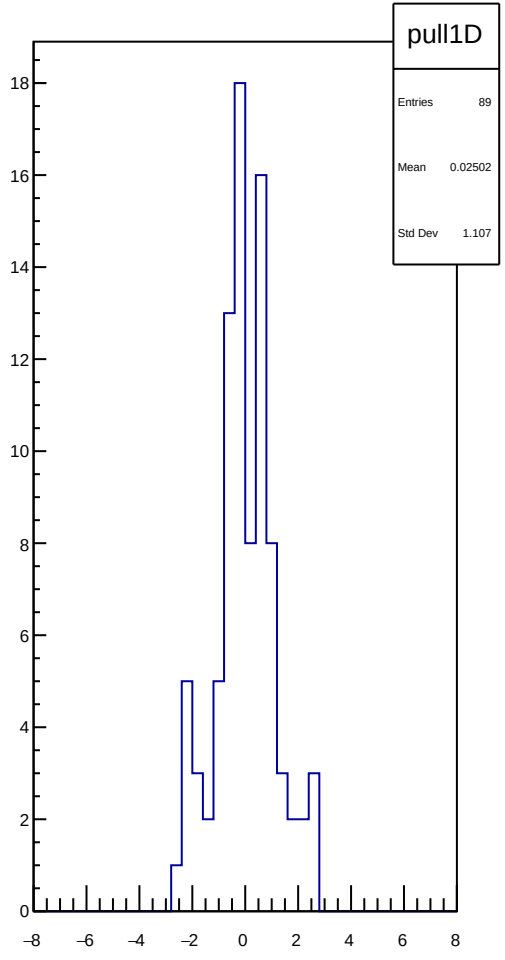

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 2950 / 88
p0 6774 ± 5.208
7400
7200
7000
6800
6600
6400
6200

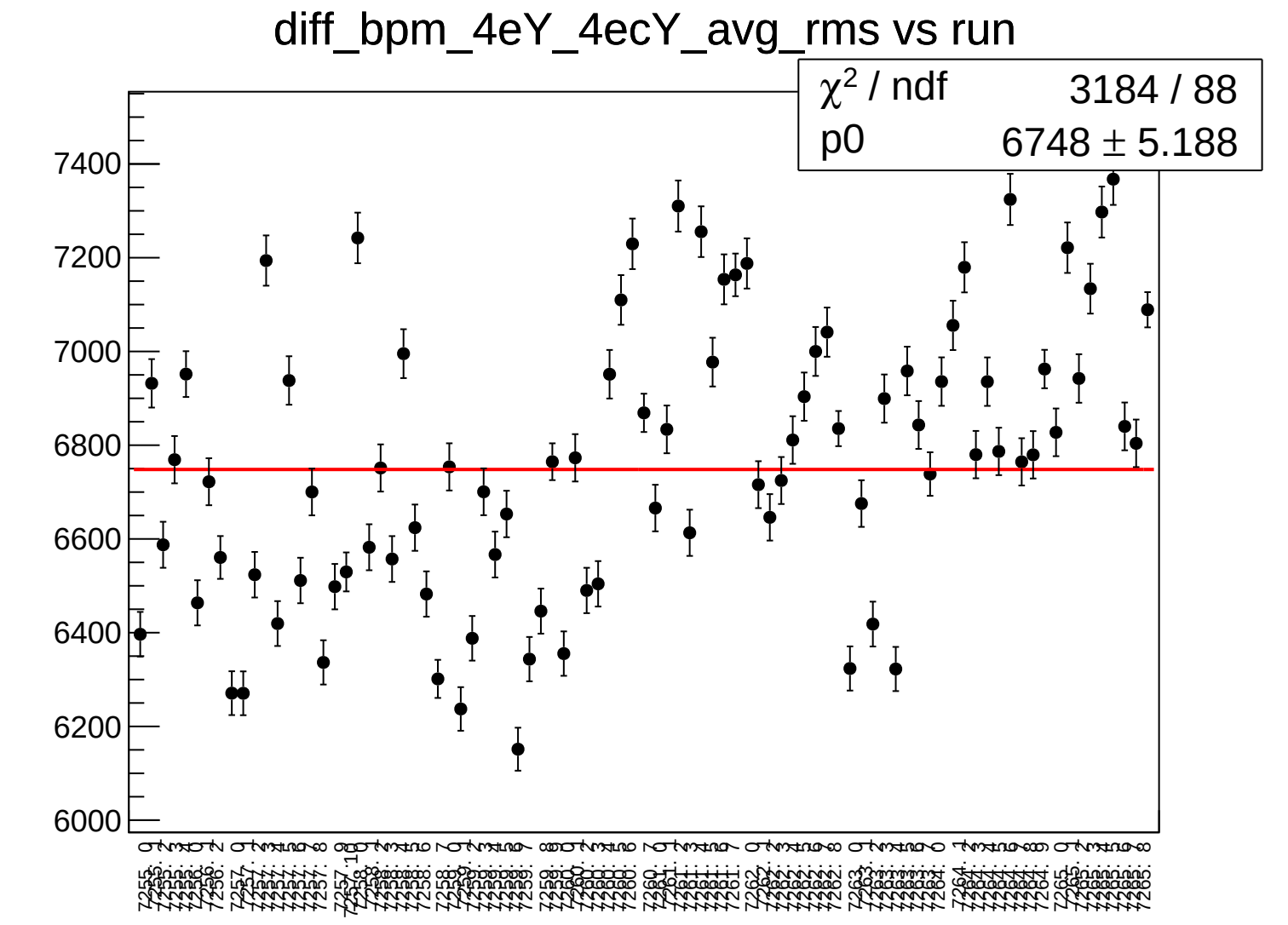

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 91.54 / 88
p0 −0.367 ± 1.245
pull
Entries 89
Mean 38.71
Std Dev 60.08

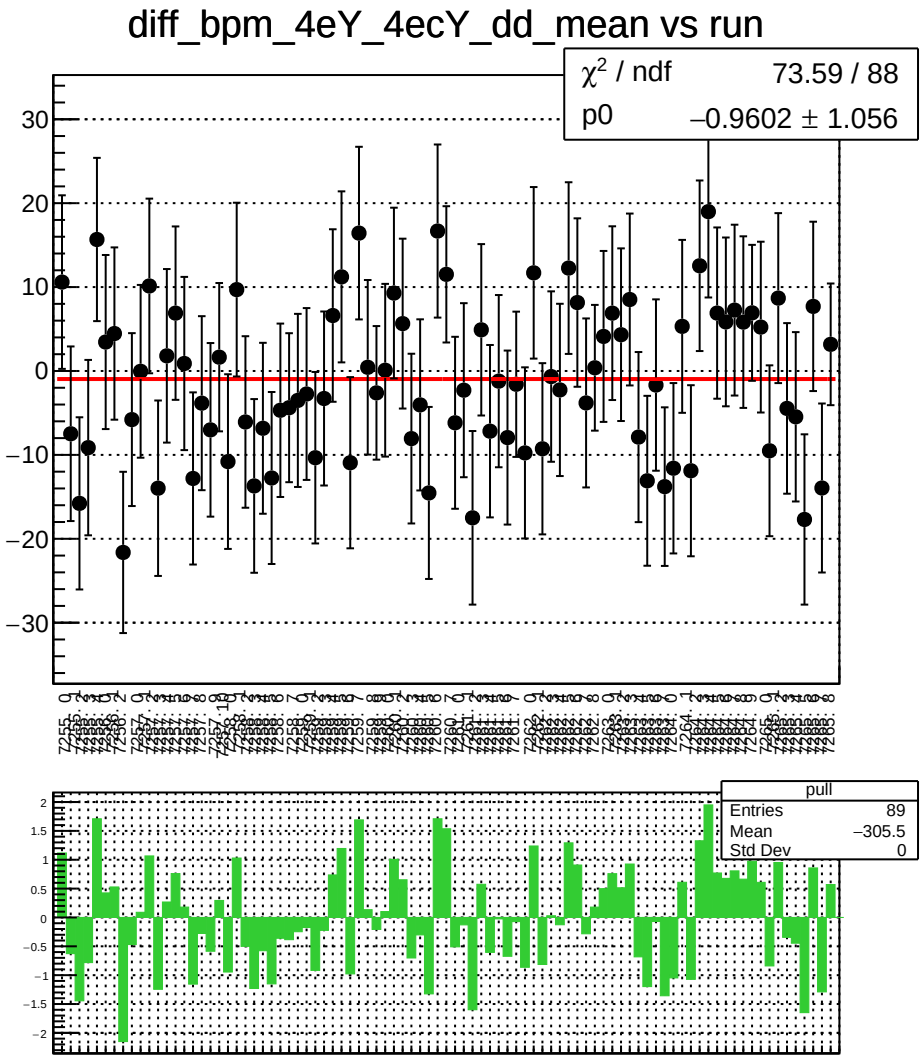

pull1D
Entries 89
Mean 0.007546
Std Dev 1.014

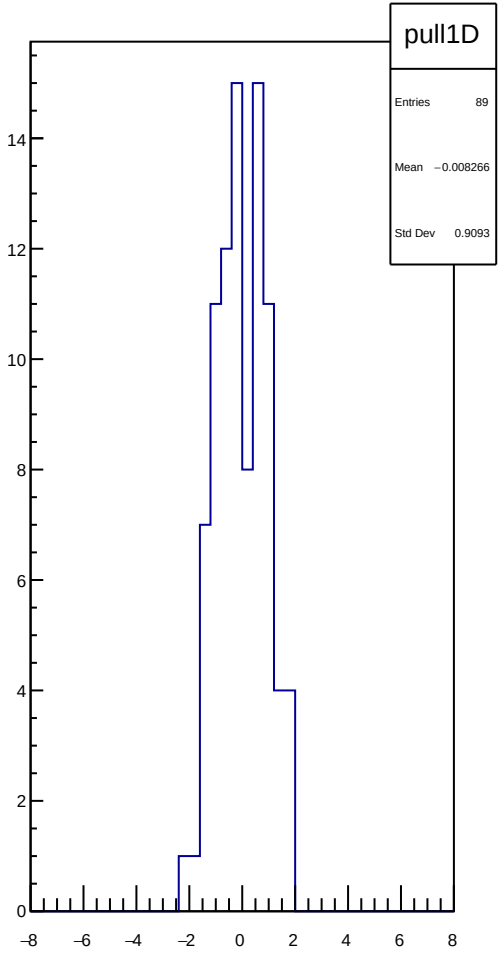

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1728 / 88
p0 1146 ± 0.8805
1200
1150
1100
1050
1000

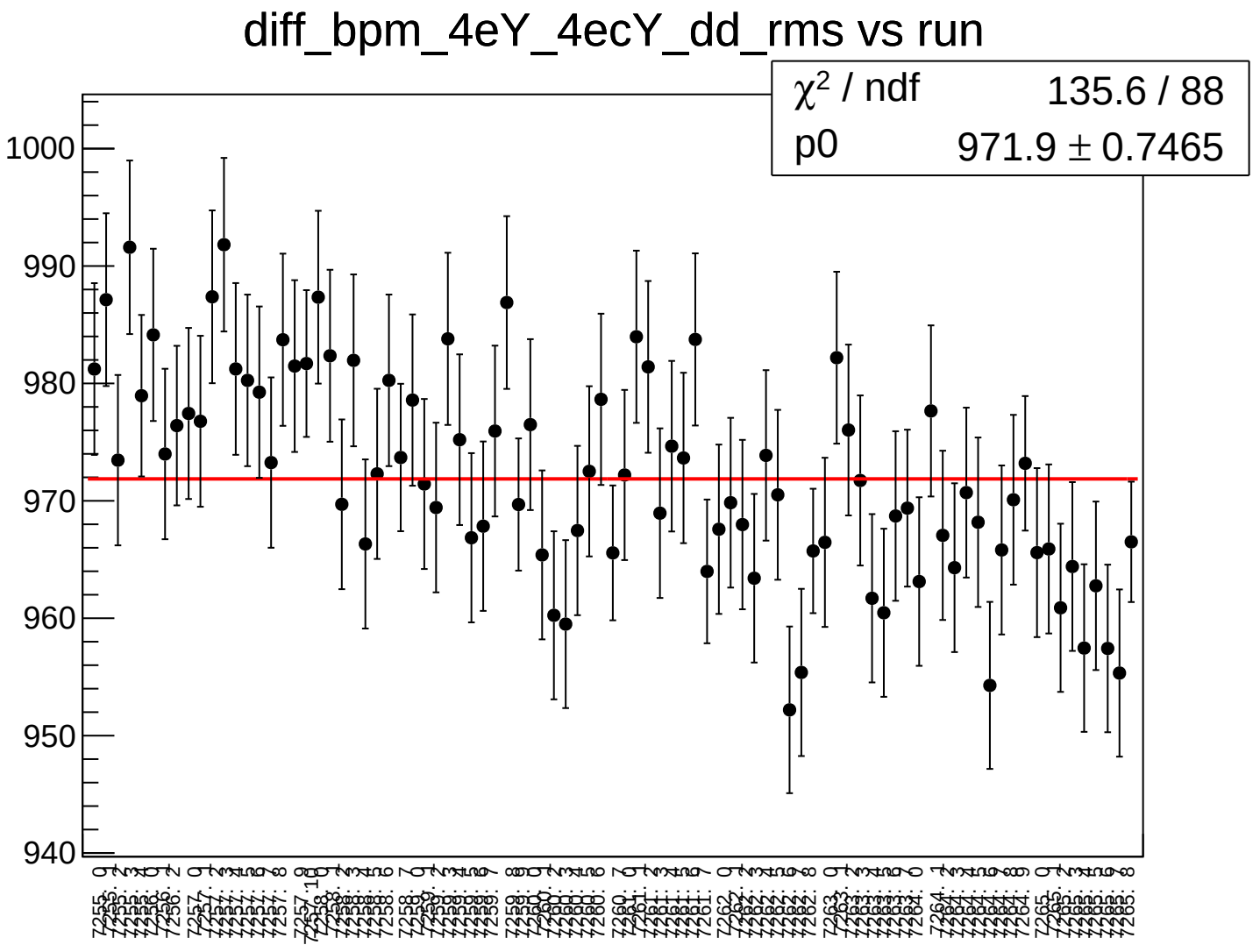

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 109 / 88
p0 1.099 ± 7.337
pull
Entries 89
Mean 88.06
Std Dev 0

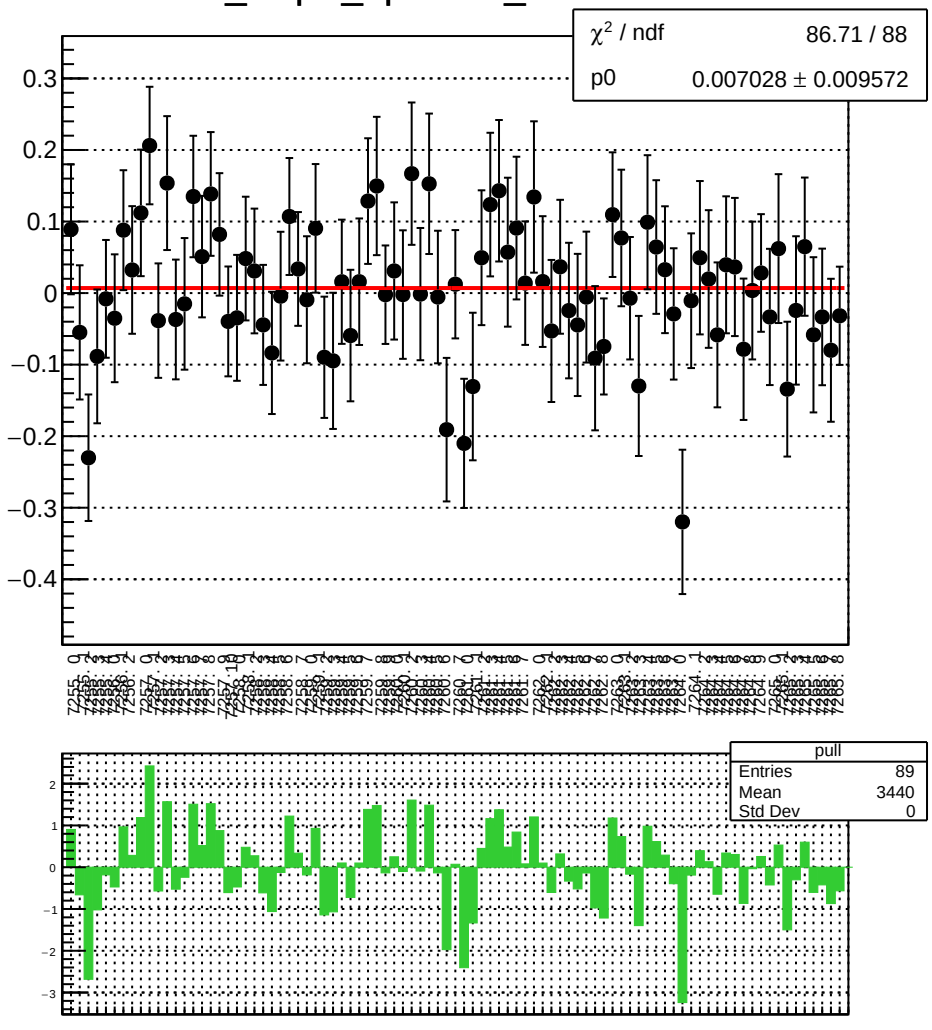

pull1D
Entries 89
Mean 0.02502
Std Dev 1.107

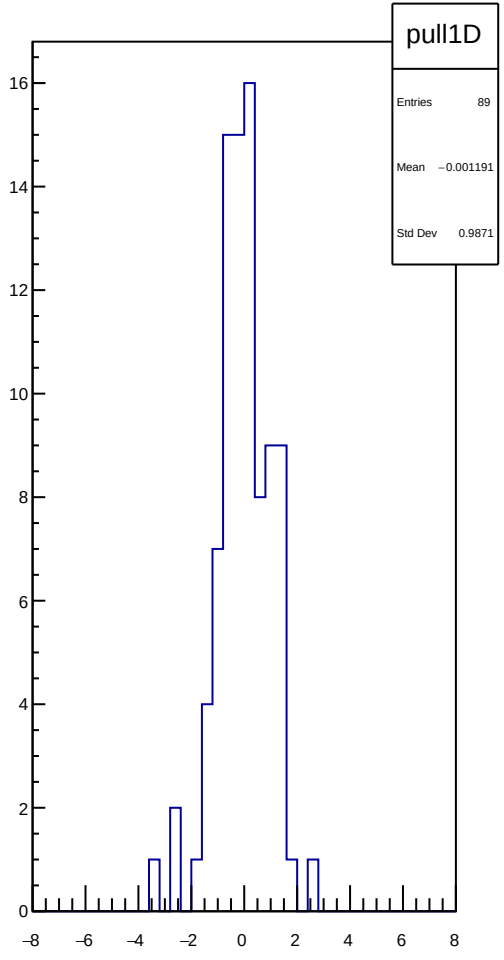

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 3184 / 88
p0 6748 ± 5.188
7400
7200
7000
6800
6600
6400
6200
6000

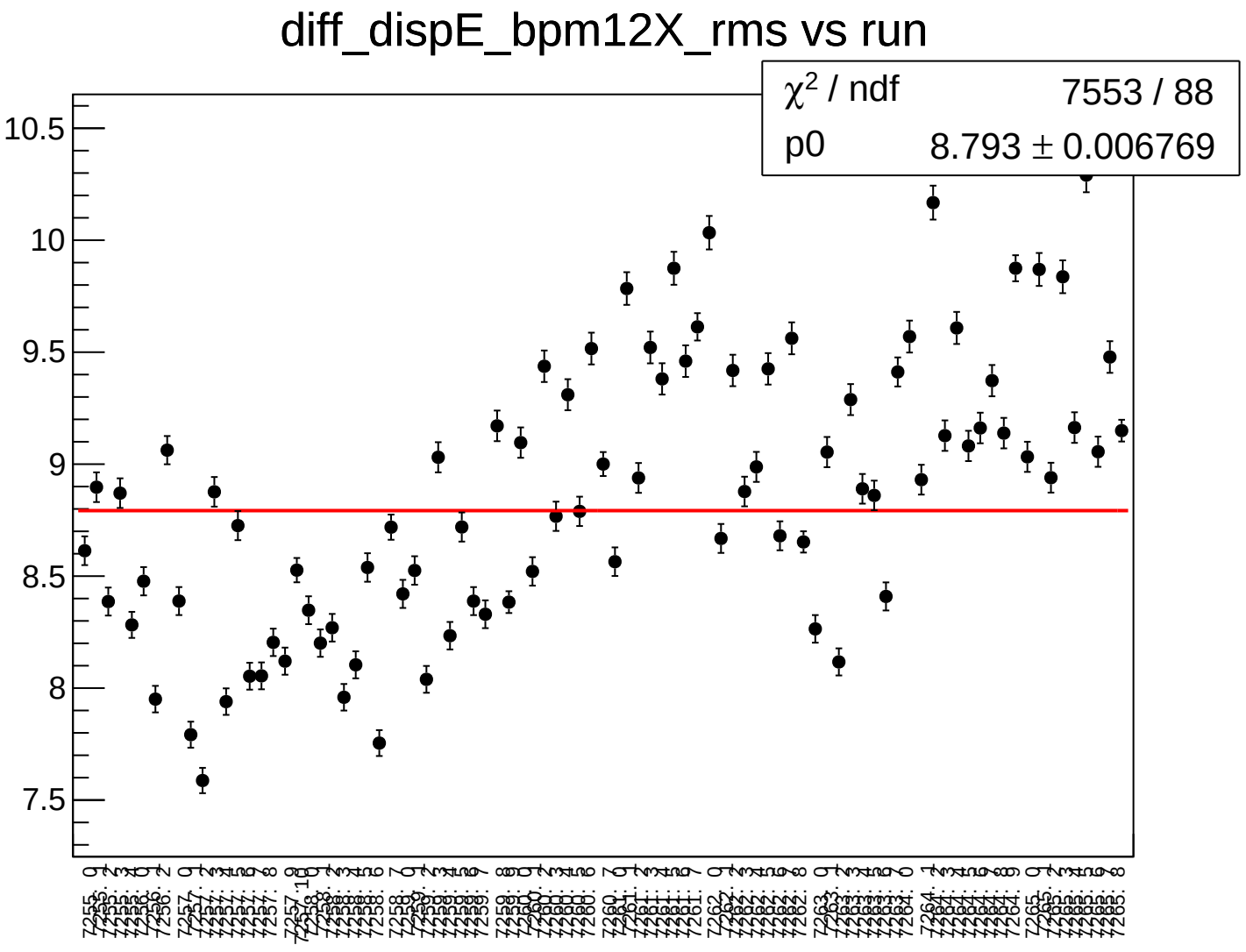

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 73.59 / 88
p0 −0.9602 ± 1.056
pull
Entries 89
Mean −305.5
Std Dev 0

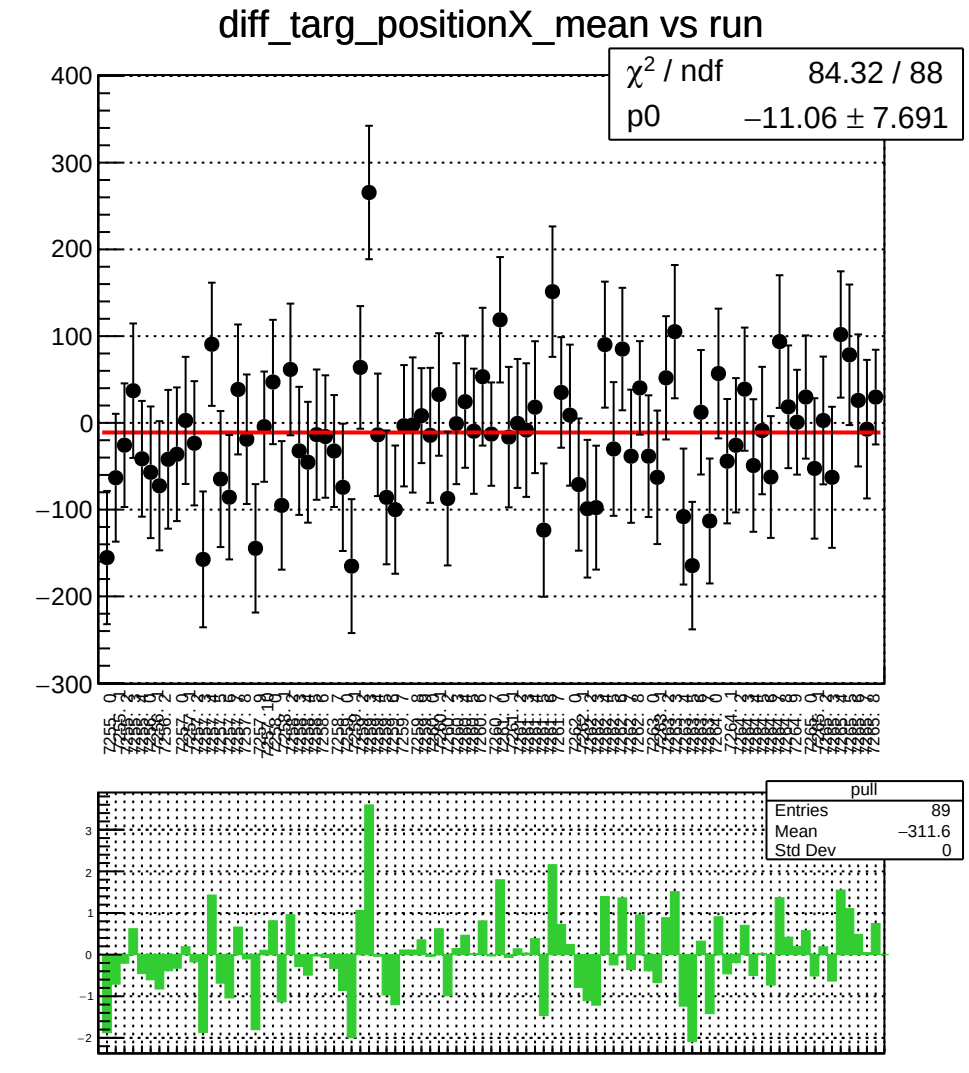

pull1D
Entries 89
Mean −0.008266
Std Dev 0.9093

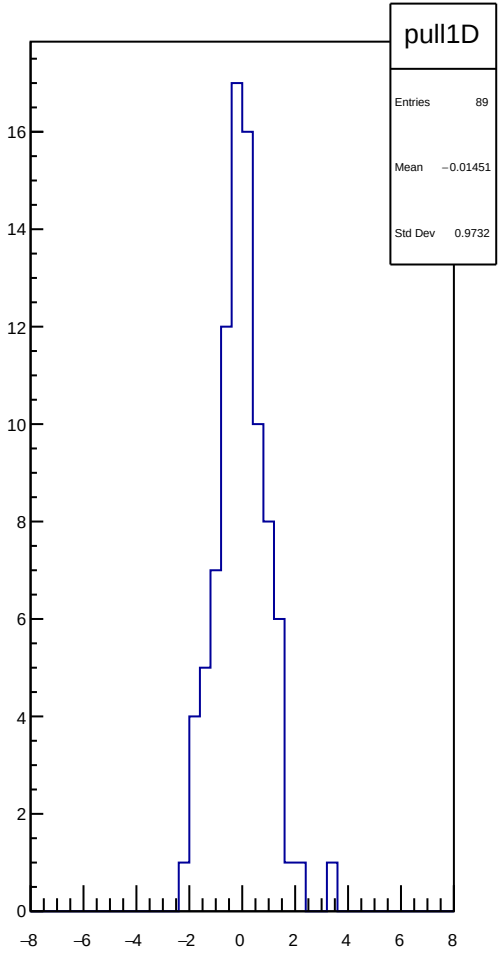

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 135.6 / 88
p0 971.9 ± 0.7465
1000
990
980
970
960
950
940

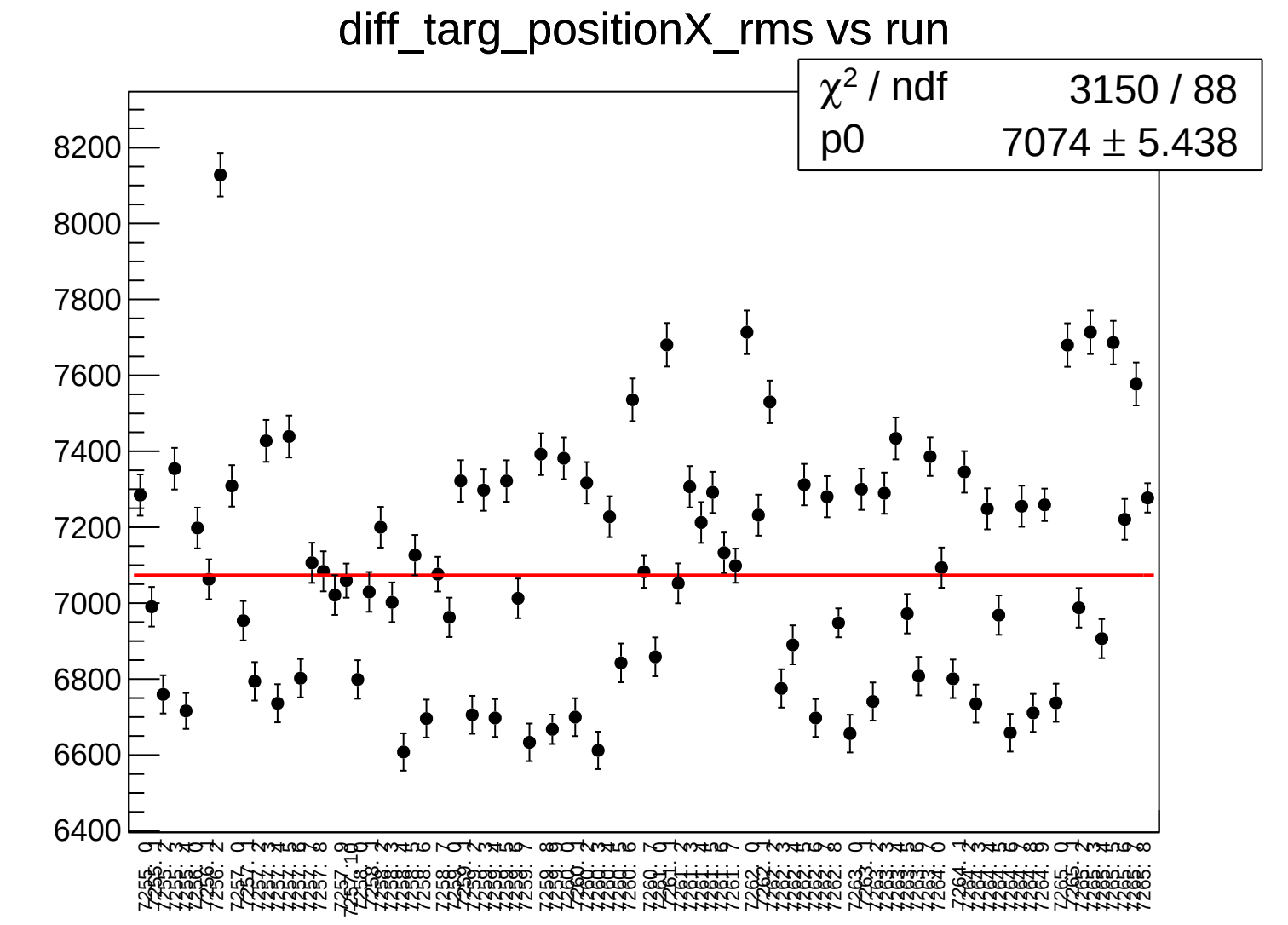

diff_dispE_bpm12X_mean vs run
χ² / ndf 86.71 / 88
p0 0.007028 ± 0.009572
pull
Entries 89
Mean 3440
Std Dev 0

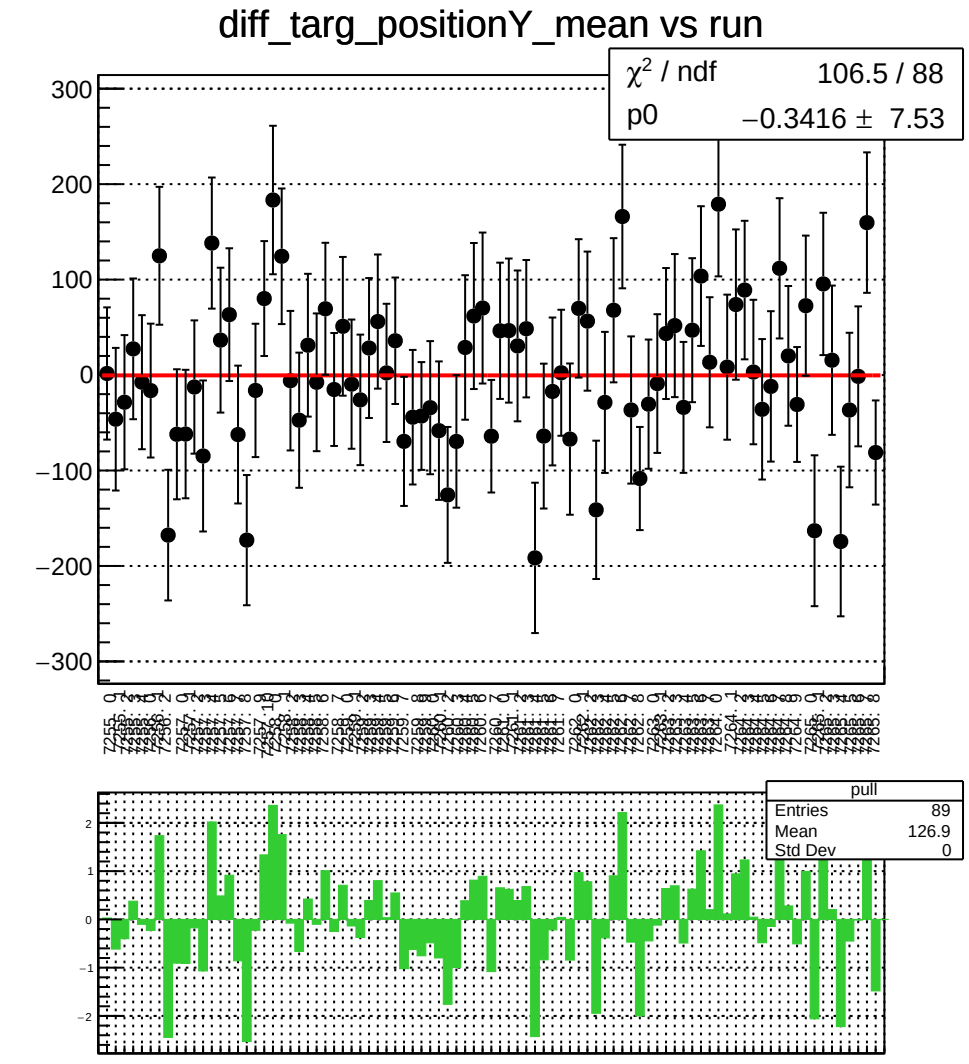

pull1D
Entries 89
Mean −0.001191
Std Dev 0.9871

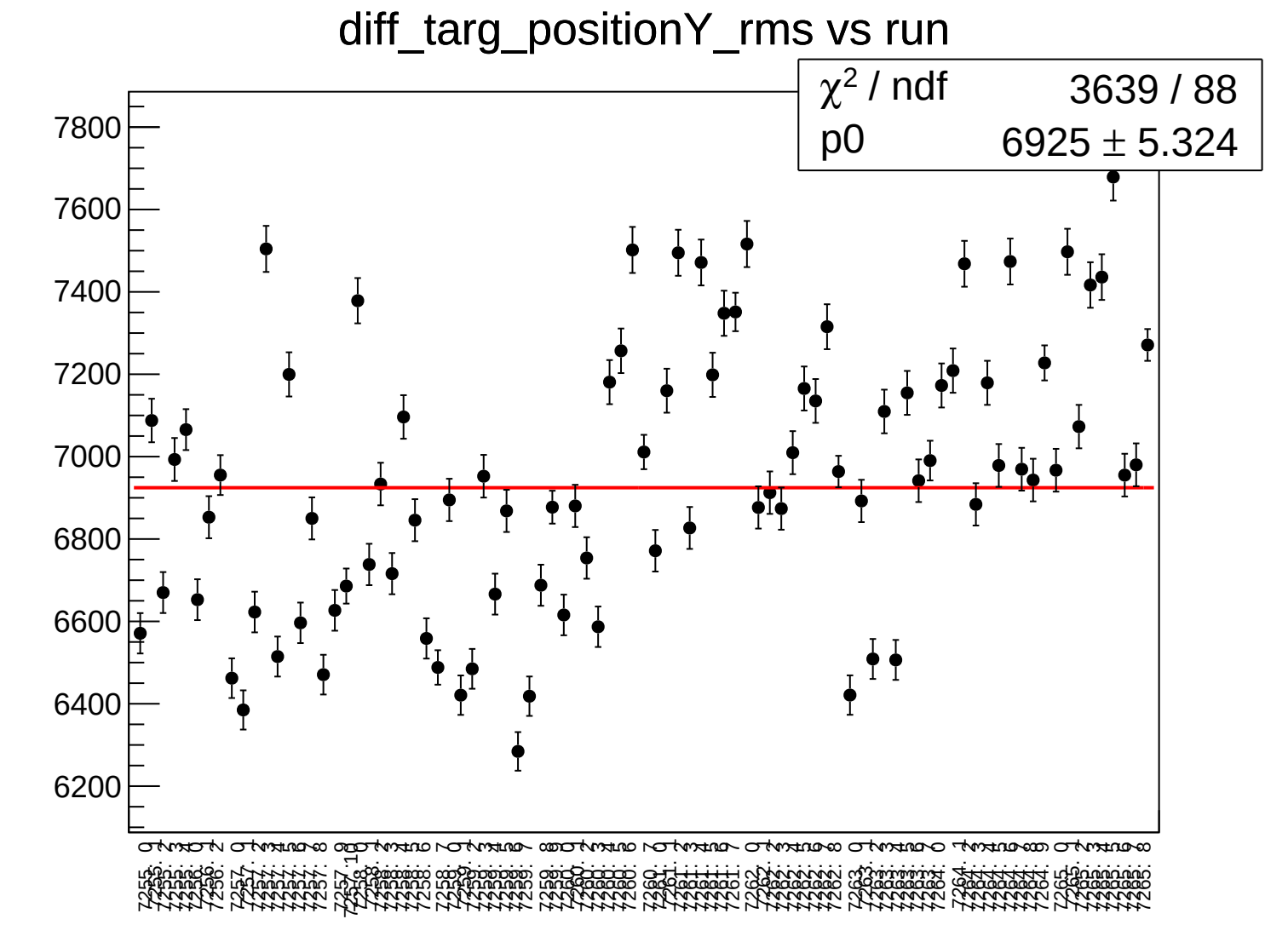

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 7553 / 88
p0 8.793 ± 0.006769
10.5
10
9.5
9
8.5
8
7.5

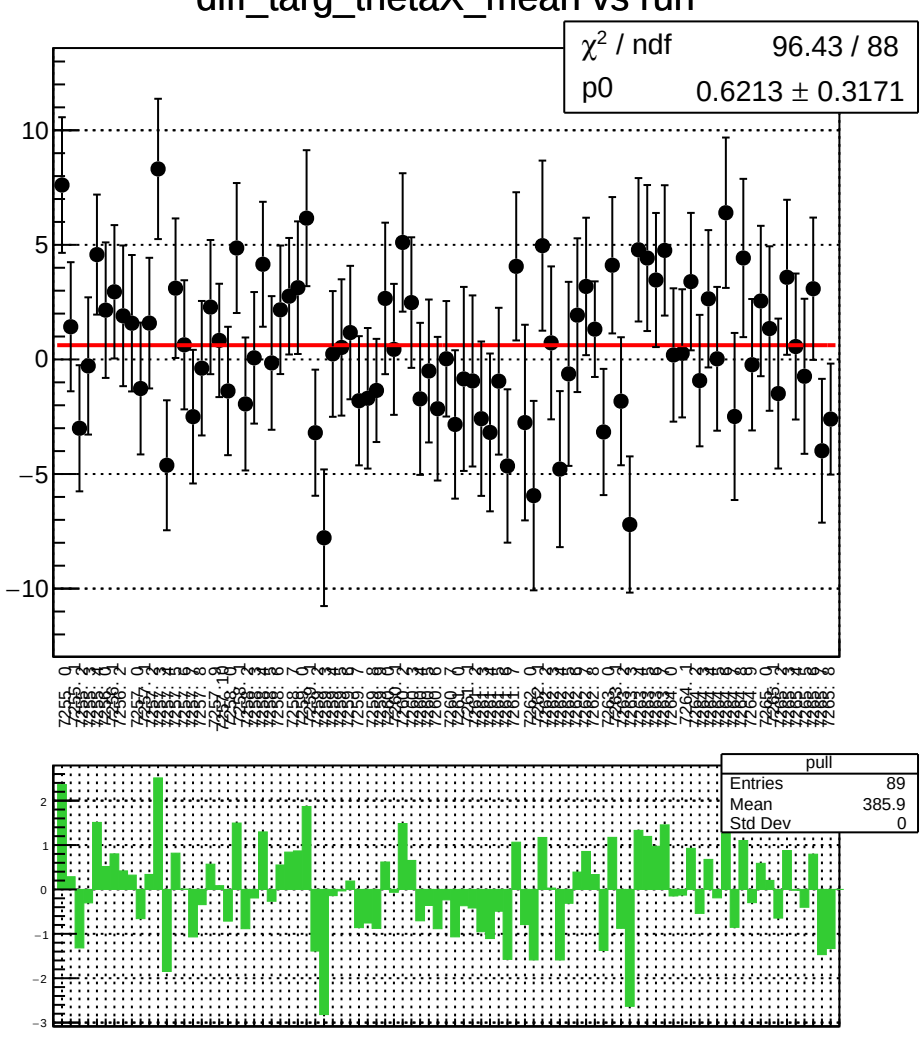

diff_targ_positionX_mean vs run
χ² / ndf 84.32 / 88
p0 −11.06 ± 7.691
pull
Entries 89
Mean −311.6
Std Dev 0

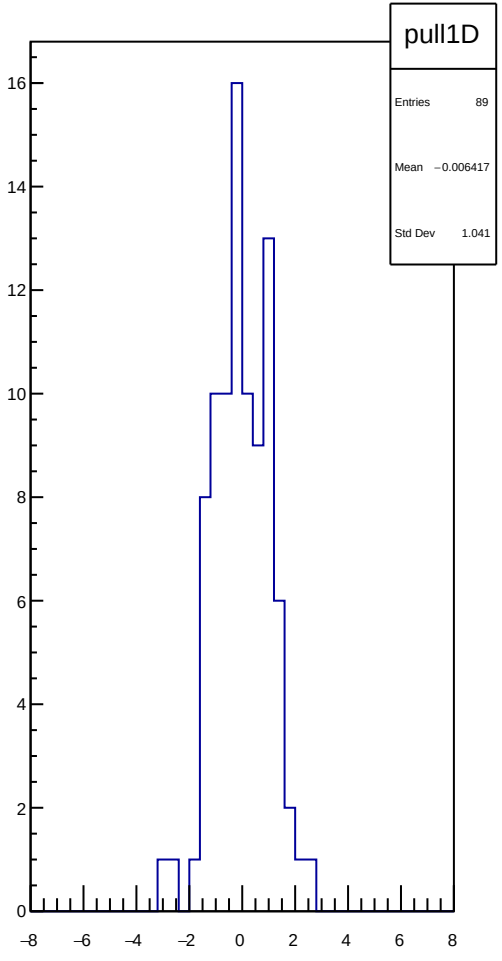

pull1D
Entries 89
Mean −0.01451
Std Dev 0.9732

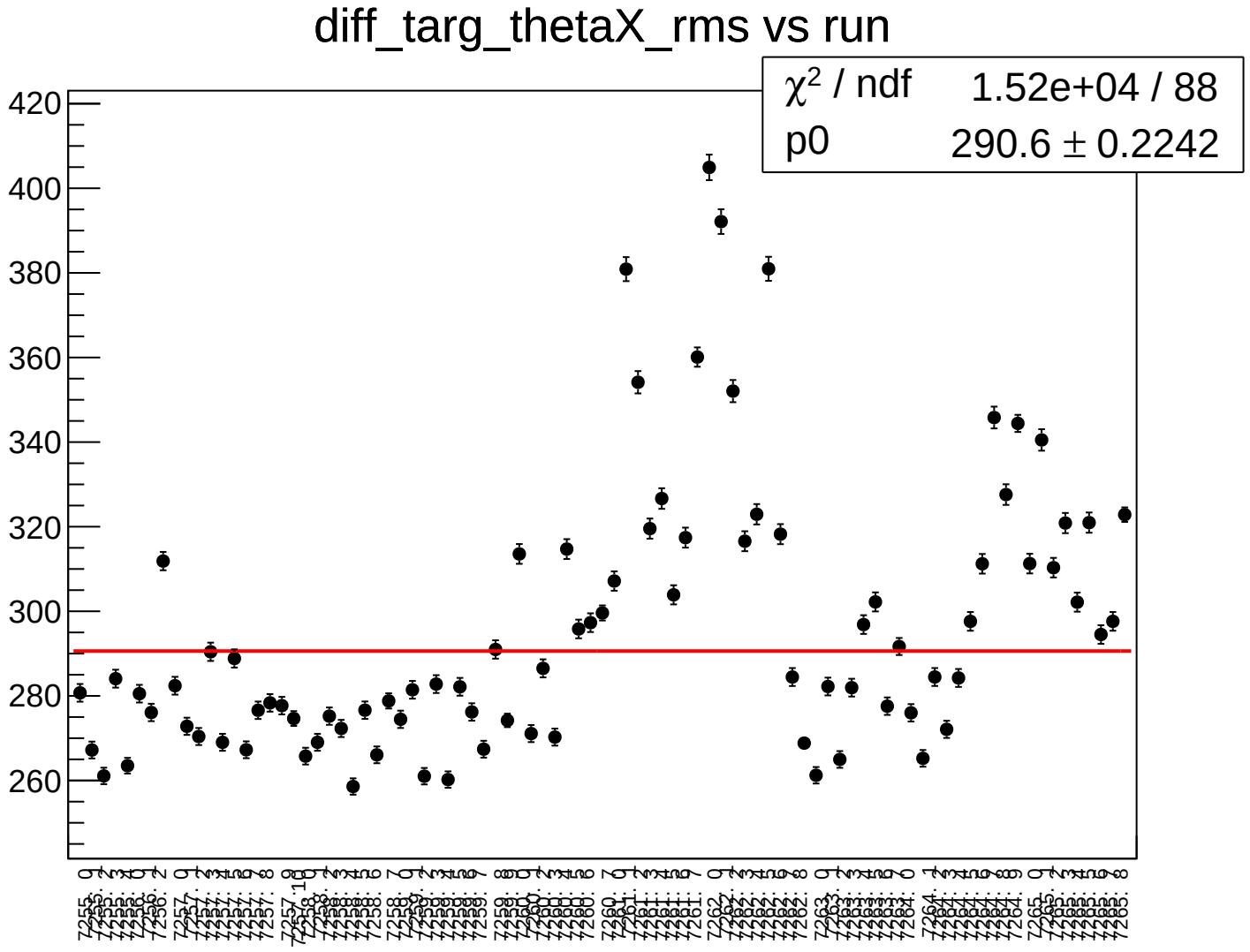

diff_targ_positionX_rms vs run
χ^2 / ndf 3150 / 88
p0 7074 ± 5.438
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

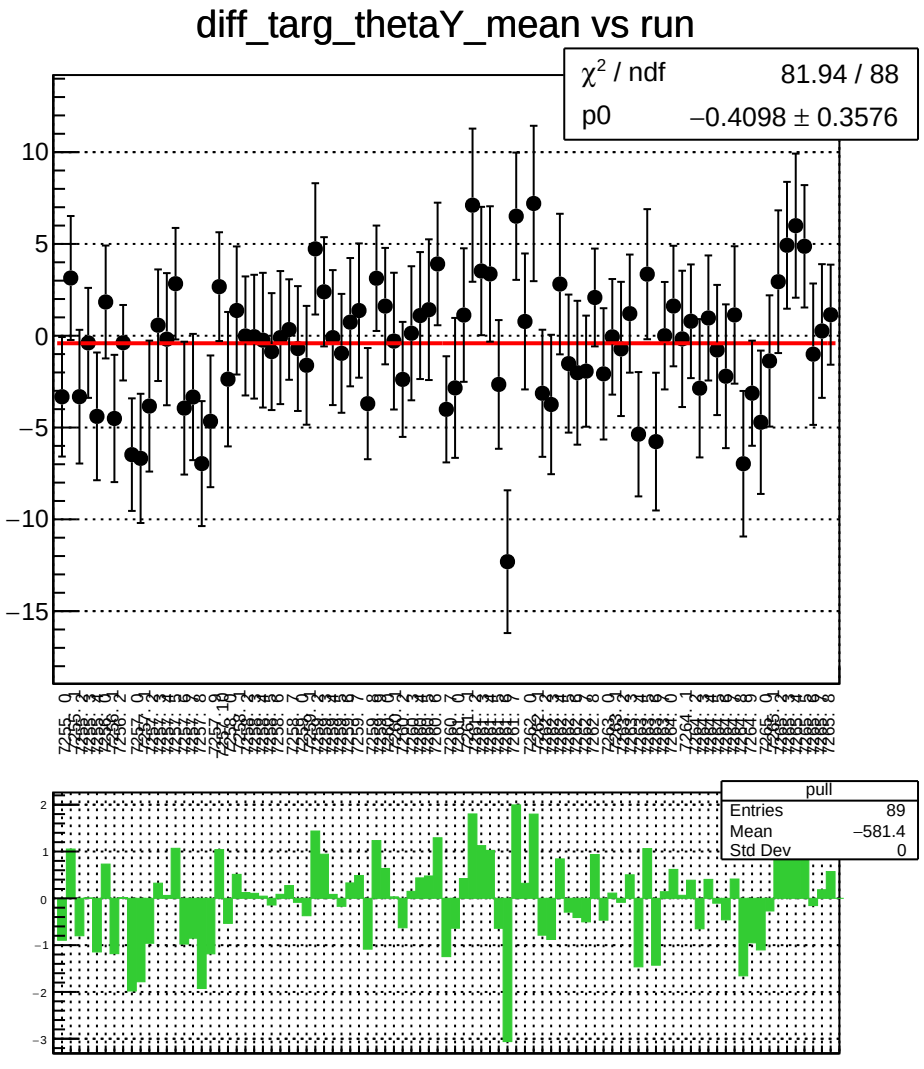

diff_targ_positionY_mean vs run
χ² / ndf 106.5 / 88
p0 −0.3416 ± 7.53
pull
Entries 89
Mean 126.9
Std Dev 0
pull1D
Entries 89
Mean 0.02149
Std Dev 1.094

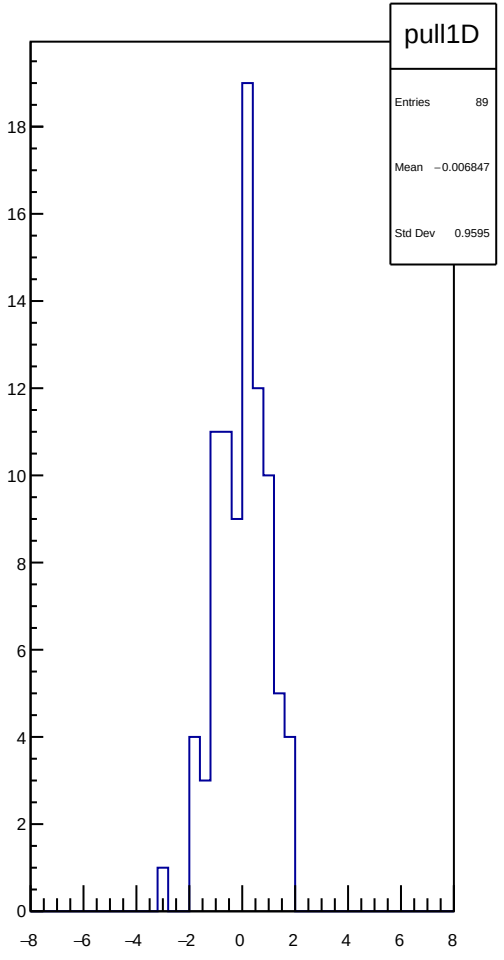

diff_targ_positionY_rms vs run
χ² / ndf 3639 / 88
p0 6925 ± 5.324
7800
7600
7400
7200
7000
6800
6600
6400
6200

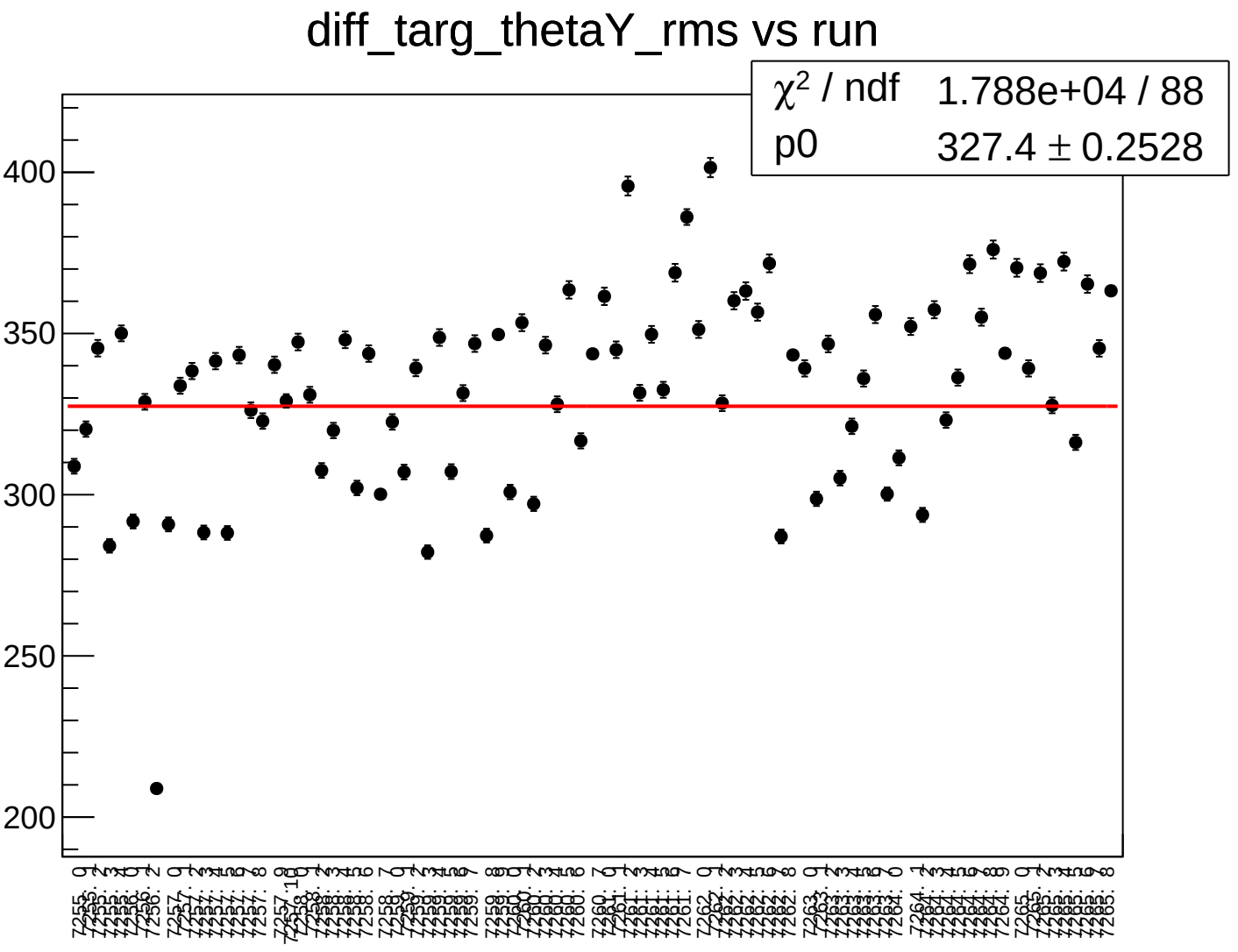

diff_targ_thetaX_mean vs run
χ² / ndf 96.43 / 88
p0 0.6213 ± 0.3171
pull
Entries 89
Mean 385.9
Std Dev 0

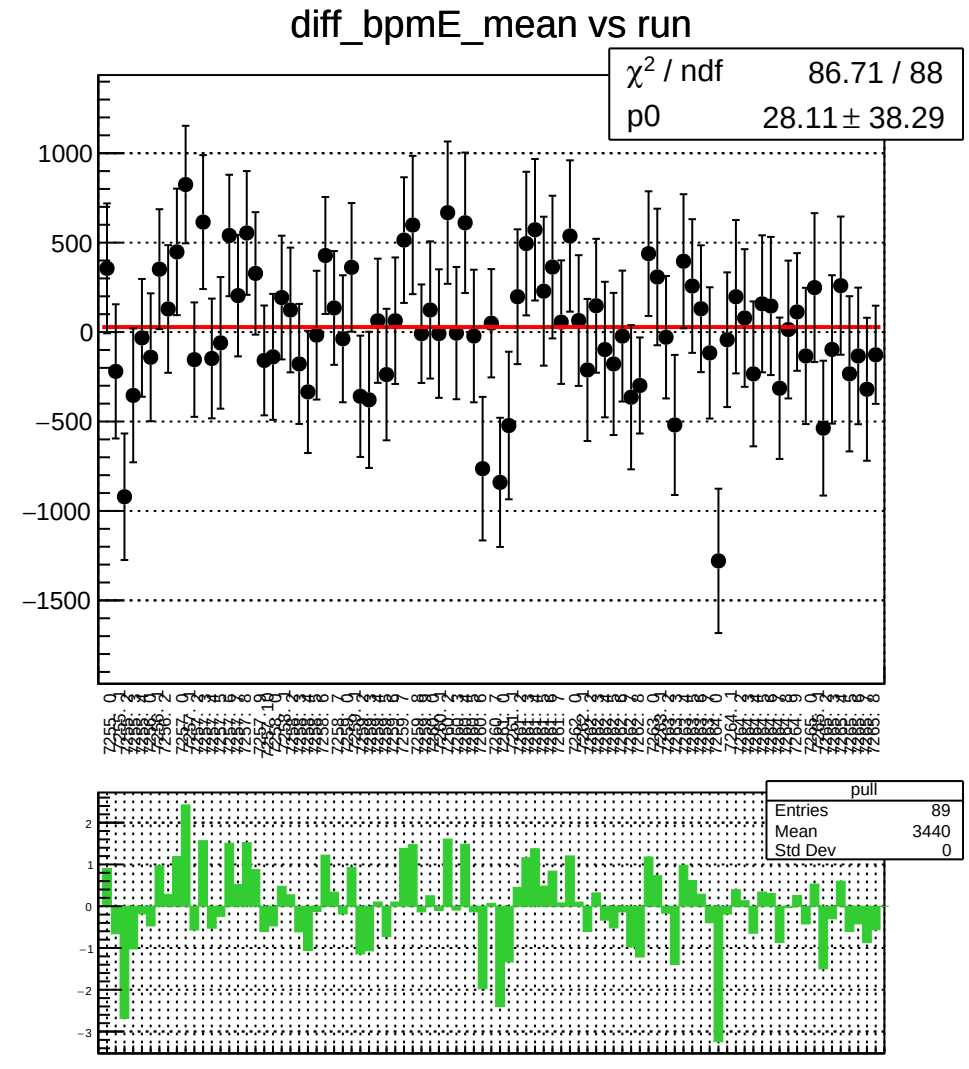

pull1D
Entries 89
Mean −0.006417
Std Dev 1.041

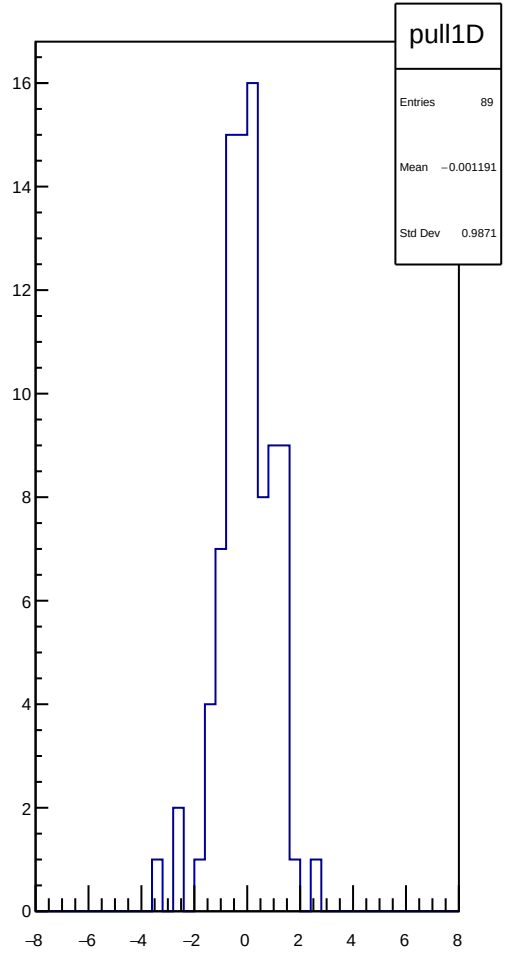

diff_targ_thetaX_rms vs run
χ² / ndf 1.52e+04 / 88
p0 290.6 ± 0.2242
420
400
380
360
340
320
300
280
260

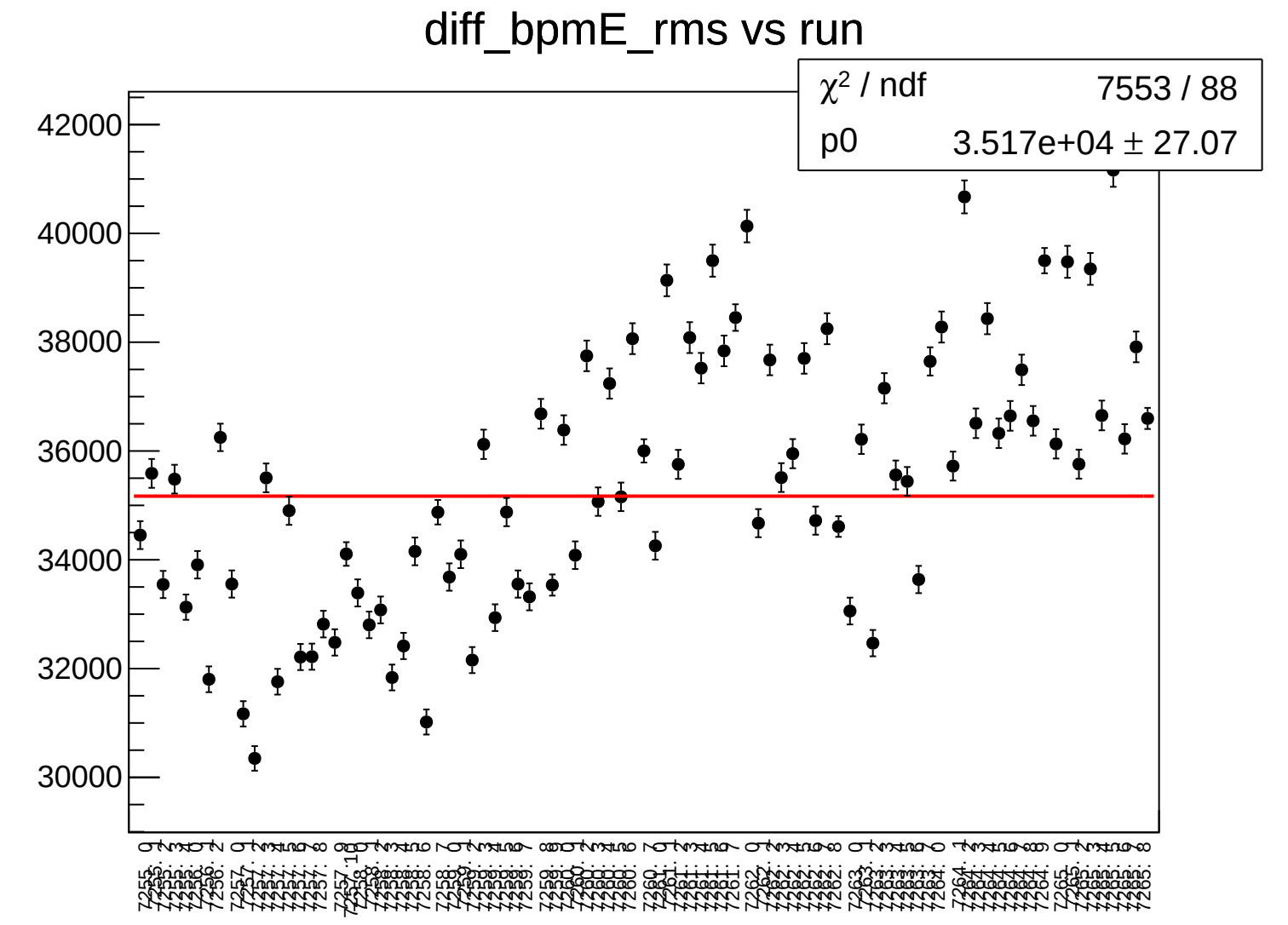

diff_targ_thetaY_mean vs run
χ² / ndf 81.94 / 88
p0 −0.4098 ± 0.3576
pull
Entries 89
Mean −581.4
Std Dev 0

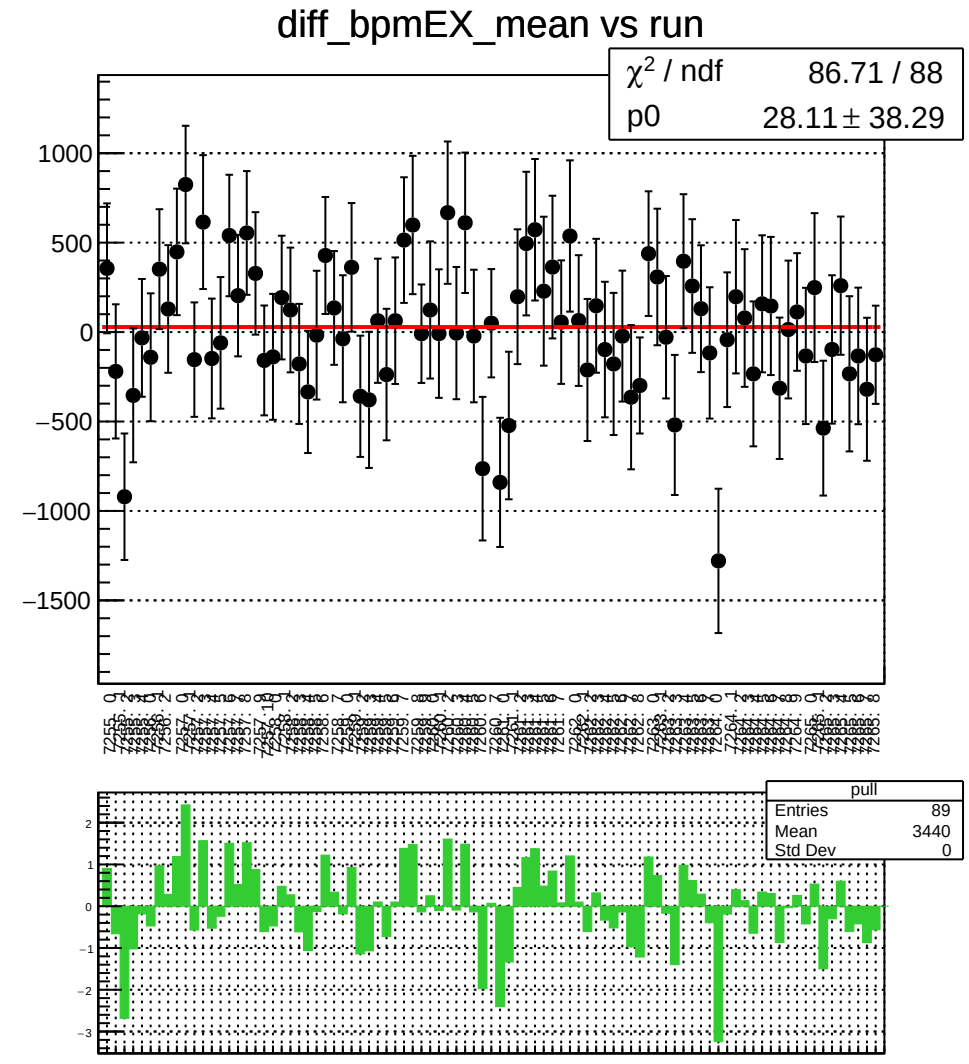

pull1D
Entries 89
Mean −0.006847
Std Dev 0.9595

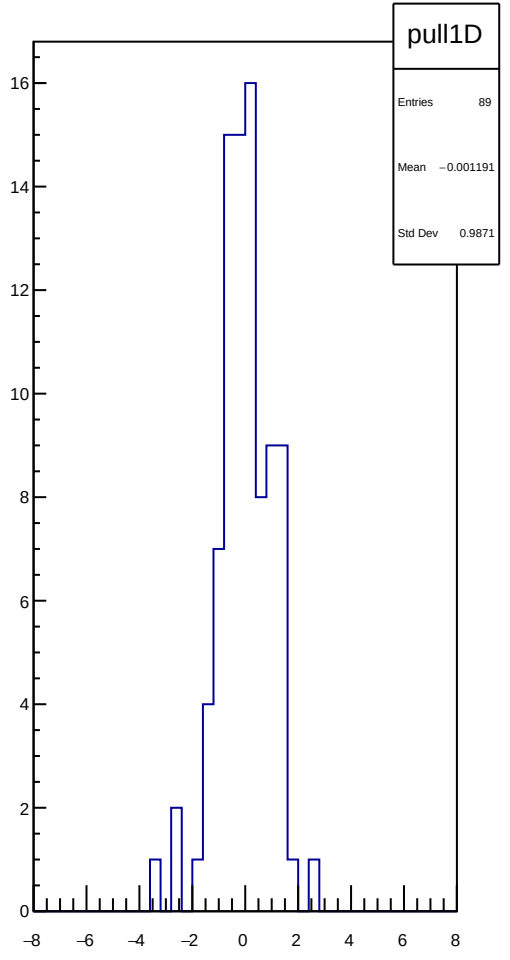

diff_targ_thetaY_rms vs run
χ² / ndf 1.788e+04 / 88
p0 327.4 ± 0.2528
400
350
300
250
200

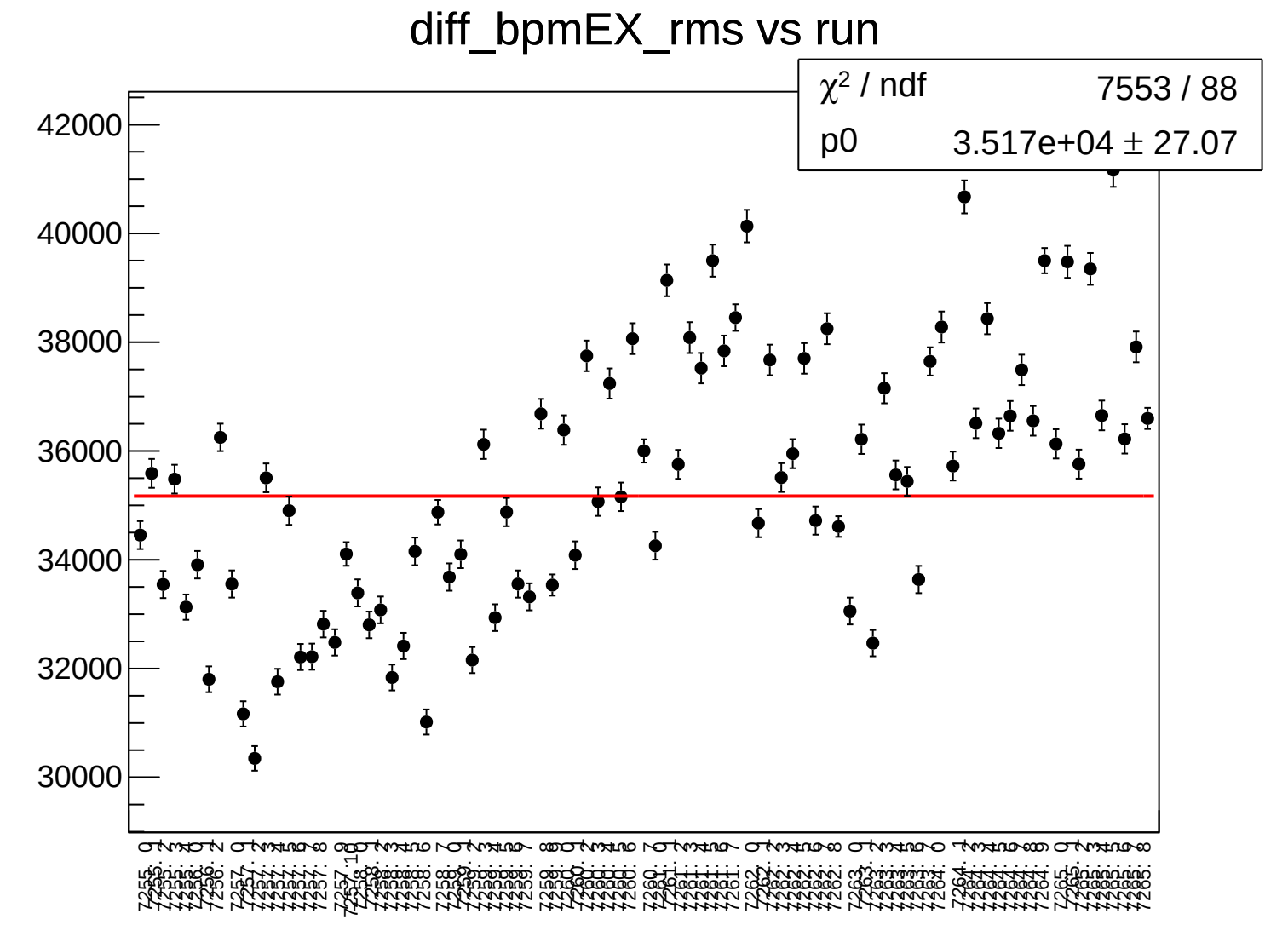

diff_bpmE_mean vs run
χ^2 / ndf 86.71 / 88
p0 28.11 ± 38.29
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean 3440
Std Dev 0
2
1
0
−1
−2
−3

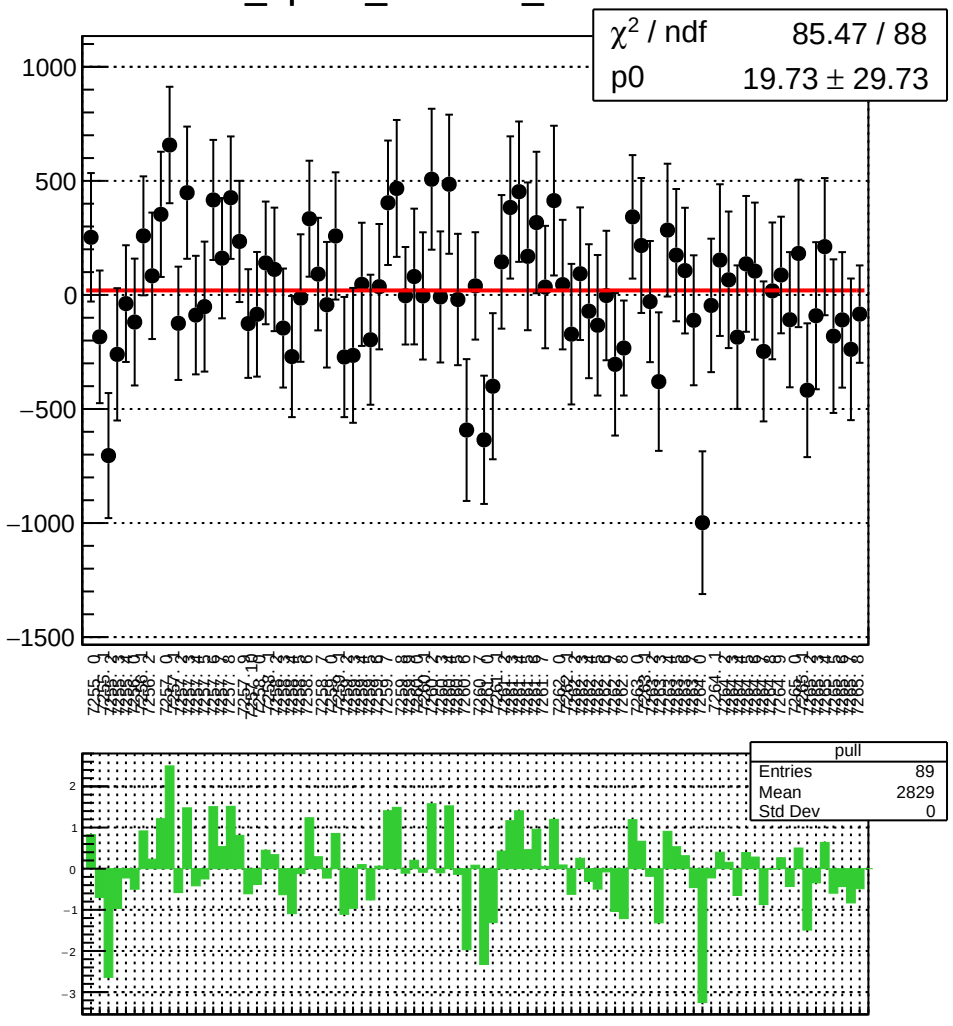

pull1D
Entries 89
Mean −0.001191
Std Dev 0.9871
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

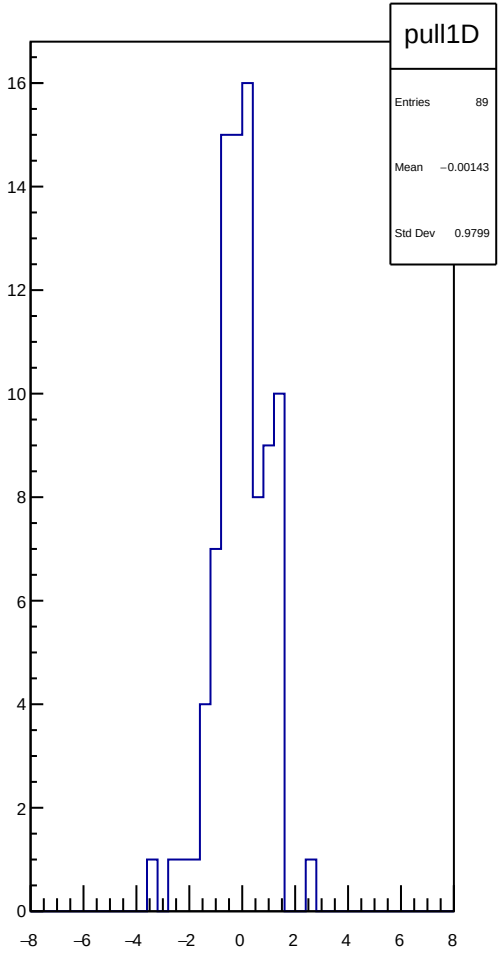

diff_bpmE_rms vs run
χ² / ndf 7553 / 88
p0 3.517e+04 ± 27.07
42000
40000
38000
36000
34000
32000
30000

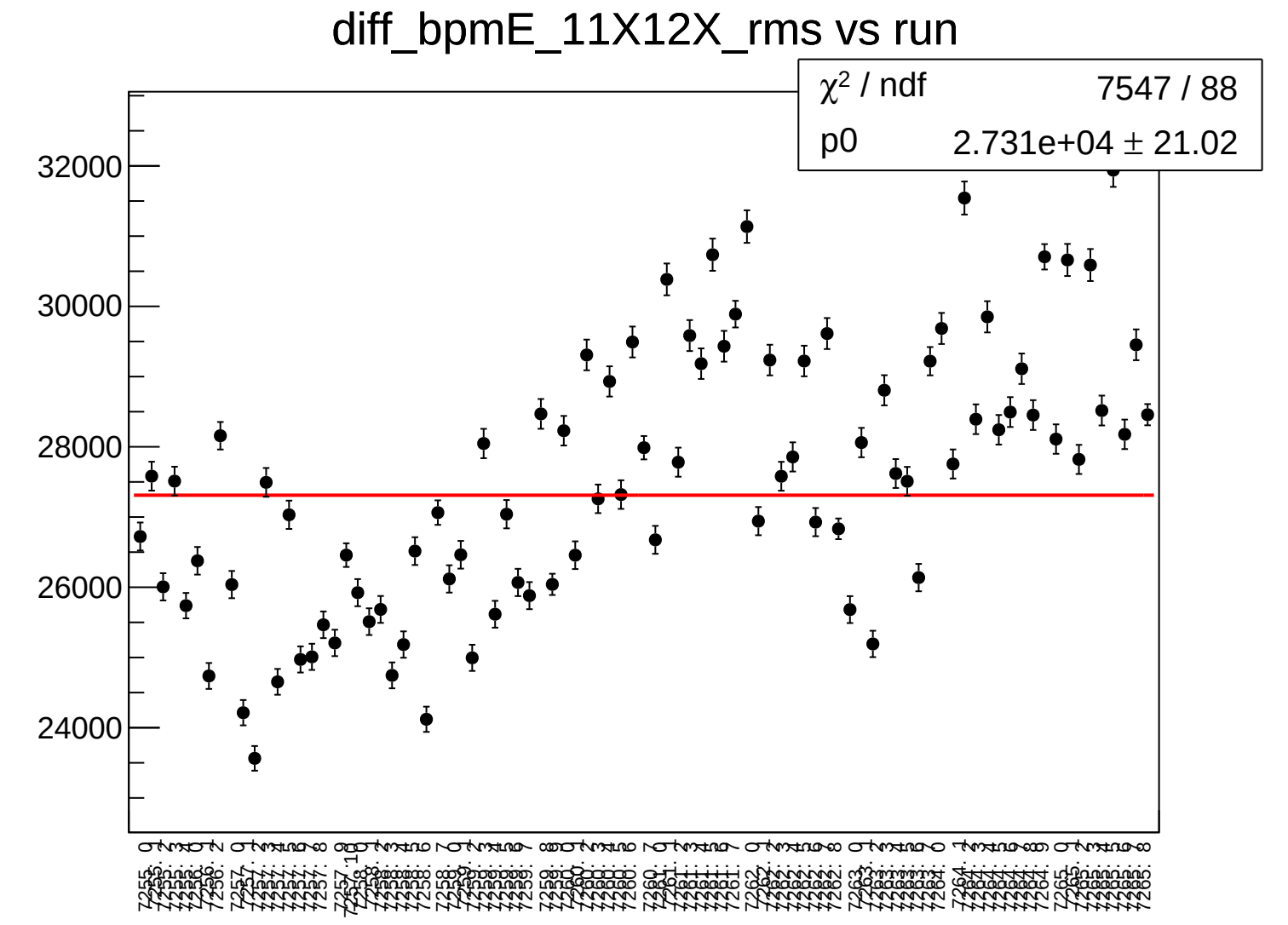

diff_bpmEX_mean vs run
χ^2 / ndf 86.71 / 88
p0 28.11 ± 38.29
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean 3440
Std Dev 0
2
1
0
−1
−2
−3

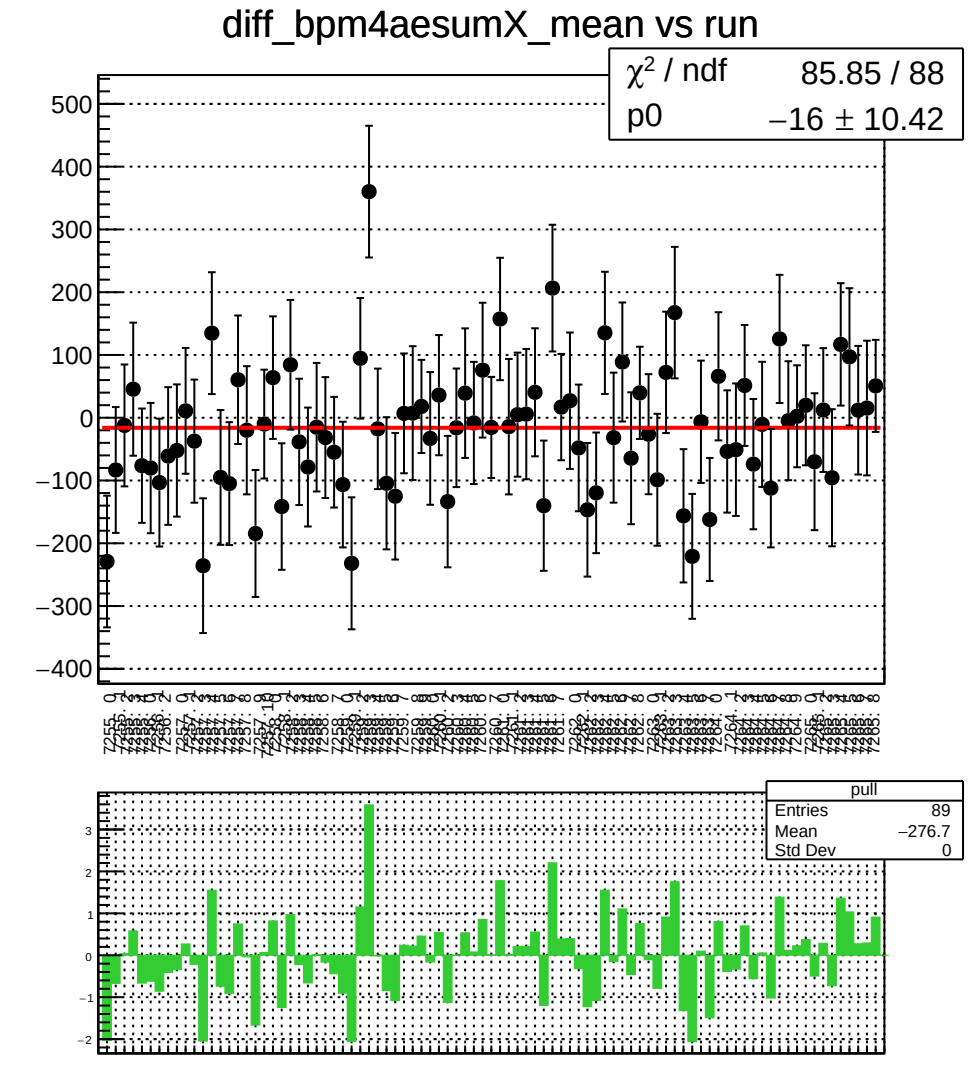

pull1D
Entries 89
Mean −0.001191
Std Dev 0.9871
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

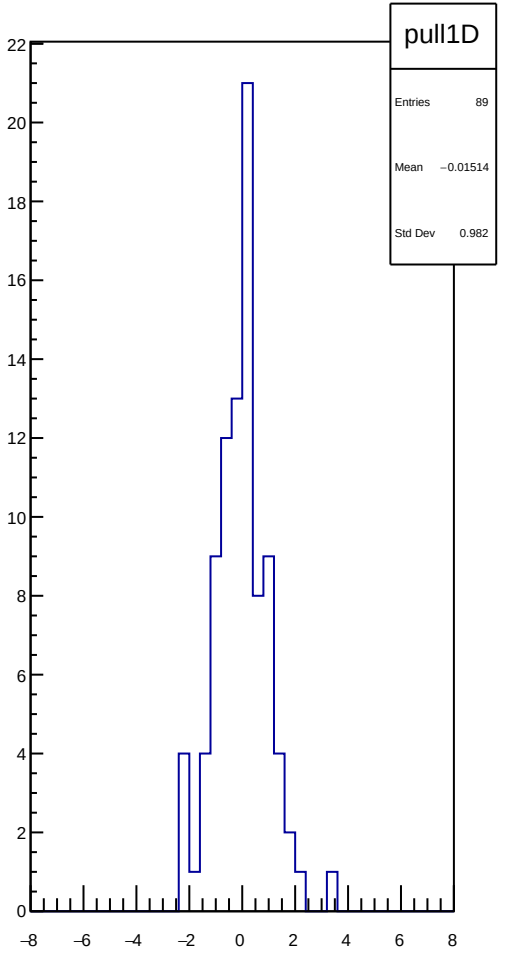

diff_bpmEX_rms vs run
χ² / ndf 7553 / 88
p0 3.517e+04 ± 27.07
42000
40000
38000
36000
34000
32000
30000

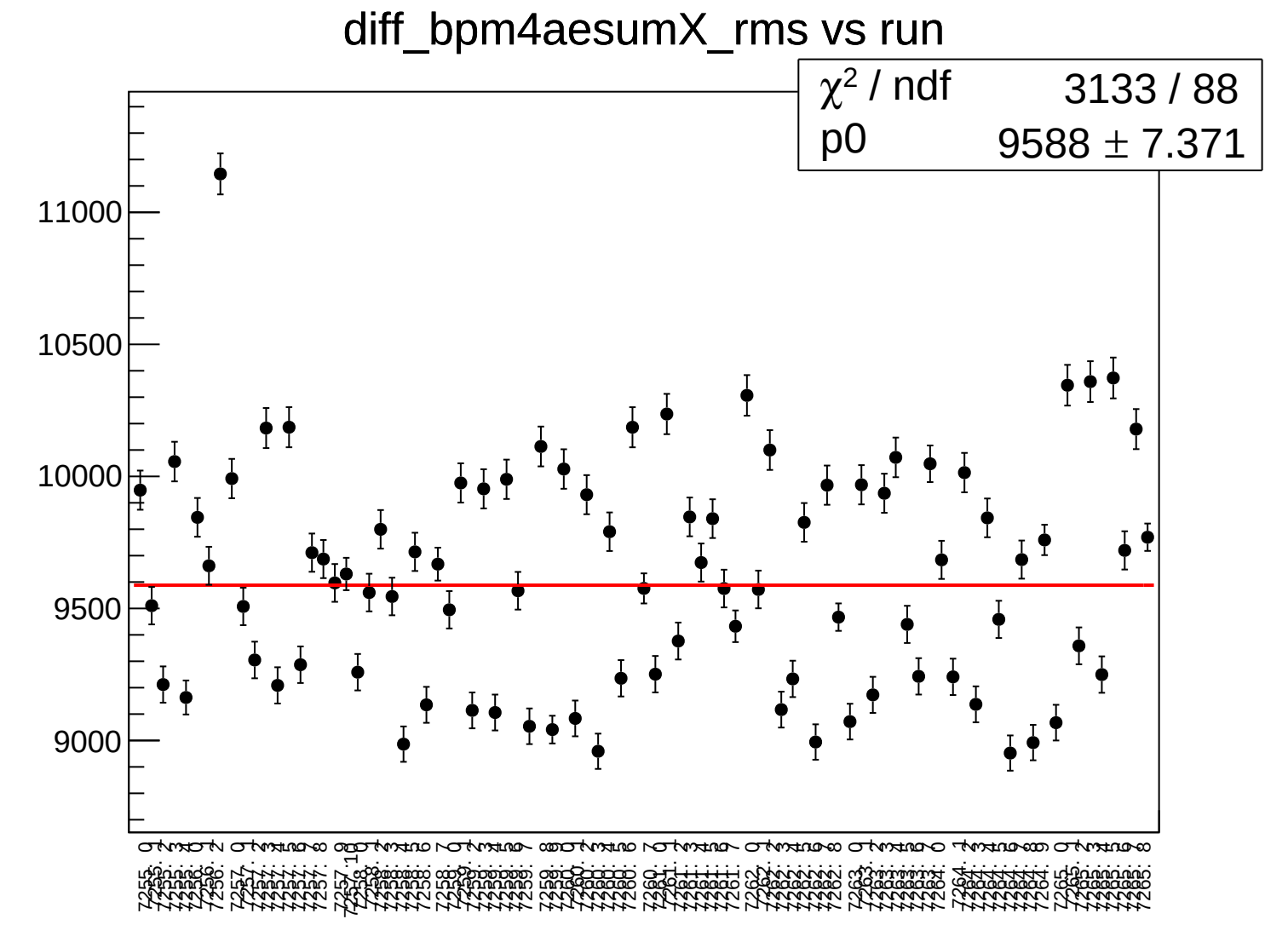

diff_bpmE_11X12X_mean vs run
χ^2 / ndf 85.47 / 88
p0 19.73 ± 29.73
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean 2829
Std Dev 0
2
1
0
−1
−2
−3

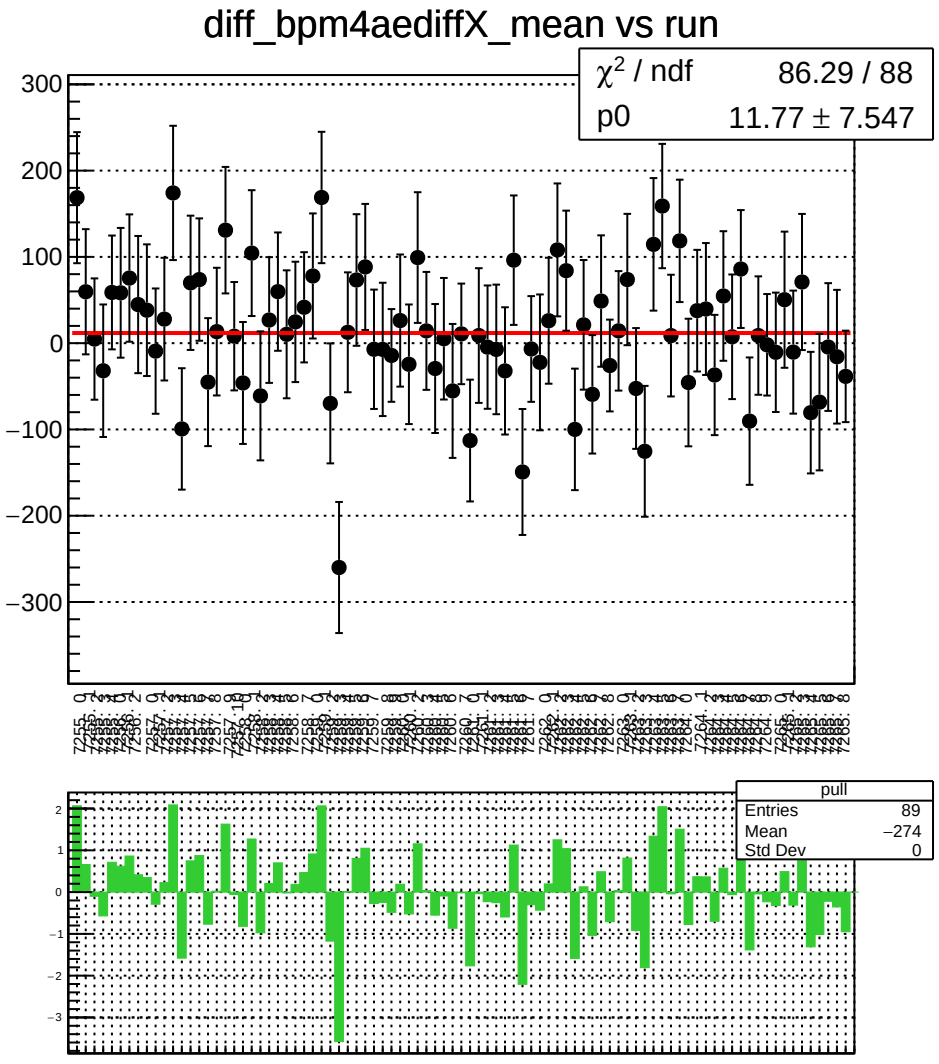

pull1D
Entries 89
Mean −0.00143
Std Dev 0.9799
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

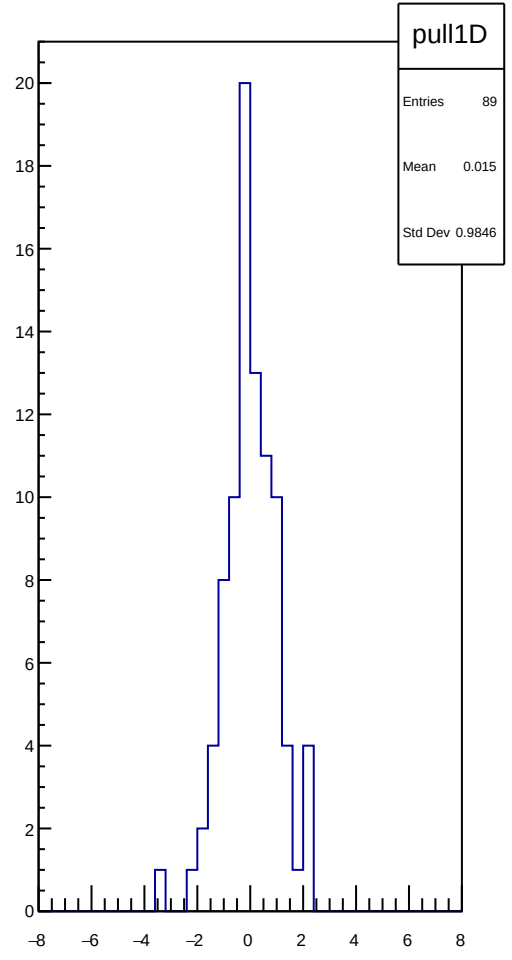

diff_bpmE_11X12X_rms vs run
χ² / ndf 7547 / 88
p0 2.731e+04 ± 21.02
32000
30000
28000
26000
24000

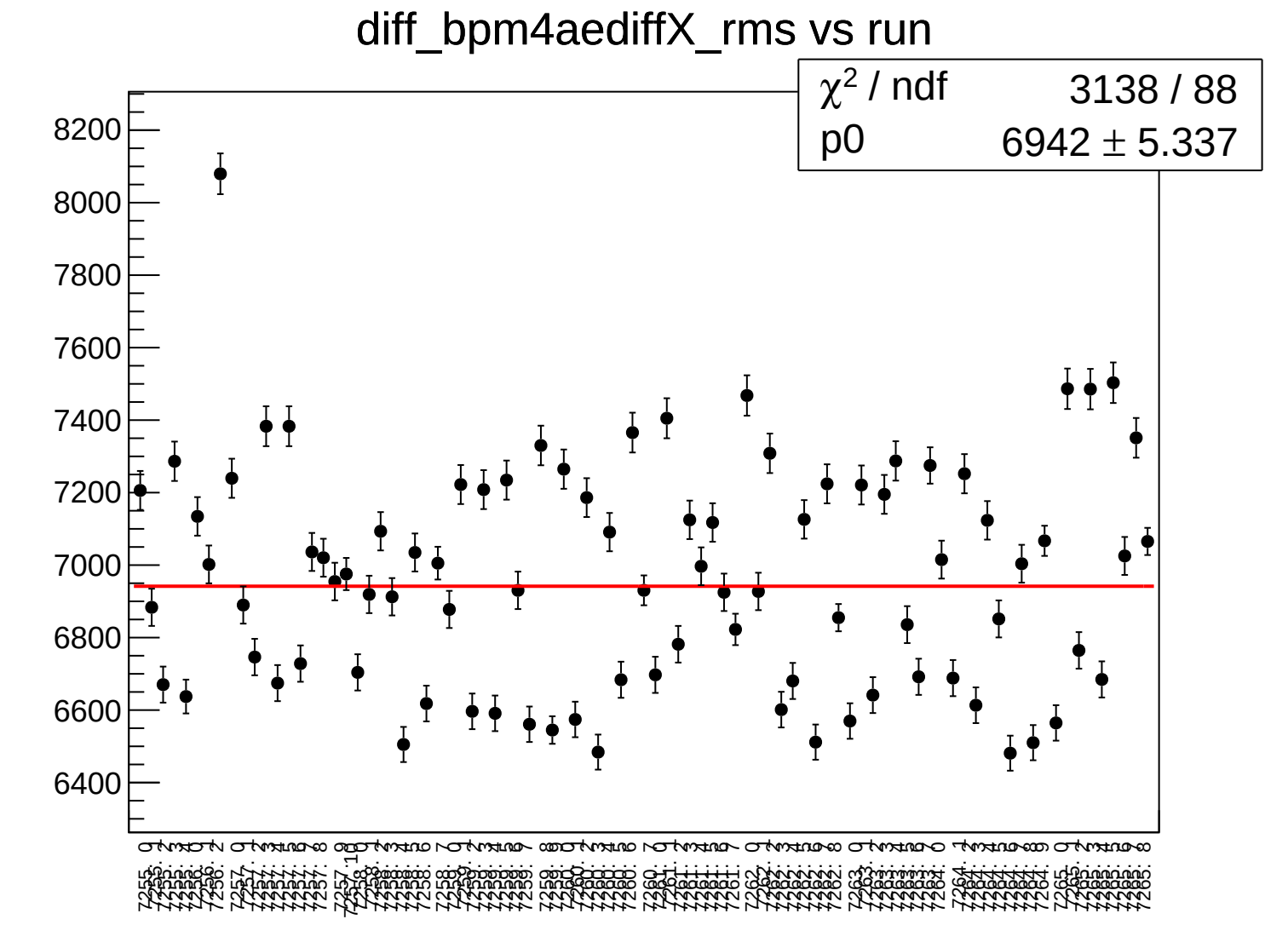

diff_bpm4aesumX_mean vs run
χ² / ndf 85.85 / 88
p0 −16 ± 10.42
pull
Entries 89
Mean −276.7
Std Dev 0

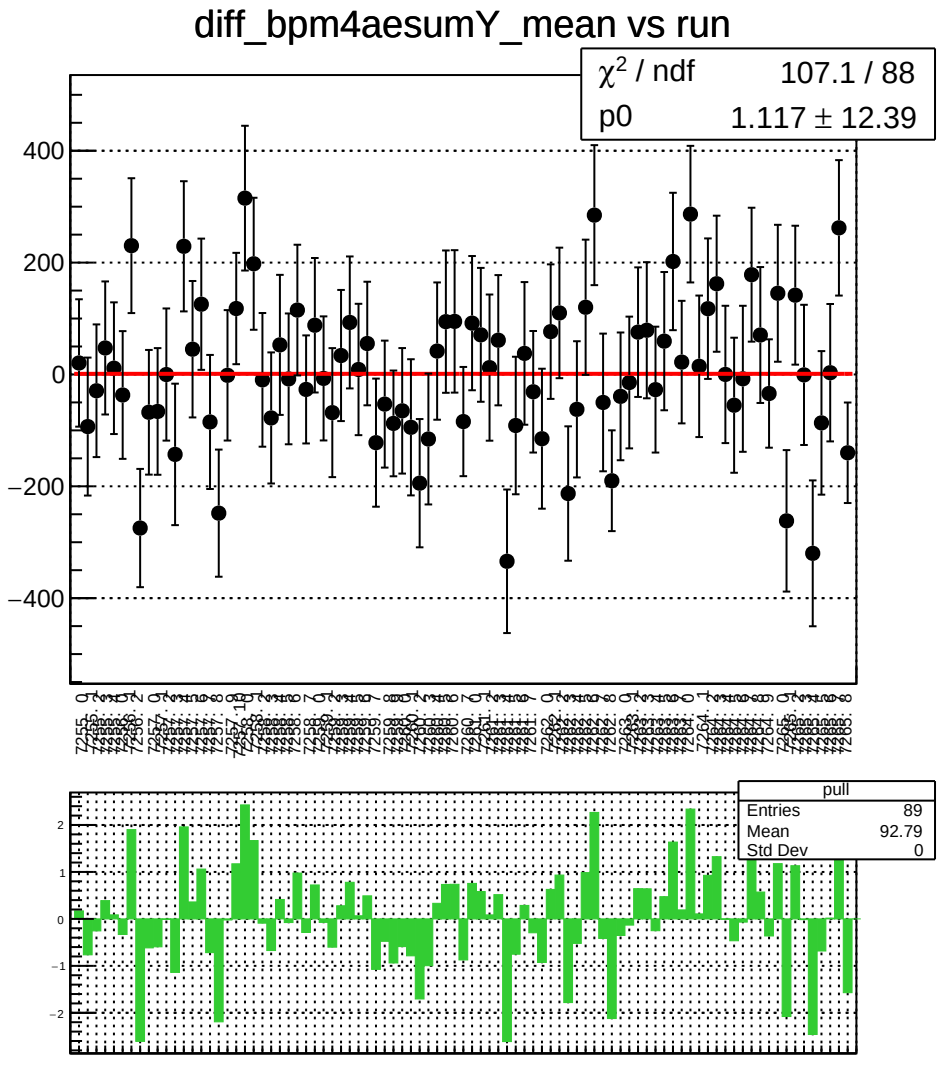

pull1D
Entries 89
Mean −0.01514
Std Dev 0.982

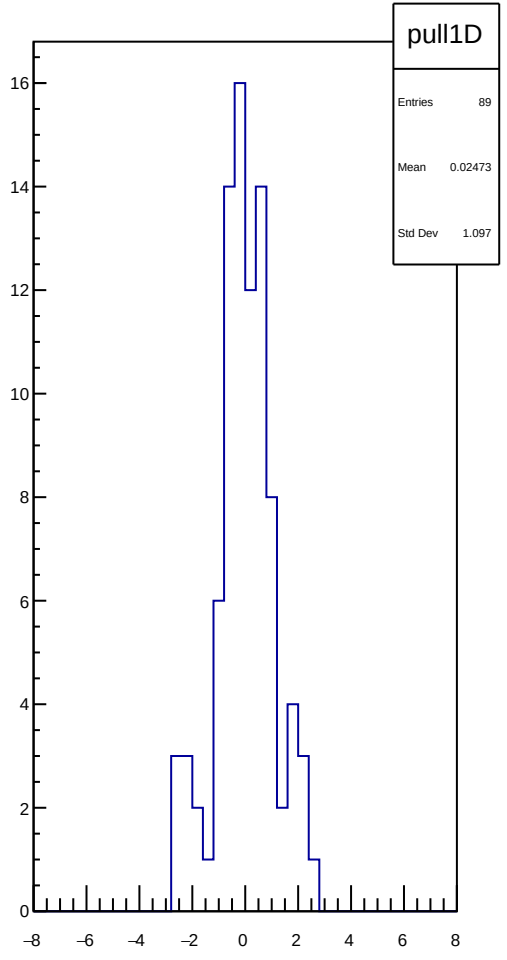

diff_bpm4aesumX_rms vs run
χ² / ndf 3133 / 88
p0 9588 ± 7.371
11000
10500
10000
9500
9000

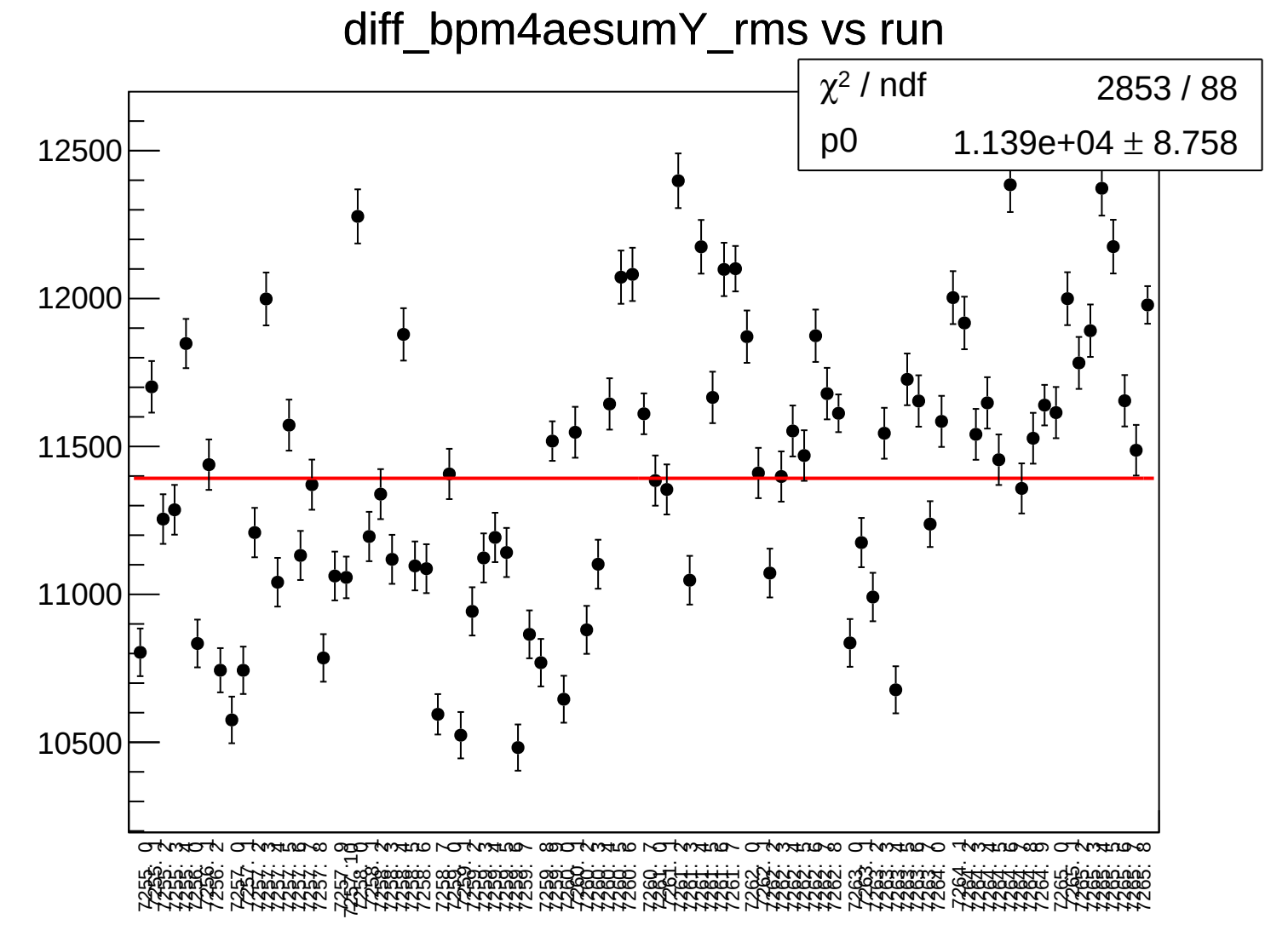

diff_bpm4aediffX_mean vs run
χ² / ndf 86.29 / 88
p0 11.77 ± 7.547
pull
Entries 89
Mean −274
Std Dev 0

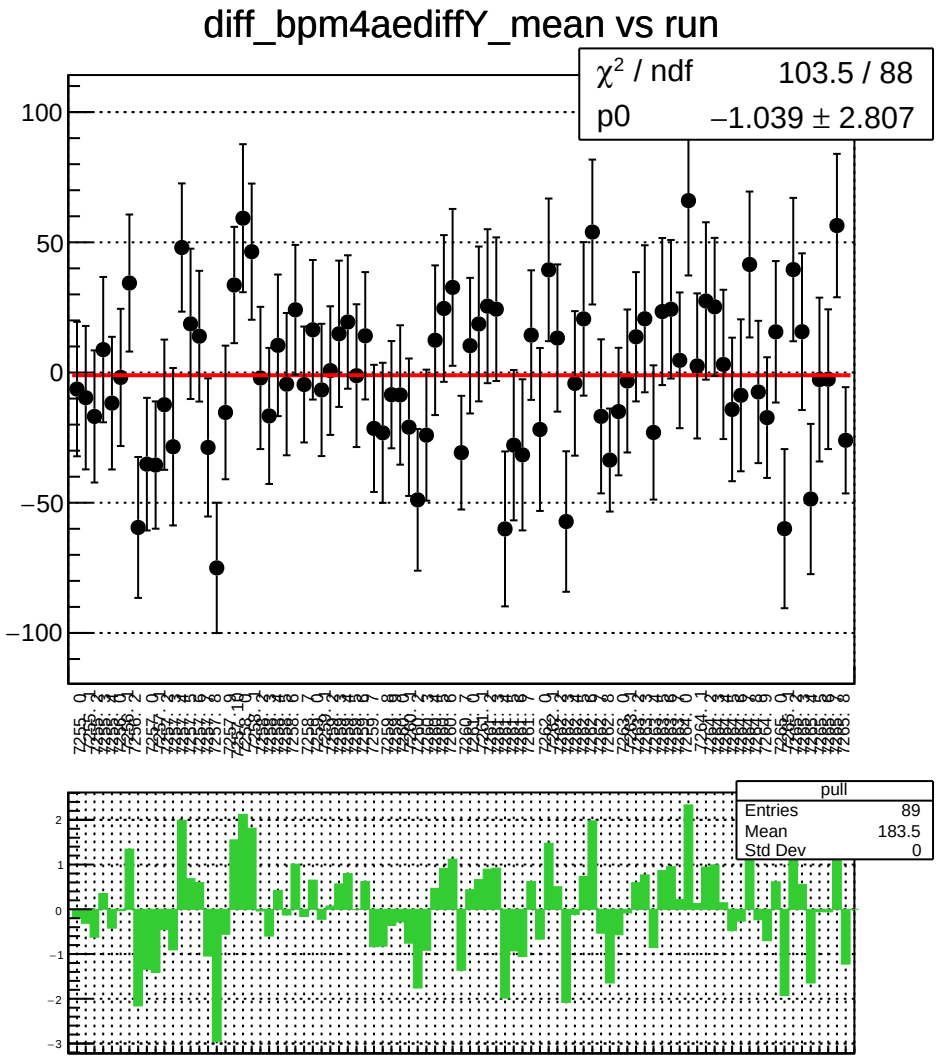

pull1D
Entries 89
Mean 0.015
Std Dev 0.9846

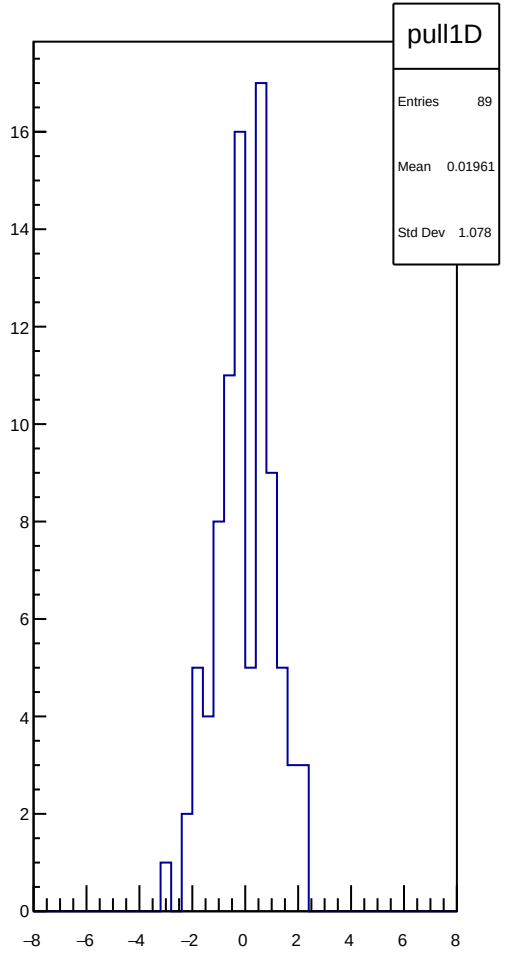

diff_bpm4aediffX_rms vs run
χ² / ndf 3138 / 88
p0 6942 ± 5.337
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

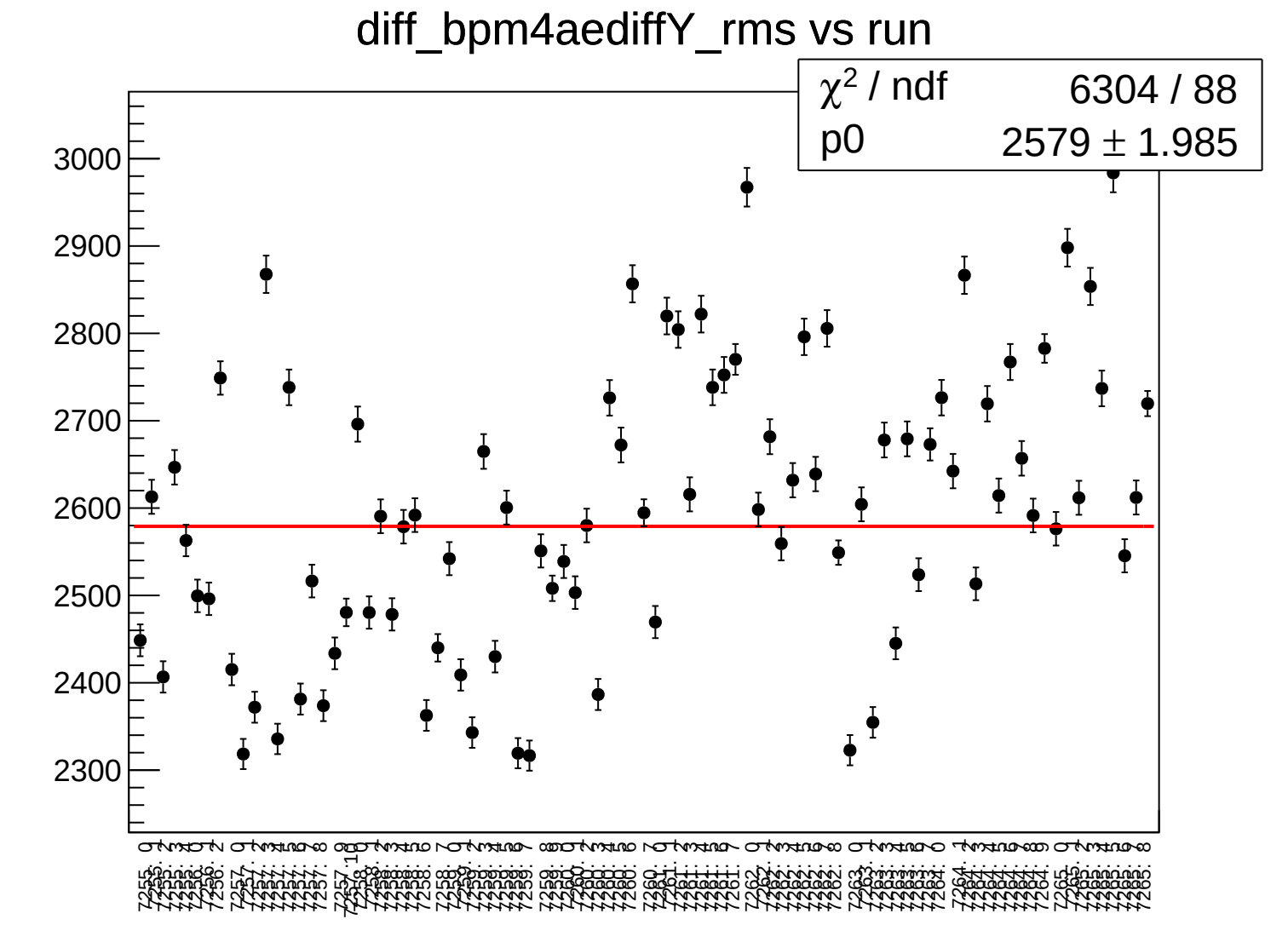

diff_bpm4aesumY_mean vs run
χ² / ndf 107.1 / 88
p0 1.117 ± 12.39
400
200
0
−200
−400
pull
Entries 89
Mean 92.79
Std Dev 0
2
1
0
−1
−2

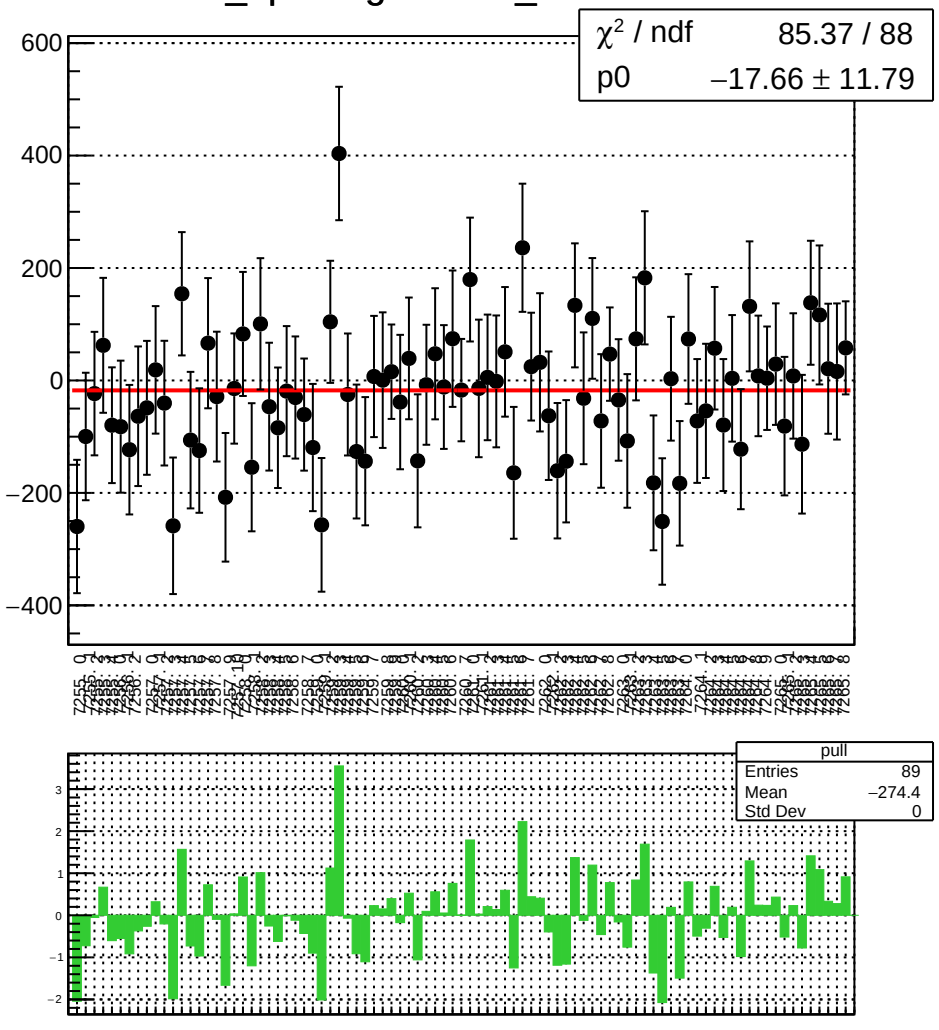

pull1D
Entries 89
Mean 0.02473
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

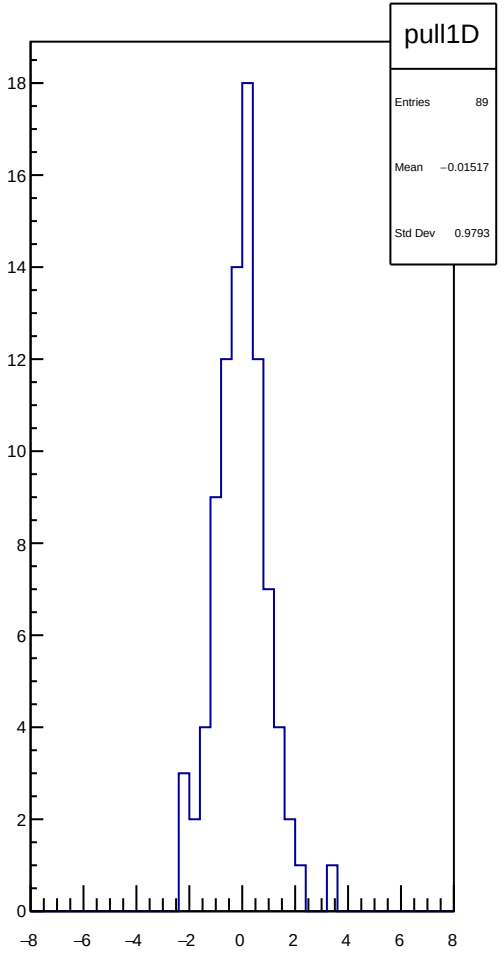

diff_bpm4aesumY_rms vs run
χ² / ndf 2853 / 88
p0 1.139e+04 ± 8.758
12500
12000
11500
11000
10500

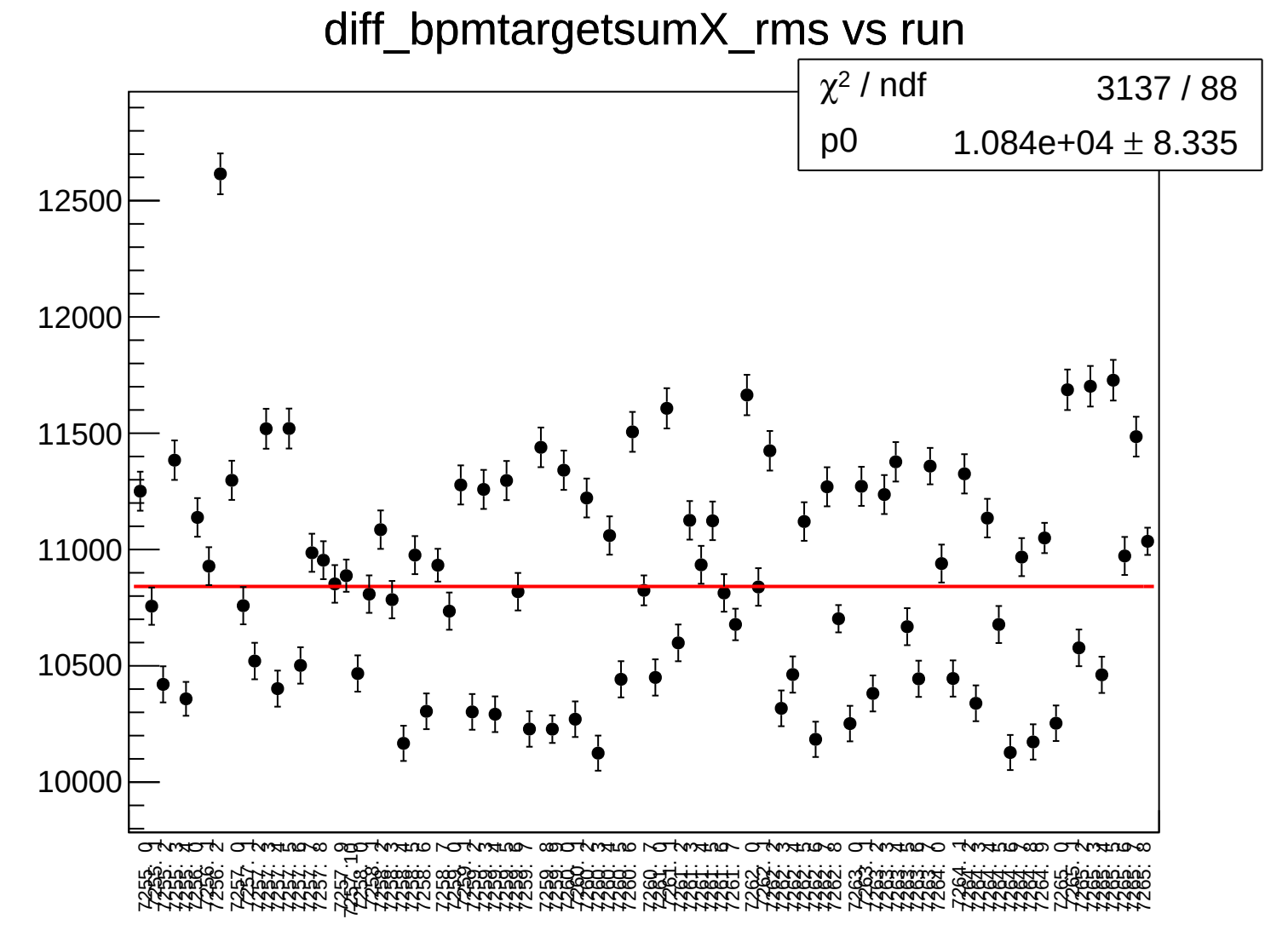

diff_bpm4aediffY_mean vs run
χ² / ndf 103.5 / 88
p0 −1.039 ± 2.807
100
50
0
−50
−100
pull
Entries 89
Mean 183.5
Std Dev 0
2
1
0
−1
−2
−3

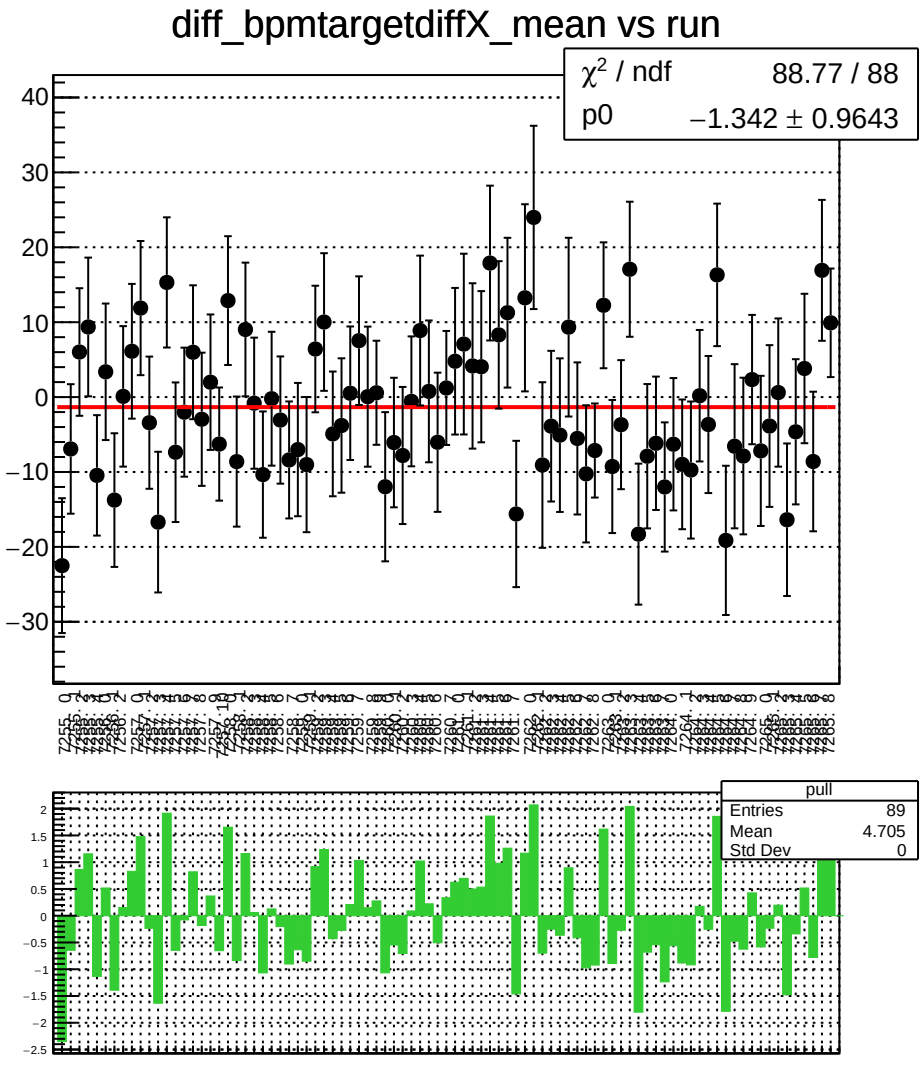

pull1D
Entries 89
Mean 0.01961
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

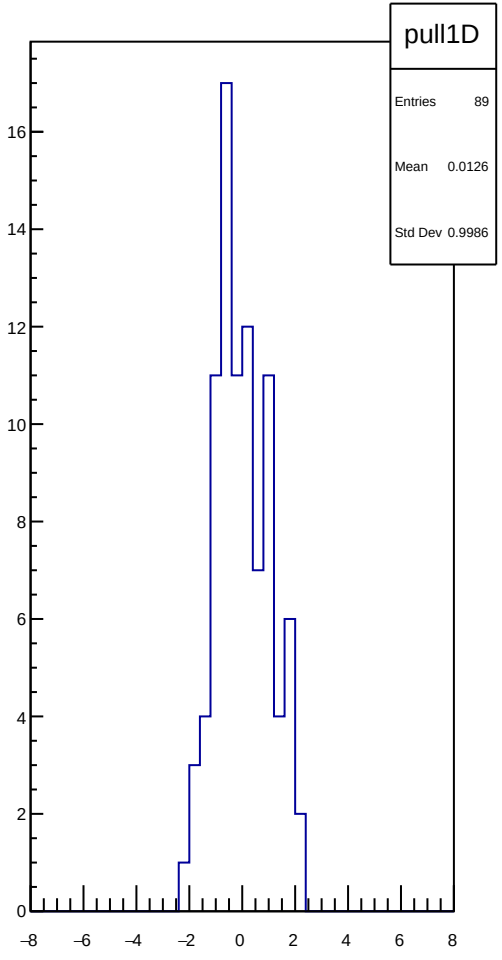

diff_bpm4aediffY_rms vs run
χ² / ndf 6304 / 88
p0 2579 ± 1.985
3000
2900
2800
2700
2600
2500
2400
2300

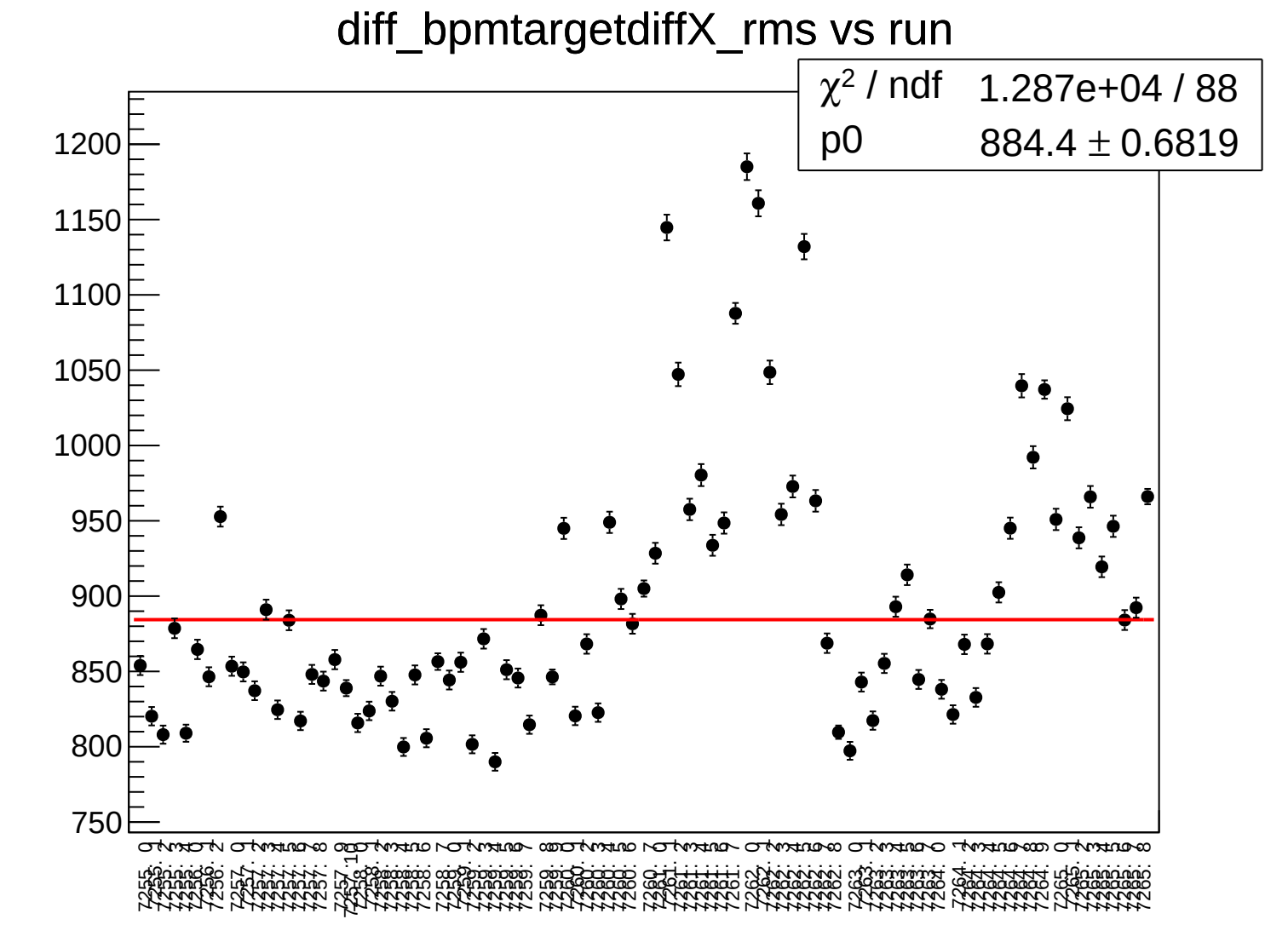

diff_bpmtargetsumX_mean vs run
χ² / ndf 85.37 / 88
p0 −17.66 ± 11.79
pull
Entries 89
Mean −274.4
Std Dev 0

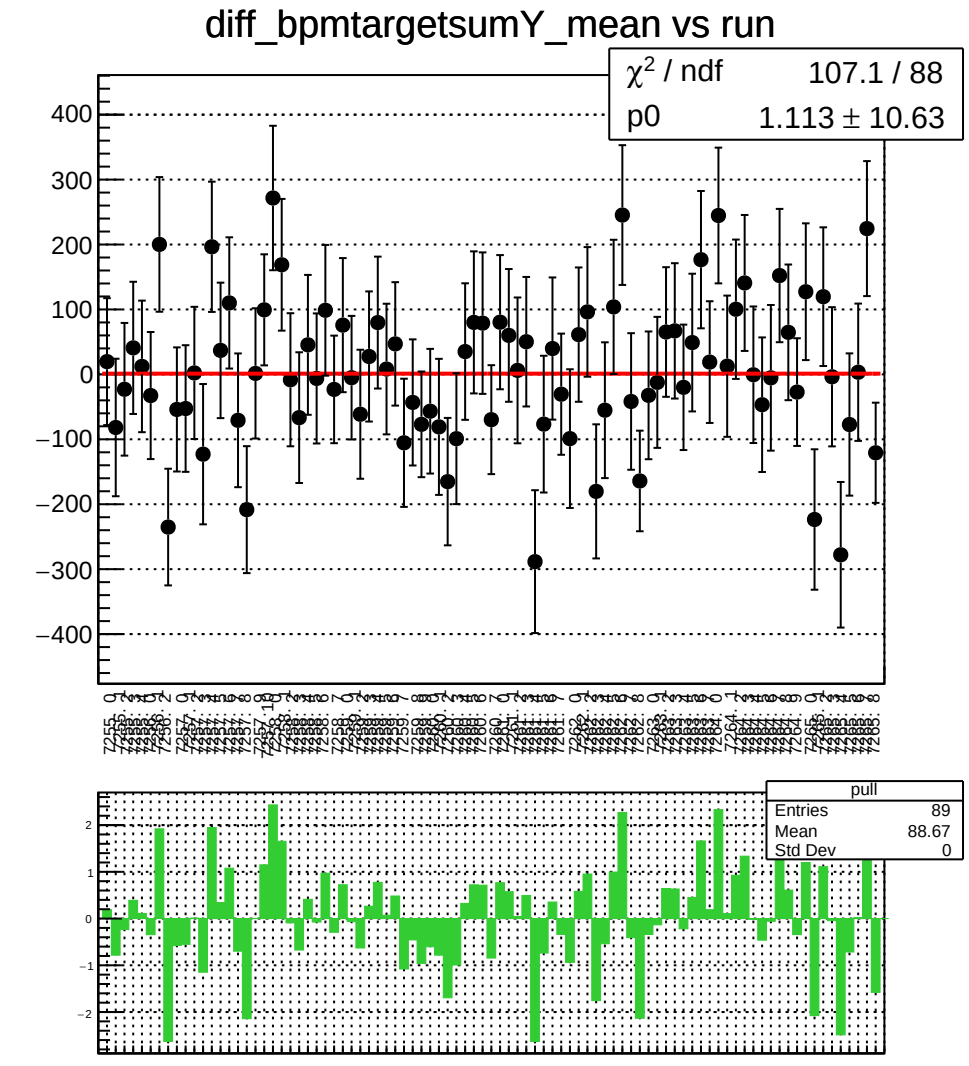

pull1D
Entries 89
Mean −0.01517
Std Dev 0.9793

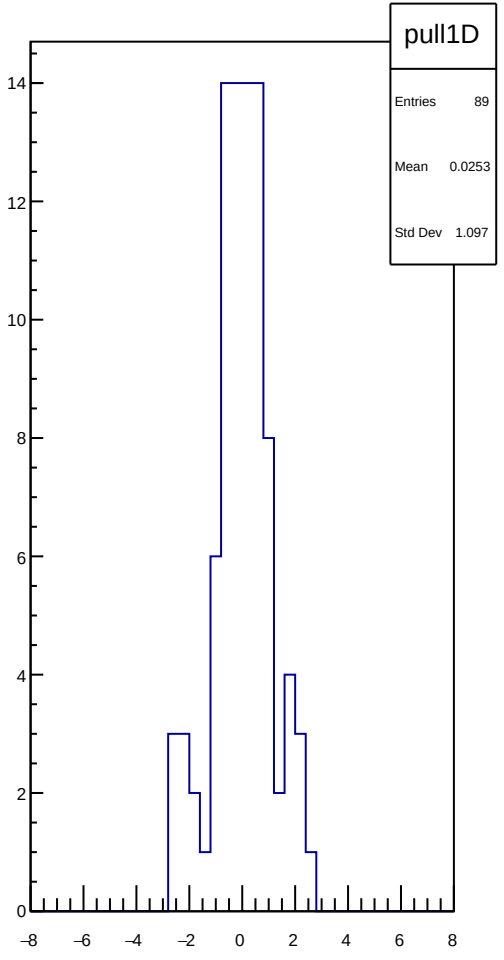

diff_bpmtargetsumX_rms vs run
χ² / ndf 3137 / 88
p0 1.084e+04 ± 8.335
12500
12000
11500
11000
10500
10000

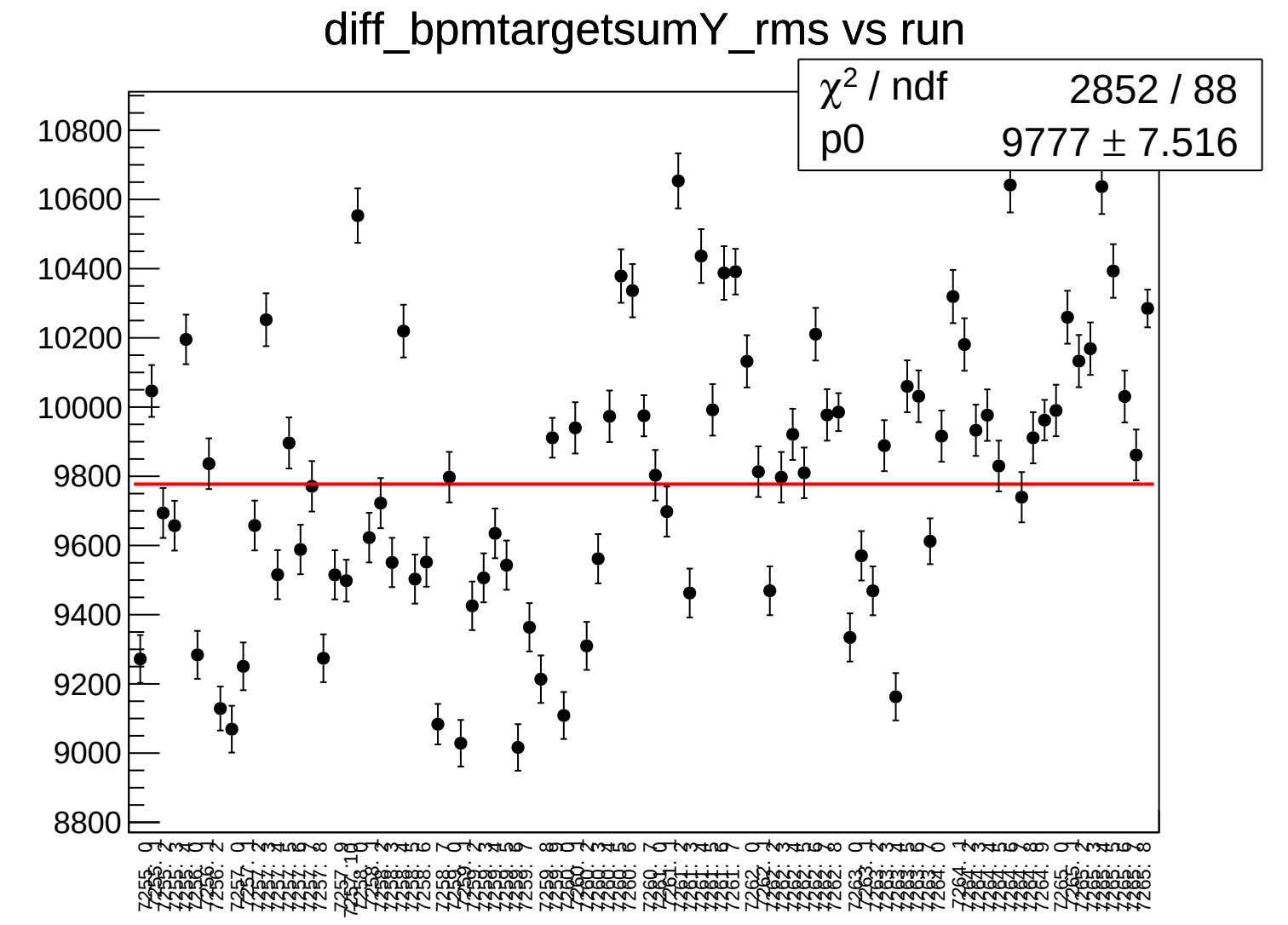

diff_bpmtargetdiffX_mean vs run
χ² / ndf 88.77 / 88
p0 −1.342 ± 0.9643
pull
Entries 89
Mean 4.705
Std Dev 0

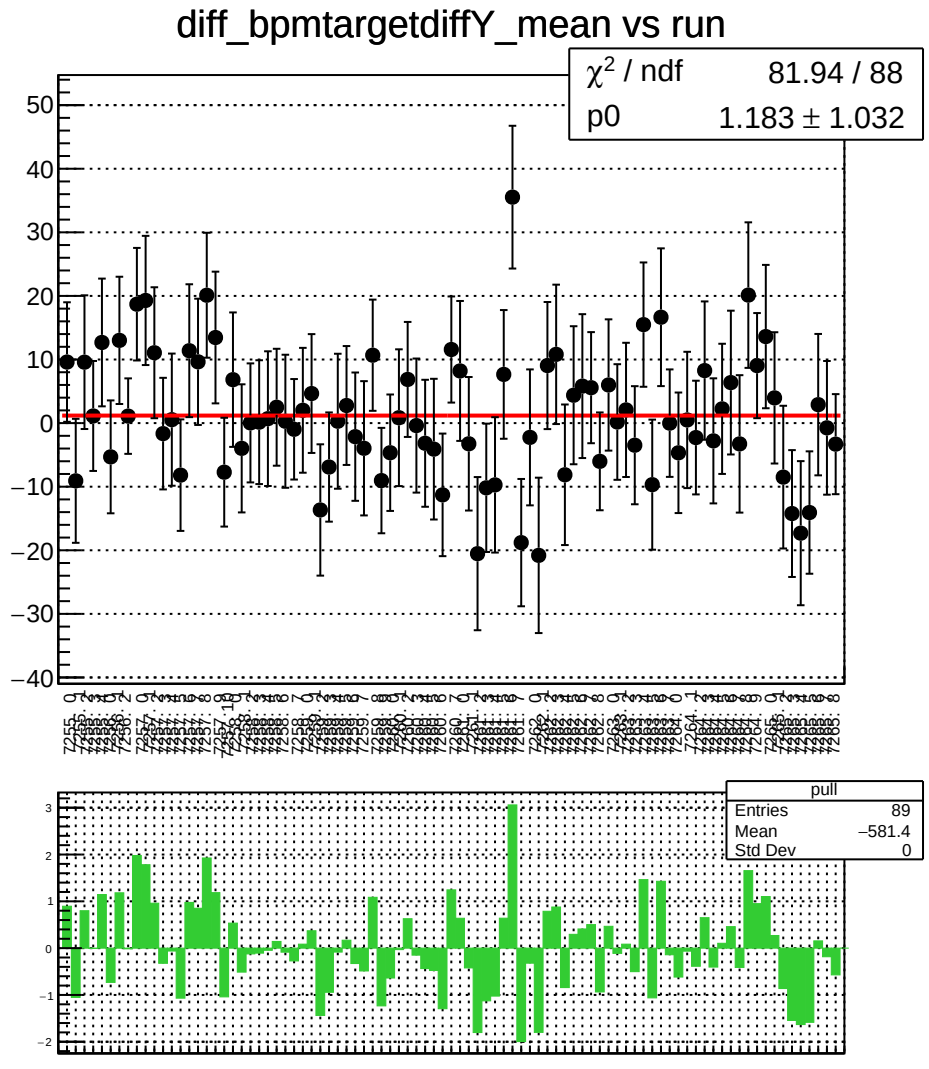

pull1D
Entries 89
Mean 0.0126
Std Dev 0.9986

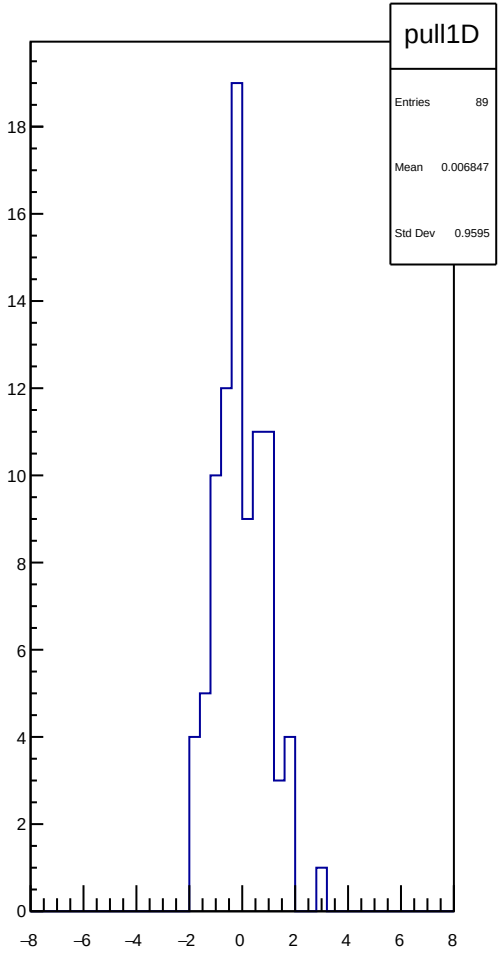

diff_bpmtargetdiffX_rms vs run
χ² / ndf 1.287e+04 / 88
p0 884.4 ± 0.6819
1200
1150
1100
1050
1000
950
900
850
800
750

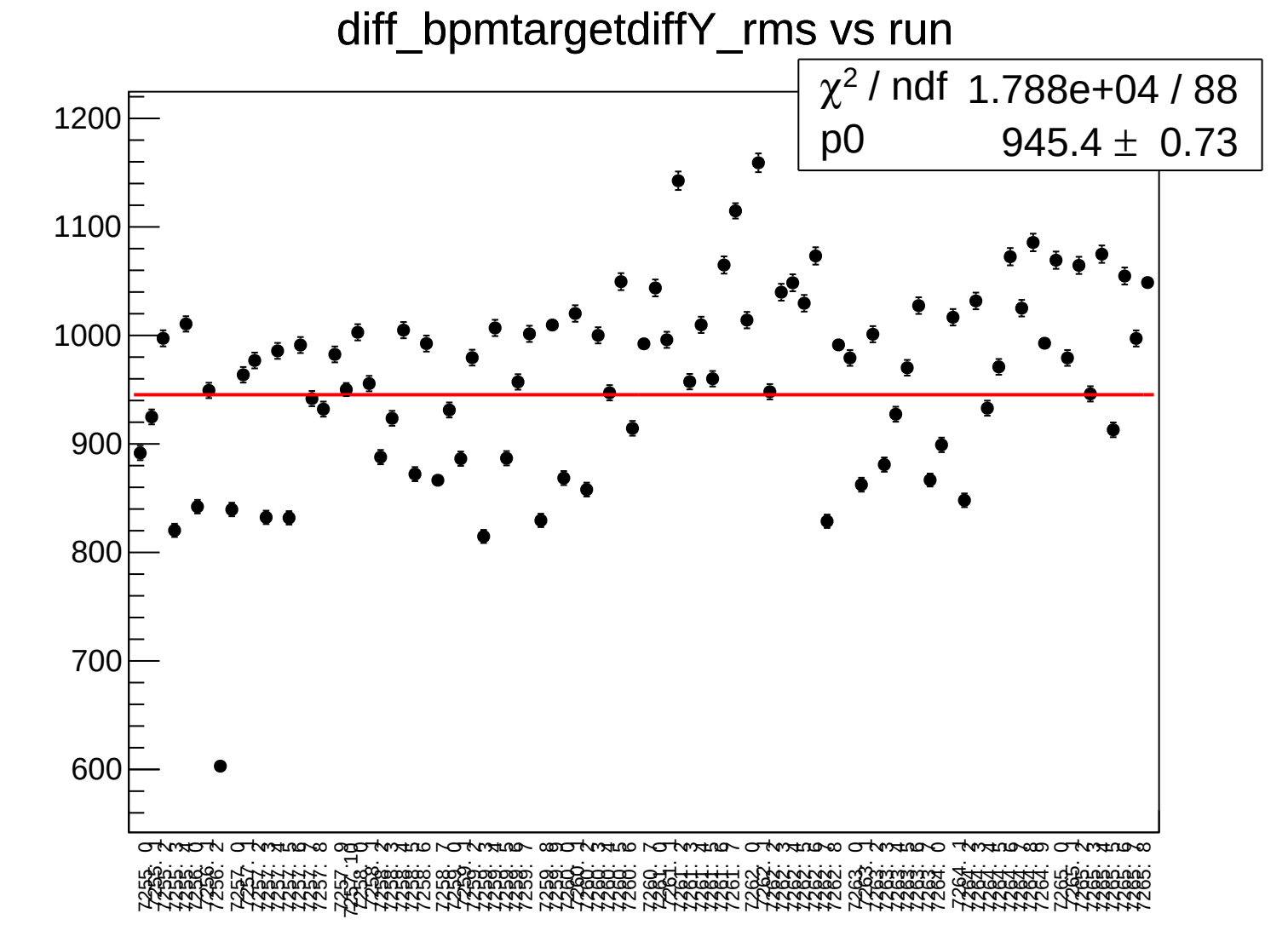

diff_bpmtargetsumY_mean vs run
χ² / ndf 107.1 / 88
p0 1.113 ± 10.63
pull
Entries 89
Mean 88.67
Std Dev 0

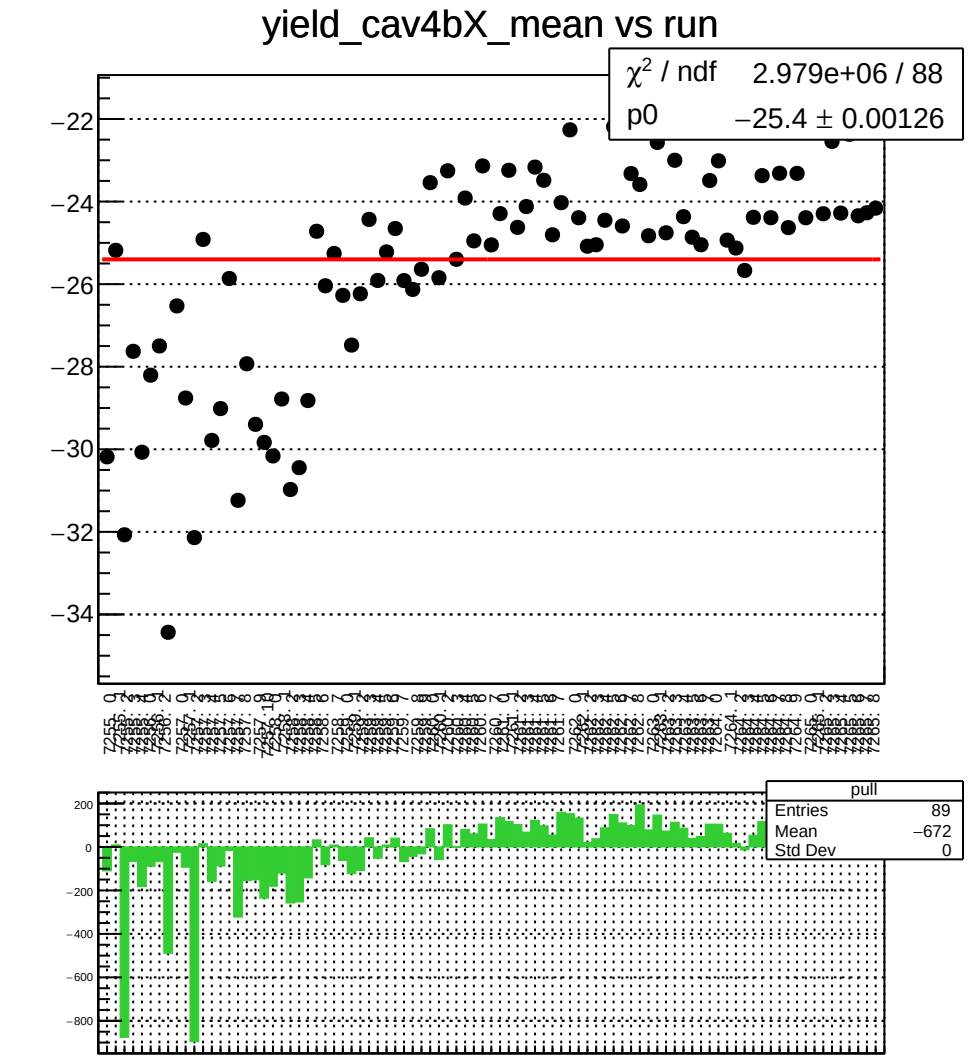

pull1D
Entries 89
Mean 0.0253
Std Dev 1.097

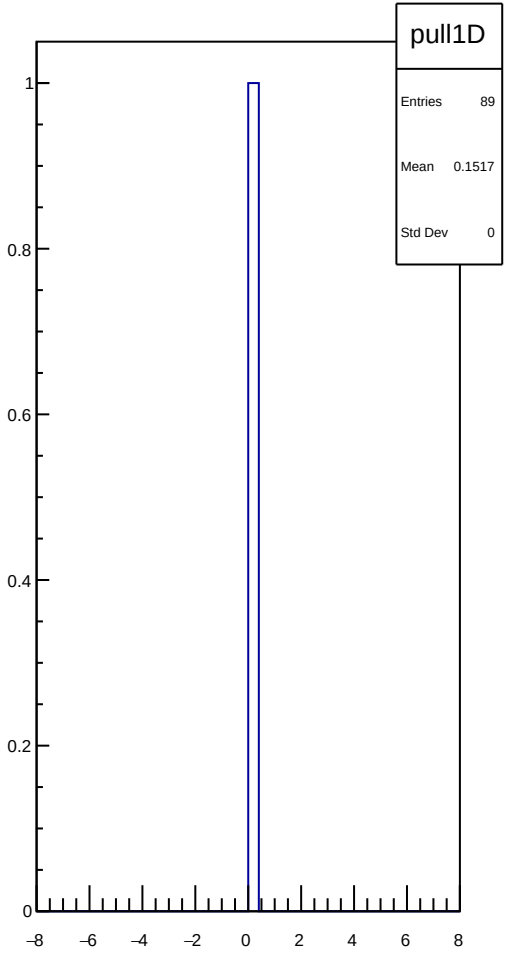

diff_bpmtargetsumY_rms vs run
χ² / ndf 2852 / 88
p0 9777 ± 7.516
10800
10600
10400
10200
10000
9800
9600
9400
9200
9000
8800

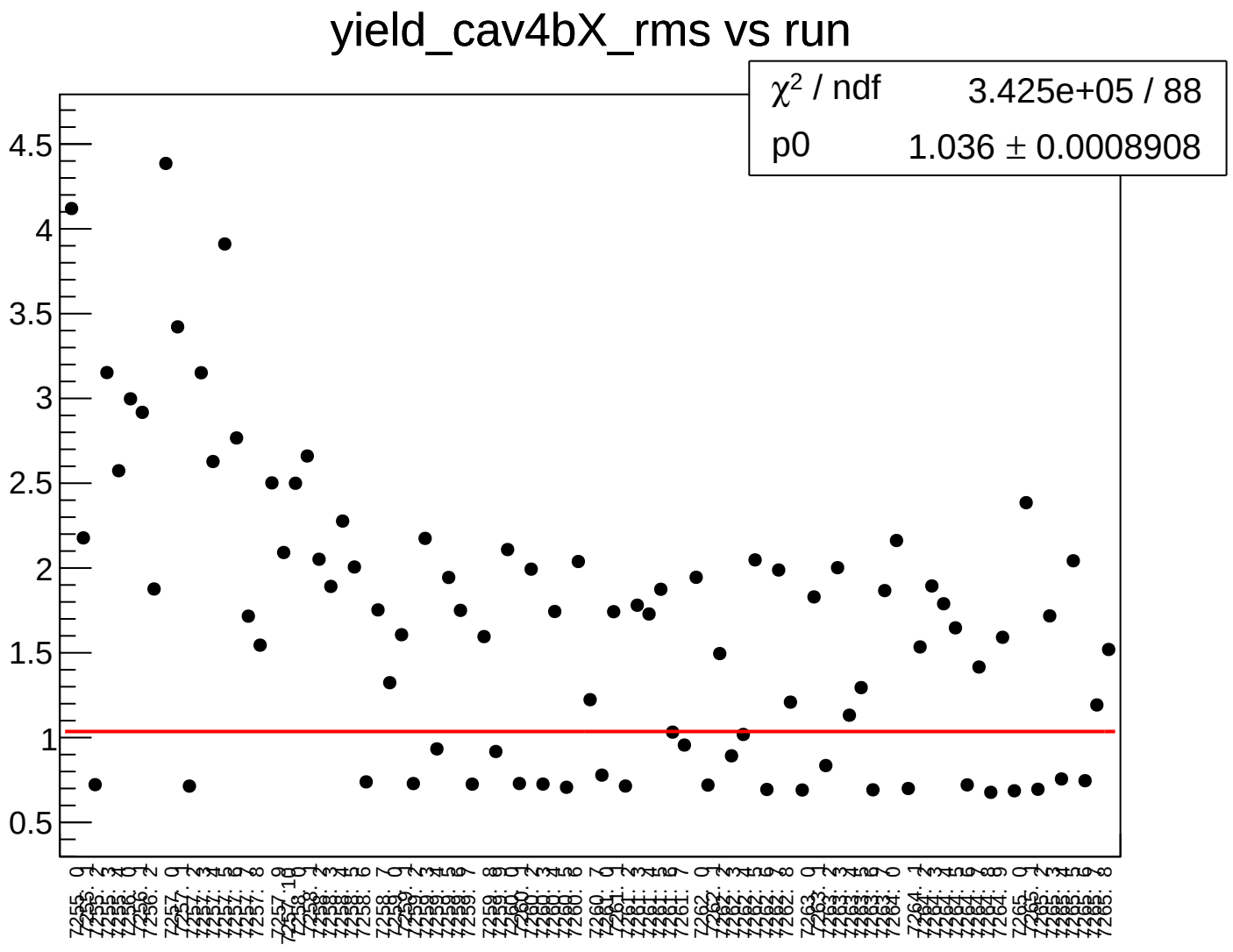

diff_bpmtargetdiffY_mean vs run
χ² / ndf 81.94 / 88
p0 1.183 ± 1.032
pull
Entries 89
Mean −581.4
Std Dev 0

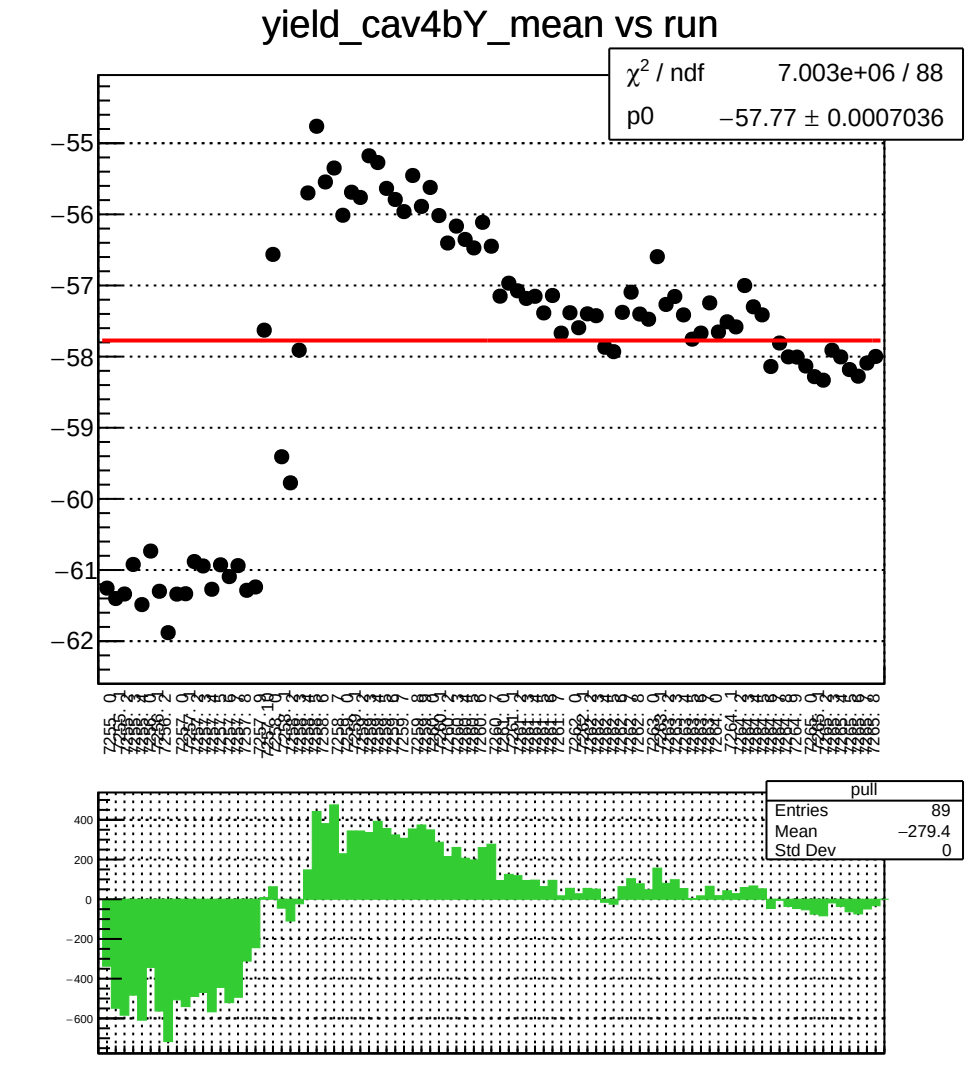

pull1D
Entries 89
Mean 0.006847
Std Dev 0.9595

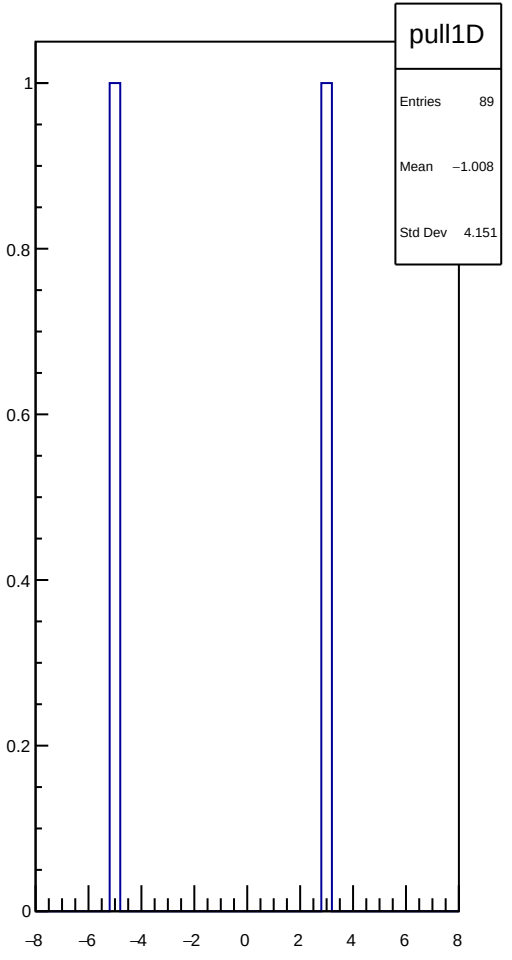

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.788e+04 / 88
p0 945.4 ± 0.73
1200
1100
1000
900
800
700
600

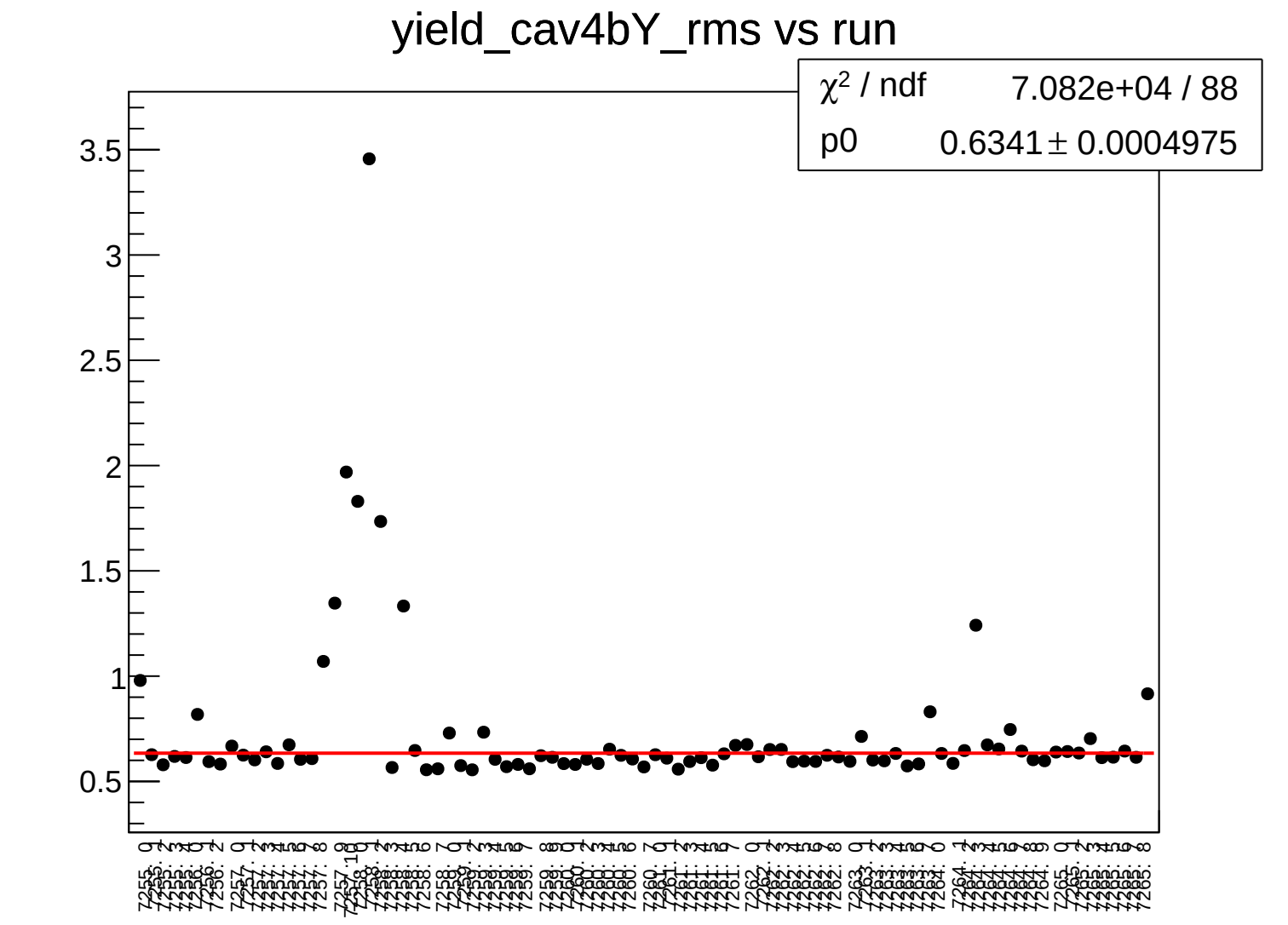

yield_cav4bX_mean vs run
χ² / ndf 2.979e+06 / 88
p0 −25.4 ± 0.00126
pull
Entries 89
Mean −672
Std Dev 0

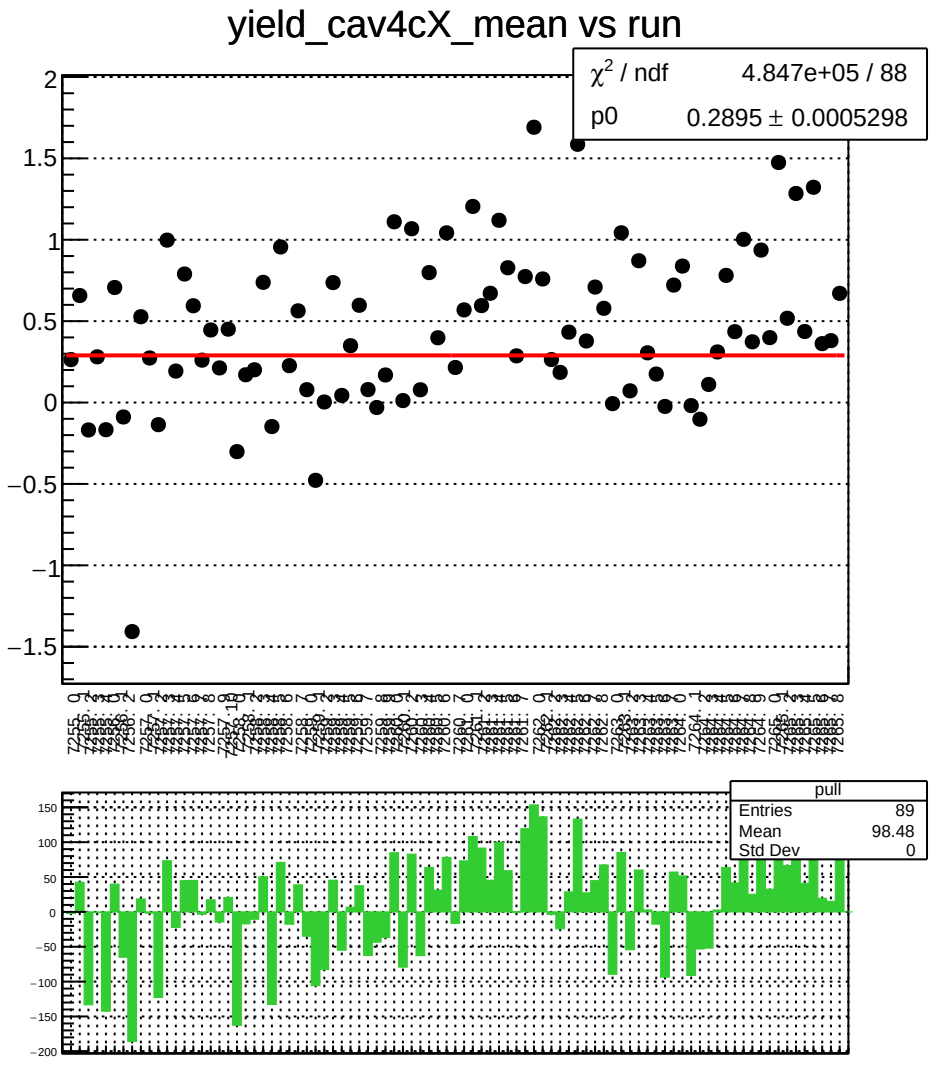

pull1D
Entries 89
Mean 0.1517
Std Dev 0

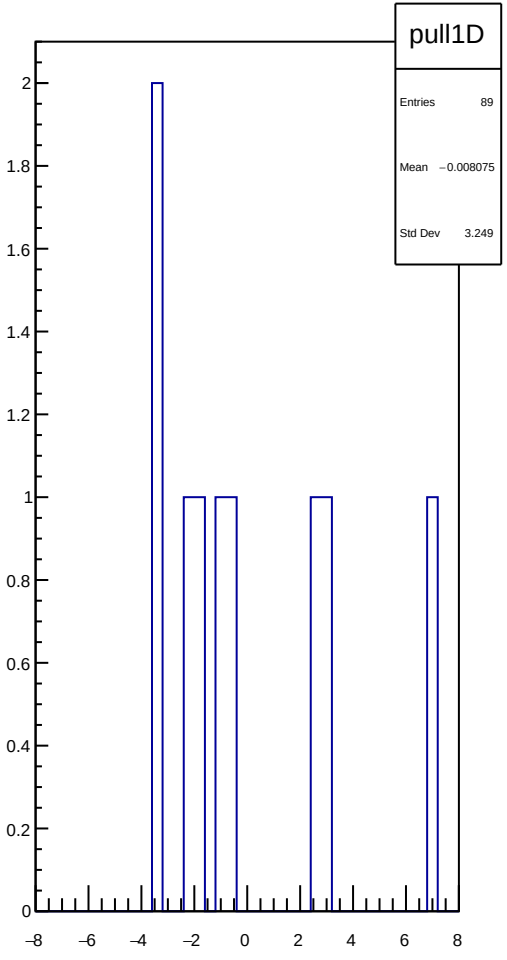

yield_cav4bX_rms vs run
χ² / ndf 3.425e+05 / 88
p0 1.036 ± 0.0008908
4.5
4
3.5
3
2.5
2
1.5
1
0.5

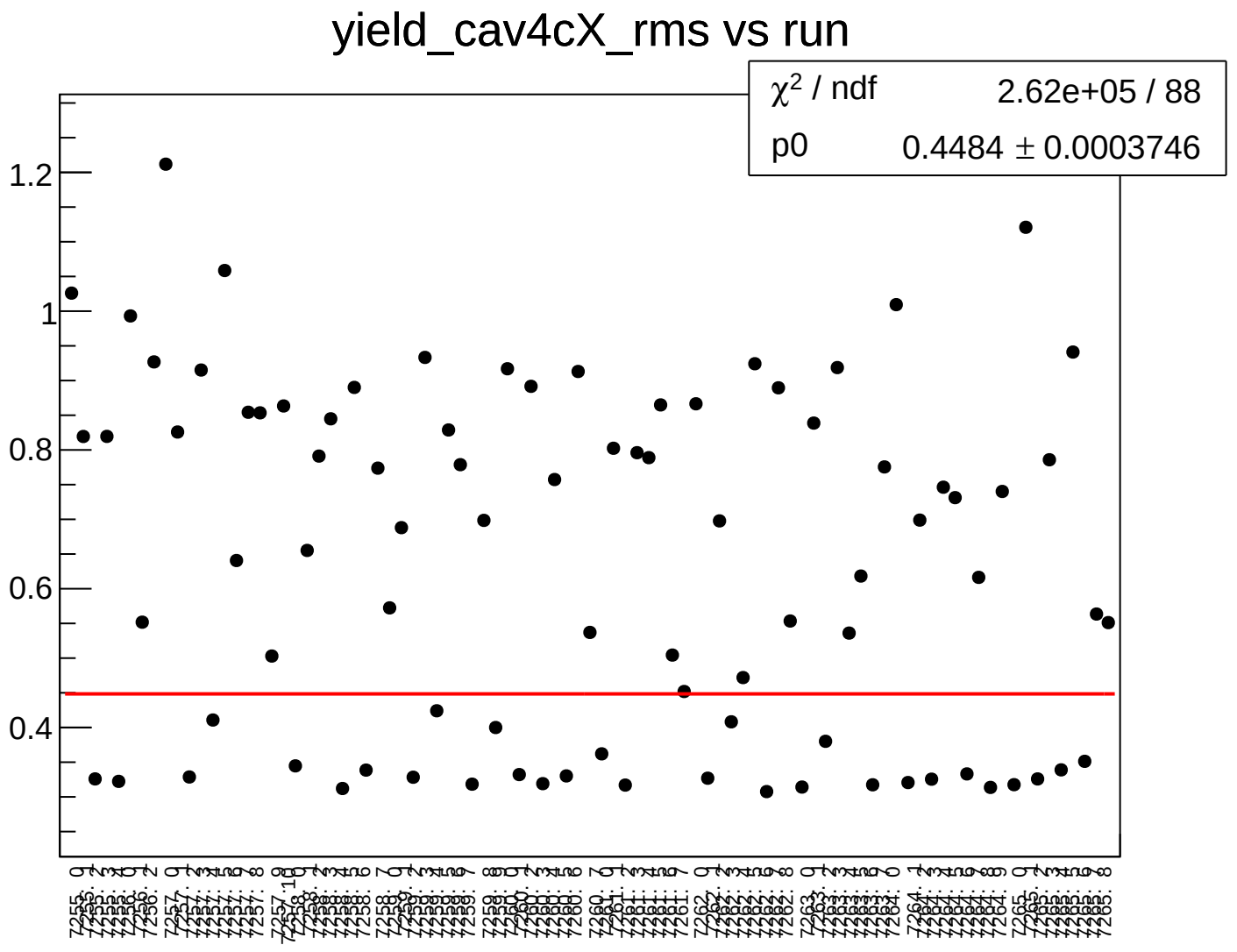

yield_cav4bY_mean vs run
χ² / ndf 7.003e+06 / 88
p0 −57.77 ± 0.0007036
−55
−56
−57
−58
−59
−60
−61
−62
pull
Entries 89
Mean −279.4
Std Dev 0
400
200
0
−200
−400
−600

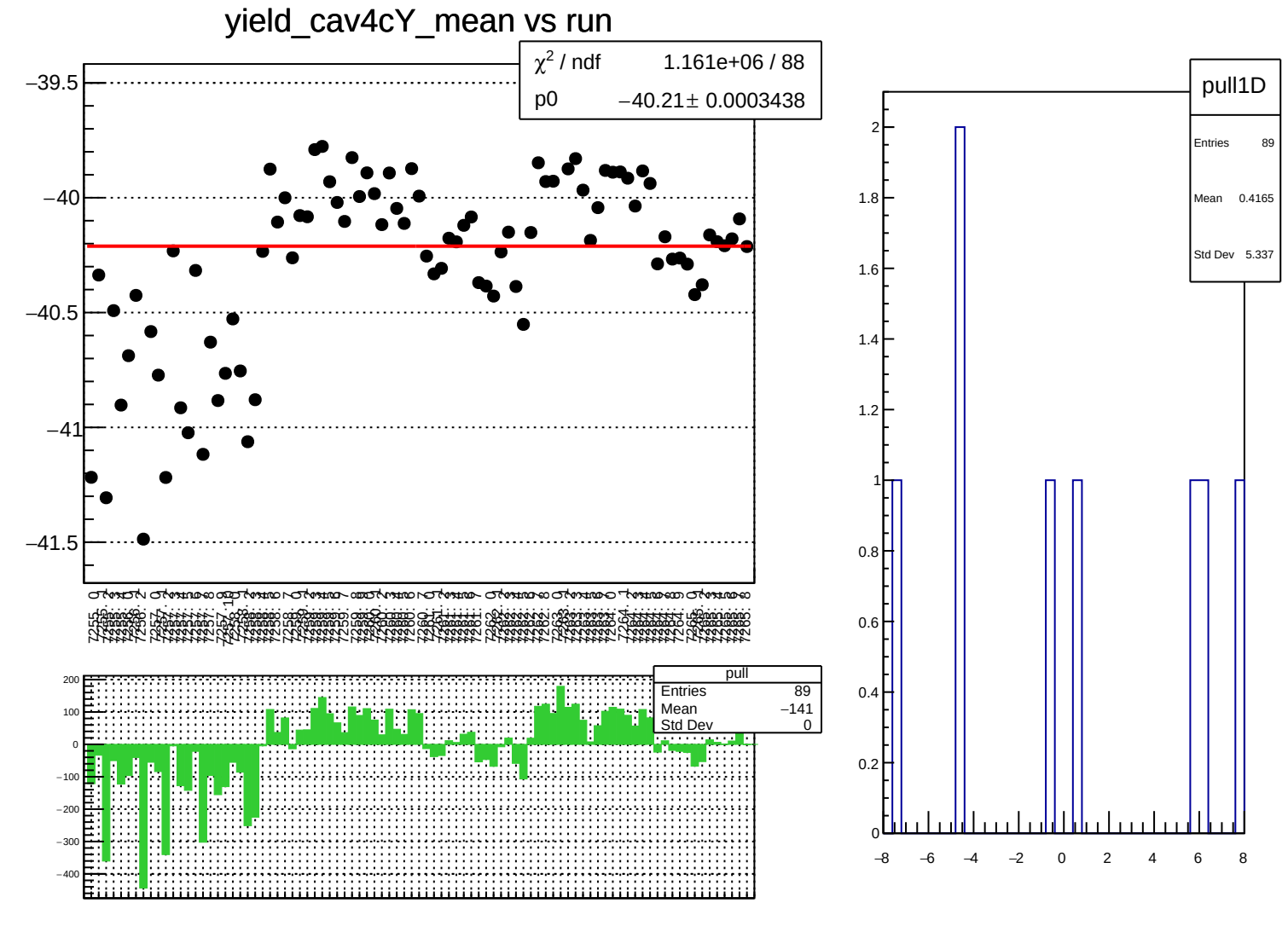

pull1D
Entries 89
Mean −1.008
Std Dev 4.151
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

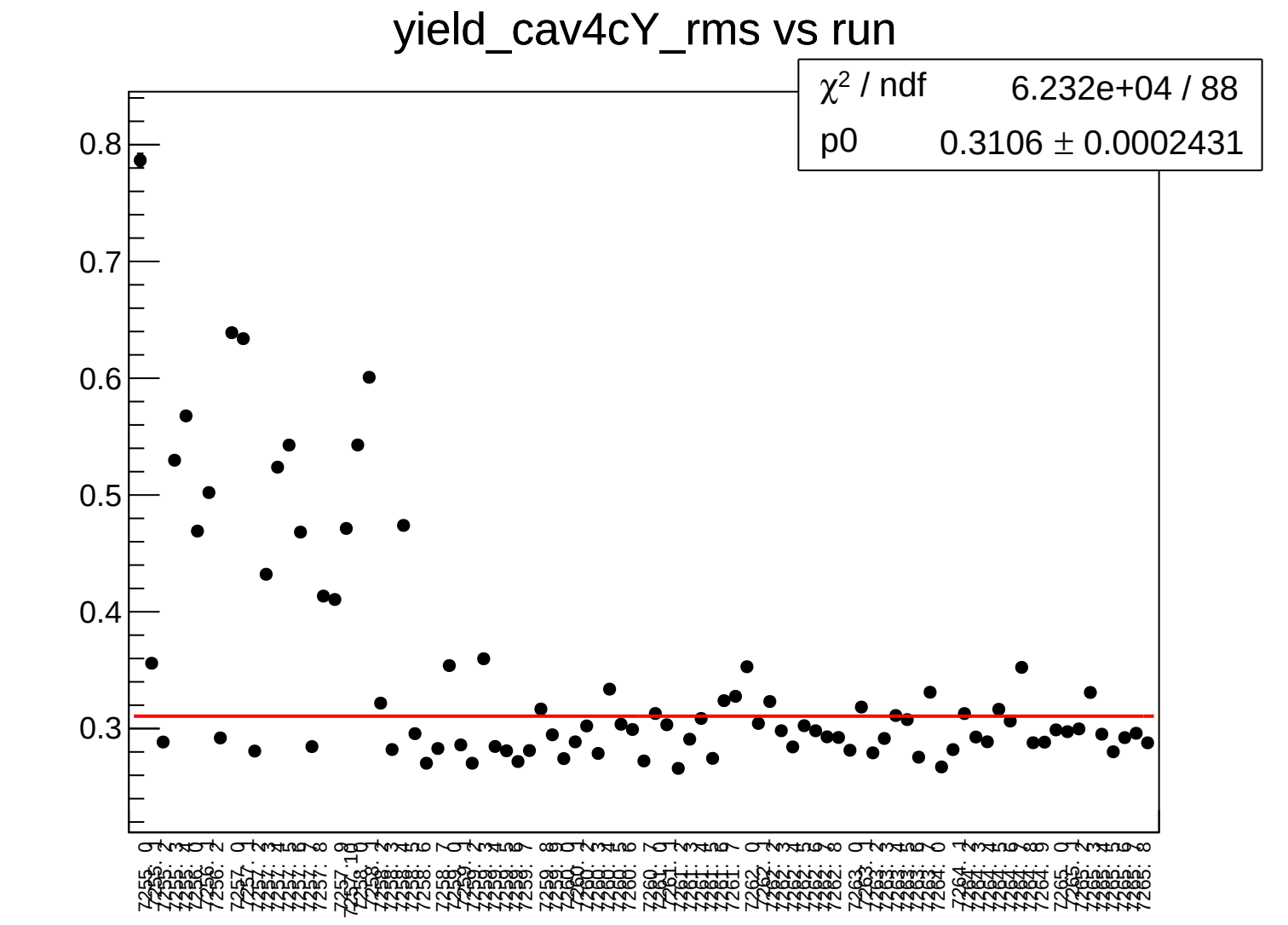

yield_cav4bY_rms vs run
χ² / ndf 7.082e+04 / 88
p0 0.6341 ± 0.0004975
3.5
3
2.5
2
1.5
1
0.5

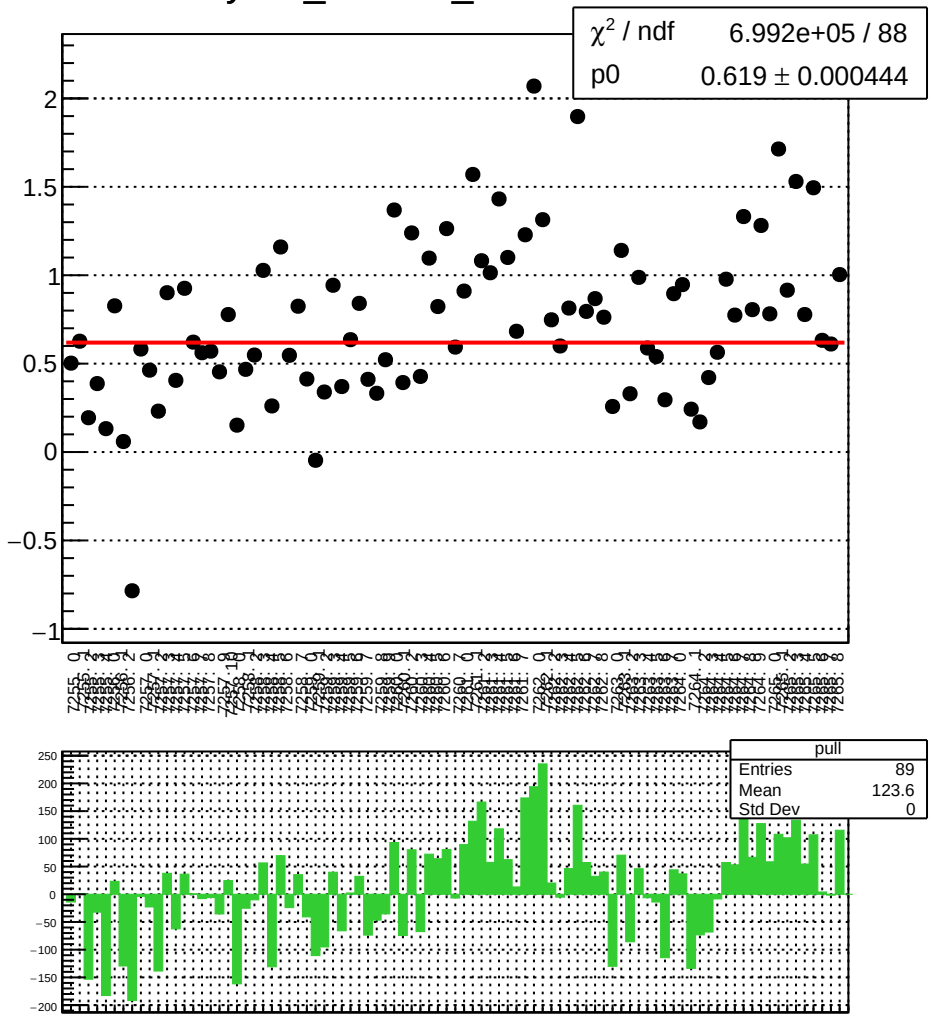

yield_cav4cX_mean vs run
χ² / ndf 4.847e+05 / 88
p0 0.2895 ± 0.0005298
pull
Entries 89
Mean 98.48
Std Dev 0

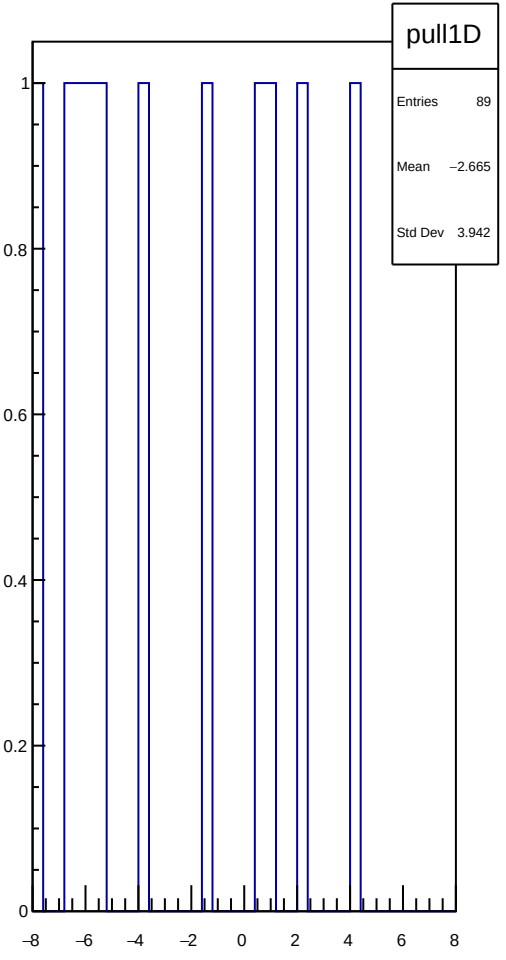

pull1D
Entries 89
Mean −0.008075
Std Dev 3.249

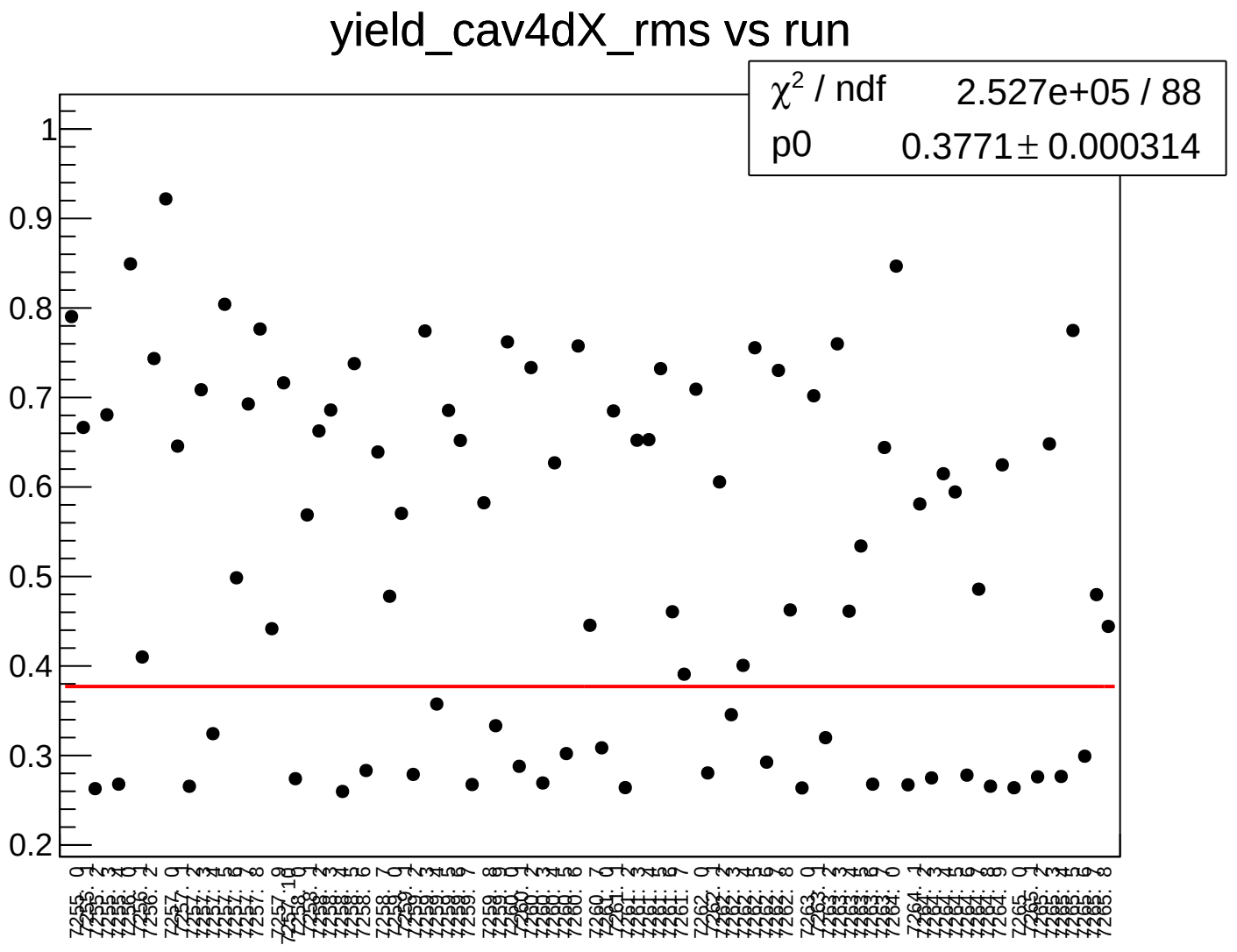

yield_cav4cX_rms vs run
χ² / ndf 2.62e+05 / 88
p0 0.4484 ± 0.0003746
1.2
1
0.8
0.6
0.4

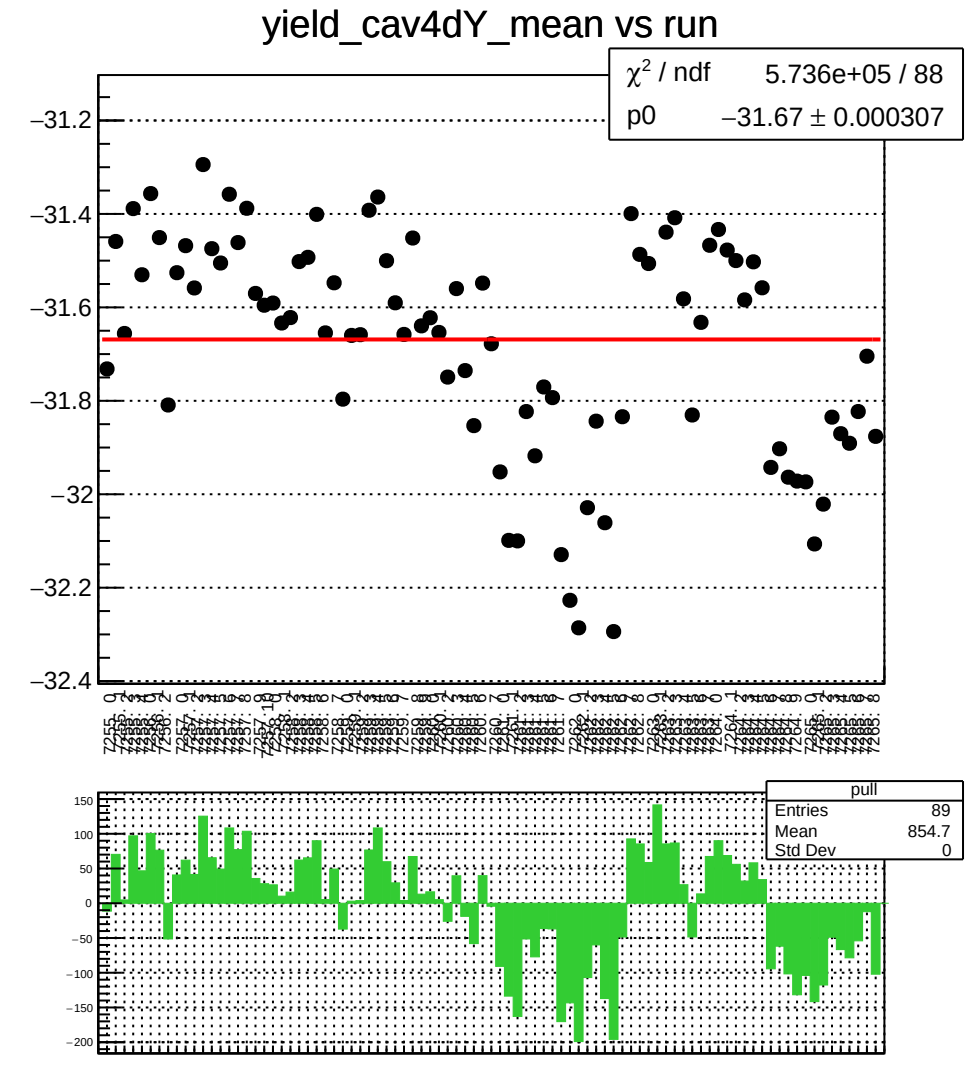

yield_cav4cY_mean vs run
χ² / ndf 1.161e+06 / 88
p0 −40.21 ± 0.0003438
−39.5
−40
−40.5
−41
−41.5
pull
Entries 89
Mean −141
Std Dev 0
200
100
0
−100
−200
−300
−400
pull1D
Entries 89
Mean 0.4165
Std Dev 5.337
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

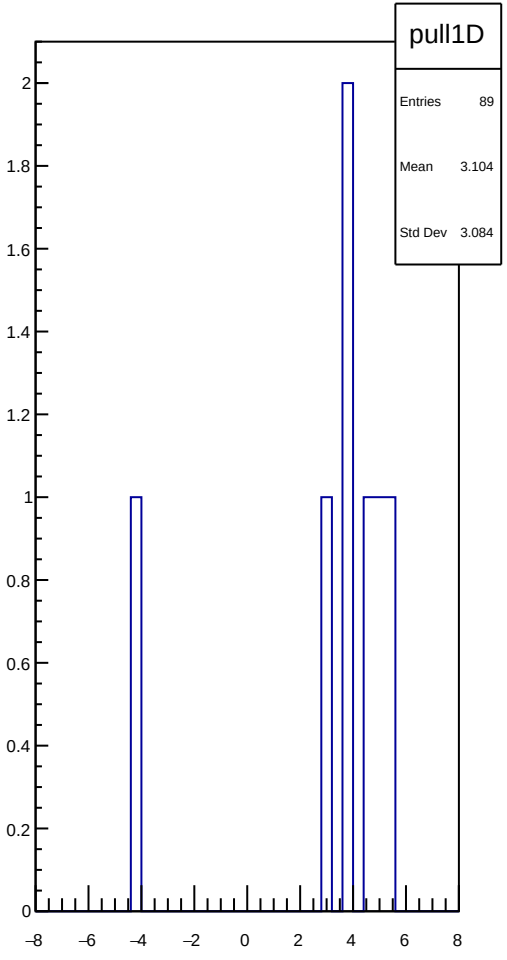

yield_cav4cY_rms vs run
χ² / ndf 6.232e+04 / 88
p0 0.3106 ± 0.0002431
0.8
0.7
0.6
0.5
0.4
0.3

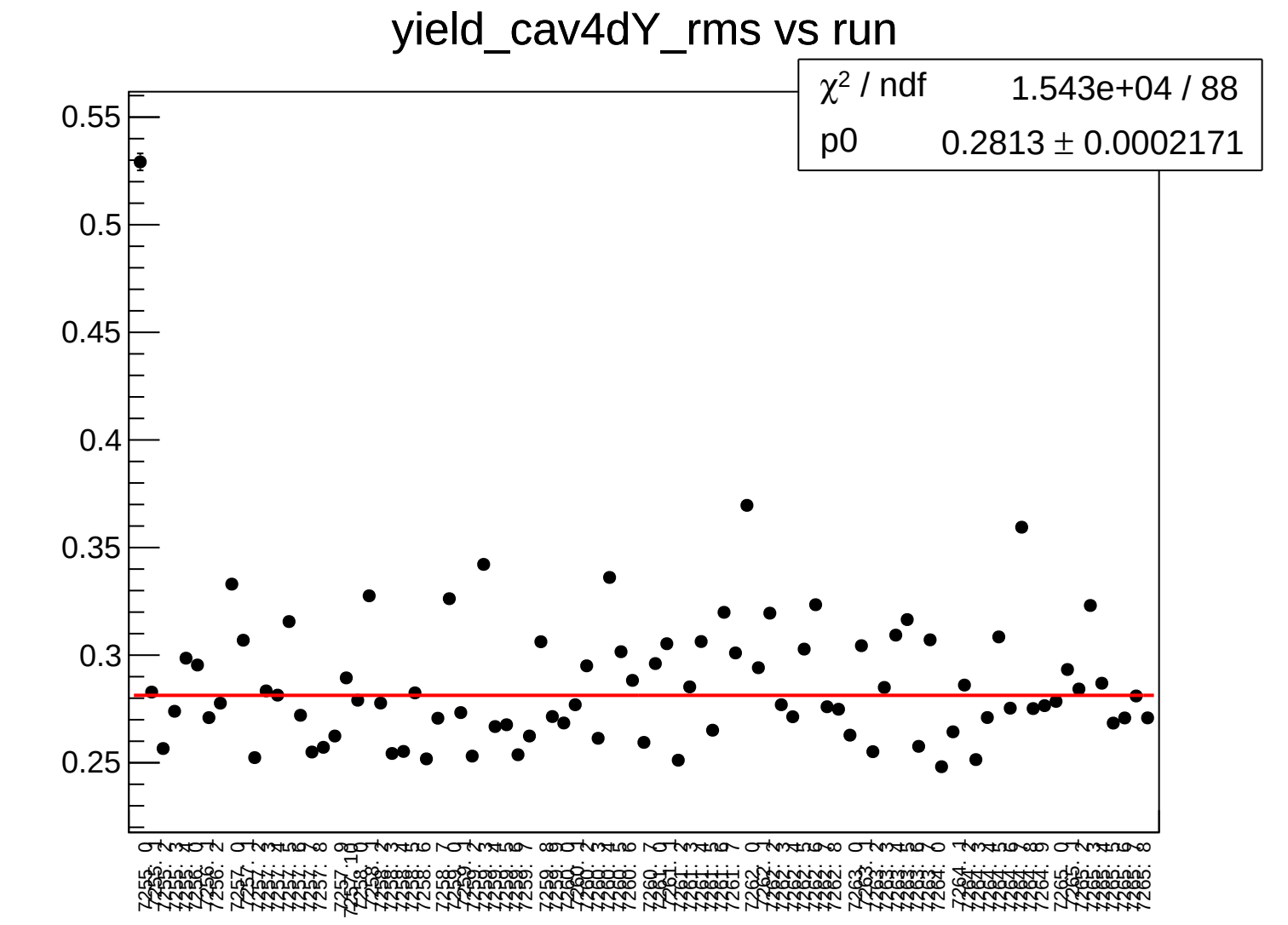

yield_cav4dX_mean vs run
χ² / ndf 6.992e+05 / 88
p0 0.619 ± 0.000444
pull
Entries 89
Mean 123.6
Std Dev 0

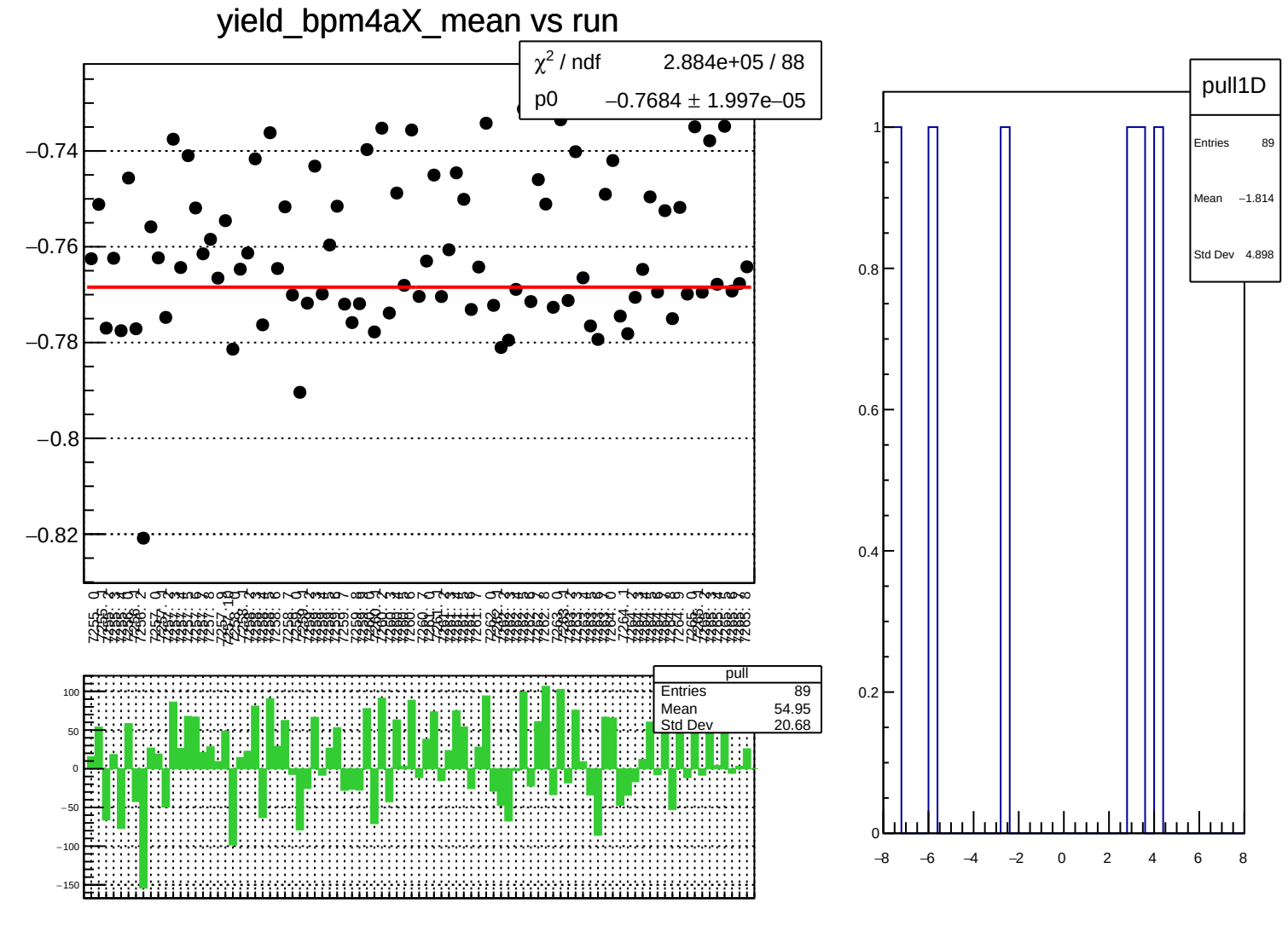

pull1D
Entries 89
Mean −2.665
Std Dev 3.942

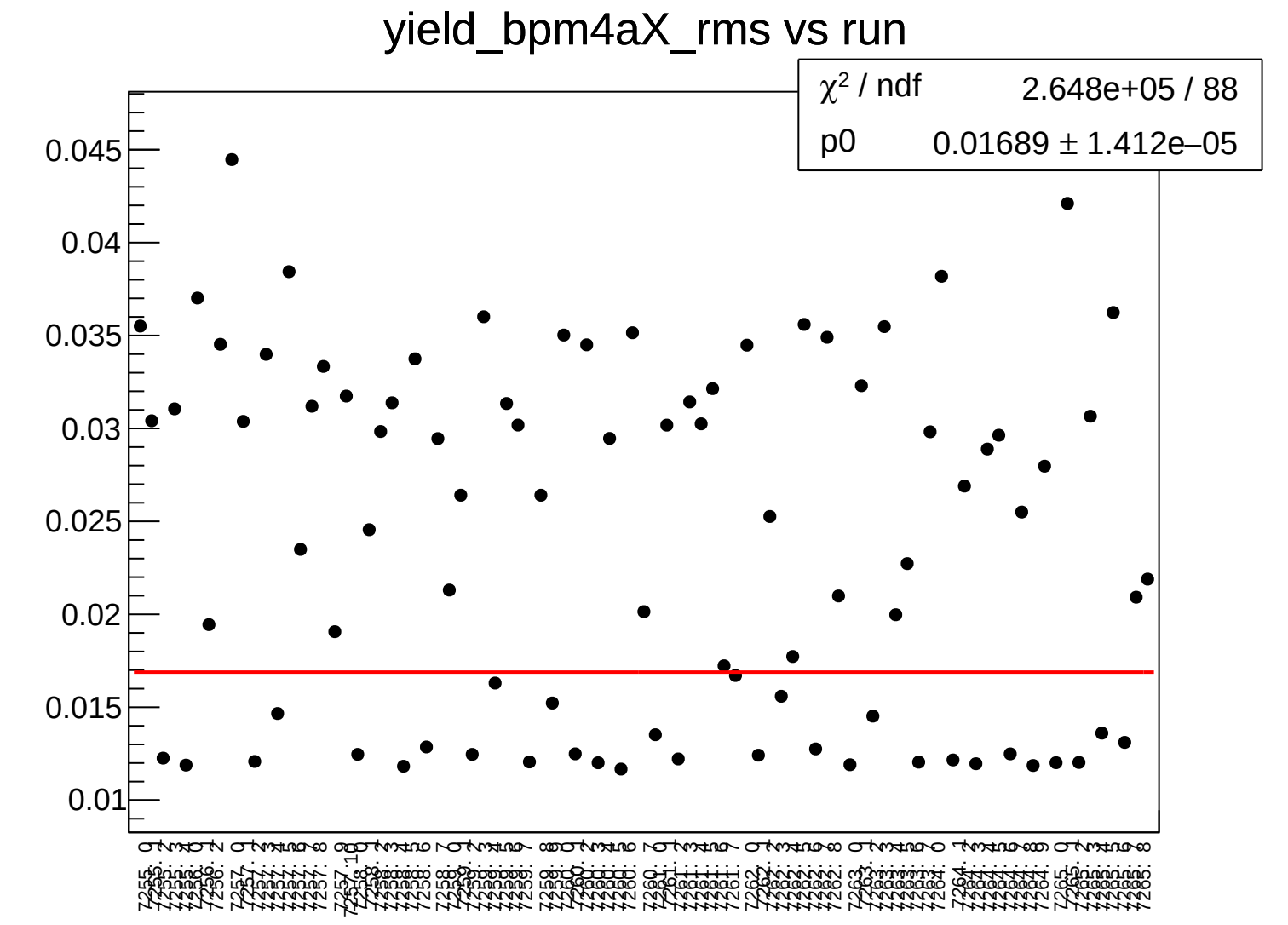

yield_cav4dX_rms vs run
χ² / ndf 2.527e+05 / 88
p0 0.3771 ± 0.000314
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

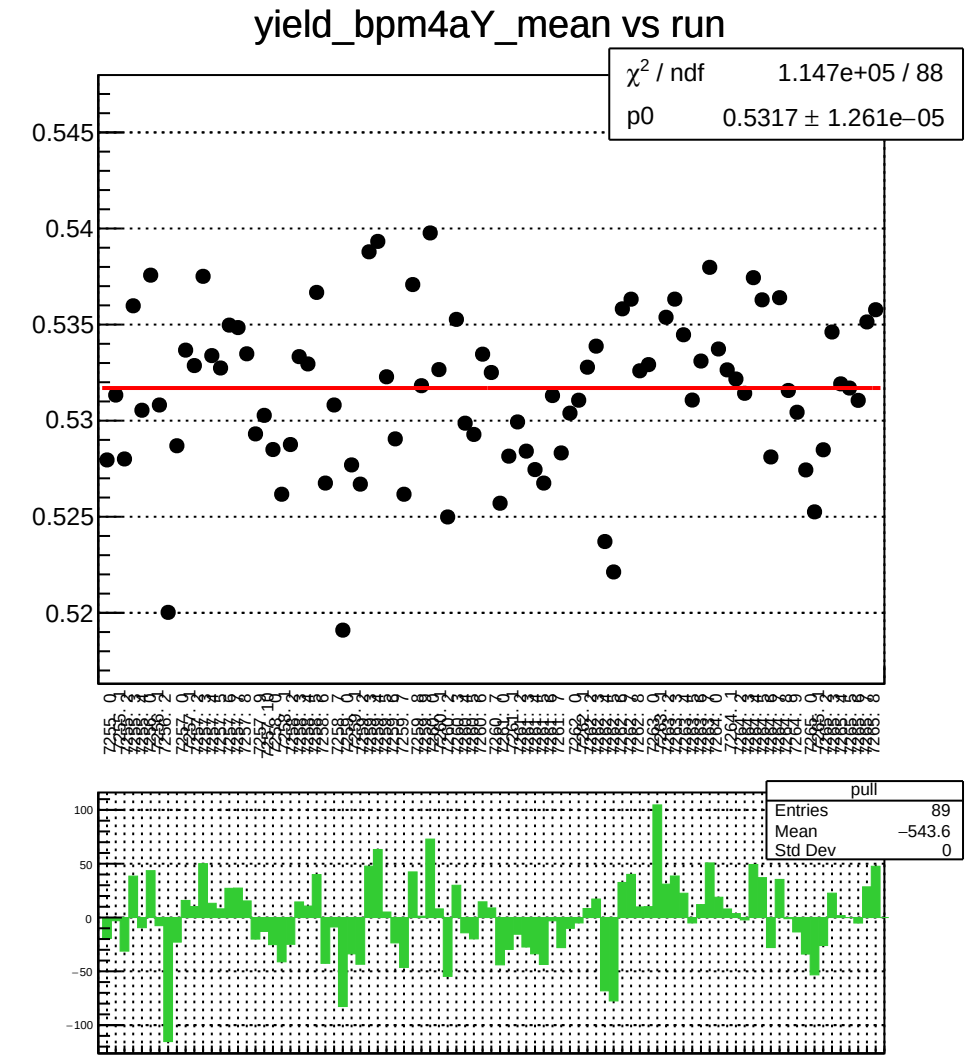

yield_cav4dY_mean vs run
χ² / ndf 5.736e+05 / 88
p0 −31.67 ± 0.000307
−31.2
−31.4
−31.6
−31.8
−32
−32.2
−32.4
pull
Entries 89
Mean 854.7
Std Dev 0
150
100
50
0
−50
−100
−150
−200

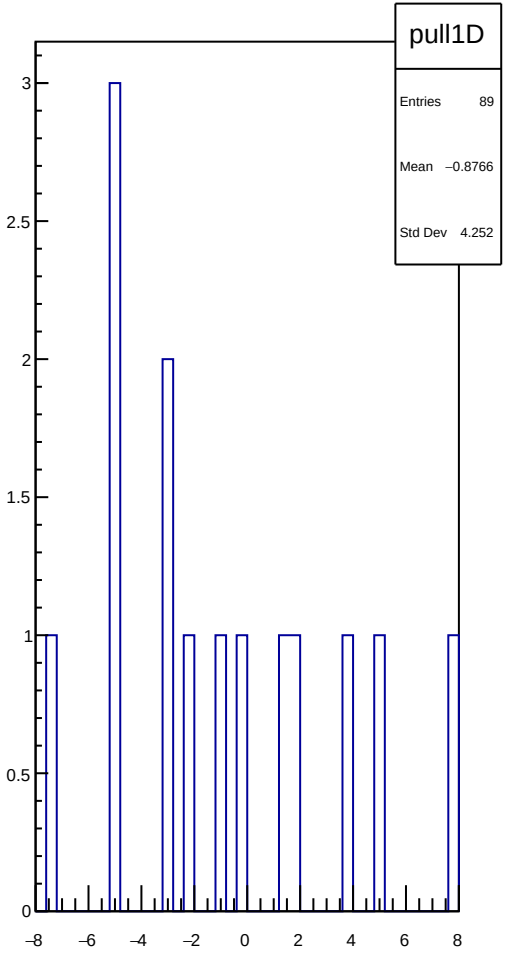

pull1D
Entries 89
Mean 3.104
Std Dev 3.084
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

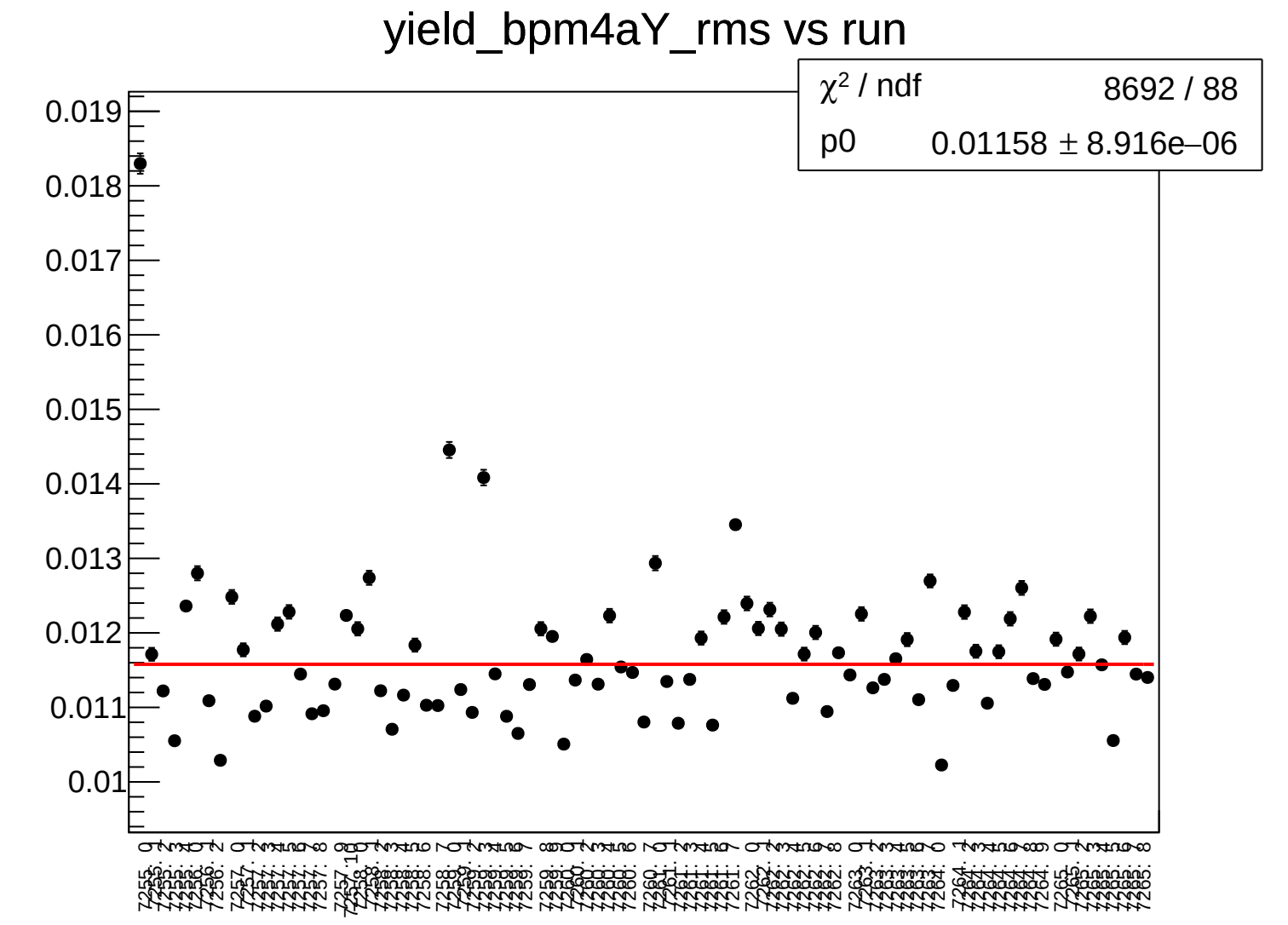

yield_cav4dY_rms vs run
χ² / ndf 1.543e+04 / 88
p0 0.2813 ± 0.0002171
0.55
0.5
0.45
0.4
0.35
0.3
0.25

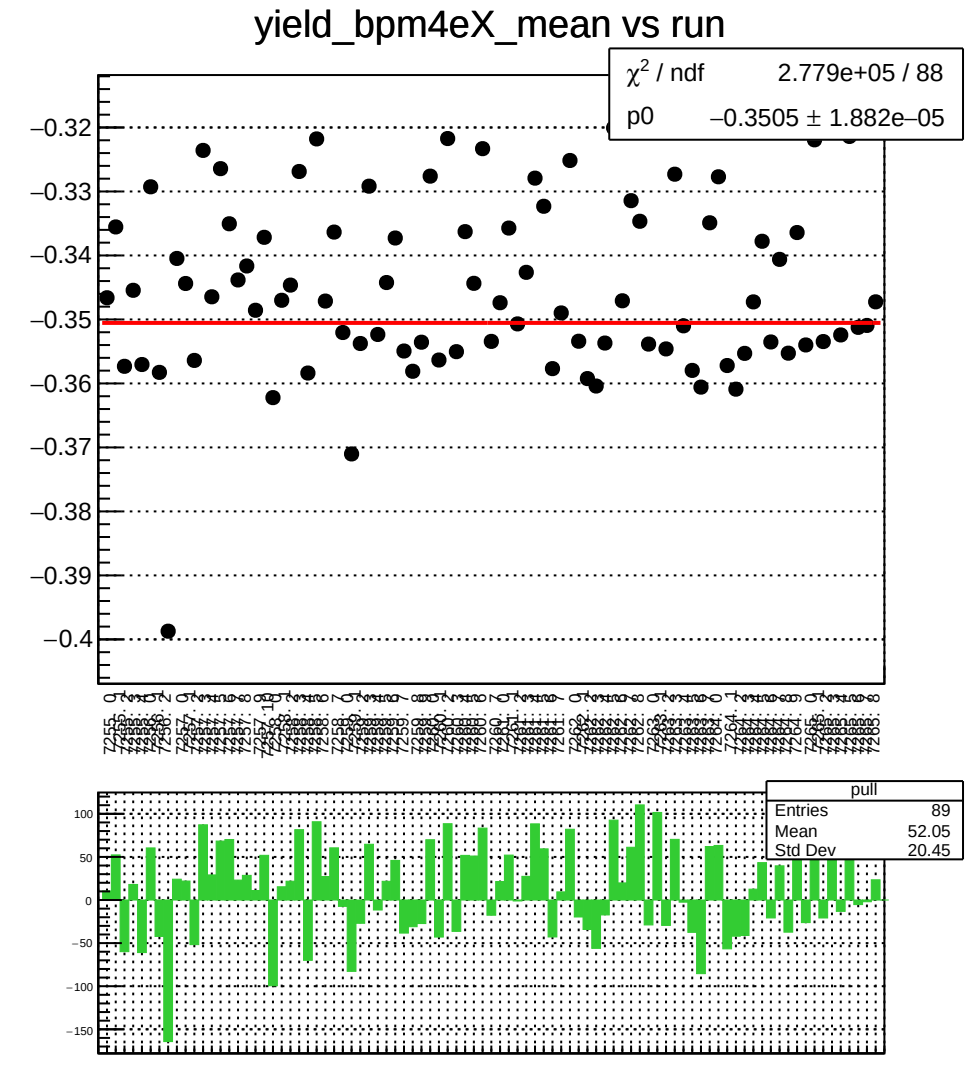

yield_bpm4aX_mean vs run
χ² / ndf 2.884e+05 / 88
p0 −0.7684 ± 1.997e−05
−0.74
−0.76
−0.78
−0.8
−0.82
pull
Entries 89
Mean 54.95
Std Dev 20.68
100
50
0
−50
−100
−150
pull1D
Entries 89
Mean −1.814
Std Dev 4.898
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

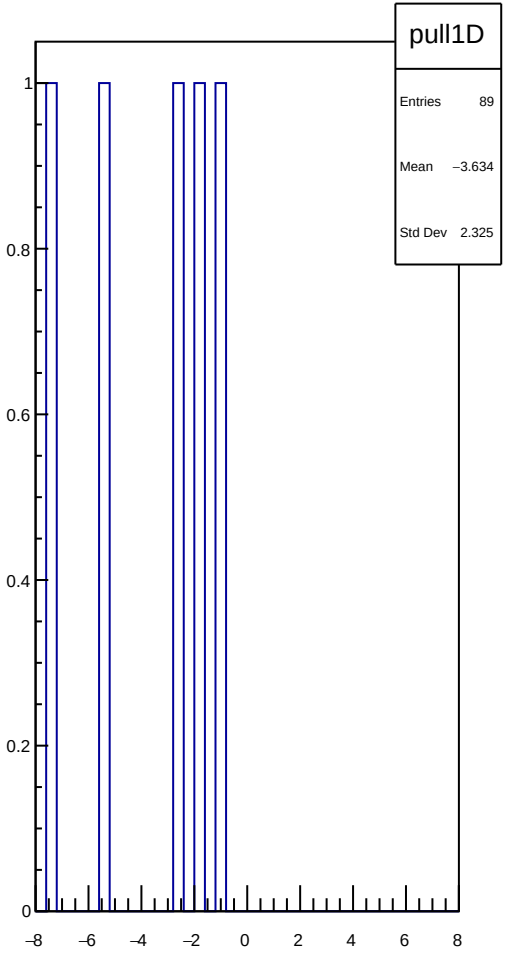

yield_bpm4aX_rms vs run
χ² / ndf 2.648e+05 / 88
p0 0.01689 ± 1.412e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

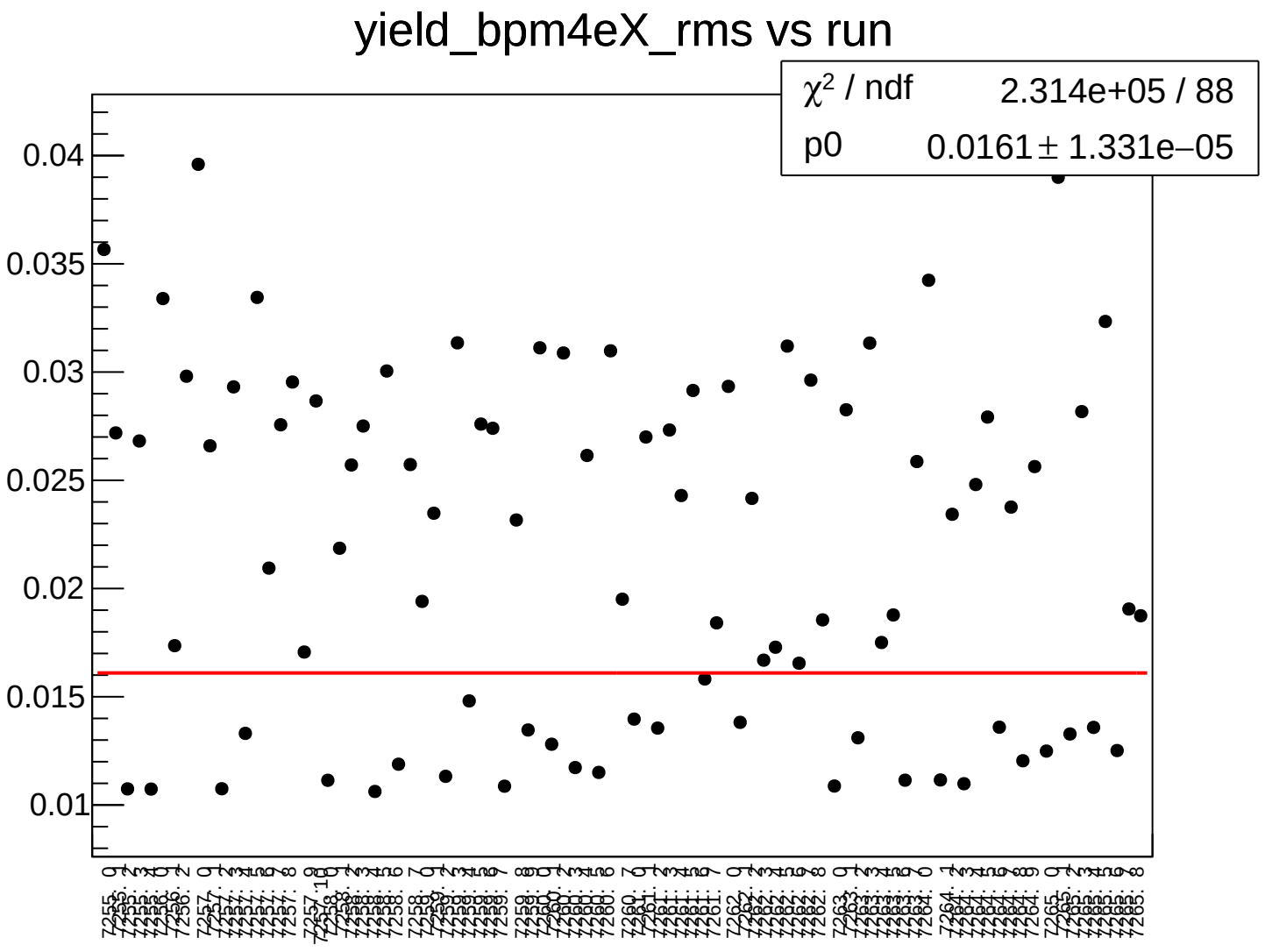

yield_bpm4aY_mean vs run
χ² / ndf 1.147e+05 / 88
p0 0.5317 ± 1.261e−05
0.545
0.54
0.535
0.53
0.525
0.52
pull
Entries 89
Mean −543.6
Std Dev 0
100
50
0
−50
−100

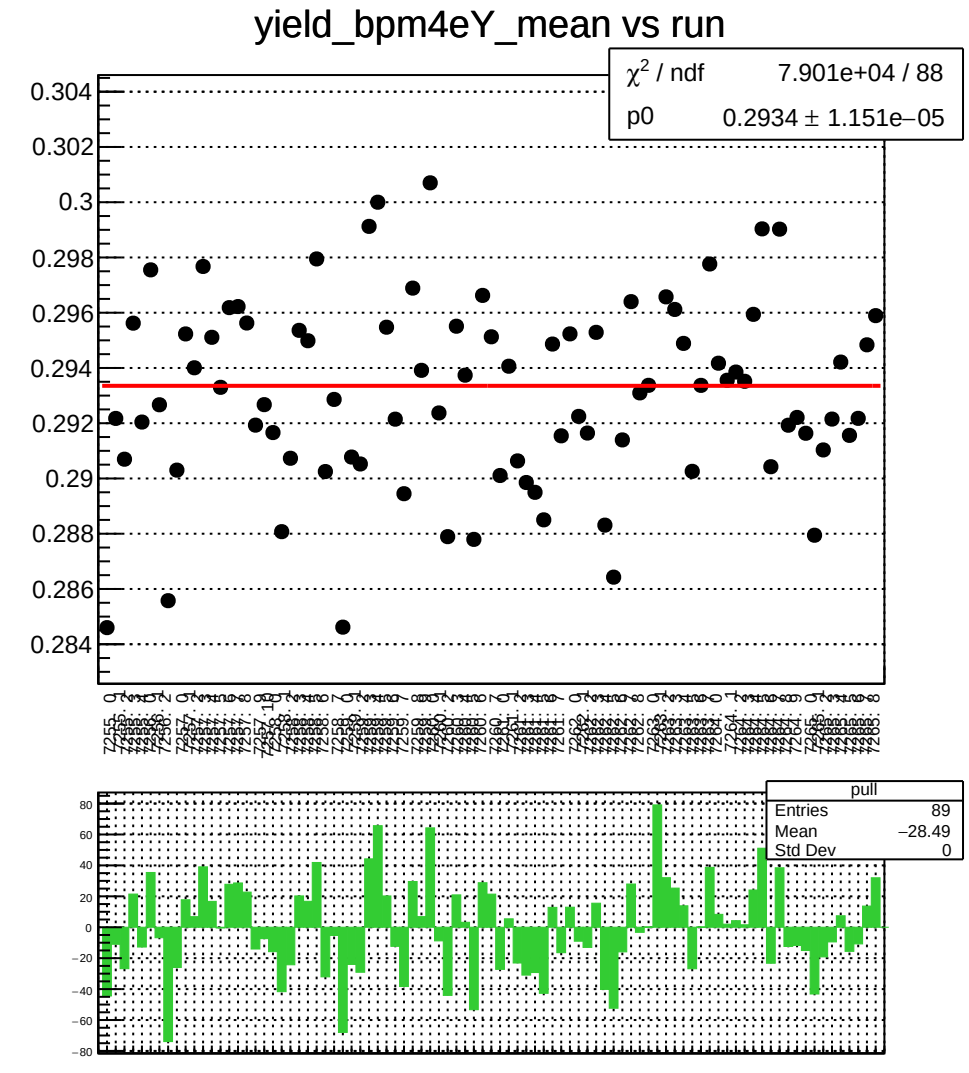

pull1D
Entries 89
Mean −0.8766
Std Dev 4.252
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

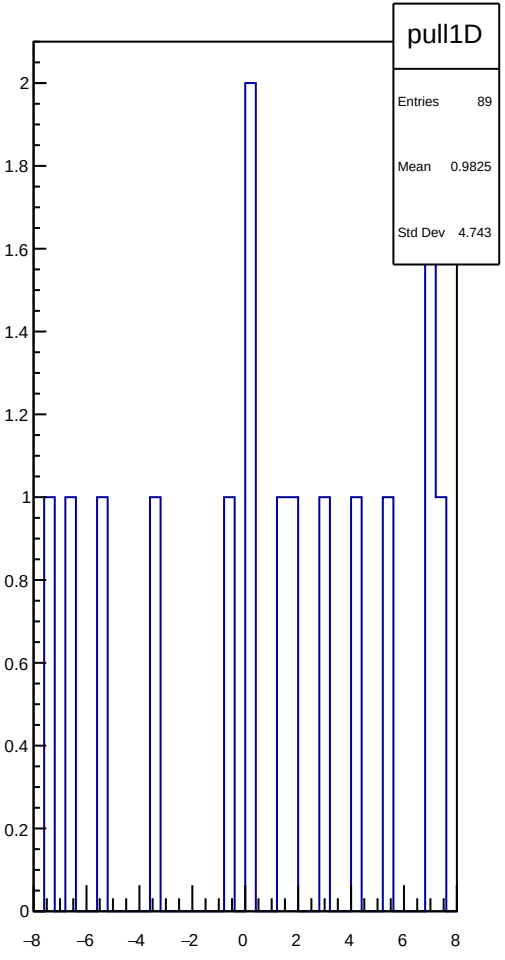

yield_bpm4aY_rms vs run
χ² / ndf 8692 / 88
p0 0.01158 ± 8.916e–06
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

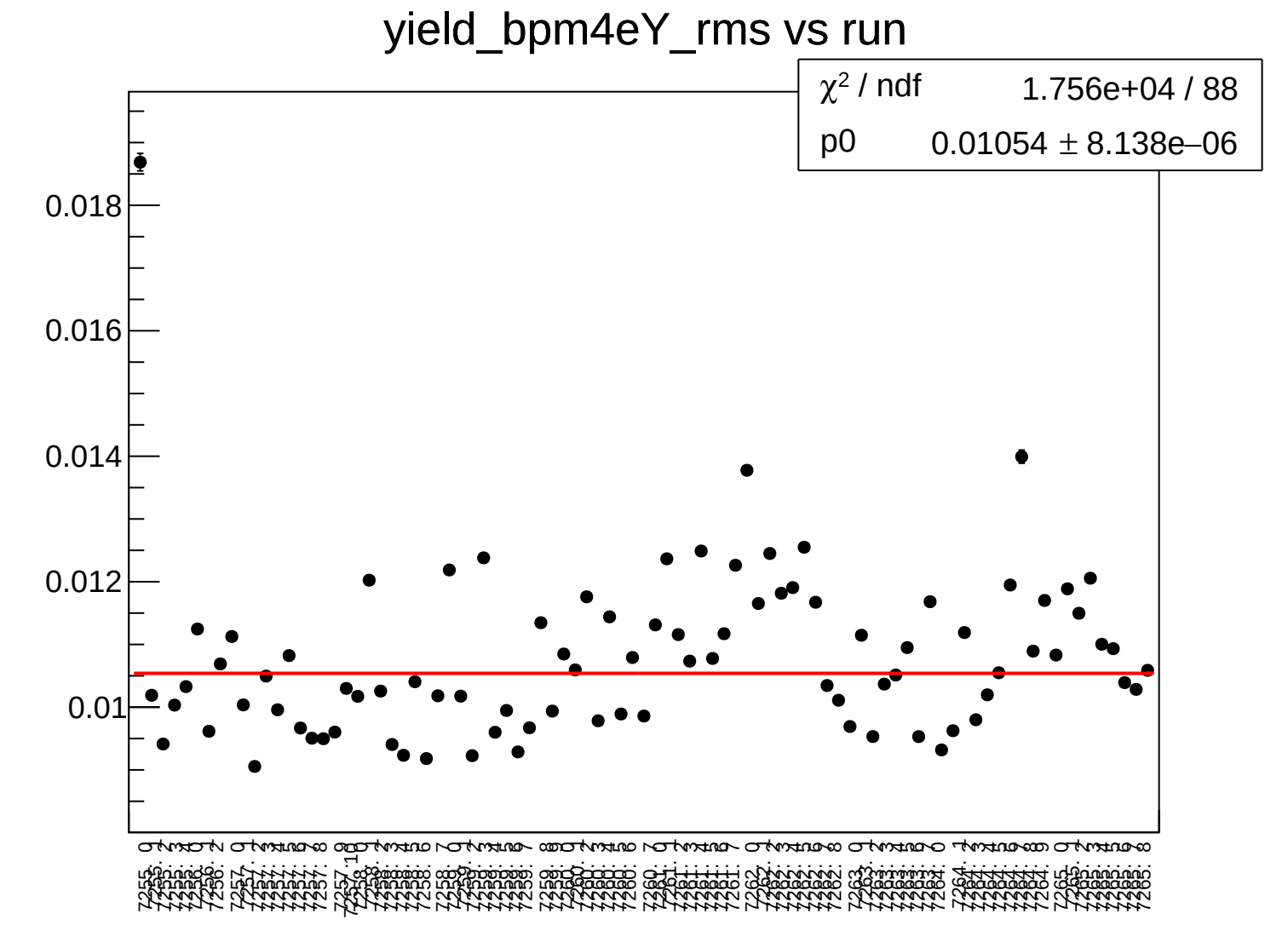

yield_bpm4eX_mean vs run
χ² / ndf 2.779e+05 / 88
p0 −0.3505 ± 1.882e−05
−0.32
−0.33
−0.34
−0.35
−0.36
−0.37
−0.38
−0.39
−0.4
pull
Entries 89
Mean 52.05
Std Dev 20.45
100
50
0
−50
−100
−150

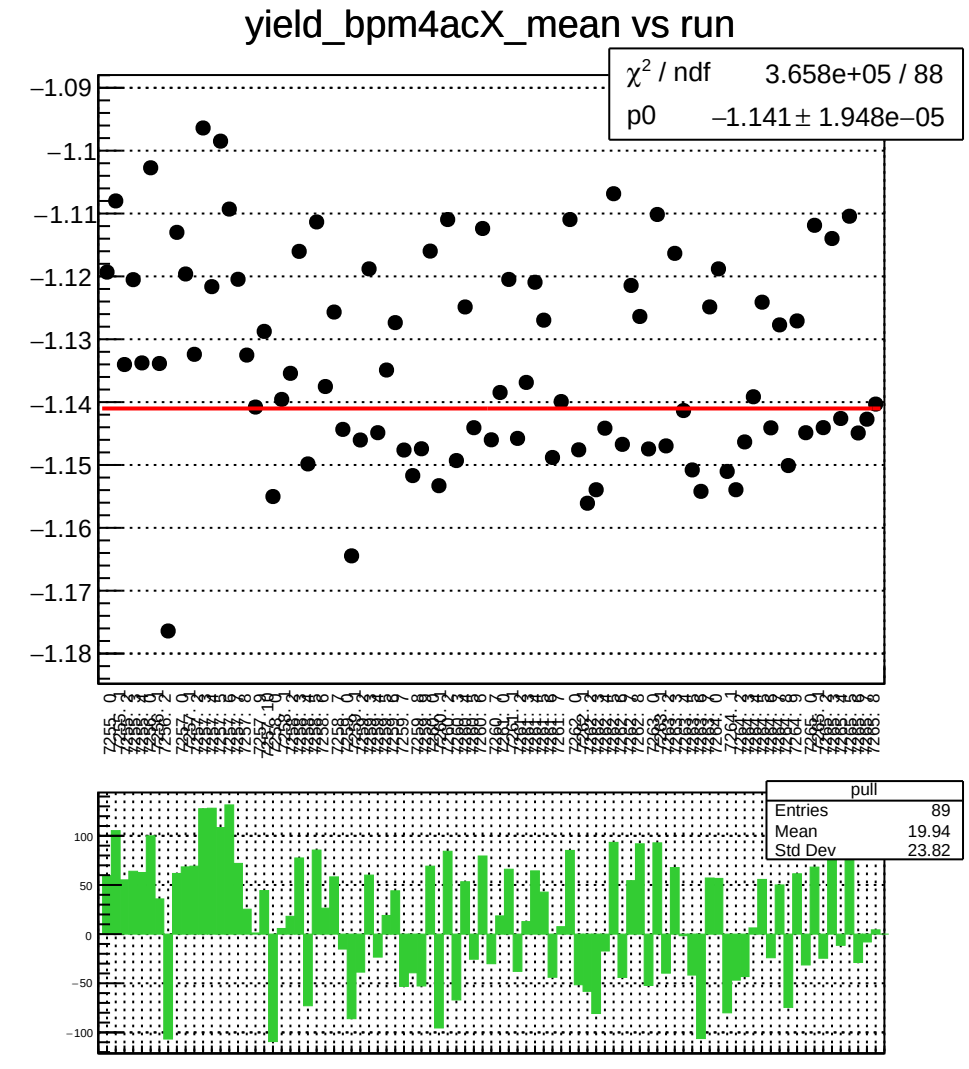

pull1D
Entries 89
Mean −3.634
Std Dev 2.325
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

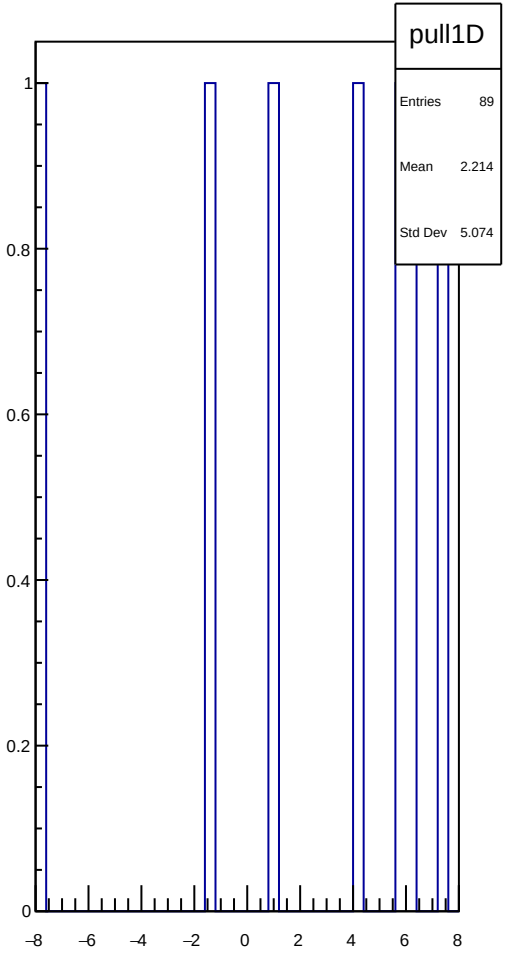

yield_bpm4eX_rms vs run
χ² / ndf 2.314e+05 / 88
p0 0.0161 ± 1.331e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

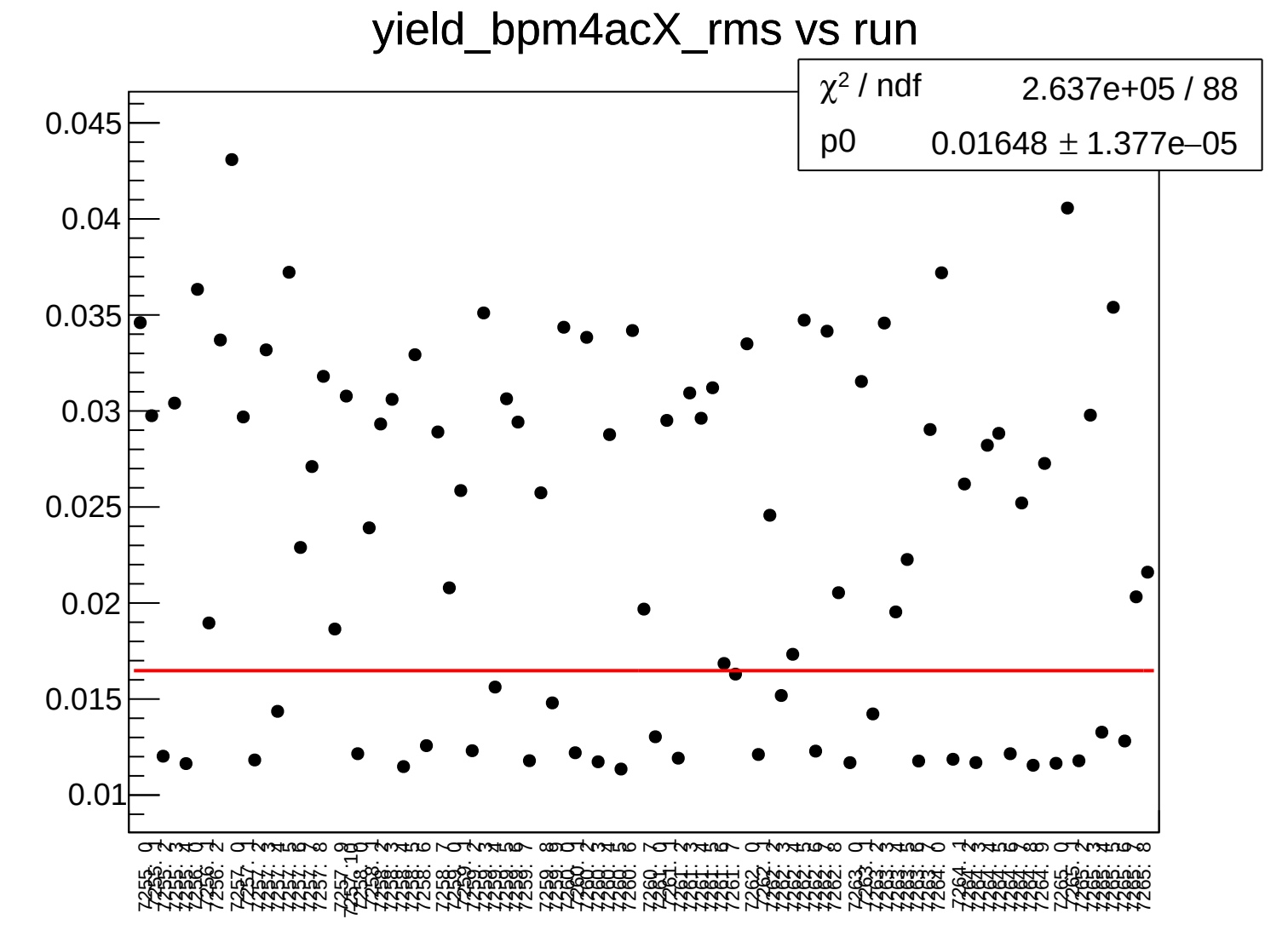

yield_bpm4eY_mean vs run
χ² / ndf 7.901e+04 / 88
p0 0.2934 ± 1.151e−05
0.304
0.302
0.3
0.298
0.296
0.294
0.292
0.29
0.288
0.286
0.284
pull
Entries 89
Mean −28.49
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

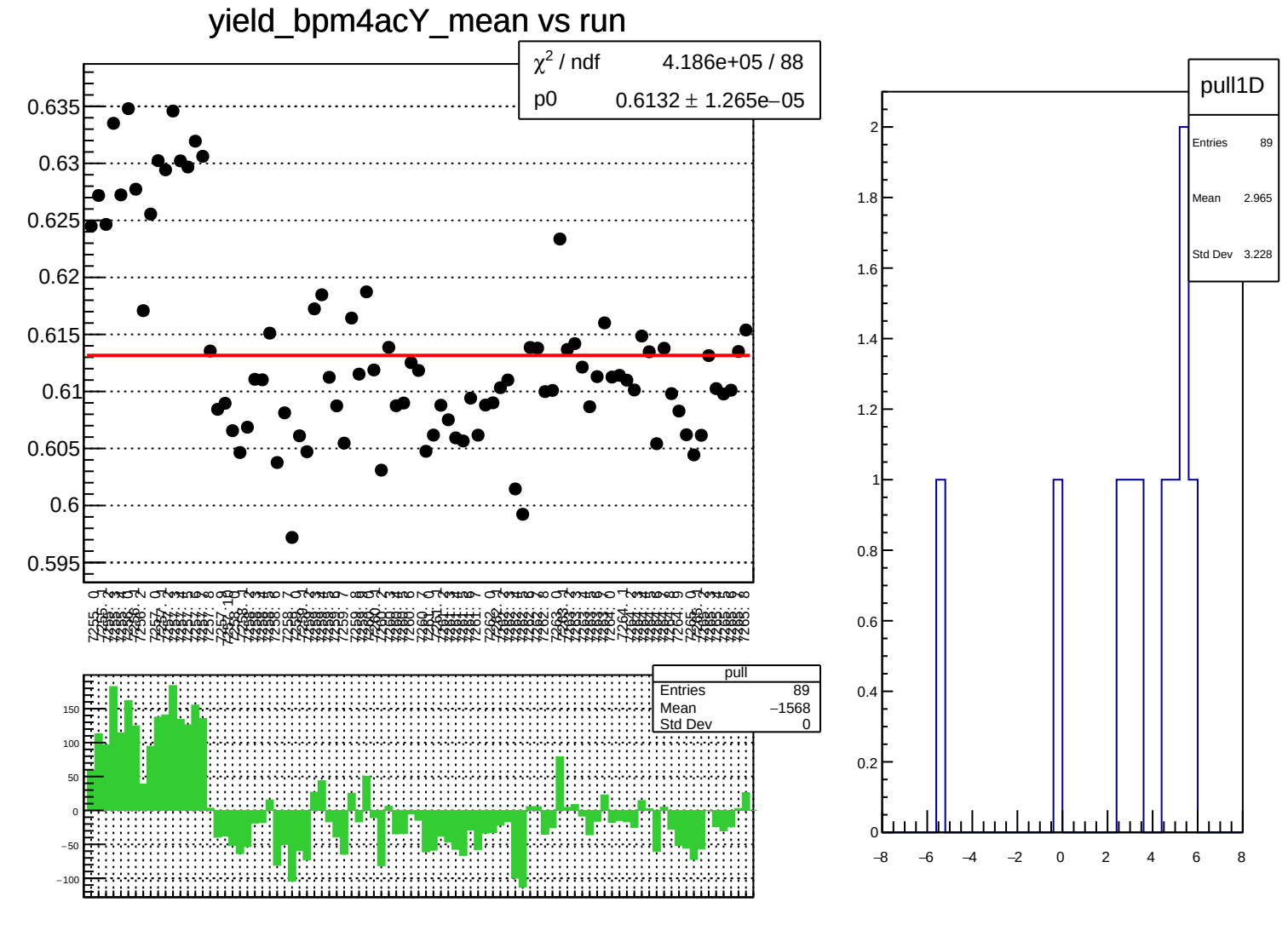

pull1D
Entries 89
Mean 0.9825
Std Dev 4.743
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

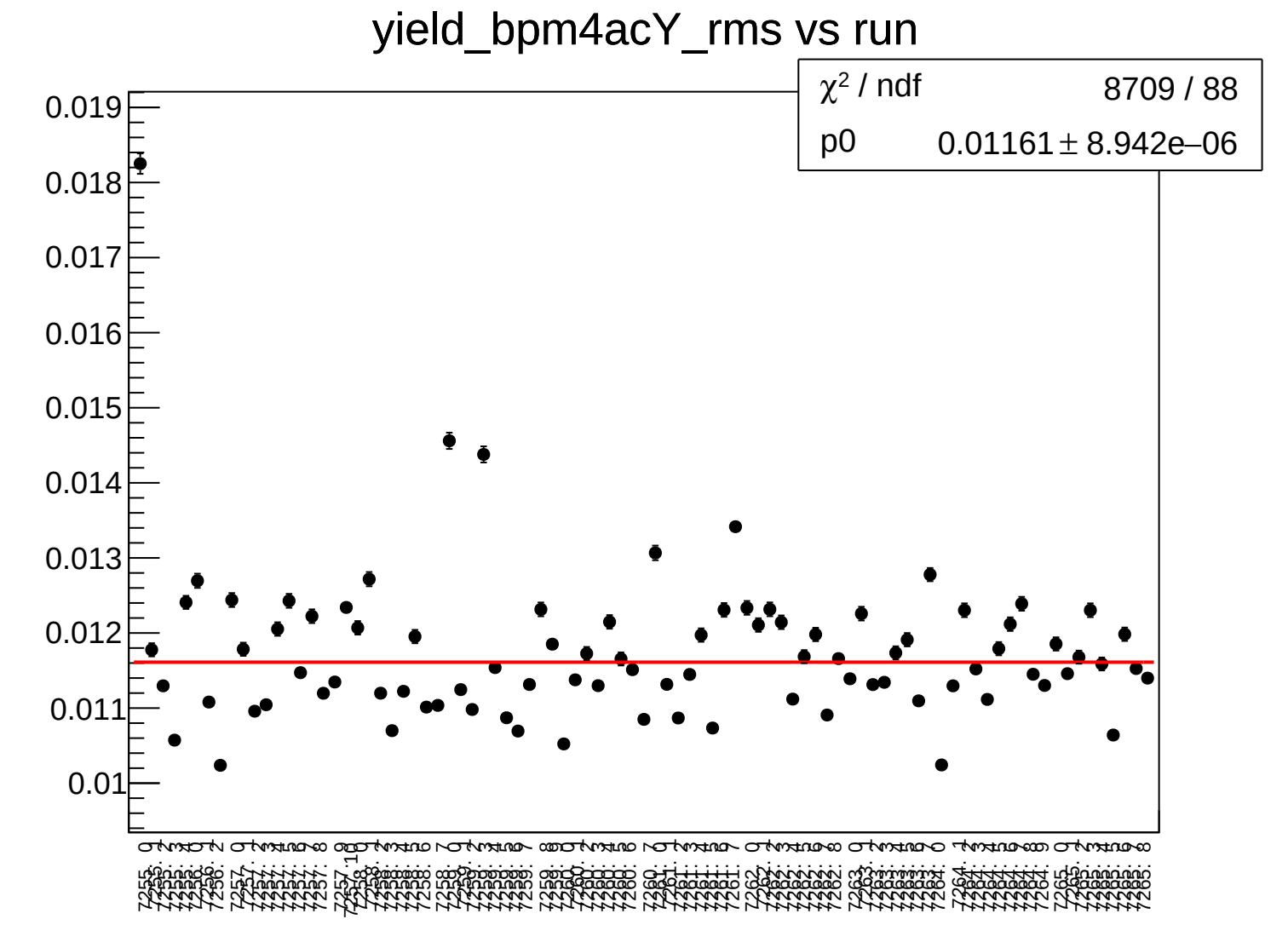

yield_bpm4eY_rms vs run
χ² / ndf 1.756e+04 / 88
p0 0.01054 ± 8.138e–06
0.018
0.016
0.014
0.012
0.01

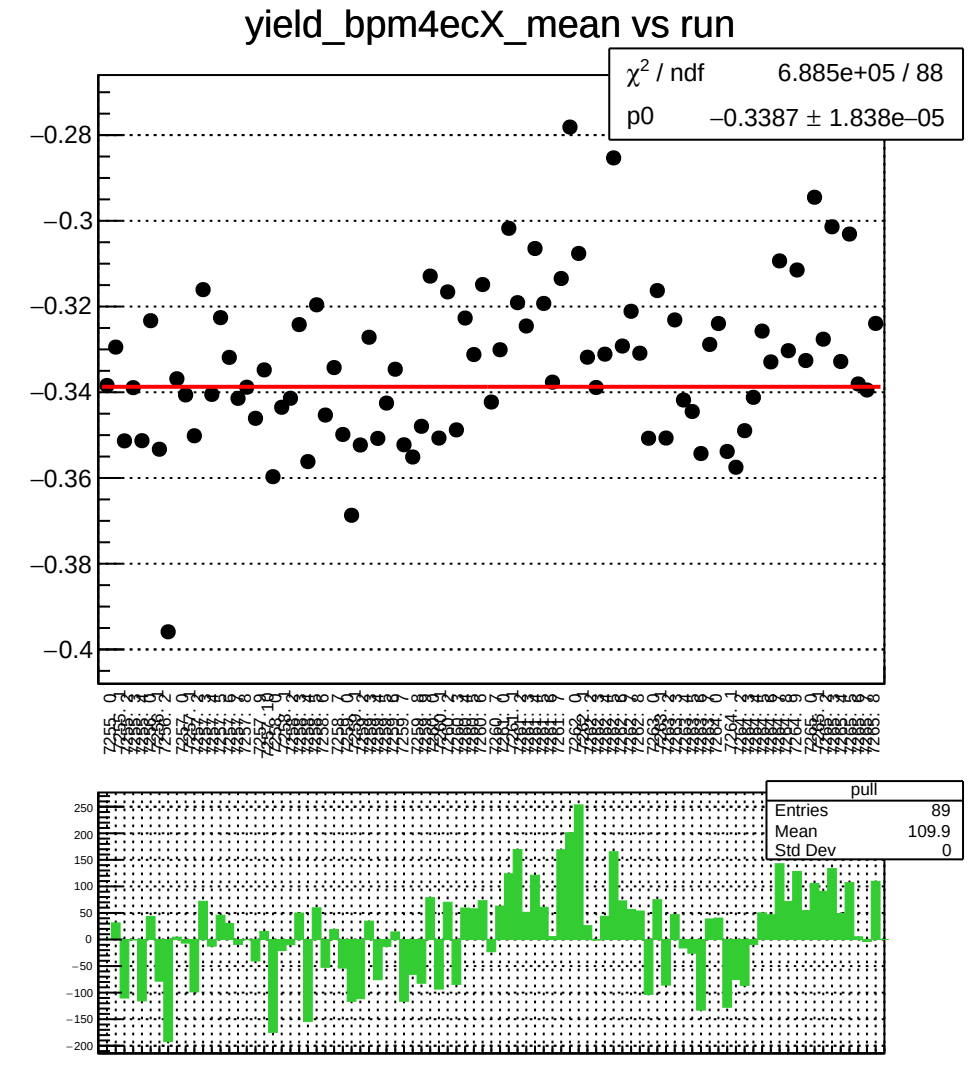

yield_bpm4acX_mean vs run
χ² / ndf 3.658e+05 / 88
p0 −1.141 ± 1.948e−05
−1.09
−1.1
−1.11
−1.12
−1.13
−1.14
−1.15
−1.16
−1.17
−1.18
pull
Entries 89
Mean 19.94
Std Dev 23.82
100
50
0
−50
−100

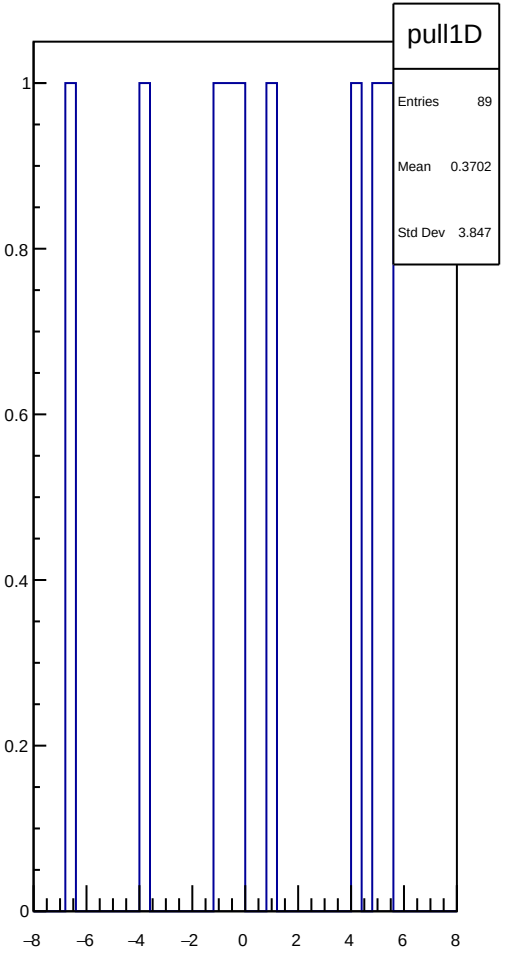

pull1D
Entries 89
Mean 2.214
Std Dev 5.074
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

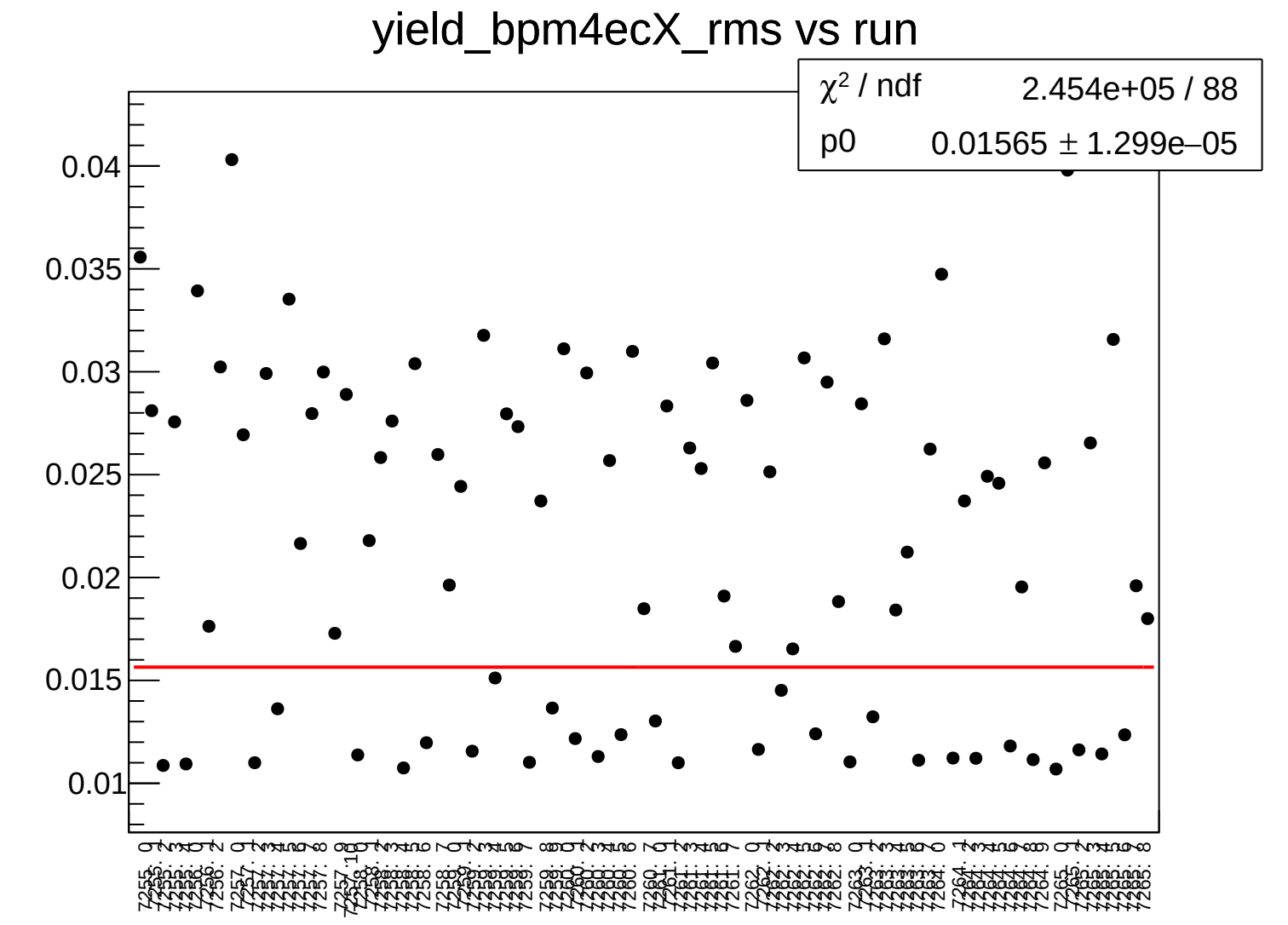

yield_bpm4acX_rms vs run
χ² / ndf 2.637e+05 / 88
p0 0.01648 ± 1.377e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

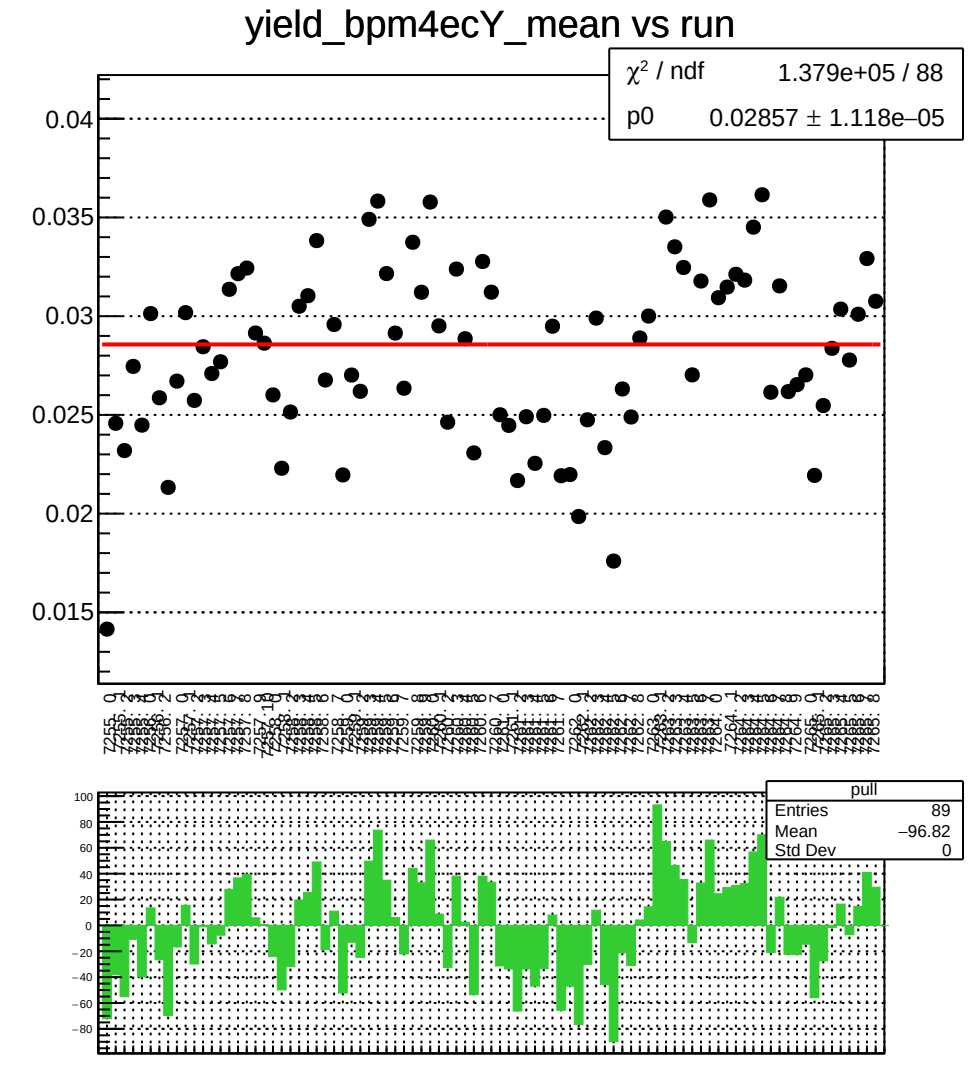

yield_bpm4acY_mean vs run
χ² / ndf 4.186e+05 / 88
p0 0.6132 ± 1.265e−05
0.635
0.63
0.625
0.62
0.615
0.61
0.605
0.6
0.595
pull
Entries 89
Mean −1568
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 89
Mean 2.965
Std Dev 3.228
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

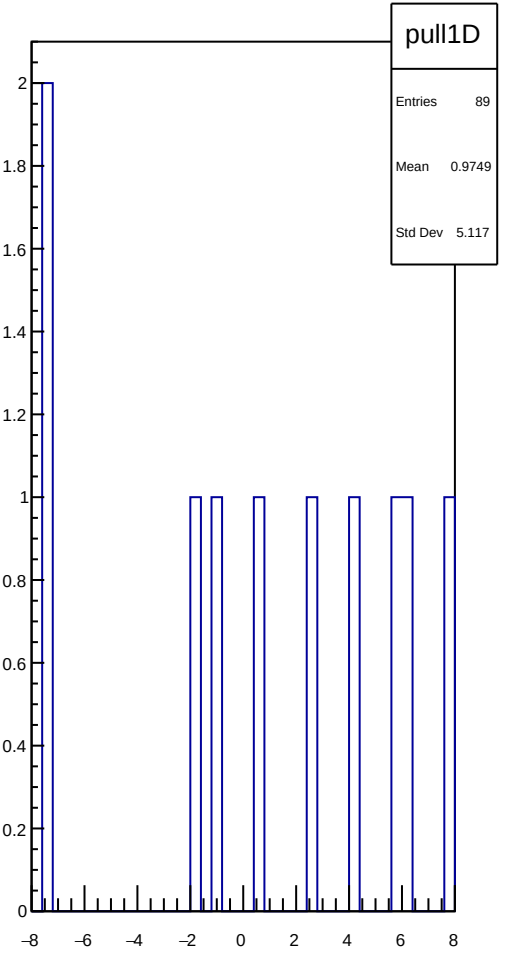

yield_bpm4acY_rms vs run
χ² / ndf 8709 / 88
p0 0.01161 ± 8.942e–06
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

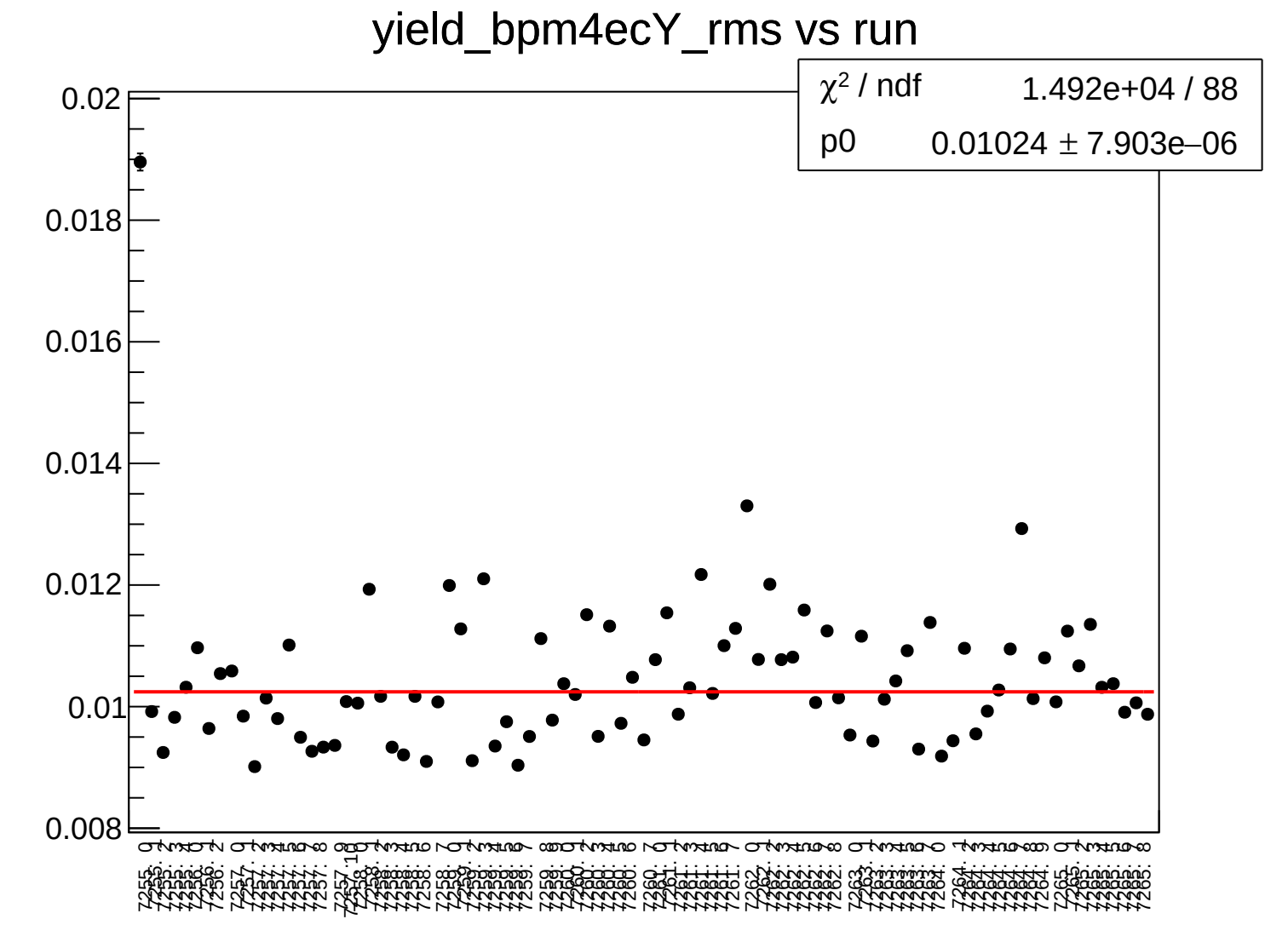

yield_bpm4ecX_mean vs run
χ² / ndf 6.885e+05 / 88
p0 −0.3387 ± 1.838e−05
−0.28
−0.3
−0.32
−0.34
−0.36
−0.38
−0.4
pull
Entries 89
Mean 109.9
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

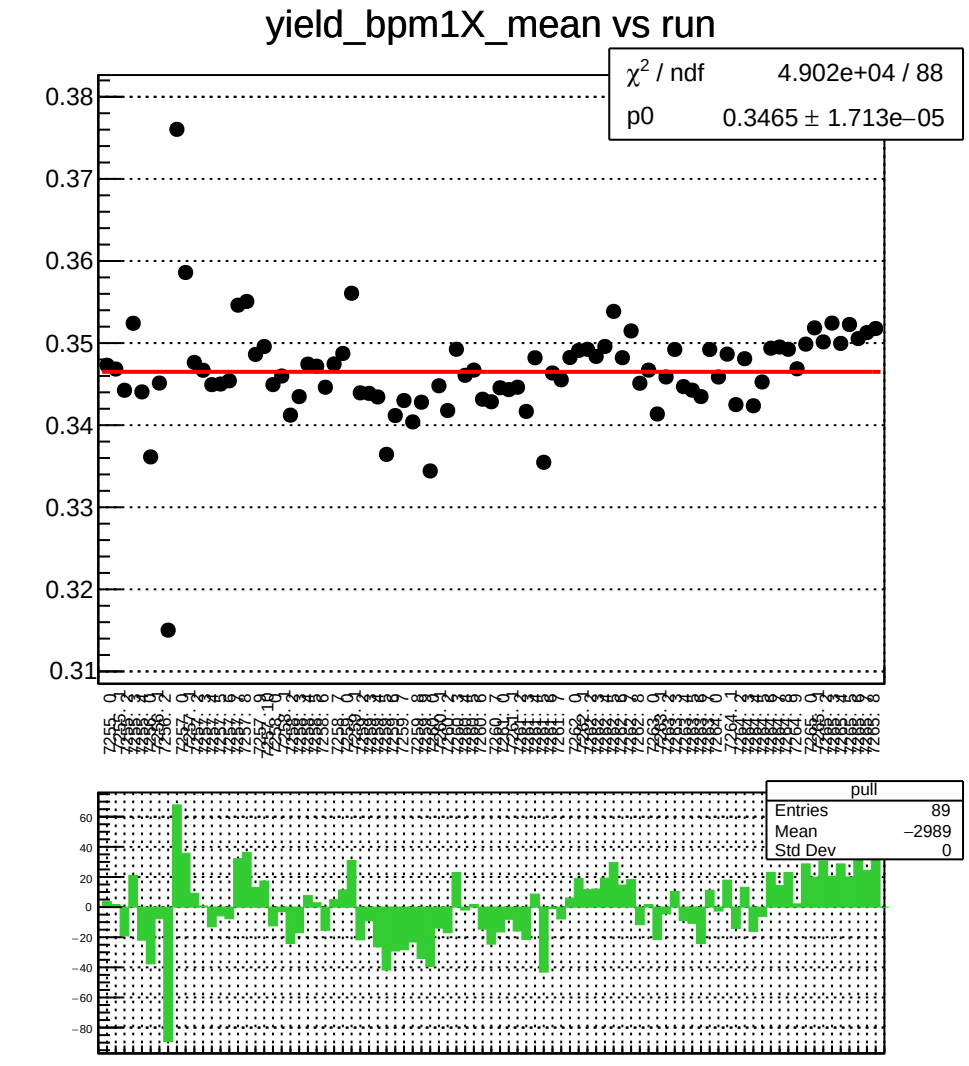

pull1D
Entries 89
Mean 0.3702
Std Dev 3.847
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

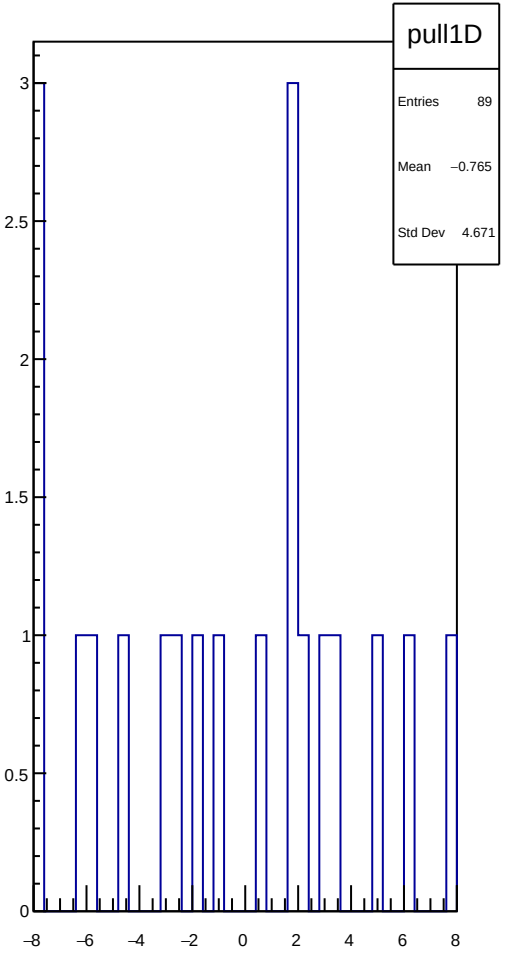

yield_bpm4ecX_rms vs run
χ² / ndf 2.454e+05 / 88
p0 0.01565 ± 1.299e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

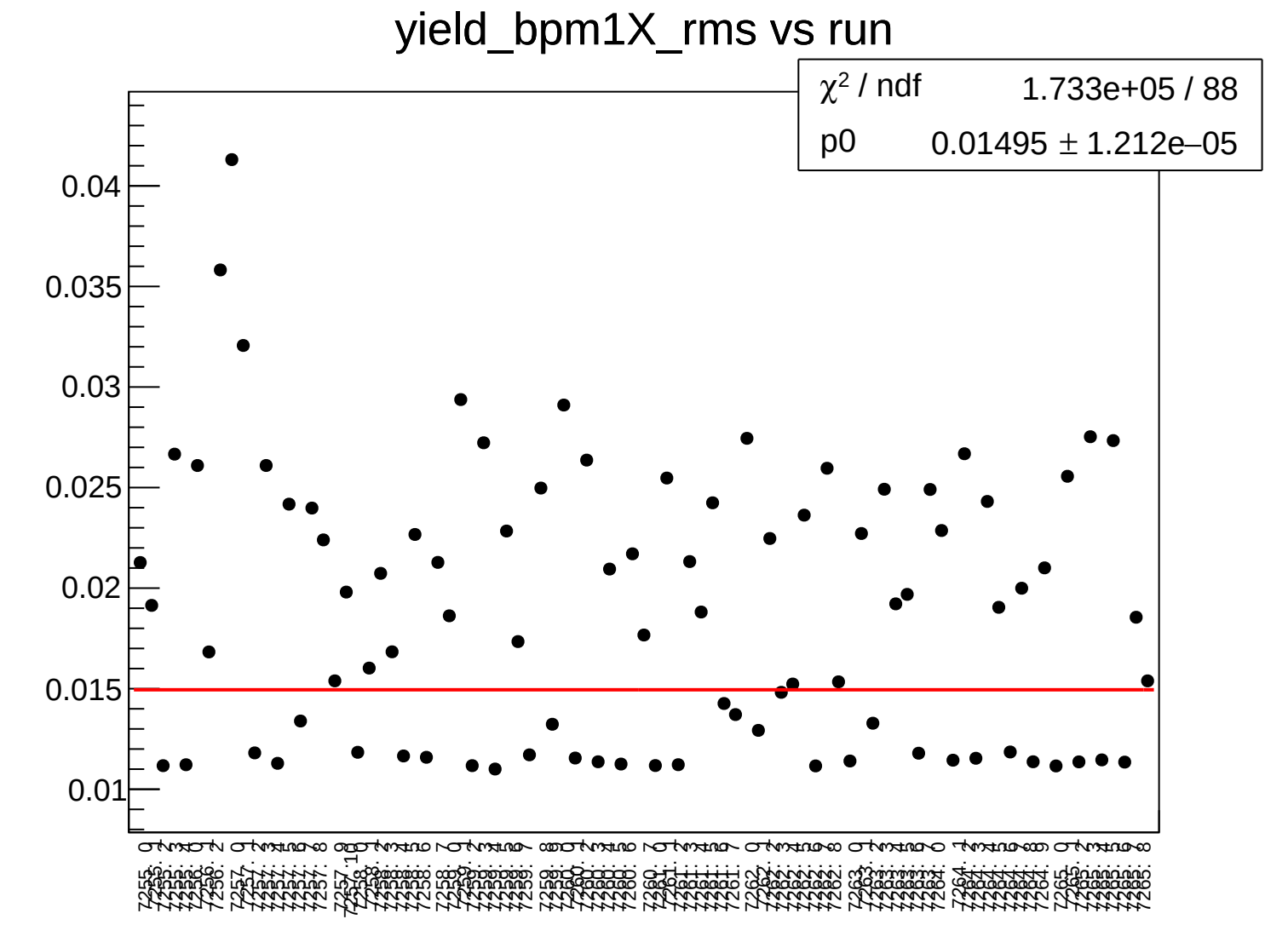

yield_bpm4ecY_mean vs run
χ² / ndf 1.379e+05 / 88
p0 0.02857 ± 1.118e–05
pull
Entries 89
Mean –96.82
Std Dev 0

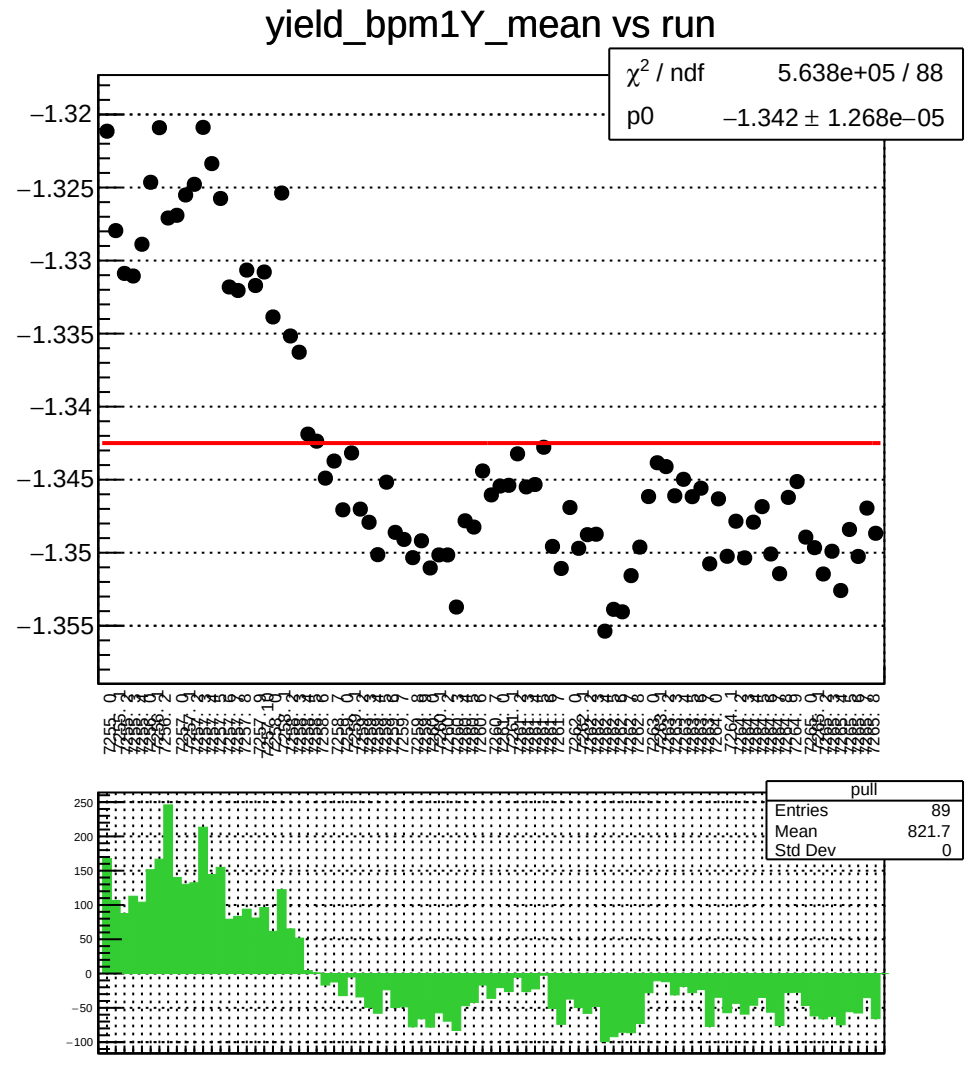

pull1D
Entries 89
Mean 0.9749
Std Dev 5.117

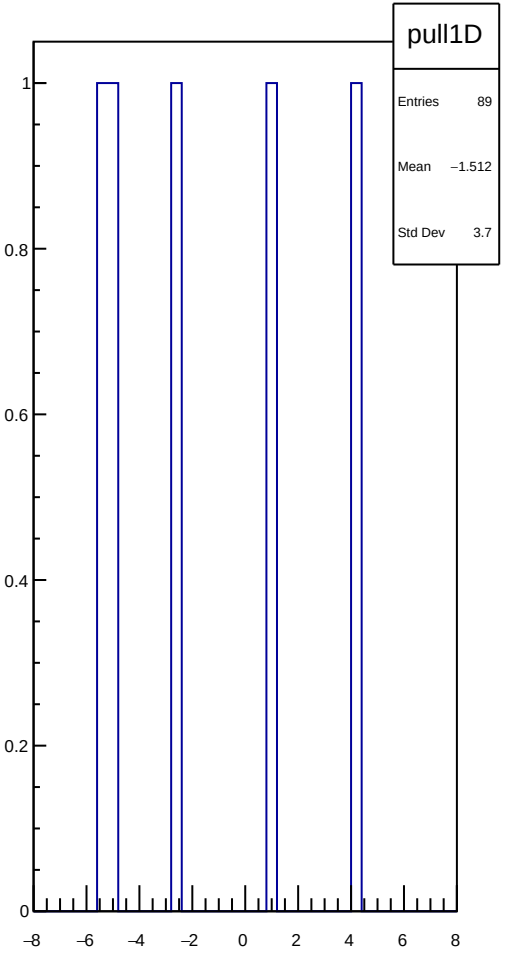

yield_bpm4ecY_rms vs run
χ² / ndf 1.492e+04 / 88
p0 0.01024 ± 7.903e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

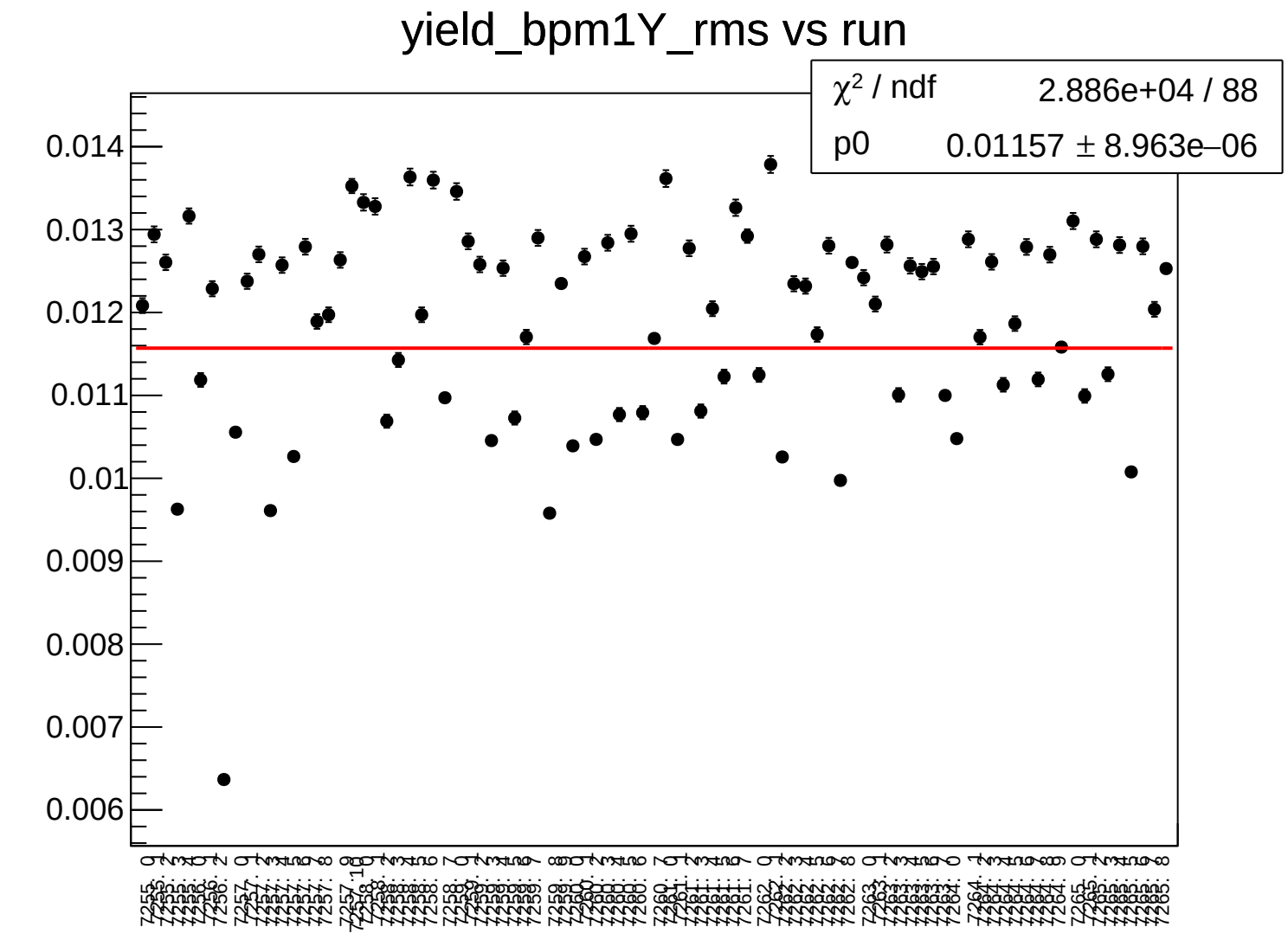

yield_bpm1X_mean vs run
χ² / ndf 4.902e+04 / 88
p0 0.3465 ± 1.713e−05
0.38
0.37
0.36
0.35
0.34
0.33
0.32
0.31
pull
Entries 89
Mean −2989
Std Dev 0
60
40
20
0
−20
−40
−60
−80

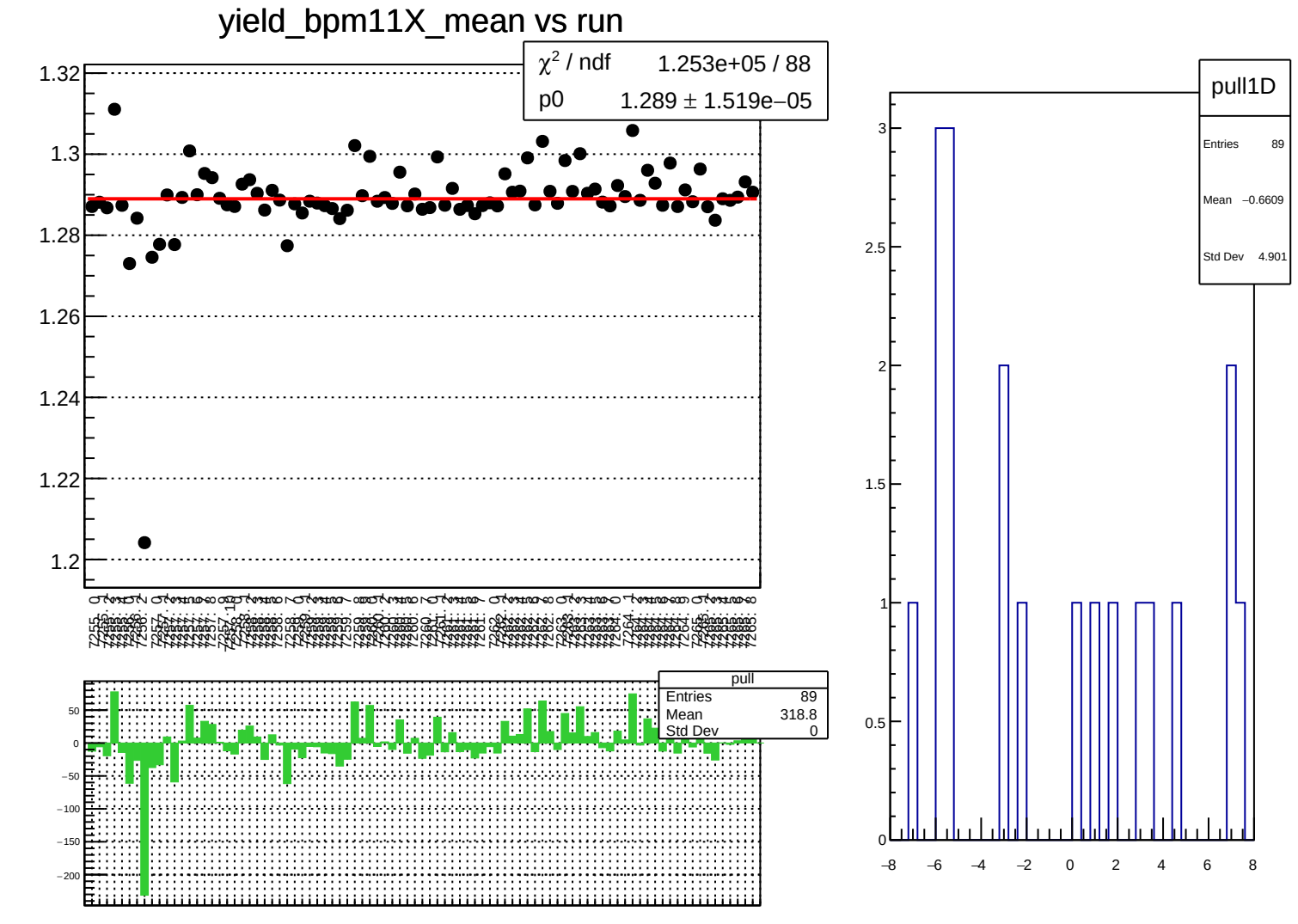

pull1D
Entries 89
Mean −0.765
Std Dev 4.671
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

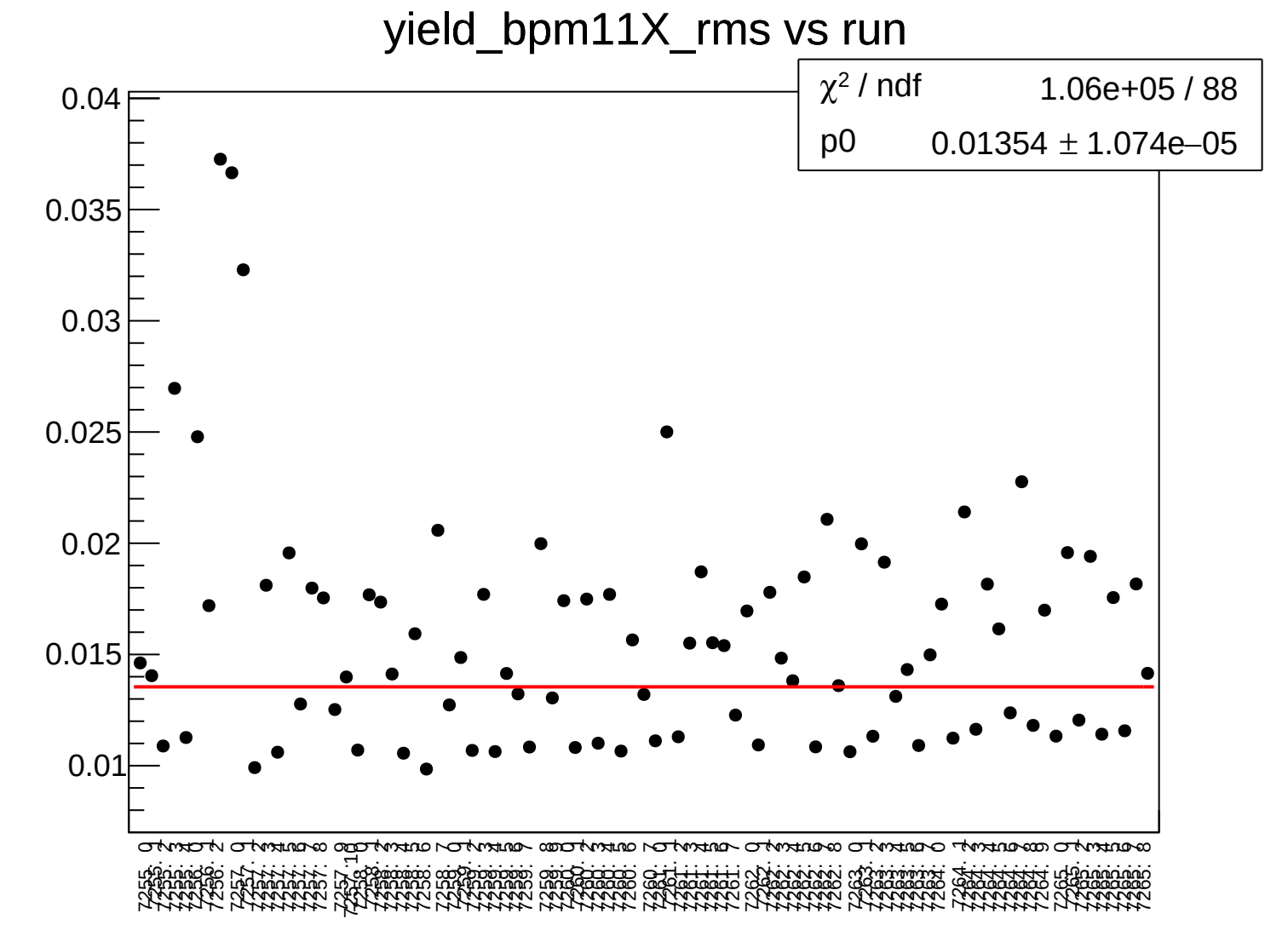

yield_bpm1X_rms vs run
χ² / ndf 1.733e+05 / 88
p0 0.01495 ± 1.212e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

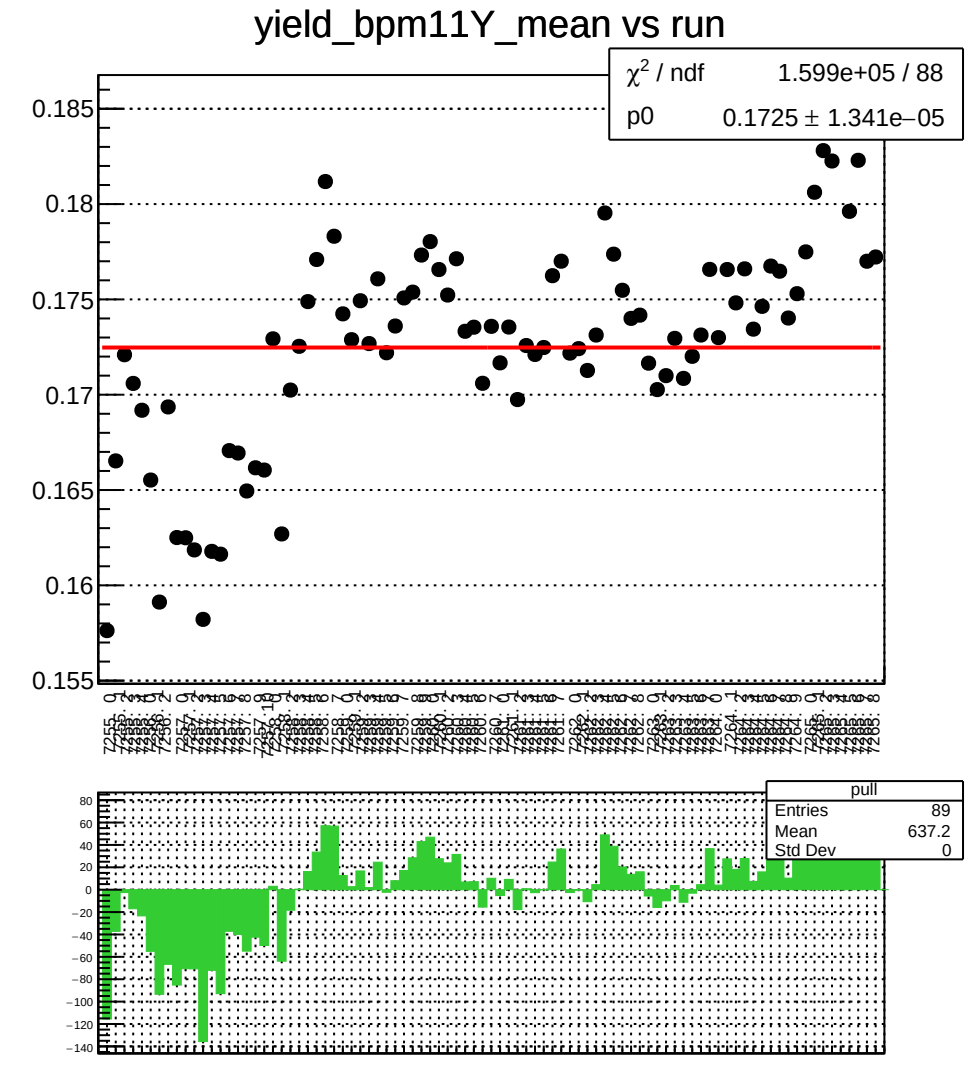

yield_bpm1Y_mean vs run
χ² / ndf 5.638e+05 / 88
p0 −1.342 ± 1.268e−05
−1.32
−1.325
−1.33
−1.335
−1.34
−1.345
−1.35
−1.355
pull
Entries 89
Mean 821.7
Std Dev 0
250
200
150
100
50
0
−50
−100

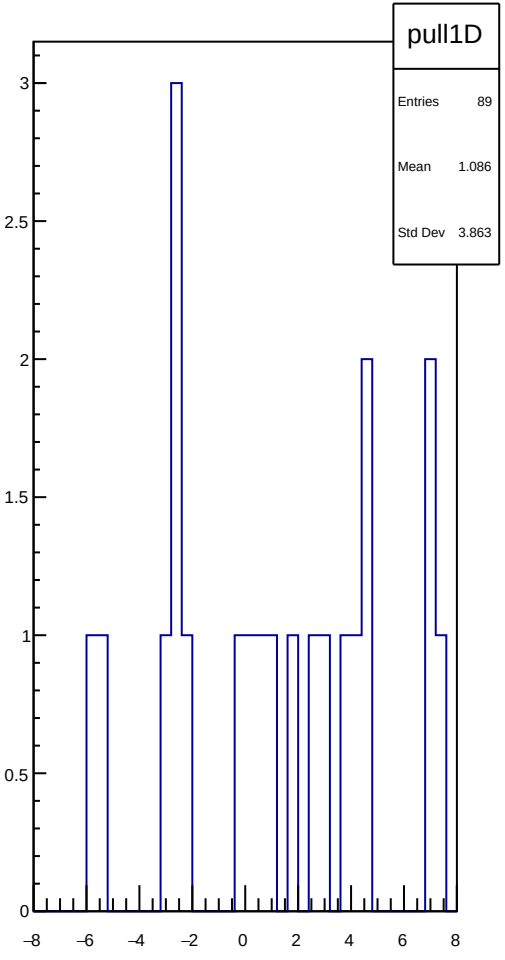

pull1D
Entries 89
Mean −1.512
Std Dev 3.7
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

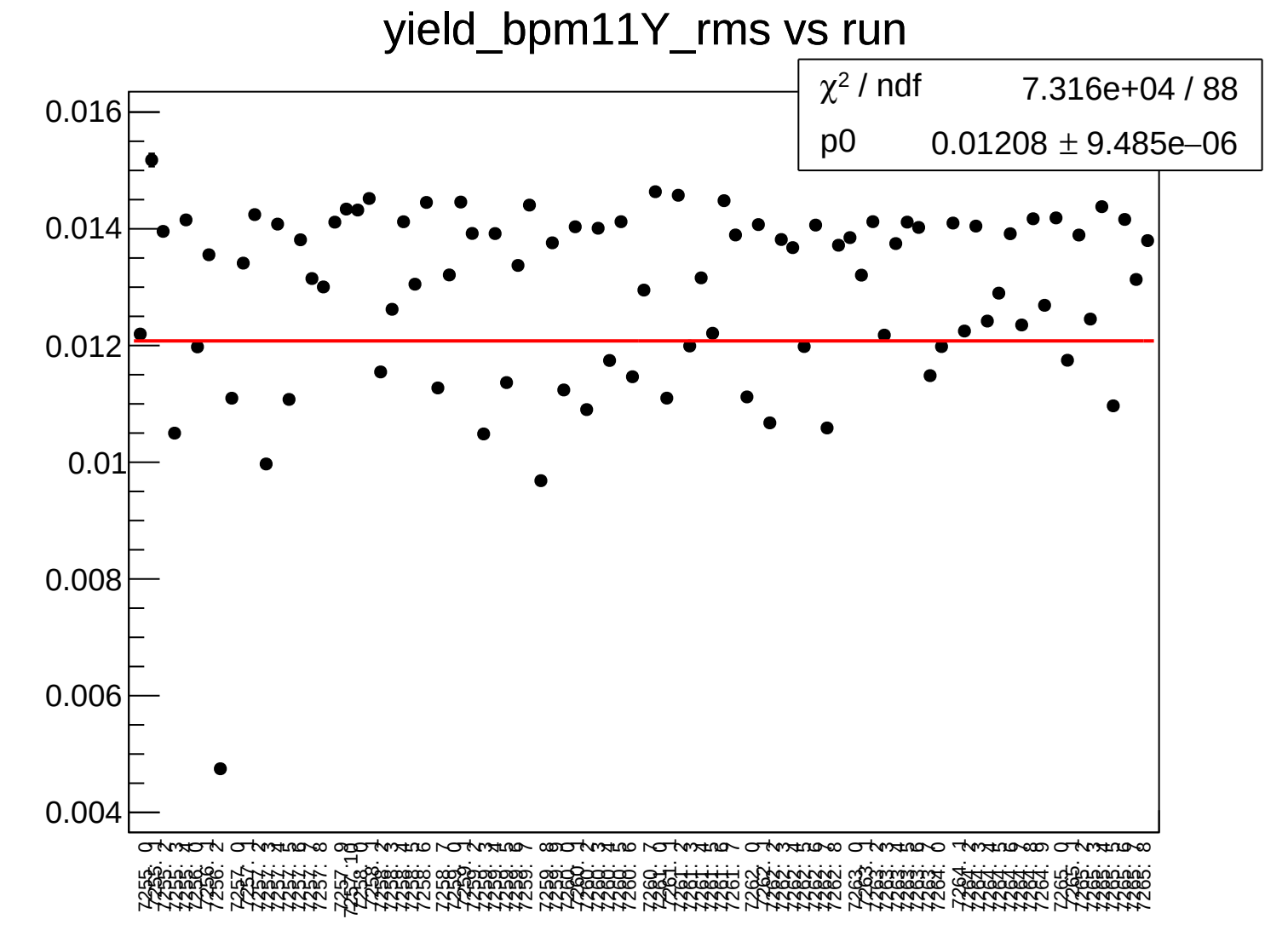

yield_bpm1Y_rms vs run
χ² / ndf 2.886e+04 / 88
p0 0.01157 ± 8.963e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

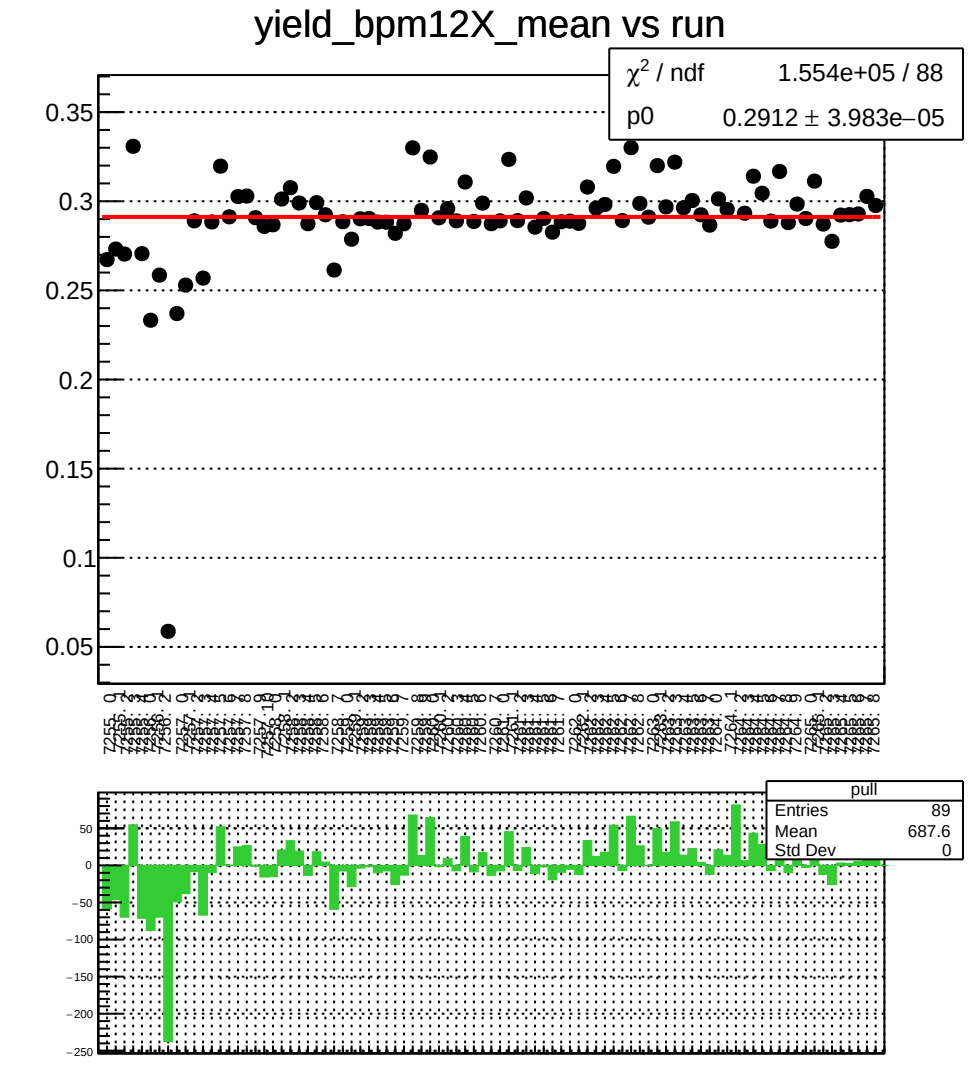

yield_bpm11X_mean vs run
χ² / ndf 1.253e+05 / 88
p0 1.289 ± 1.519e−05
1.32
1.3
1.28
1.26
1.24
1.22
1.2
pull
Entries 89
Mean 318.8
Std Dev 0
50
0
−50
−100
−150
−200
pull1D
Entries 89
Mean −0.6609
Std Dev 4.901
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

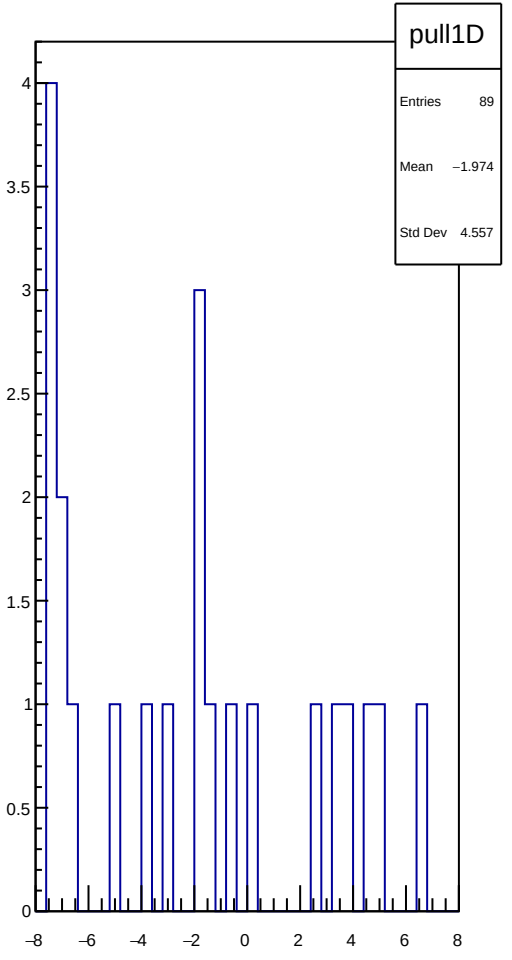

yield_bpm11X_rms vs run
χ² / ndf 1.06e+05 / 88
p0 0.01354 ± 1.074e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

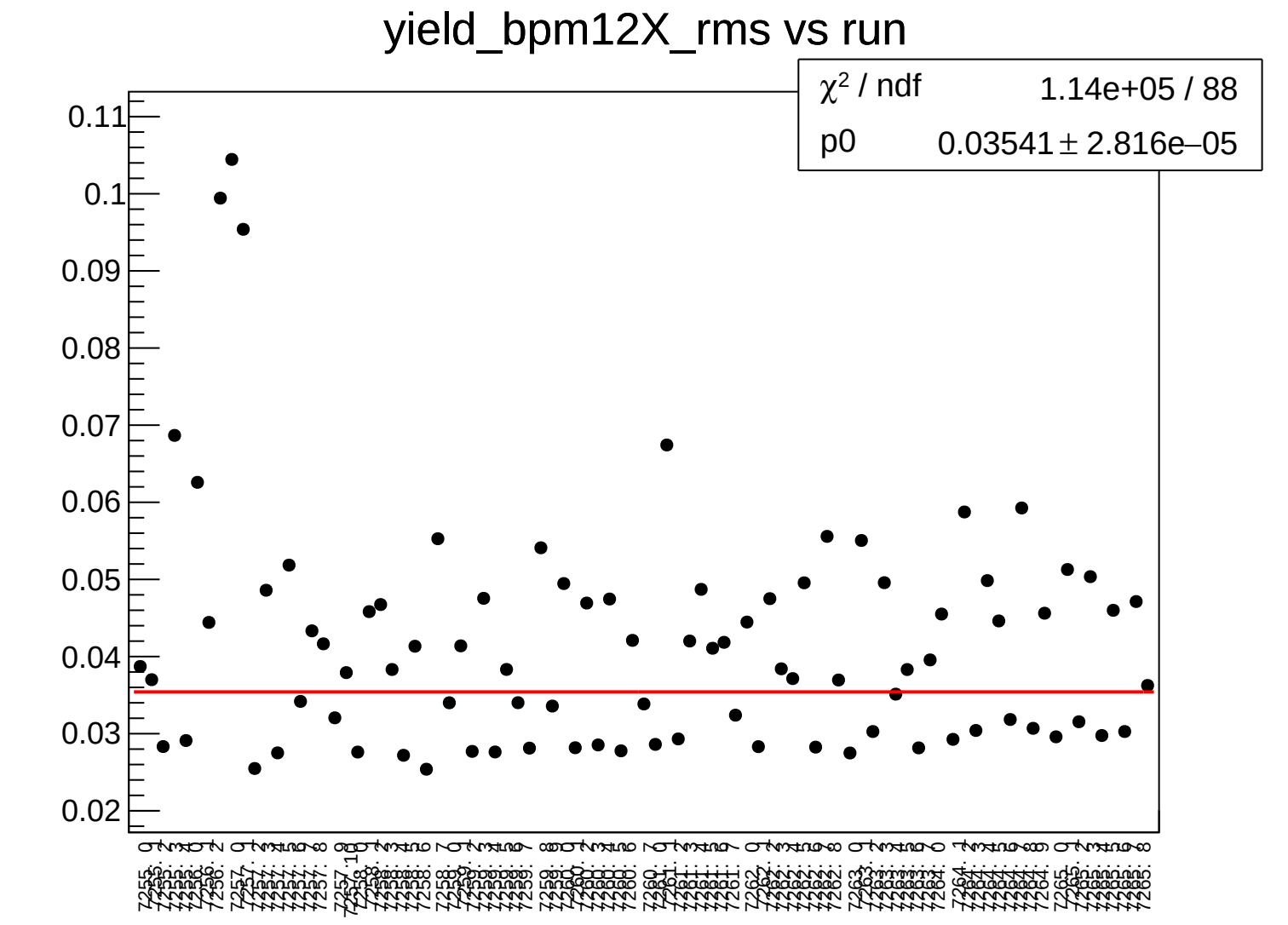

yield_bpm11Y_mean vs run
χ² / ndf 1.599e+05 / 88
p0 0.1725 ± 1.341e−05
0.185
0.18
0.175
0.17
0.165
0.16
0.155
pull
Entries 89
Mean 637.2
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

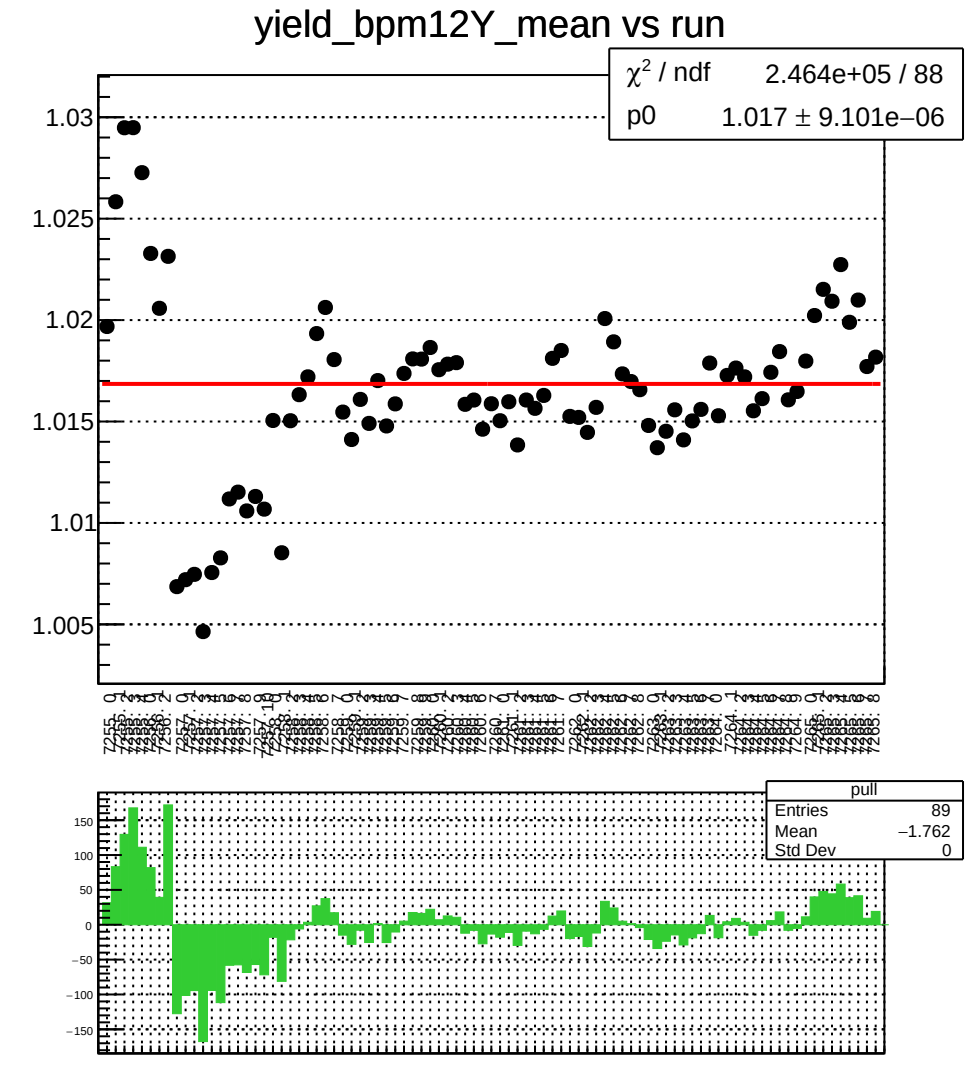

pull1D
Entries 89
Mean 1.086
Std Dev 3.863
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

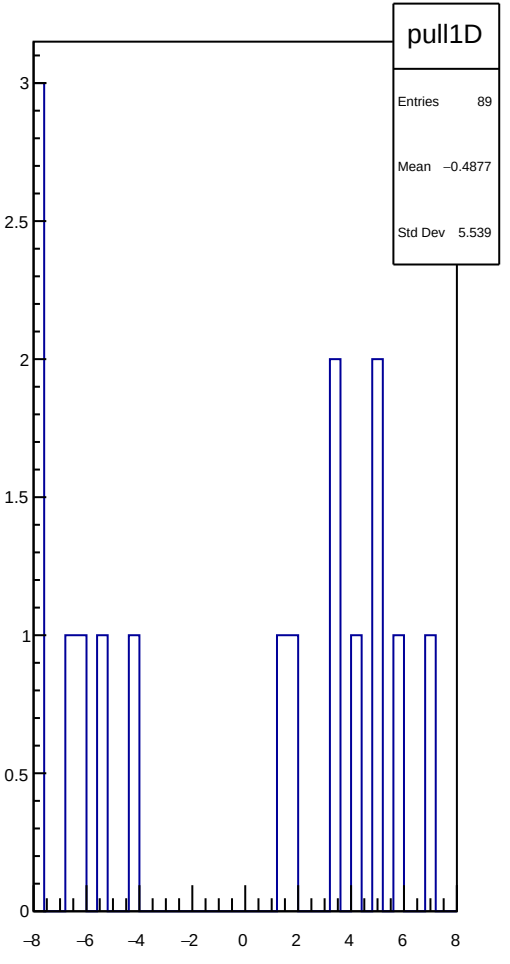

yield_bpm11Y_rms vs run
χ² / ndf 7.316e+04 / 88
p0 0.01208 ± 9.485e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

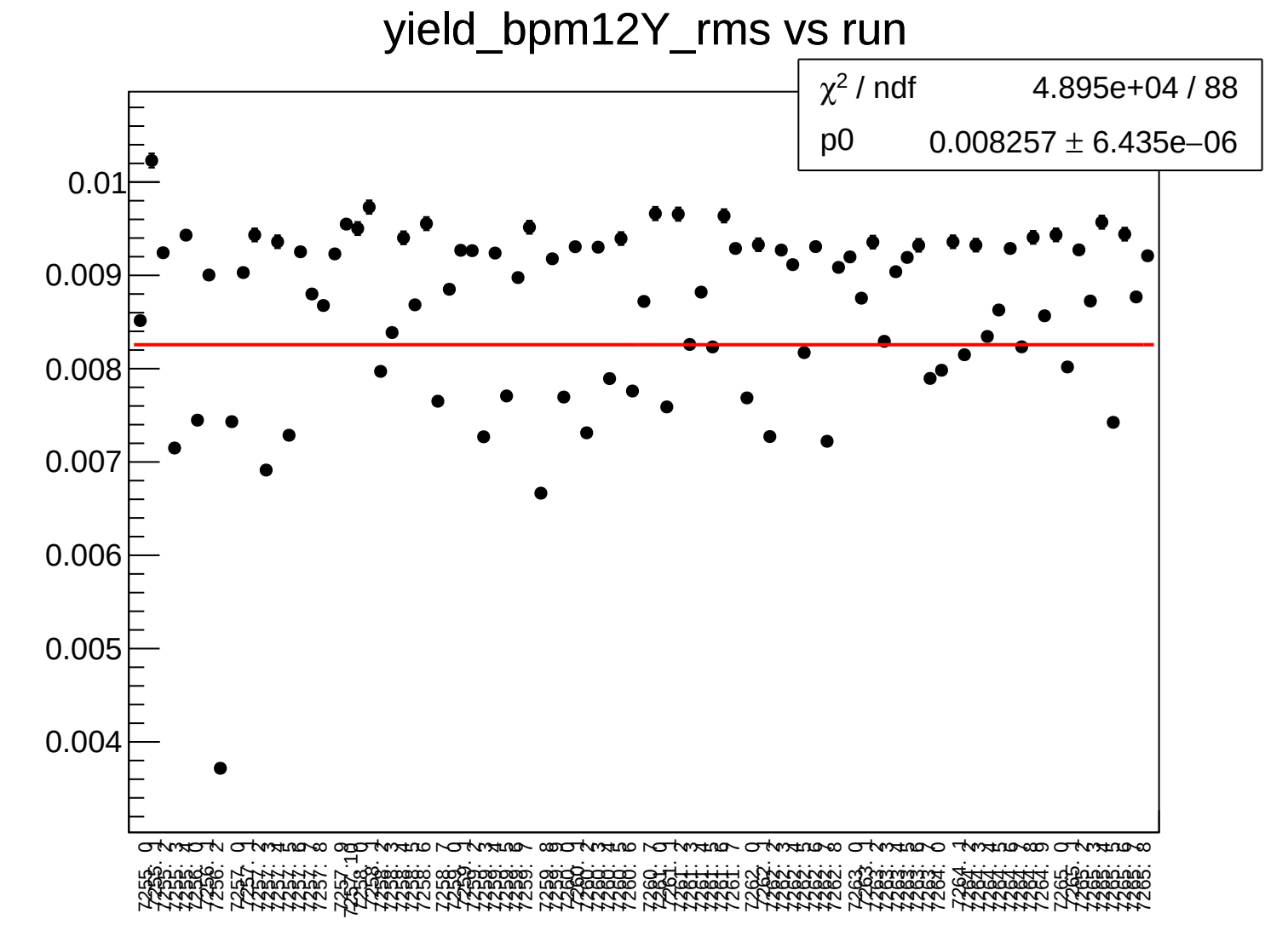

yield_bpm12X_mean vs run
χ² / ndf 1.554e+05 / 88
p0 0.2912 ± 3.983e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
pull
Entries 89
Mean 687.6
Std Dev 0
50
0
−50
−100
−150
−200
−250

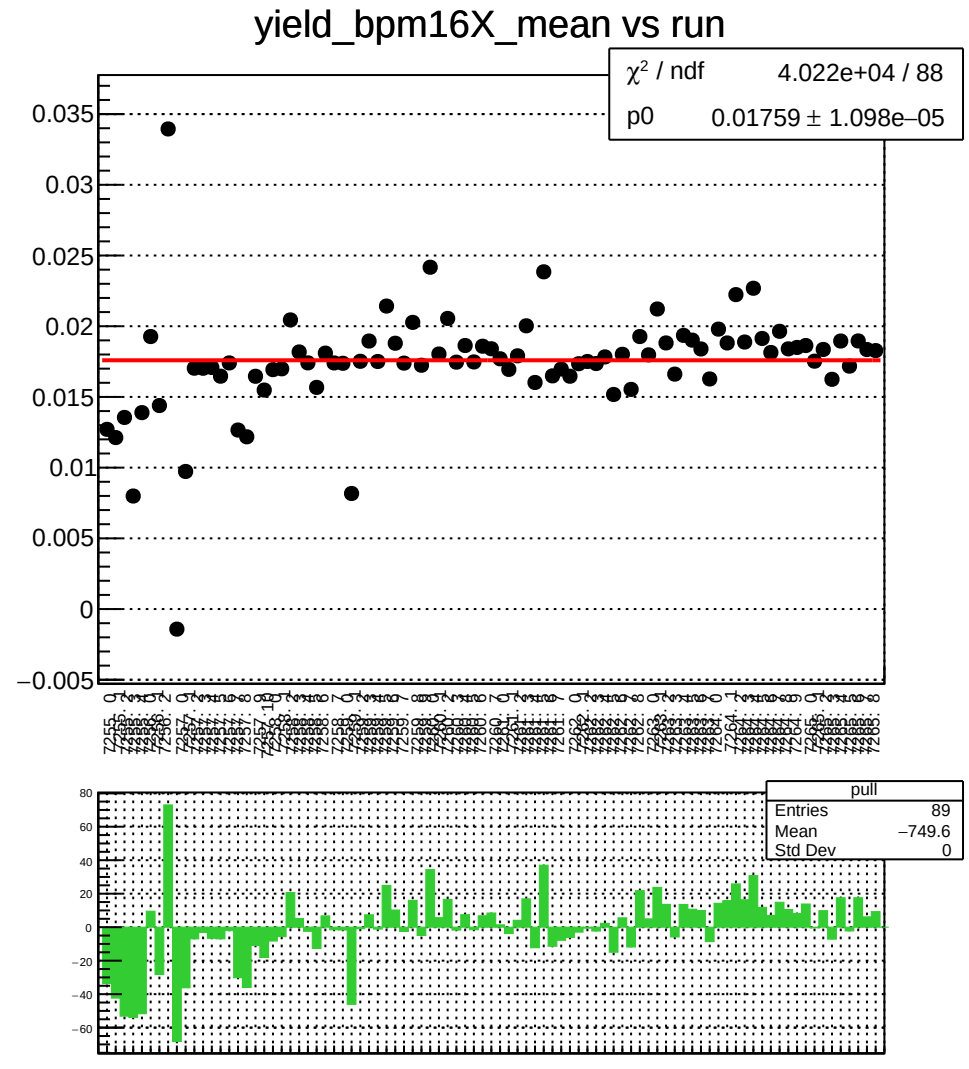

pull1D
Entries 89
Mean −1.974
Std Dev 4.557
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

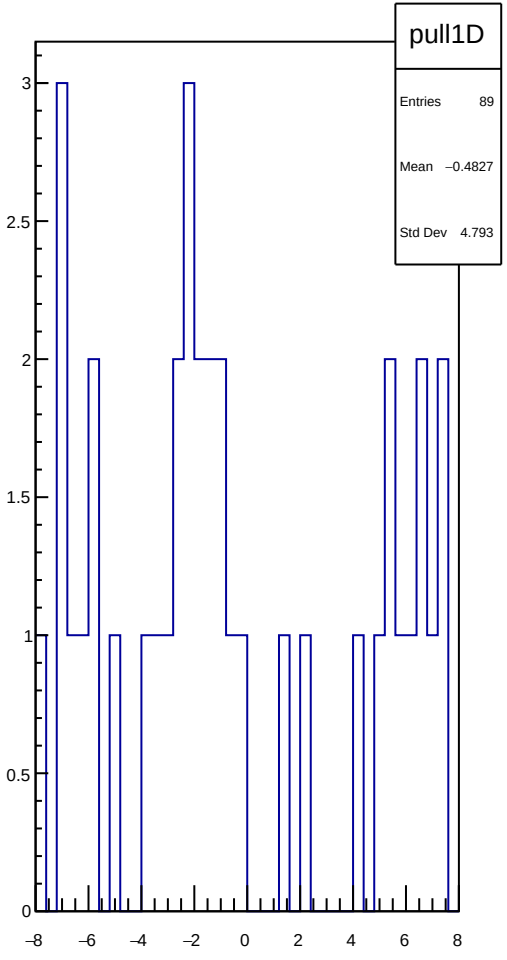

yield_bpm12X_rms vs run
χ² / ndf 1.14e+05 / 88
p0 0.03541 ± 2.816e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

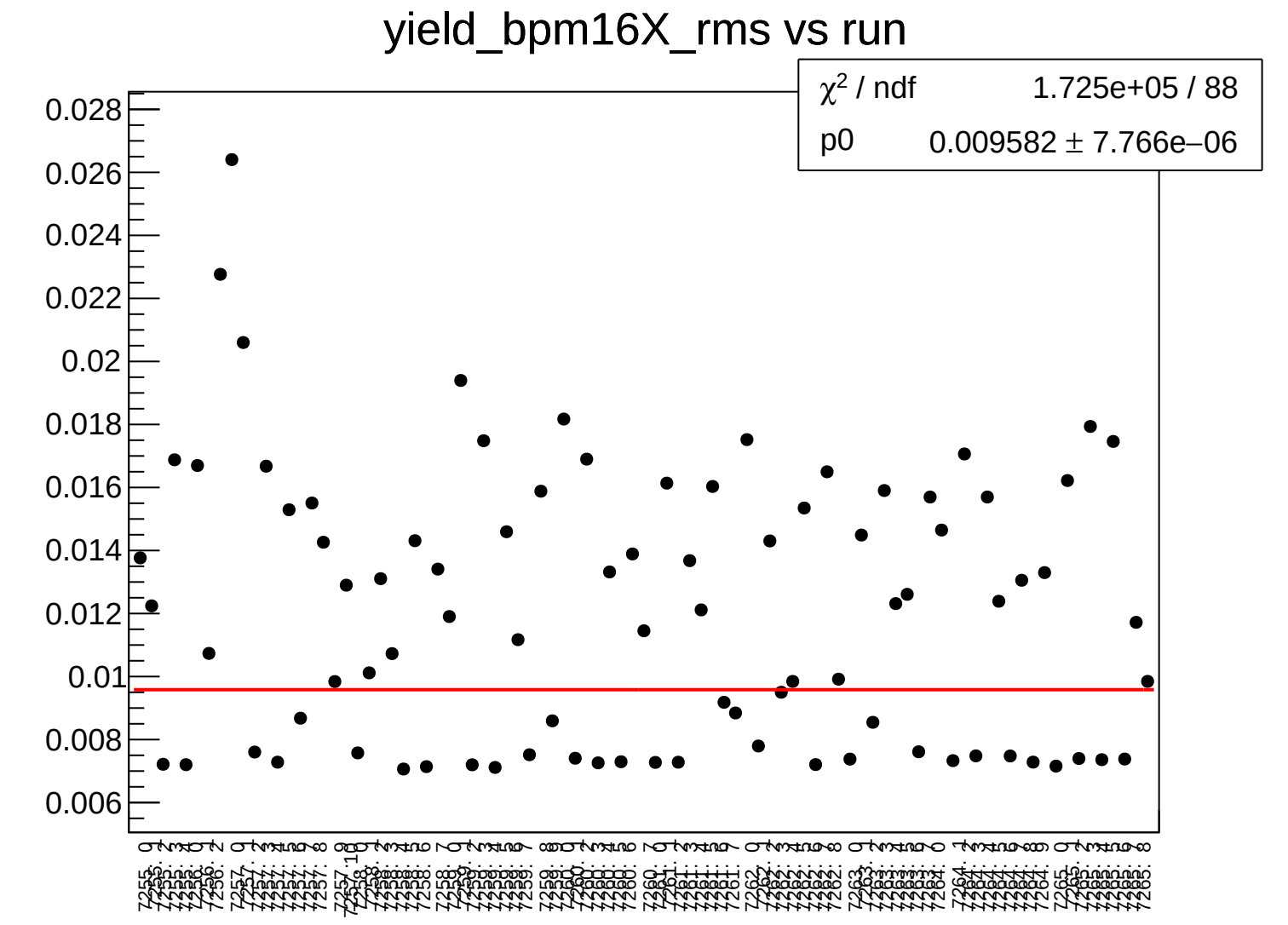

yield_bpm12Y_mean vs run
χ² / ndf 2.464e+05 / 88
p0 1.017 ± 9.101e−06
1.03
1.025
1.02
1.015
1.01
1.005
pull
Entries 89
Mean −1.762
Std Dev 0
150
100
50
0
−50
−100
−150

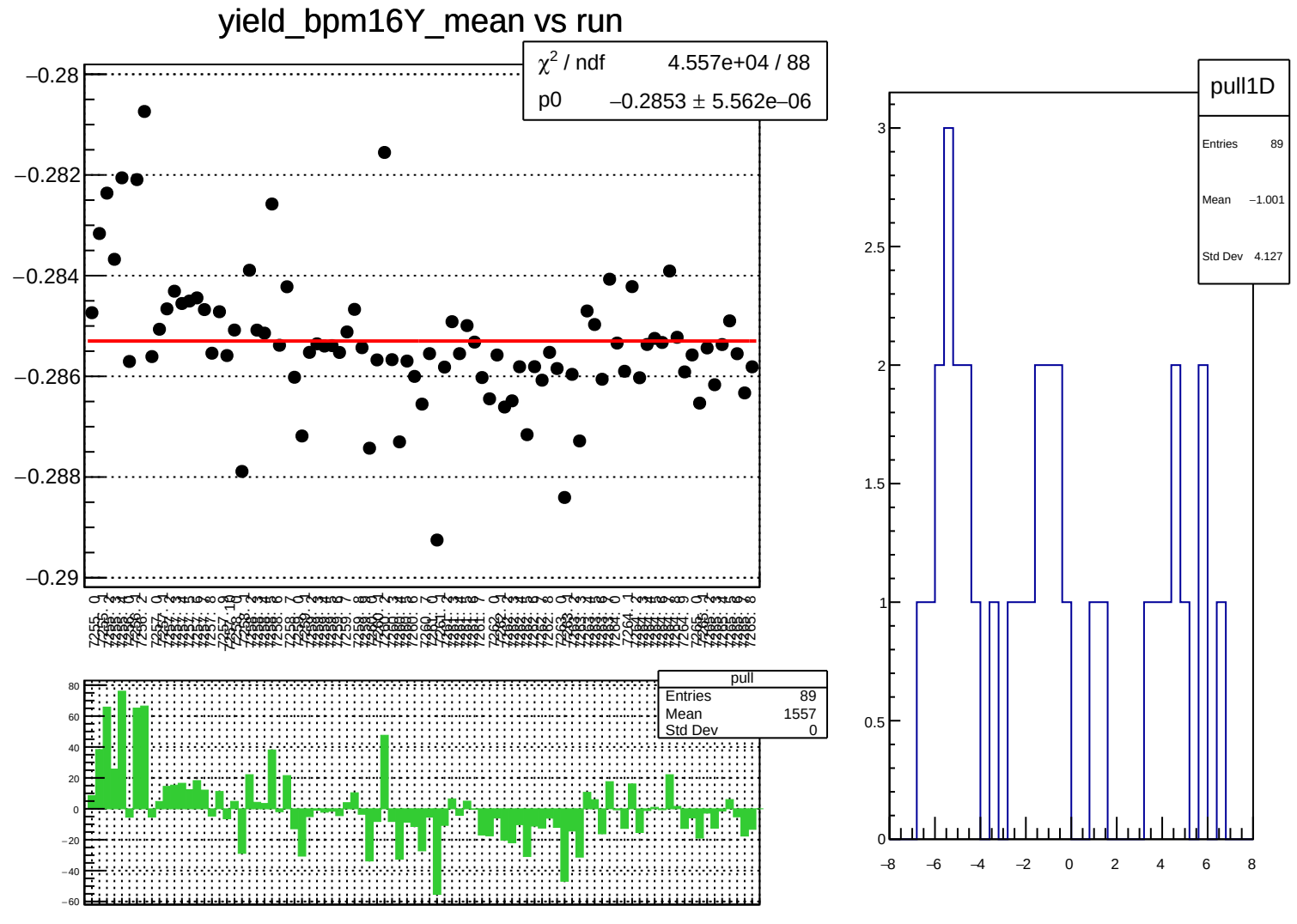

pull1D
Entries 89
Mean −0.4877
Std Dev 5.539
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

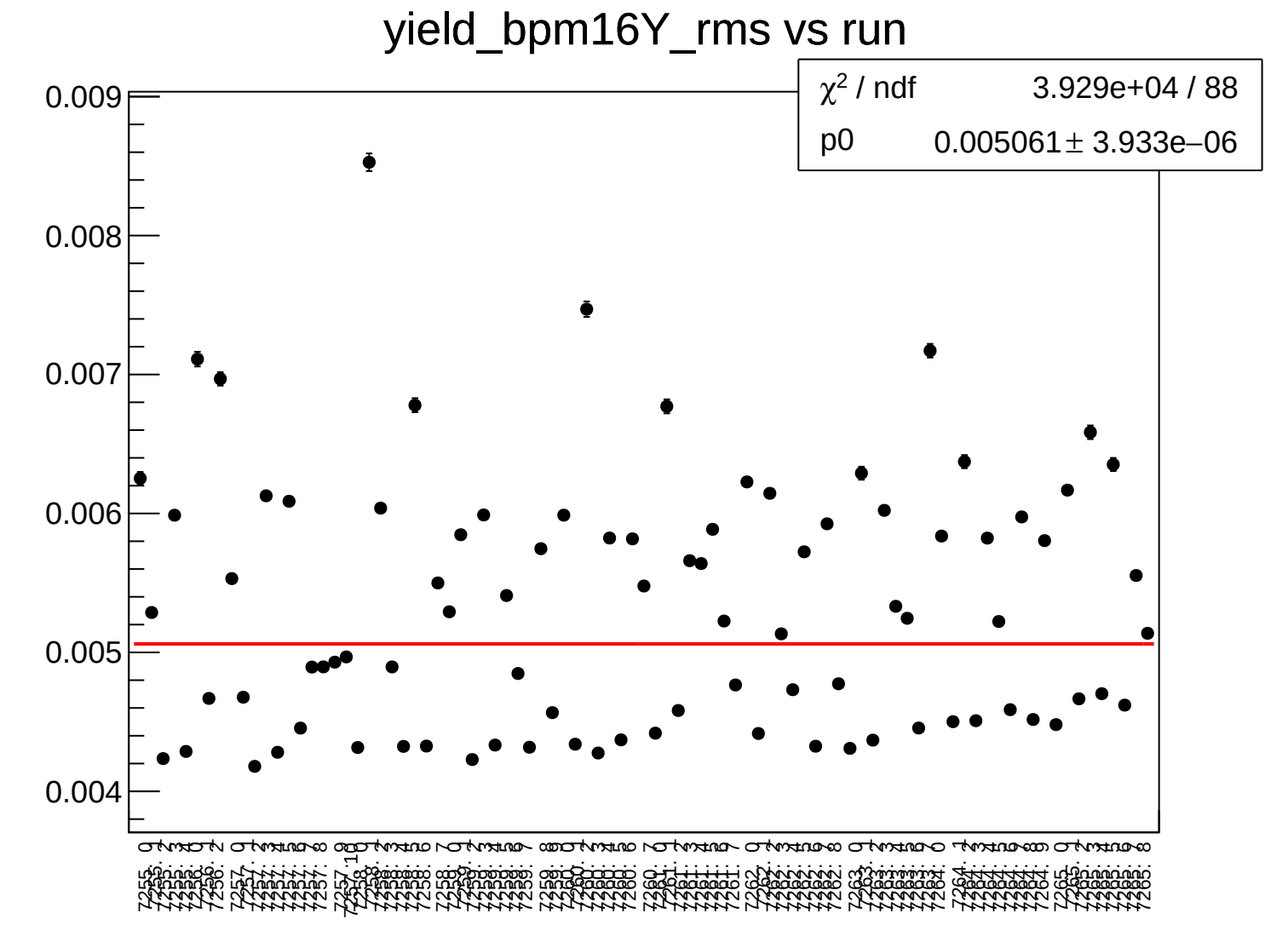

yield_bpm12Y_rms vs run
χ^2 / ndf 4.895e+04 / 88
p0 0.008257 ± 6.435e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

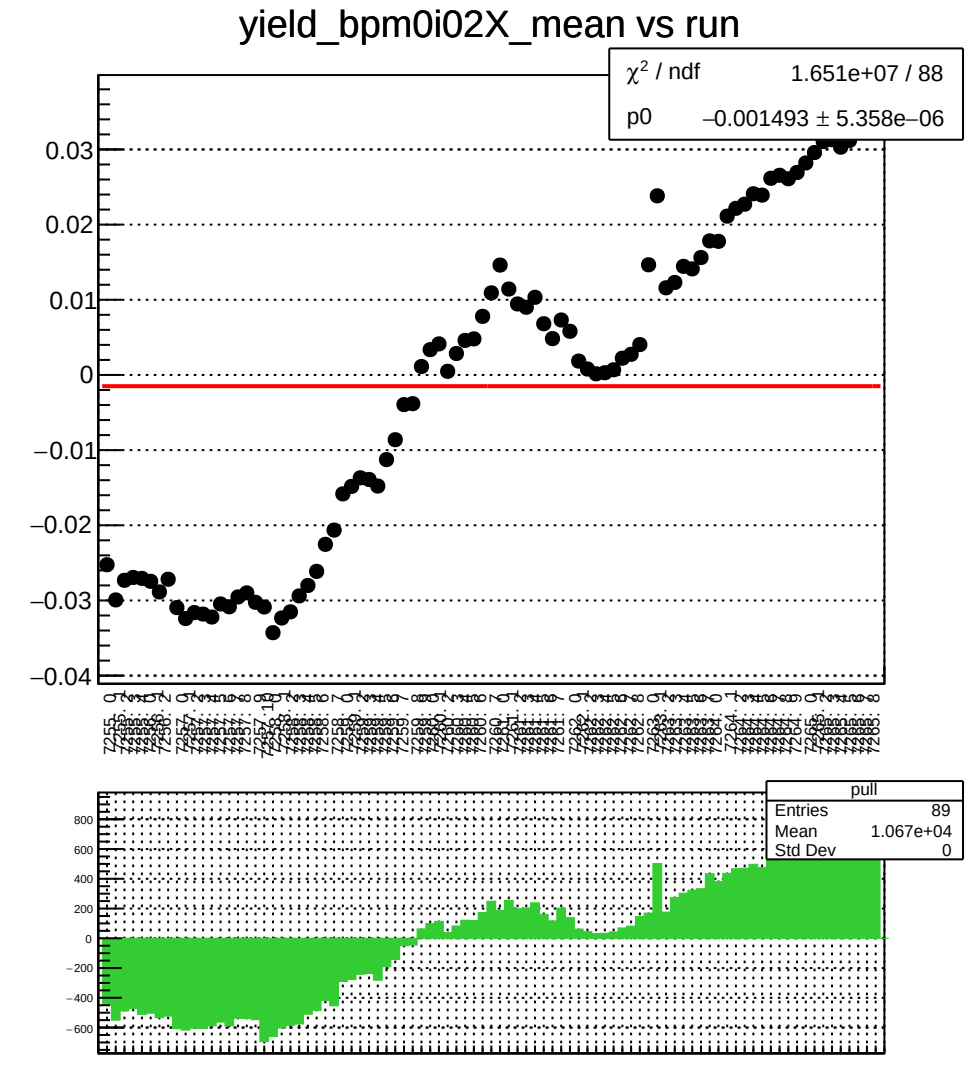

yield_bpm16X_mean vs run
χ² / ndf 4.022e+04 / 88
p0 0.01759 ± 1.098e−05
pull
Entries 89
Mean −749.6
Std Dev 0

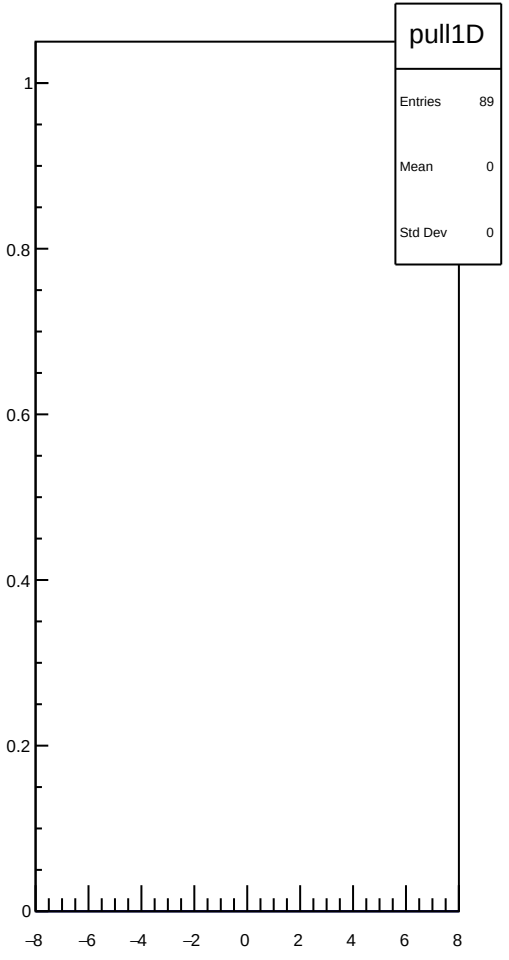

pull1D
Entries 89
Mean −0.4827
Std Dev 4.793

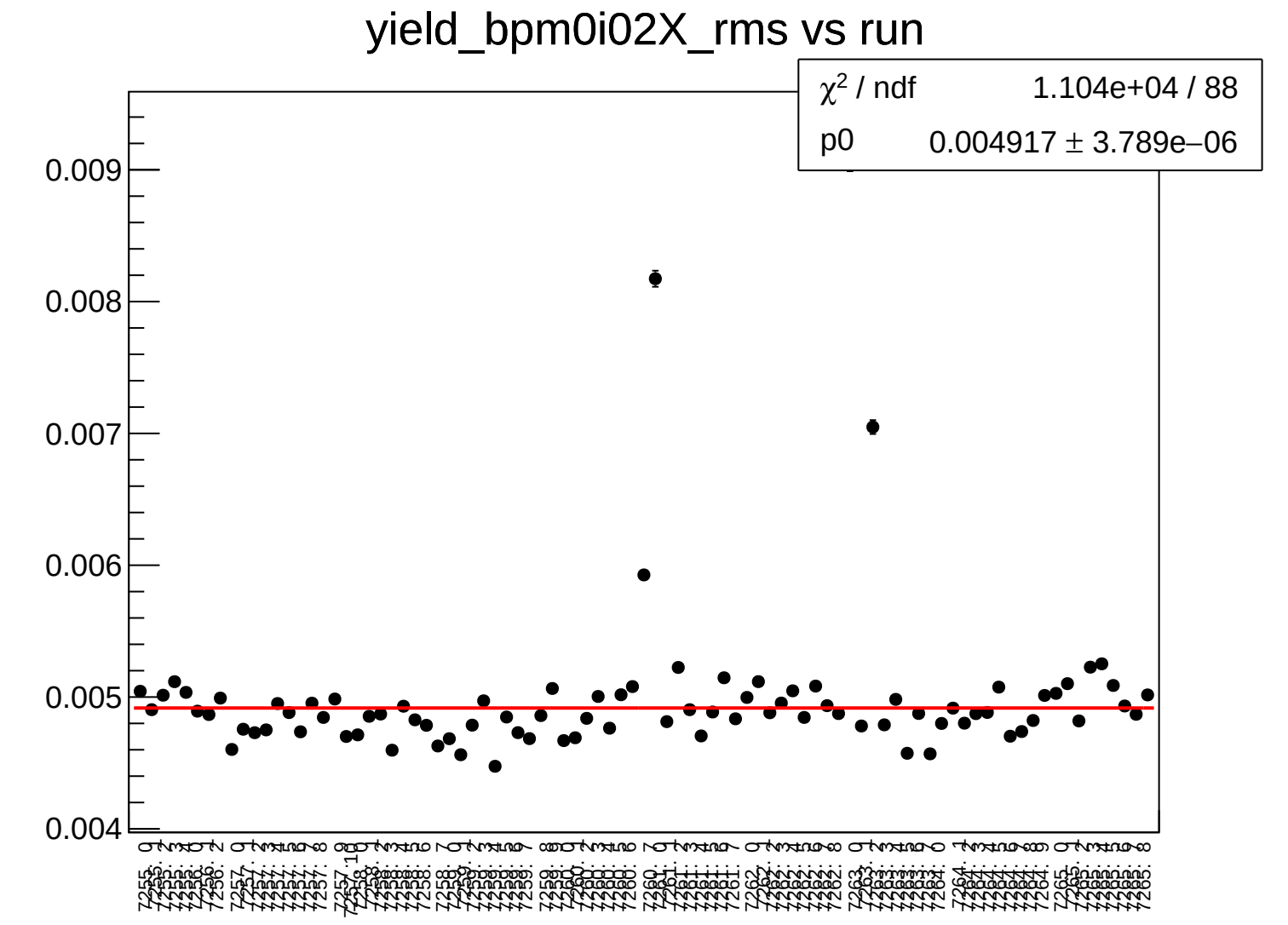

yield_bpm16X_rms vs run
χ² / ndf 1.725e+05 / 88
p0 0.009582 ± 7.766e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

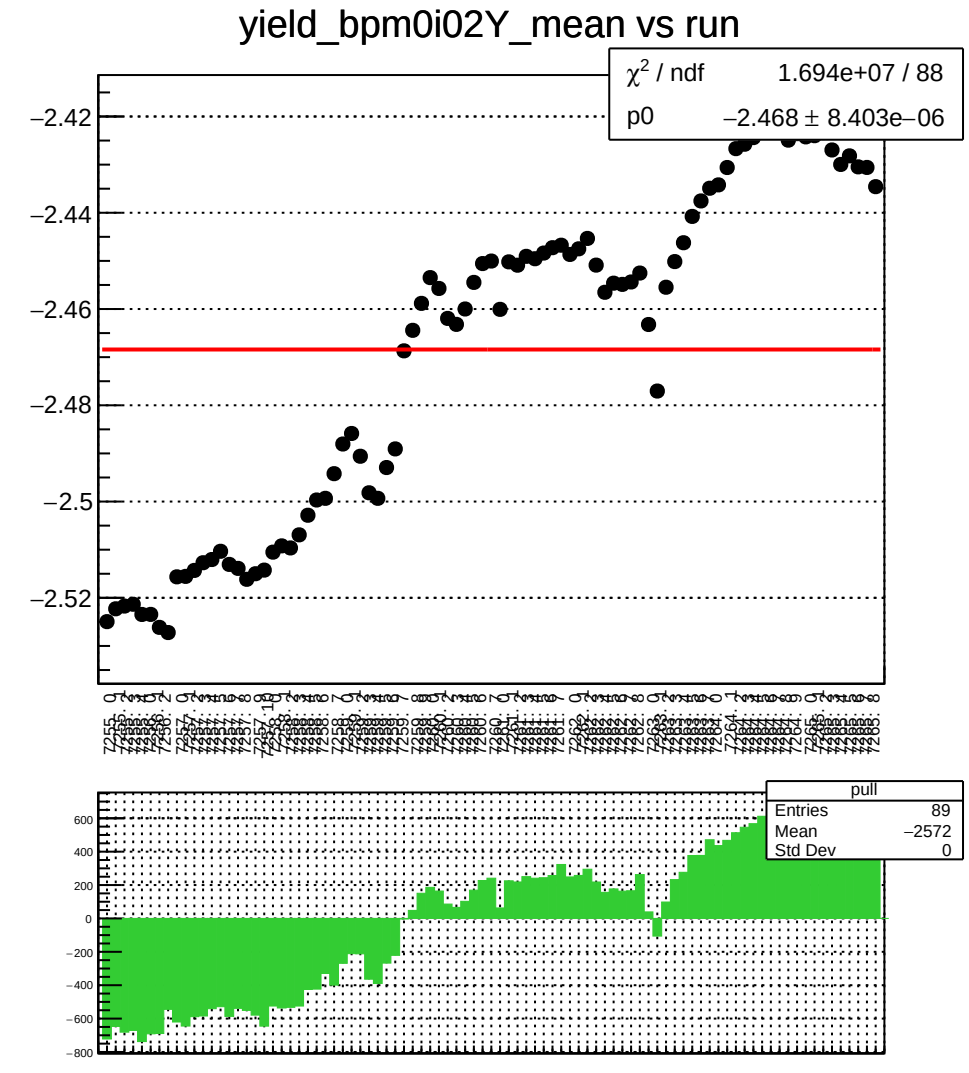

yield_bpm16Y_mean vs run
χ² / ndf 4.557e+04 / 88
p0 −0.2853 ± 5.562e−06
−0.28
−0.282
−0.284
−0.286
−0.288
−0.29
pull
Entries 89
Mean 1557
Std Dev 0
80
60
40
20
0
−20
−40
−60
pull1D
Entries 89
Mean −1.001
Std Dev 4.127
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

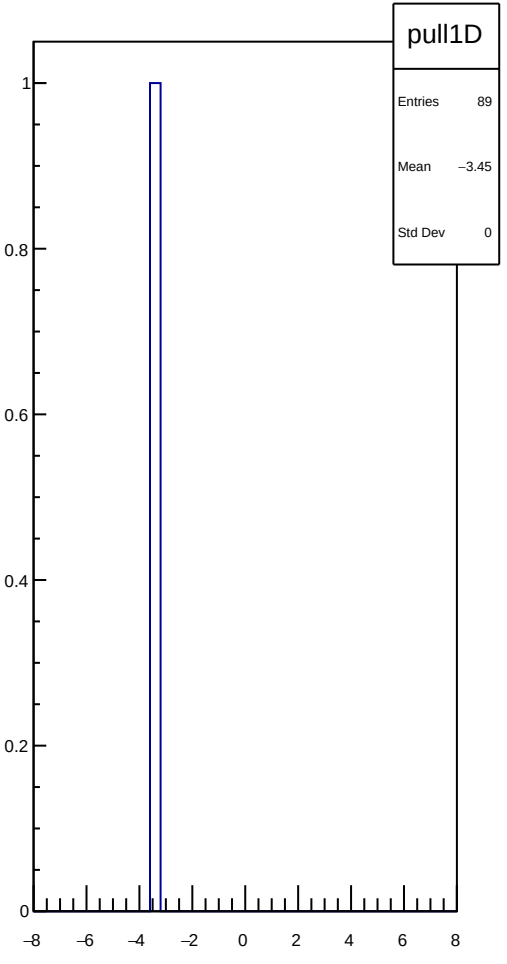

yield_bpm16Y_rms vs run
χ² / ndf 3.929e+04 / 88
p0 0.005061 ± 3.933e−06
0.009
0.008
0.007
0.006
0.005
0.004

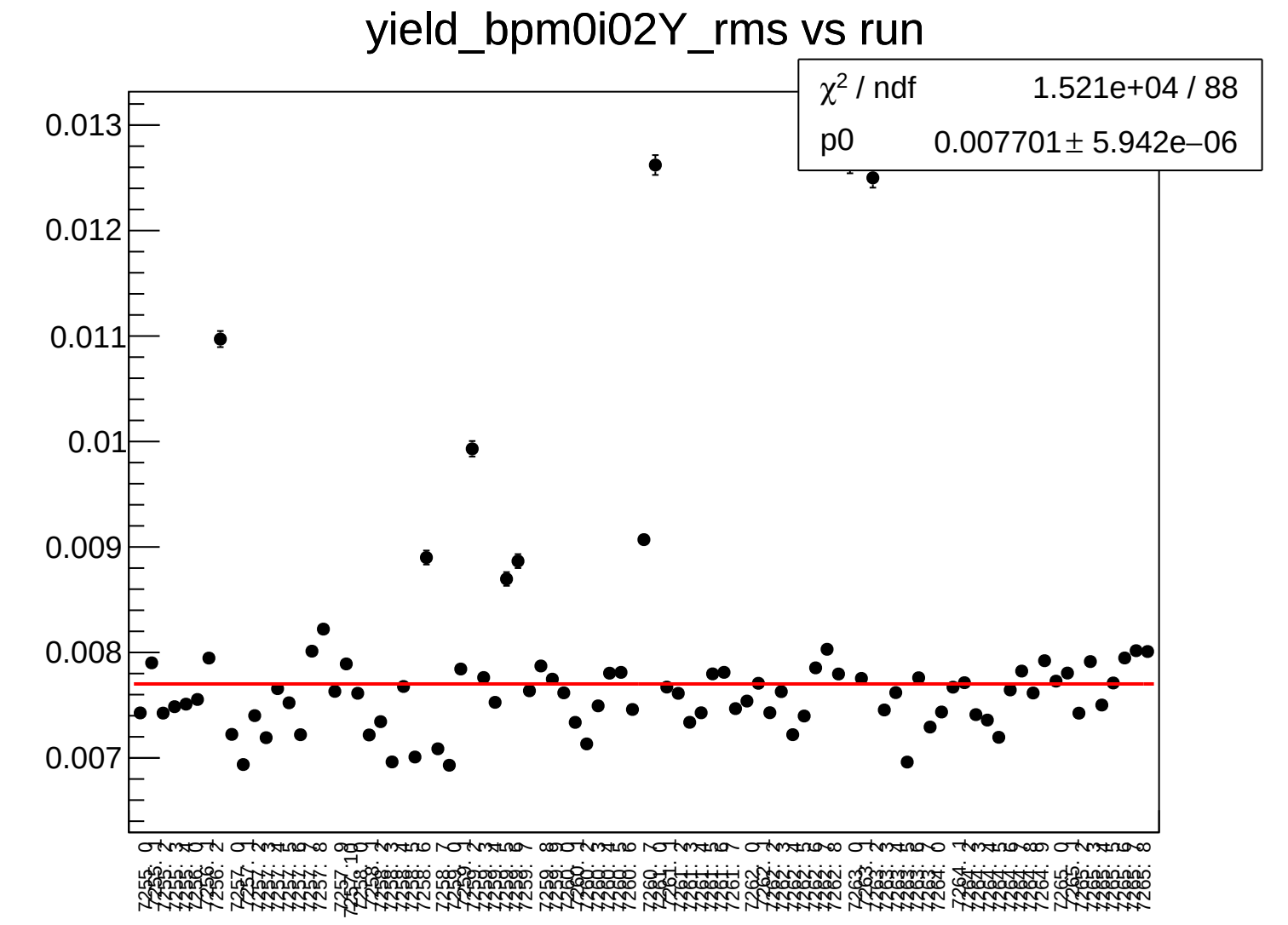

yield_bpm0i02X_mean vs run
χ² / ndf 1.651e+07 / 88
p0 −0.001493 ± 5.358e−06
pull
Entries 89
Mean 1.067e+04
Std Dev 0

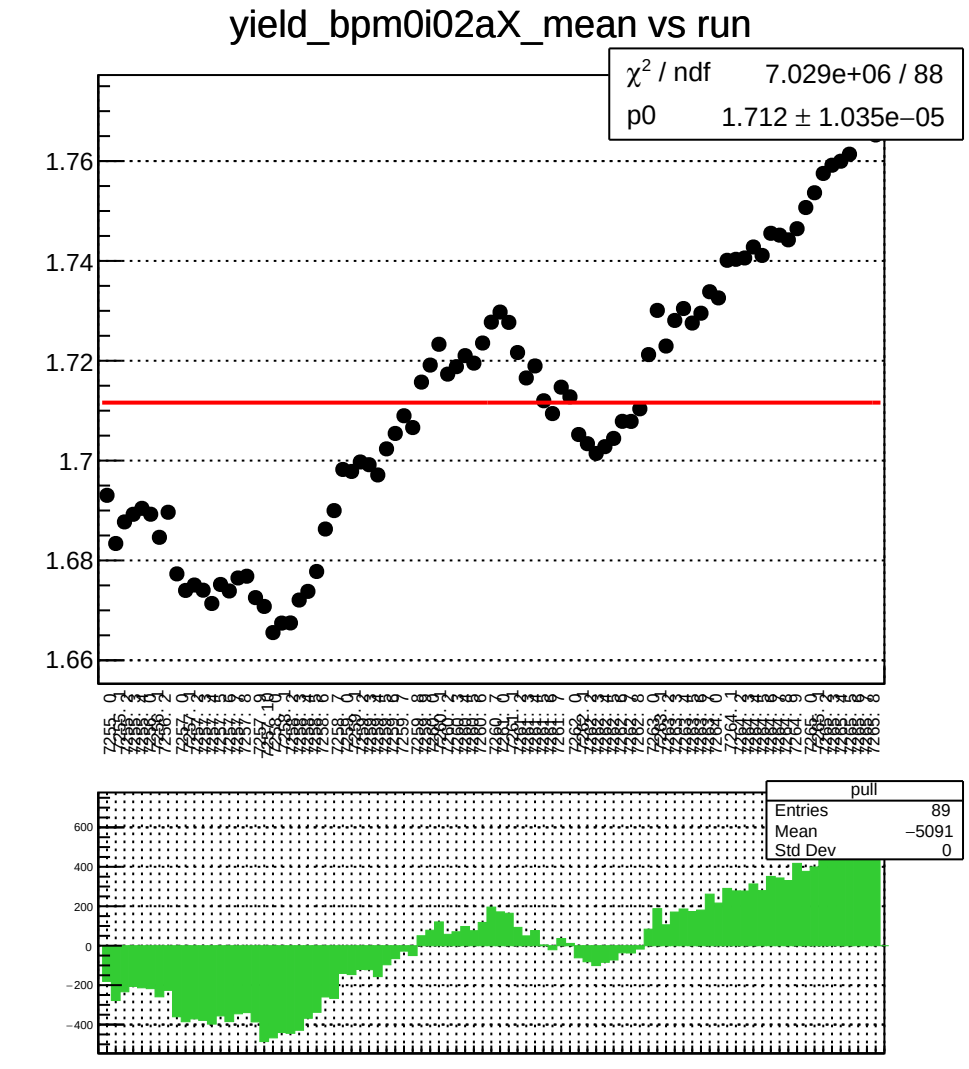

pull1D
Entries 89
Mean 0
Std Dev 0

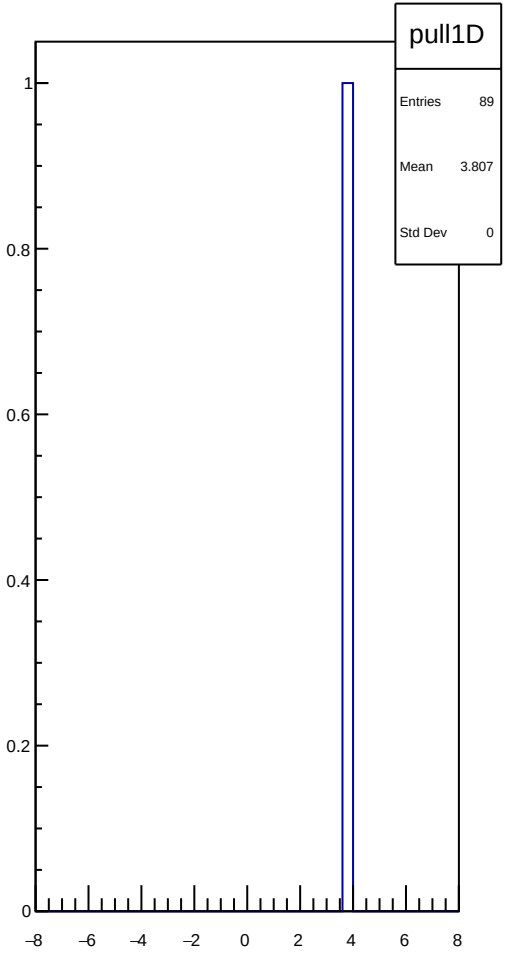

yield_bpm0i02X_rms vs run
χ² / ndf 1.104e+04 / 88
p0 0.004917 ± 3.789e−06
0.009
0.008
0.007
0.006
0.005
0.004

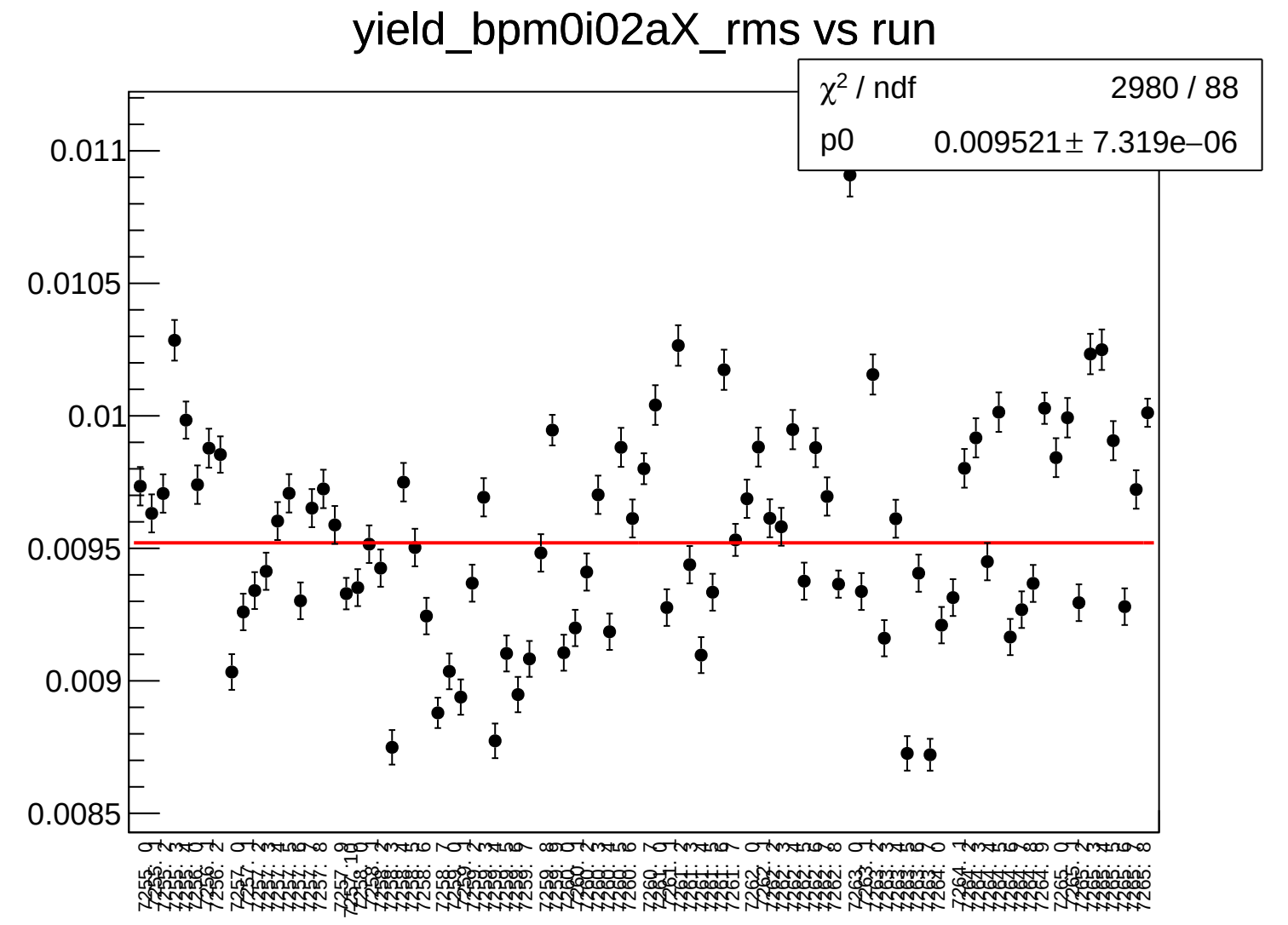

yield_bpm0i02Y_mean vs run
χ² / ndf 1.694e+07 / 88
p0 −2.468 ± 8.403e−06
−2.42
−2.44
−2.46
−2.48
−2.5
−2.52
pull
Entries 89
Mean −2572
Std Dev 0
600
400
200
0
−200
−400
−600
−800

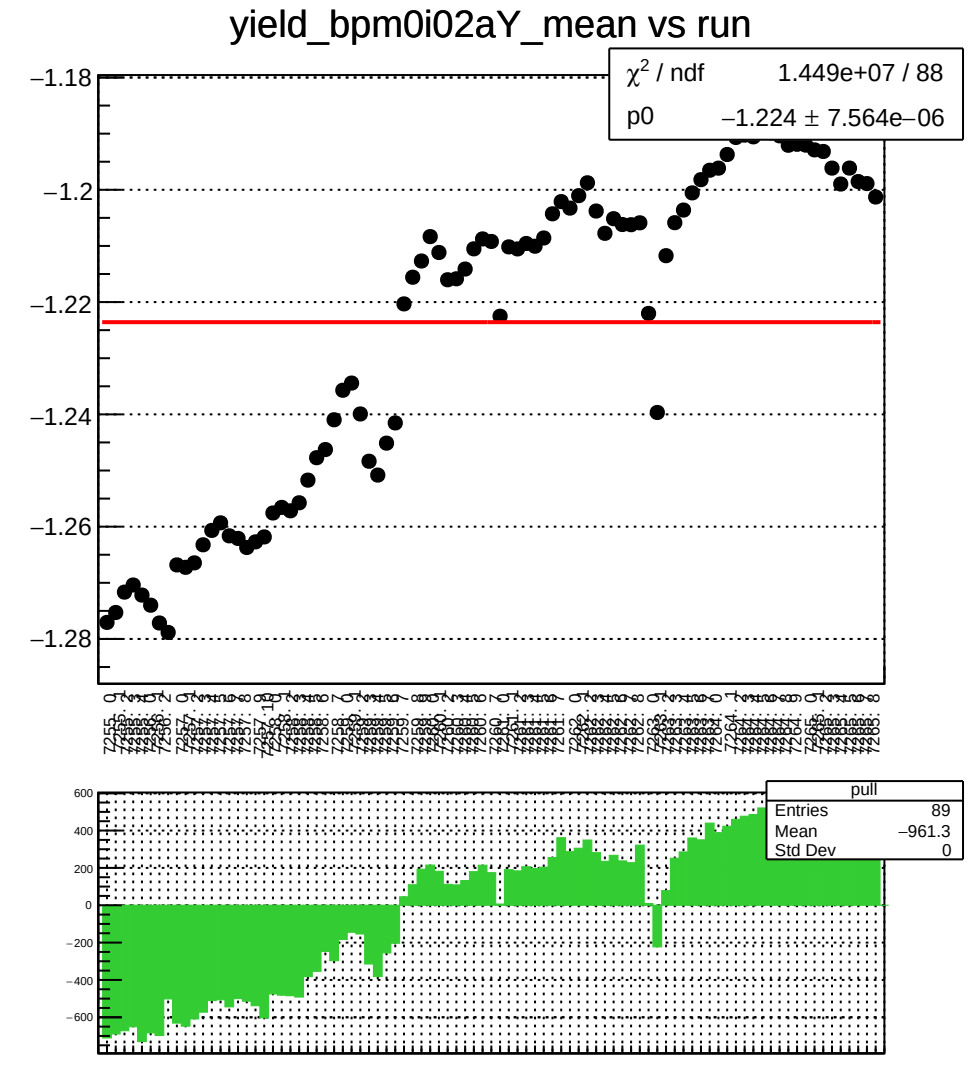

pull1D
Entries 89
Mean −3.45
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

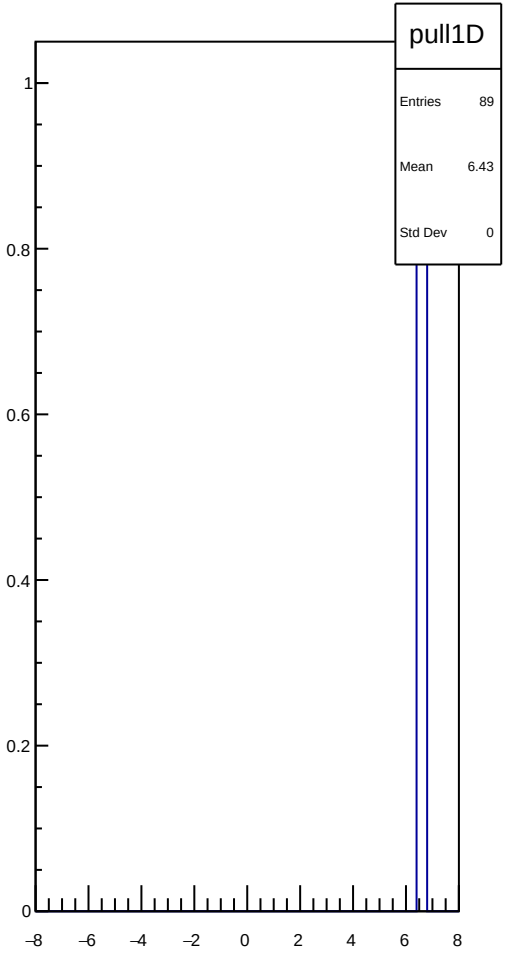

yield_bpm0i02Y_rms vs run
χ² / ndf 1.521e+04 / 88
p0 0.007701 ± 5.942e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007

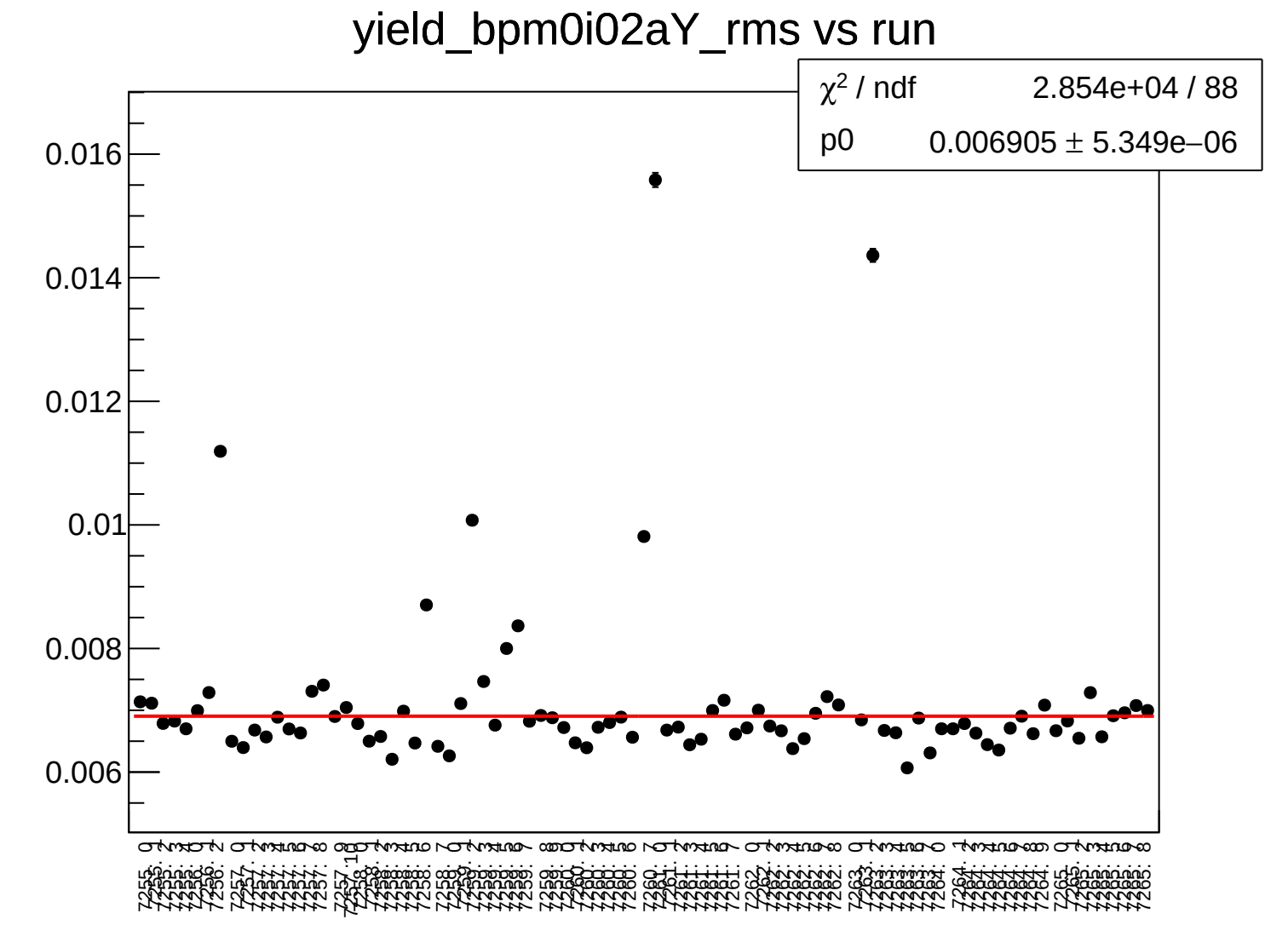

yield_bpm0i02aX_mean vs run
χ² / ndf 7.029e+06 / 88
p0 1.712 ± 1.035e−05
1.76
1.74
1.72
1.7
1.68
1.66
pull
Entries 89
Mean −5091
Std Dev 0
600
400
200
0
−200
−400

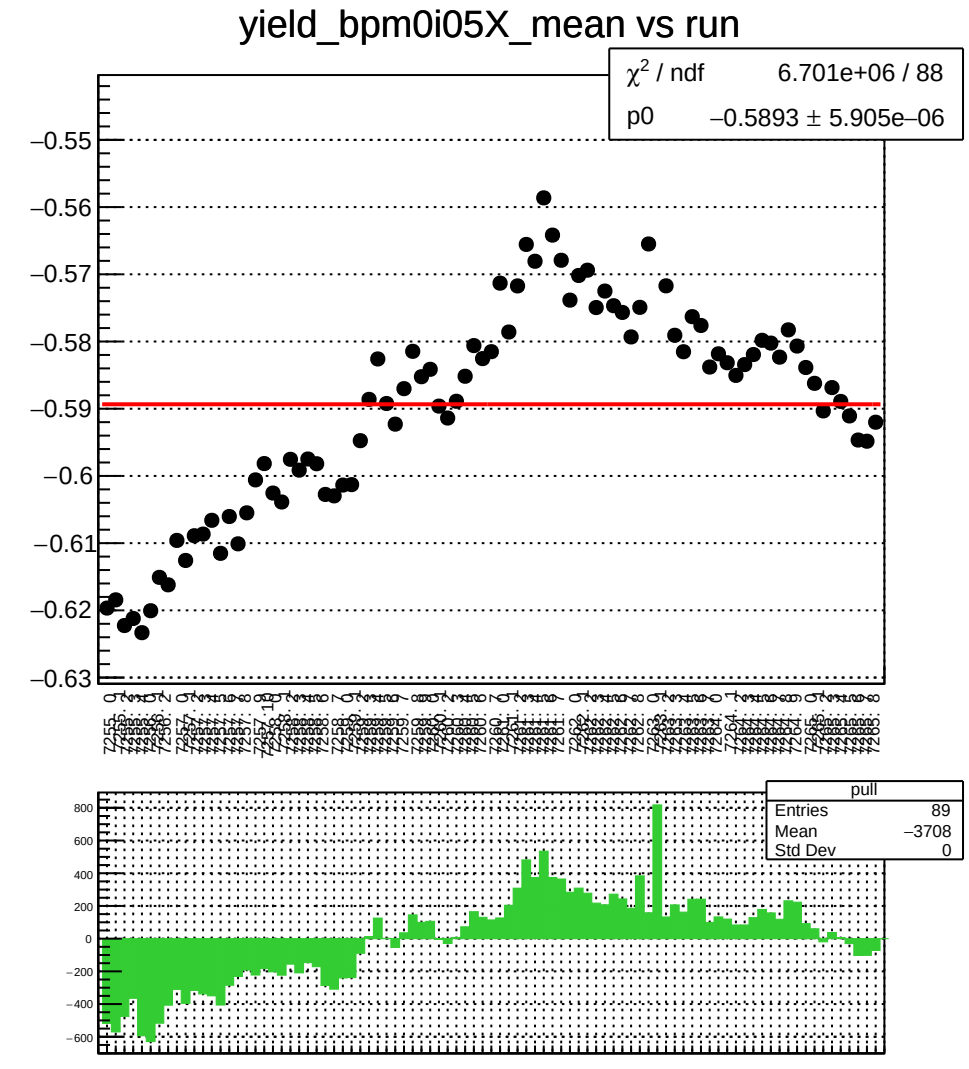

pull1D
Entries 89
Mean 3.807
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

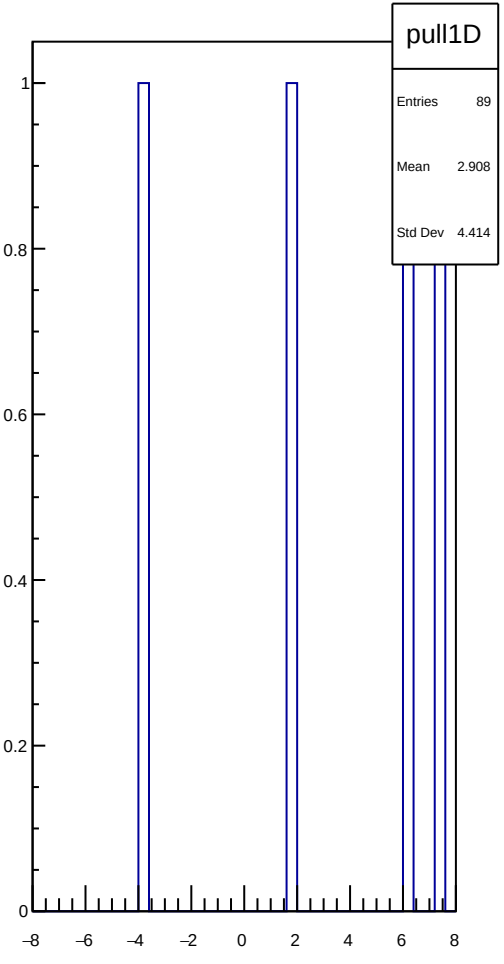

yield_bpm0i02aX_rms vs run
χ² / ndf 2980 / 88
p0 0.009521 ± 7.319e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085

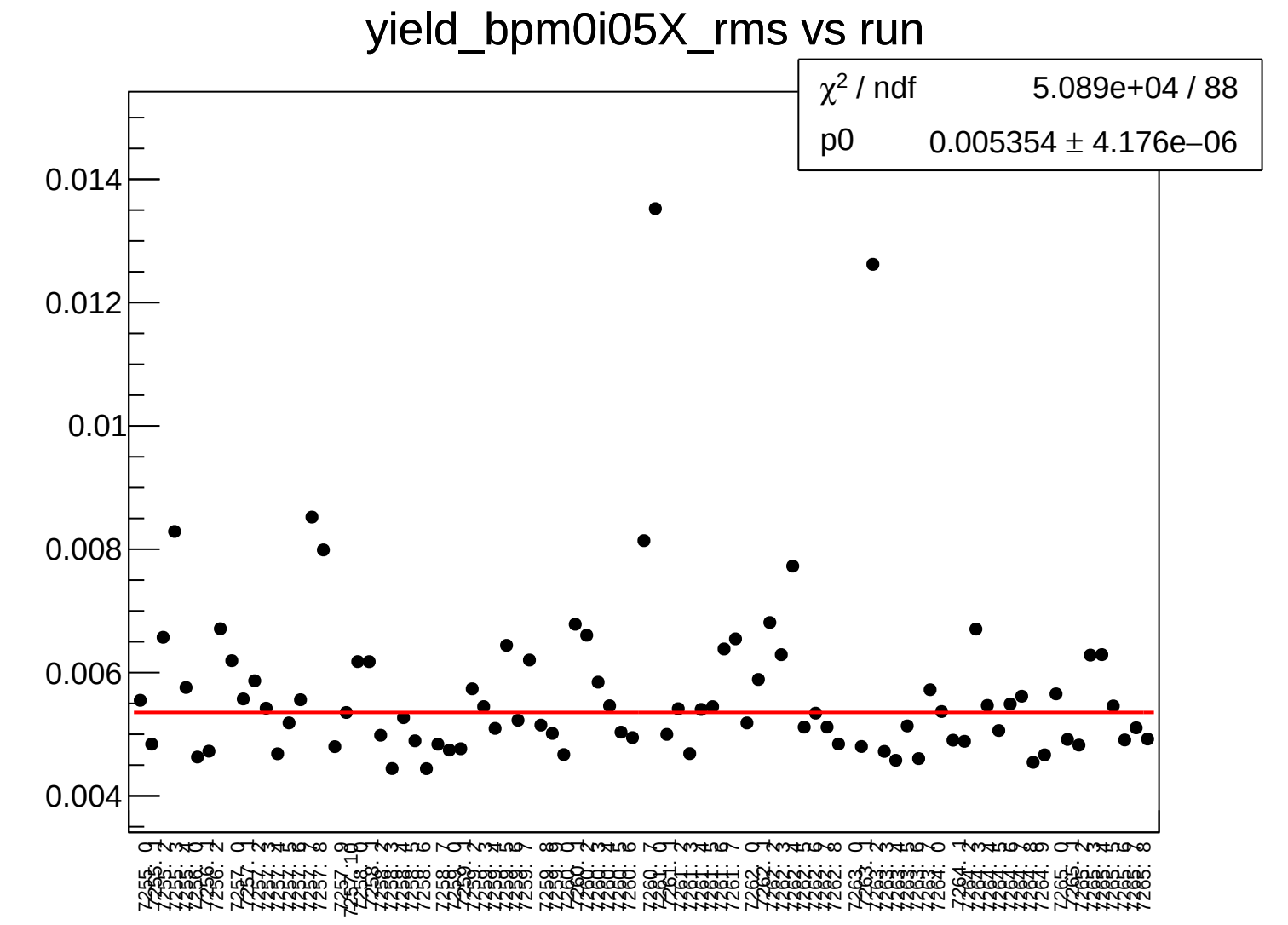

yield_bpm0i02aY_mean vs run
χ² / ndf 1.449e+07 / 88
p0 −1.224 ± 7.564e−06
−1.18
−1.2
−1.22
−1.24
−1.26
−1.28
pull
Entries 89
Mean −961.3
Std Dev 0
600
400
200
0
−200
−400
−600

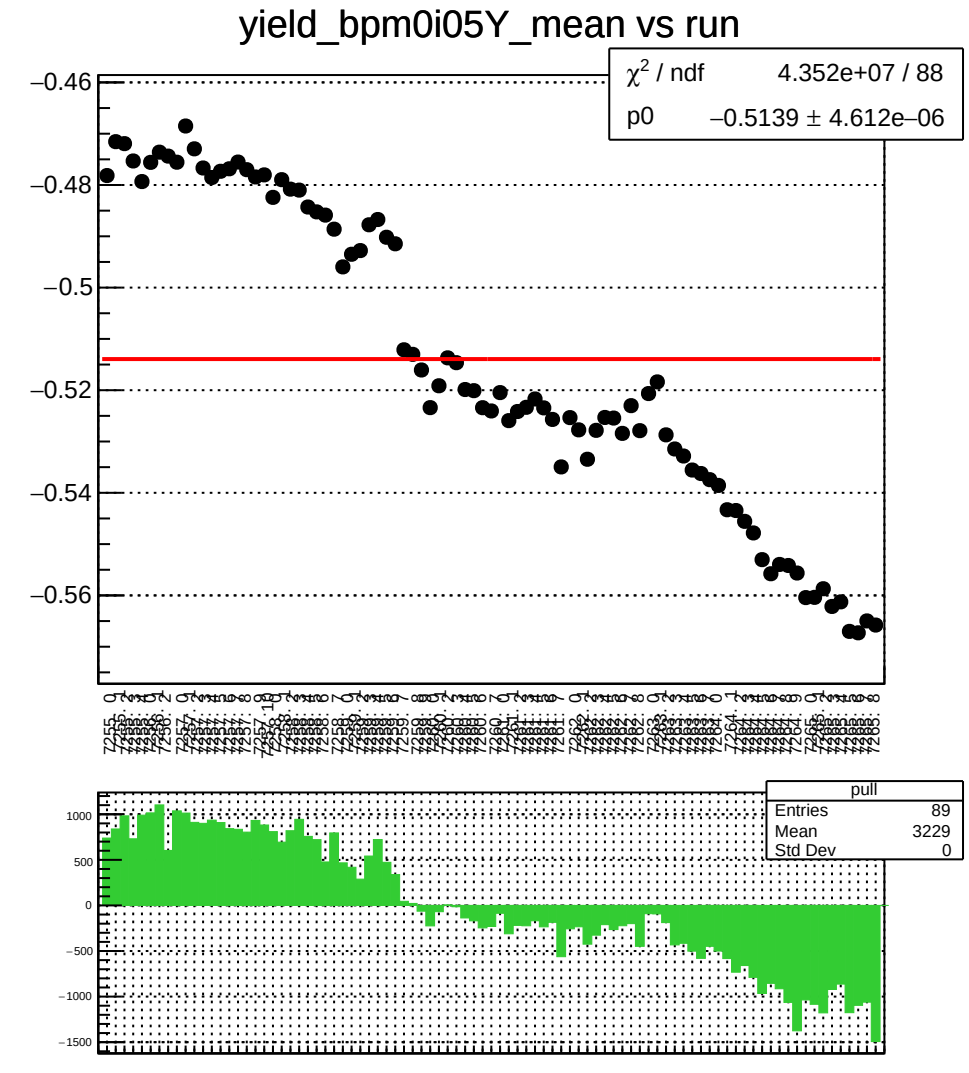

pull1D
Entries 89
Mean 6.43
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

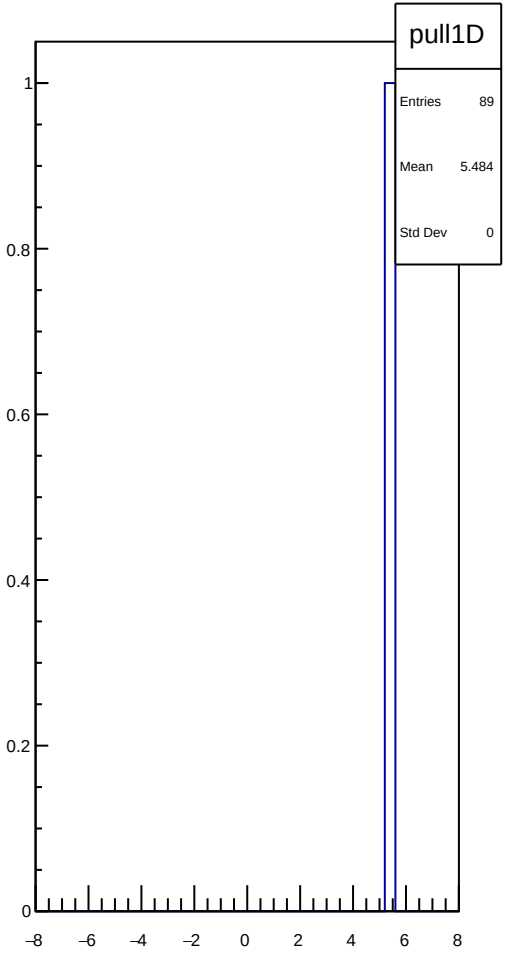

yield_bpm0i02aY_rms vs run
χ² / ndf 2.854e+04 / 88
p0 0.006905 ± 5.349e−06
0.016
0.014
0.012
0.01
0.008
0.006

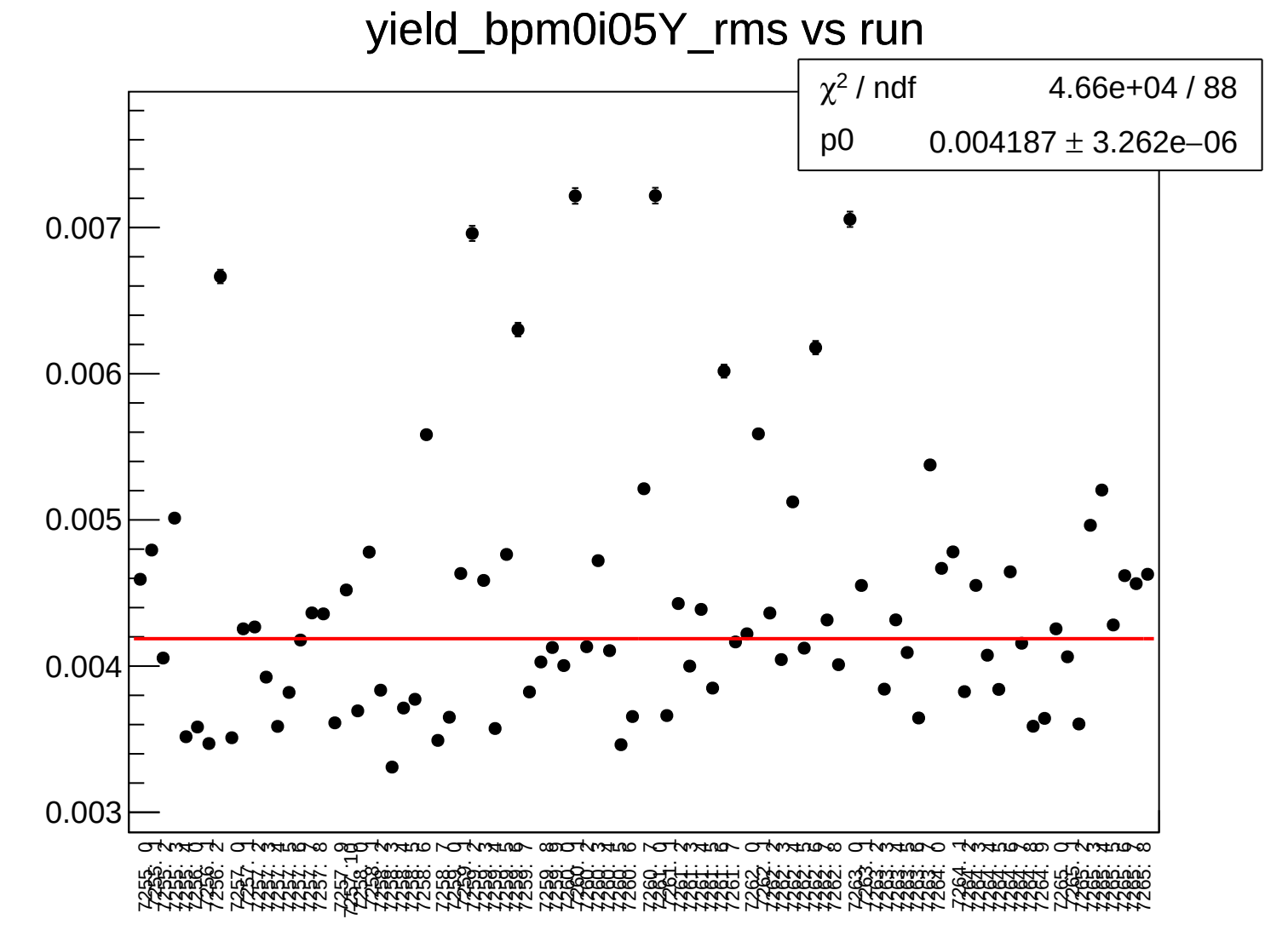

yield_bpm0i05X_mean vs run
χ² / ndf 6.701e+06 / 88
p0 −0.5893 ± 5.905e−06
−0.55
−0.56
−0.57
−0.58
−0.59
−0.6
−0.61
−0.62
−0.63
pull
Entries 89
Mean −3708
Std Dev 0
800
600
400
200
0
−200
−400
−600

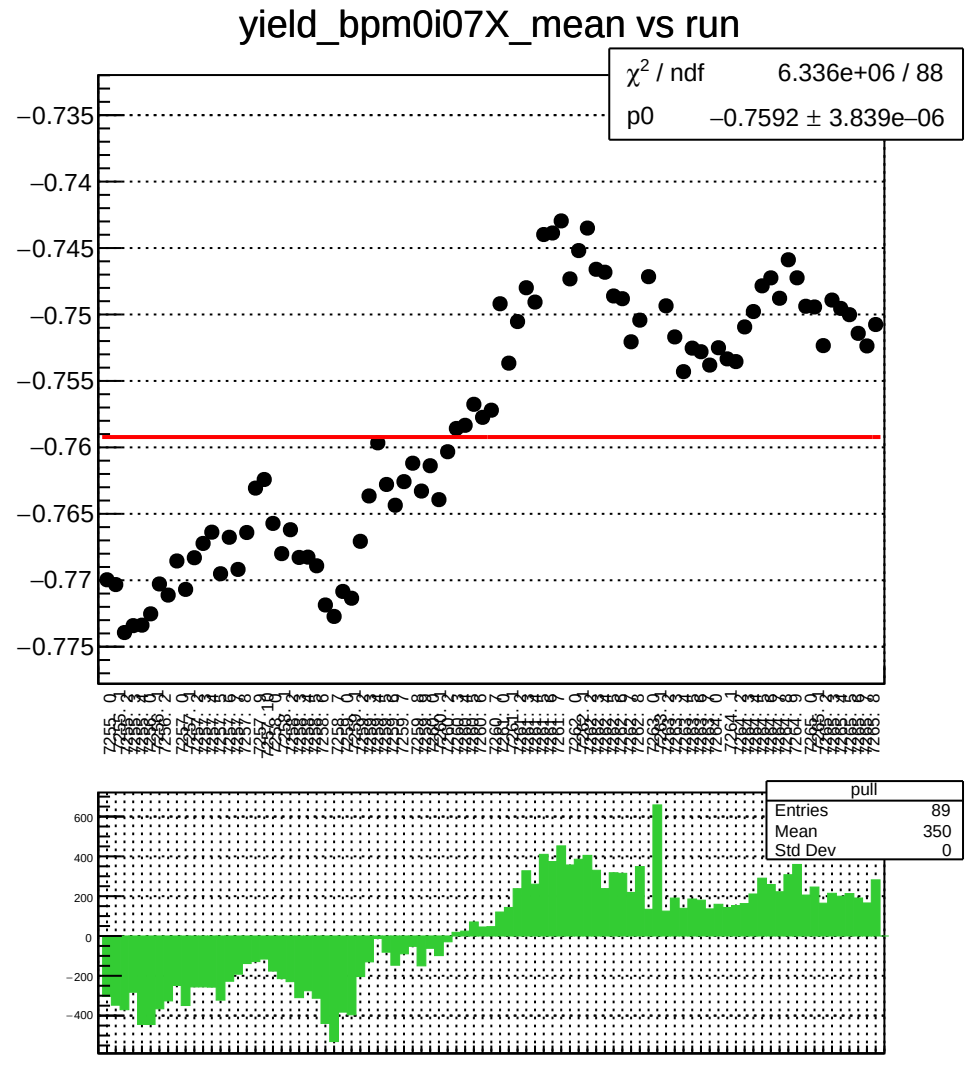

pull1D
Entries 89
Mean 2.908
Std Dev 4.414
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

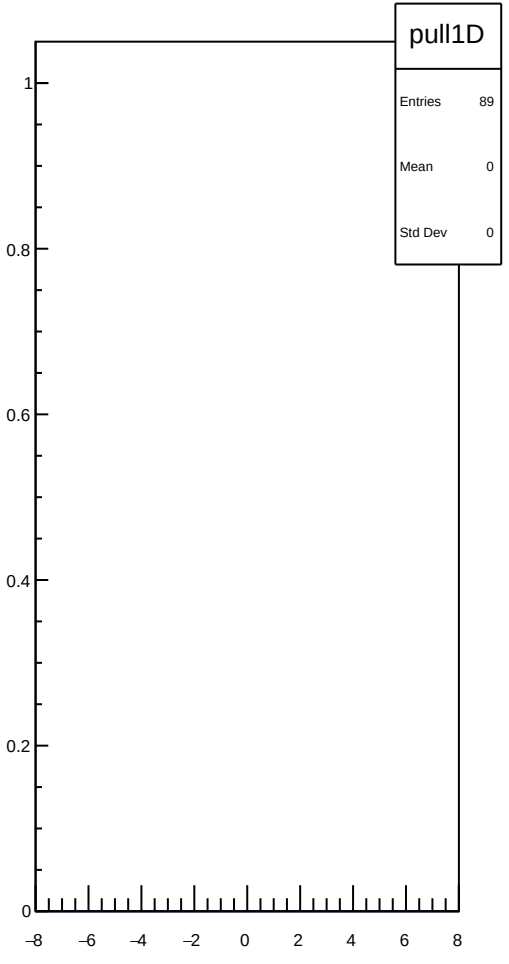

yield_bpm0i05X_rms vs run
χ^2 / ndf 5.089e+04 / 88
p0 0.005354 ± 4.176e−06
0.014
0.012
0.01
0.008
0.006
0.004

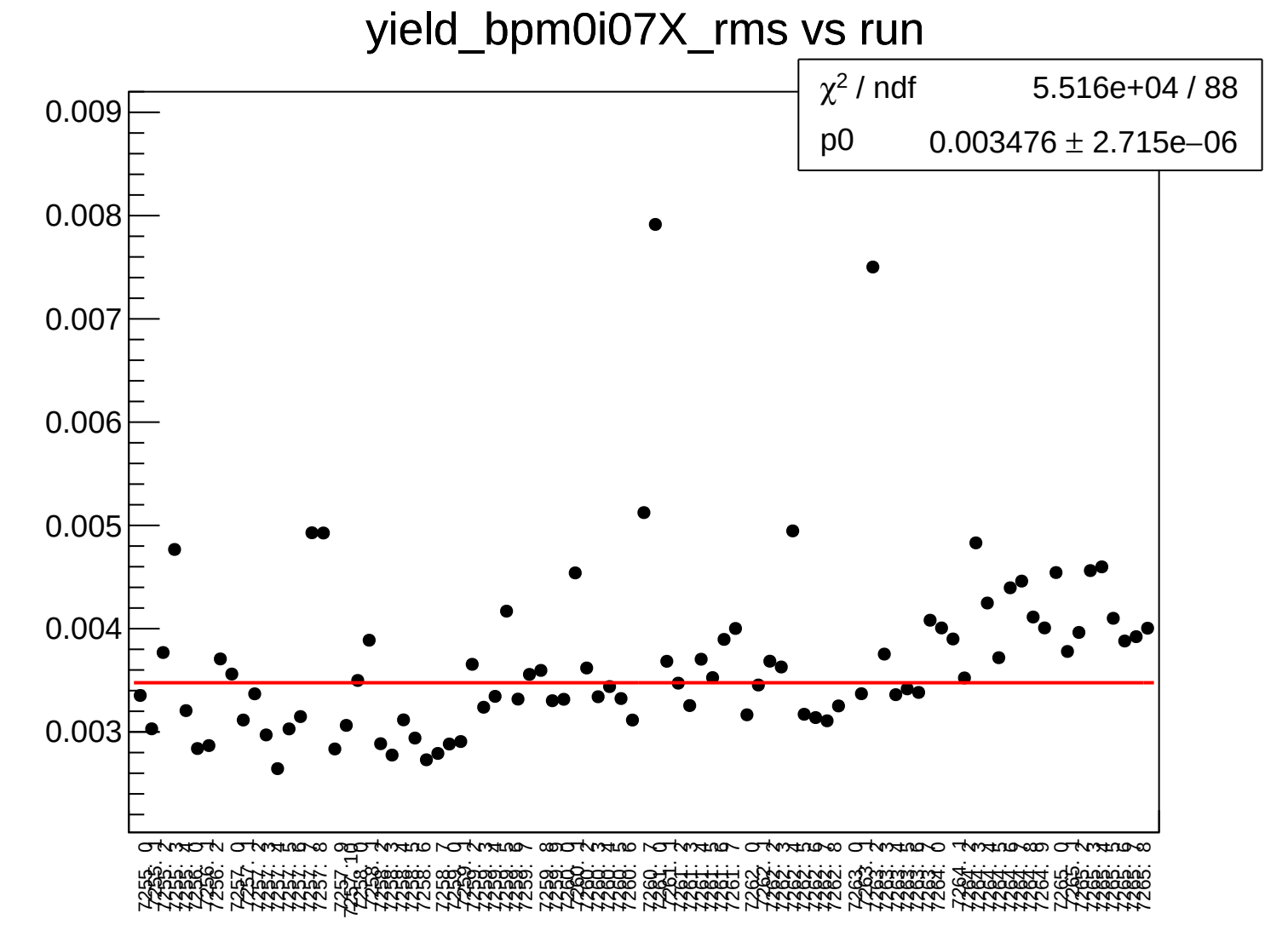

yield_bpm0i05Y_mean vs run
χ² / ndf 4.352e+07 / 88
p0 −0.5139 ± 4.612e−06
−0.46
−0.48
−0.5
−0.52
−0.54
−0.56
pull
Entries 89
Mean 3229
Std Dev 0
1000
500
0
−500
−1000
−1500

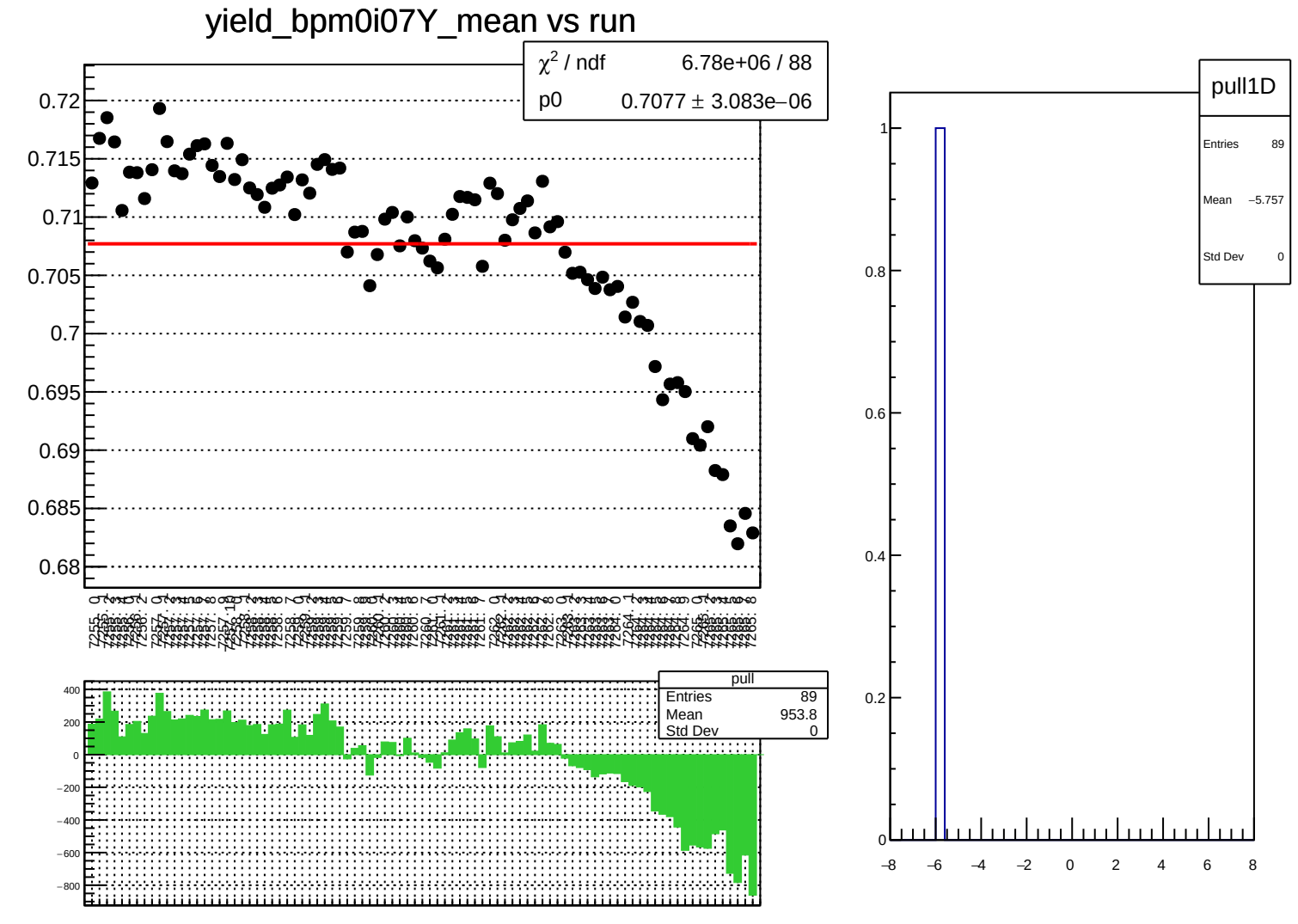

pull1D
Entries 89
Mean 5.484
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

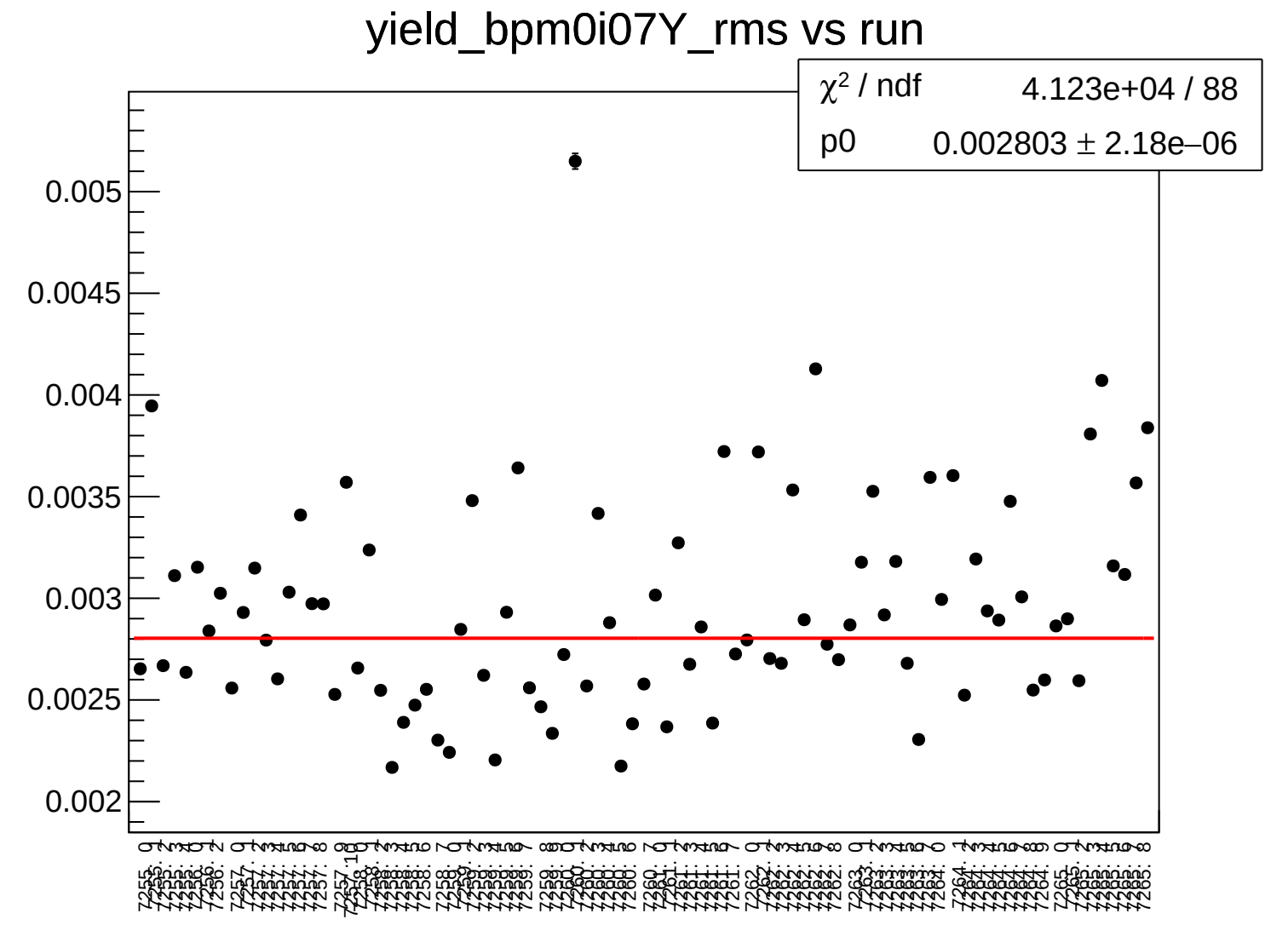

yield_bpm0i05Y_rms vs run
χ² / ndf 4.66e+04 / 88
p0 0.004187 ± 3.262e−06
0.007
0.006
0.005
0.004
0.003

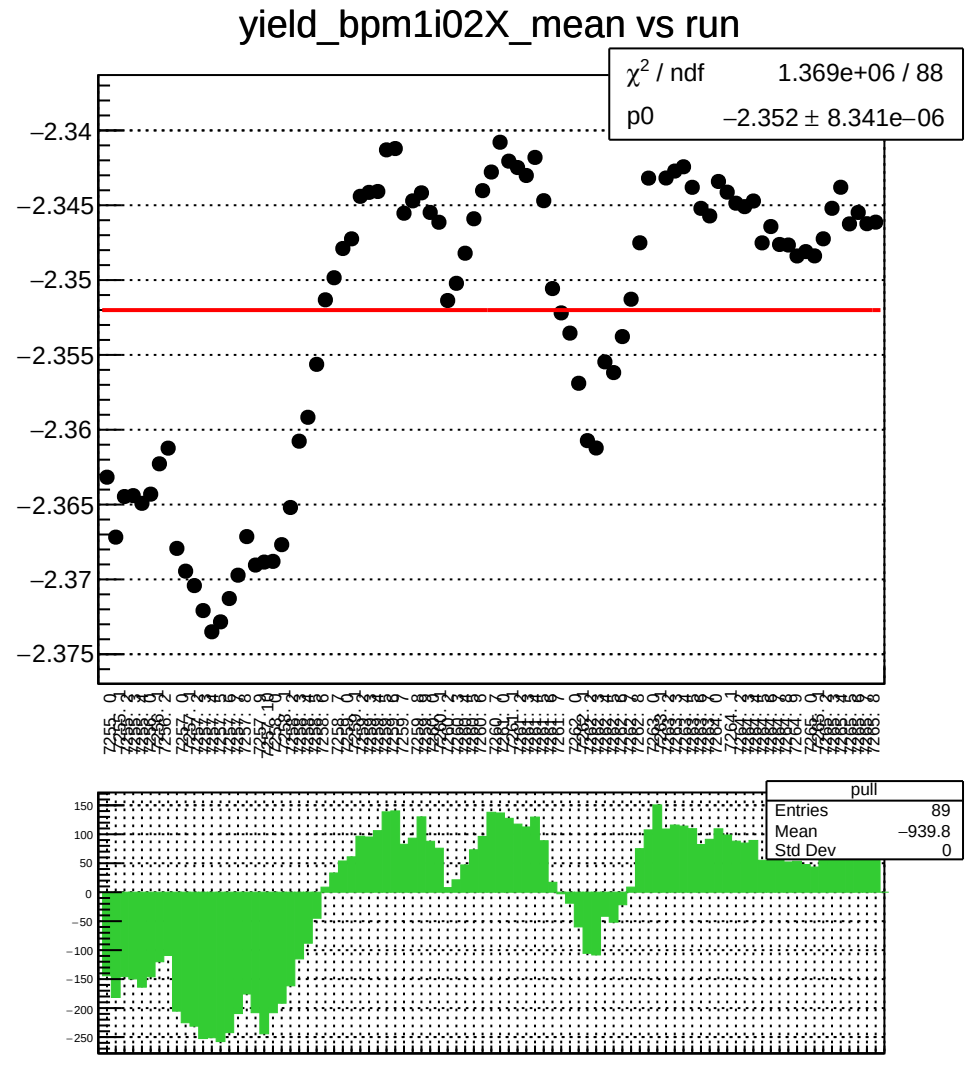

yield_bpm0i07X_mean vs run
χ² / ndf 6.336e+06 / 88
p0 −0.7592 ± 3.839e−06
−0.735
−0.74
−0.745
−0.75
−0.755
−0.76
−0.765
−0.77
−0.775
pull
Entries 89
Mean 350
Std Dev 0
600
400
200
0
−200
−400

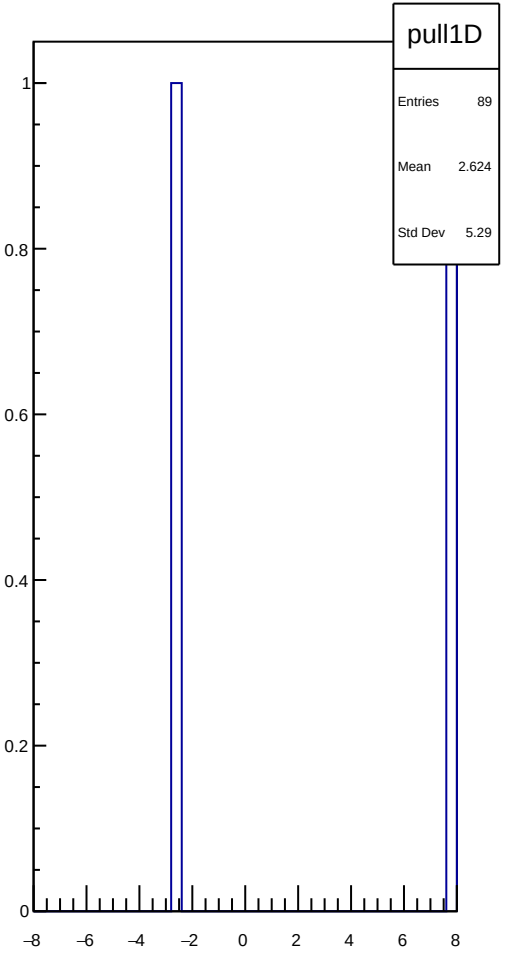

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

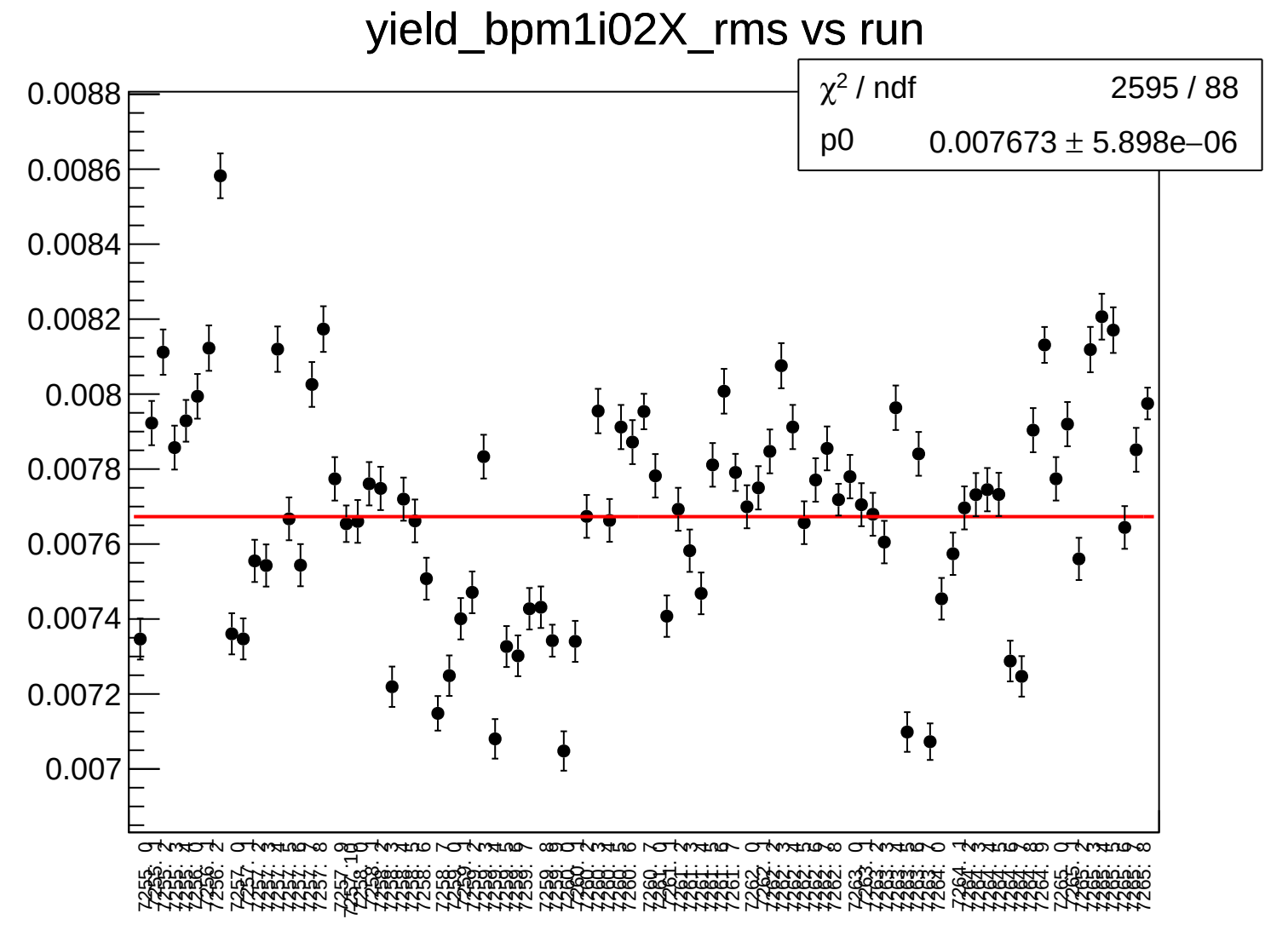

yield_bpm0i07X_rms vs run
χ^2 / ndf 5.516e+04 / 88
p0 0.003476 ± 2.715e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

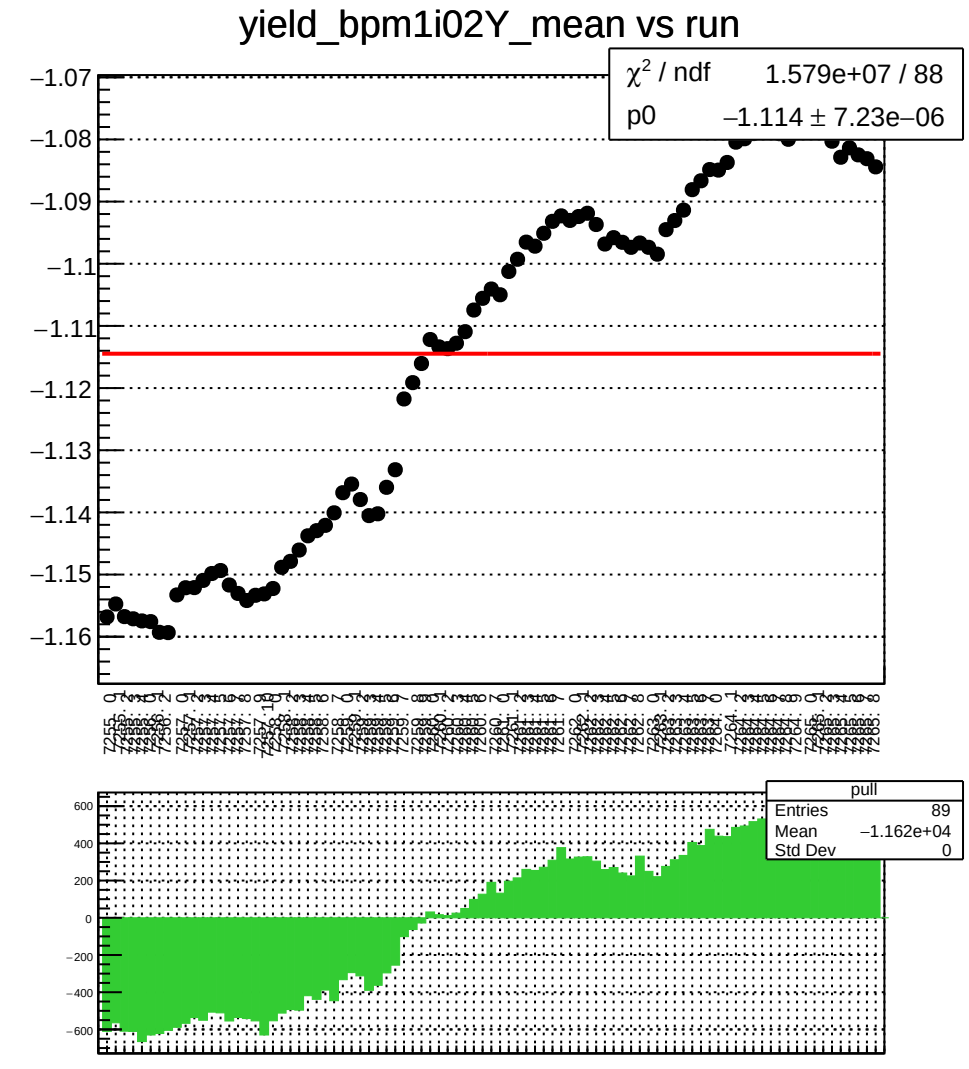

yield_bpm0i07Y_mean vs run
χ² / ndf 6.78e+06 / 88
p0 0.7077 ± 3.083e−06
0.72
0.715
0.71
0.705
0.7
0.695
0.69
0.685
0.68
pull
Entries 89
Mean 953.8
Std Dev 0
400
200
0
−200
−400
−600
−800
pull1D
Entries 89
Mean −5.757
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

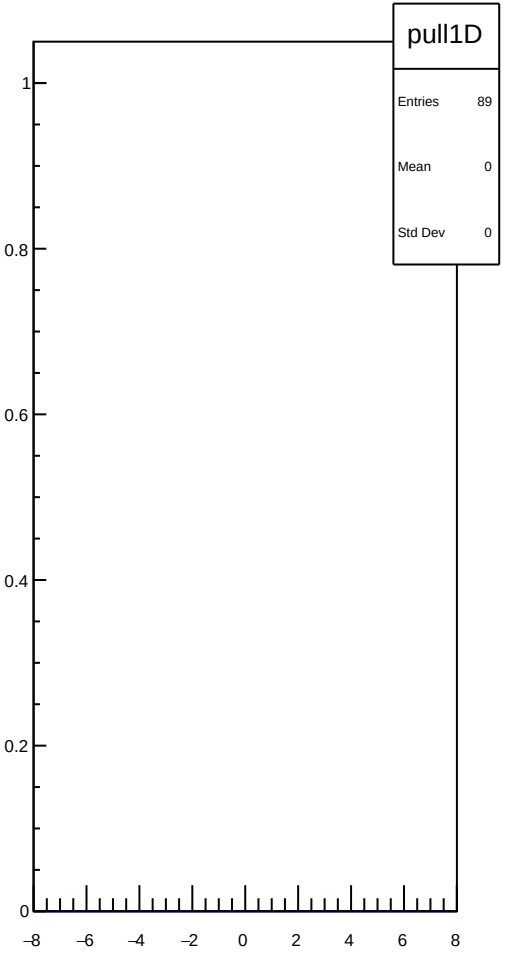

yield_bpm0i07Y_rms vs run
χ² / ndf 4.123e+04 / 88
p0 0.002803 ± 2.18e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

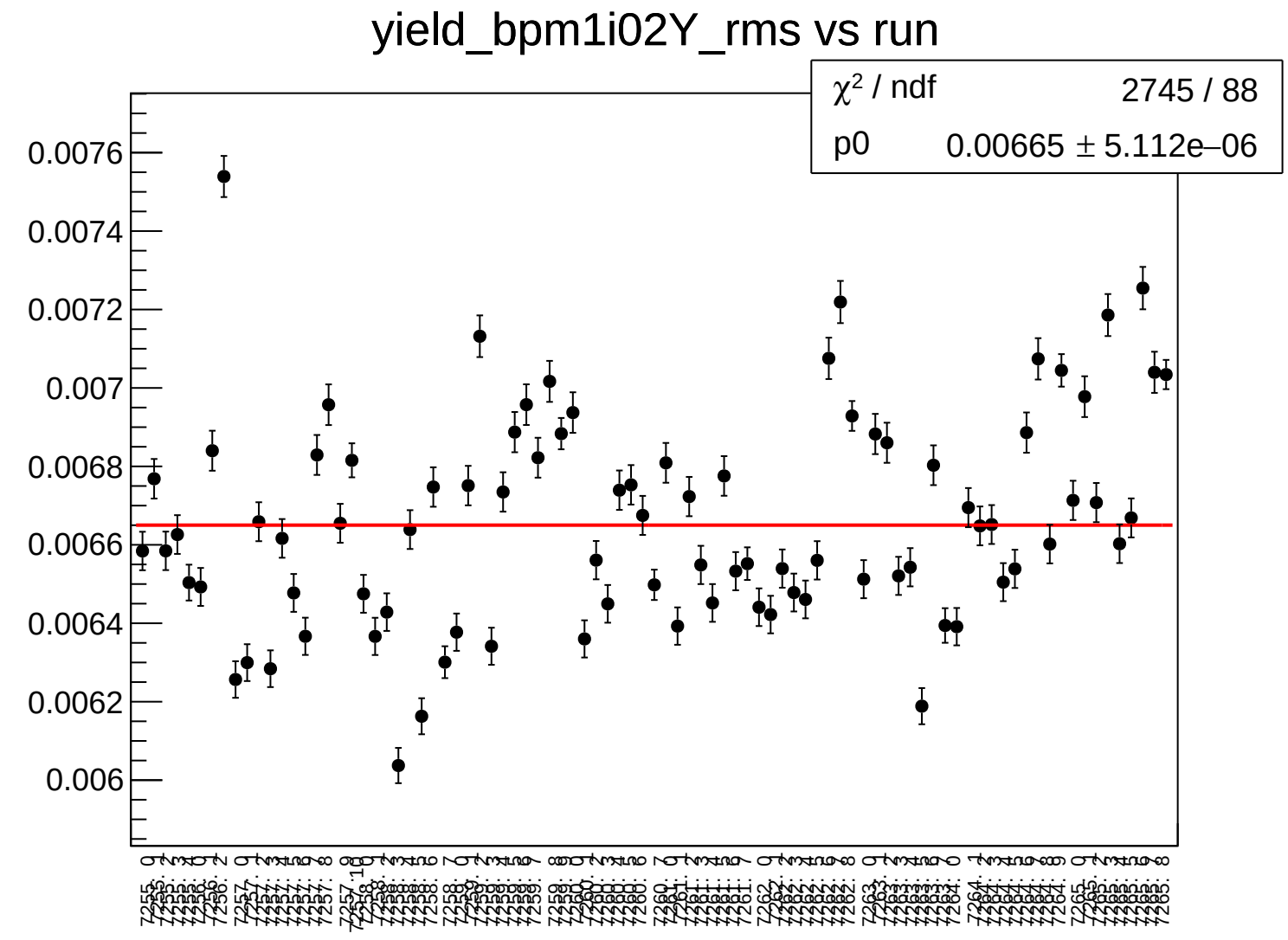

yield_bpm1i02X_mean vs run
χ² / ndf 1.369e+06 / 88
p0 −2.352 ± 8.341e−06
−2.34
−2.345
−2.35
−2.355
−2.36
−2.365
−2.37
−2.375
pull
Entries 89
Mean −939.8
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

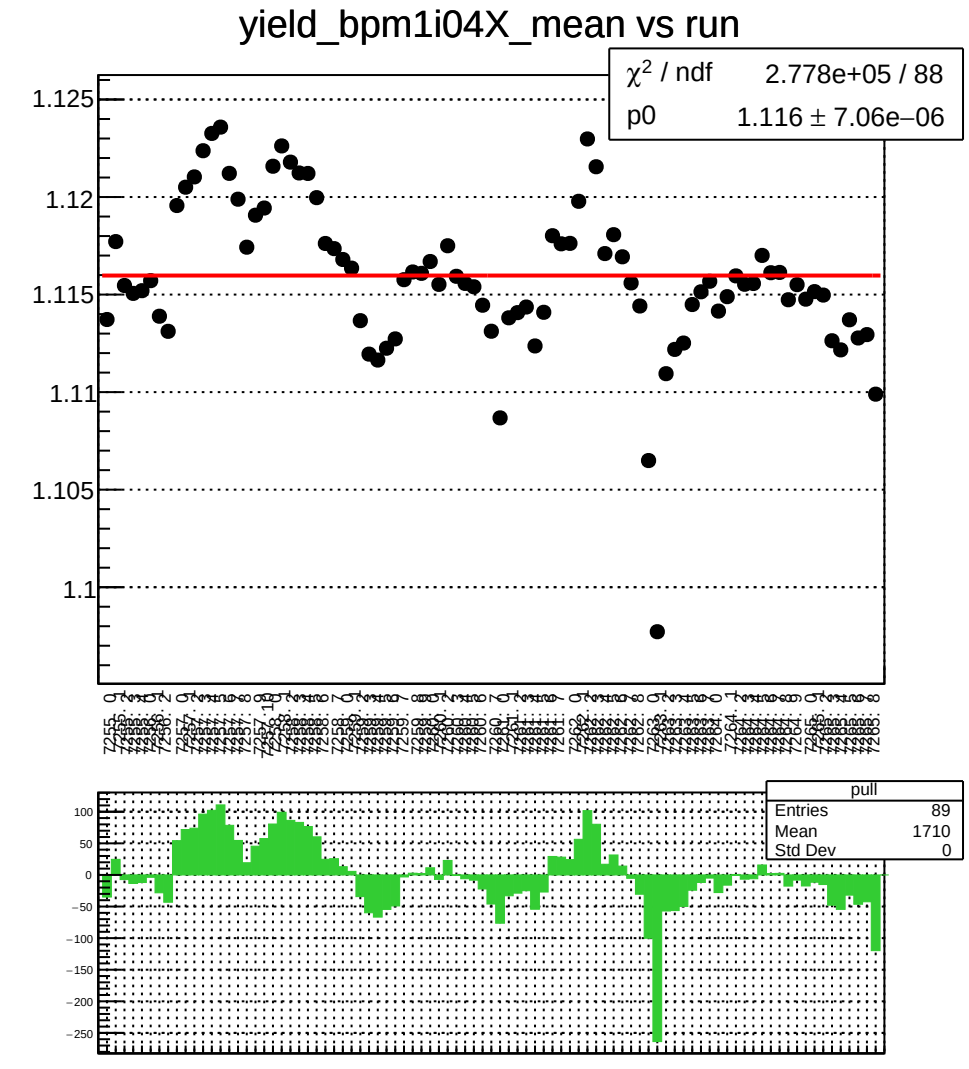

pull1D
Entries 89
Mean 2.624
Std Dev 5.29
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

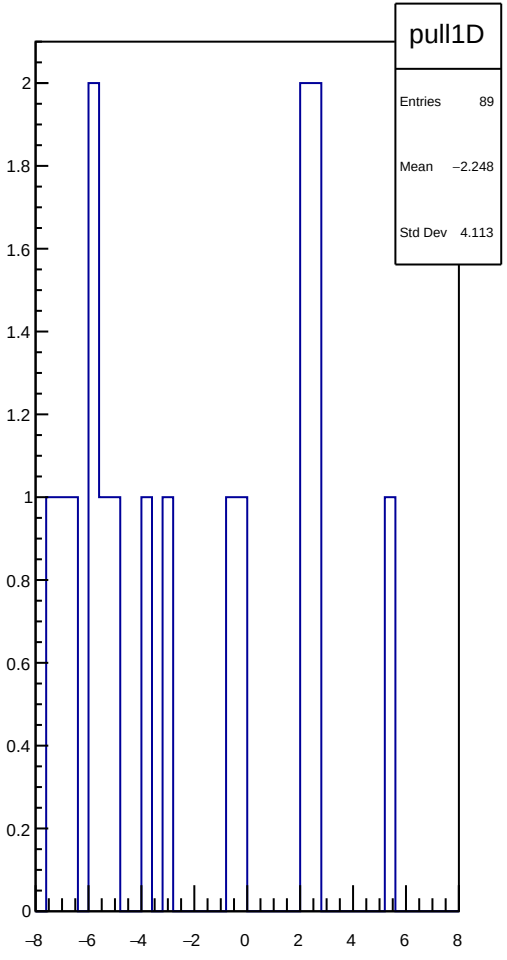

yield_bpm1i02X_rms vs run
χ² / ndf 2595 / 88
p0 0.007673 ± 5.898e−06
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007

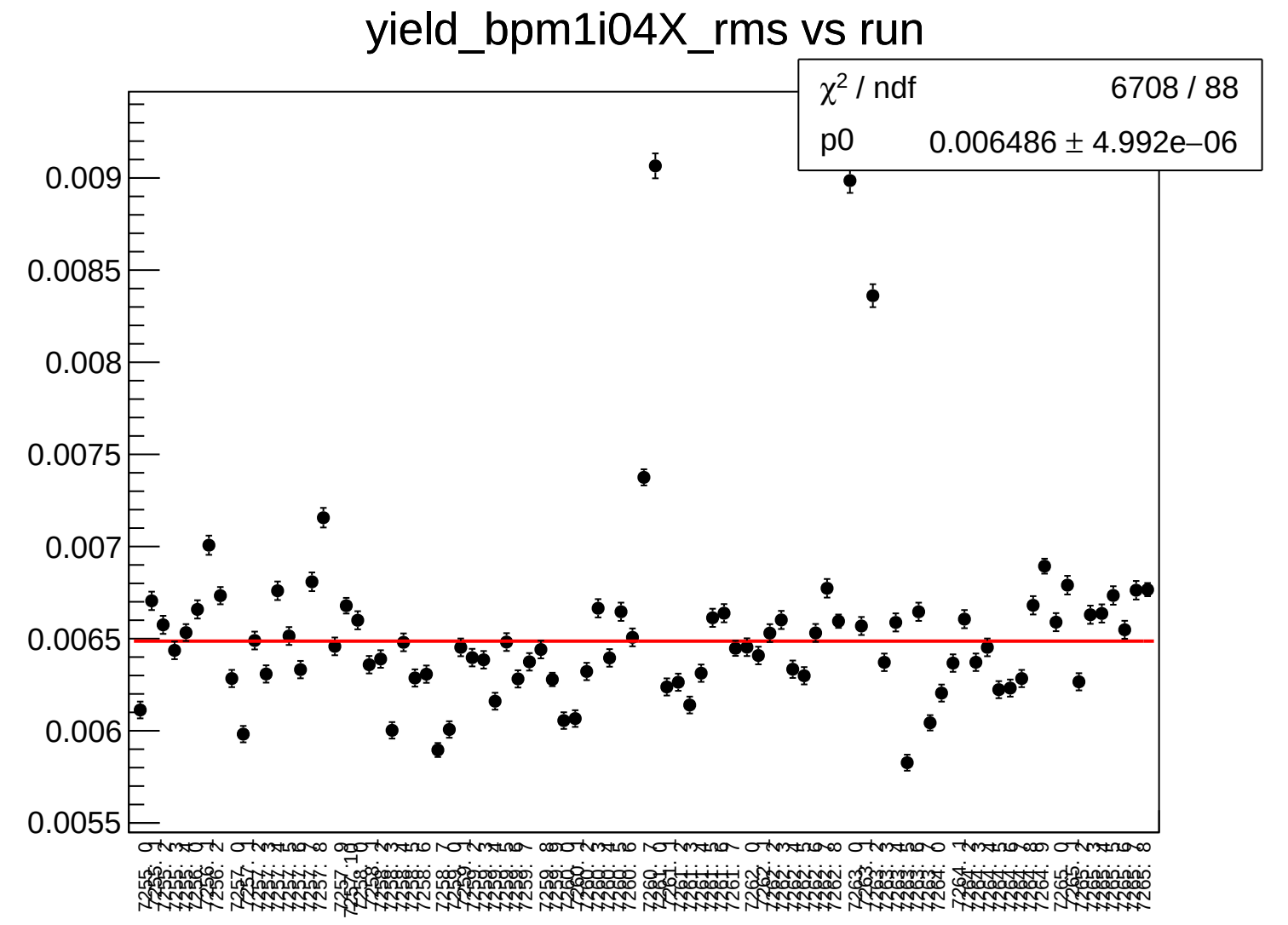

yield_bpm1i02Y_mean vs run
χ² / ndf 1.579e+07 / 88
p0 –1.114 ± 7.23e–06
pull
Entries 89
Mean –1.162e+04
Std Dev 0

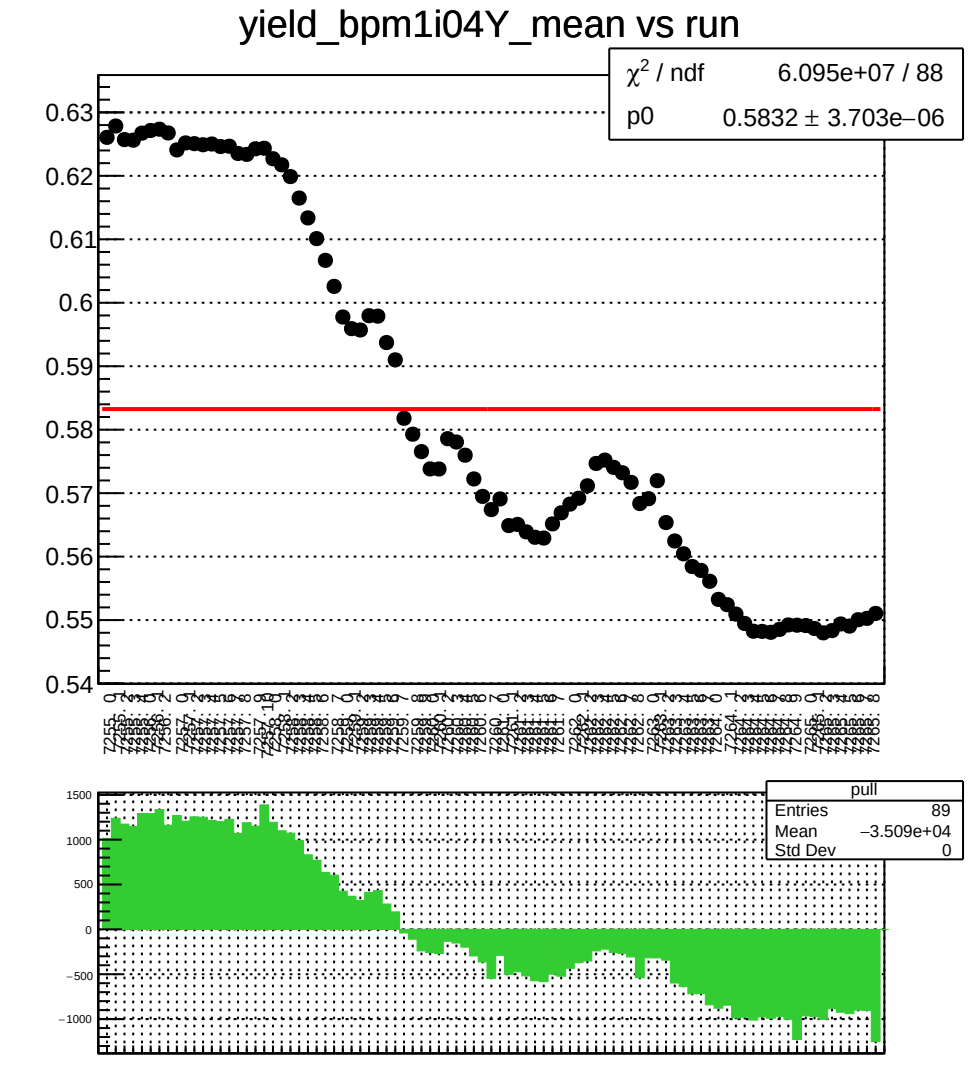

pull1D
Entries 89
Mean 0
Std Dev 0

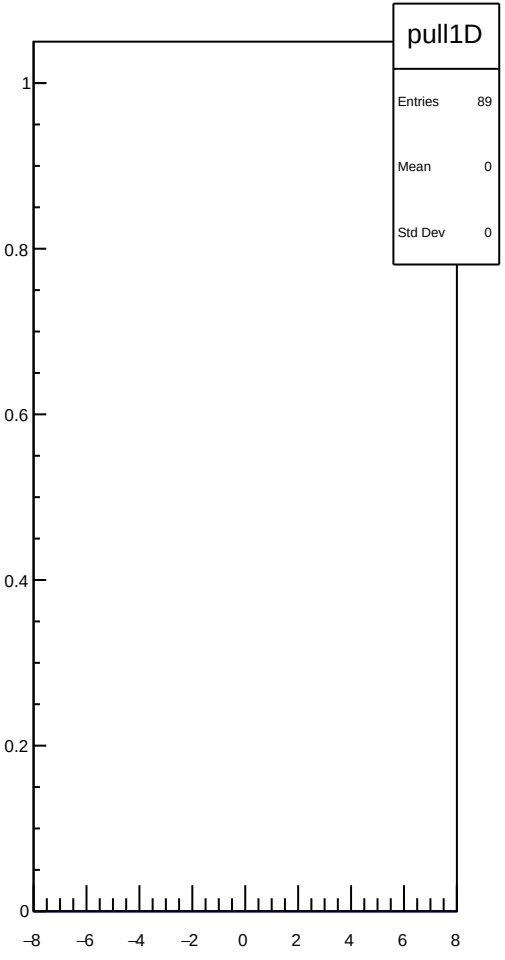

yield_bpm1i02Y_rms vs run
χ² / ndf 2745 / 88
p0 0.00665 ± 5.112e–06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006

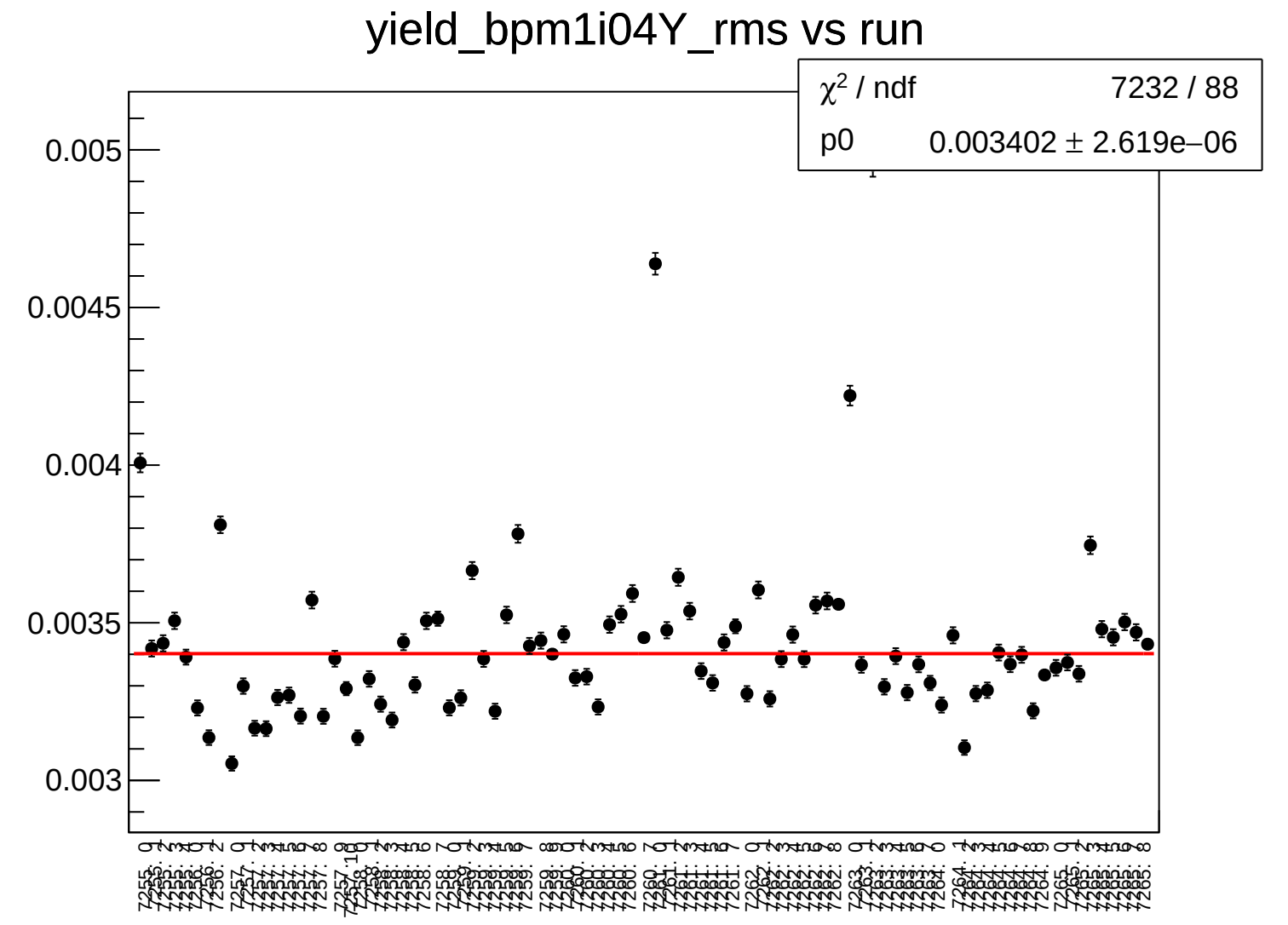

yield_bpm1i04X_mean vs run
χ² / ndf 2.778e+05 / 88
p0 1.116 ± 7.06e−06
1.125
1.12
1.115
1.11
1.105
1.1
pull
Entries 89
Mean 1710
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

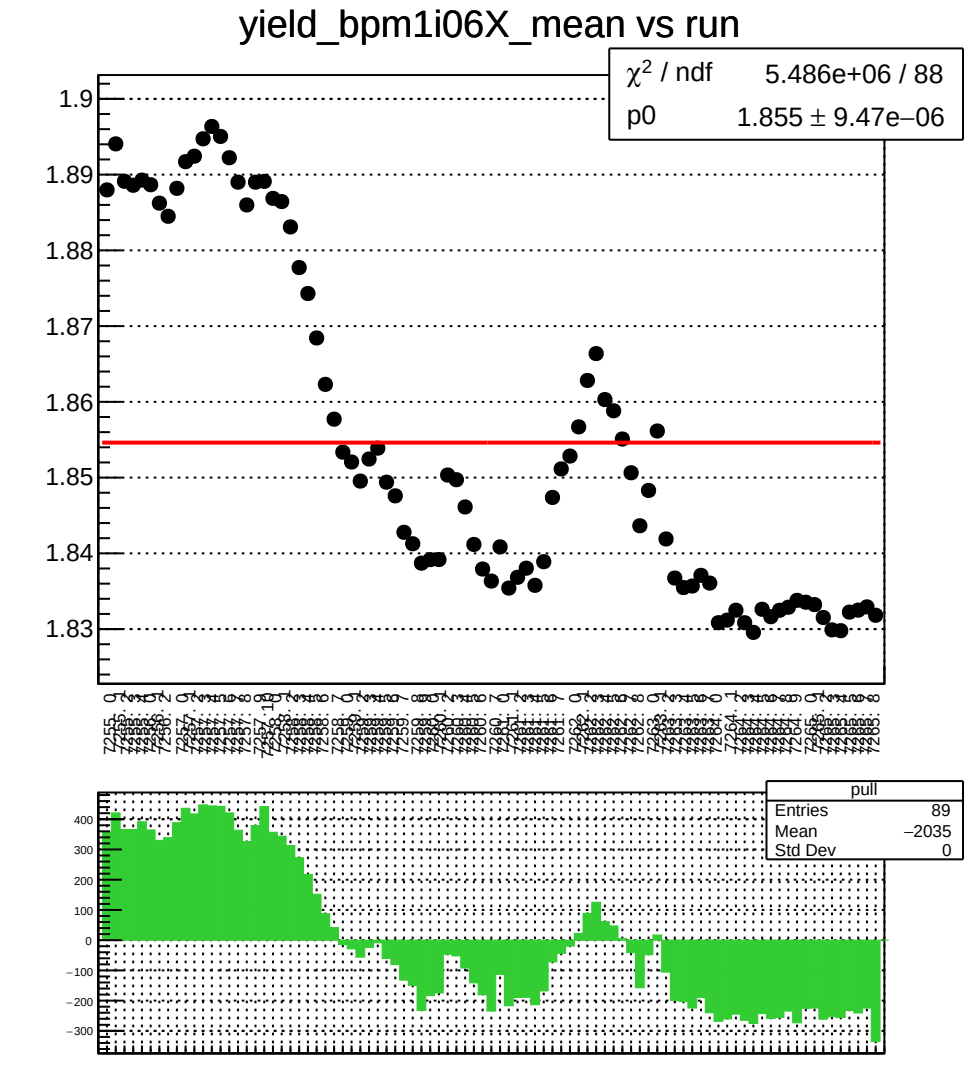

pull1D
Entries 89
Mean −2.248
Std Dev 4.113
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

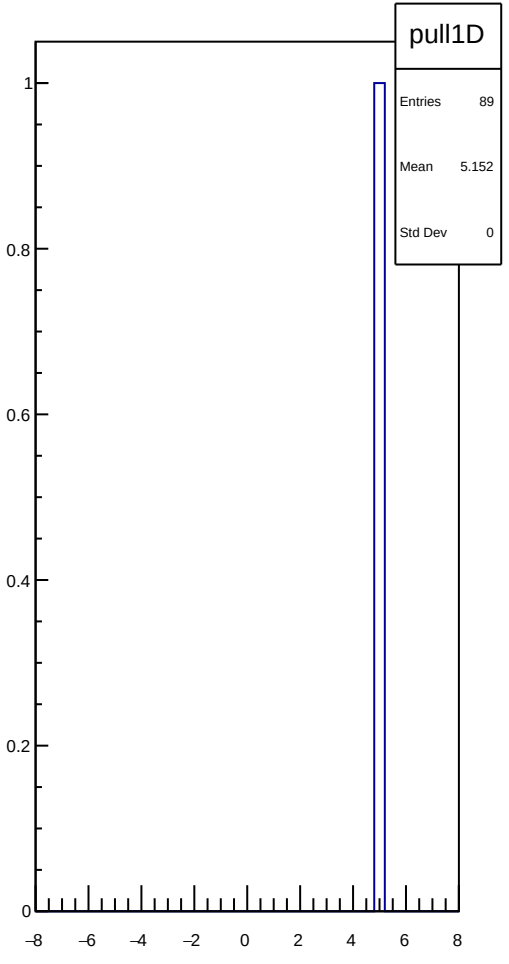

yield_bpm1i04X_rms vs run
χ² / ndf 6708 / 88
p0 0.006486 ± 4.992e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

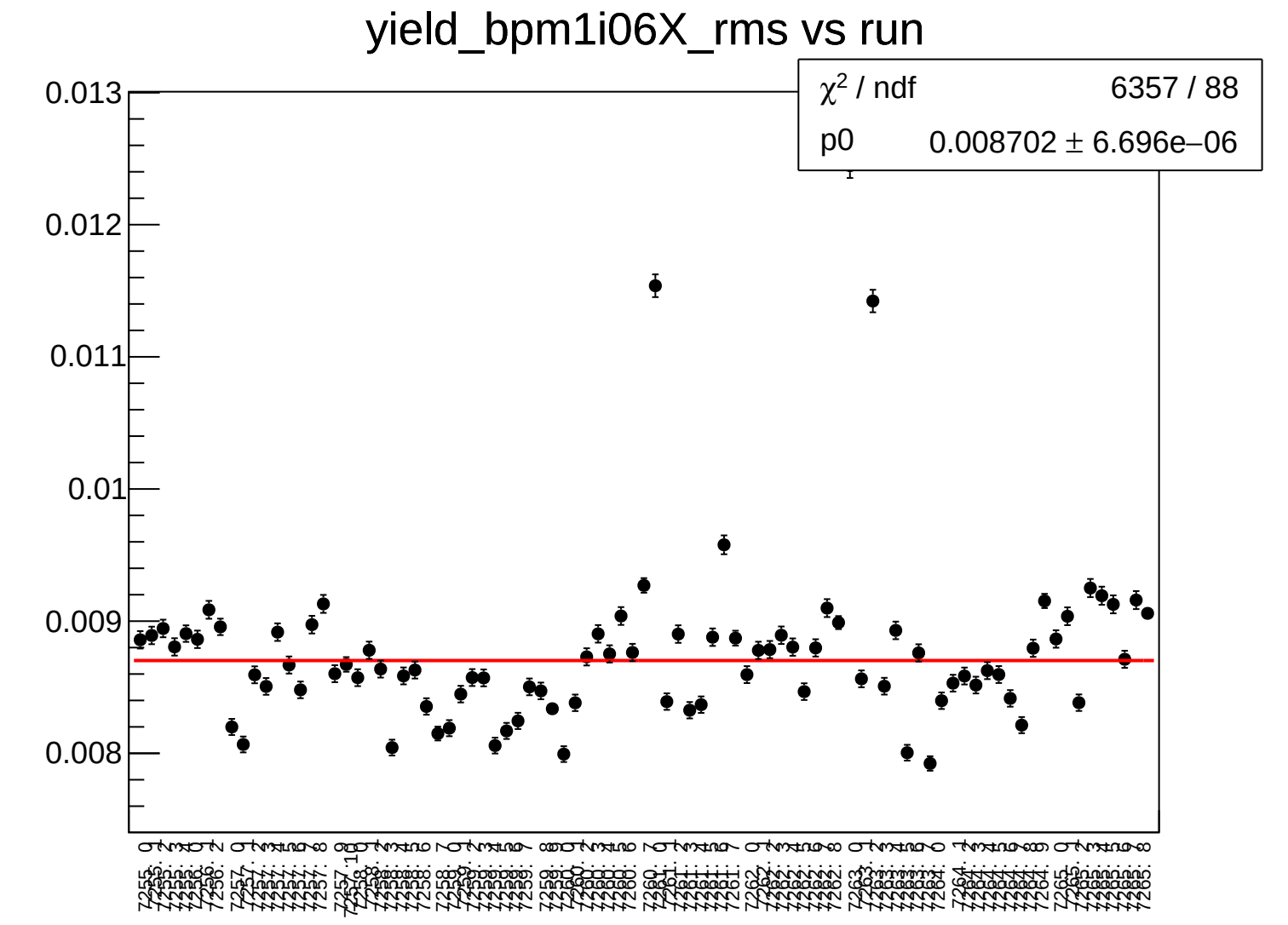

yield_bpm1i04Y_mean vs run
χ² / ndf 6.095e+07 / 88
p0 0.5832 ± 3.703e−06
pull
Entries 89
Mean −3.509e+04
Std Dev 0

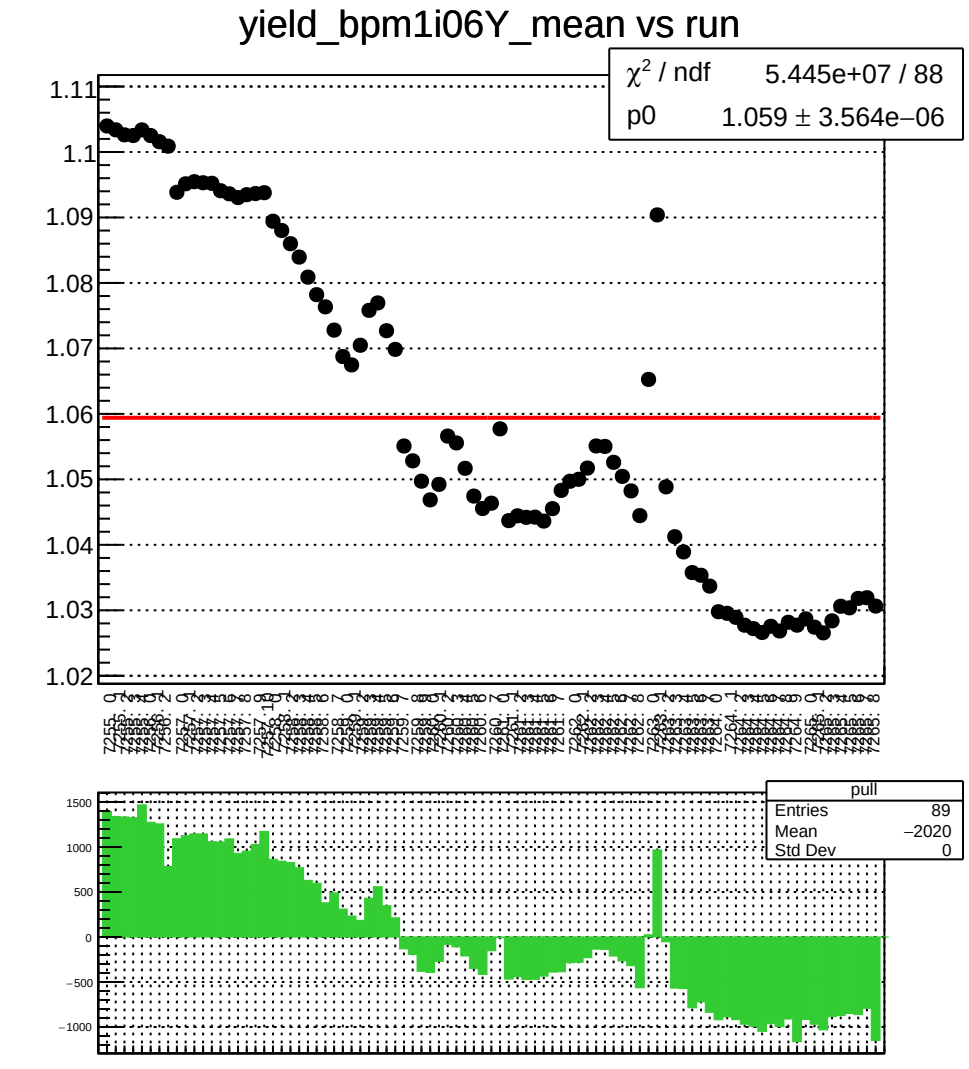

pull1D
Entries 89
Mean 0
Std Dev 0

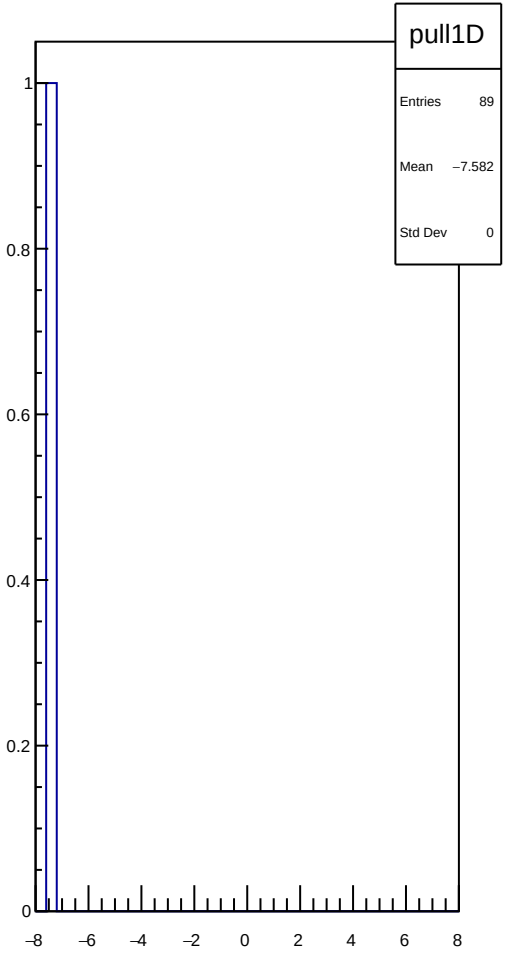

yield_bpm1i04Y_rms vs run
χ² / ndf 7232 / 88
p0 0.003402 ± 2.619e−06
0.005
0.0045
0.004
0.0035
0.003

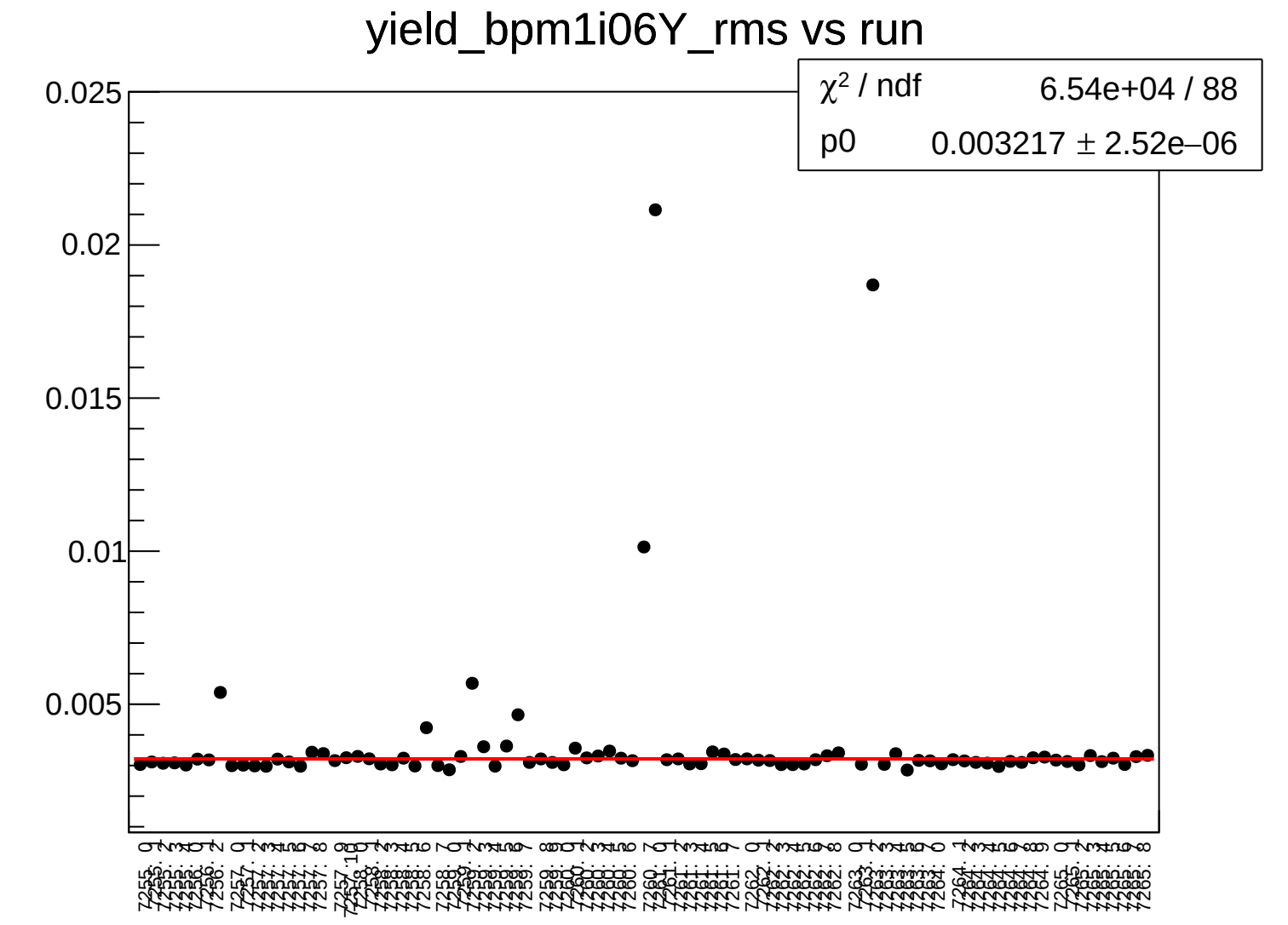

yield_bpm1i06X_mean vs run
χ² / ndf 5.486e+06 / 88
p0 1.855 ± 9.47e−06
1.9
1.89
1.88
1.87
1.86
1.85
1.84
1.83
pull
Entries 89
Mean −2035
Std Dev 0
400
300
200
100
0
−100
−200
−300

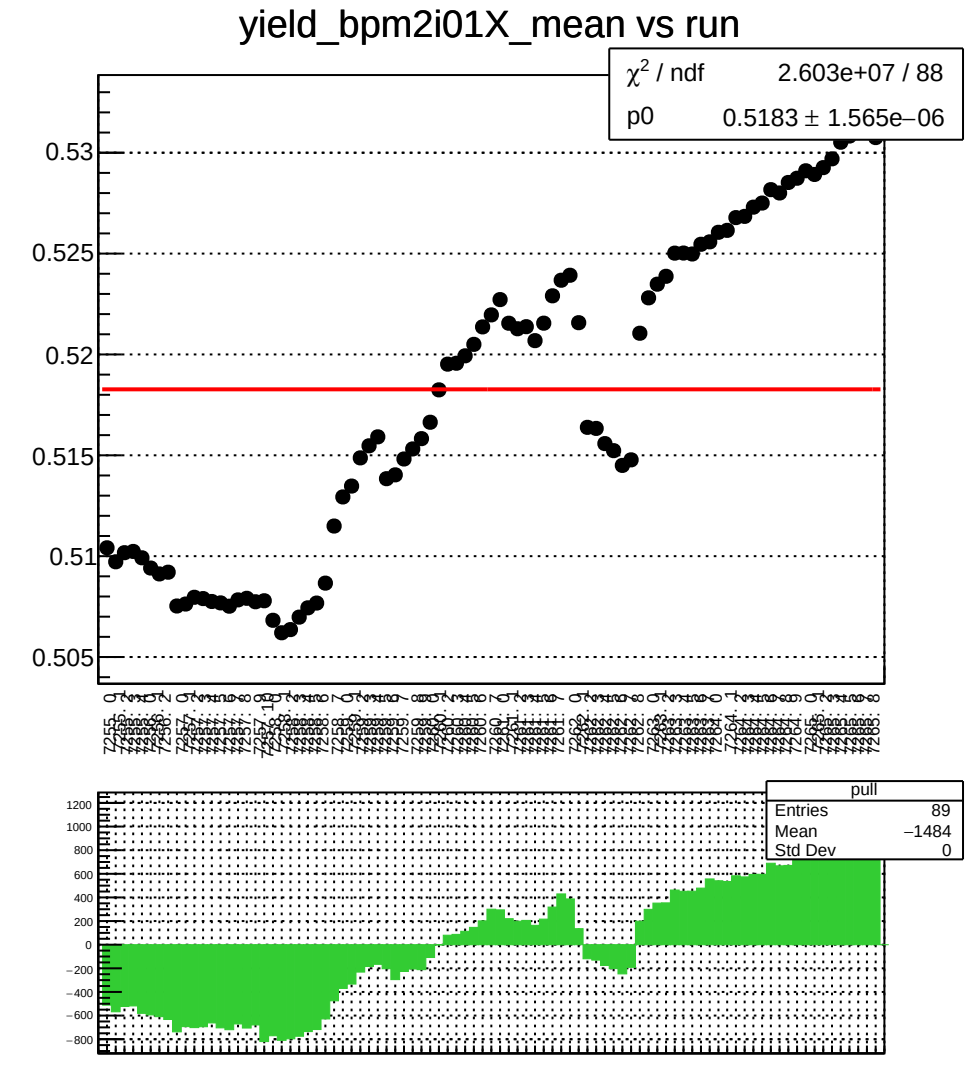

pull1D
Entries 89
Mean 5.152
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

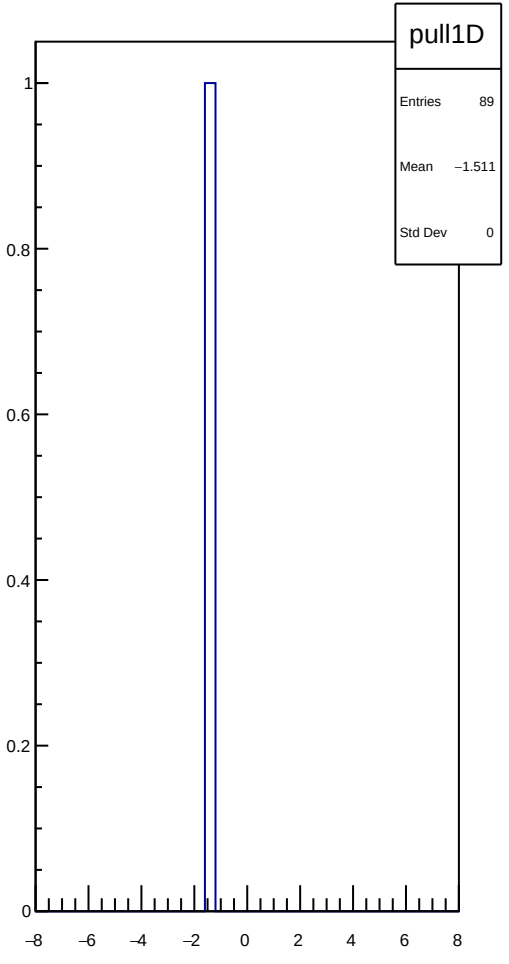

yield_bpm1i06X_rms vs run
χ² / ndf 6357 / 88
p0 0.008702 ± 6.696e−06
0.013
0.012
0.011
0.01
0.009
0.008

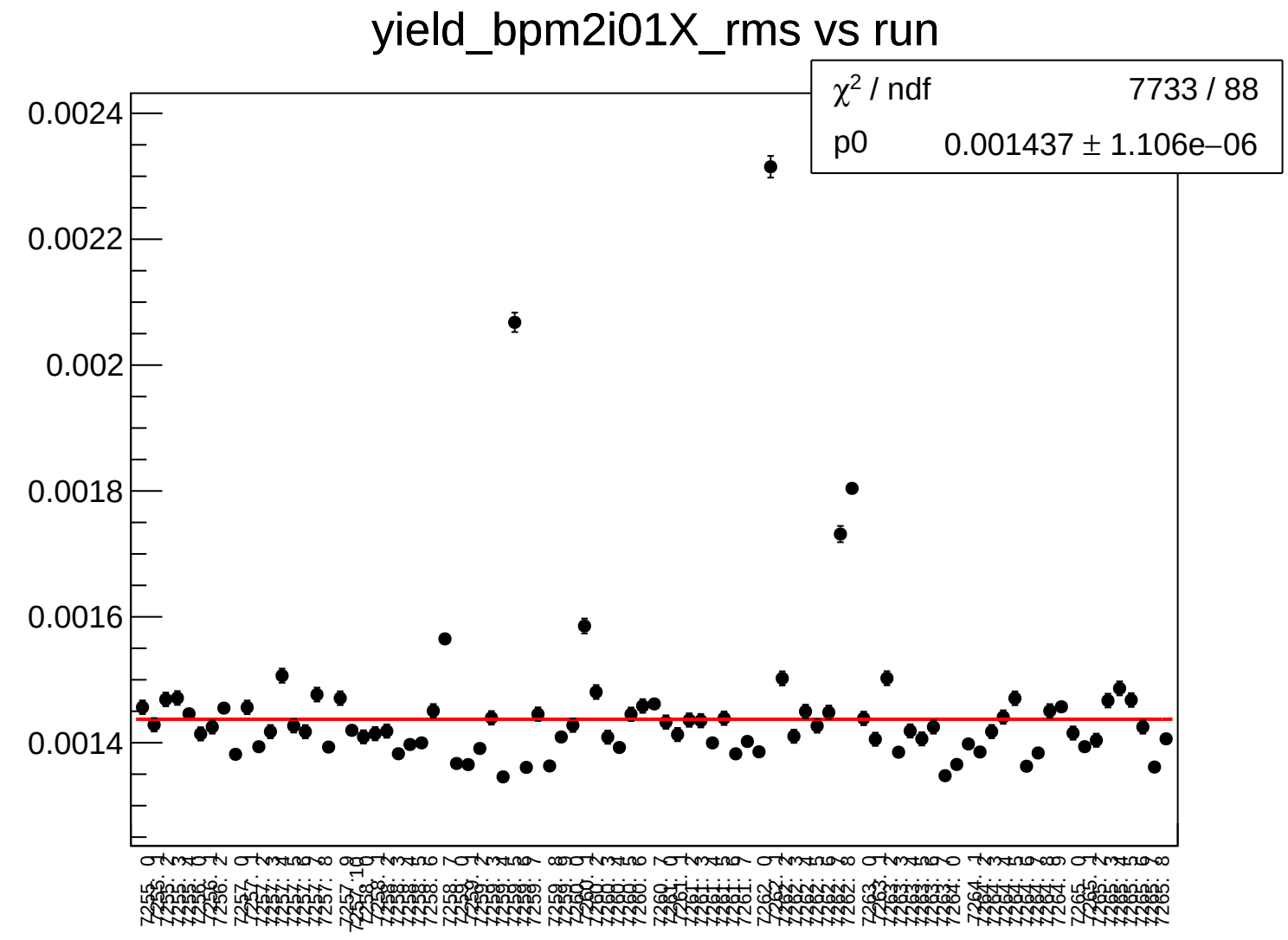

yield_bpm1i06Y_mean vs run
χ² / ndf 5.445e+07 / 88
p0 1.059 ± 3.564e−06
1.11
1.1
1.09
1.08
1.07
1.06
1.05
1.04
1.03
1.02
pull
Entries 89
Mean −2020
Std Dev 0
1500
1000
500
0
−500
−1000

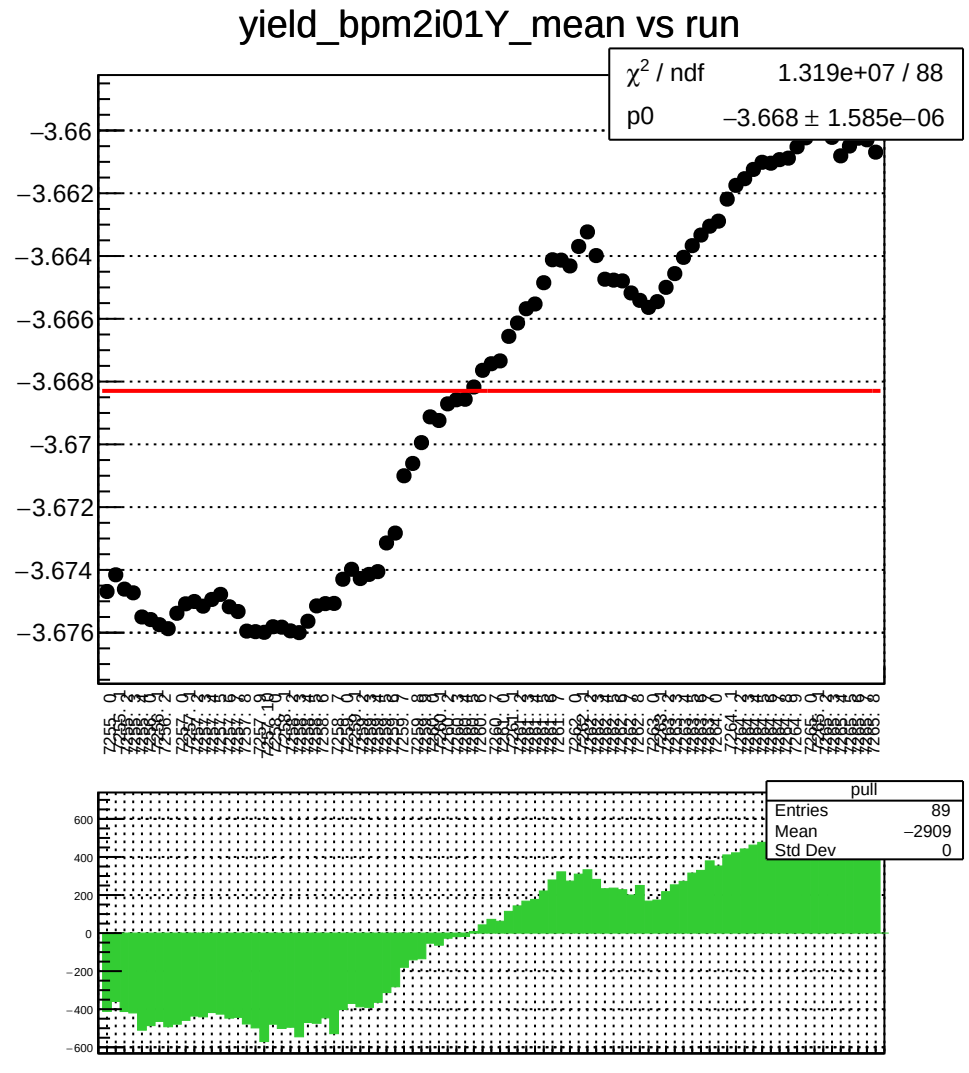

pull1D
Entries 89
Mean −7.582
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

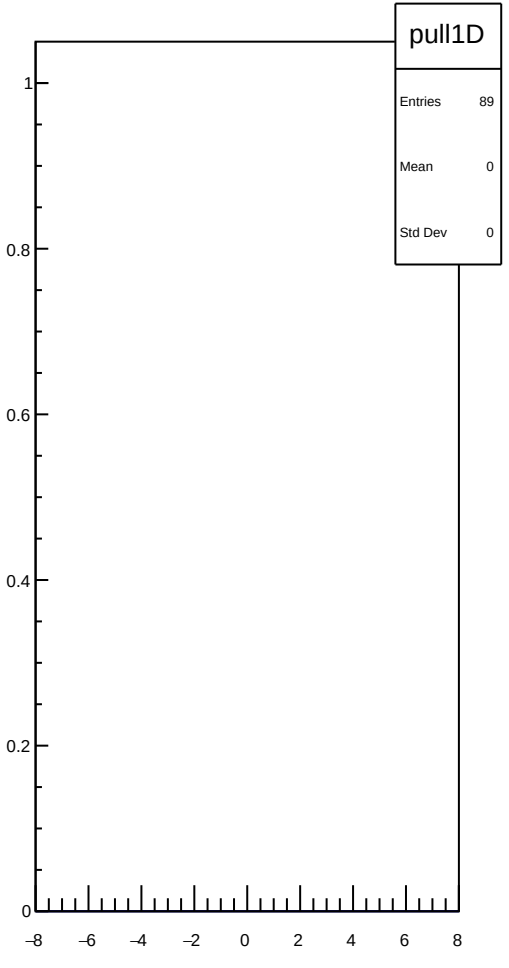

yield_bpm1i06Y_rms vs run
χ² / ndf 6.54e+04 / 88
p0 0.003217 ± 2.52e–06
0.025
0.02
0.015
0.01
0.005

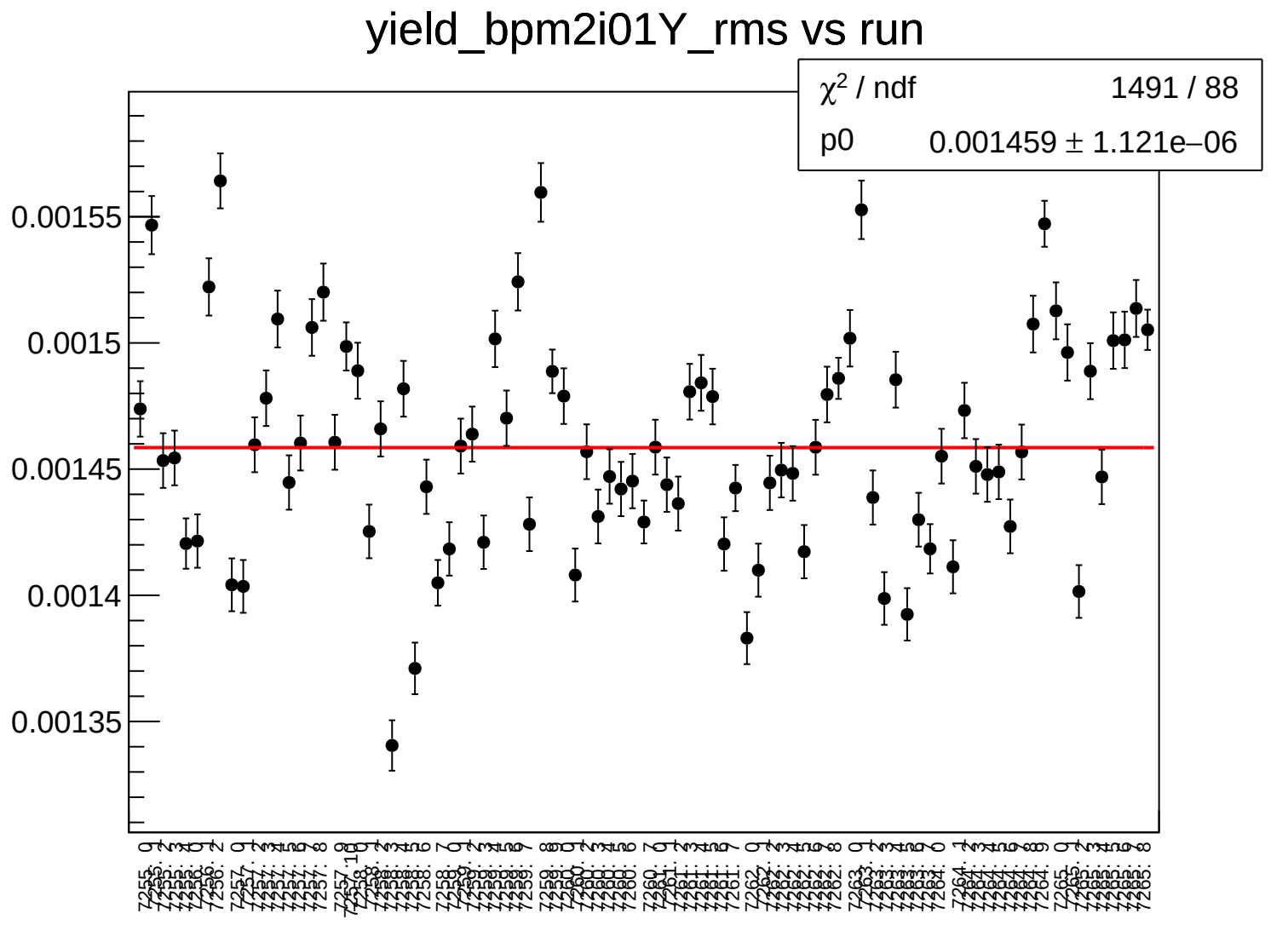

yield_bpm2i01X_mean vs run
χ² / ndf 2.603e+07 / 88
p0 0.5183 ± 1.565e−06
0.53
0.525
0.52
0.515
0.51
0.505
pull
Entries 89
Mean −1484
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

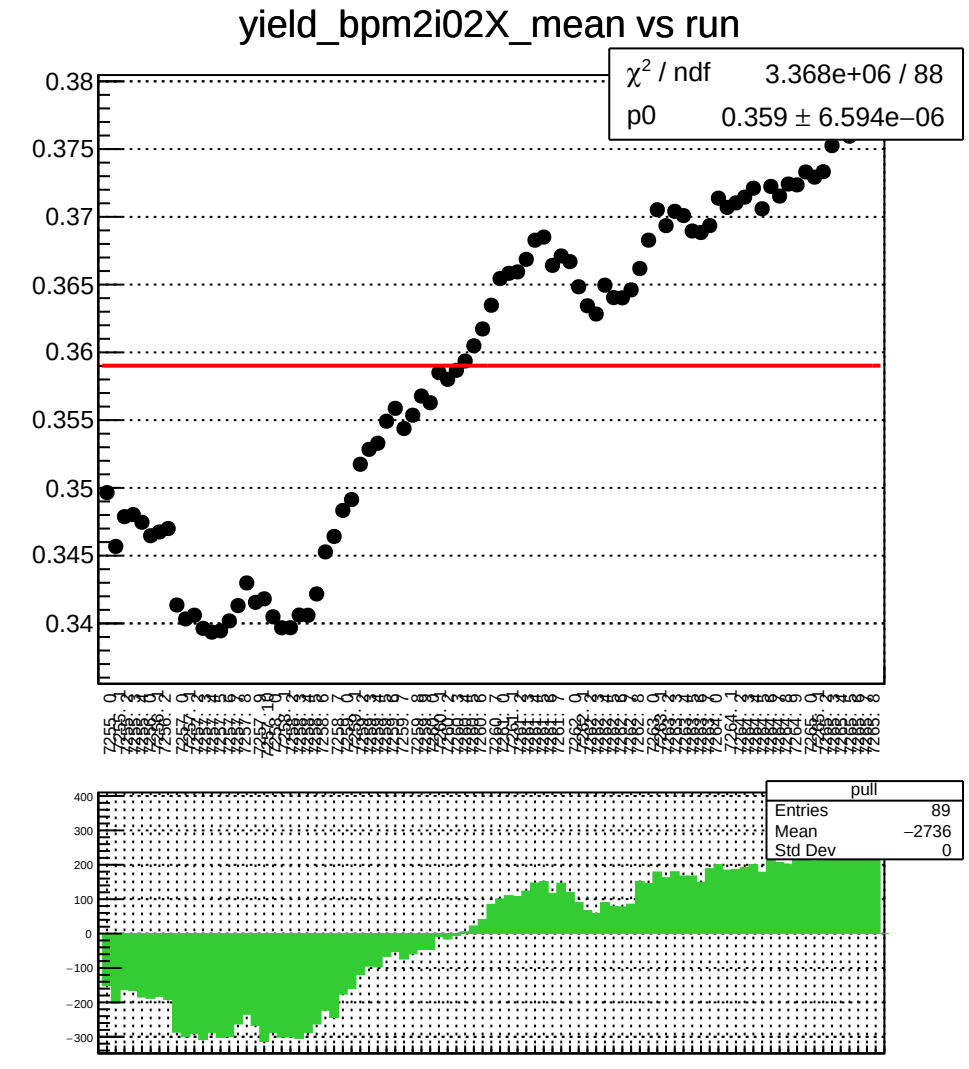

pull1D
Entries 89
Mean −1.511
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

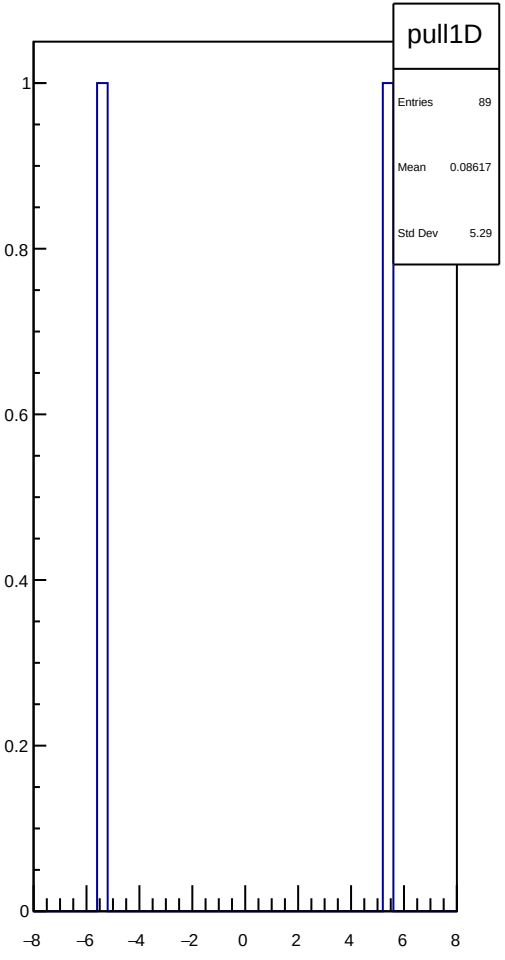

yield_bpm2i01X_rms vs run
χ² / ndf 7733 / 88
p0 0.001437 ± 1.106e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

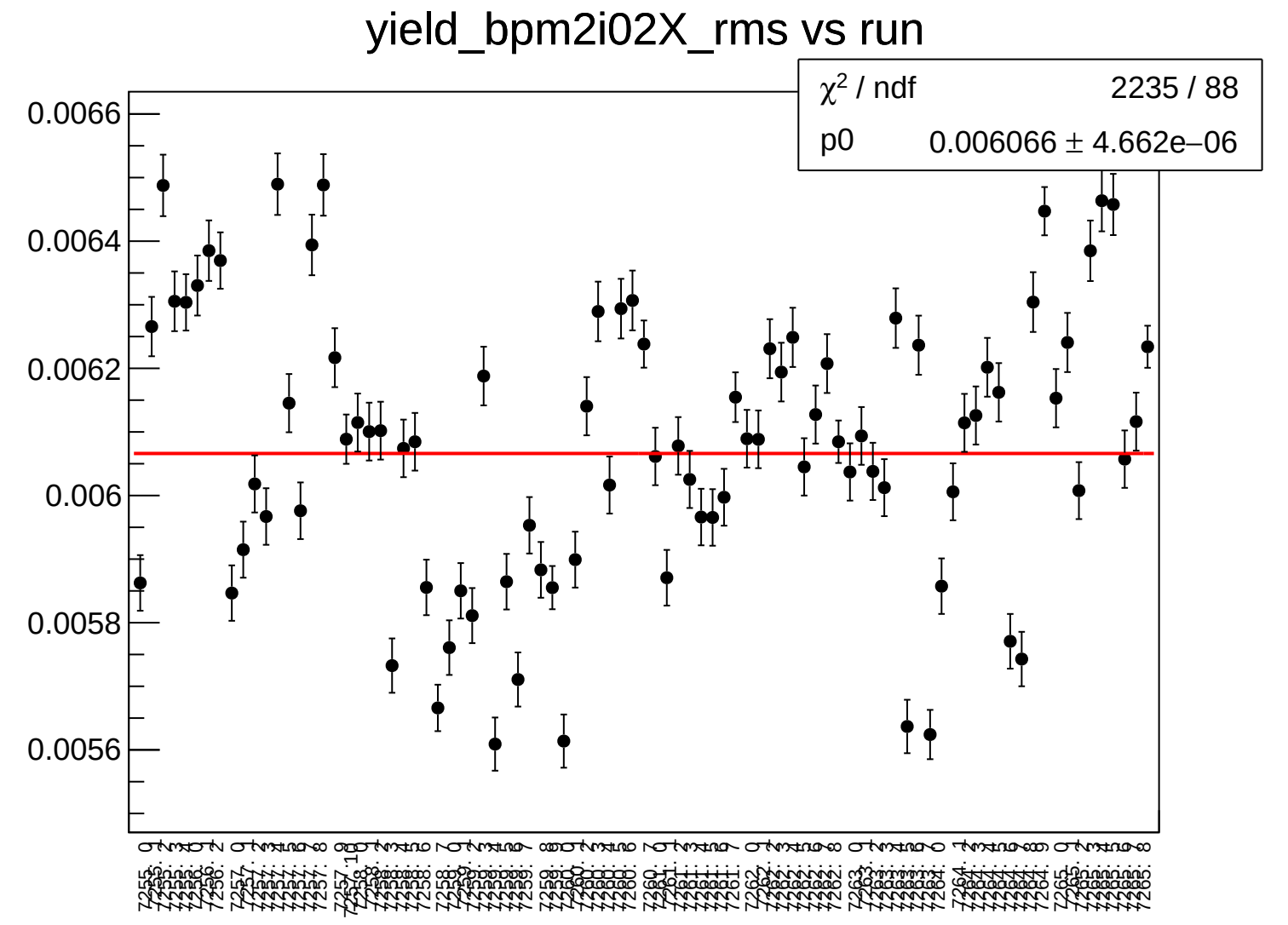

yield_bpm2i01Y_mean vs run
χ² / ndf 1.319e+07 / 88
p0 −3.668 ± 1.585e−06
−3.66
−3.662
−3.664
−3.666
−3.668
−3.67
−3.672
−3.674
−3.676
pull
Entries 89
Mean −2909
Std Dev 0
600
400
200
0
−200
−400
−600

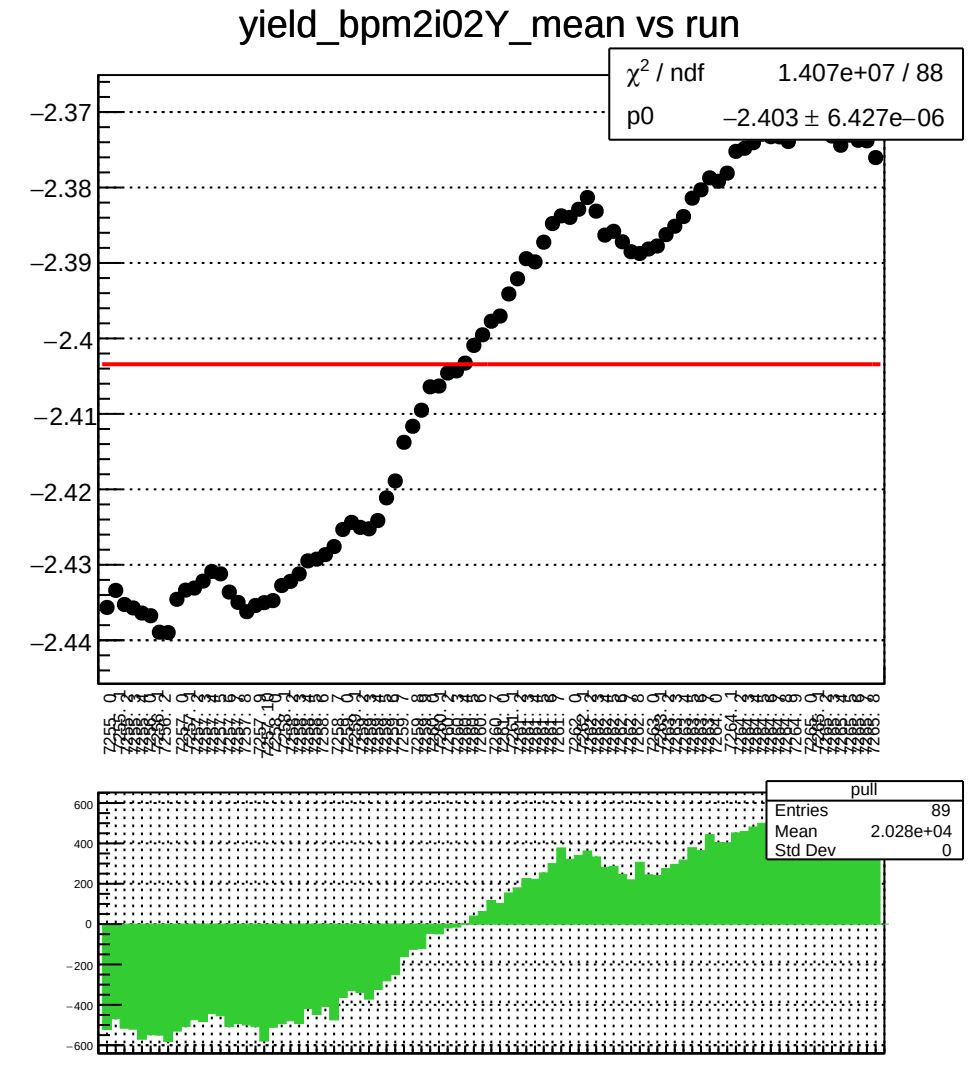

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

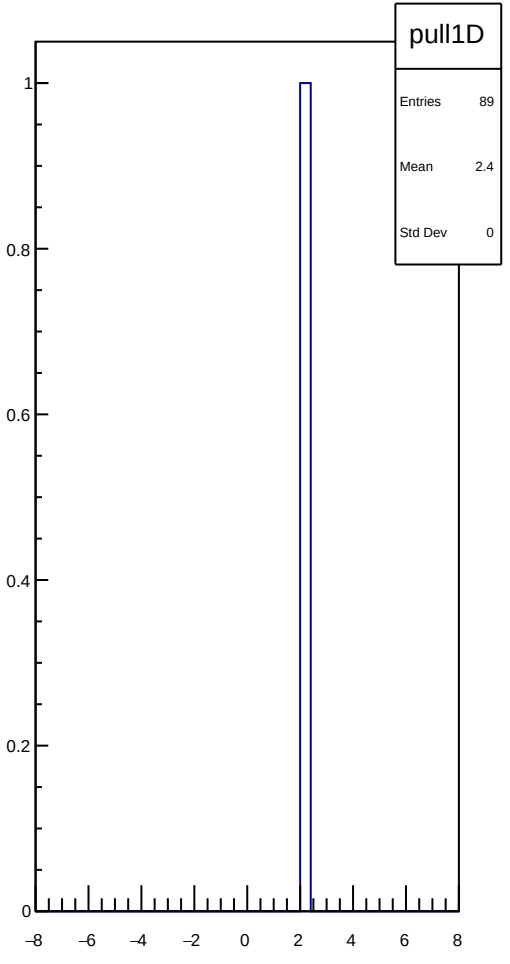

yield_bpm2i01Y_rms vs run
χ² / ndf 1491 / 88
p0 0.001459 ± 1.121e−06
0.00155
0.0015
0.00145
0.0014
0.00135

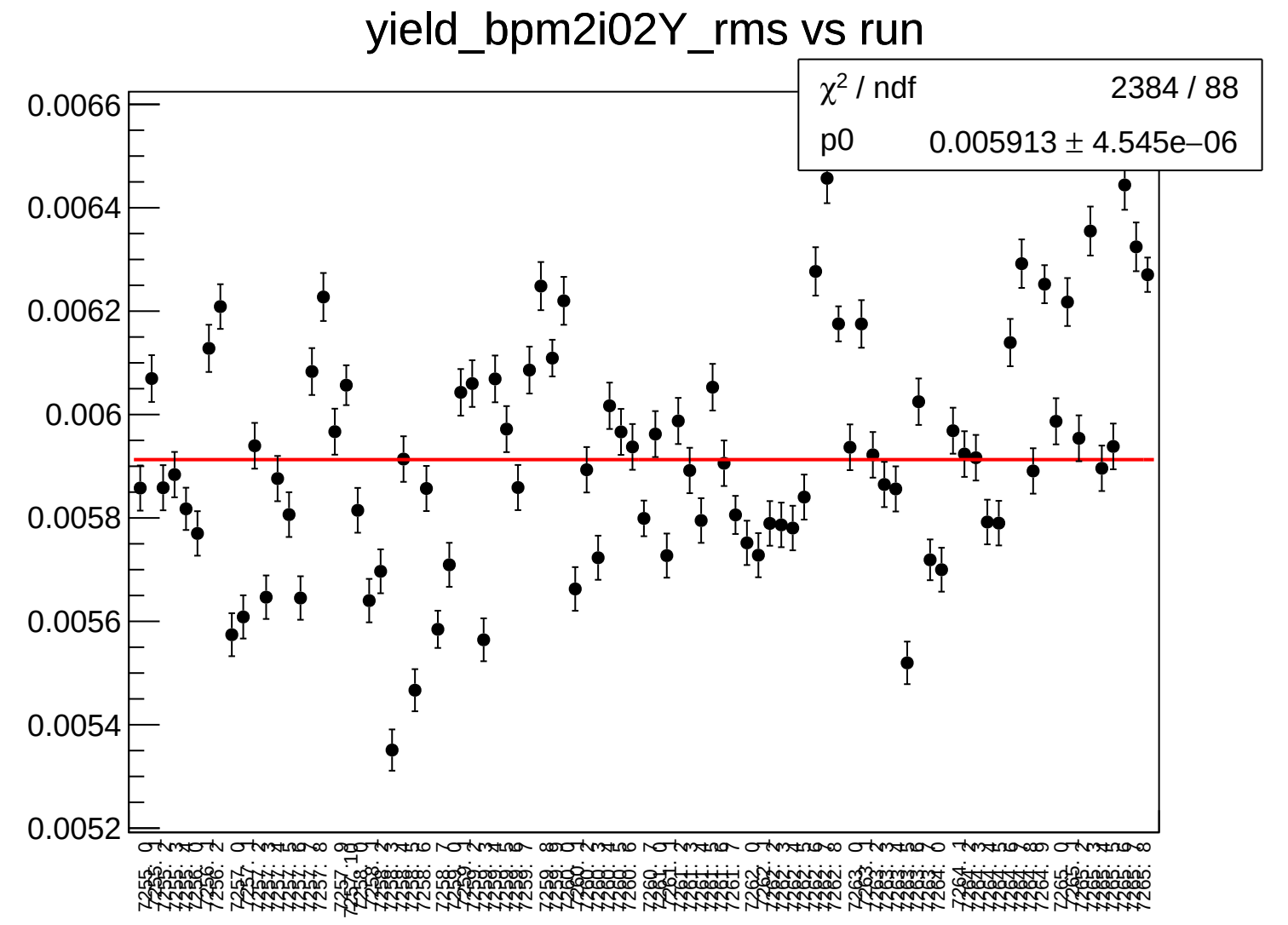

yield_bpm2i02X_mean vs run
χ² / ndf 3.368e+06 / 88
p0 0.359 ± 6.594e−06
pull
Entries 89
Mean −2736
Std Dev 0

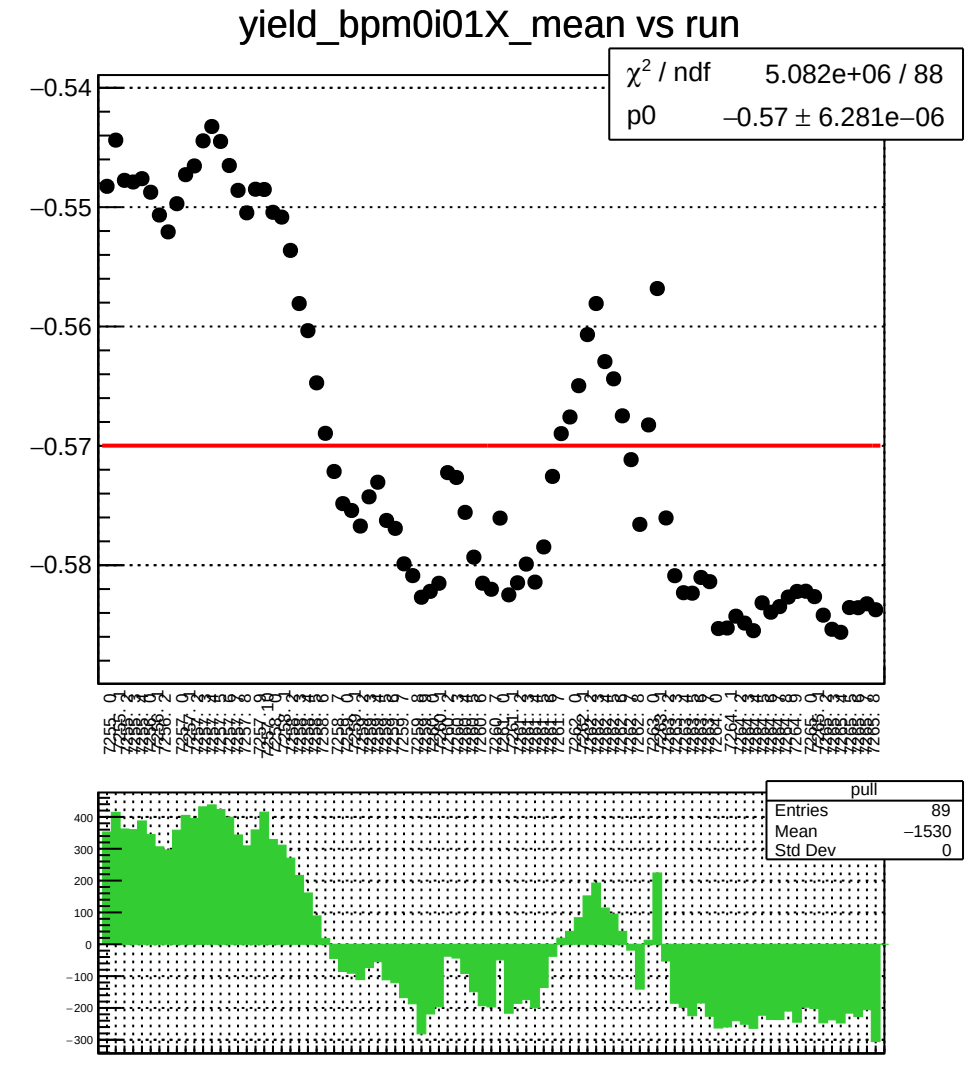

pull1D
Entries 89
Mean 0.08617
Std Dev 5.29

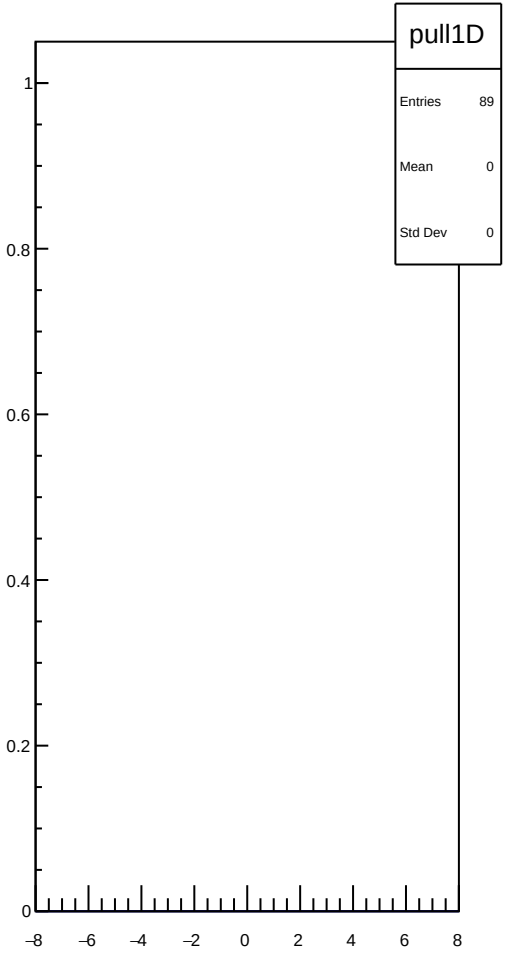

yield_bpm2i02X_rms vs run
χ² / ndf 2235 / 88
p0 0.006066 ± 4.662e−06
0.0066
0.0064
0.0062
0.006
0.0058
0.0056

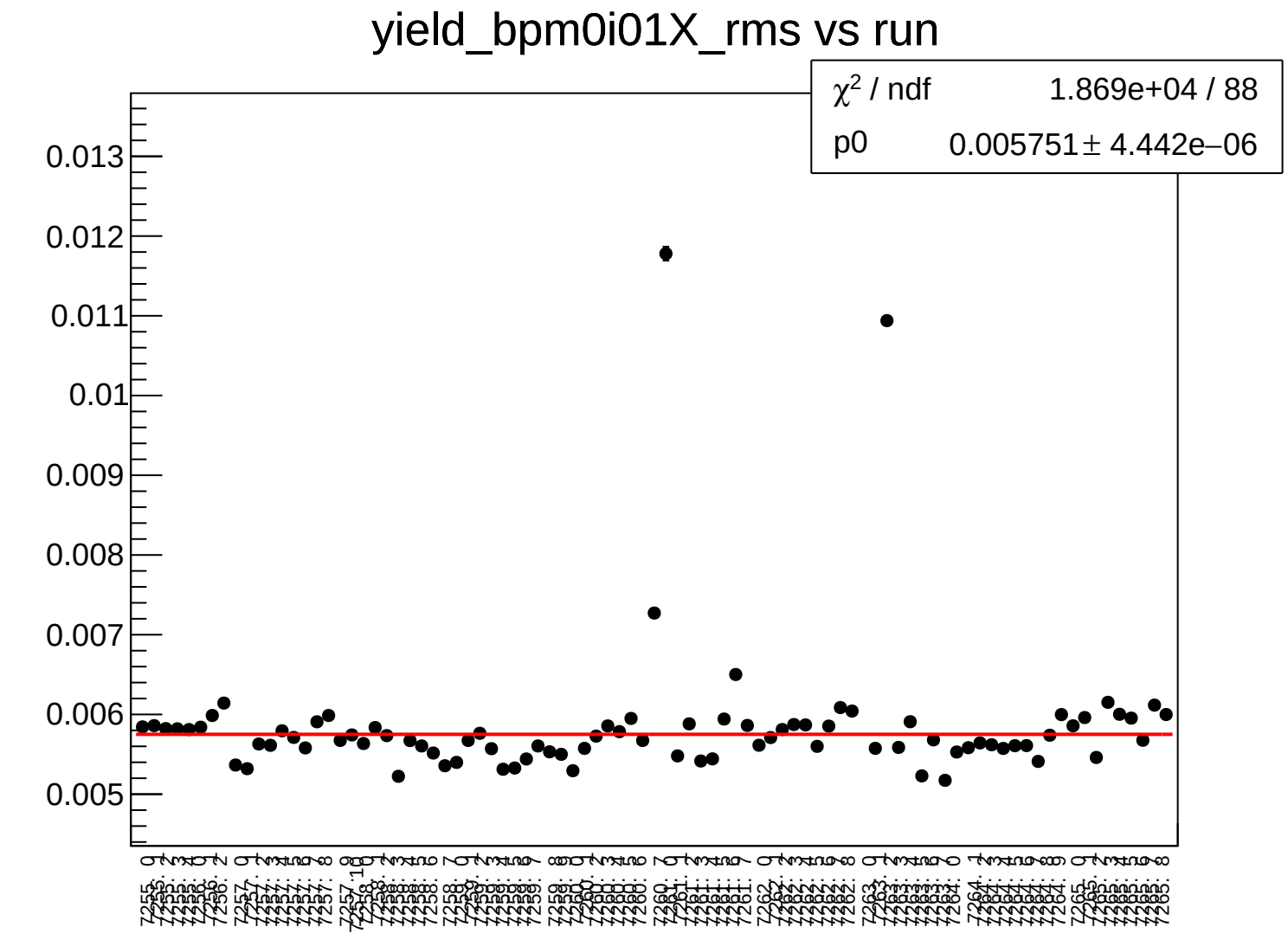

yield_bpm2i02Y_mean vs run
χ² / ndf 1.407e+07 / 88
p0 −2.403 ± 6.427e−06
−2.37
−2.38
−2.39
−2.4
−2.41
−2.42
−2.43
−2.44
pull
Entries 89
Mean 2.028e+04
Std Dev 0
600
400
200
0
−200
−400
−600

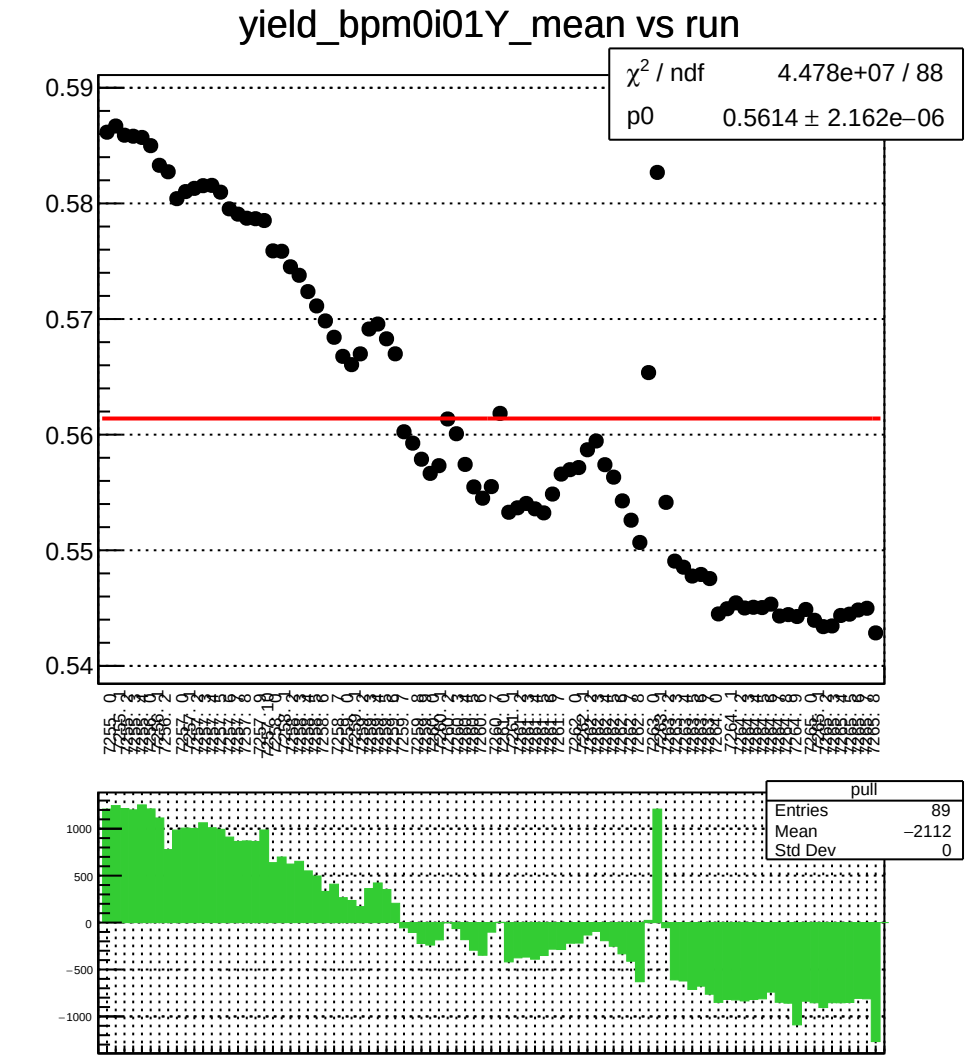

pull1D
Entries 89
Mean 2.4
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

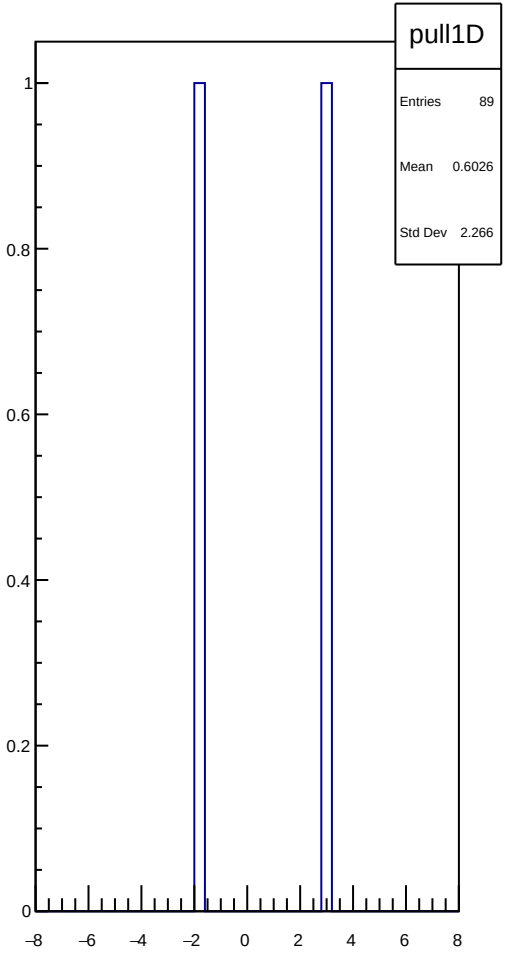

yield_bpm2i02Y_rms vs run
χ² / ndf 2384 / 88
p0 0.005913 ± 4.545e−06
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052

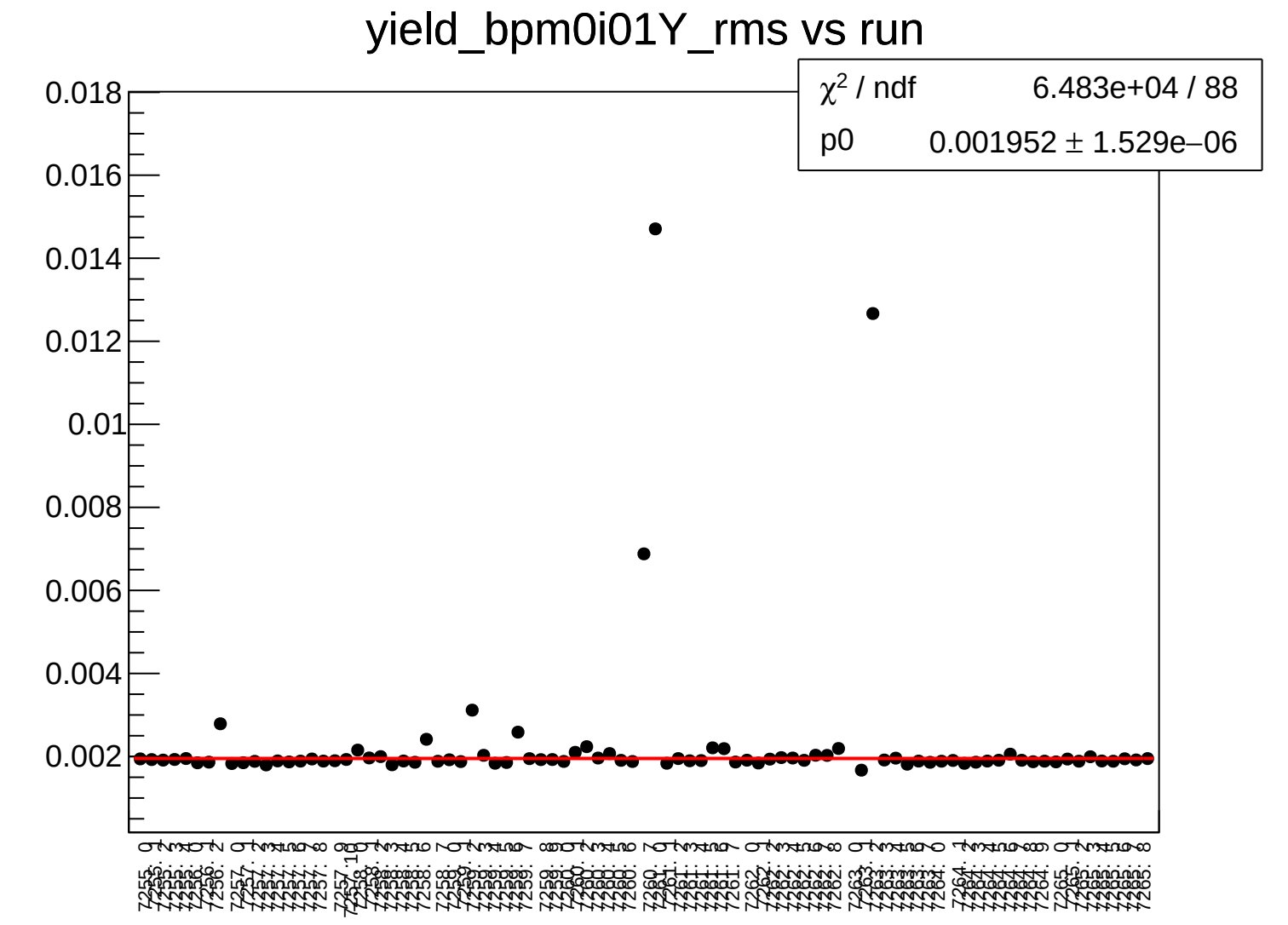

yield_bpm0i01X_mean vs run
χ² / ndf 5.082e+06 / 88
p0 −0.57 ± 6.281e−06
−0.54
−0.55
−0.56
−0.57
−0.58
pull
Entries 89
Mean −1530
Std Dev 0
400
300
200
100
0
−100
−200
−300

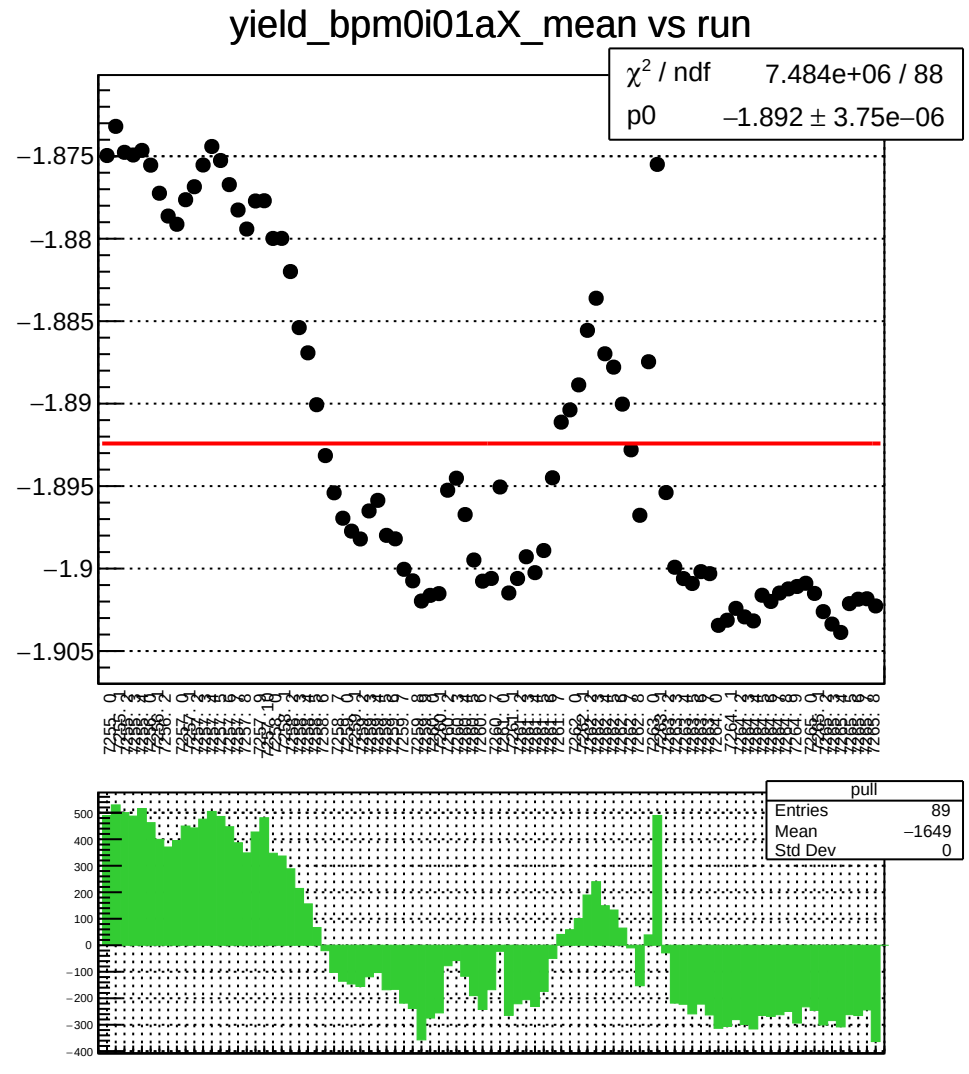

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

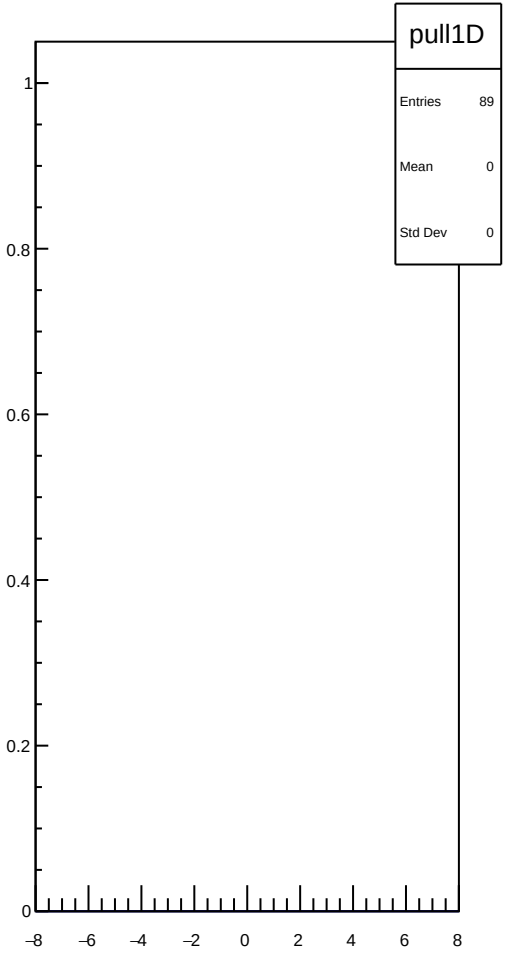

yield_bpm0i01X_rms vs run
χ² / ndf 1.869e+04 / 88
p0 0.005751 ± 4.442e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

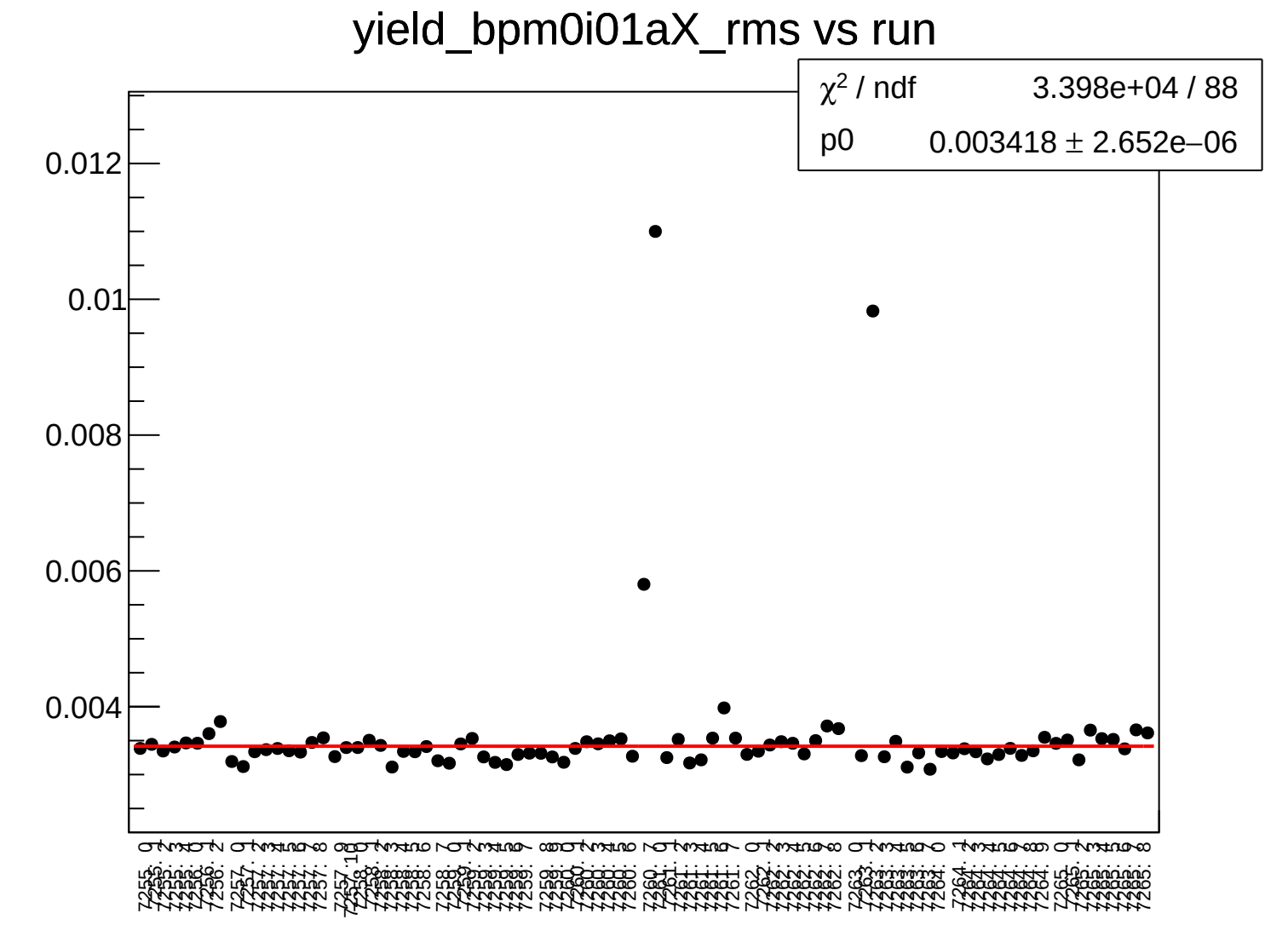

yield_bpm0i01Y_mean vs run
χ² / ndf 4.478e+07 / 88
p0 0.5614 ± 2.162e−06
0.59
0.58
0.57
0.56
0.55
0.54
pull
Entries 89
Mean −2112
Std Dev 0
1000
500
0
−500
−1000

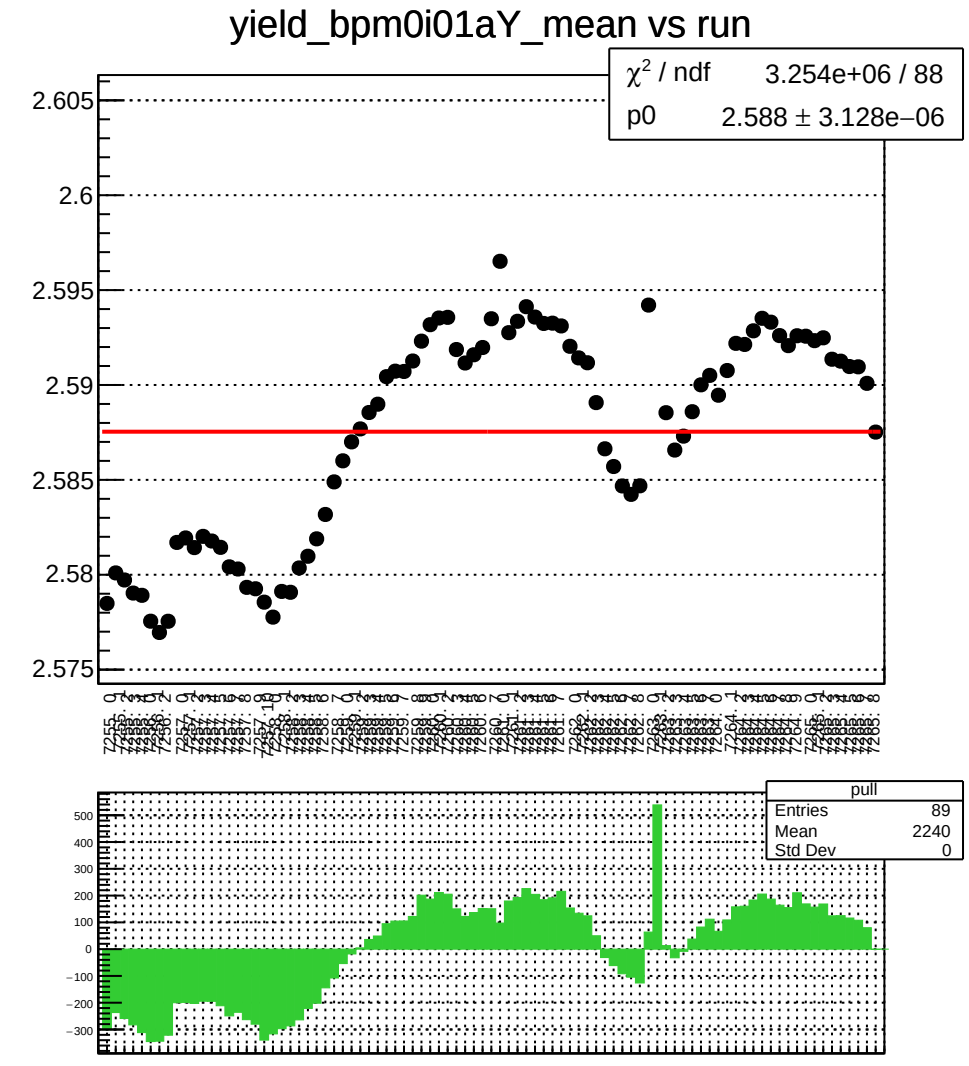

pull1D
Entries 89
Mean 0.6026
Std Dev 2.266
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

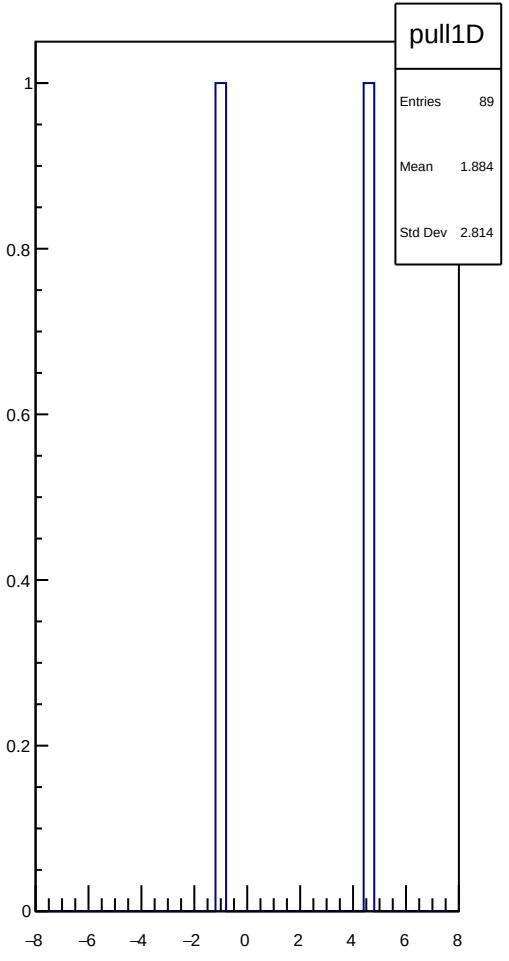

yield_bpm0i01Y_rms vs run
χ² / ndf 6.483e+04 / 88
p0 0.001952 ± 1.529e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

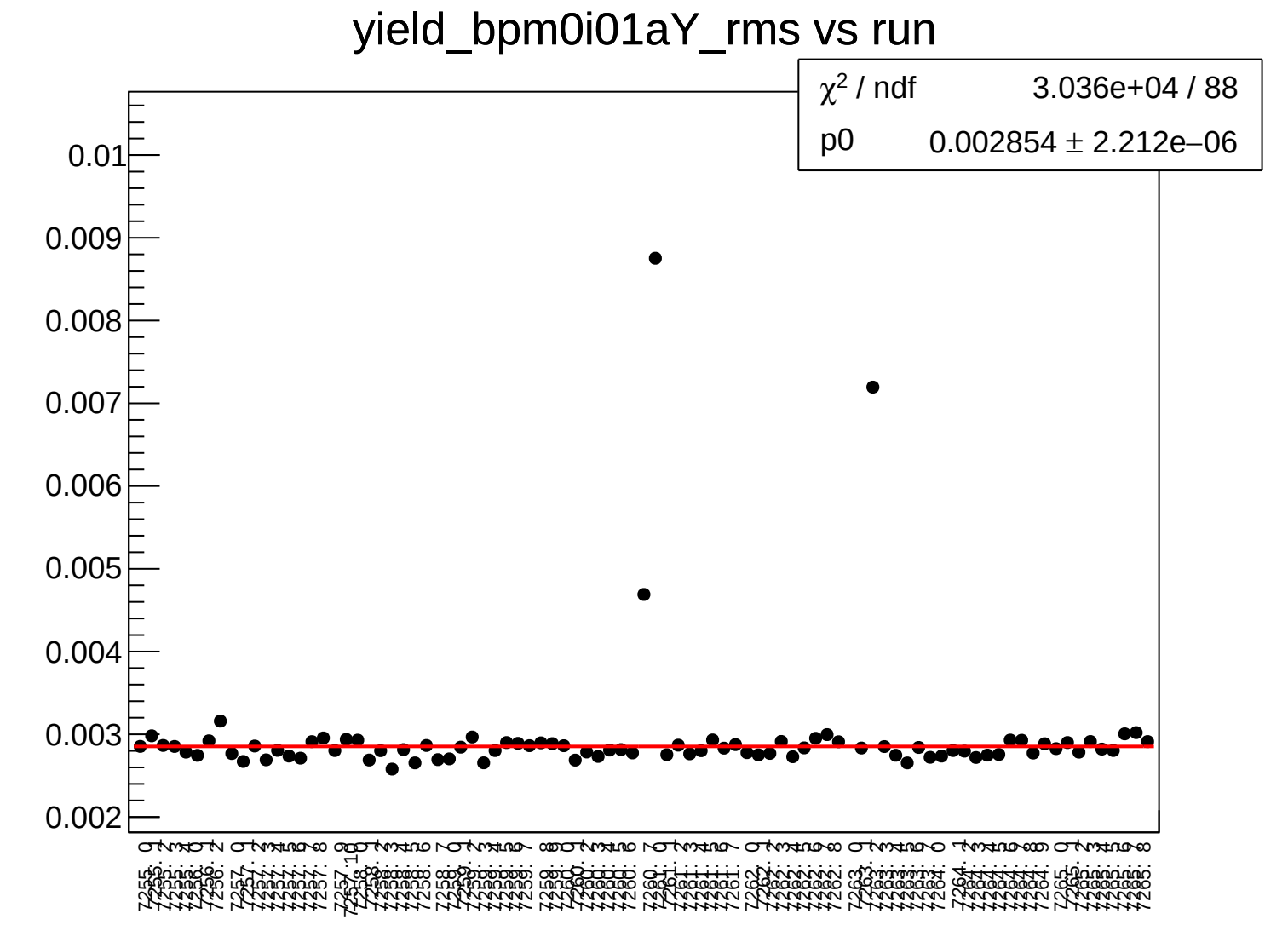

yield_bpm0i01aX_mean vs run
χ² / ndf 7.484e+06 / 88
p0 –1.892 ± 3.75e–06
–1.875
–1.88
–1.885
–1.89
–1.895
–1.9
–1.905
pull
Entries 89
Mean –1649
Std Dev 0
500
400
300
200
100
0
–100
–200
–300
–400

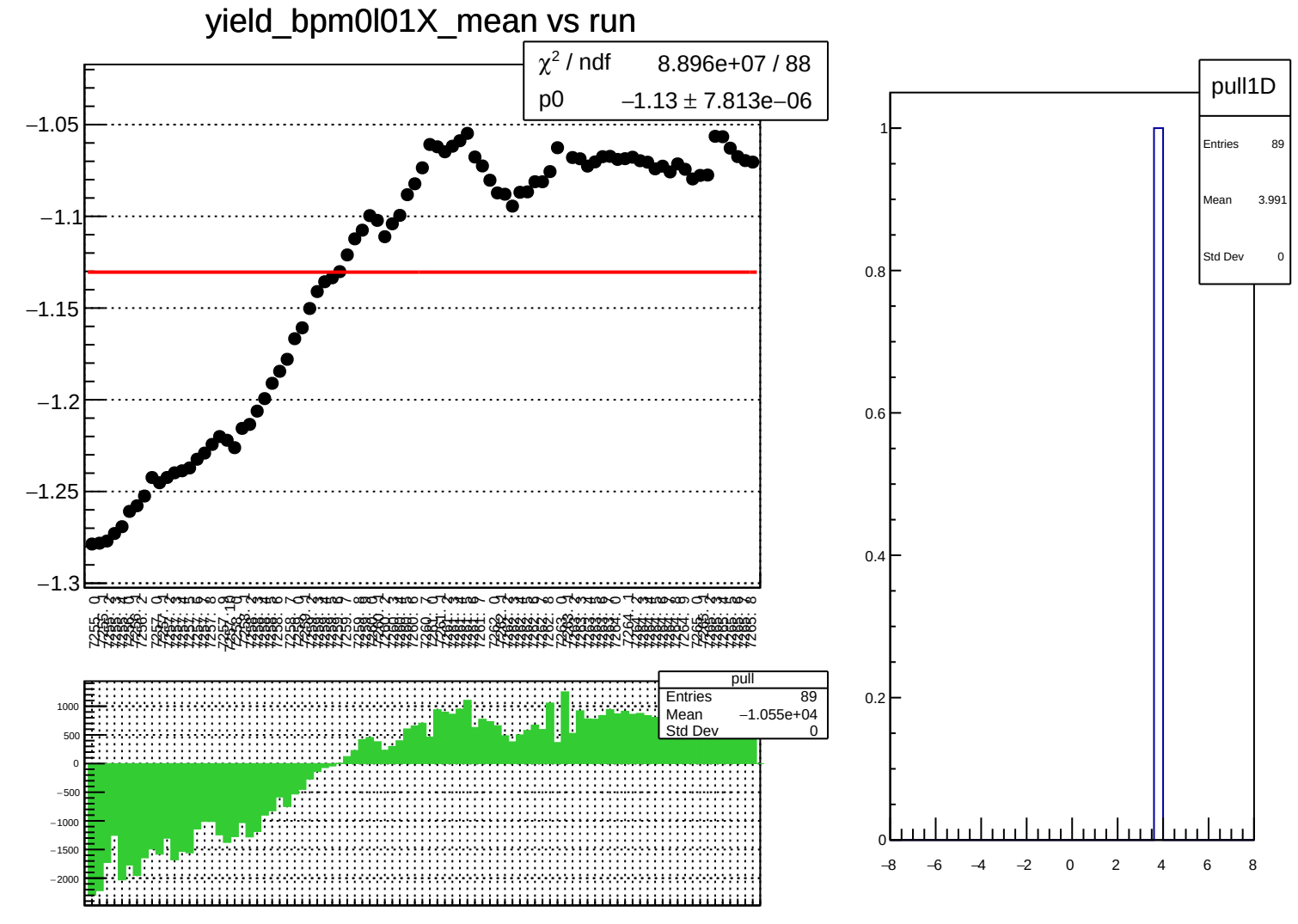

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

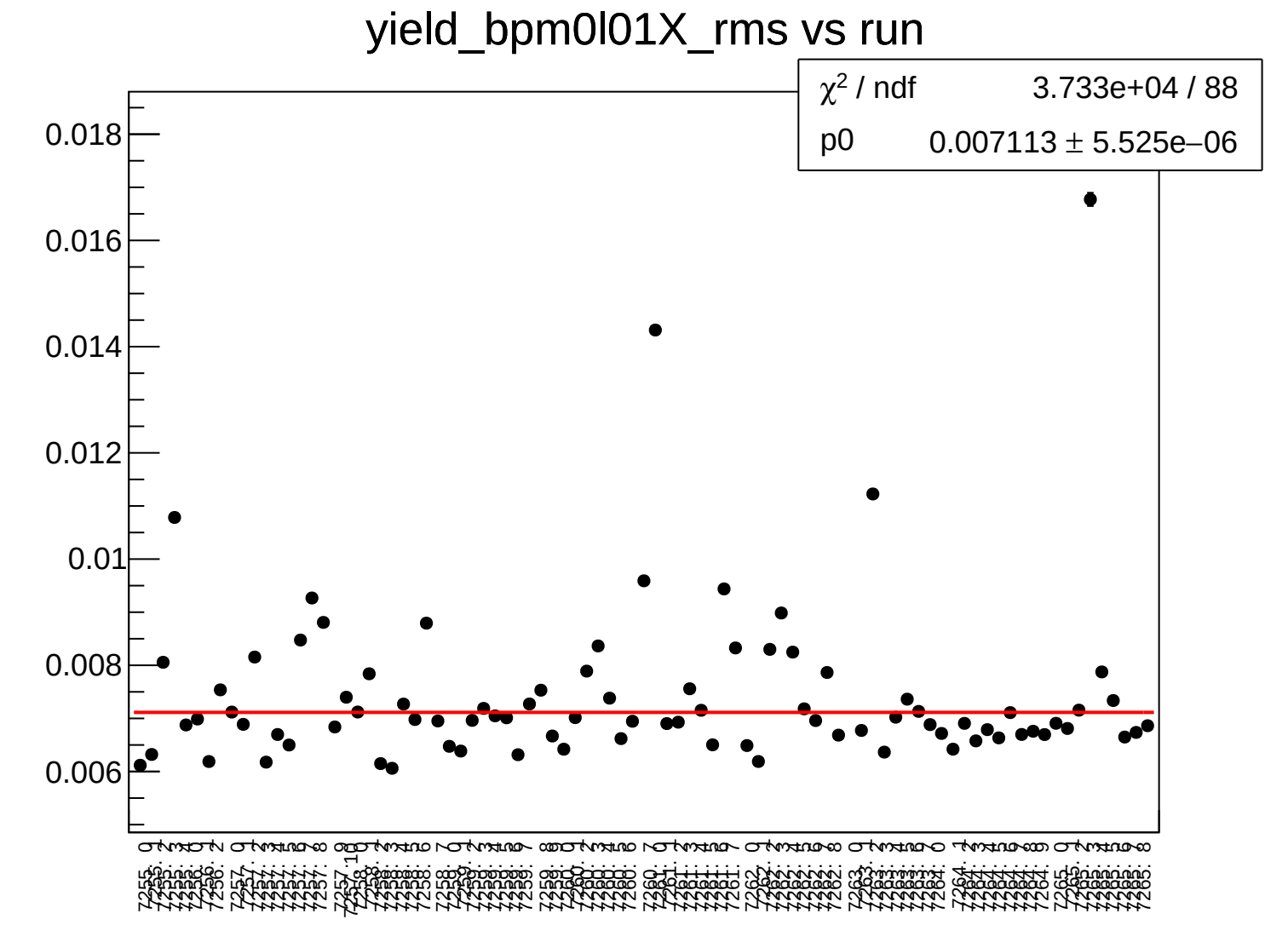

yield_bpm0i01aX_rms vs run
χ² / ndf 3.398e+04 / 88
p0 0.003418 ± 2.652e−06
0.012
0.01
0.008
0.006
0.004

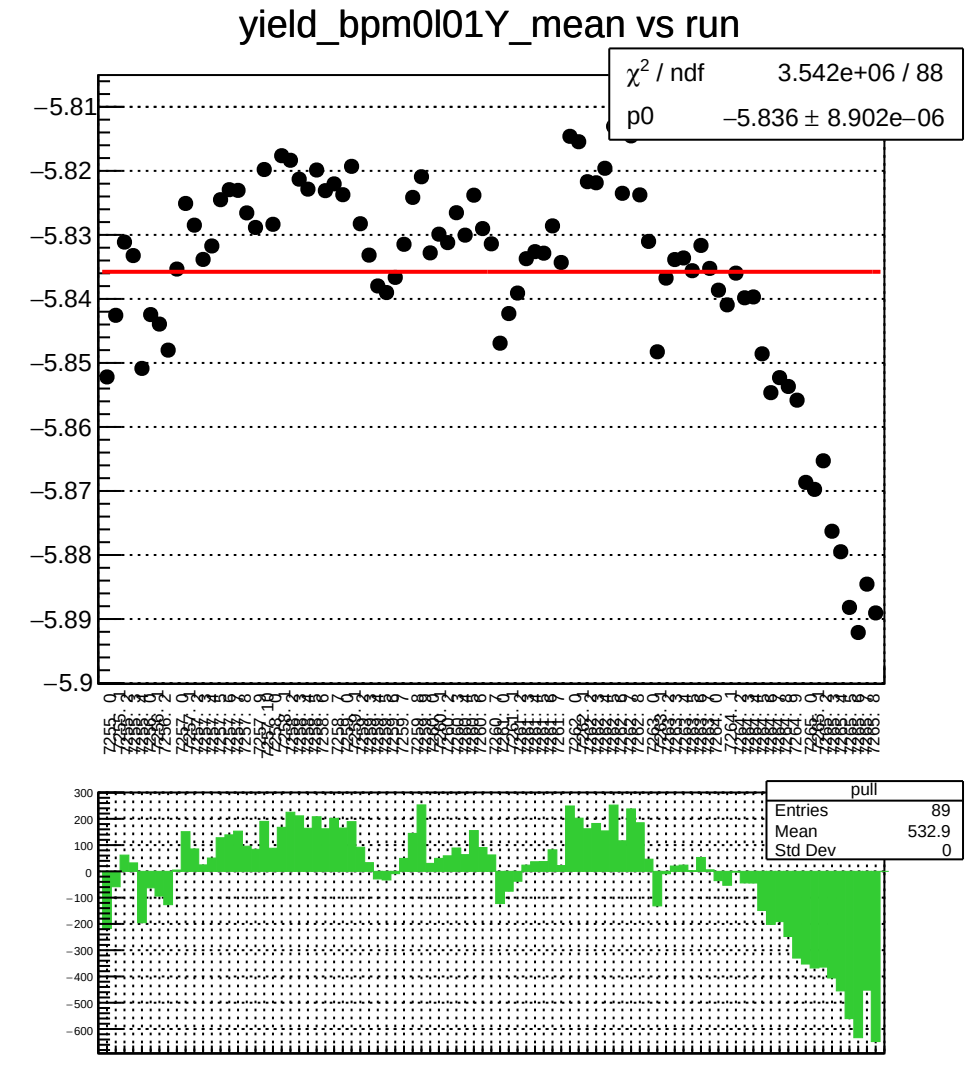

yield_bpm0i01aY_mean vs run
χ² / ndf 3.254e+06 / 88
p0 2.588 ± 3.128e−06
2.605
2.6
2.595
2.59
2.585
2.58
2.575
pull
Entries 89
Mean 2240
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

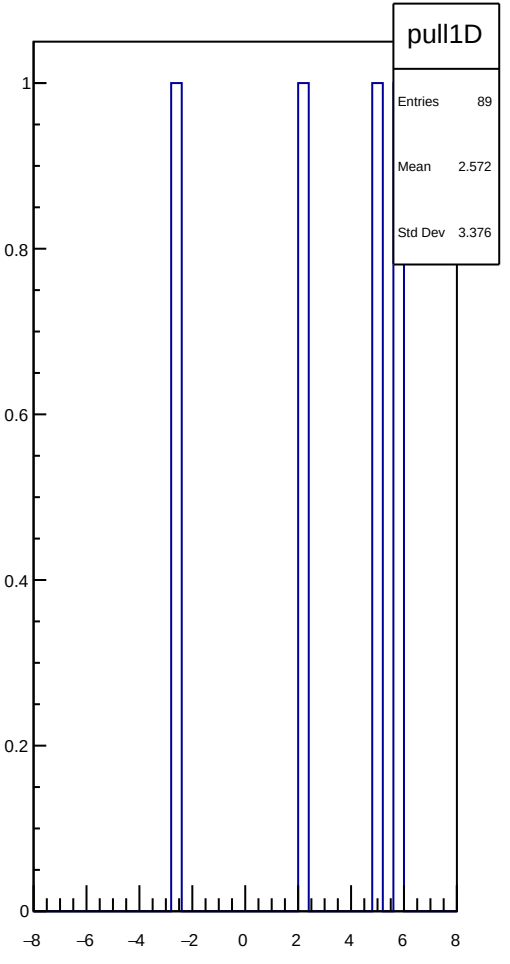

pull1D
Entries 89
Mean 1.884
Std Dev 2.814
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

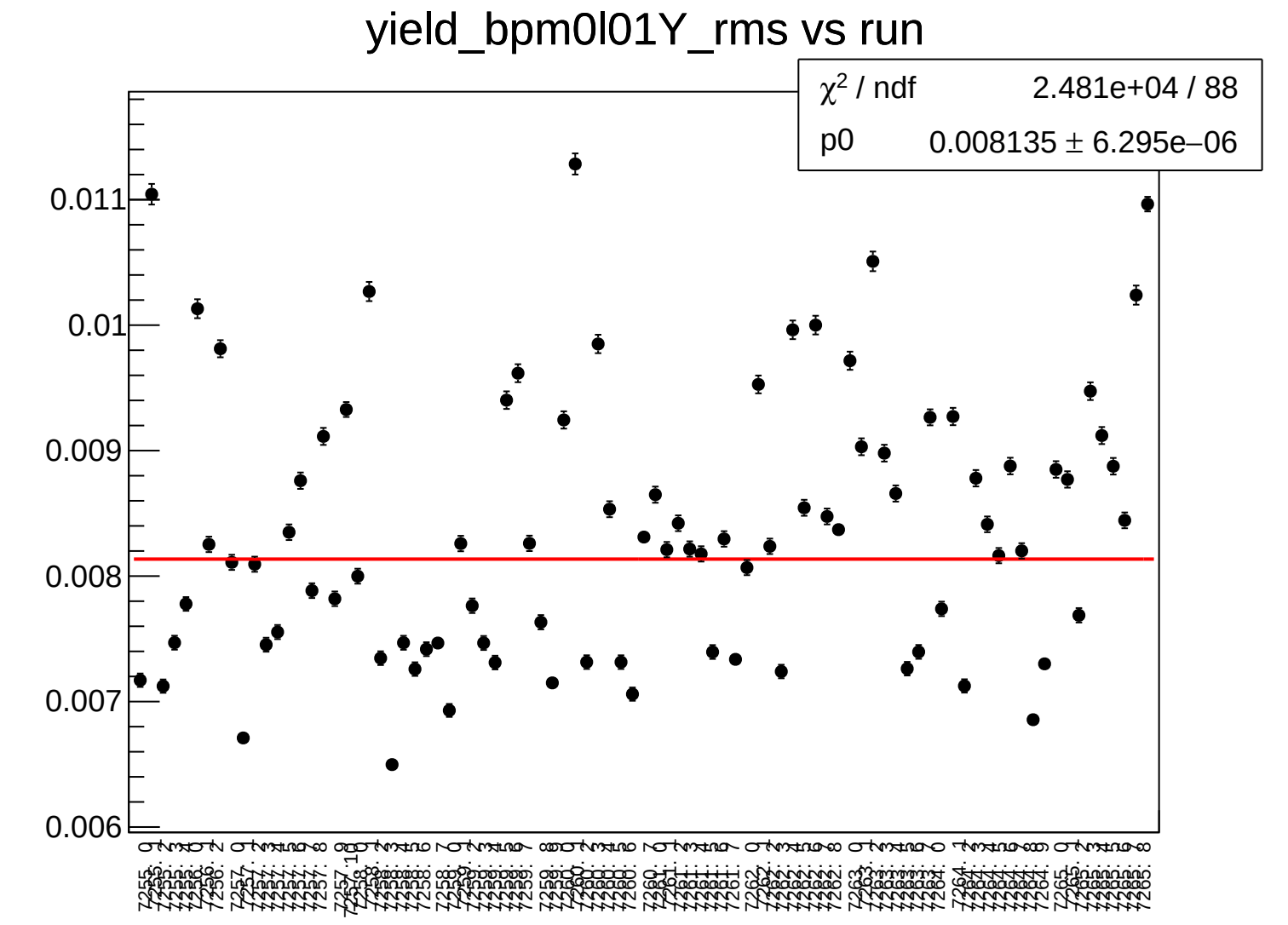

yield_bpm0i01aY_rms vs run
χ² / ndf 3.036e+04 / 88
p0 0.002854 ± 2.212e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

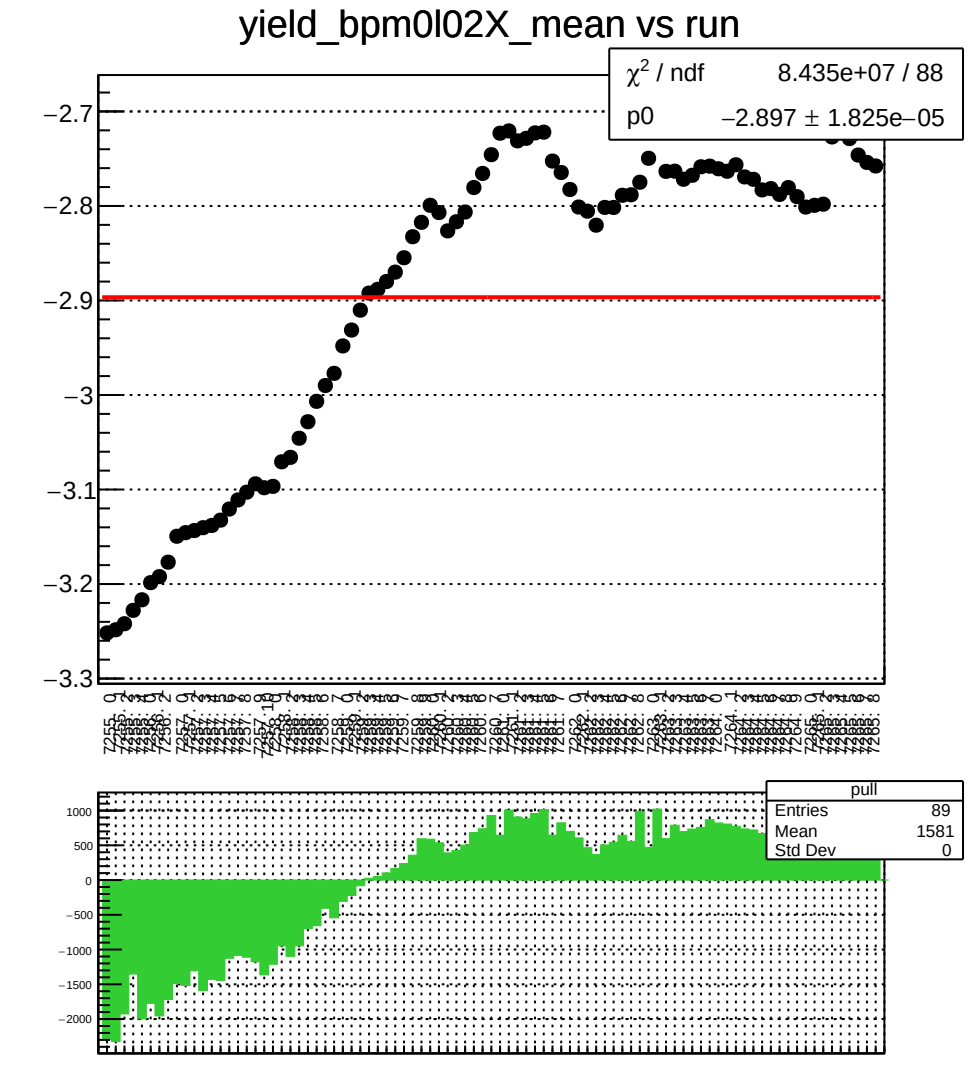

yield_bpm0l01X_mean vs run
χ² / ndf 8.896e+07 / 88
p0 −1.13 ± 7.813e−06
−1.05
−1.1
−1.15
−1.2
−1.25
−1.3
pull
Entries 89
Mean −1.055e+04
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 89
Mean 3.991
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

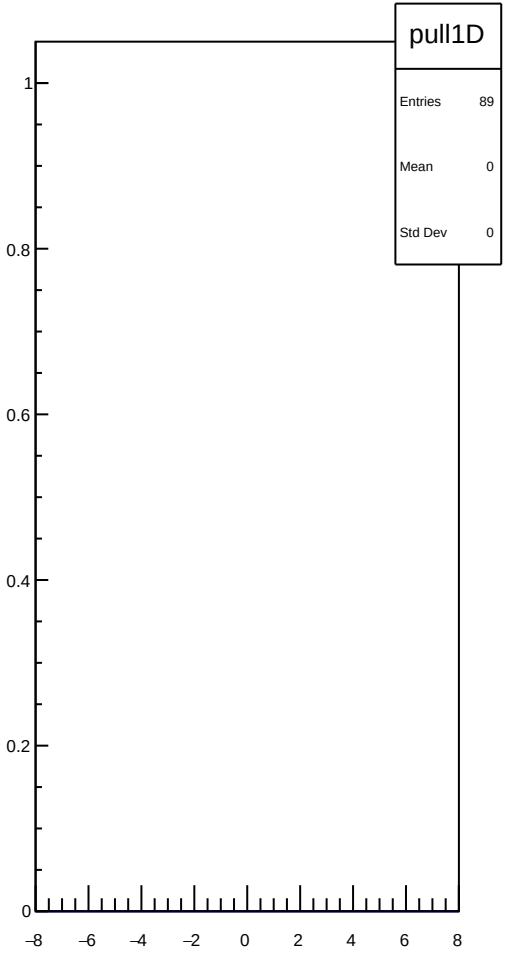

yield_bpm0l01X_rms vs run
χ^2 / ndf 3.733e+04 / 88
p0 0.007113 ± 5.525e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

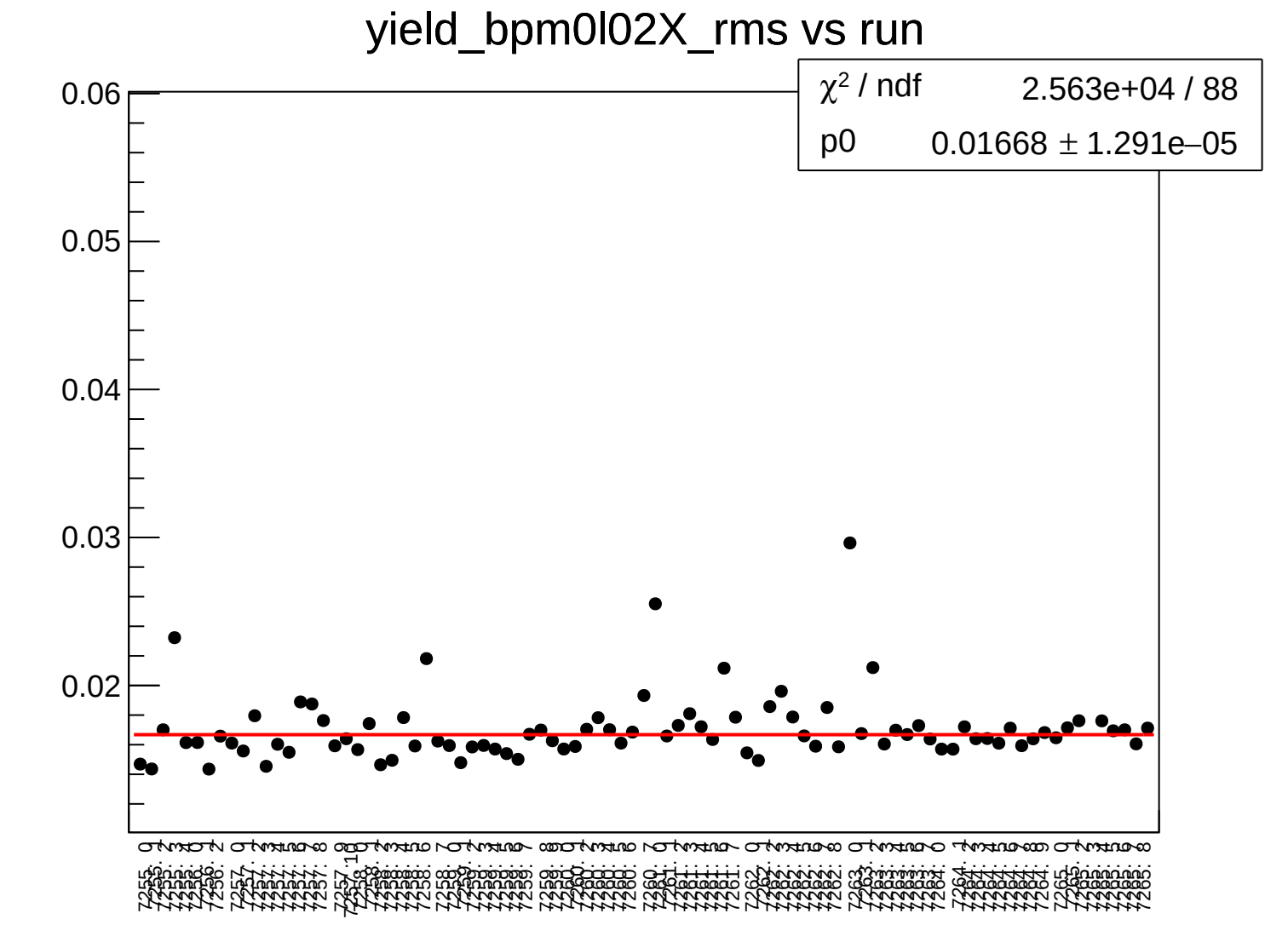

yield_bpm0l01Y_mean vs run
χ² / ndf 3.542e+06 / 88
p0 −5.836 ± 8.902e−06
−5.81
−5.82
−5.83
−5.84
−5.85
−5.86
−5.87
−5.88
−5.89
−5.9
pull
Entries 89
Mean 532.9
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
−600

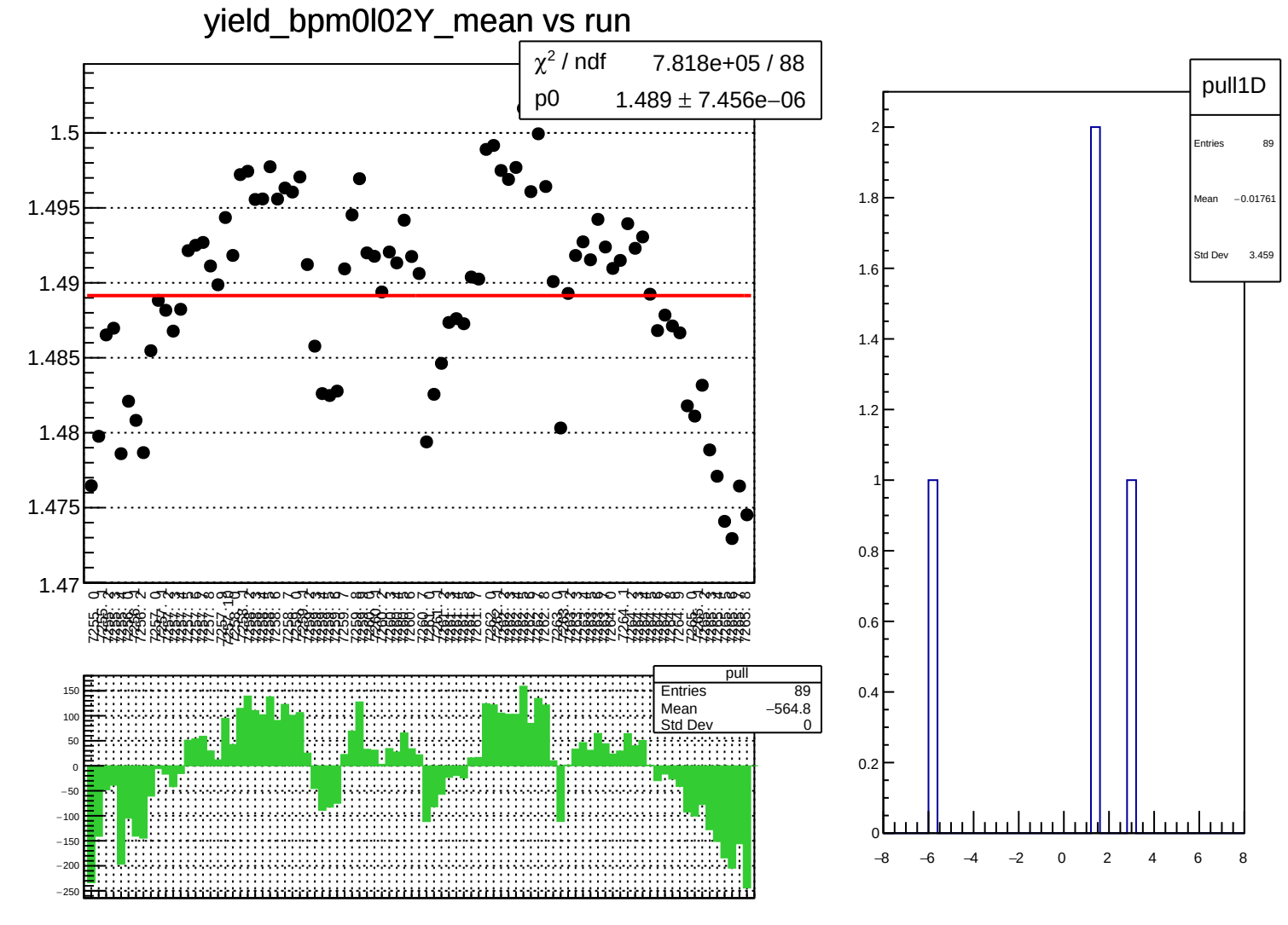

pull1D
Entries 89
Mean 2.572
Std Dev 3.376
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

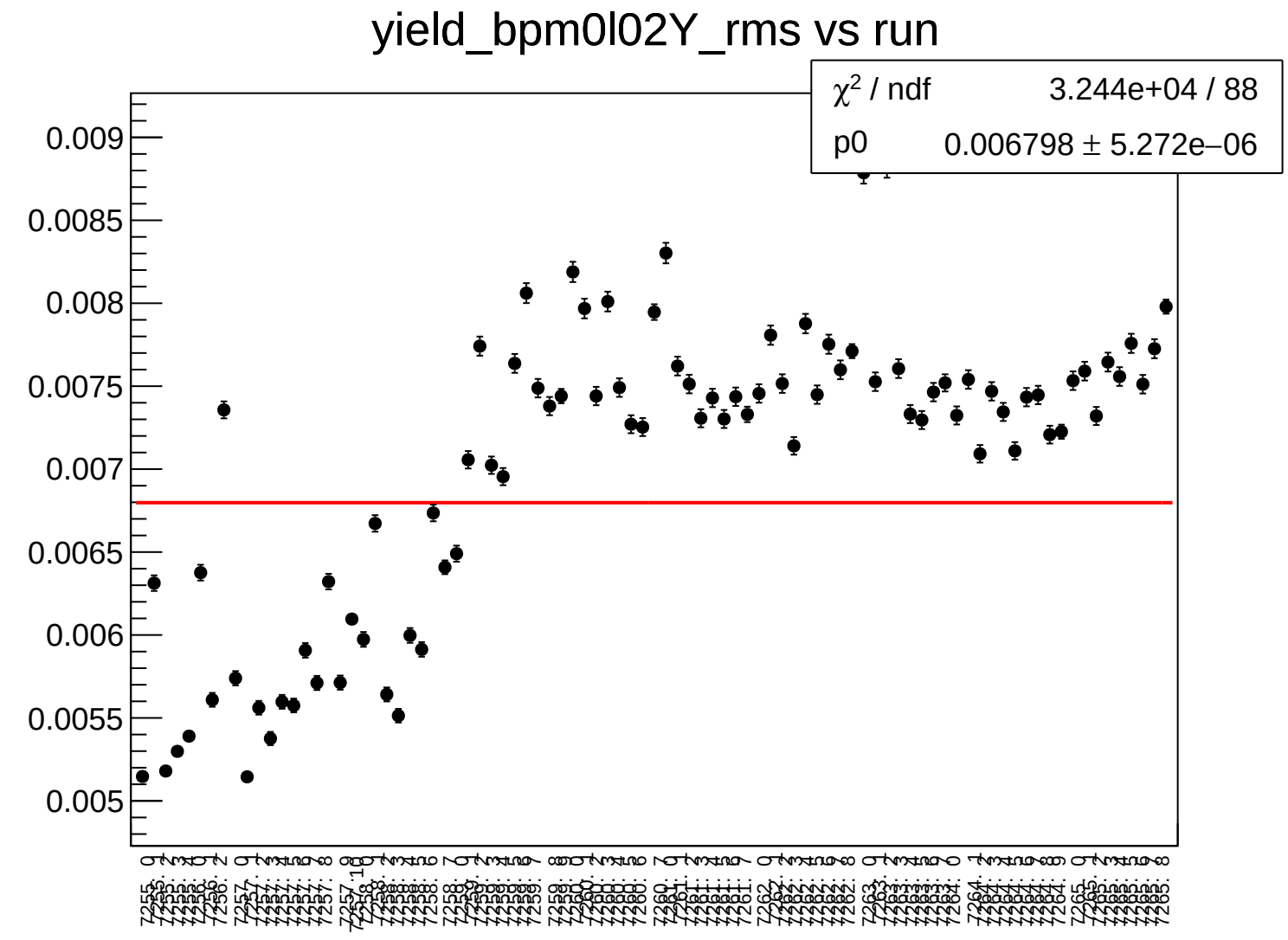

yield_bpm0l01Y_rms vs run
χ² / ndf 2.481e+04 / 88
p0 0.008135 ± 6.295e−06
0.011
0.01
0.009
0.008
0.007
0.006

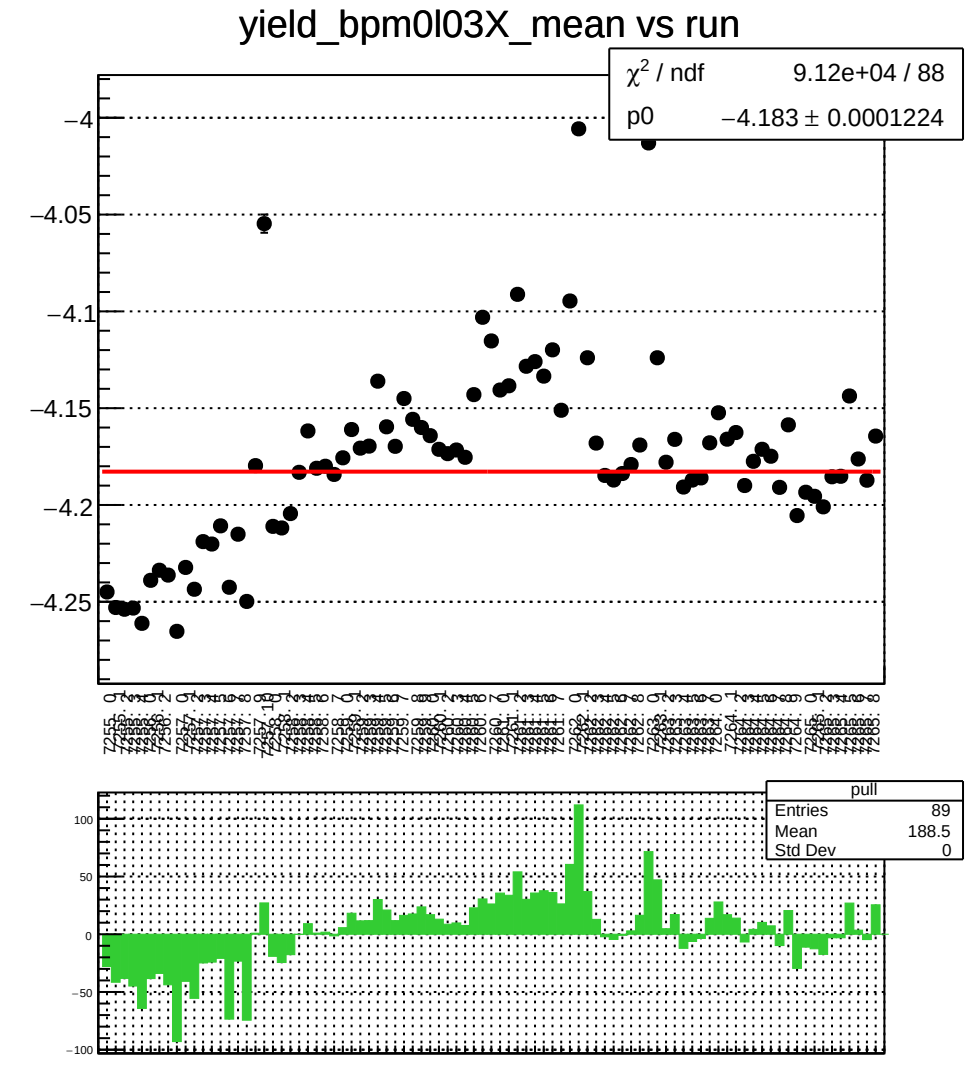

yield_bpm0l02X_mean vs run
χ² / ndf 8.435e+07 / 88
p0 −2.897 ± 1.825e−05
−2.7
−2.8
−2.9
−3
−3.1
−3.2
−3.3
pull
Entries 89
Mean 1581
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

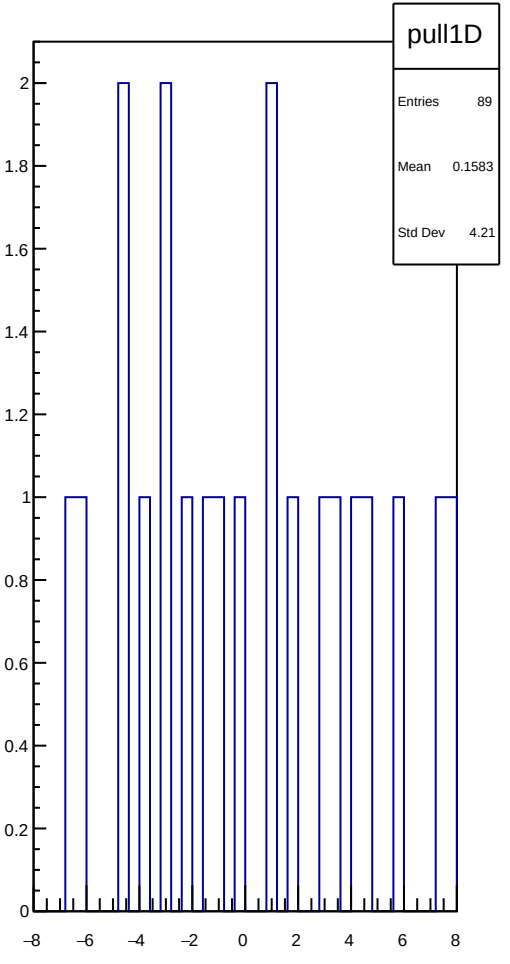

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

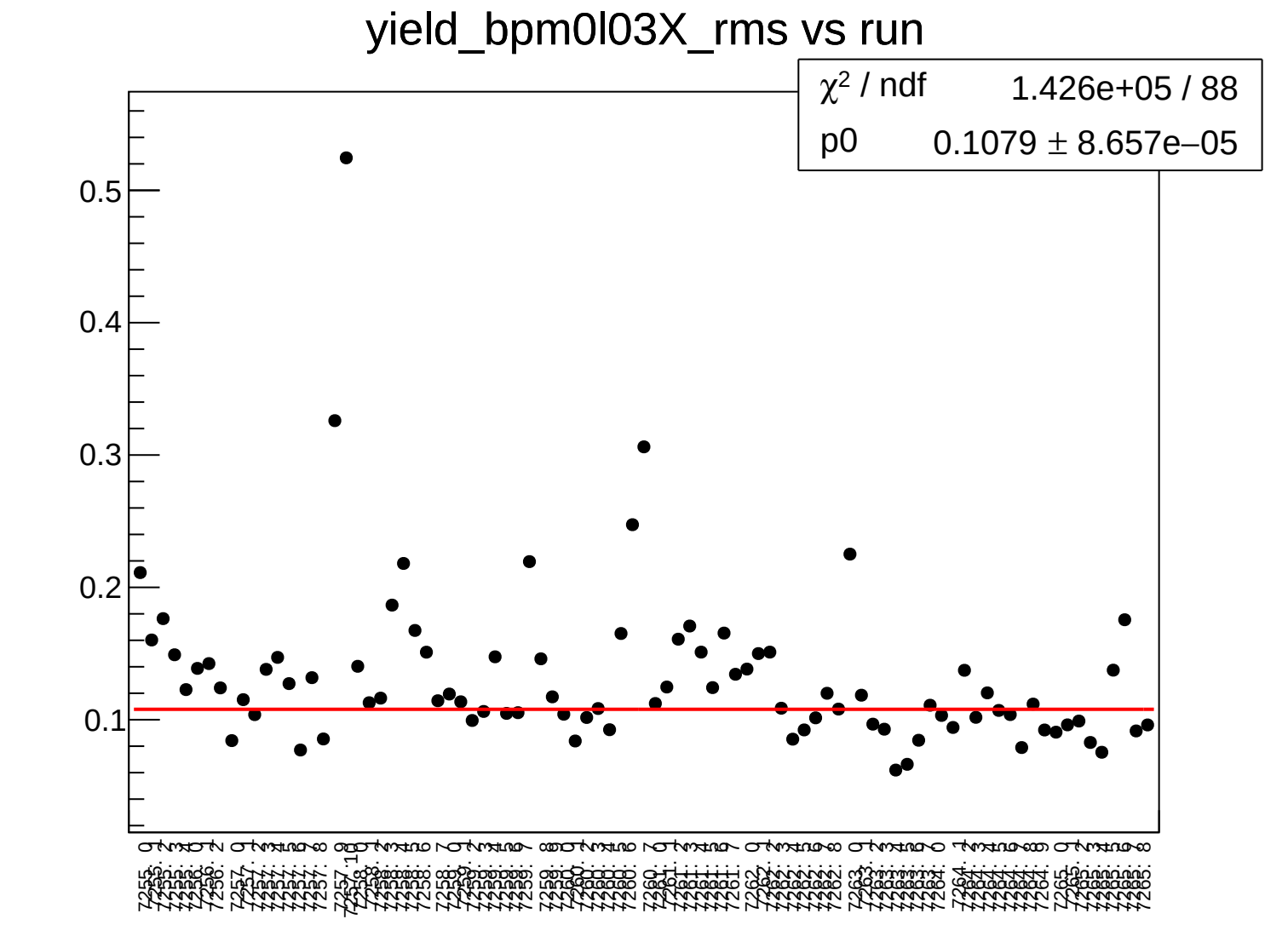

yield_bpm0l02X_rms vs run
χ² / ndf 2.563e+04 / 88
p0 0.01668 ± 1.291e–05
0.06
0.05
0.04
0.03
0.02

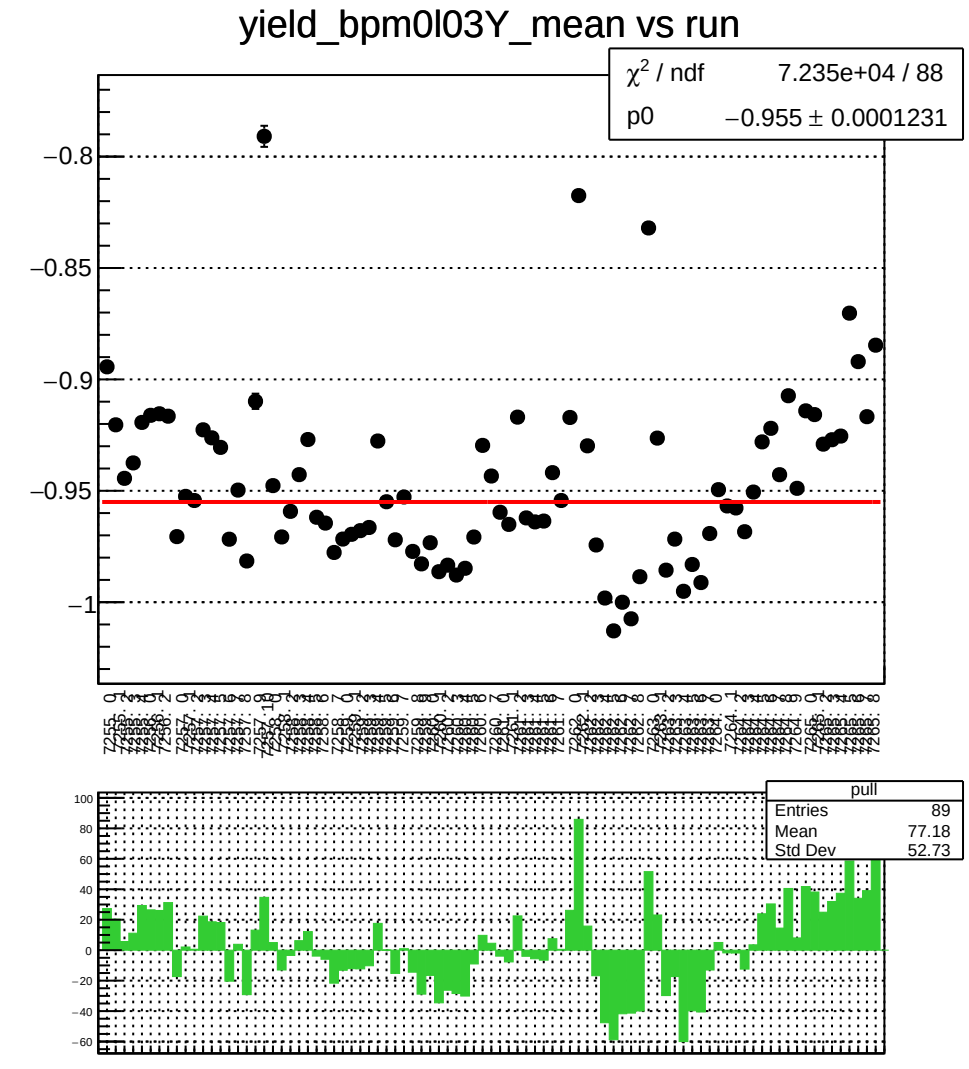

yield_bpm0l02Y_mean vs run
χ² / ndf 7.818e+05 / 88
p0 1.489 ± 7.456e−06
1.5
1.495
1.49
1.485
1.48
1.475
1.47
pull
Entries 89
Mean −564.8
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 89
Mean −0.01761
Std Dev 3.459
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

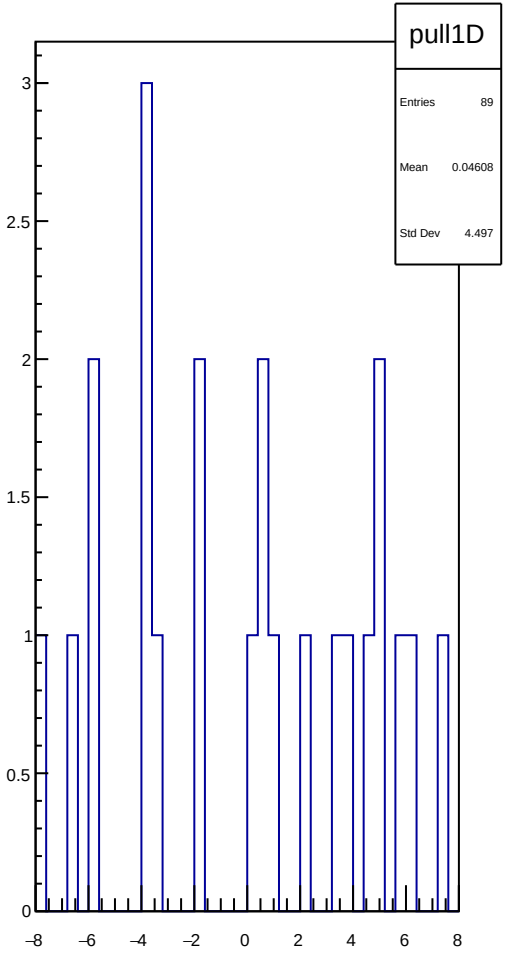

yield_bpm0l02Y_rms vs run
χ² / ndf 3.244e+04 / 88
p0 0.006798 ± 5.272e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

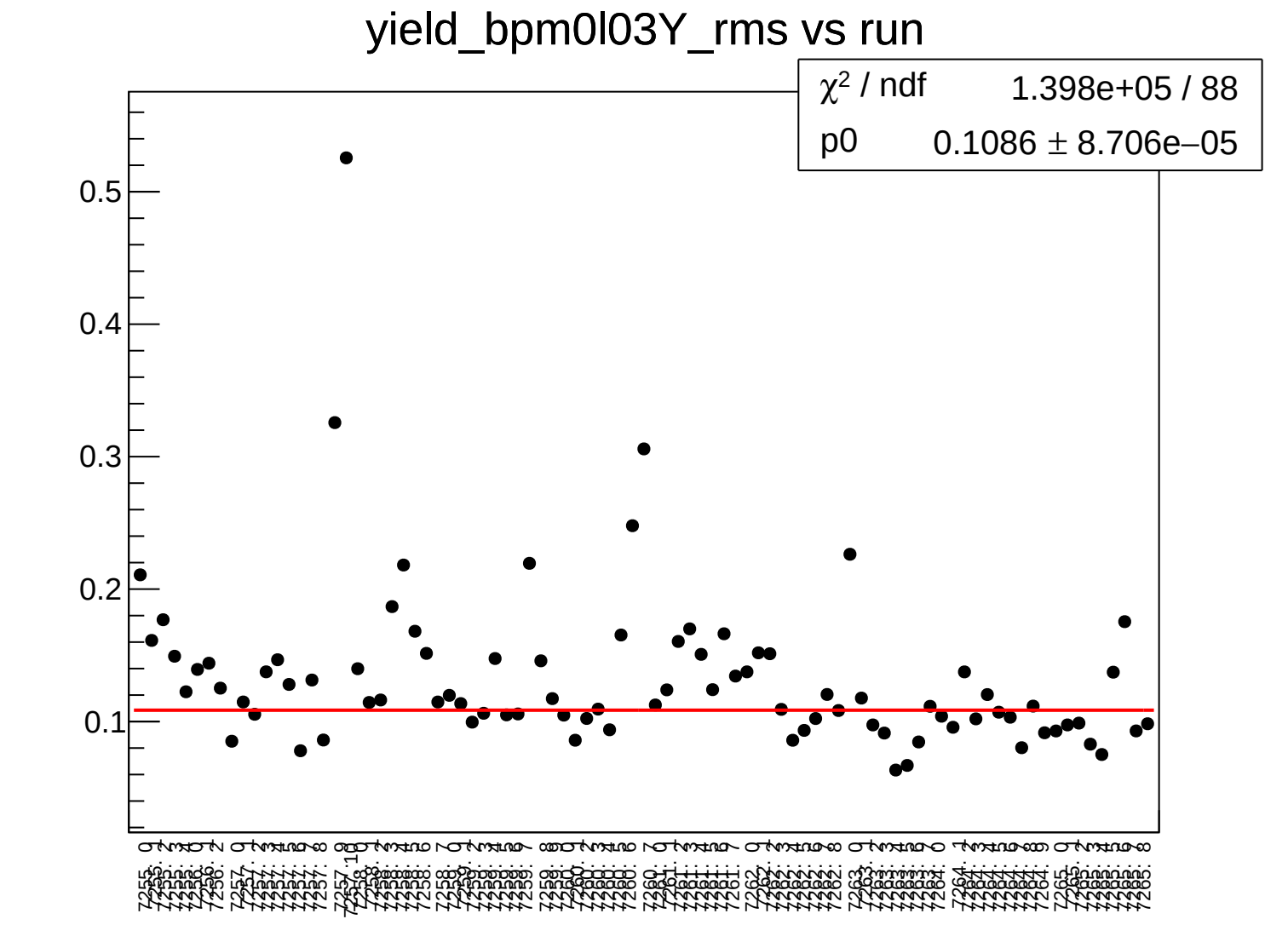

yield_bpm0l03X_mean vs run
χ² / ndf 9.12e+04 / 88
p0 −4.183 ± 0.0001224
−4
−4.05
−4.1
−4.15
−4.2
−4.25
pull
Entries 89
Mean 188.5
Std Dev 0
100
50
0
−50
−100

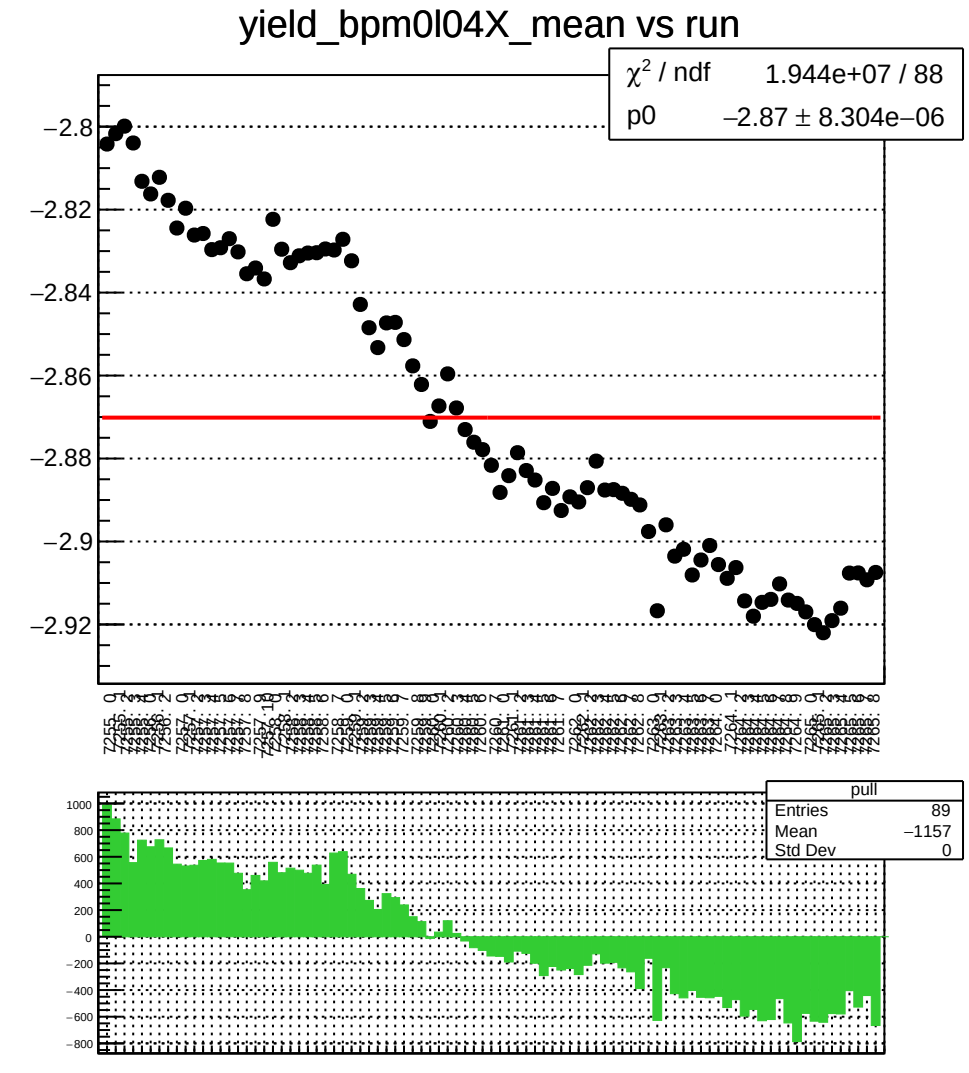

pull1D
Entries 89
Mean 0.1583
Std Dev 4.21
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

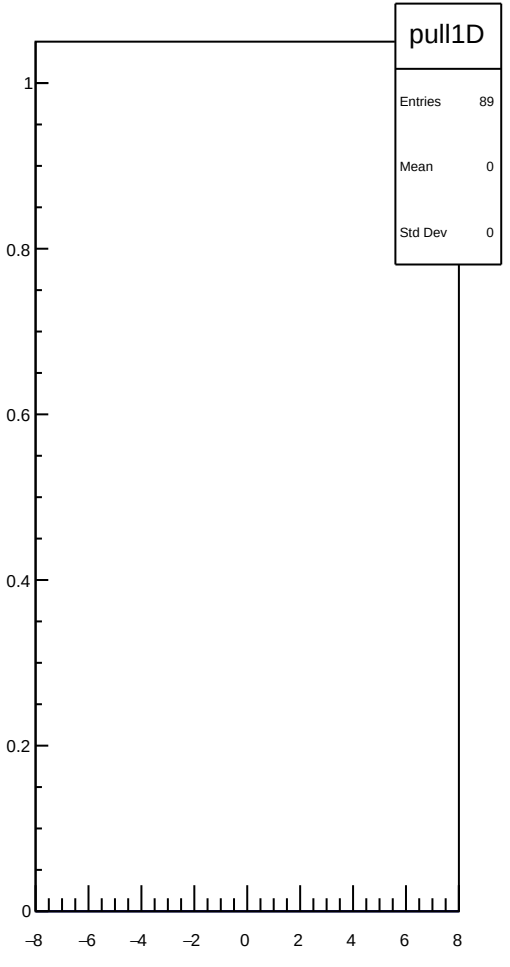

yield_bpm0l03X_rms vs run
χ² / ndf 1.426e+05 / 88
p0 0.1079 ± 8.657e−05
0.5
0.4
0.3
0.2
0.1

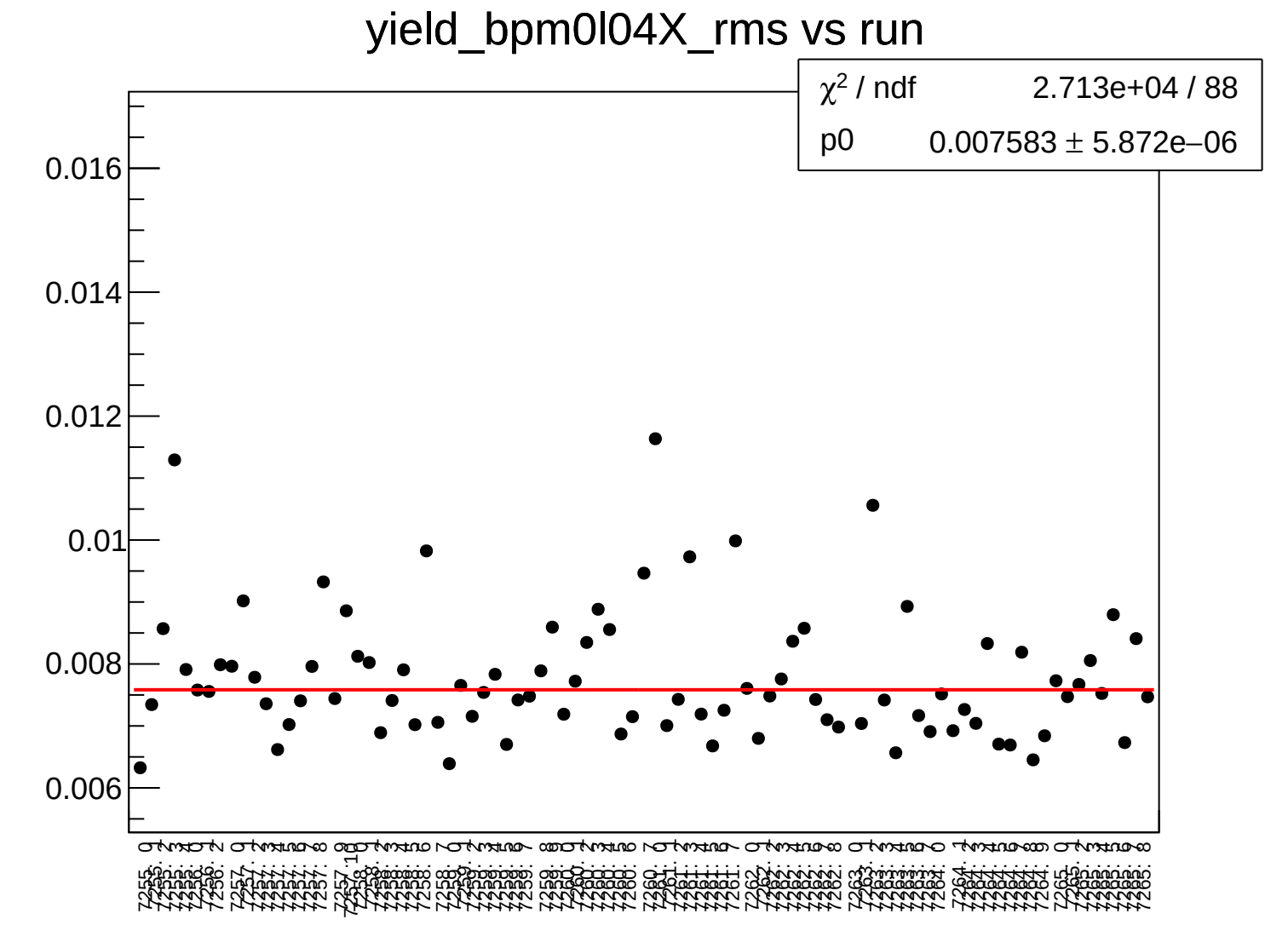

yield_bpm0l03Y_mean vs run
χ² / ndf 7.235e+04 / 88
p0 −0.955 ± 0.0001231
−0.8
−0.85
−0.9
−0.95
−1
pull
Entries 89
Mean 77.18
Std Dev 52.73
100
80
60
40
20
0
−20
−40
−60

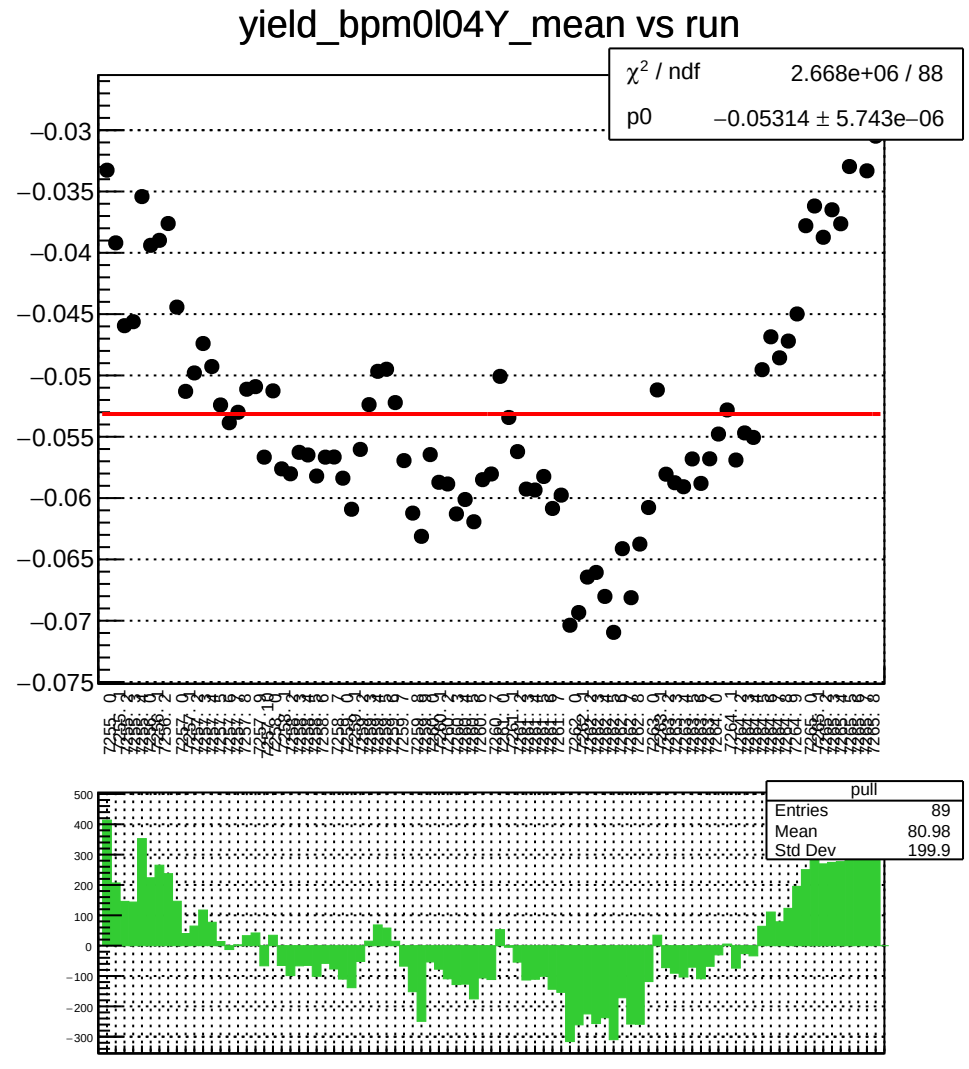

pull1D
Entries 89
Mean 0.04608
Std Dev 4.497
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

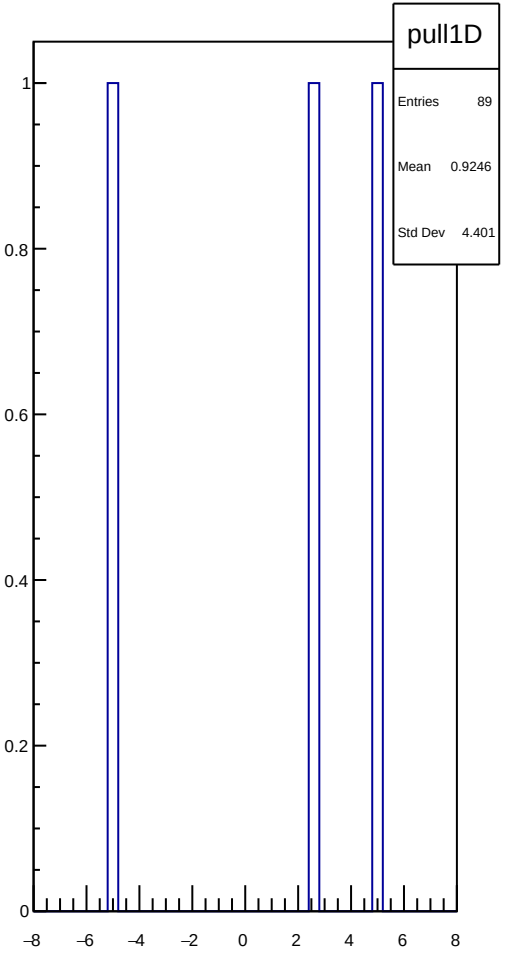

yield_bpm0l03Y_rms vs run
χ² / ndf 1.398e+05 / 88
p0 0.1086 ± 8.706e−05
0.5
0.4
0.3
0.2
0.1

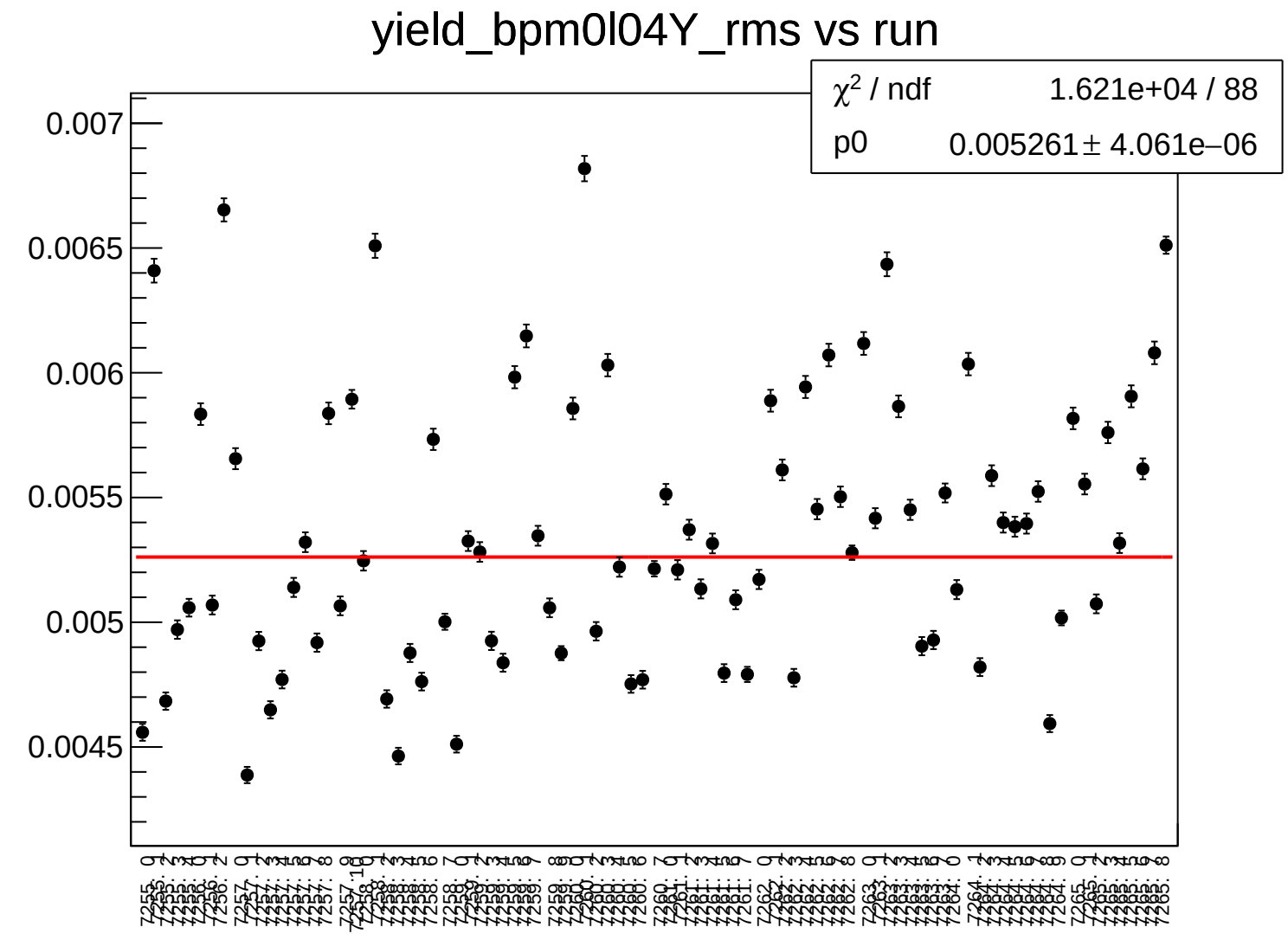

yield_bpm0l04X_mean vs run
χ² / ndf 1.944e+07 / 88
p0 −2.87 ± 8.304e−06
−2.8
−2.82
−2.84
−2.86
−2.88
−2.9
−2.92
pull
Entries 89
Mean −1157
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

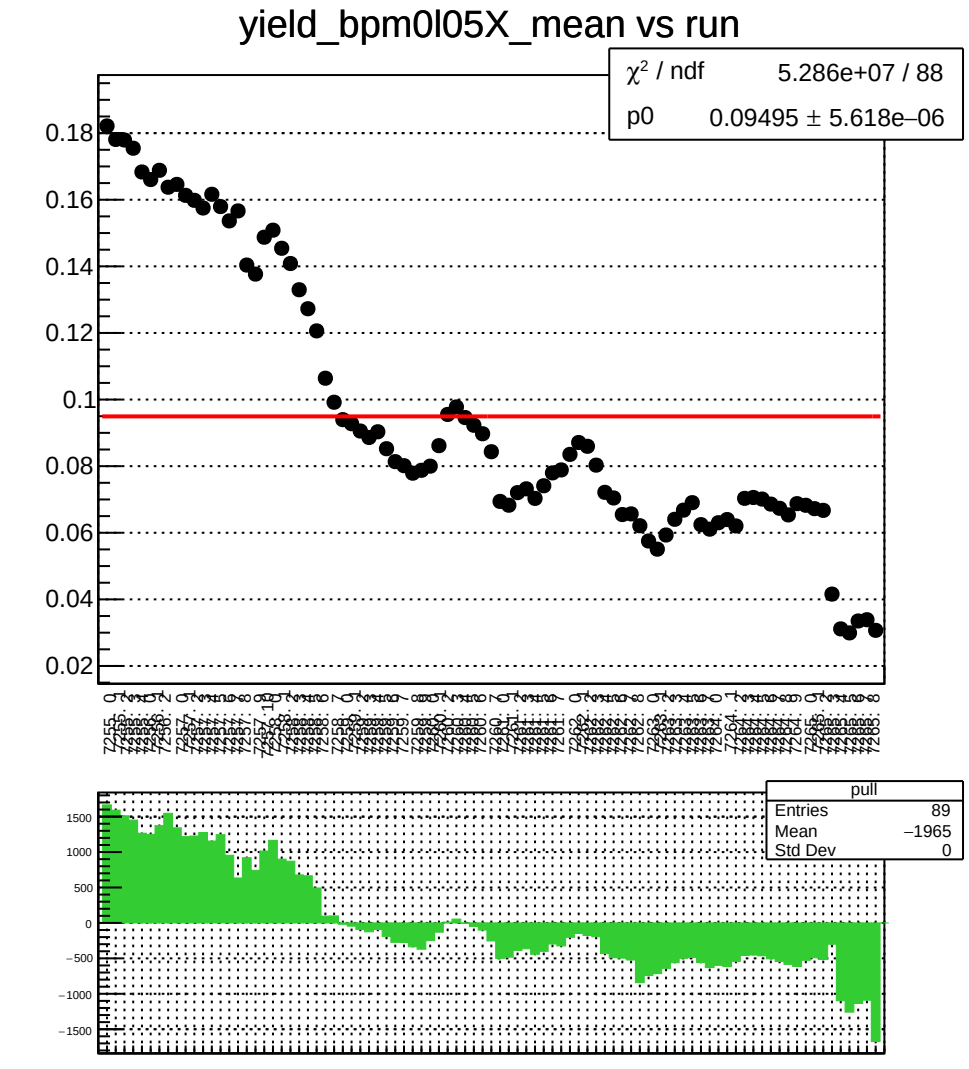

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

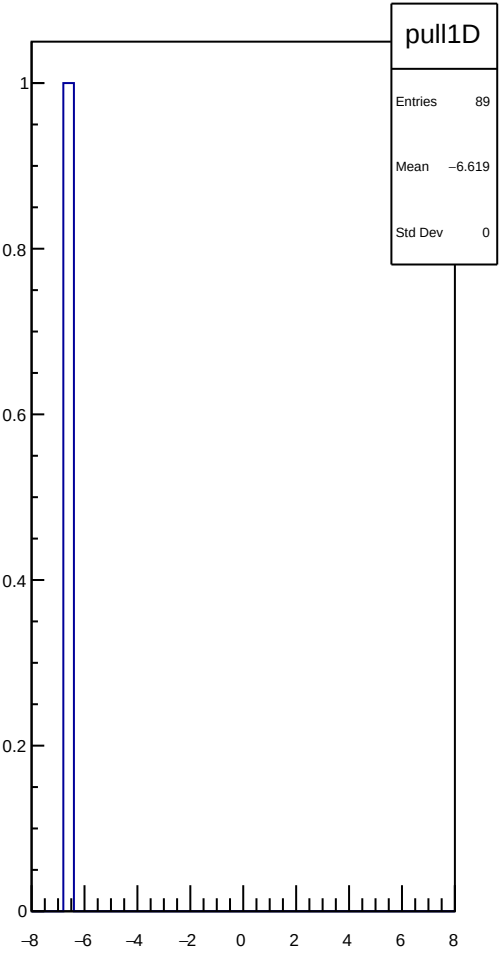

yield_bpm0l04X_rms vs run
χ² / ndf 2.713e+04 / 88
p0 0.007583 ± 5.872e−06
0.016
0.014
0.012
0.01
0.008
0.006

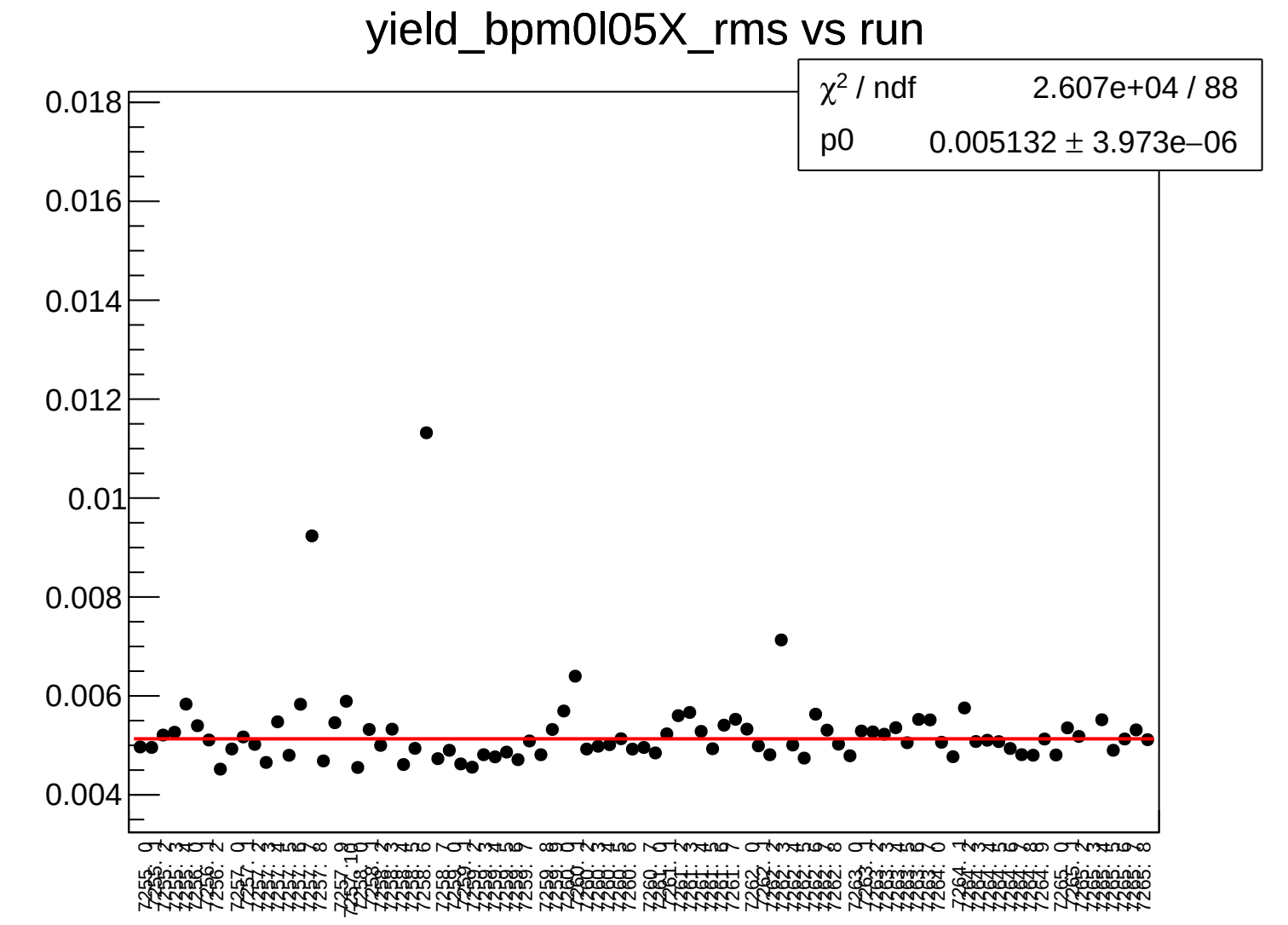

yield_bpm0l04Y_mean vs run
χ² / ndf 2.668e+06 / 88
p0 −0.05314 ± 5.743e−06
pull
Entries 89
Mean 80.98
Std Dev 199.9

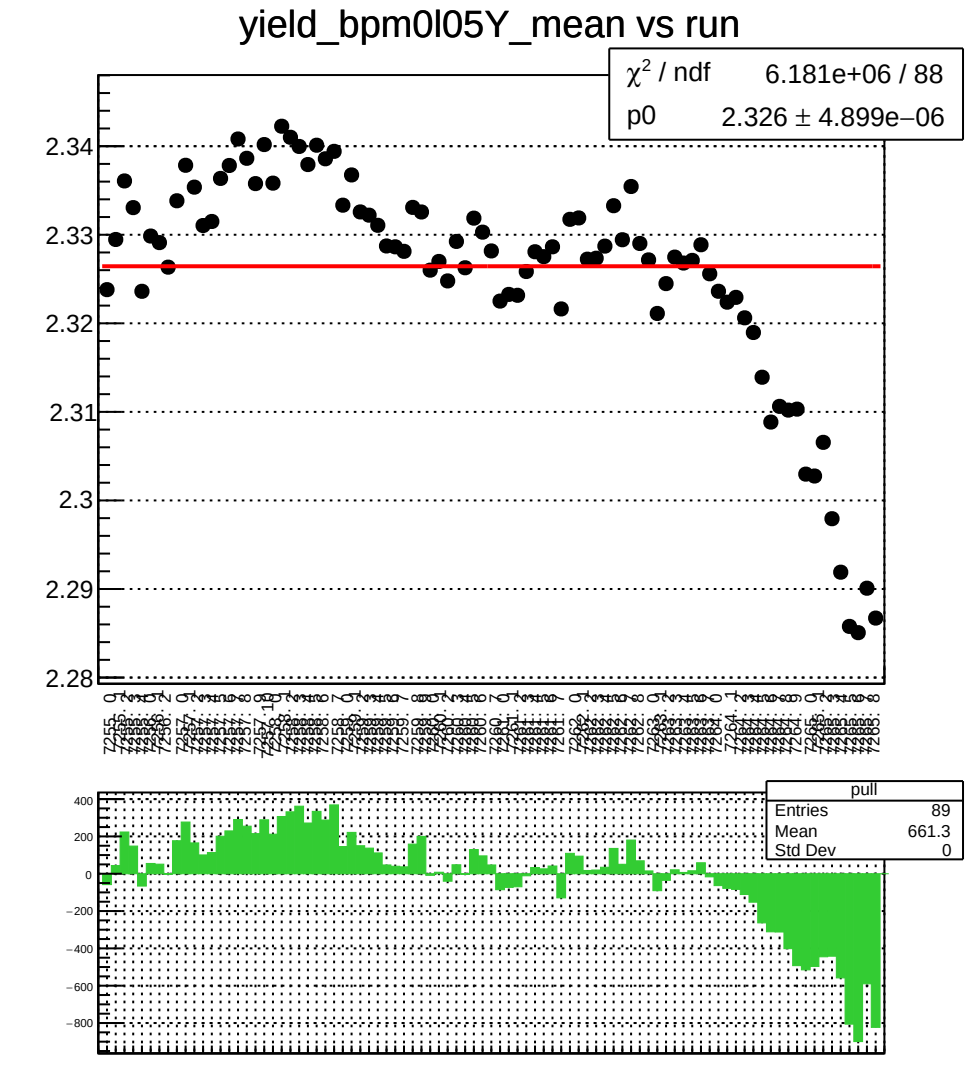

pull1D
Entries 89
Mean 0.9246
Std Dev 4.401

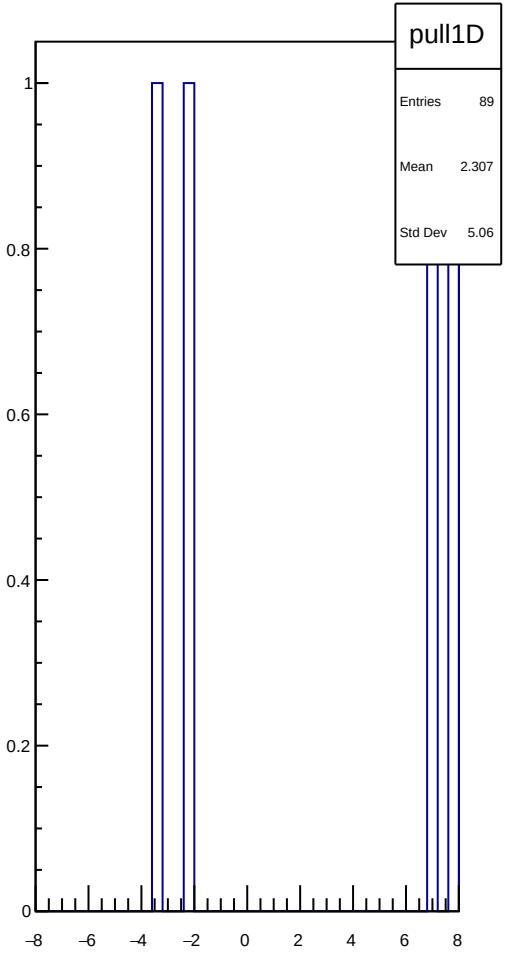

yield_bpm0l04Y_rms vs run
χ² / ndf 1.621e+04 / 88
p0 0.005261 ± 4.061e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045

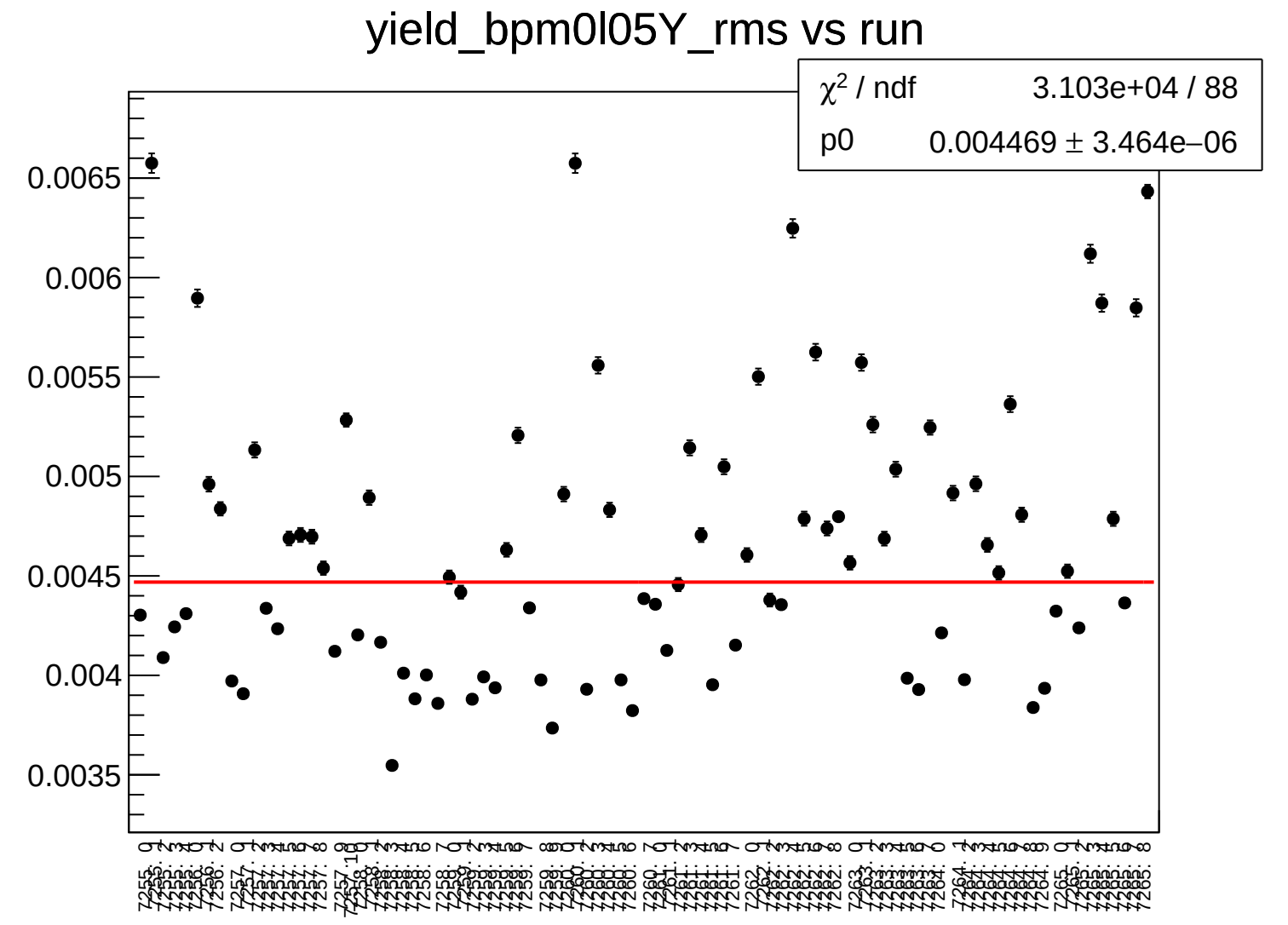

yield_bpm0l05X_mean vs run
χ² / ndf 5.286e+07 / 88
p0 0.09495 ± 5.618e−06
pull
Entries 89
Mean −1965
Std Dev 0

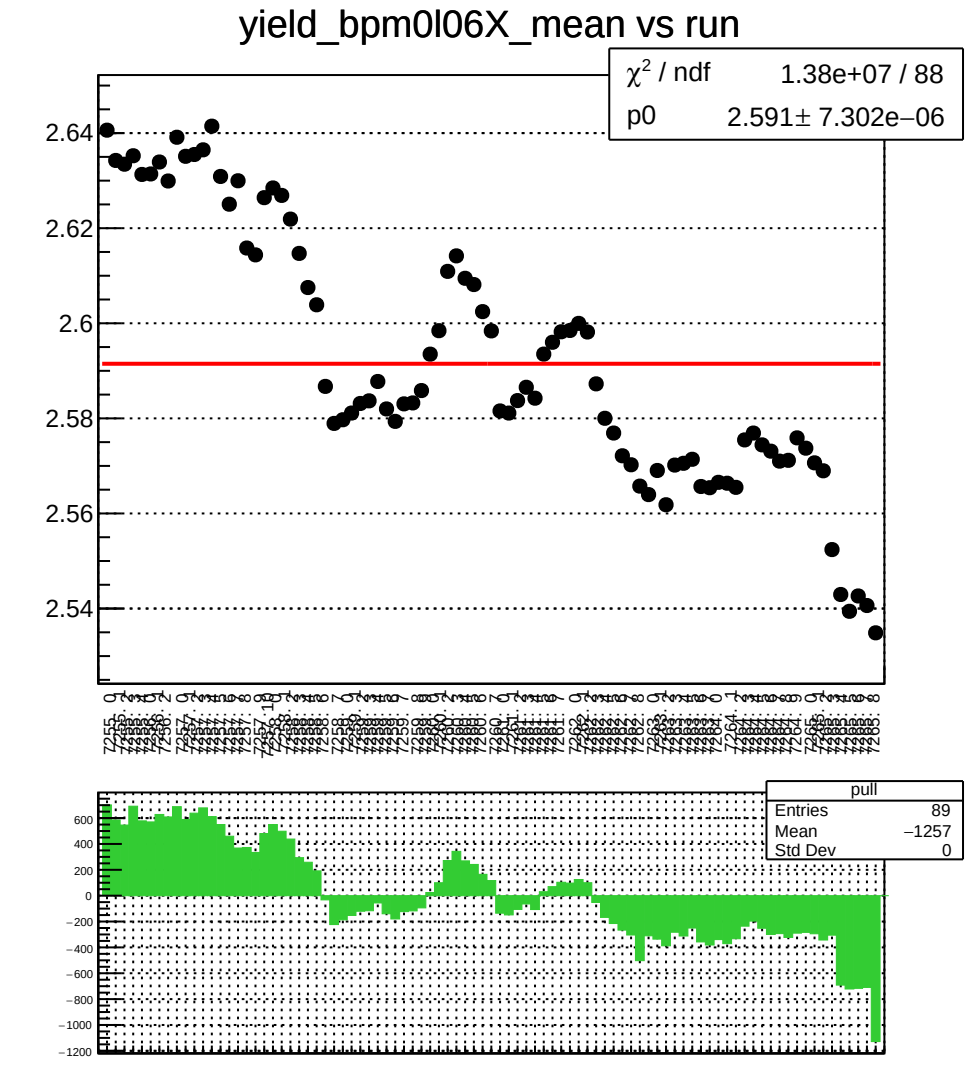

pull1D
Entries 89
Mean −6.619
Std Dev 0

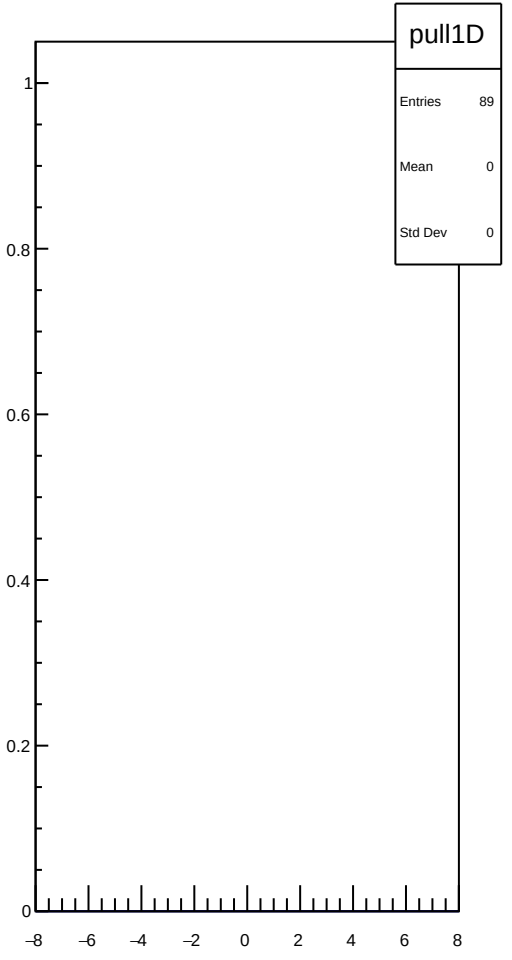

yield_bpm0l05X_rms vs run
χ² / ndf 2.607e+04 / 88
p0 0.005132 ± 3.973e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

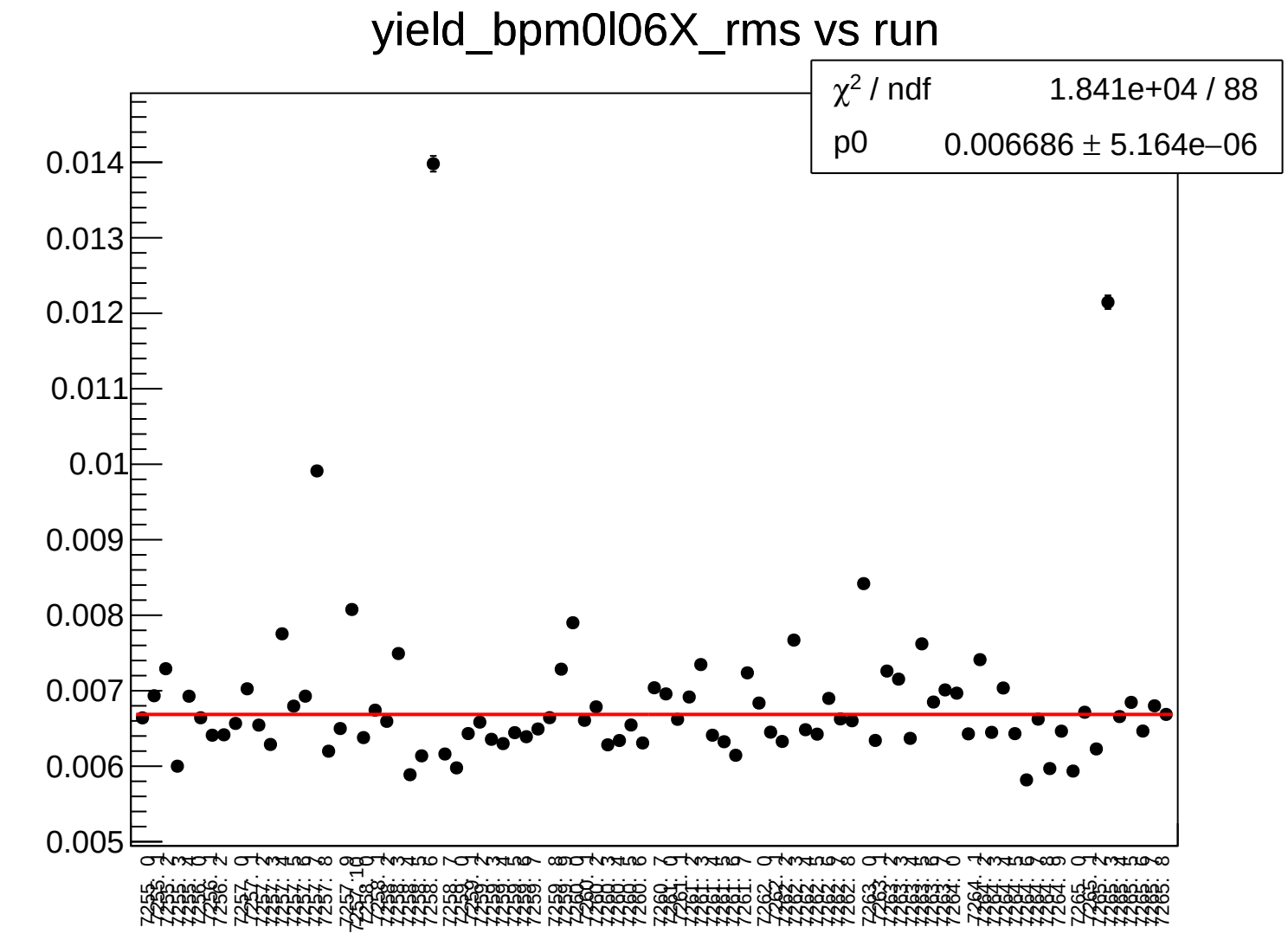

yield_bpm0l05Y_mean vs run
χ² / ndf 6.181e+06 / 88
p0 2.326 ± 4.899e−06
2.34
2.33
2.32
2.31
2.3
2.29
2.28
pull
Entries 89
Mean 661.3
Std Dev 0
400
200
0
−200
−400
−600
−800

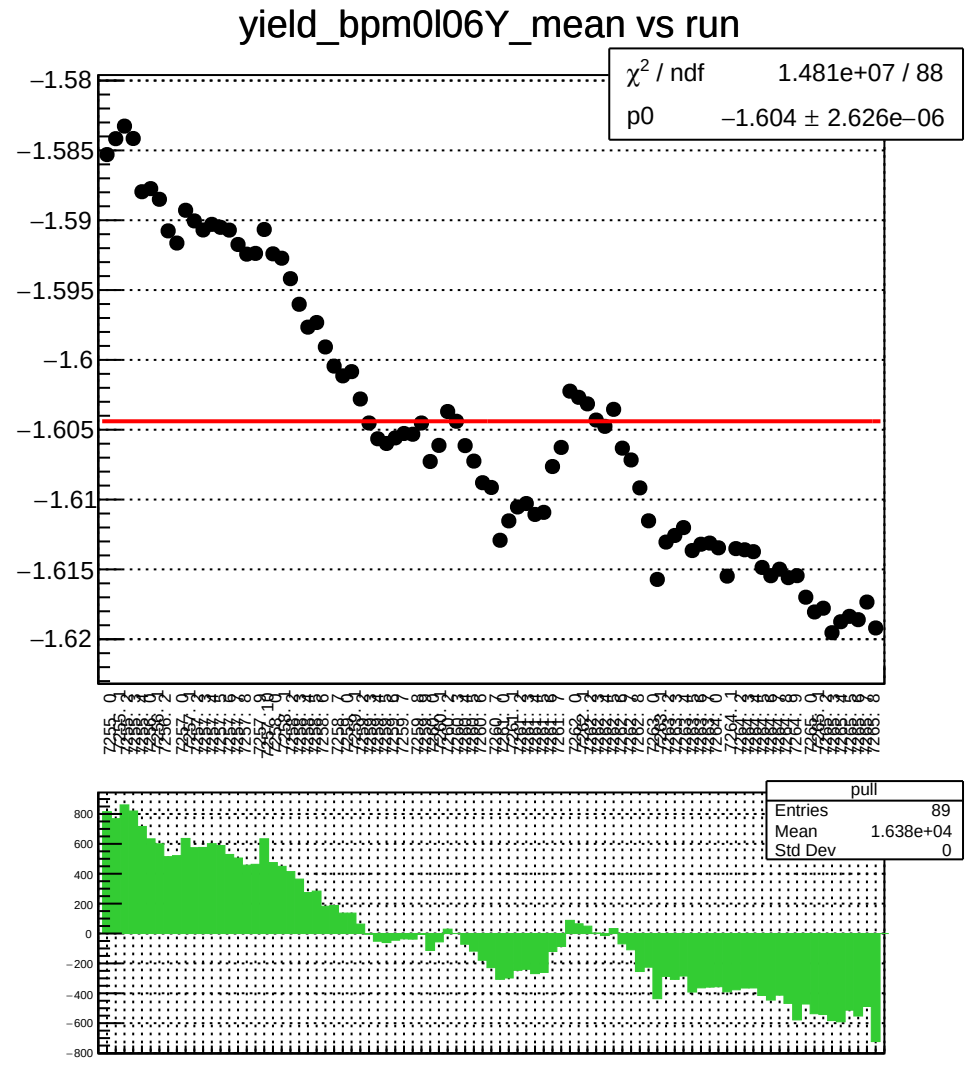

pull1D
Entries 89
Mean 2.307
Std Dev 5.06
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

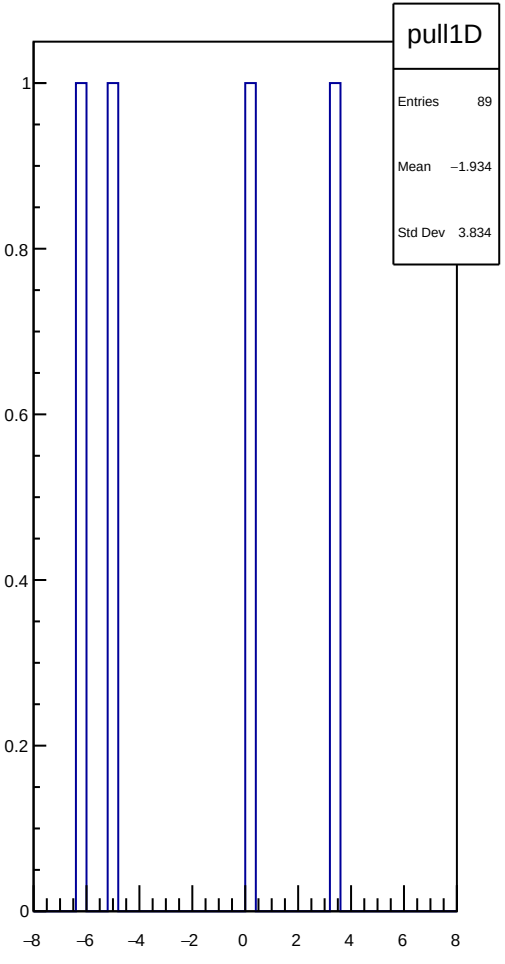

yield_bpm0l05Y_rms vs run
χ² / ndf 3.103e+04 / 88
p0 0.004469 ± 3.464e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

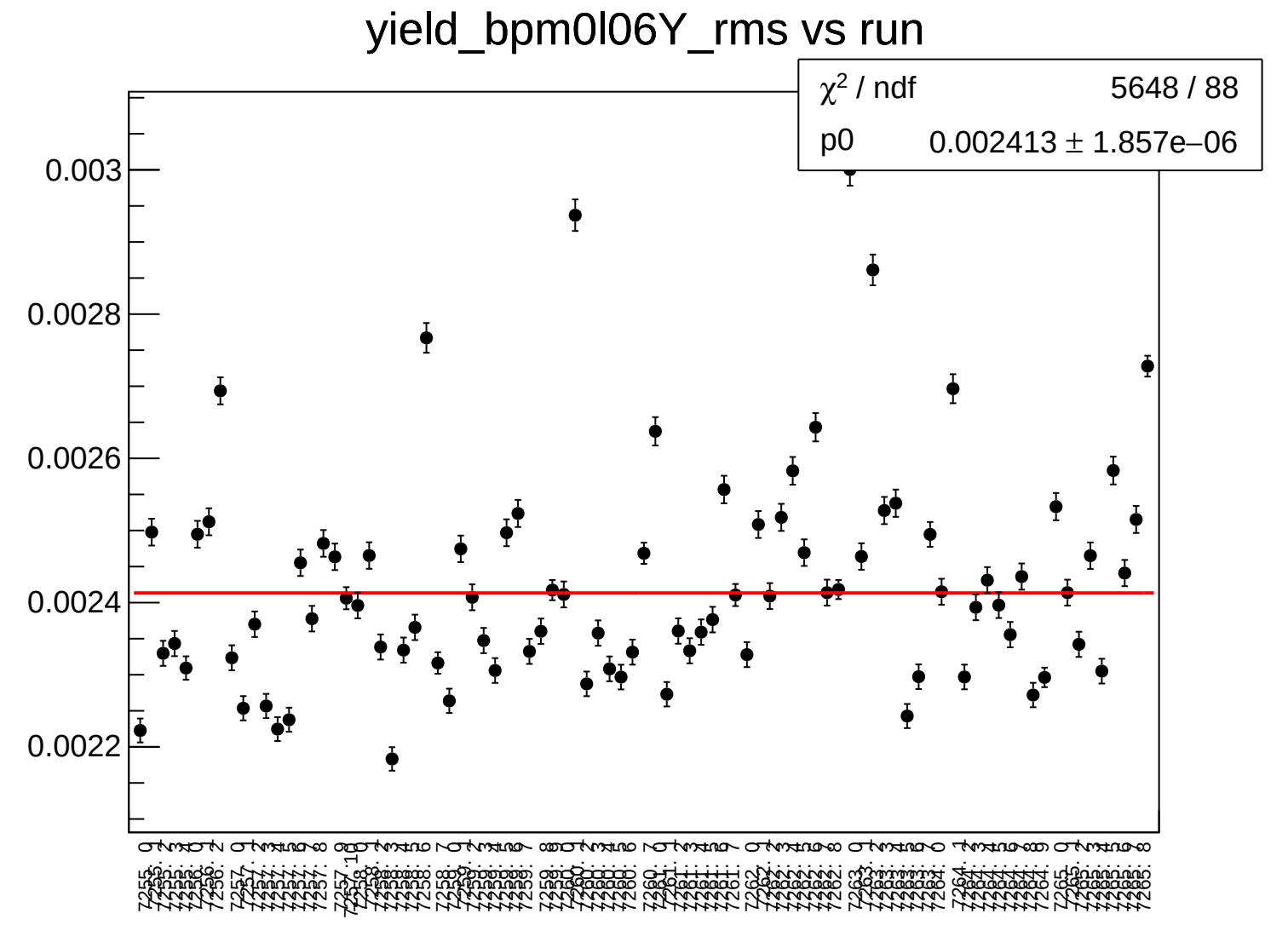

yield_bpm0l06X_mean vs run
χ² / ndf 1.38e+07 / 88
p0 2.591± 7.302e−06
2.64
2.62
2.6
2.58
2.56
2.54
pull
Entries 89
Mean −1257
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

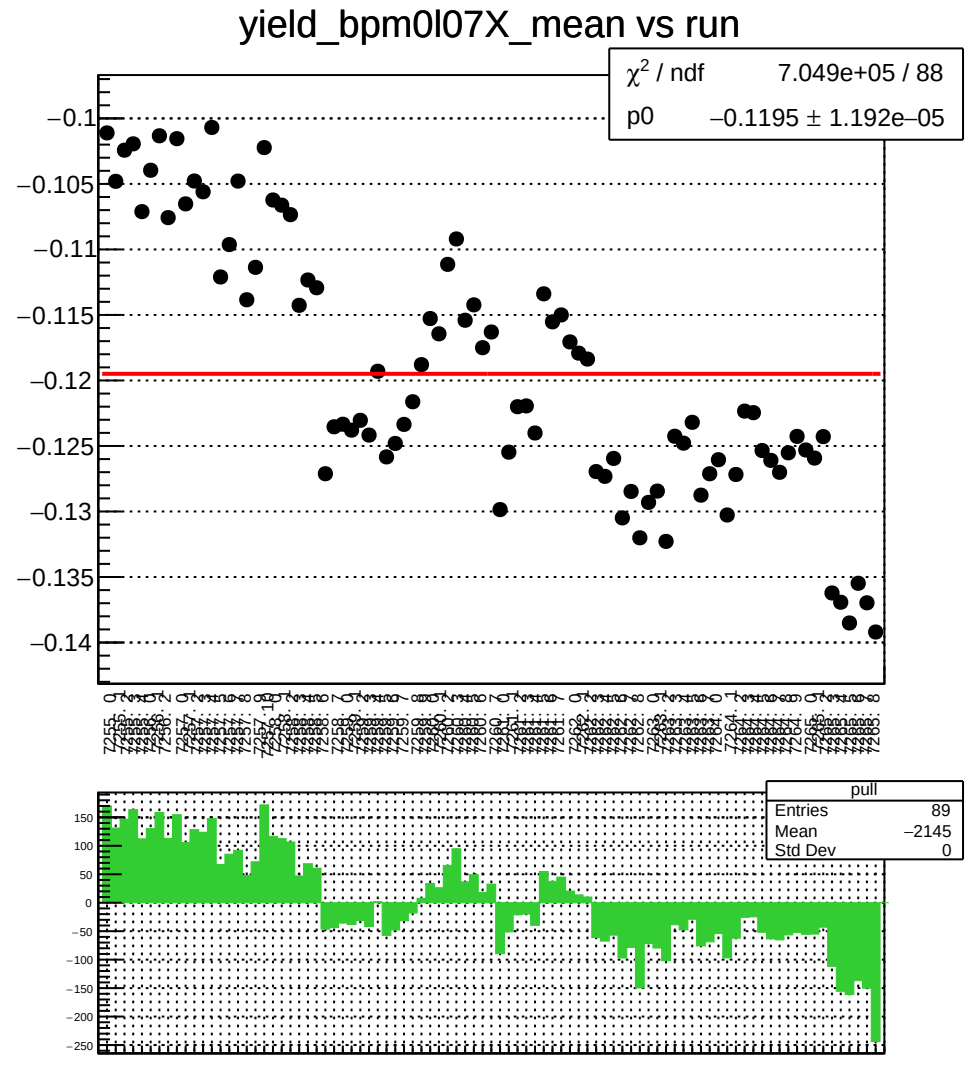

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

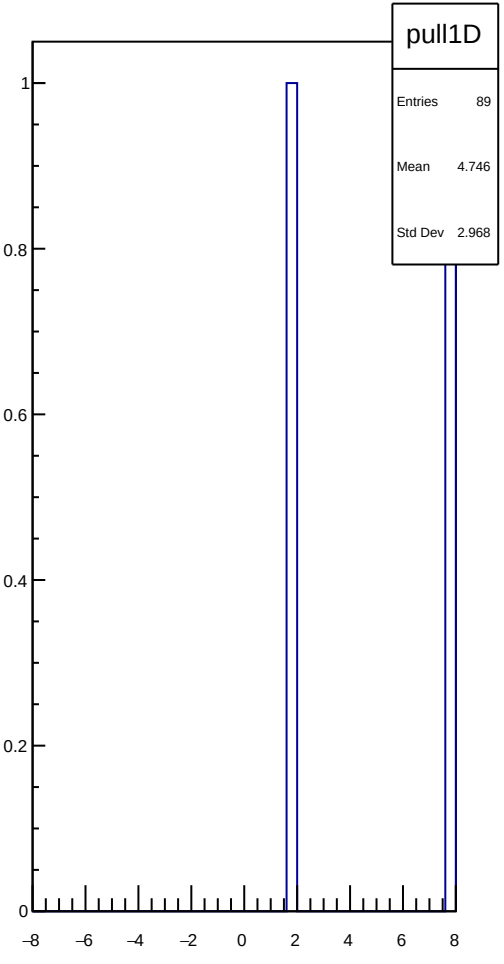

yield_bpm0l06X_rms vs run
χ² / ndf 1.841e+04 / 88
p0 0.006686 ± 5.164e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

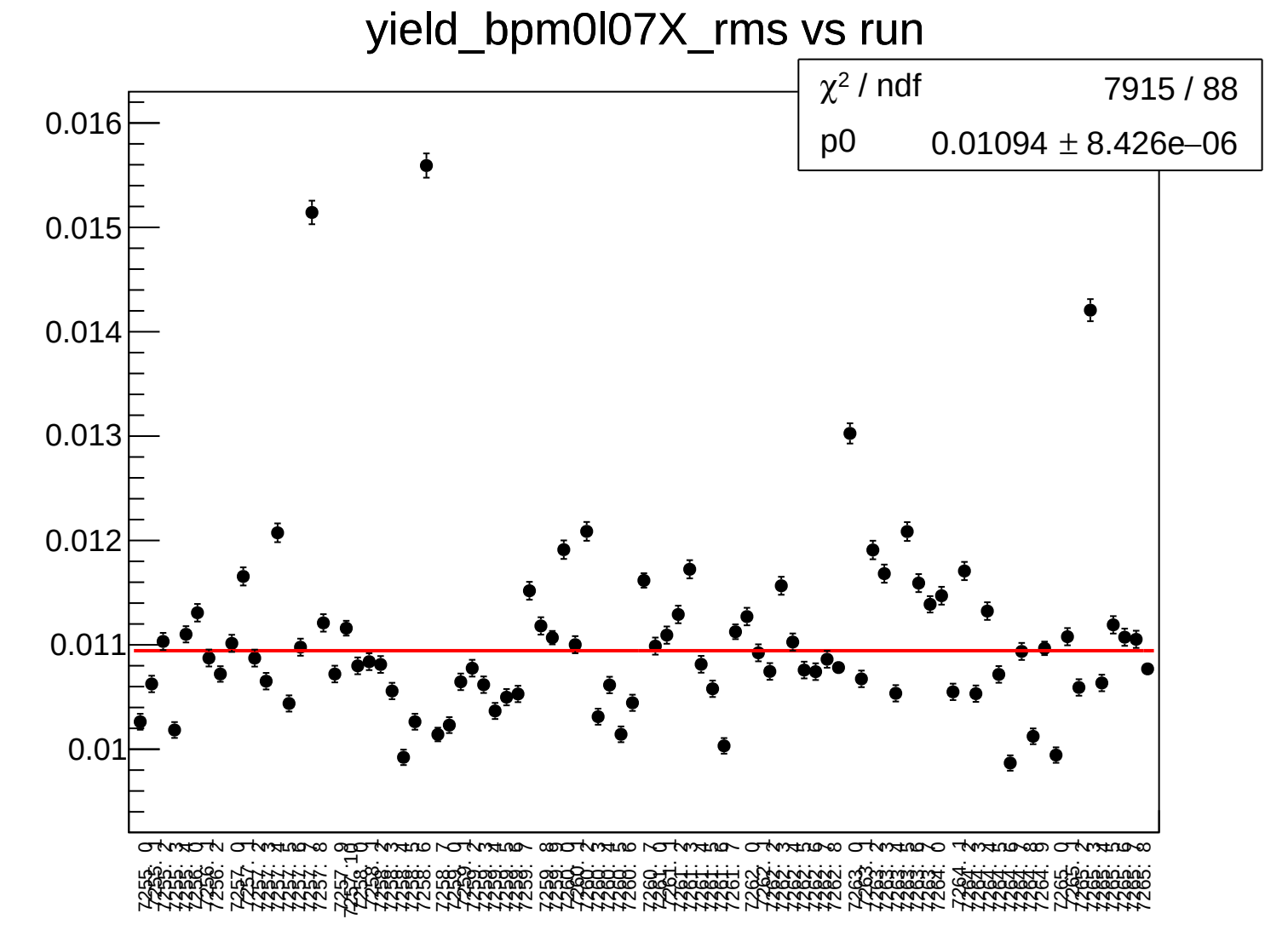

yield_bpm0l06Y_mean vs run
χ² / ndf 1.481e+07 / 88
p0 −1.604 ± 2.626e−06
−1.58
−1.585
−1.59
−1.595
−1.6
−1.605
−1.61
−1.615
−1.62
pull
Entries 89
Mean 1.638e+04
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

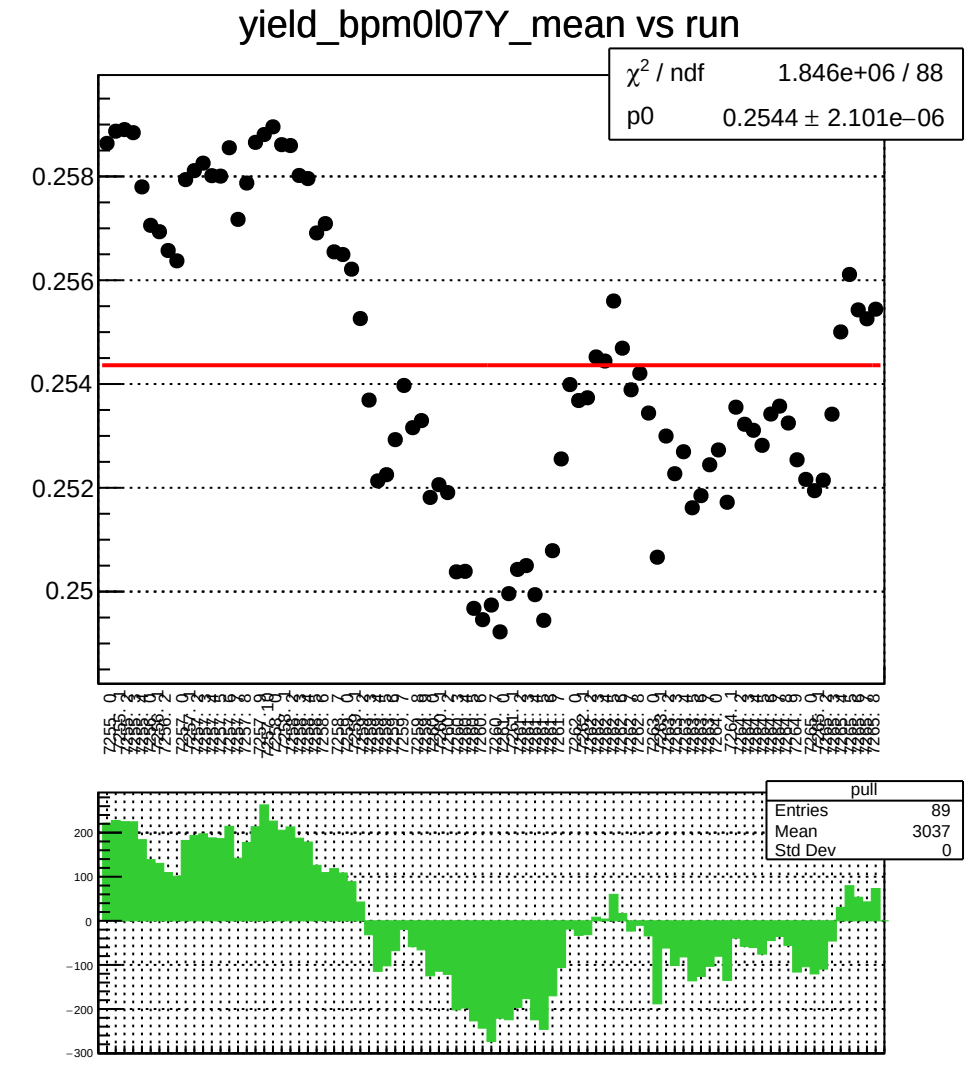

pull1D
Entries 89
Mean −1.934
Std Dev 3.834
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

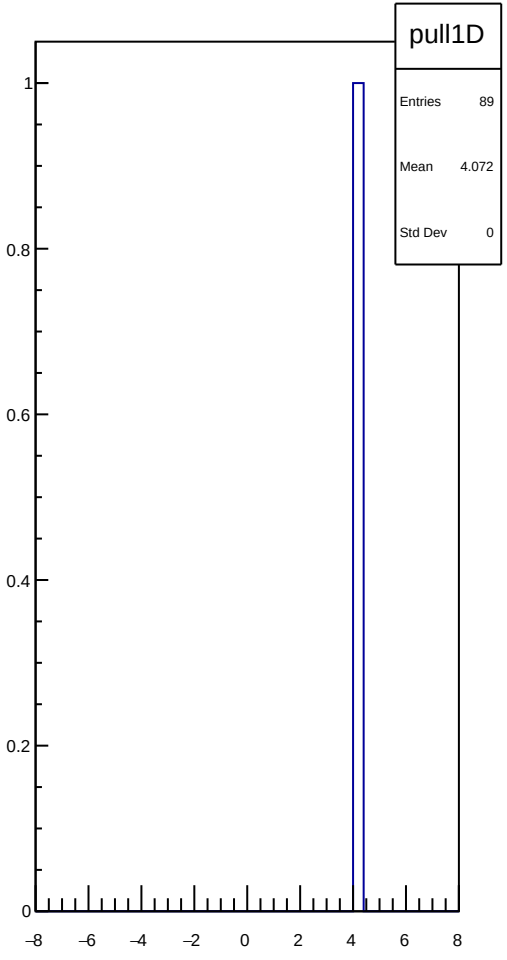

yield_bpm0l06Y_rms vs run
χ^2 / ndf 5648 / 88
p0 0.002413 ± 1.857e−06
0.003
0.0028
0.0026
0.0024
0.0022

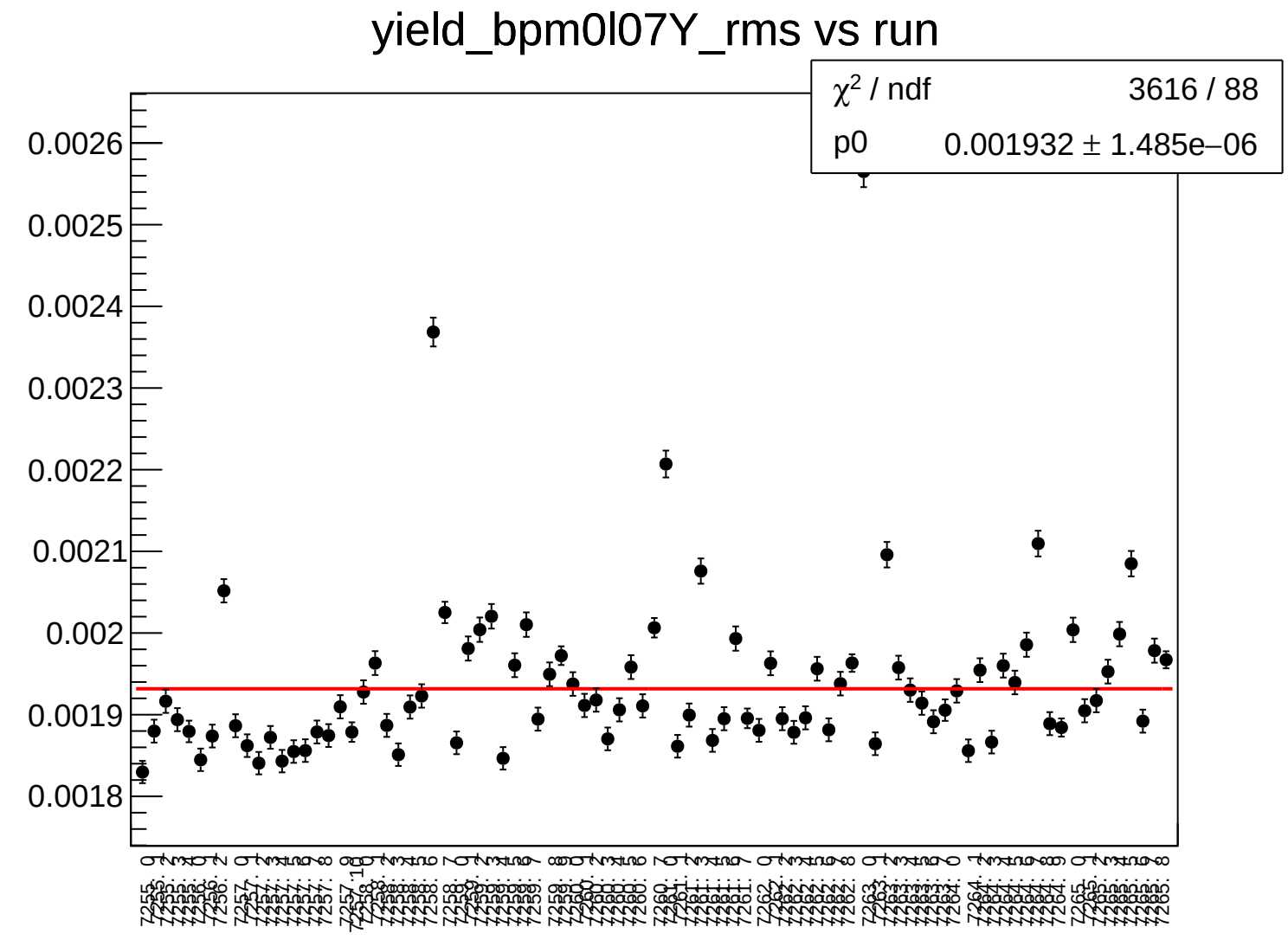

yield_bpm0l07X_mean vs run
χ² / ndf 7.049e+05 / 88
p0 −0.1195 ± 1.192e−05
pull
Entries 89
Mean −2145
Std Dev 0

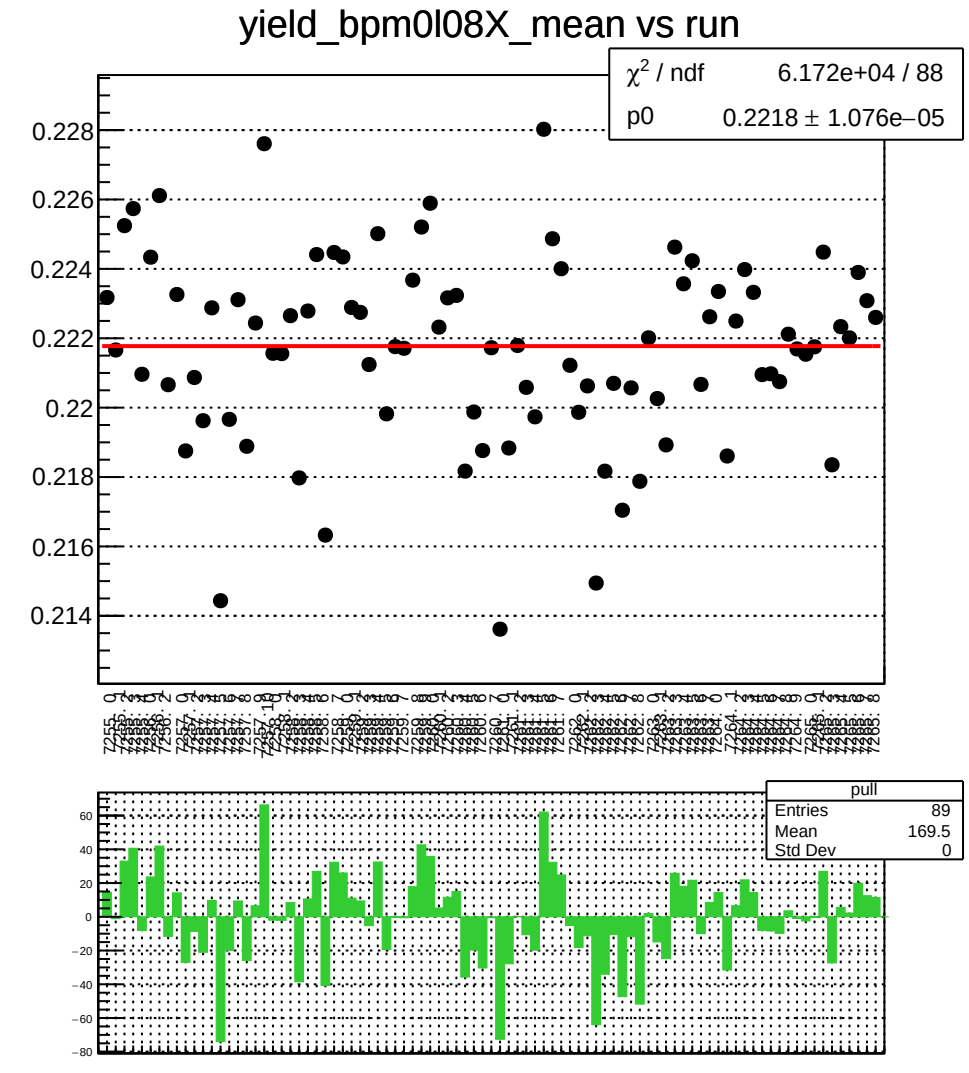

pull1D
Entries 89
Mean 4.746
Std Dev 2.968

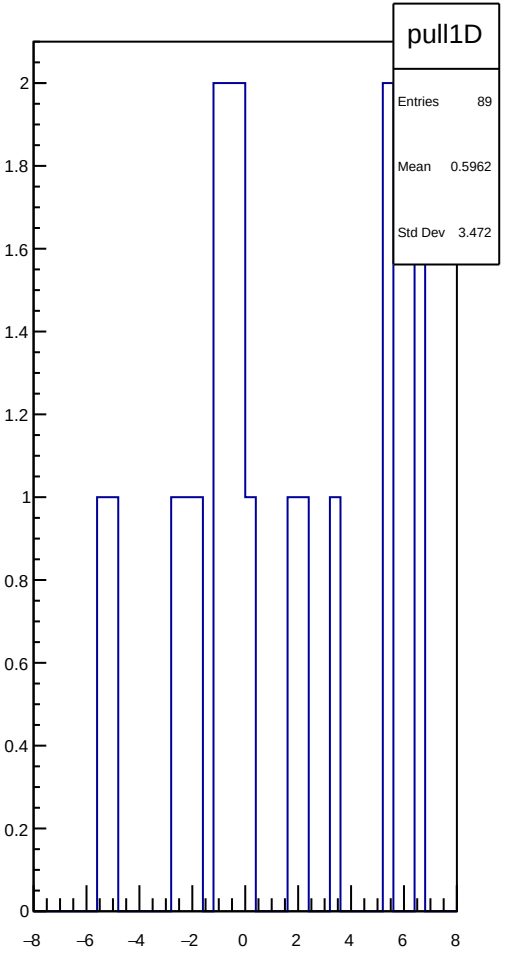

yield_bpm0l07X_rms vs run
χ² / ndf 7915 / 88
p0 0.01094 ± 8.426e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01

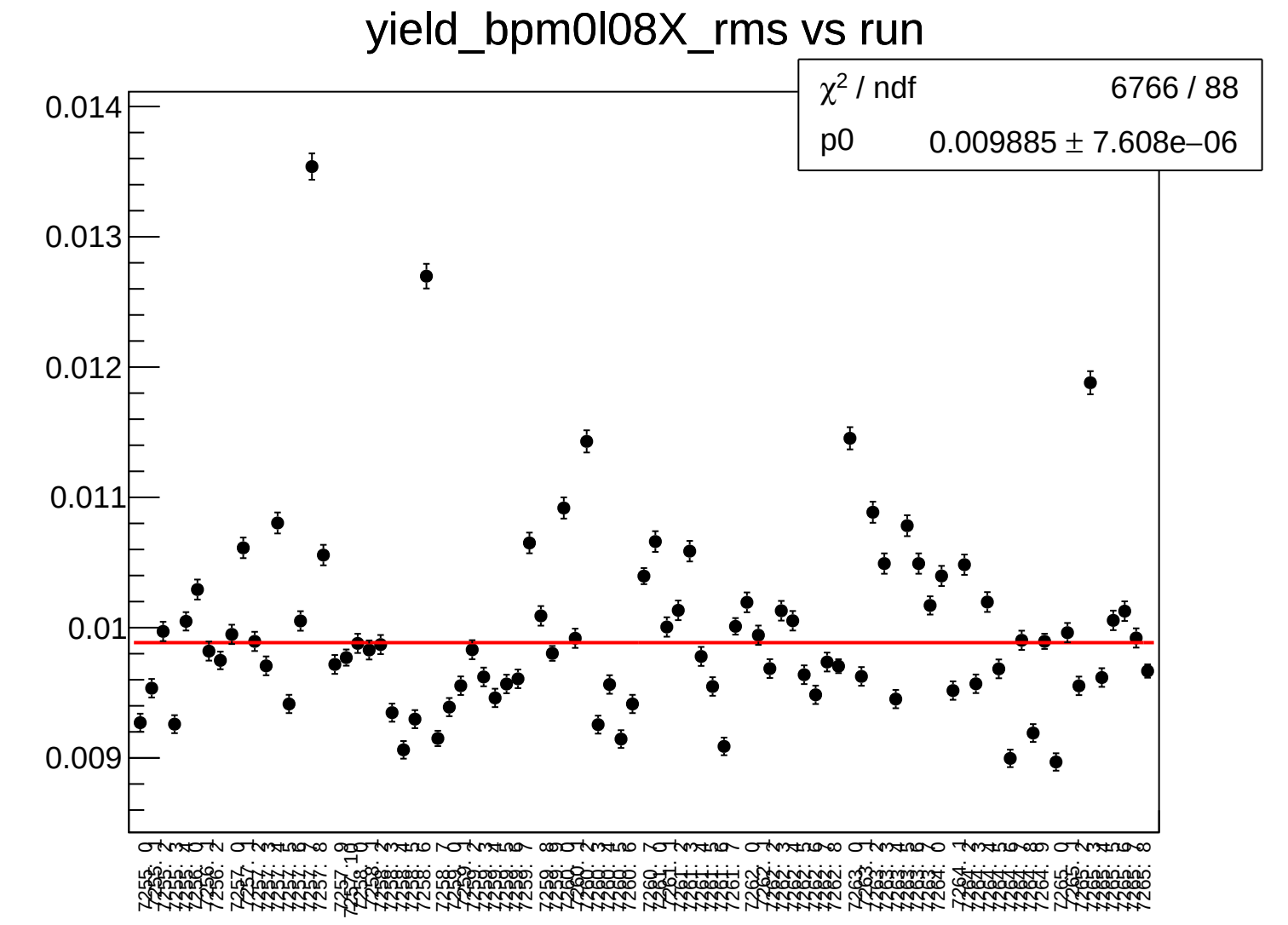

yield_bpm0l07Y_mean vs run
χ² / ndf 1.846e+06 / 88
p0 0.2544 ± 2.101e−06
0.258
0.256
0.254
0.252
0.25
pull
Entries 89
Mean 3037
Std Dev 0
200
100
0
−100
−200
−300

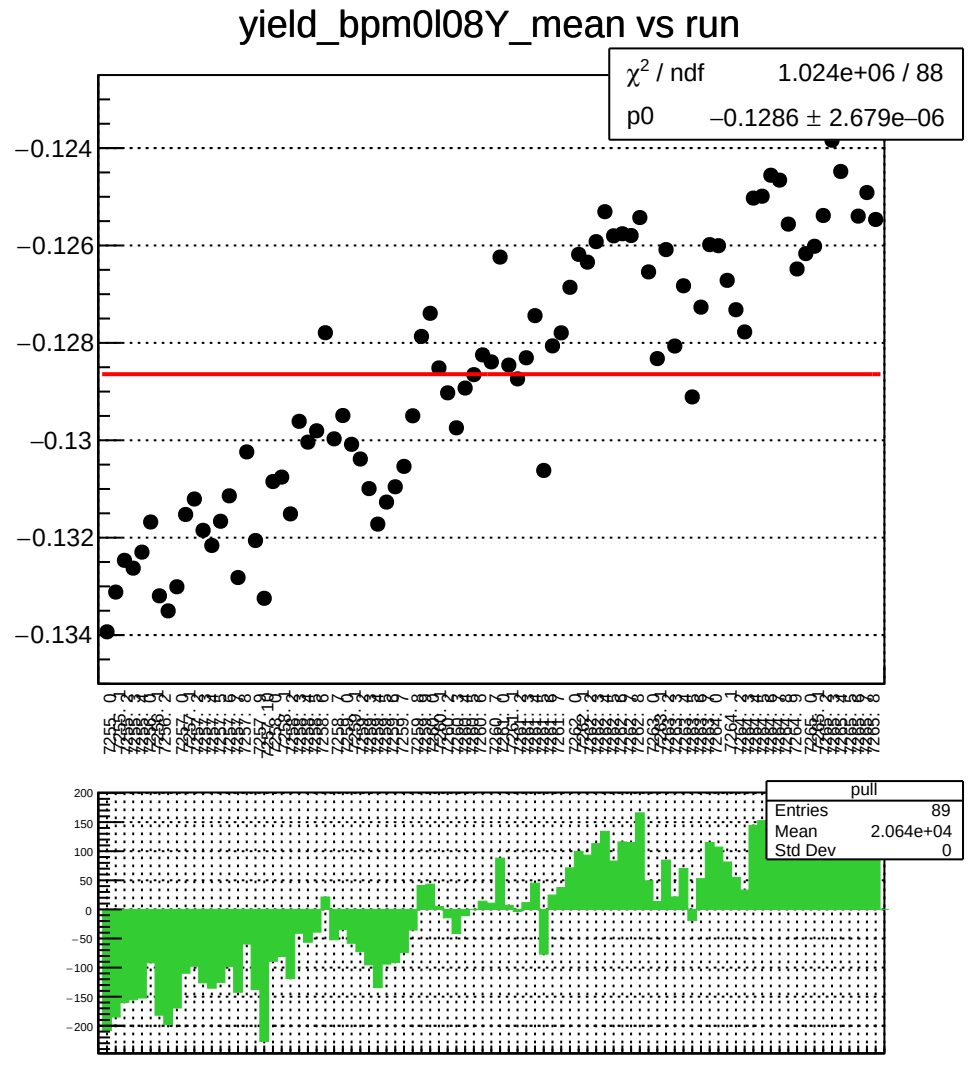

pull1D
Entries 89
Mean 4.072
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

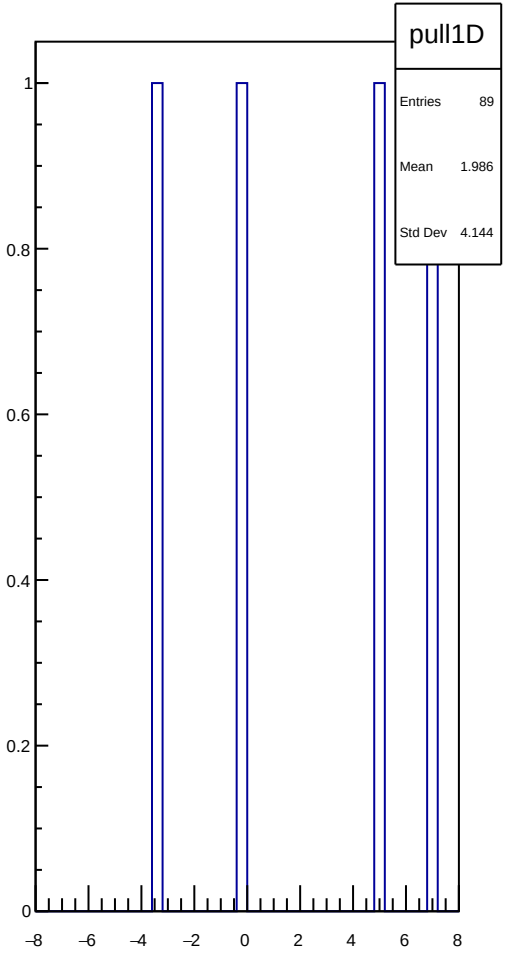

yield_bpm0l07Y_rms vs run
χ² / ndf 3616 / 88
p0 0.001932 ± 1.485e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

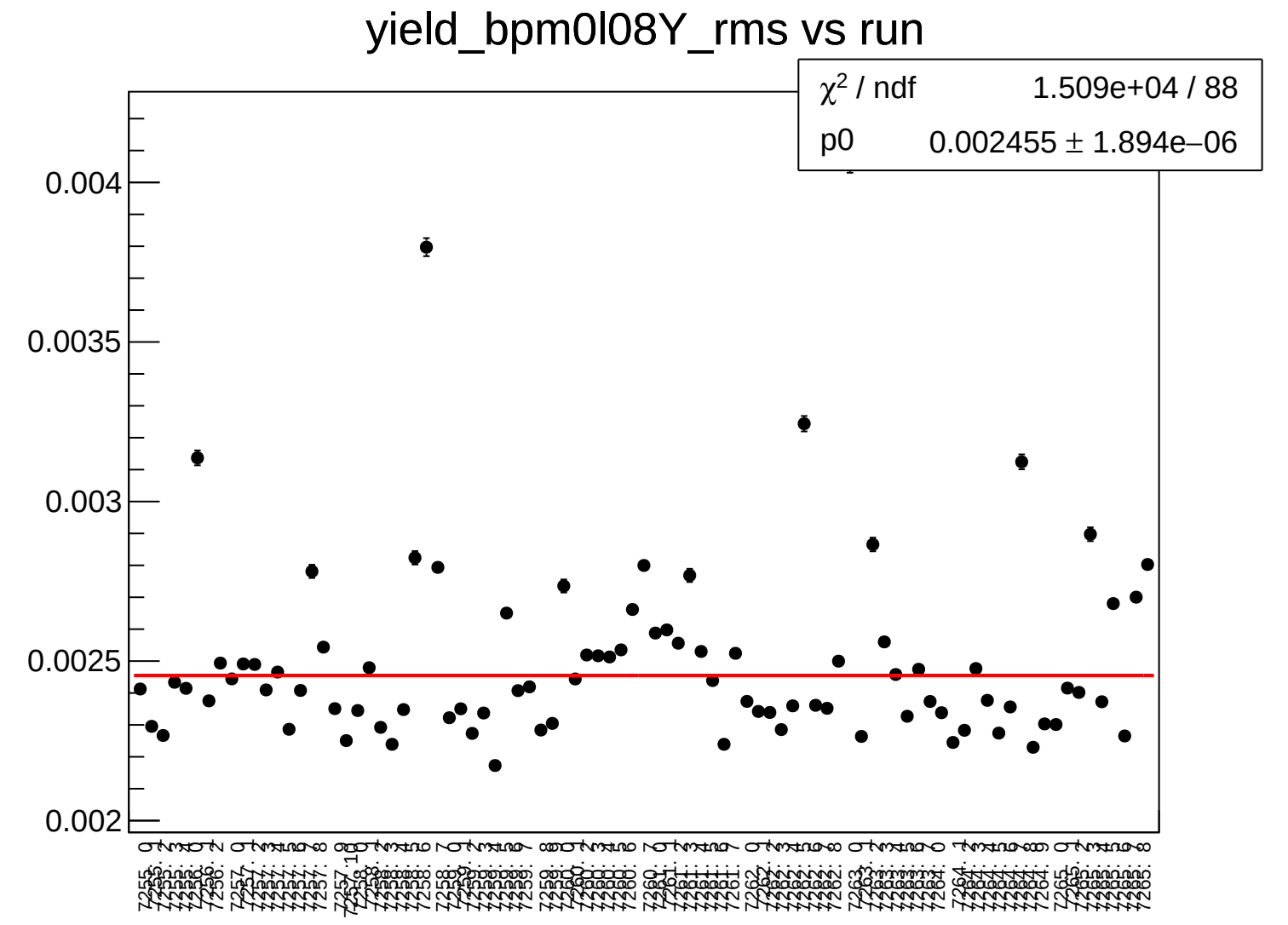

yield_bpm0l08X_mean vs run
χ² / ndf 6.172e+04 / 88
p0 0.2218 ± 1.076e−05
0.228
0.226
0.224
0.222
0.22
0.218
0.216
0.214
pull
Entries 89
Mean 169.5
Std Dev 0
60
40
20
0
−20
−40
−60
−80

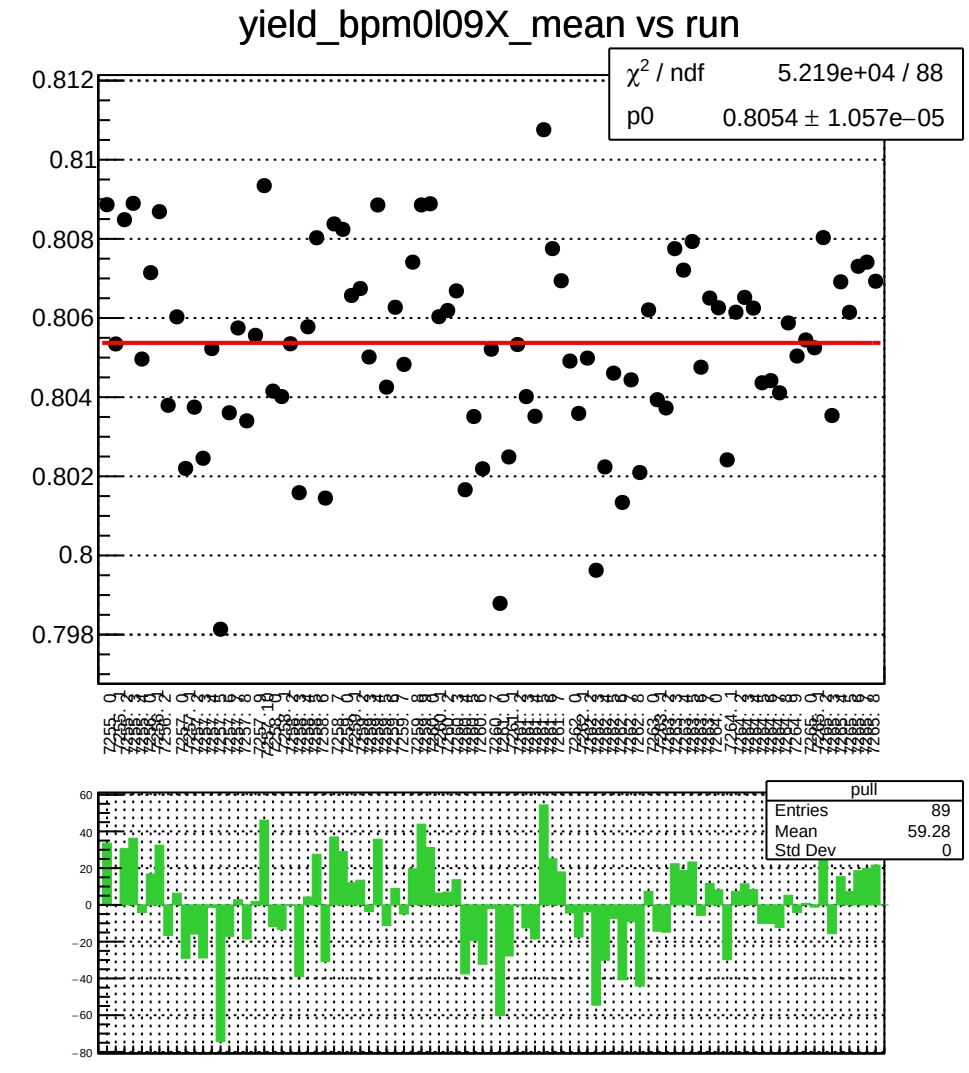

pull1D
Entries 89
Mean 0.5962
Std Dev 3.472
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

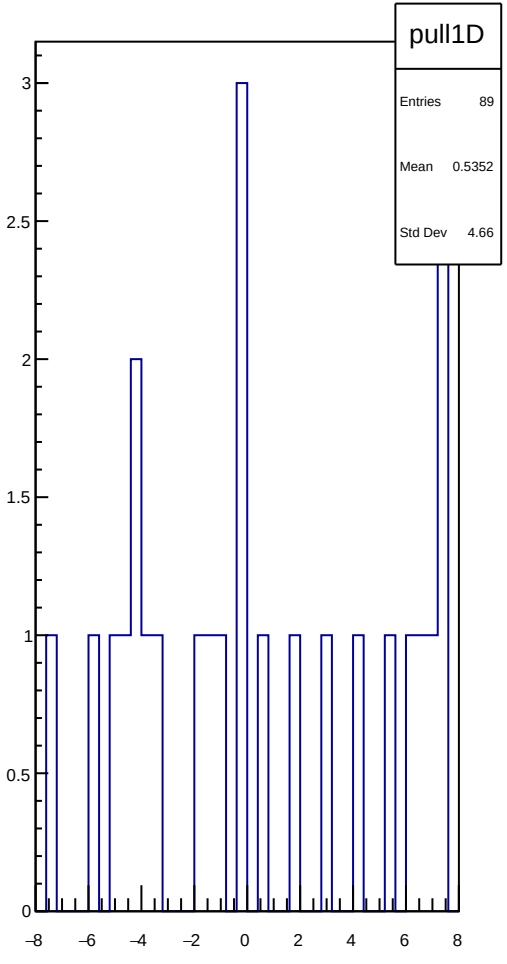

yield_bpm0l08X_rms vs run
χ² / ndf 6766 / 88
p0 0.009885 ± 7.608e−06
0.014
0.013
0.012
0.011
0.01
0.009


yield_bpm0l08Y_mean vs run
χ² / ndf 1.024e+06 / 88
p0 −0.1286 ± 2.679e−06
−0.124
−0.126
−0.128
−0.13
−0.132
−0.134
pull
Entries 89
Mean 2.064e+04
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

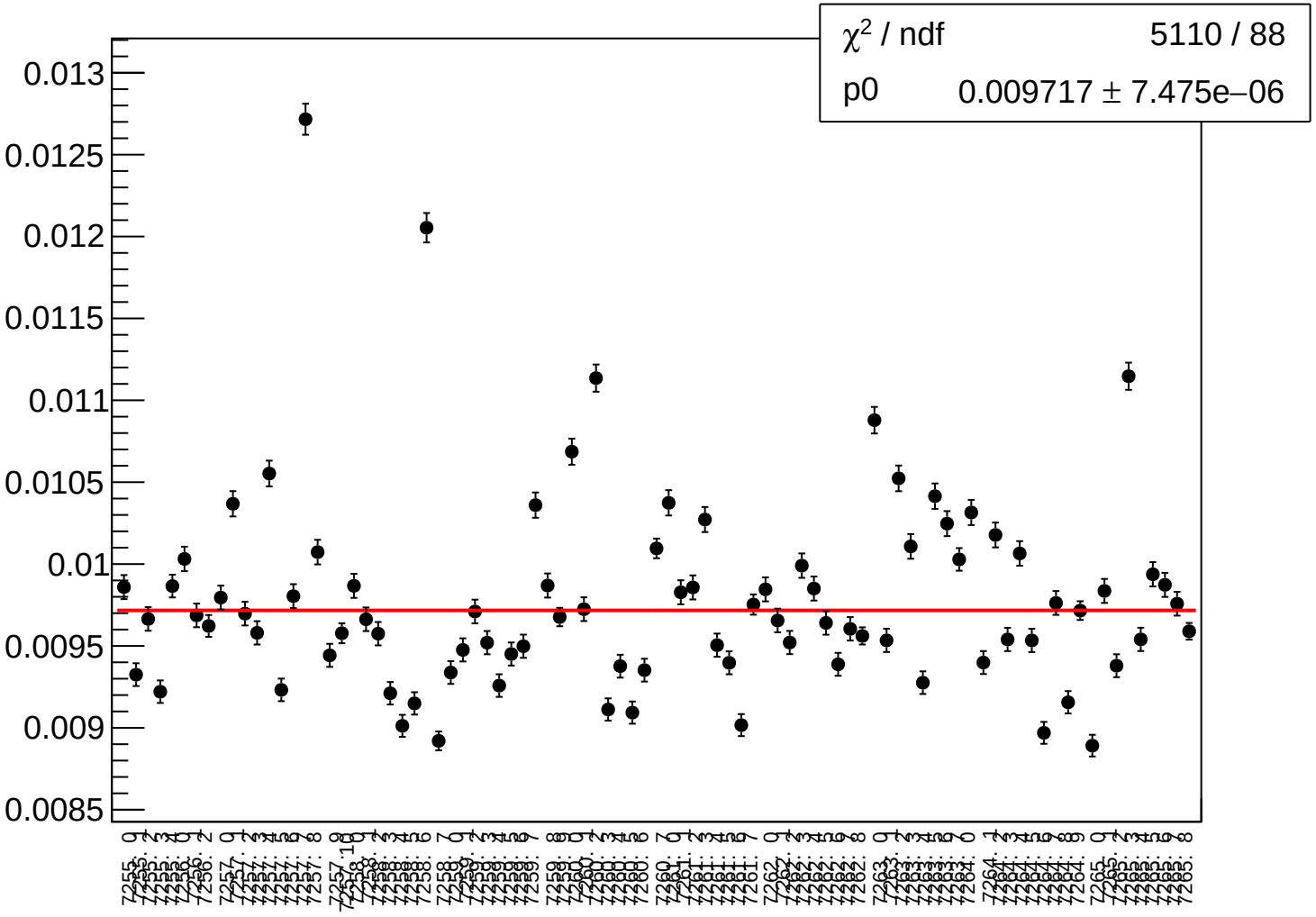

pull1D
Entries 89
Mean 1.986
Std Dev 4.144
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

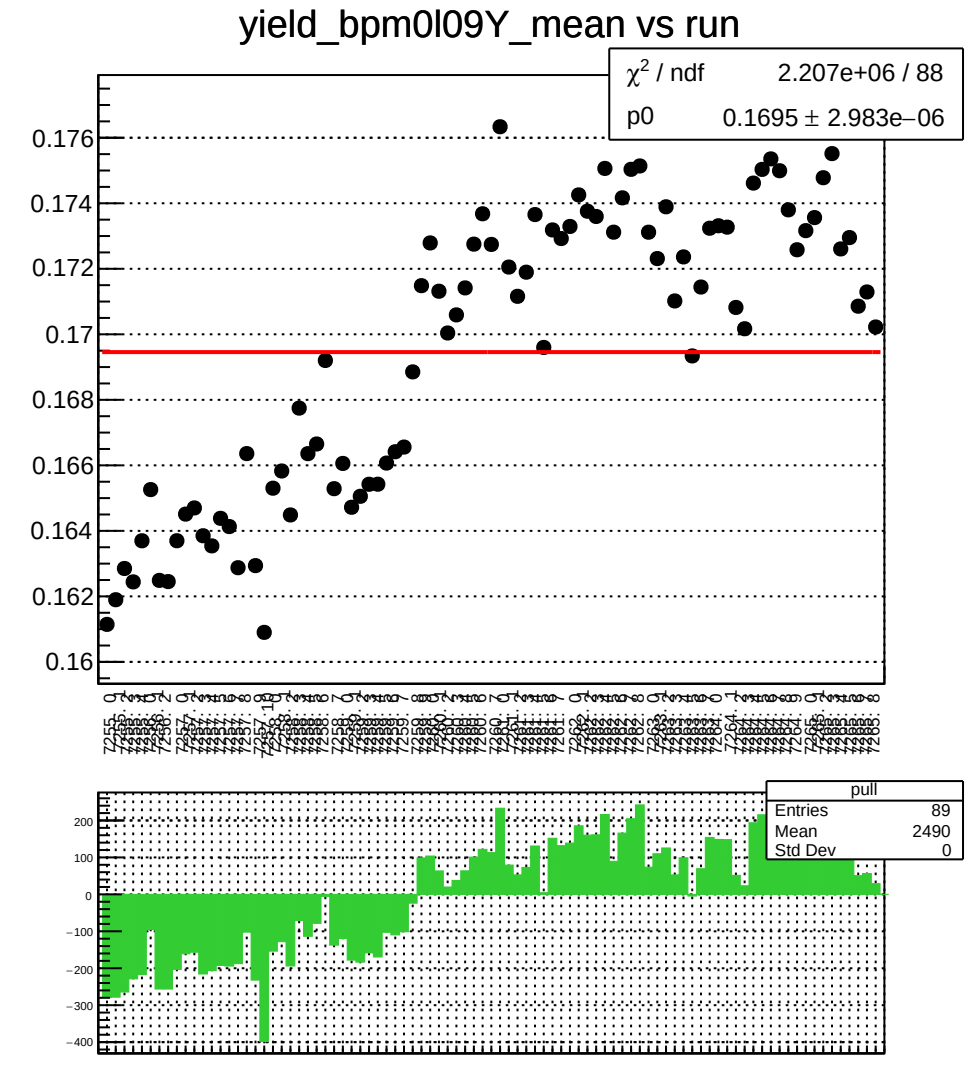

yield_bpm0l08Y_rms vs run
χ² / ndf 1.509e+04 / 88
p0 0.002455 ± 1.894e−06
0.004
0.0035
0.003
0.0025
0.002

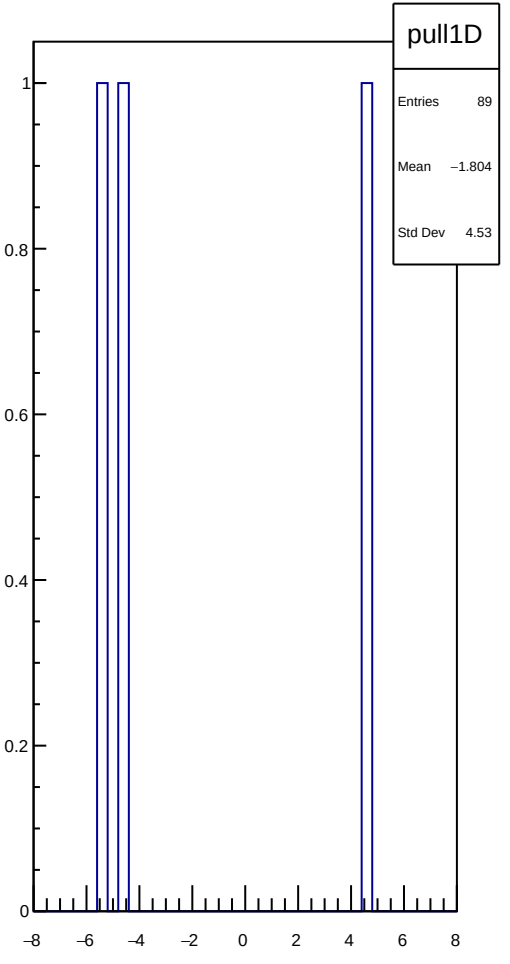

yield_bpm0l09X_mean vs run
χ² / ndf 5.219e+04 / 88
p0 0.8054 ± 1.057e−05
0.812
0.81
0.808
0.806
0.804
0.802
0.8
0.798
pull
Entries 89
Mean 59.28
Std Dev 0
60
40
20
0
−20
−40
−60
−80

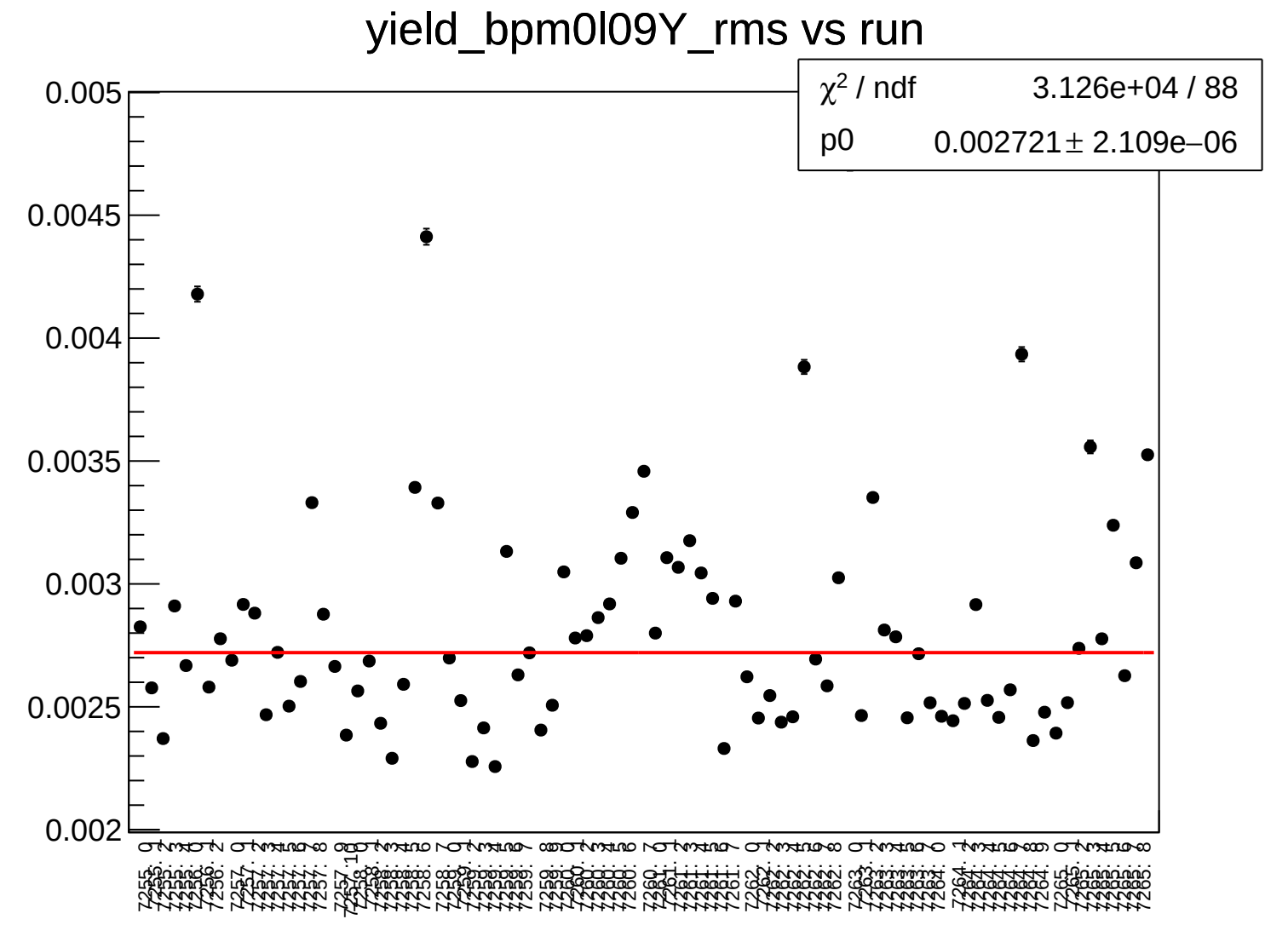

pull1D
Entries 89
Mean 0.5352
Std Dev 4.66
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

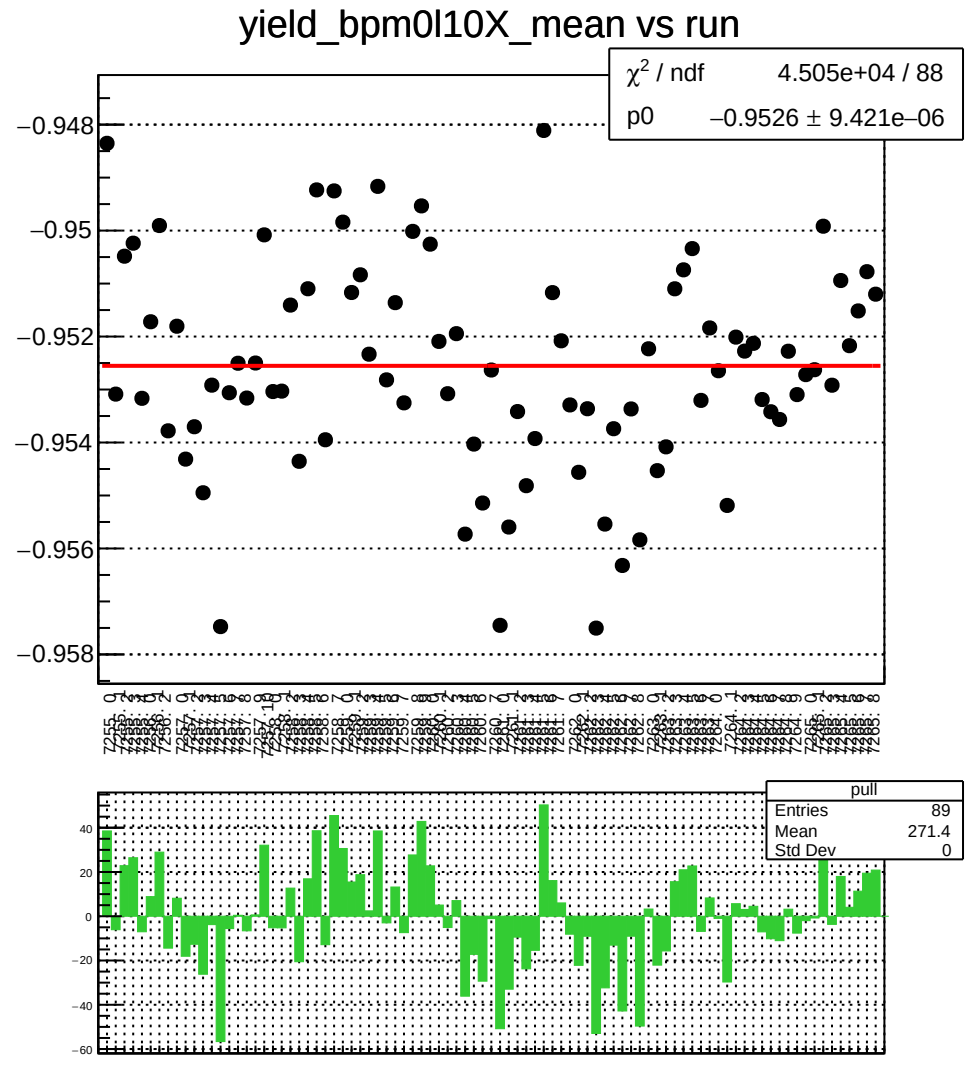
yield_bpm0l09X_rms vs run

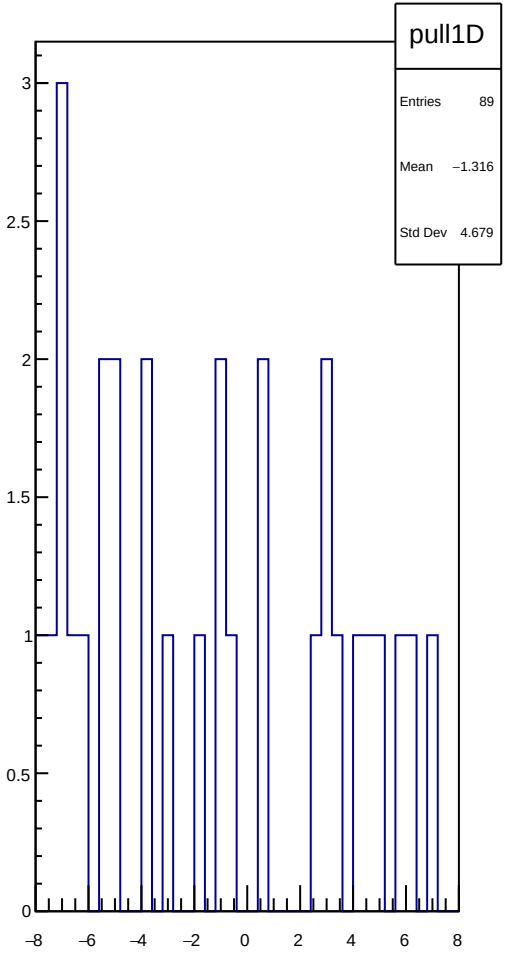


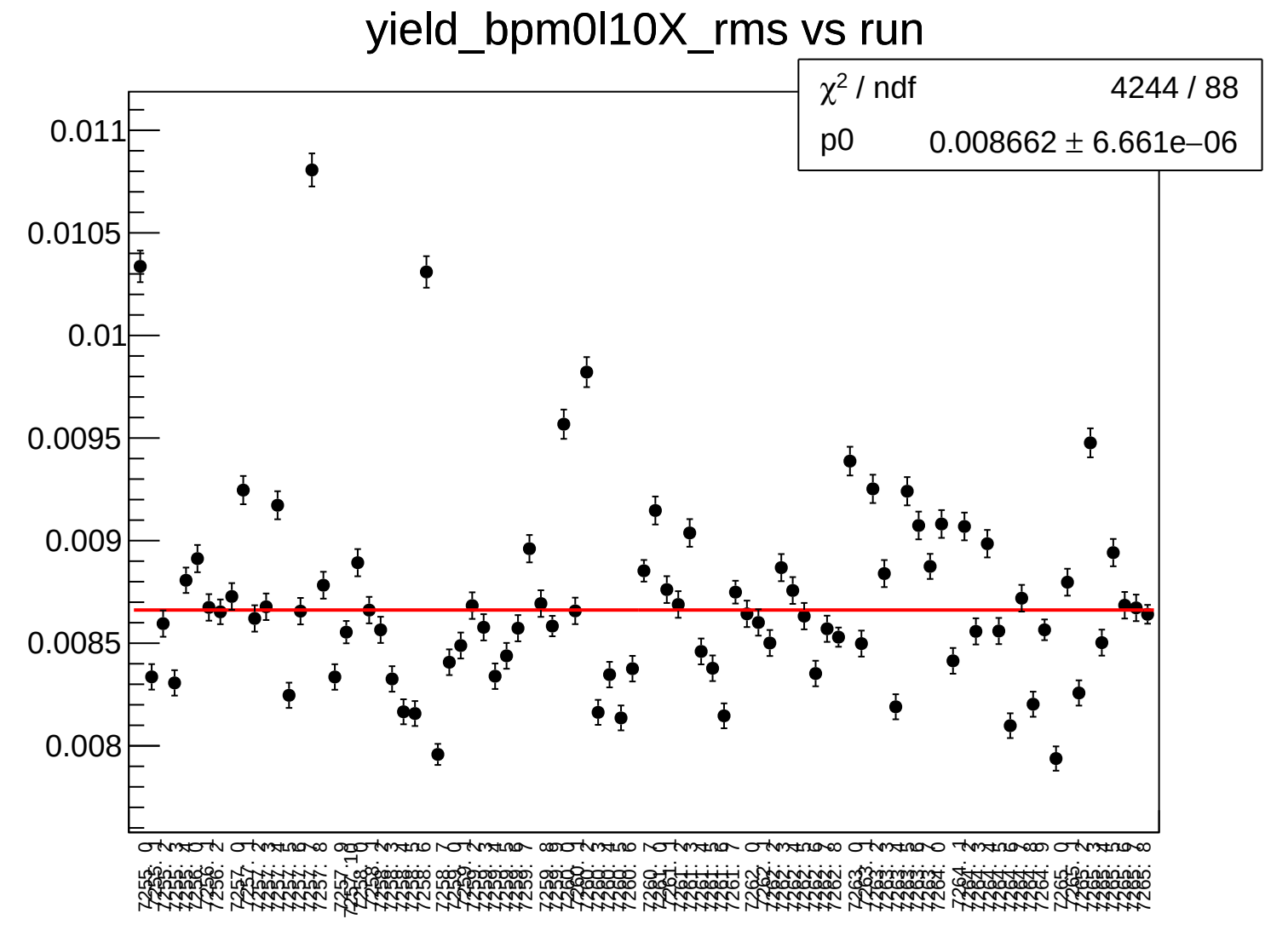

yield_bpm0l09Y_mean vs run
χ² / ndf 2.207e+06 / 88
p0 0.1695 ± 2.983e−06
0.176
0.174
0.172
0.17
0.168
0.166
0.164
0.162
0.16
pull
Entries 89
Mean 2490
Std Dev 0
200
100
0
−100
−200
−300
−400

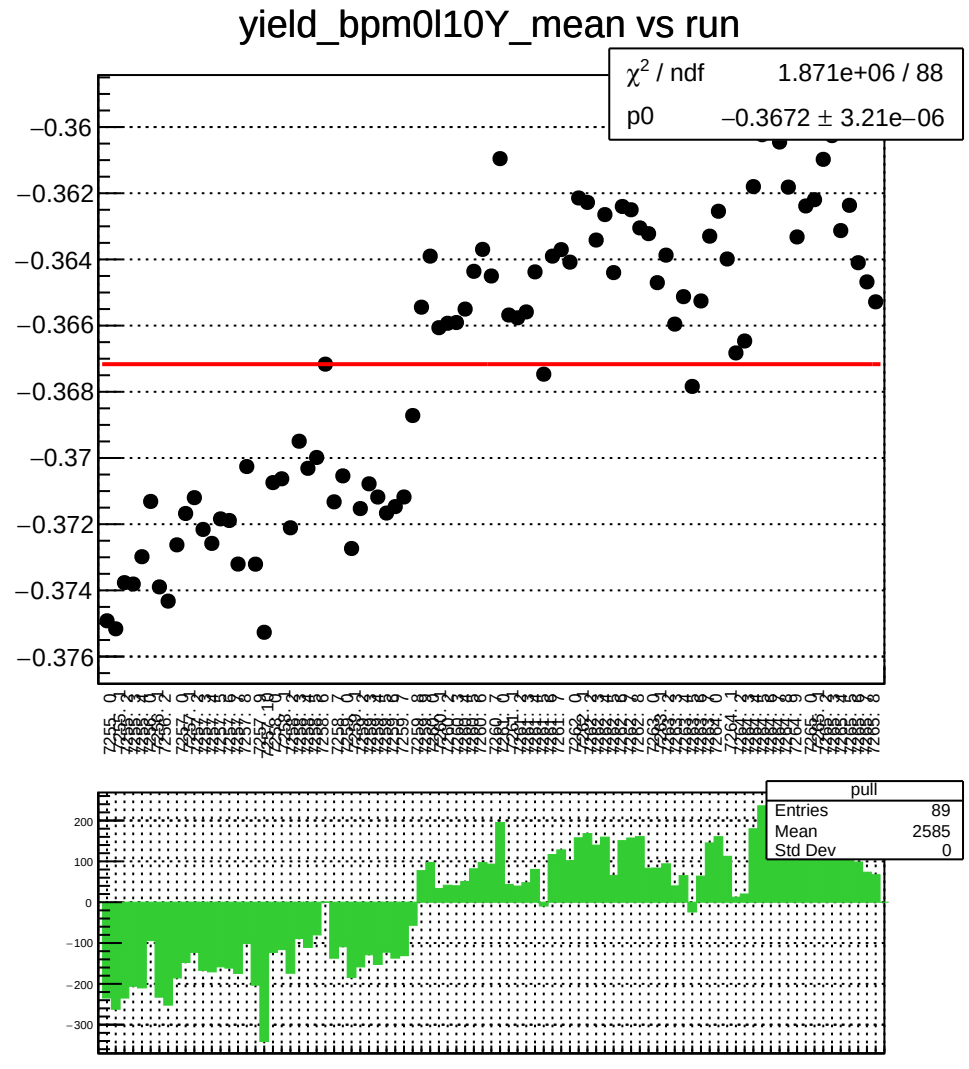

pull1D
Entries 89
Mean −1.804
Std Dev 4.53
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

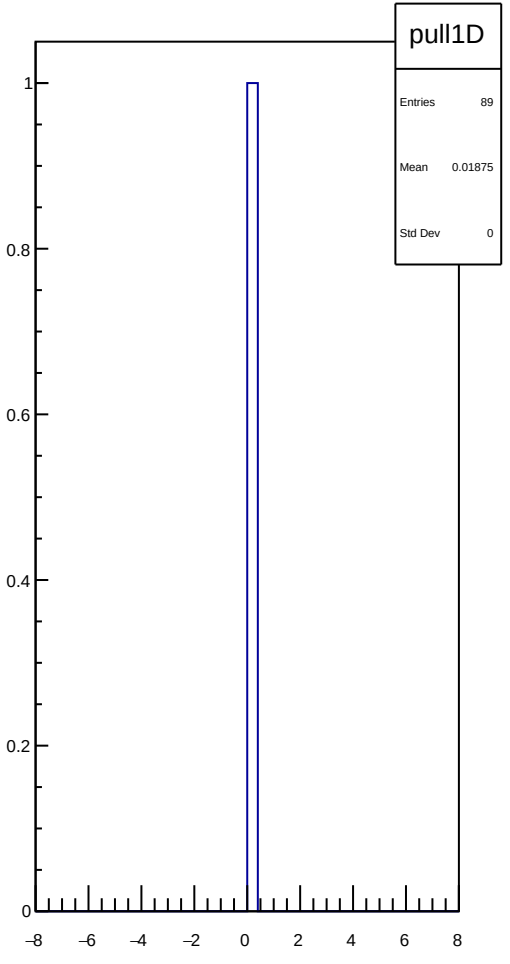

yield_bpm0l09Y_rms vs run
χ² / ndf 3.126e+04 / 88
p0 0.002721 ± 2.109e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

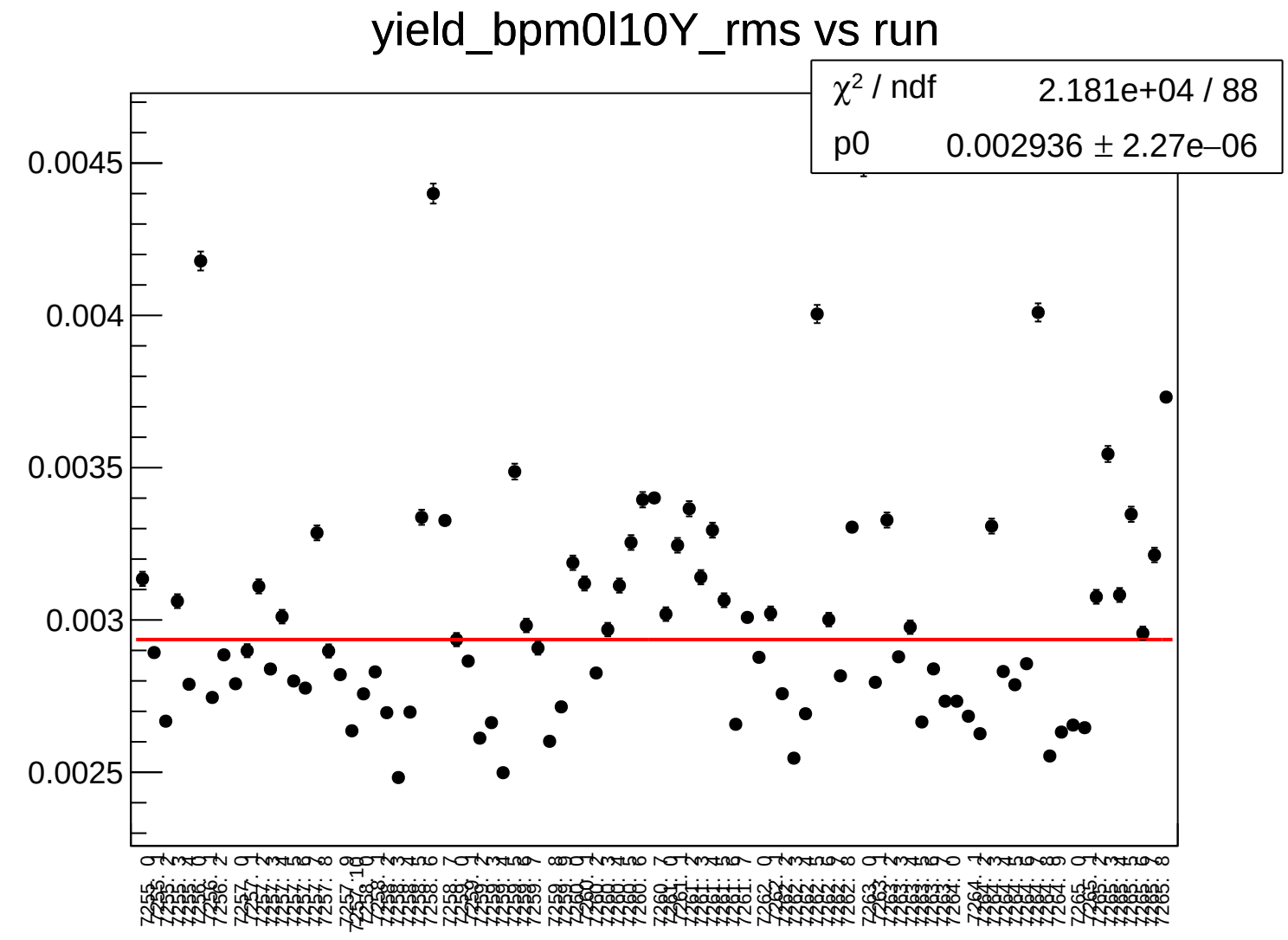

yield_bpm0l10X_mean vs run
χ² / ndf 4.505e+04 / 88
p0 −0.9526 ± 9.421e−06
−0.948
−0.95
−0.952
−0.954
−0.956
−0.958
pull
Entries 89
Mean 271.4
Std Dev 0
40
20
0
−20
−40
−60

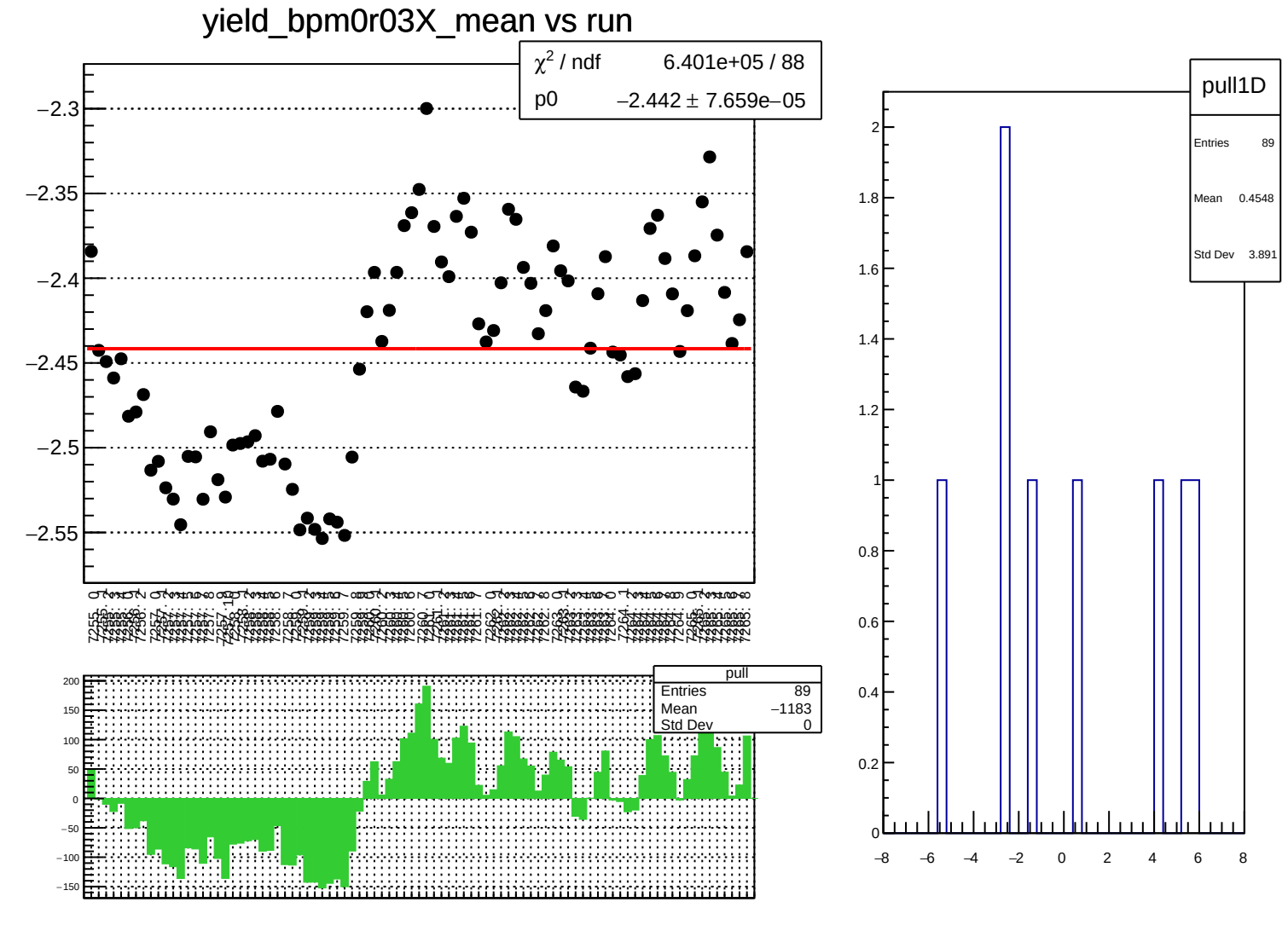

pull1D
Entries 89
Mean −1.316
Std Dev 4.679
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

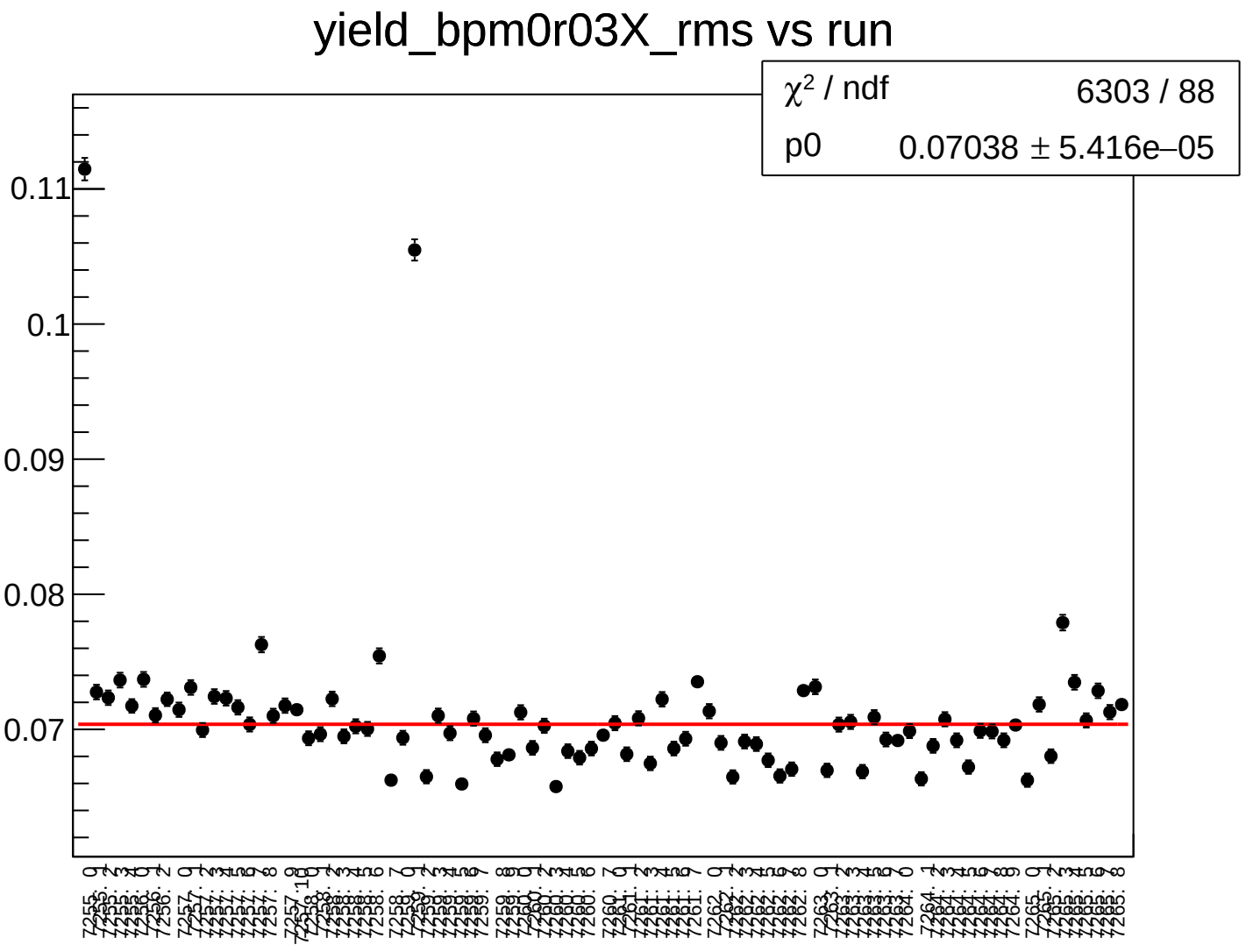

yield_bpm0l10X_rms vs run
χ² / ndf 4244 / 88
p0 0.008662 ± 6.661e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008

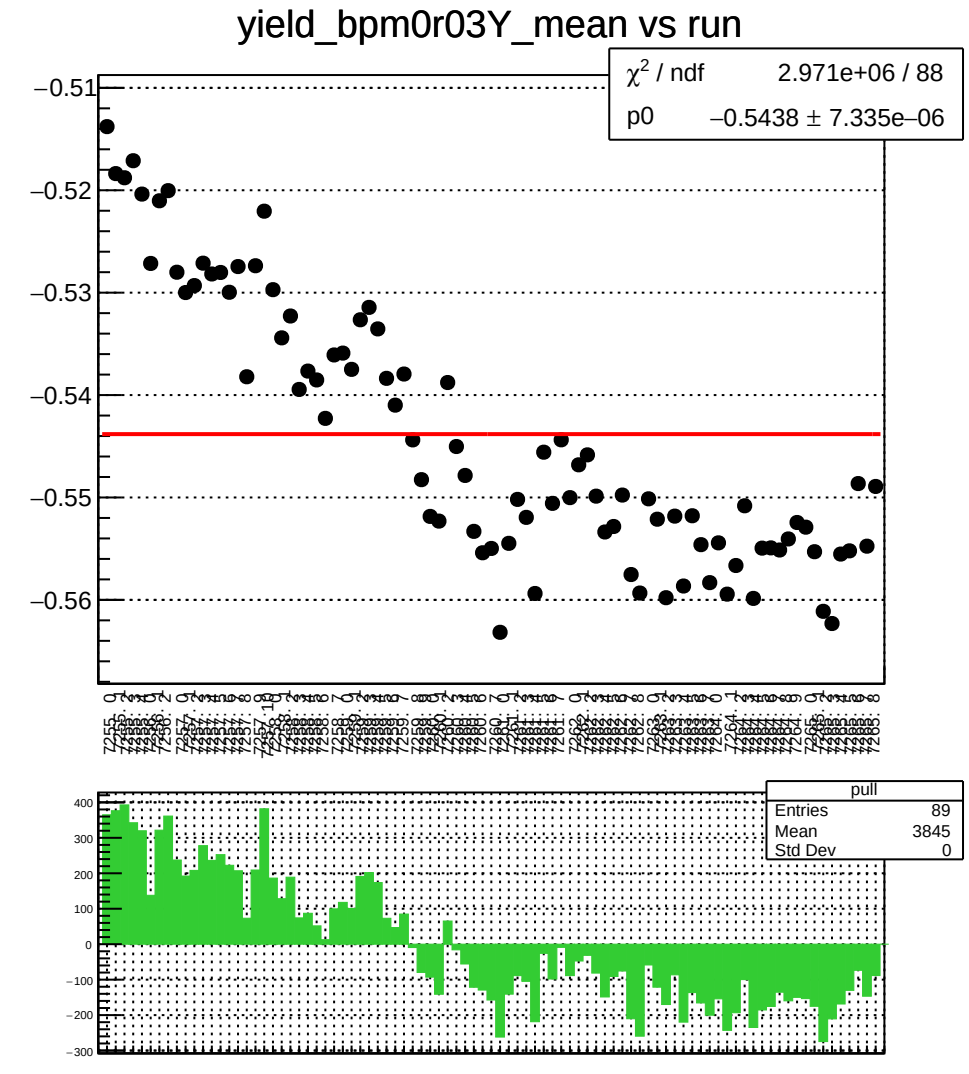

yield_bpm0l10Y_mean vs run
χ² / ndf 1.871e+06 / 88
p0 −0.3672 ± 3.21e−06
−0.36
−0.362
−0.364
−0.366
−0.368
−0.37
−0.372
−0.374
−0.376
pull
Entries 89
Mean 2585
Std Dev 0
200
100
0
−100
−200
−300

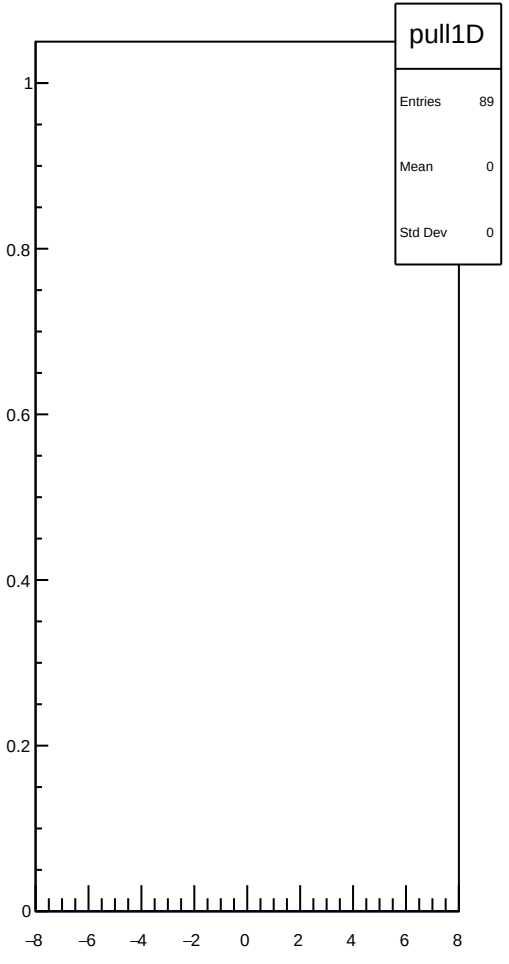

pull1D
Entries 89
Mean 0.01875
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

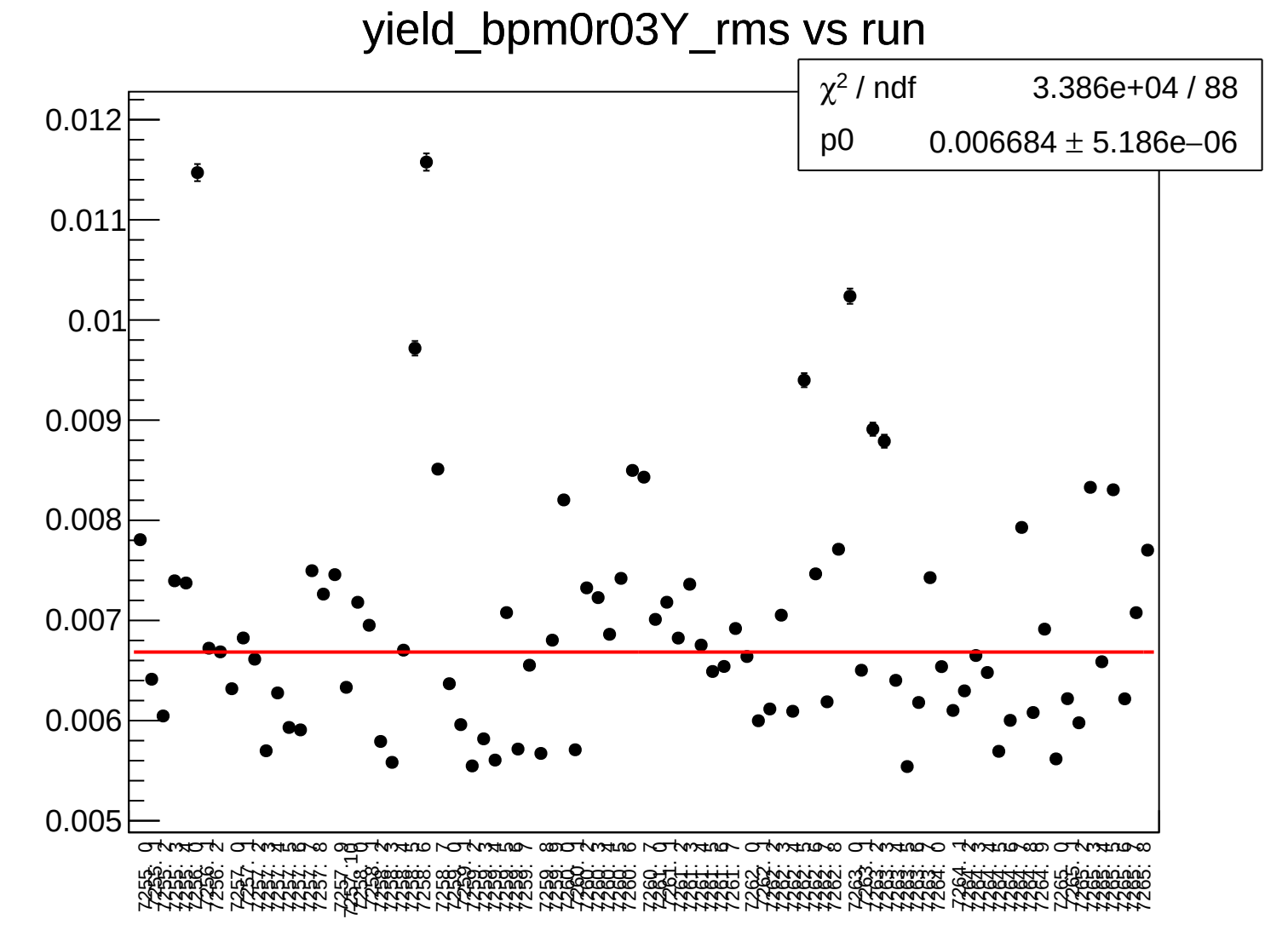

yield_bpm0l10Y_rms vs run
χ² / ndf 2.181e+04 / 88
p0 0.002936 ± 2.27e−06
0.0045
0.004
0.0035
0.003
0.0025

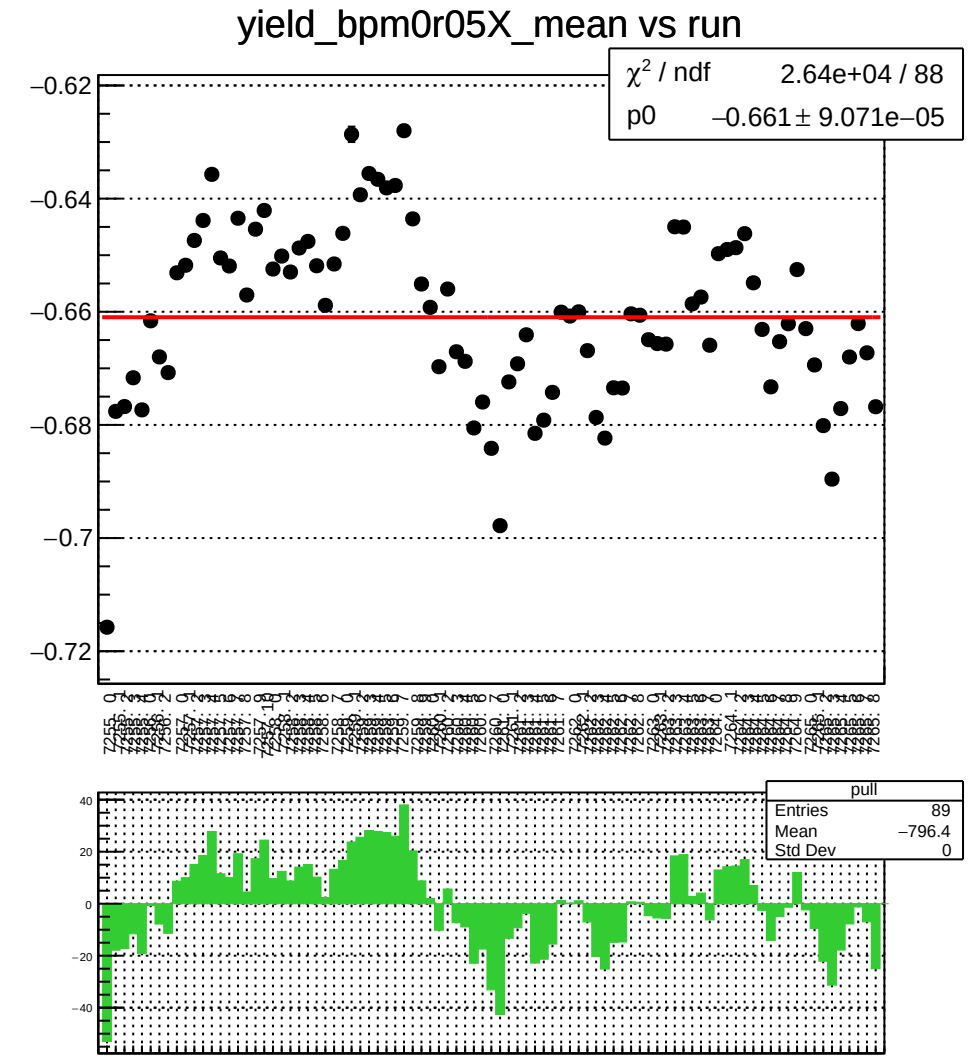

yield_bpm0r03X_mean vs run
χ² / ndf 6.401e+05 / 88
p0 −2.442 ± 7.659e−05
−2.3
−2.35
−2.4
−2.45
−2.5
−2.55
pull
Entries 89
Mean −1183
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 89
Mean 0.4548
Std Dev 3.891
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

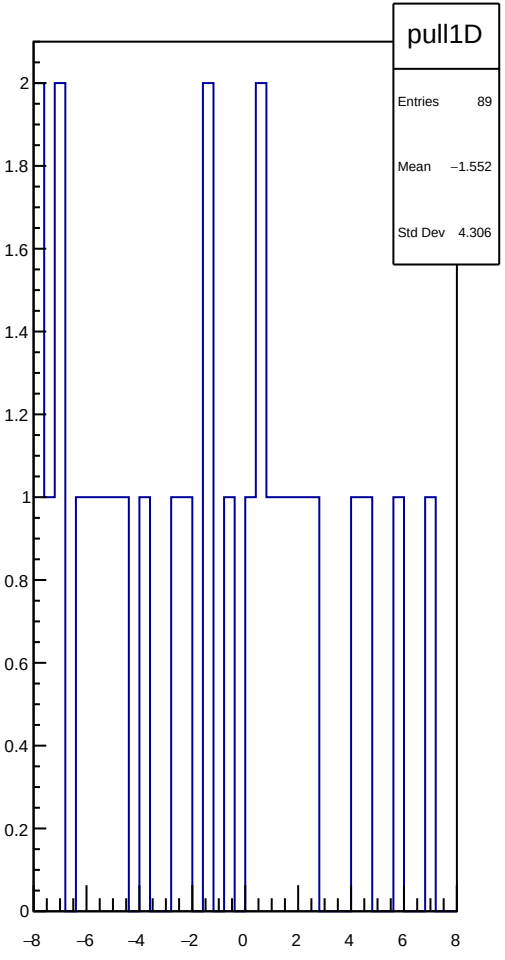

yield_bpm0r03X_rms vs run
χ² / ndf 6303 / 88
p0 0.07038 ± 5.416e–05
0.11
0.1
0.09
0.08
0.07

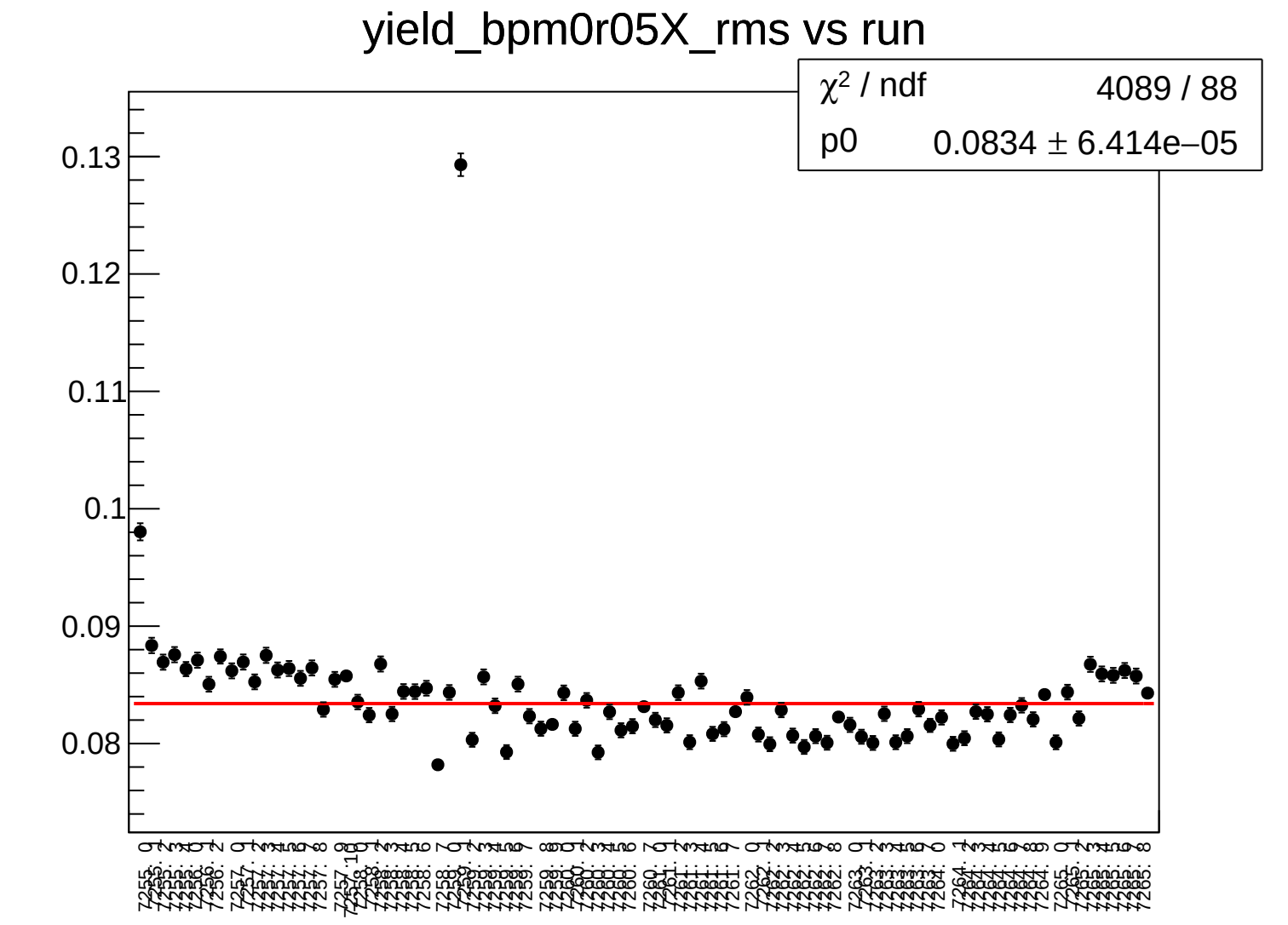

yield_bpm0r03Y_mean vs run
χ² / ndf 2.971e+06 / 88
p0 −0.5438 ± 7.335e−06
−0.51
−0.52
−0.53
−0.54
−0.55
−0.56
pull
Entries 89
Mean 3845
Std Dev 0
400
300
200
100
0
−100
−200
−300

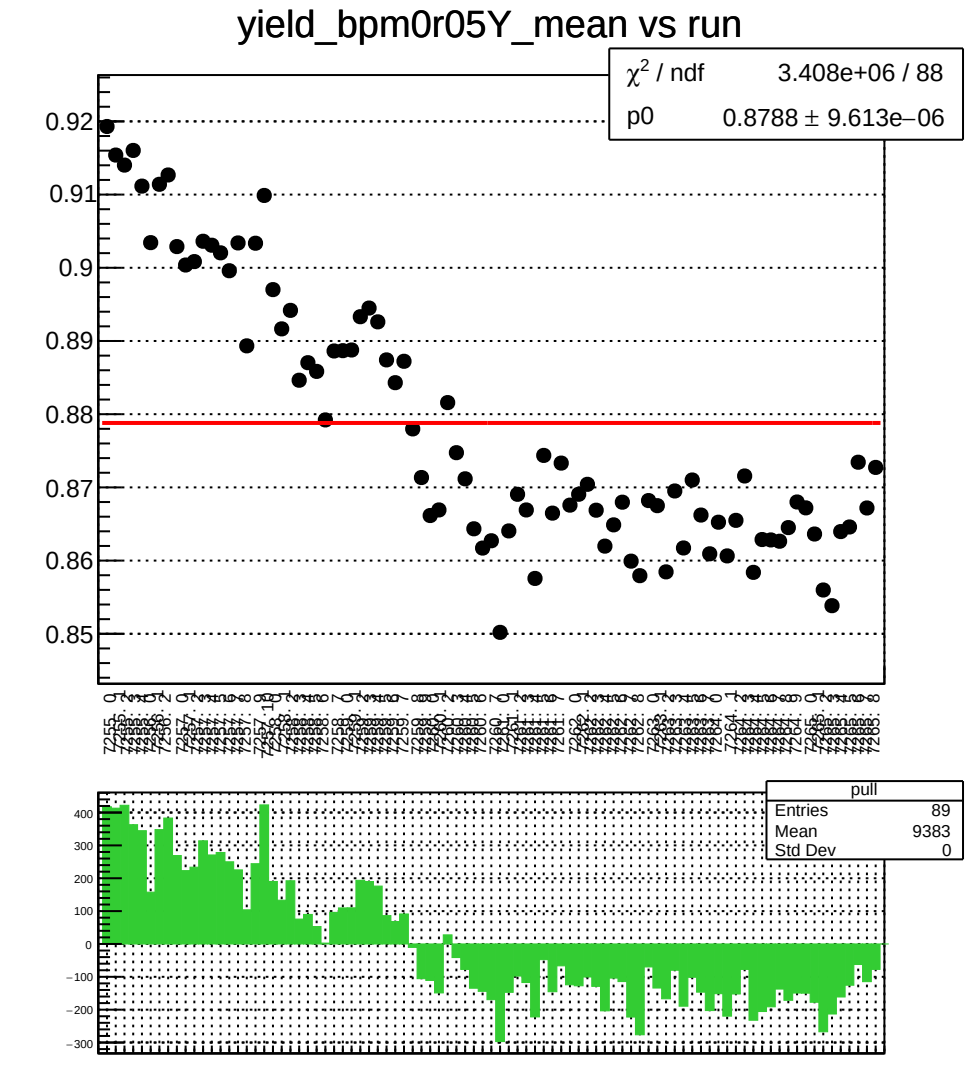

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

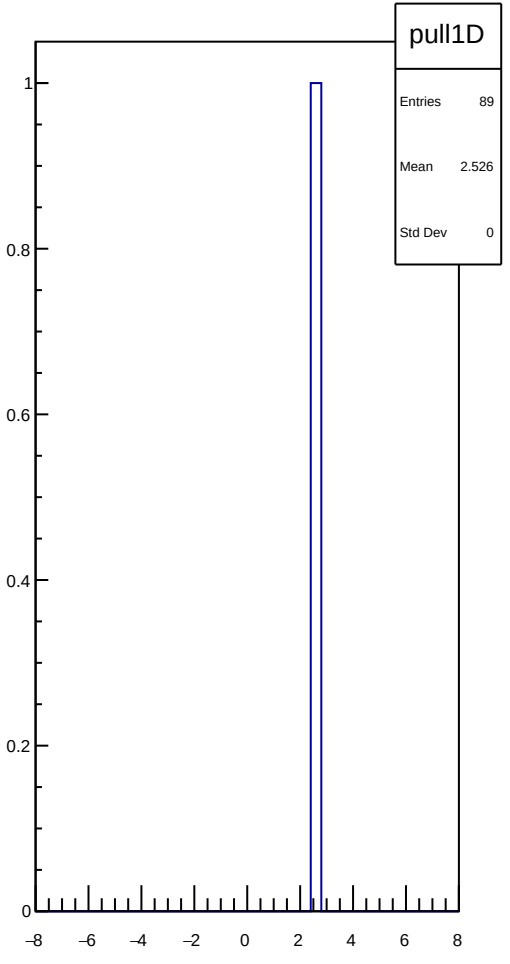

yield_bpm0r03Y_rms vs run
χ² / ndf 3.386e+04 / 88
p0 0.006684 ± 5.186e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

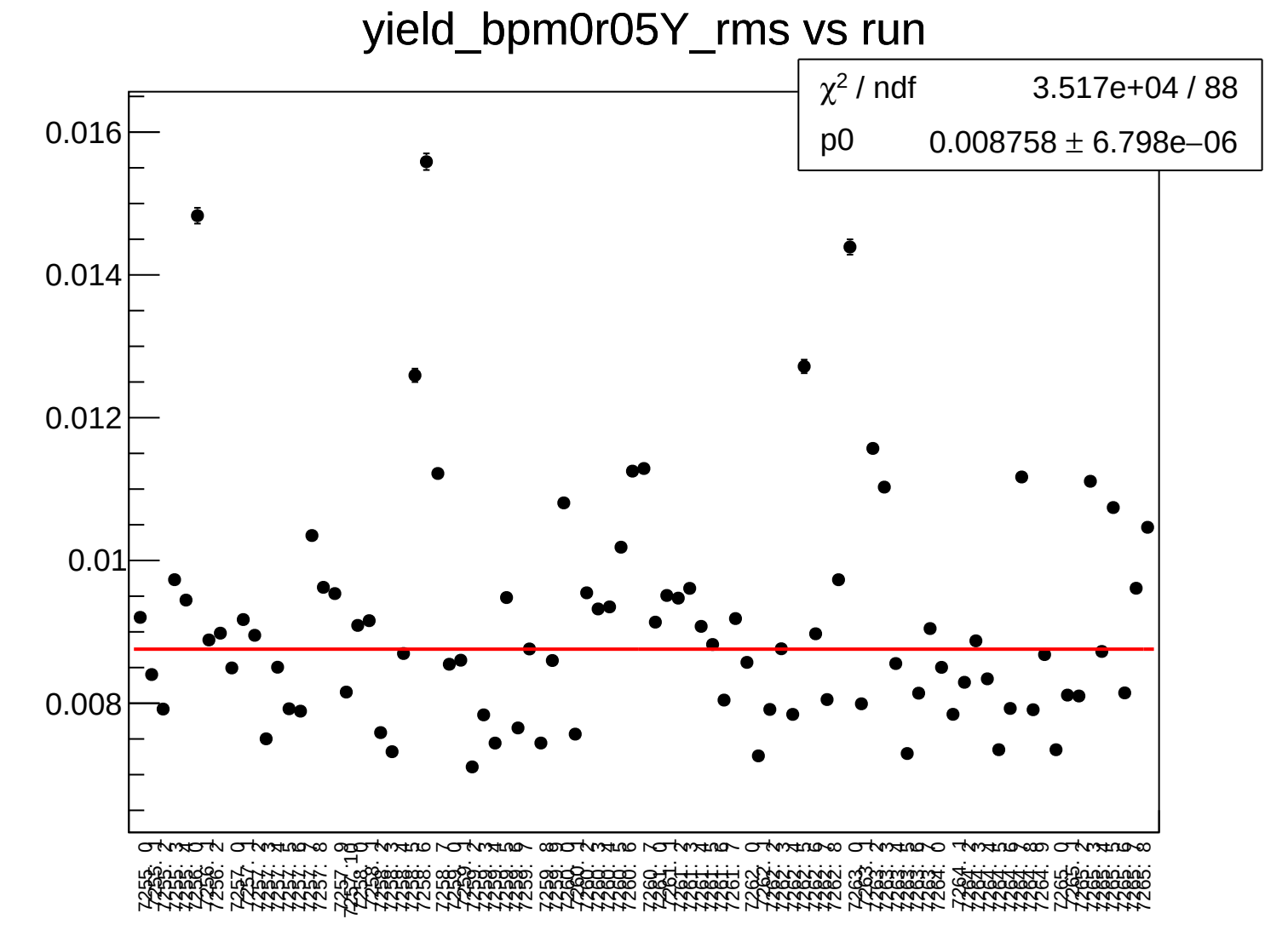

yield_bpm0r05X_mean vs run
χ² / ndf 2.64e+04 / 88
p0 −0.661 ± 9.071e−05
−0.62
−0.64
−0.66
−0.68
−0.7
−0.72
pull
Entries 89
Mean −796.4
Std Dev 0
40
20
0
−20
−40

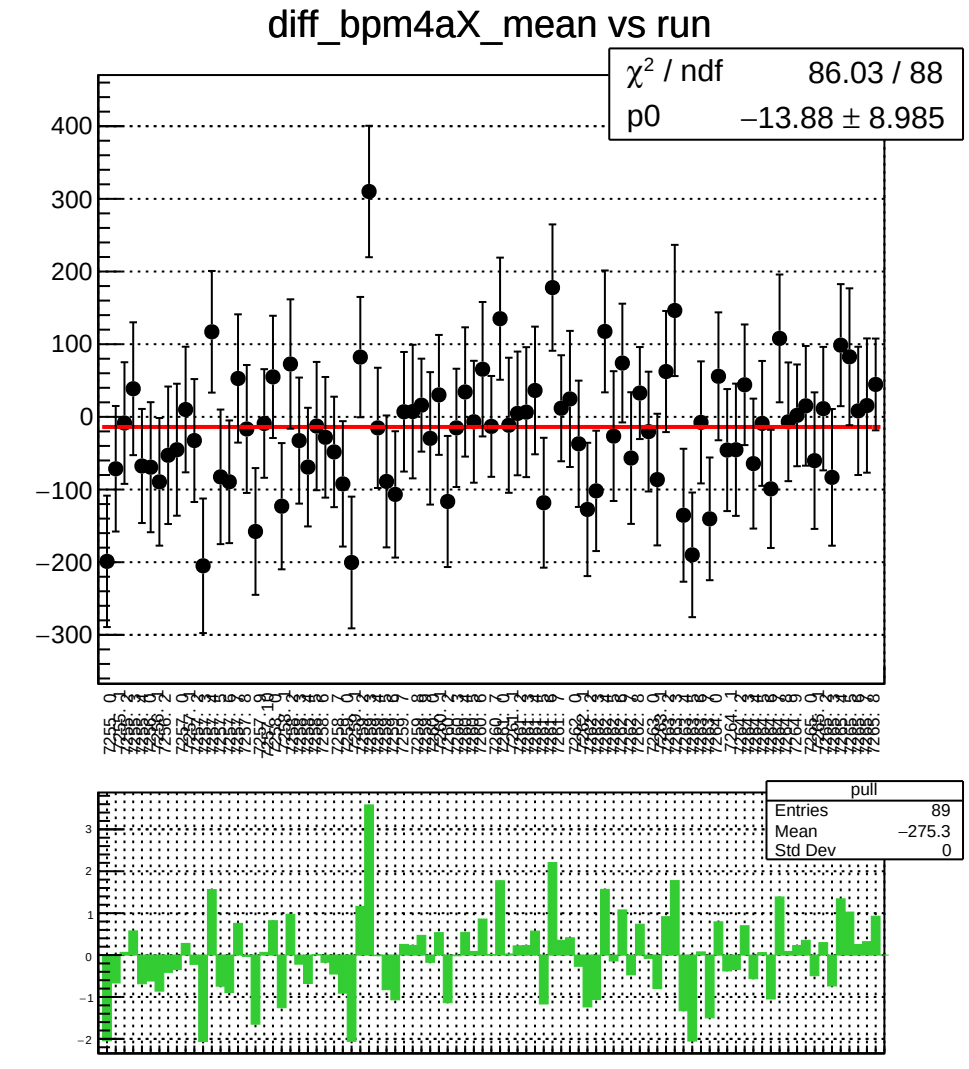

pull1D
Entries 89
Mean −1.552
Std Dev 4.306
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

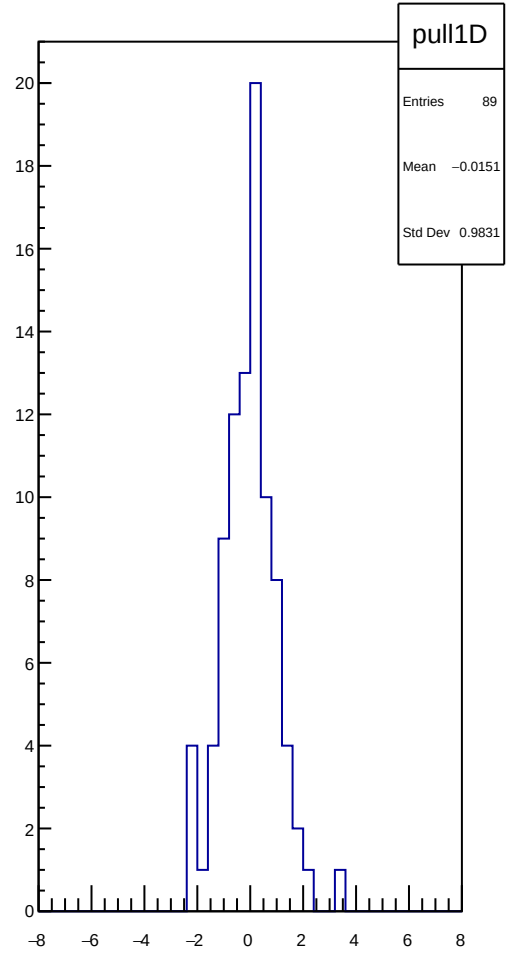

yield_bpm0r05X_rms vs run
χ² / ndf 4089 / 88
p0 0.0834 ± 6.414e−05
0.13
0.12
0.11
0.1
0.09
0.08

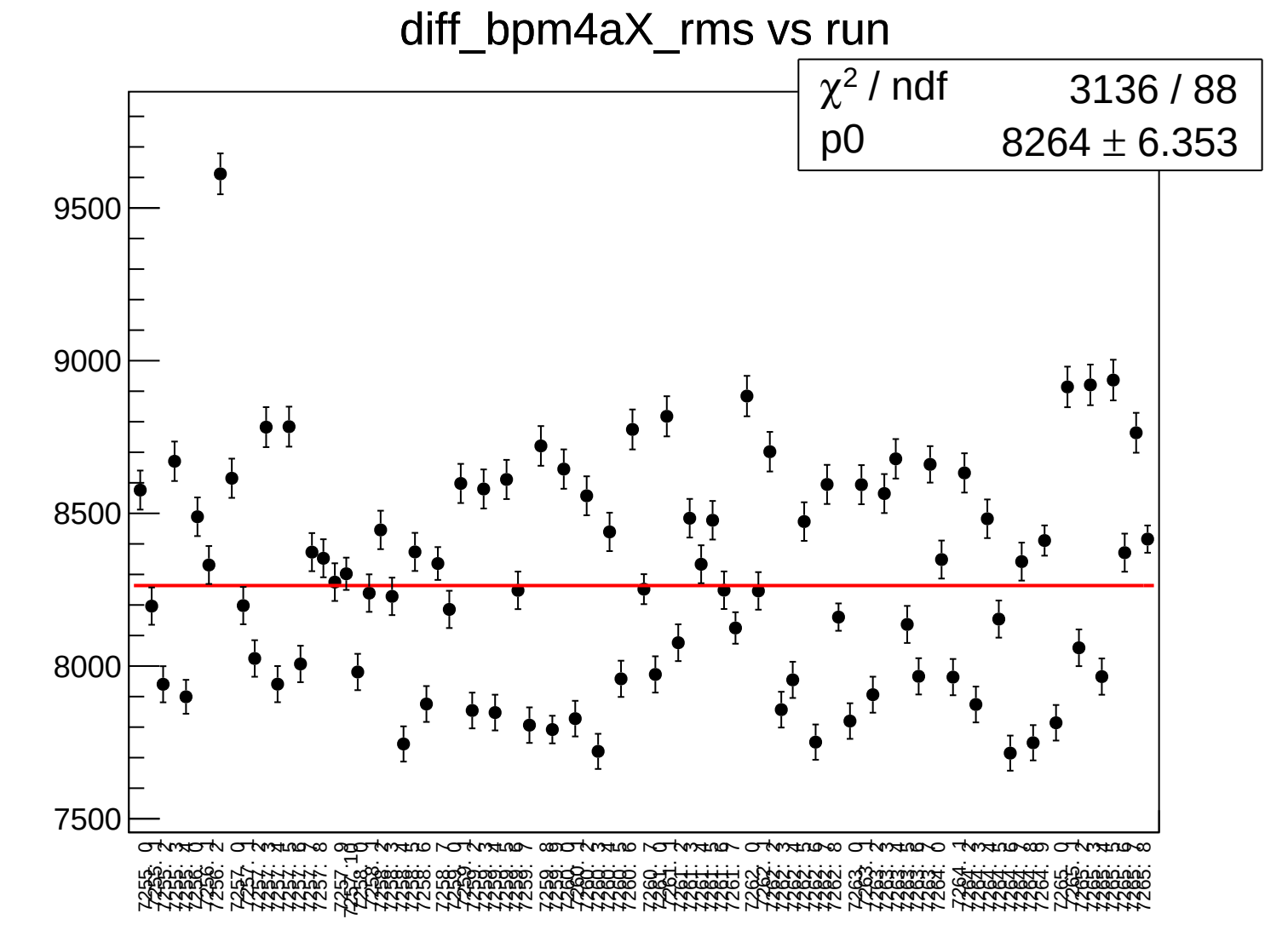

yield_bpm0r05Y_mean vs run
χ² / ndf 3.408e+06 / 88
p0 0.8788 ± 9.613e−06
0.92
0.91
0.9
0.89
0.88
0.87
0.86
0.85
pull
Entries 89
Mean 9383
Std Dev 0
400
300
200
100
0
−100
−200
−300

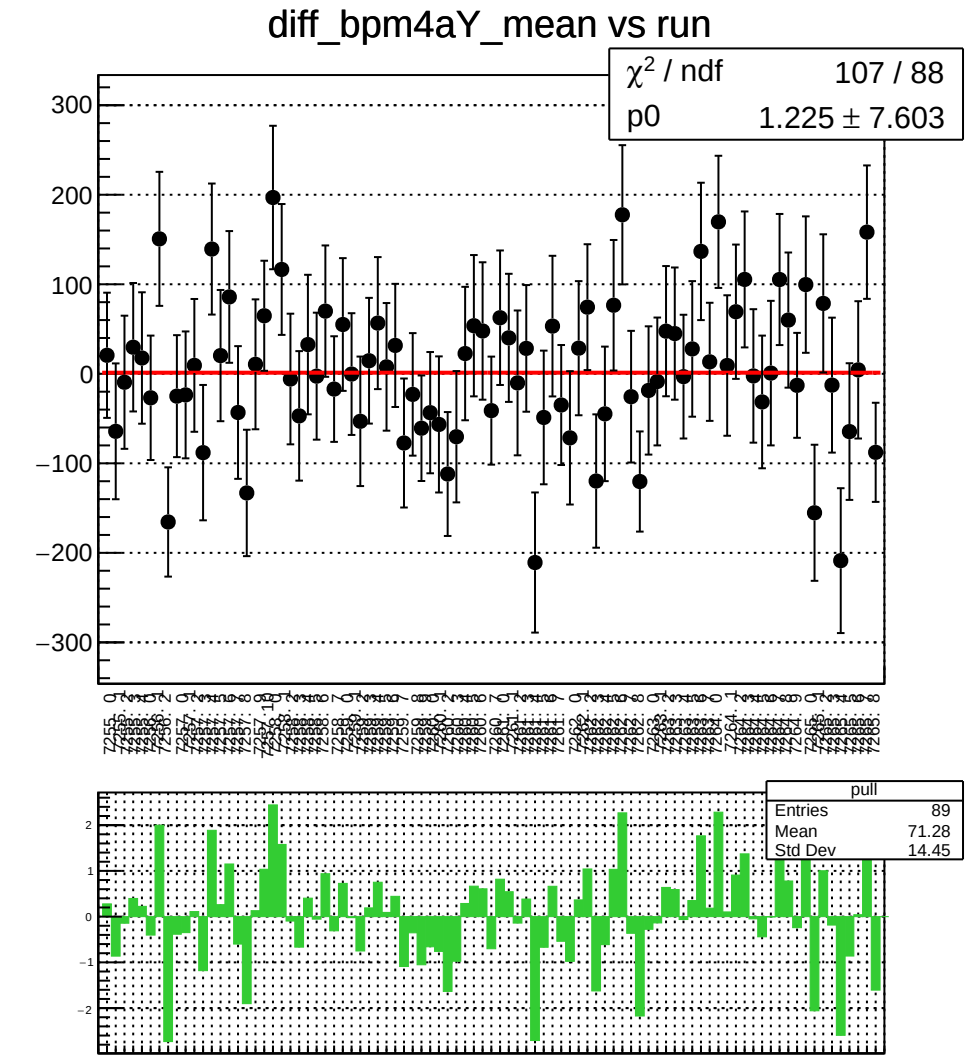

pull1D
Entries 89
Mean 2.526
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

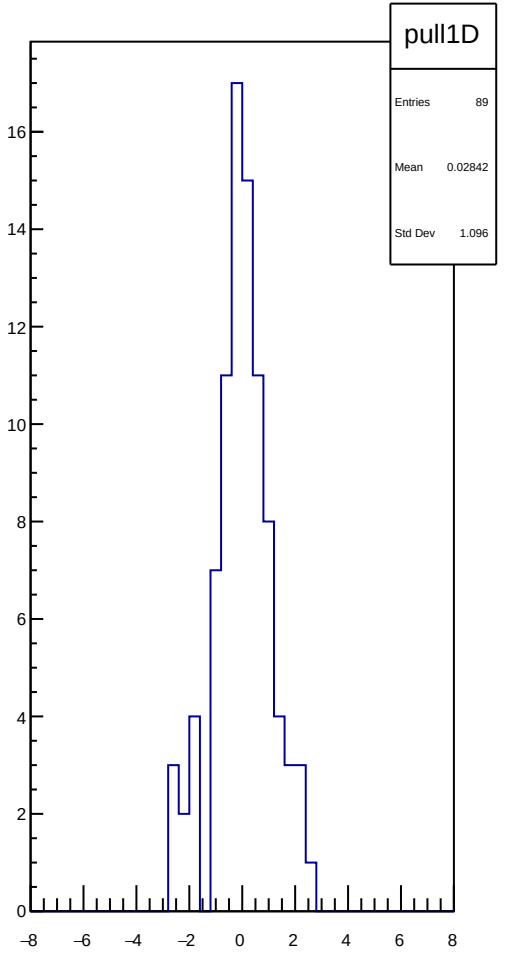

yield_bpm0r05Y_rms vs run
χ^2 / ndf 3.517e+04 / 88
p0 0.008758 ± 6.798e−06
0.016
0.014
0.012
0.01
0.008

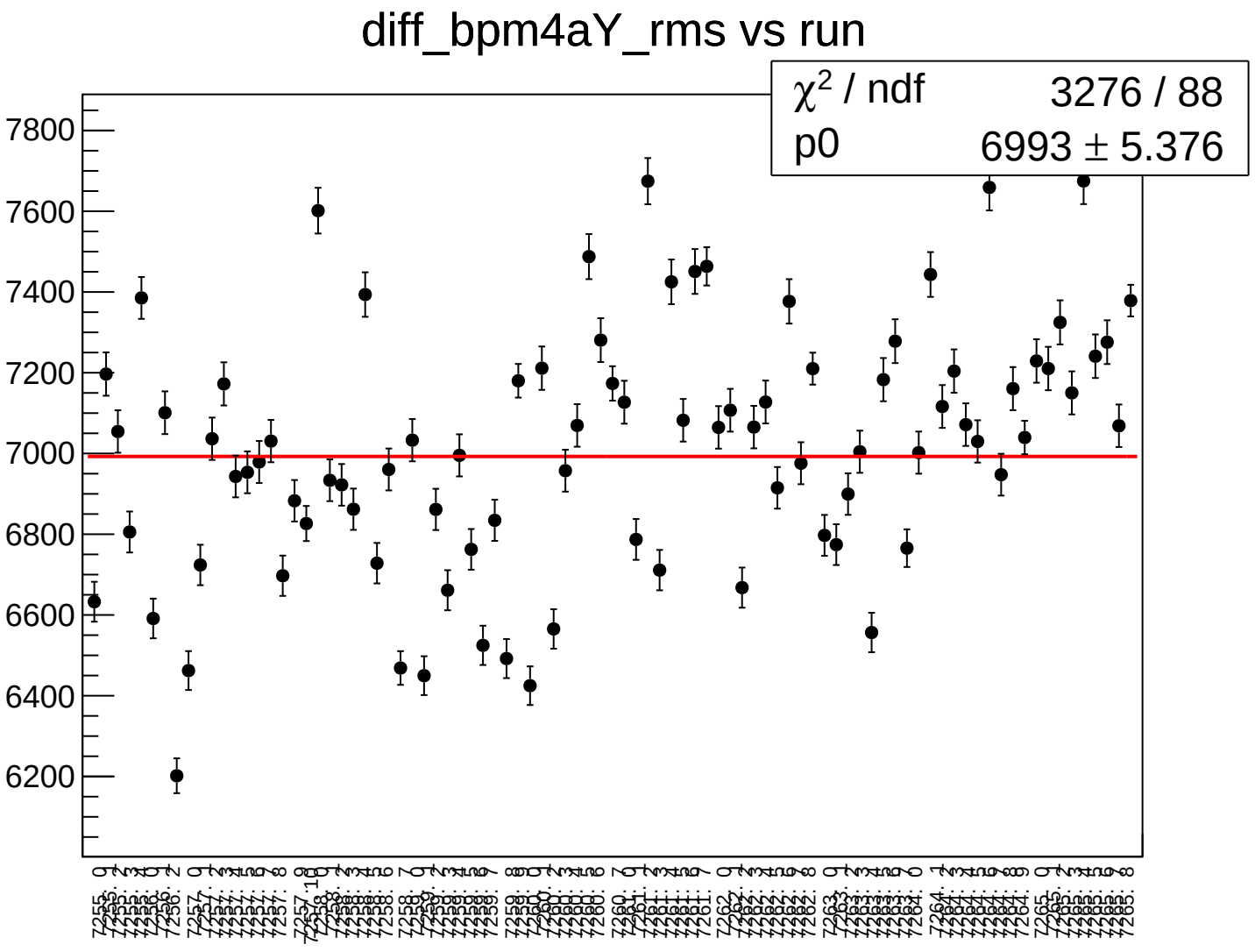

diff_bpm4aX_mean vs run
χ² / ndf 86.03 / 88
p0 −13.88 ± 8.985
pull
Entries 89
Mean −275.3
Std Dev 0

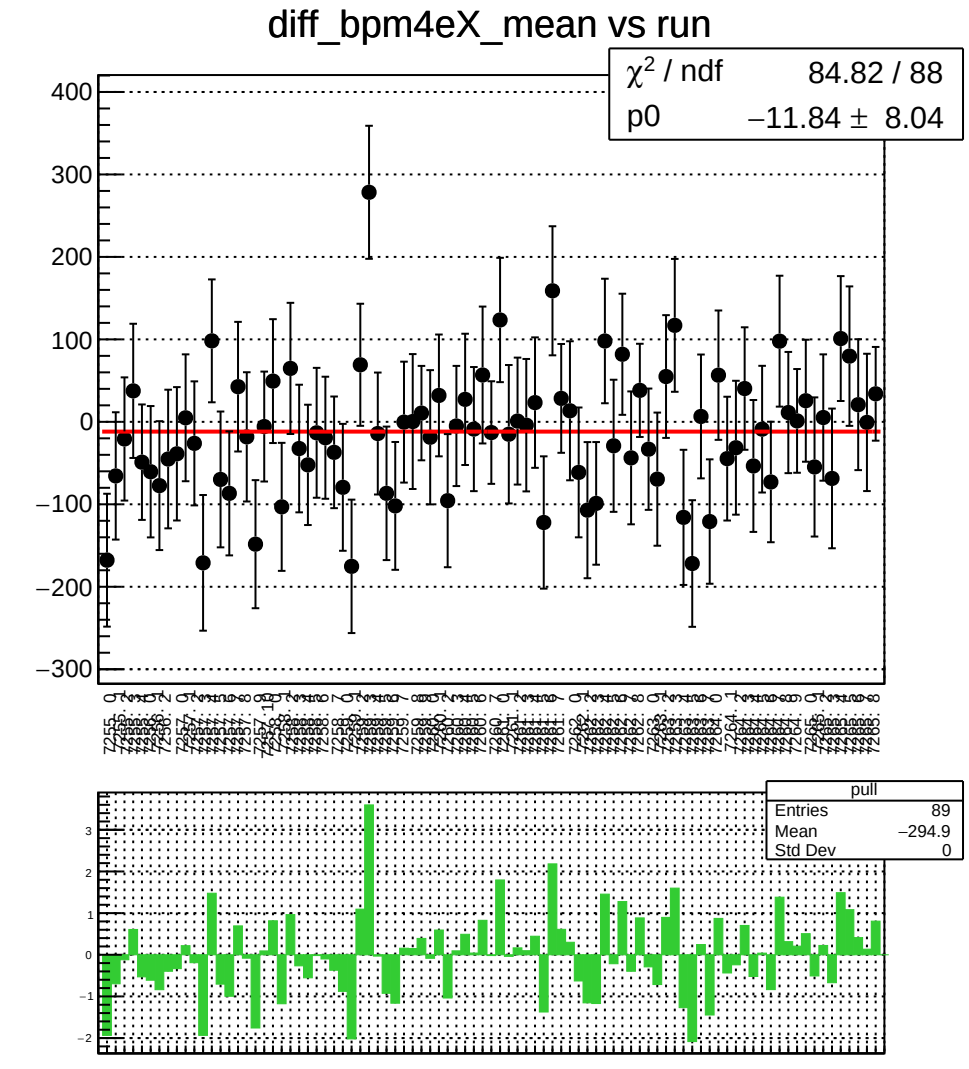

pull1D
Entries 89
Mean −0.0151
Std Dev 0.9831

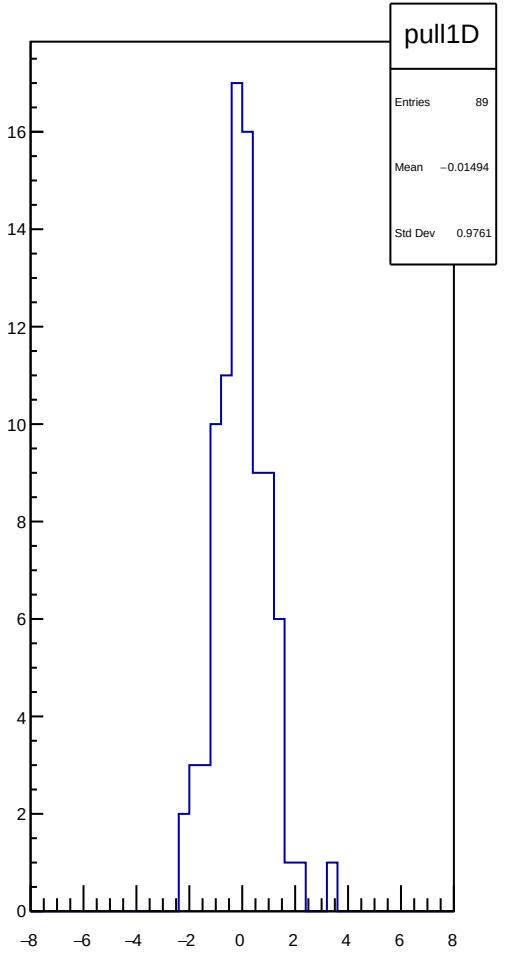

diff_bpm4aX_rms vs run
χ^2 / ndf 3136 / 88
p0 8264 ± 6.353
9500
9000
8500
8000
7500

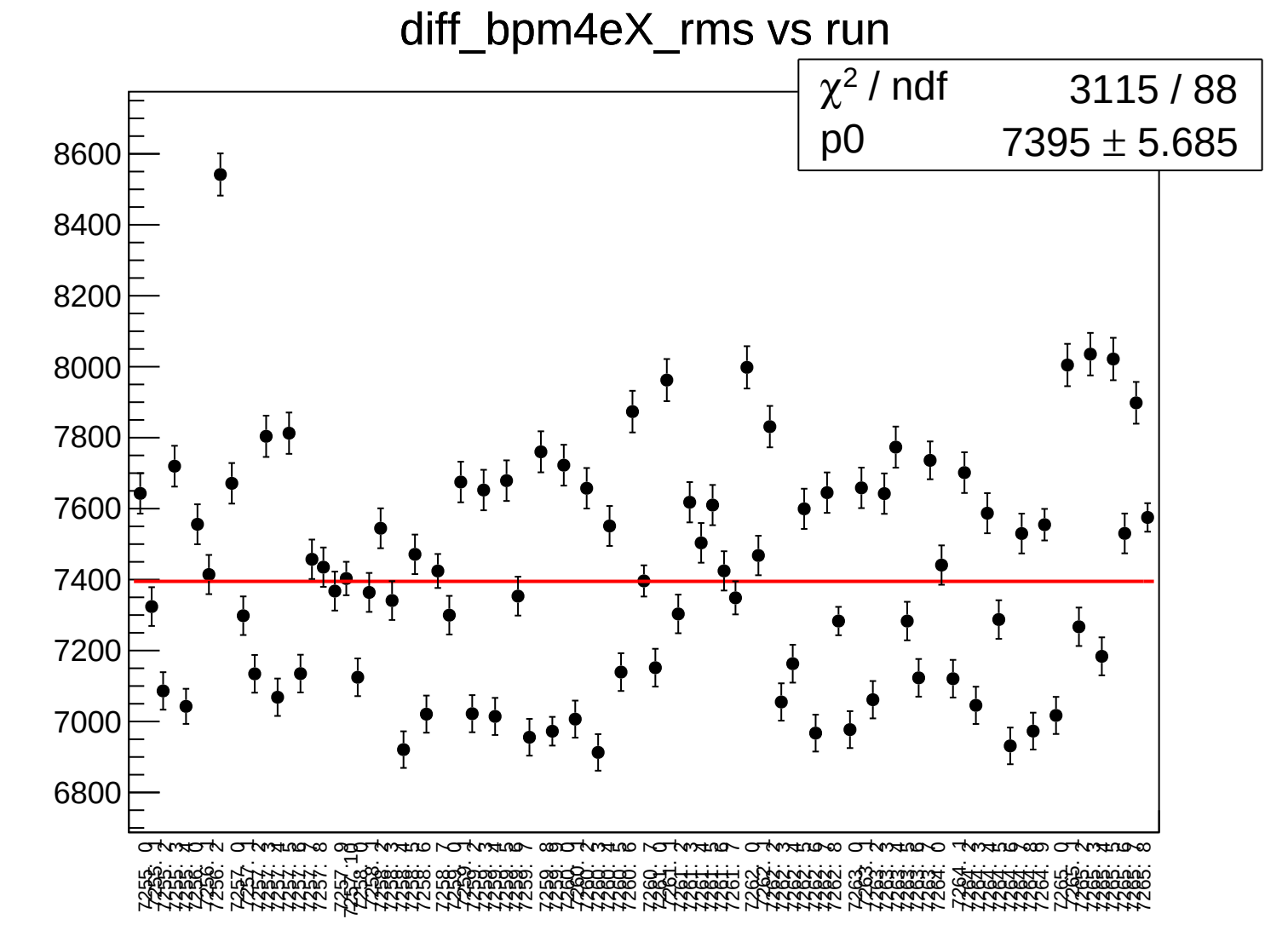

diff_bpm4aY_mean vs run
χ² / ndf 107 / 88
p0 1.225 ± 7.603
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean 71.28
Std Dev 14.45
2
1
0
−1
−2

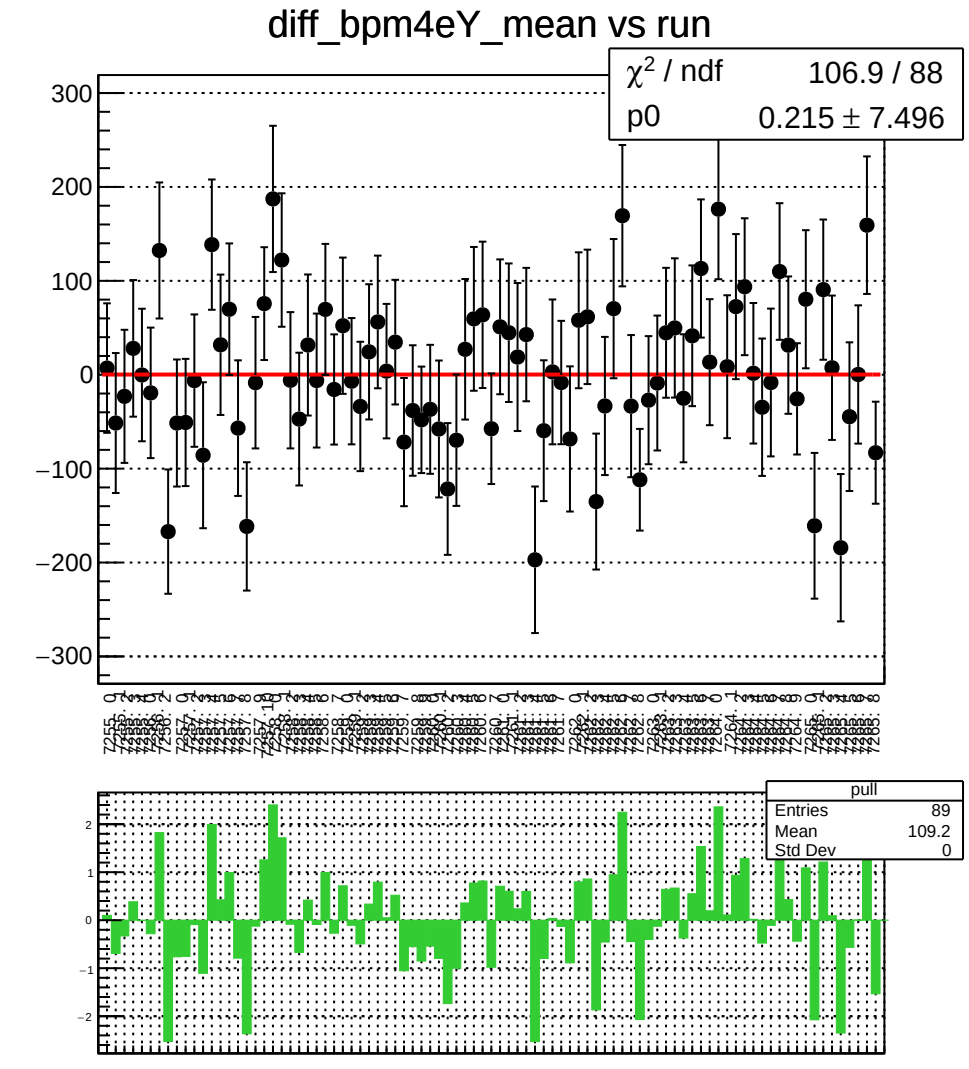

pull1D
Entries 89
Mean 0.02842
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

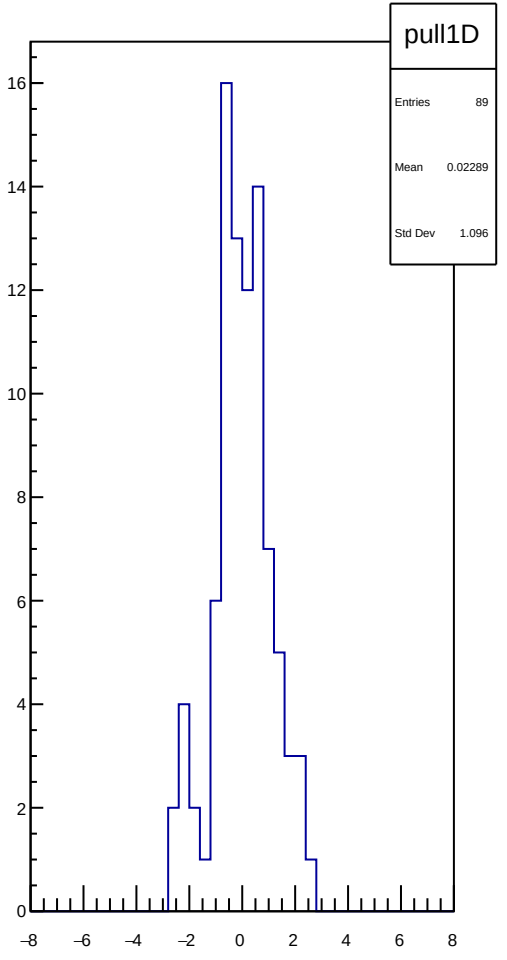

diff_bpm4aY_rms vs run
χ² / ndf 3276 / 88
p0 6993 ± 5.376
7800
7600
7400
7200
7000
6800
6600
6400
6200

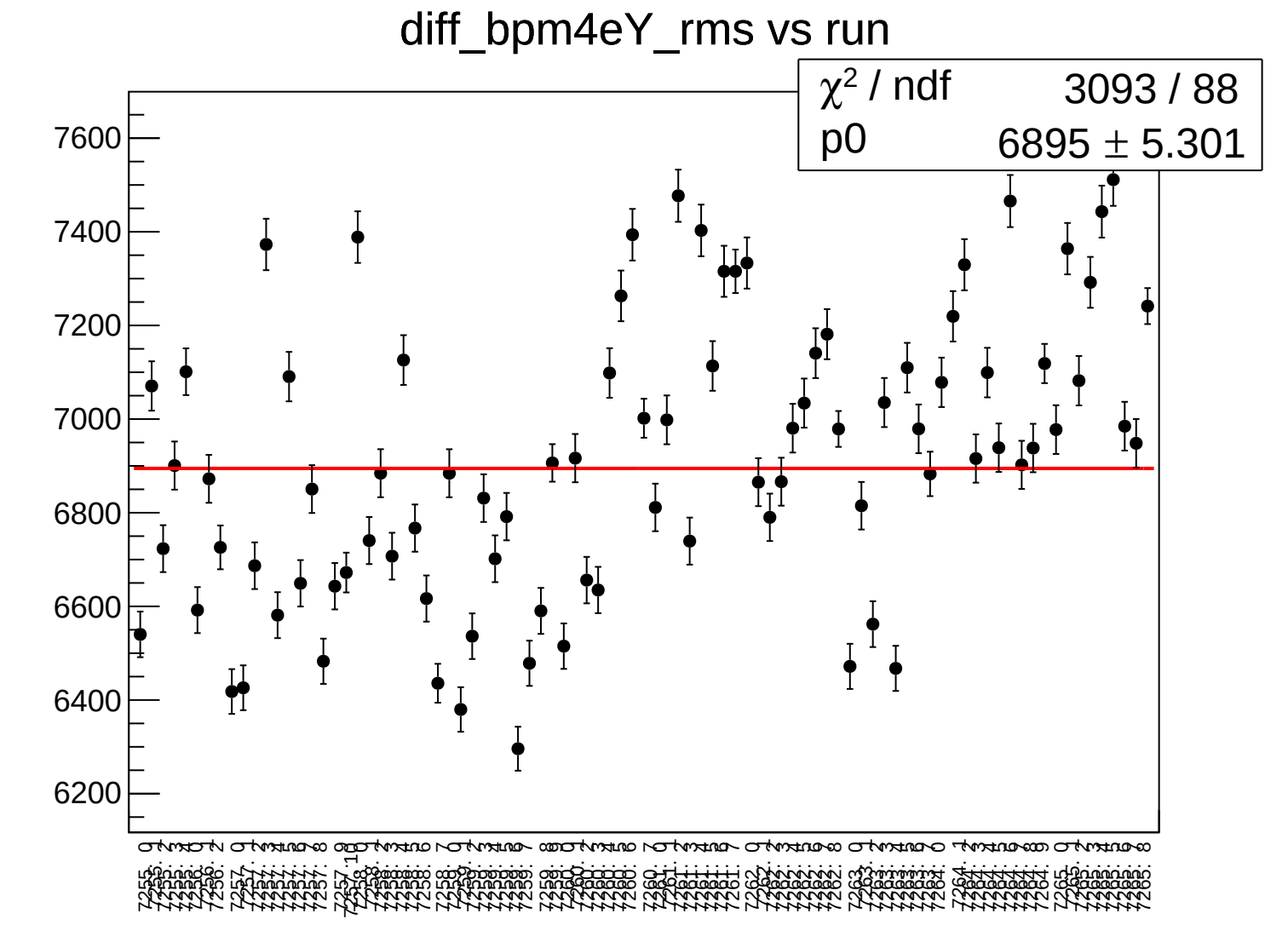

diff_bpm4eX_mean vs run
χ² / ndf 84.82 / 88
p0 −11.84 ± 8.04
pull
Entries 89
Mean −294.9
Std Dev 0

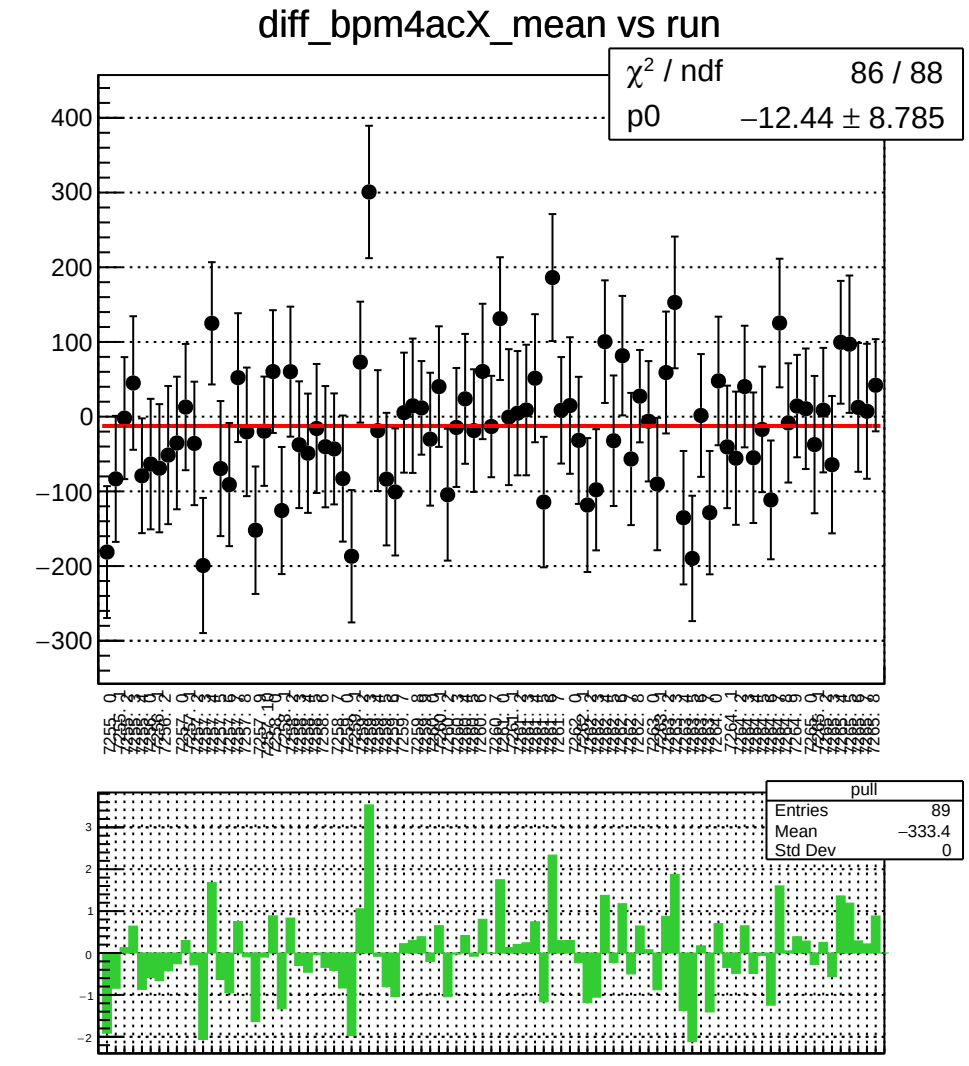

pull1D
Entries 89
Mean −0.01494
Std Dev 0.9761

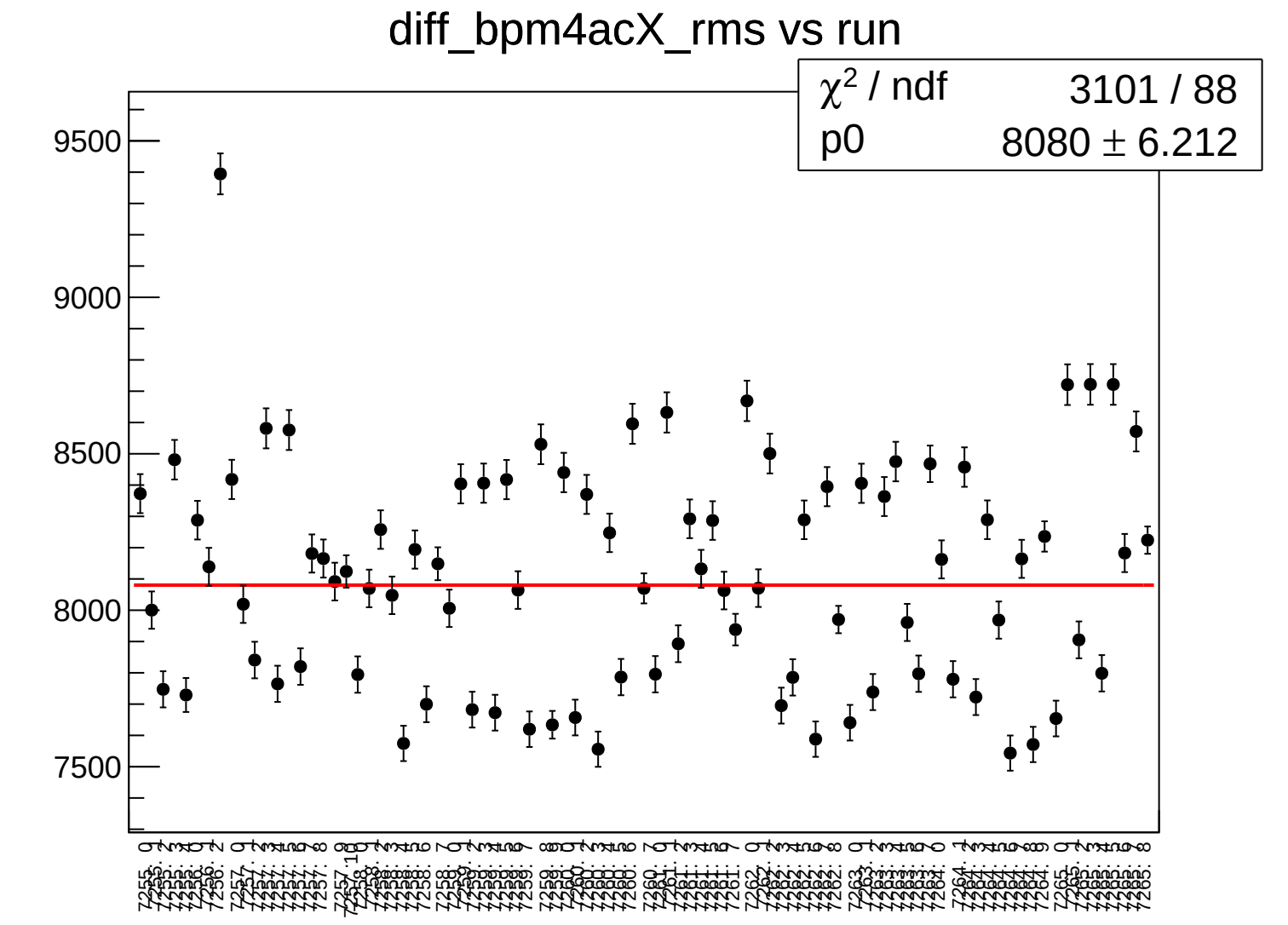

diff_bpm4eX_rms vs run
χ² / ndf 3115 / 88
p0 7395 ± 5.685
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

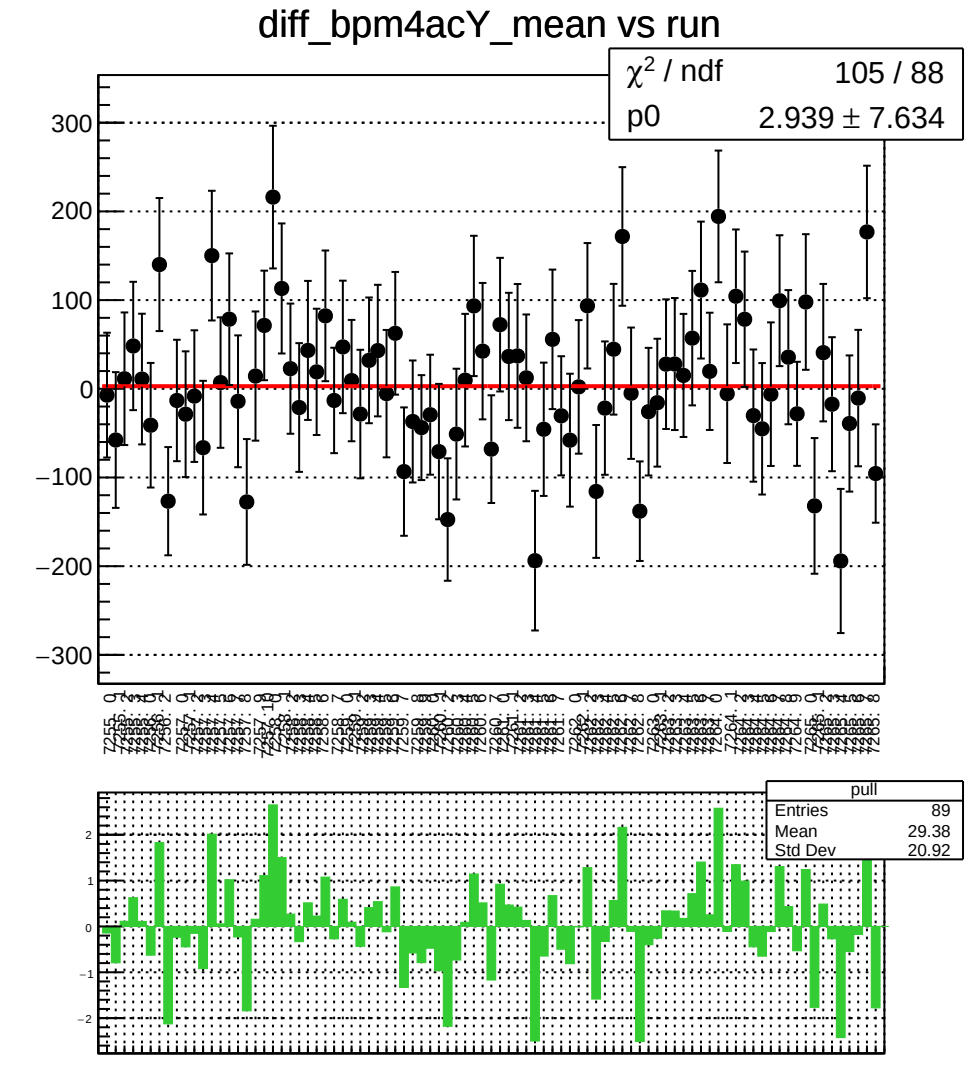

diff_bpm4eY_mean vs run
χ² / ndf 106.9 / 88
p0 0.215 ± 7.496
pull
Entries 89
Mean 109.2
Std Dev 0

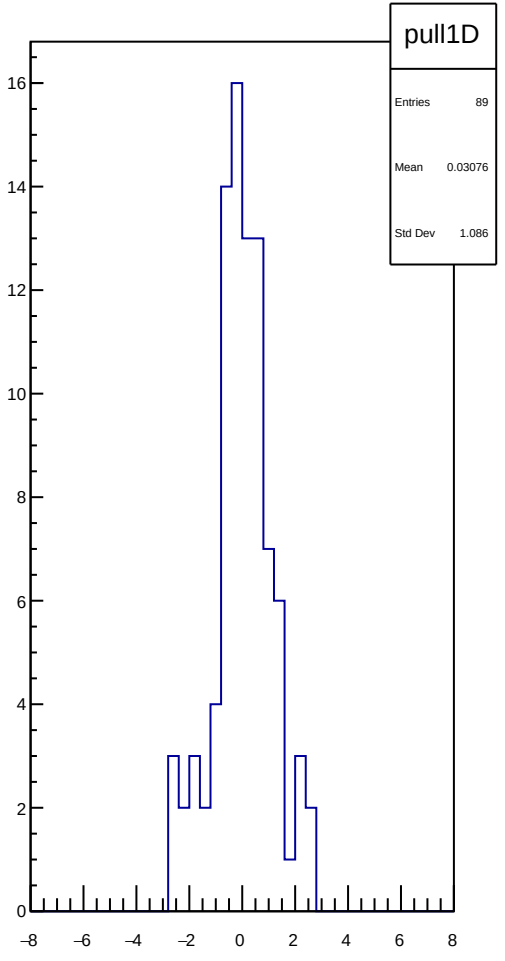

pull1D
Entries 89
Mean 0.02289
Std Dev 1.096

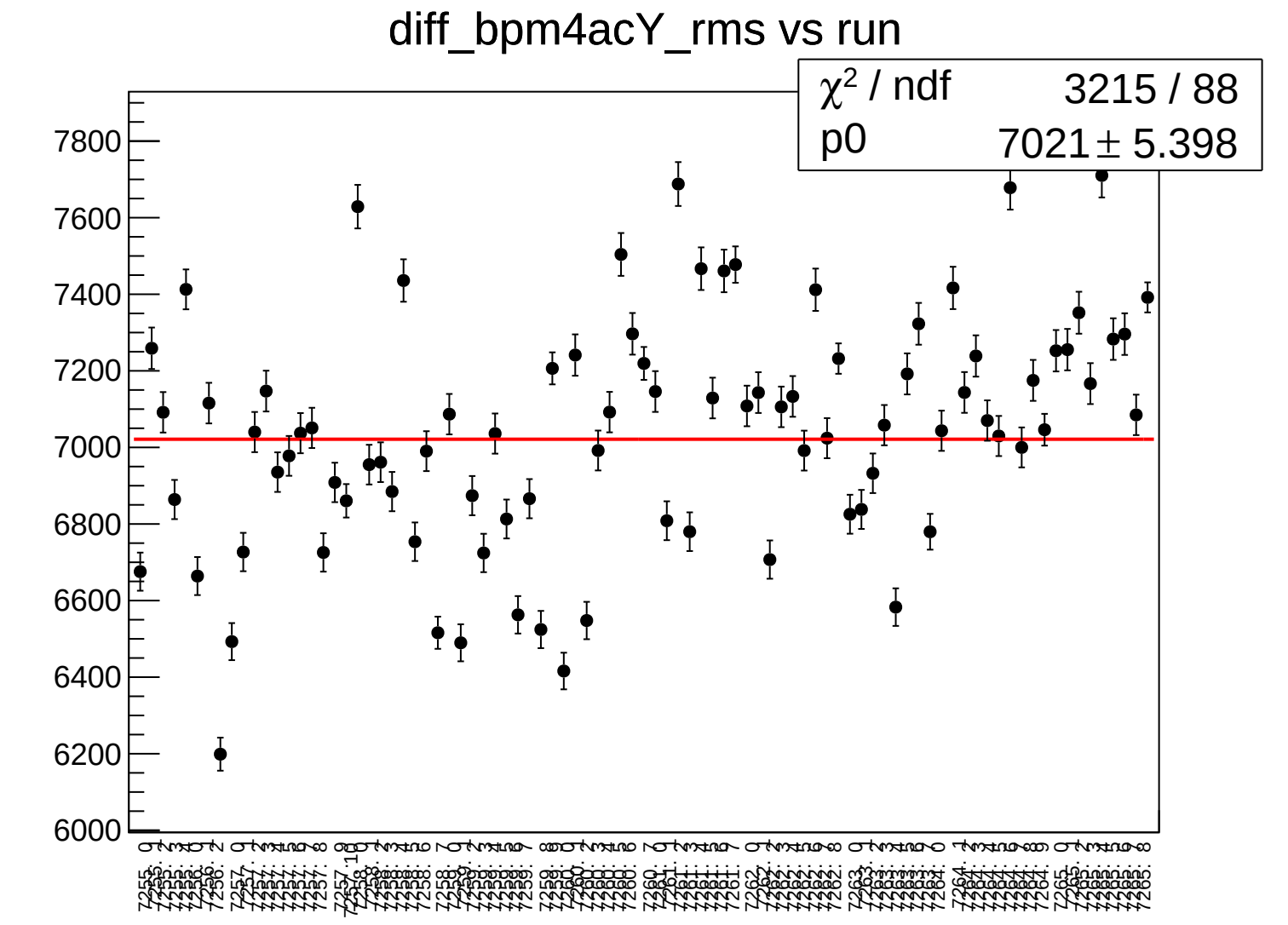

diff_bpm4eY_rms vs run
χ² / ndf 3093 / 88
p0 6895 ± 5.301
7600
7400
7200
7000
6800
6600
6400
6200

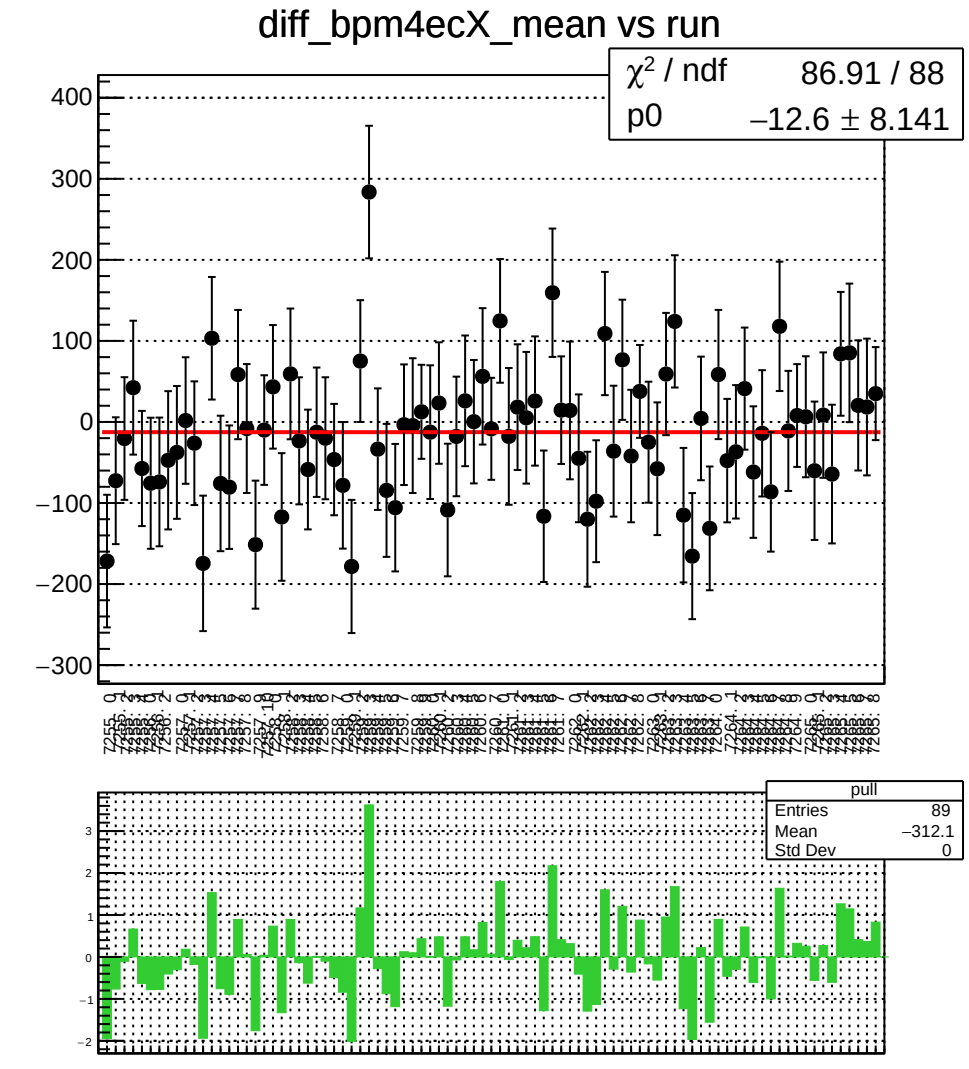

diff_bpm4acX_mean vs run
χ² / ndf 86 / 88
p0 −12.44 ± 8.785
pull
Entries 89
Mean −333.4
Std Dev 0
pull1D
Entries 89
Mean −0.0131
Std Dev 0.9829

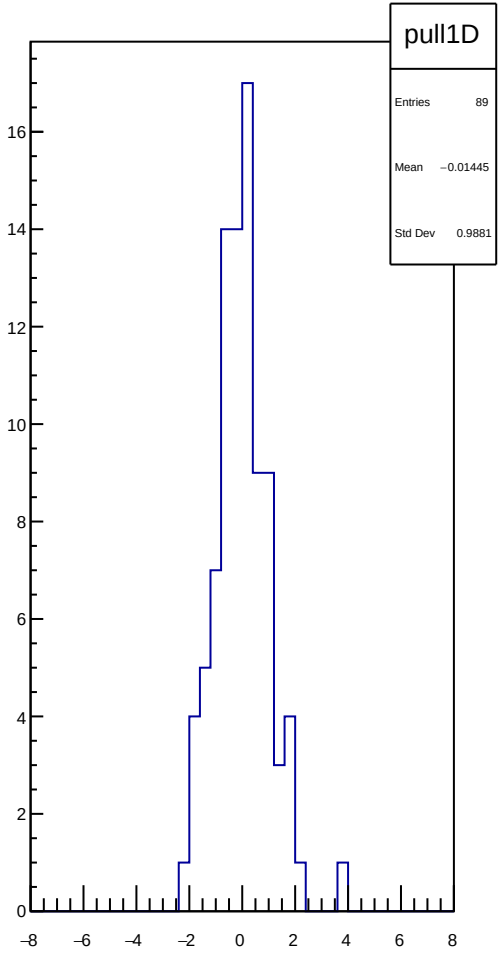

diff_bpm4acX_rms vs run
χ² / ndf 3101 / 88
p0 8080 ± 6.212
9500
9000
8500
8000
7500

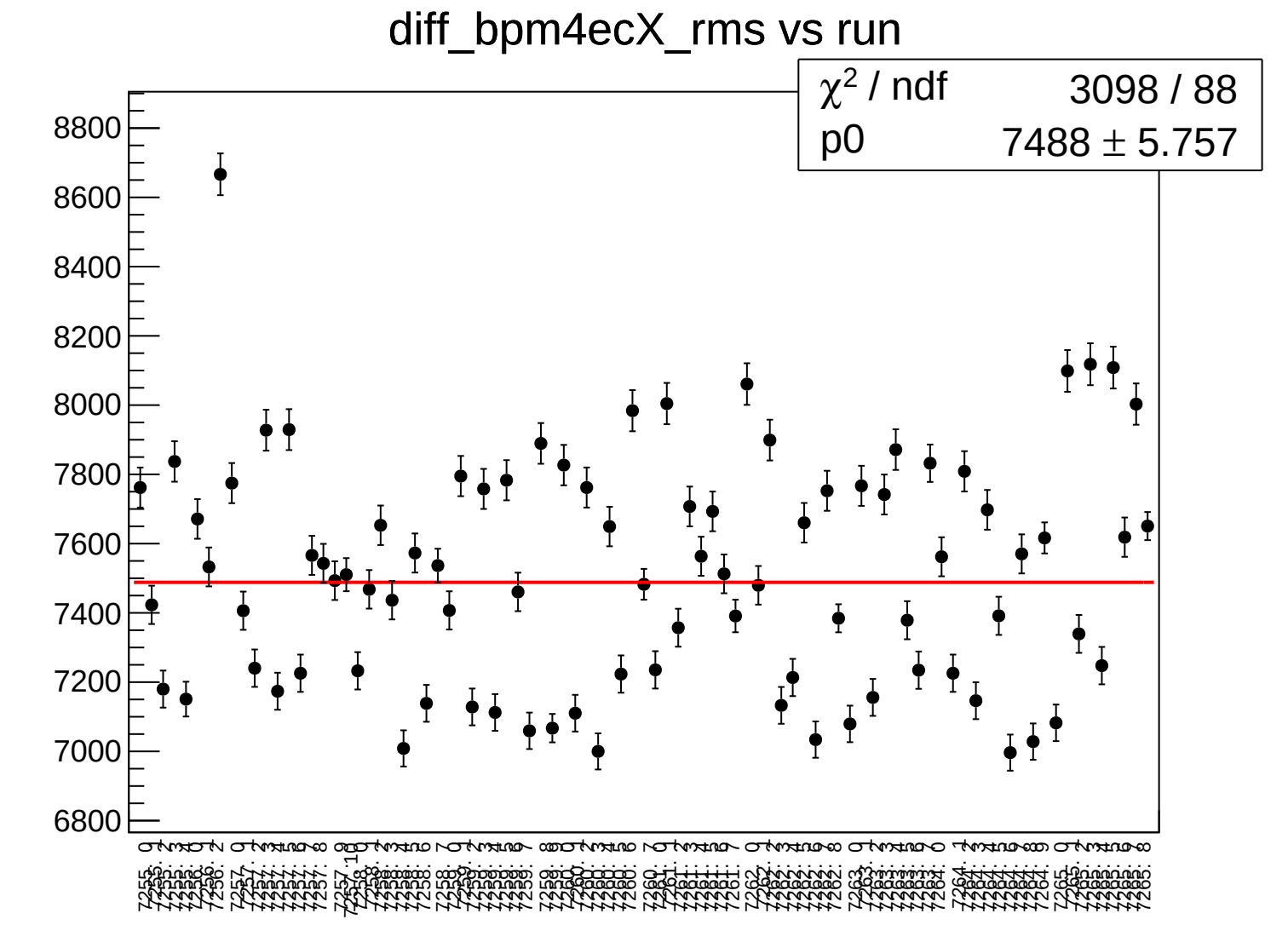

diff_bpm4acY_mean vs run
χ² / ndf 105 / 88
p0 2.939 ± 7.634
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean 29.38
Std Dev 20.92
2
1
0
−1
−2

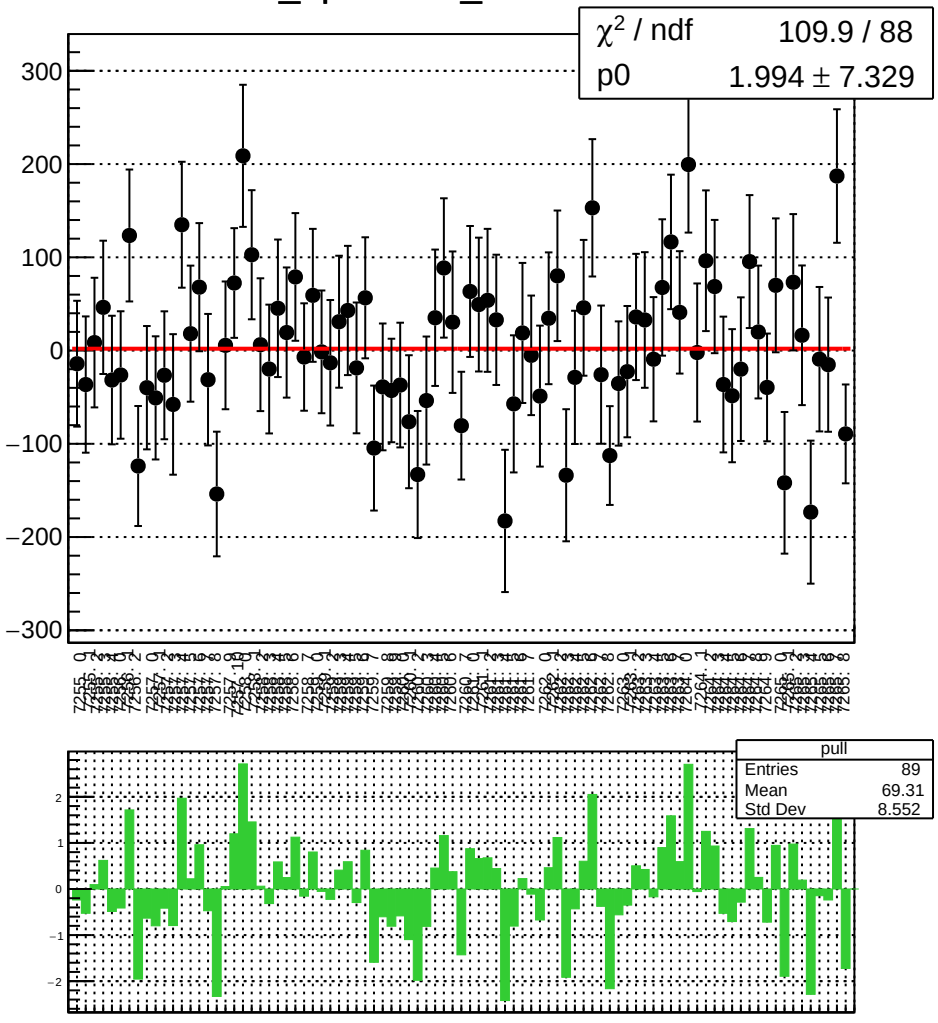

pull1D
Entries 89
Mean 0.03076
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

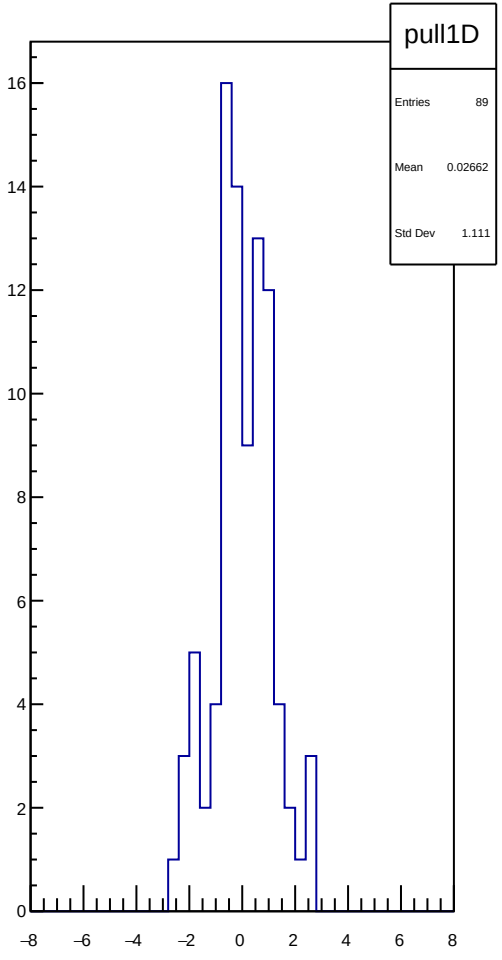

diff_bpm4acY_rms vs run
χ² / ndf 3215 / 88
p0 7021 ± 5.398
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

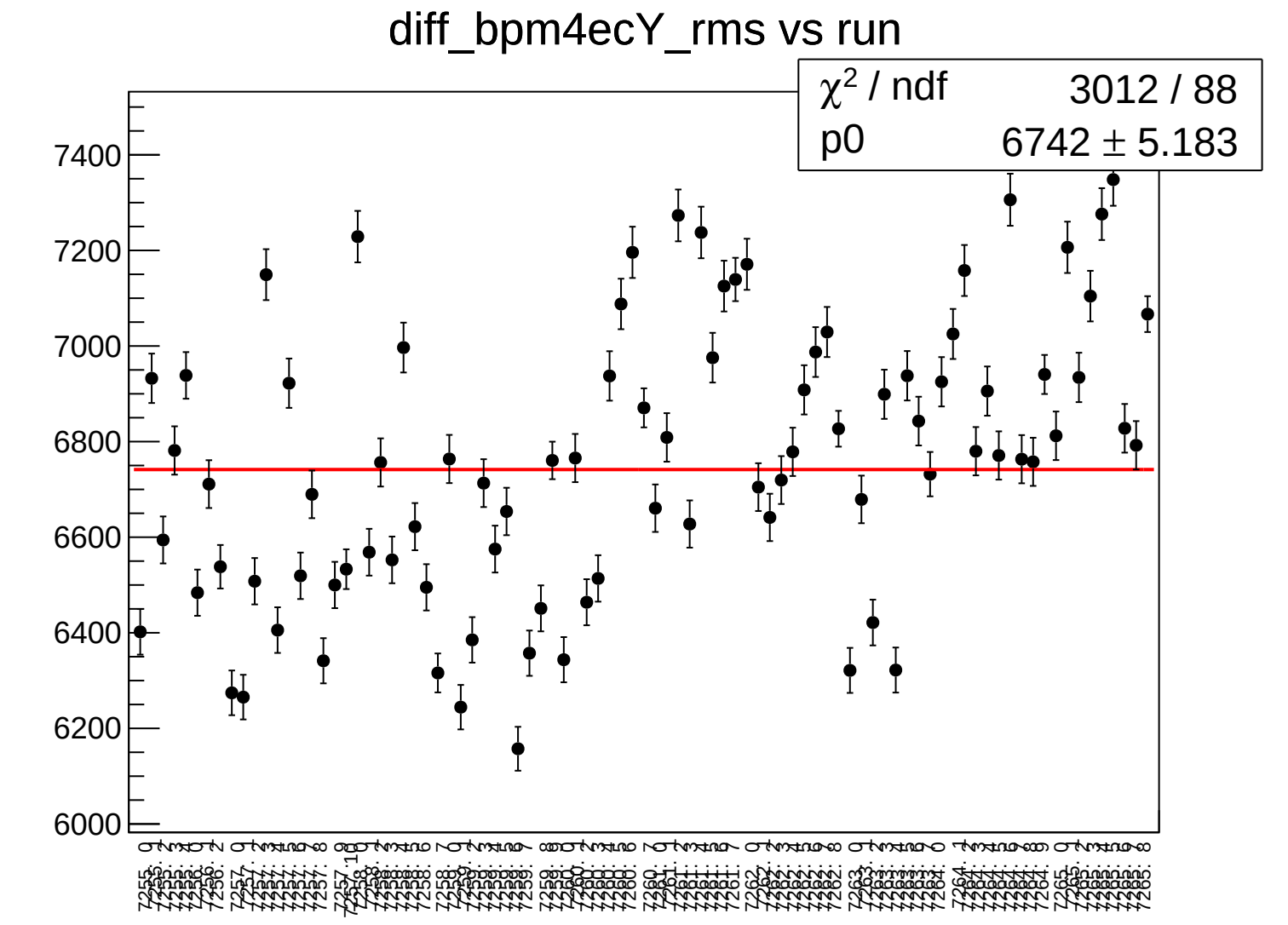

diff_bpm4ecX_mean vs run
χ² / ndf 86.91 / 88
p0 −12.6 ± 8.141
pull
Entries 89
Mean −312.1
Std Dev 0

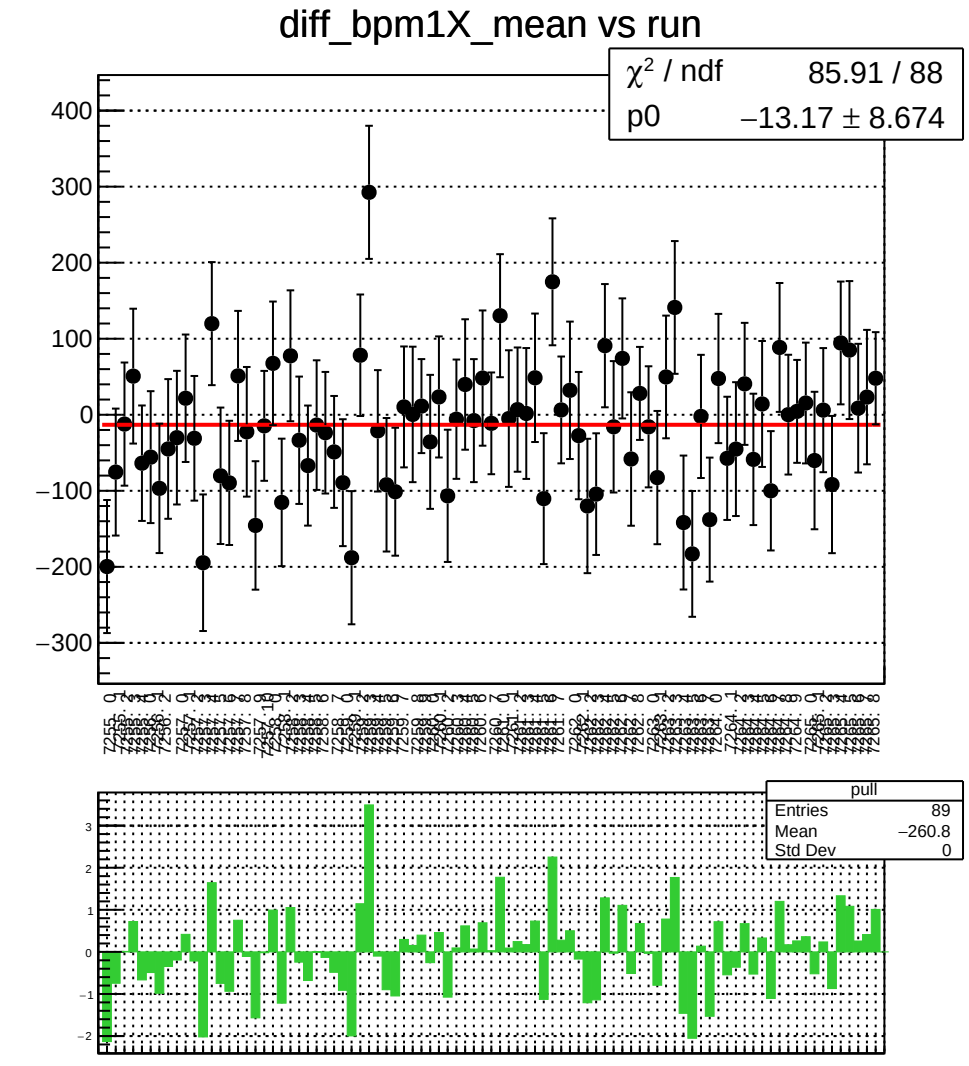

pull1D
Entries 89
Mean −0.01445
Std Dev 0.9881

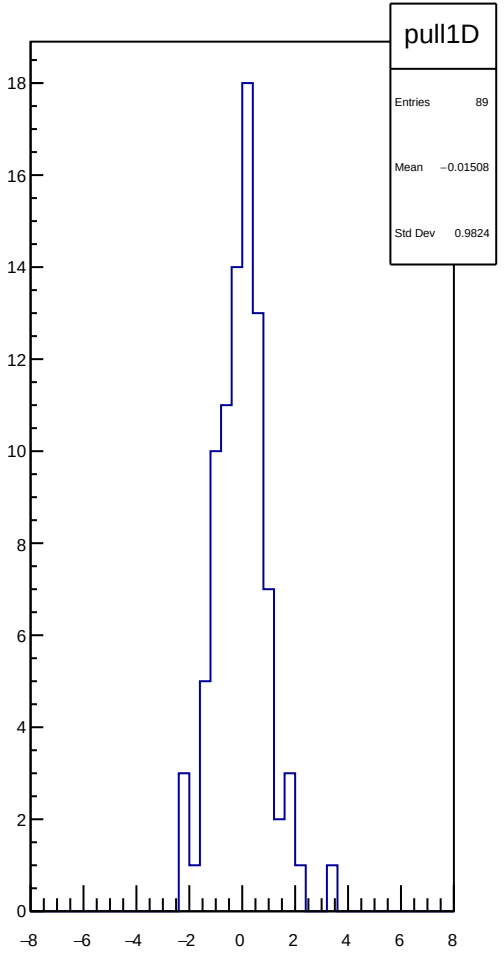

diff_bpm4ecX_rms vs run
χ² / ndf 3098 / 88
p0 7488 ± 5.757
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

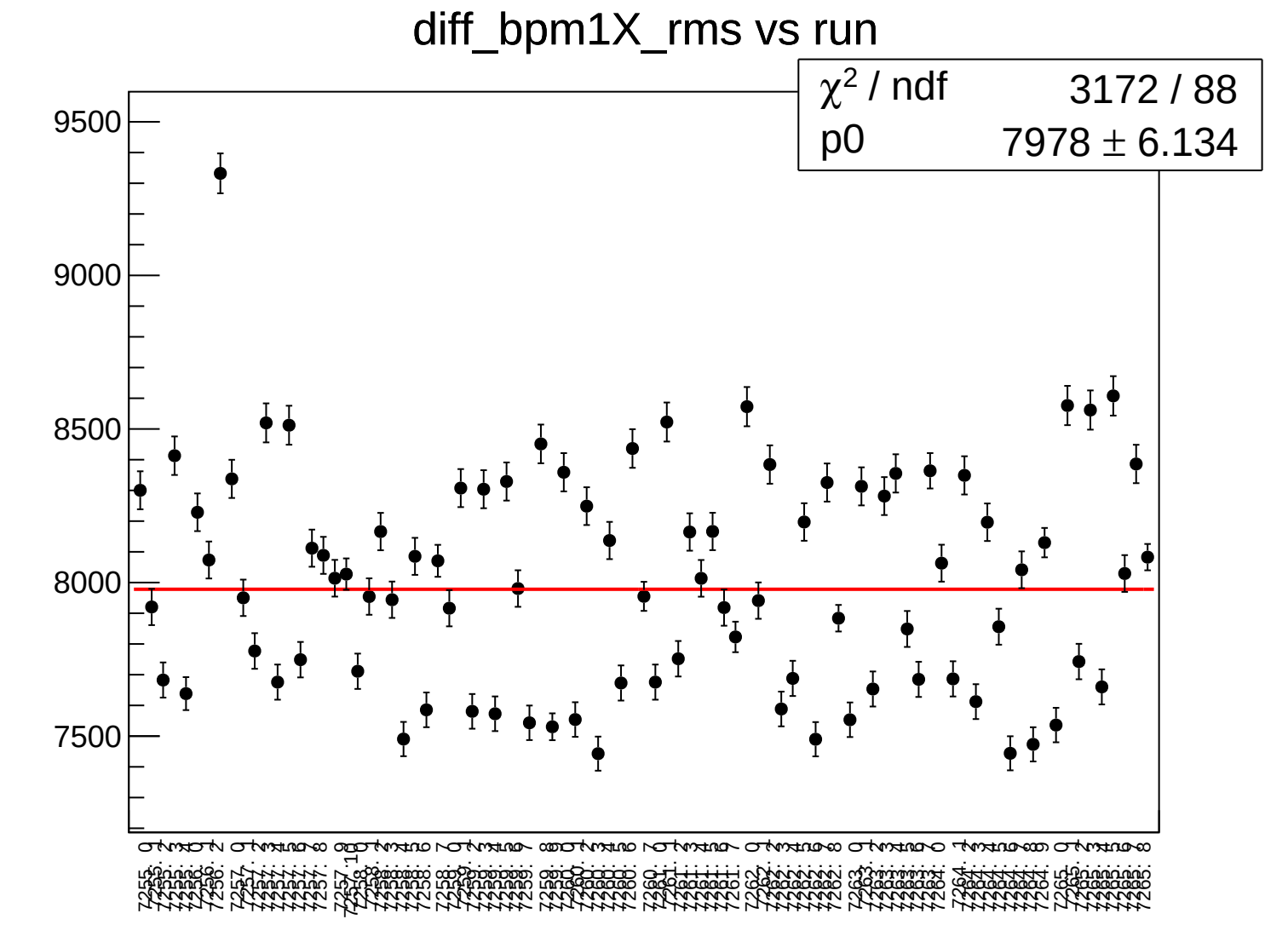

diff_bpm4ecY_mean vs run
χ² / ndf 109.9 / 88
p0 1.994 ± 7.329
pull
Entries 89
Mean 69.31
Std Dev 8.552

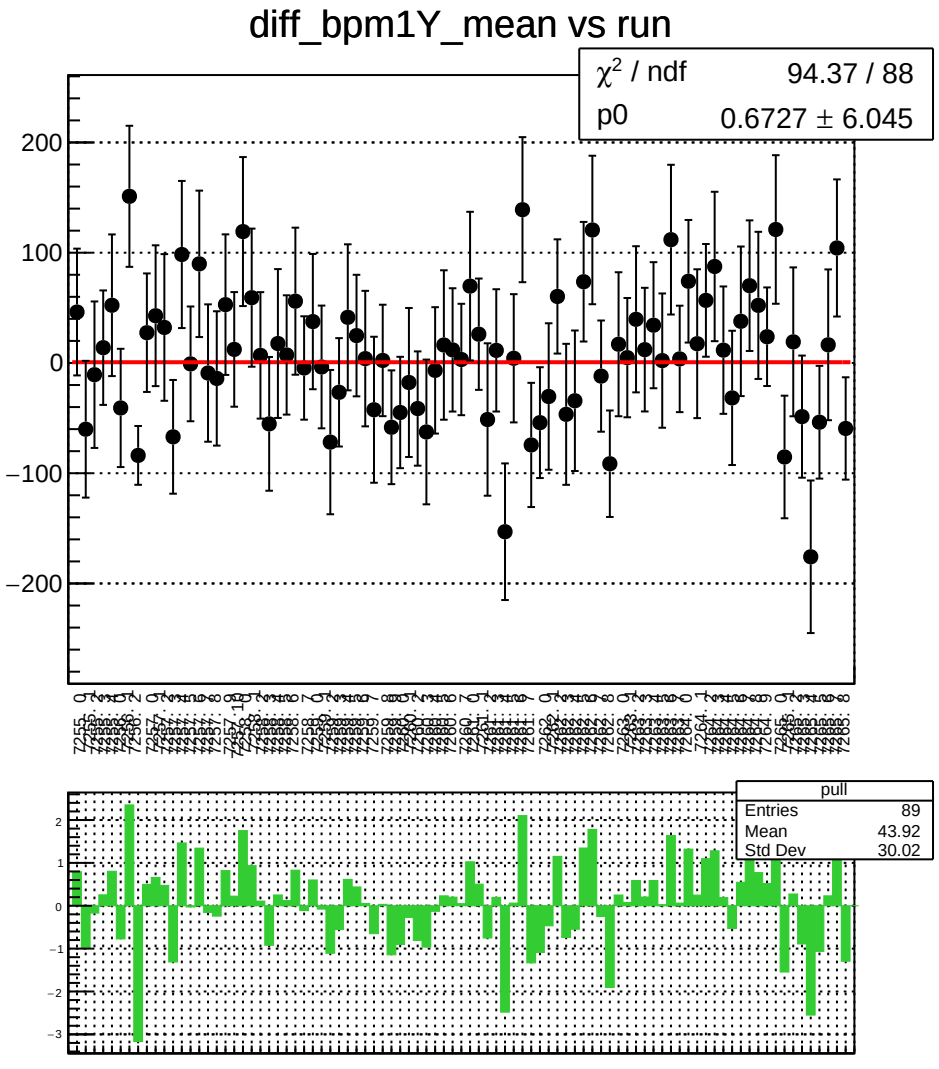

pull1D
Entries 89
Mean 0.02662
Std Dev 1.111

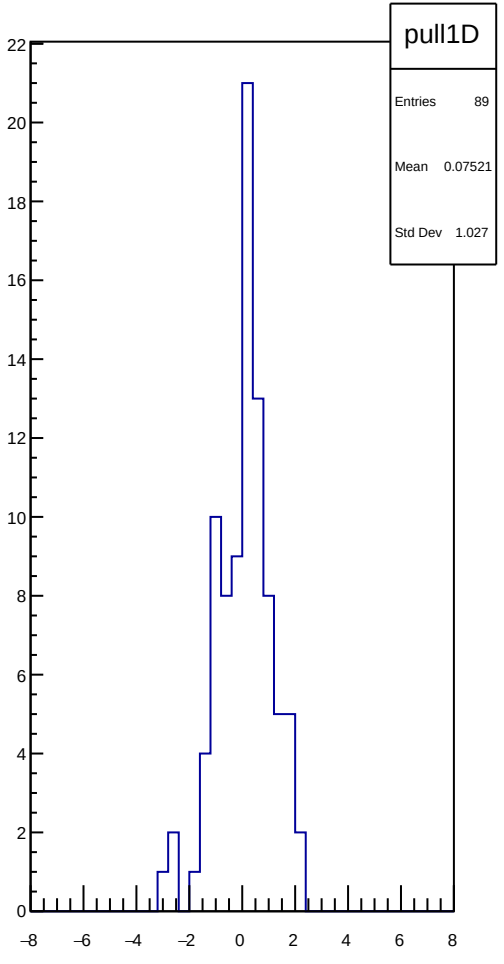

diff_bpm4ecY_rms vs run
χ² / ndf 3012 / 88
p0 6742 ± 5.183
7400
7200
7000
6800
6600
6400
6200
6000

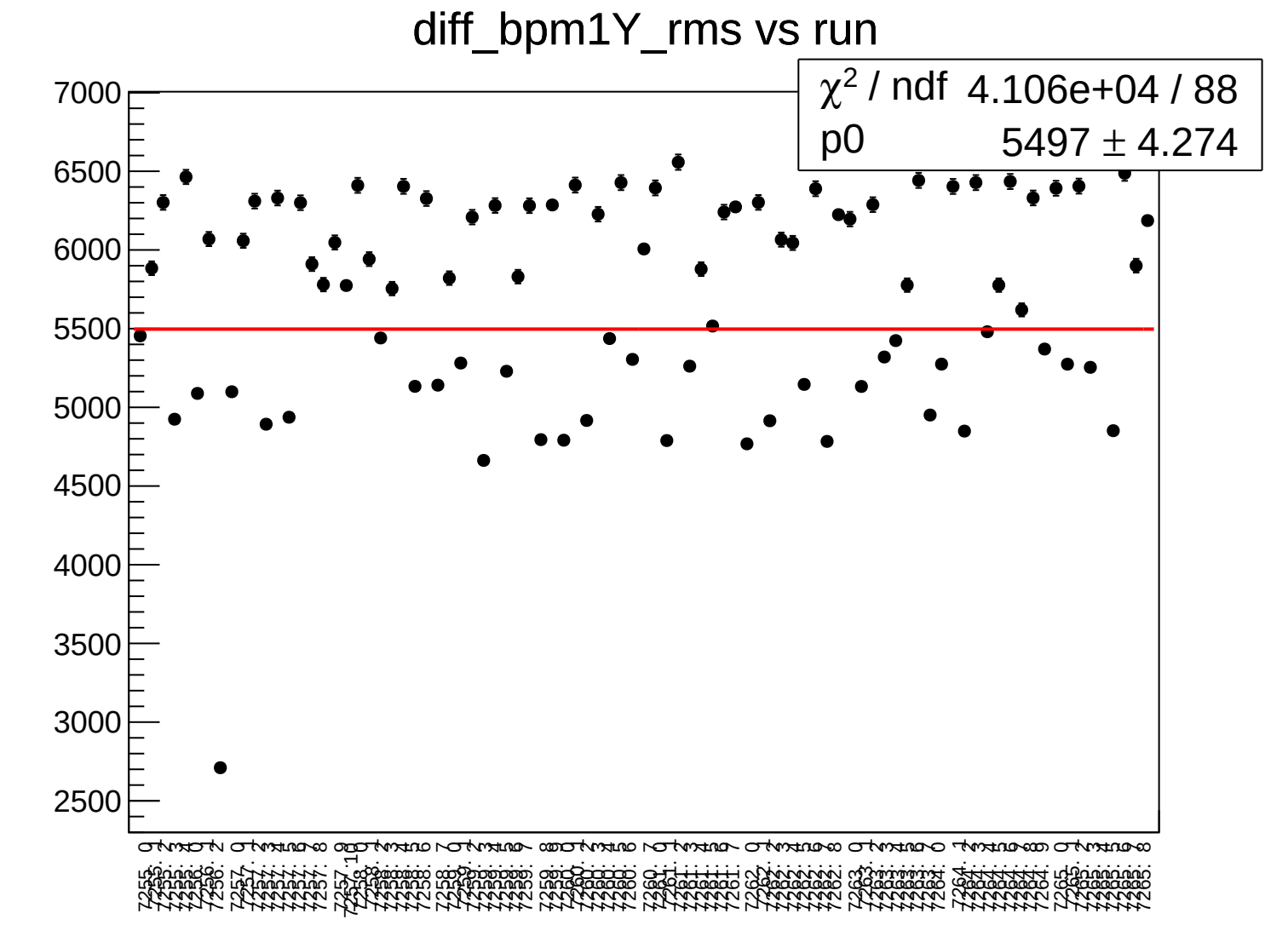

diff_bpm1X_mean vs run
χ² / ndf 85.91 / 88
p0 −13.17 ± 8.674
pull
Entries 89
Mean −260.8
Std Dev 0

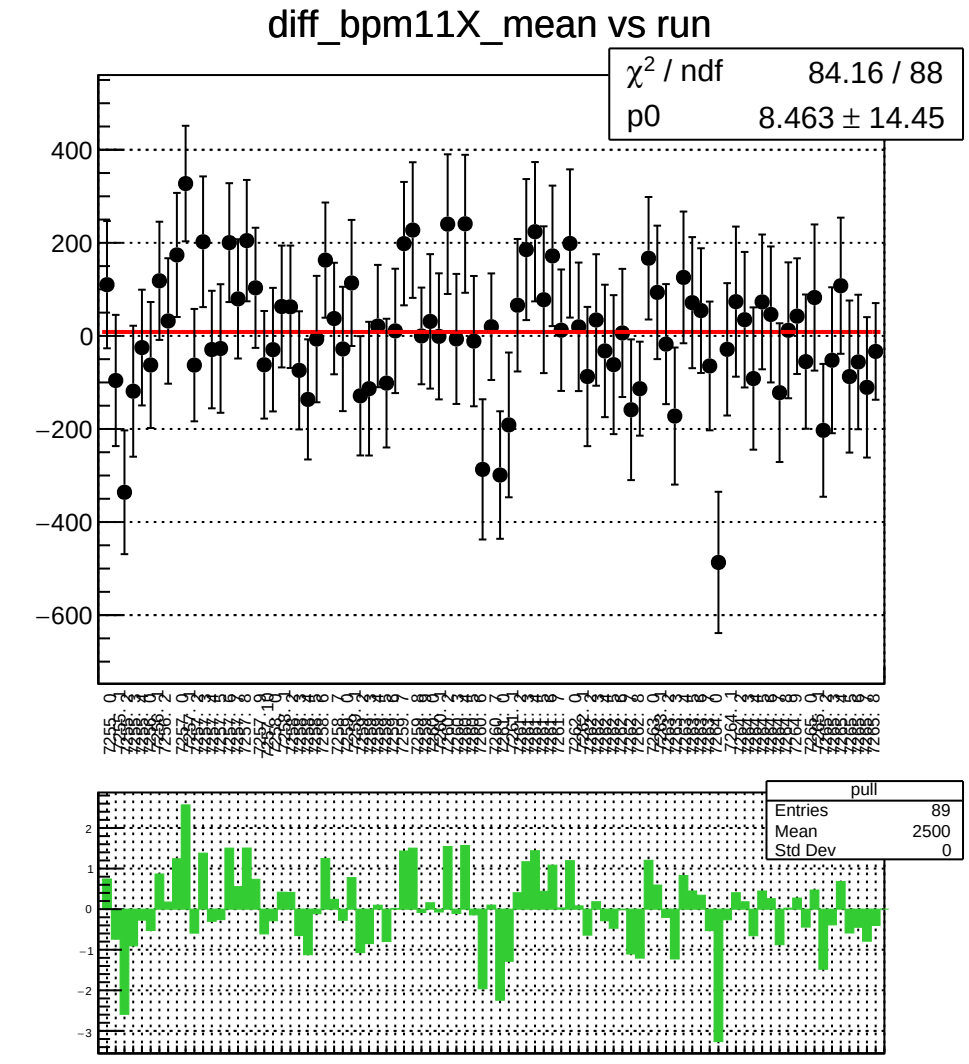

pull1D
Entries 89
Mean −0.01508
Std Dev 0.9824

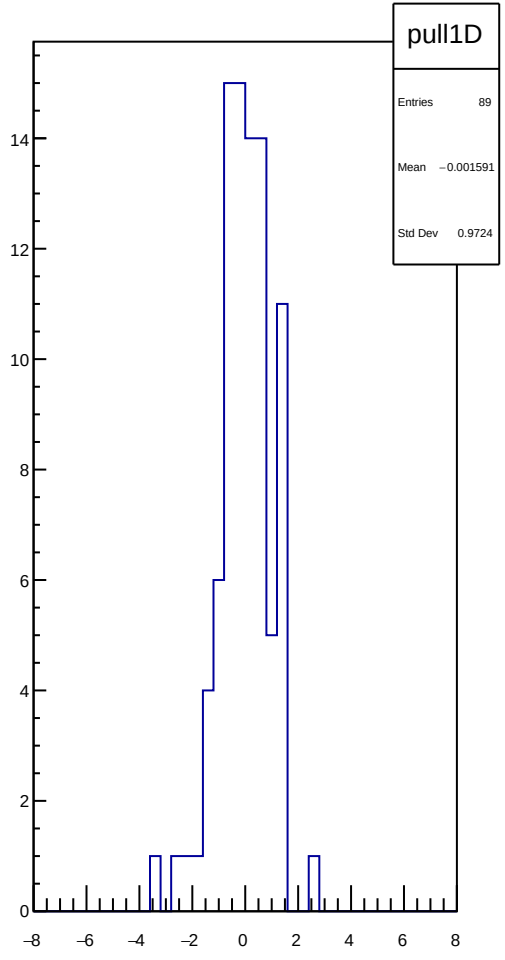

diff_bpm1X_rms vs run
χ^2 / ndf 3172 / 88
p0 7978 ± 6.134
9500
9000
8500
8000
7500

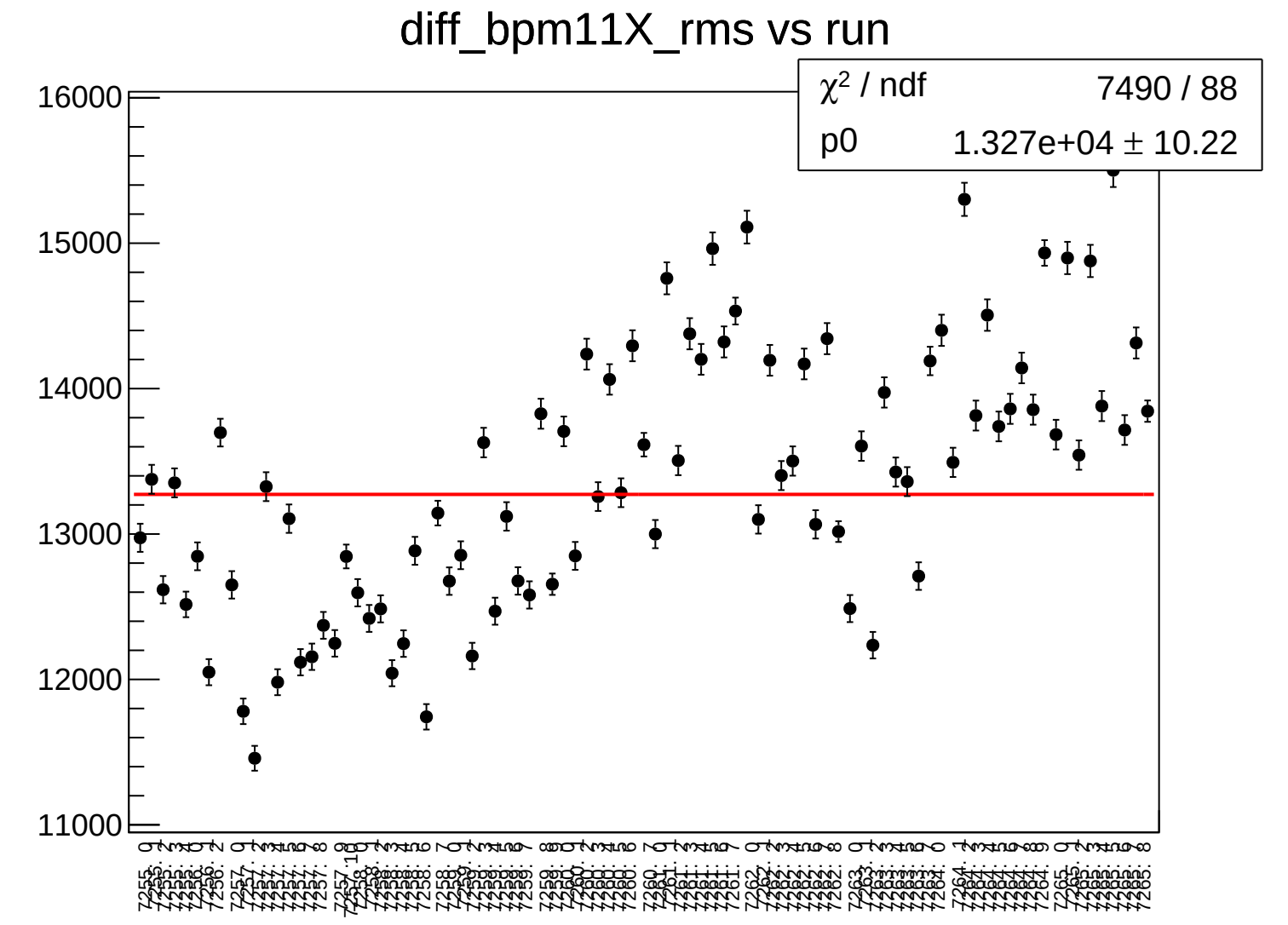

diff_bpm1Y_mean vs run
χ² / ndf 94.37 / 88
p0 0.6727 ± 6.045
200
100
0
−100
−200
pull
Entries 89
Mean 43.92
Std Dev 30.02
2
1
0
−1
−2
−3

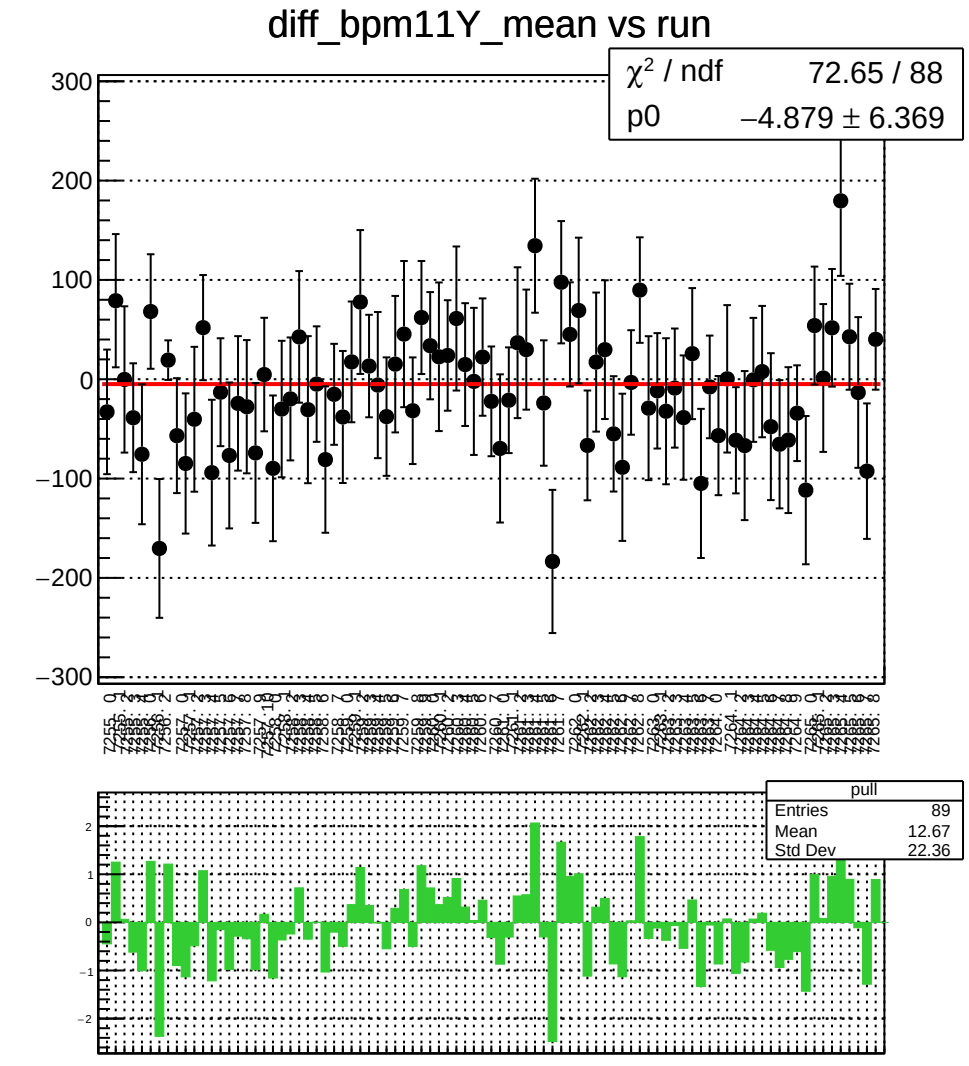

pull1D
Entries 89
Mean 0.07521
Std Dev 1.027
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

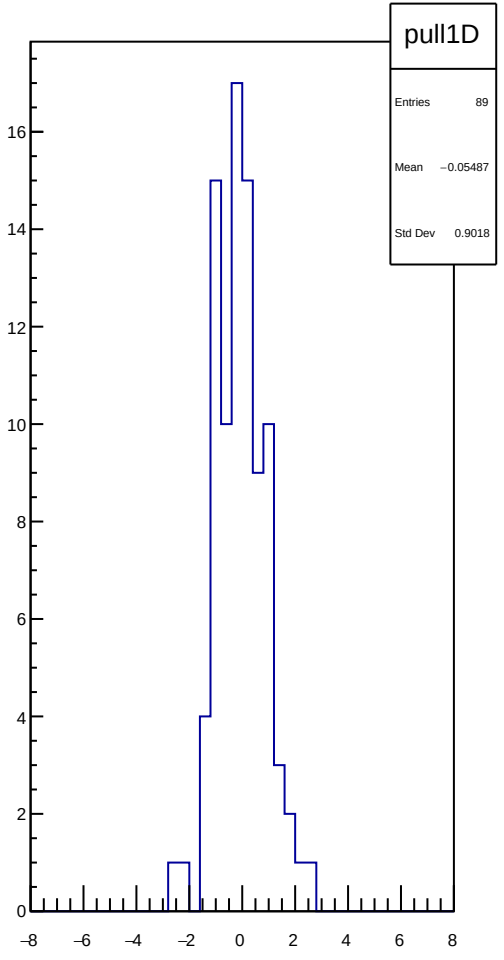

diff_bpm1Y_rms vs run
χ^2 / ndf 4.106e+04 / 88
p0 5497 ± 4.274
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500

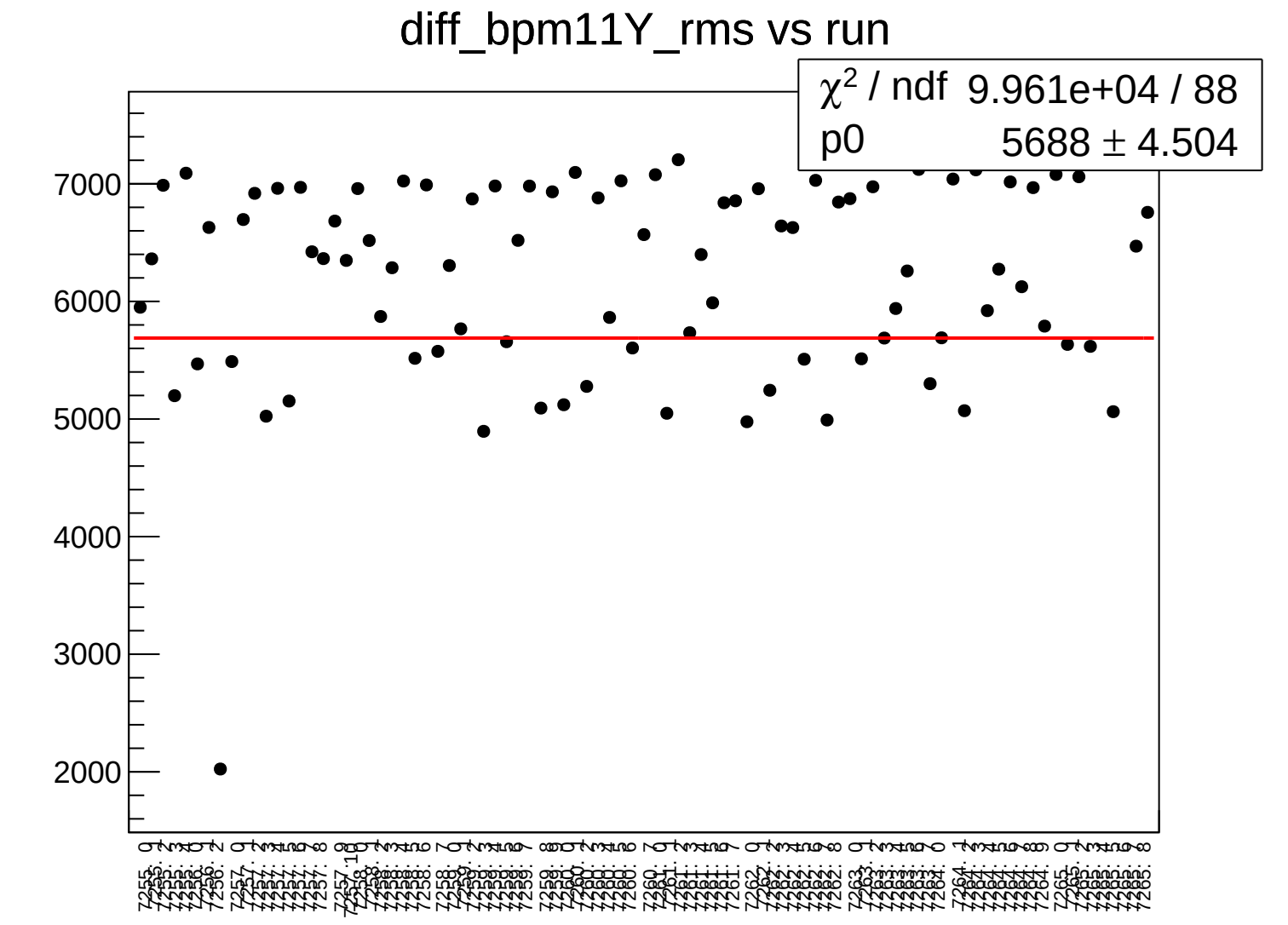

diff_bpm11X_mean vs run
χ² / ndf 84.16 / 88
p0 8.463 ± 14.45
pull
Entries 89
Mean 2500
Std Dev 0

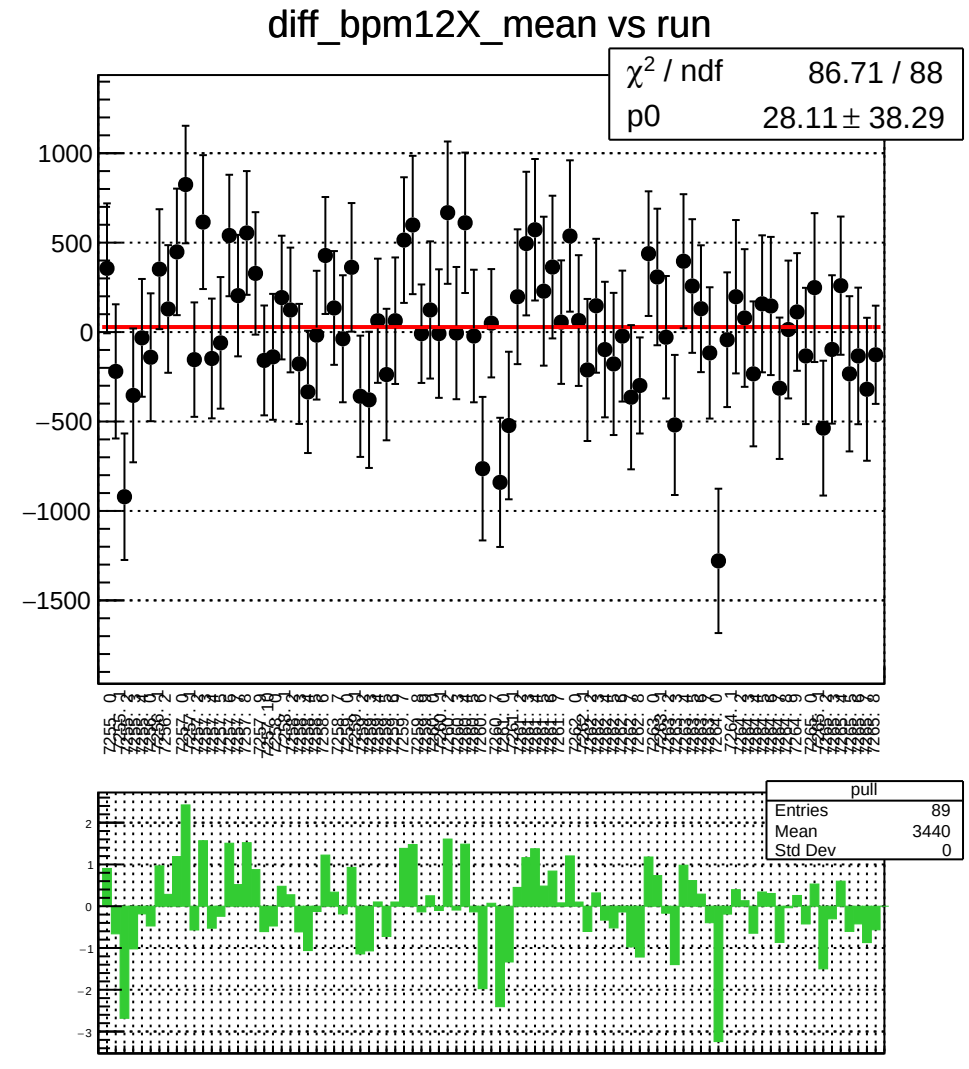

pull1D
Entries 89
Mean −0.001591
Std Dev 0.9724

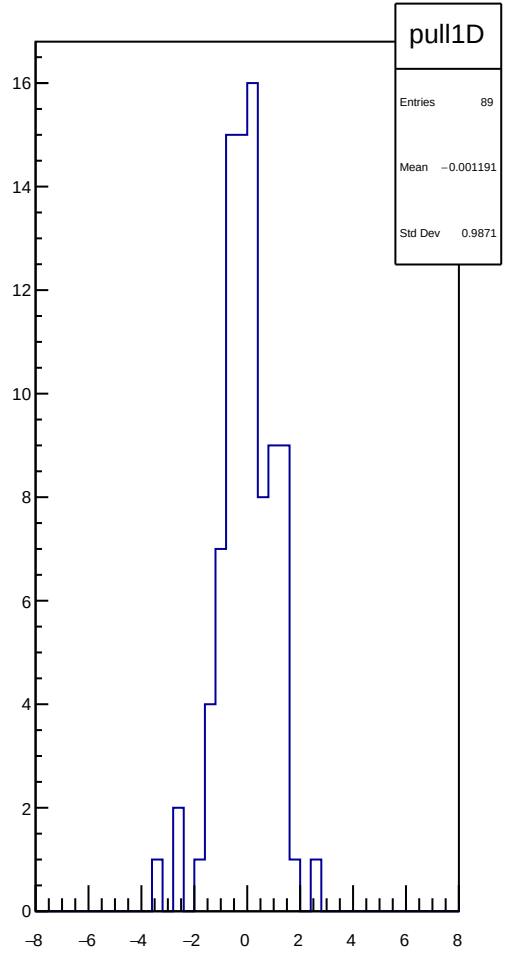

diff_bpm11X_rms vs run
χ² / ndf 7490 / 88
p0 1.327e+04 ± 10.22
16000
15000
14000
13000
12000
11000

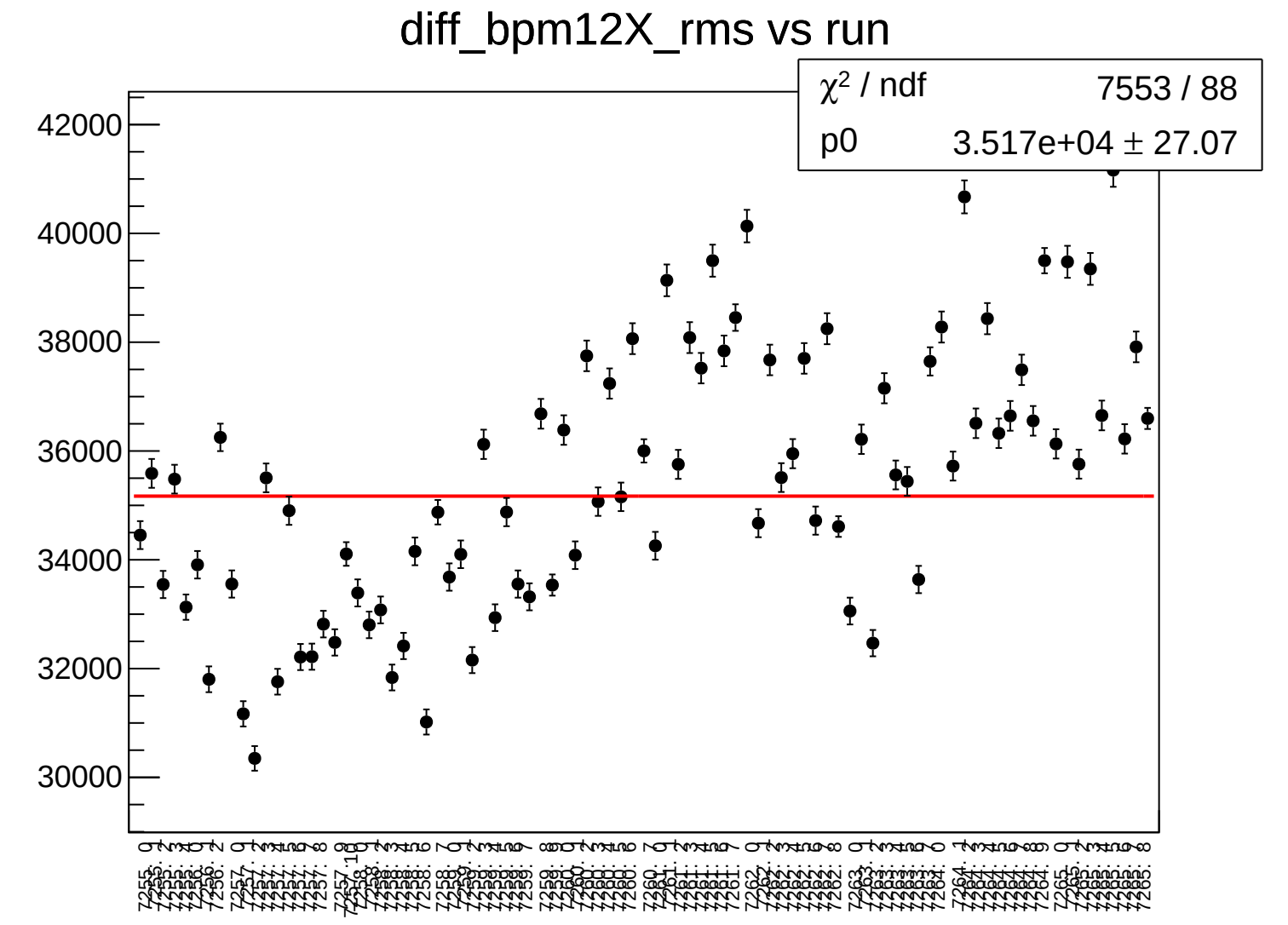

diff_bpm11Y_mean vs run
χ² / ndf 72.65 / 88
p0 −4.879 ± 6.369
pull
Entries 89
Mean 12.67
Std Dev 22.36

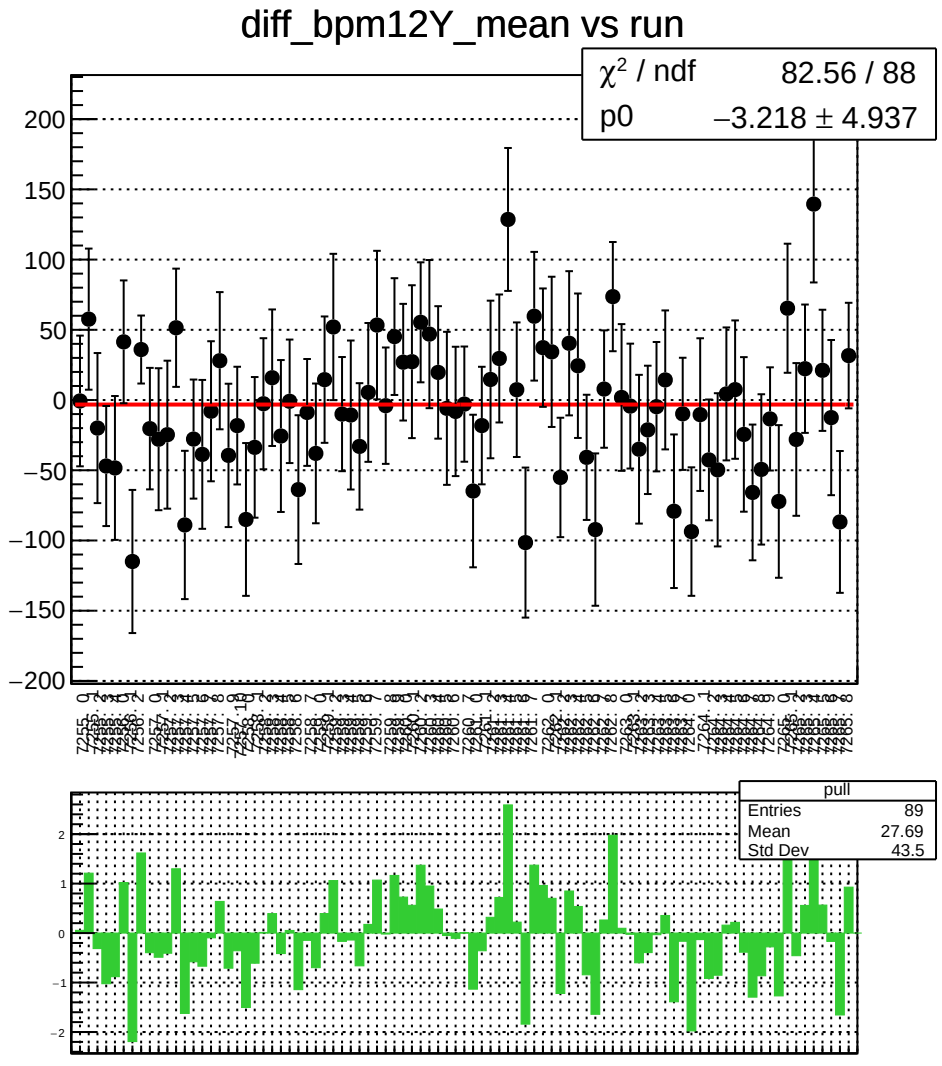

pull1D
Entries 89
Mean −0.05487
Std Dev 0.9018

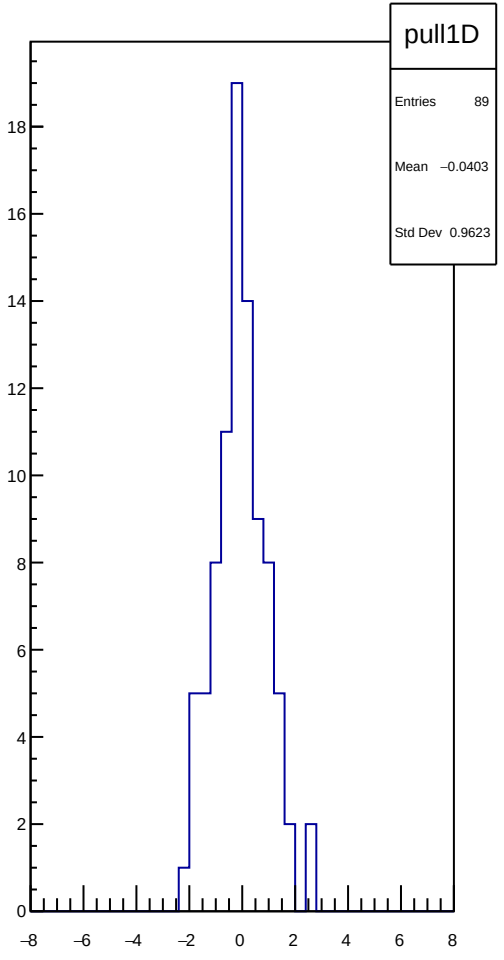

diff_bpm11Y_rms vs run
χ^2 / ndf 9.961e+04 / 88
p0 5688 ± 4.504
7000
6000
5000
4000
3000
2000

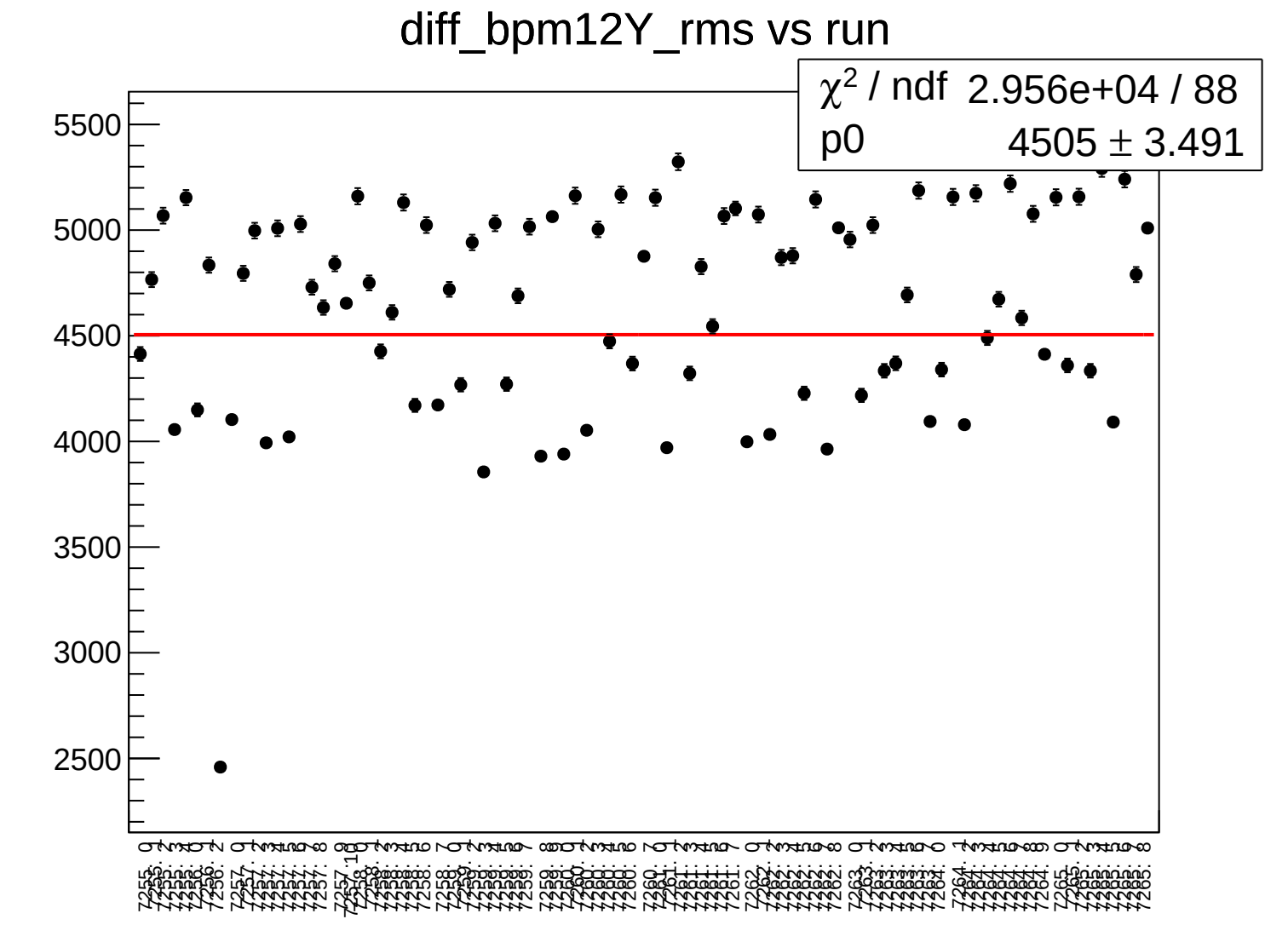

diff_bpm12X_mean vs run
χ^2 / ndf 86.71 / 88
p0 28.11 ± 38.29
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean 3440
Std Dev 0
2
1
0
−1
−2
−3

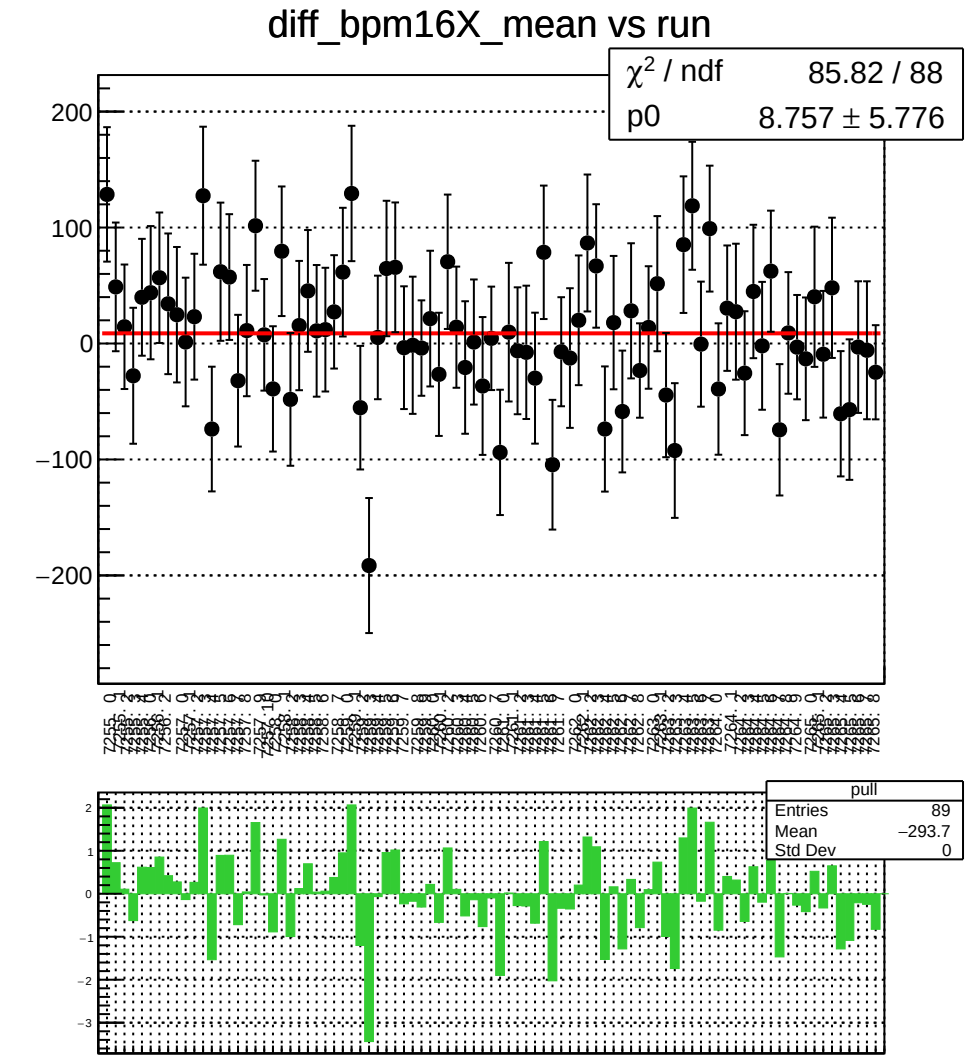

pull1D
Entries 89
Mean −0.001191
Std Dev 0.9871
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

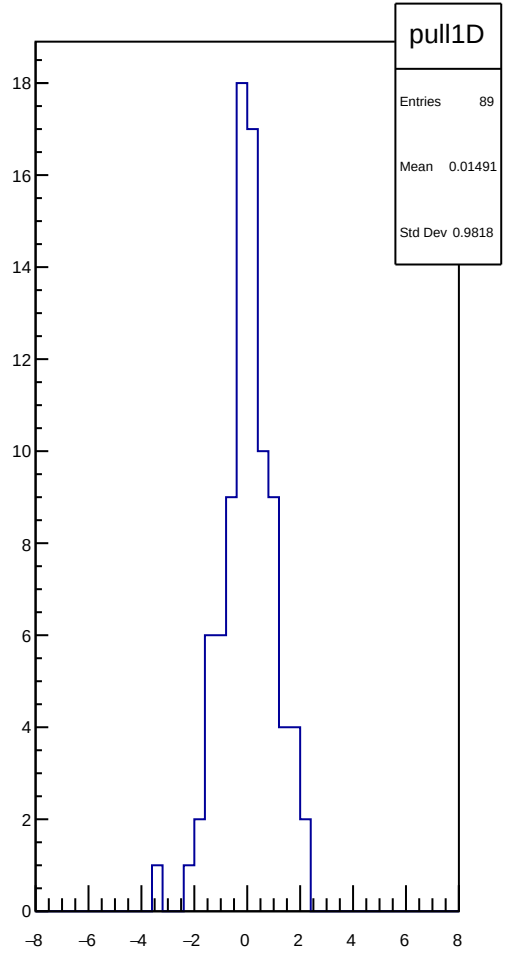

diff_bpm12X_rms vs run
χ² / ndf 7553 / 88
p0 3.517e+04 ± 27.07
42000
40000
38000
36000
34000
32000
30000

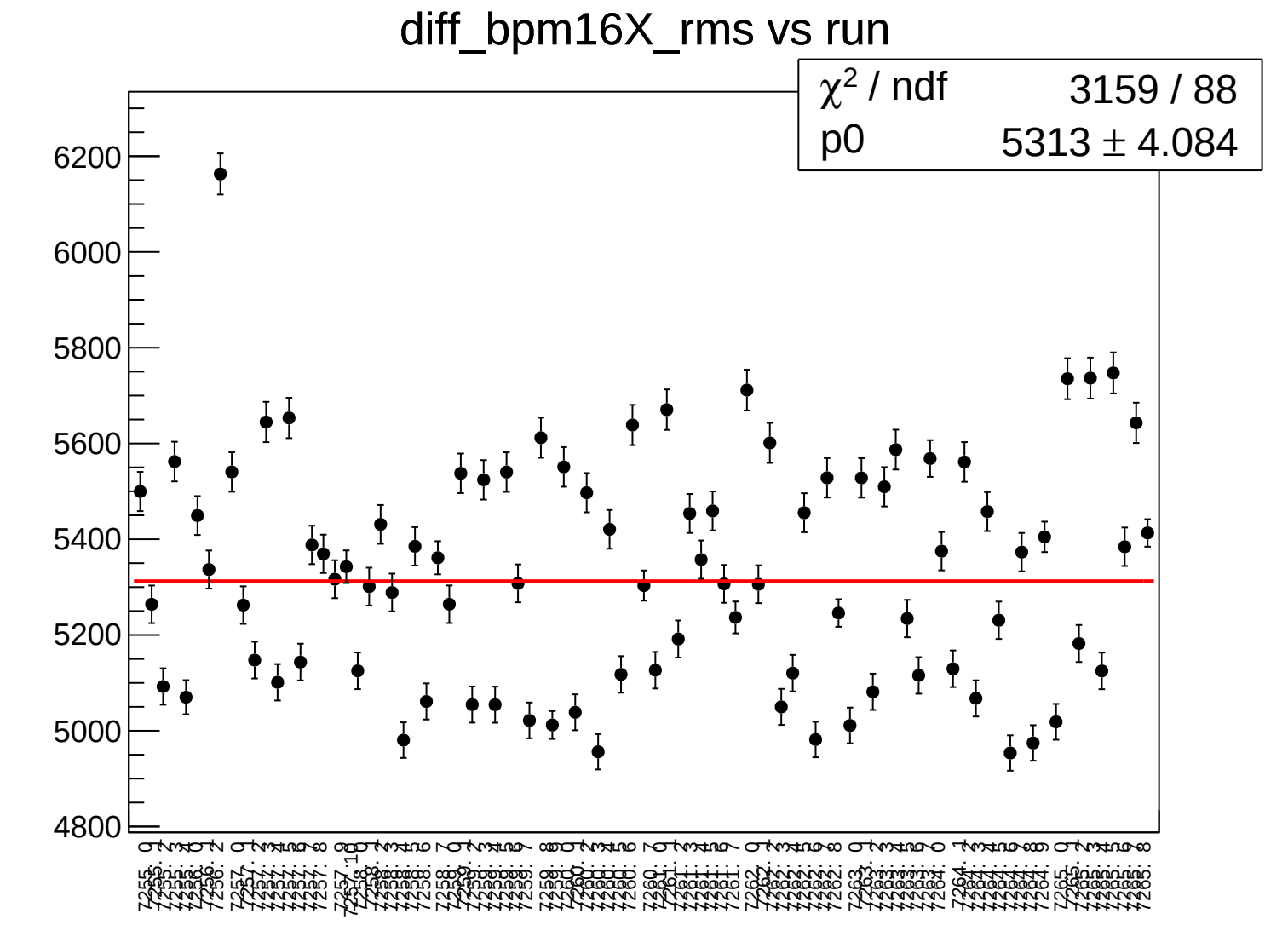

diff_bpm12Y_mean vs run
χ² / ndf 82.56 / 88
p0 −3.218 ± 4.937
pull
Entries 89
Mean 27.69
Std Dev 43.5

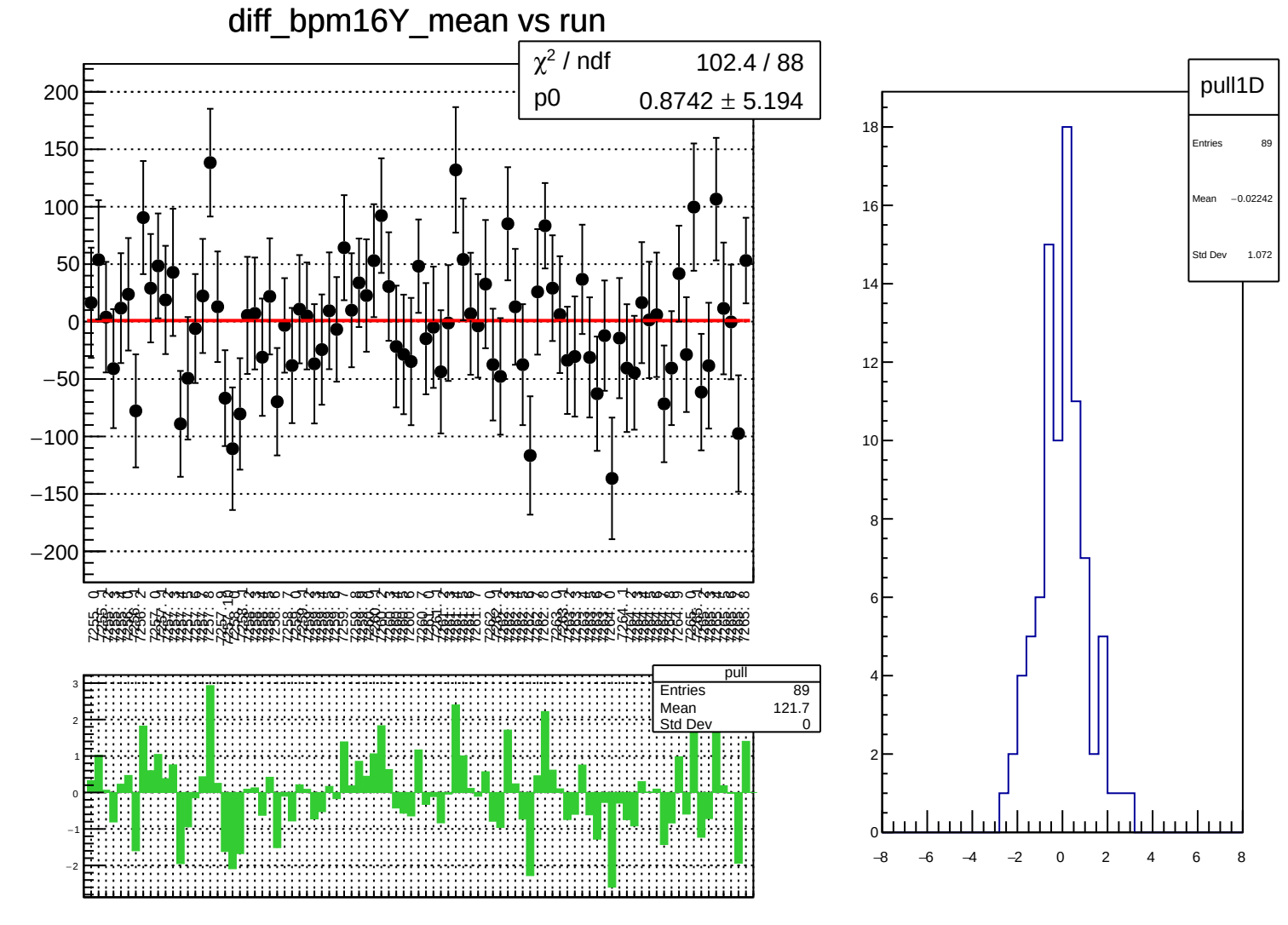

pull1D
Entries 89
Mean −0.0403
Std Dev 0.9623

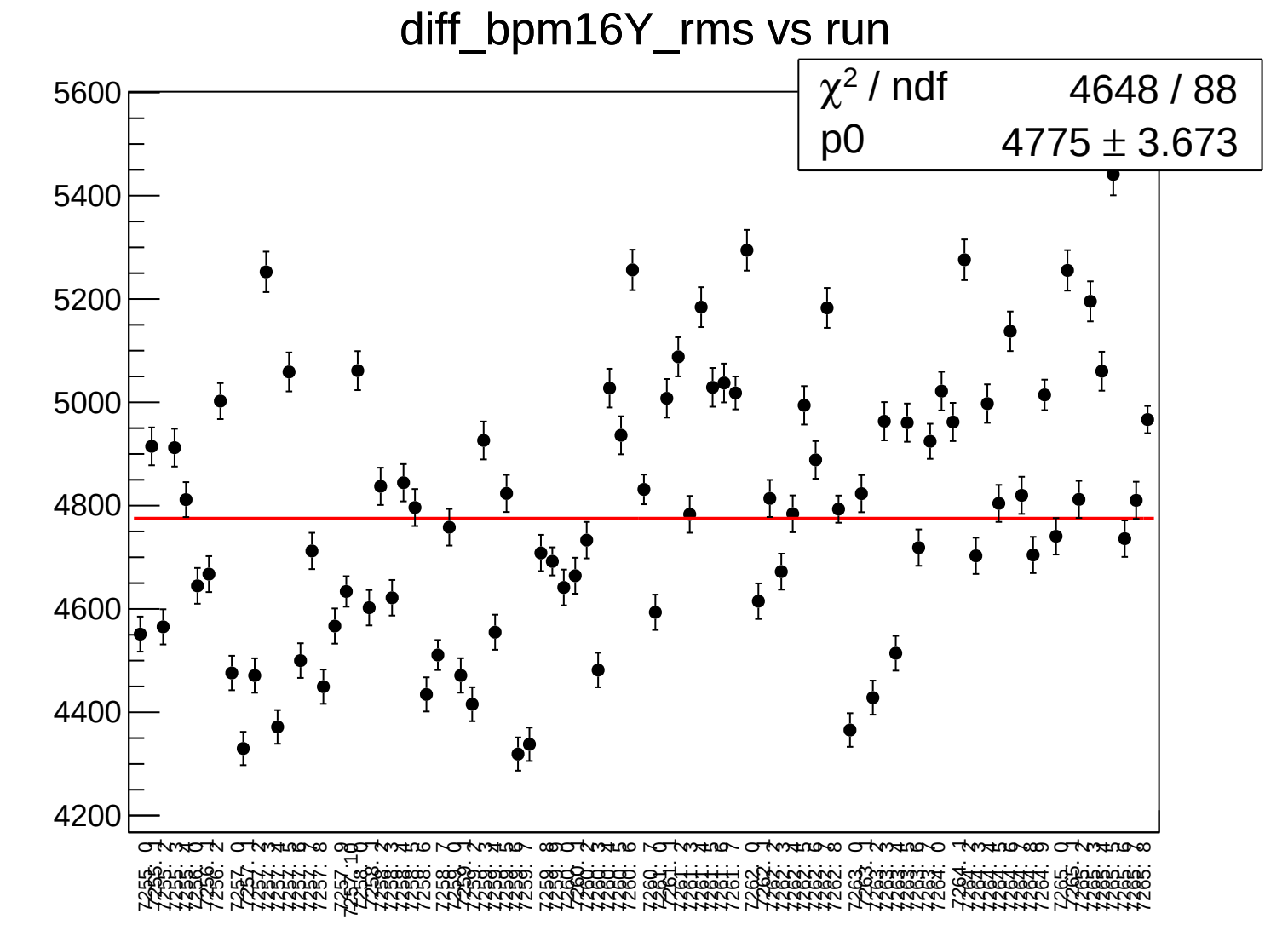

diff_bpm12Y_rms vs run
χ^2 / ndf 2.956e+04 / 88
p0 4505 ± 3.491
5500
5000
4500
4000
3500
3000
2500

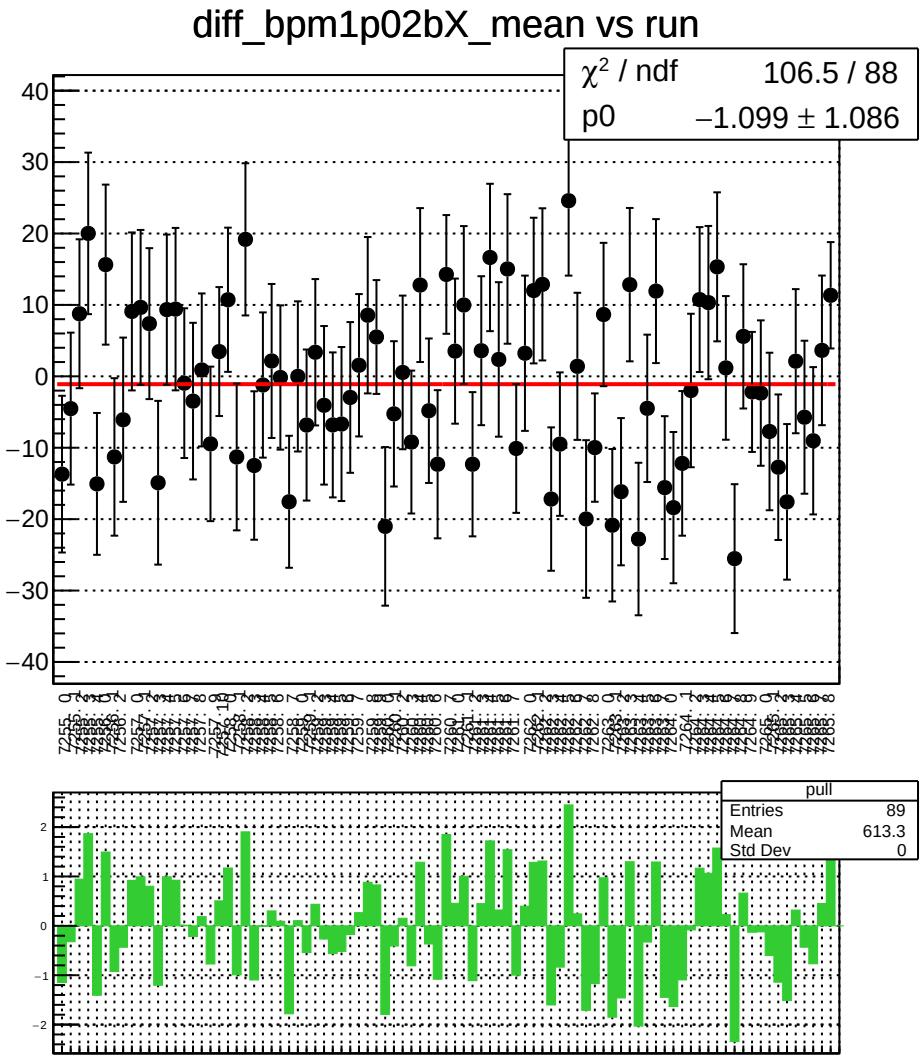

diff_bpm16X_mean vs run
χ² / ndf 85.82 / 88
p0 8.757 ± 5.776
200
100
0
−100
−200
pull
Entries 89
Mean −293.7
Std Dev 0
2
1
0
−1
−2
−3

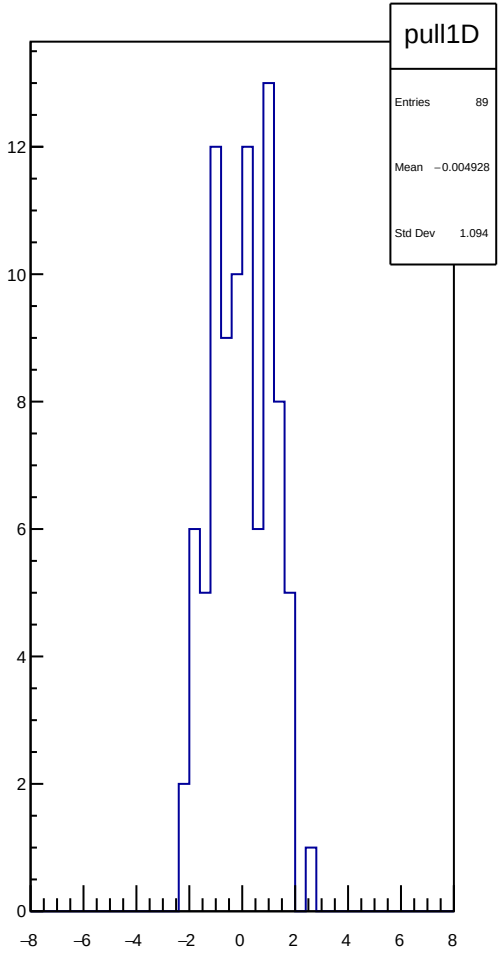

pull1D
Entries 89
Mean 0.01491
Std Dev 0.9818
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

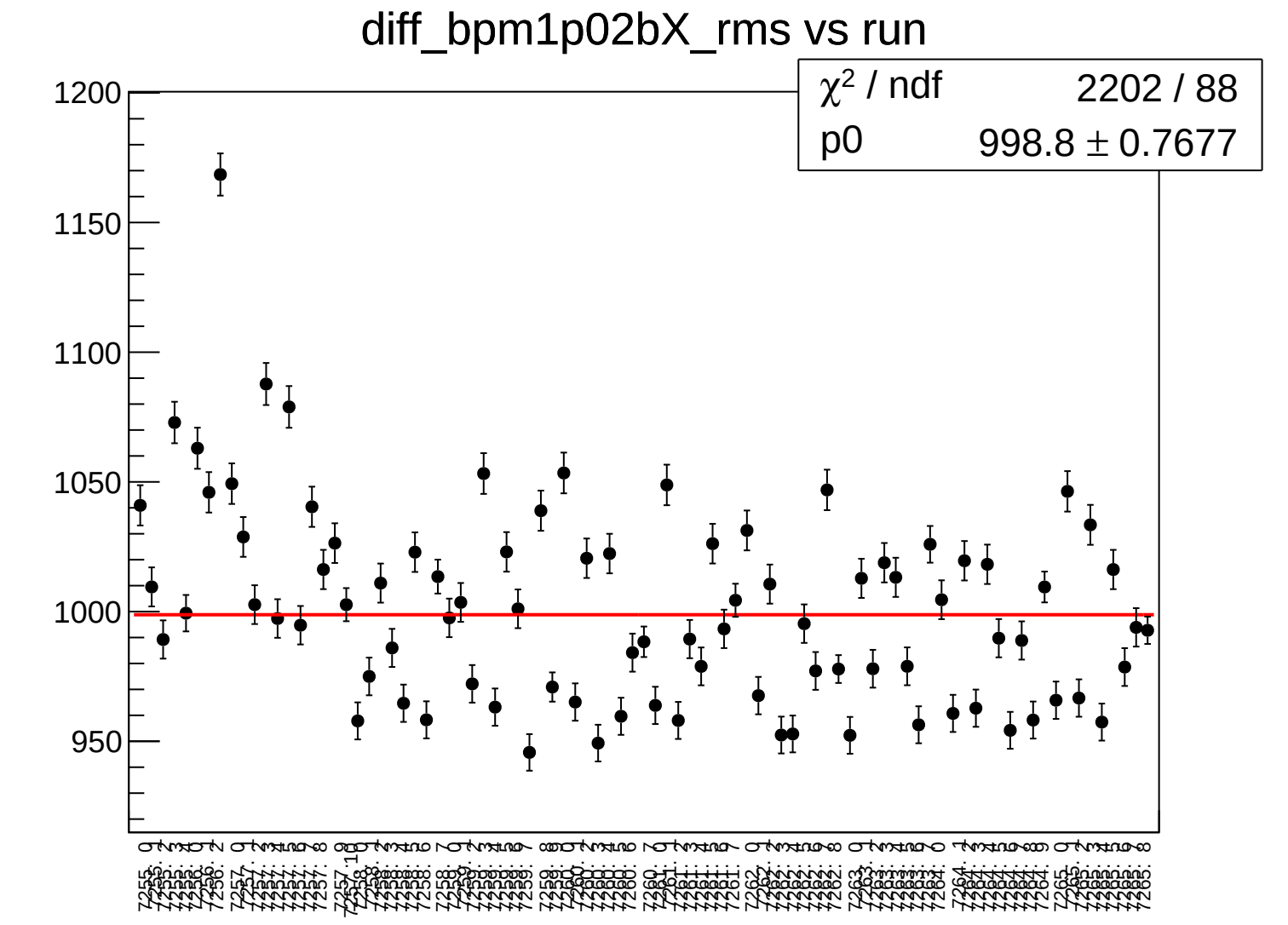

diff_bpm16X_rms vs run
χ² / ndf 3159 / 88
p0 5313 ± 4.084
6200
6000
5800
5600
5400
5200
5000
4800

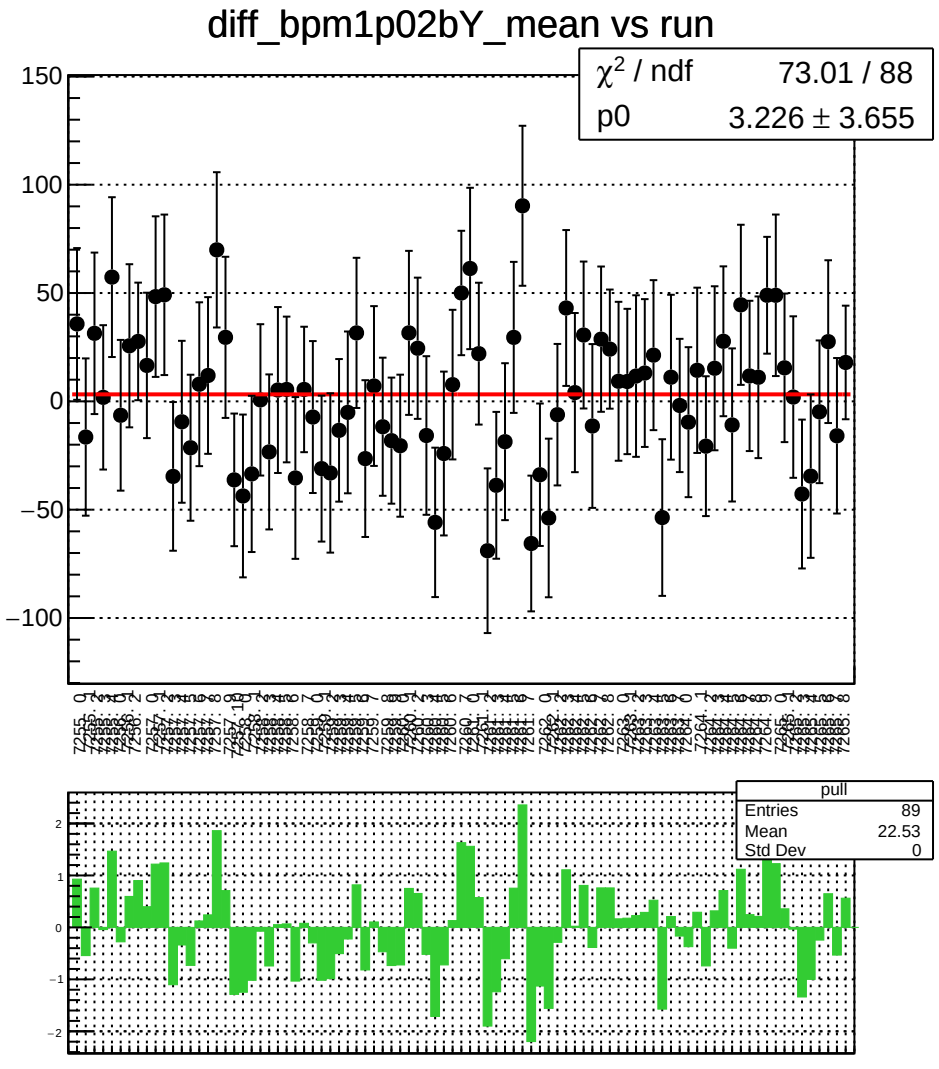

diff_bpm16Y_mean vs run
χ² / ndf 102.4 / 88
p0 0.8742 ± 5.194
pull
Entries 89
Mean 121.7
Std Dev 0
pull1D
Entries 89
Mean −0.02242
Std Dev 1.072

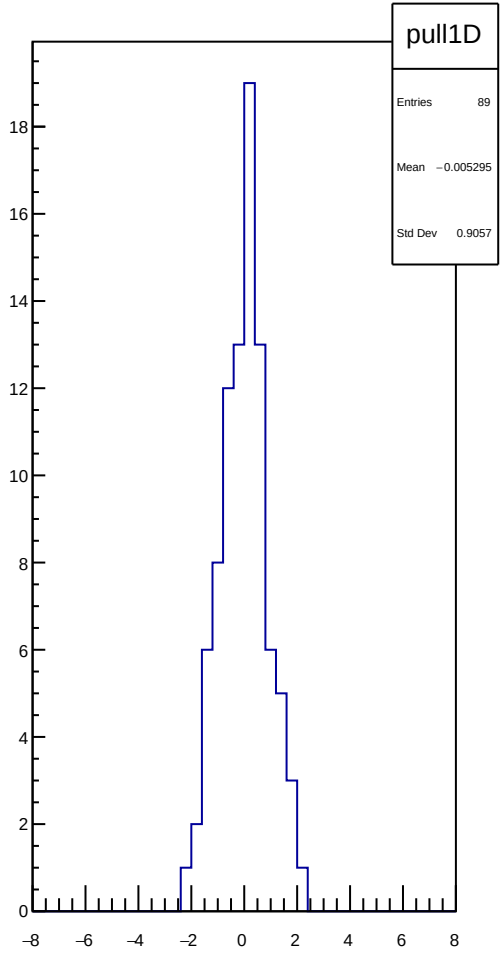

diff_bpm16Y_rms vs run
χ² / ndf 4648 / 88
p0 4775 ± 3.673
5600
5400
5200
5000
4800
4600
4400
4200

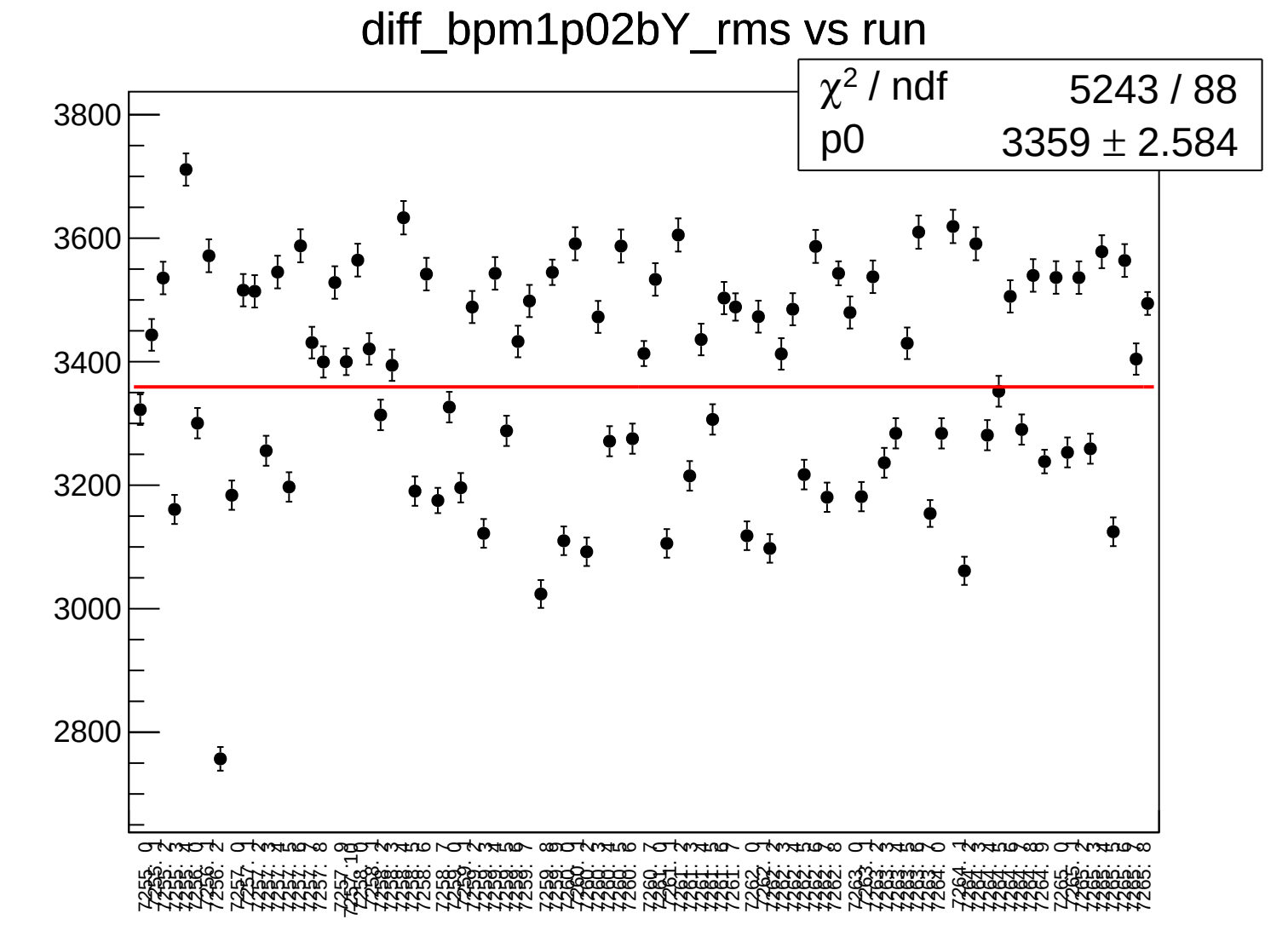

diff_bpm1p02bX_mean vs run
χ² / ndf 106.5 / 88
p0 −1.099 ± 1.086
pull
Entries 89
Mean 613.3
Std Dev 0

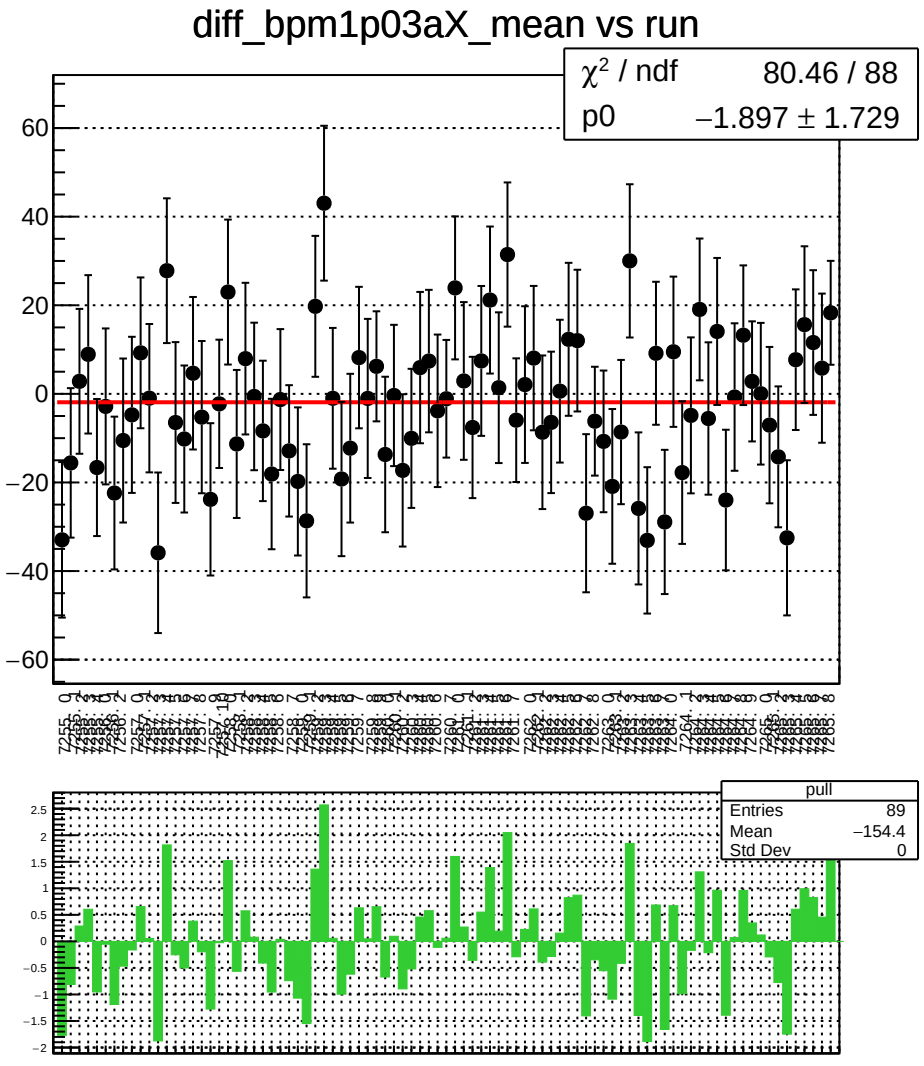

pull1D
Entries 89
Mean −0.004928
Std Dev 1.094

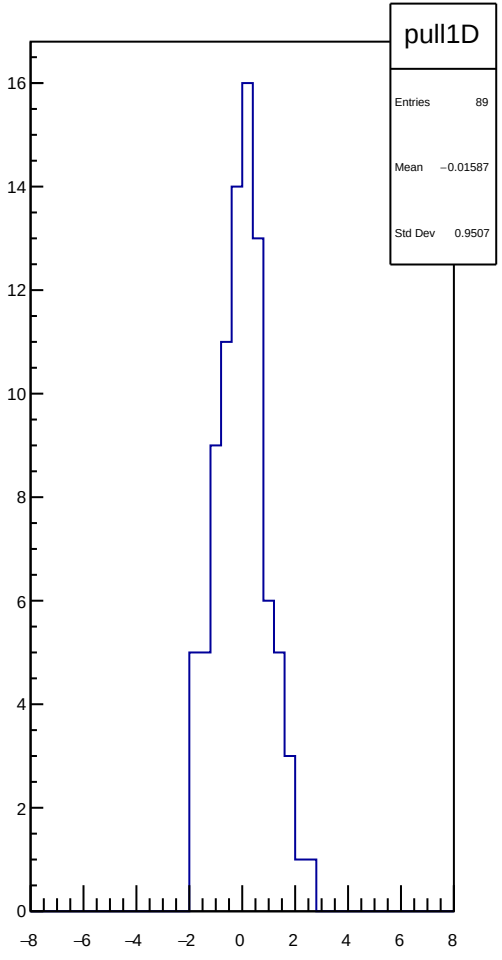

diff_bpm1p02bX_rms vs run
χ² / ndf 2202 / 88
p0 998.8 ± 0.7677
1200
1150
1100
1050
1000
950

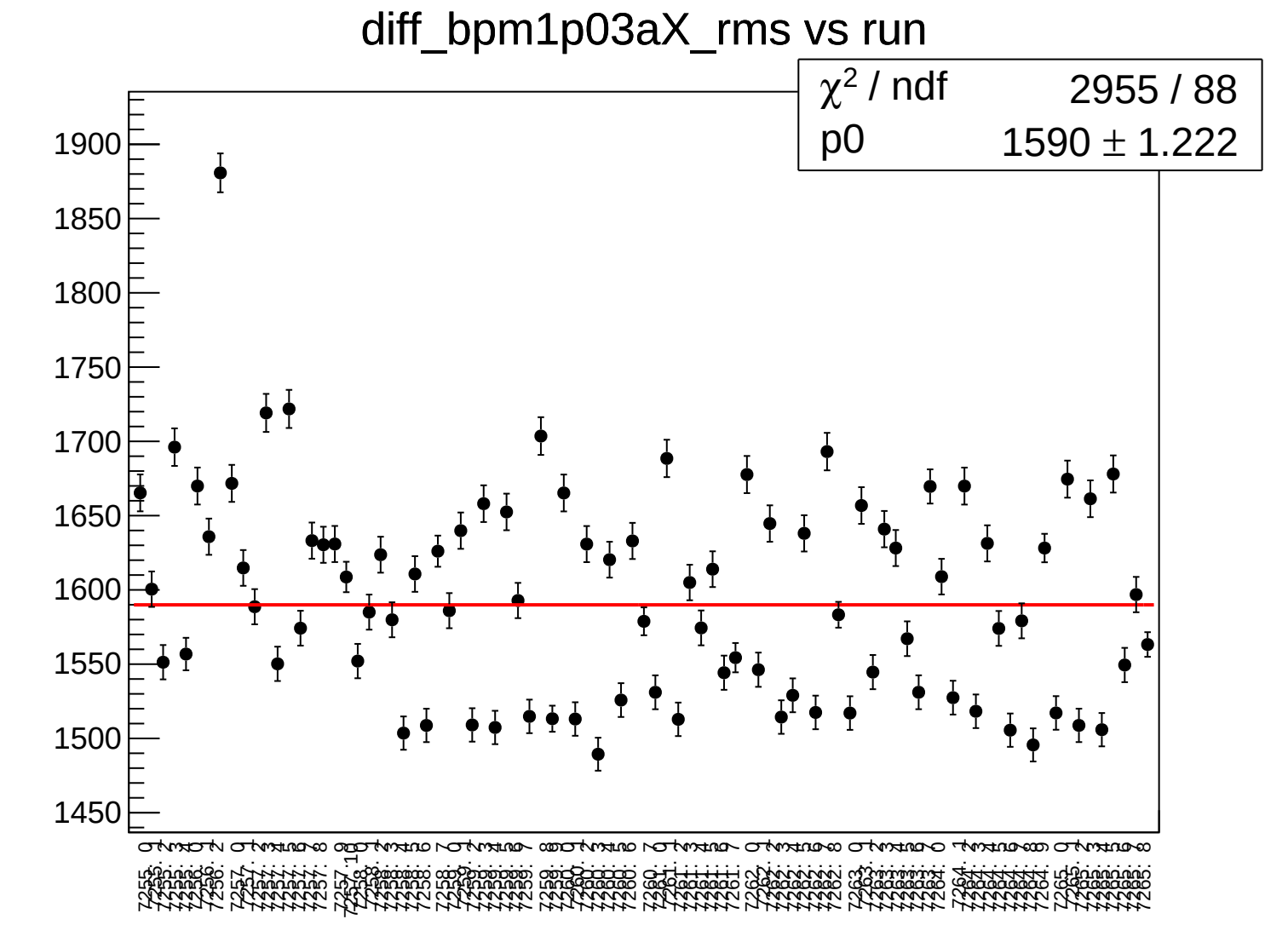

diff_bpm1p02bY_mean vs run
χ² / ndf 73.01 / 88
p0 3.226 ± 3.655
150
100
50
0
−50
−100
pull
Entries 89
Mean 22.53
Std Dev 0
2
1
0
−1
−2

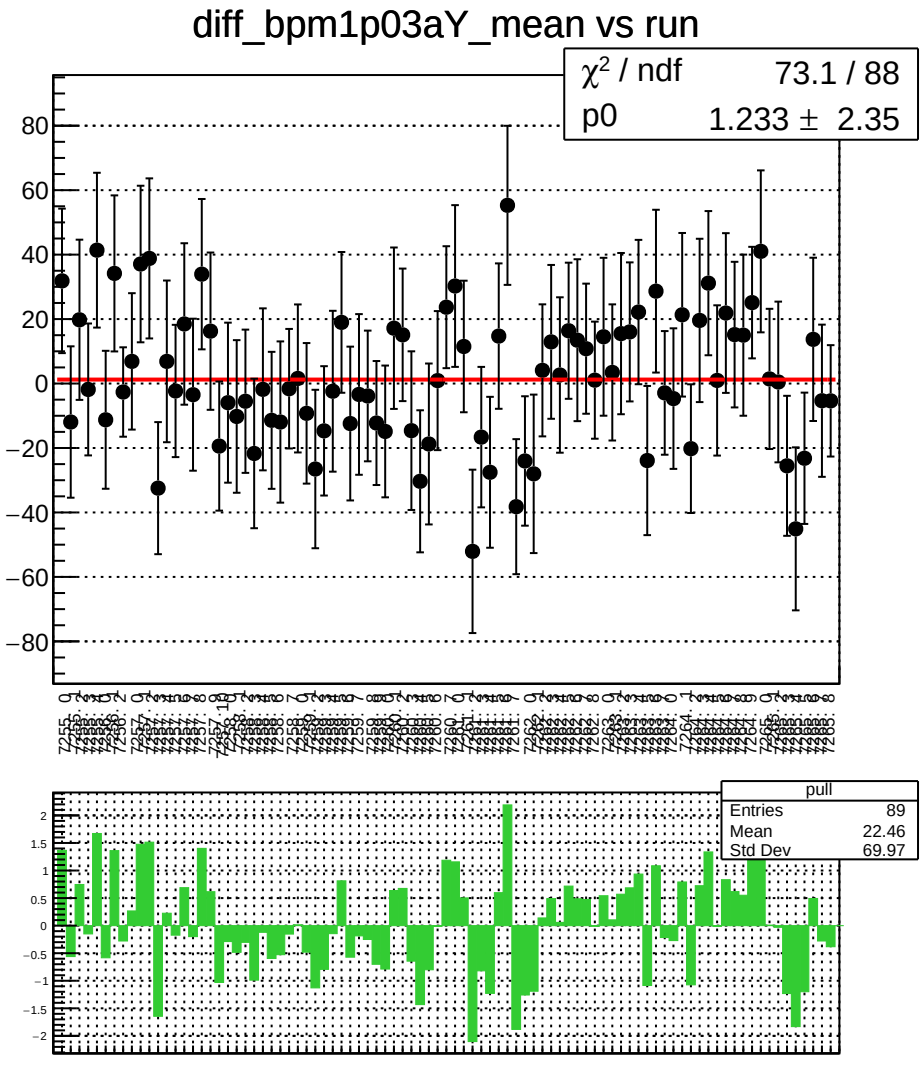

pull1D
Entries 89
Mean −0.005295
Std Dev 0.9057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

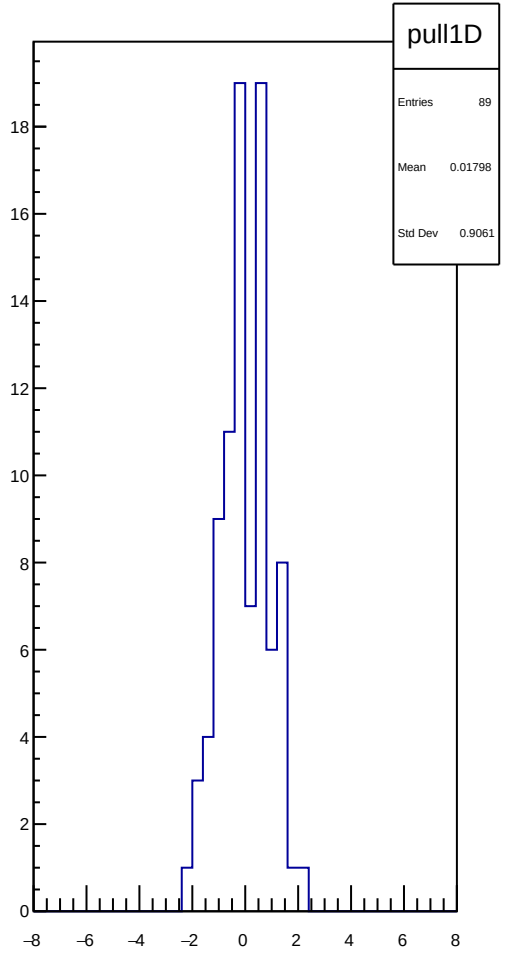

diff_bpm1p02bY_rms vs run
χ² / ndf 5243 / 88
p0 3359 ± 2.584
3800
3600
3400
3200
3000
2800

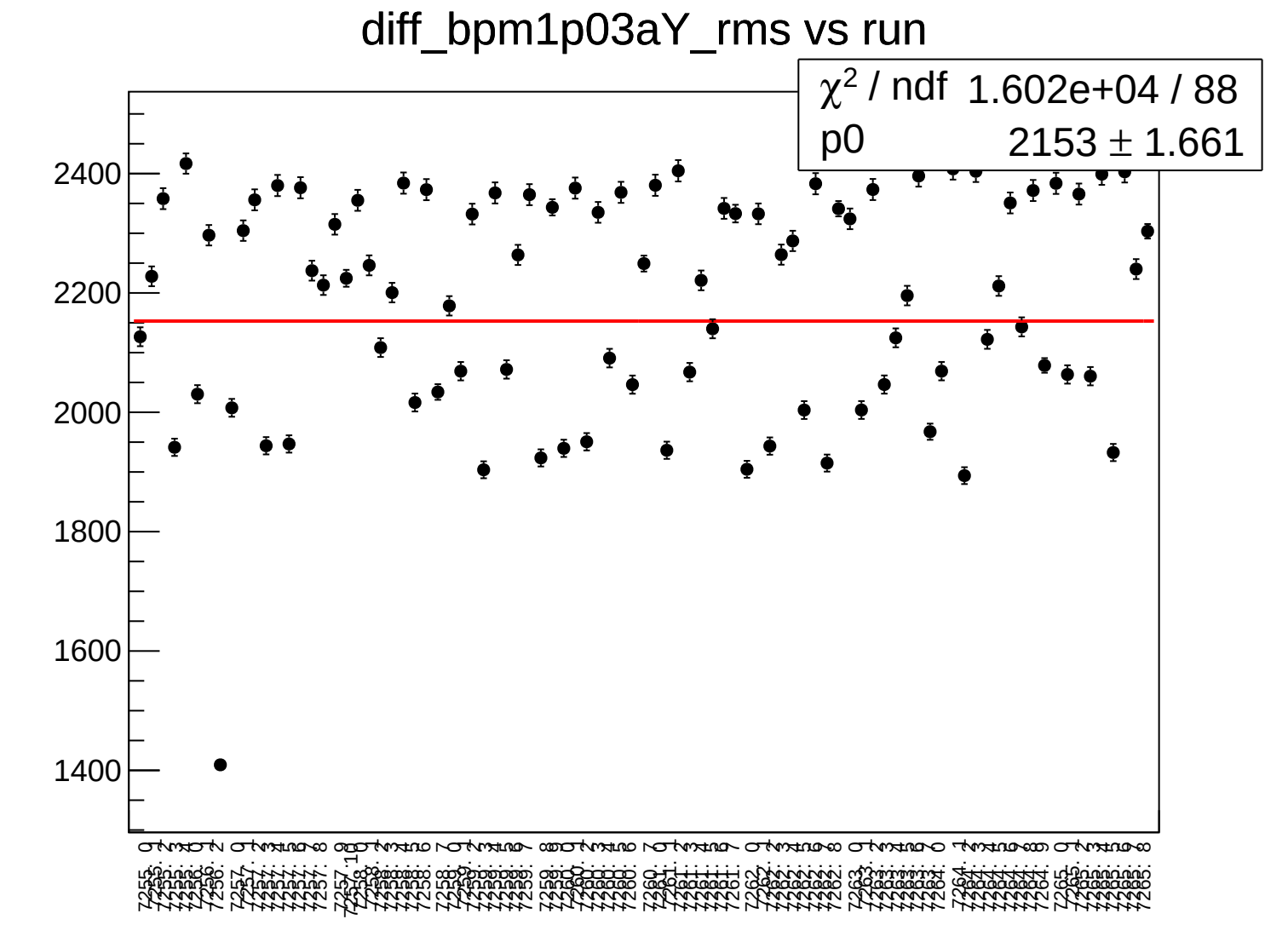

diff_bpm1p03aX_mean vs run
χ² / ndf 80.46 / 88
p0 −1.897 ± 1.729
pull
Entries 89
Mean −154.4
Std Dev 0

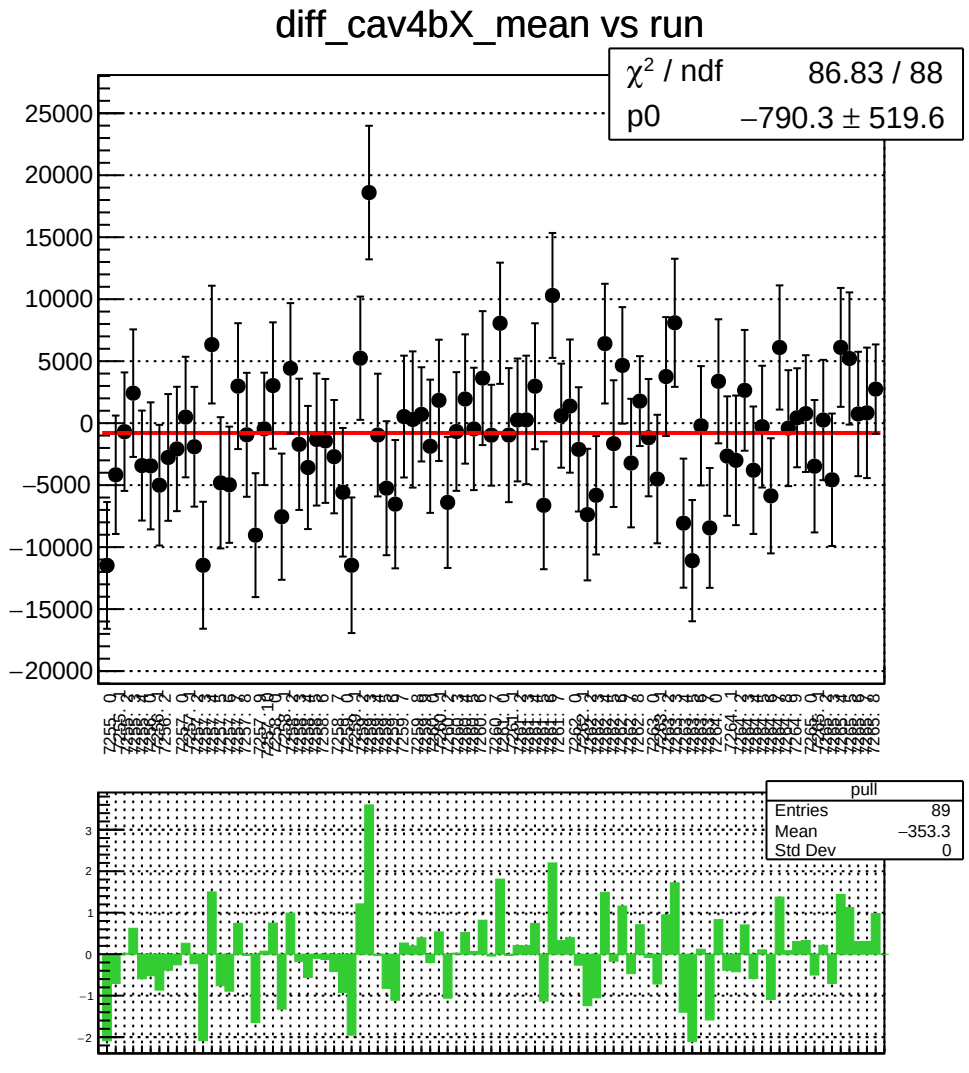

pull1D
Entries 89
Mean −0.01587
Std Dev 0.9507

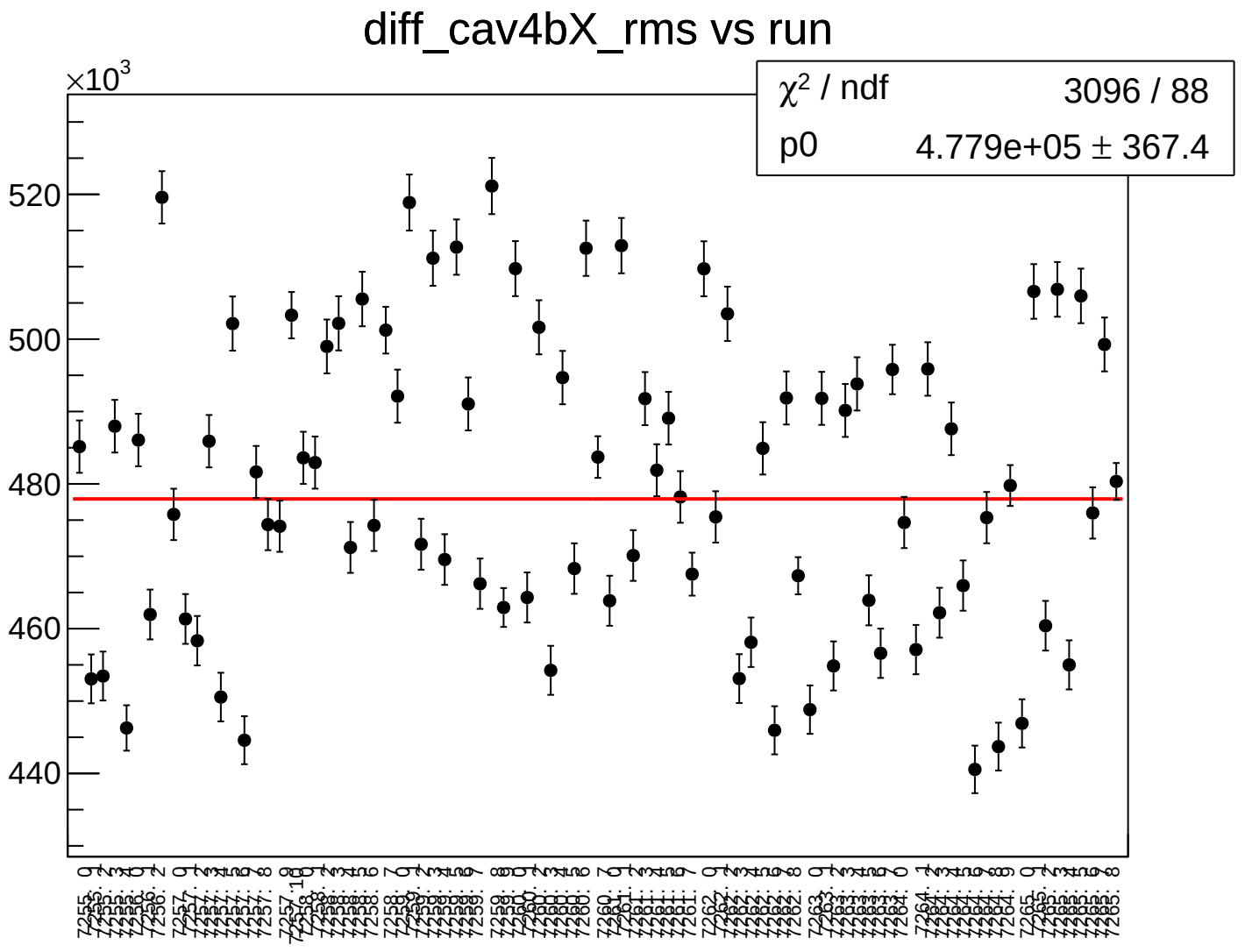

diff_bpm1p03aX_rms vs run
χ² / ndf 2955 / 88
p0 1590 ± 1.222
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

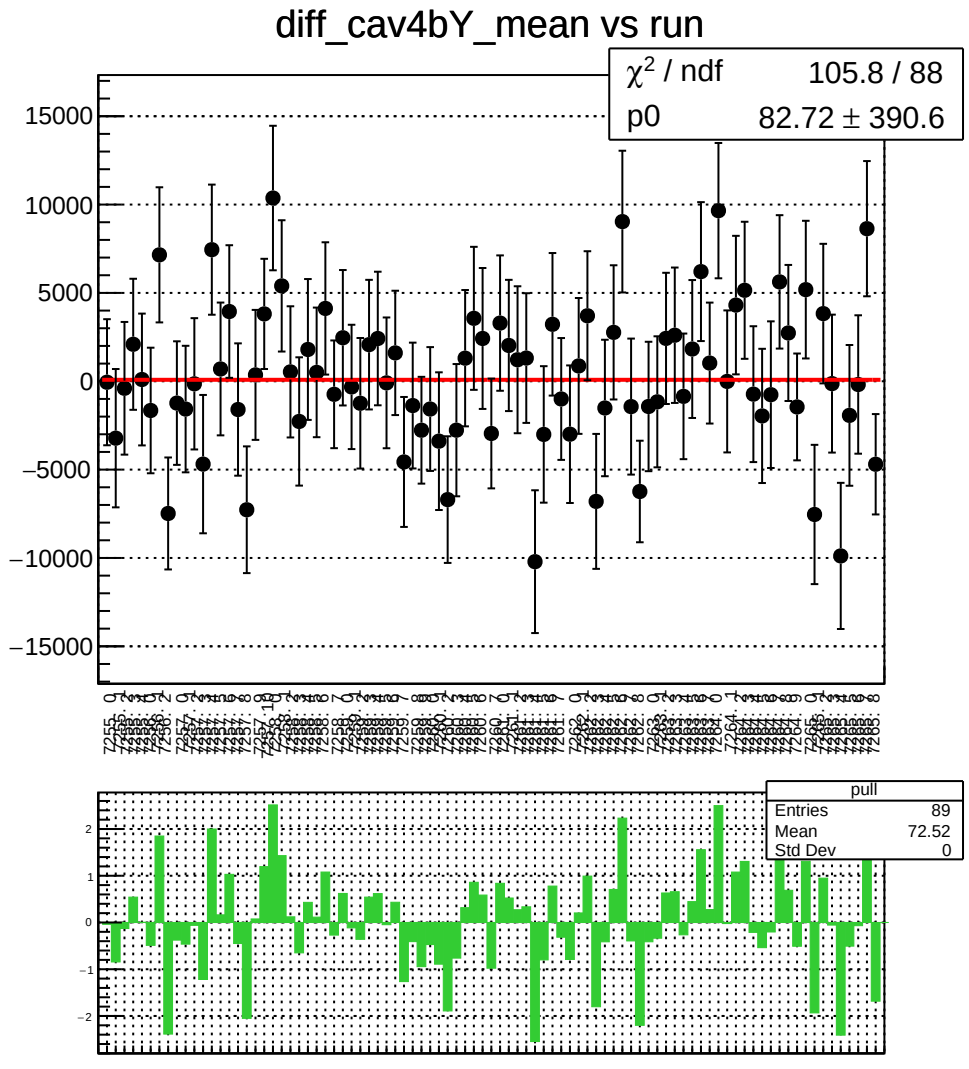

diff_bpm1p03aY_mean vs run
χ² / ndf 73.1 / 88
p0 1.233 ± 2.35
pull
Entries 89
Mean 22.46
Std Dev 69.97

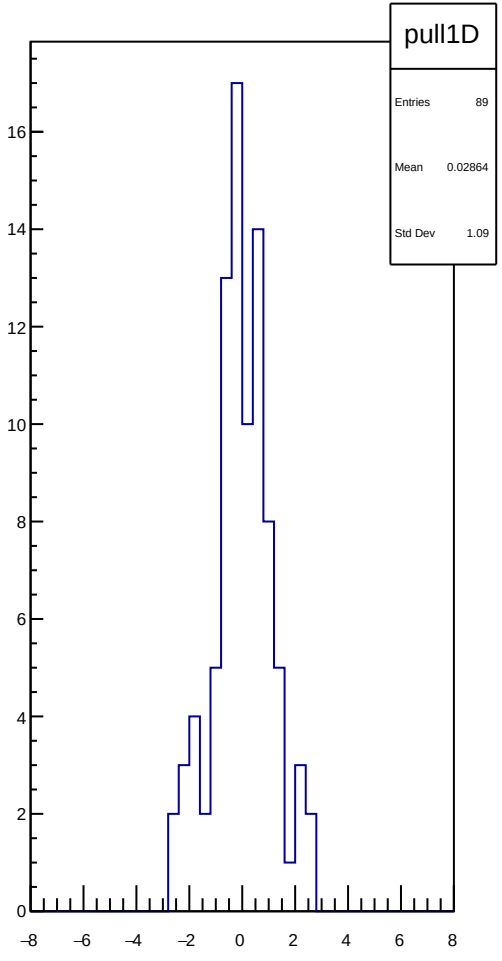

pull1D
Entries 89
Mean 0.01798
Std Dev 0.9061

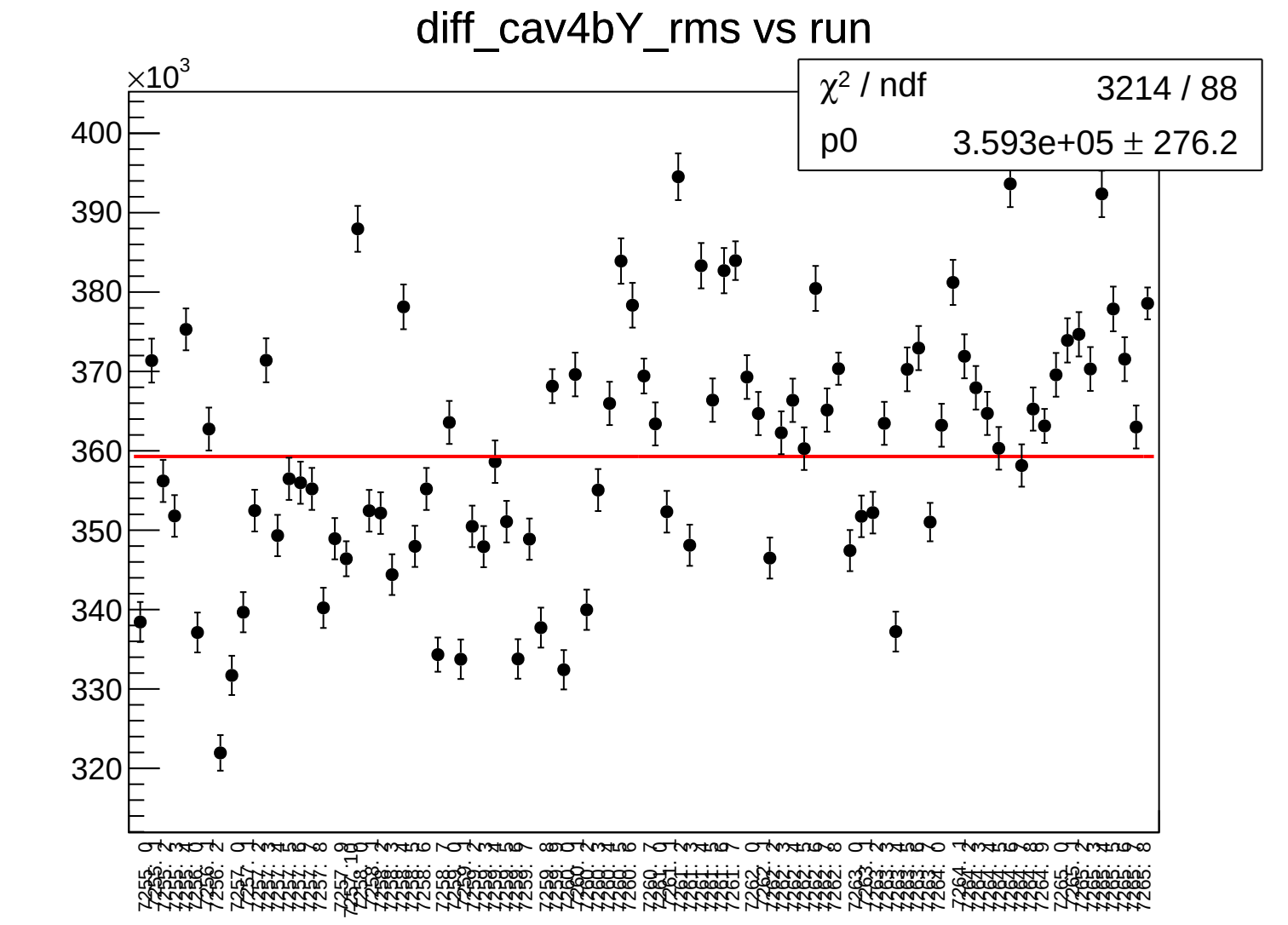

diff_bpm1p03aY_rms vs run
χ² / ndf 1.602e+04 / 88
p0 2153 ± 1.661
2400
2200
2000
1800
1600
1400

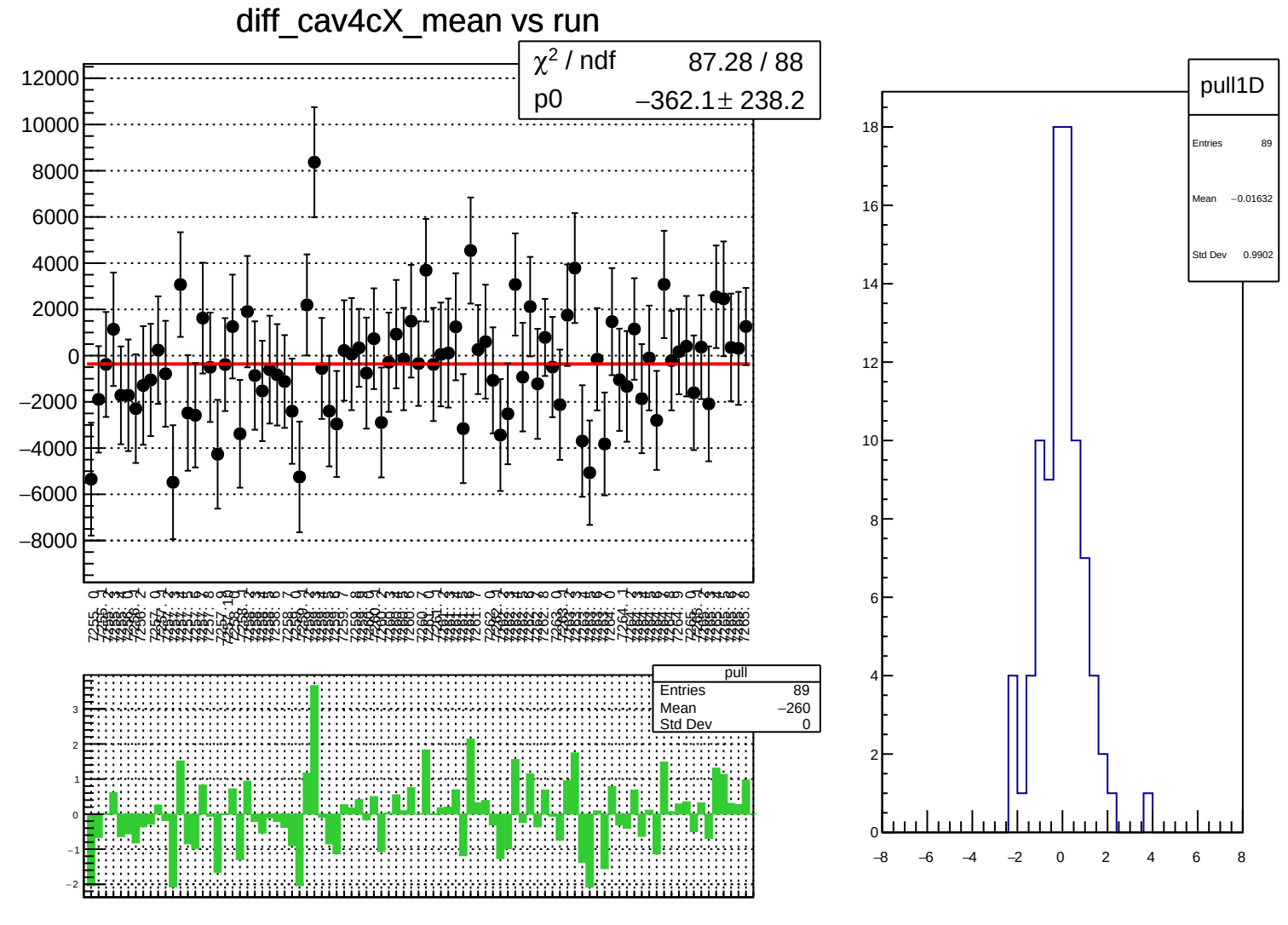

diff_cav4bX_mean vs run
χ² / ndf 86.83 / 88
p0 −790.3 ± 519.6
pull
Entries 89
Mean −353.3
Std Dev 0
pull1D
Entries 89
Mean −0.0122
Std Dev 0.9877

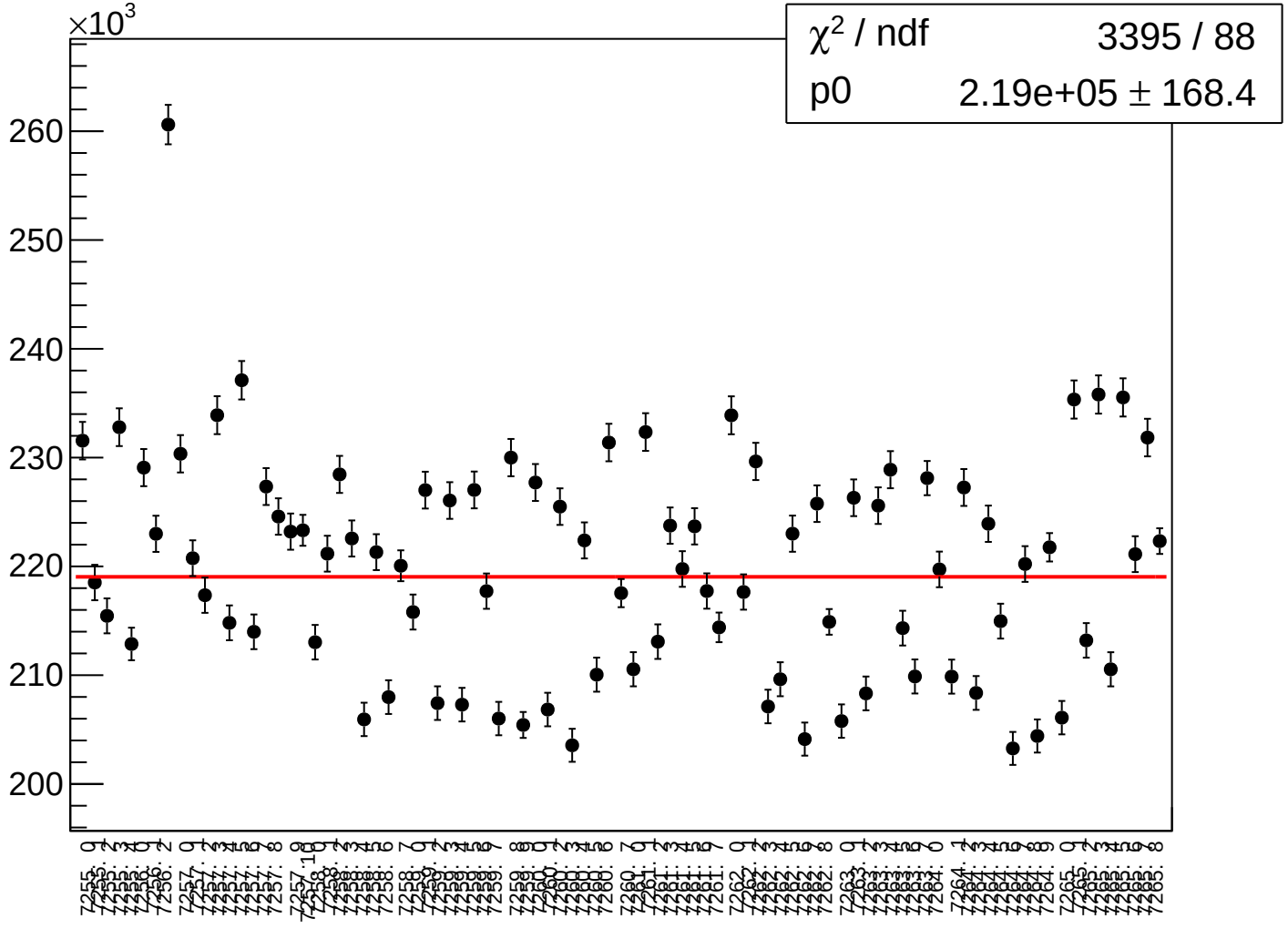

diff_cav4bX_rms vs run
×10^3
520
500
480
460
440
χ² / ndf 3096 / 88
p0 4.779e+05 ± 367.4

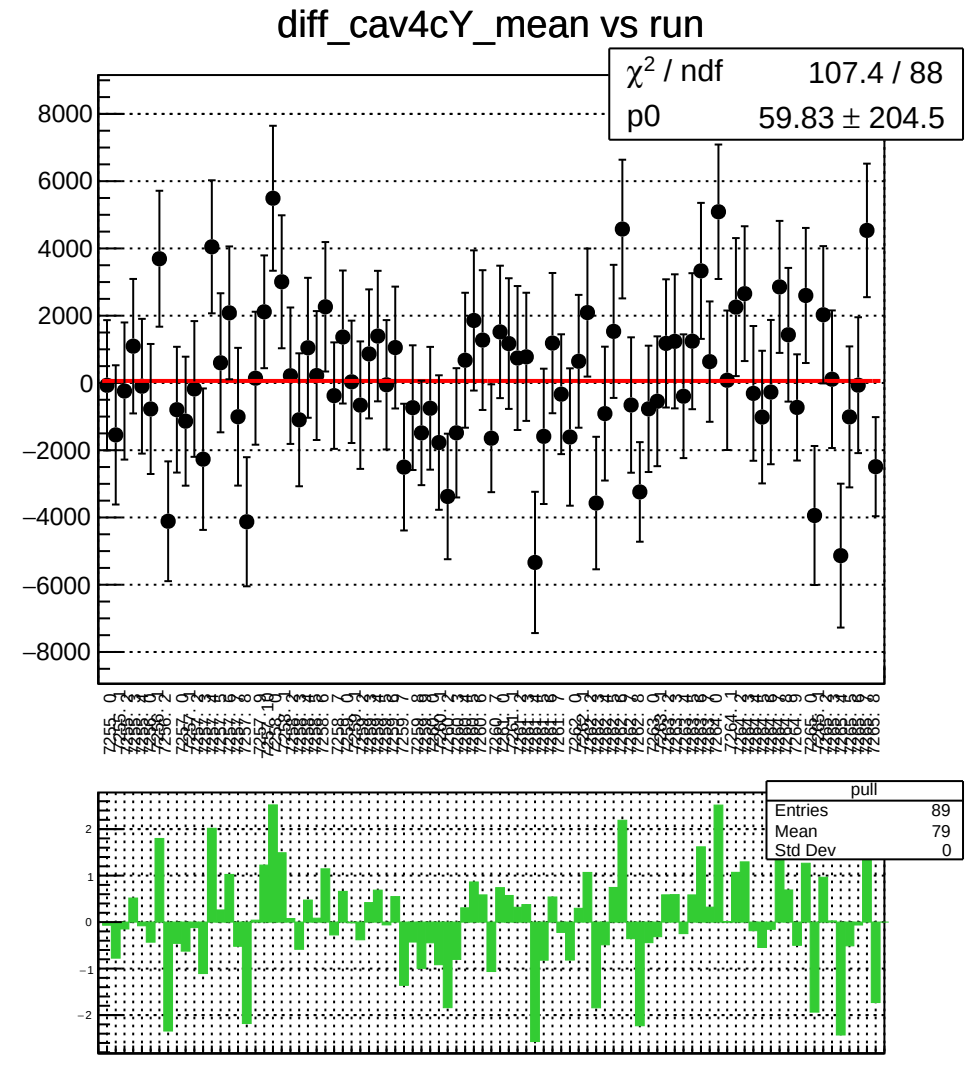

diff_cav4bY_mean vs run
χ² / ndf 105.8 / 88
p0 82.72 ± 390.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 72.52
Std Dev 0
2
1
0
−1
−2

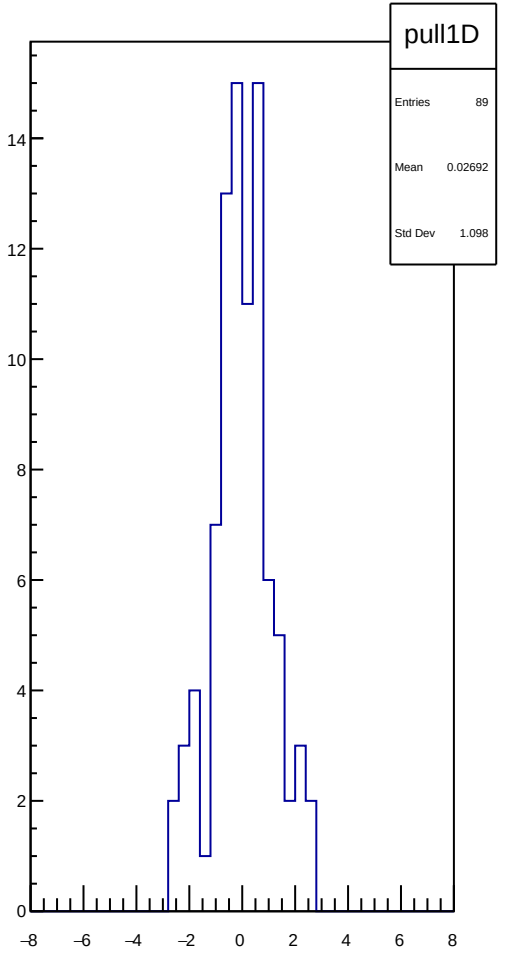

pull1D
Entries 89
Mean 0.02864
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

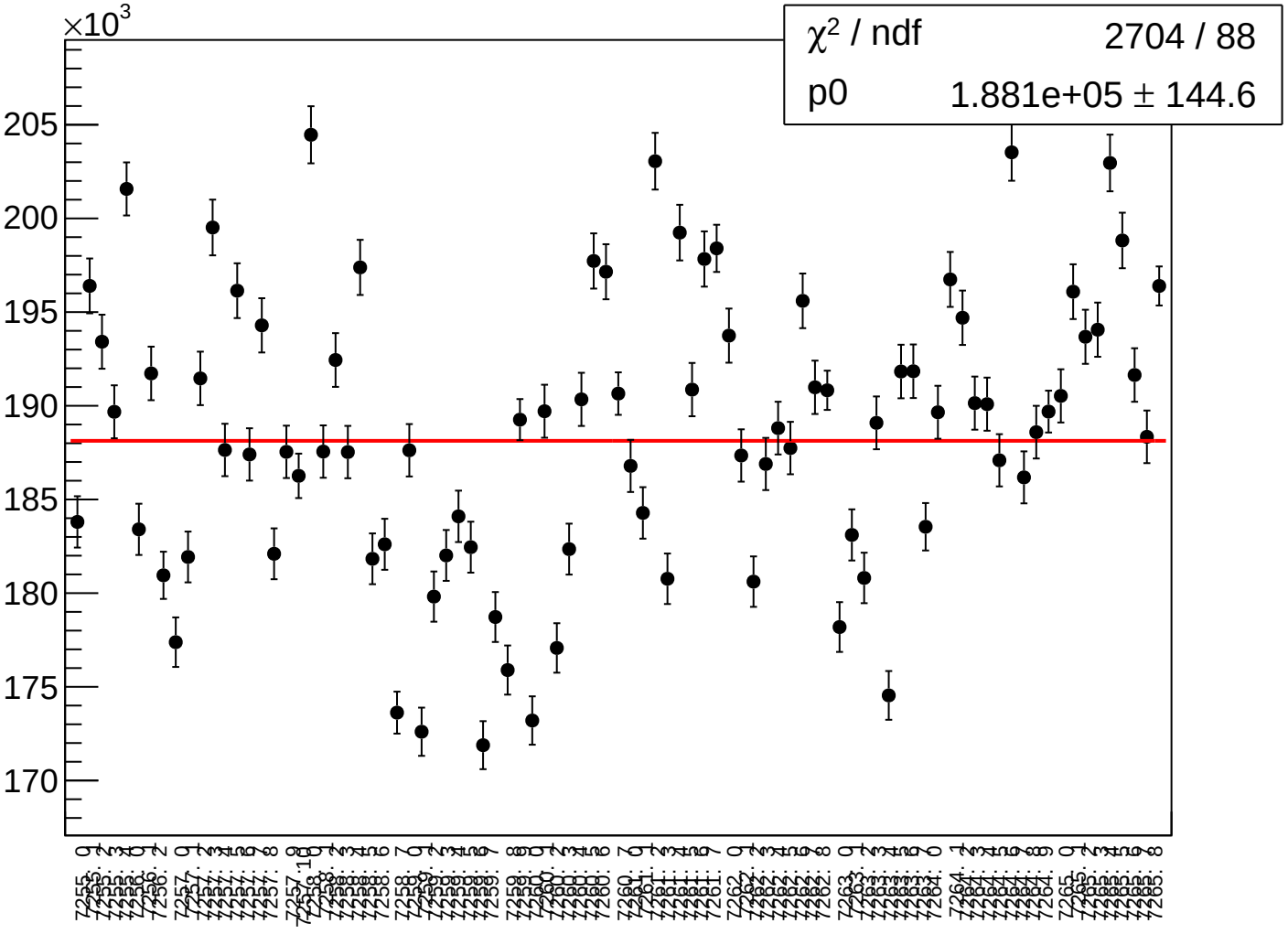

diff_cav4bY_rms vs run
×10^3
400
390
380
370
360
350
340
330
320
χ² / ndf 3214 / 88
p0 3.593e+05 ± 276.2

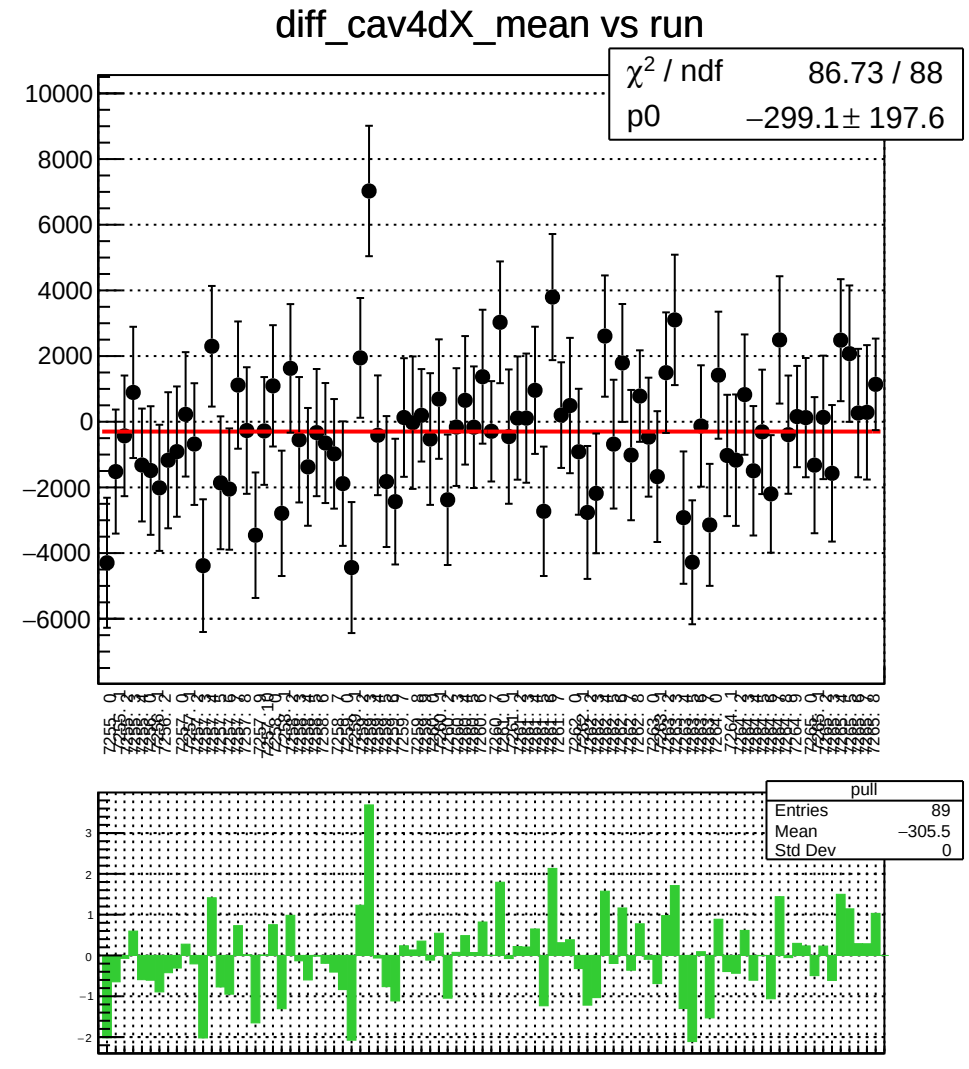

diff_cav4cX_mean vs run
χ² / ndf 87.28 / 88
p0 −362.1± 238.2
pull
Entries 89
Mean −260
Std Dev 0
pull1D
Entries 89
Mean −0.01632
Std Dev 0.9902

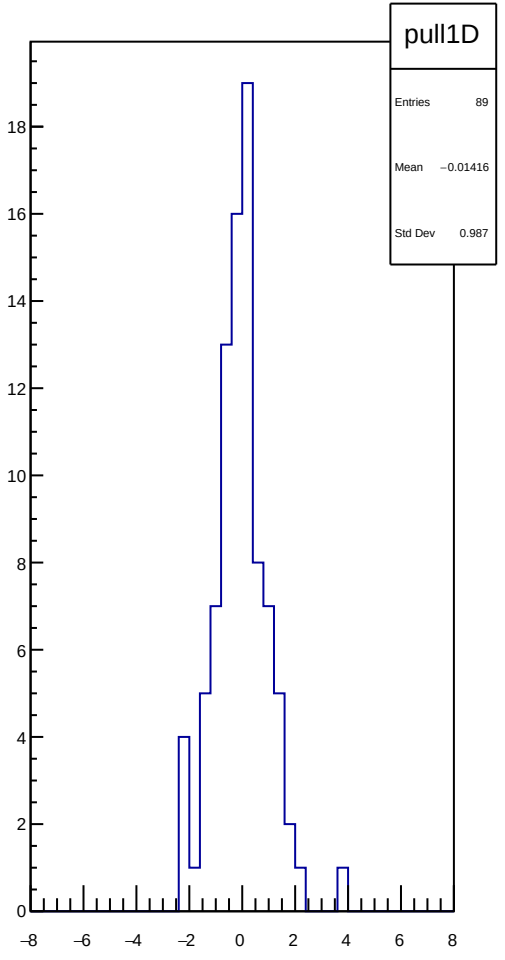

diff_cav4cX_rms vs run
×10^3
χ^2 / ndf 3395 / 88
p0 2.19e+05 ± 168.4
260
250
240
230
220
210
200

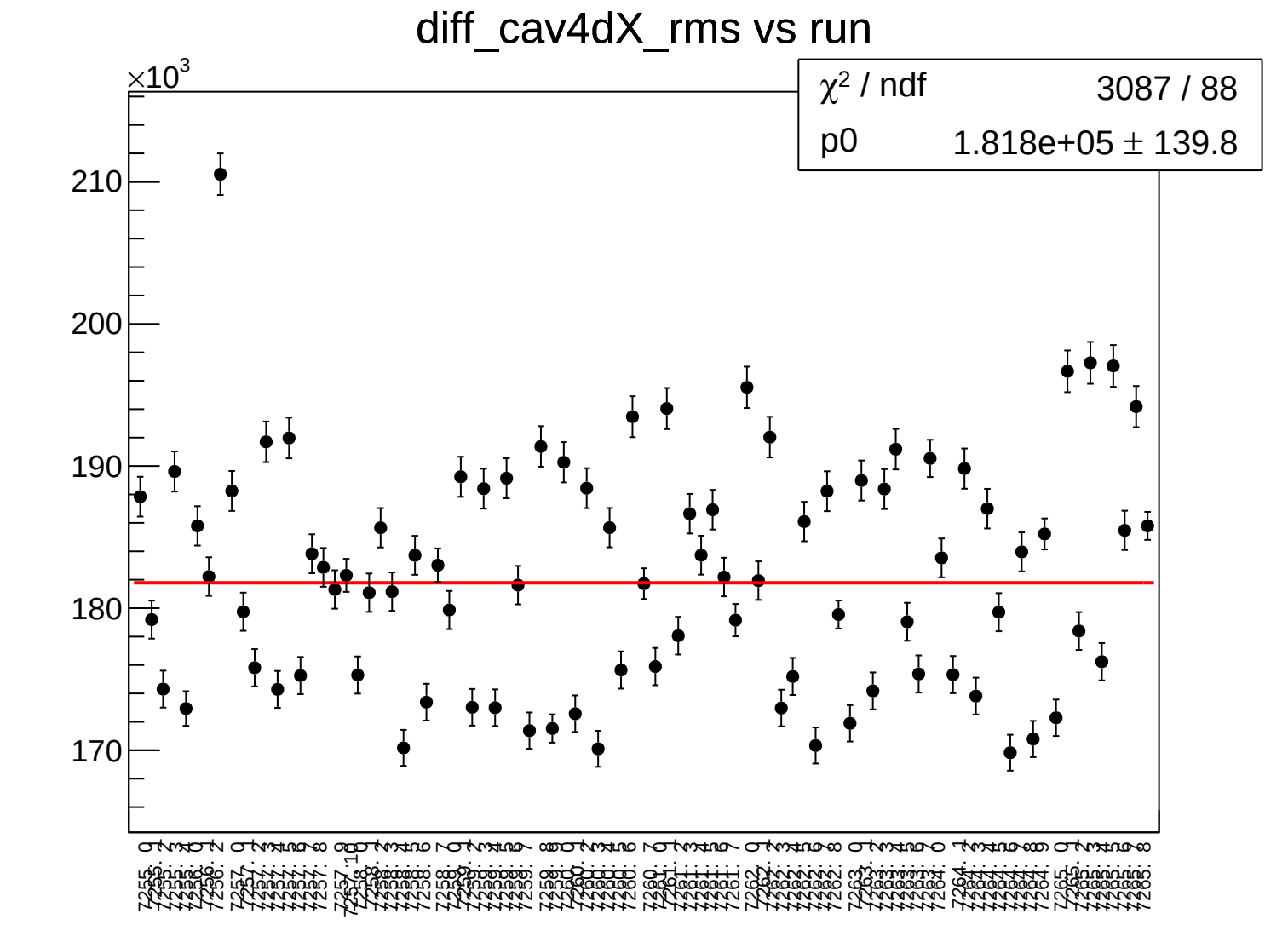

diff_cav4cY_mean vs run
χ² / ndf 107.4 / 88
p0 59.83 ± 204.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean 79
Std Dev 0
2
1
0
−1
−2

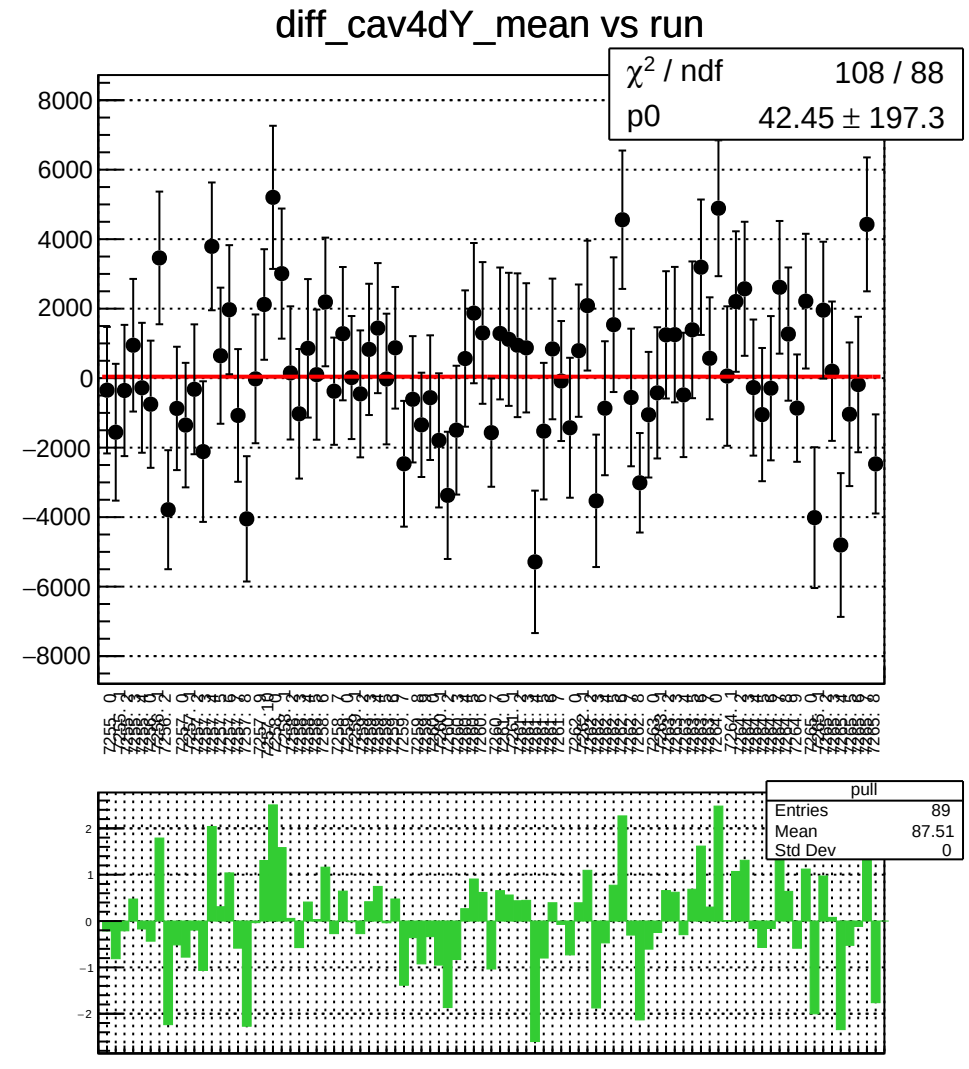

pull1D
Entries 89
Mean 0.02692
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

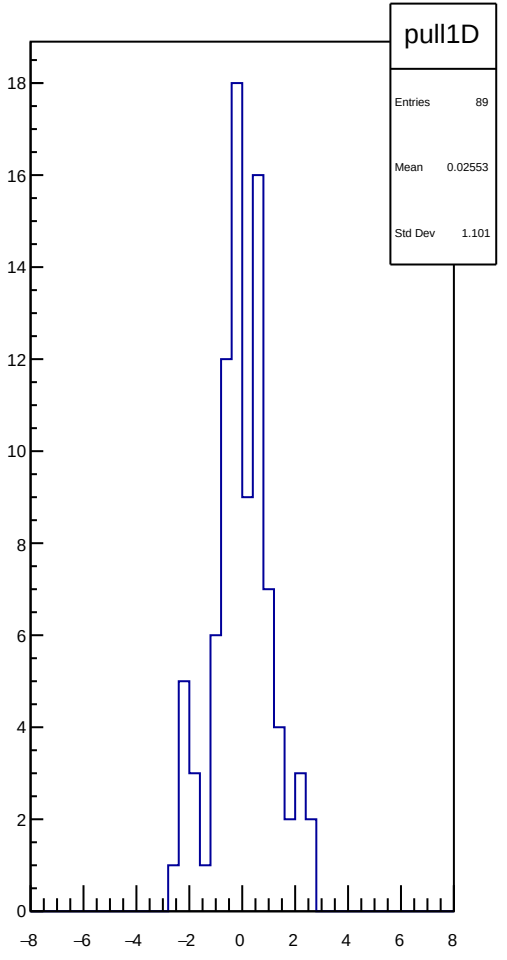

diff_cav4cY_rms vs run
×10^3
205
200
195
190
185
180
175
170
χ² / ndf 2704 / 88
p0 1.881e+05 ± 144.6

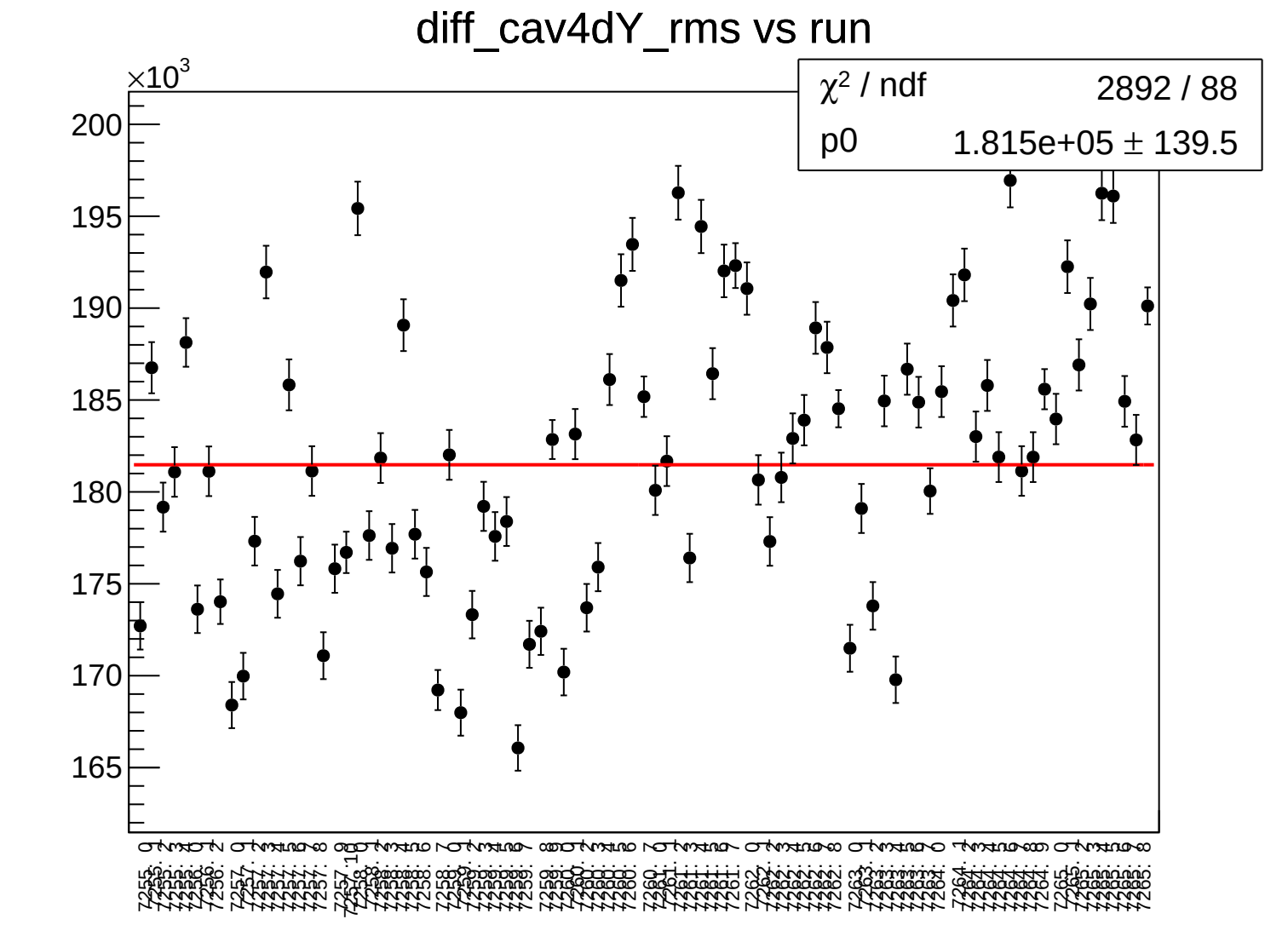

diff_cav4dX_mean vs run
χ² / ndf 86.73 / 88
p0 −299.1± 197.6
pull
Entries 89
Mean −305.5
Std Dev 0

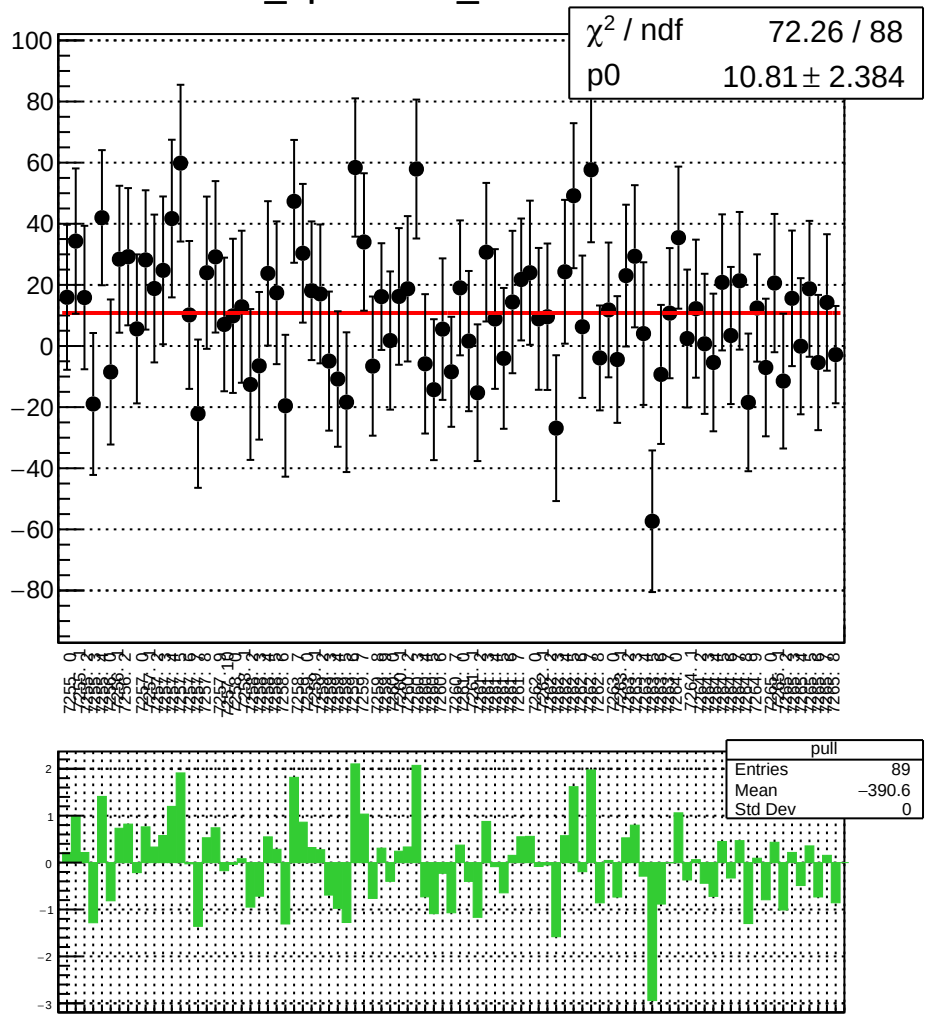

pull1D
Entries 89
Mean −0.01416
Std Dev 0.987

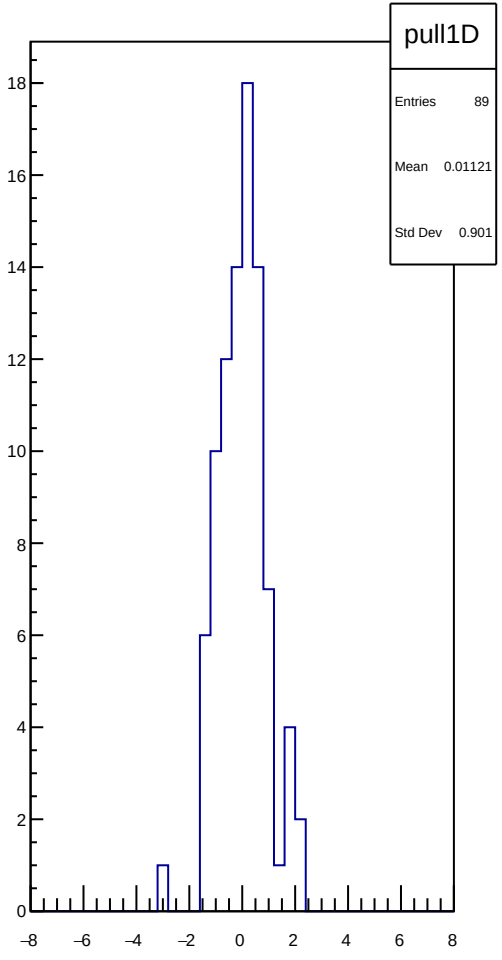

diff_cav4dX_rms vs run
×10^3
χ² / ndf 3087 / 88
p0 1.818e+05 ± 139.8
210
200
190
180
170

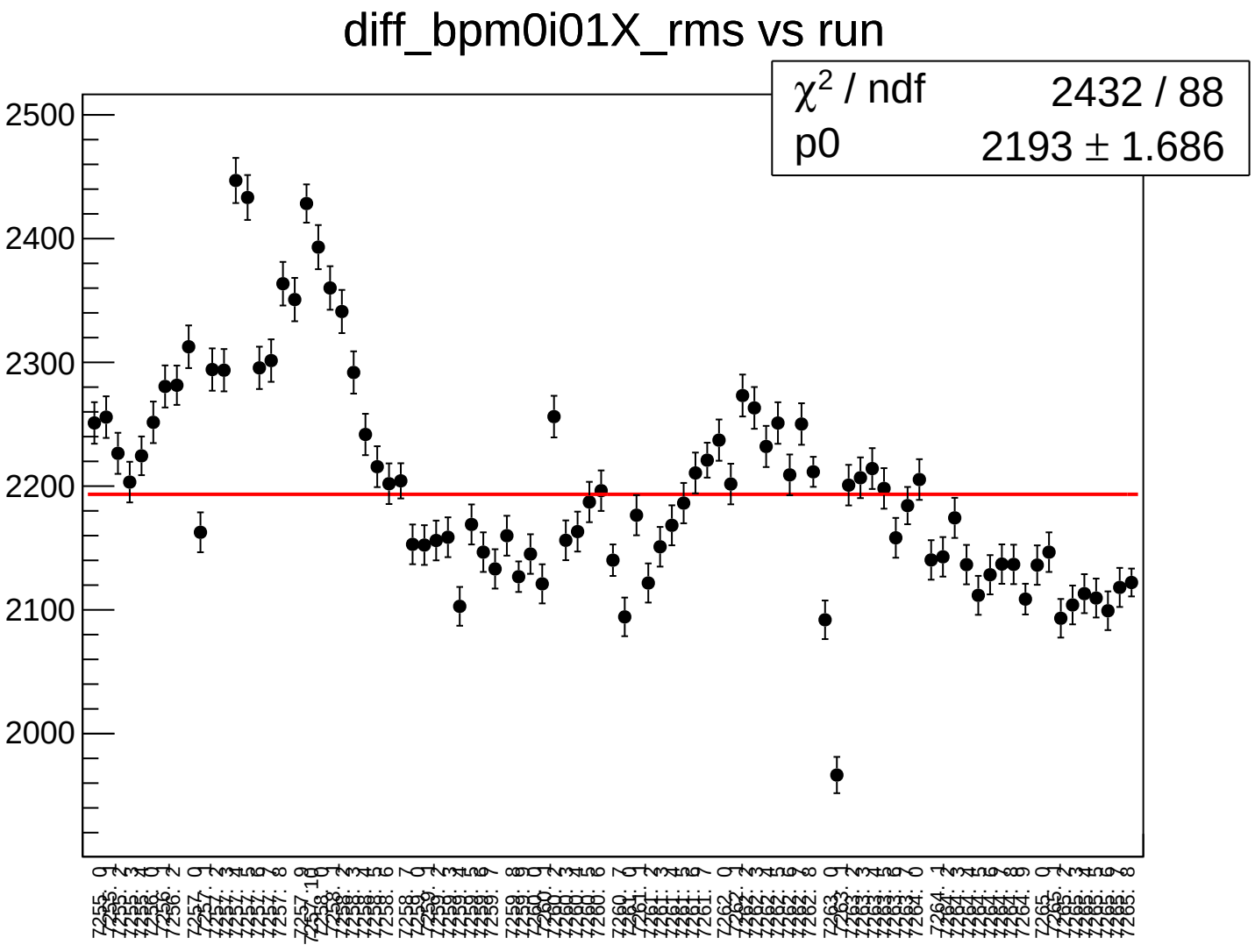

diff_cav4dY_mean vs run
χ² / ndf 108 / 88
p0 42.45 ± 197.3
pull
Entries 89
Mean 87.51
Std Dev 0

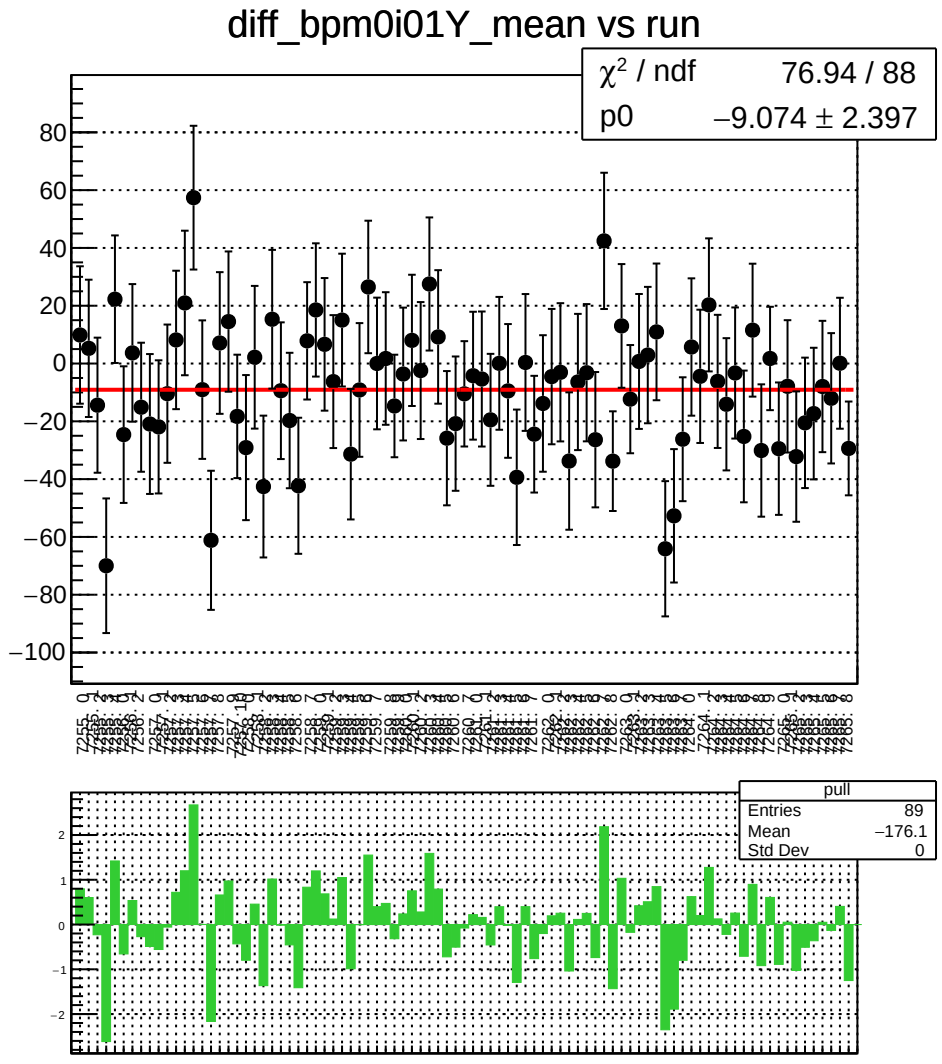

pull1D
Entries 89
Mean 0.02553
Std Dev 1.101

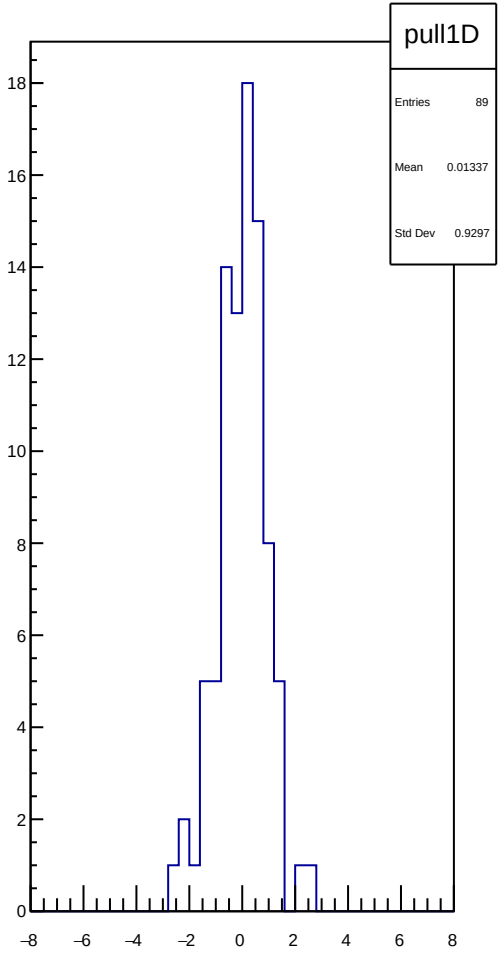

diff_cav4dY_rms vs run
×10^3
200
195
190
185
180
175
170
165
χ² / ndf 2892 / 88
p0 1.815e+05 ± 139.5

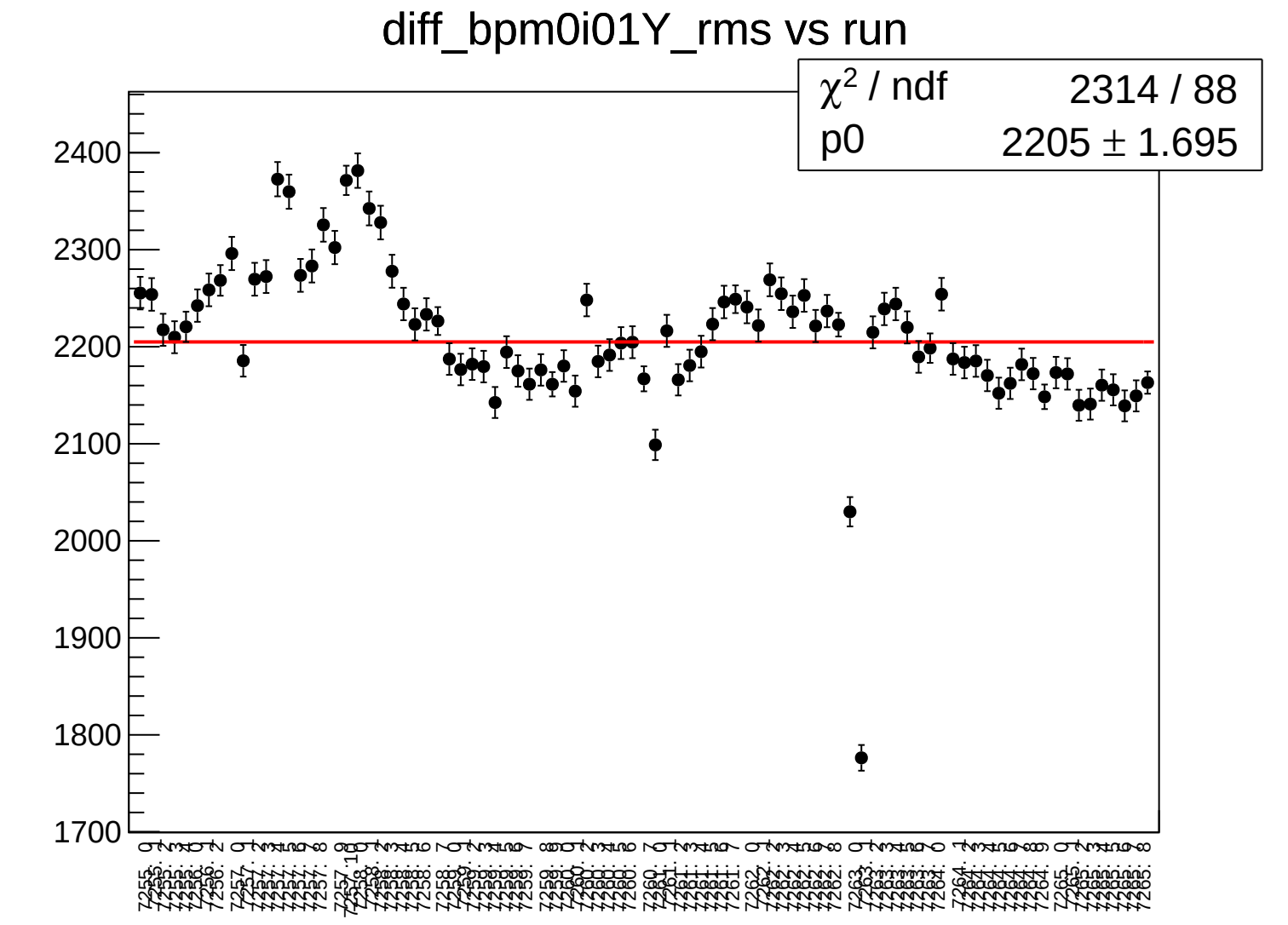

diff_bpm0i01X_mean vs run
χ^2 / ndf 72.26 / 88
p0 10.81 ± 2.384
pull
Entries 89
Mean −390.6
Std Dev 0

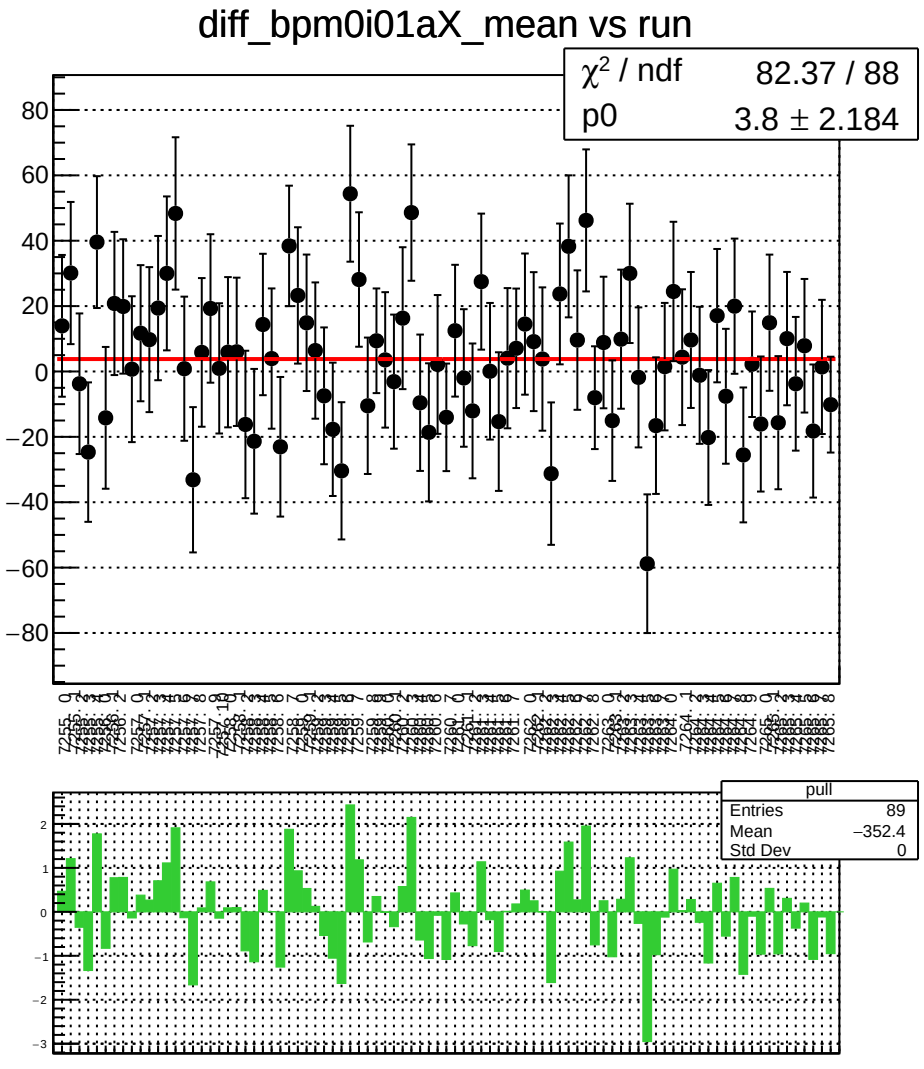

pull1D
Entries 89
Mean 0.01121
Std Dev 0.901

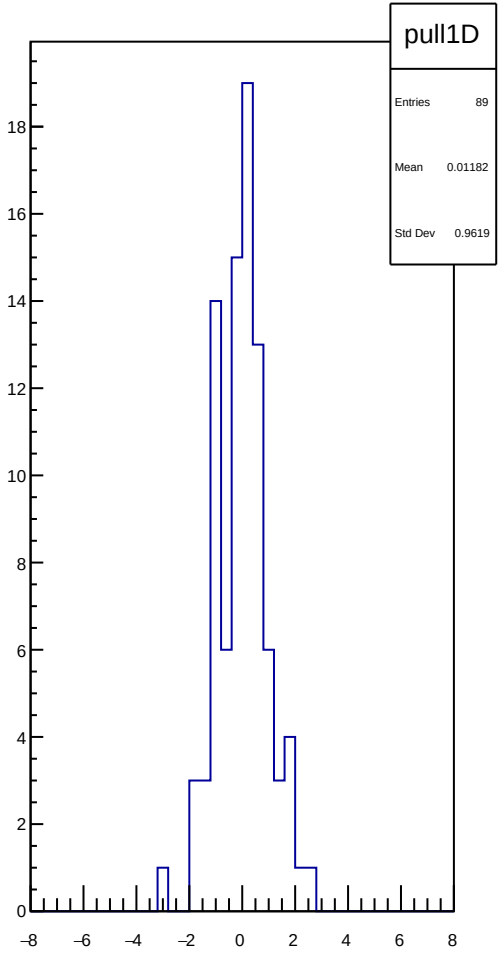

diff_bpm0i01X_rms vs run
χ² / ndf 2432 / 88
p0 2193 ± 1.686
2500
2400
2300
2200
2100
2000

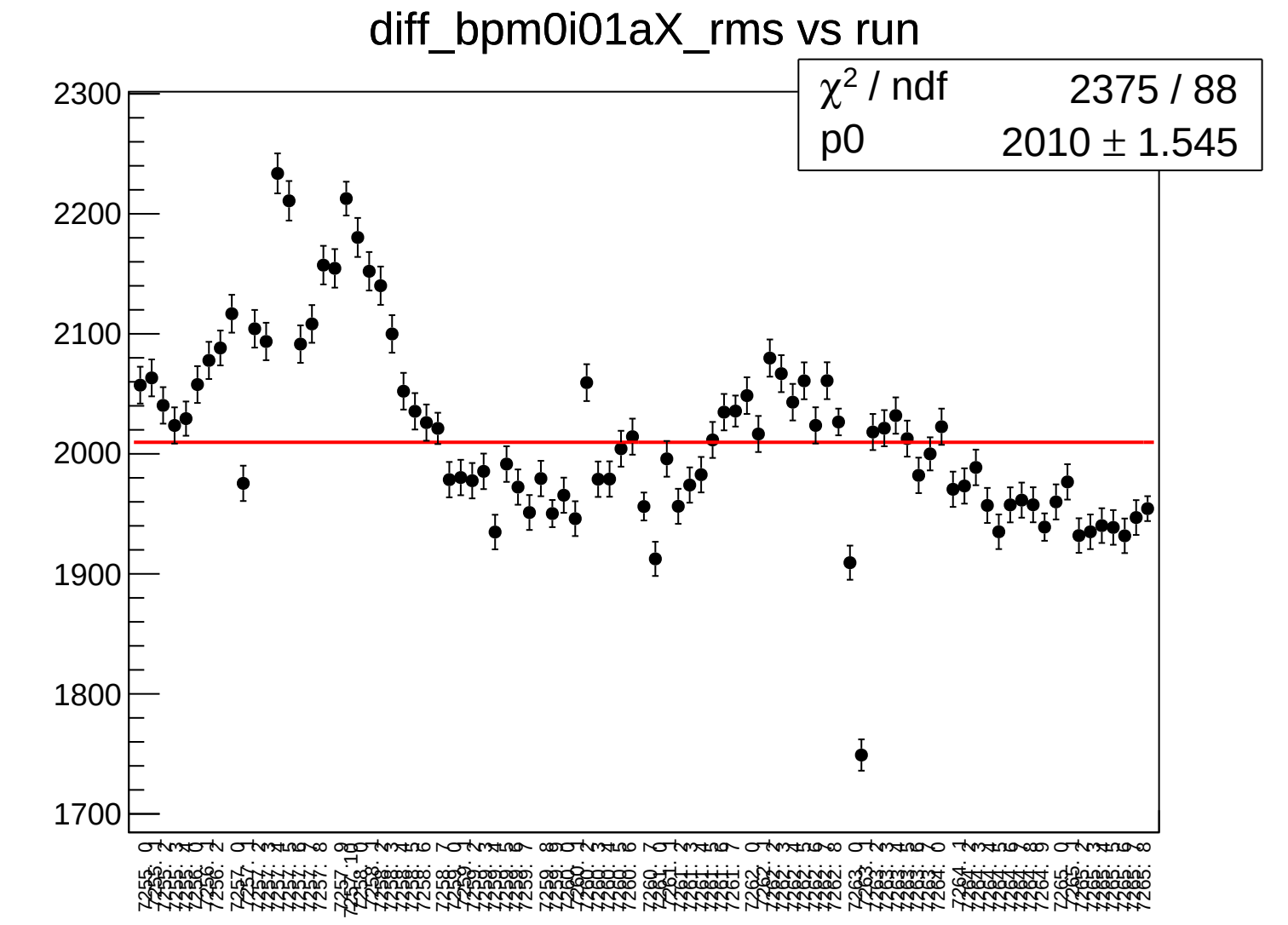

diff_bpm0i01Y_mean vs run
χ² / ndf 76.94 / 88
p0 −9.074 ± 2.397
pull
Entries 89
Mean −176.1
Std Dev 0

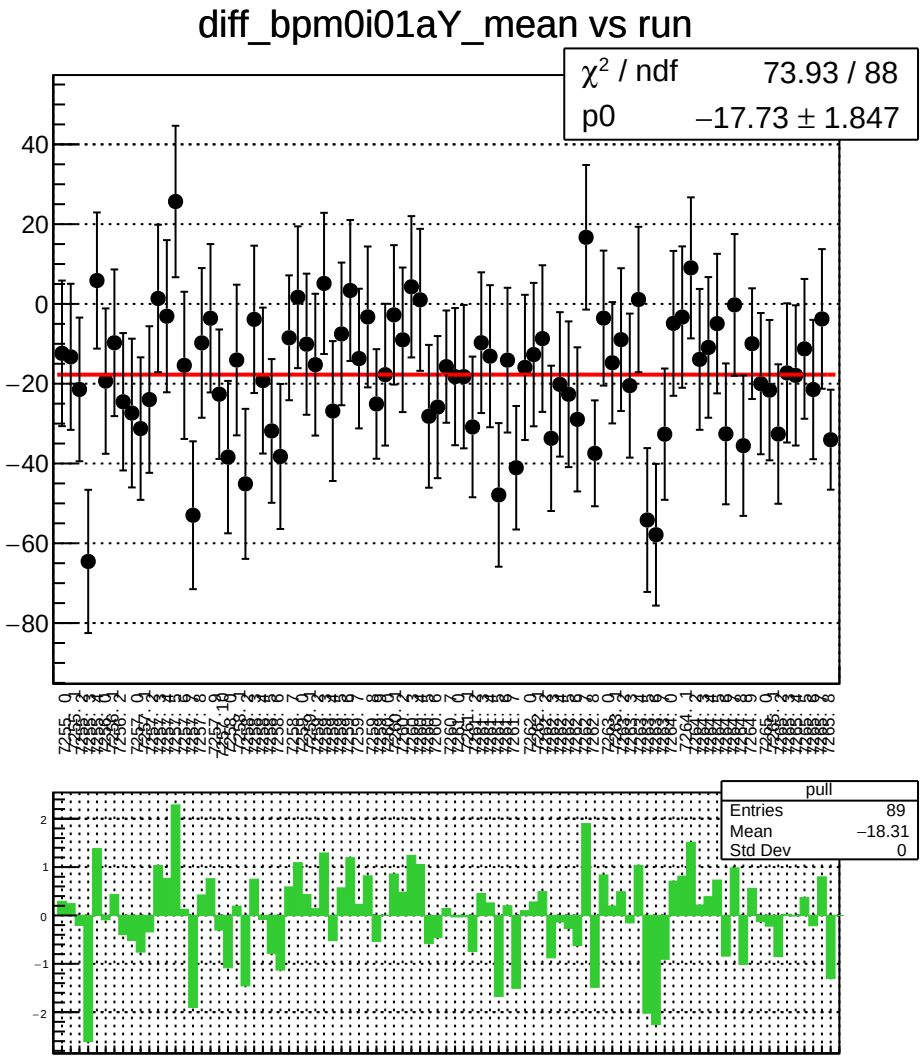

pull1D
Entries 89
Mean 0.01337
Std Dev 0.9297

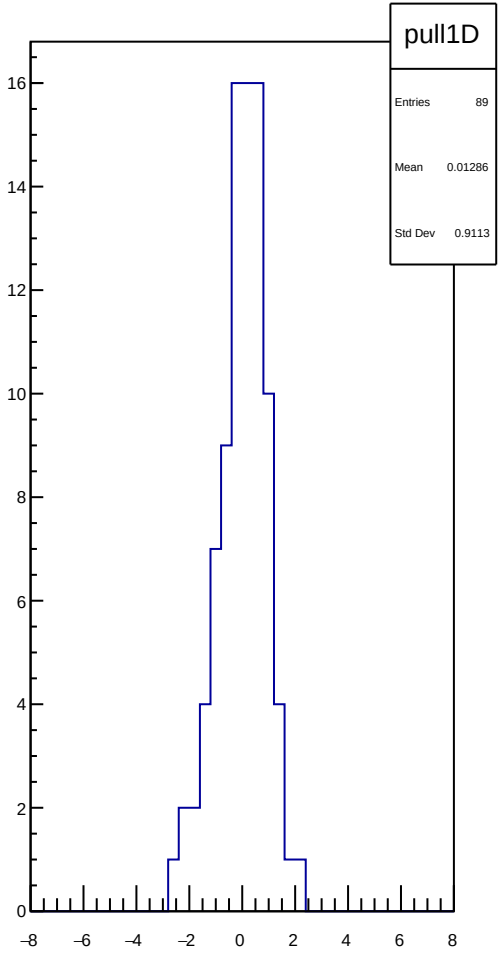

diff_bpm0i01Y_rms vs run
χ^2 / ndf 2314 / 88
p0 2205 ± 1.695
2400
2300
2200
2100
2000
1900
1800
1700

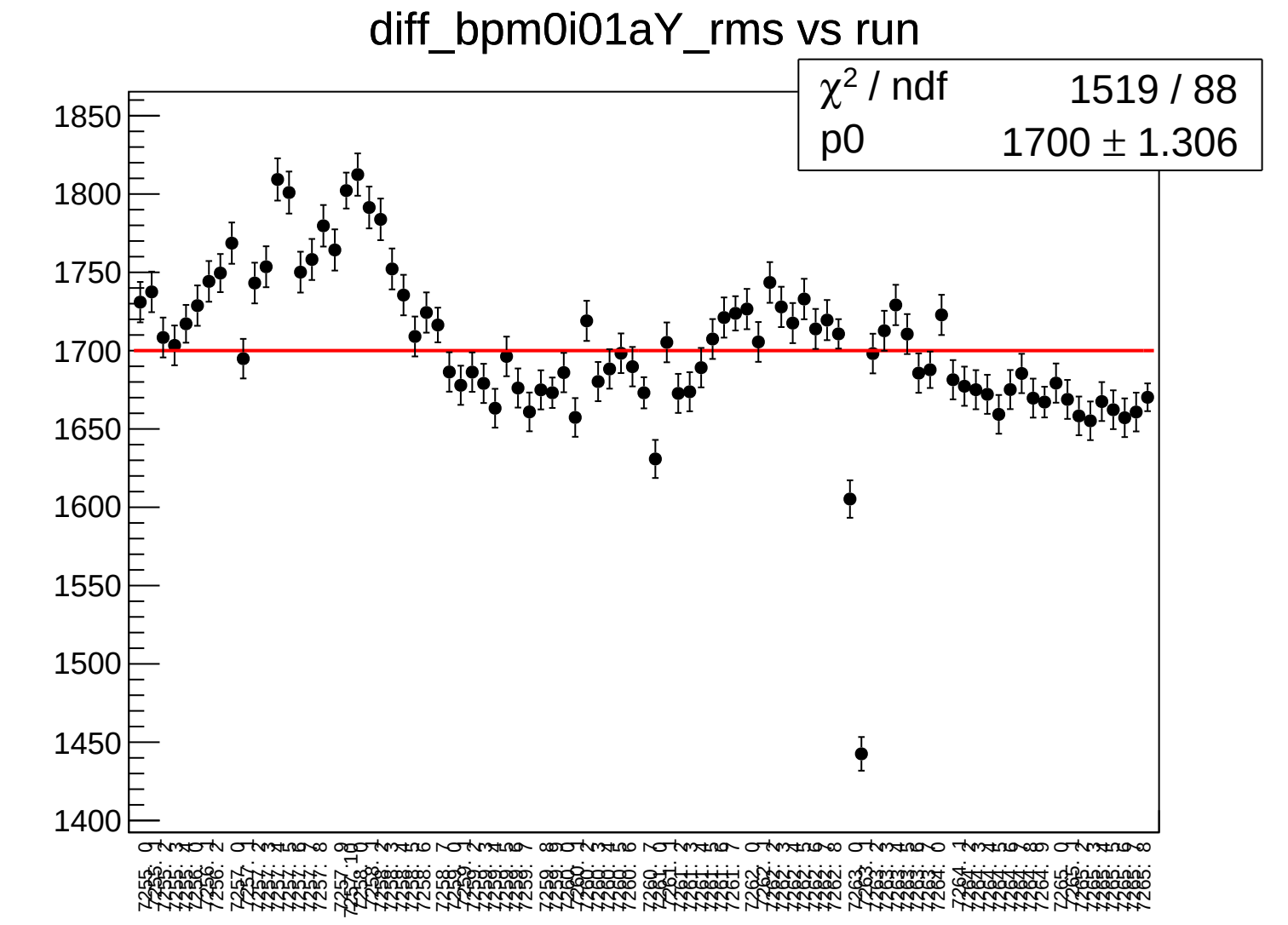

diff_bpm0i01aX_mean vs run
χ^2 / ndf 82.37 / 88
p0 3.8 ± 2.184
pull
Entries 89
Mean −352.4
Std Dev 0

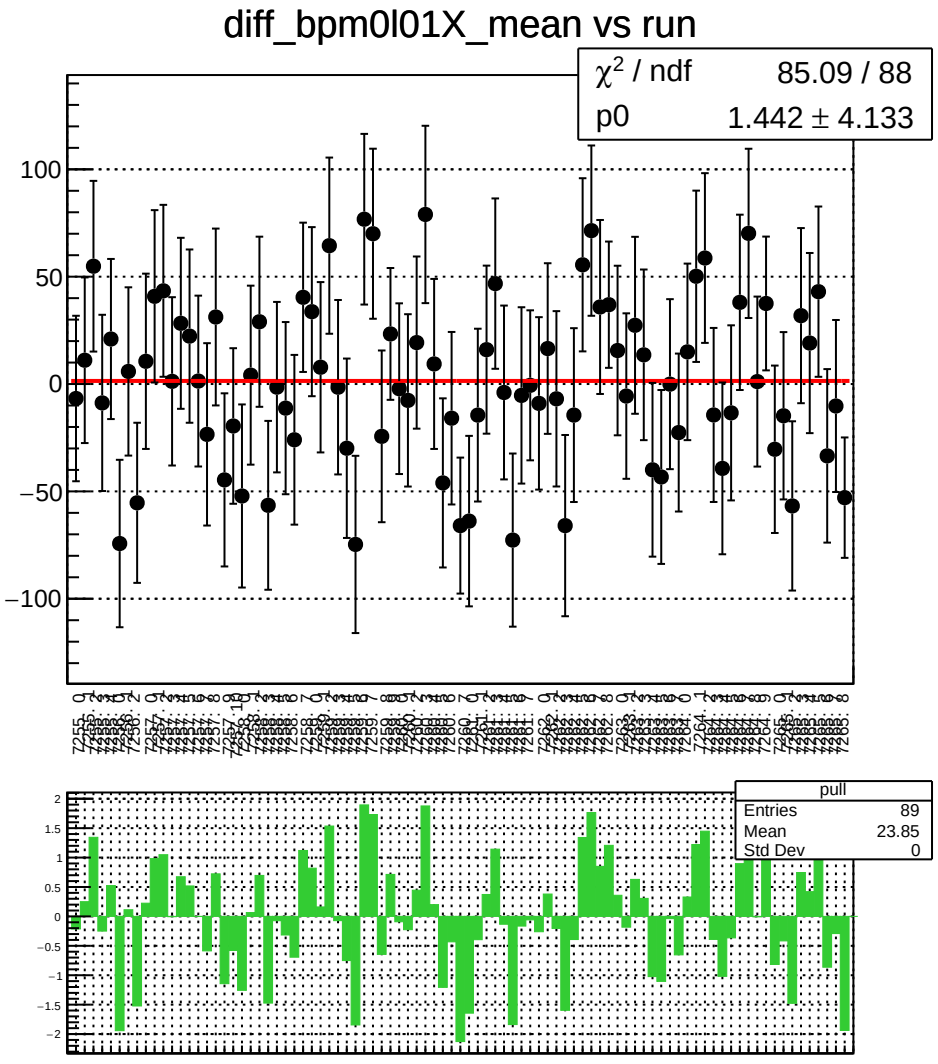

pull1D
Entries 89
Mean 0.01182
Std Dev 0.9619

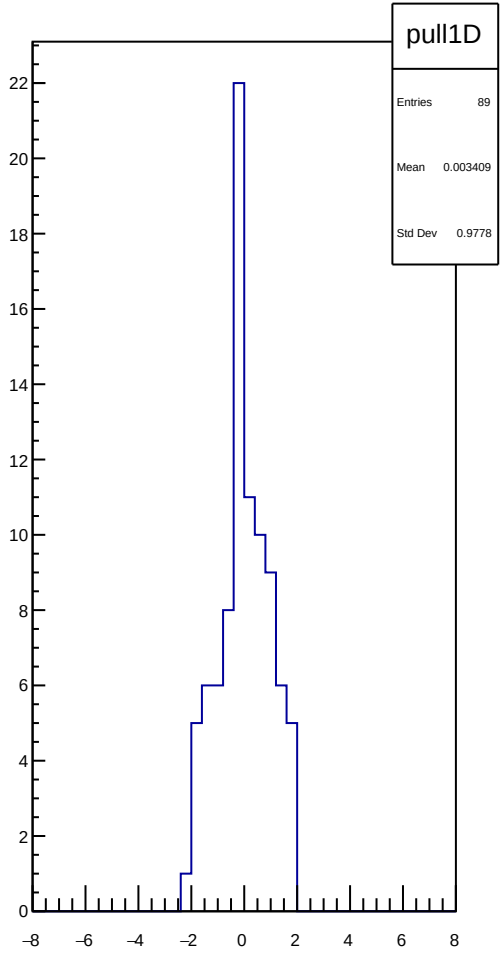

diff_bpm0i01aX_rms vs run
χ² / ndf 2375 / 88
p0 2010 ± 1.545
2300
2200
2100
2000
1900
1800
1700

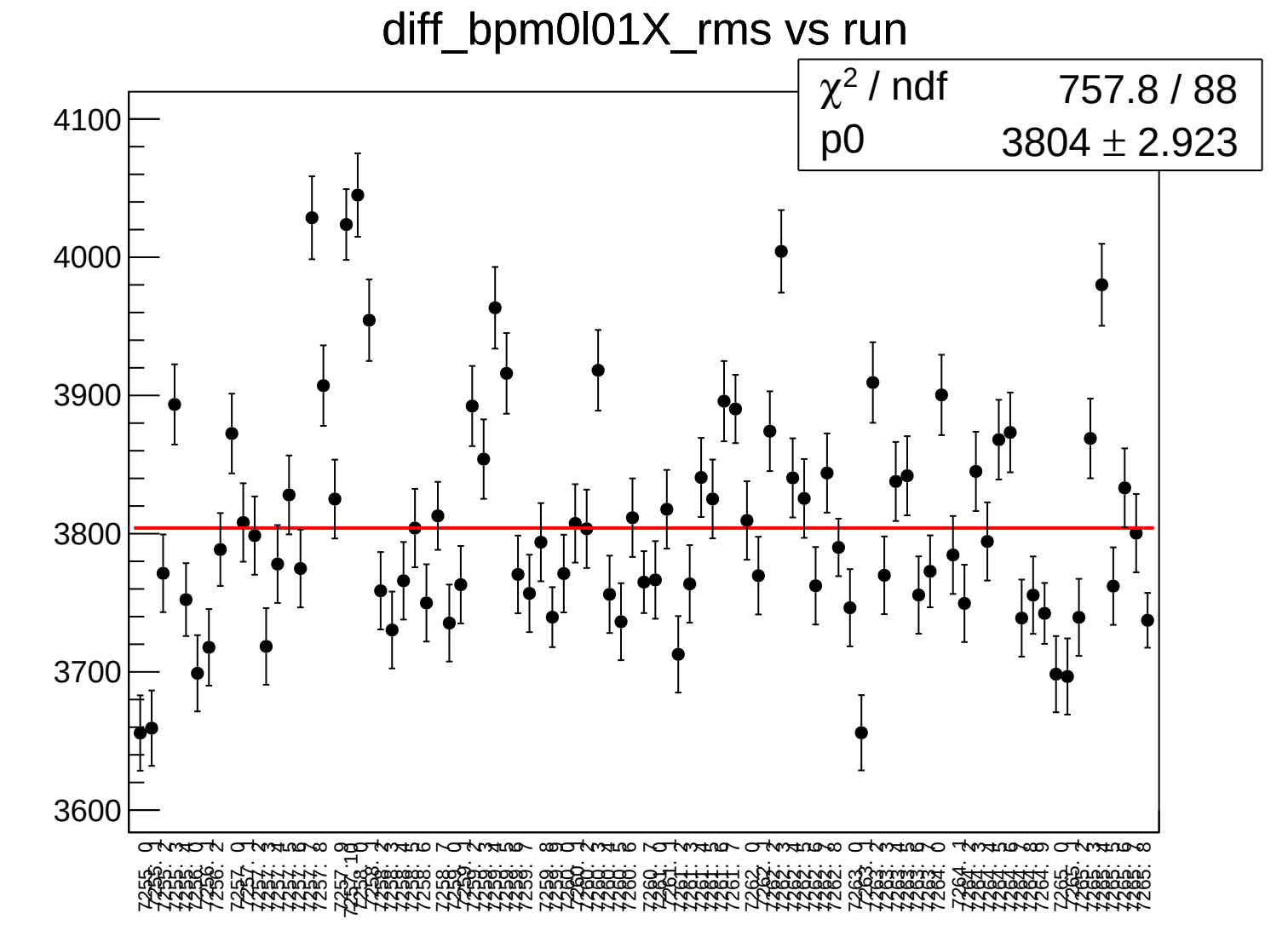

diff_bpm0i01aY_mean vs run
χ² / ndf 73.93 / 88
p0 −17.73 ± 1.847
pull
Entries 89
Mean −18.31
Std Dev 0

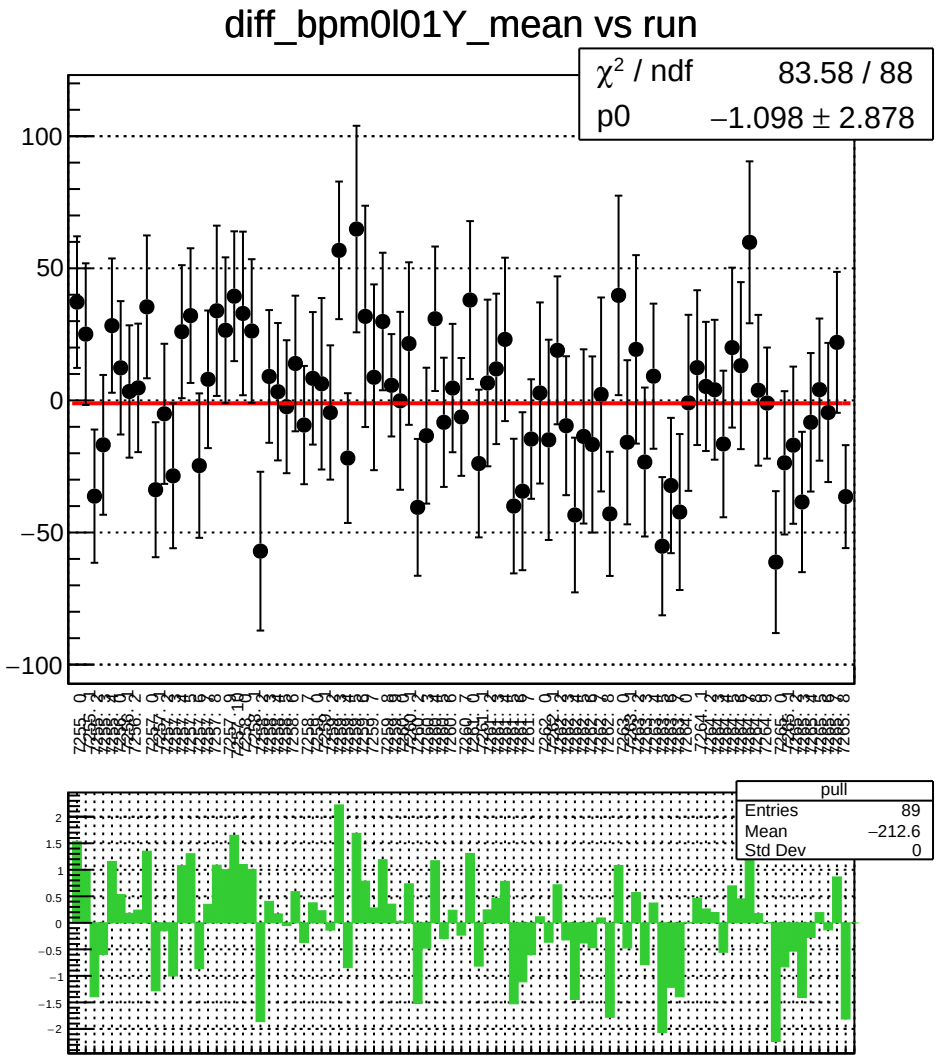

pull1D
Entries 89
Mean 0.01286
Std Dev 0.9113

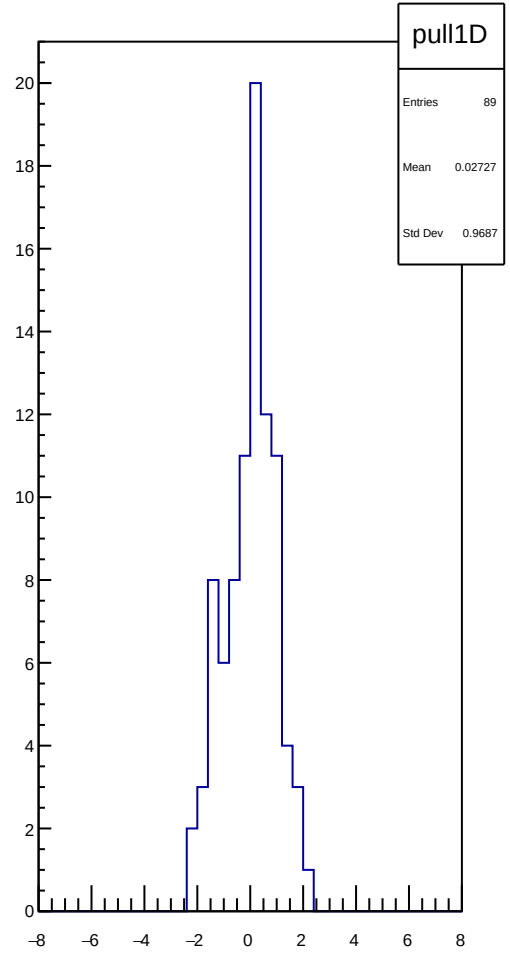

diff_bpm0i01aY_rms vs run
χ² / ndf 1519 / 88
p0 1700 ± 1.306
1850
1800
1750
1700
1650
1600
1550
1500
1450
1400

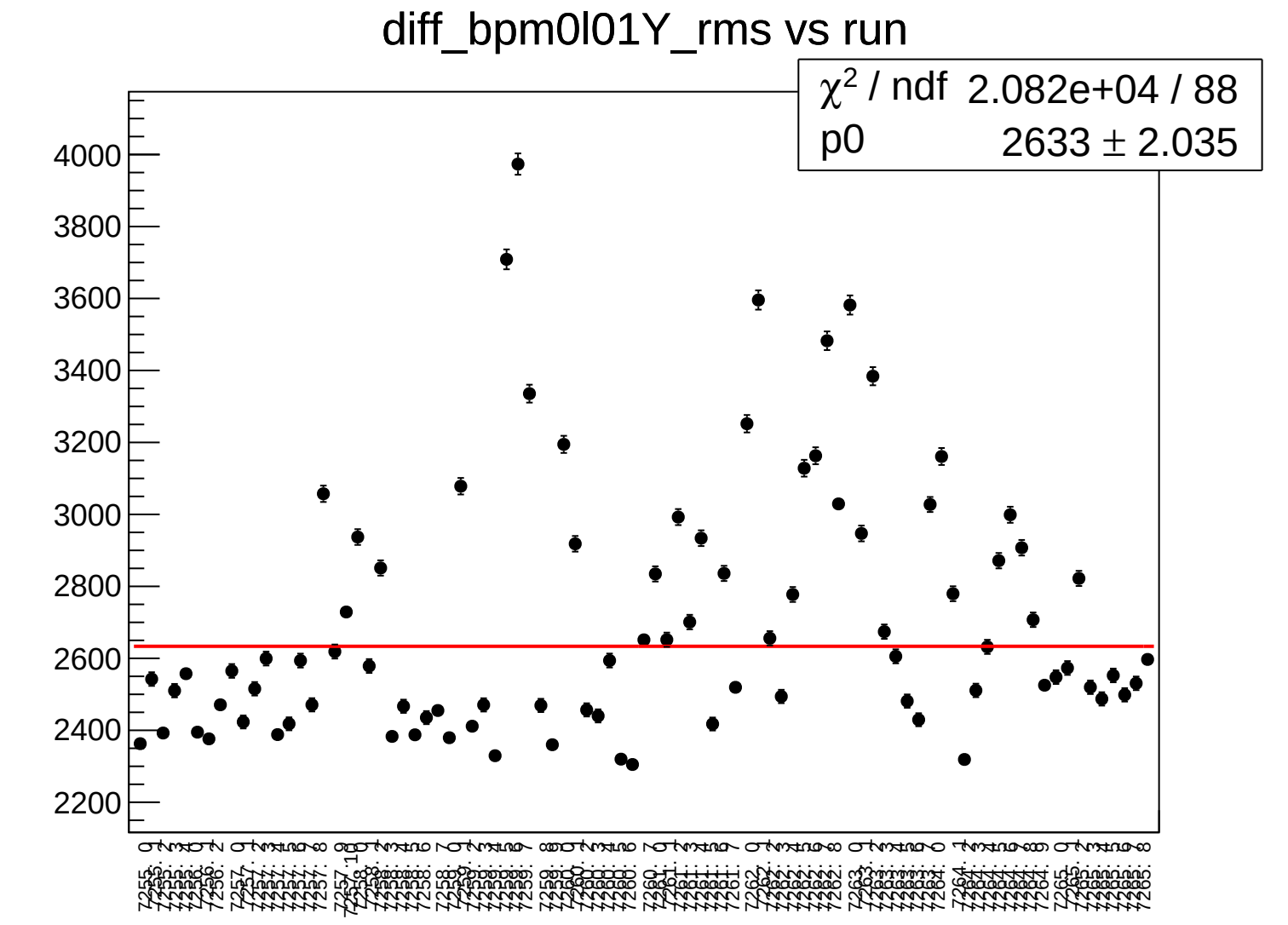

diff_bpm0l01X_mean vs run
χ^2 / ndf 85.09 / 88
p0 1.442 ± 4.133
100
50
0
−50
−100
pull
Entries 89
Mean 23.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

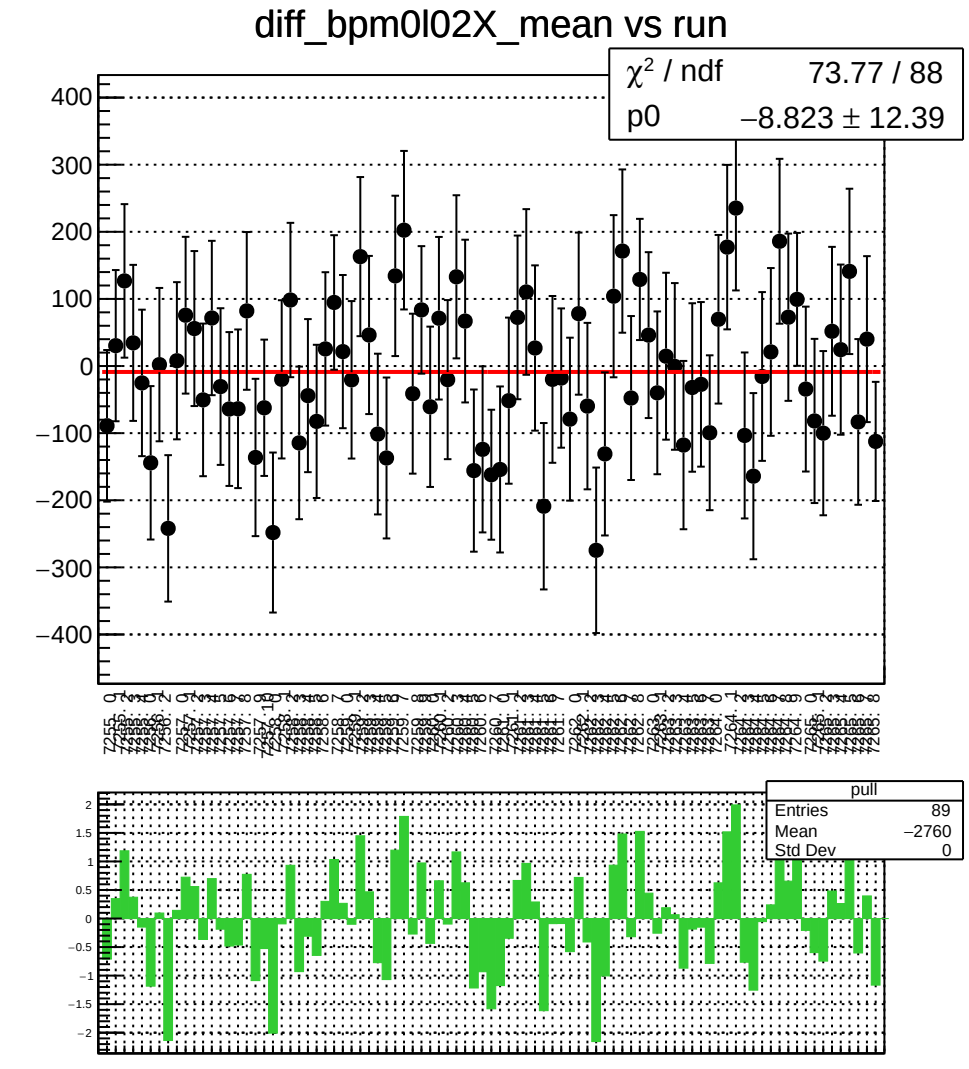

pull1D
Entries 89
Mean 0.003409
Std Dev 0.9778
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

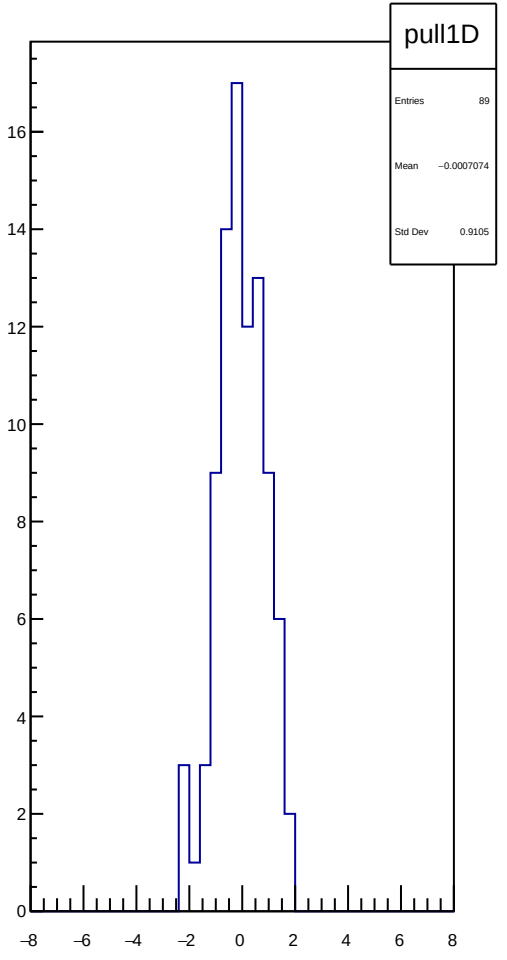

diff_bpm0l01X_rms vs run
χ² / ndf 757.8 / 88
p0 3804 ± 2.923
4100
4000
3900
3800
3700
3600

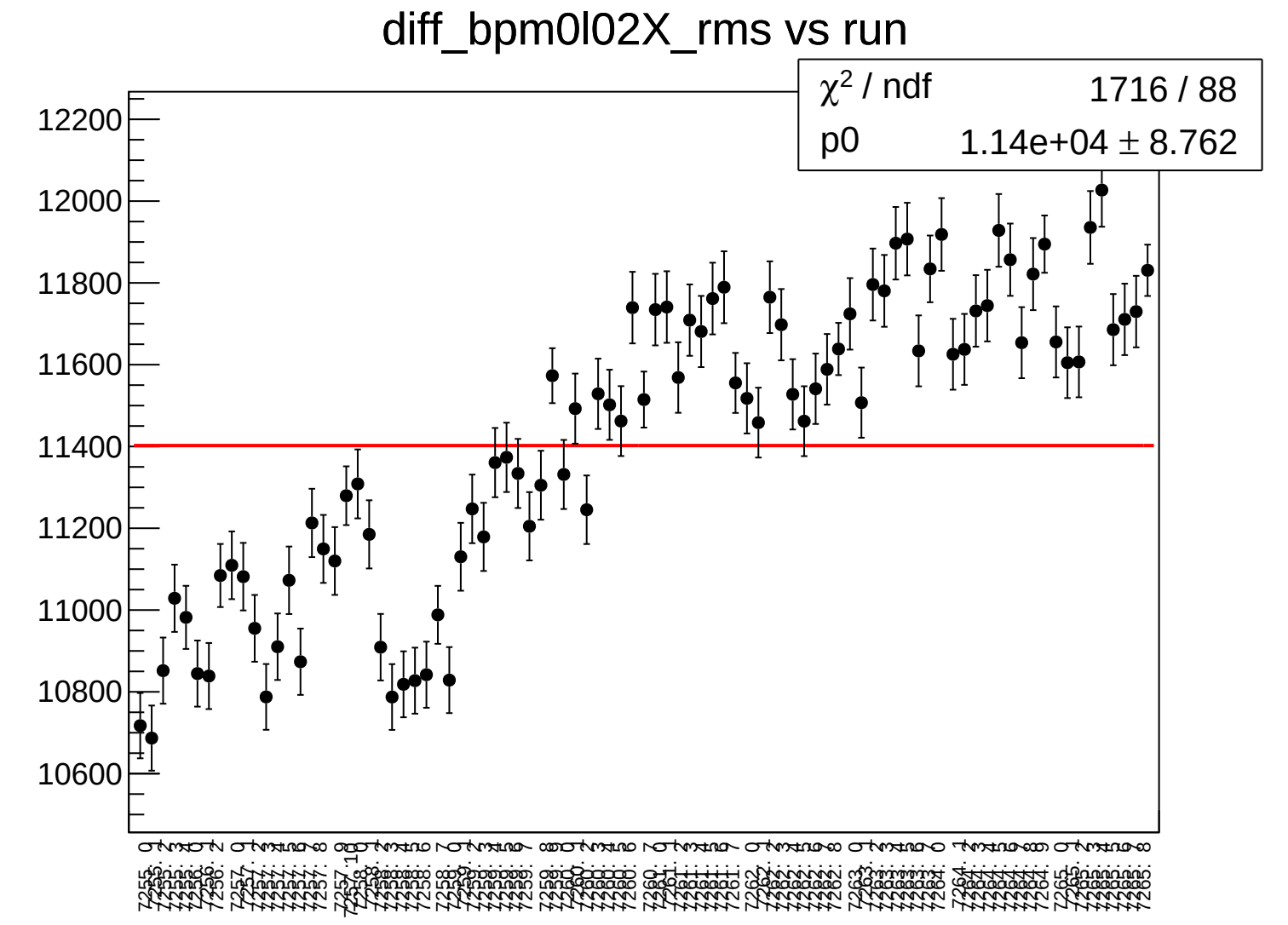

diff_bpm0l01Y_mean vs run
χ^2 / ndf 83.58 / 88
p0 −1.098 ± 2.878
pull
Entries 89
Mean −212.6
Std Dev 0

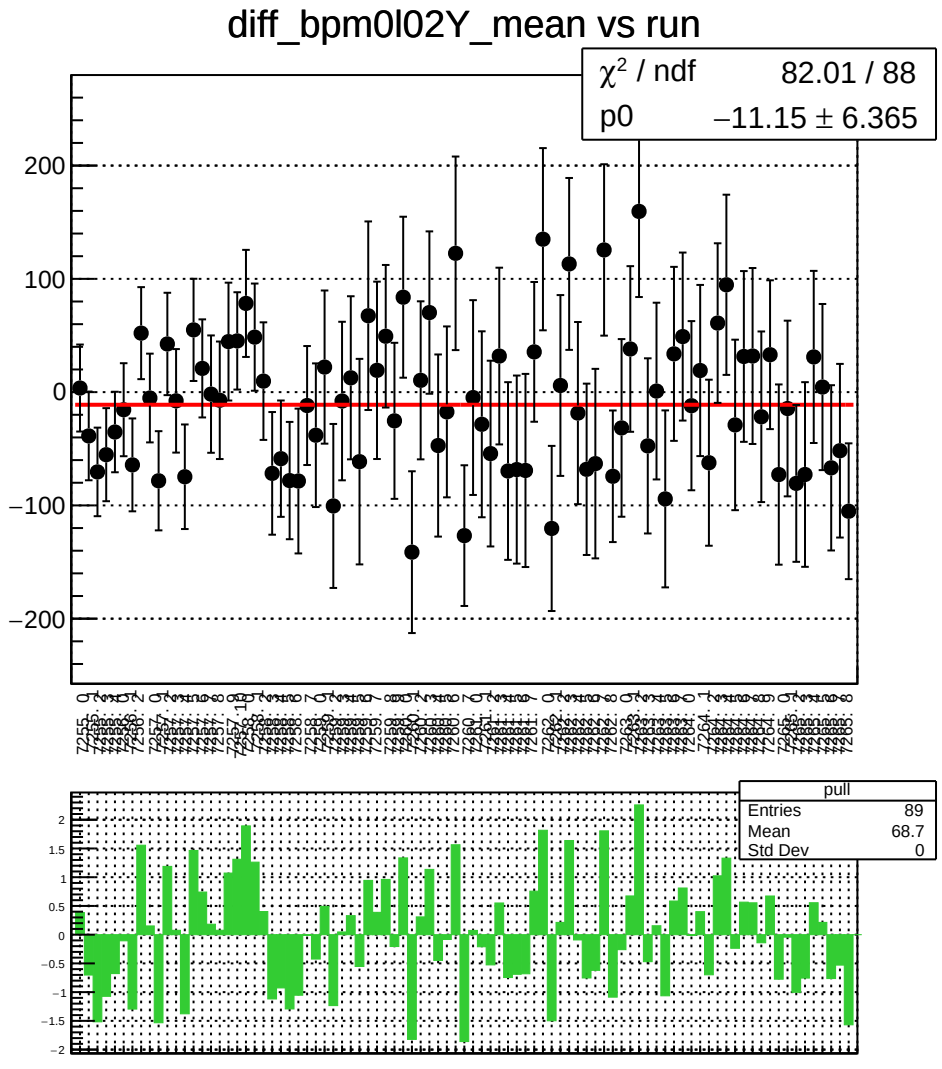

pull1D
Entries 89
Mean 0.02727
Std Dev 0.9687

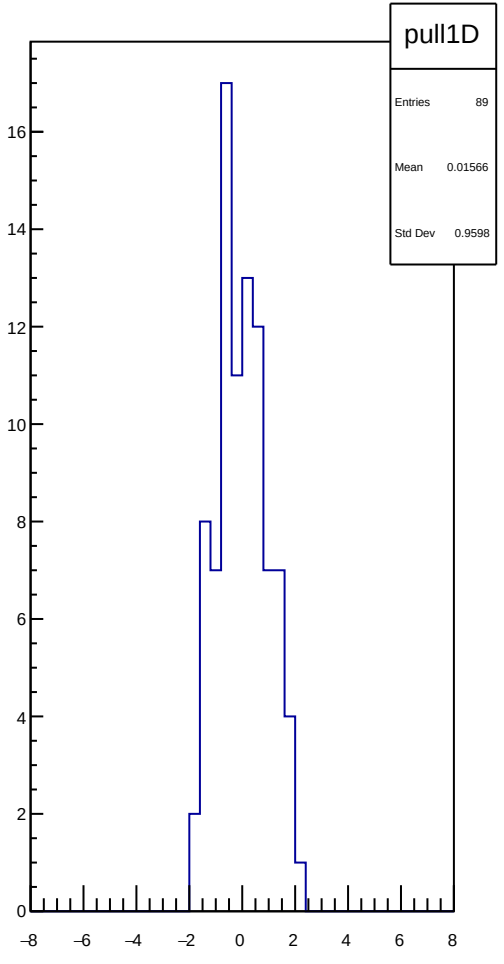

diff_bpm0l01Y_rms vs run
χ² / ndf 2.082e+04 / 88
p0 2633 ± 2.035
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

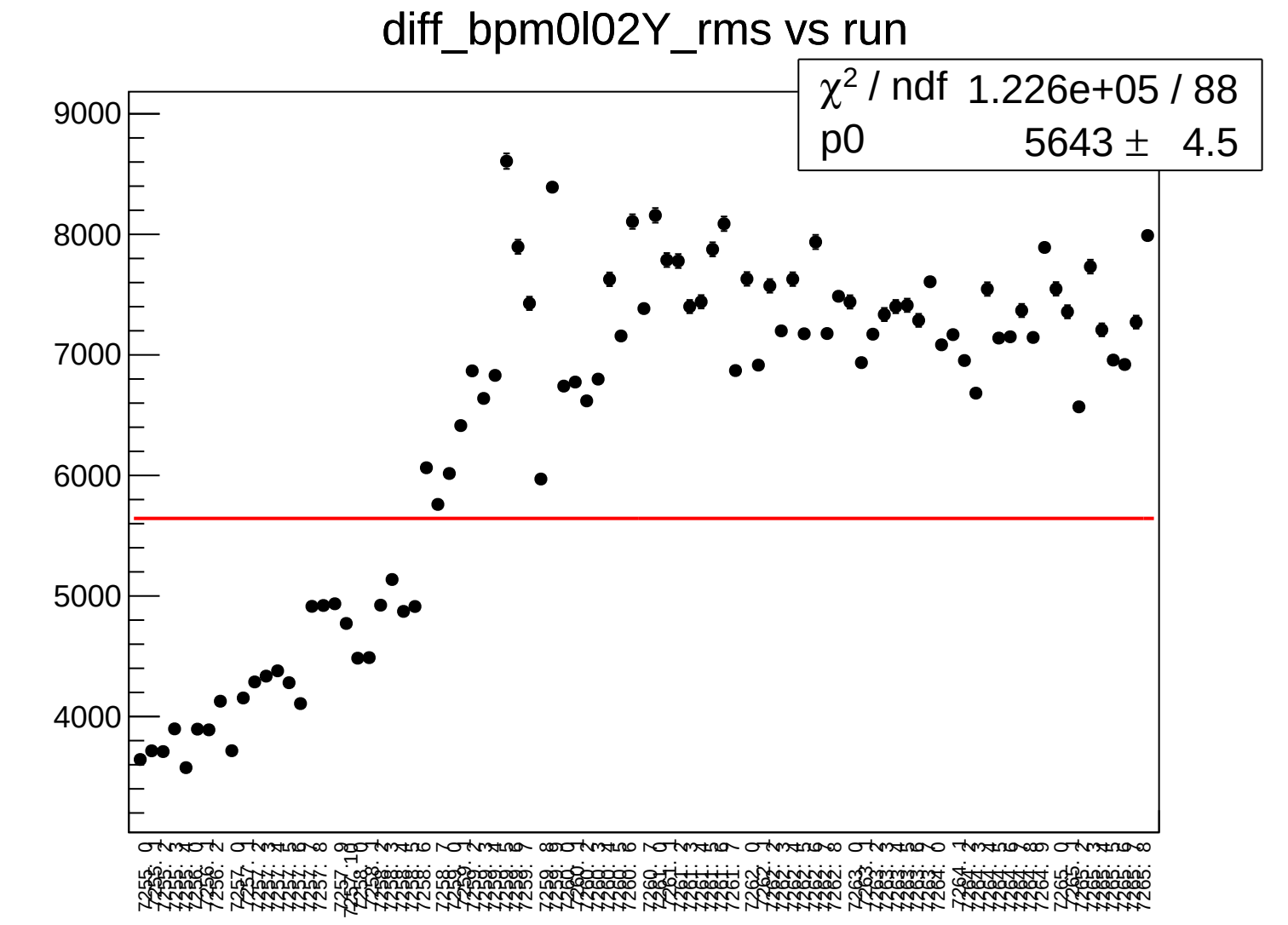

diff_bpm0l02X_mean vs run
χ² / ndf 73.77 / 88
p0 −8.823 ± 12.39
pull
Entries 89
Mean −2760
Std Dev 0

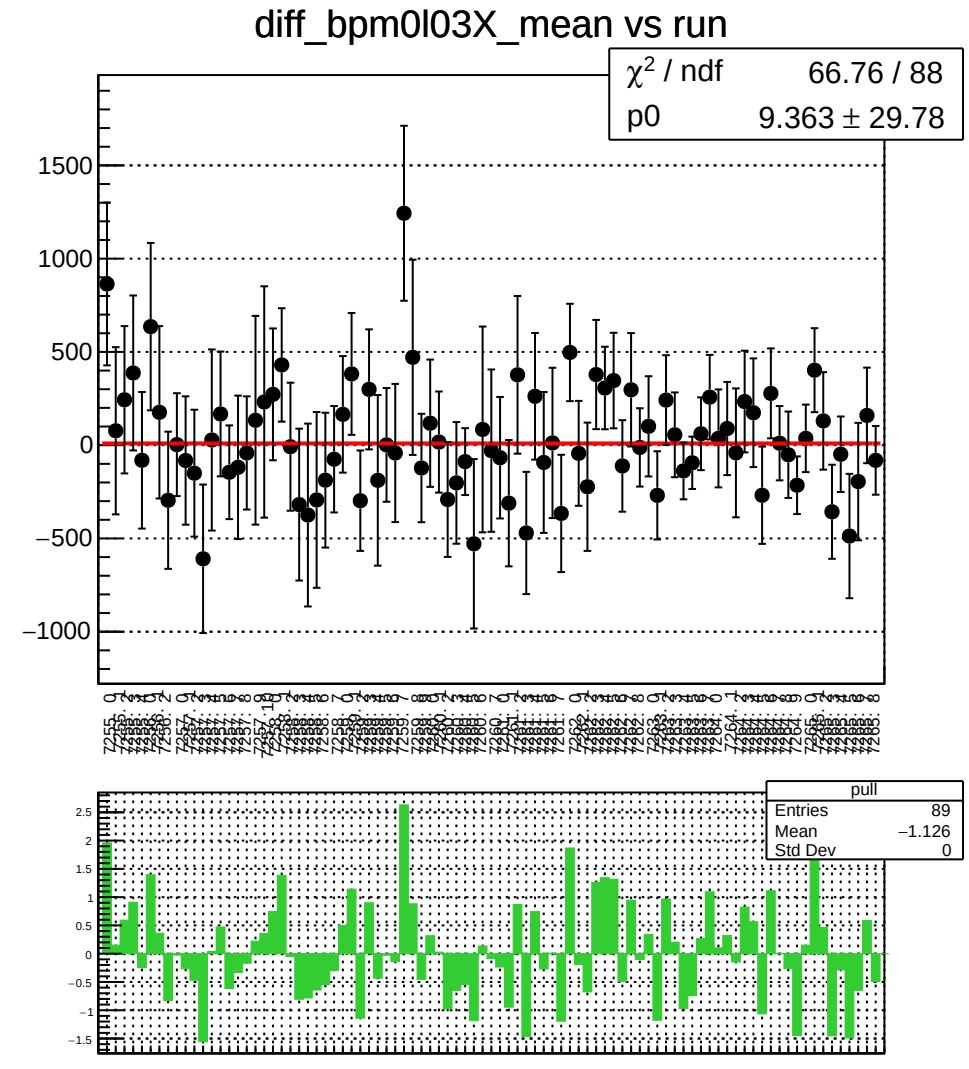

pull1D
Entries 89
Mean −0.0007074
Std Dev 0.9105

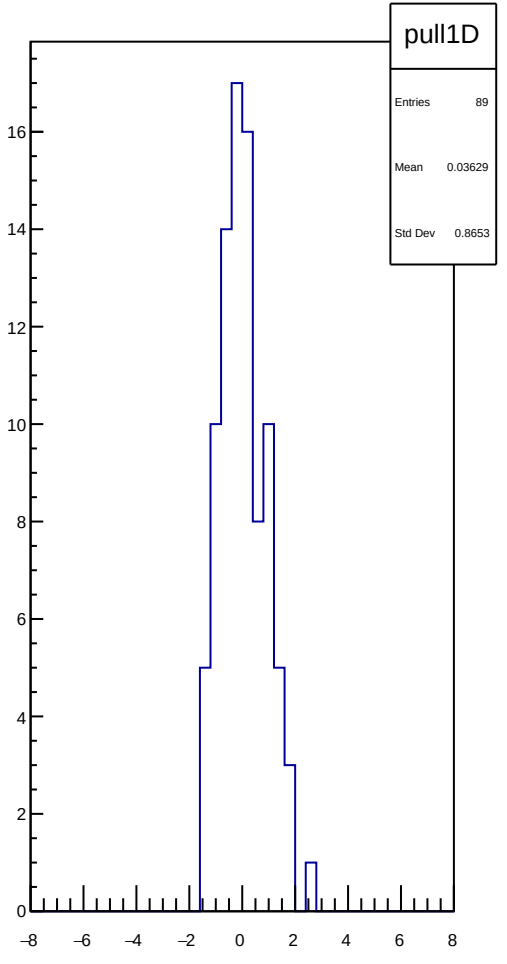

diff_bpm0l02X_rms vs run
χ² / ndf 1716 / 88
p0 1.14e+04 ± 8.762
12200
12000
11800
11600
11400
11200
11000
10800
10600

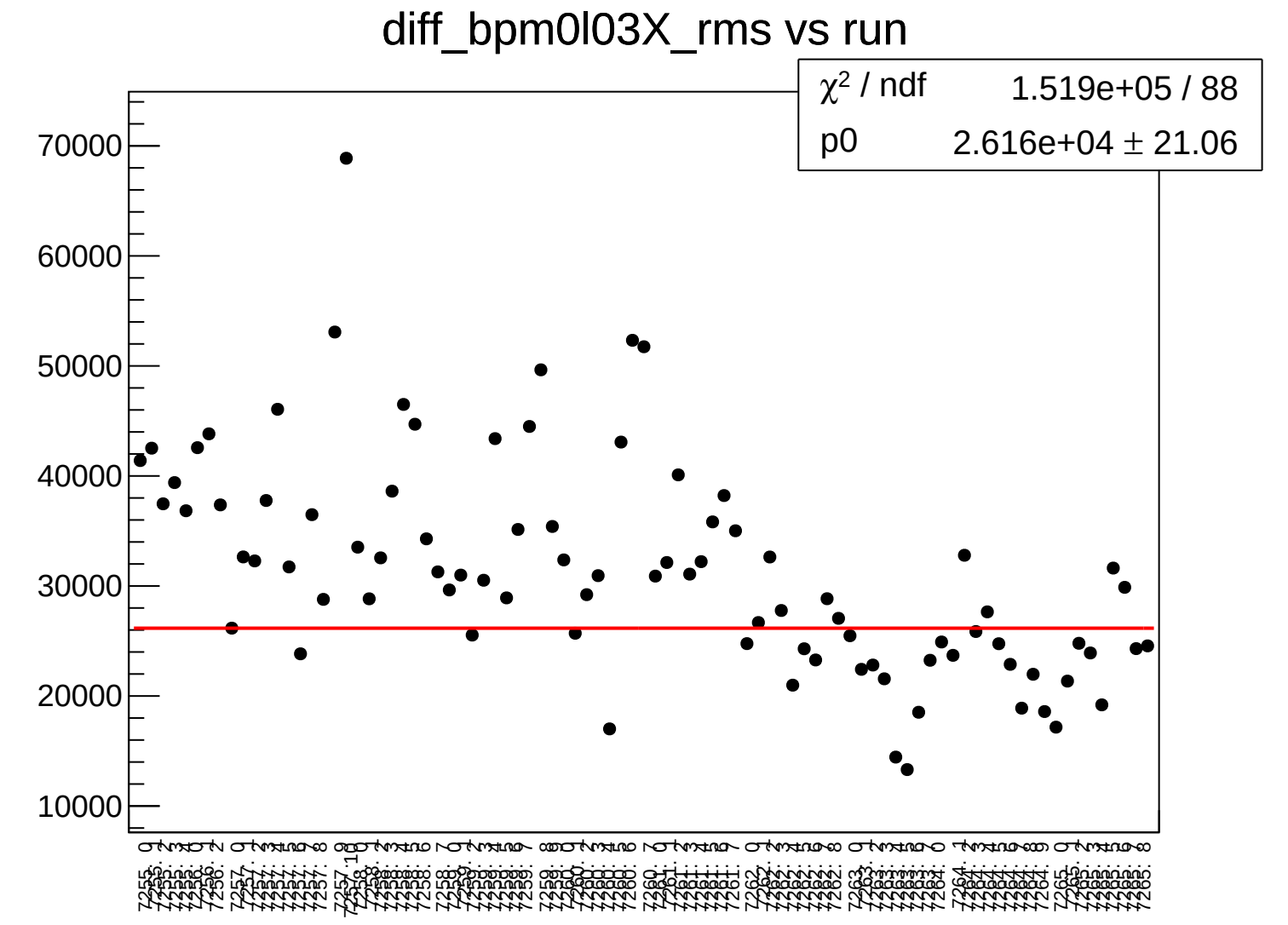

diff_bpm0l02Y_mean vs run
χ² / ndf 82.01 / 88
p0 −11.15 ± 6.365
200
100
0
−100
−200
pull
Entries 89
Mean 68.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

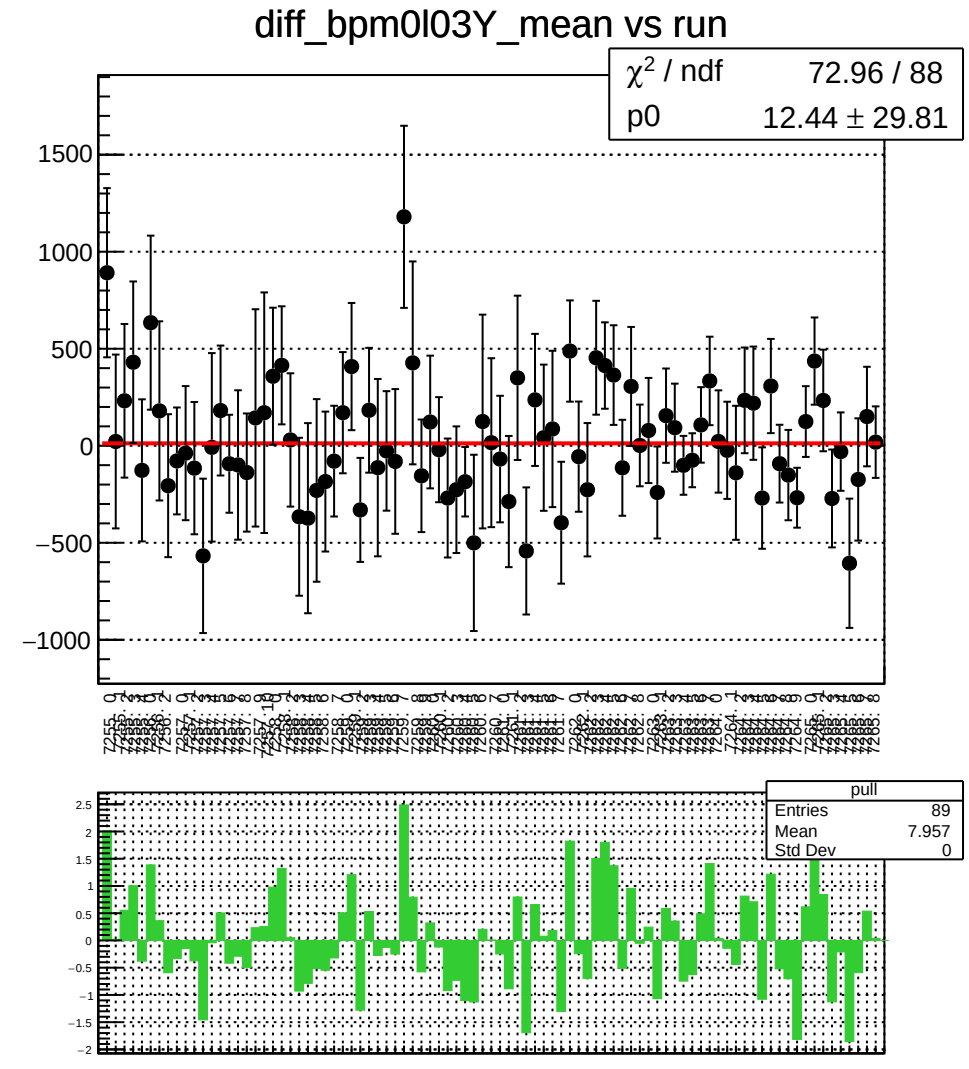

pull1D
Entries 89
Mean 0.01566
Std Dev 0.9598
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

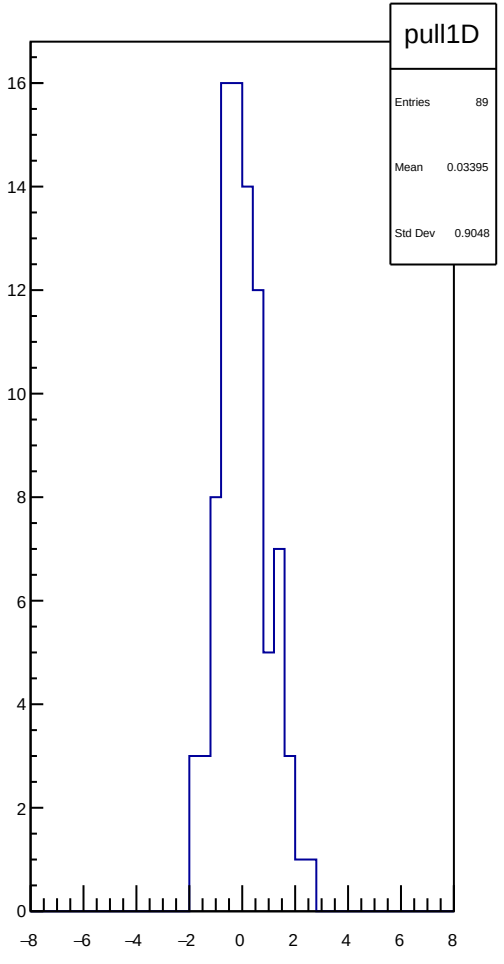

diff_bpm0l02Y_rms vs run
χ² / ndf 1.226e+05 / 88
p0 5643 ± 4.5
9000
8000
7000
6000
5000
4000

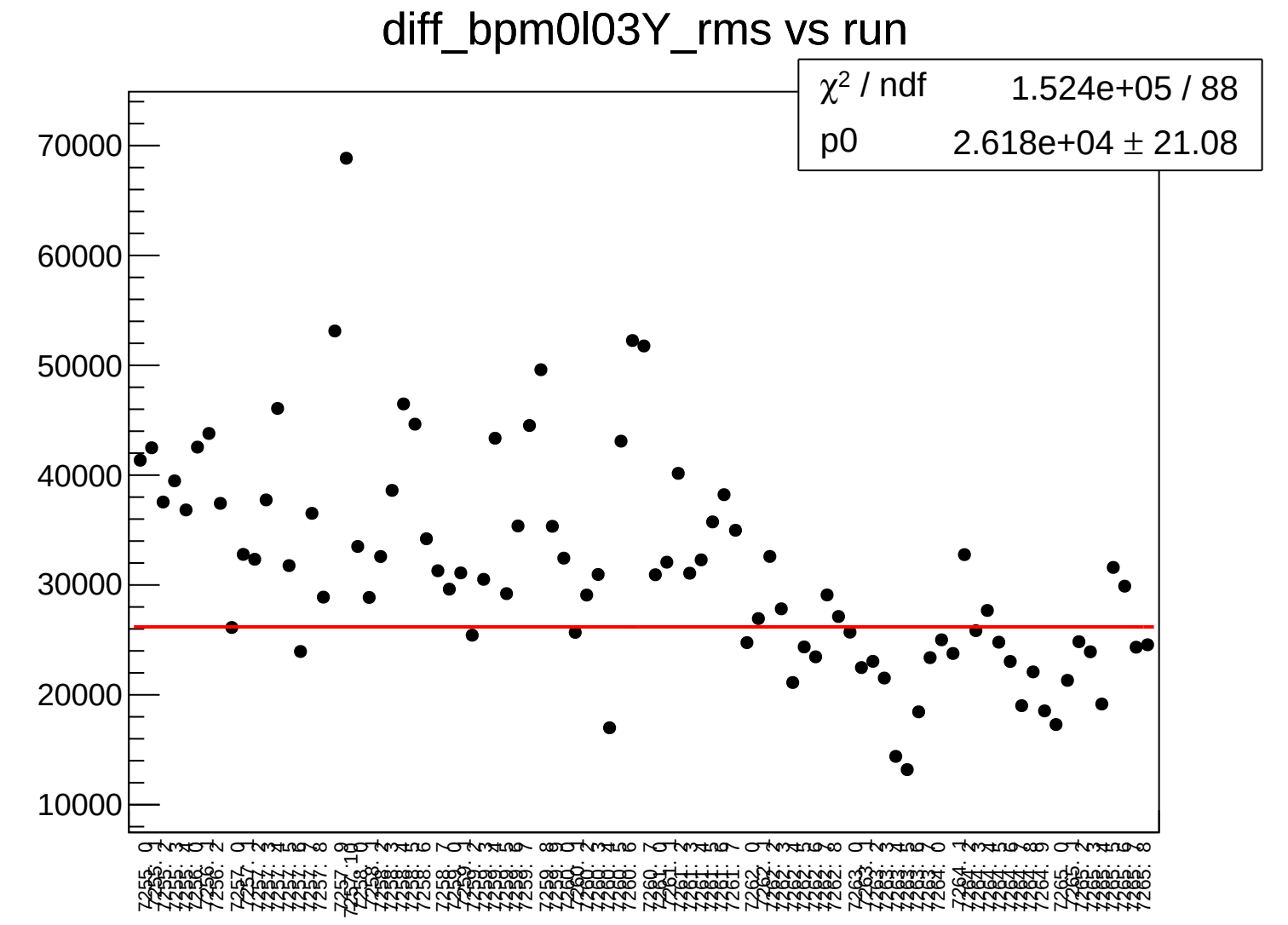

diff_bpm0l03X_mean vs run
χ² / ndf 66.76 / 88
p0 9.363 ± 29.78
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean −1.126
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

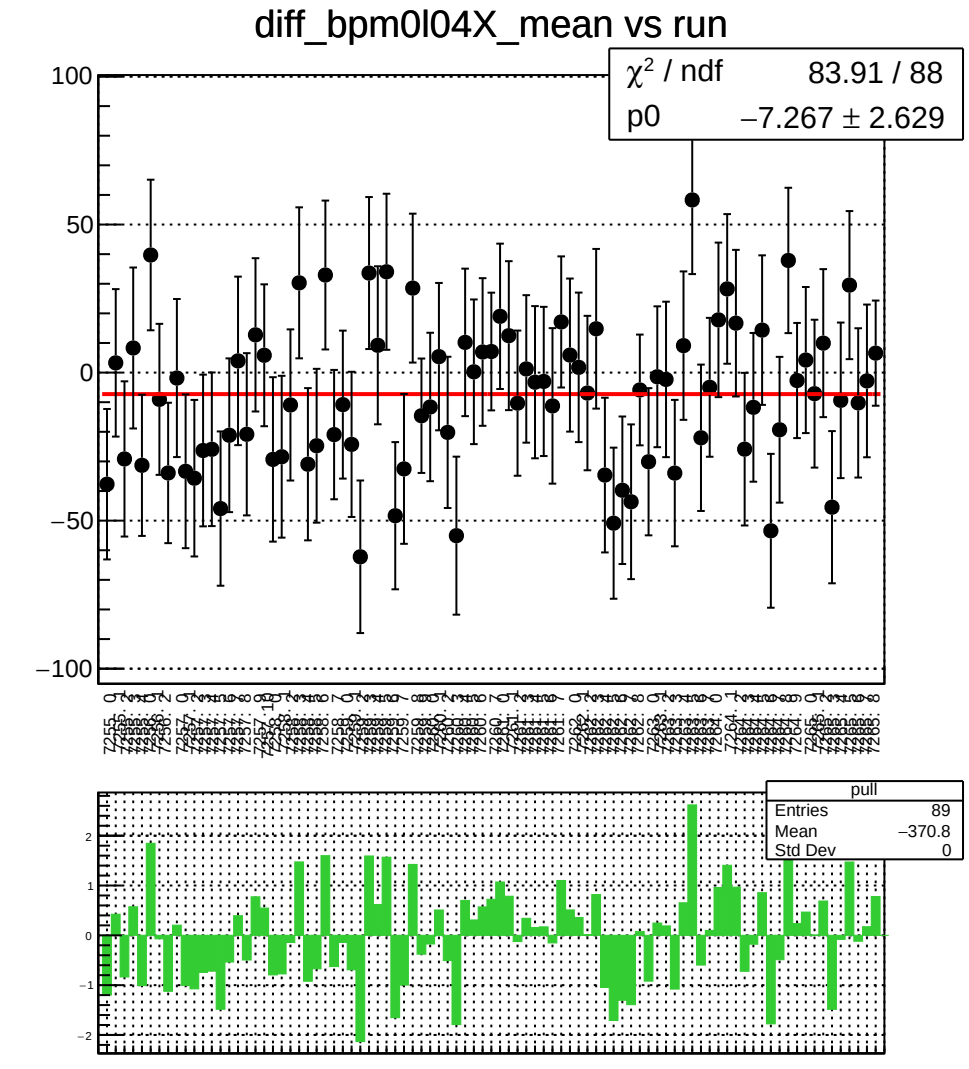

pull1D
Entries 89
Mean 0.03629
Std Dev 0.8653
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

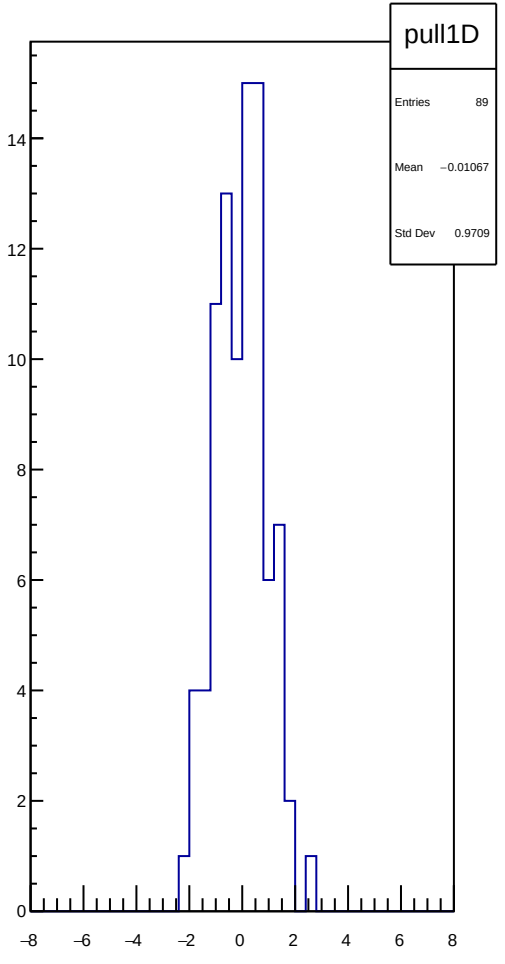

diff_bpm0l03X_rms vs run
χ² / ndf 1.519e+05 / 88
p0 2.616e+04 ± 21.06
70000
60000
50000
40000
30000
20000
10000

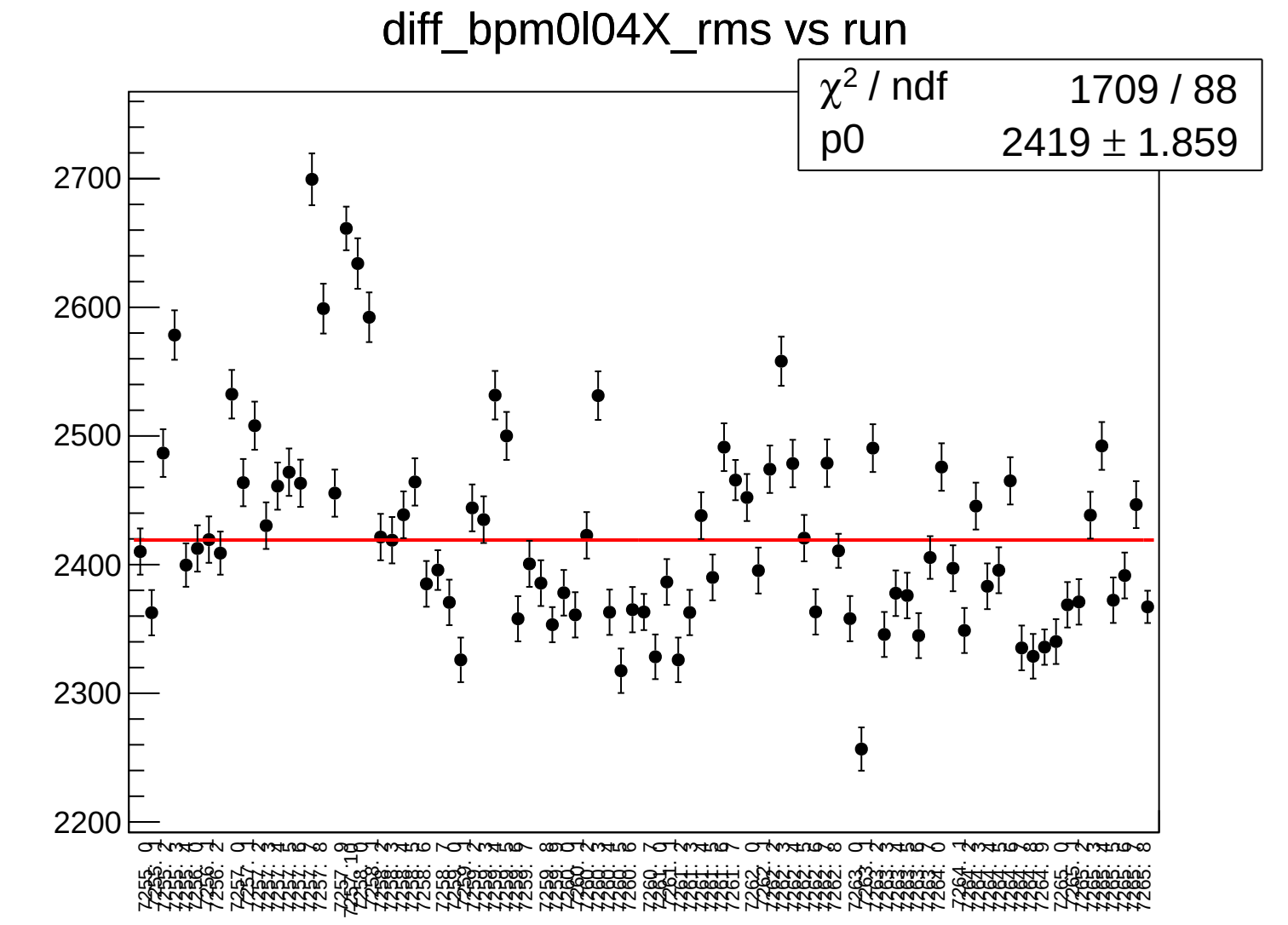

diff_bpm0l03Y_mean vs run
χ² / ndf 72.96 / 88
p0 12.44 ± 29.81
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean 7.957
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

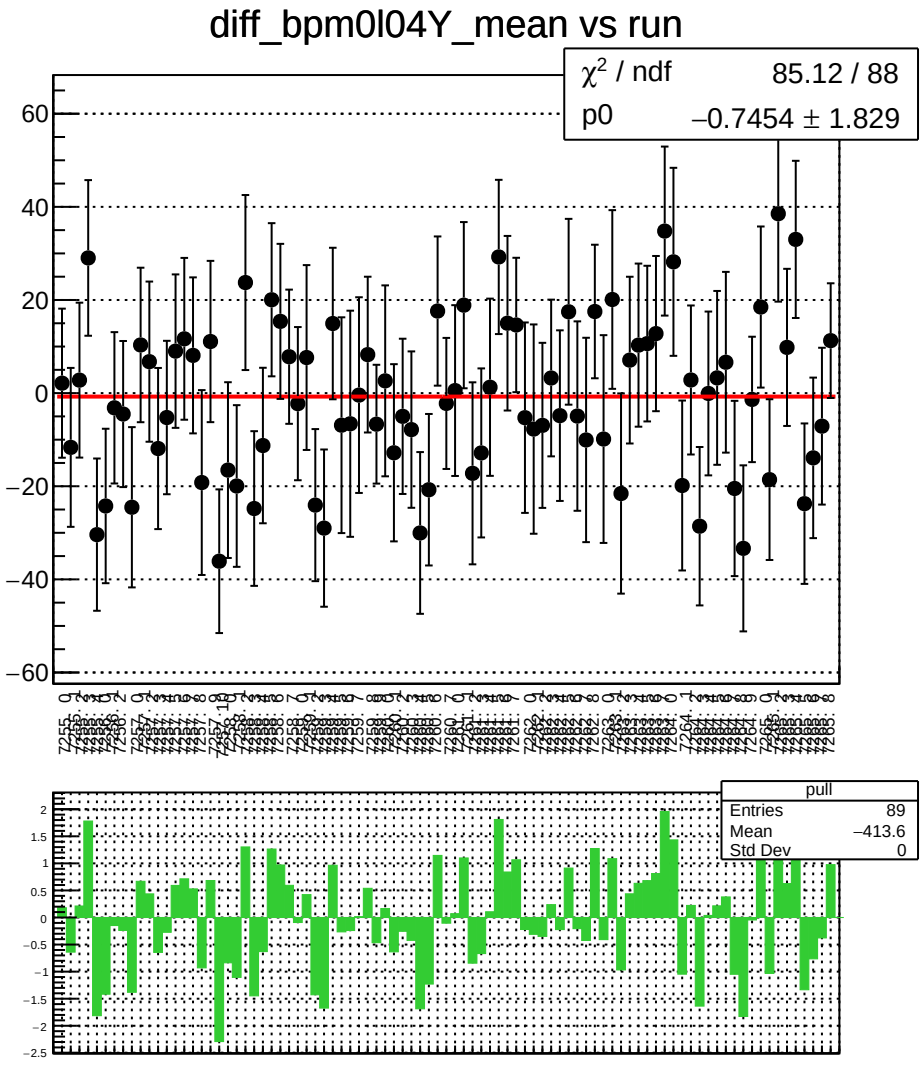

pull1D
Entries 89
Mean 0.03395
Std Dev 0.9048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

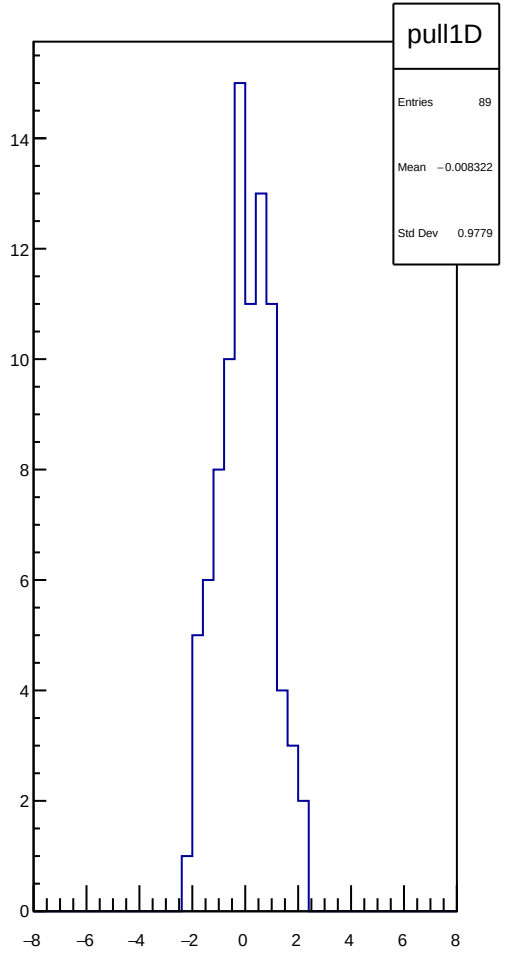

diff_bpm0l03Y_rms vs run
χ² / ndf 1.524e+05 / 88
p0 2.618e+04 ± 21.08
70000
60000
50000
40000
30000
20000
10000

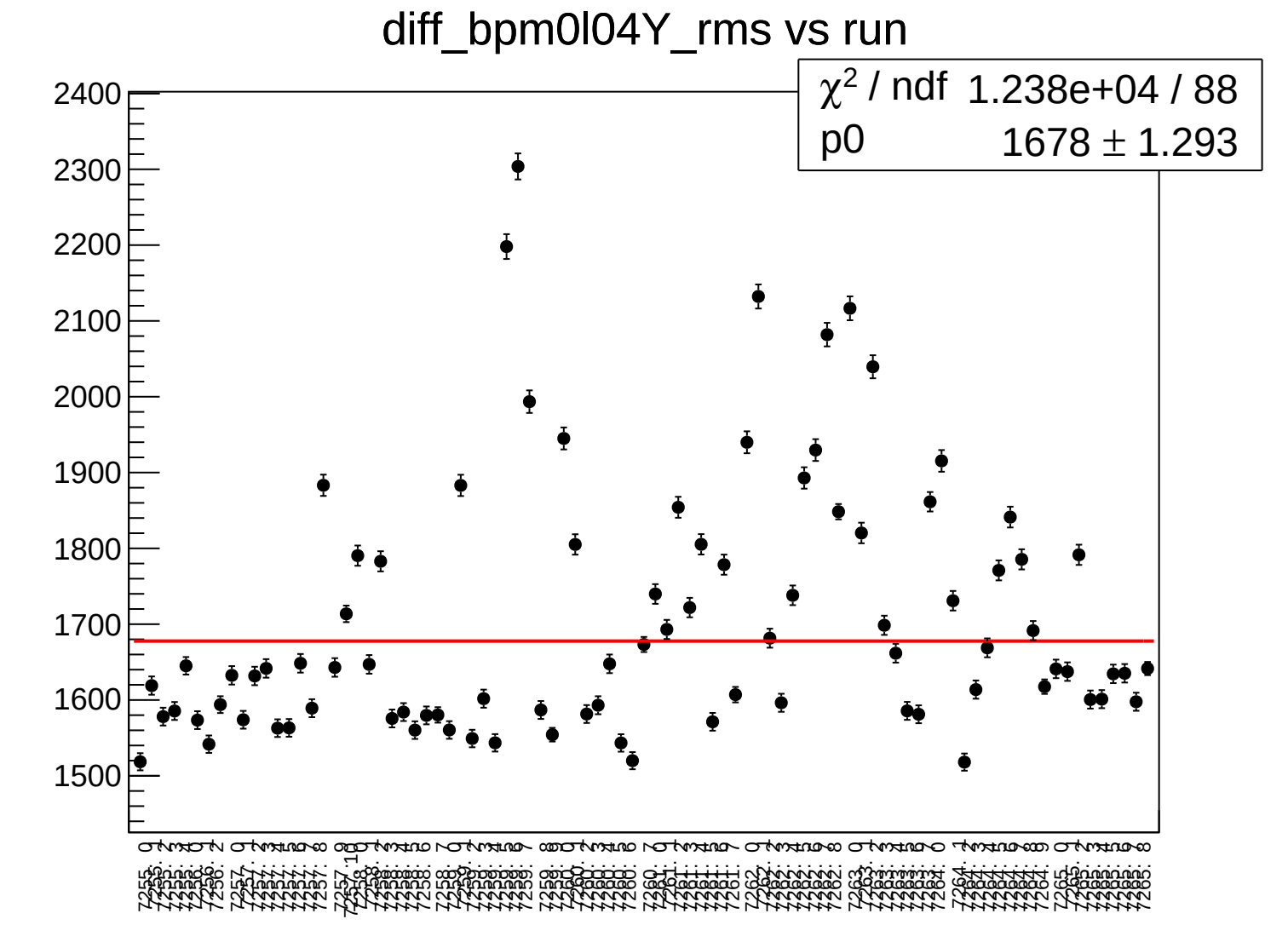

diff_bpm0l04X_mean vs run
χ² / ndf 83.91 / 88
p0 −7.267 ± 2.629
100
50
0
−50
−100
pull
Entries 89
Mean −370.8
Std Dev 0
2
1
0
−1
−2

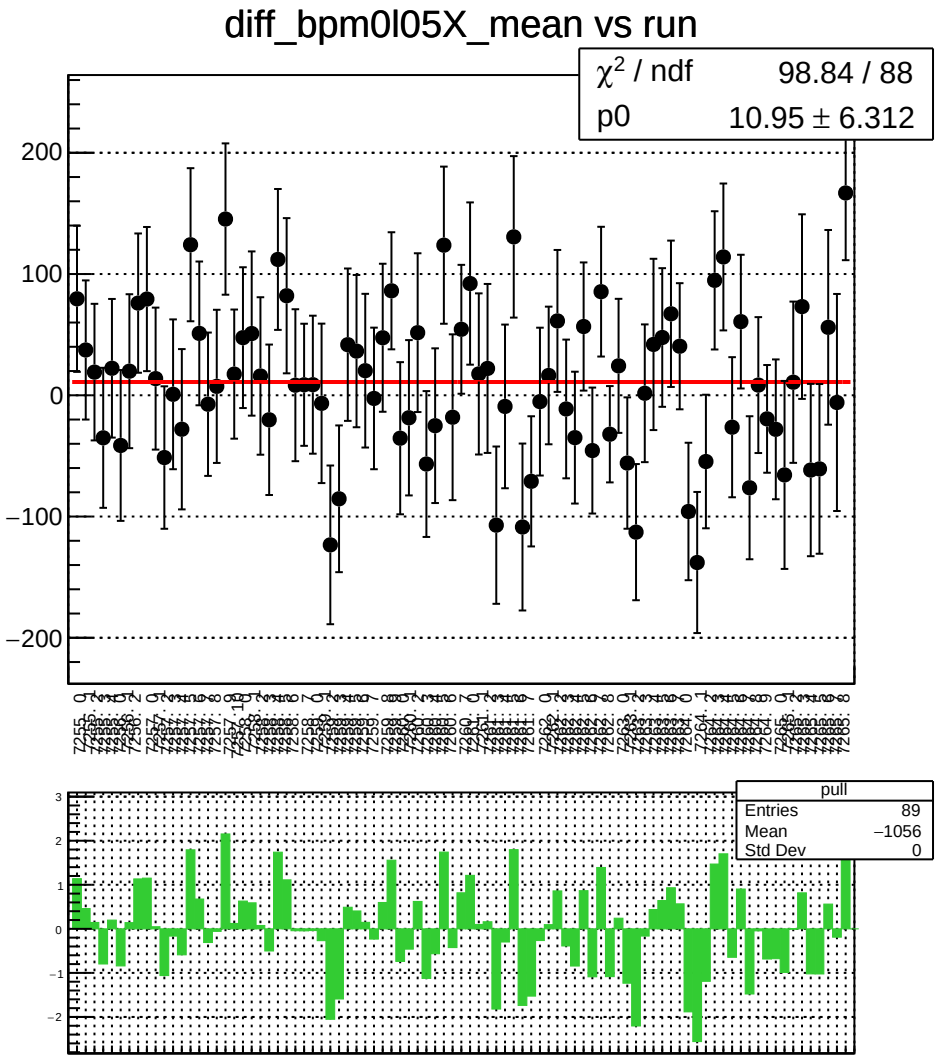

pull1D
Entries 89
Mean −0.01067
Std Dev 0.9709
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

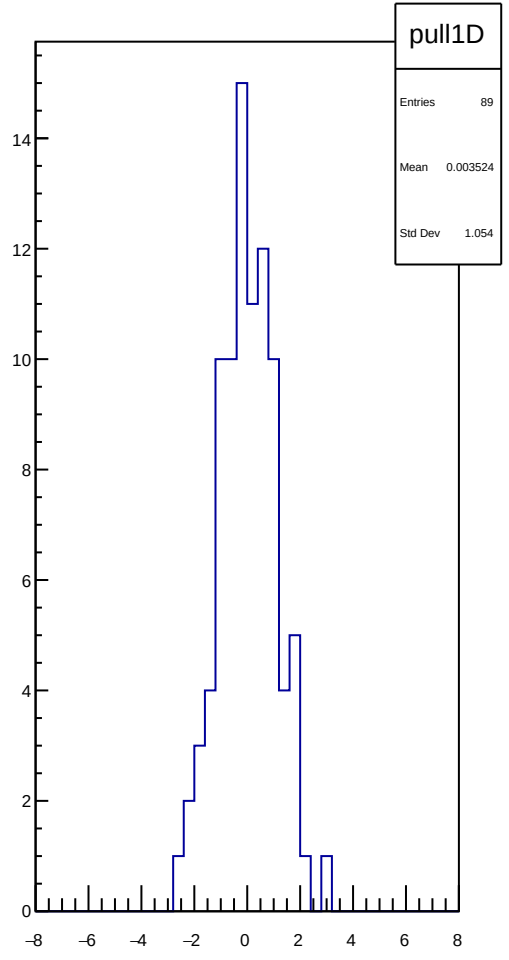

diff_bpm0l04X_rms vs run
χ² / ndf 1709 / 88
p0 2419 ± 1.859
2700
2600
2500
2400
2300
2200

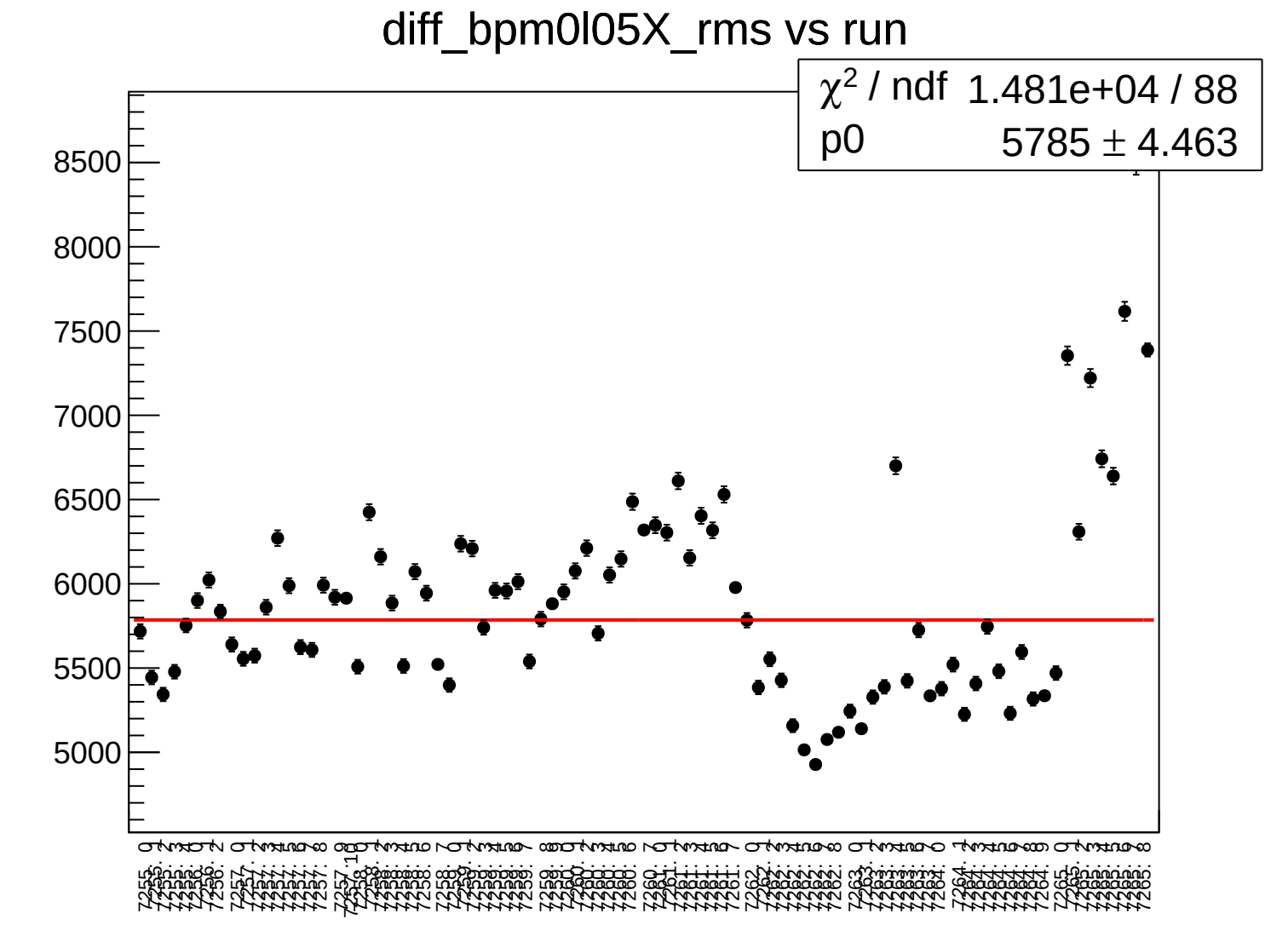

diff_bpm0l04Y_mean vs run
χ² / ndf 85.12 / 88
p0 −0.7454 ± 1.829
pull
Entries 89
Mean −413.6
Std Dev 0

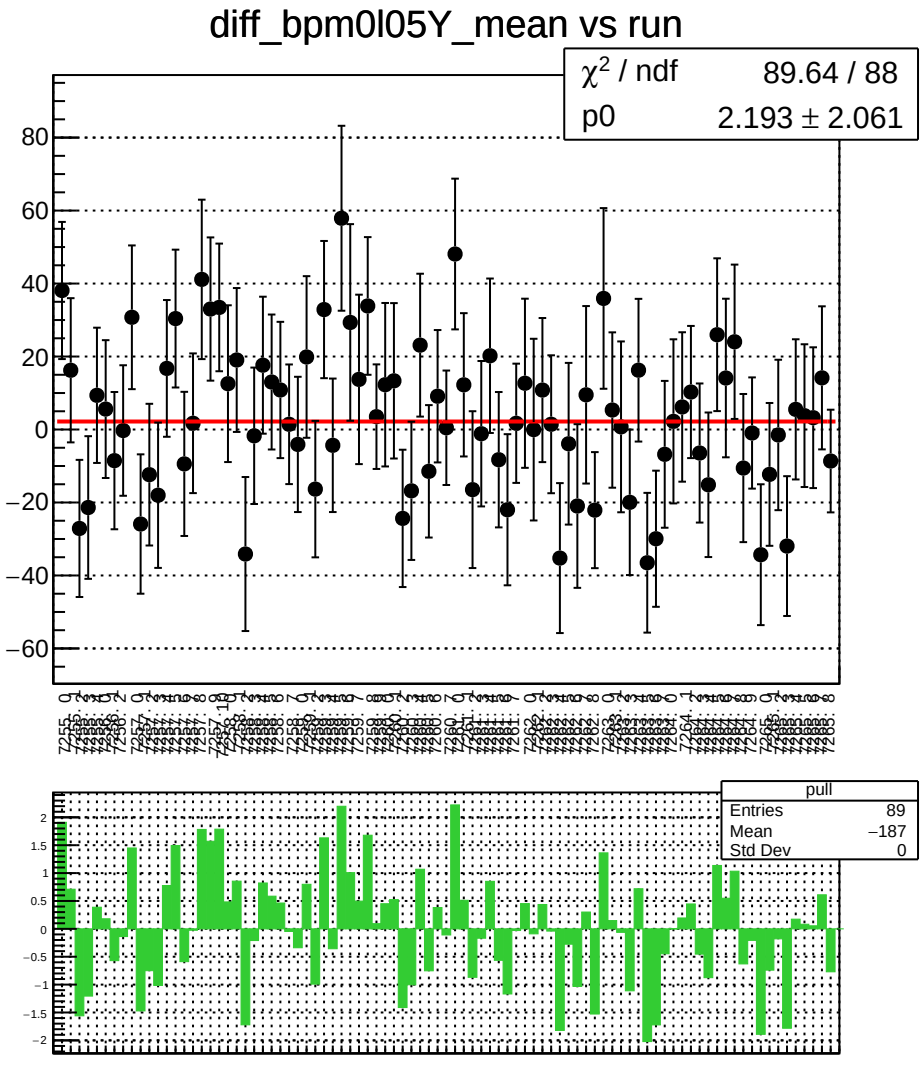

pull1D
Entries 89
Mean −0.008322
Std Dev 0.9779

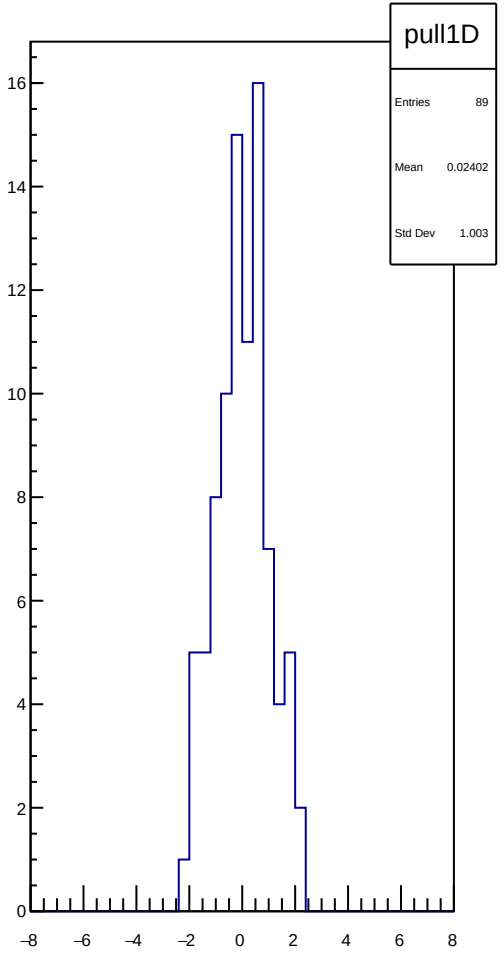

diff_bpm0l04Y_rms vs run
χ² / ndf 1.238e+04 / 88
p0 1678 ± 1.293
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500

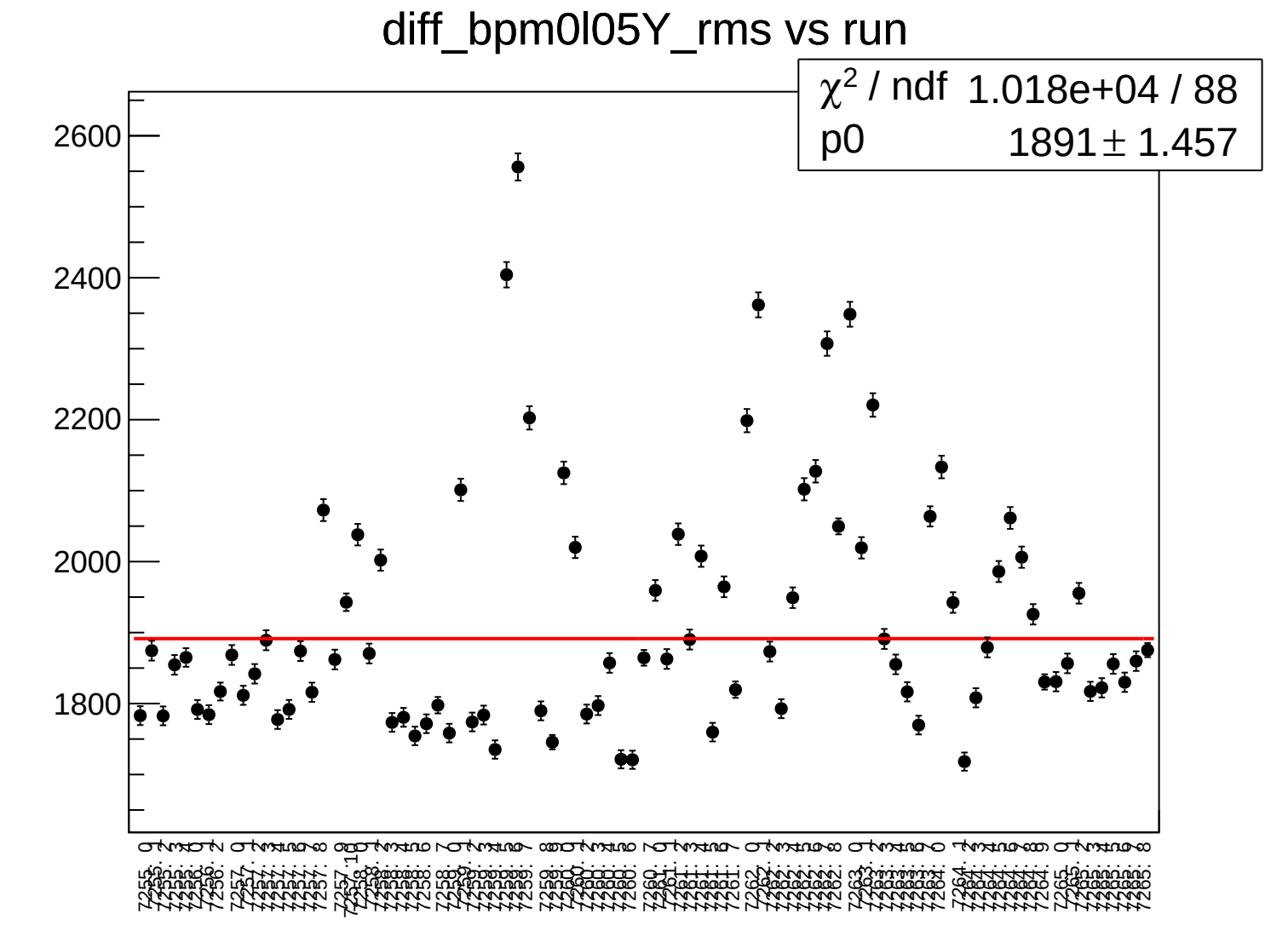

diff_bpm0l05X_mean vs run
χ^2 / ndf 98.84 / 88
p0 10.95 ± 6.312
200
100
0
−100
−200
pull
Entries 89
Mean −1056
Std Dev 0
3
2
1
0
−1
−2

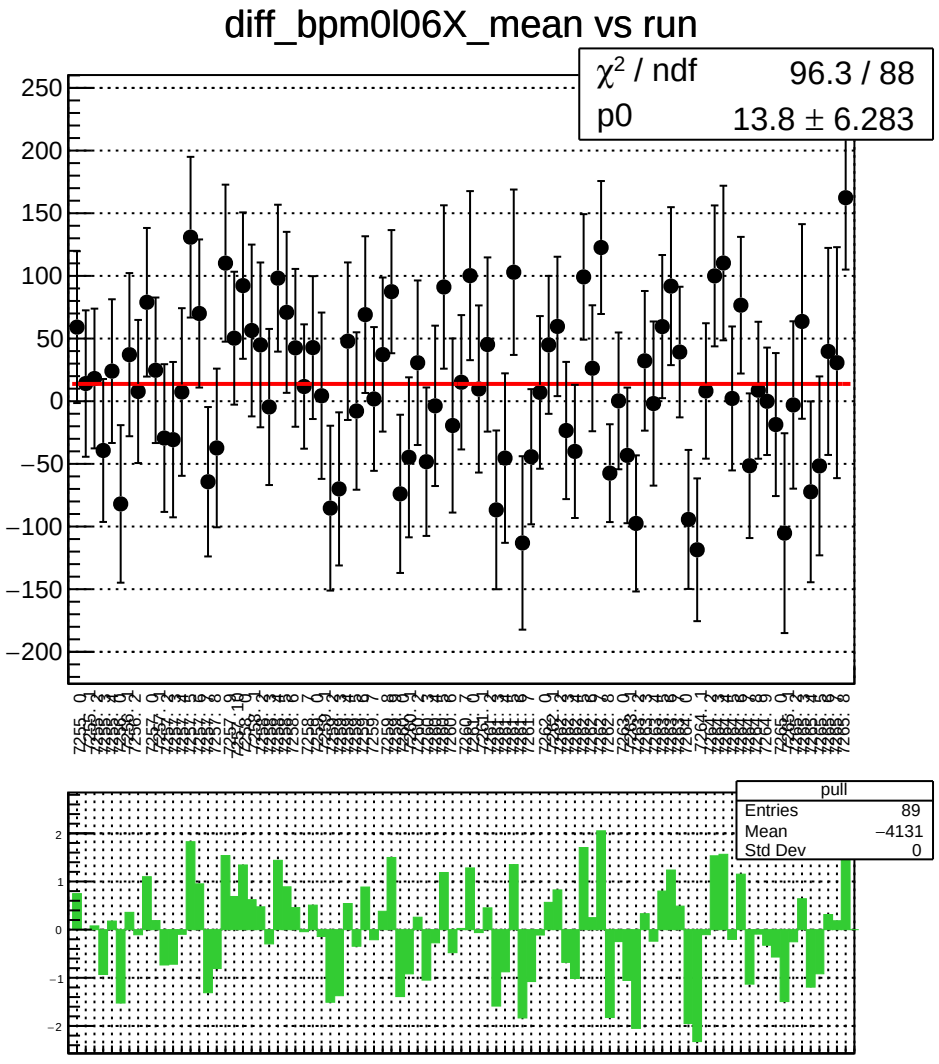

pull1D
Entries 89
Mean 0.003524
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

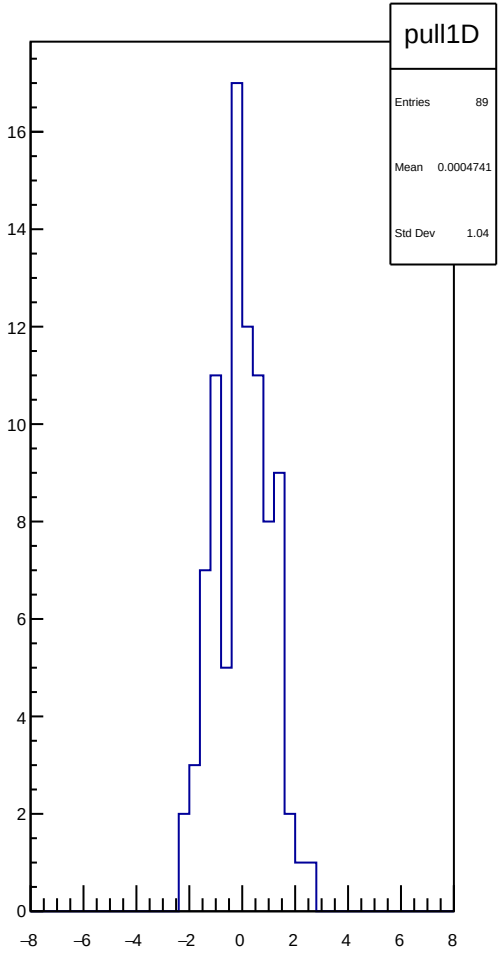

diff_bpm0l05X_rms vs run
χ^2 / ndf 1.481e+04 / 88
p0 5785 ± 4.463
8500
8000
7500
7000
6500
6000
5500
5000

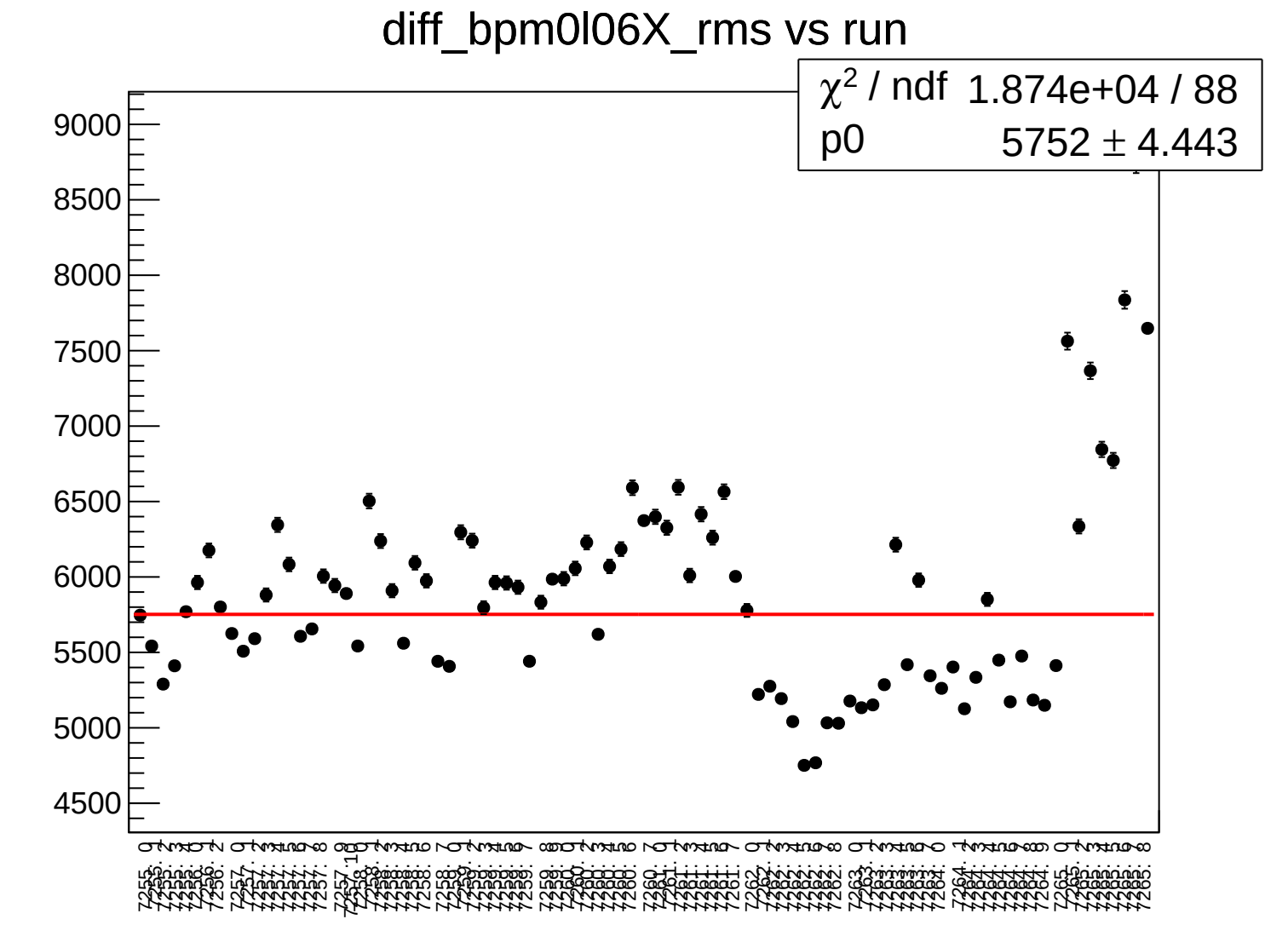

diff_bpm0l05Y_mean vs run
χ^2 / ndf 89.64 / 88
p0 2.193 ± 2.061
pull
Entries 89
Mean −187
Std Dev 0

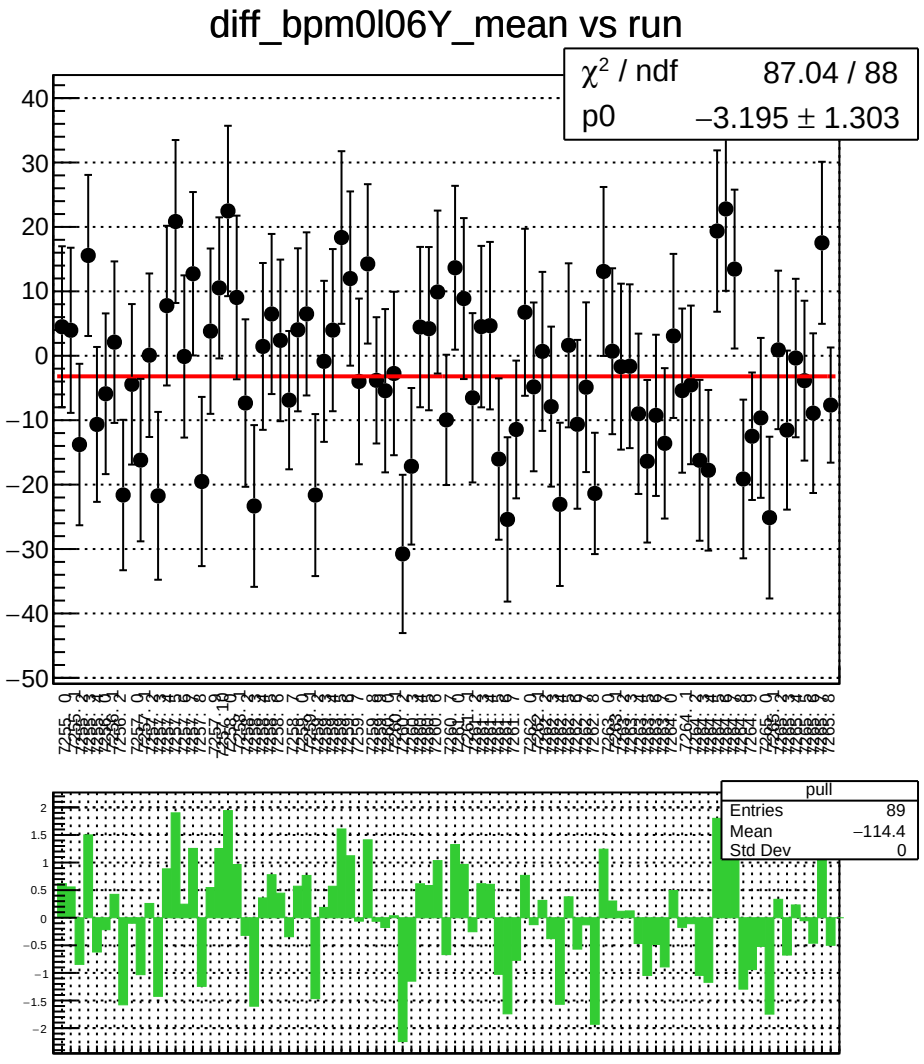

pull1D
Entries 89
Mean 0.02402
Std Dev 1.003

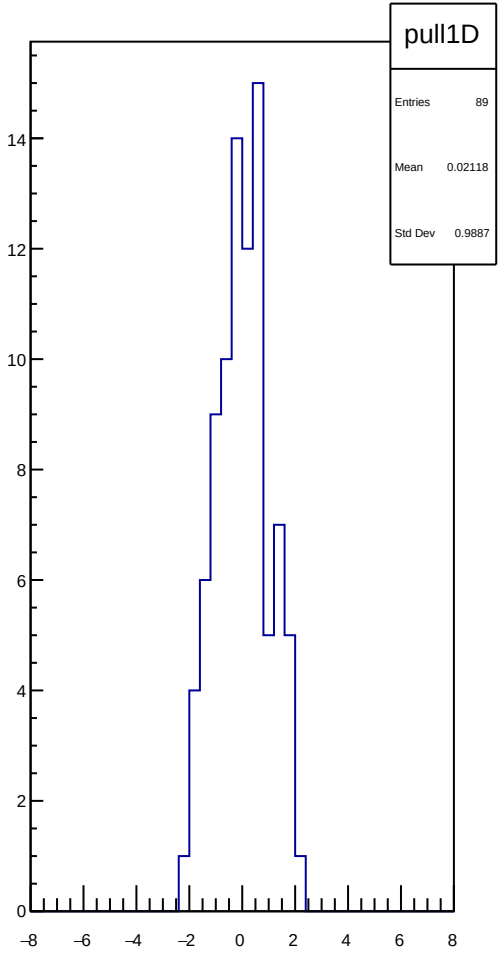

diff_bpm0l05Y_rms vs run
χ² / ndf 1.018e+04 / 88
p0 1891 ± 1.457
2600
2400
2200
2000
1800

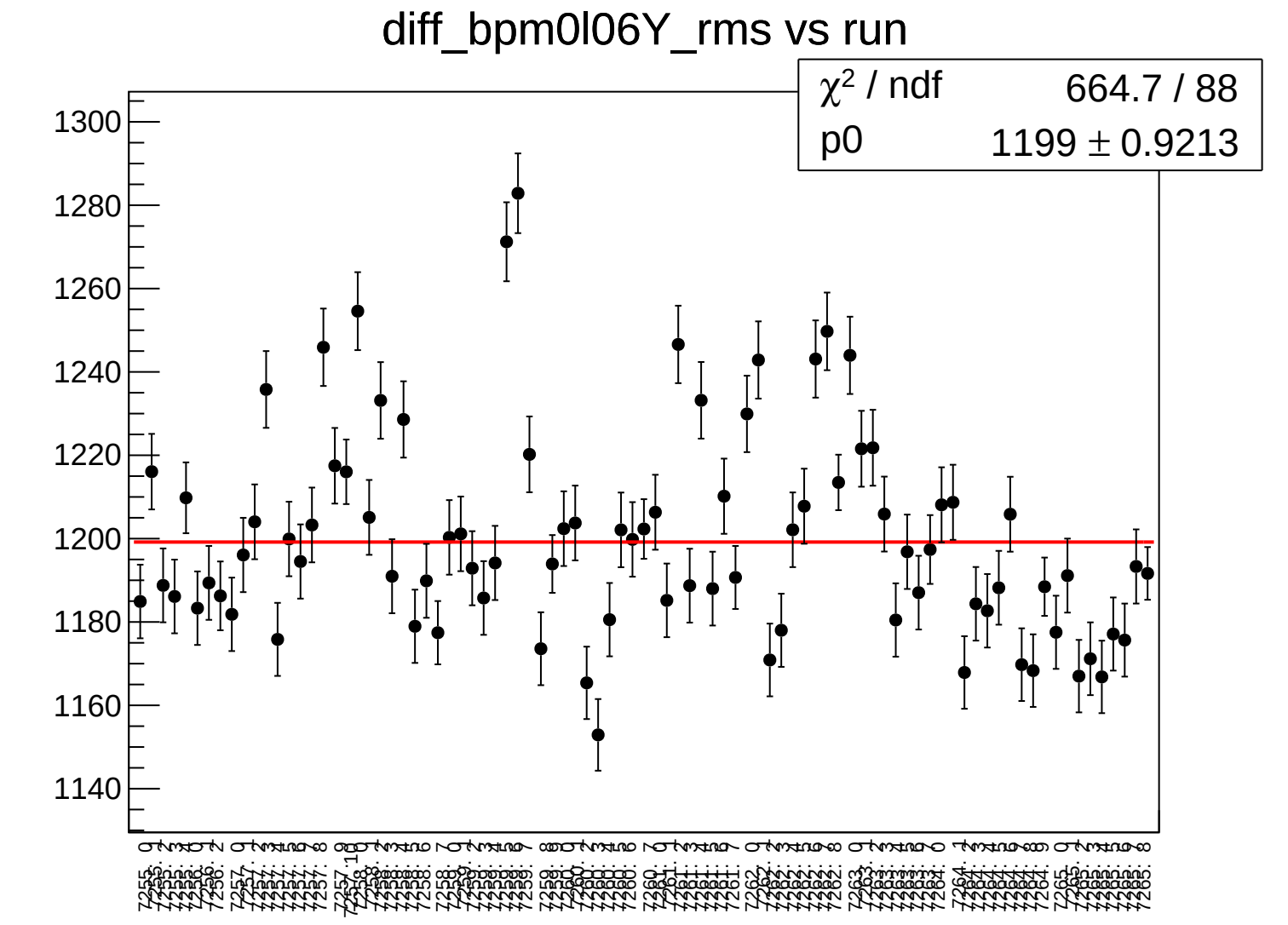

diff_bpm0l06X_mean vs run
χ² / ndf 96.3 / 88
p0 13.8 ± 6.283
pull
Entries 89
Mean −4131
Std Dev 0

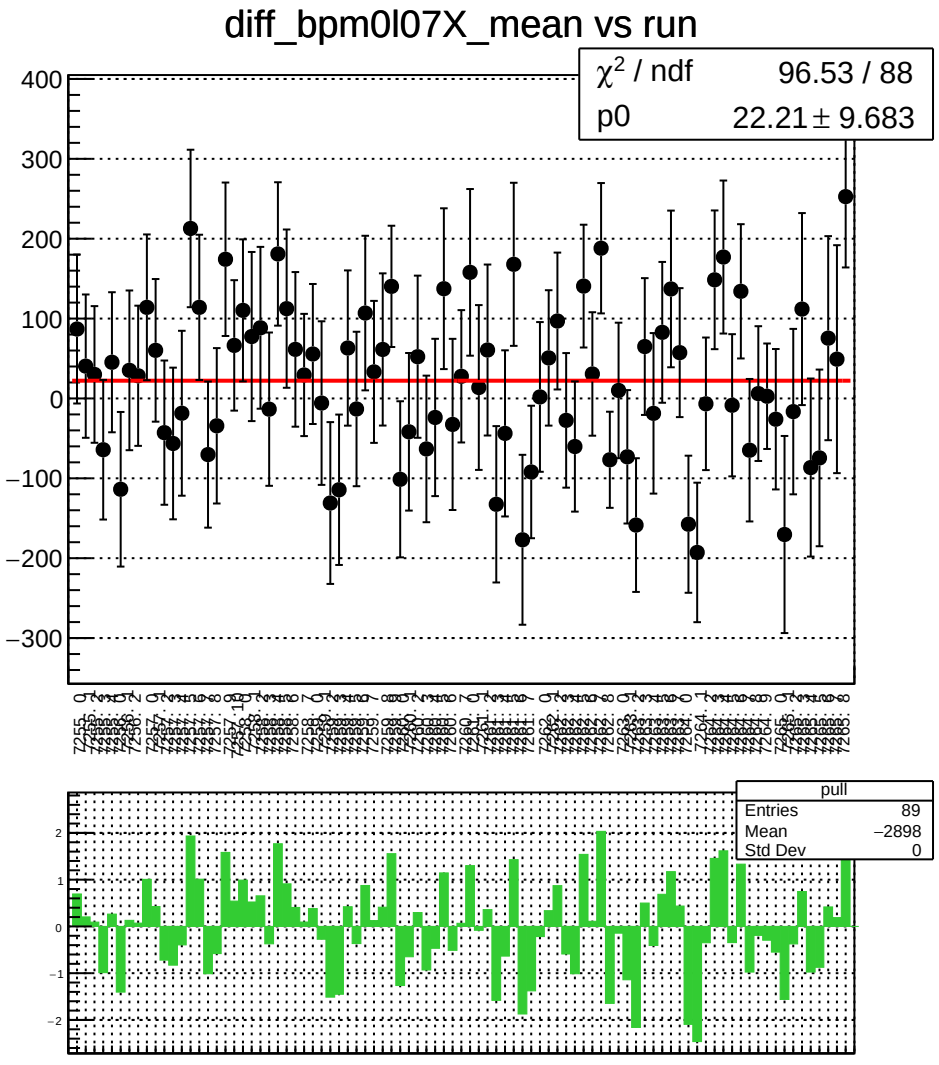

pull1D
Entries 89
Mean 0.0004741
Std Dev 1.04

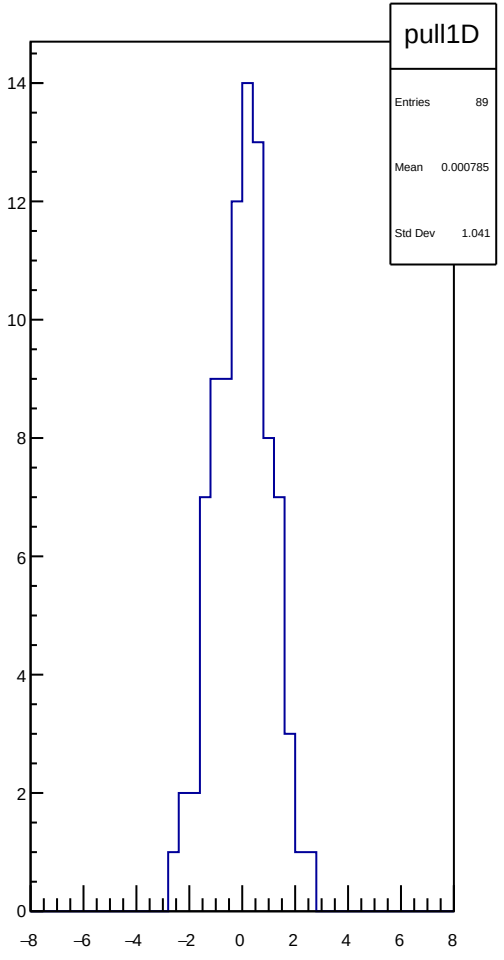

diff_bpm0l06X_rms vs run
χ² / ndf 1.874e+04 / 88
p0 5752 ± 4.443
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500

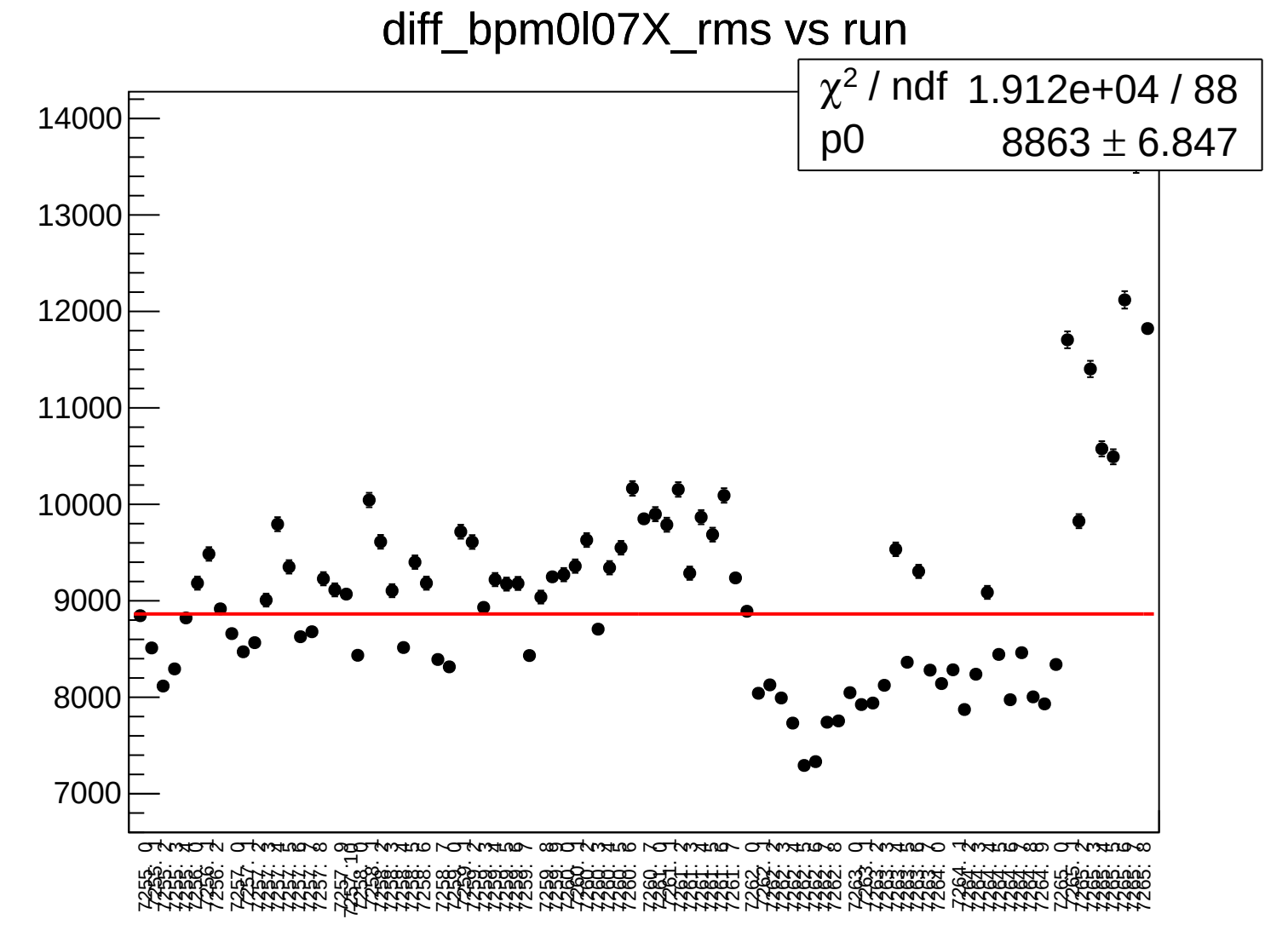

diff_bpm0l06Y_mean vs run
χ² / ndf 87.04 / 88
p0 −3.195 ± 1.303
pull
Entries 89
Mean −114.4
Std Dev 0

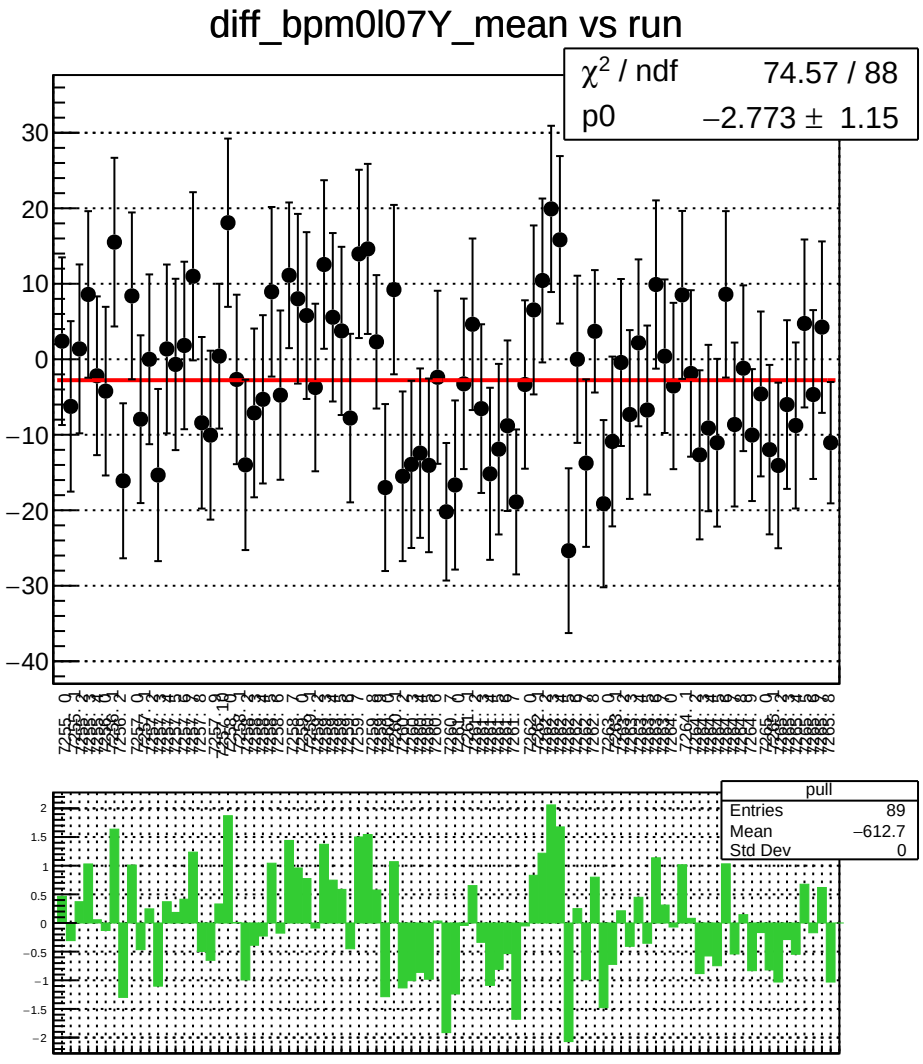

pull1D
Entries 89
Mean 0.02118
Std Dev 0.9887

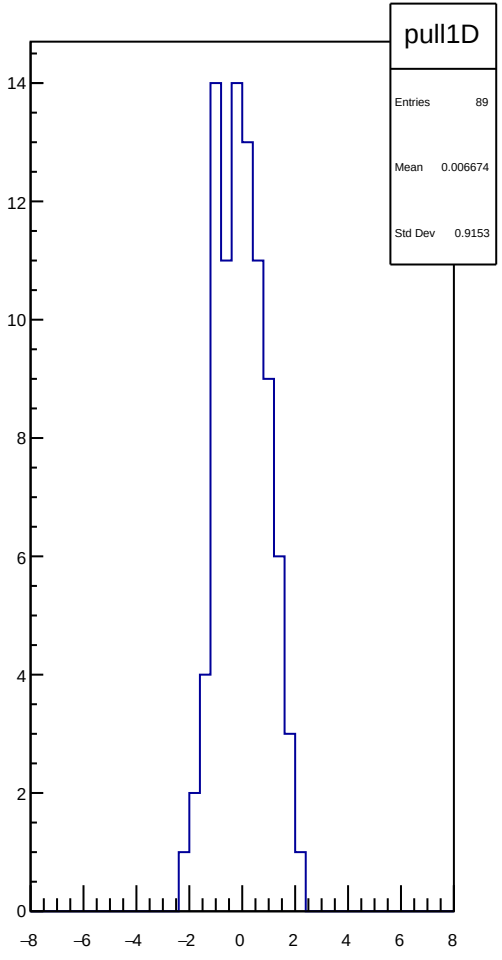

diff_bpm0l06Y_rms vs run
χ² / ndf 664.7 / 88
p0 1199 ± 0.9213
1300
1280
1260
1240
1220
1200
1180
1160
1140

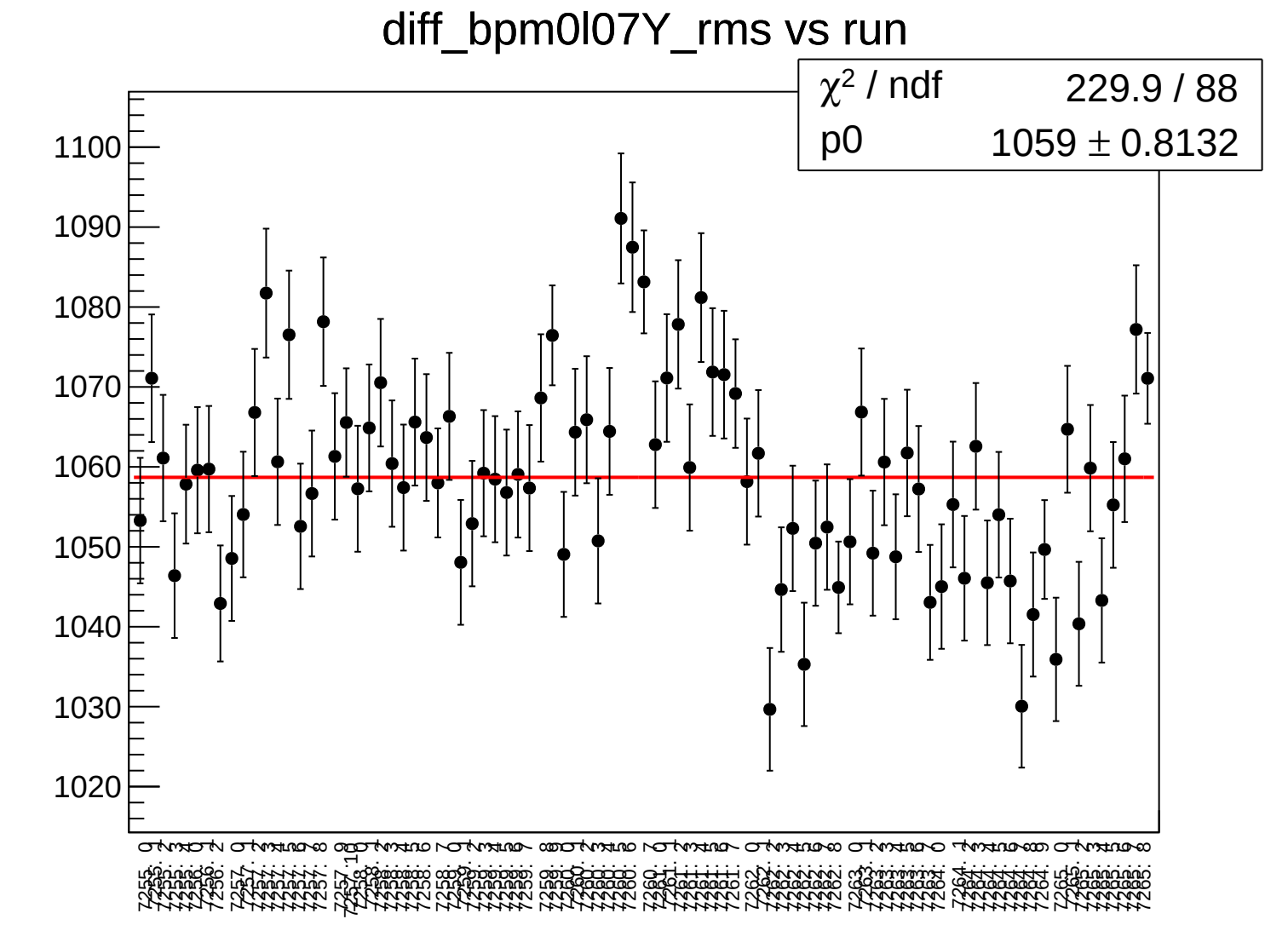

diff_bpm0l07X_mean vs run
χ^2 / ndf 96.53 / 88
p0 22.21 ± 9.683
pull
Entries 89
Mean −2898
Std Dev 0

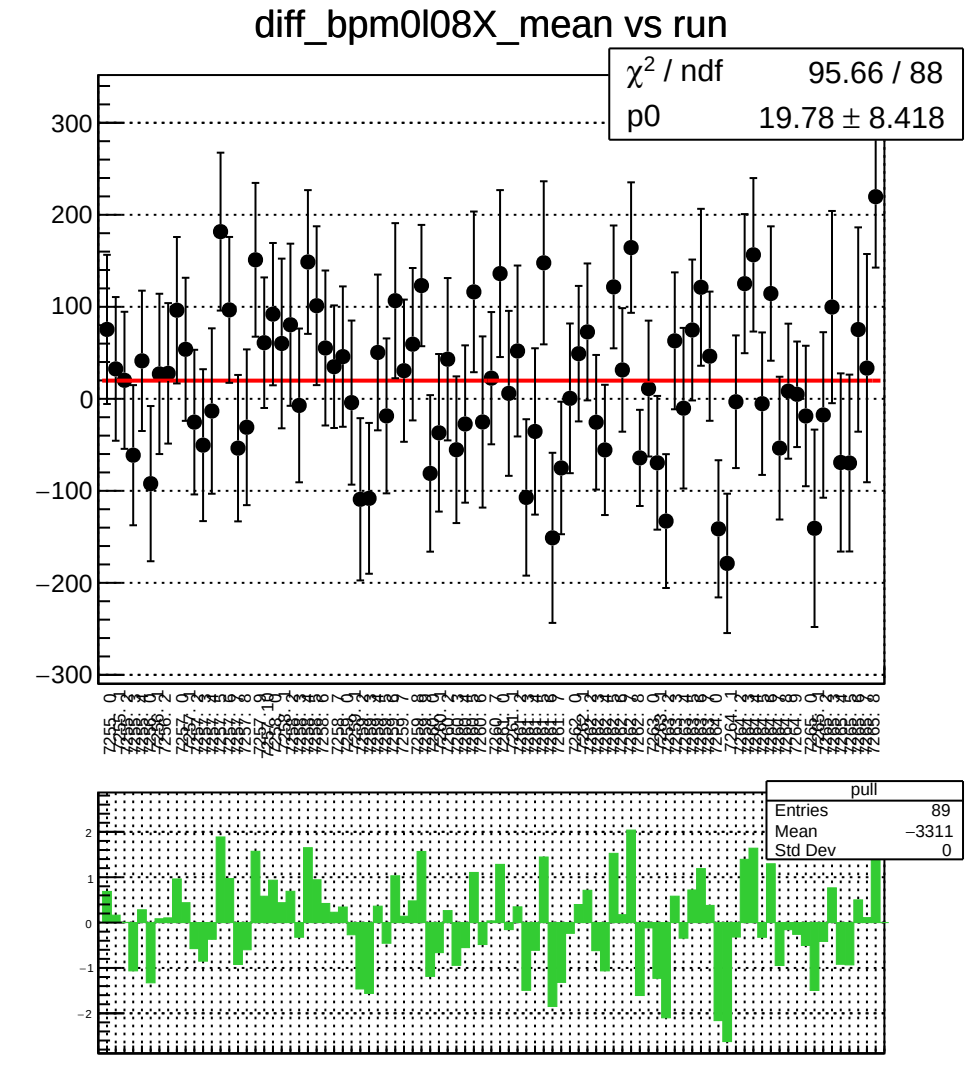

pull1D
Entries 89
Mean 0.000785
Std Dev 1.041

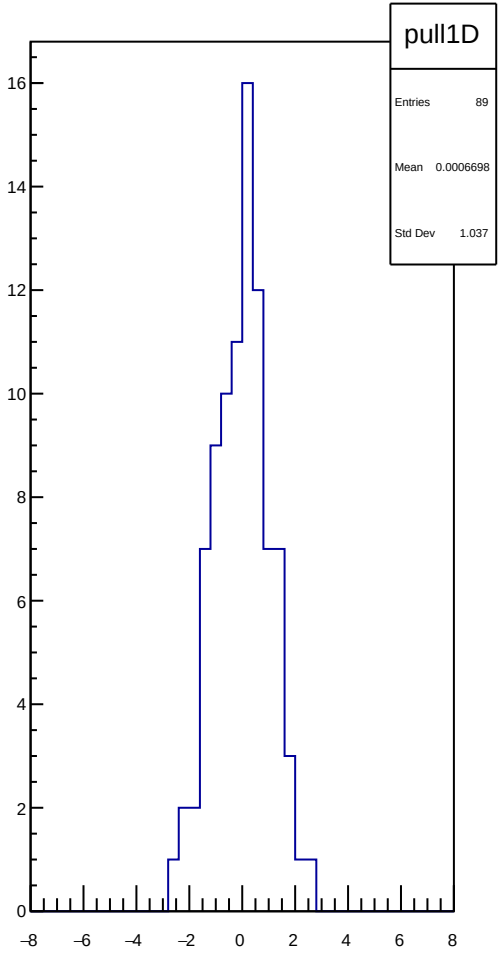

diff_bpm0l07X_rms vs run
χ² / ndf 1.912e+04 / 88
p0 8863 ± 6.847
14000
13000
12000
11000
10000
9000
8000
7000

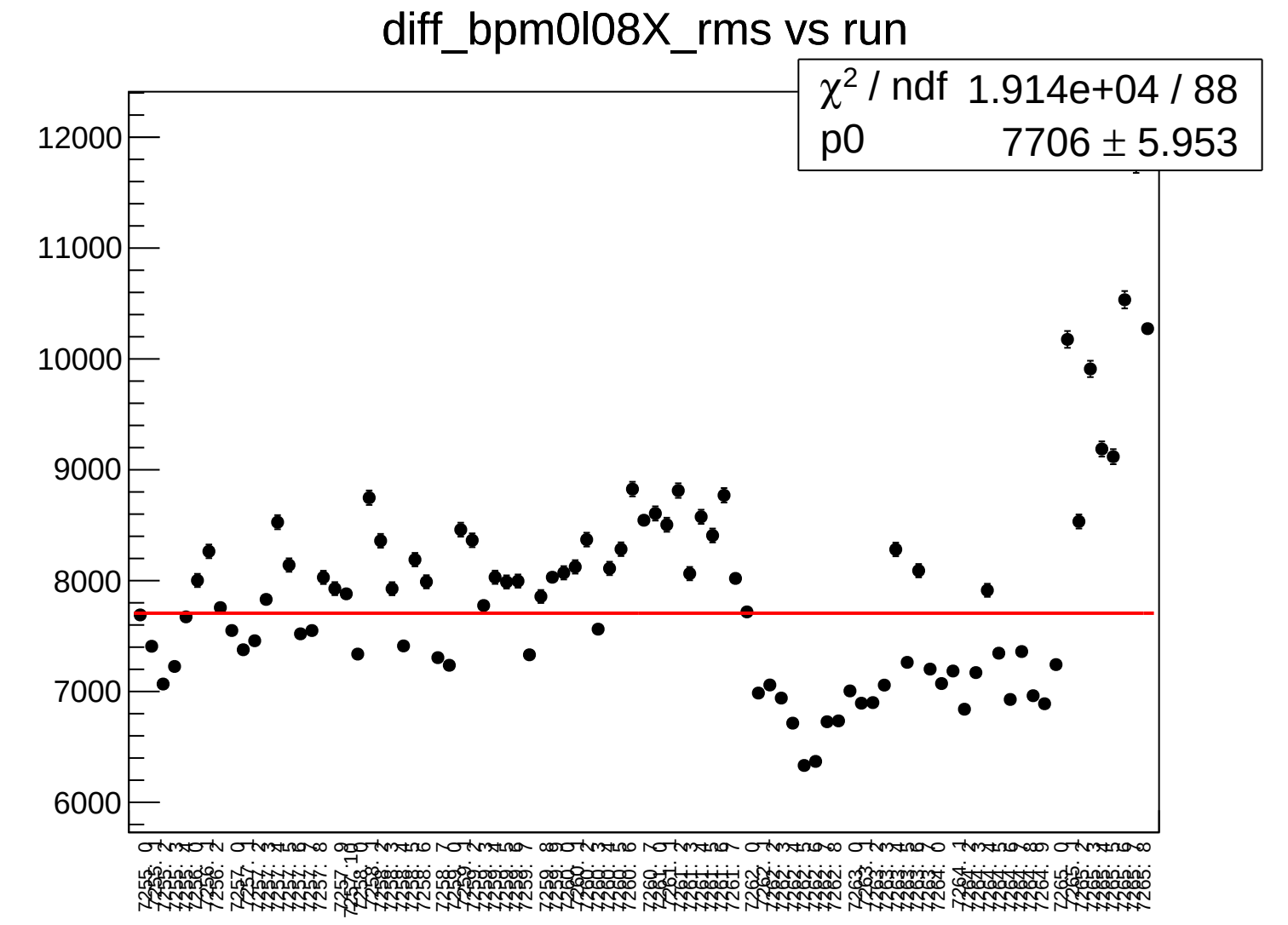

diff_bpm0l07Y_mean vs run
χ² / ndf 74.57 / 88
p0 −2.773 ± 1.15
pull
Entries 89
Mean −612.7
Std Dev 0

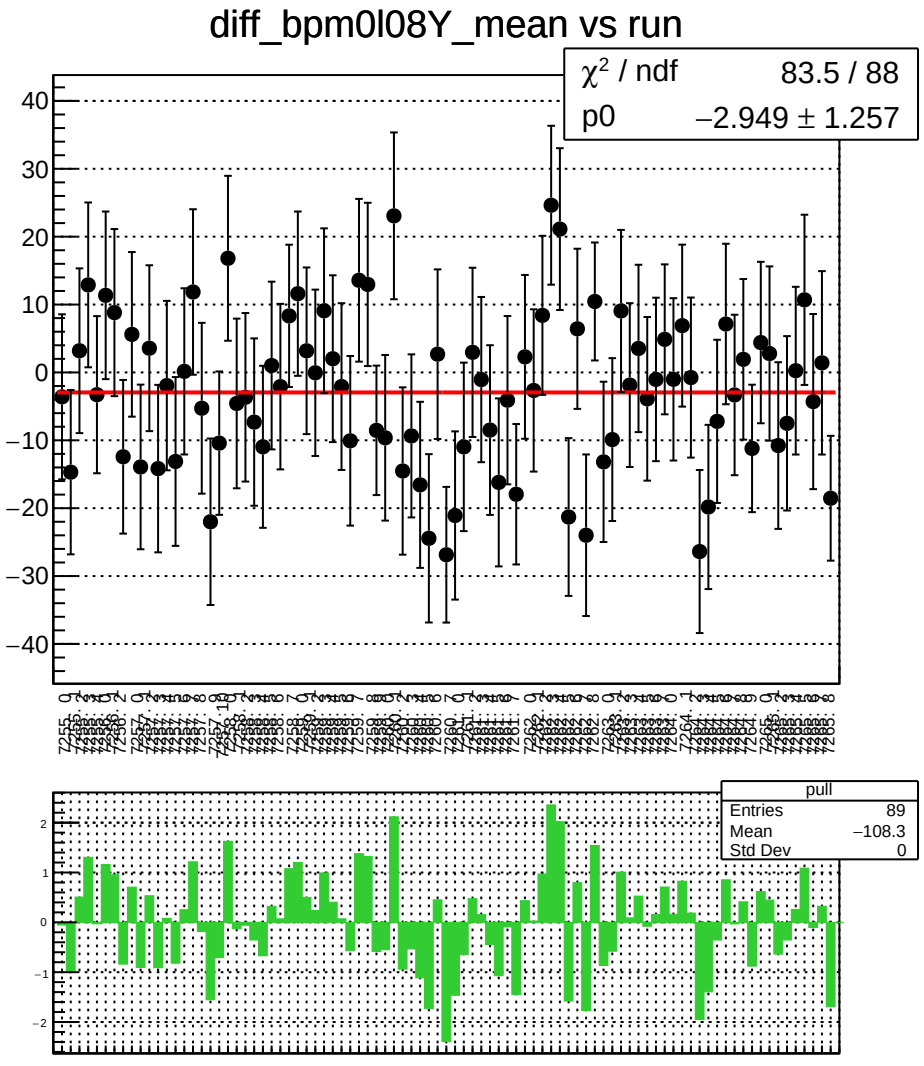

pull1D
Entries 89
Mean 0.006674
Std Dev 0.9153

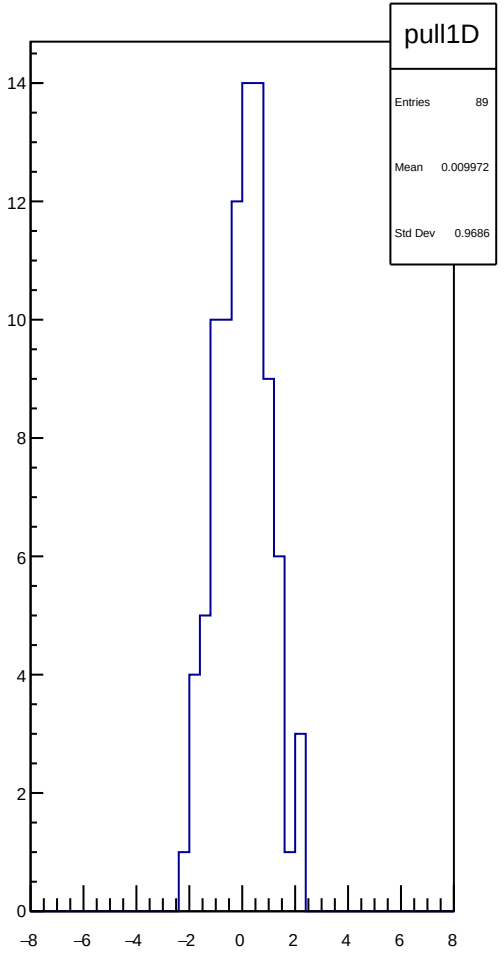

diff_bpm0l07Y_rms vs run
χ² / ndf 229.9 / 88
p0 1059 ± 0.8132
1100
1090
1080
1070
1060
1050
1040
1030
1020

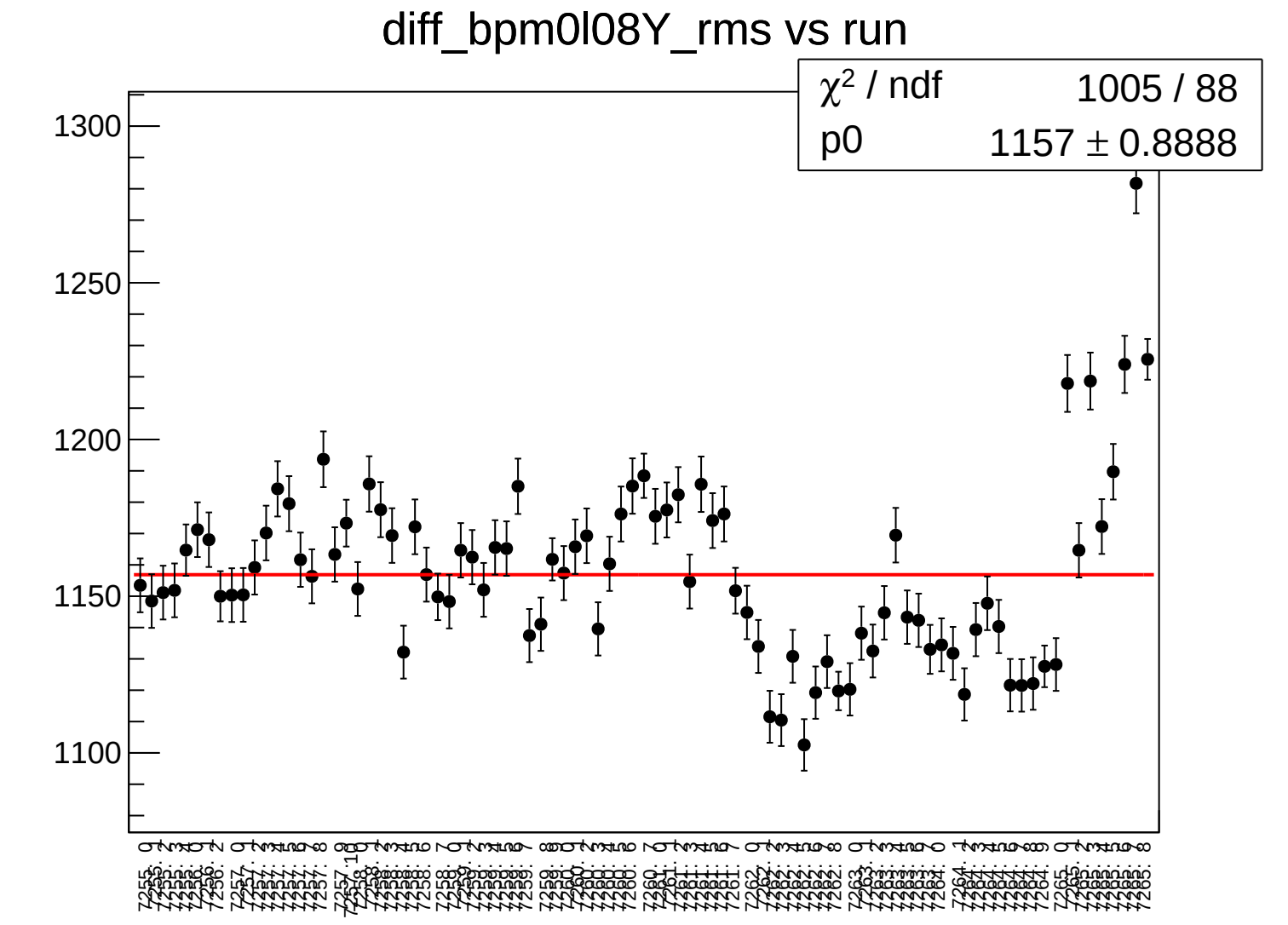

diff_bpm0l08X_mean vs run
χ² / ndf 95.66 / 88
p0 19.78 ± 8.418
pull
Entries 89
Mean −3311
Std Dev 0

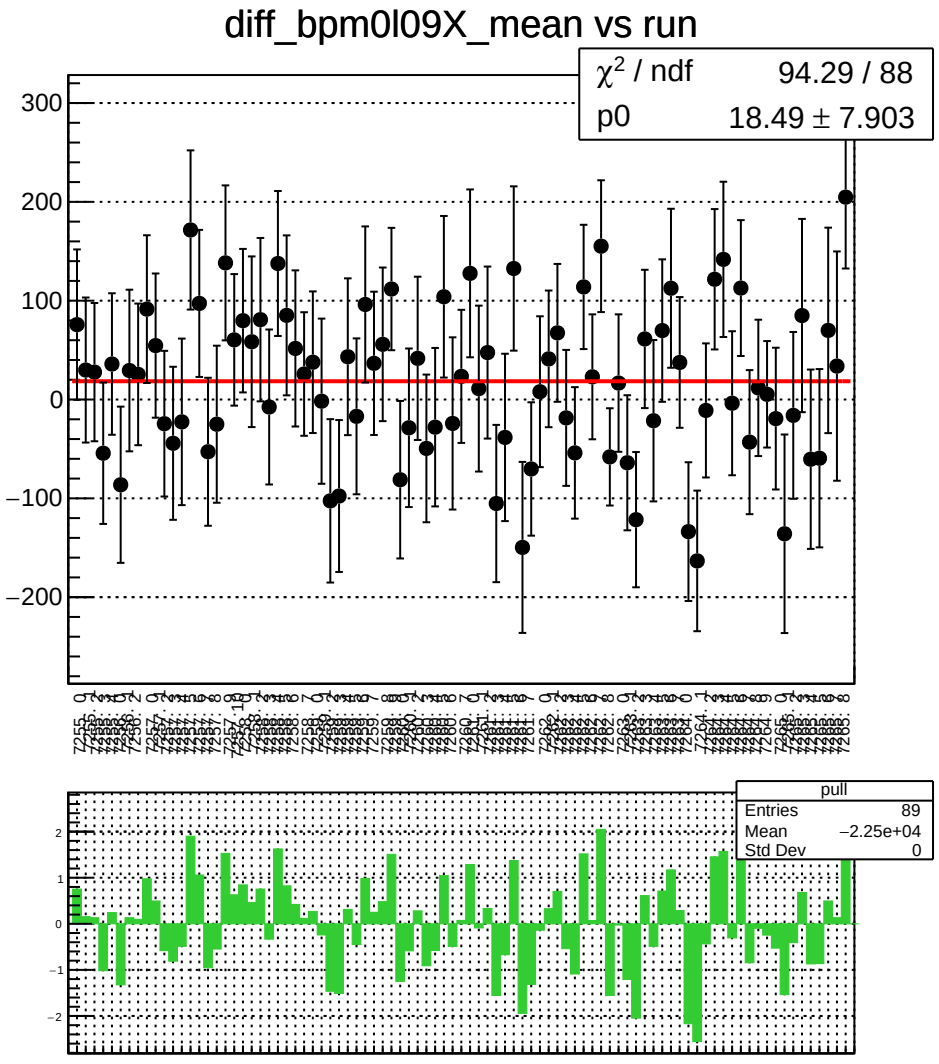

pull1D
Entries 89
Mean 0.0006698
Std Dev 1.037

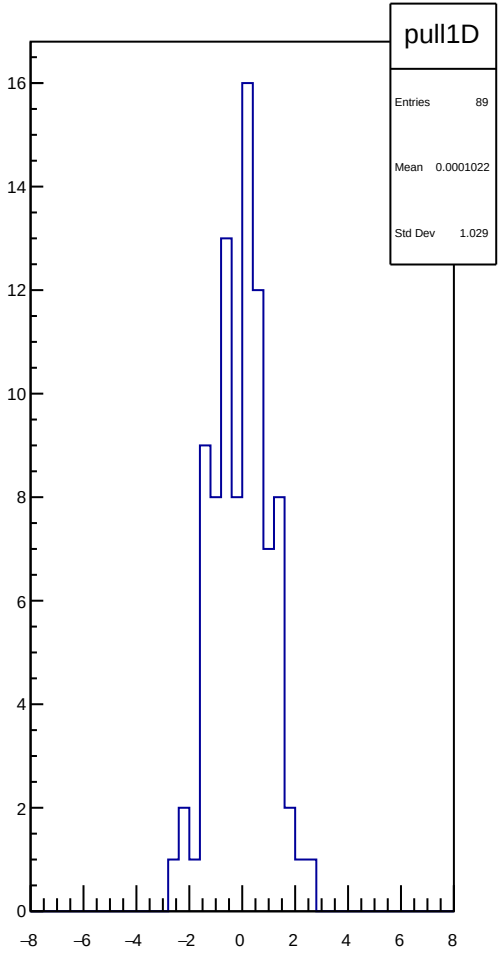

diff_bpm0l08X_rms vs run
χ² / ndf 1.914e+04 / 88
p0 7706 ± 5.953
12000
11000
10000
9000
8000
7000
6000

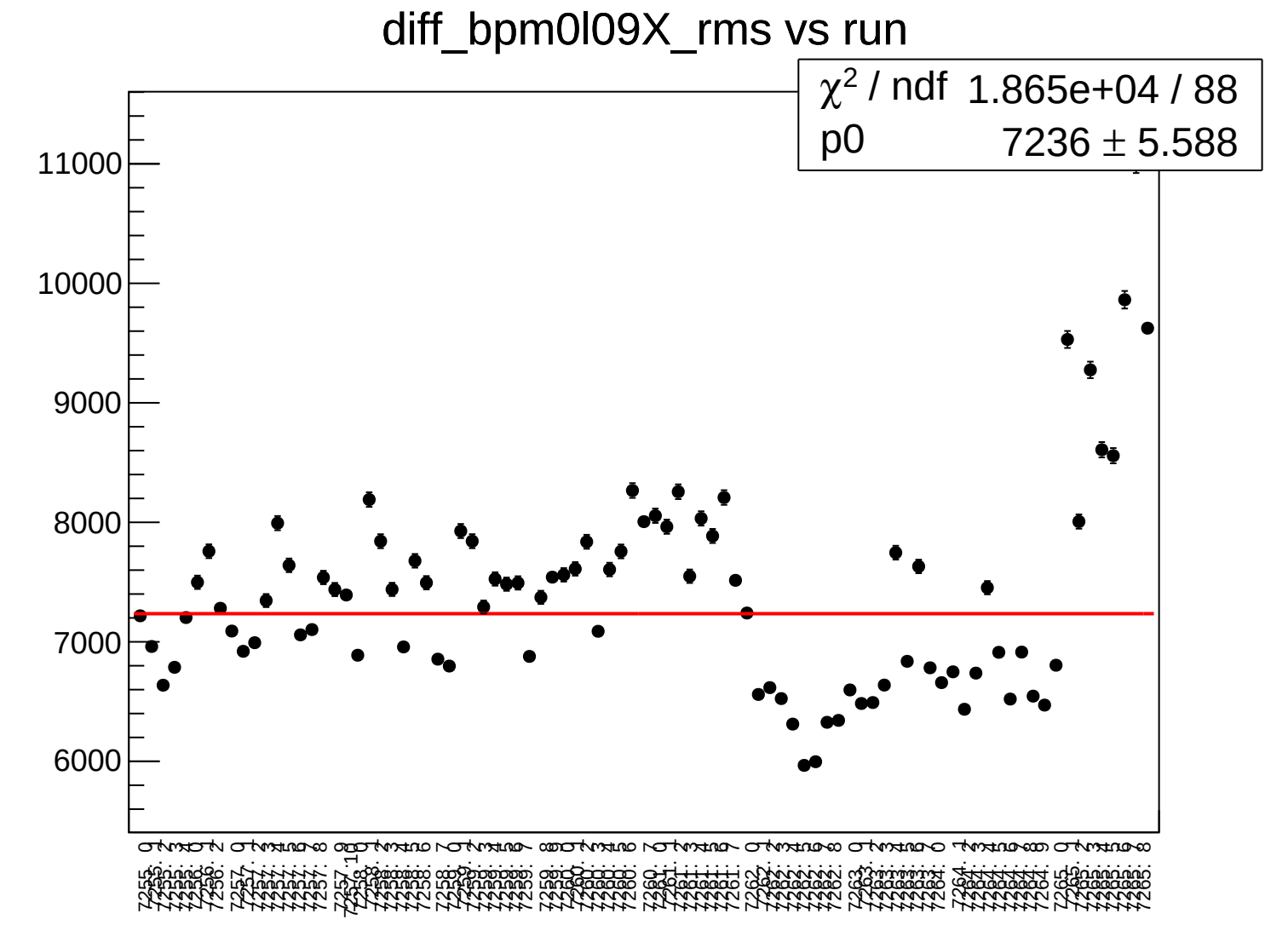

diff_bpm0l08Y_mean vs run
χ² / ndf 83.5 / 88
p0 −2.949 ± 1.257
pull
Entries 89
Mean −108.3
Std Dev 0

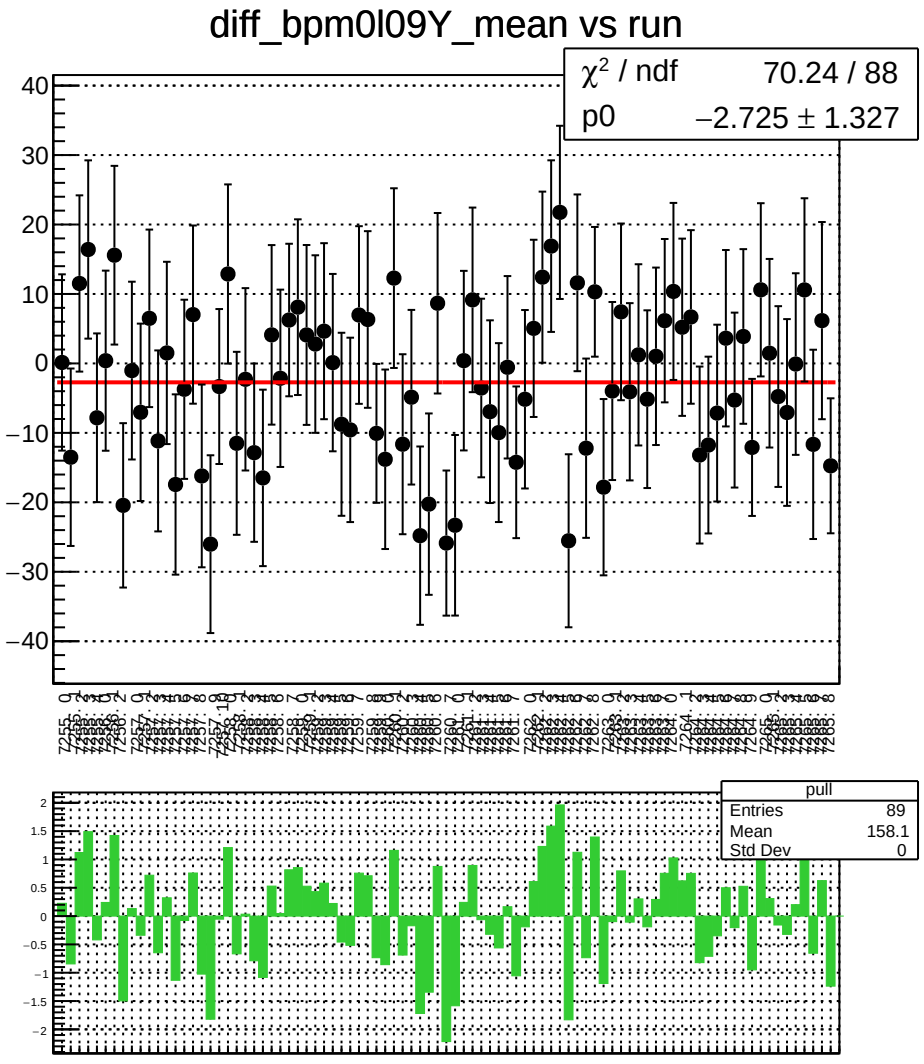

pull1D
Entries 89
Mean 0.009972
Std Dev 0.9686

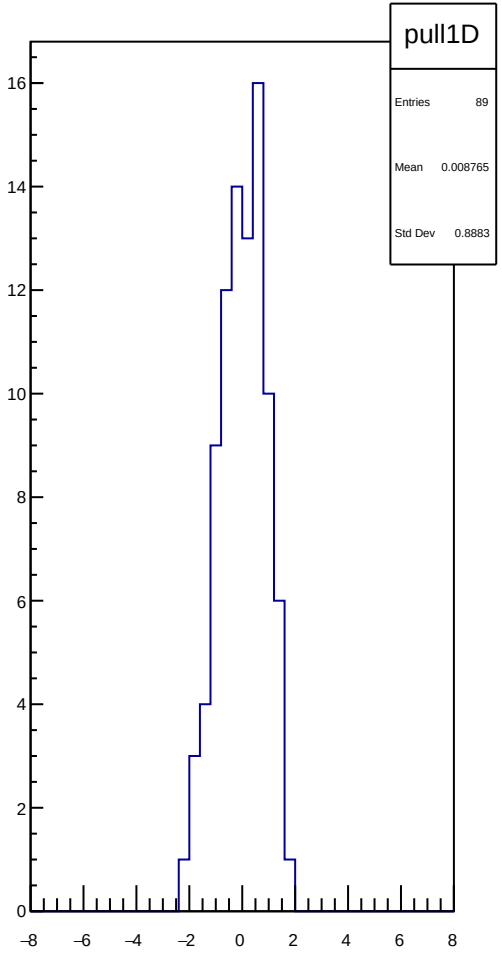

diff_bpm0l08Y_rms vs run
χ² / ndf 1005 / 88
p0 1157 ± 0.8888
1300
1250
1200
1150
1100

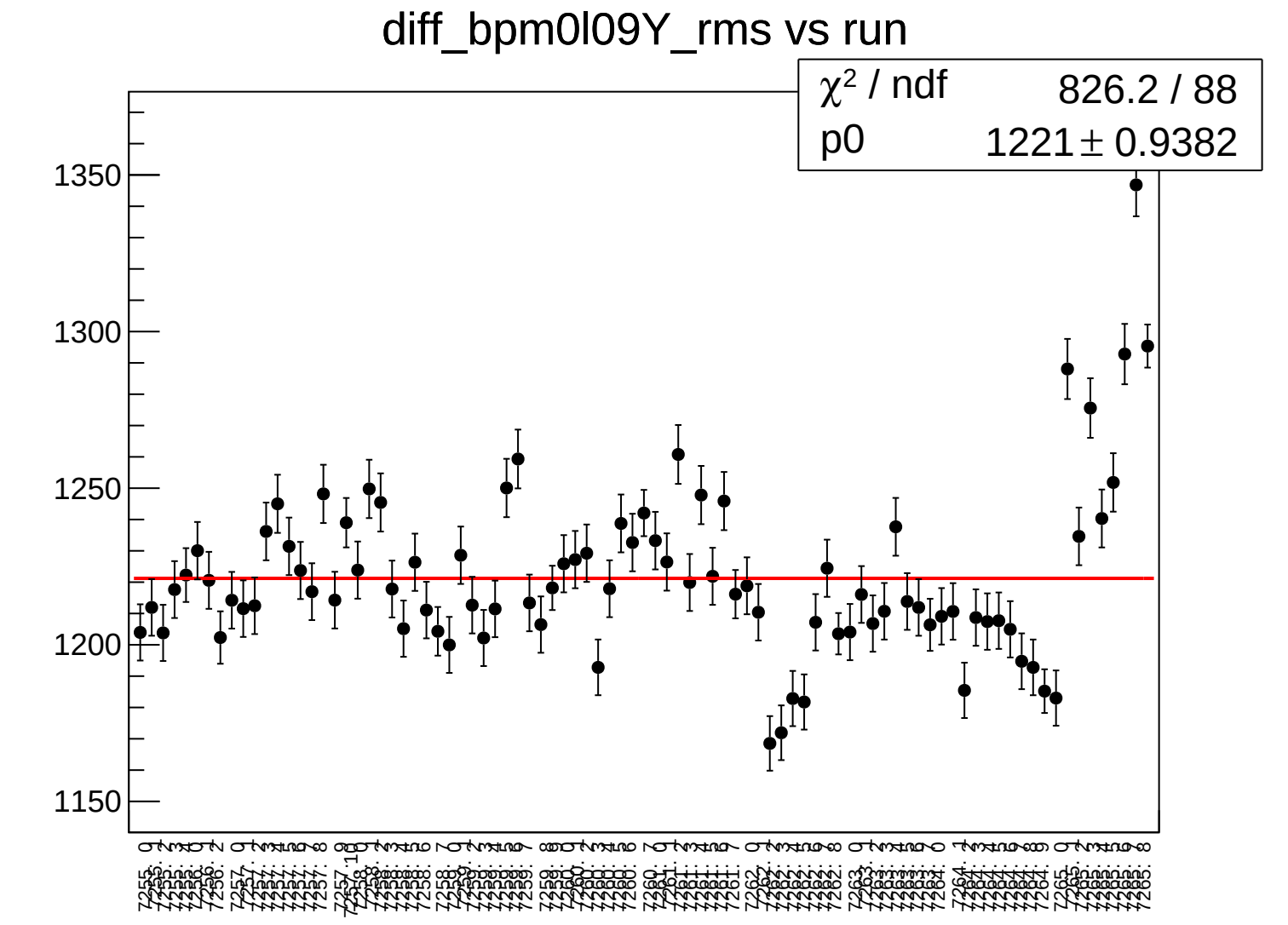

diff_bpm0l09X_mean vs run
χ^2 / ndf 94.29 / 88
p0 18.49 ± 7.903
pull
Entries 89
Mean −2.25e+04
Std Dev 0

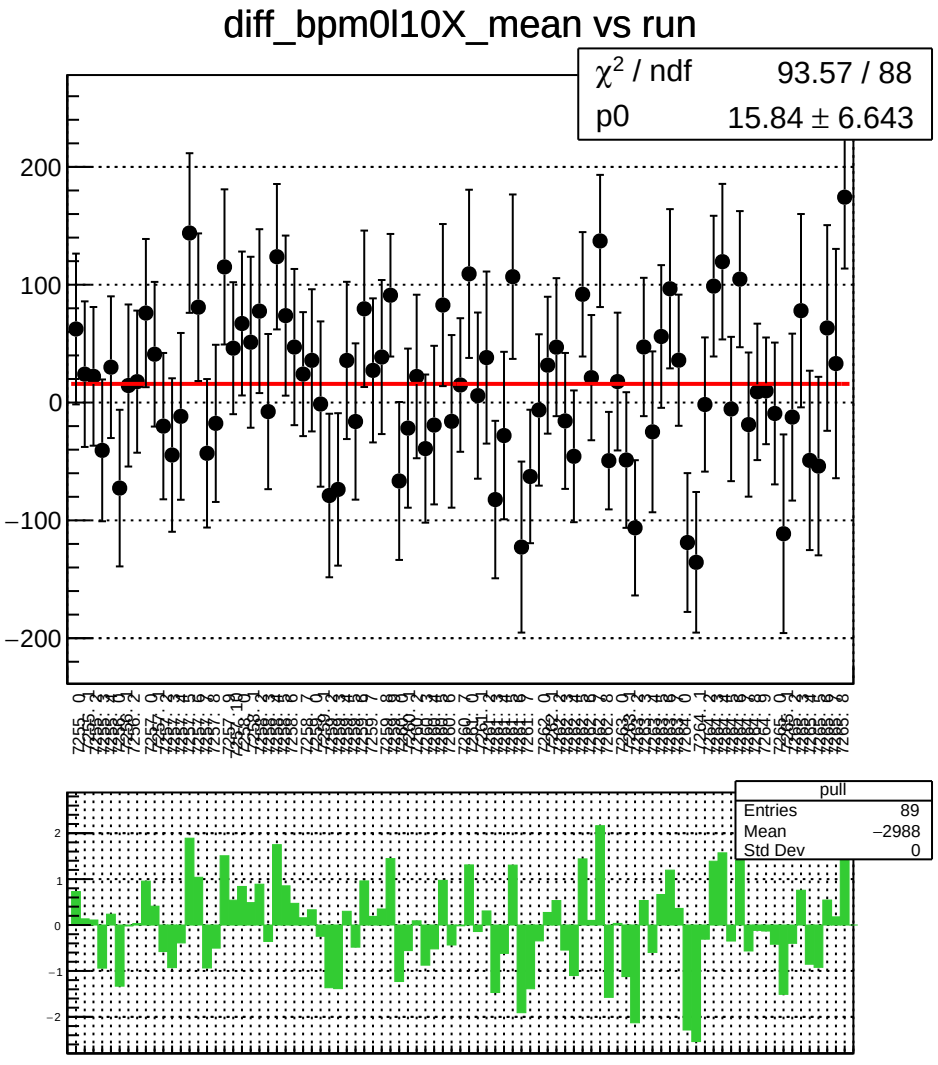

pull1D
Entries 89
Mean 0.0001022
Std Dev 1.029

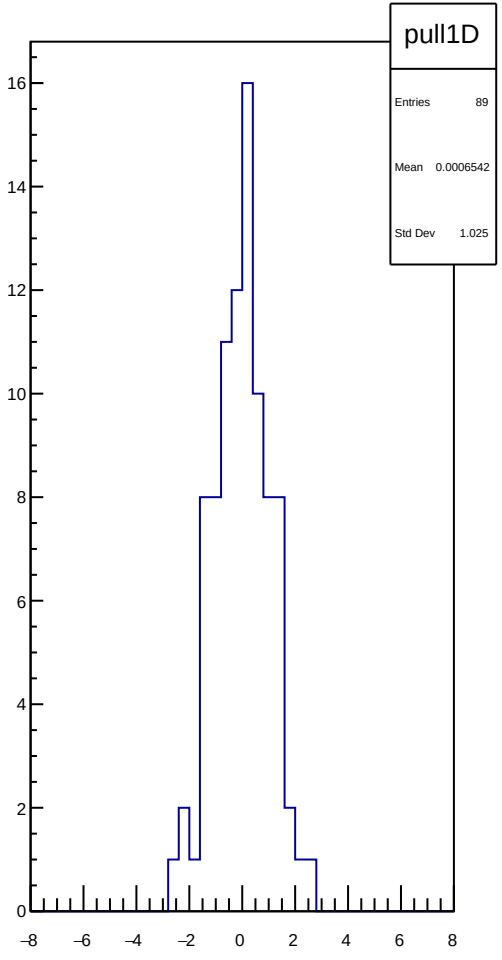

diff_bpm0l09X_rms vs run
χ² / ndf 1.865e+04 / 88
p0 7236 ± 5.588
11000
10000
9000
8000
7000
6000

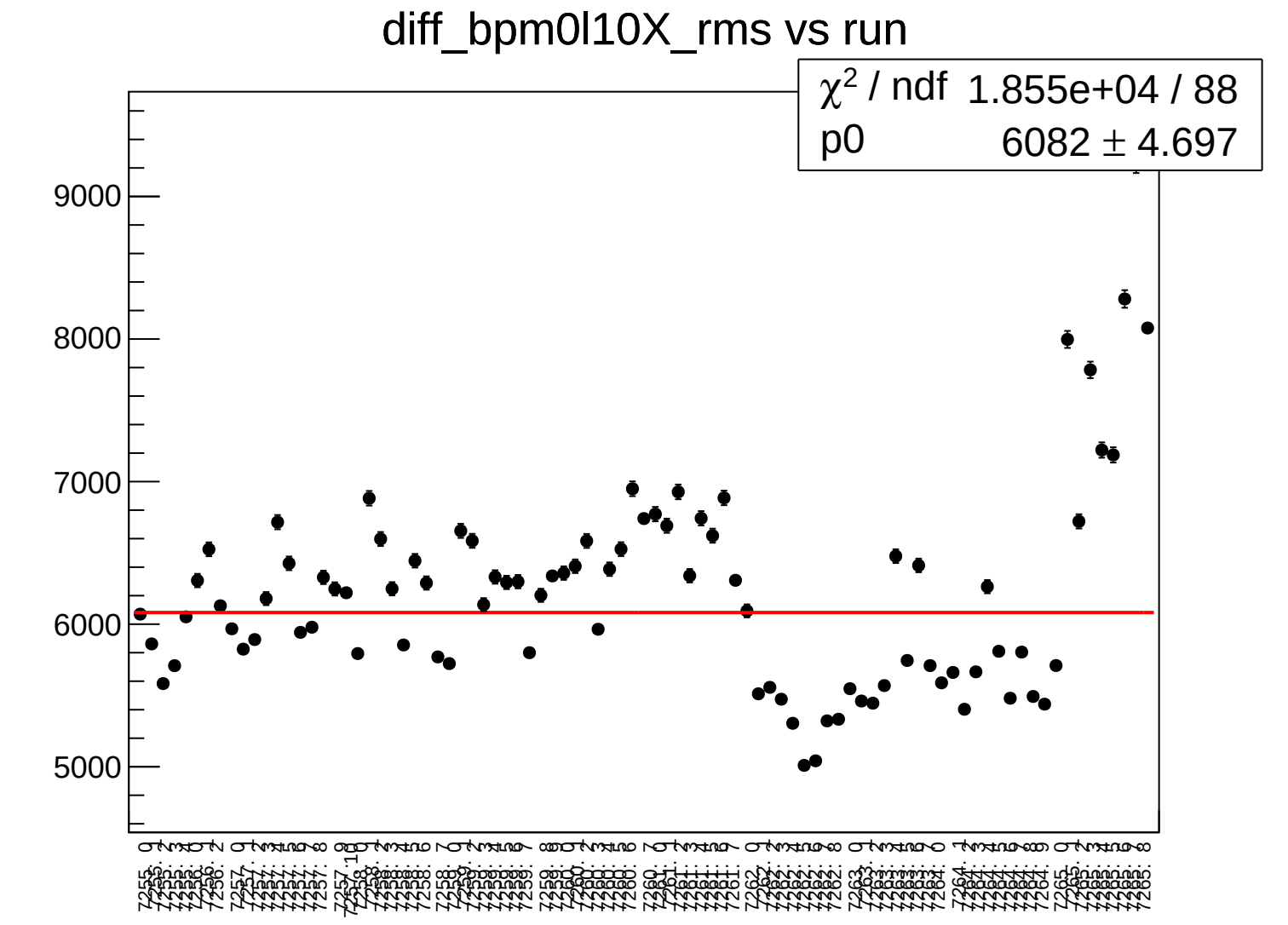

diff_bpm0l09Y_mean vs run
χ² / ndf 70.24 / 88
p0 −2.725 ± 1.327
pull
Entries 89
Mean 158.1
Std Dev 0

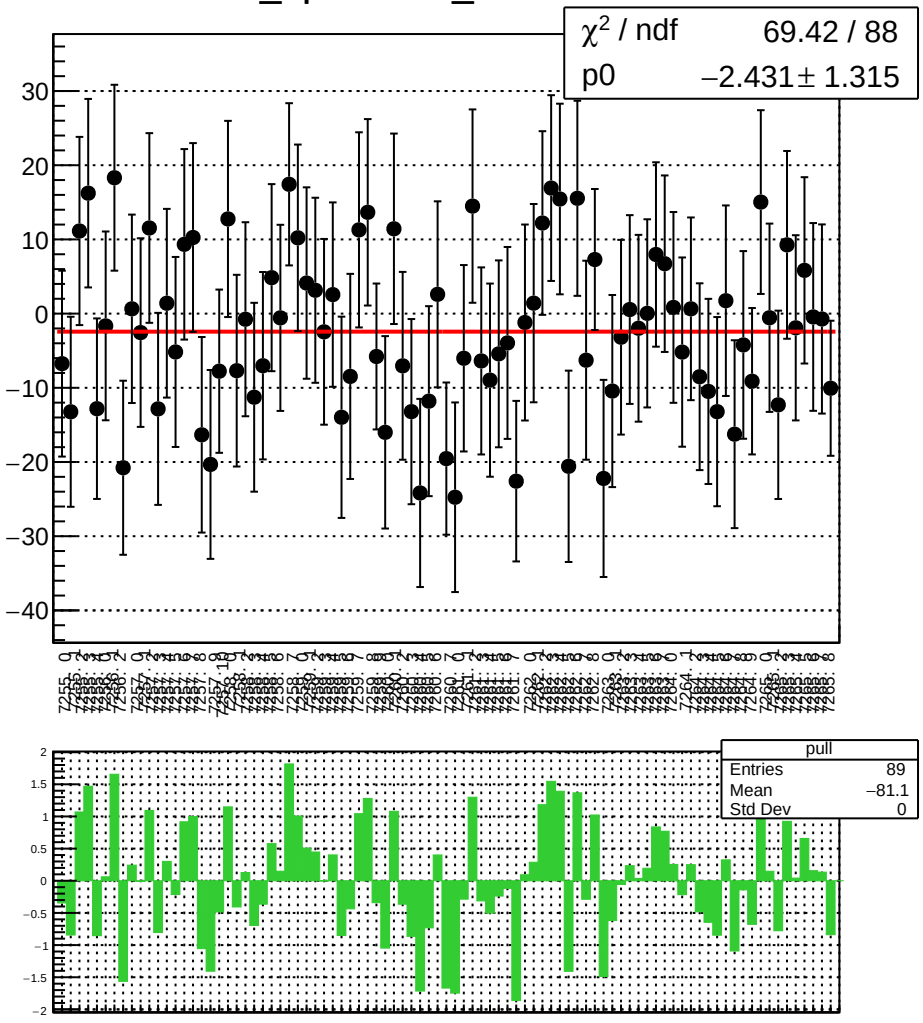

pull1D
Entries 89
Mean 0.008765
Std Dev 0.8883

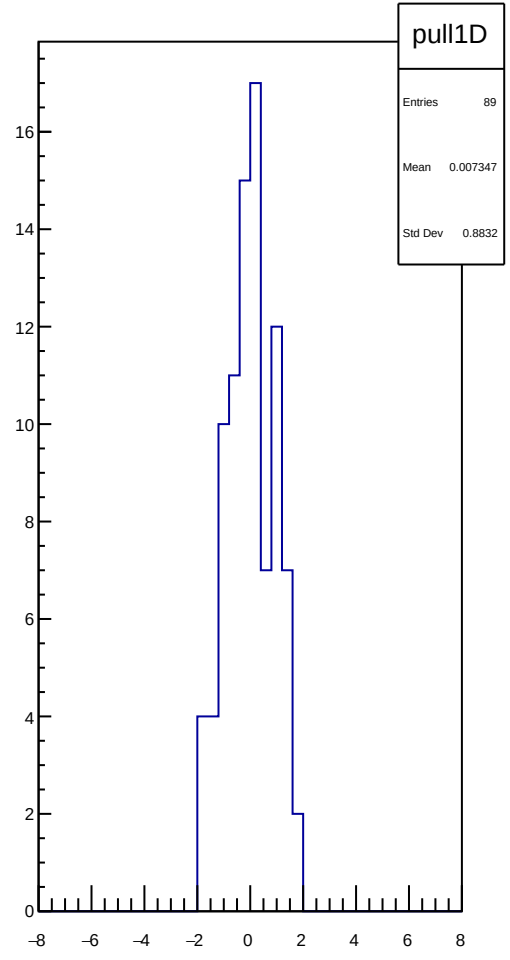

diff_bpm0l09Y_rms vs run
χ² / ndf 826.2 / 88
p0 1221 ± 0.9382
1350
1300
1250
1200
1150

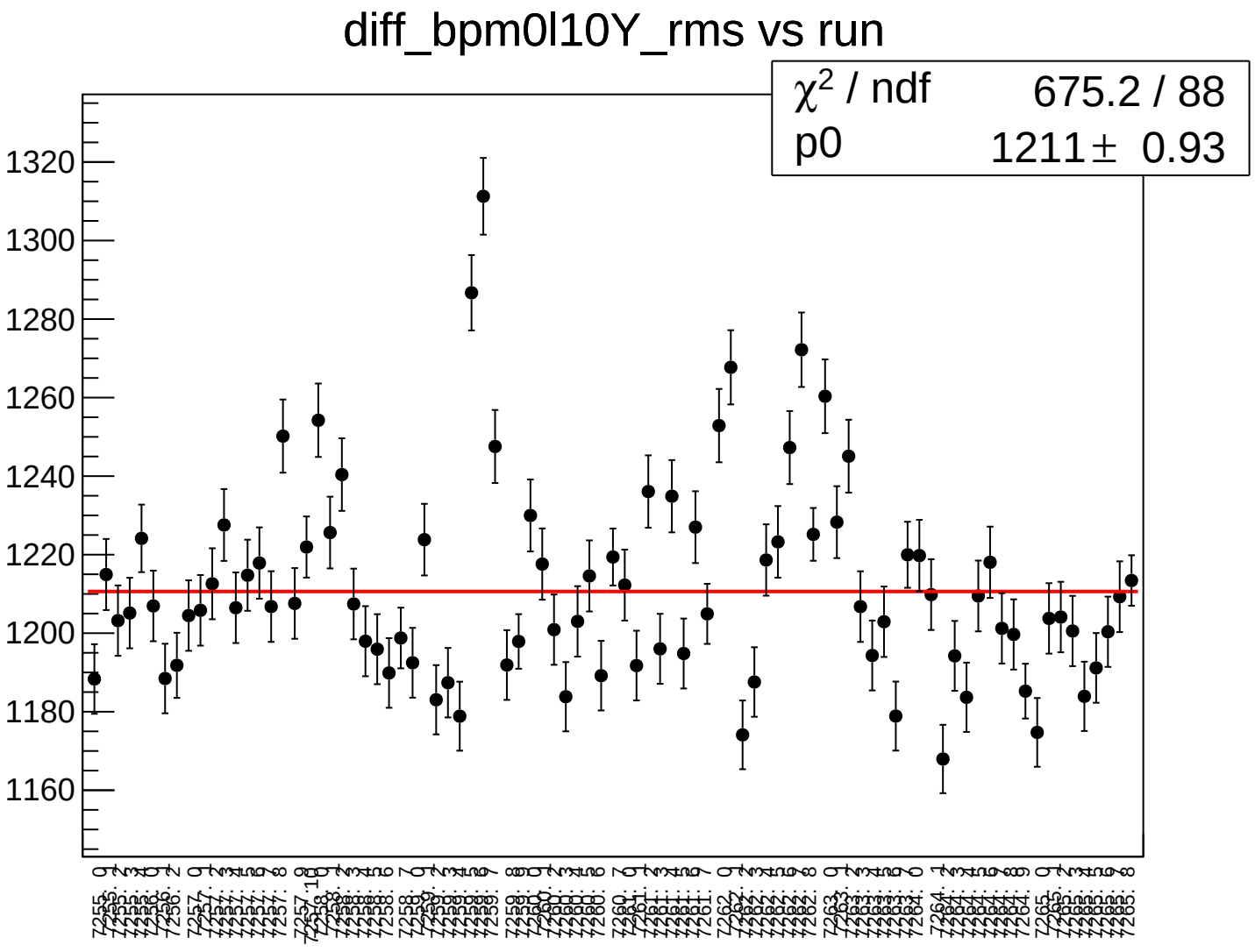

diff_bpm0l10X_mean vs run
χ^2 / ndf 93.57 / 88
p0 15.84 ± 6.643
200
100
0
−100
−200
pull
Entries 89
Mean −2988
Std Dev 0
2
1
0
−1
−2

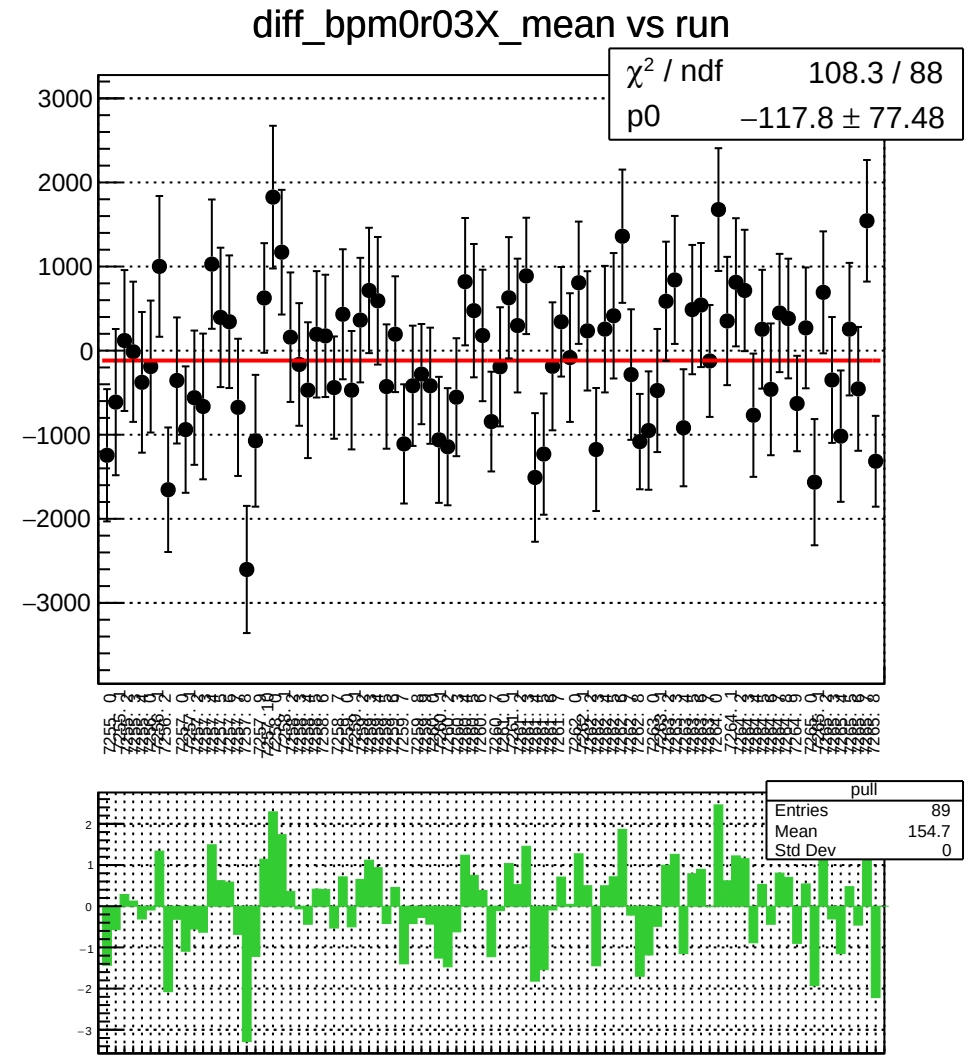

pull1D
Entries 89
Mean 0.0006542
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

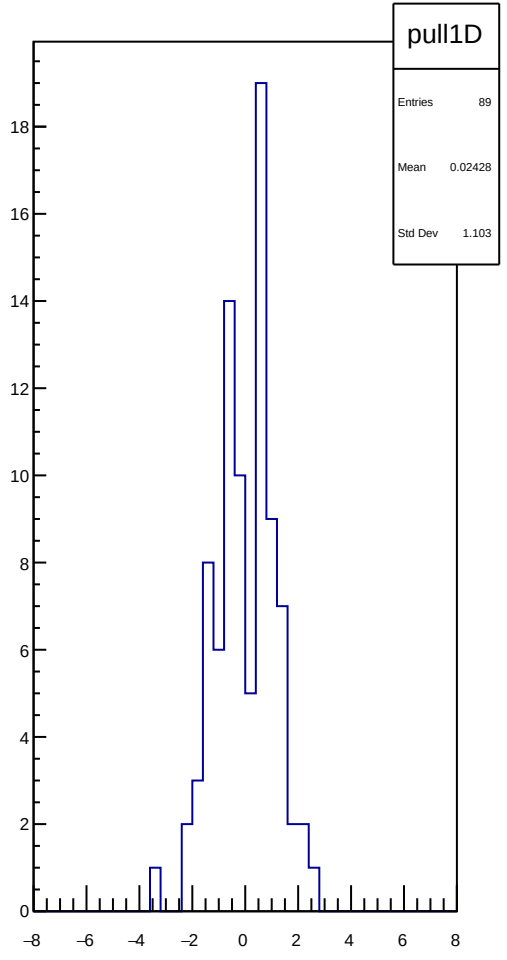

diff_bpm0l10X_rms vs run
χ^2 / ndf 1.855e+04 / 88
p0 6082 ± 4.697
9000
8000
7000
6000
5000

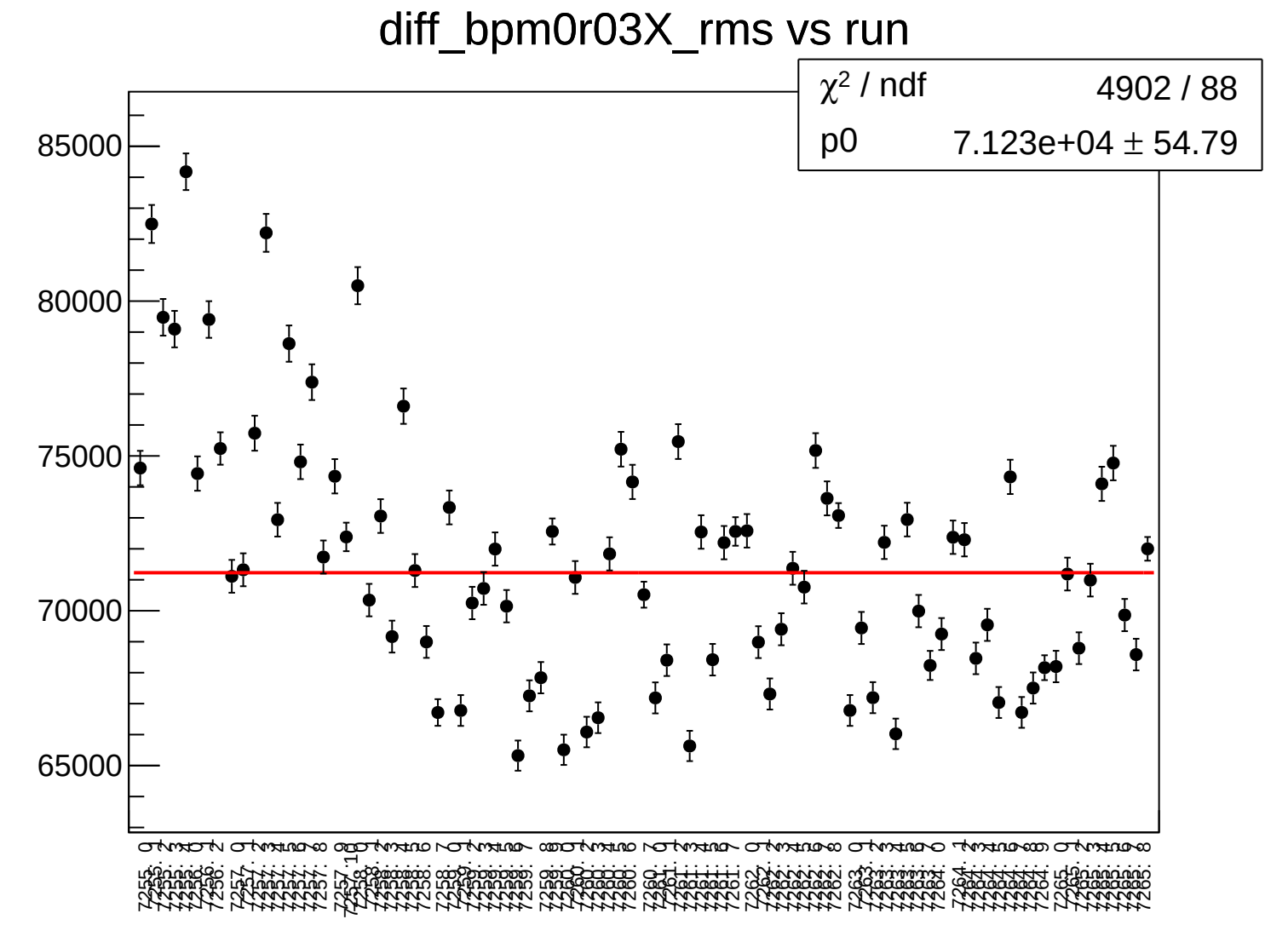

diff_bpm0l10Y_mean vs run
χ^2 / ndf 69.42 / 88
p0 −2.431± 1.315
pull
Entries 89
Mean −81.1
Std Dev 0

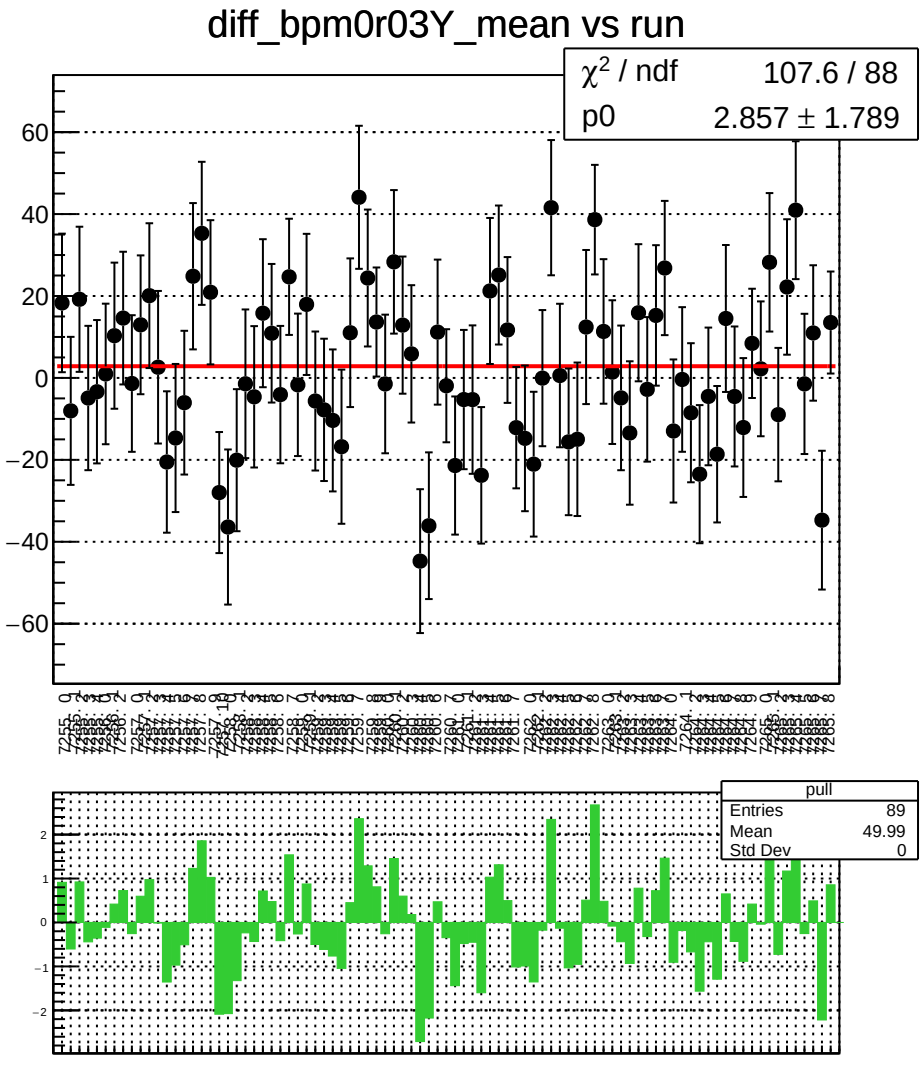

pull1D
Entries 89
Mean 0.007347
Std Dev 0.8832

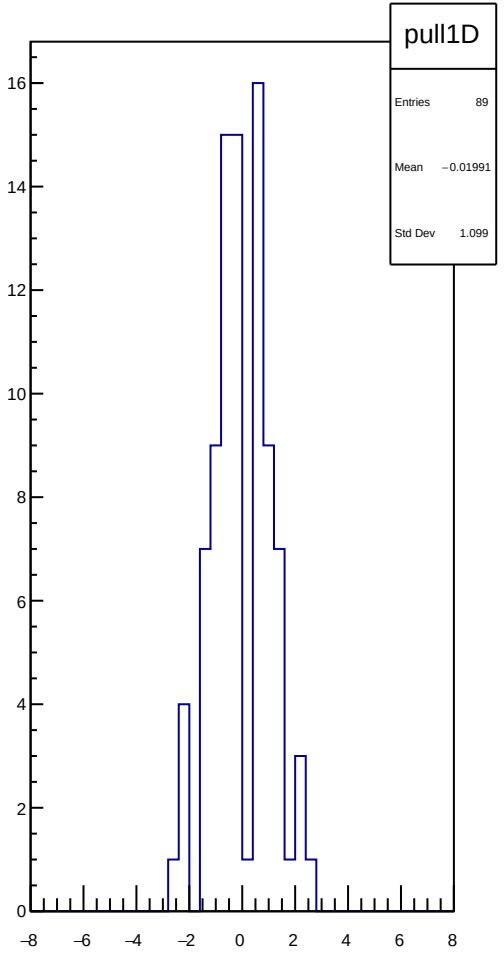

diff_bpm0l10Y_rms vs run
χ² / ndf 675.2 / 88
p0 1211 ± 0.93
1320
1300
1280
1260
1240
1220
1200
1180
1160

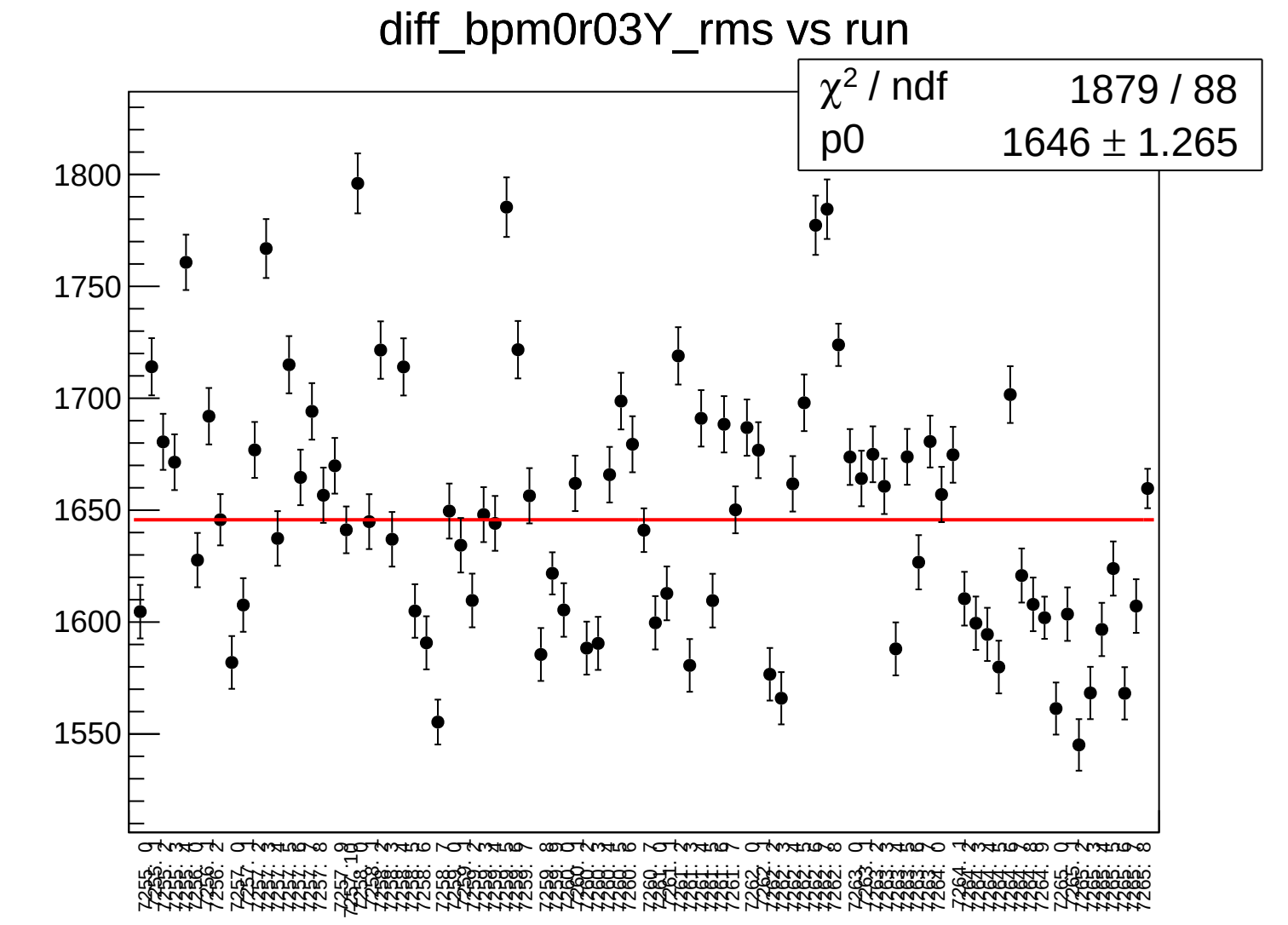

diff_bpm0r03X_mean vs run
χ² / ndf 108.3 / 88
p0 −117.8 ± 77.48
pull
Entries 89
Mean 154.7
Std Dev 0

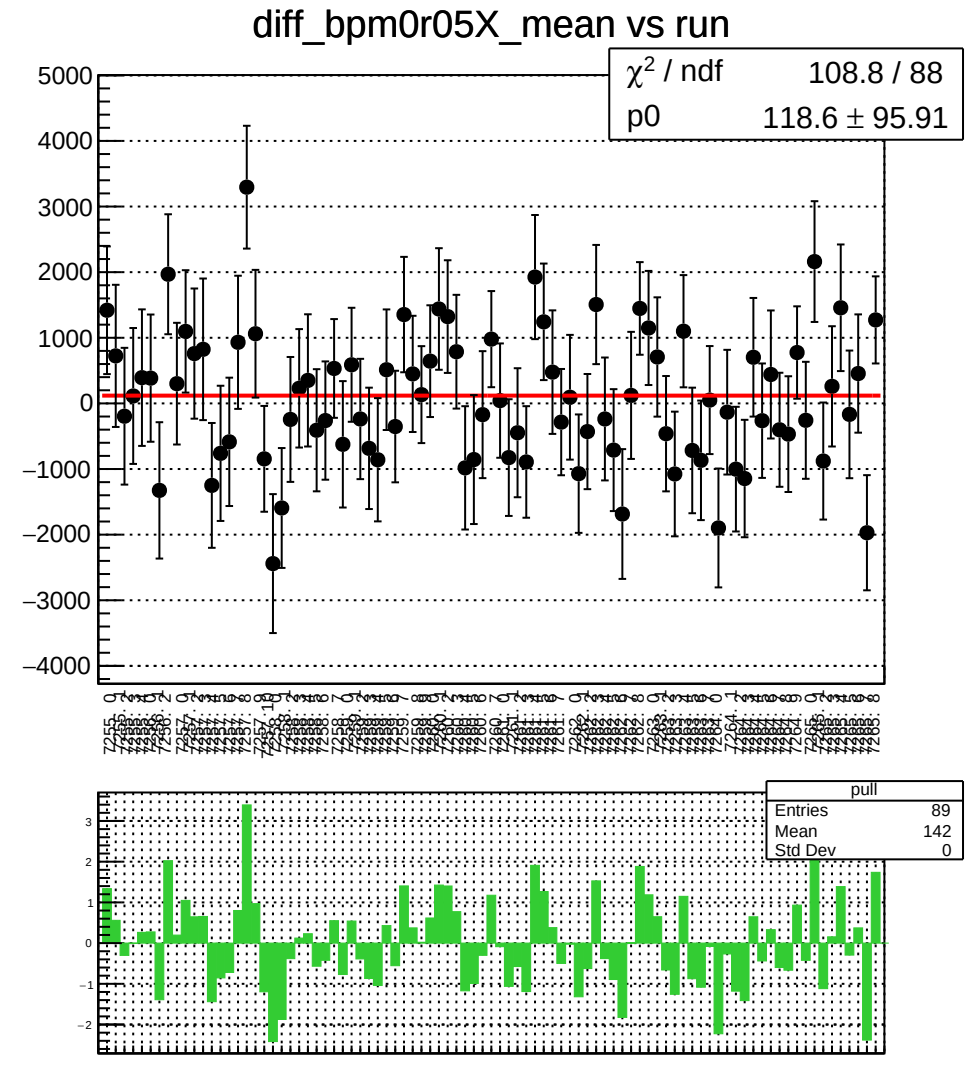

pull1D
Entries 89
Mean 0.02428
Std Dev 1.103

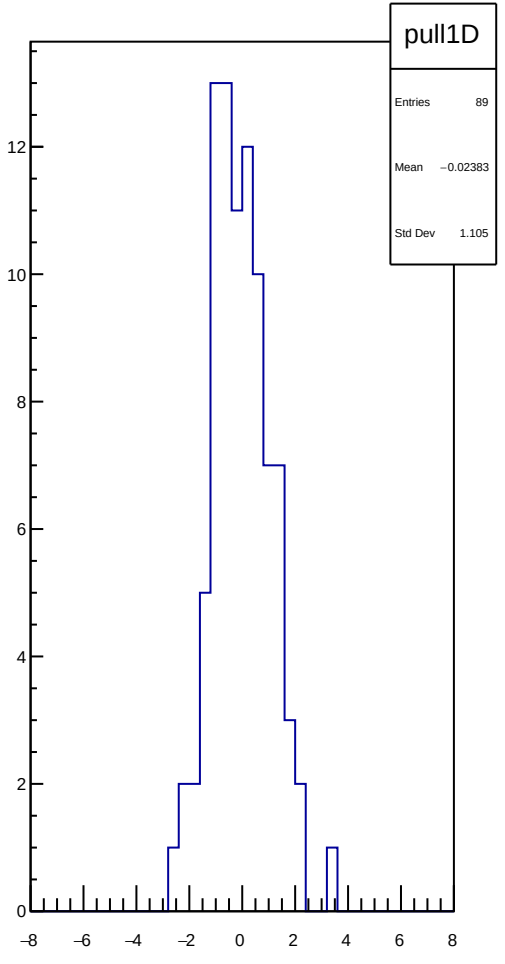

diff_bpm0r03X_rms vs run
χ² / ndf 4902 / 88
p0 7.123e+04 ± 54.79
85000
80000
75000
70000
65000

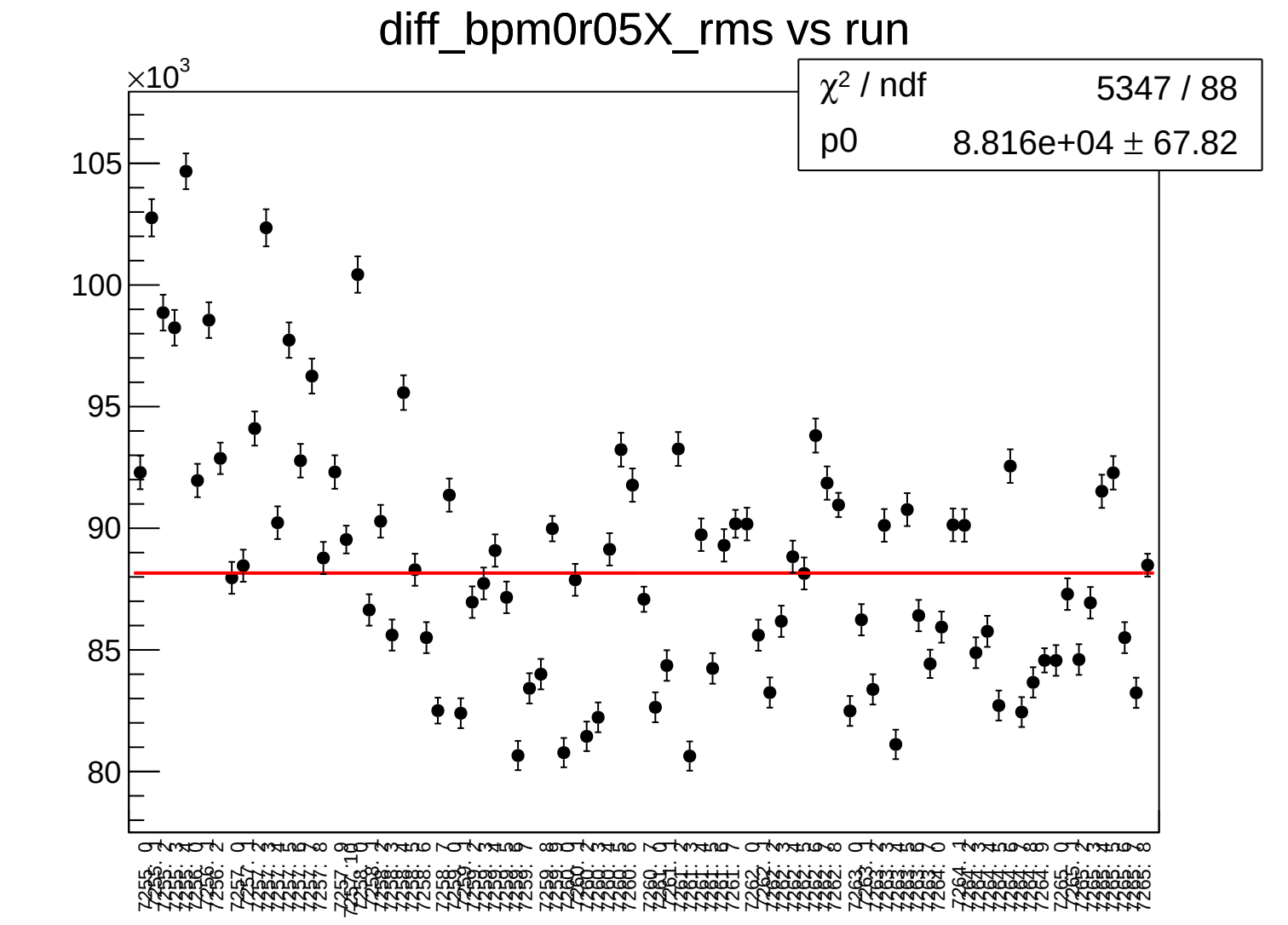

diff_bpm0r03Y_mean vs run
χ² / ndf 107.6 / 88
p0 2.857 ± 1.789
pull
Entries 89
Mean 49.99
Std Dev 0

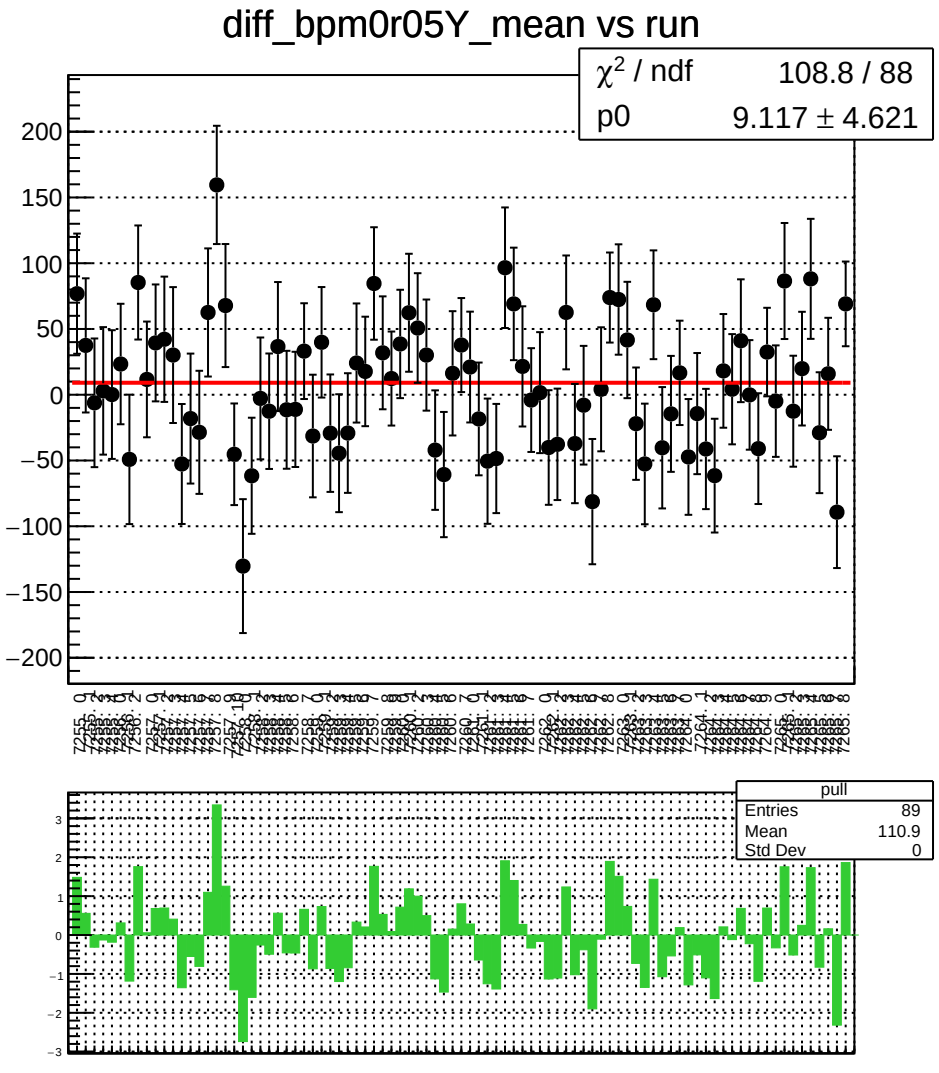

pull1D
Entries 89
Mean −0.01991
Std Dev 1.099

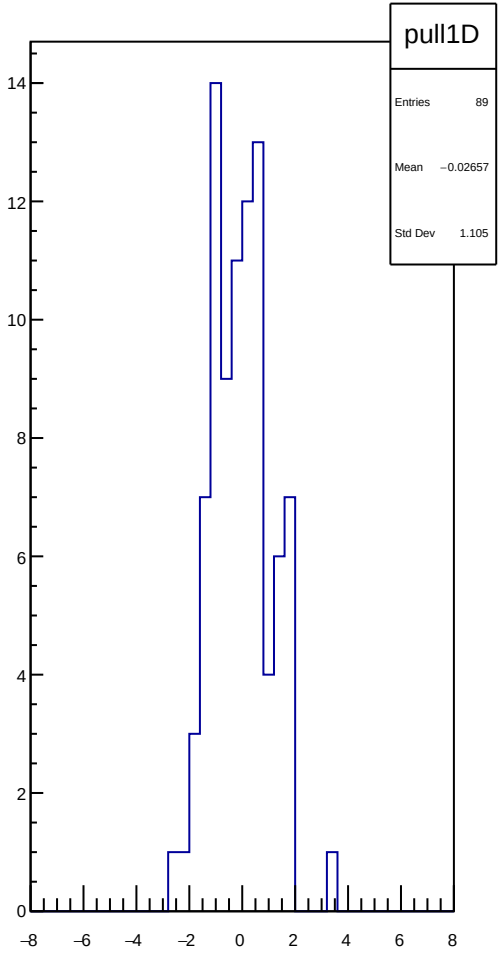

diff_bpm0r03Y_rms vs run
χ² / ndf 1879 / 88
p0 1646 ± 1.265
1800
1750
1700
1650
1600
1550

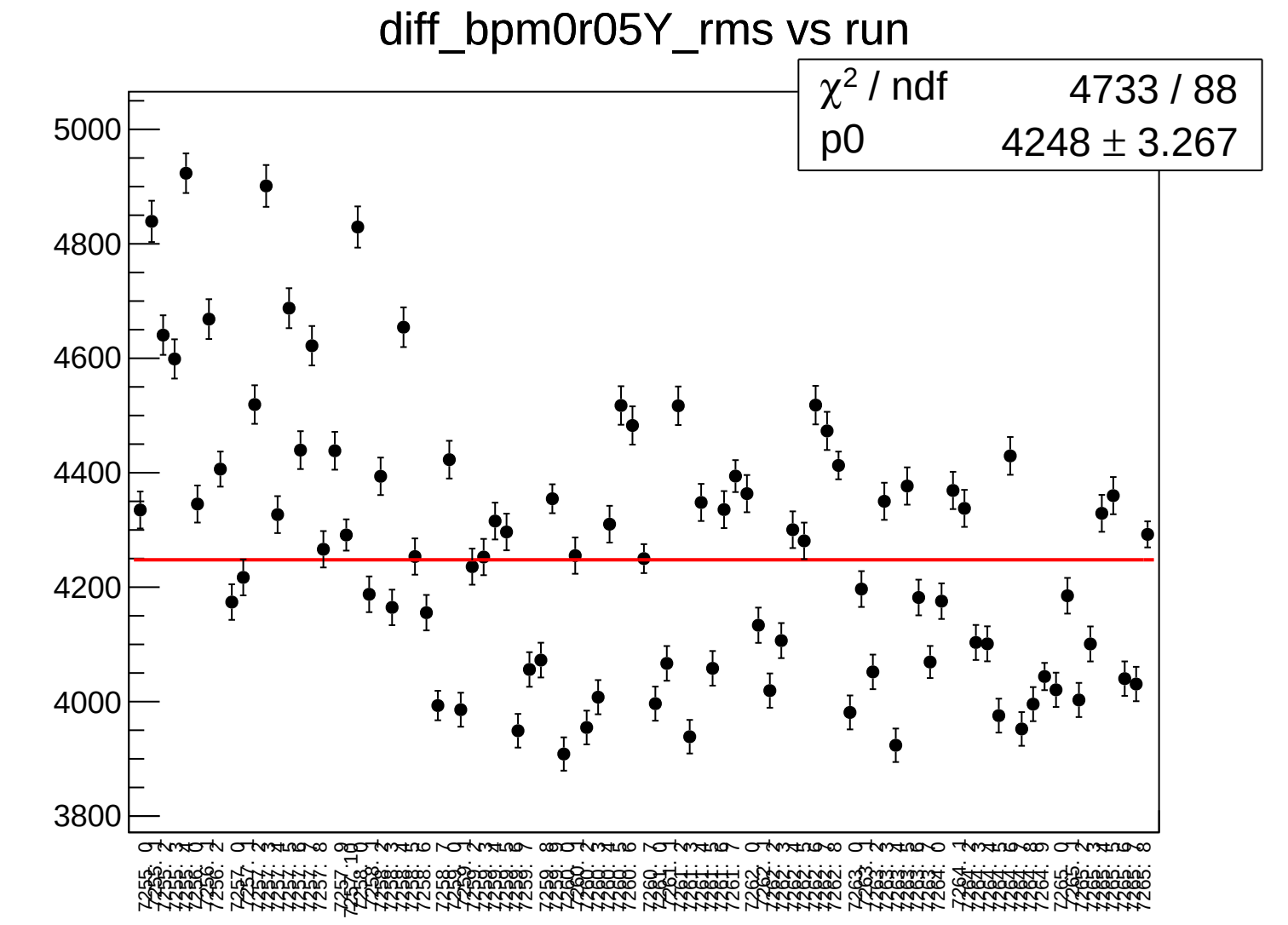

diff_bpm0r05X_mean vs run
χ^2 / ndf 108.8 / 88
p0 118.6 ± 95.91
pull
Entries 89
Mean 142
Std Dev 0

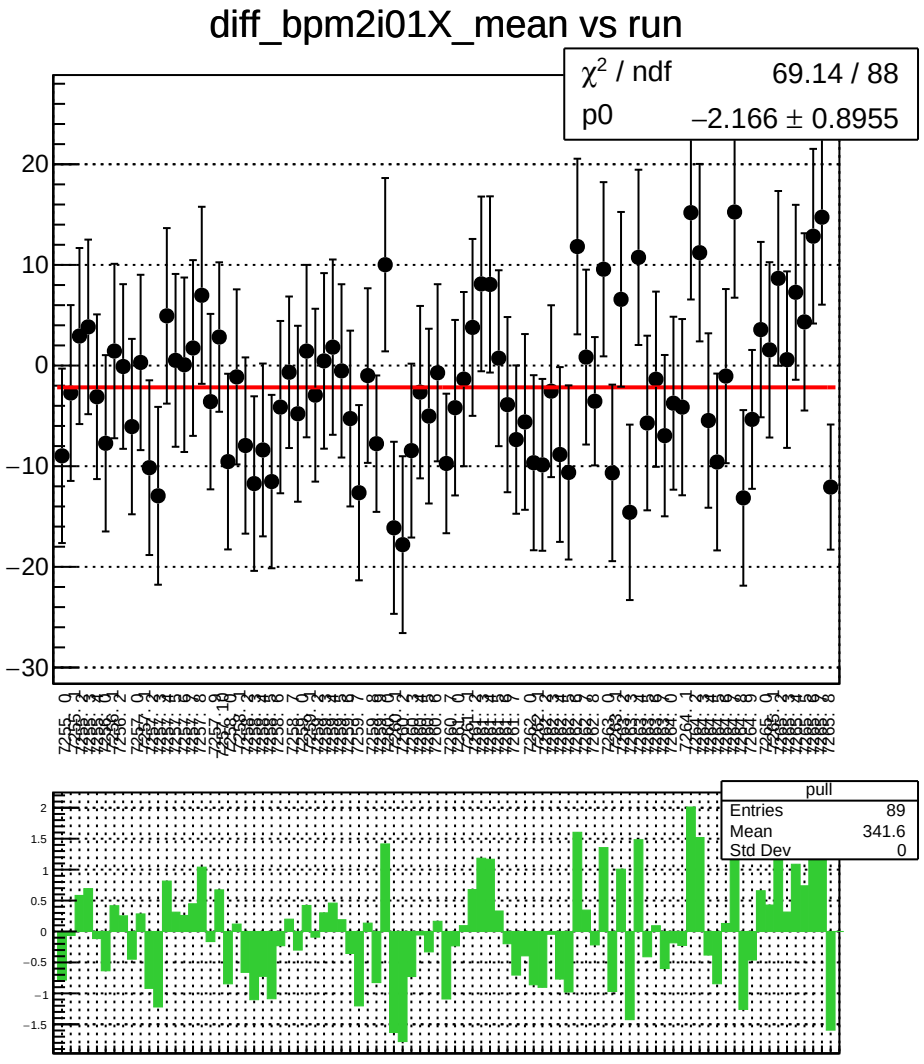

pull1D
Entries 89
Mean −0.02383
Std Dev 1.105

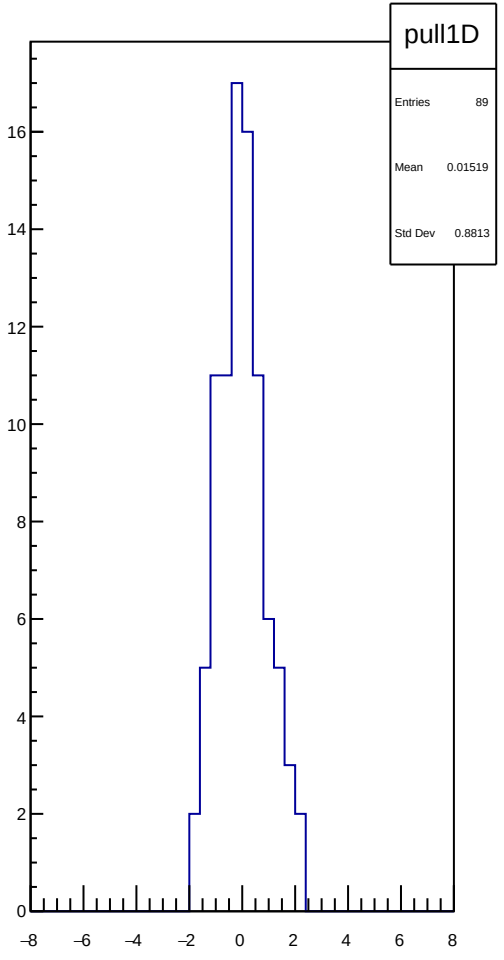

diff_bpm0r05X_rms vs run
×10^3
χ² / ndf 5347 / 88
p0 8.816e+04 ± 67.82
105
100
95
90
85
80

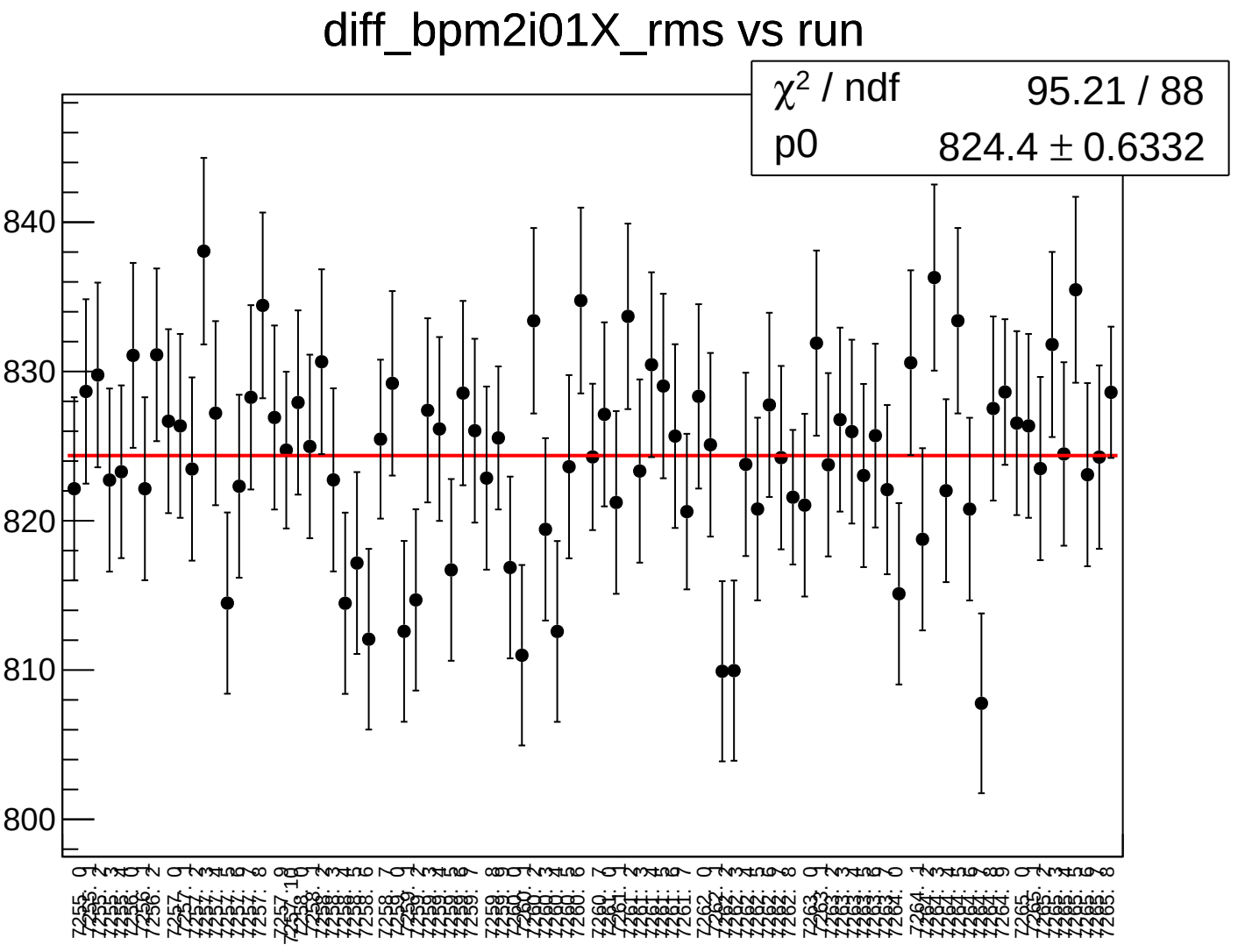

diff_bpm0r05Y_mean vs run
χ² / ndf 108.8 / 88
p0 9.117 ± 4.621
pull
Entries 89
Mean 110.9
Std Dev 0

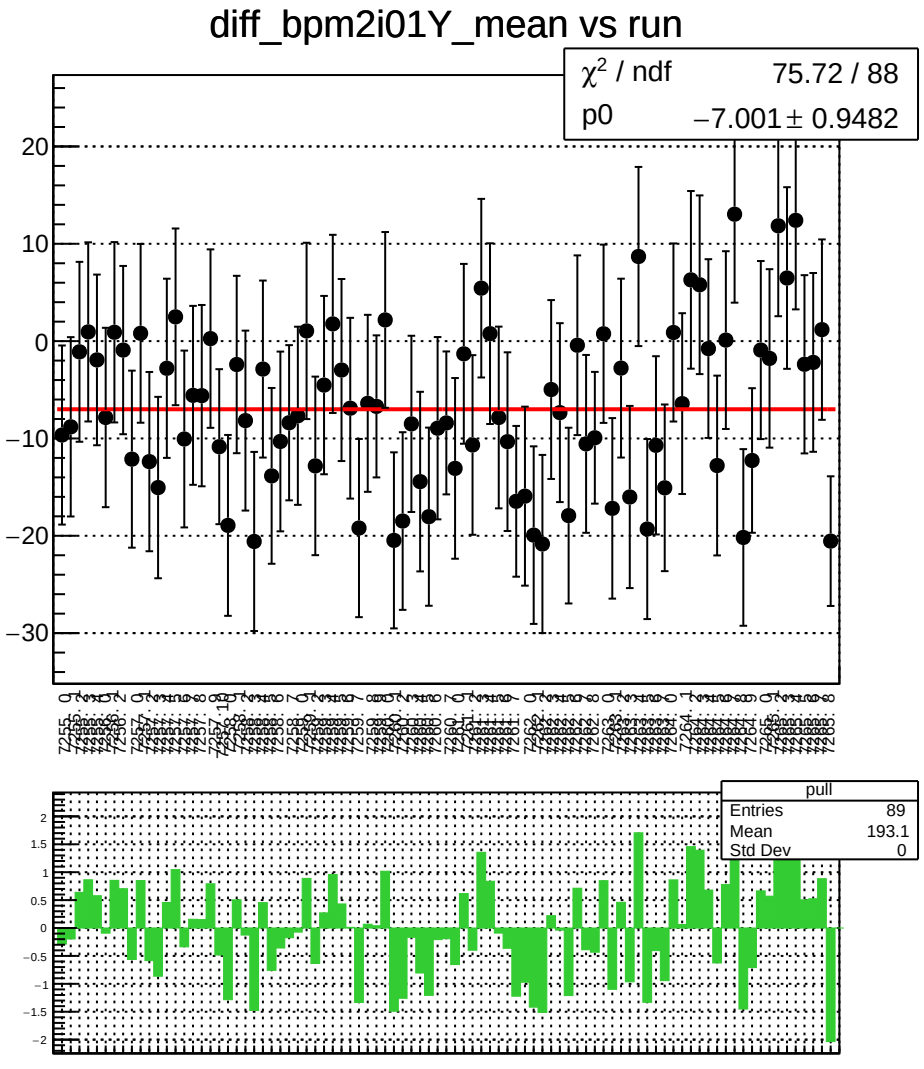

pull1D
Entries 89
Mean −0.02657
Std Dev 1.105

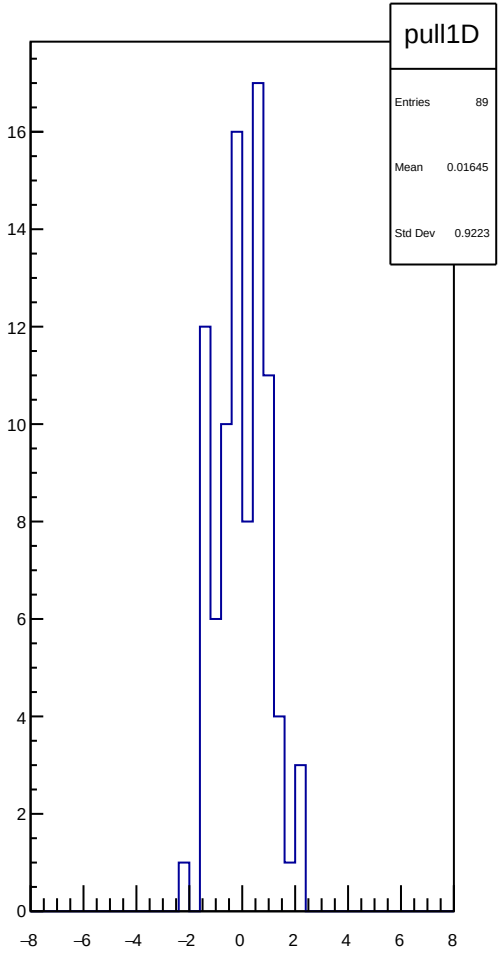

diff_bpm0r05Y_rms vs run
χ² / ndf 4733 / 88
p0 4248 ± 3.267
5000
4800
4600
4400
4200
4000
3800

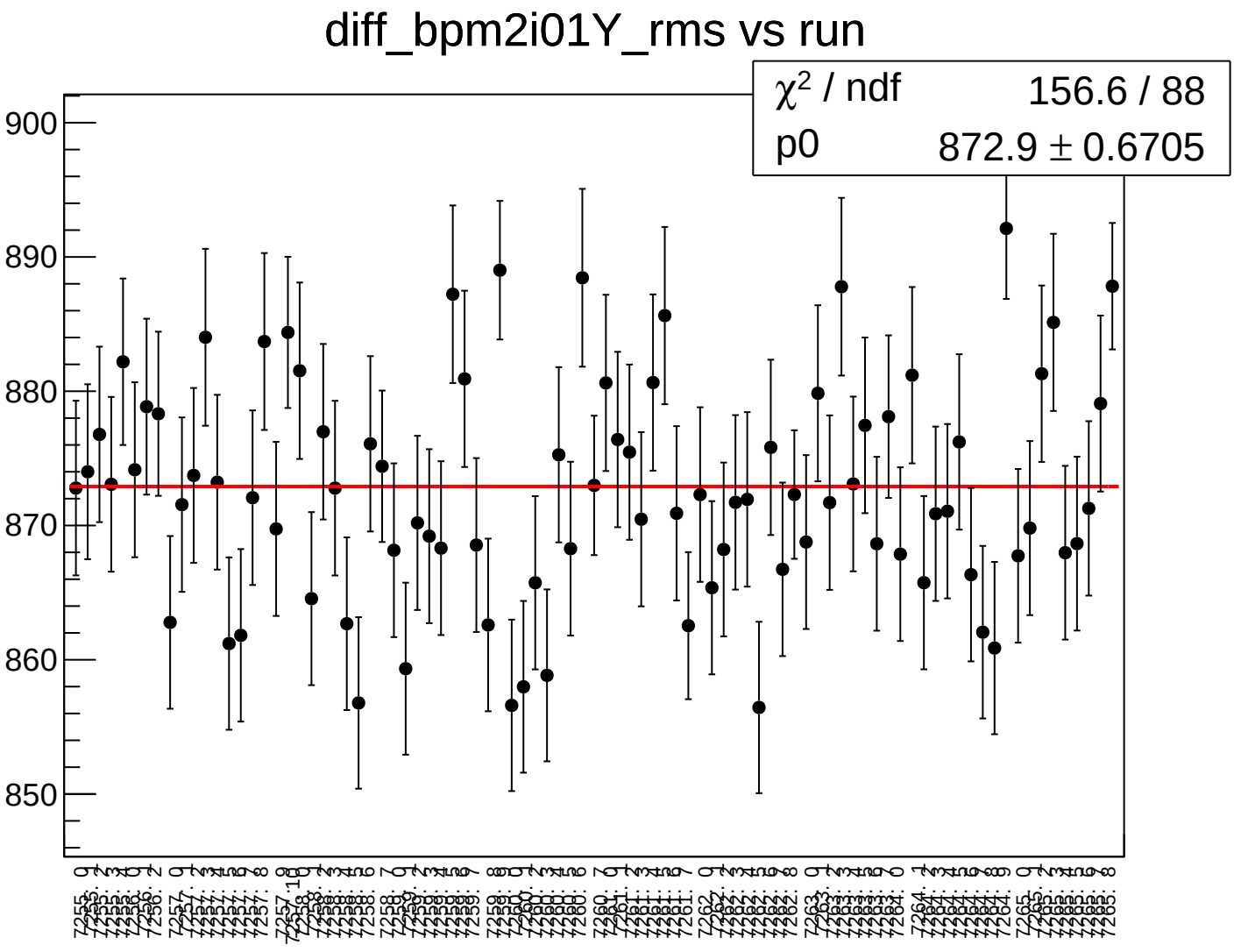

diff_bpm2i01X_mean vs run
χ² / ndf 69.14 / 88
p0 −2.166 ± 0.8955
pull
Entries 89
Mean 341.6
Std Dev 0

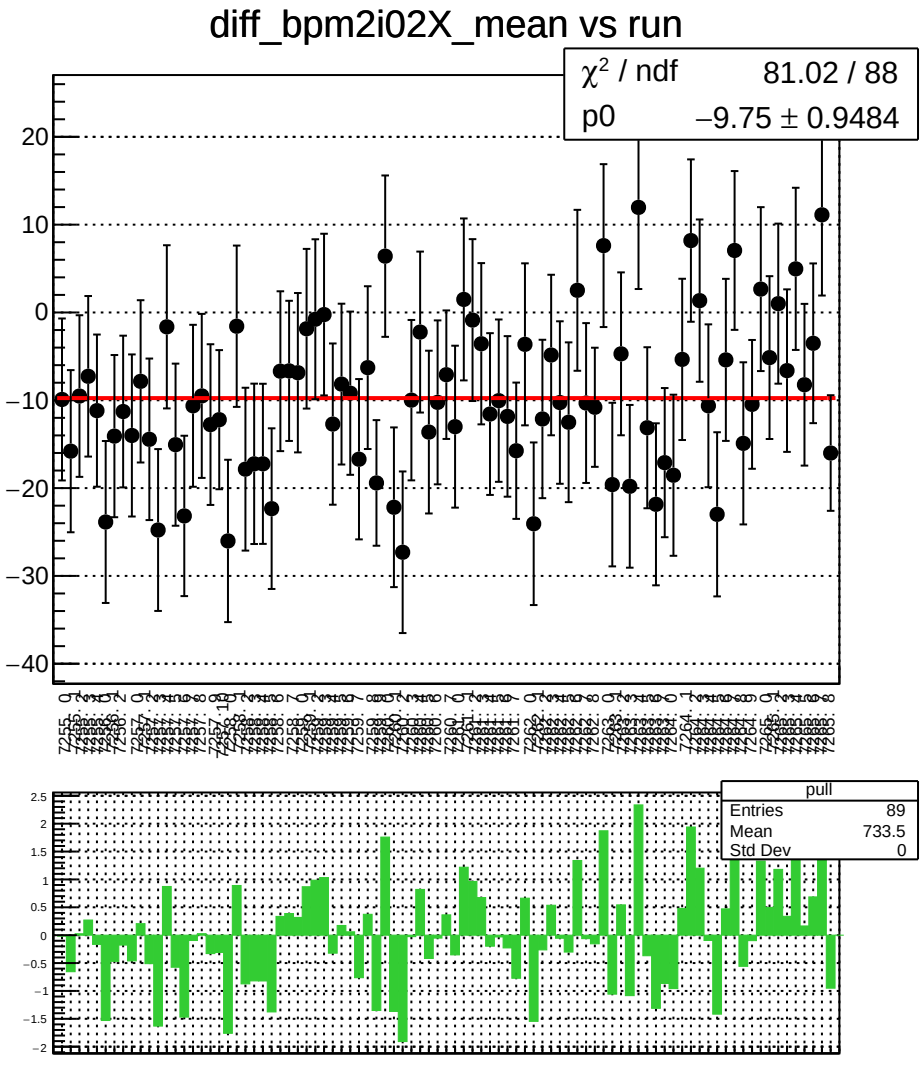

pull1D
Entries 89
Mean 0.01519
Std Dev 0.8813

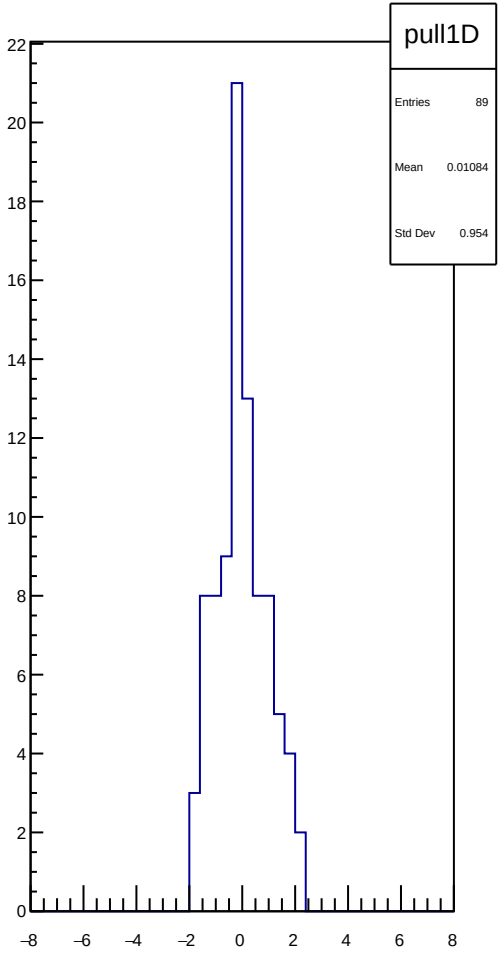

diff_bpm2i01X_rms vs run
χ² / ndf 95.21 / 88
p0 824.4 ± 0.6332
840
830
820
810
800

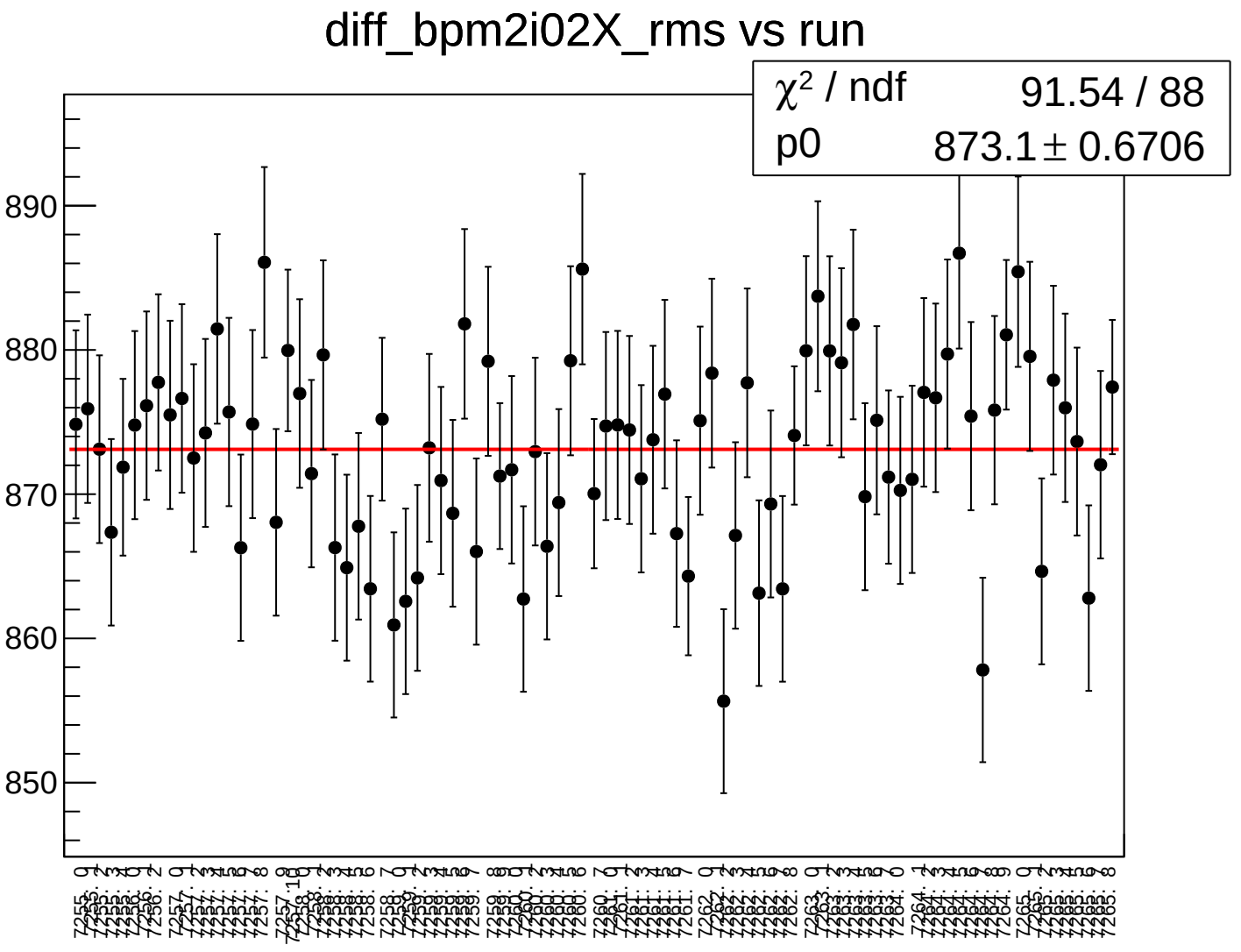

diff_bpm2i01Y_mean vs run
χ^2 / ndf 75.72 / 88
p0 −7.001 ± 0.9482
pull
Entries 89
Mean 193.1
Std Dev 0

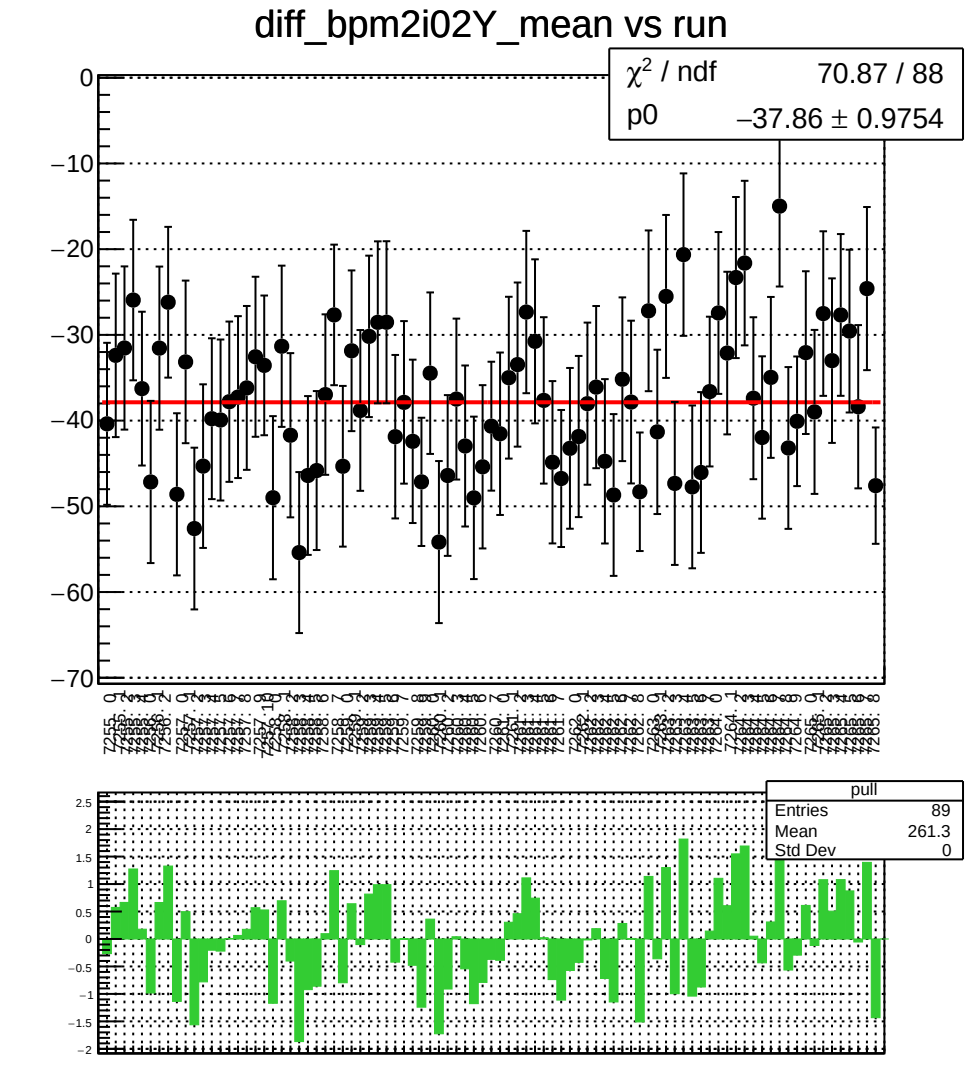

pull1D
Entries 89
Mean 0.01645
Std Dev 0.9223

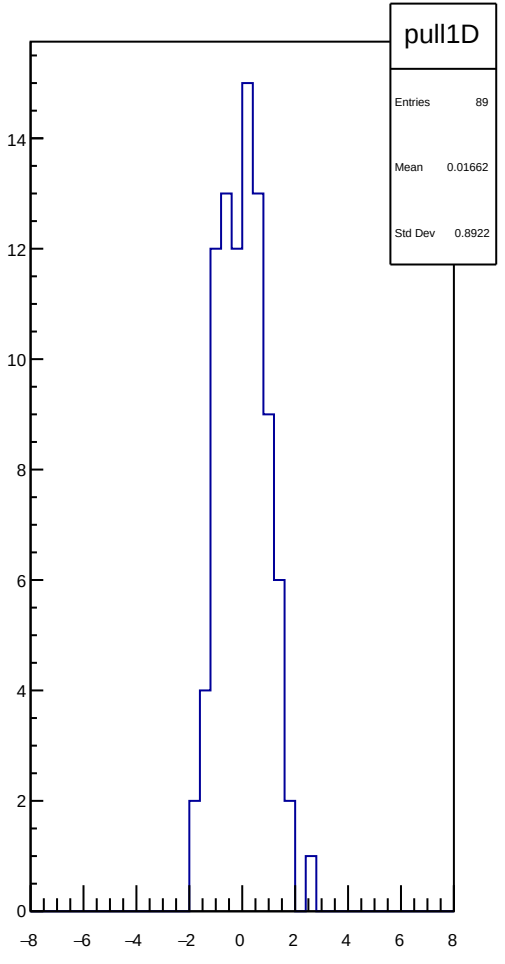

diff_bpm2i01Y_rms vs run
χ² / ndf 156.6 / 88
p0 872.9 ± 0.6705
900
890
880
870
860
850

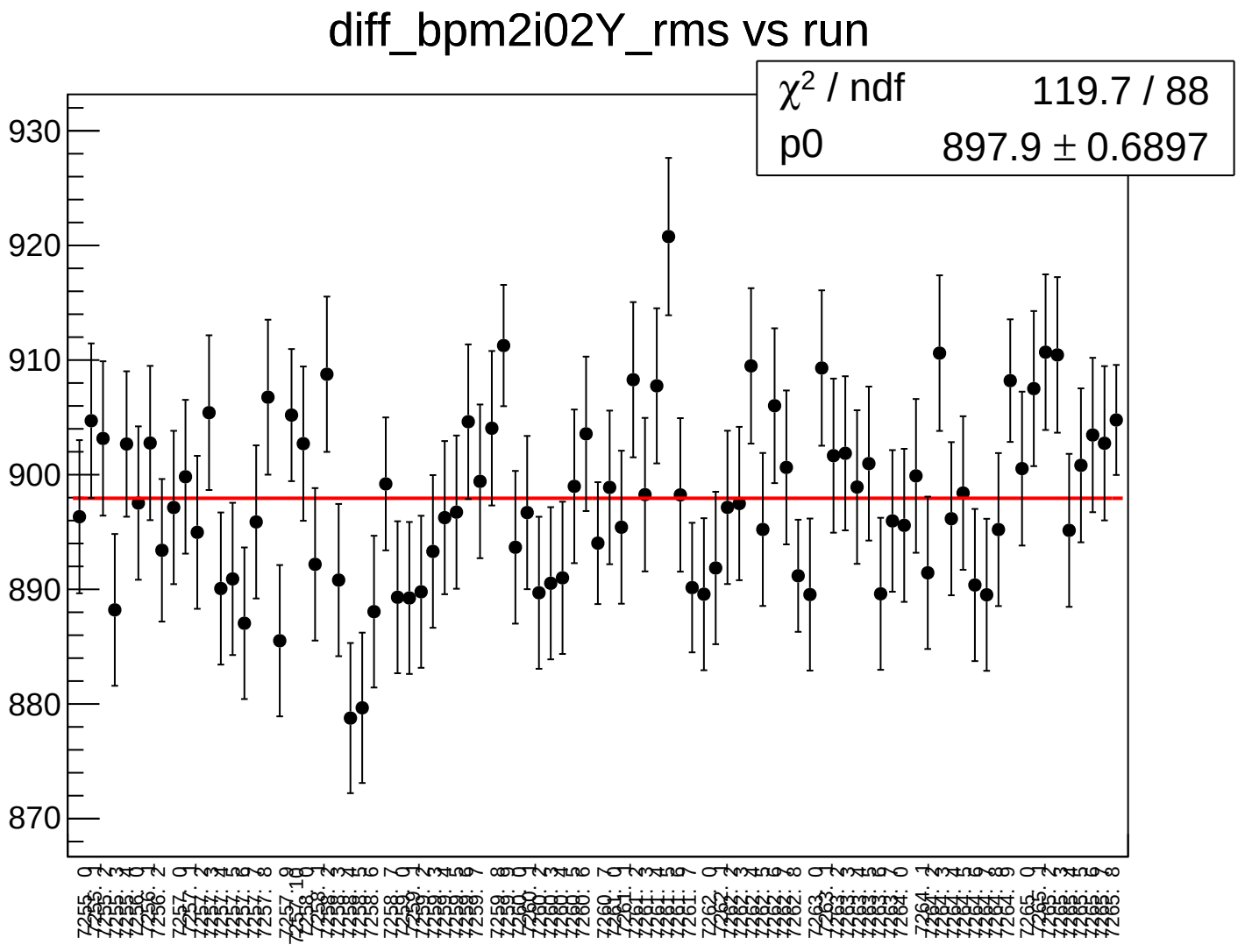

diff_bpm2i02X_mean vs run
χ² / ndf 81.02 / 88
p0 −9.75 ± 0.9484
pull
Entries 89
Mean 733.5
Std Dev 0

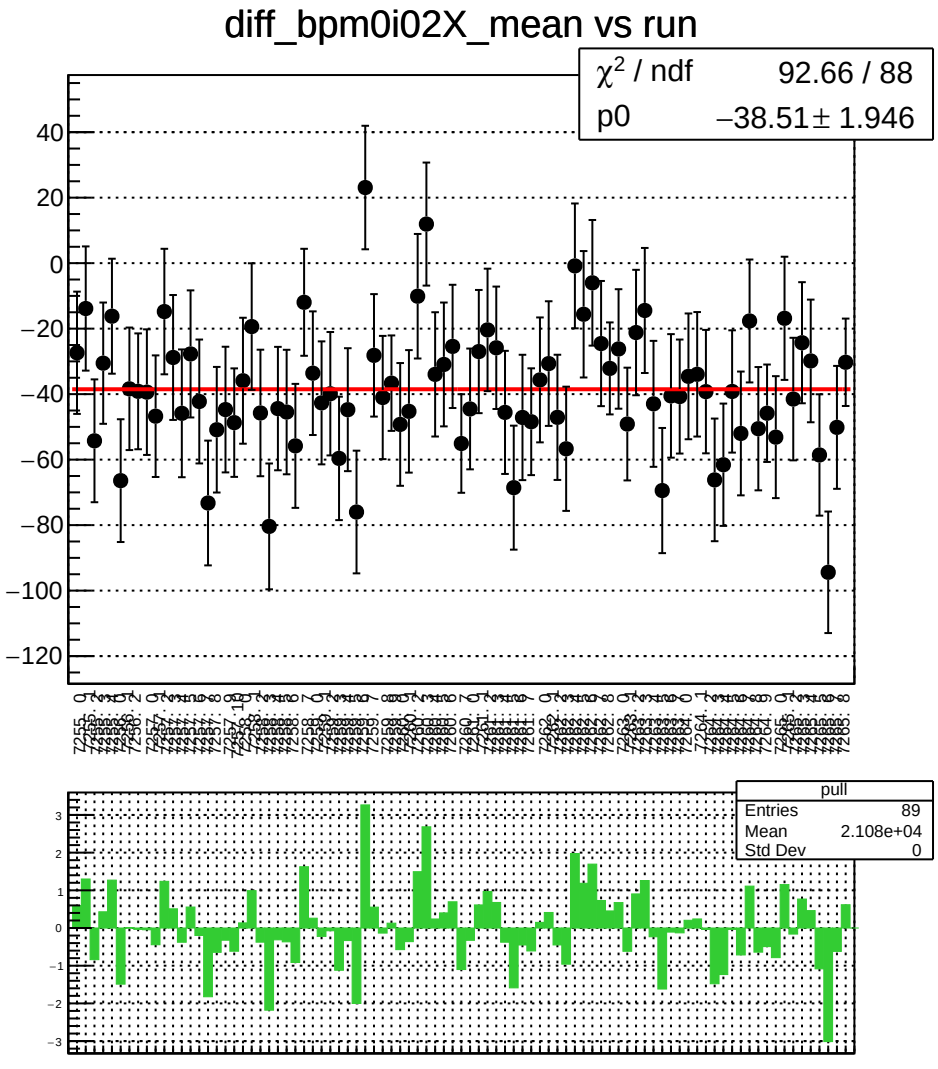

pull1D
Entries 89
Mean 0.01084
Std Dev 0.954

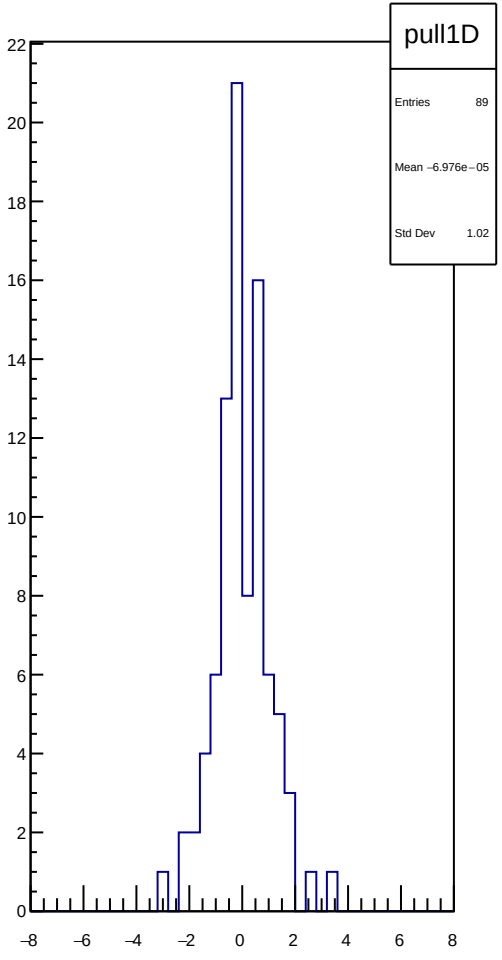

diff_bpm2i02X_rms vs run
χ² / ndf 91.54 / 88
p0 873.1 ± 0.6706
890
880
870
860
850

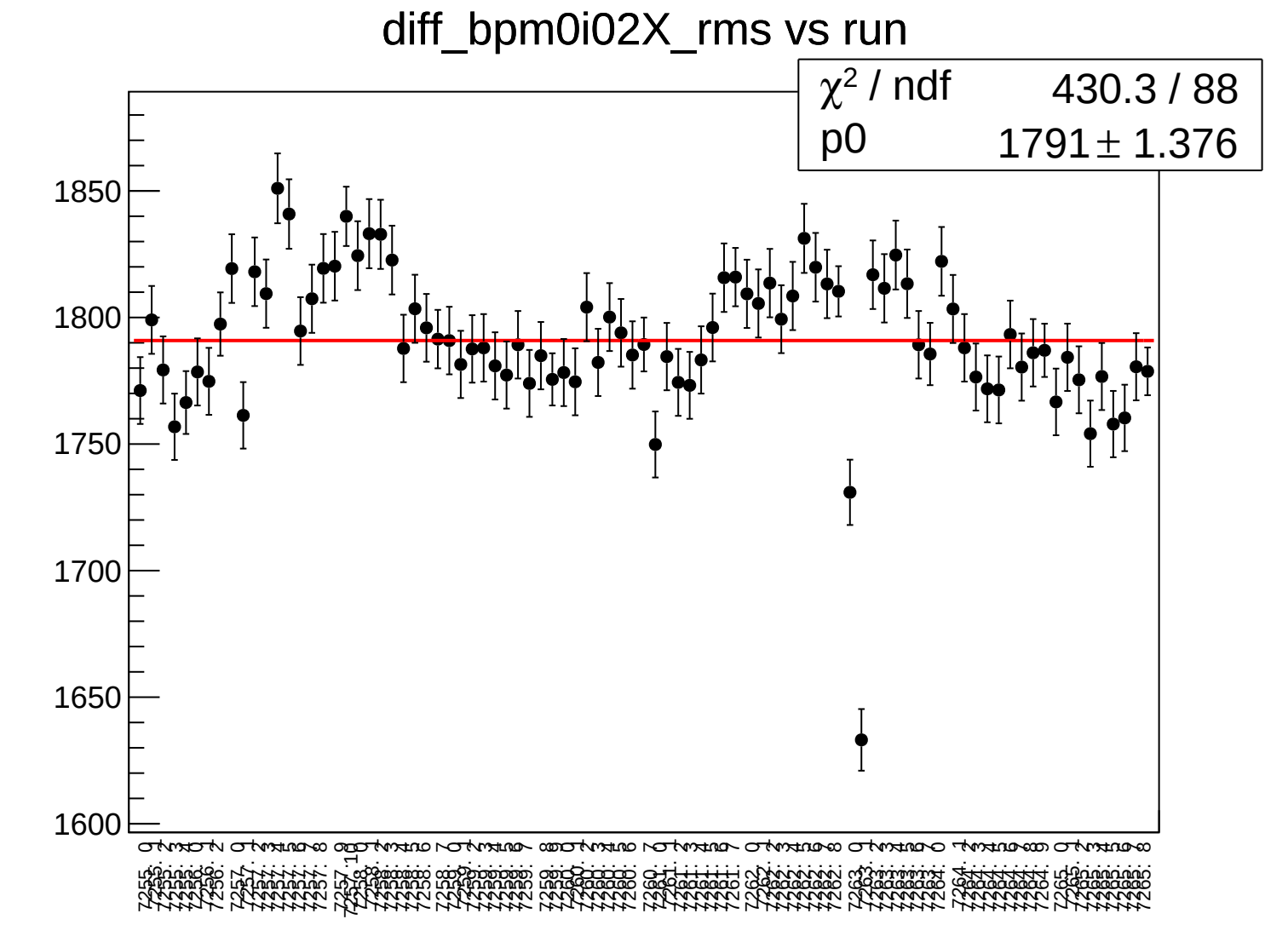

diff_bpm2i02Y_mean vs run
χ² / ndf 70.87 / 88
p0 −37.86 ± 0.9754
pull
Entries 89
Mean 261.3
Std Dev 0

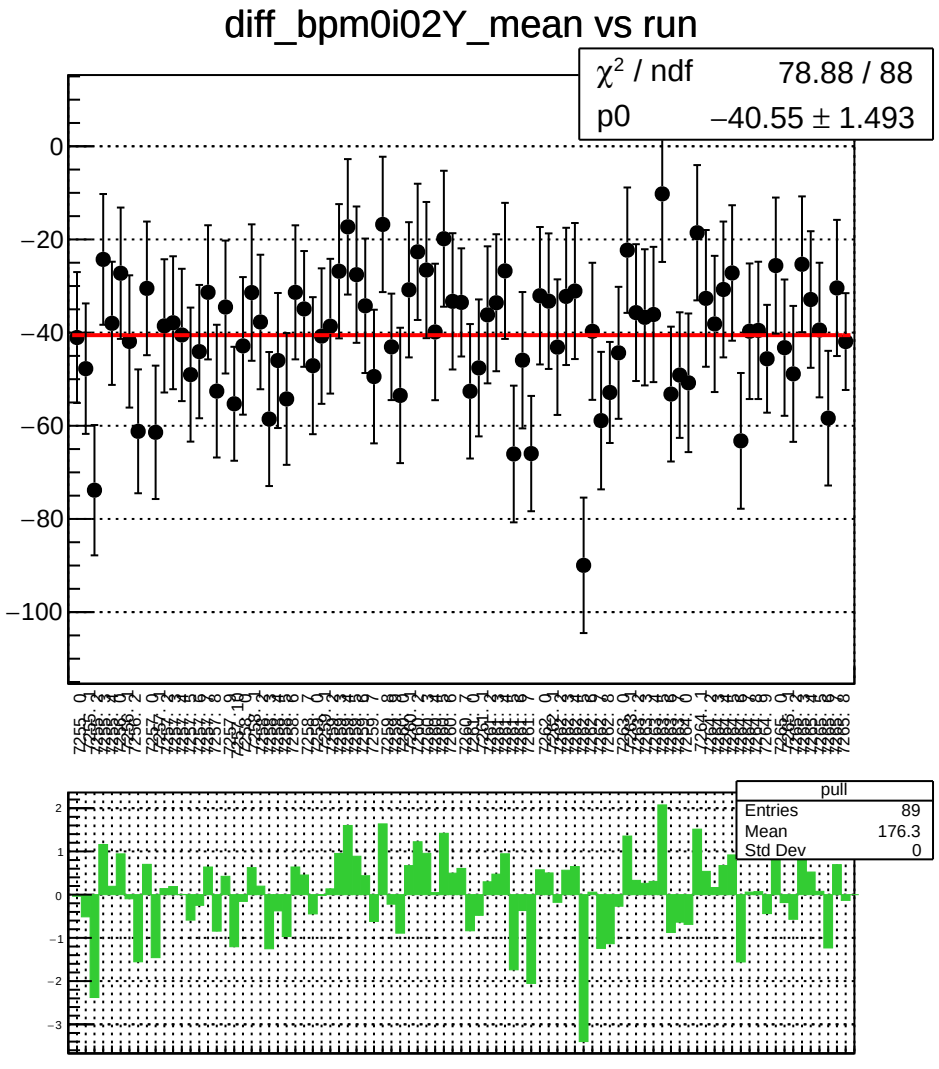

pull1D
Entries 89
Mean 0.01662
Std Dev 0.8922

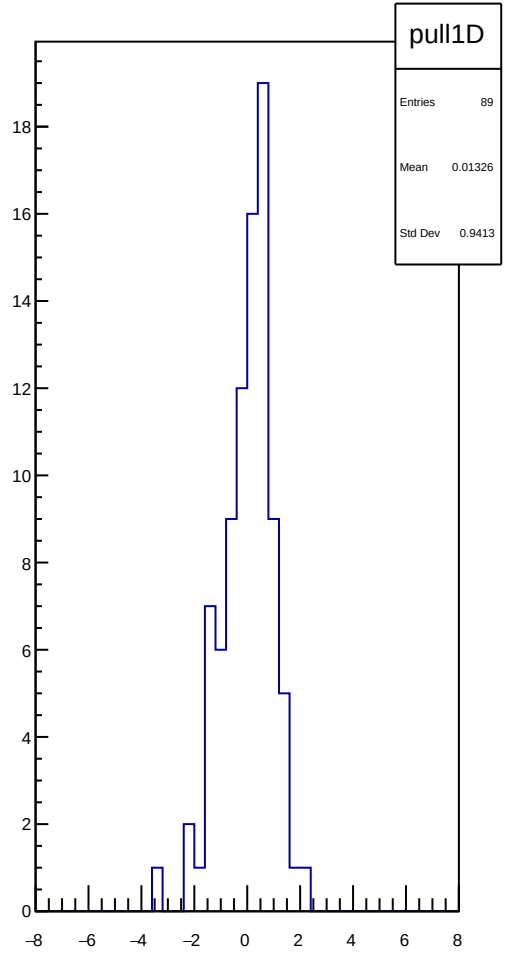

diff_bpm2i02Y_rms vs run
χ² / ndf 119.7 / 88
p0 897.9 ± 0.6897
930
920
910
900
890
880
870

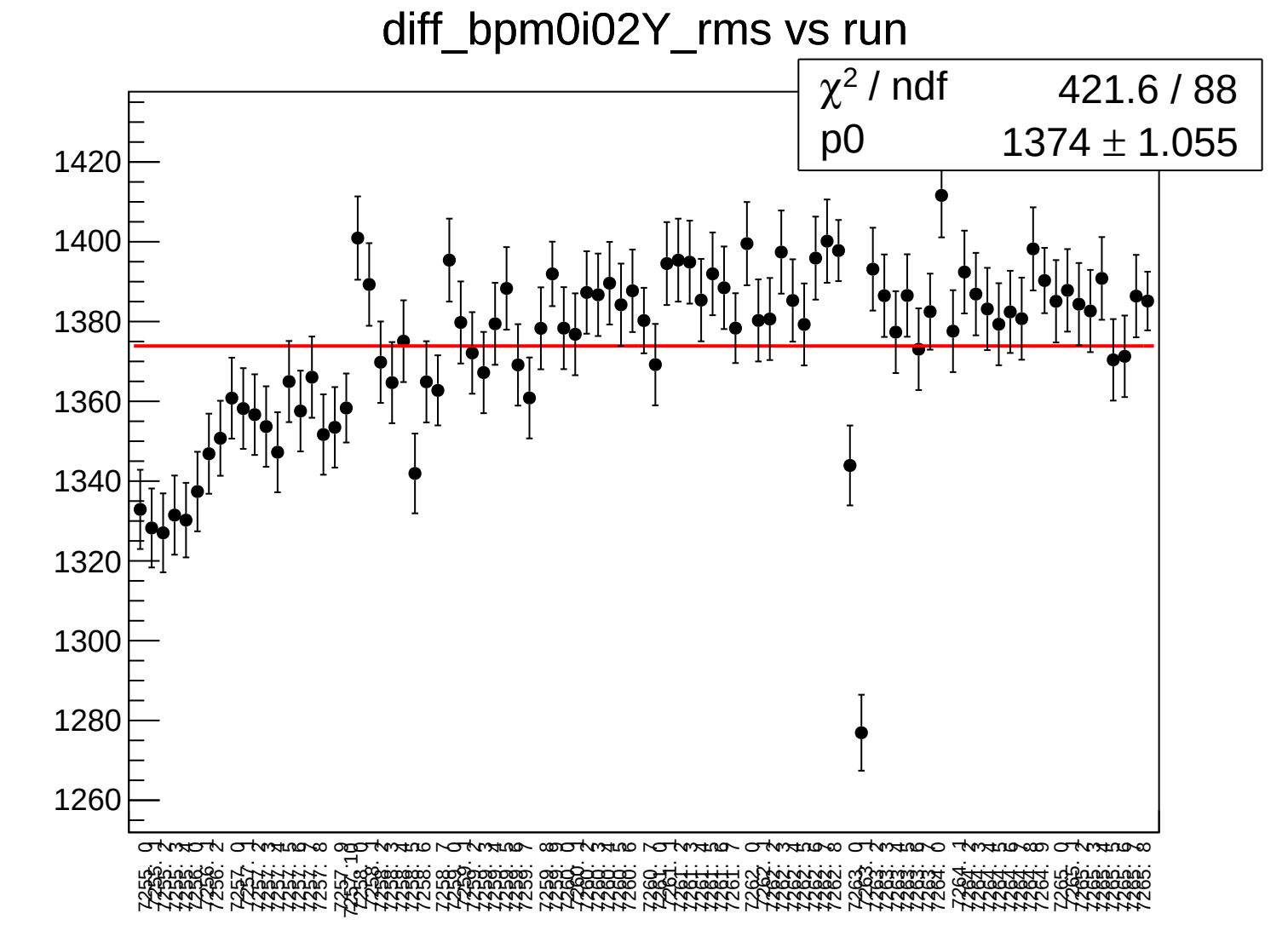

diff_bpm0i02X_mean vs run
χ^2 / ndf 92.66 / 88
p0 −38.51± 1.946
pull
Entries 89
Mean 2.108e+04
Std Dev 0

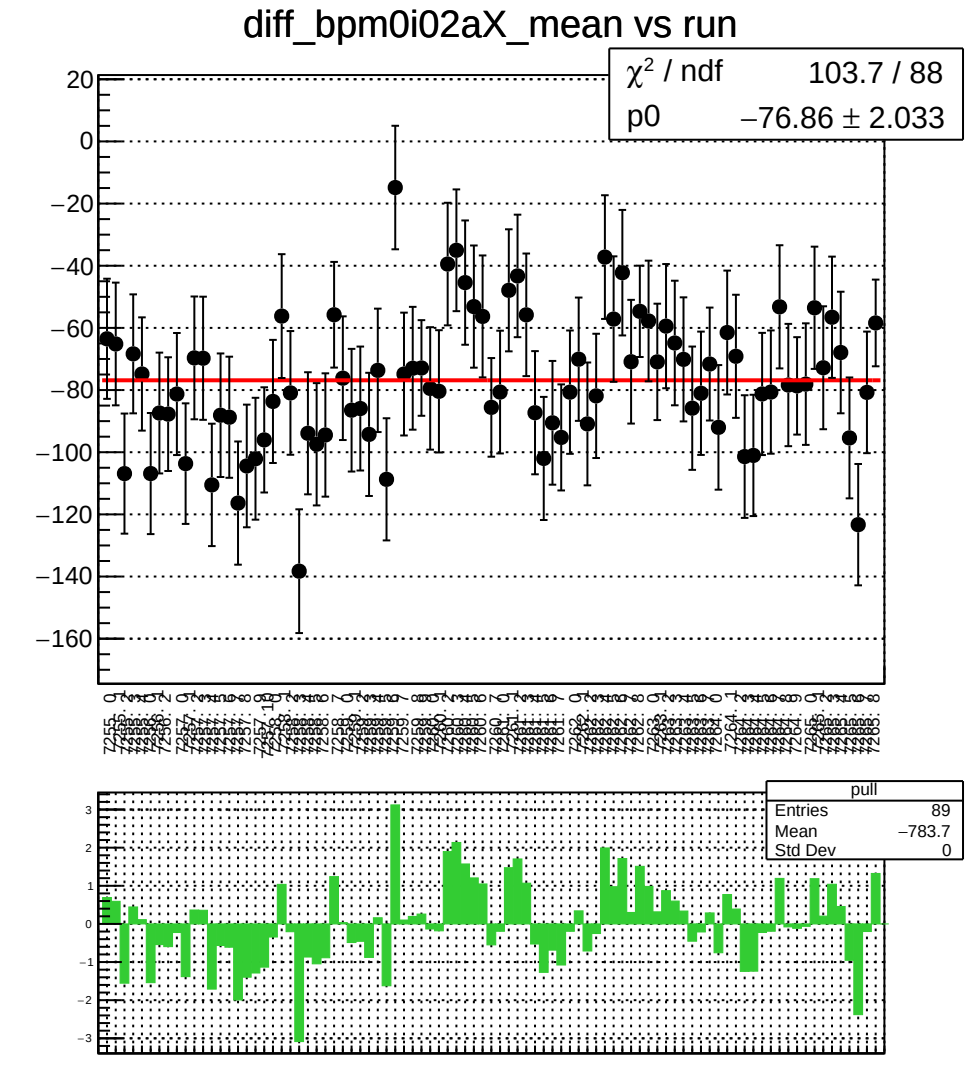

pull1D
Entries 89
Mean −6.976e−05
Std Dev 1.02

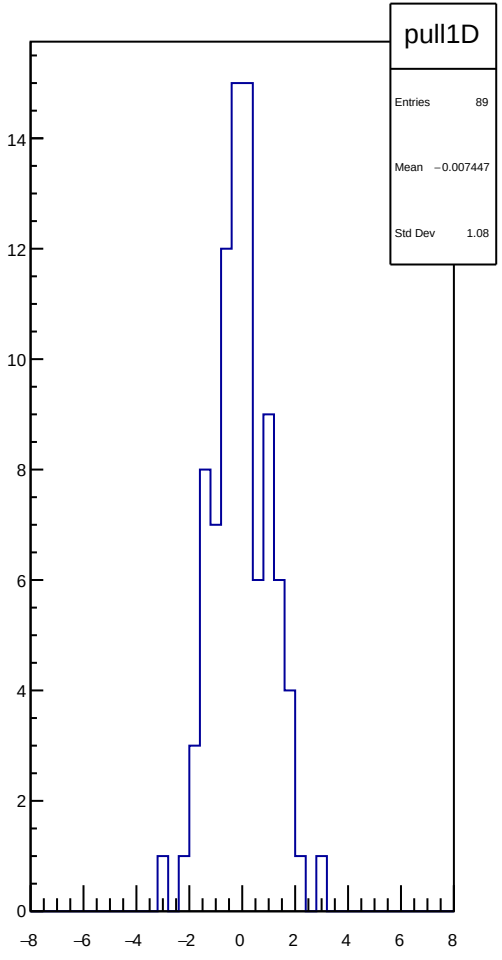

diff_bpm0i02X_rms vs run
χ^2 / ndf 430.3 / 88
p0 1791 ± 1.376
1850
1800
1750
1700
1650
1600

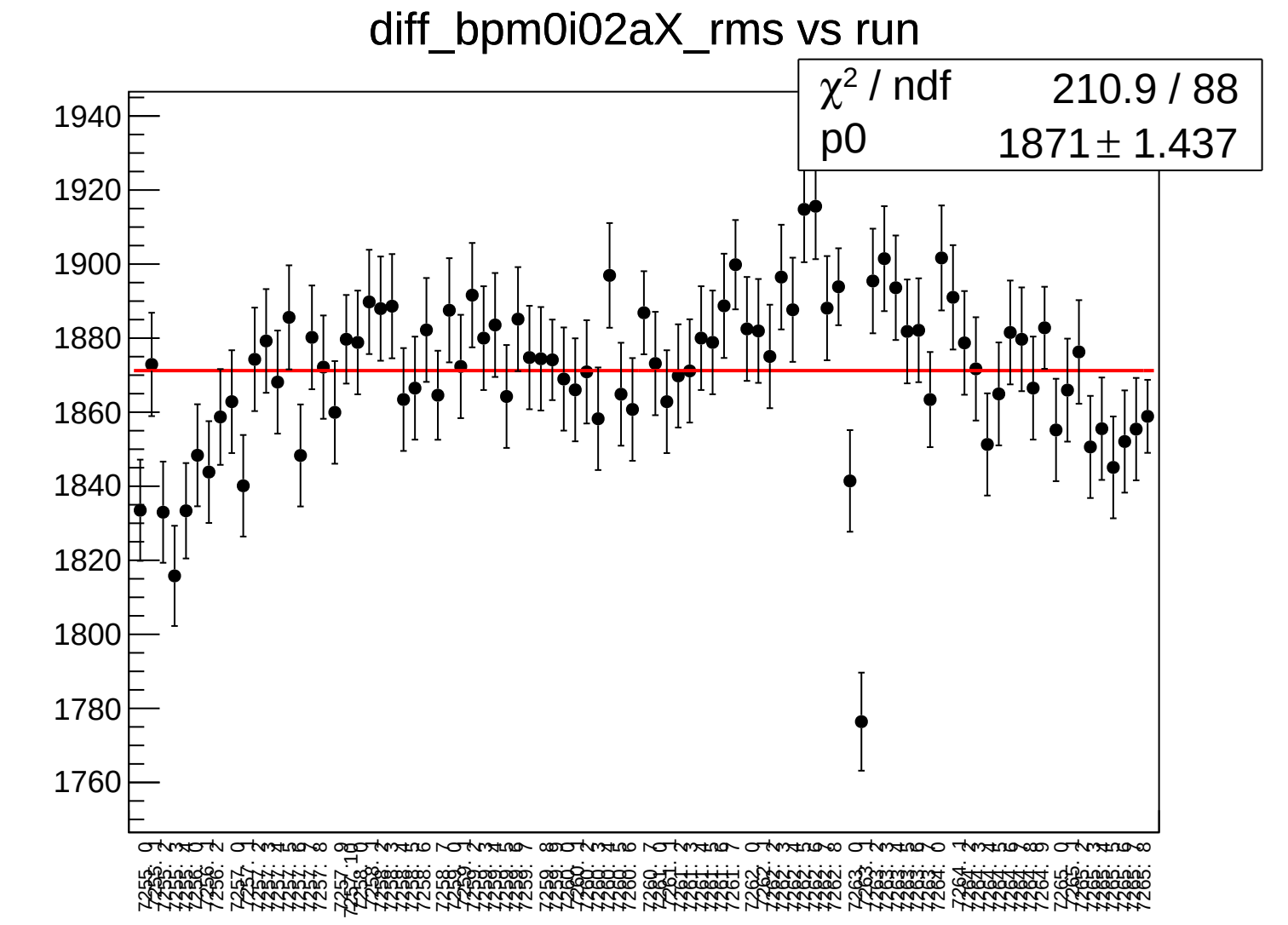

diff_bpm0i02Y_mean vs run
χ² / ndf 78.88 / 88
p0 −40.55 ± 1.493
0
−20
−40
−60
−80
−100
pull
Entries 89
Mean 176.3
Std Dev 0
2
1
0
−1
−2
−3

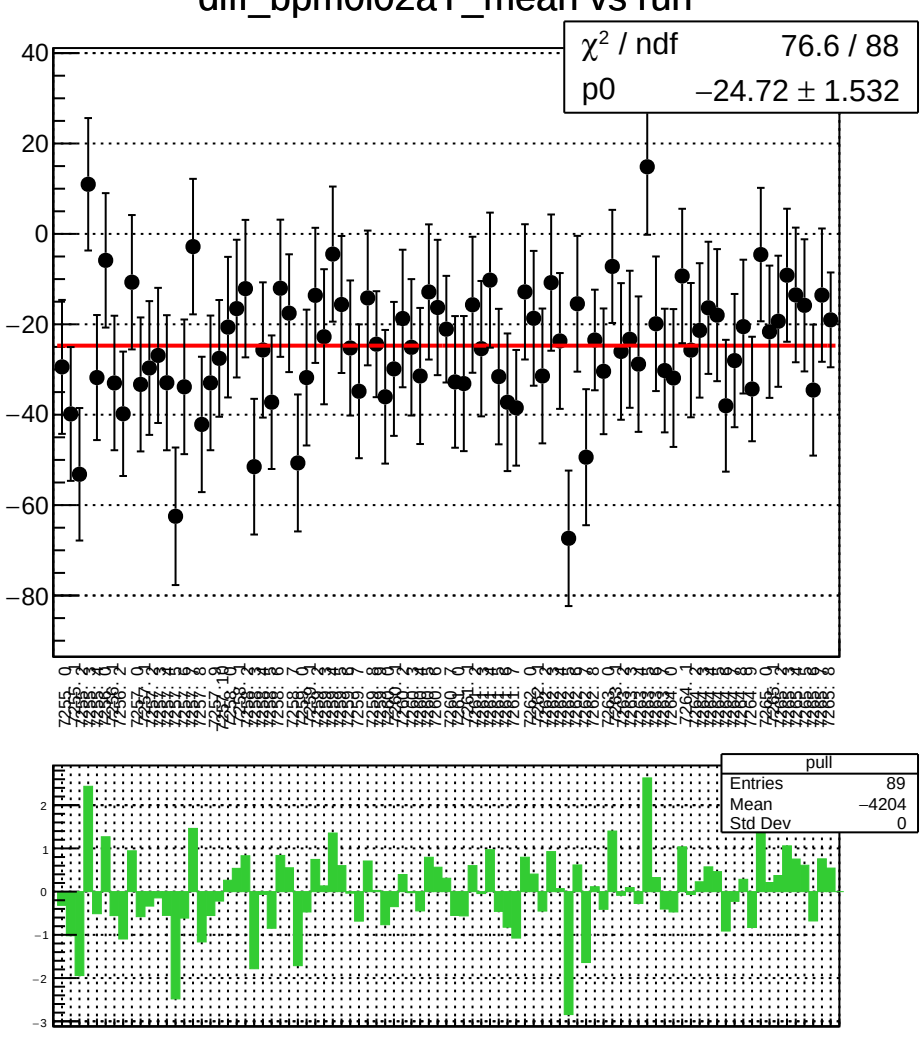

pull1D
Entries 89
Mean 0.01326
Std Dev 0.9413
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

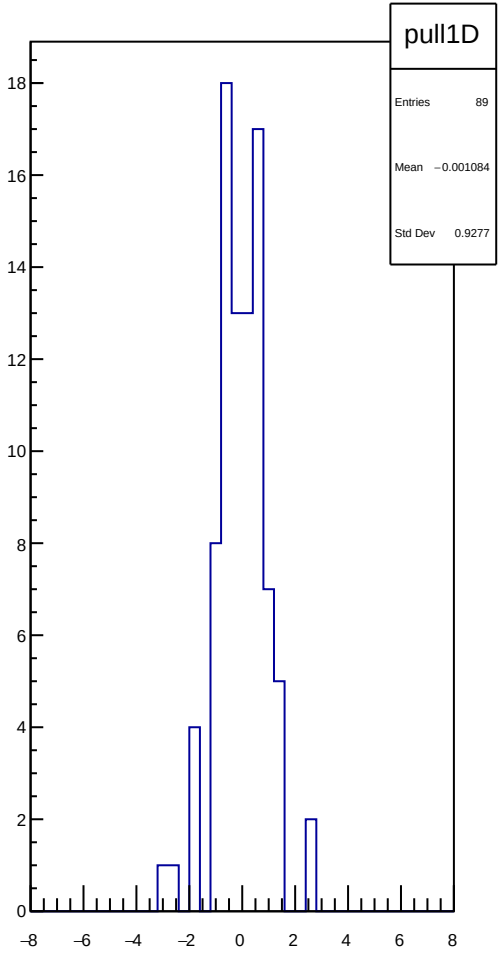

diff_bpm0i02Y_rms vs run
χ² / ndf 421.6 / 88
p0 1374 ± 1.055
1420
1400
1380
1360
1340
1320
1300
1280
1260

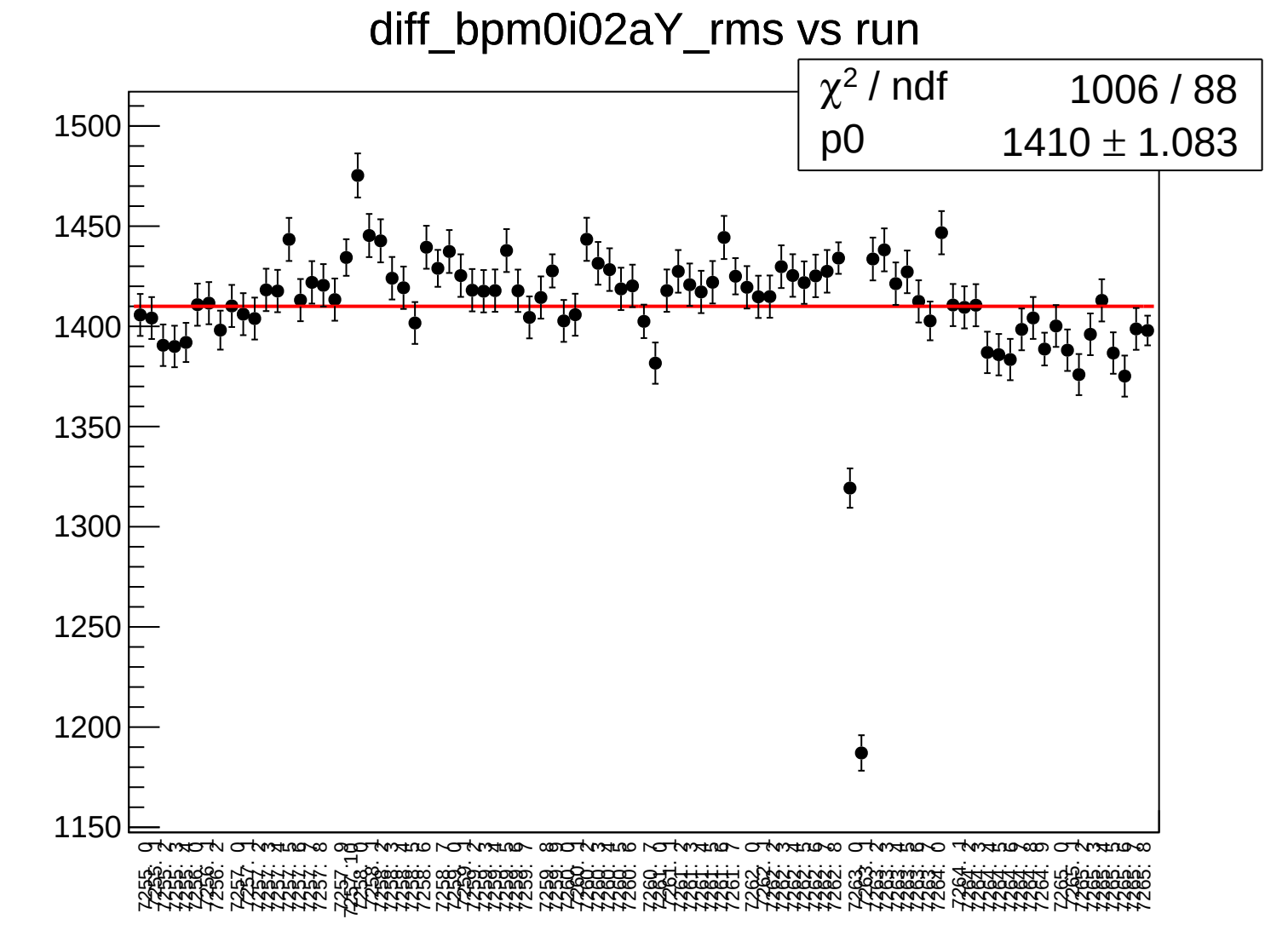

diff_bpm0i02aX_mean vs run
χ² / ndf 103.7 / 88
p0 −76.86 ± 2.033
pull
Entries 89
Mean −783.7
Std Dev 0

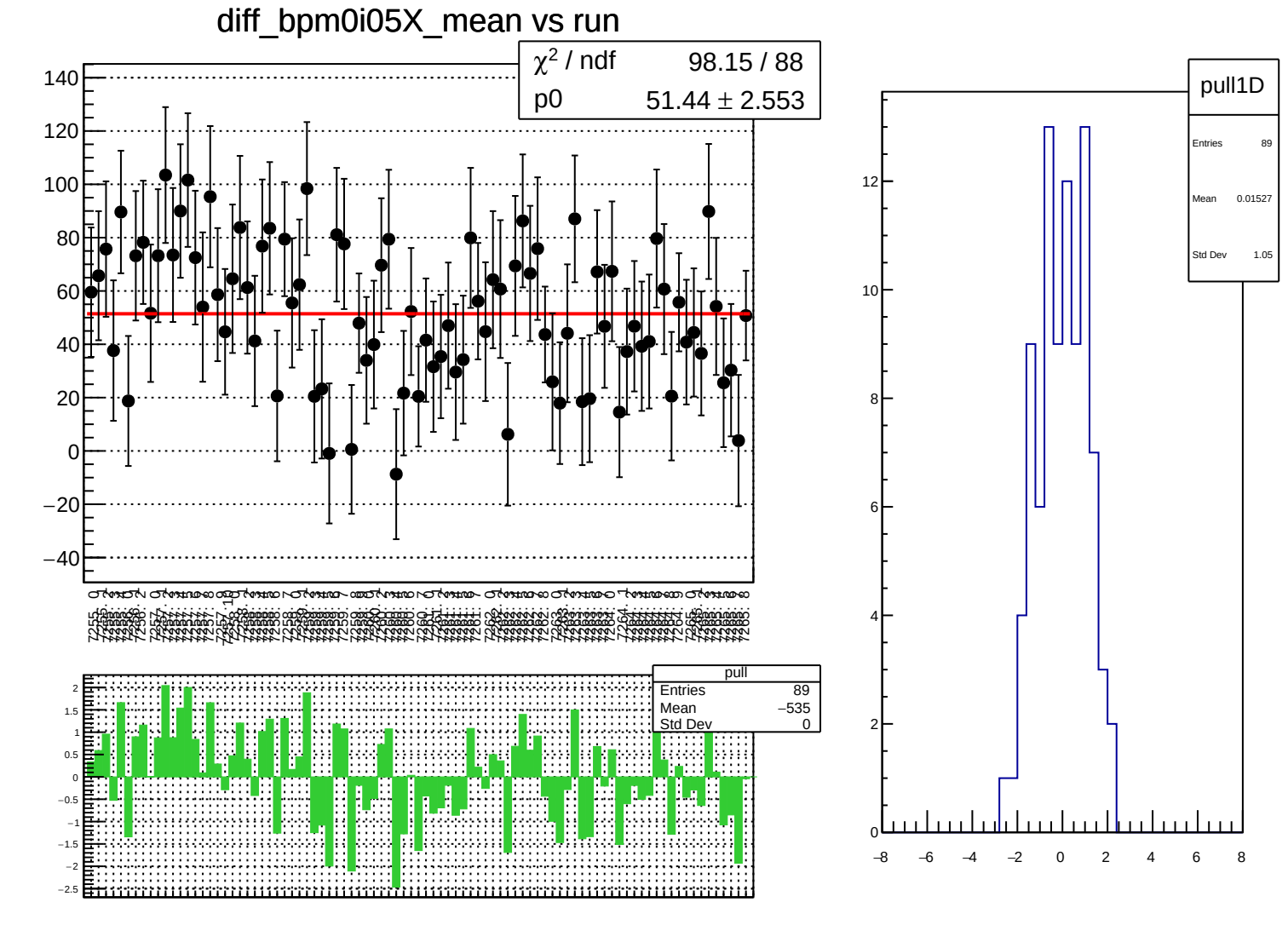

pull1D
Entries 89
Mean −0.007447
Std Dev 1.08

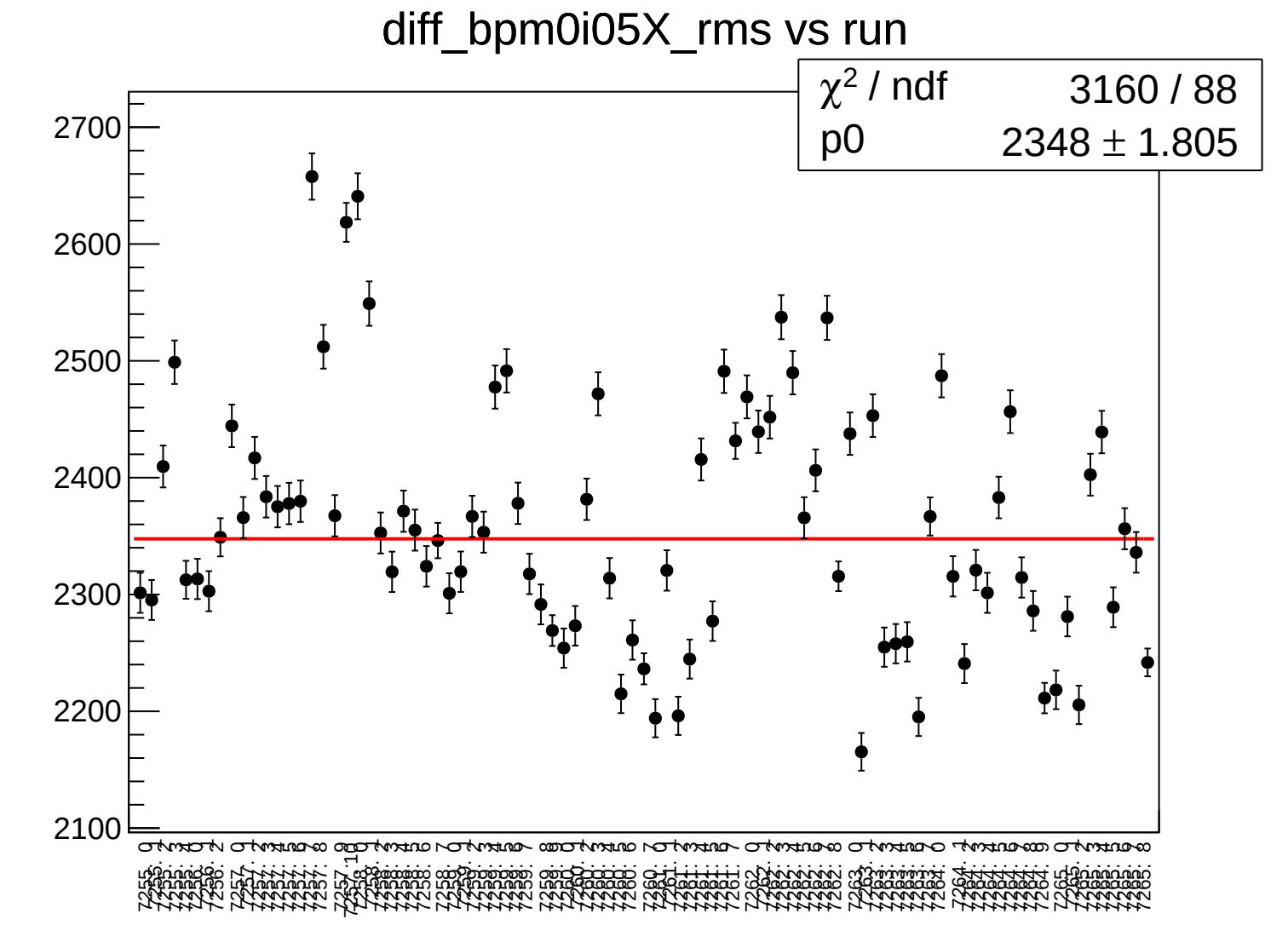

diff_bpm0i02aX_rms vs run
χ² / ndf 210.9 / 88
p0 1871 ± 1.437
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

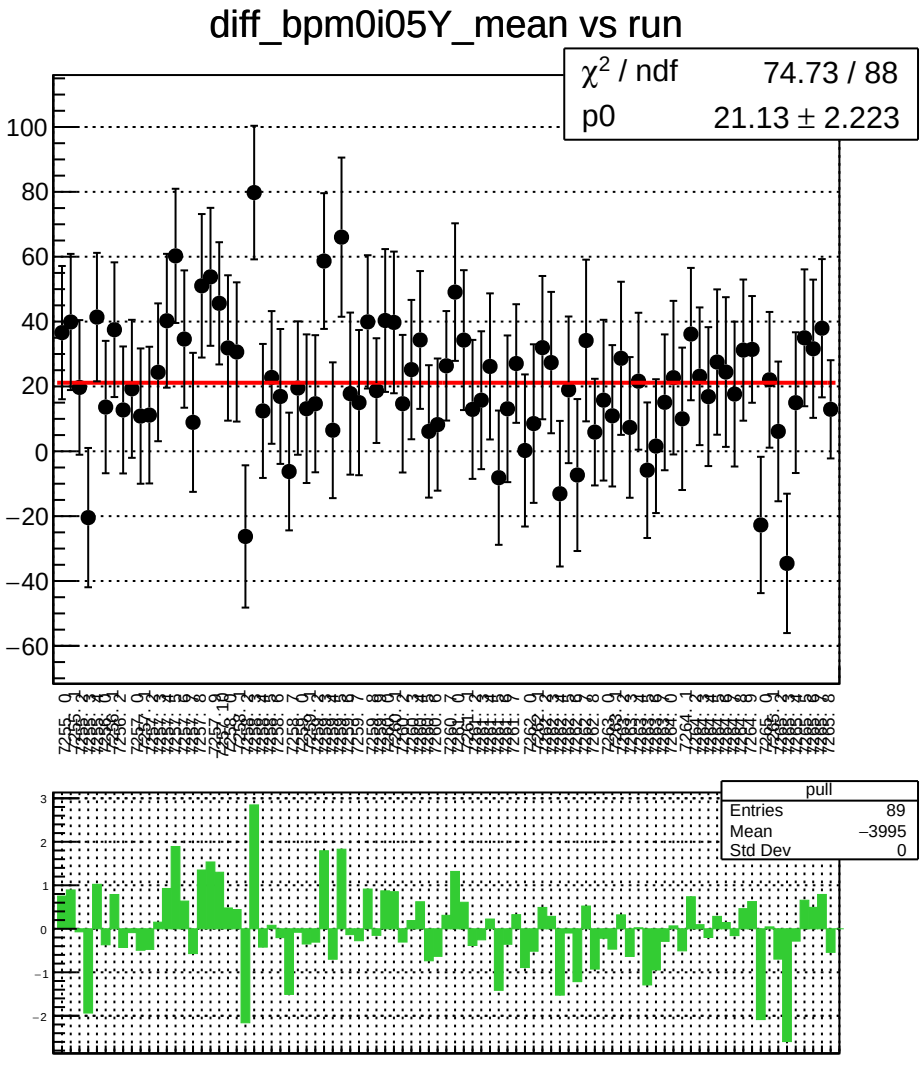

diff_bpm0i02aY_mean vs run
χ^2 / ndf 76.6 / 88
p0 −24.72 ± 1.532
pull
Entries 89
Mean −4204
Std Dev 0

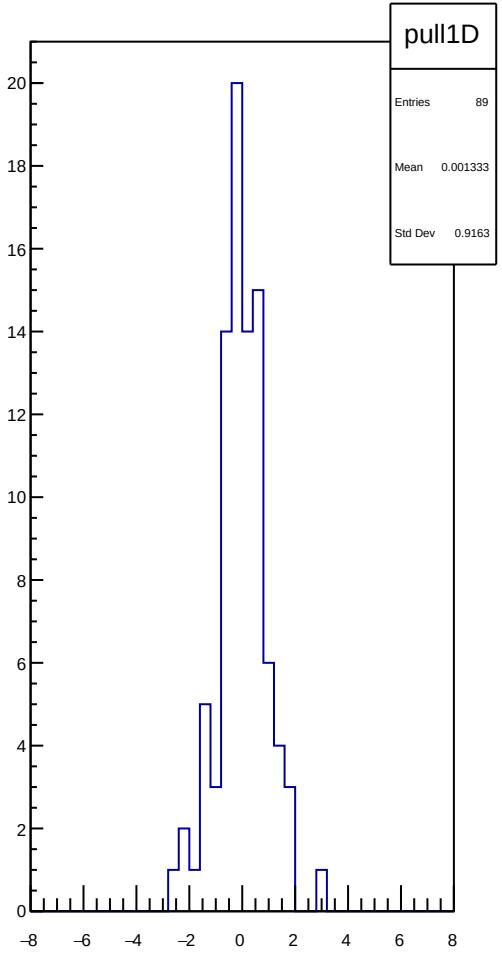

pull1D
Entries 89
Mean −0.001084
Std Dev 0.9277

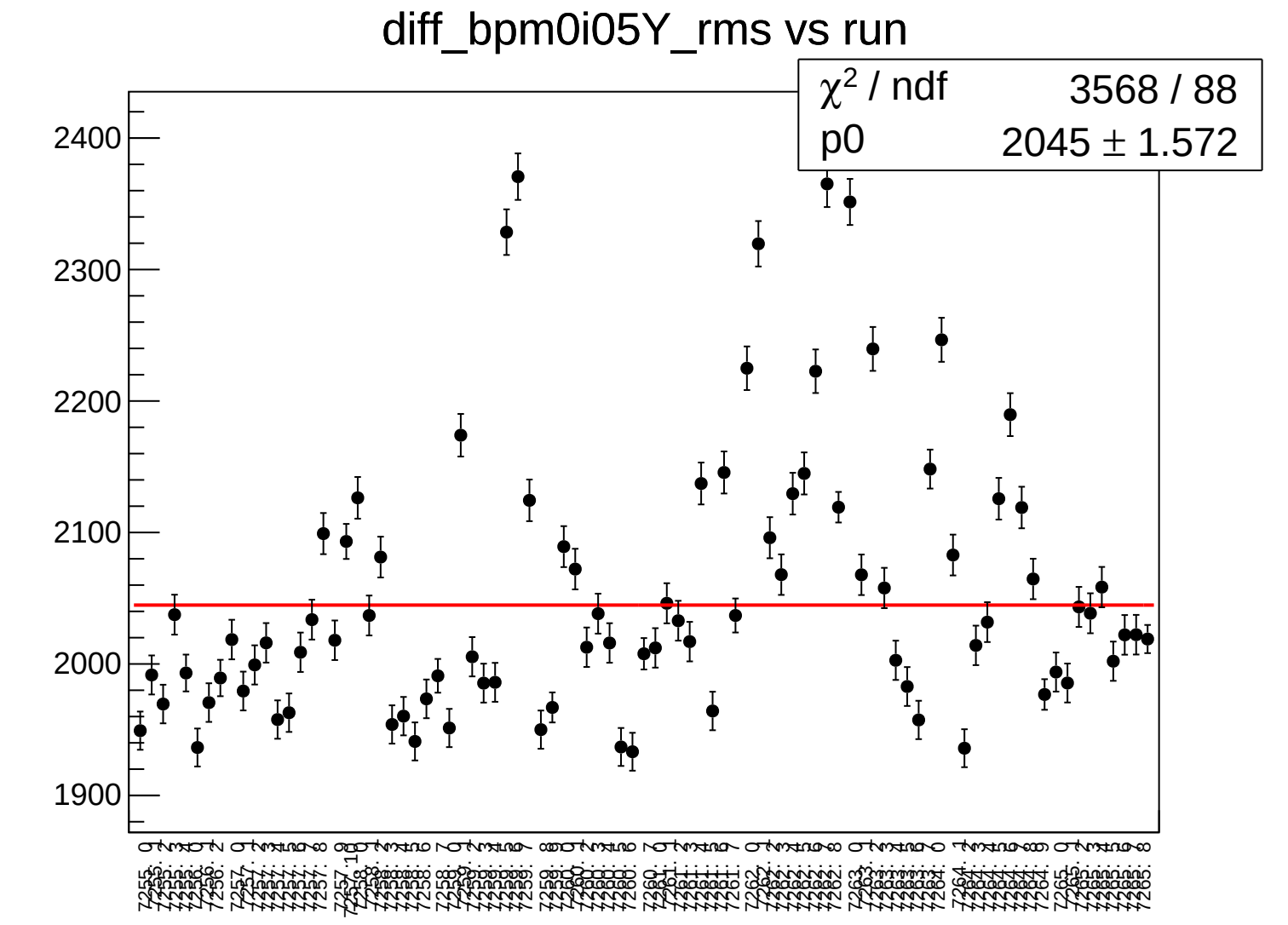

diff_bpm0i02aY_rms vs run
χ² / ndf 1006 / 88
p0 1410 ± 1.083
1500
1450
1400
1350
1300
1250
1200
1150

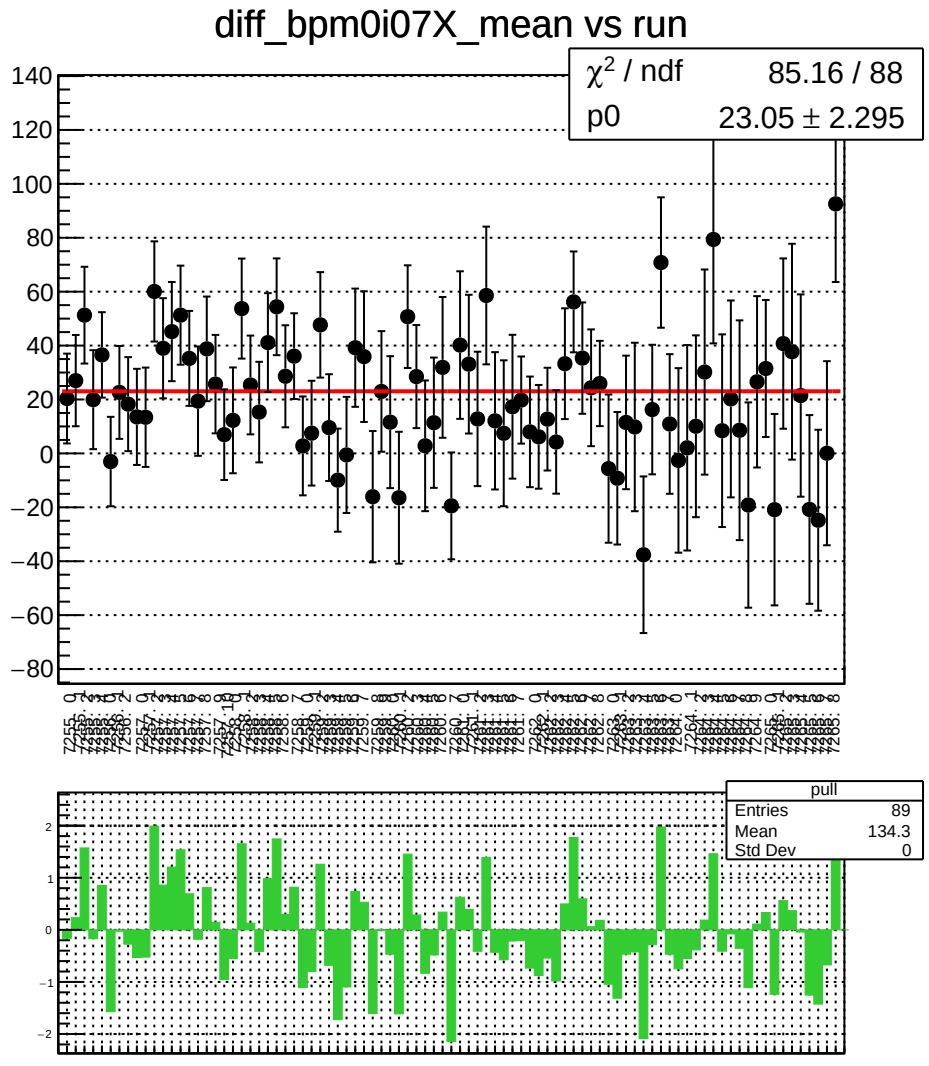

diff_bpm0i05X_mean vs run
χ² / ndf 98.15 / 88
p0 51.44 ± 2.553
pull
Entries 89
Mean −535
Std Dev 0
pull1D
Entries 89
Mean 0.01527
Std Dev 1.05

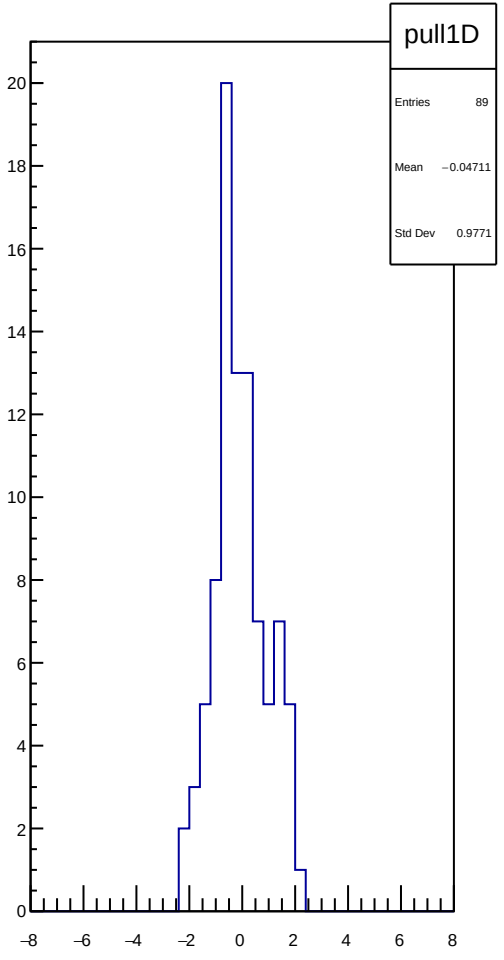

diff_bpm0i05X_rms vs run
χ² / ndf 3160 / 88
p0 2348 ± 1.805
2700
2600
2500
2400
2300
2200
2100

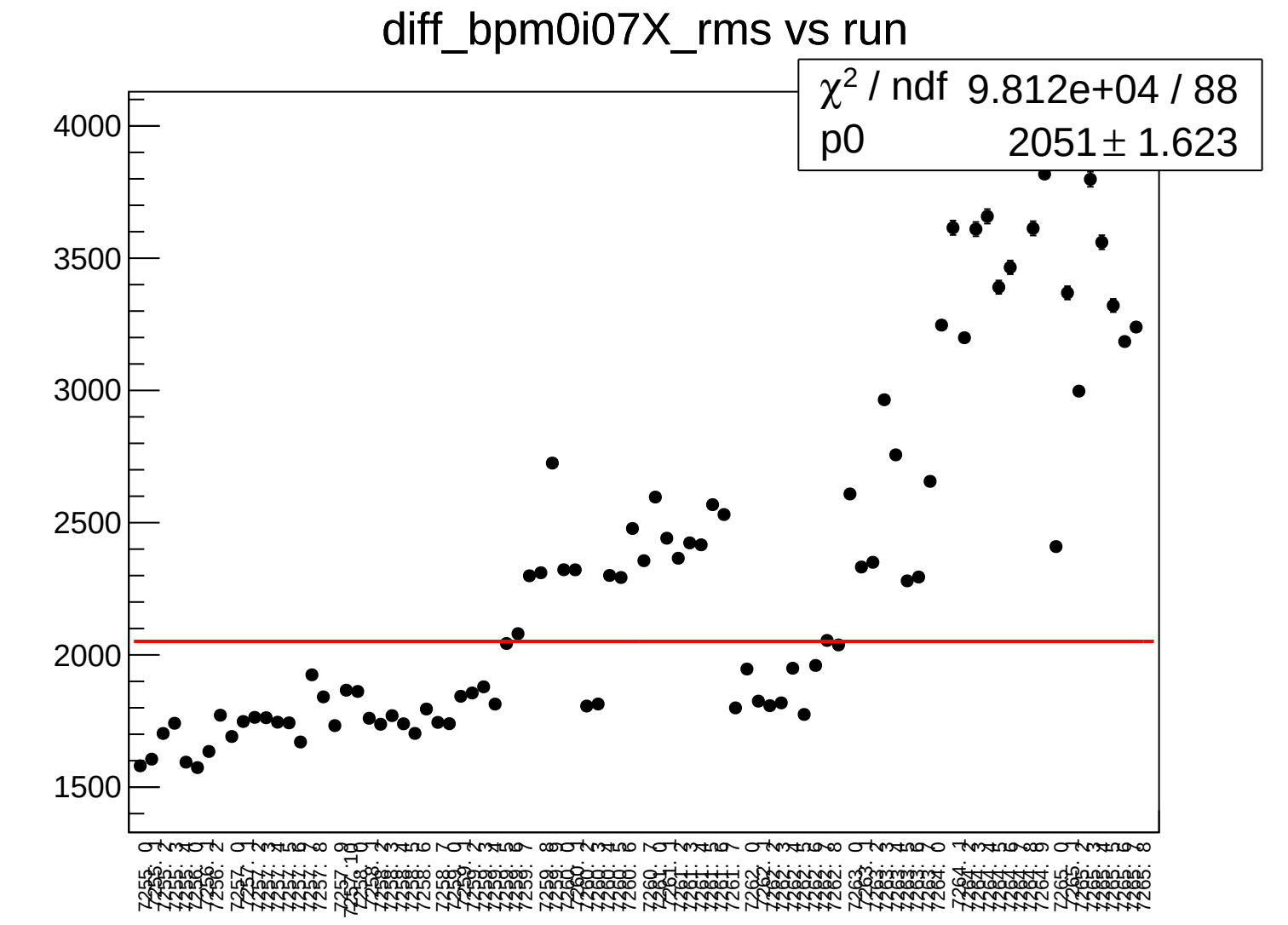

diff_bpm0i05Y_mean vs run
χ^2 / ndf 74.73 / 88
p0 21.13 ± 2.223
pull
Entries 89
Mean −3995
Std Dev 0

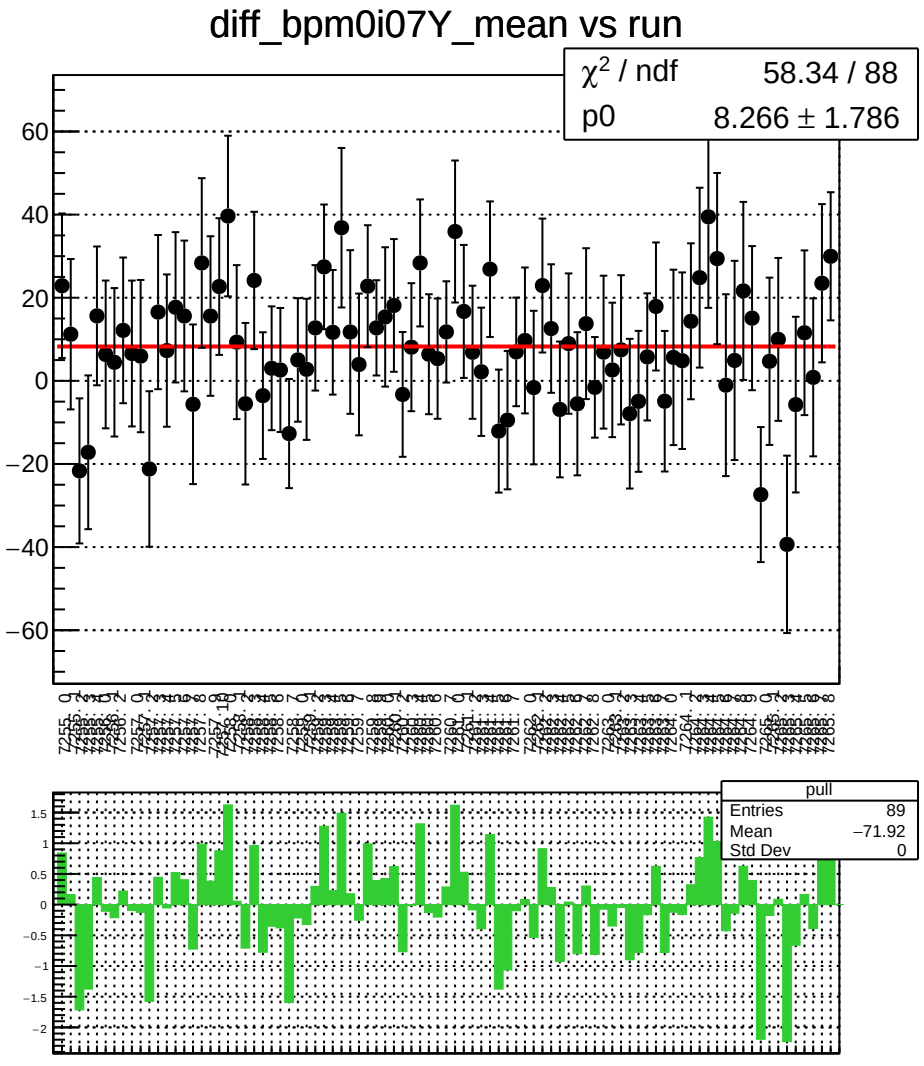

pull1D
Entries 89
Mean 0.001333
Std Dev 0.9163

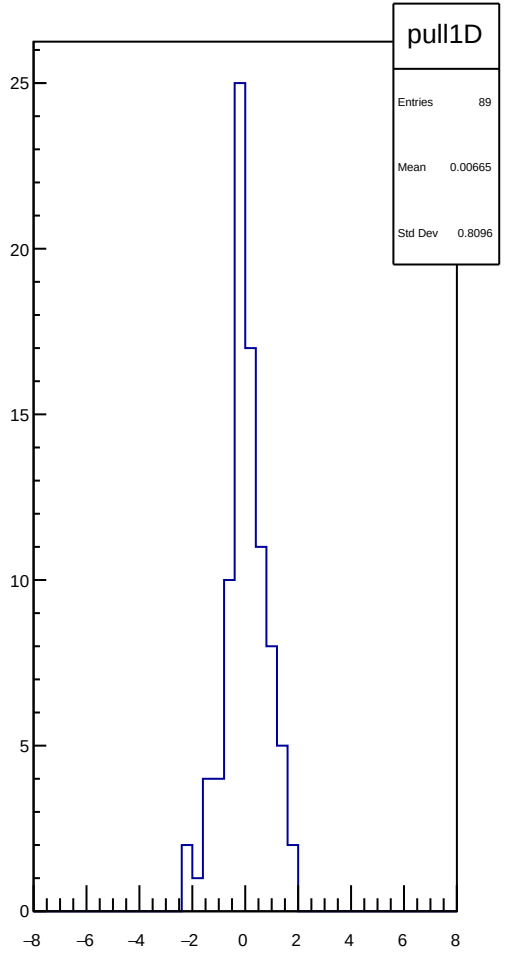

diff_bpm0i05Y_rms vs run
χ² / ndf 3568 / 88
p0 2045 ± 1.572
2400
2300
2200
2100
2000
1900

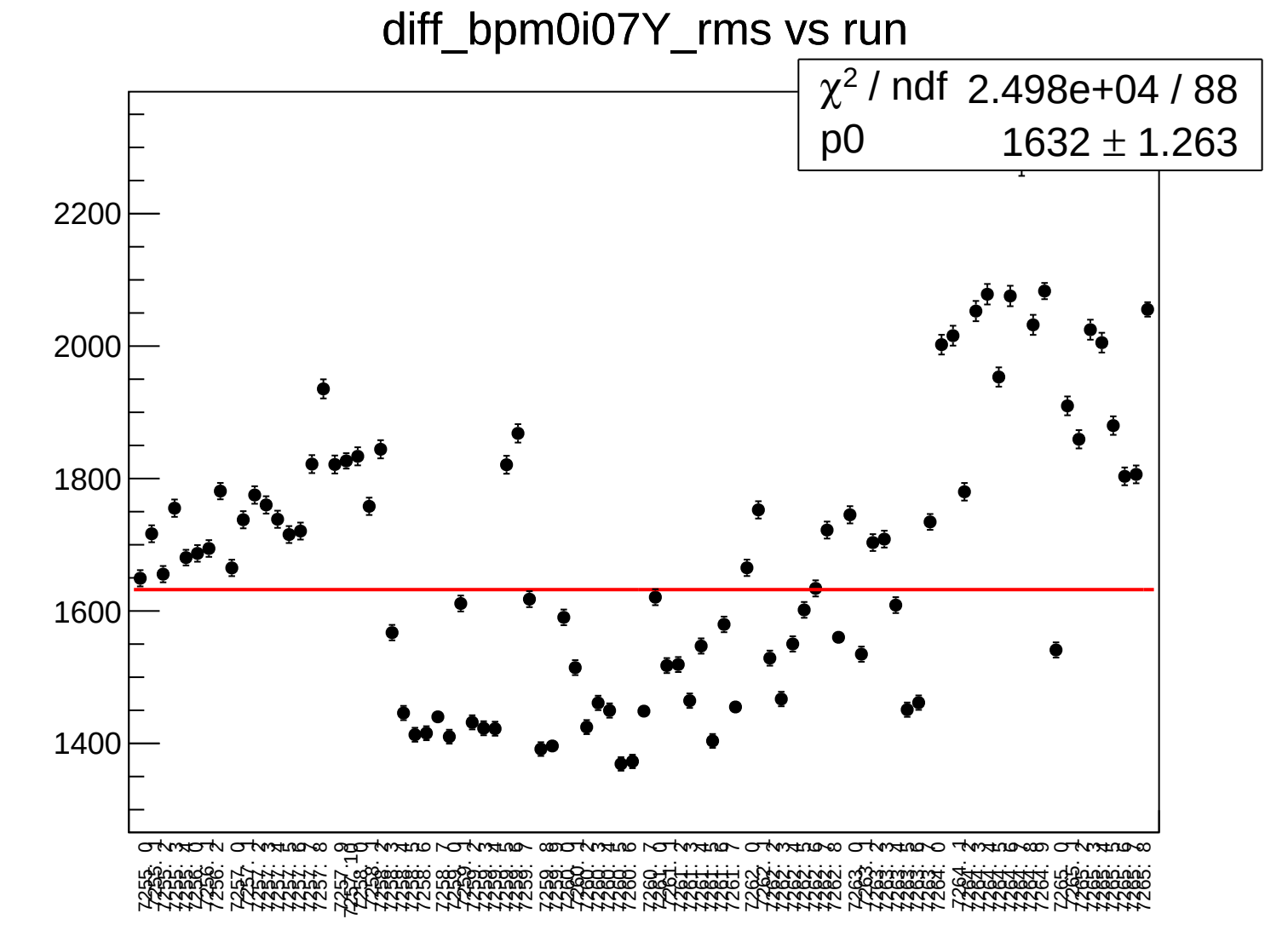

diff_bpm0i07X_mean vs run
χ^2 / ndf 85.16 / 88
p0 23.05 ± 2.295
pull
Entries 89
Mean 134.3
Std Dev 0

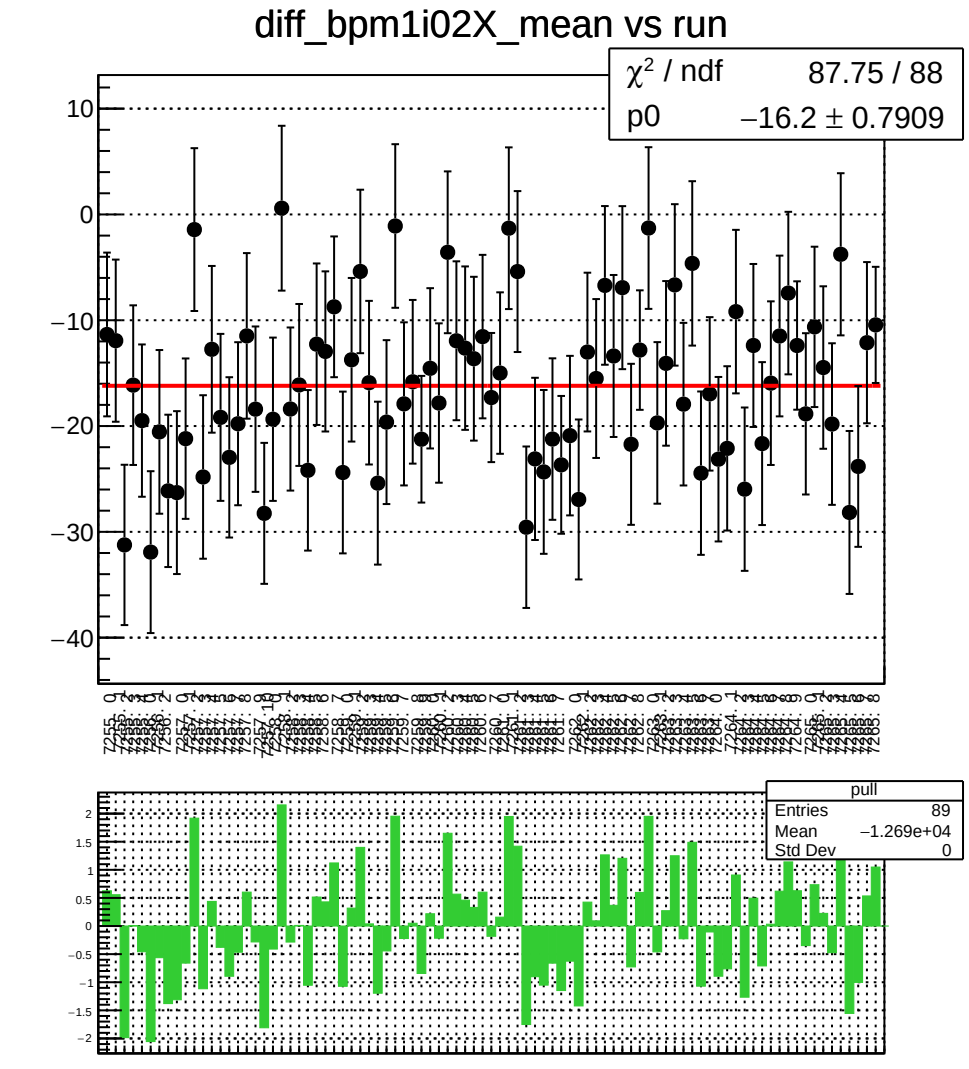

pull1D
Entries 89
Mean −0.04711
Std Dev 0.9771

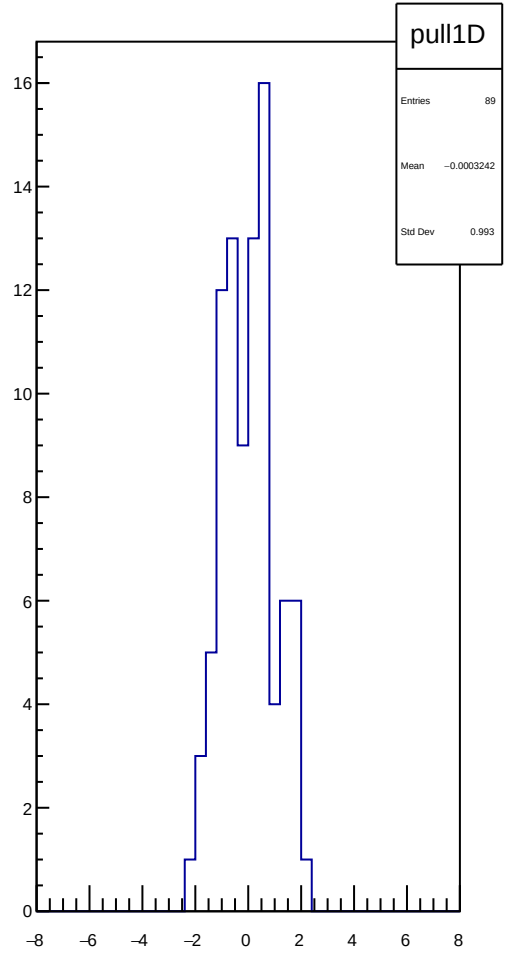

diff_bpm0i07X_rms vs run
χ² / ndf 9.812e+04 / 88
p0 2051 ± 1.623
4000
3500
3000
2500
2000
1500

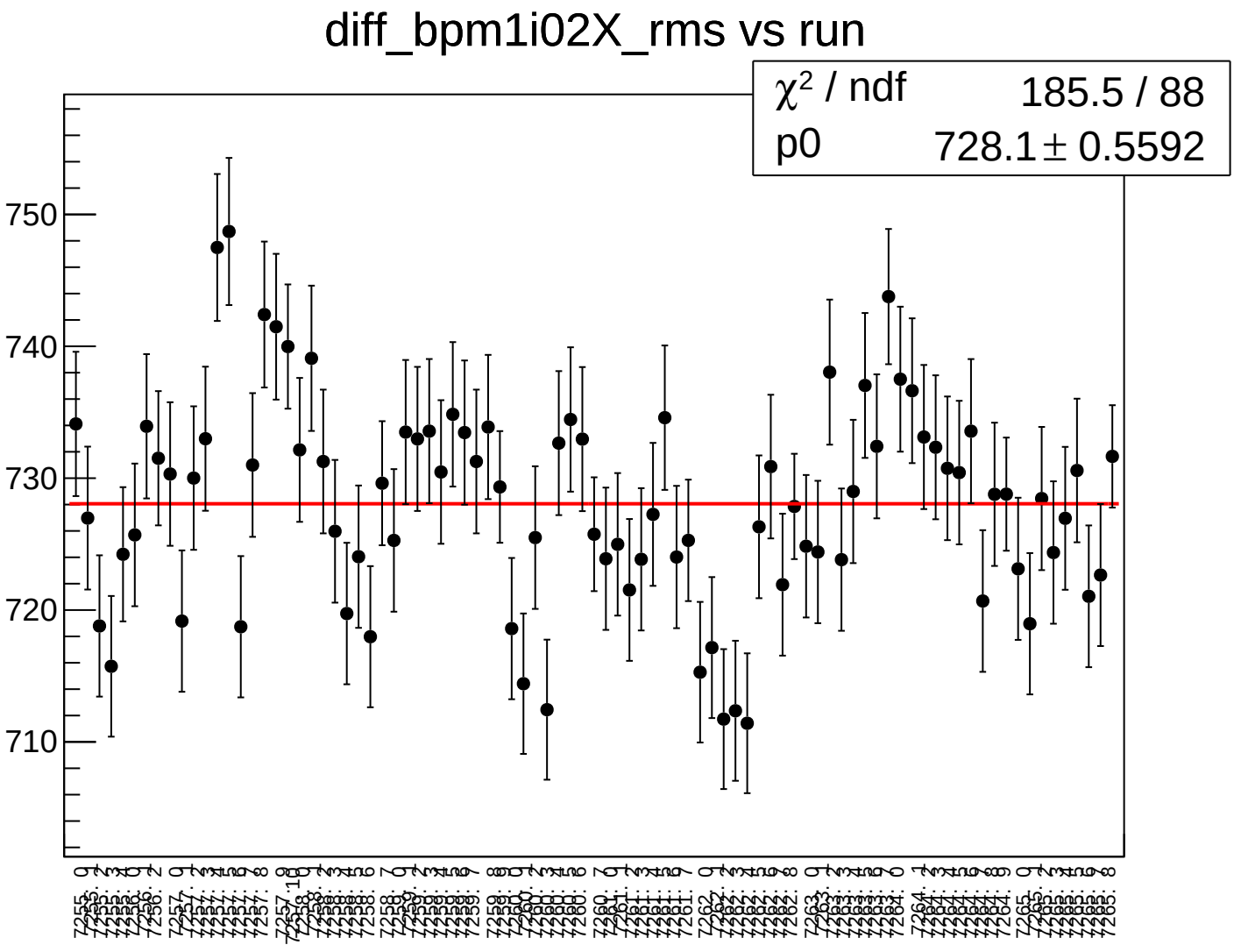

diff_bpm0i07Y_mean vs run
χ^2 / ndf 58.34 / 88
p0 8.266 ± 1.786
pull
Entries 89
Mean −71.92
Std Dev 0

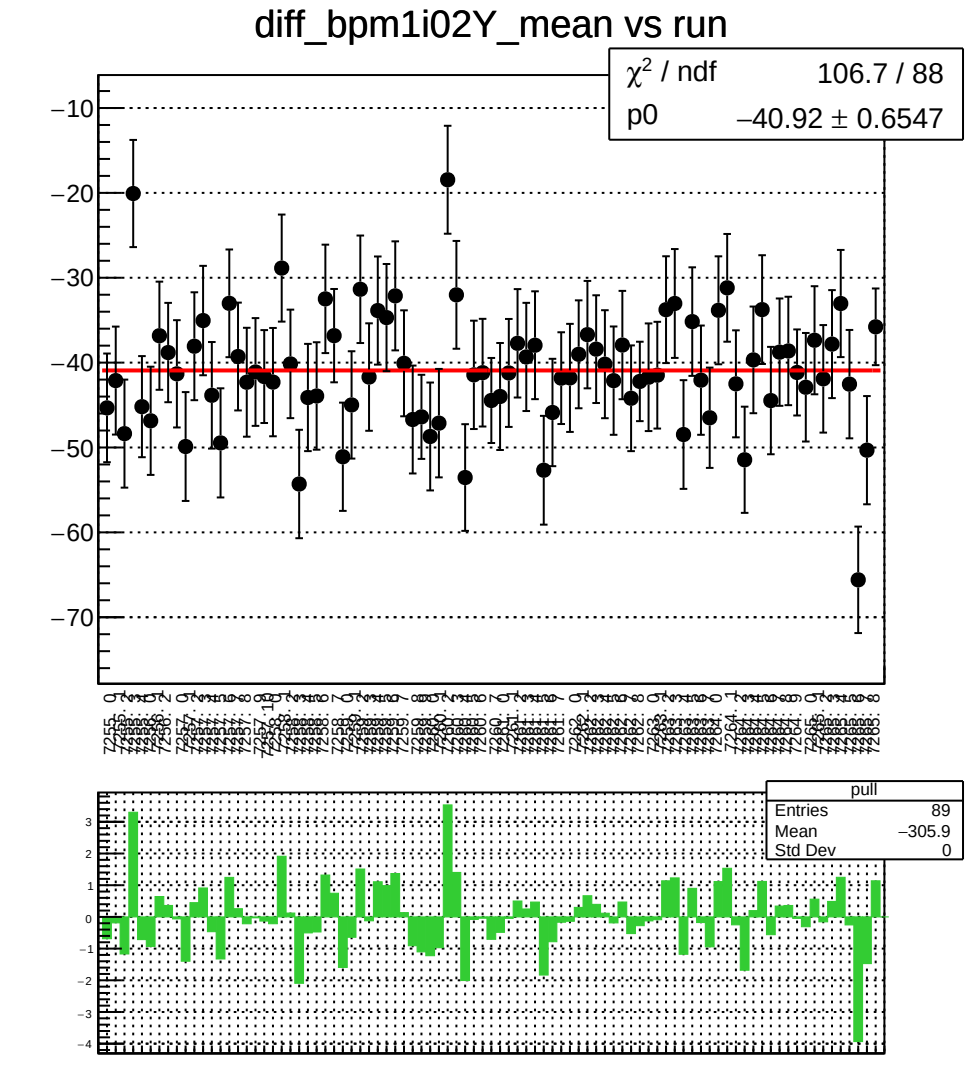

pull1D
Entries 89
Mean 0.00665
Std Dev 0.8096

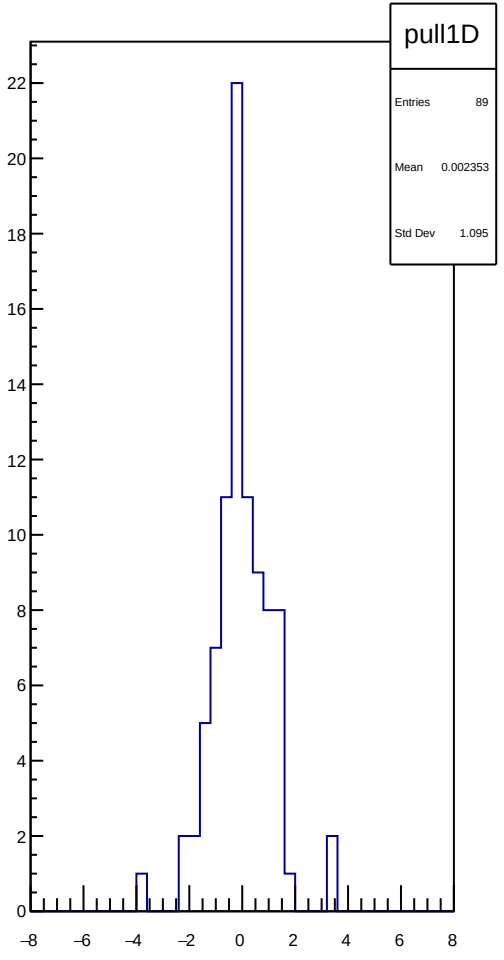

diff_bpm0i07Y_rms vs run
χ² / ndf 2.498e+04 / 88
p0 1632 ± 1.263
2200
2000
1800
1600
1400

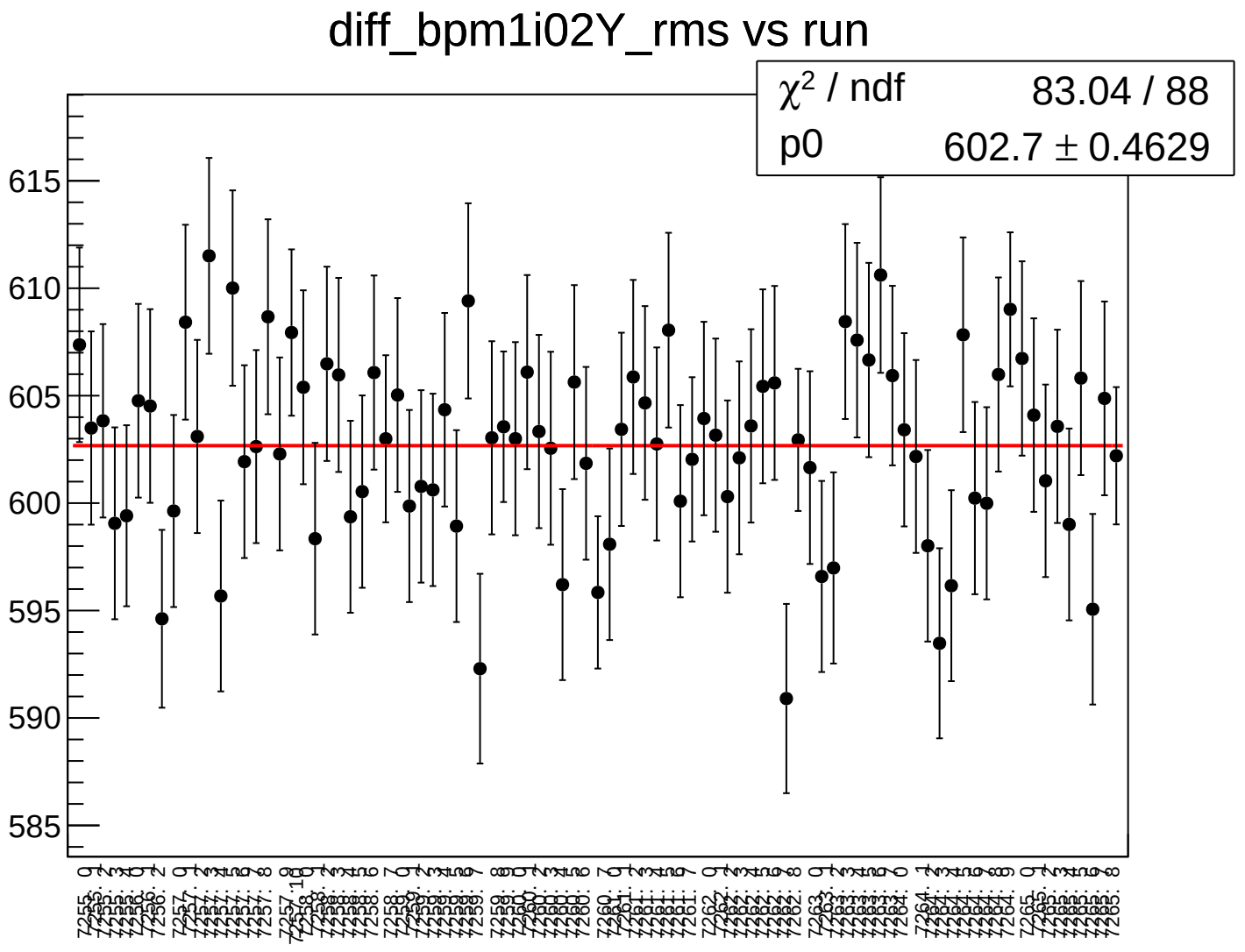

diff_bpm1i02X_mean vs run
χ^2 / ndf 87.75 / 88
p0 −16.2 ± 0.7909
pull
Entries 89
Mean −1.269e+04
Std Dev 0

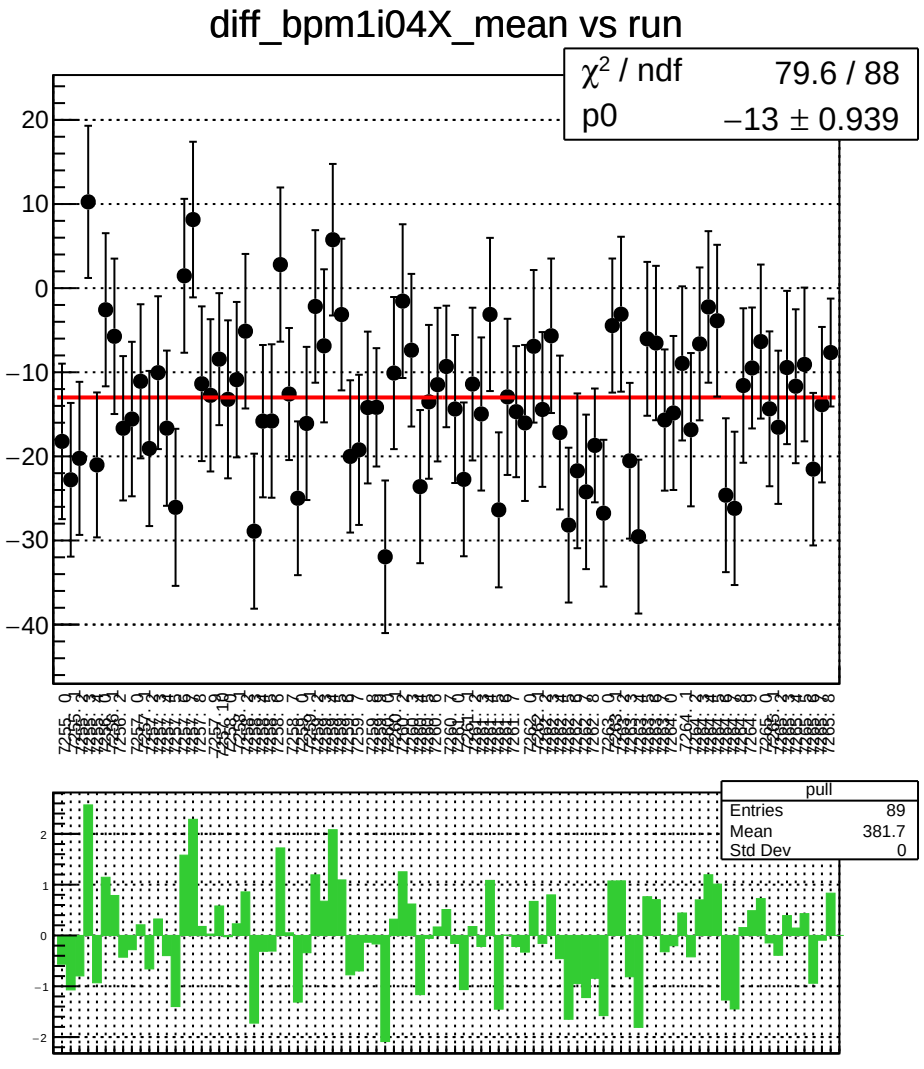

pull1D
Entries 89
Mean −0.0003242
Std Dev 0.993

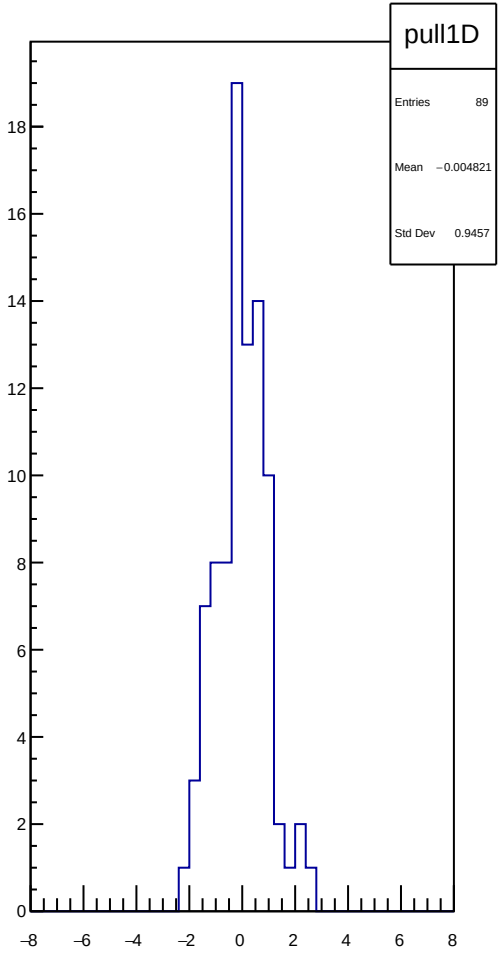

diff_bpm1i02X_rms vs run
χ² / ndf 185.5 / 88
p0 728.1 ± 0.5592
750
740
730
720
710

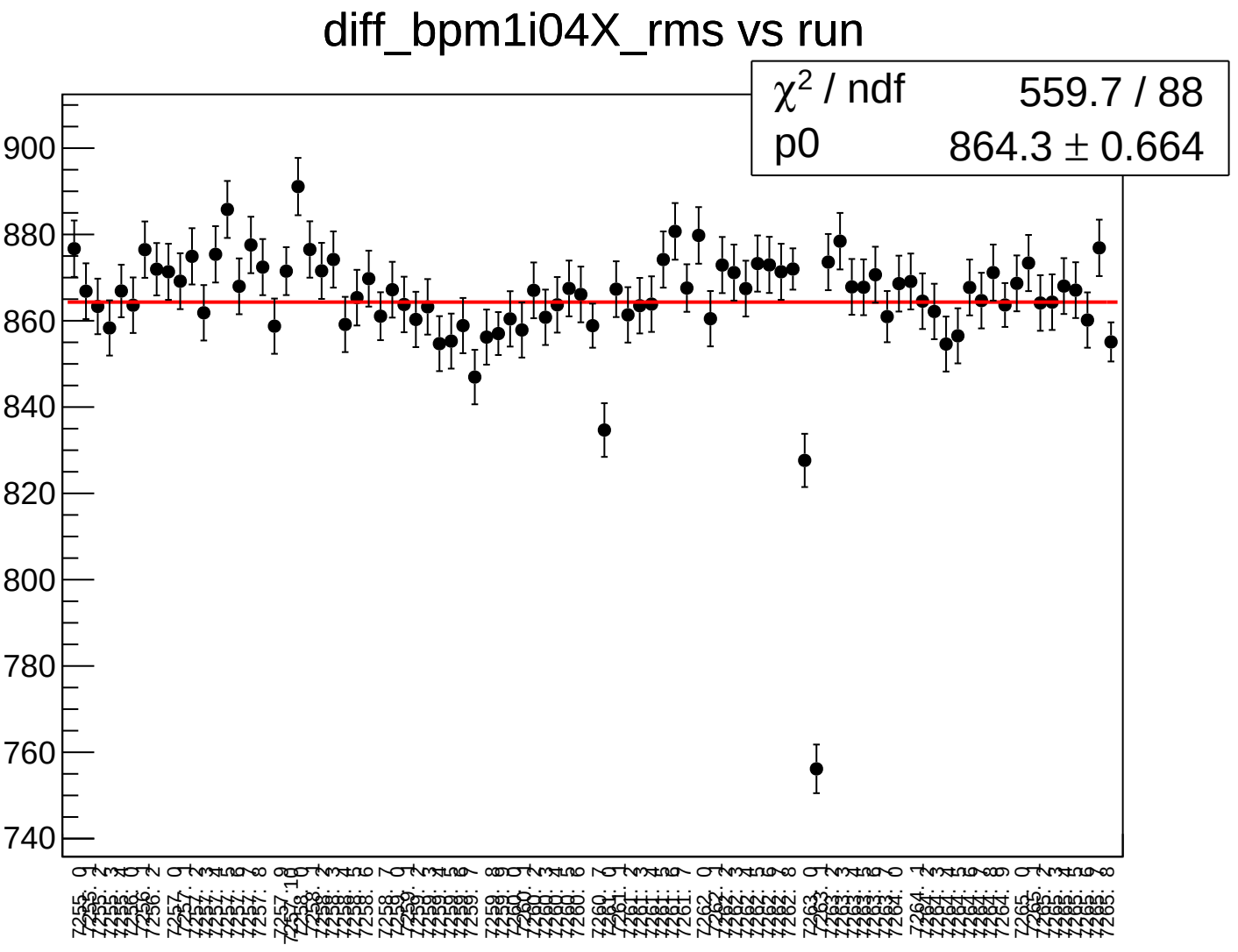

diff_bpm1i02Y_mean vs run
χ² / ndf 106.7 / 88
p0 −40.92 ± 0.6547
pull
Entries 89
Mean −305.9
Std Dev 0

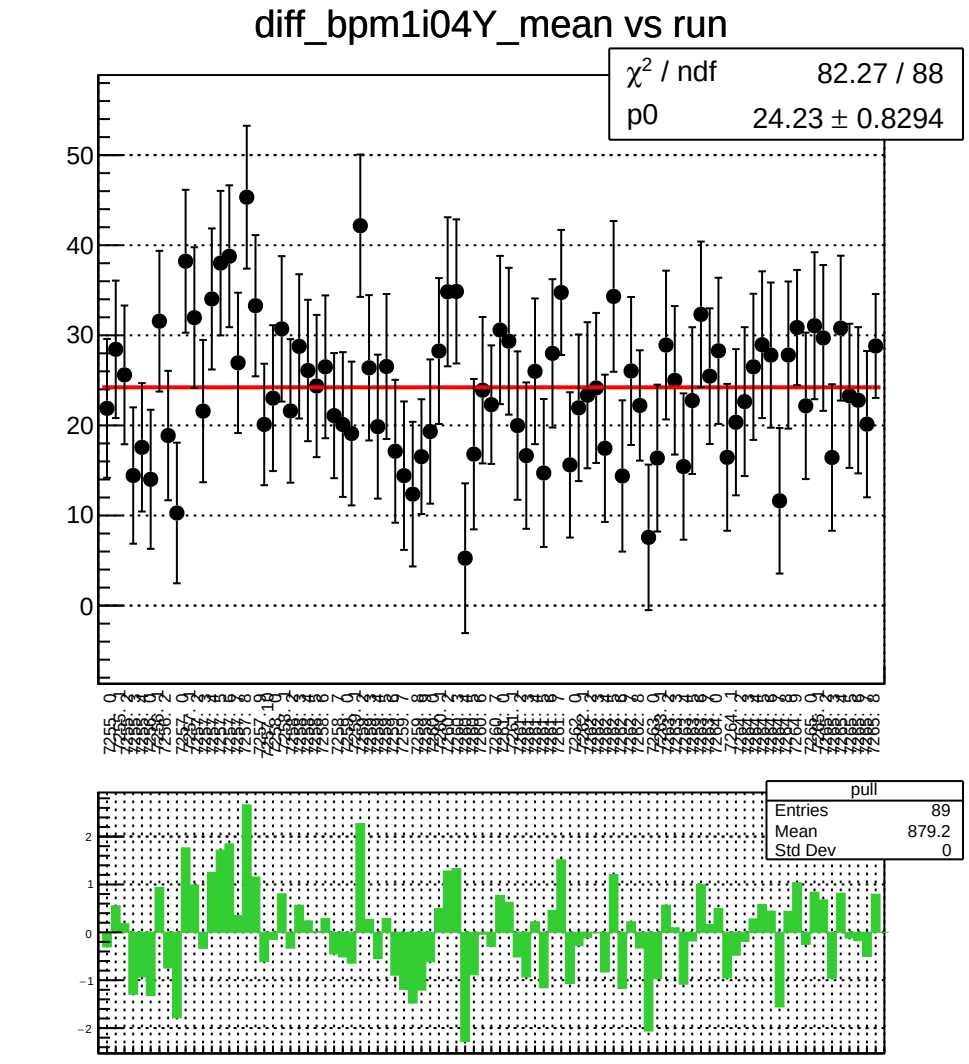

pull1D
Entries 89
Mean 0.002353
Std Dev 1.095

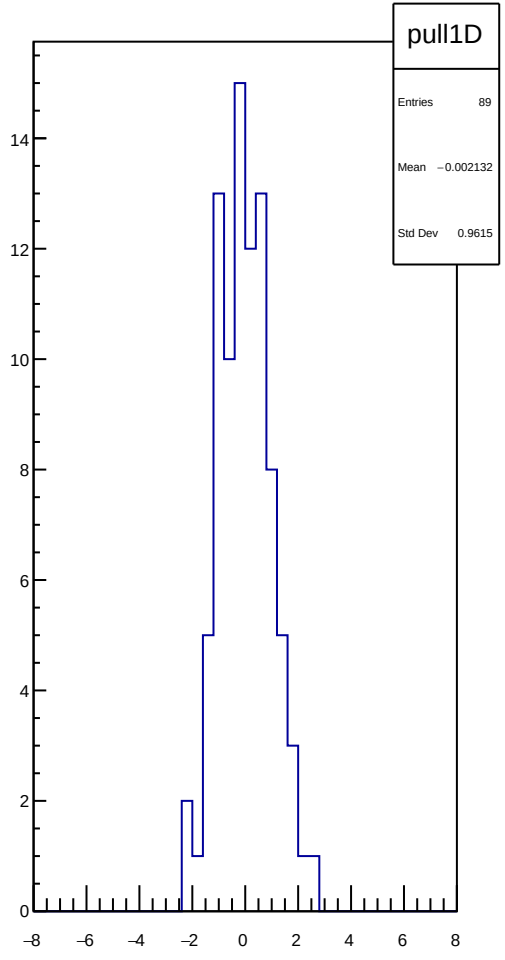

diff_bpm1i02Y_rms vs run
χ² / ndf 83.04 / 88
p0 602.7 ± 0.4629
615
610
605
600
595
590
585

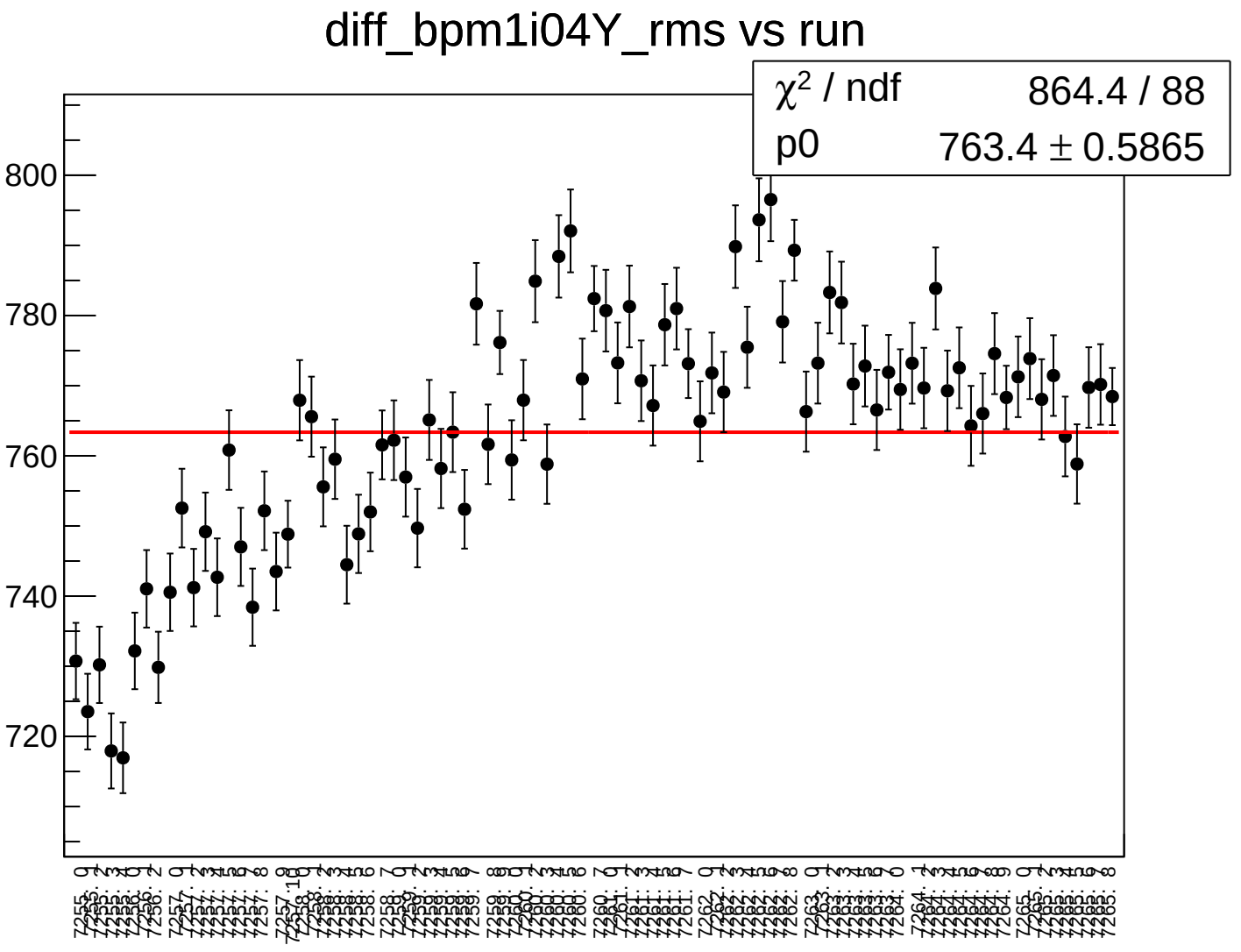

diff_bpm1i04X_mean vs run
χ^2 / ndf 79.6 / 88
p0 −13 ± 0.939
pull
Entries 89
Mean 381.7
Std Dev 0

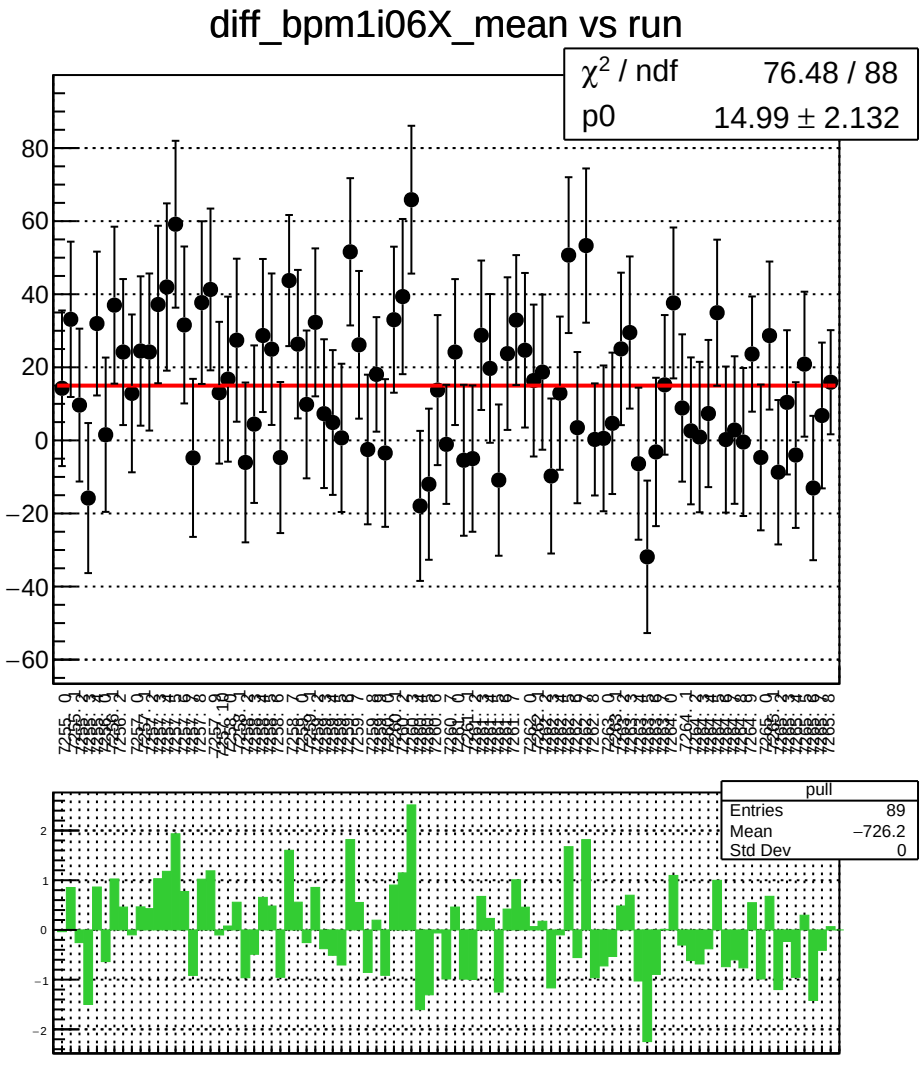

pull1D
Entries 89
Mean −0.004821
Std Dev 0.9457

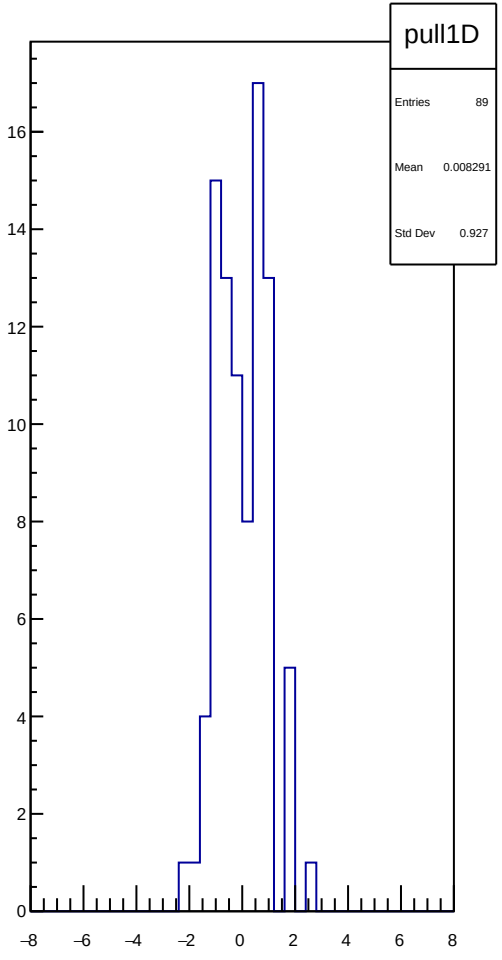

diff_bpm1i04X_rms vs run
χ² / ndf 559.7 / 88
p0 864.3 ± 0.664
900
880
860
840
820
800
780
760
740

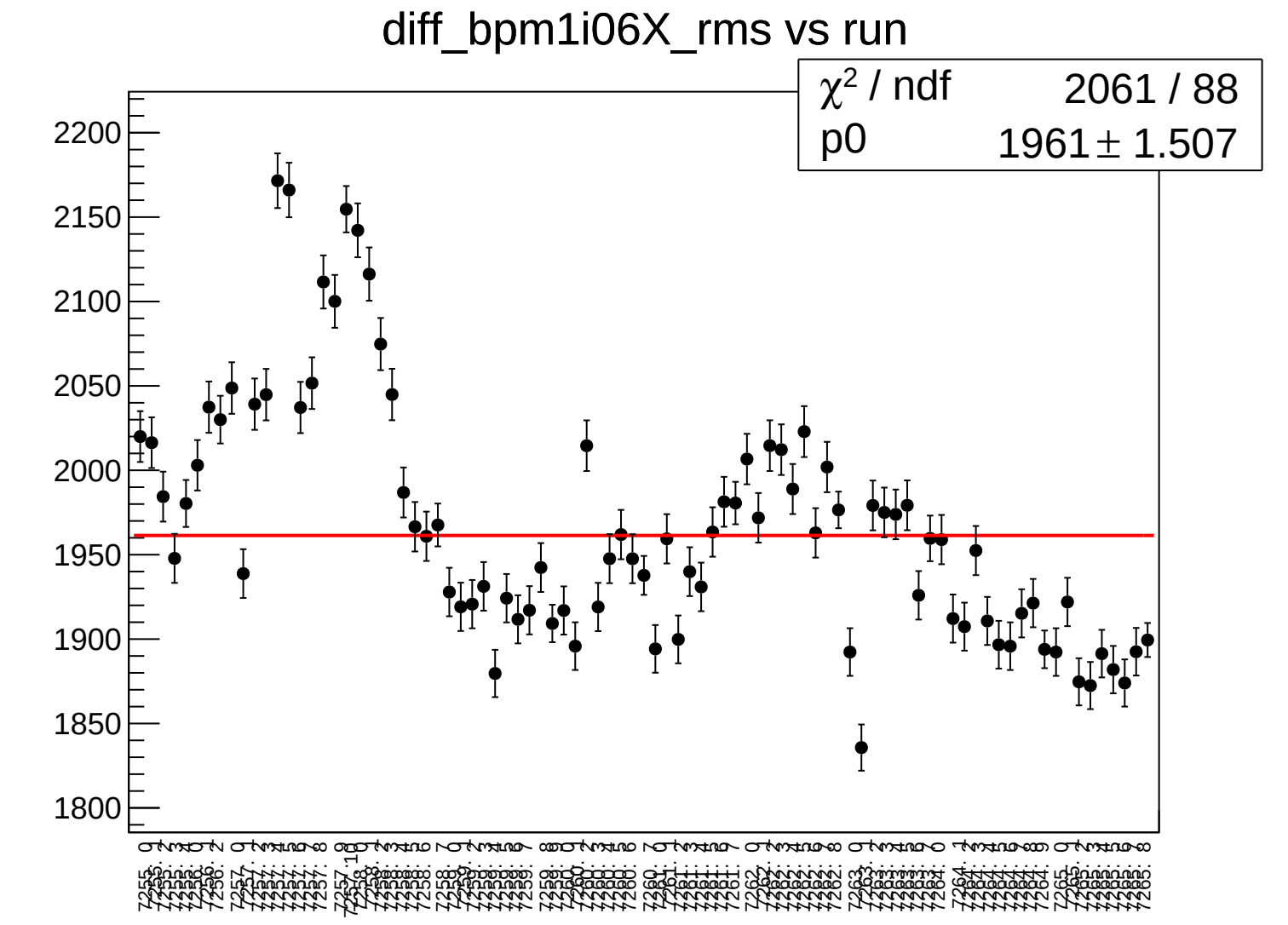

diff_bpm1i04Y_mean vs run
χ² / ndf 82.27 / 88
p0 24.23 ± 0.8294
pull
Entries 89
Mean 879.2
Std Dev 0

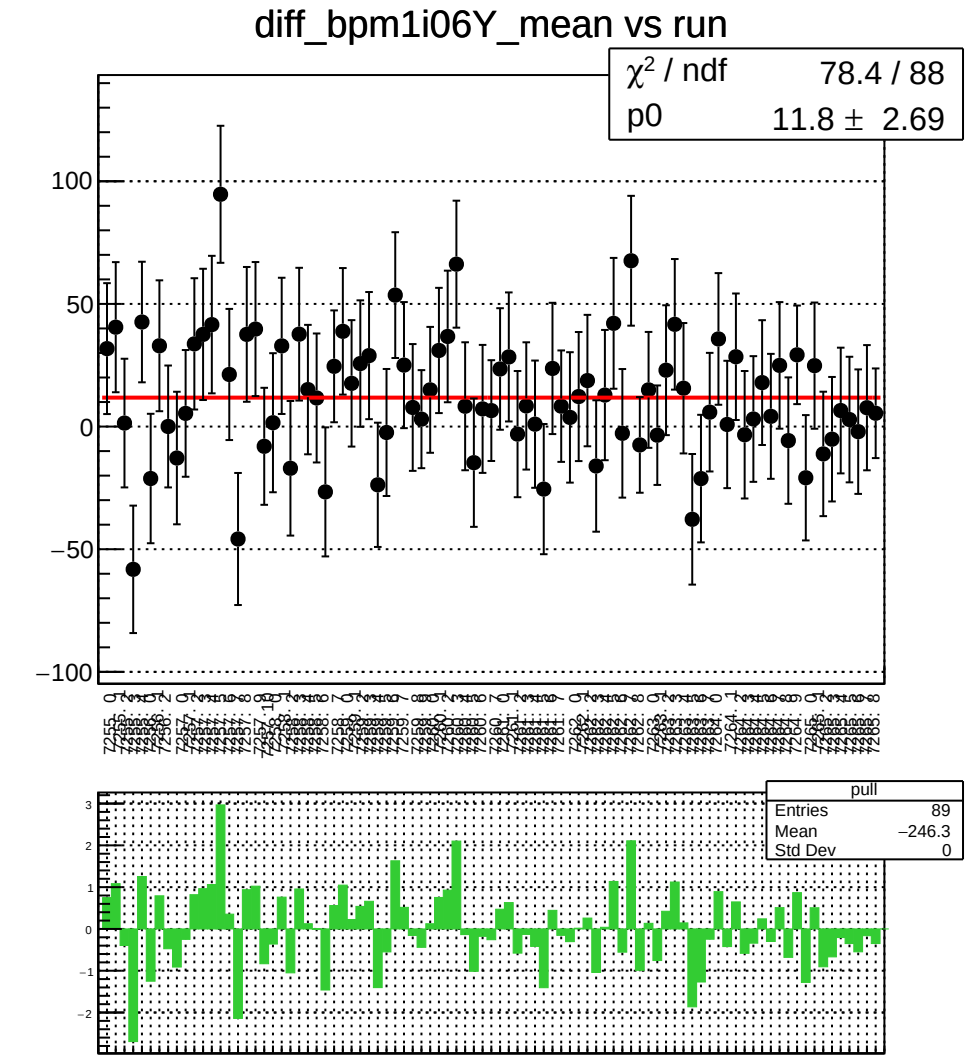

pull1D
Entries 89
Mean −0.002132
Std Dev 0.9615

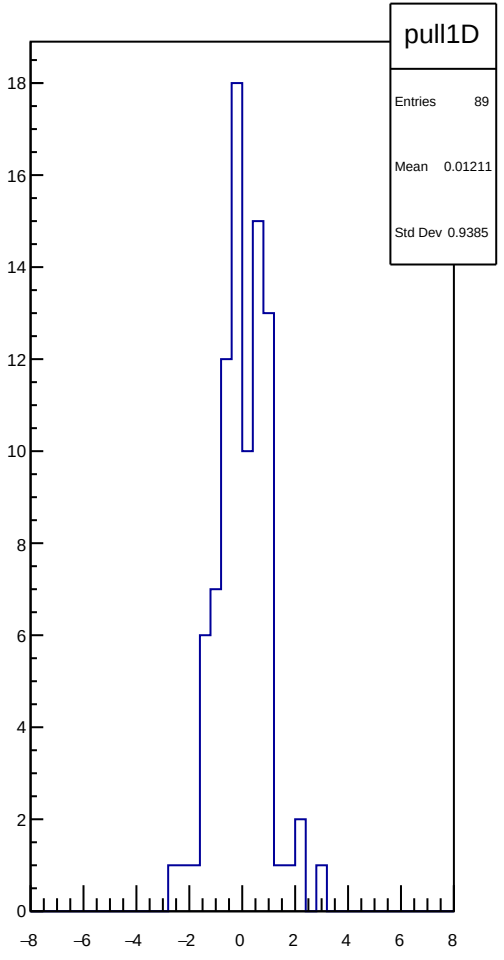

diff_bpm1i04Y_rms vs run
χ² / ndf 864.4 / 88
p0 763.4 ± 0.5865
800
780
760
740
720

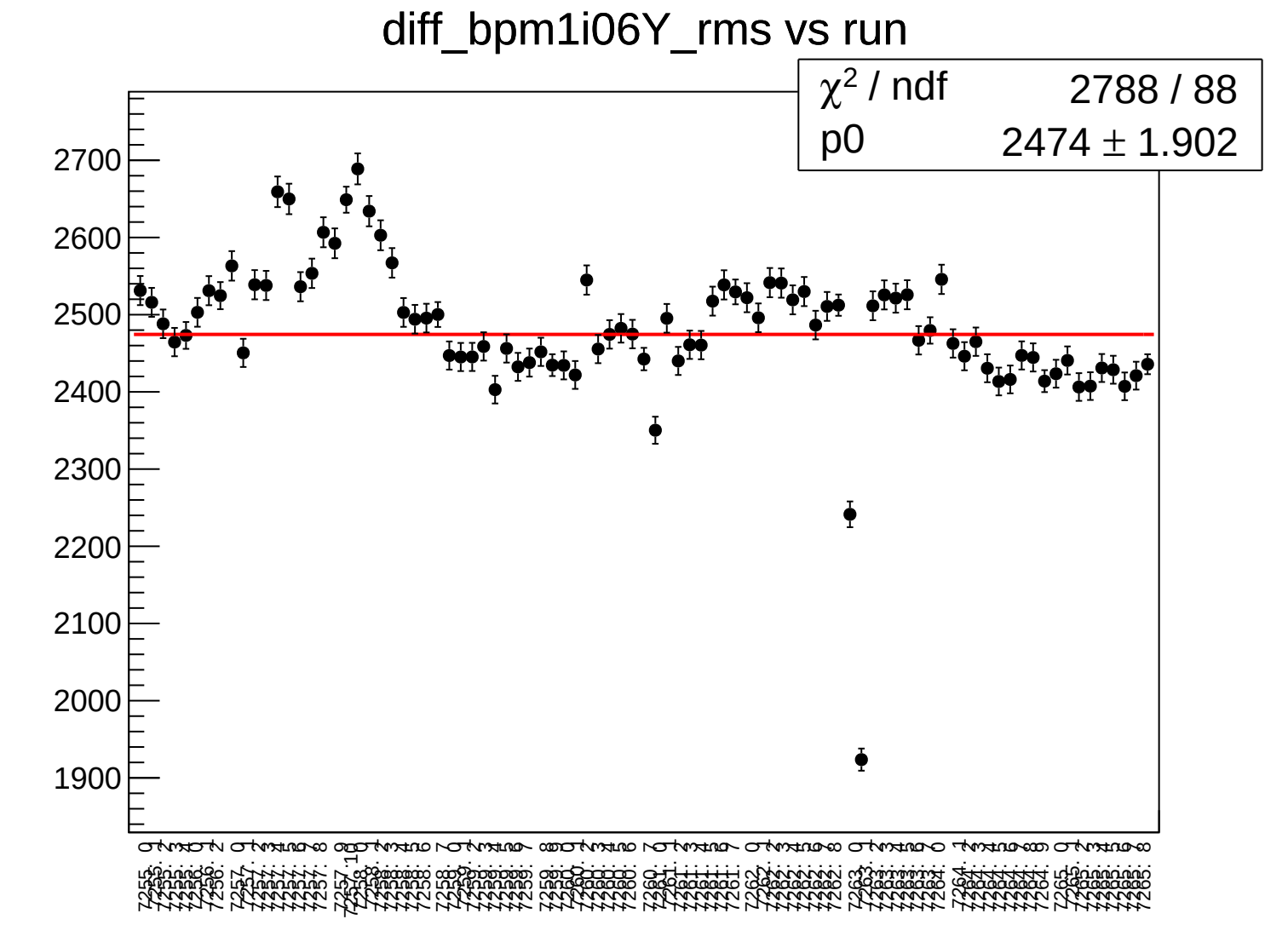

diff_bpm1i06X_mean vs run
χ^2 / ndf 76.48 / 88
p0 14.99 ± 2.132
pull
Entries 89
Mean −726.2
Std Dev 0

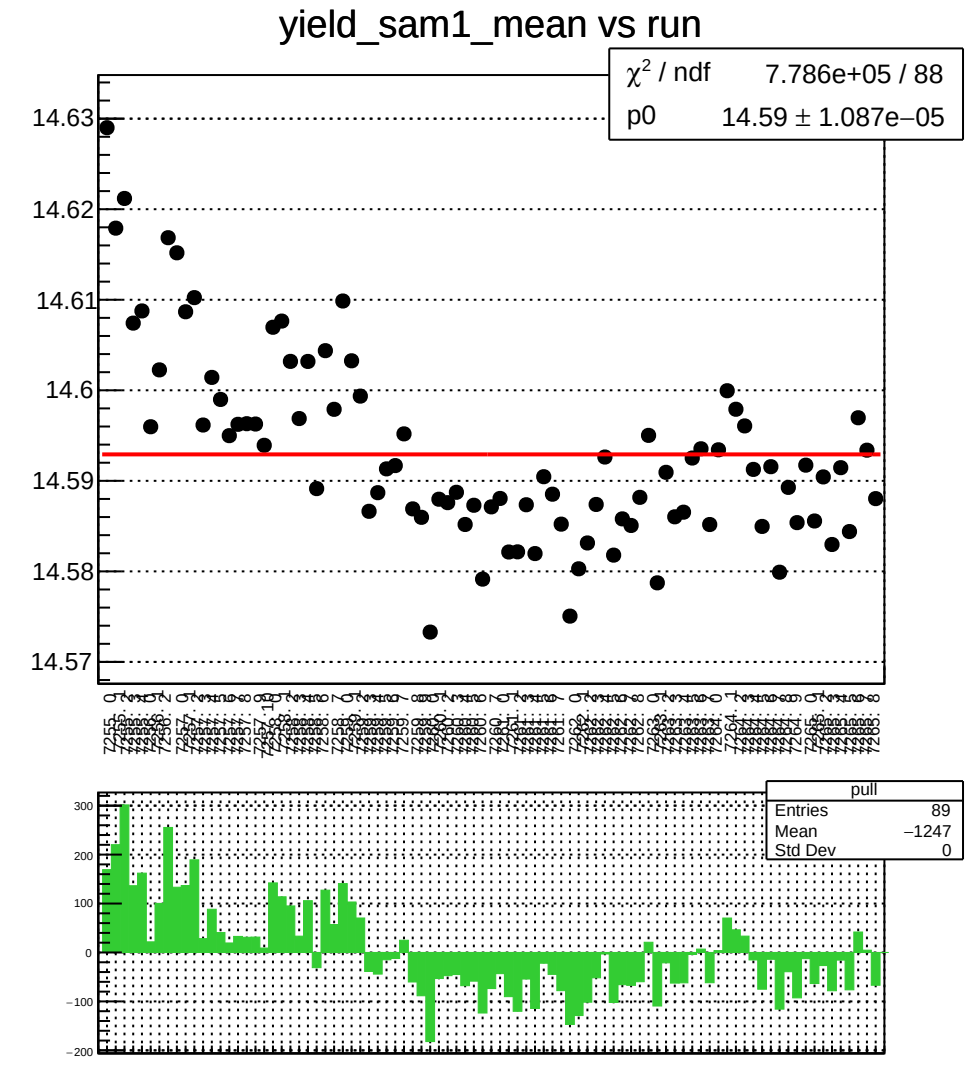

pull1D
Entries 89
Mean 0.008291
Std Dev 0.927

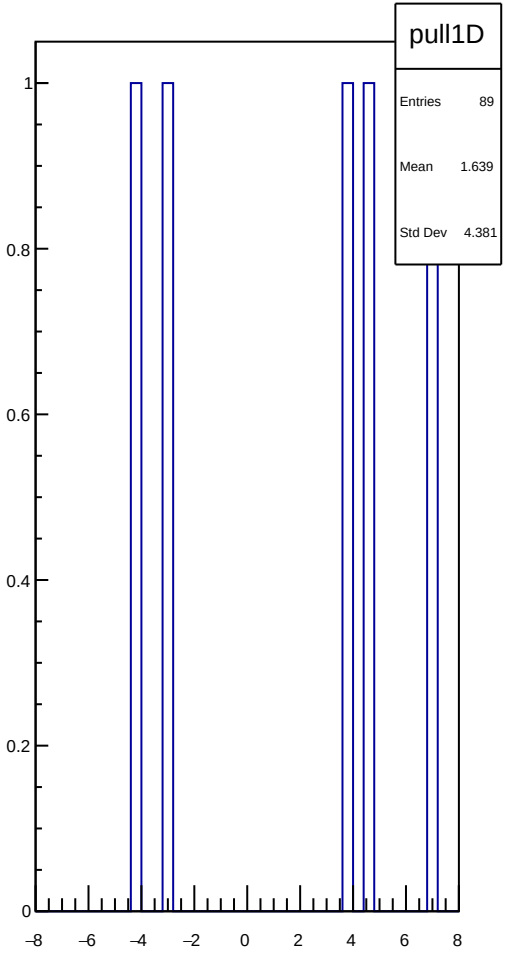

diff_bpm1i06X_rms vs run
χ² / ndf 2061 / 88
p0 1961 ± 1.507
2200
2150
2100
2050
2000
1950
1900
1850
1800

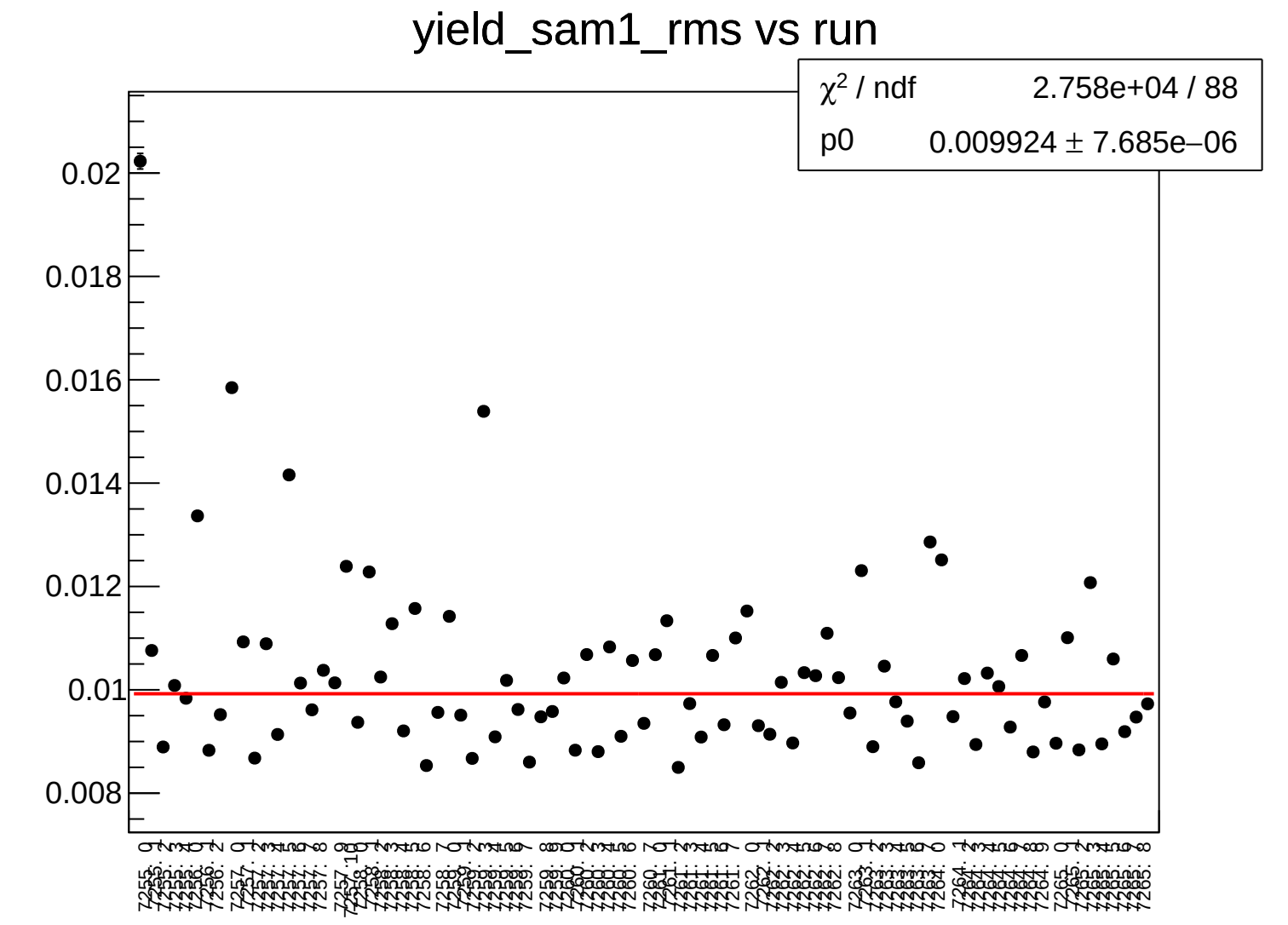

diff_bpm1i06Y_mean vs run
χ² / ndf 78.4 / 88
p0 11.8 ± 2.69
100
50
0
−50
−100
pull
Entries 89
Mean −246.3
Std Dev 0
3
2
1
0
−1
−2

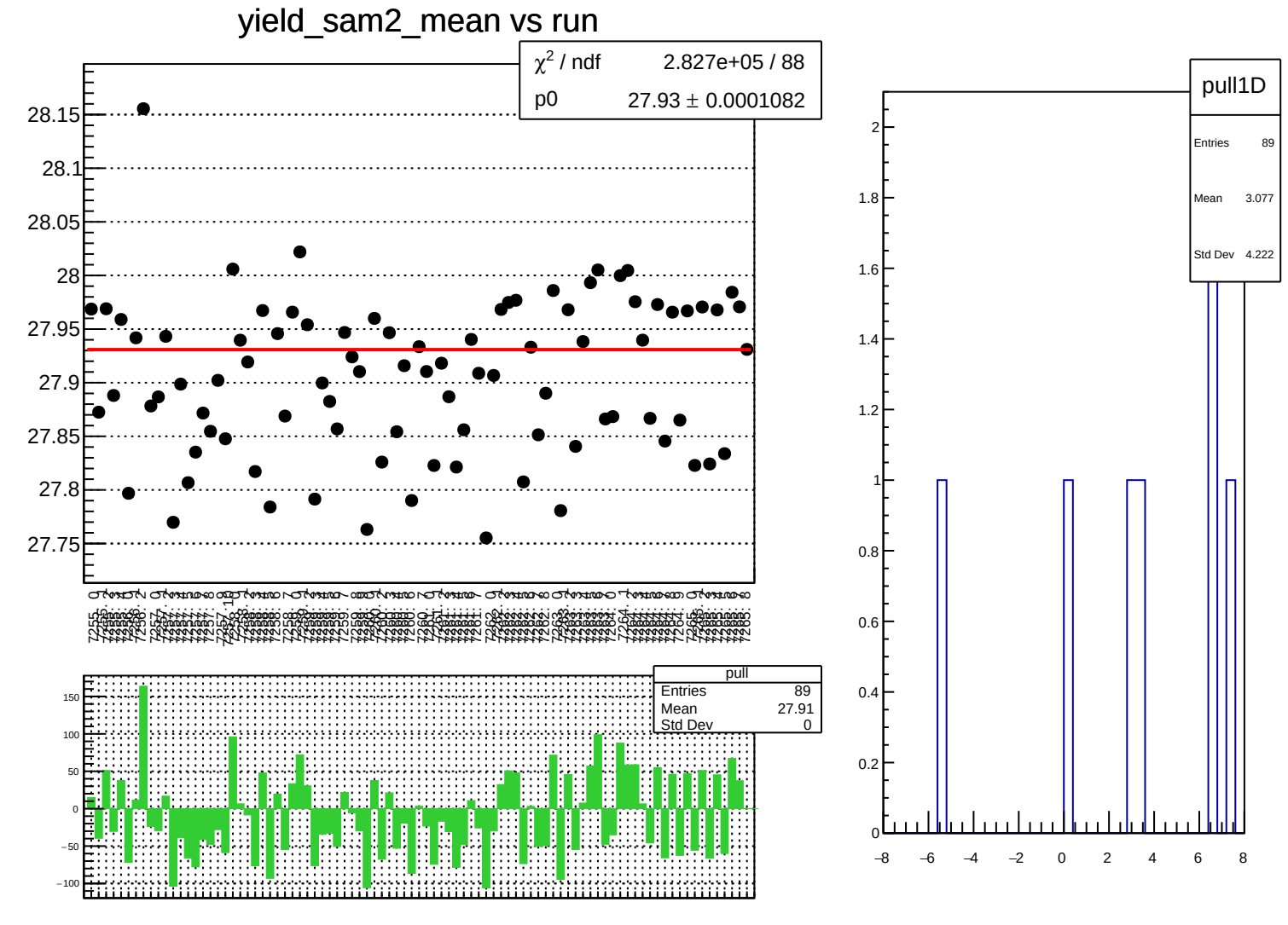

pull1D
Entries 89
Mean 0.01211
Std Dev 0.9385
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

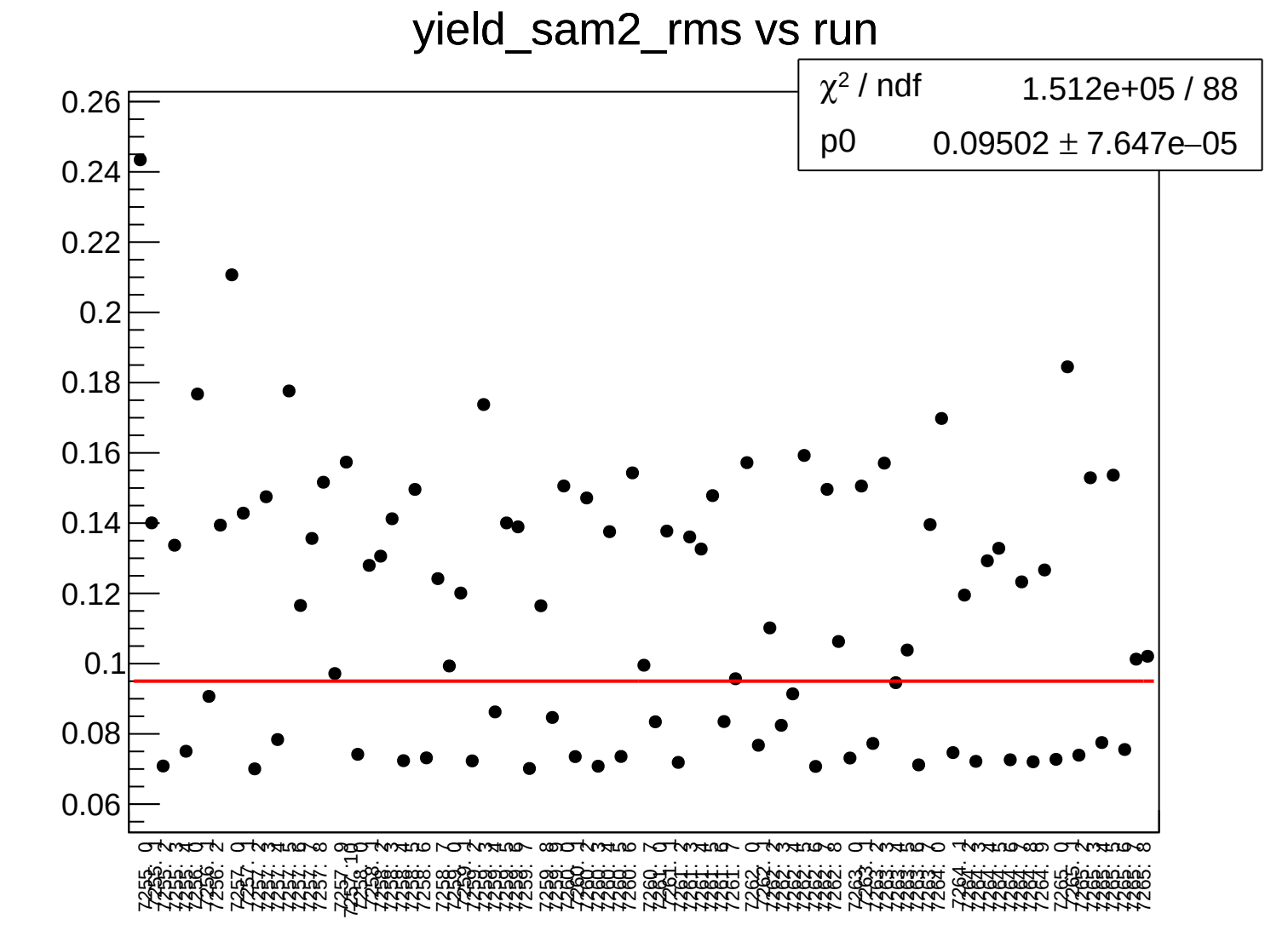

diff_bpm1i06Y_rms vs run
χ² / ndf 2788 / 88
p0 2474 ± 1.902
2700
2600
2500
2400
2300
2200
2100
2000
1900

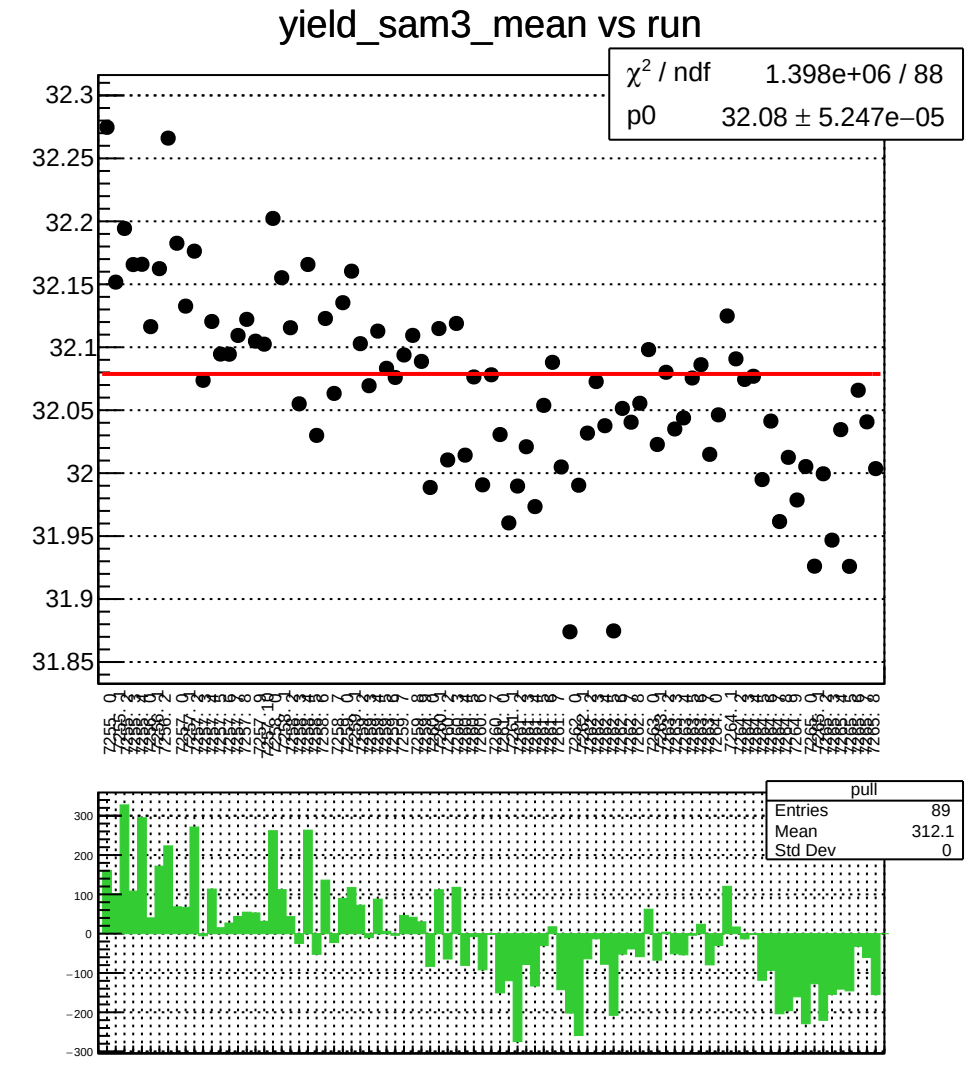

yield_sam1_mean vs run
χ² / ndf 7.786e+05 / 88
p0 14.59 ± 1.087e−05
14.63
14.62
14.61
14.6
14.59
14.58
14.57
pull
Entries 89
Mean −1247
Std Dev 0
300
200
100
0
−100
−200

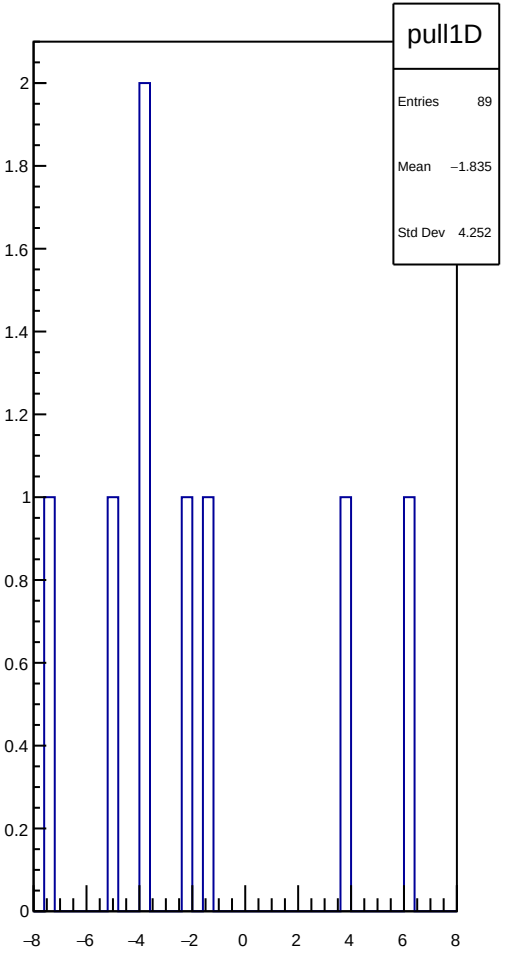

pull1D
Entries 89
Mean 1.639
Std Dev 4.381
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

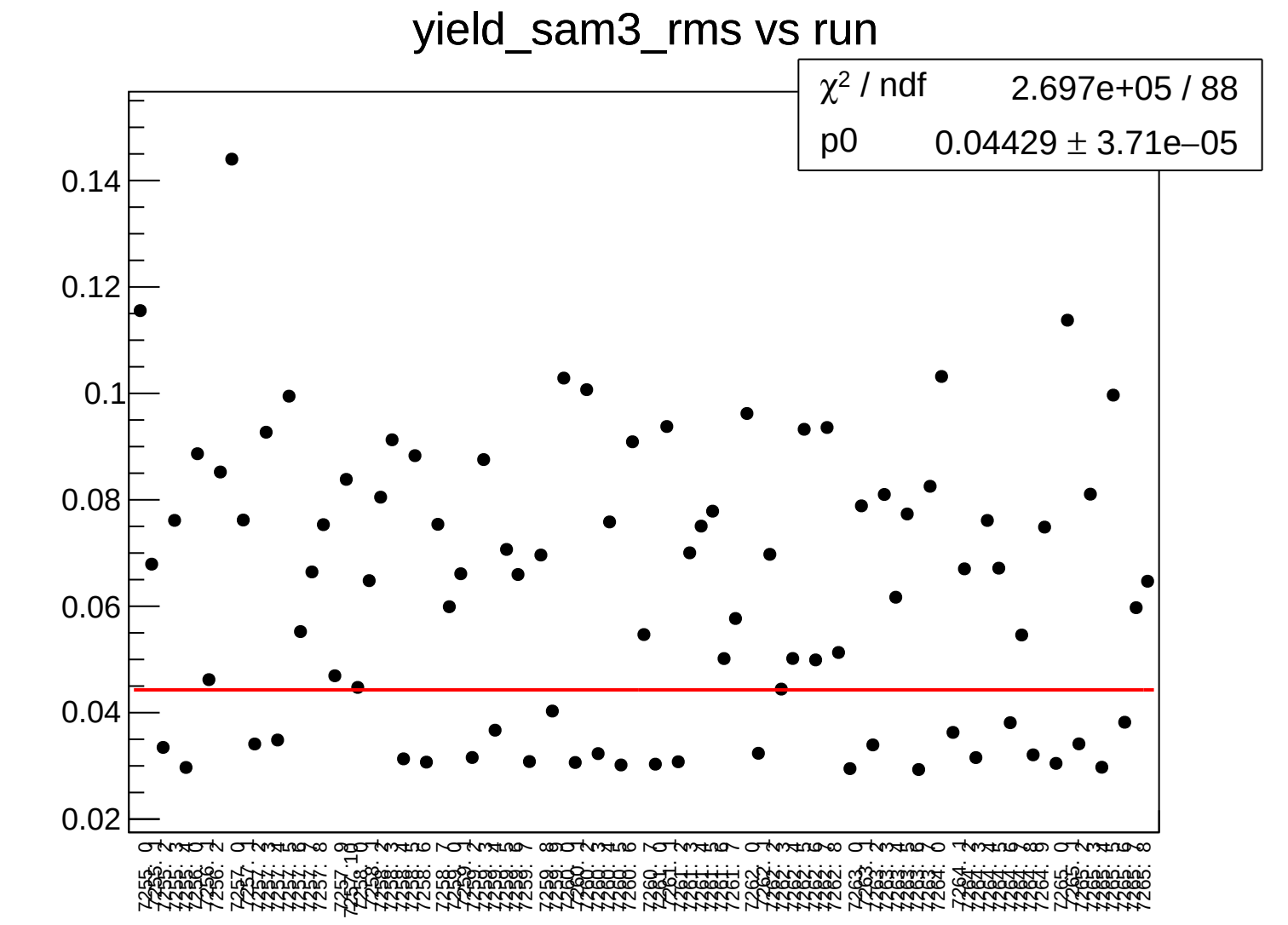

yield_sam1_rms vs run
χ² / ndf 2.758e+04 / 88
p0 0.009924 ± 7.685e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

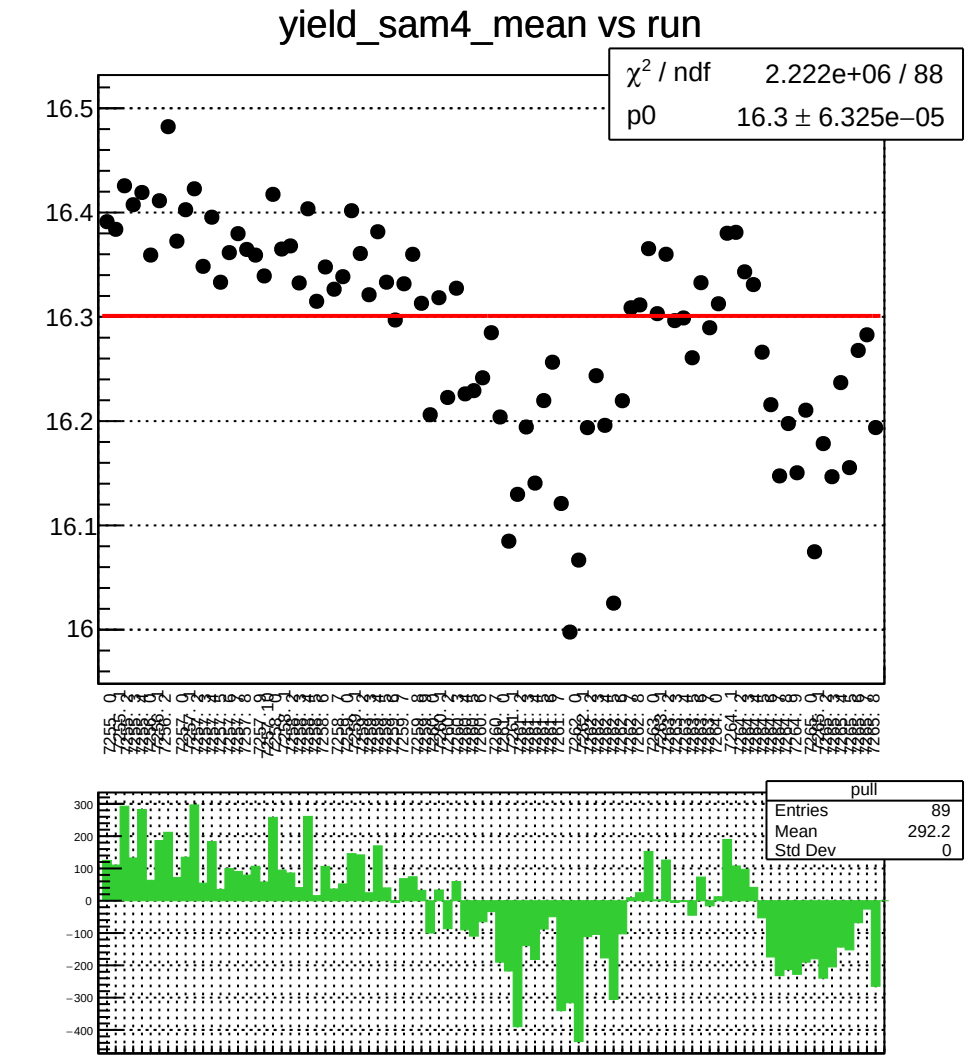

yield_sam2_mean vs run
χ² / ndf 2.827e+05 / 88
p0 27.93 ± 0.0001082
28.15
28.1
28.05
28
27.95
27.9
27.85
27.8
27.75
pull
Entries 89
Mean 27.91
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 89
Mean 3.077
Std Dev 4.222
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

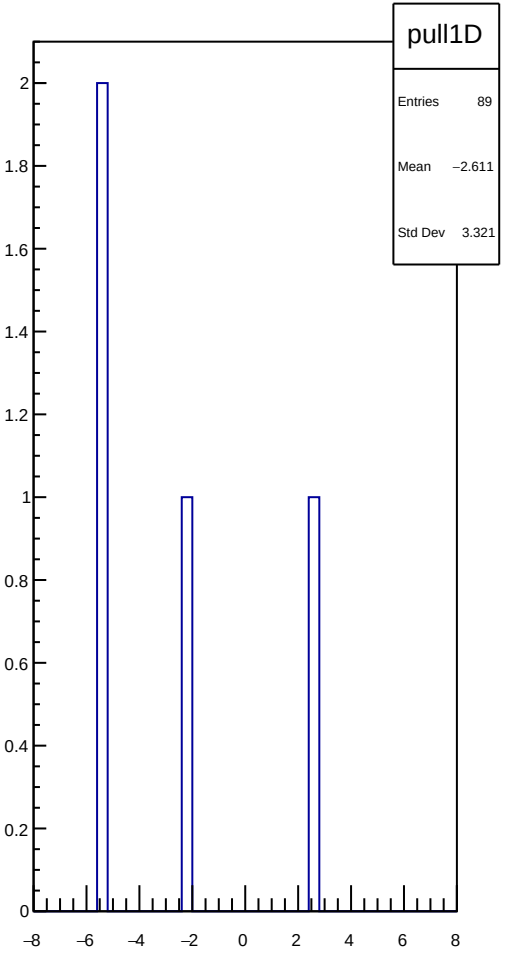

yield_sam2_rms vs run
χ² / ndf 1.512e+05 / 88
p0 0.09502 ± 7.647e−05
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

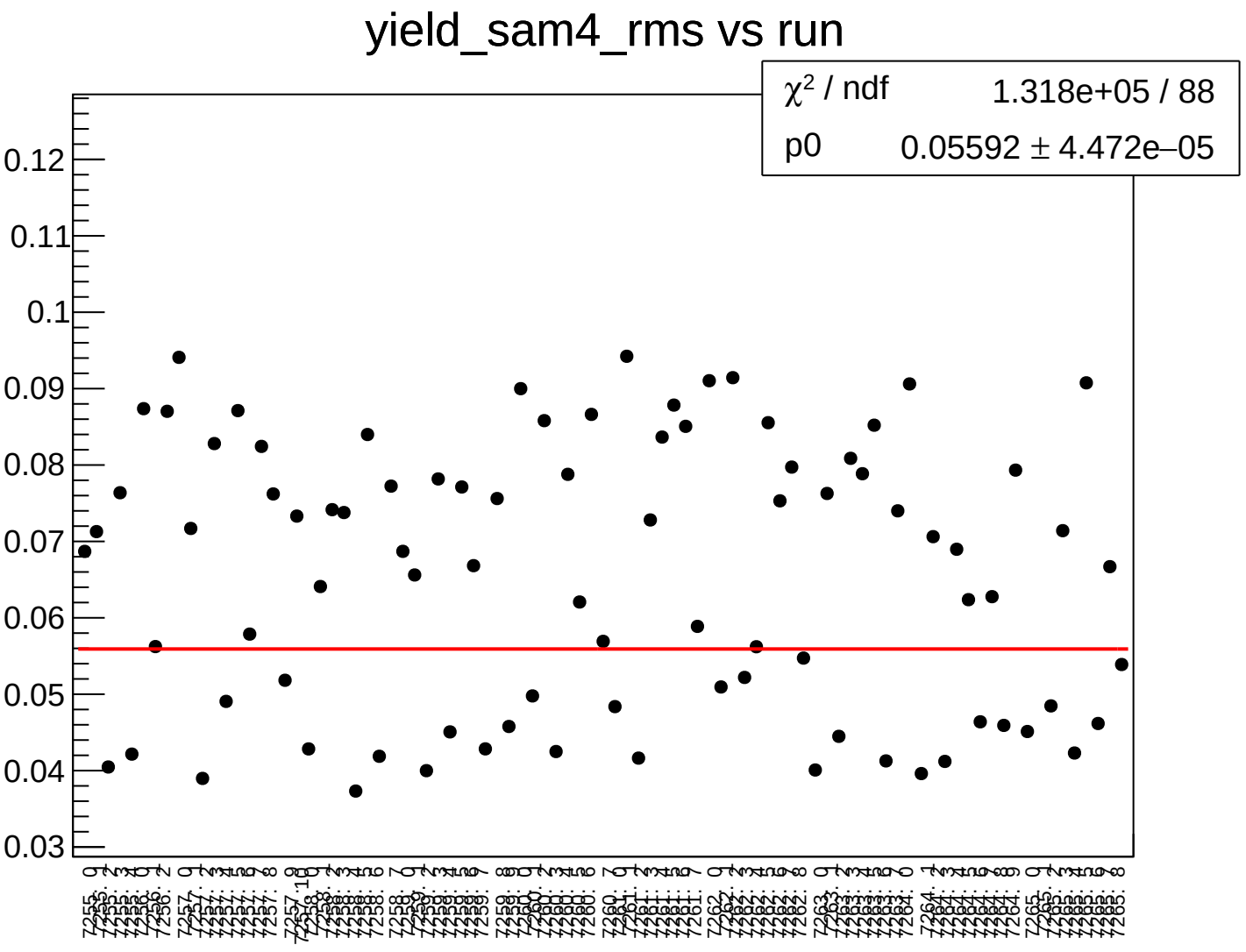

yield_sam3_mean vs run
χ² / ndf 1.398e+06 / 88
p0 32.08 ± 5.247e−05
32.3
32.25
32.2
32.15
32.1
32.05
32
31.95
31.9
31.85
pull
Entries 89
Mean 312.1
Std Dev 0
300
200
100
0
−100
−200
−300

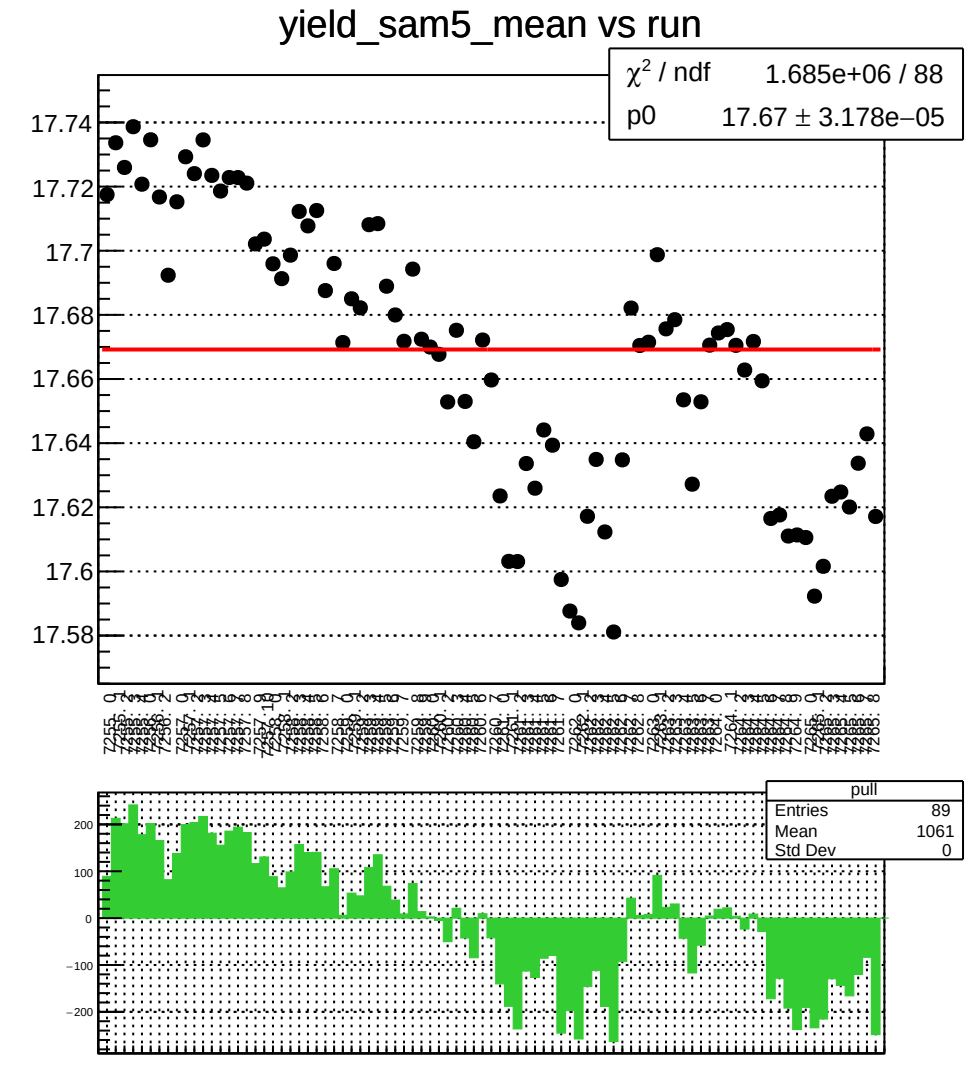

pull1D
Entries 89
Mean −1.835
Std Dev 4.252
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

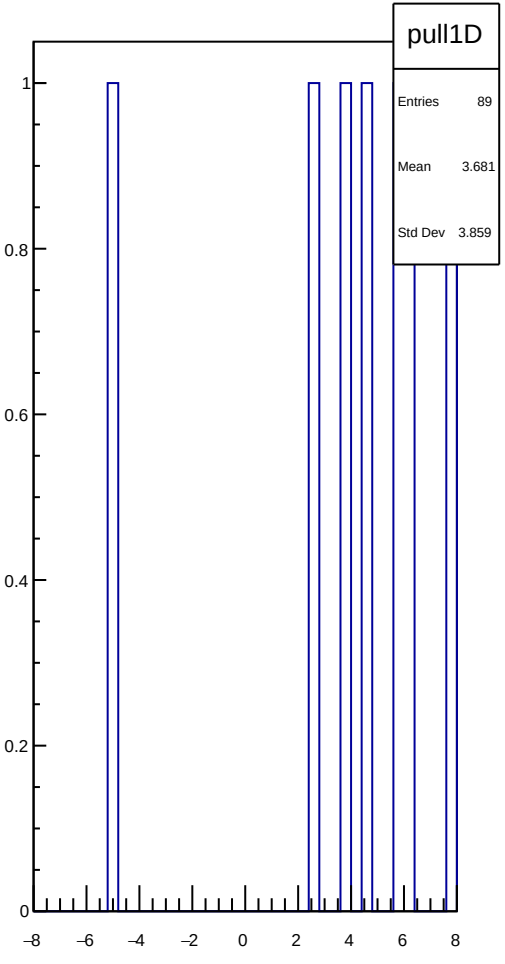

yield_sam3_rms vs run
χ² / ndf 2.697e+05 / 88
p0 0.04429 ± 3.71e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

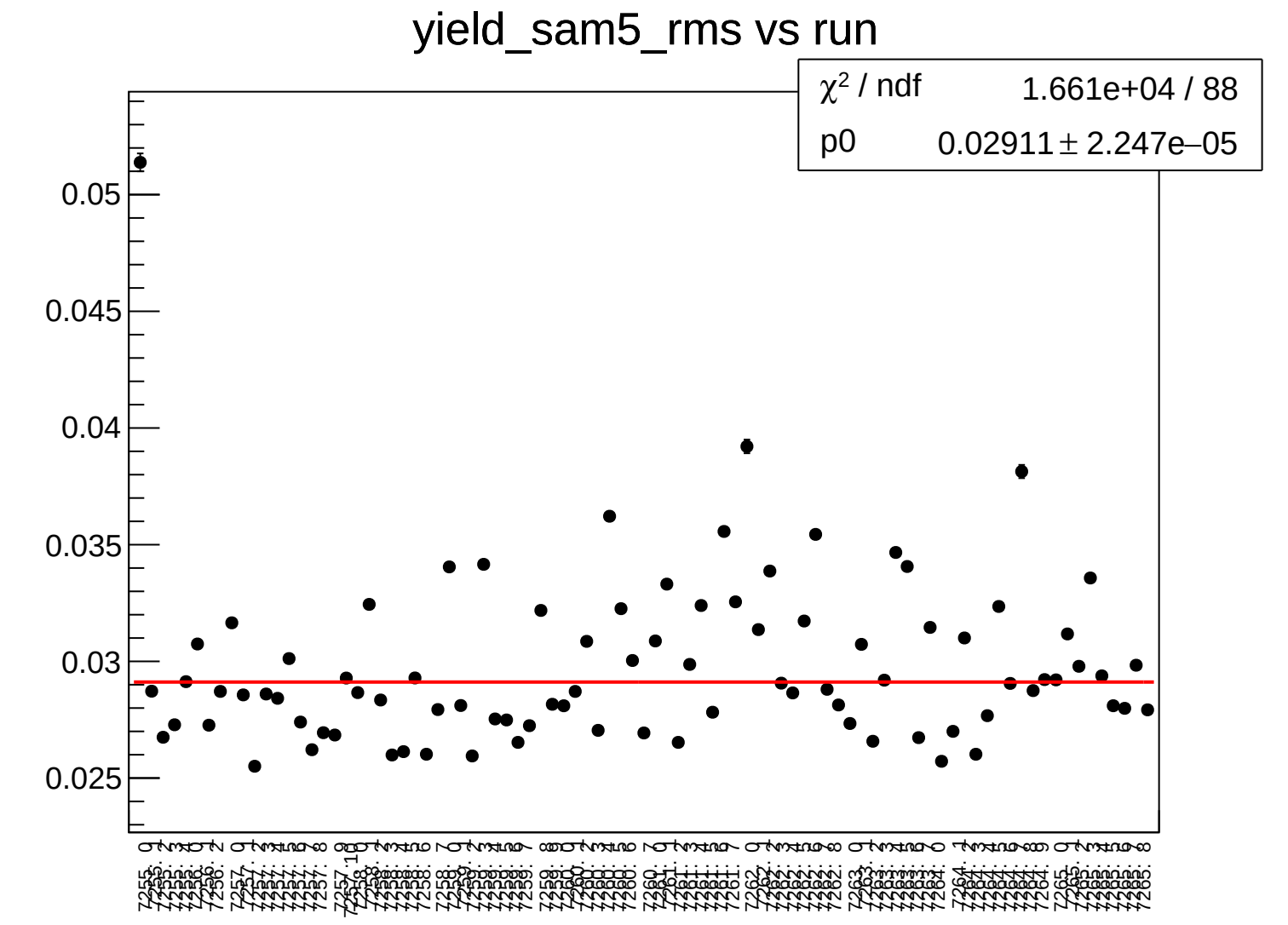

yield_sam4_mean vs run
χ² / ndf 2.222e+06 / 88
p0 16.3 ± 6.325e−05
16.5
16.4
16.3
16.2
16.1
16
pull
Entries 89
Mean 292.2
Std Dev 0
300
200
100
0
−100
−200
−300
−400

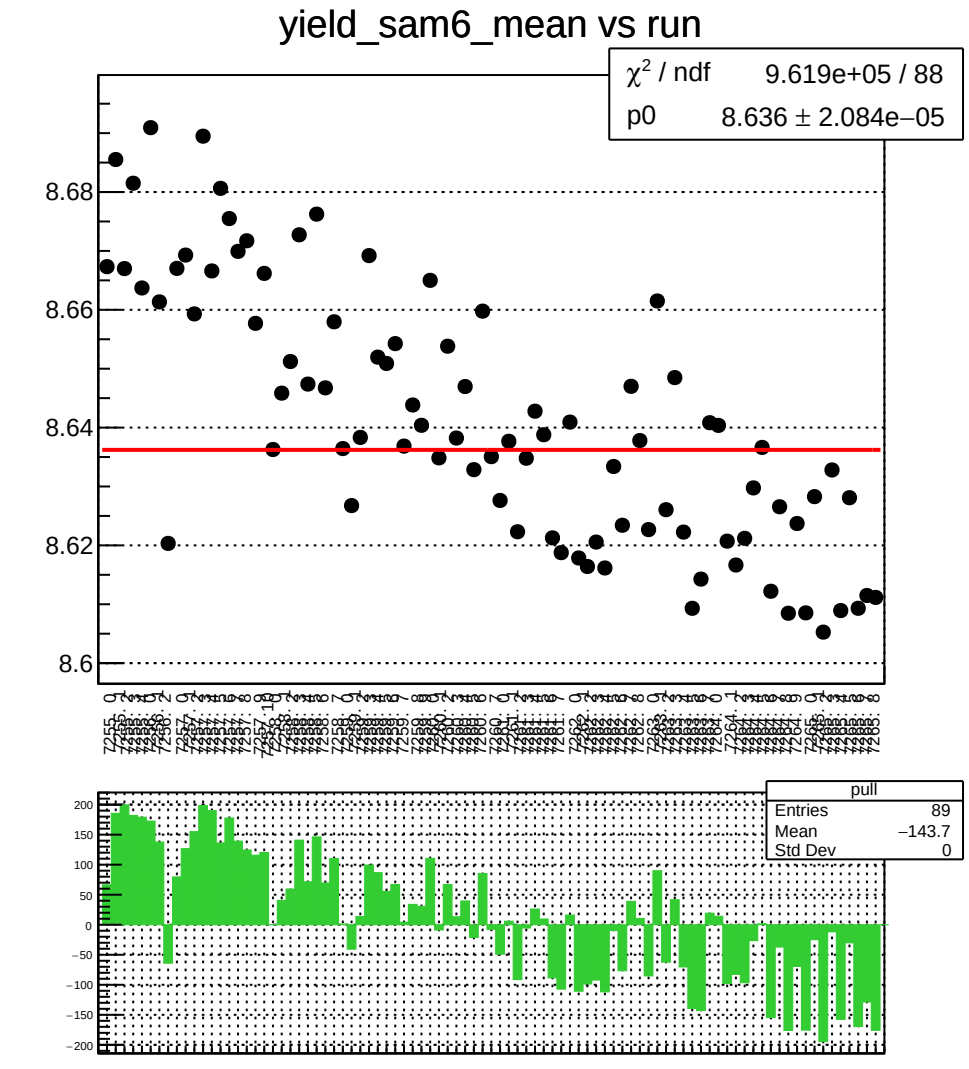

pull1D
Entries 89
Mean −2.611
Std Dev 3.321
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

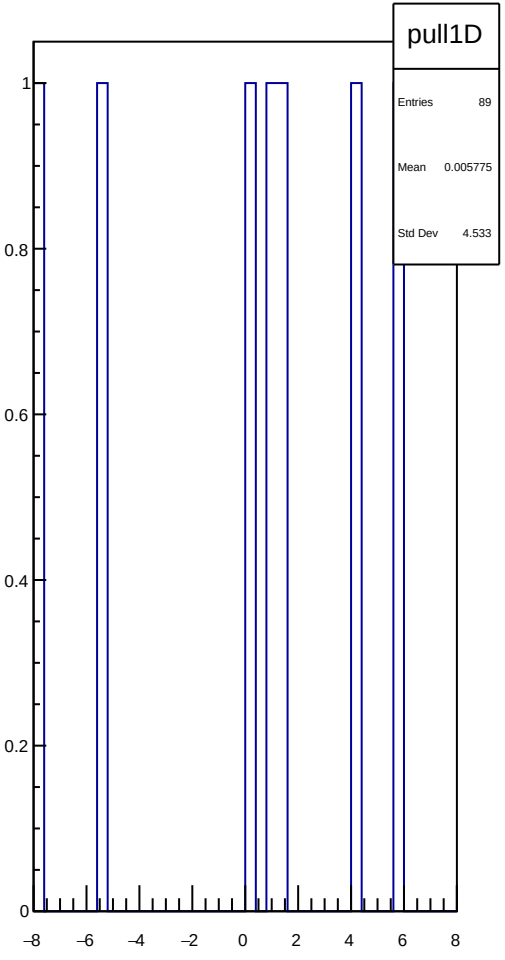

yield_sam4_rms vs run
χ² / ndf 1.318e+05 / 88
p0 0.05592 ± 4.472e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

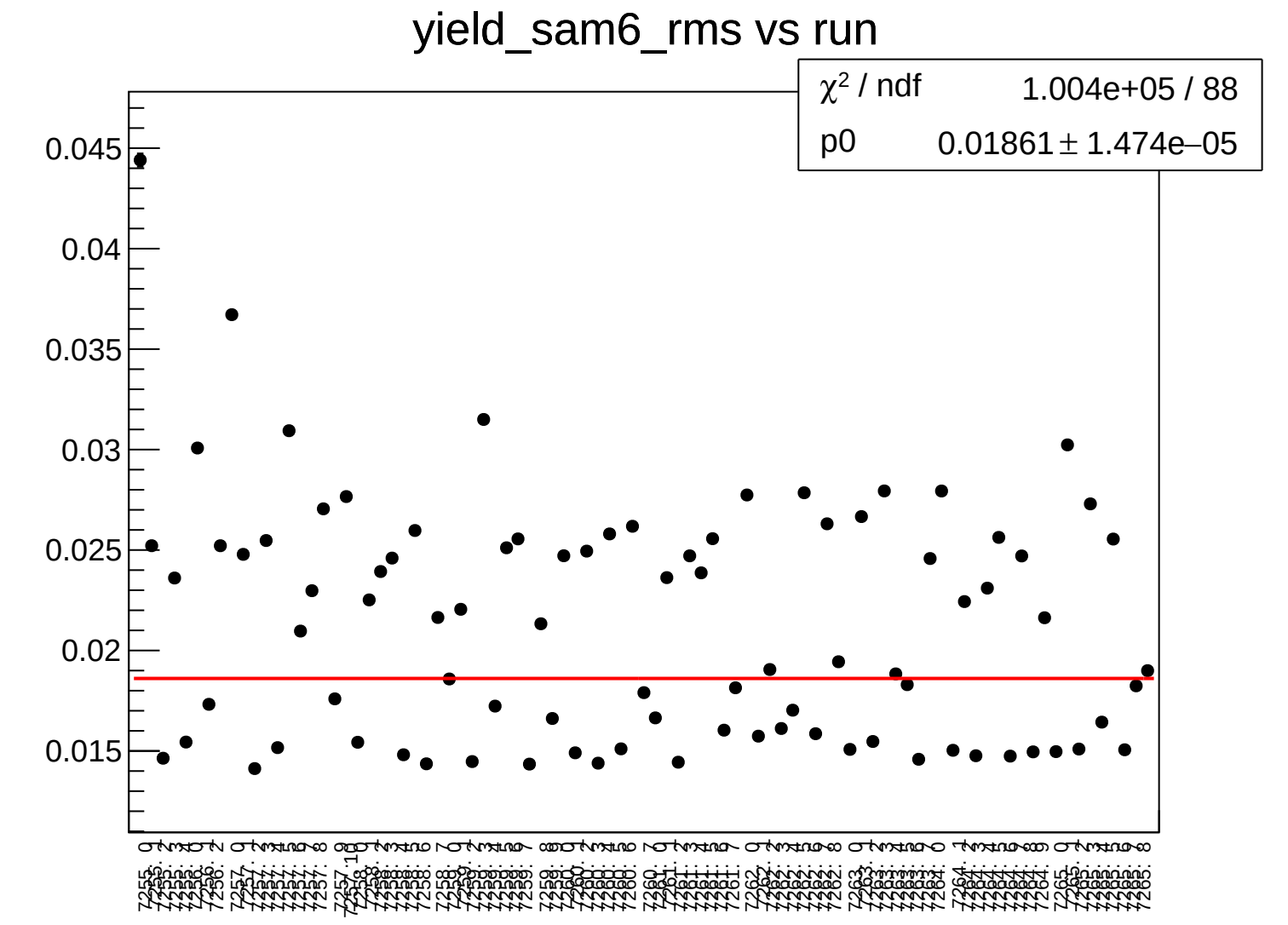

yield_sam5_mean vs run
χ² / ndf 1.685e+06 / 88
p0 17.67 ± 3.178e−05
17.74
17.72
17.7
17.68
17.66
17.64
17.62
17.6
17.58
pull
Entries 89
Mean 1061
Std Dev 0
200
100
0
−100
−200

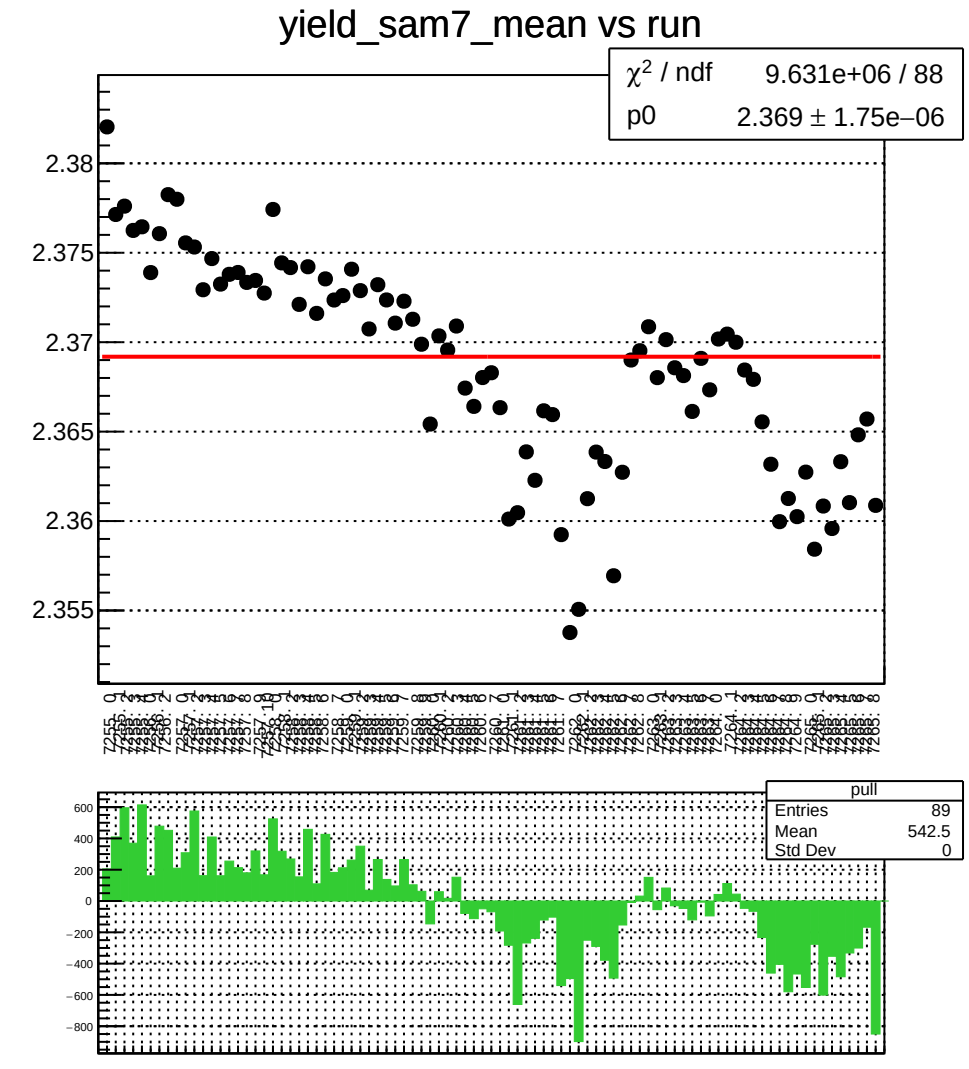

pull1D
Entries 89
Mean 3.681
Std Dev 3.859
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

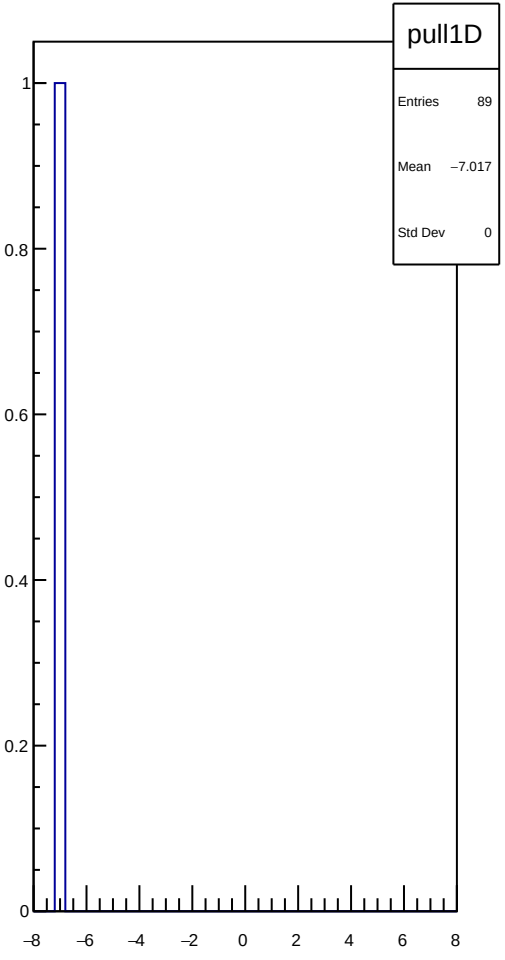

yield_sam5_rms vs run
χ² / ndf 1.661e+04 / 88
p0 0.02911 ± 2.247e–05
0.05
0.045
0.04
0.035
0.03
0.025

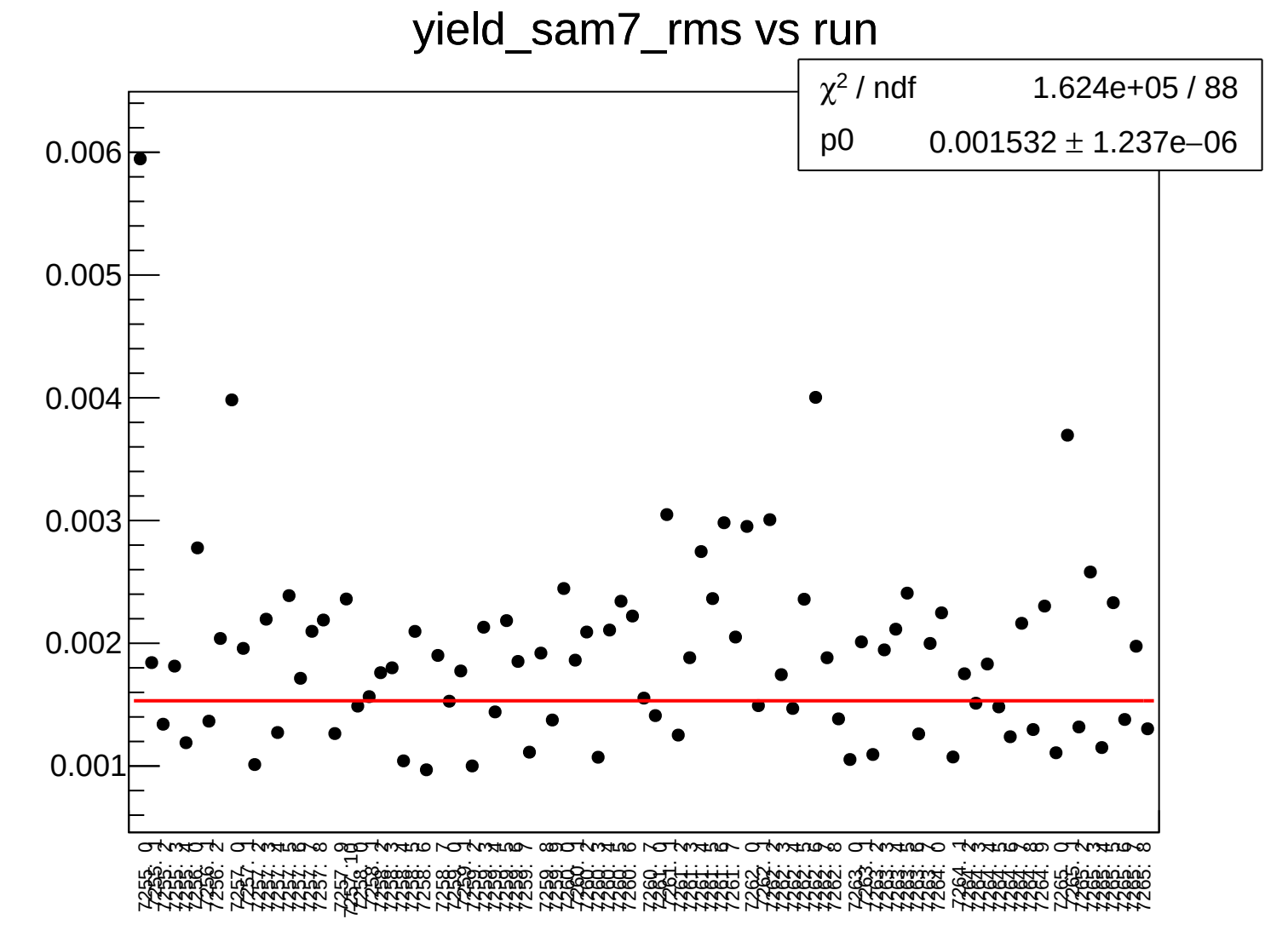

yield_sam6_mean vs run
χ² / ndf 9.619e+05 / 88
p0 8.636 ± 2.084e−05
8.68
8.66
8.64
8.62
8.6
pull
Entries 89
Mean −143.7
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

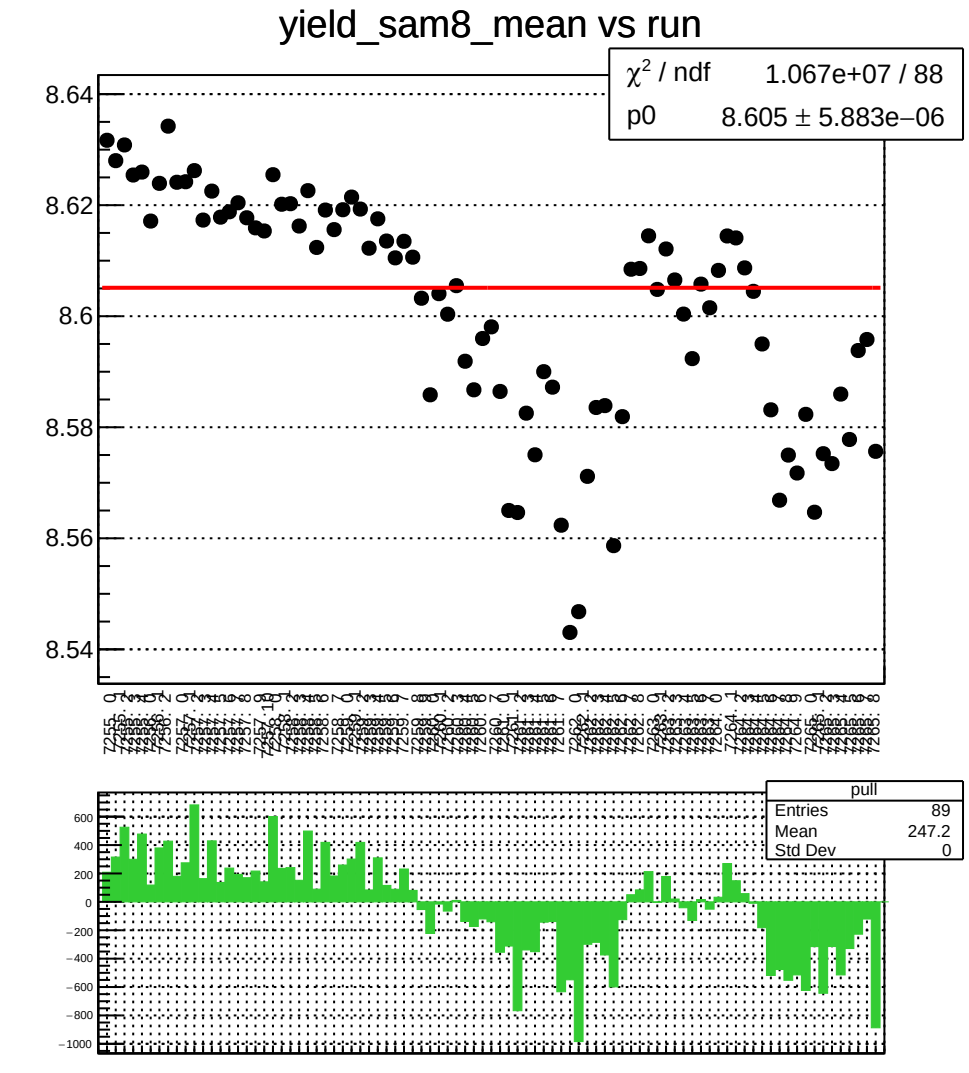

pull1D
Entries 89
Mean 0.005775
Std Dev 4.533
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

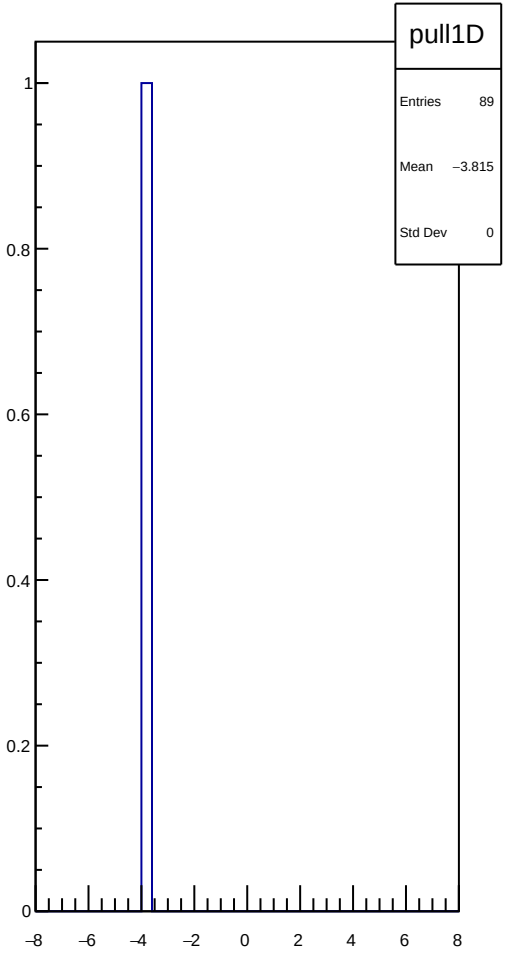

yield_sam6_rms vs run
χ² / ndf 1.004e+05 / 88
p0 0.01861 ± 1.474e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

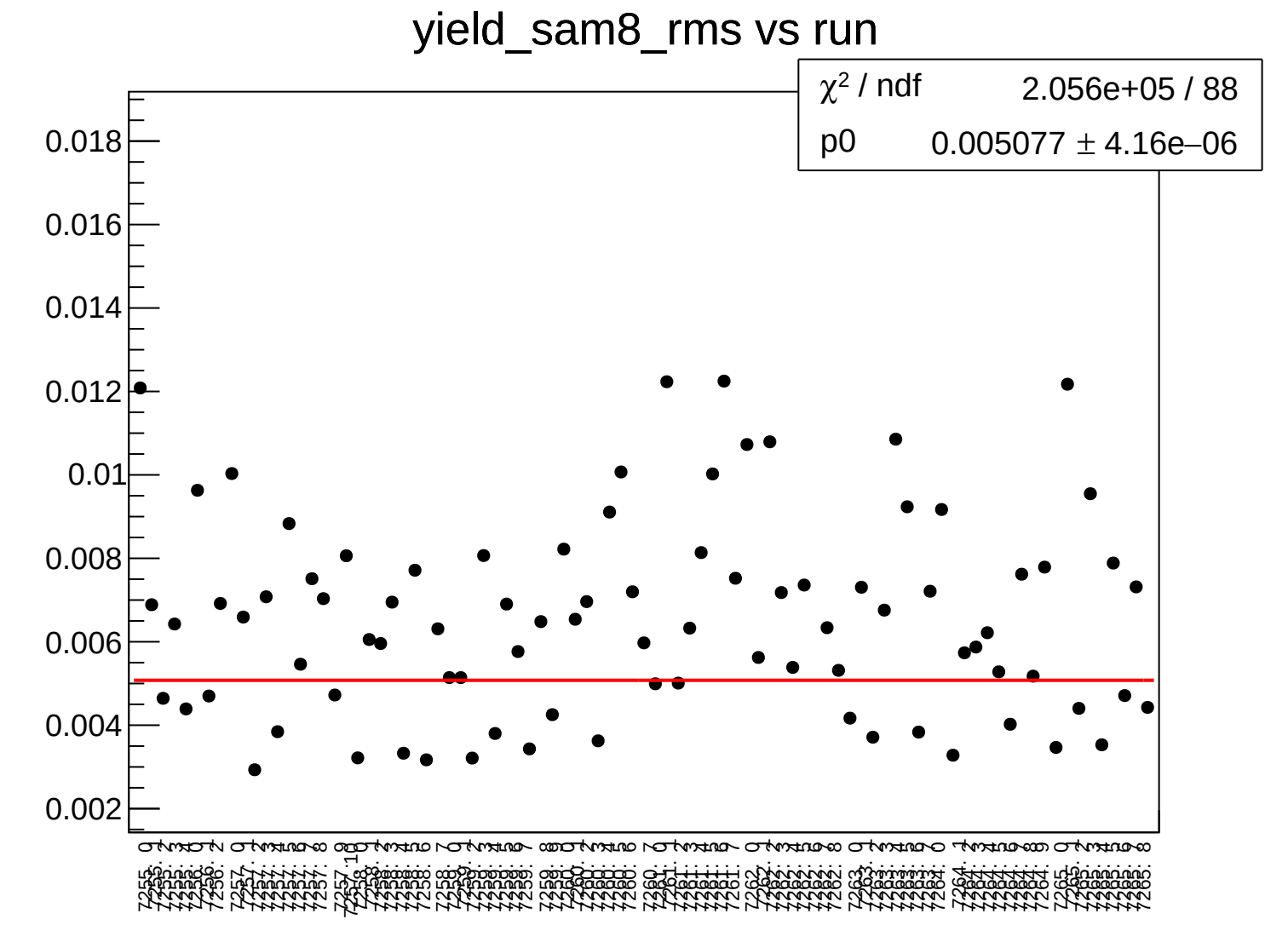

yield_sam7_mean vs run
χ² / ndf 9.631e+06 / 88
p0 2.369 ± 1.75e−06
2.38
2.375
2.37
2.365
2.36
2.355
pull
Entries 89
Mean 542.5
Std Dev 0
600
400
200
0
−200
−400
−600
−800

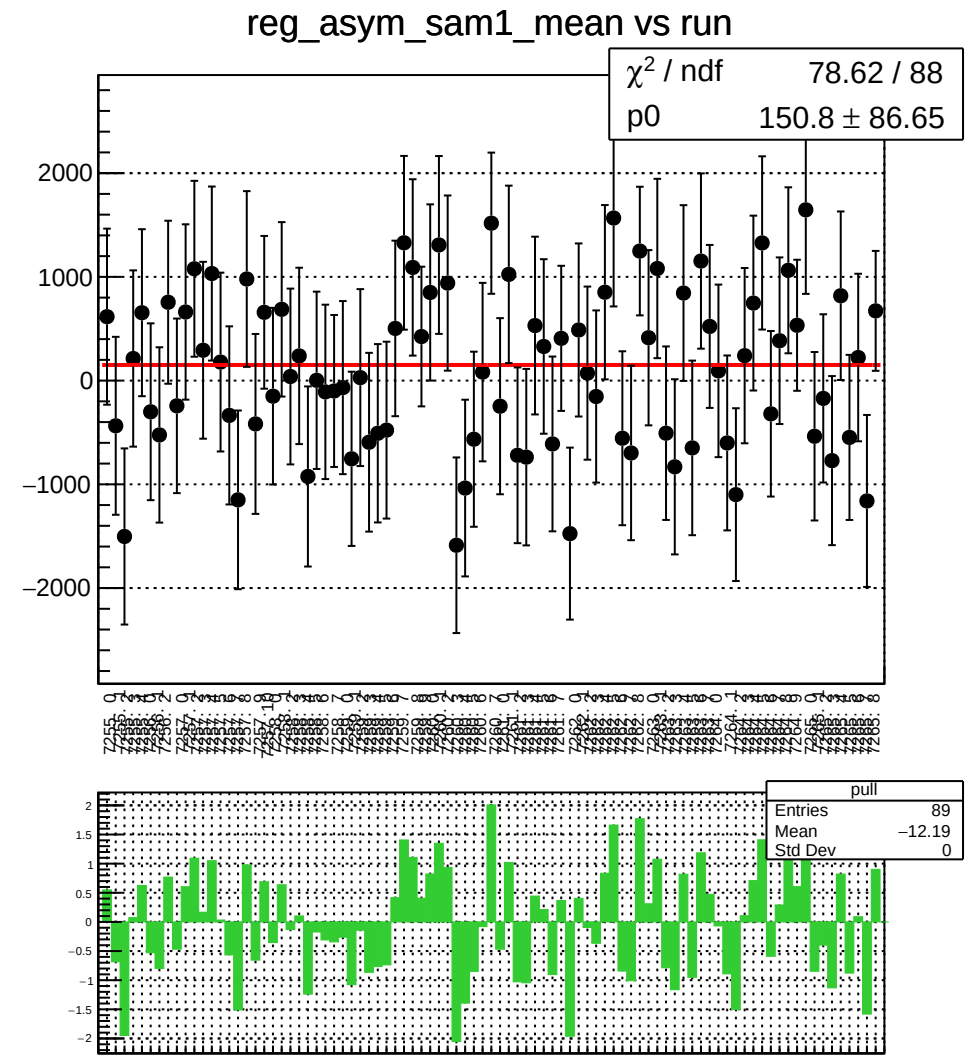

pull1D
Entries 89
Mean −7.017
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

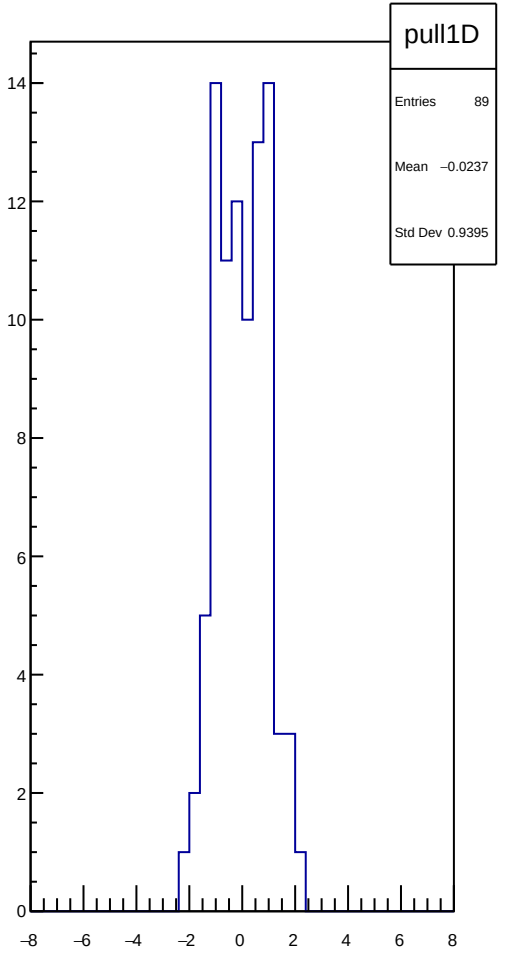

yield_sam7_rms vs run
χ² / ndf 1.624e+05 / 88
p0 0.001532 ± 1.237e−06
0.006
0.005
0.004
0.003
0.002
0.001

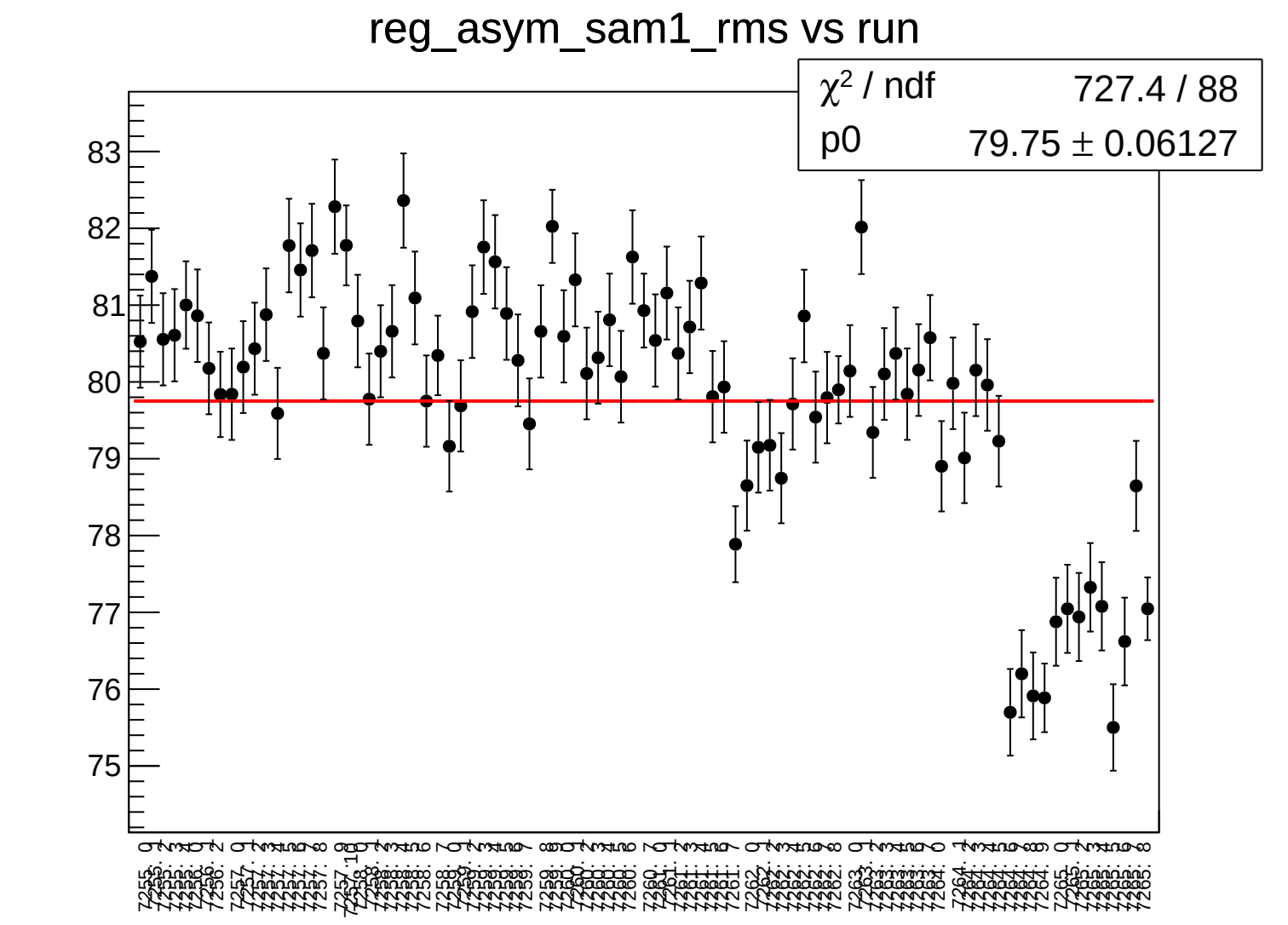

yield_sam8_mean vs run
χ² / ndf 1.067e+07 / 88
p0 8.605 ± 5.883e−06
8.64
8.62
8.6
8.58
8.56
8.54
pull
Entries 89
Mean 247.2
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

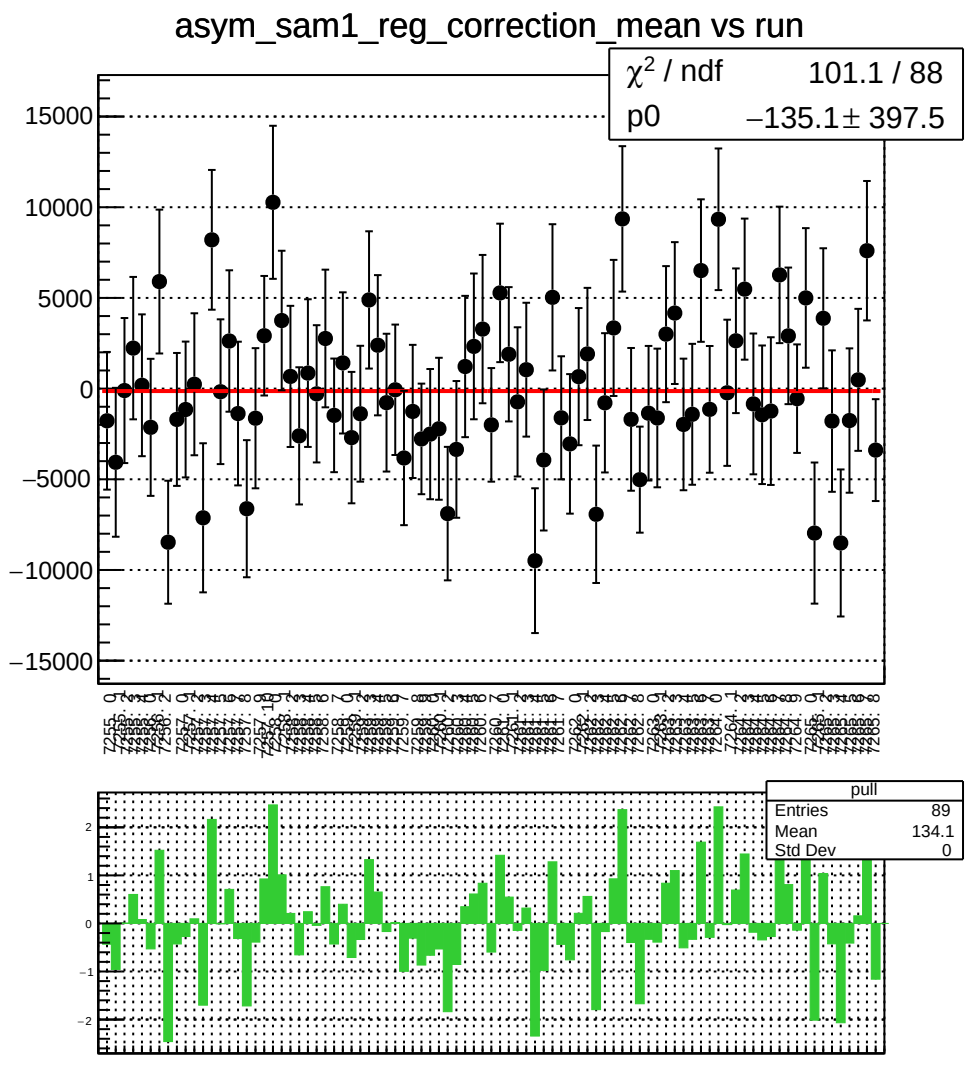

pull1D
Entries 89
Mean −3.815
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

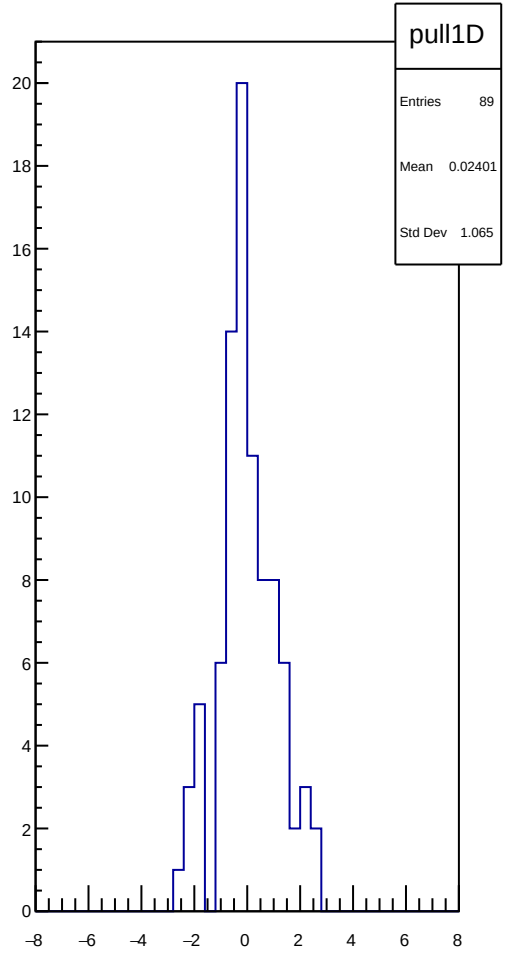

yield_sam8_rms vs run
χ² / ndf 2.056e+05 / 88
p0 0.005077 ± 4.16e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

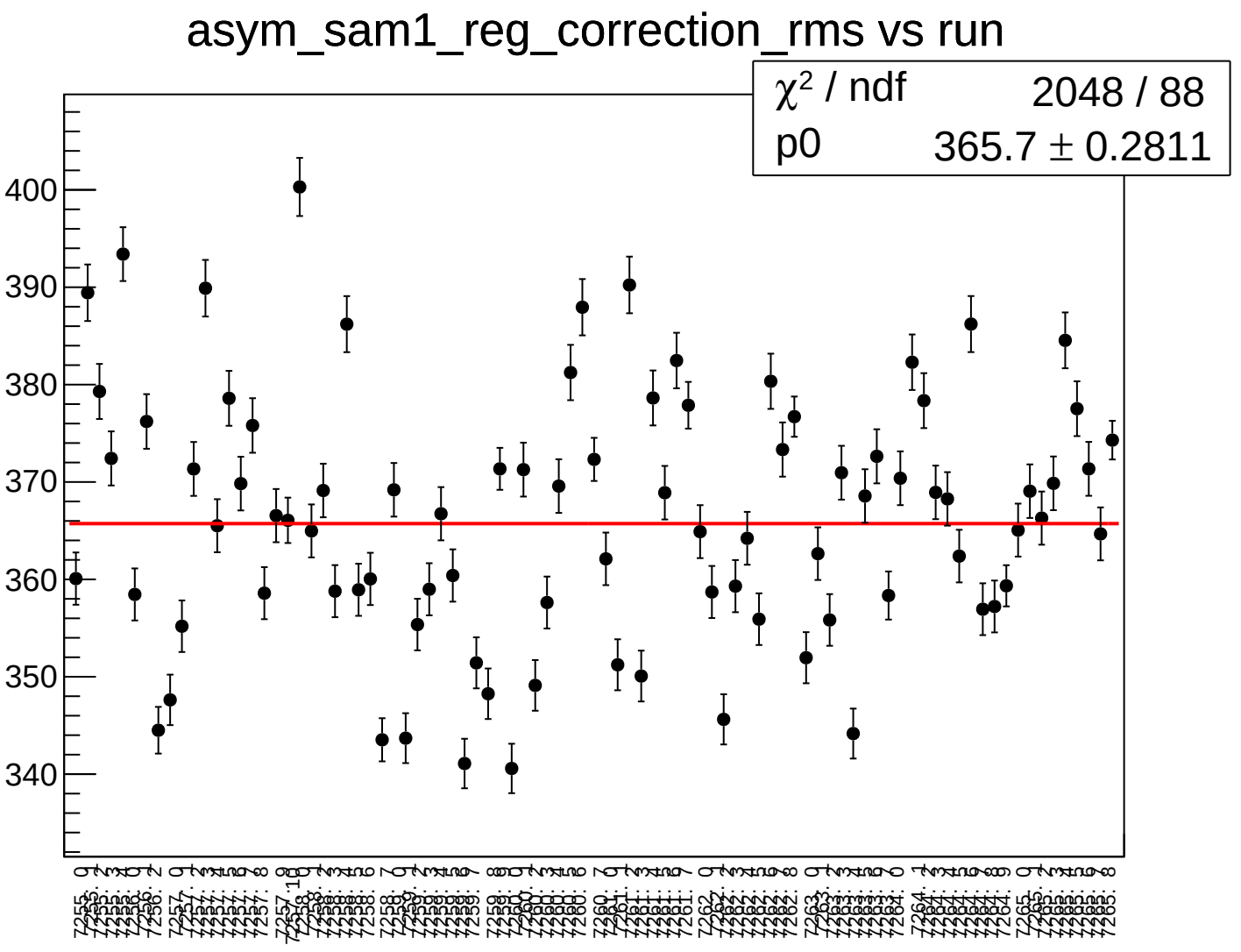

reg_asym_sam1_mean vs run
χ² / ndf 78.62 / 88
p0 150.8 ± 86.65
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −12.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

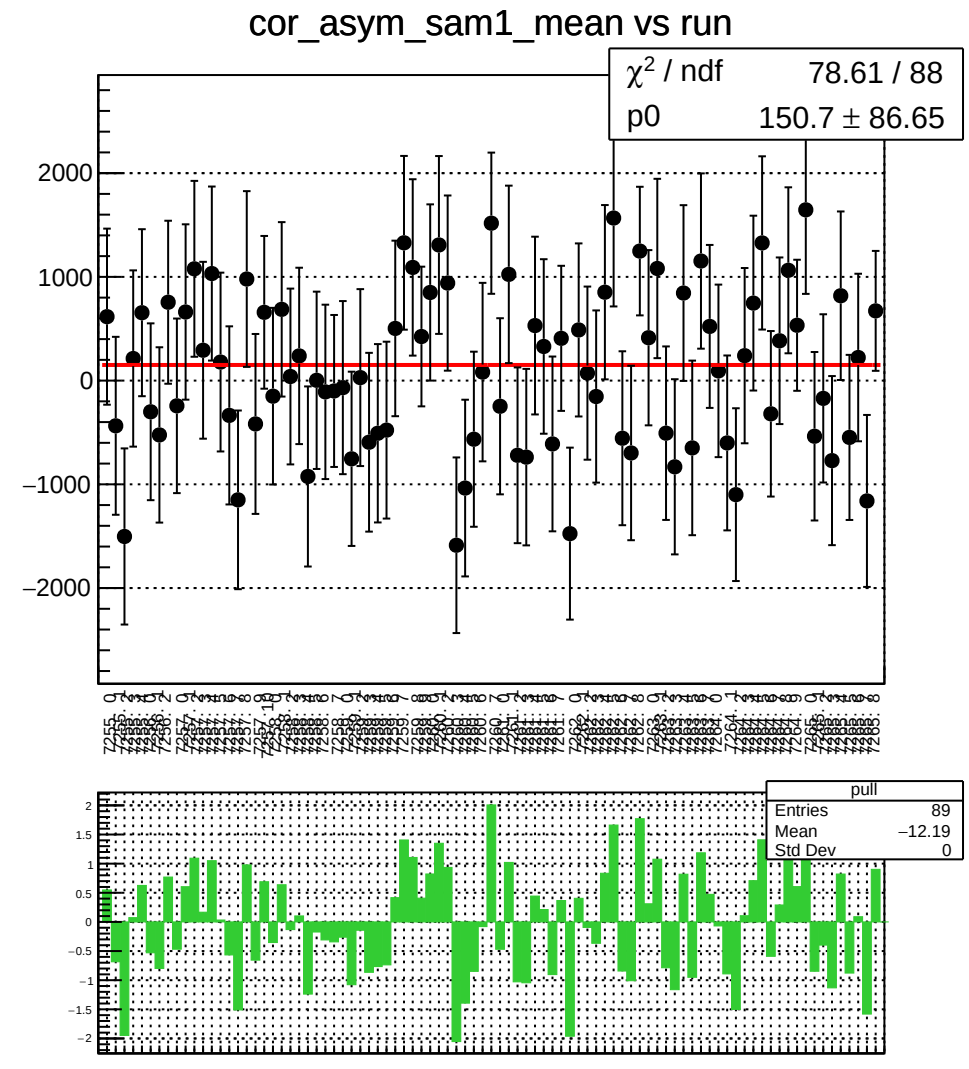

pull1D
Entries 89
Mean −0.0237
Std Dev 0.9395
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

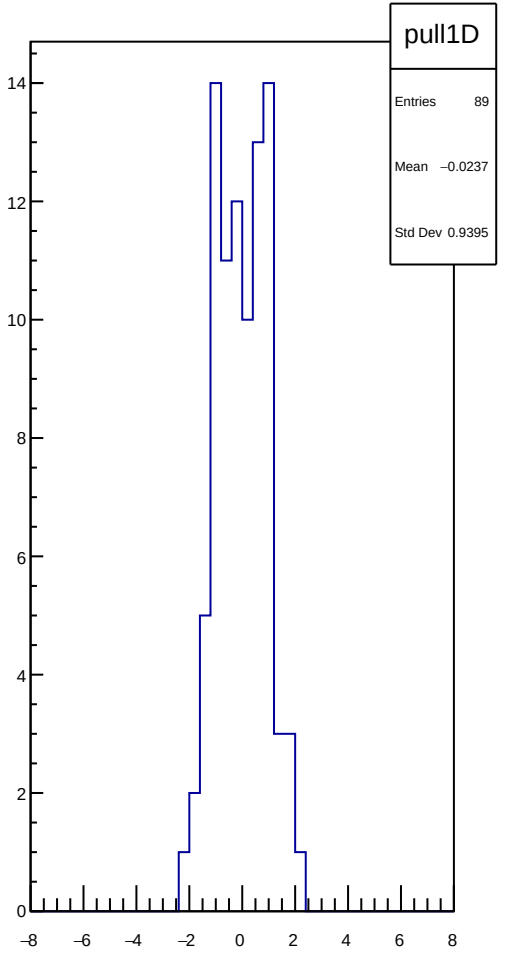

reg_asym_sam1_rms vs run
χ² / ndf 727.4 / 88
p0 79.75 ± 0.06127
83
82
81
80
79
78
77
76
75

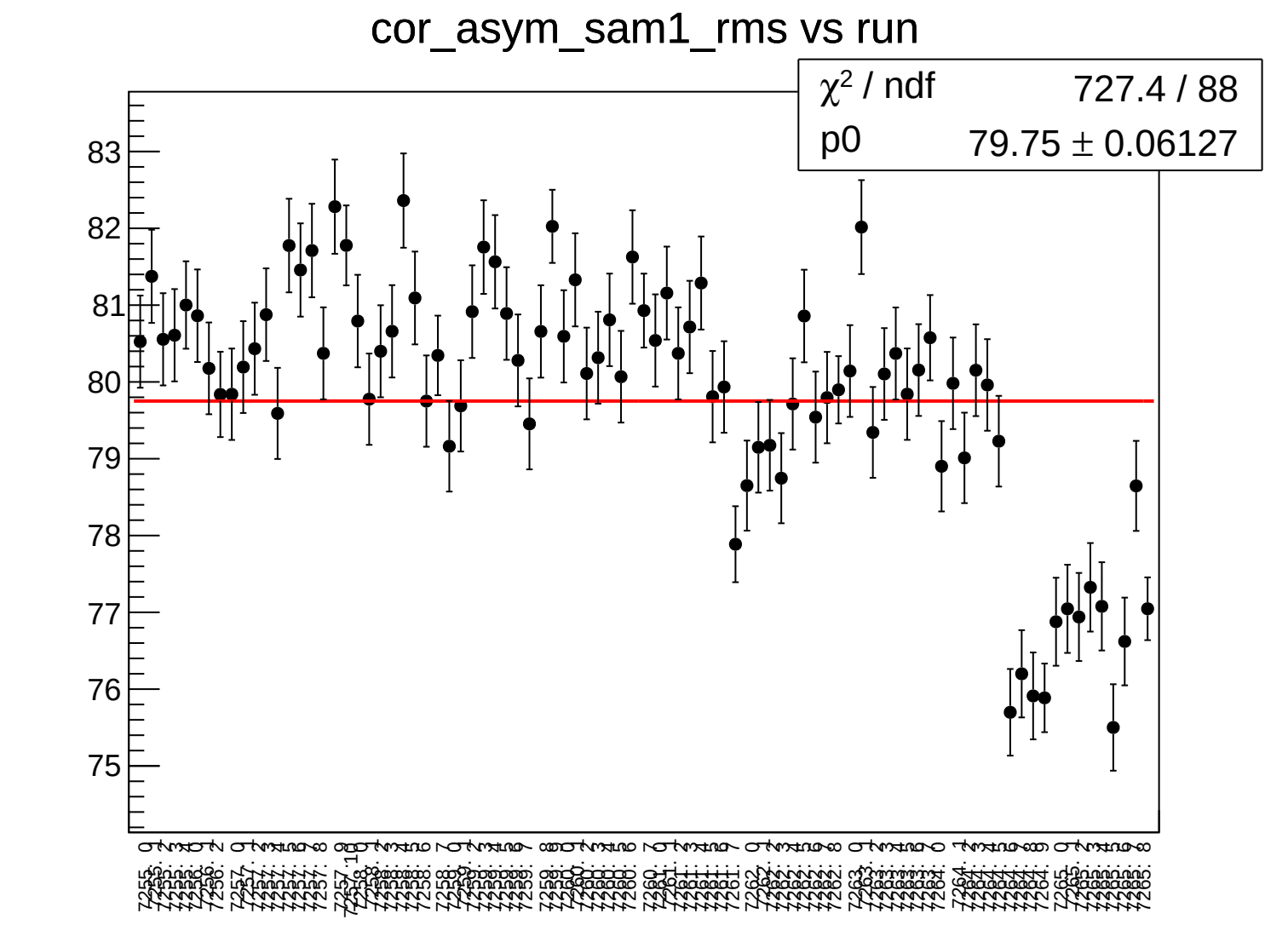

asym_sam1_reg_correction_mean vs run
χ² / ndf 101.1 / 88
p0 −135.1± 397.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 134.1
Std Dev 0
2
1
0
−1
−2

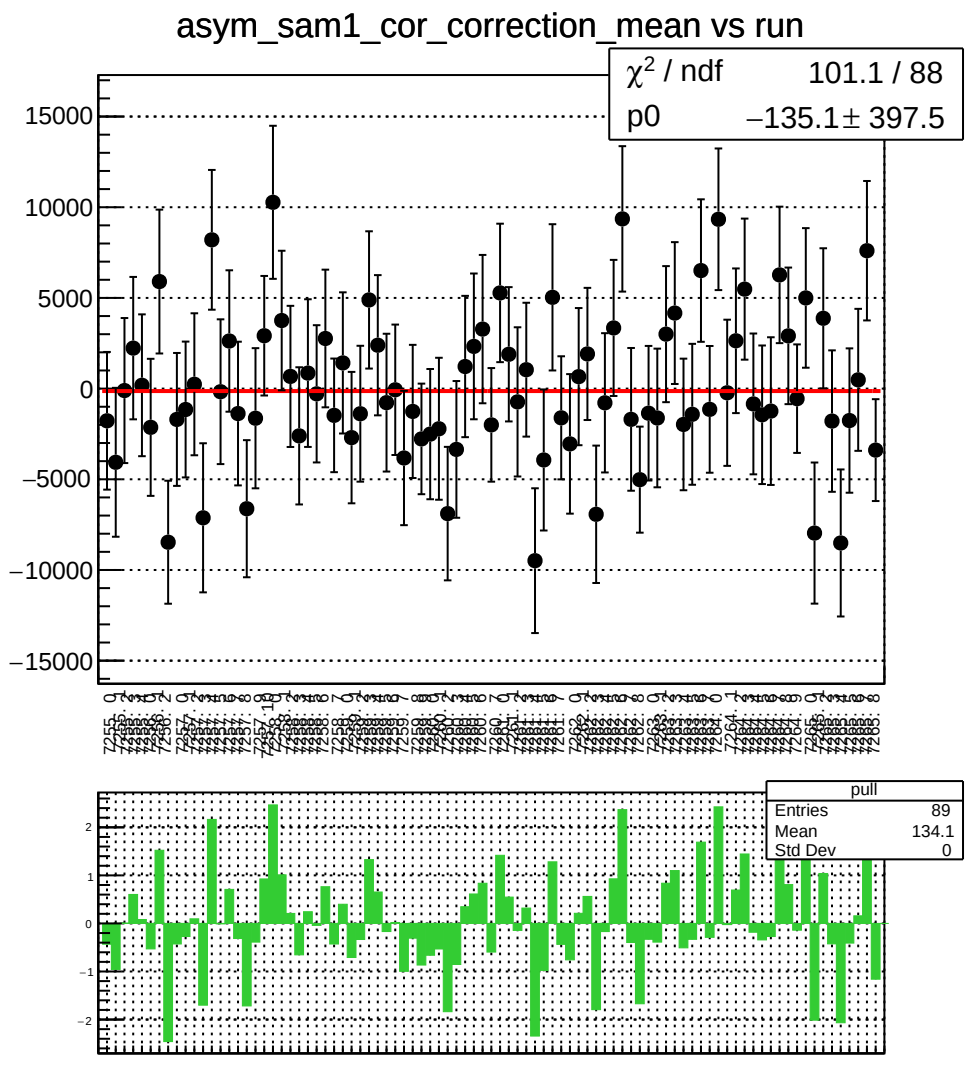

pull1D
Entries 89
Mean 0.02401
Std Dev 1.065
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

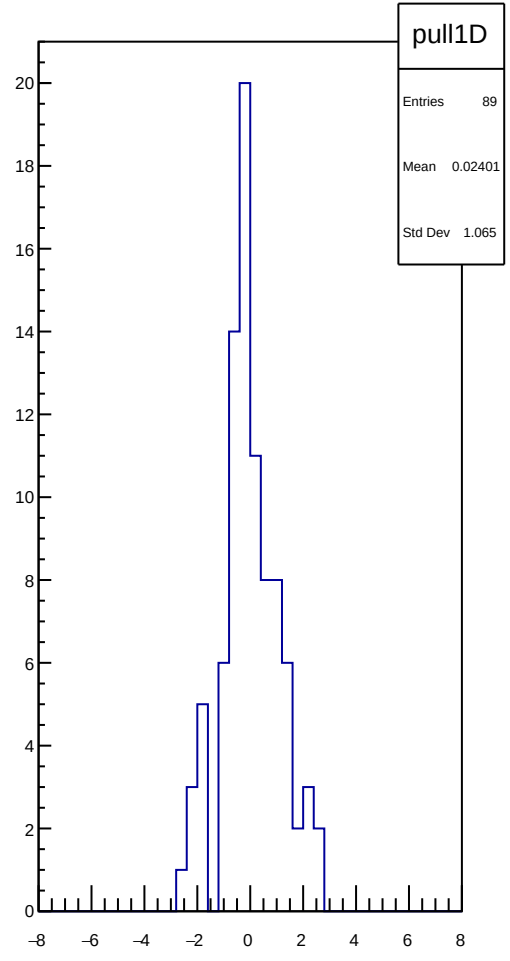

asym_sam1_reg_correction_rms vs run
χ² / ndf 2048 / 88
p0 365.7 ± 0.2811
400
390
380
370
360
350
340

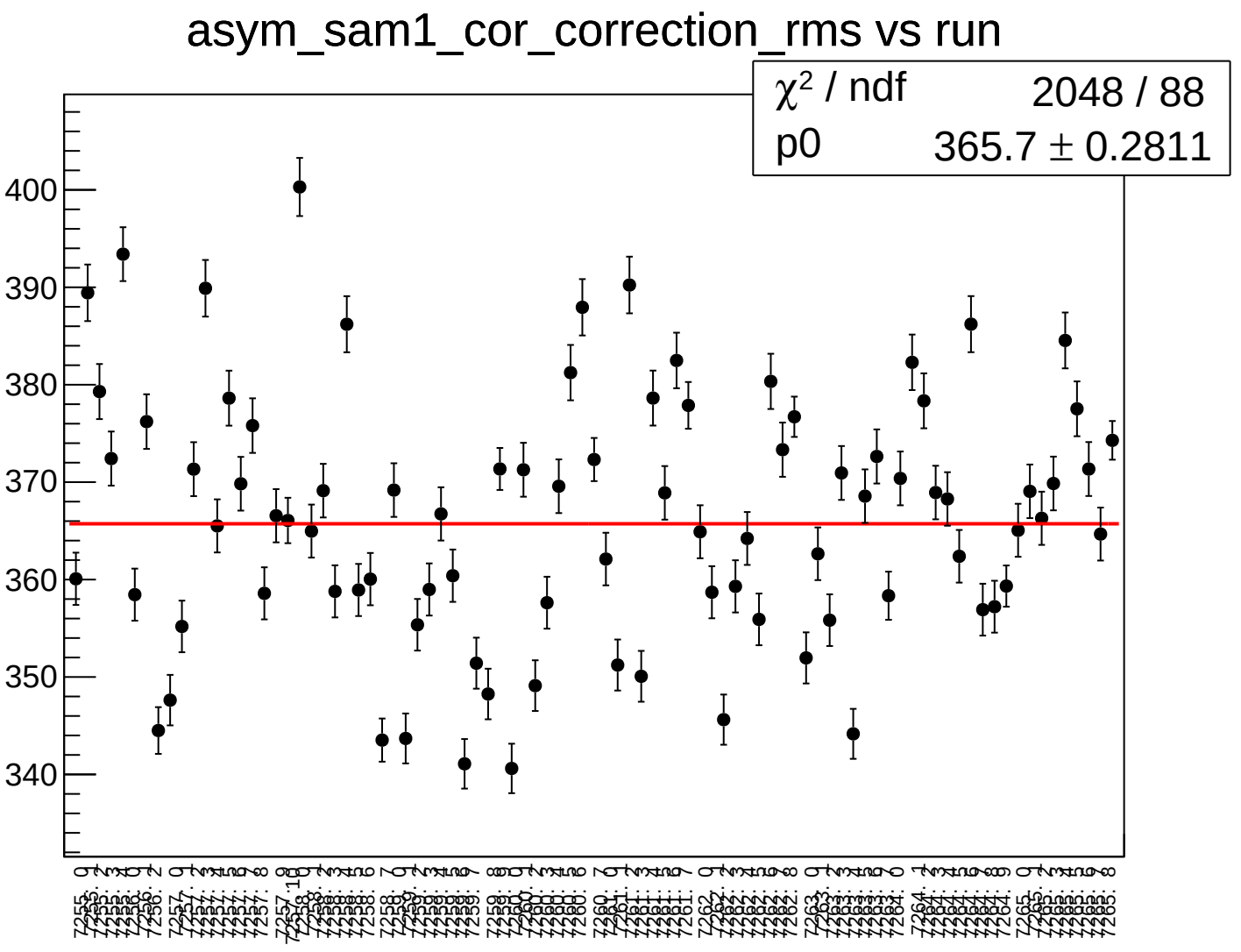

cor_asym_sam1_mean vs run
χ² / ndf 78.61 / 88
p0 150.7 ± 86.65
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −12.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

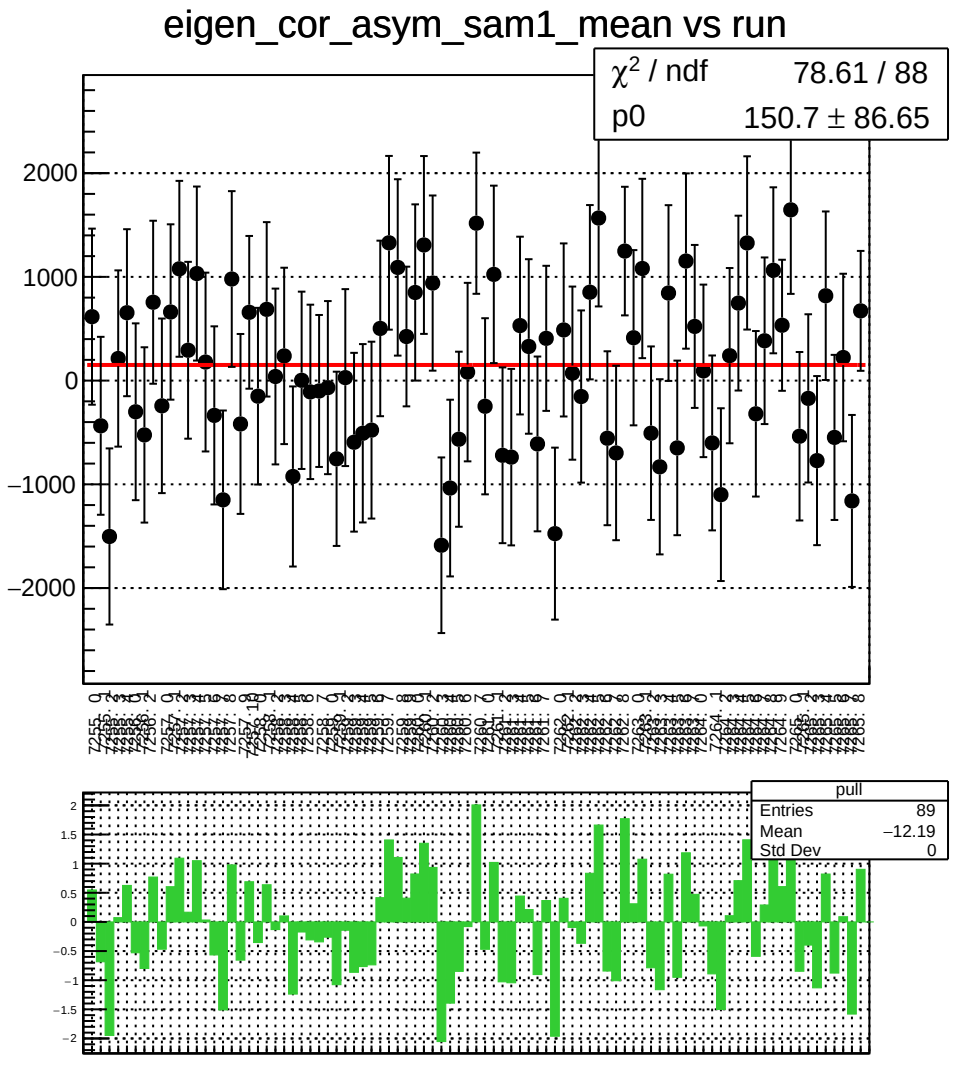

pull1D
Entries 89
Mean −0.0237
Std Dev 0.9395
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

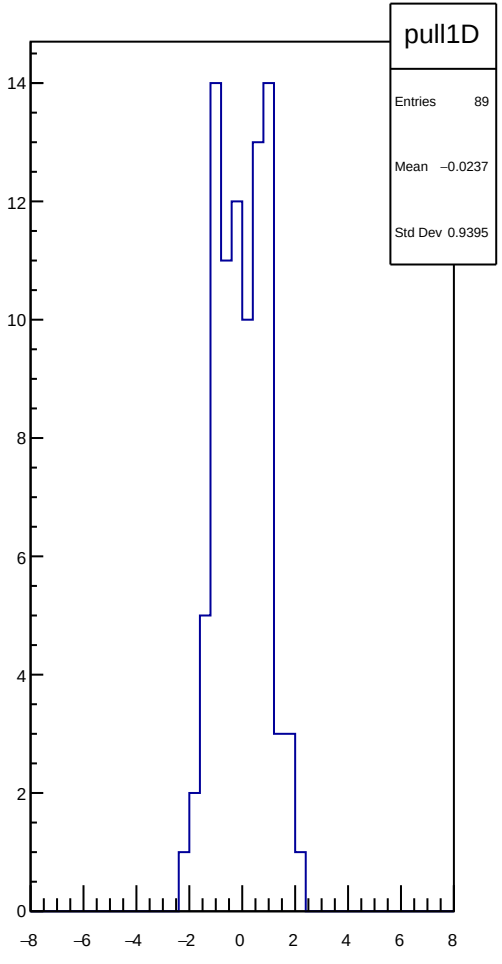

cor_asym_sam1_rms vs run
χ² / ndf 727.4 / 88
p0 79.75 ± 0.06127
83
82
81
80
79
78
77
76
75

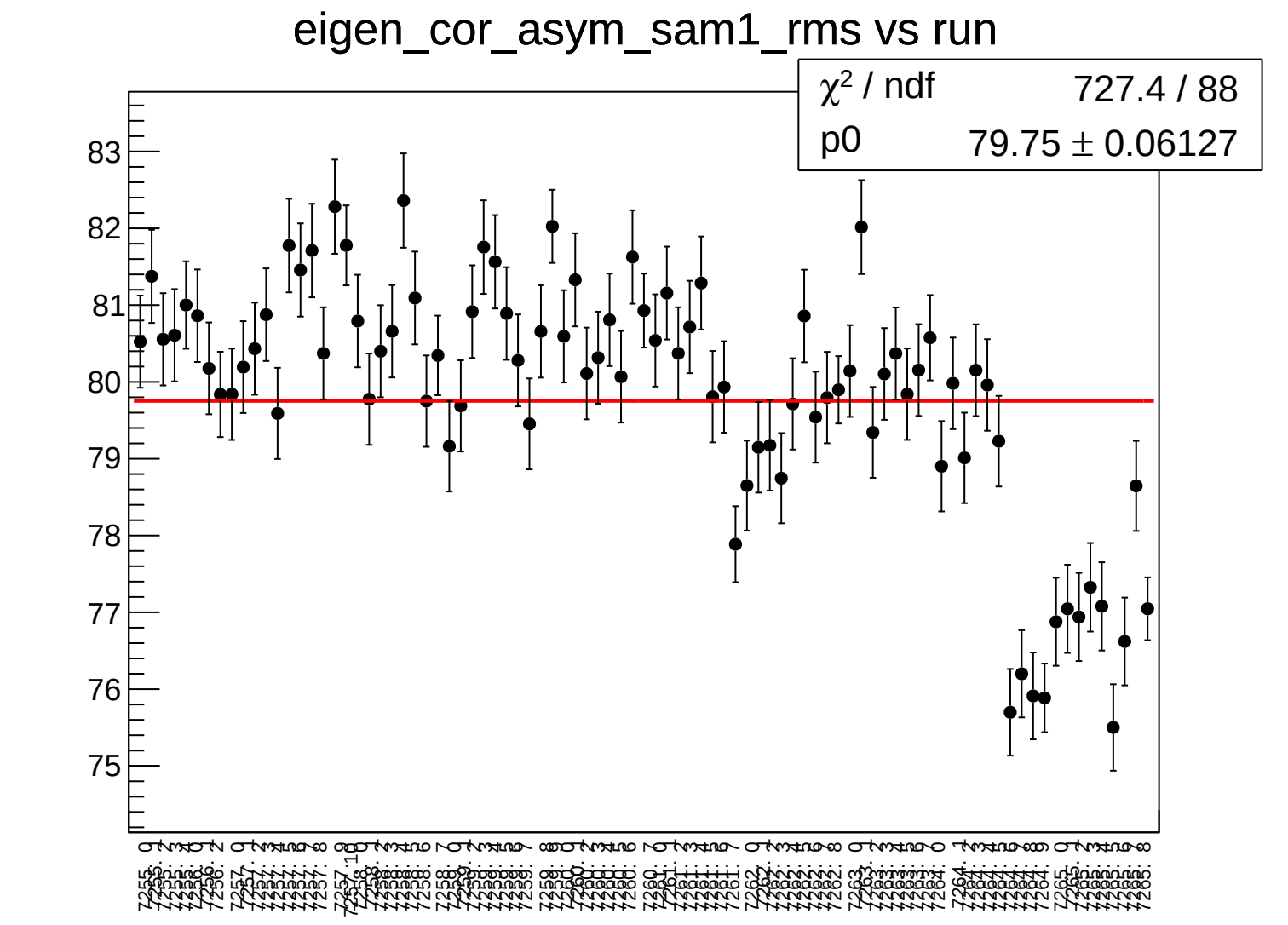

asym_sam1_cor_correction_mean vs run
χ² / ndf 101.1 / 88
p0 −135.1± 397.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 134.1
Std Dev 0
2
1
0
−1
−2

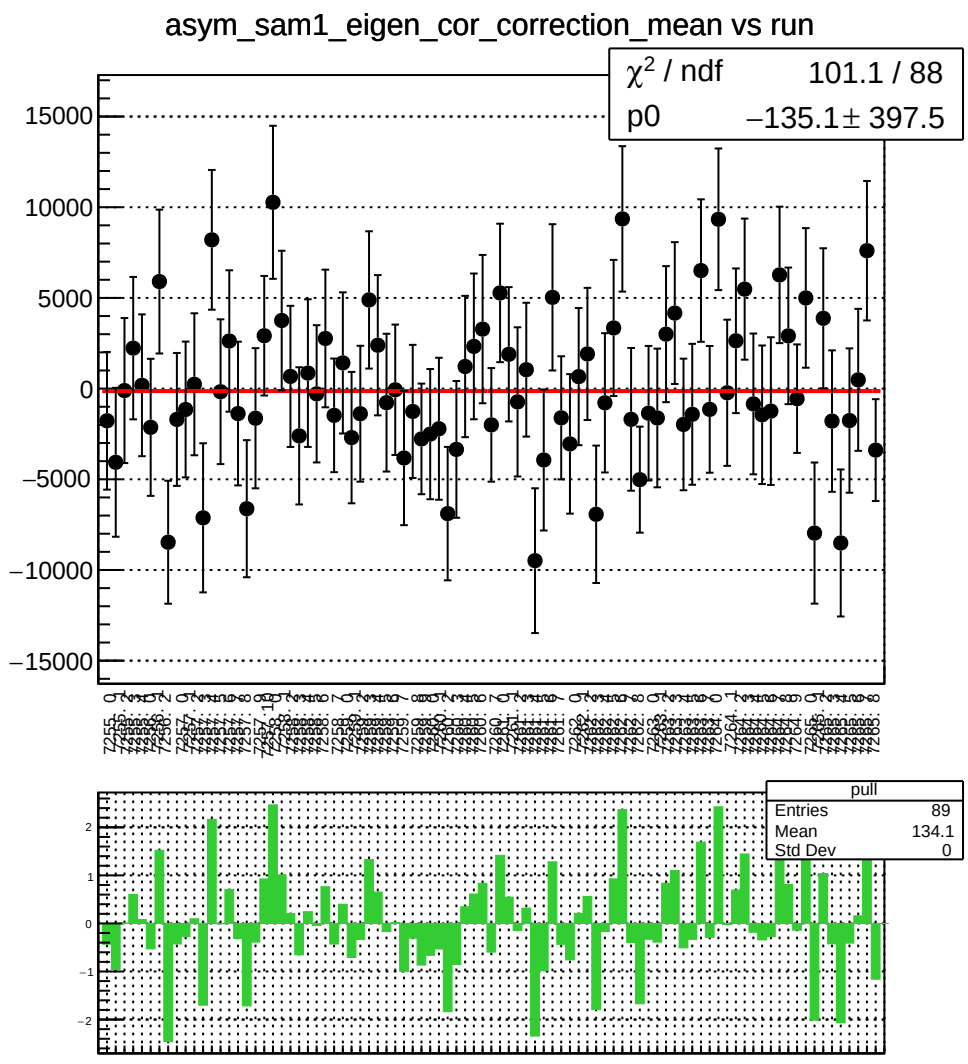

pull1D
Entries 89
Mean 0.02401
Std Dev 1.065
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

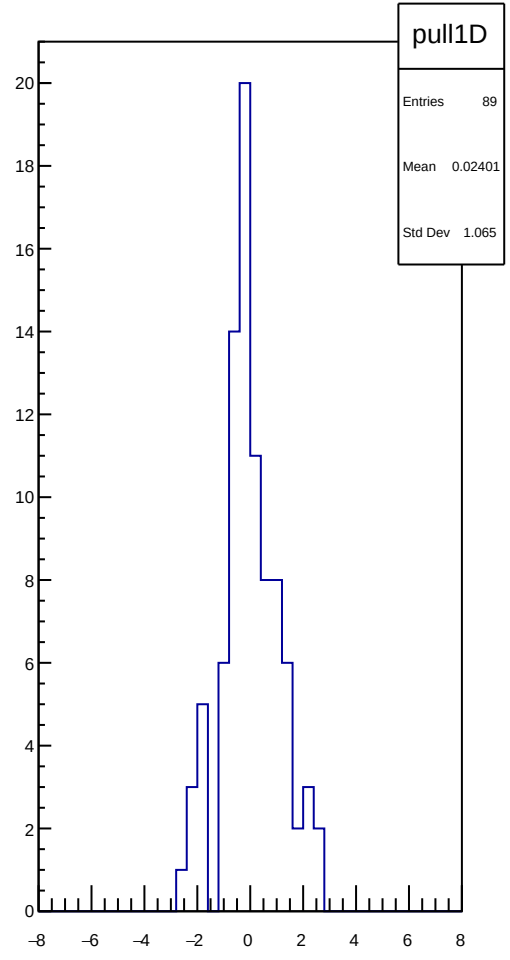

asym_sam1_cor_correction_rms vs run
χ² / ndf 2048 / 88
p0 365.7 ± 0.2811
400
390
380
370
360
350
340

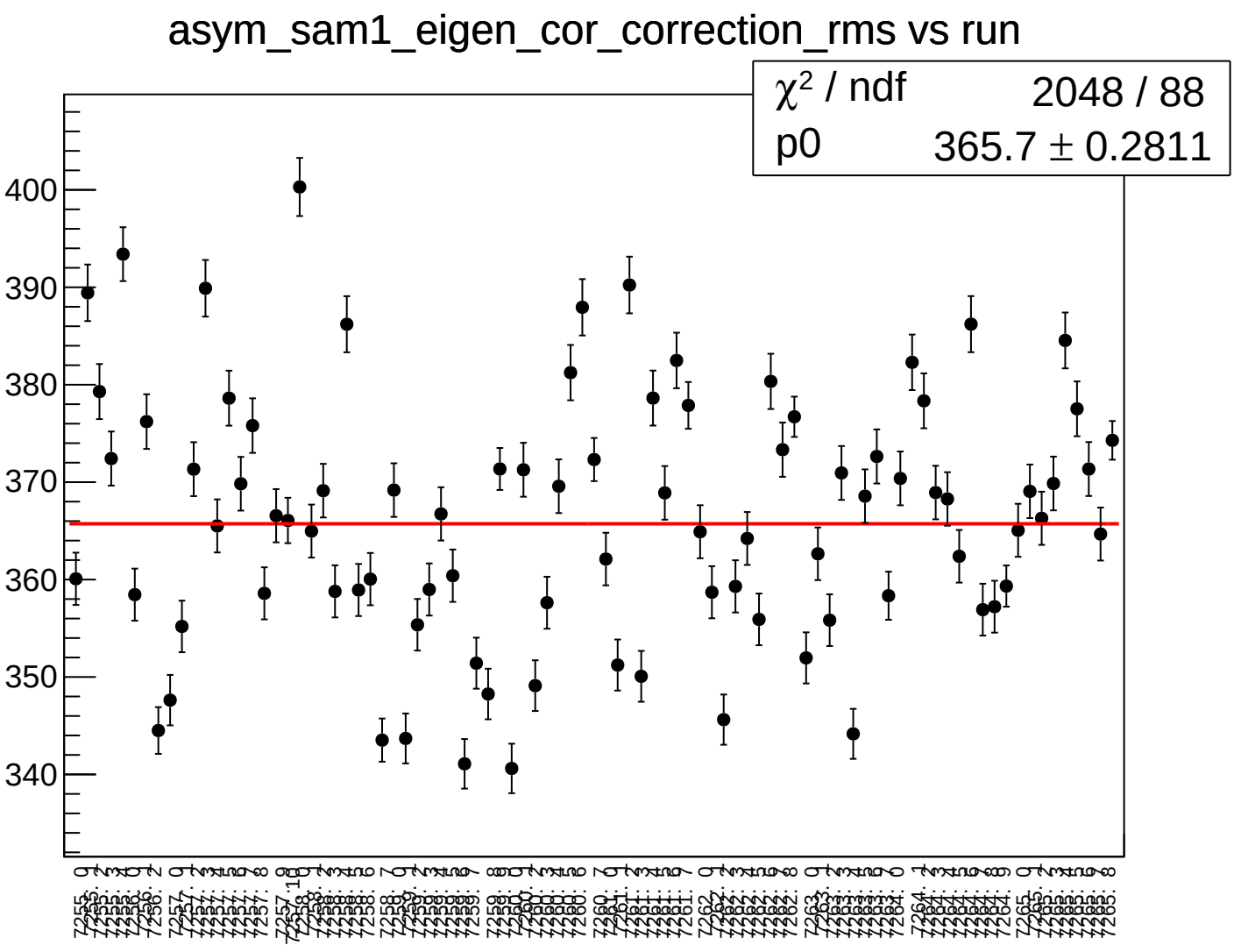

eigen_cor_asym_sam1_mean vs run
χ² / ndf 78.61 / 88
p0 150.7 ± 86.65
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −12.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

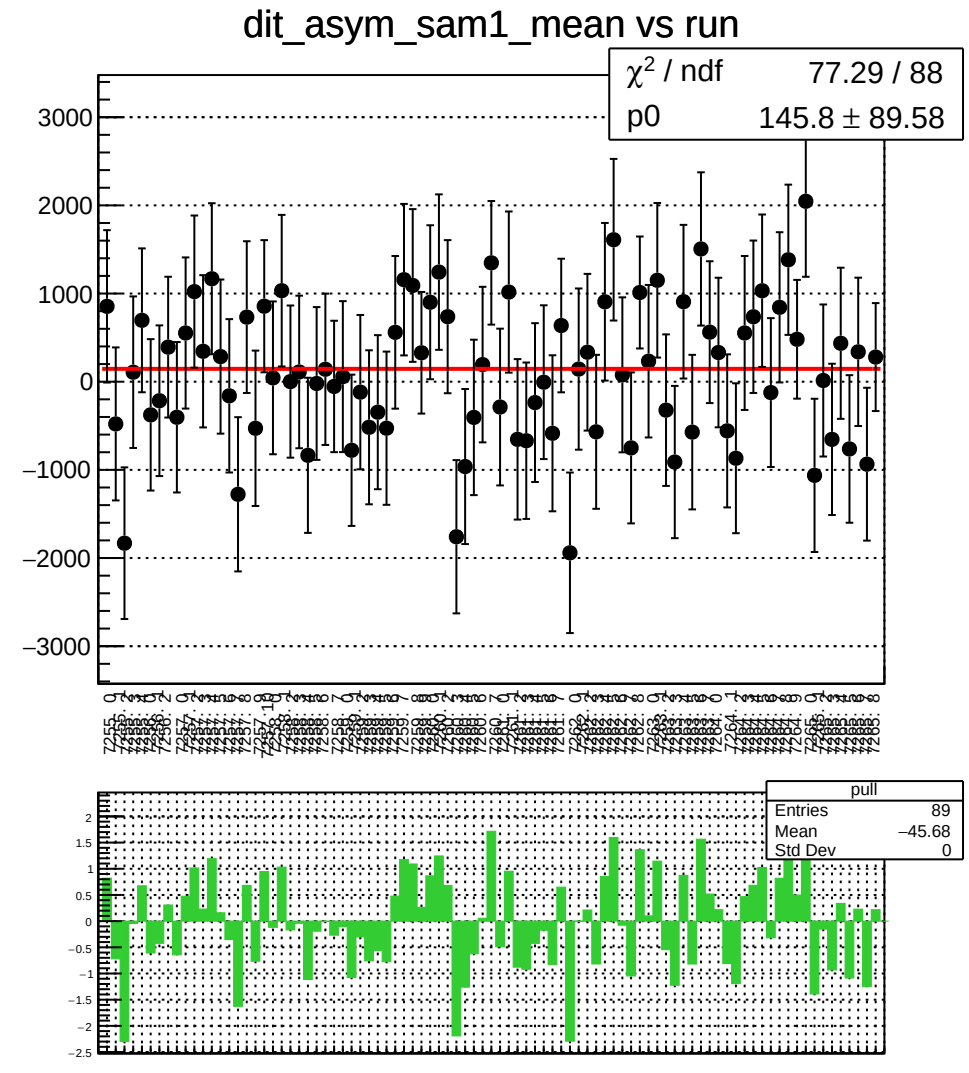

pull1D
Entries 89
Mean −0.0237
Std Dev 0.9395
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

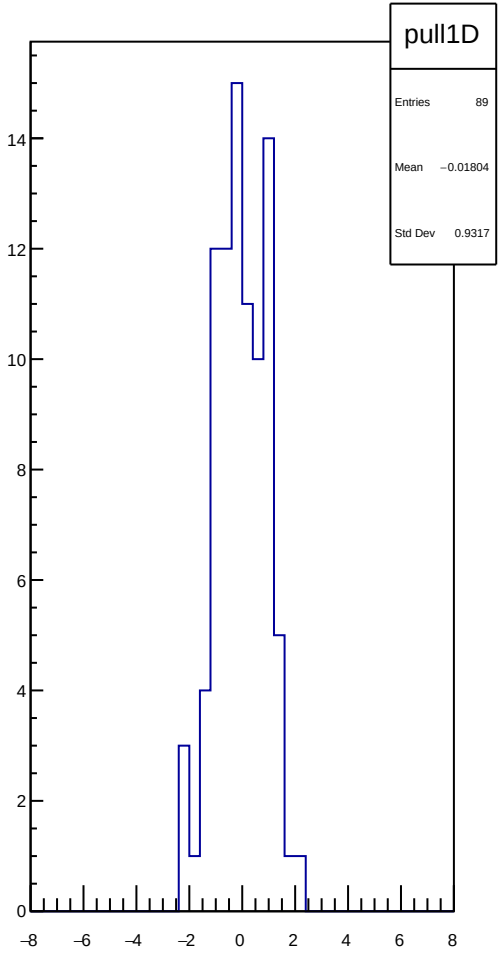

eigen_cor_asym_sam1_rms vs run
χ² / ndf 727.4 / 88
p0 79.75 ± 0.06127
83
82
81
80
79
78
77
76
75

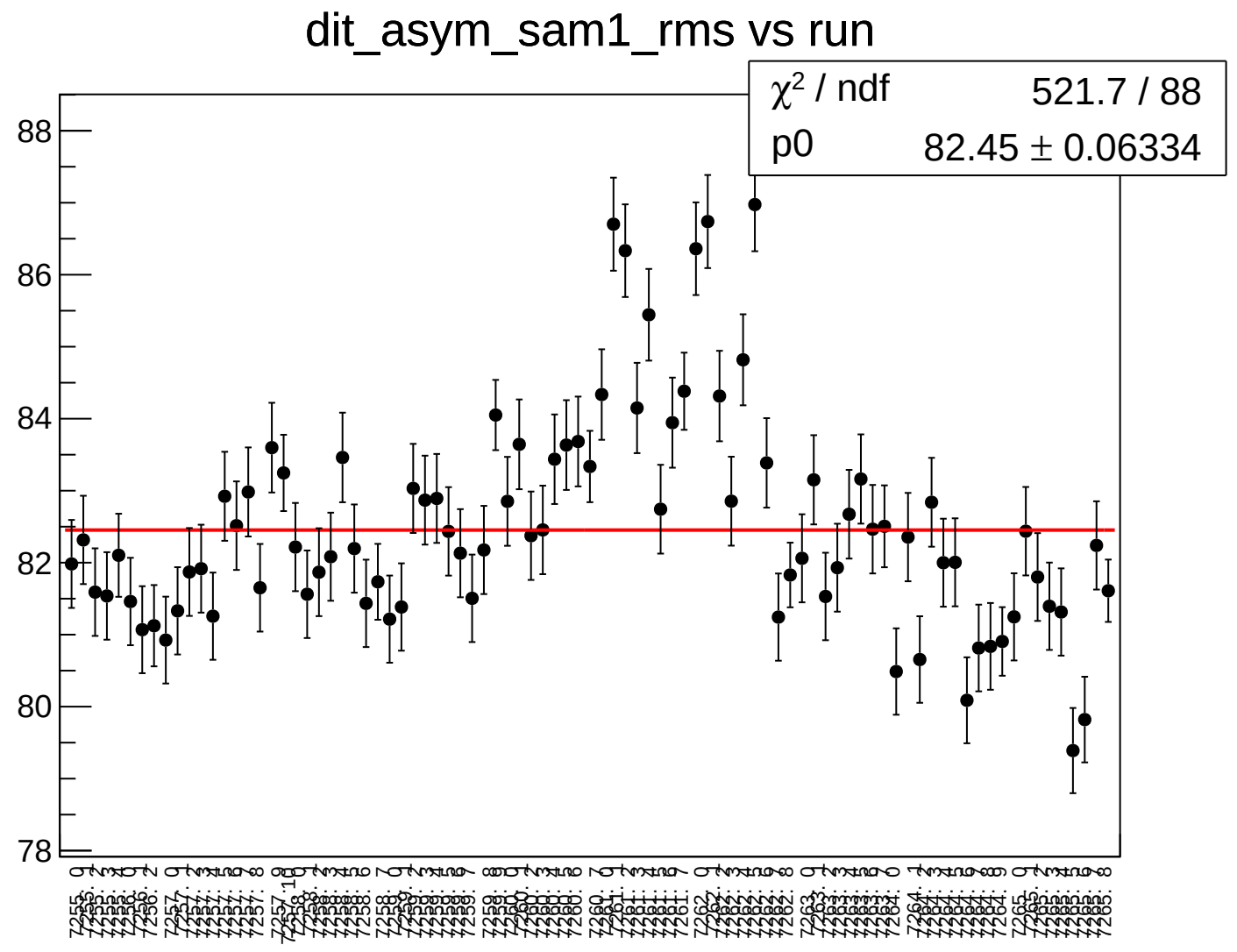

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 101.1 / 88
p0 −135.1± 397.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 134.1
Std Dev 0
2
1
0
−1
−2

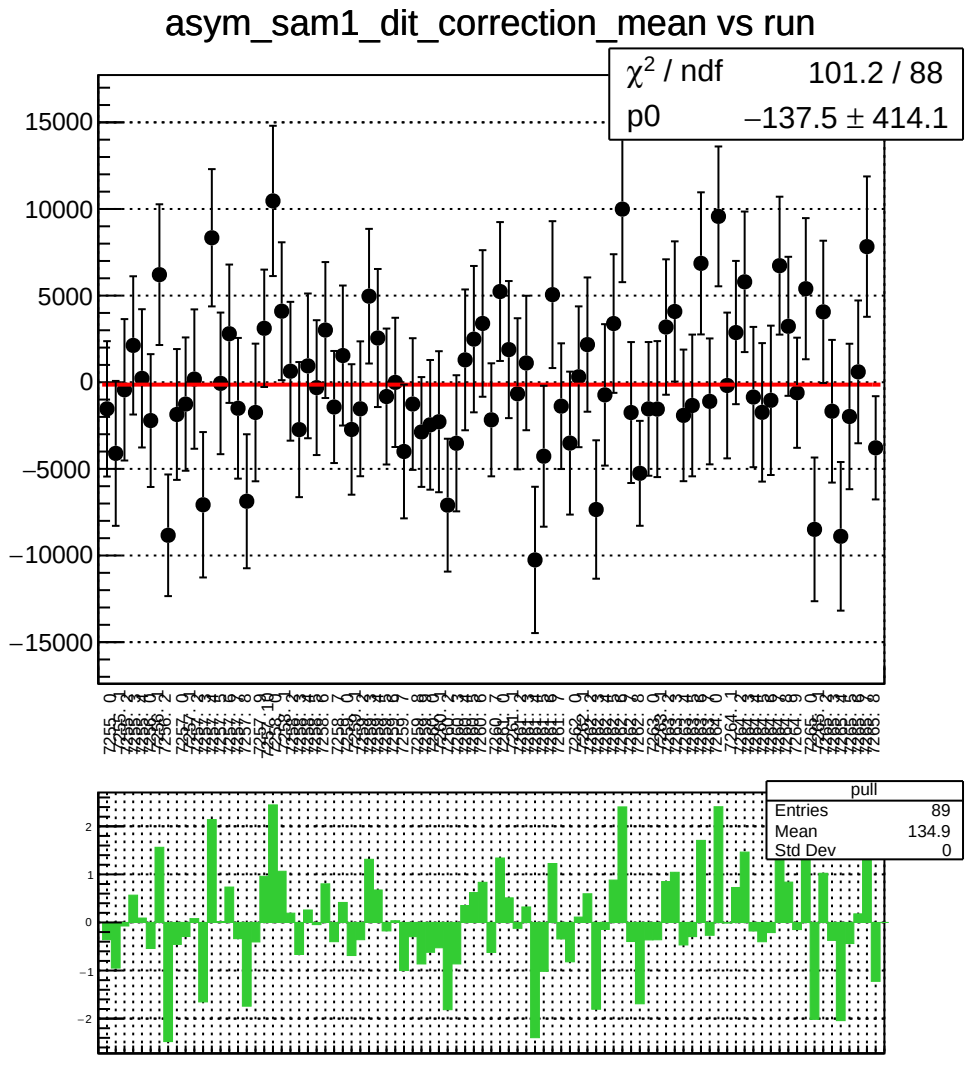

pull1D
Entries 89
Mean 0.02401
Std Dev 1.065
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

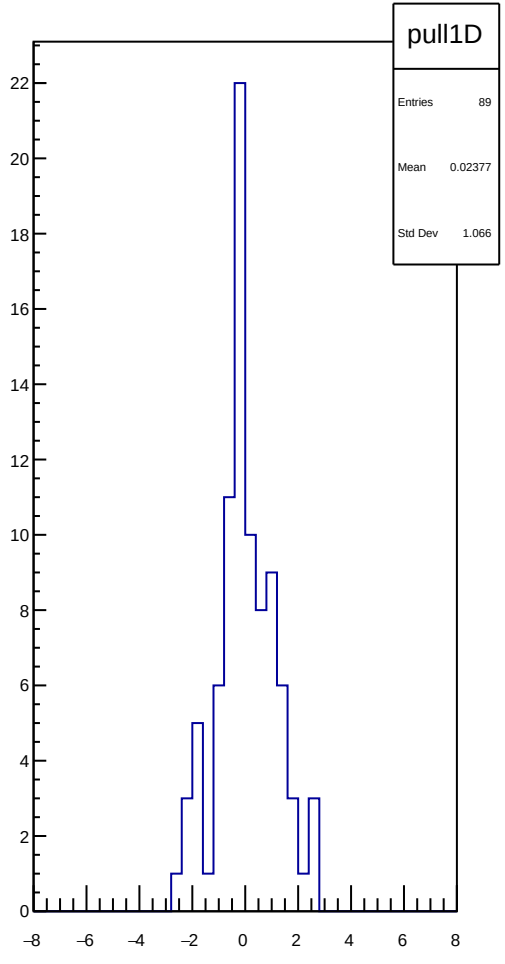

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 2048 / 88
p0 365.7 ± 0.2811
400
390
380
370
360
350
340

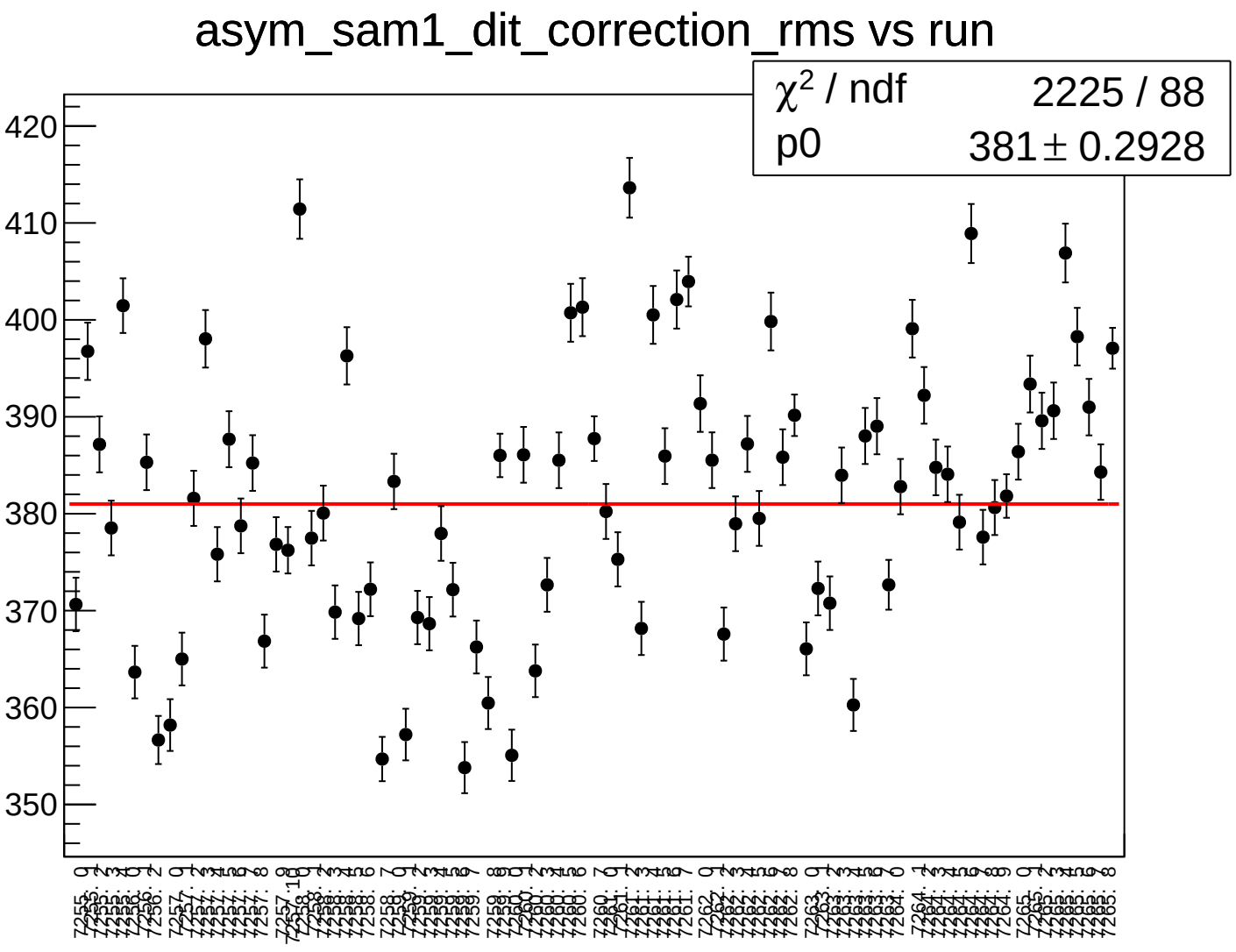

dit_asym_sam1_mean vs run
χ^2 / ndf 77.29 / 88
p0 145.8 ± 89.58
pull
Entries 89
Mean −45.68
Std Dev 0

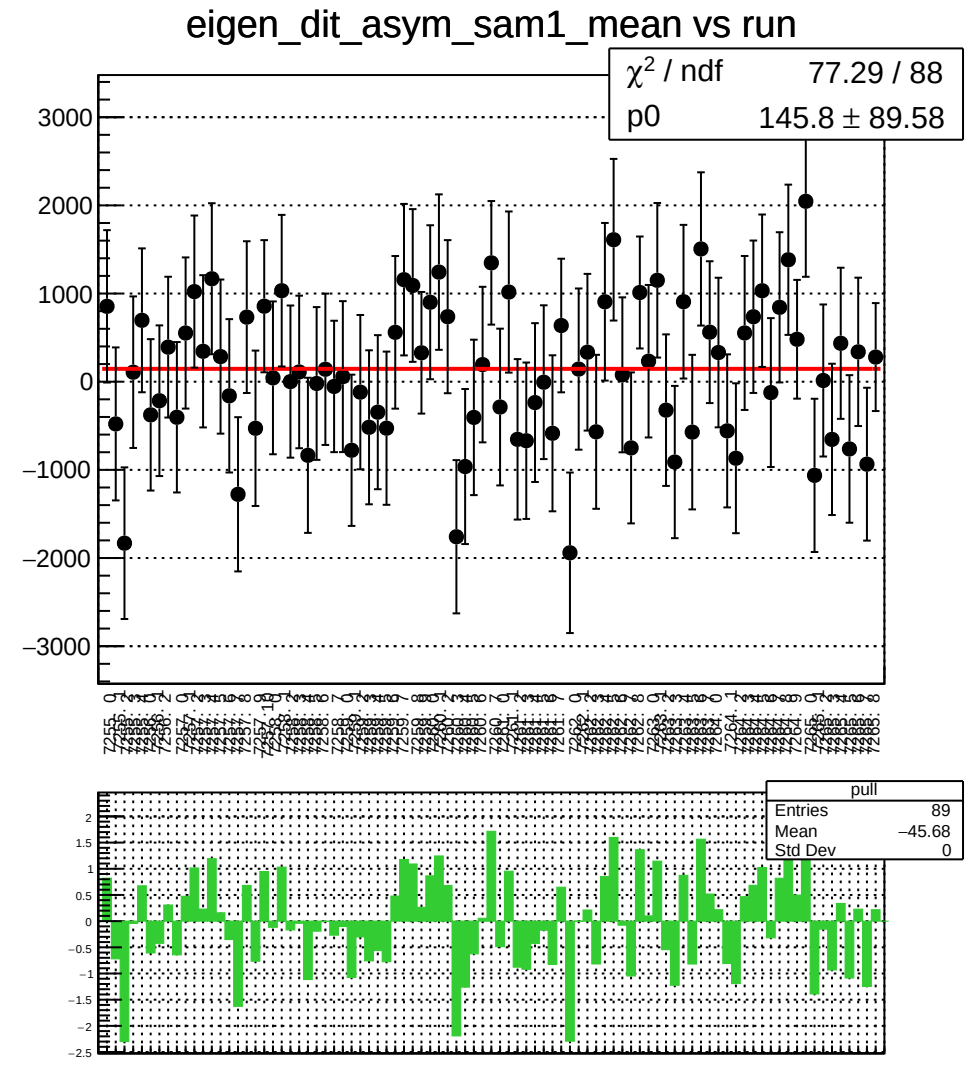

pull1D
Entries 89
Mean −0.01804
Std Dev 0.9317

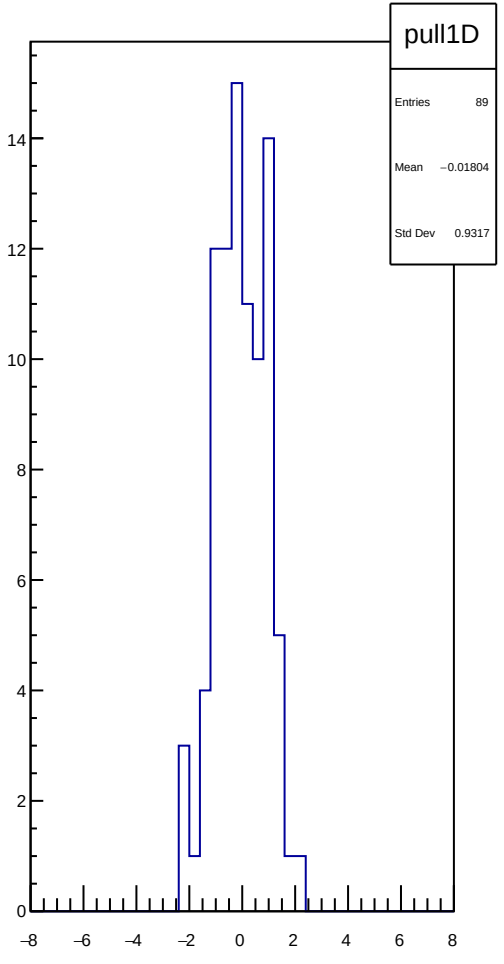

dit_asym_sam1_rms vs run
χ² / ndf 521.7 / 88
p0 82.45 ± 0.06334
88
86
84
82
80
78

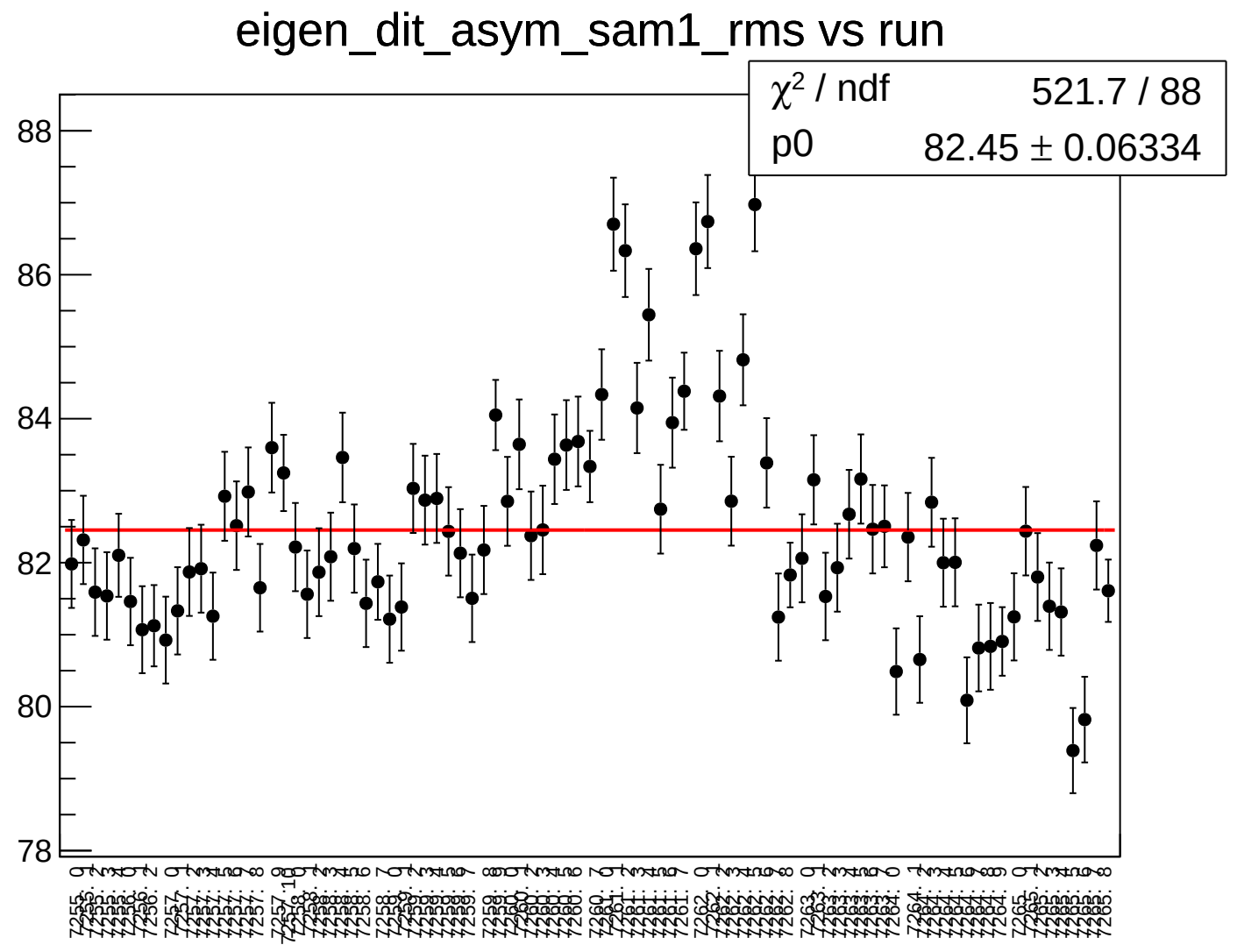

asym_sam1_dit_correction_mean vs run
χ² / ndf 101.2 / 88
p0 −137.5 ± 414.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 134.9
Std Dev 0
2
1
0
−1
−2

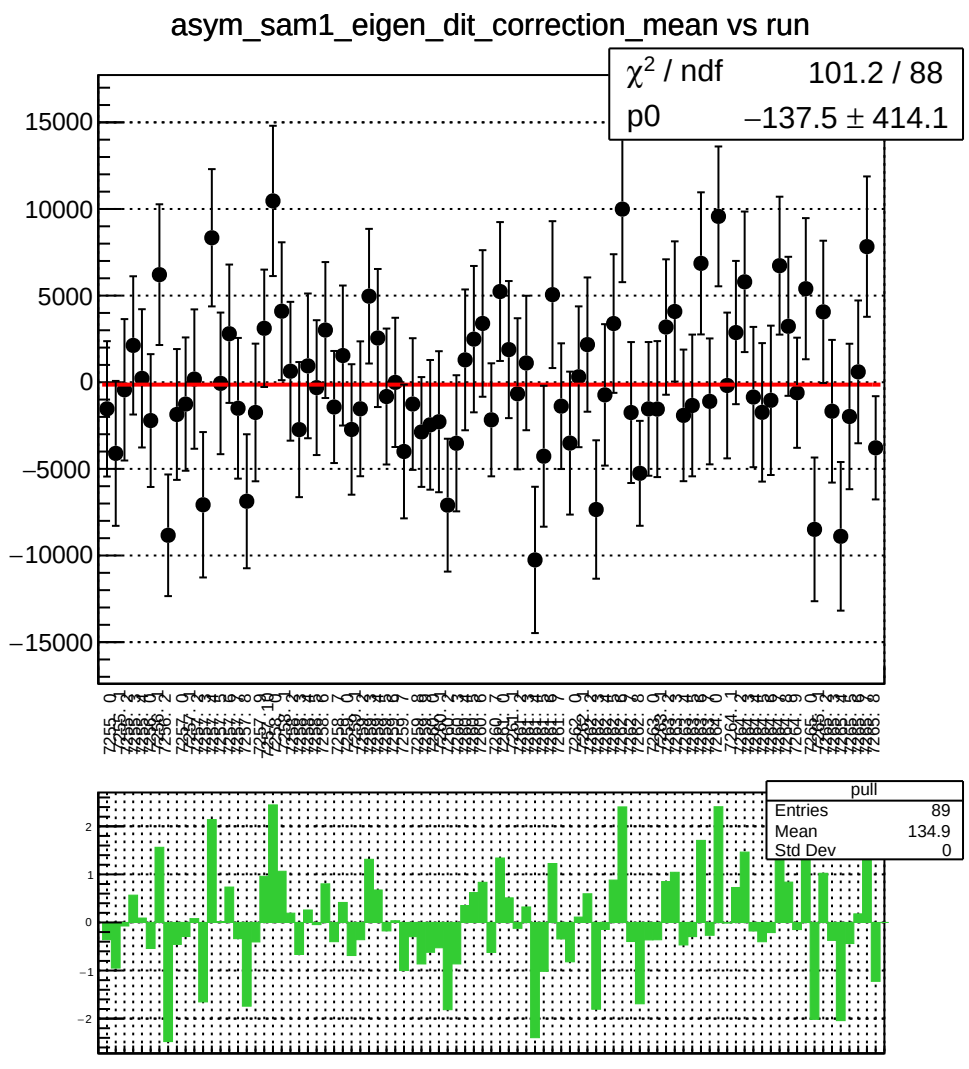

pull1D
Entries 89
Mean 0.02377
Std Dev 1.066
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

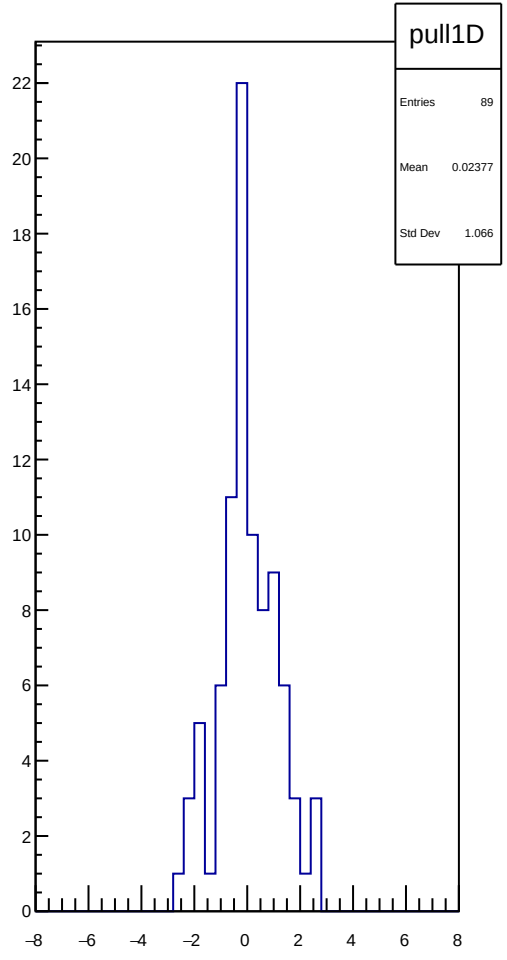

asym_sam1_dit_correction_rms vs run
χ² / ndf 2225 / 88
p0 381 ± 0.2928
420
410
400
390
380
370
360
350

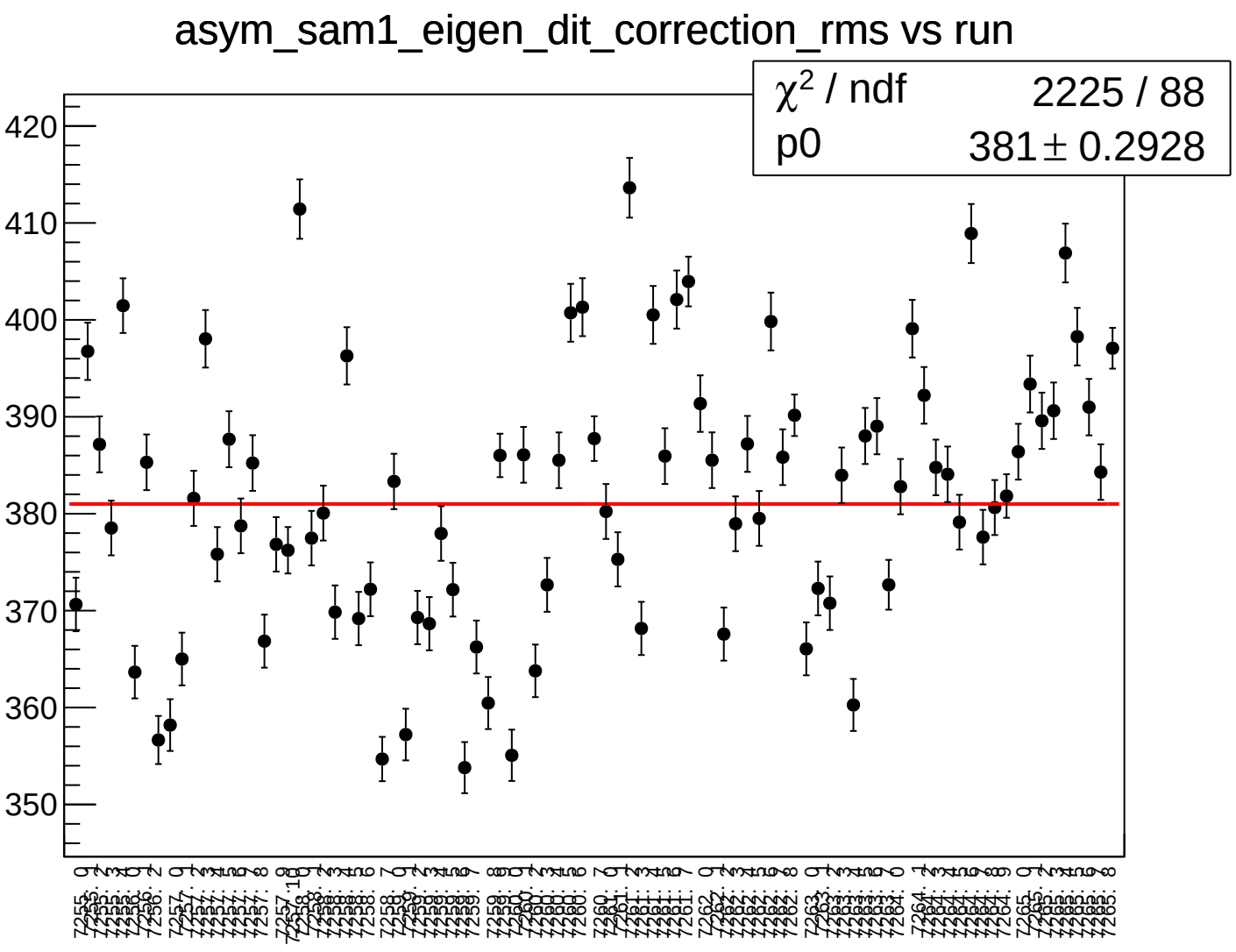

eigen_dit_asym_sam1_mean vs run
χ² / ndf 77.29 / 88
p0 145.8 ± 89.58
pull
Entries 89
Mean −45.68
Std Dev 0

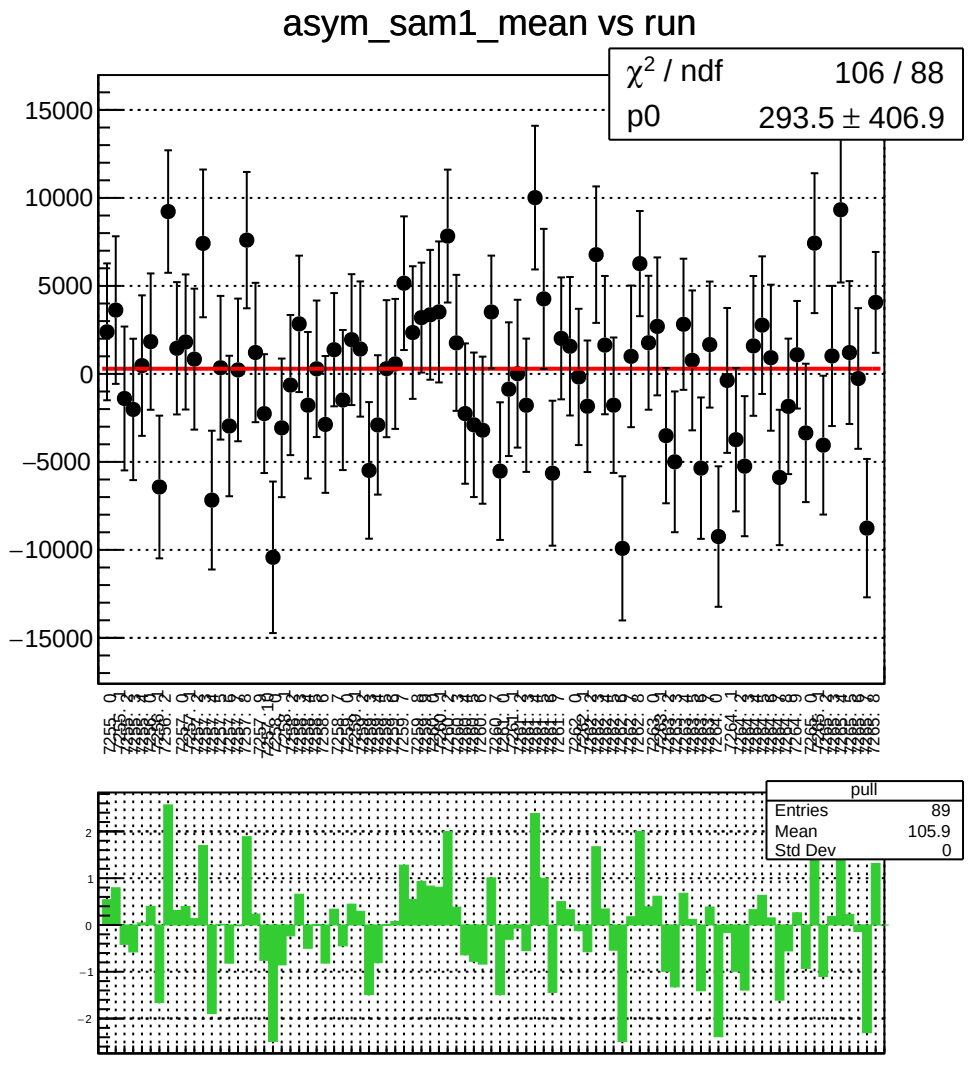

pull1D
Entries 89
Mean −0.01804
Std Dev 0.9317

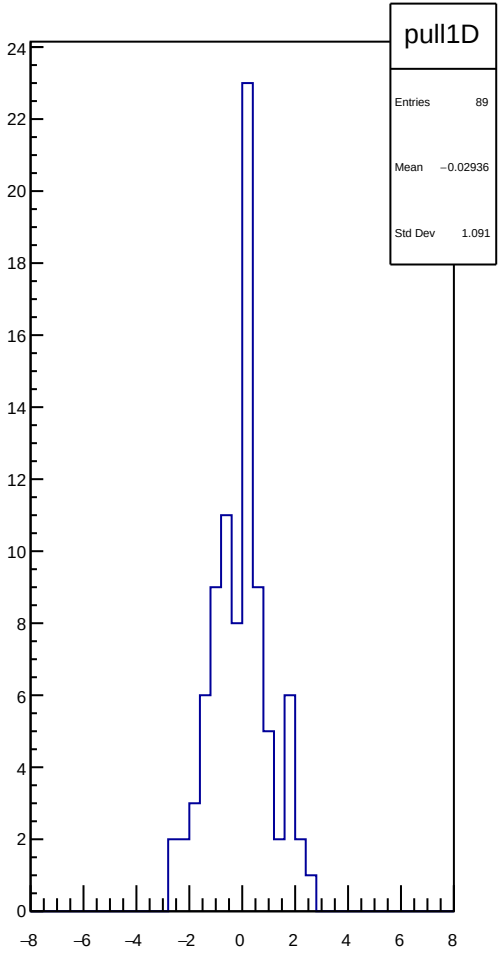

eigen_dit_asym_sam1_rms vs run
χ² / ndf 521.7 / 88
p0 82.45 ± 0.06334
88
86
84
82
80
78

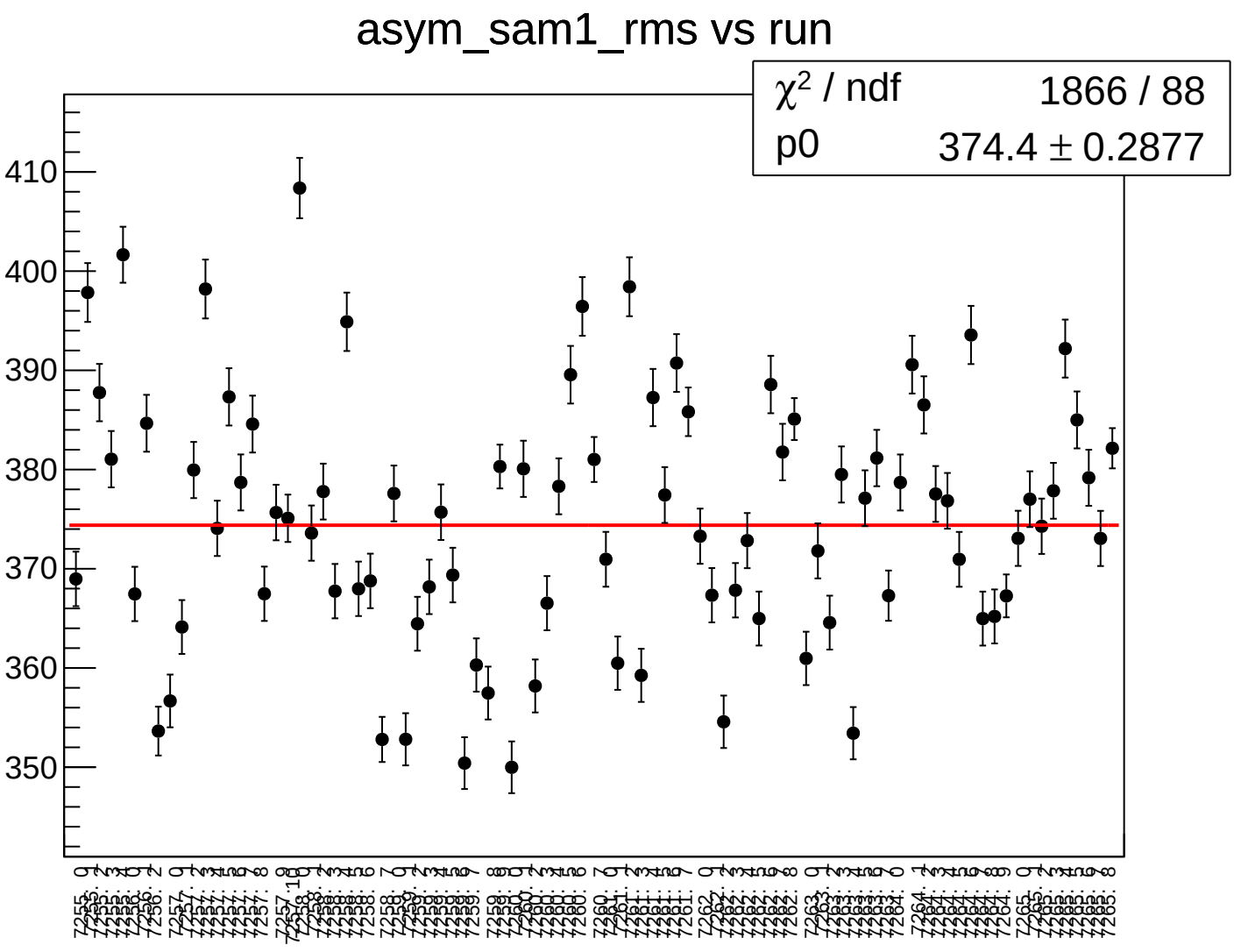

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 101.2 / 88
p0 −137.5 ± 414.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 134.9
Std Dev 0
2
1
0
−1
−2

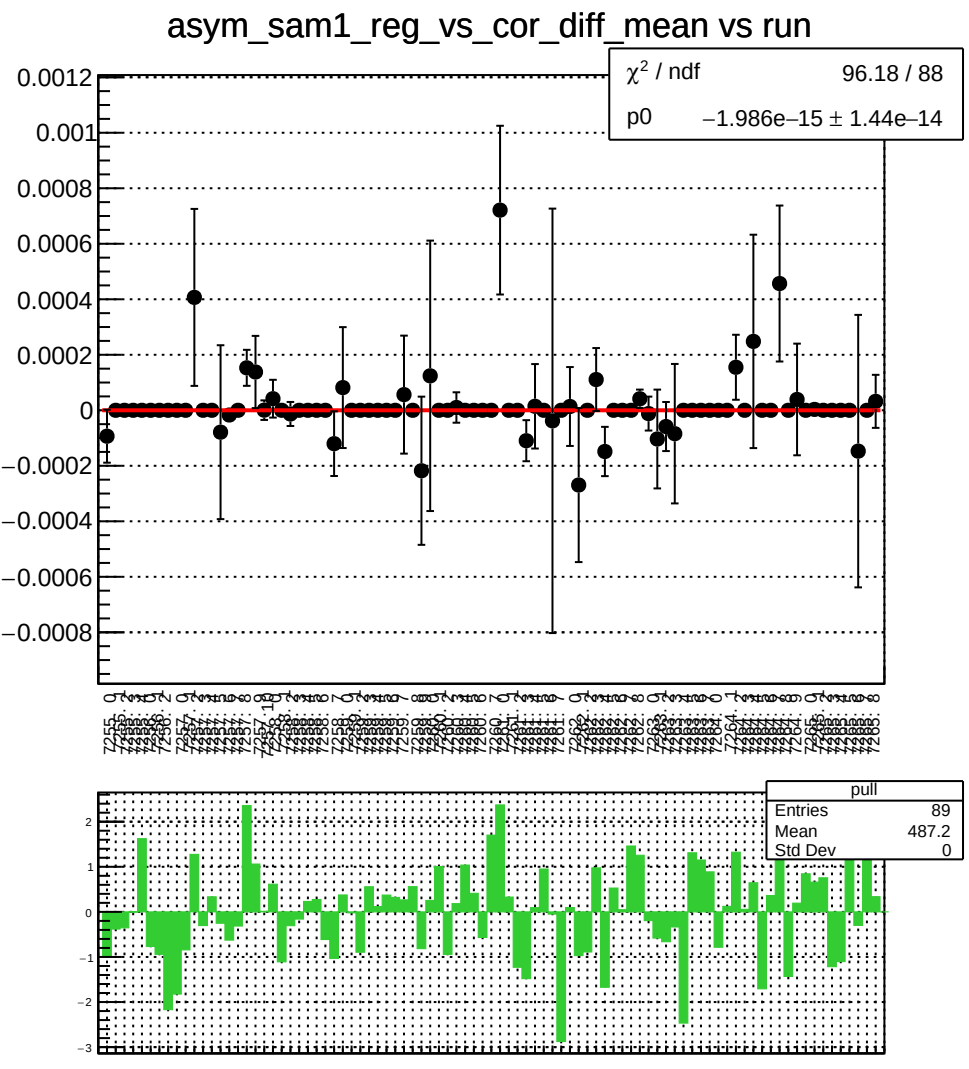

pull1D
Entries 89
Mean 0.02377
Std Dev 1.066
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

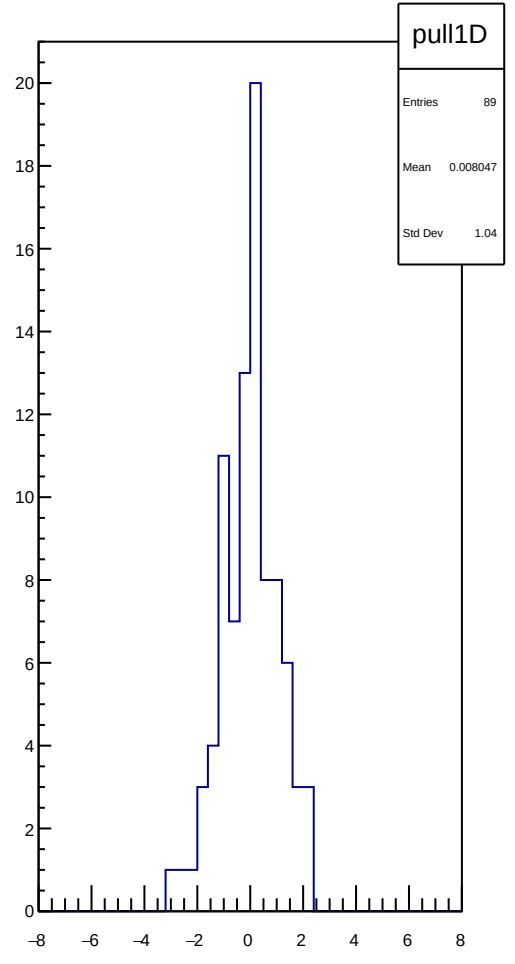

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 2225 / 88
p0 381 ± 0.2928
420
410
400
390
380
370
360
350

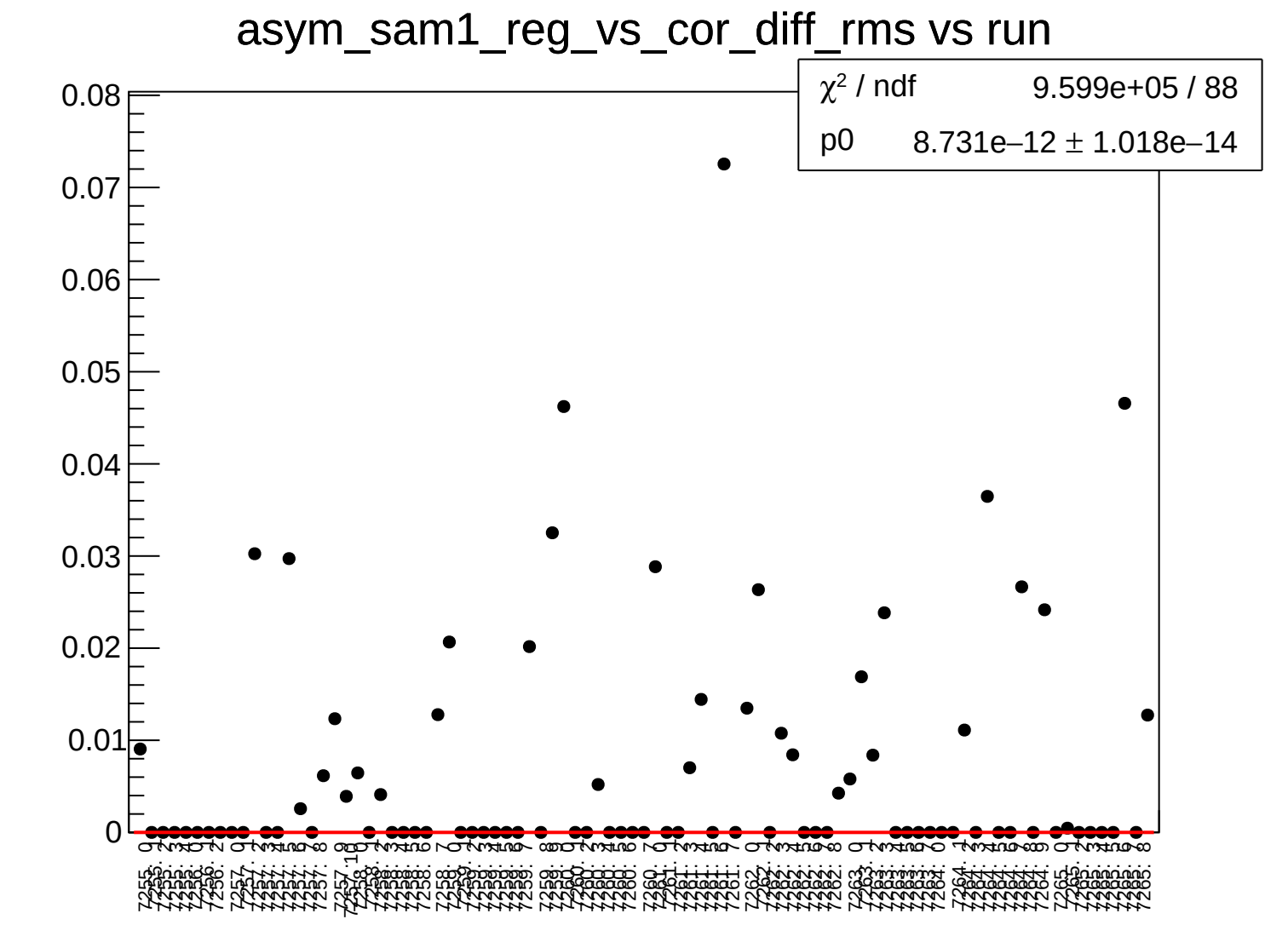

asym_sam1_mean vs run
χ² / ndf 106 / 88
p0 293.5 ± 406.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 105.9
Std Dev 0
2
1
0
−1
−2

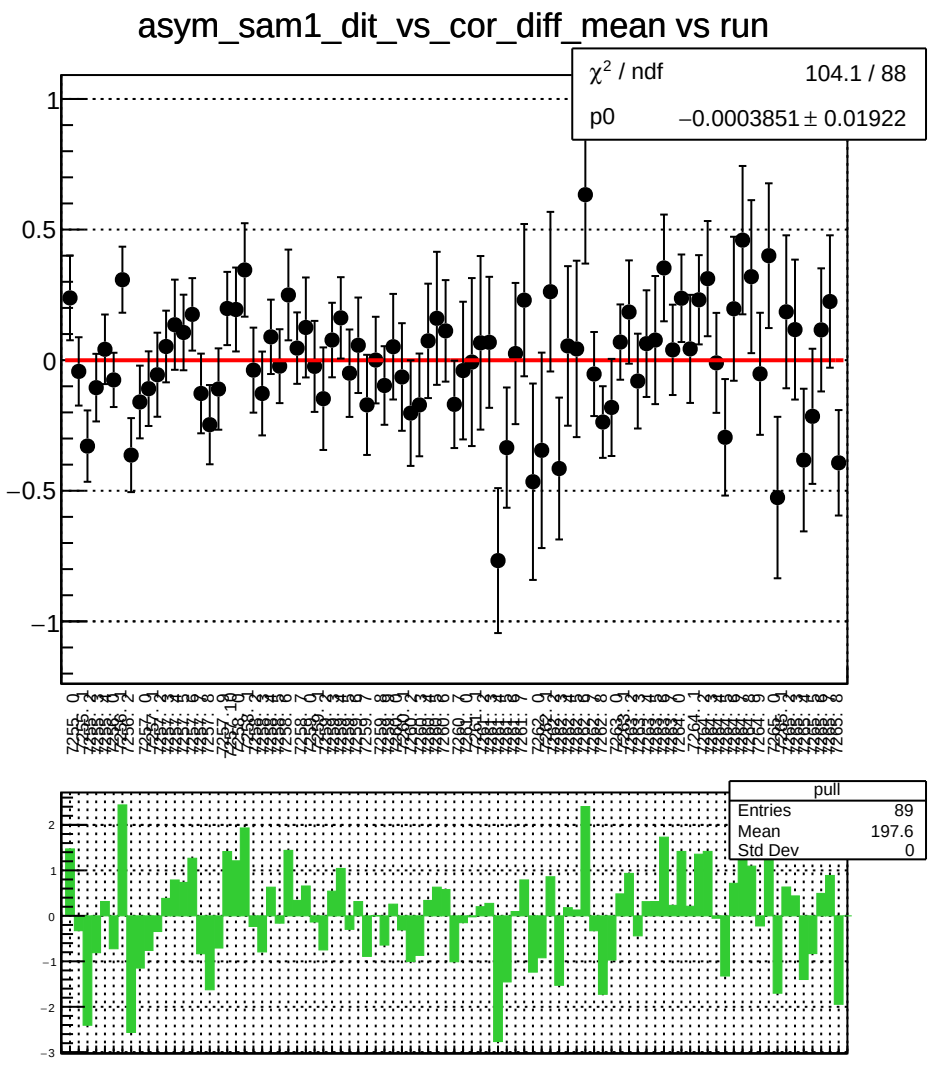

pull1D
Entries 89
Mean −0.02936
Std Dev 1.091
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

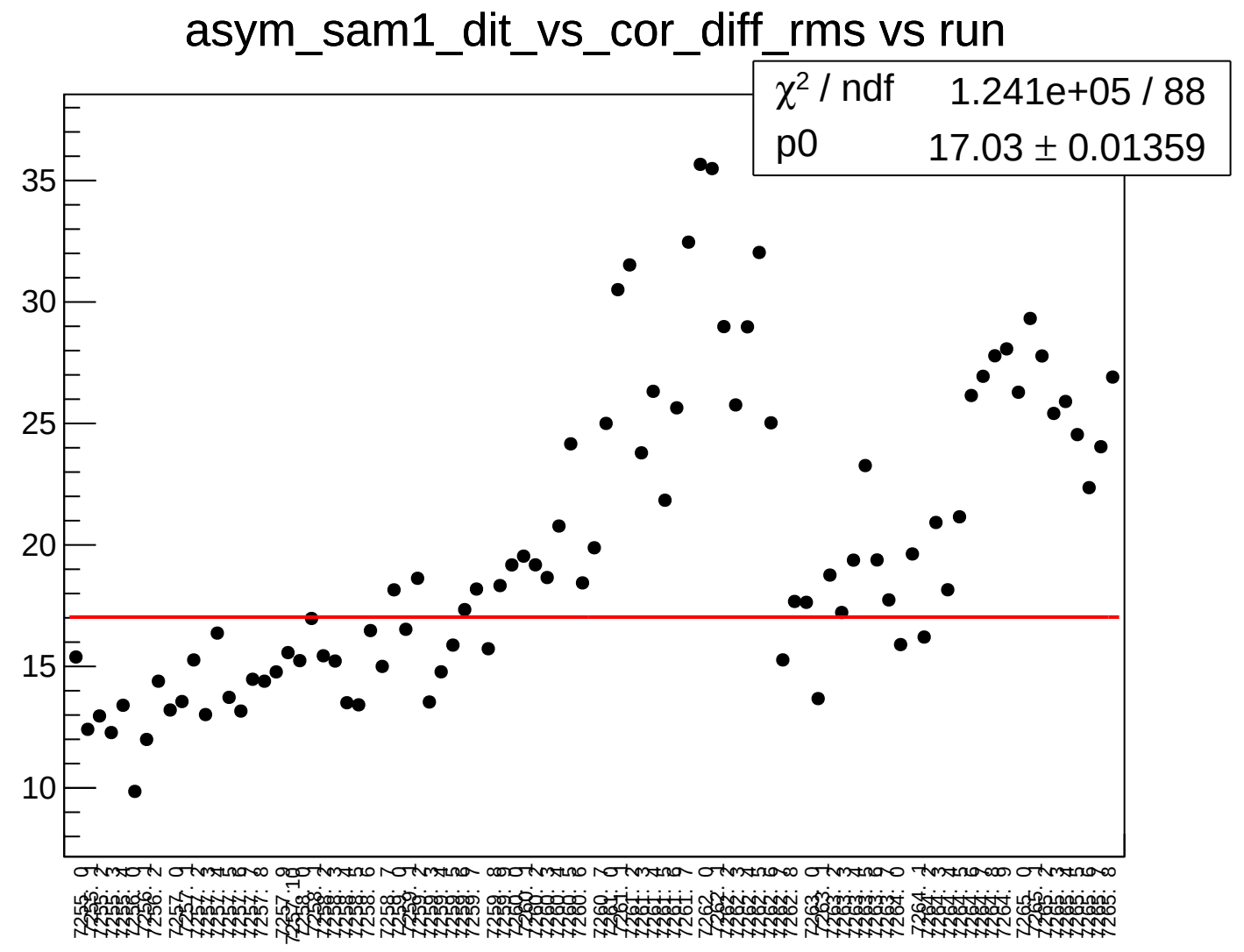

asym_sam1_rms vs run
χ² / ndf 1866 / 88
p0 374.4 ± 0.2877
410
400
390
380
370
360
350

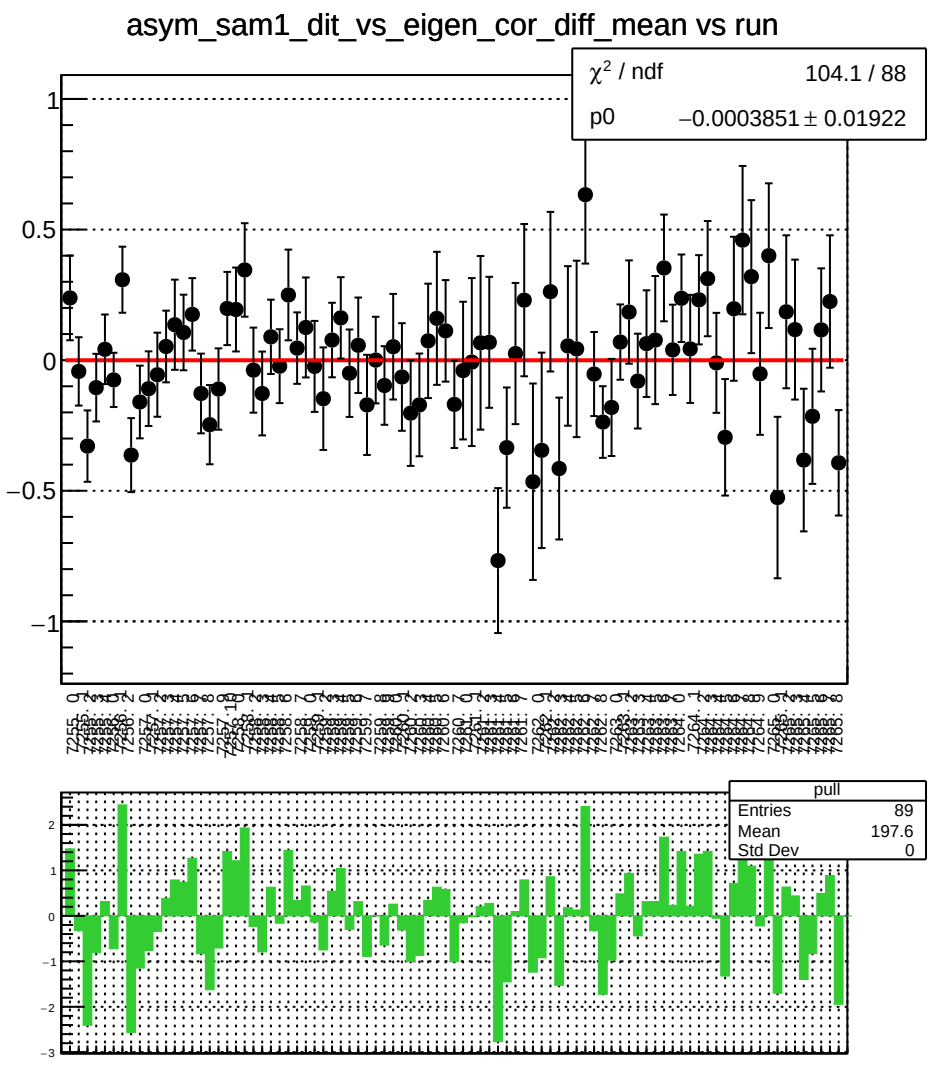

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 96.18 / 88
p0 −1.986e−15 ± 1.44e−14
pull
Entries 89
Mean 487.2
Std Dev 0

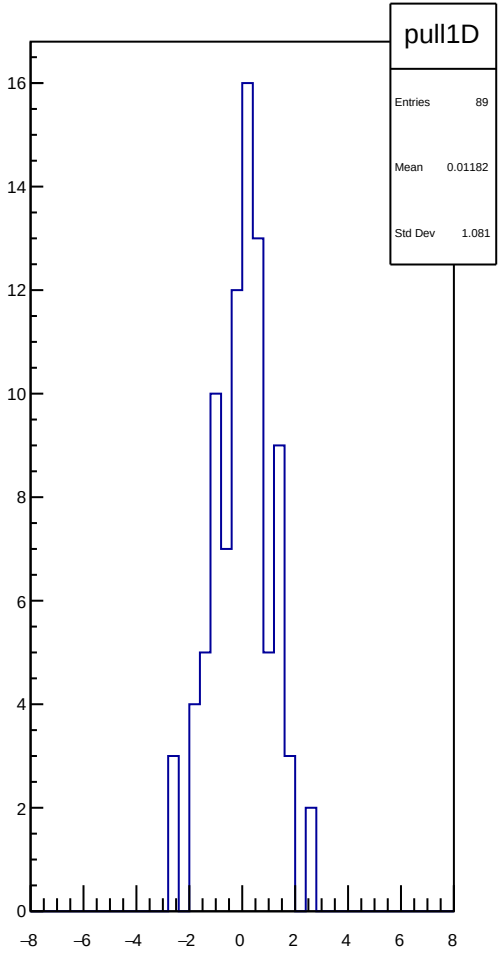

pull1D
Entries 89
Mean 0.008047
Std Dev 1.04

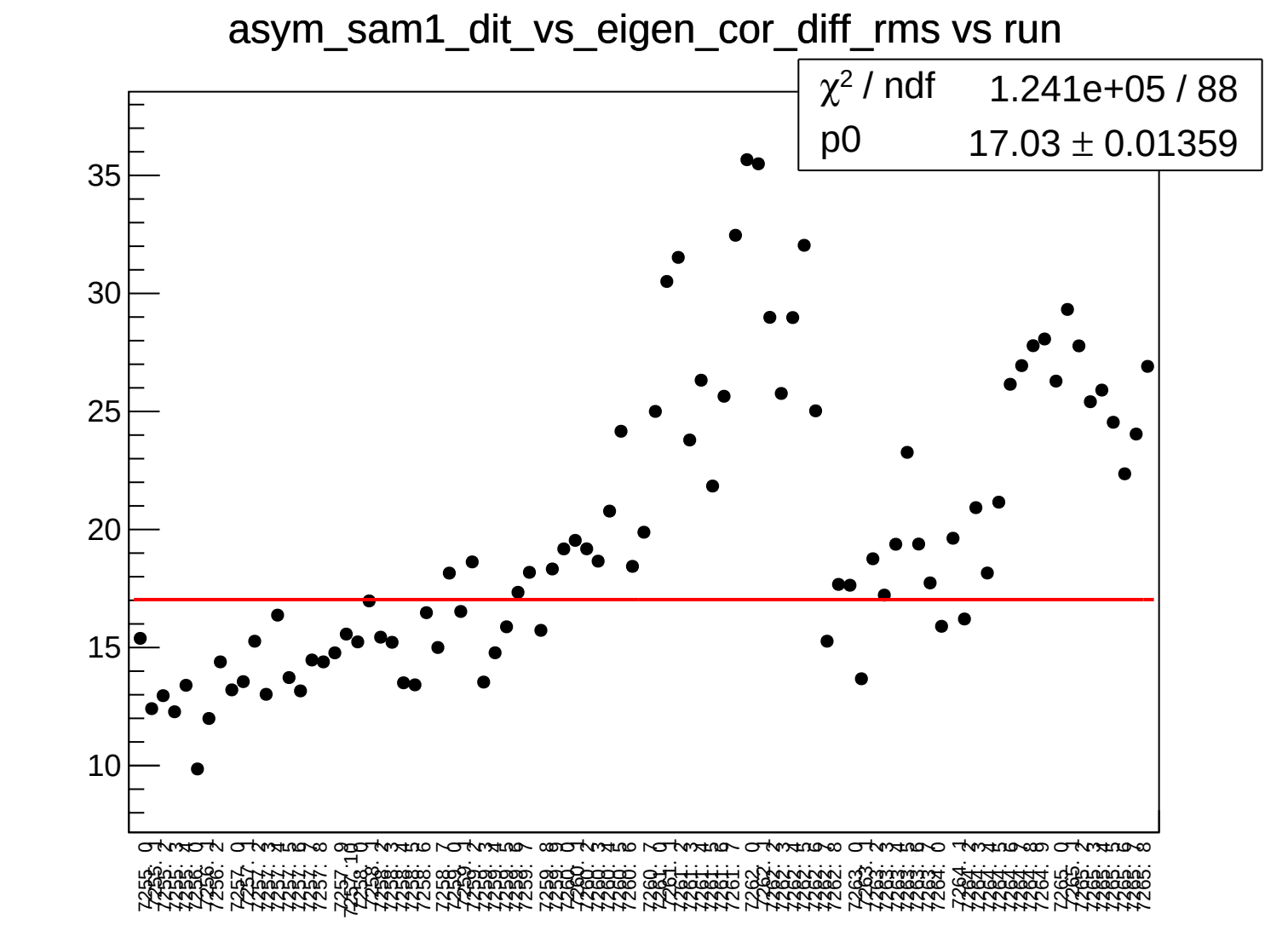

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.599e+05 / 88
p0 8.731e−12 ± 1.018e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

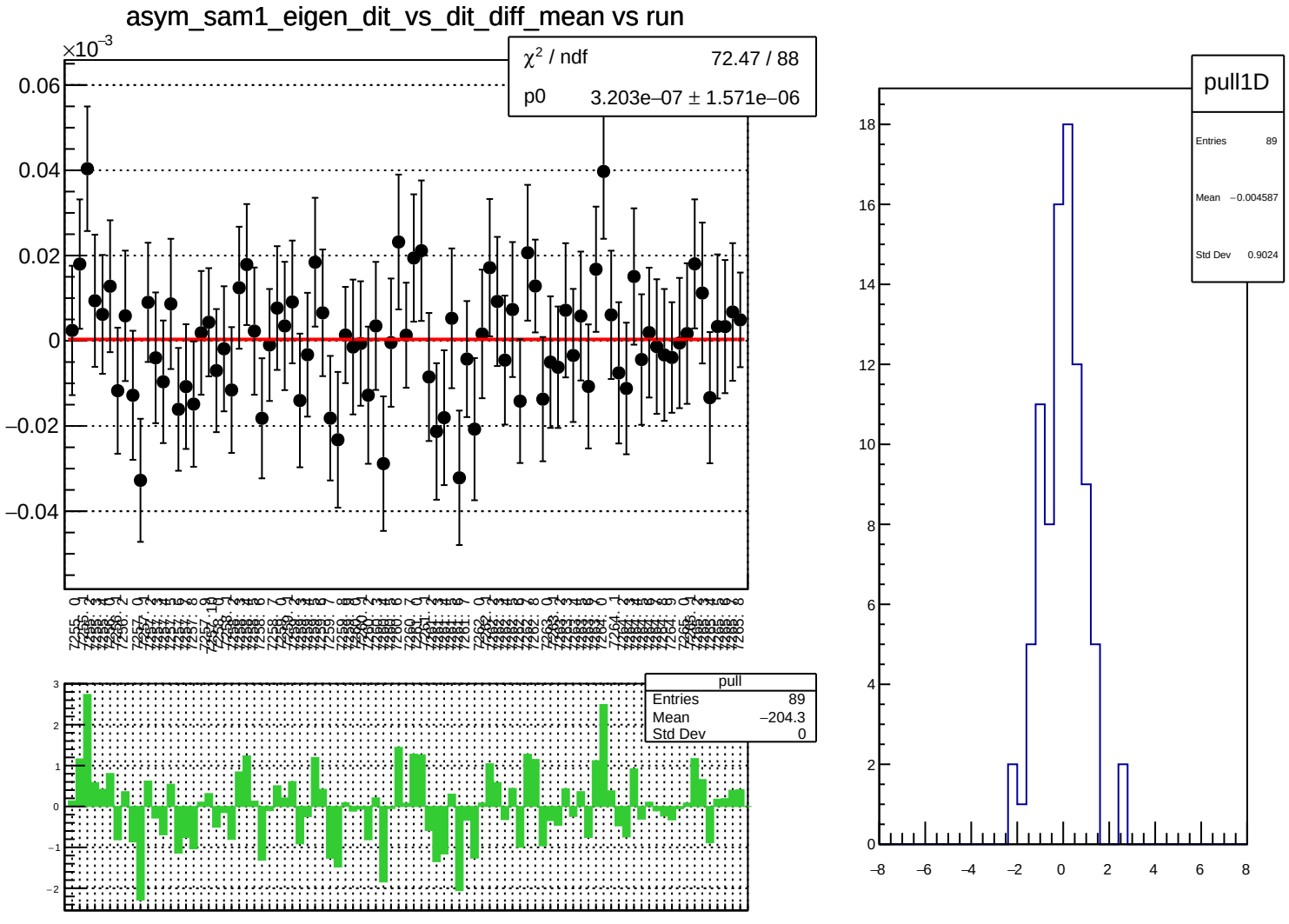

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 88
p0 −0.0003851 ± 0.01922
pull
Entries 89
Mean 197.6
Std Dev 0
pull1D
Entries 89
Mean 0.01182
Std Dev 1.081

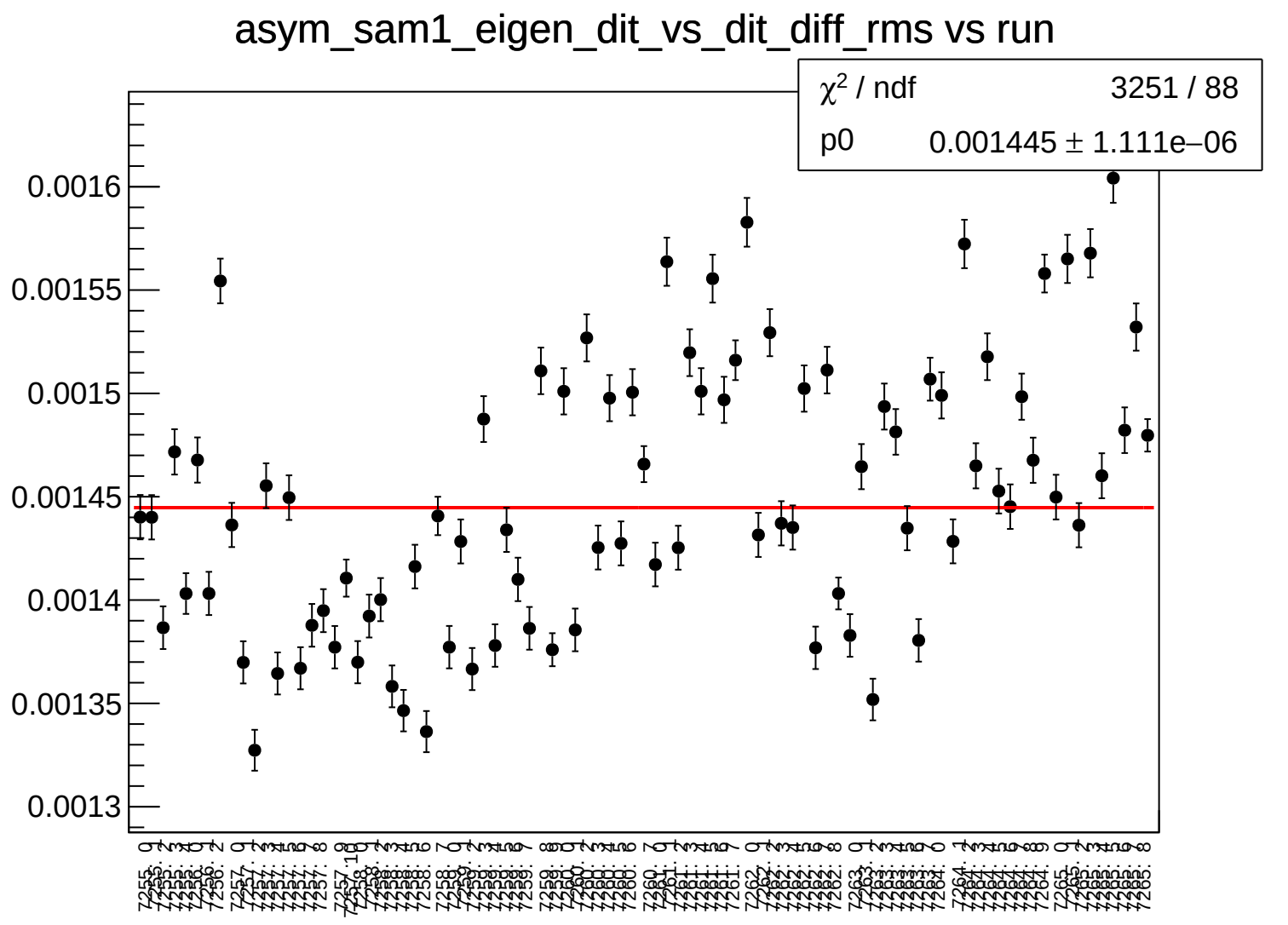

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.241e+05 / 88
p0 17.03 ± 0.01359
35
30
25
20
15
10

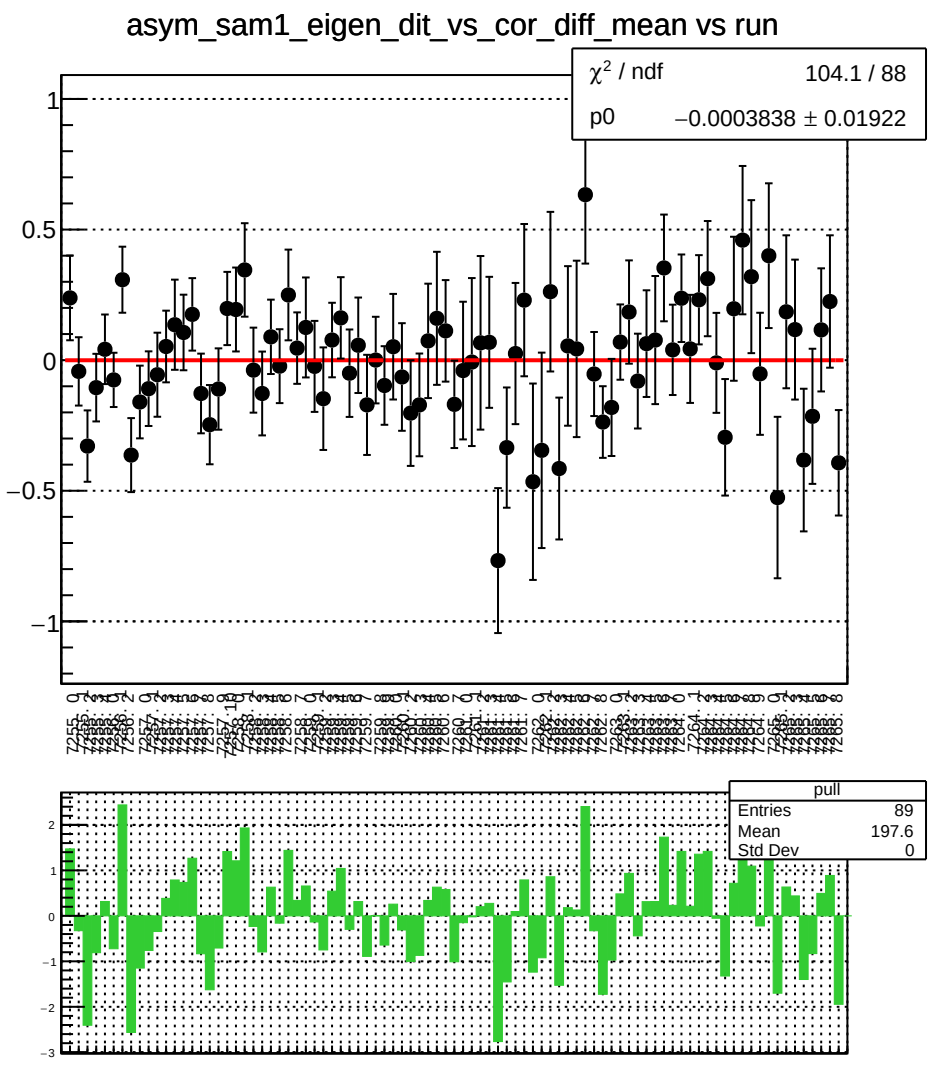

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 88
p0 −0.0003851 ± 0.01922
pull
Entries 89
Mean 197.6
Std Dev 0

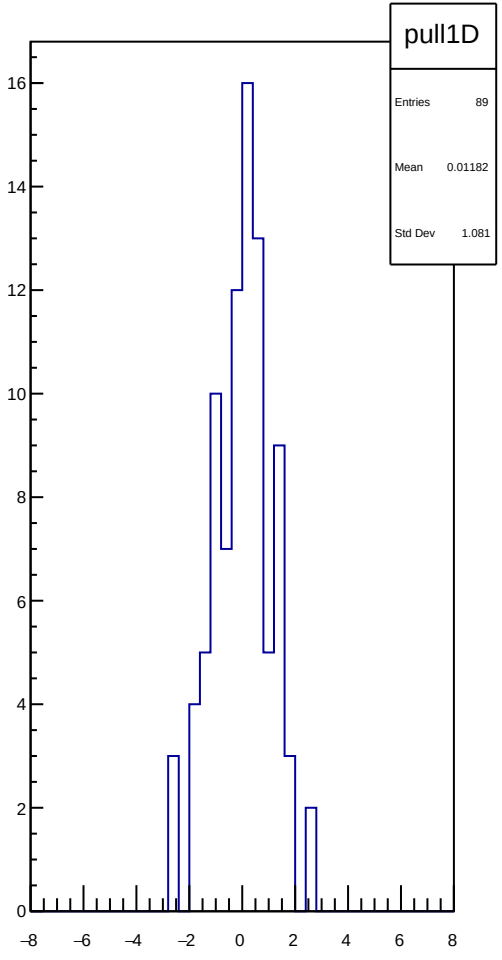

pull1D
Entries 89
Mean 0.01182
Std Dev 1.081

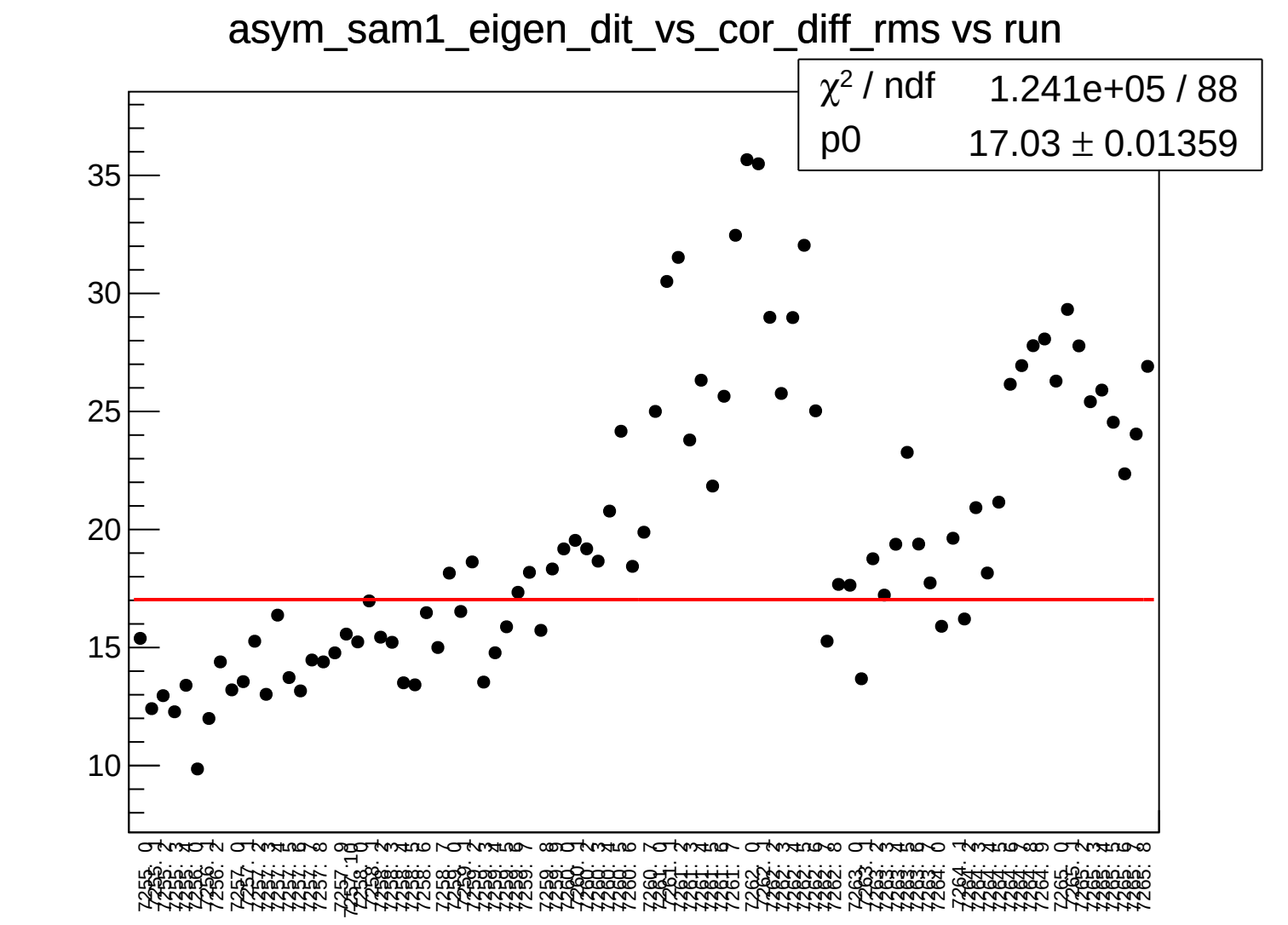

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.241e+05 / 88
p0 17.03 ± 0.01359
35
30
25
20
15
10

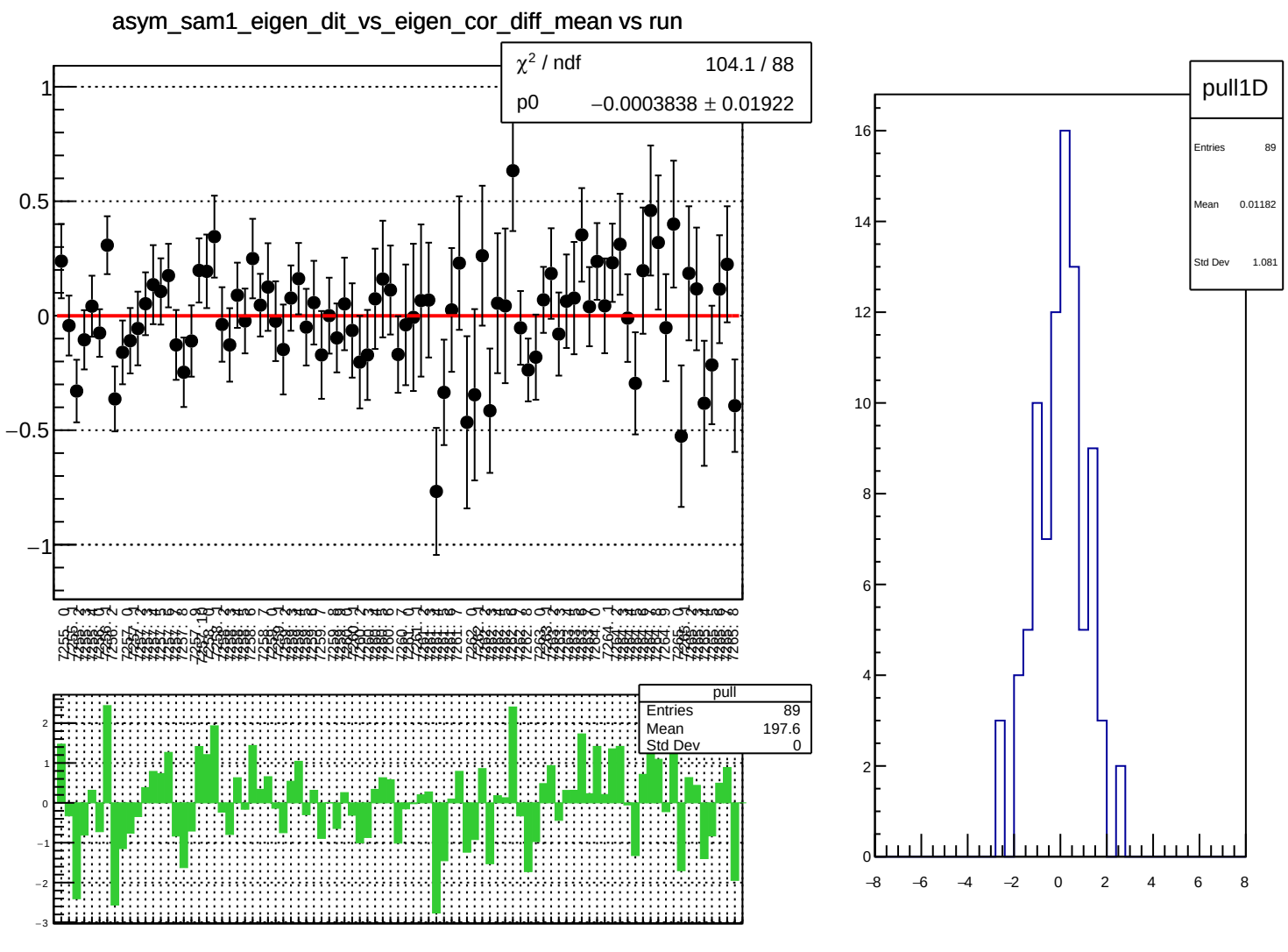

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.47 / 88
p0 3.203e−07 ± 1.571e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean −204.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.004587
Std Dev 0.9024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

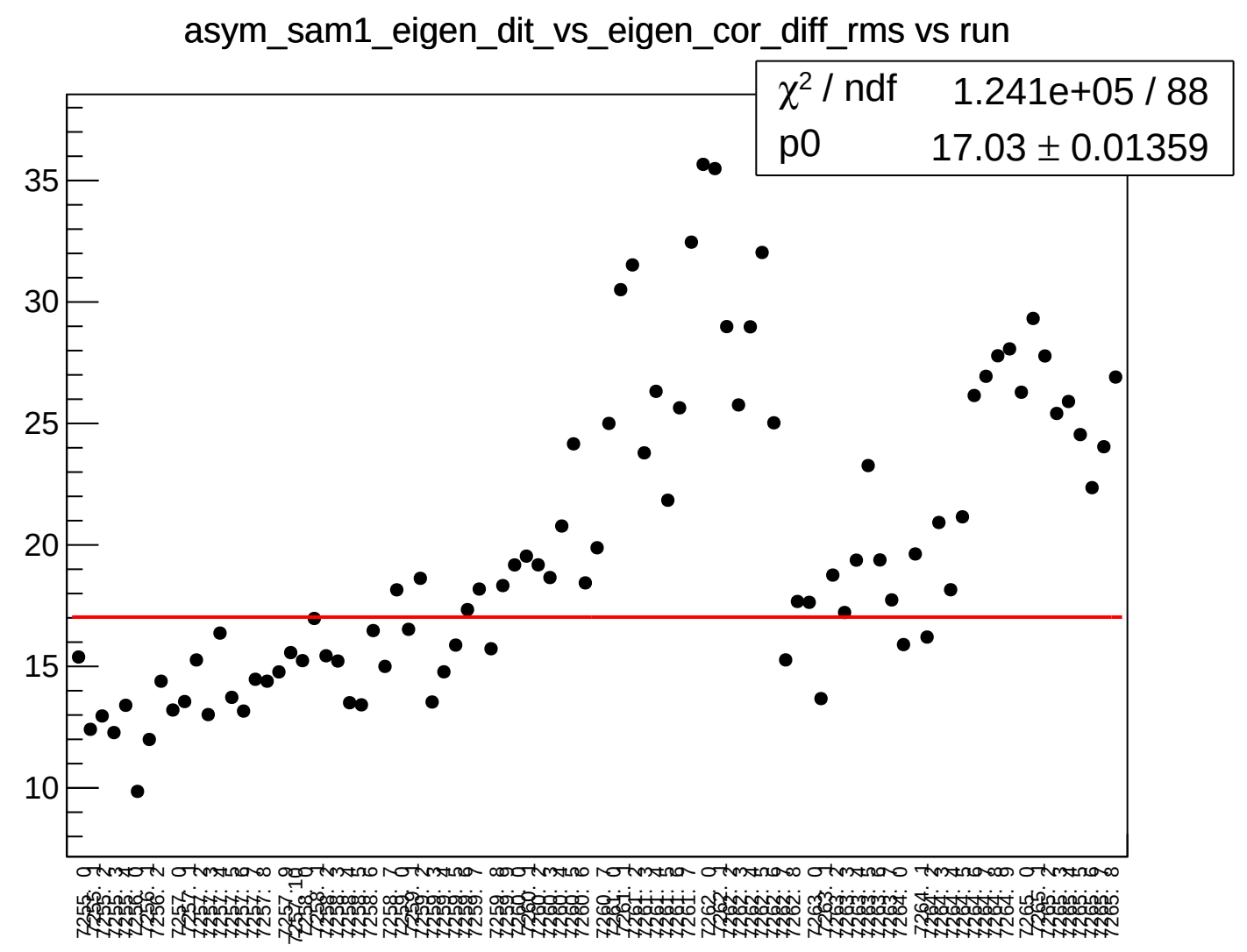

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3251 / 88
p0 0.001445 ± 1.111e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013

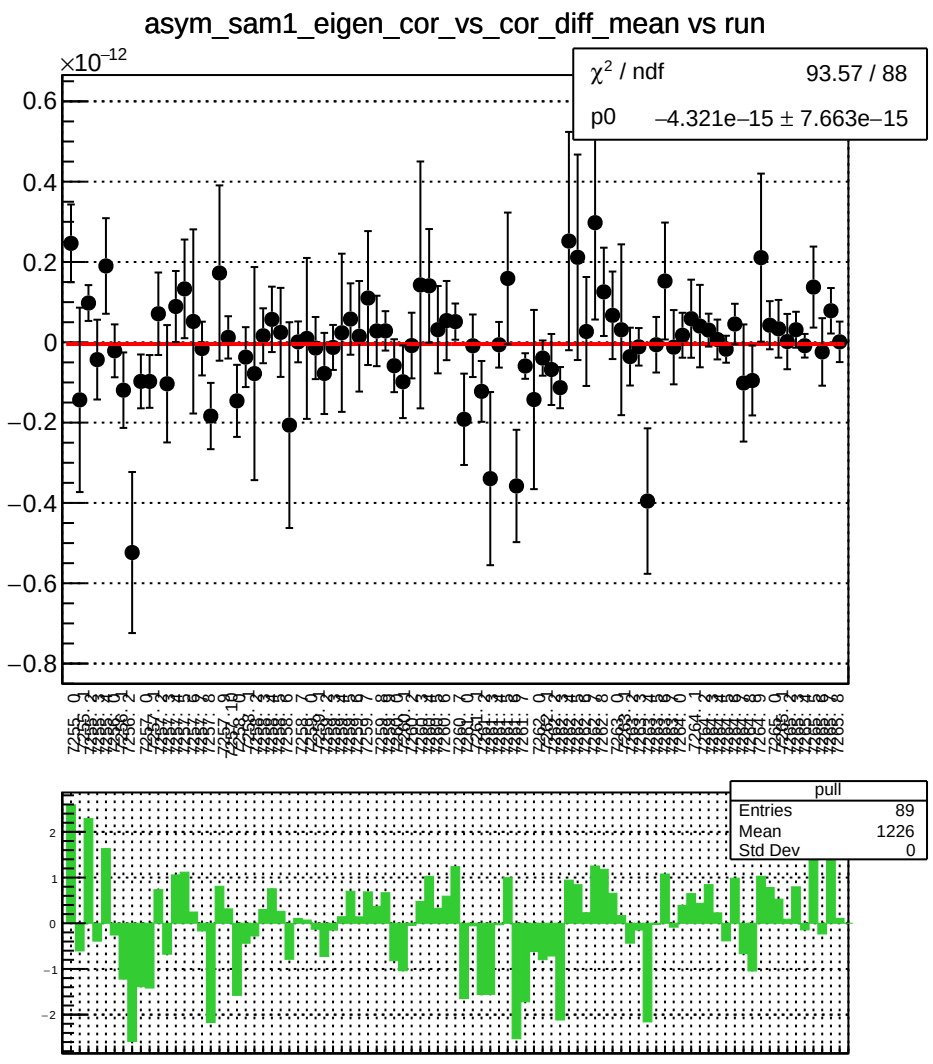

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 88
p0 −0.0003838 ± 0.01922
pull
Entries 89
Mean 197.6
Std Dev 0

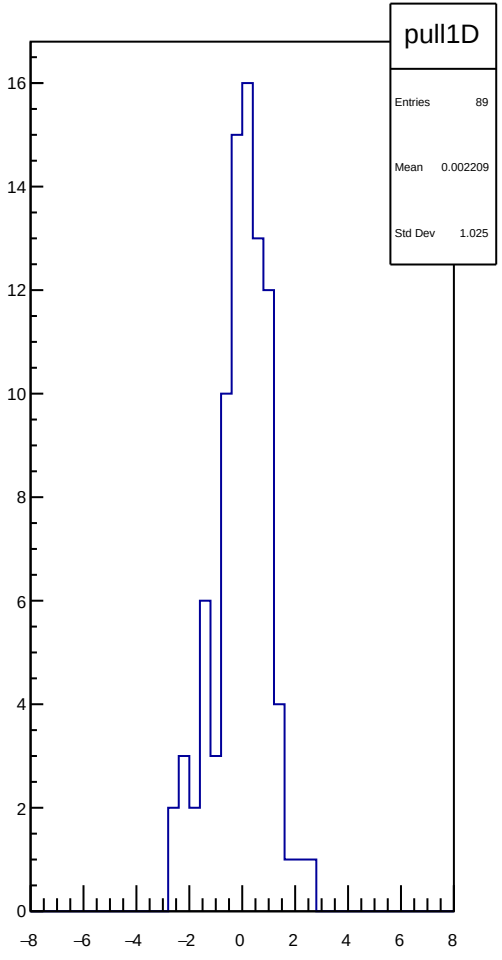

pull1D
Entries 89
Mean 0.01182
Std Dev 1.081

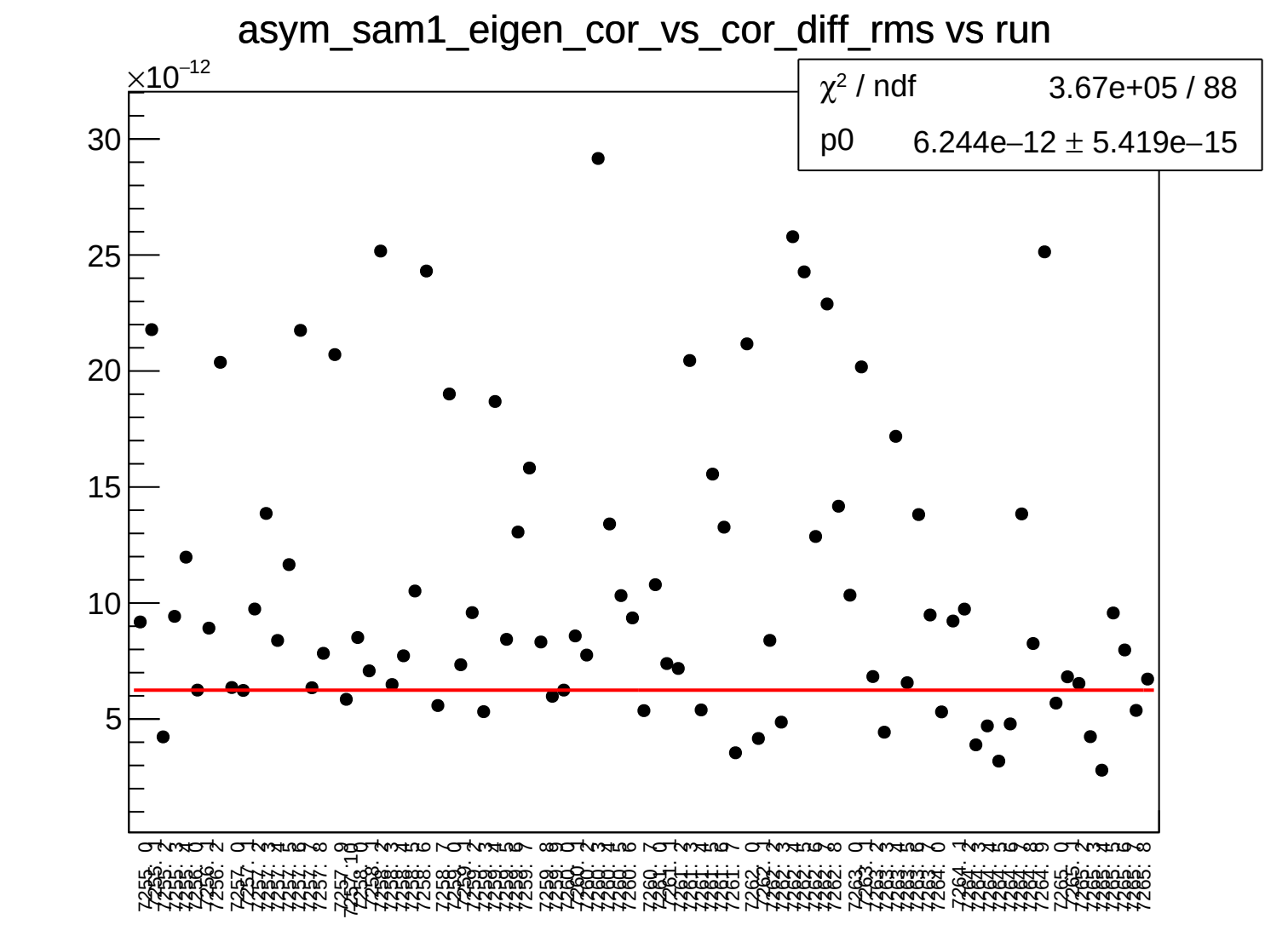

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.241e+05 / 88
p0 17.03 ± 0.01359
35
30
25
20
15
10

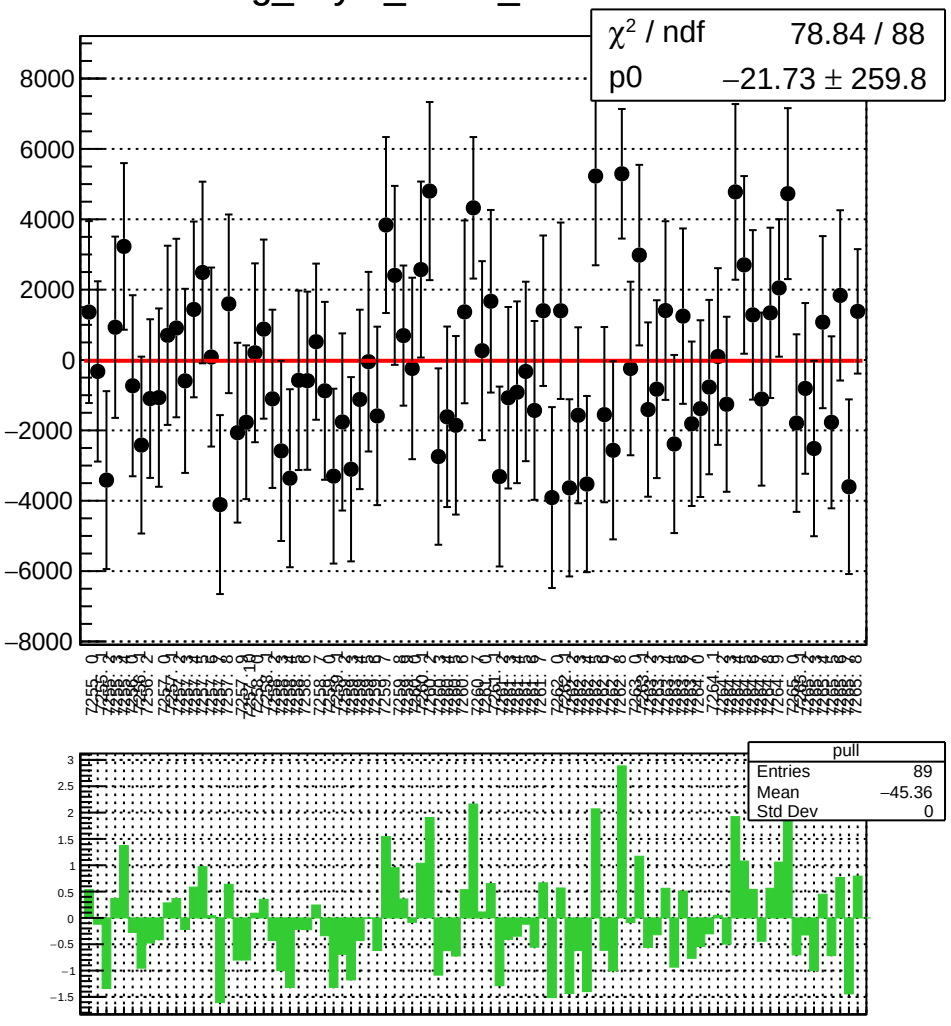

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 88
p0 −0.0003838 ± 0.01922
pull
Entries 89
Mean 197.6
Std Dev 0
pull1D
Entries 89
Mean 0.01182
Std Dev 1.081

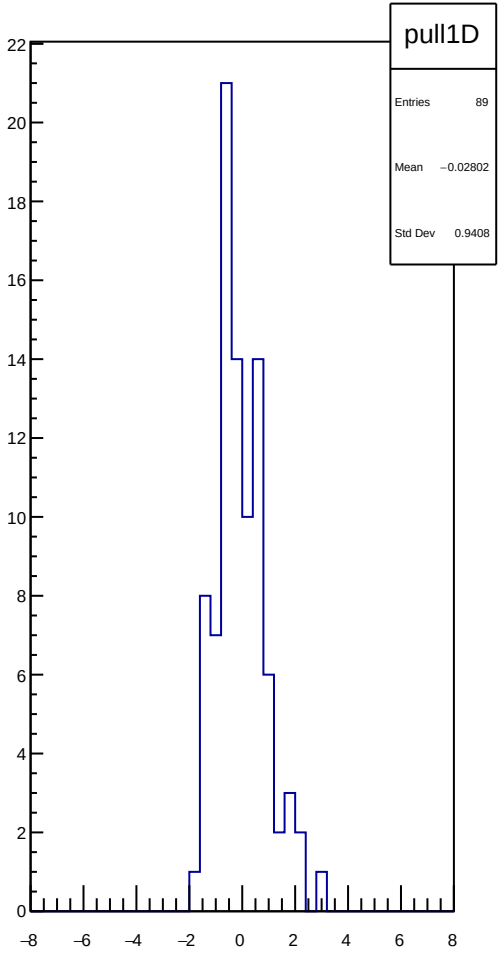

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.241e+05 / 88
p0 17.03 ± 0.01359
35
30
25
20
15
10

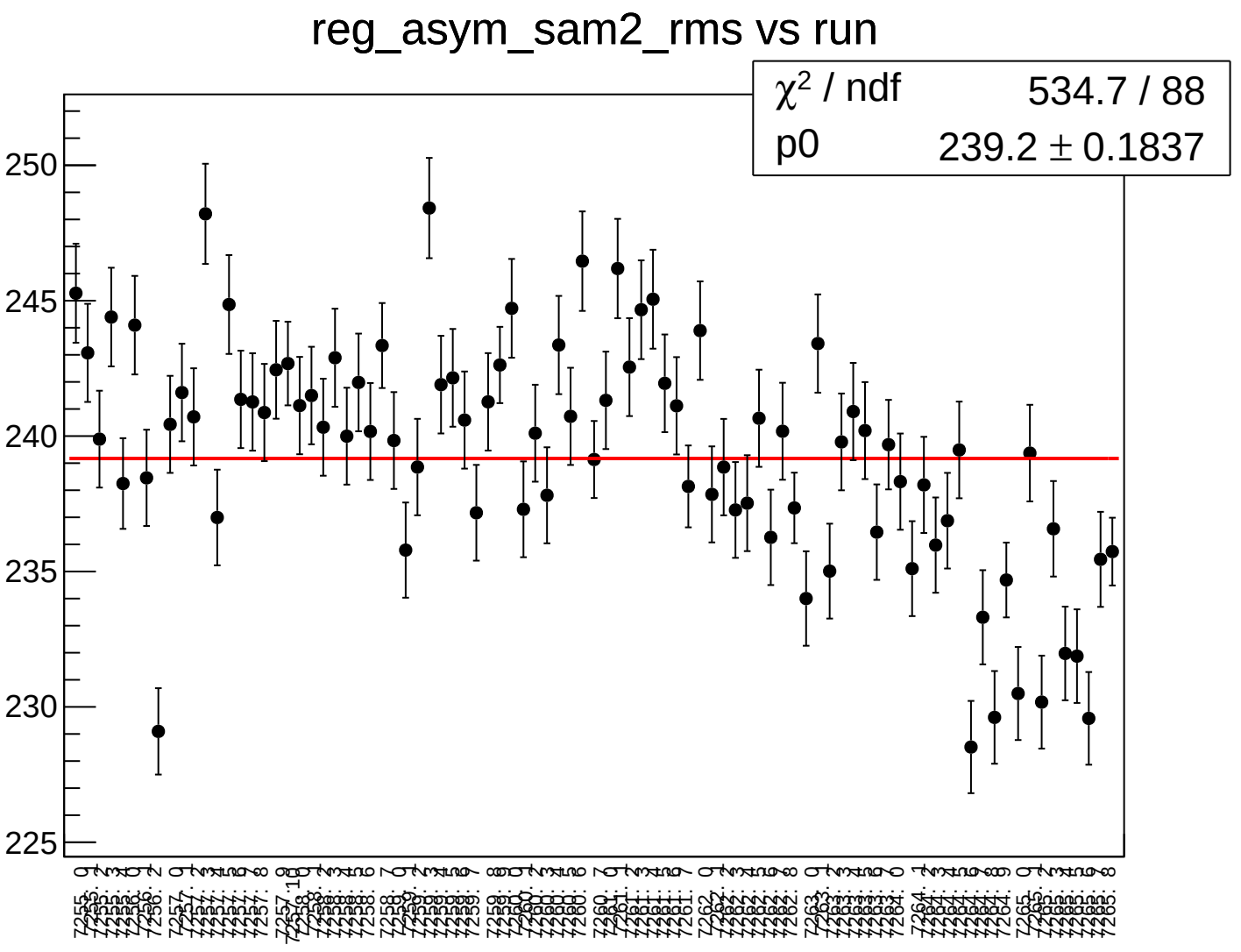

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 93.57 / 88
p0 −4.321e−15 ± 7.663e−15
pull
Entries 89
Mean 1226
Std Dev 0

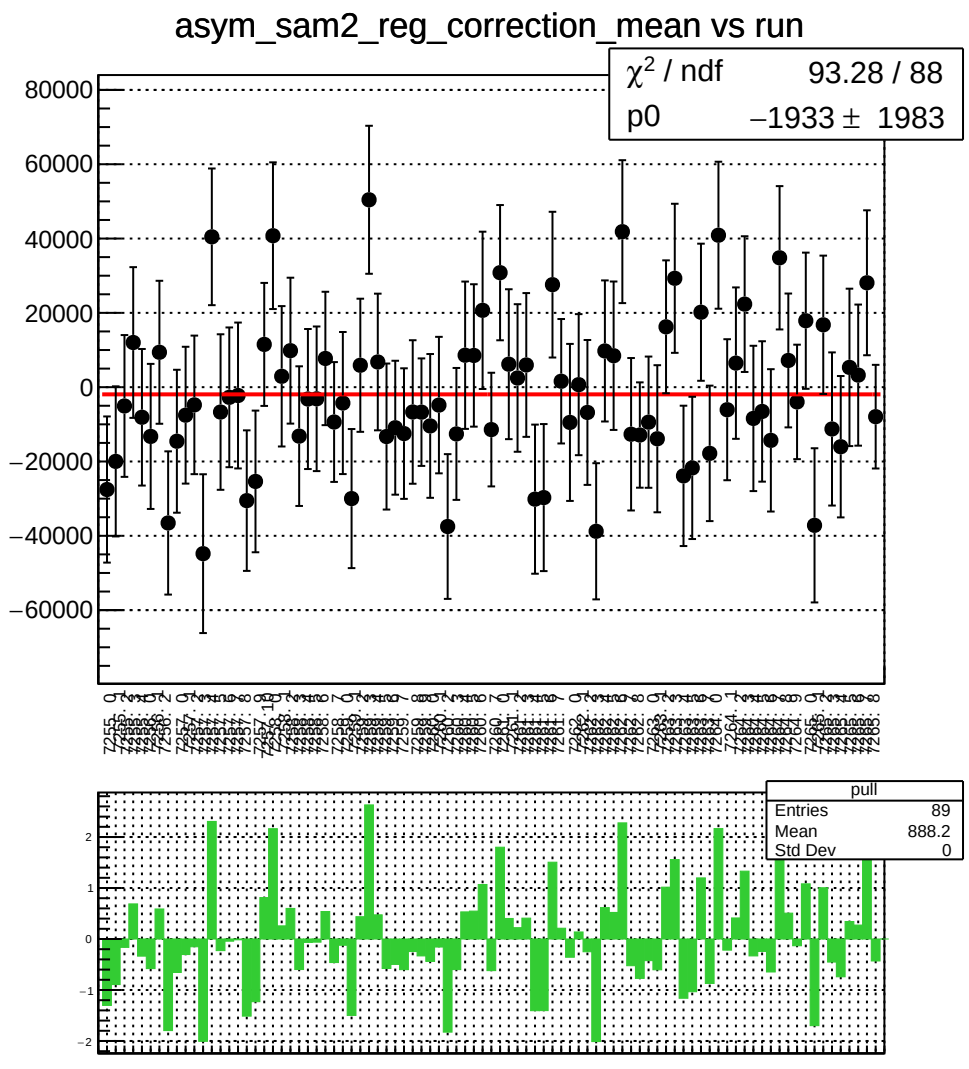

pull1D
Entries 89
Mean 0.002209
Std Dev 1.025

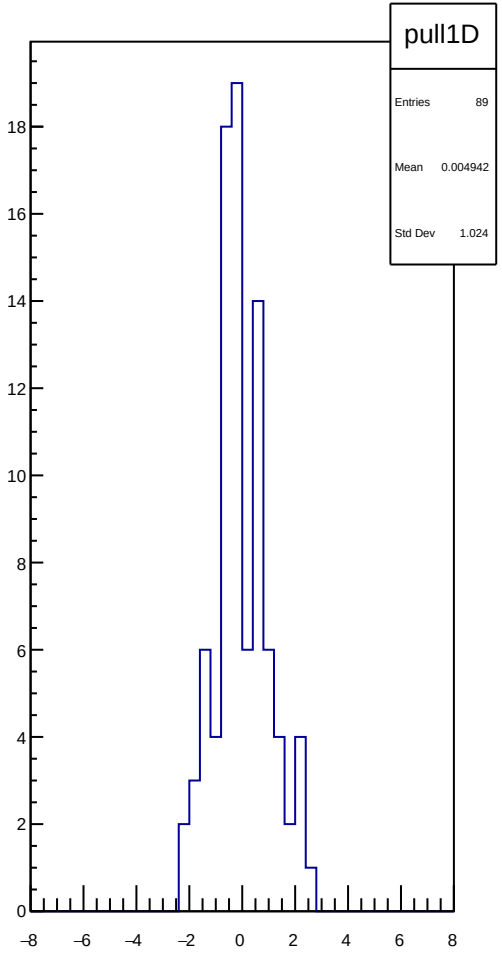

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.67e+05 / 88
p0 6.244e−12 ± 5.419e−15
30
25
20
15
10
5

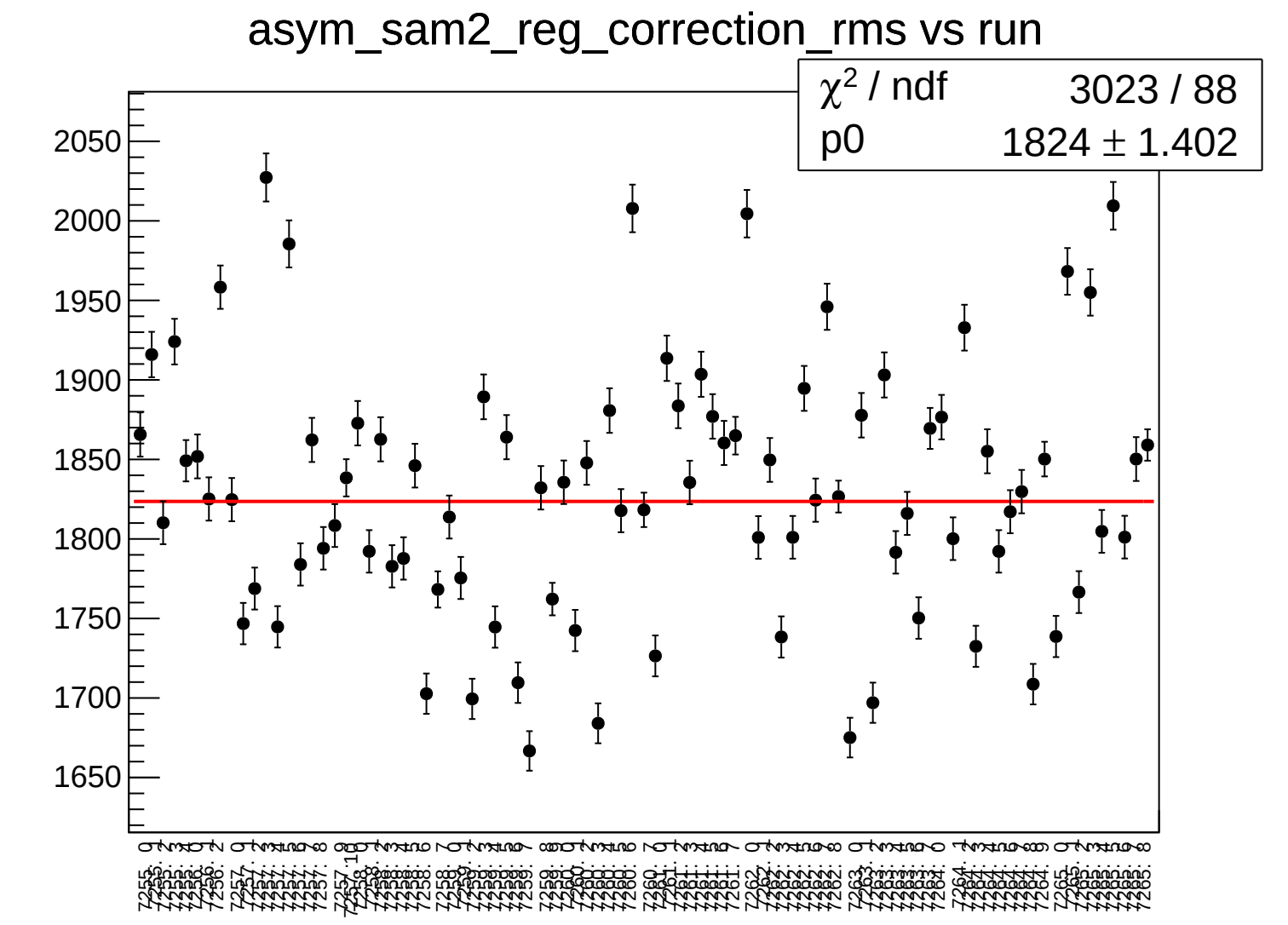

reg_asym_sam2_mean vs run
χ² / ndf 78.84 / 88
p0 −21.73 ± 259.8
pull
Entries 89
Mean −45.36
Std Dev 0

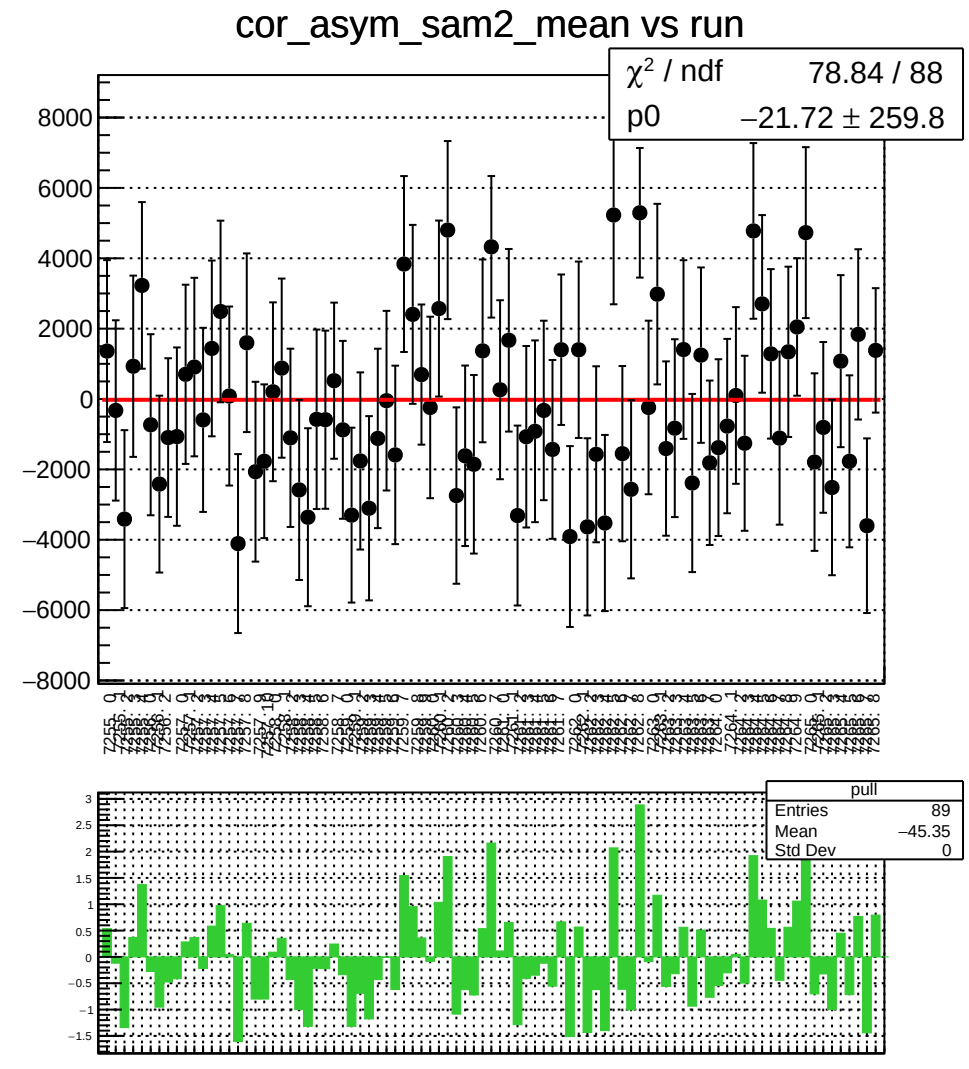

pull1D
Entries 89
Mean −0.02802
Std Dev 0.9408

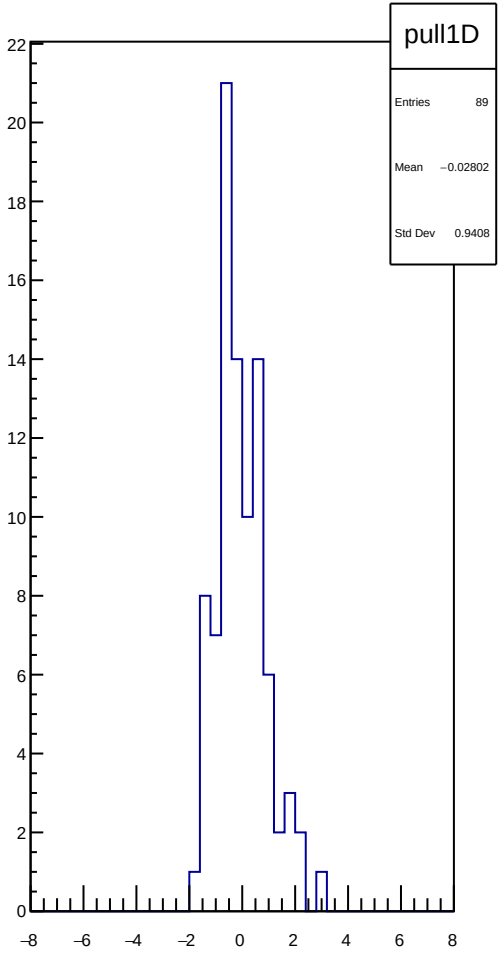

reg_asym_sam2_rms vs run
χ² / ndf 534.7 / 88
p0 239.2 ± 0.1837
250
245
240
235
230
225

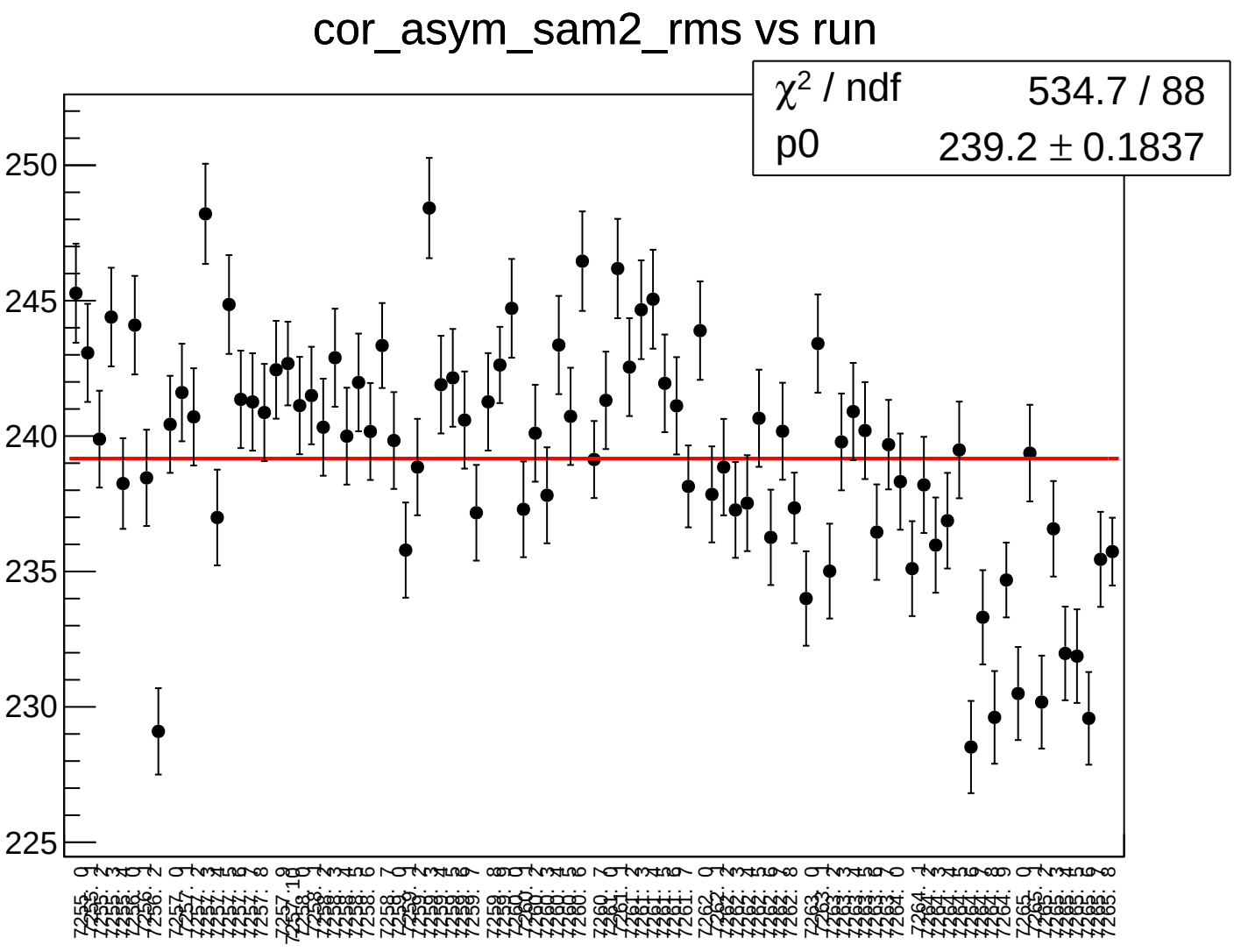

asym_sam2_reg_correction_mean vs run
χ² / ndf 93.28 / 88
p0 −1933 ± 1983
pull
Entries 89
Mean 888.2
Std Dev 0

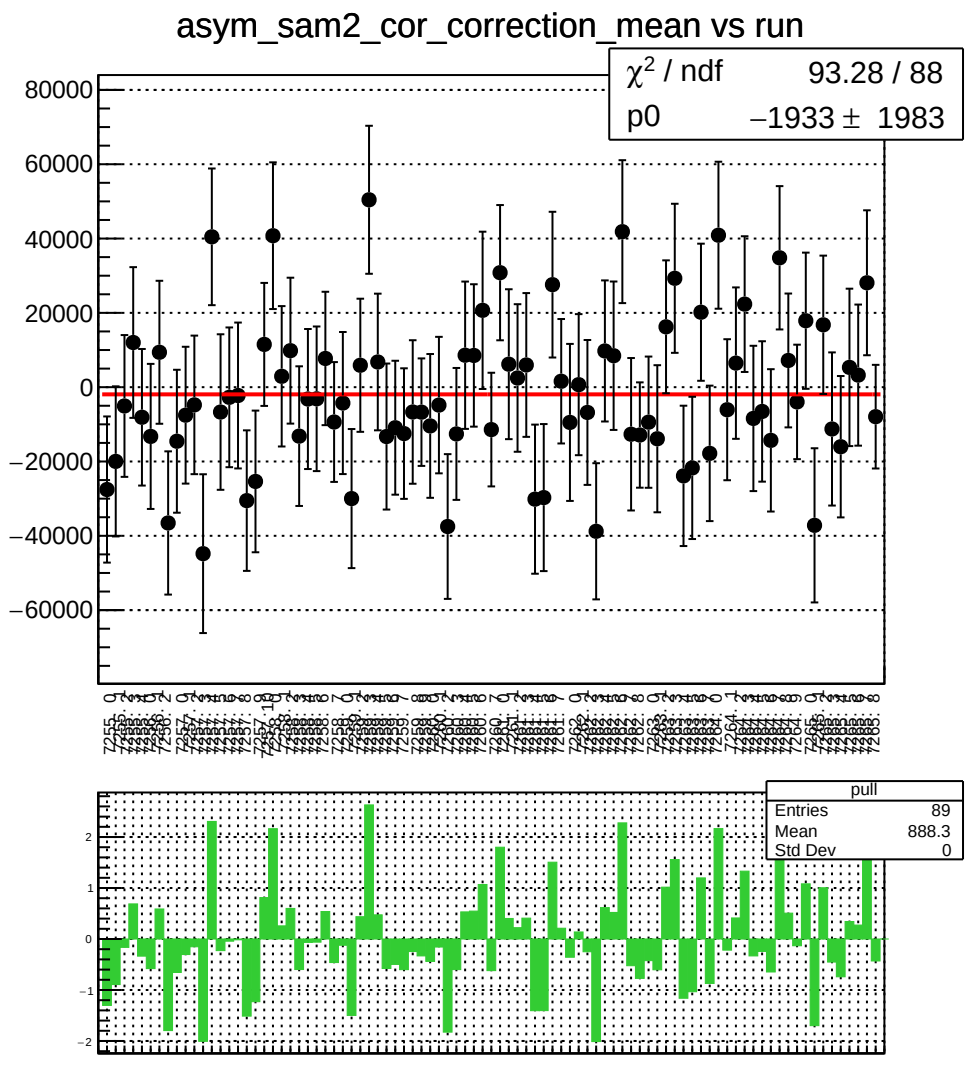

pull1D
Entries 89
Mean 0.004942
Std Dev 1.024

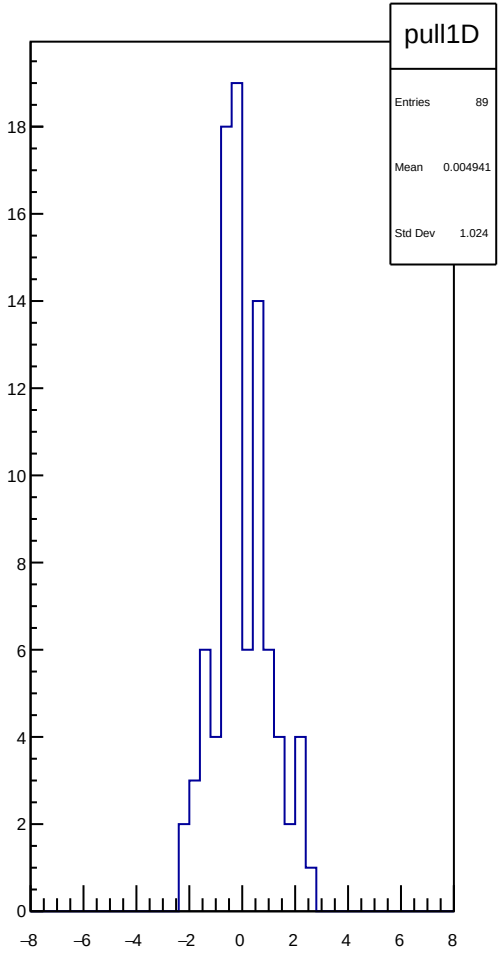

asym_sam2_reg_correction_rms vs run
χ² / ndf 3023 / 88
p0 1824 ± 1.402
2050
2000
1950
1900
1850
1800
1750
1700
1650

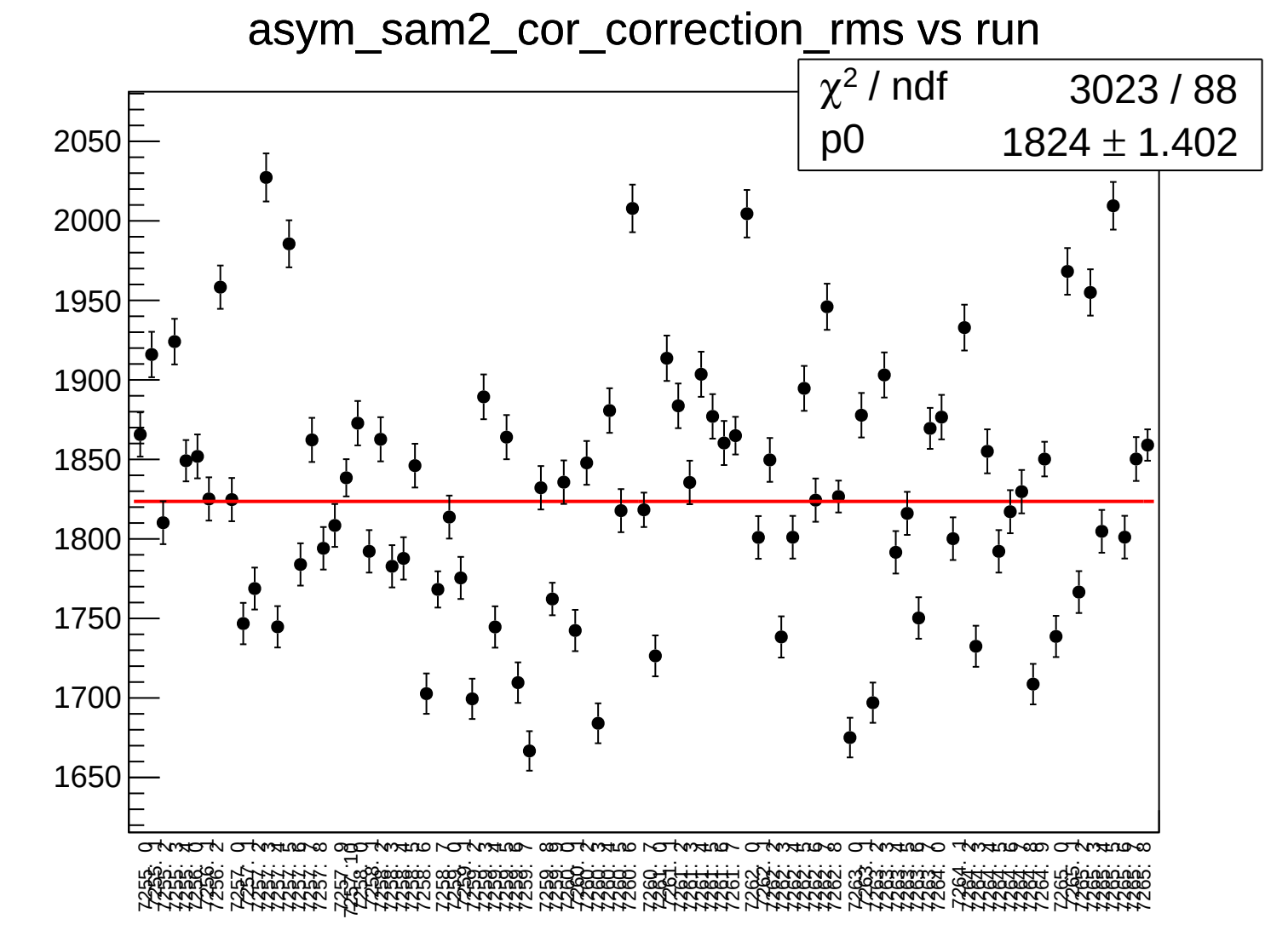

cor_asym_sam2_mean vs run
χ² / ndf 78.84 / 88
p0 −21.72 ± 259.8
pull
Entries 89
Mean −45.35
Std Dev 0

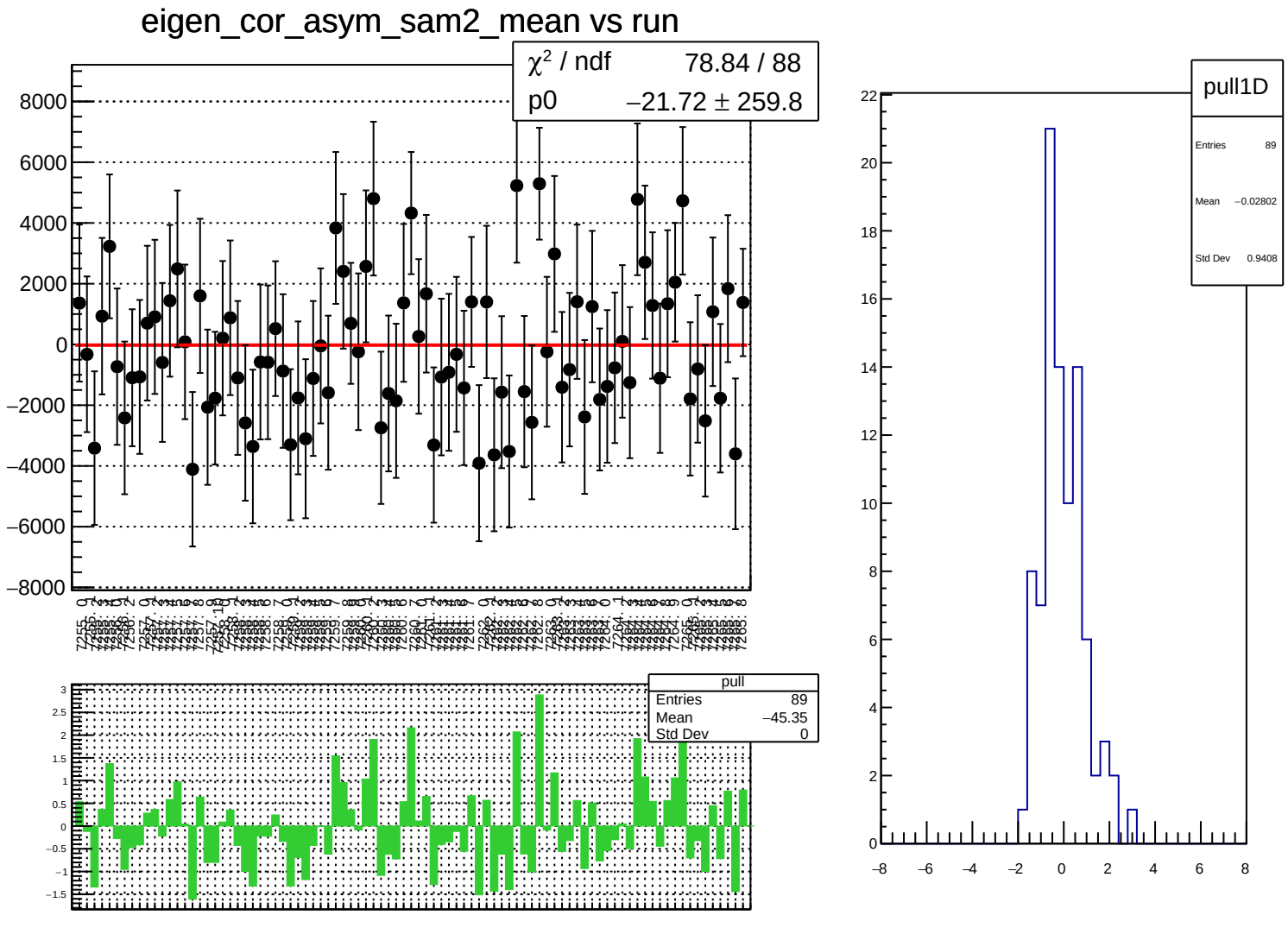

pull1D
Entries 89
Mean −0.02802
Std Dev 0.9408

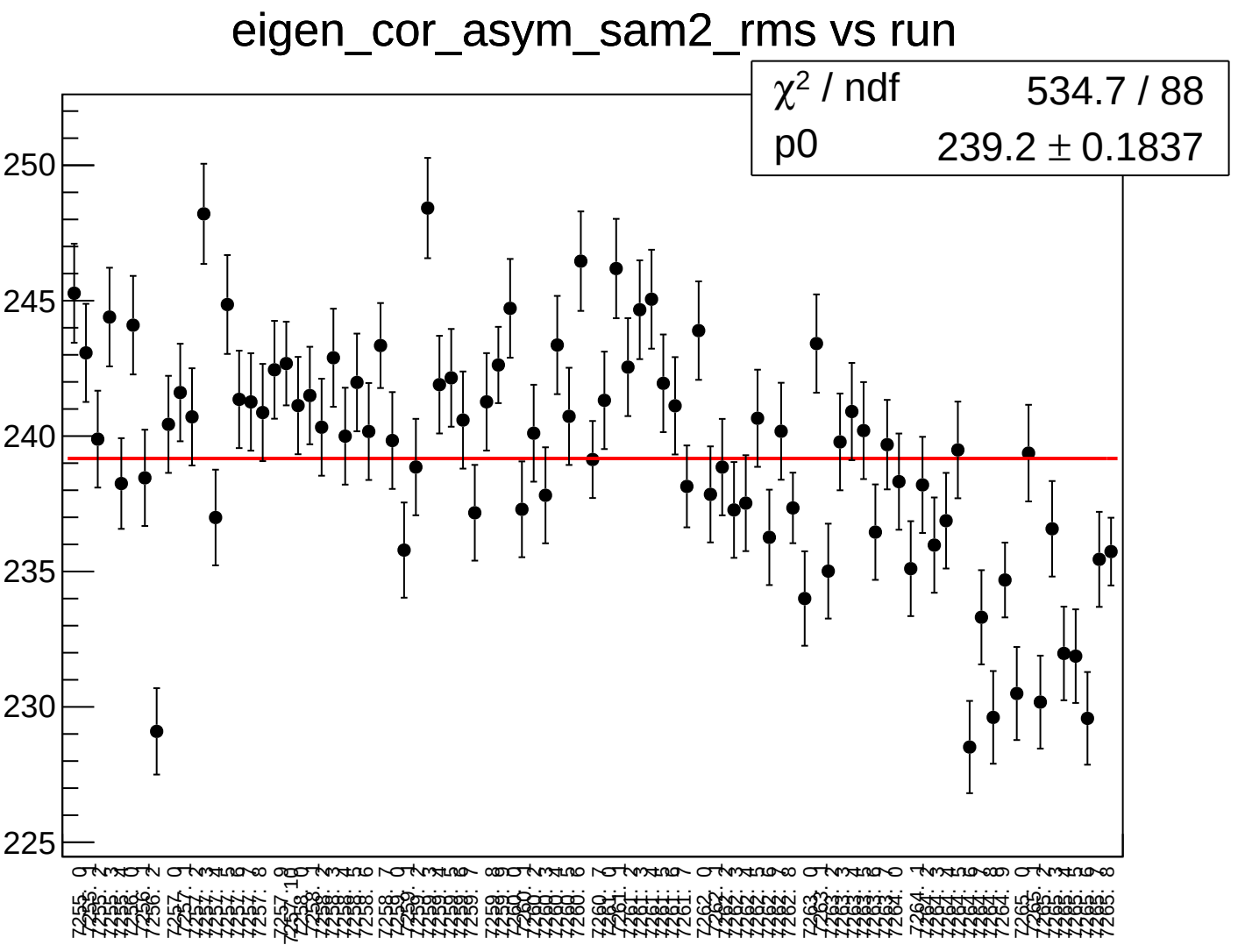

cor_asym_sam2_rms vs run
χ² / ndf 534.7 / 88
p0 239.2 ± 0.1837
250
245
240
235
230
225

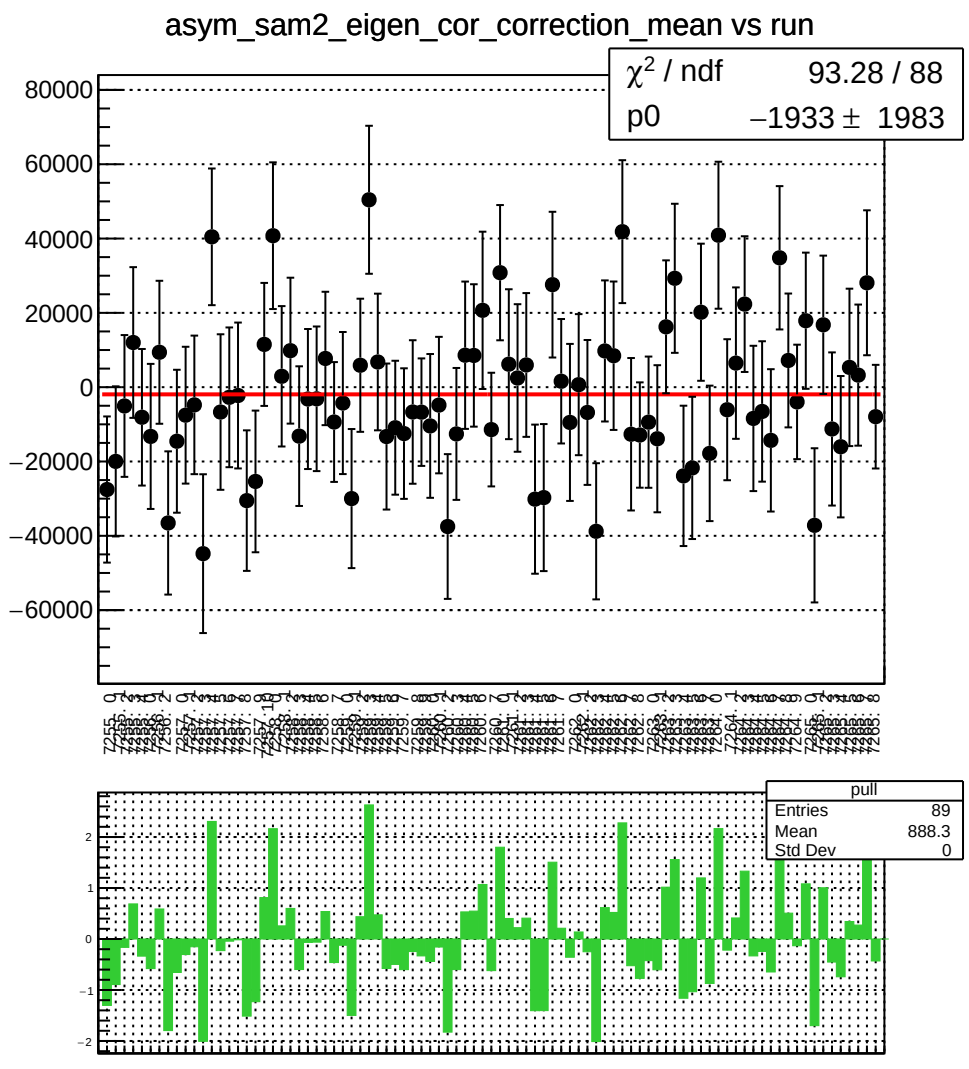

asym_sam2_cor_correction_mean vs run
χ² / ndf 93.28 / 88
p0 −1933 ± 1983
pull
Entries 89
Mean 888.3
Std Dev 0

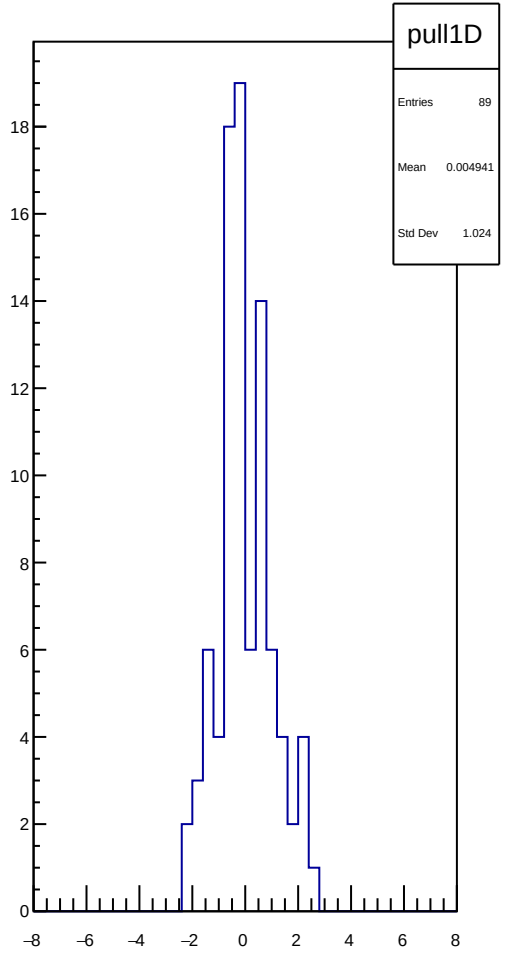

pull1D
Entries 89
Mean 0.004941
Std Dev 1.024

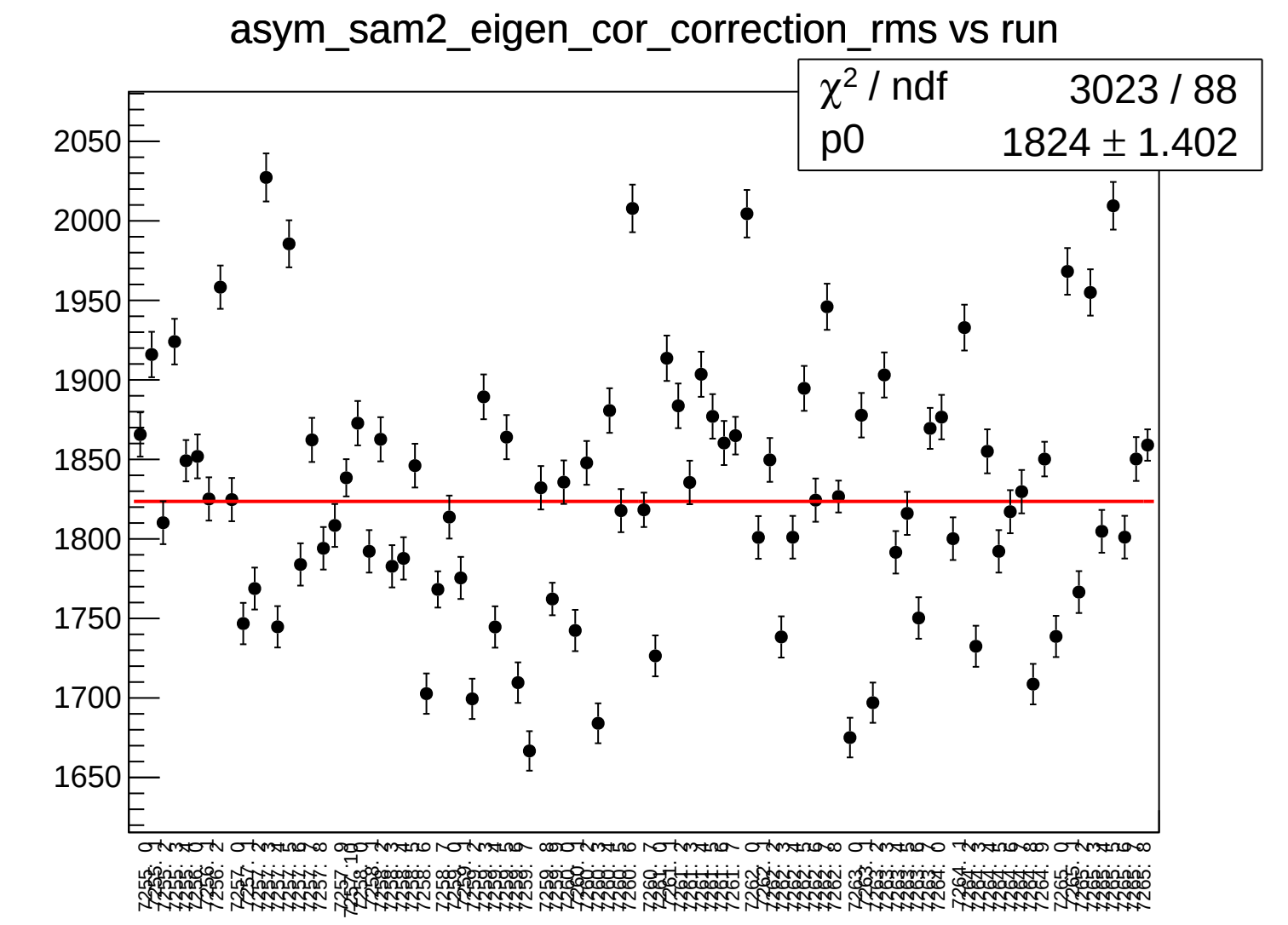

asym_sam2_cor_correction_rms vs run
χ² / ndf 3023 / 88
p0 1824 ± 1.402
2050
2000
1950
1900
1850
1800
1750
1700
1650

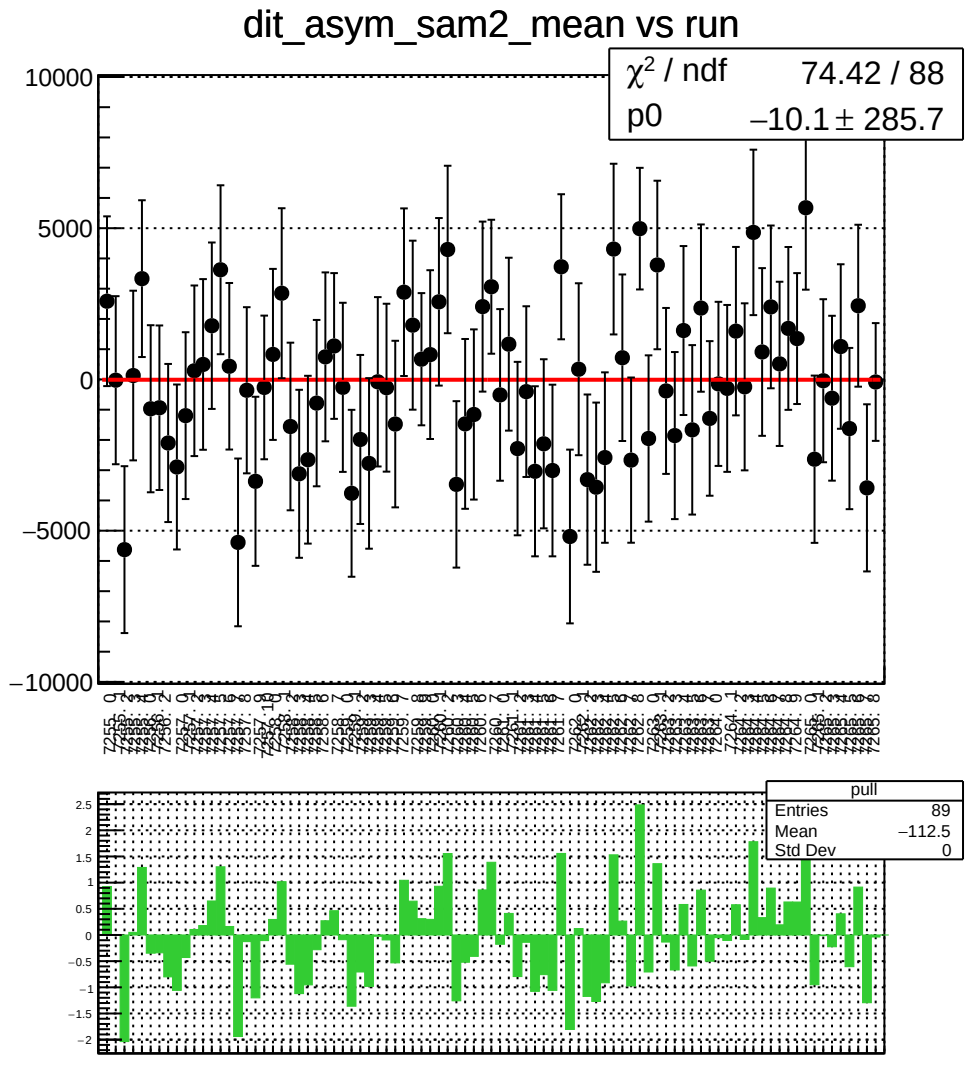

eigen_cor_asym_sam2_mean vs run
χ² / ndf 78.84 / 88
p0 −21.72 ± 259.8
pull
Entries 89
Mean −45.35
Std Dev 0
pull1D
Entries 89
Mean −0.02802
Std Dev 0.9408

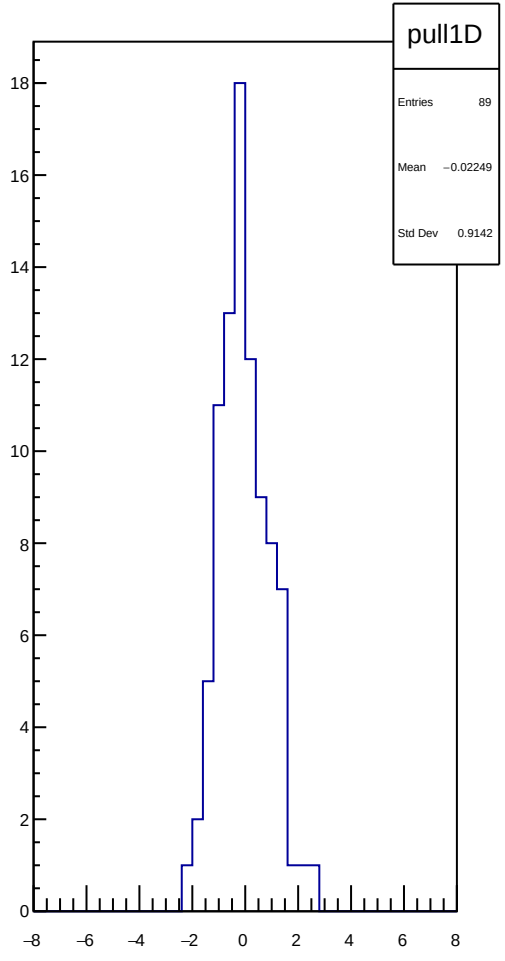

eigen_cor_asym_sam2_rms vs run
χ² / ndf 534.7 / 88
p0 239.2 ± 0.1837
250
245
240
235
230
225

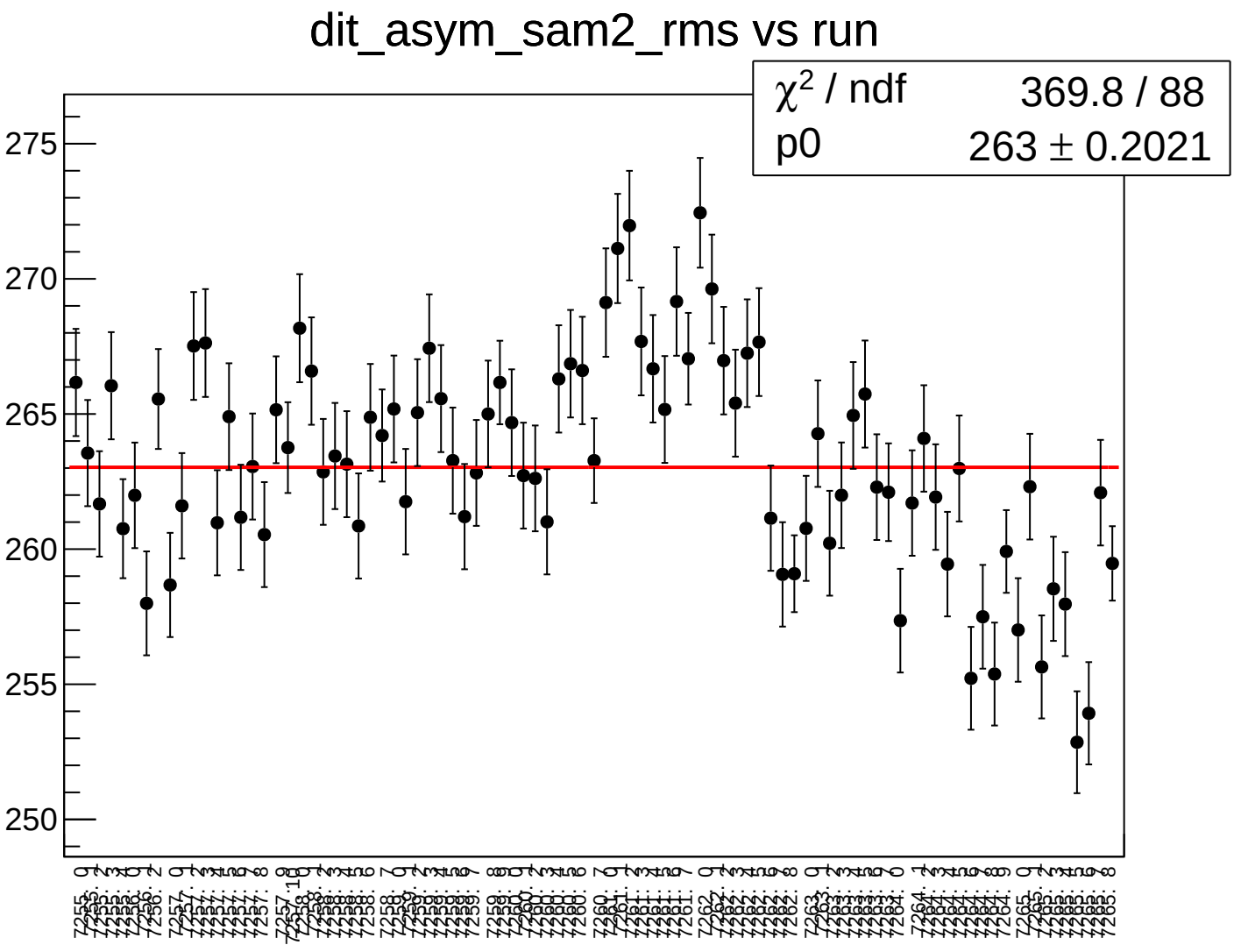

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 93.28 / 88
p0 −1933 ± 1983
pull
Entries 89
Mean 888.3
Std Dev 0

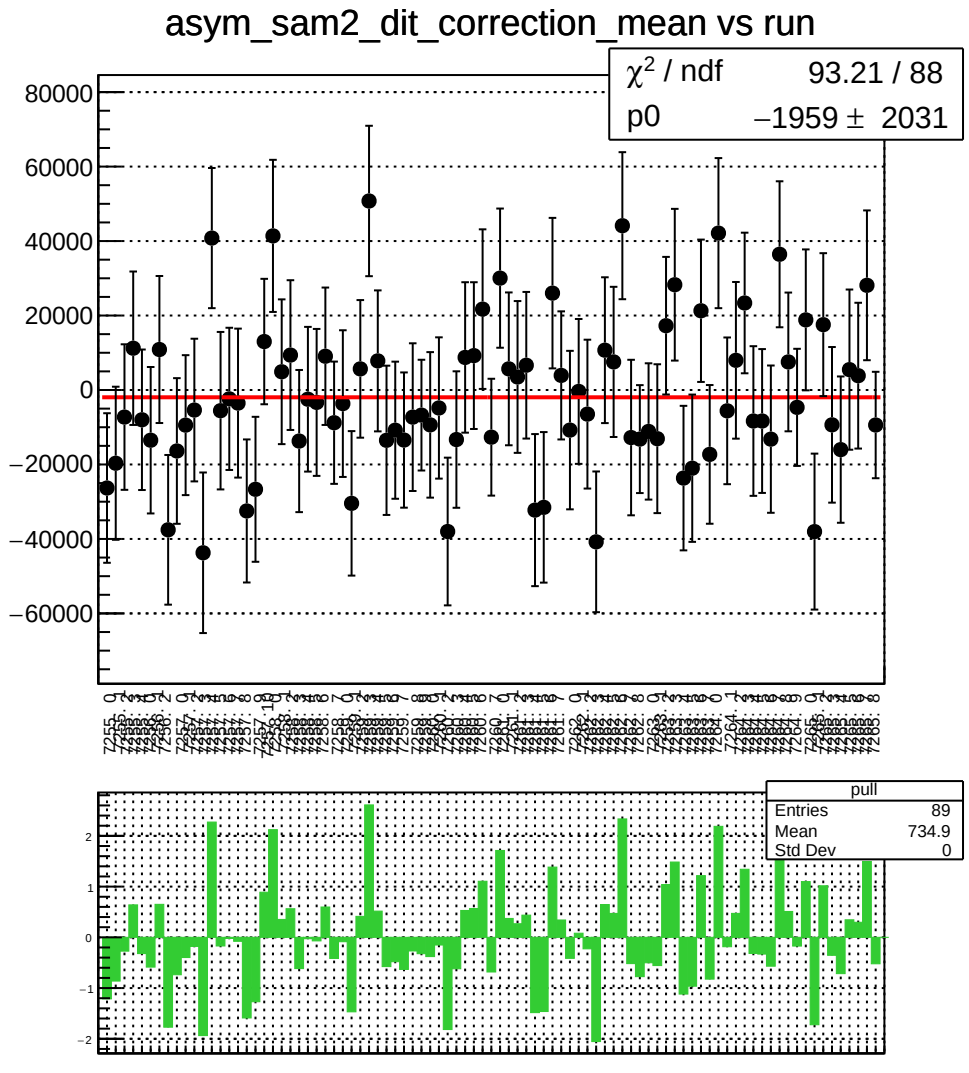

pull1D
Entries 89
Mean 0.004941
Std Dev 1.024

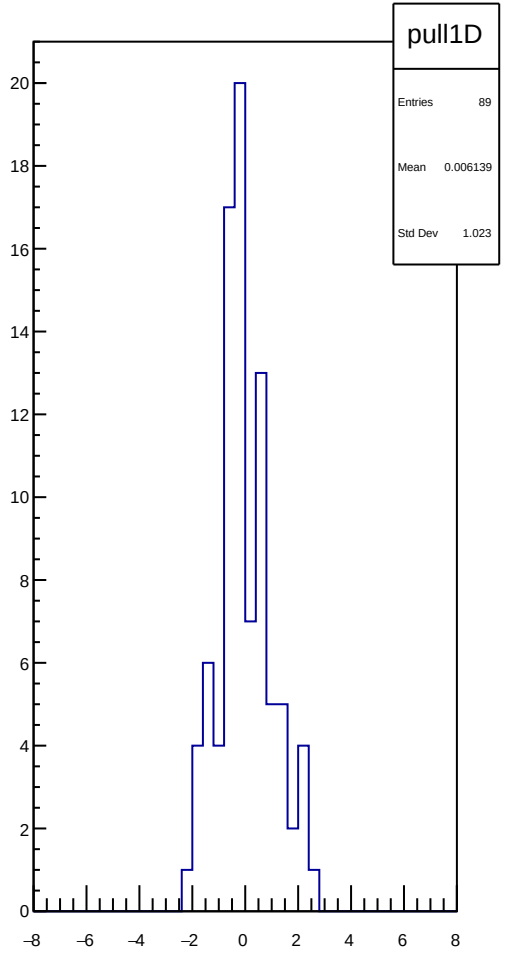

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 3023 / 88
p0 1824 ± 1.402
2050
2000
1950
1900
1850
1800
1750
1700
1650

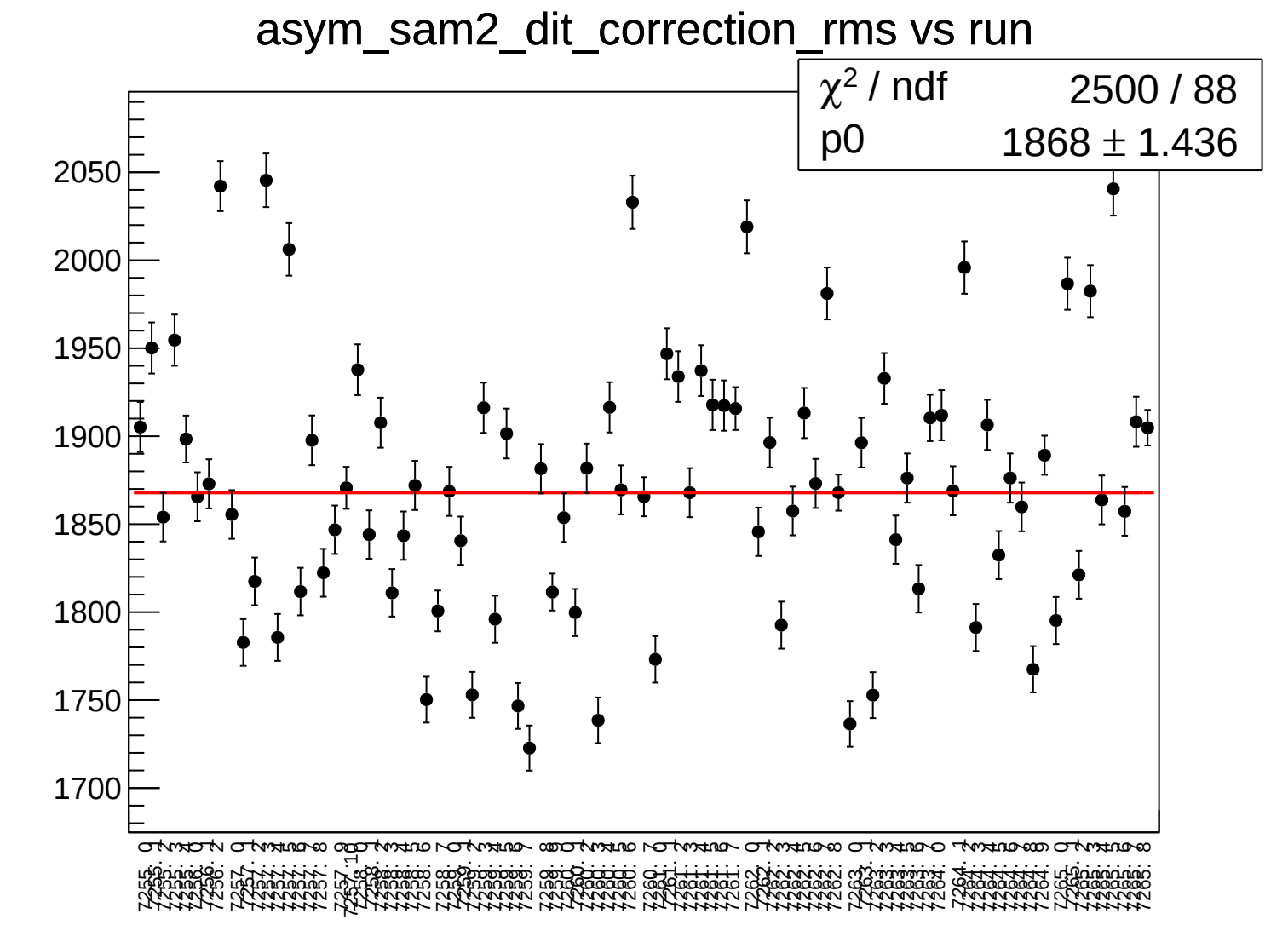

dit_asym_sam2_mean vs run
χ² / ndf 74.42 / 88
p0 −10.1 ± 285.7
pull
Entries 89
Mean −112.5
Std Dev 0

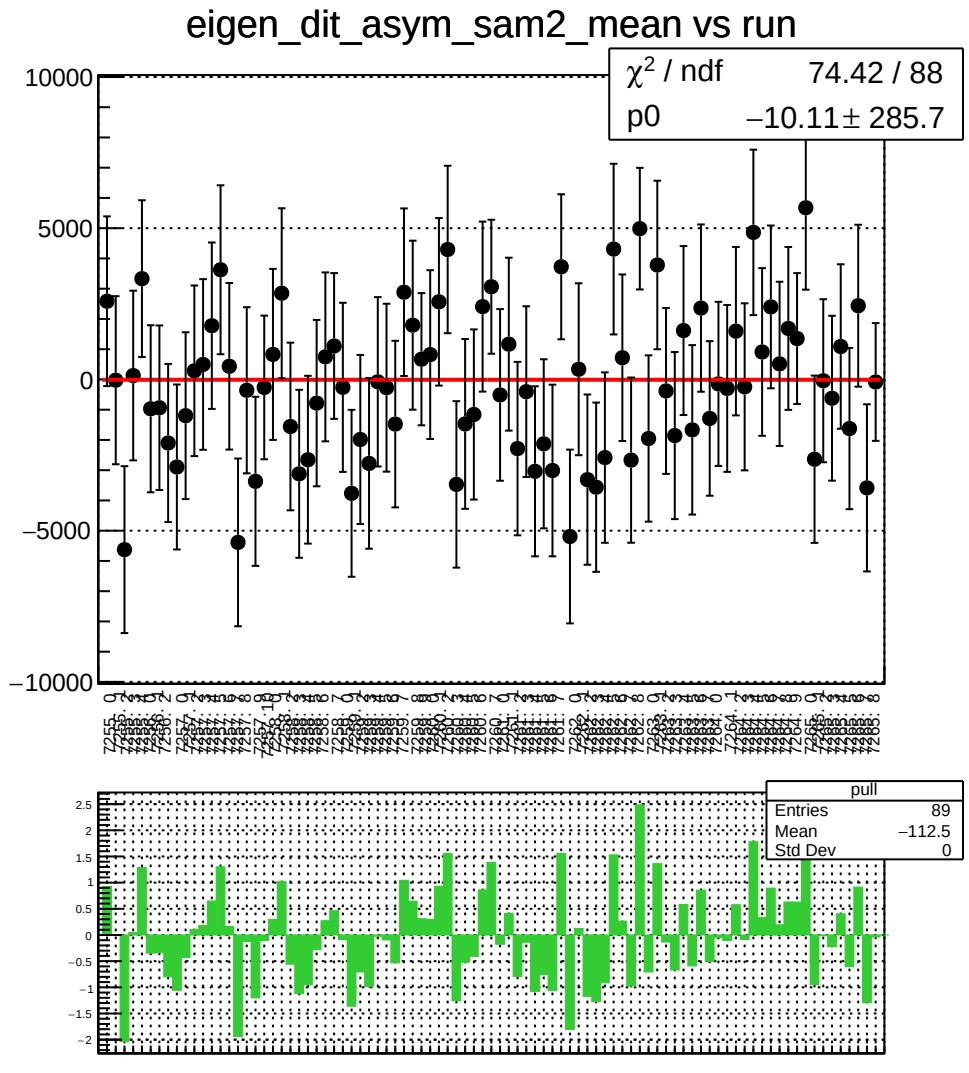

pull1D
Entries 89
Mean −0.02249
Std Dev 0.9142

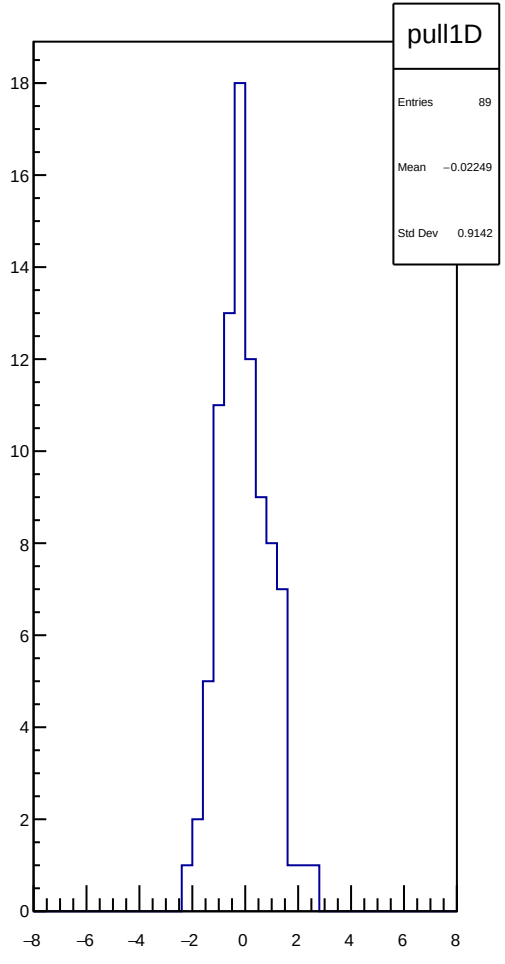

dit_asym_sam2_rms vs run
χ² / ndf 369.8 / 88
p0 263 ± 0.2021
275
270
265
260
255
250

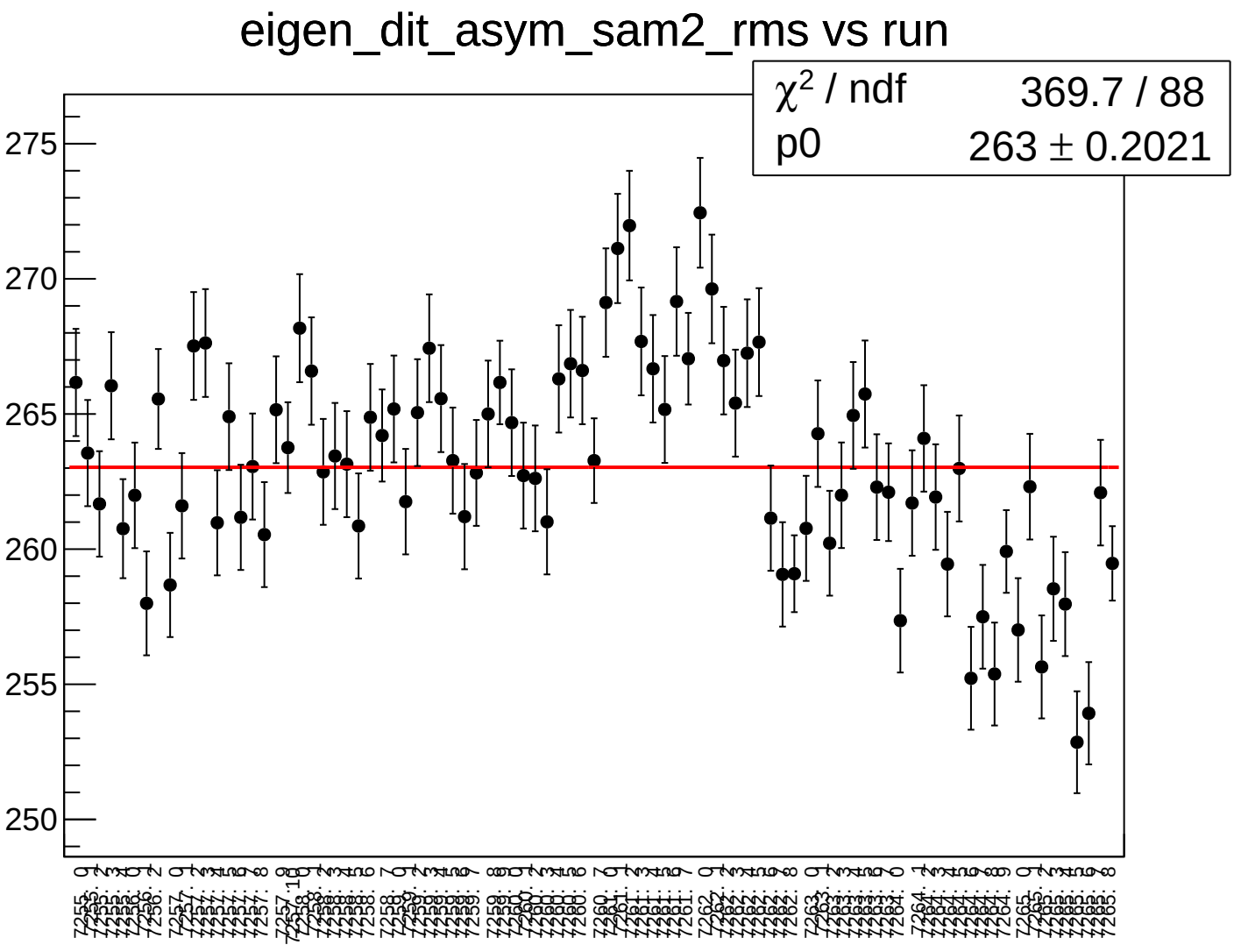

asym_sam2_dit_correction_mean vs run
χ² / ndf 93.21 / 88
p0 −1959 ± 2031
pull
Entries 89
Mean 734.9
Std Dev 0

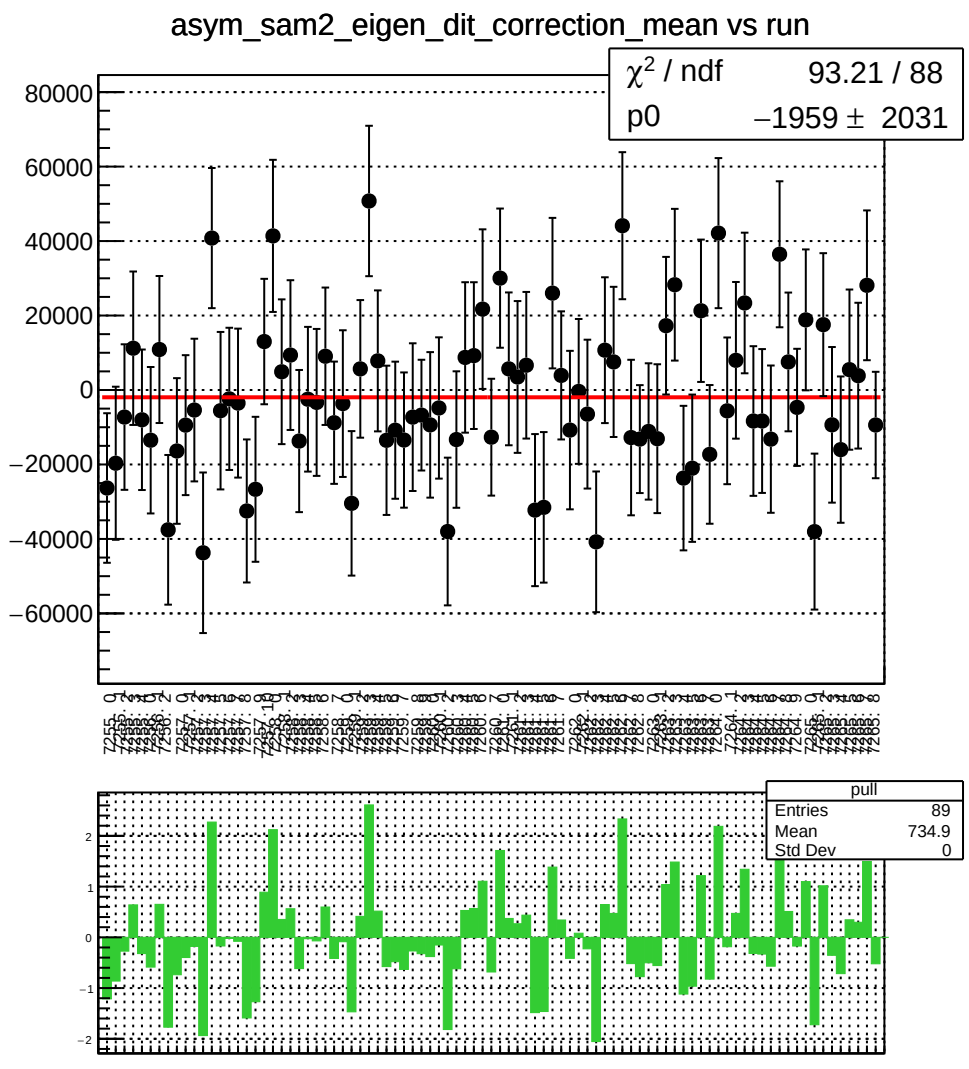

pull1D
Entries 89
Mean 0.006139
Std Dev 1.023

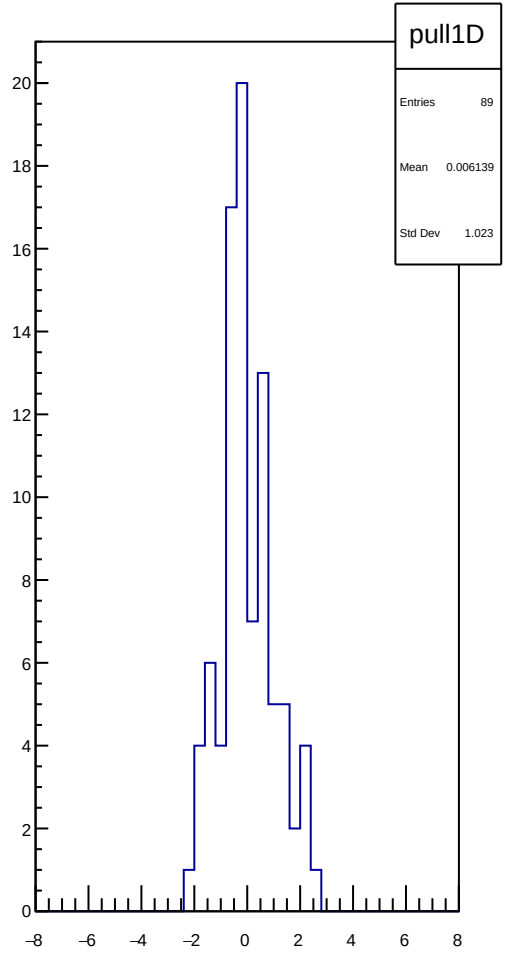

asym_sam2_dit_correction_rms vs run
χ² / ndf 2500 / 88
p0 1868 ± 1.436
2050
2000
1950
1900
1850
1800
1750
1700

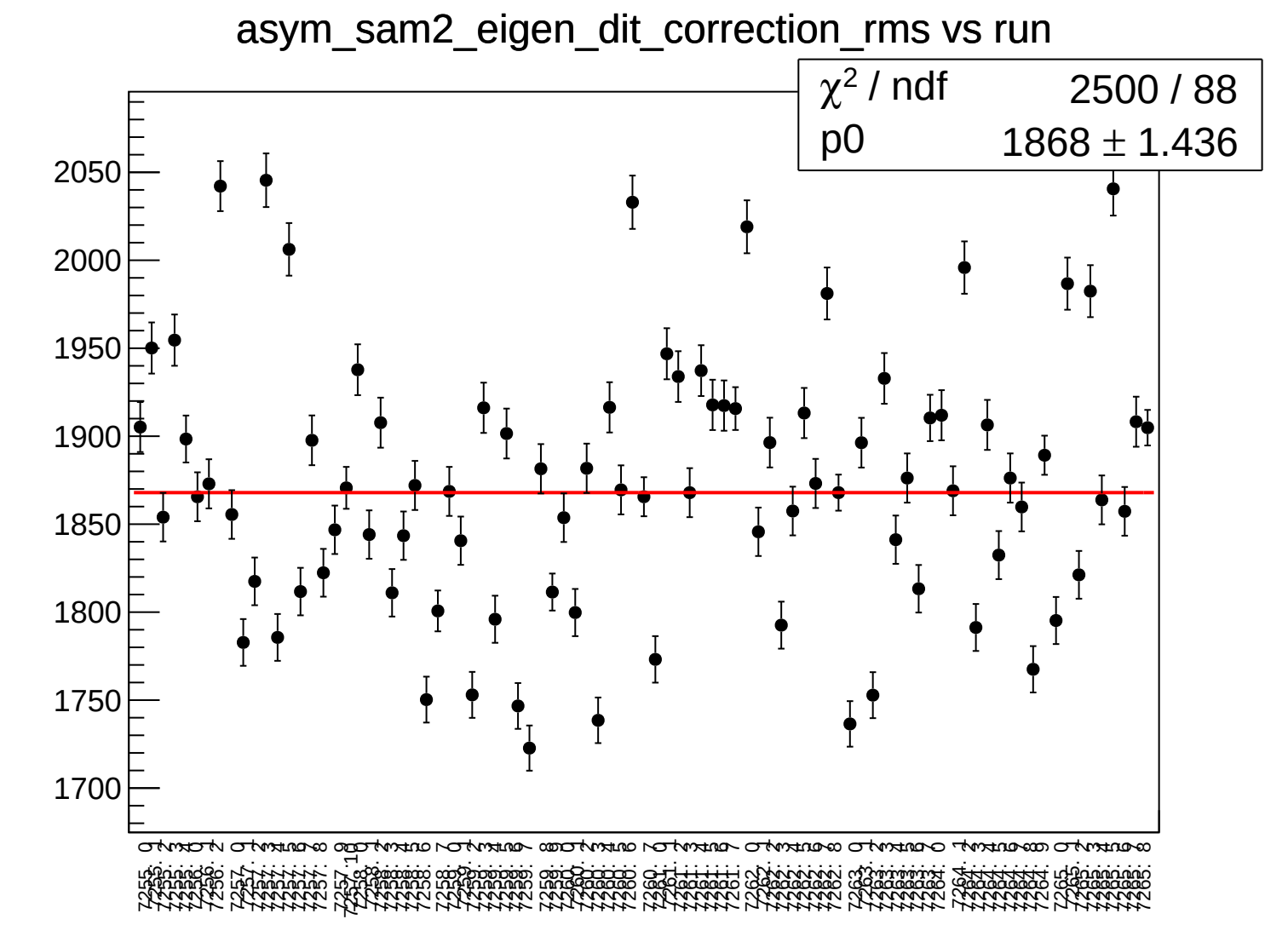

eigen_dit_asym_sam2_mean vs run
χ^2 / ndf 74.42 / 88
p0 −10.11± 285.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −112.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

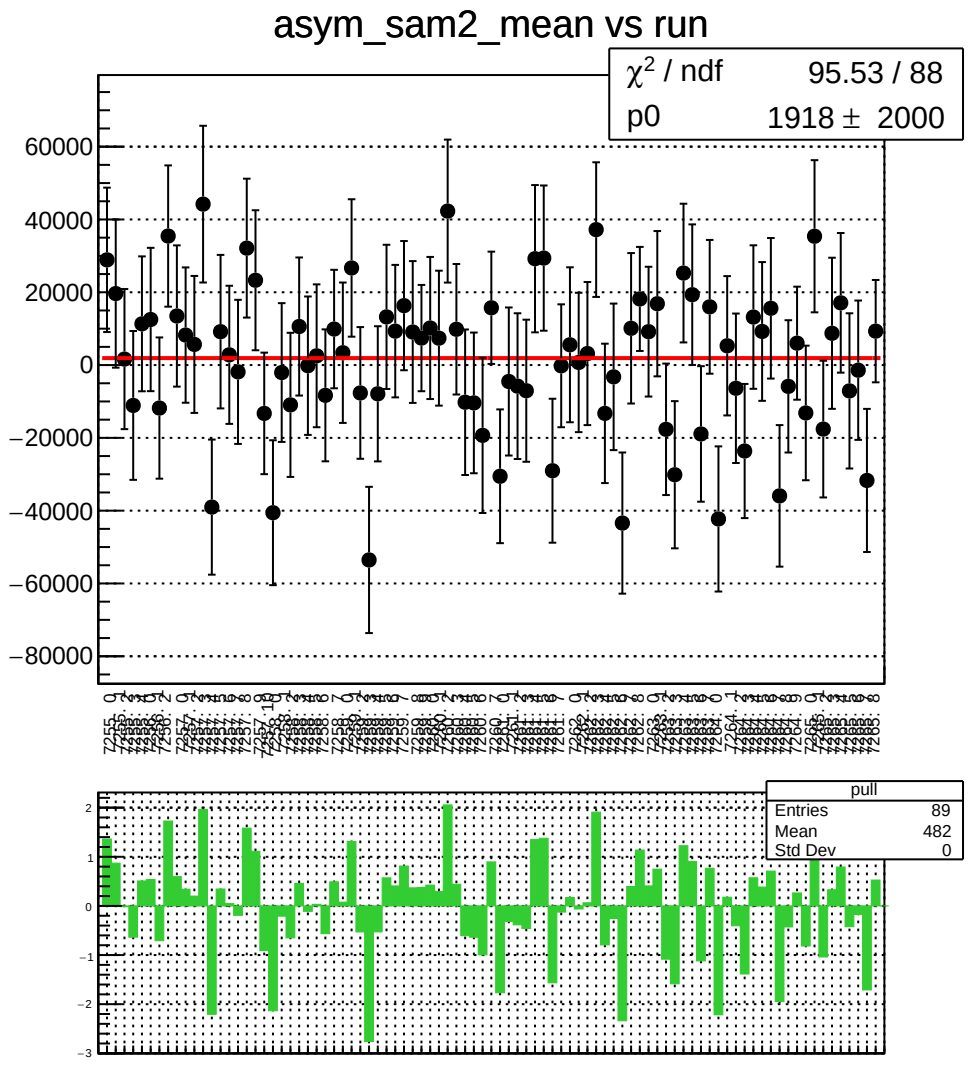

pull1D
Entries 89
Mean −0.02249
Std Dev 0.9142
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

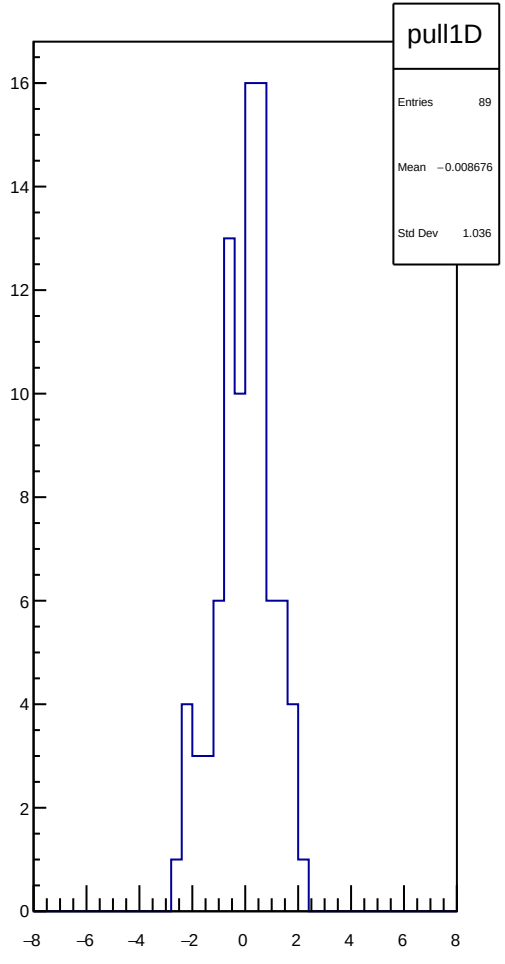

eigen_dit_asym_sam2_rms vs run
χ² / ndf 369.7 / 88
p0 263 ± 0.2021
275
270
265
260
255
250

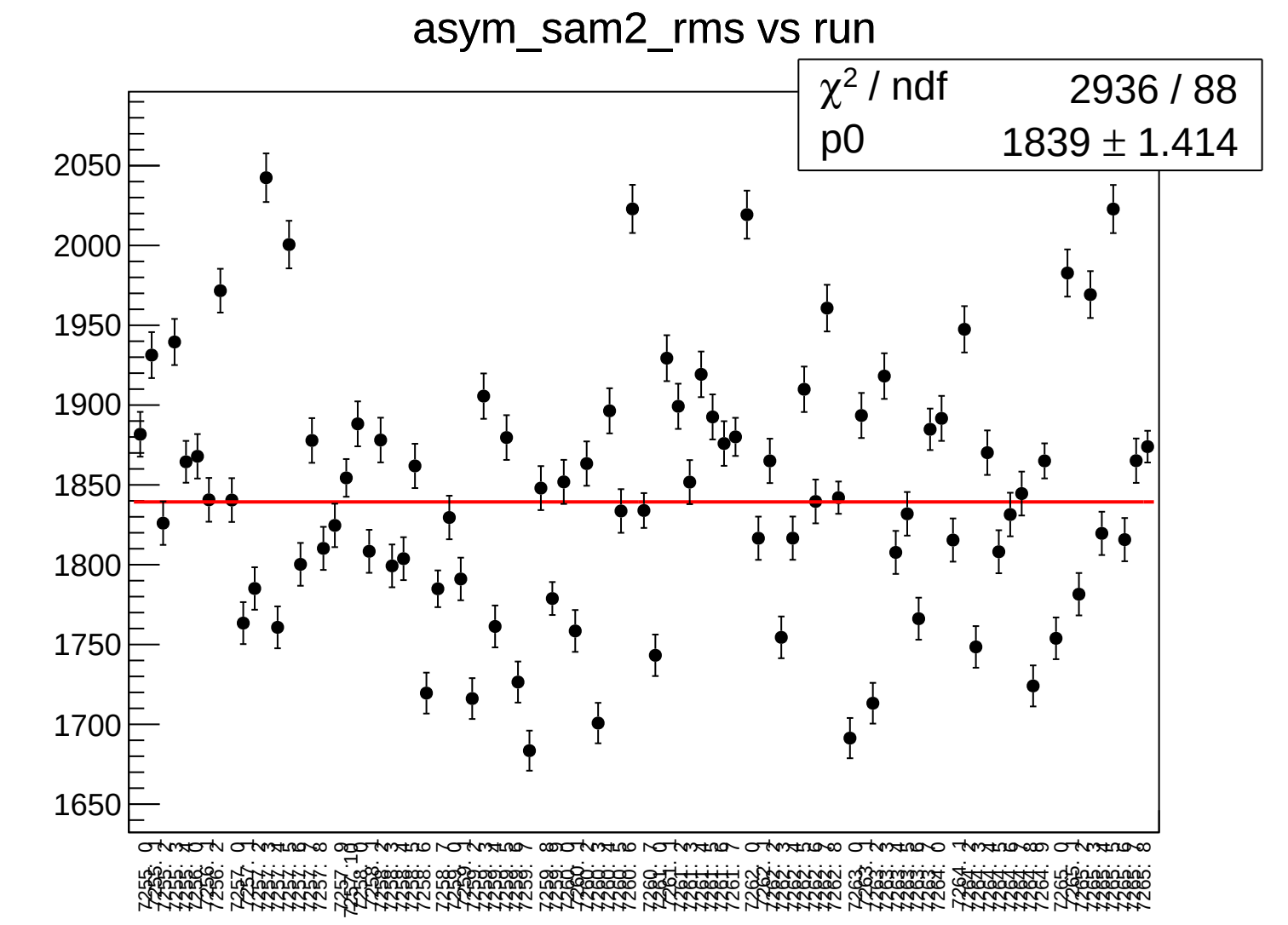

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 93.21 / 88
p0 −1959 ± 2031
pull
Entries 89
Mean 734.9
Std Dev 0

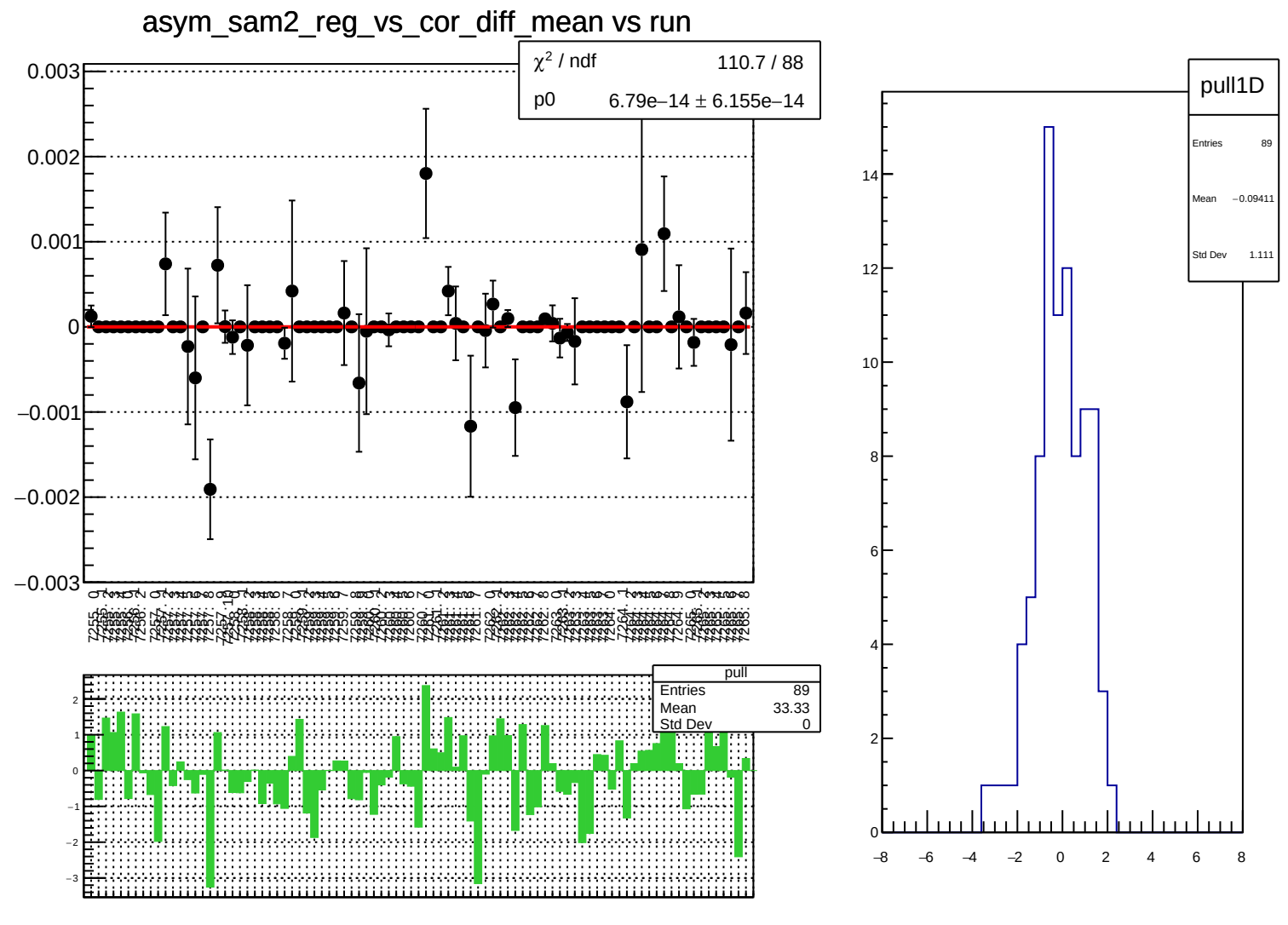

pull1D
Entries 89
Mean 0.006139
Std Dev 1.023

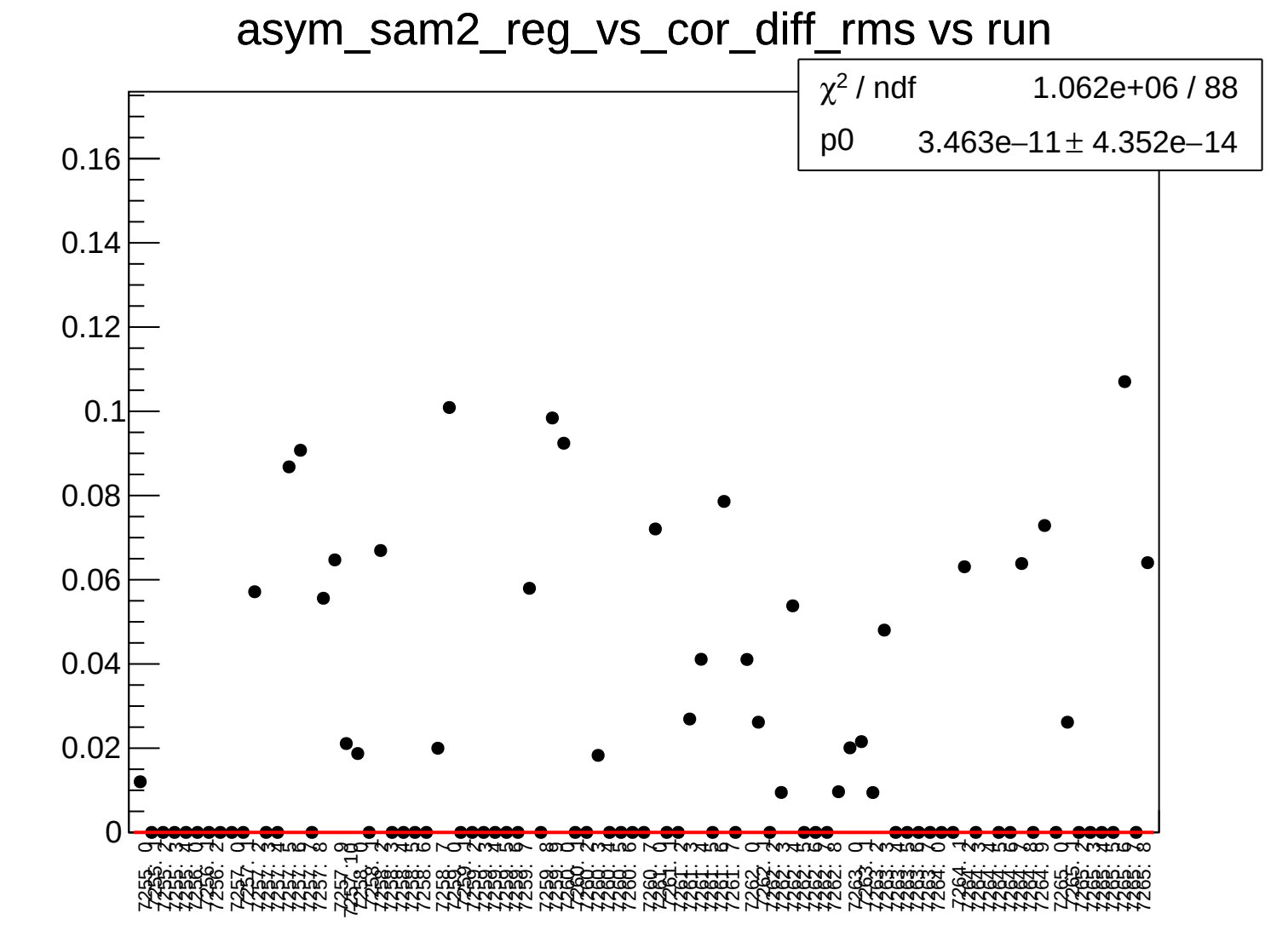

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 2500 / 88
p0 1868 ± 1.436
2050
2000
1950
1900
1850
1800
1750
1700

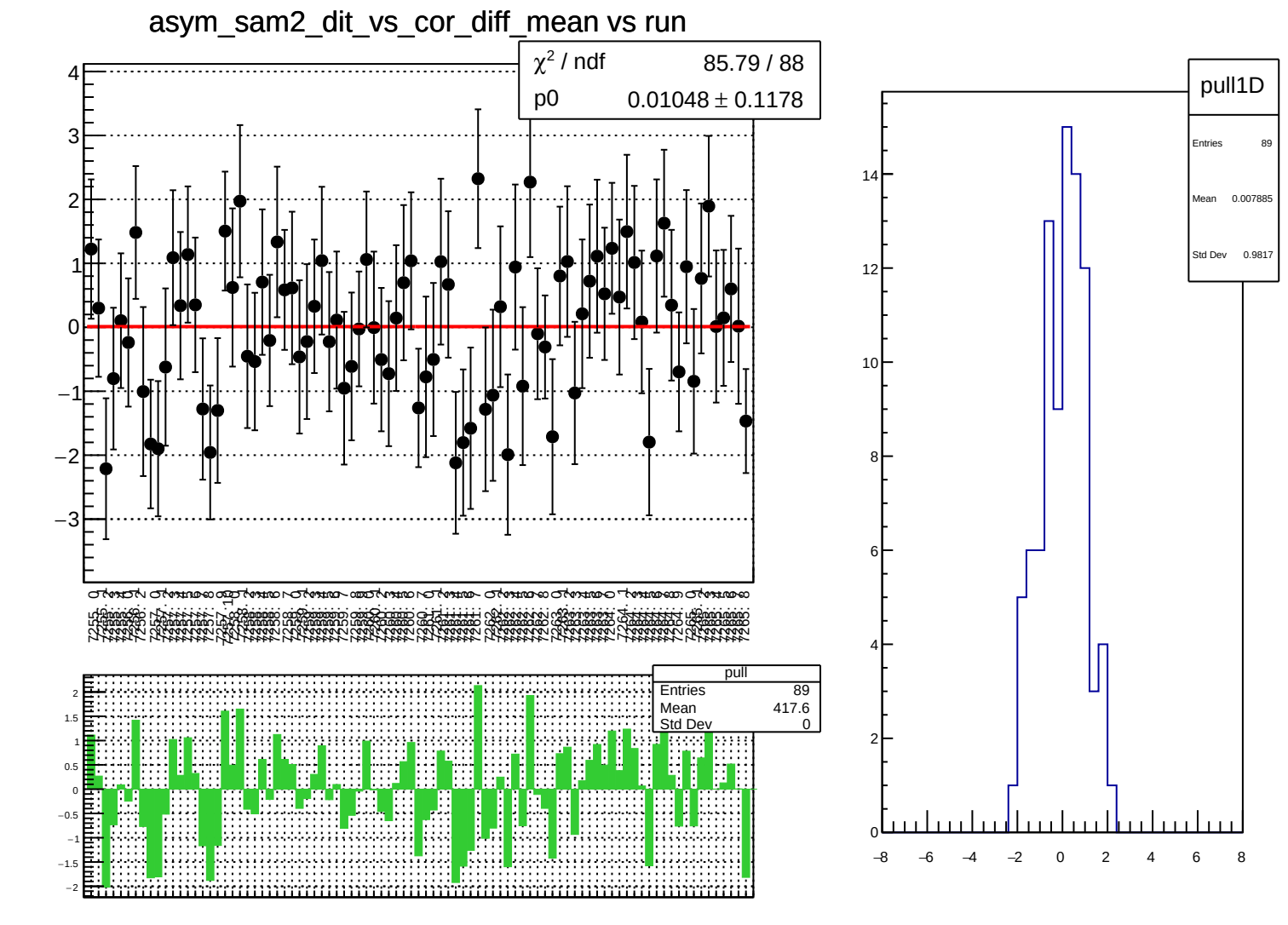

asym_sam2_mean vs run
χ^2 / ndf 95.53 / 88
p0 1918 ± 2000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 482
Std Dev 0
2
1
0
−1
−2
−3

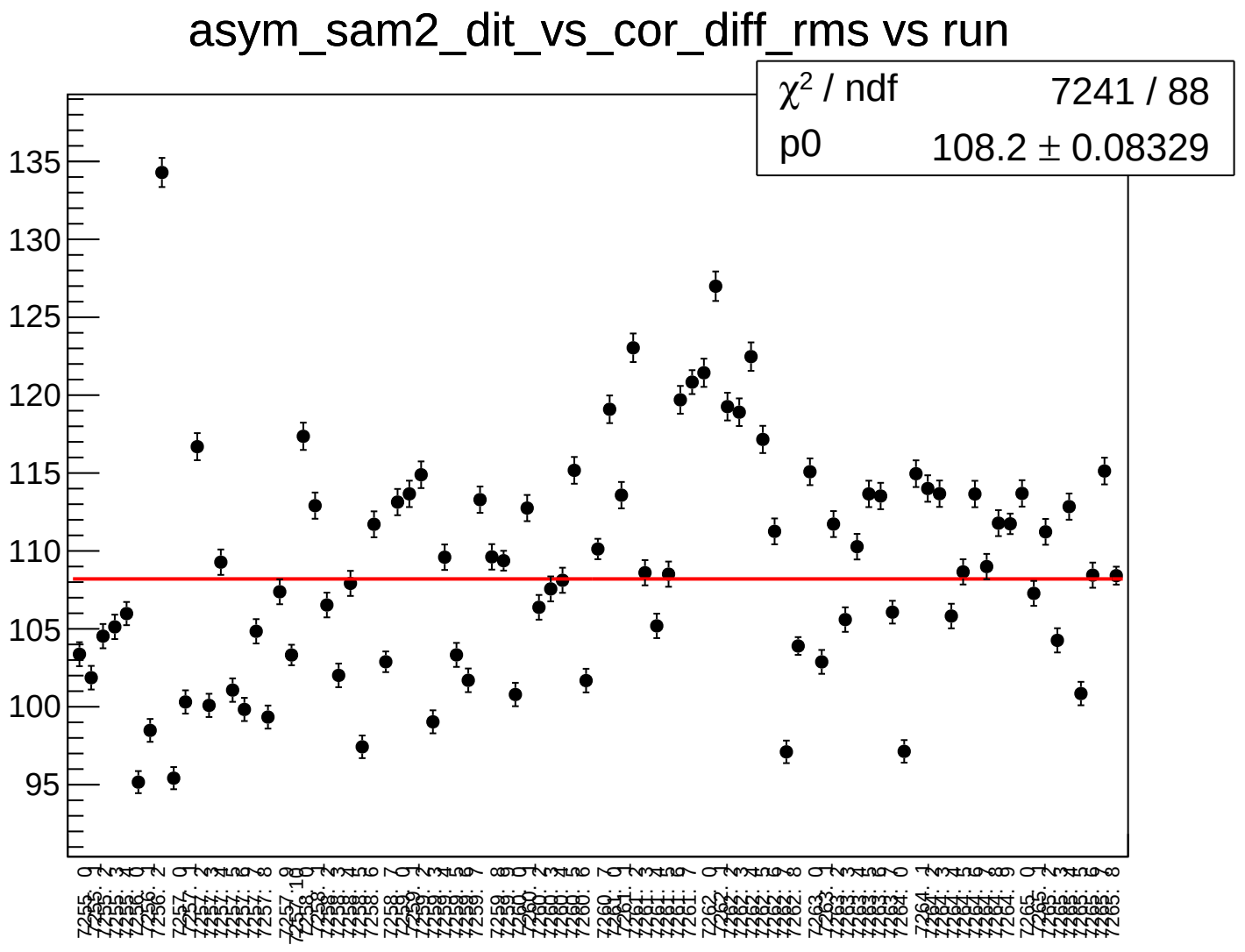

pull1D
Entries 89
Mean −0.008676
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

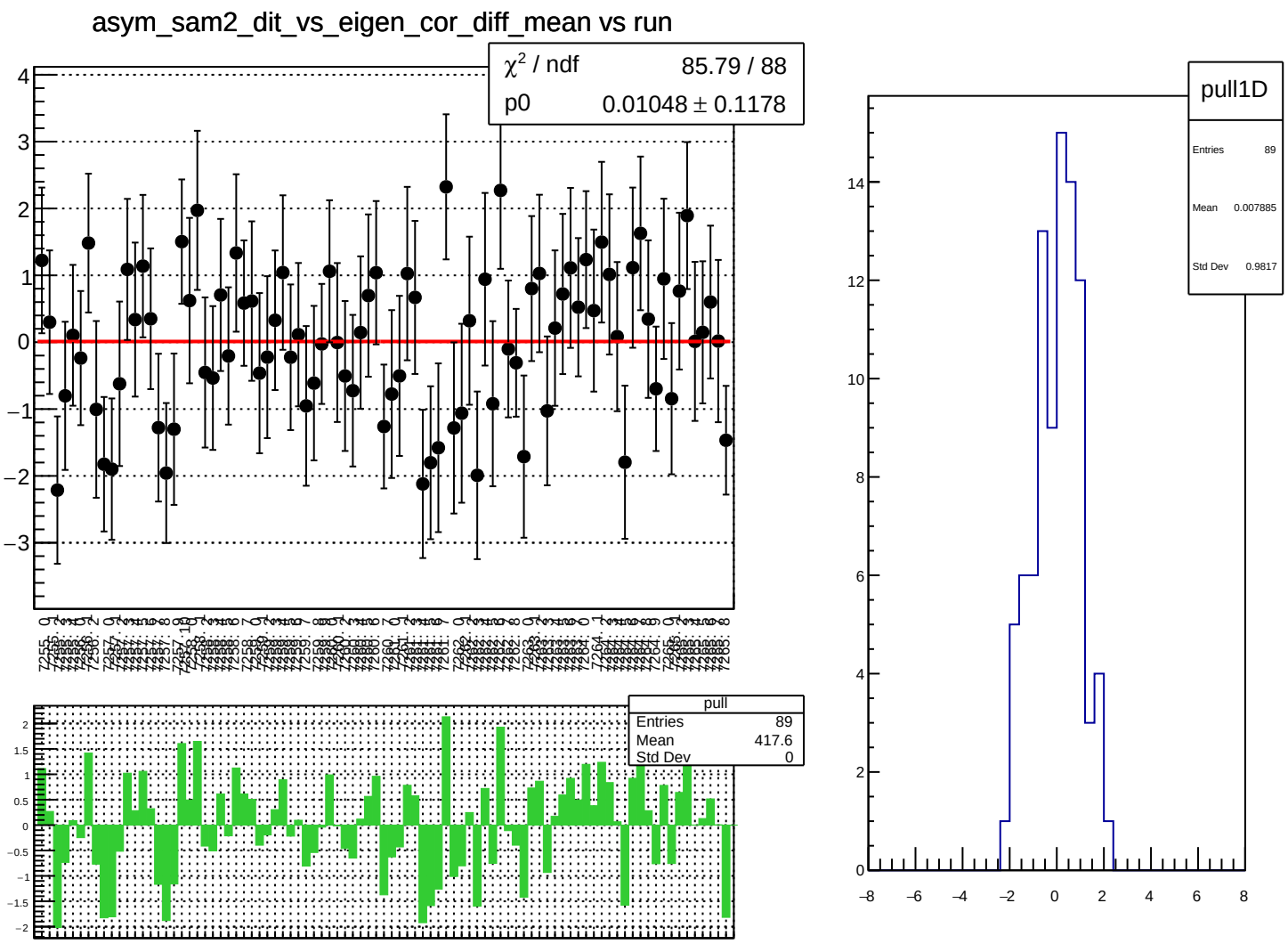

asym_sam2_rms vs run
χ² / ndf 2936 / 88
p0 1839 ± 1.414
2050
2000
1950
1900
1850
1800
1750
1700
1650

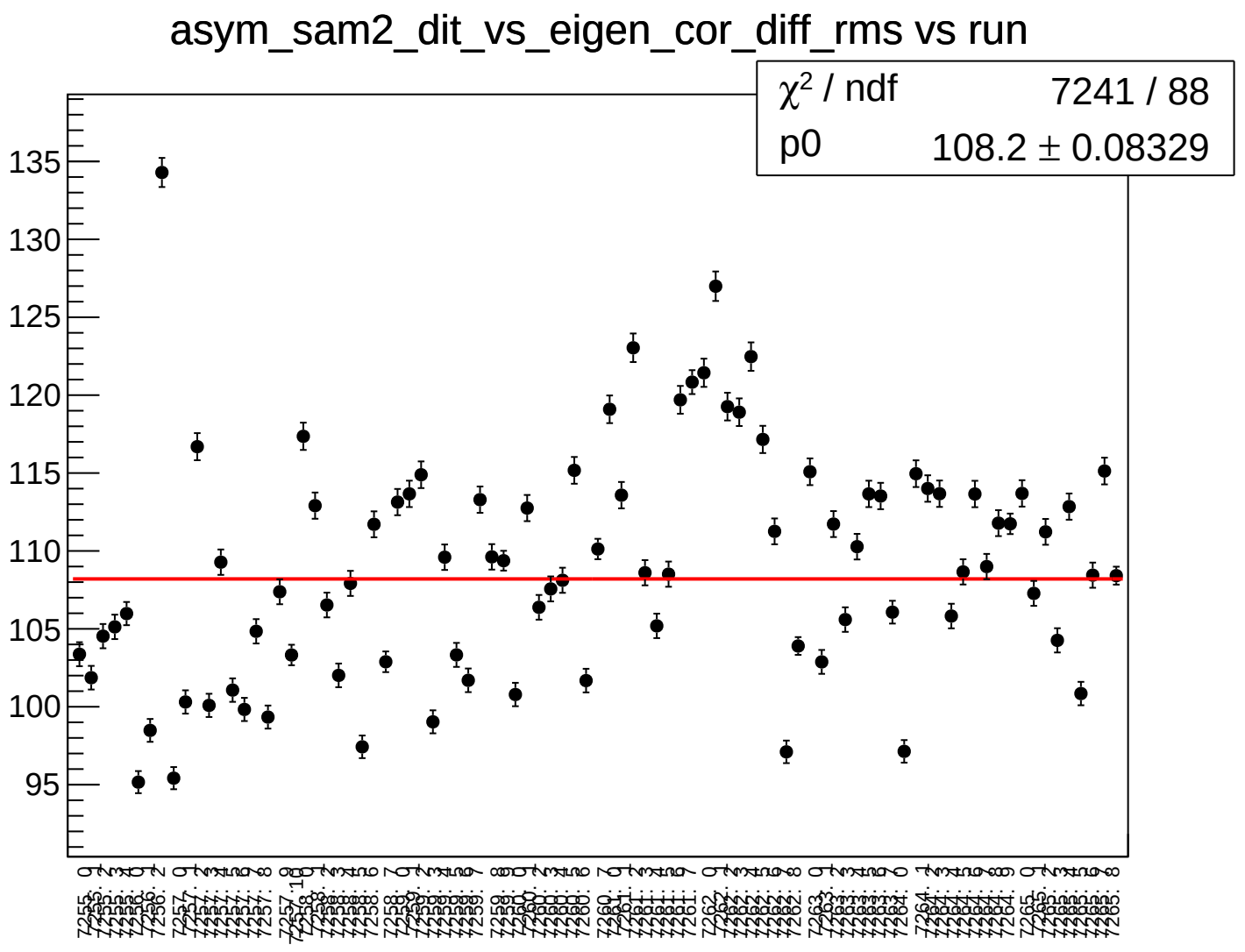

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 88
p0 6.79e−14 ± 6.155e−14
pull
Entries 89
Mean 33.33
Std Dev 0
pull1D
Entries 89
Mean −0.09411
Std Dev 1.111

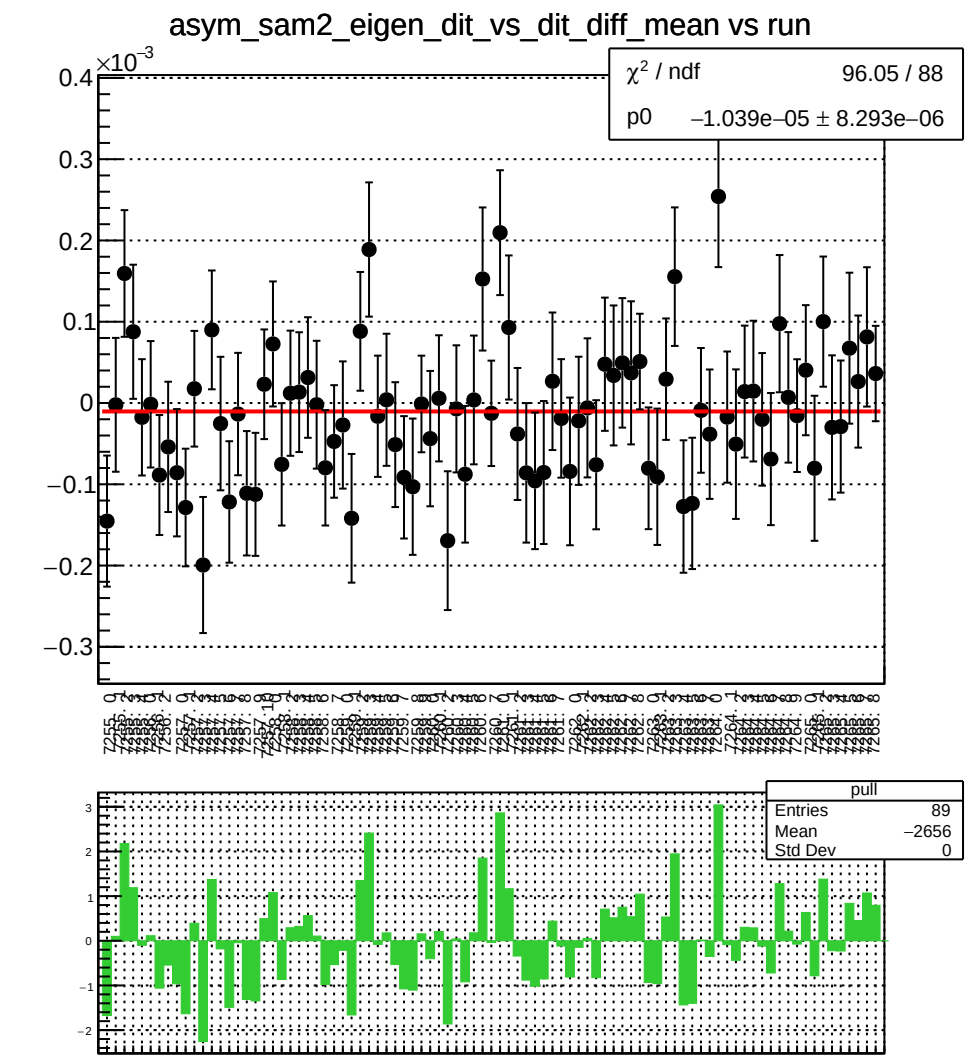

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.062e+06 / 88
p0 3.463e−11 ± 4.352e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

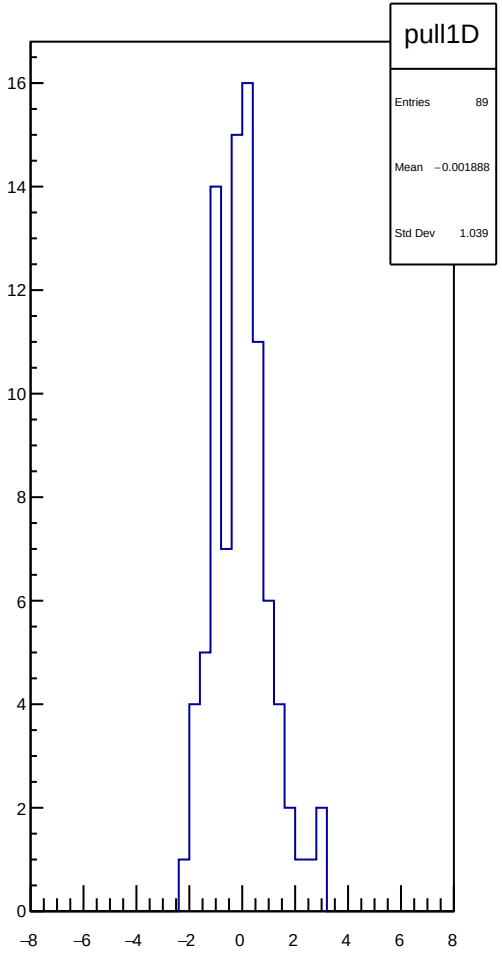

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 85.79 / 88
p0 0.01048 ± 0.1178
pull
Entries 89
Mean 417.6
Std Dev 0
pull1D
Entries 89
Mean 0.007885
Std Dev 0.9817

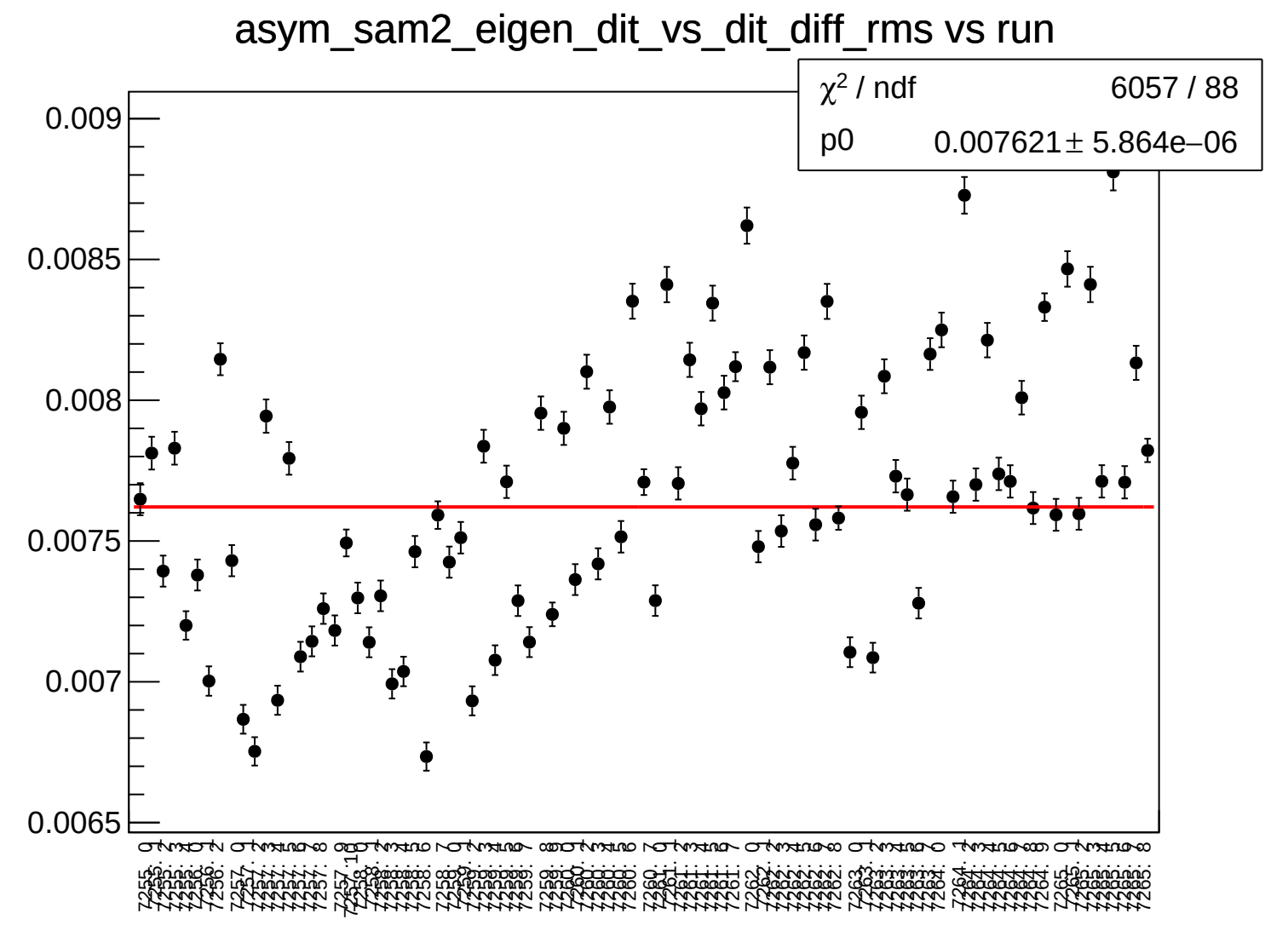

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 7241 / 88
p0 108.2 ± 0.08329
135
130
125
120
115
110
105
100
95

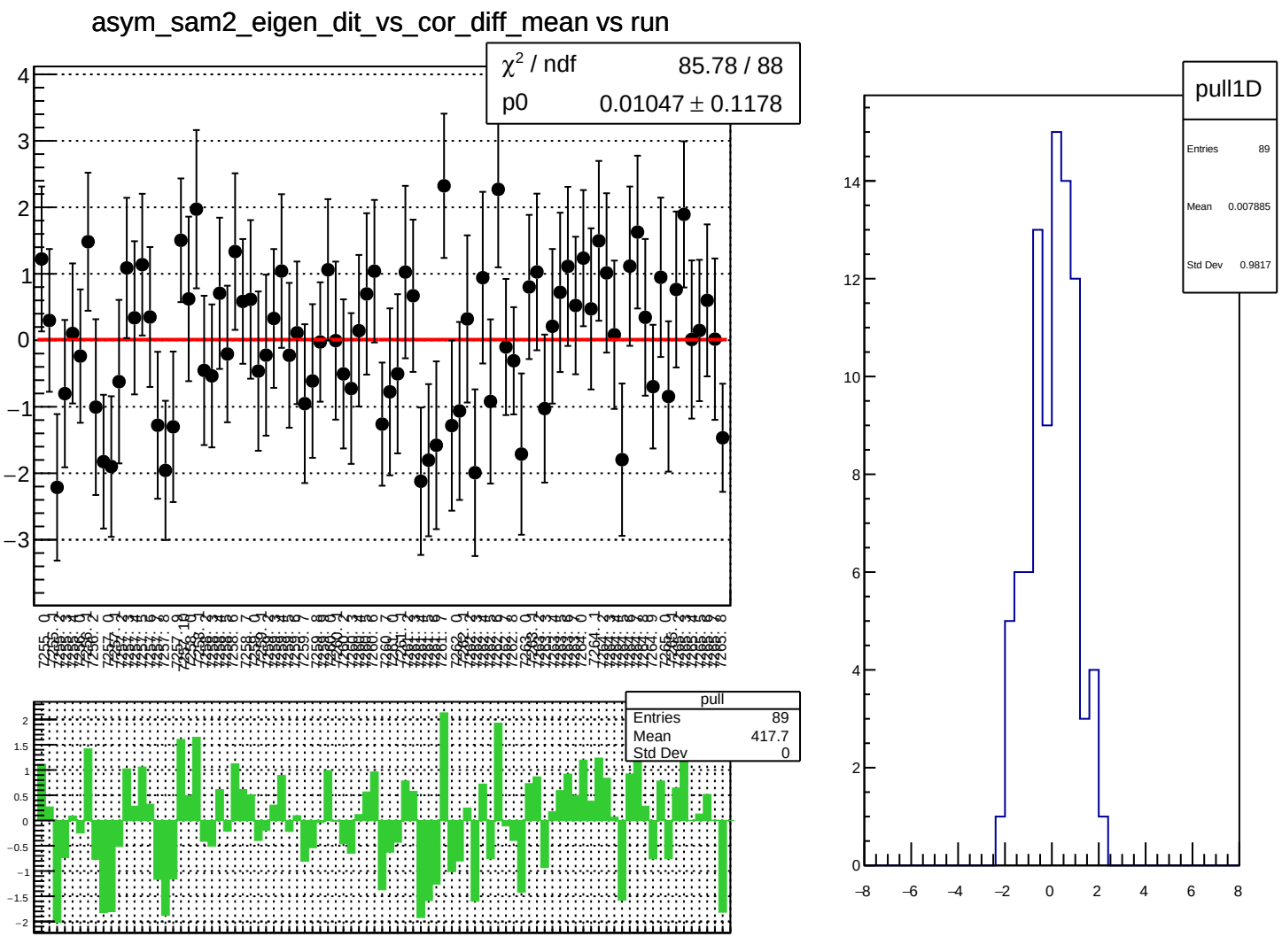

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.79 / 88
p0 0.01048 ± 0.1178
pull
Entries 89
Mean 417.6
Std Dev 0
pull1D
Entries 89
Mean 0.007885
Std Dev 0.9817

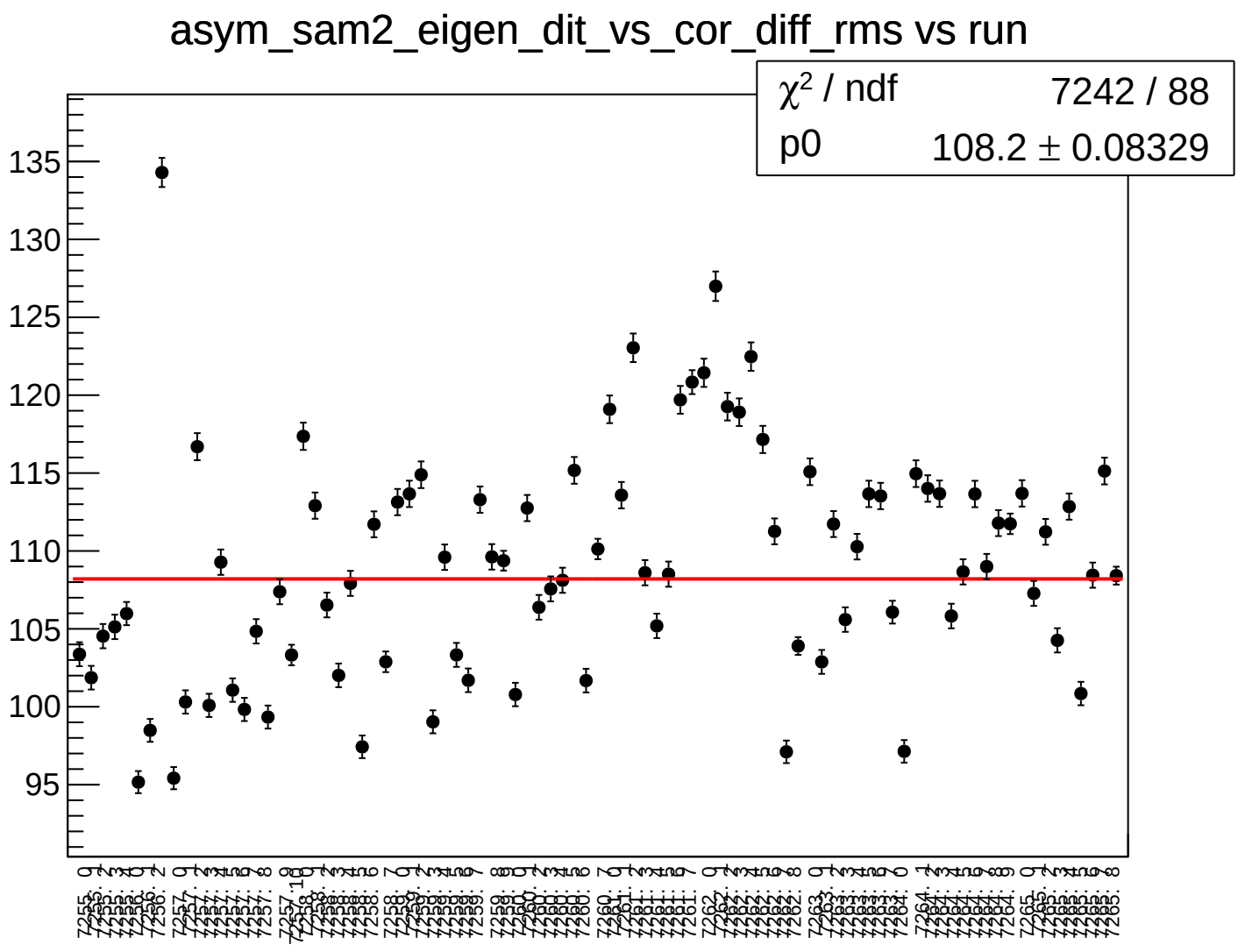

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7241 / 88
p0 108.2 ± 0.08329
135
130
125
120
115
110
105
100
95

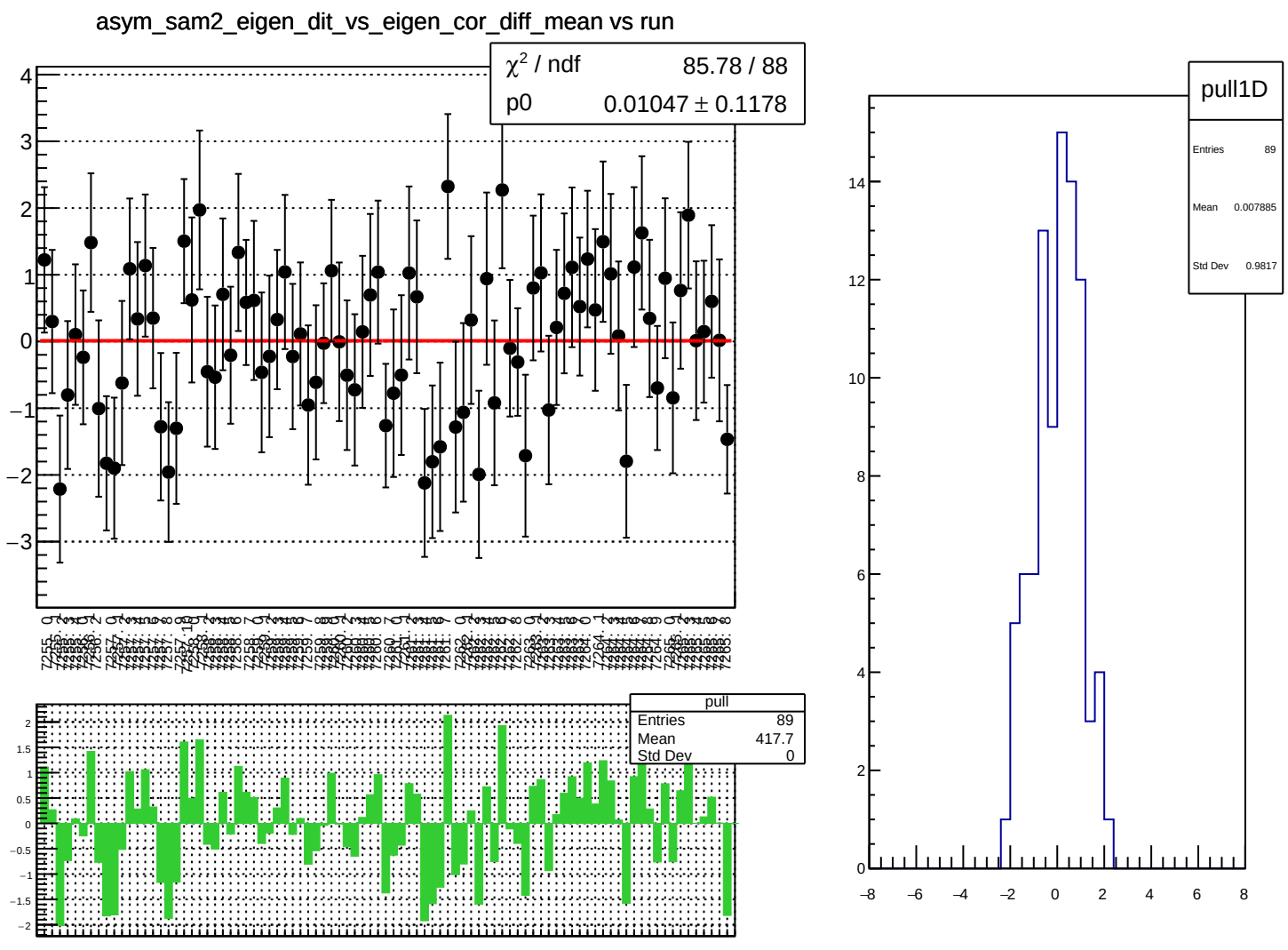

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.05 / 88
p0 −1.039e−05 ± 8.293e−06
pull
Entries 89
Mean −2656
Std Dev 0

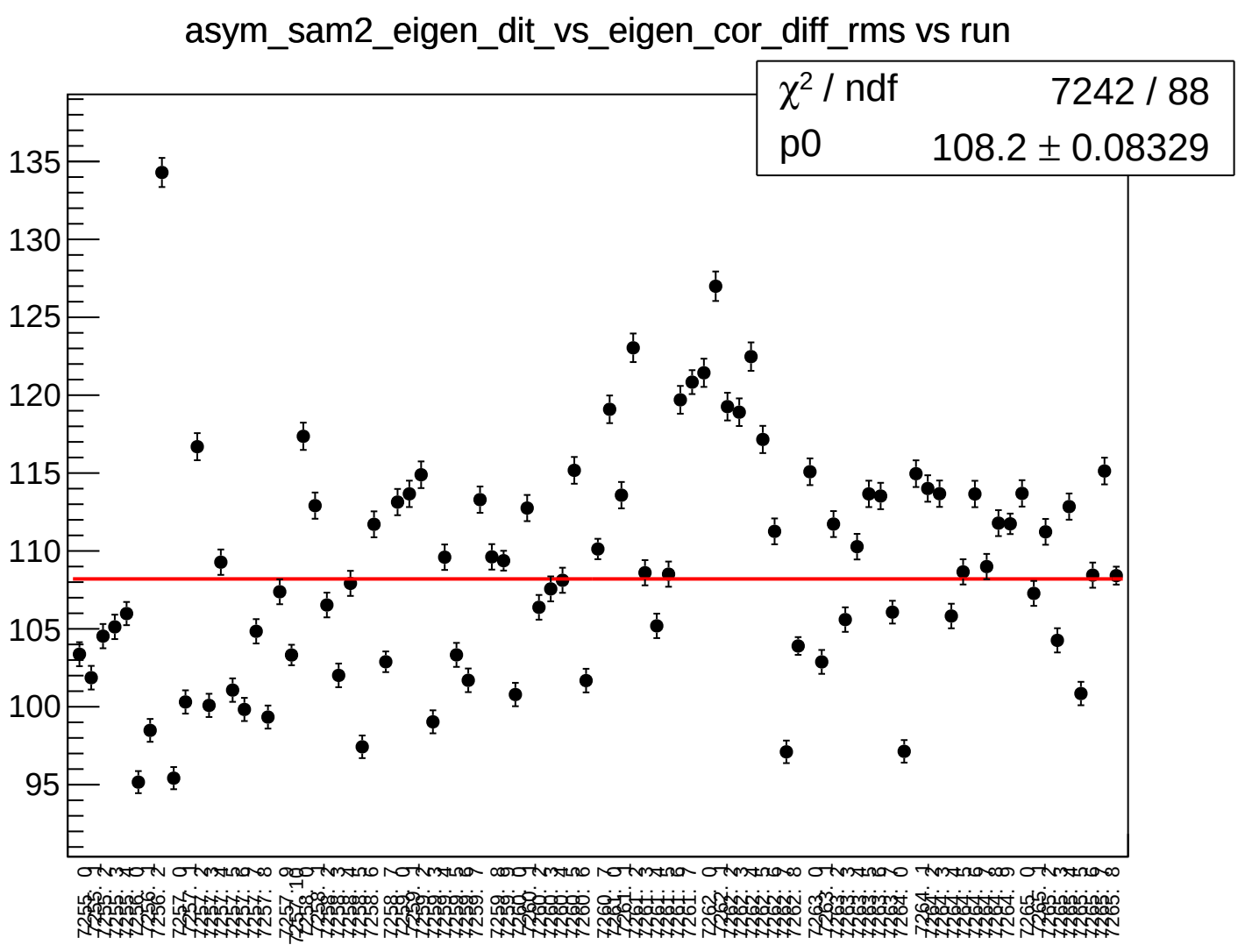

pull1D
Entries 89
Mean −0.001888
Std Dev 1.039

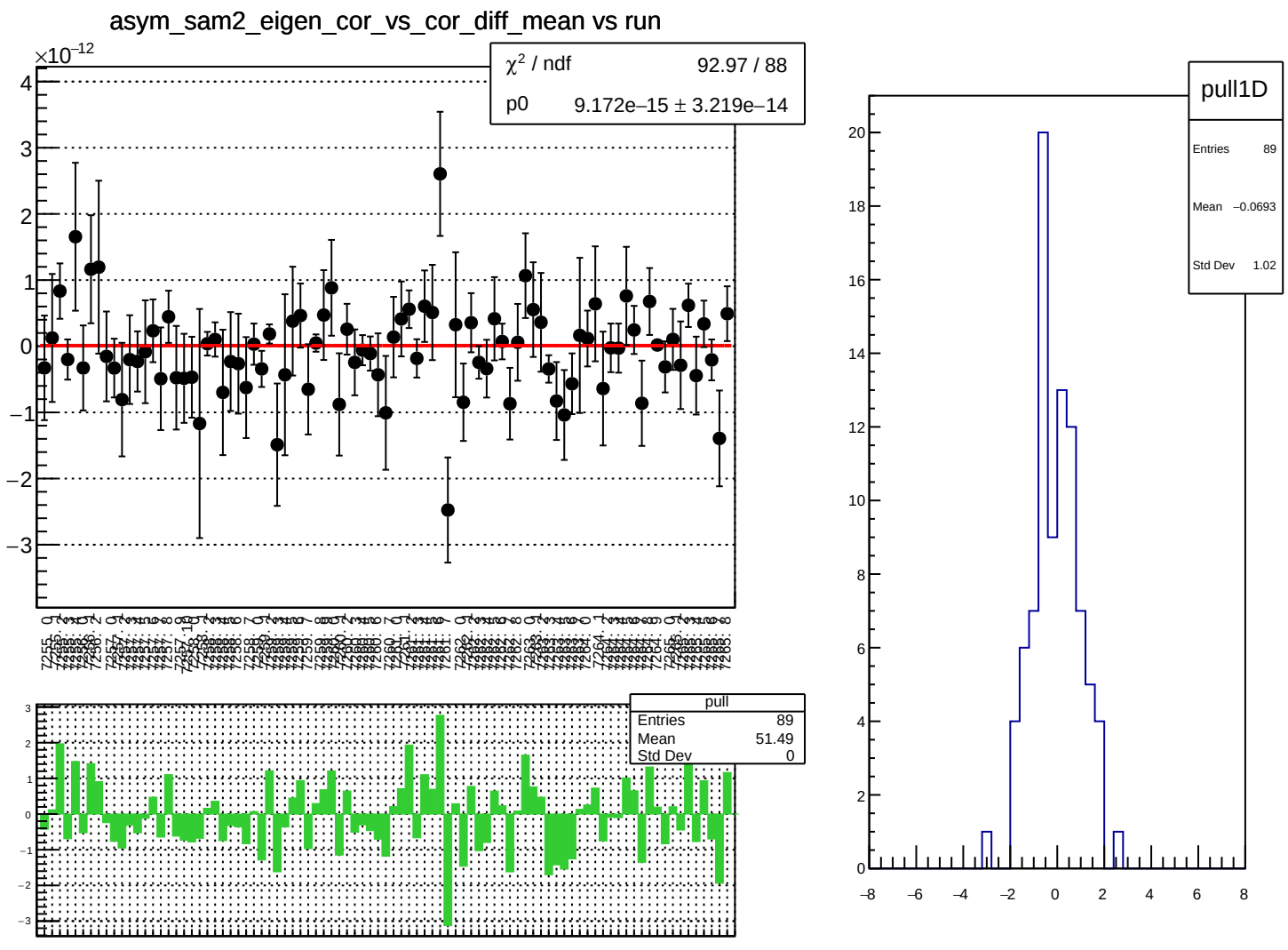

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6057 / 88
p0 0.007621 ± 5.864e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065

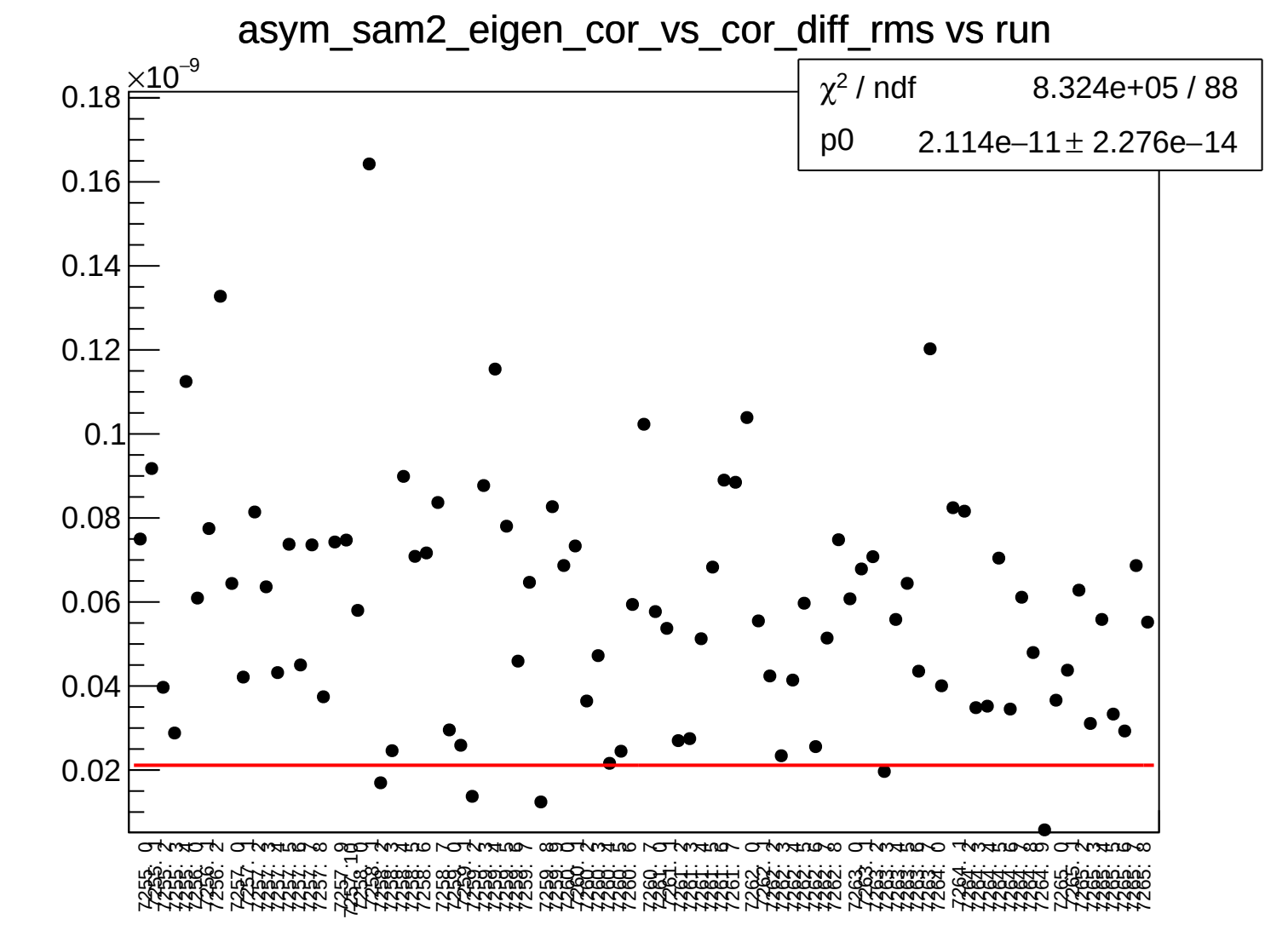

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.78 / 88
p0 0.01047 ± 0.1178
pull
Entries 89
Mean 417.7
Std Dev 0
pull1D
Entries 89
Mean 0.007885
Std Dev 0.9817

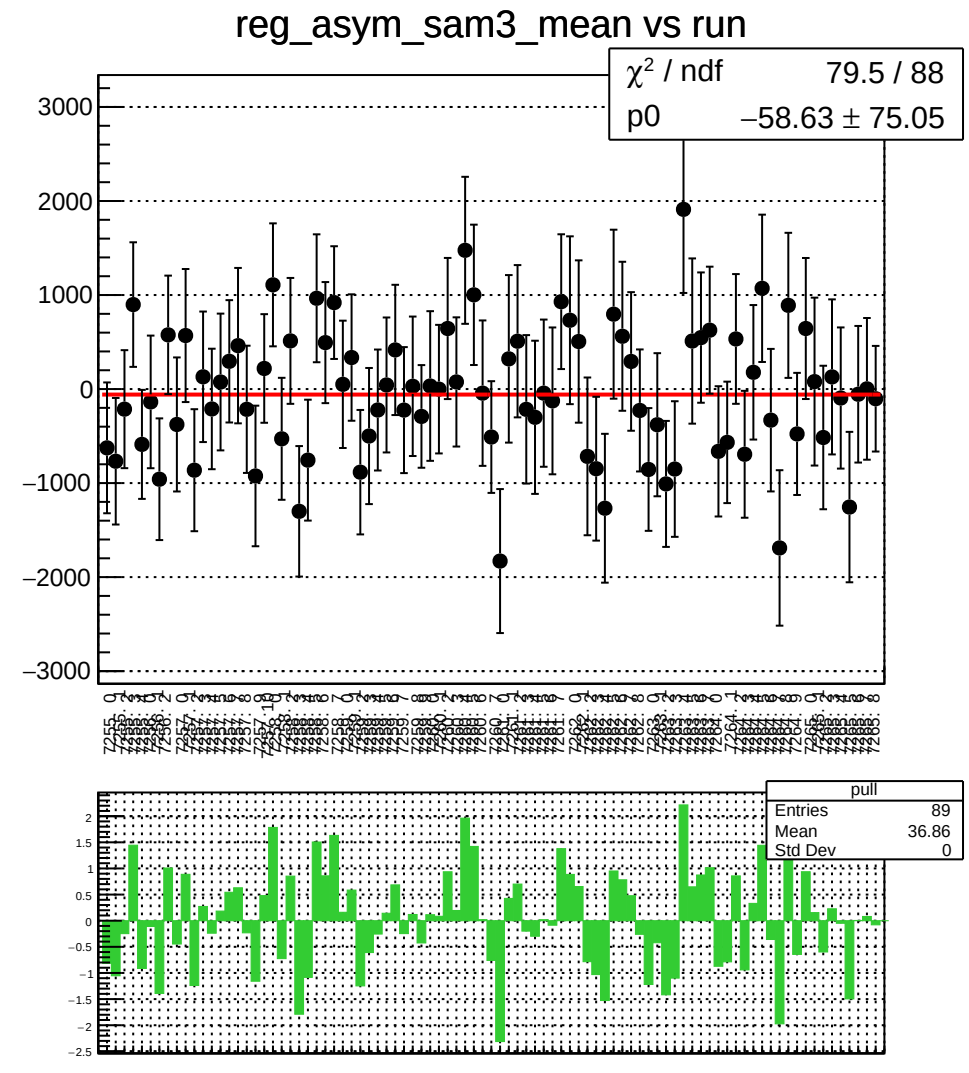

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7242 / 88
p0 108.2 ± 0.08329
135
130
125
120
115
110
105
100
95

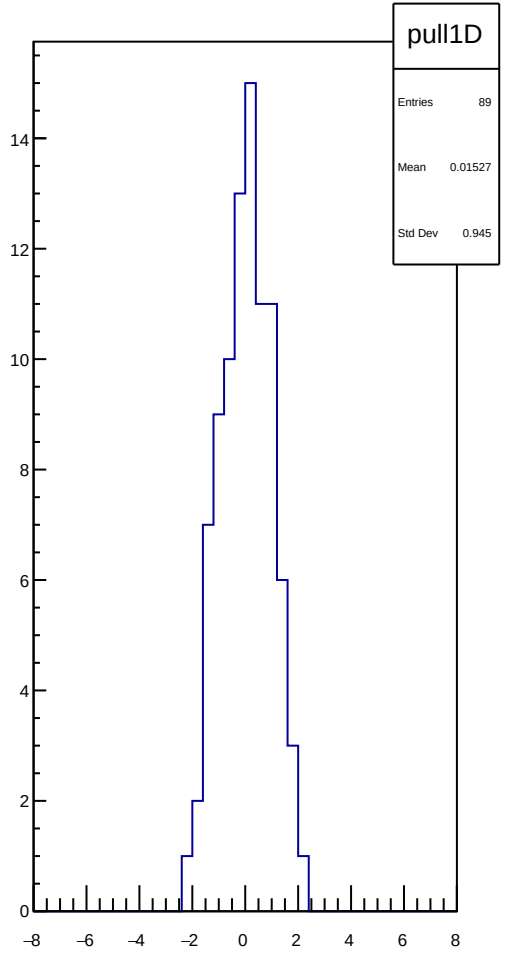

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.78 / 88
p0 0.01047 ± 0.1178
pull
Entries 89
Mean 417.7
Std Dev 0
pull1D
Entries 89
Mean 0.007885
Std Dev 0.9817

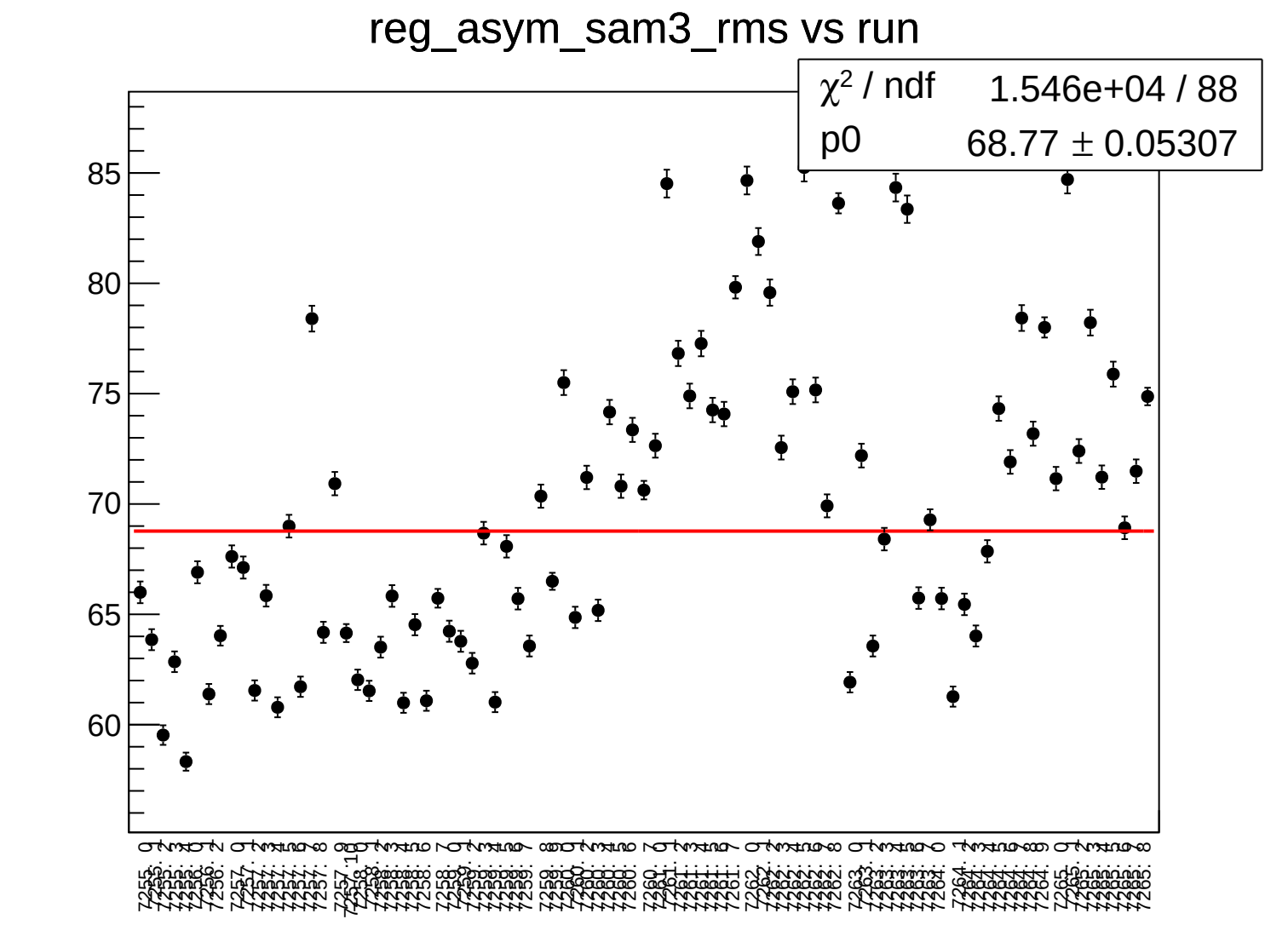

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7242 / 88
p0 108.2 ± 0.08329
135
130
125
120
115
110
105
100
95

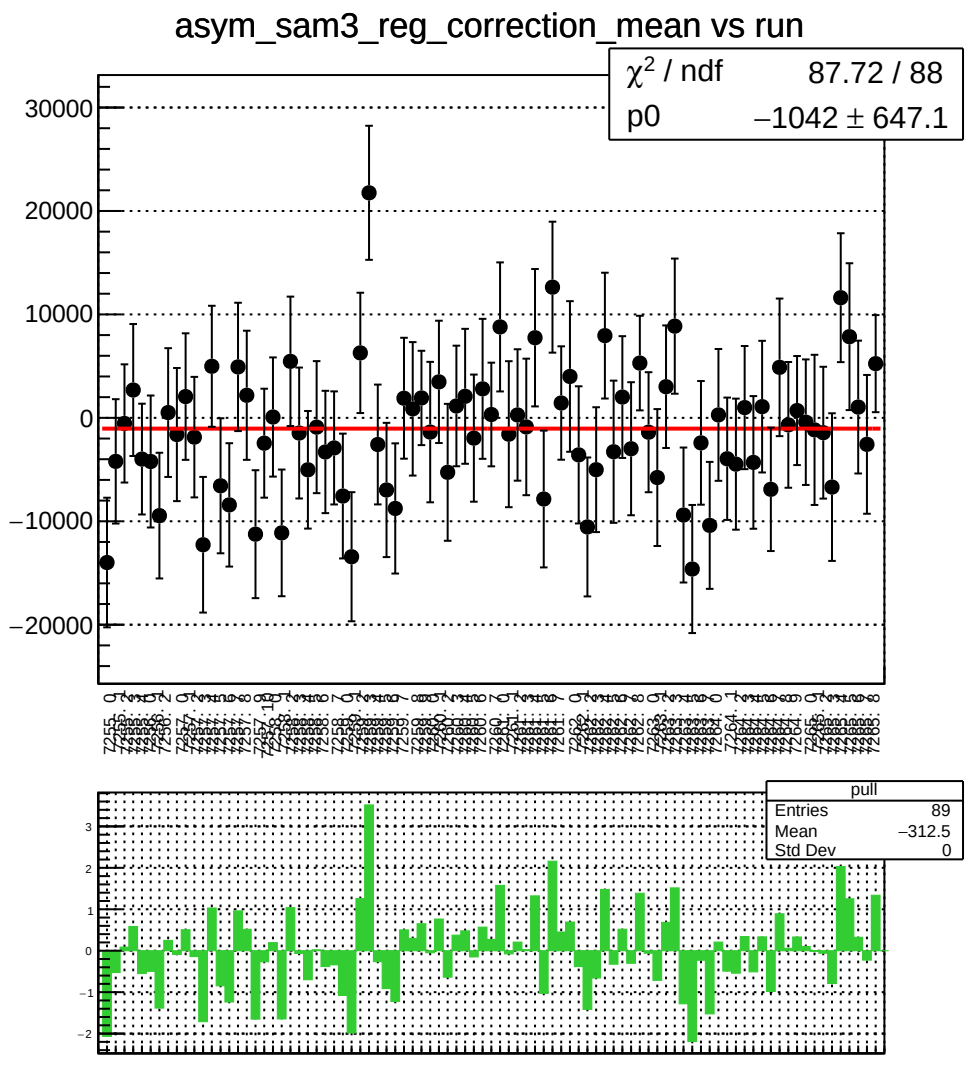

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.97 / 88
p0 9.172e−15 ± 3.219e−14
pull
Entries 89
Mean 51.49
Std Dev 0
pull1D
Entries 89
Mean −0.0693
Std Dev 1.02

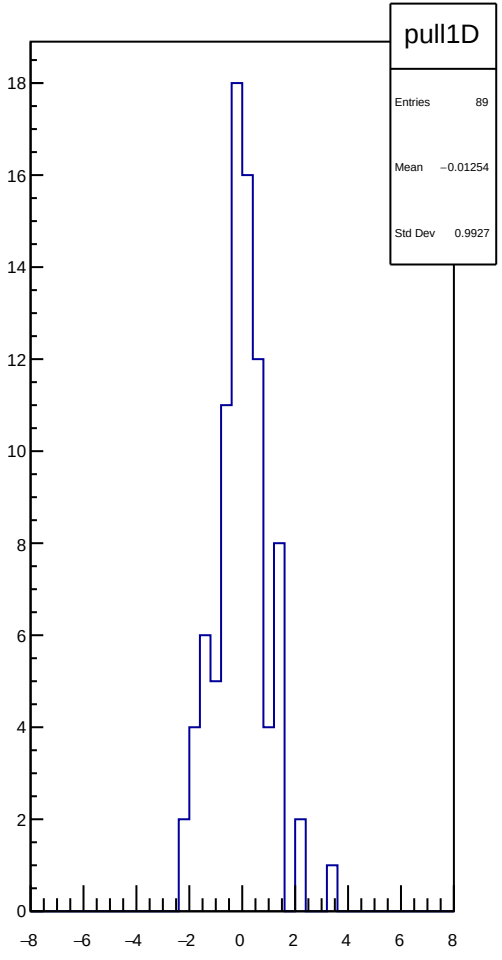

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 8.324e+05 / 88
p0 2.114e−11 ± 2.276e−14

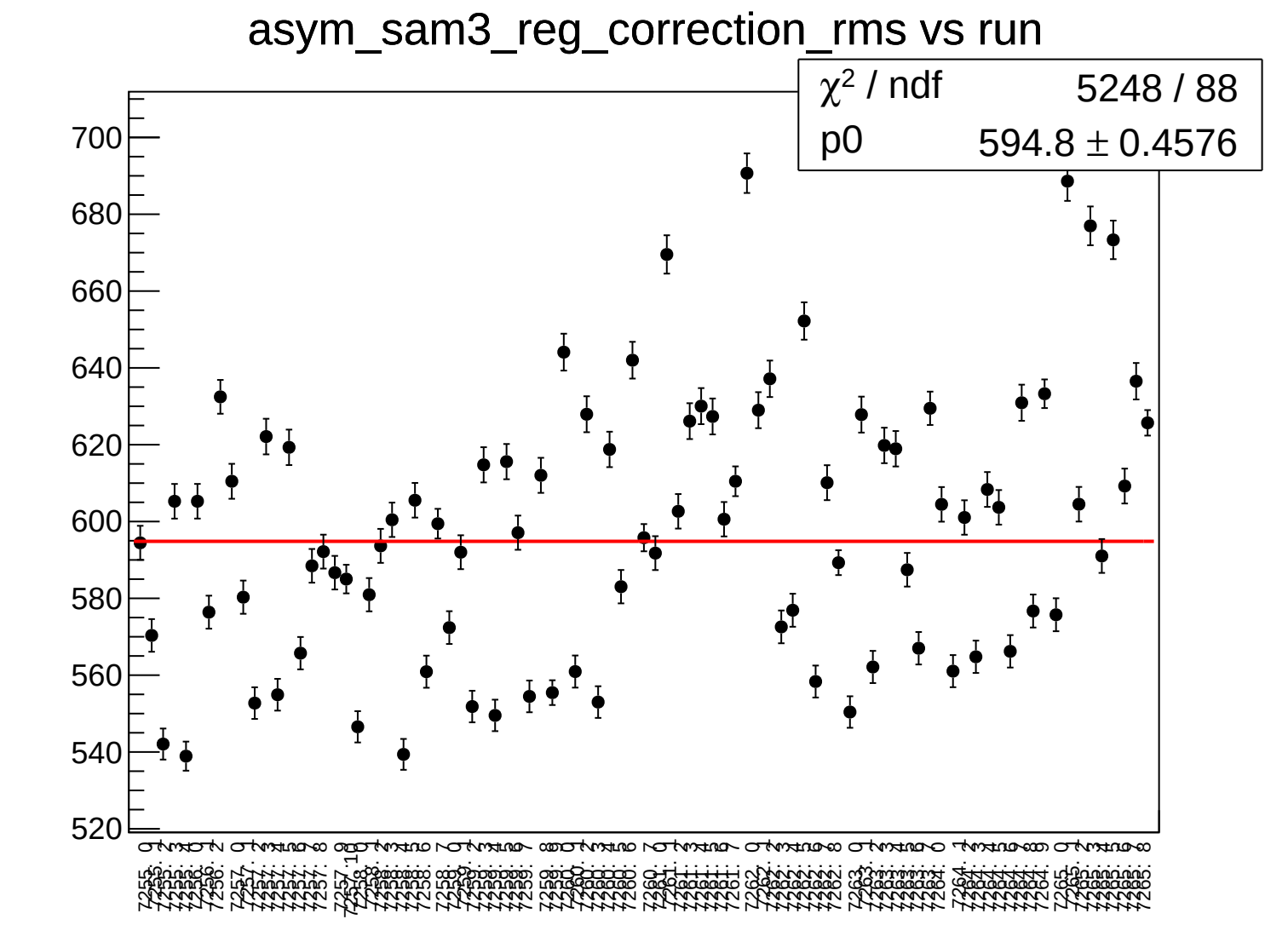

reg_asym_sam3_mean vs run
χ² / ndf 79.5 / 88
p0 −58.63 ± 75.05
pull
Entries 89
Mean 36.86
Std Dev 0

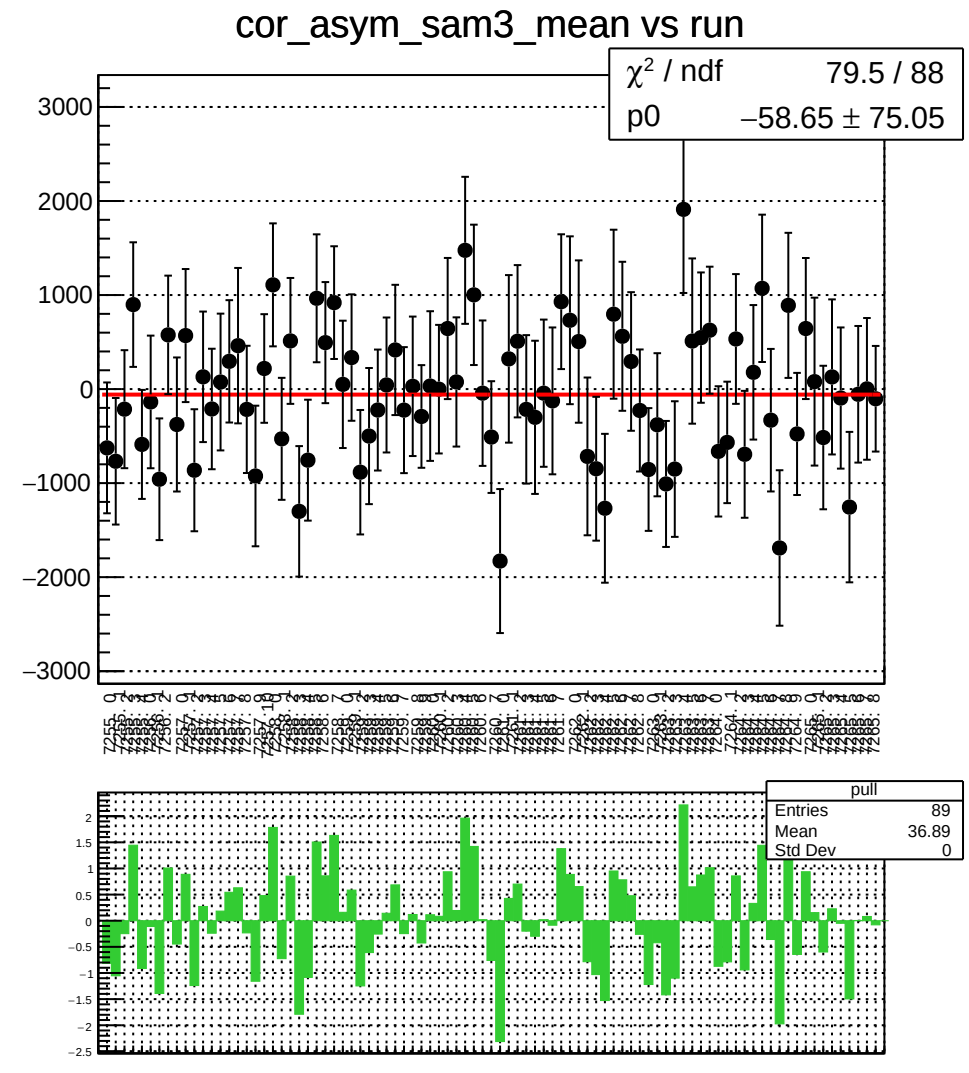

pull1D
Entries 89
Mean 0.01527
Std Dev 0.945

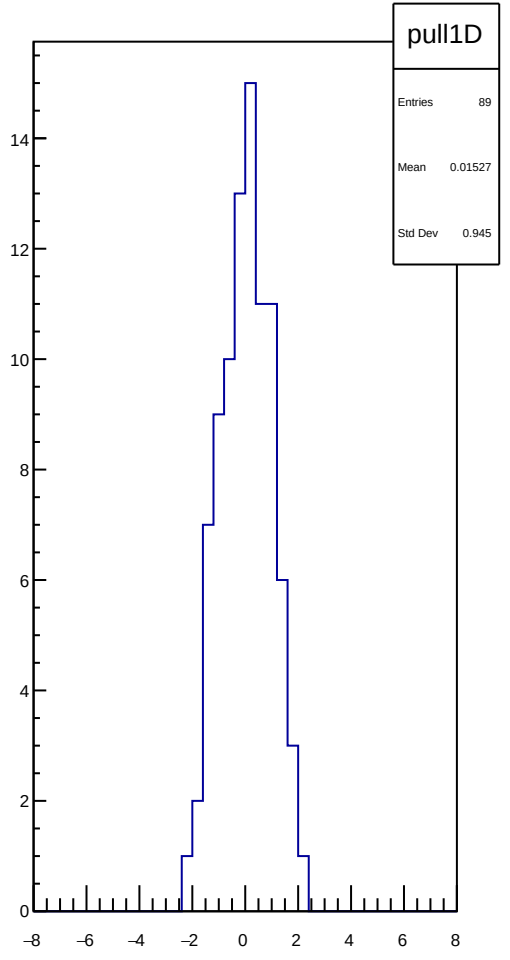

reg_asym_sam3_rms vs run
χ^2 / ndf 1.546e+04 / 88
p0 68.77 ± 0.05307
85
80
75
70
65
60

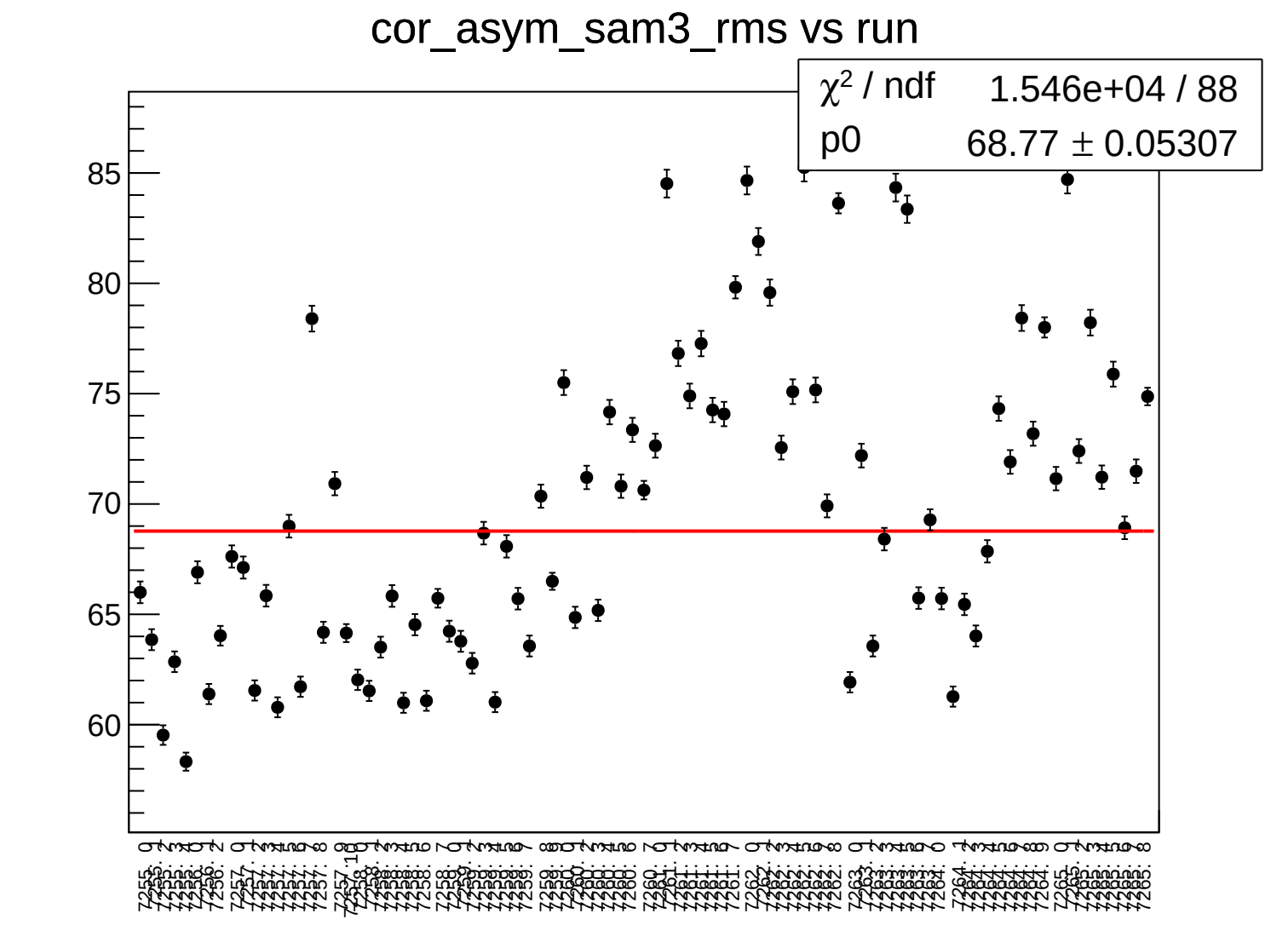

asym_sam3_reg_correction_mean vs run
χ² / ndf 87.72 / 88
p0 −1042 ± 647.1
pull
Entries 89
Mean −312.5
Std Dev 0

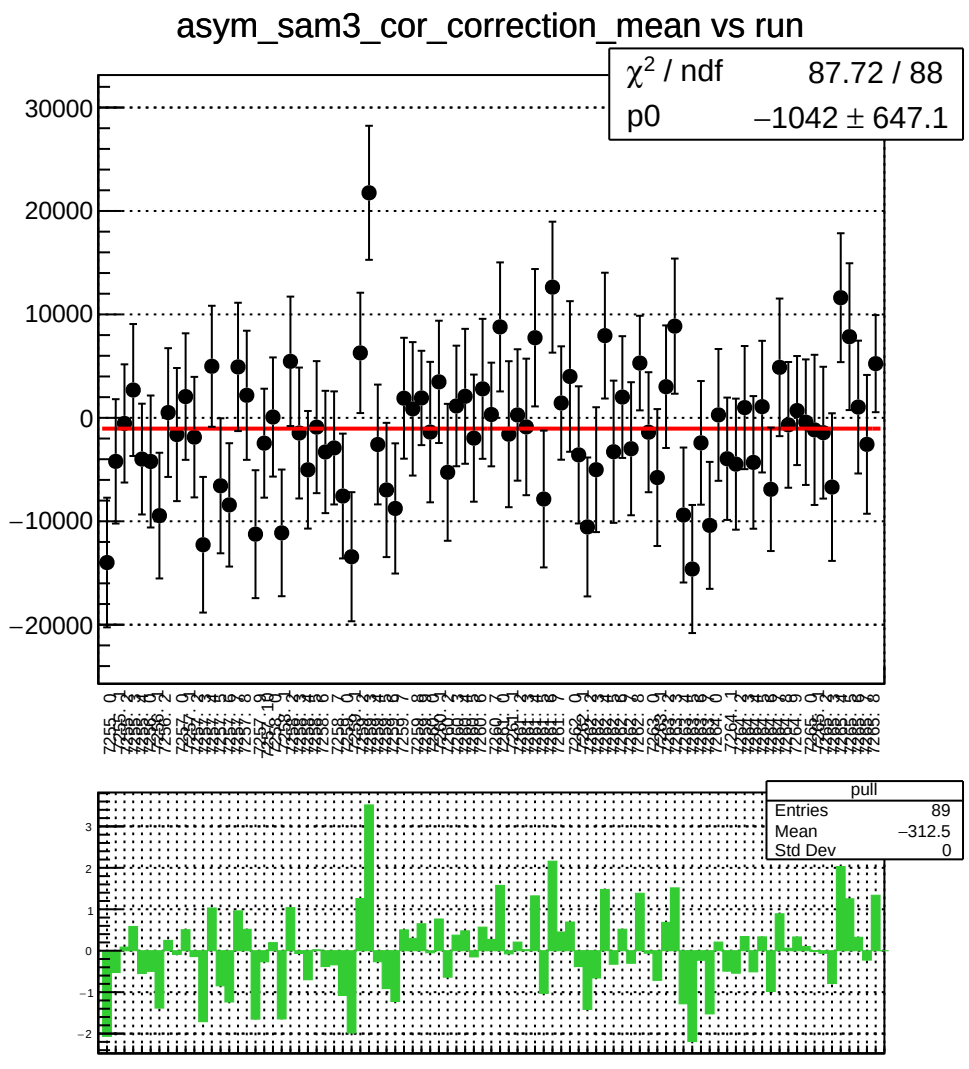

pull1D
Entries 89
Mean −0.01254
Std Dev 0.9927

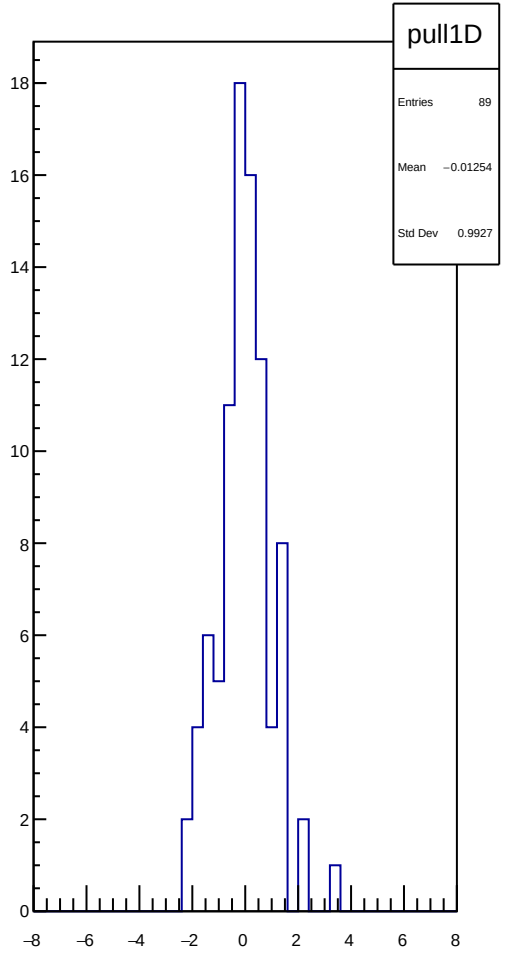

asym_sam3_reg_correction_rms vs run
χ² / ndf 5248 / 88
p0 594.8 ± 0.4576
700
680
660
640
620
600
580
560
540
520

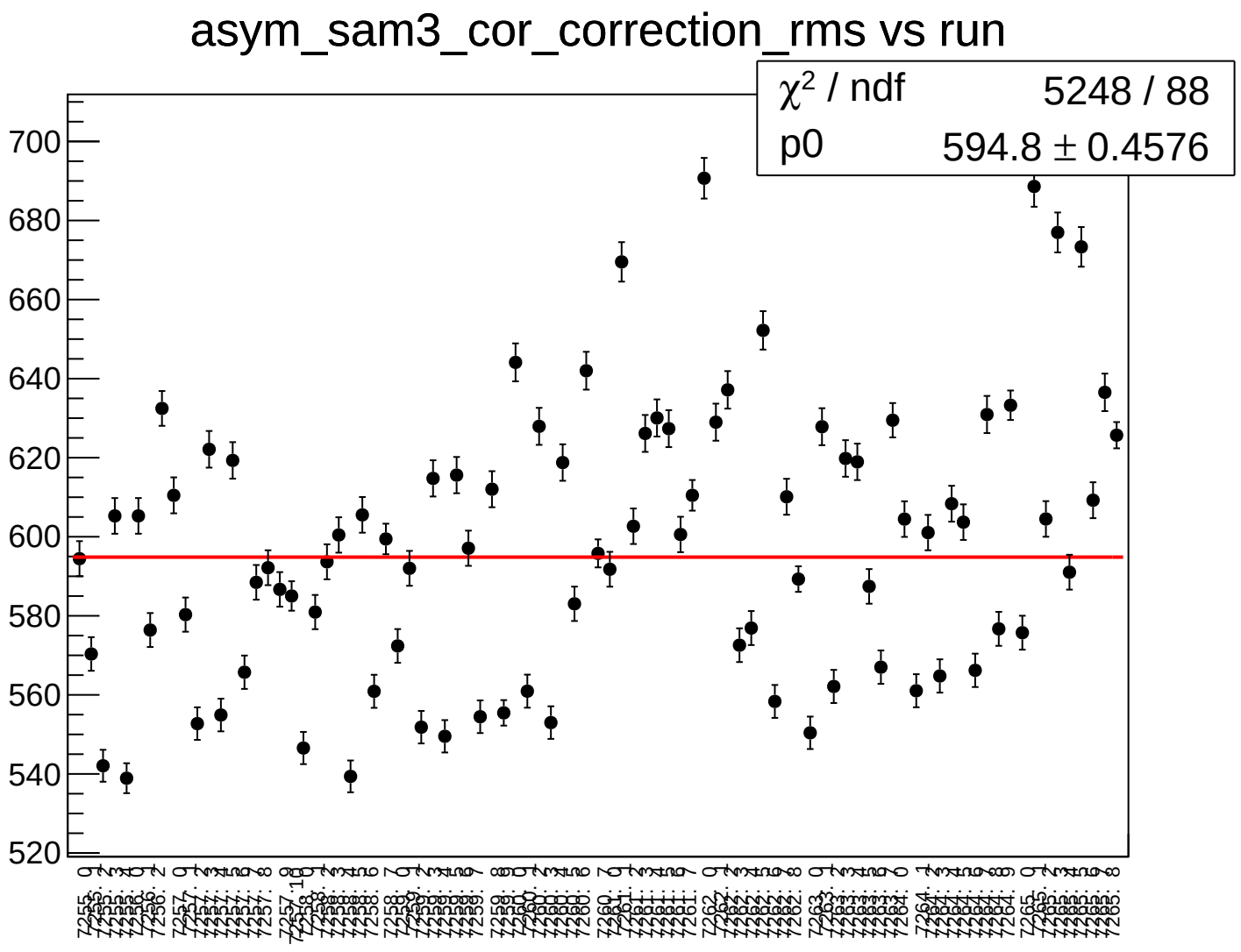

cor_asym_sam3_mean vs run
χ² / ndf 79.5 / 88
p0 −58.65 ± 75.05
pull
Entries 89
Mean 36.89
Std Dev 0

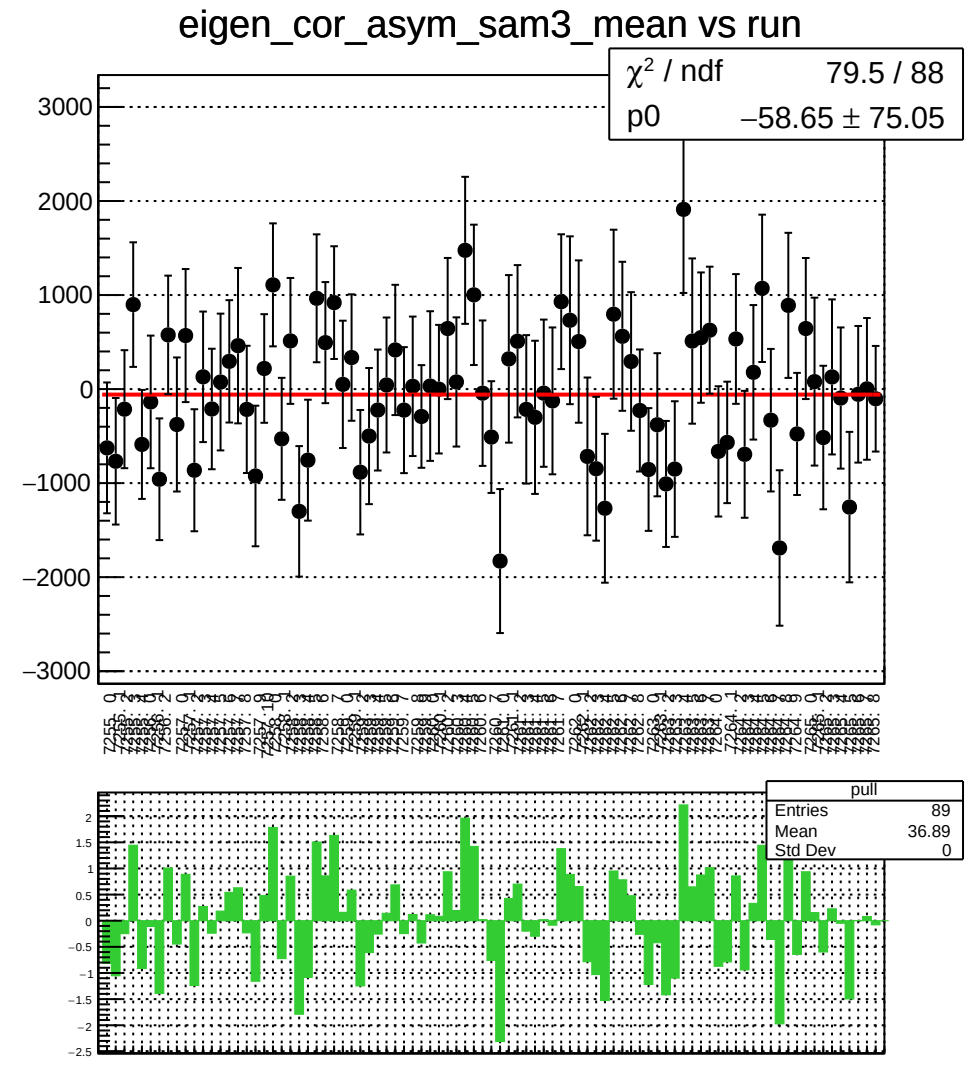

pull1D
Entries 89
Mean 0.01527
Std Dev 0.945

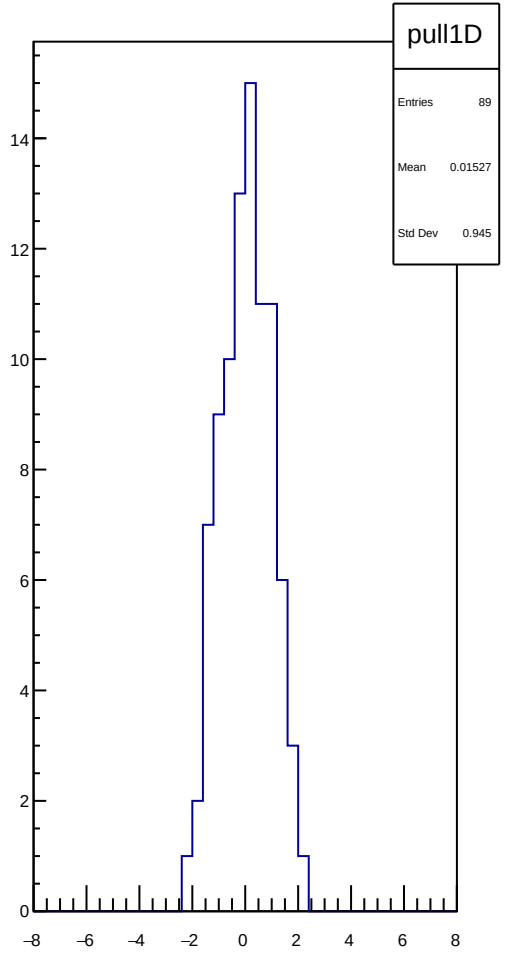

cor_asym_sam3_rms vs run
χ² / ndf 1.546e+04 / 88
p0 68.77 ± 0.05307
85
80
75
70
65
60

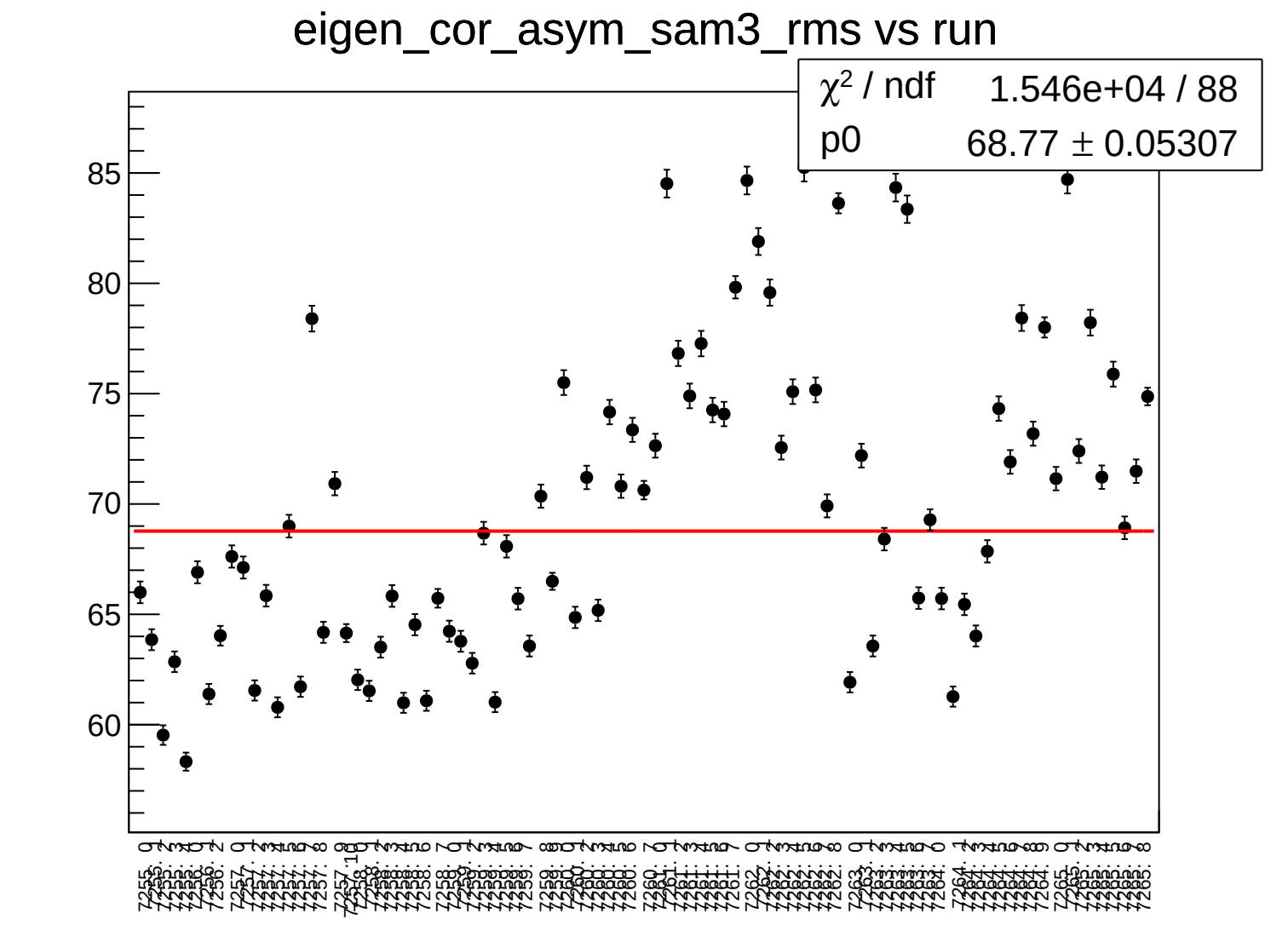

asym_sam3_cor_correction_mean vs run
χ² / ndf 87.72 / 88
p0 −1042 ± 647.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −312.5
Std Dev 0
3
2
1
0
−1
−2

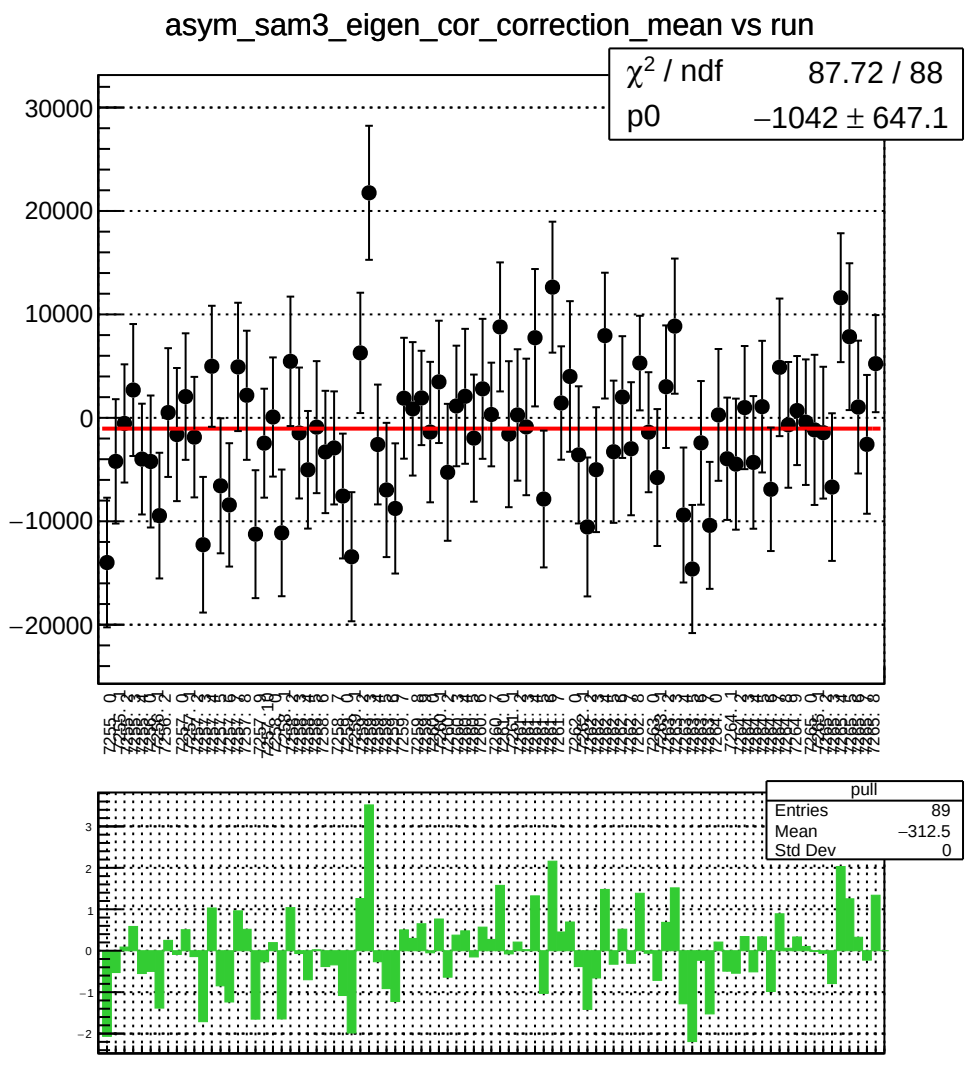

pull1D
Entries 89
Mean −0.01254
Std Dev 0.9927
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

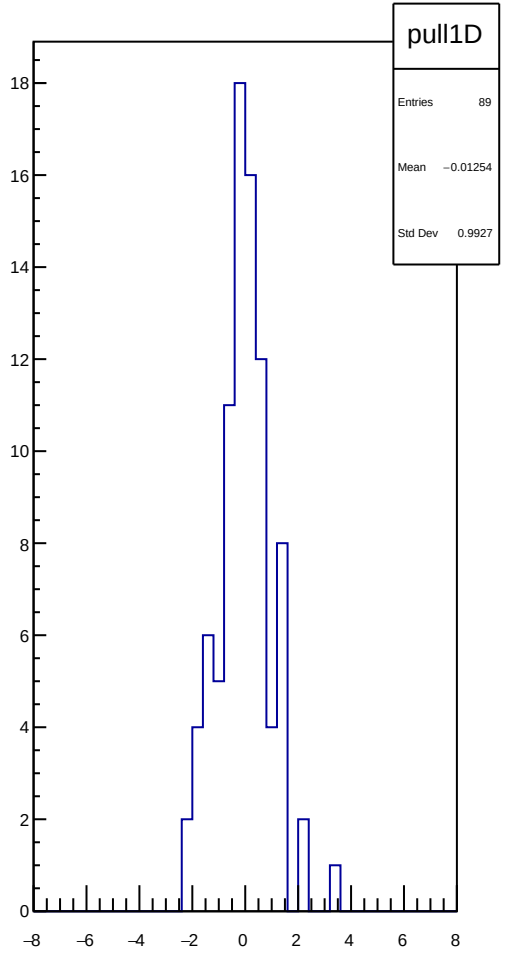

asym_sam3_cor_correction_rms vs run
χ² / ndf 5248 / 88
p0 594.8 ± 0.4576
700
680
660
640
620
600
580
560
540
520

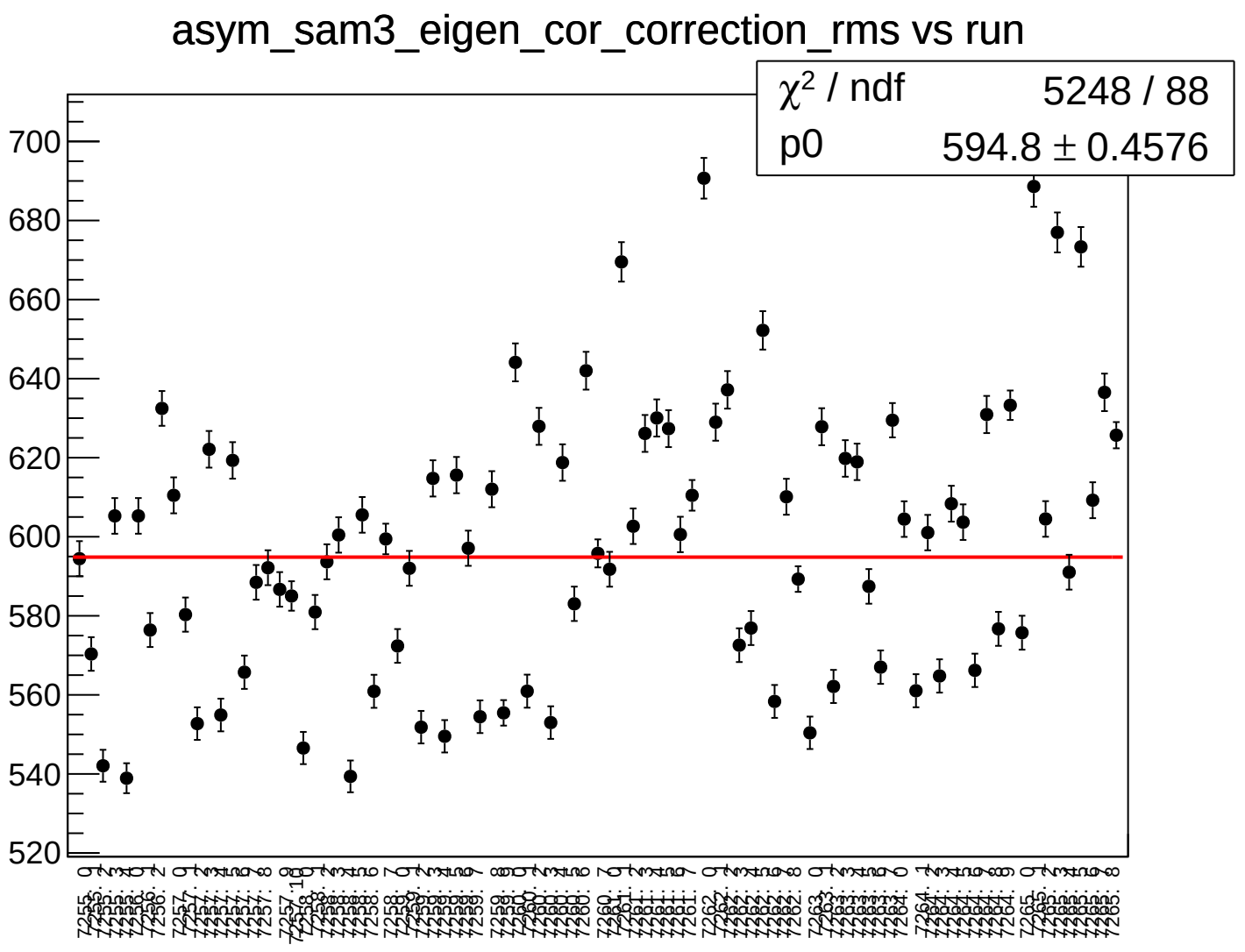

eigen_cor_asym_sam3_mean vs run
χ² / ndf 79.5 / 88
p0 −58.65 ± 75.05
pull
Entries 89
Mean 36.89
Std Dev 0

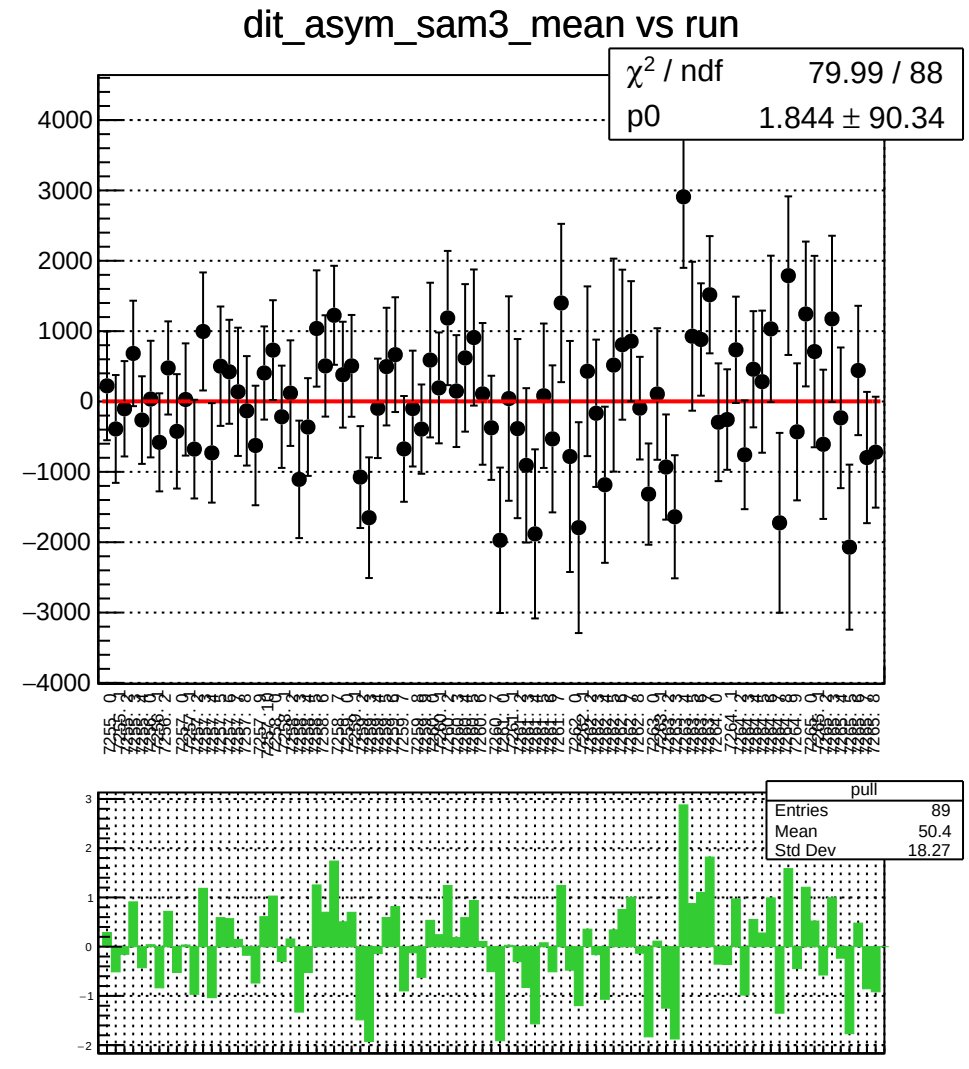

pull1D
Entries 89
Mean 0.01527
Std Dev 0.945

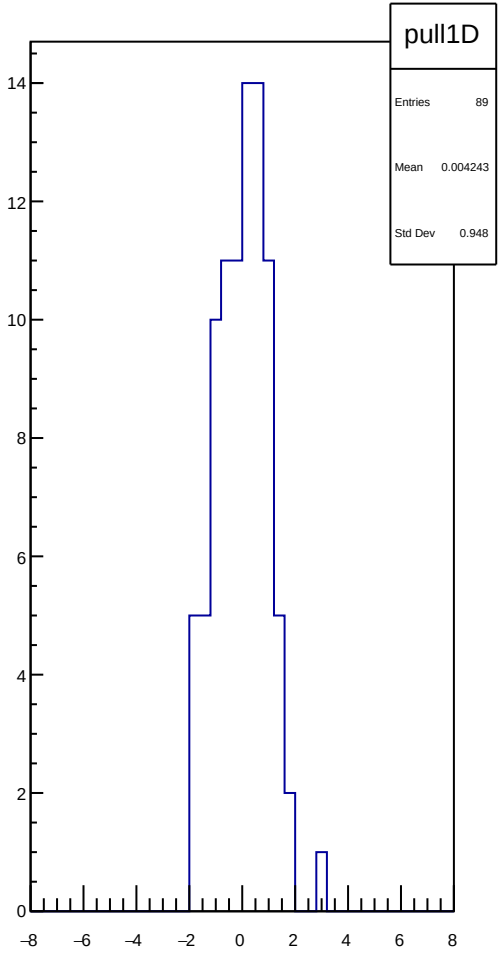

eigen_cor_asym_sam3_rms vs run
χ² / ndf 1.546e+04 / 88
p0 68.77 ± 0.05307
85
80
75
70
65
60

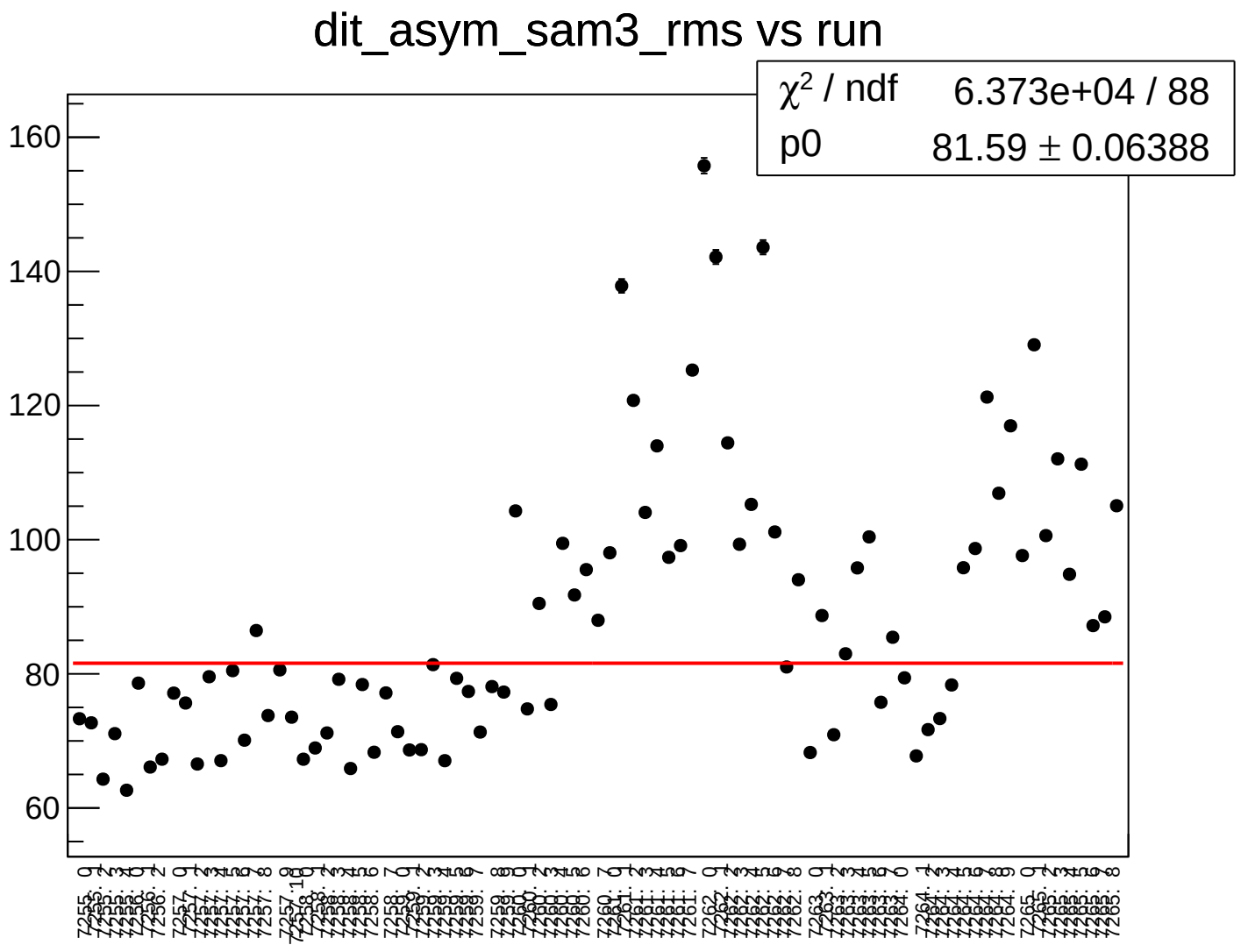

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 87.72 / 88
p0 −1042 ± 647.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −312.5
Std Dev 0
3
2
1
0
−1
−2

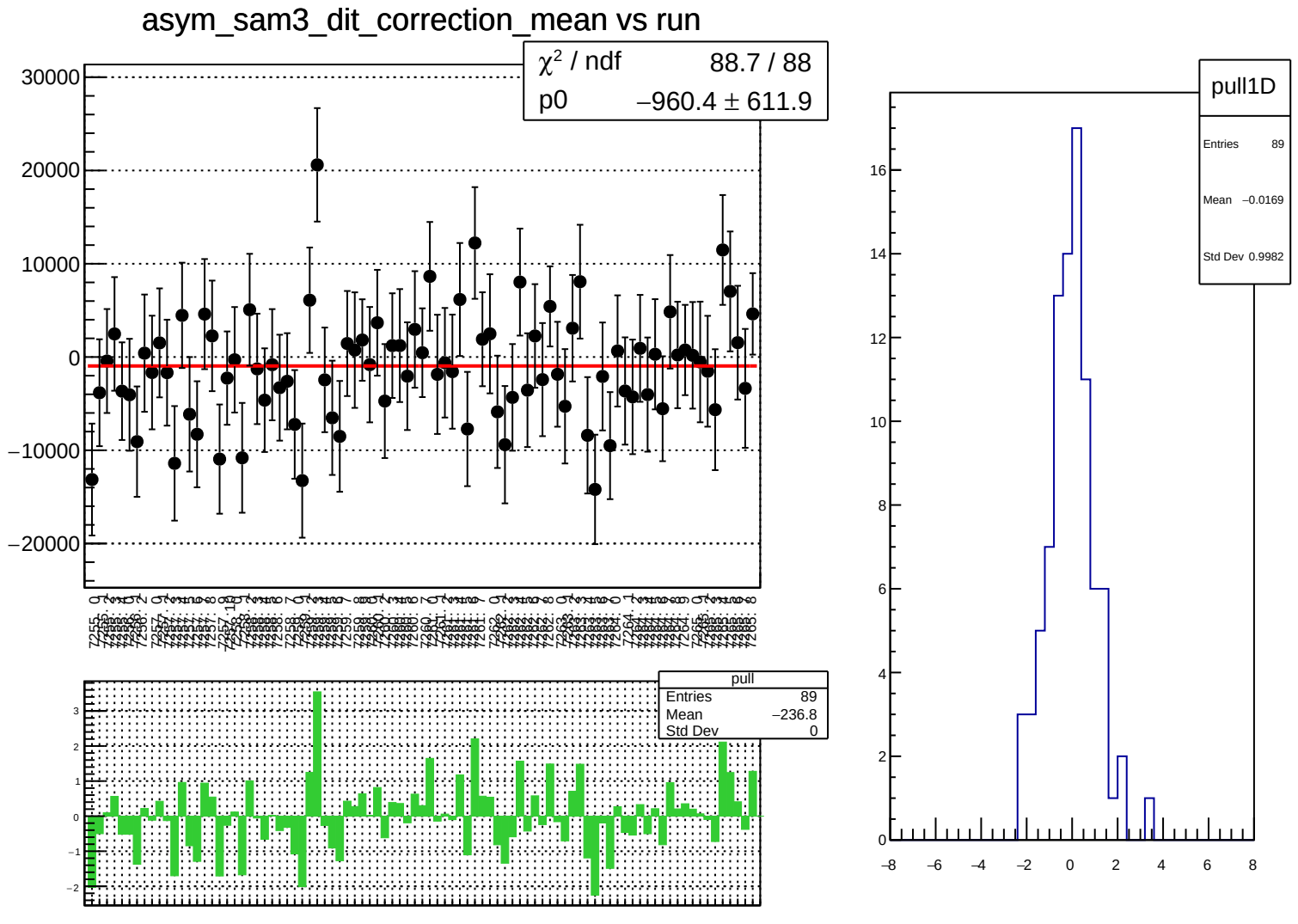

pull1D
Entries 89
Mean −0.01254
Std Dev 0.9927
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

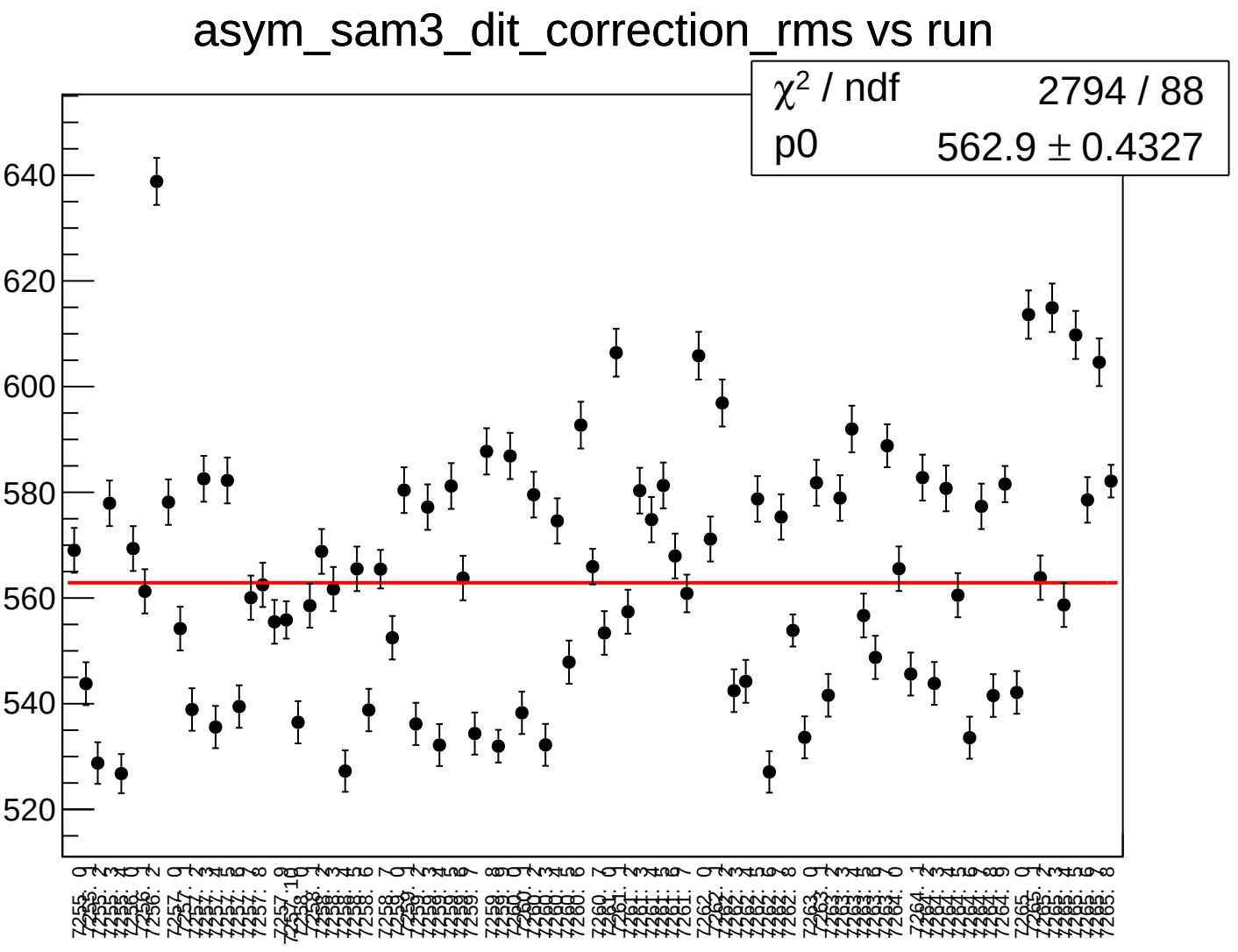

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 5248 / 88
p0 594.8 ± 0.4576
700
680
660
640
620
600
580
560
540
520

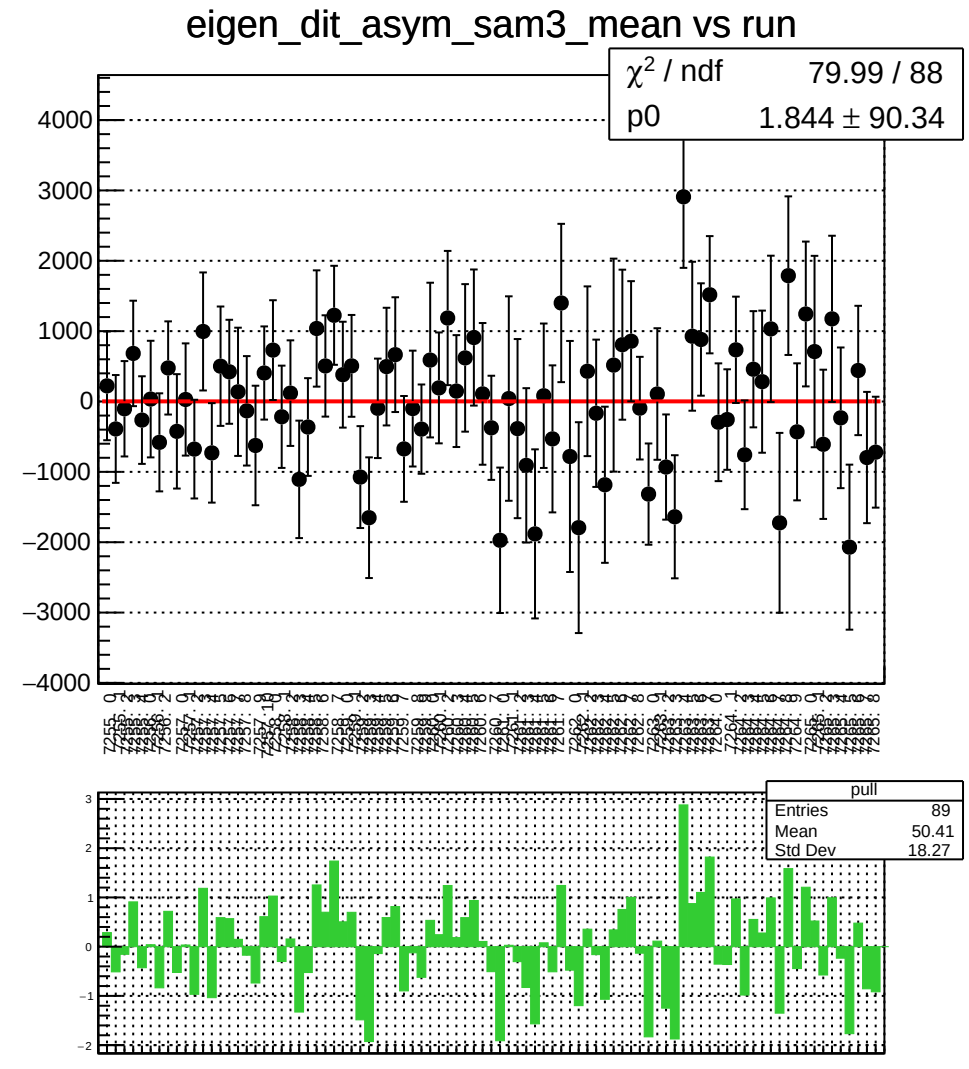

dit_asym_sam3_mean vs run
χ^2 / ndf 79.99 / 88
p0 1.844 ± 90.34
pull
Entries 89
Mean 50.4
Std Dev 18.27

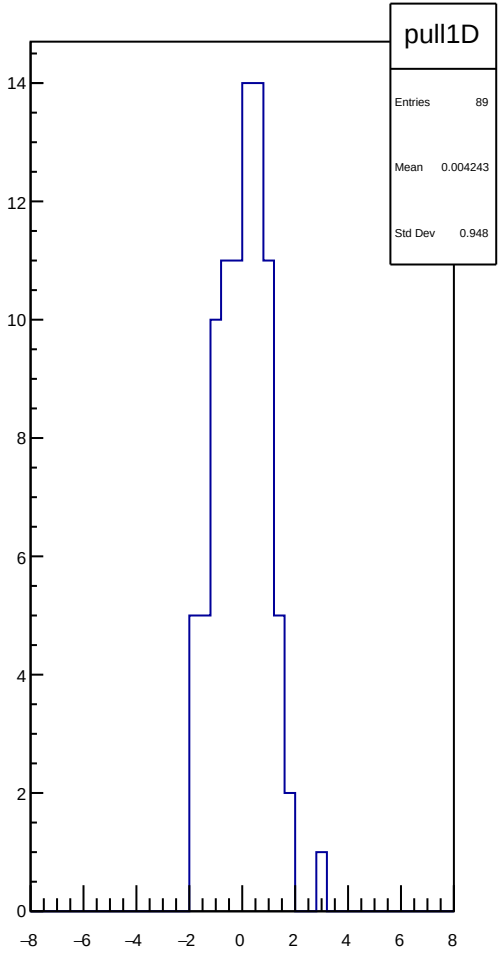

pull1D
Entries 89
Mean 0.004243
Std Dev 0.948

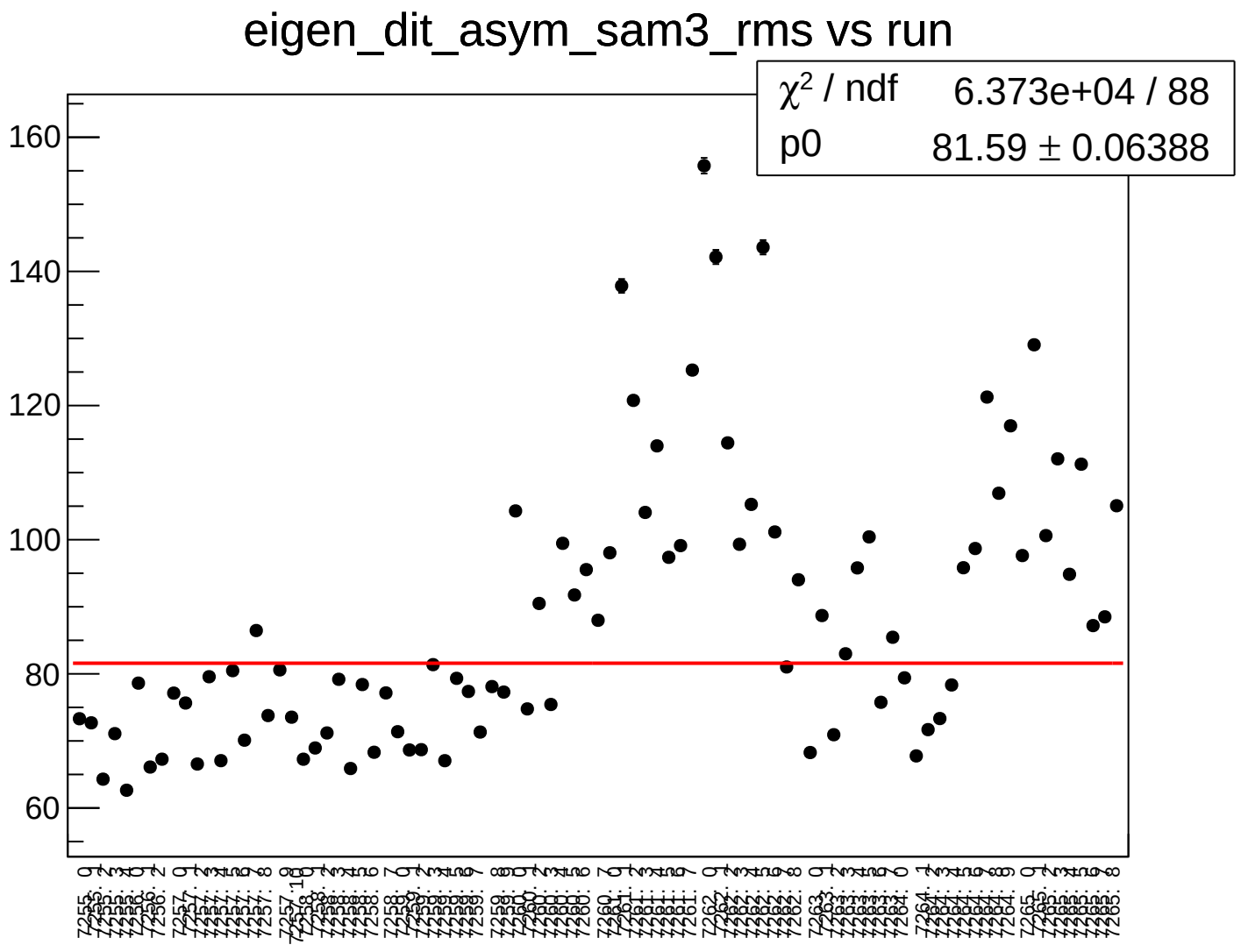

dit_asym_sam3_rms vs run
χ² / ndf 6.373e+04 / 88
p0 81.59 ± 0.06388
160
140
120
100
80
60

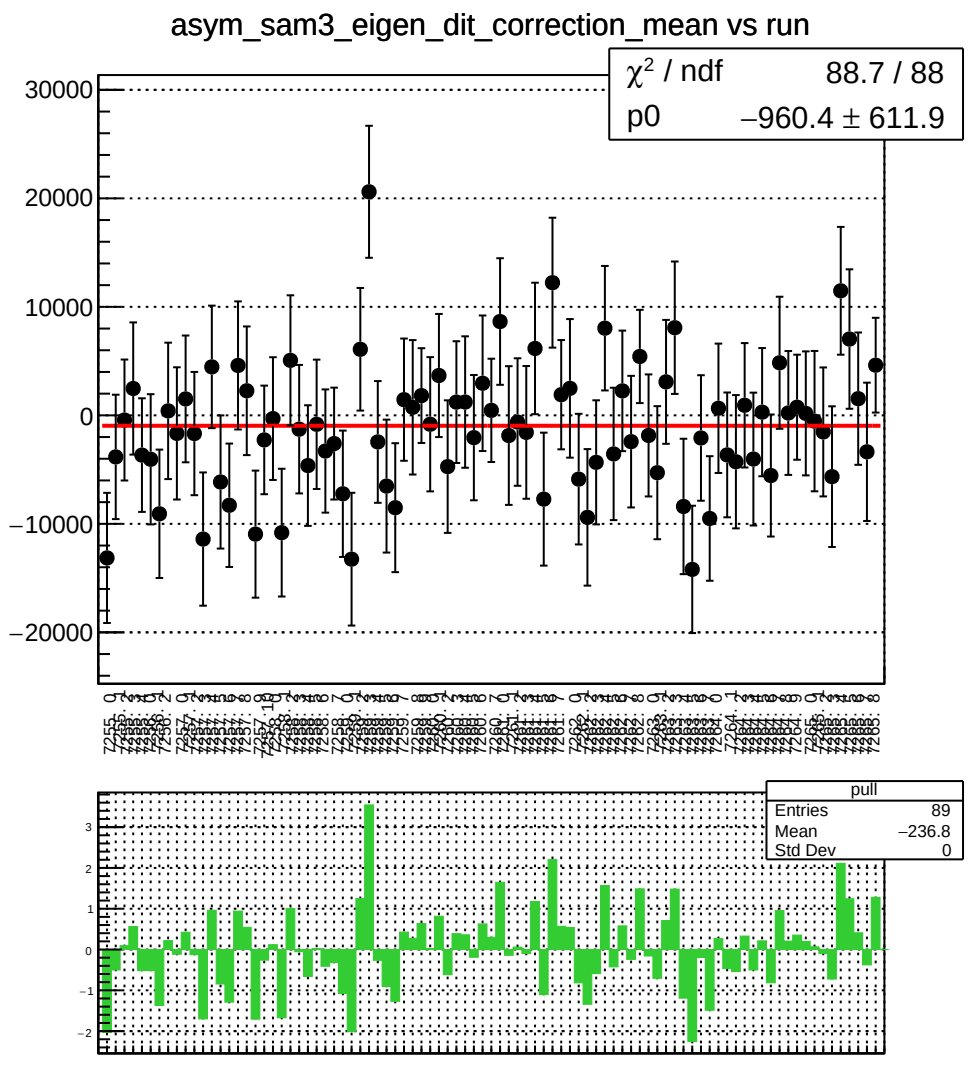

asym_sam3_dit_correction_mean vs run
χ² / ndf 88.7 / 88
p0 −960.4 ± 611.9
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −236.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.0169
Std Dev 0.9982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

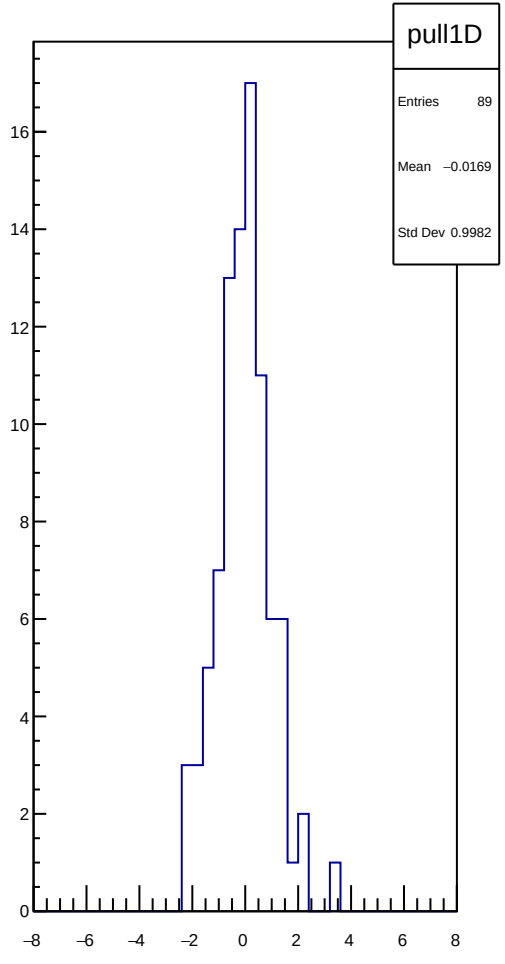

asym_sam3_dit_correction_rms vs run
χ² / ndf 2794 / 88
p0 562.9 ± 0.4327
640
620
600
580
560
540
520

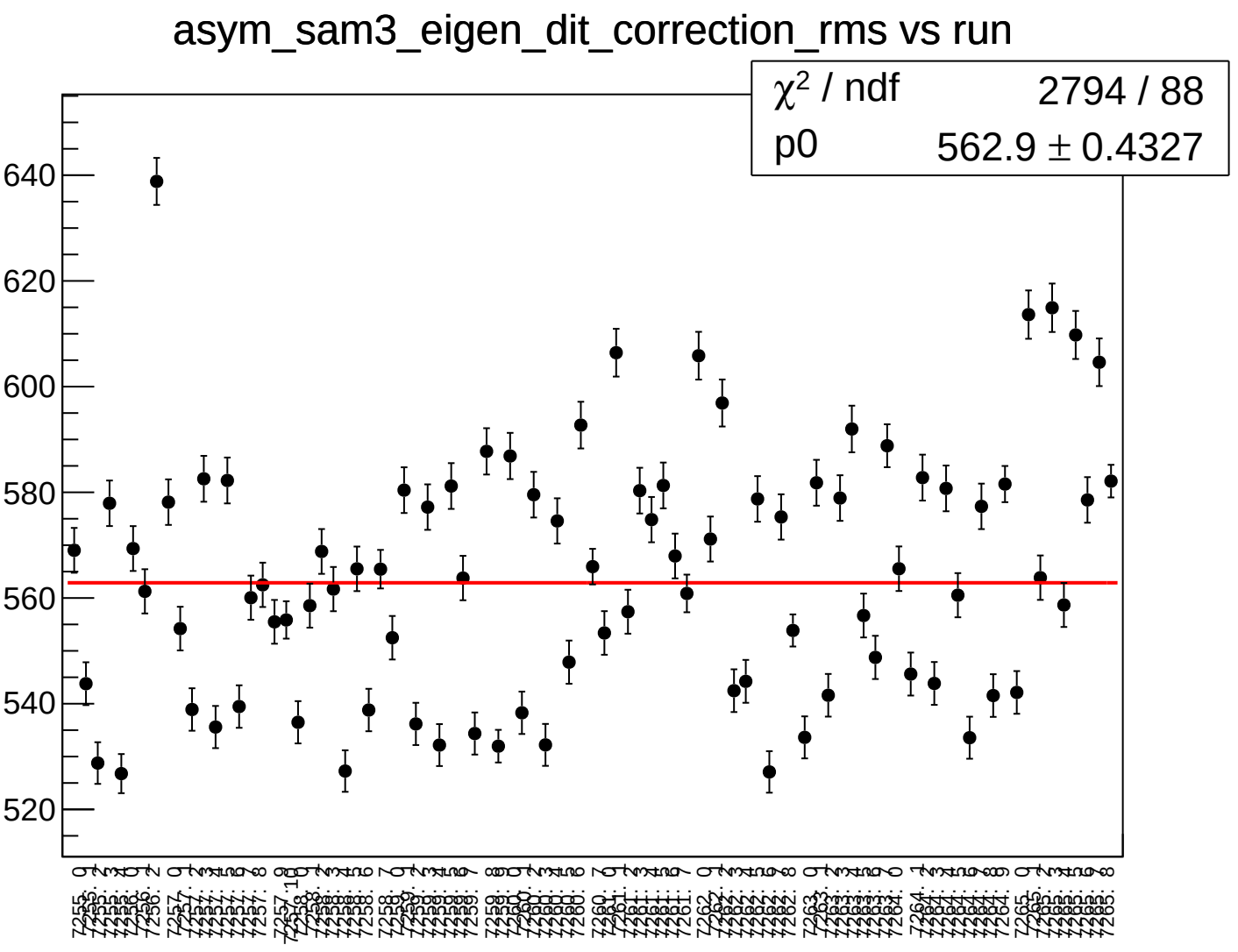

eigen_dit_asym_sam3_mean vs run
χ^2 / ndf 79.99 / 88
p0 1.844 ± 90.34
pull
Entries 89
Mean 50.41
Std Dev 18.27

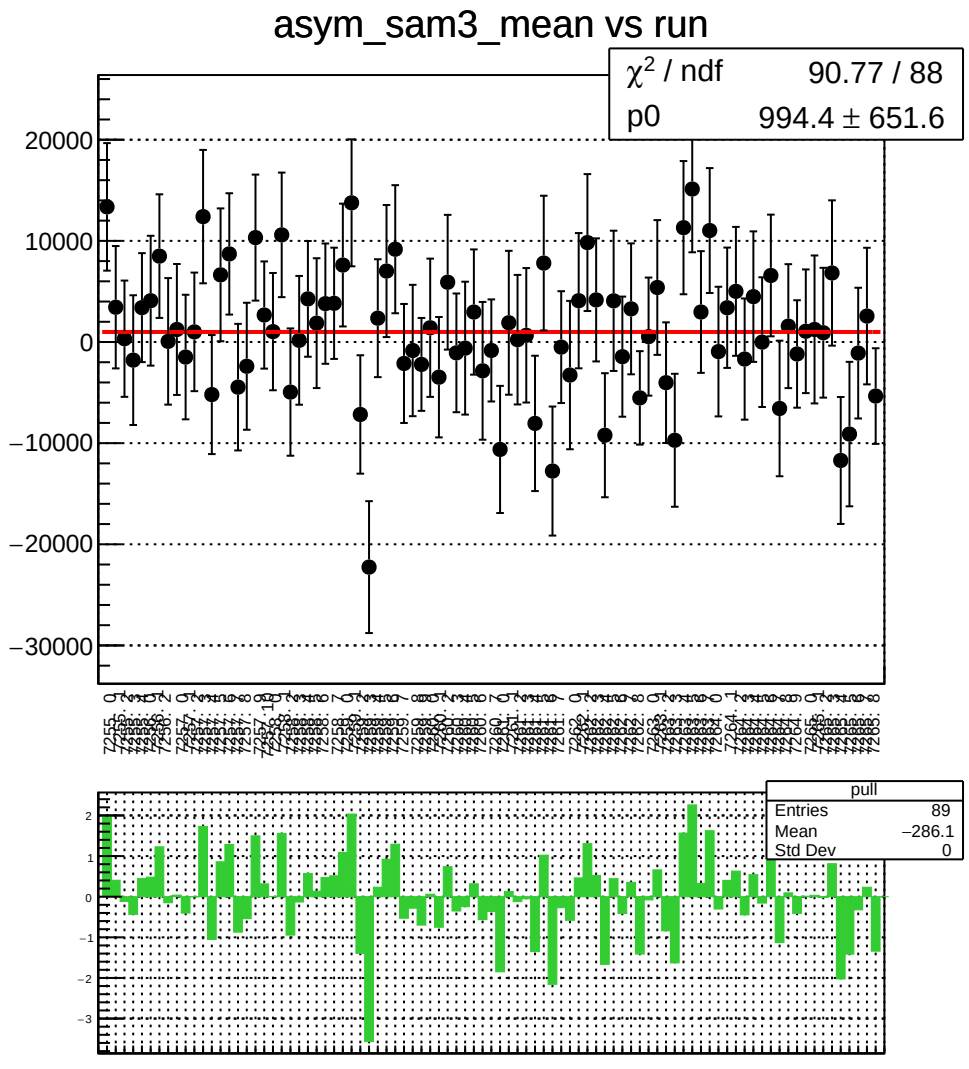

pull1D
Entries 89
Mean 0.004243
Std Dev 0.948

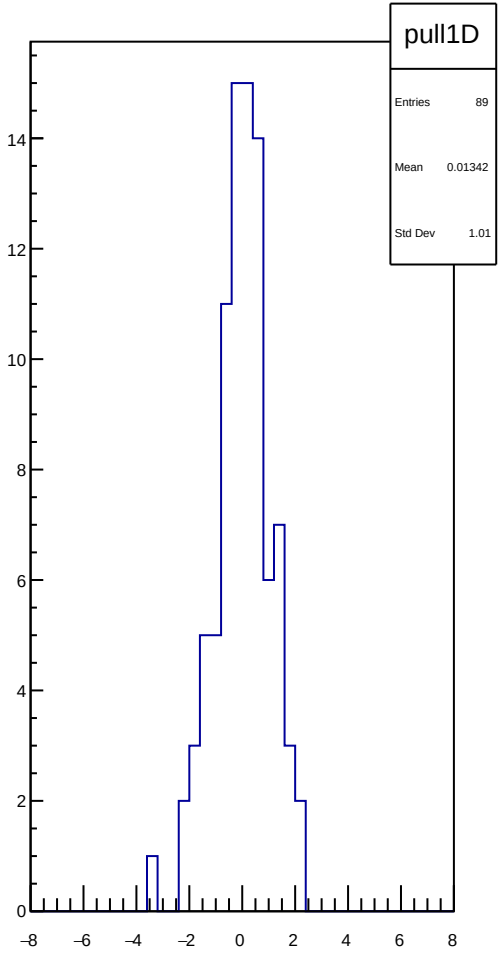

eigen_dit_asym_sam3_rms vs run
χ² / ndf 6.373e+04 / 88
p0 81.59 ± 0.06388
160
140
120
100
80
60

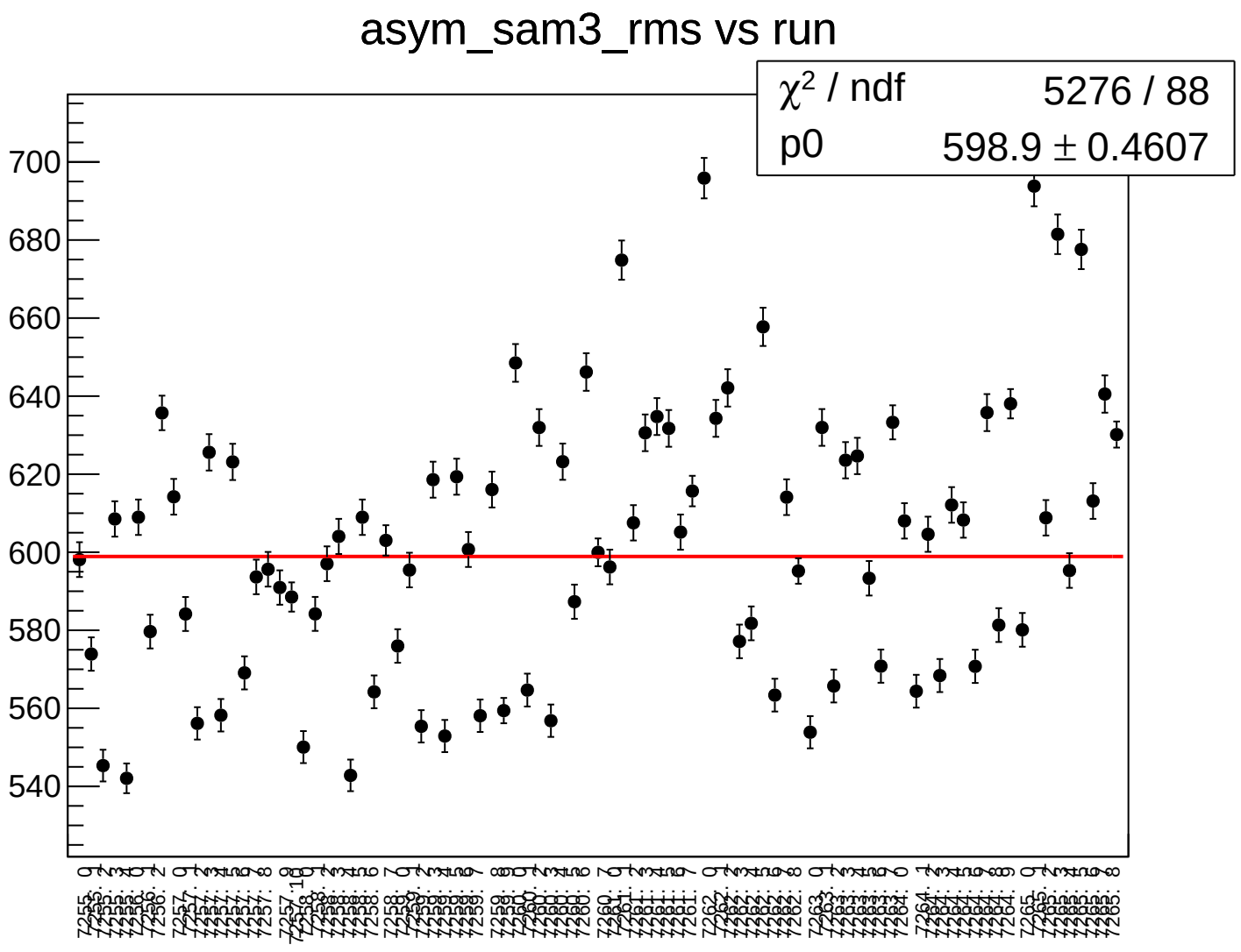

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 88.7 / 88
p0 −960.4 ± 611.9
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −236.8
Std Dev 0
3
2
1
0
−1
−2

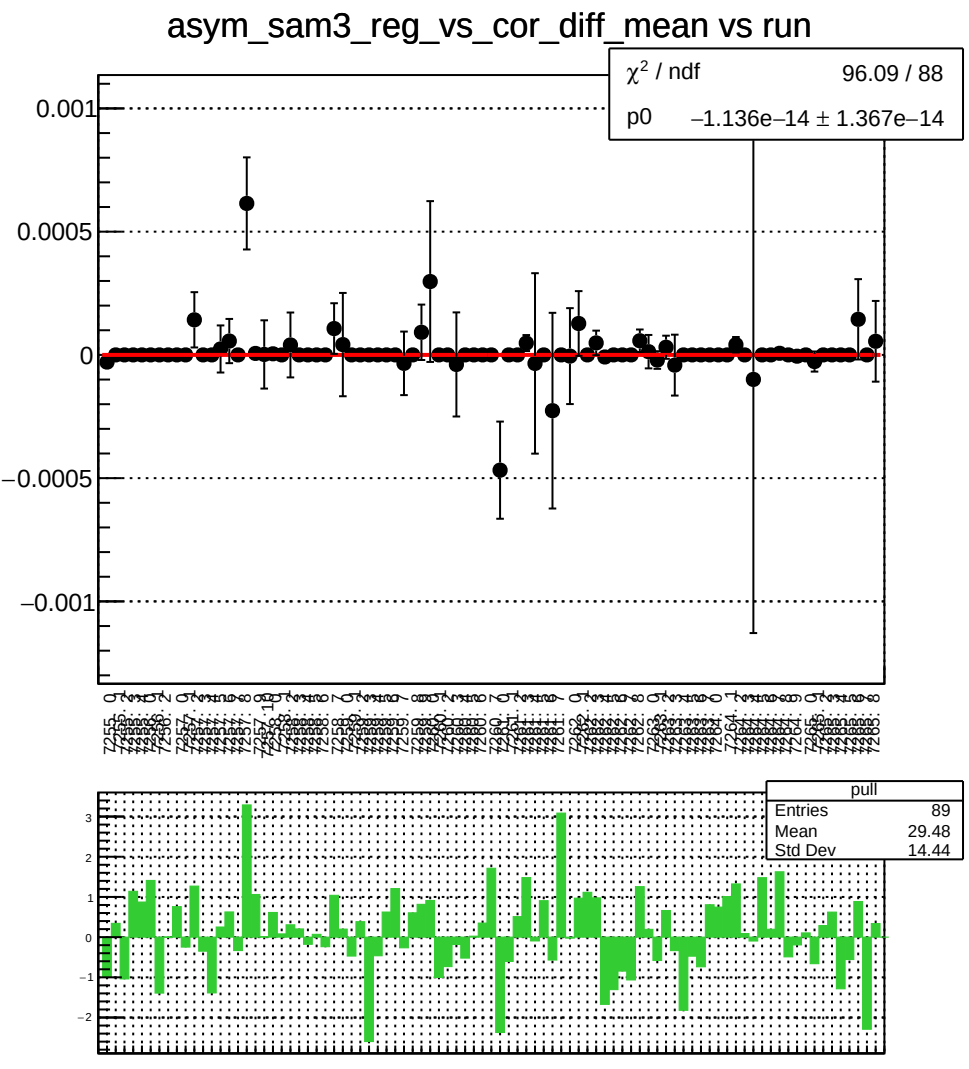

pull1D
Entries 89
Mean −0.0169
Std Dev 0.9982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

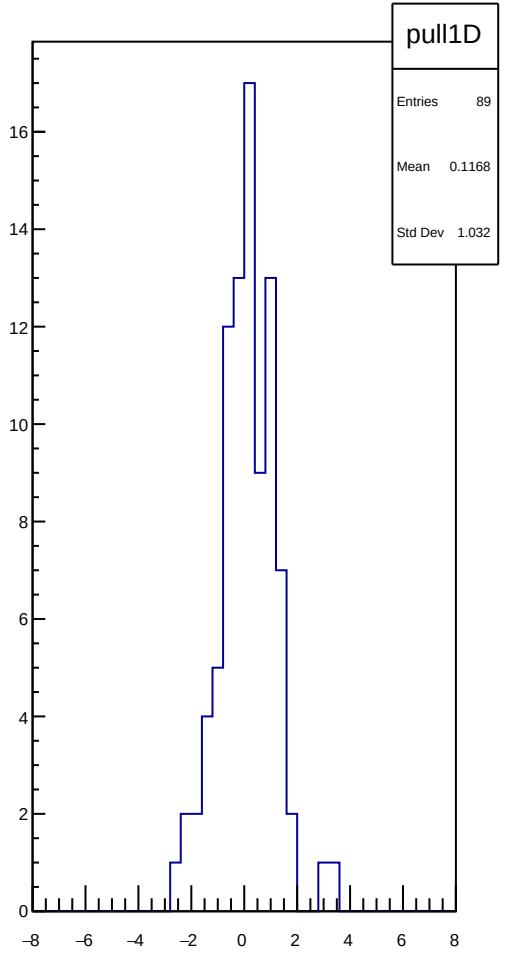

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 2794 / 88
p0 562.9 ± 0.4327
640
620
600
580
560
540
520

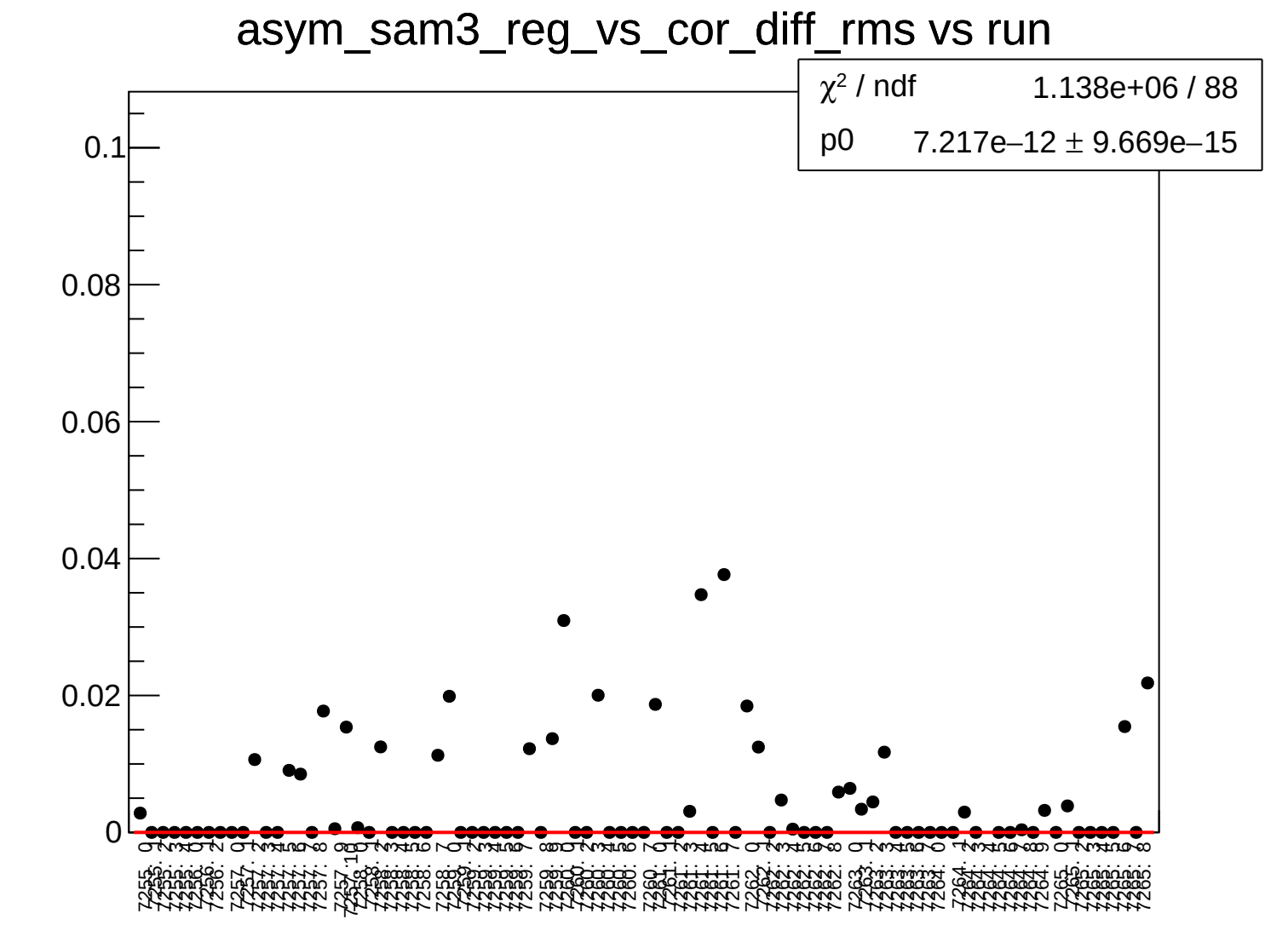

asym_sam3_mean vs run
χ² / ndf 90.77 / 88
p0 994.4 ± 651.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −286.1
Std Dev 0
2
1
0
−1
−2
−3

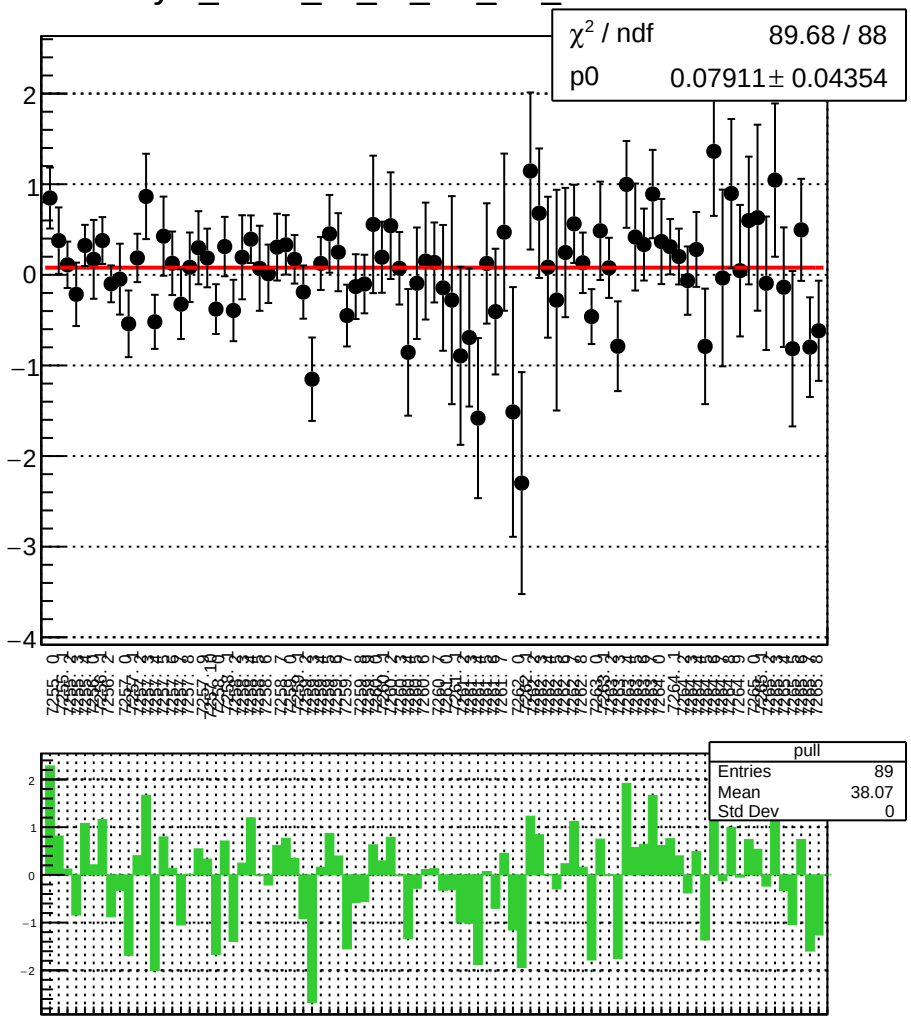

pull1D
Entries 89
Mean 0.01342
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

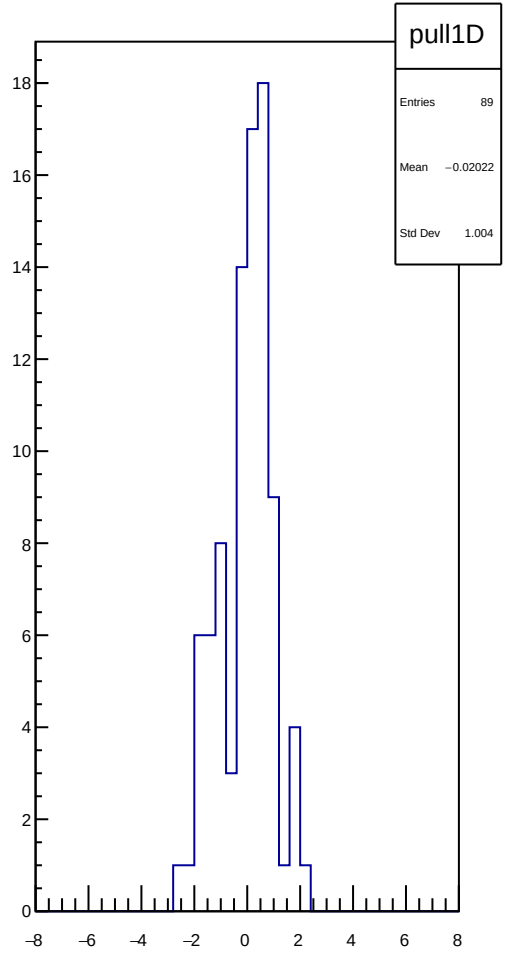

asym_sam3_rms vs run
χ² / ndf 5276 / 88
p0 598.9 ± 0.4607
700
680
660
640
620
600
580
560
540

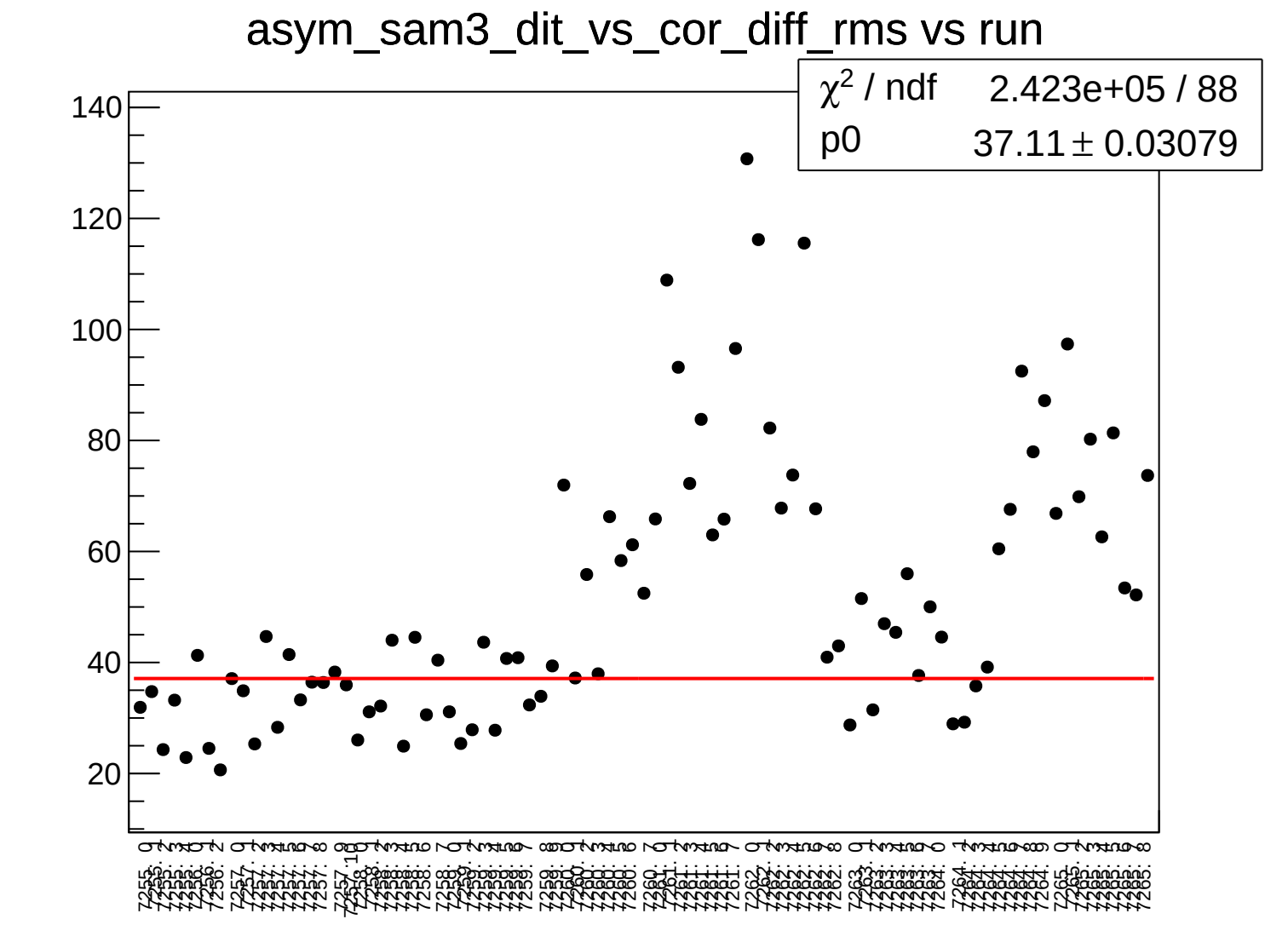

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 96.09 / 88
p0 −1.136e−14 ± 1.367e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 29.48
Std Dev 14.44
3
2
1
0
−1
−2

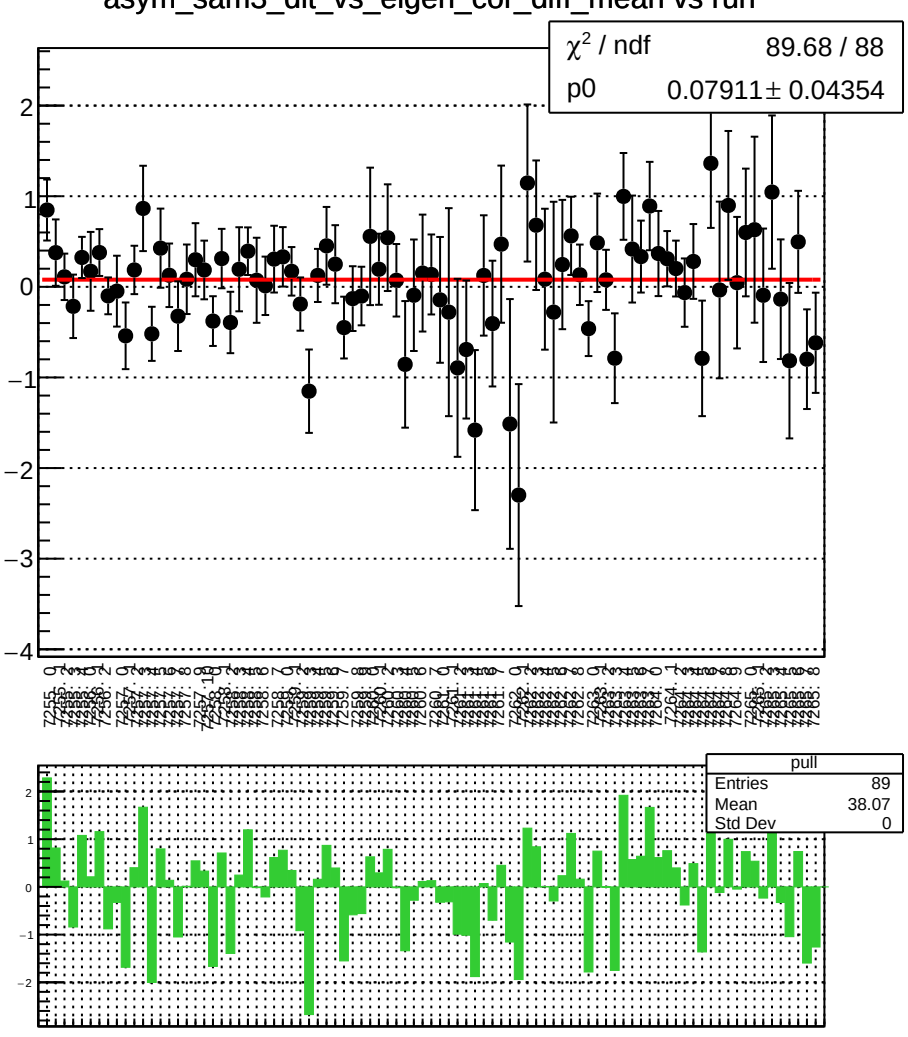

pull1D
Entries 89
Mean 0.1168
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

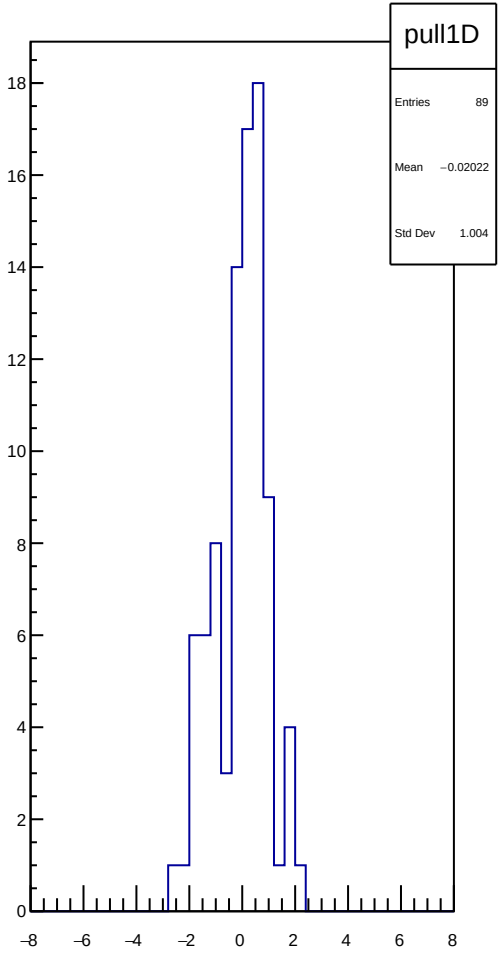

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.138e+06 / 88
p0 7.217e−12 ± 9.669e−15
0.1
0.08
0.06
0.04
0.02
0

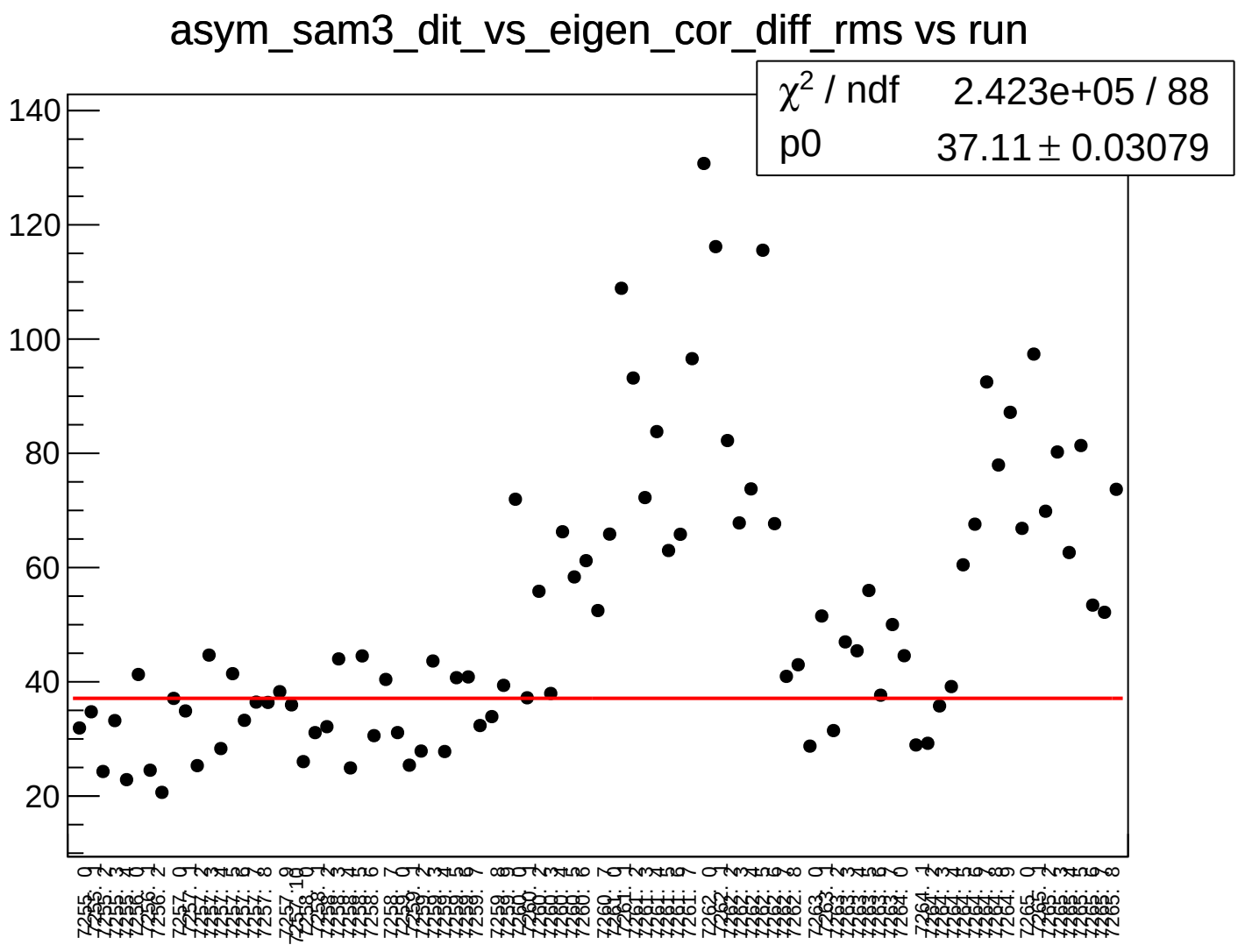

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 89.68 / 88
p0 0.07911 ± 0.04354
pull
Entries 89
Mean 38.07
Std Dev 0

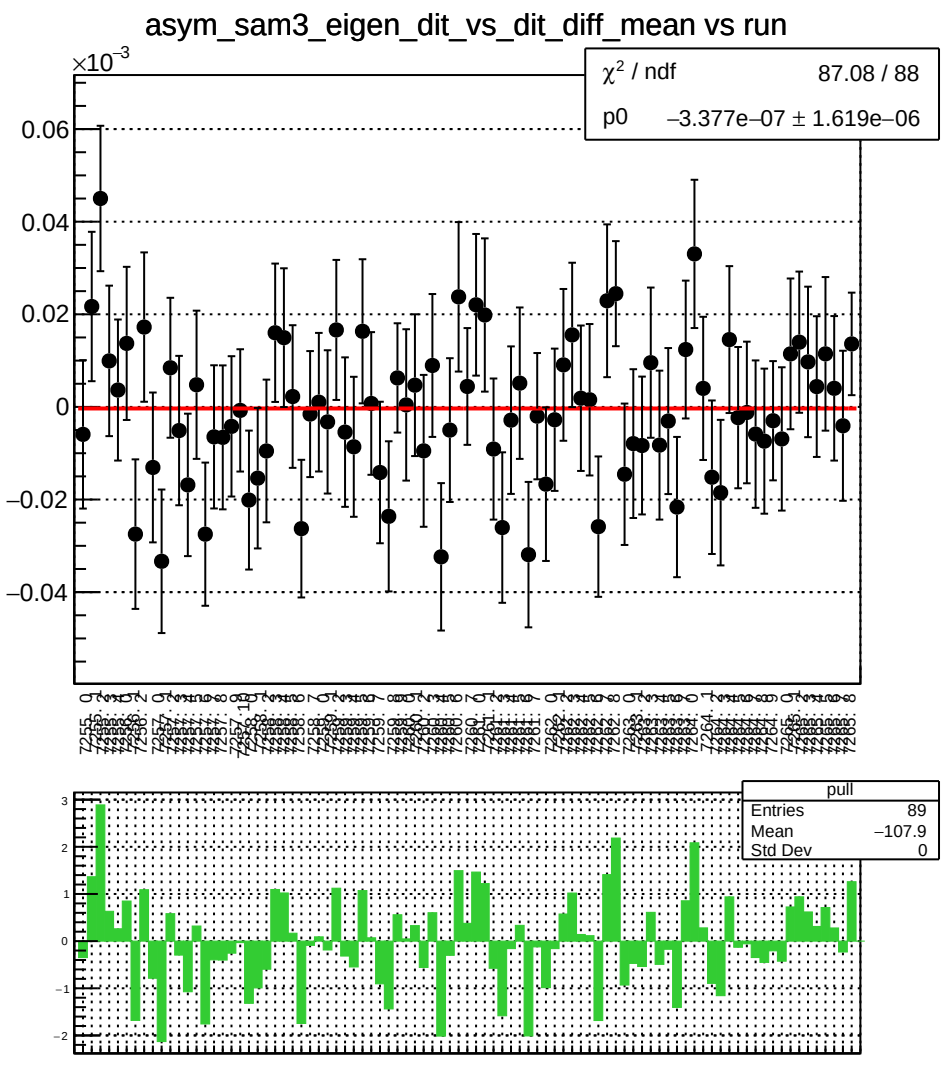

pull1D
Entries 89
Mean −0.02022
Std Dev 1.004

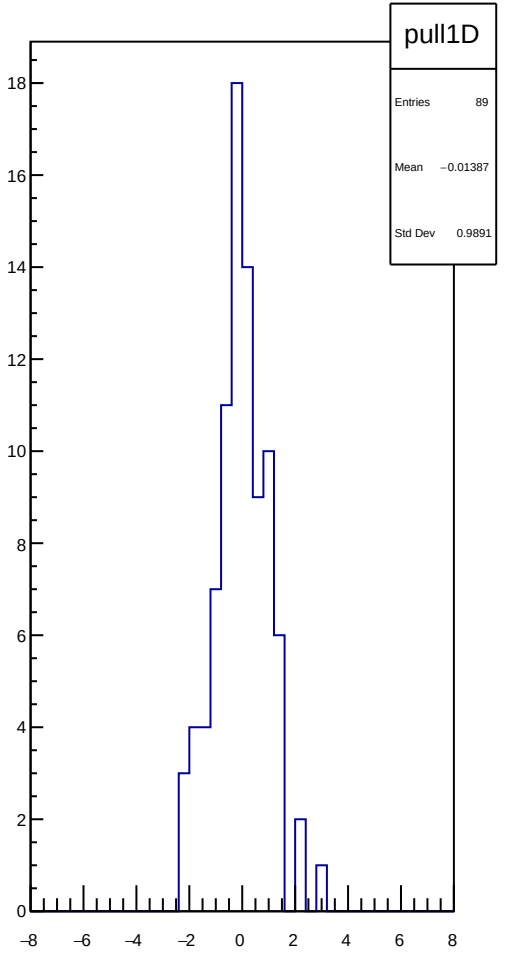

asym_sam3_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.423e+05 / 88
p0 37.11 ± 0.03079
140
120
100
80
60
40
20

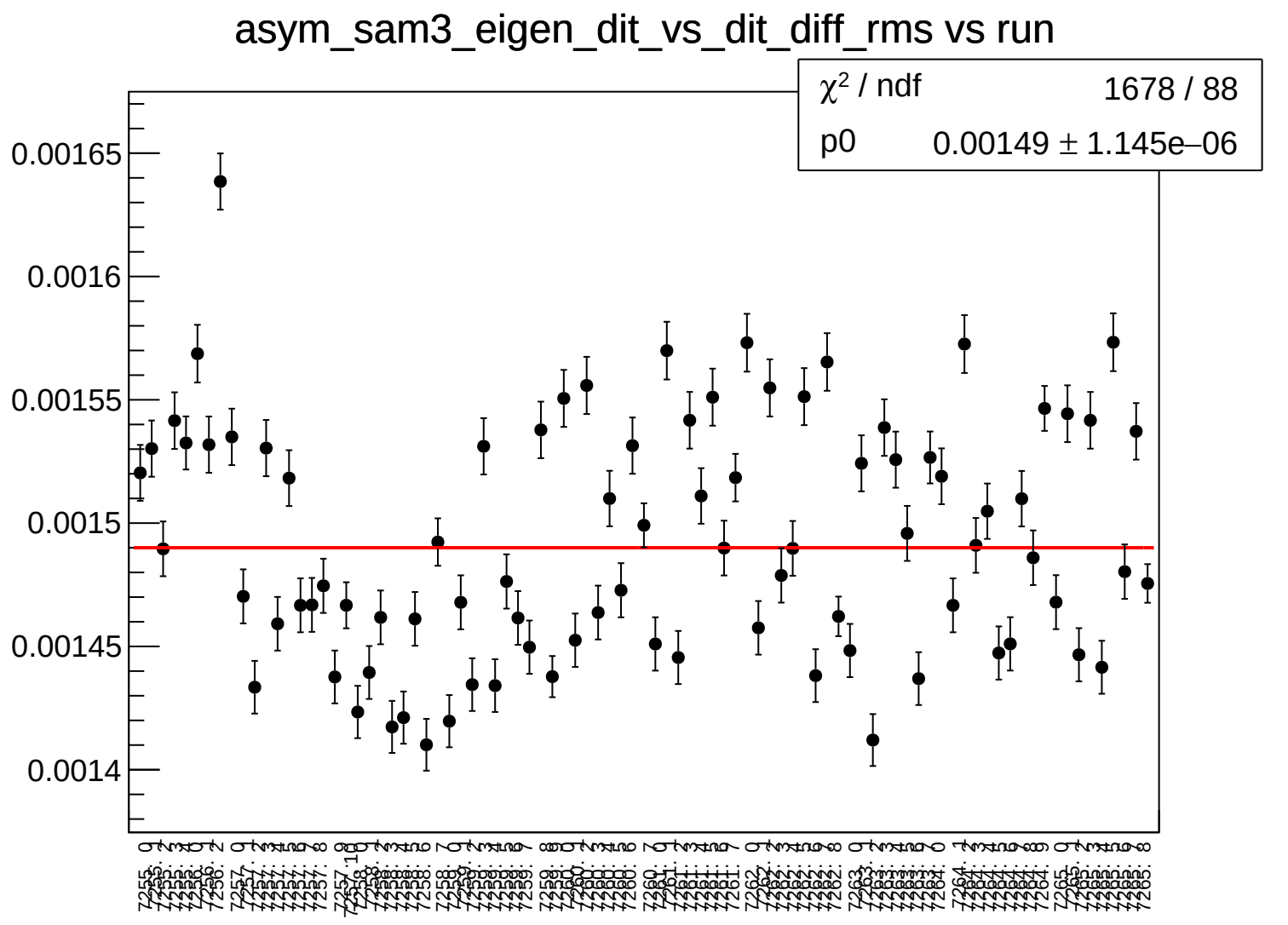

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.68 / 88
p0 0.07911 ± 0.04354
pull
Entries 89
Mean 38.07
Std Dev 0

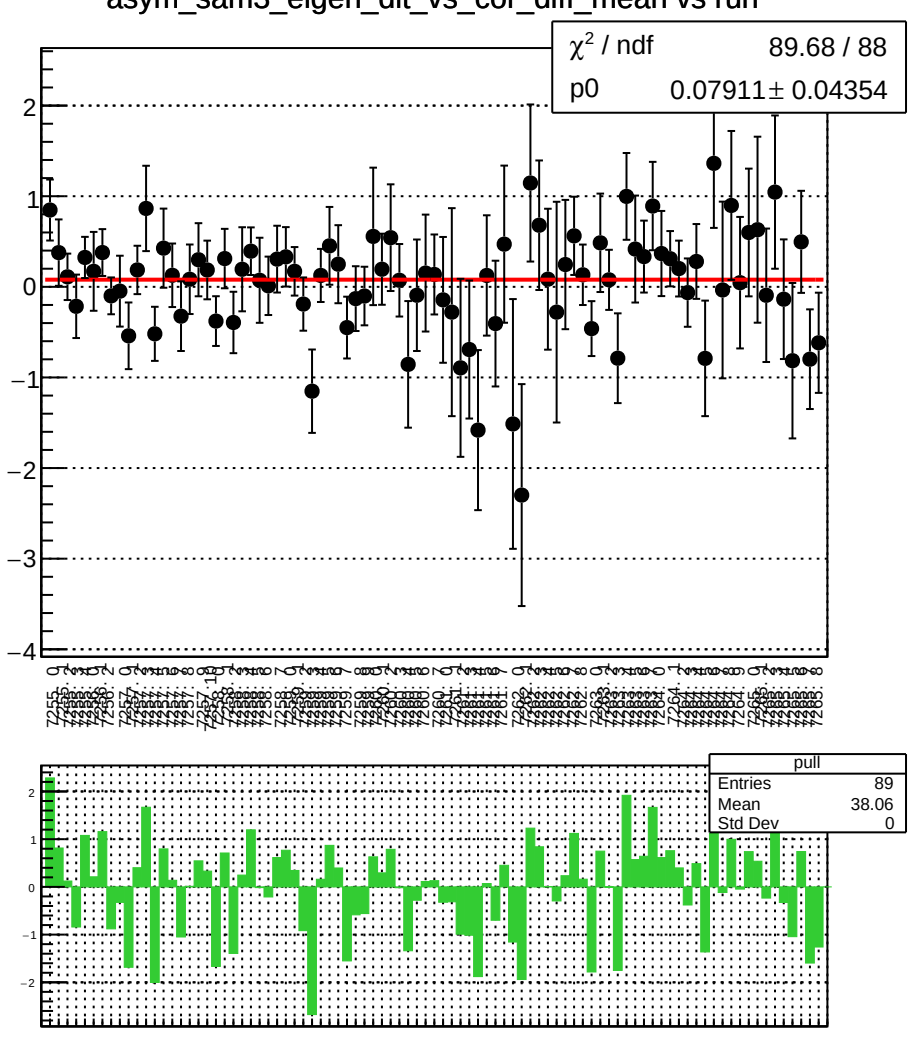

pull1D
Entries 89
Mean −0.02022
Std Dev 1.004

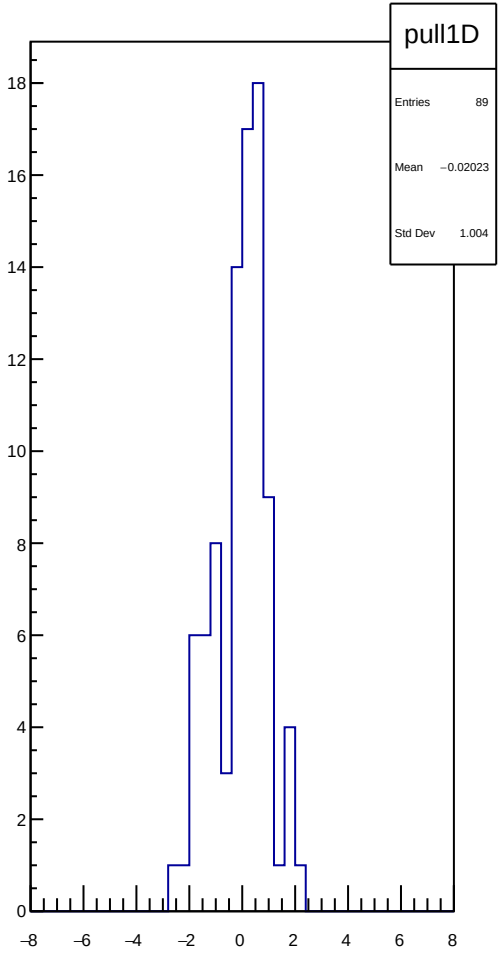

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.423e+05 / 88
p0 37.11 ± 0.03079
140
120
100
80
60
40
20

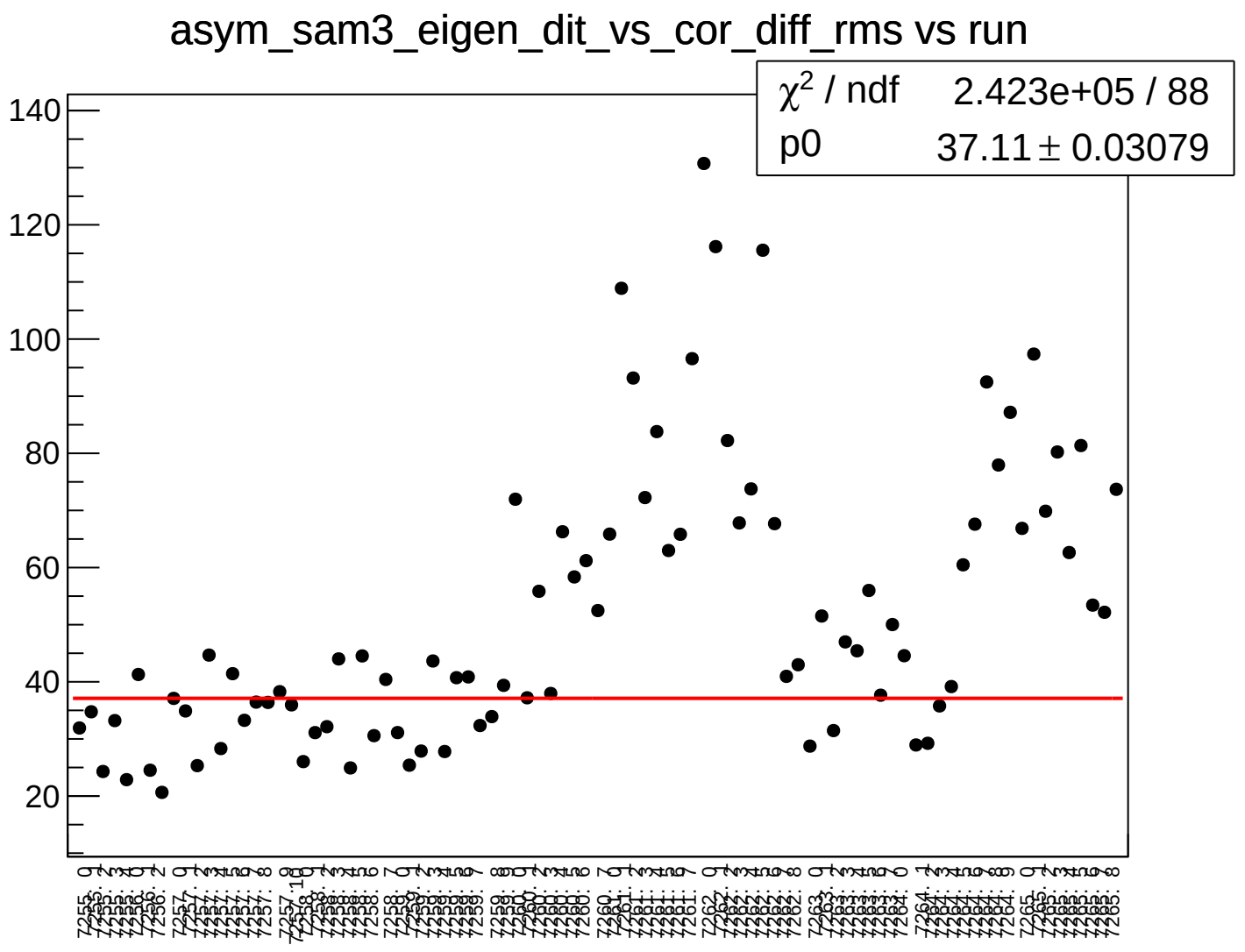

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.08 / 88
p0 −3.377e−07 ± 1.619e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean −107.9
Std Dev 0
3
2
1
0
−1
−2

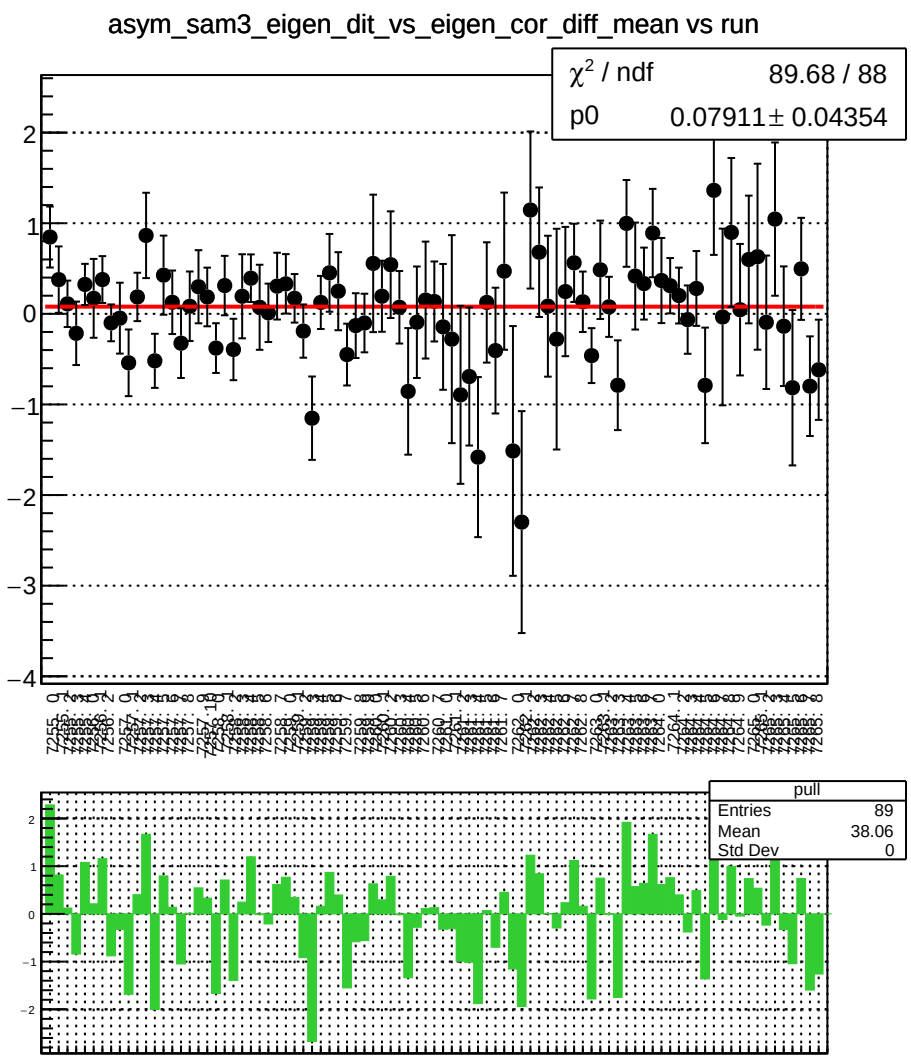

pull1D
Entries 89
Mean −0.01387
Std Dev 0.9891
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

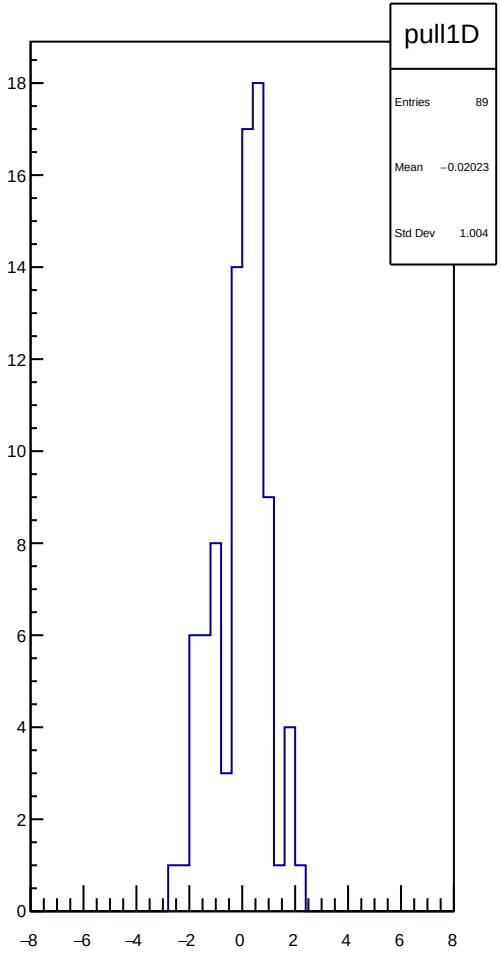

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1678 / 88
p0 0.00149 ± 1.145e–06
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014

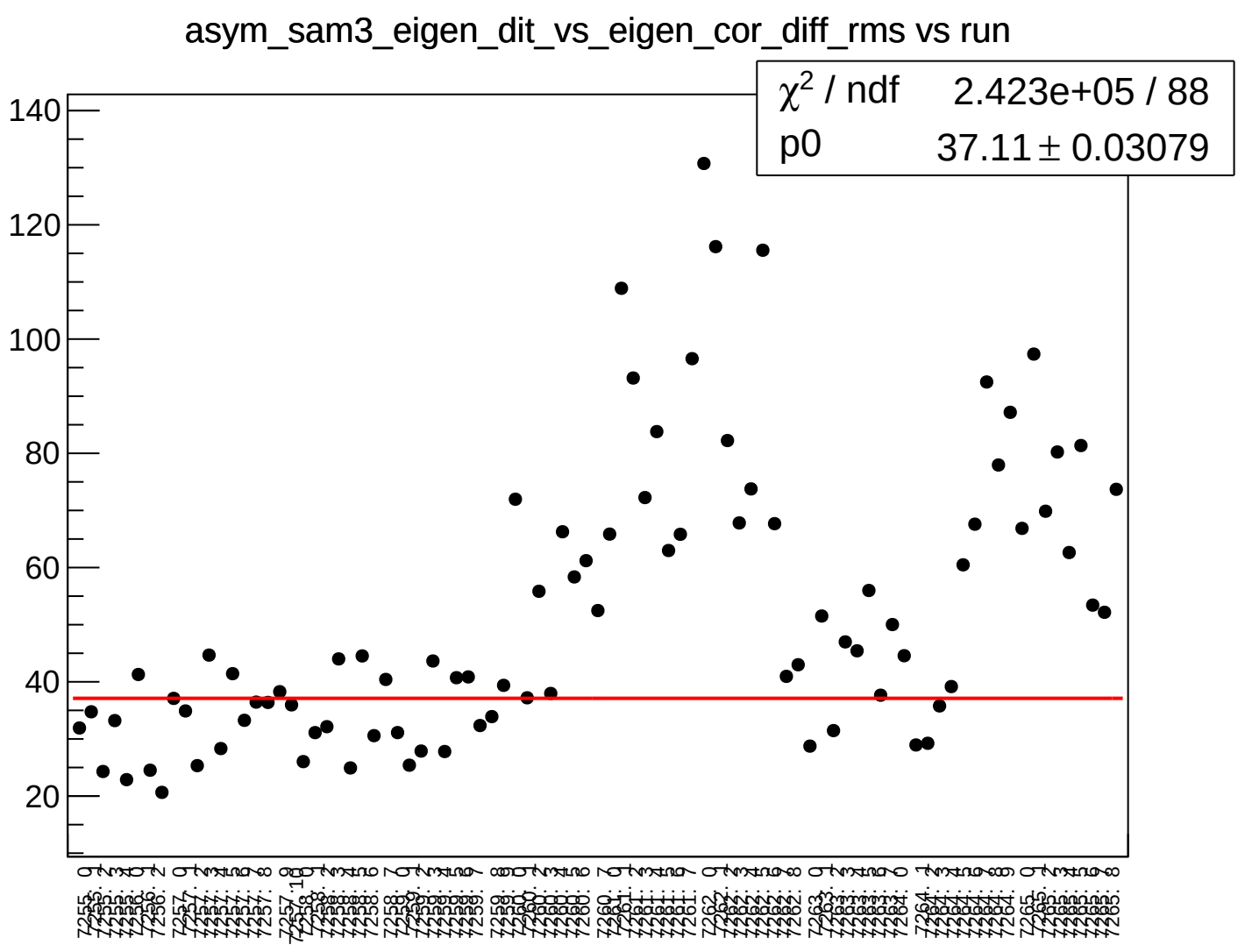

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.68 / 88
p0 0.07911 ± 0.04354
pull
Entries 89
Mean 38.06
Std Dev 0

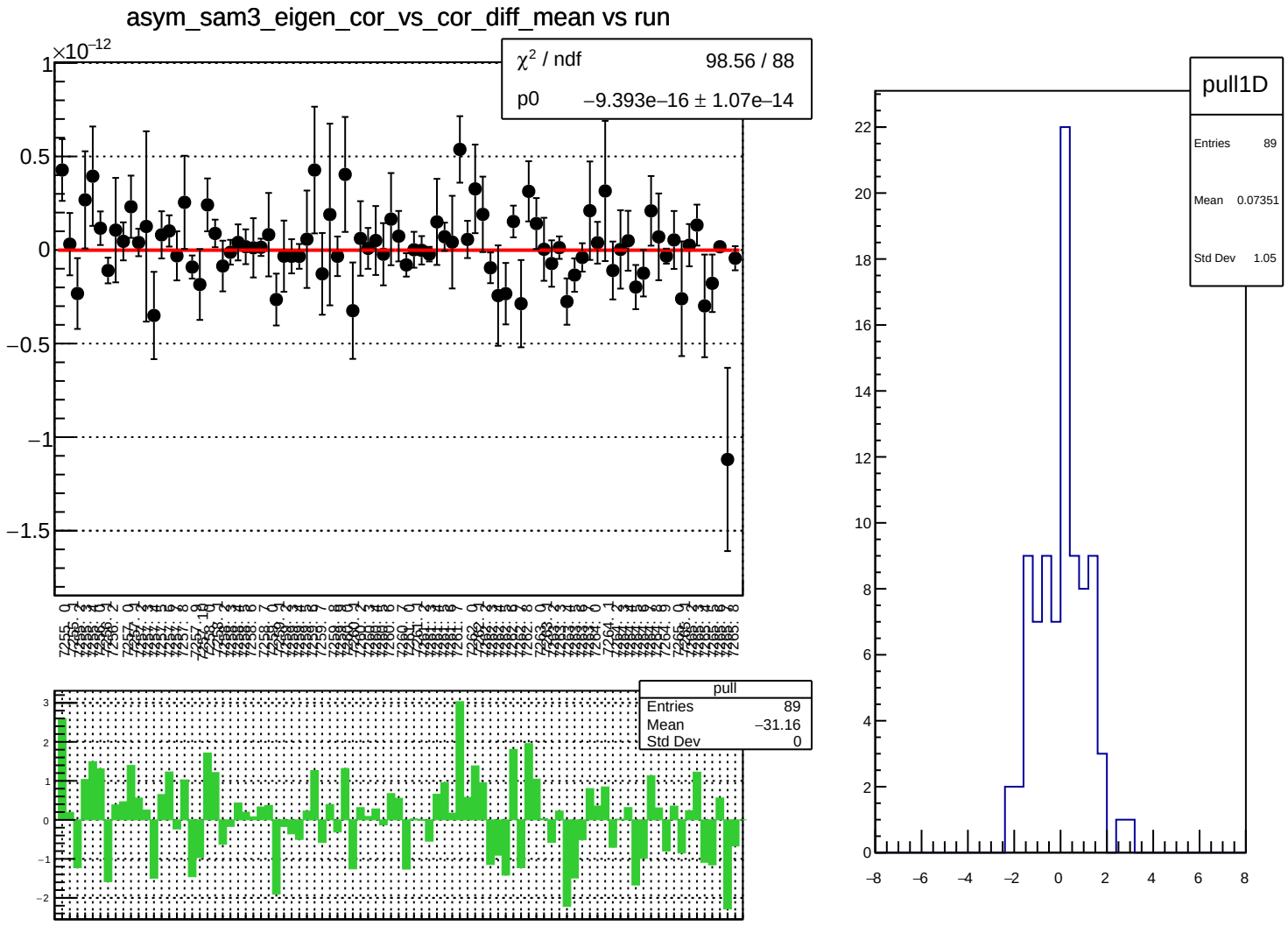

pull1D
Entries 89
Mean −0.02023
Std Dev 1.004

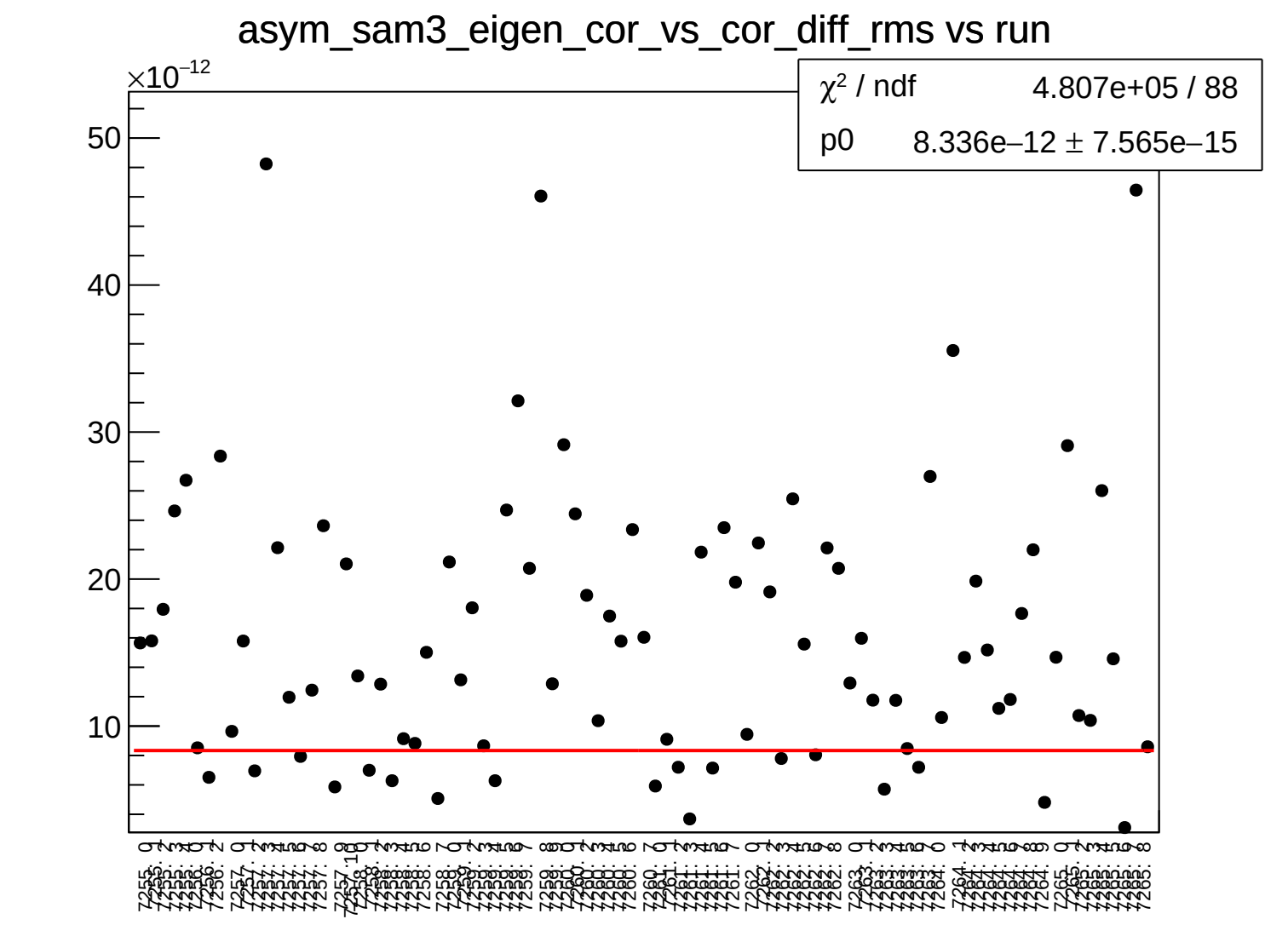

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.423e+05 / 88
p0 37.11 ± 0.03079
140
120
100
80
60
40
20

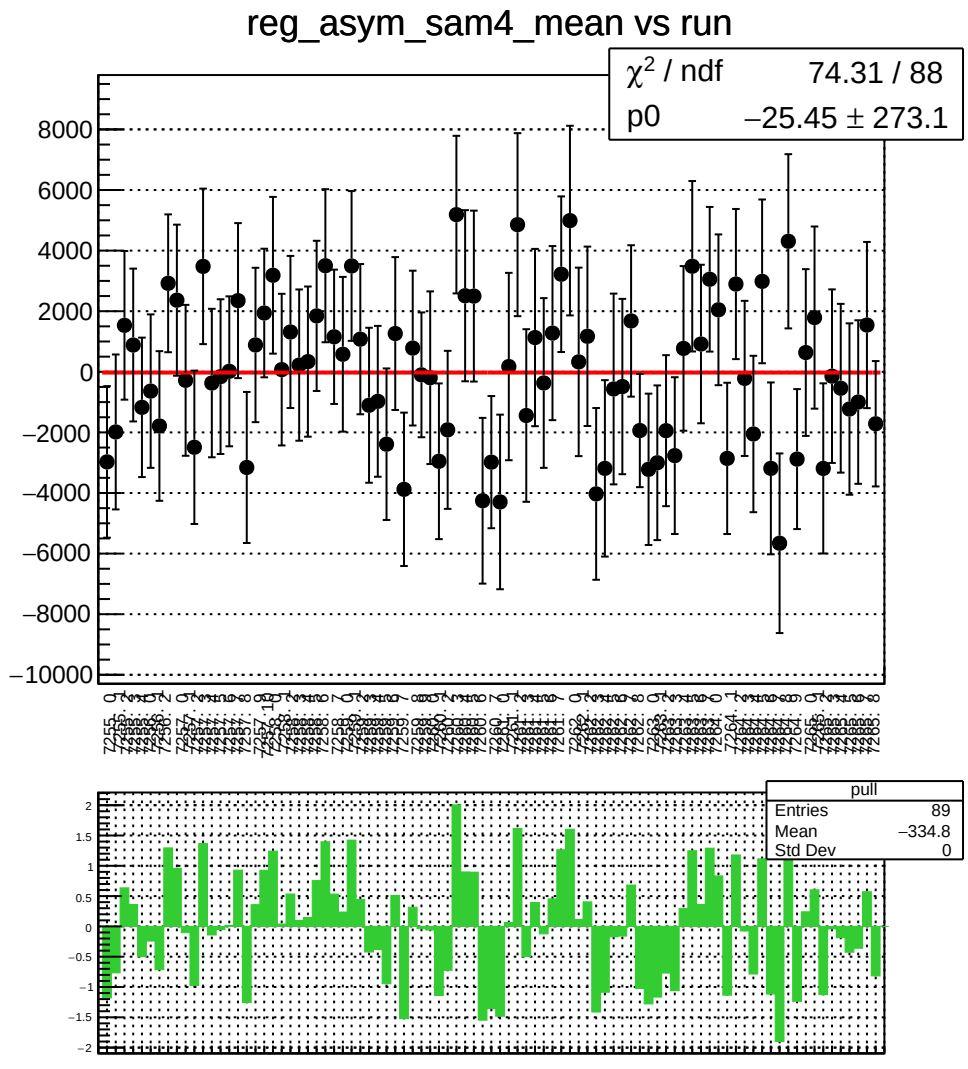

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.68 / 88
p0 0.07911 ± 0.04354
pull
Entries 89
Mean 38.06
Std Dev 0

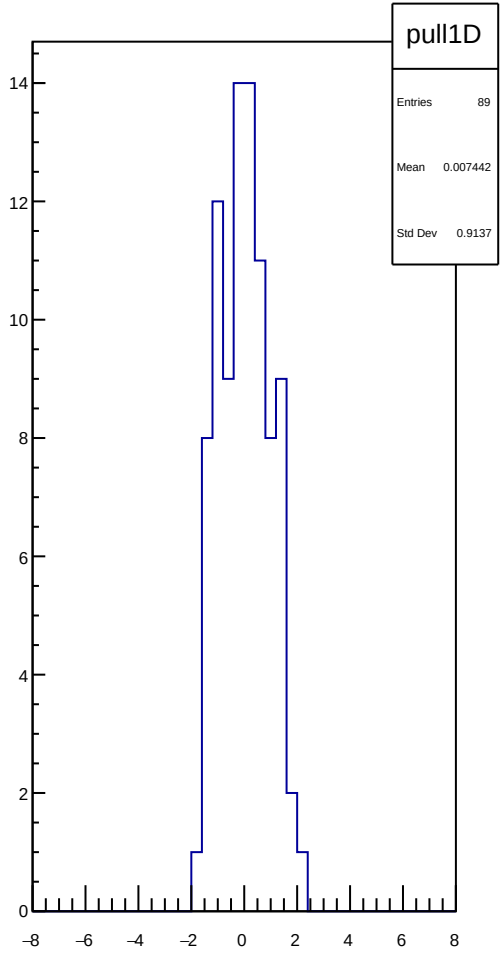

pull1D
Entries 89
Mean −0.02023
Std Dev 1.004

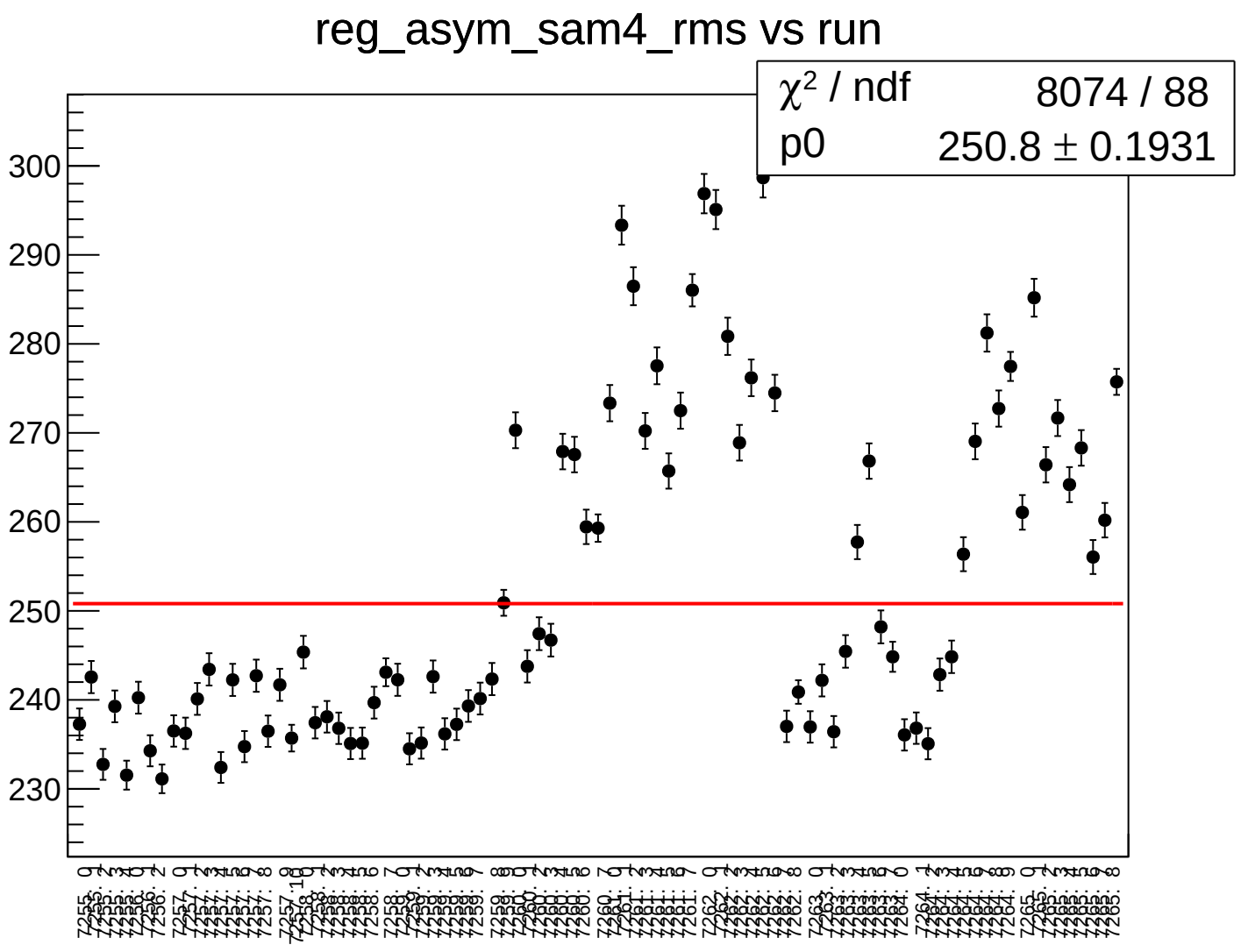

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.423e+05 / 88
p0 37.11 ± 0.03079
140
120
100
80
60
40
20

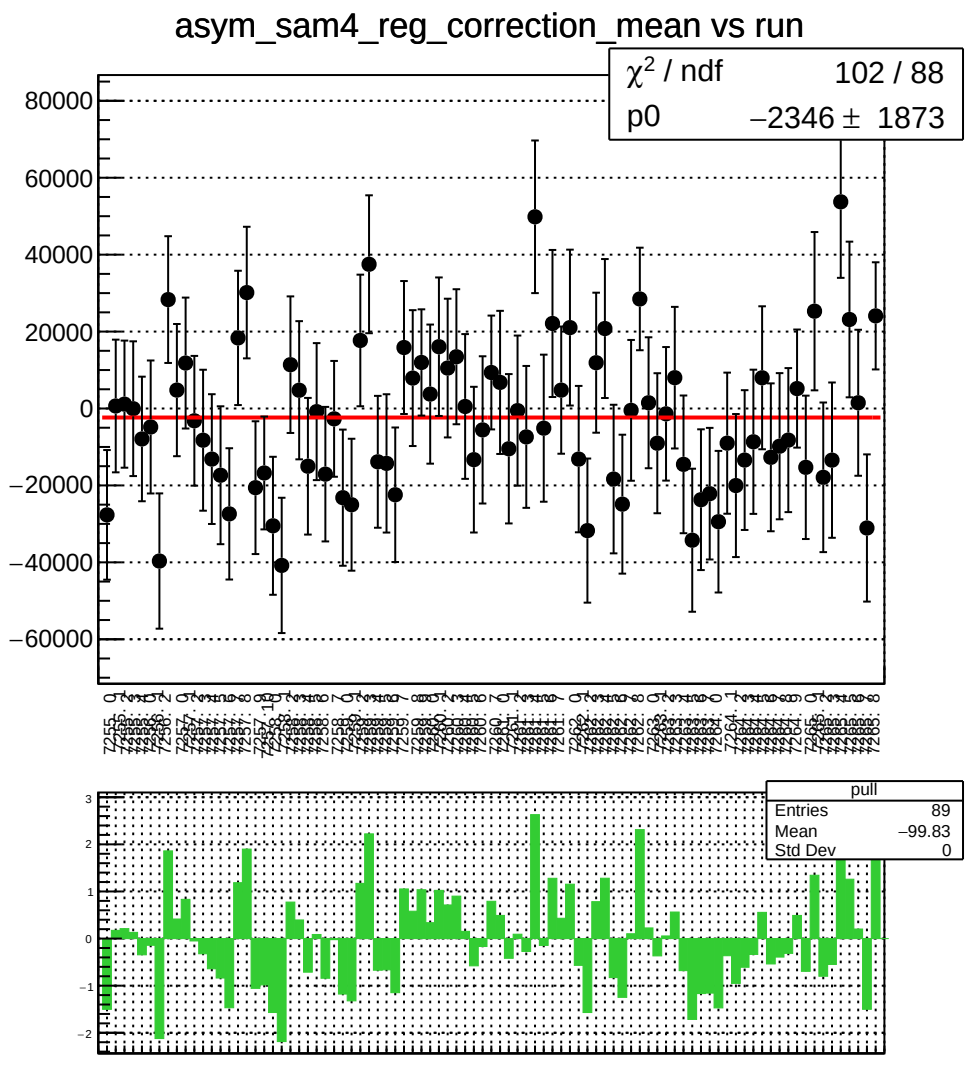

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.56 / 88
p0 −9.393e−16 ± 1.07e−14
pull
Entries 89
Mean −31.16
Std Dev 0
pull1D
Entries 89
Mean 0.07351
Std Dev 1.05

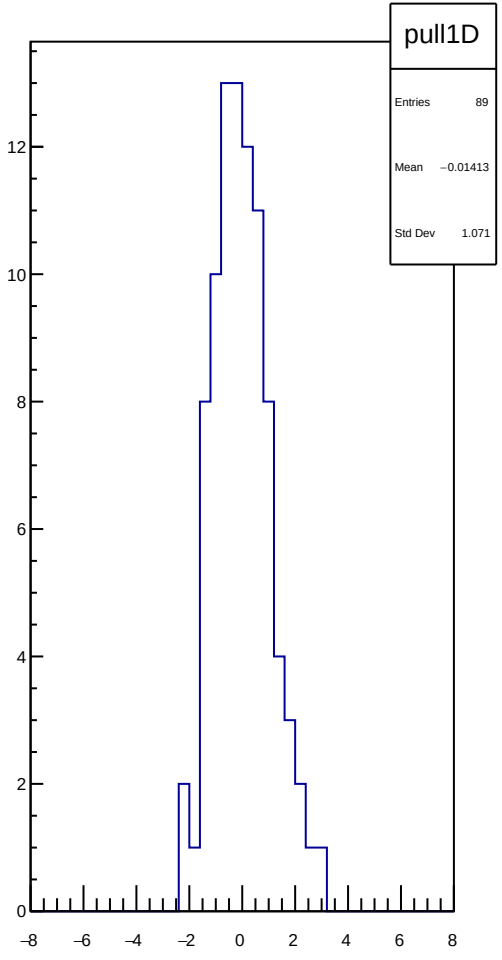

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.807e+05 / 88
p0 8.336e−12 ± 7.565e−15
50
40
30
20
10

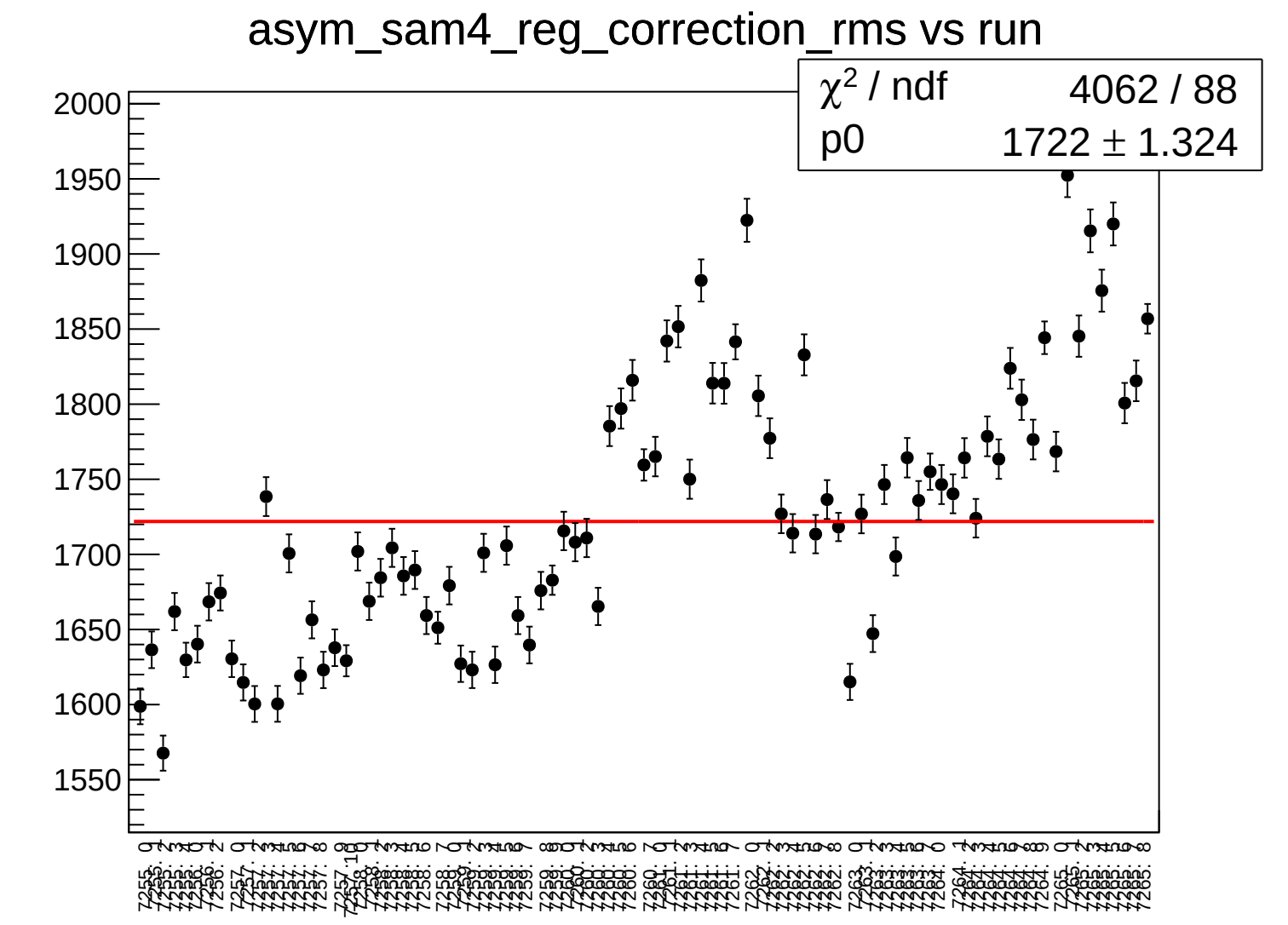

reg_asym_sam4_mean vs run
χ² / ndf 74.31 / 88
p0 −25.45 ± 273.1
pull
Entries 89
Mean −334.8
Std Dev 0

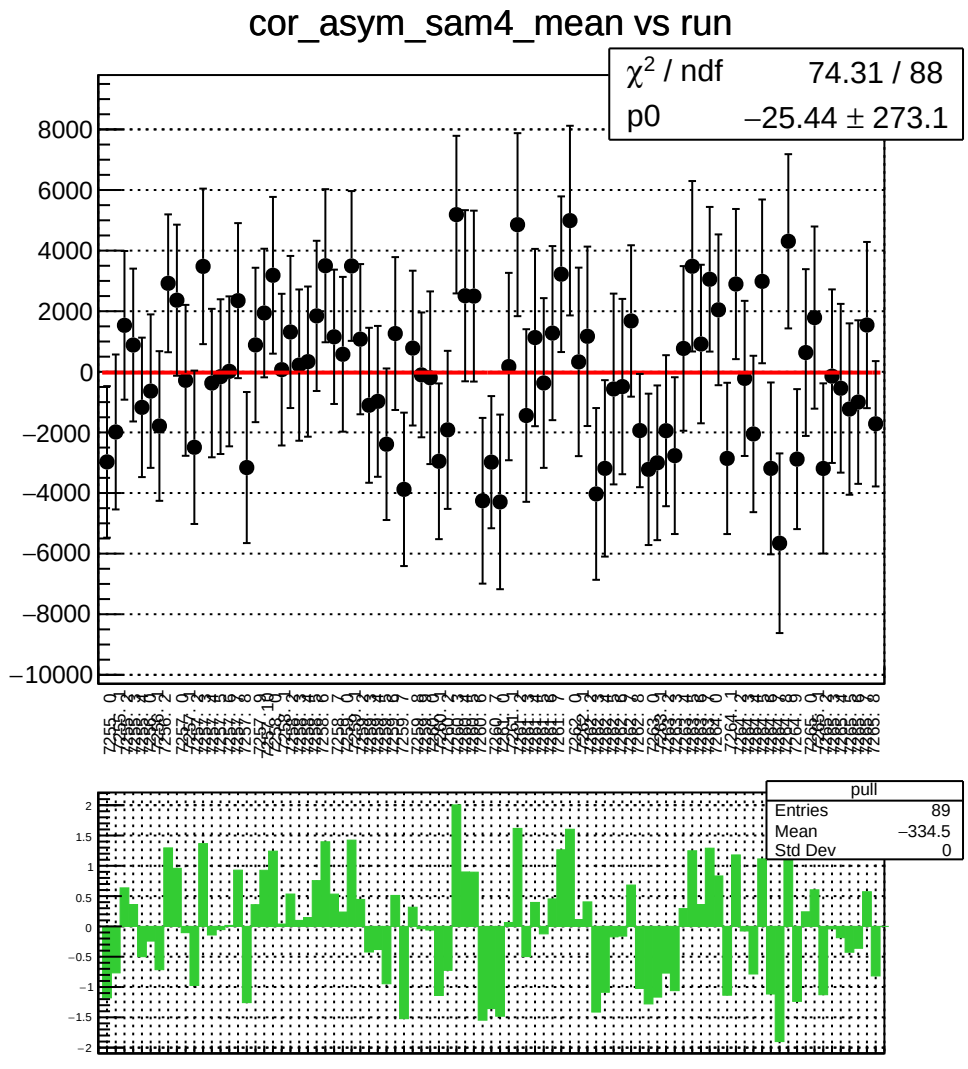

pull1D
Entries 89
Mean 0.007442
Std Dev 0.9137

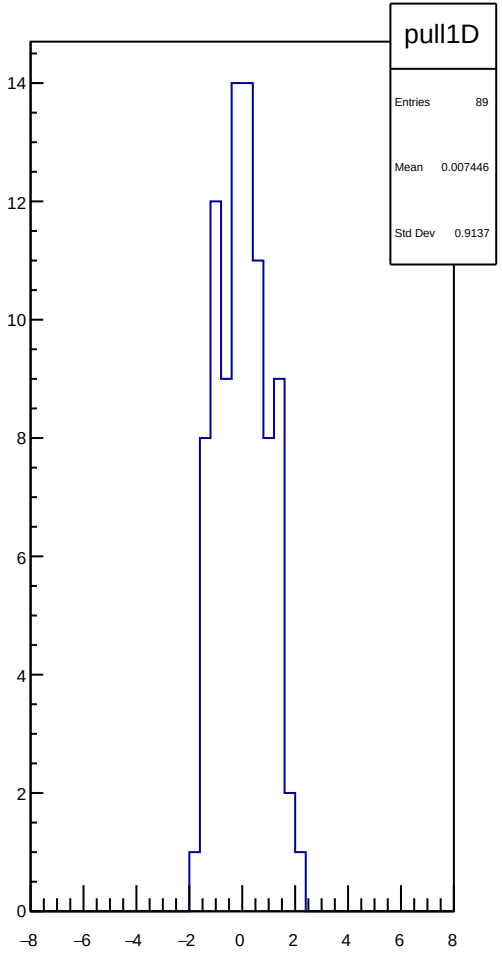

reg_asym_sam4_rms vs run
χ² / ndf 8074 / 88
p0 250.8 ± 0.1931
300
290
280
270
260
250
240
230

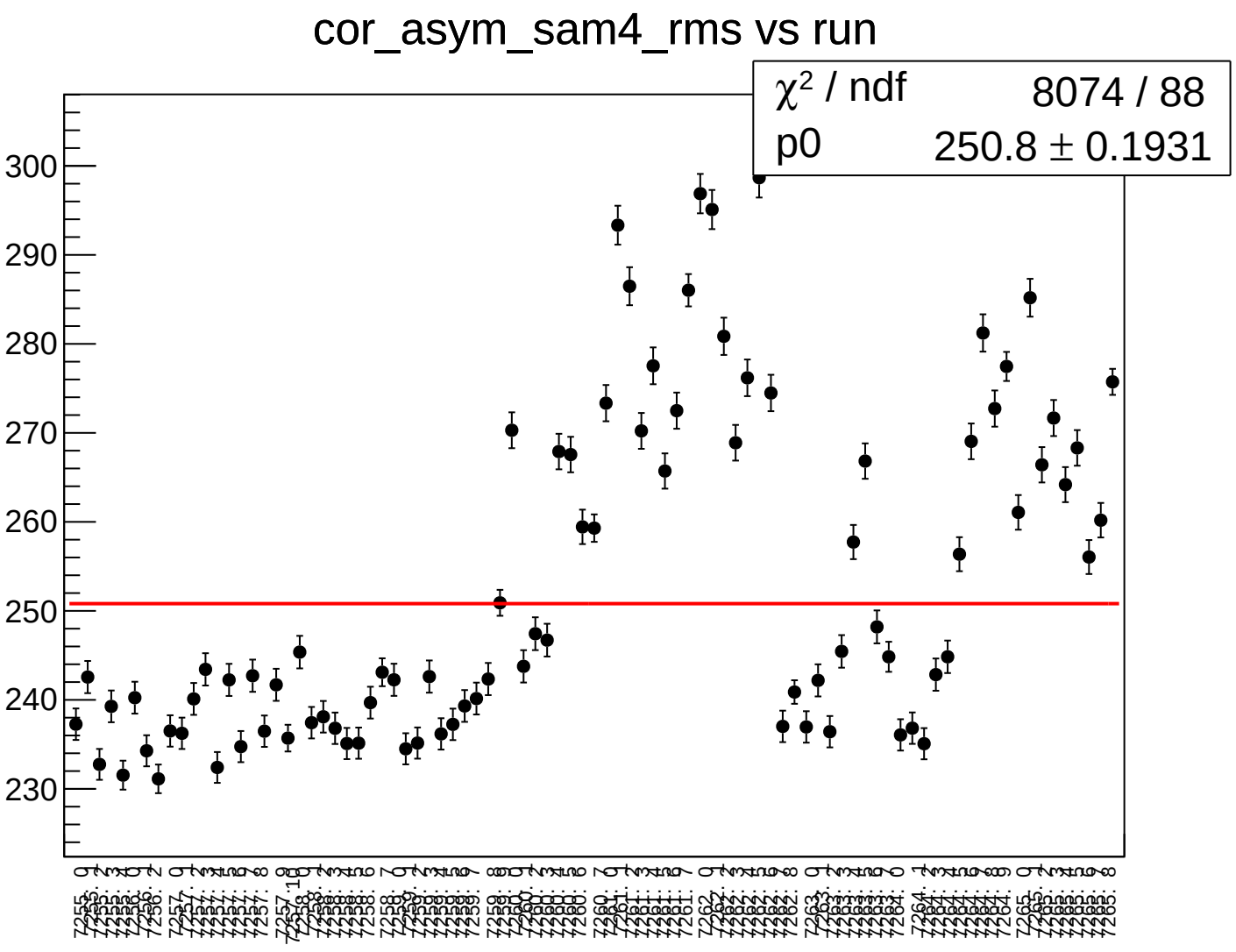

asym_sam4_reg_correction_mean vs run
χ² / ndf 102 / 88
p0 −2346 ± 1873
pull
Entries 89
Mean −99.83
Std Dev 0

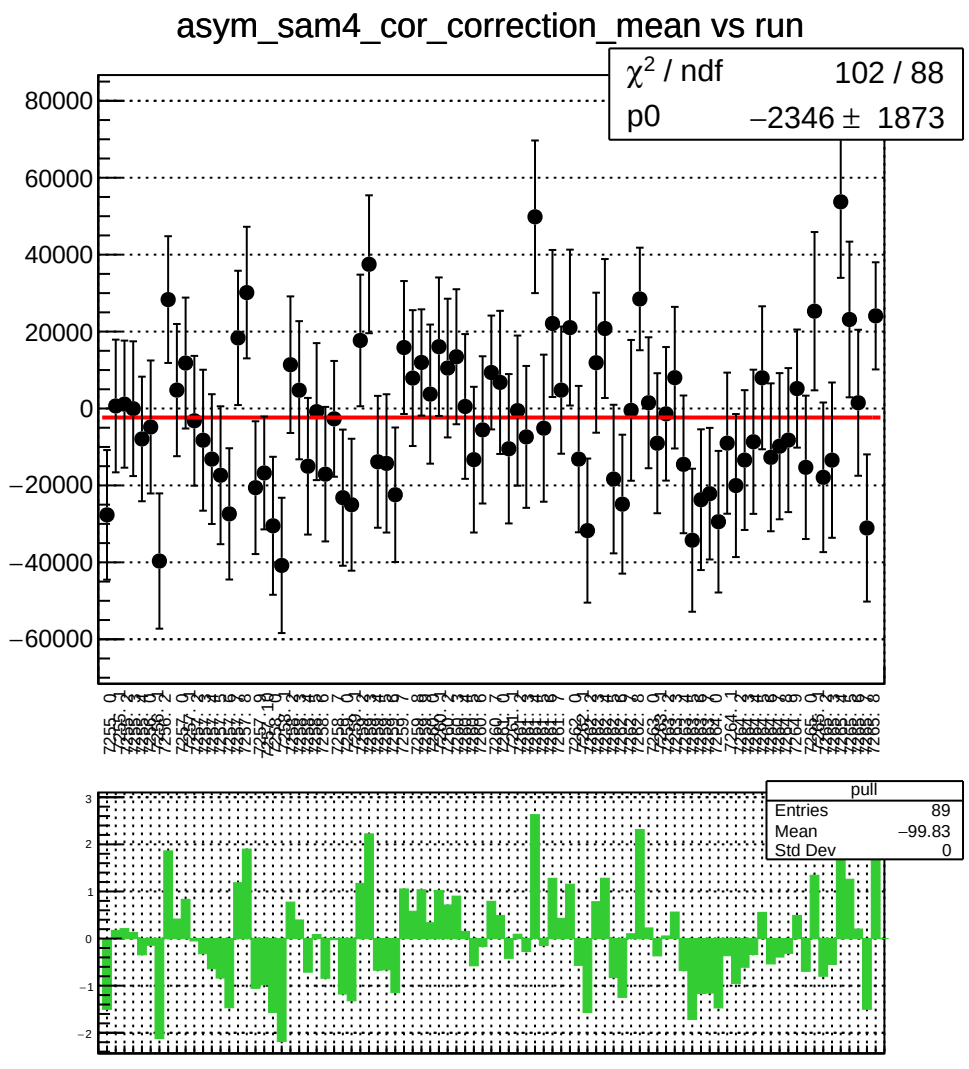

pull1D
Entries 89
Mean −0.01413
Std Dev 1.071

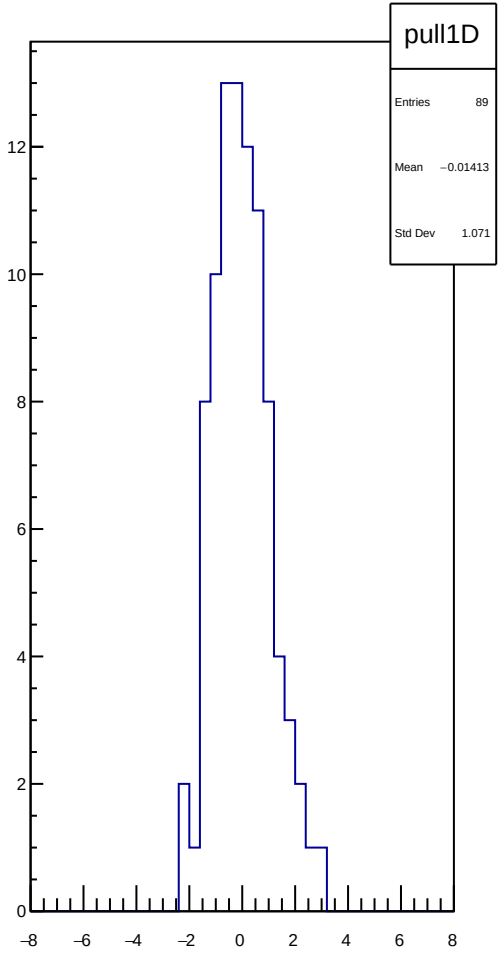

asym_sam4_reg_correction_rms vs run
χ² / ndf 4062 / 88
p0 1722 ± 1.324
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550

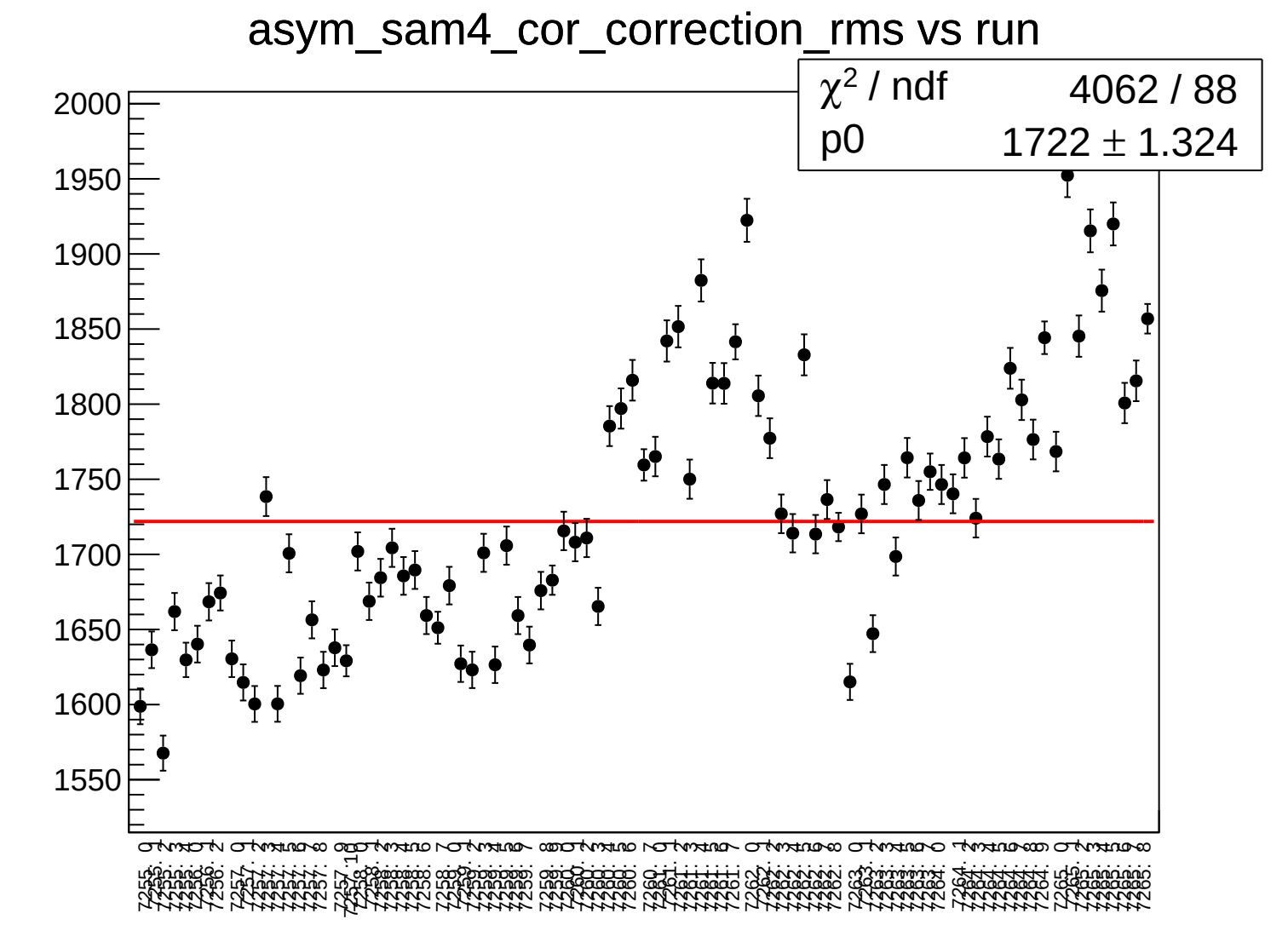

cor_asym_sam4_mean vs run
χ² / ndf 74.31 / 88
p0 −25.44 ± 273.1
pull
Entries 89
Mean −334.5
Std Dev 0

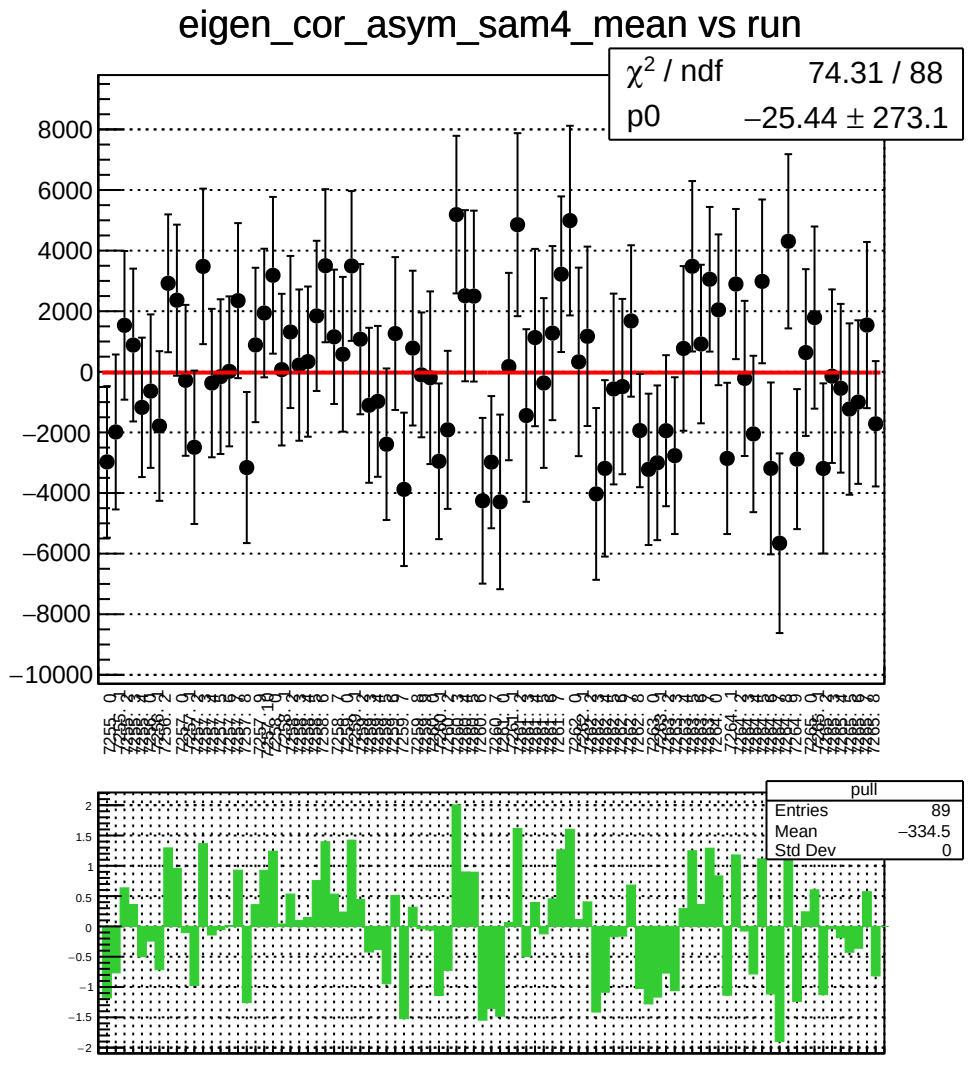

pull1D
Entries 89
Mean 0.007446
Std Dev 0.9137

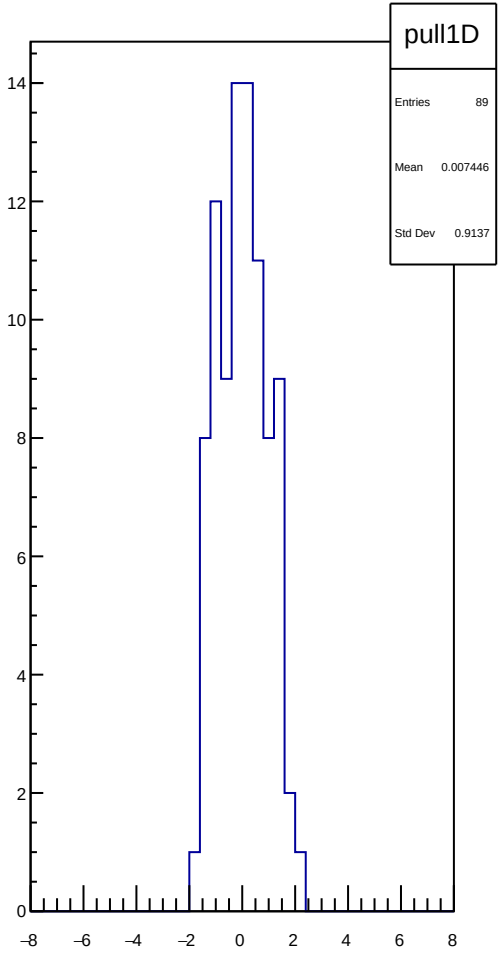

cor_asym_sam4_rms vs run
χ² / ndf 8074 / 88
p0 250.8 ± 0.1931
300
290
280
270
260
250
240
230

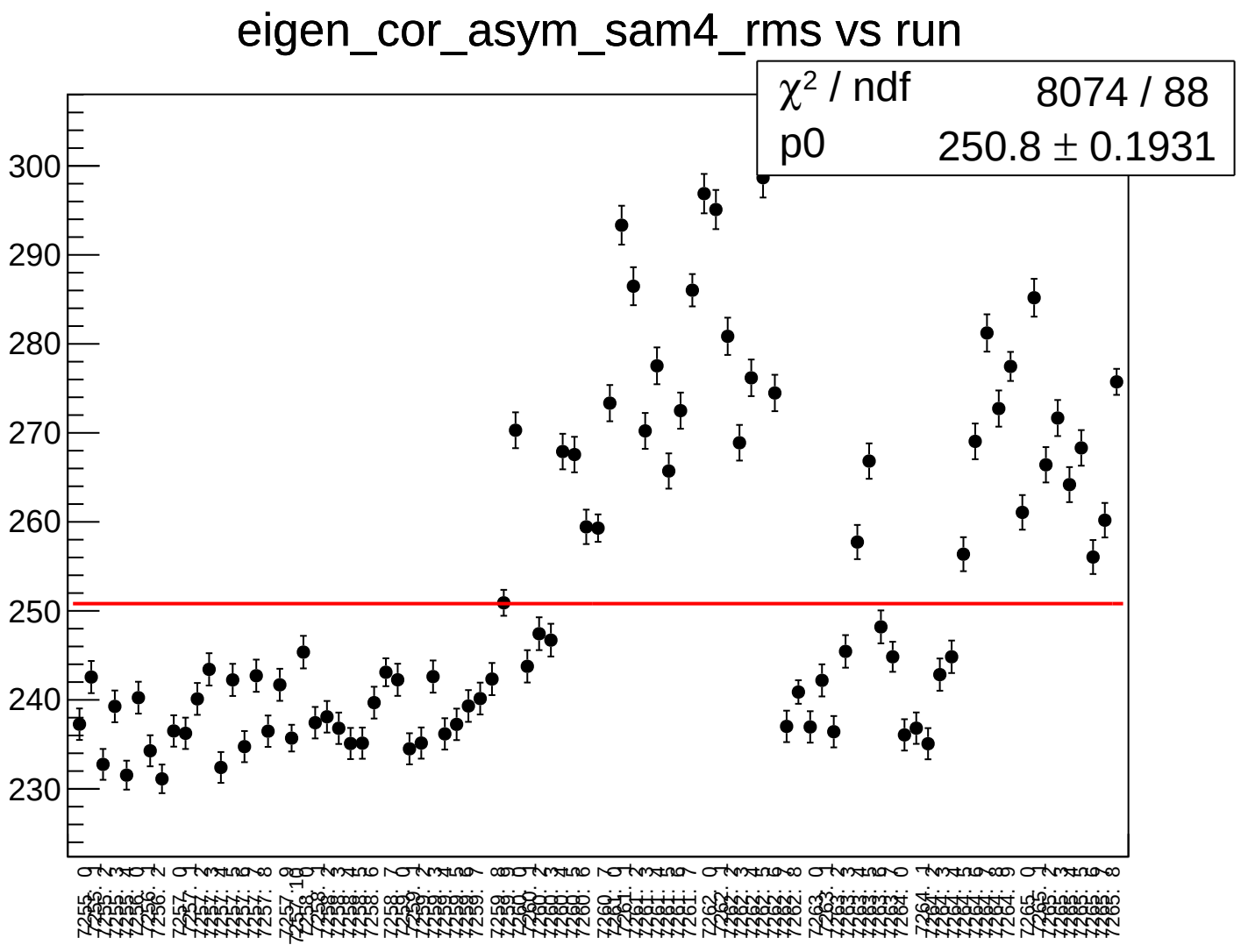

asym_sam4_cor_correction_mean vs run
χ² / ndf 102 / 88
p0 −2346 ± 1873
pull
Entries 89
Mean −99.83
Std Dev 0

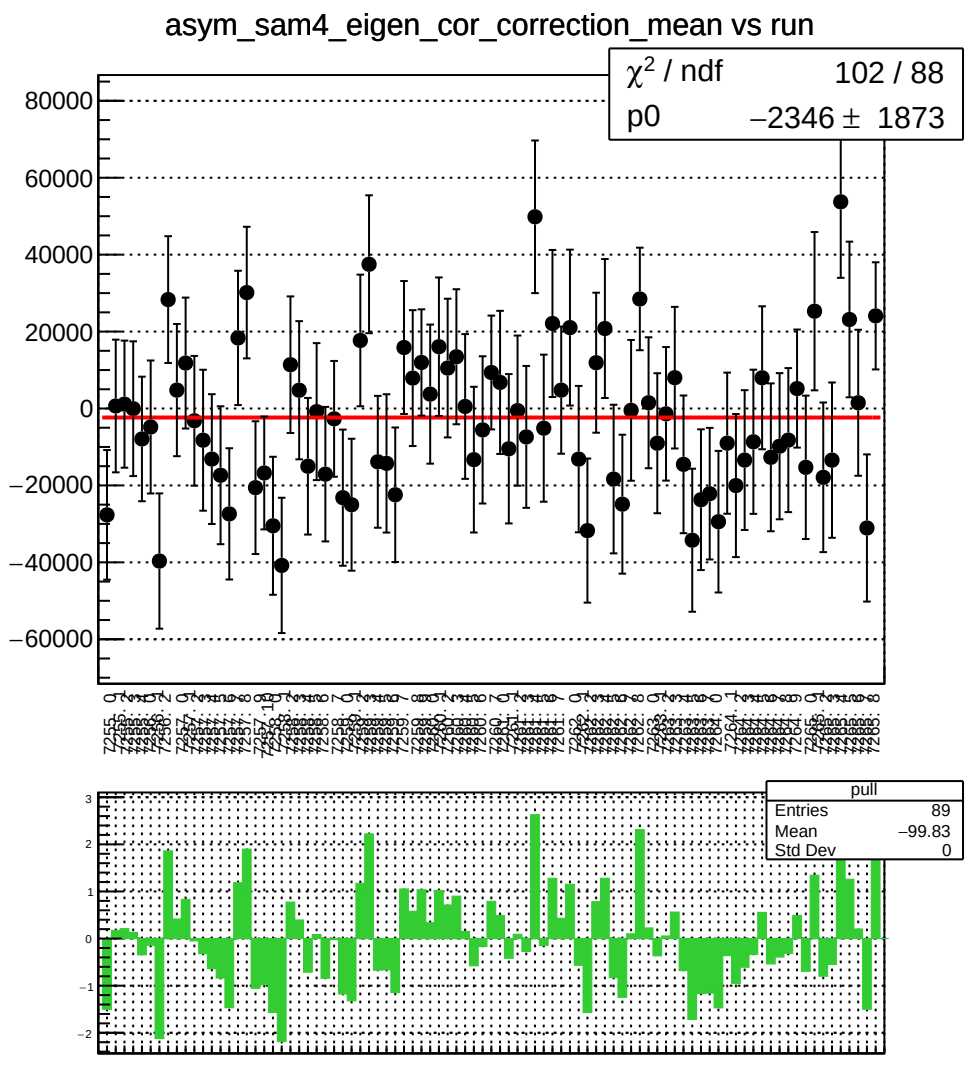

pull1D
Entries 89
Mean −0.01413
Std Dev 1.071

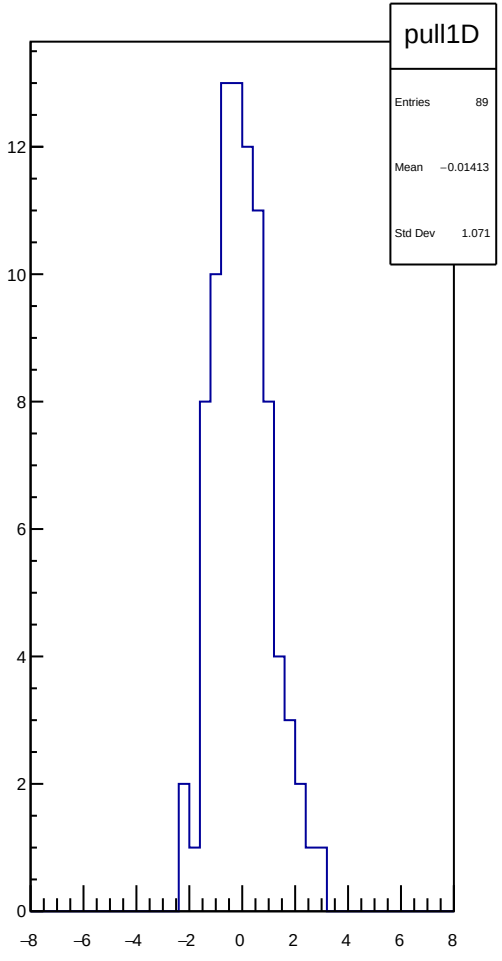

asym_sam4_cor_correction_rms vs run
χ² / ndf 4062 / 88
p0 1722 ± 1.324
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550

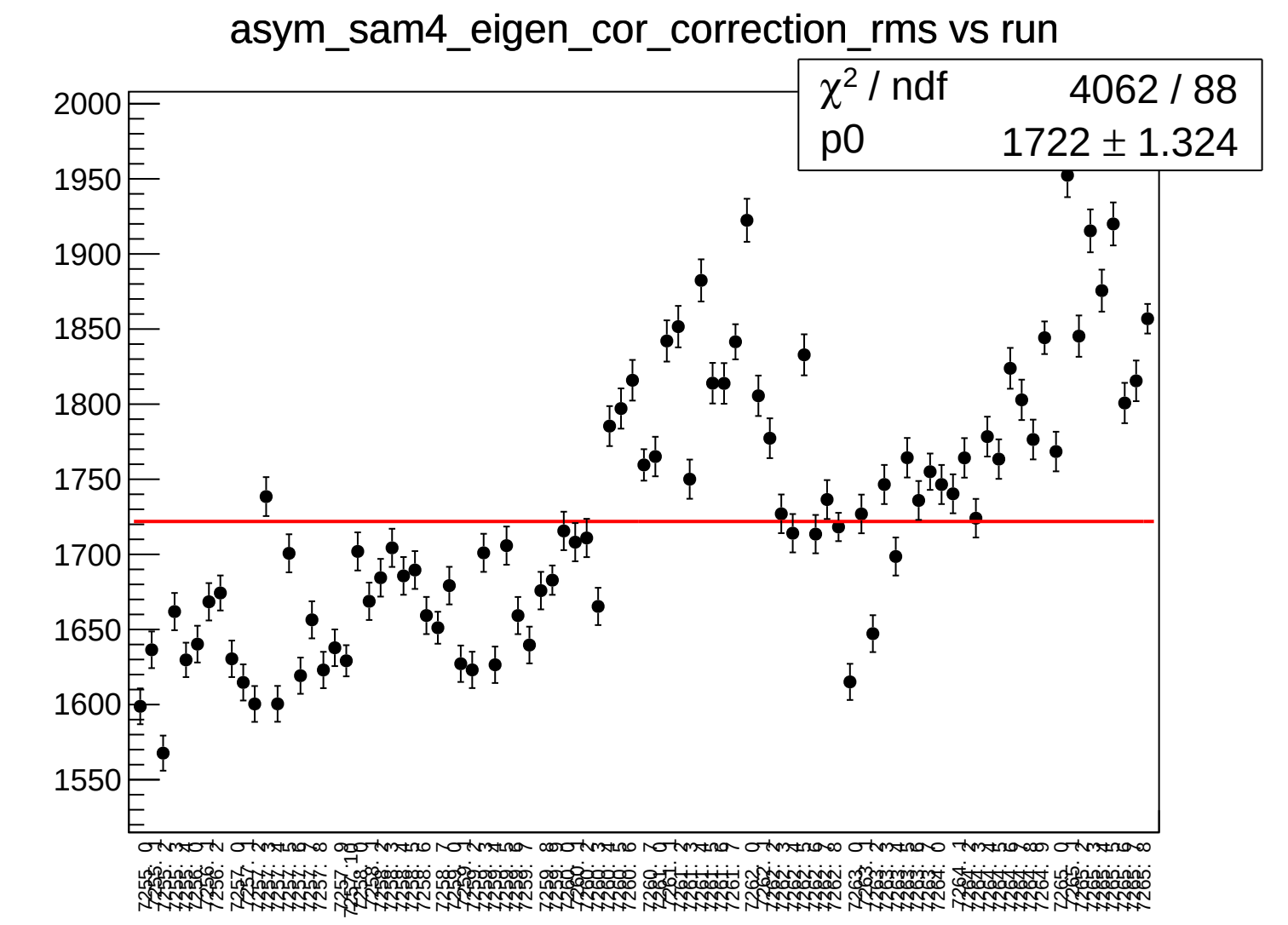

eigen_cor_asym_sam4_mean vs run
χ² / ndf 74.31 / 88
p0 −25.44 ± 273.1
pull
Entries 89
Mean −334.5
Std Dev 0

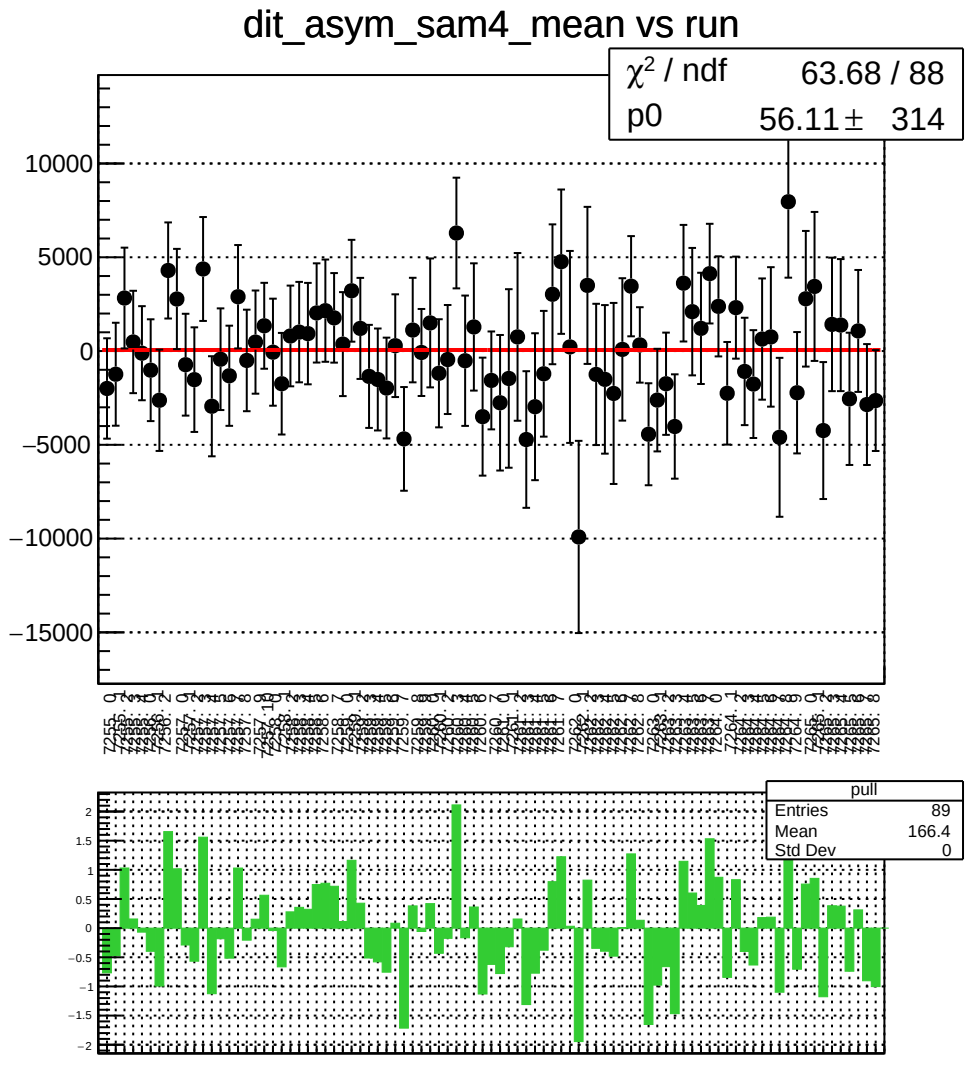

pull1D
Entries 89
Mean 0.007446
Std Dev 0.9137

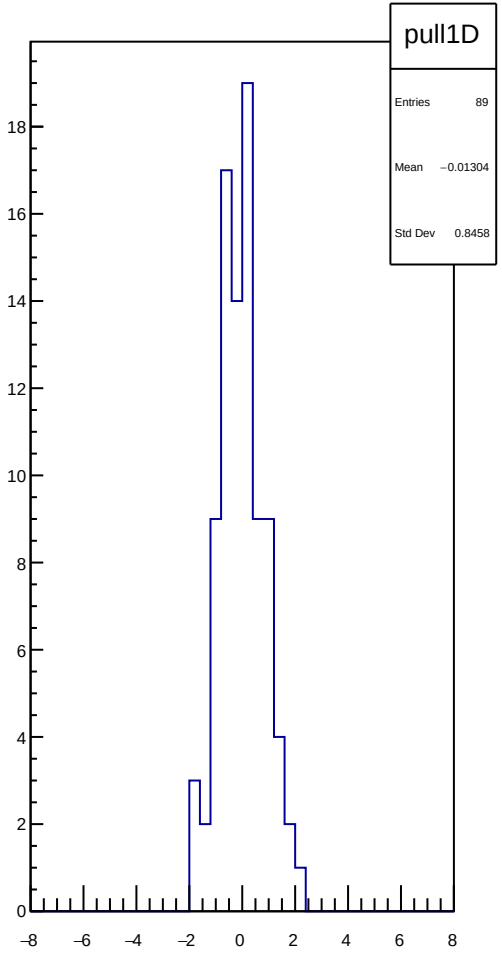

eigen_cor_asym_sam4_rms vs run
χ² / ndf 8074 / 88
p0 250.8 ± 0.1931
300
290
280
270
260
250
240
230

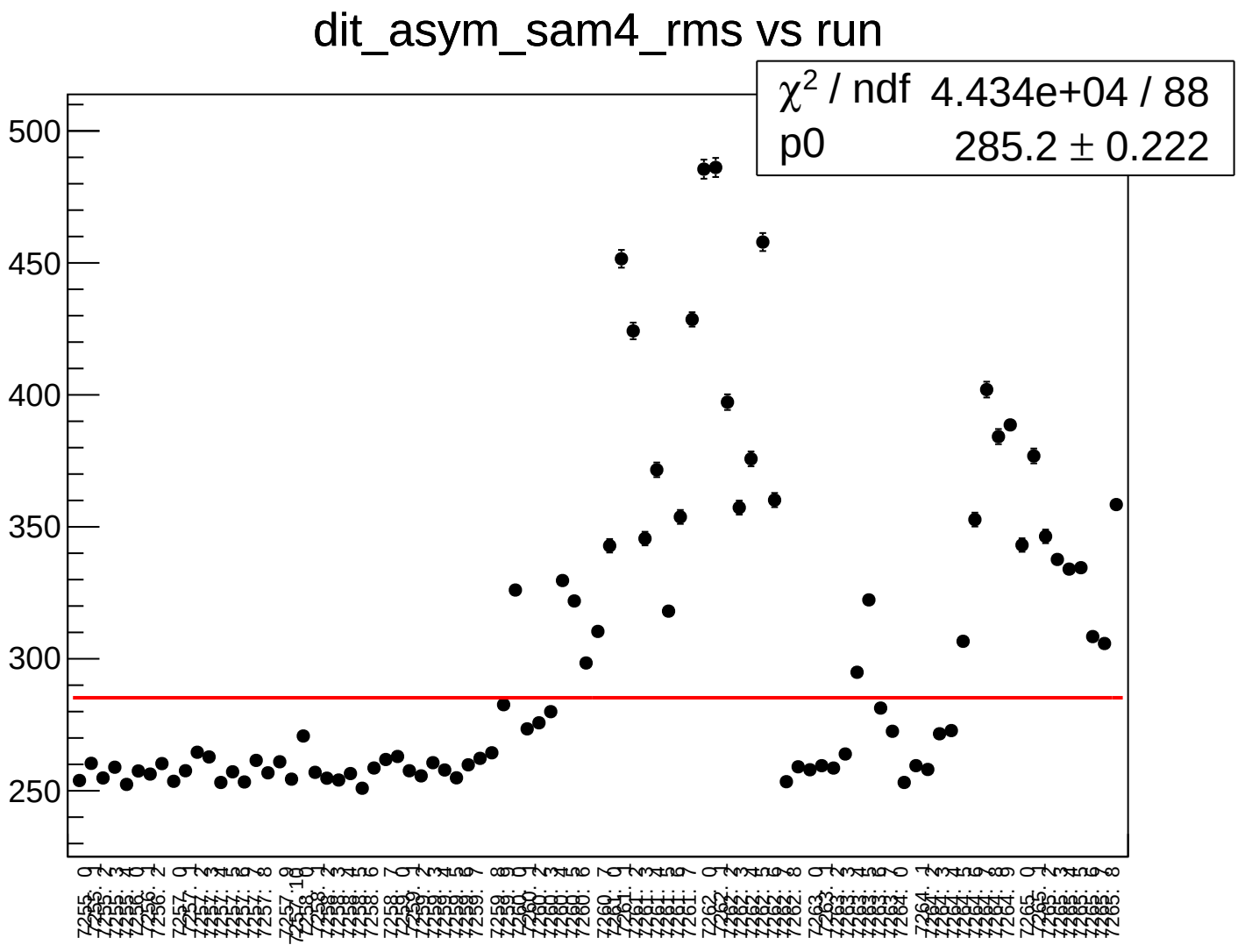

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 102 / 88
p0 −2346 ± 1873
pull
Entries 89
Mean −99.83
Std Dev 0

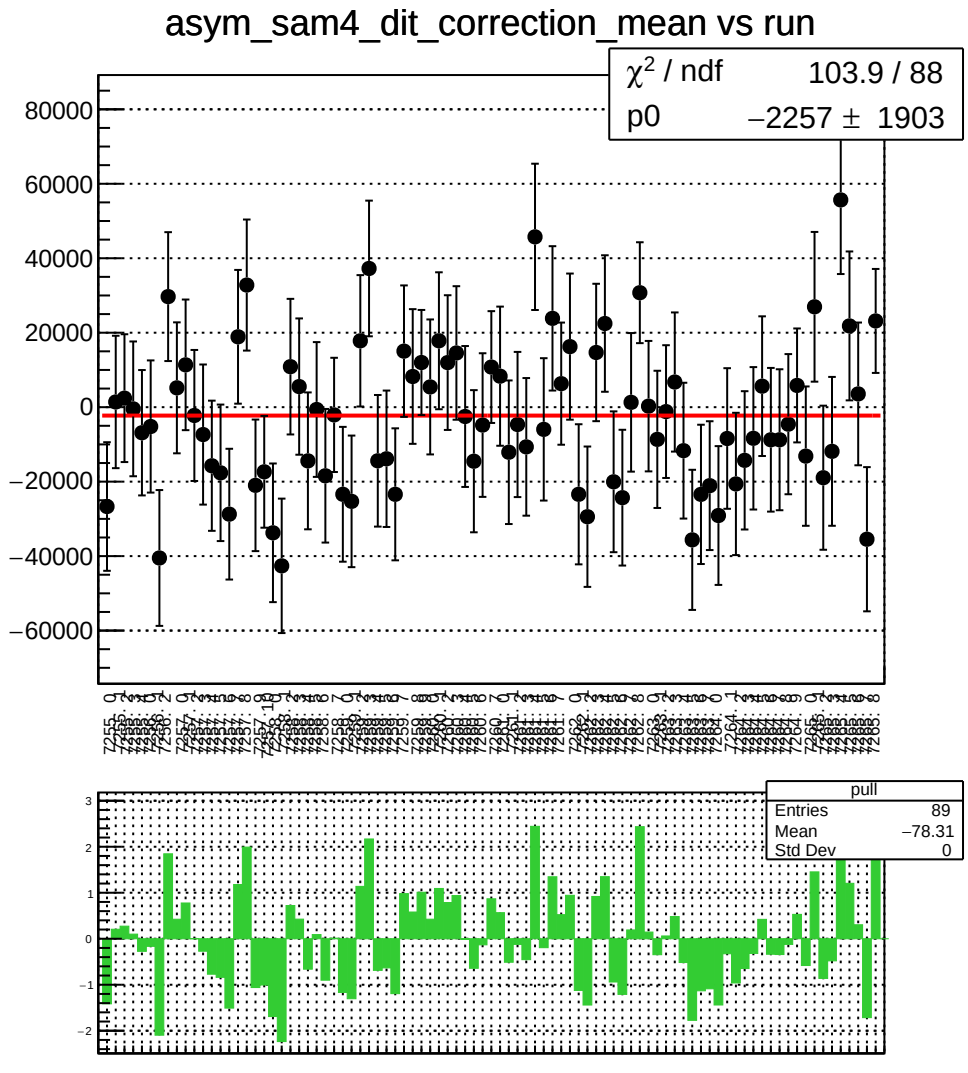

pull1D
Entries 89
Mean −0.01413
Std Dev 1.071

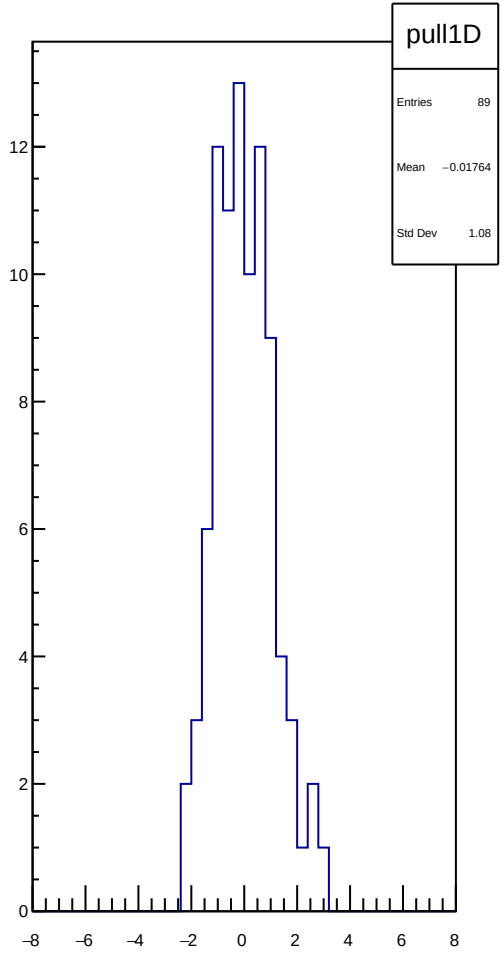

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 4062 / 88
p0 1722 ± 1.324
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550

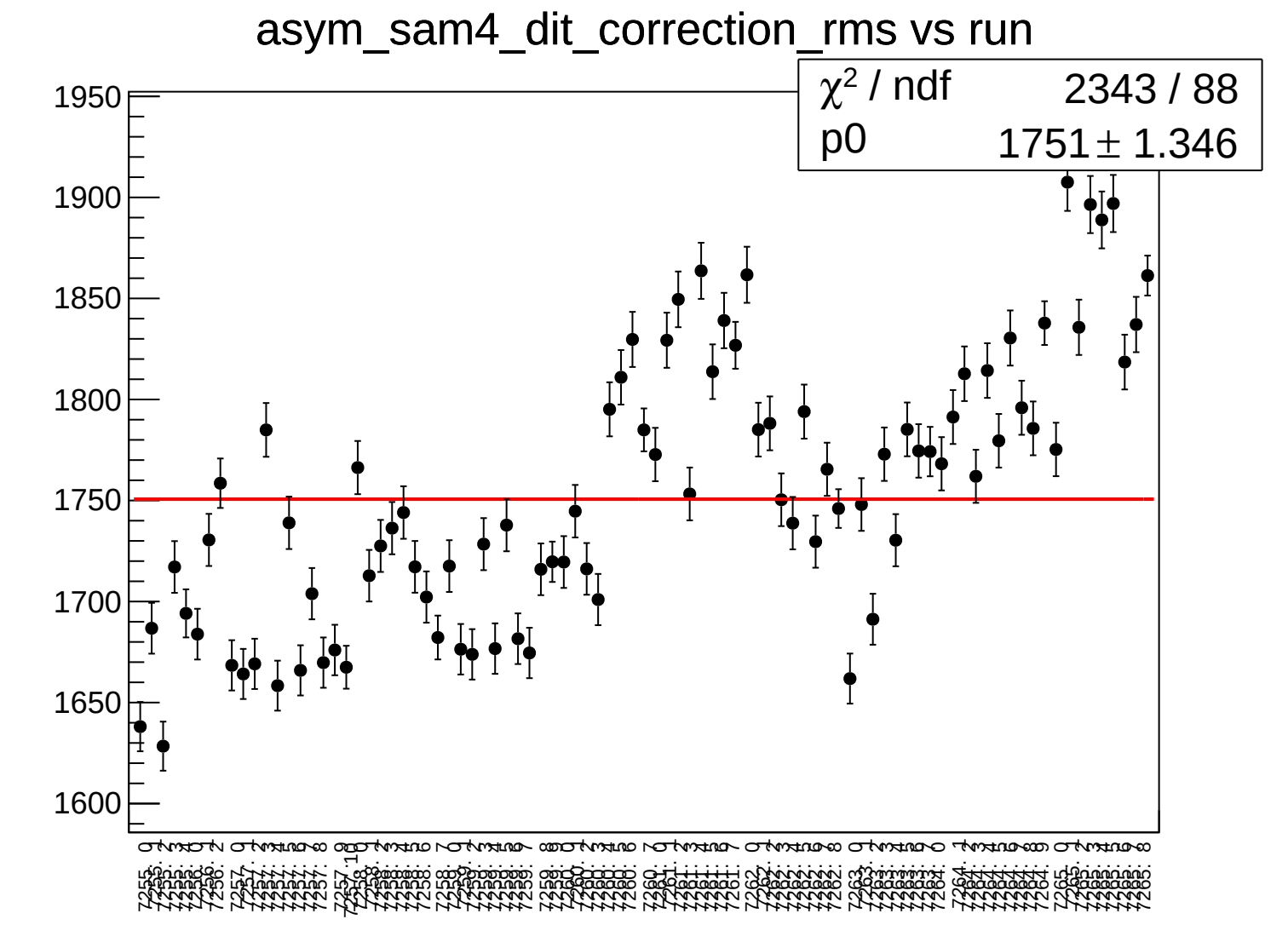

dit_asym_sam4_mean vs run
χ² / ndf 63.68 / 88
p0 56.11 ± 314
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 166.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

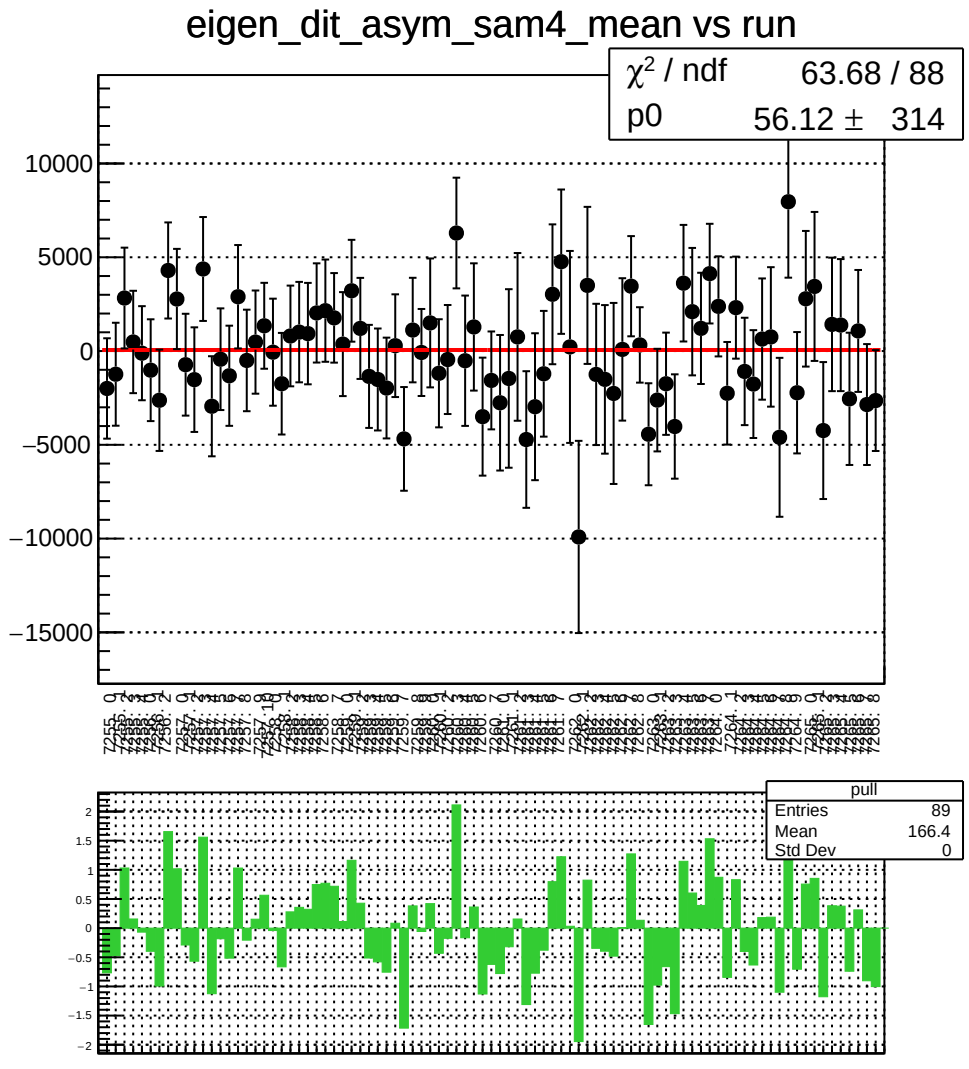

pull1D
Entries 89
Mean −0.01304
Std Dev 0.8458
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

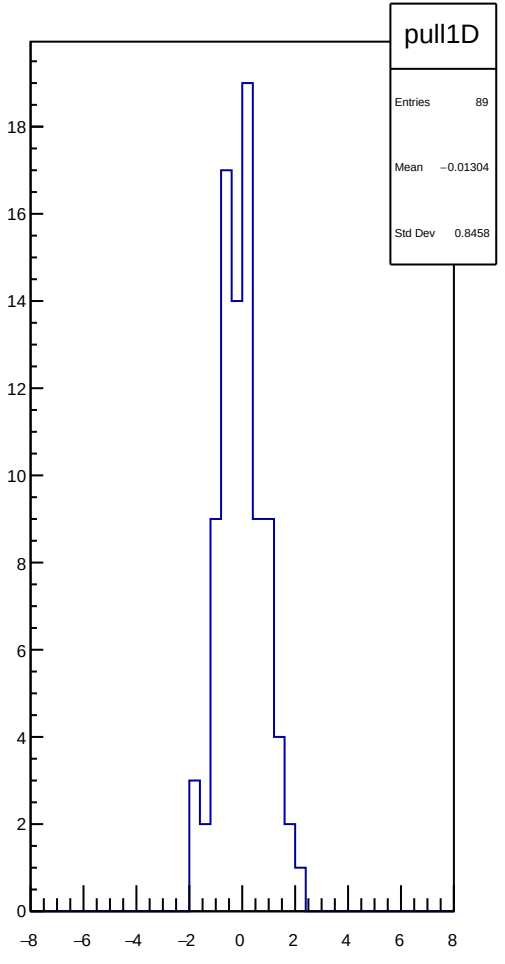

dit_asym_sam4_rms vs run
χ^2 / ndf 4.434e+04 / 88
p0 285.2 ± 0.222
500
450
400
350
300
250

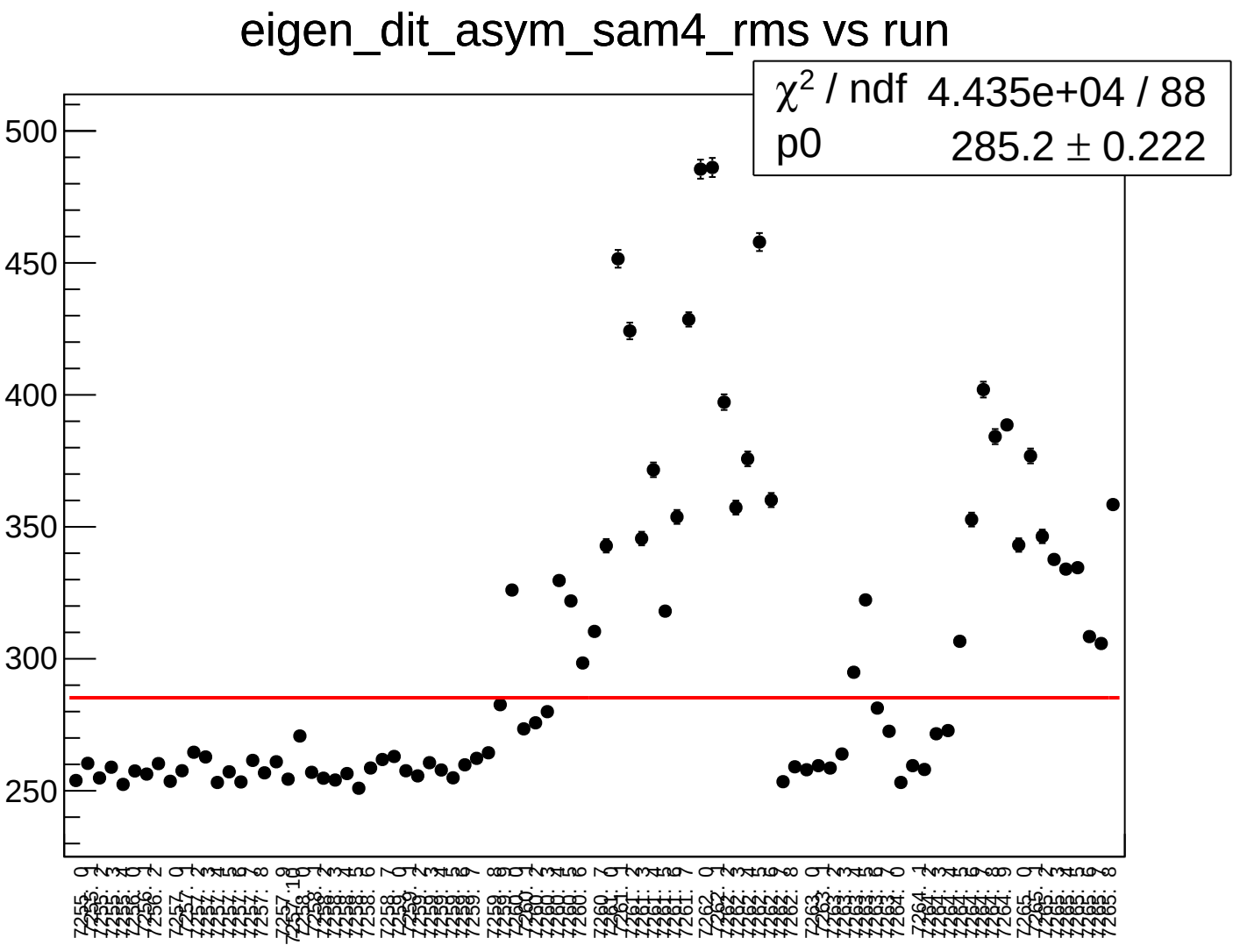

asym_sam4_dit_correction_mean vs run
χ² / ndf 103.9 / 88
p0 −2257 ± 1903
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −78.31
Std Dev 0
3
2
1
0
−1
−2

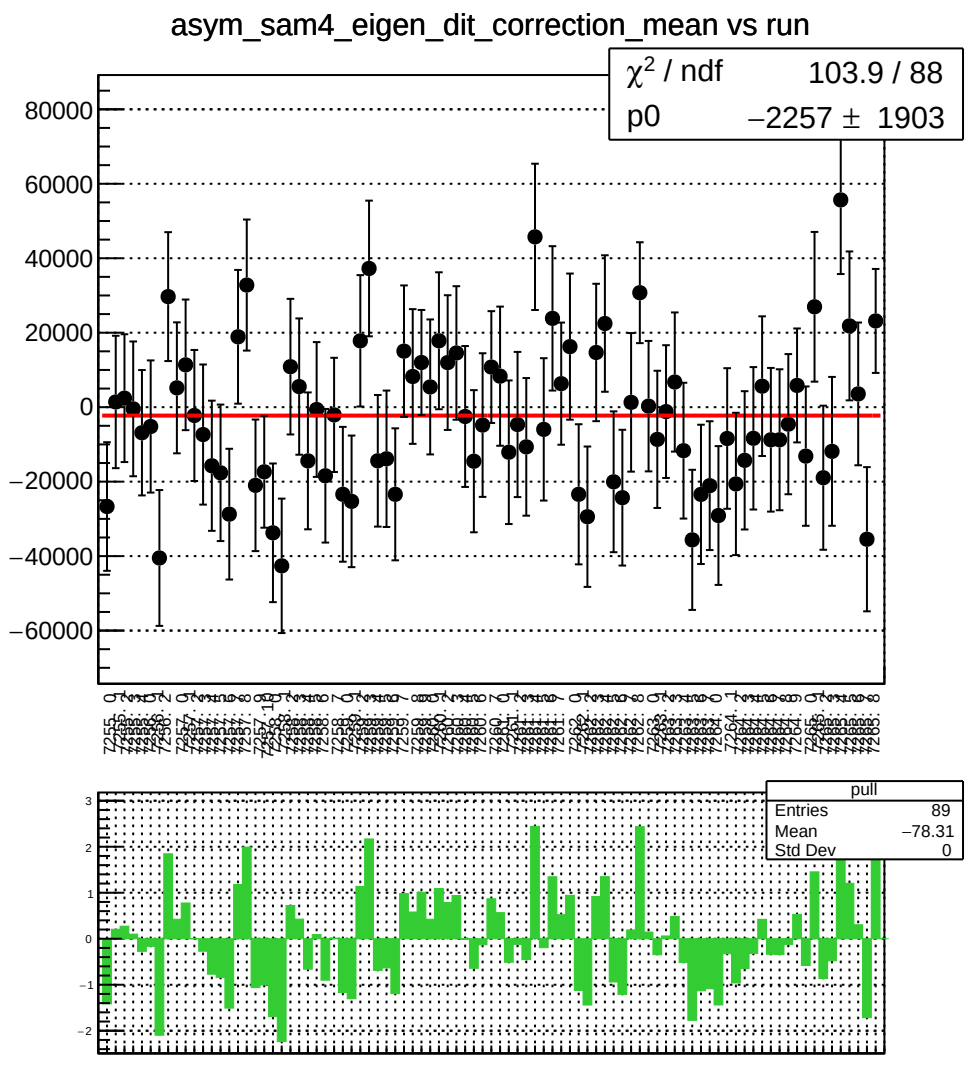

pull1D
Entries 89
Mean −0.01764
Std Dev 1.08
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

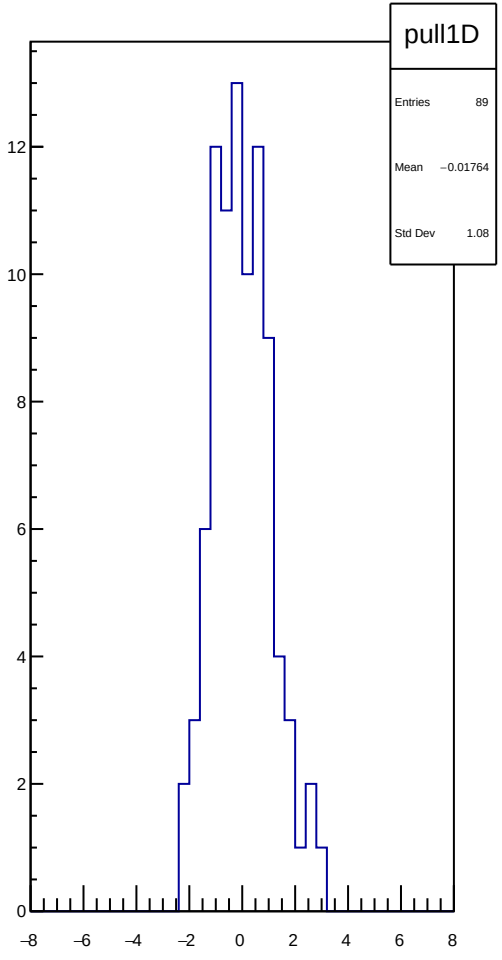

asym_sam4_dit_correction_rms vs run
χ^2 / ndf 2343 / 88
p0 1751 ± 1.346
1950
1900
1850
1800
1750
1700
1650
1600

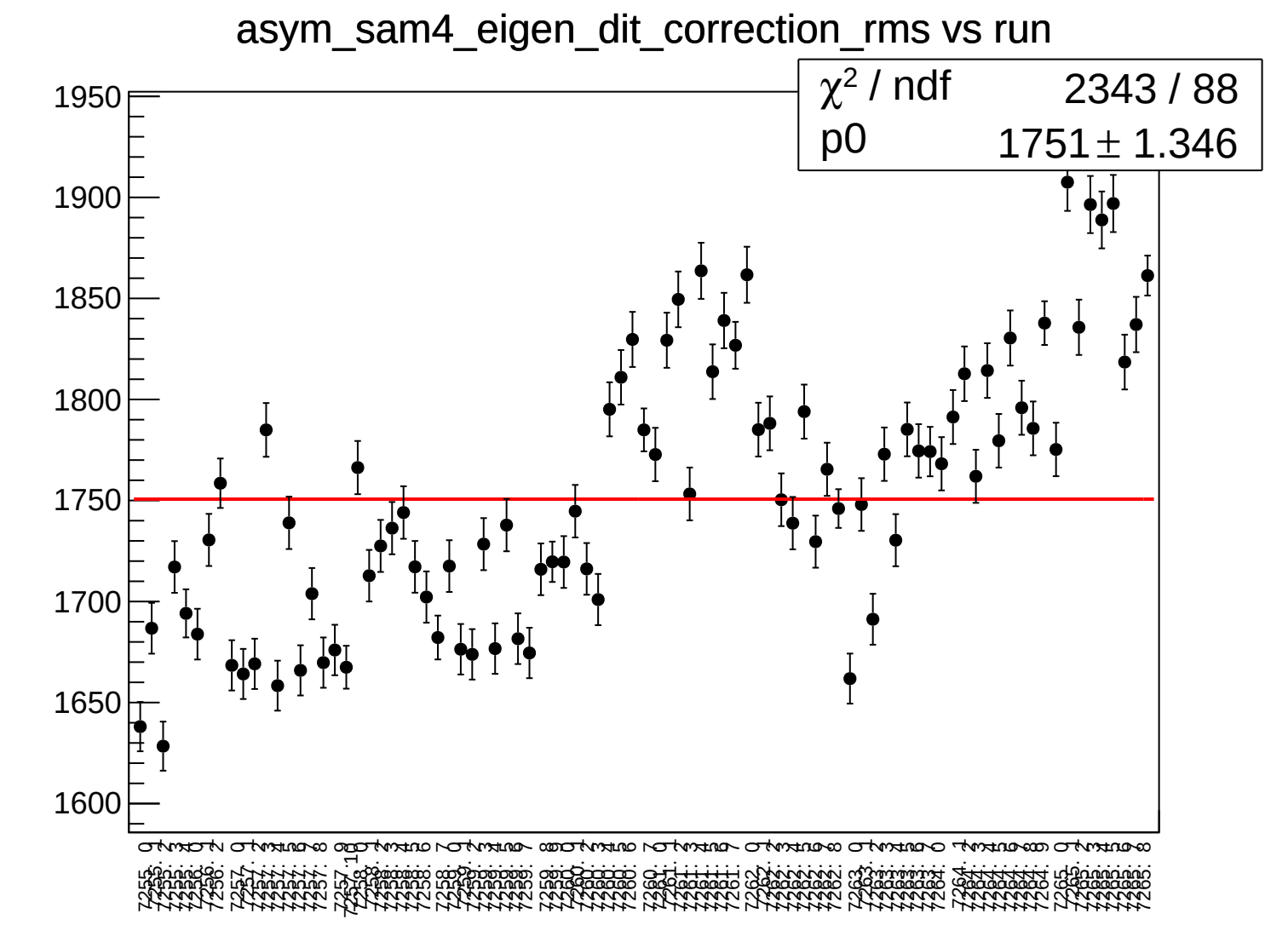

eigen_dit_asym_sam4_mean vs run
χ² / ndf 63.68 / 88
p0 56.12 ± 314
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 166.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

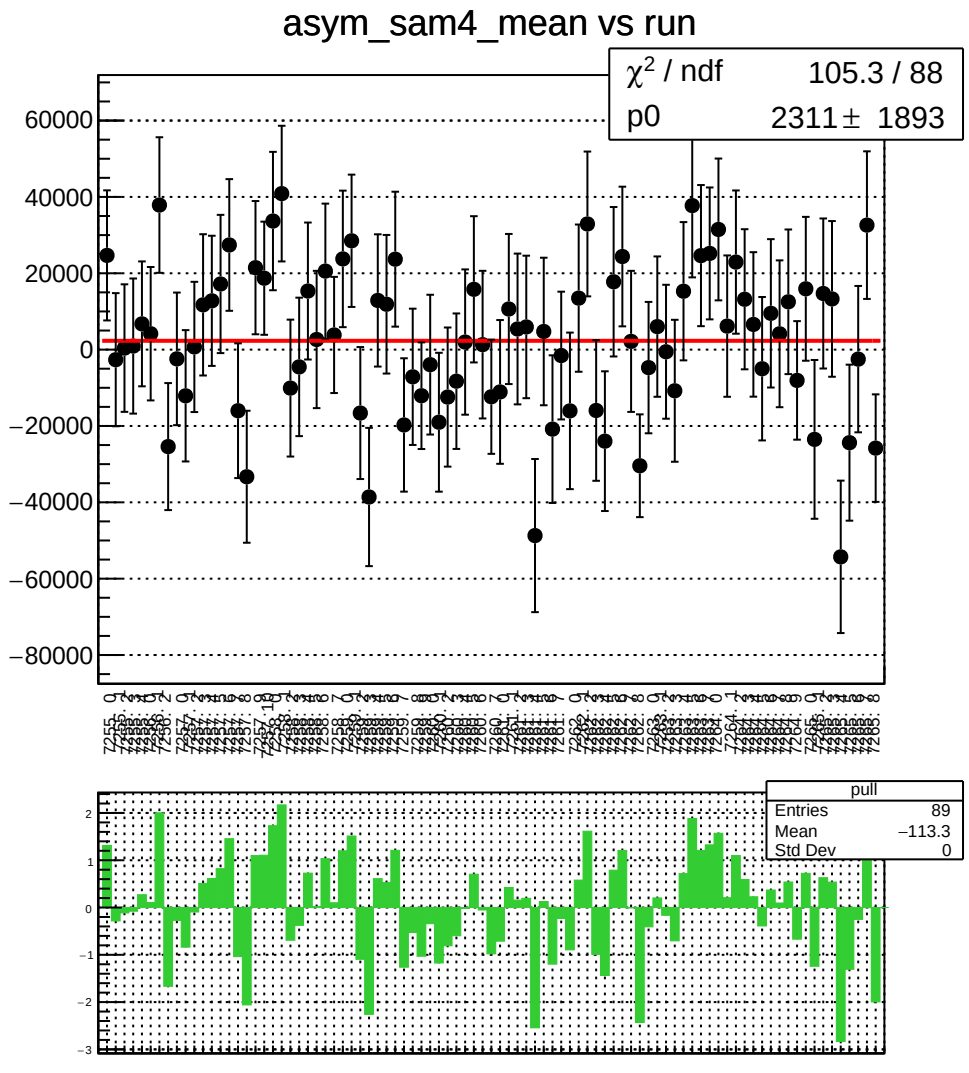

pull1D
Entries 89
Mean −0.01304
Std Dev 0.8458
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

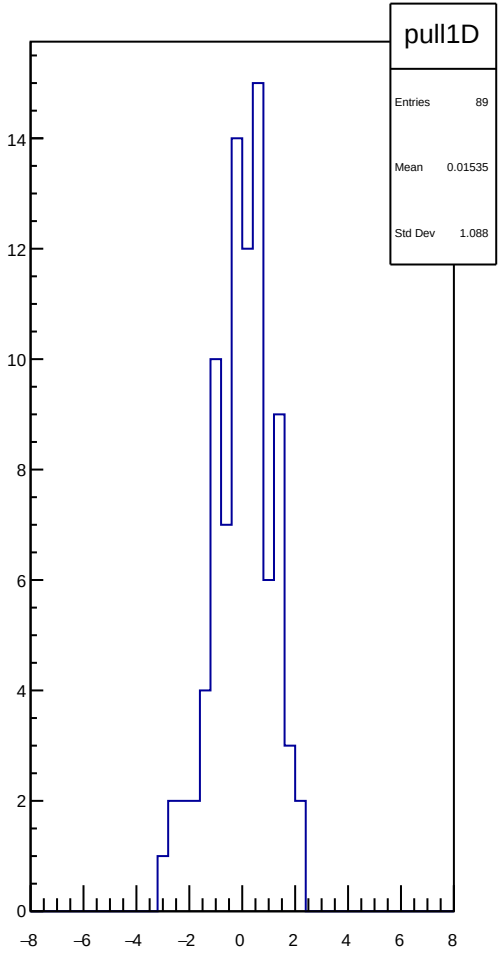

eigen_dit_asym_sam4_rms vs run
χ^2 / ndf 4.435e+04 / 88
p0 285.2 ± 0.222
500
450
400
350
300
250

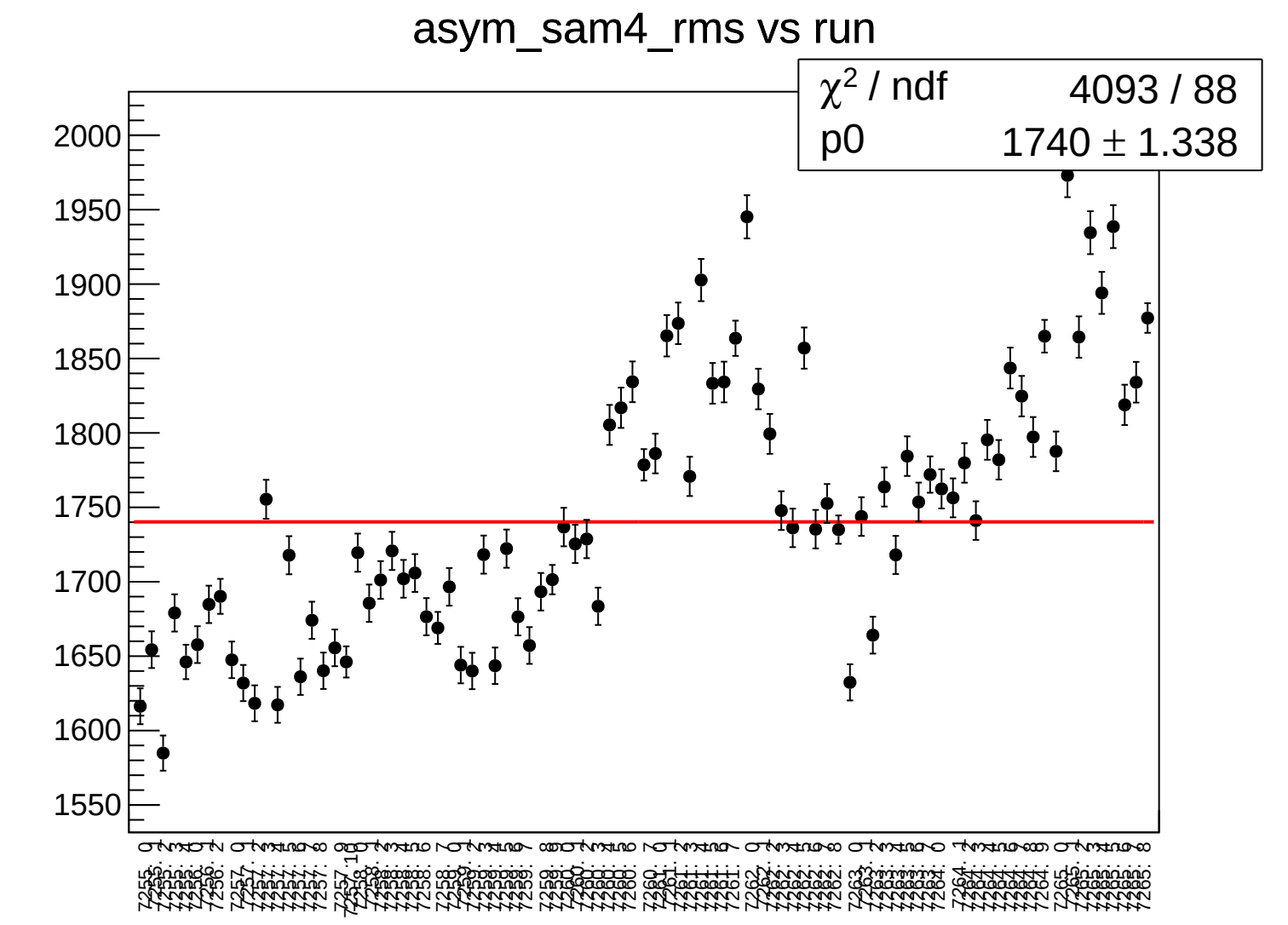

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 103.9 / 88
p0 −2257 ± 1903
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −78.31
Std Dev 0
3
2
1
0
−1
−2

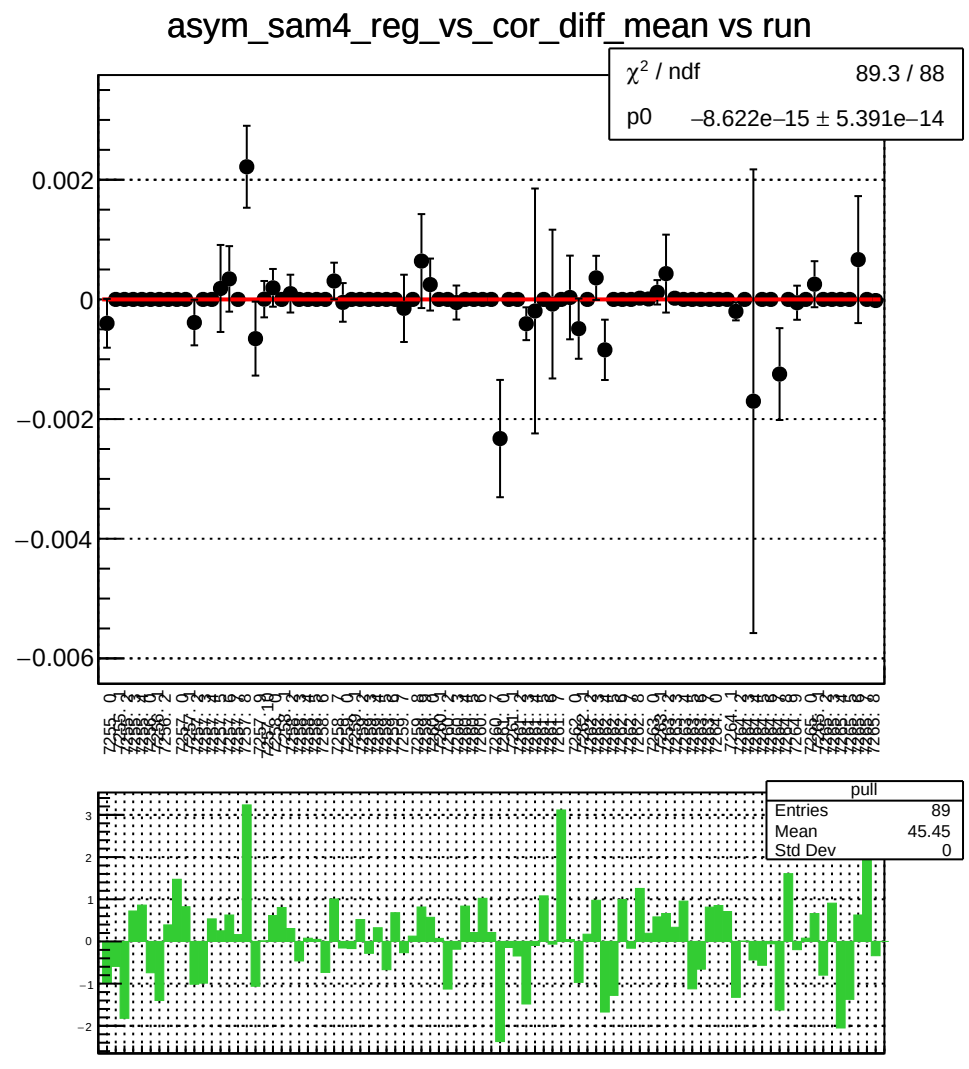

pull1D
Entries 89
Mean −0.01764
Std Dev 1.08
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

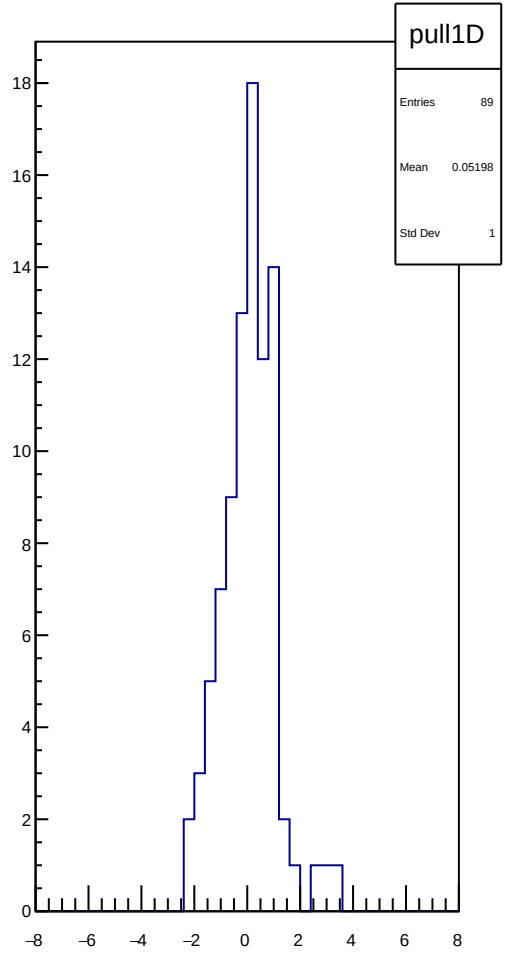

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 2343 / 88
p0 1751 ± 1.346
1950
1900
1850
1800
1750
1700
1650
1600

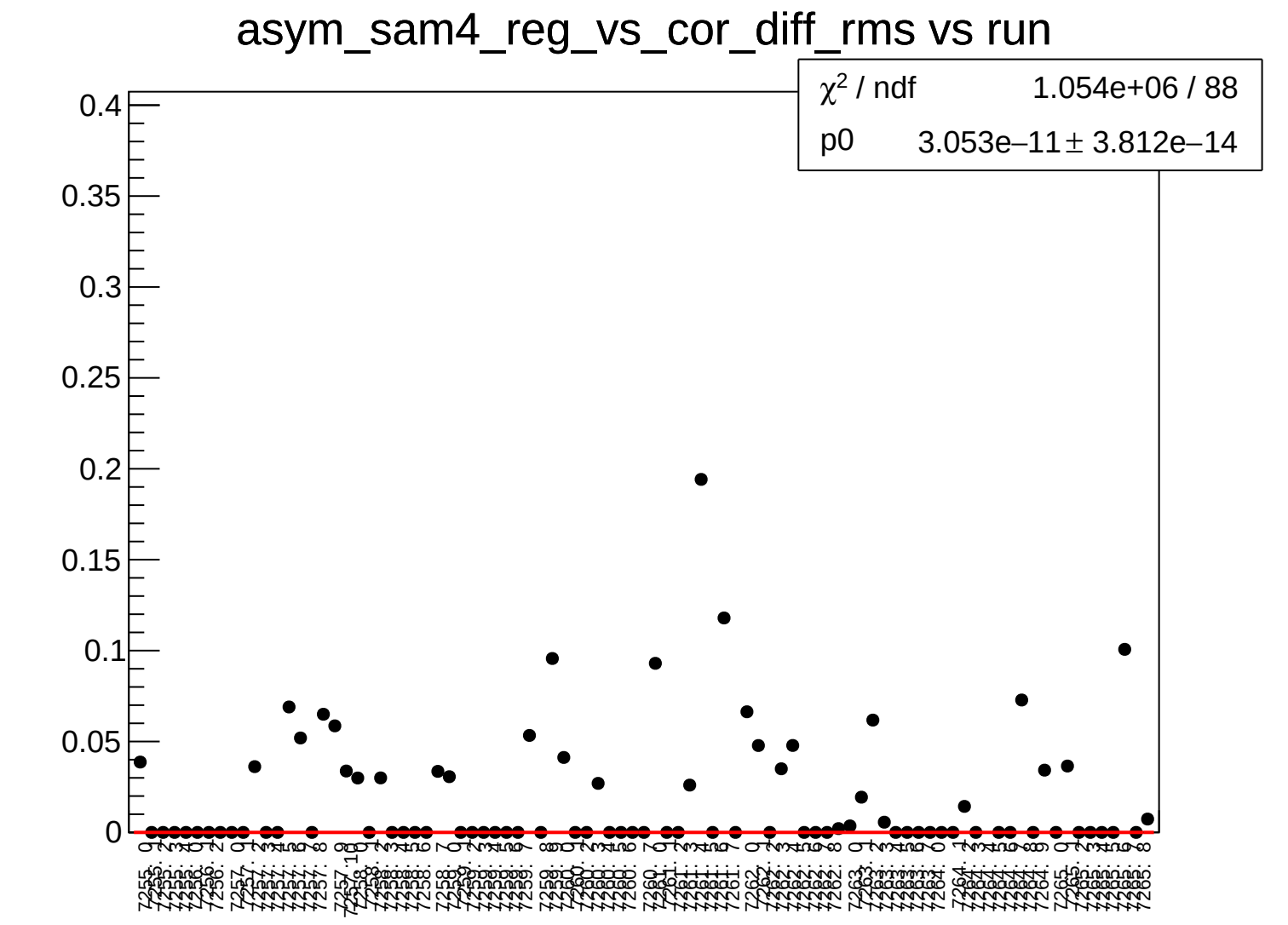

asym_sam4_mean vs run
χ² / ndf 105.3 / 88
p0 2311 ± 1893
pull
Entries 89
Mean −113.3
Std Dev 0

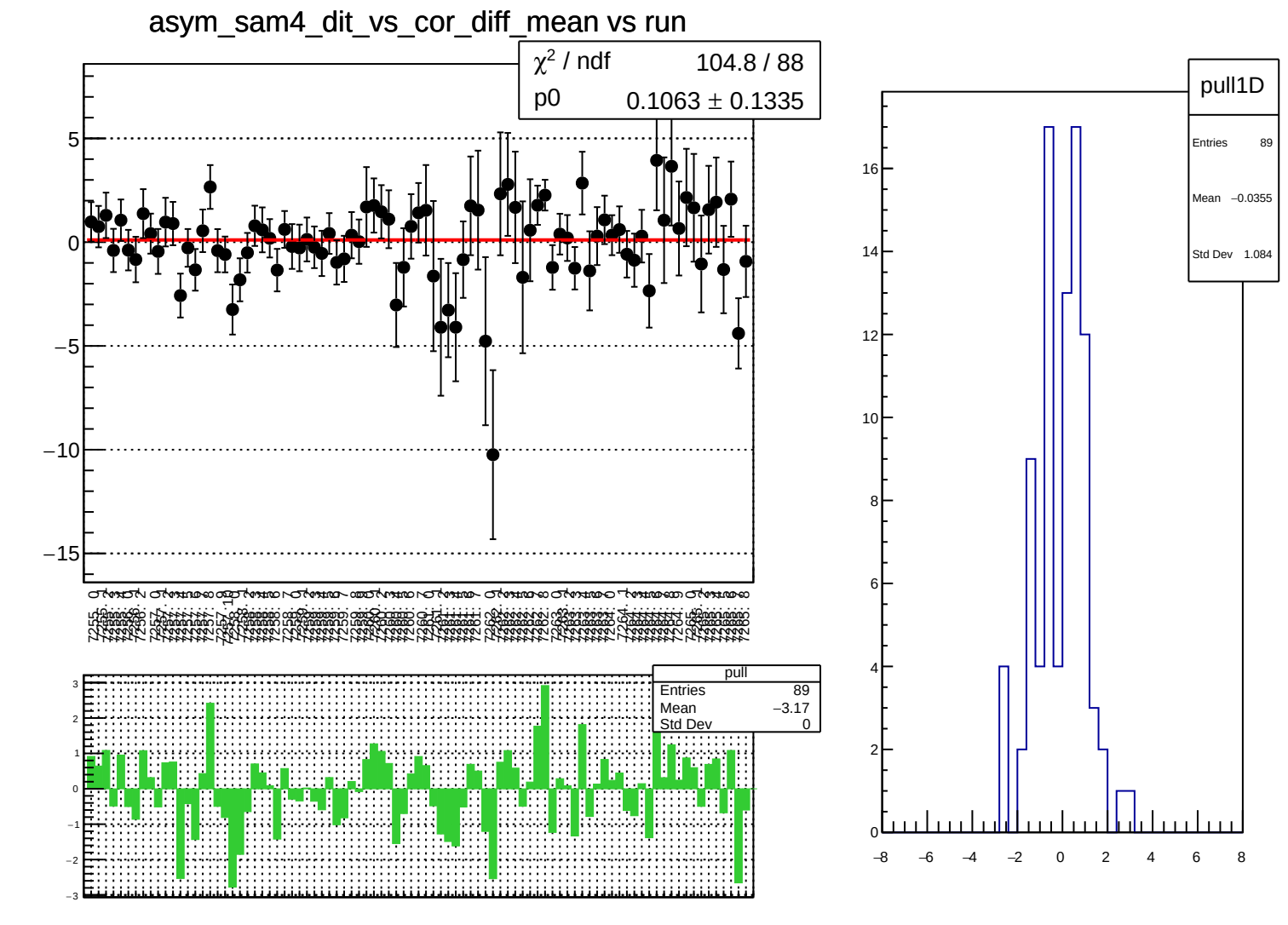

pull1D
Entries 89
Mean 0.01535
Std Dev 1.088

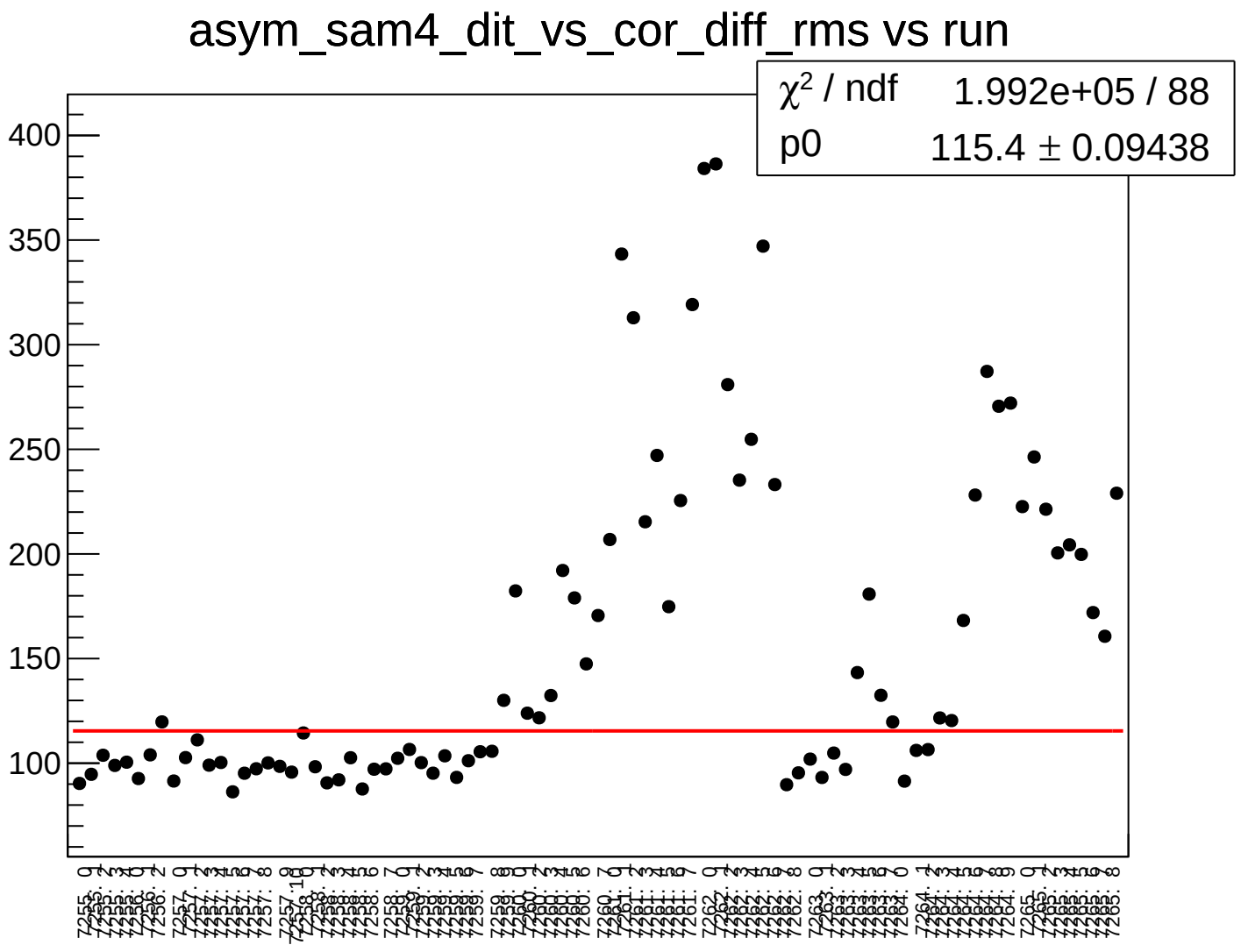

asym_sam4_rms vs run
χ² / ndf 4093 / 88
p0 1740 ± 1.338
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550

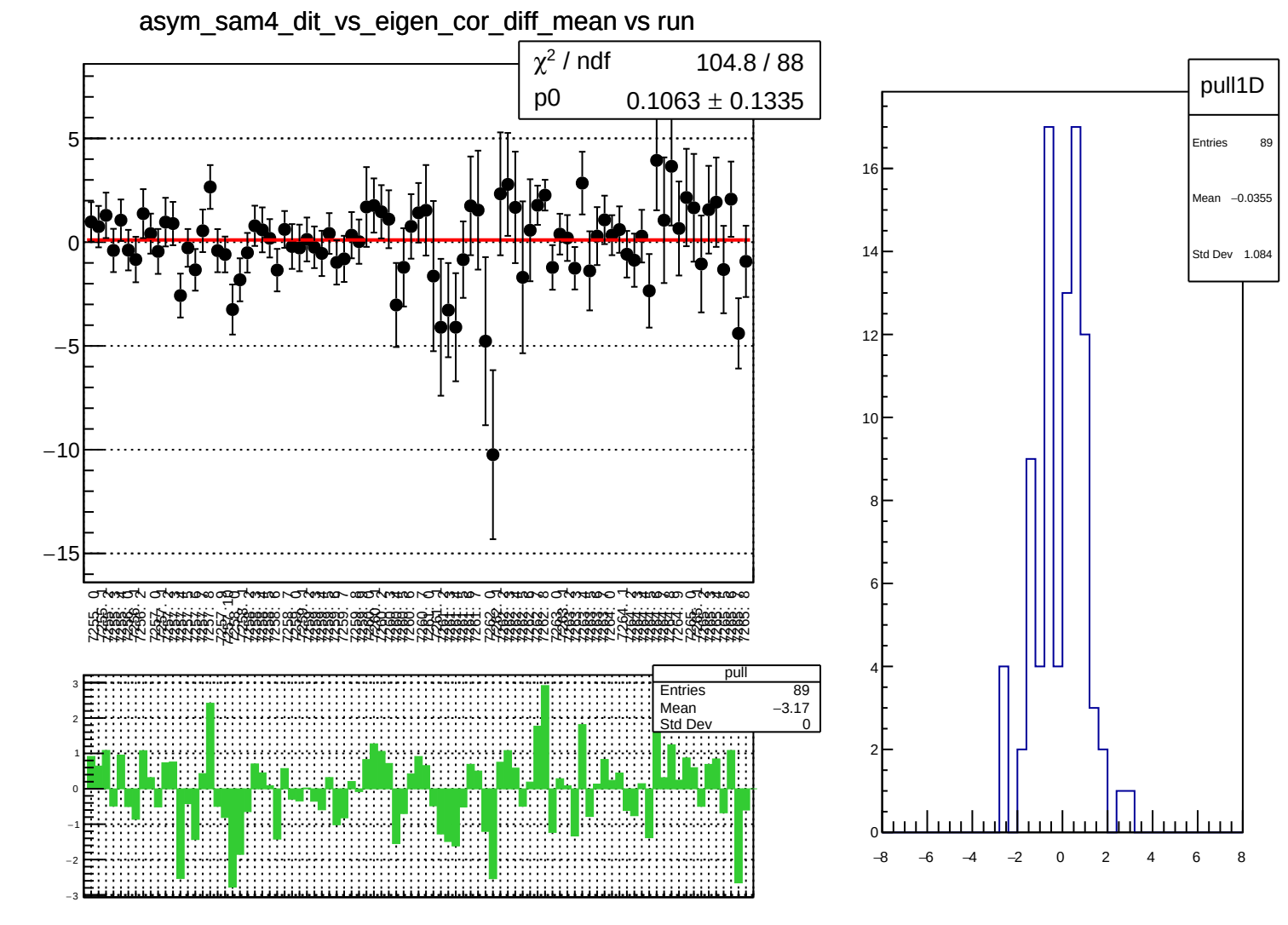

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 89.3 / 88
p0 −8.622e−15 ± 5.391e−14
0.002
0
−0.002
−0.004
−0.006
pull
Entries 89
Mean 45.45
Std Dev 0
3
2
1
0
−1
−2

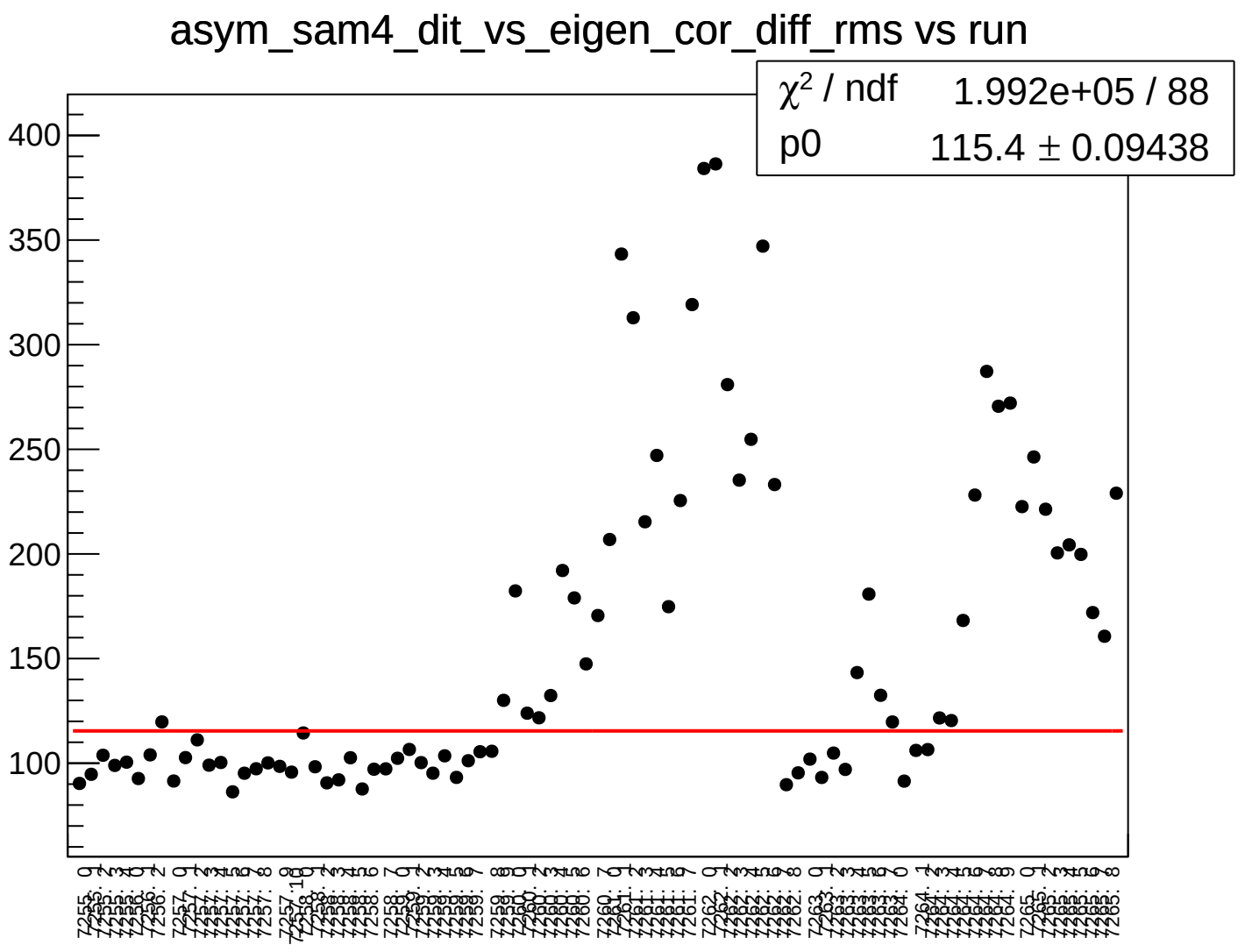

pull1D
Entries 89
Mean 0.05198
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

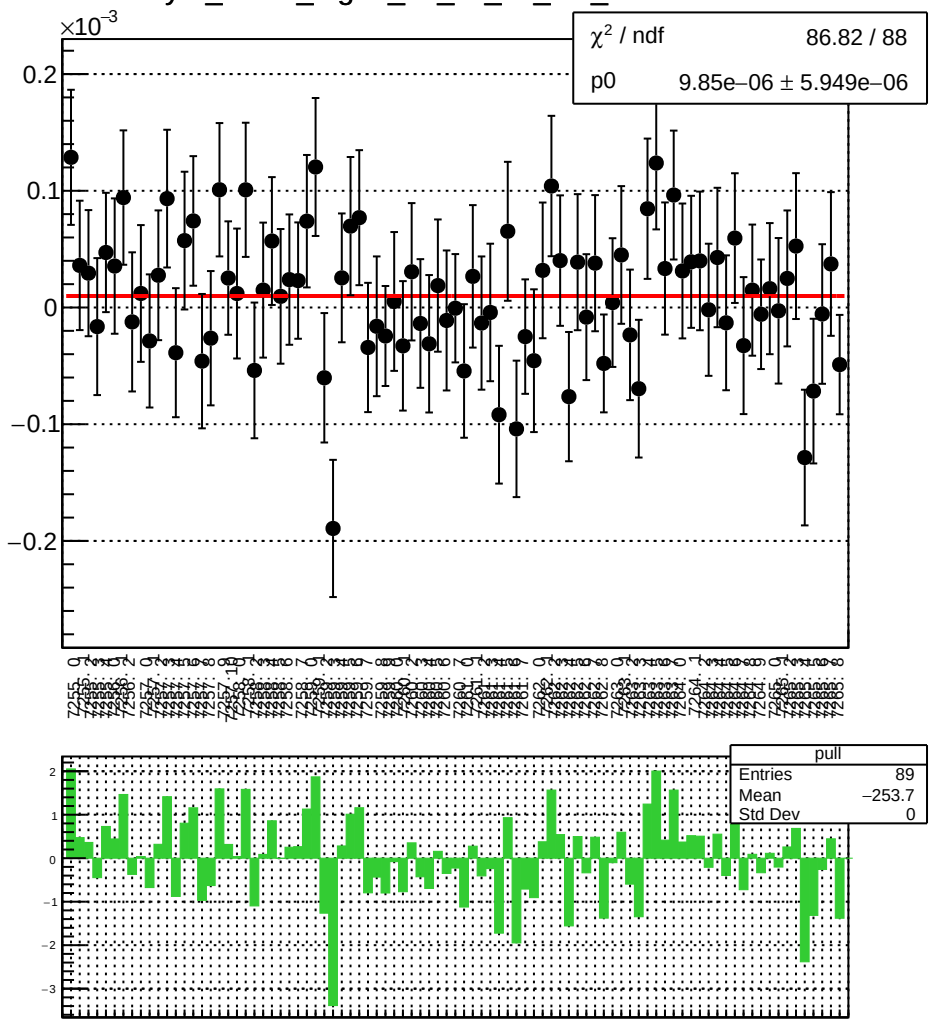

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.054e+06 / 88
p0 3.053e−11 ± 3.812e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

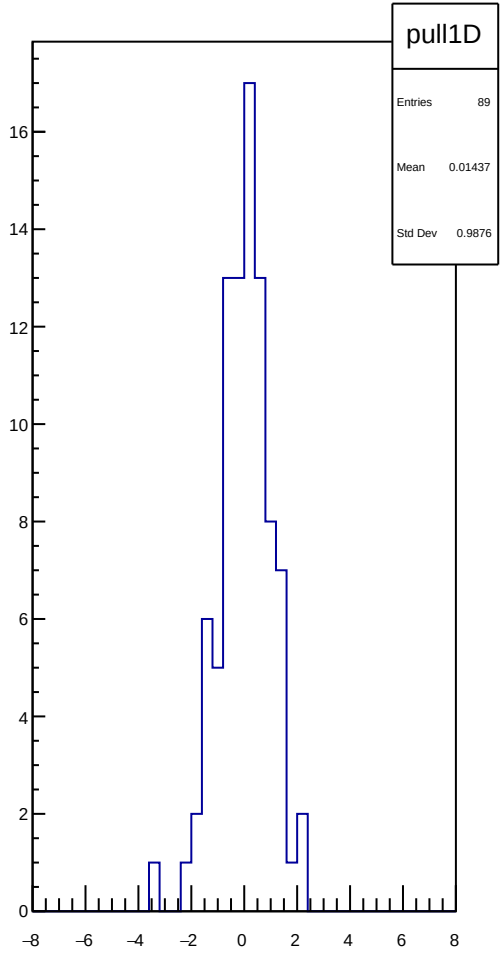

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 104.8 / 88
p0 0.1063 ± 0.1335
pull
Entries 89
Mean −3.17
Std Dev 0
pull1D
Entries 89
Mean −0.0355
Std Dev 1.084

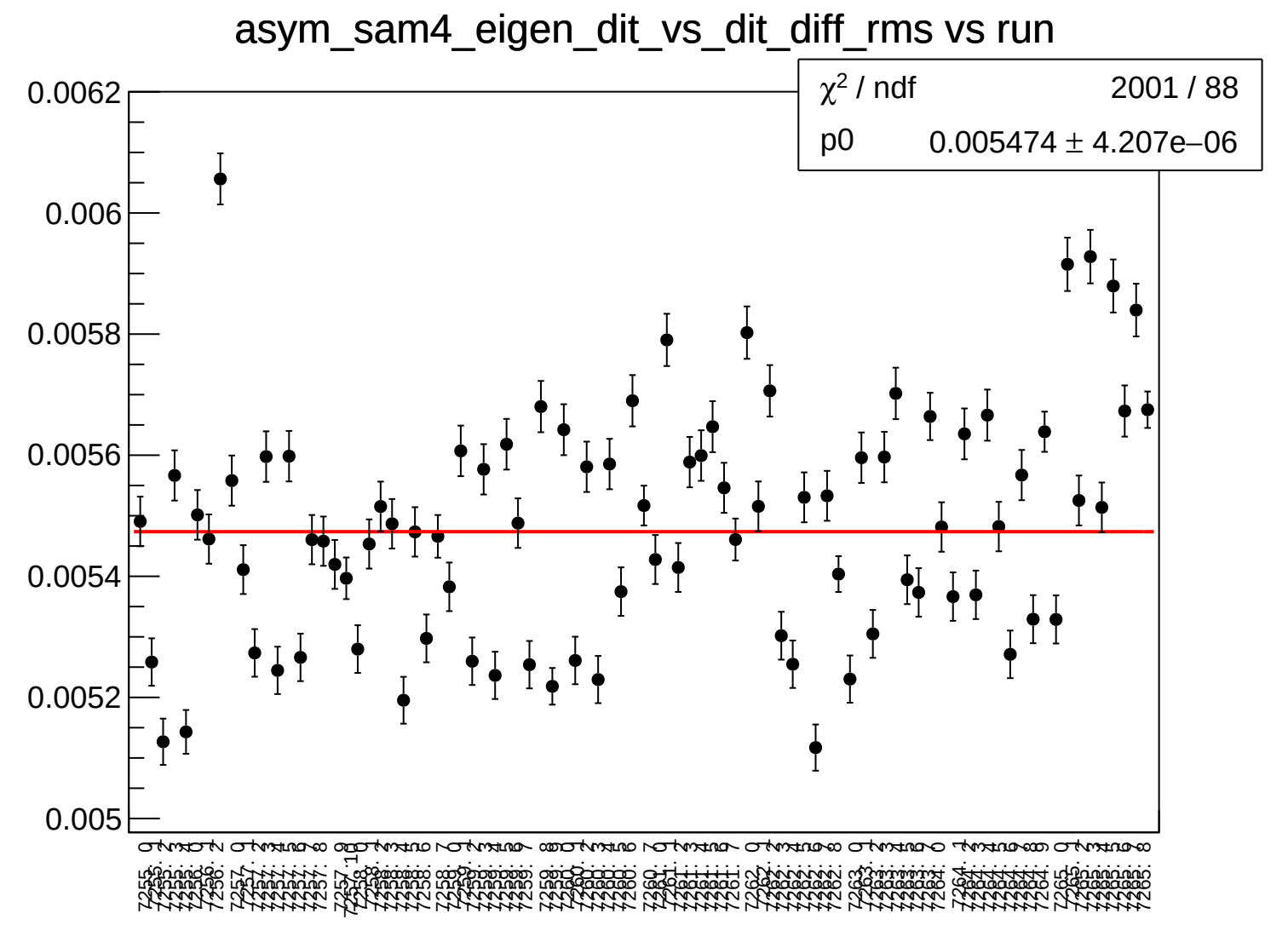

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 1.992e+05 / 88
p0 115.4 ± 0.09438
400
350
300
250
200
150
100

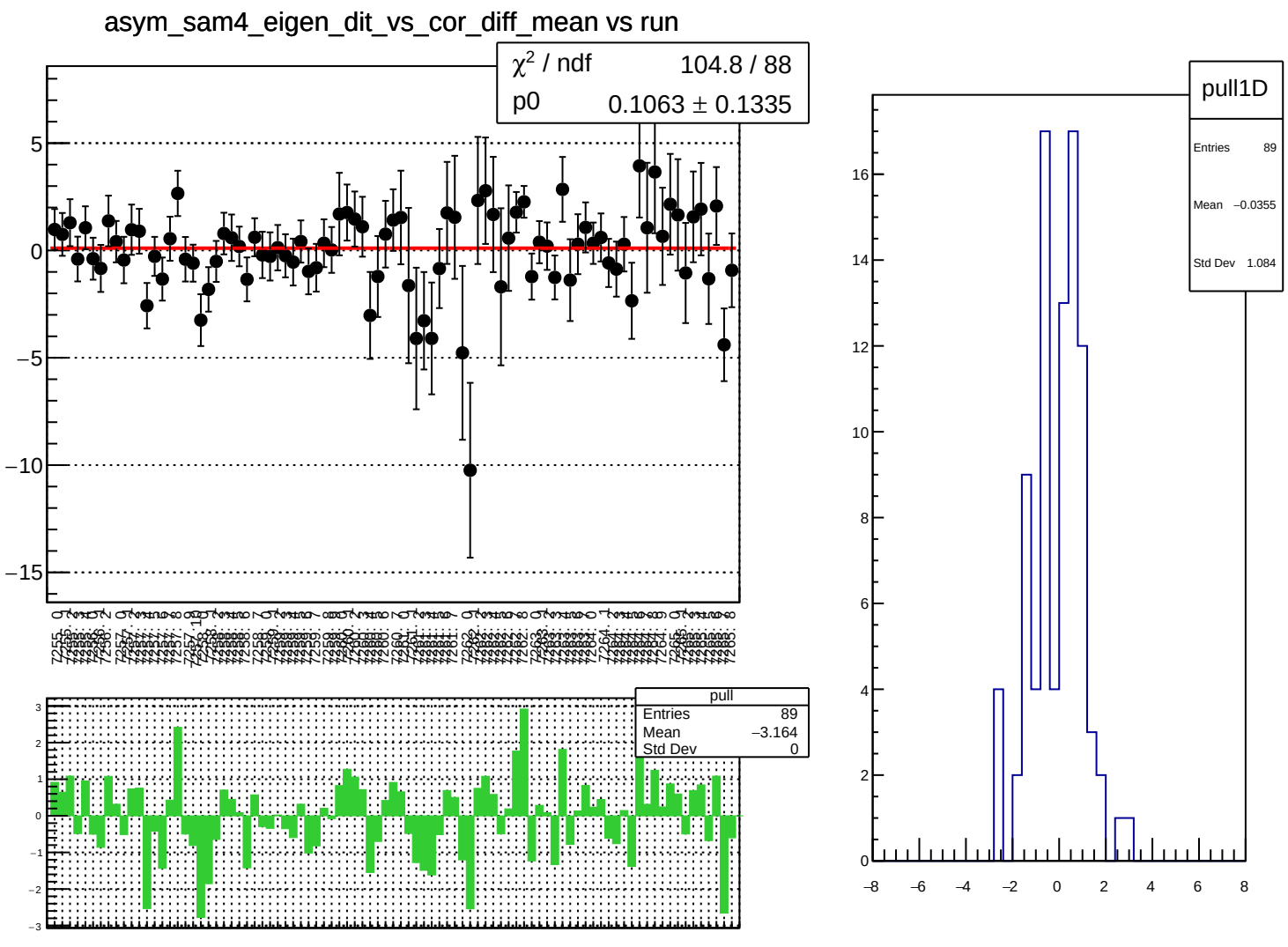

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.8 / 88
p0 0.1063 ± 0.1335
pull
Entries 89
Mean −3.17
Std Dev 0
pull1D
Entries 89
Mean −0.0355
Std Dev 1.084

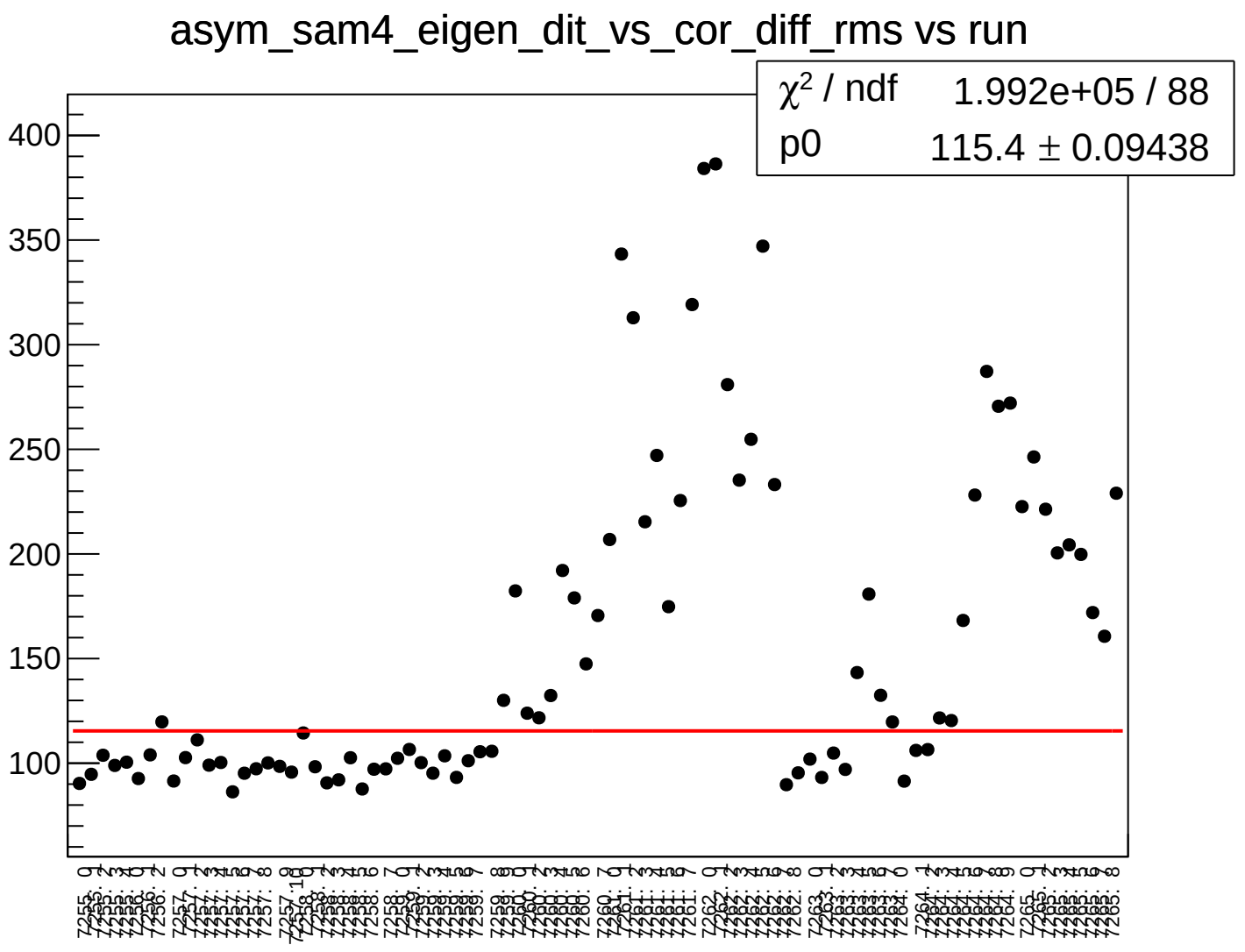

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.992e+05 / 88
p0 115.4 ± 0.09438
400
350
300
250
200
150
100

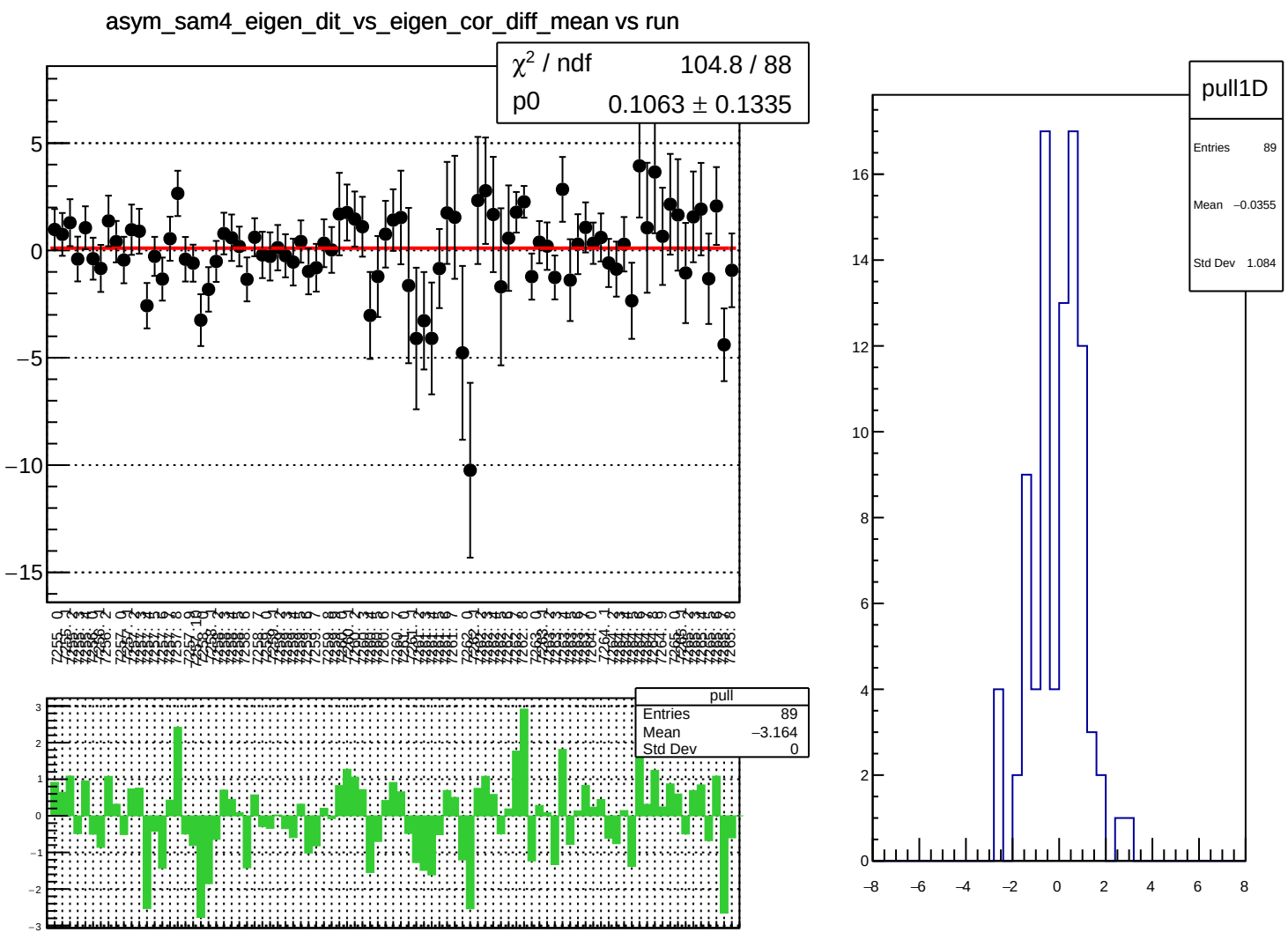

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.82 / 88
p0 9.85e−06 ± 5.949e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 89
Mean −253.7
Std Dev 0
2
1
0
−1
−2
−3

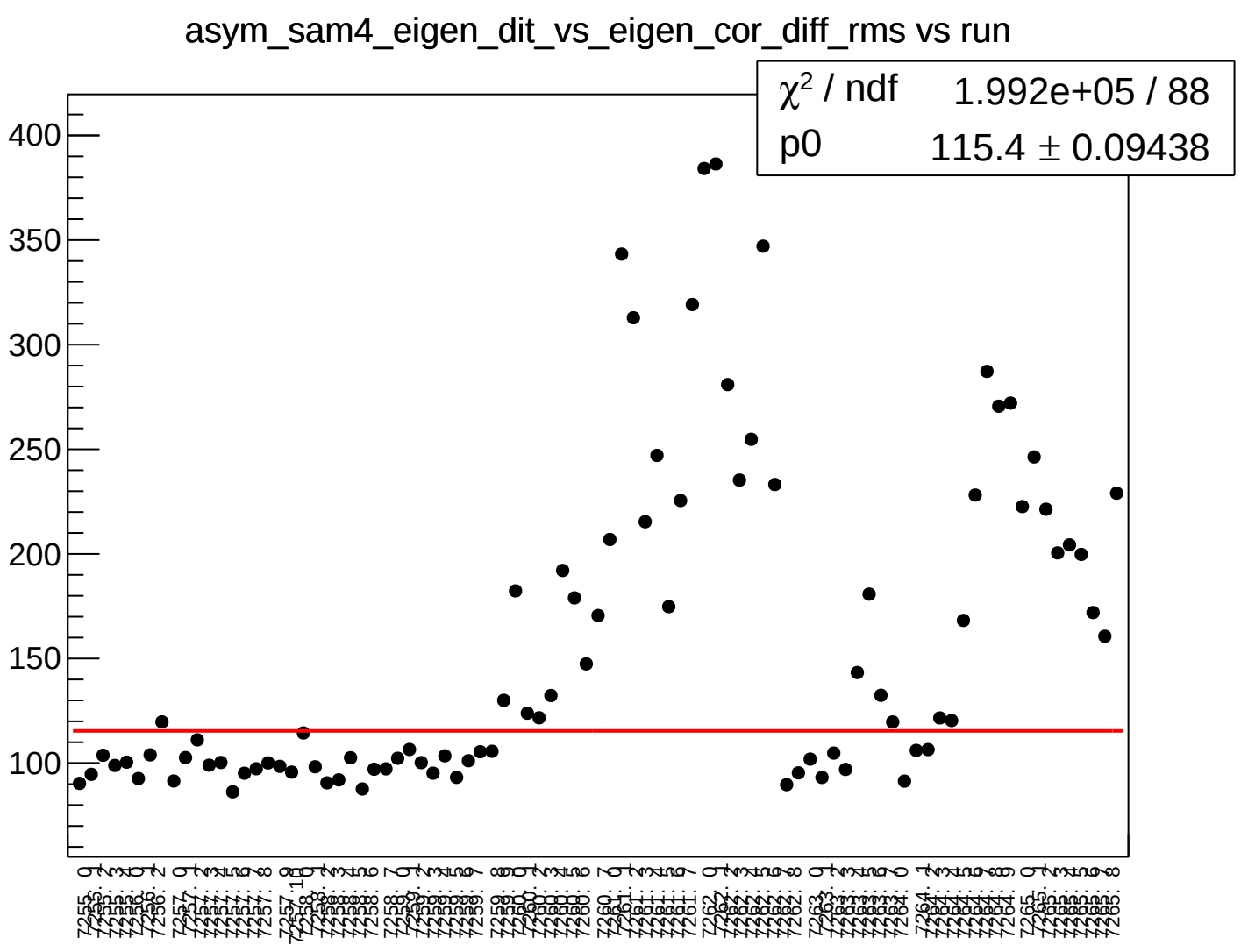

pull1D
Entries 89
Mean 0.01437
Std Dev 0.9876
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

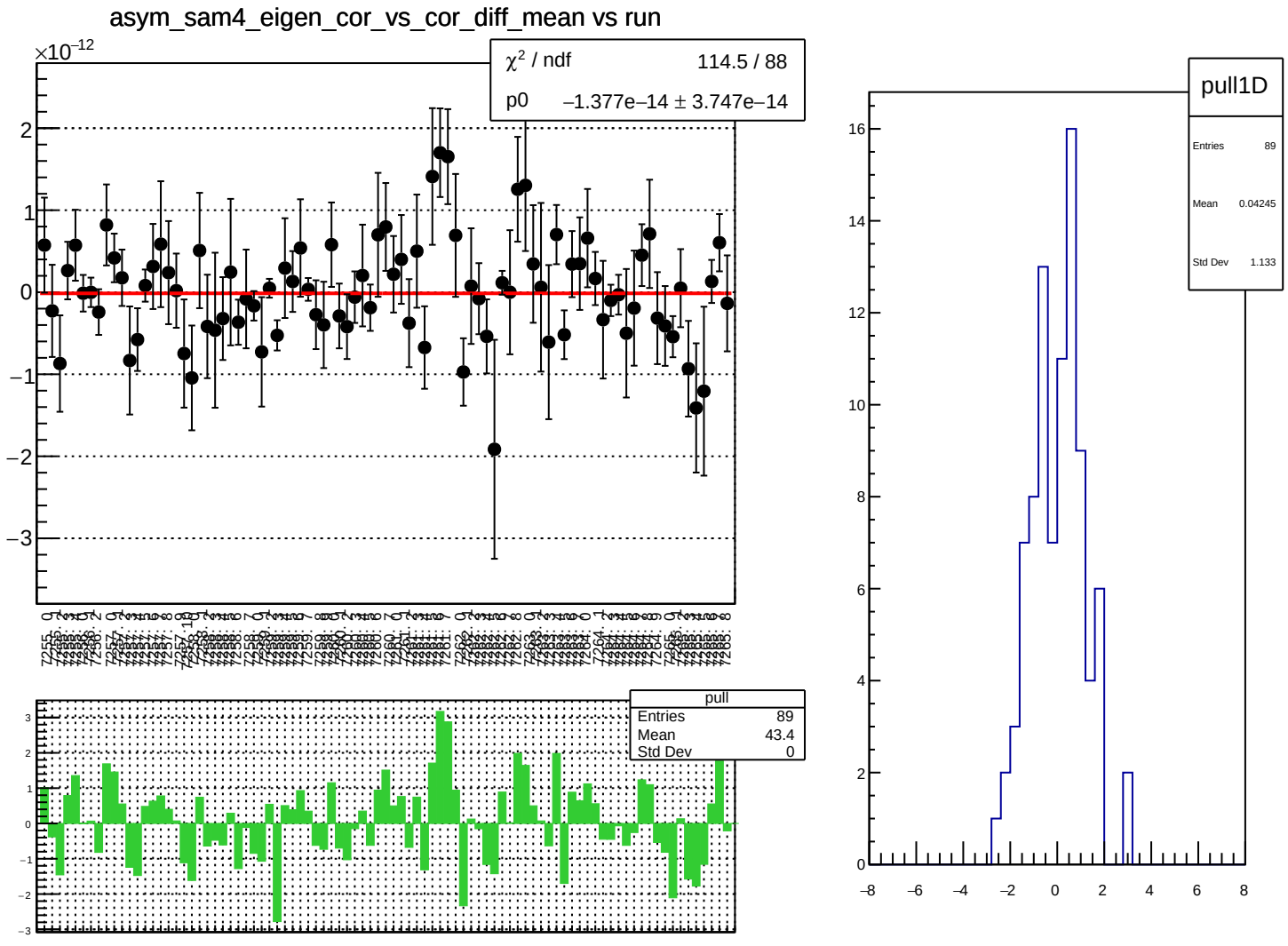

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2001 / 88
p0 0.005474 ± 4.207e−06
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005

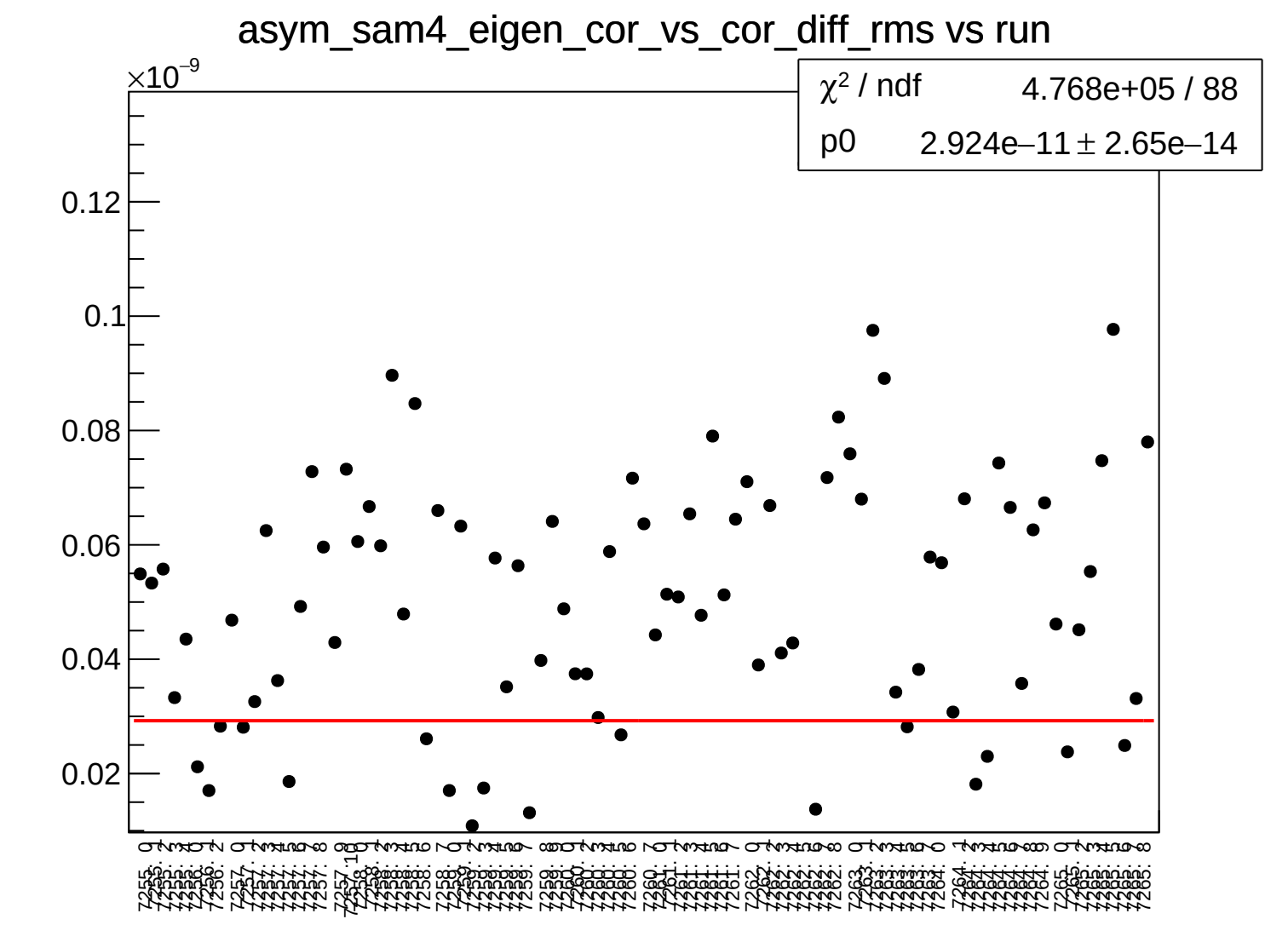

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.8 / 88
p0 0.1063 ± 0.1335
pull
Entries 89
Mean −3.164
Std Dev 0
pull1D
Entries 89
Mean −0.0355
Std Dev 1.084

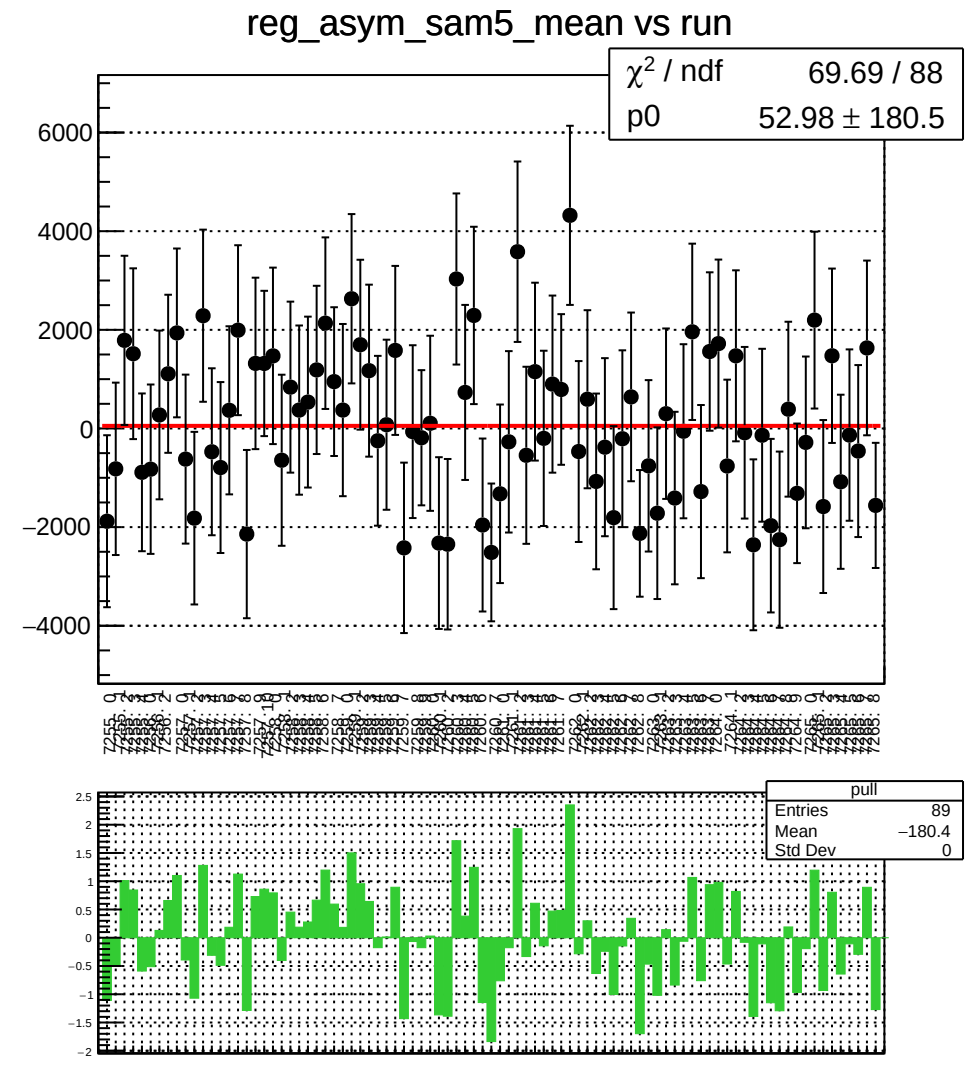

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.992e+05 / 88
p0 115.4 ± 0.09438
400
350
300
250
200
150
100

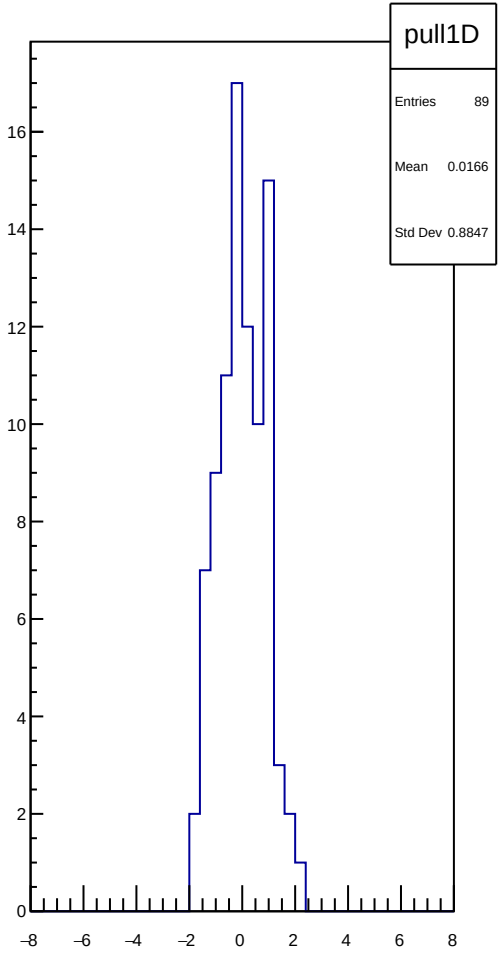

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.8 / 88
p0 0.1063 ± 0.1335
pull
Entries 89
Mean −3.164
Std Dev 0
pull1D
Entries 89
Mean −0.0355
Std Dev 1.084

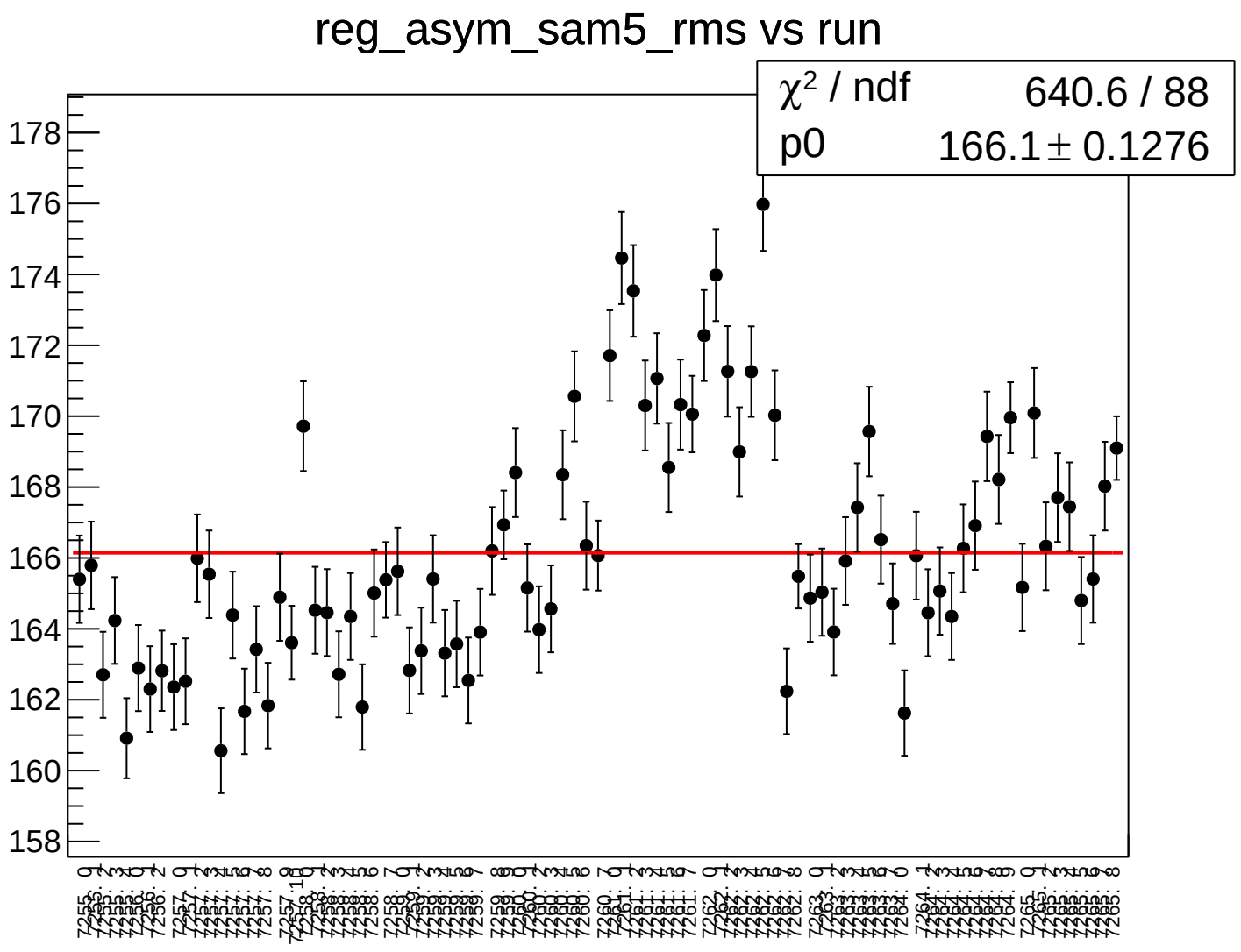

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.992e+05 / 88
p0 115.4 ± 0.09438
400
350
300
250
200
150
100

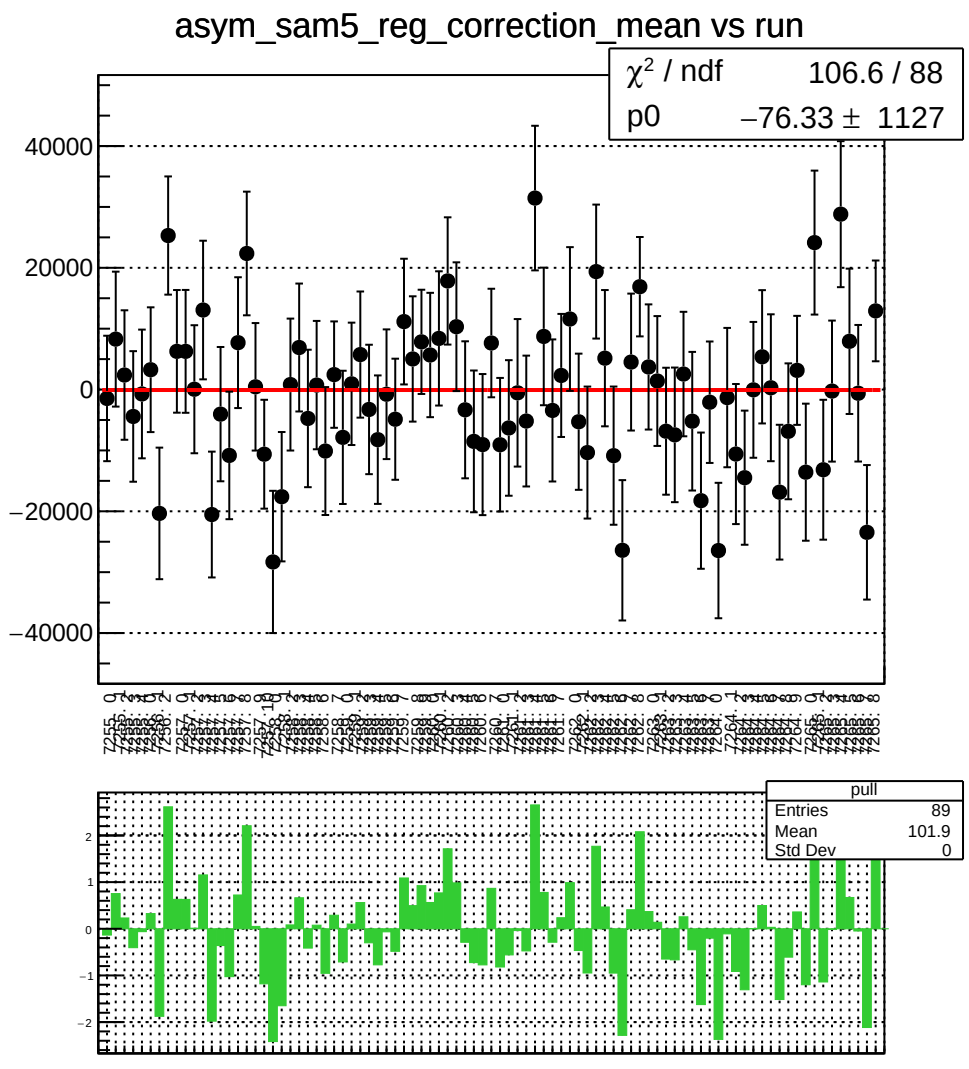

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 114.5 / 88
p0 −1.377e−14 ± 3.747e−14
pull
Entries 89
Mean 43.4
Std Dev 0
pull1D
Entries 89
Mean 0.04245
Std Dev 1.133

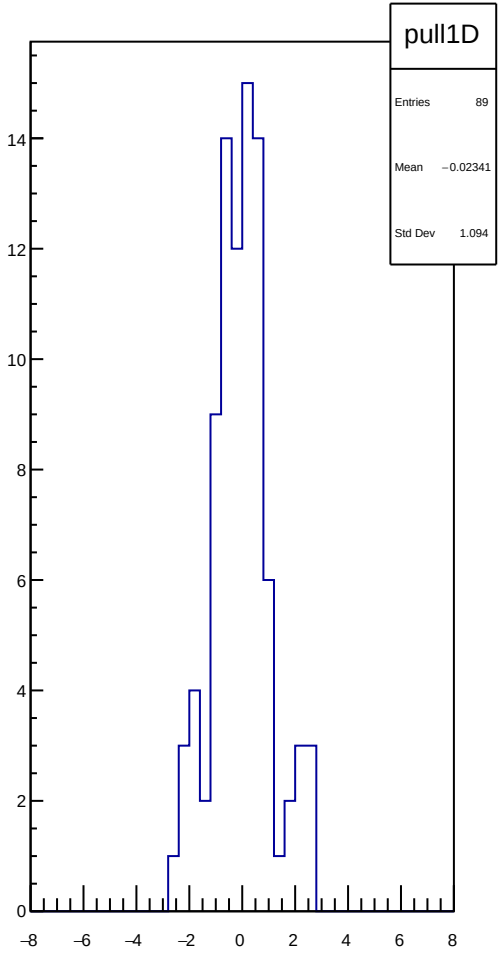

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.768e+05 / 88
p0 2.924e−11 ± 2.65e−14
0.12
0.1
0.08
0.06
0.04
0.02

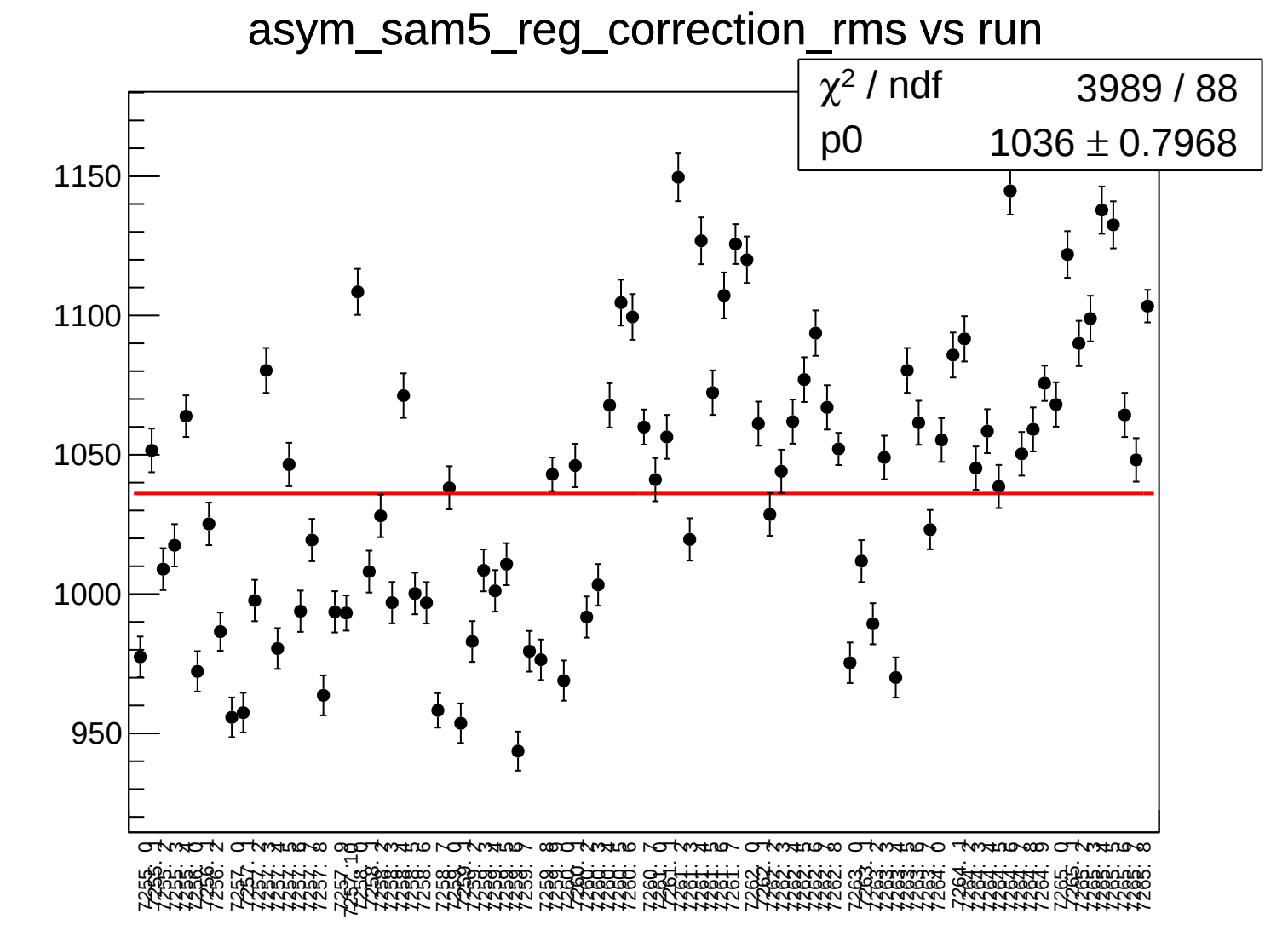

reg_asym_sam5_mean vs run
χ² / ndf 69.69 / 88
p0 52.98 ± 180.5
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −180.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

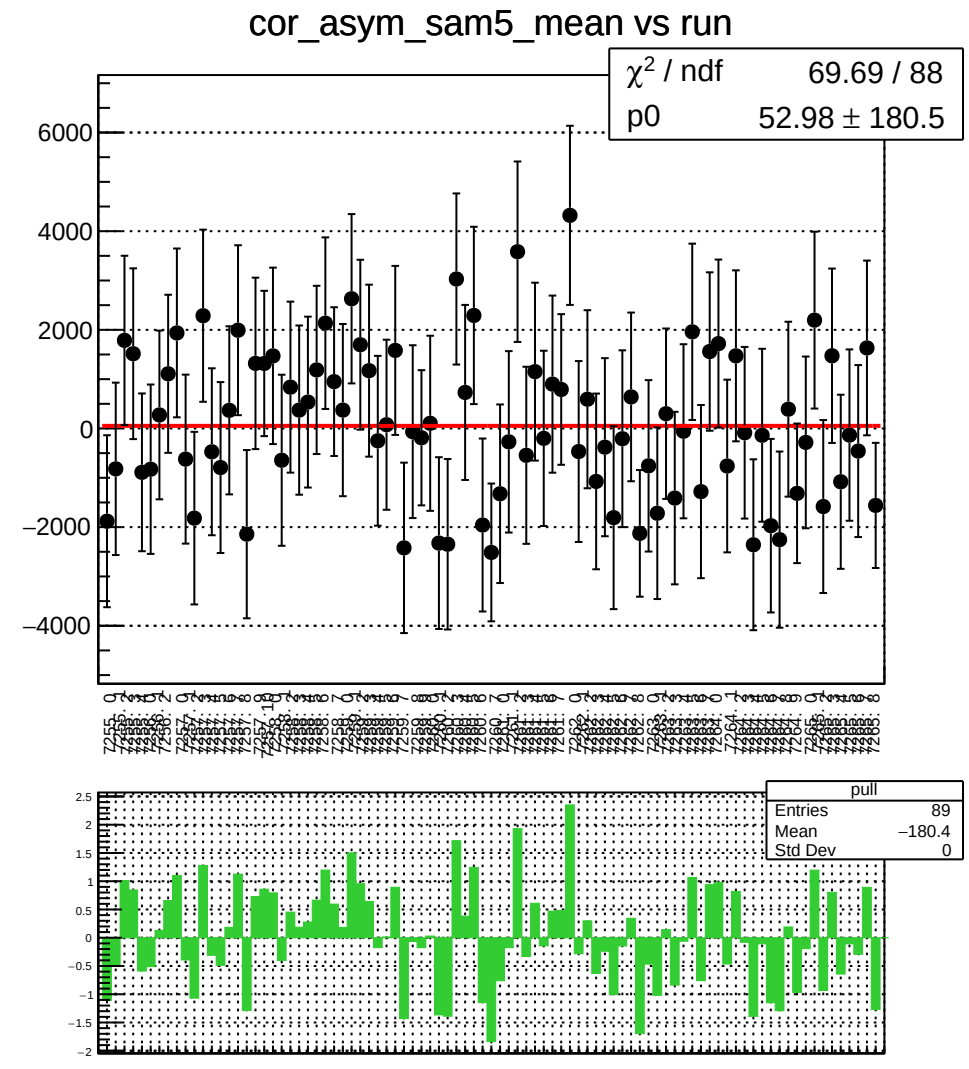

pull1D
Entries 89
Mean 0.0166
Std Dev 0.8847
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

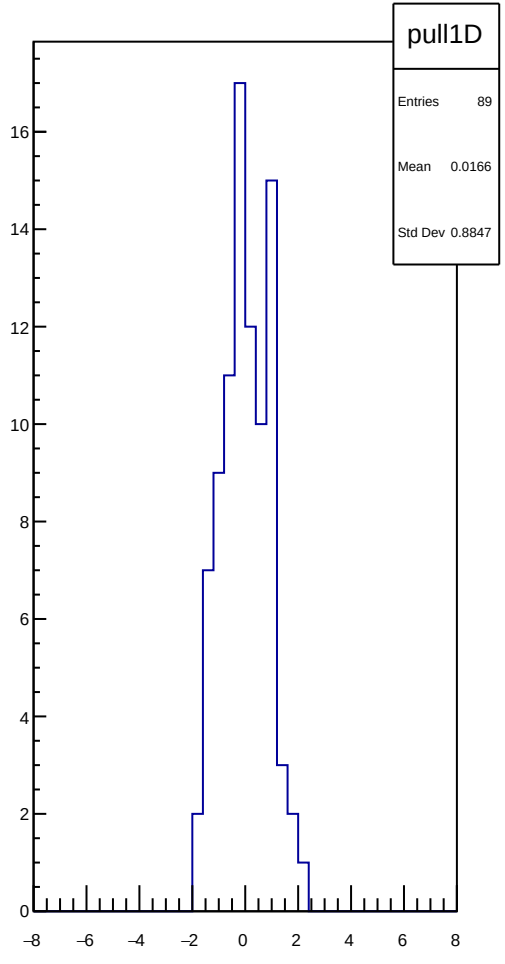

reg_asym_sam5_rms vs run
χ² / ndf 640.6 / 88
p0 166.1 ± 0.1276
178
176
174
172
170
168
166
164
162
160
158

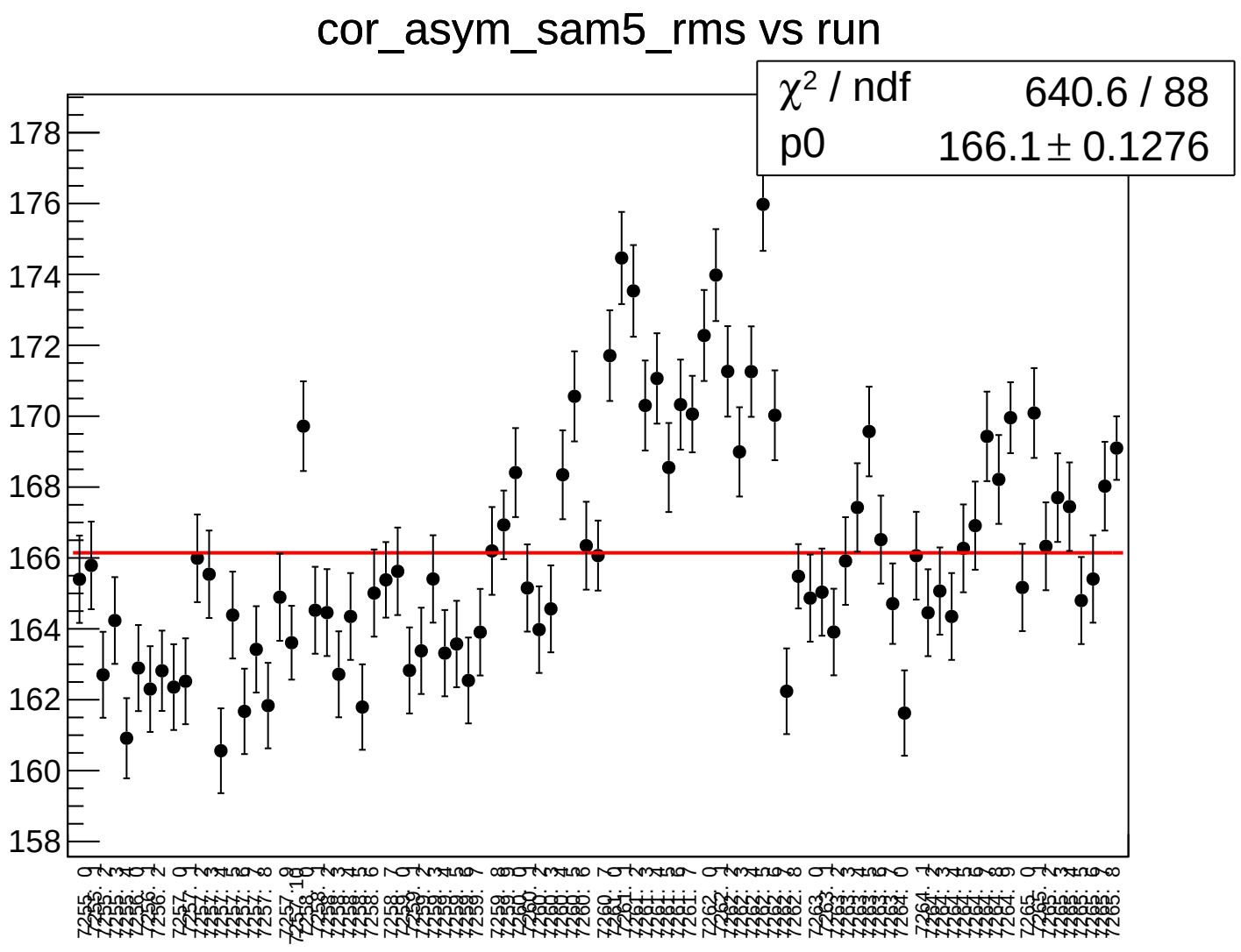

asym_sam5_reg_correction_mean vs run
χ² / ndf 106.6 / 88
p0 −76.33 ± 1127
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 101.9
Std Dev 0
2
1
0
−1
−2

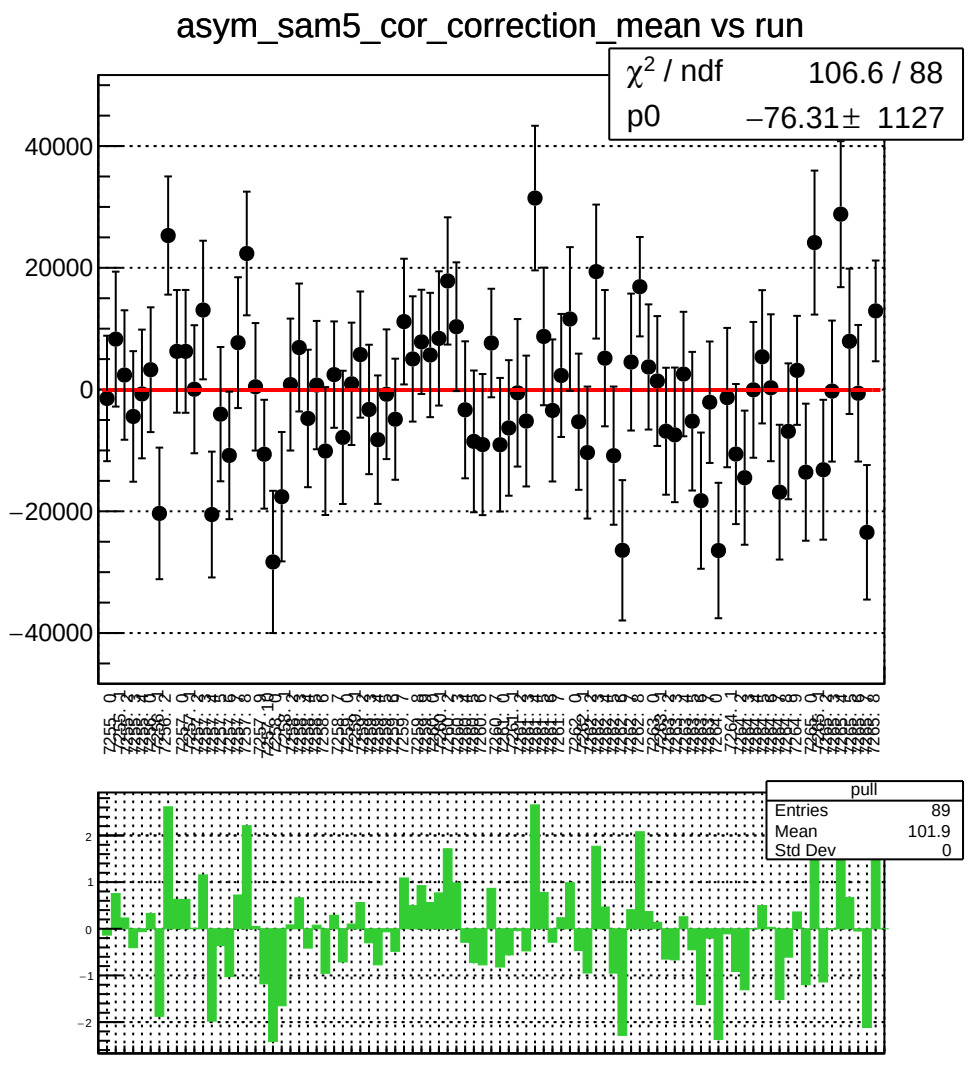

pull1D
Entries 89
Mean −0.02341
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

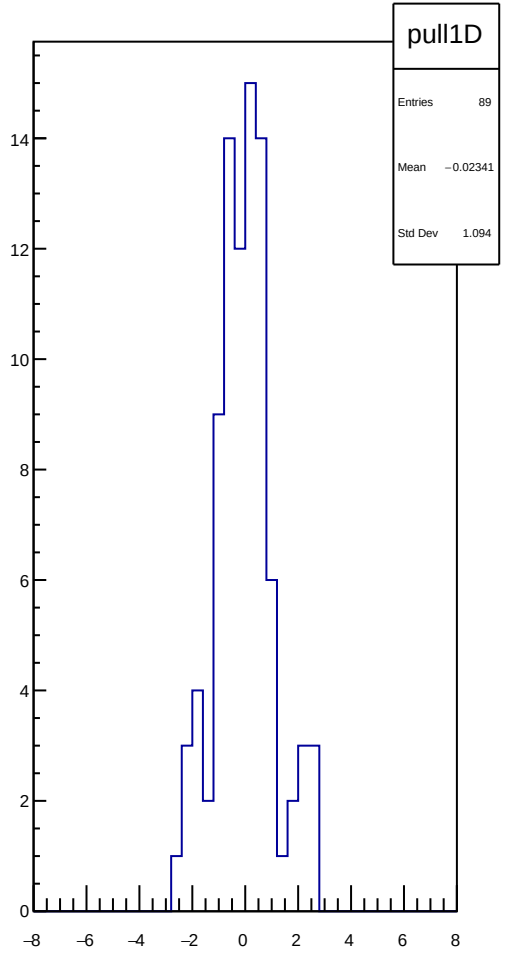

asym_sam5_reg_correction_rms vs run
χ² / ndf 3989 / 88
p0 1036 ± 0.7968
1150
1100
1050
1000
950

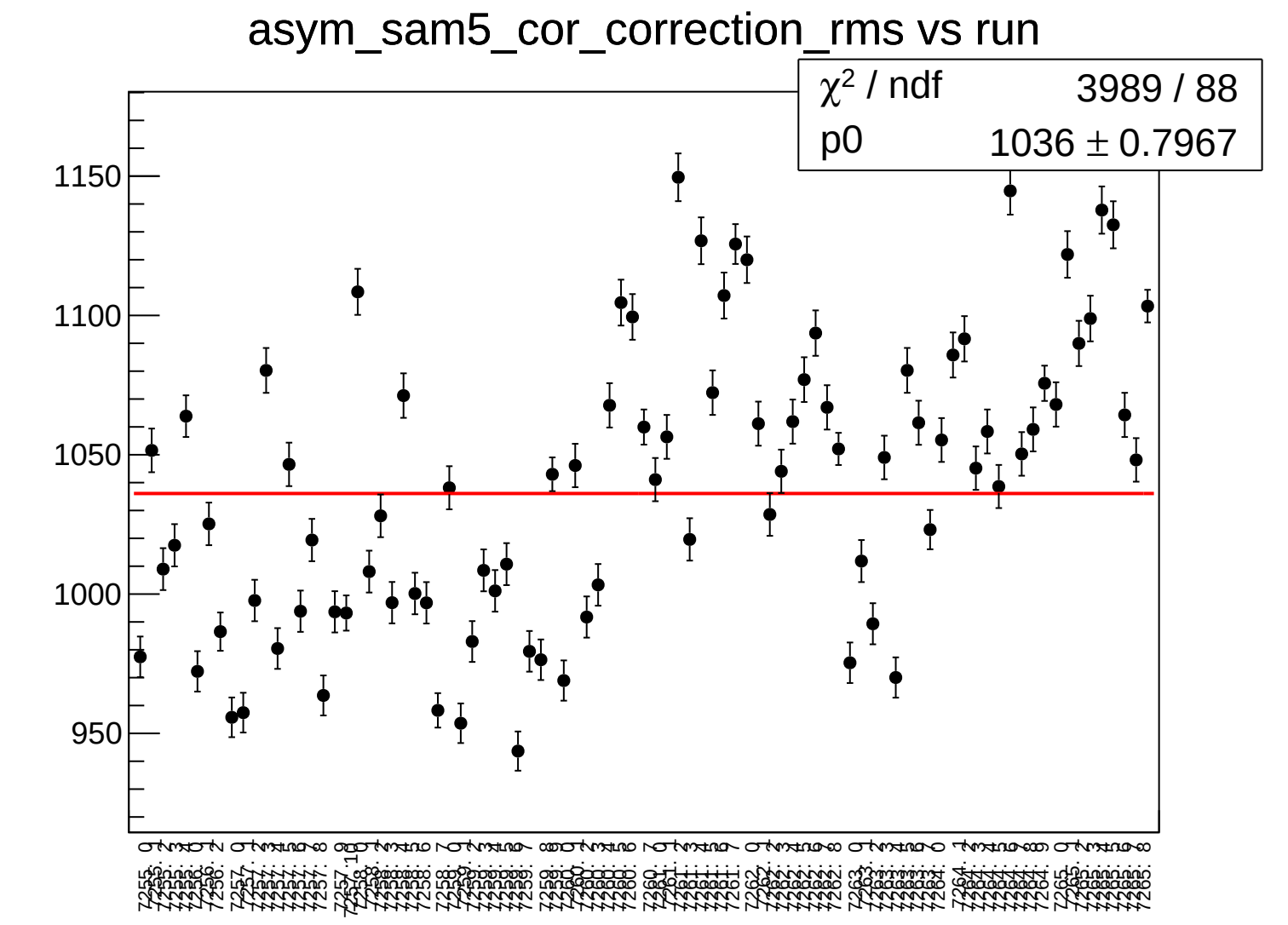

cor_asym_sam5_mean vs run
χ² / ndf 69.69 / 88
p0 52.98 ± 180.5
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −180.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

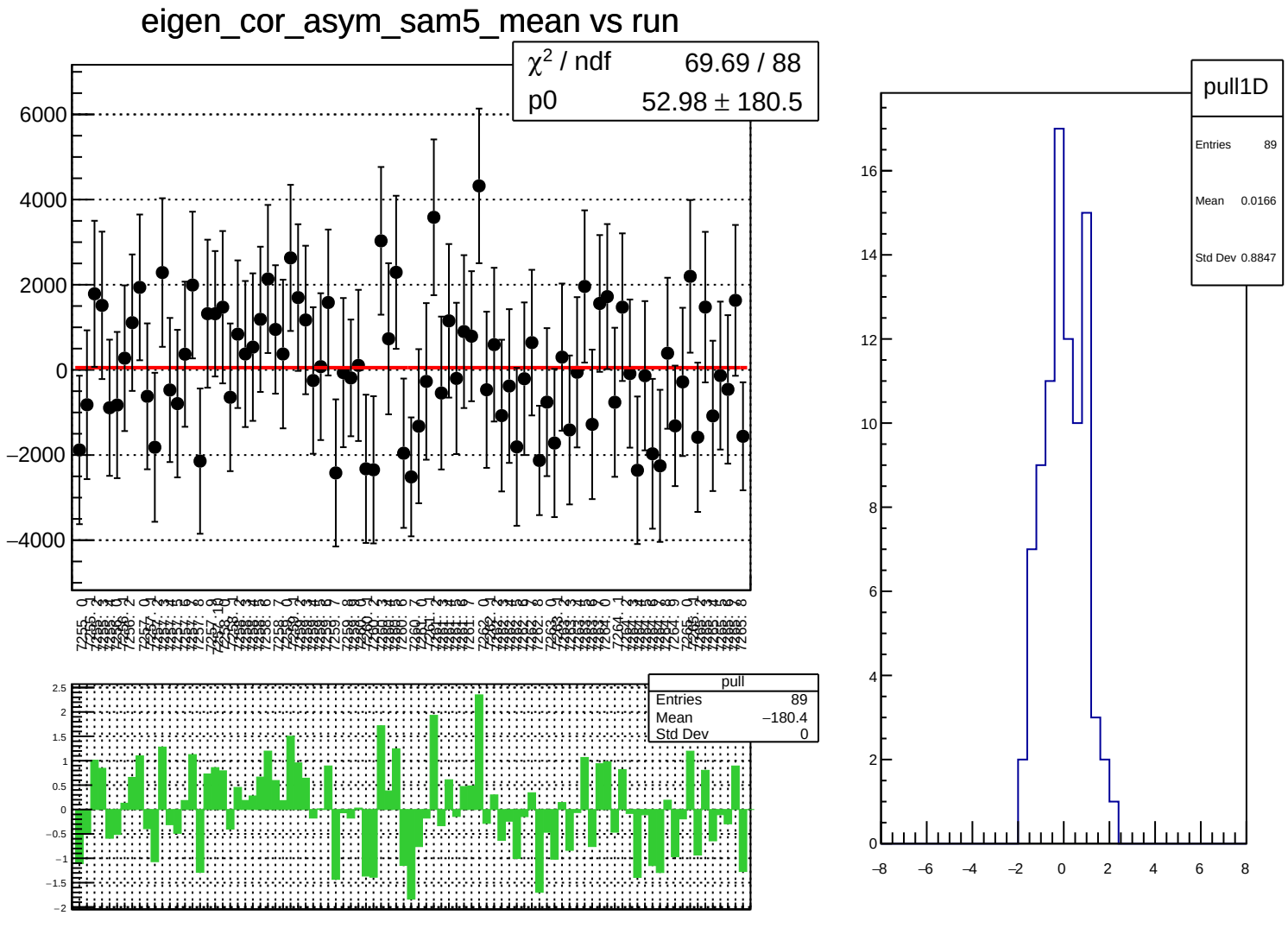

pull1D
Entries 89
Mean 0.0166
Std Dev 0.8847
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

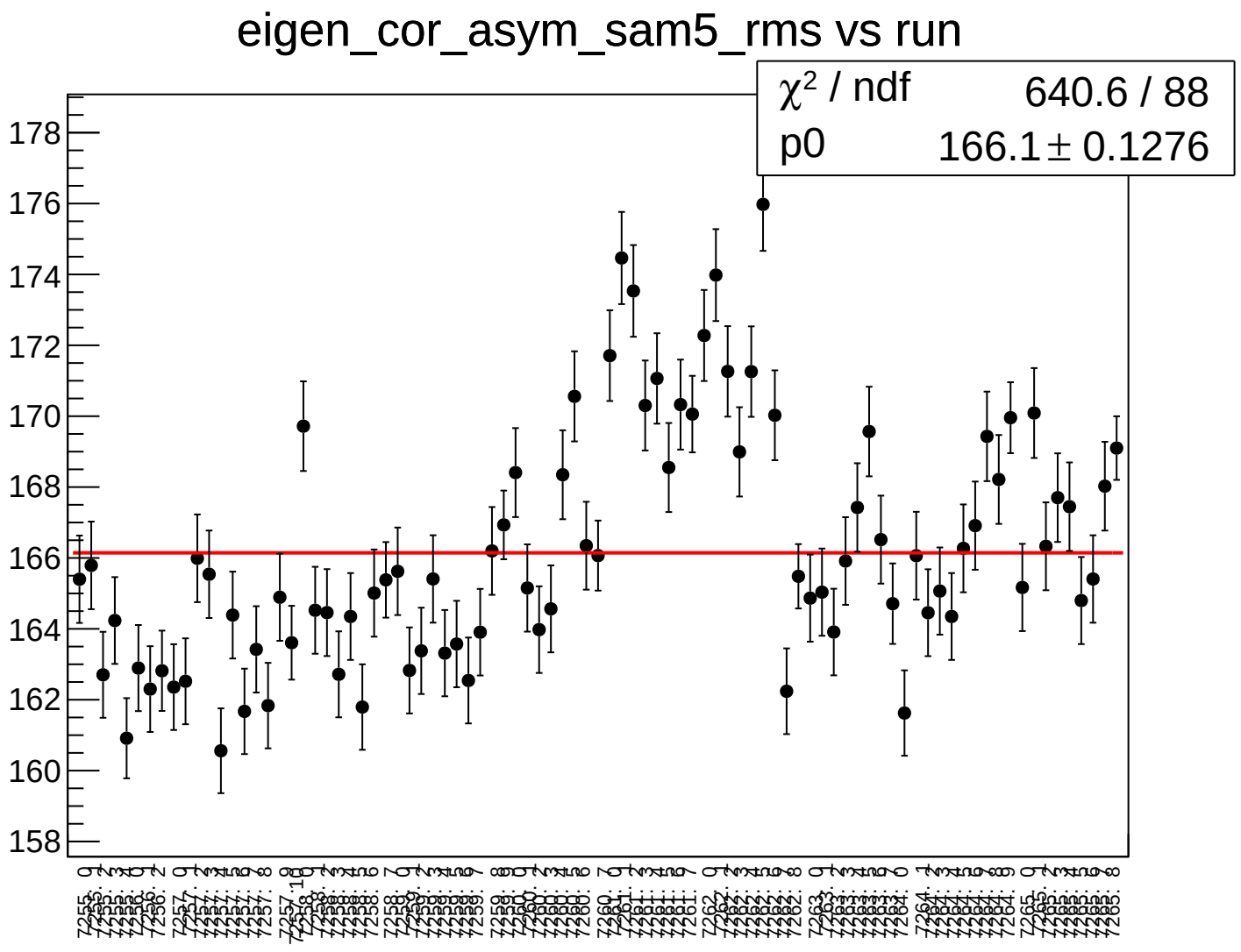

cor_asym_sam5_rms vs run
χ² / ndf 640.6 / 88
p0 166.1 ± 0.1276
178
176
174
172
170
168
166
164
162
160
158

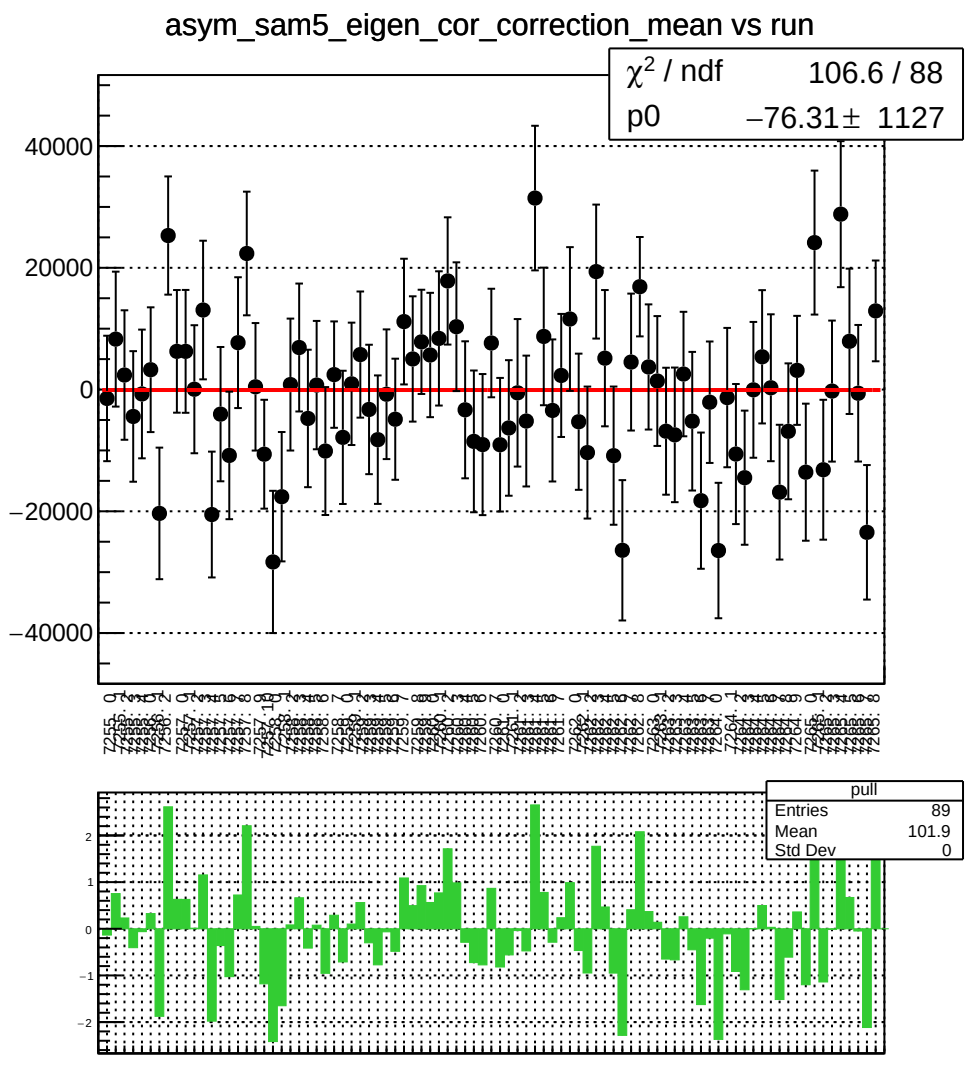

asym_sam5_cor_correction_mean vs run
χ² / ndf 106.6 / 88
p0 −76.31± 1127
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 101.9
Std Dev 0
2
1
0
−1
−2

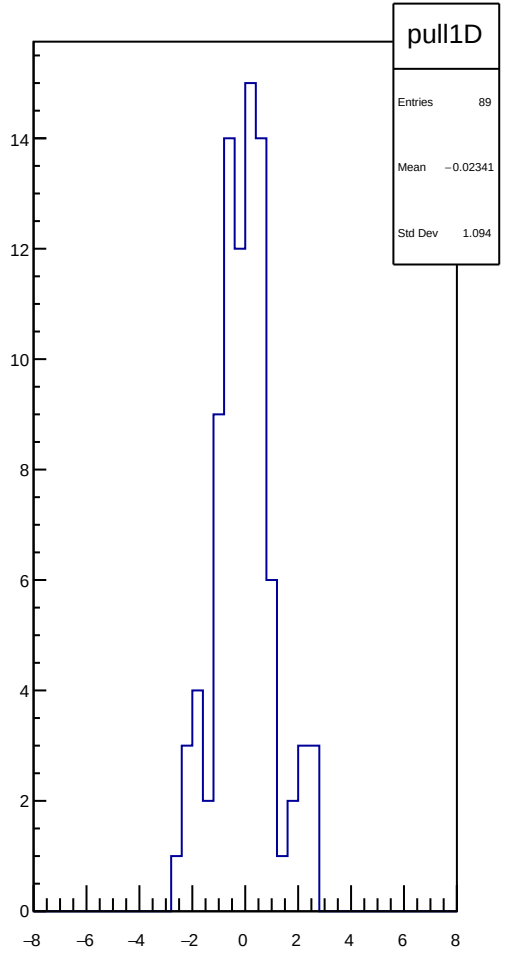

pull1D
Entries 89
Mean −0.02341
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

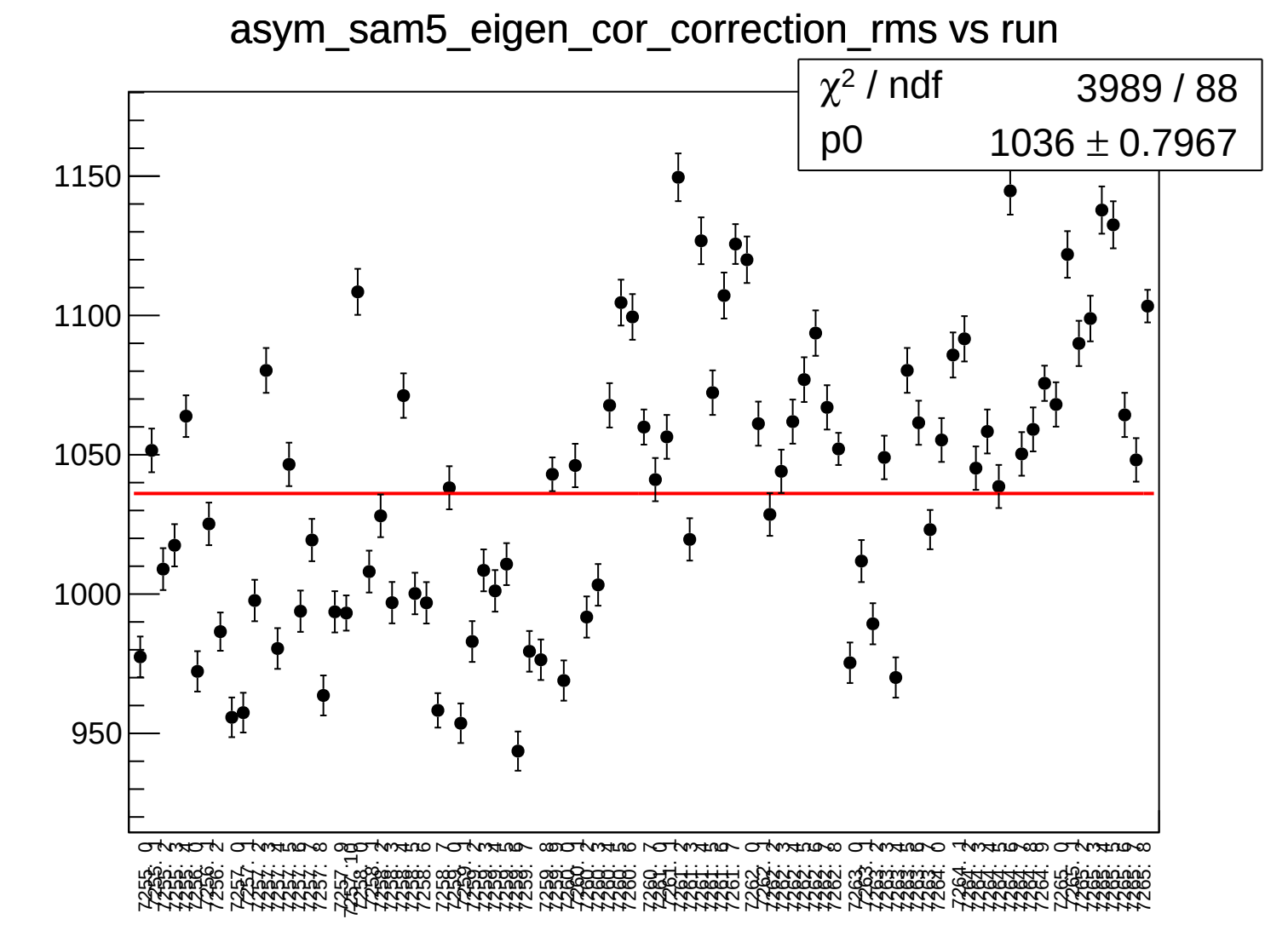

asym_sam5_cor_correction_rms vs run
χ² / ndf 3989 / 88
p0 1036 ± 0.7967
1150
1100
1050
1000
950

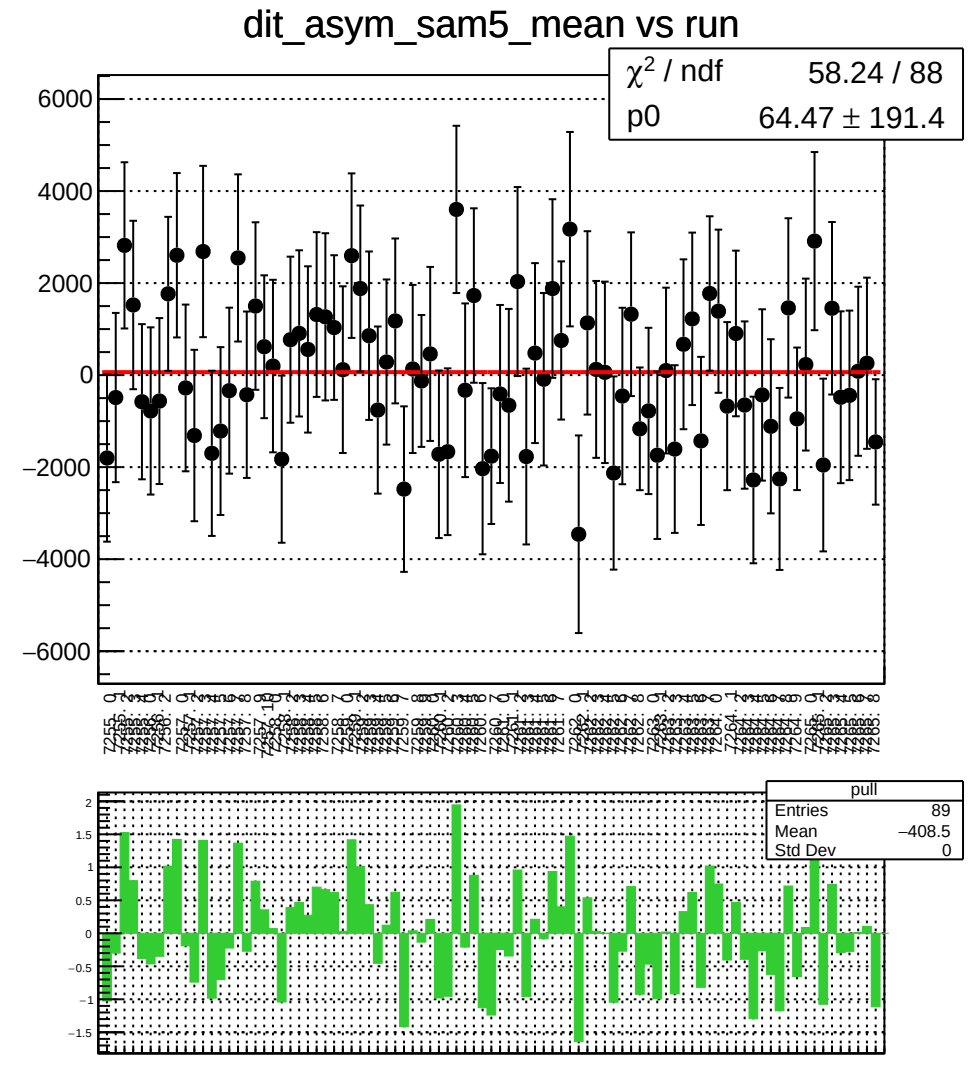

eigen_cor_asym_sam5_mean vs run
χ² / ndf 69.69 / 88
p0 52.98 ± 180.5
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −180.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.0166
Std Dev 0.8847
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

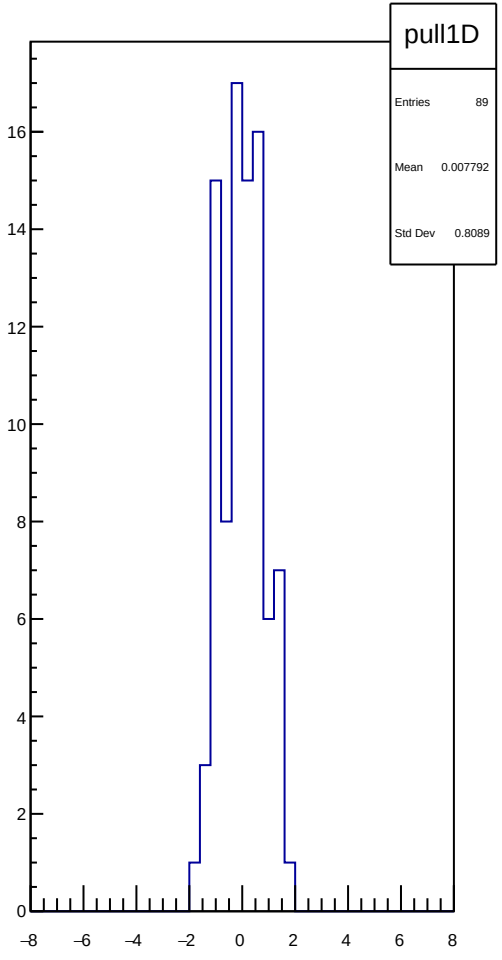

eigen_cor_asym_sam5_rms vs run
χ² / ndf 640.6 / 88
p0 166.1 ± 0.1276
178
176
174
172
170
168
166
164
162
160
158

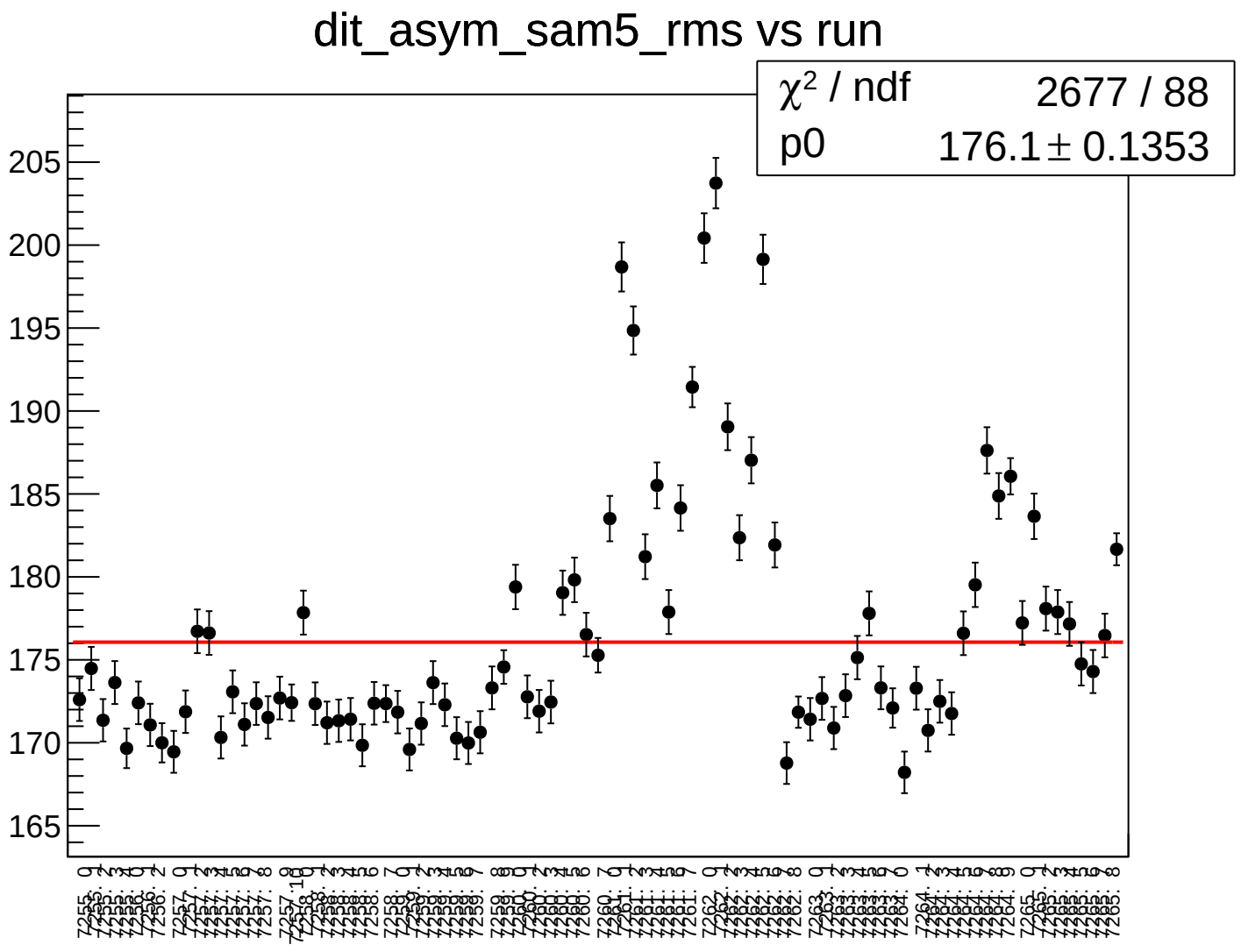

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 106.6 / 88
p0 −76.31± 1127
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 101.9
Std Dev 0
2
1
0
−1
−2

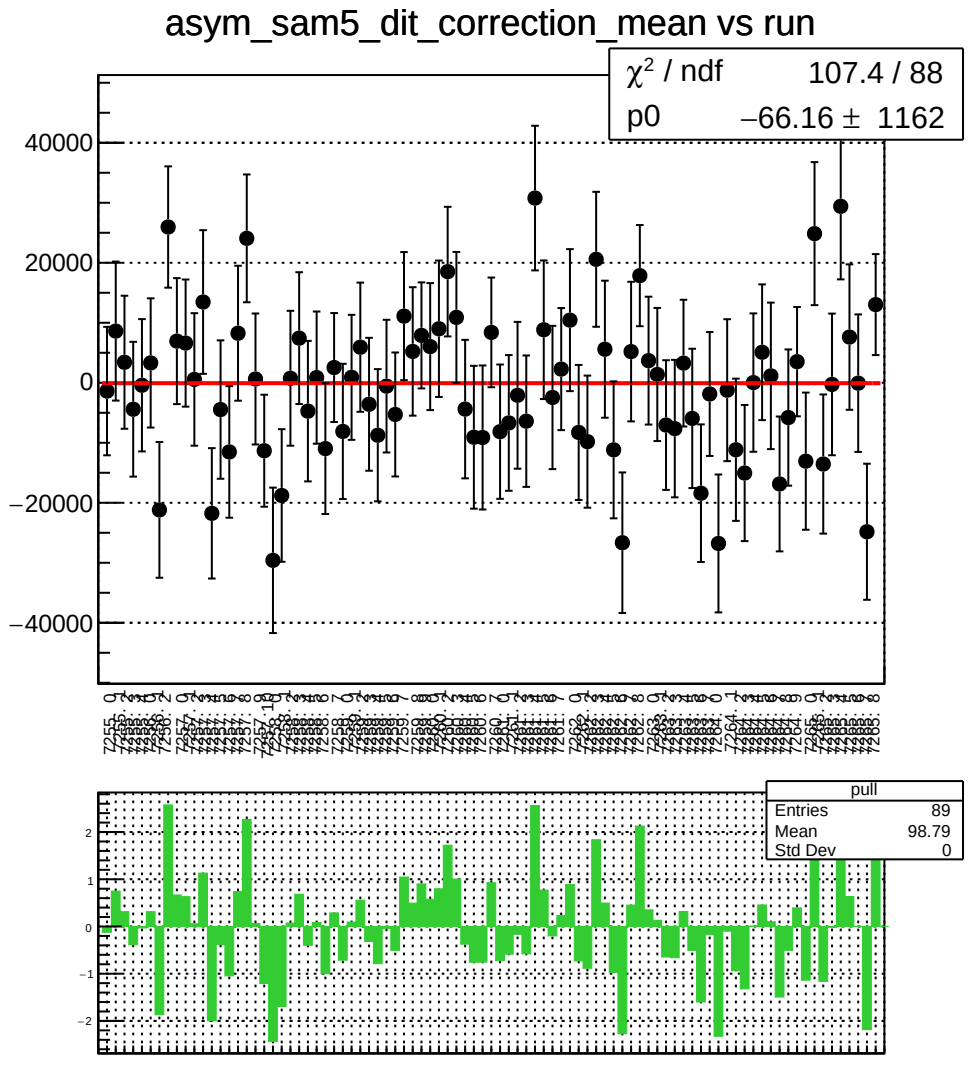

pull1D
Entries 89
Mean −0.02341
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

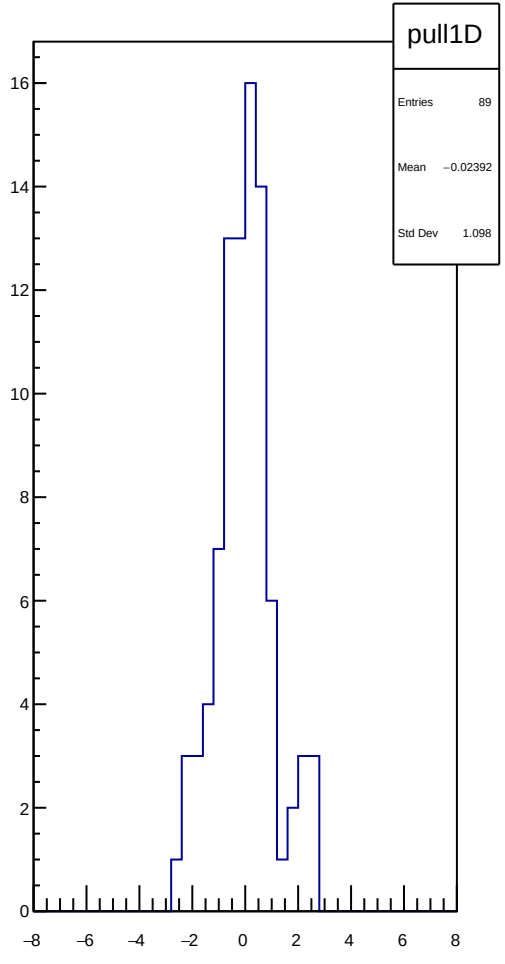

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 3989 / 88
p0 1036 ± 0.7967
1150
1100
1050
1000
950

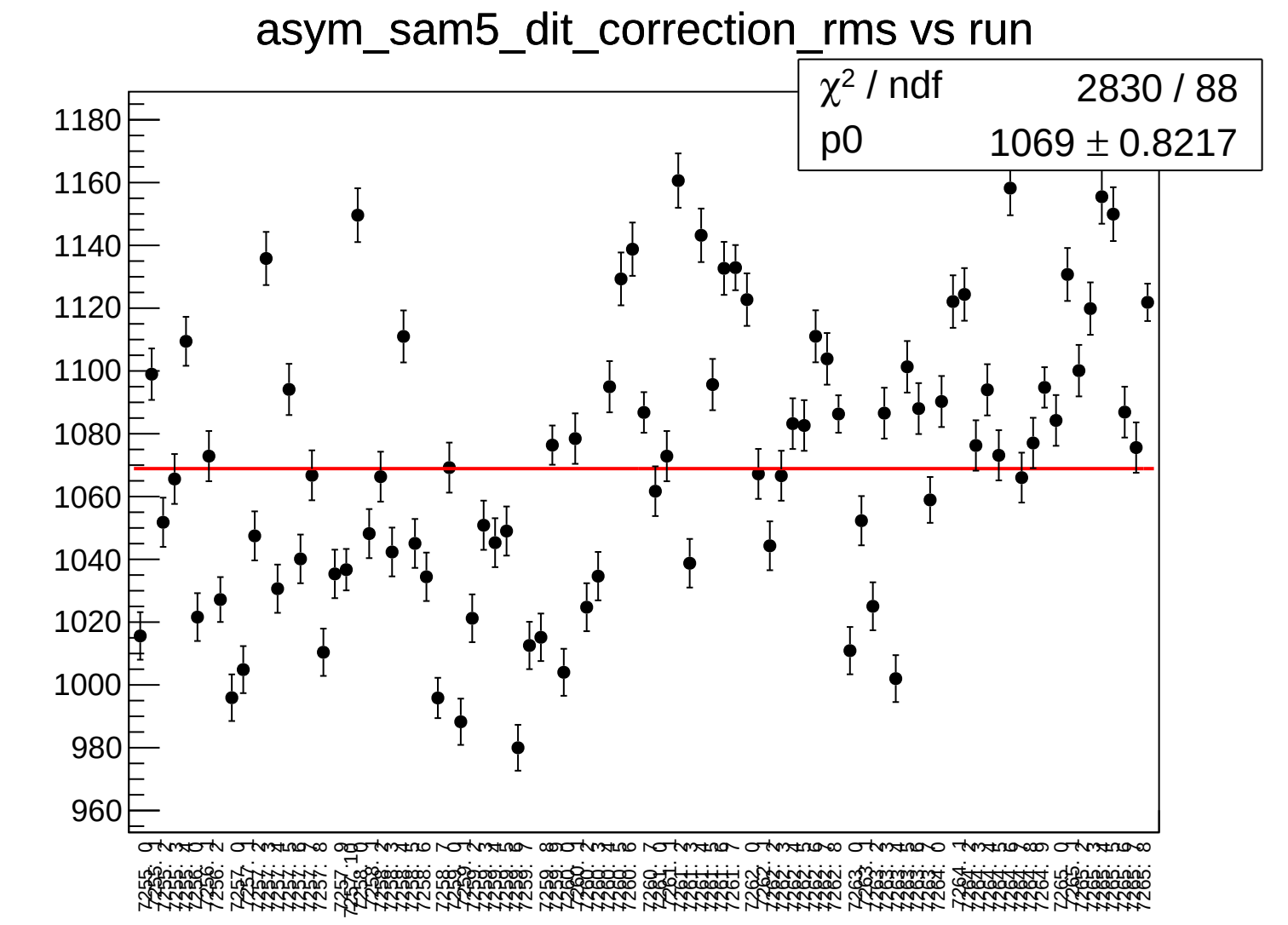

dit_asym_sam5_mean vs run
χ^2 / ndf 58.24 / 88
p0 64.47 ± 191.4
pull
Entries 89
Mean −408.5
Std Dev 0

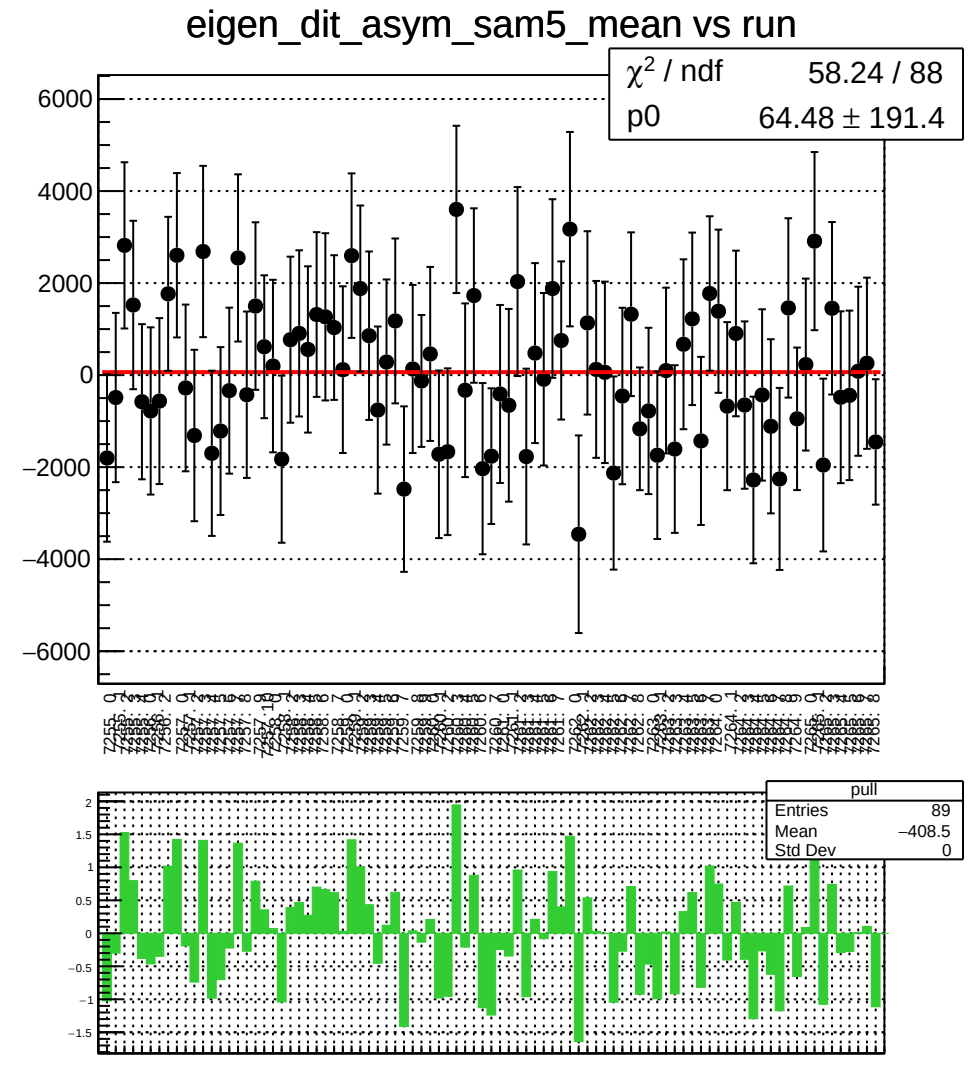

pull1D
Entries 89
Mean 0.007792
Std Dev 0.8089

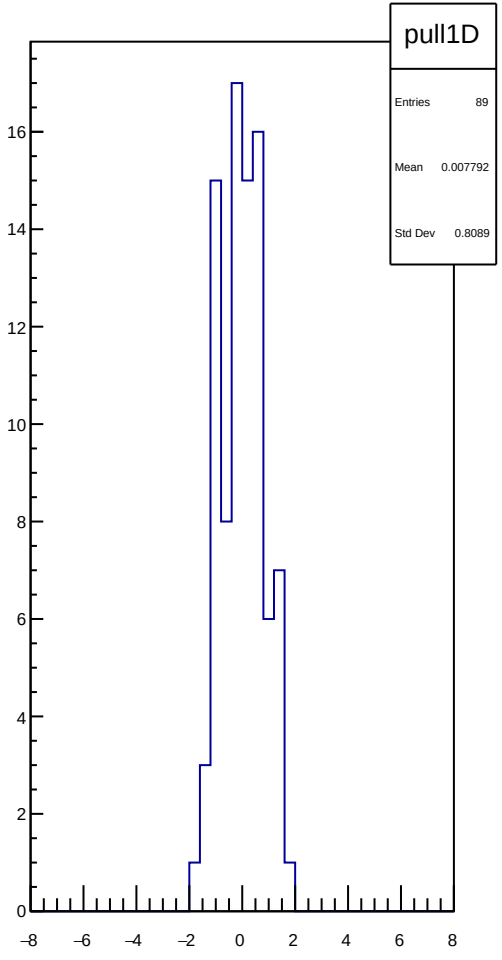

dit_asym_sam5_rms vs run
χ² / ndf 2677 / 88
p0 176.1 ± 0.1353
205
200
195
190
185
180
175
170
165

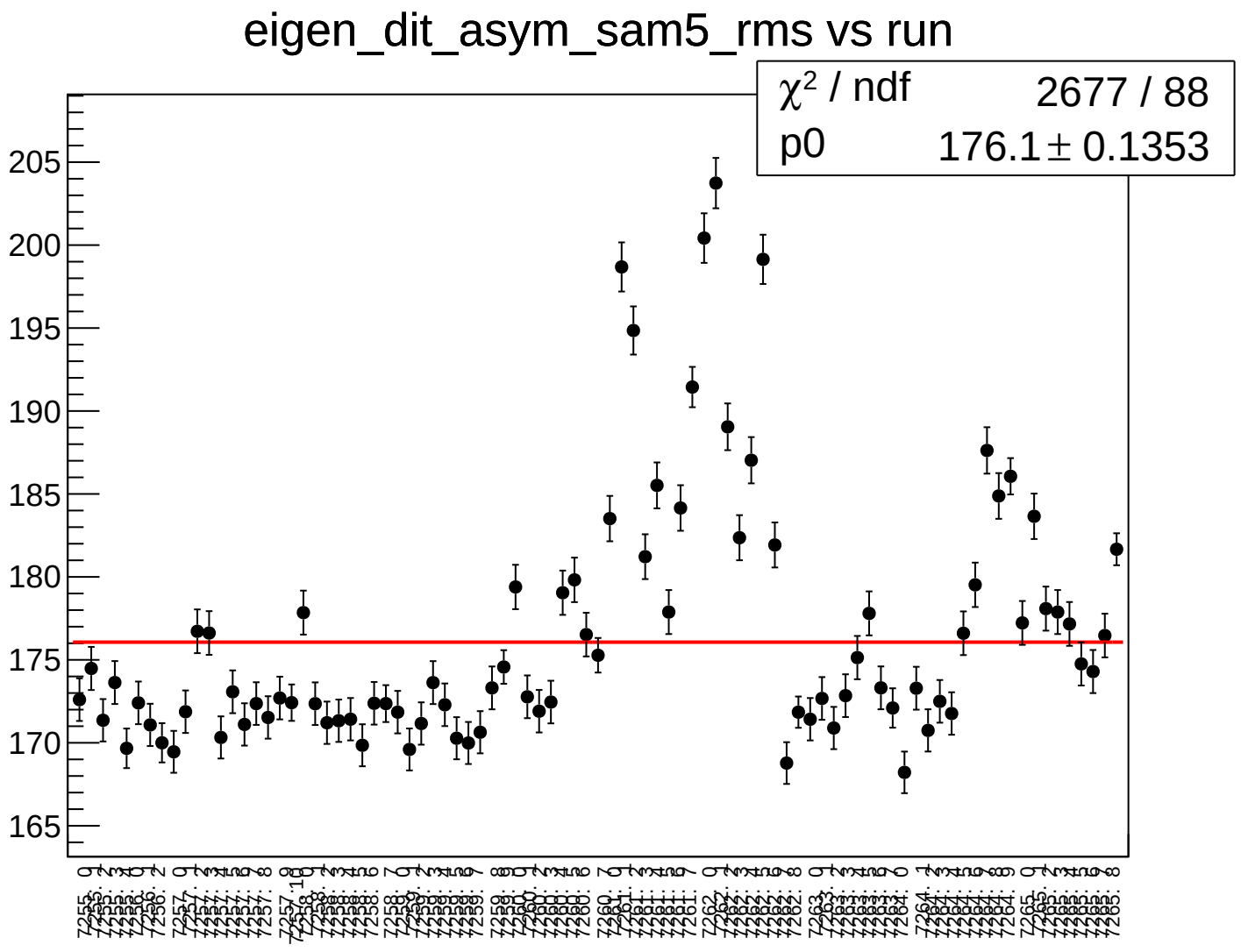

asym_sam5_dit_correction_mean vs run
χ² / ndf 107.4 / 88
p0 −66.16 ± 1162
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 98.79
Std Dev 0
2
1
0
−1
−2

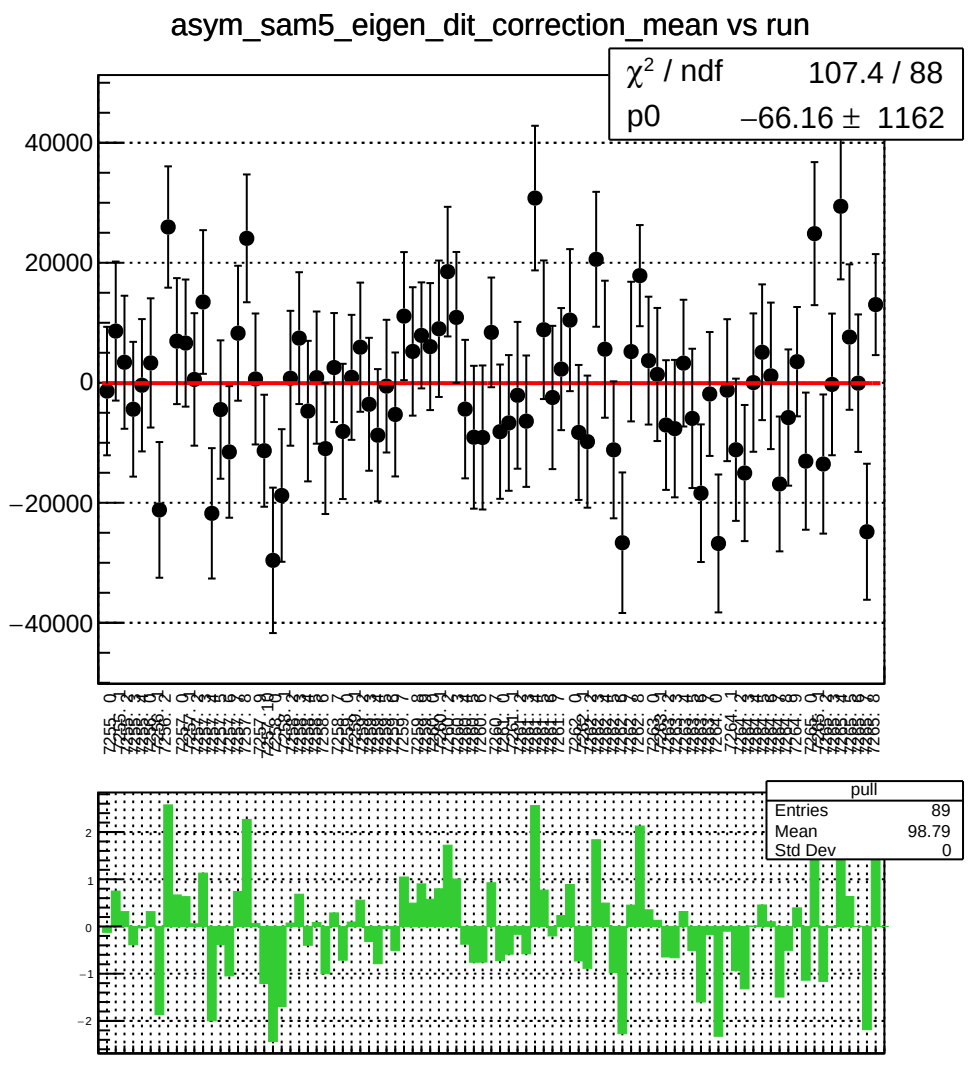

pull1D
Entries 89
Mean −0.02392
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

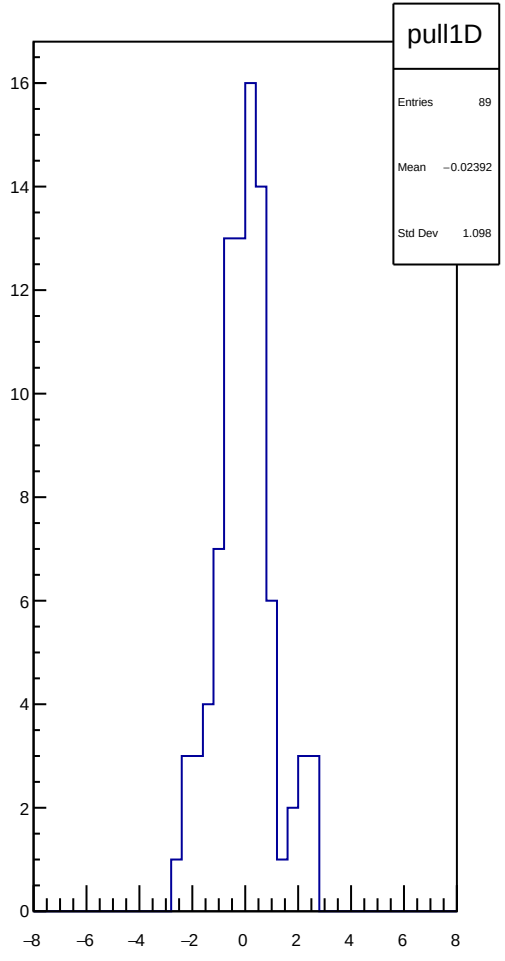

asym_sam5_dit_correction_rms vs run
χ² / ndf 2830 / 88
p0 1069 ± 0.8217
1180
1160
1140
1120
1100
1080
1060
1040
1020
1000
980
960

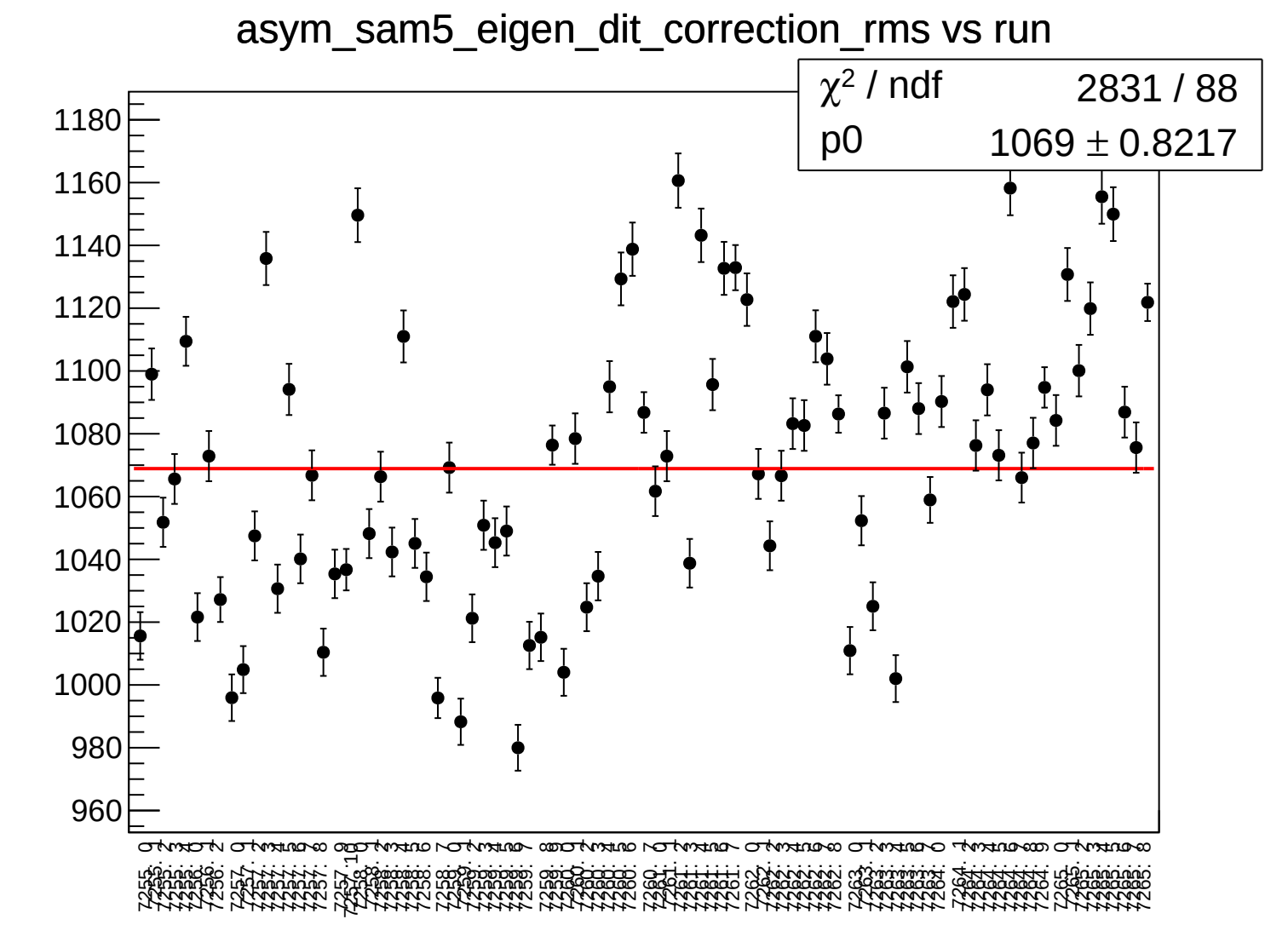

eigen_dit_asym_sam5_mean vs run
χ² / ndf 58.24 / 88
p0 64.48 ± 191.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −408.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

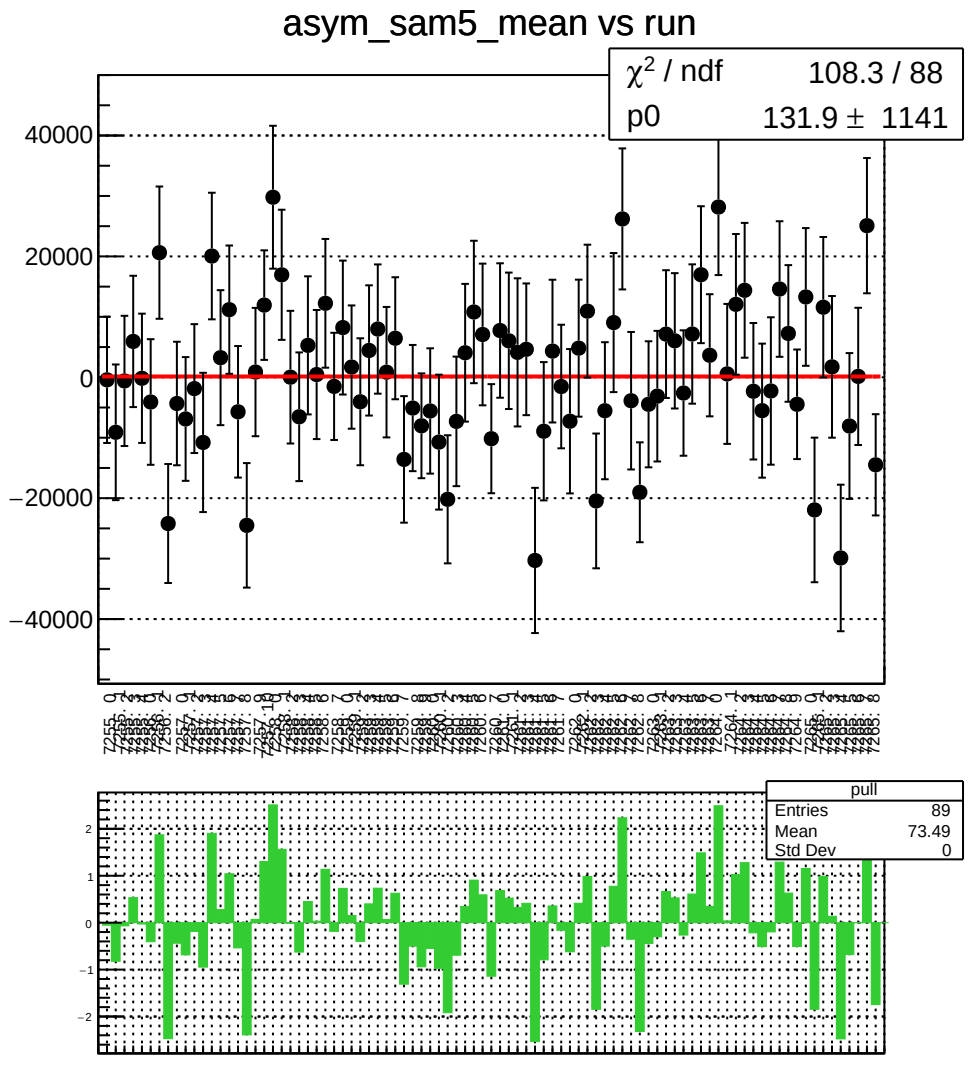

pull1D
Entries 89
Mean 0.007792
Std Dev 0.8089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

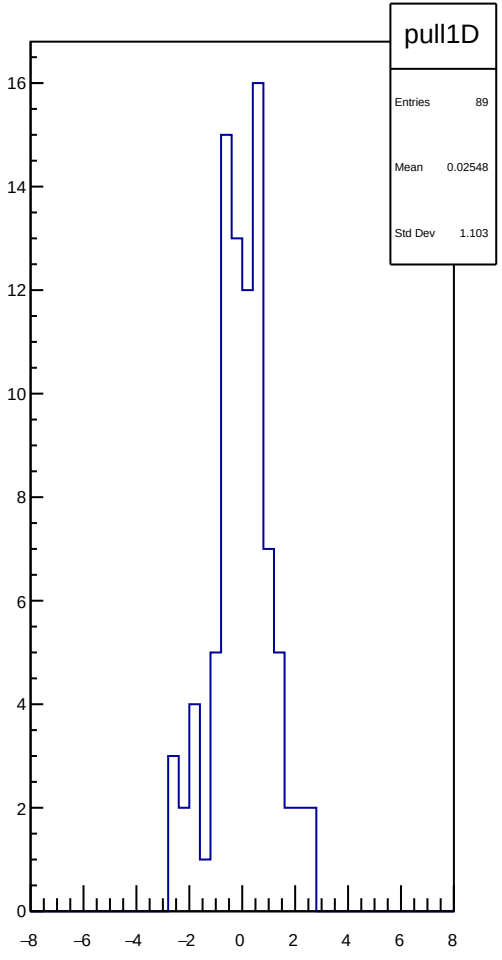

eigen_dit_asym_sam5_rms vs run
χ² / ndf 2677 / 88
p0 176.1 ± 0.1353
205
200
195
190
185
180
175
170
165

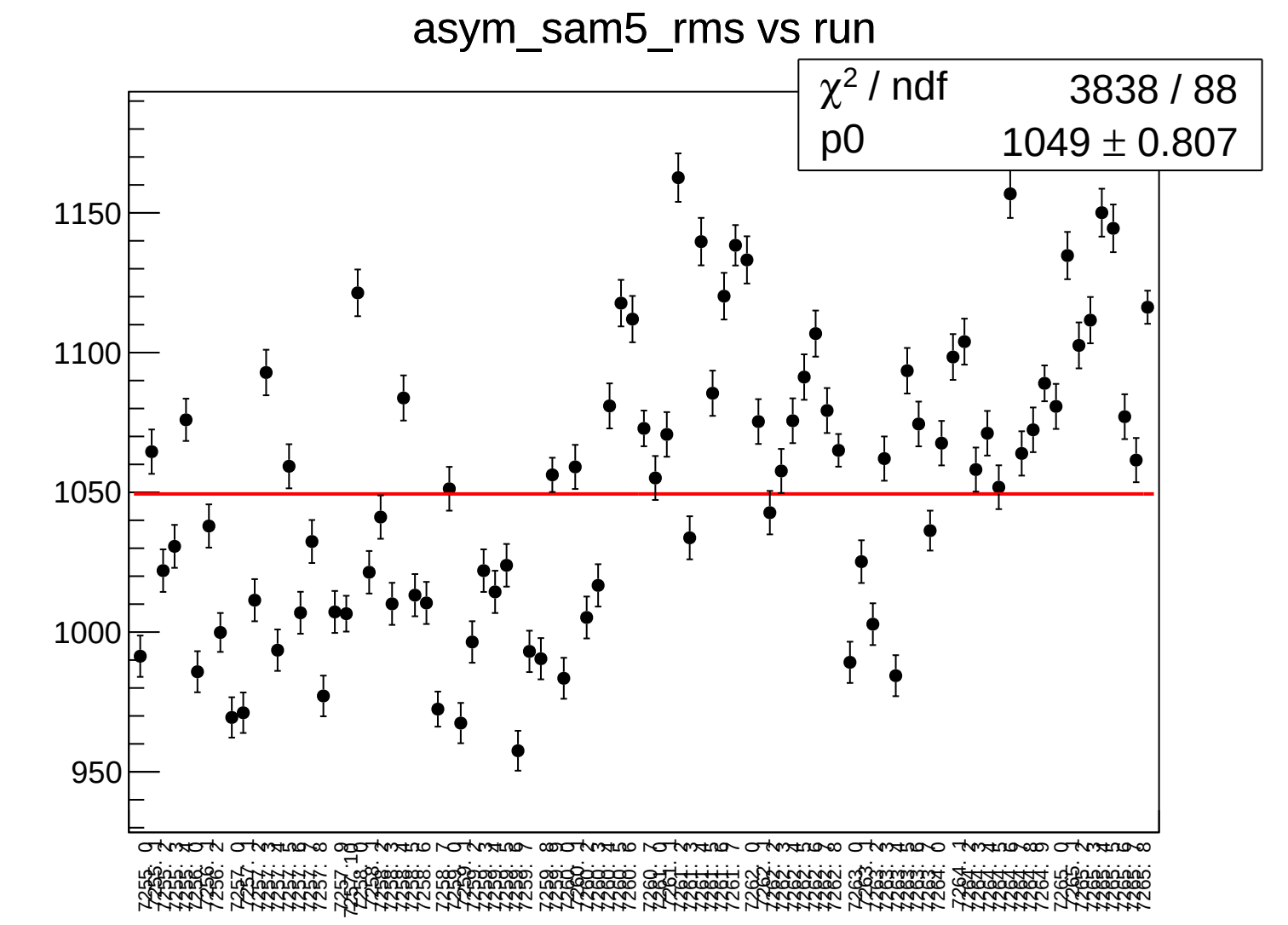

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 107.4 / 88
p0 −66.16 ± 1162
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 98.79
Std Dev 0
2
1
0
−1
−2

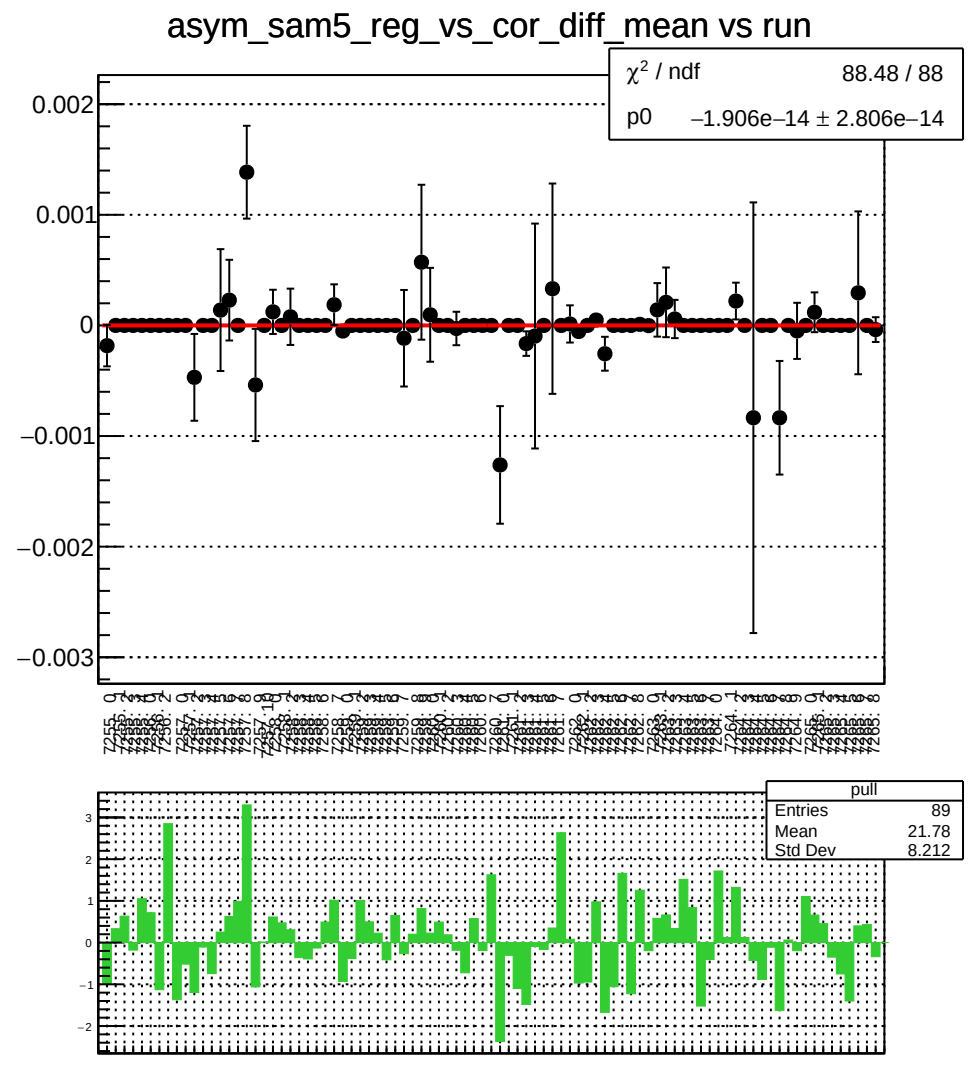

pull1D
Entries 89
Mean −0.02392
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

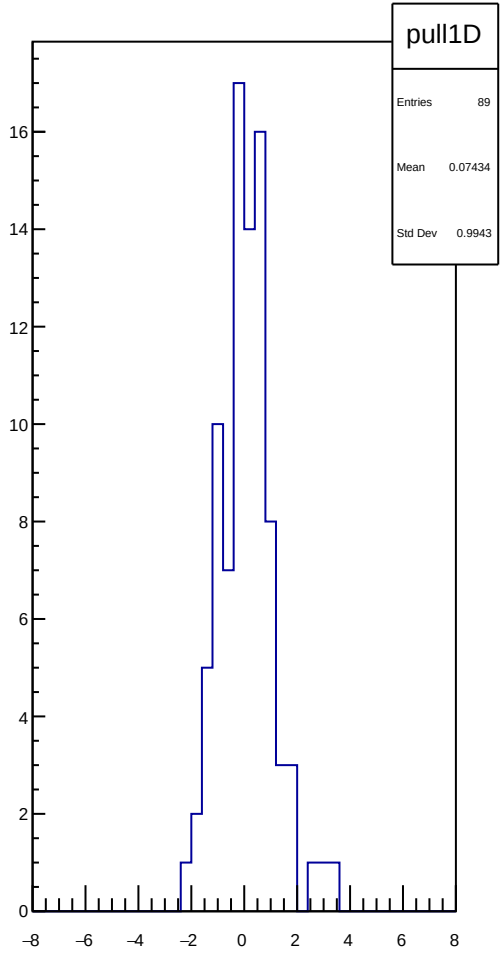

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 2831 / 88
p0 1069 ± 0.8217
1180
1160
1140
1120
1100
1080
1060
1040
1020
1000
980
960

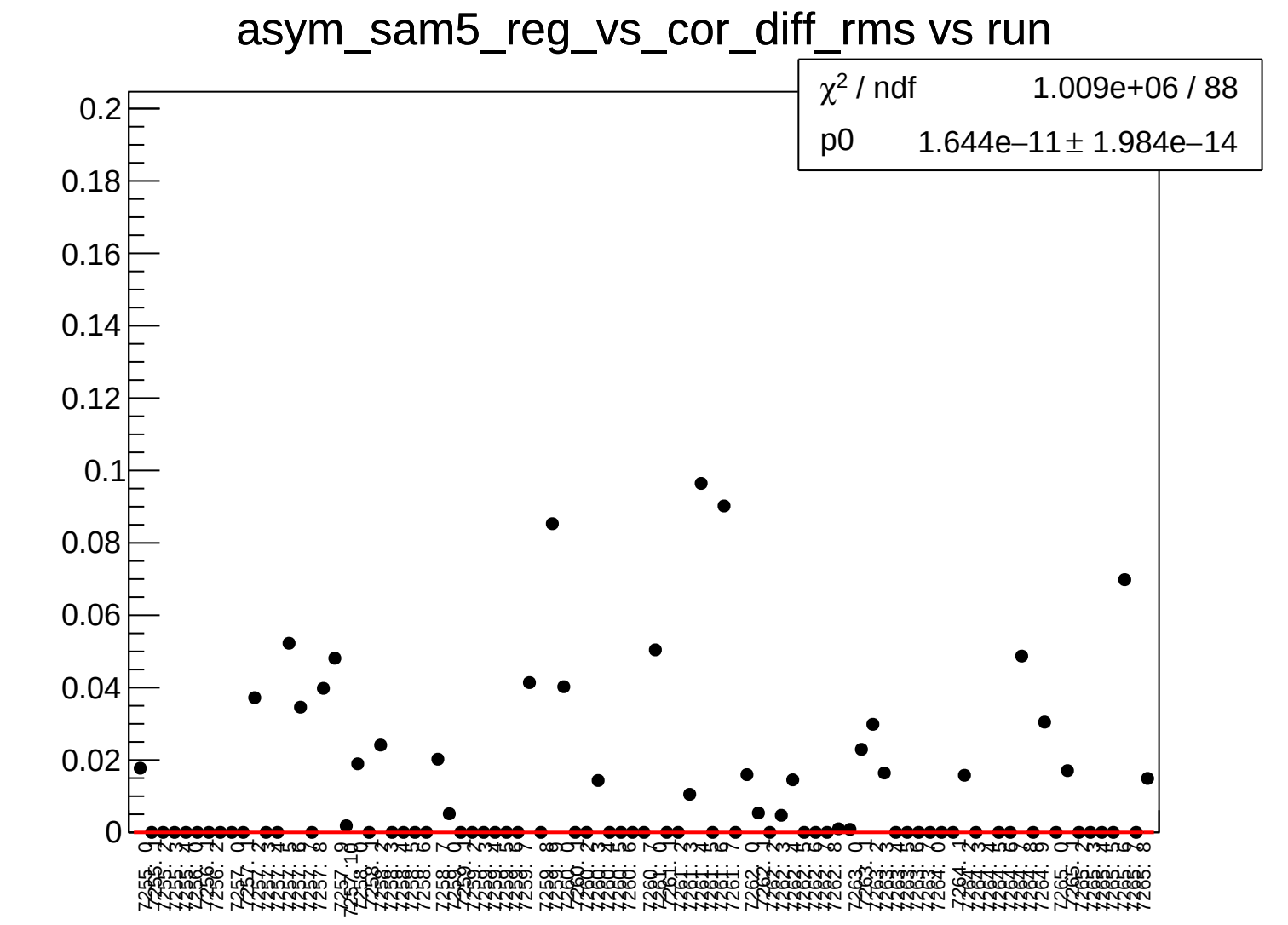

asym_sam5_mean vs run
χ² / ndf 108.3 / 88
p0 131.9 ± 1141
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 73.49
Std Dev 0
2
1
0
−1
−2

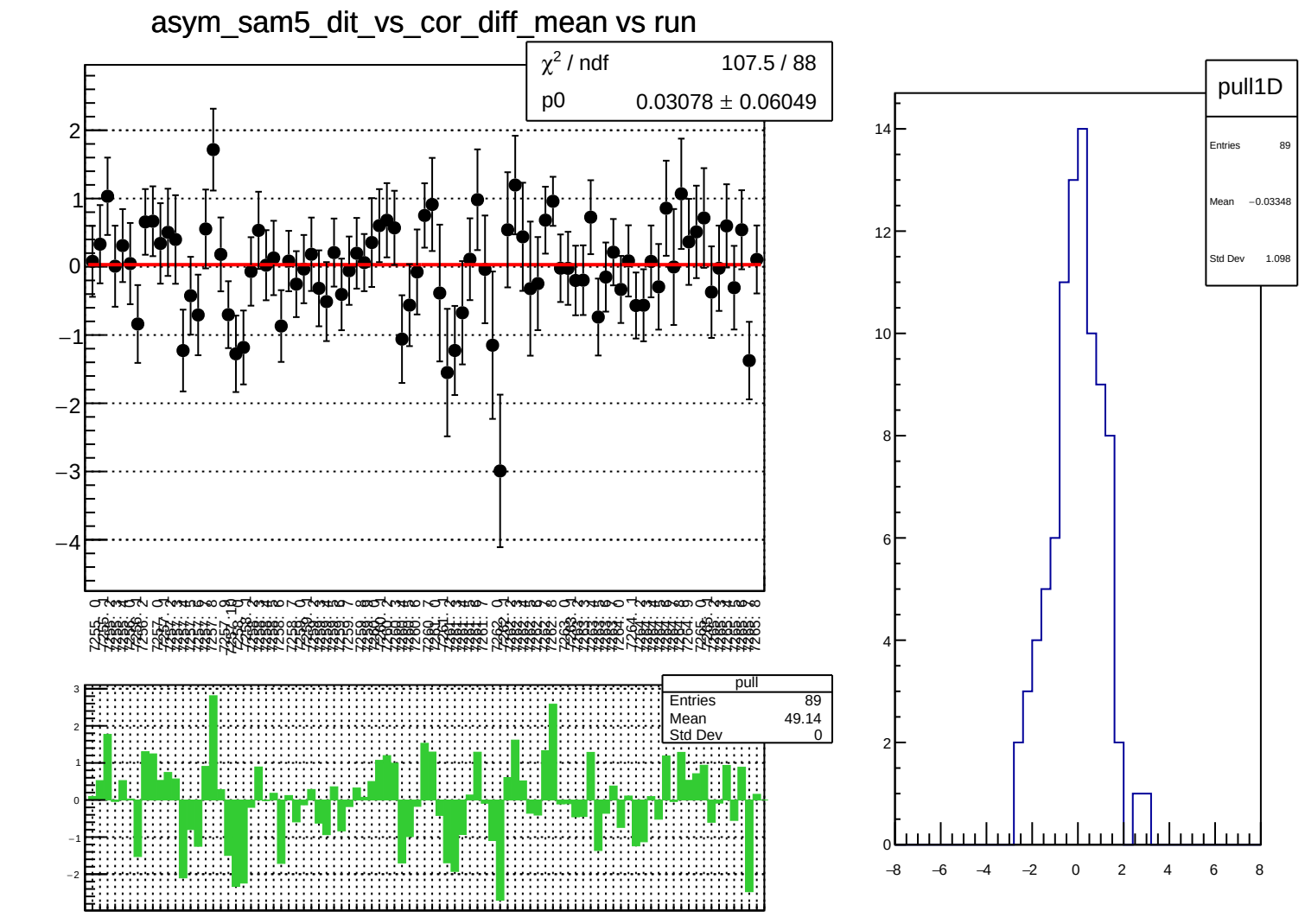

pull1D
Entries 89
Mean 0.02548
Std Dev 1.103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

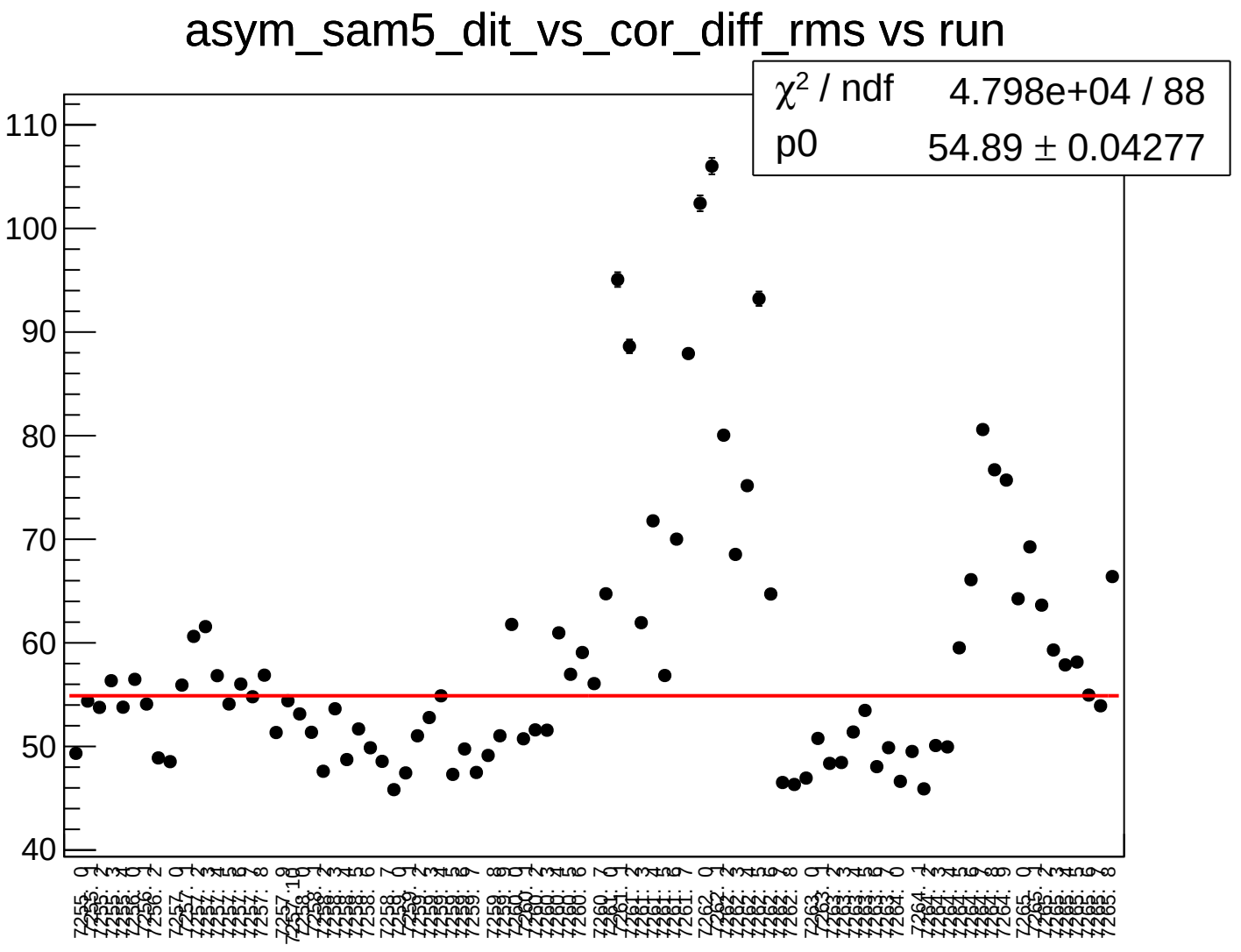

asym_sam5_rms vs run
χ² / ndf 3838 / 88
p0 1049 ± 0.807
1150
1100
1050
1000
950

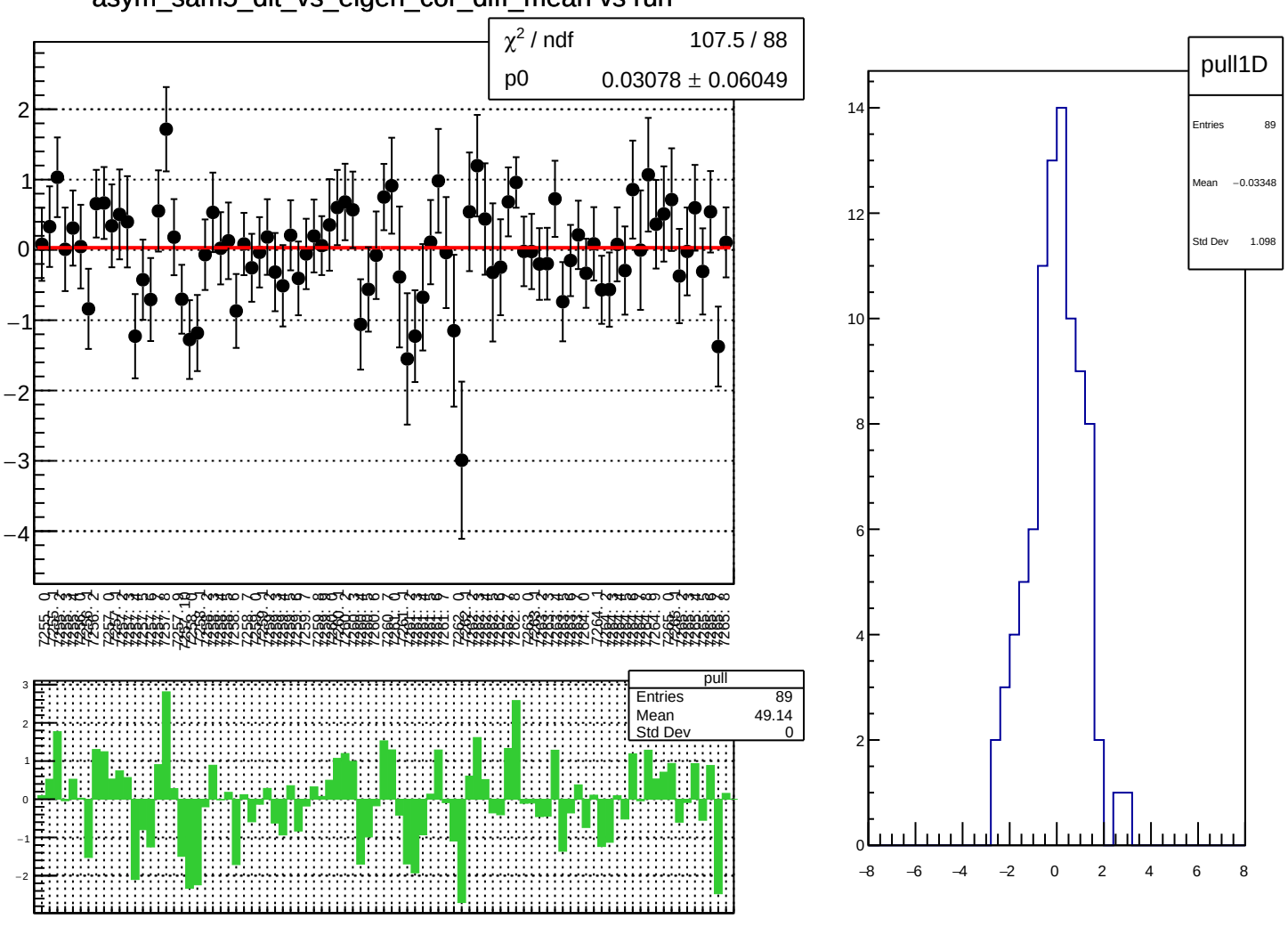

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 88.48 / 88
p0 −1.906e−14 ± 2.806e−14
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 89
Mean 21.78
Std Dev 8.212
3
2
1
0
−1
−2

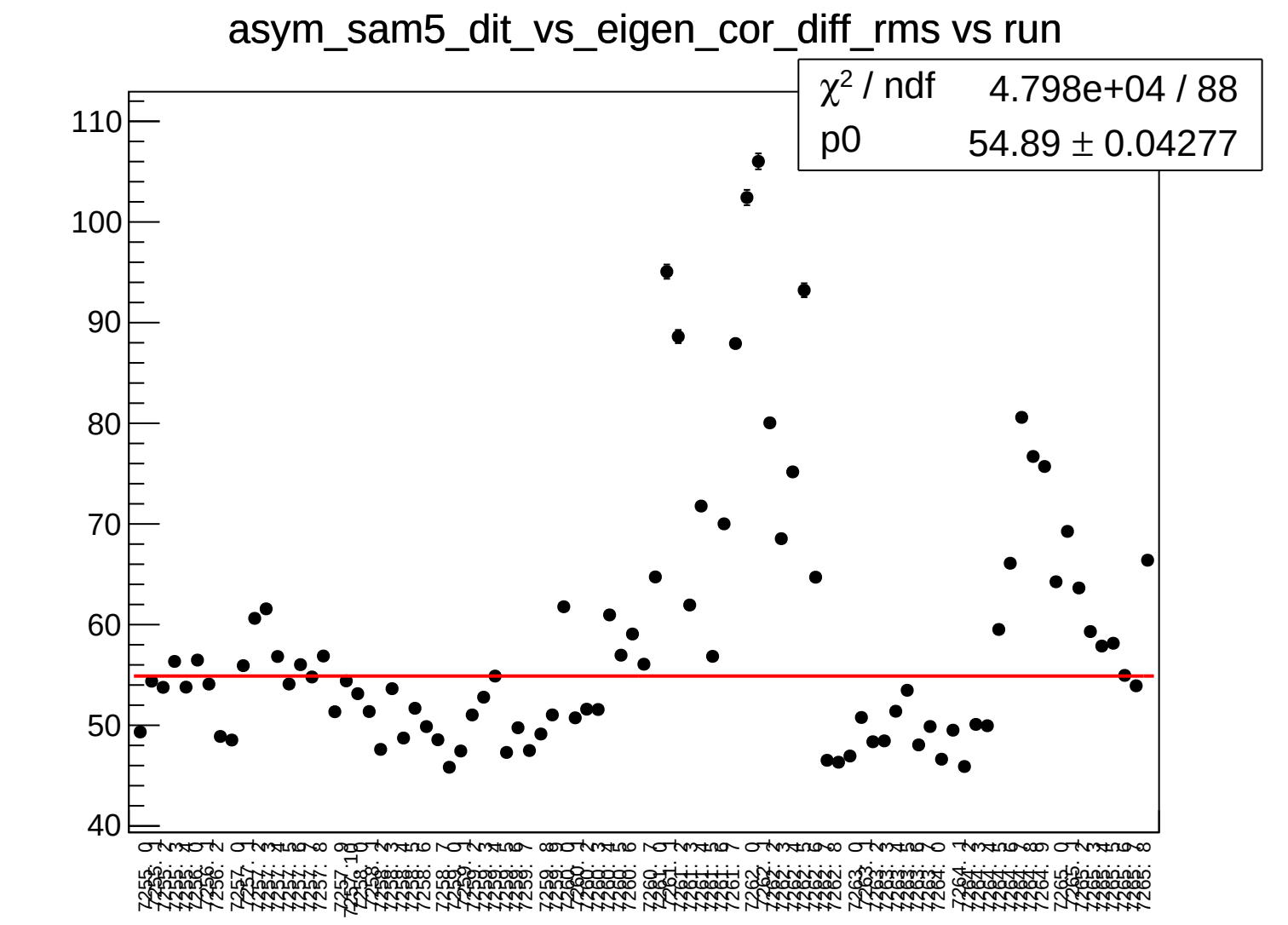

pull1D
Entries 89
Mean 0.07434
Std Dev 0.9943
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

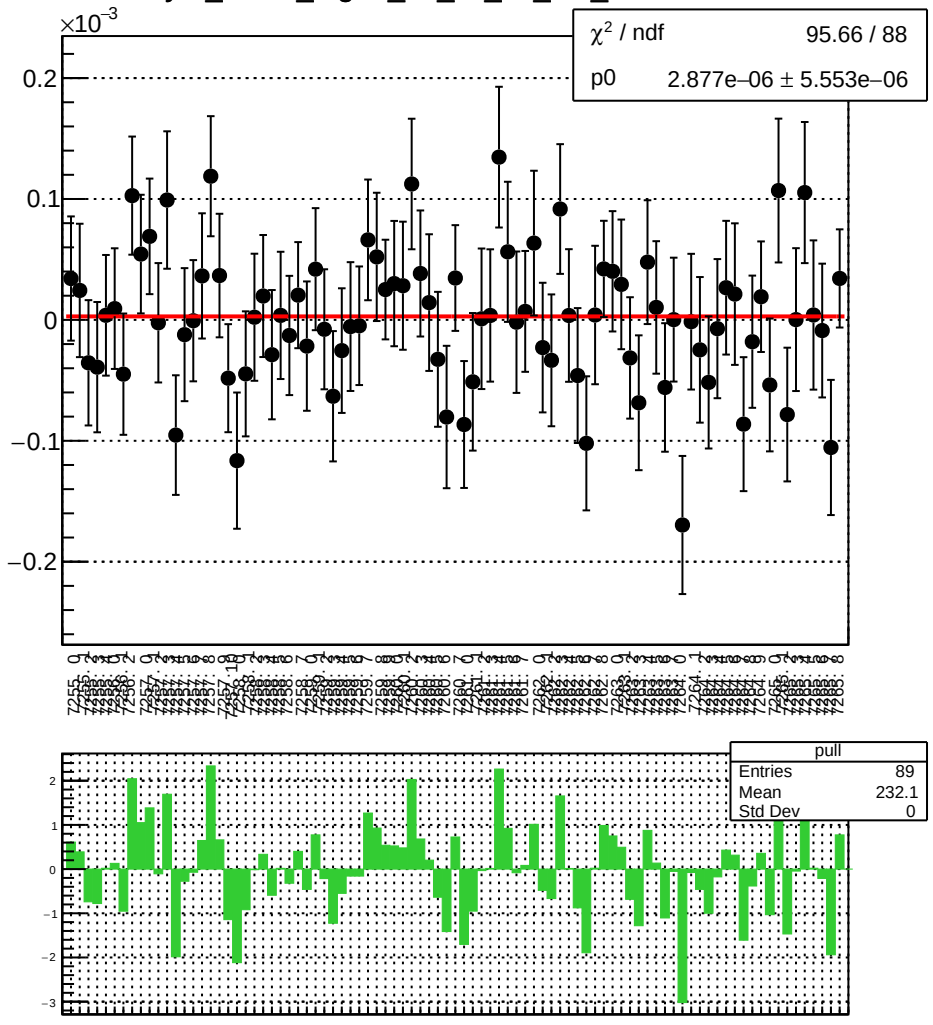

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.009e+06 / 88
p0 1.644e−11 ± 1.984e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

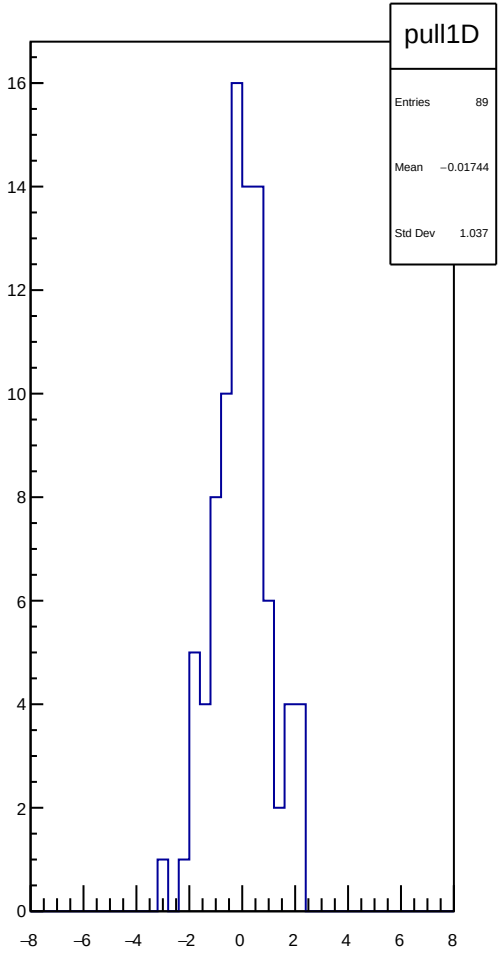

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 107.5 / 88
p0 0.03078 ± 0.06049
pull
Entries 89
Mean 49.14
Std Dev 0
pull1D
Entries 89
Mean −0.03348
Std Dev 1.098

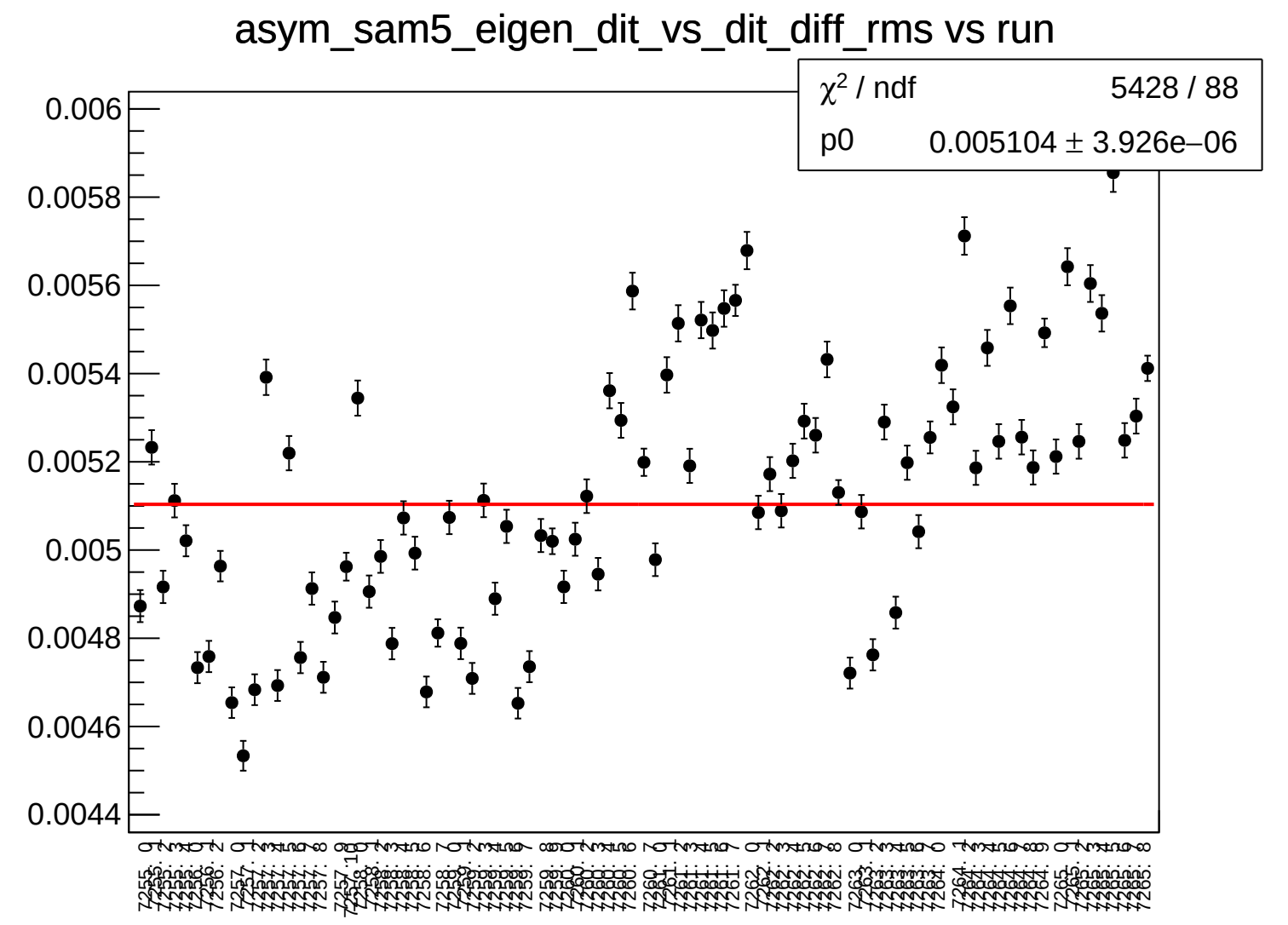

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 4.798e+04 / 88
p0 54.89 ± 0.04277
110
100
90
80
70
60
50
40

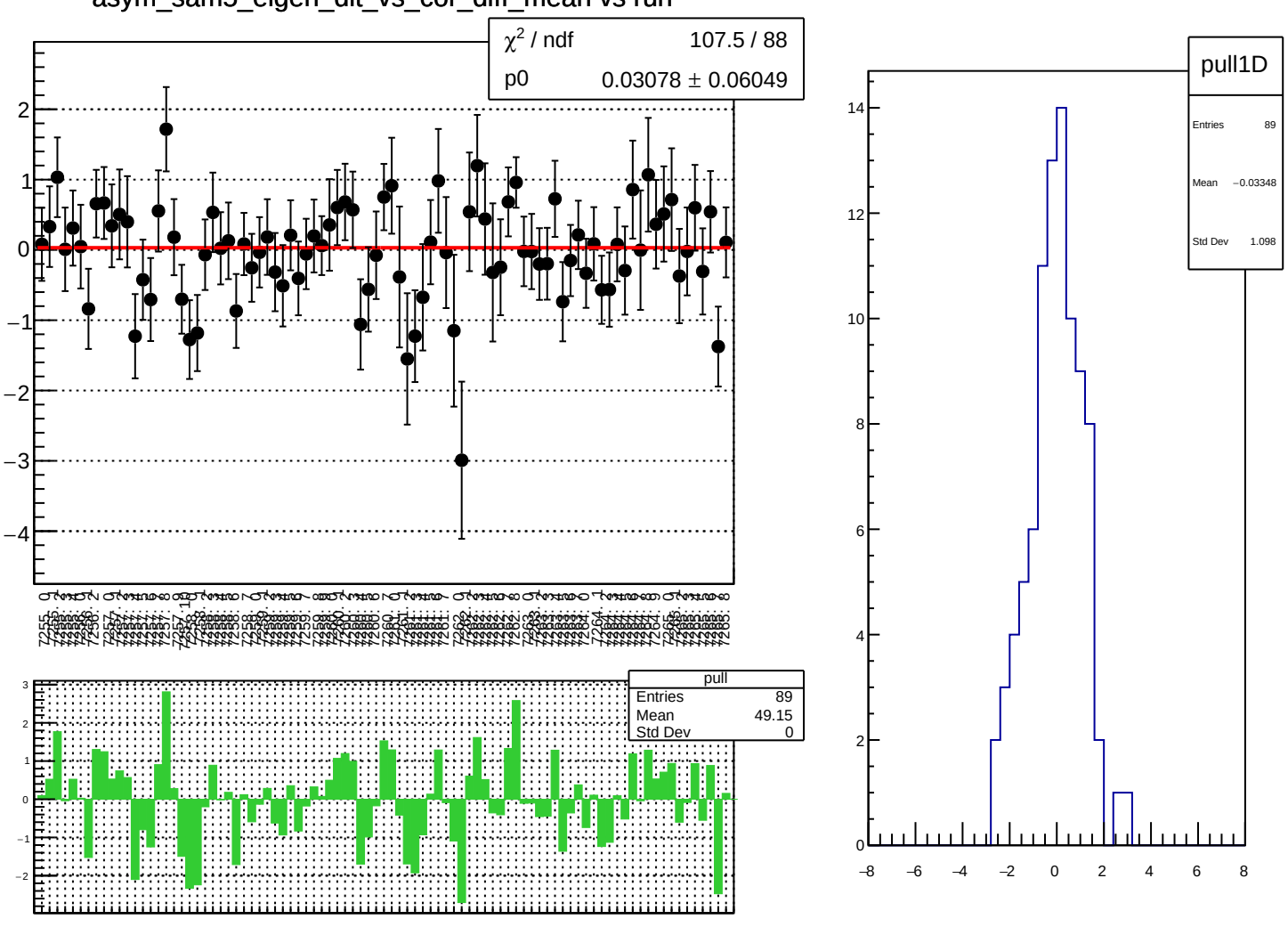

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.5 / 88
p0 0.03078 ± 0.06049
pull
Entries 89
Mean 49.14
Std Dev 0
pull1D
Entries 89
Mean −0.03348
Std Dev 1.098

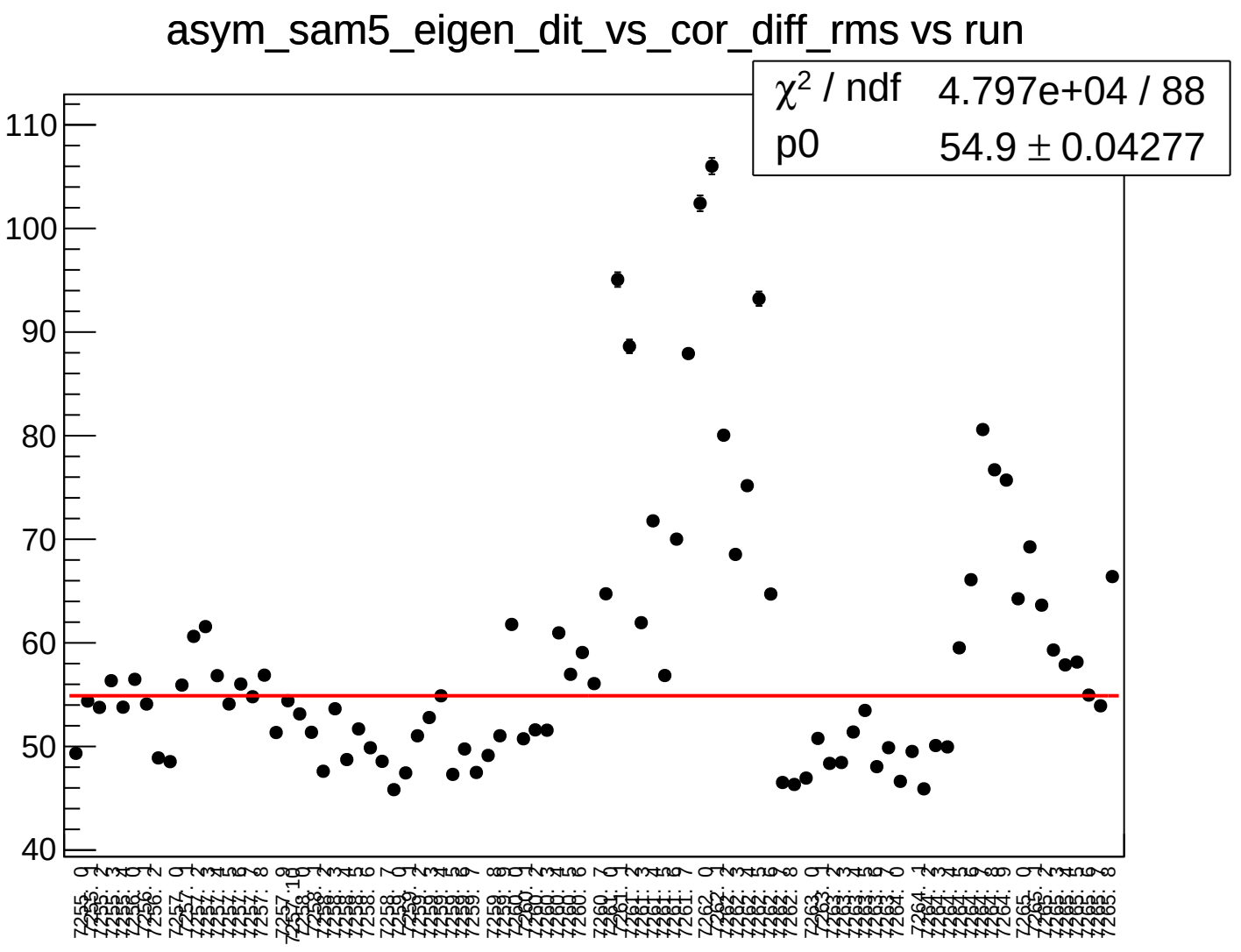

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.798e+04 / 88
p0 54.89 ± 0.04277
110
100
90
80
70
60
50
40

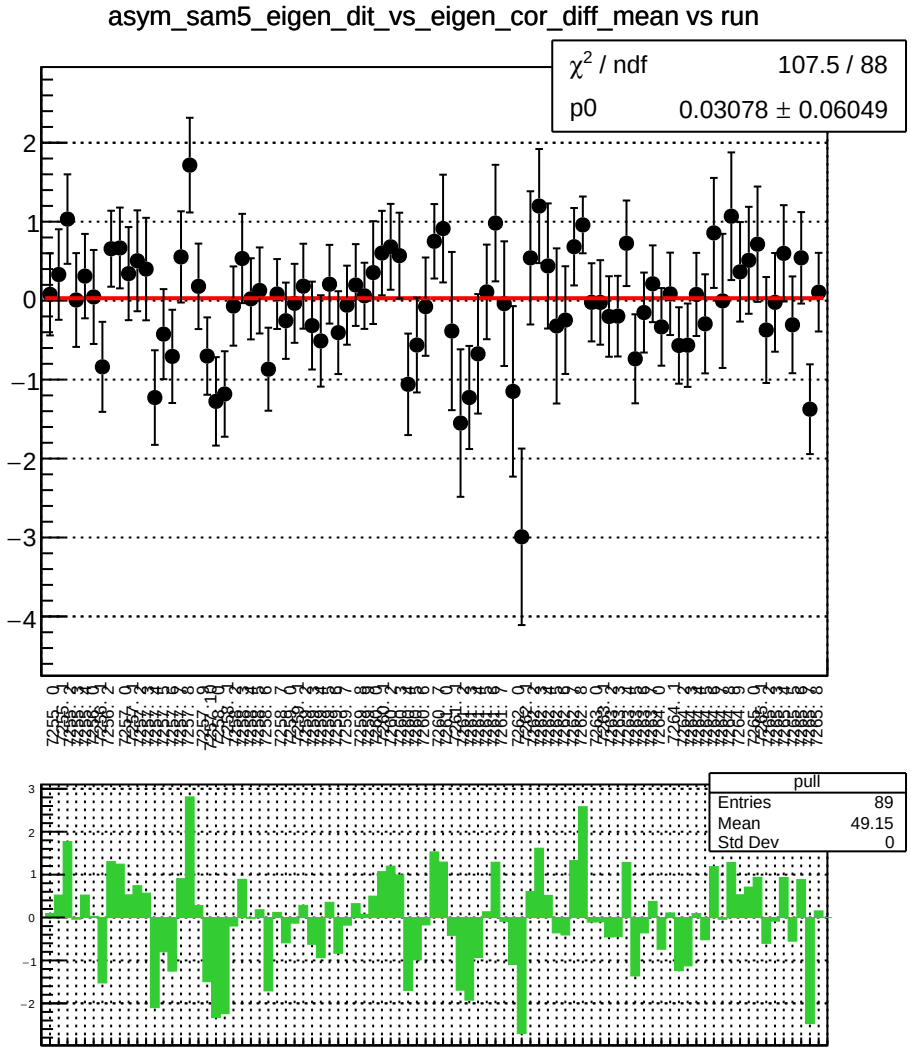

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.66 / 88
p0 2.877e−06 ± 5.553e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 89
Mean 232.1
Std Dev 0
2
1
0
−1
−2
−3

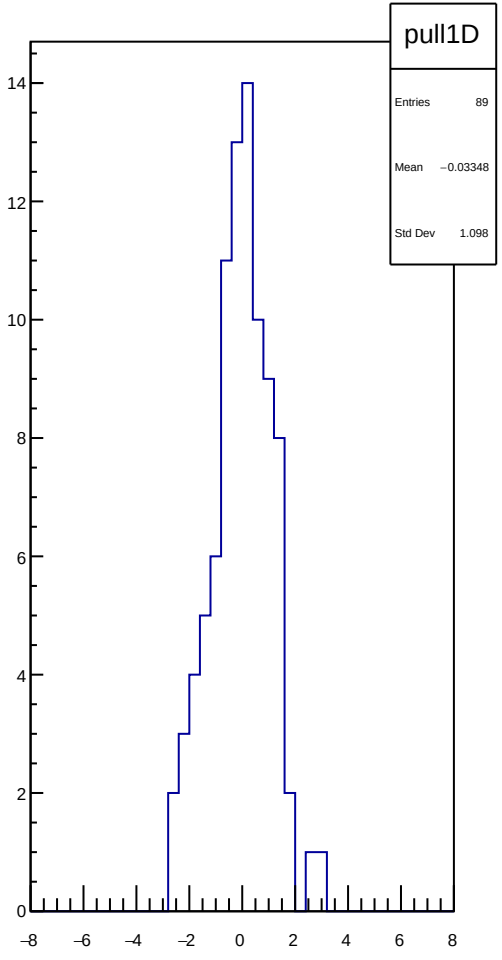

pull1D
Entries 89
Mean −0.01744
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

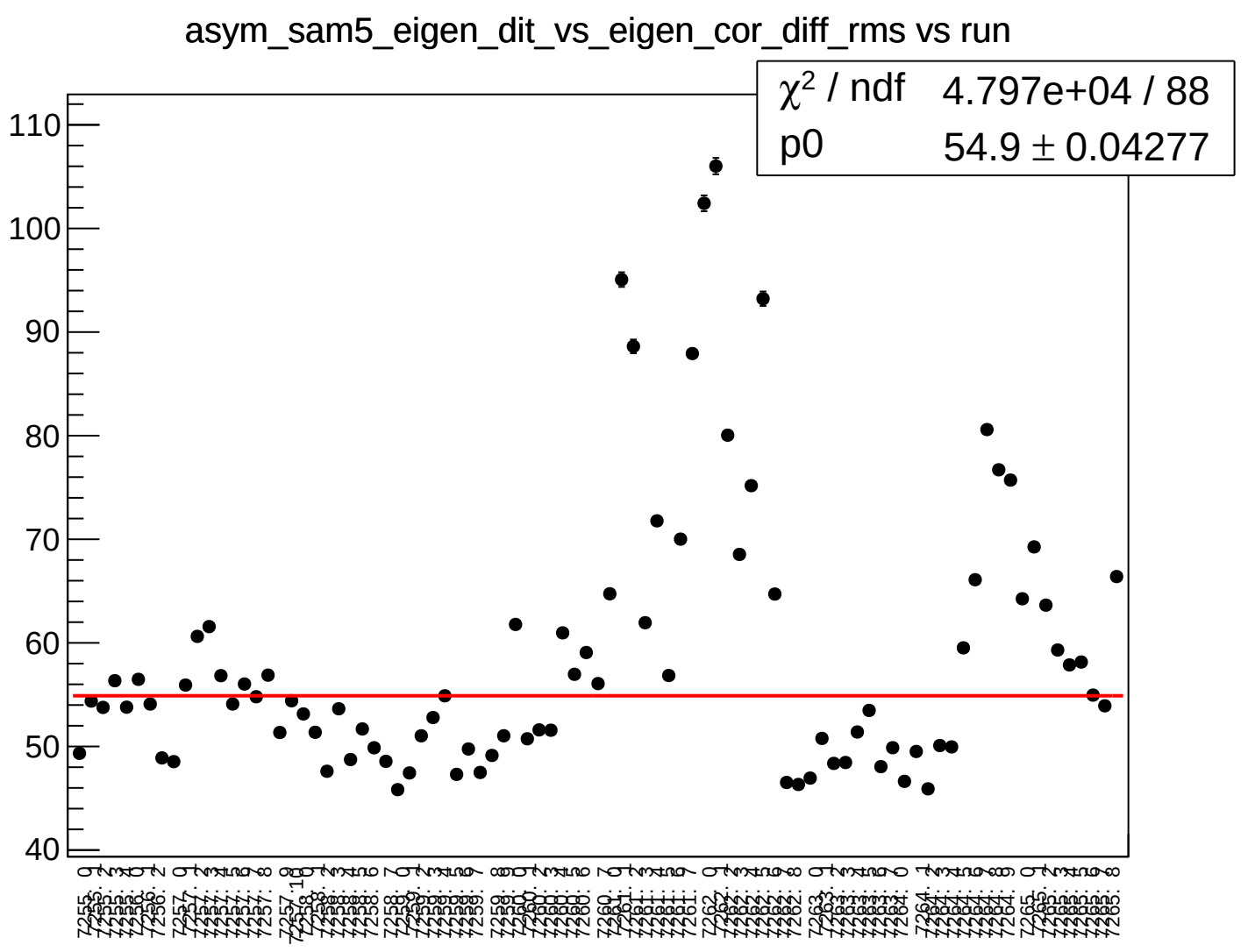

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5428 / 88
p0 0.005104 ± 3.926e−06
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044

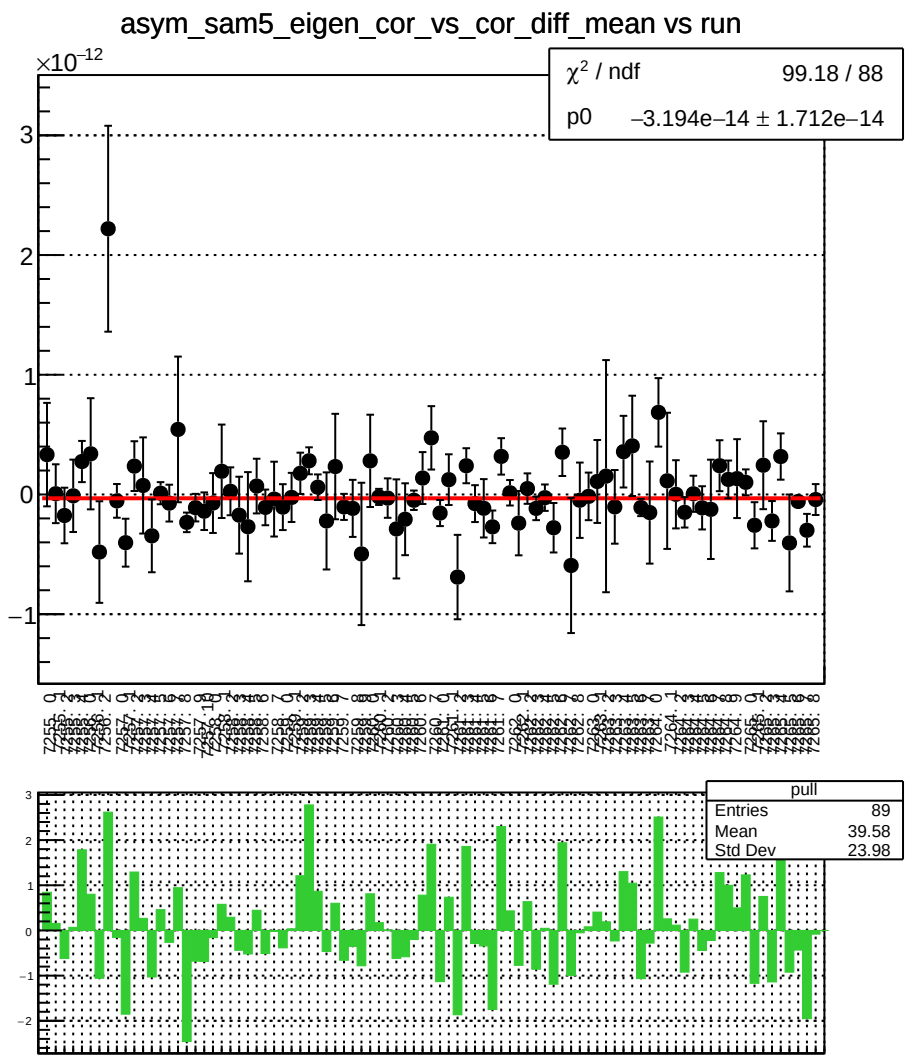

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.5 / 88
p0 0.03078 ± 0.06049
pull
Entries 89
Mean 49.15
Std Dev 0
pull1D
Entries 89
Mean −0.03348
Std Dev 1.098

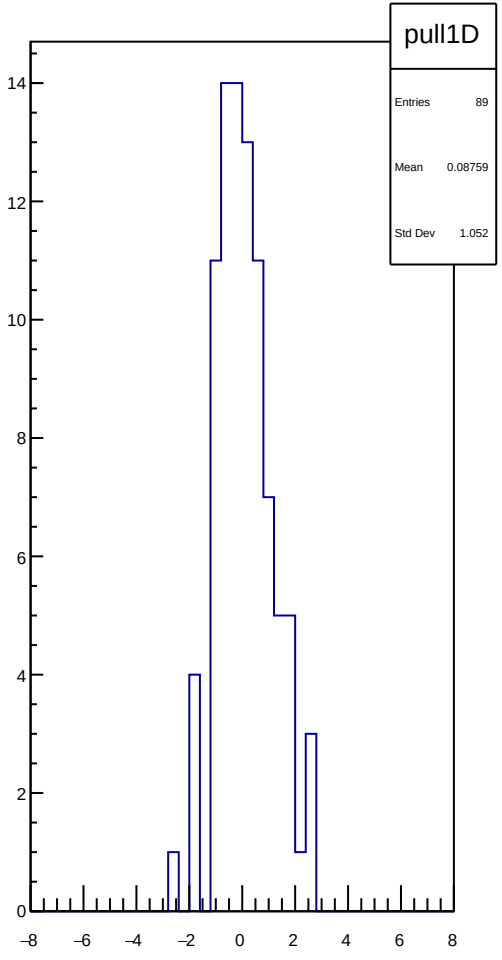

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.797e+04 / 88
p0 54.9 ± 0.04277
110
100
90
80
70
60
50
40

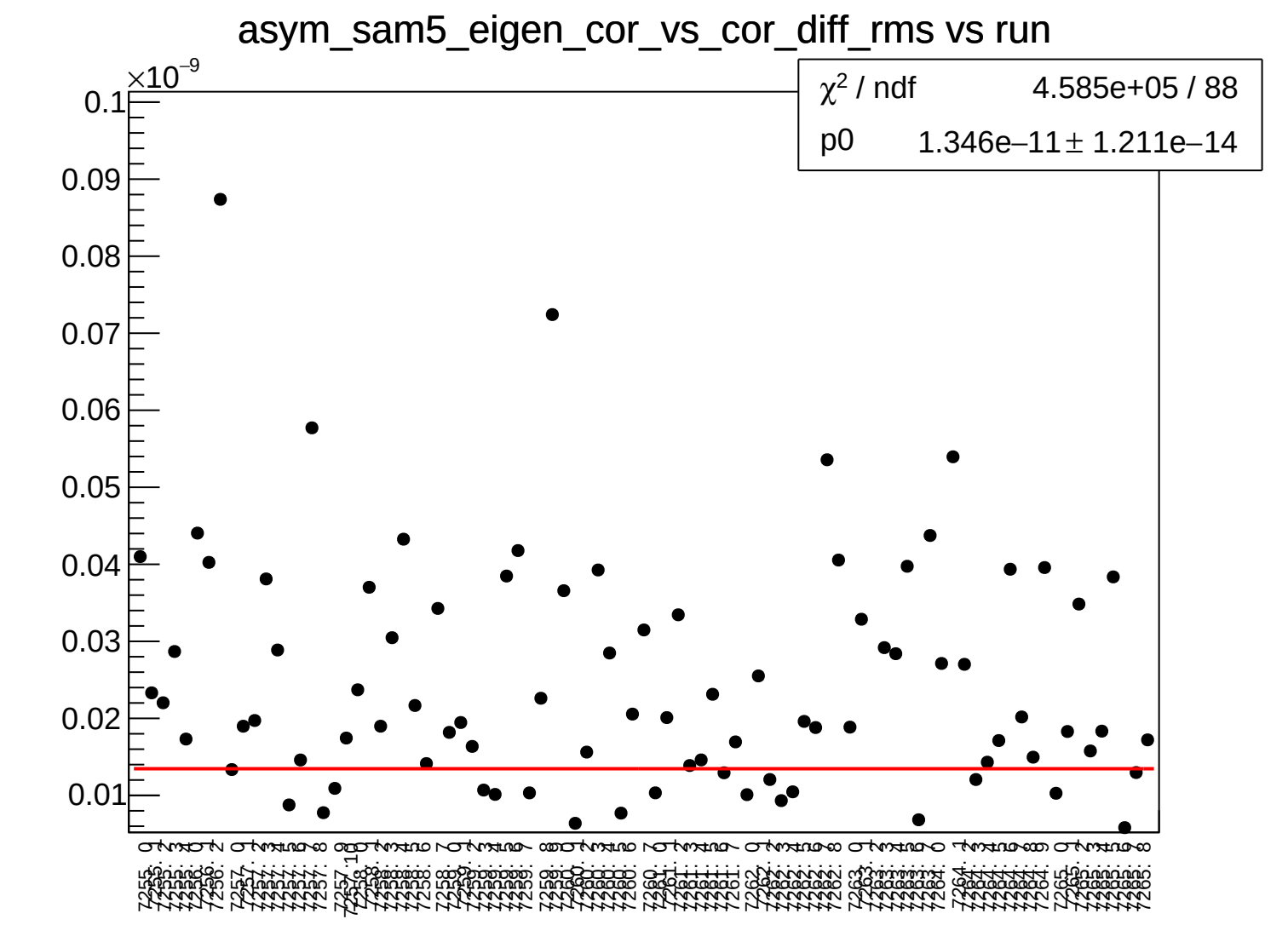

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.5 / 88
p0 0.03078 ± 0.06049
pull
Entries 89
Mean 49.15
Std Dev 0

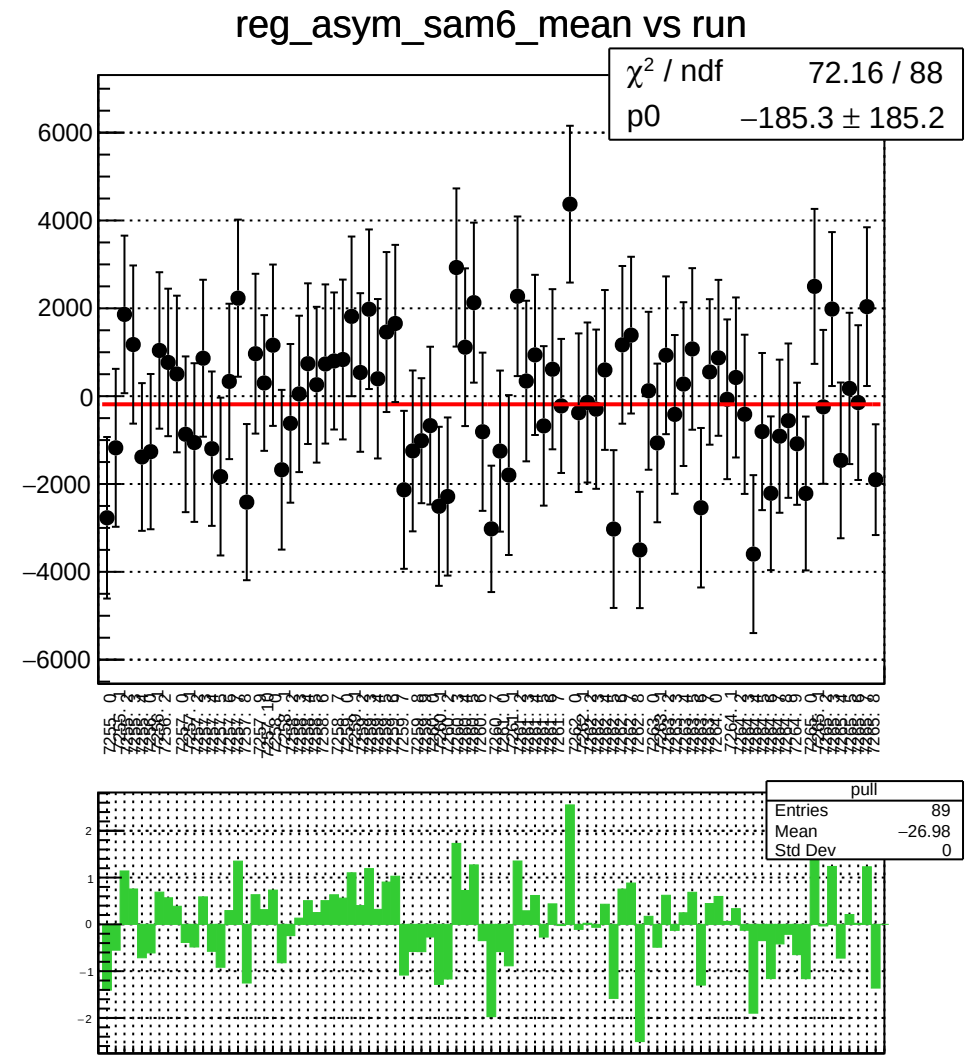

pull1D
Entries 89
Mean −0.03348
Std Dev 1.098

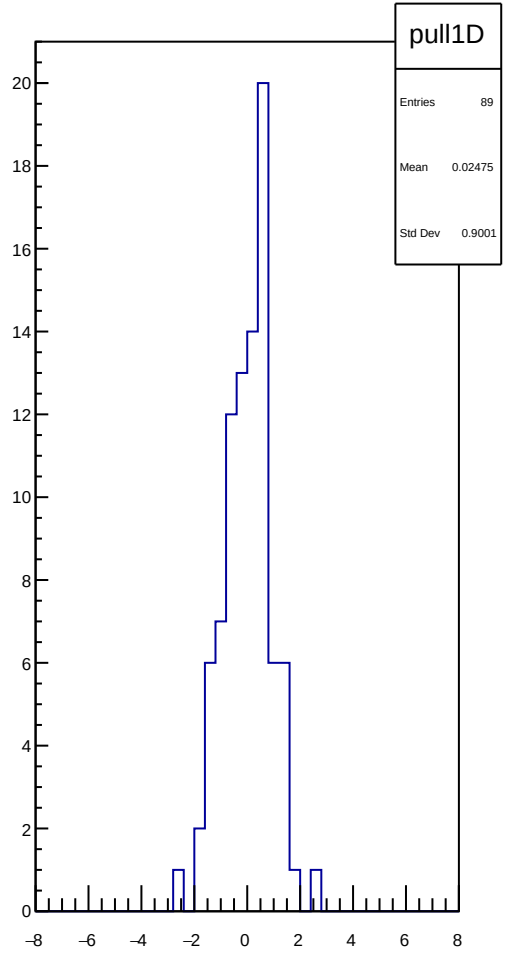

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.797e+04 / 88
p0 54.9 ± 0.04277
110
100
90
80
70
60
50
40

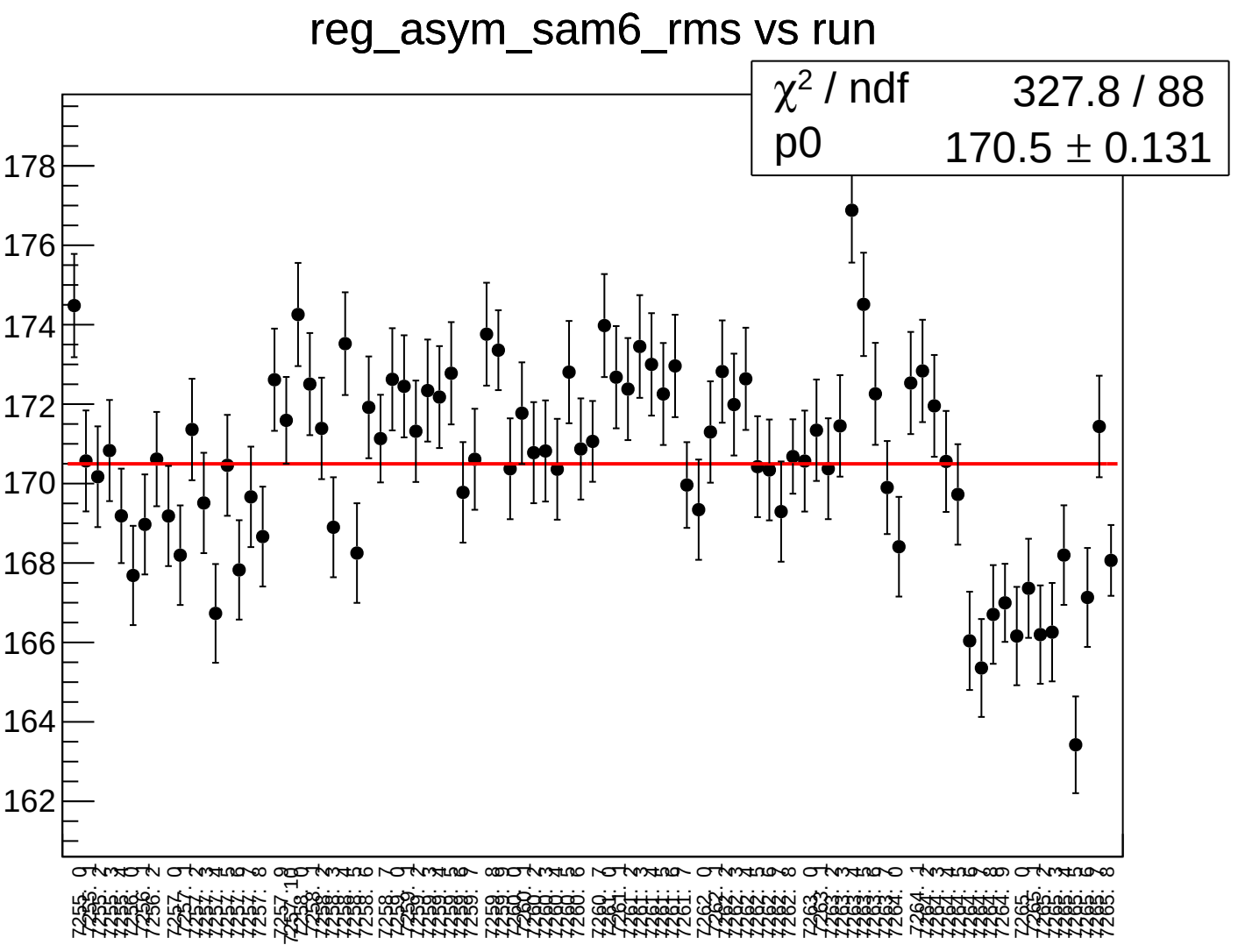

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.18 / 88
p0 −3.194e−14 ± 1.712e−14
pull
Entries 89
Mean 39.58
Std Dev 23.98

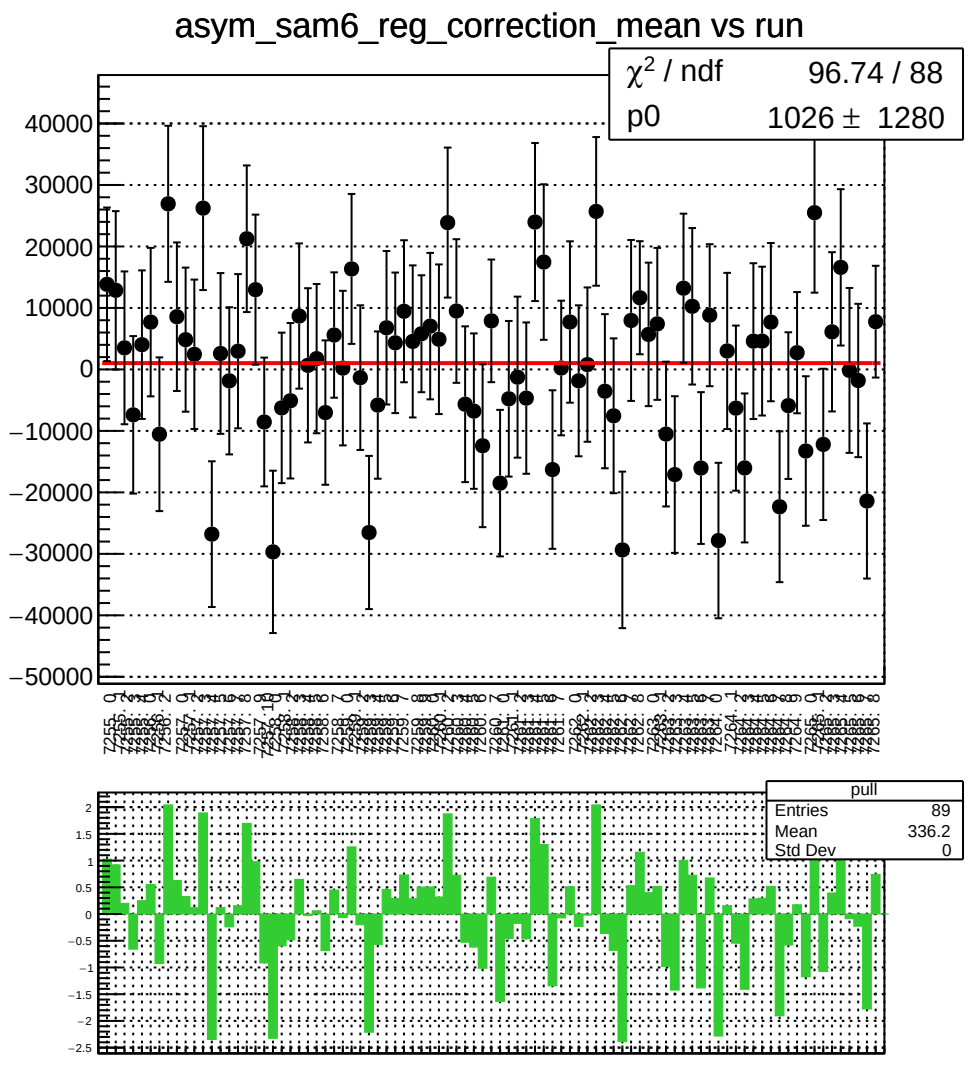

pull1D
Entries 89
Mean 0.08759
Std Dev 1.052

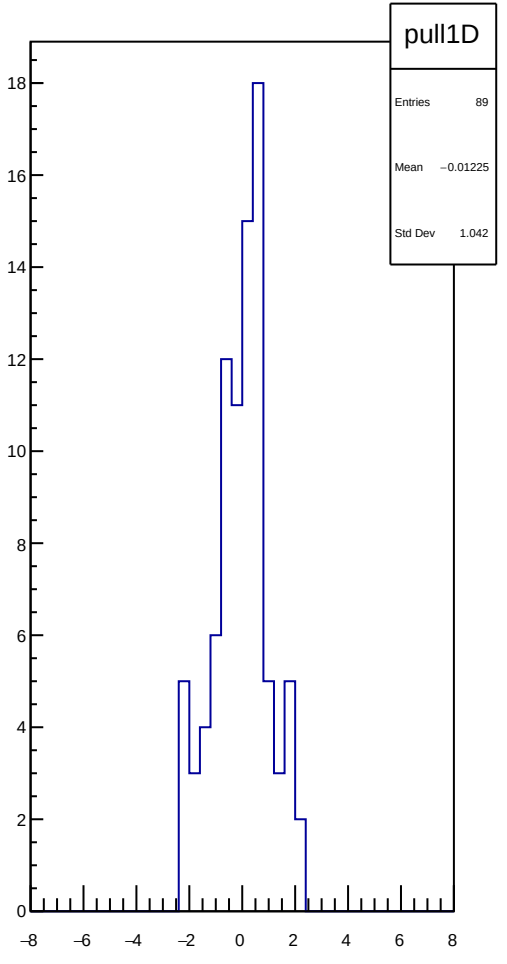

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.585e+05 / 88
p0 1.346e−11 ± 1.211e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

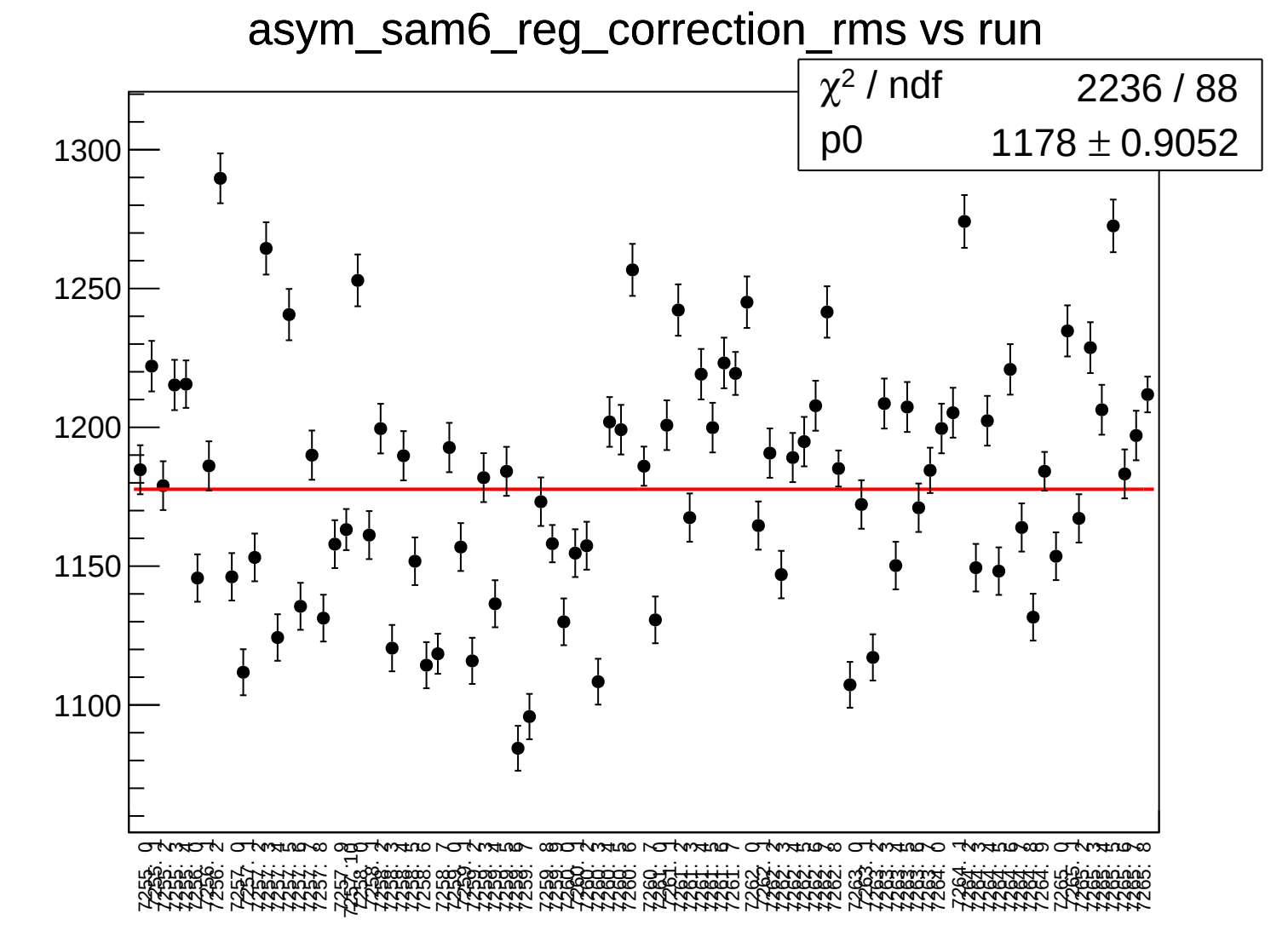

reg_asym_sam6_mean vs run
χ² / ndf 72.16 / 88
p0 −185.3 ± 185.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −26.98
Std Dev 0
2
1
0
−1
−2

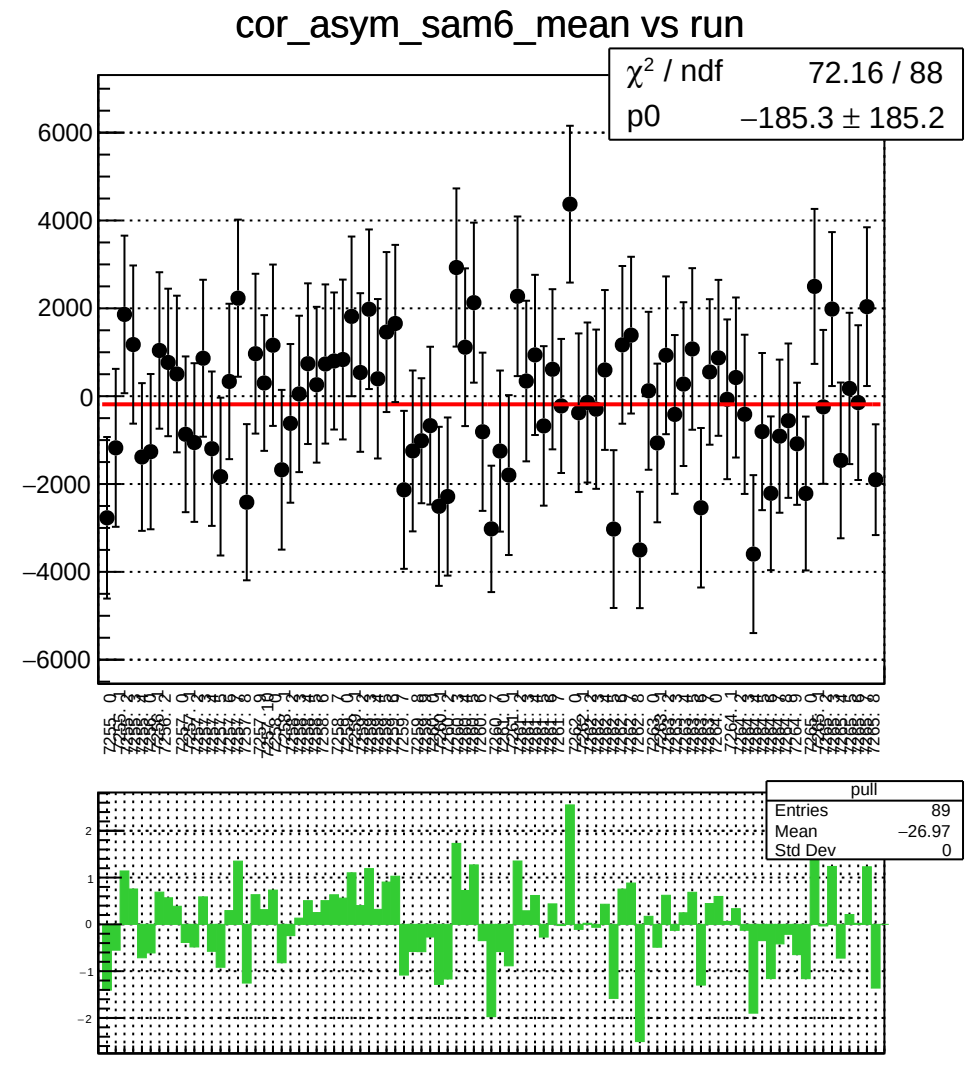

pull1D
Entries 89
Mean 0.02475
Std Dev 0.9001
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

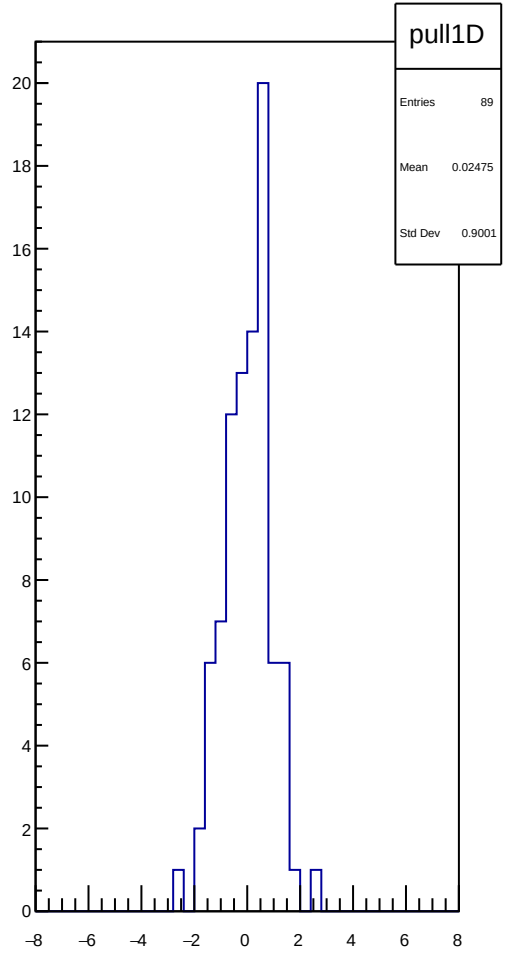

reg_asym_sam6_rms vs run
χ² / ndf 327.8 / 88
p0 170.5 ± 0.131
178
176
174
172
170
168
166
164
162

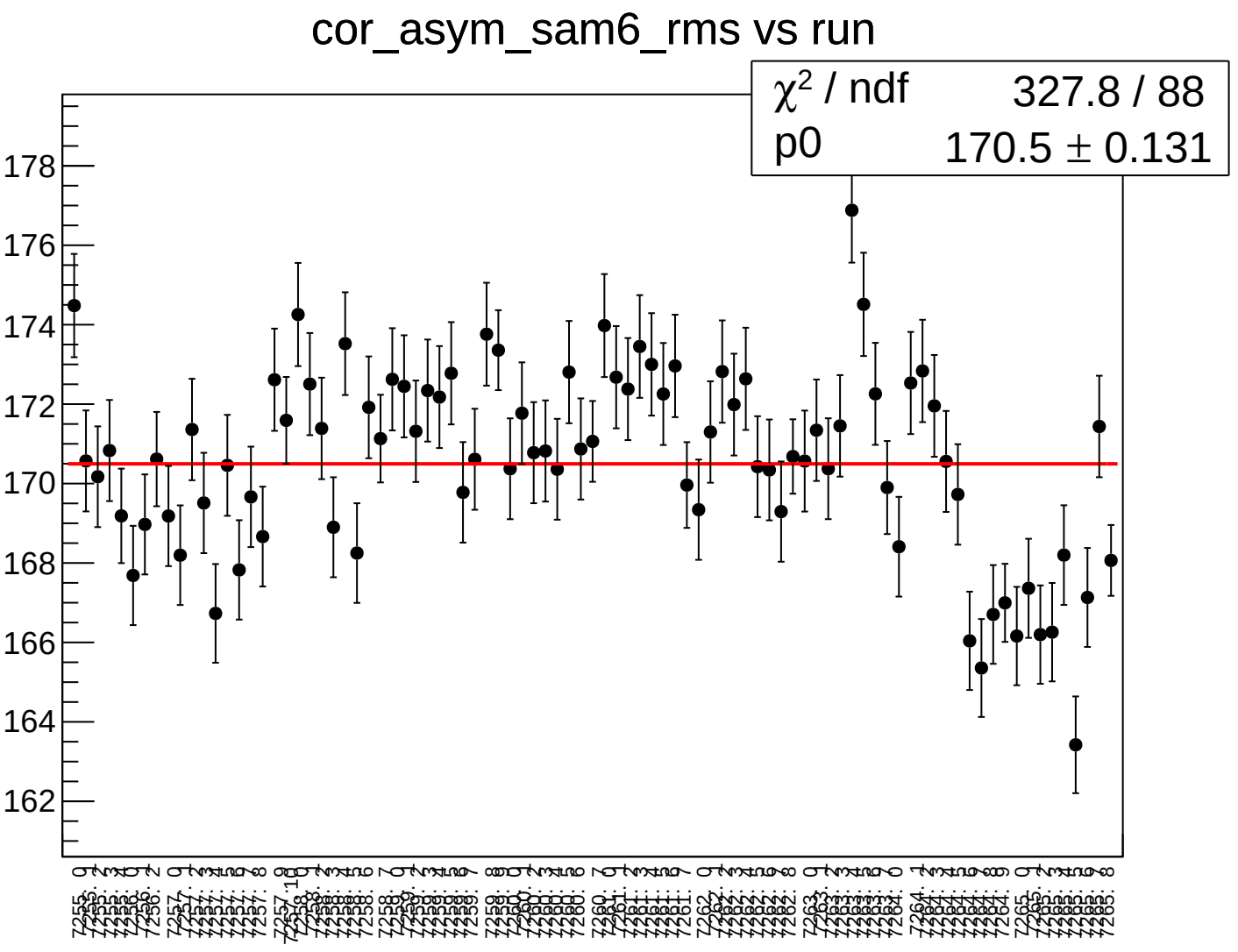

asym_sam6_reg_correction_mean vs run
χ² / ndf 96.74 / 88
p0 1026 ± 1280
pull
Entries 89
Mean 336.2
Std Dev 0

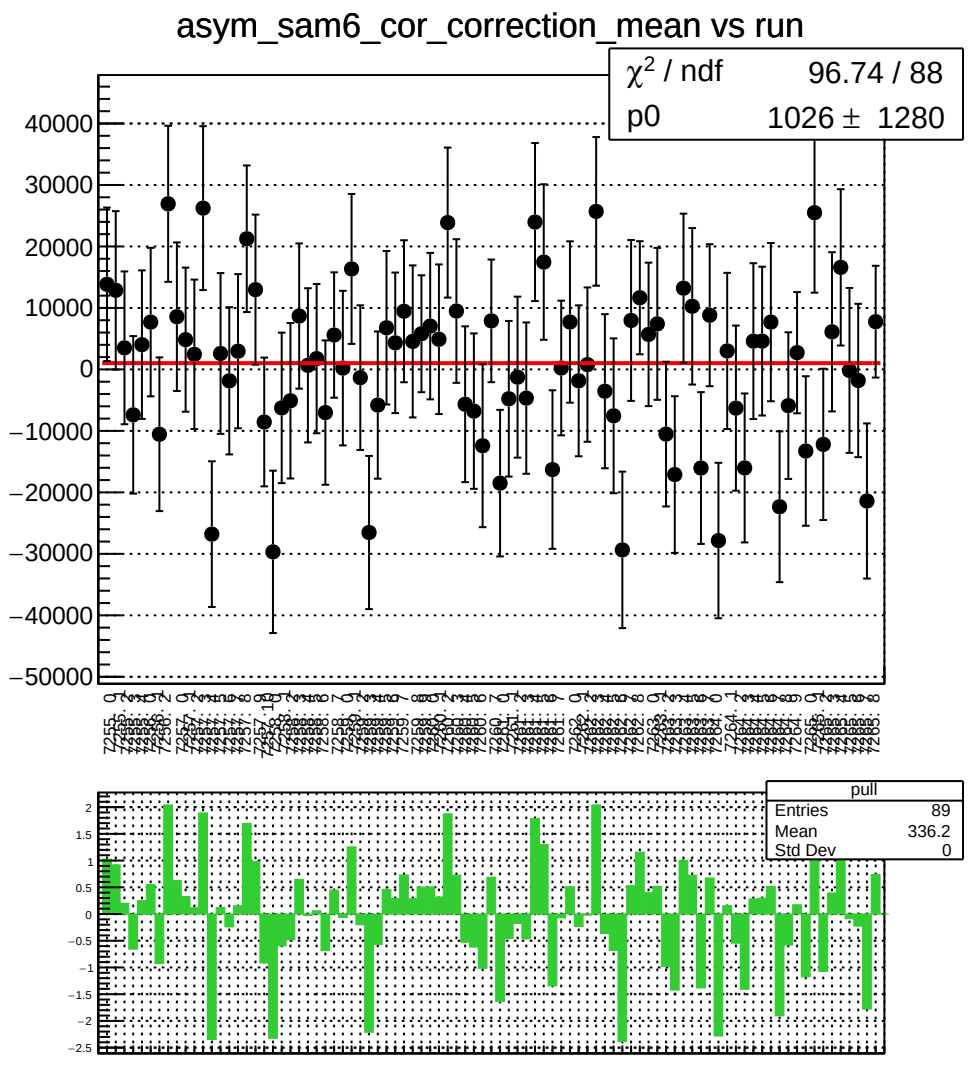

pull1D
Entries 89
Mean −0.01225
Std Dev 1.042

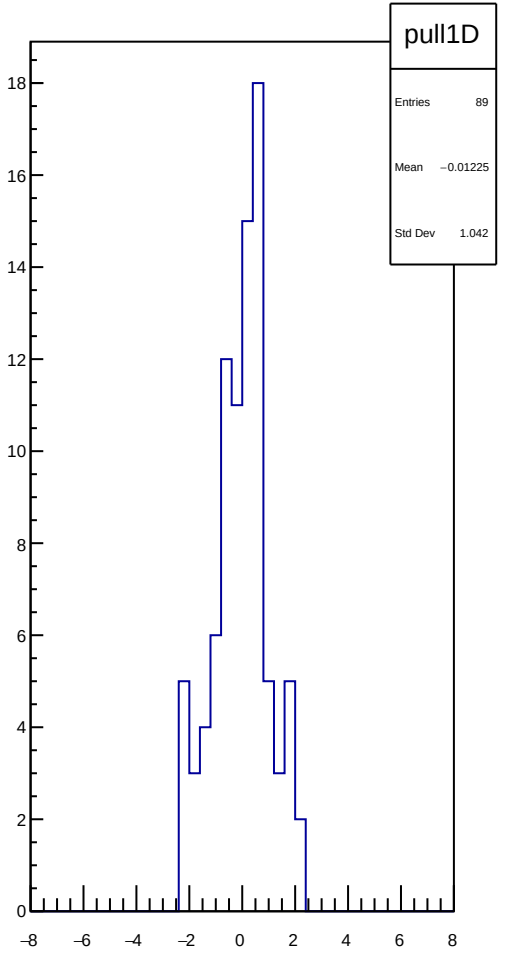

asym_sam6_reg_correction_rms vs run
χ² / ndf 2236 / 88
p0 1178 ± 0.9052
1300
1250
1200
1150
1100

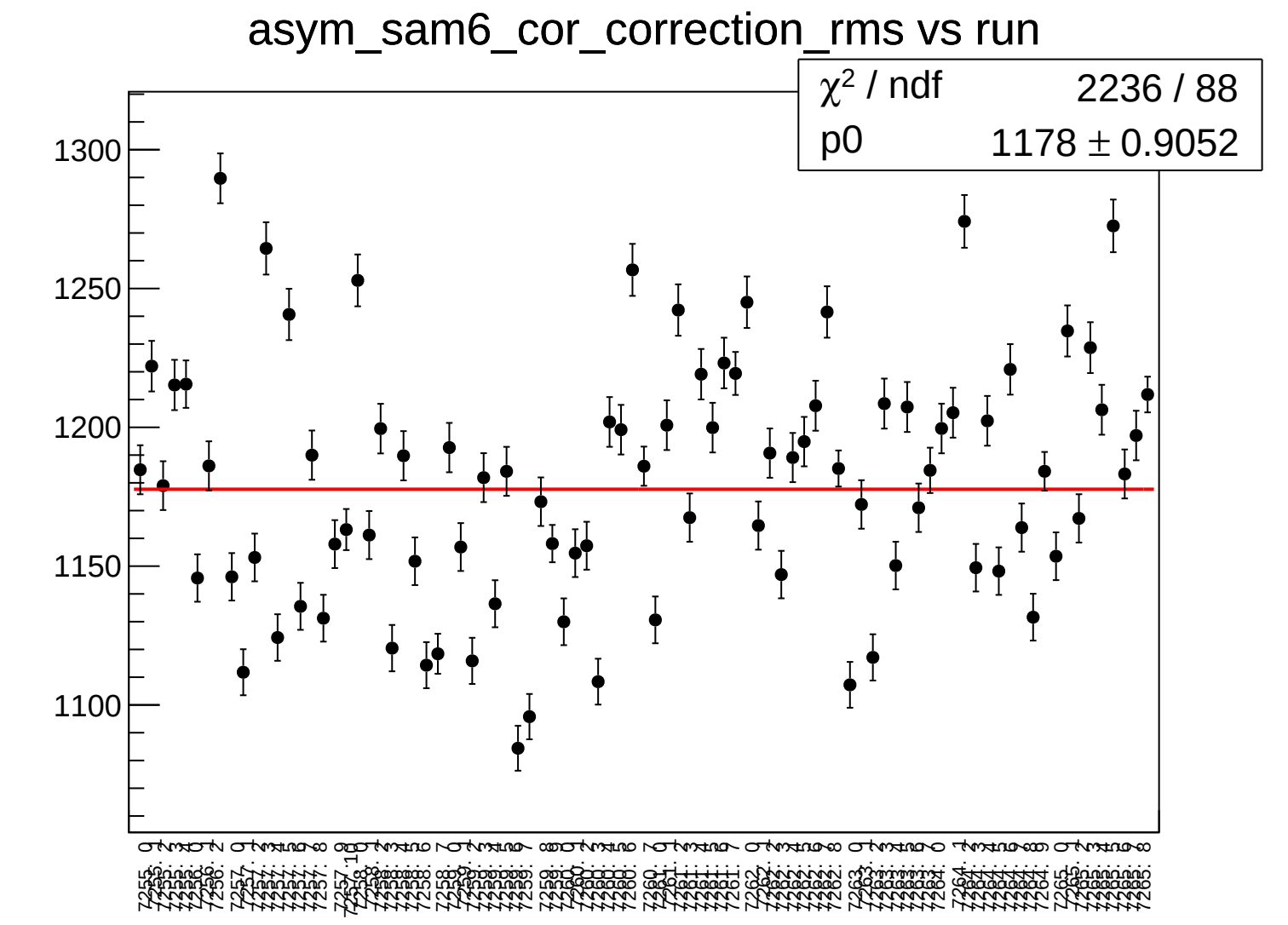

cor_asym_sam6_mean vs run
χ² / ndf 72.16 / 88
p0 −185.3 ± 185.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −26.97
Std Dev 0
2
1
0
−1
−2

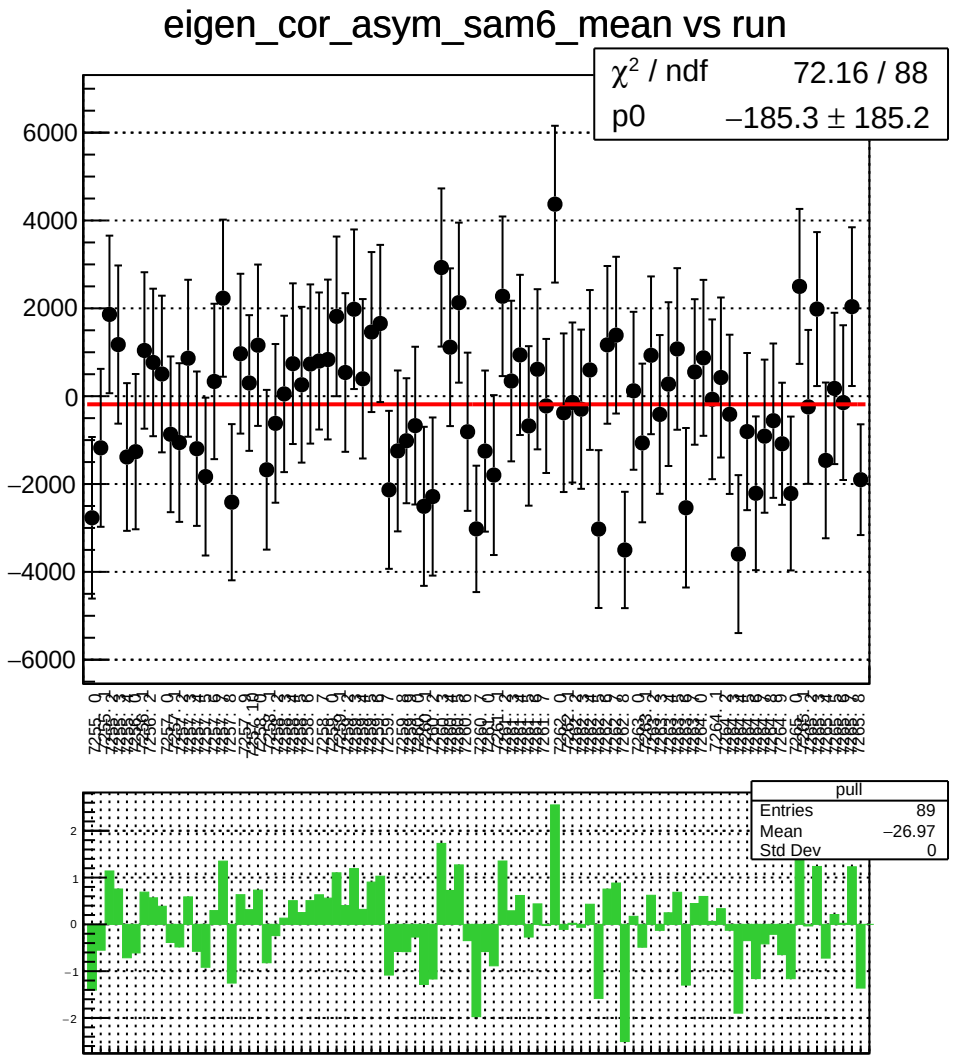

pull1D
Entries 89
Mean 0.02475
Std Dev 0.9001
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

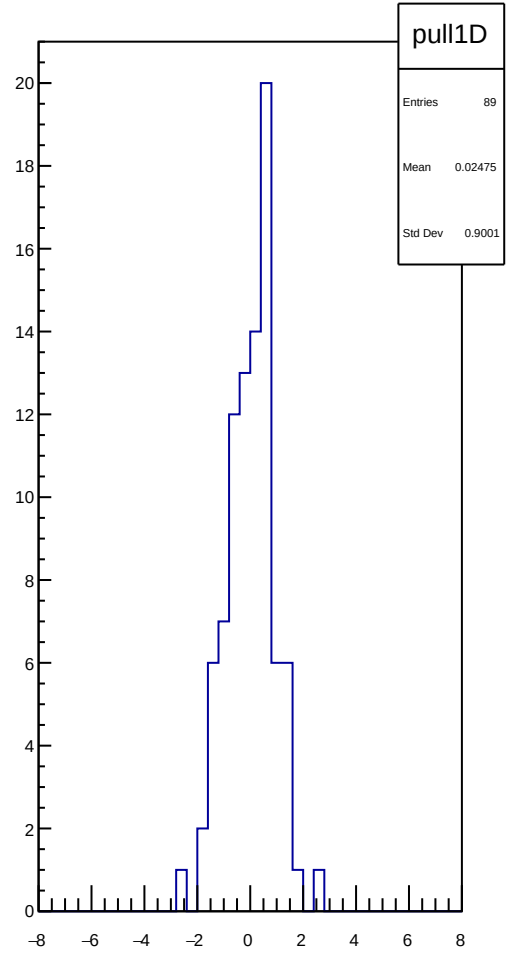

cor_asym_sam6_rms vs run
χ^2 / ndf 327.8 / 88
p0 170.5 ± 0.131
178
176
174
172
170
168
166
164
162

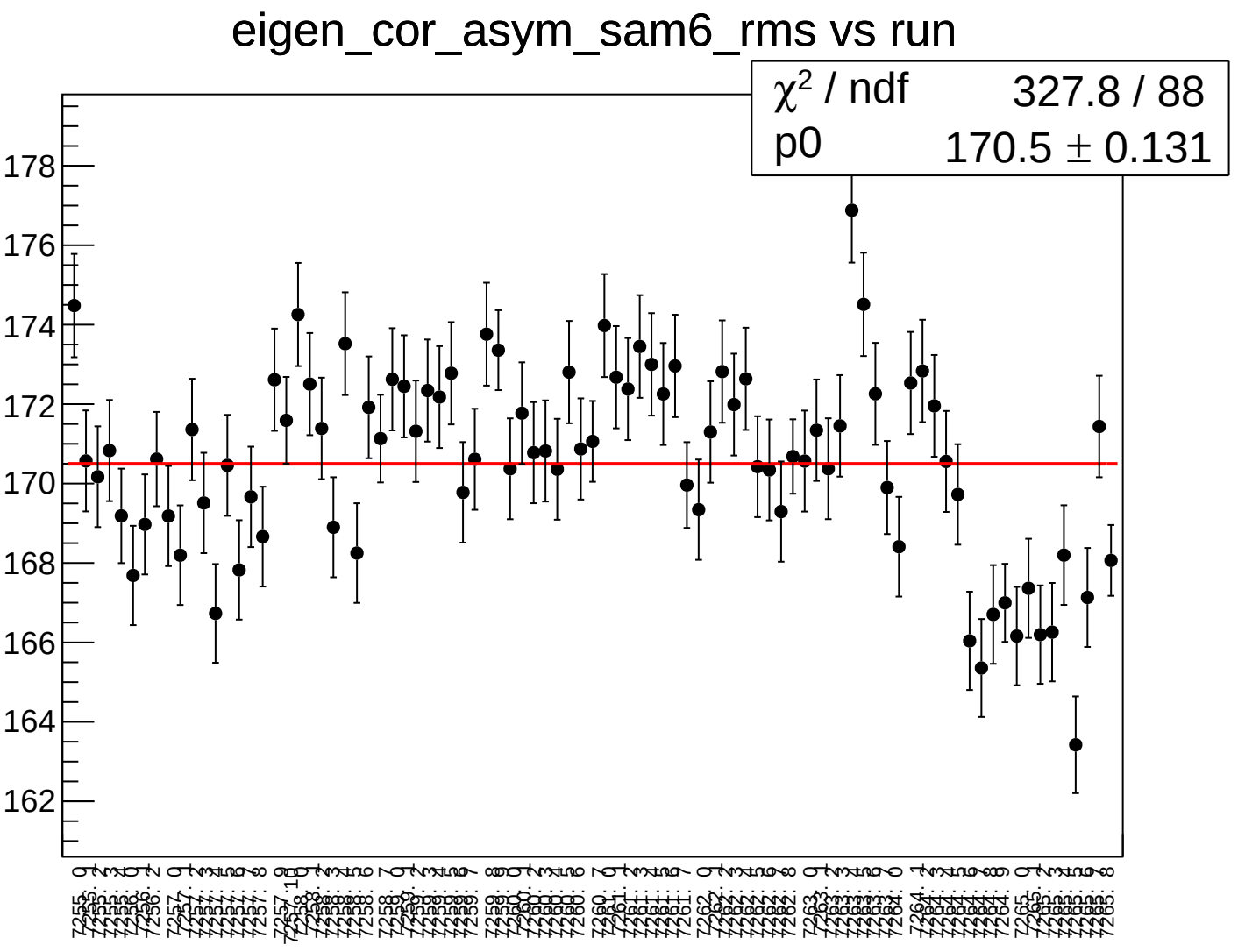

asym_sam6_cor_correction_mean vs run
χ² / ndf 96.74 / 88
p0 1026 ± 1280
pull
Entries 89
Mean 336.2
Std Dev 0

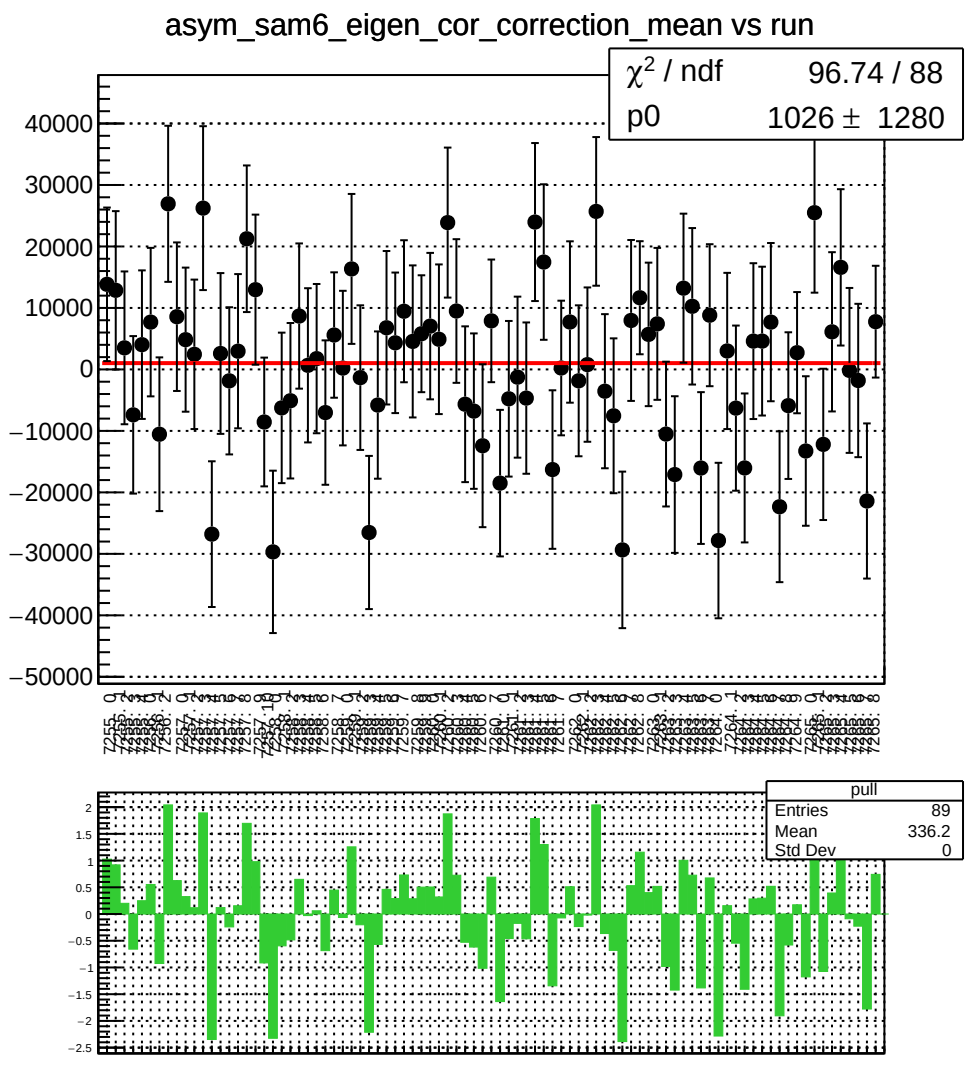

pull1D
Entries 89
Mean −0.01225
Std Dev 1.042

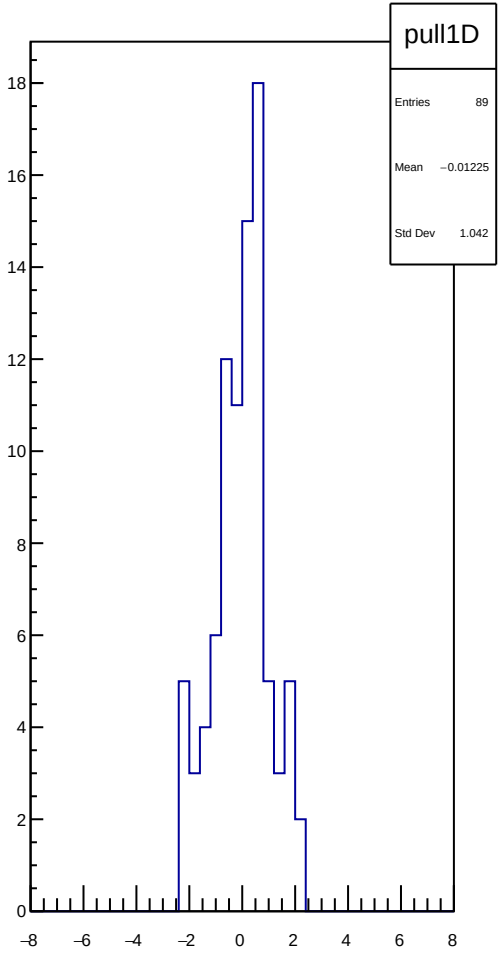

asym_sam6_cor_correction_rms vs run
χ² / ndf 2236 / 88
p0 1178 ± 0.9052
1300
1250
1200
1150
1100

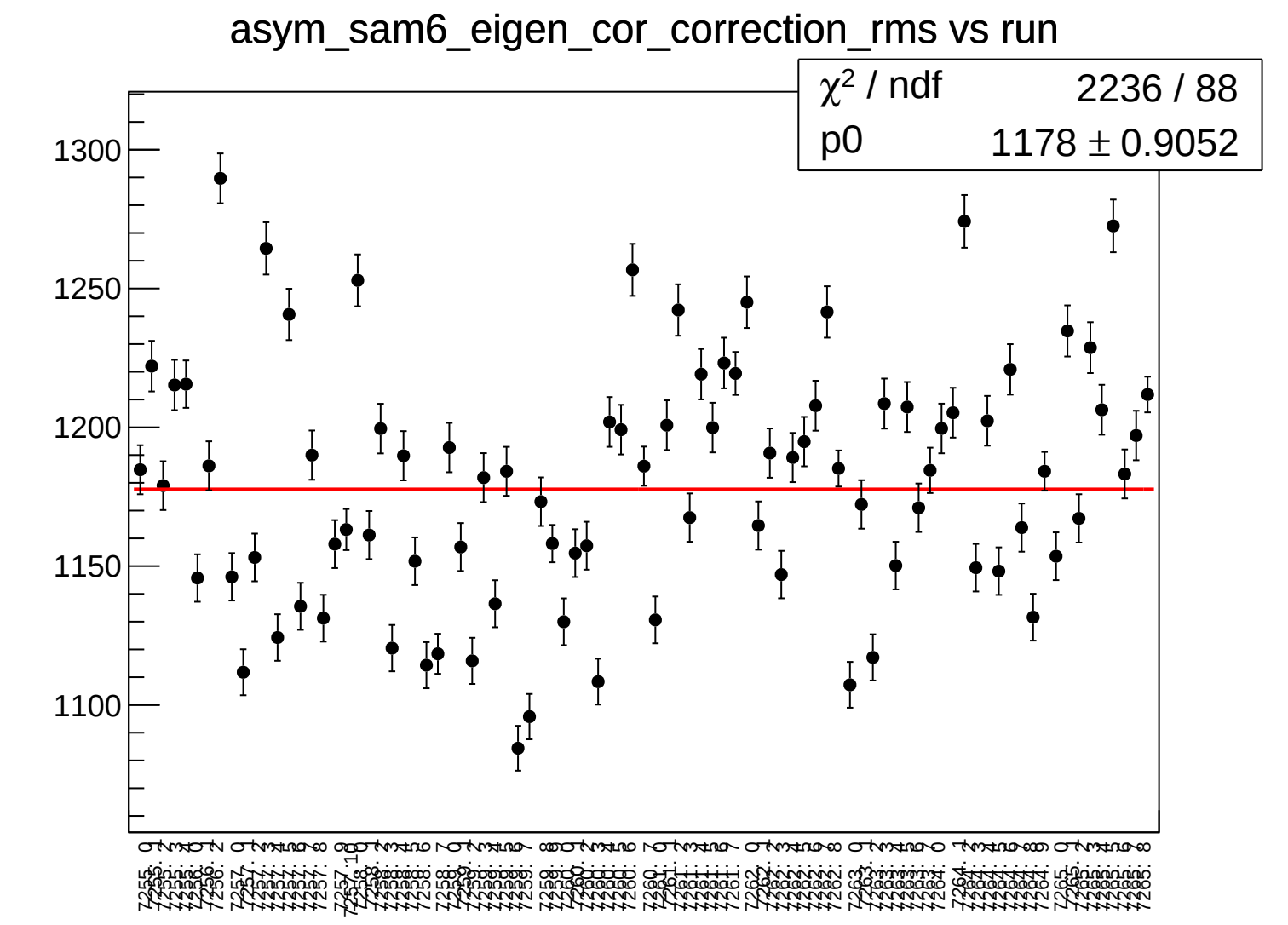

eigen_cor_asym_sam6_mean vs run
χ² / ndf 72.16 / 88
p0 −185.3 ± 185.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −26.97
Std Dev 0
2
1
0
−1
−2

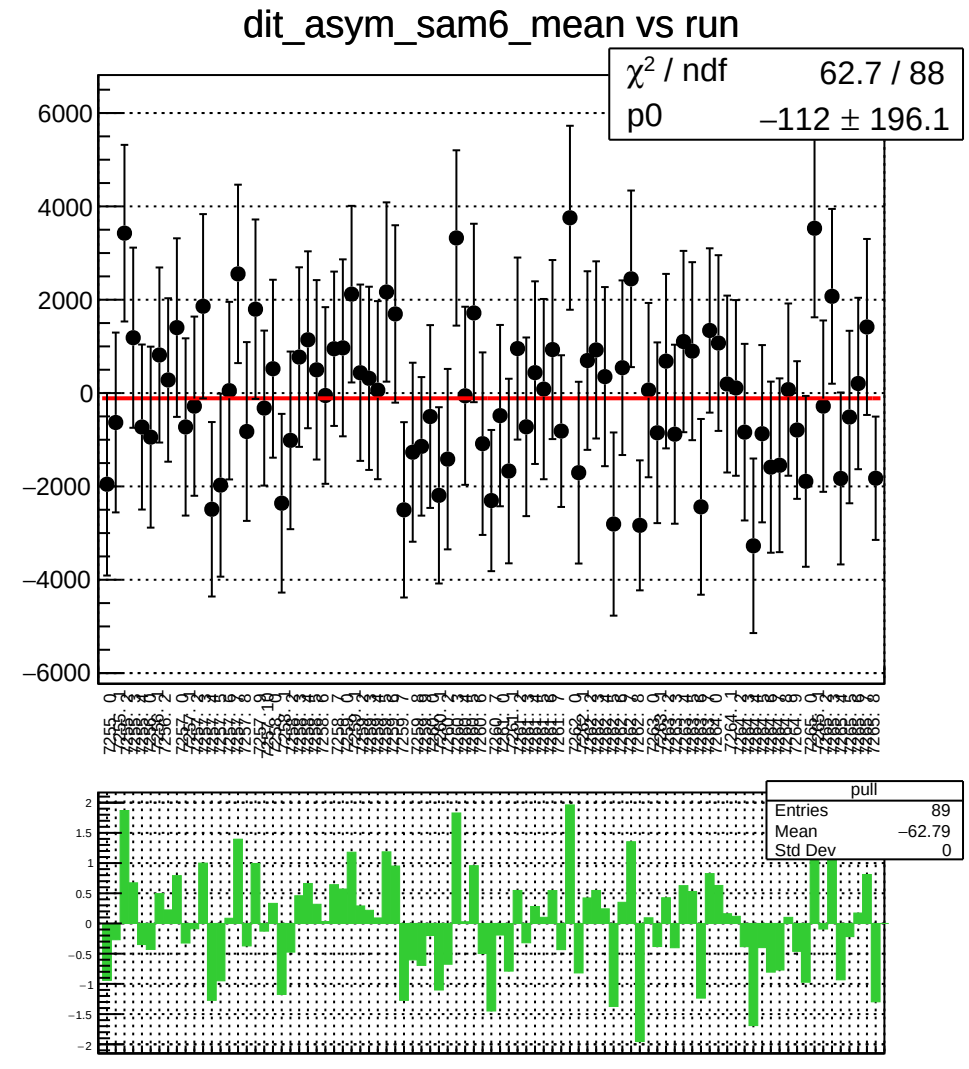

pull1D
Entries 89
Mean 0.02475
Std Dev 0.9001
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

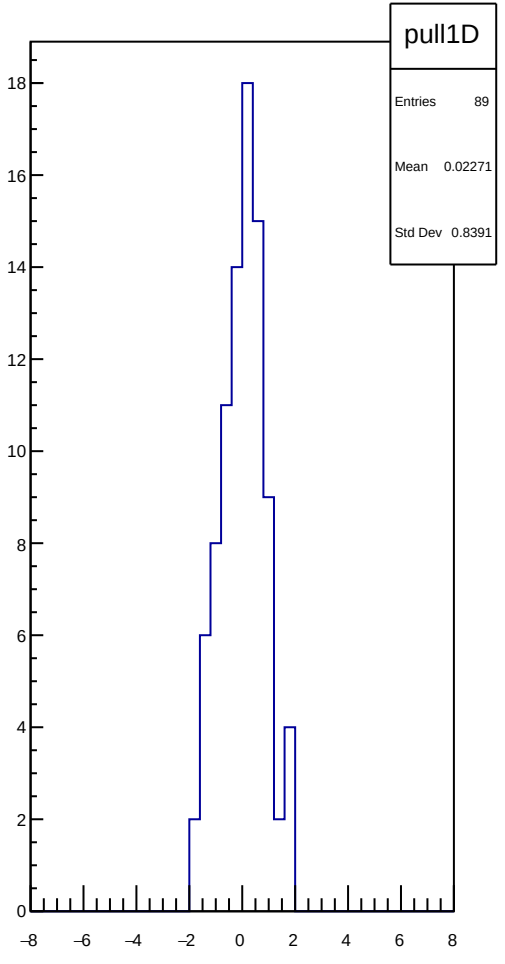

eigen_cor_asym_sam6_rms vs run
χ² / ndf 327.8 / 88
p0 170.5 ± 0.131
178
176
174
172
170
168
166
164
162

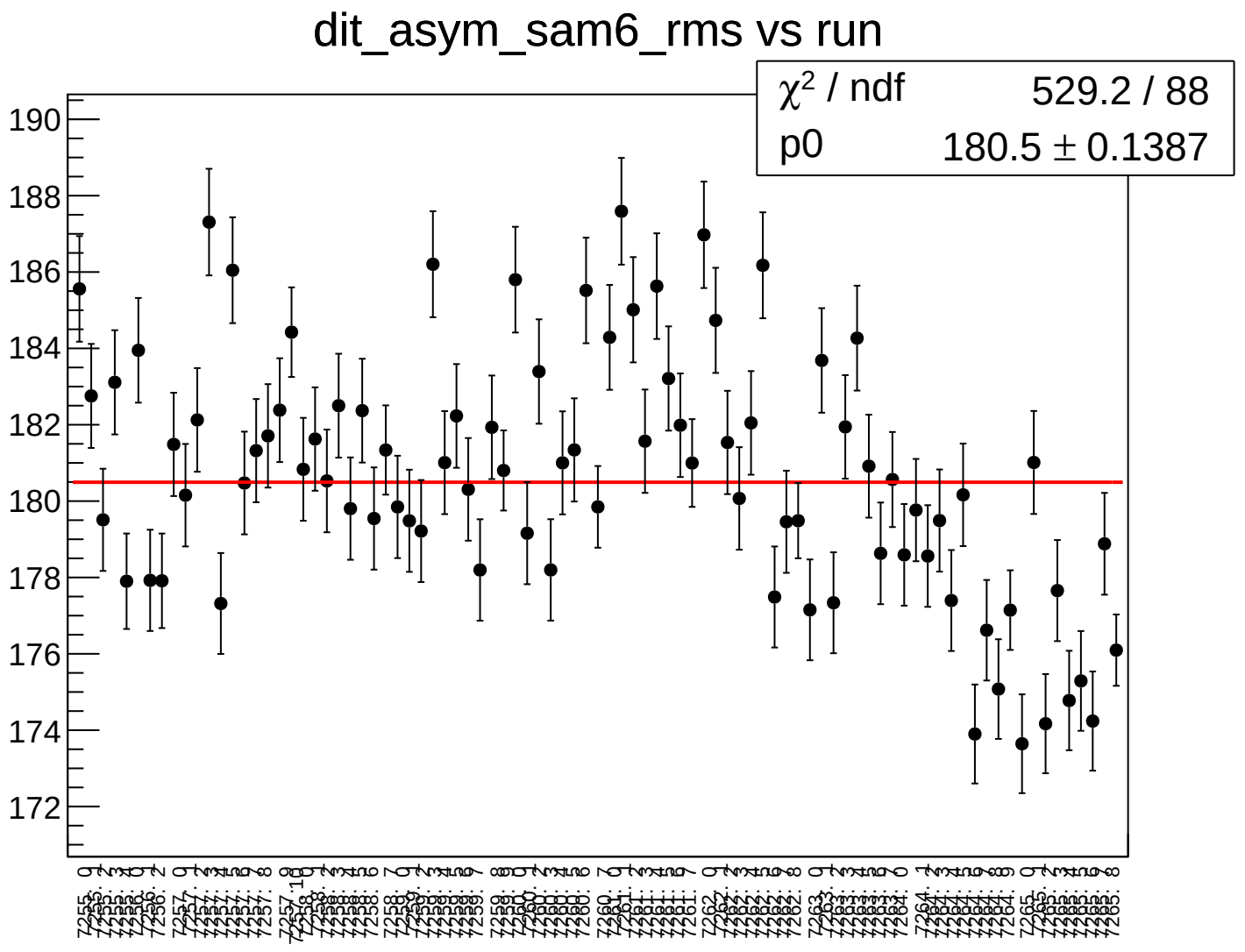

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 96.74 / 88
p0 1026 ± 1280
pull
Entries 89
Mean 336.2
Std Dev 0

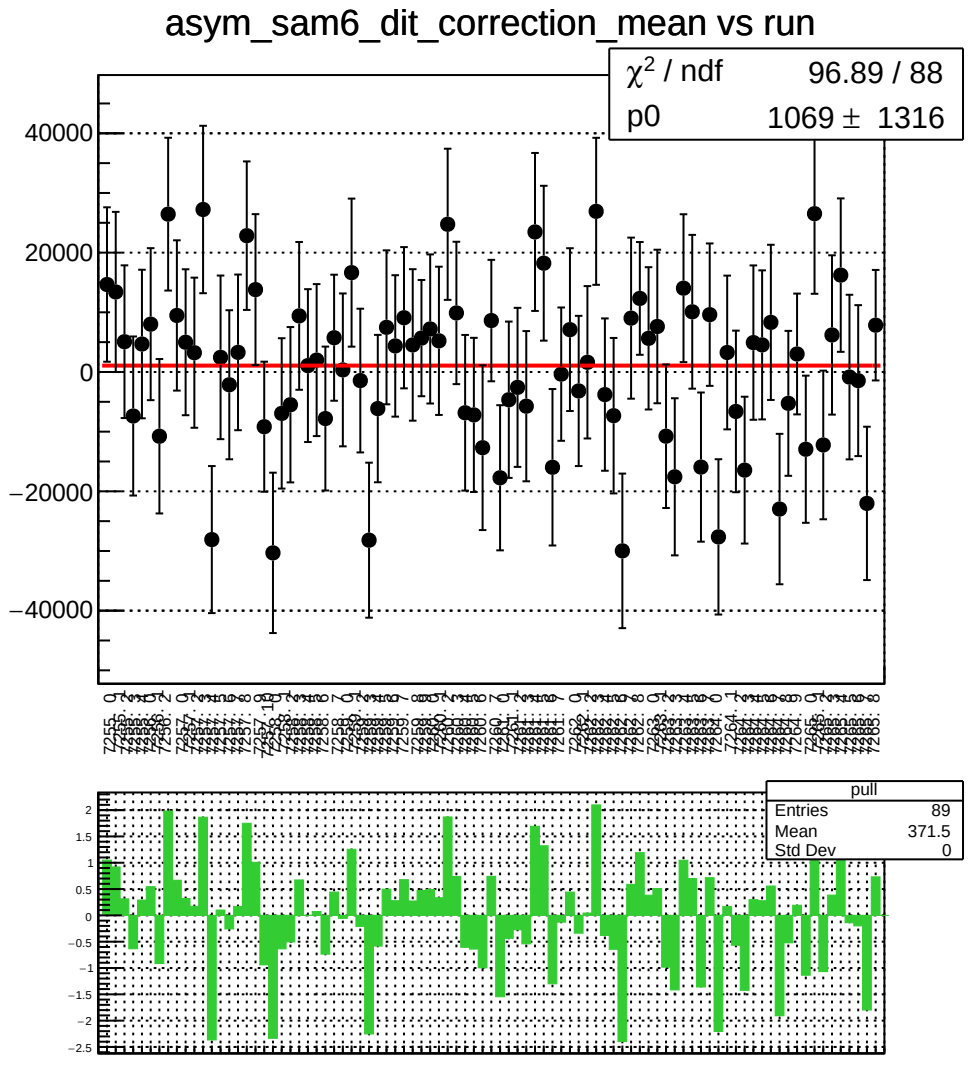

pull1D
Entries 89
Mean −0.01225
Std Dev 1.042

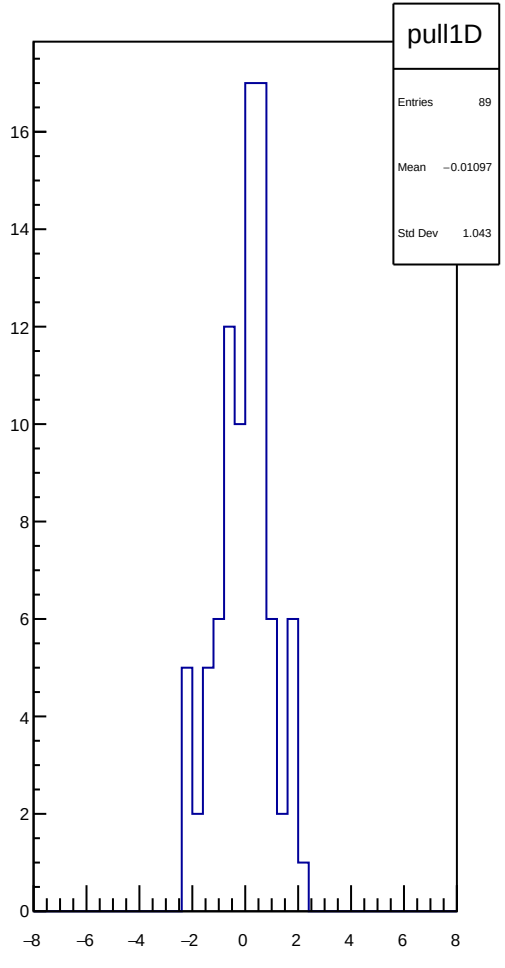

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 2236 / 88
p0 1178 ± 0.9052
1300
1250
1200
1150
1100

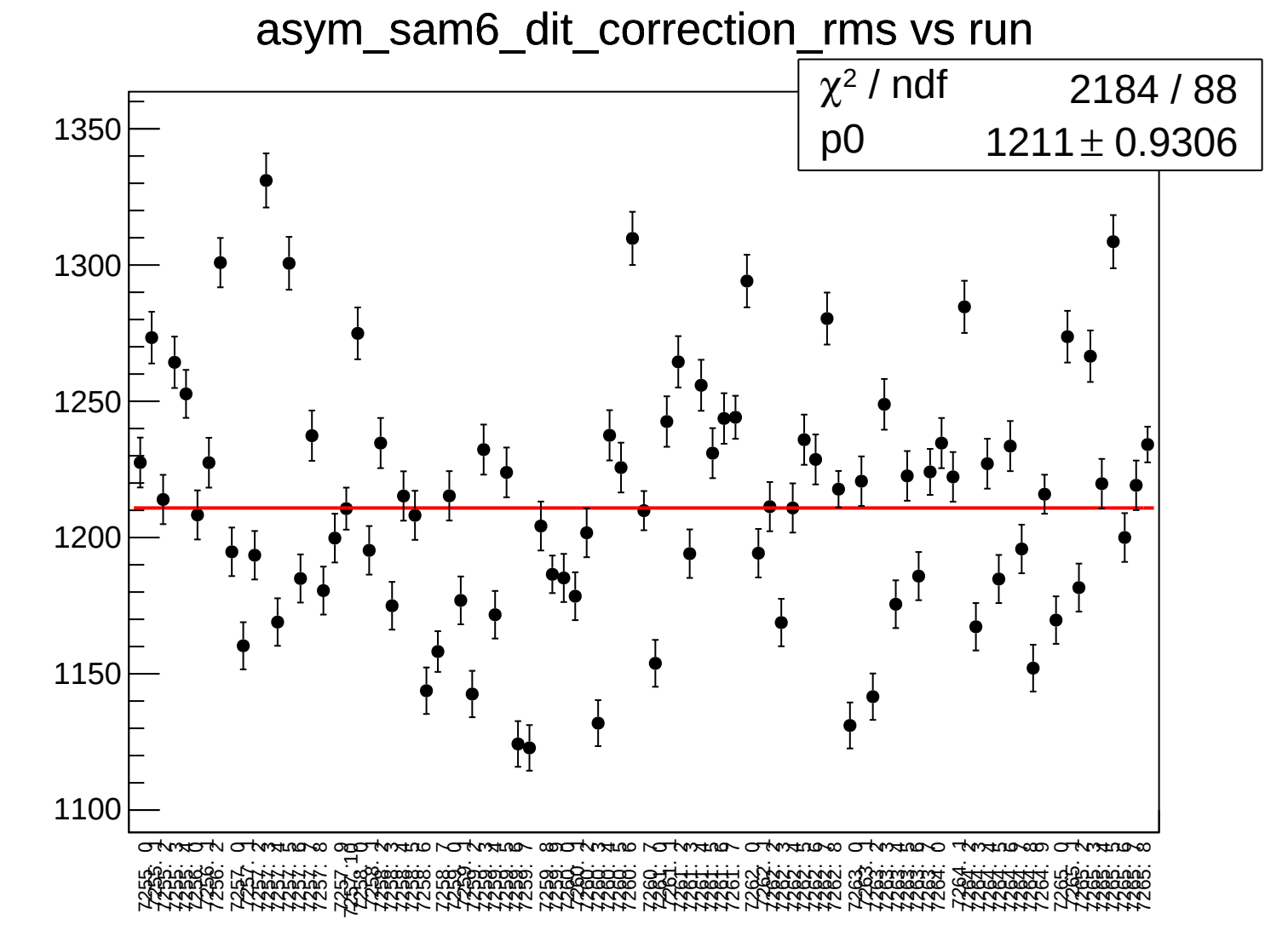

dit_asym_sam6_mean vs run
χ² / ndf 62.7 / 88
p0 −112 ± 196.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −62.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

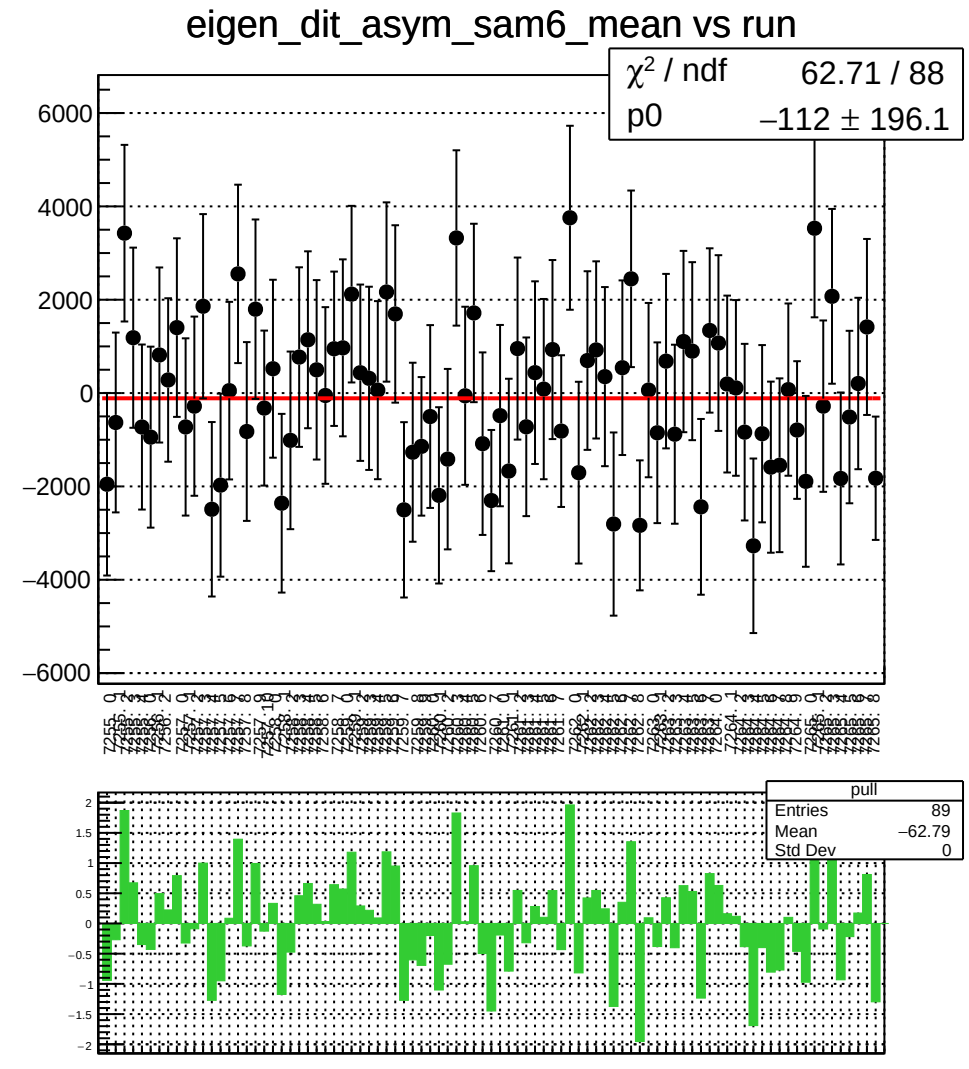

pull1D
Entries 89
Mean 0.02271
Std Dev 0.8391
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

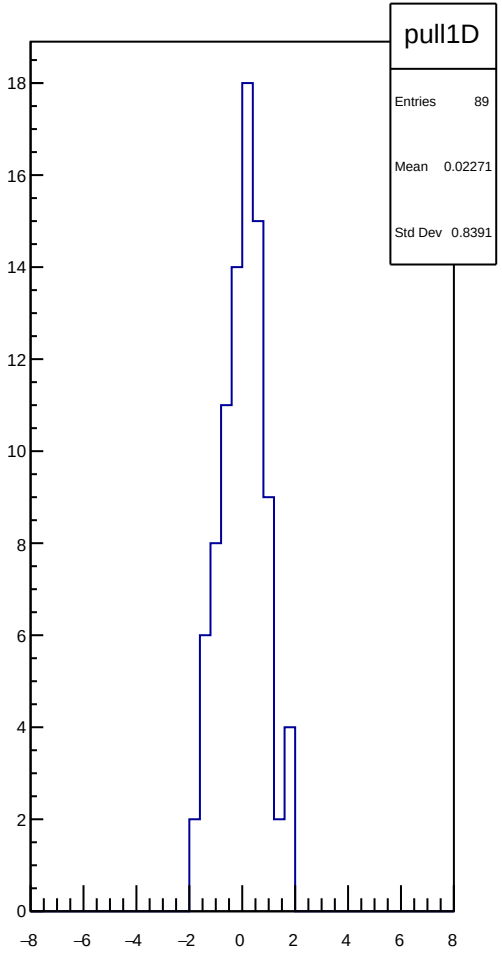

dit_asym_sam6_rms vs run
χ² / ndf 529.2 / 88
p0 180.5 ± 0.1387
190
188
186
184
182
180
178
176
174
172

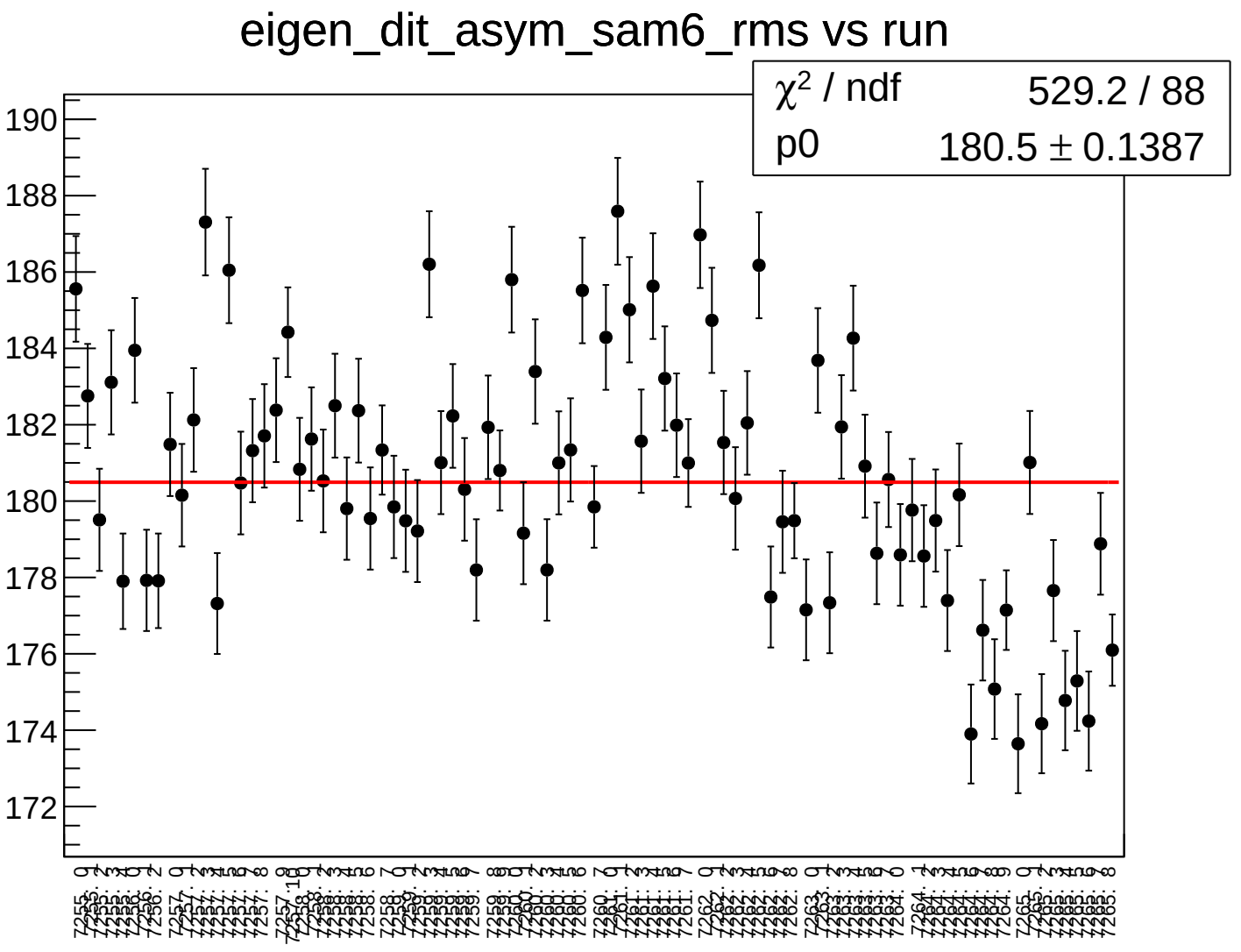

asym_sam6_dit_correction_mean vs run
χ² / ndf 96.89 / 88
p0 1069 ± 1316
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 371.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

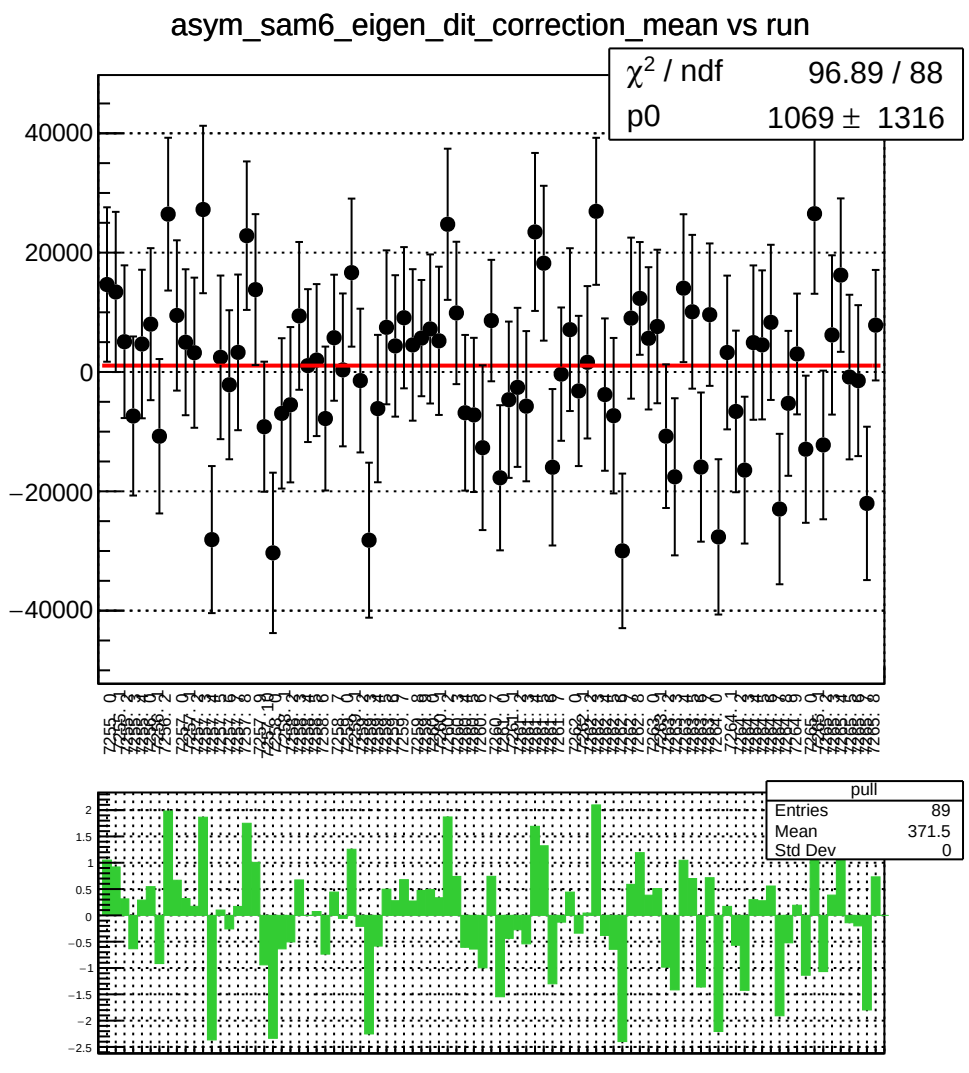

pull1D
Entries 89
Mean −0.01097
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

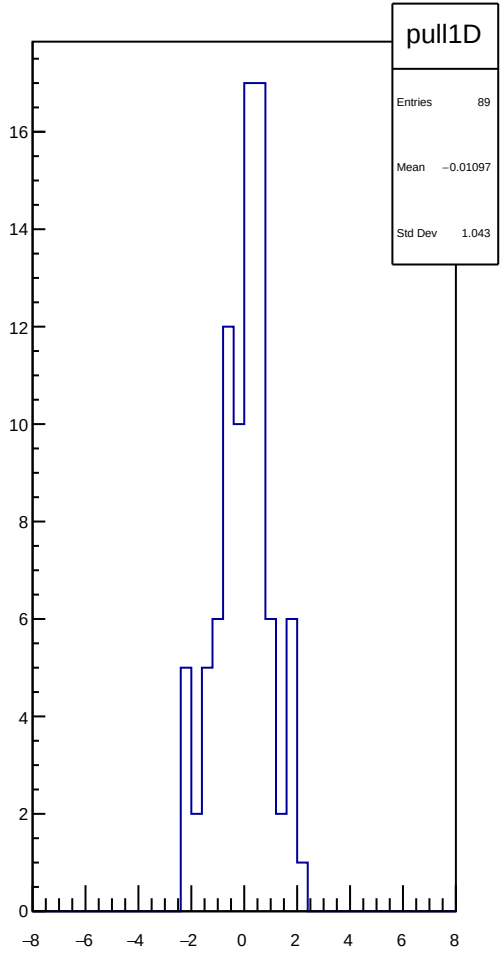

asym_sam6_dit_correction_rms vs run
χ² / ndf 2184 / 88
p0 1211 ± 0.9306
1350
1300
1250
1200
1150
1100

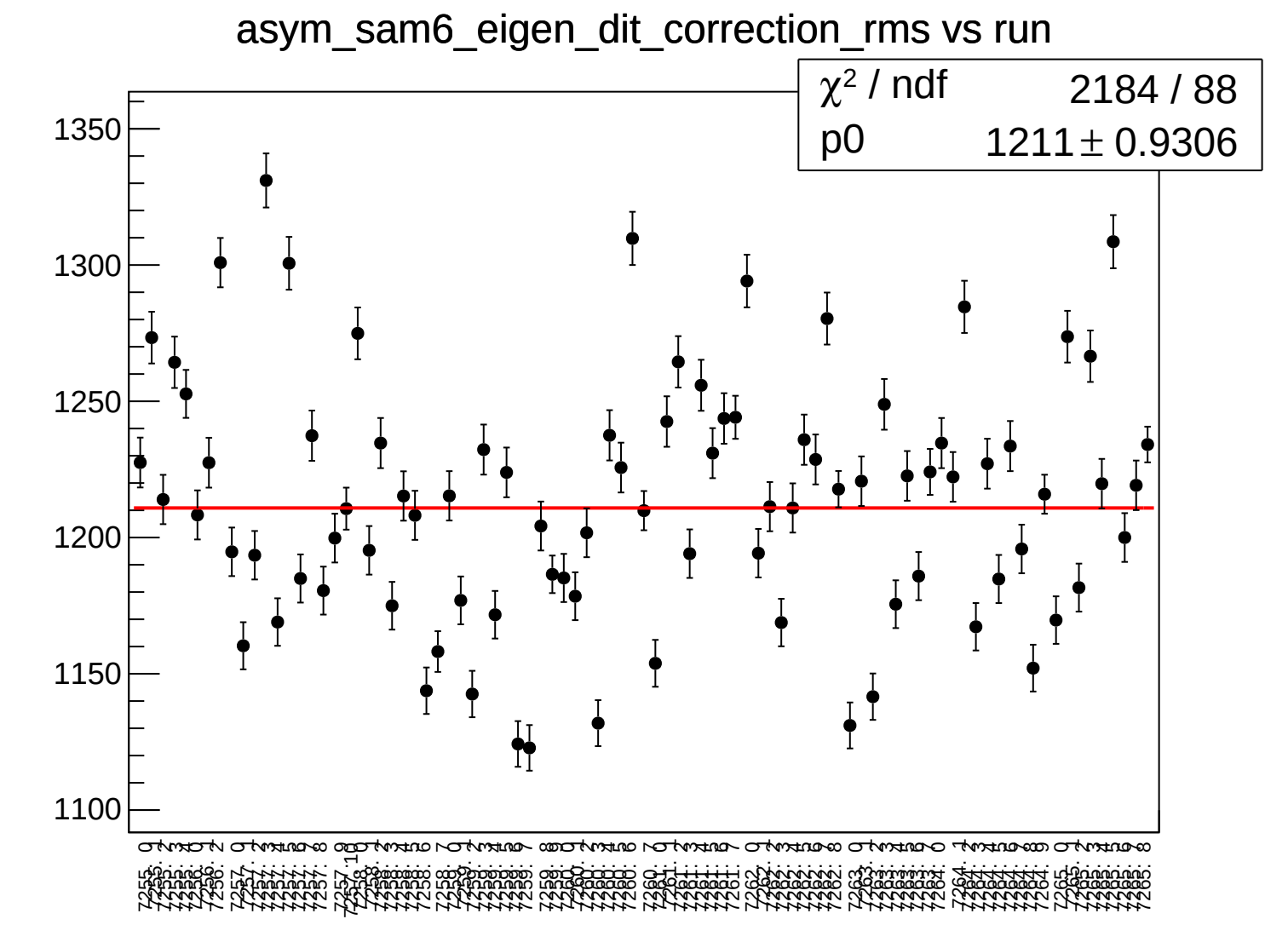

eigen_dit_asym_sam6_mean vs run
χ² / ndf 62.71 / 88
p0 −112 ± 196.1
pull
Entries 89
Mean −62.79
Std Dev 0

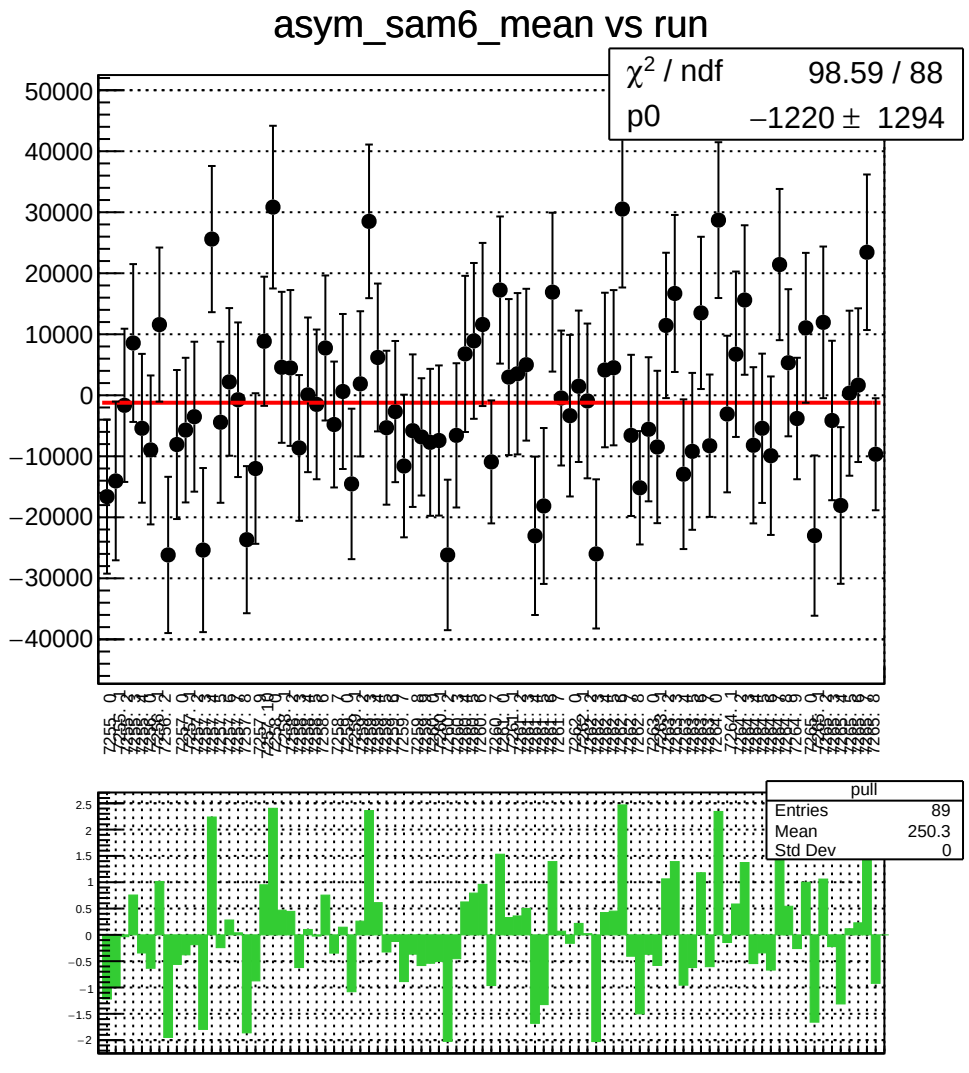

pull1D
Entries 89
Mean 0.02271
Std Dev 0.8391

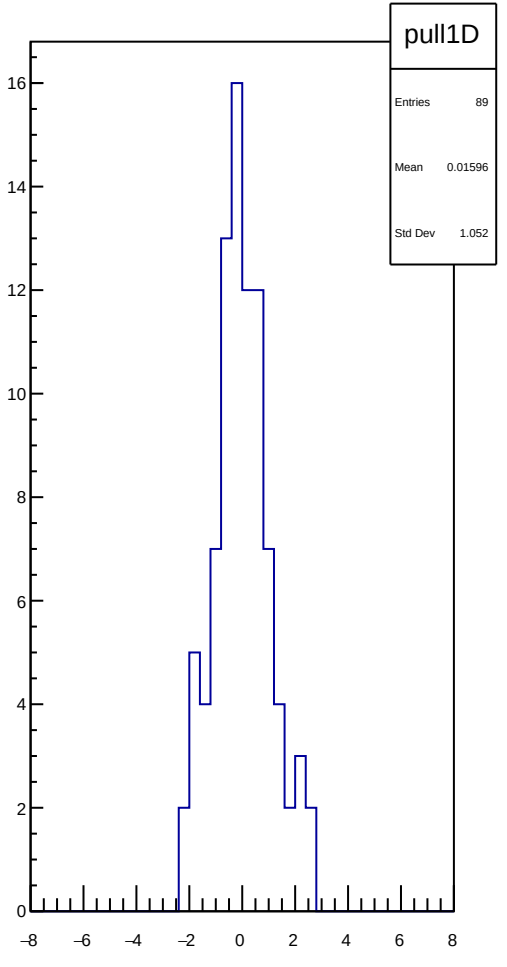

eigen_dit_asym_sam6_rms vs run
χ² / ndf 529.2 / 88
p0 180.5 ± 0.1387
190
188
186
184
182
180
178
176
174
172

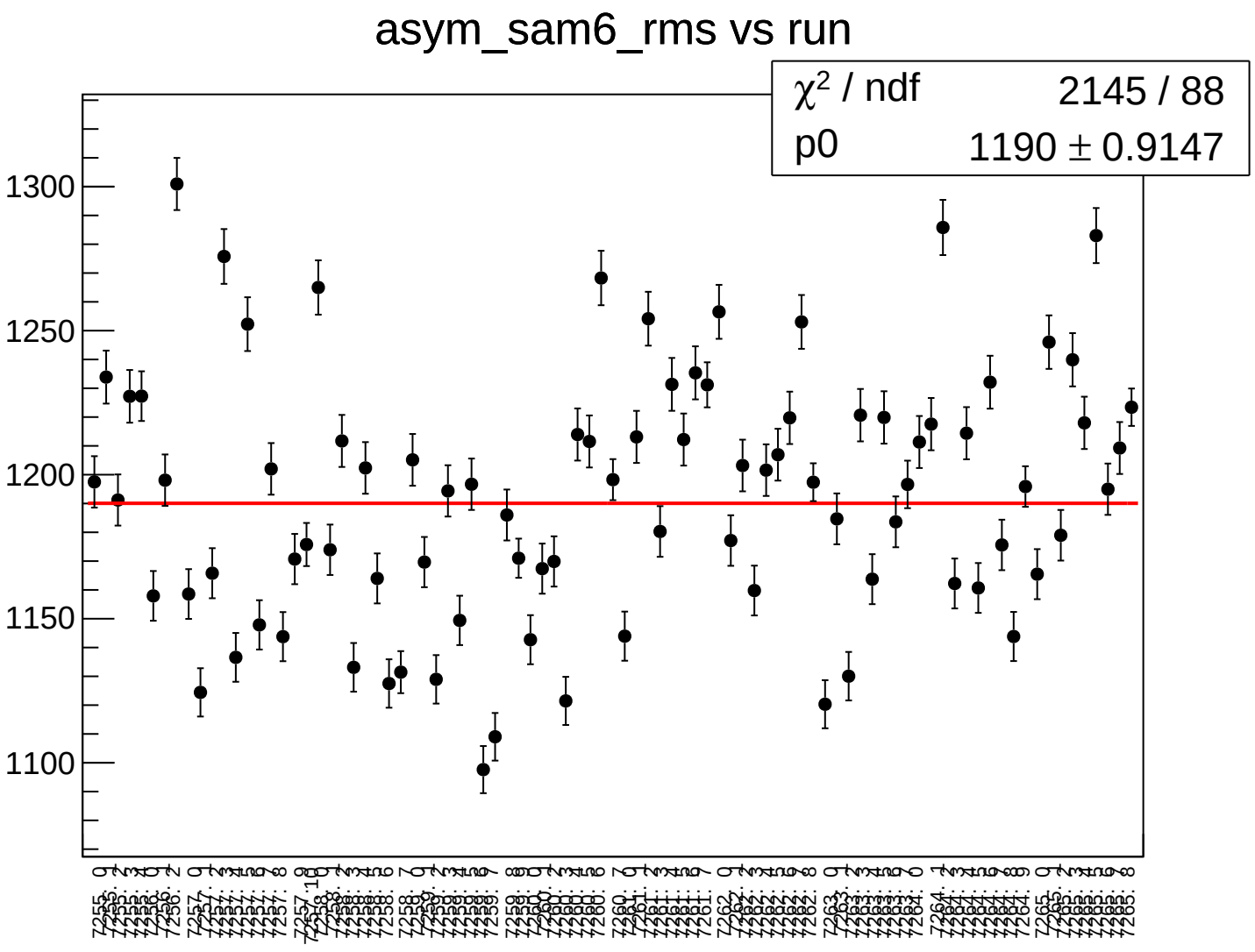

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 96.89 / 88
p0 1069 ± 1316
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 371.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

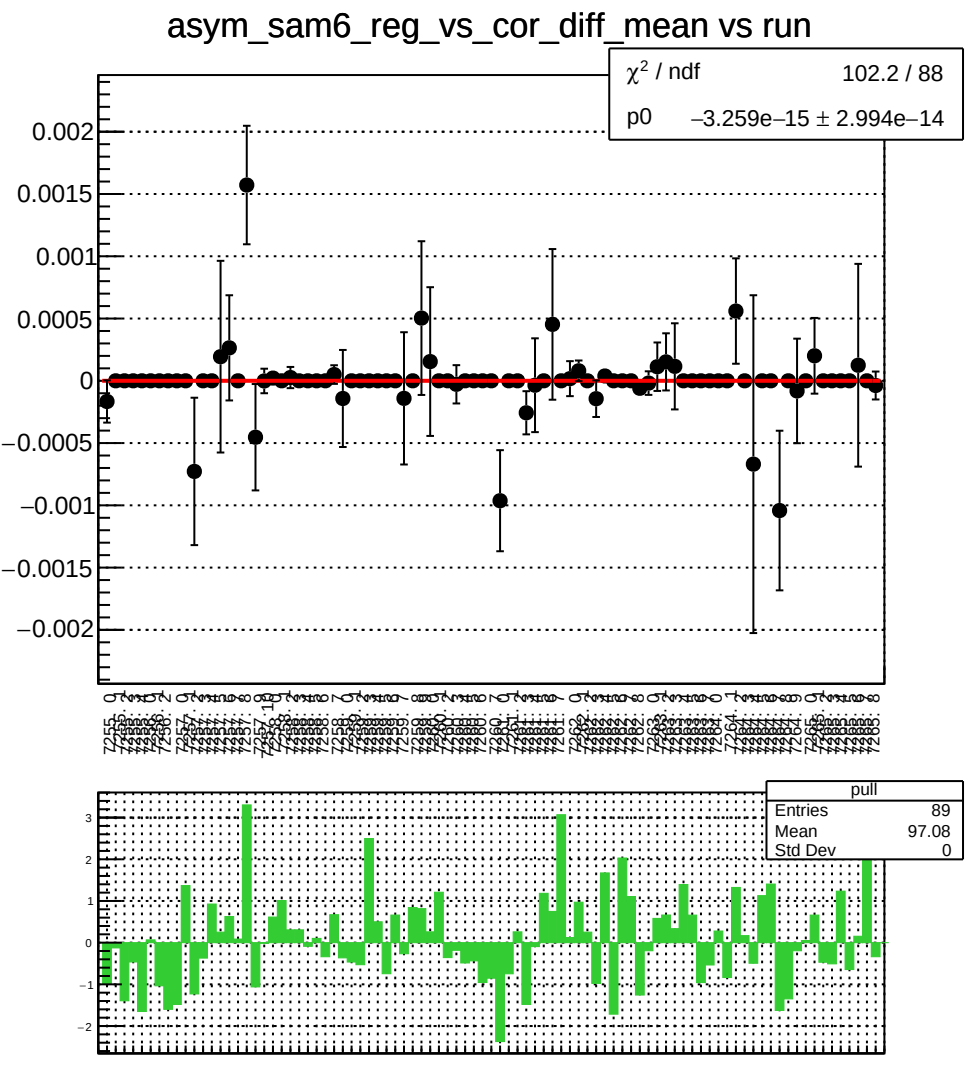

pull1D
Entries 89
Mean −0.01097
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

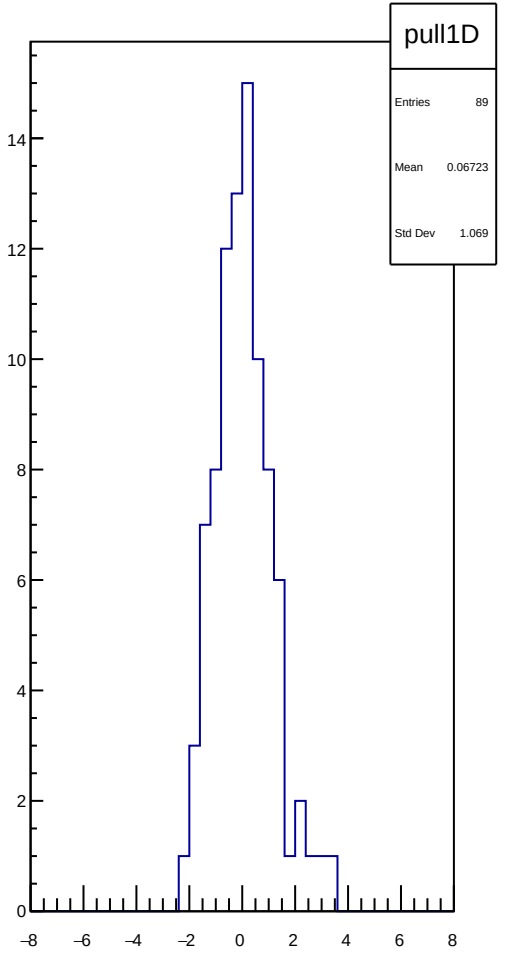

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 2184 / 88
p0 1211 ± 0.9306
1350
1300
1250
1200
1150
1100

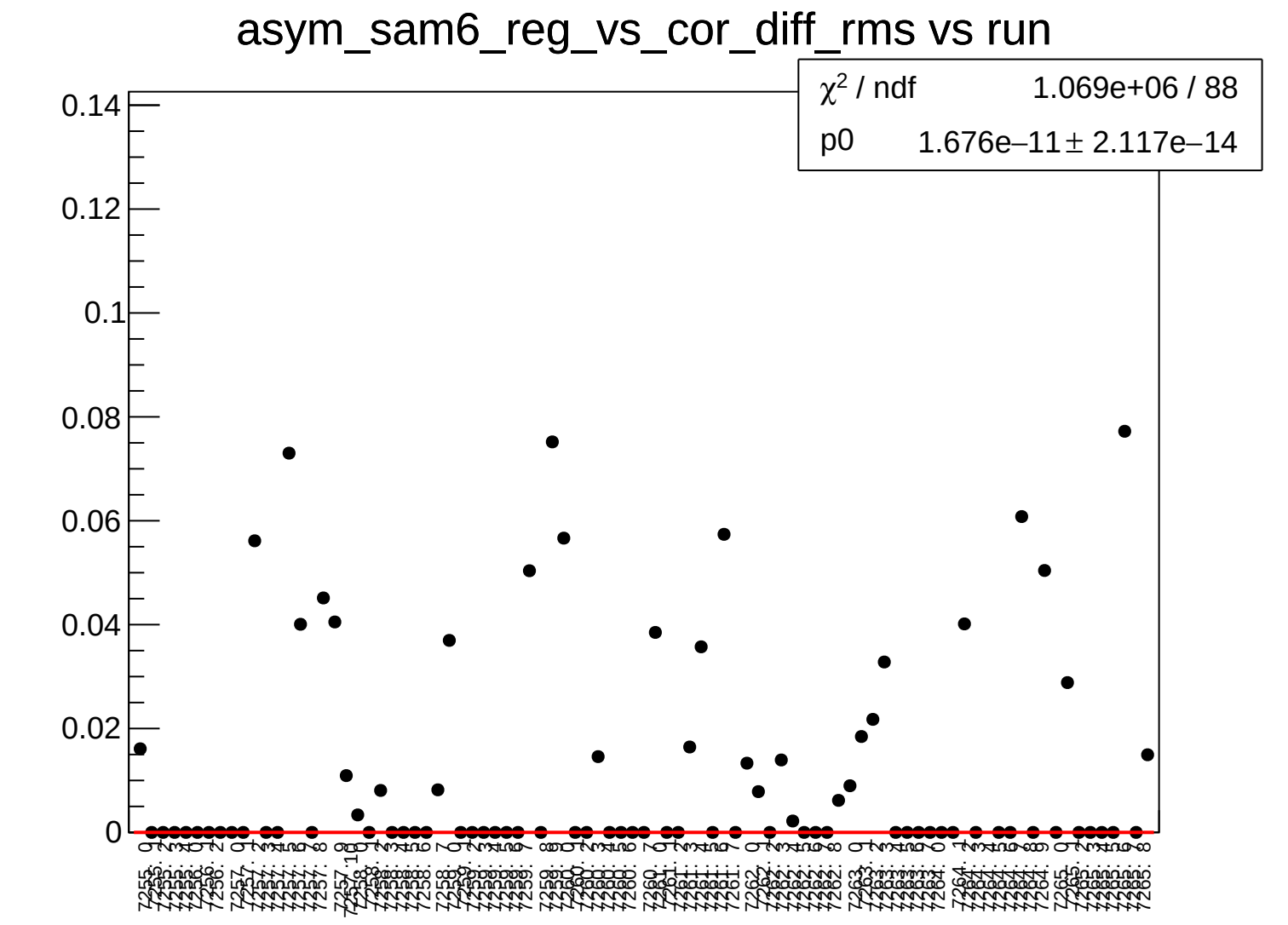

asym_sam6_mean vs run
χ² / ndf 98.59 / 88
p0 −1220 ± 1294
pull
Entries 89
Mean 250.3
Std Dev 0

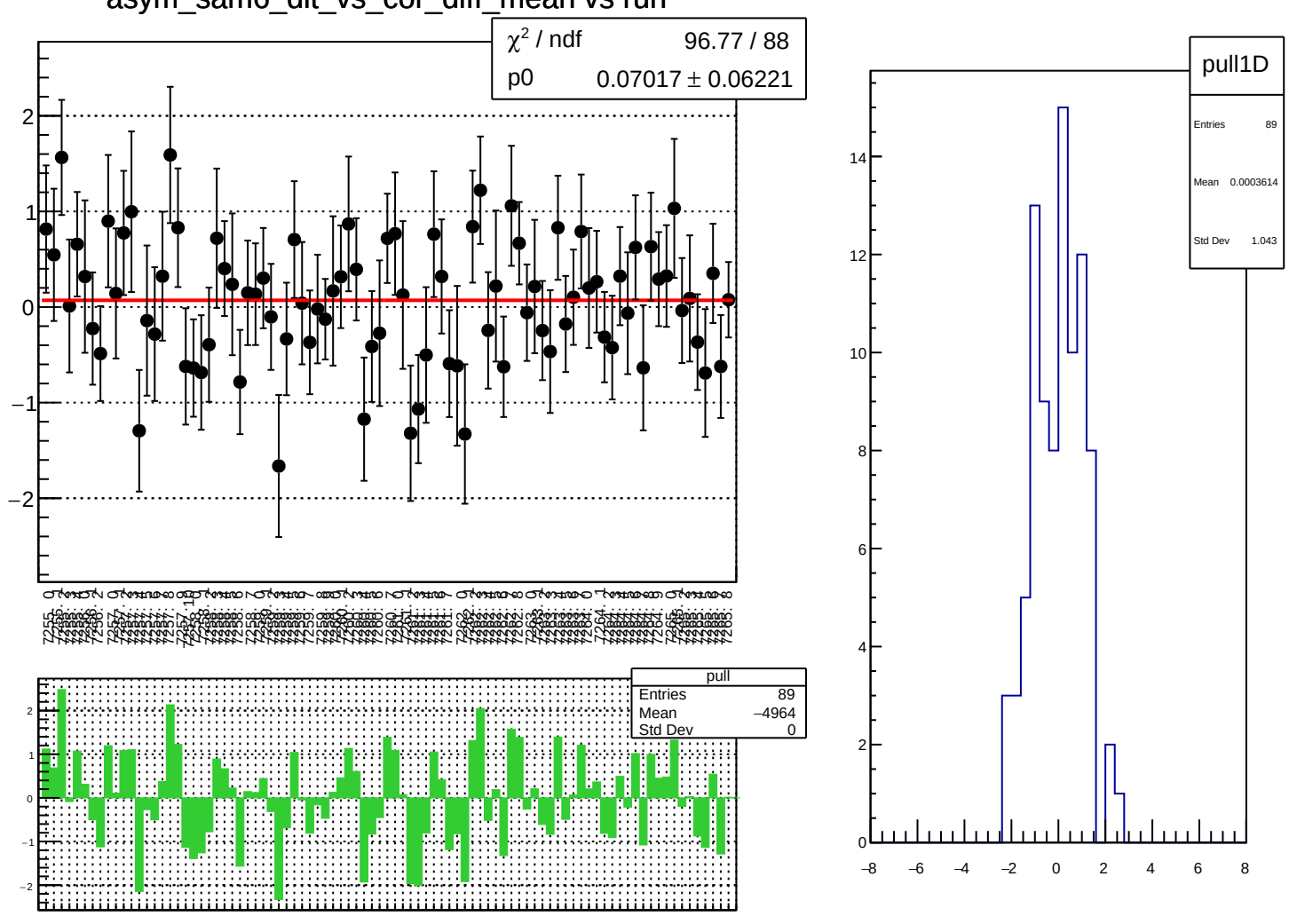

pull1D
Entries 89
Mean 0.01596
Std Dev 1.052

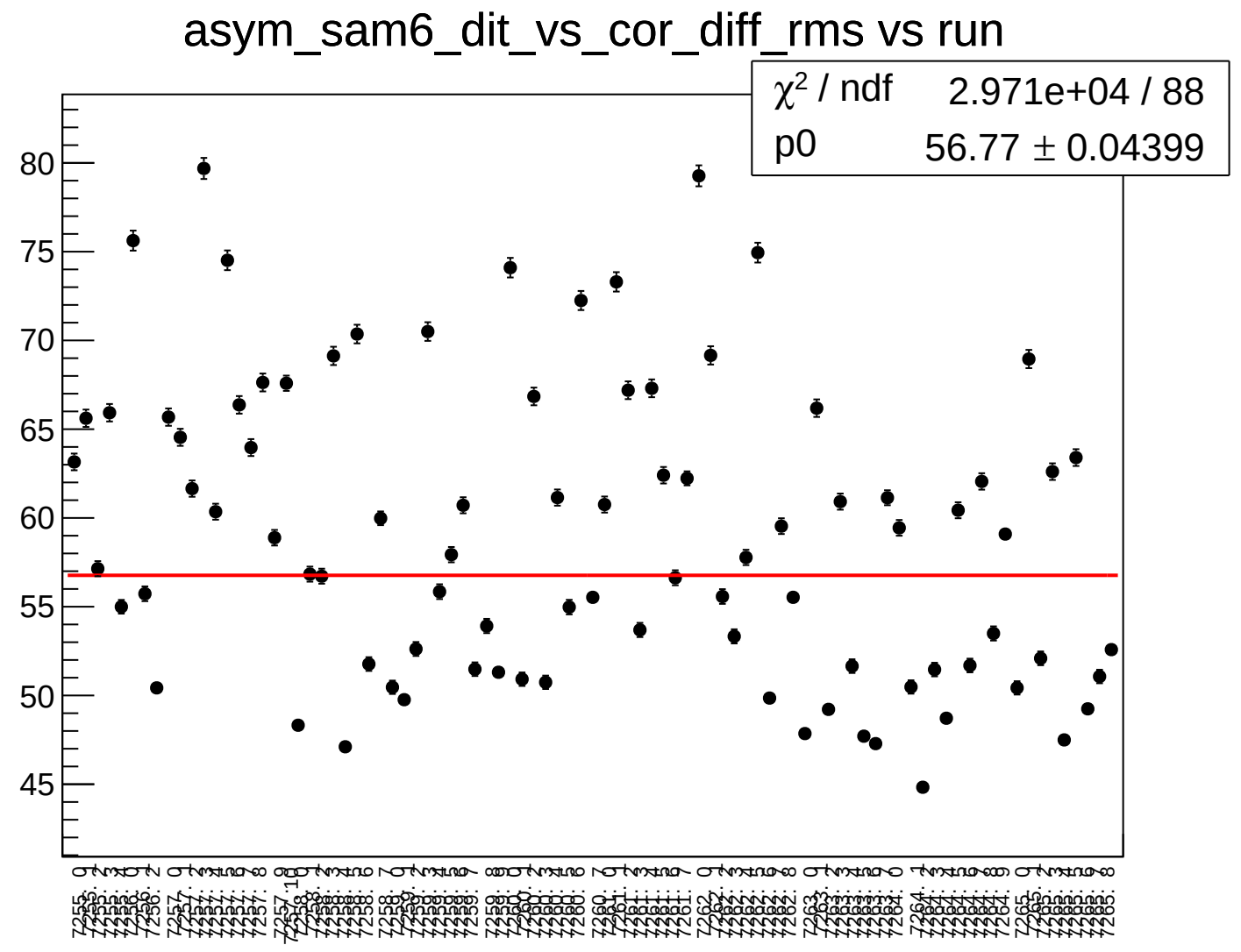

asym_sam6_rms vs run
χ² / ndf 2145 / 88
p0 1190 ± 0.9147
1300
1250
1200
1150
1100

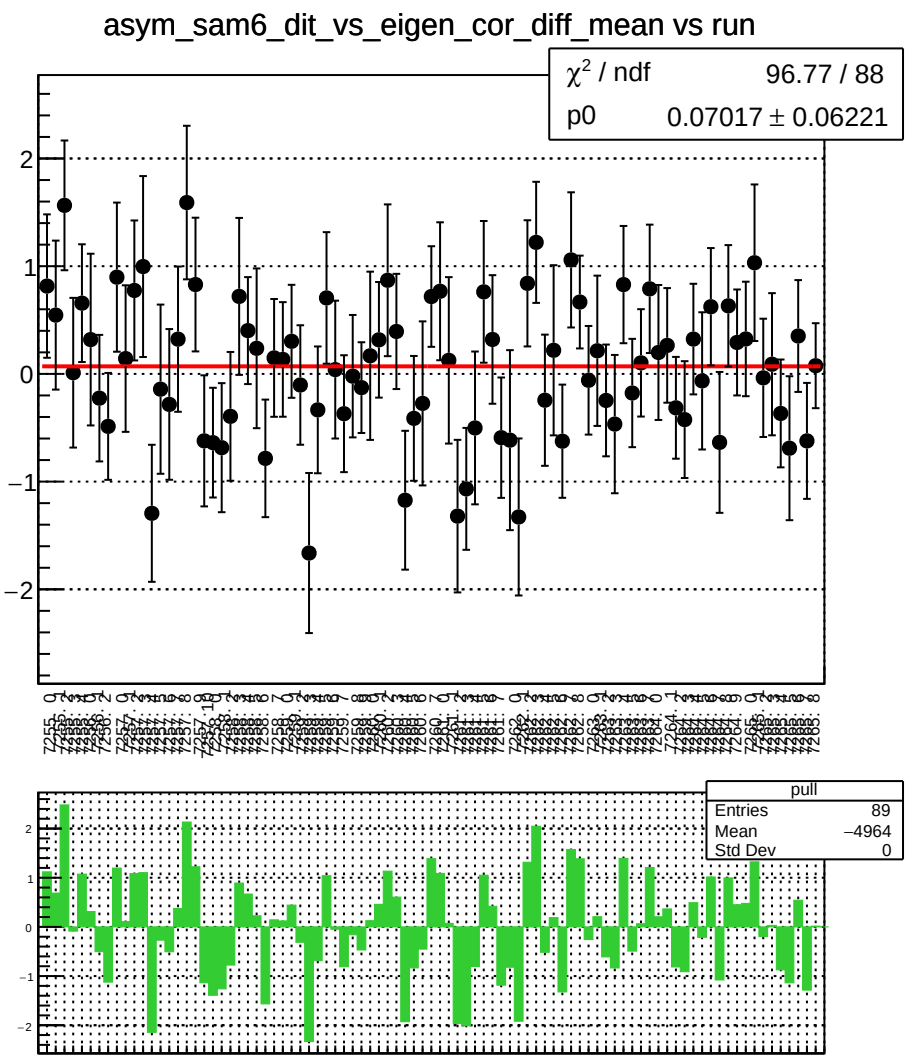

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 88
p0 −3.259e−15 ± 2.994e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 89
Mean 97.08
Std Dev 0
3
2
1
0
−1
−2

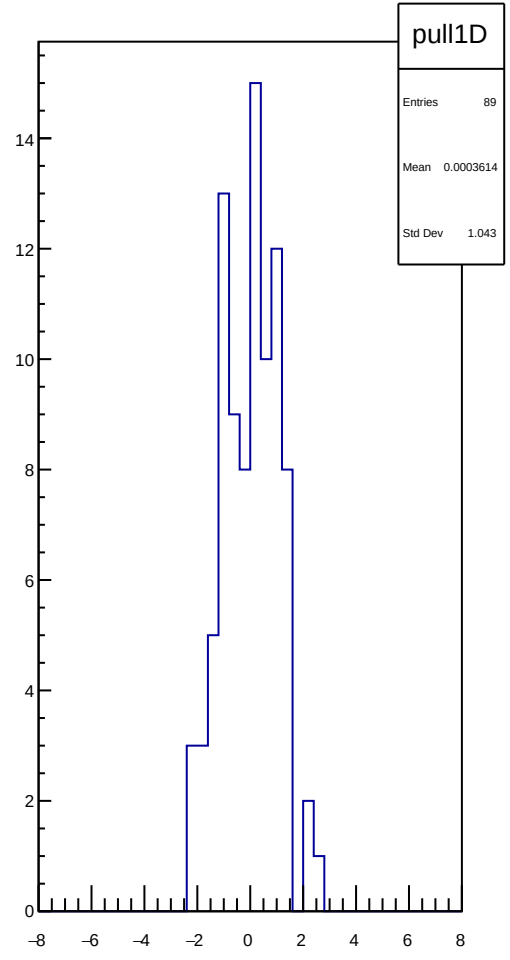

pull1D
Entries 89
Mean 0.06723
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

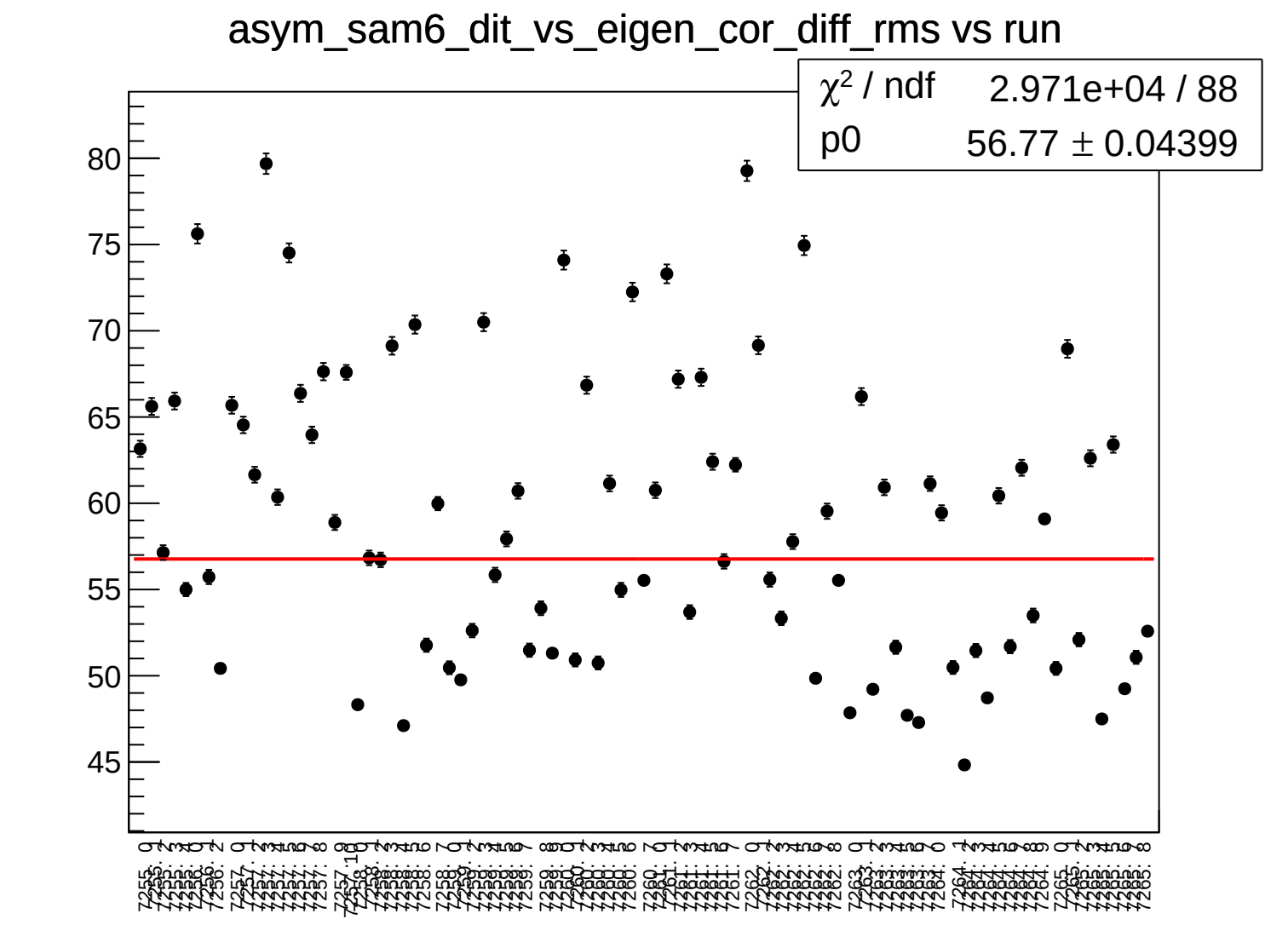

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.069e+06 / 88
p0 1.676e−11 ± 2.117e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

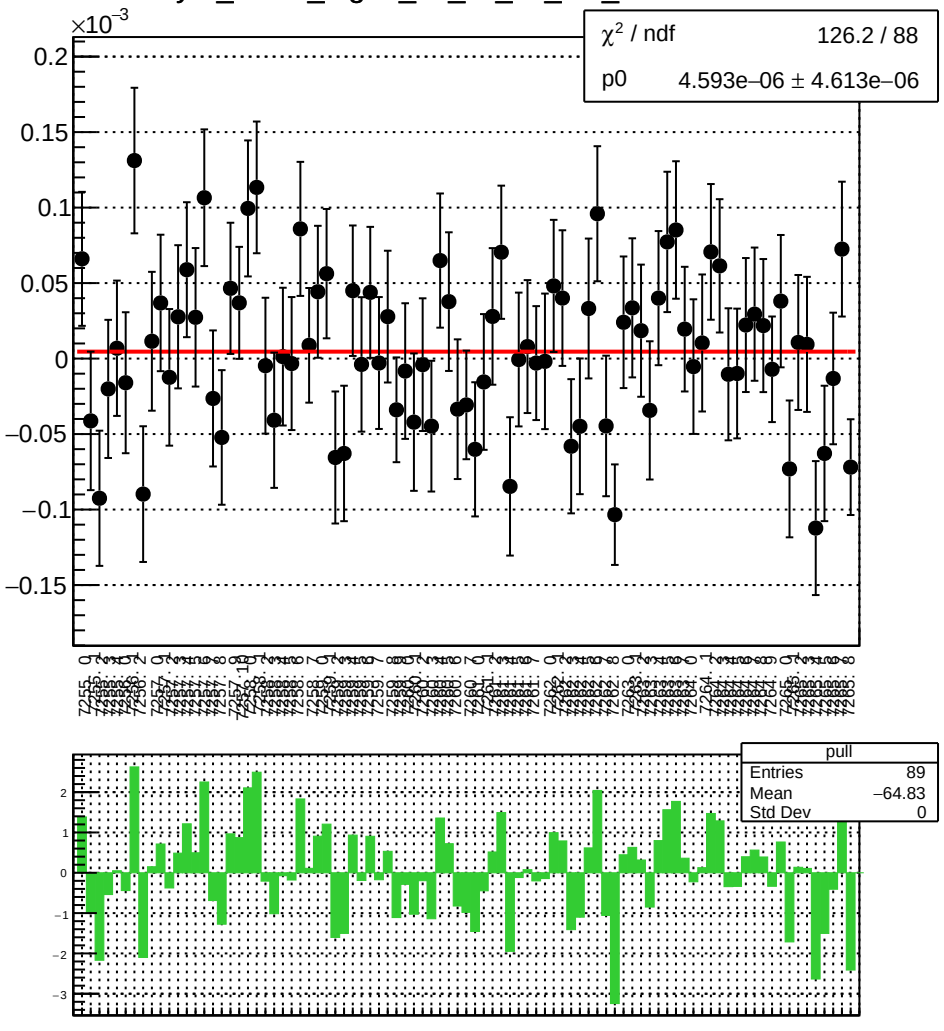

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 96.77 / 88
p0 0.07017 ± 0.06221
pull
Entries 89
Mean −4964
Std Dev 0
pull1D
Entries 89
Mean 0.0003614
Std Dev 1.043

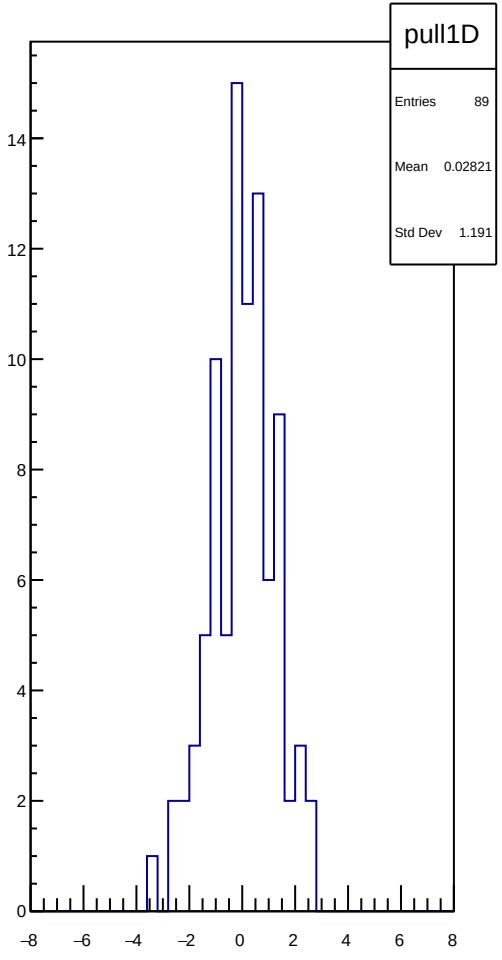

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 2.971e+04 / 88
p0 56.77 ± 0.04399
80
75
70
65
60
55
50
45

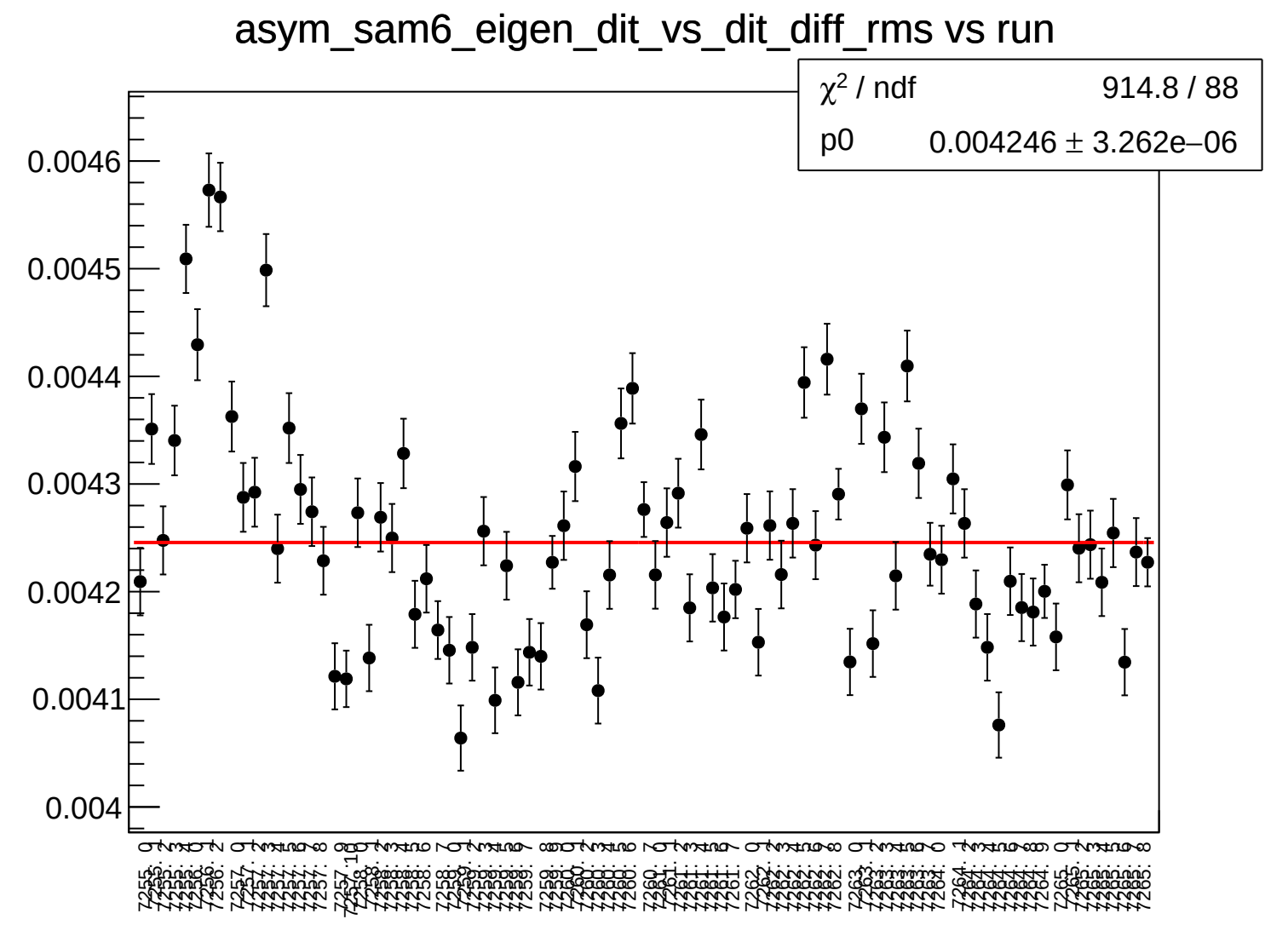

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.77 / 88
p0 0.07017 ± 0.06221
pull
Entries 89
Mean −4964
Std Dev 0

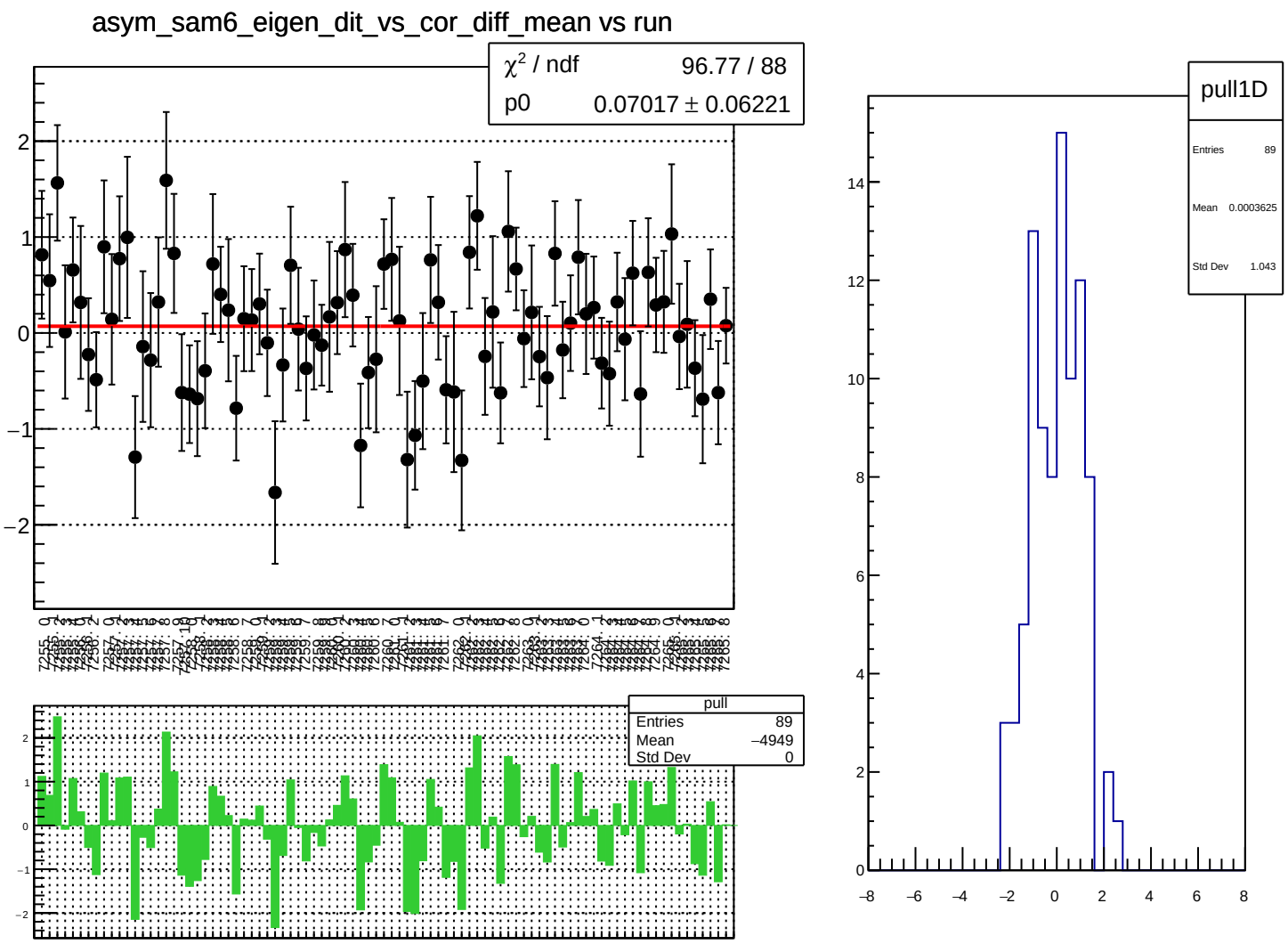

pull1D
Entries 89
Mean 0.0003614
Std Dev 1.043

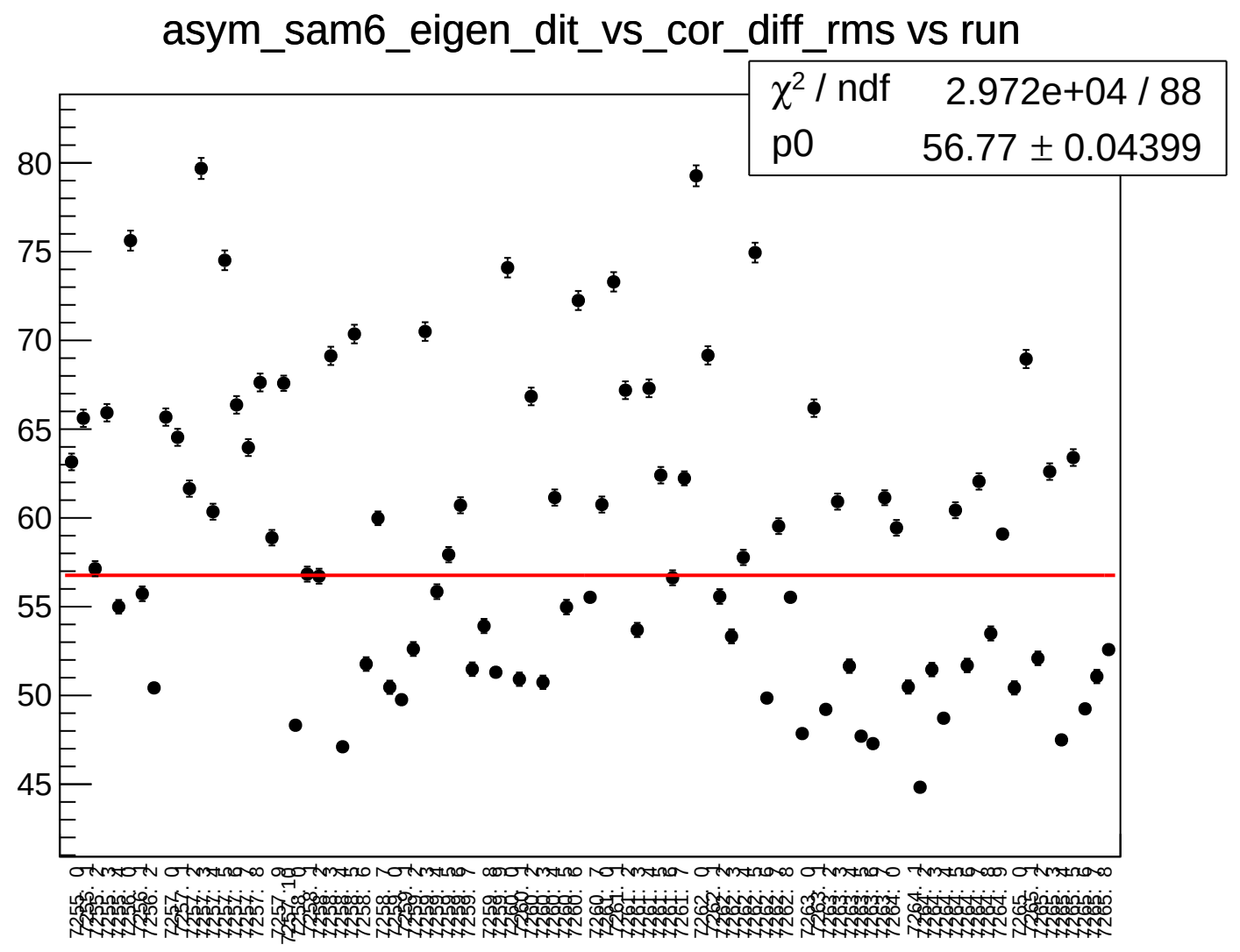

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.971e+04 / 88
p0 56.77 ± 0.04399
80
75
70
65
60
55
50
45

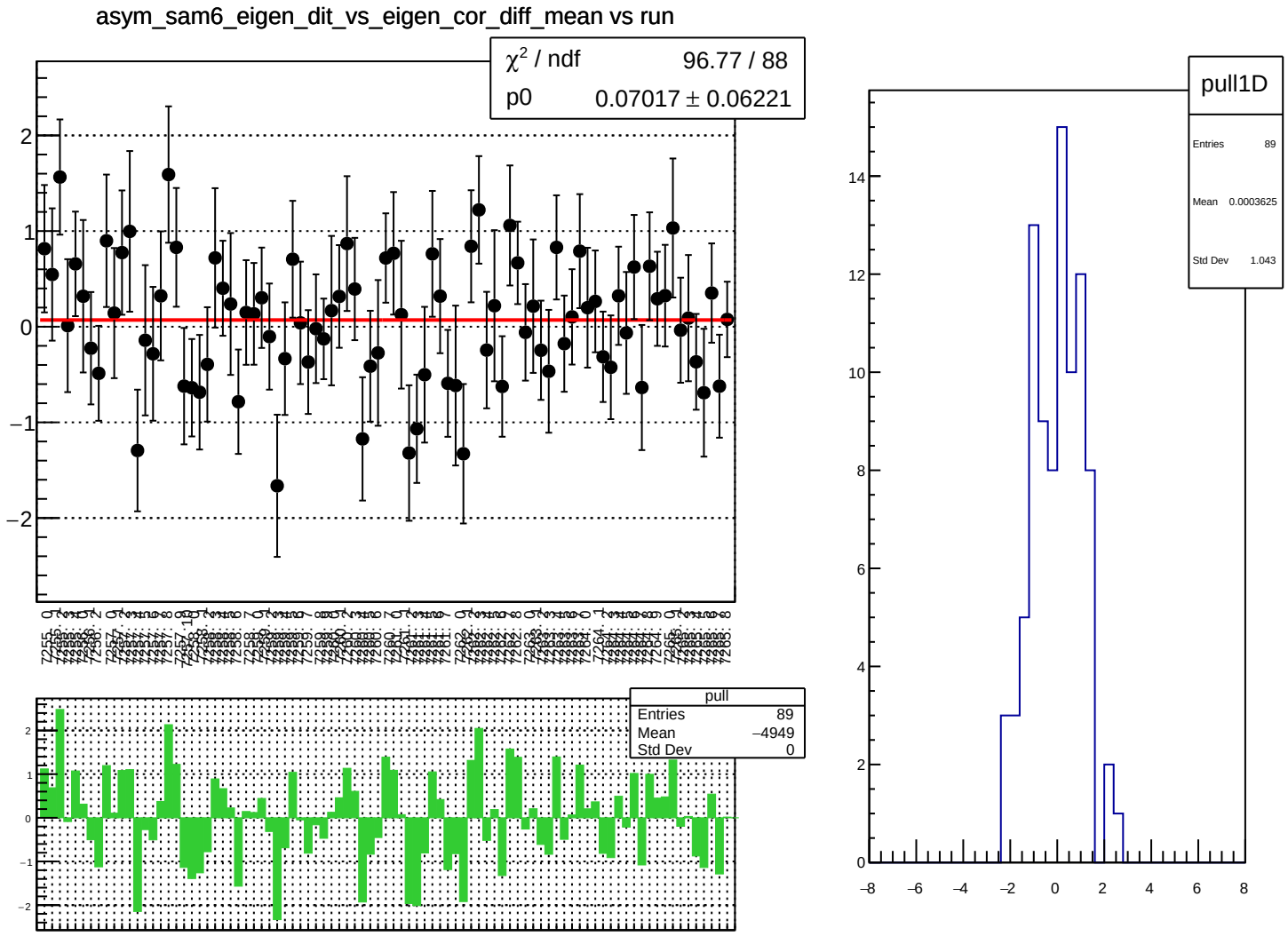

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 126.2 / 88
p0 4.593e−06 ± 4.613e−06
pull
Entries 89
Mean −64.83
Std Dev 0

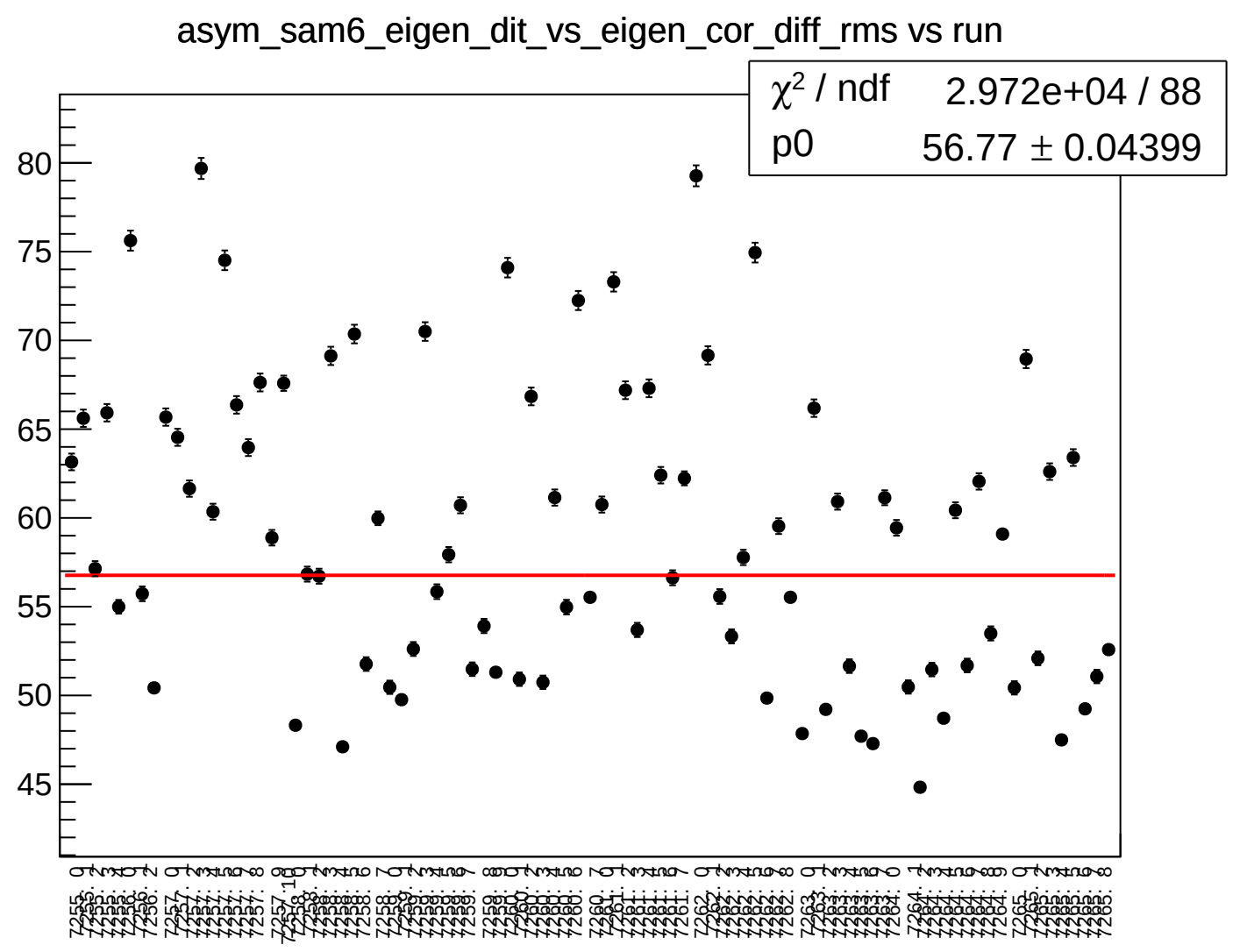

pull1D
Entries 89
Mean 0.02821
Std Dev 1.191

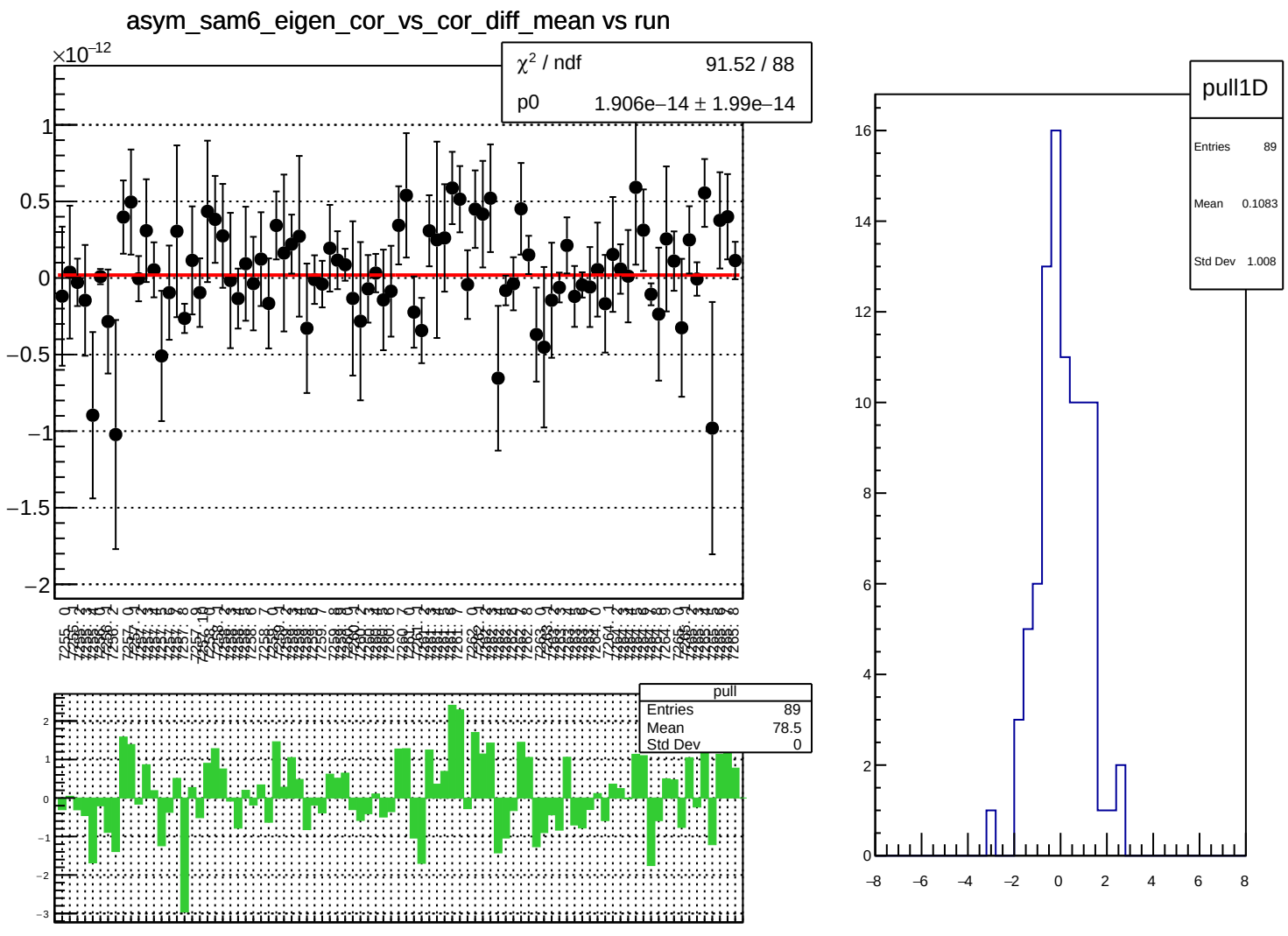

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 914.8 / 88
p0 0.004246 ± 3.262e−06
0.0046
0.0045
0.0044
0.0043
0.0042
0.0041
0.004

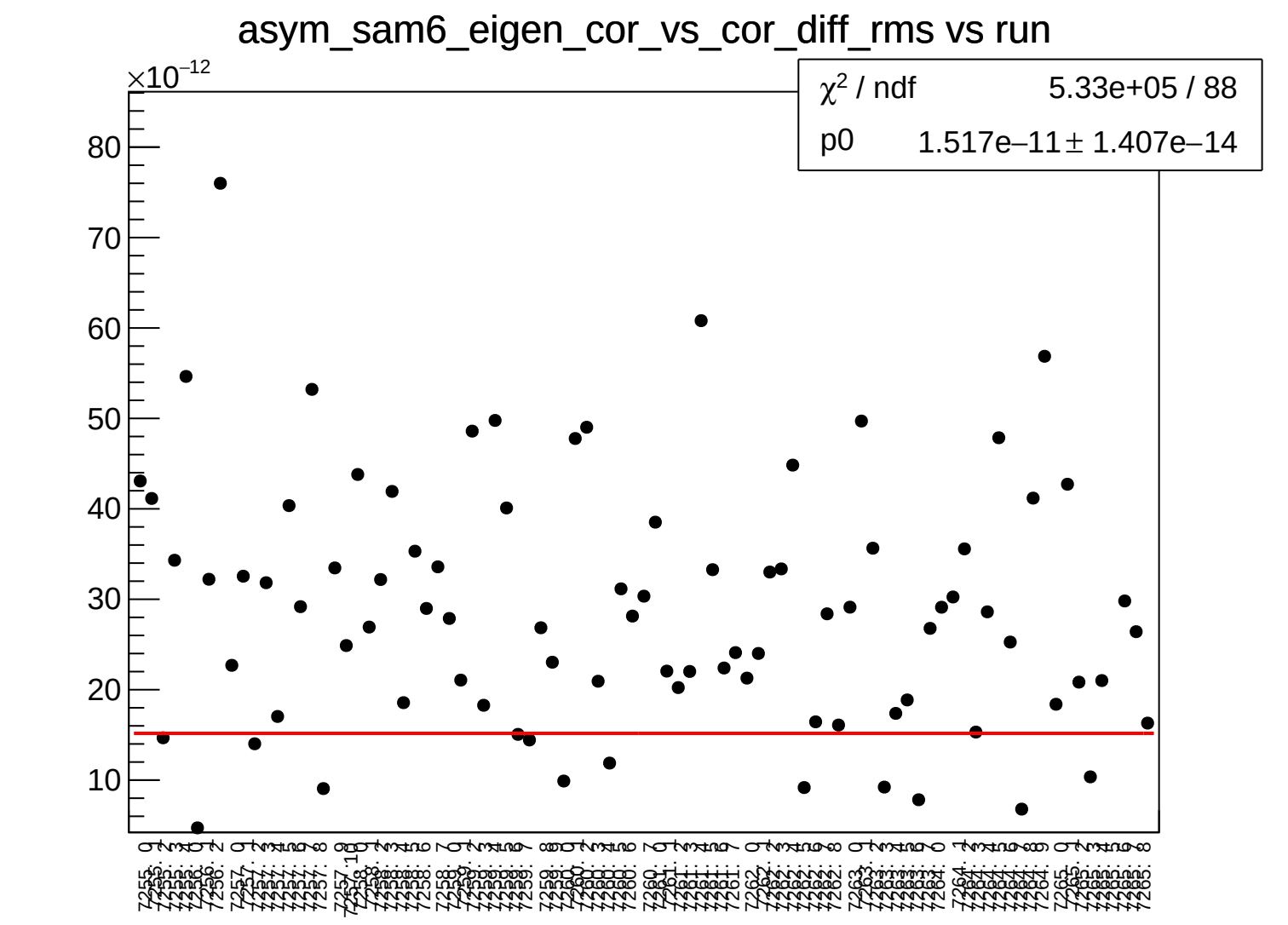

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.77 / 88
p0 0.07017 ± 0.06221
pull
Entries 89
Mean −4949
Std Dev 0
pull1D
Entries 89
Mean 0.0003625
Std Dev 1.043

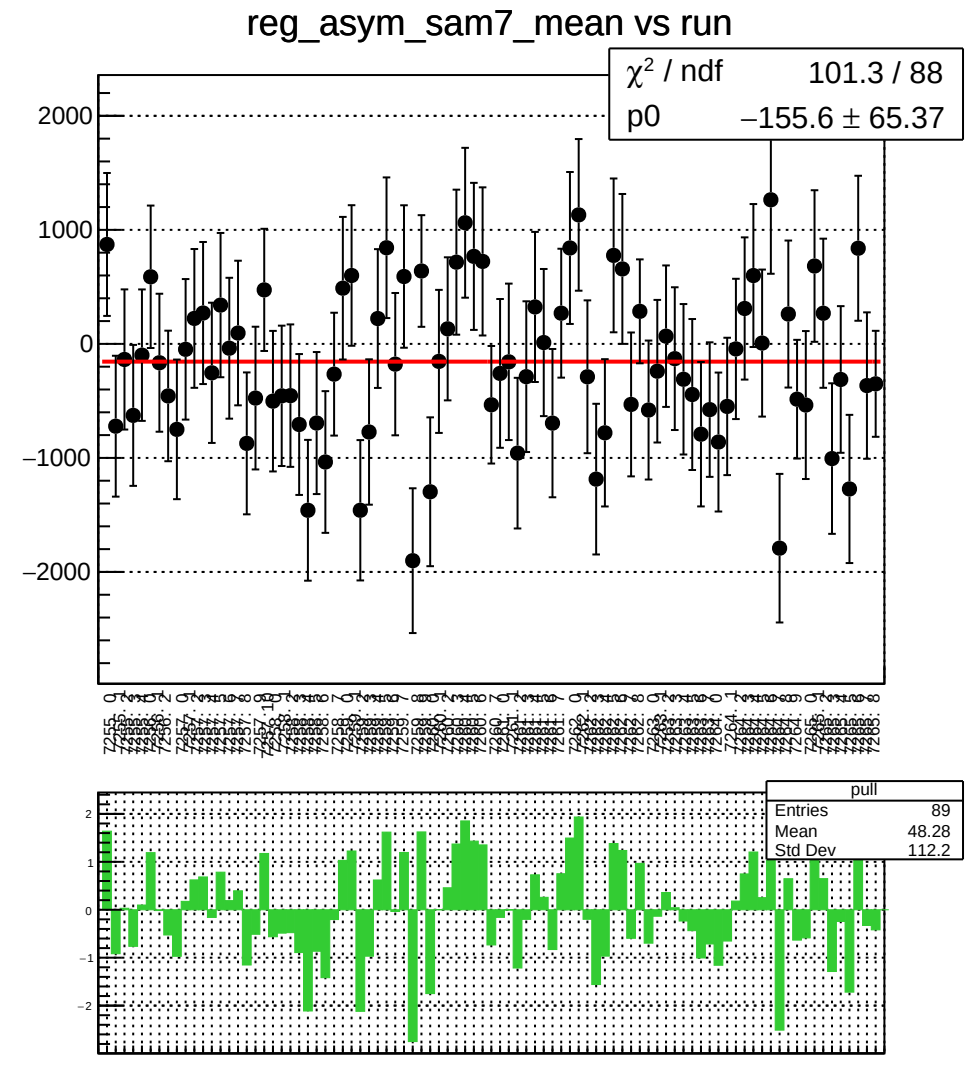

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.972e+04 / 88
p0 56.77 ± 0.04399
80
75
70
65
60
55
50
45

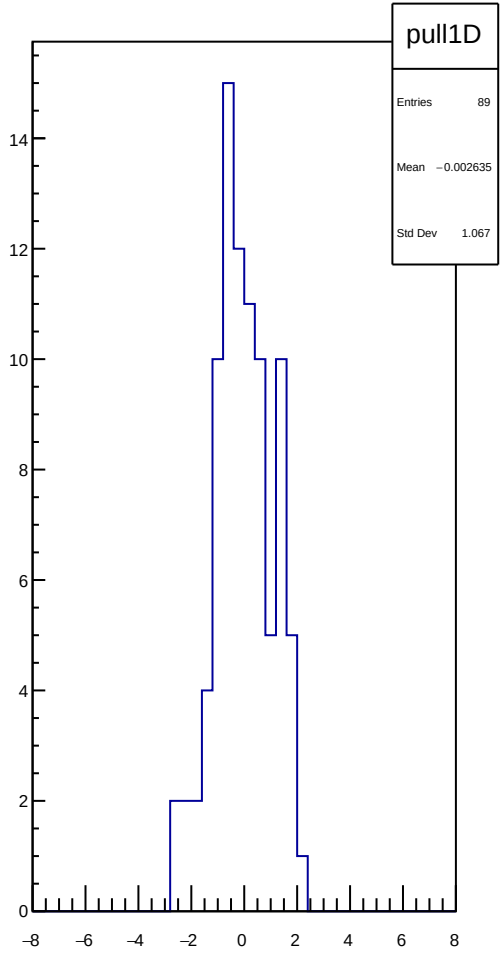

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.77 / 88
p0 0.07017 ± 0.06221
pull
Entries 89
Mean −4949
Std Dev 0
pull1D
Entries 89
Mean 0.0003625
Std Dev 1.043

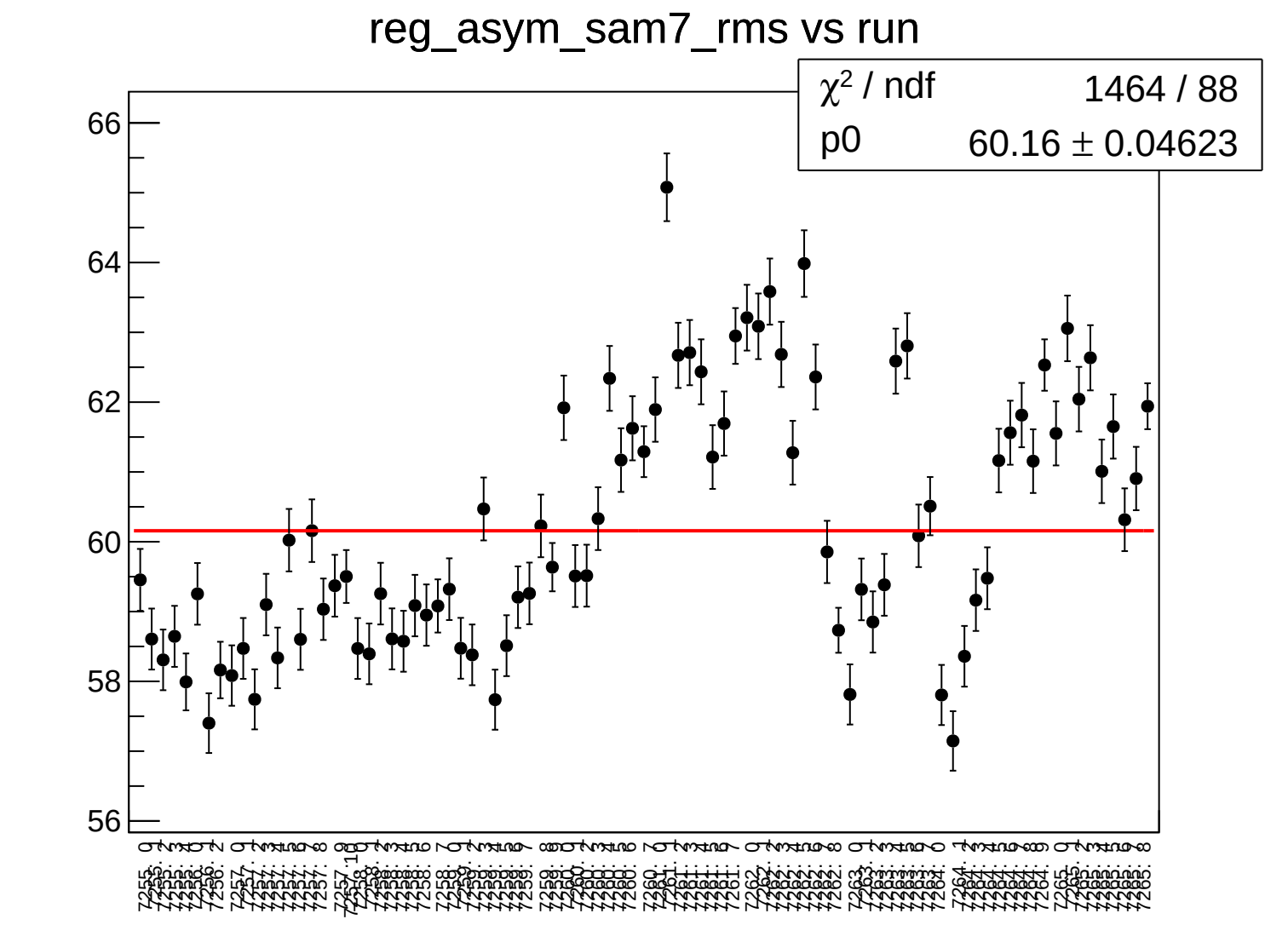

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.972e+04 / 88
p0 56.77 ± 0.04399
80
75
70
65
60
55
50
45

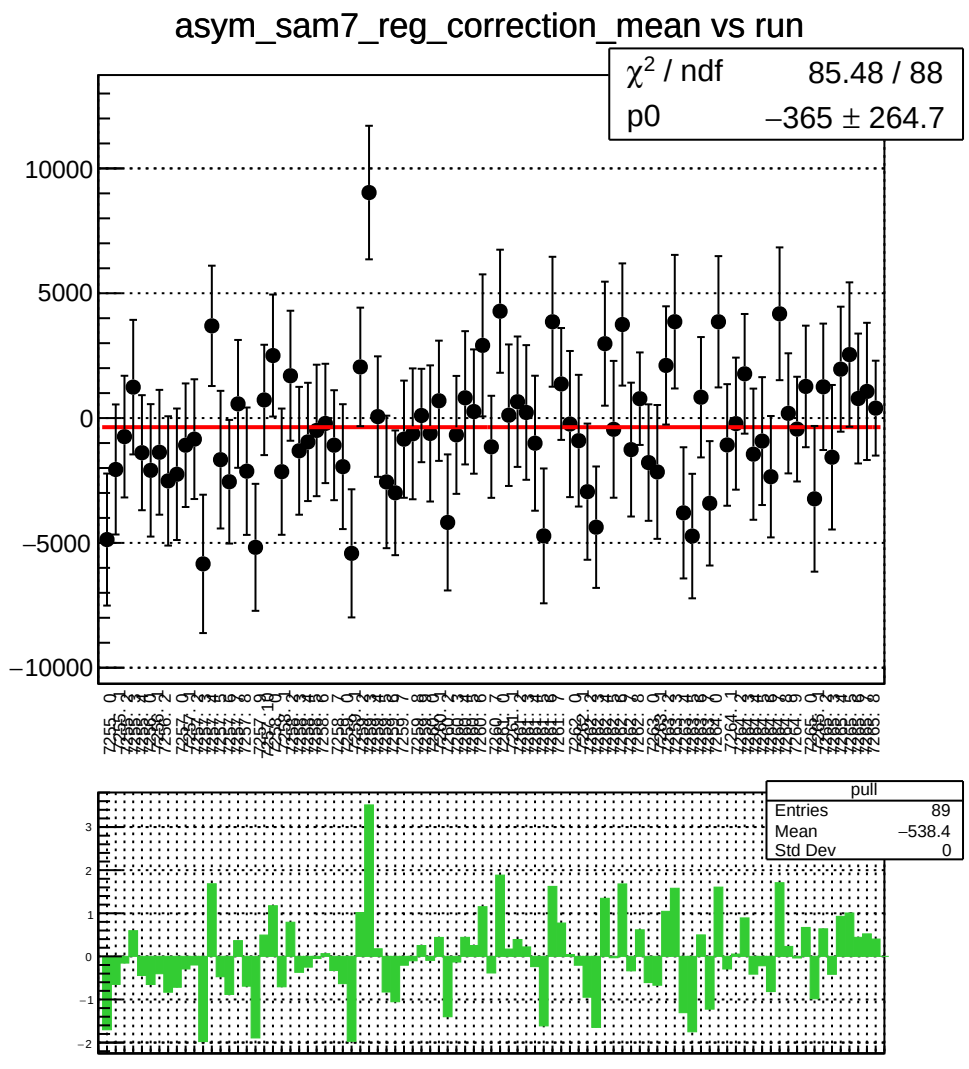

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.52 / 88
p0 1.906e−14 ± 1.99e−14
pull
Entries 89
Mean 78.5
Std Dev 0
pull1D
Entries 89
Mean 0.1083
Std Dev 1.008

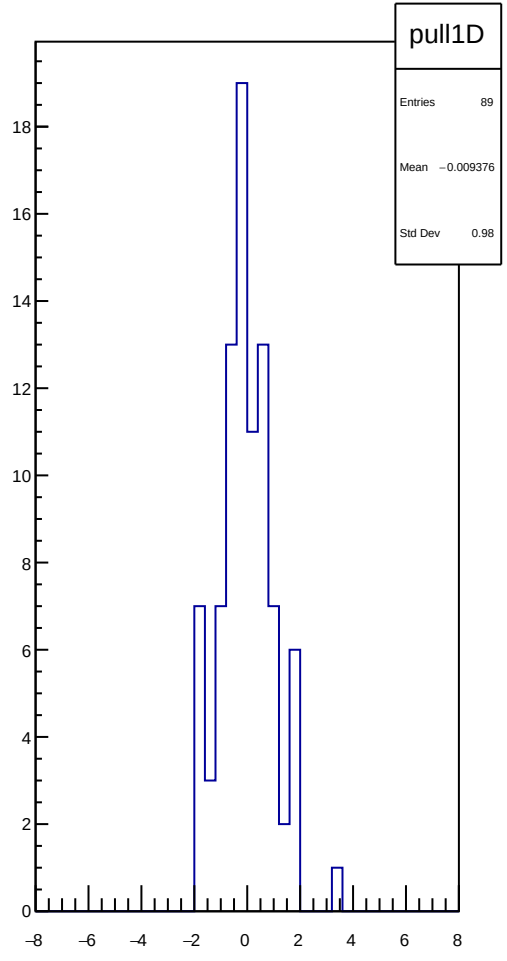

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.33e+05 / 88
p0 1.517e−11 ± 1.407e−14
80
70
60
50
40
30
20
10

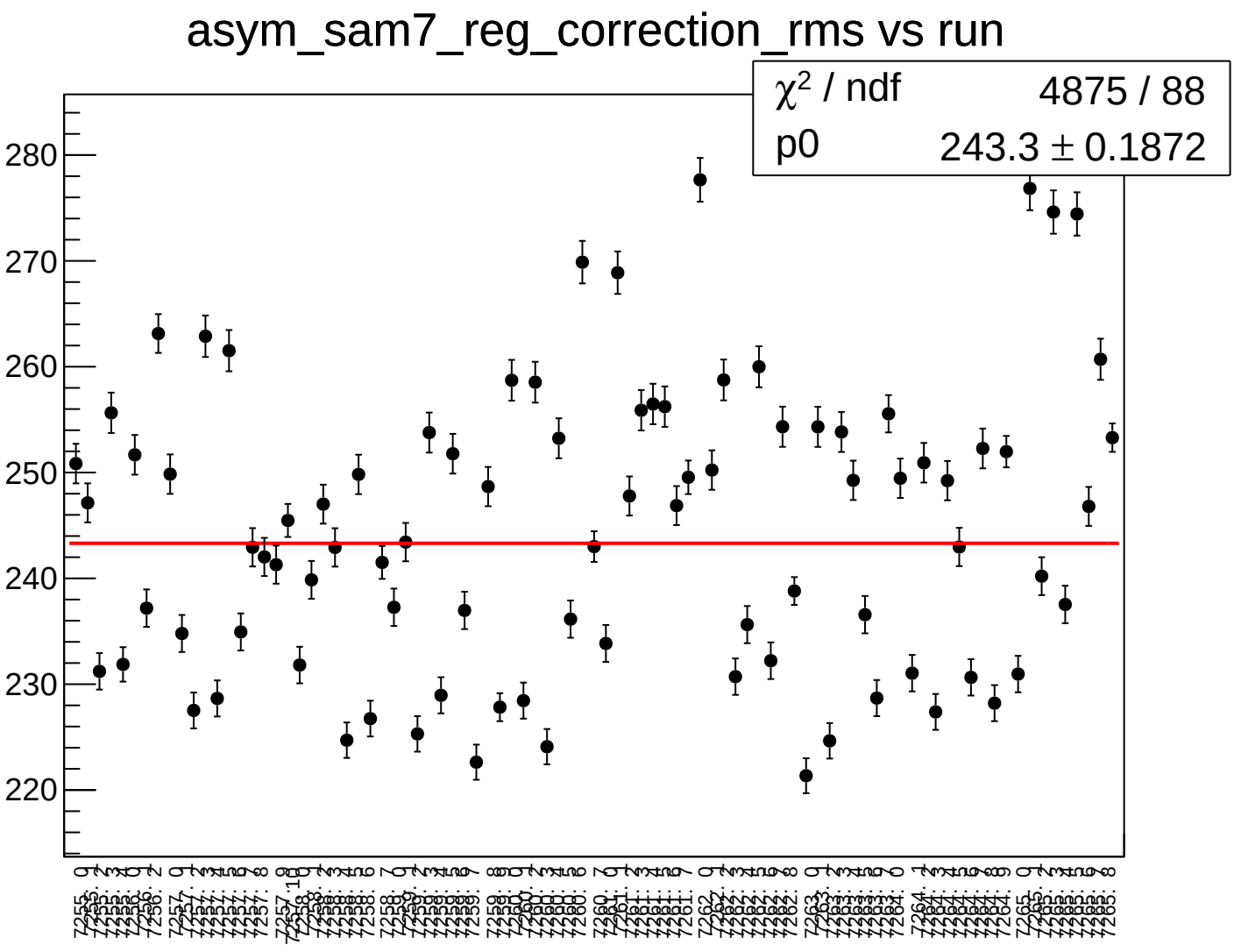

reg_asym_sam7_mean vs run
χ² / ndf 101.3 / 88
p0 −155.6 ± 65.37
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 48.28
Std Dev 112.2
2
1
0
−1
−2

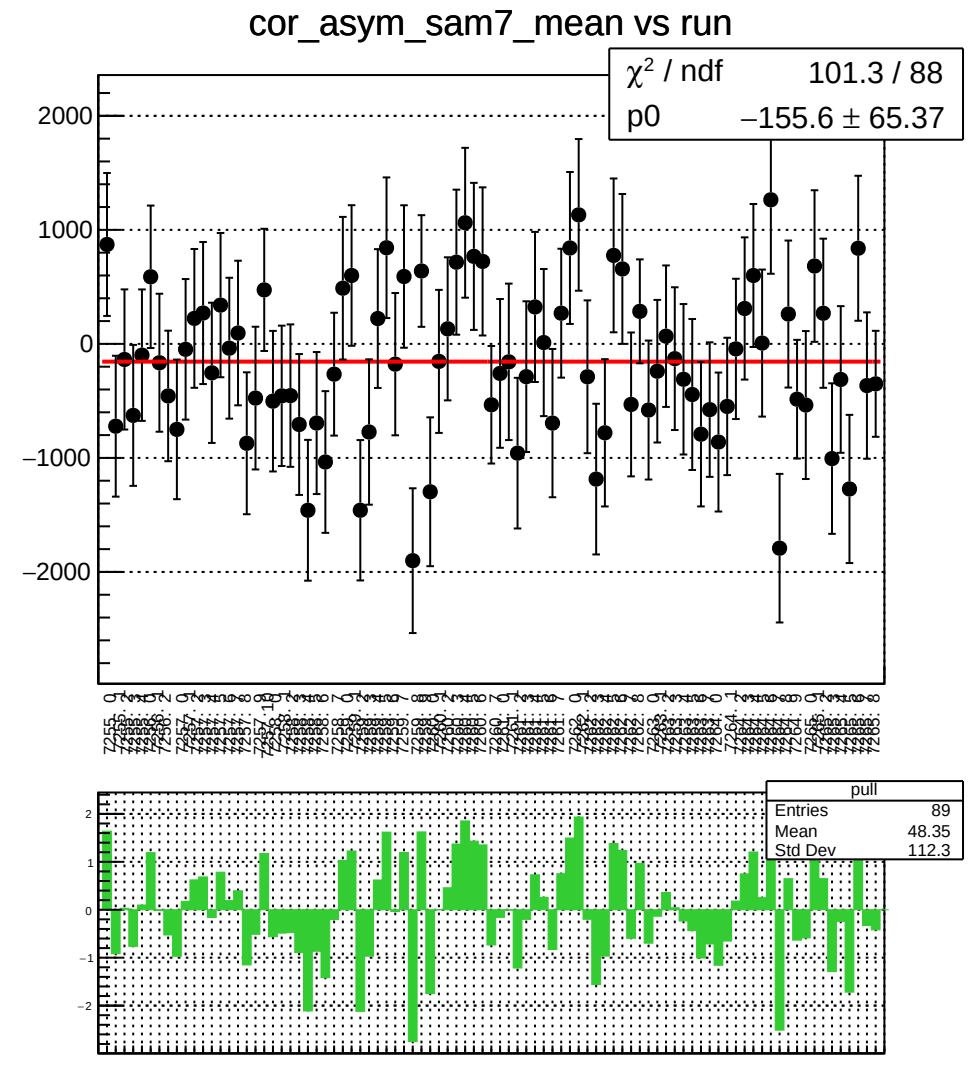

pull1D
Entries 89
Mean −0.002635
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

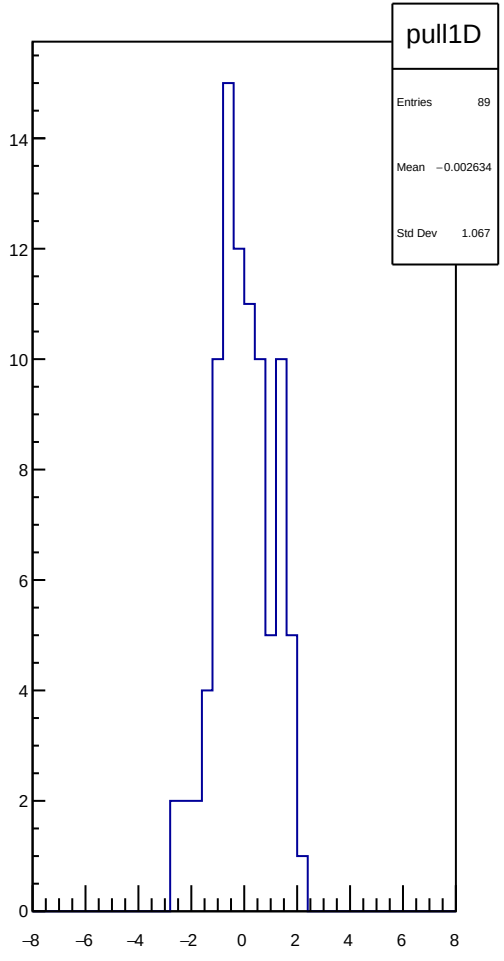

reg_asym_sam7_rms vs run
χ² / ndf 1464 / 88
p0 60.16 ± 0.04623
66
64
62
60
58
56

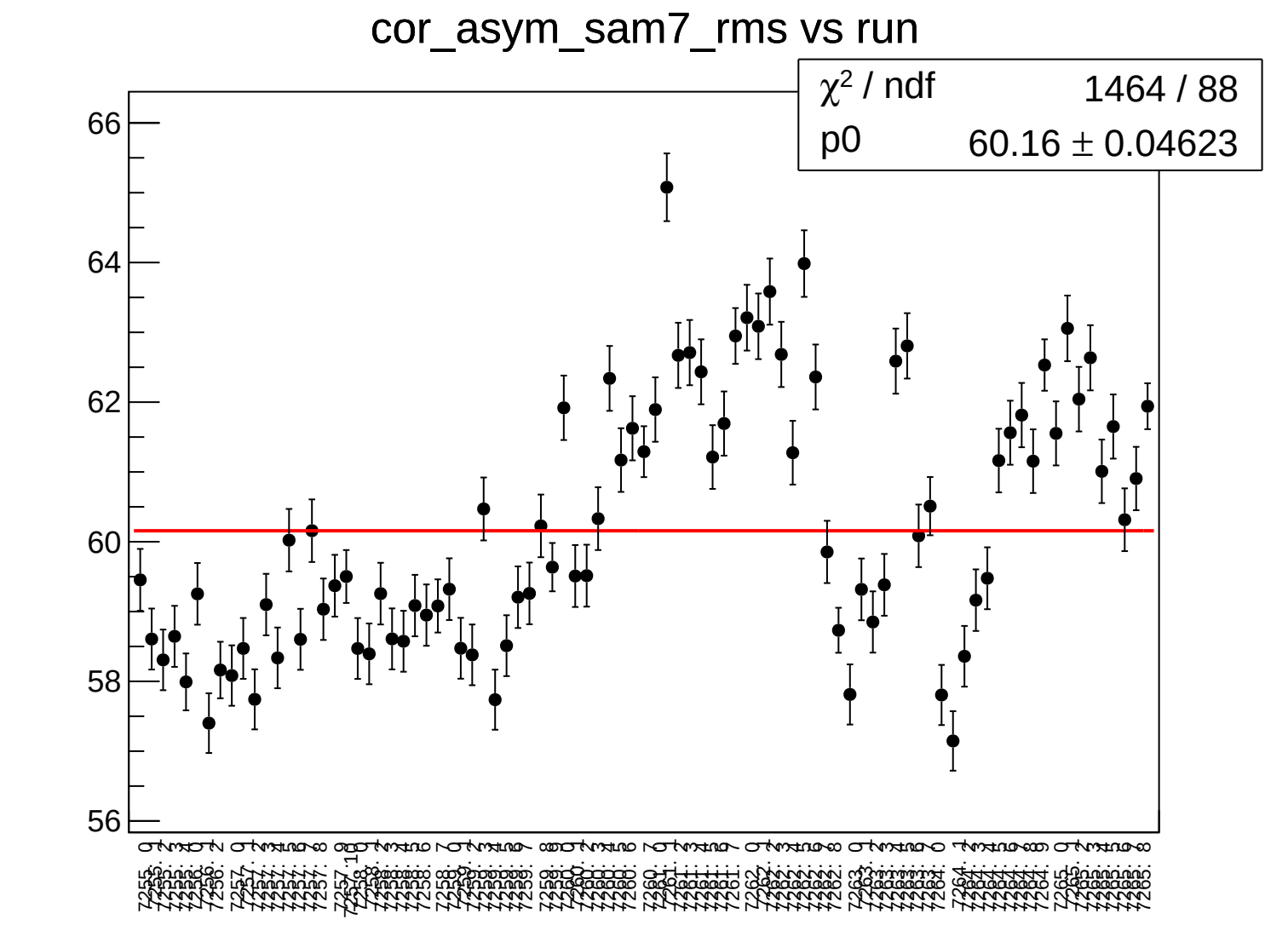

asym_sam7_reg_correction_mean vs run
χ² / ndf 85.48 / 88
p0 −365 ± 264.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −538.4
Std Dev 0
3
2
1
0
−1
−2

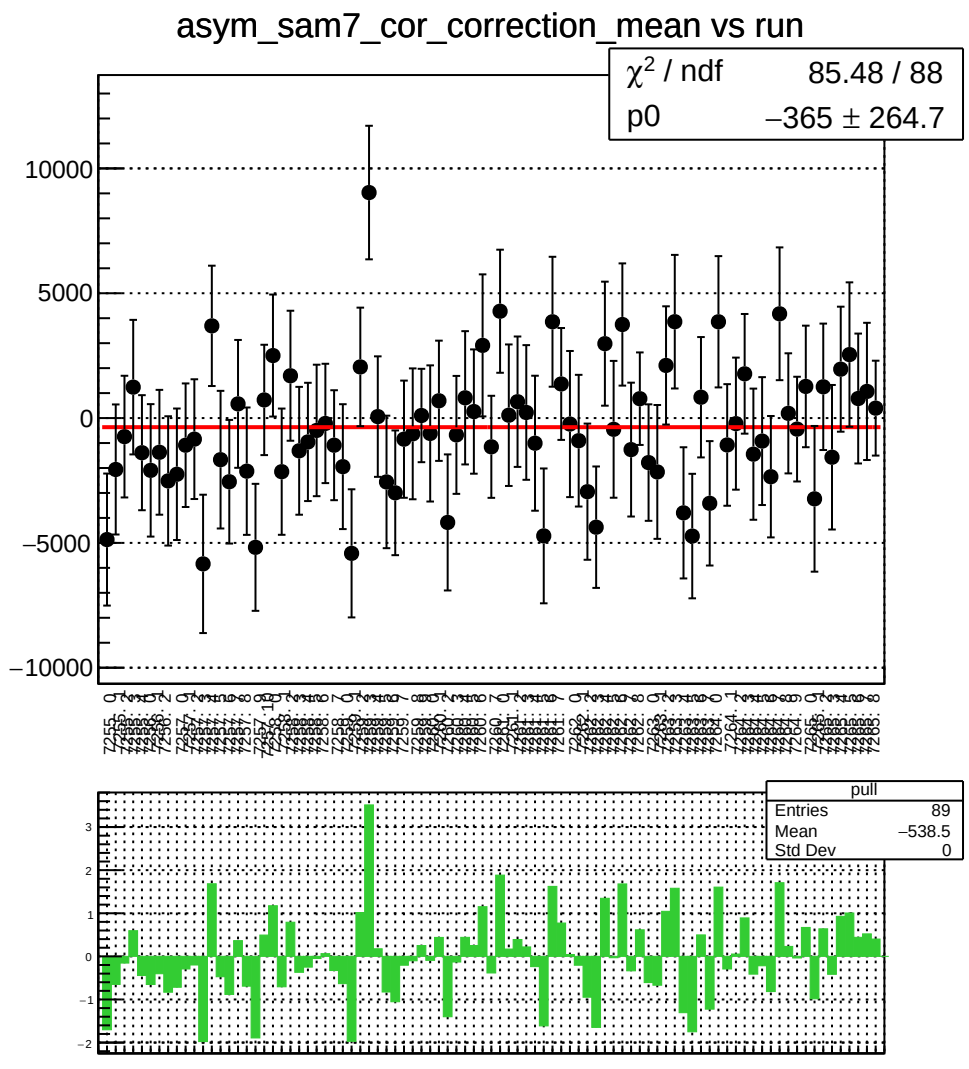

pull1D
Entries 89
Mean −0.009376
Std Dev 0.98
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

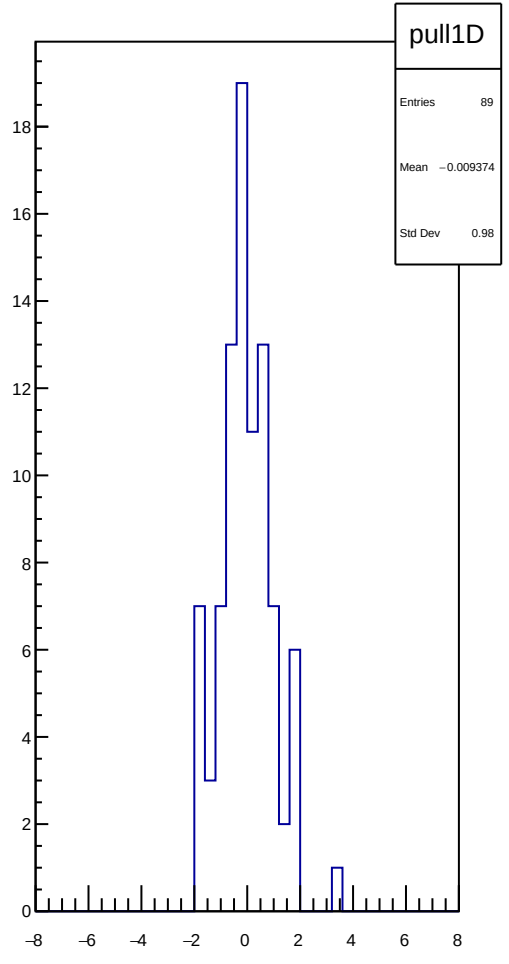

asym_sam7_reg_correction_rms vs run
χ² / ndf 4875 / 88
p0 243.3 ± 0.1872
280
270
260
250
240
230
220

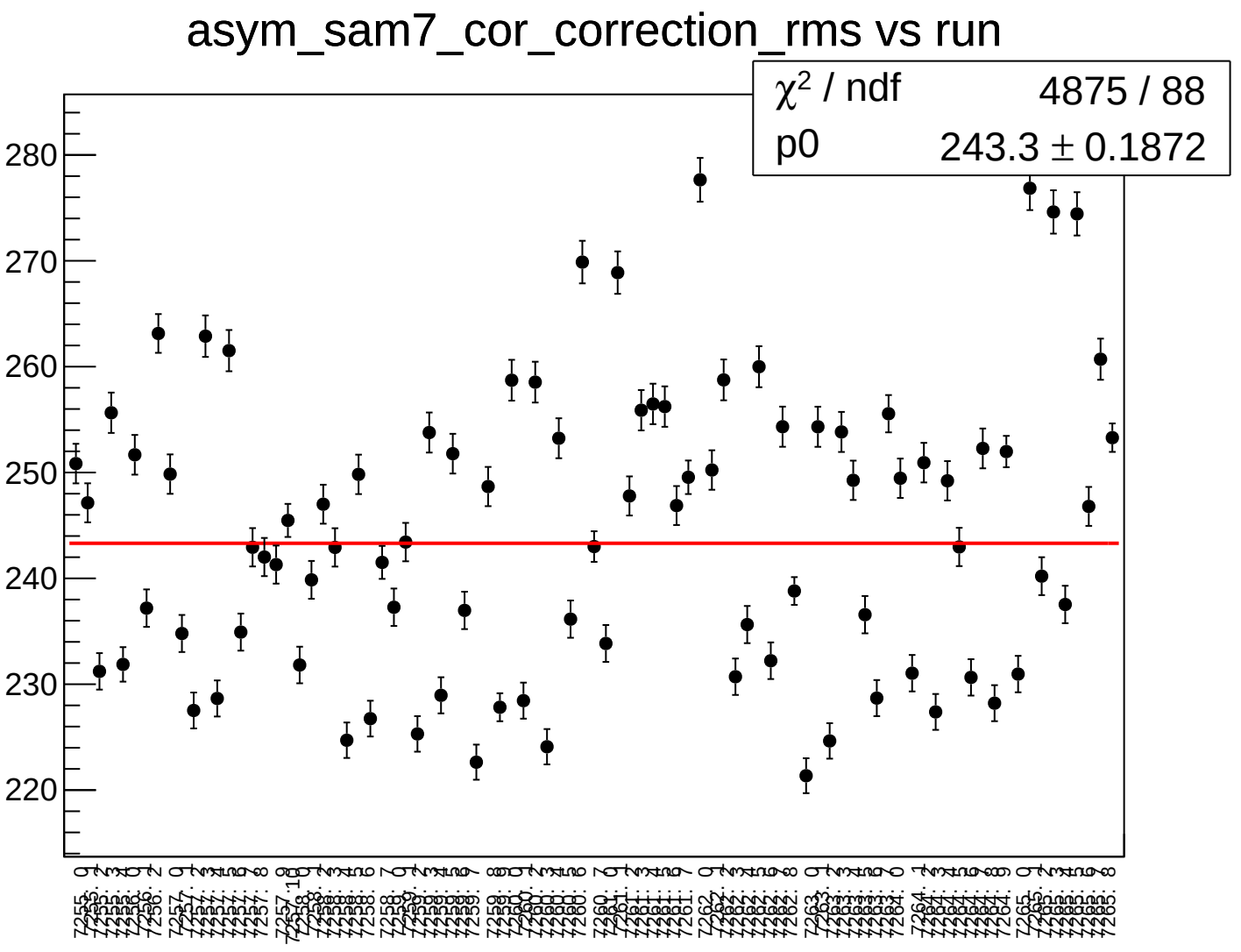

cor_asym_sam7_mean vs run
χ² / ndf 101.3 / 88
p0 −155.6 ± 65.37
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 48.35
Std Dev 112.3
2
1
0
−1
−2

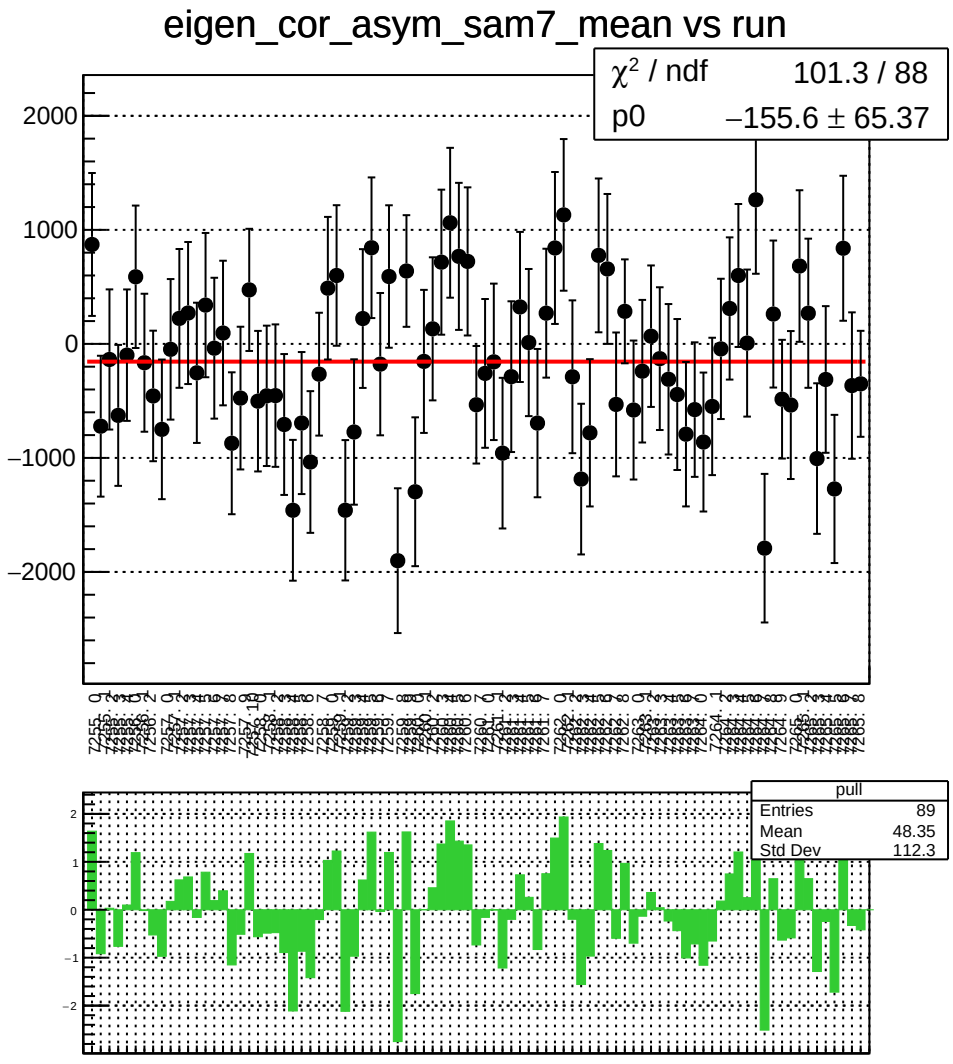

pull1D
Entries 89
Mean −0.002634
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

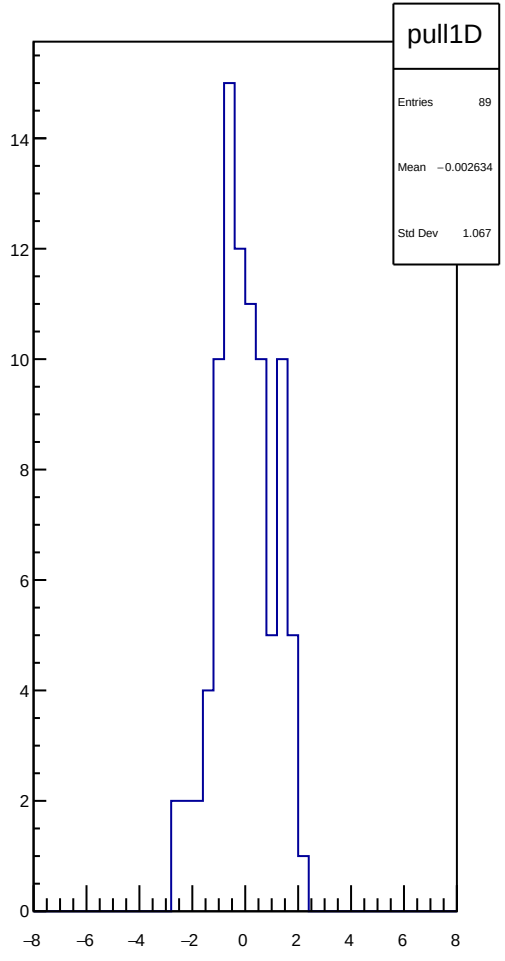

cor_asym_sam7_rms vs run
χ² / ndf 1464 / 88
p0 60.16 ± 0.04623
66
64
62
60
58
56

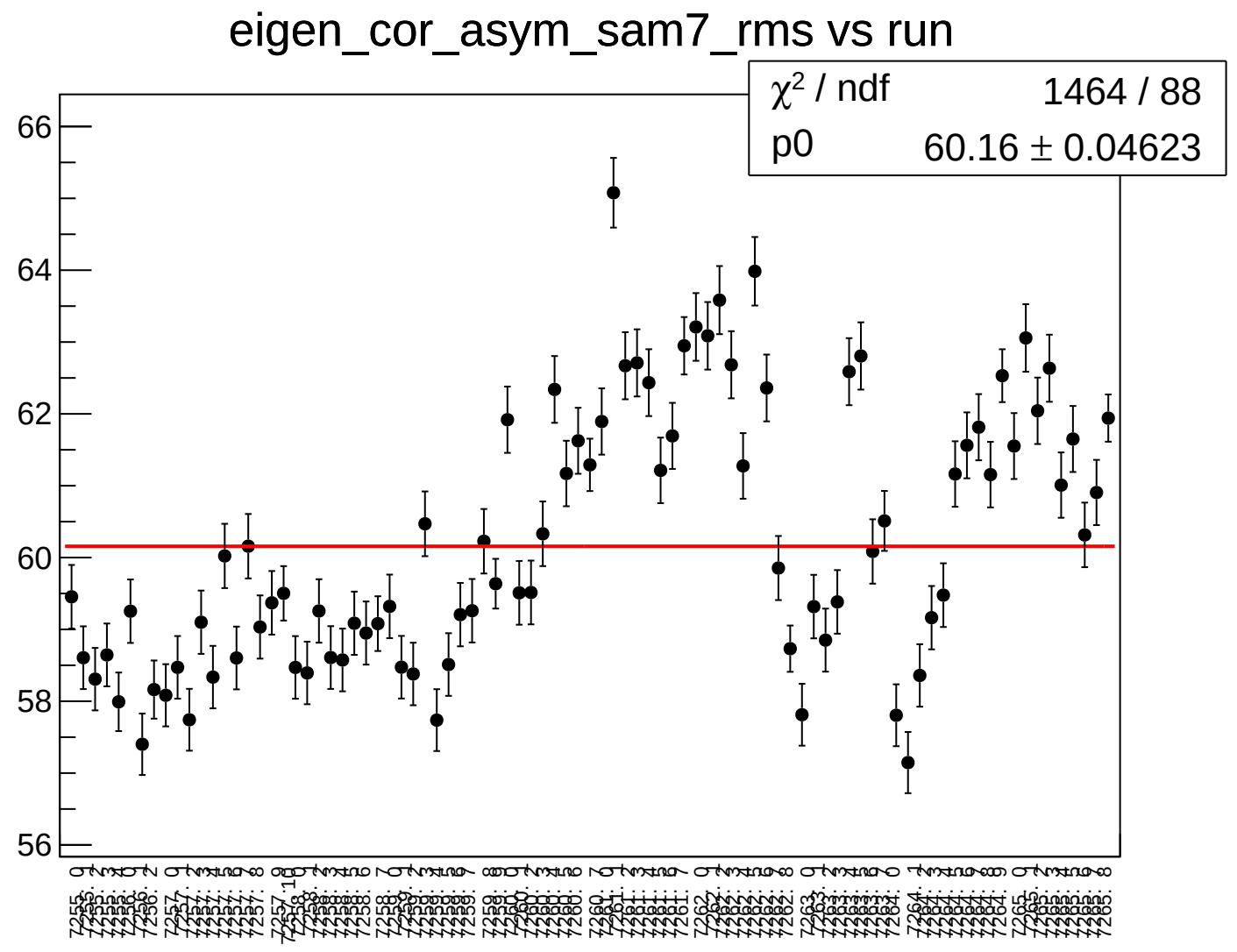

asym_sam7_cor_correction_mean vs run
χ² / ndf 85.48 / 88
p0 −365 ± 264.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −538.5
Std Dev 0
3
2
1
0
−1
−2

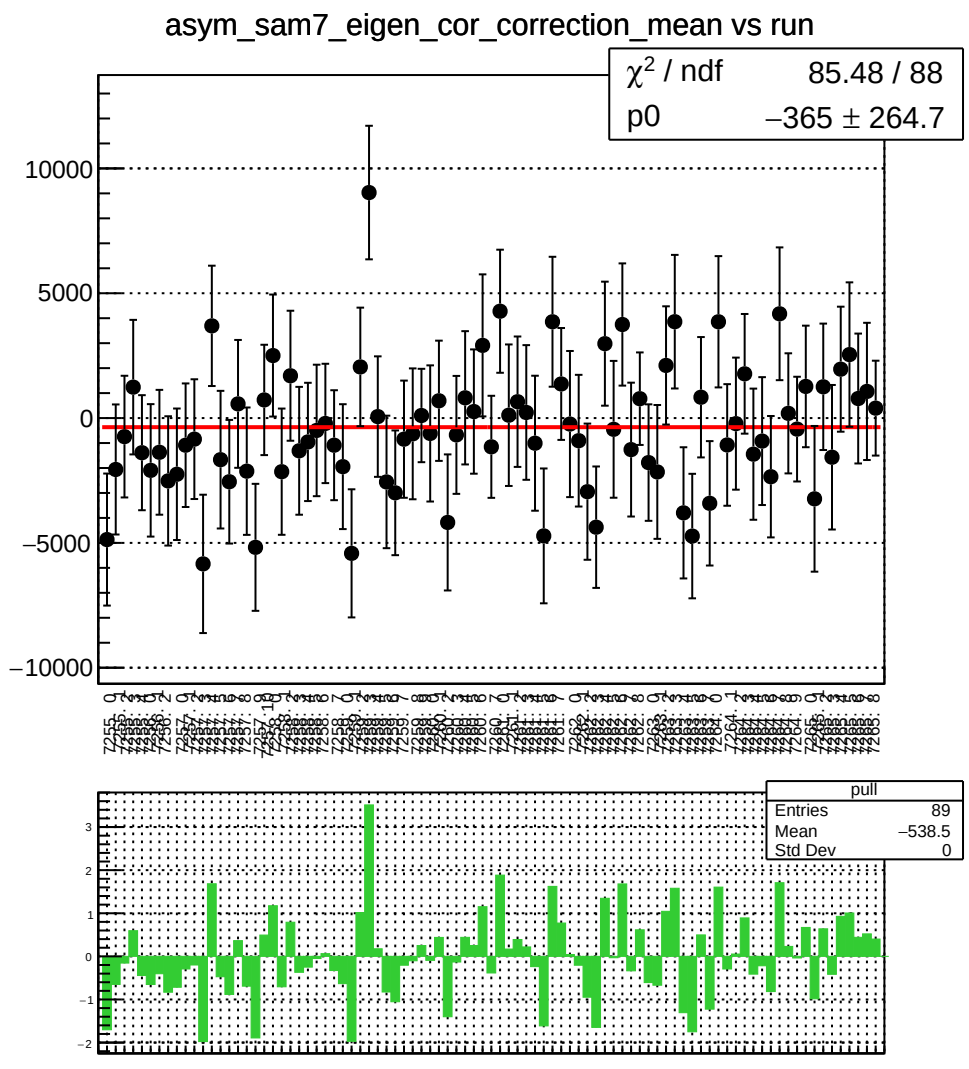

pull1D
Entries 89
Mean −0.009374
Std Dev 0.98
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

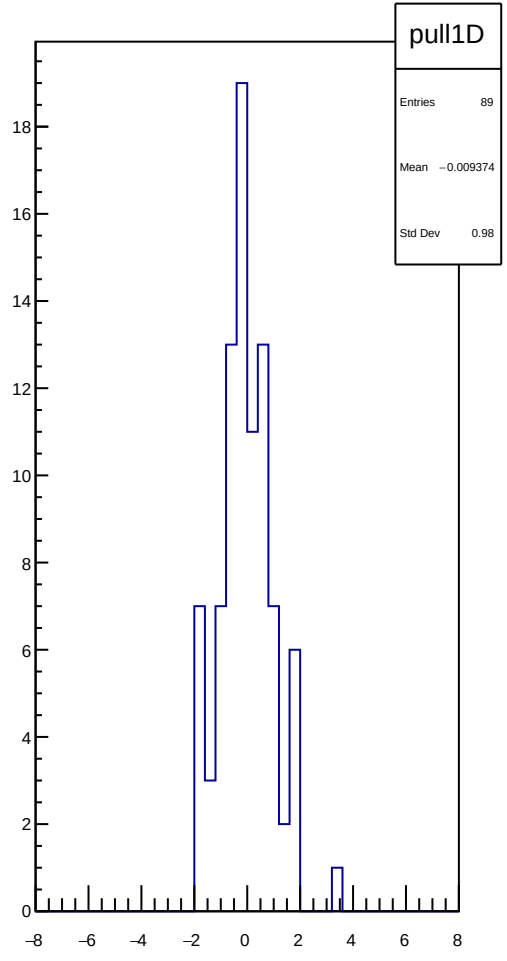

asym_sam7_cor_correction_rms vs run
χ² / ndf 4875 / 88
p0 243.3 ± 0.1872
280
270
260
250
240
230
220

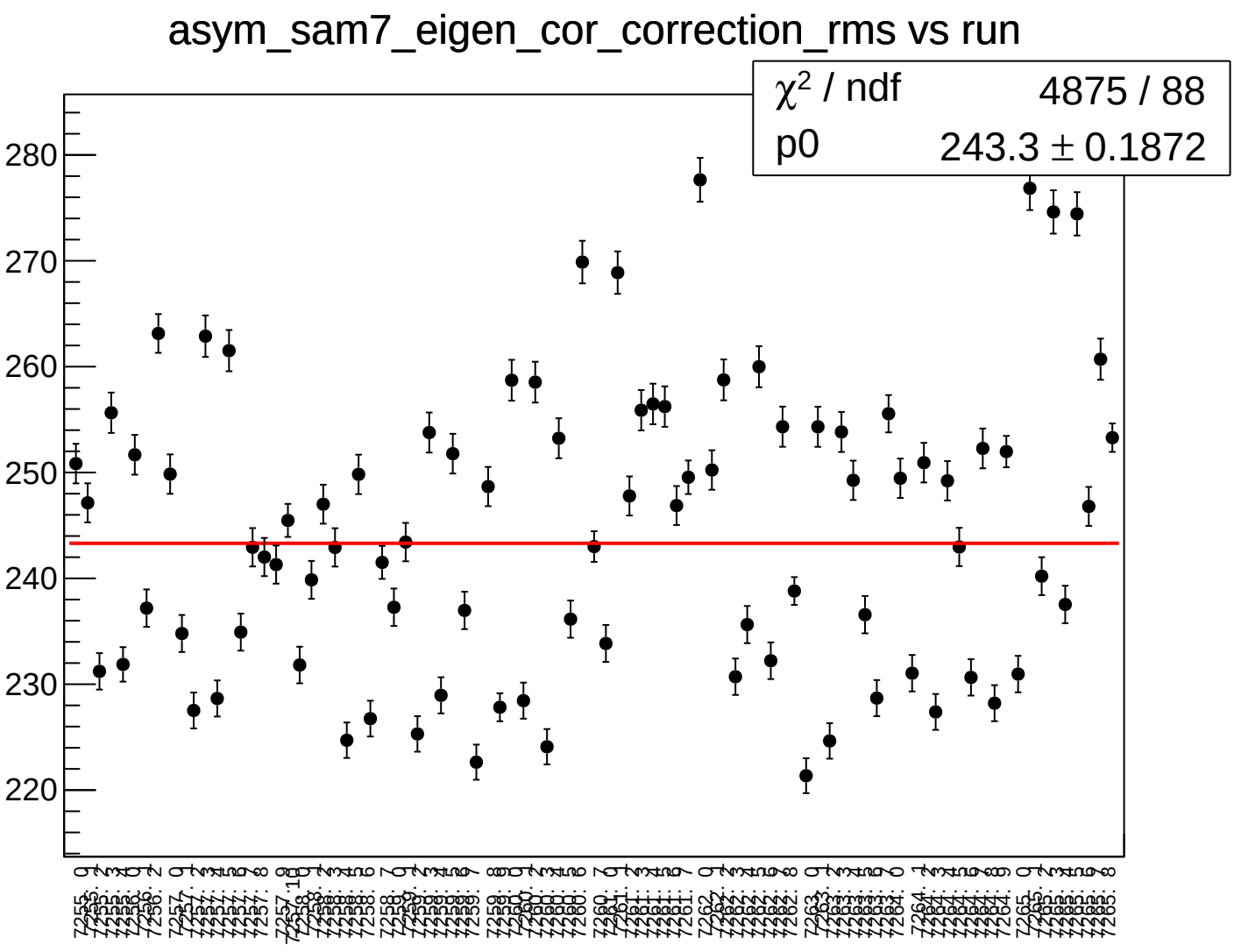

eigen_cor_asym_sam7_mean vs run
χ² / ndf 101.3 / 88
p0 −155.6 ± 65.37
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 48.35
Std Dev 112.3
2
1
0
−1
−2

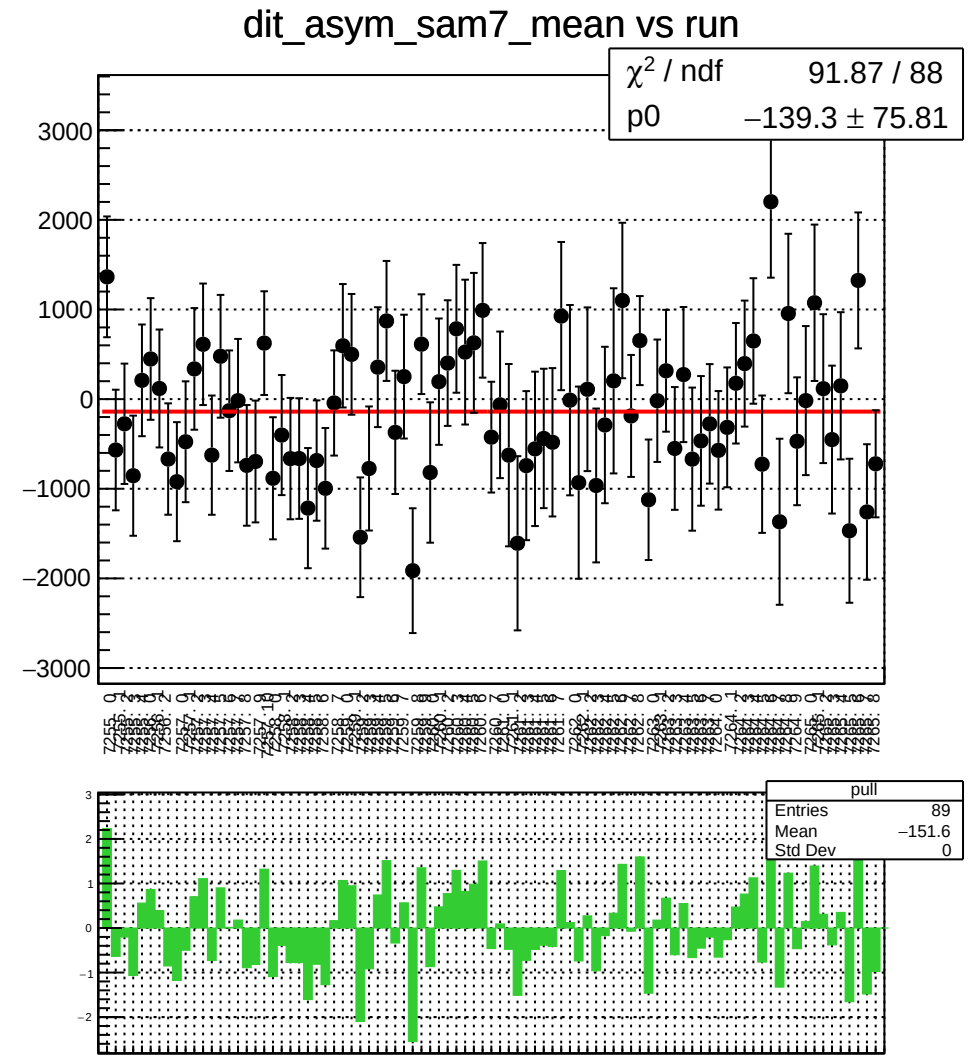

pull1D
Entries 89
Mean −0.002634
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

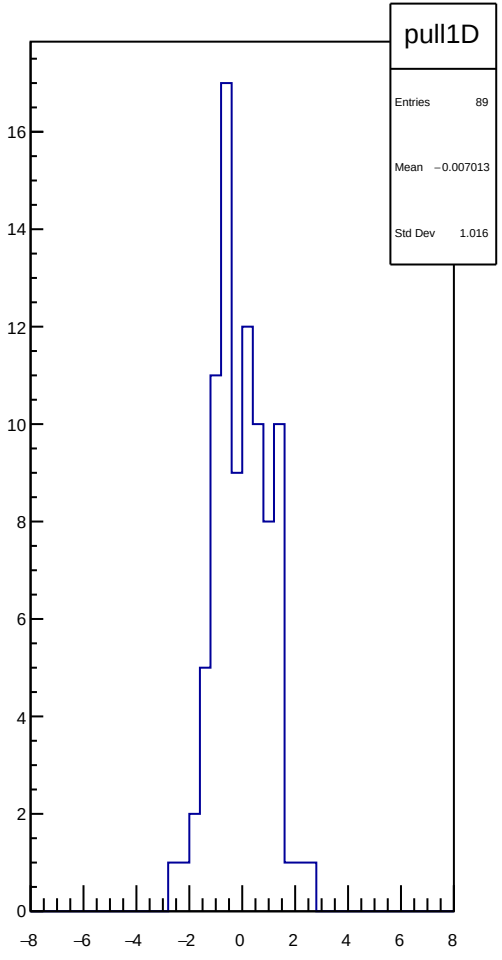

eigen_cor_asym_sam7_rms vs run
χ² / ndf 1464 / 88
p0 60.16 ± 0.04623
66
64
62
60
58
56

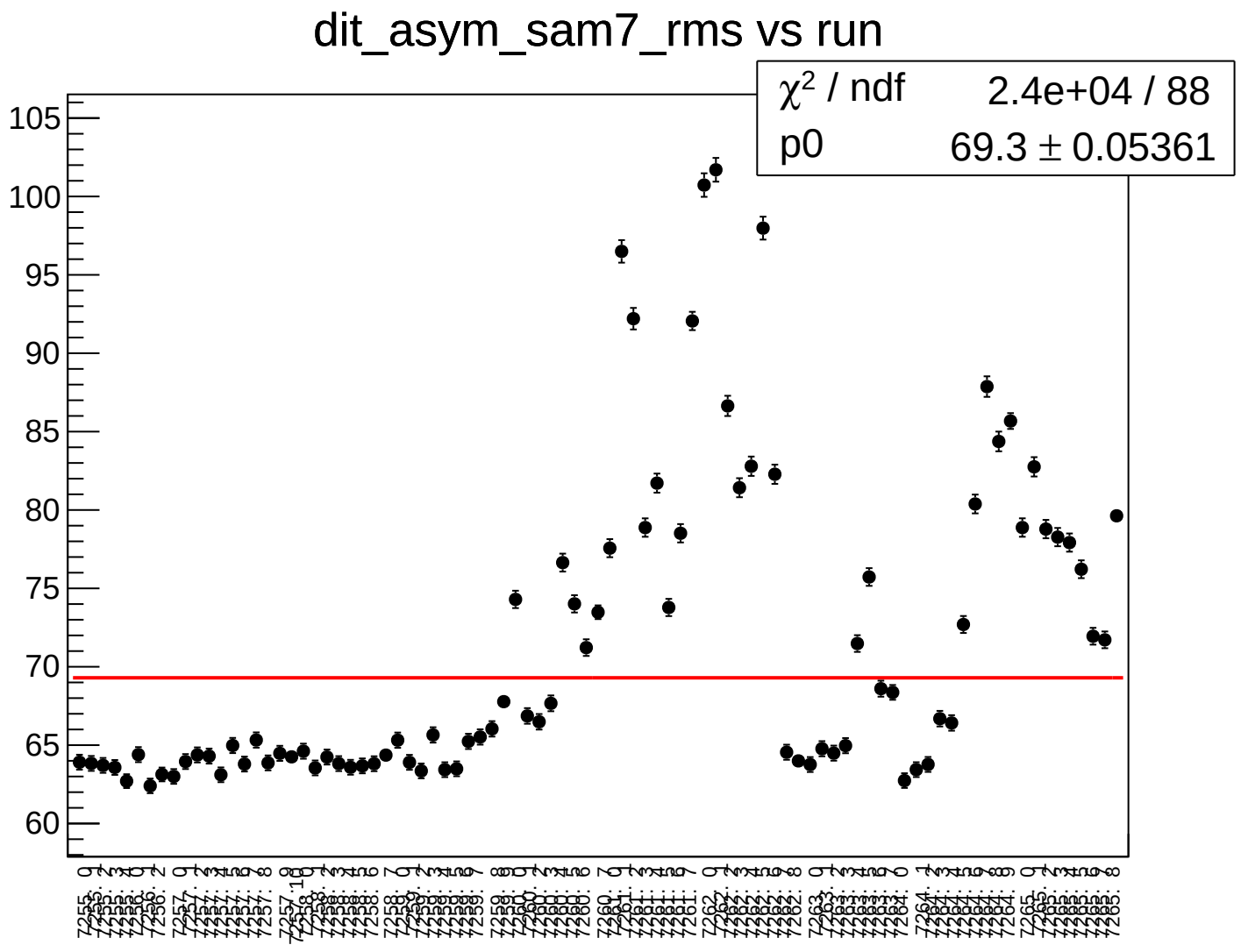

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 85.48 / 88
p0 −365 ± 264.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −538.5
Std Dev 0
3
2
1
0
−1
−2

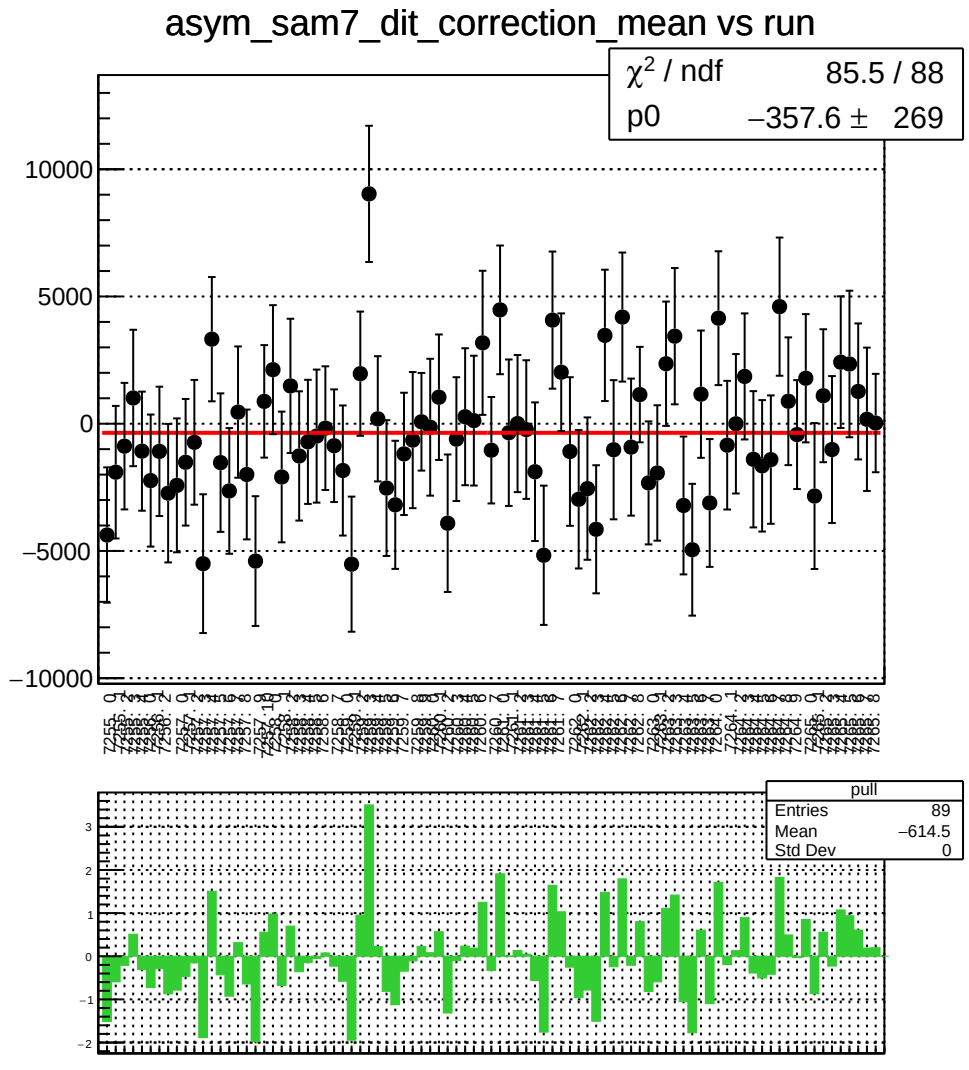

pull1D
Entries 89
Mean −0.009374
Std Dev 0.98
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

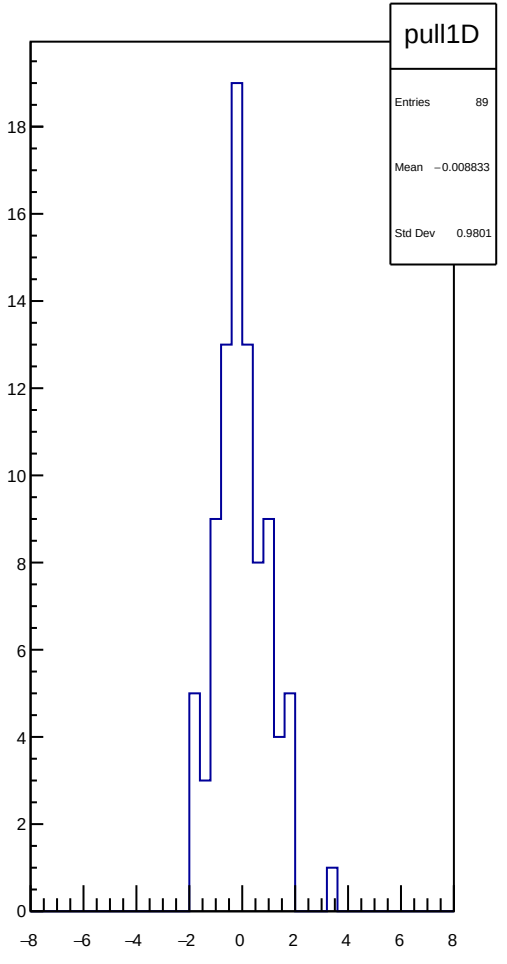

asym_sam7_eigen_cor_correction_rms vs run
χ^2 / ndf 4875 / 88
p0 243.3 ± 0.1872
280
270
260
250
240
230
220

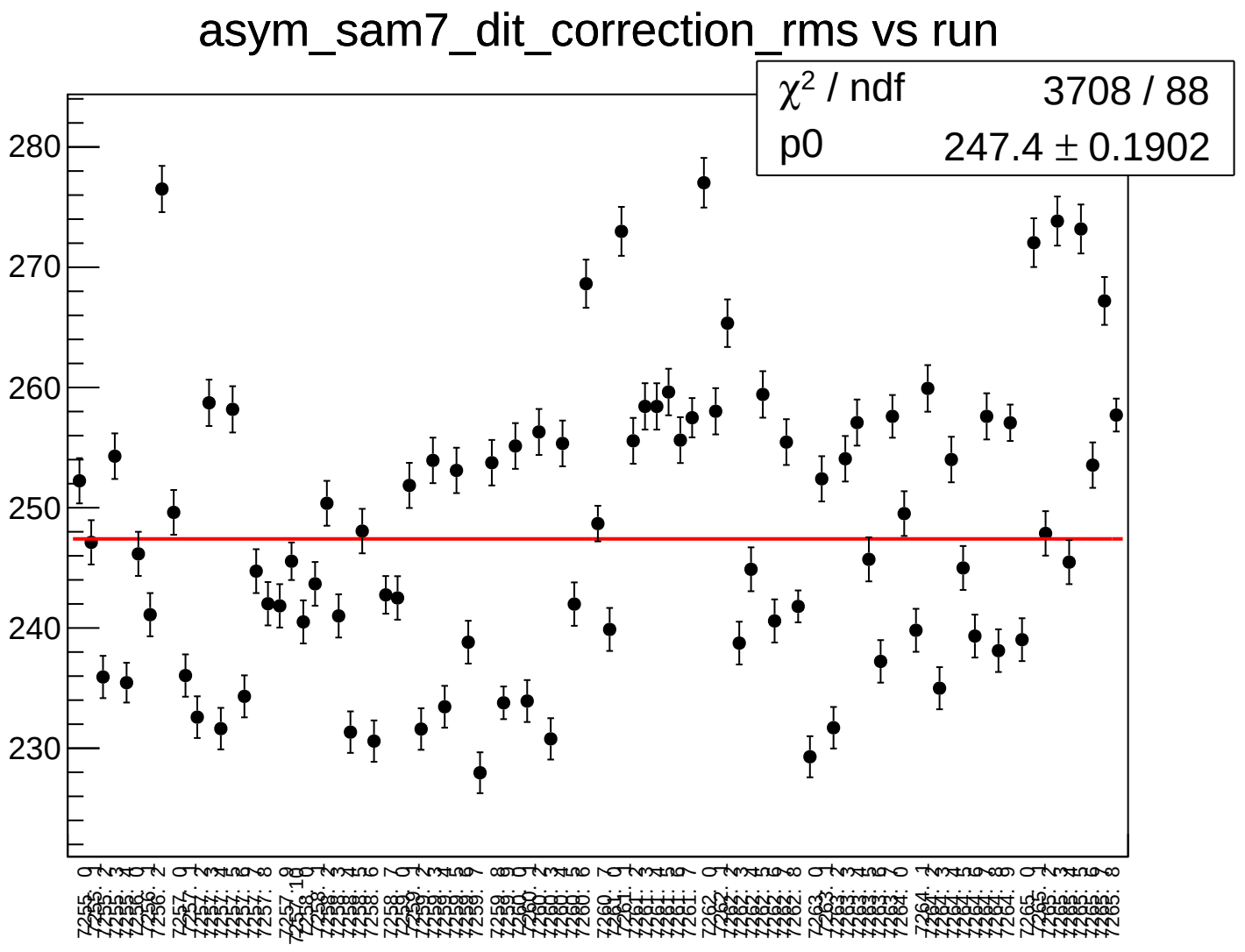

dit_asym_sam7_mean vs run
χ² / ndf 91.87 / 88
p0 −139.3 ± 75.81
pull
Entries 89
Mean −151.6
Std Dev 0

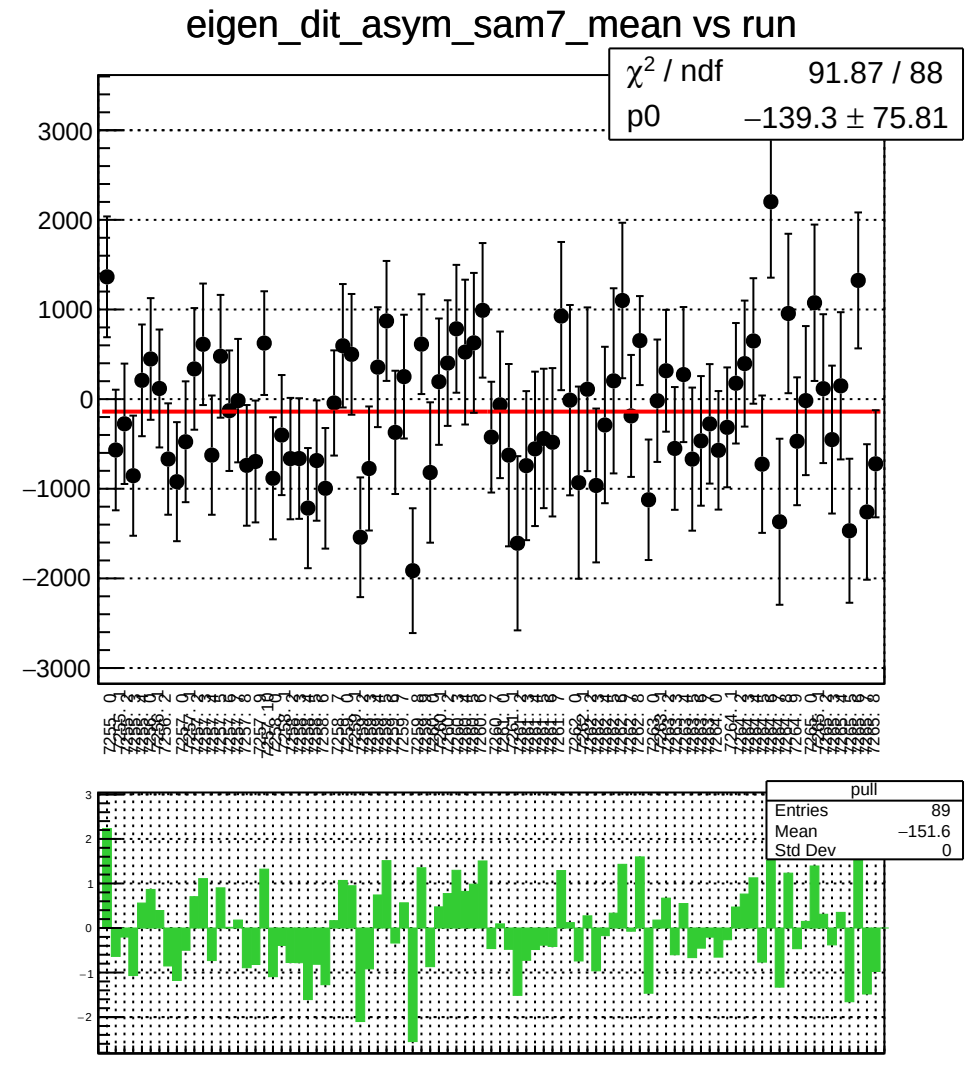

pull1D
Entries 89
Mean −0.007013
Std Dev 1.016

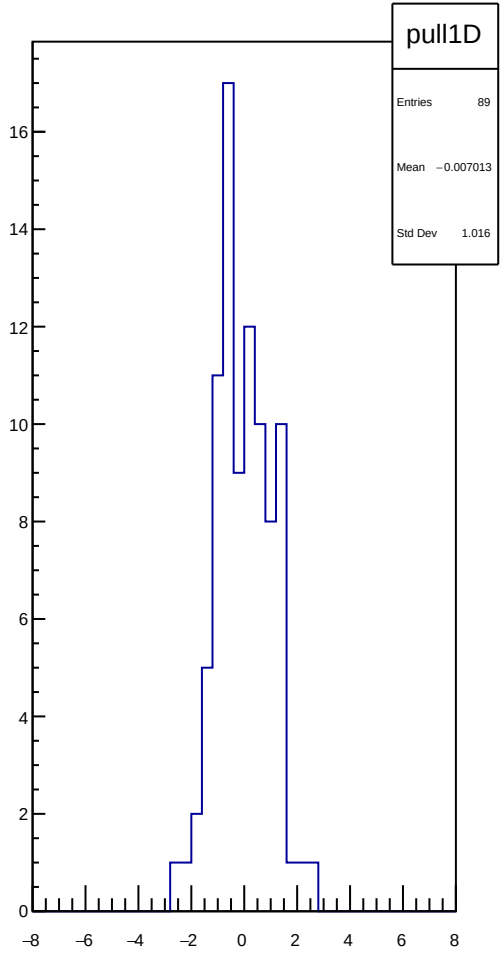

dit_asym_sam7_rms vs run
χ² / ndf 2.4e+04 / 88
p0 69.3 ± 0.05361
105
100
95
90
85
80
75
70
65
60

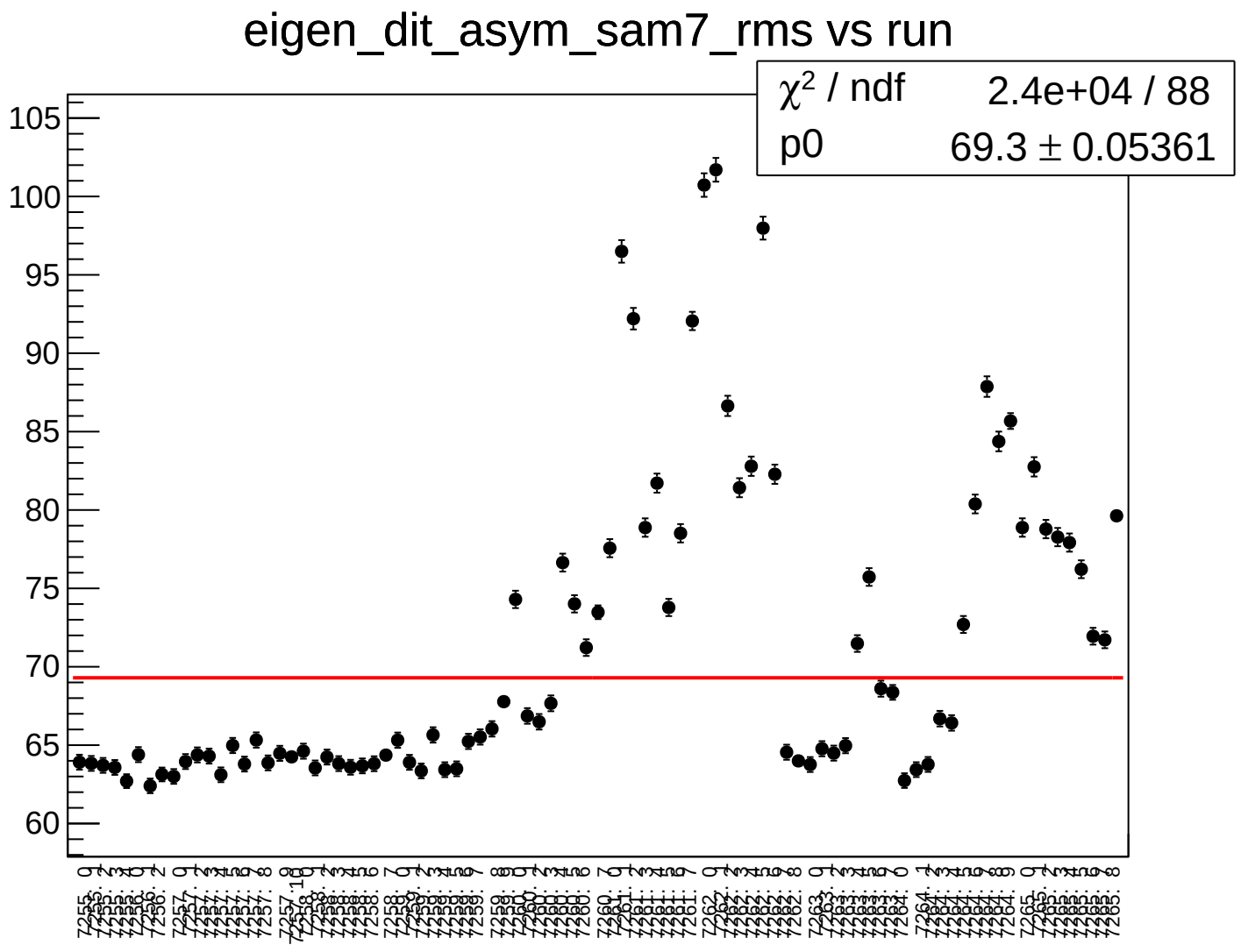

asym_sam7_dit_correction_mean vs run
χ² / ndf 85.5 / 88
p0 −357.6 ± 269
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −614.5
Std Dev 0
3
2
1
0
−1
−2

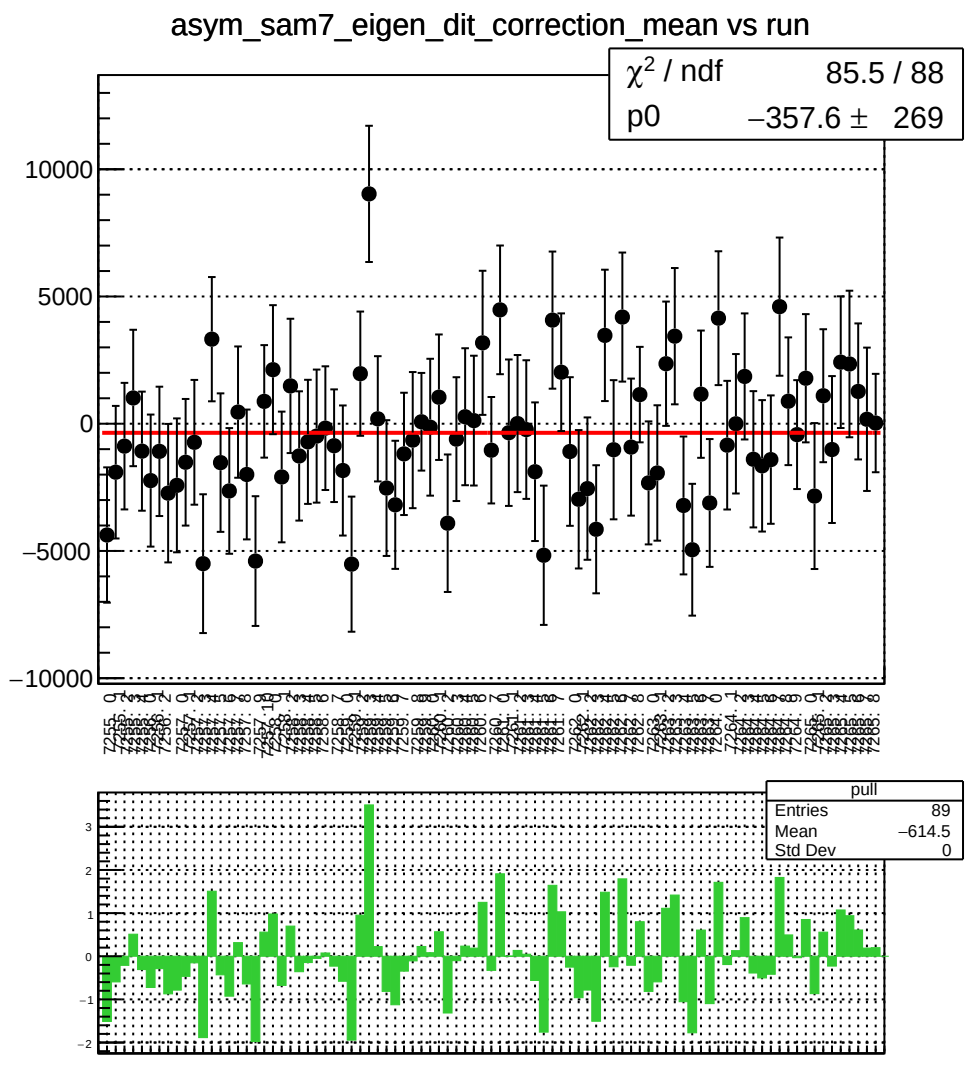

pull1D
Entries 89
Mean −0.008833
Std Dev 0.9801
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

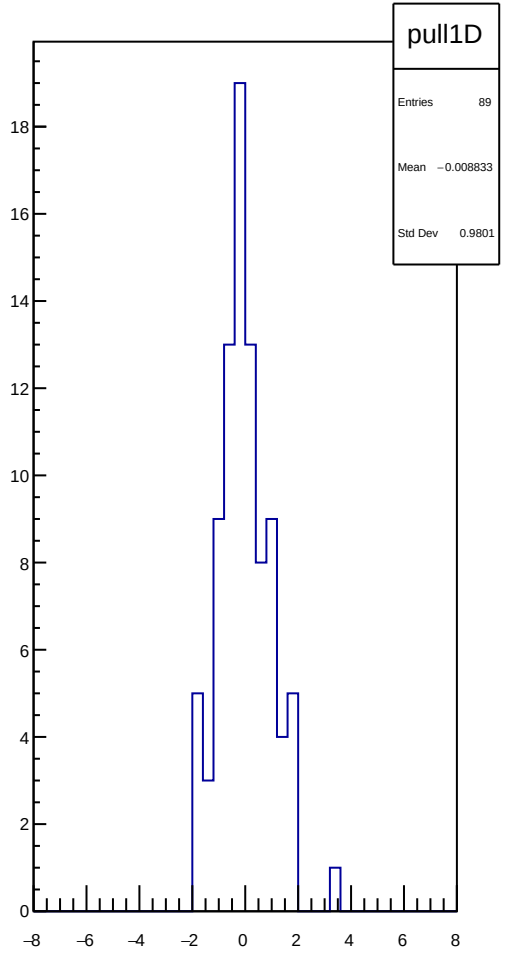

asym_sam7_dit_correction_rms vs run
χ² / ndf 3708 / 88
p0 247.4 ± 0.1902
280
270
260
250
240
230

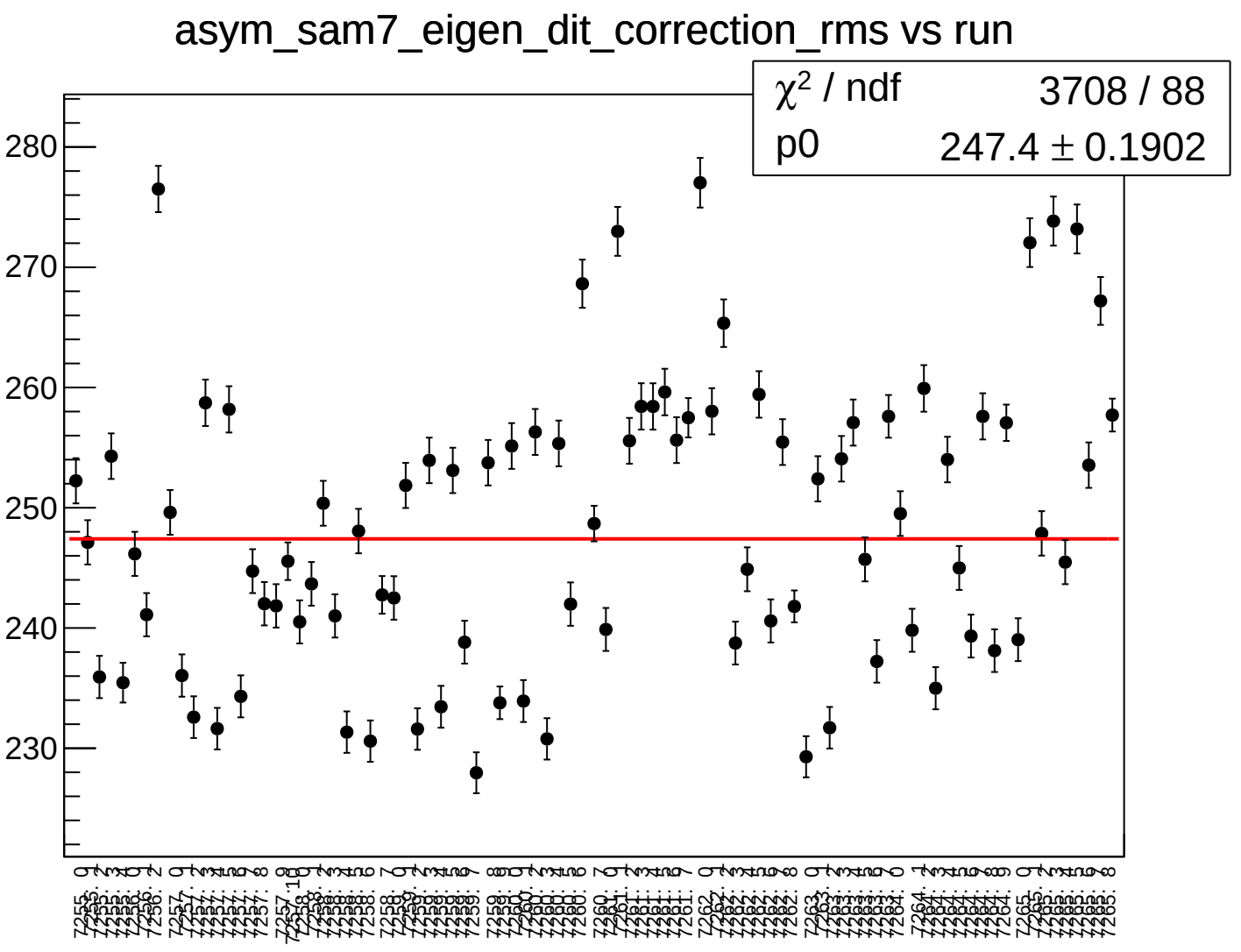

eigen_dit_asym_sam7_mean vs run
χ² / ndf 91.87 / 88
p0 −139.3 ± 75.81
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −151.6
Std Dev 0
3
2
1
0
−1
−2

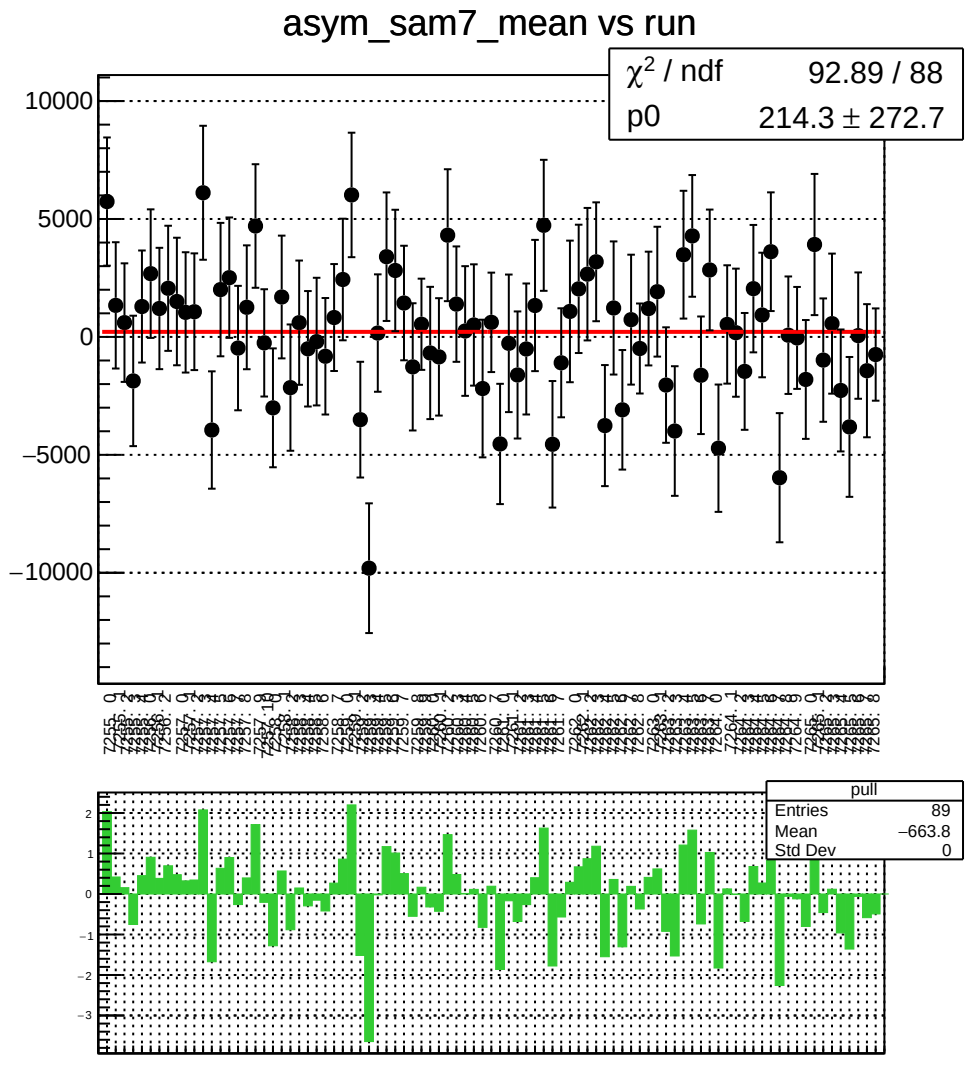

pull1D
Entries 89
Mean −0.007013
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

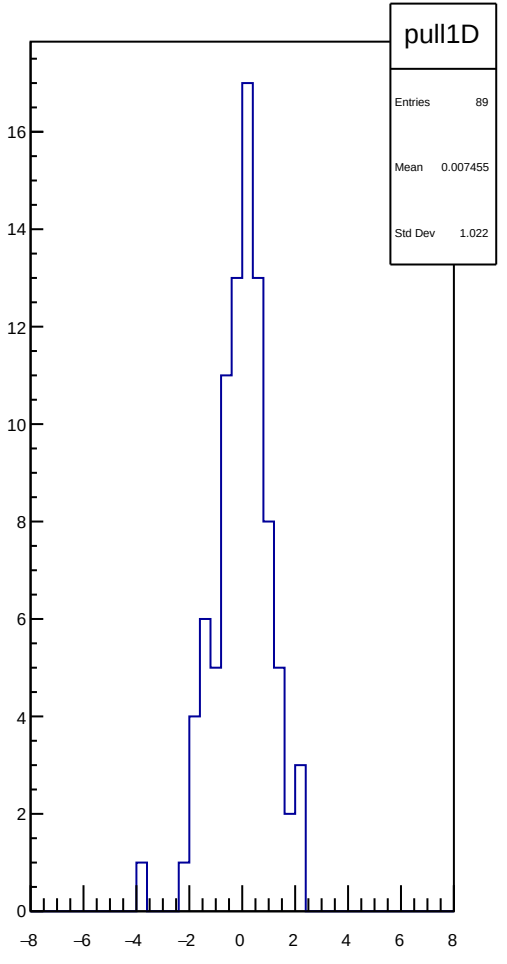

eigen_dit_asym_sam7_rms vs run
χ² / ndf 2.4e+04 / 88
p0 69.3 ± 0.05361
105
100
95
90
85
80
75
70
65
60

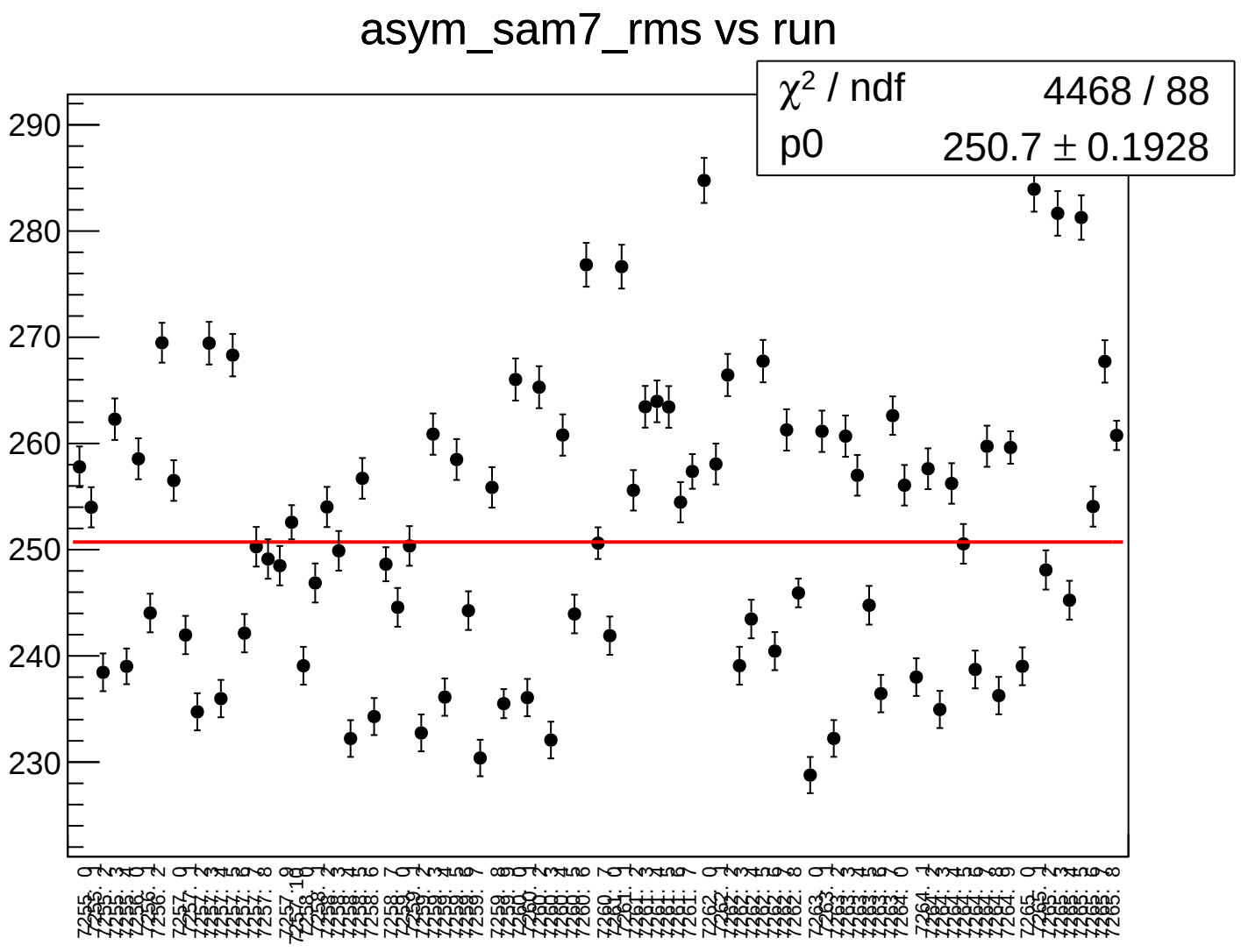

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 85.5 / 88
p0 −357.6 ± 269
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −614.5
Std Dev 0
3
2
1
0
−1
−2

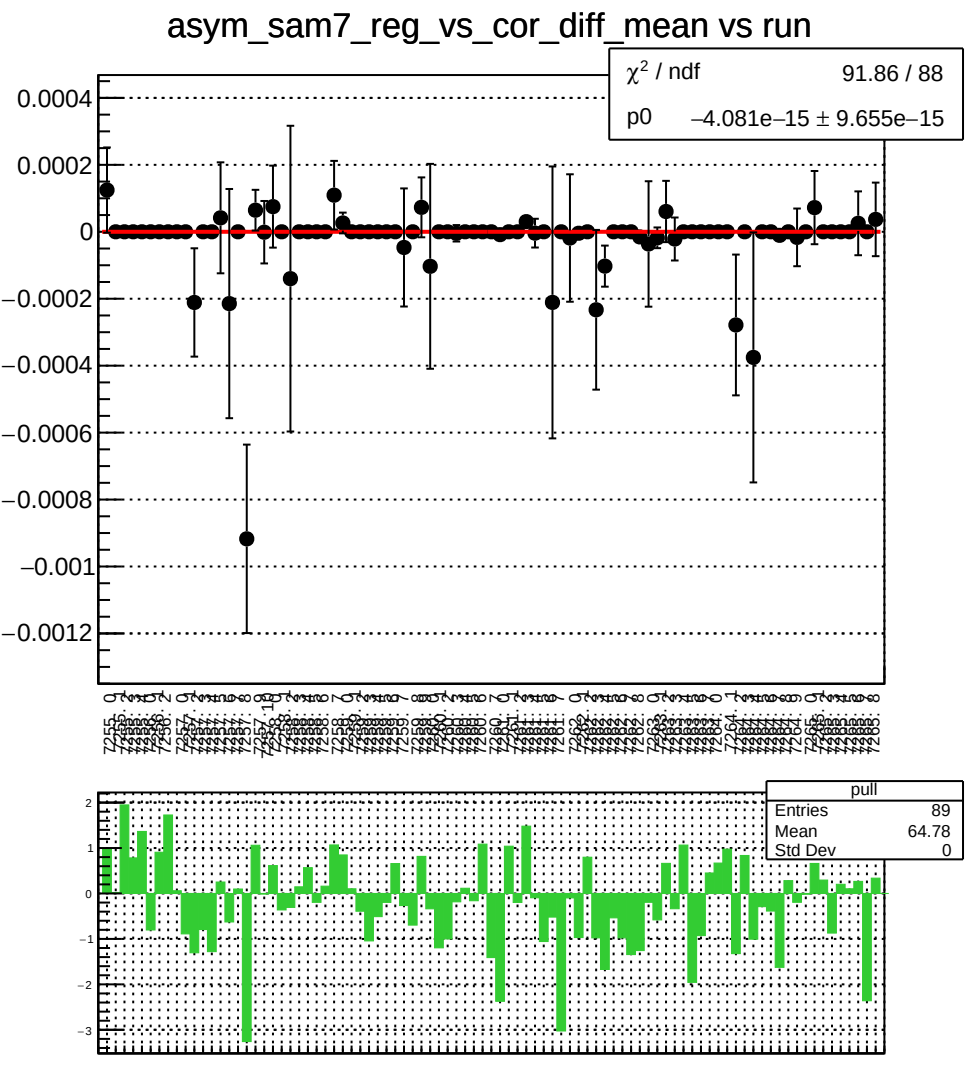

pull1D
Entries 89
Mean −0.008833
Std Dev 0.9801
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

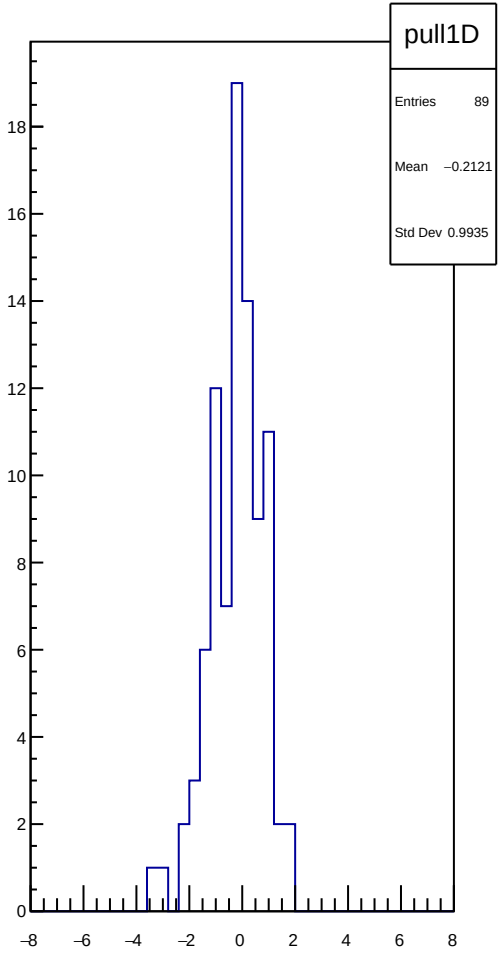

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 3708 / 88
p0 247.4 ± 0.1902
280
270
260
250
240
230

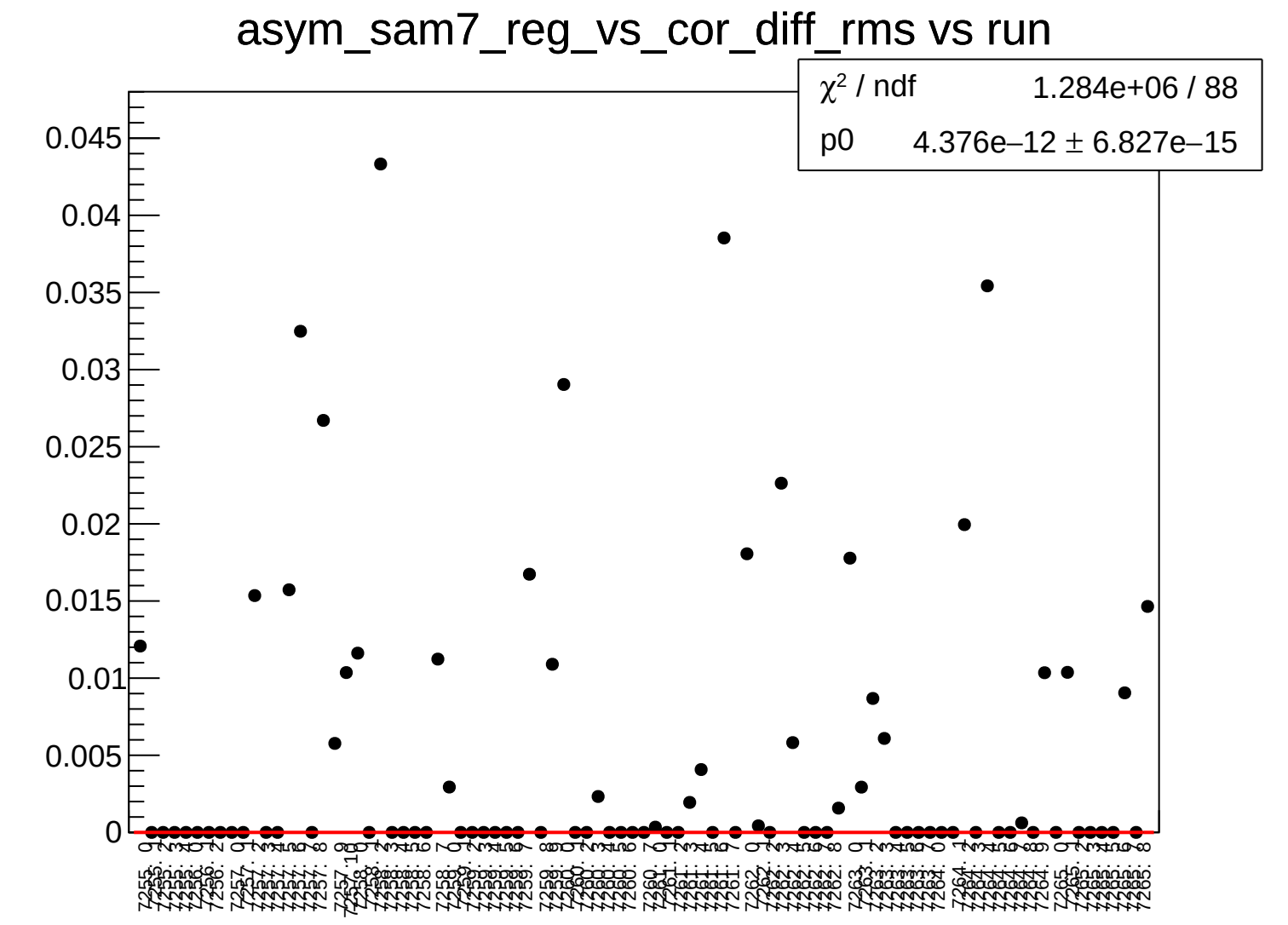

asym_sam7_mean vs run
χ² / ndf 92.89 / 88
p0 214.3 ± 272.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −663.8
Std Dev 0
2
1
0
−1
−2
−3

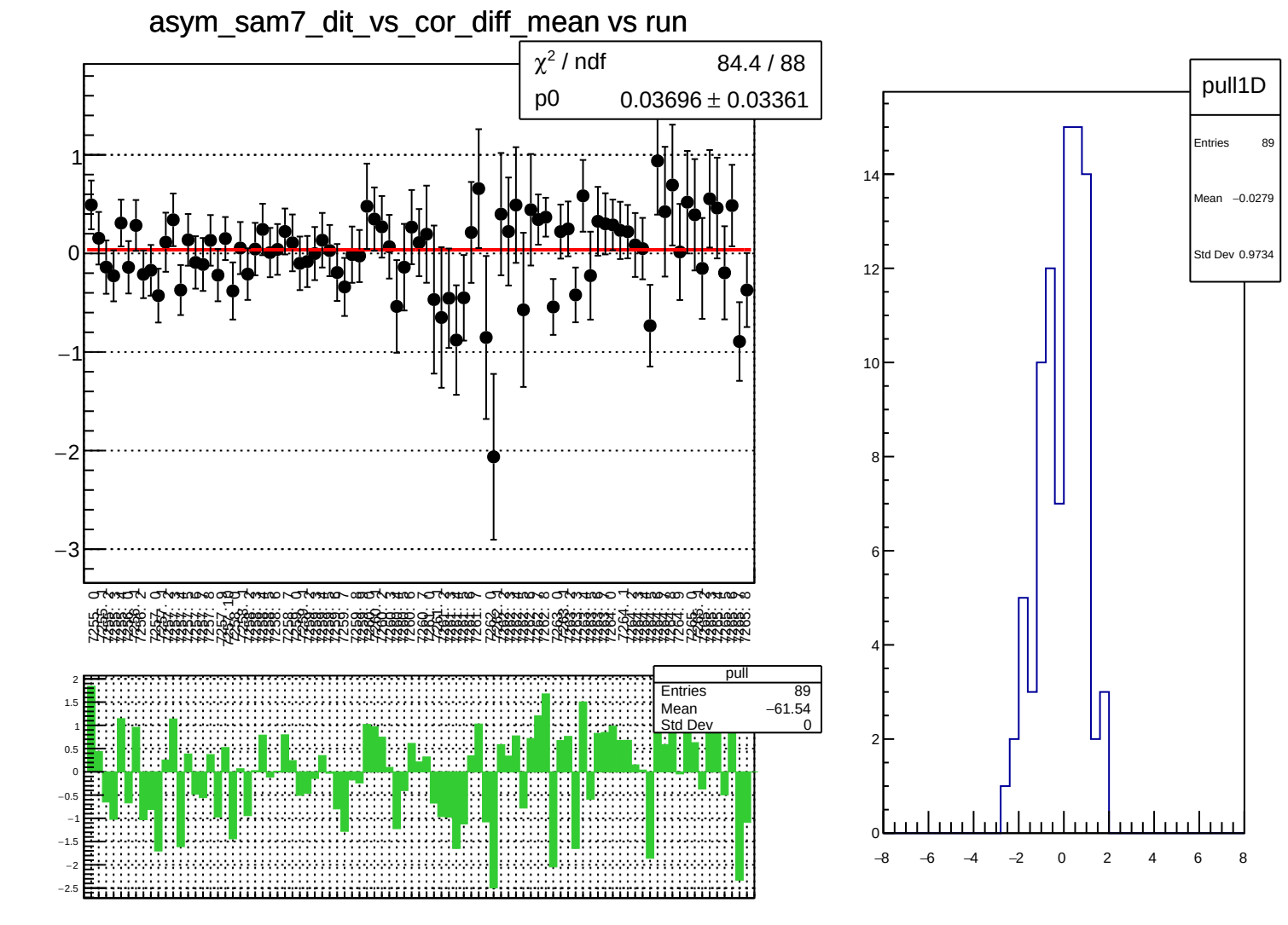

pull1D
Entries 89
Mean 0.007455
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

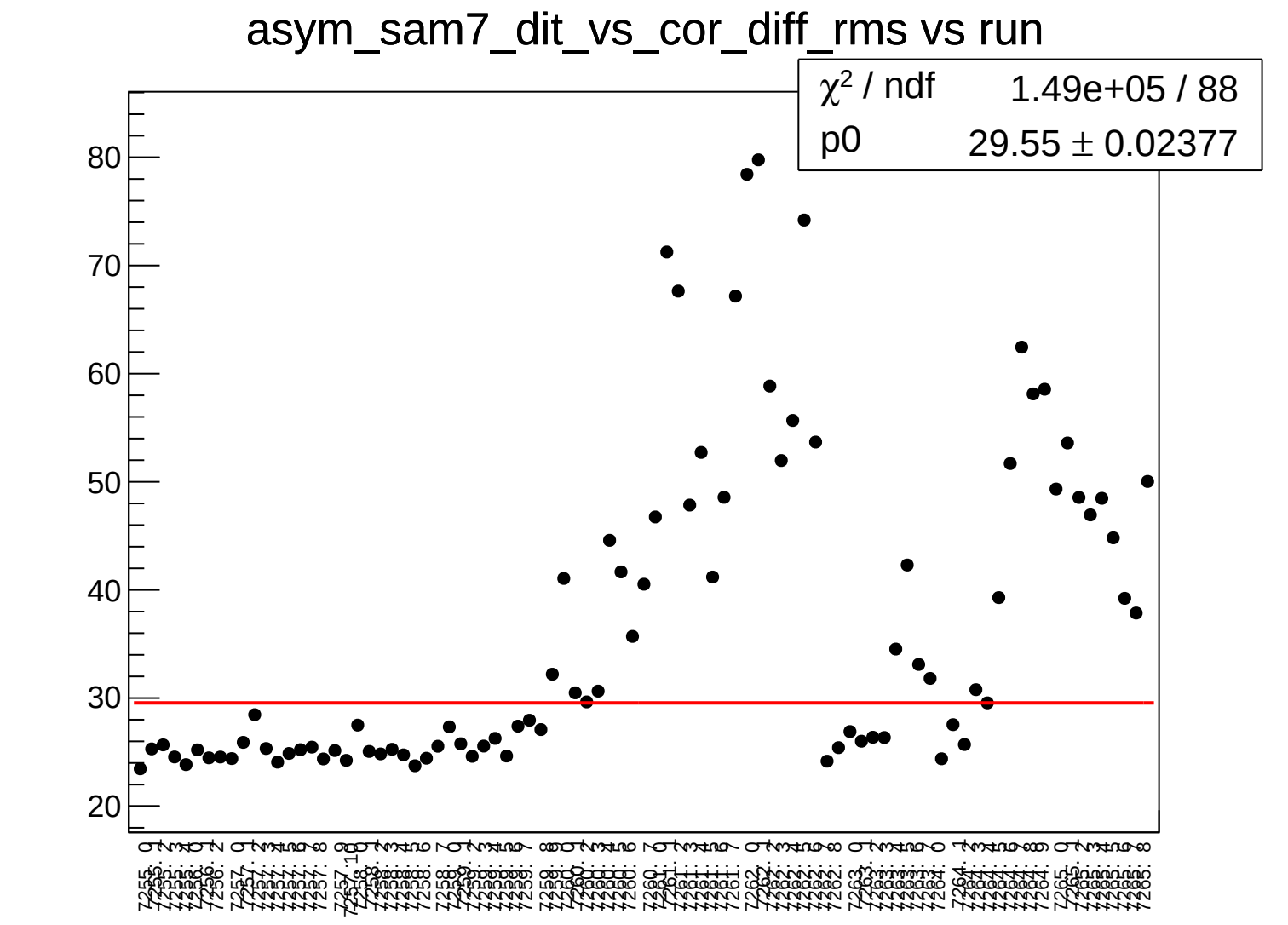

asym_sam7_rms vs run
χ² / ndf 4468 / 88
p0 250.7 ± 0.1928
290
280
270
260
250
240
230

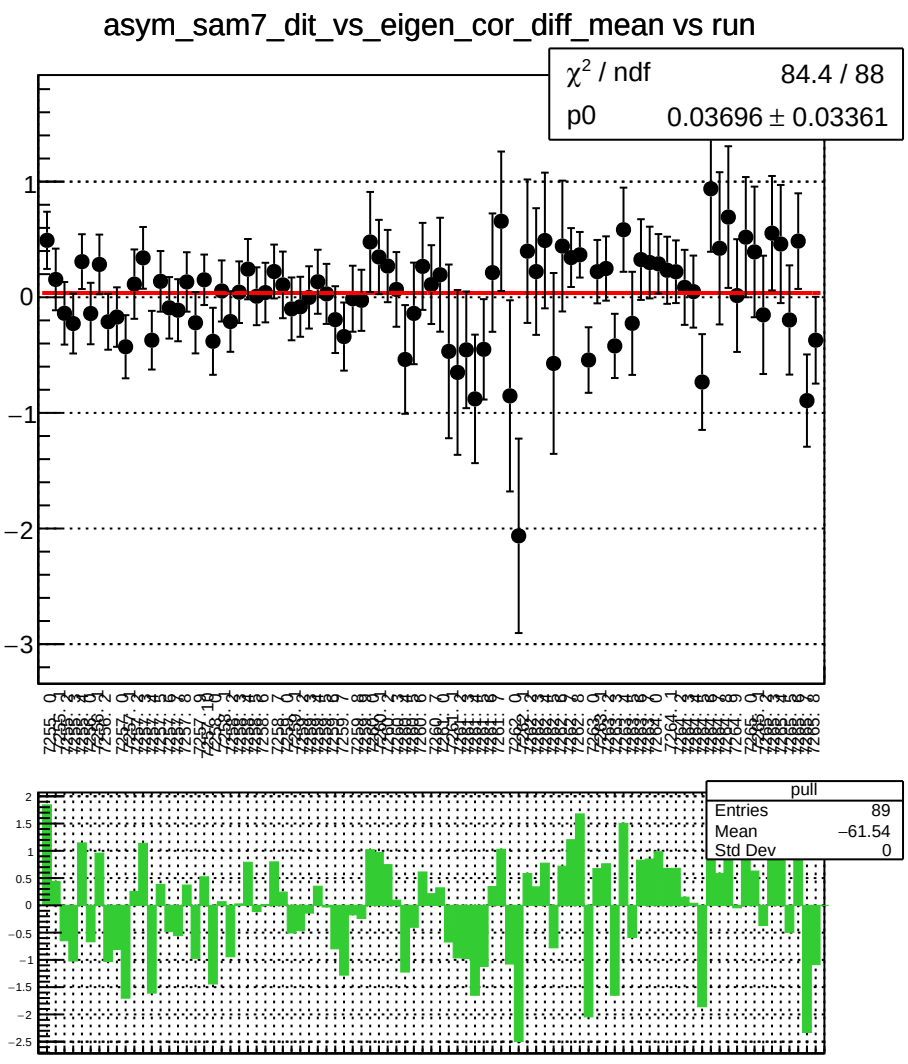

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 91.86 / 88
p0 −4.081e−15 ± 9.655e−15
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 89
Mean 64.78
Std Dev 0

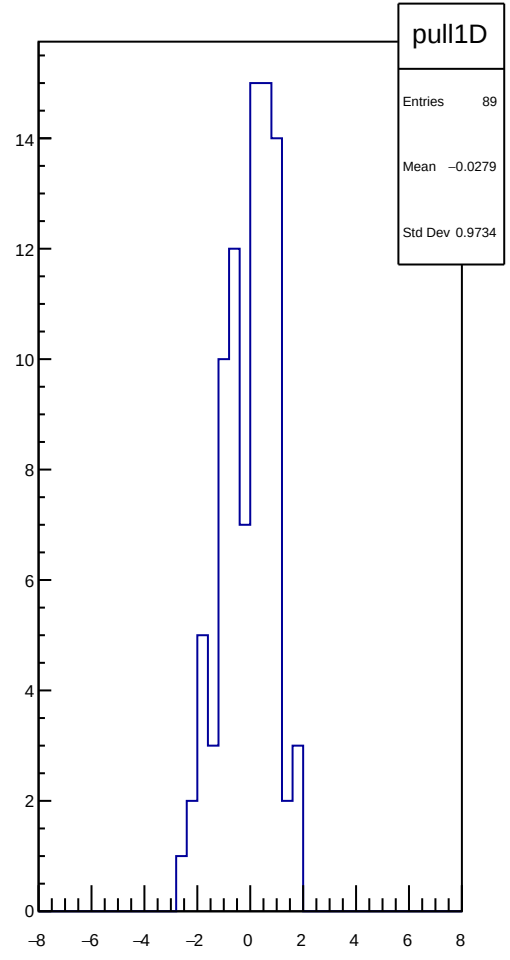

pull1D
Entries 89
Mean −0.2121
Std Dev 0.9935
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

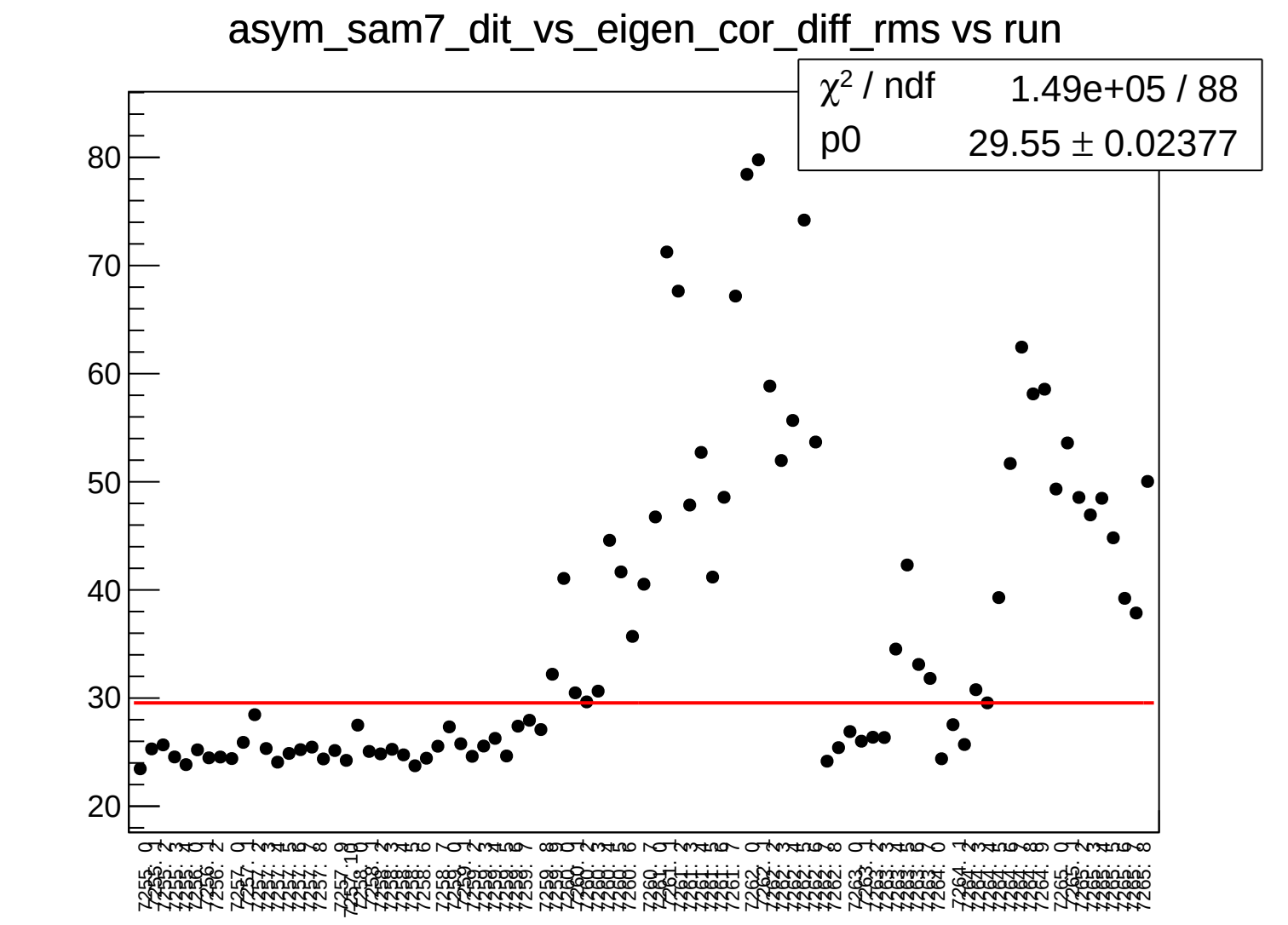

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.284e+06 / 88
p0 4.376e−12 ± 6.827e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

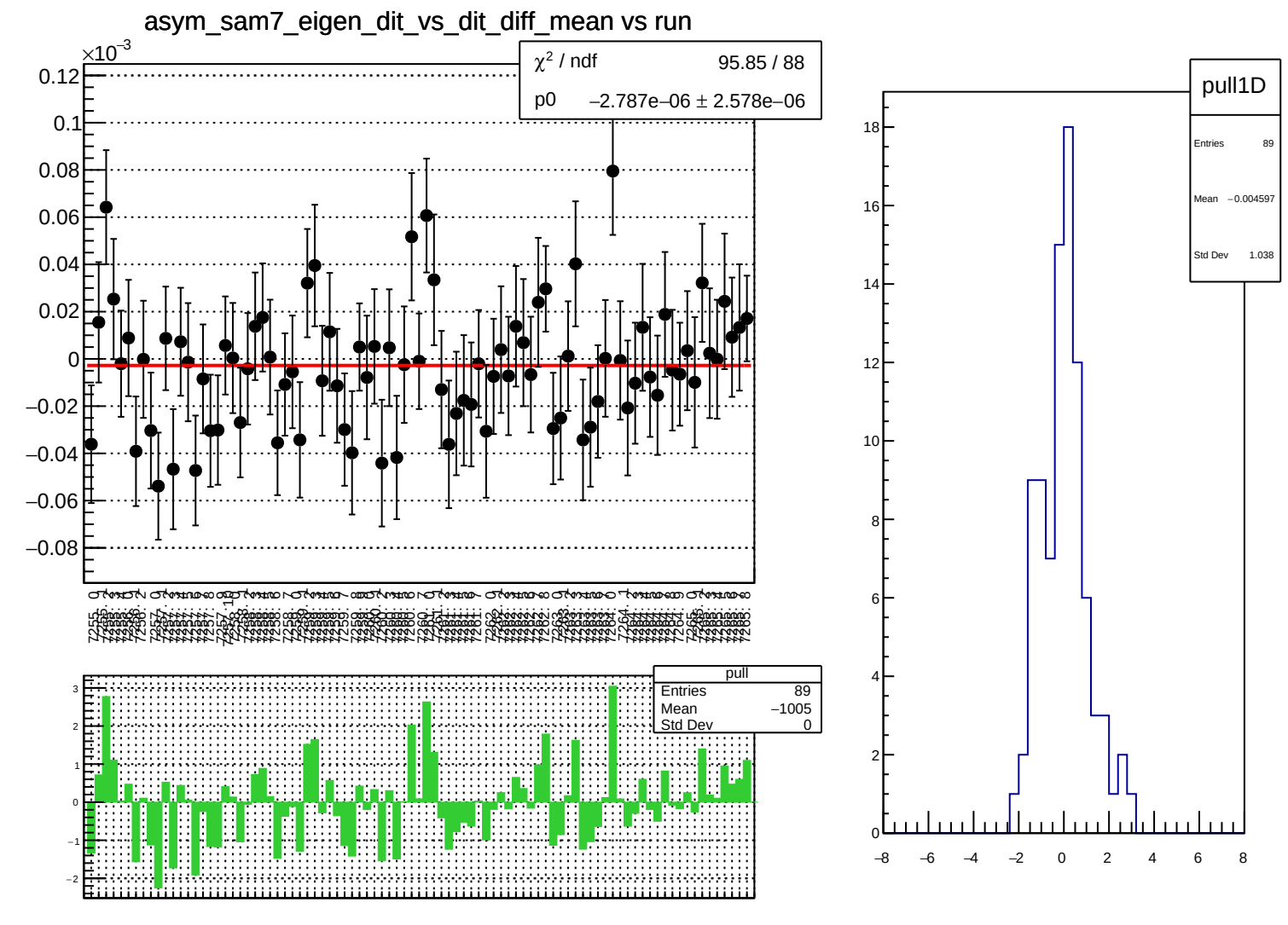

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 84.4 / 88
p0 0.03696 ± 0.03361
pull
Entries 89
Mean −61.54
Std Dev 0
pull1D
Entries 89
Mean −0.0279
Std Dev 0.9734

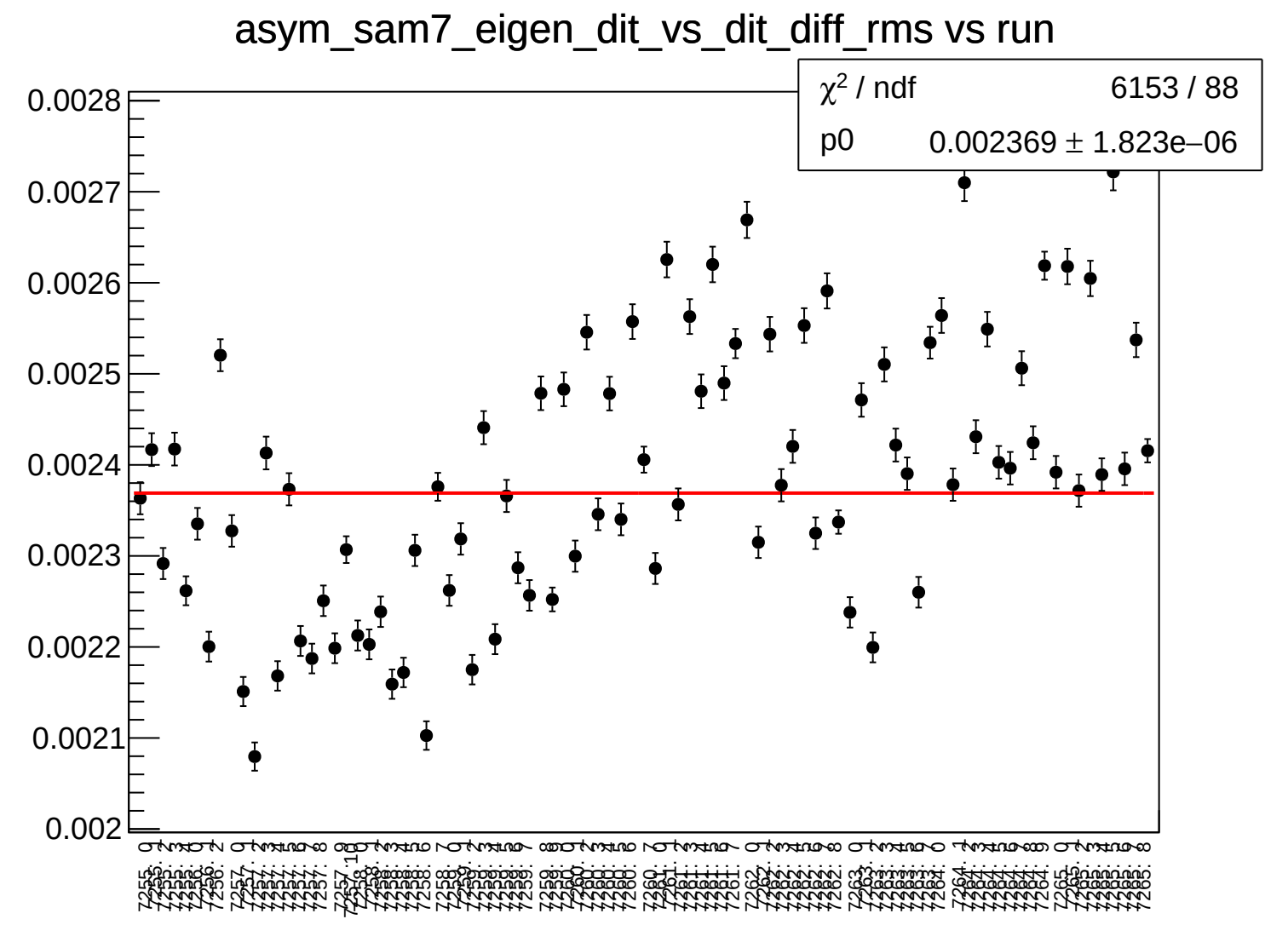

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.49e+05 / 88
p0 29.55 ± 0.02377
80
70
60
50
40
30
20

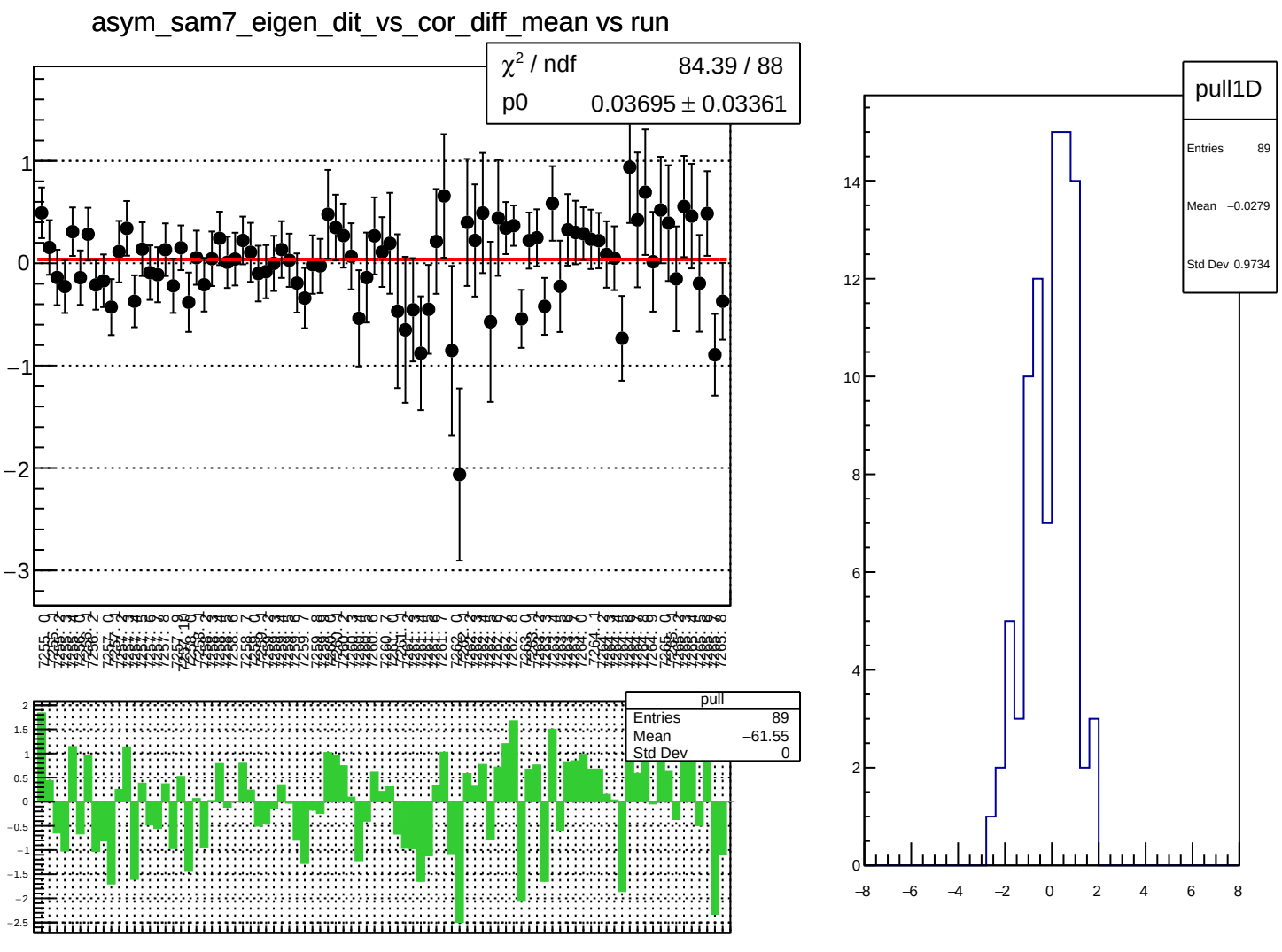

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.4 / 88
p0 0.03696 ± 0.03361
pull
Entries 89
Mean −61.54
Std Dev 0

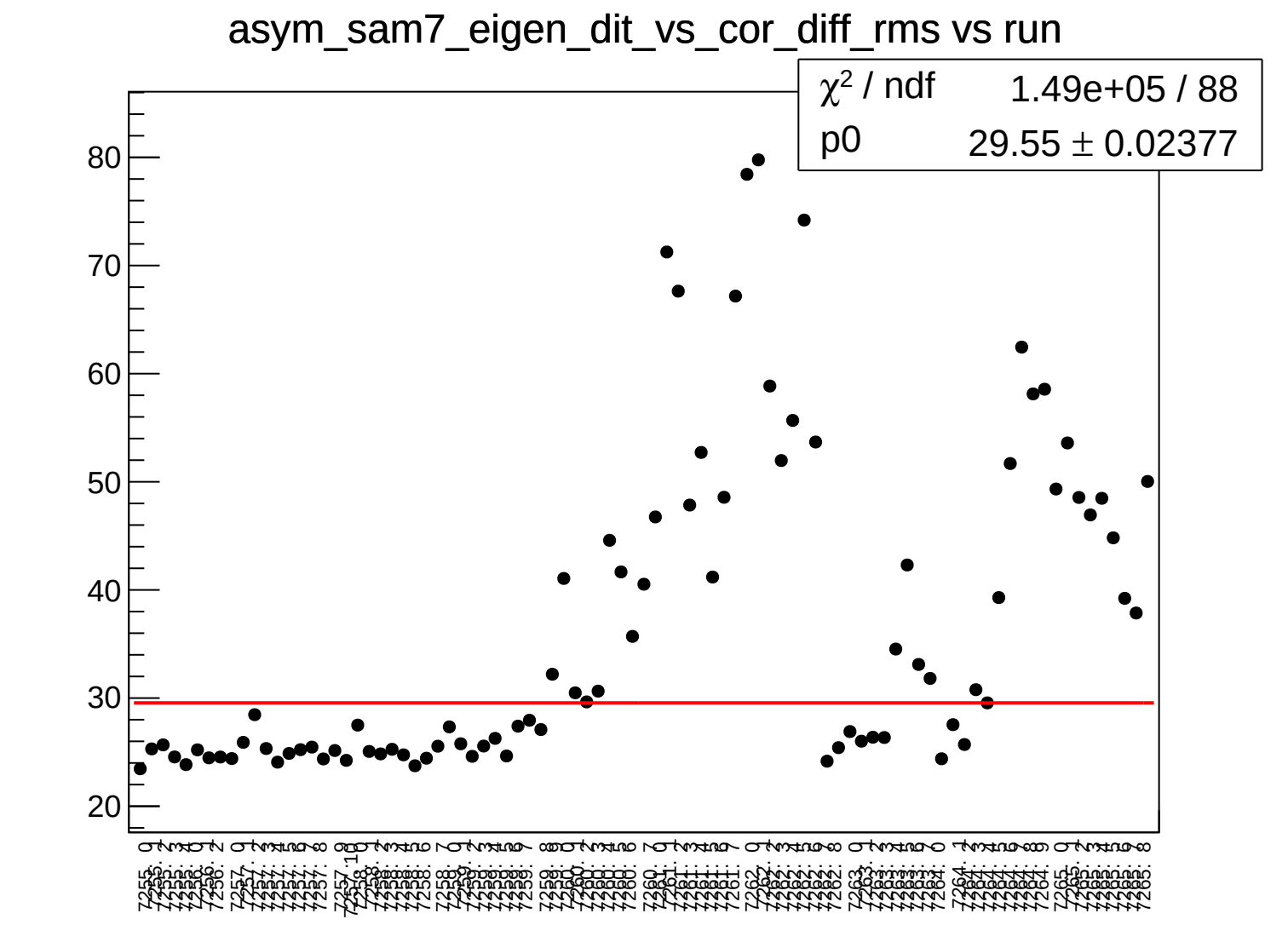

pull1D
Entries 89
Mean −0.0279
Std Dev 0.9734

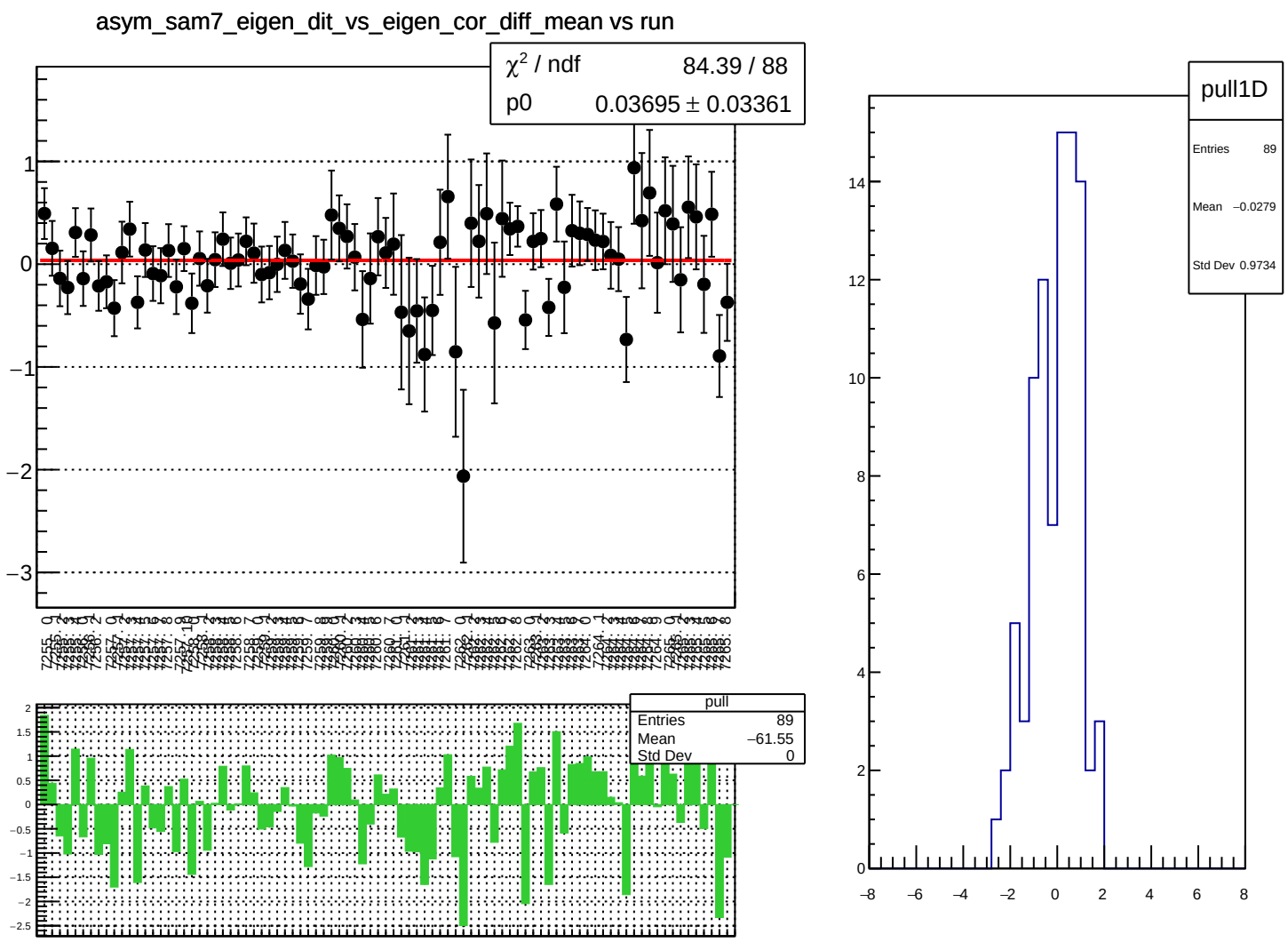

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.49e+05 / 88
p0 29.55 ± 0.02377
80
70
60
50
40
30
20

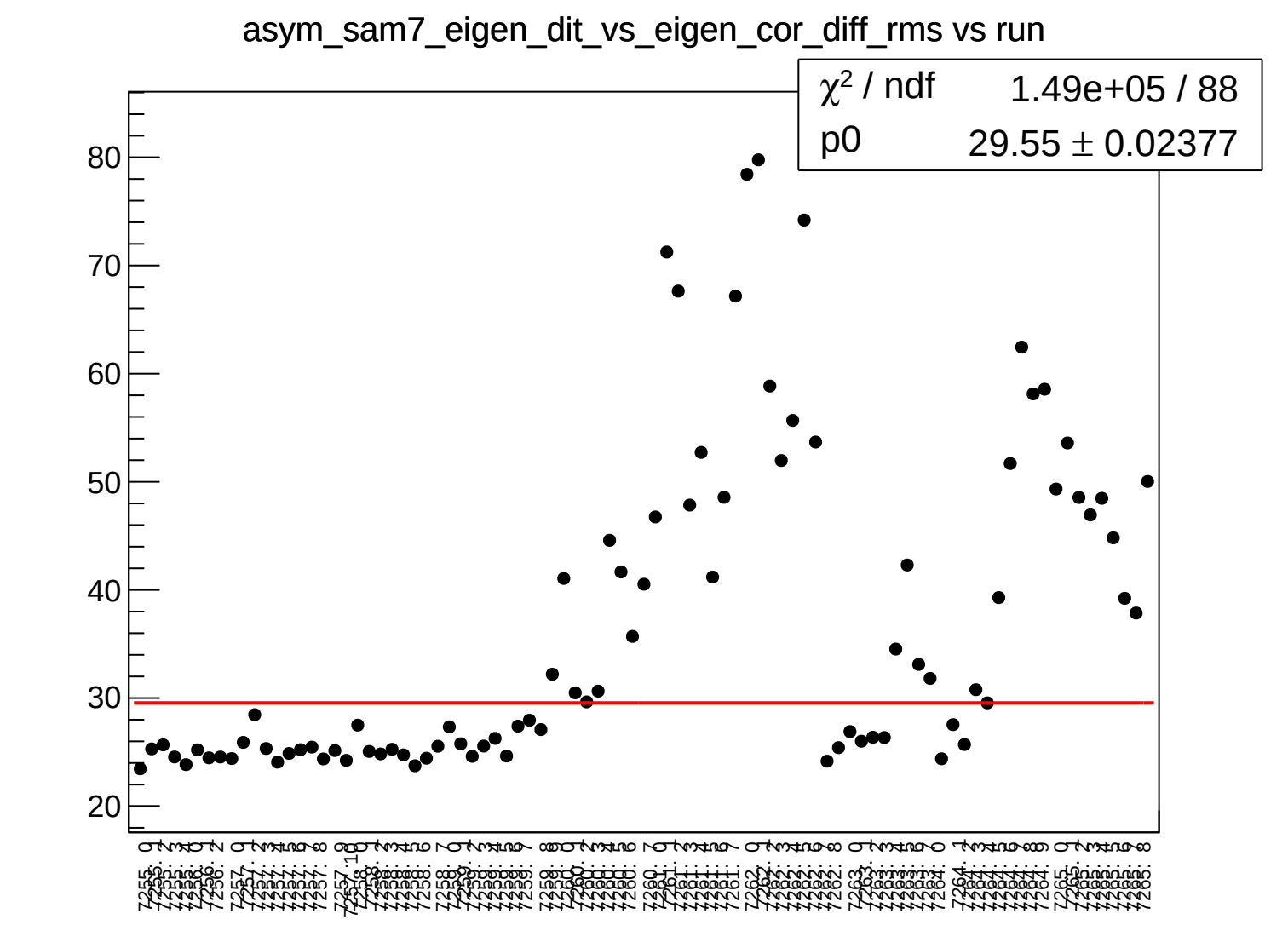

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.85 / 88
p0 −2.787e−06 ± 2.578e−06
pull
Entries 89
Mean −1005
Std Dev 0
pull1D
Entries 89
Mean −0.004597
Std Dev 1.038

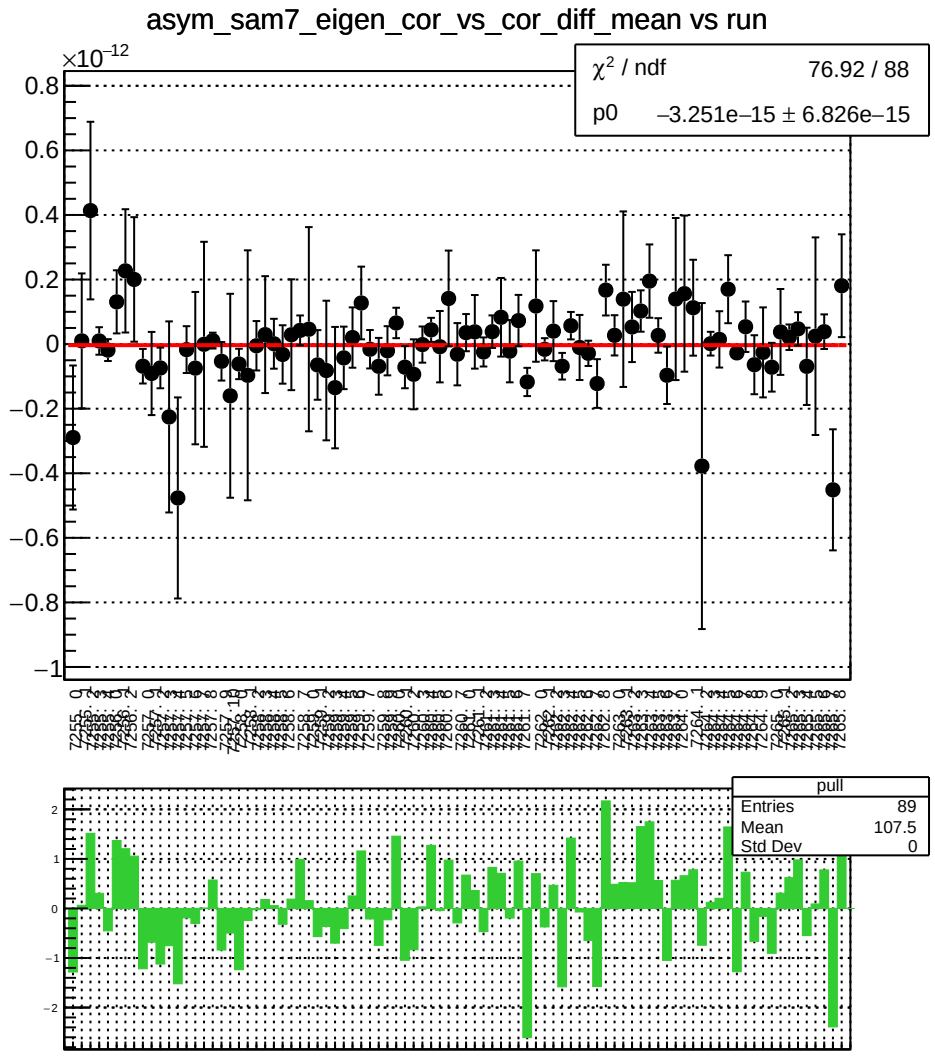

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6153 / 88
p0 0.002369 ± 1.823e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

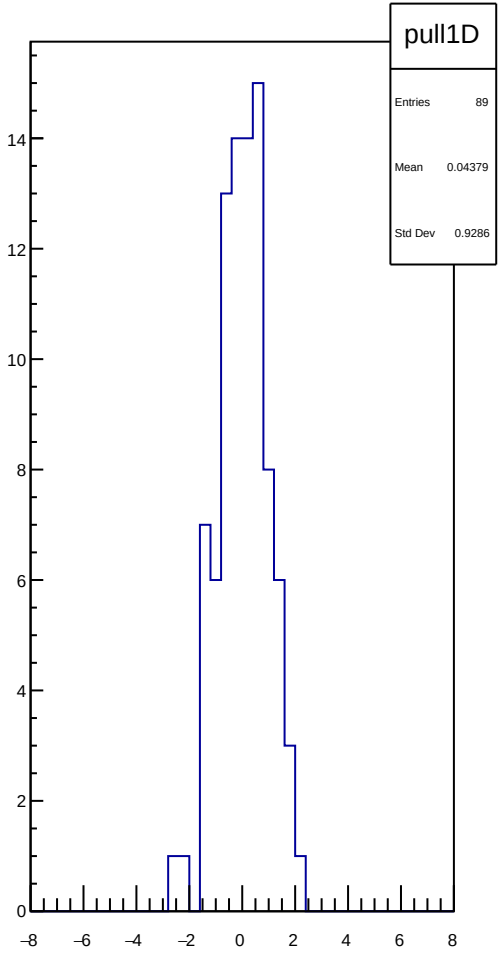

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.39 / 88
p0 0.03695 ± 0.03361
pull
Entries 89
Mean −61.55
Std Dev 0
pull1D
Entries 89
Mean −0.0279
Std Dev 0.9734

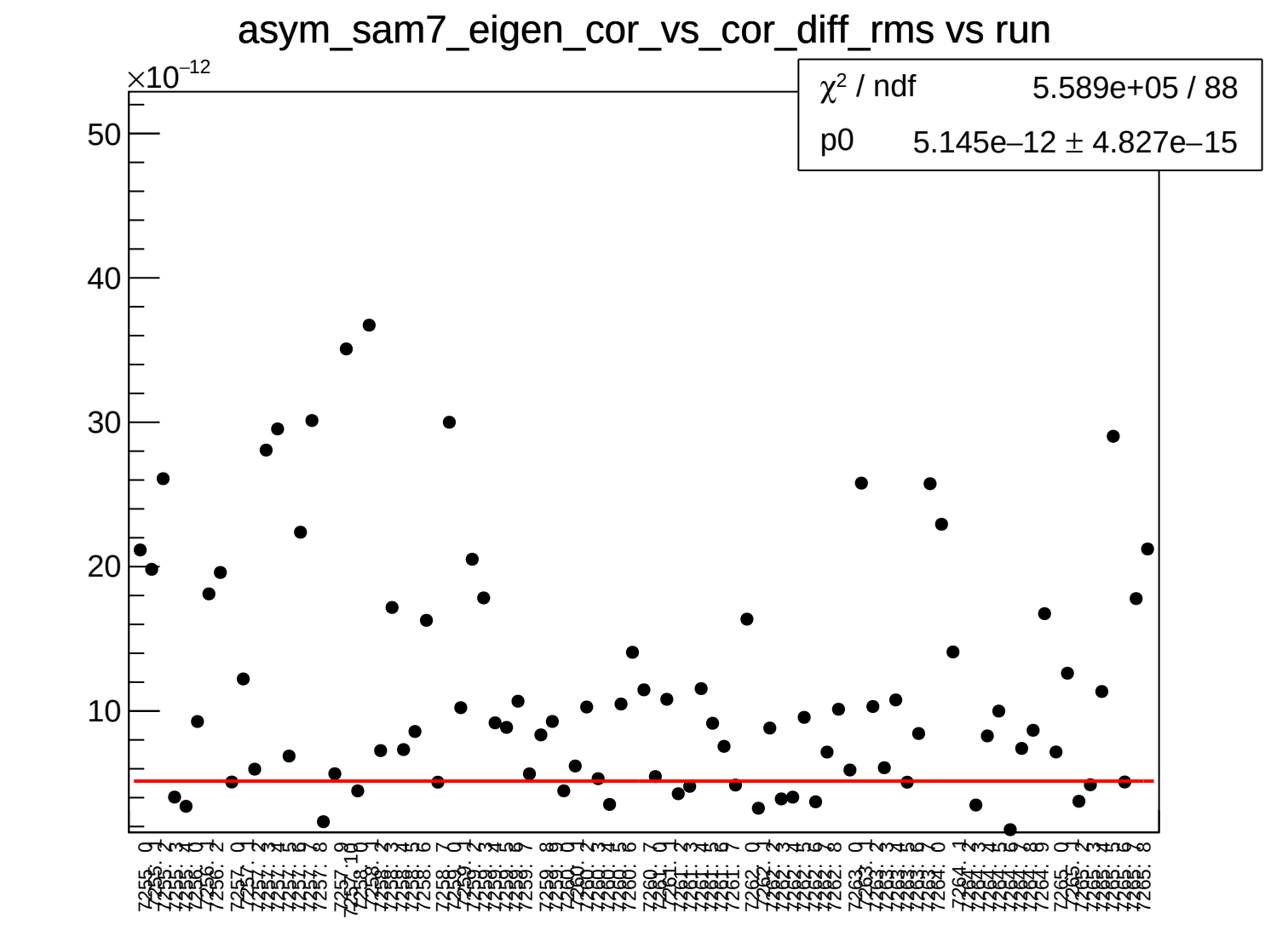

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.49e+05 / 88
p0 29.55 ± 0.02377
80
70
60
50
40
30
20

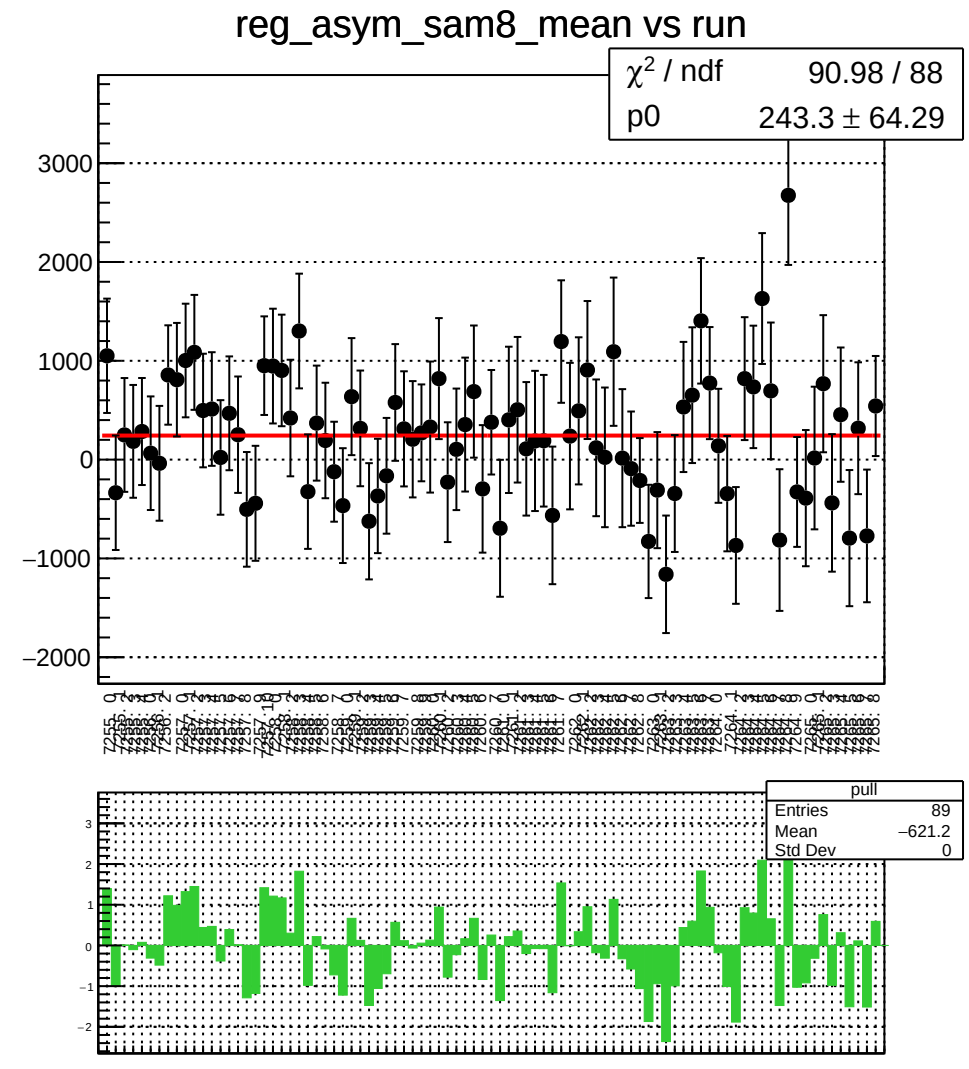

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.39 / 88
p0 0.03695 ± 0.03361
pull
Entries 89
Mean −61.55
Std Dev 0
pull1D
Entries 89
Mean −0.0279
Std Dev 0.9734

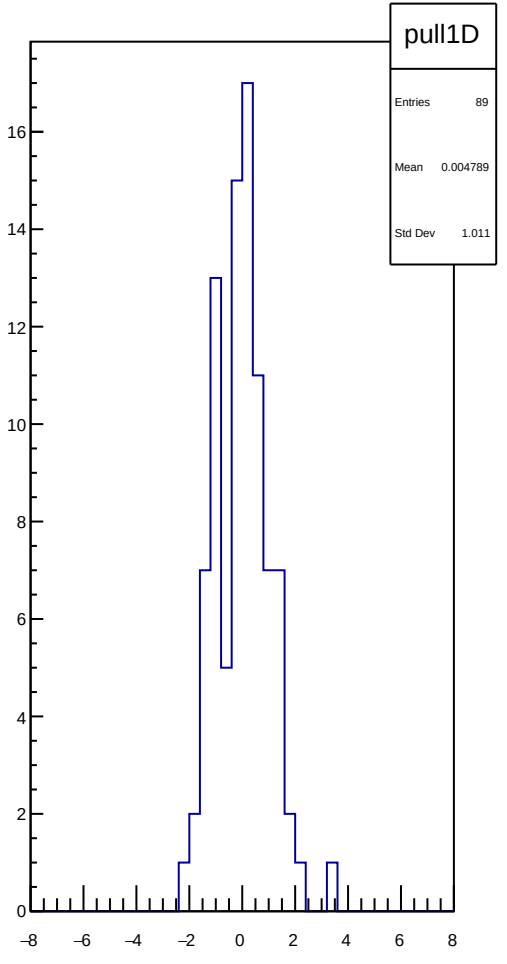

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.49e+05 / 88
p0 29.55 ± 0.02377
80
70
60
50
40
30
20

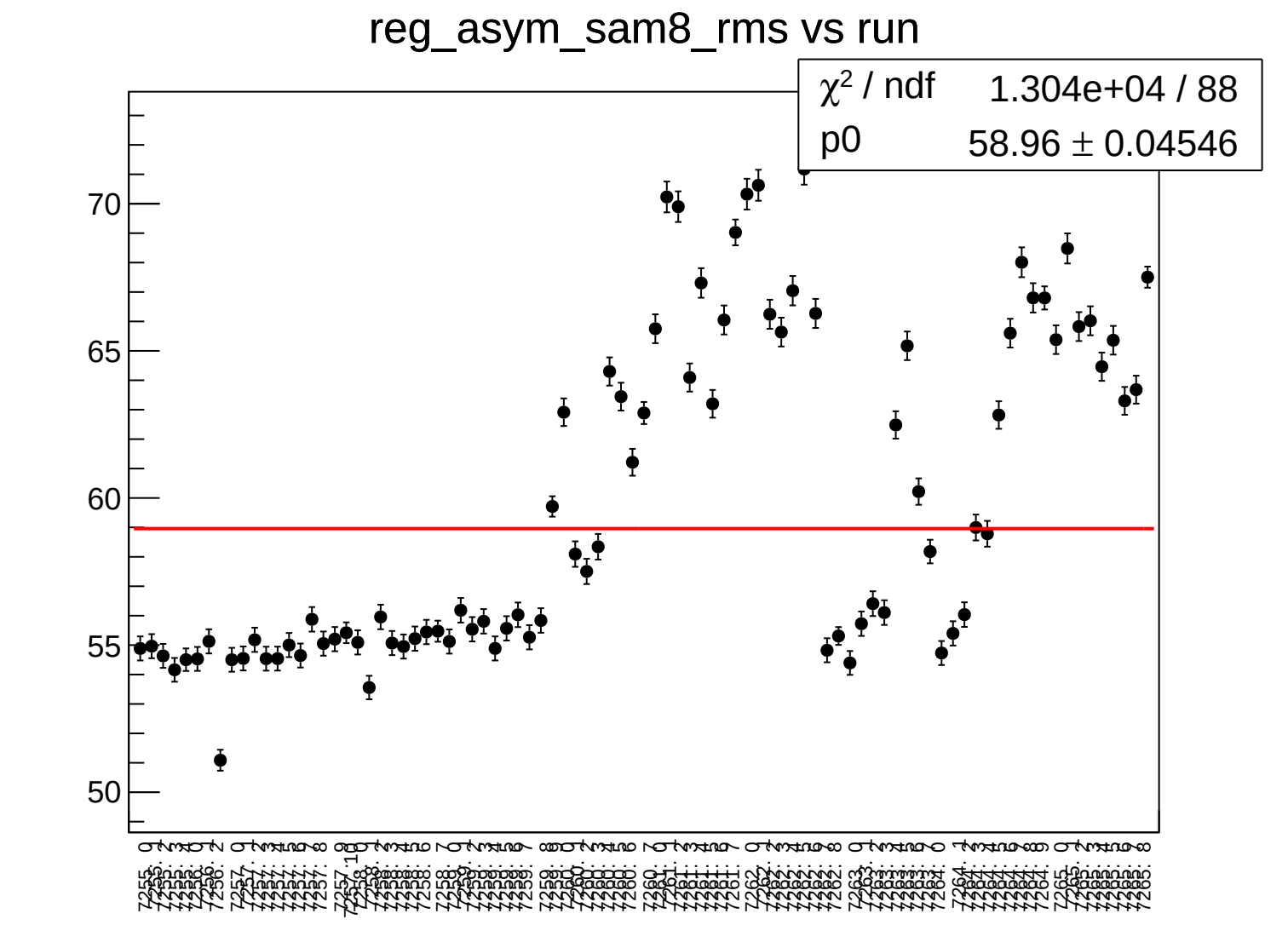

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.92 / 88
p0 −3.251e−15 ± 6.826e−15
pull
Entries 89
Mean 107.5
Std Dev 0

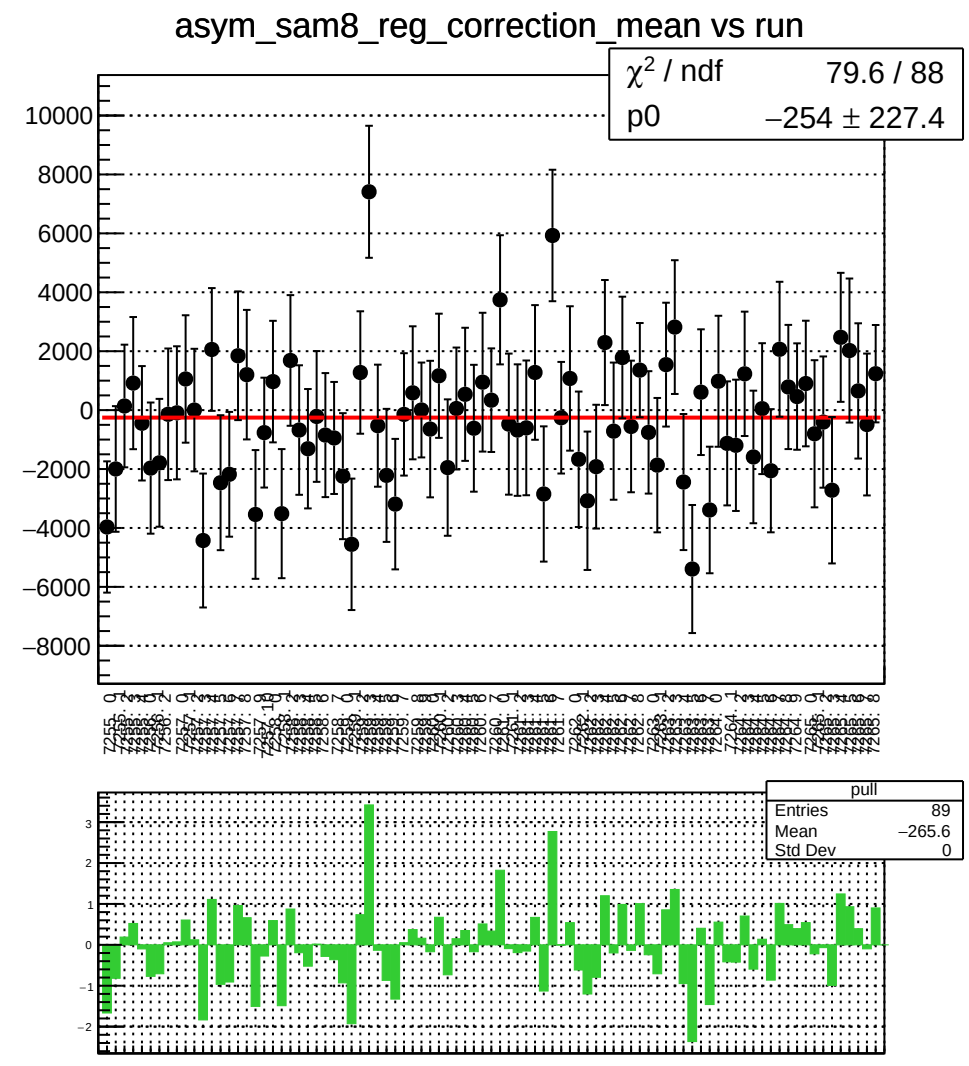

pull1D
Entries 89
Mean 0.04379
Std Dev 0.9286

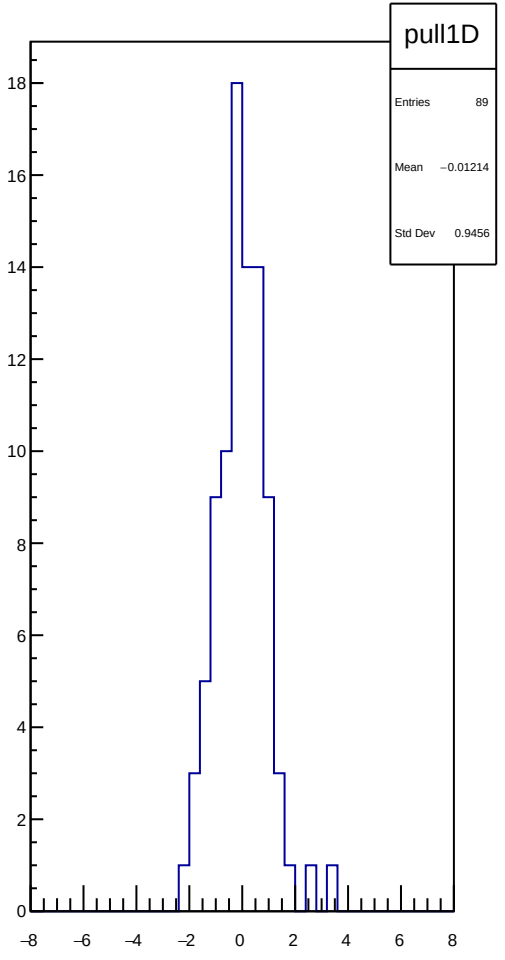

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.589e+05 / 88
p0 5.145e−12 ± 4.827e−15
50
40
30
20
10

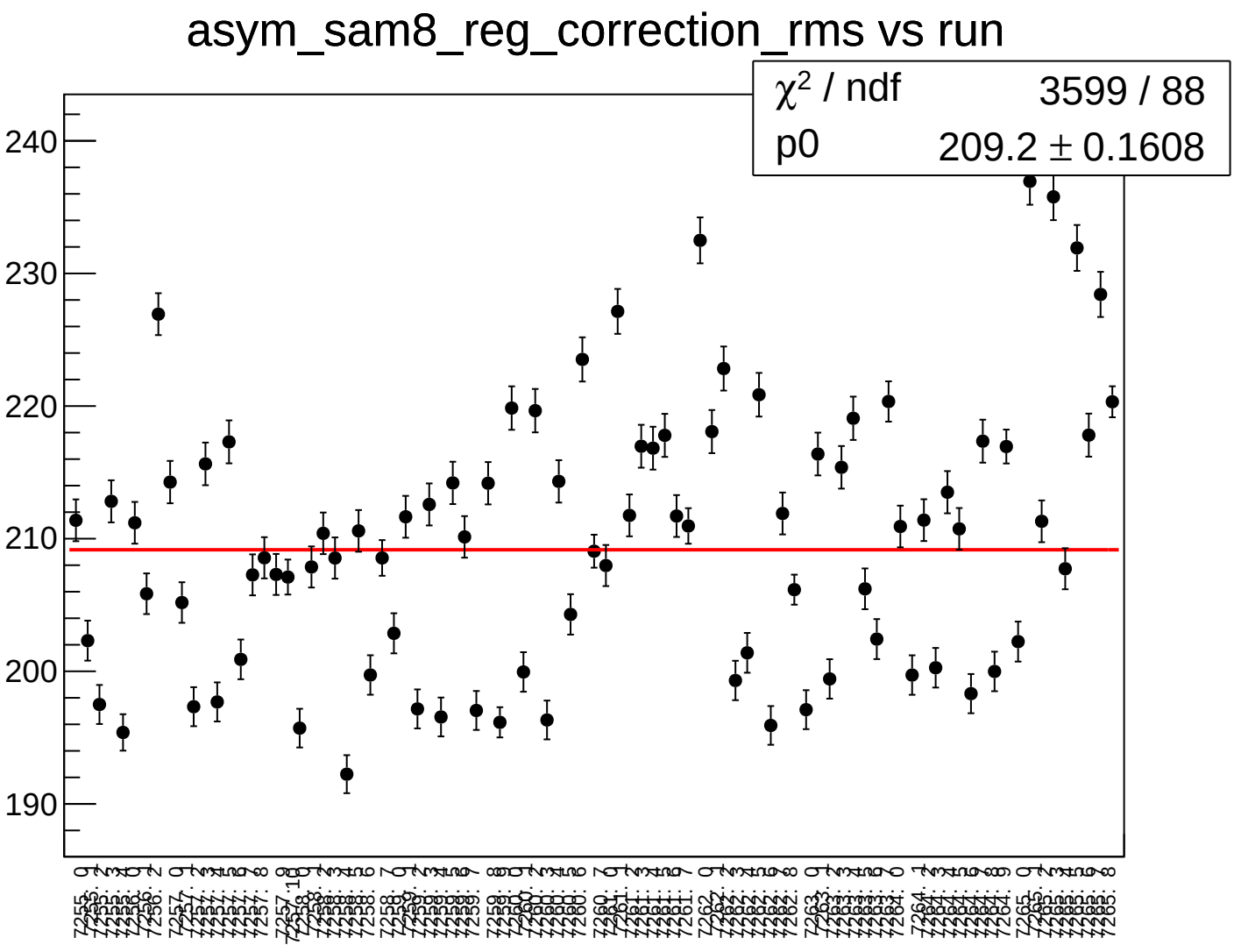

reg_asym_sam8_mean vs run
χ² / ndf 90.98 / 88
p0 243.3 ± 64.29
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −621.2
Std Dev 0
3
2
1
0
−1
−2

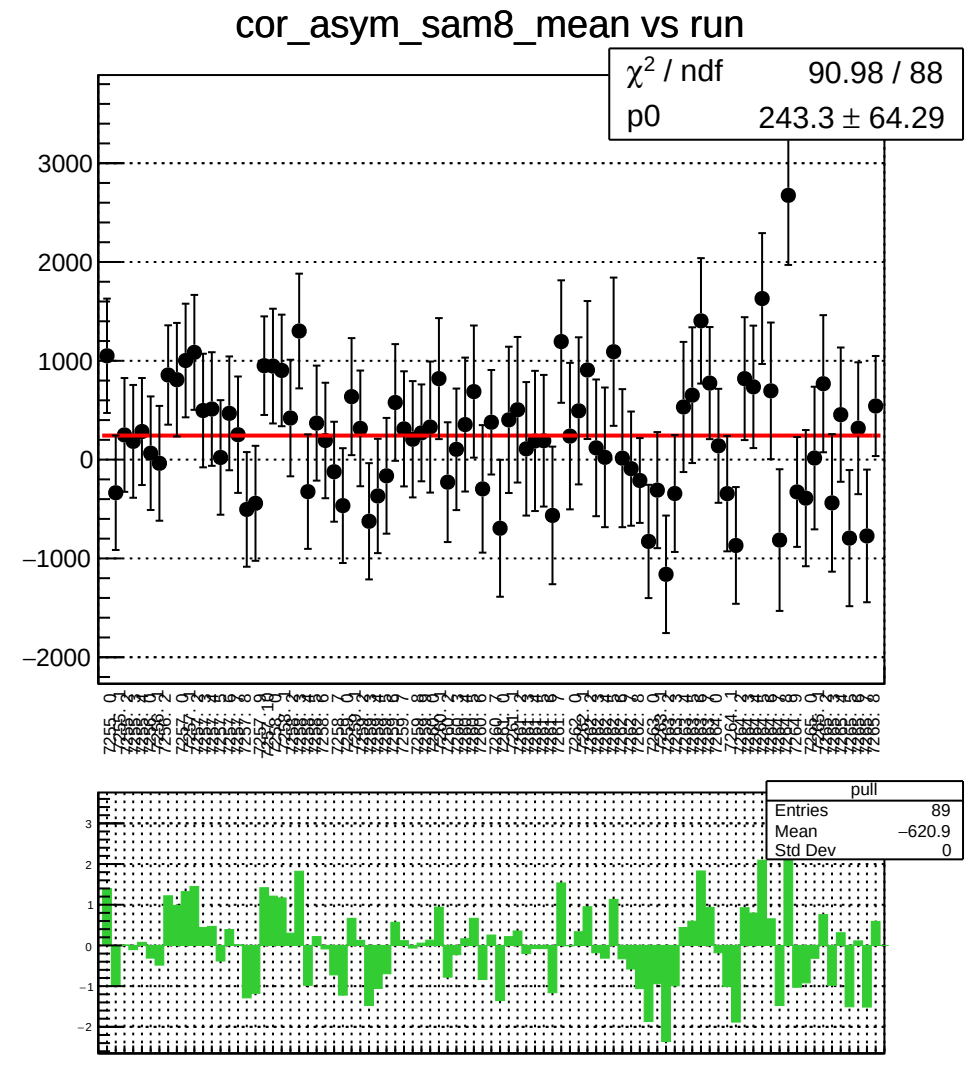

pull1D
Entries 89
Mean 0.004789
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

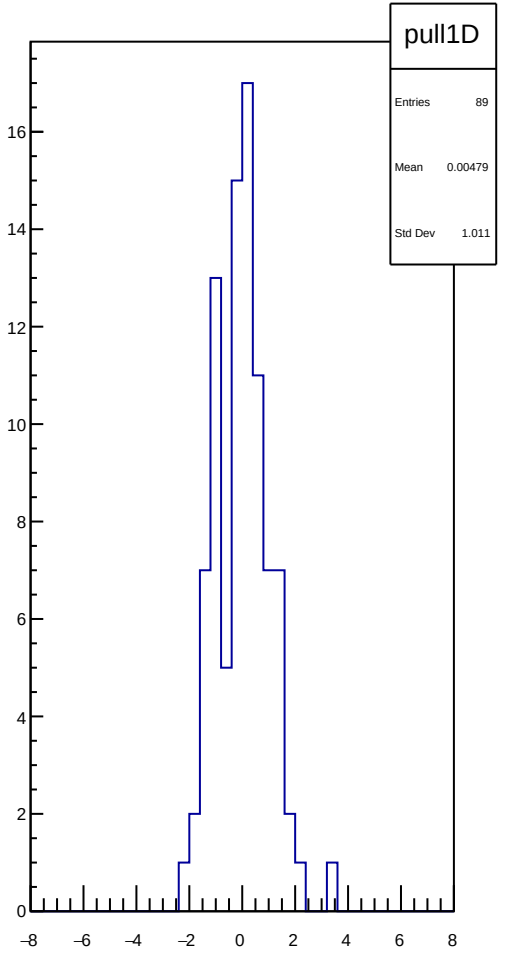

reg_asym_sam8_rms vs run
χ^2 / ndf 1.304e+04 / 88
p0 58.96 ± 0.04546
70
65
60
55
50

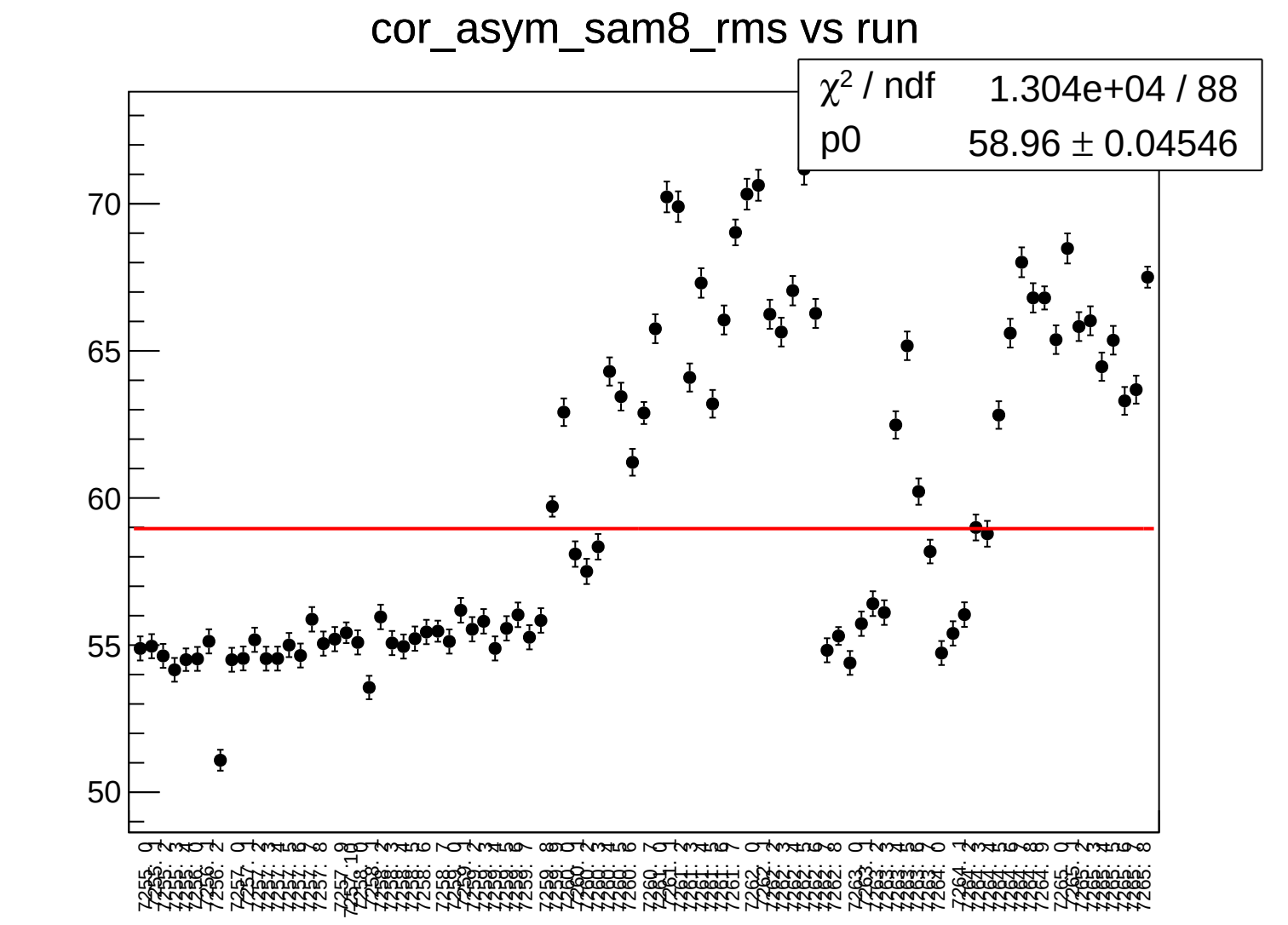

asym_sam8_reg_correction_mean vs run
χ² / ndf 79.6 / 88
p0 −254 ± 227.4
pull
Entries 89
Mean −265.6
Std Dev 0

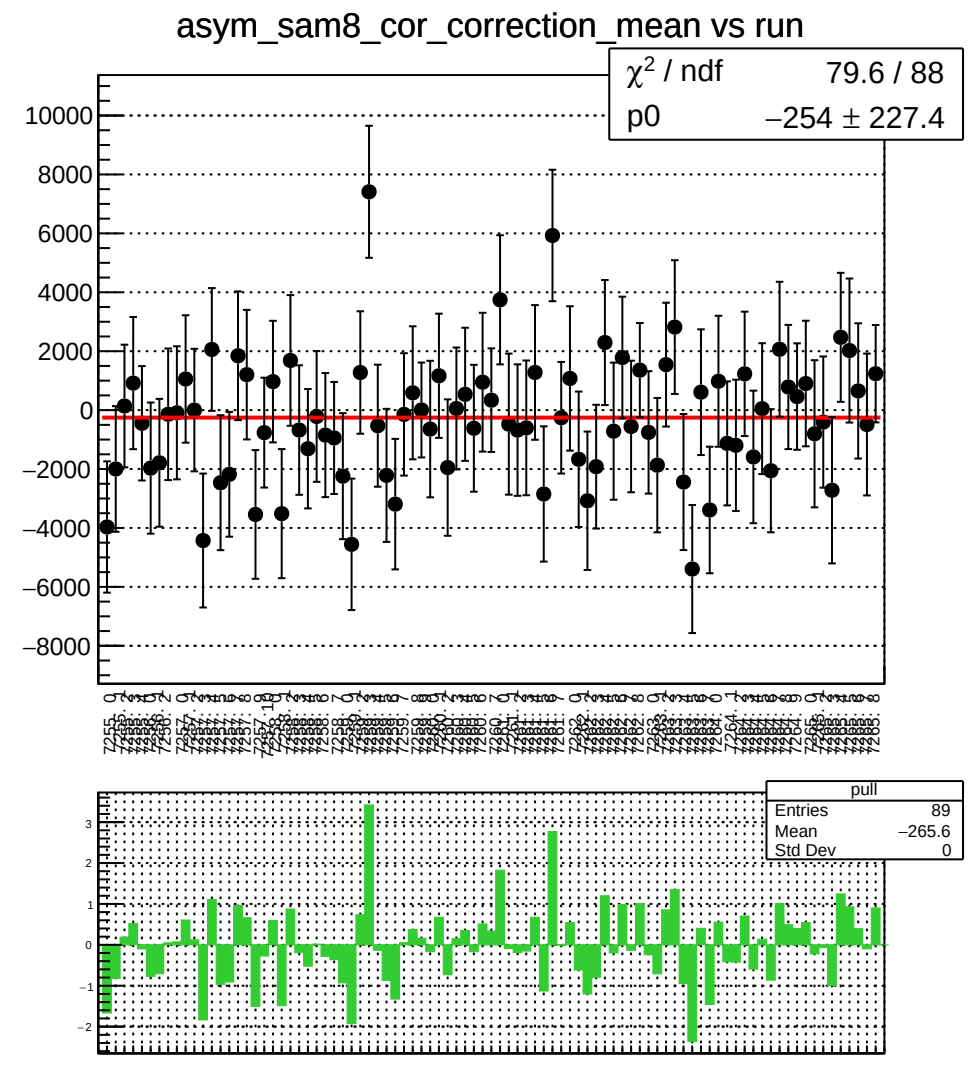

pull1D
Entries 89
Mean −0.01214
Std Dev 0.9456

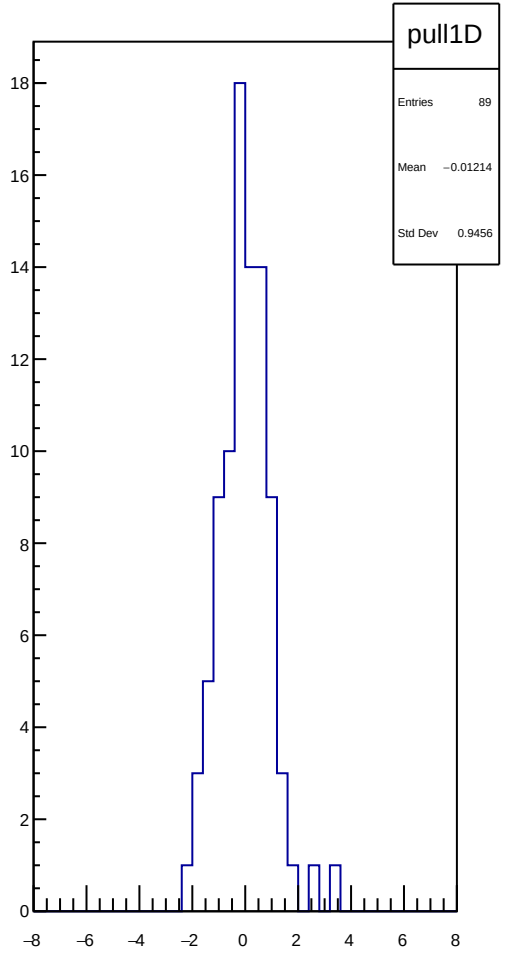

asym_sam8_reg_correction_rms vs run
χ² / ndf 3599 / 88
p0 209.2 ± 0.1608
240
230
220
210
200
190

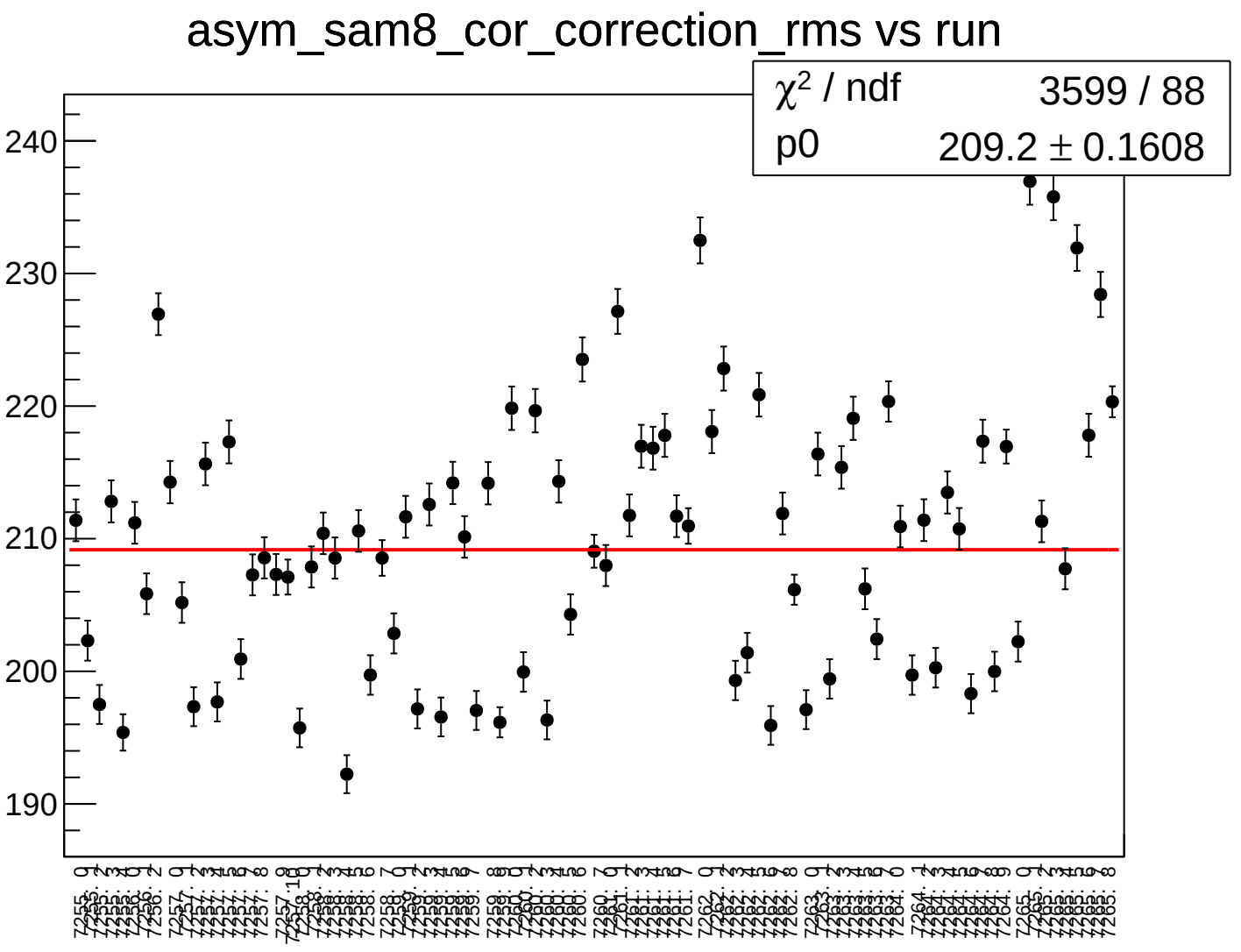

cor_asym_sam8_mean vs run
χ² / ndf 90.98 / 88
p0 243.3 ± 64.29
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −620.9
Std Dev 0
3
2
1
0
−1
−2

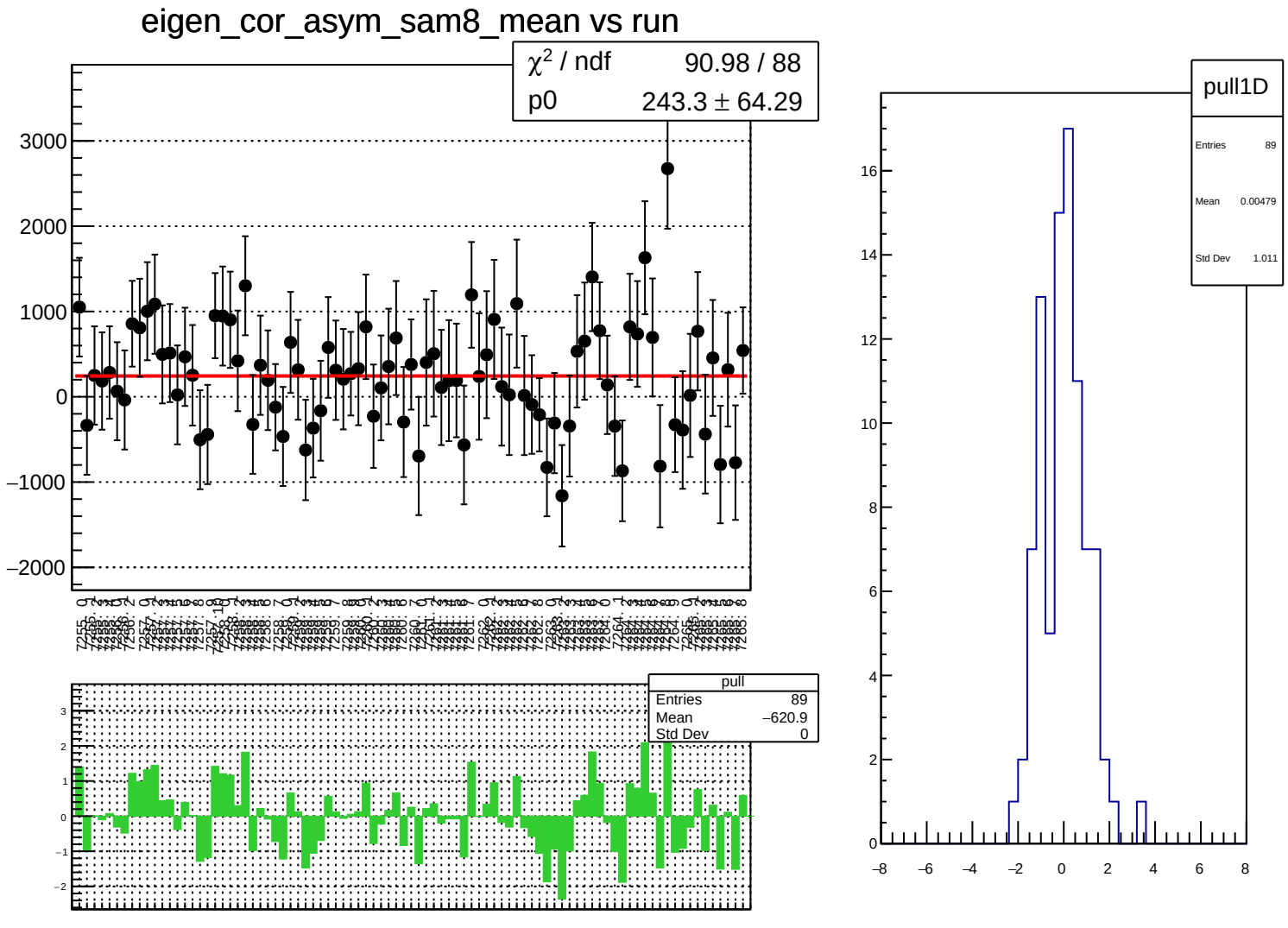

pull1D
Entries 89
Mean 0.00479
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

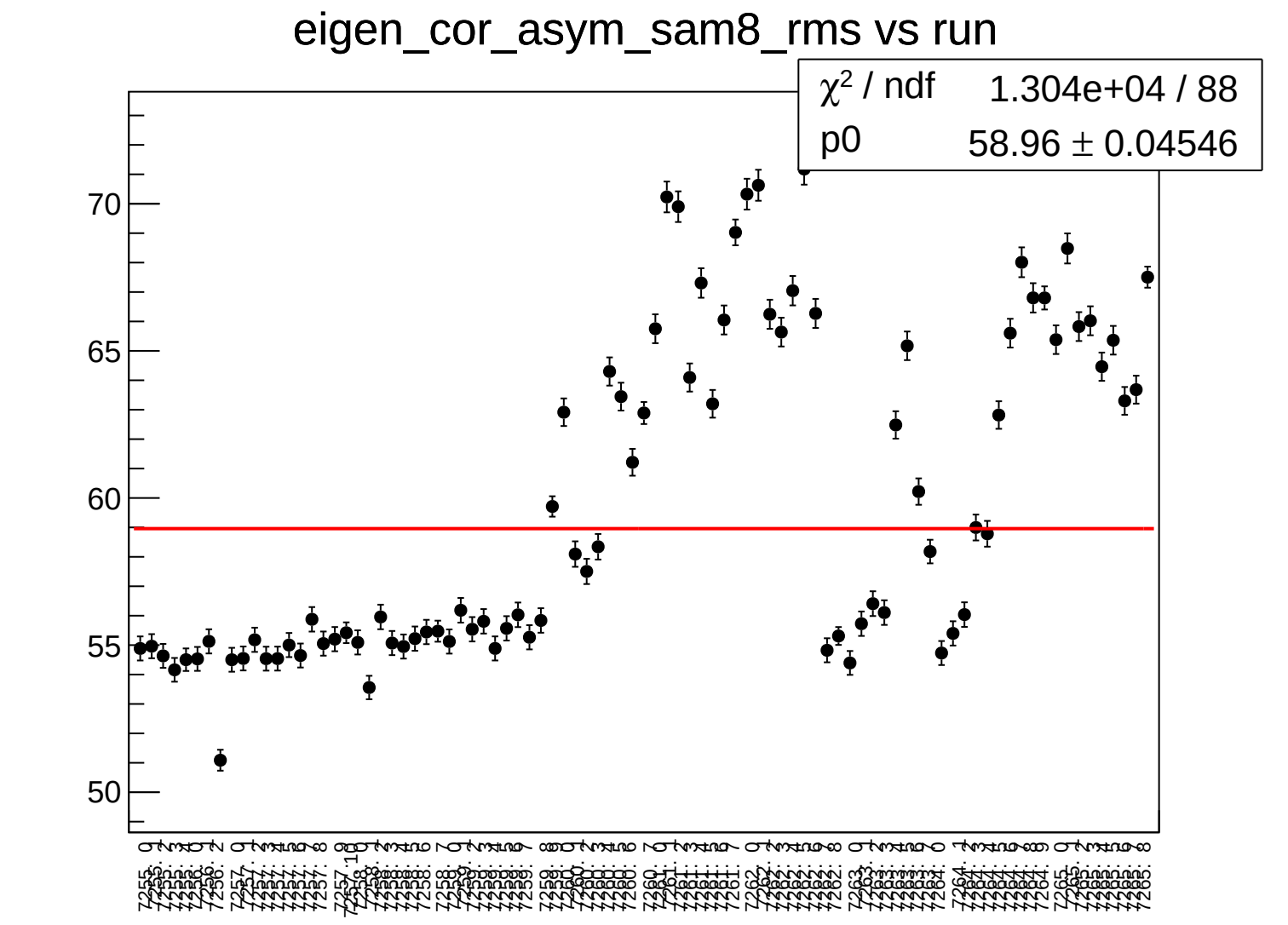

cor_asym_sam8_rms vs run
χ^2 / ndf 1.304e+04 / 88
p0 58.96 ± 0.04546
70
65
60
55
50

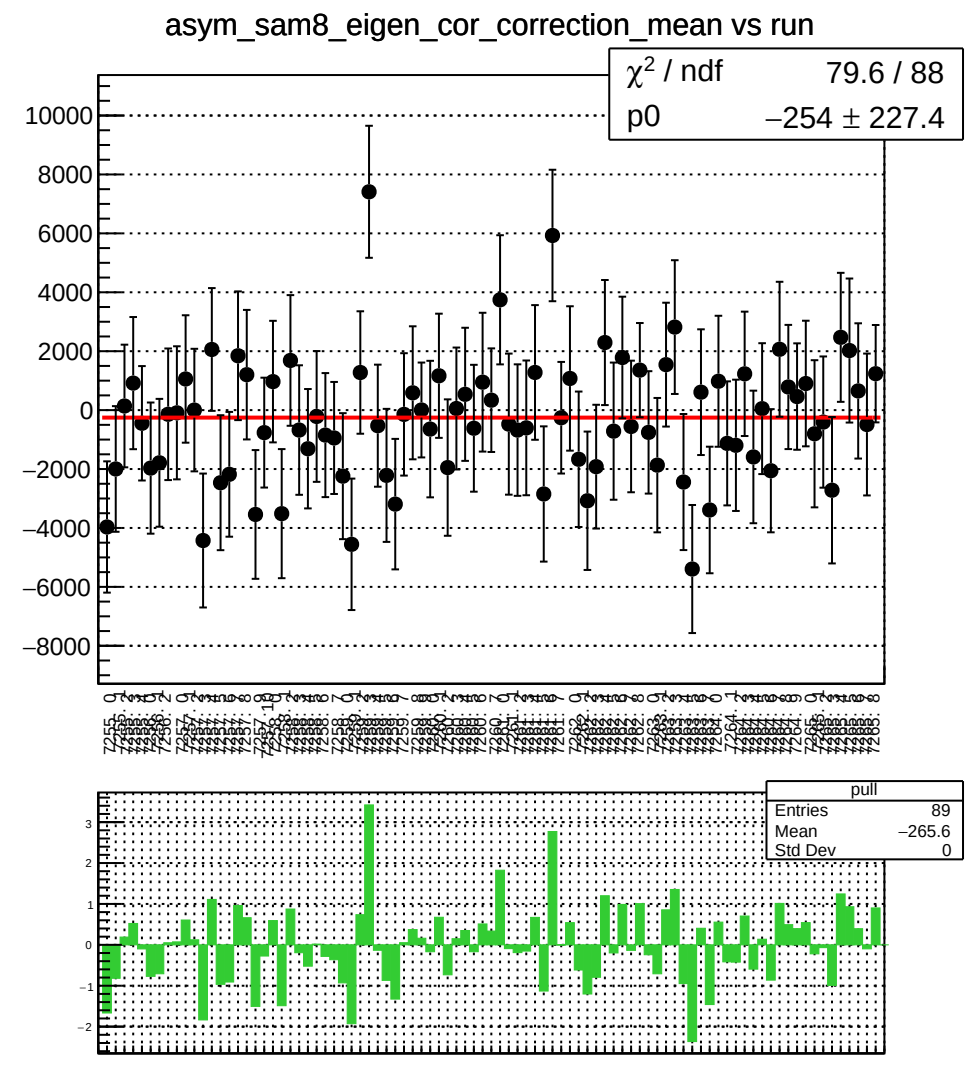

asym_sam8_cor_correction_mean vs run
χ² / ndf 79.6 / 88
p0 −254 ± 227.4
pull
Entries 89
Mean −265.6
Std Dev 0

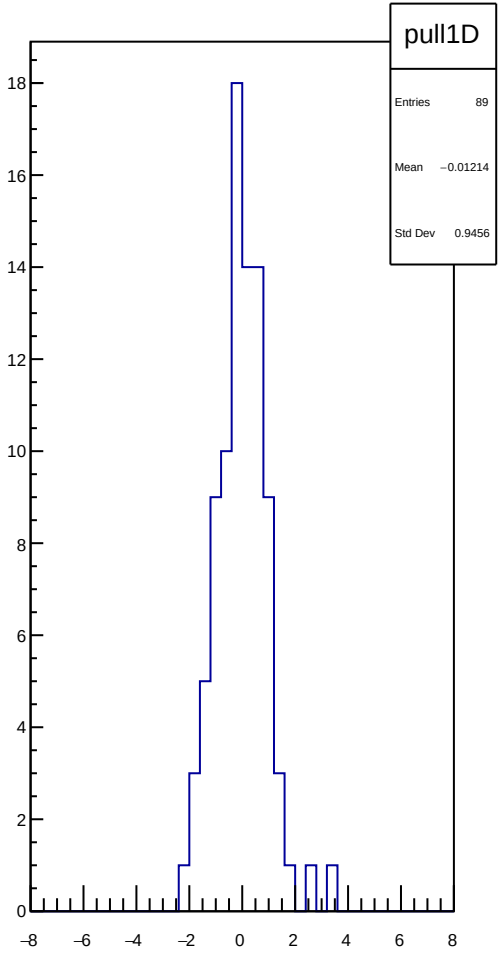

pull1D
Entries 89
Mean −0.01214
Std Dev 0.9456

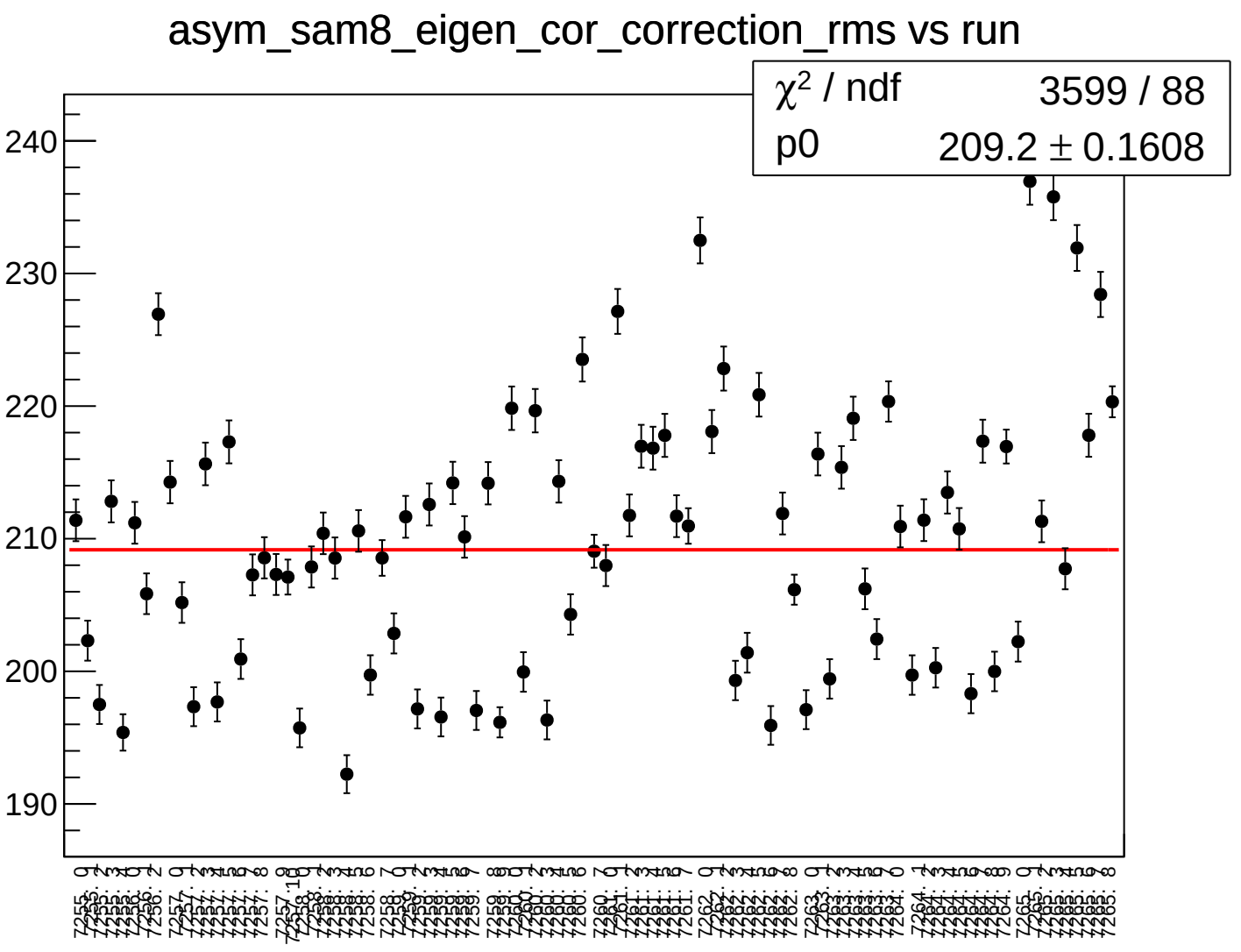

asym_sam8_cor_correction_rms vs run
χ² / ndf 3599 / 88
p0 209.2 ± 0.1608
240
230
220
210
200
190

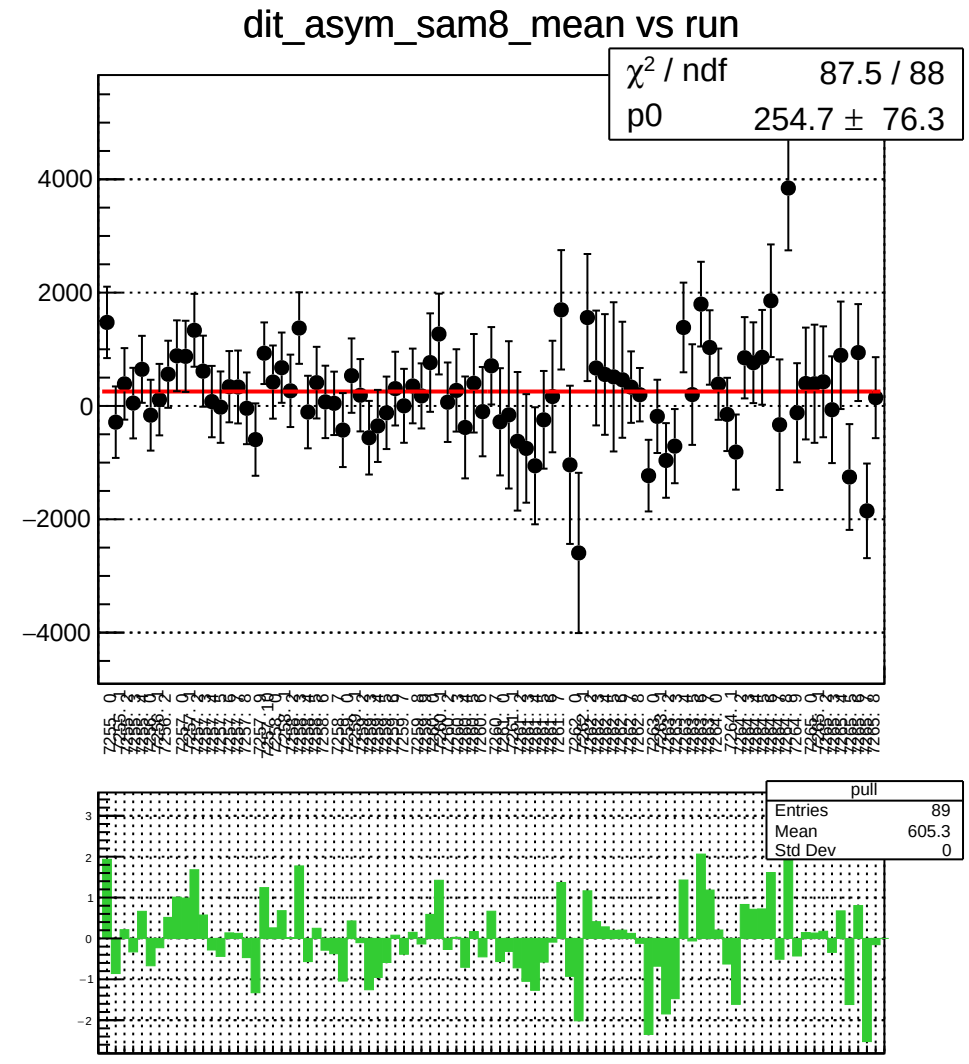

eigen_cor_asym_sam8_mean vs run
χ² / ndf 90.98 / 88
p0 243.3 ± 64.29
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −620.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.00479
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

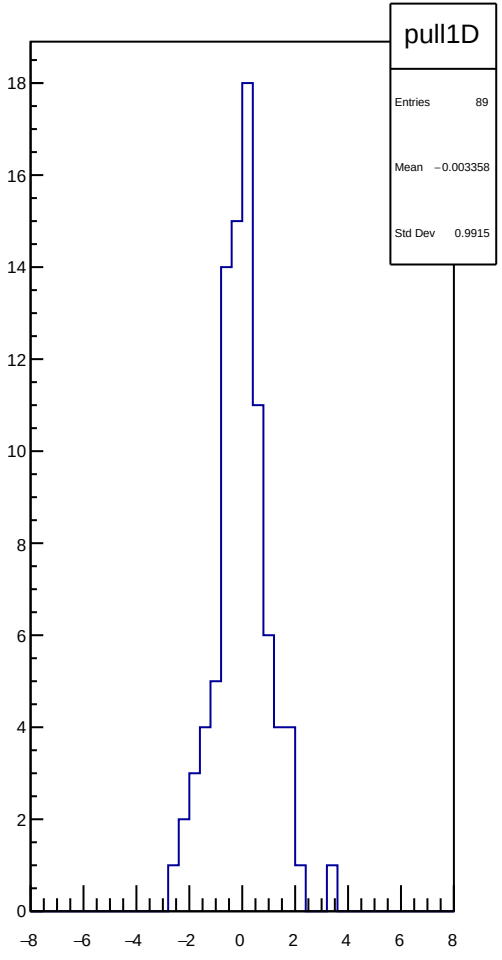

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 1.304e+04 / 88
p0 58.96 ± 0.04546
70
65
60
55
50

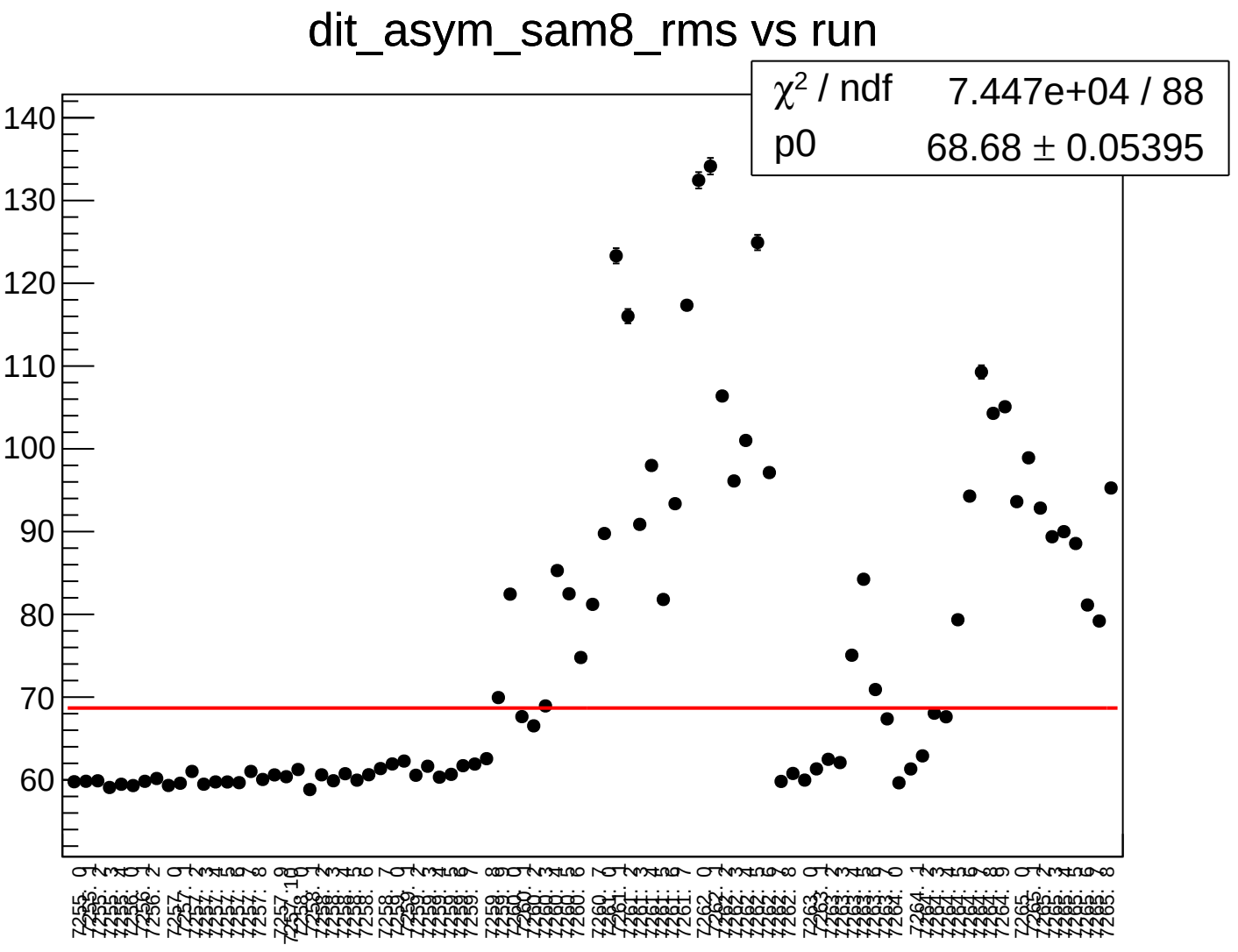

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 79.6 / 88
p0 −254 ± 227.4
pull
Entries 89
Mean −265.6
Std Dev 0

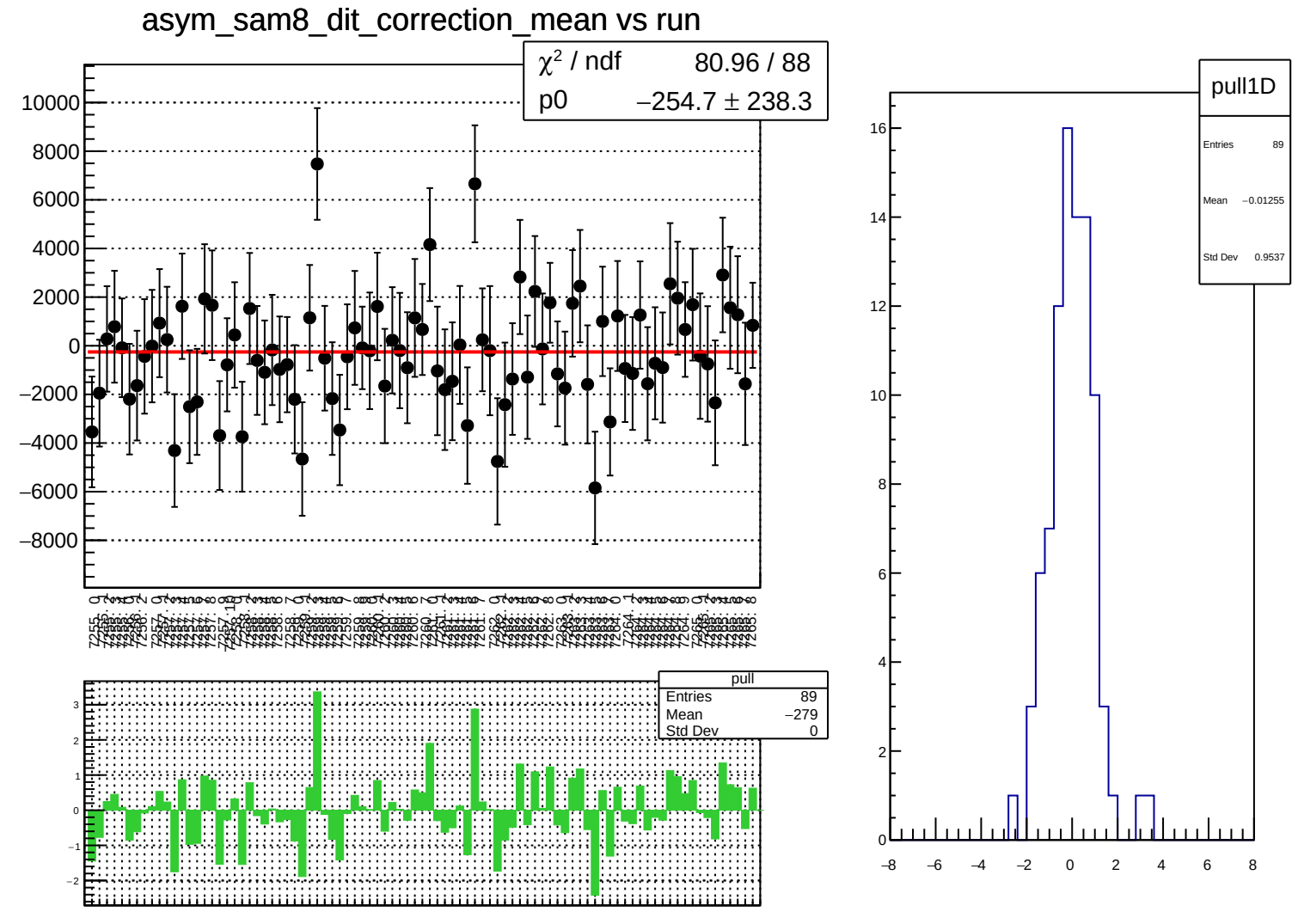

pull1D
Entries 89
Mean −0.01214
Std Dev 0.9456

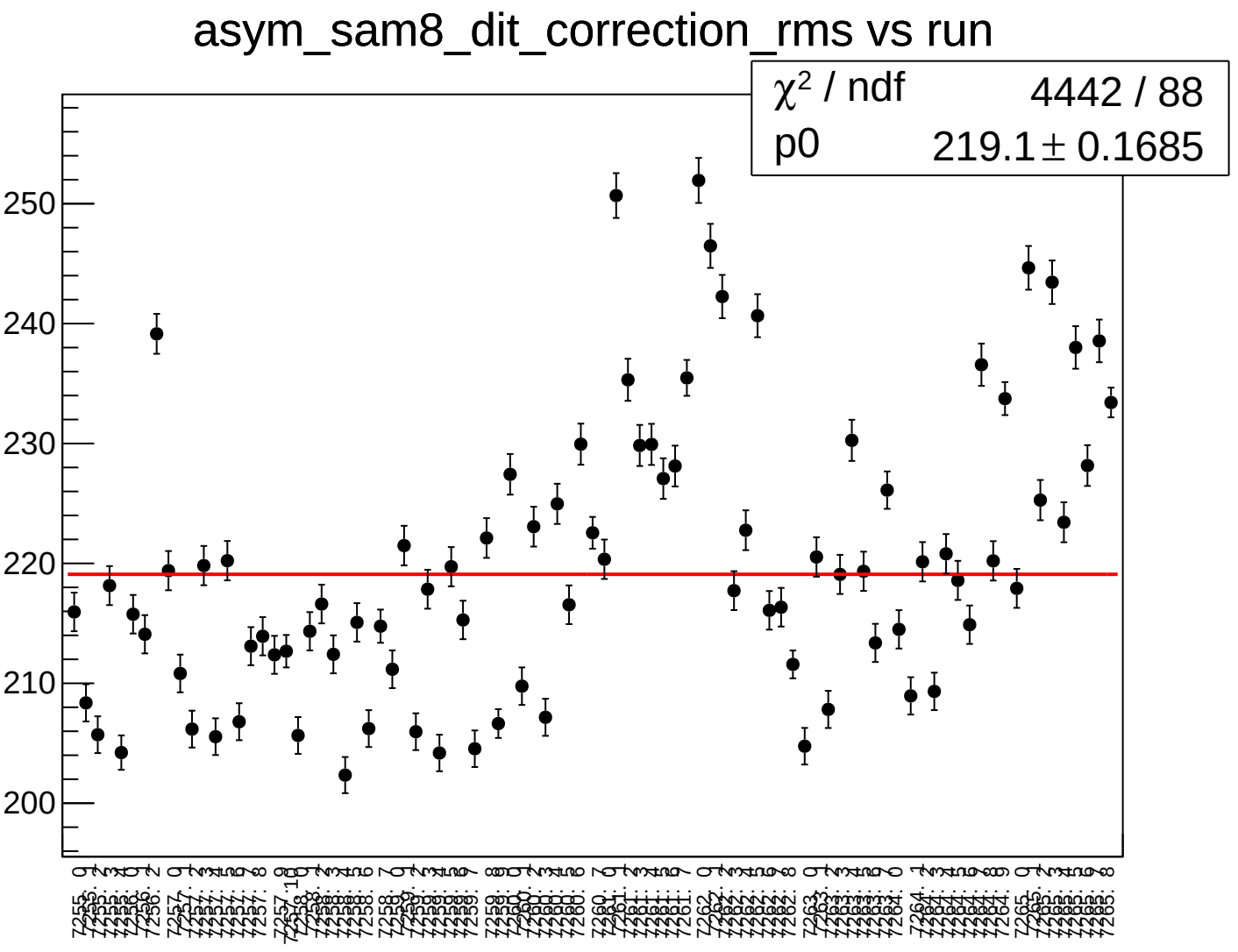

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 3599 / 88
p0 209.2 ± 0.1608
240
230
220
210
200
190

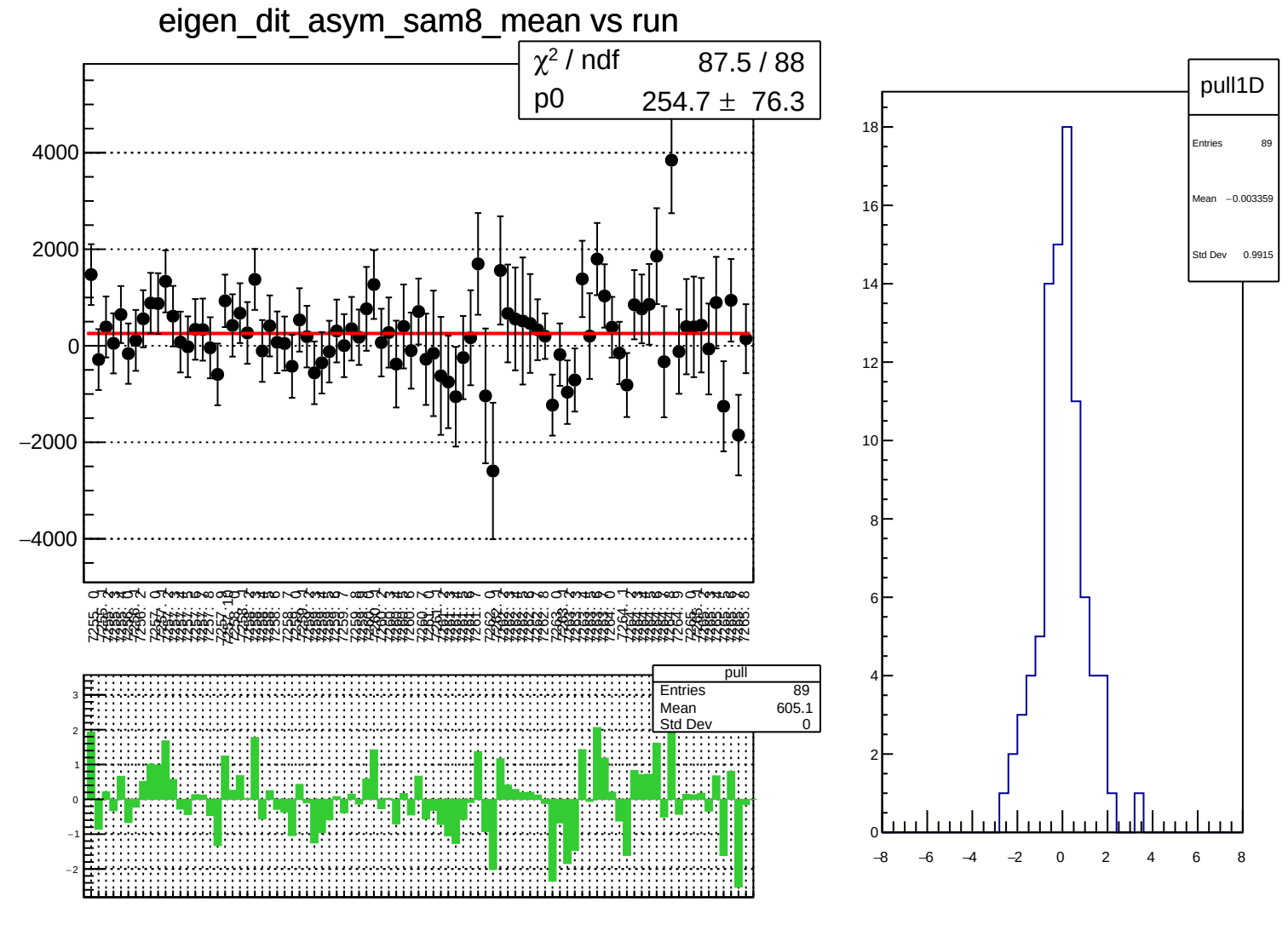

dit_asym_sam8_mean vs run
χ² / ndf 87.5 / 88
p0 254.7 ± 76.3
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 605.3
Std Dev 0
3
2
1
0
−1
−2

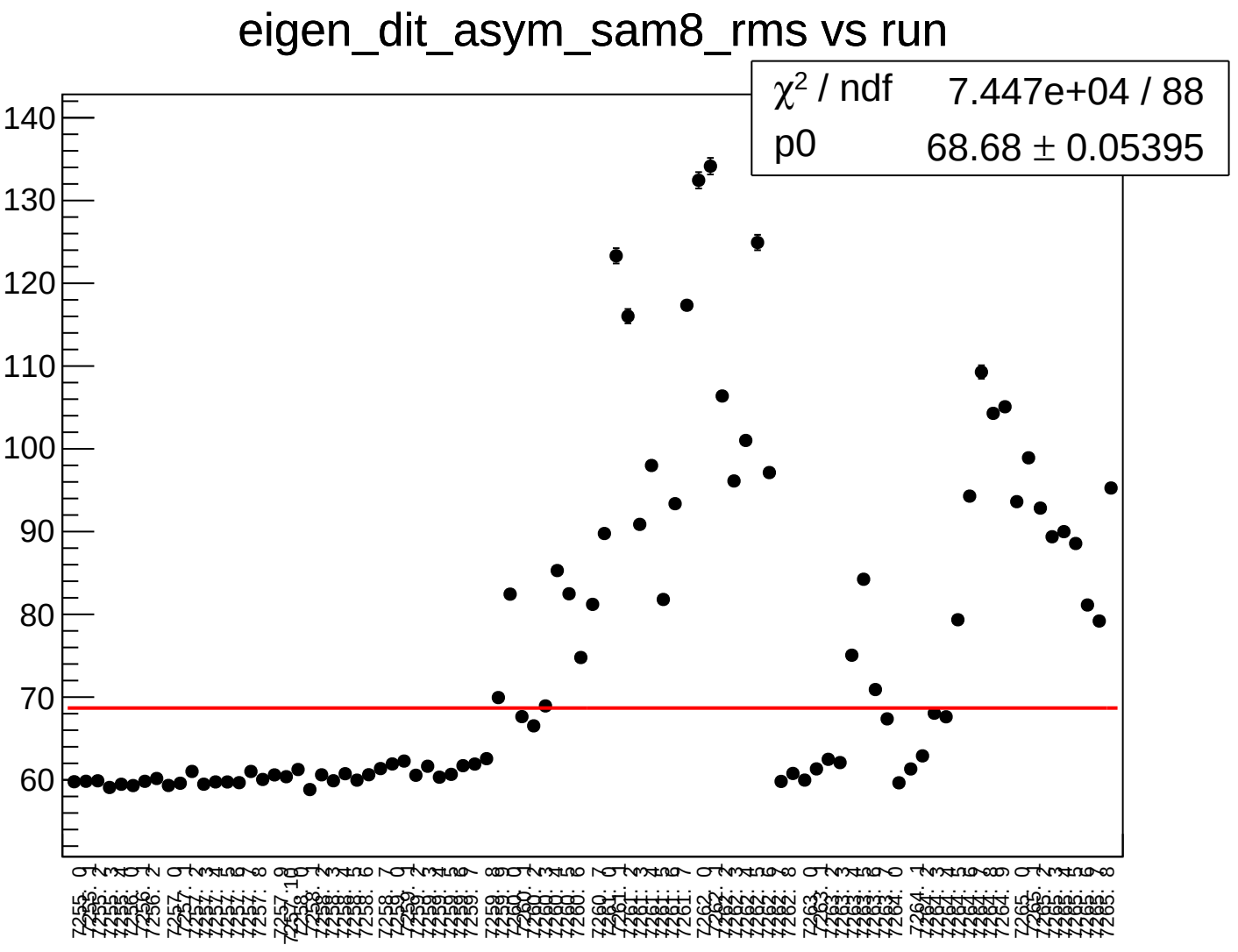

pull1D
Entries 89
Mean −0.003358
Std Dev 0.9915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

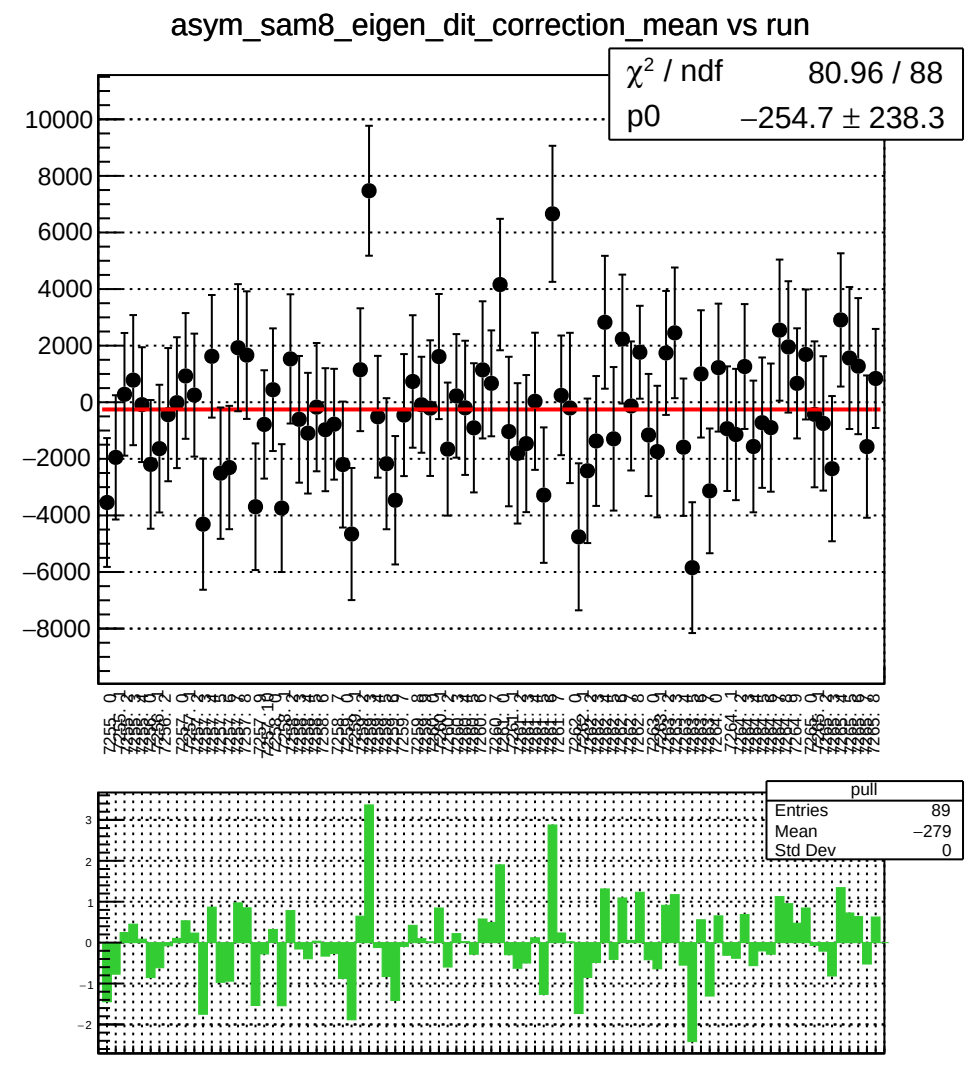

dit_asym_sam8_rms vs run
χ^2 / ndf 7.447e+04 / 88
p0 68.68 ± 0.05395
140
130
120
110
100
90
80
70
60

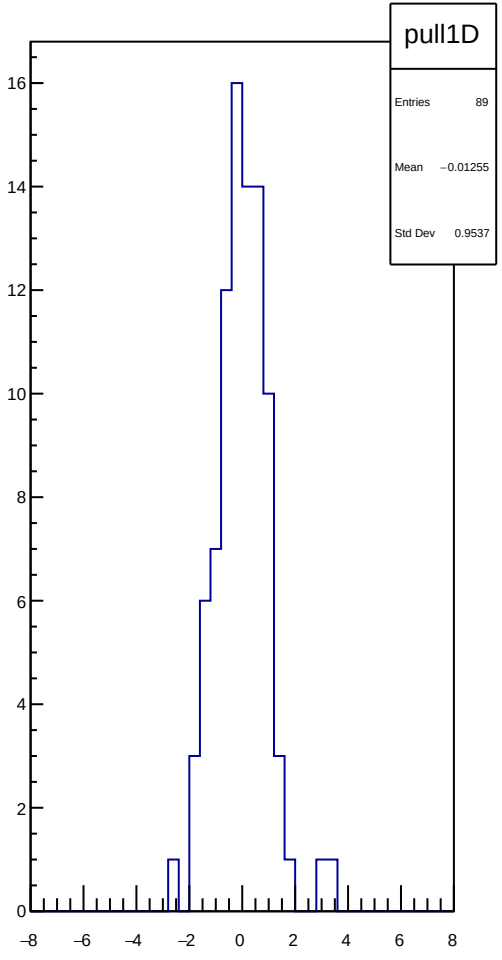

asym_sam8_dit_correction_mean vs run
χ² / ndf 80.96 / 88
p0 −254.7 ± 238.3
pull
Entries 89
Mean −279
Std Dev 0
pull1D
Entries 89
Mean −0.01255
Std Dev 0.9537

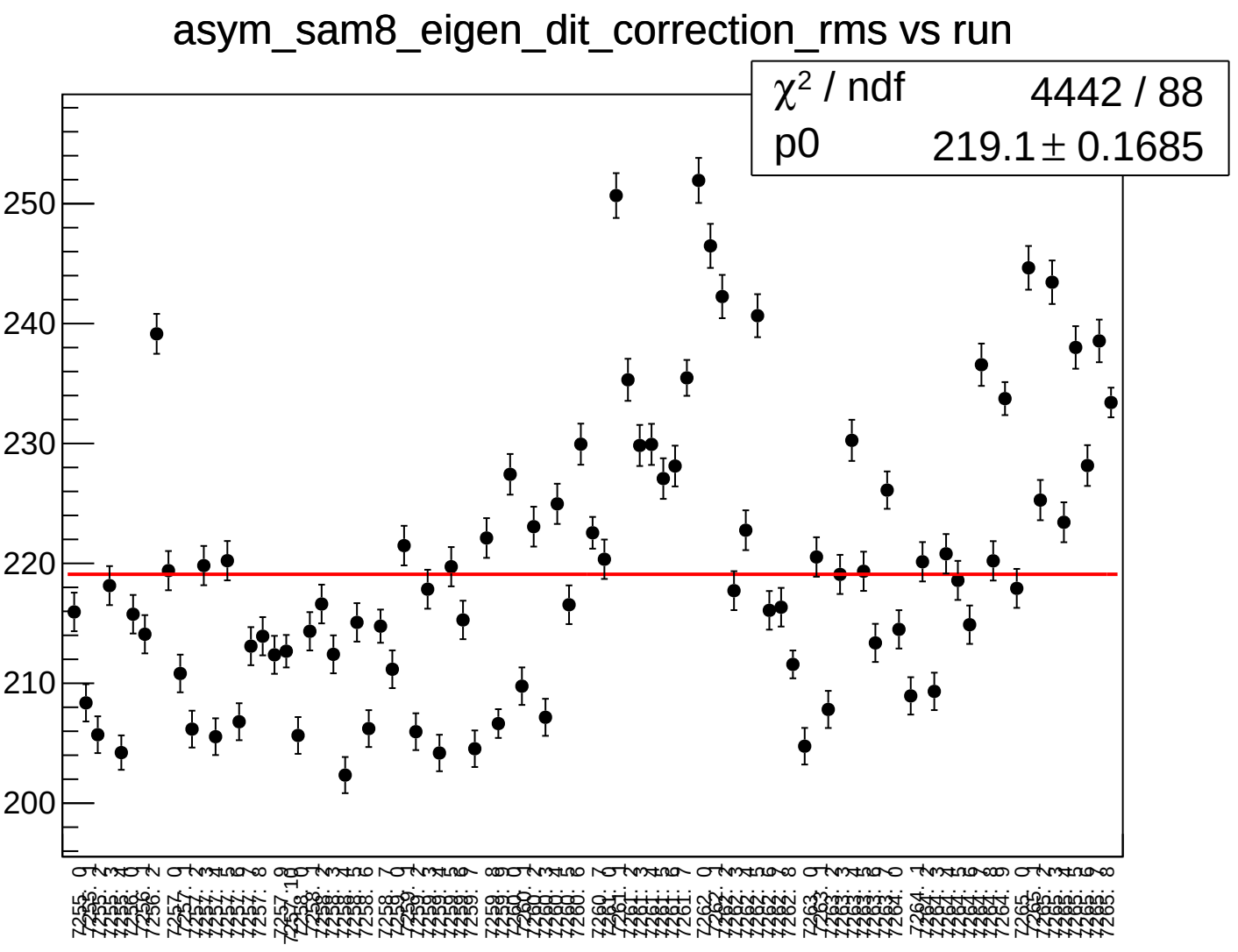

asym_sam8_dit_correction_rms vs run
χ² / ndf 4442 / 88
p0 219.1 ± 0.1685
250
240
230
220
210
200

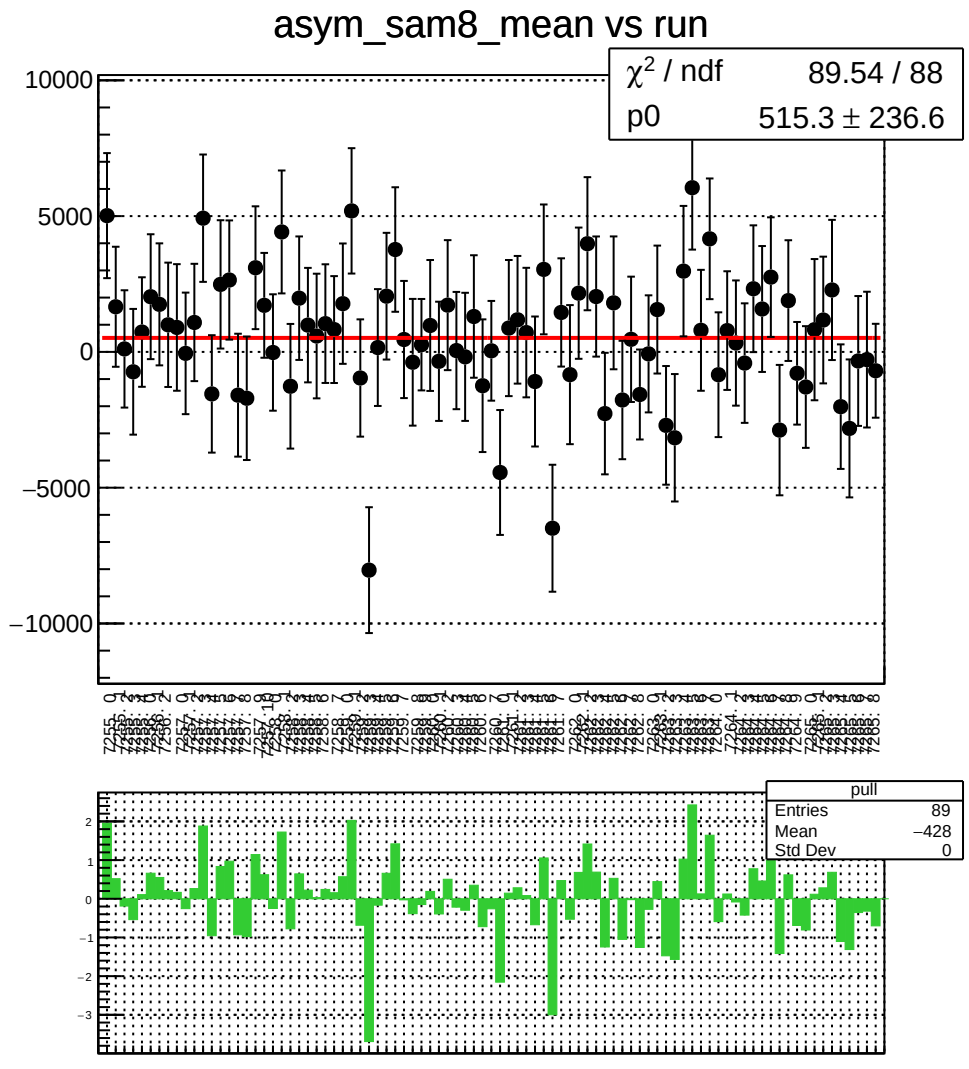

eigen_dit_asym_sam8_mean vs run
χ² / ndf 87.5 / 88
p0 254.7 ± 76.3
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 605.1
Std Dev 0
pull1D
Entries 89
Mean −0.003359
Std Dev 0.9915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

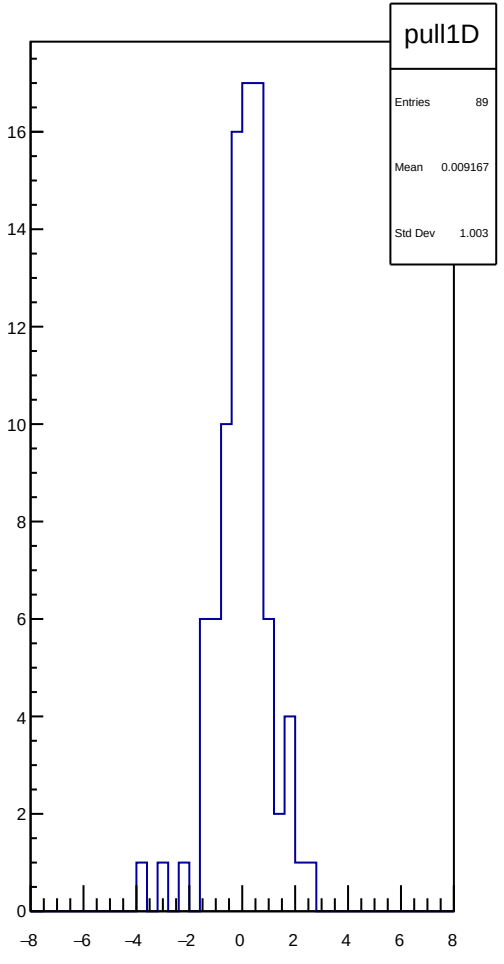

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 7.447e+04 / 88
p0 68.68 ± 0.05395
140
130
120
110
100
90
80
70
60

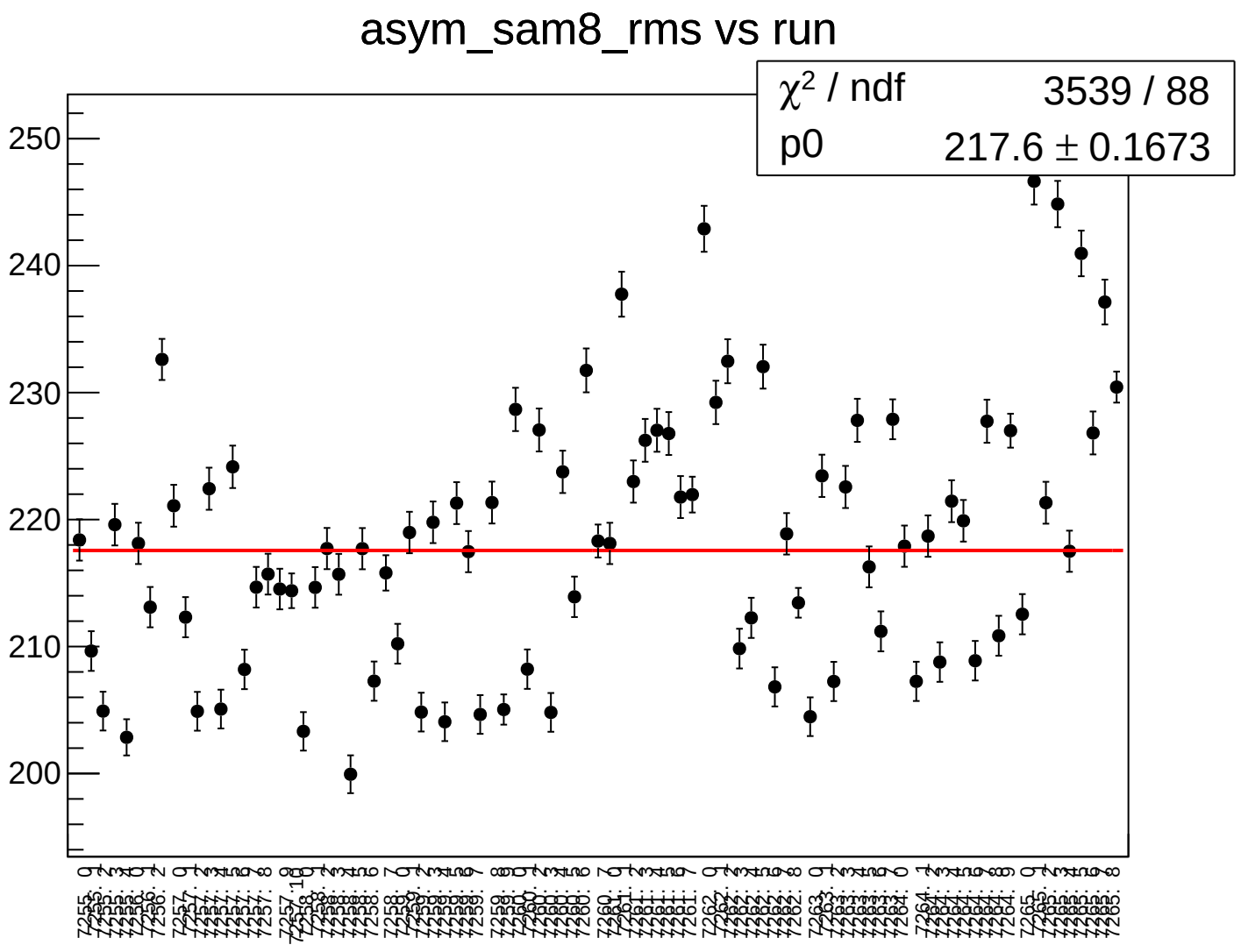

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 80.96 / 88
p0 −254.7 ± 238.3
pull
Entries 89
Mean −279
Std Dev 0

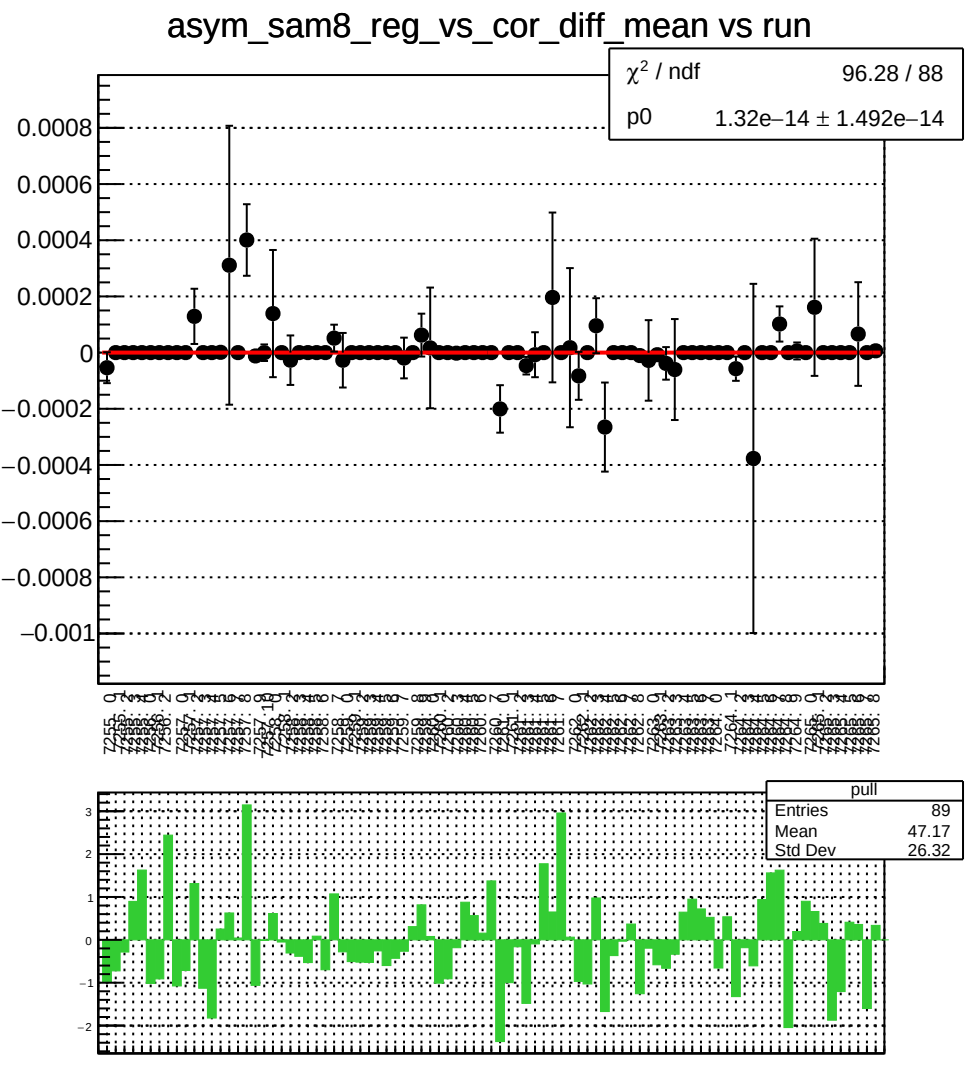

pull1D
Entries 89
Mean −0.01255
Std Dev 0.9537

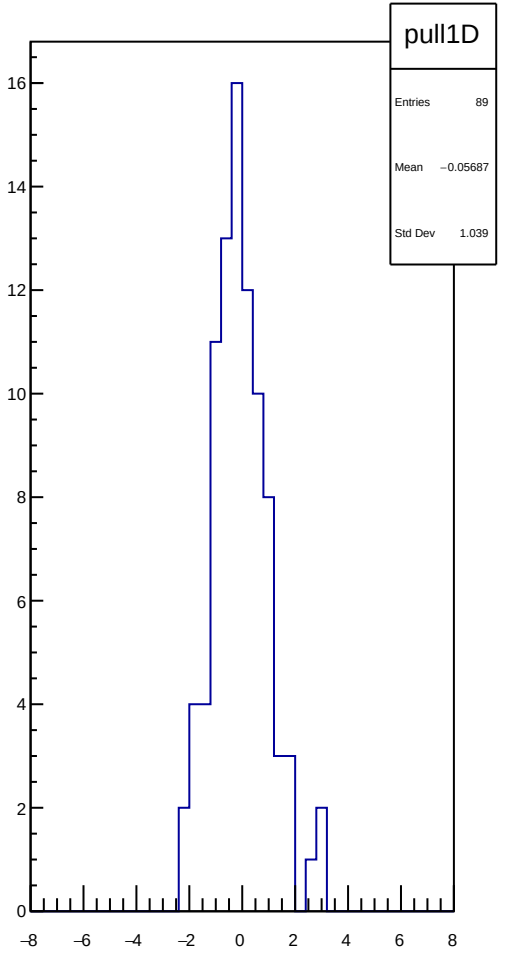

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 4442 / 88
p0 219.1 ± 0.1685
250
240
230
220
210
200

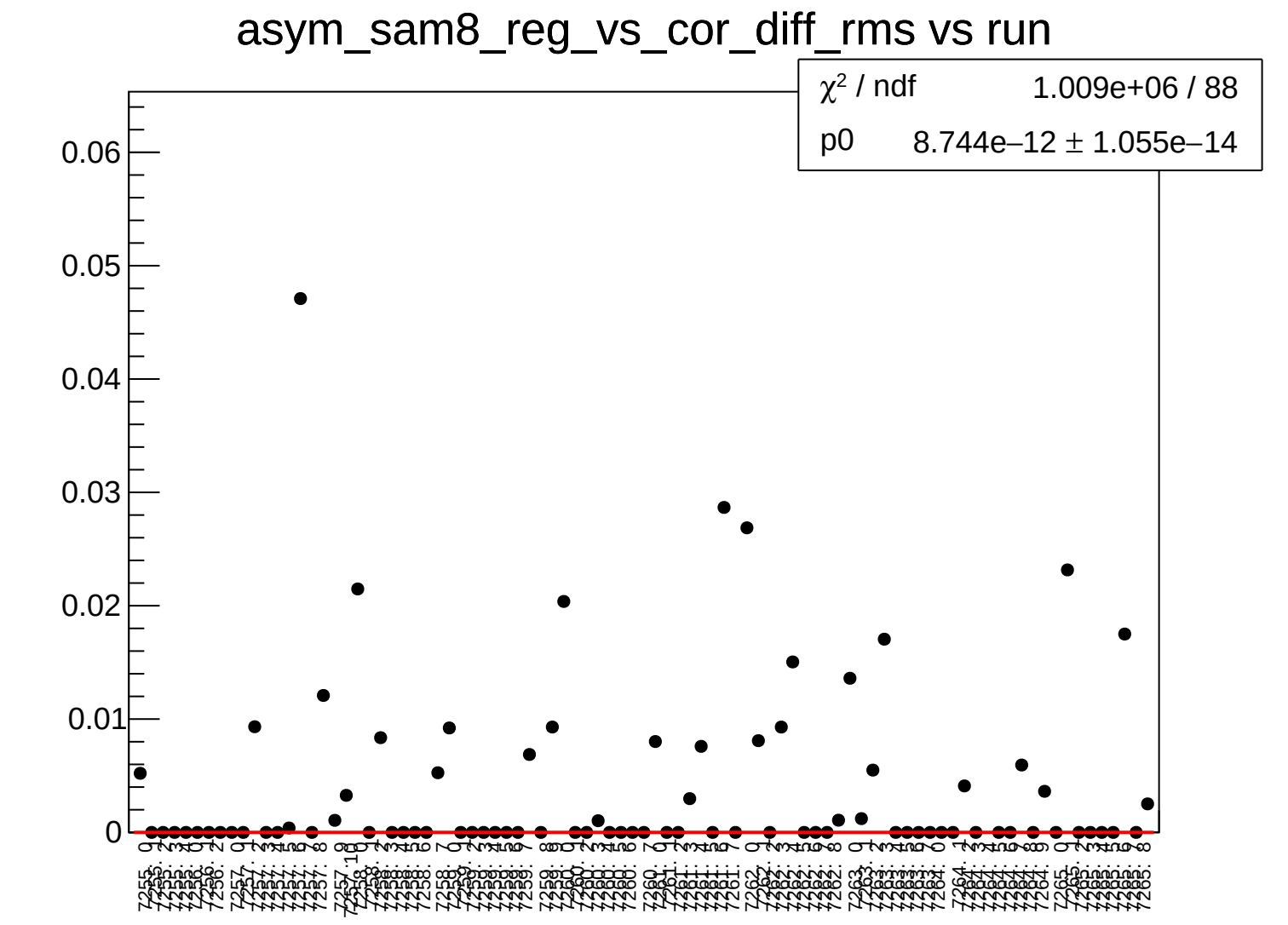

asym_sam8_mean vs run
χ² / ndf 89.54 / 88
p0 515.3 ± 236.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −428
Std Dev 0
2
1
0
−1
−2
−3

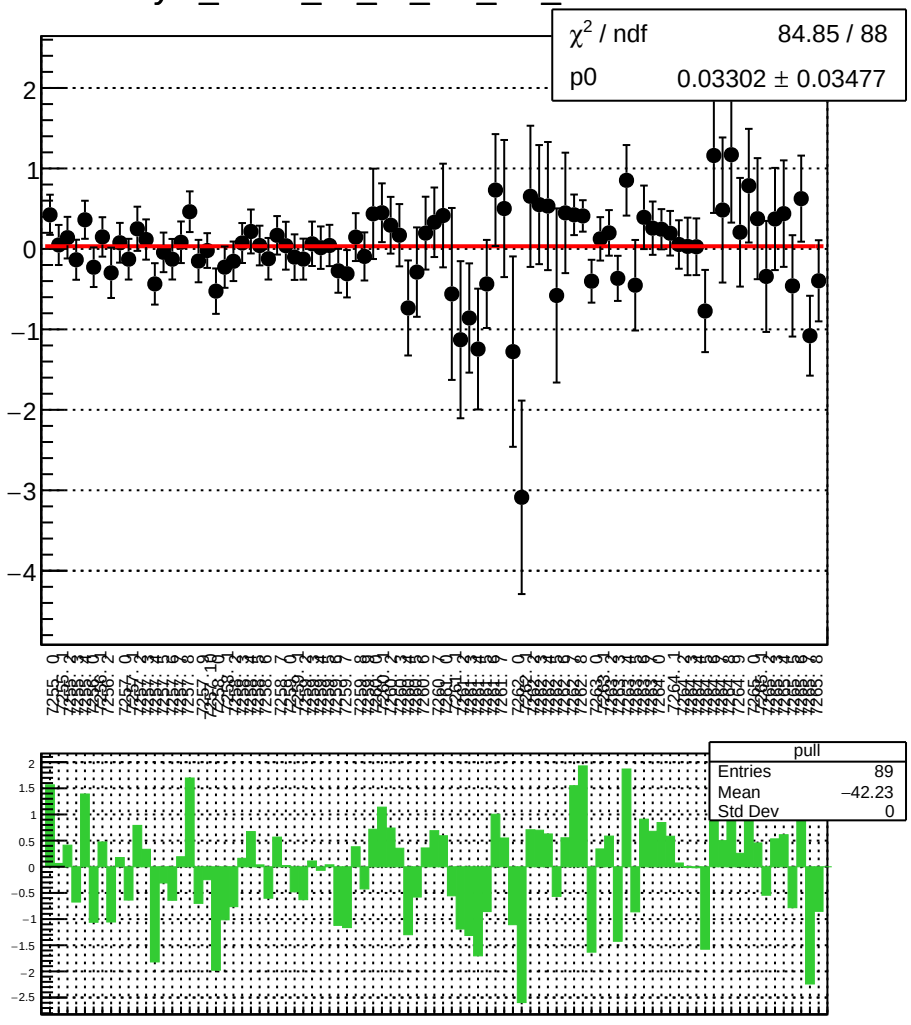

pull1D
Entries 89
Mean 0.009167
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

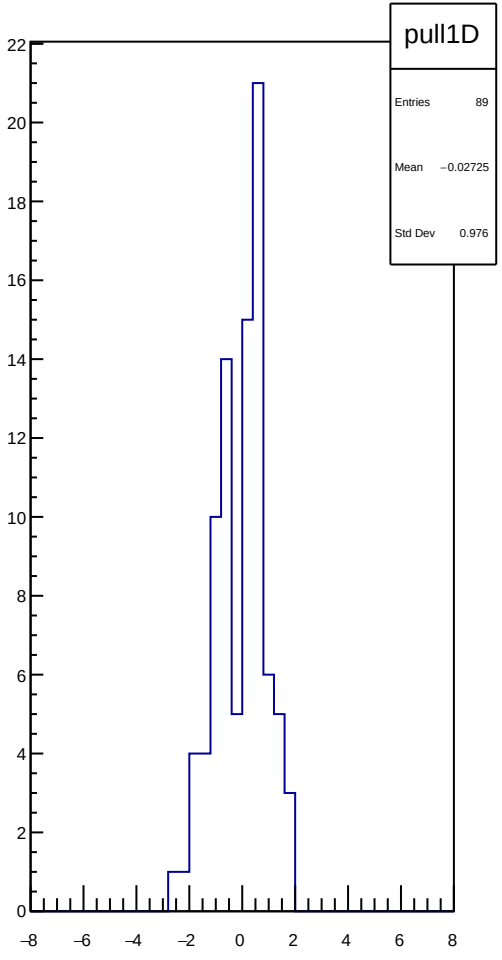

asym_sam8_rms vs run
χ² / ndf 3539 / 88
p0 217.6 ± 0.1673
250
240
230
220
210
200

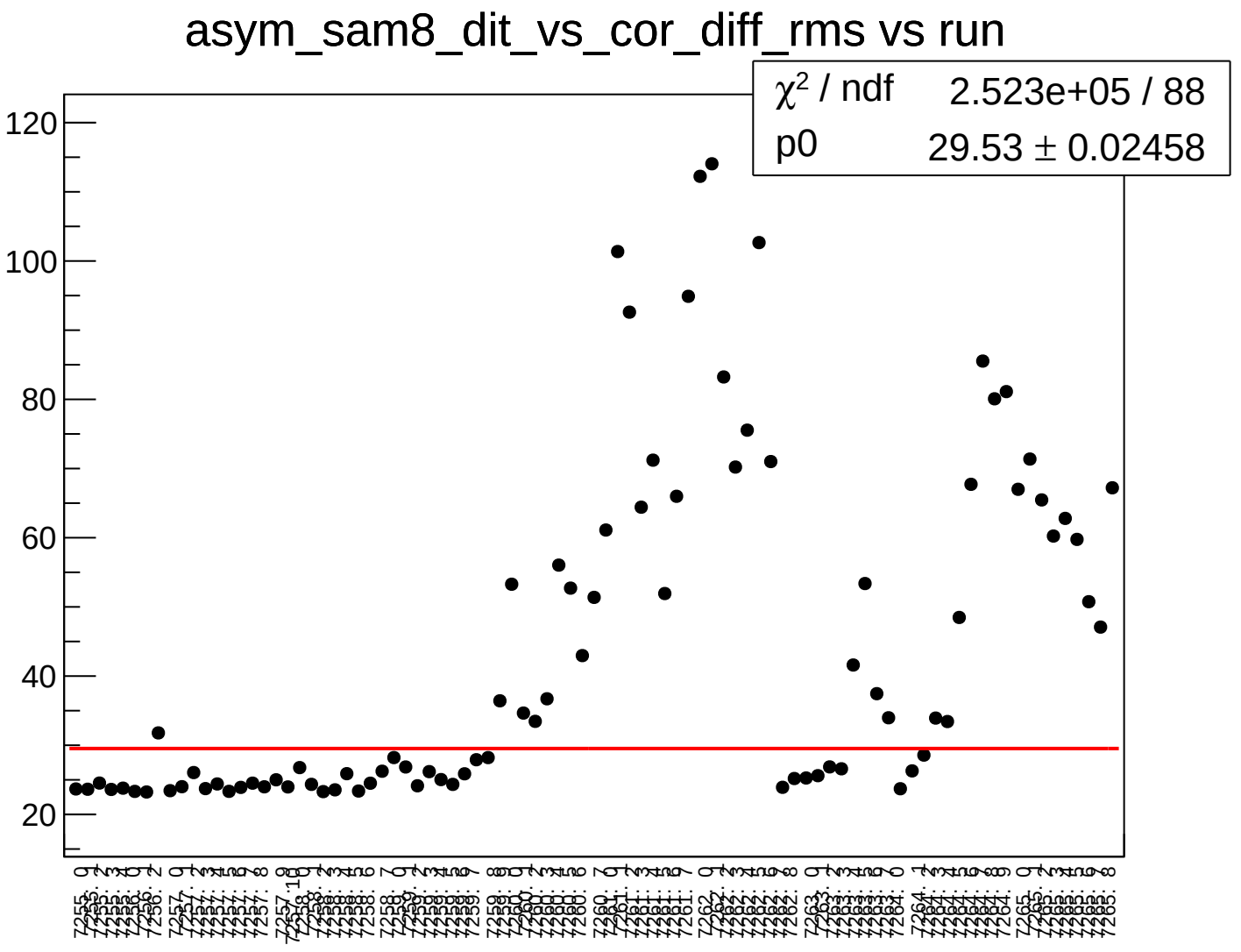

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 96.28 / 88
p0 1.32e−14 ± 1.492e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 89
Mean 47.17
Std Dev 26.32
3
2
1
0
−1
−2

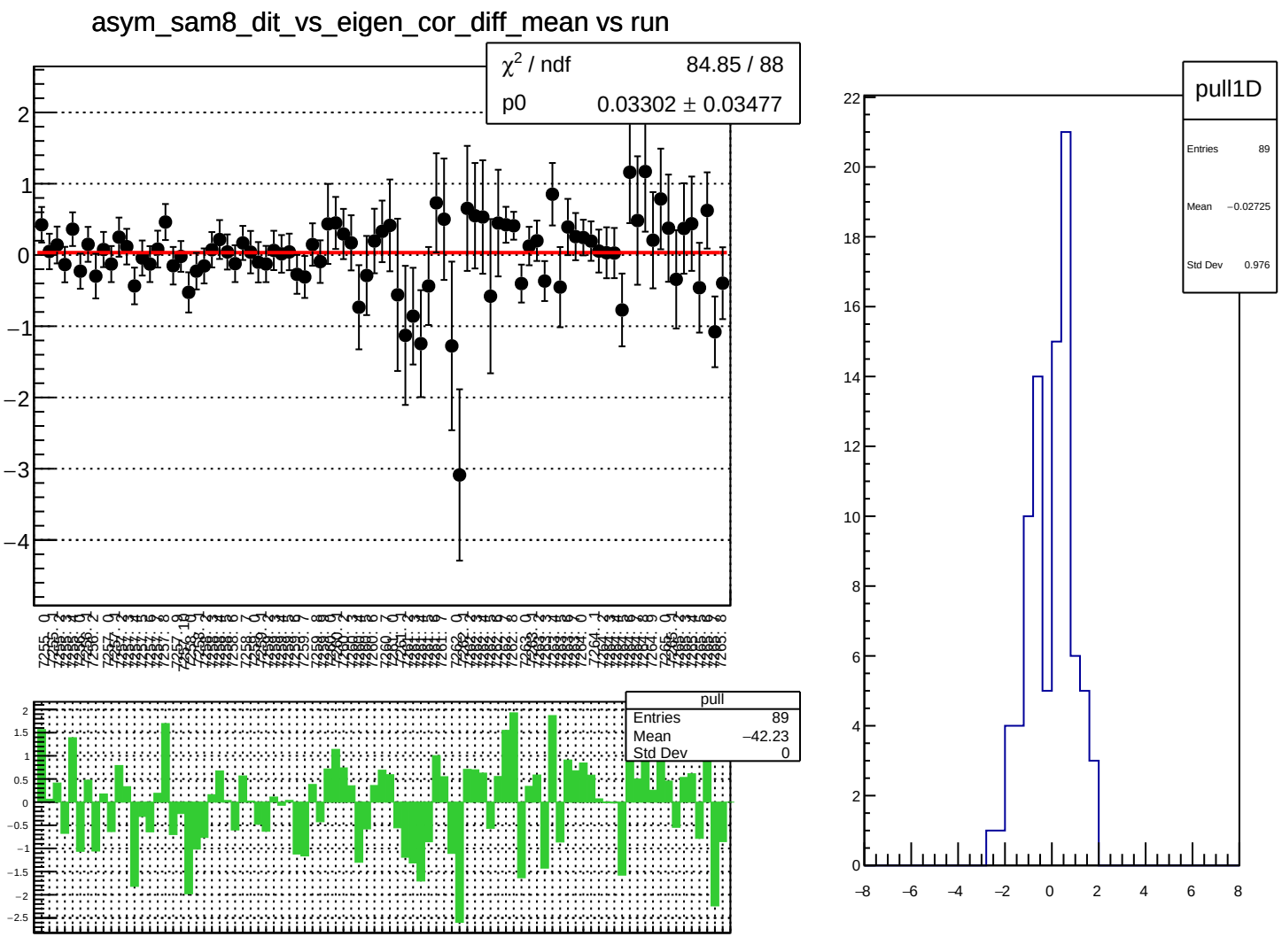

pull1D
Entries 89
Mean −0.05687
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

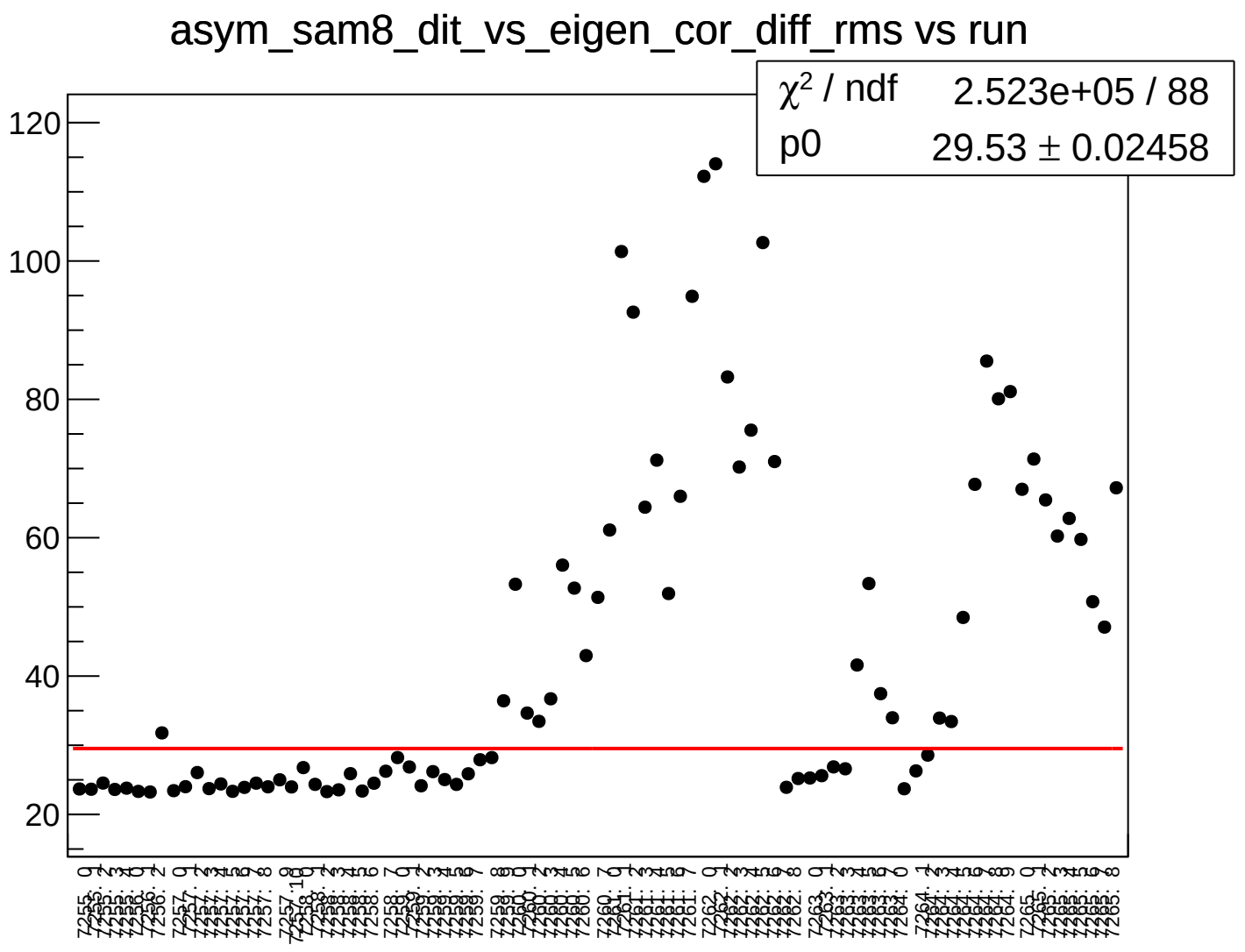

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.009e+06 / 88
p0 8.744e−12 ± 1.055e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

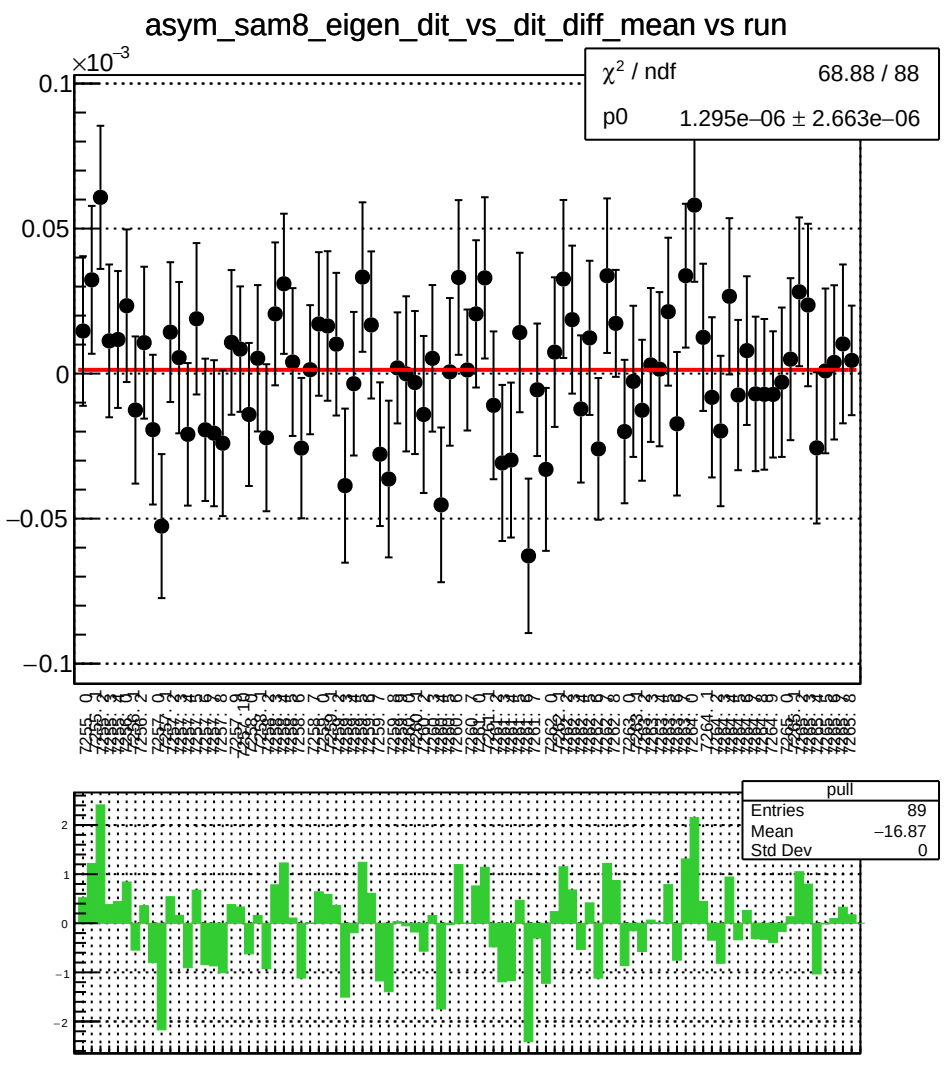

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 84.85 / 88
p0 0.03302 ± 0.03477
pull
Entries 89
Mean −42.23
Std Dev 0

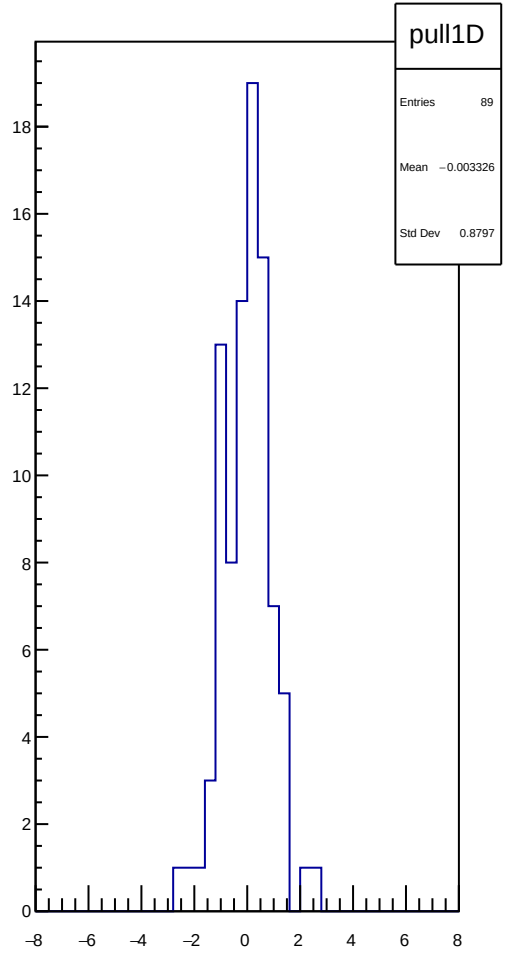

pull1D
Entries 89
Mean −0.02725
Std Dev 0.976

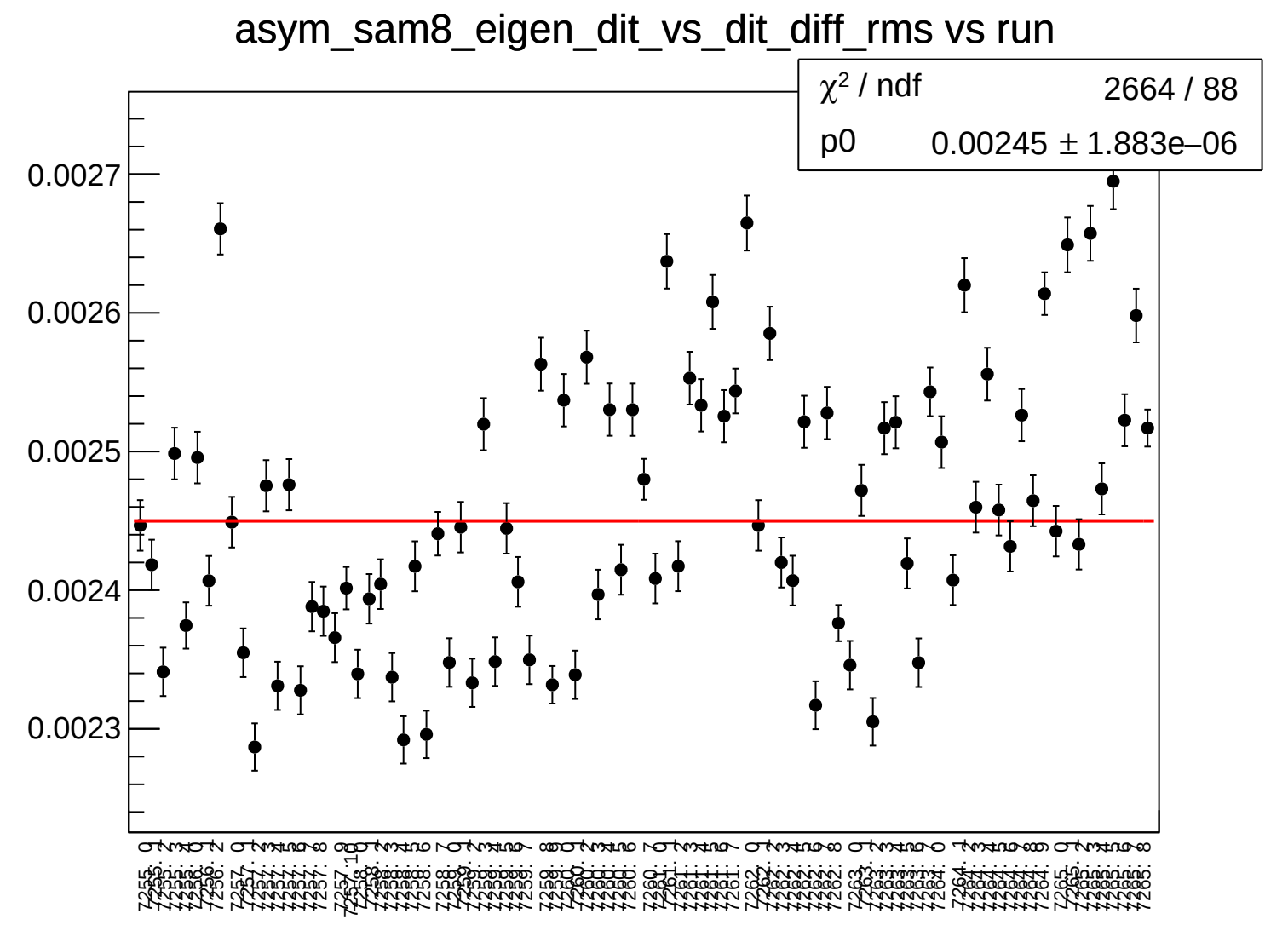

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 2.523e+05 / 88
p0 29.53 ± 0.02458
120
100
80
60
40
20

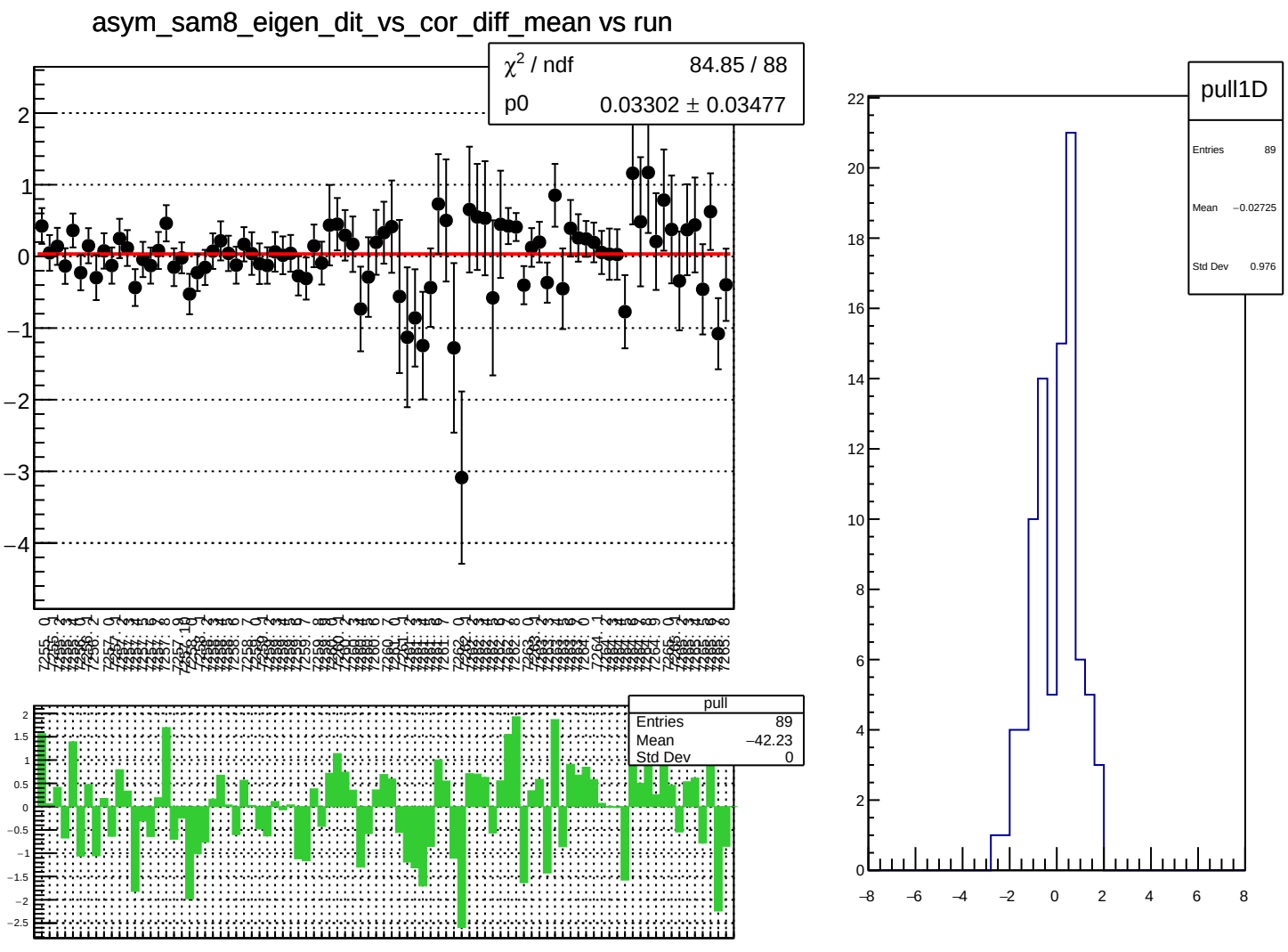

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.85 / 88
p0 0.03302 ± 0.03477
pull
Entries 89
Mean −42.23
Std Dev 0
pull1D
Entries 89
Mean −0.02725
Std Dev 0.976

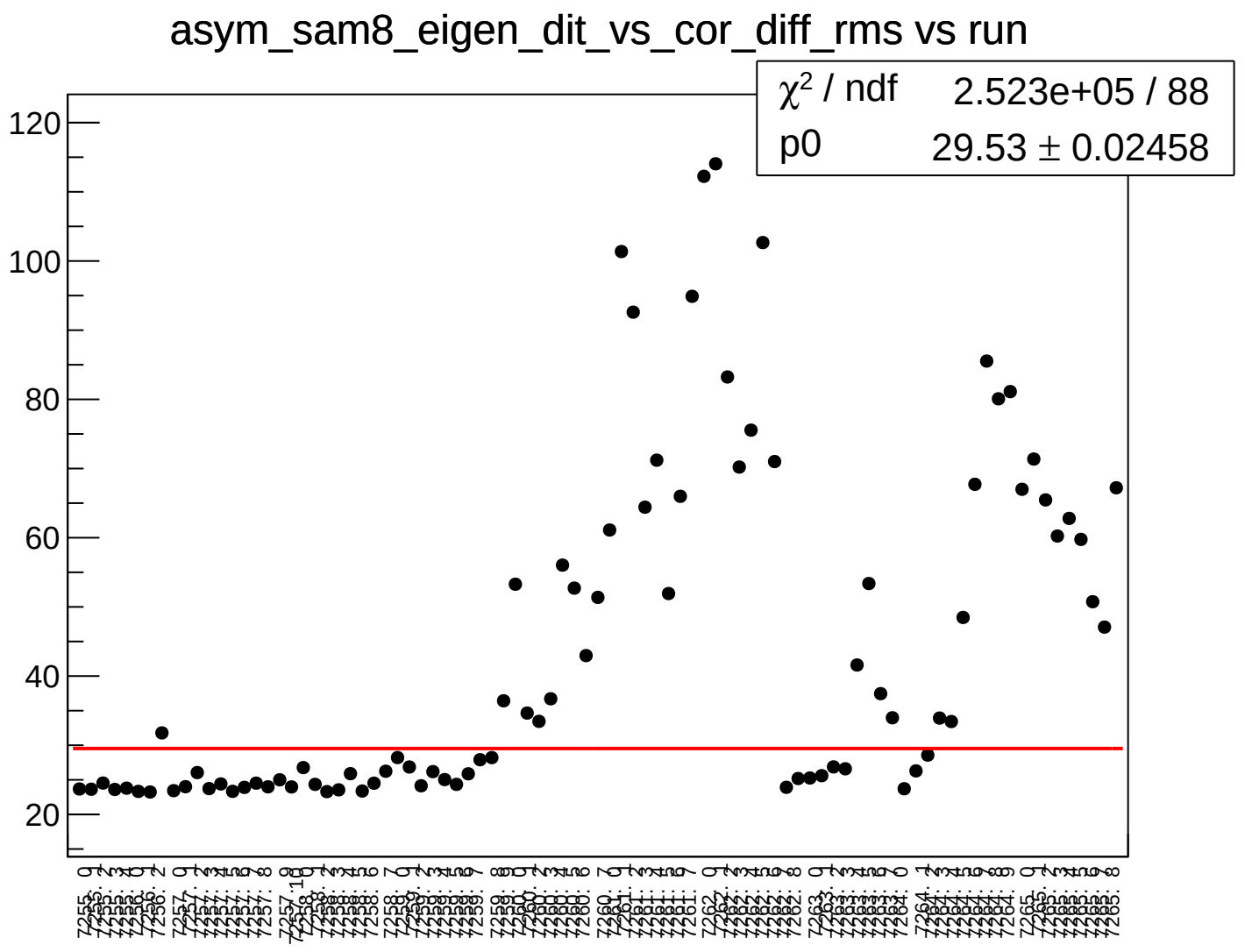

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.523e+05 / 88
p0 29.53 ± 0.02458
120
100
80
60
40
20

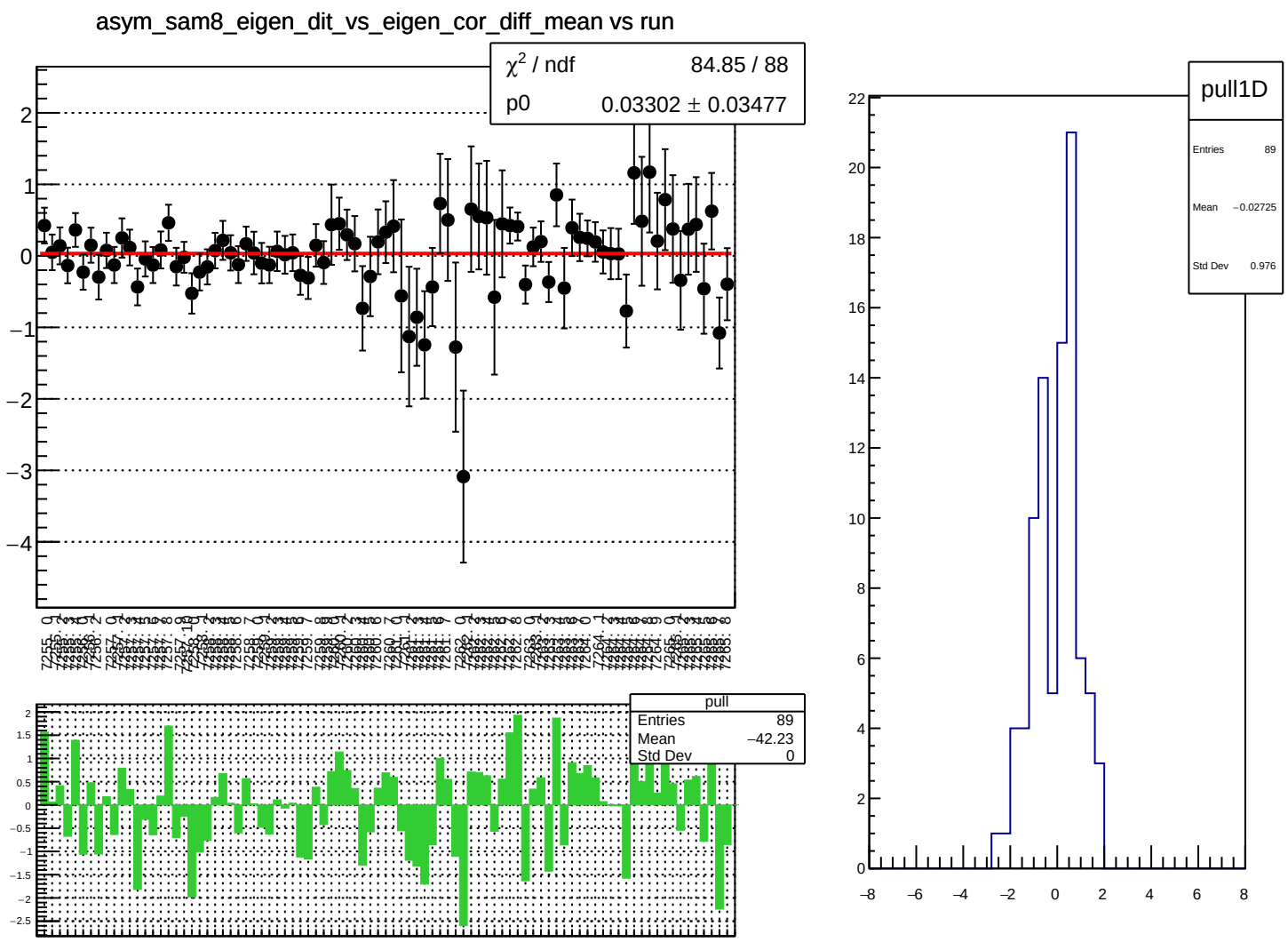

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.88 / 88
p0 1.295e−06 ± 2.663e−06
pull
Entries 89
Mean −16.87
Std Dev 0

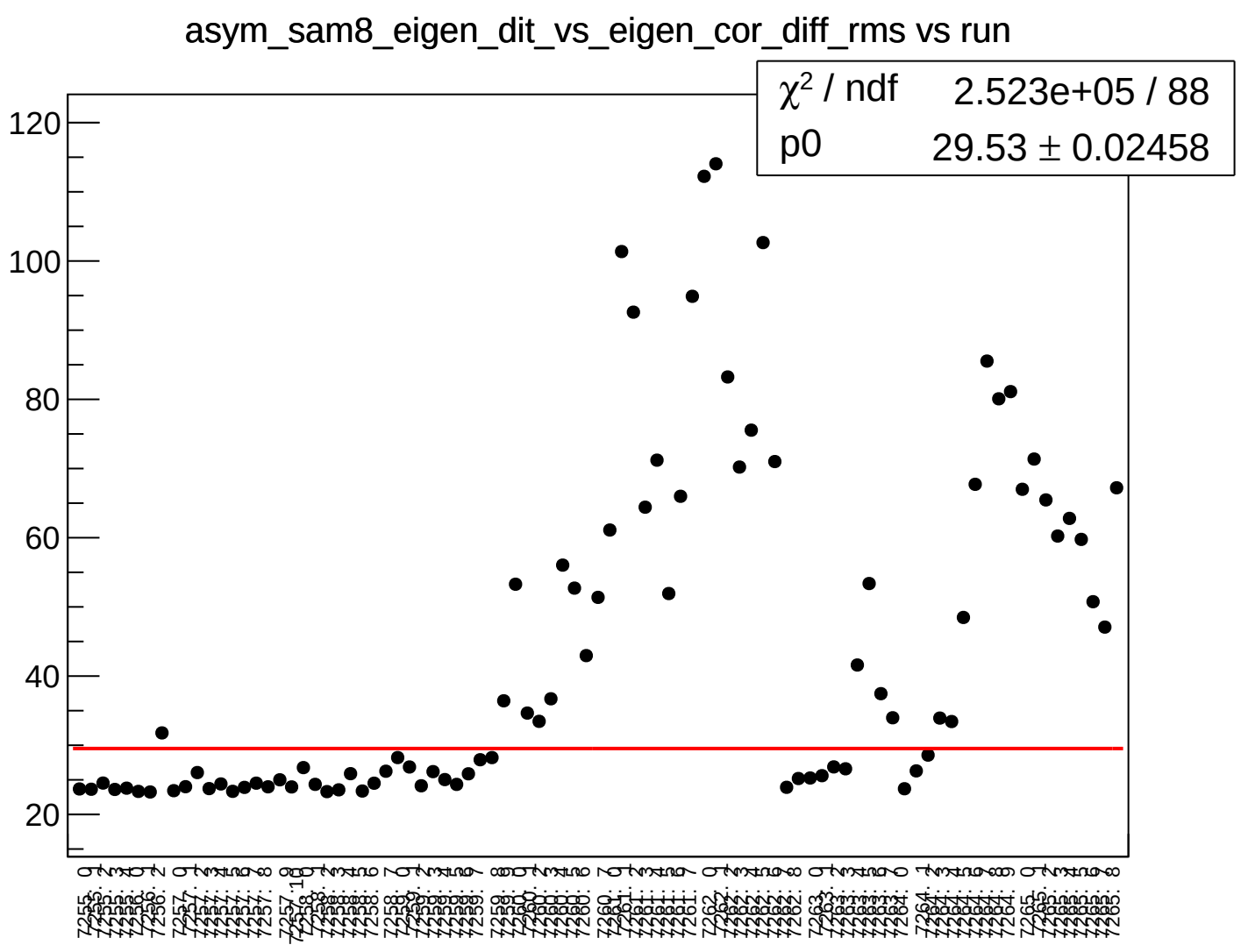

pull1D
Entries 89
Mean −0.003326
Std Dev 0.8797

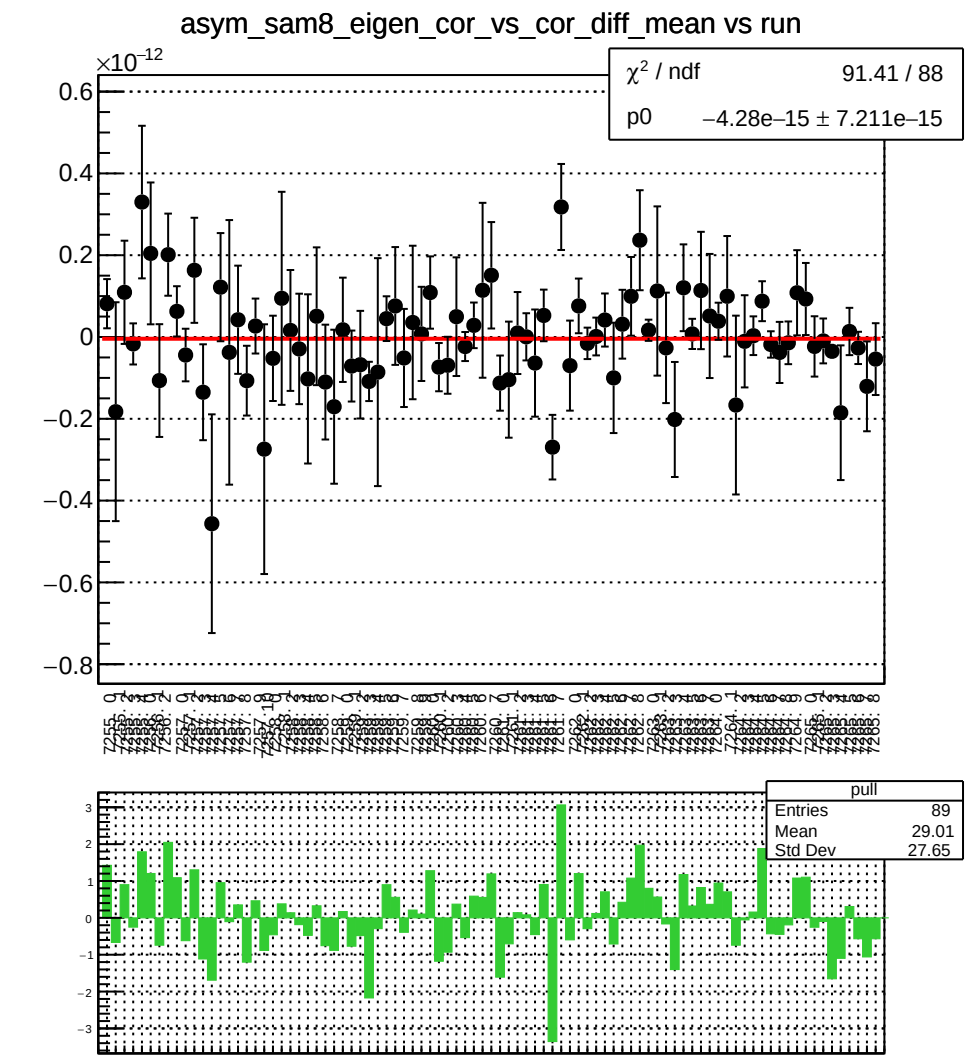

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2664 / 88
p0 0.00245 ± 1.883e−06
0.0027
0.0026
0.0025
0.0024
0.0023

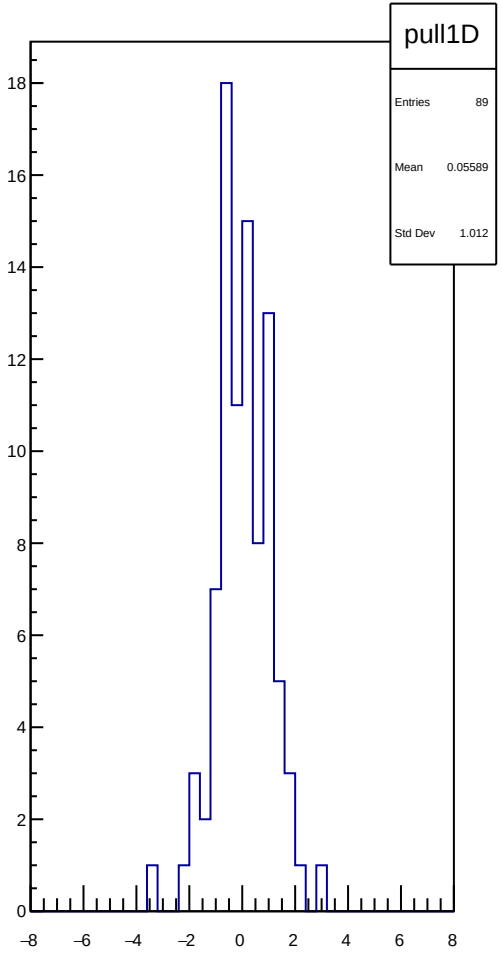

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.85 / 88
p0 0.03302 ± 0.03477
pull
Entries 89
Mean −42.23
Std Dev 0
pull1D
Entries 89
Mean −0.02725
Std Dev 0.976

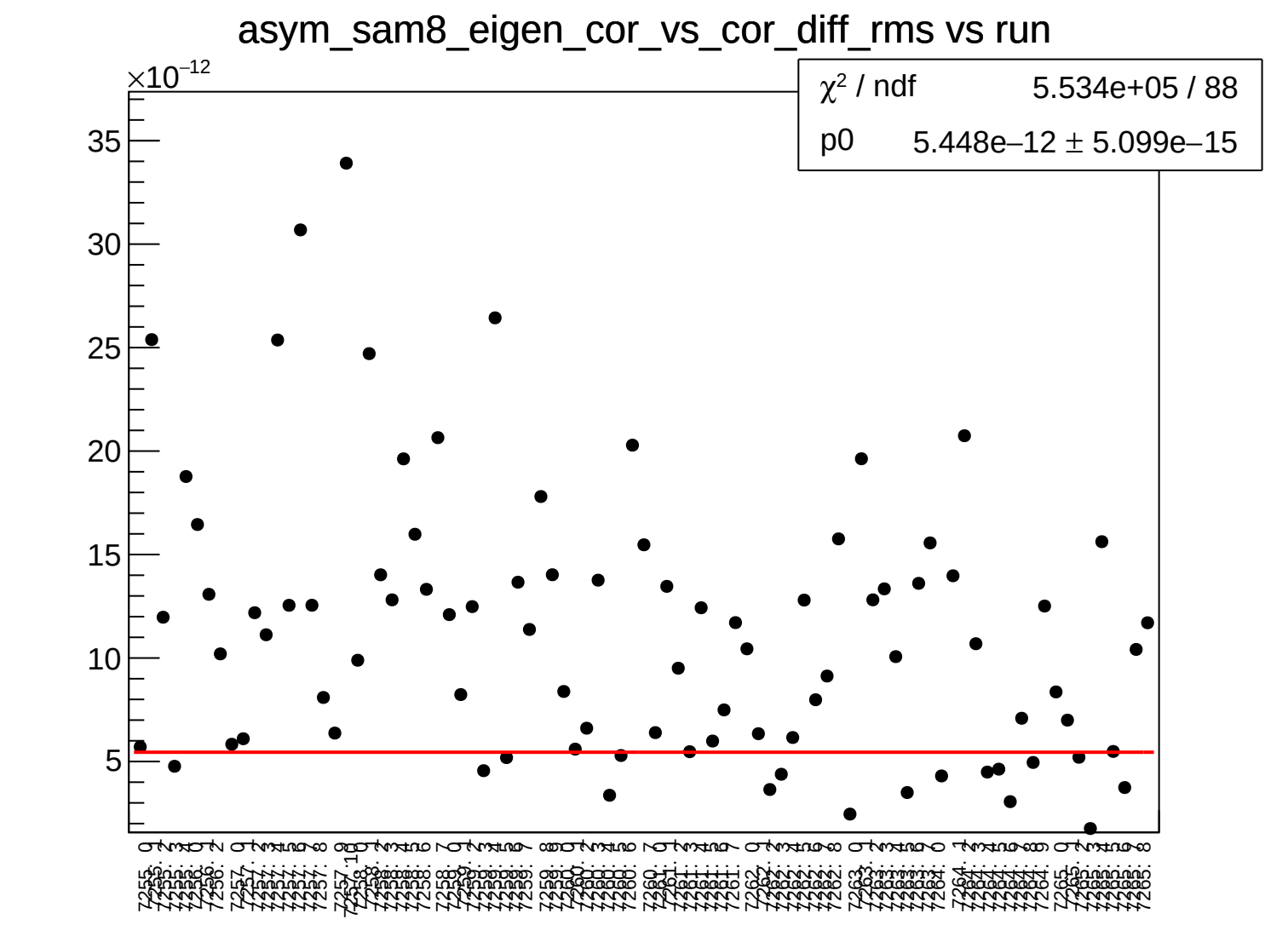

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.523e+05 / 88
p0 29.53 ± 0.02458
120
100
80
60
40
20

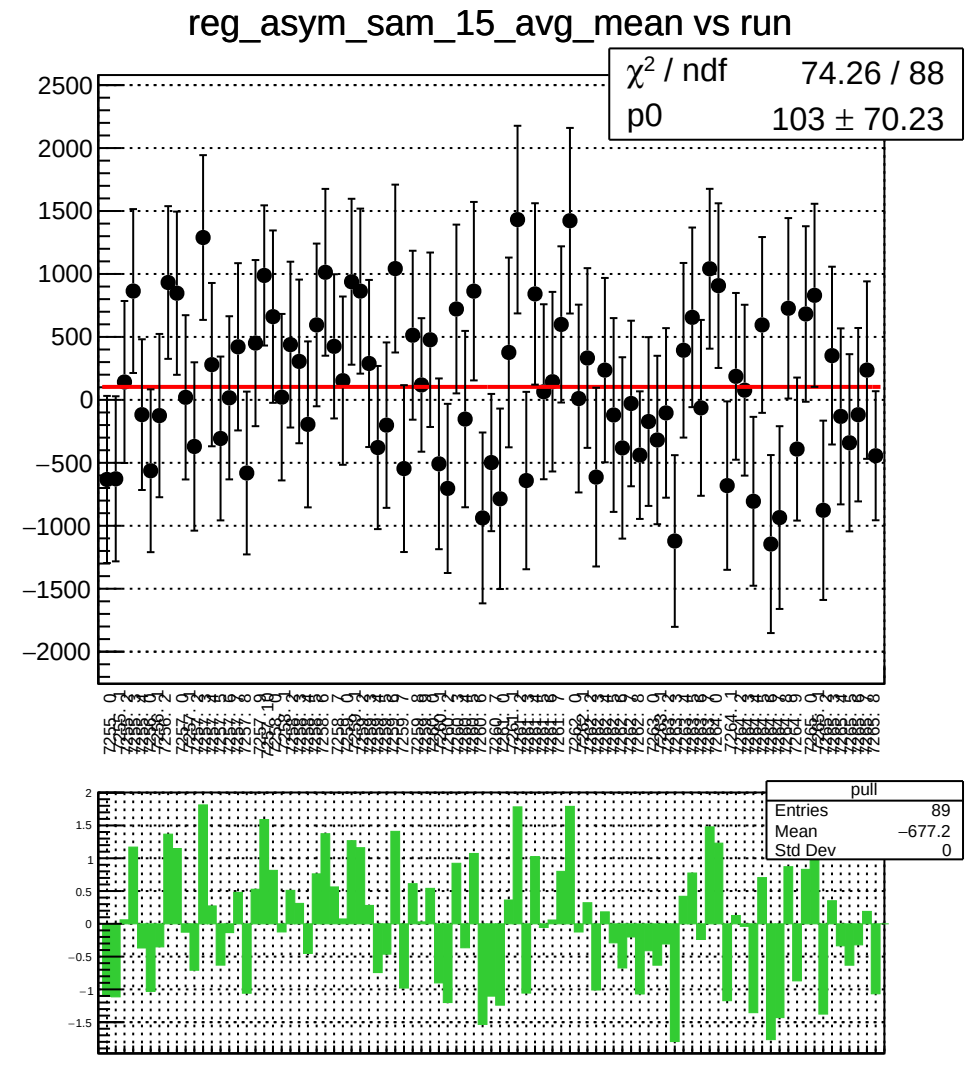

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.85 / 88
p0 0.03302 ± 0.03477
pull
Entries 89
Mean −42.23
Std Dev 0
pull1D
Entries 89
Mean −0.02725
Std Dev 0.976

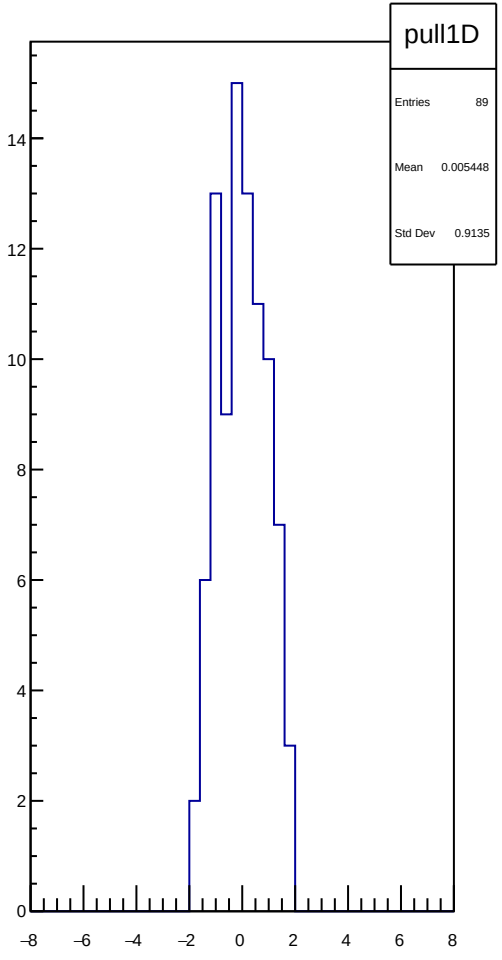

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.523e+05 / 88
p0 29.53 ± 0.02458
120
100
80
60
40
20

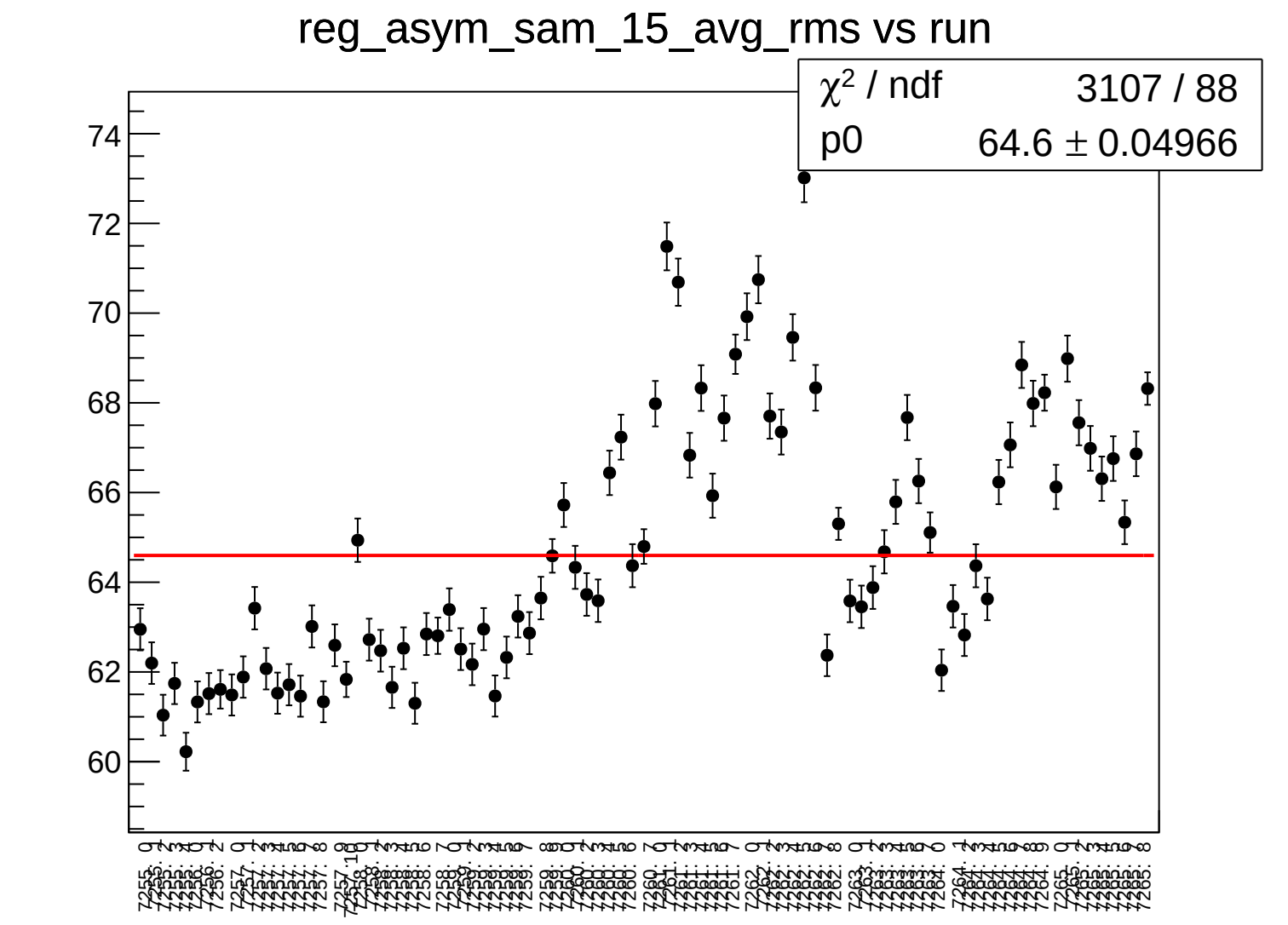

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.41 / 88
p0 −4.28e−15 ± 7.211e−15
pull
Entries 89
Mean 29.01
Std Dev 27.65

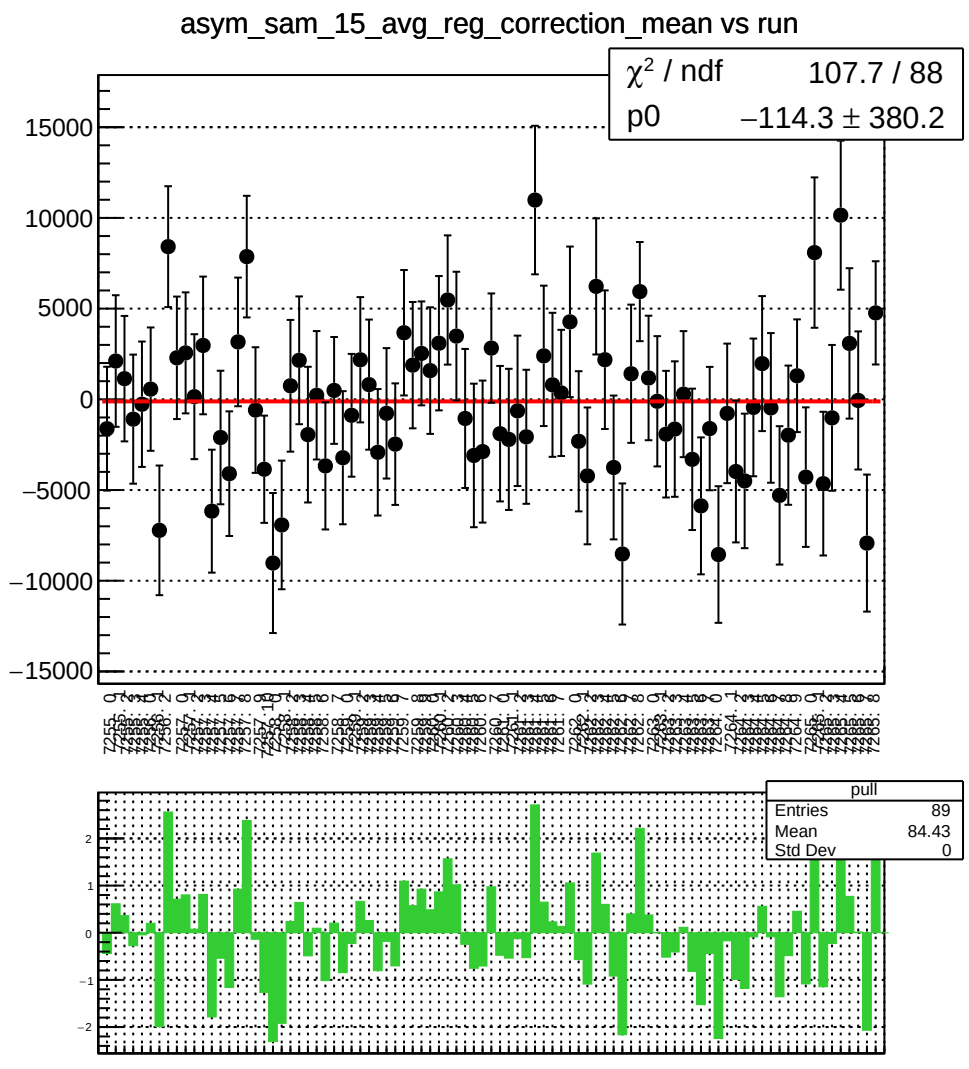

pull1D
Entries 89
Mean 0.05589
Std Dev 1.012

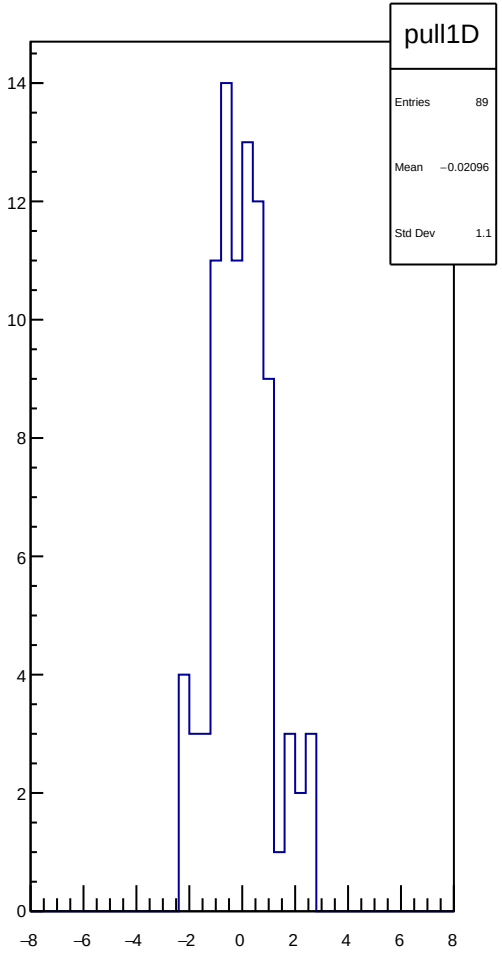

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.534e+05 / 88
p0 5.448e−12 ± 5.099e−15
35
30
25
20
15
10
5

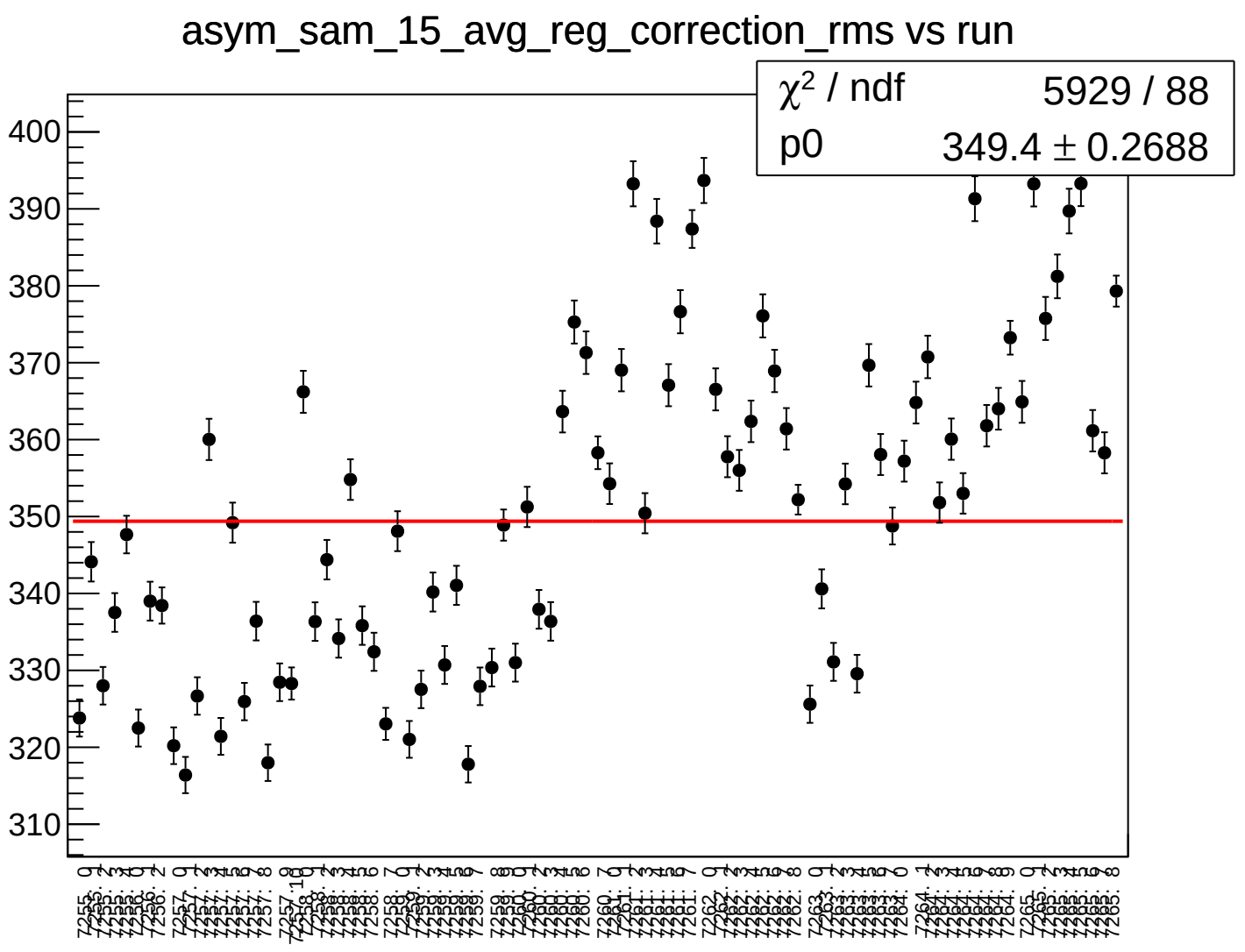

reg_asym_sam_15_avg_mean vs run
χ² / ndf 74.26 / 88
p0 103 ± 70.23
pull
Entries 89
Mean −677.2
Std Dev 0

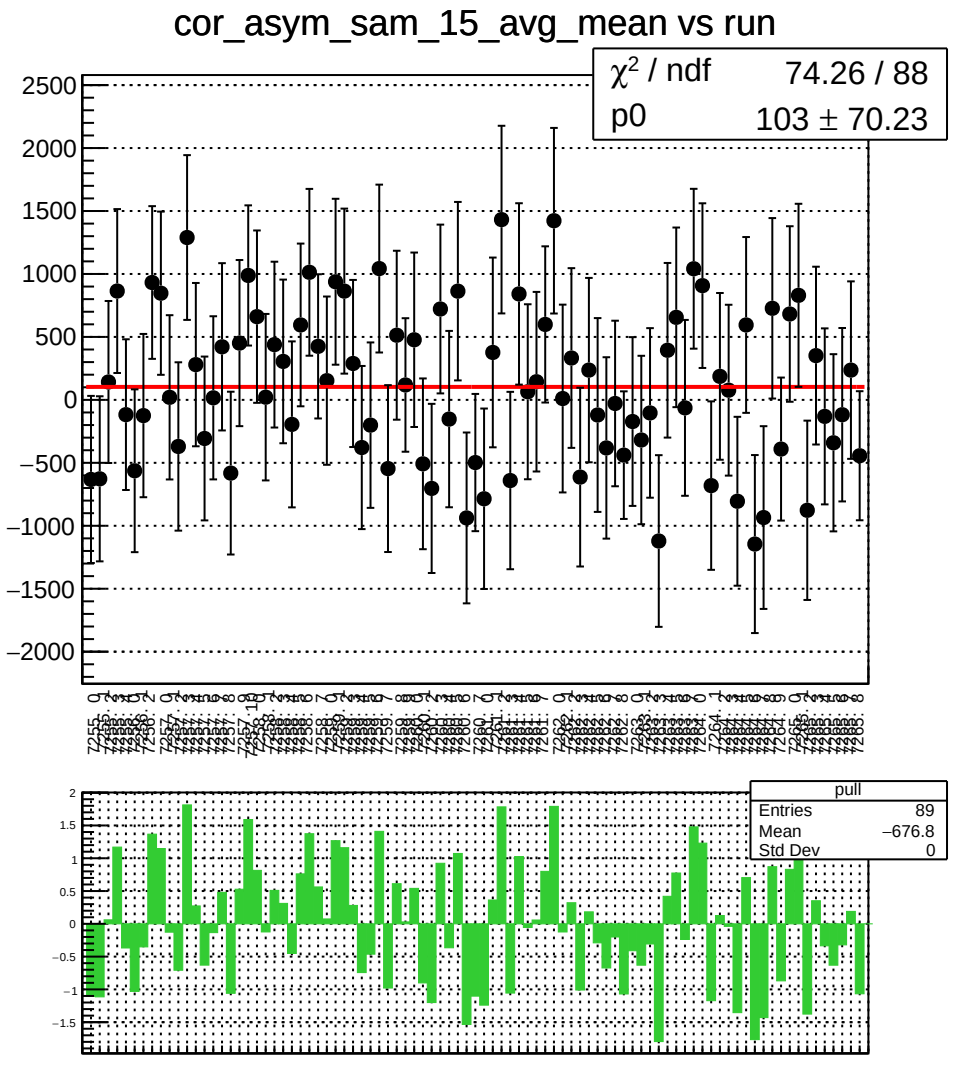

pull1D
Entries 89
Mean 0.005448
Std Dev 0.9135

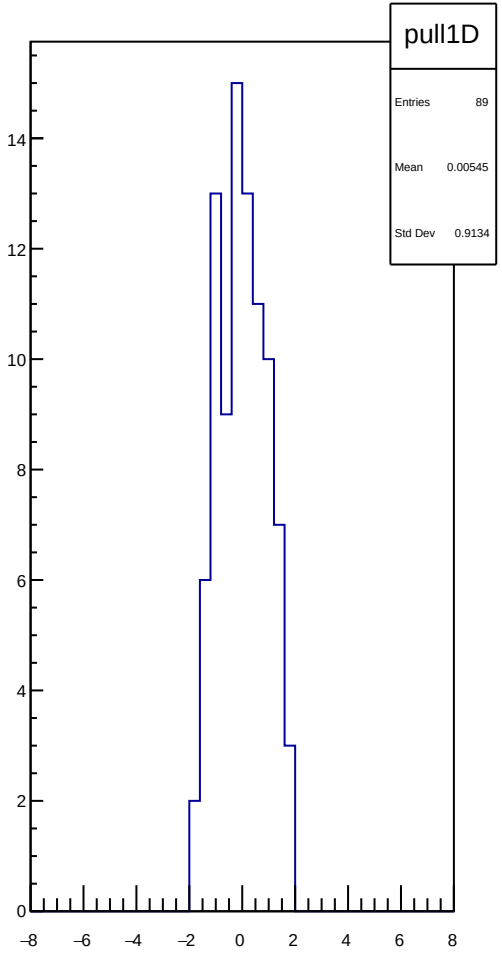

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 3107 / 88
p0 64.6 ± 0.04966
74
72
70
68
66
64
62
60

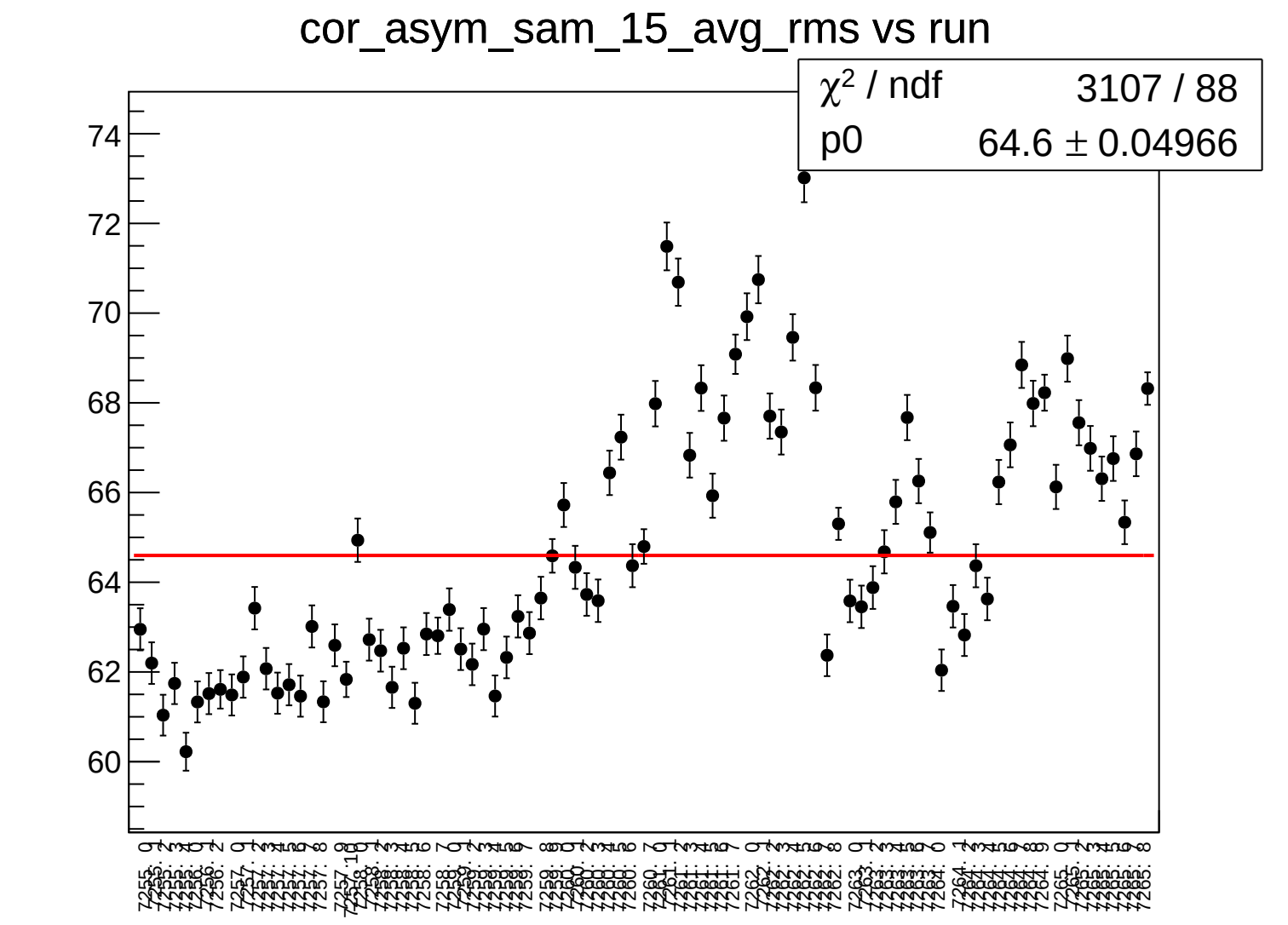

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 107.7 / 88
p0 −114.3 ± 380.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 84.43
Std Dev 0
2
1
0
−1
−2

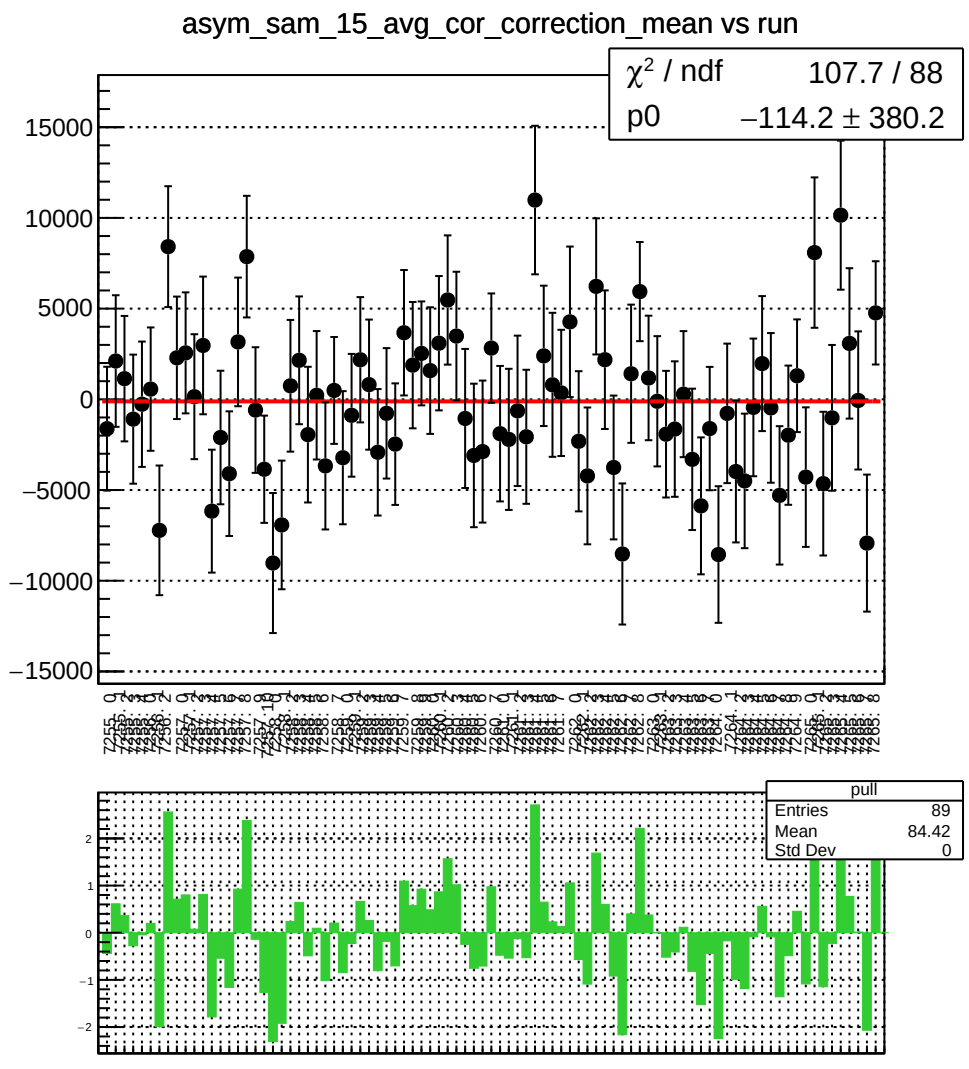

pull1D
Entries 89
Mean −0.02096
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

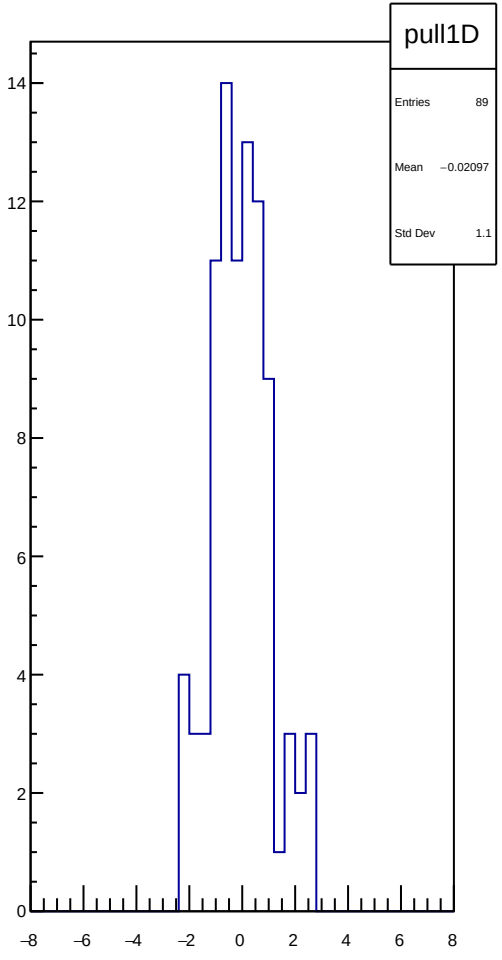

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 5929 / 88
p0 349.4 ± 0.2688
400
390
380
370
360
350
340
330
320
310

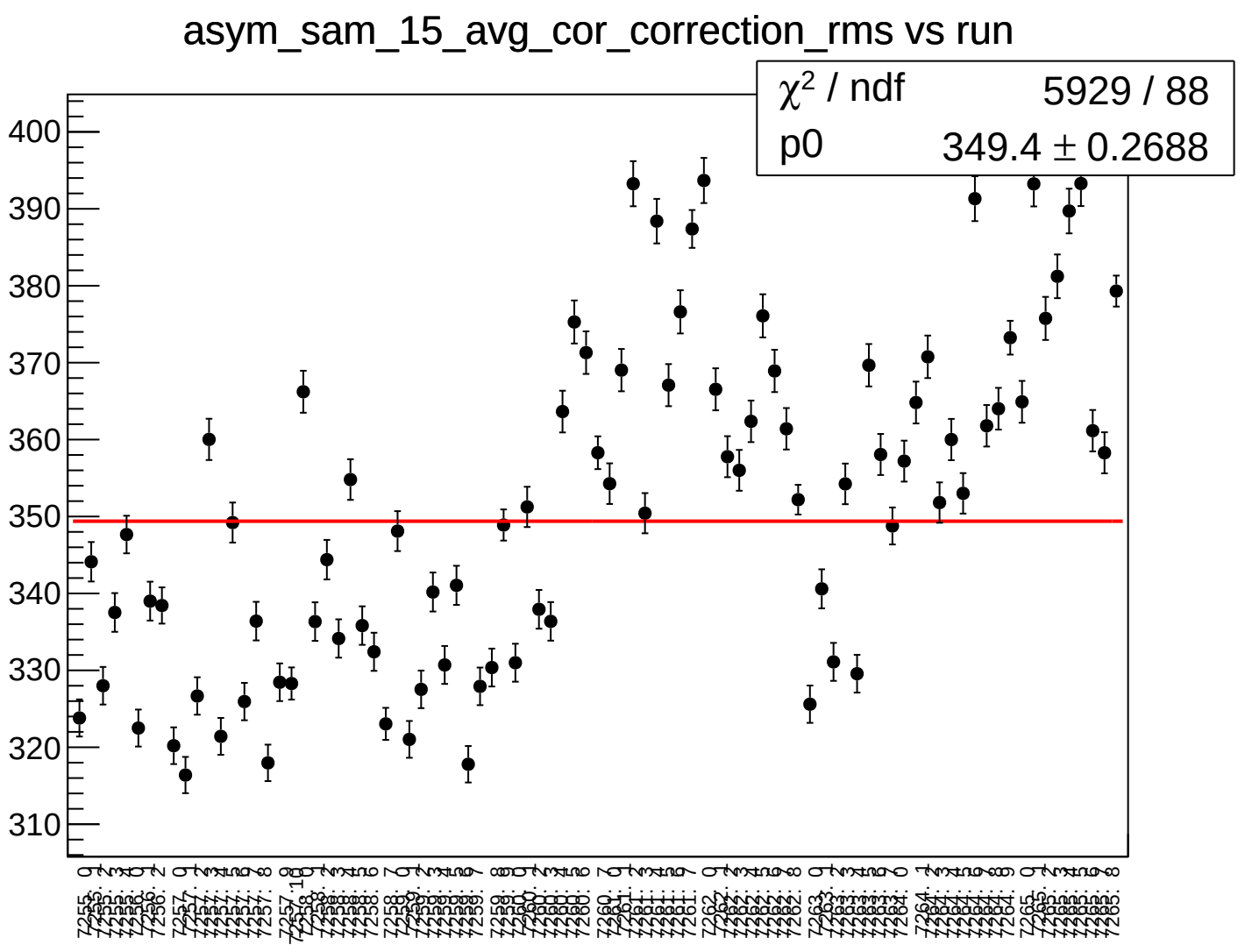

cor_asym_sam_15_avg_mean vs run
χ^2 / ndf 74.26 / 88
p0 103 ± 70.23
pull
Entries 89
Mean −676.8
Std Dev 0

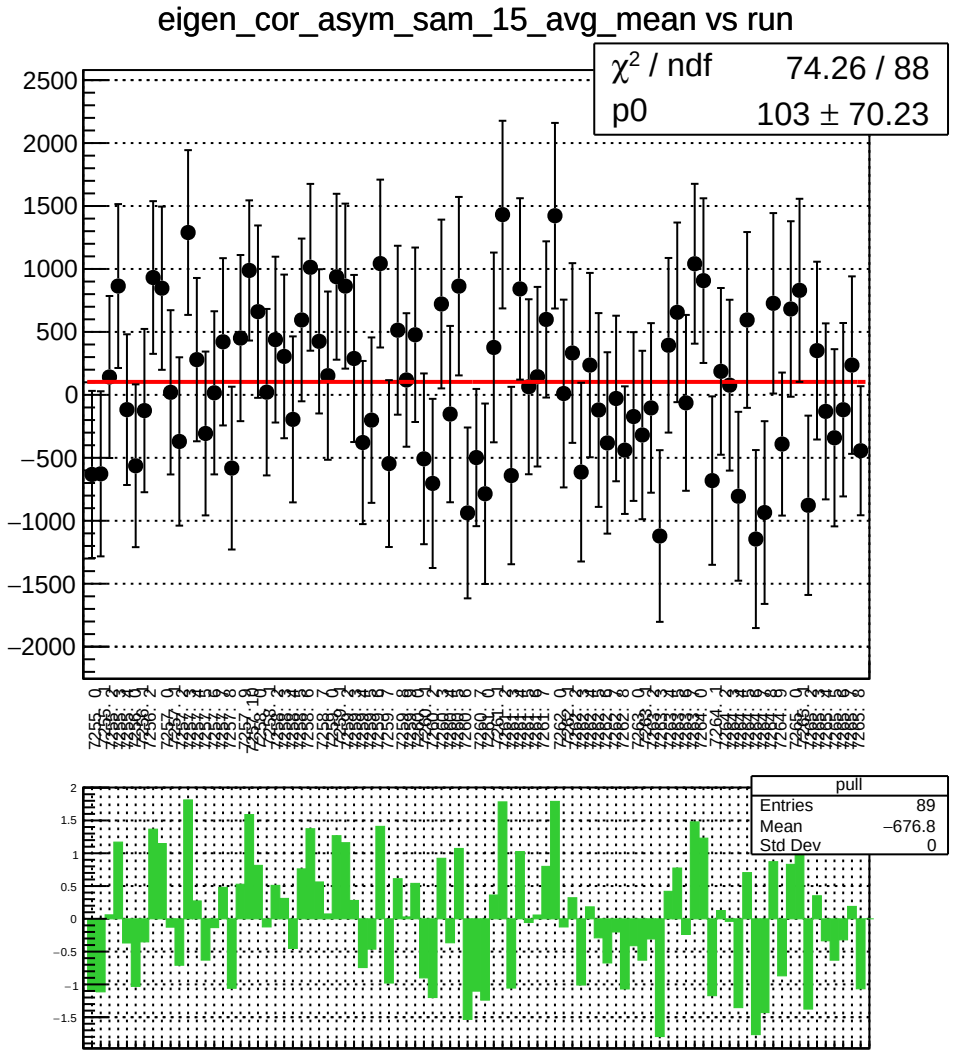

pull1D
Entries 89
Mean 0.00545
Std Dev 0.9134

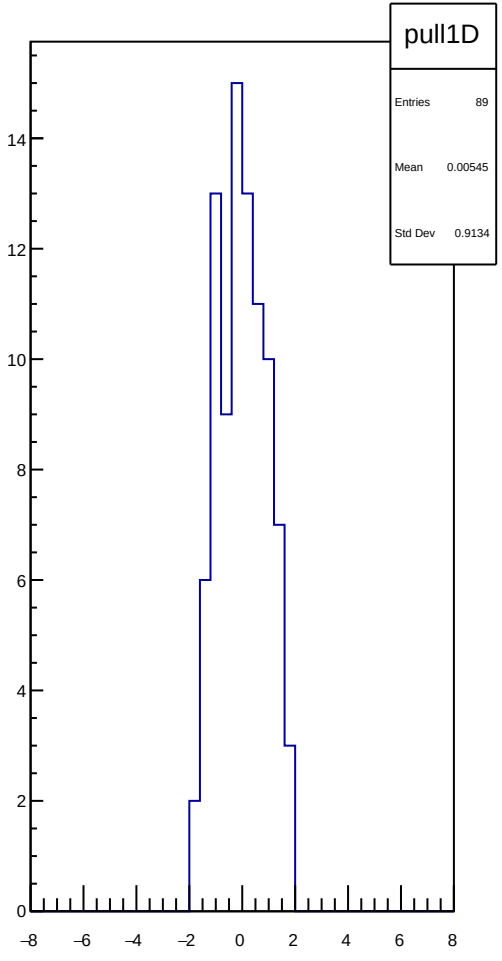

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 3107 / 88
p0 64.6 ± 0.04966
74
72
70
68
66
64
62
60

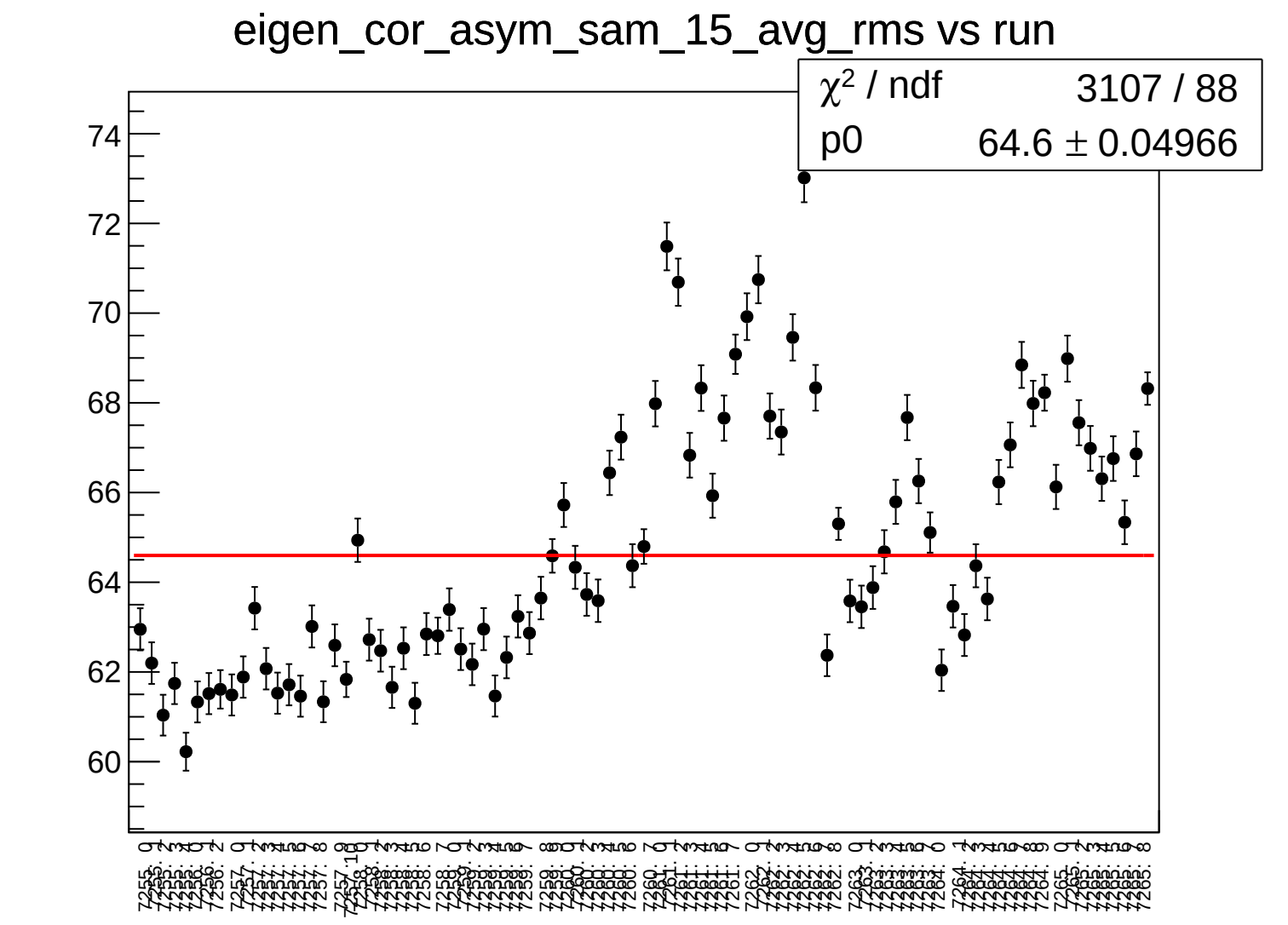

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 107.7 / 88
p0 −114.2 ± 380.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 84.42
Std Dev 0
2
1
0
−1
−2

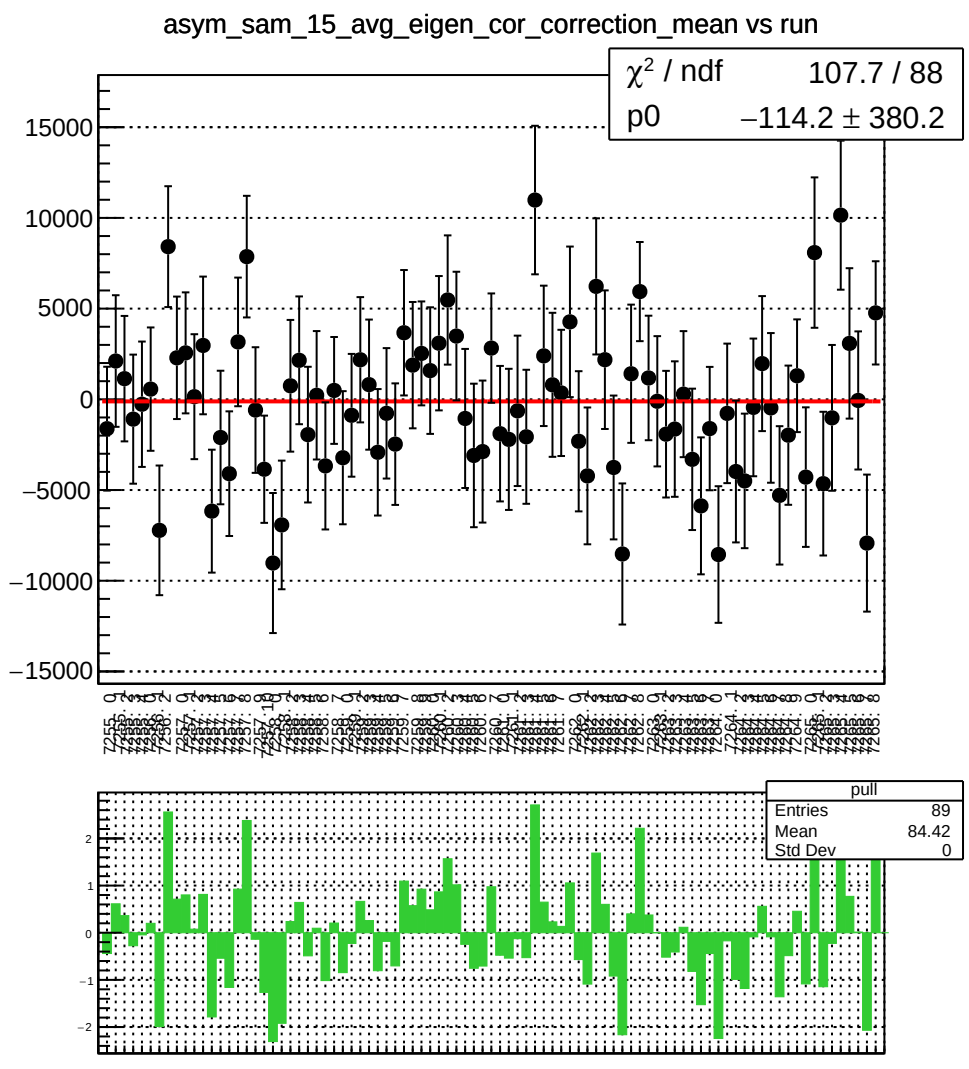

pull1D
Entries 89
Mean −0.02097
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

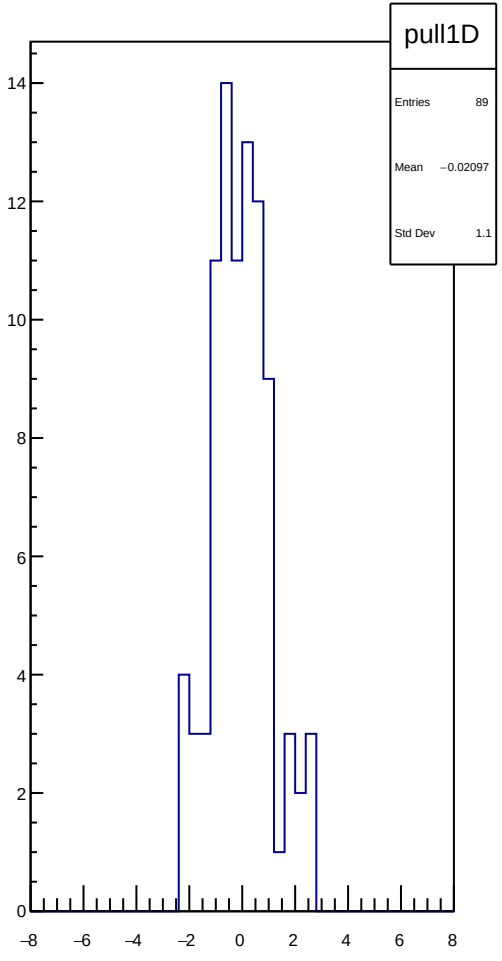

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 5929 / 88
p0 349.4 ± 0.2688
400
390
380
370
360
350
340
330
320
310

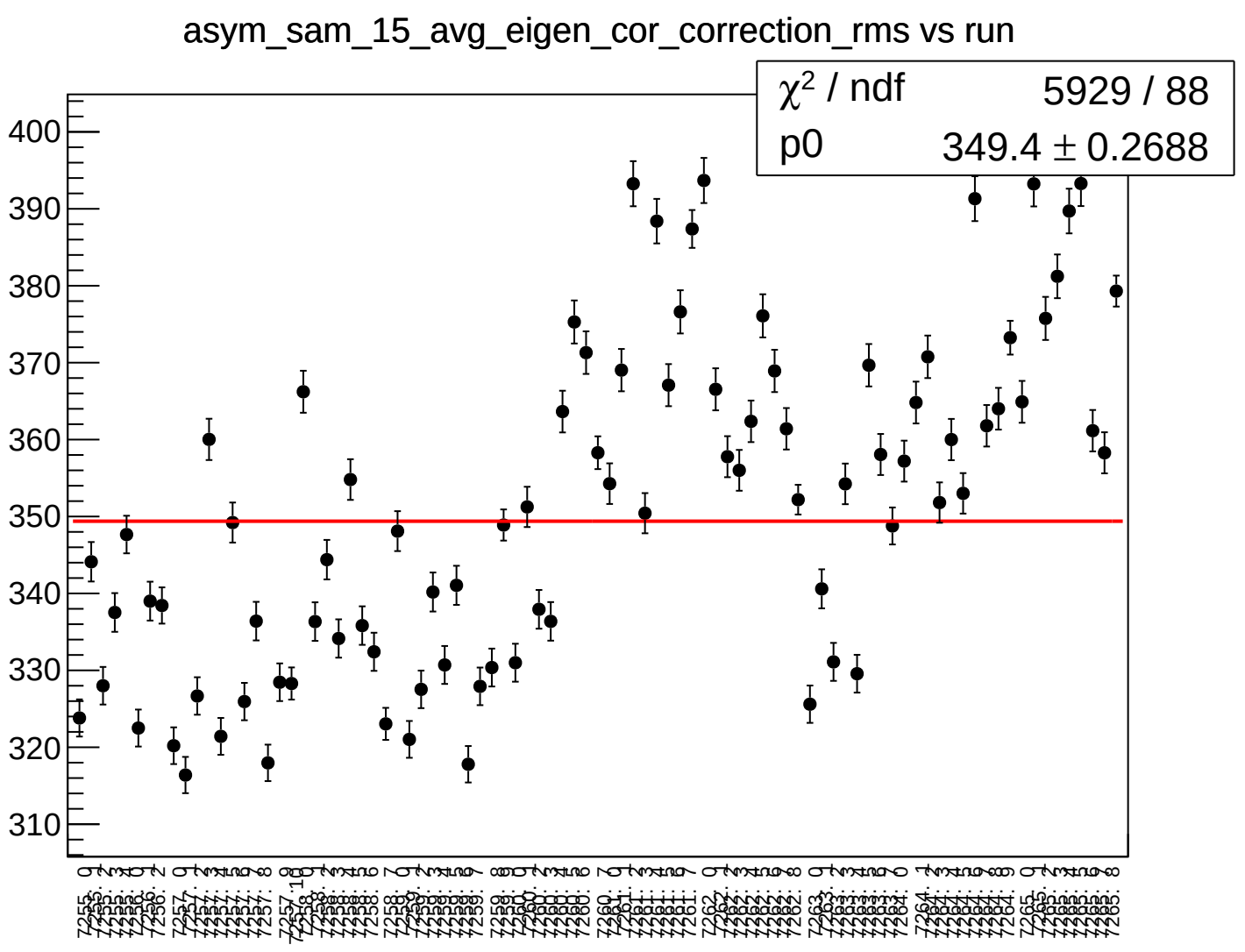

eigen_cor_asym_sam_15_avg_mean vs run
χ^2 / ndf 74.26 / 88
p0 103 ± 70.23
pull
Entries 89
Mean −676.8
Std Dev 0

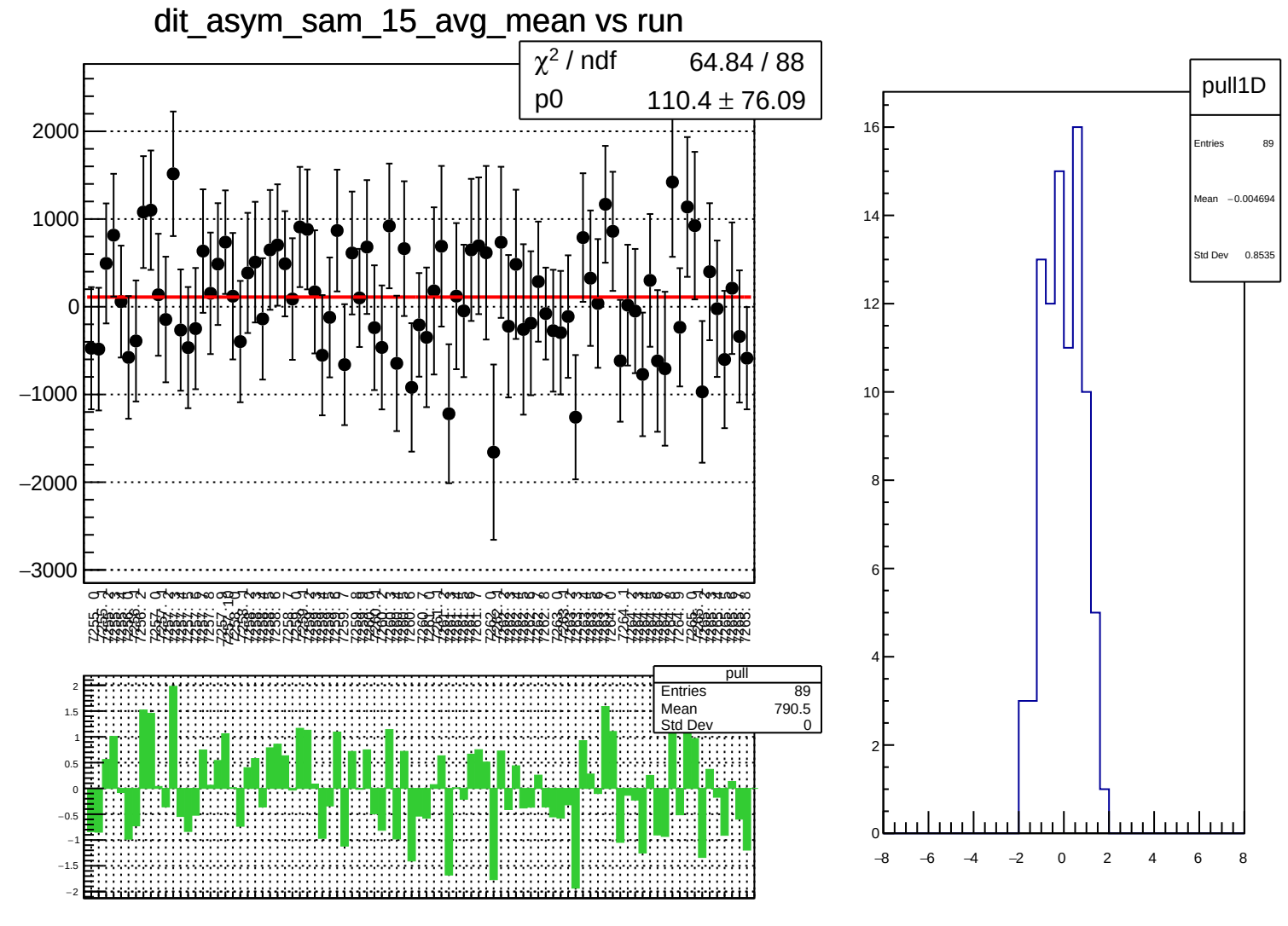

pull1D
Entries 89
Mean 0.00545
Std Dev 0.9134

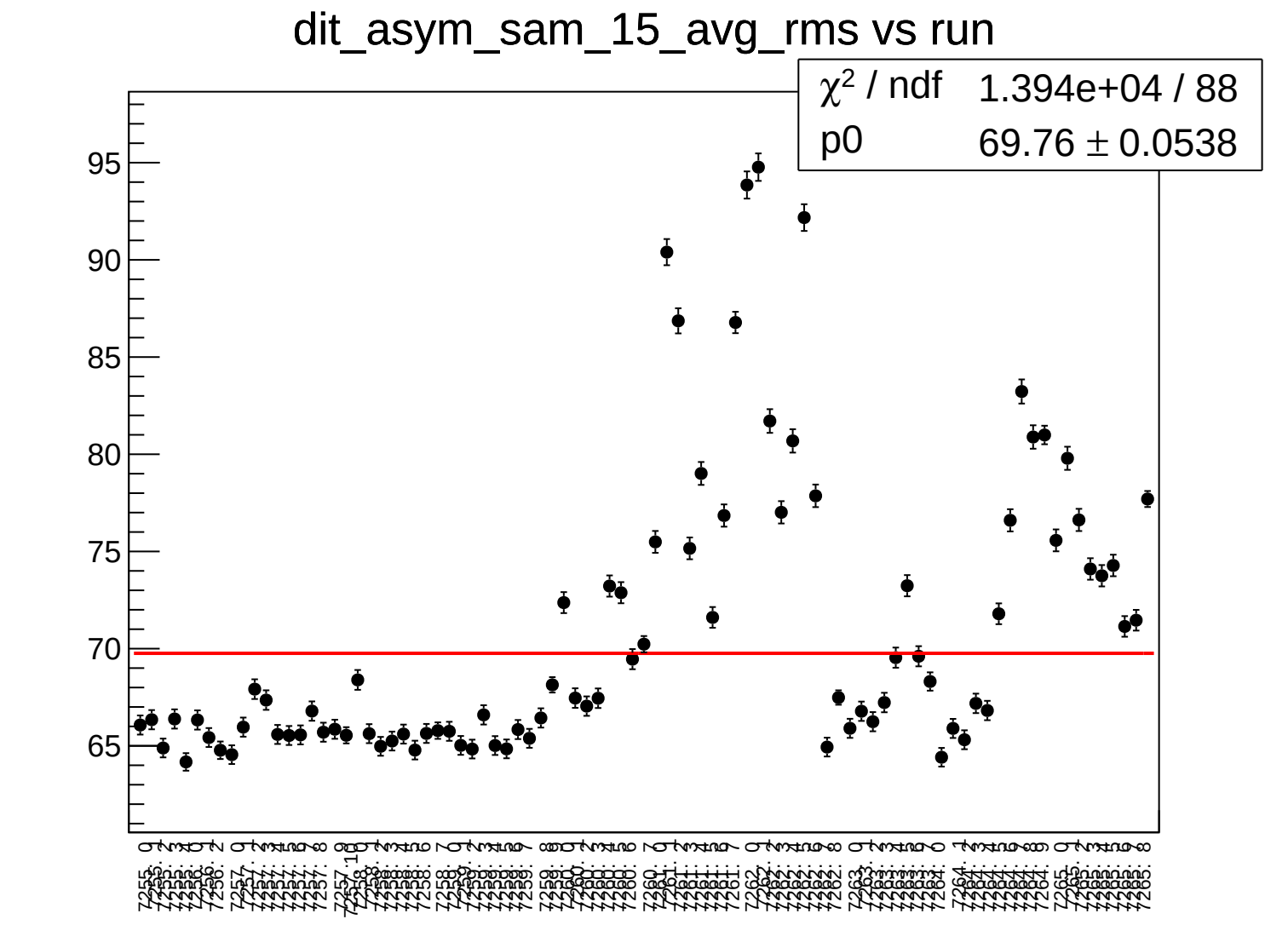

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 3107 / 88
p0 64.6 ± 0.04966
74
72
70
68
66
64
62
60

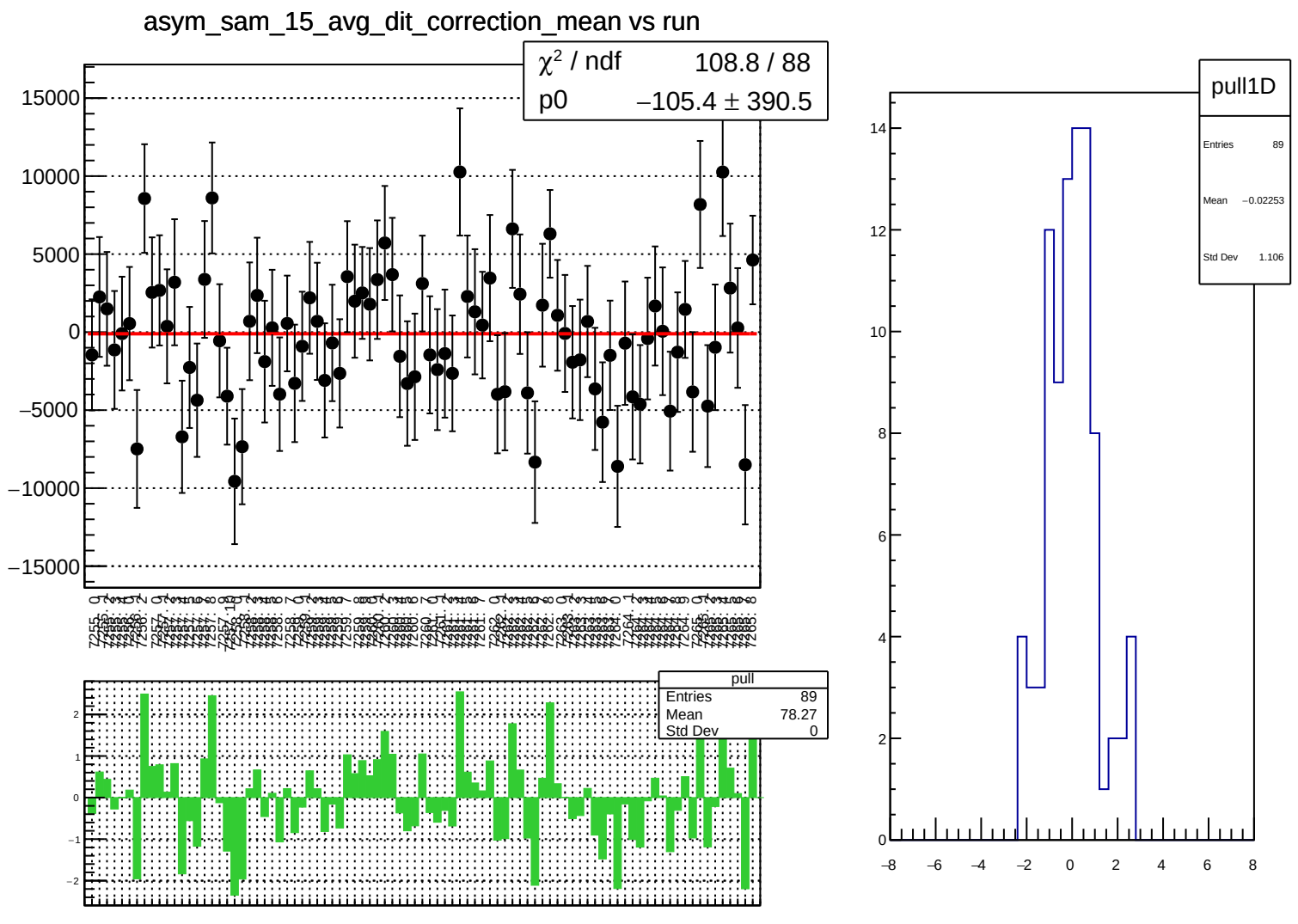

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 107.7 / 88
p0 −114.2 ± 380.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 84.42
Std Dev 0
2
1
0
−1
−2

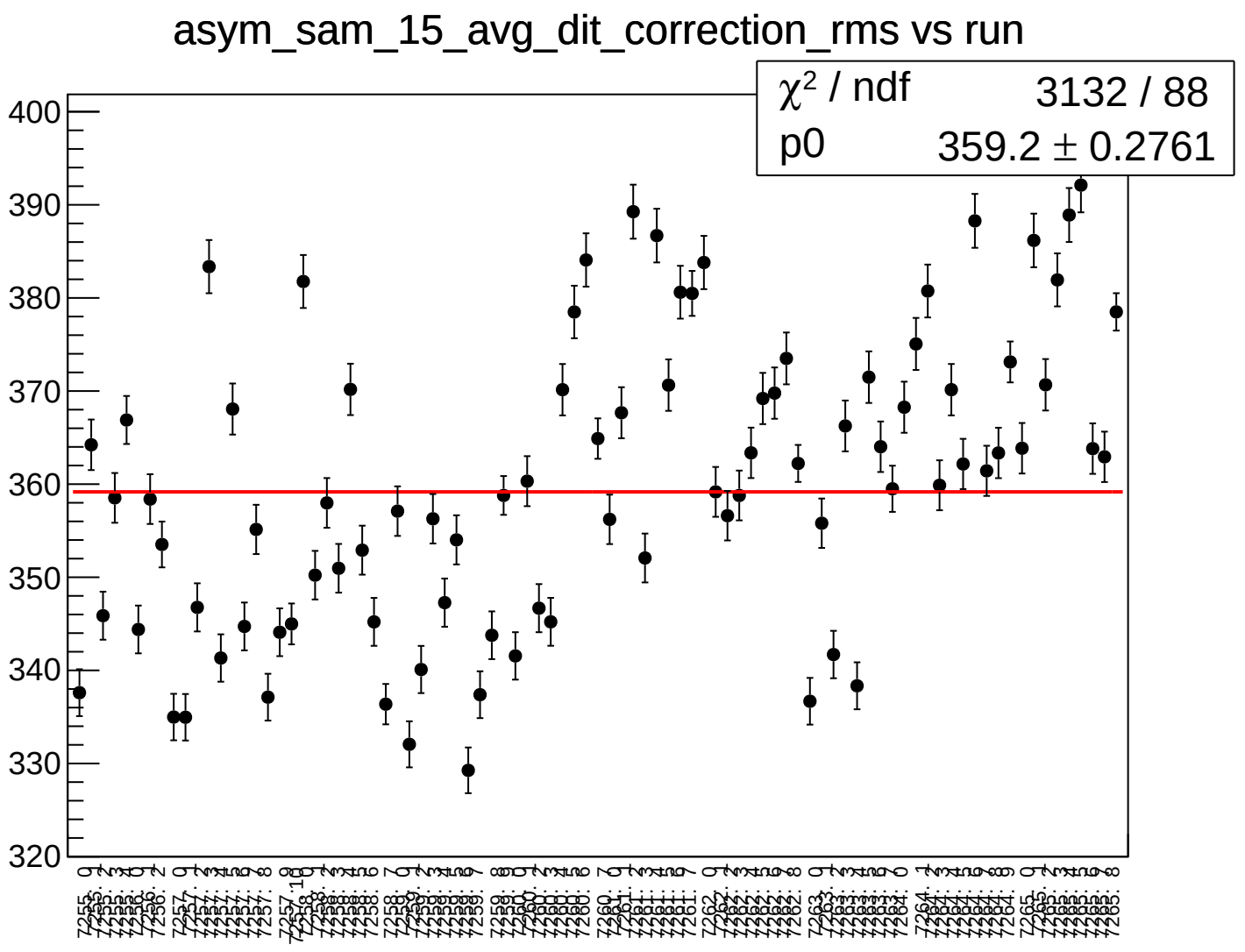

pull1D
Entries 89
Mean −0.02097
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

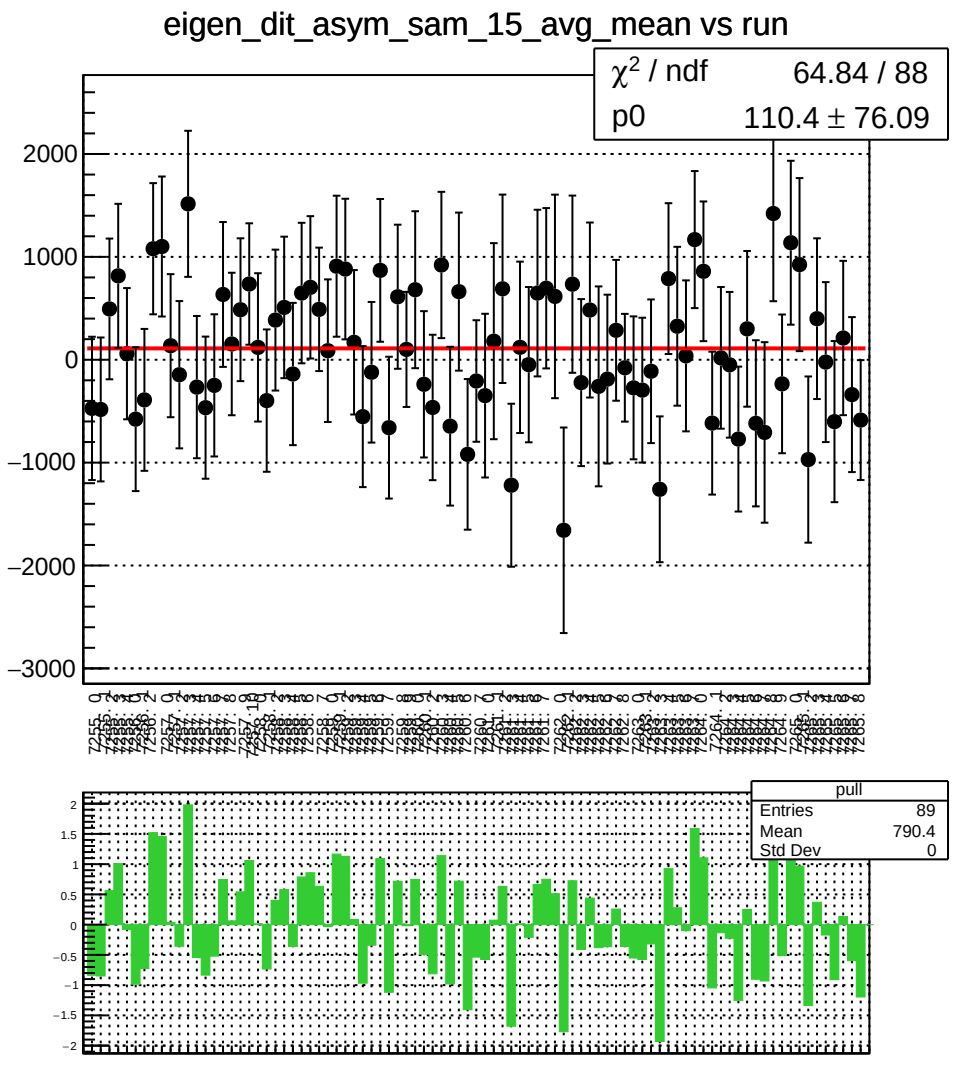

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 5929 / 88
p0 349.4 ± 0.2688
400
390
380
370
360
350
340
330
320
310

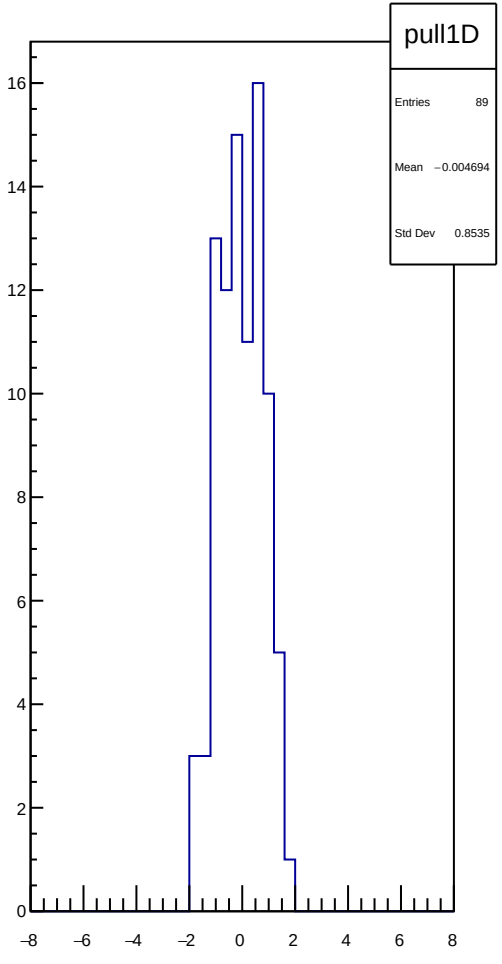

dit_asym_sam_15_avg_mean vs run
χ² / ndf 64.84 / 88
p0 110.4 ± 76.09
pull
Entries 89
Mean 790.5
Std Dev 0
pull1D
Entries 89
Mean −0.004694
Std Dev 0.8535

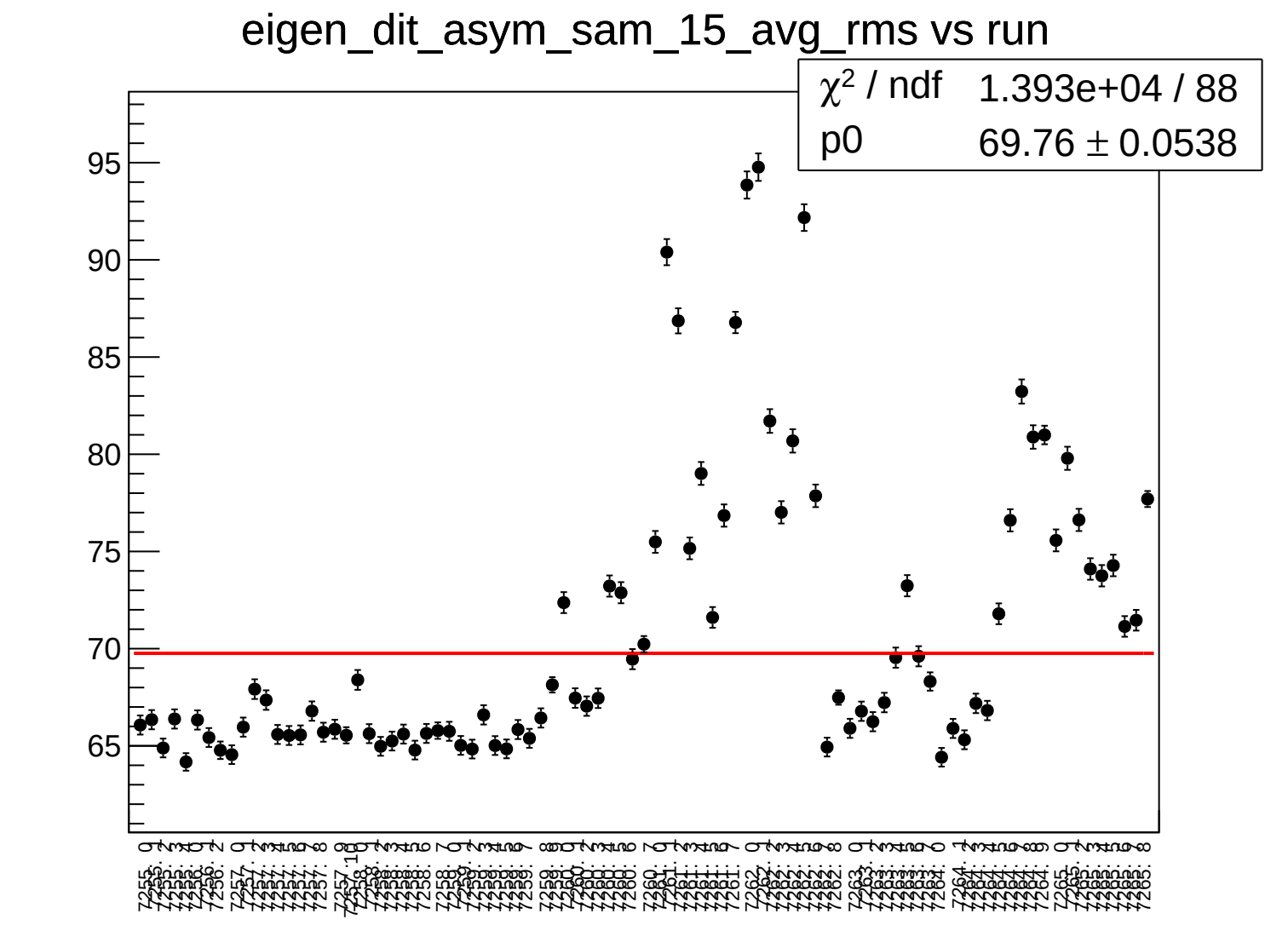

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.394e+04 / 88
p0 69.76 ± 0.0538
95
90
85
80
75
70
65

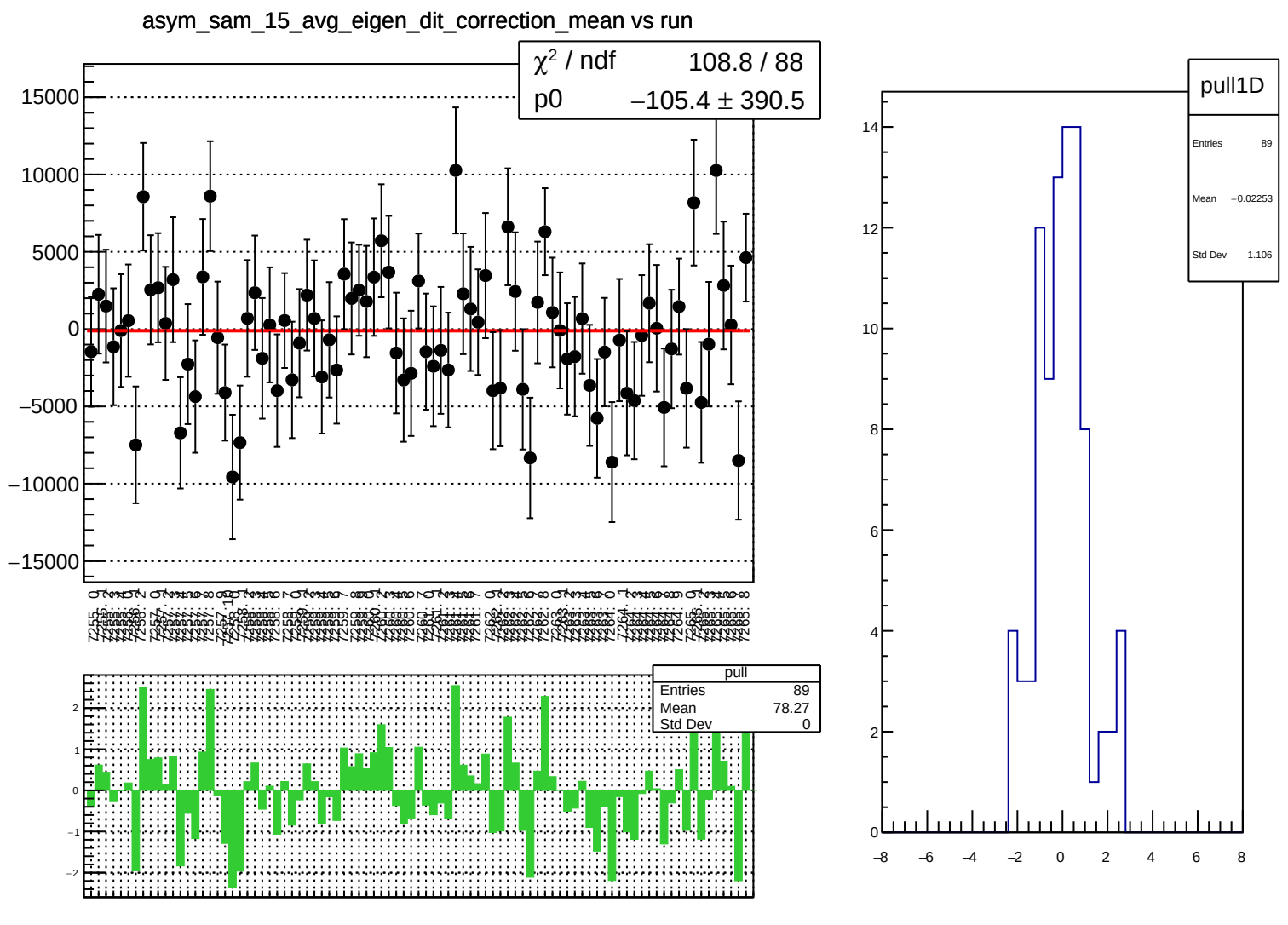

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 108.8 / 88
p0 −105.4 ± 390.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 78.27
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02253
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

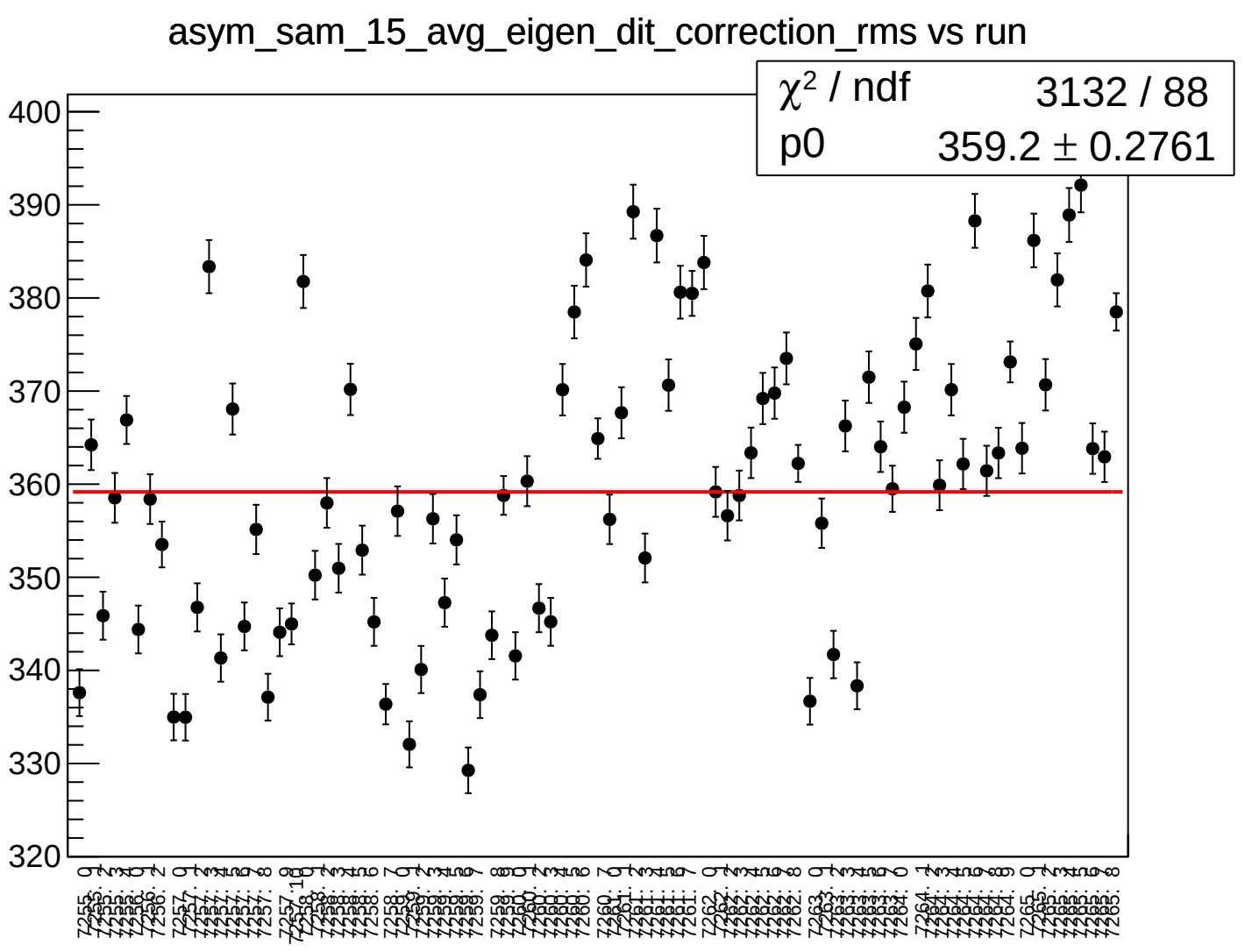

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 3132 / 88
p0 359.2 ± 0.2761
400
390
380
370
360
350
340
330
320

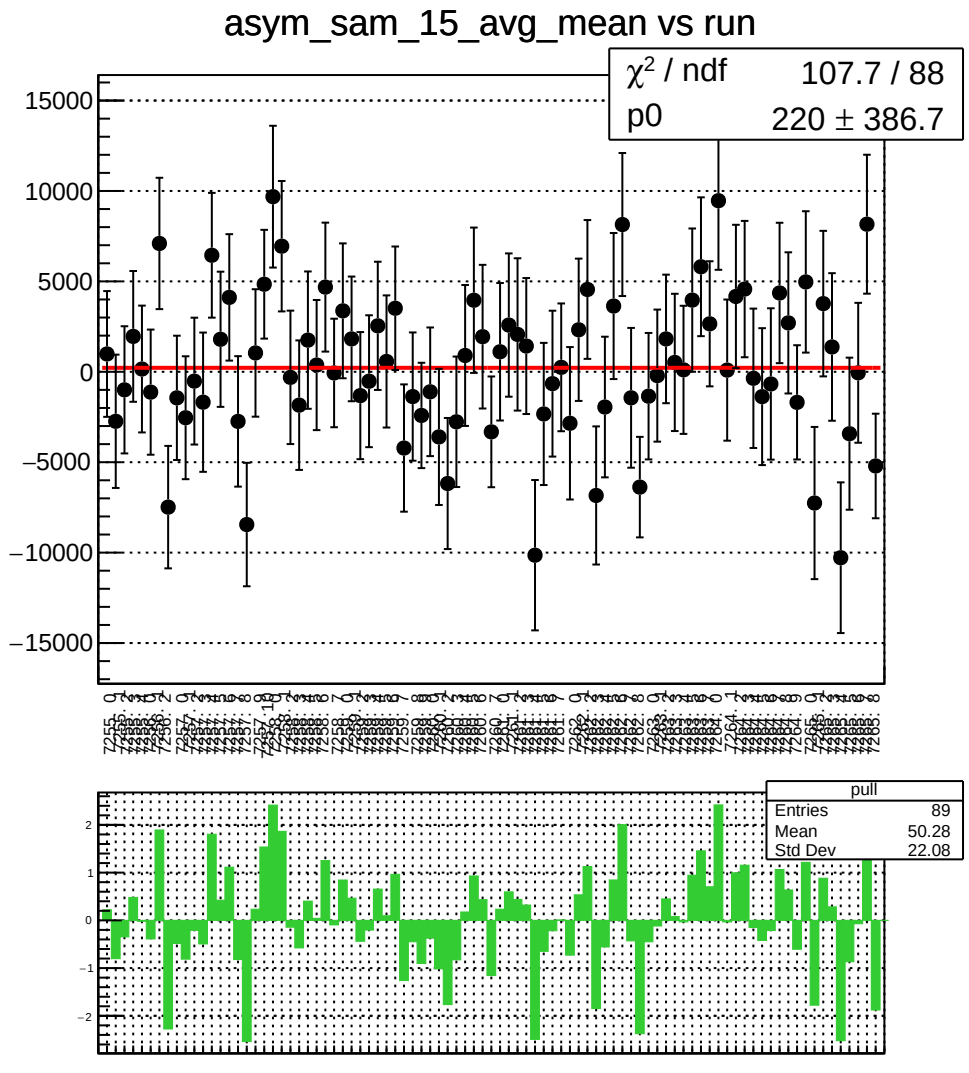

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 64.84 / 88
p0 110.4 ± 76.09
pull
Entries 89
Mean 790.4
Std Dev 0

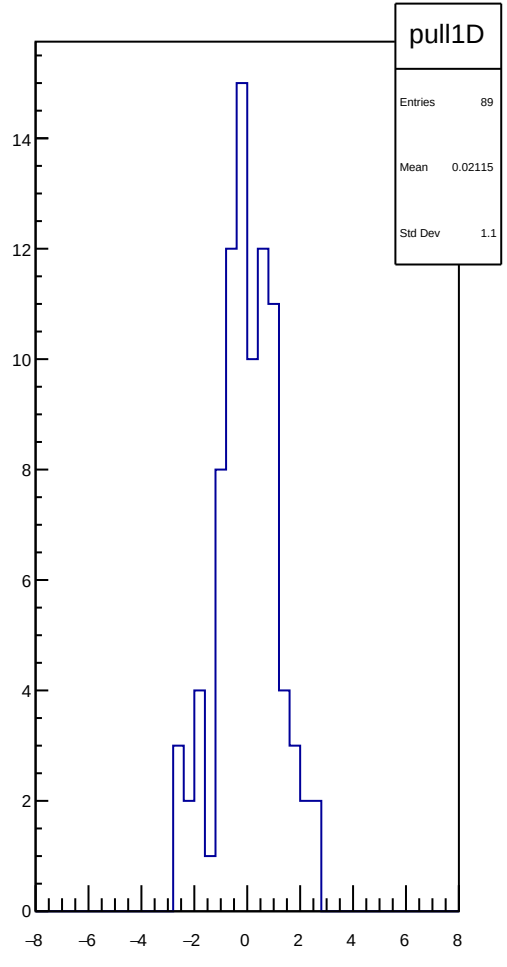

pull1D
Entries 89
Mean −0.004694
Std Dev 0.8535

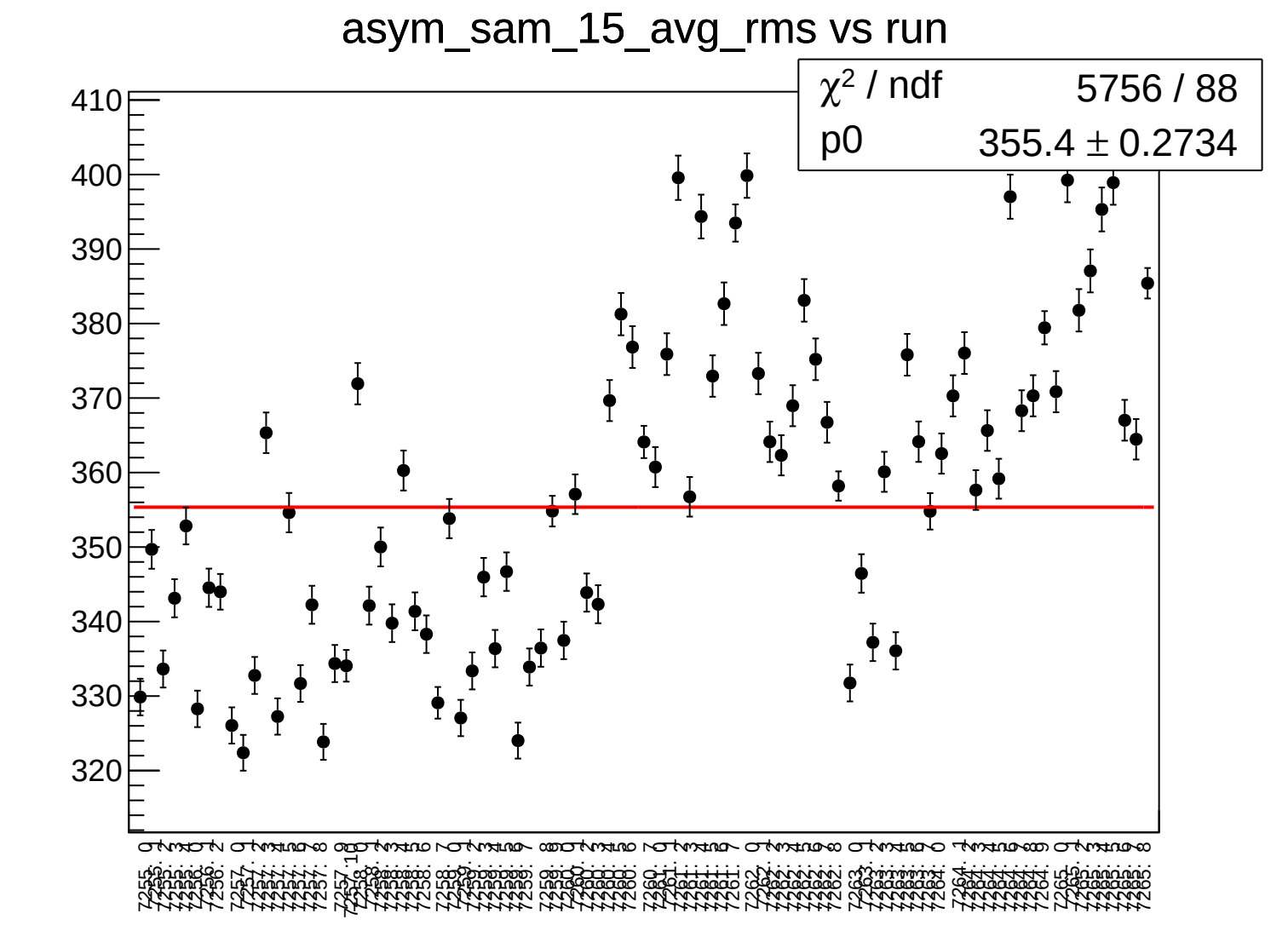

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.393e+04 / 88
p0 69.76 ± 0.0538
95
90
85
80
75
70
65

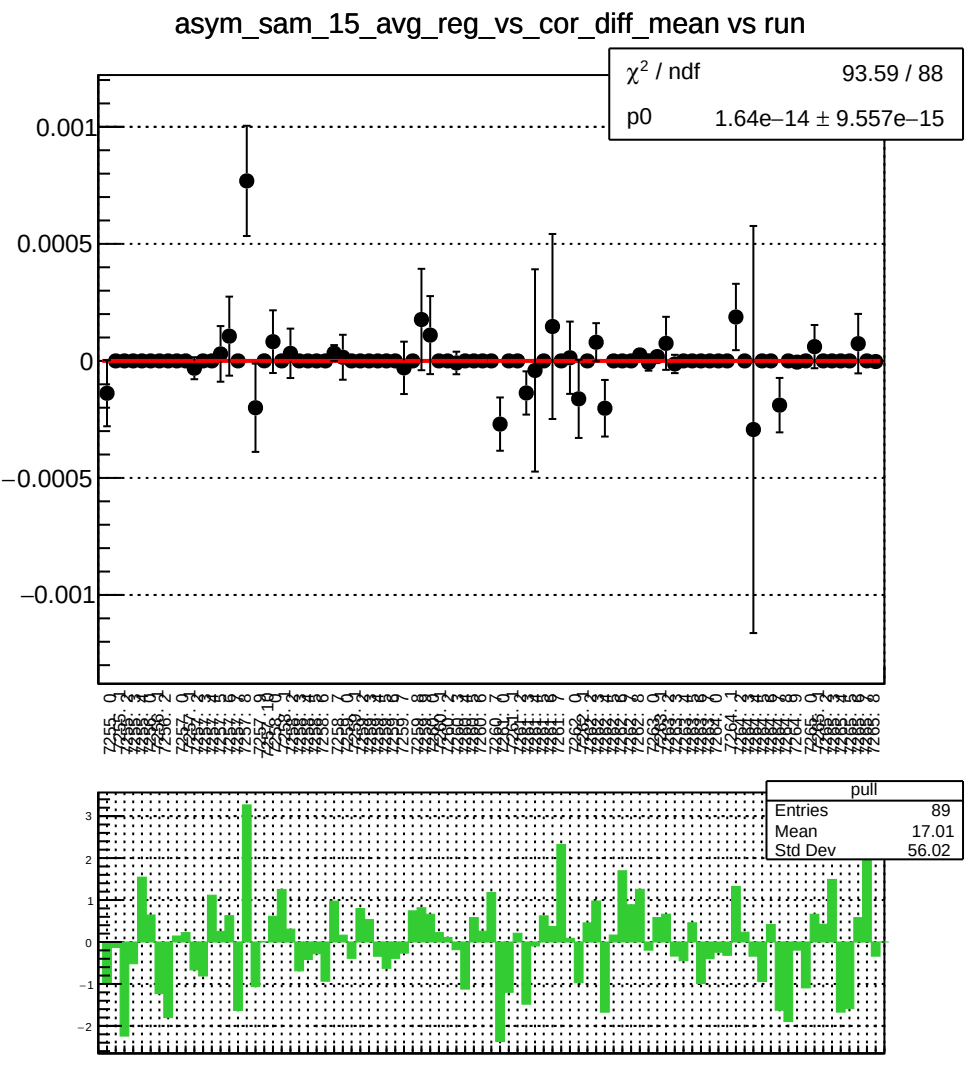

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 108.8 / 88
p0 −105.4 ± 390.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 78.27
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02253
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

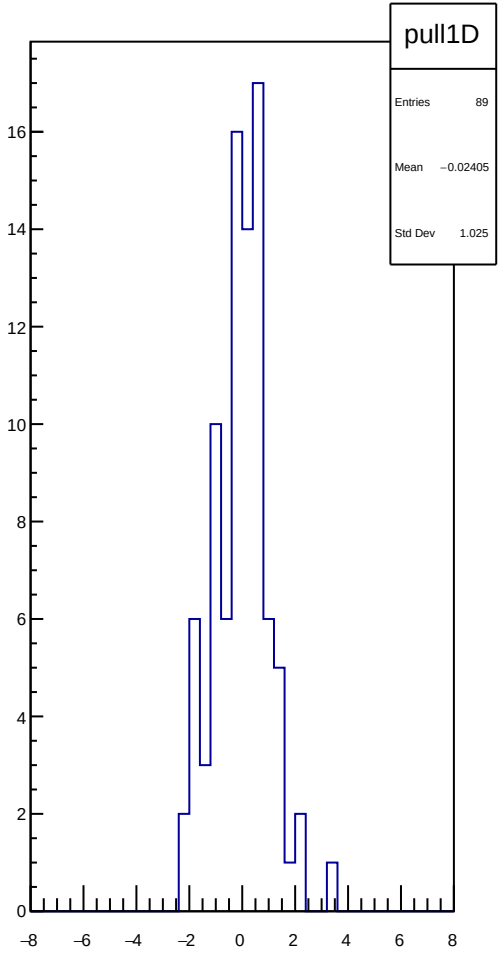

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 3132 / 88
p0 359.2 ± 0.2761
400
390
380
370
360
350
340
330
320

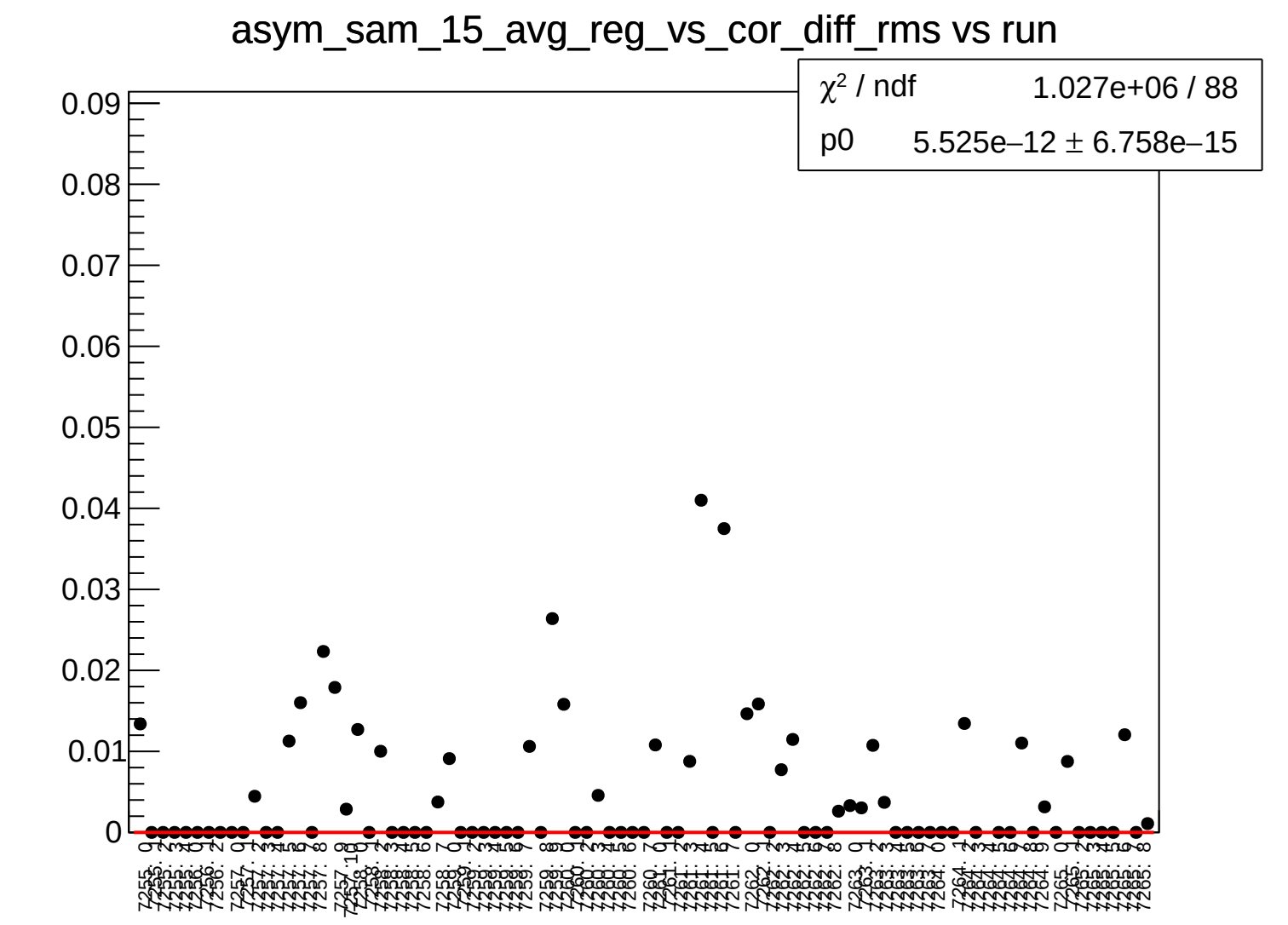

asym_sam_15_avg_mean vs run
χ² / ndf 107.7 / 88
p0 220 ± 386.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 50.28
Std Dev 22.08
2
1
0
−1
−2

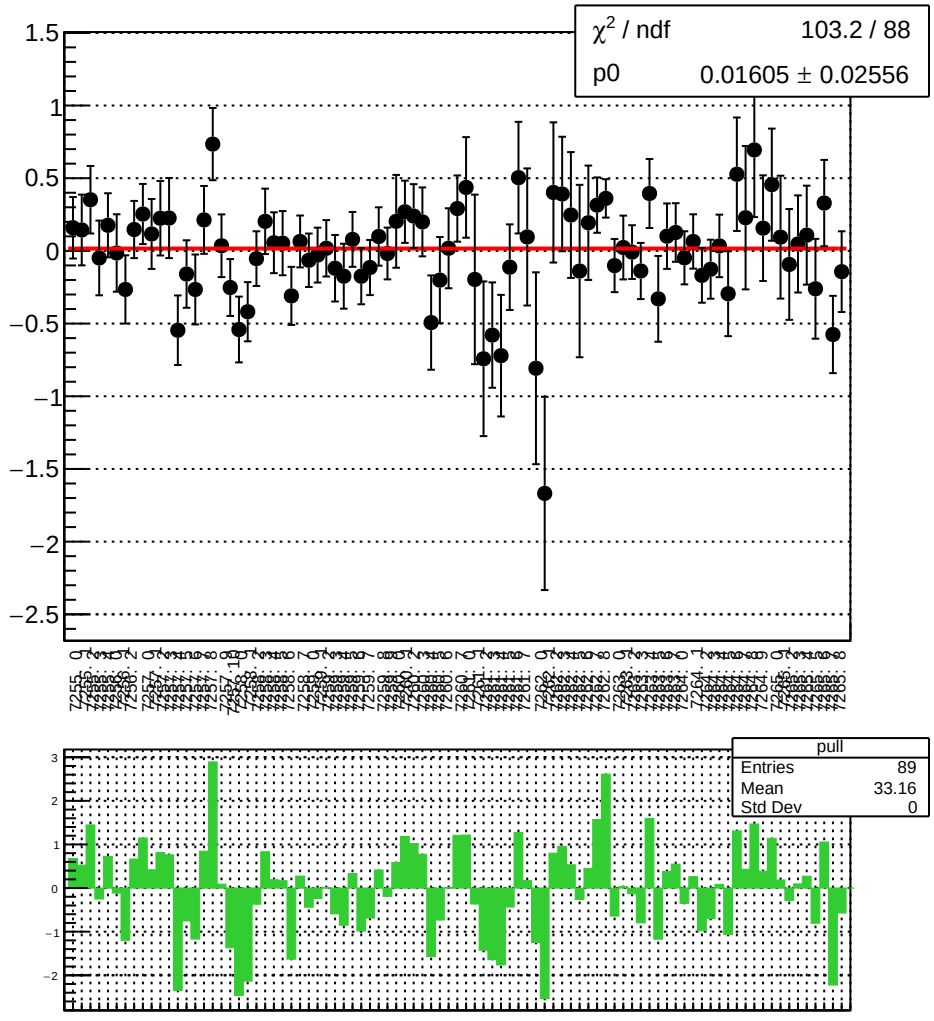

pull1D
Entries 89
Mean 0.02115
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

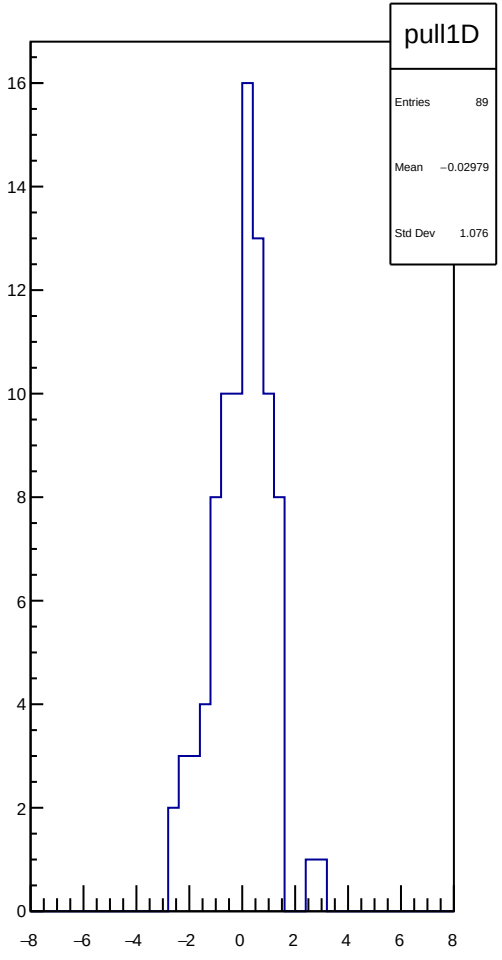

asym_sam_15_avg_rms vs run
χ^2 / ndf 5756 / 88
p0 355.4 ± 0.2734
410
400
390
380
370
360
350
340
330
320

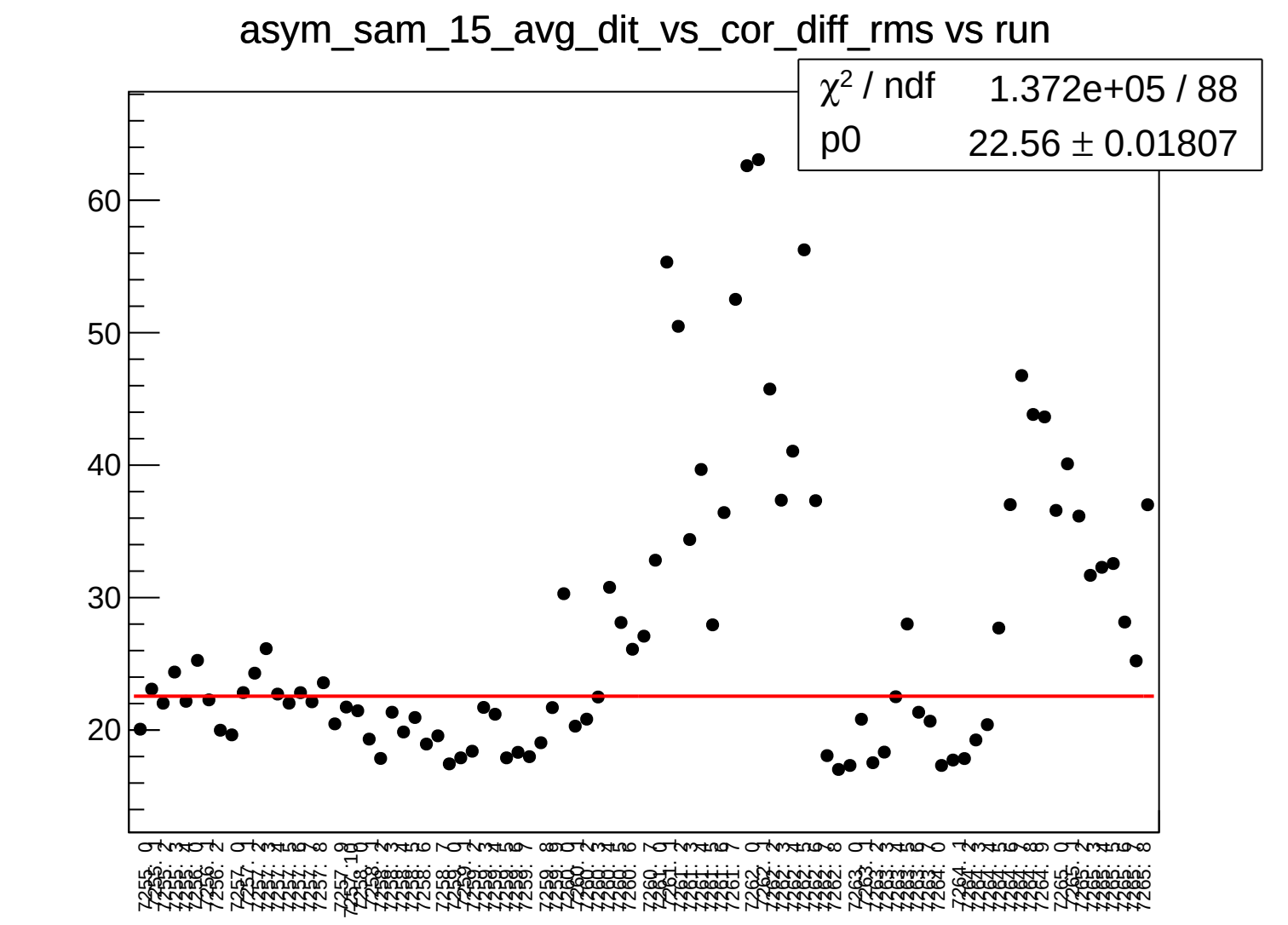

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.59 / 88
p0 1.64e−14 ± 9.557e−15
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 17.01
Std Dev 56.02
3
2
1
0
−1
−2

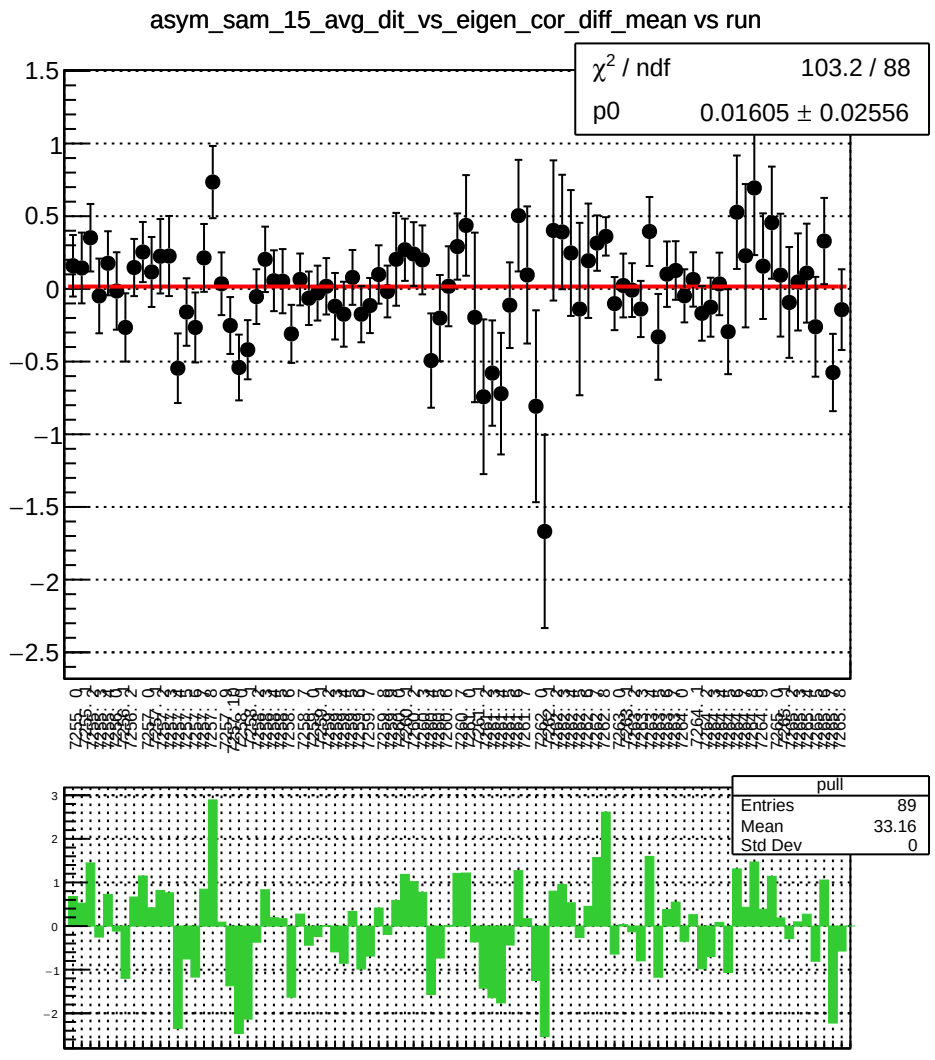

pull1D
Entries 89
Mean −0.02405
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

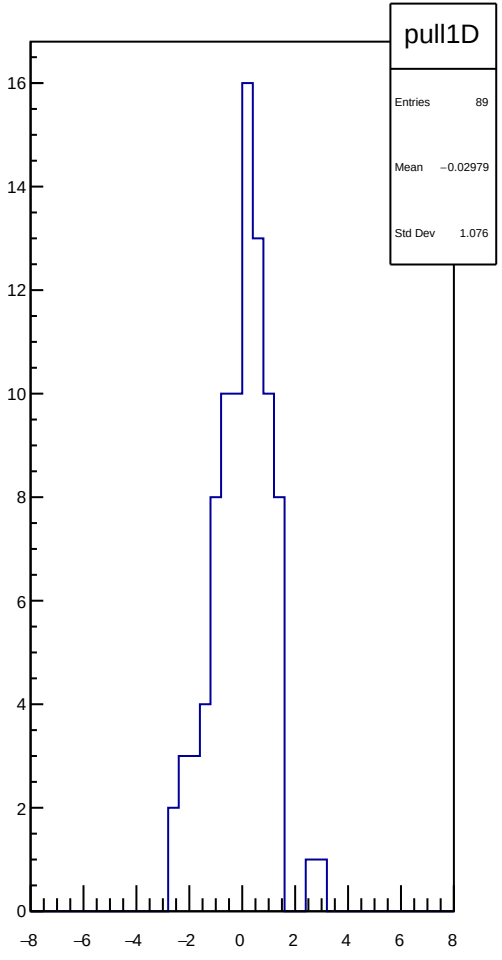

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.027e+06 / 88
p0 5.525e−12 ± 6.758e−15
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

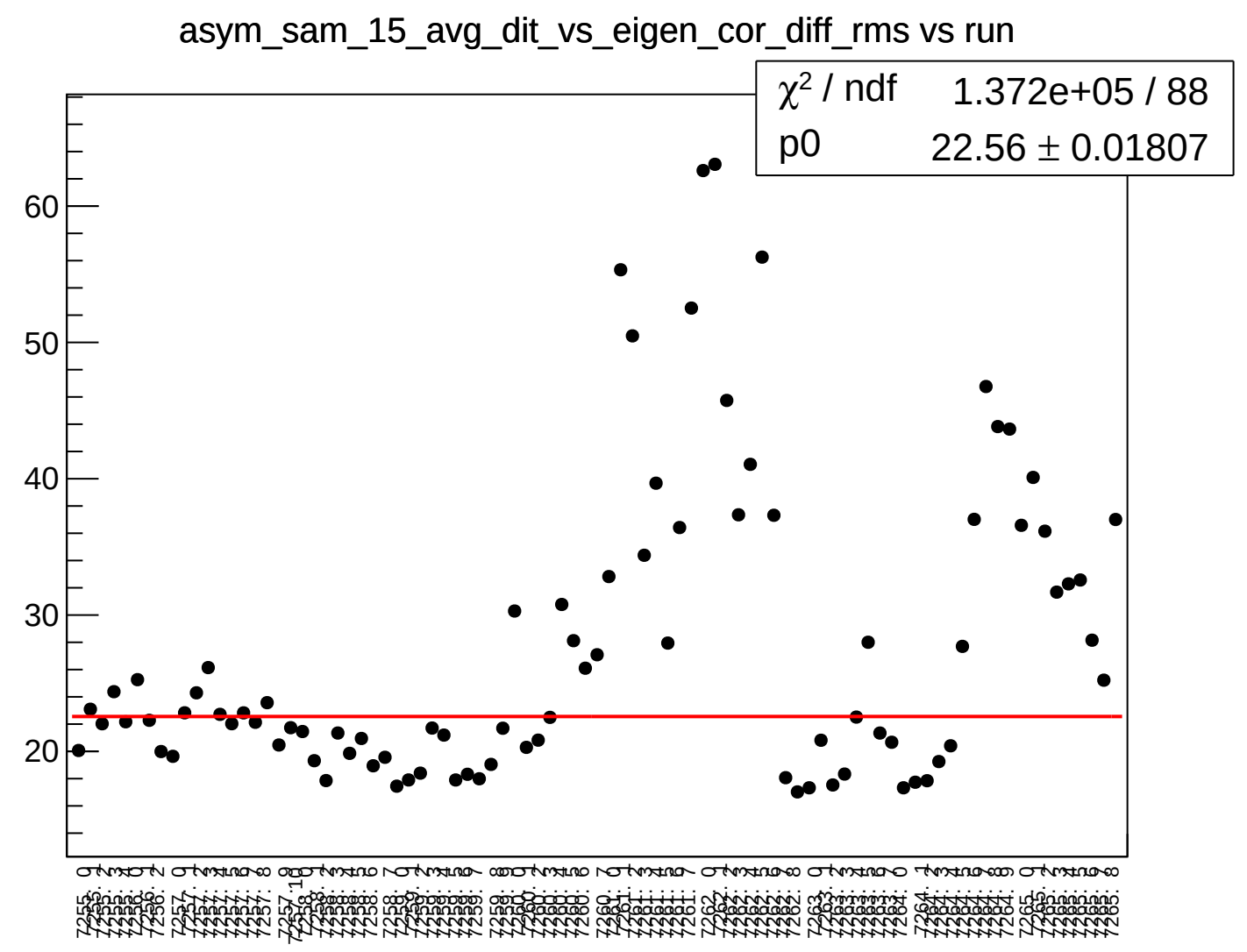

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 88
p0 0.01605 ± 0.02556
pull
Entries 89
Mean 33.16
Std Dev 0

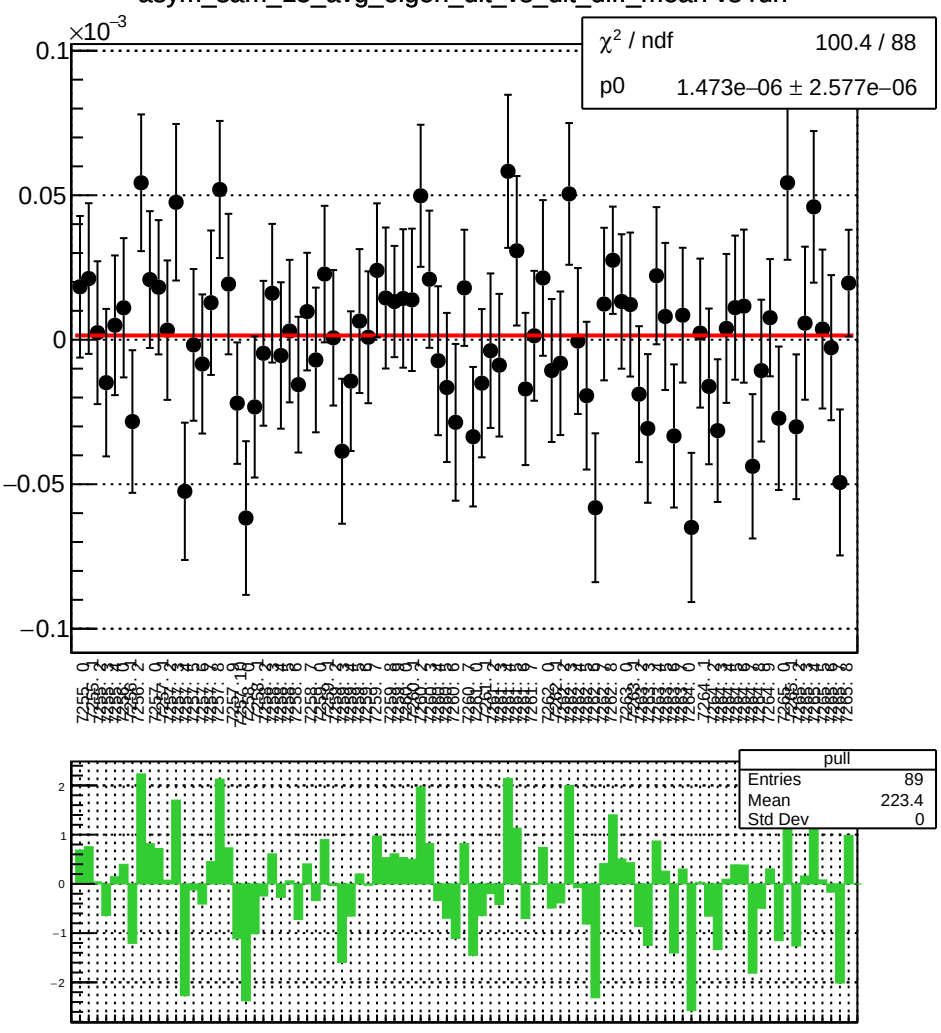

pull1D
Entries 89
Mean −0.02979
Std Dev 1.076

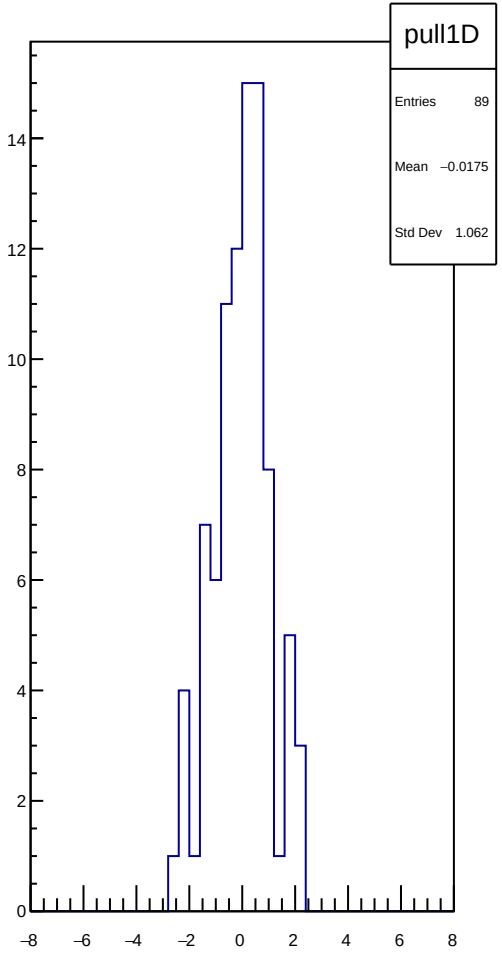

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.372e+05 / 88
p0 22.56 ± 0.01807
60
50
40
30
20

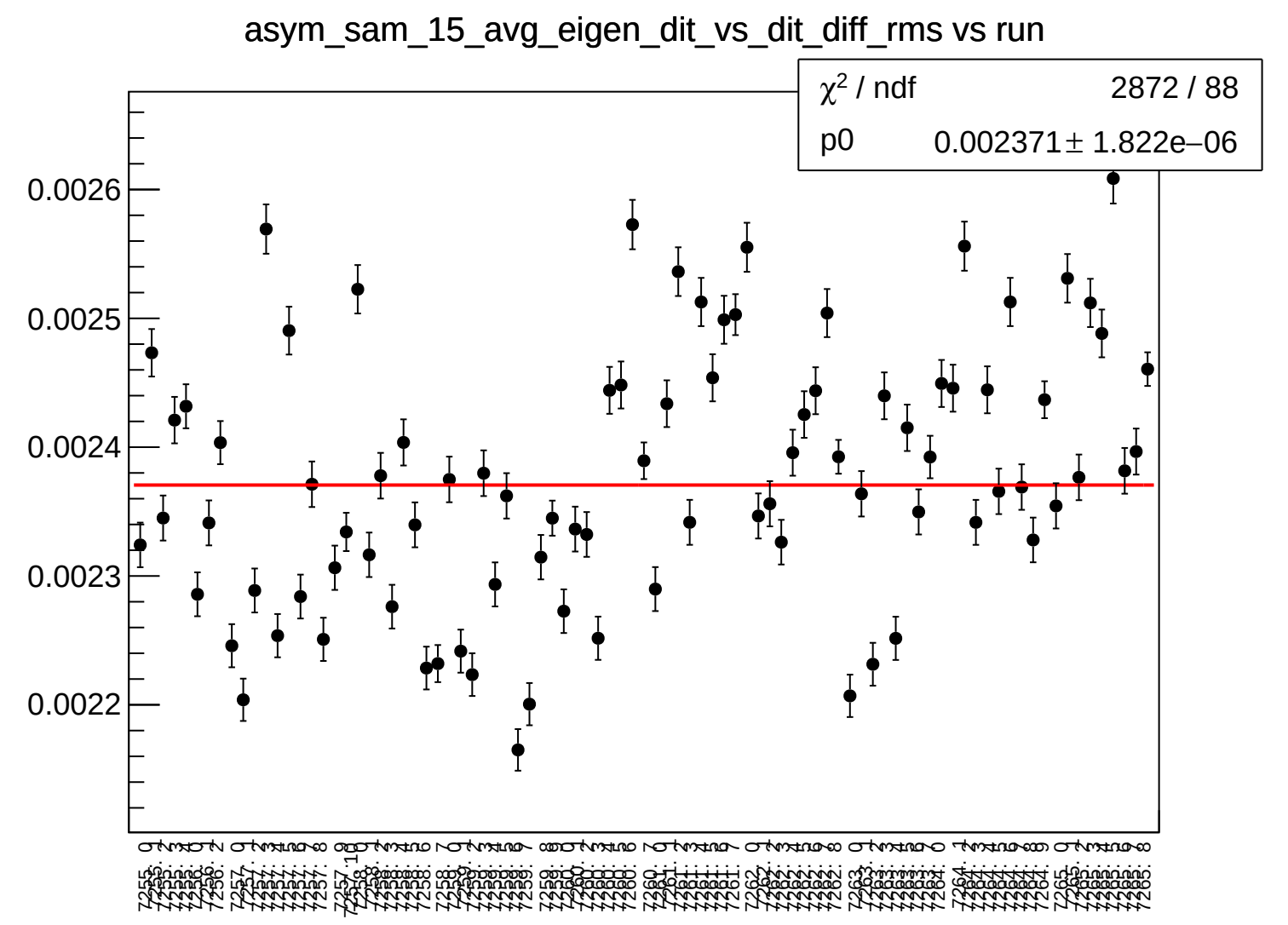

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 88
p0 0.01605 ± 0.02556
pull
Entries 89
Mean 33.16
Std Dev 0

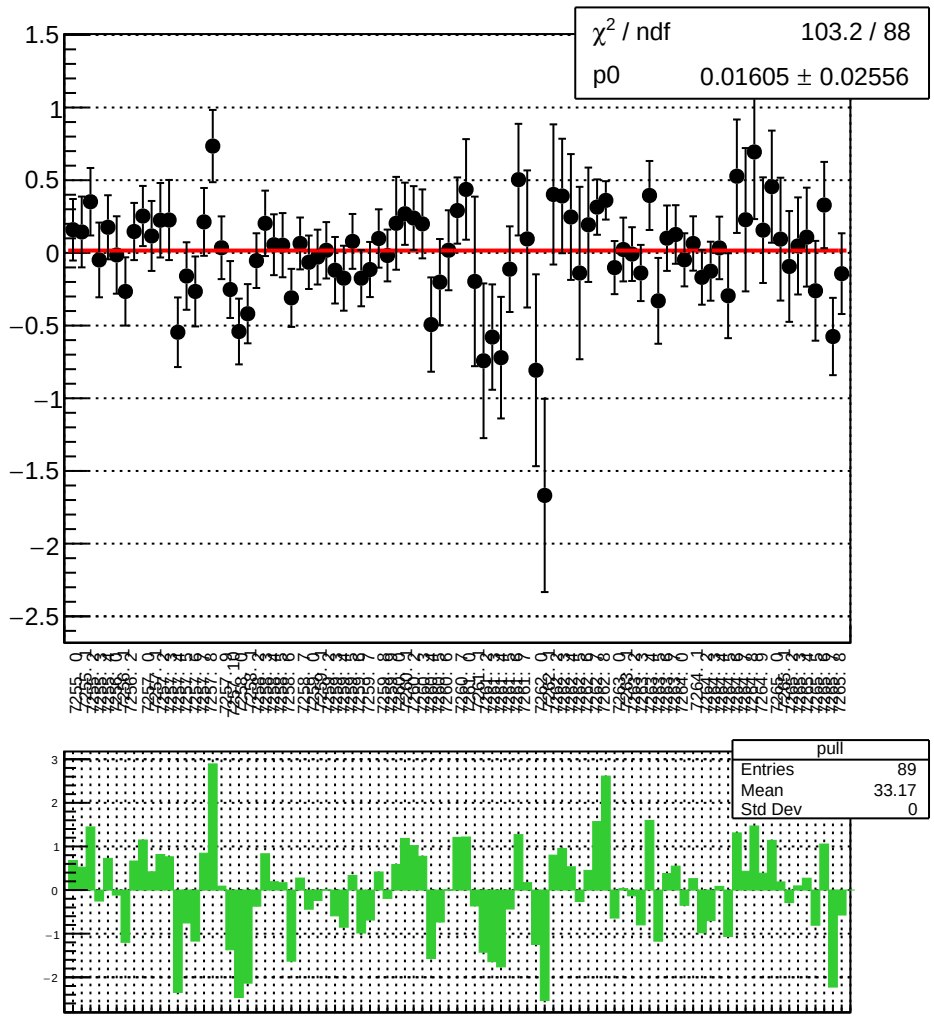

pull1D
Entries 89
Mean −0.02979
Std Dev 1.076

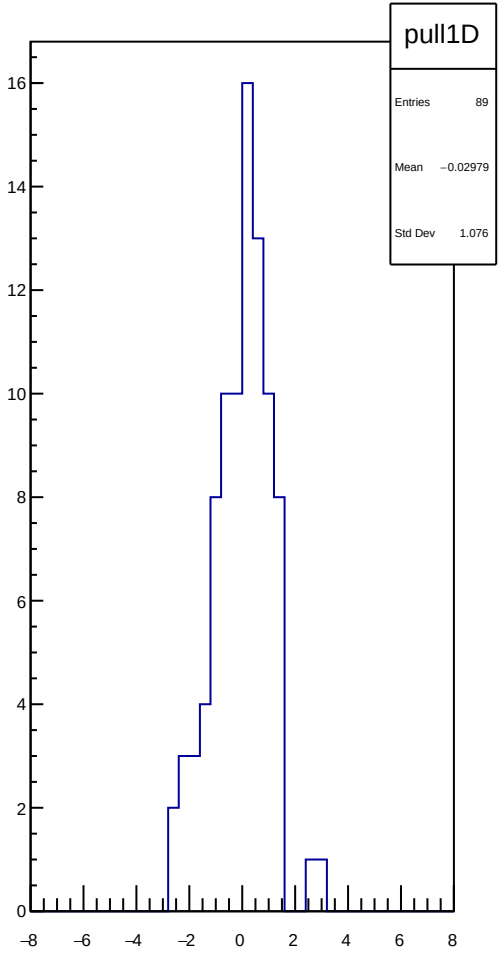

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.372e+05 / 88
p0 22.56 ± 0.01807
60
50
40
30
20

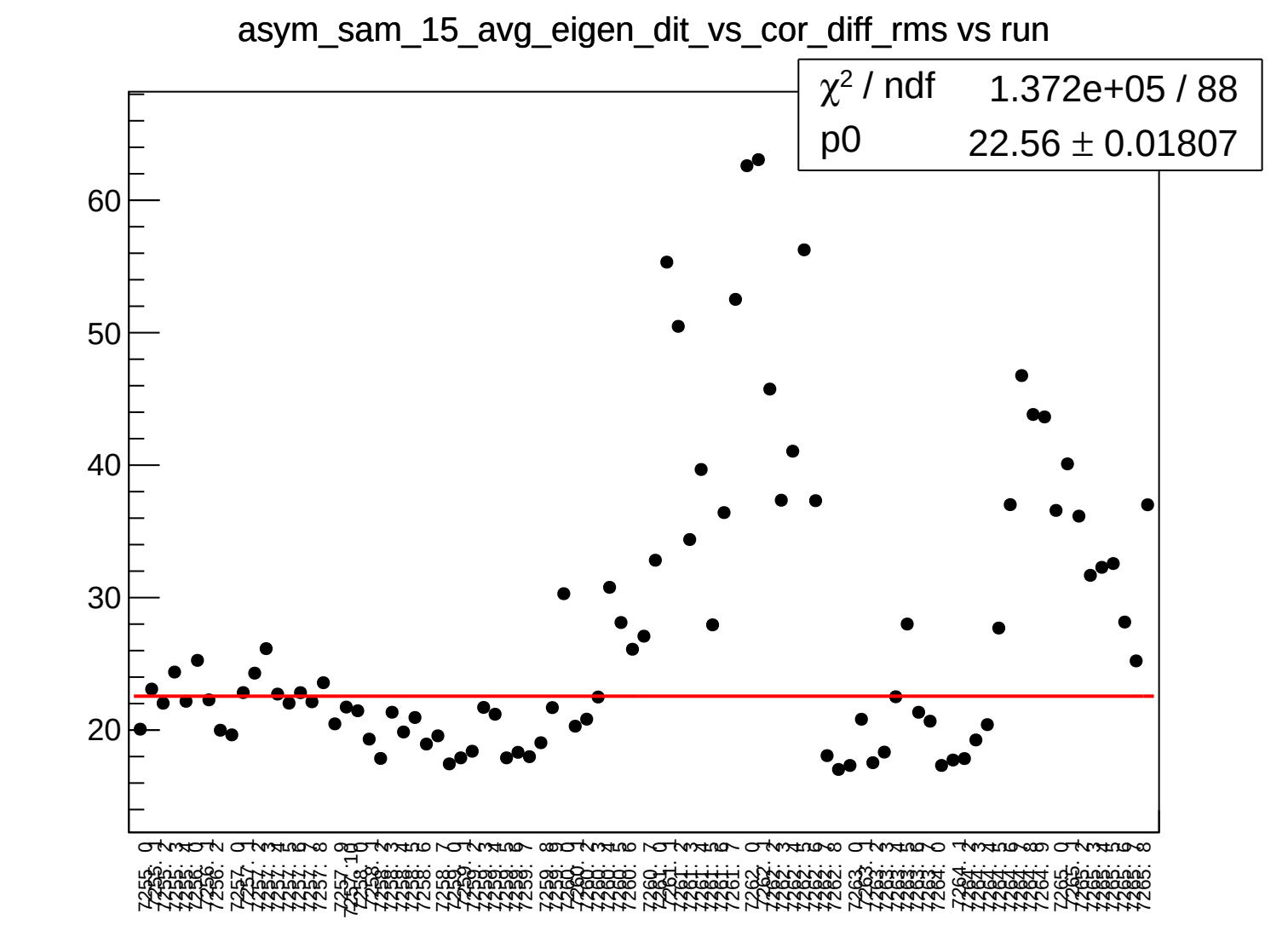

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.4 / 88
p0 1.473e−06 ± 2.577e−06
pull
Entries 89
Mean 223.4
Std Dev 0

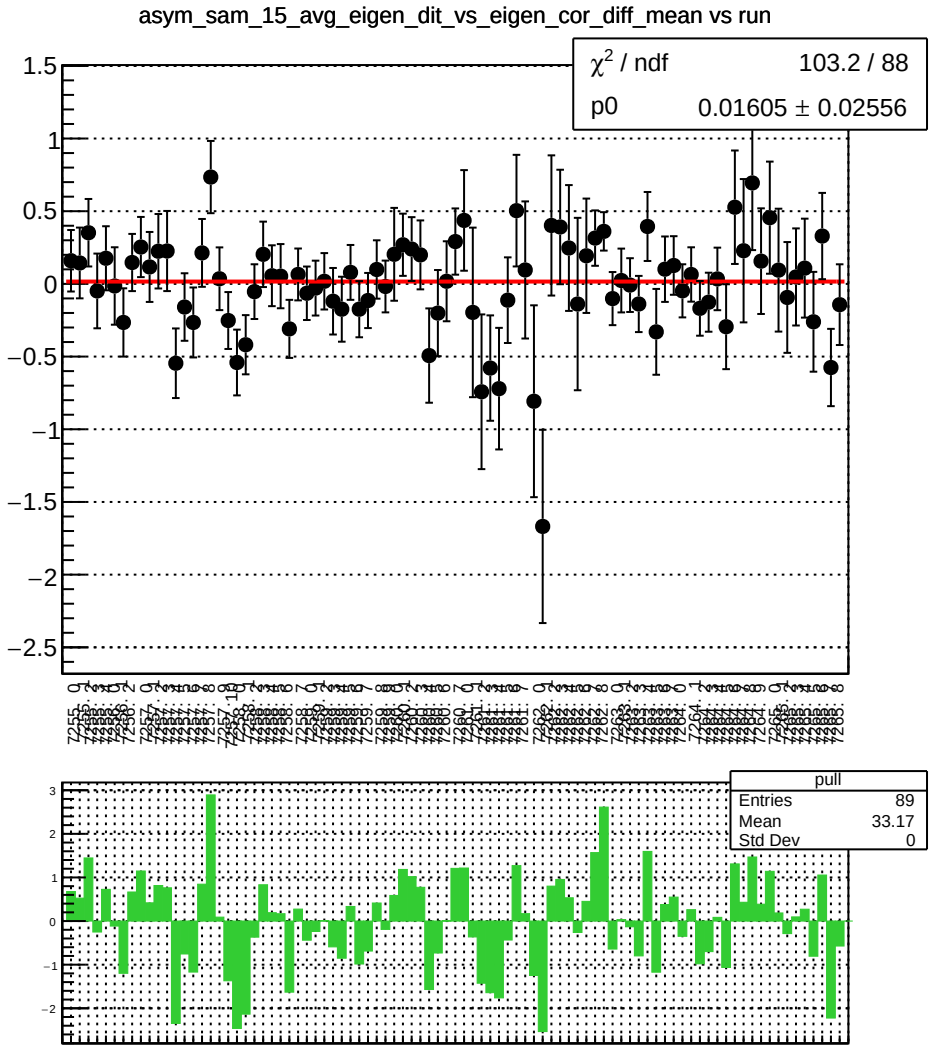

pull1D
Entries 89
Mean −0.0175
Std Dev 1.062

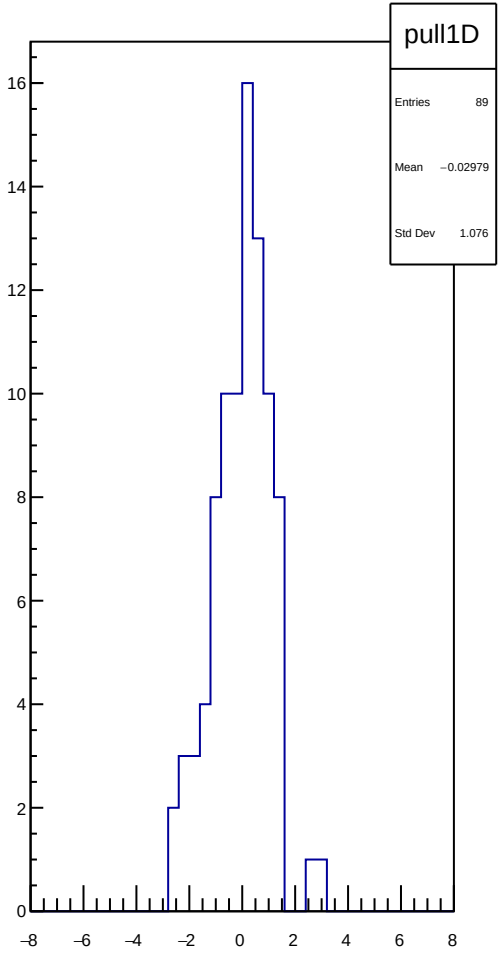

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2872 / 88
p0 0.002371 ± 1.822e−06
0.0026
0.0025
0.0024
0.0023
0.0022

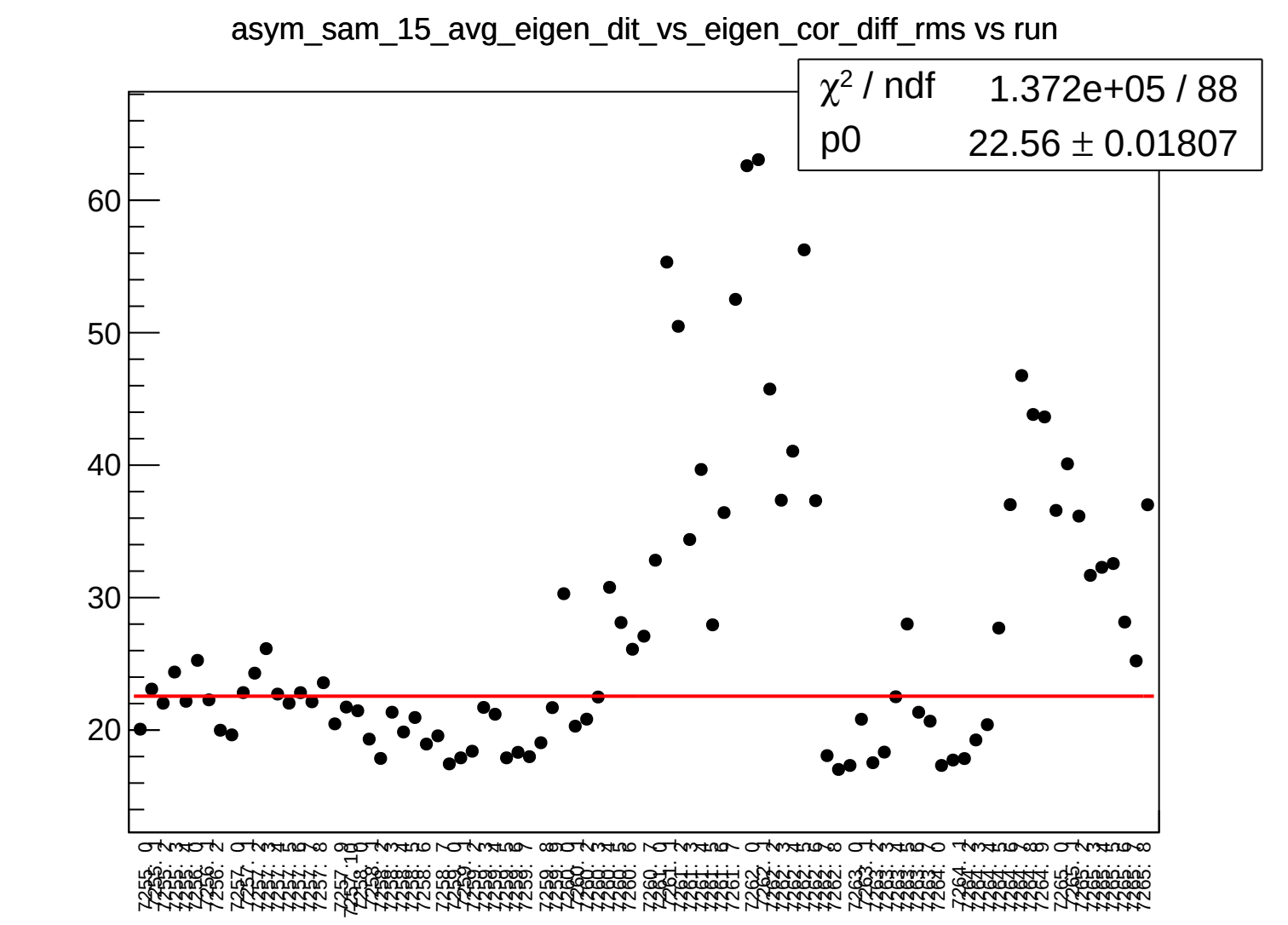

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 88
p0 0.01605 ± 0.02556
pull
Entries 89
Mean 33.17
Std Dev 0

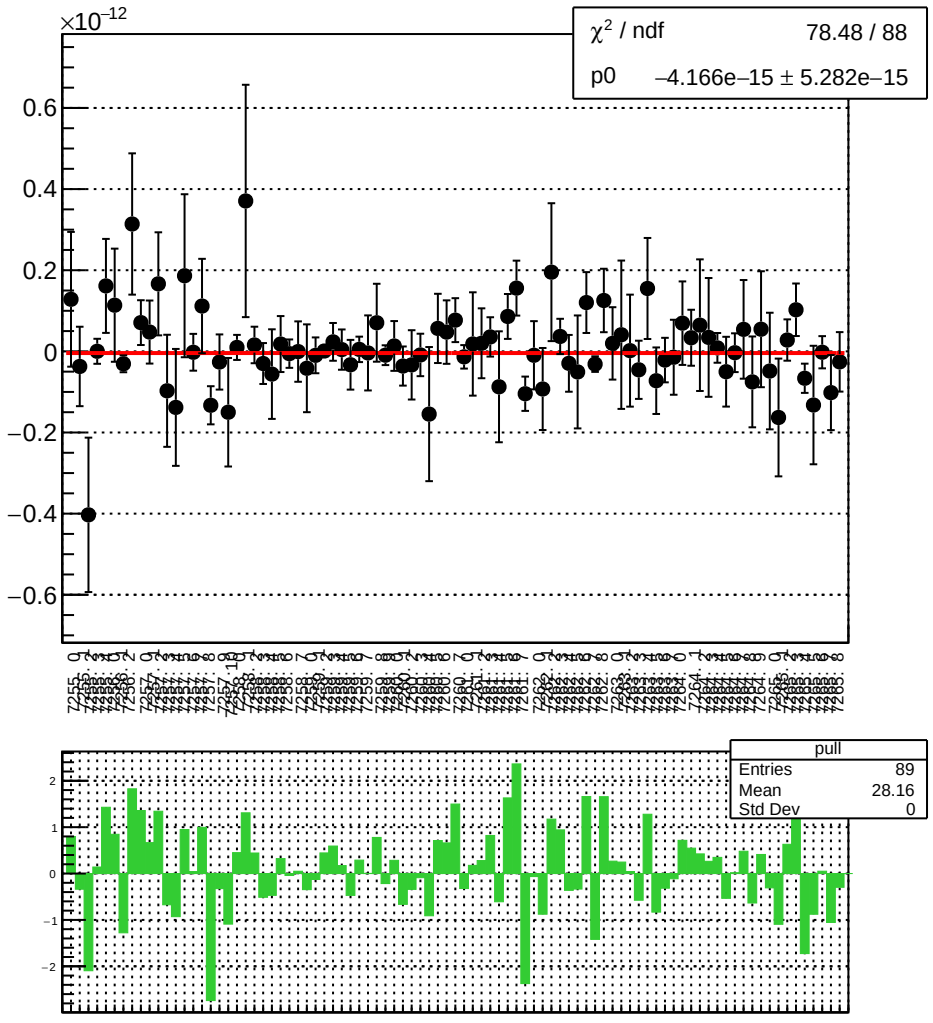

pull1D
Entries 89
Mean −0.02979
Std Dev 1.076

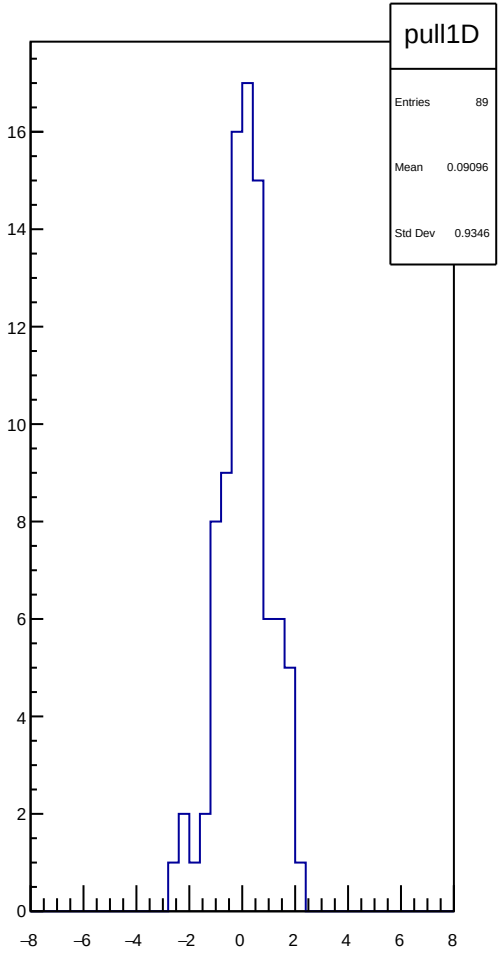

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.372e+05 / 88
p0 22.56 ± 0.01807
60
50
40
30
20

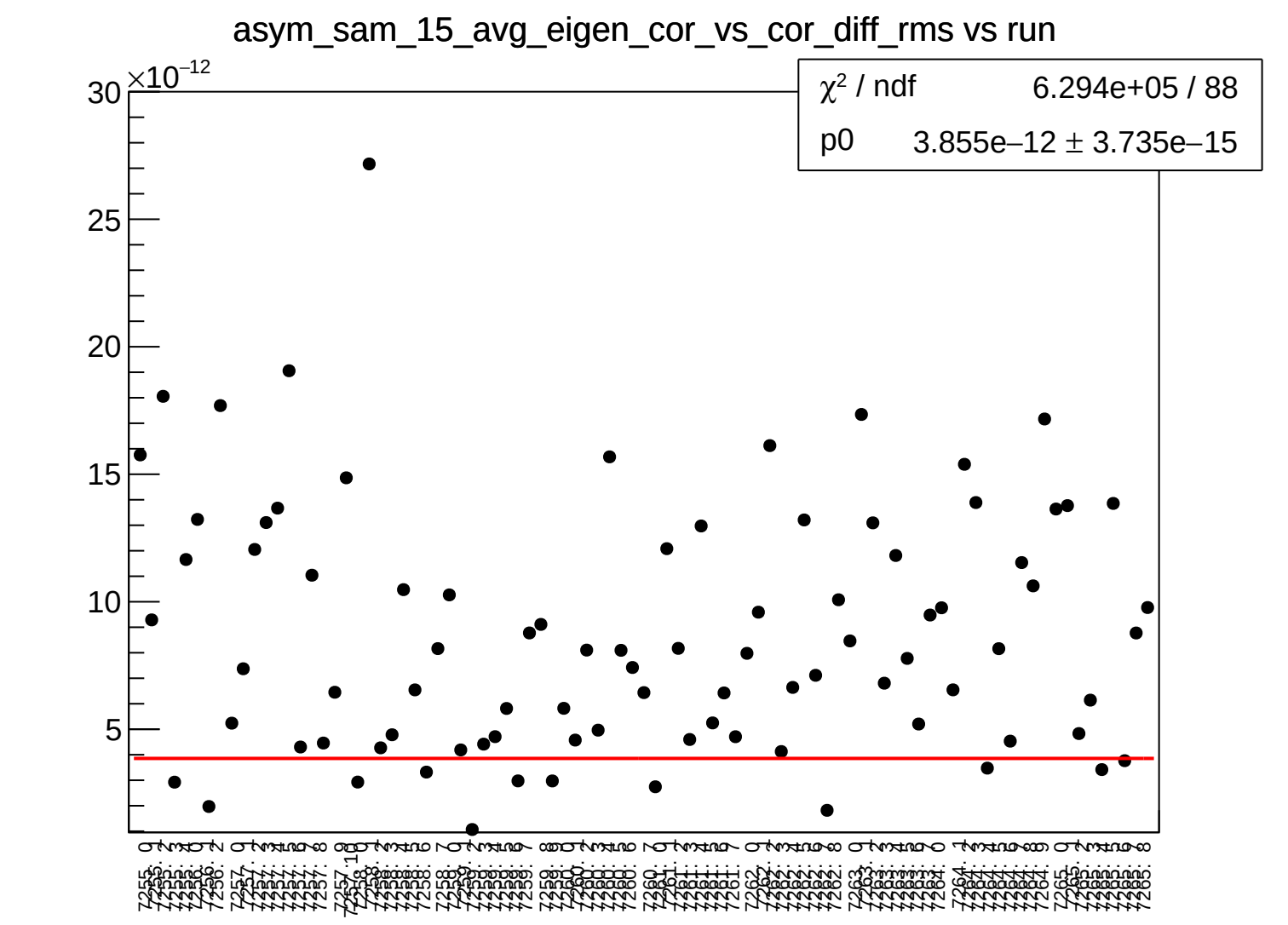

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 88
p0 0.01605 ± 0.02556
pull
Entries 89
Mean 33.17
Std Dev 0

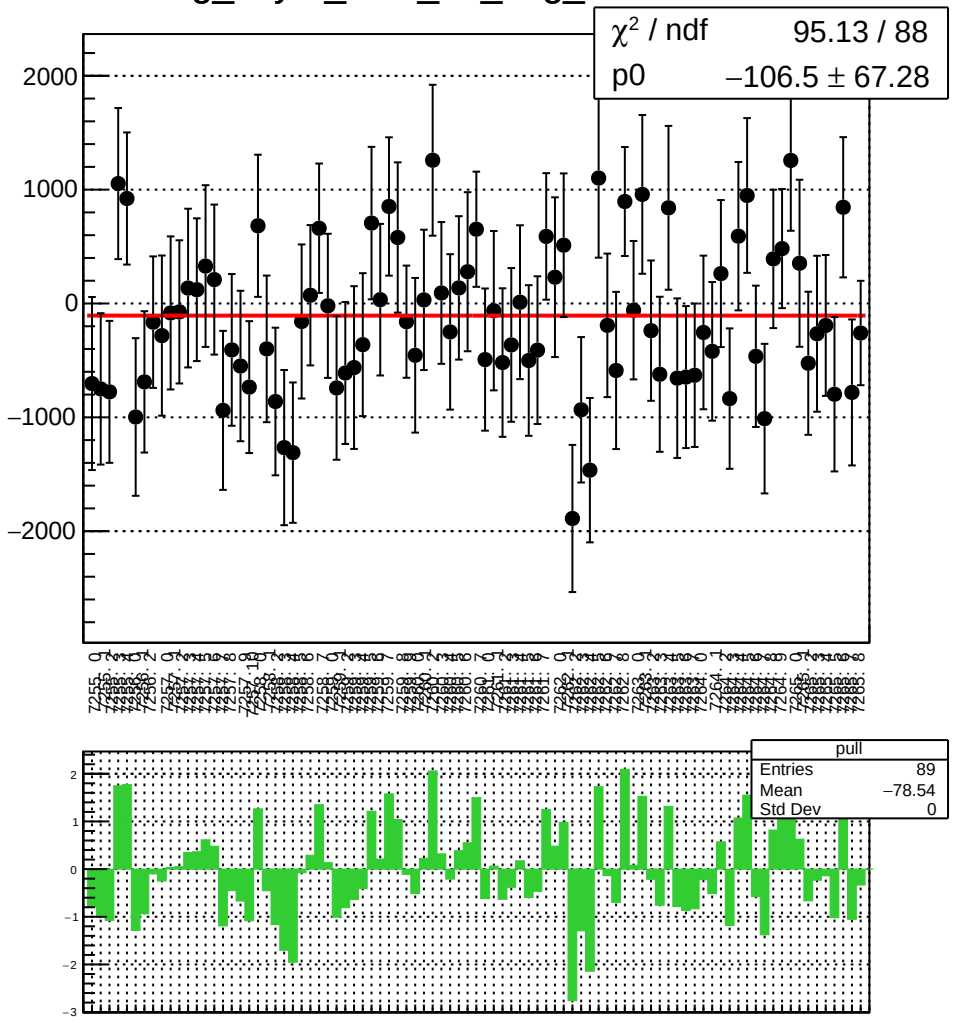

pull1D
Entries 89
Mean −0.02979
Std Dev 1.076

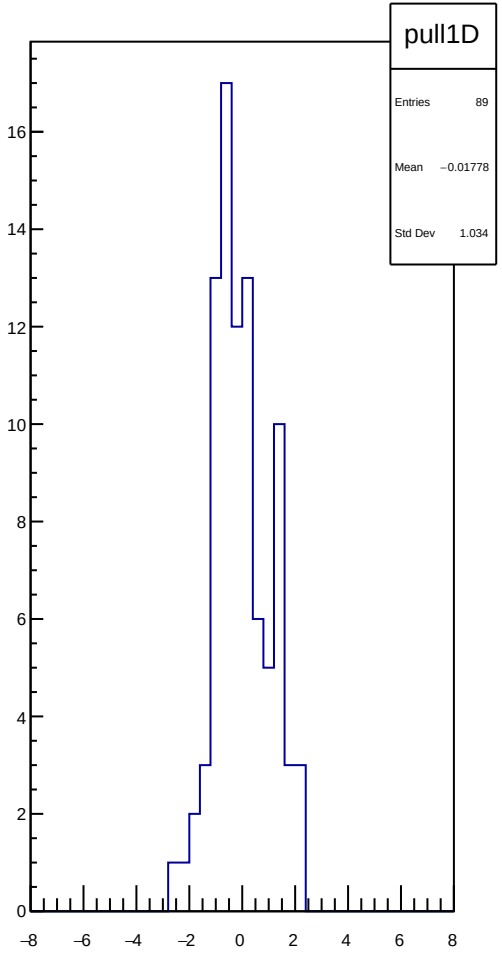

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.372e+05 / 88
p0 22.56 ± 0.01807
60
50
40
30
20

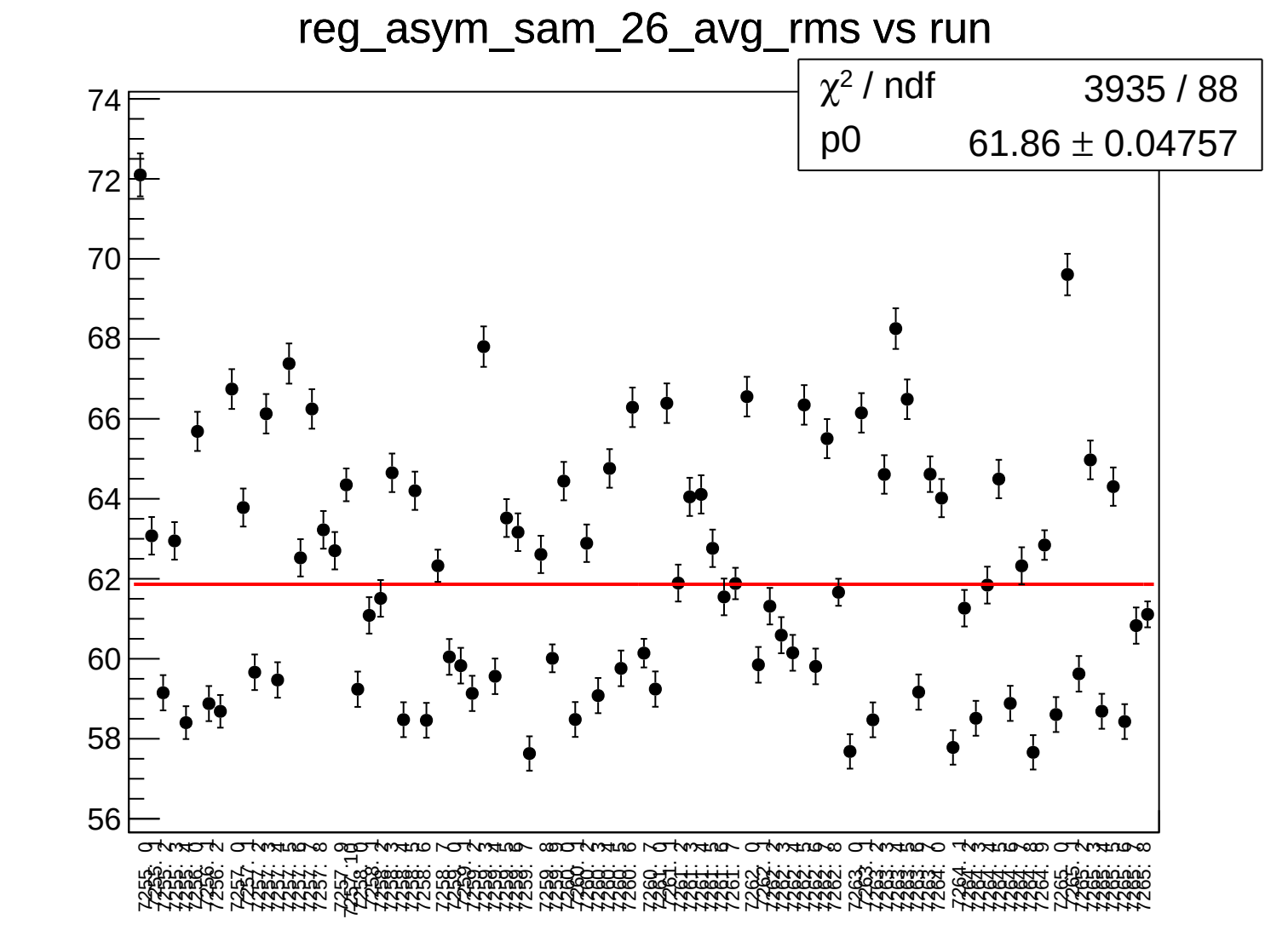

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.48 / 88
p0 −4.166e−15 ± 5.282e−15
pull
Entries 89
Mean 28.16
Std Dev 0

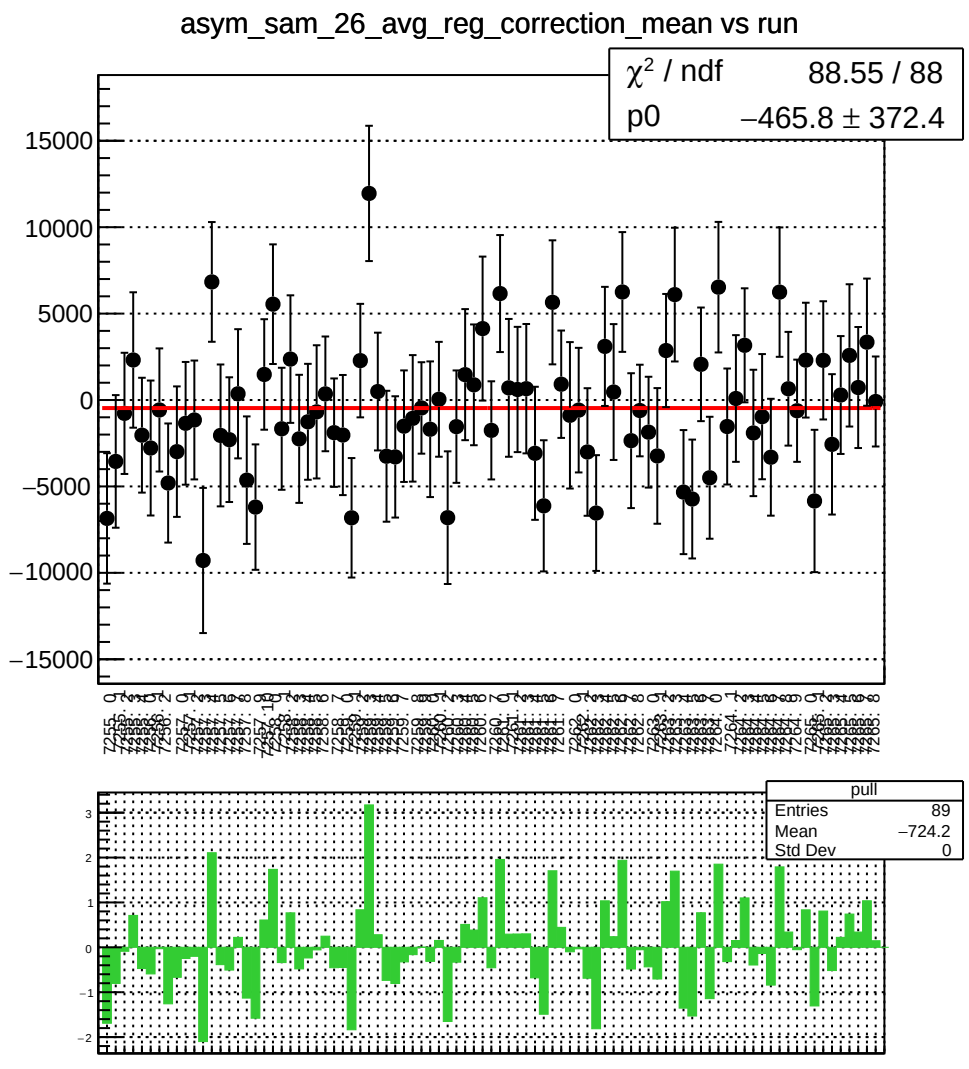

pull1D
Entries 89
Mean 0.09096
Std Dev 0.9346

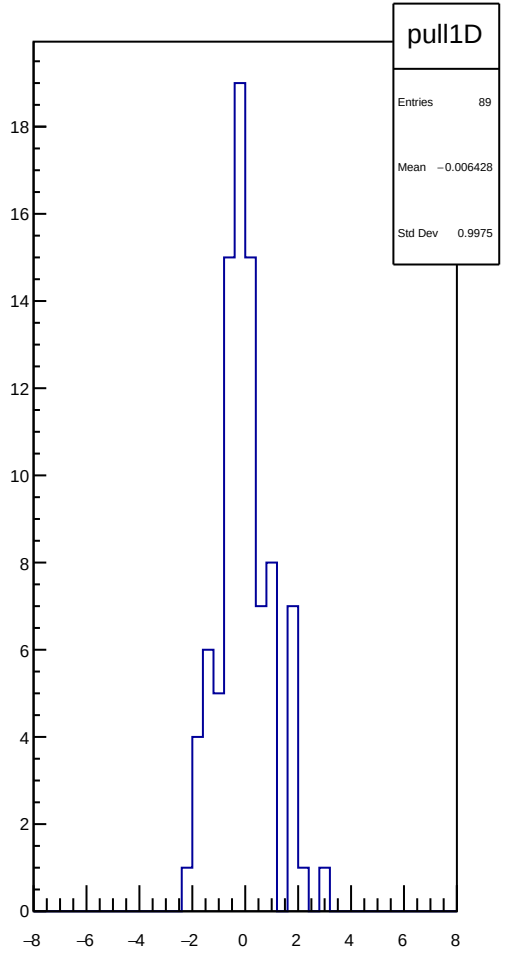

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
30
25
20
15
10
5
χ² / ndf 6.294e+05 / 88
p0 3.855e−12 ± 3.735e−15

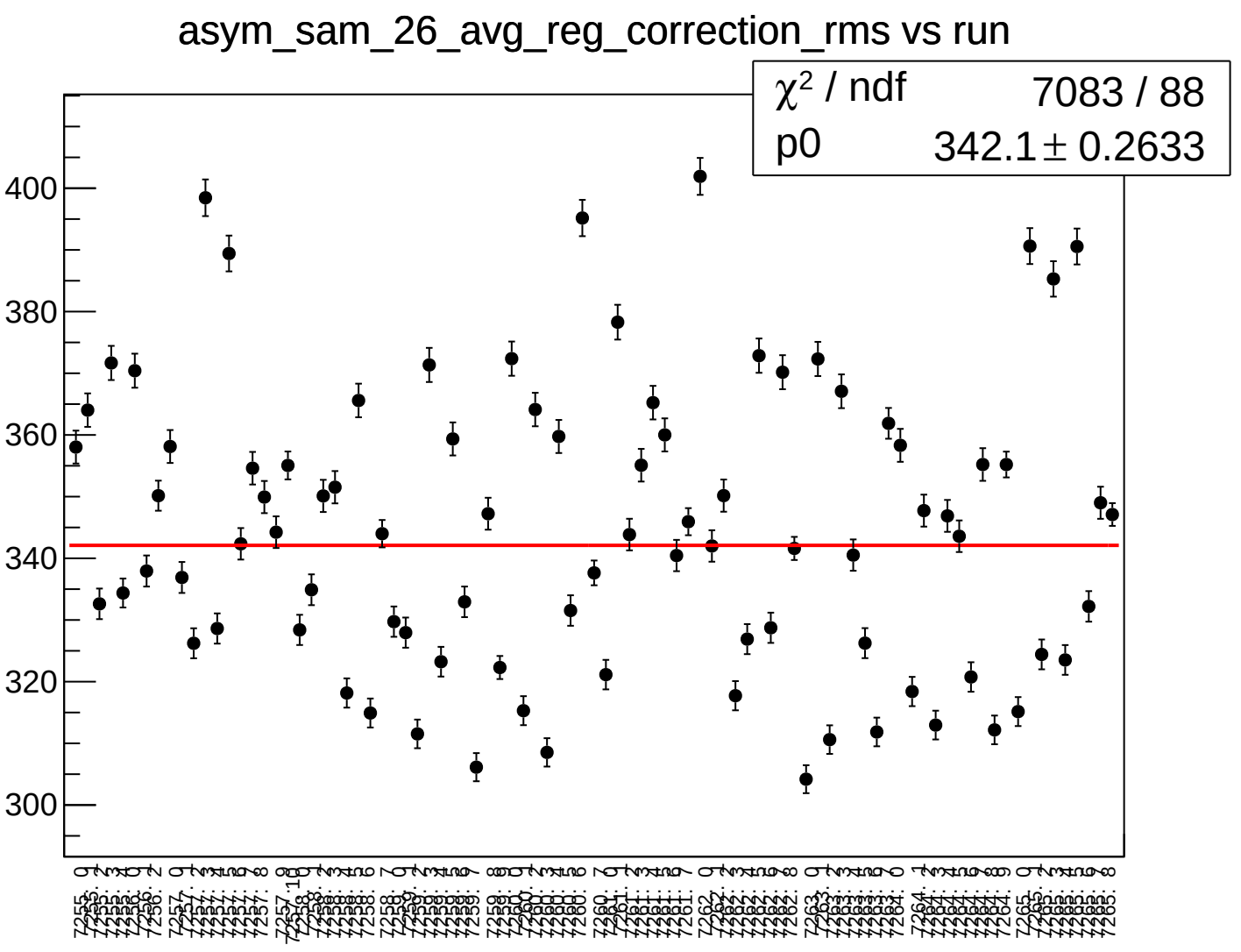

reg_asym_sam_26_avg_mean vs run
χ² / ndf 95.13 / 88
p0 −106.5 ± 67.28
pull
Entries 89
Mean −78.54
Std Dev 0

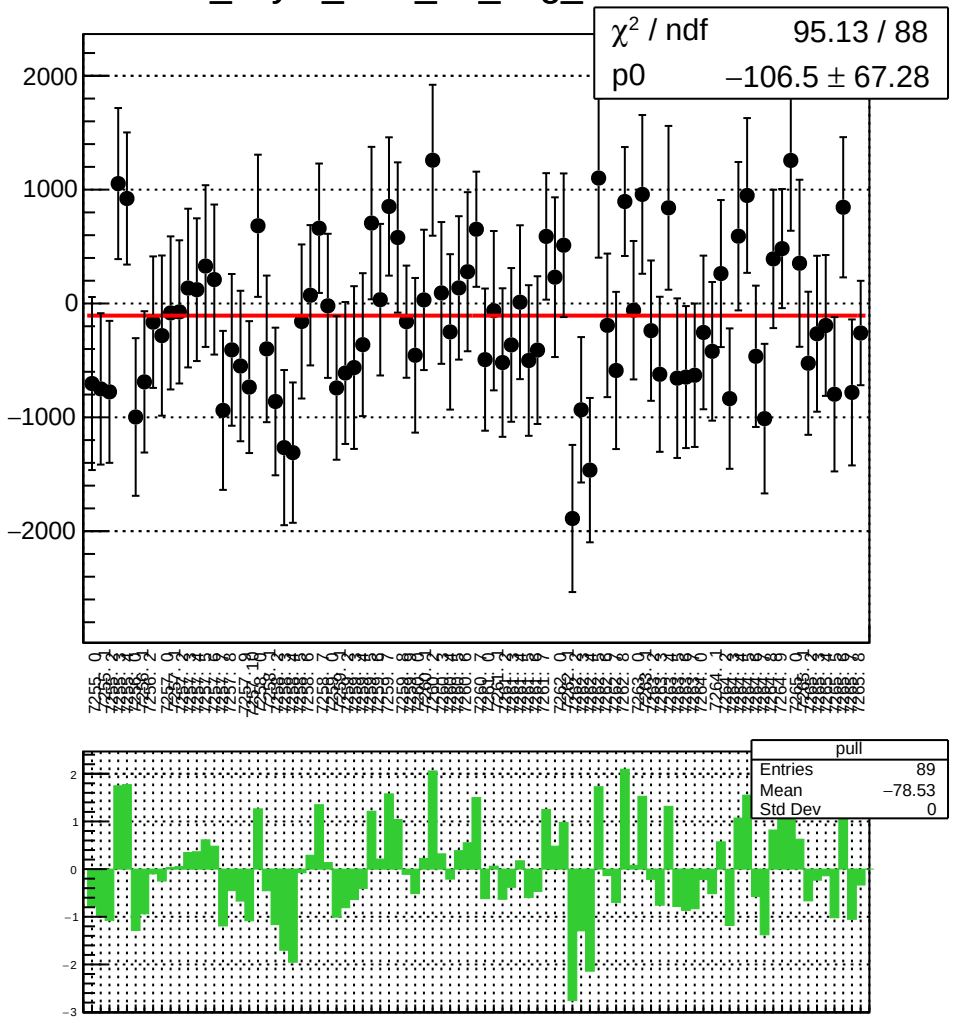

pull1D
Entries 89
Mean −0.01778
Std Dev 1.034

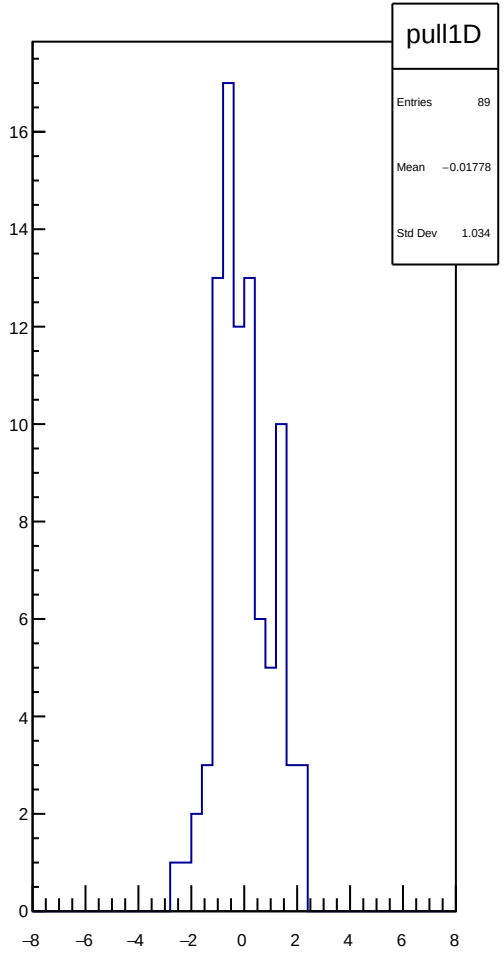

reg_asym_sam_26_avg_rms vs run
χ² / ndf 3935 / 88
p0 61.86 ± 0.04757
74
72
70
68
66
64
62
60
58
56

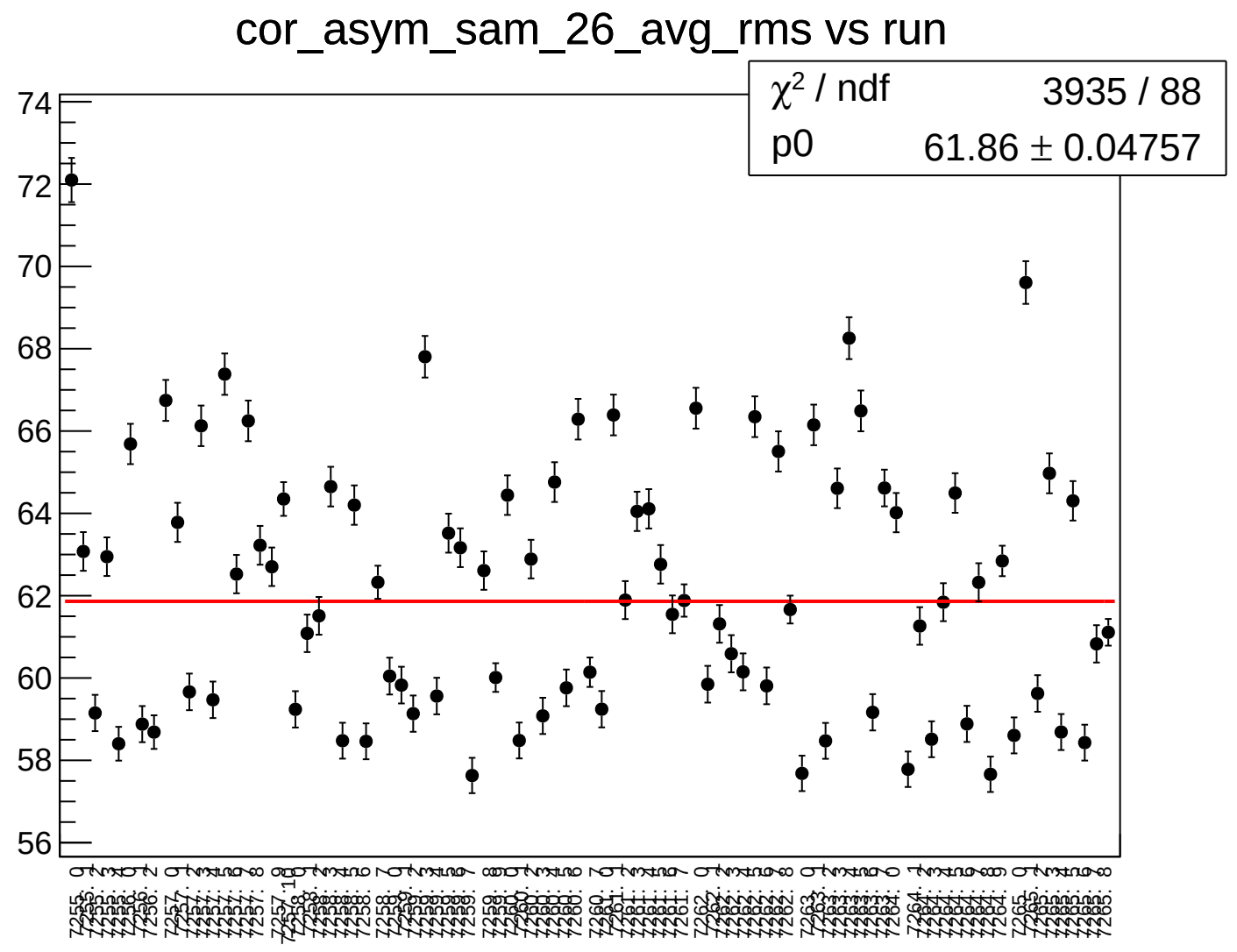

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 88.55 / 88
p0 −465.8 ± 372.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −724.2
Std Dev 0
3
2
1
0
−1
−2

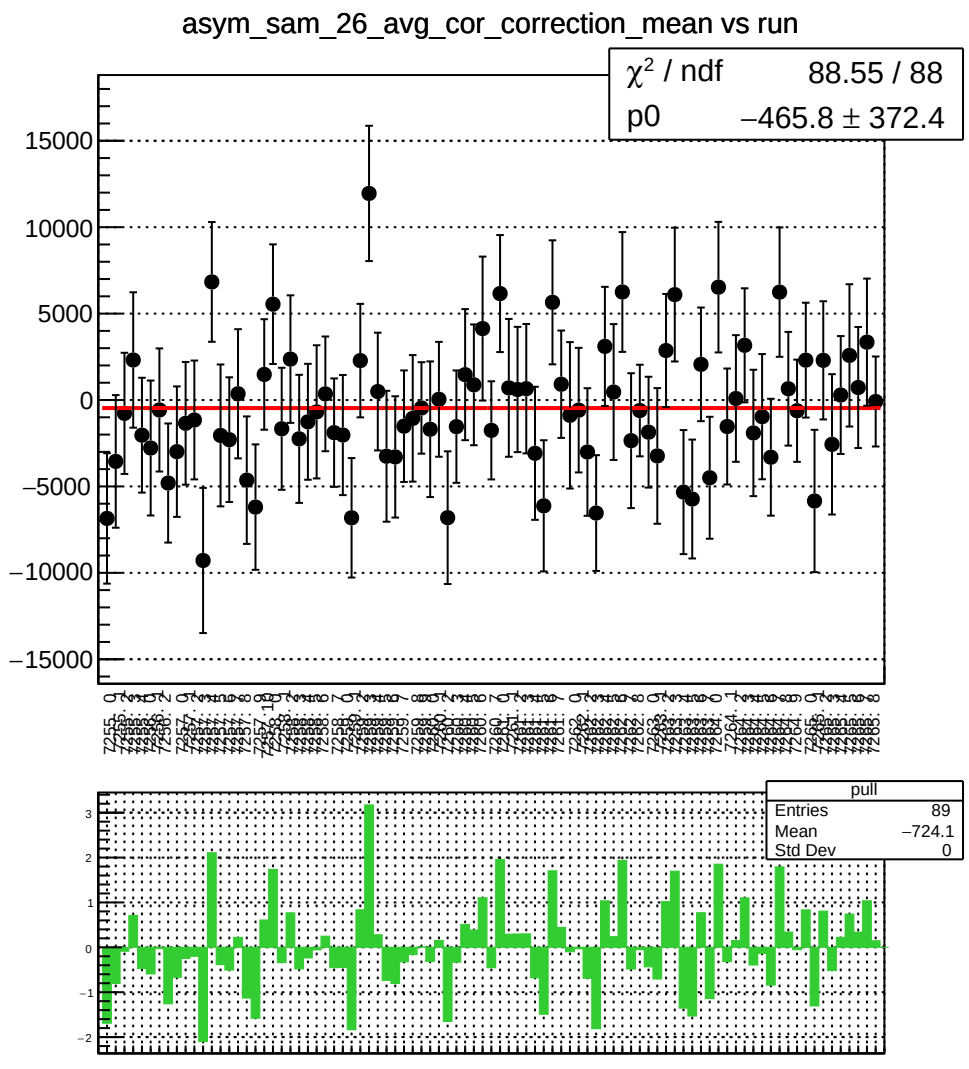

pull1D
Entries 89
Mean −0.006428
Std Dev 0.9975
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

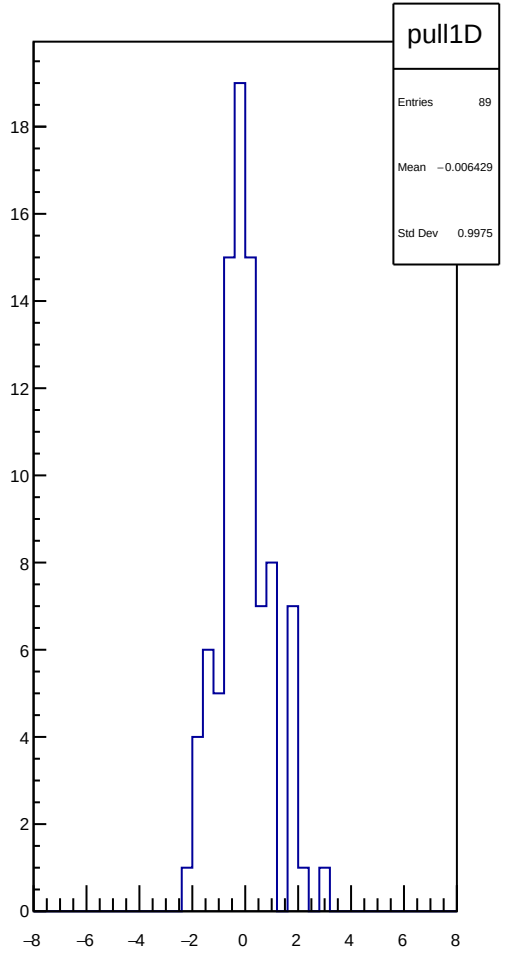

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 7083 / 88
p0 342.1 ± 0.2633
400
380
360
340
320
300

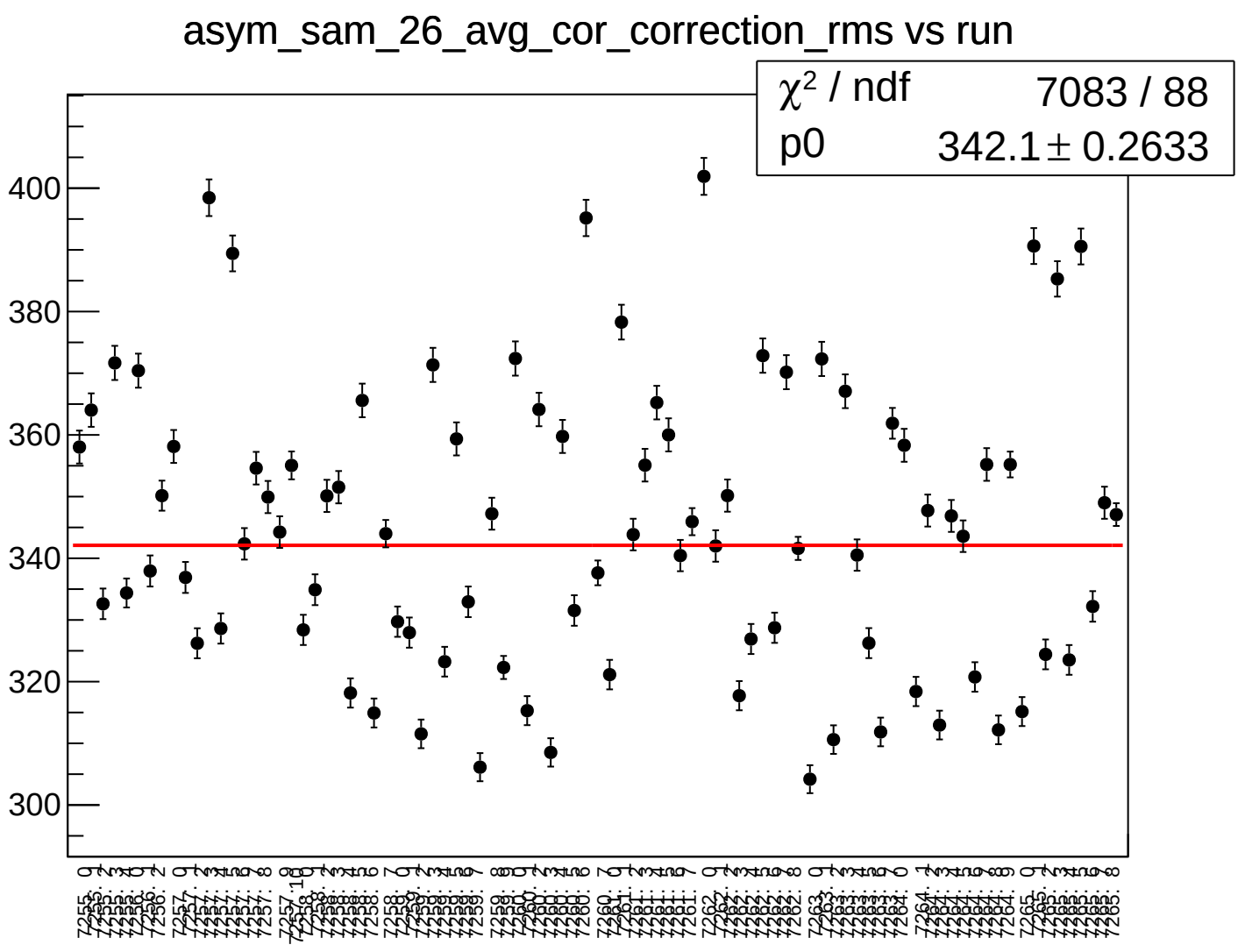

cor_asym_sam_26_avg_mean vs run
χ² / ndf 95.13 / 88
p0 −106.5 ± 67.28
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −78.53
Std Dev 0
2
1
0
−1
−2
−3

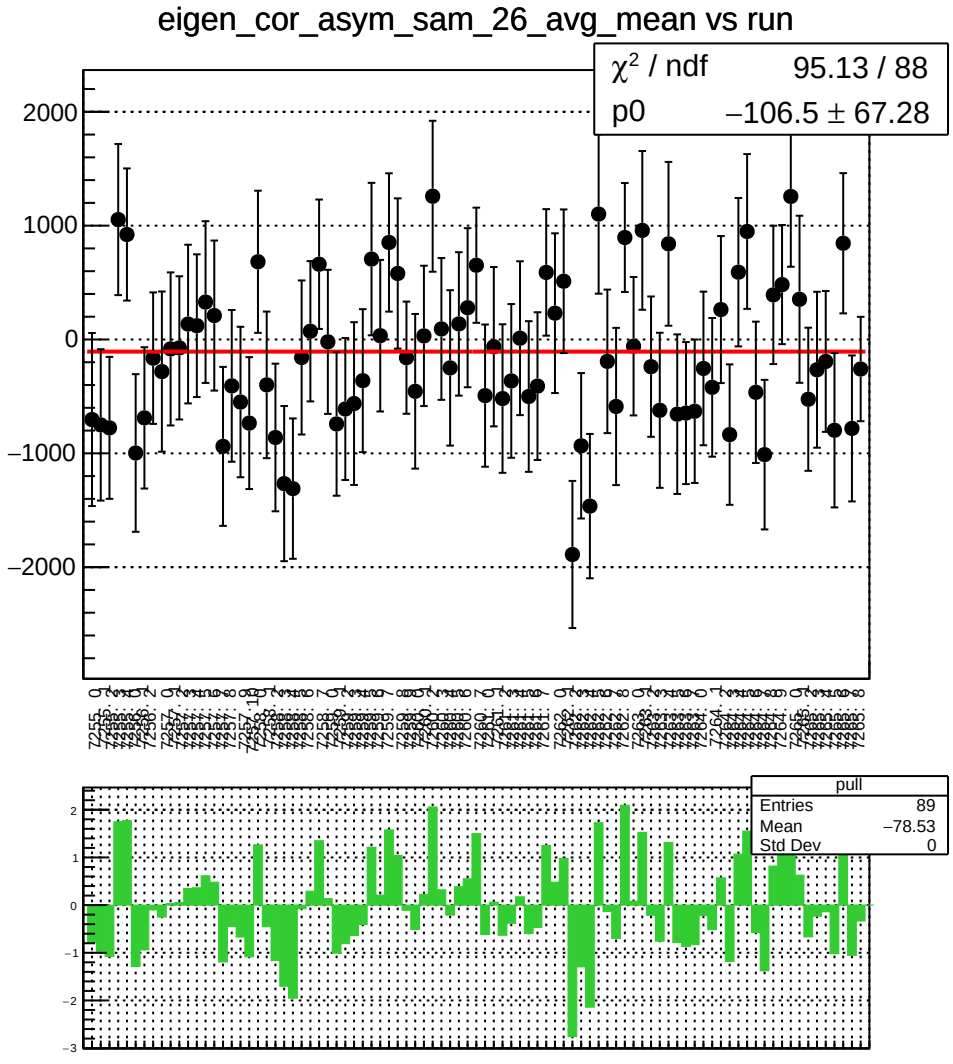

pull1D
Entries 89
Mean −0.01778
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

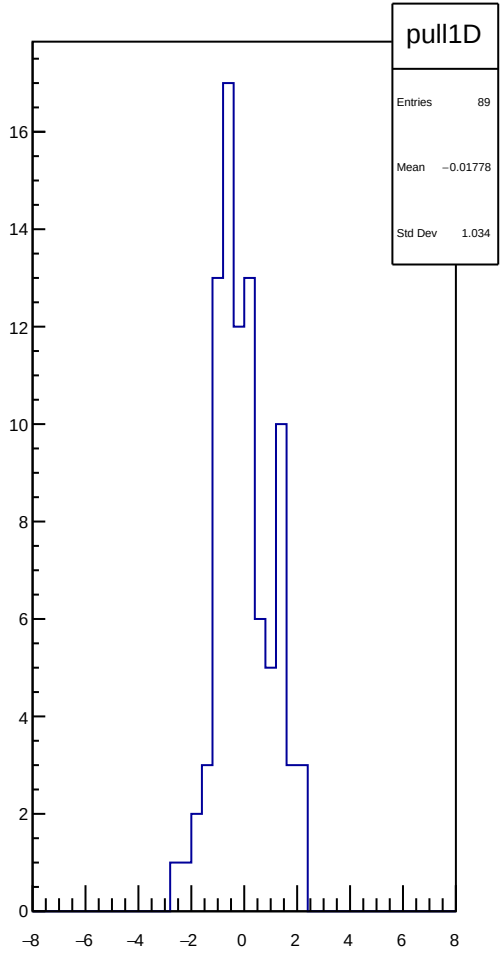

cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 3935 / 88
p0 61.86 ± 0.04757
74
72
70
68
66
64
62
60
58
56

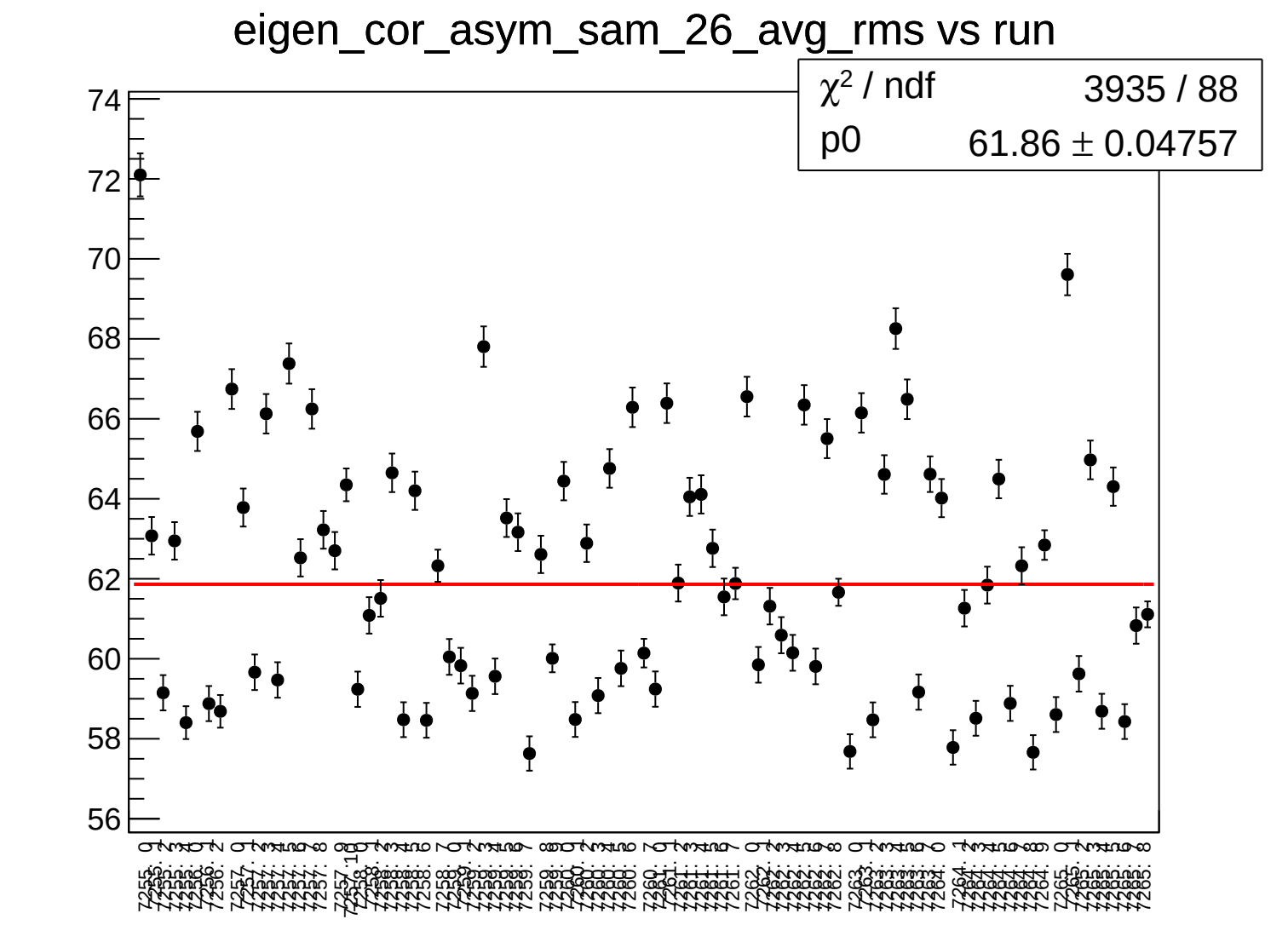

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 88.55 / 88
p0 −465.8 ± 372.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −724.1
Std Dev 0
3
2
1
0
−1
−2

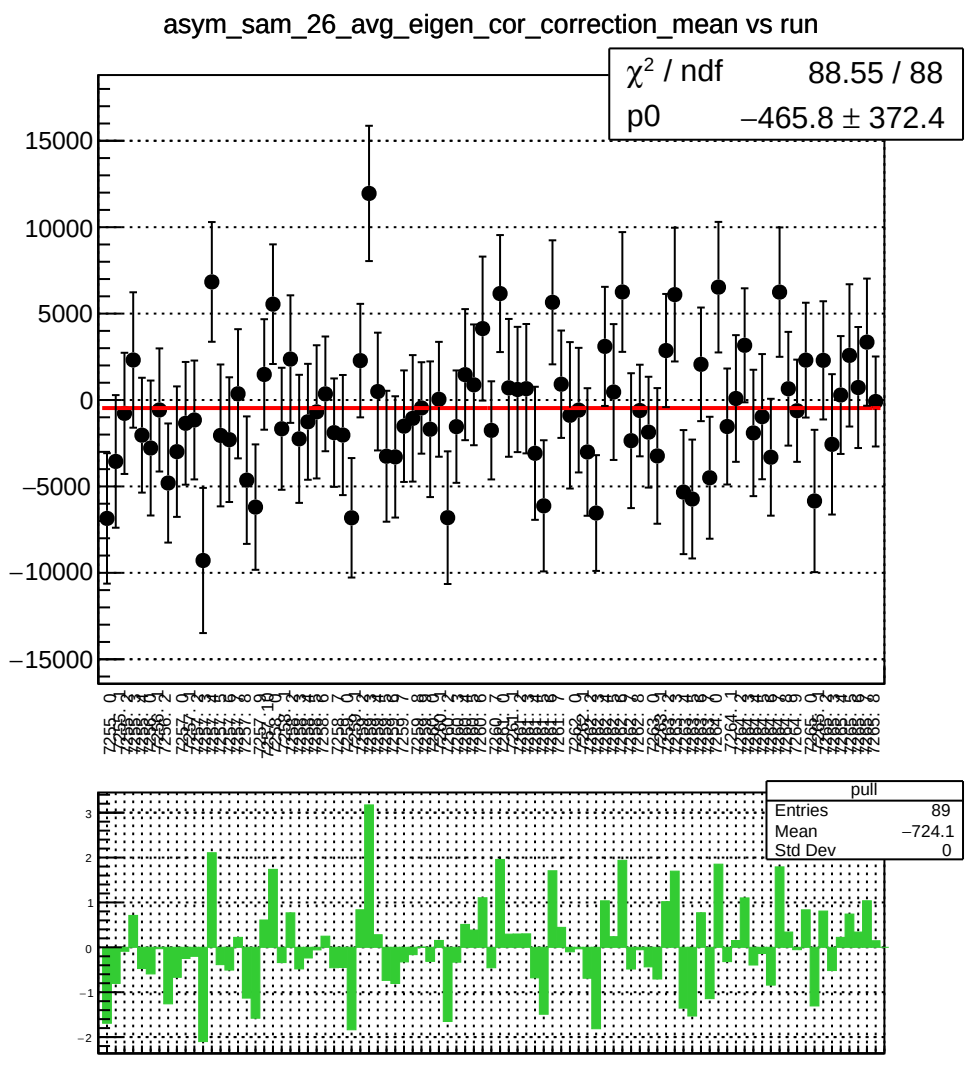

pull1D
Entries 89
Mean −0.006429
Std Dev 0.9975
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

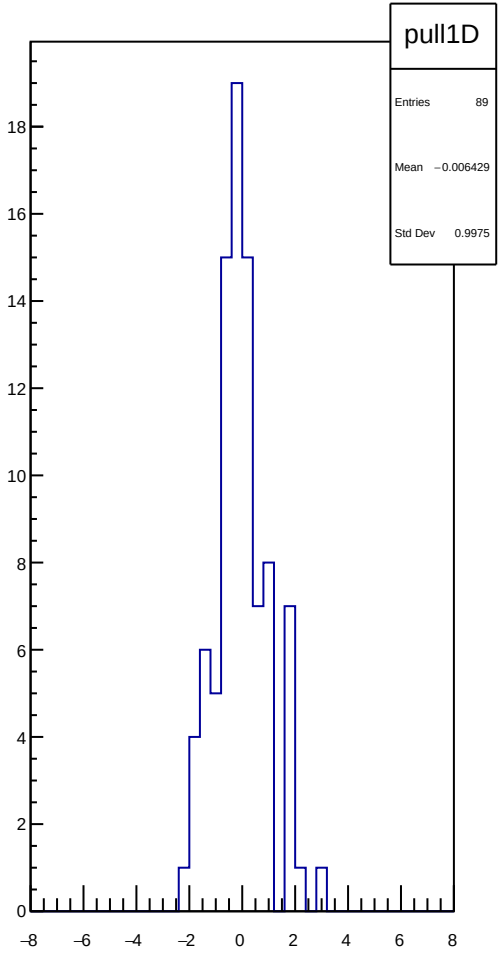

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 7083 / 88
p0 342.1 ± 0.2633
400
380
360
340
320
300

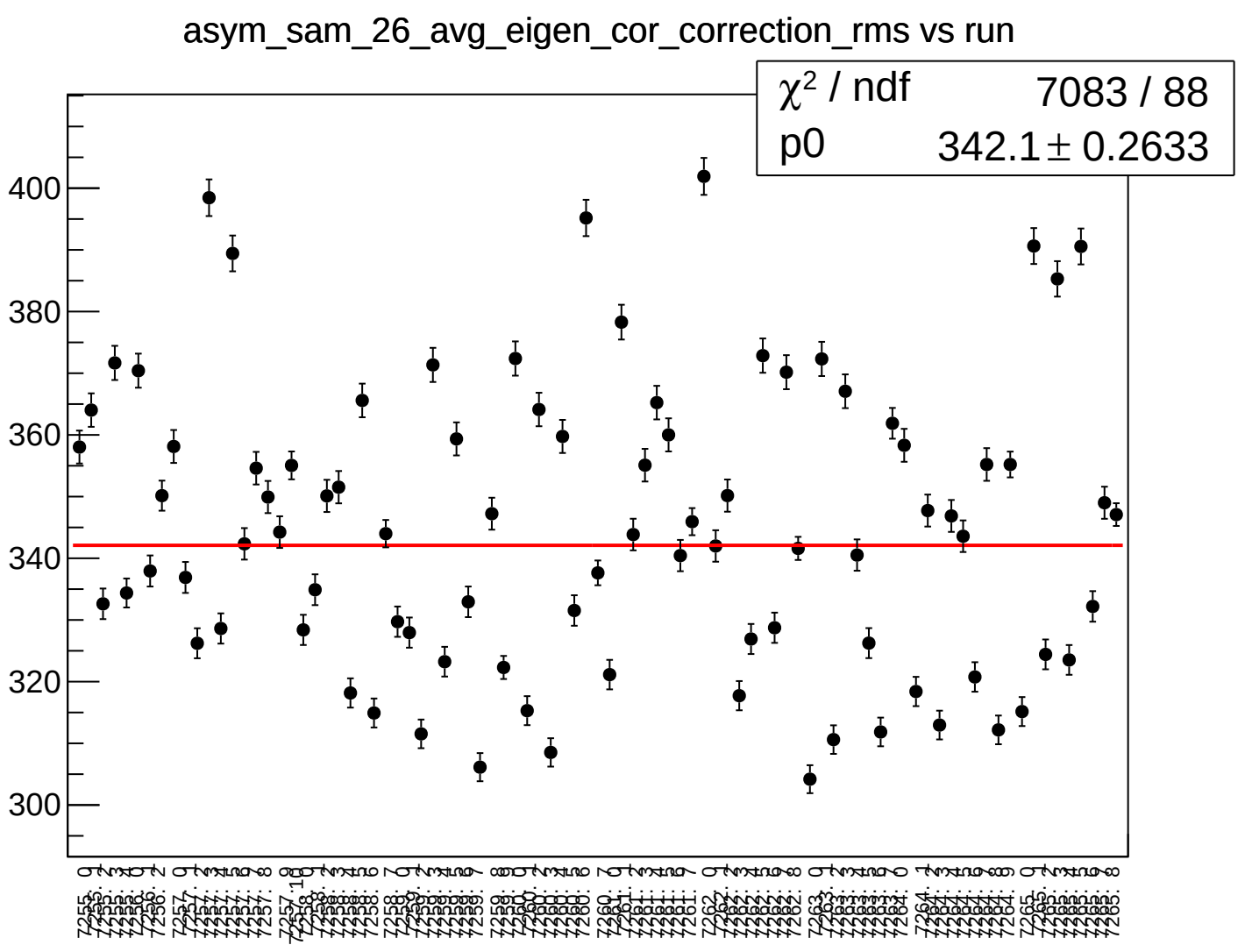

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 95.13 / 88
p0 −106.5 ± 67.28
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −78.53
Std Dev 0
2
1
0
−1
−2
−3

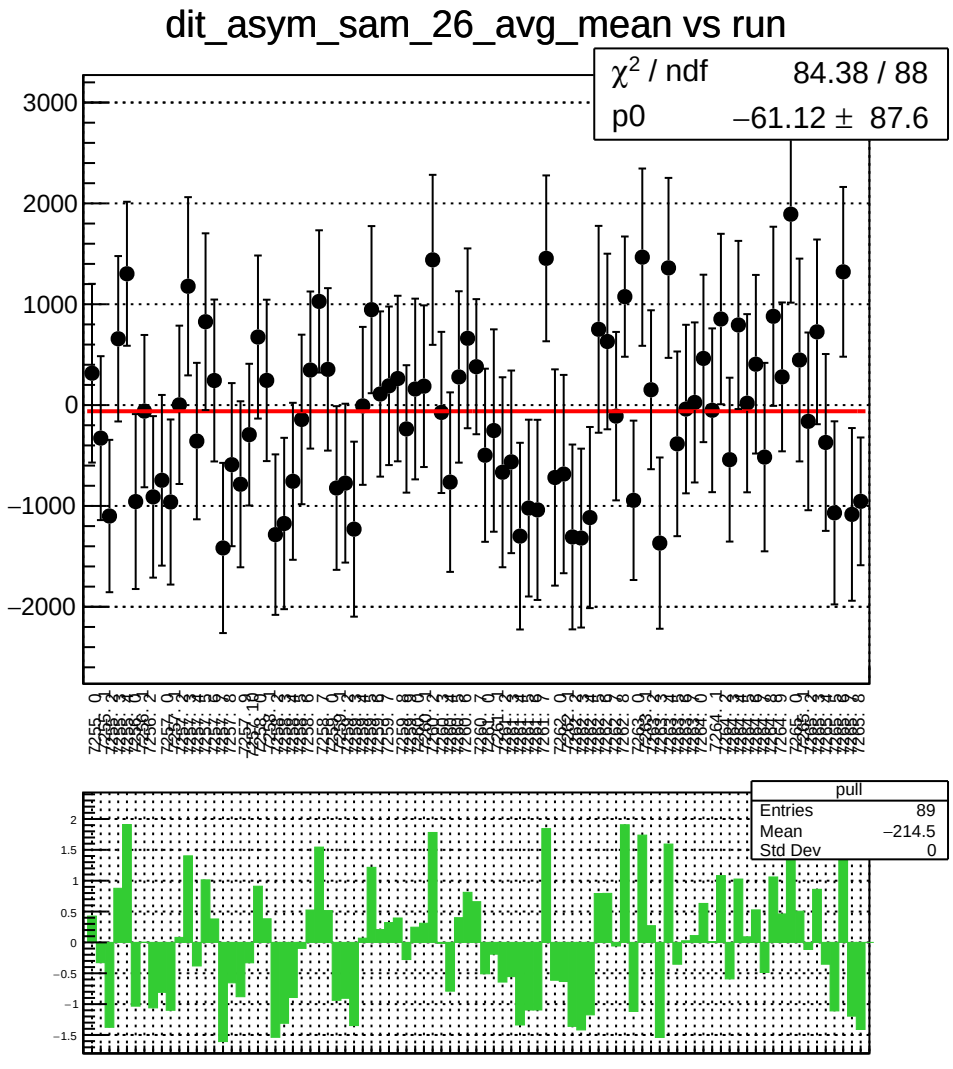

pull1D
Entries 89
Mean −0.01778
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

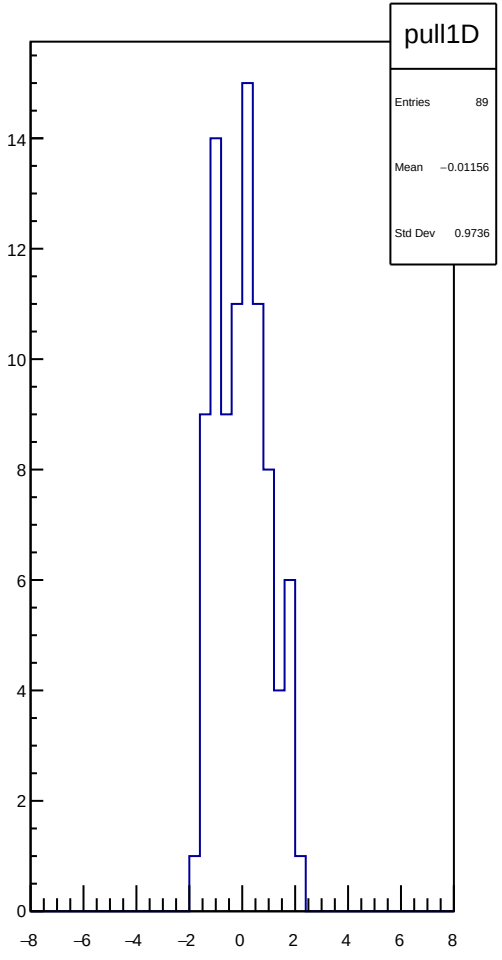

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 3935 / 88
p0 61.86 ± 0.04757
74
72
70
68
66
64
62
60
58
56

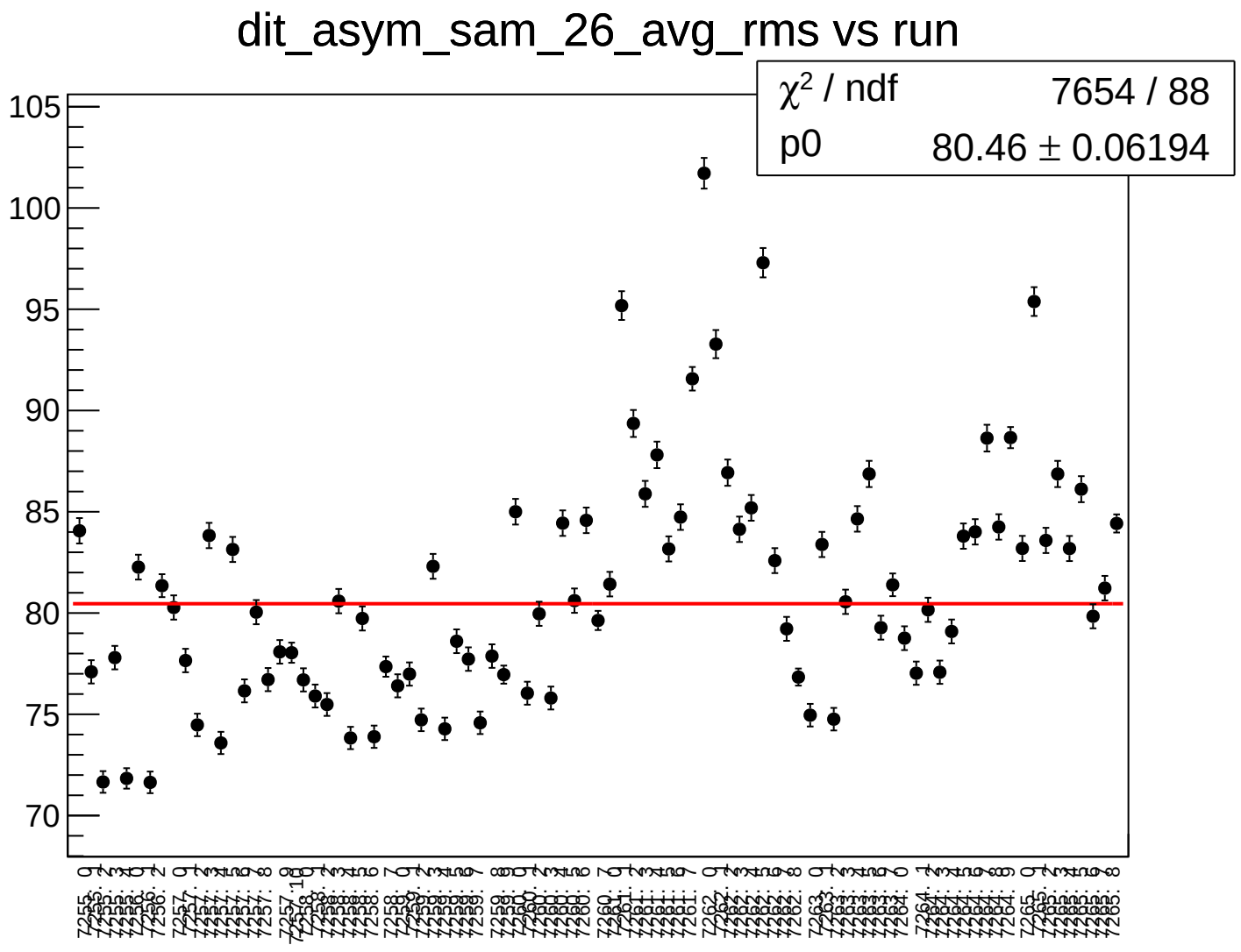

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.55 / 88
p0 −465.8 ± 372.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −724.1
Std Dev 0
3
2
1
0
−1
−2

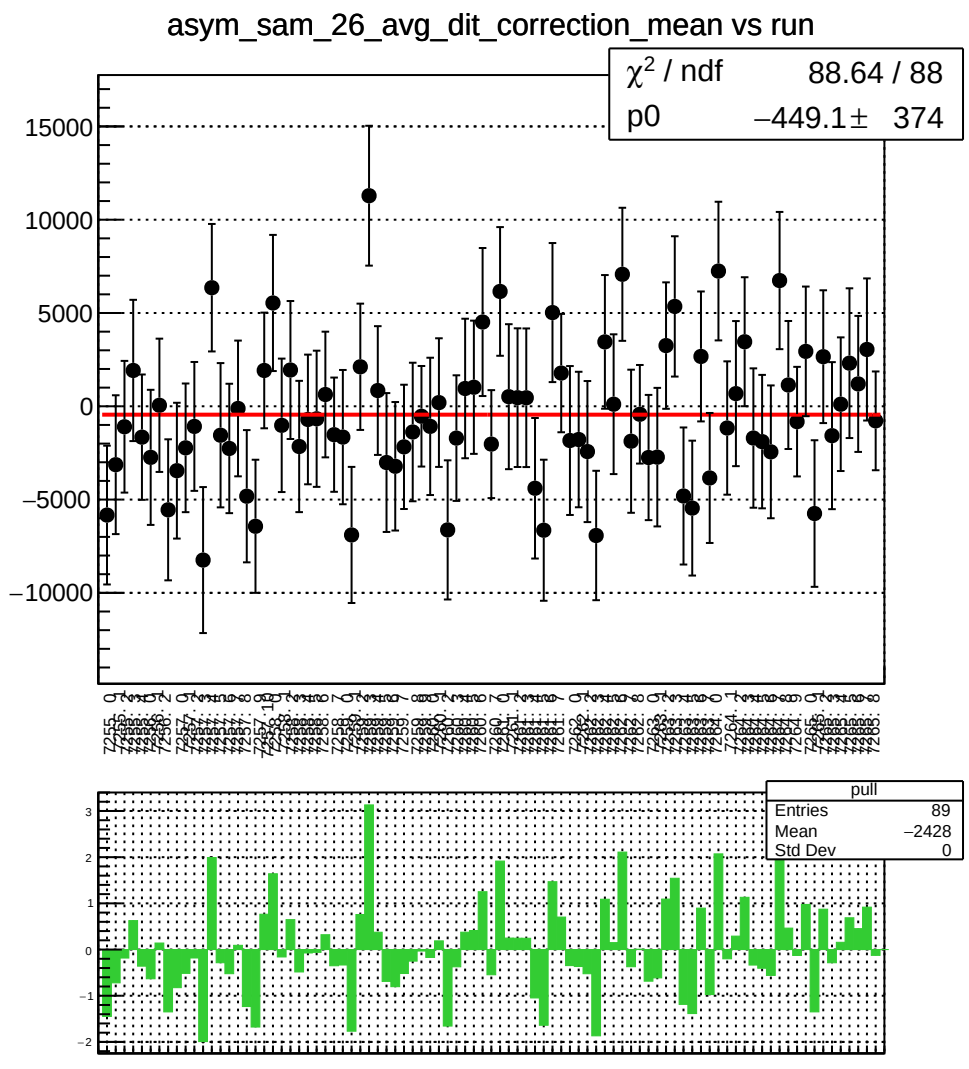

pull1D
Entries 89
Mean −0.006429
Std Dev 0.9975
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

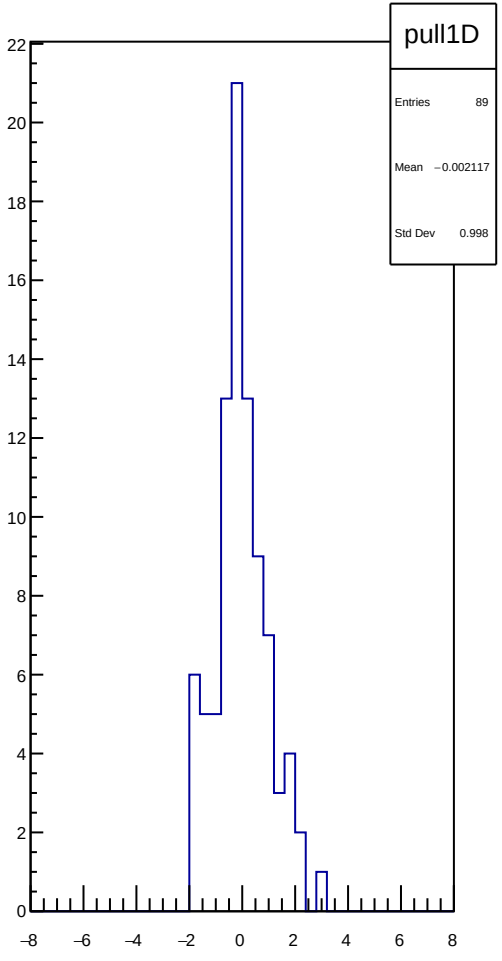

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 7083 / 88
p0 342.1 ± 0.2633
400
380
360
340
320
300

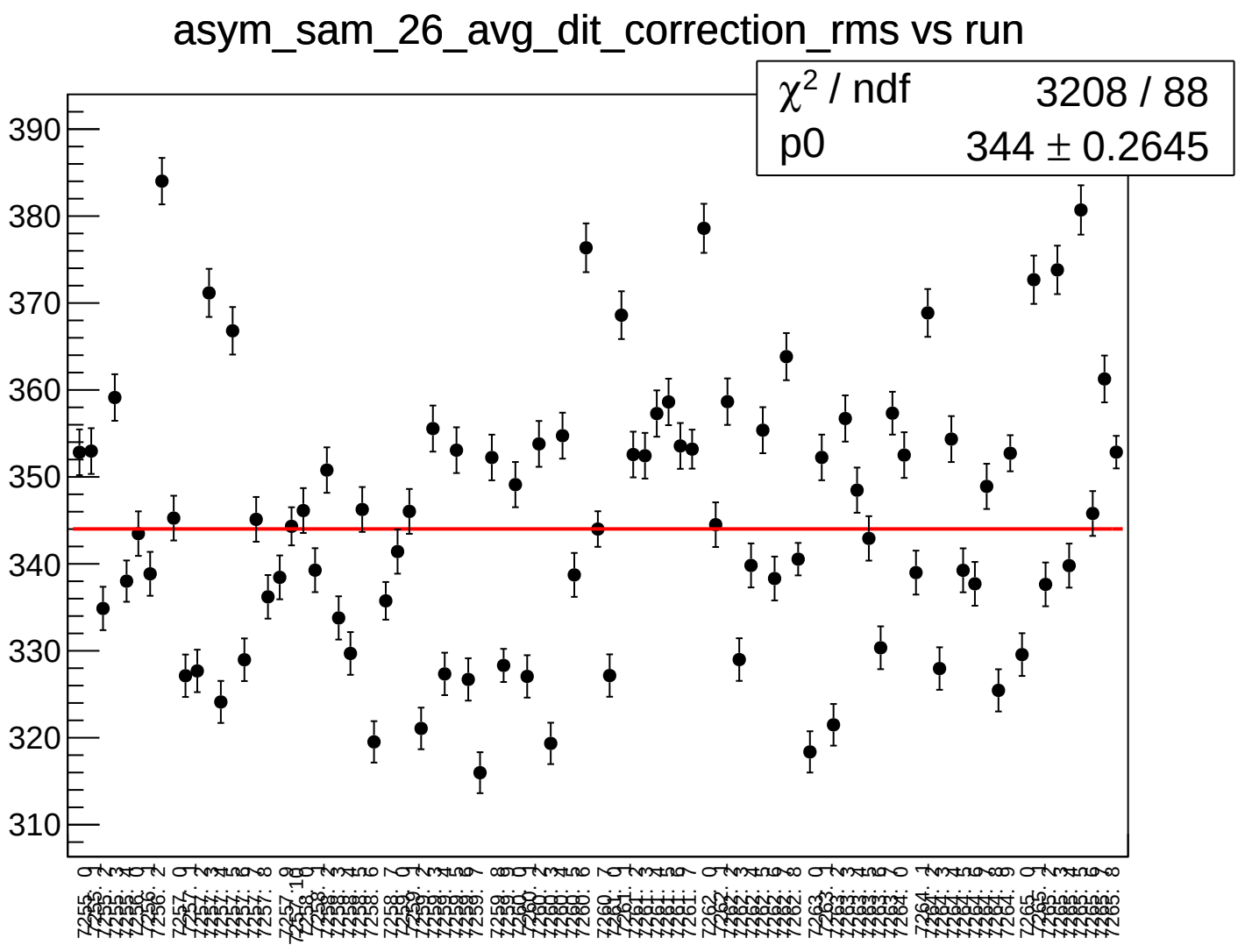

dit_asym_sam_26_avg_mean vs run
χ² / ndf 84.38 / 88
p0 −61.12 ± 87.6
pull
Entries 89
Mean −214.5
Std Dev 0

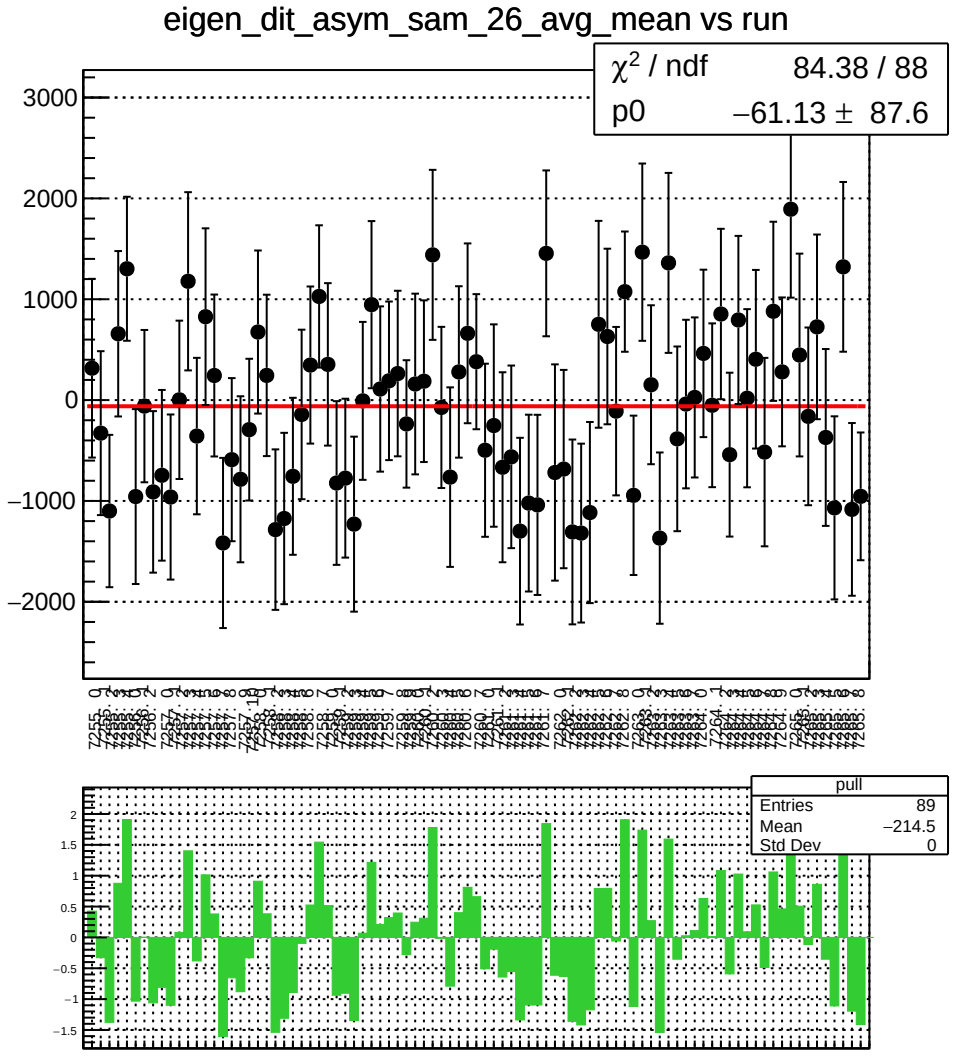

pull1D
Entries 89
Mean −0.01156
Std Dev 0.9736

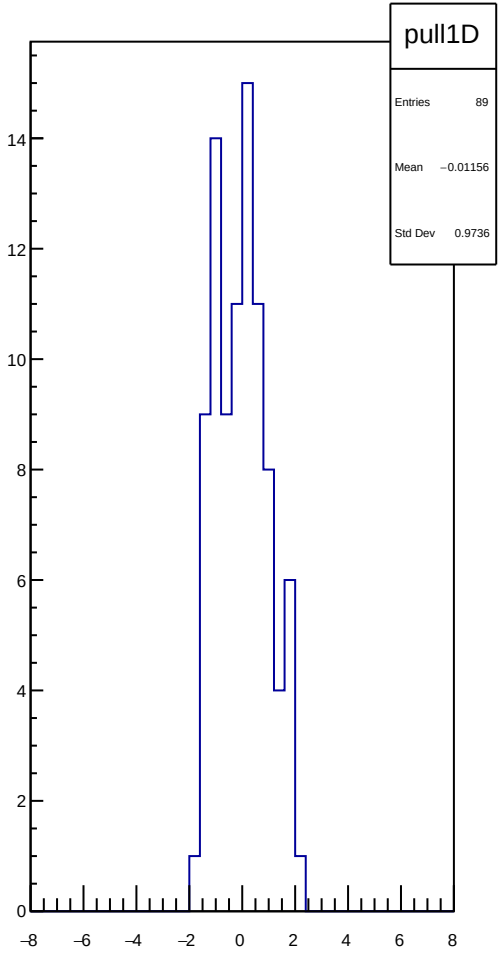

dit_asym_sam_26_avg_rms vs run
χ² / ndf 7654 / 88
p0 80.46 ± 0.06194
105
100
95
90
85
80
75
70

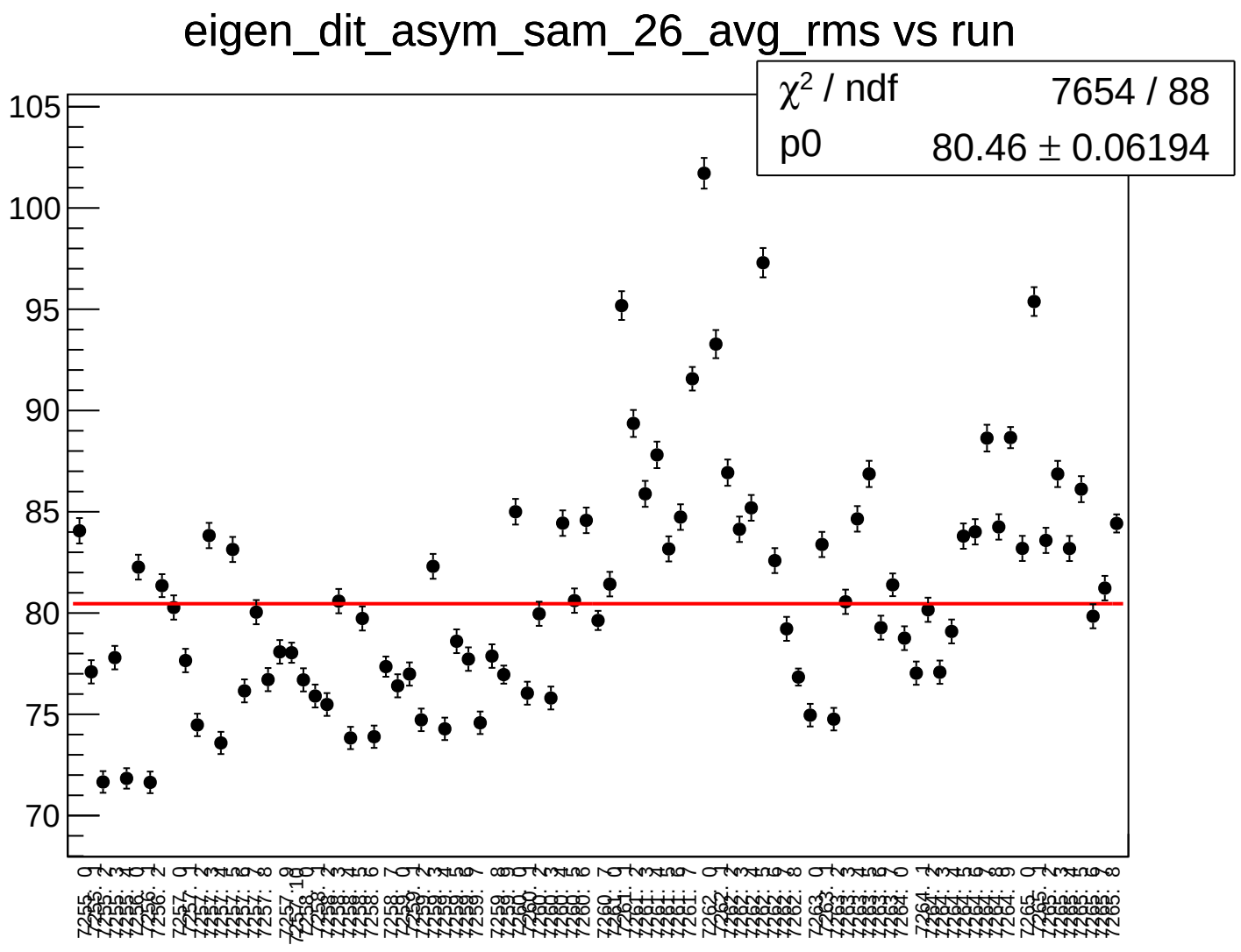

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 88.64 / 88
p0 −449.1± 374
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −2428
Std Dev 0
3
2
1
0
−1
−2

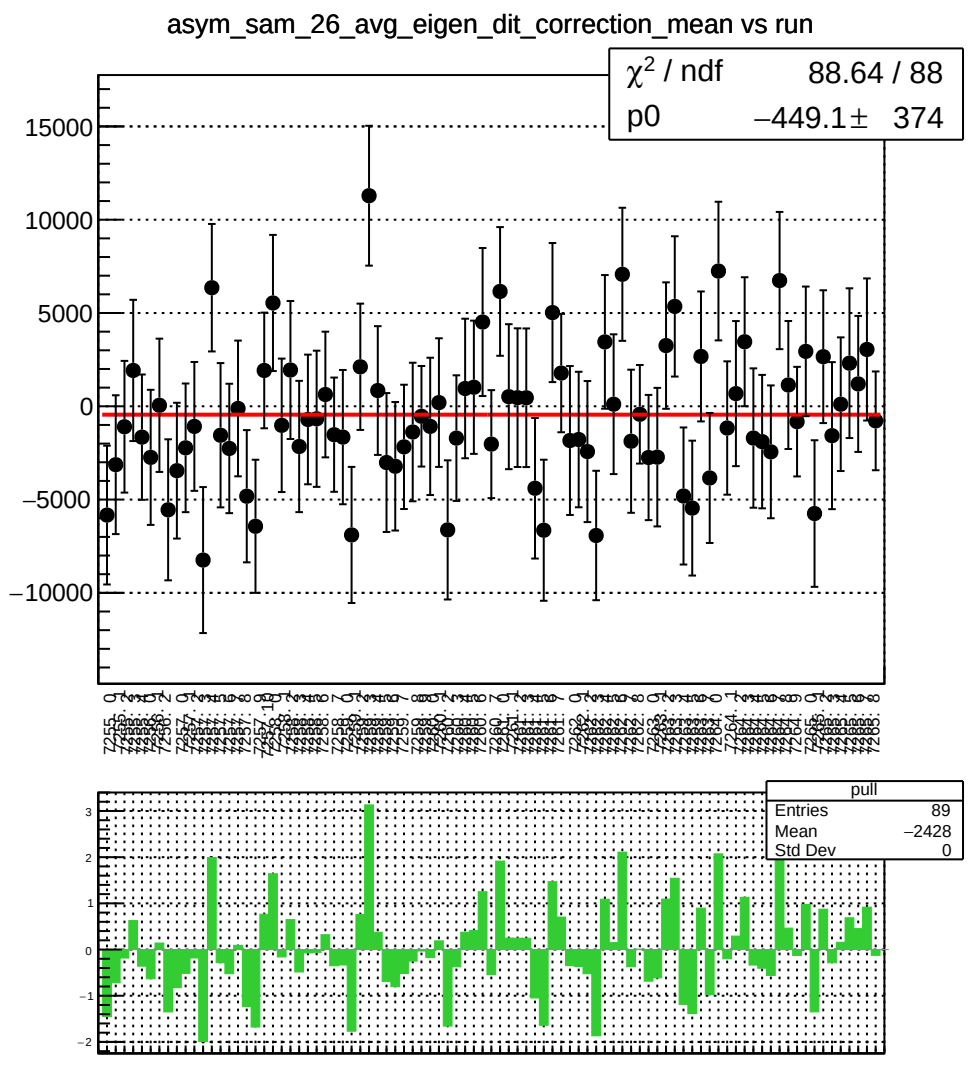

pull1D
Entries 89
Mean −0.002117
Std Dev 0.998
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

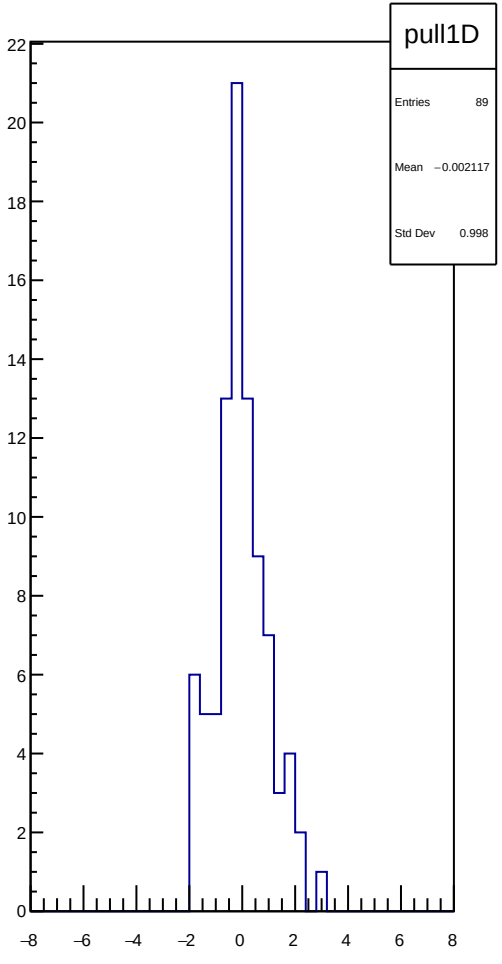

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 3208 / 88
p0 344 ± 0.2645
390
380
370
360
350
340
330
320
310

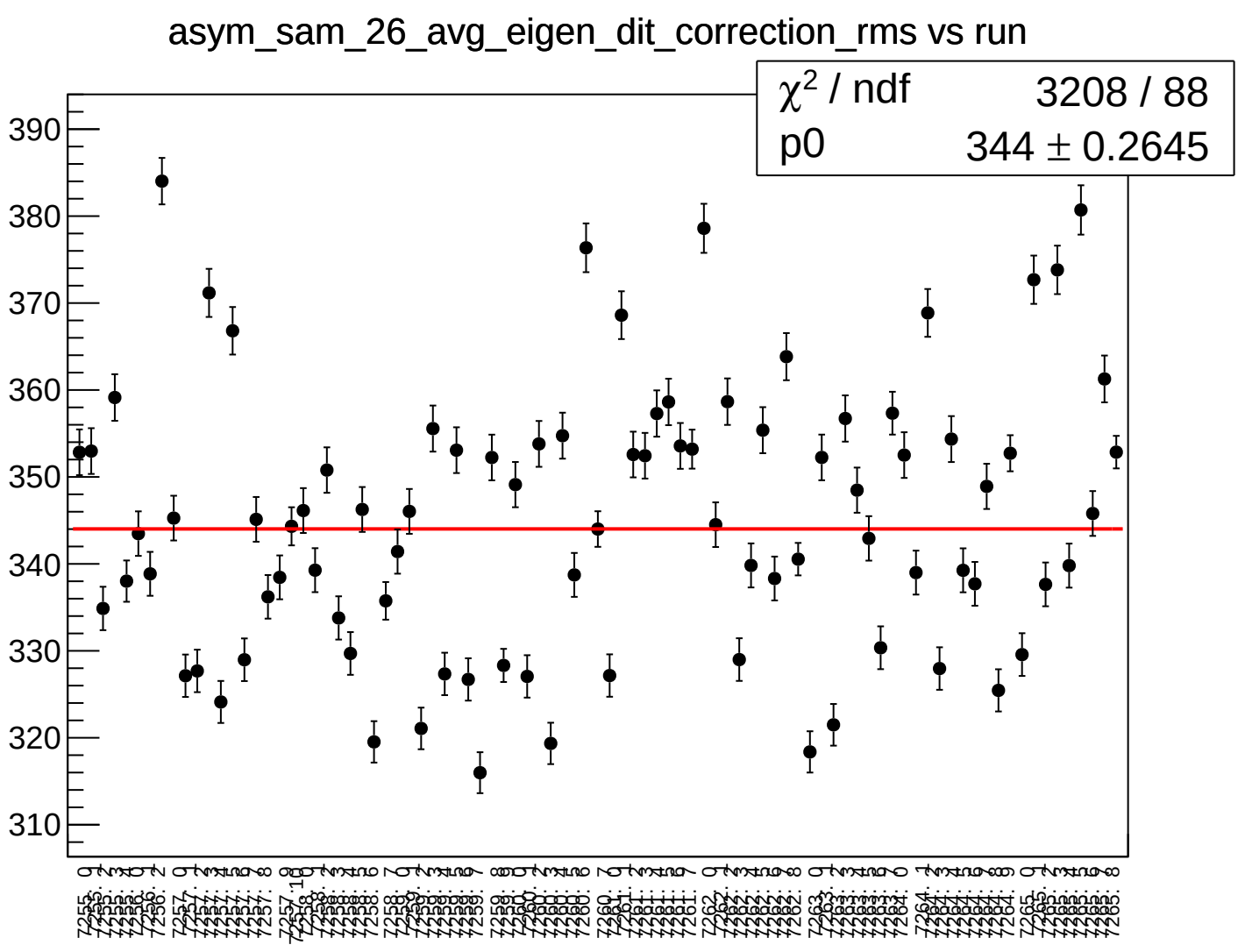

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 84.38 / 88
p0 −61.13 ± 87.6
pull
Entries 89
Mean −214.5
Std Dev 0

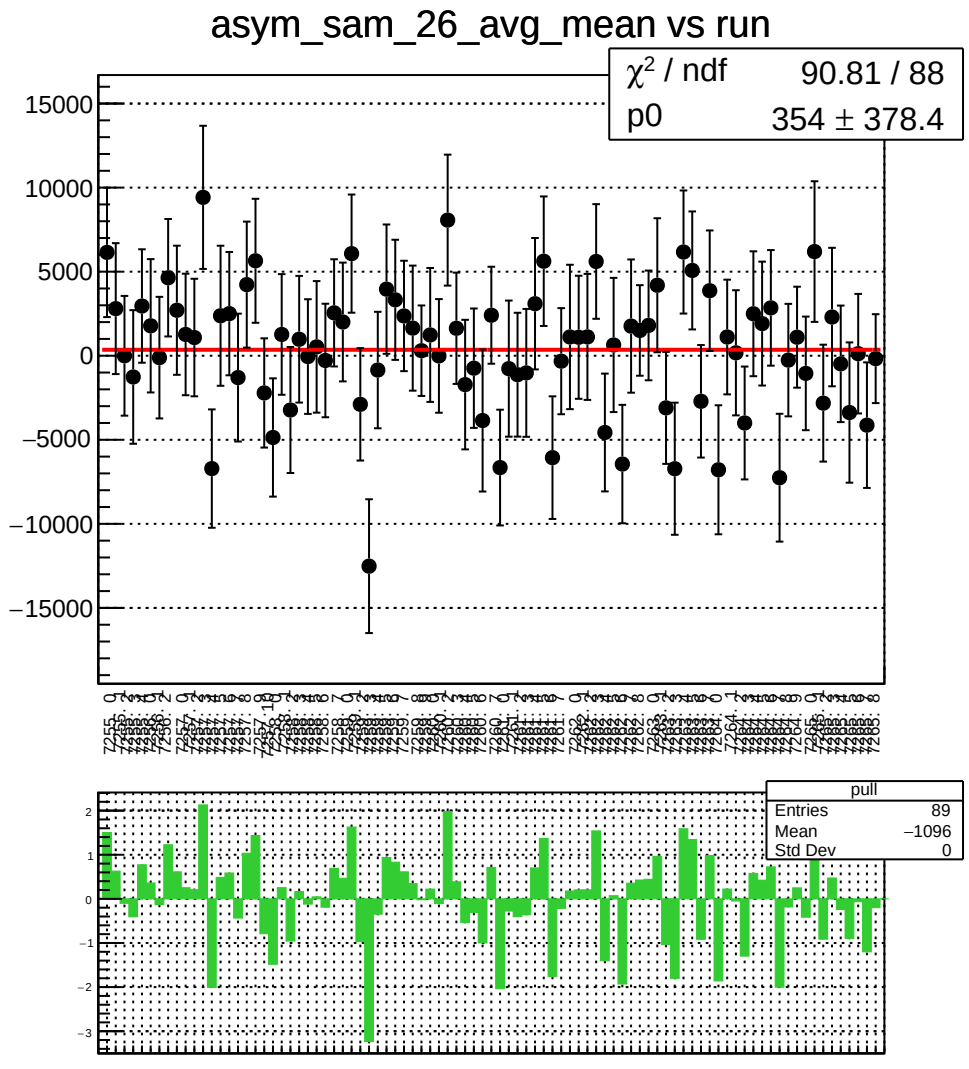

pull1D
Entries 89
Mean −0.01156
Std Dev 0.9736

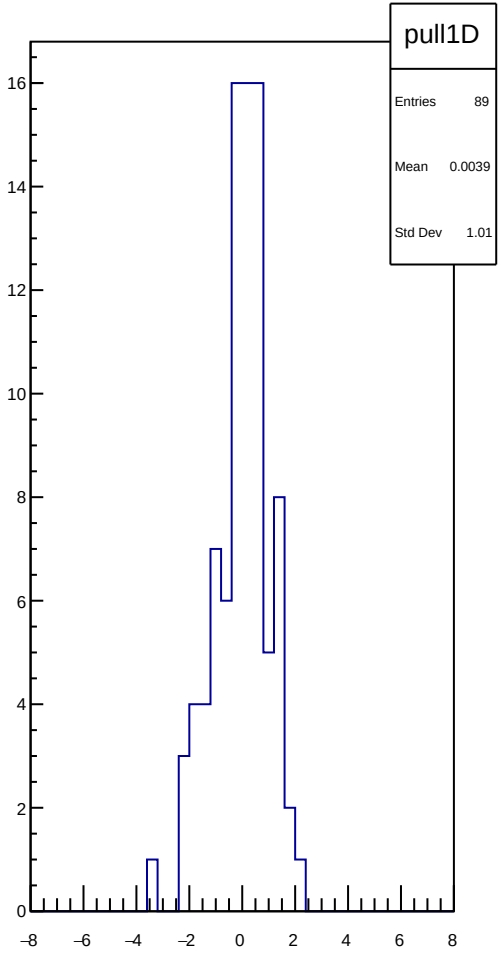

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 7654 / 88
p0 80.46 ± 0.06194
105
100
95
90
85
80
75
70

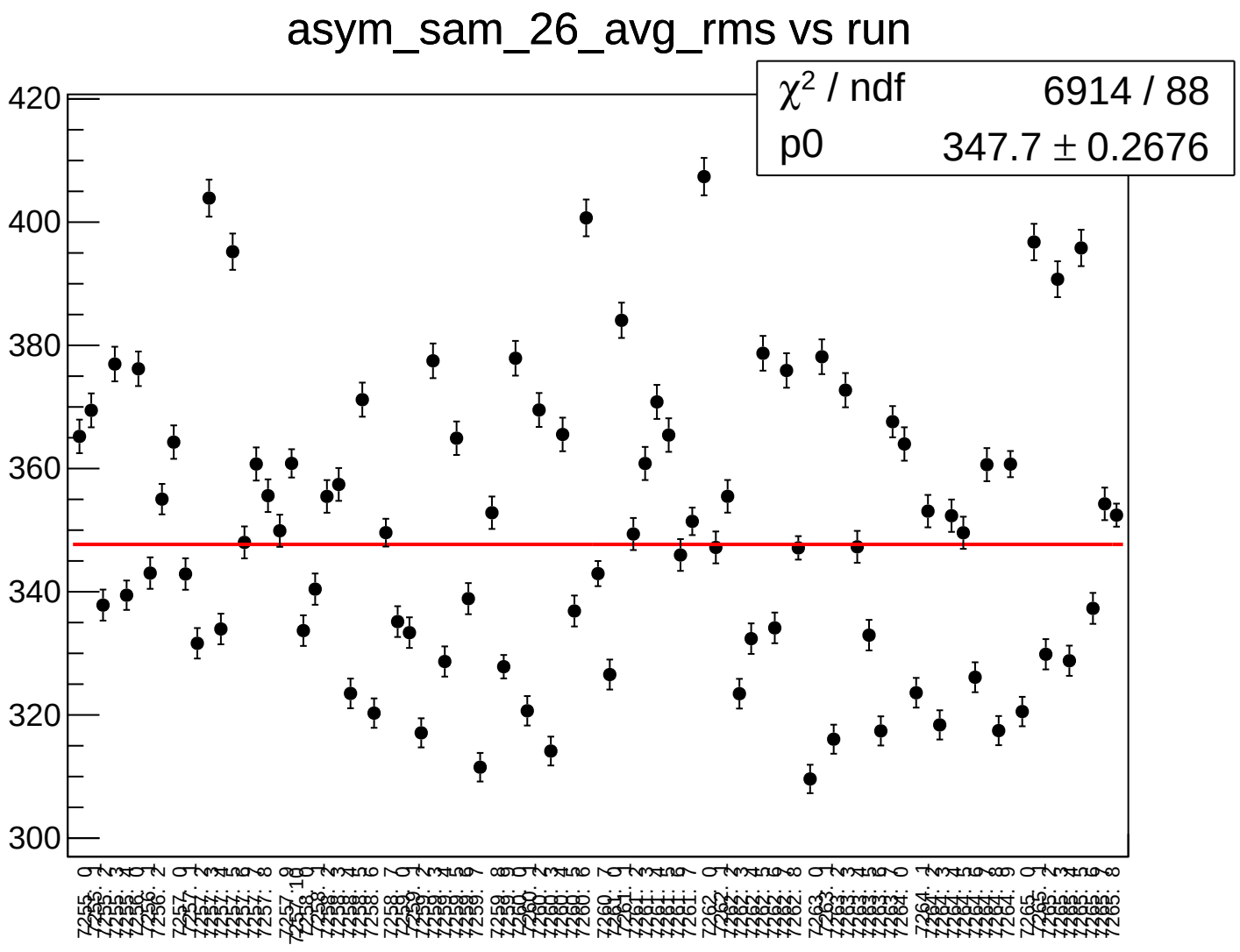

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.64 / 88
p0 −449.1± 374
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −2428
Std Dev 0
3
2
1
0
−1
−2

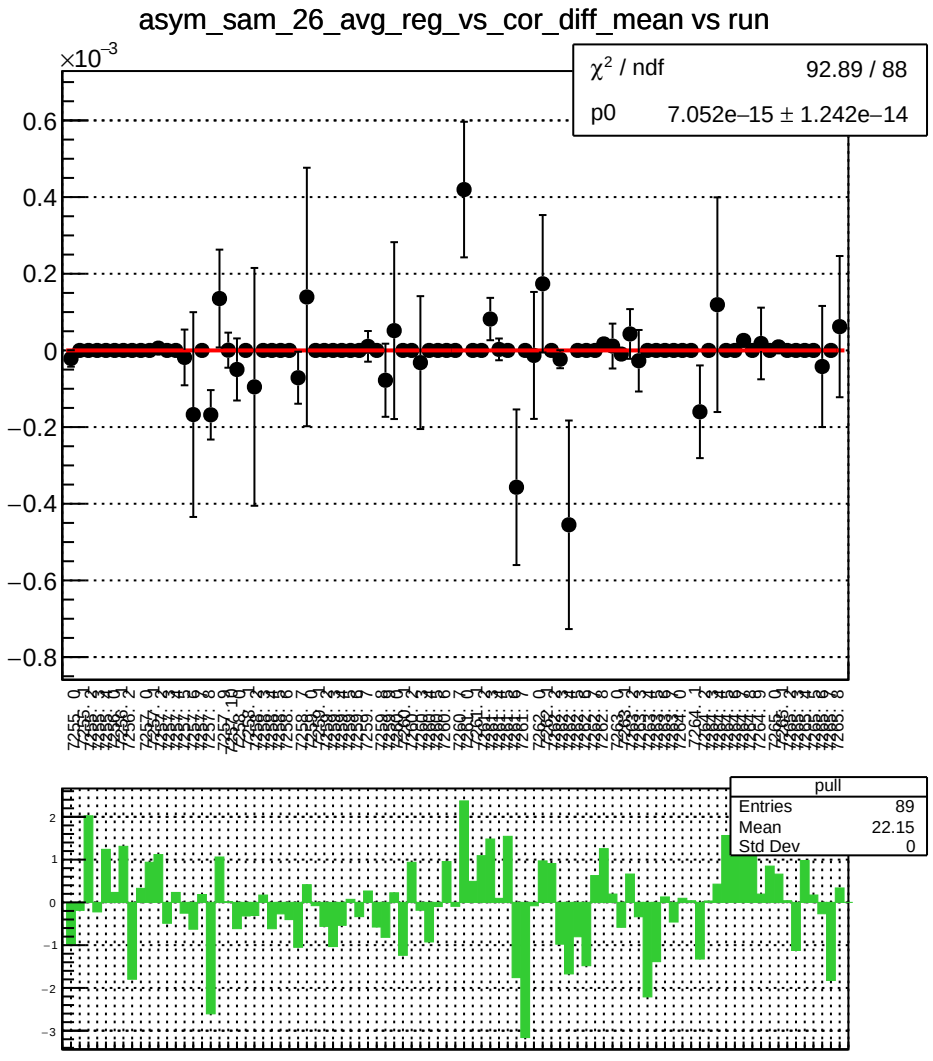

pull1D
Entries 89
Mean −0.002117
Std Dev 0.998
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

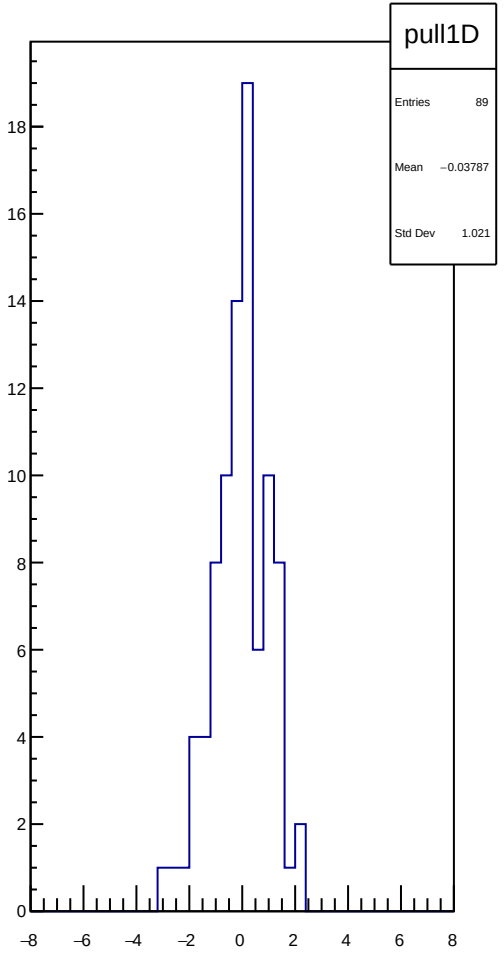

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 3208 / 88
p0 344 ± 0.2645
390
380
370
360
350
340
330
320
310

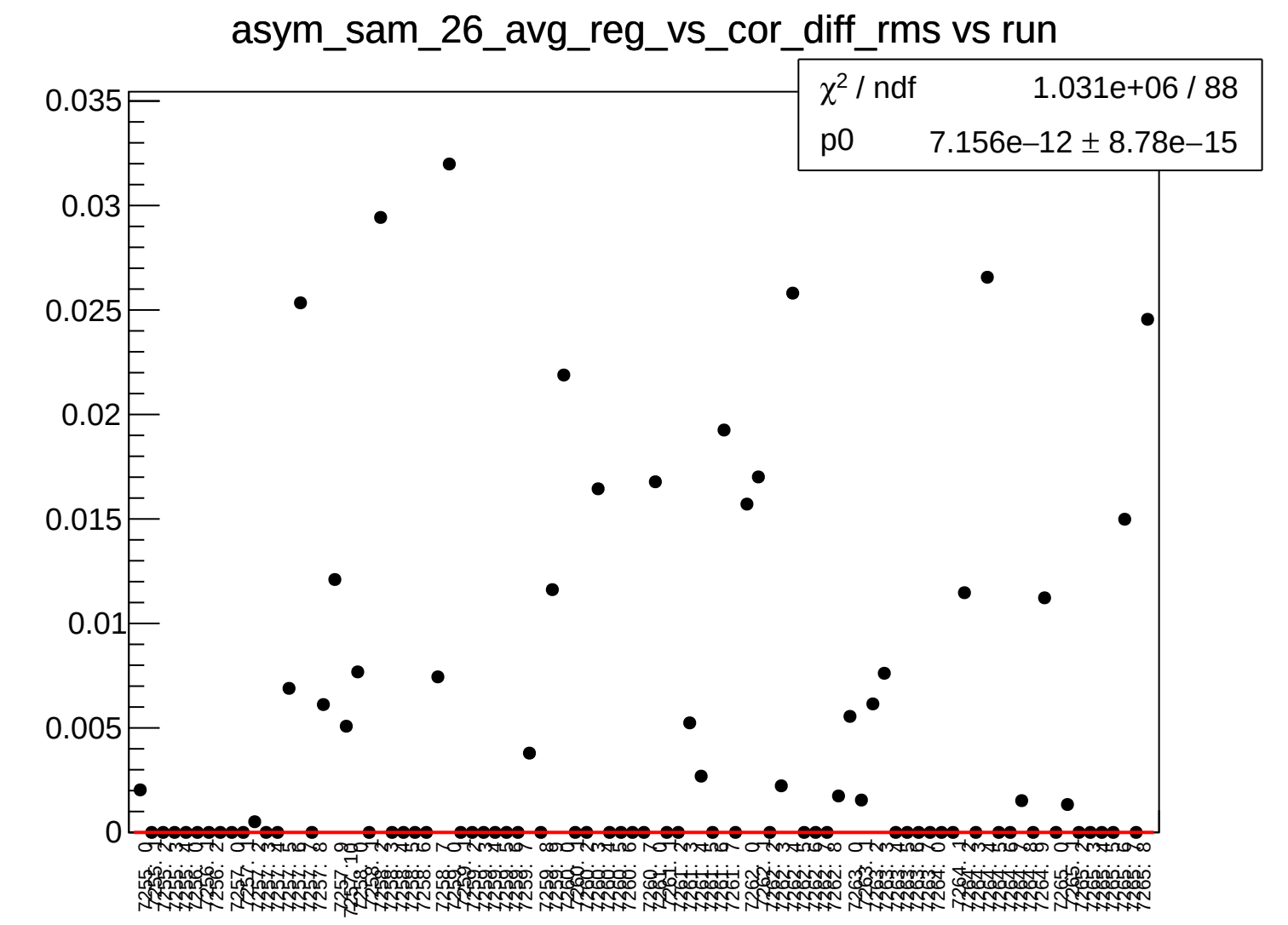

asym_sam_26_avg_mean vs run
χ² / ndf 90.81 / 88
p0 354 ± 378.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −1096
Std Dev 0
2
1
0
−1
−2
−3

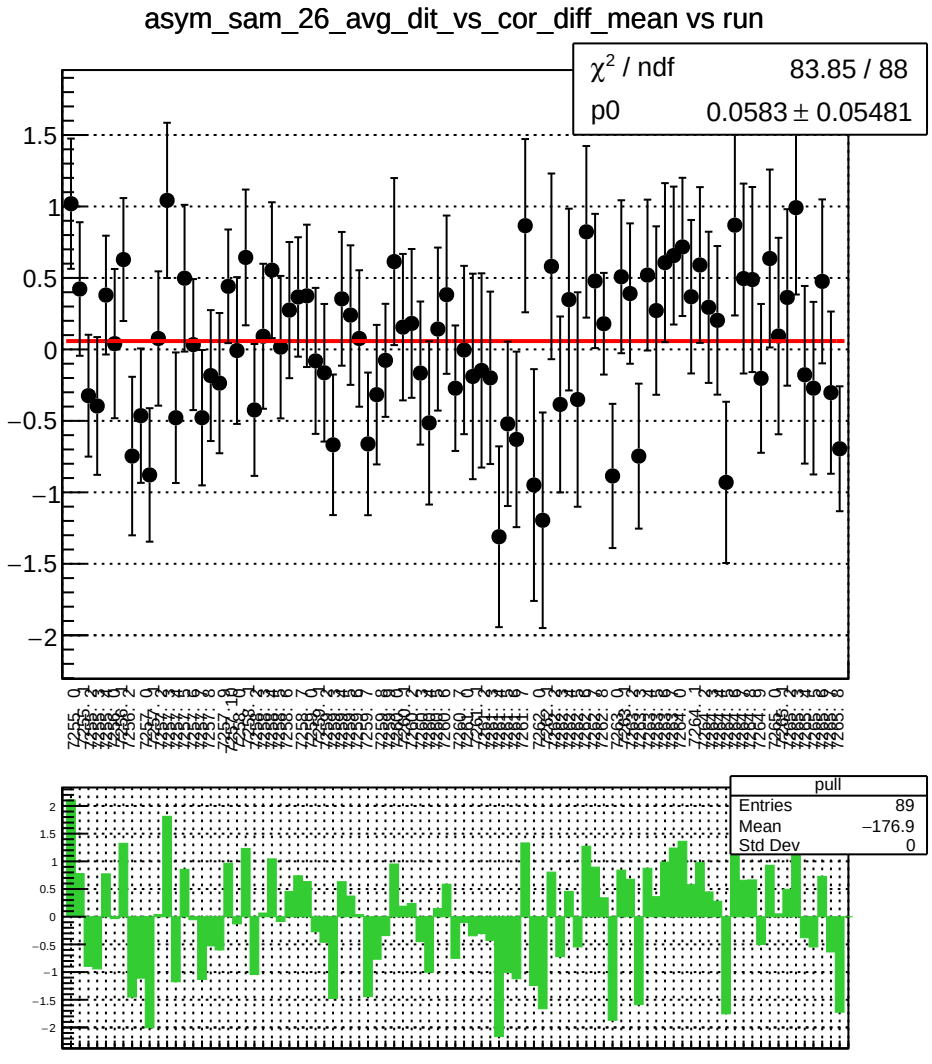

pull1D
Entries 89
Mean 0.0039
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

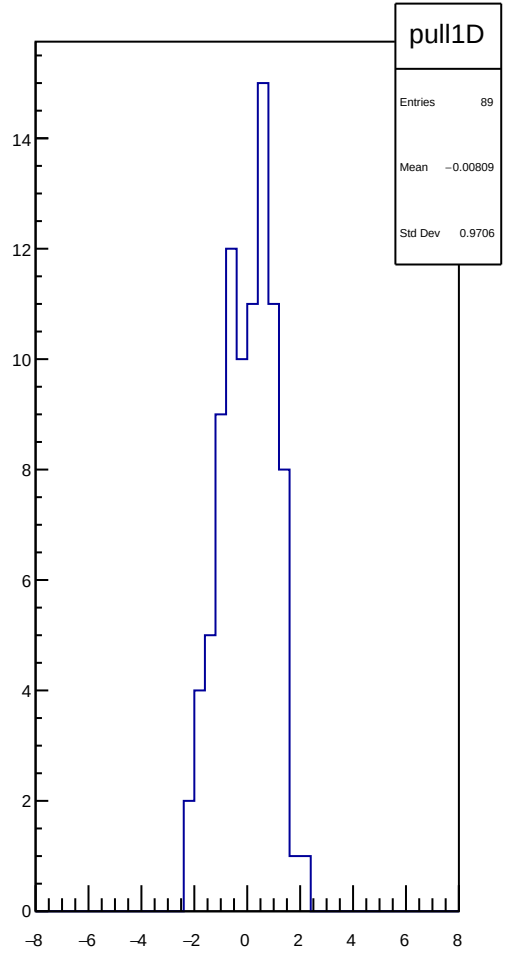

asym_sam_26_avg_rms vs run
χ² / ndf 6914 / 88
p0 347.7 ± 0.2676
420
400
380
360
340
320
300

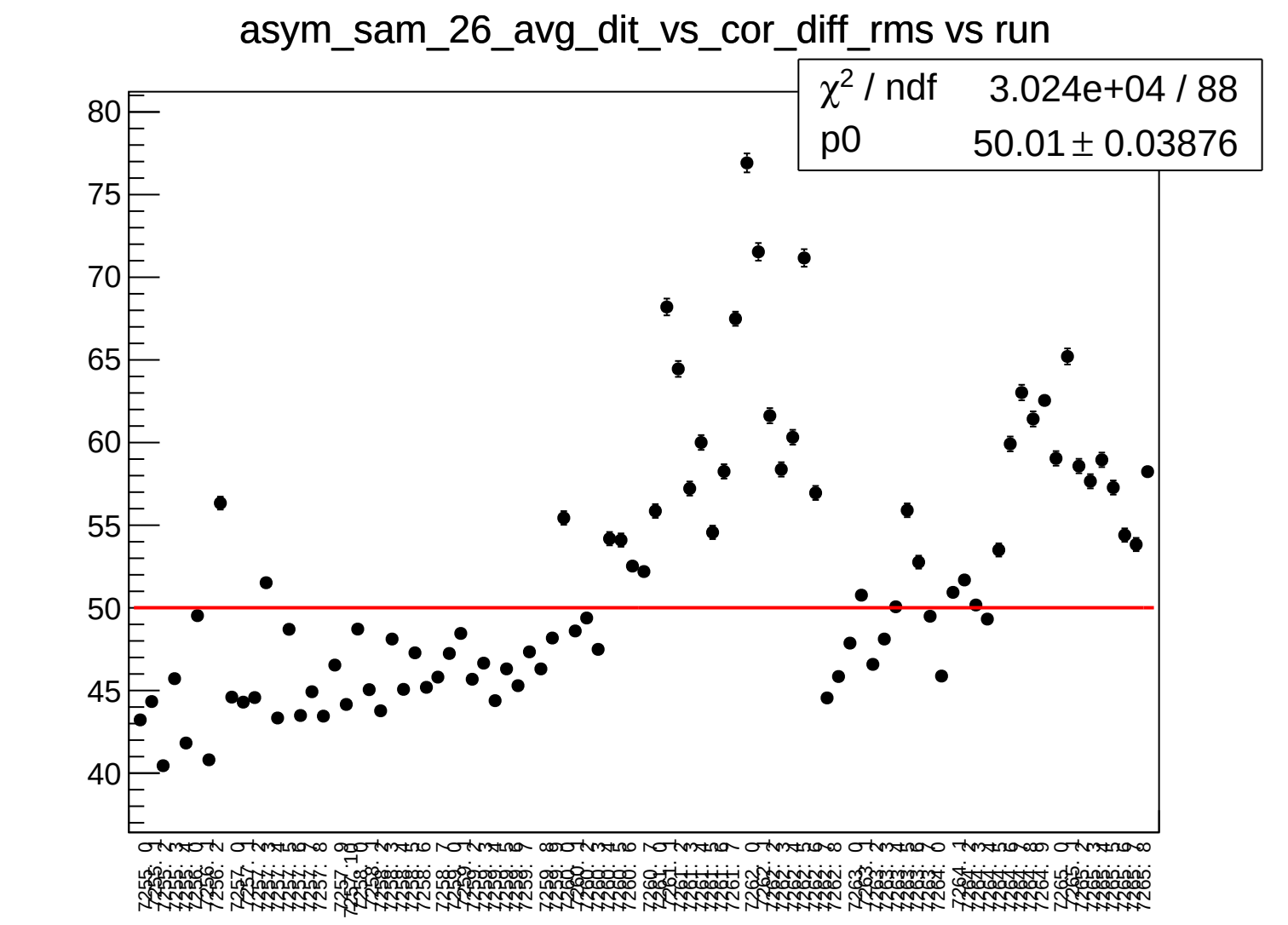

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 92.89 / 88
p0 7.052e−15 ± 1.242e−14
pull
Entries 89
Mean 22.15
Std Dev 0

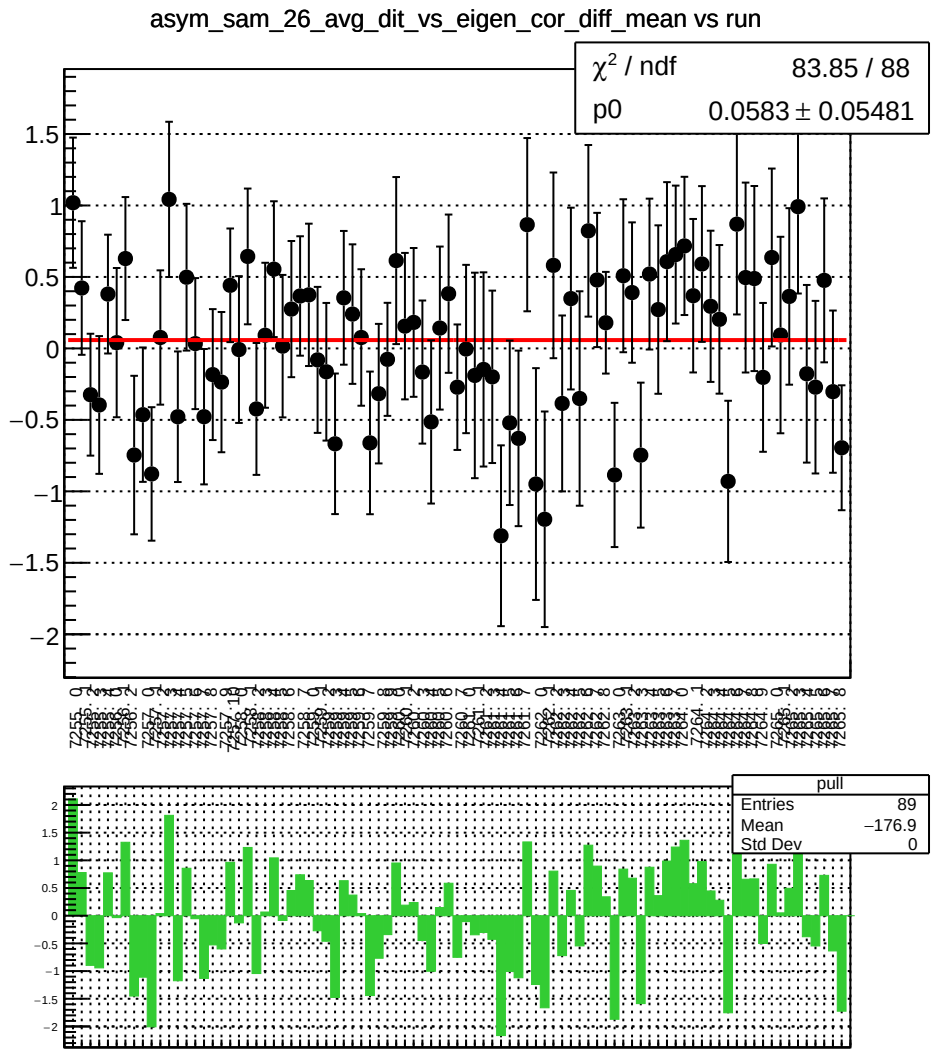

pull1D
Entries 89
Mean −0.03787
Std Dev 1.021

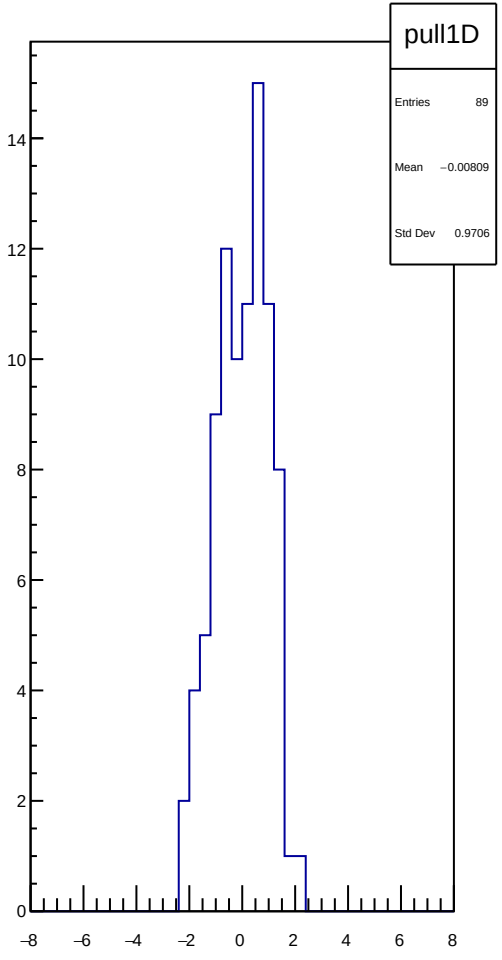

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.031e+06 / 88
p0 7.156e−12 ± 8.78e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

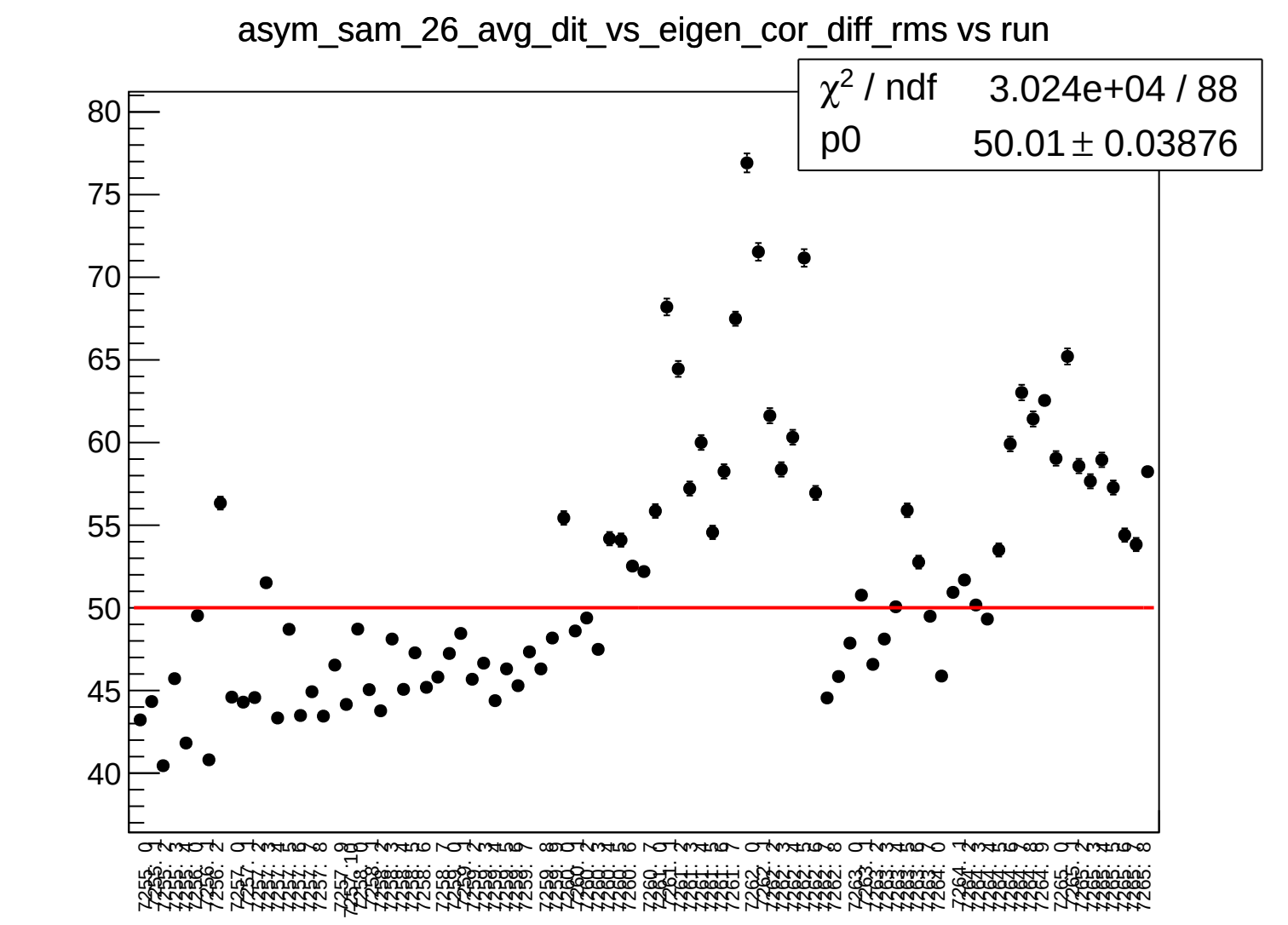

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.85 / 88
p0 0.0583 ± 0.05481
pull
Entries 89
Mean −176.9
Std Dev 0

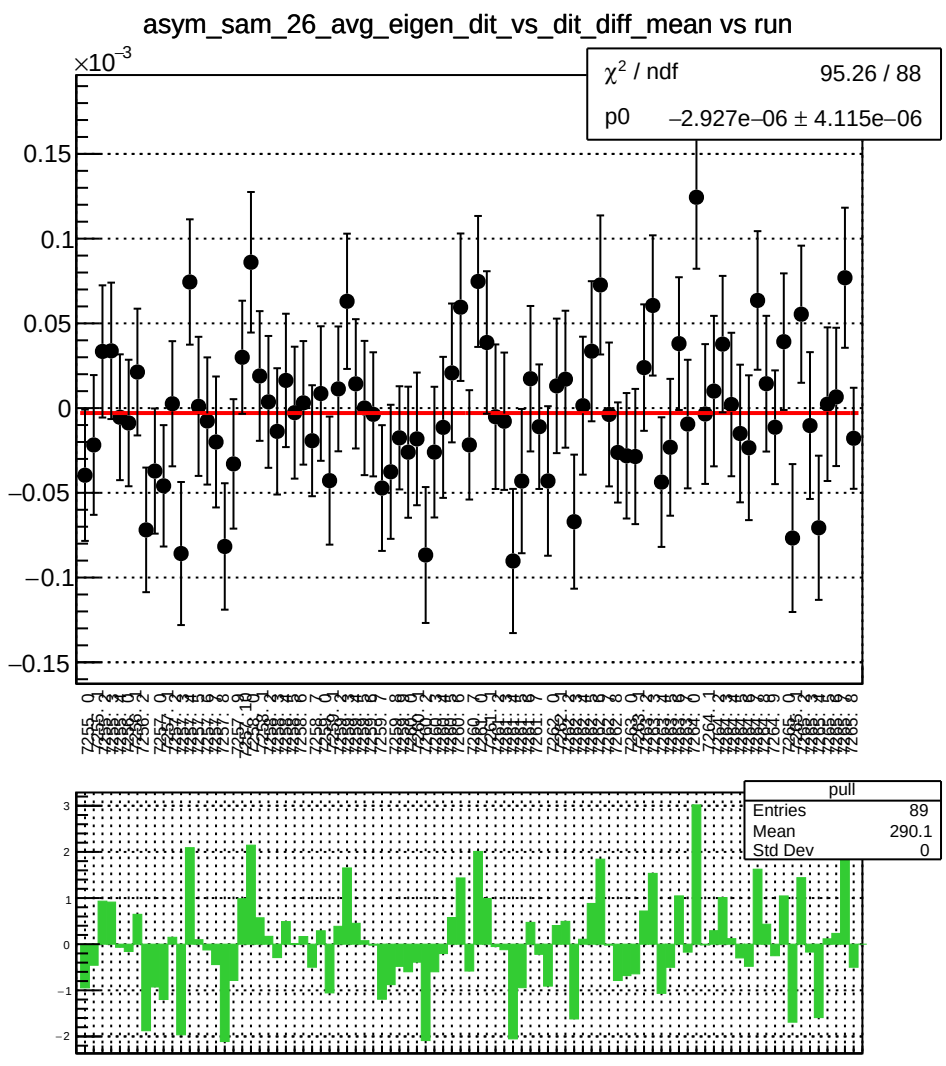

pull1D
Entries 89
Mean −0.00809
Std Dev 0.9706

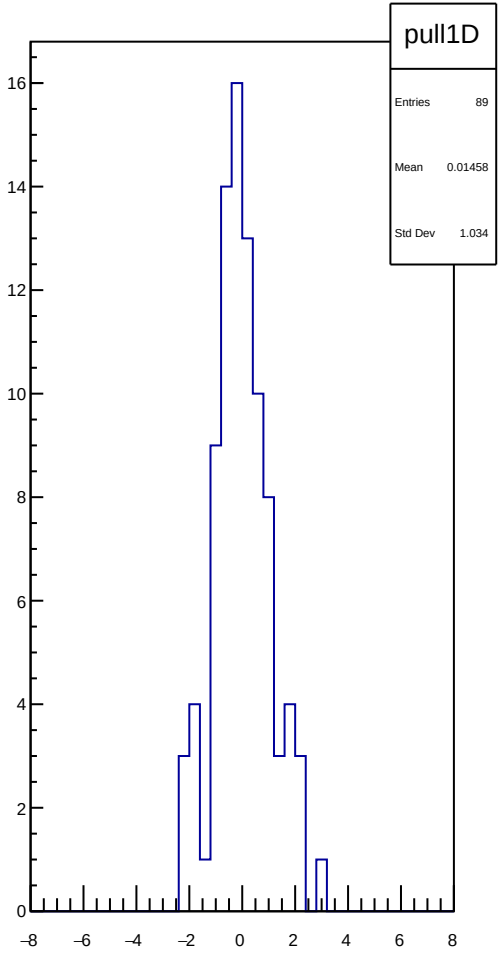

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.024e+04 / 88
p0 50.01 ± 0.03876
80
75
70
65
60
55
50
45
40

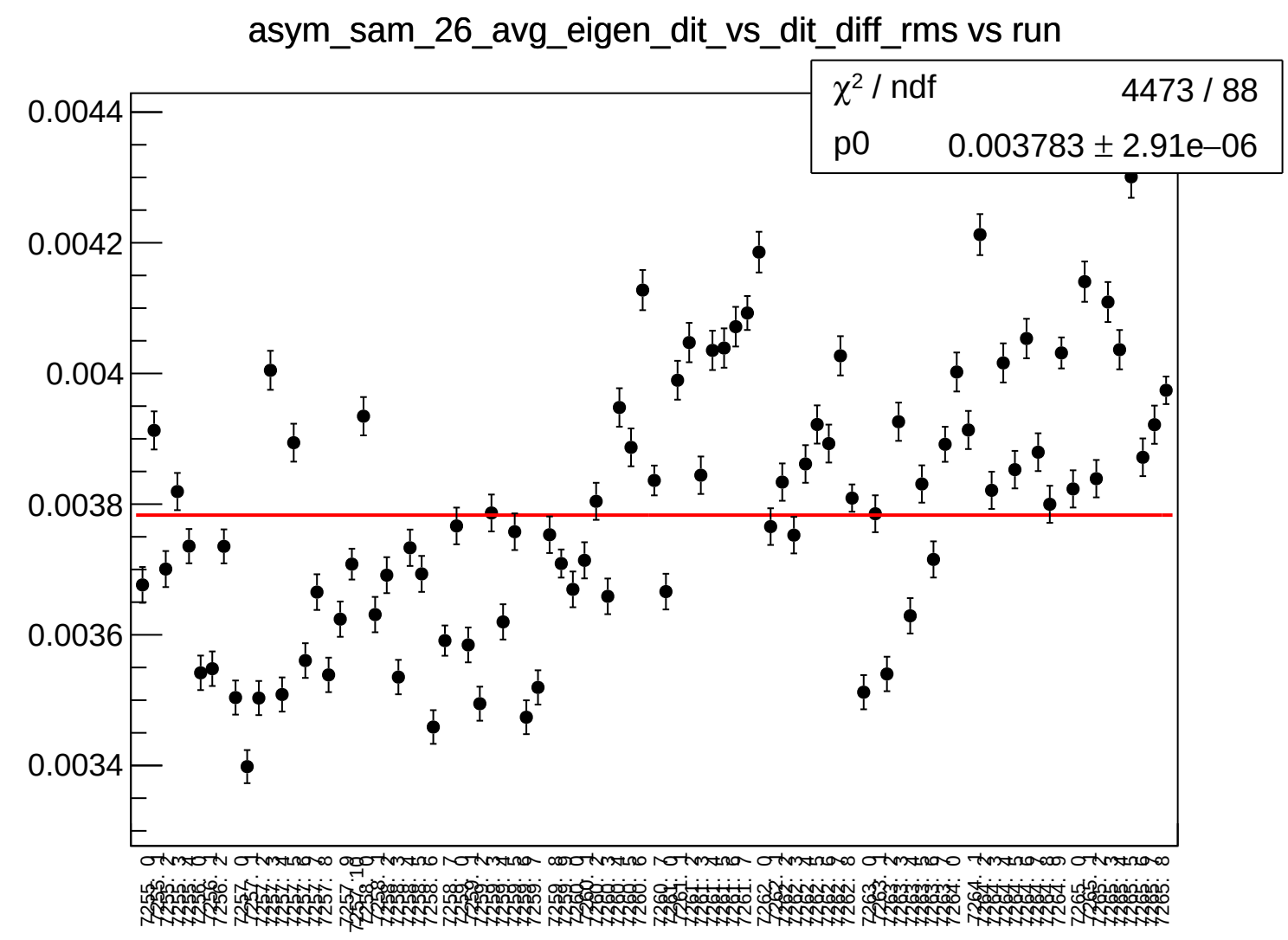

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.85 / 88
p0 0.0583 ± 0.05481
pull
Entries 89
Mean −176.9
Std Dev 0

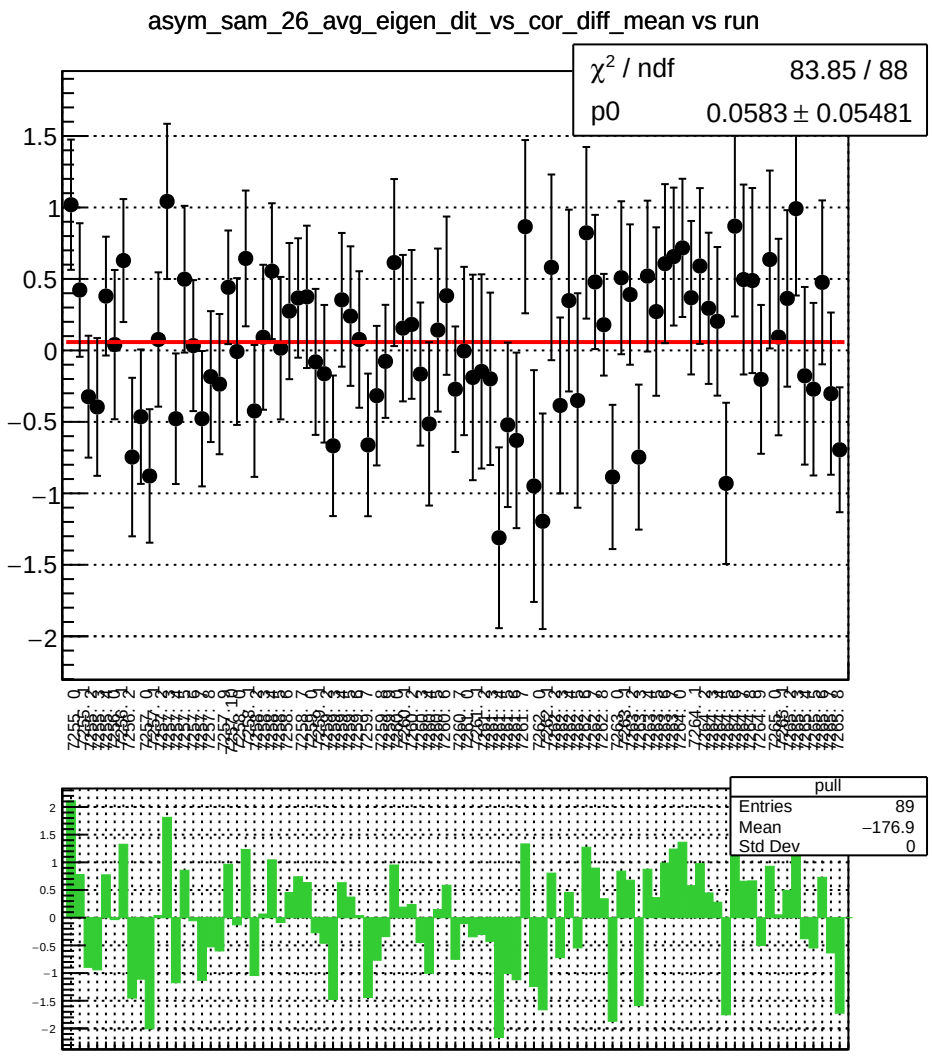

pull1D
Entries 89
Mean −0.00809
Std Dev 0.9706

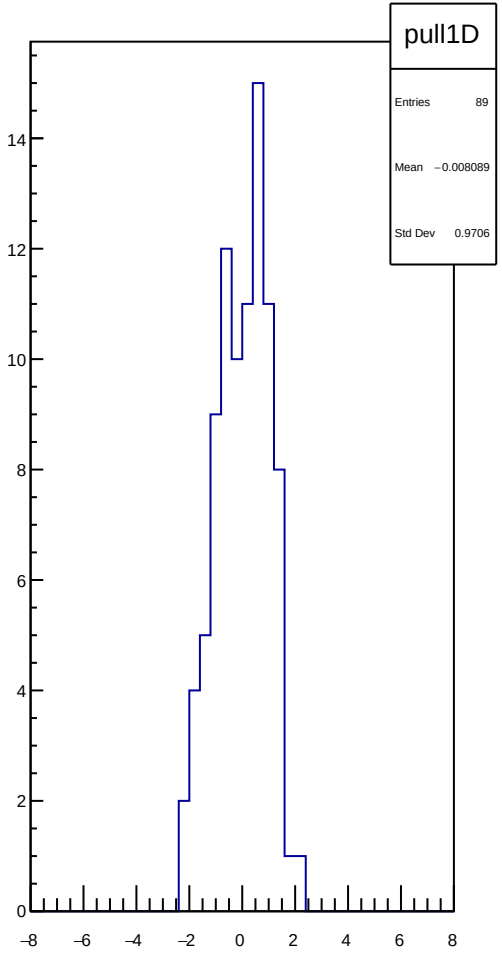

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.024e+04 / 88
p0 50.01 ± 0.03876
80
75
70
65
60
55
50
45
40

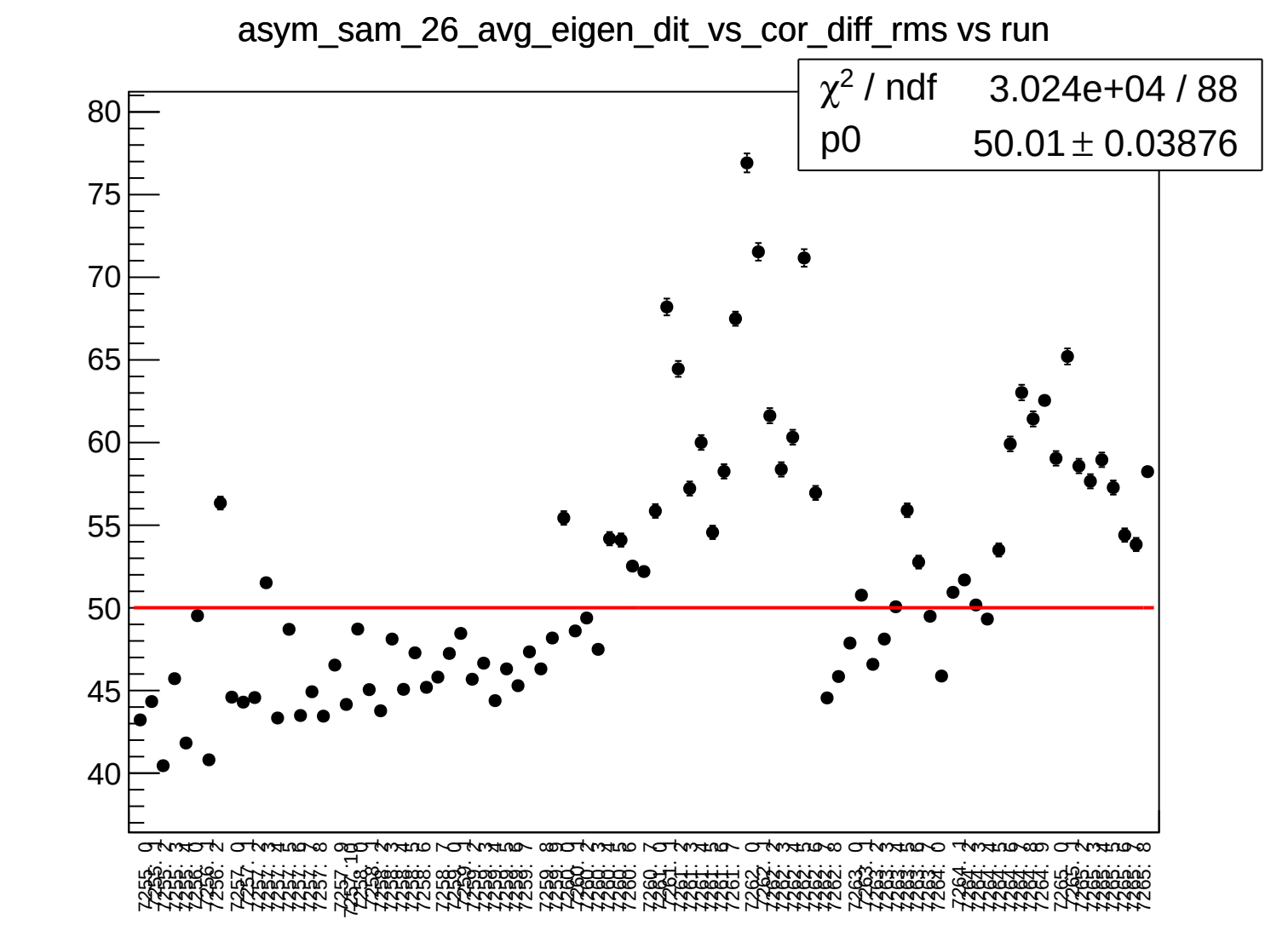

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.26 / 88
p0 −2.927e−06 ± 4.115e−06
pull
Entries 89
Mean 290.1
Std Dev 0

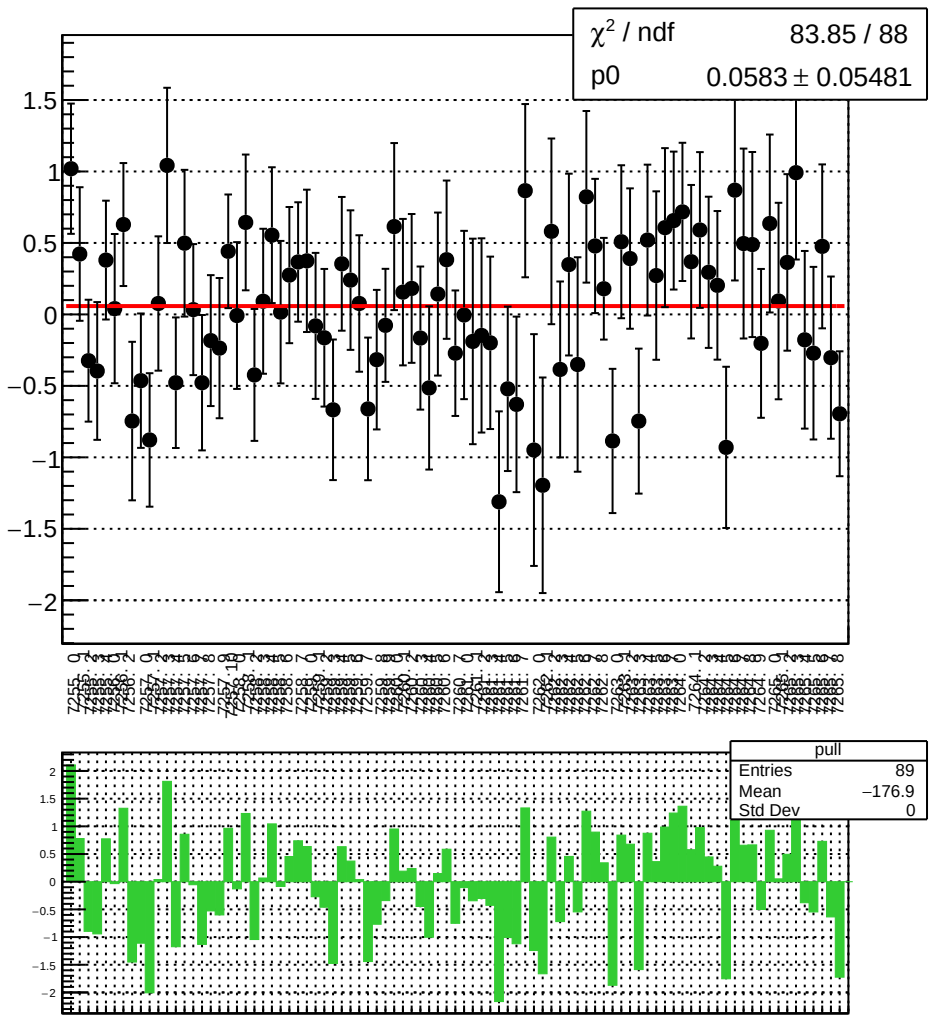

pull1D
Entries 89
Mean 0.01458
Std Dev 1.034

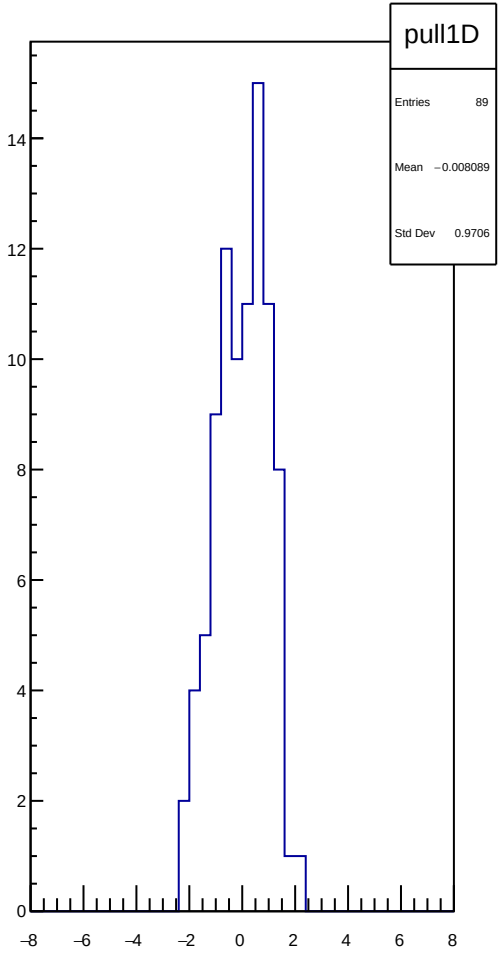

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4473 / 88
p0 0.003783 ± 2.91e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

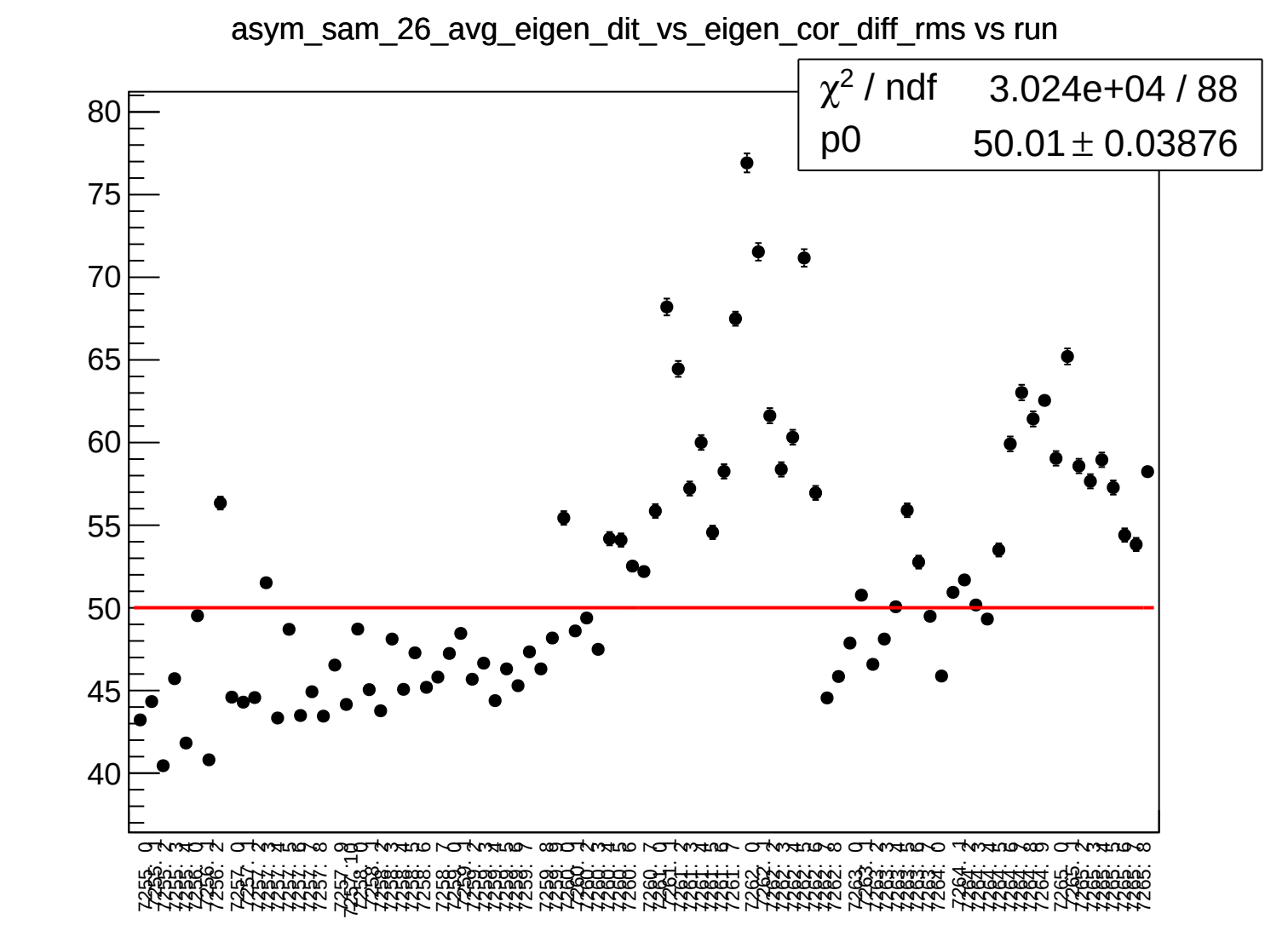

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.85 / 88
p0 0.0583 ± 0.05481
pull
Entries 89
Mean −176.9
Std Dev 0

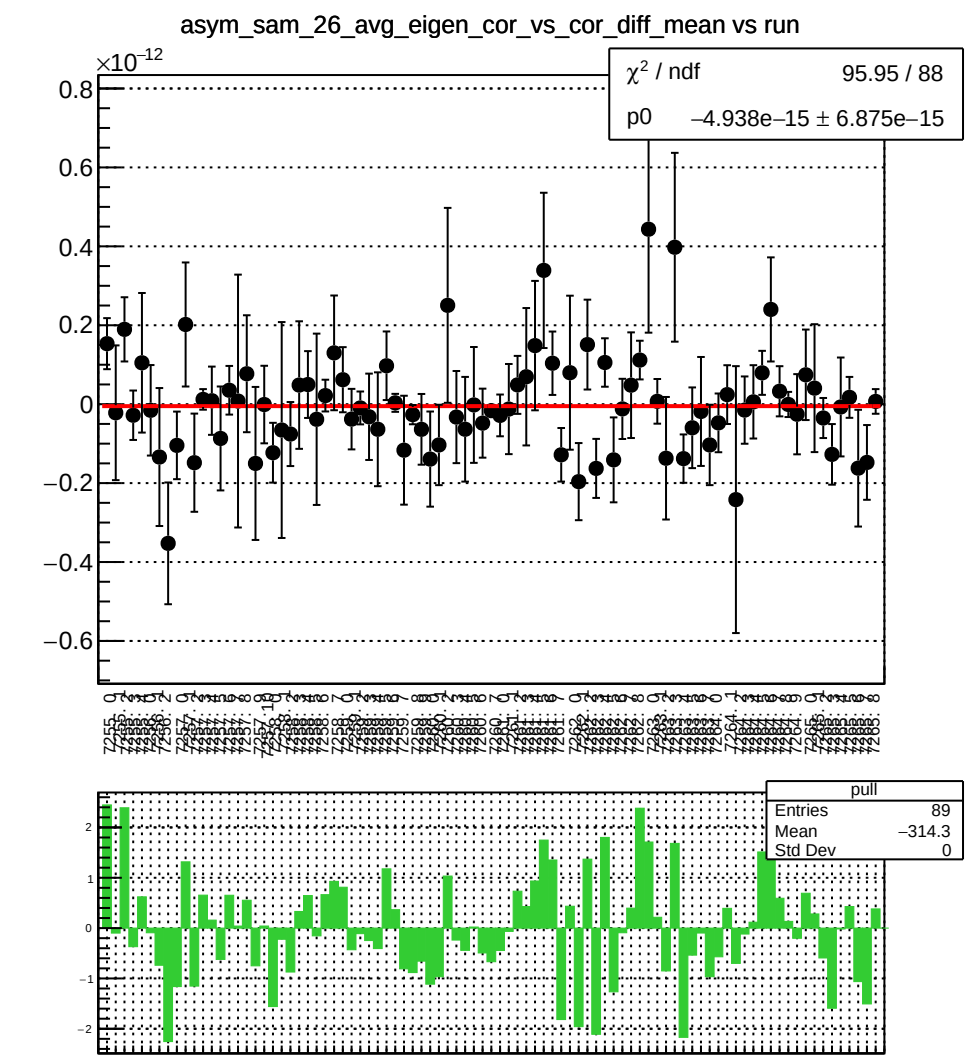

pull1D
Entries 89
Mean −0.008089
Std Dev 0.9706

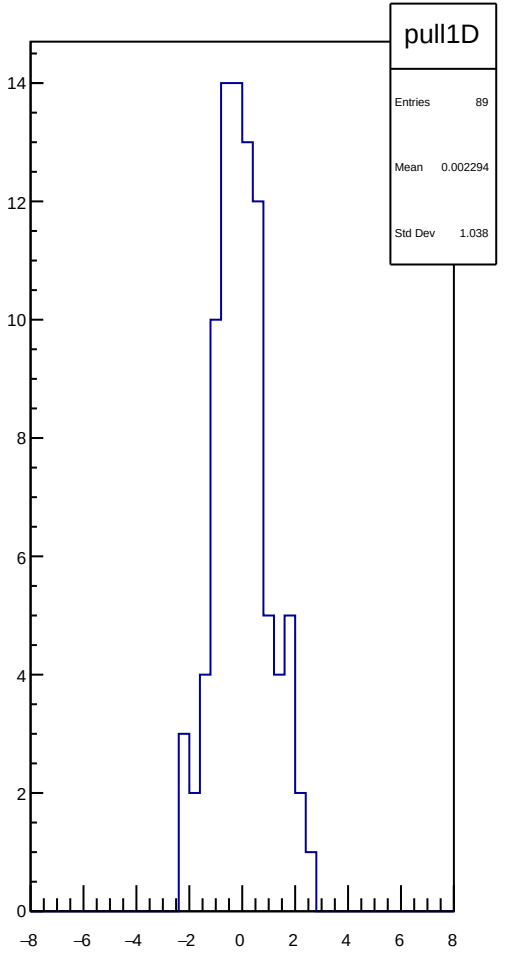

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.024e+04 / 88
p0 50.01 ± 0.03876
80
75
70
65
60
55
50
45
40

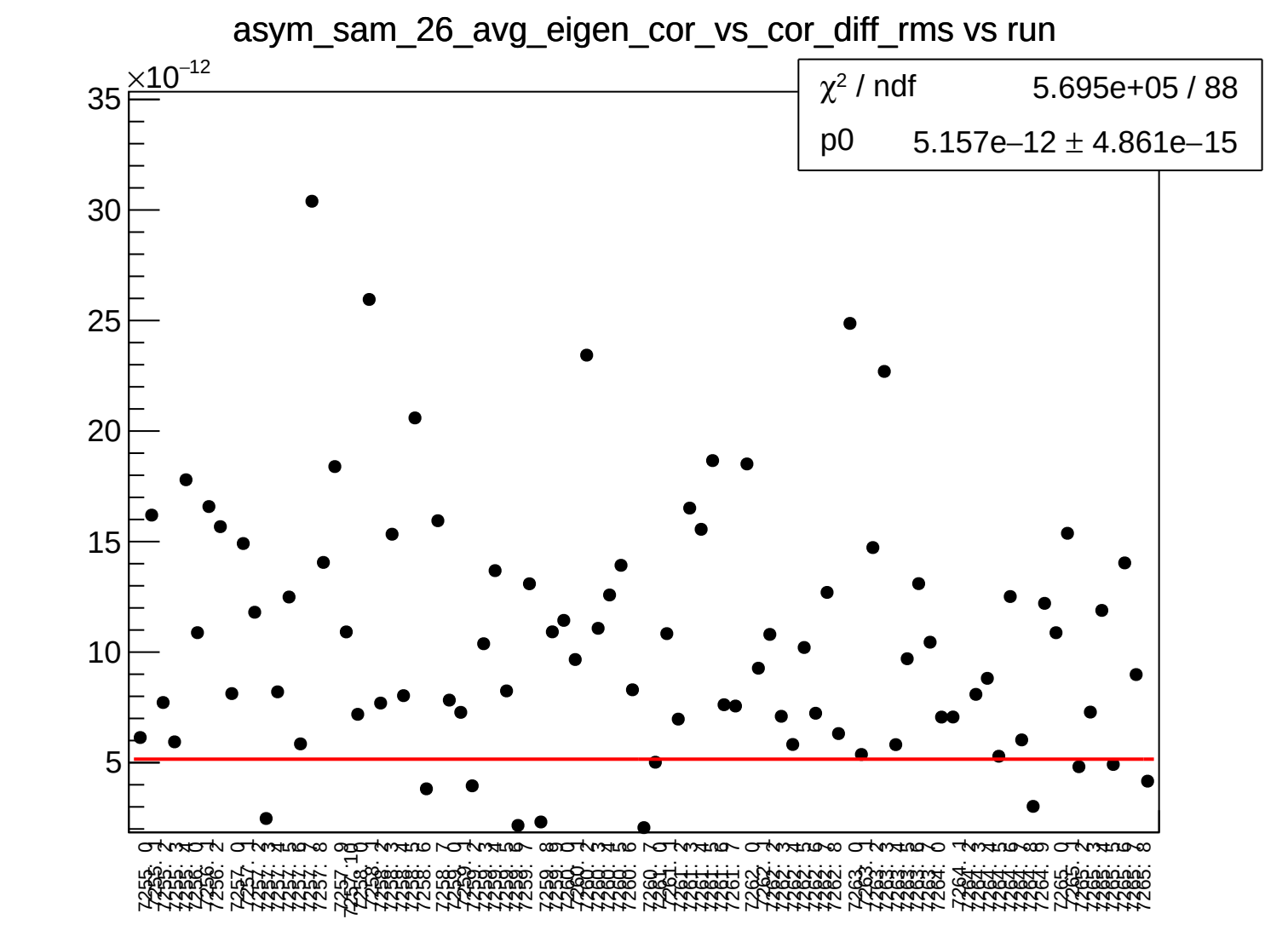

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.85 / 88
p0 0.0583 ± 0.05481
pull
Entries 89
Mean −176.9
Std Dev 0

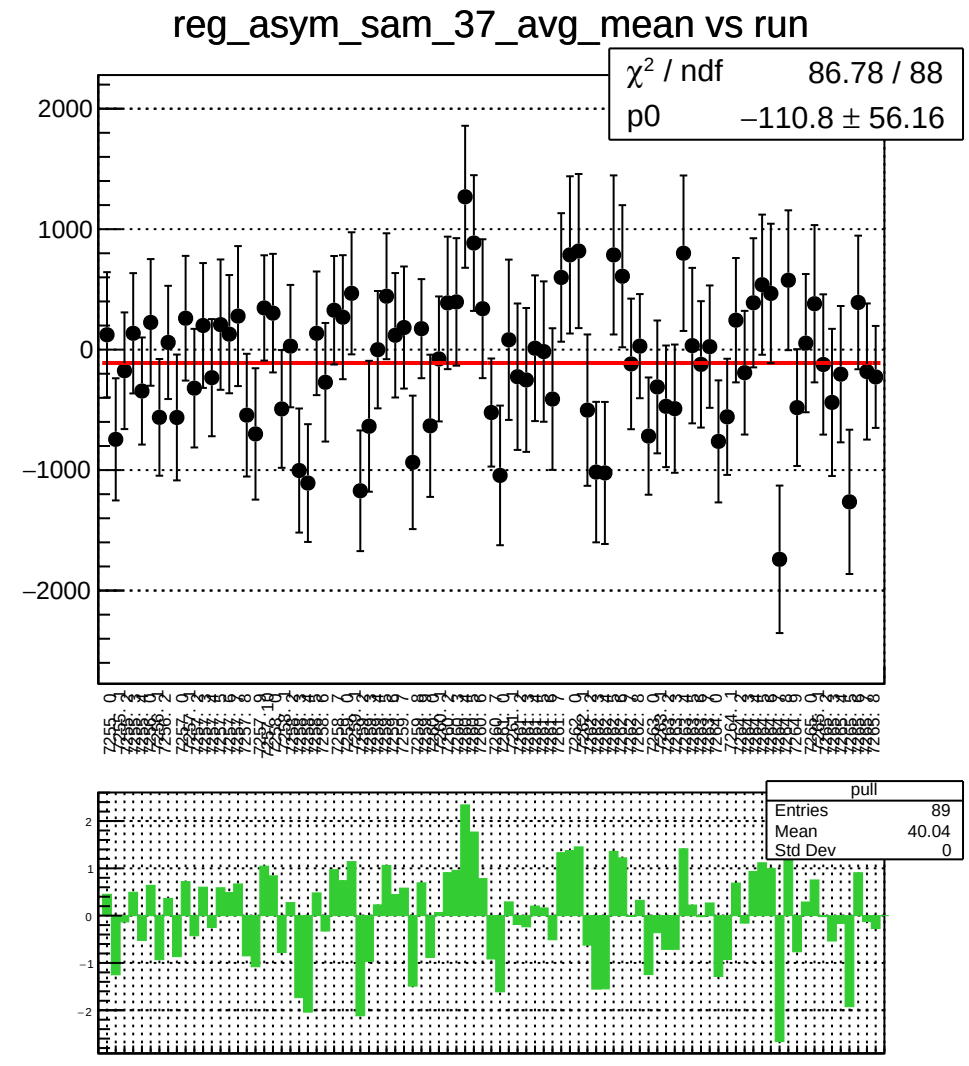

pull1D
Entries 89
Mean −0.008089
Std Dev 0.9706

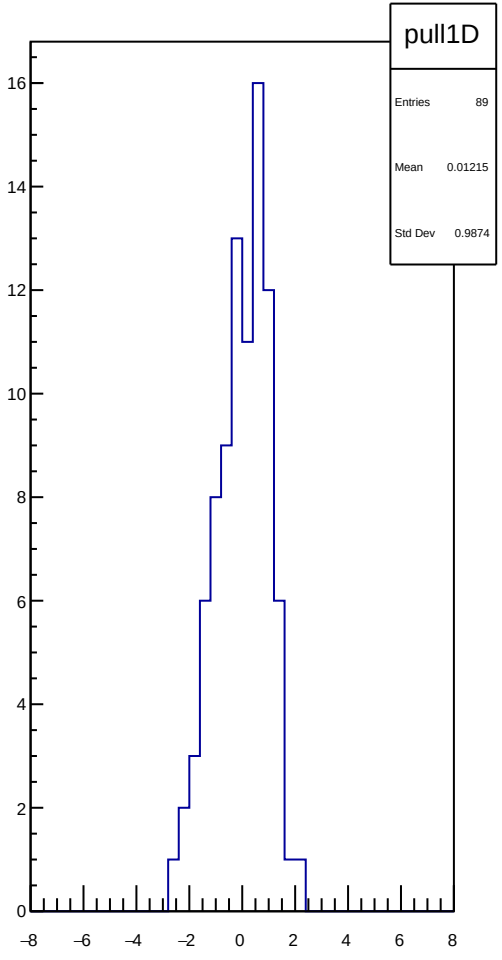

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.024e+04 / 88
p0 50.01 ± 0.03876
80
75
70
65
60
55
50
45
40

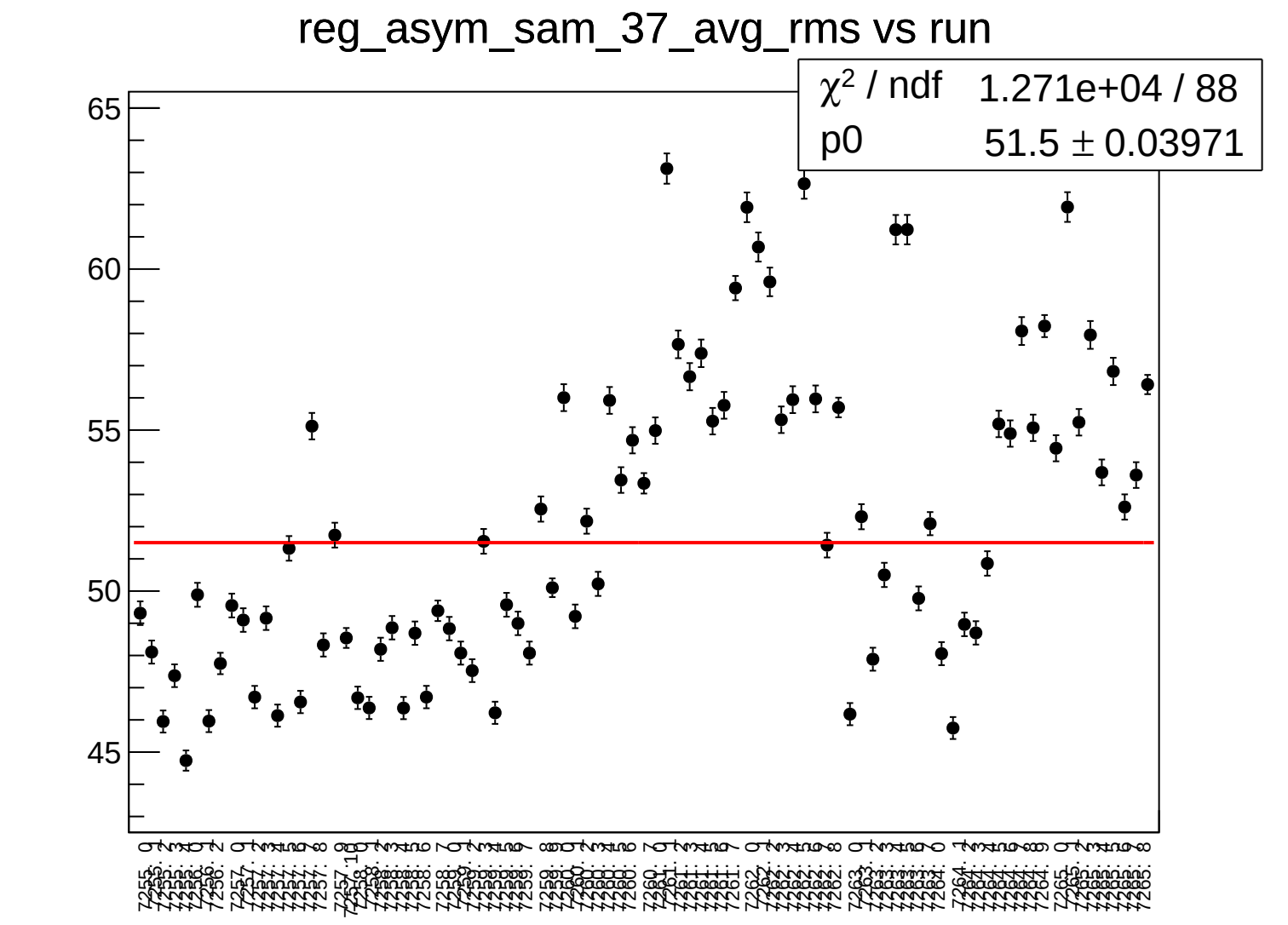

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.95 / 88
p0 −4.938e−15 ± 6.875e−15
pull
Entries 89
Mean −314.3
Std Dev 0

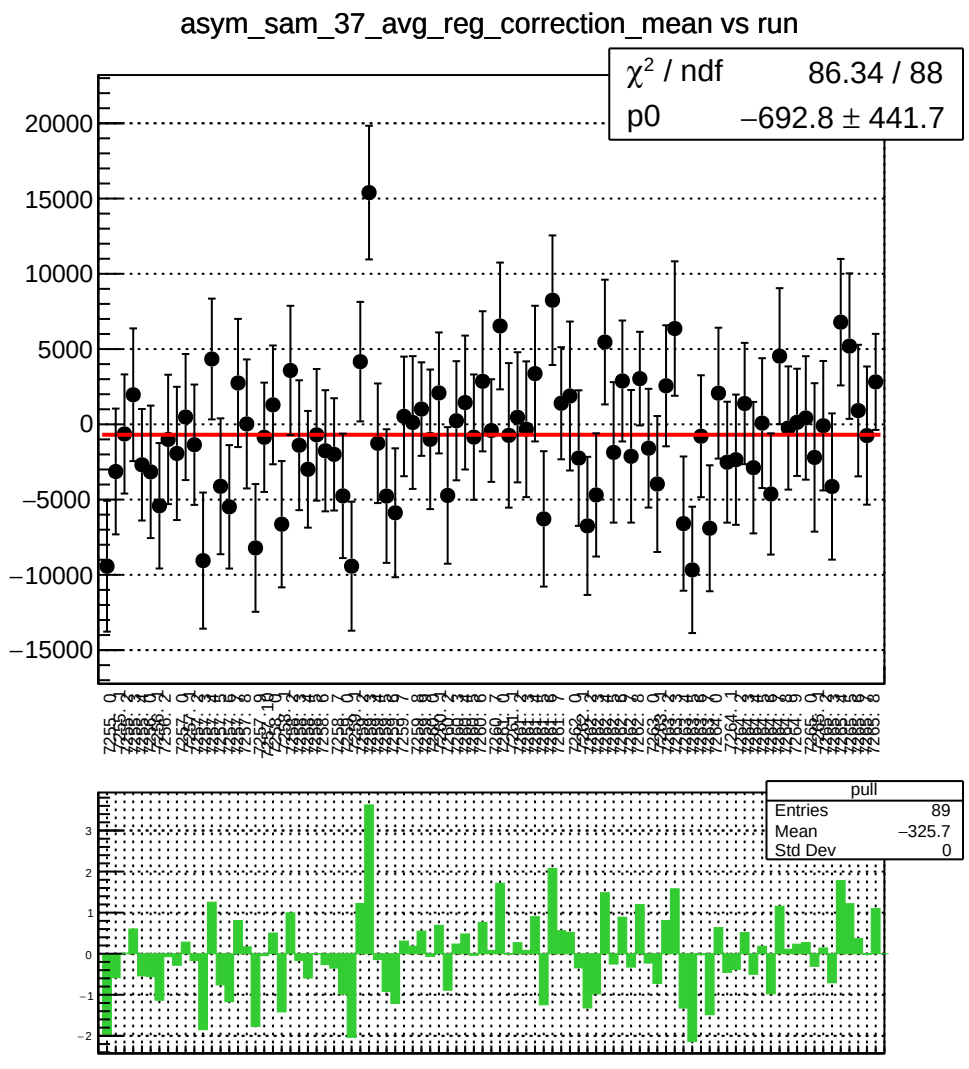

pull1D
Entries 89
Mean 0.002294
Std Dev 1.038

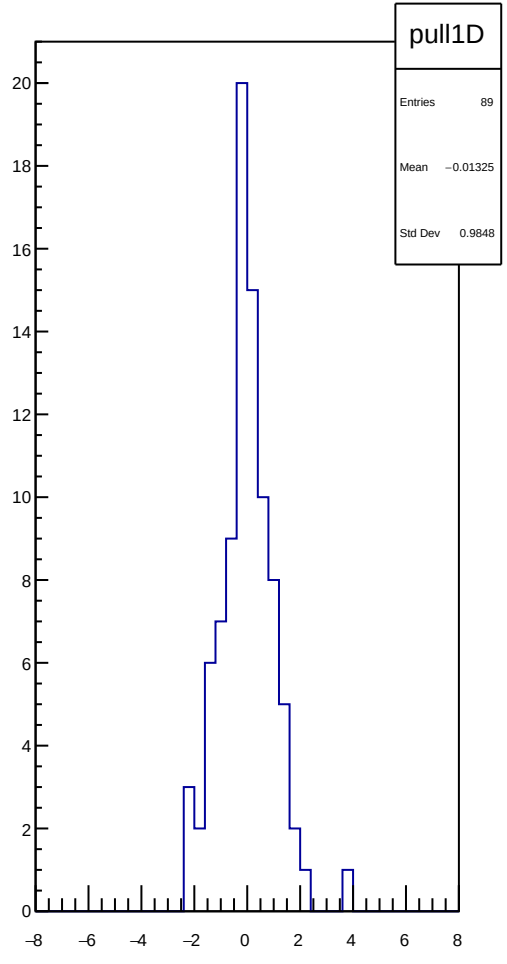

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.695e+05 / 88
p0 5.157e−12 ± 4.861e−15
35
30
25
20
15
10
5

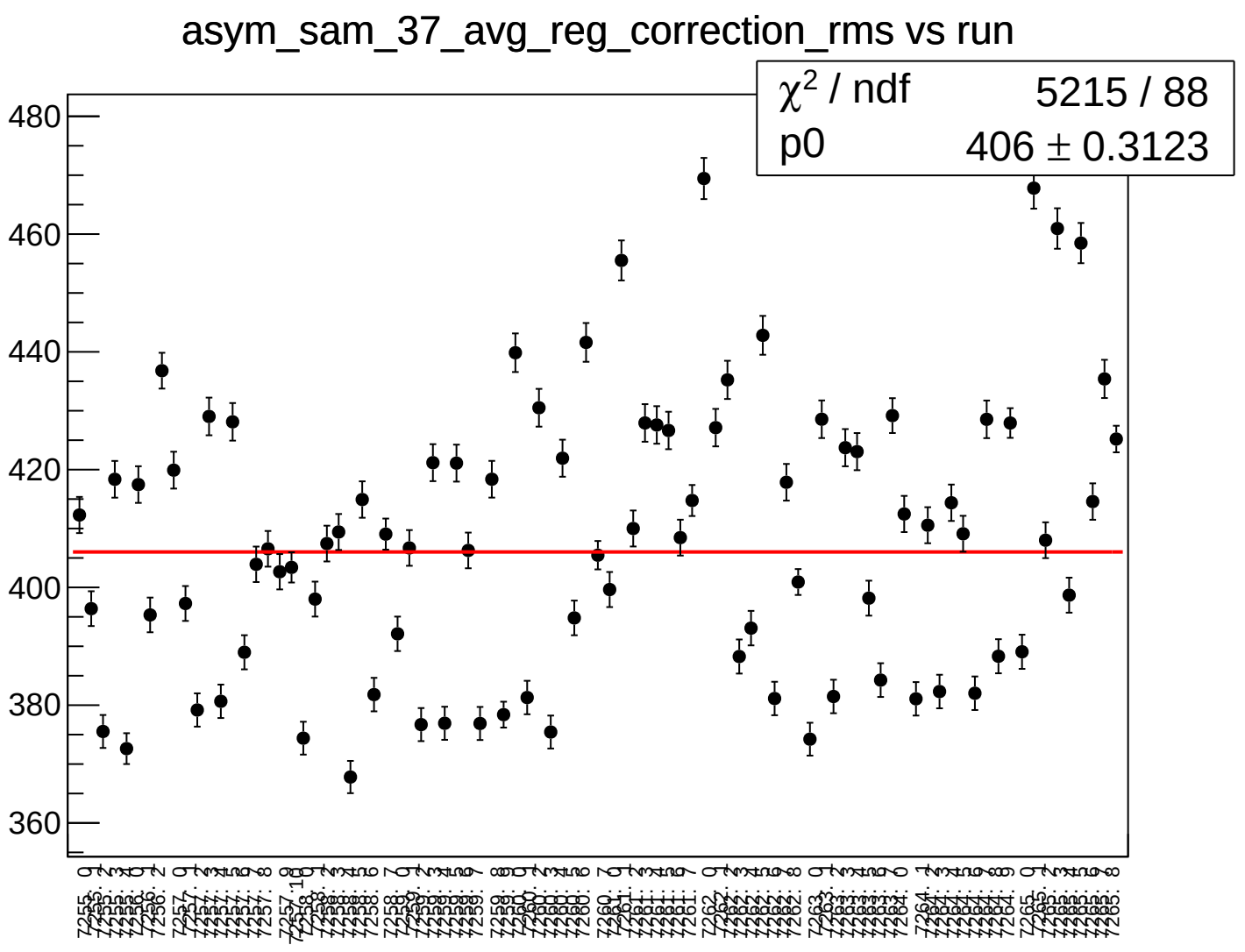

reg_asym_sam_37_avg_mean vs run
χ² / ndf 86.78 / 88
p0 −110.8 ± 56.16
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 40.04
Std Dev 0
2
1
0
−1
−2

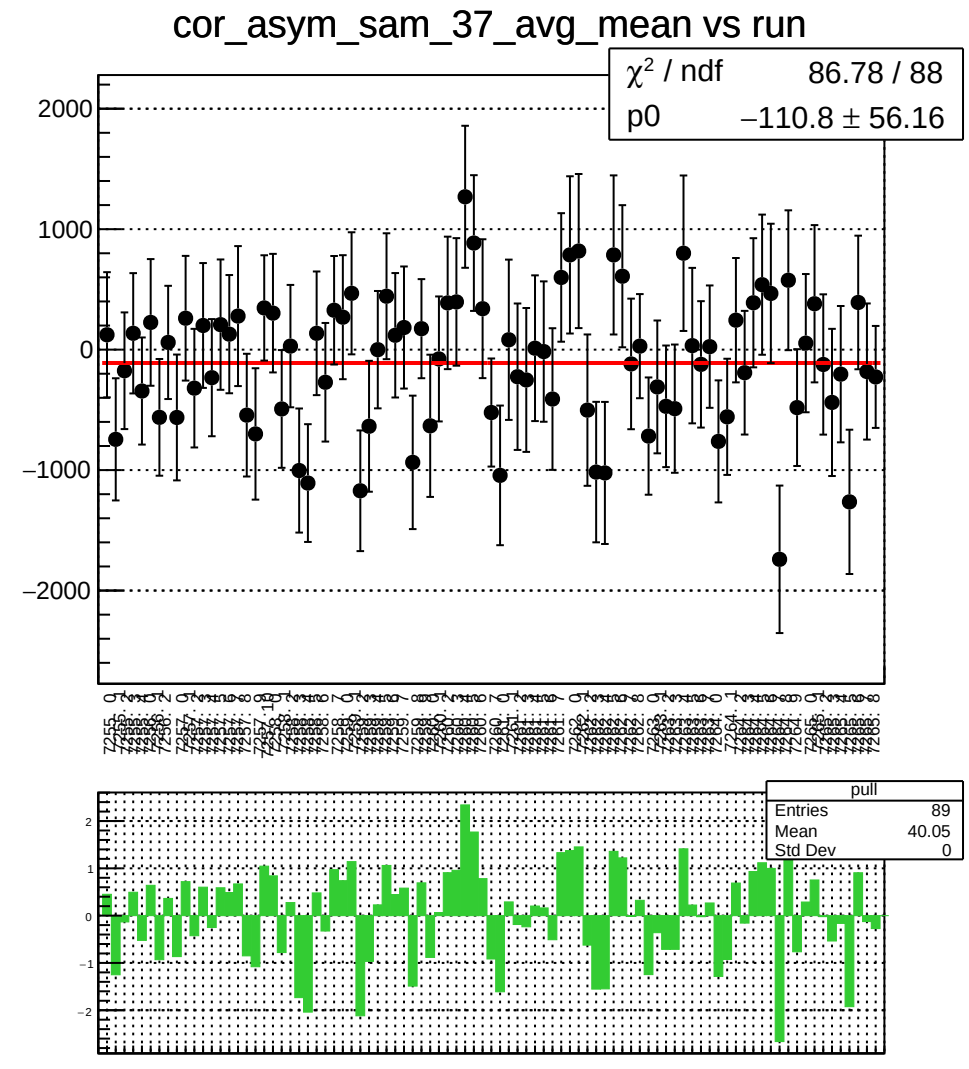

pull1D
Entries 89
Mean 0.01215
Std Dev 0.9874
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

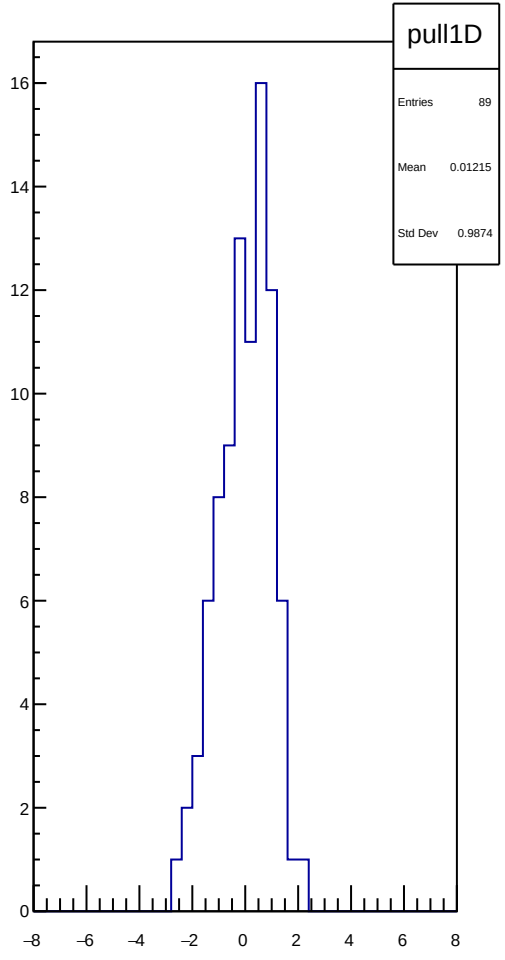

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.271e+04 / 88
p0 51.5 ± 0.03971
65
60
55
50
45

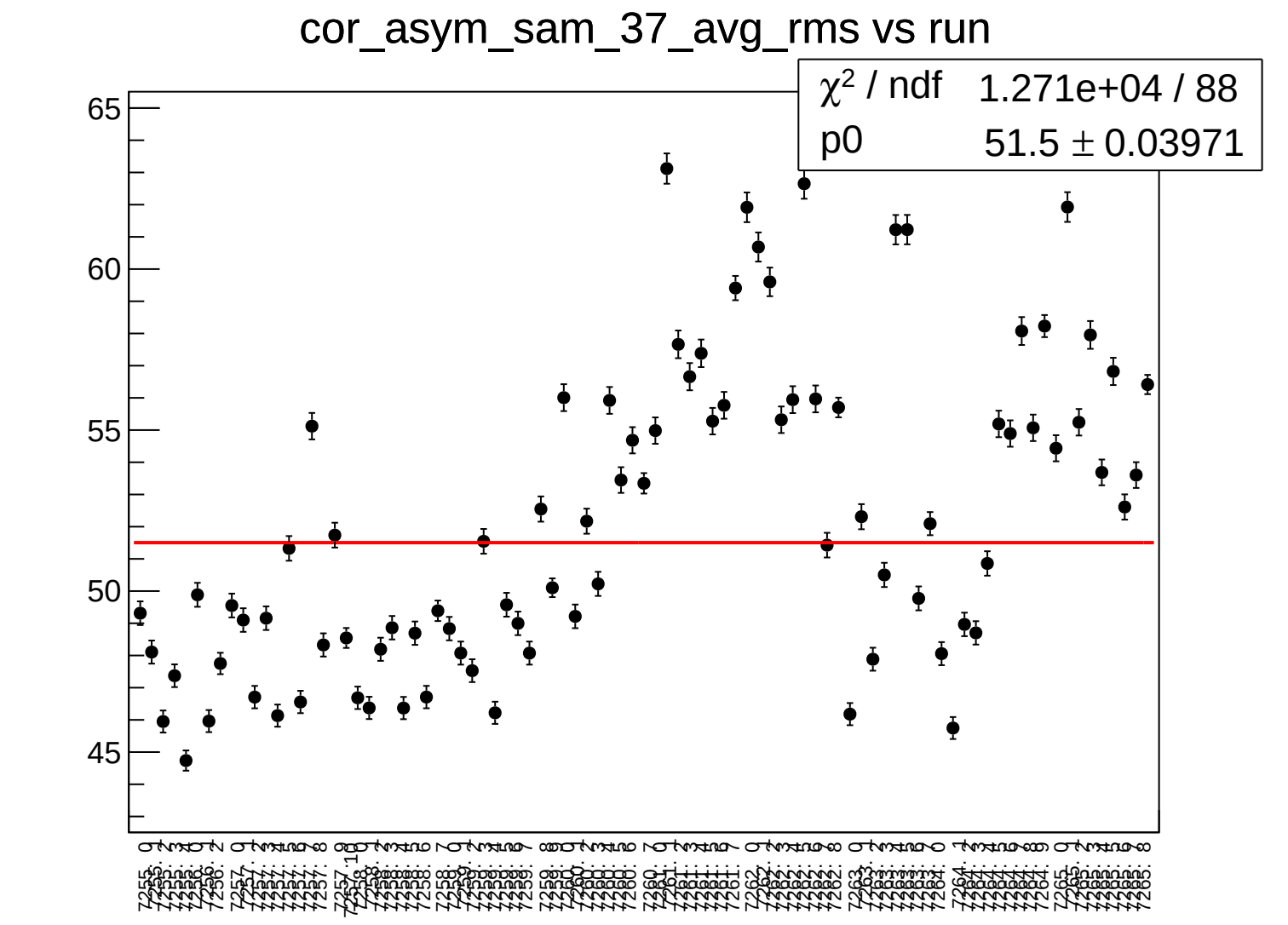

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 86.34 / 88
p0 −692.8 ± 441.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −325.7
Std Dev 0
3
2
1
0
−1
−2

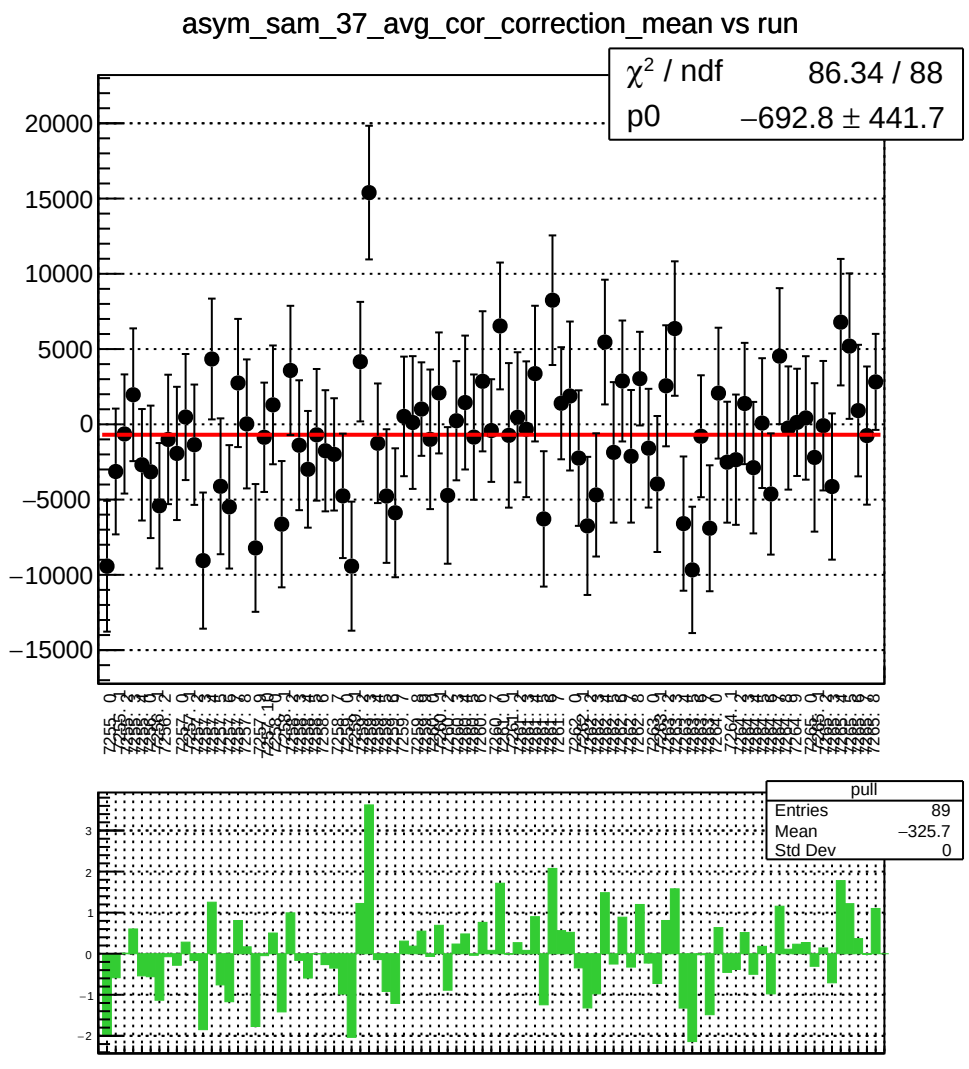

pull1D
Entries 89
Mean −0.01325
Std Dev 0.9848
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

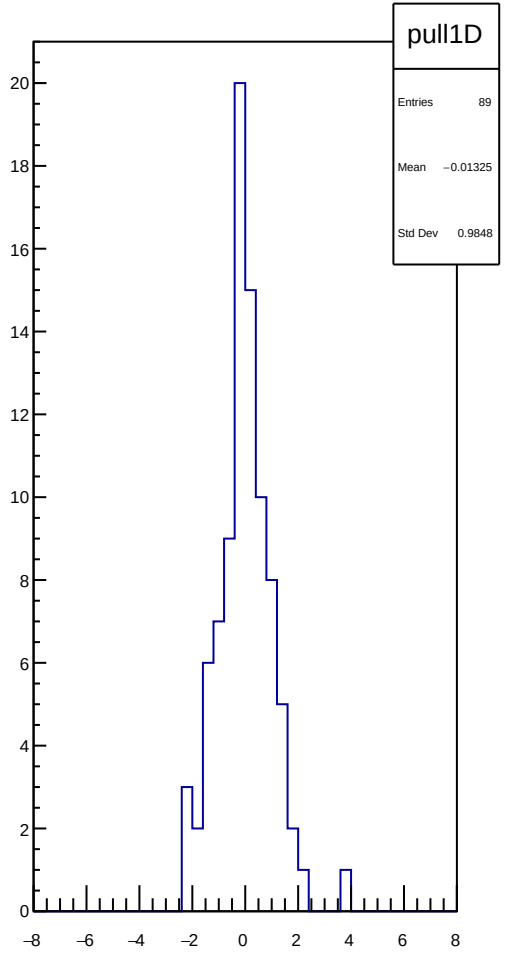

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 5215 / 88
p0 406 ± 0.3123
480
460
440
420
400
380
360

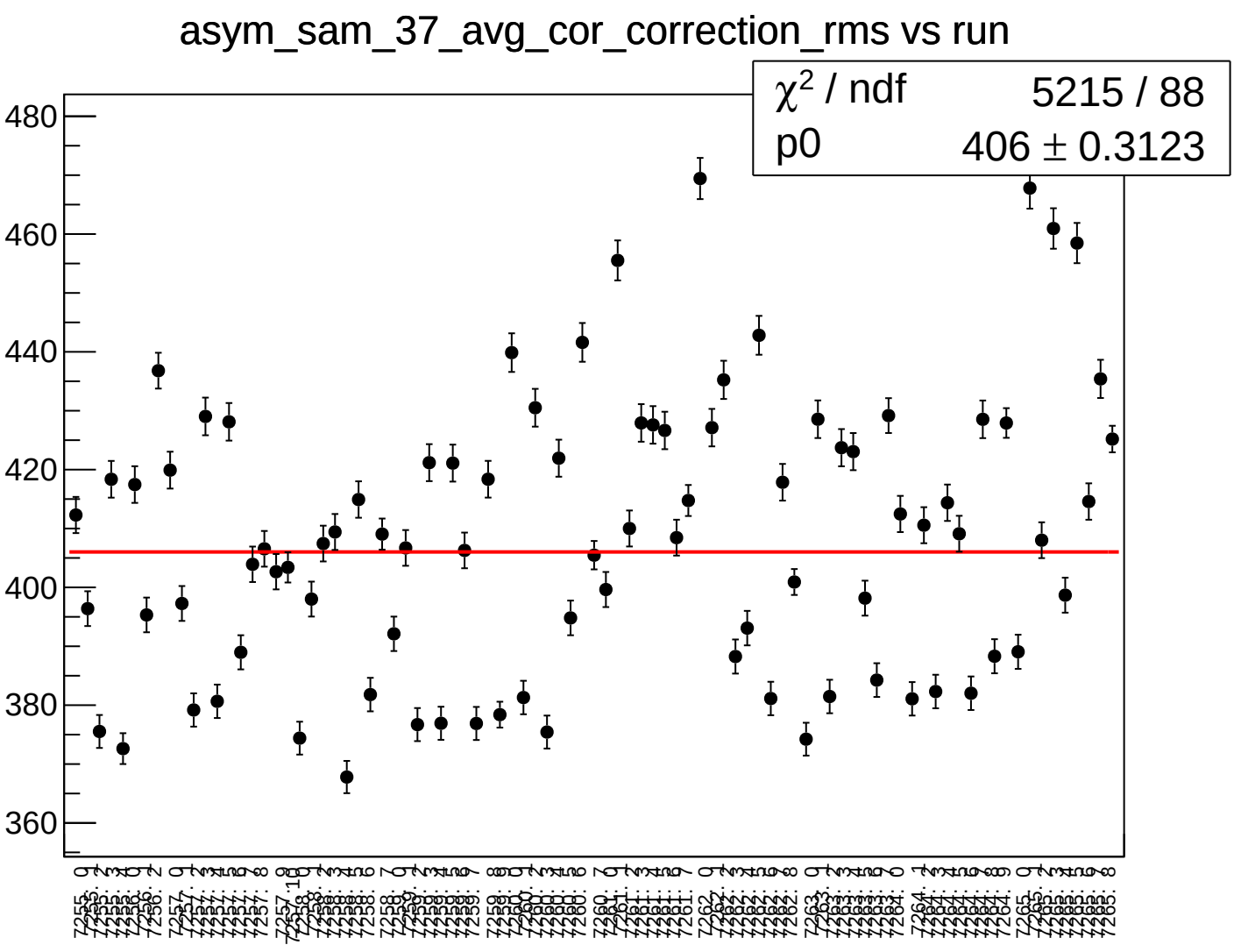

cor_asym_sam_37_avg_mean vs run
χ² / ndf 86.78 / 88
p0 −110.8 ± 56.16
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 40.05
Std Dev 0
2
1
0
−1

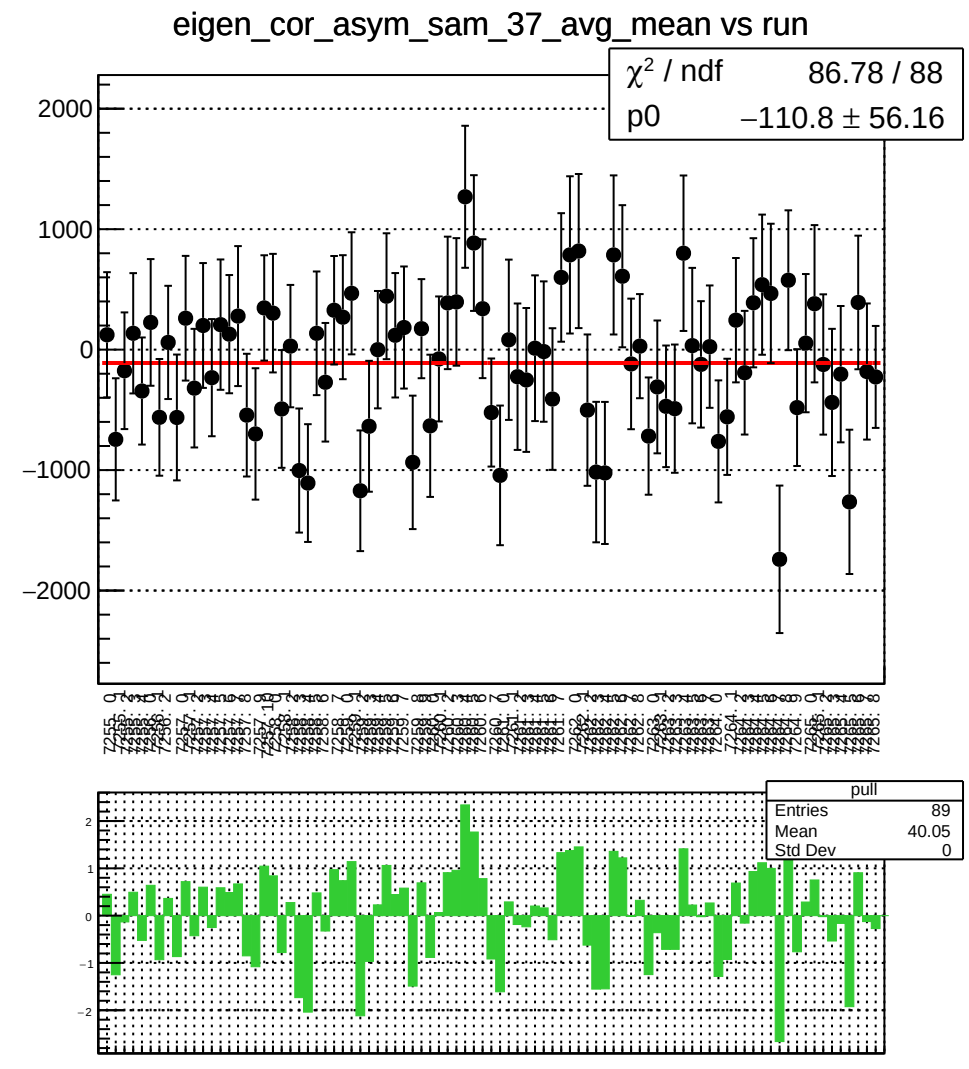

pull1D
Entries 89
Mean 0.01215
Std Dev 0.9874
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

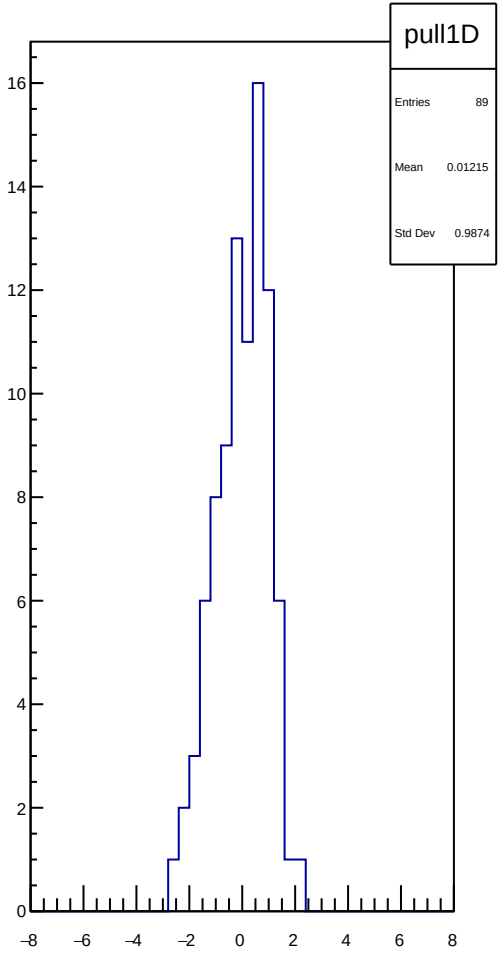

cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.271e+04 / 88
p0 51.5 ± 0.03971
65
60
55
50
45

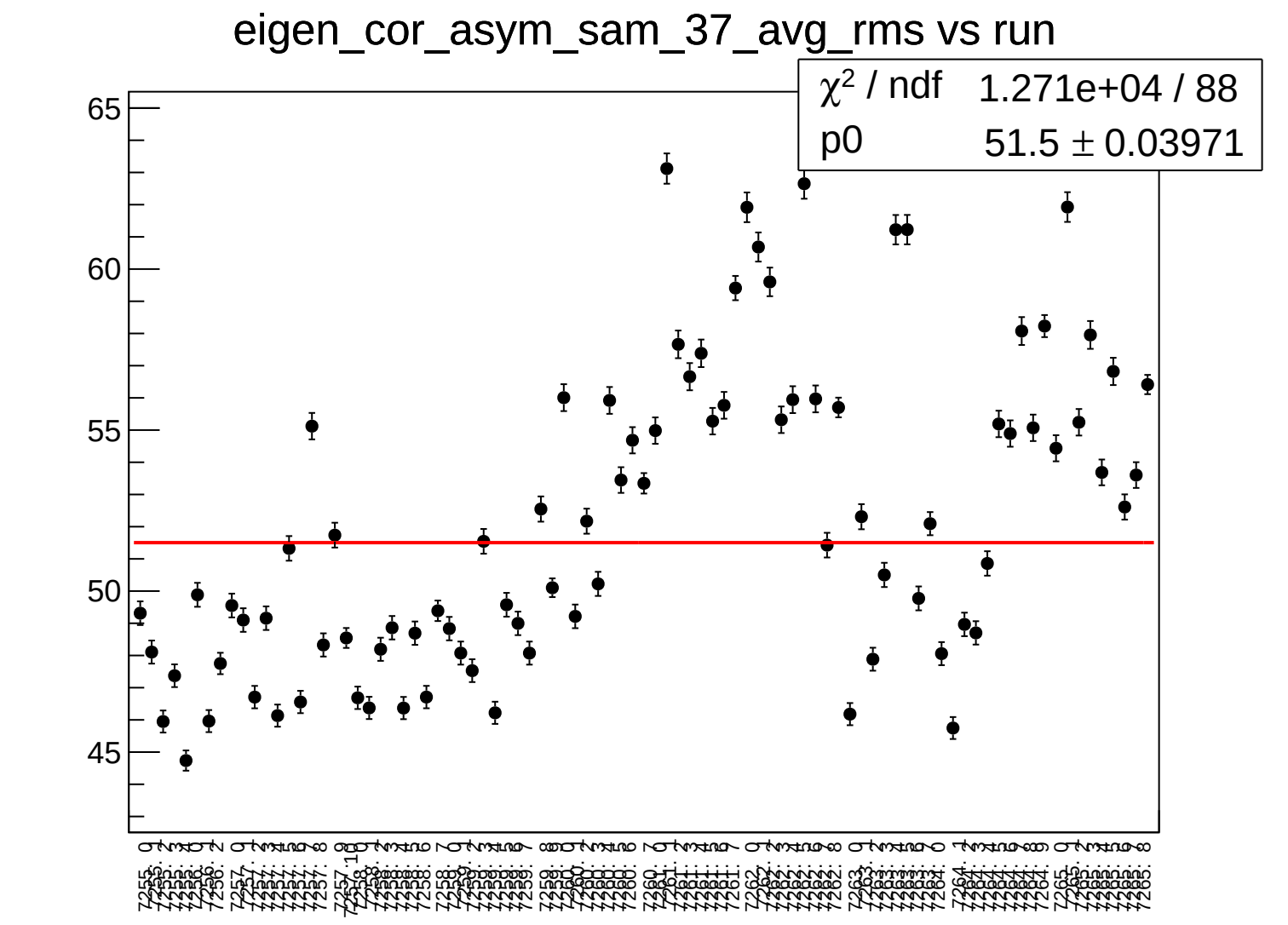

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 86.34 / 88
p0 −692.8 ± 441.7
pull
Entries 89
Mean −325.7
Std Dev 0

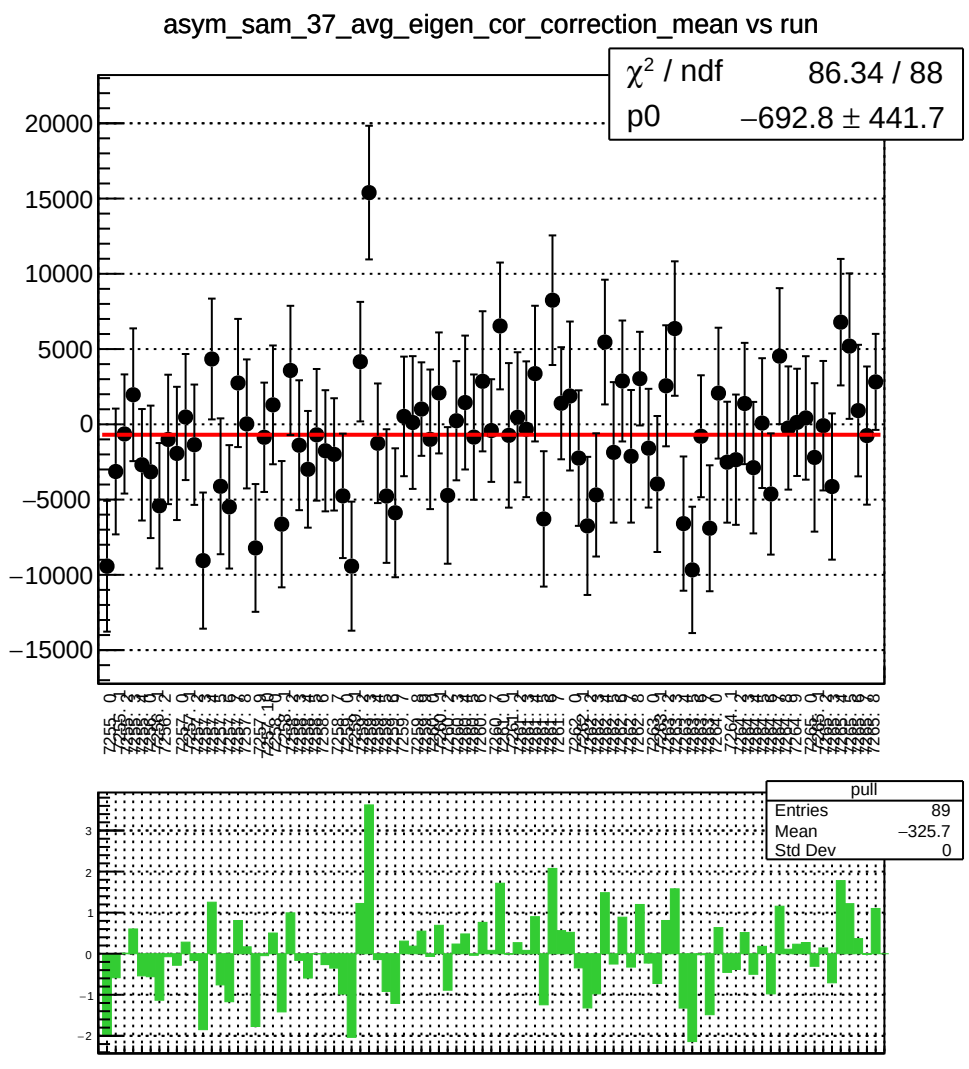

pull1D
Entries 89
Mean −0.01325
Std Dev 0.9848

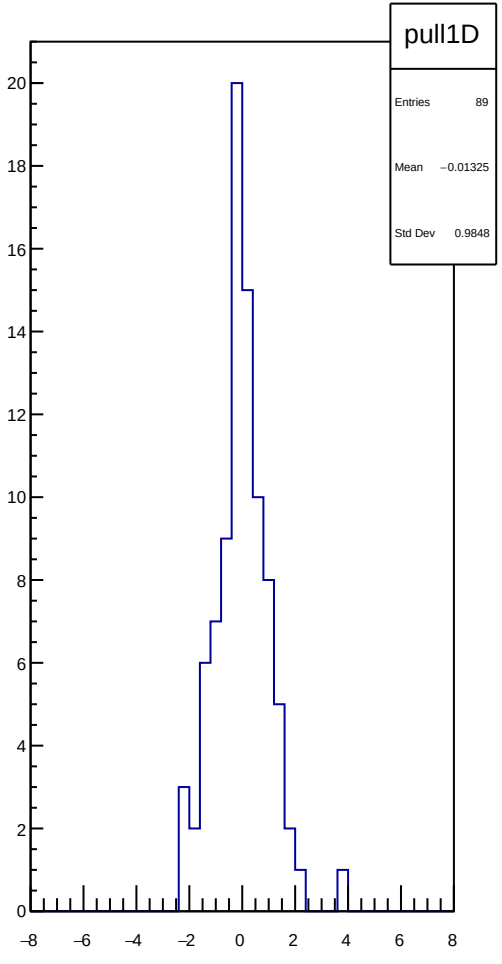

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 5215 / 88
p0 406 ± 0.3123
480
460
440
420
400
380
360

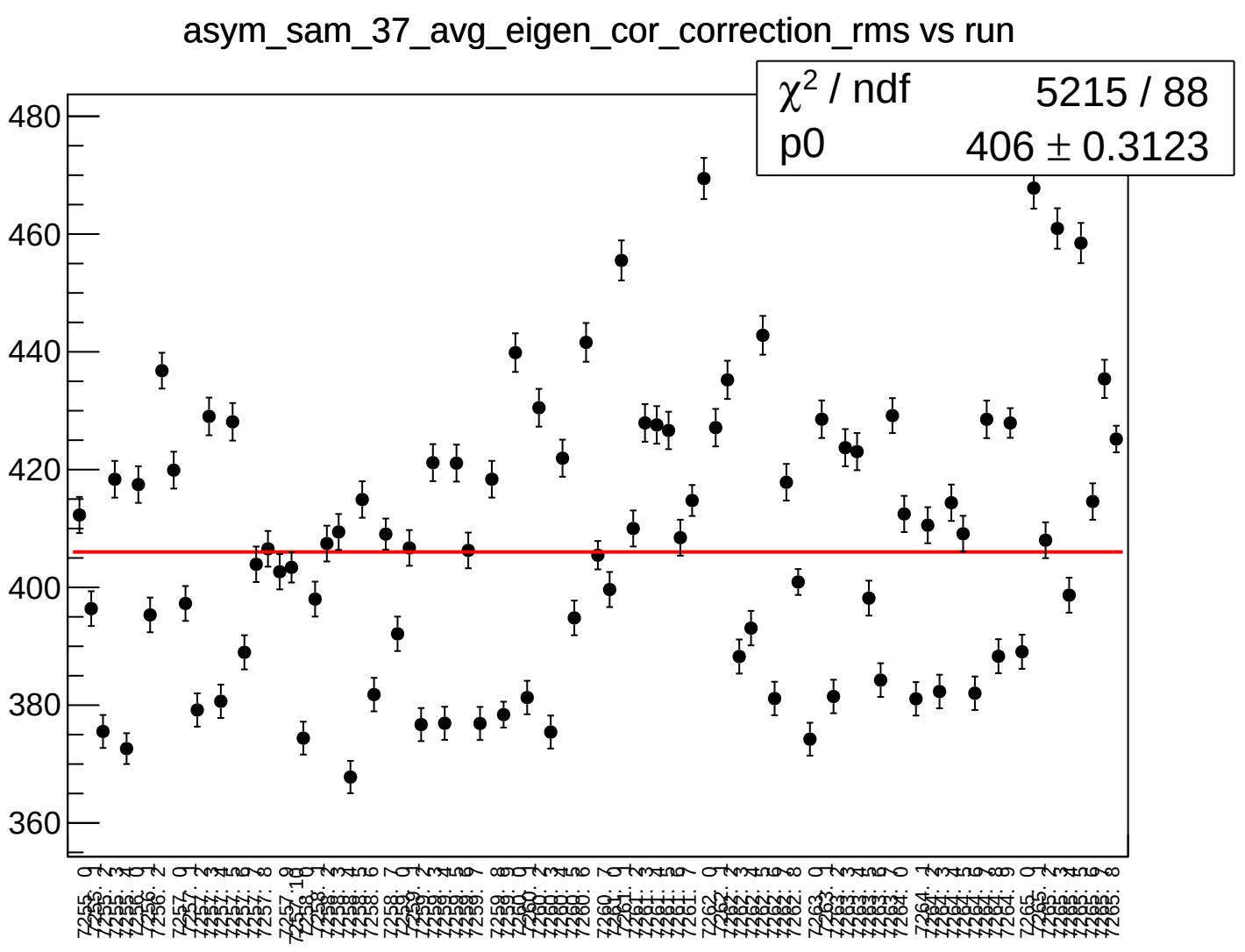

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 86.78 / 88
p0 −110.8 ± 56.16
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 40.05
Std Dev 0
2
1
0
−1
−2

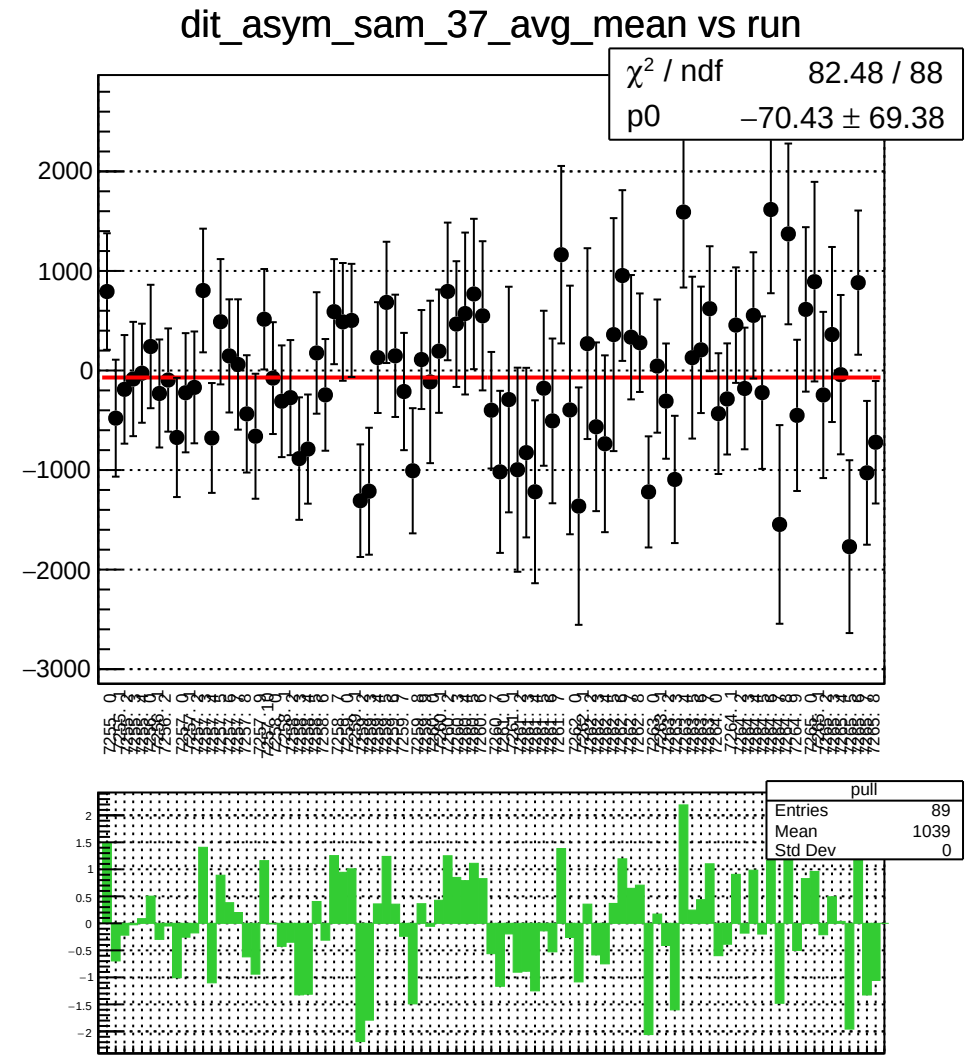

pull1D
Entries 89
Mean 0.01215
Std Dev 0.9874
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

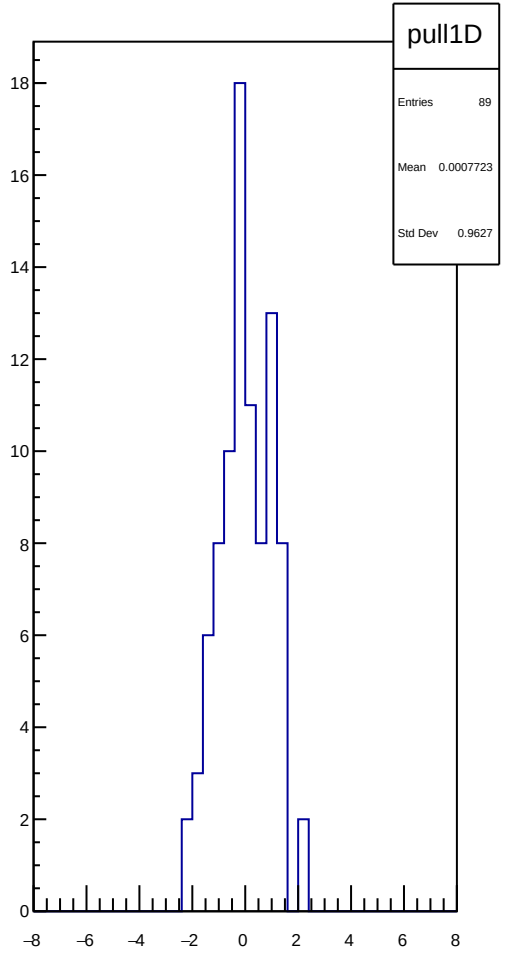

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.271e+04 / 88
p0 51.5 ± 0.03971
65
60
55
50
45

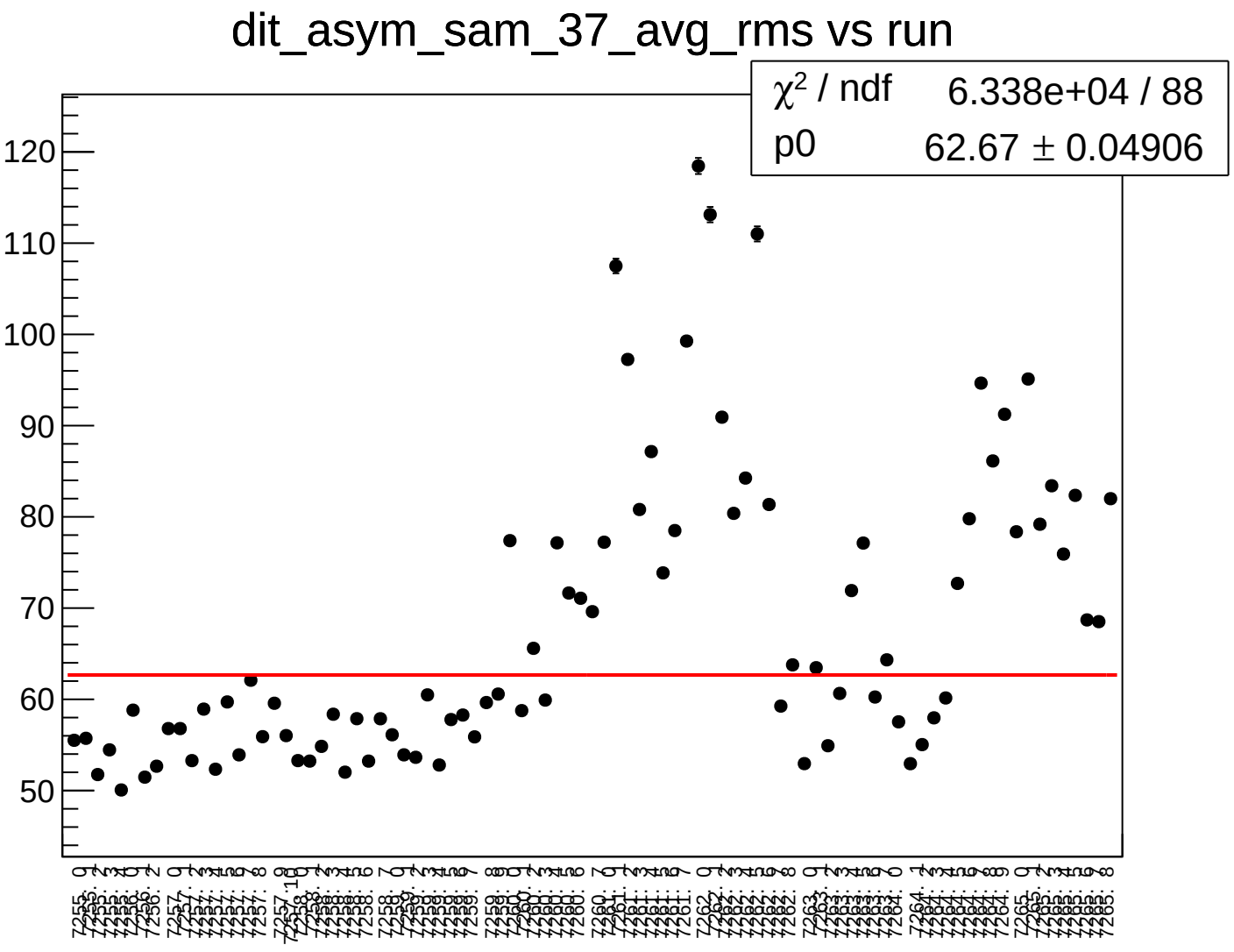

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.34 / 88
p0 −692.8 ± 441.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −325.7
Std Dev 0
3
2
1
0
−1
−2

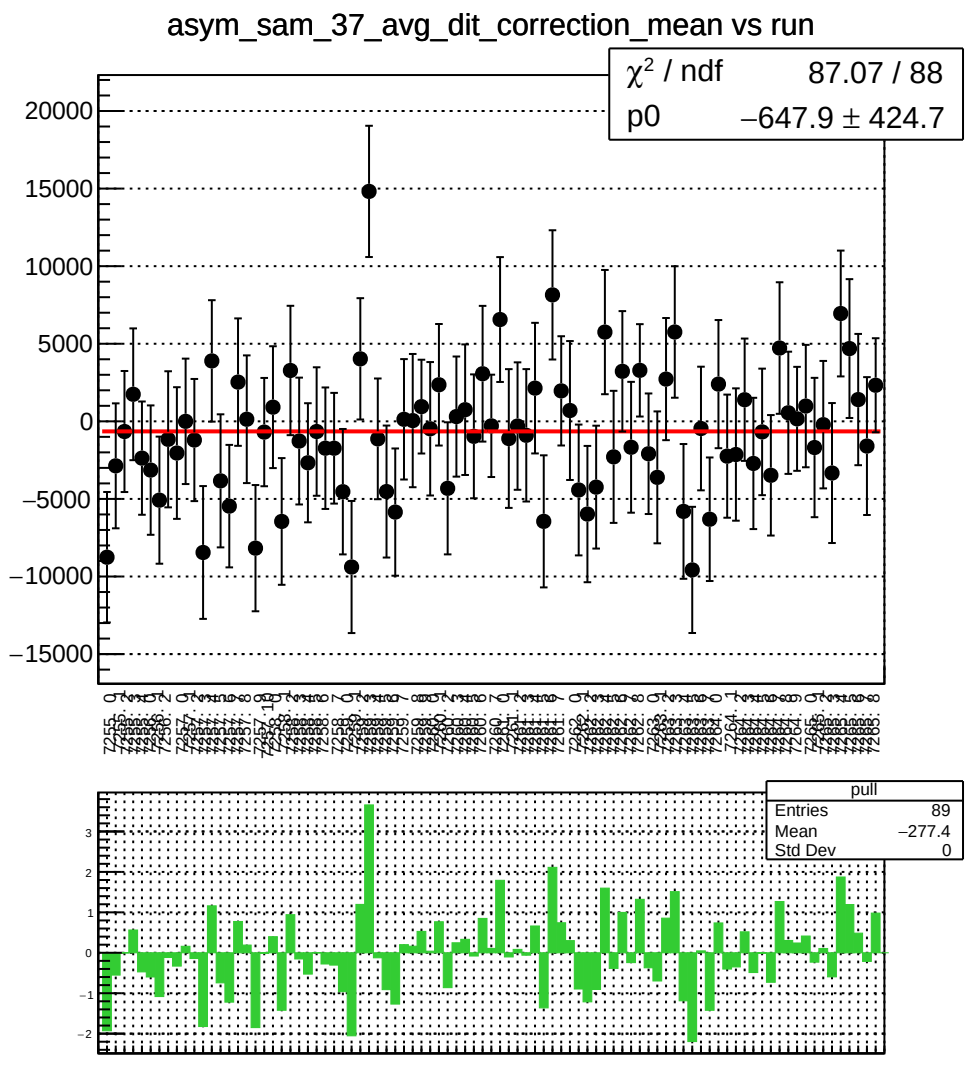

pull1D
Entries 89
Mean −0.01325
Std Dev 0.9848
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

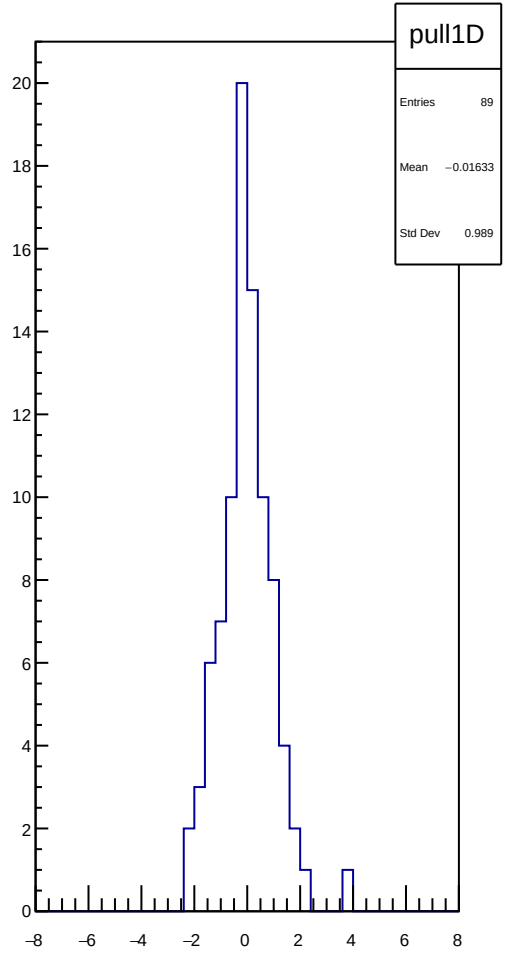

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 5215 / 88
p0 406 ± 0.3123
480
460
440
420
400
380
360

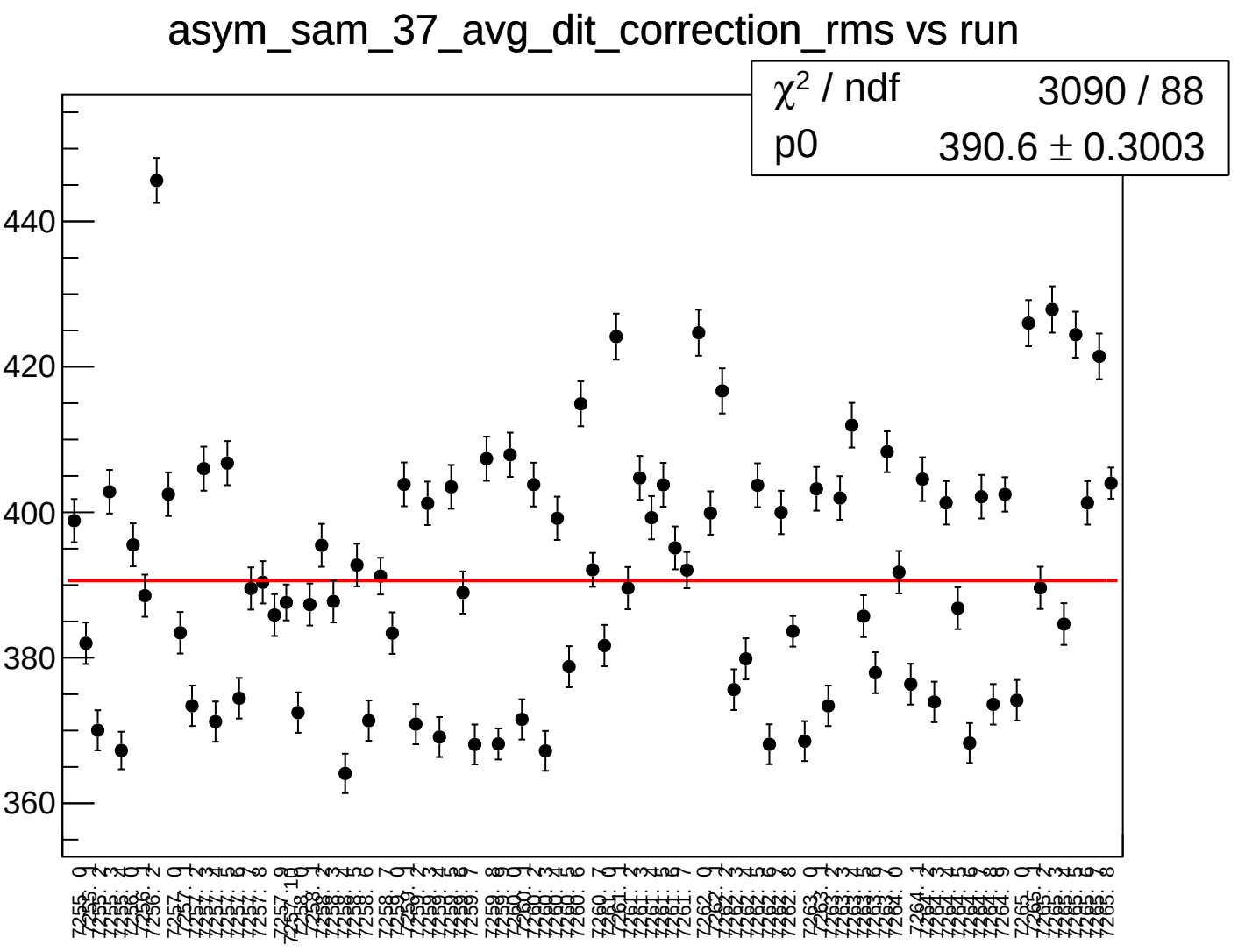

dit_asym_sam_37_avg_mean vs run
χ² / ndf 82.48 / 88
p0 −70.43 ± 69.38
pull
Entries 89
Mean 1039
Std Dev 0

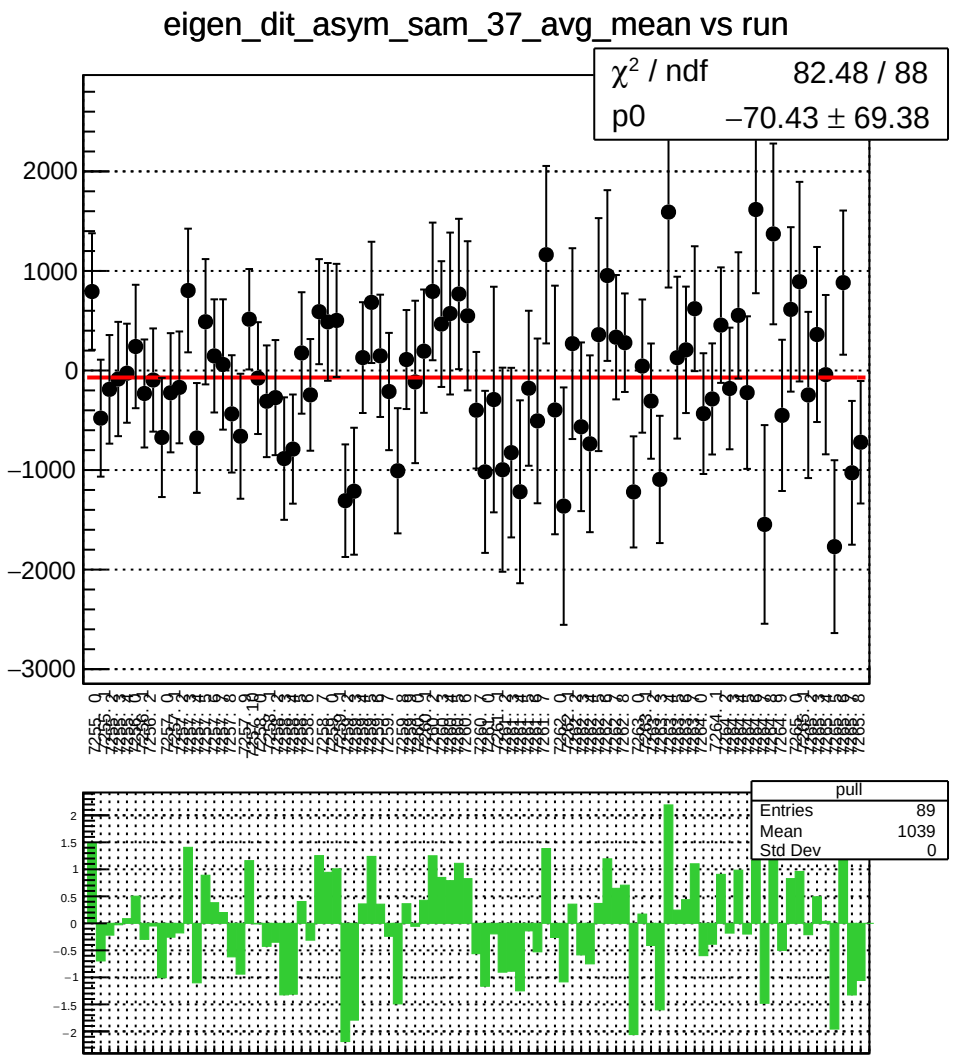

pull1D
Entries 89
Mean 0.0007723
Std Dev 0.9627

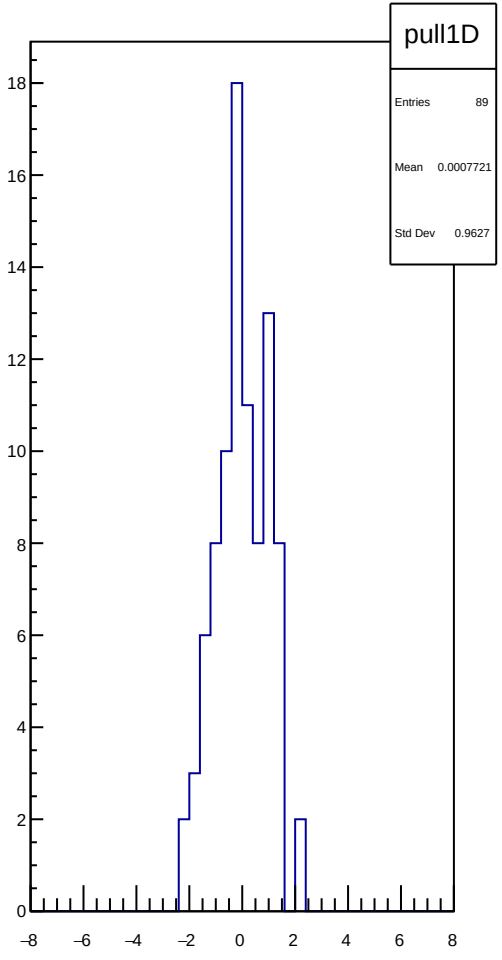

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 6.338e+04 / 88
p0 62.67 ± 0.04906
120
110
100
90
80
70
60
50

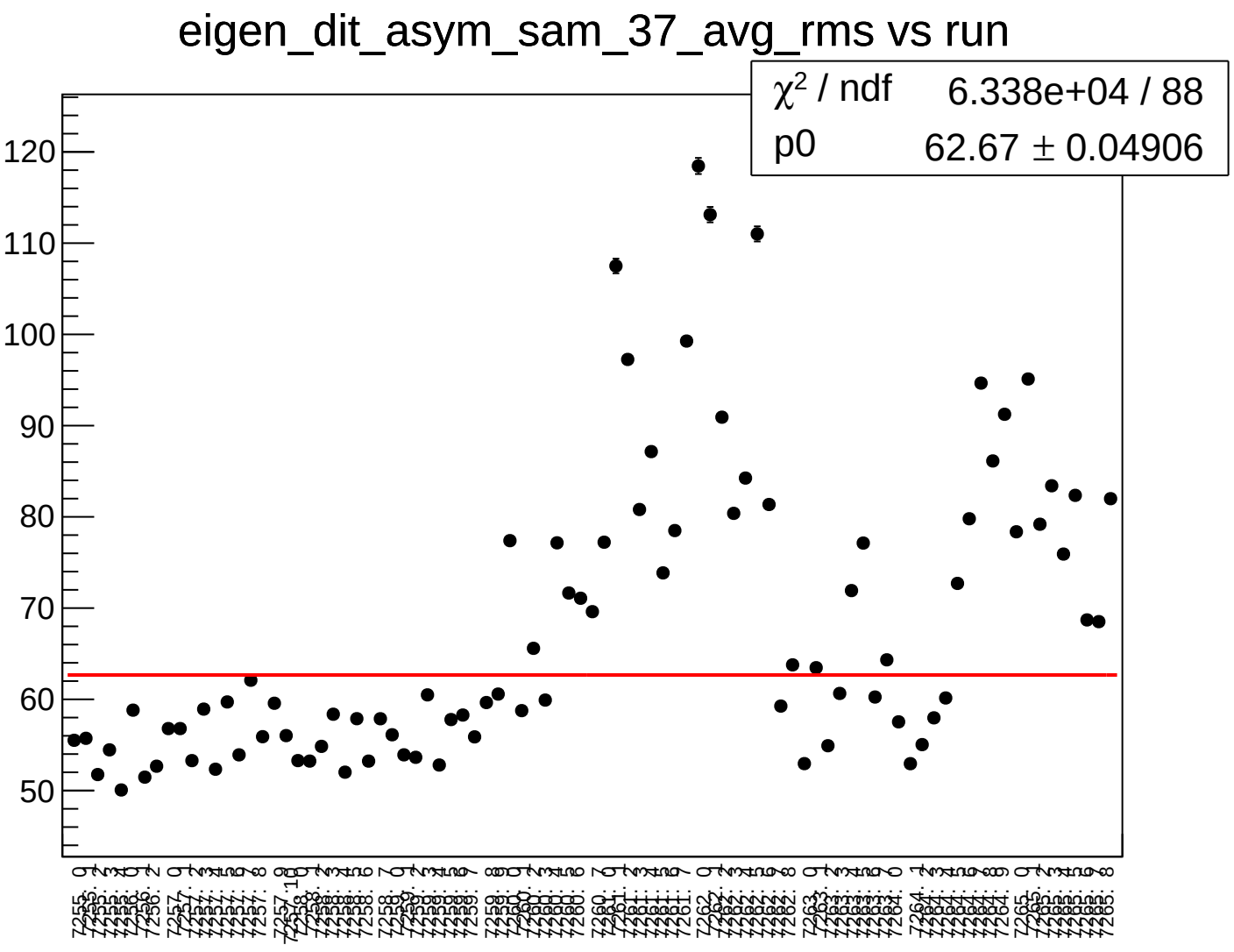

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 87.07 / 88
p0 −647.9 ± 424.7
pull
Entries 89
Mean −277.4
Std Dev 0

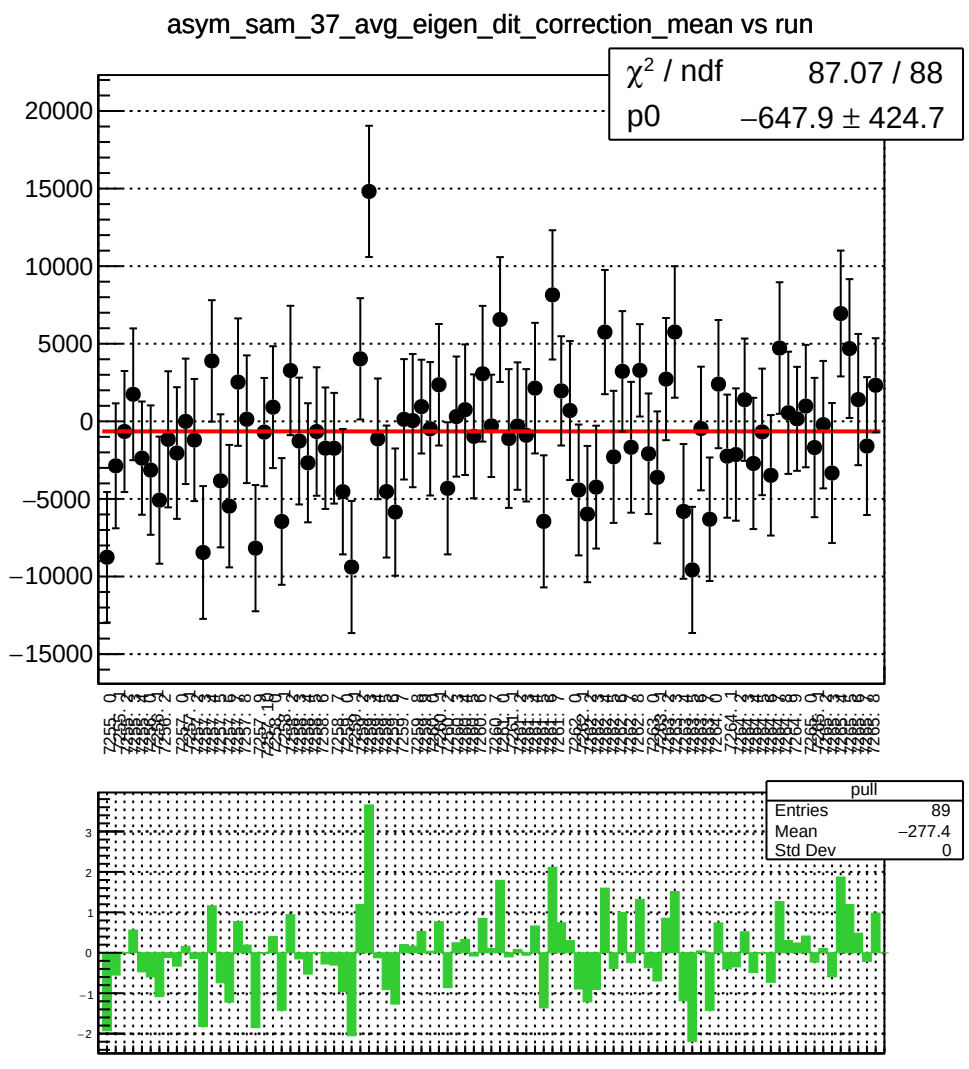

pull1D
Entries 89
Mean −0.01633
Std Dev 0.989

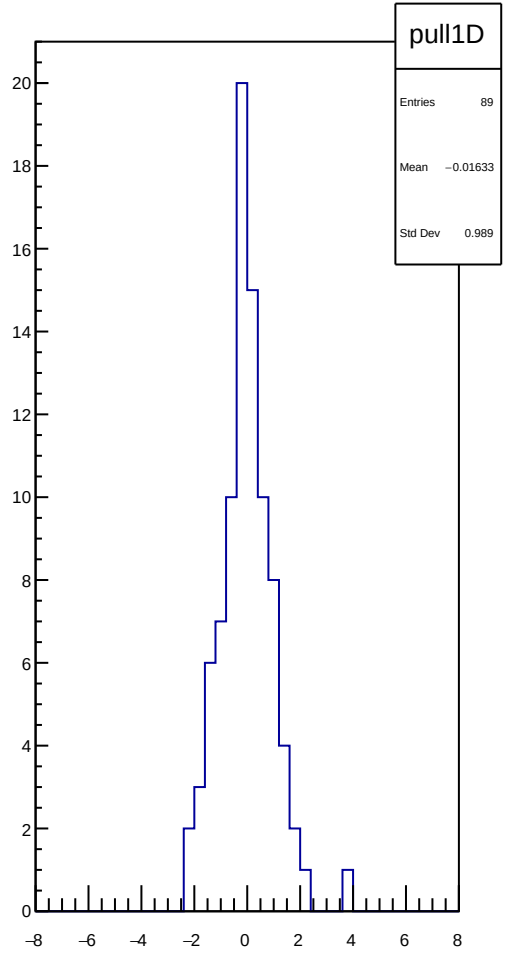

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 3090 / 88
p0 390.6 ± 0.3003
440
420
400
380
360

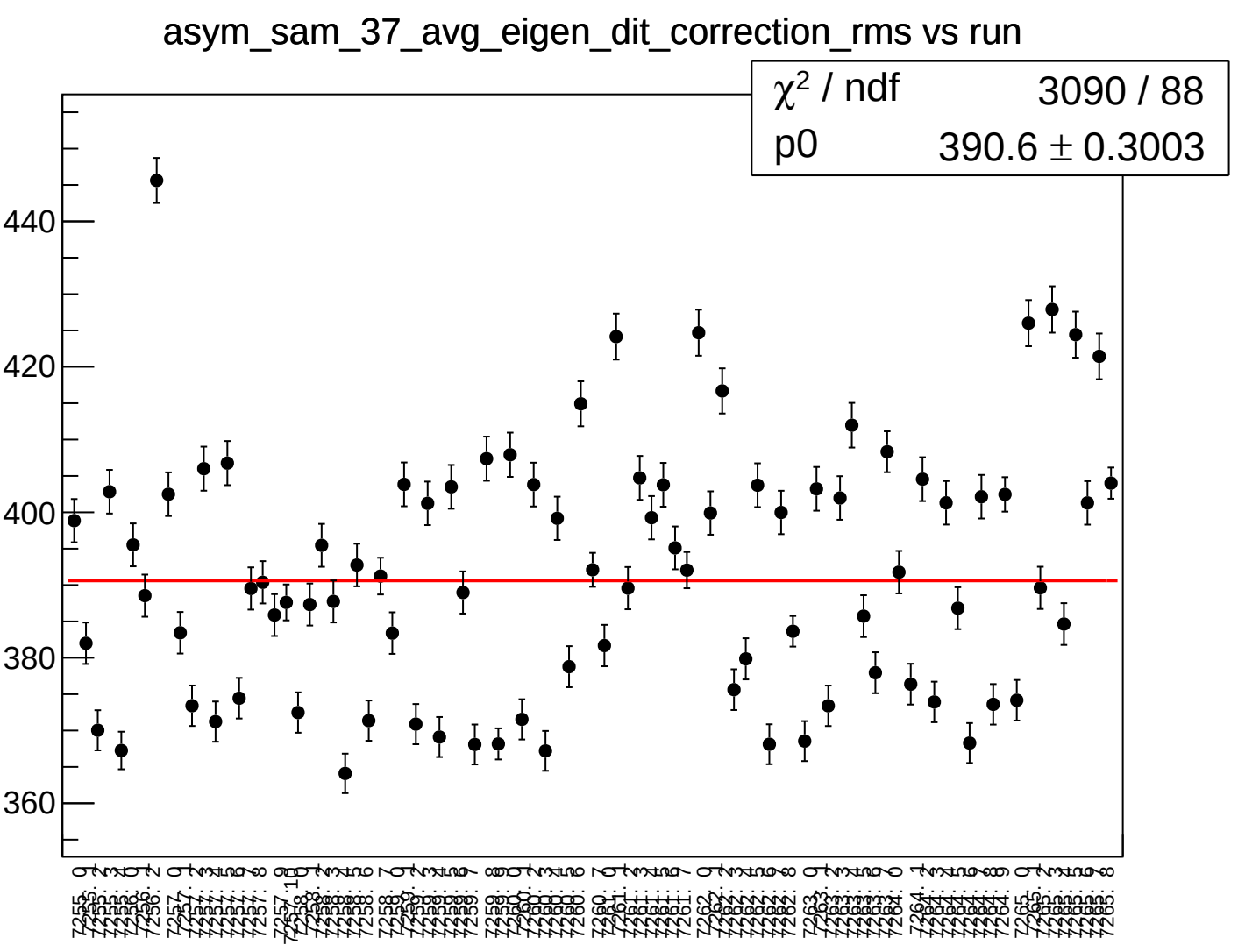

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 82.48 / 88
p0 −70.43 ± 69.38
pull
Entries 89
Mean 1039
Std Dev 0

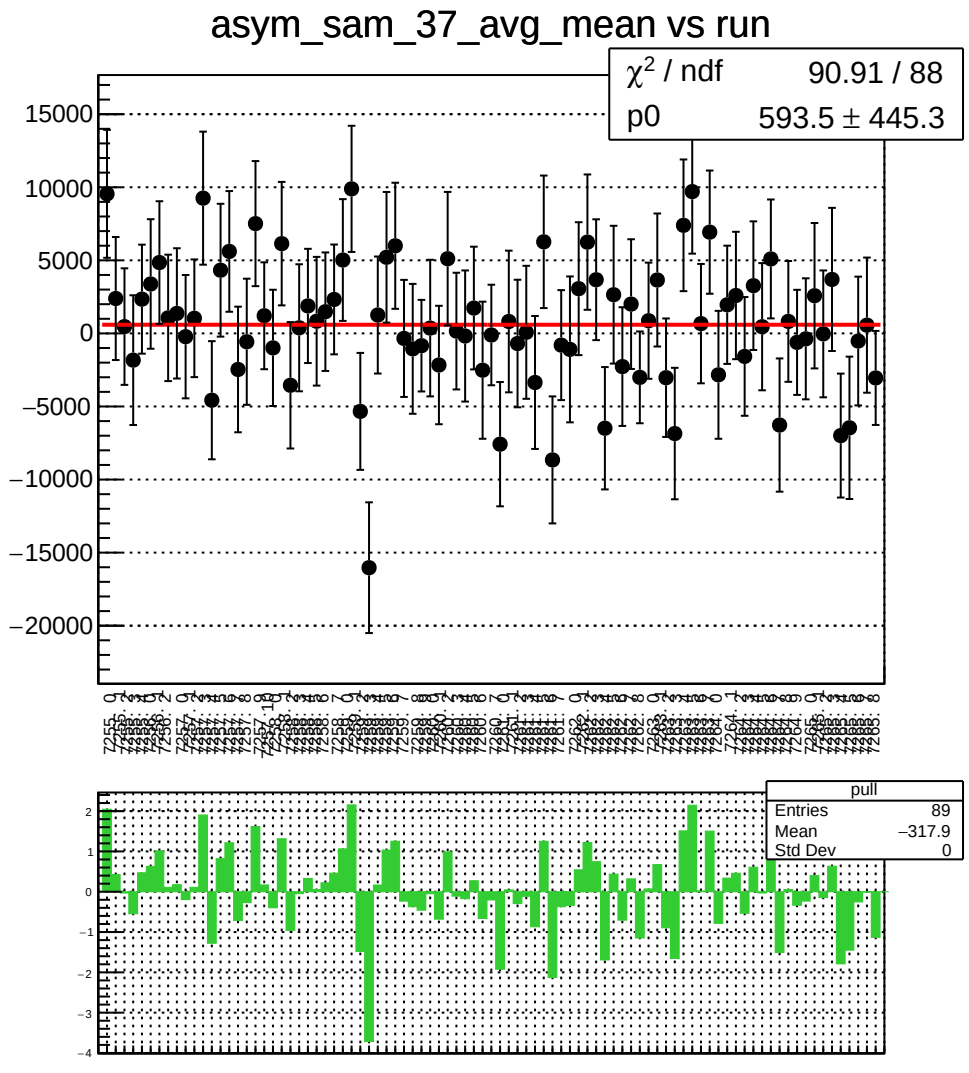

pull1D
Entries 89
Mean 0.0007721
Std Dev 0.9627

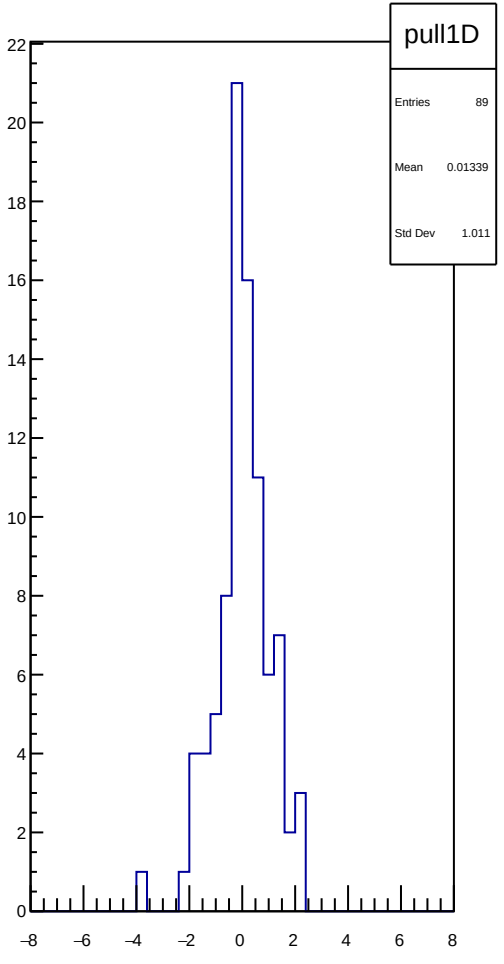

eigen_dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 6.338e+04 / 88
p0 62.67 ± 0.04906
120
110
100
90
80
70
60
50

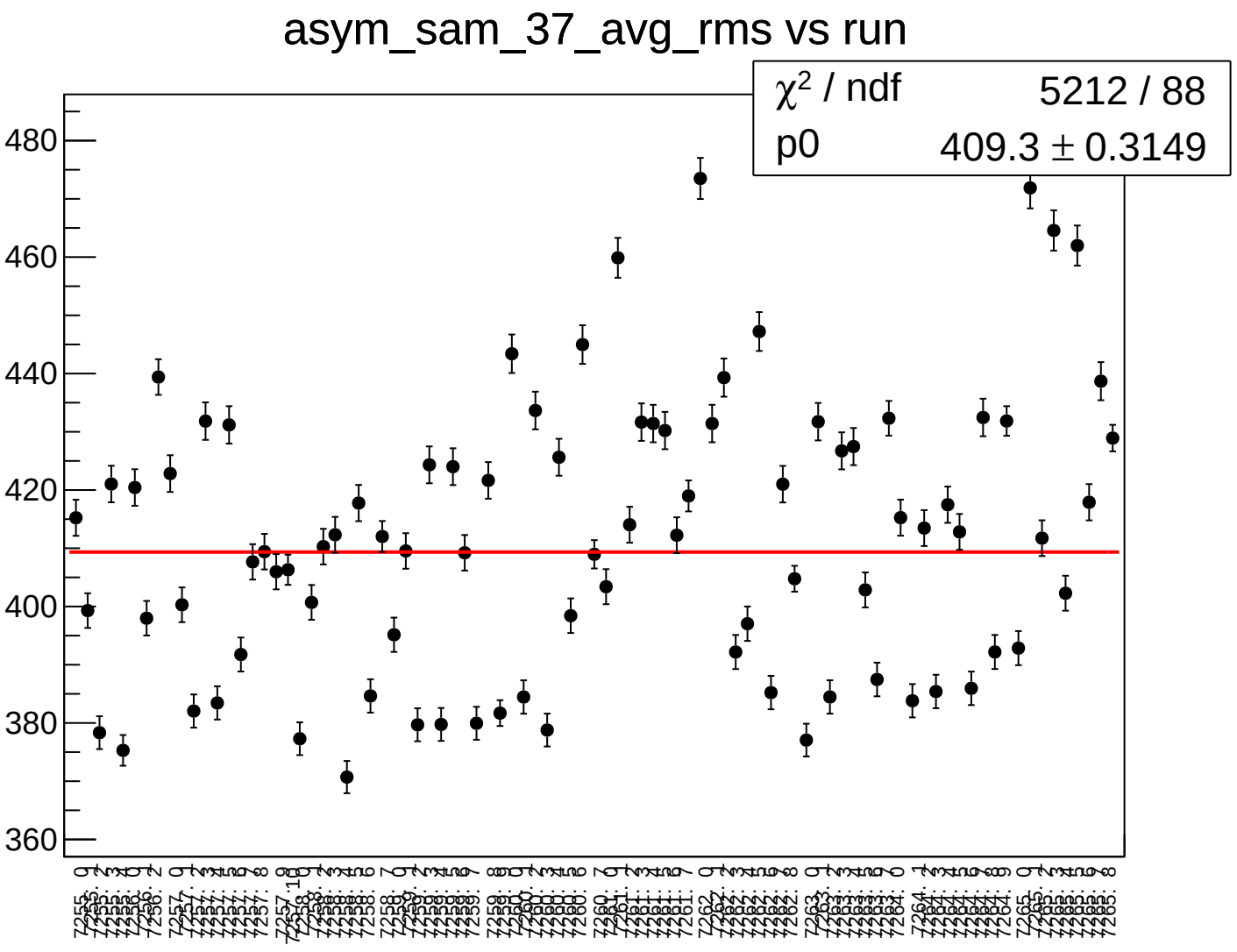

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.07 / 88
p0 −647.9 ± 424.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −277.4
Std Dev 0
3
2
1
0
−1
−2

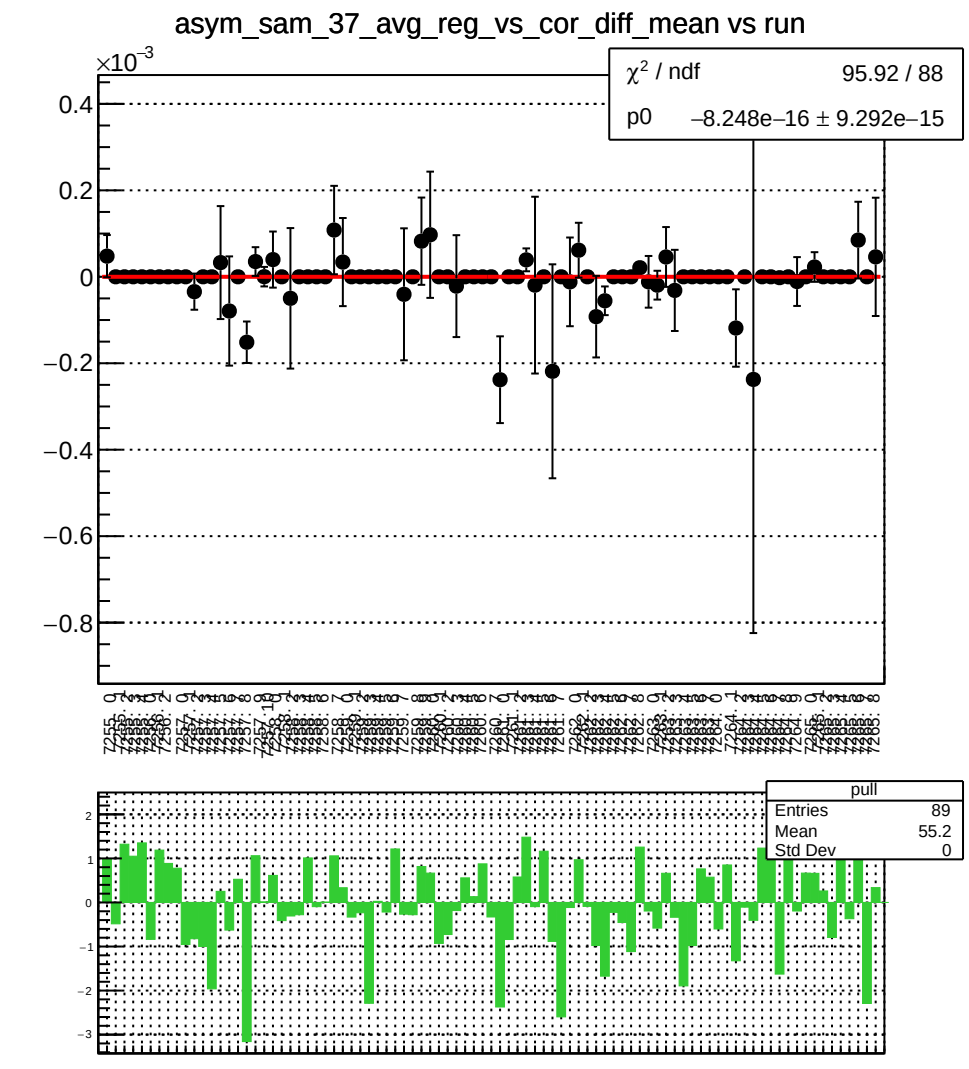

pull1D
Entries 89
Mean −0.01633
Std Dev 0.989
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

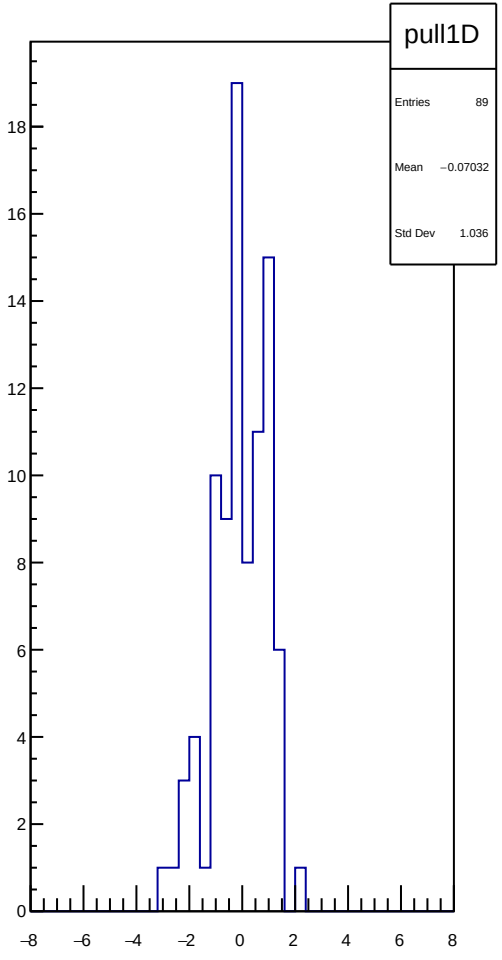

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 3090 / 88
p0 390.6 ± 0.3003
440
420
400
380
360

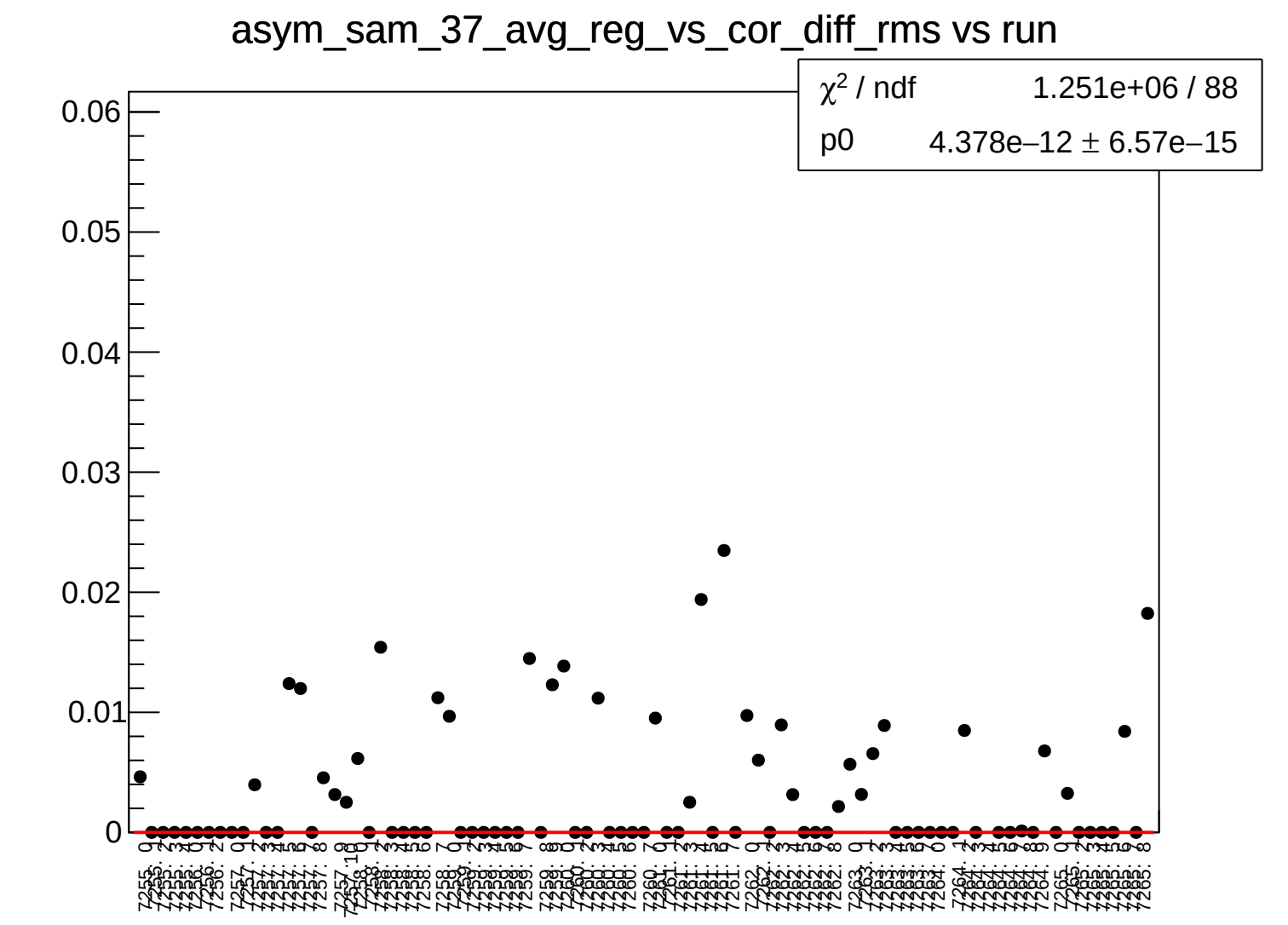

asym_sam_37_avg_mean vs run
χ² / ndf 90.91 / 88
p0 593.5 ± 445.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −317.9
Std Dev 0
2
1
0
−1
−2
−3
−4

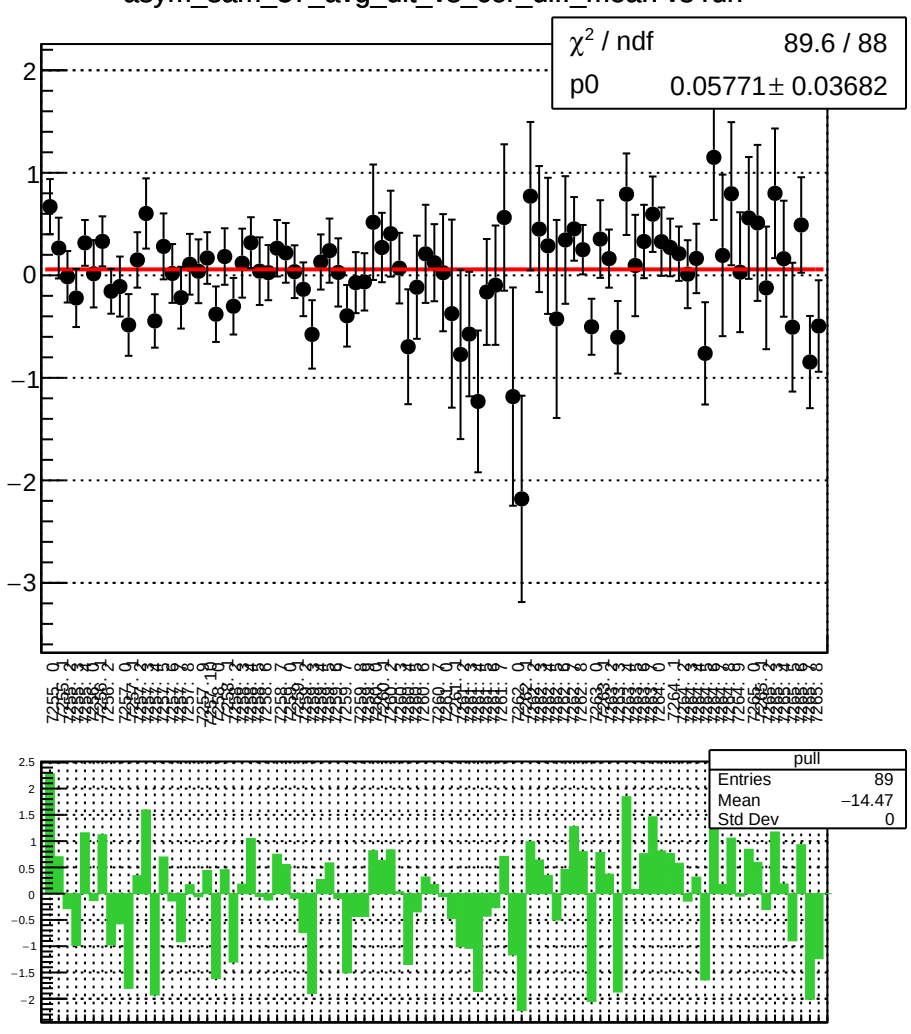

pull1D
Entries 89
Mean 0.01339
Std Dev 1.011
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

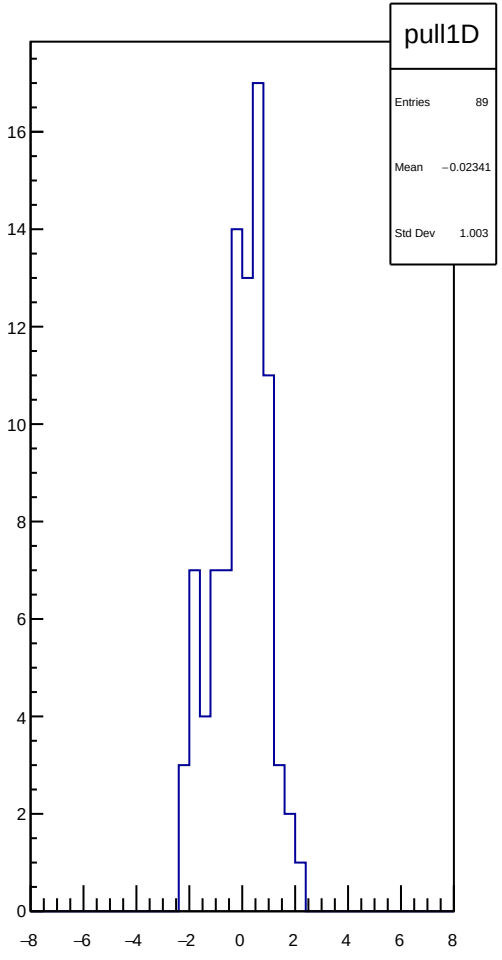

asym_sam_37_avg_rms vs run
χ² / ndf 5212 / 88
p0 409.3 ± 0.3149
480
460
440
420
400
380
360

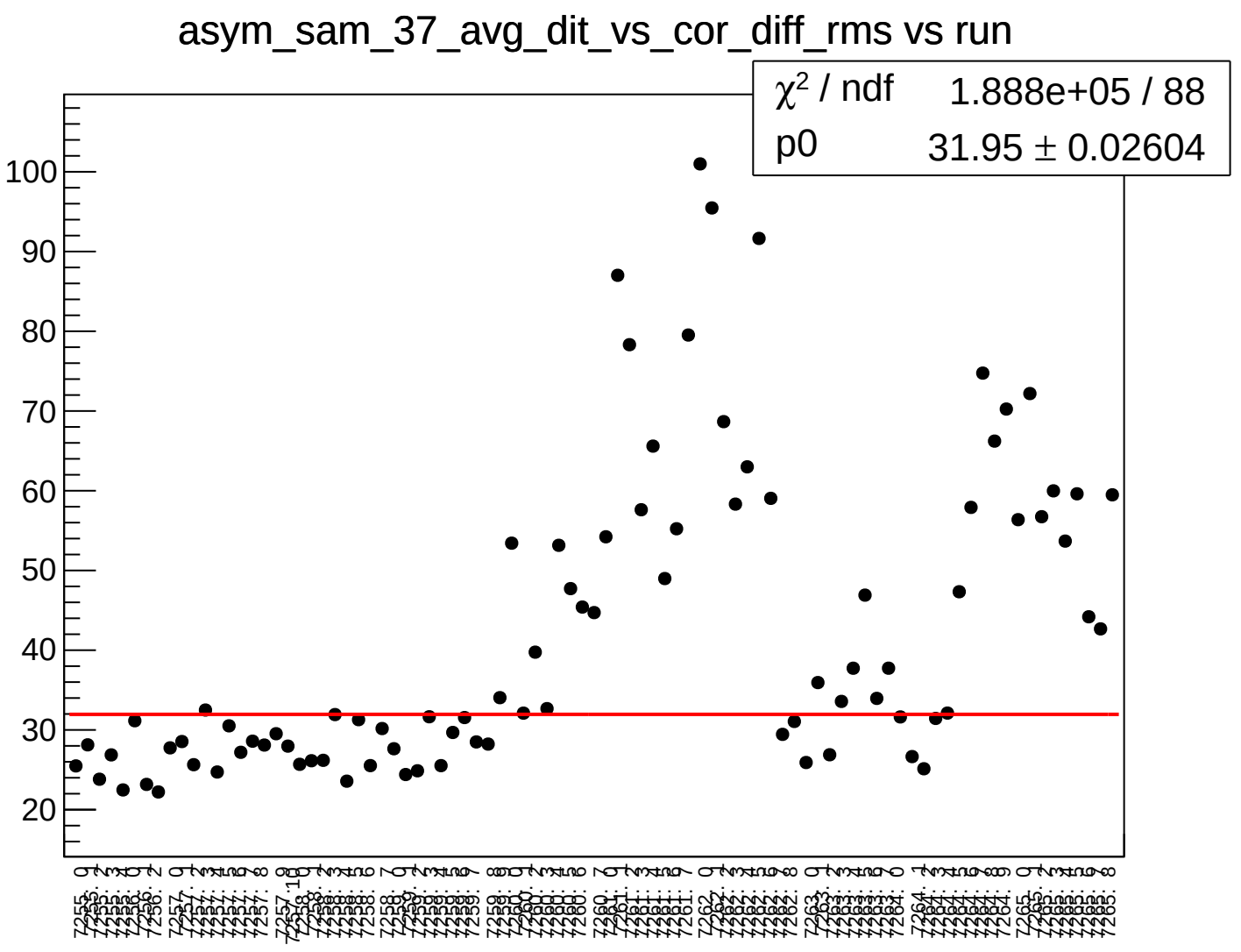

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 95.92 / 88
p0 −8.248e−16 ± 9.292e−15
pull
Entries 89
Mean 55.2
Std Dev 0

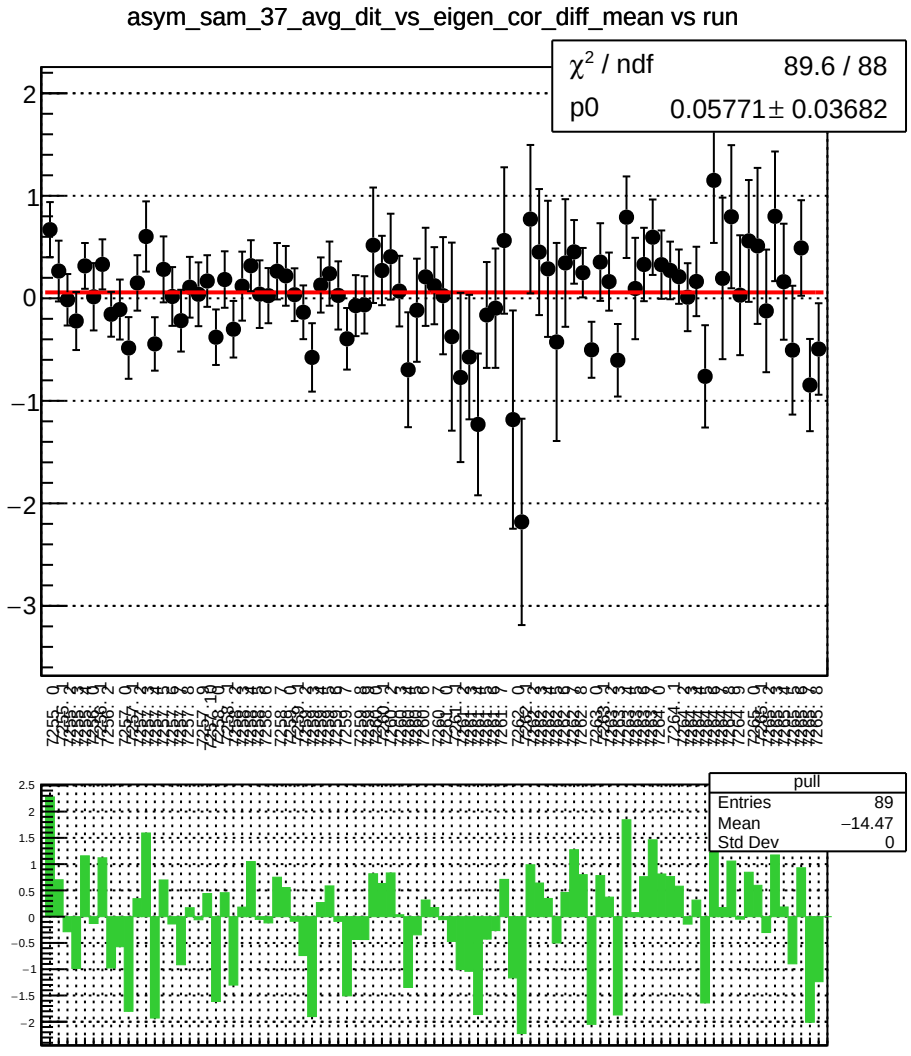

pull1D
Entries 89
Mean −0.07032
Std Dev 1.036

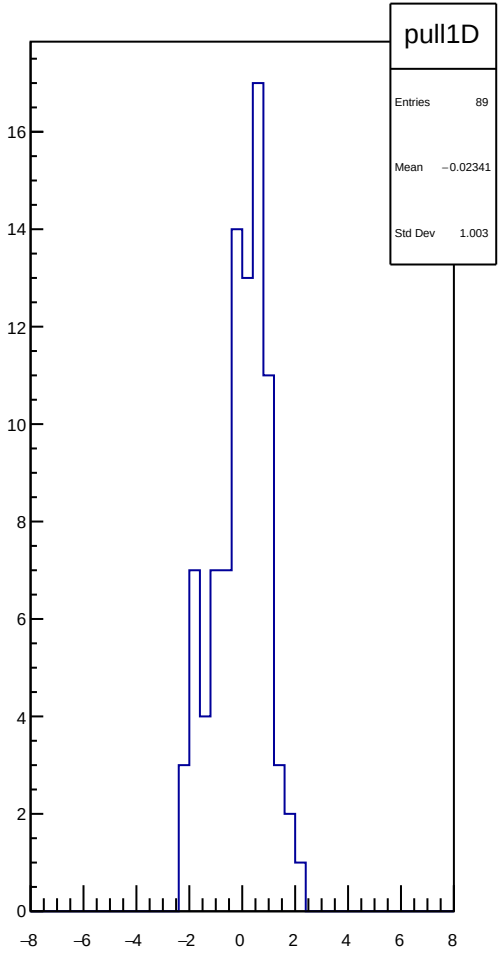

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.251e+06 / 88
p0 4.378e−12 ± 6.57e−15
0.06
0.05
0.04
0.03
0.02
0.01
0

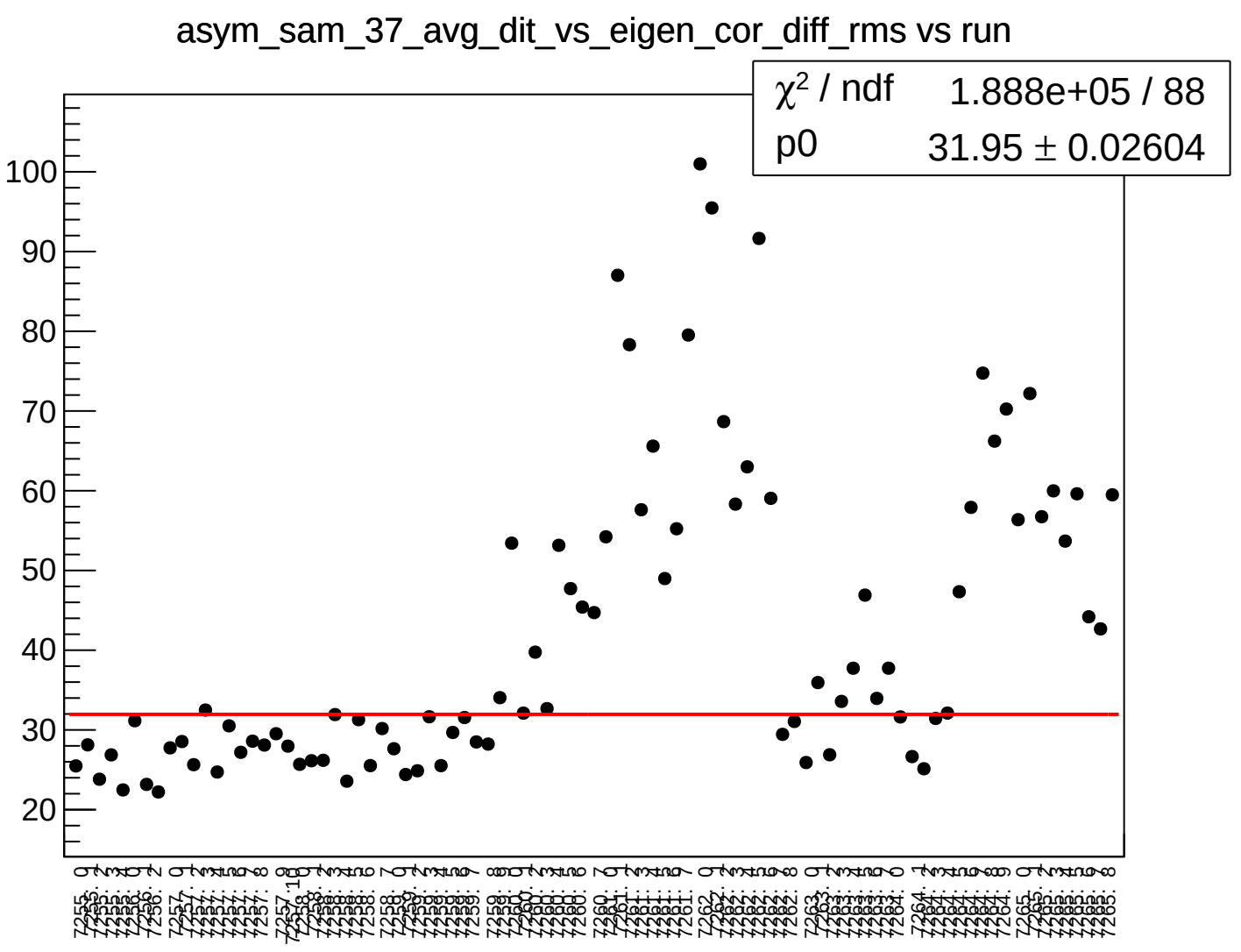

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.6 / 88
p0 0.05771 ± 0.03682
pull
Entries 89
Mean −14.47
Std Dev 0

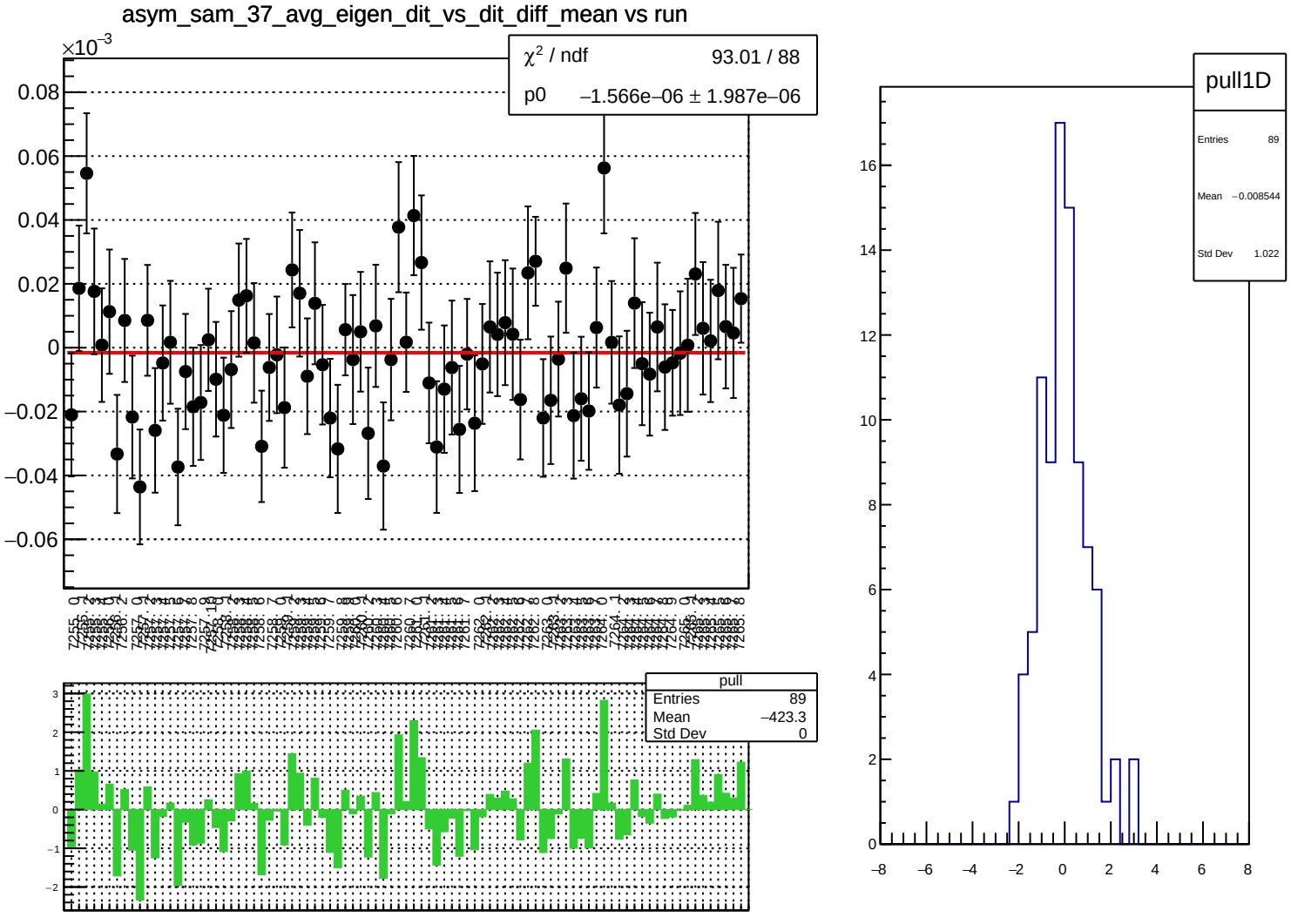

pull1D
Entries 89
Mean −0.02341
Std Dev 1.003

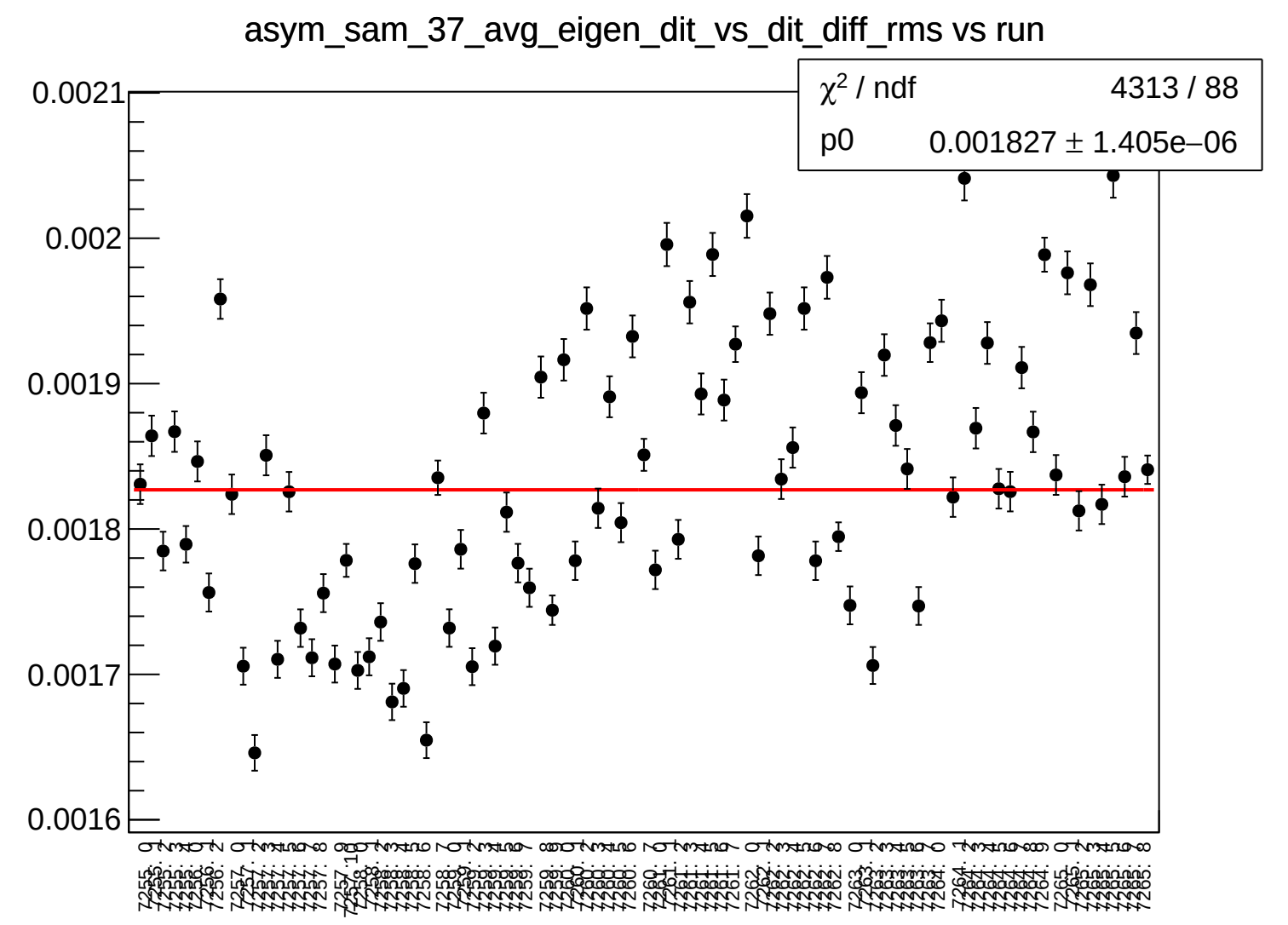

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.888e+05 / 88
p0 31.95 ± 0.02604
100
90
80
70
60
50
40
30
20

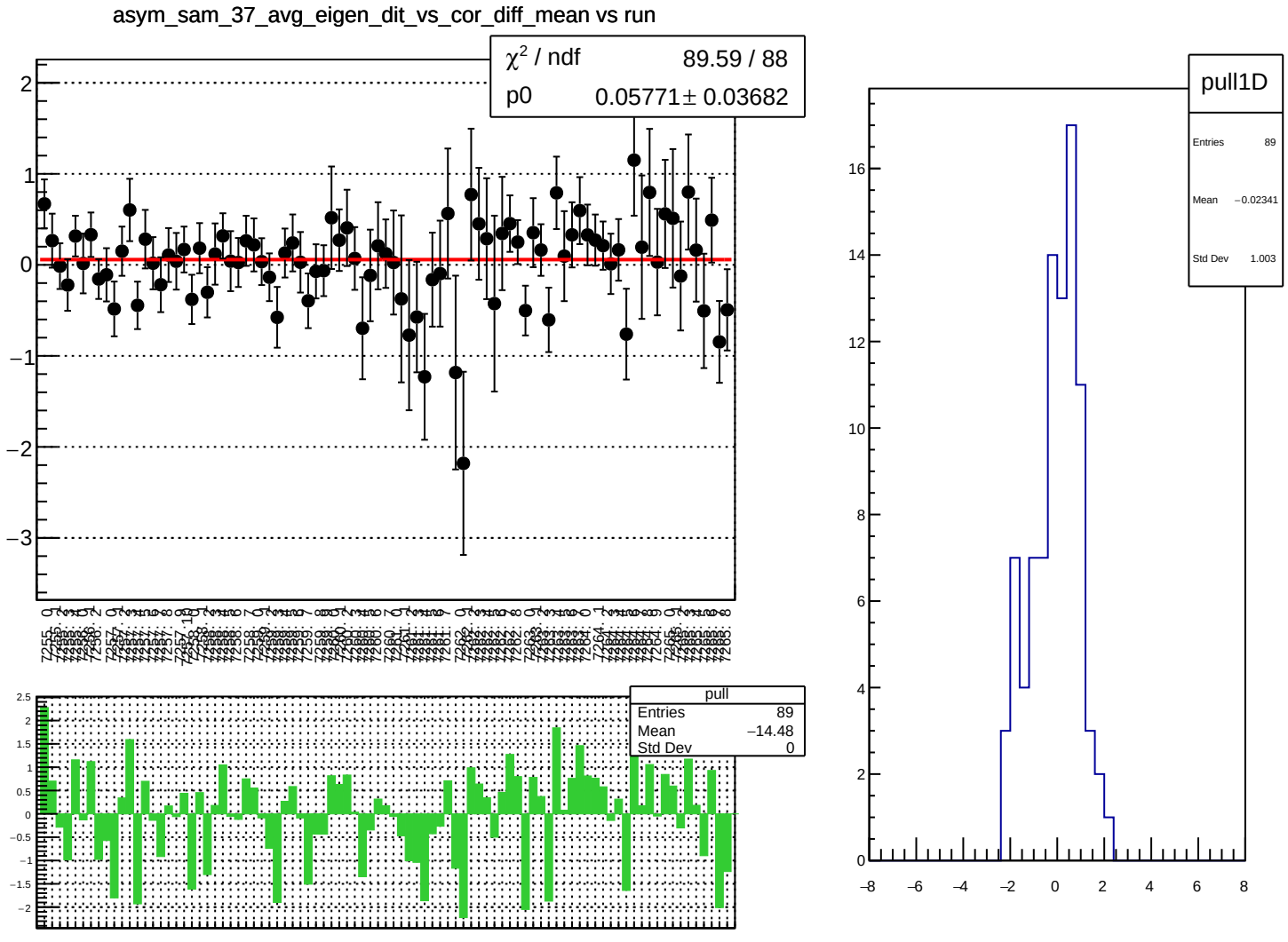

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.6 / 88
p0 0.05771 ± 0.03682
pull
Entries 89
Mean −14.47
Std Dev 0

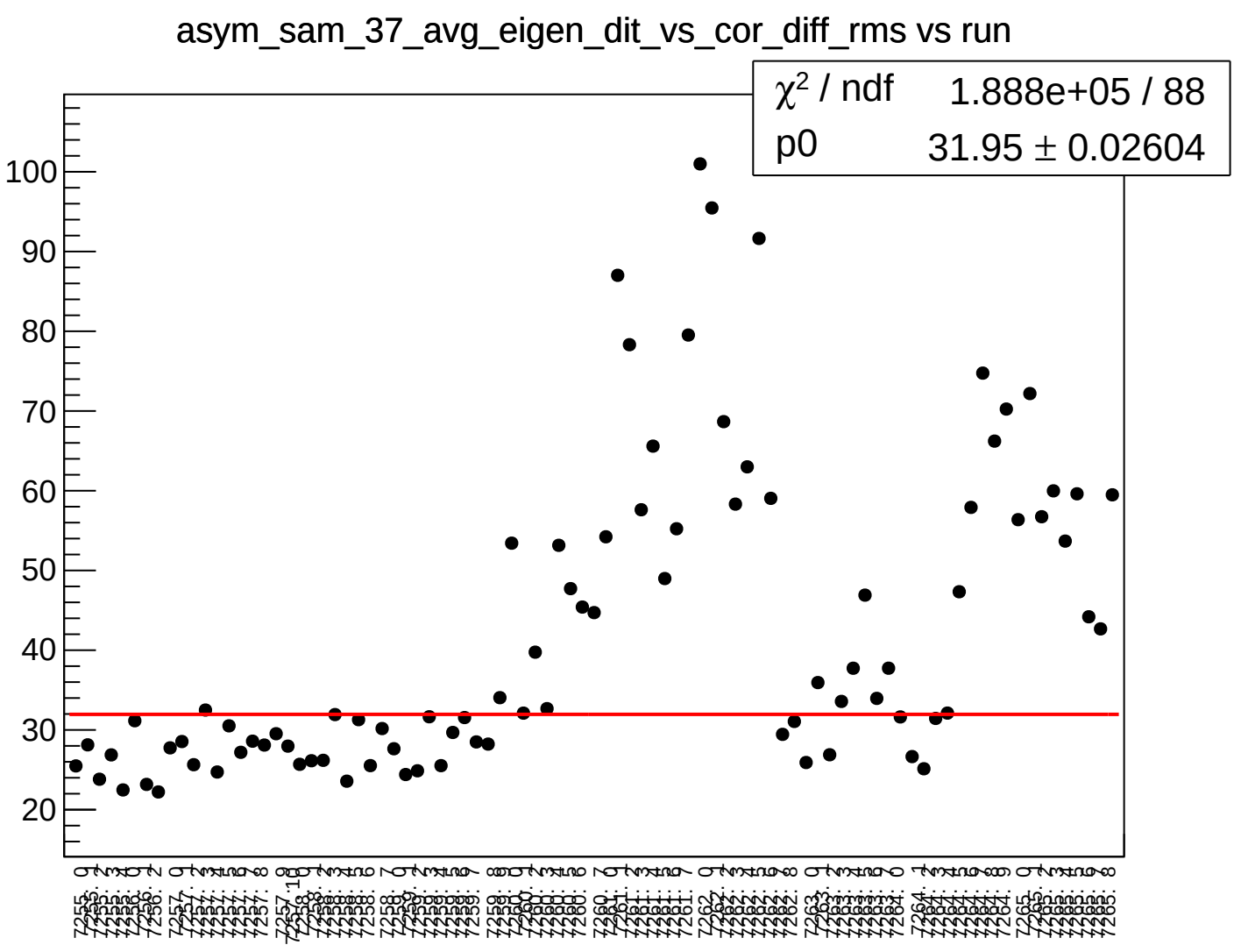

pull1D
Entries 89
Mean −0.02341
Std Dev 1.003

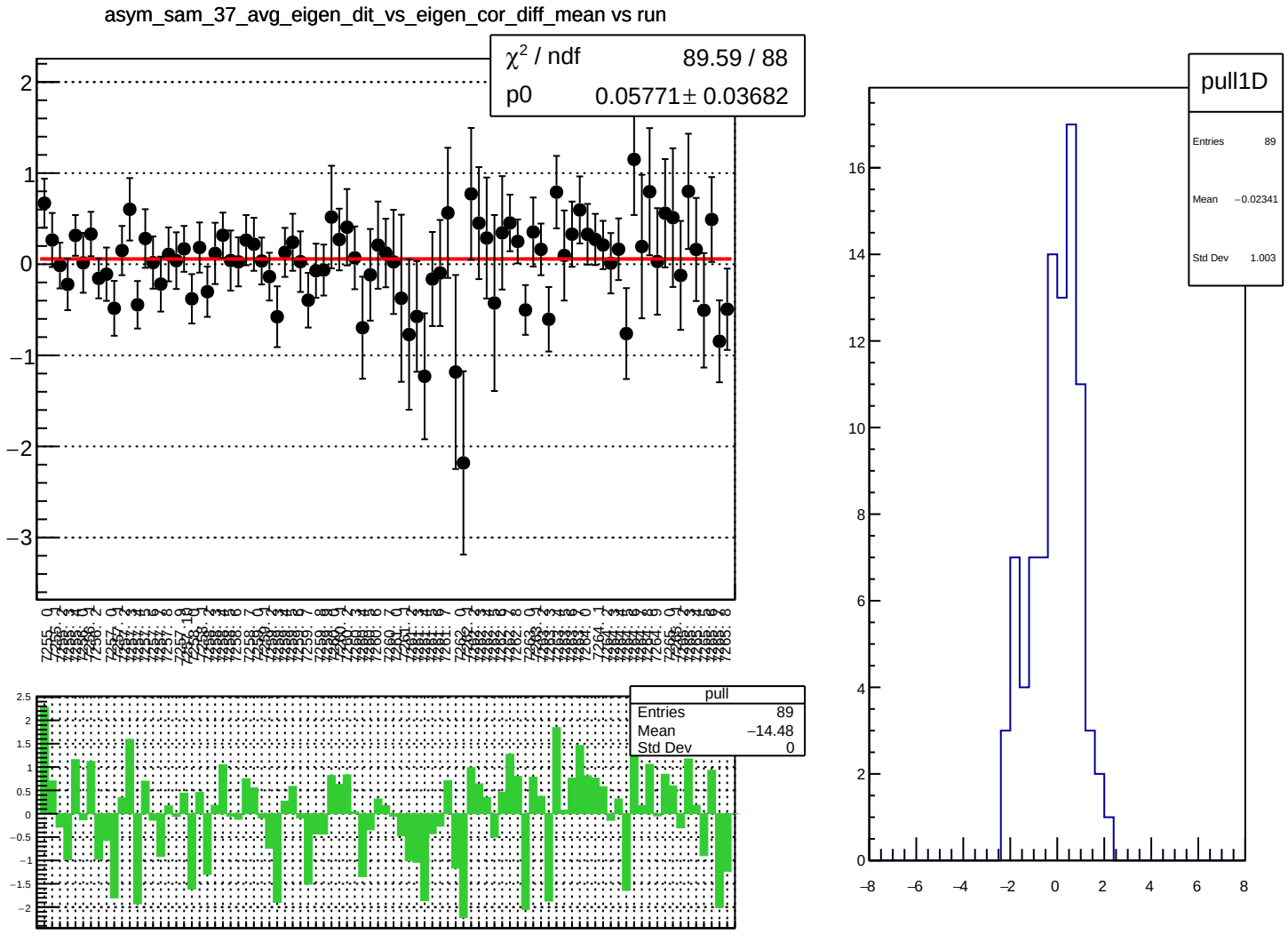

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.888e+05 / 88
p0 31.95 ± 0.02604
100
90
80
70
60
50
40
30
20

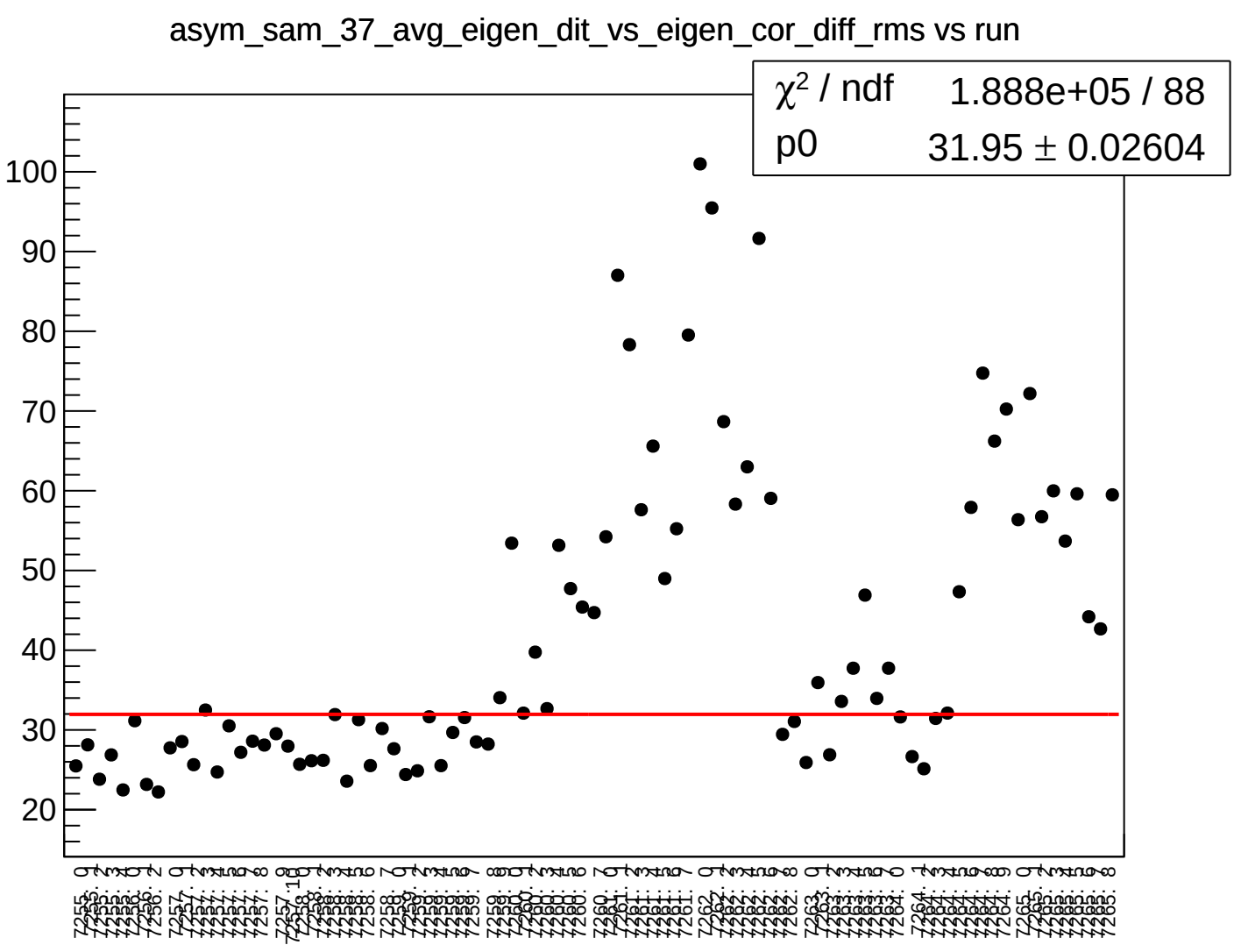

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.01 / 88
p0 −1.566e−06 ± 1.987e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean −423.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.008544
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

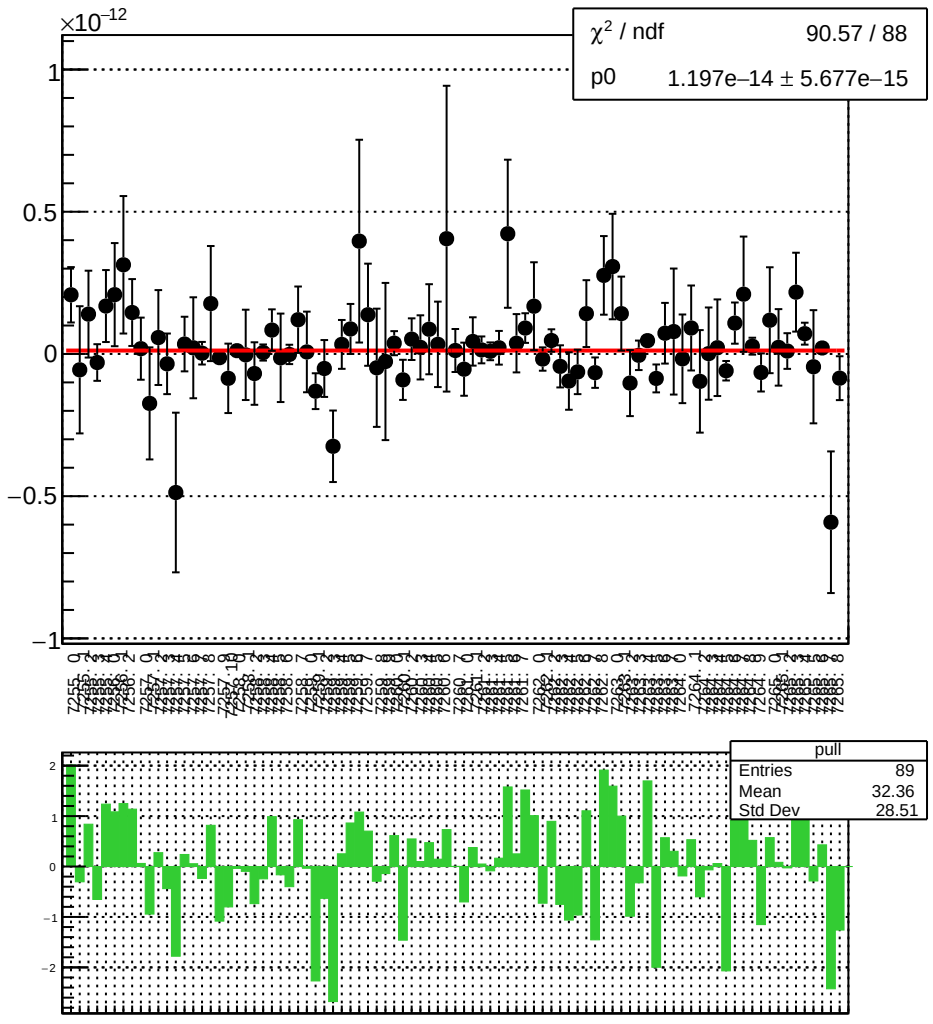

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4313 / 88
p0 0.001827 ± 1.405e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

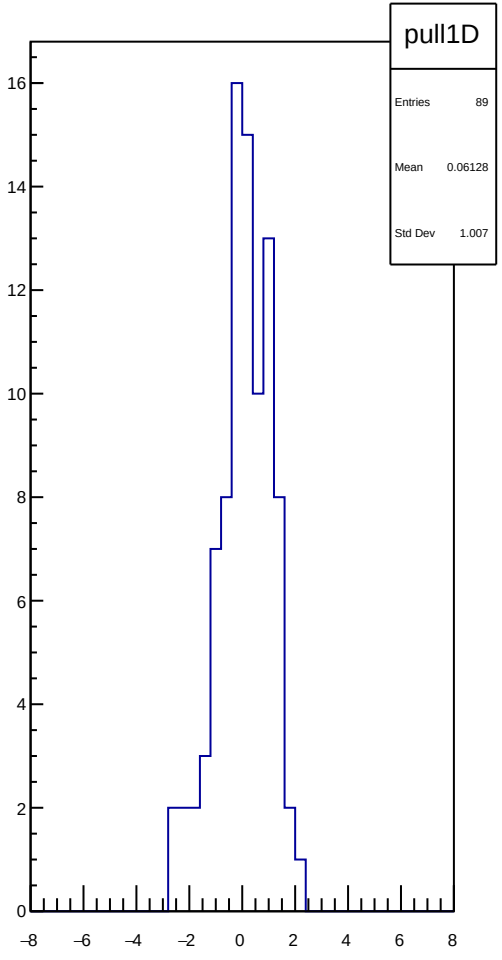

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.59 / 88
p0 0.05771 ± 0.03682
pull
Entries 89
Mean −14.48
Std Dev 0
pull1D
Entries 89
Mean −0.02341
Std Dev 1.003

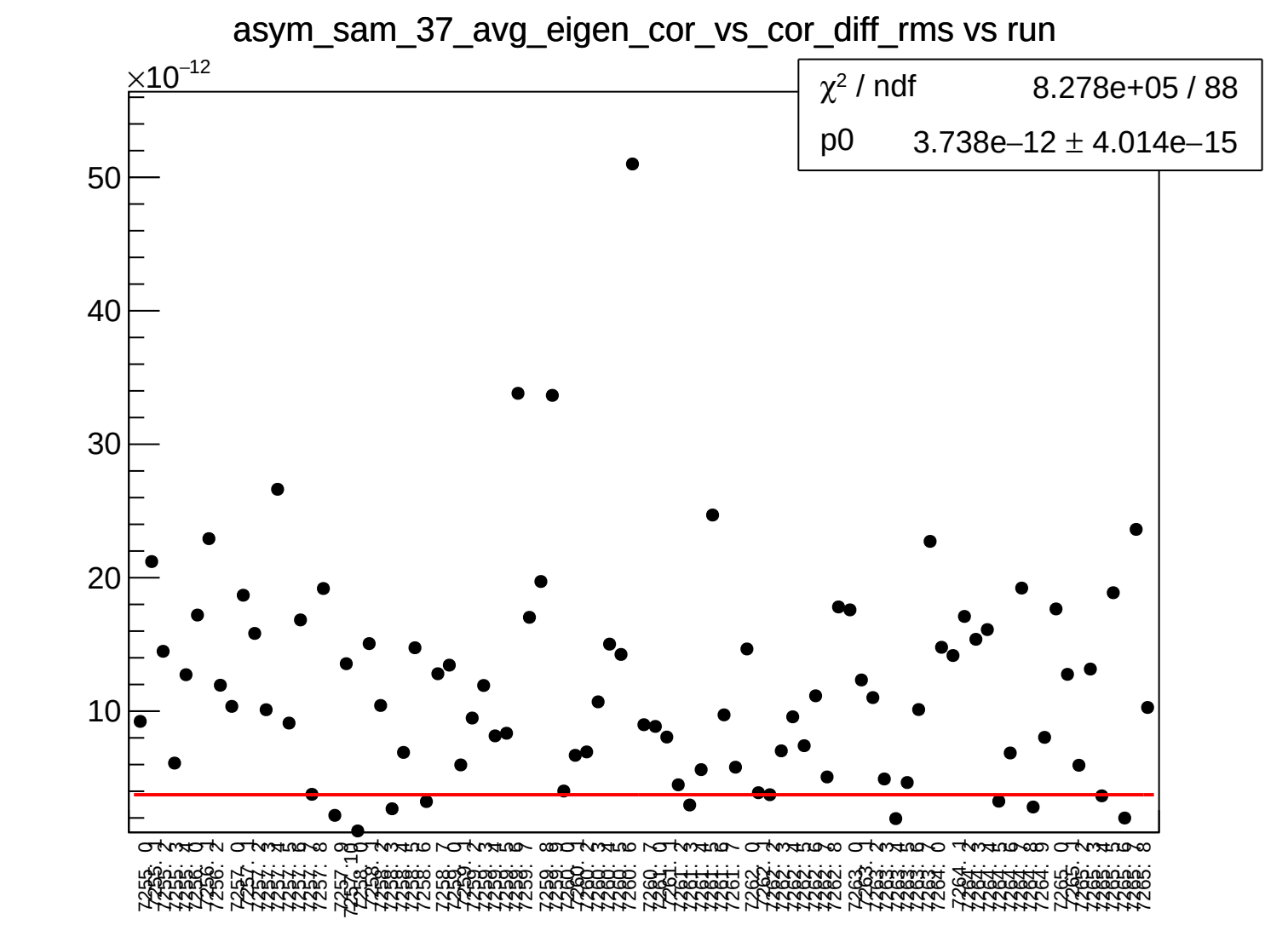

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.888e+05 / 88
p0 31.95 ± 0.02604
100
90
80
70
60
50
40
30
20

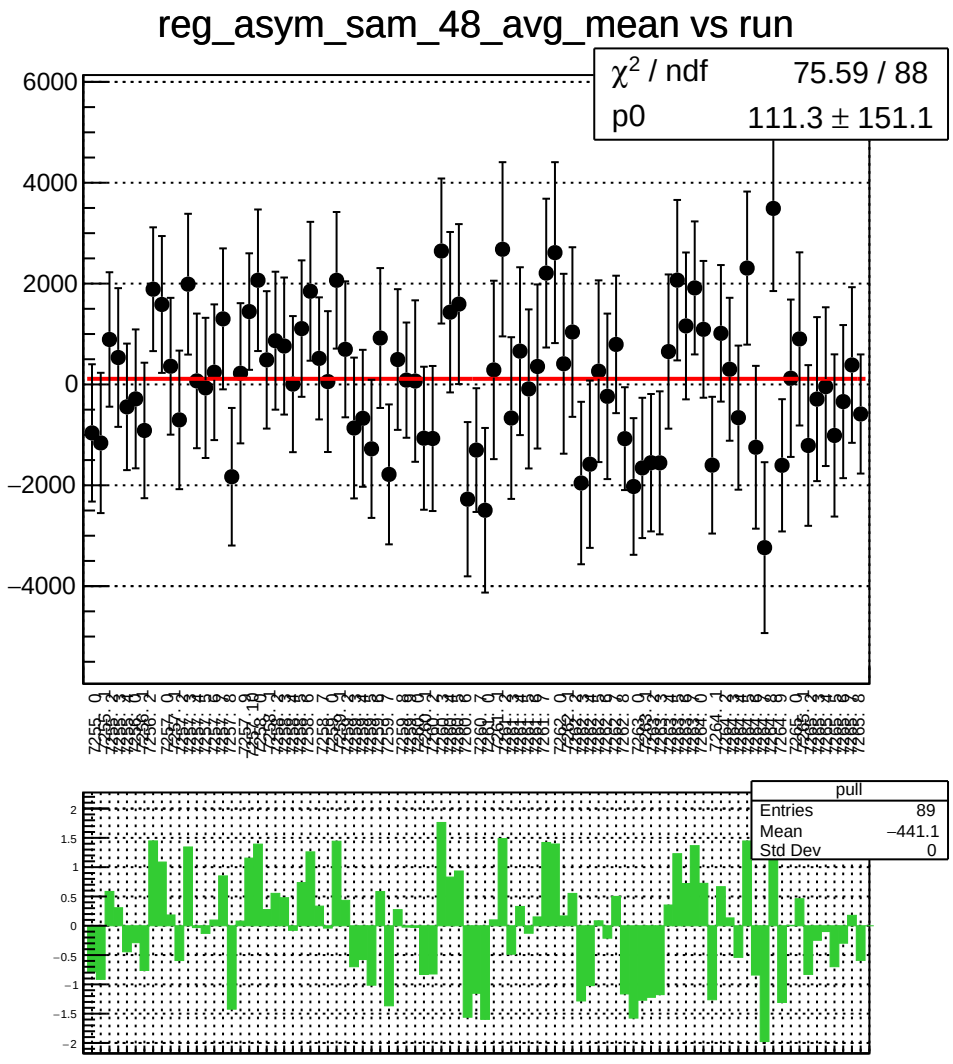

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.59 / 88
p0 0.05771 ± 0.03682
pull
Entries 89
Mean −14.48
Std Dev 0
pull1D
Entries 89
Mean −0.02341
Std Dev 1.003

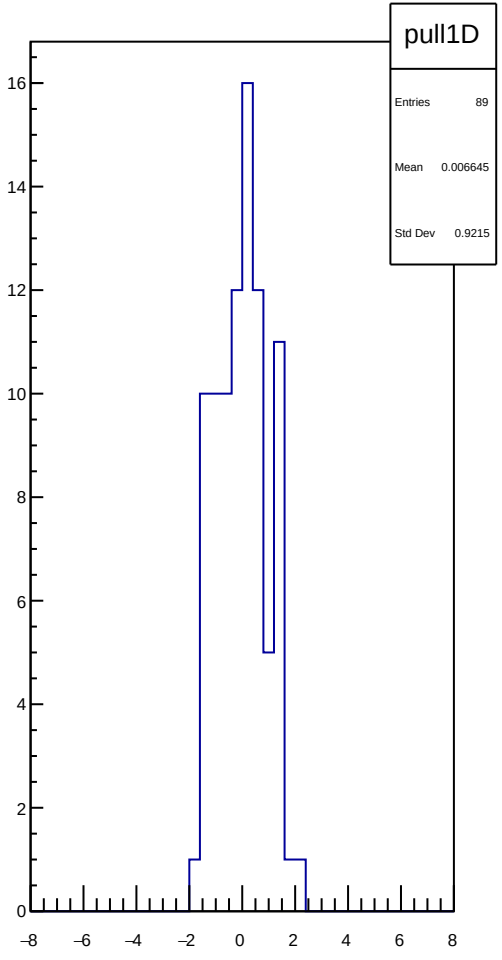

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.888e+05 / 88
p0 31.95 ± 0.02604
100
90
80
70
60
50
40
30
20

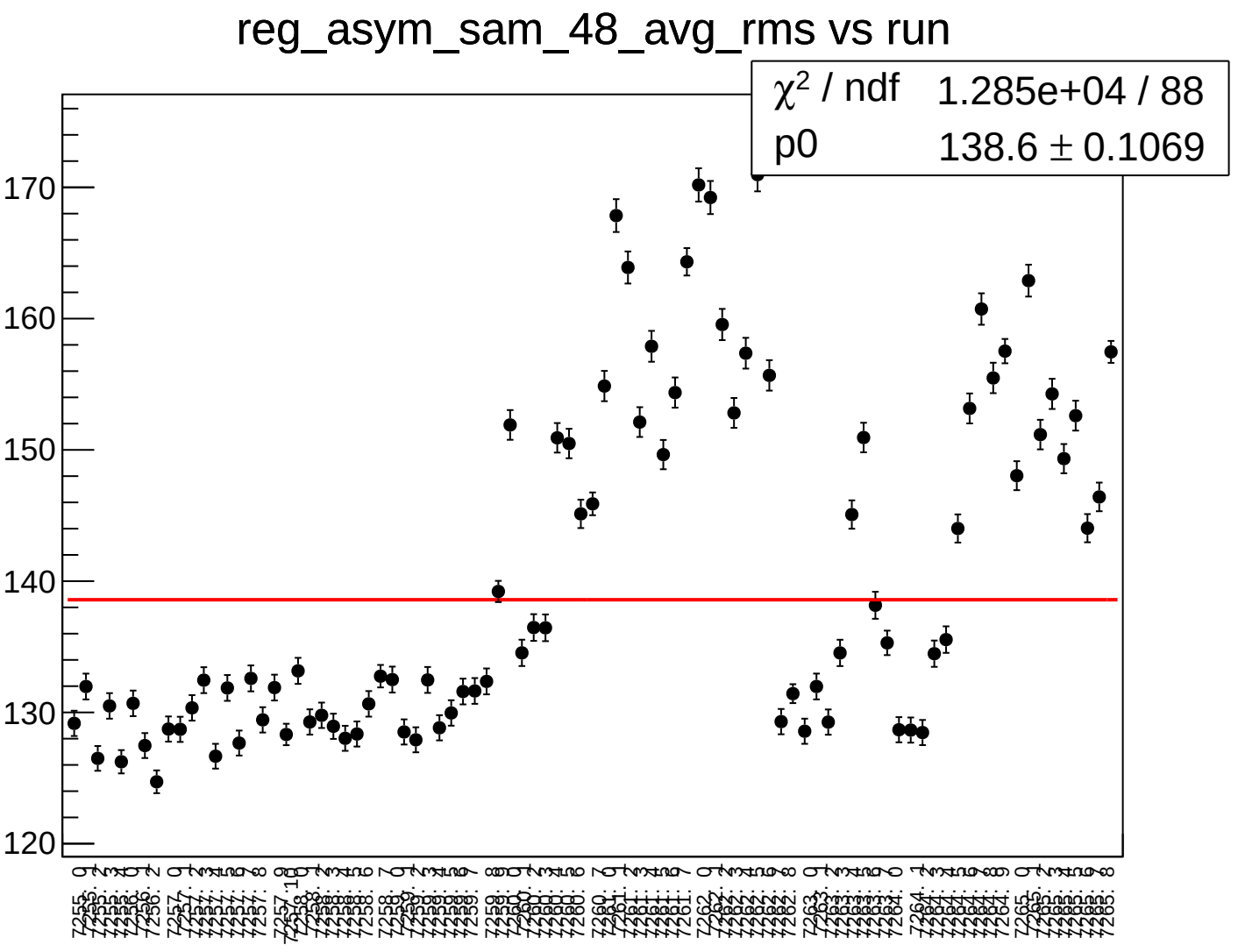

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.57 / 88
p0 1.197e−14 ± 5.677e−15
pull
Entries 89
Mean 32.36
Std Dev 28.51

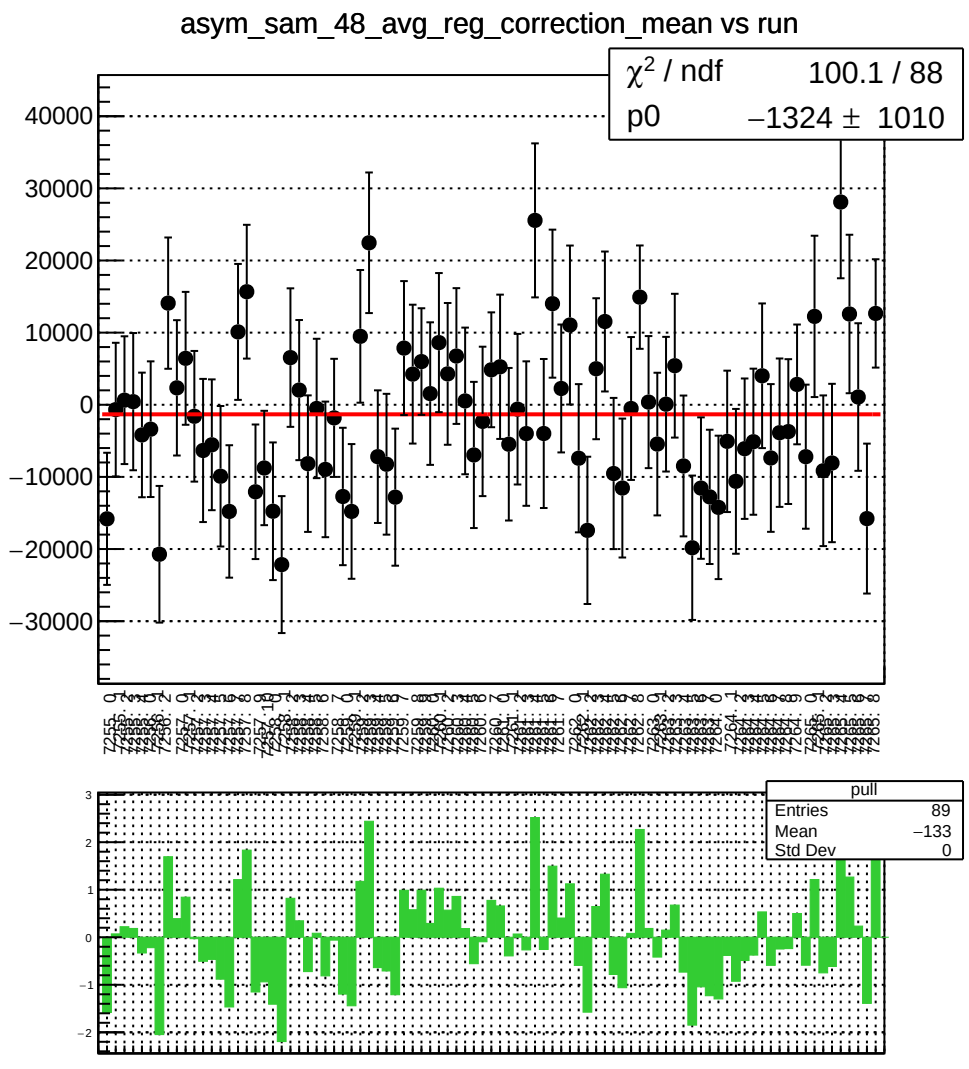

pull1D
Entries 89
Mean 0.06128
Std Dev 1.007

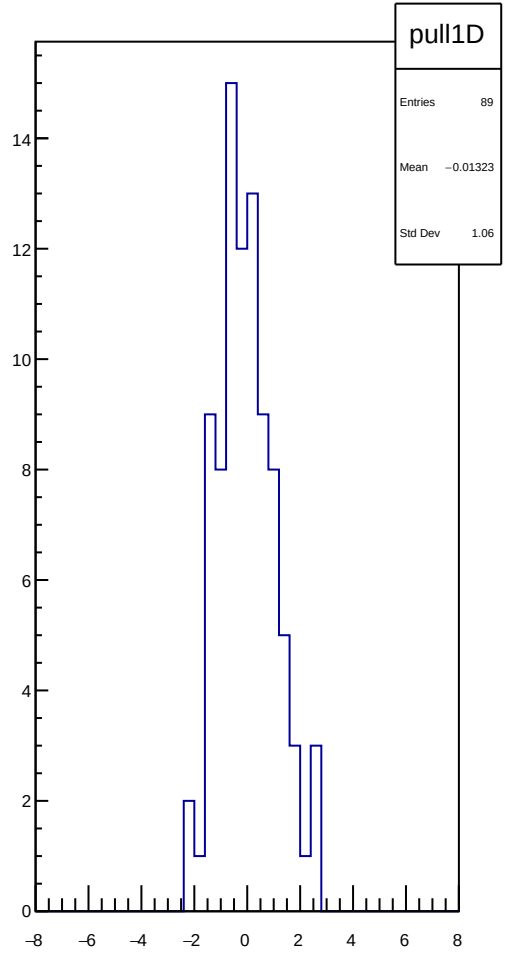

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.278e+05 / 88
p0 3.738e−12 ± 4.014e−15
50
40
30
20
10

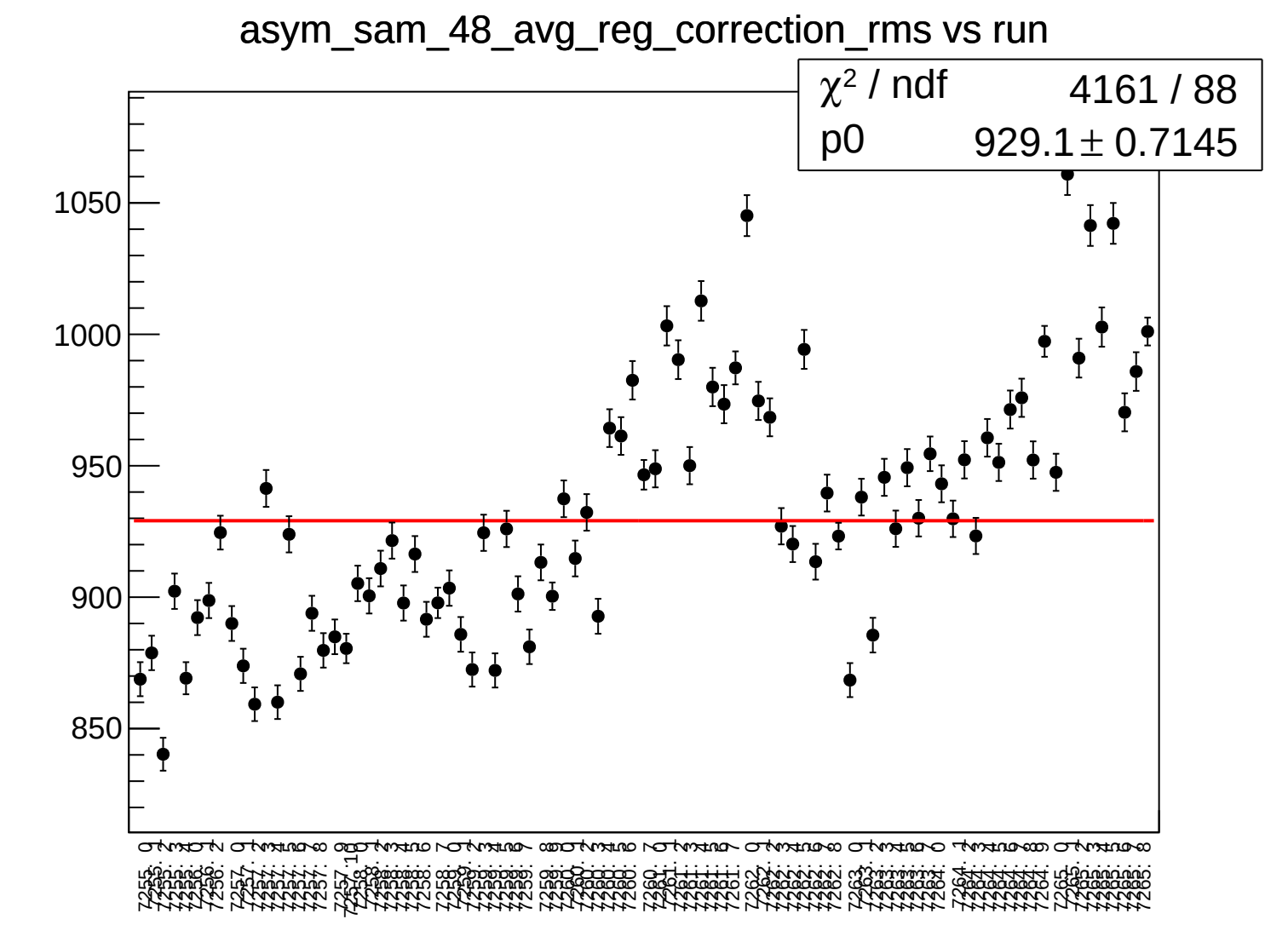

reg_asym_sam_48_avg_mean vs run
χ² / ndf 75.59 / 88
p0 111.3 ± 151.1
pull
Entries 89
Mean −441.1
Std Dev 0

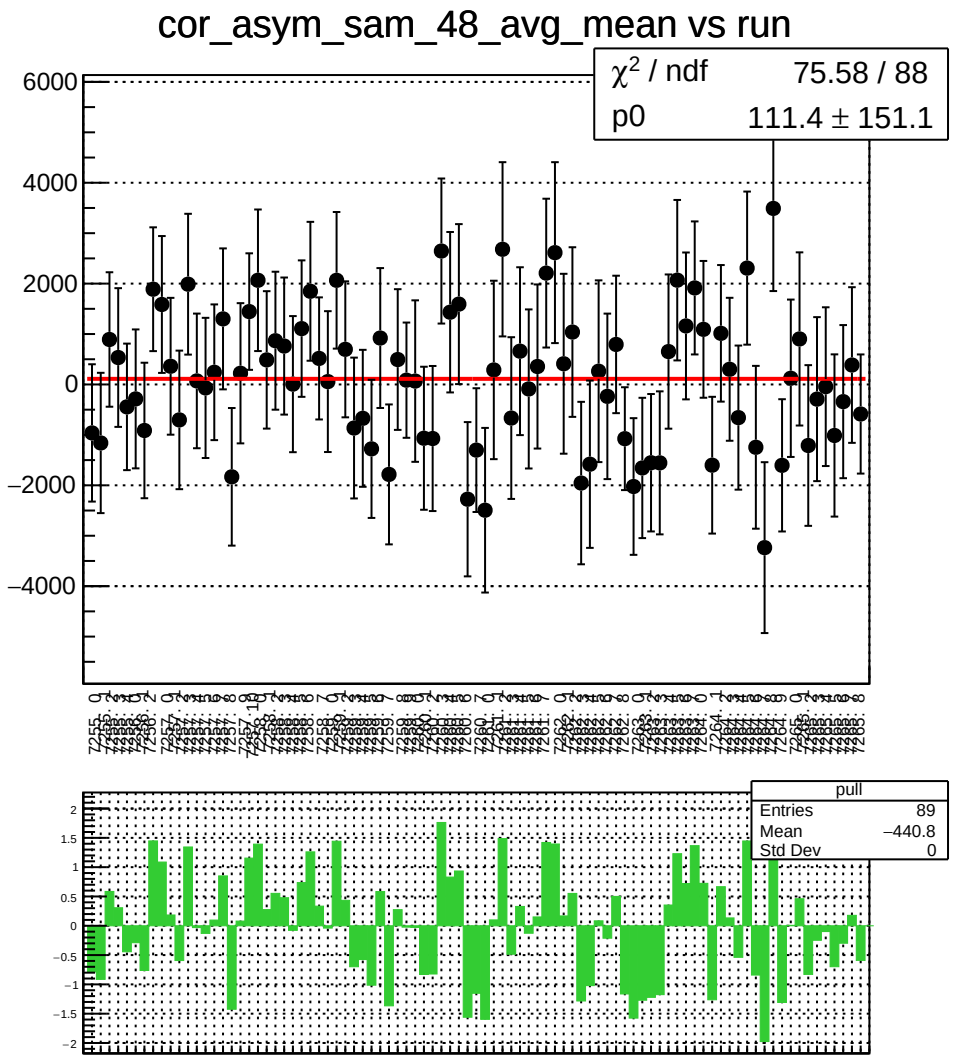

pull1D
Entries 89
Mean 0.006645
Std Dev 0.9215

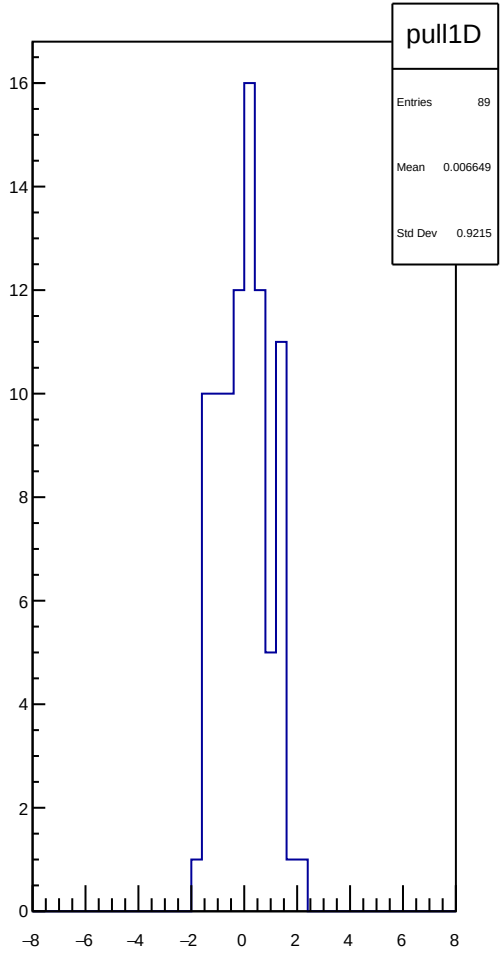

reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.285e+04 / 88
p0 138.6 ± 0.1069
170
160
150
140
130
120

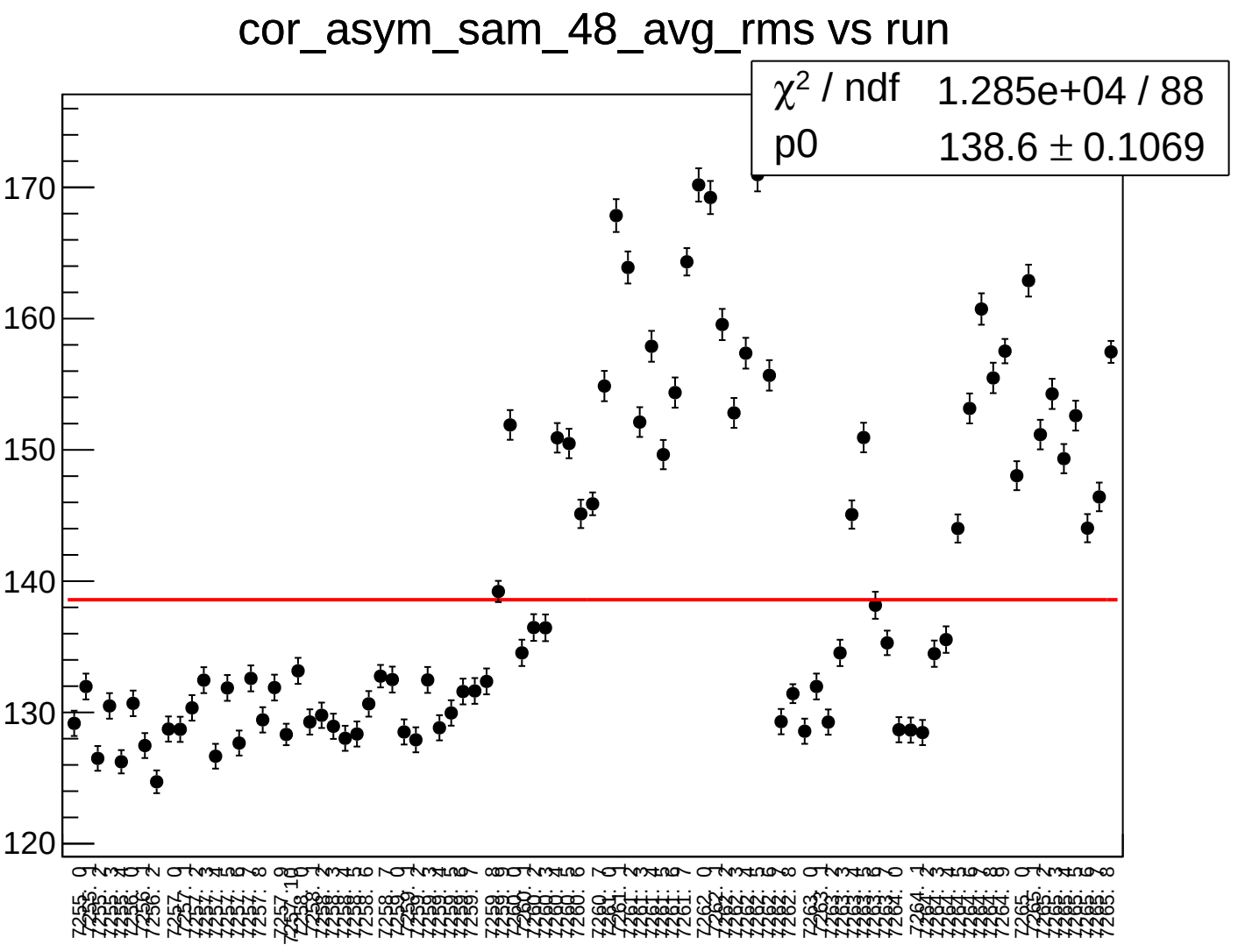

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 100.1 / 88
p0 −1324 ± 1010
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −133
Std Dev 0
3
2
1
0
−1
−2

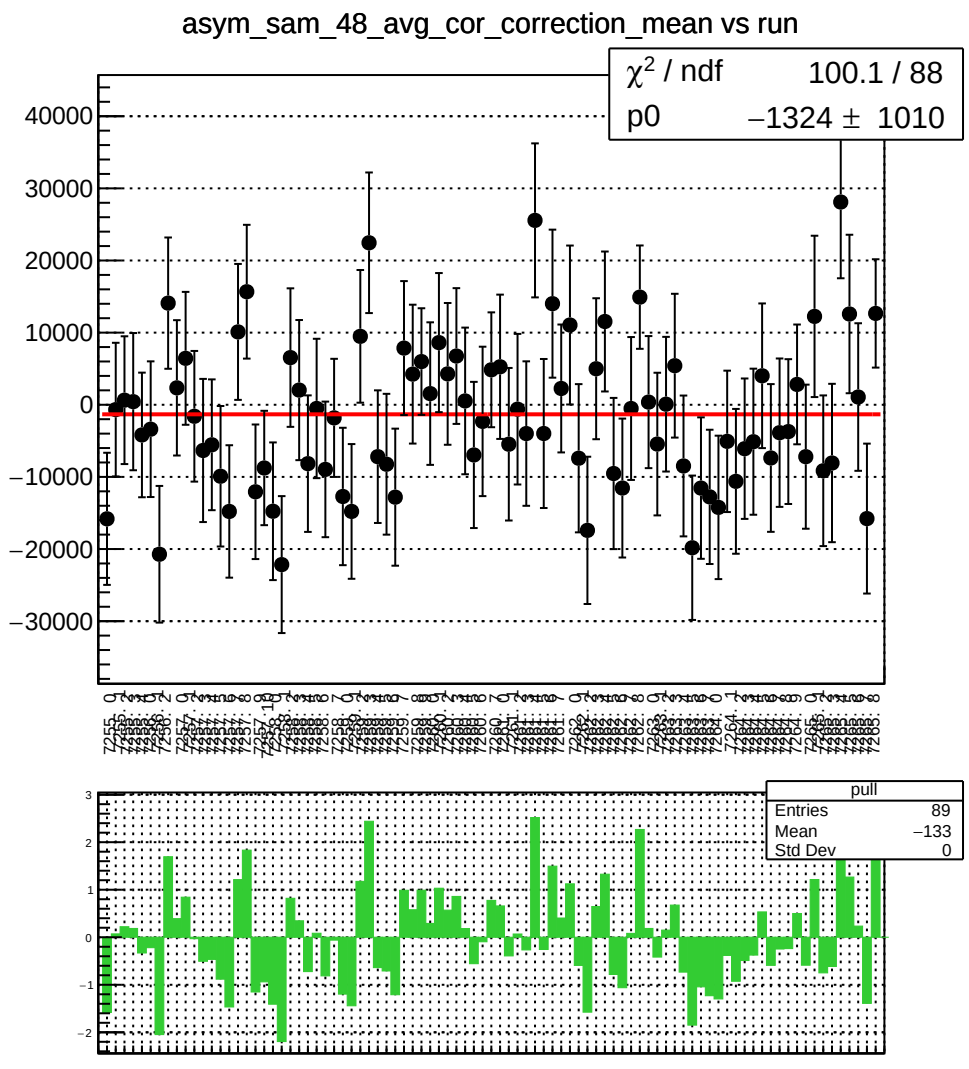

pull1D
Entries 89
Mean −0.01323
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

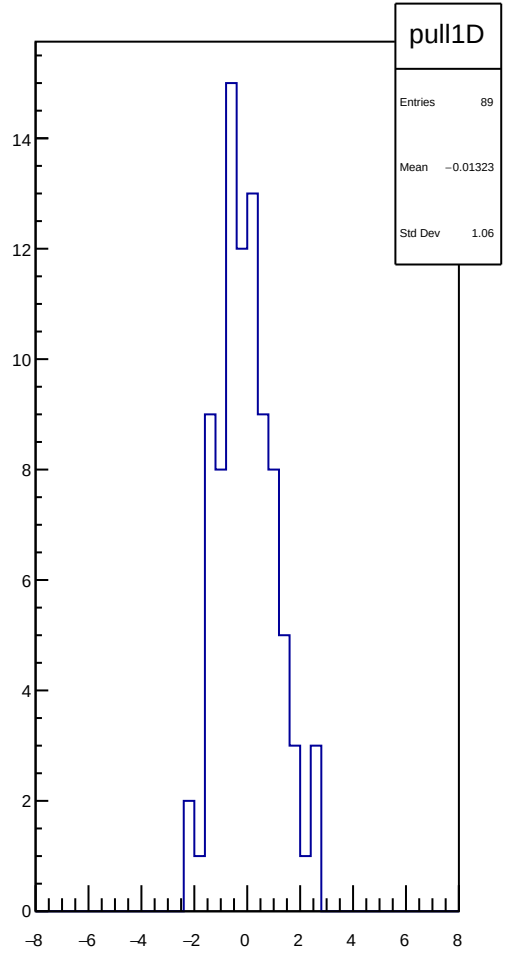

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 4161 / 88
p0 929.1 ± 0.7145
1050
1000
950
900
850

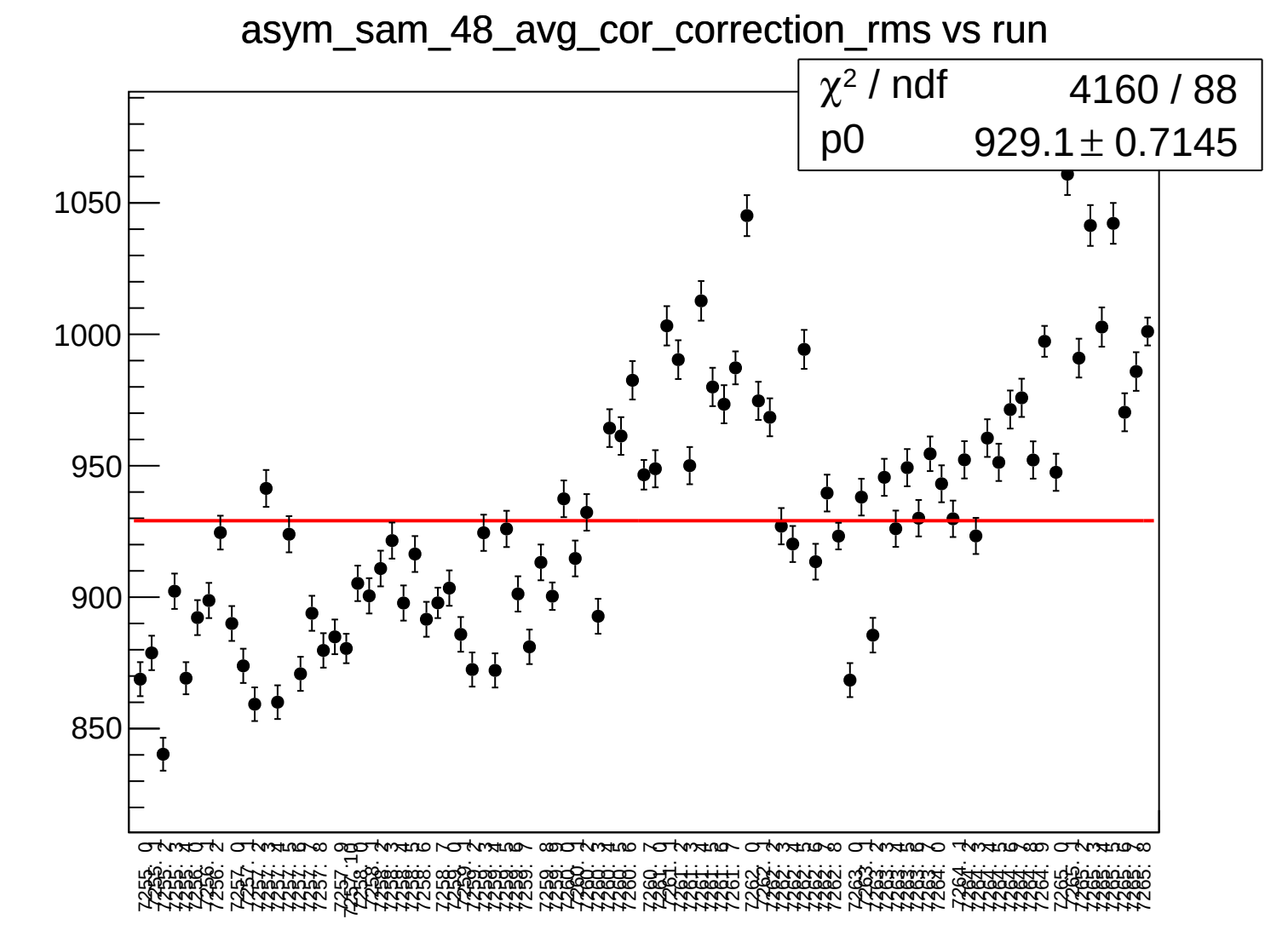

cor_asym_sam_48_avg_mean vs run
χ² / ndf 75.58 / 88
p0 111.4 ± 151.1
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −440.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

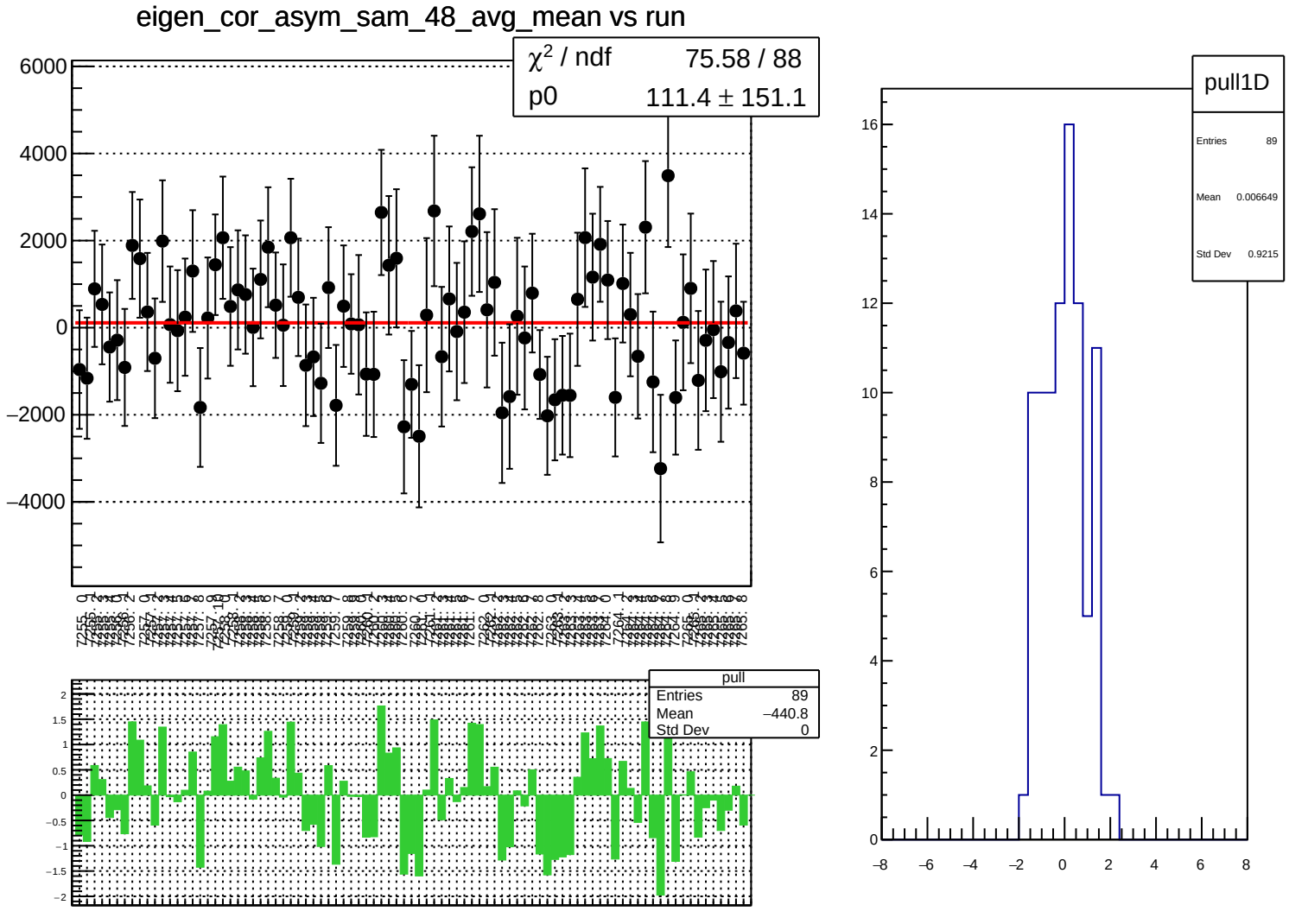

pull1D
Entries 89
Mean 0.006649
Std Dev 0.9215
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

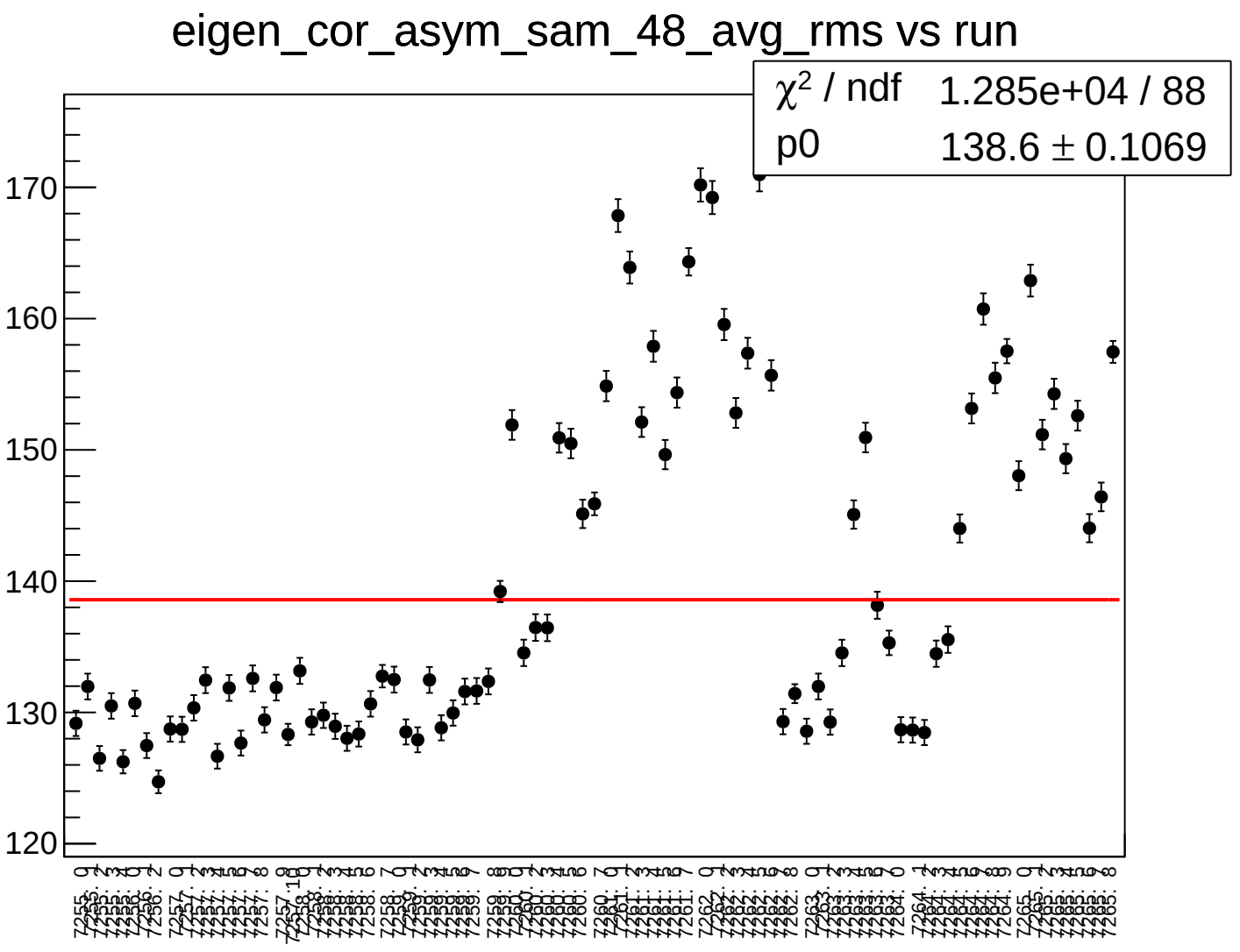

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.285e+04 / 88
p0 138.6 ± 0.1069
170
160
150
140
130
120

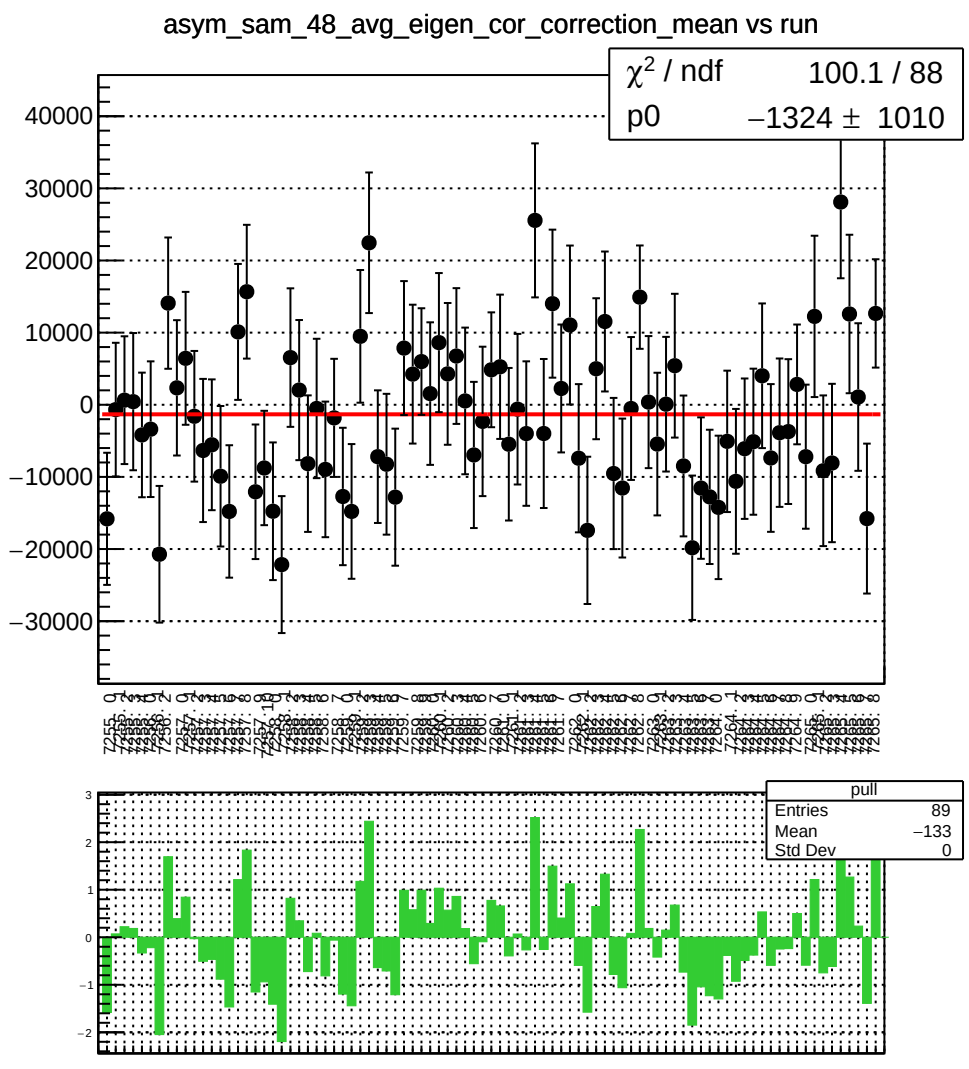

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 100.1 / 88
p0 −1324 ± 1010
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −133
Std Dev 0
3
2
1
0
−1
−2

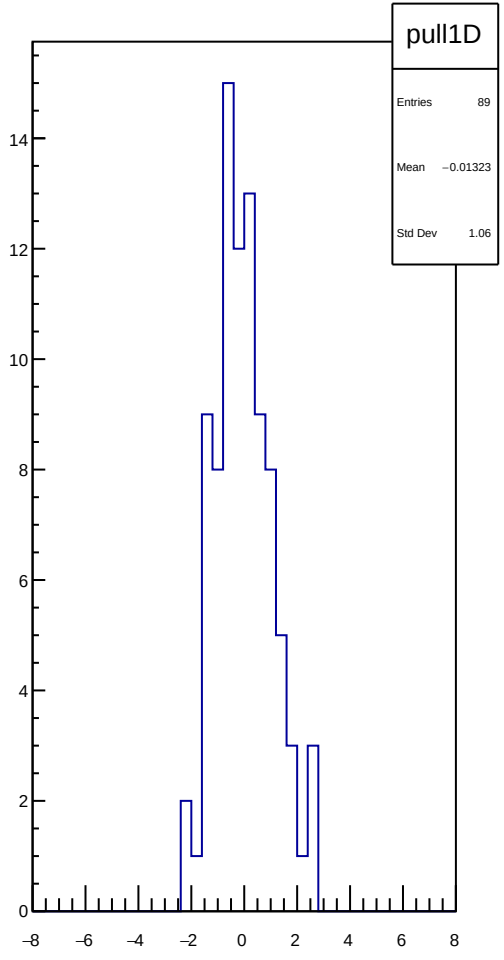

pull1D
Entries 89
Mean −0.01323
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

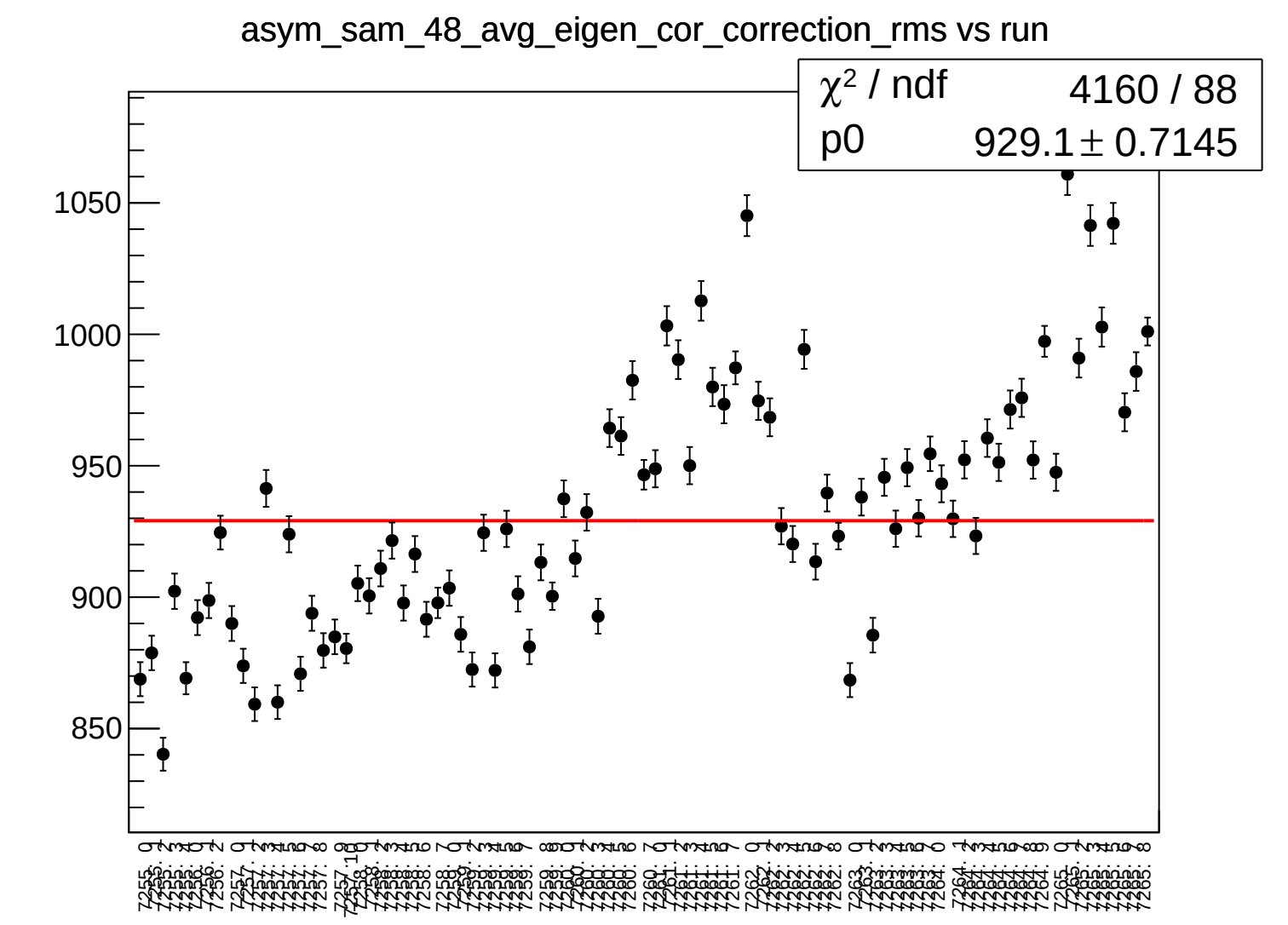

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 4160 / 88
p0 929.1 ± 0.7145
1050
1000
950
900
850

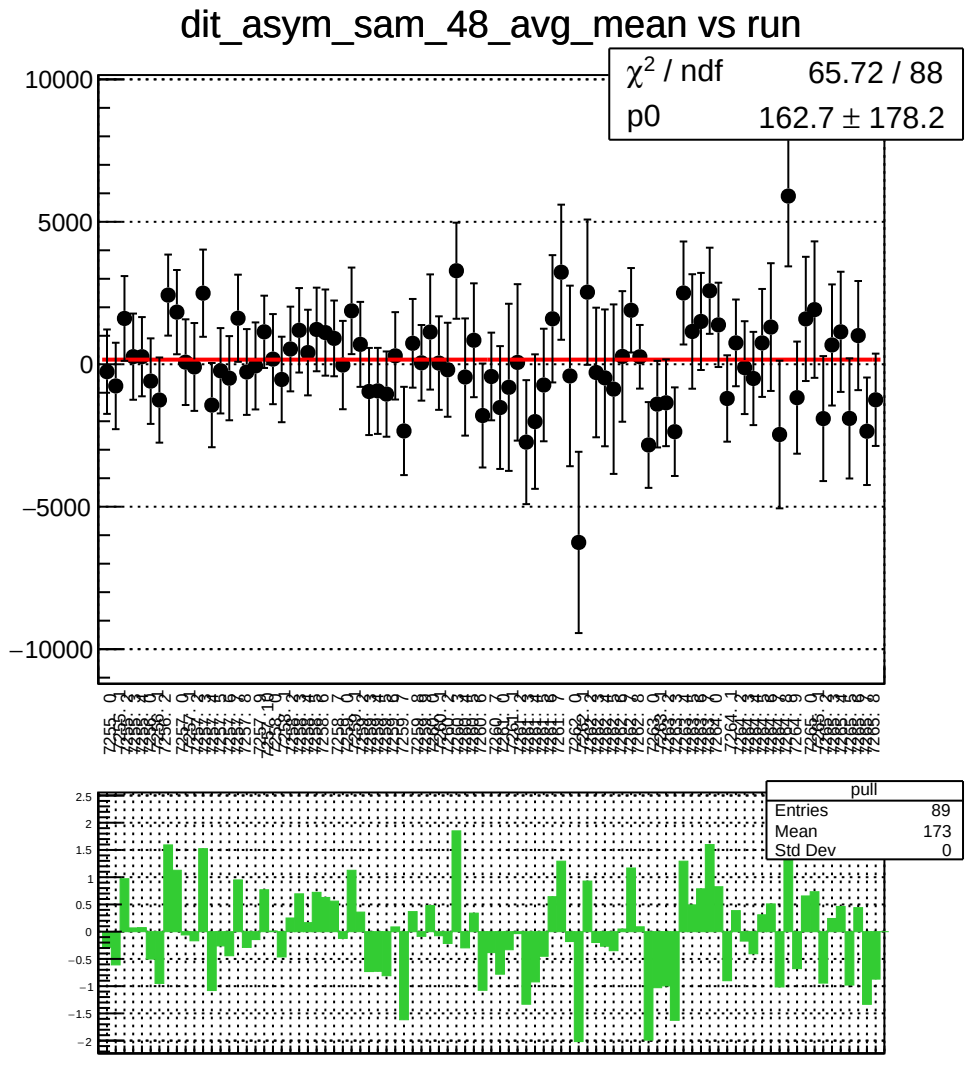

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 75.58 / 88
p0 111.4 ± 151.1
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −440.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.006649
Std Dev 0.9215
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

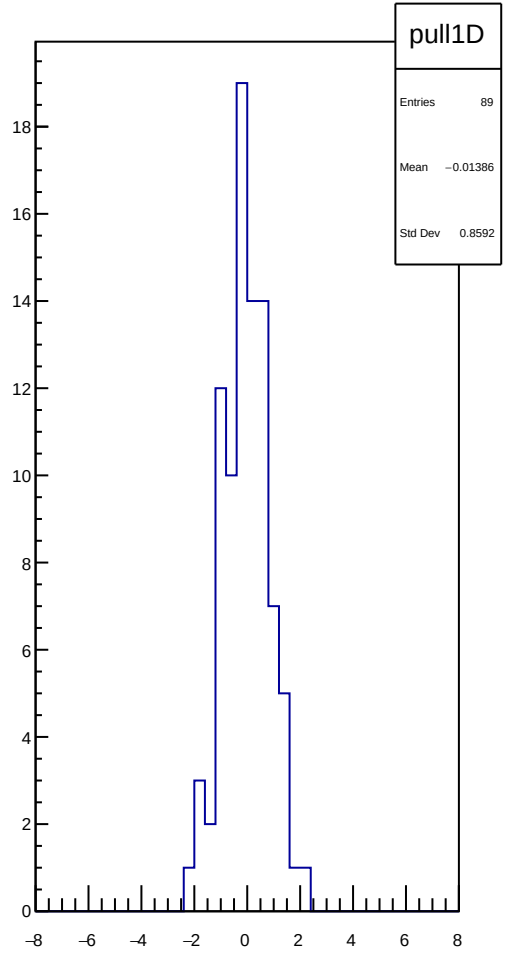

eigen_cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.285e+04 / 88
p0 138.6 ± 0.1069
170
160
150
140
130
120

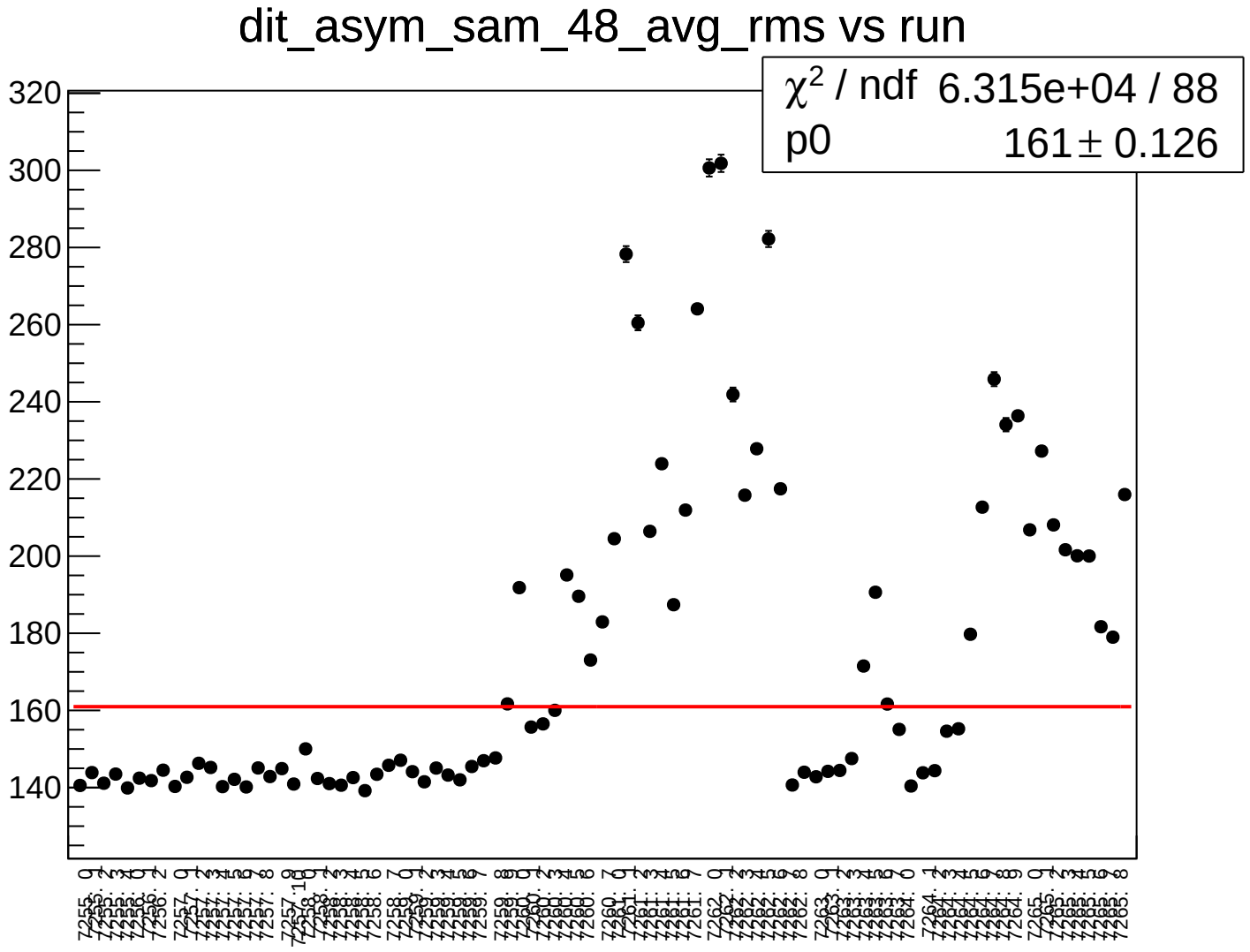

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.1 / 88
p0 −1324 ± 1010
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −133
Std Dev 0
3
2
1
0
−1
−2

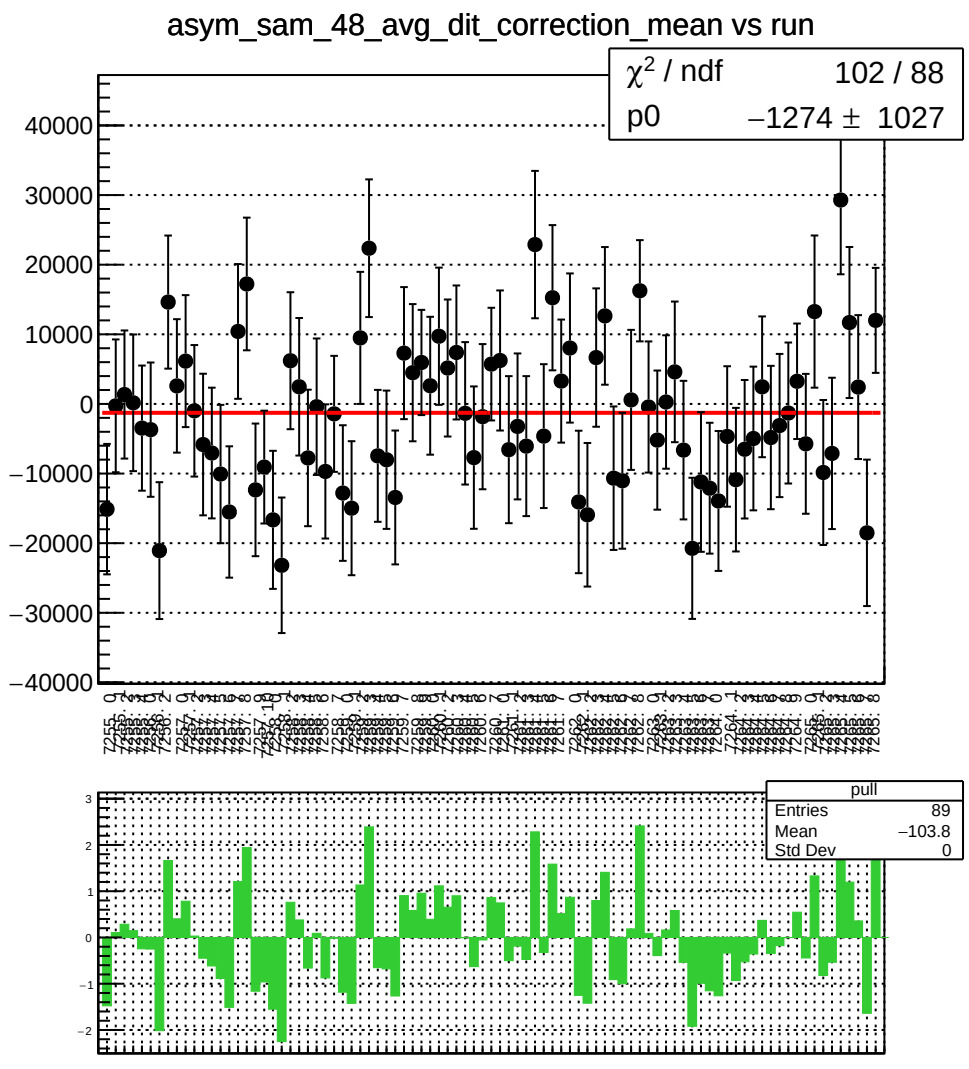

pull1D
Entries 89
Mean −0.01323
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

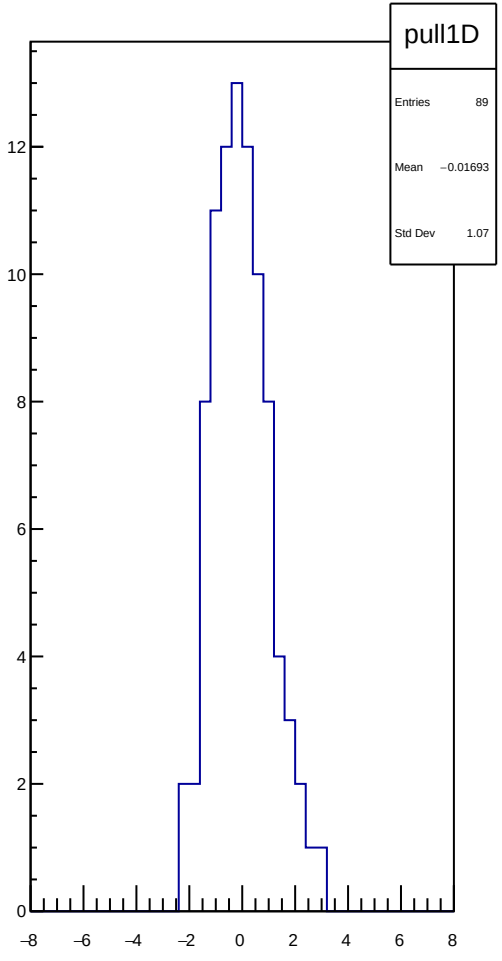

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 4160 / 88
p0 929.1 ± 0.7145
1050
1000
950
900
850

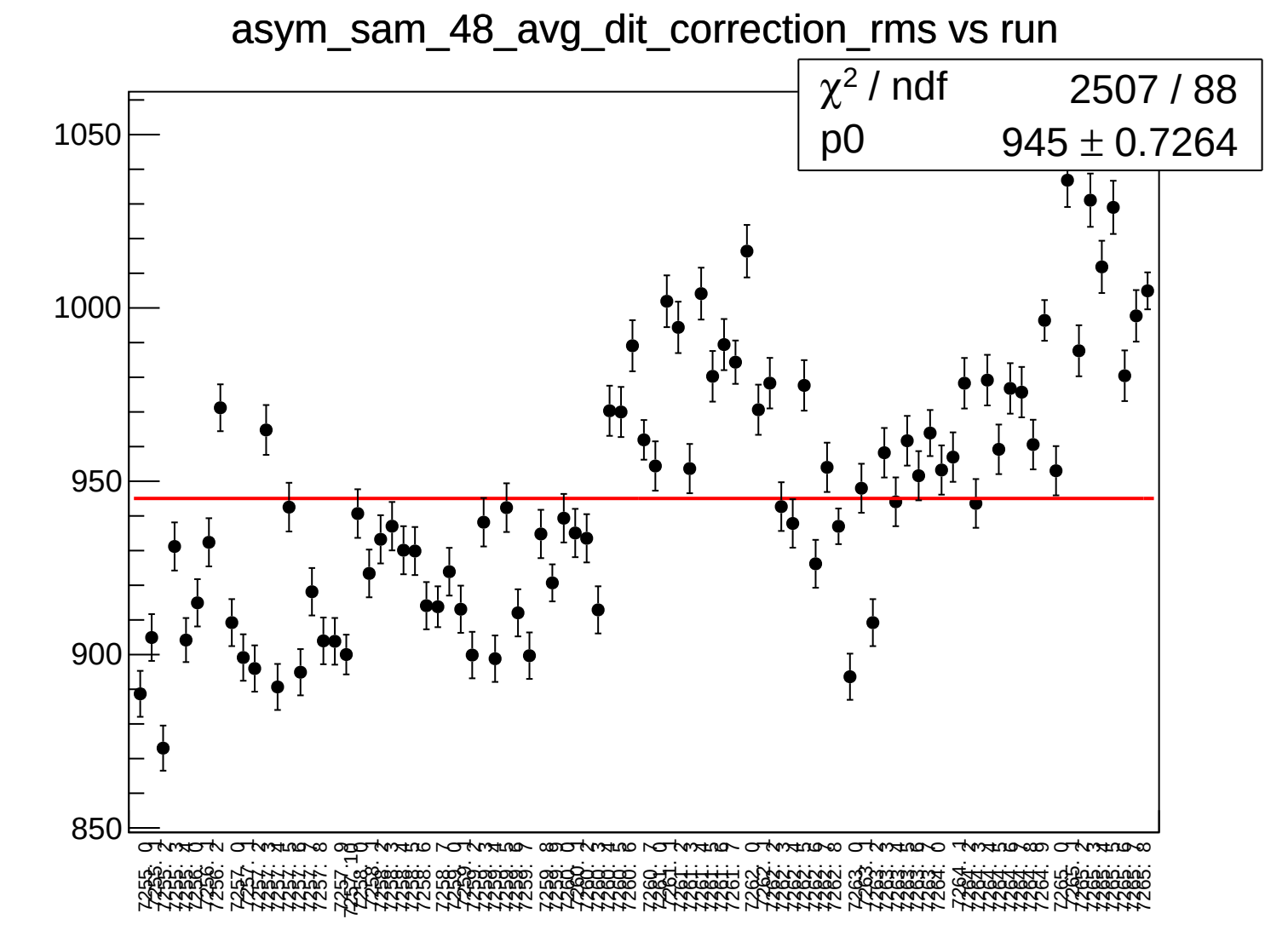

dit_asym_sam_48_avg_mean vs run
χ^2 / ndf 65.72 / 88
p0 162.7 ± 178.2
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 173
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

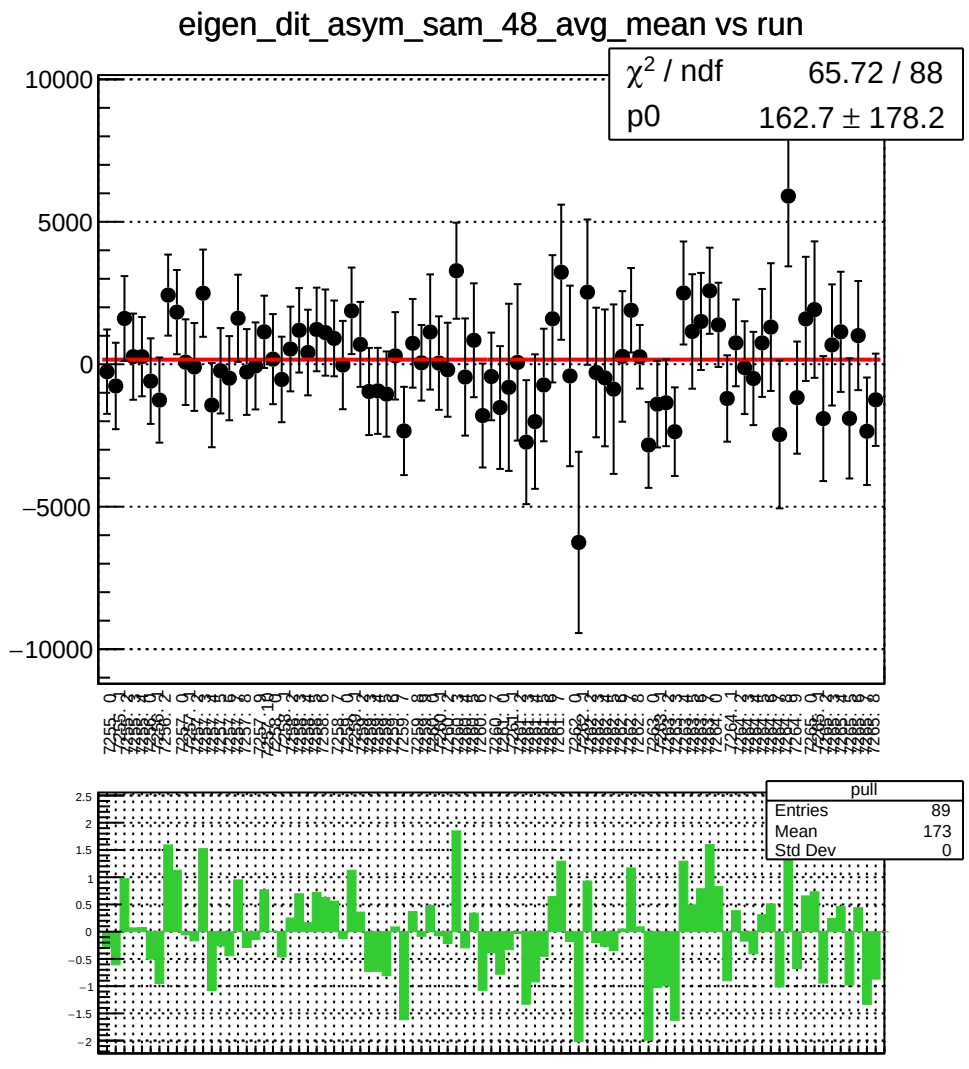

pull1D
Entries 89
Mean −0.01386
Std Dev 0.8592
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

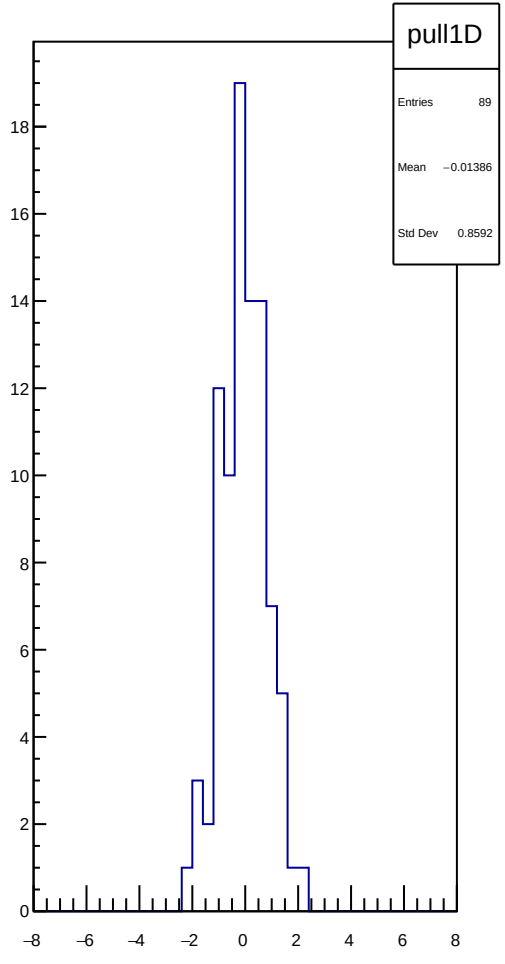

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 6.315e+04 / 88
p0 161 ± 0.126
320
300
280
260
240
220
200
180
160
140

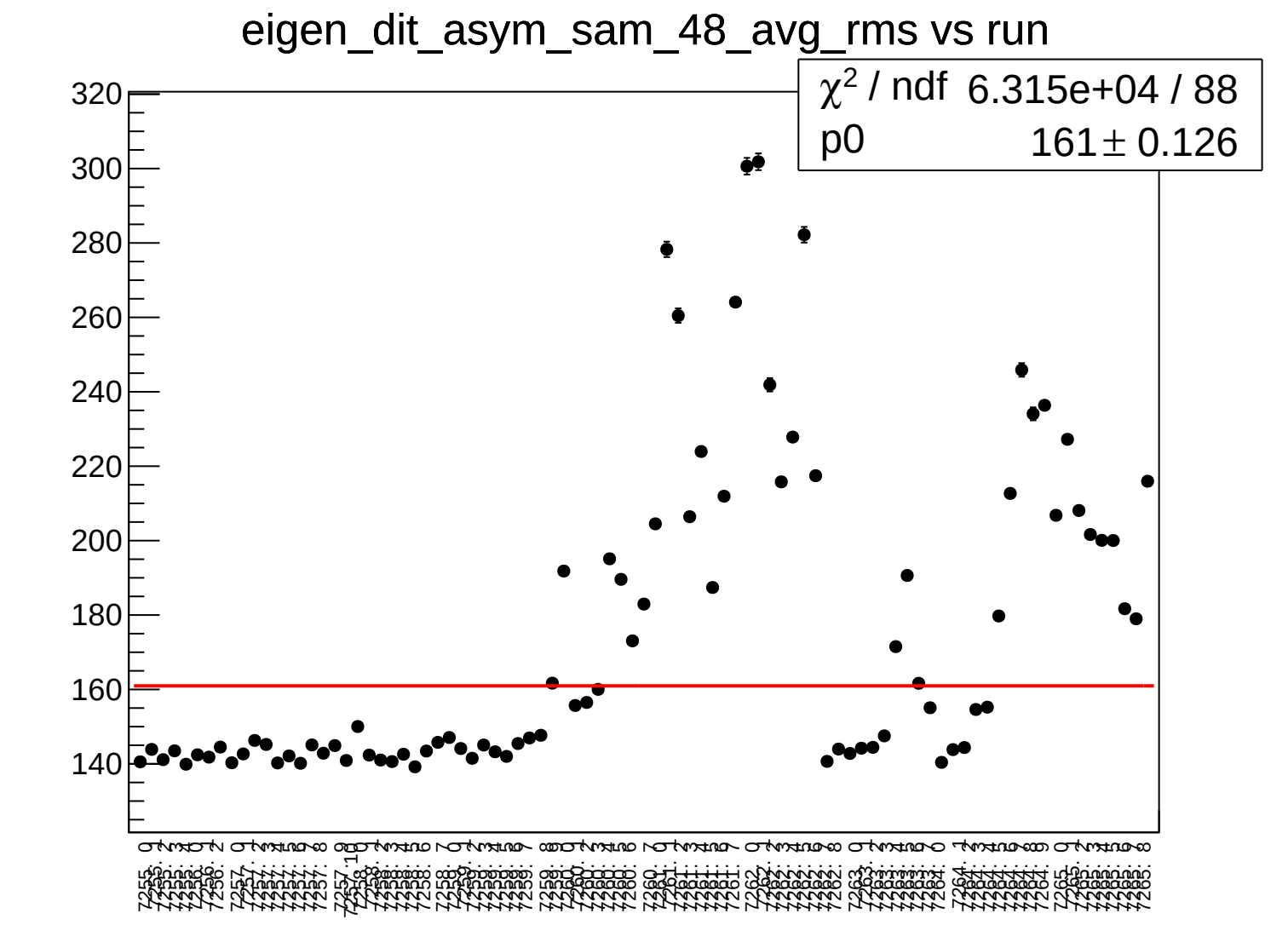

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 102 / 88
p0 −1274 ± 1027
pull
Entries 89
Mean −103.8
Std Dev 0

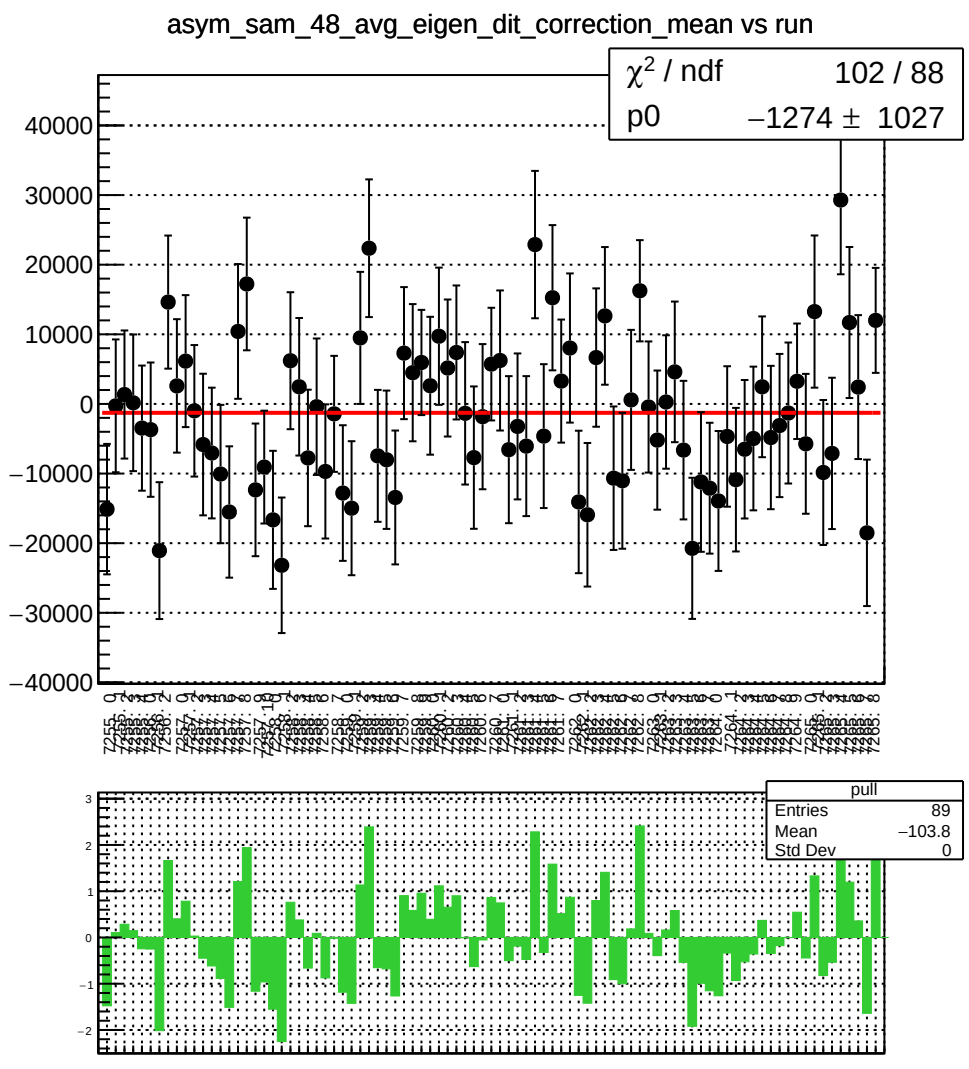

pull1D
Entries 89
Mean −0.01693
Std Dev 1.07

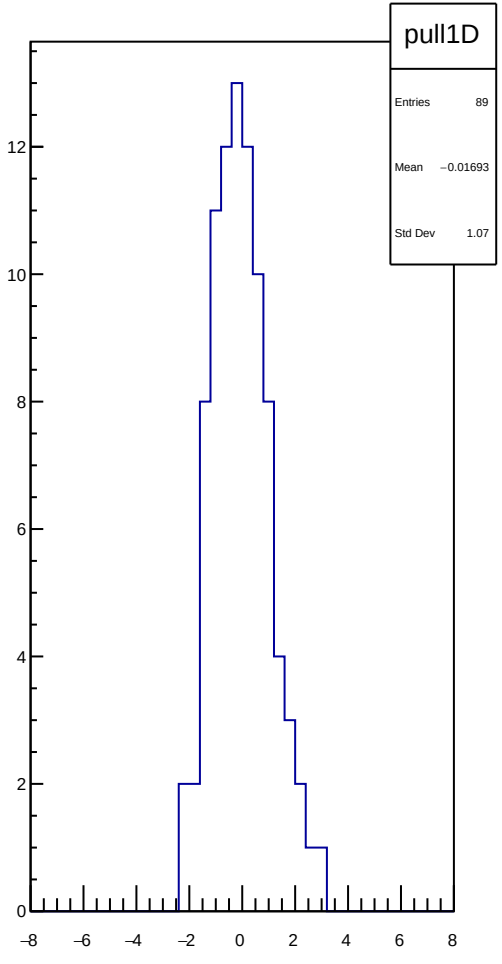

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 2507 / 88
p0 945 ± 0.7264
1050
1000
950
900
850

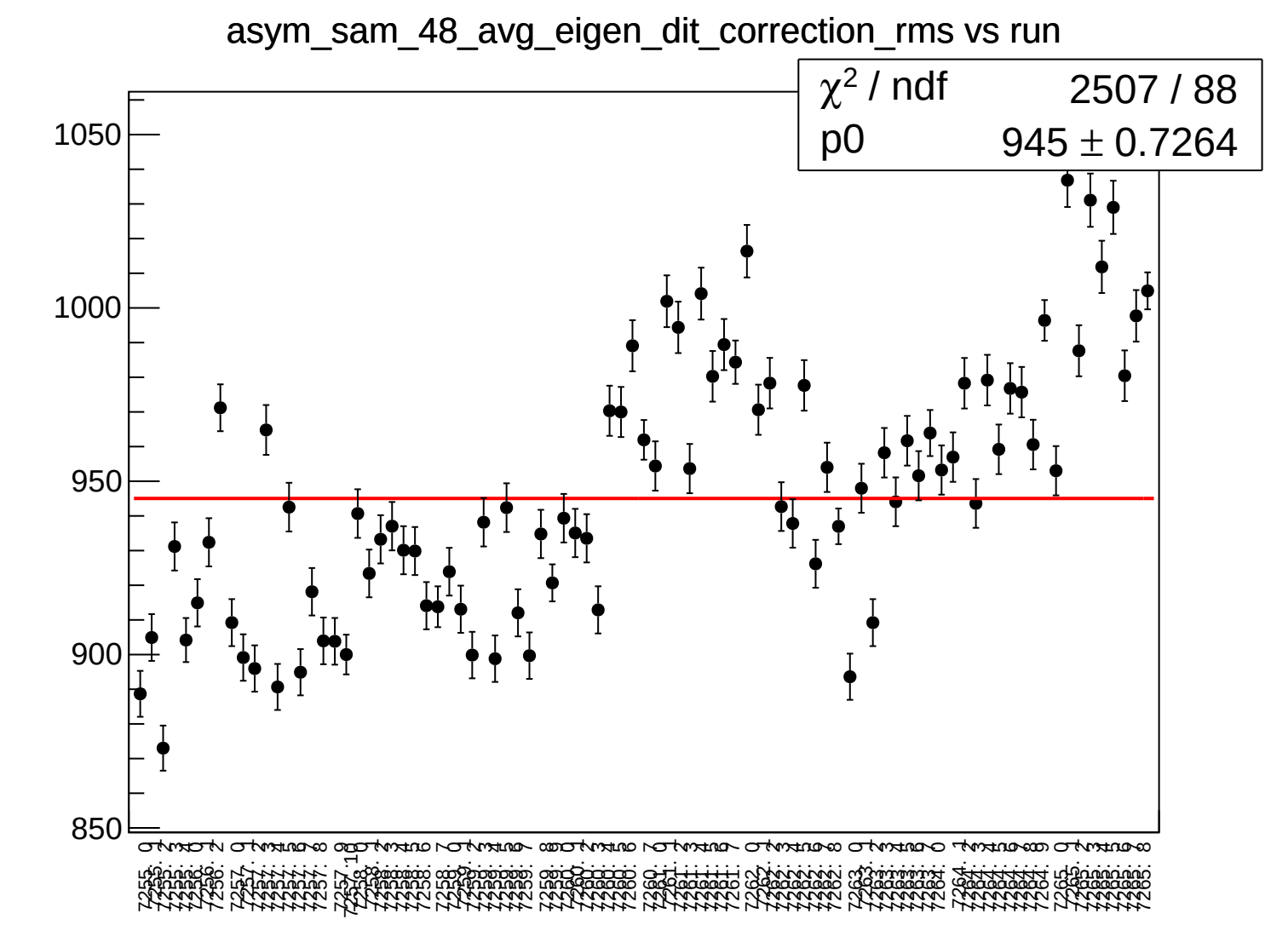

eigen_dit_asym_sam_48_avg_mean vs run
χ^2 / ndf 65.72 / 88
p0 162.7 ± 178.2
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 173
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

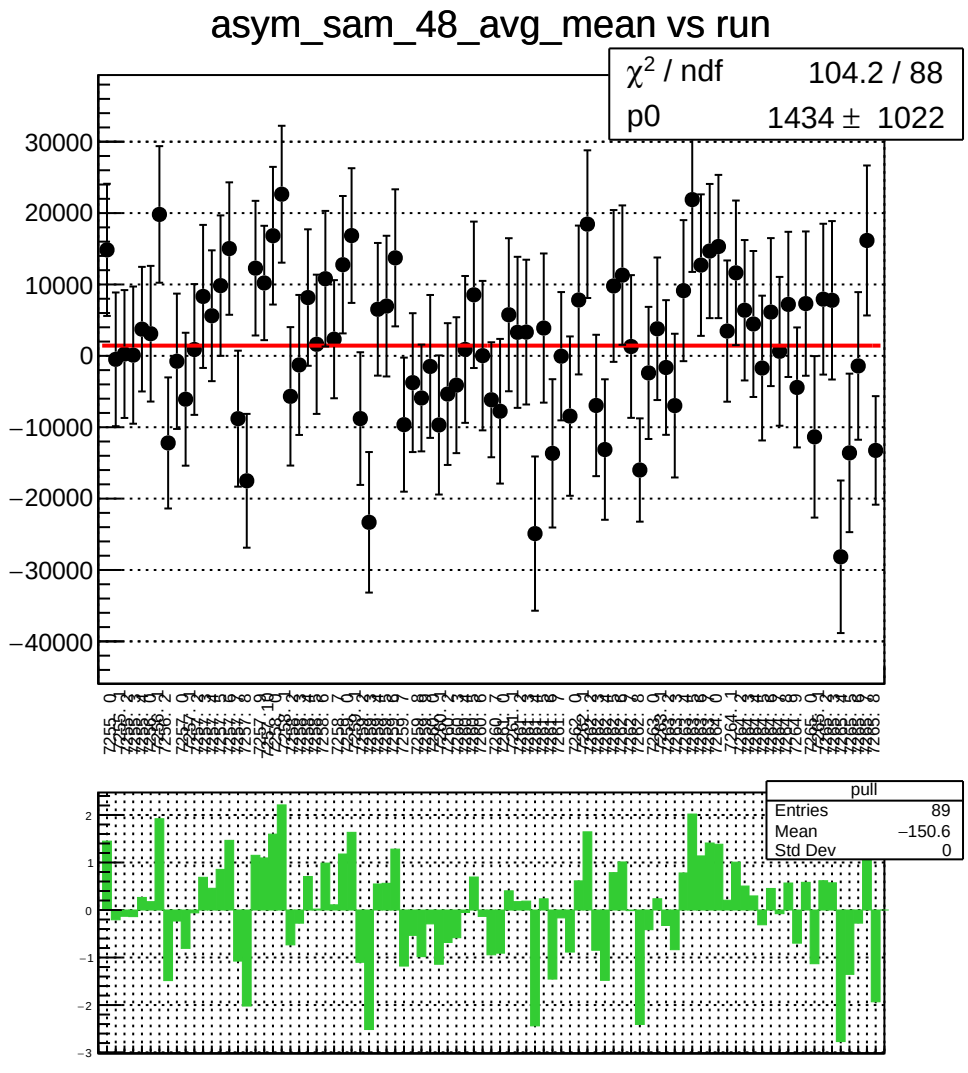

pull1D
Entries 89
Mean −0.01386
Std Dev 0.8592
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

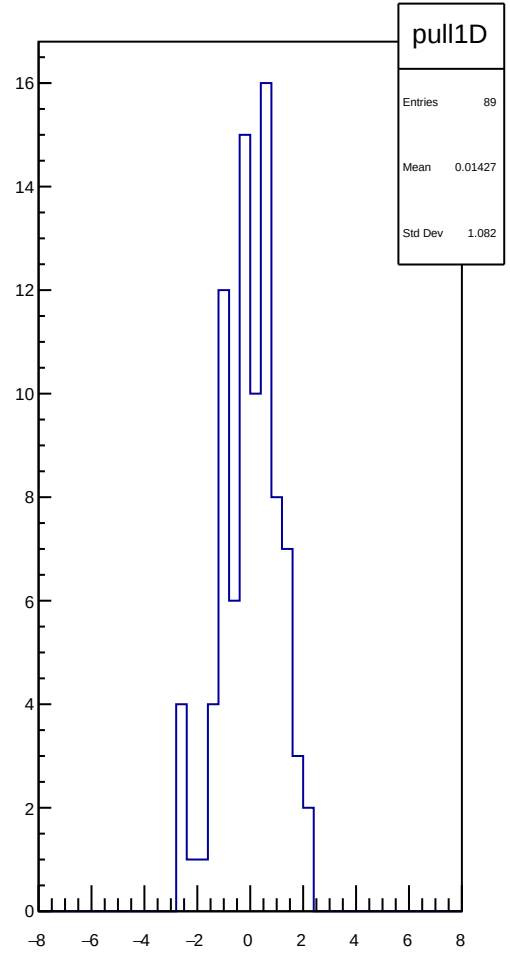

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 6.315e+04 / 88
p0 161 ± 0.126
320
300
280
260
240
220
200
180
160
140

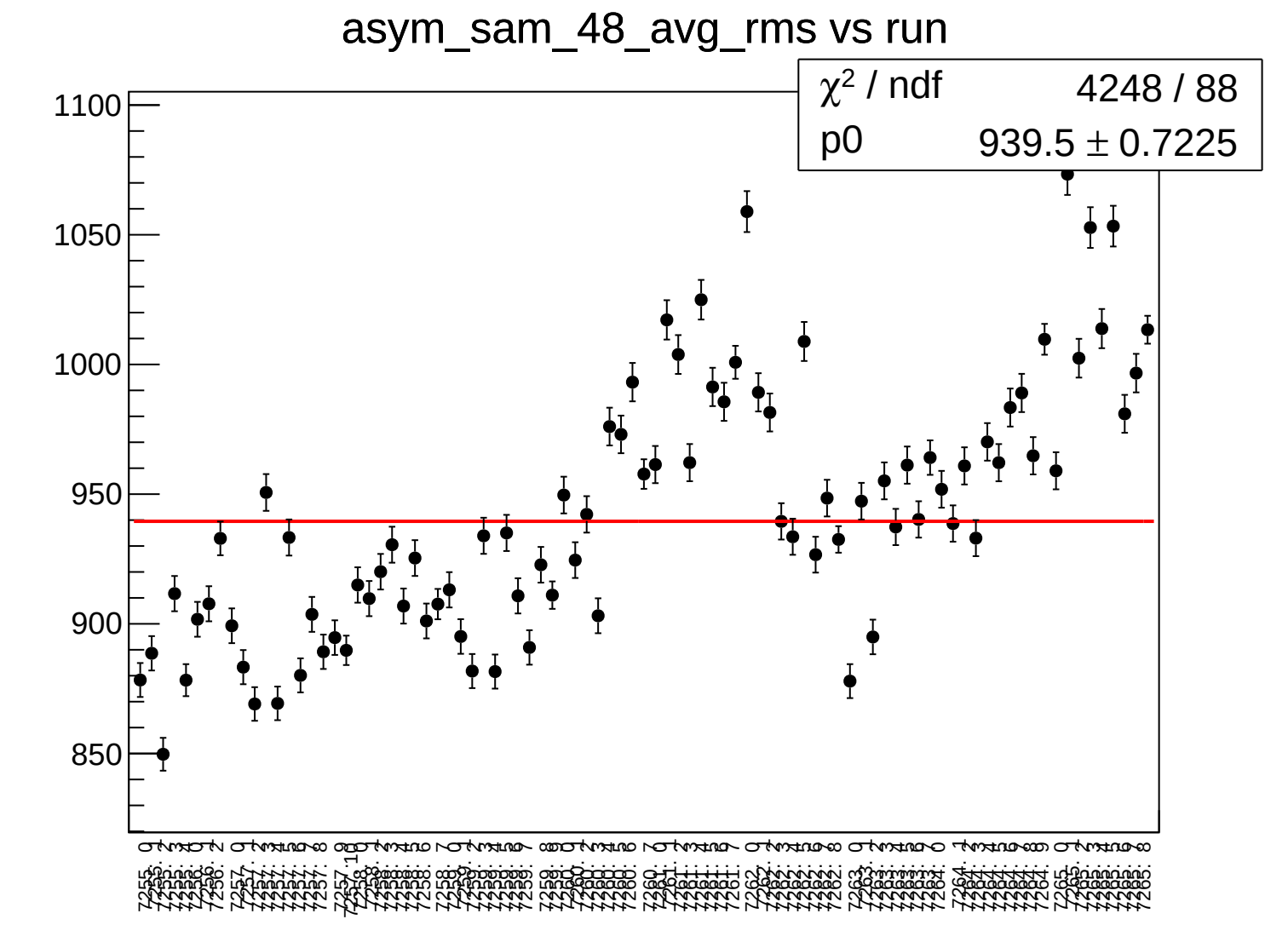

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 102 / 88
p0 −1274 ± 1027
pull
Entries 89
Mean −103.8
Std Dev 0

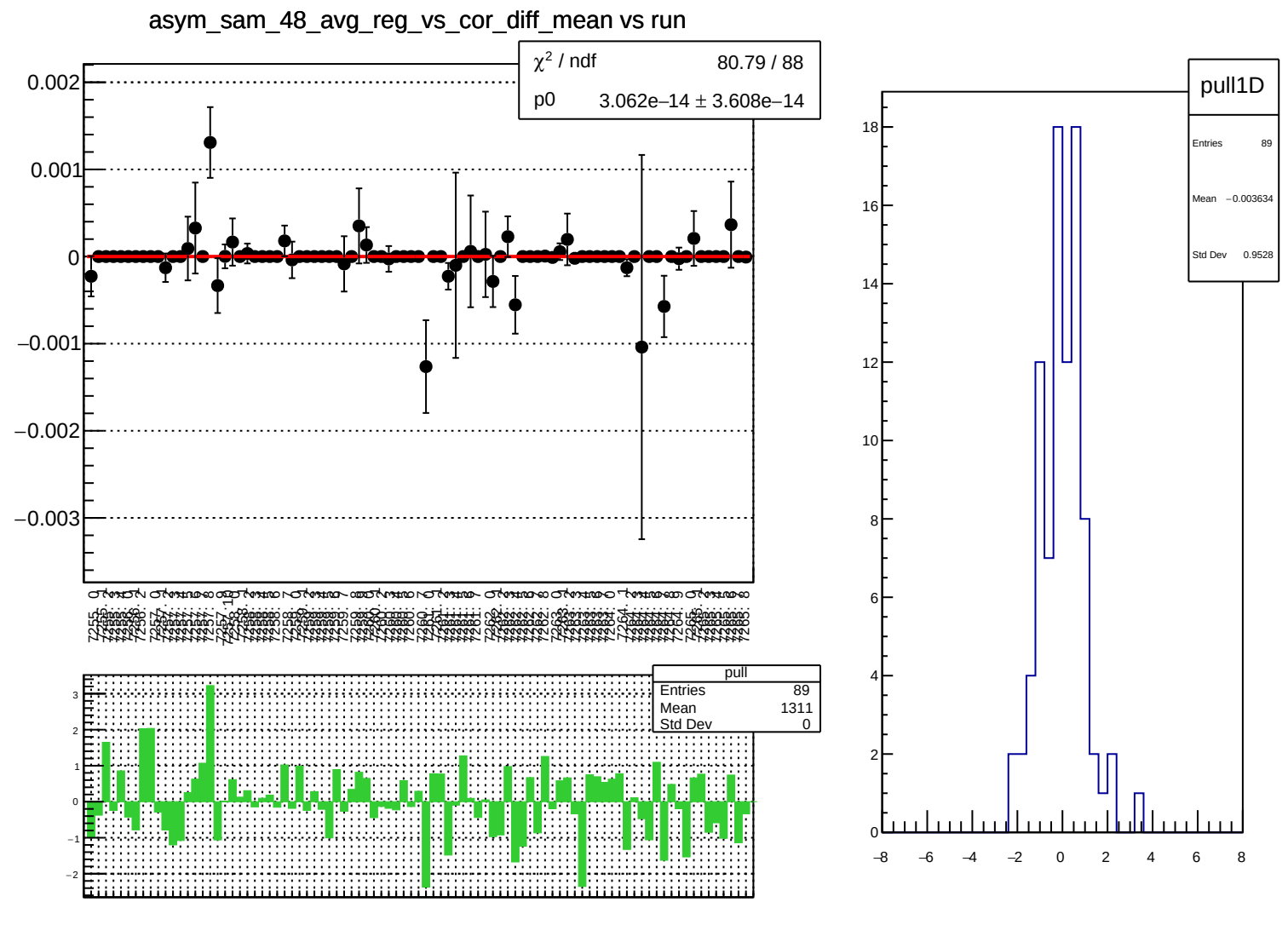

pull1D
Entries 89
Mean −0.01693
Std Dev 1.07

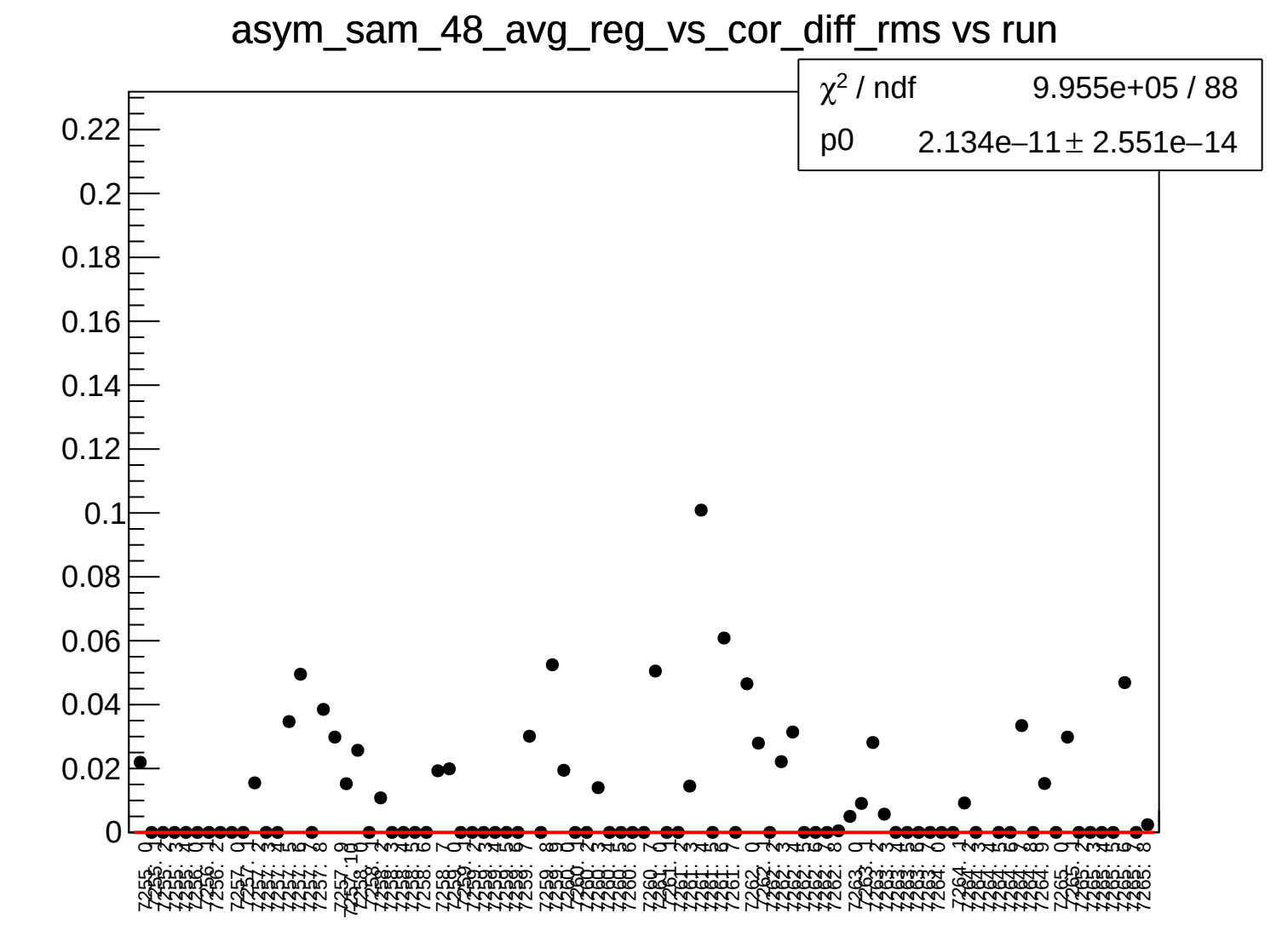

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 2507 / 88
p0 945 ± 0.7264
1050
1000
950
900
850

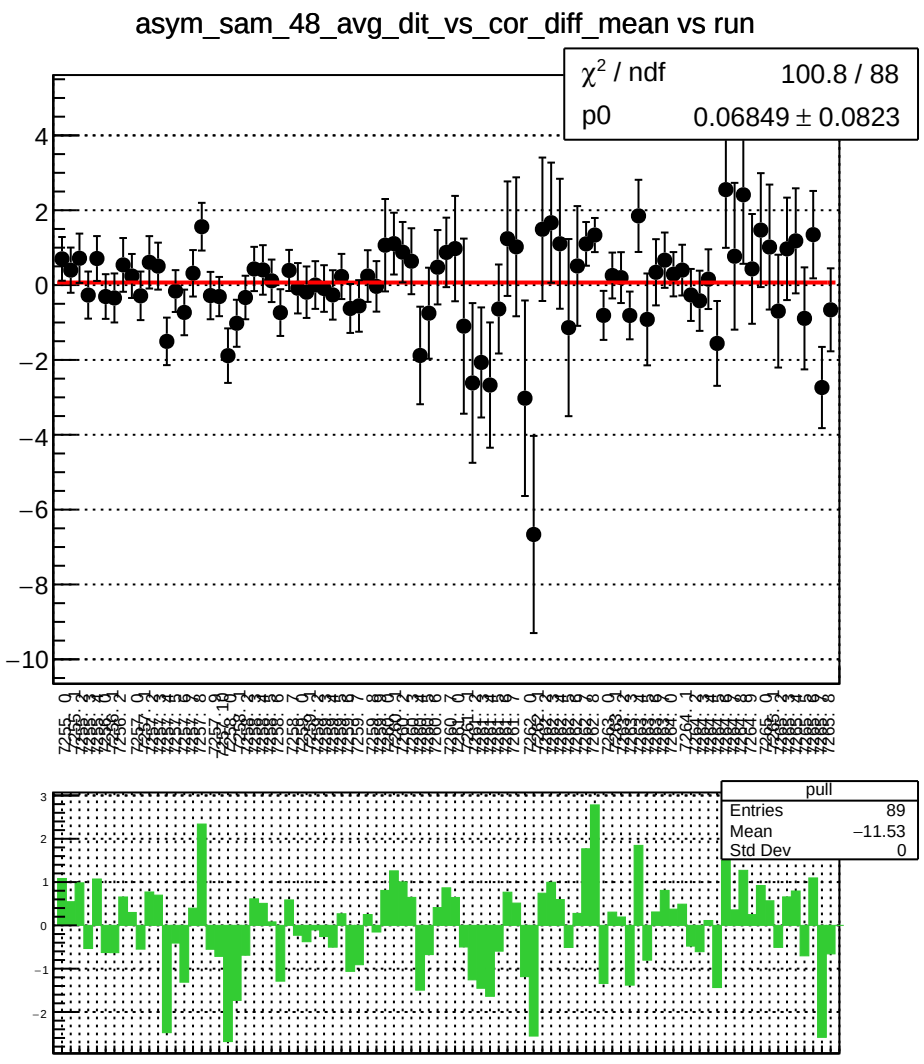

asym_sam_48_avg_mean vs run
χ² / ndf 104.2 / 88
p0 1434 ± 1022
pull
Entries 89
Mean −150.6
Std Dev 0

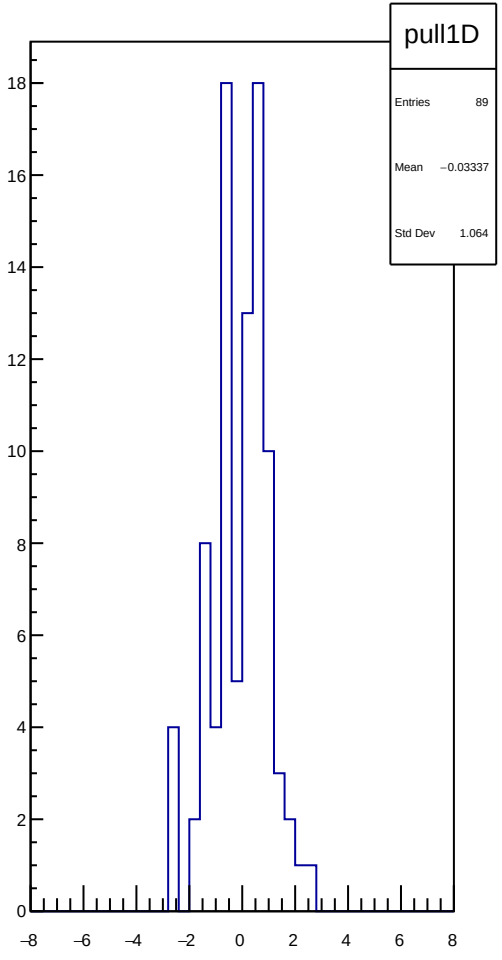

pull1D
Entries 89
Mean 0.01427
Std Dev 1.082

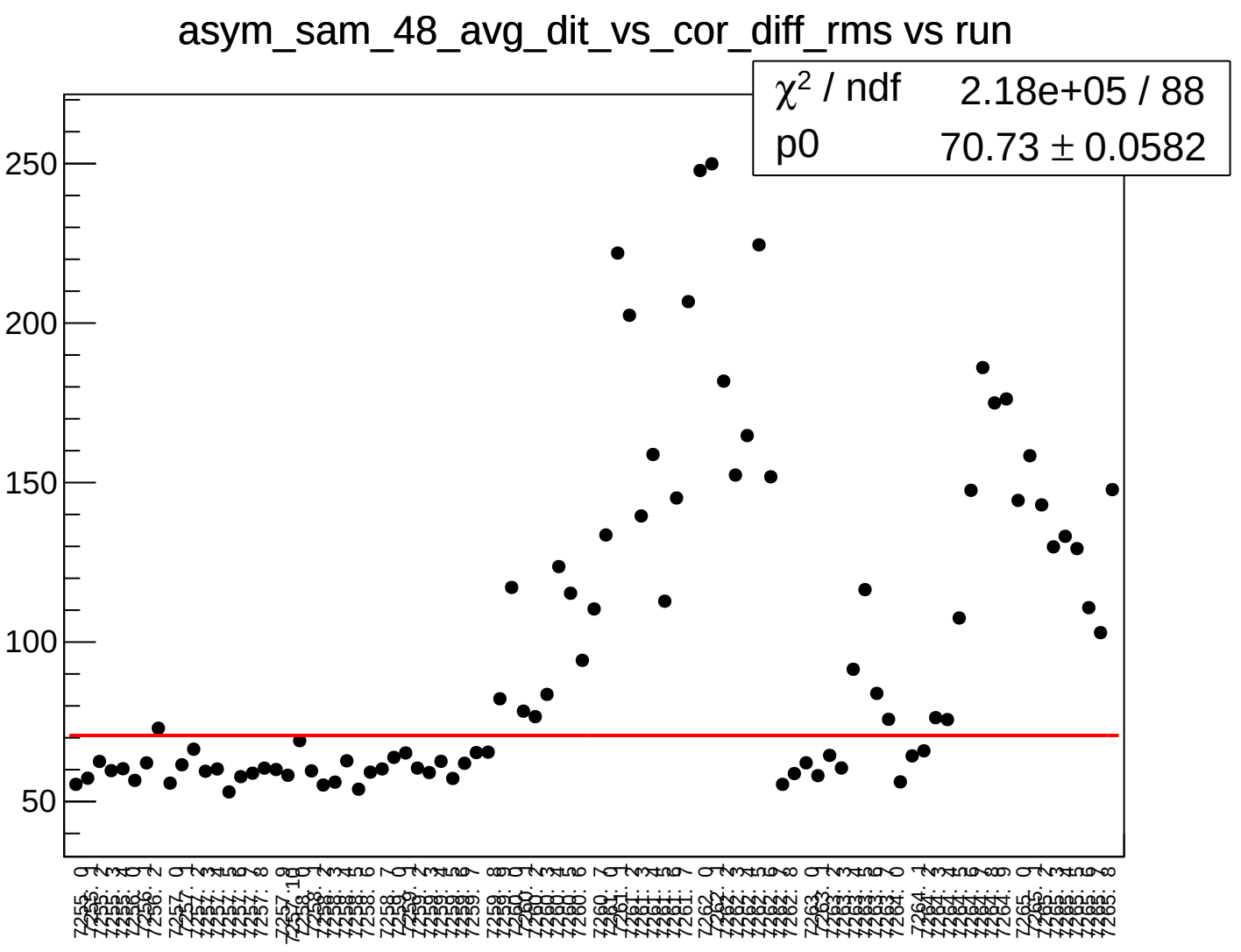

asym_sam_48_avg_rms vs run
χ² / ndf 4248 / 88
p0 939.5 ± 0.7225
1100
1050
1000
950
900
850

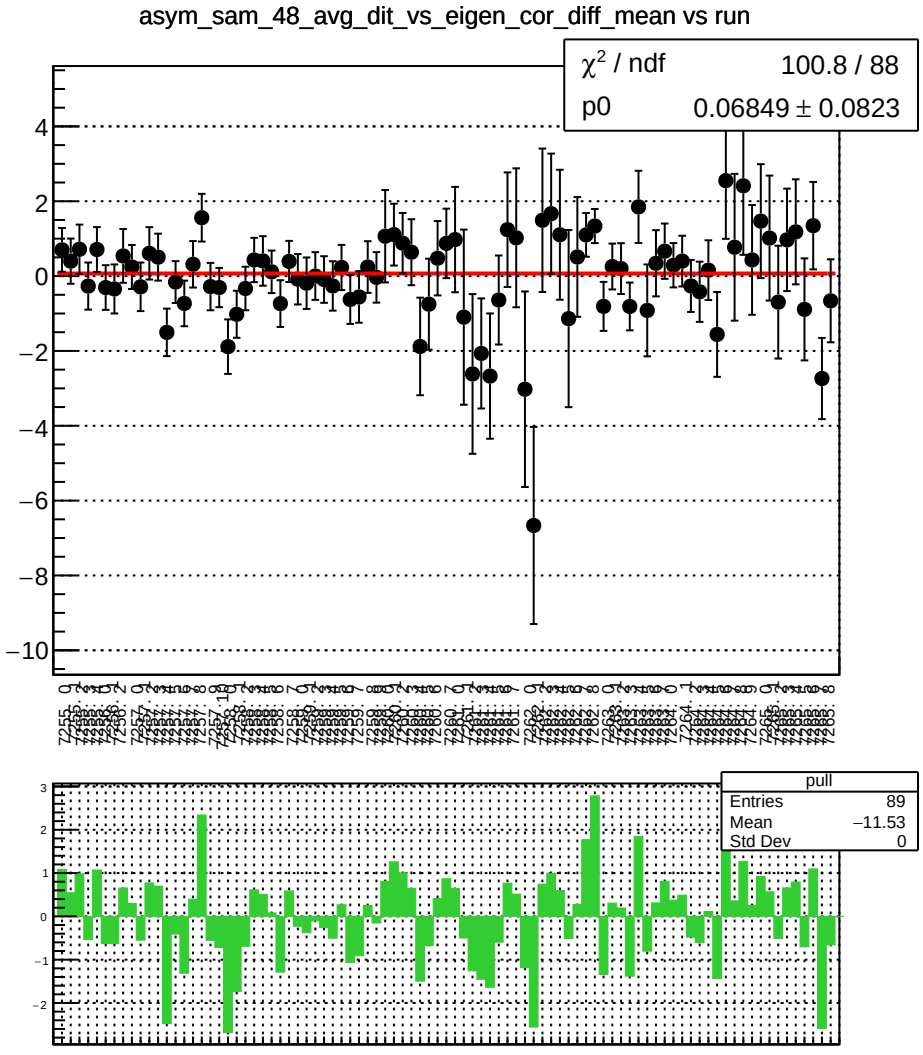

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.79 / 88
p0 3.062e−14 ± 3.608e−14
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 89
Mean 1311
Std Dev 0
pull1D
Entries 89
Mean −0.003634
Std Dev 0.9528

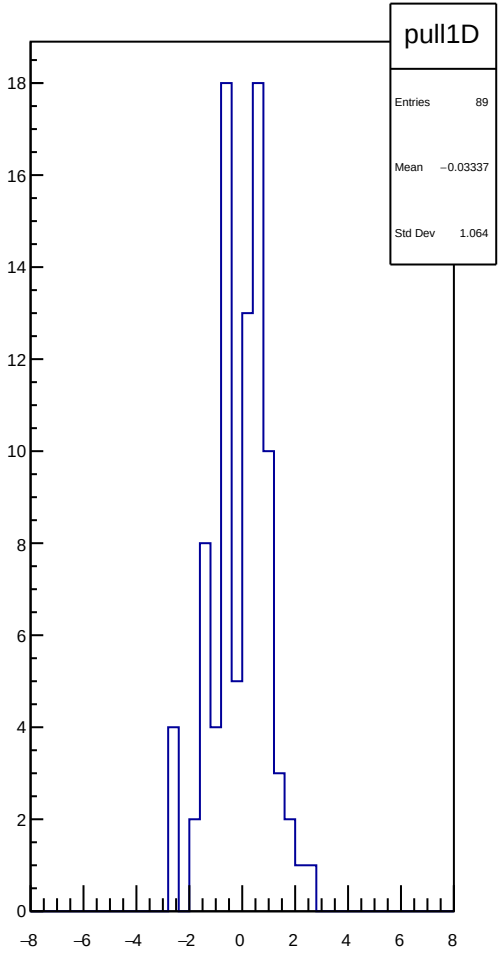

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.955e+05 / 88
p0 2.134e−11 ± 2.551e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

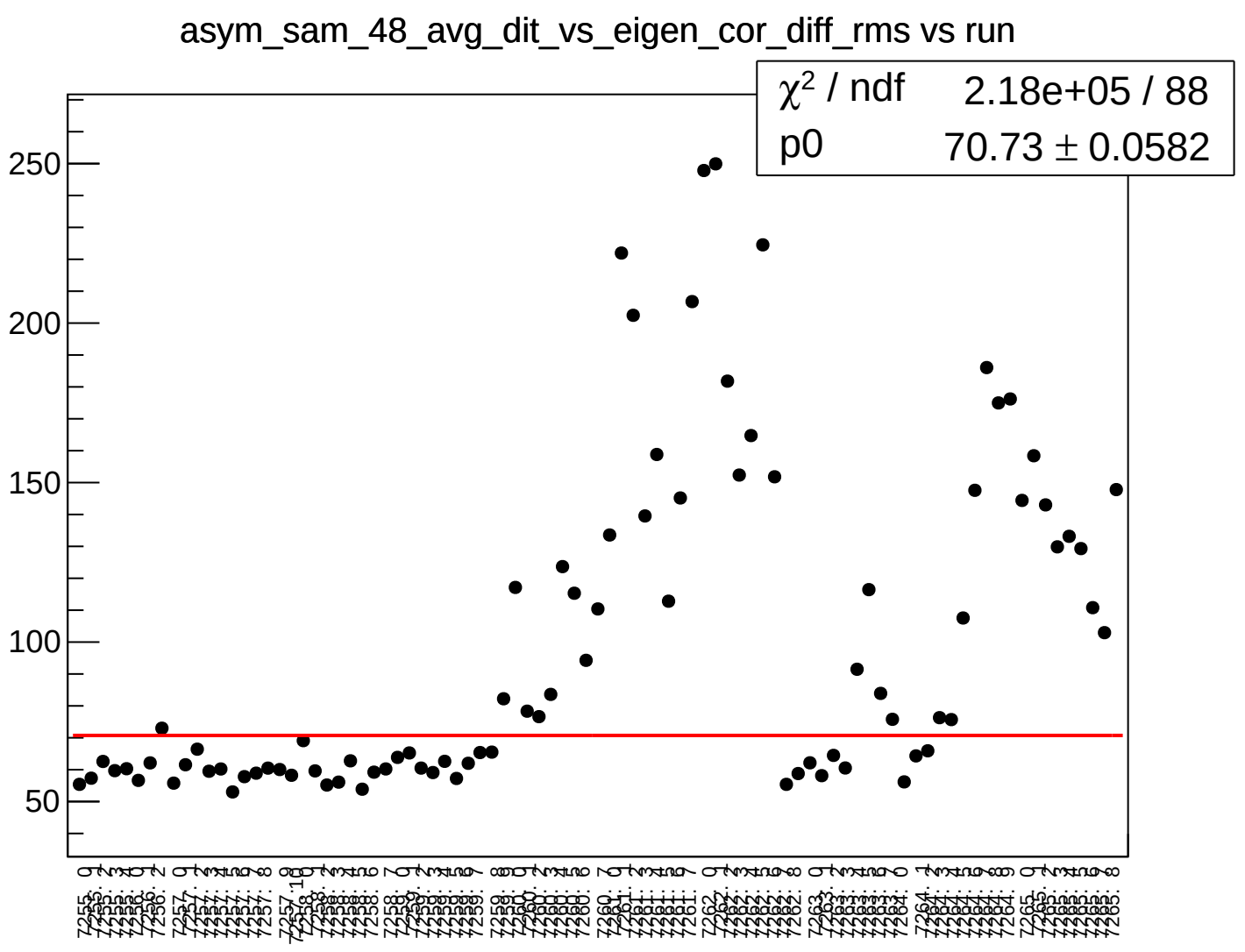

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 88
p0 0.06849 ± 0.0823
pull
Entries 89
Mean −11.53
Std Dev 0

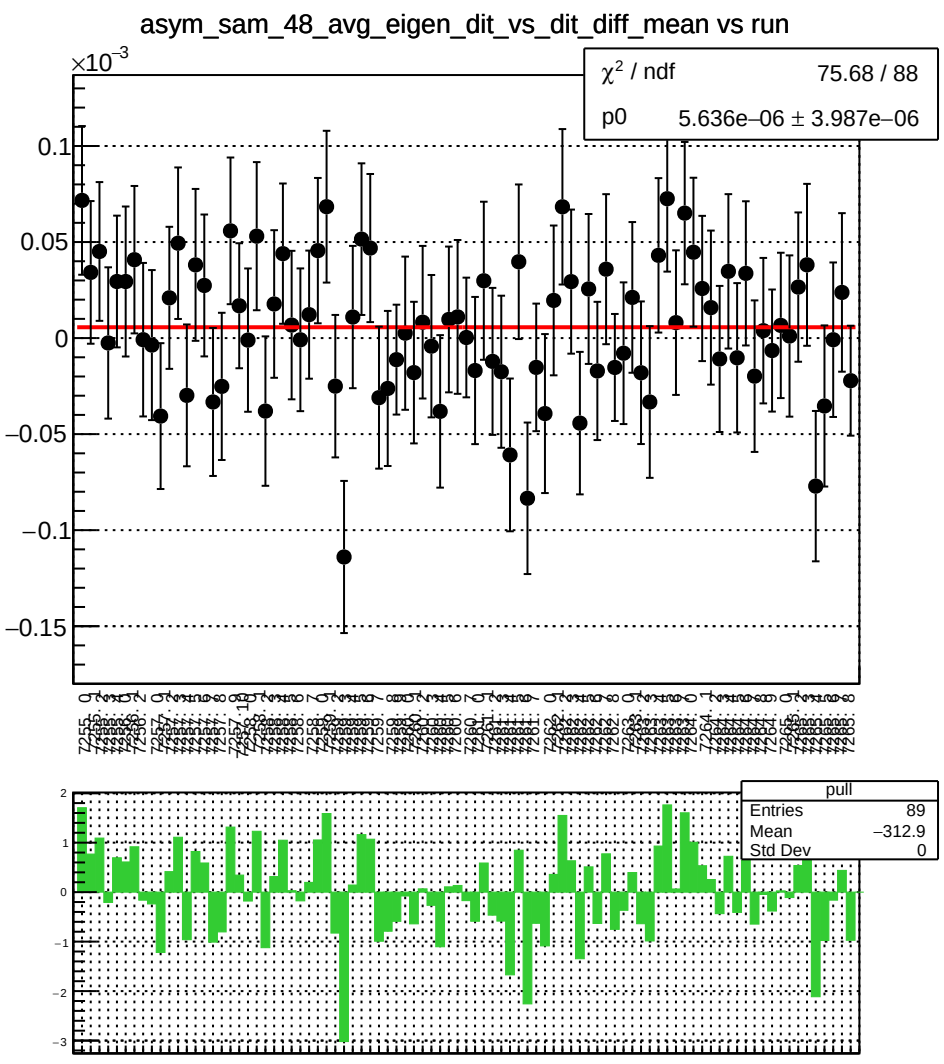

pull1D
Entries 89
Mean −0.03337
Std Dev 1.064

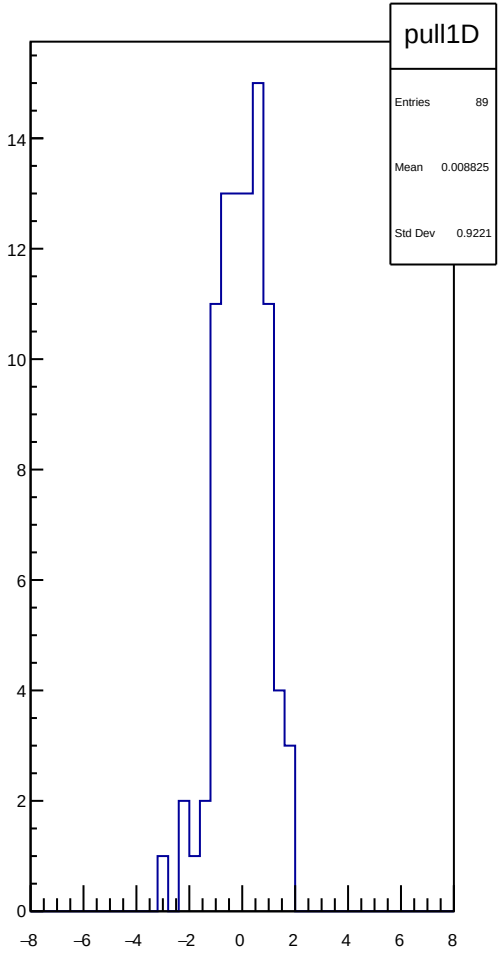

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.18e+05 / 88
p0 70.73 ± 0.0582
250
200
150
100
50

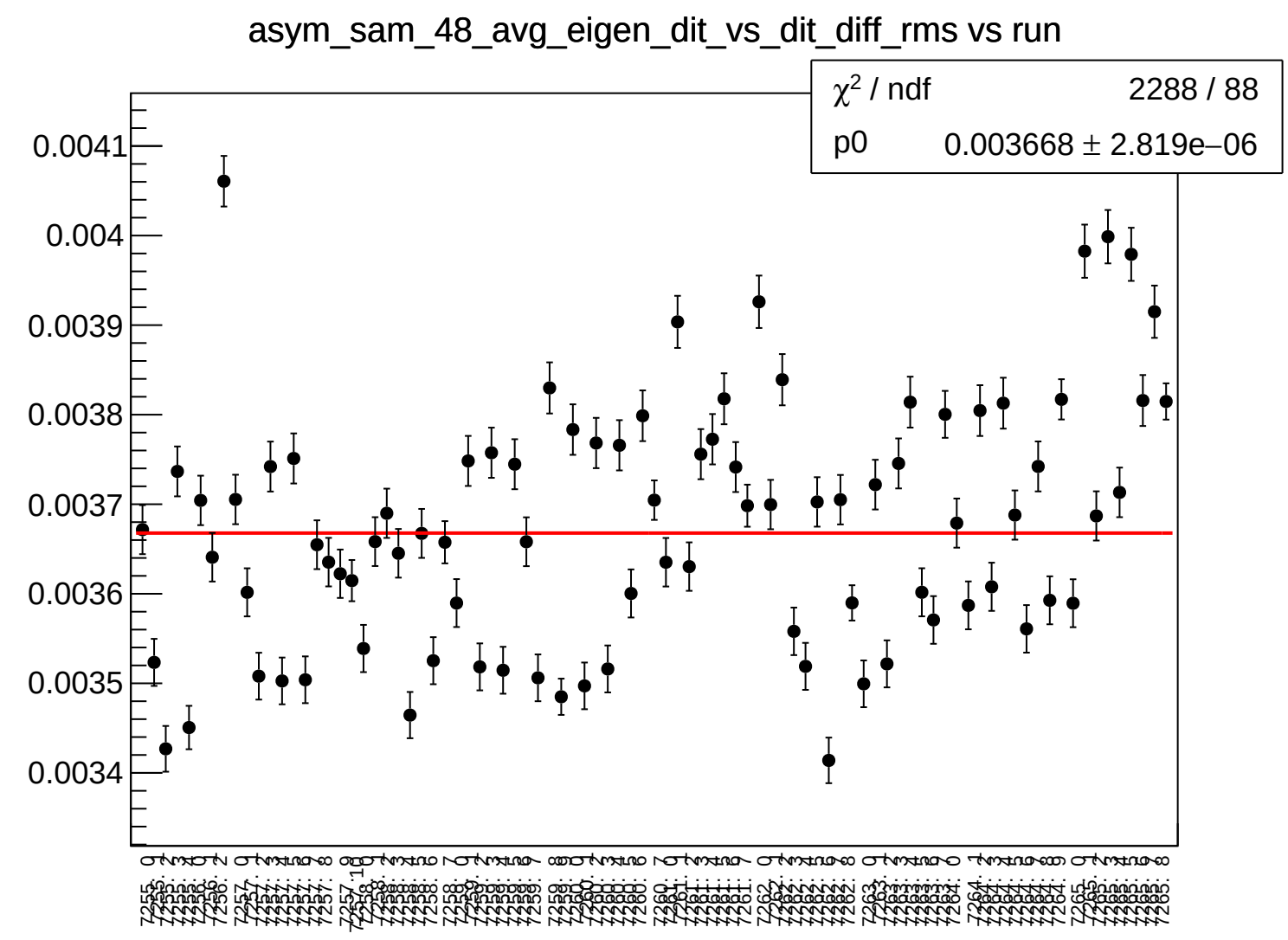

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 88
p0 0.06849 ± 0.0823
pull
Entries 89
Mean −11.53
Std Dev 0

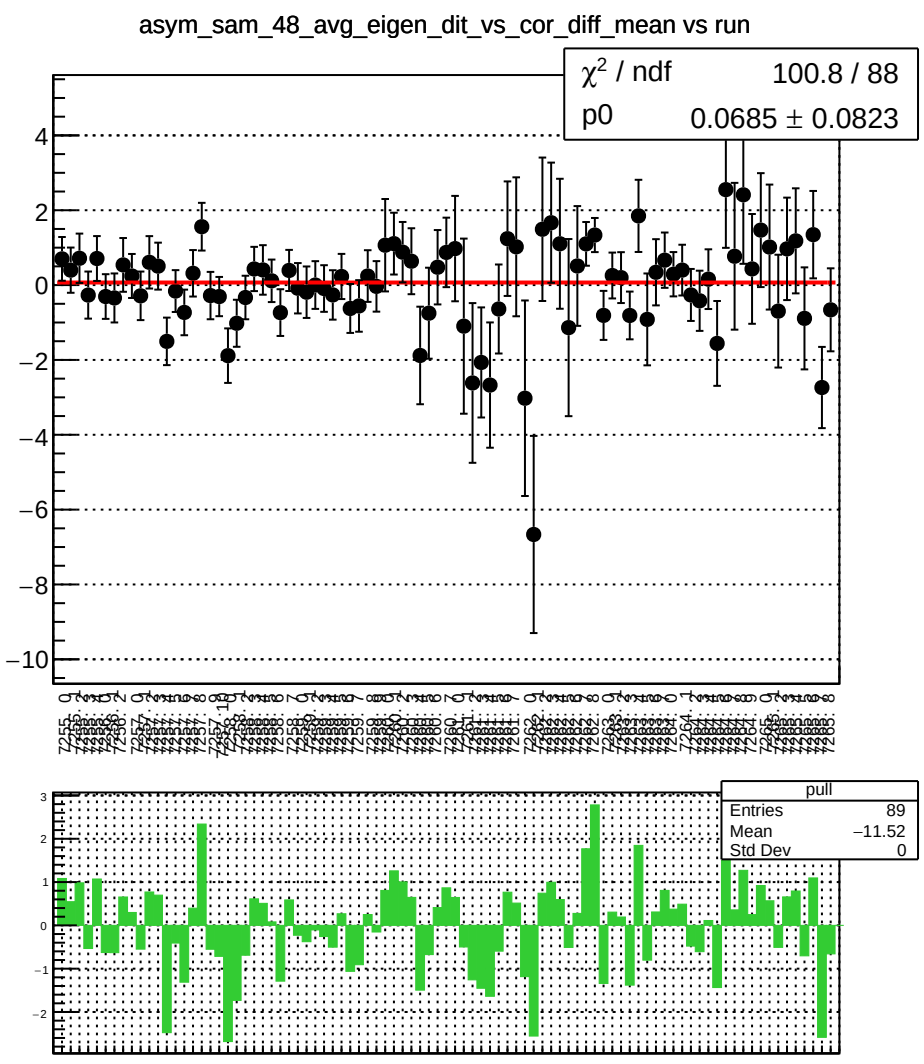

pull1D
Entries 89
Mean −0.03337
Std Dev 1.064

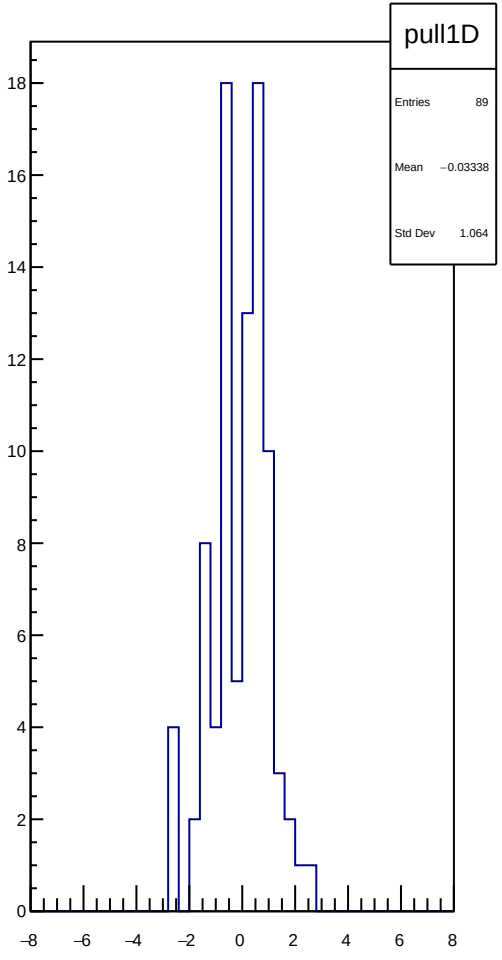

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.18e+05 / 88
p0 70.73 ± 0.0582
250
200
150
100
50

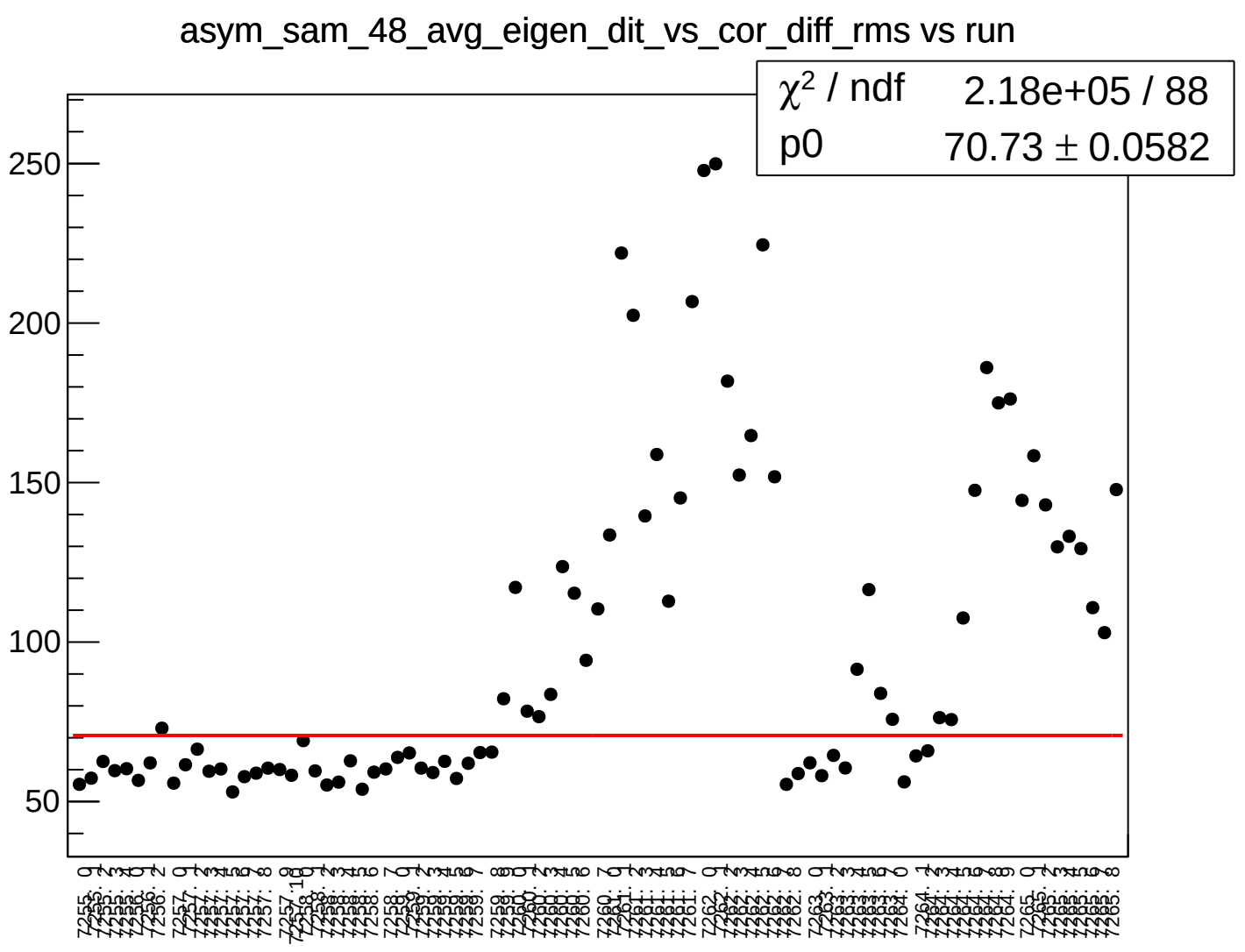

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.68 / 88
p0 5.636e−06 ± 3.987e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean −312.9
Std Dev 0
2
1
0
−1
−2
−3

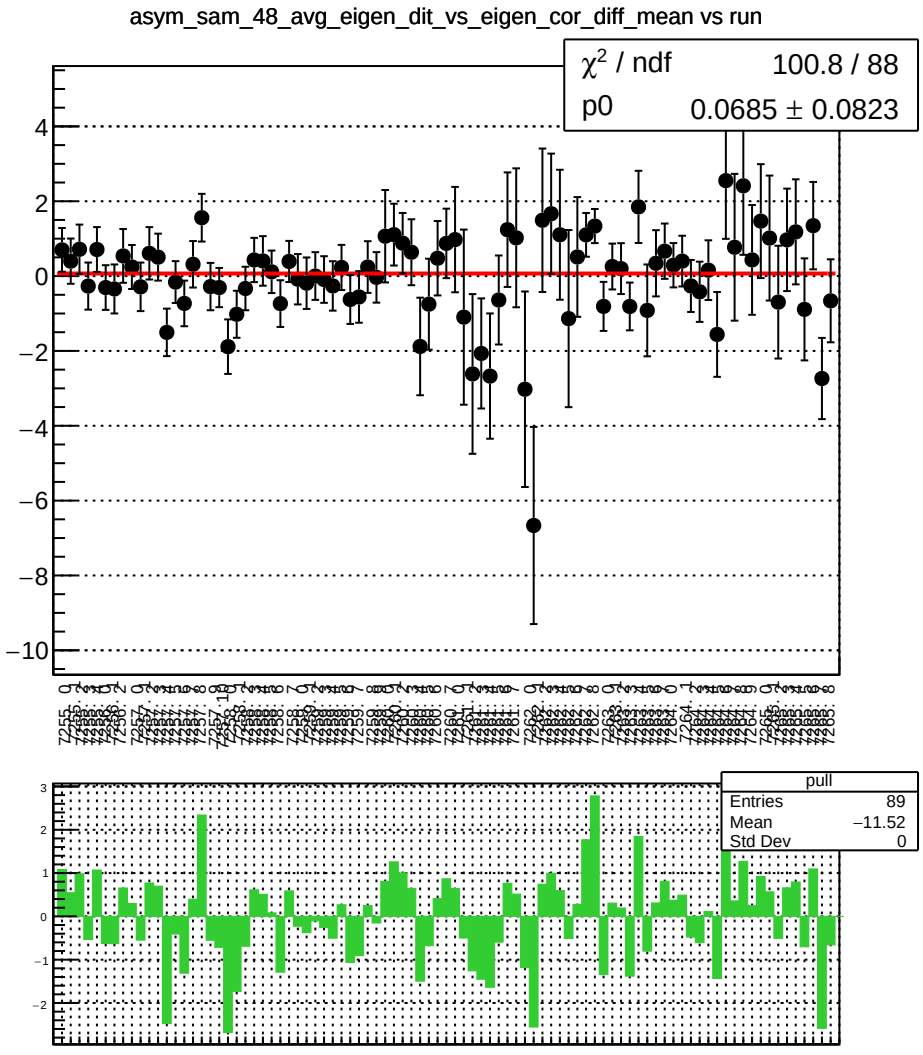

pull1D
Entries 89
Mean 0.008825
Std Dev 0.9221
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

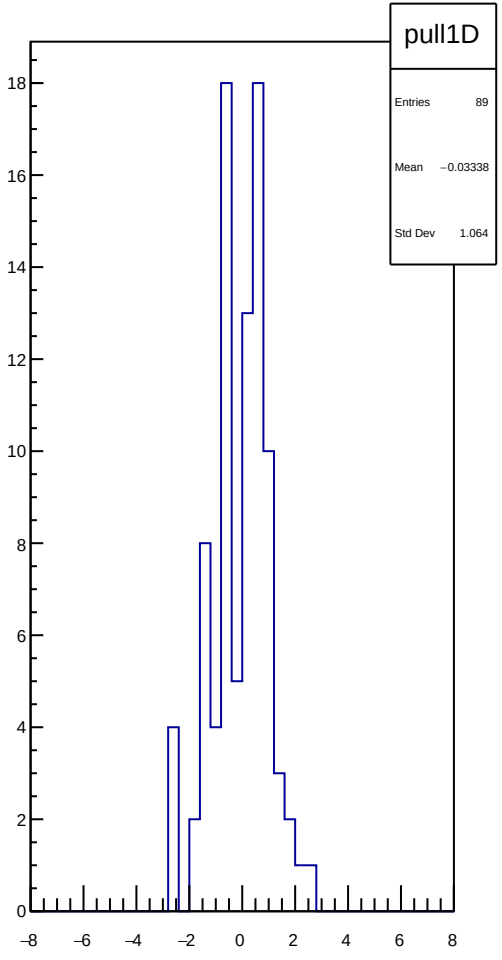

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2288 / 88
p0 0.003668 ± 2.819e−06
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034

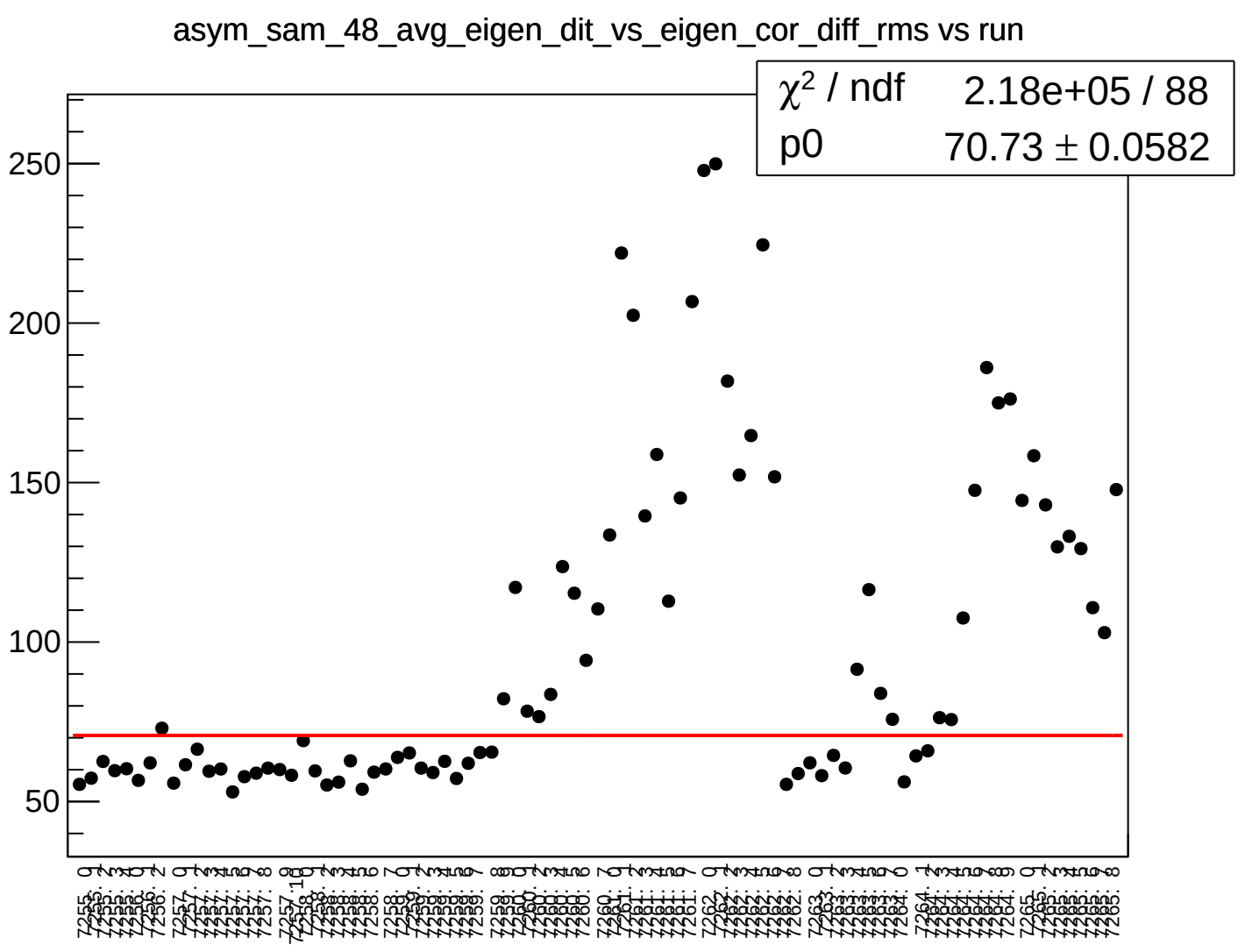

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 88
p0 0.0685 ± 0.0823
pull
Entries 89
Mean −11.52
Std Dev 0

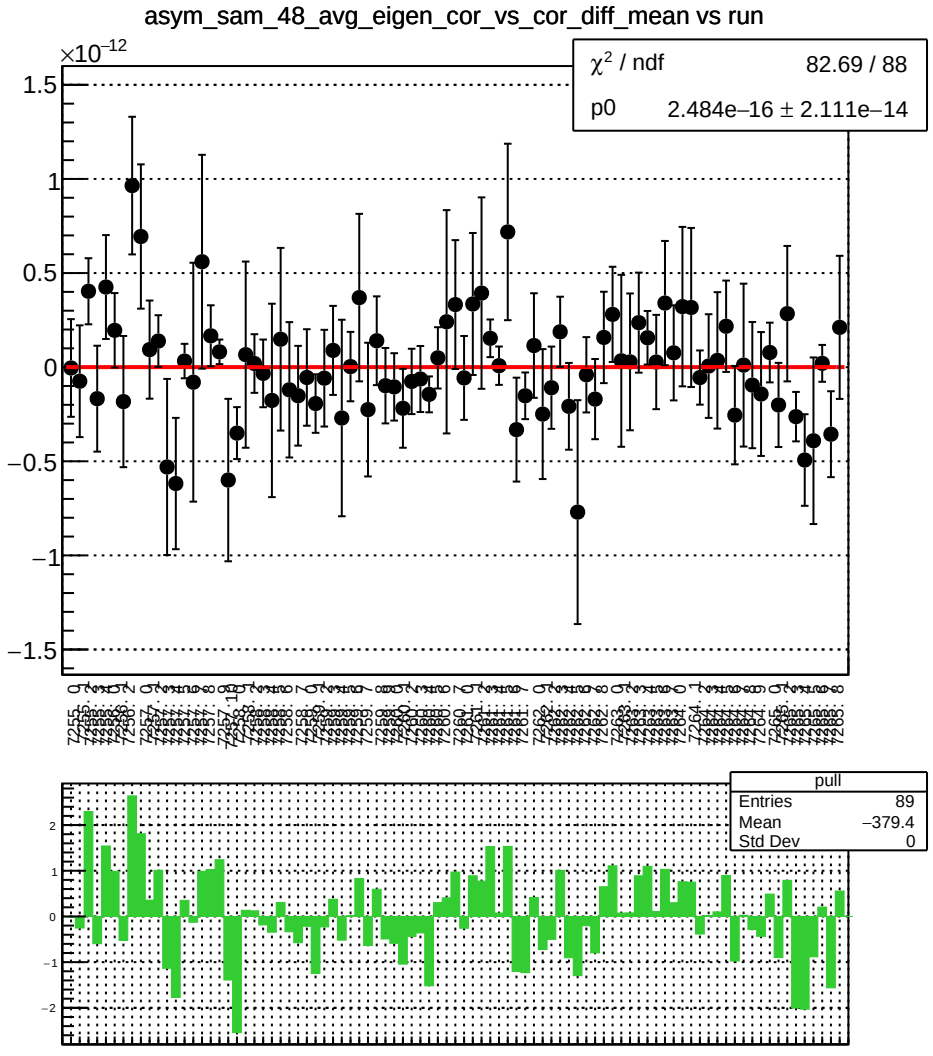

pull1D
Entries 89
Mean −0.03338
Std Dev 1.064

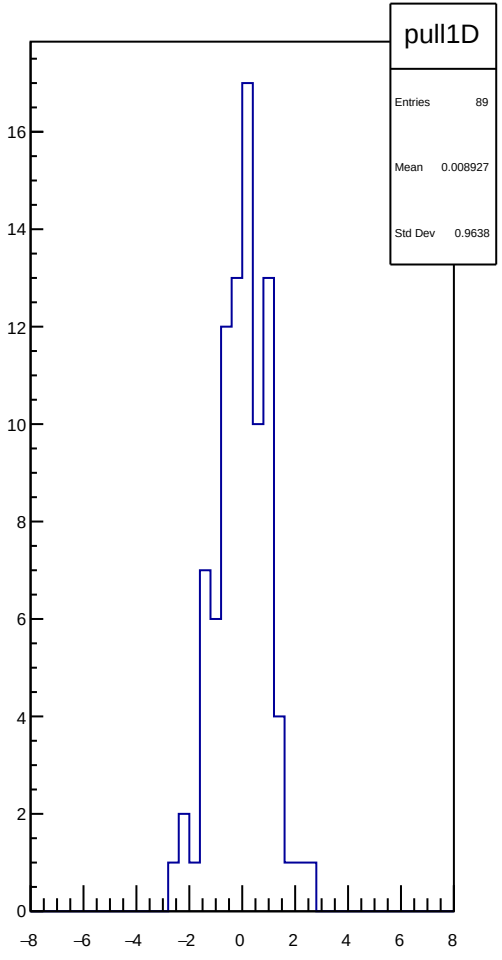

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.18e+05 / 88
p0 70.73 ± 0.0582
250
200
150
100
50

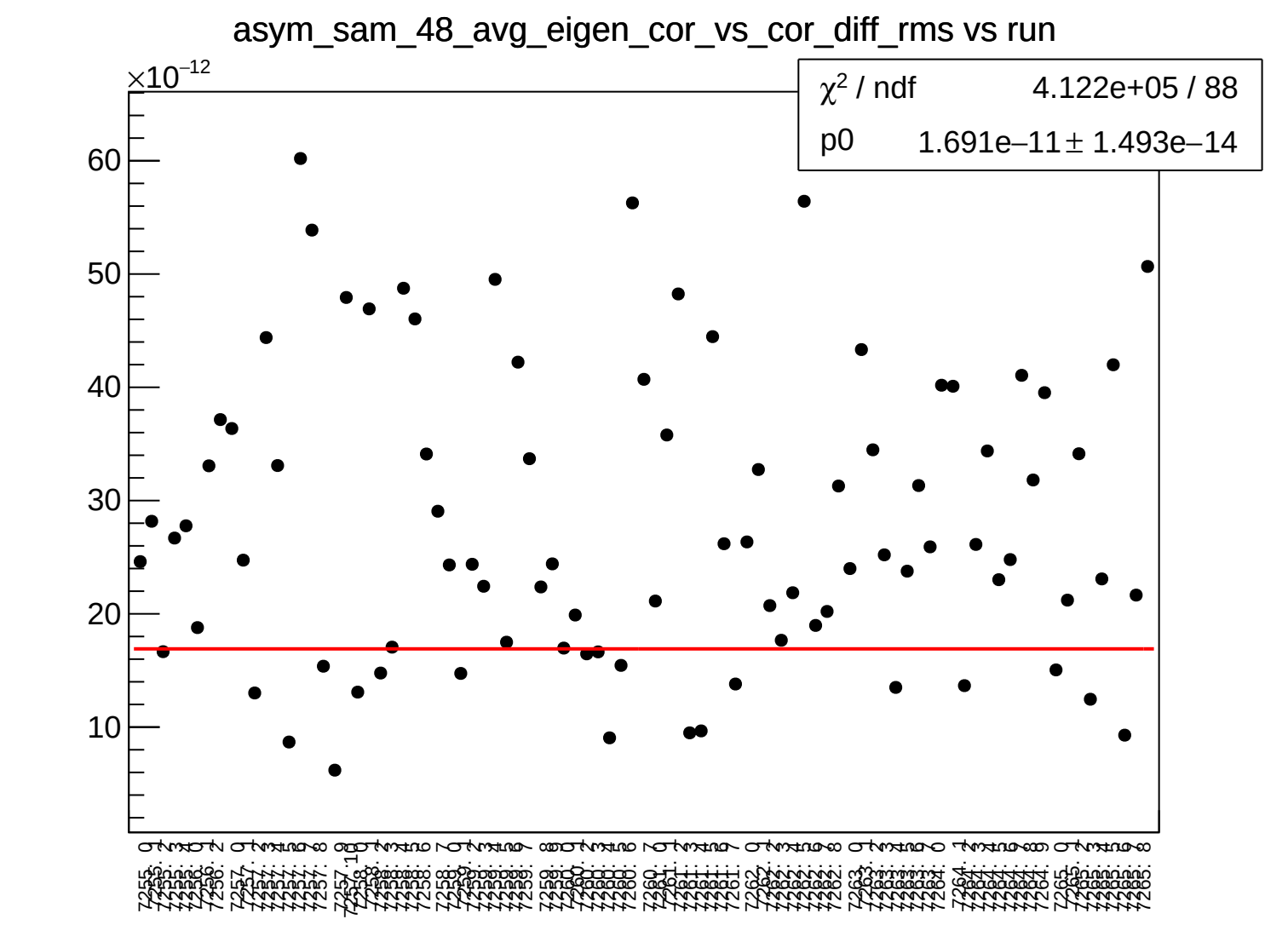

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 88
p0 0.0685 ± 0.0823
pull
Entries 89
Mean −11.52
Std Dev 0

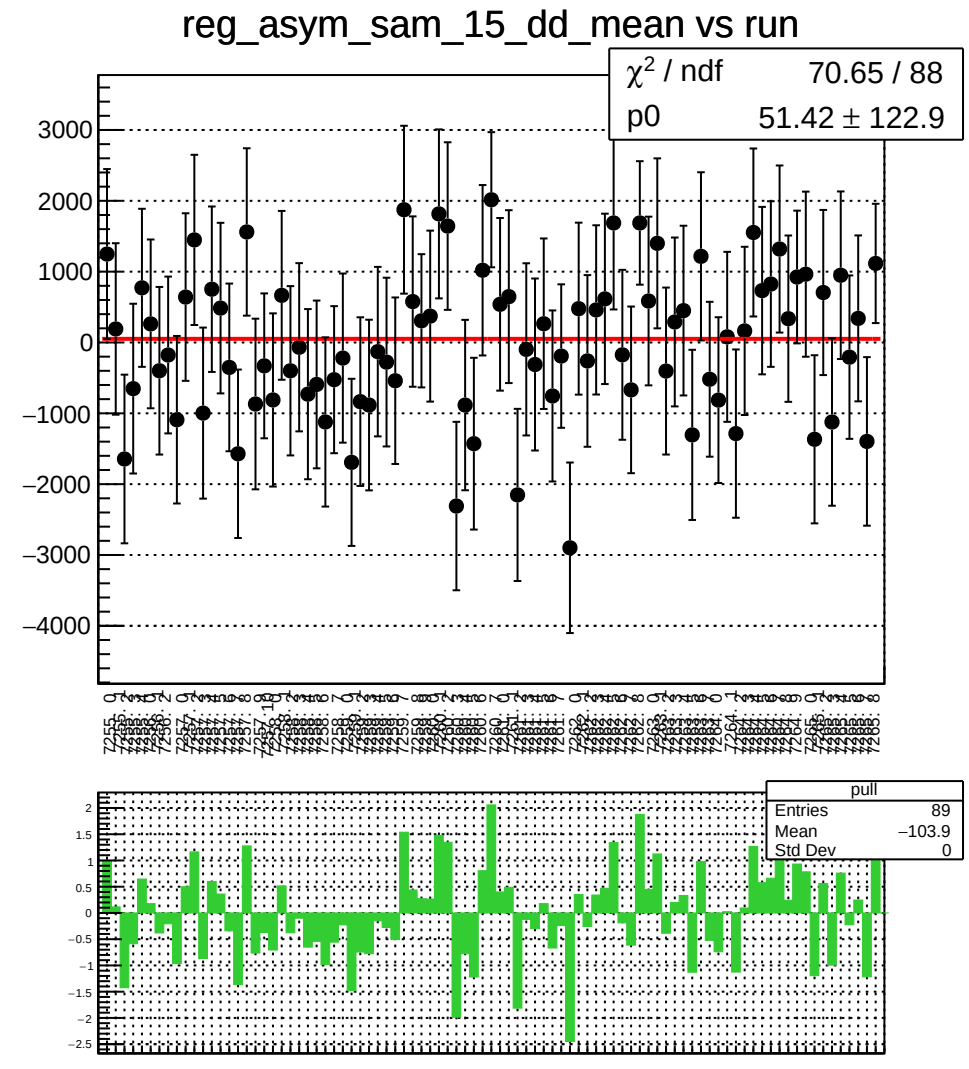

pull1D
Entries 89
Mean −0.03338
Std Dev 1.064

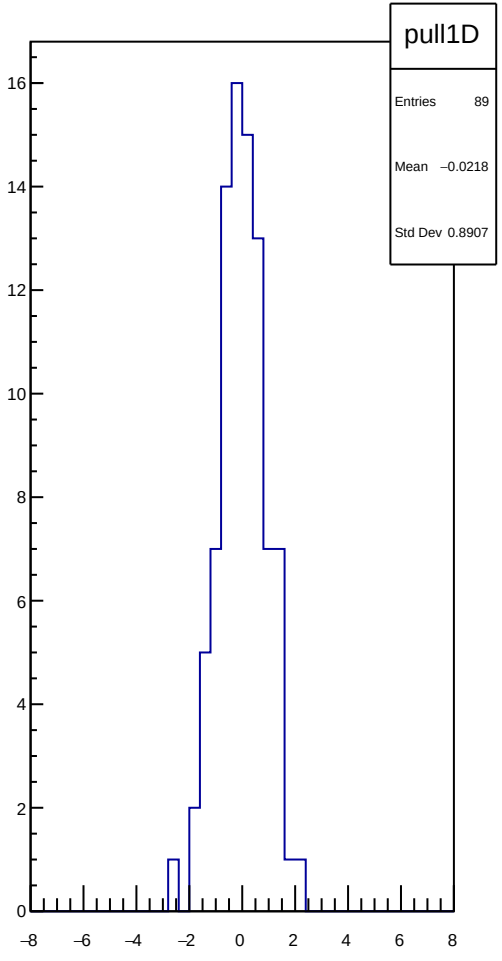

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.18e+05 / 88
p0 70.73 ± 0.0582
250
200
150
100
50

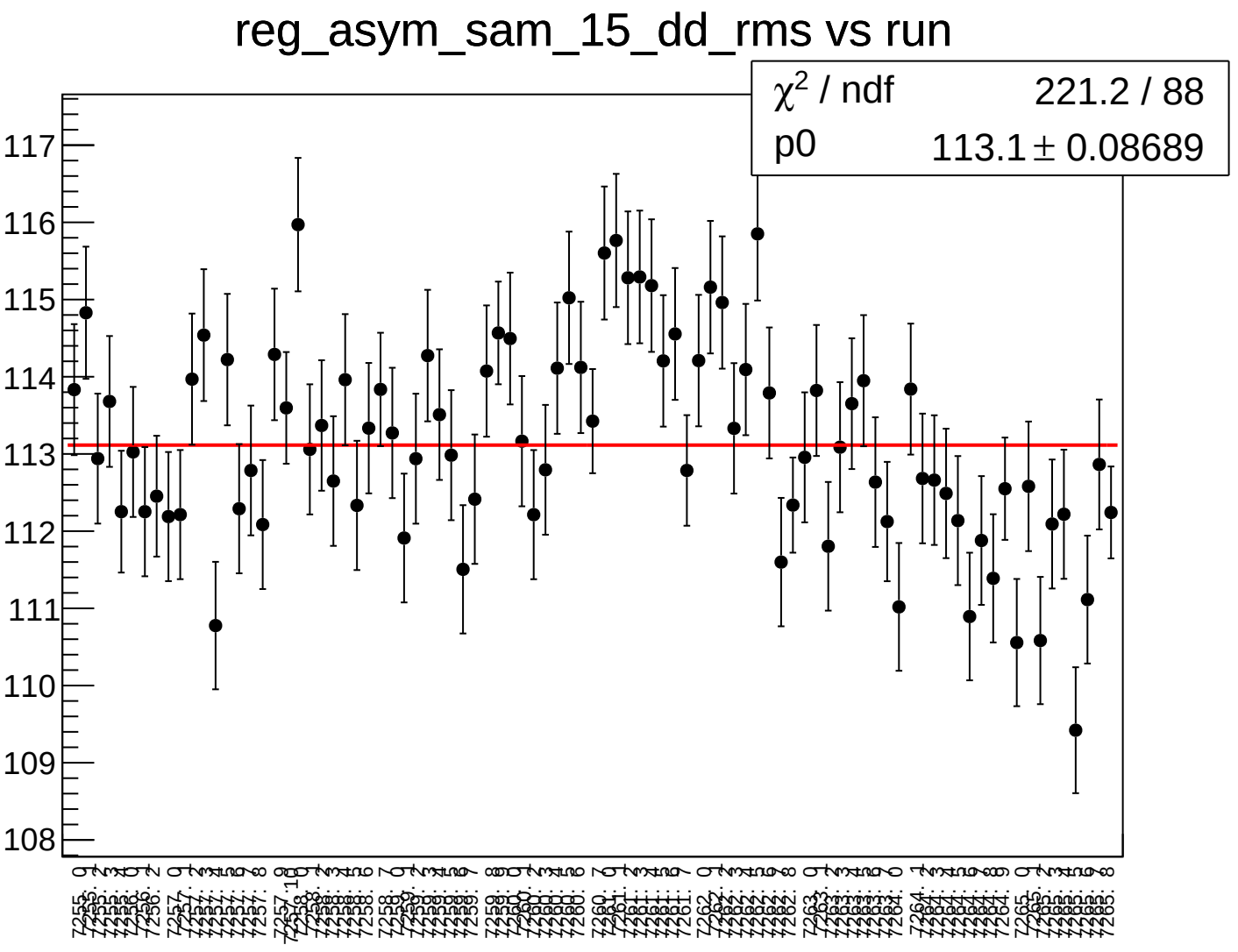

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.69 / 88
p0 2.484e−16 ± 2.111e−14
pull
Entries 89
Mean −379.4
Std Dev 0

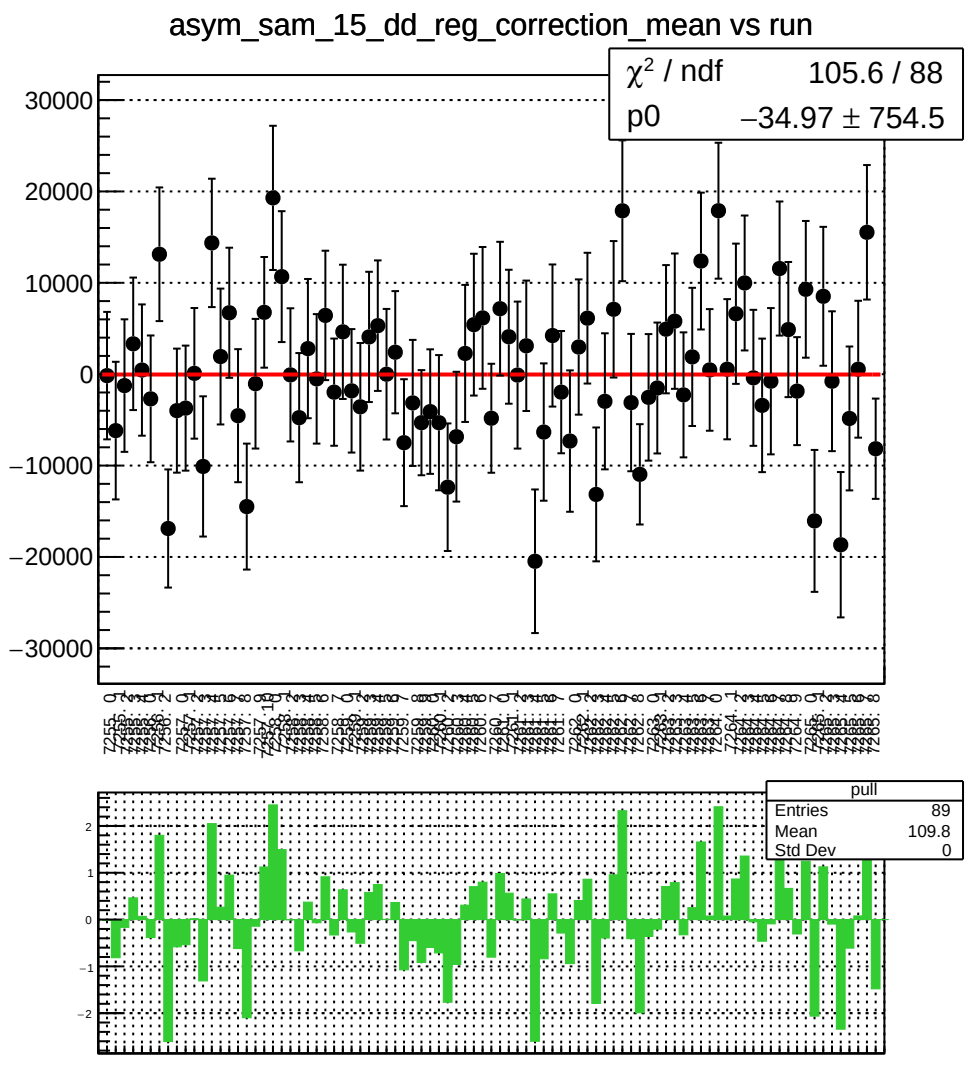

pull1D
Entries 89
Mean 0.008927
Std Dev 0.9638

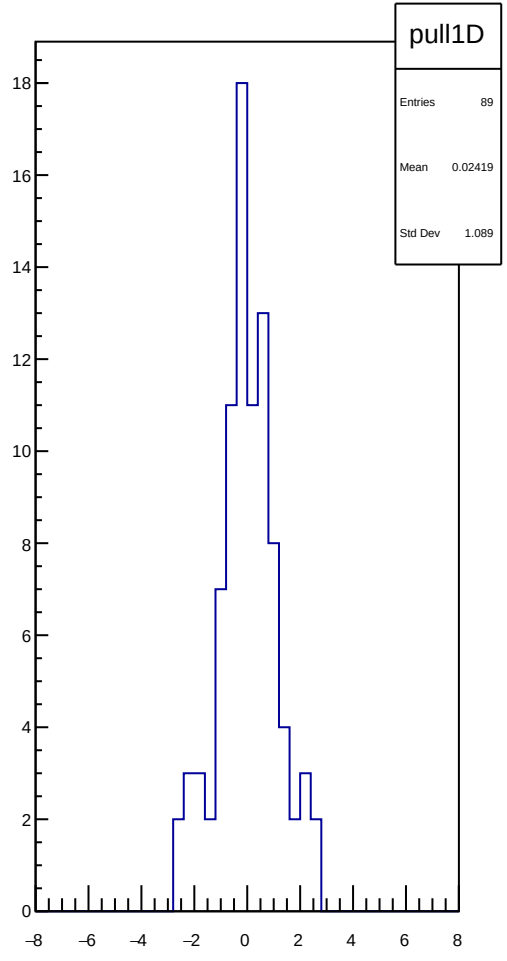

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.122e+05 / 88
p0 1.691e−11 ± 1.493e−14
60
50
40
30
20
10

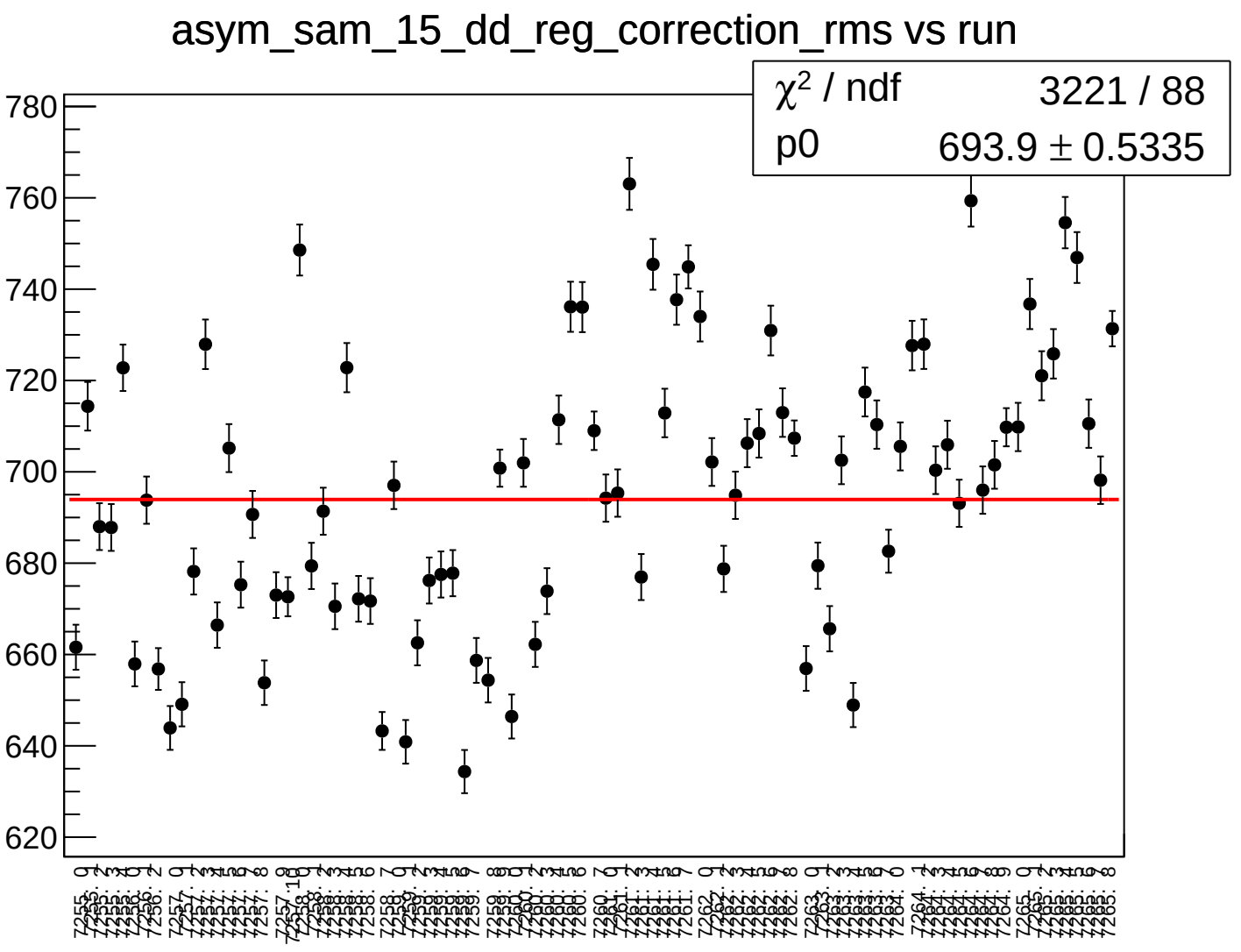

reg_asym_sam_15_dd_mean vs run
χ² / ndf 70.65 / 88
p0 51.42 ± 122.9
pull
Entries 89
Mean −103.9
Std Dev 0

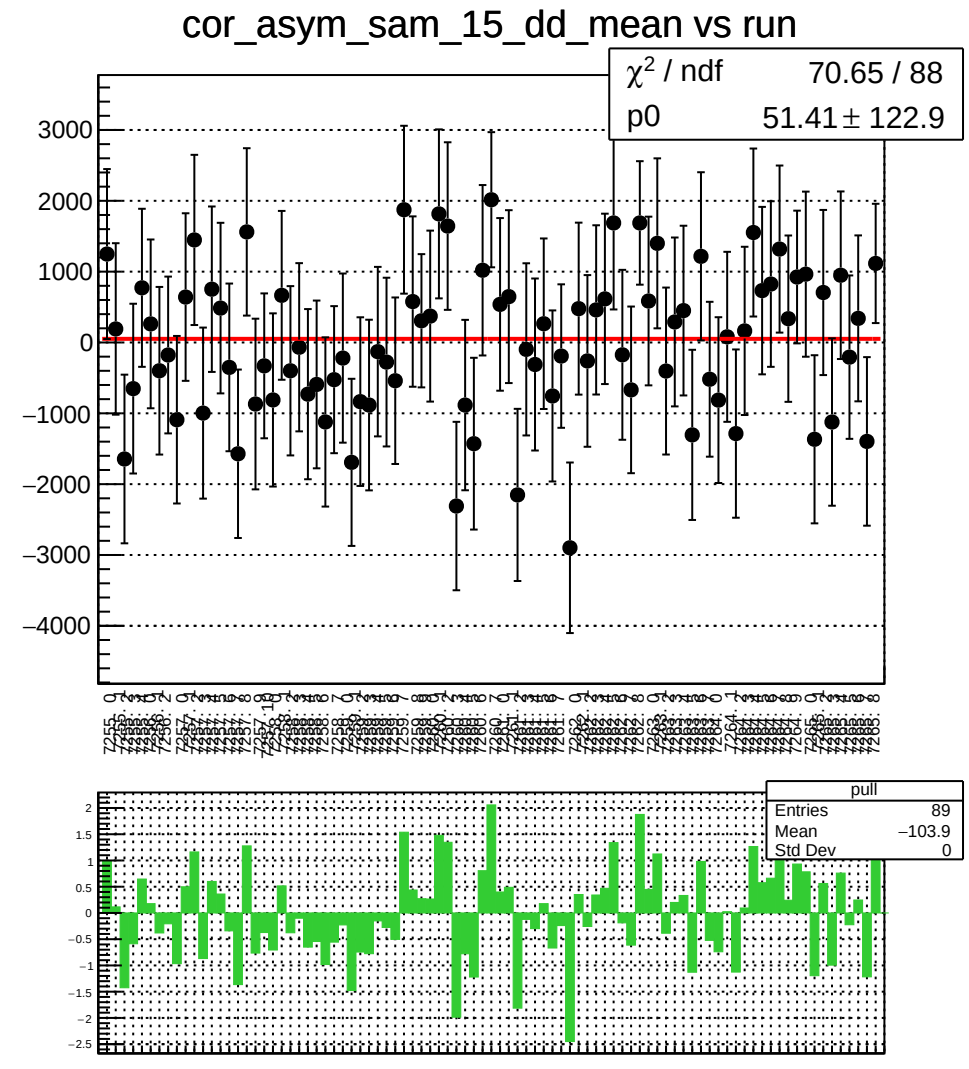

pull1D
Entries 89
Mean −0.0218
Std Dev 0.8907

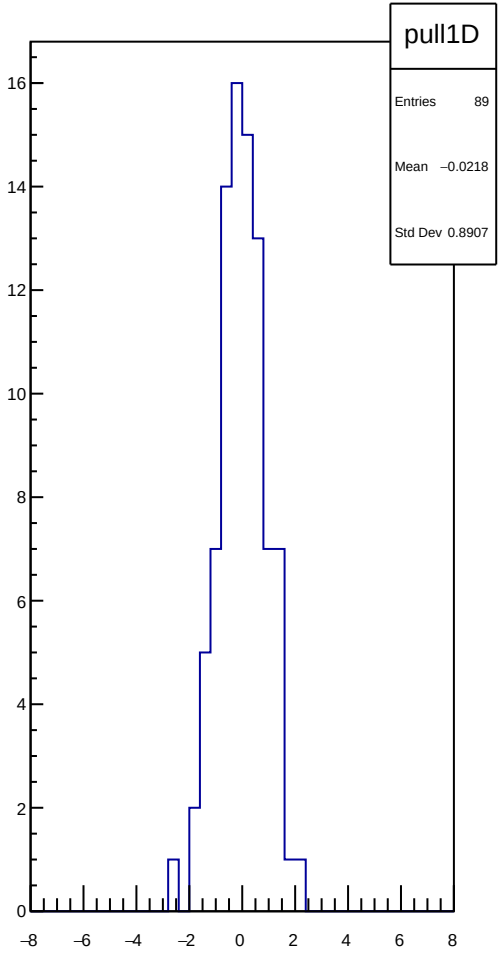

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 221.2 / 88
p0 113.1 ± 0.08689
117
116
115
114
113
112
111
110
109
108

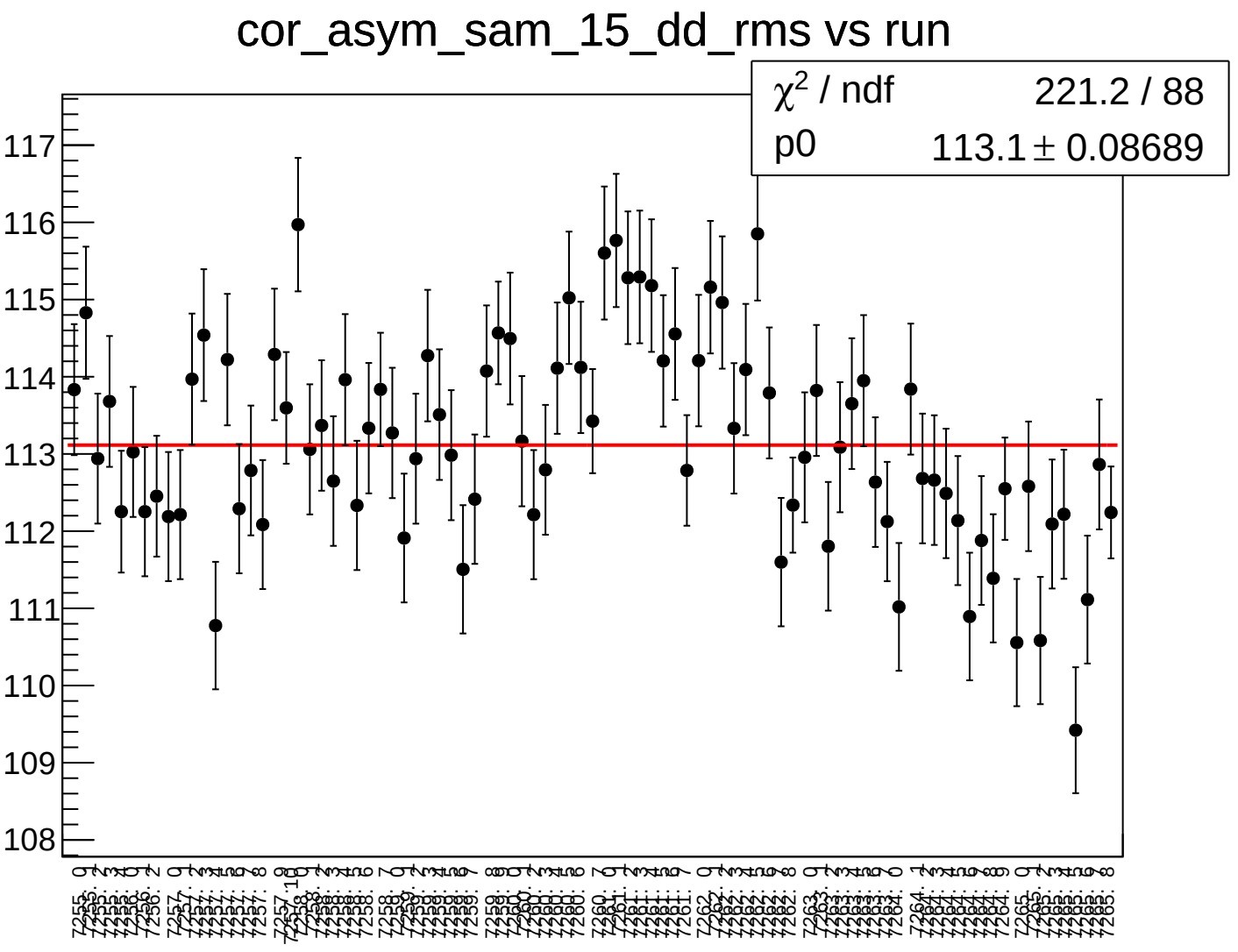

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 105.6 / 88
p0 −34.97 ± 754.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 109.8
Std Dev 0
2
1
0
−1
−2

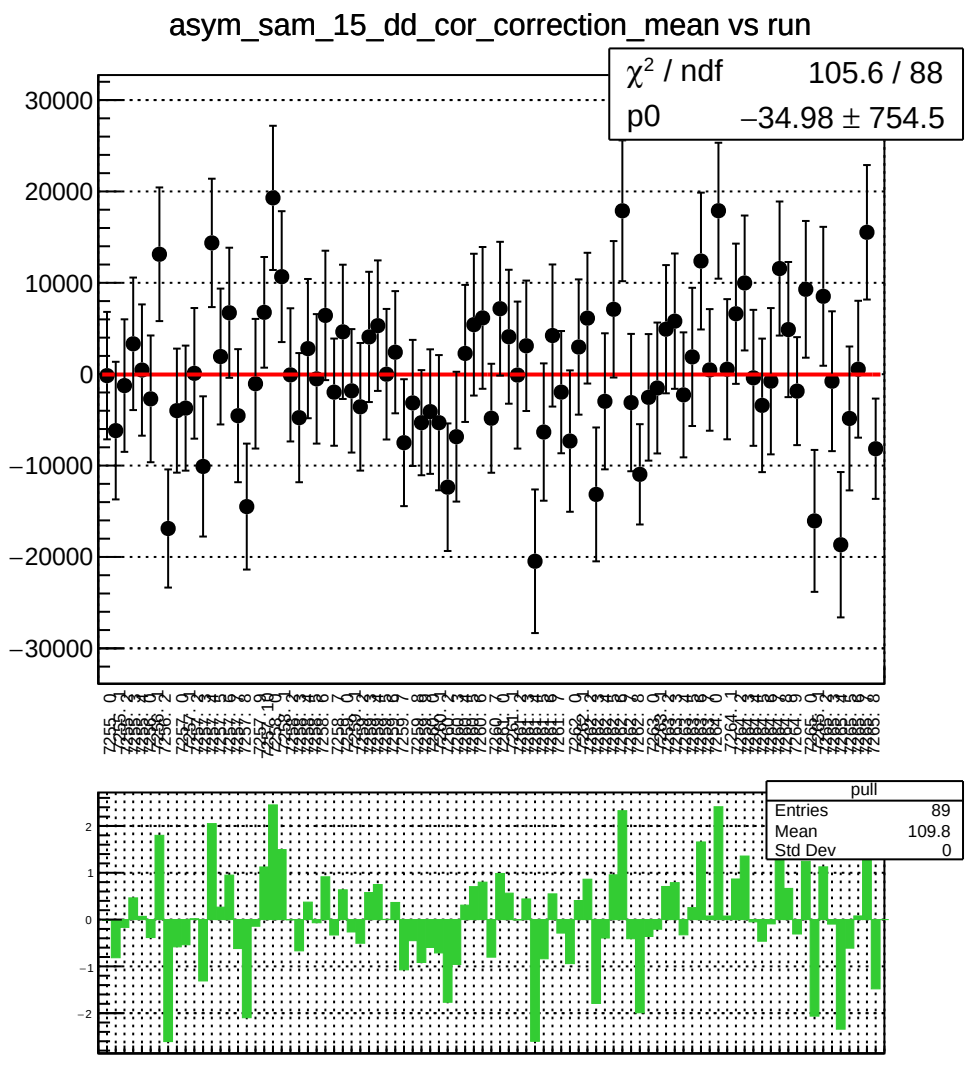

pull1D
Entries 89
Mean 0.02419
Std Dev 1.089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

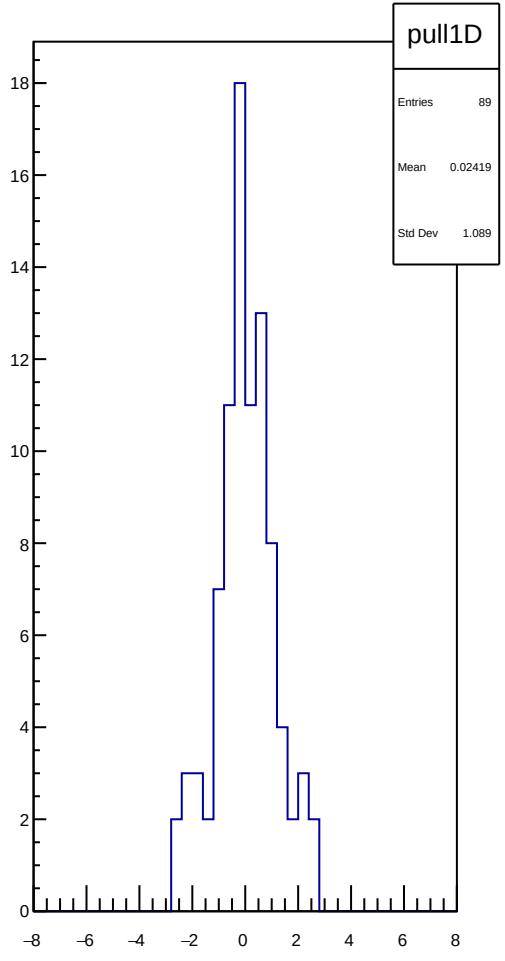

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 3221 / 88
p0 693.9 ± 0.5335
780
760
740
720
700
680
660
640
620

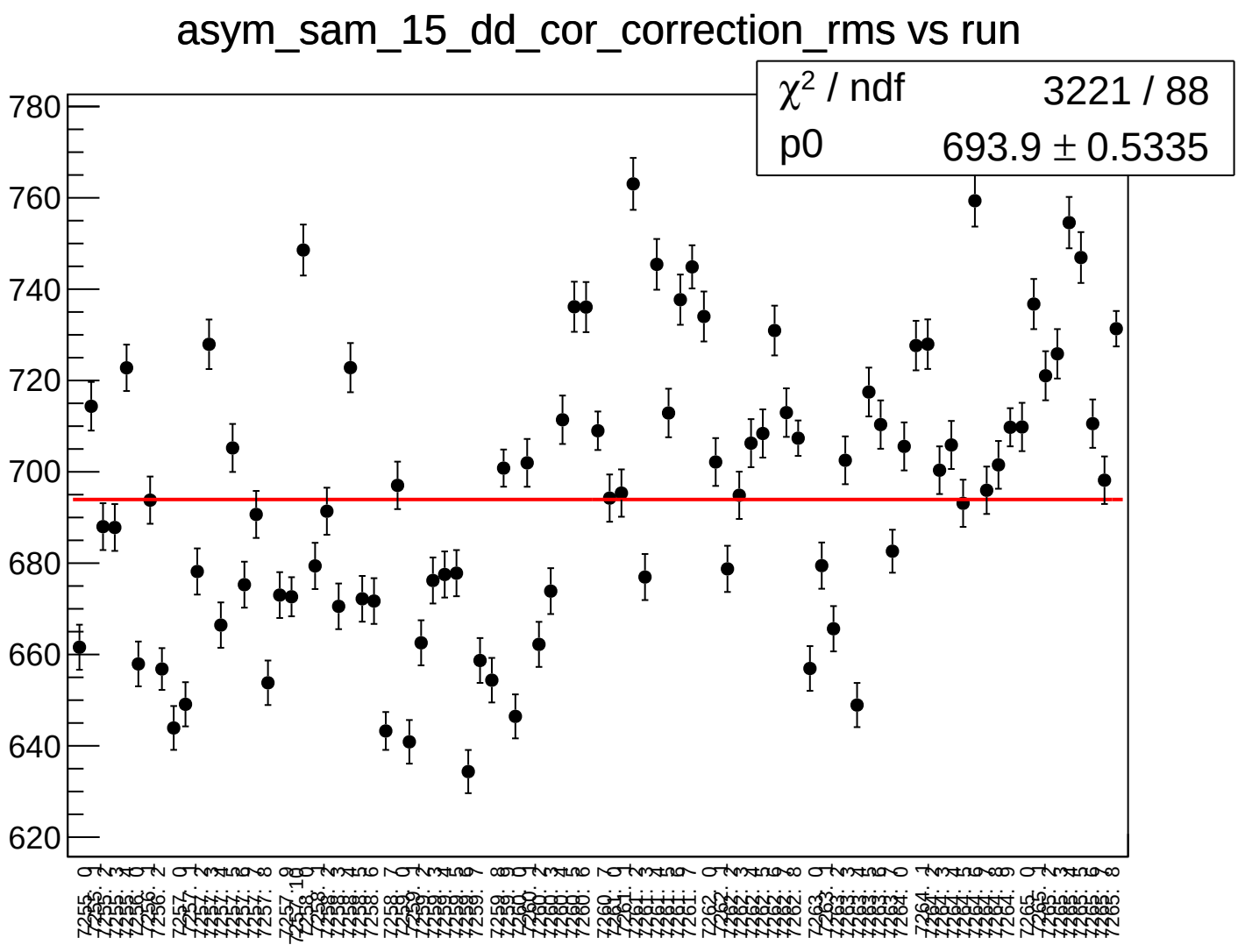

cor_asym_sam_15_dd_mean vs run
χ² / ndf 70.65 / 88
p0 51.41 ± 122.9
pull
Entries 89
Mean −103.9
Std Dev 0

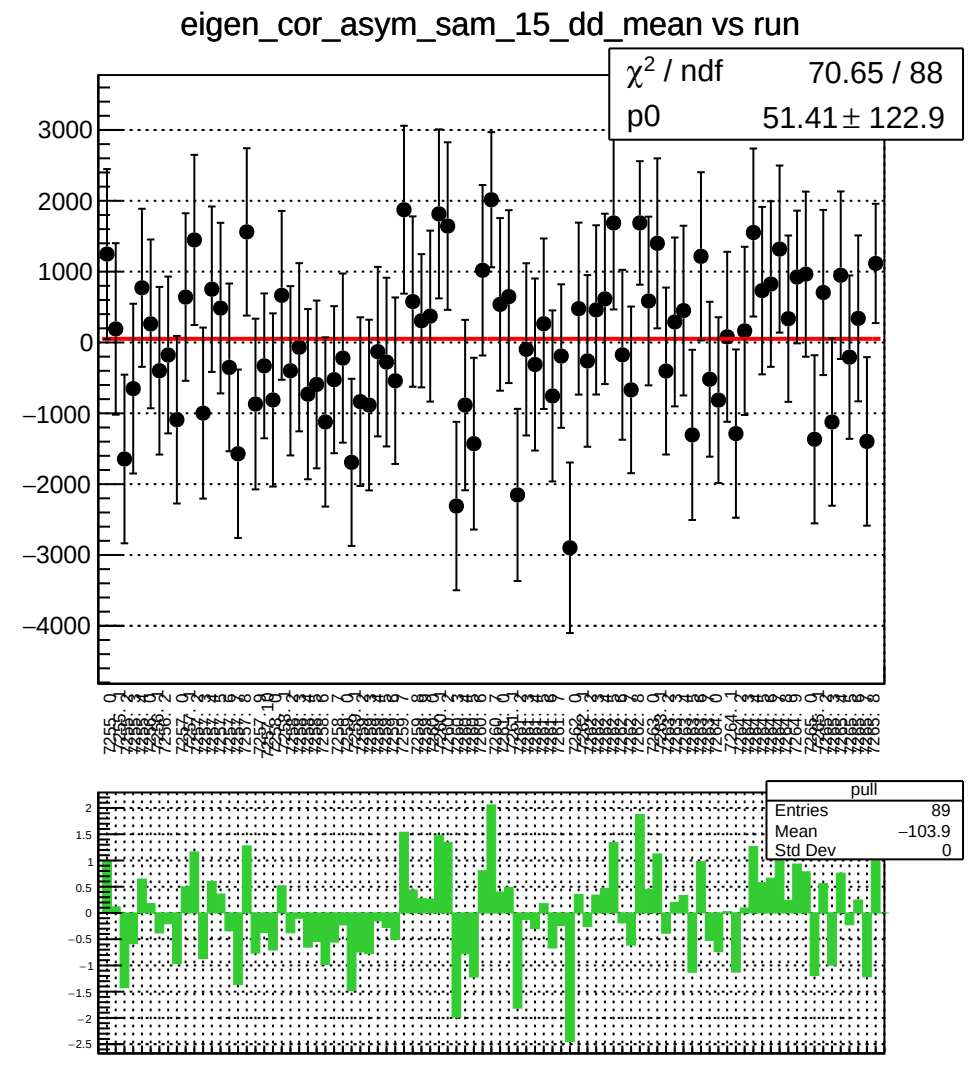

pull1D
Entries 89
Mean −0.0218
Std Dev 0.8907

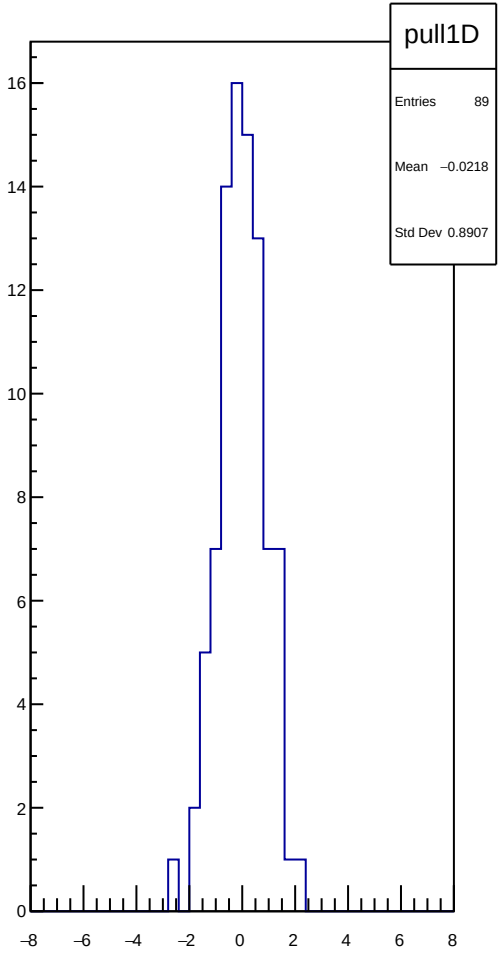

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 221.2 / 88
p0 113.1 ± 0.08689
117
116
115
114
113
112
111
110
109
108

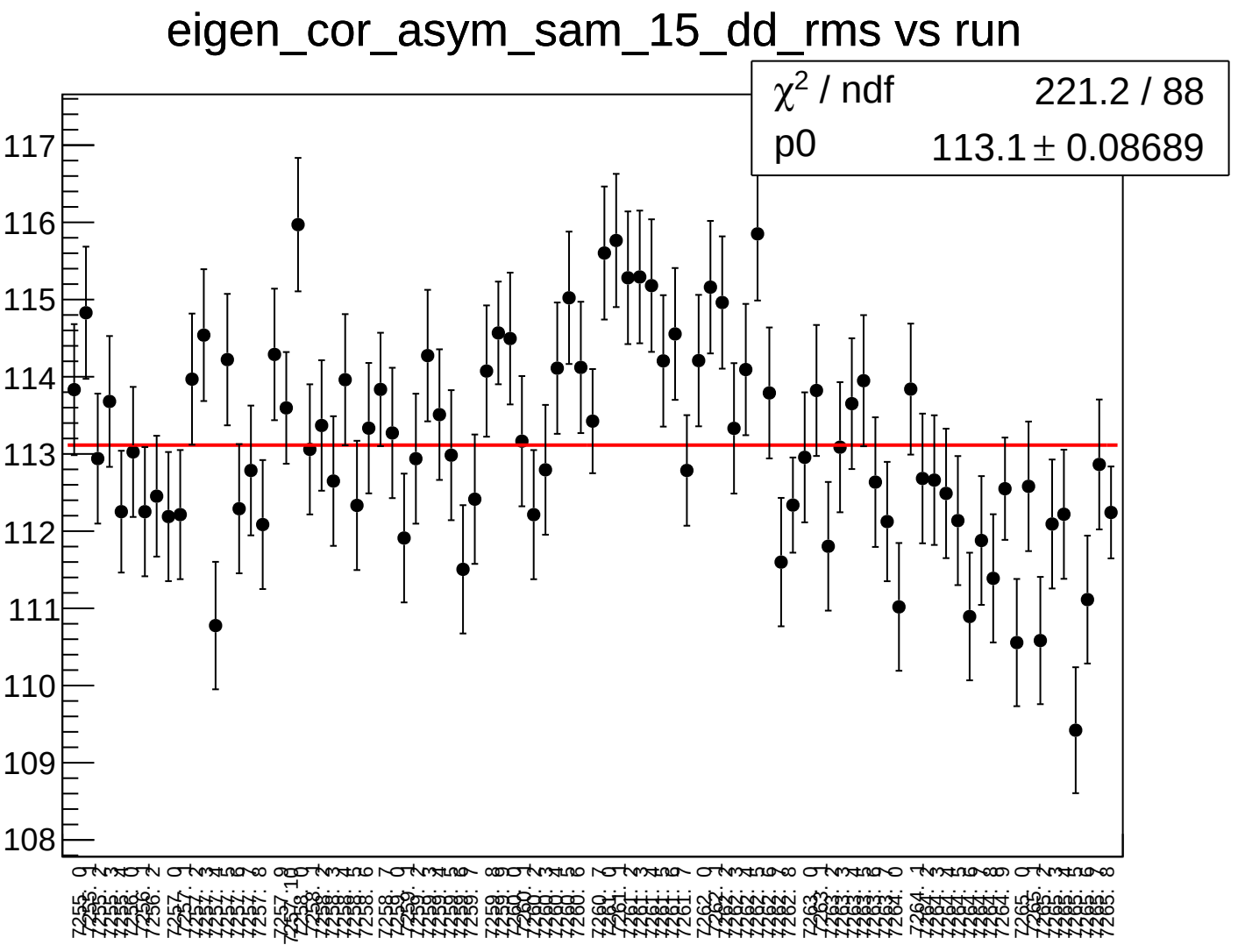

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 105.6 / 88
p0 −34.98 ± 754.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 109.8
Std Dev 0
2
1
0
−1
−2

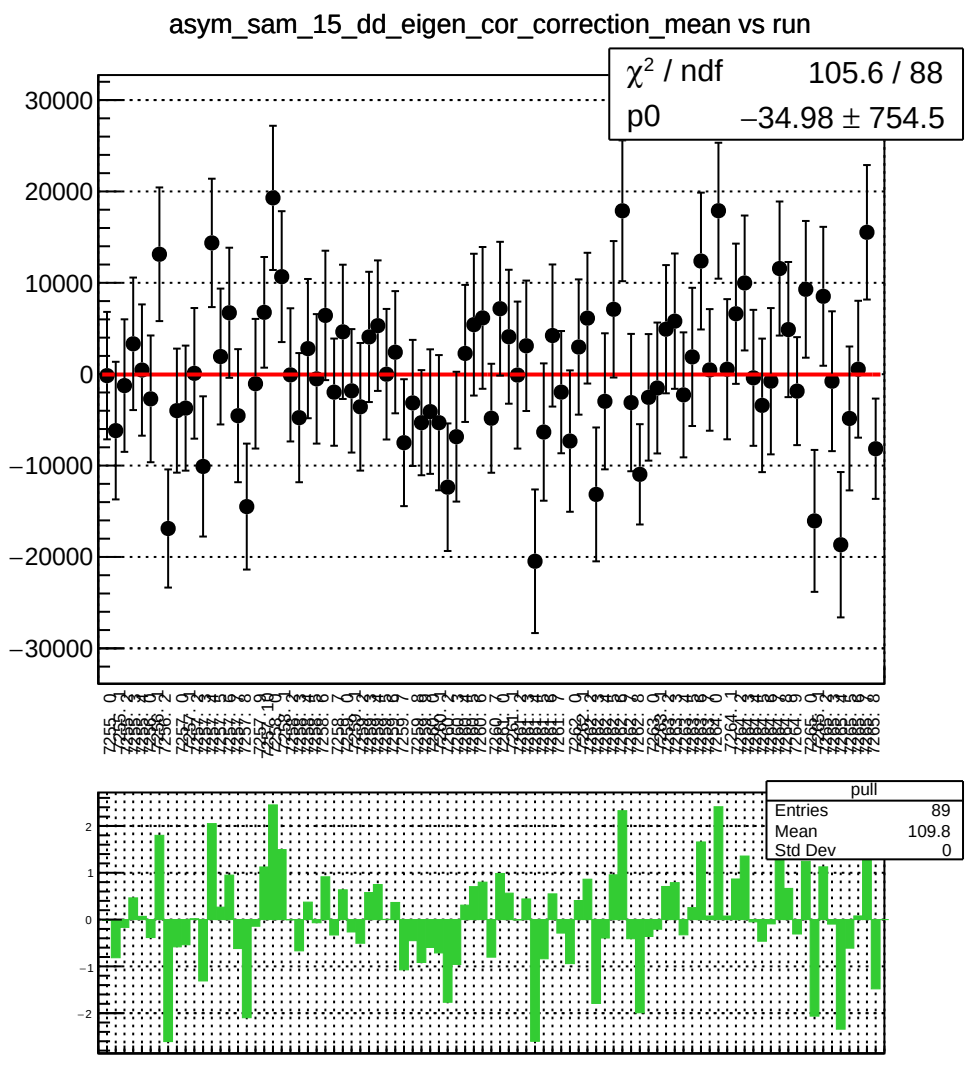

pull1D
Entries 89
Mean 0.02419
Std Dev 1.089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

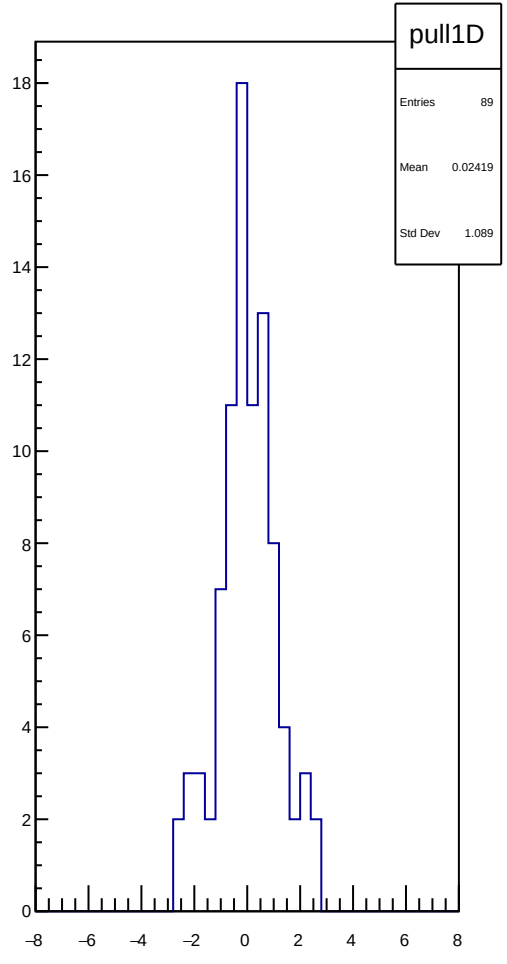

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 3221 / 88
p0 693.9 ± 0.5335
780
760
740
720
700
680
660
640
620

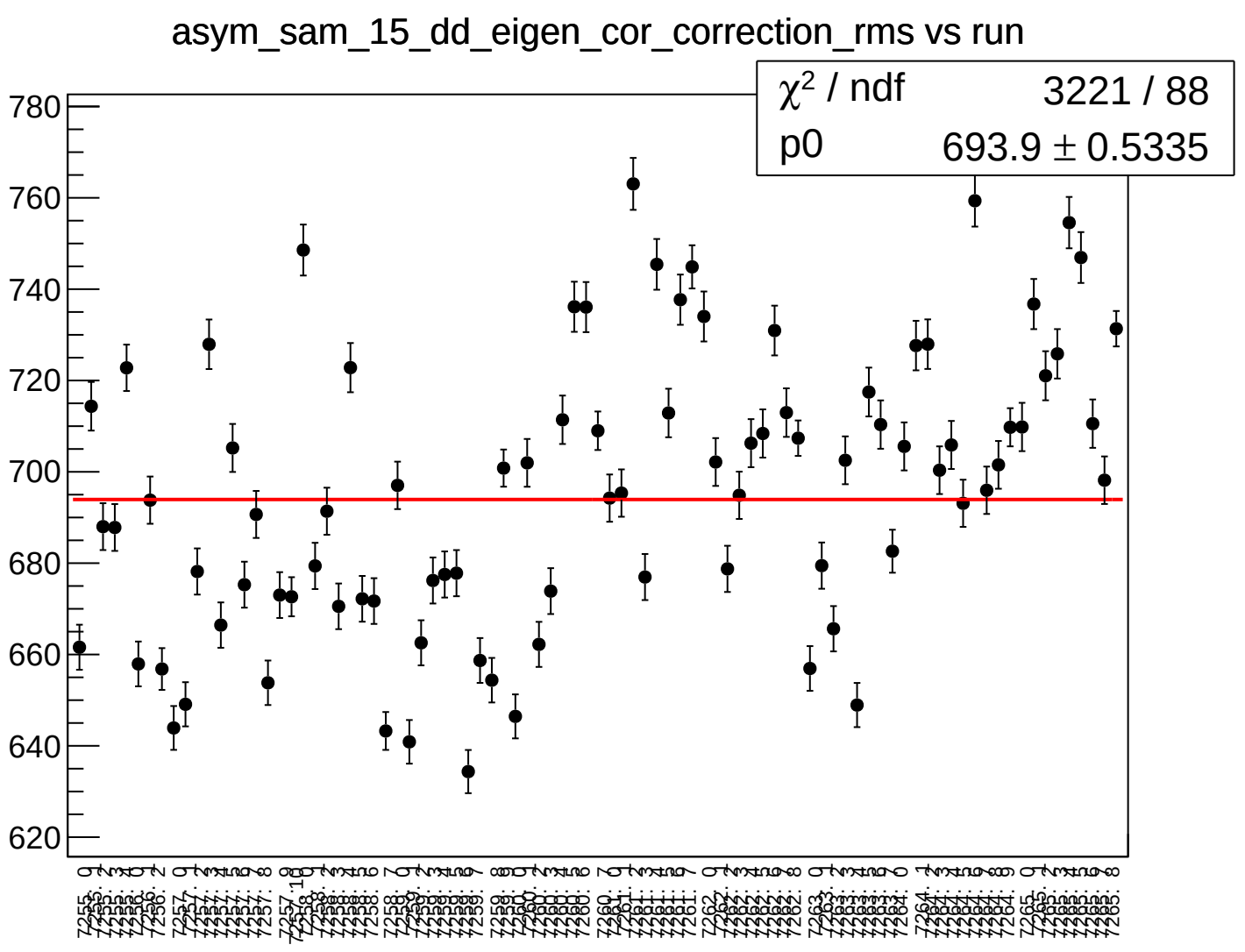

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 70.65 / 88
p0 51.41 ± 122.9
pull
Entries 89
Mean −103.9
Std Dev 0

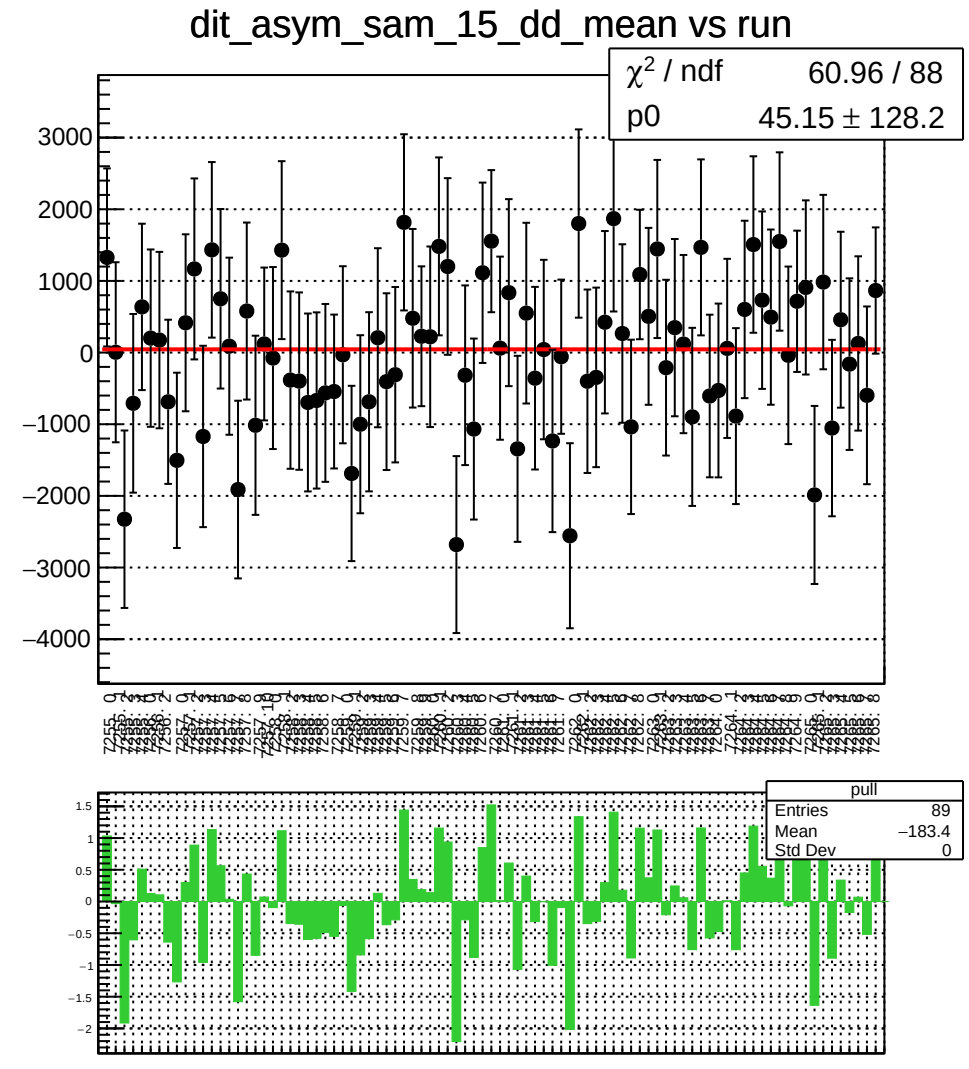

pull1D
Entries 89
Mean −0.0218
Std Dev 0.8907

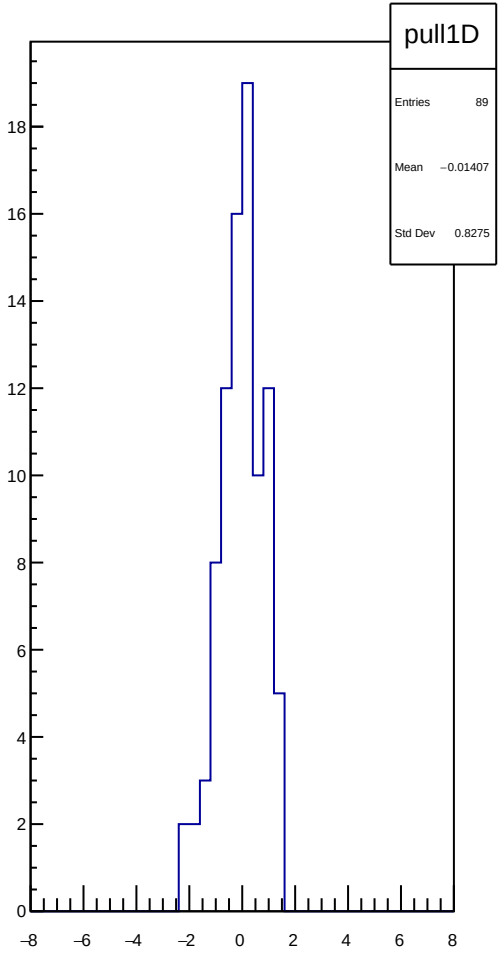

eigen_cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 221.2 / 88
p0 113.1 ± 0.08689
117
116
115
114
113
112
111
110
109
108

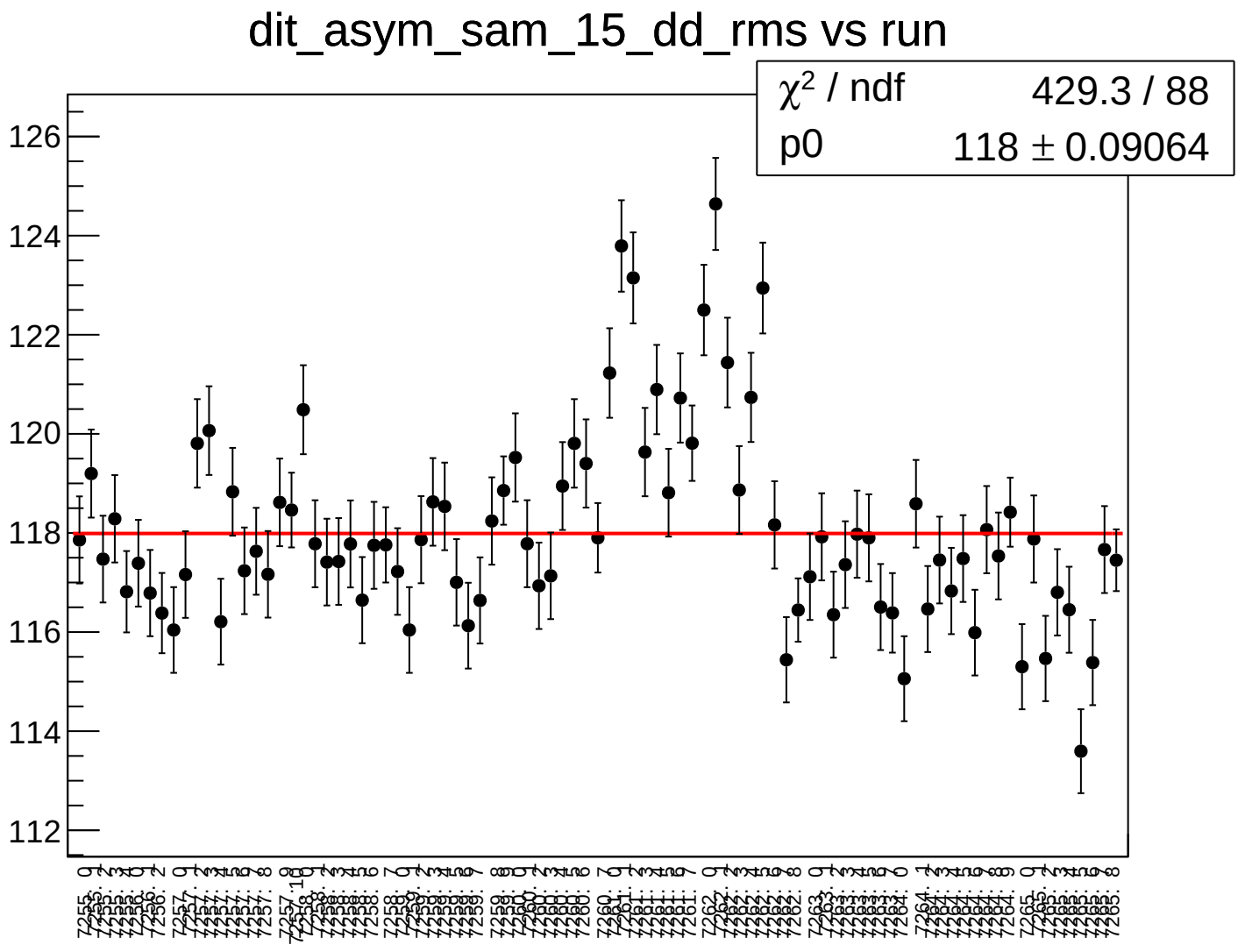

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.6 / 88
p0 −34.98 ± 754.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 109.8
Std Dev 0
2
1
0
−1
−2

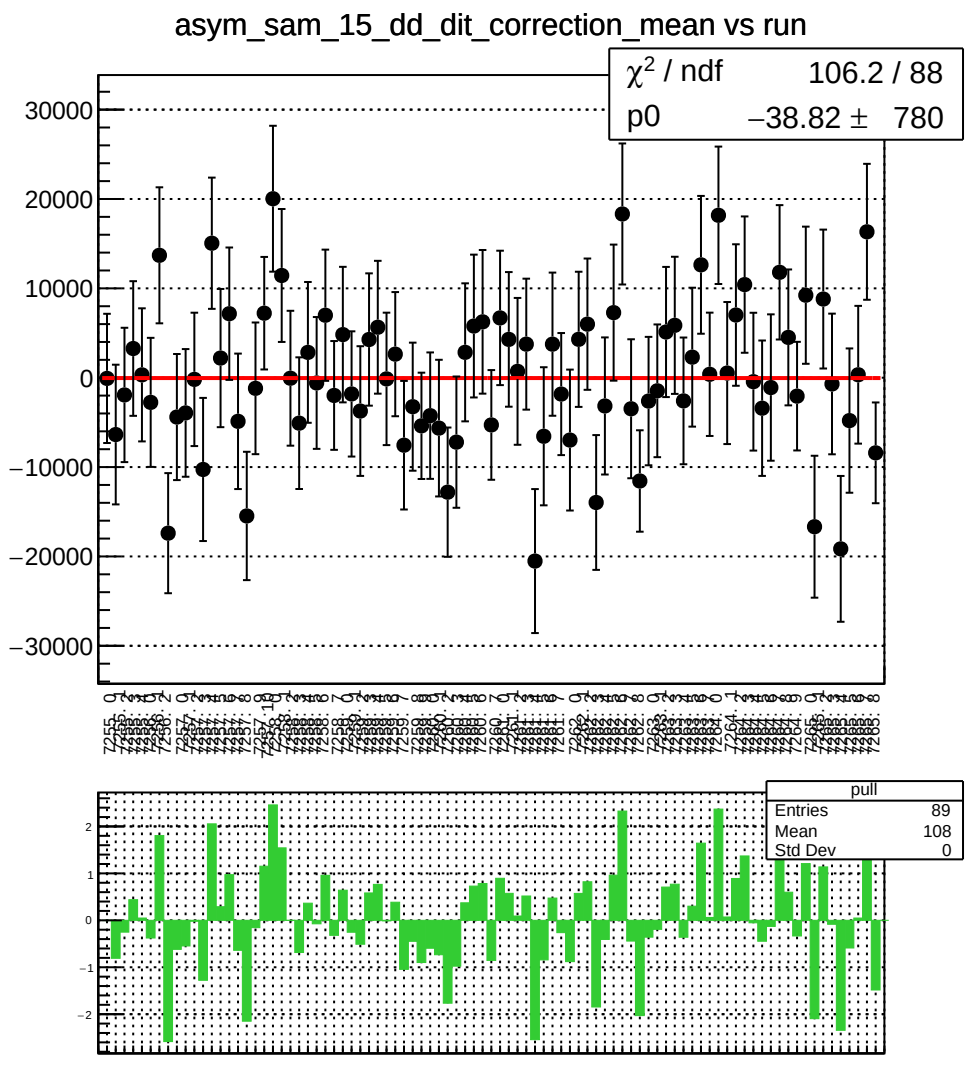

pull1D
Entries 89
Mean 0.02419
Std Dev 1.089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

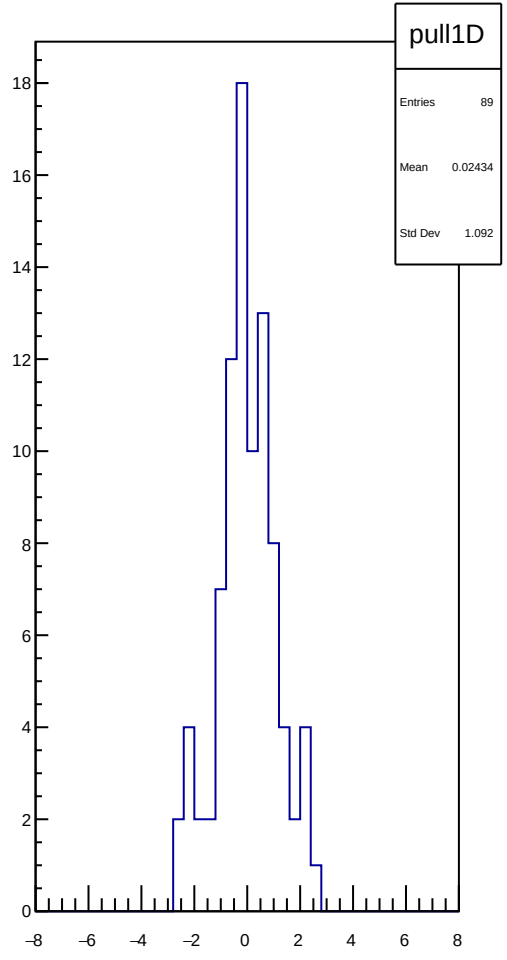

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 3221 / 88
p0 693.9 ± 0.5335
780
760
740
720
700
680
660
640
620

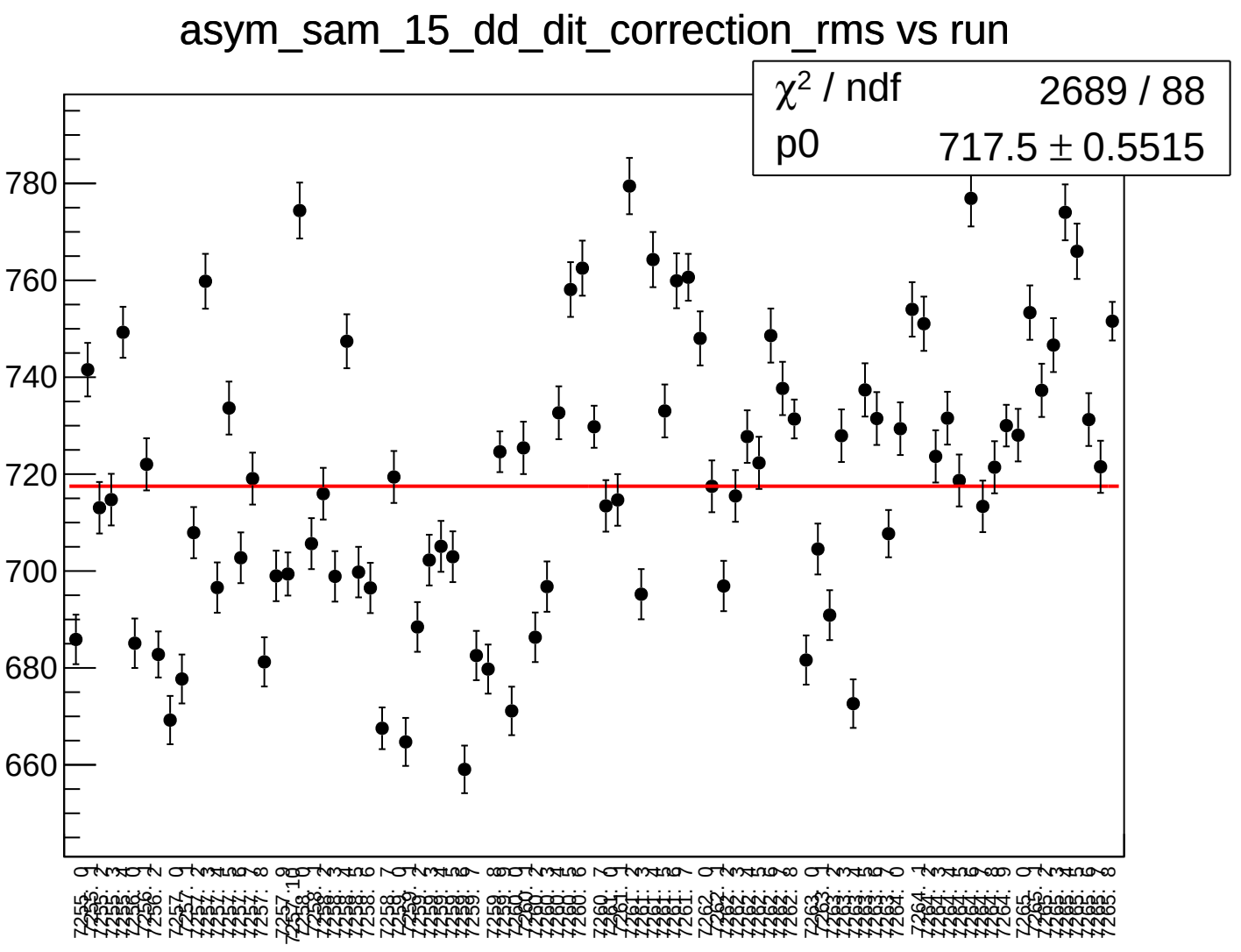

dit_asym_sam_15_dd_mean vs run
χ² / ndf 60.96 / 88
p0 45.15 ± 128.2
pull
Entries 89
Mean −183.4
Std Dev 0

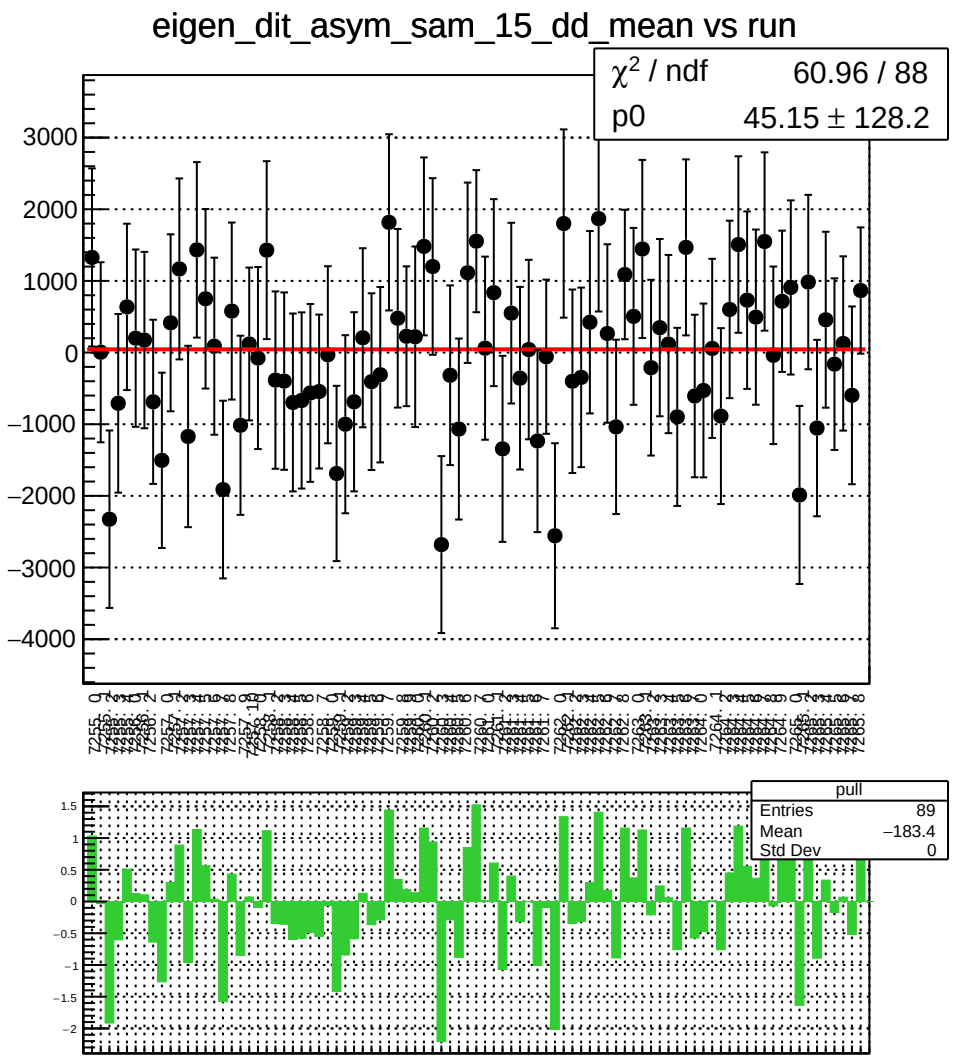

pull1D
Entries 89
Mean −0.01407
Std Dev 0.8275

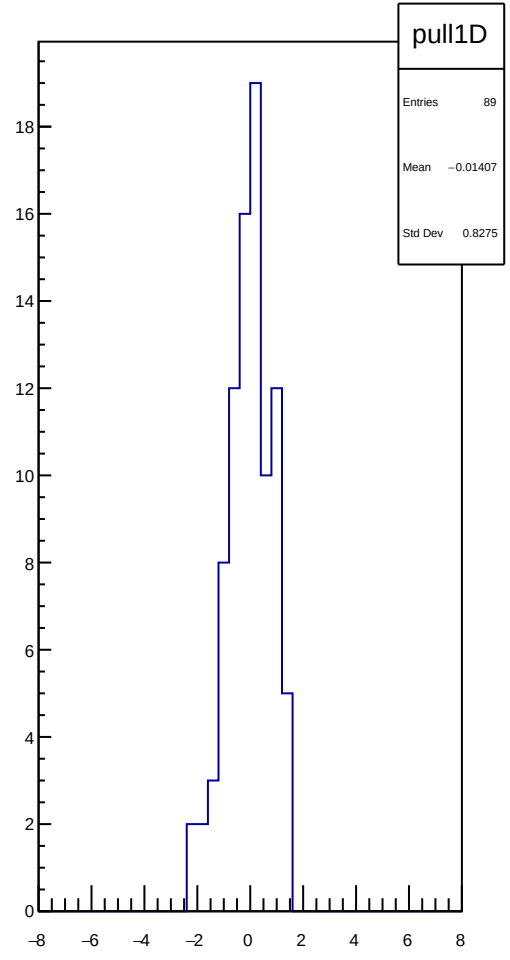

dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 429.3 / 88
p0 118 ± 0.09064
126
124
122
120
118
116
114
112

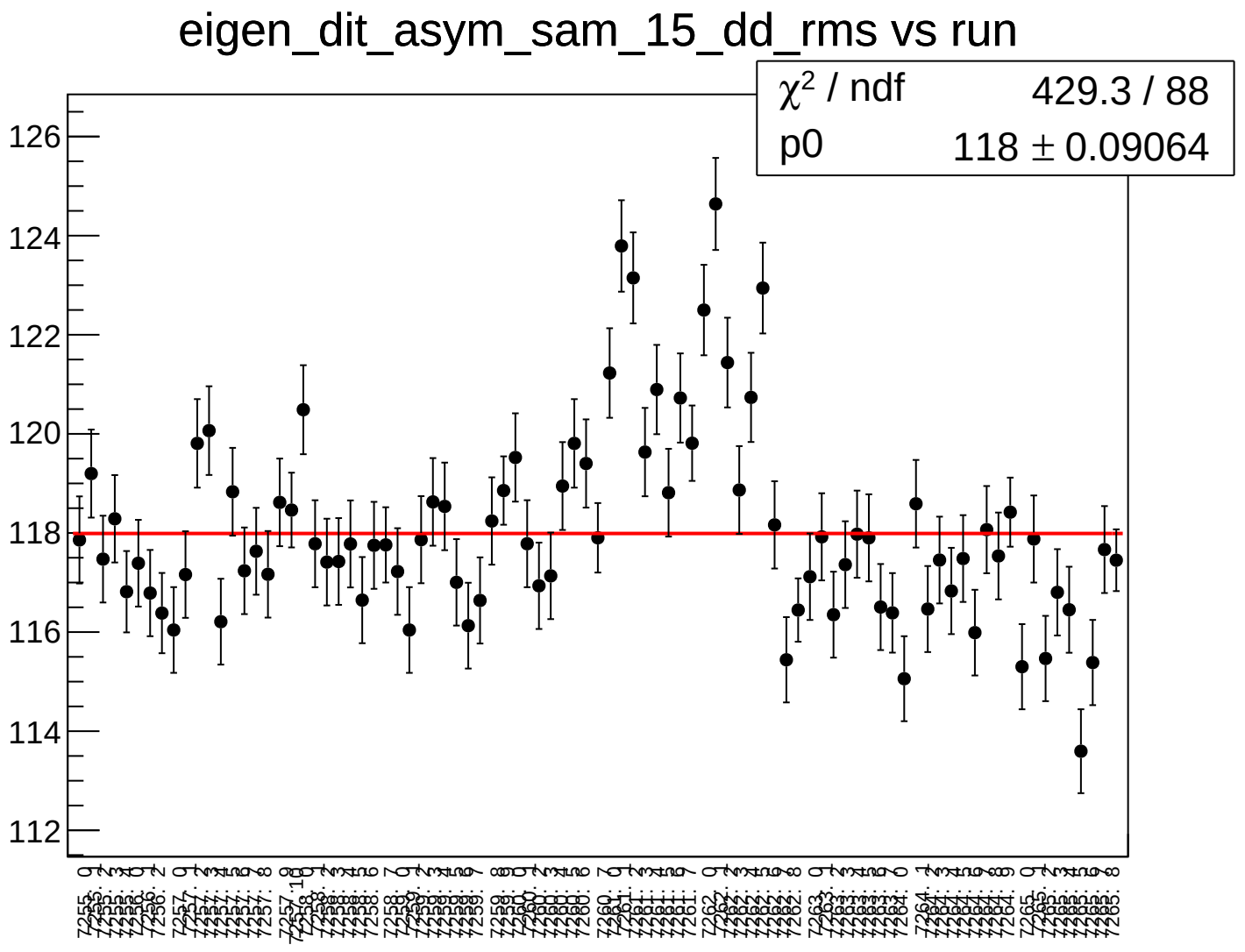

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 106.2 / 88
p0 −38.82 ± 780
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 108
Std Dev 0
2
1
0
−1
−2

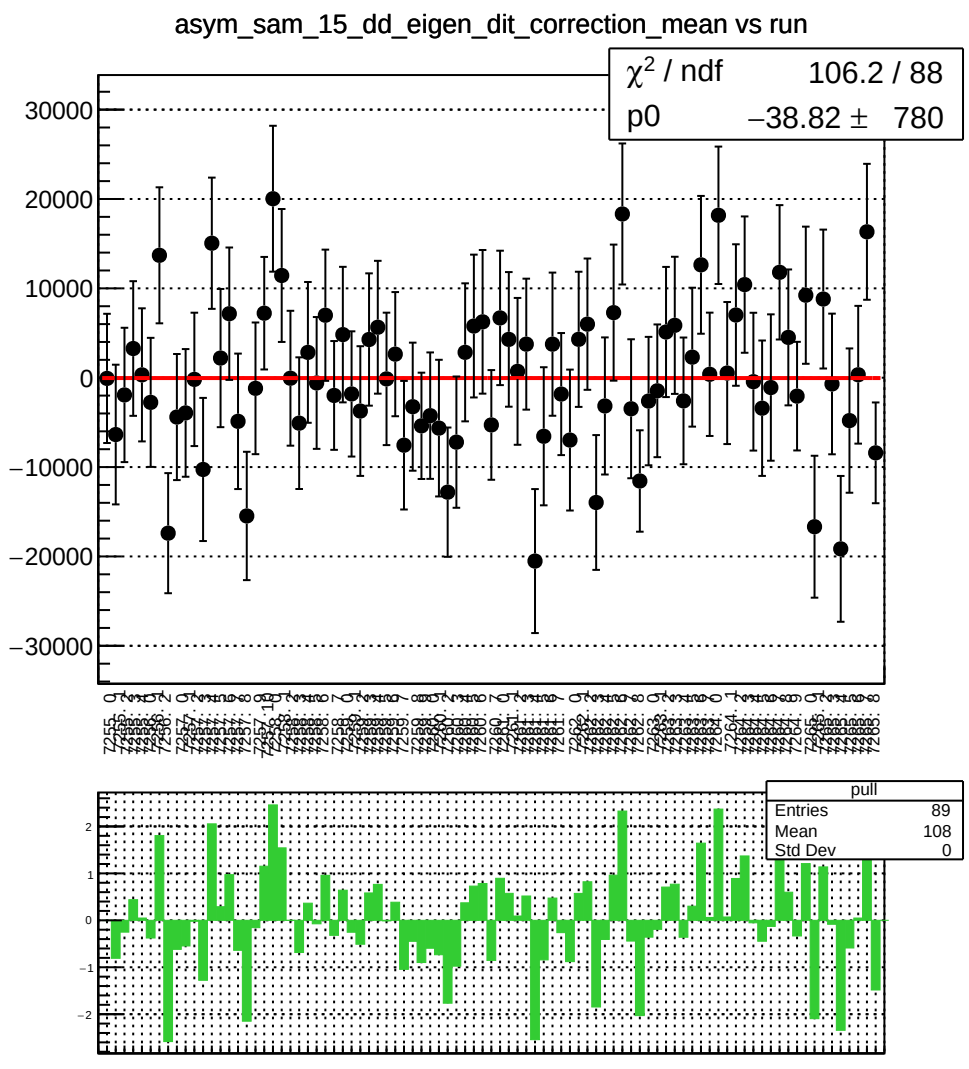

pull1D
Entries 89
Mean 0.02434
Std Dev 1.092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

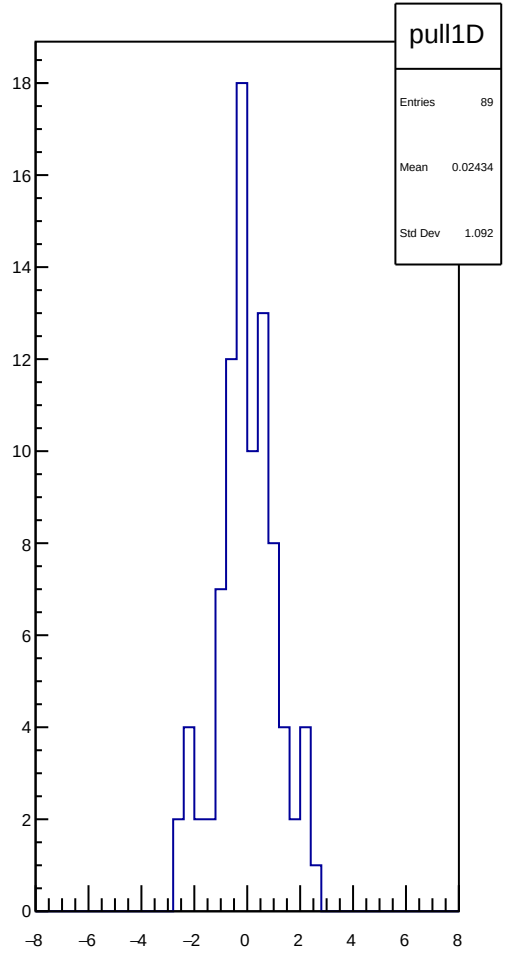

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2689 / 88
p0 717.5 ± 0.5515
780
760
740
720
700
680
660

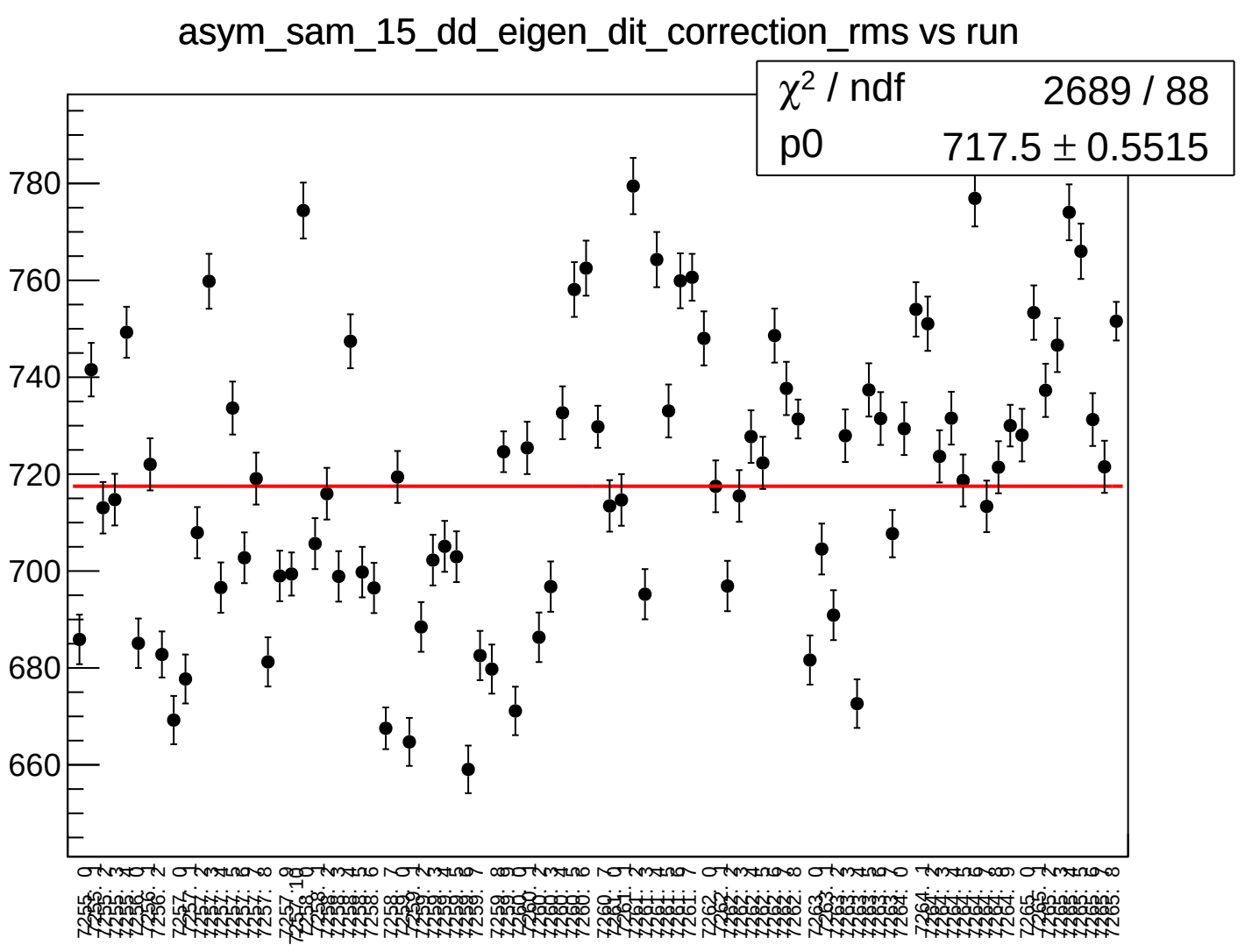

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 60.96 / 88
p0 45.15 ± 128.2
pull
Entries 89
Mean −183.4
Std Dev 0

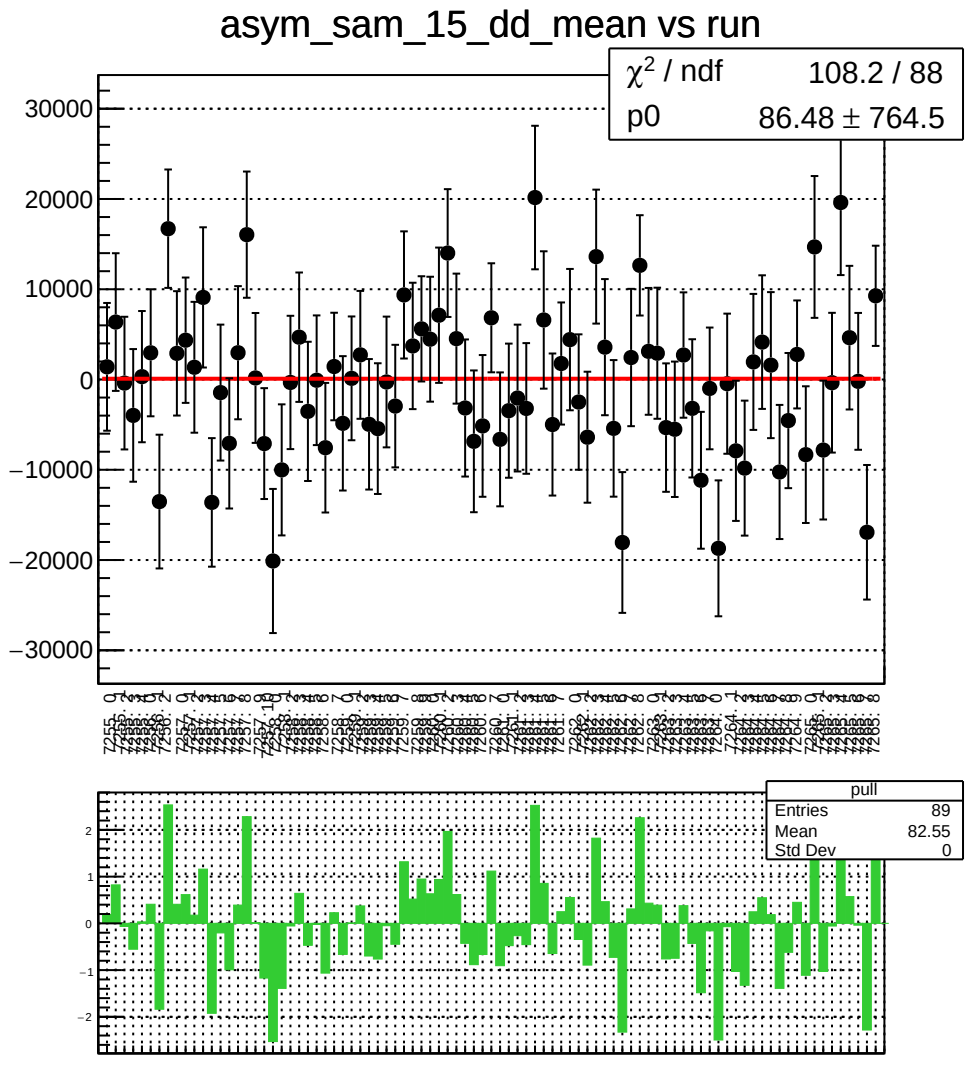

pull1D
Entries 89
Mean −0.01407
Std Dev 0.8275

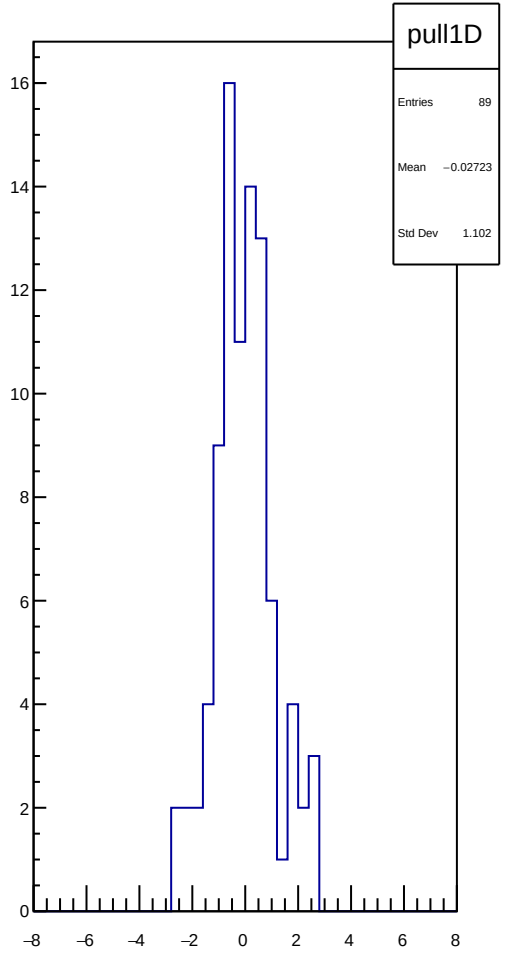

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 429.3 / 88
p0 118 ± 0.09064
126
124
122
120
118
116
114
112

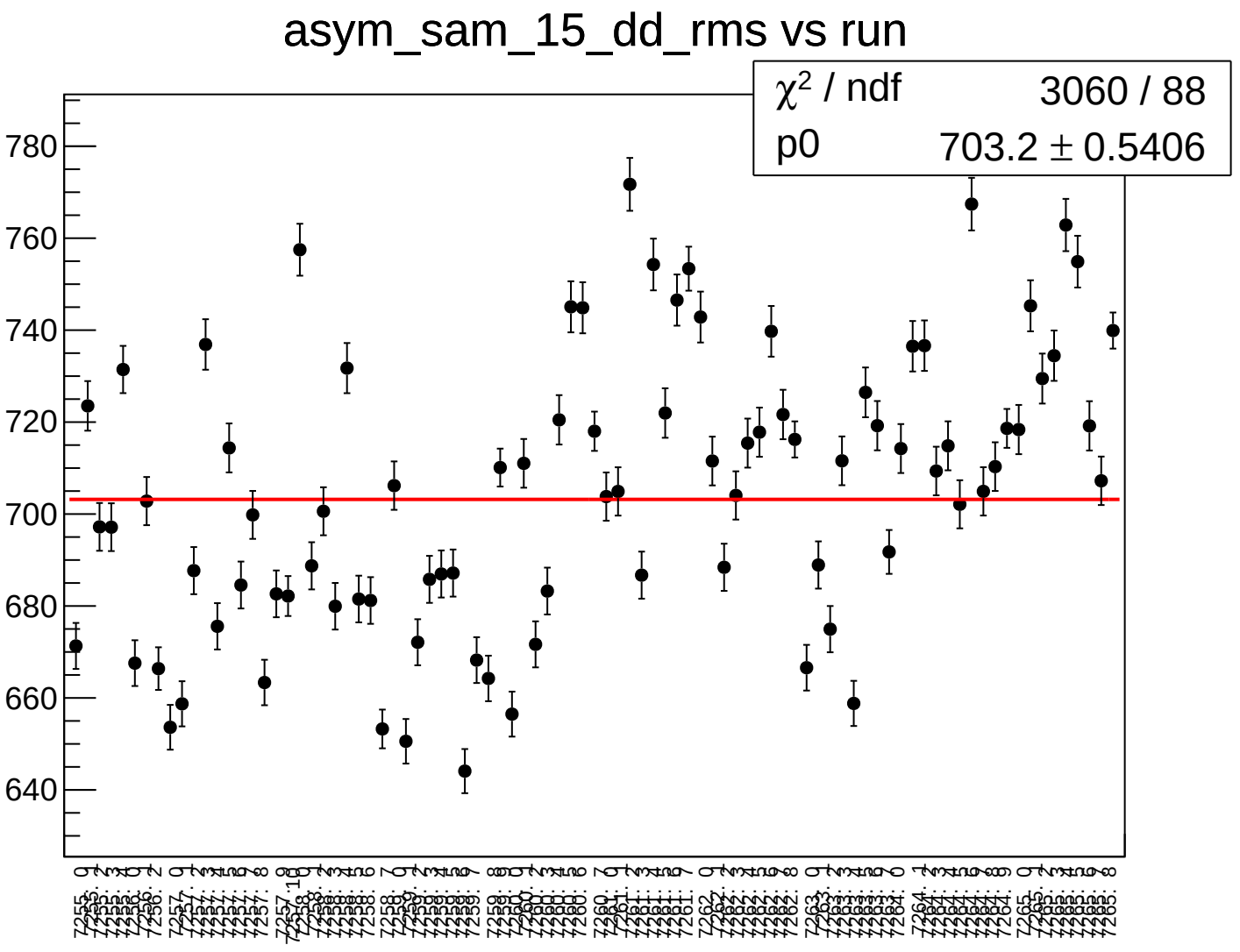

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 106.2 / 88
p0 −38.82 ± 780
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 108
Std Dev 0
2
1
0
−1
−2

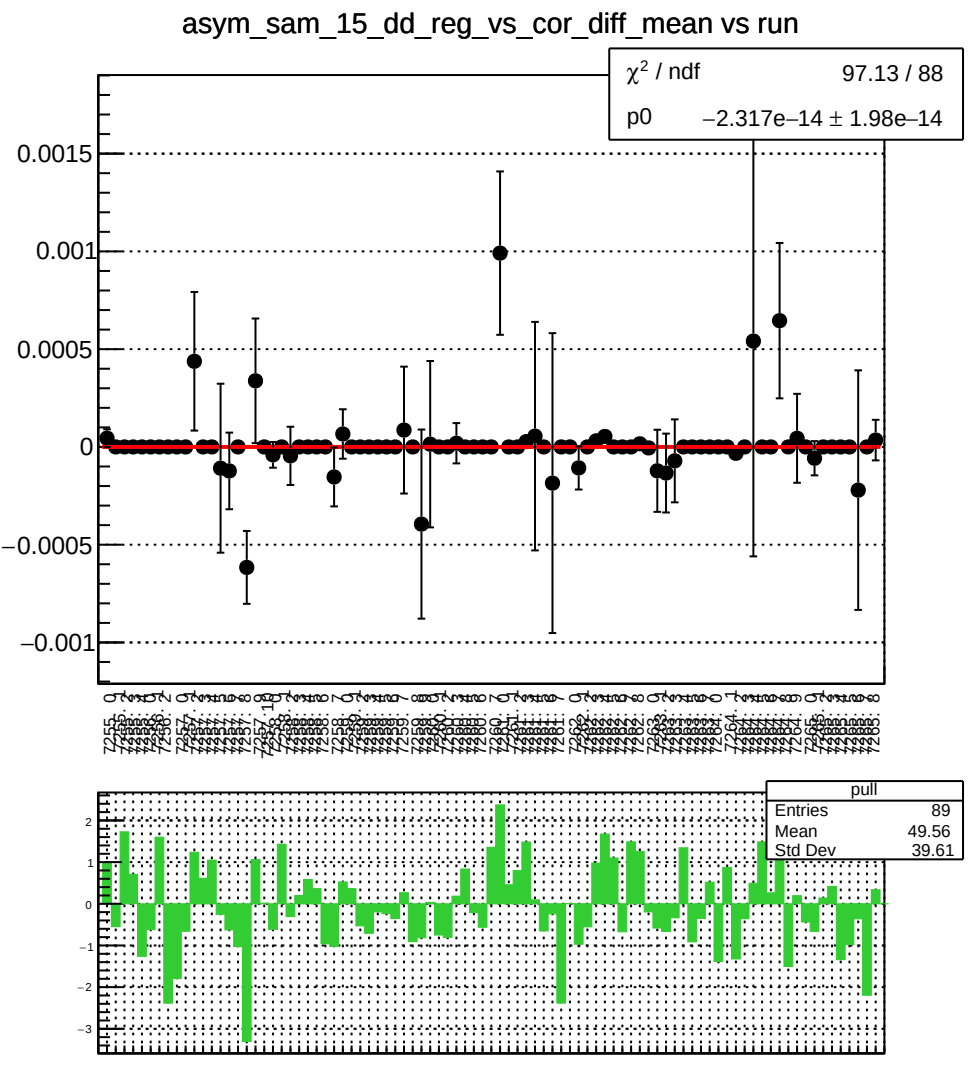

pull1D
Entries 89
Mean 0.02434
Std Dev 1.092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

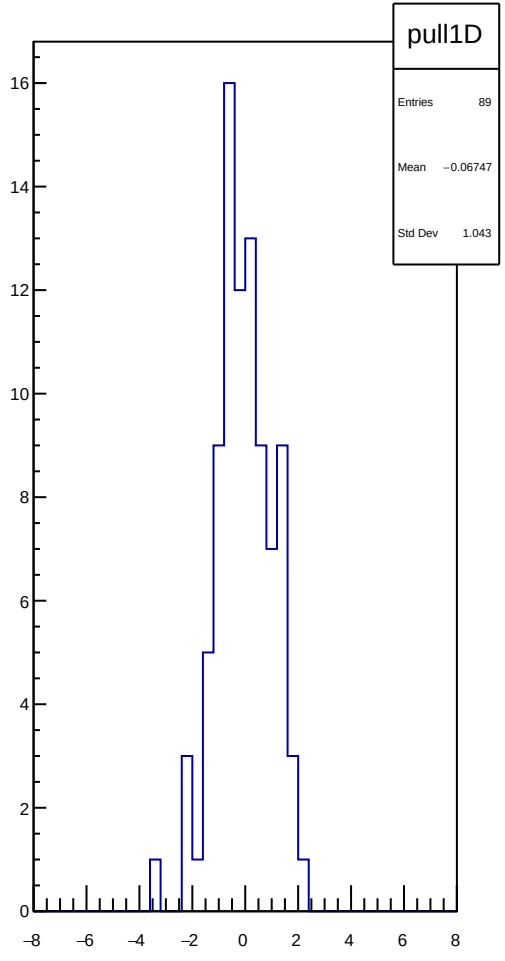

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 2689 / 88
p0 717.5 ± 0.5515
780
760
740
720
700
680
660

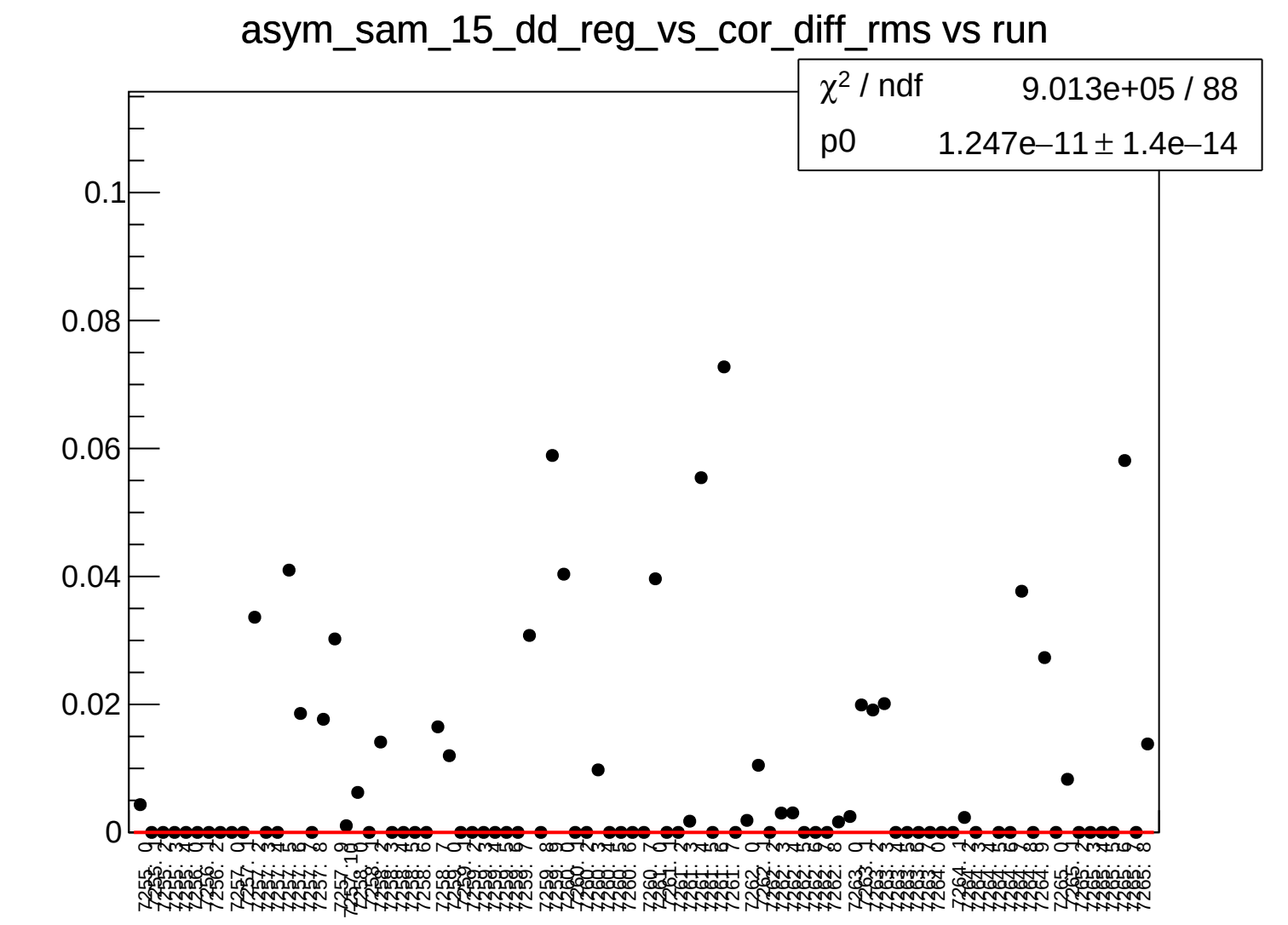

asym_sam_15_dd_mean vs run
χ² / ndf 108.2 / 88
p0 86.48 ± 764.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 82.55
Std Dev 0
2
1
0
−1
−2

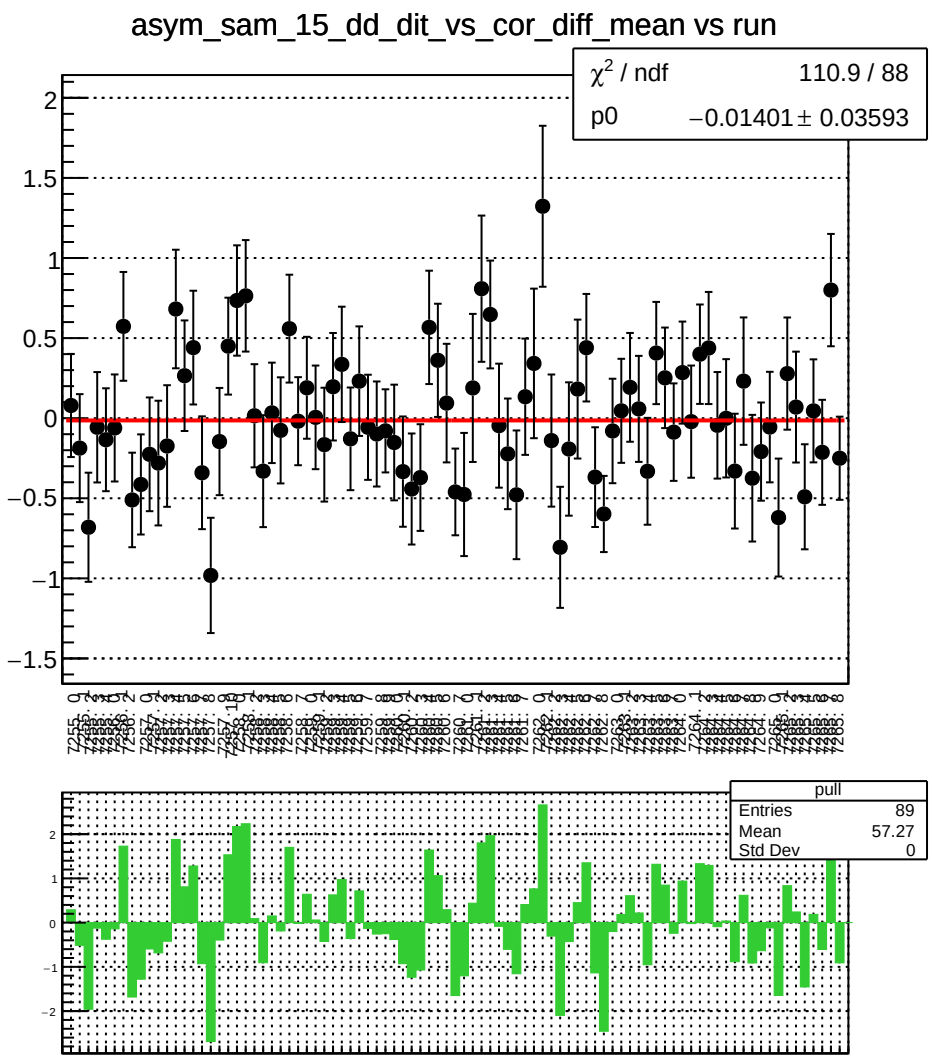

pull1D
Entries 89
Mean −0.02723
Std Dev 1.102
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

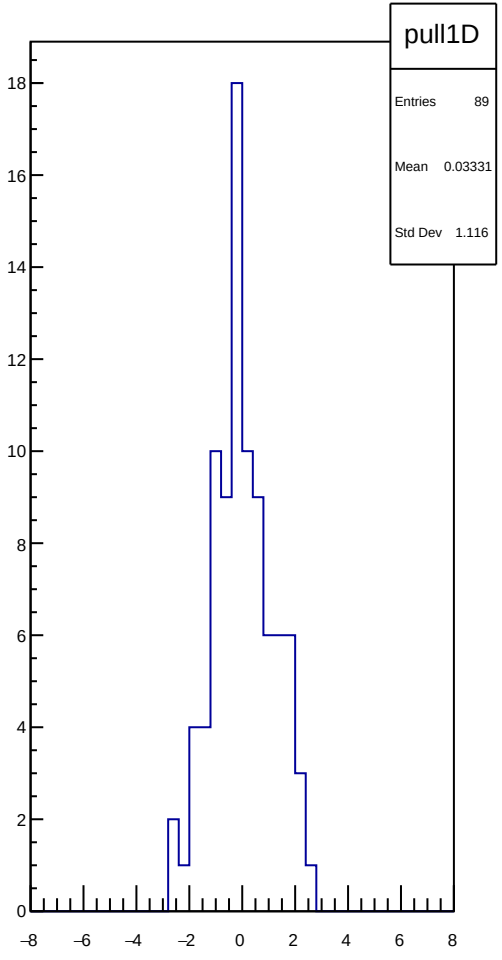

asym_sam_15_dd_rms vs run
χ² / ndf 3060 / 88
p0 703.2 ± 0.5406
780
760
740
720
700
680
660
640

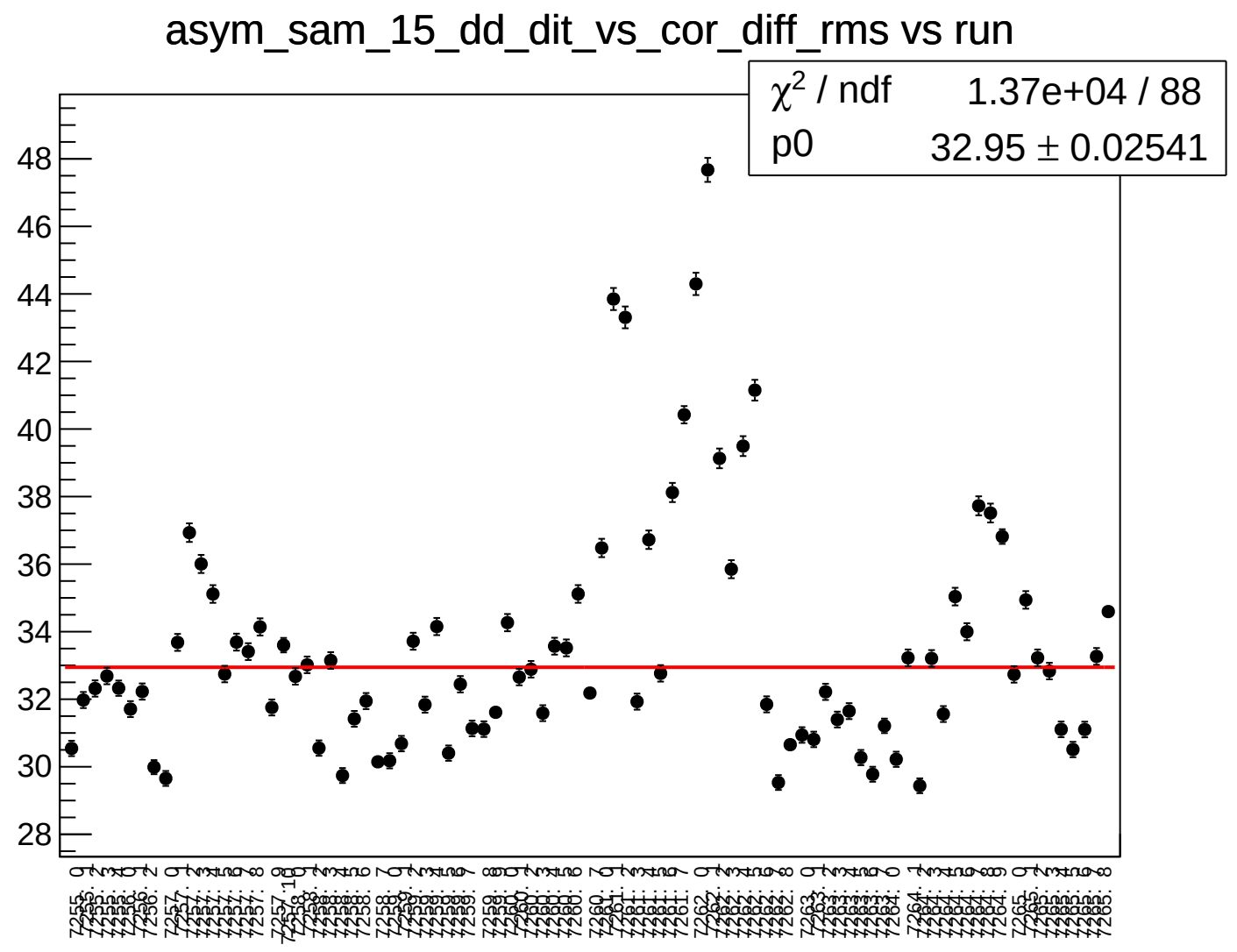

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.13 / 88
p0 −2.317e−14 ± 1.98e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 49.56
Std Dev 39.61
2
1
0
−1
−2
−3

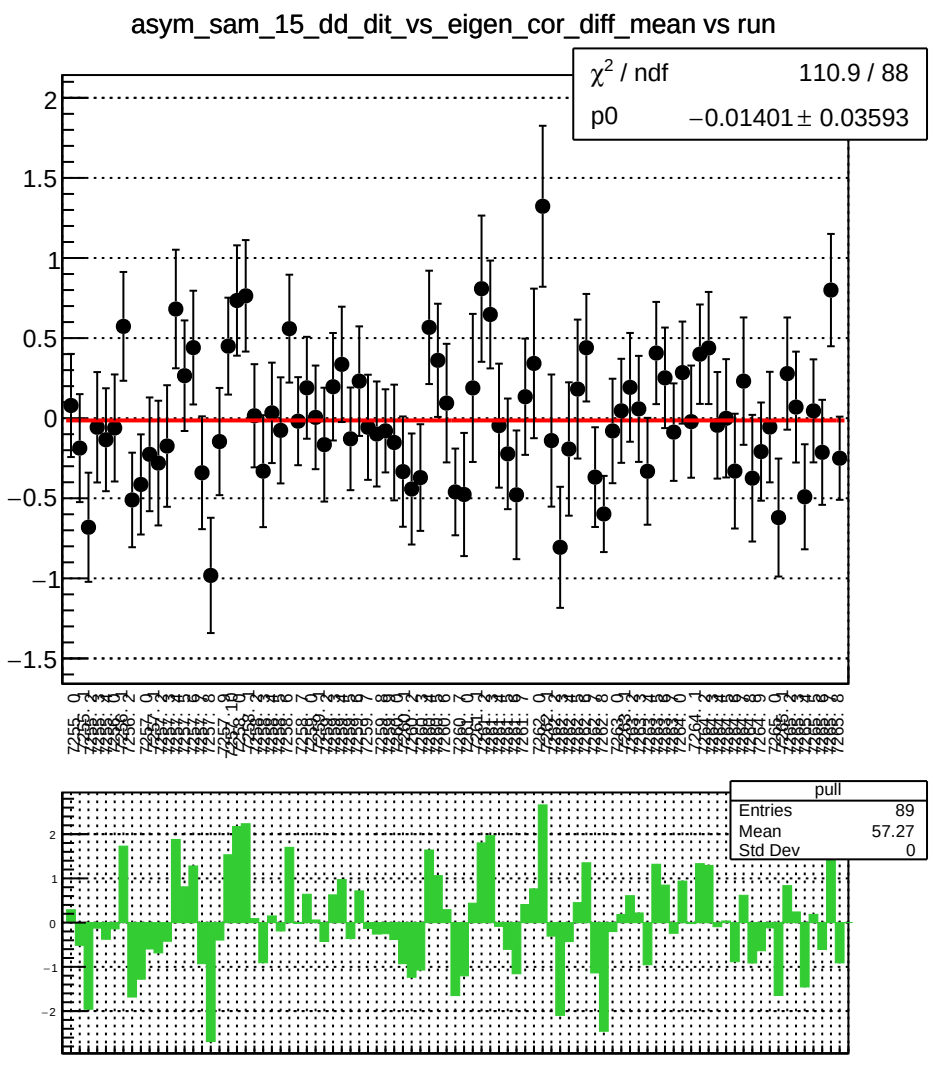

pull1D
Entries 89
Mean −0.06747
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

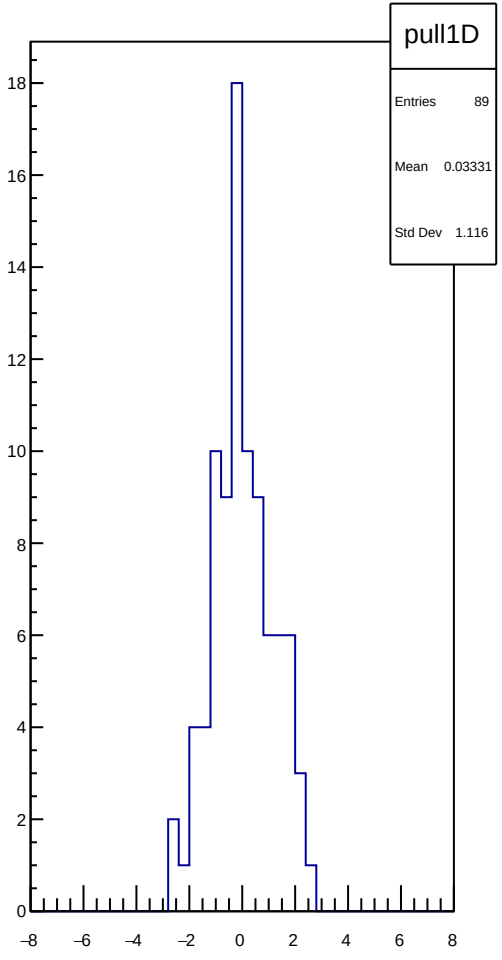

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.013e+05 / 88
p0 1.247e−11 ± 1.4e−14
0.1
0.08
0.06
0.04
0.02
0

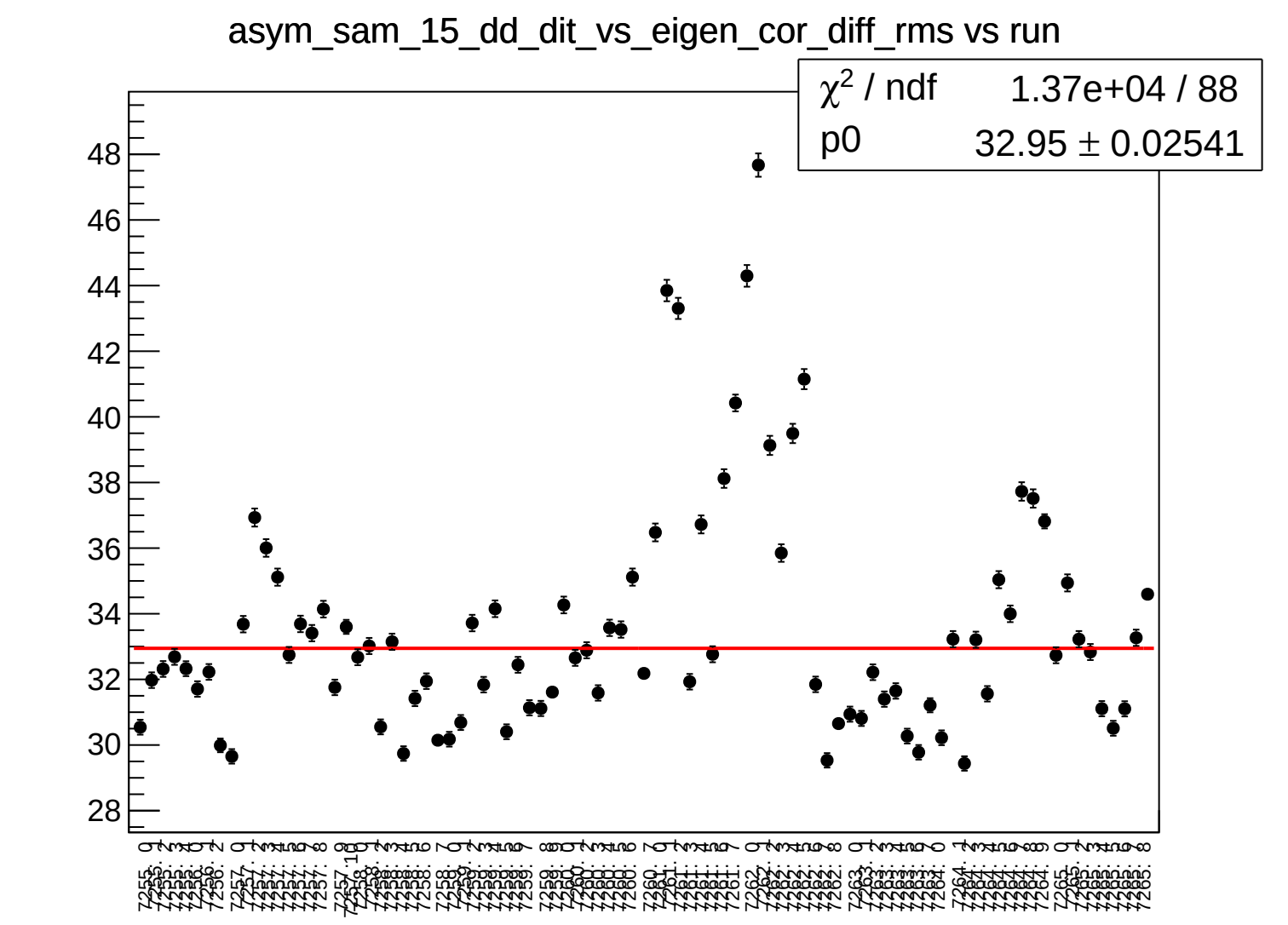

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ^2 / ndf 110.9 / 88
p0 −0.01401 ± 0.03593
pull
Entries 89
Mean 57.27
Std Dev 0

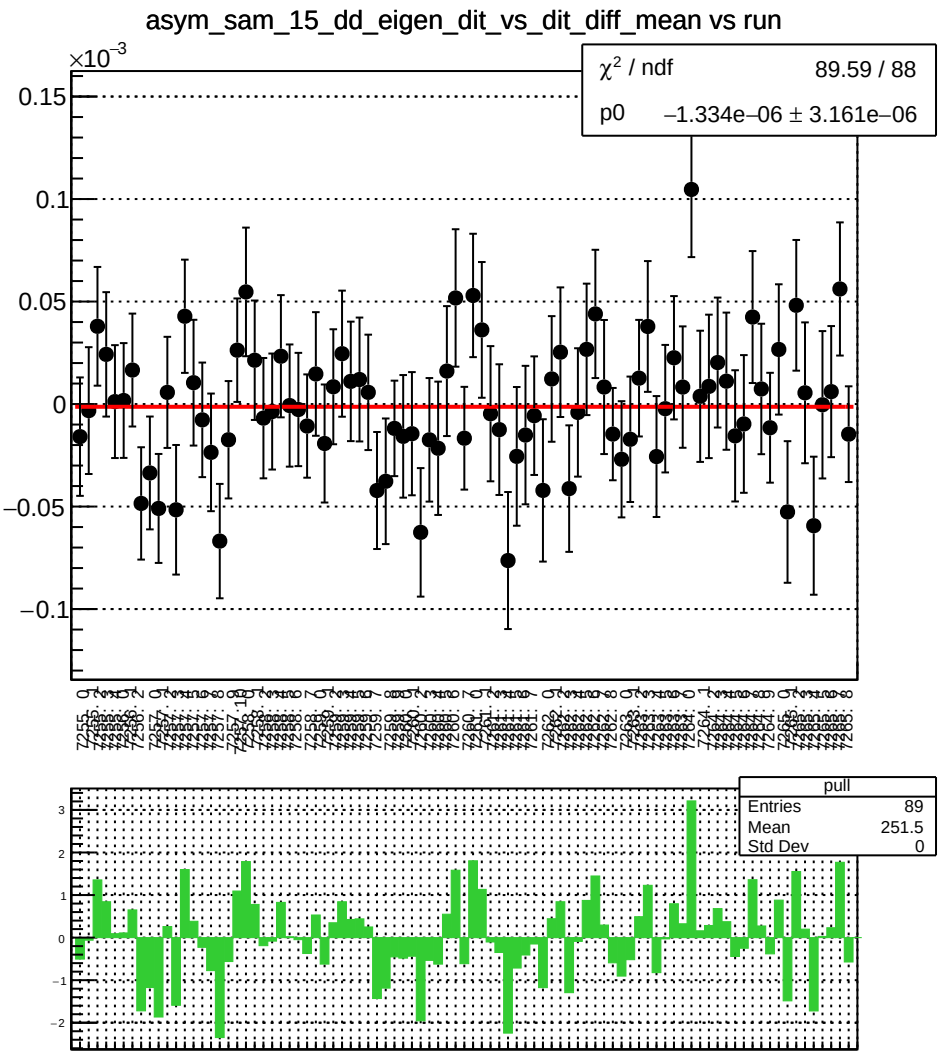

pull1D
Entries 89
Mean 0.03331
Std Dev 1.116

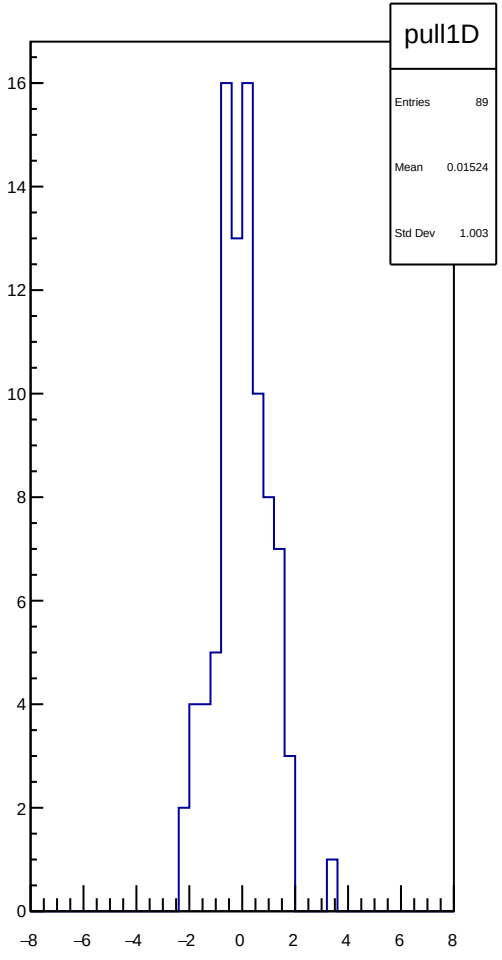

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.37e+04 / 88
p0 32.95 ± 0.02541
48
46
44
42
40
38
36
34
32
30
28

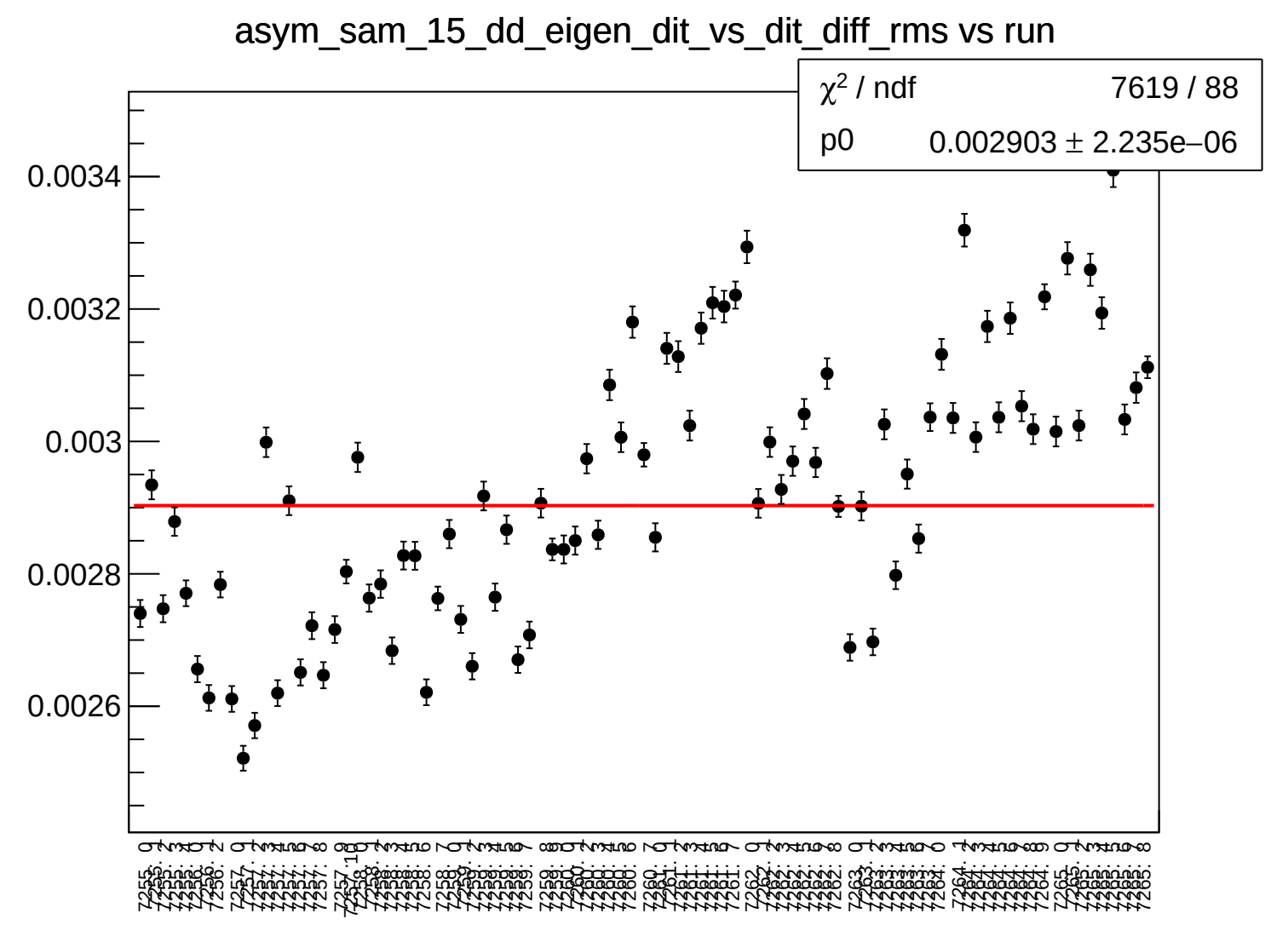

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.9 / 88
p0 −0.01401 ± 0.03593
pull
Entries 89
Mean 57.27
Std Dev 0

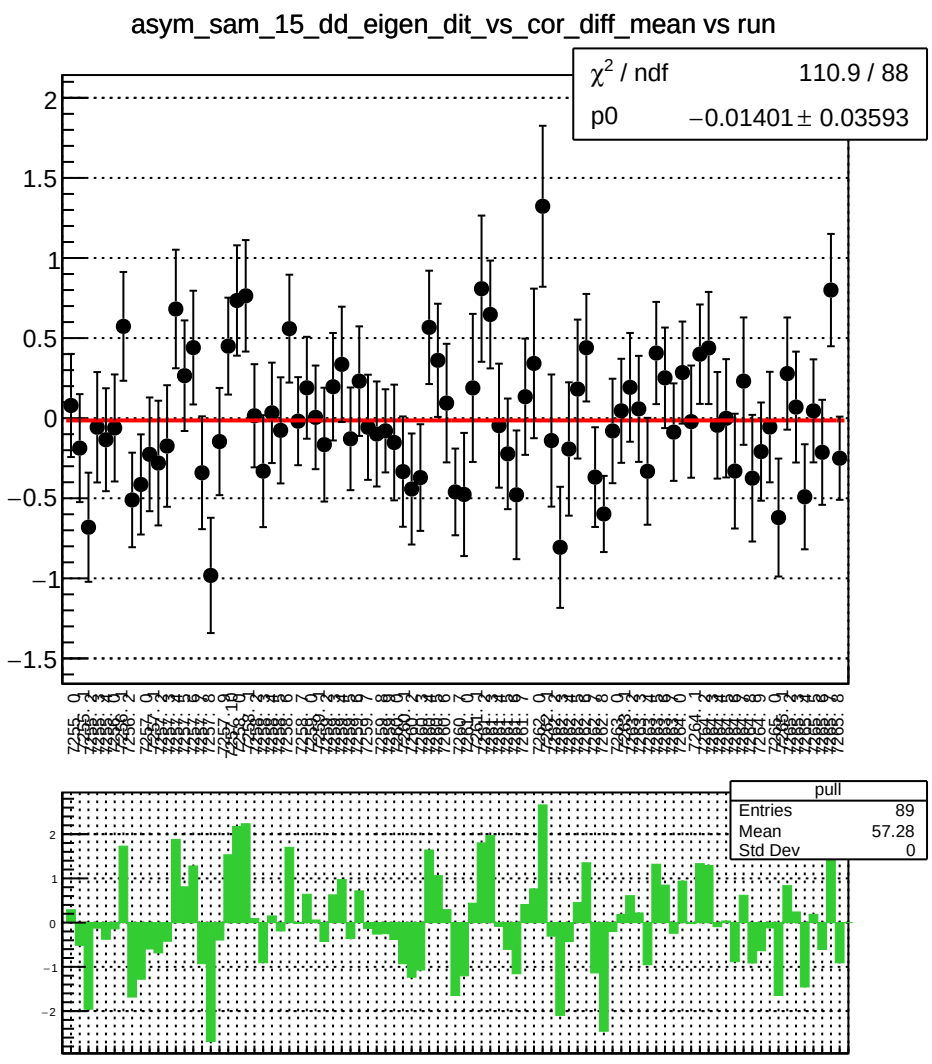

pull1D
Entries 89
Mean 0.03331
Std Dev 1.116

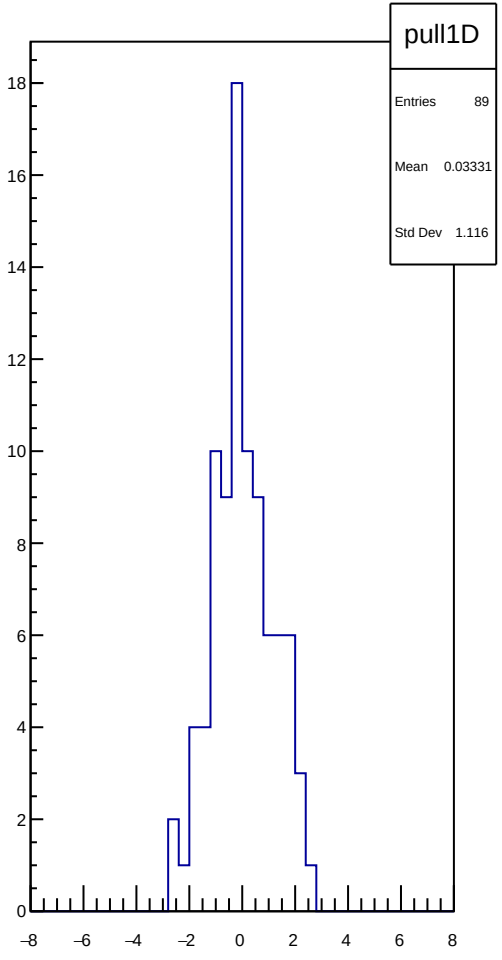

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.37e+04 / 88
p0 32.95 ± 0.02541
48
46
44
42
40
38
36
34
32
30
28

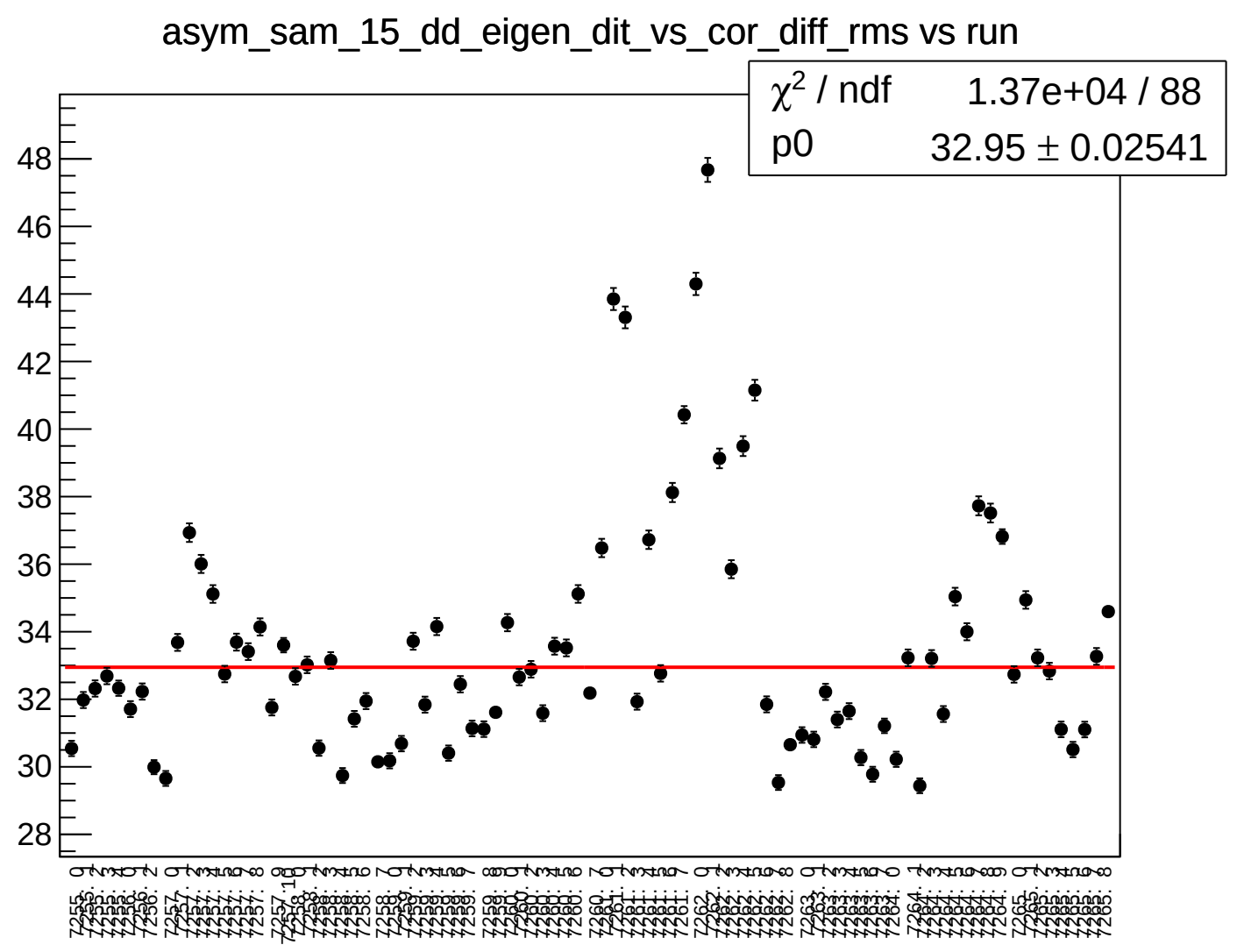

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.59 / 88
p0 −1.334e−06 ± 3.161e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 251.5
Std Dev 0
3
2
1
0
−1
−2

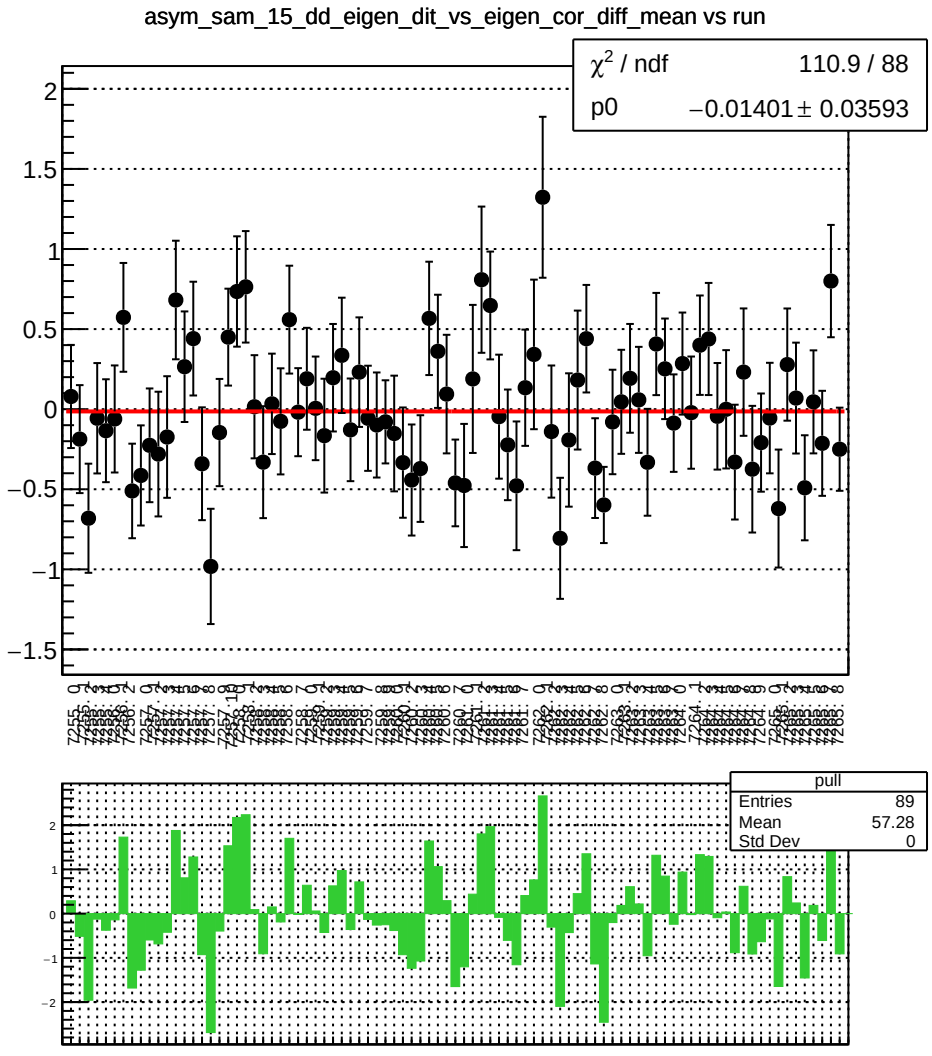

pull1D
Entries 89
Mean 0.01524
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

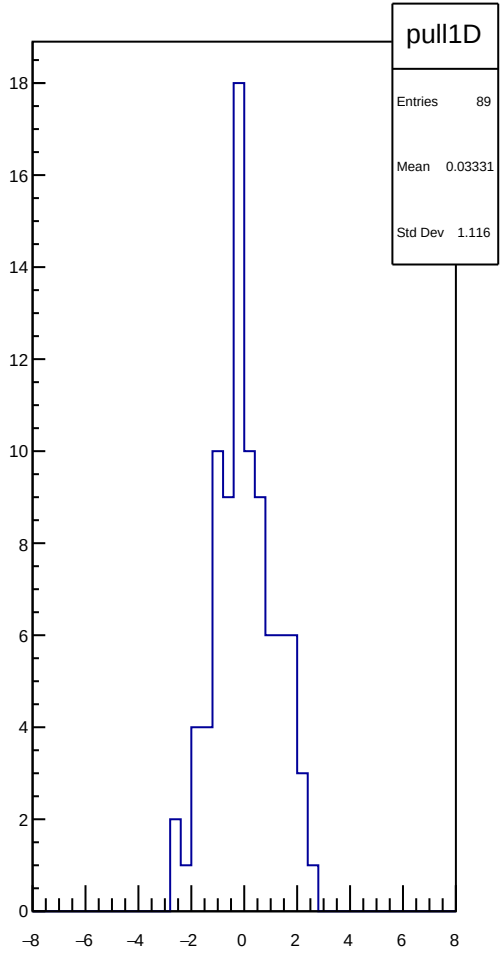

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7619 / 88
p0 0.002903 ± 2.235e−06
0.0034
0.0032
0.003
0.0028
0.0026

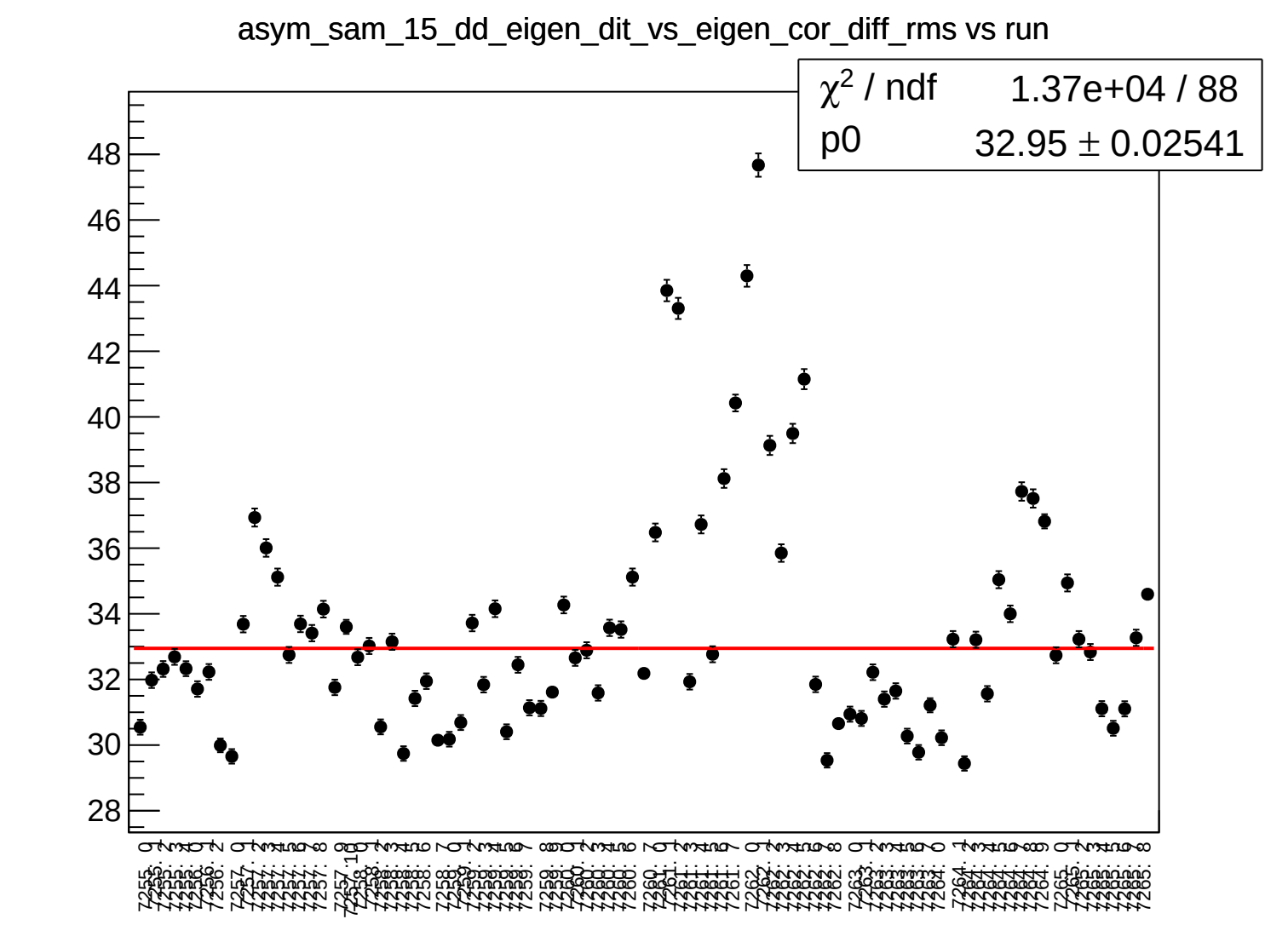

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.9 / 88
p0 −0.01401 ± 0.03593
pull
Entries 89
Mean 57.28
Std Dev 0

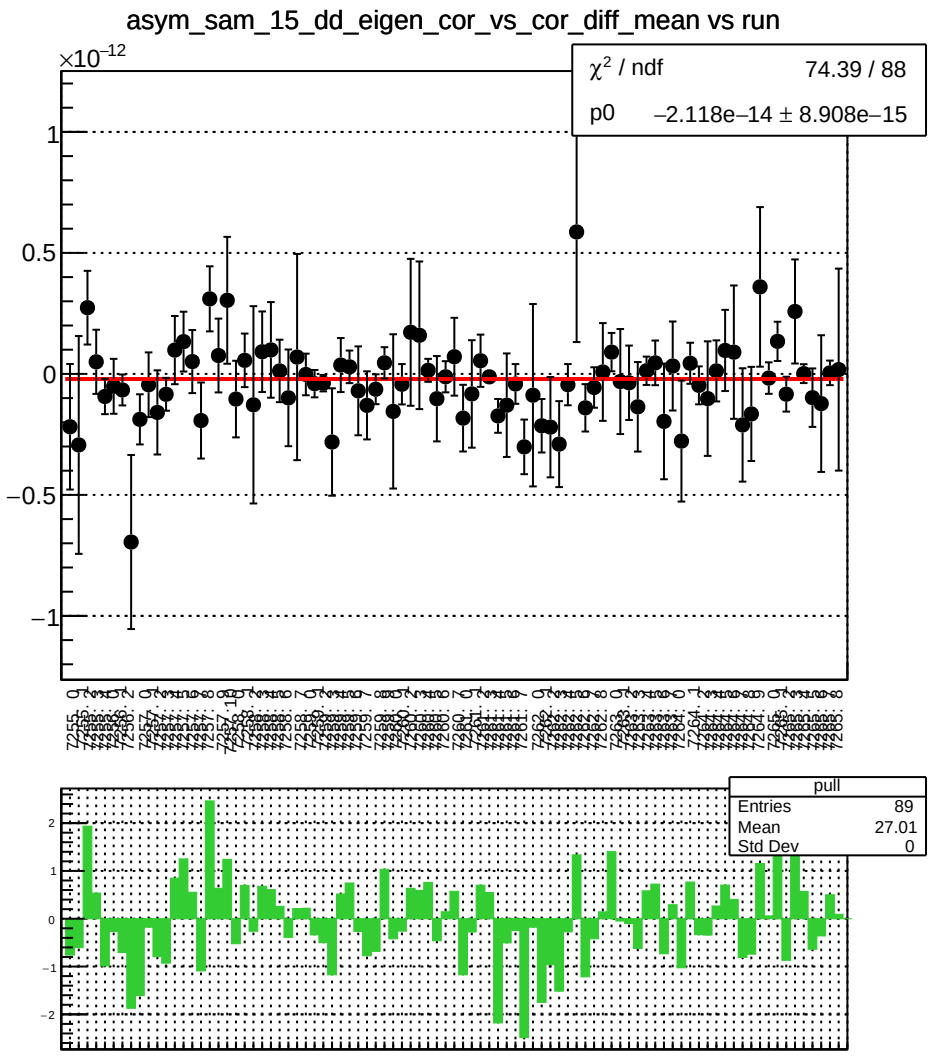

pull1D
Entries 89
Mean 0.03331
Std Dev 1.116

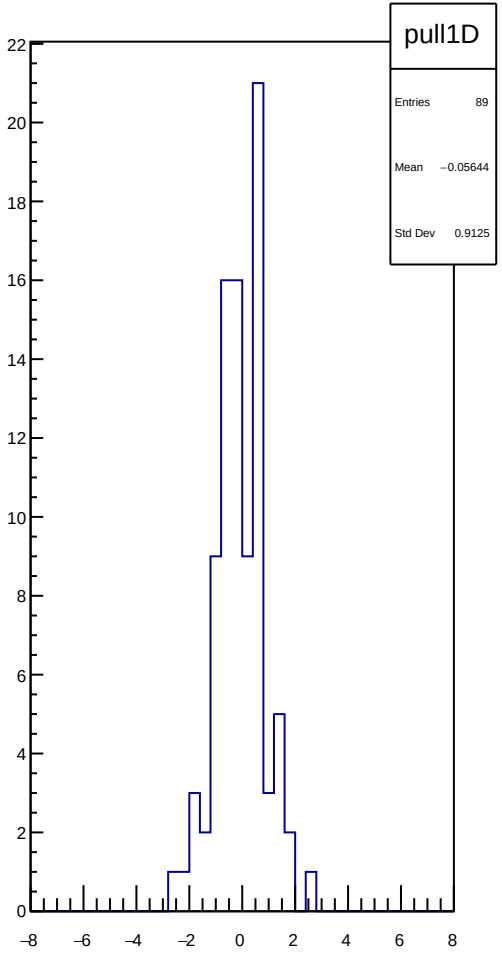

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.37e+04 / 88
p0 32.95 ± 0.02541
48
46
44
42
40
38
36
34
32
30
28

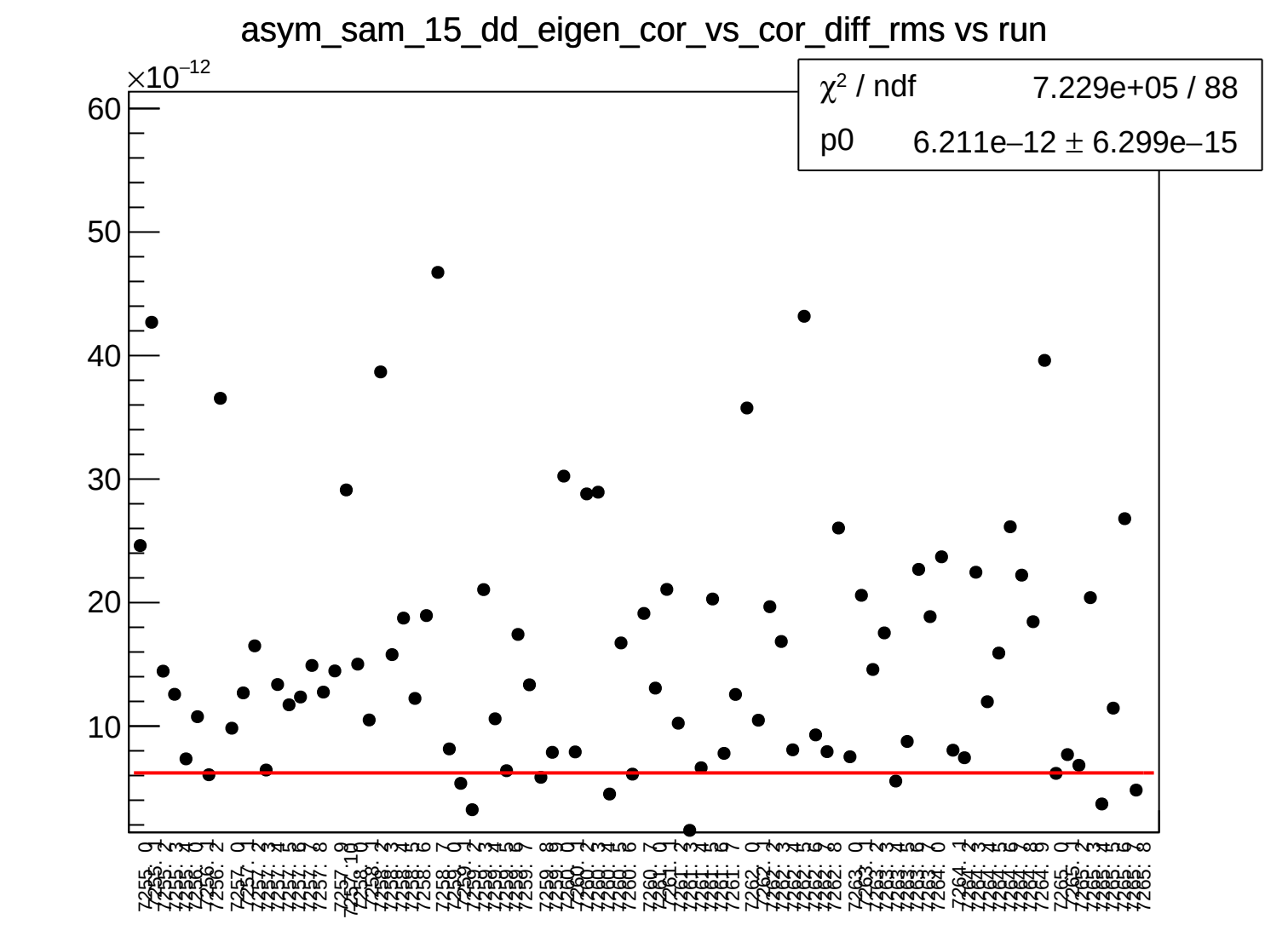

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.9 / 88
p0 −0.01401 ± 0.03593
pull
Entries 89
Mean 57.28
Std Dev 0

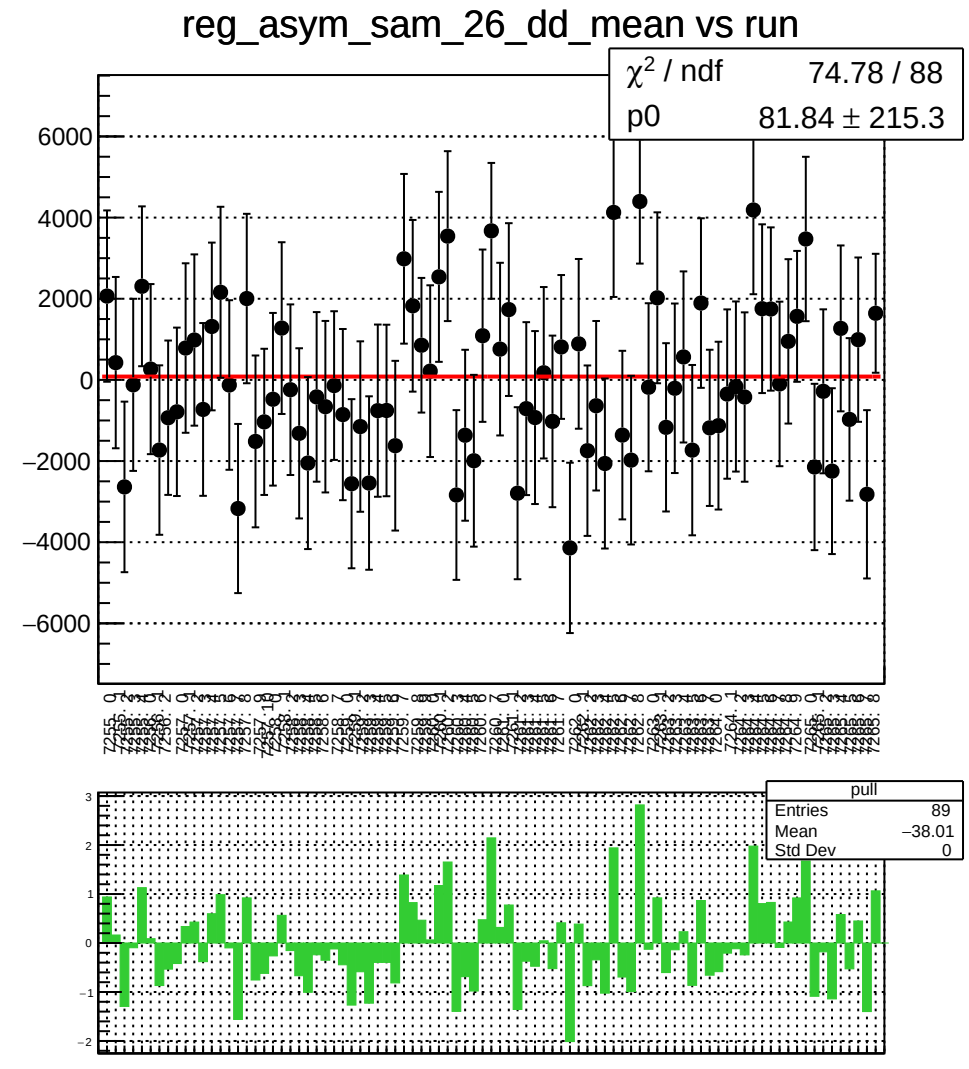

pull1D
Entries 89
Mean 0.03331
Std Dev 1.116

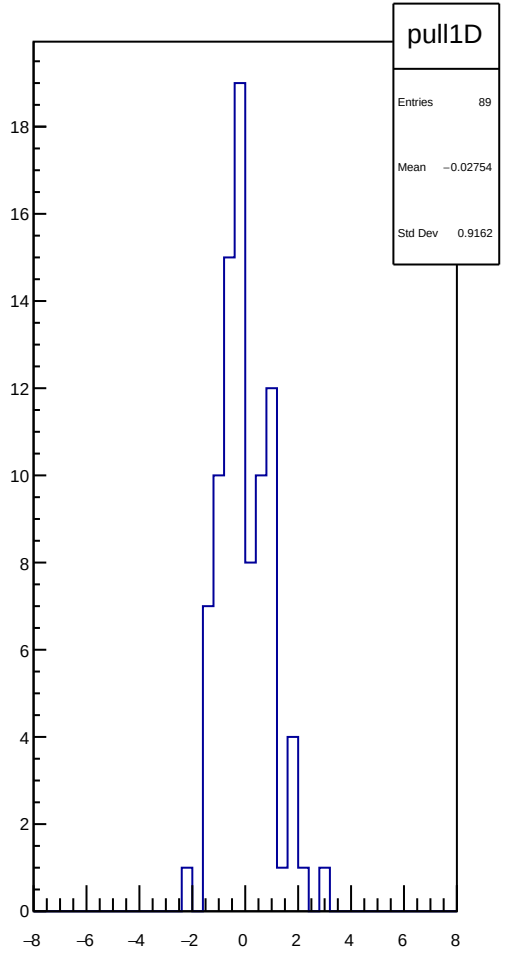

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.37e+04 / 88
p0 32.95 ± 0.02541
48
46
44
42
40
38
36
34
32
30
28

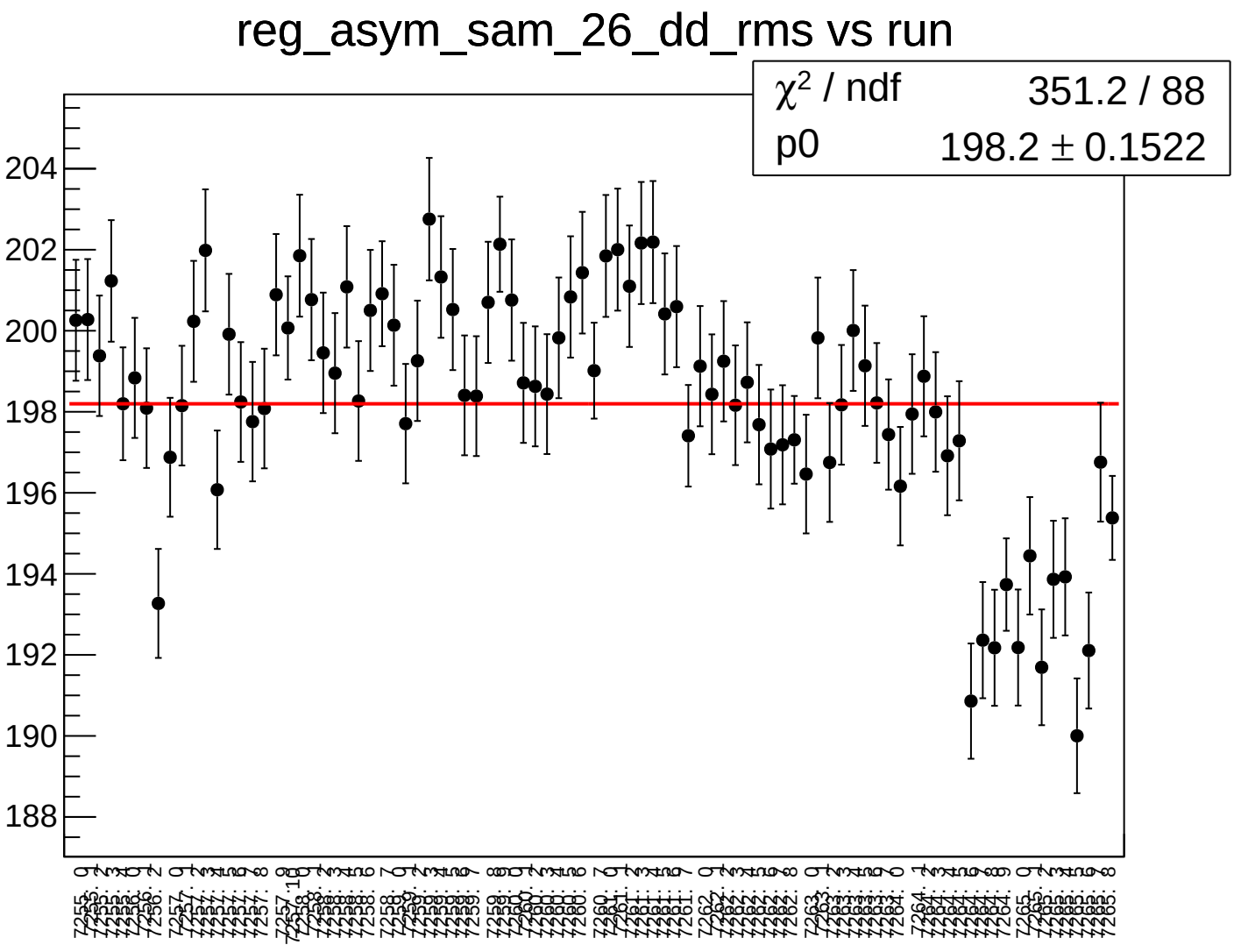

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 74.39 / 88
p0 −2.118e−14 ± 8.908e−15
pull
Entries 89
Mean 27.01
Std Dev 0

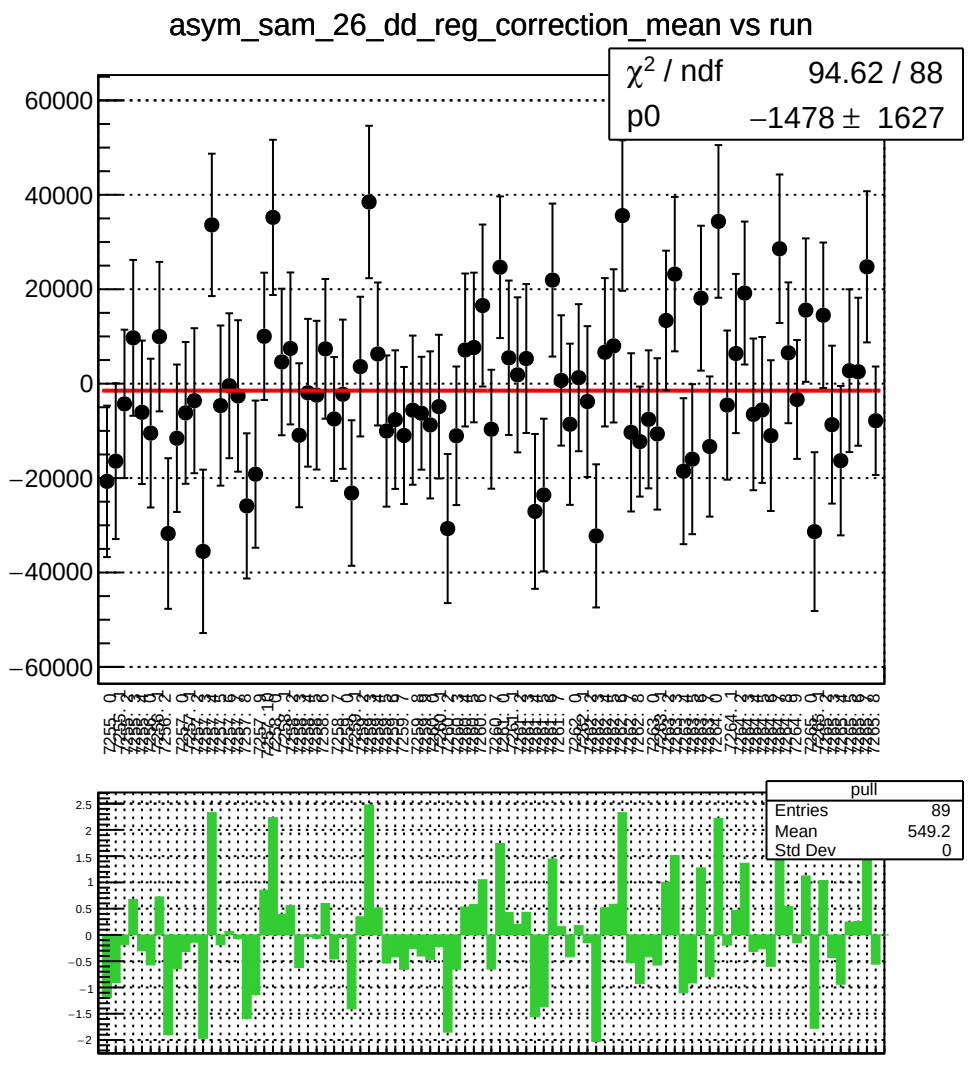

pull1D
Entries 89
Mean −0.05644
Std Dev 0.9125

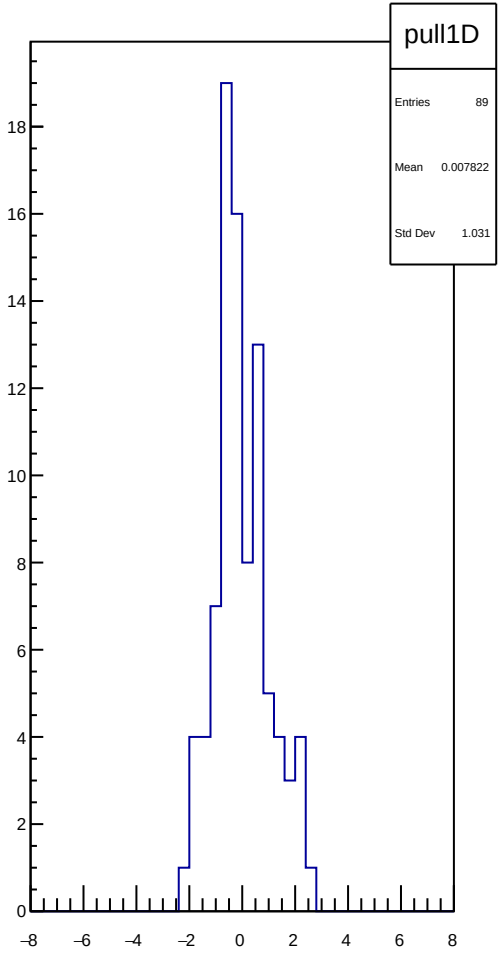

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.229e+05 / 88
p0 6.211e−12 ± 6.299e−15
60
50
40
30
20
10

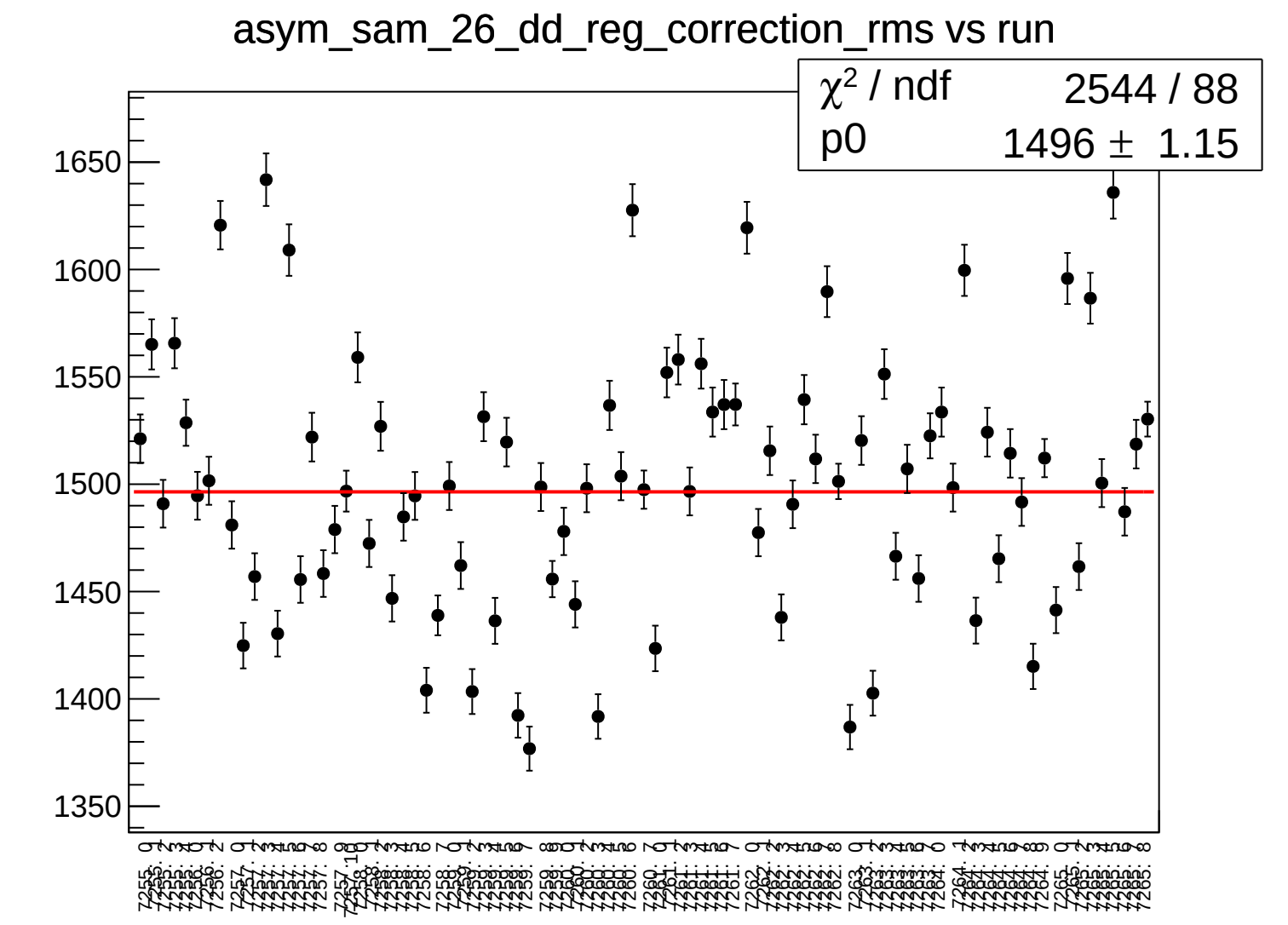

reg_asym_sam_26_dd_mean vs run
χ² / ndf 74.78 / 88
p0 81.84 ± 215.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −38.01
Std Dev 0
3
2
1
0
−1
−2

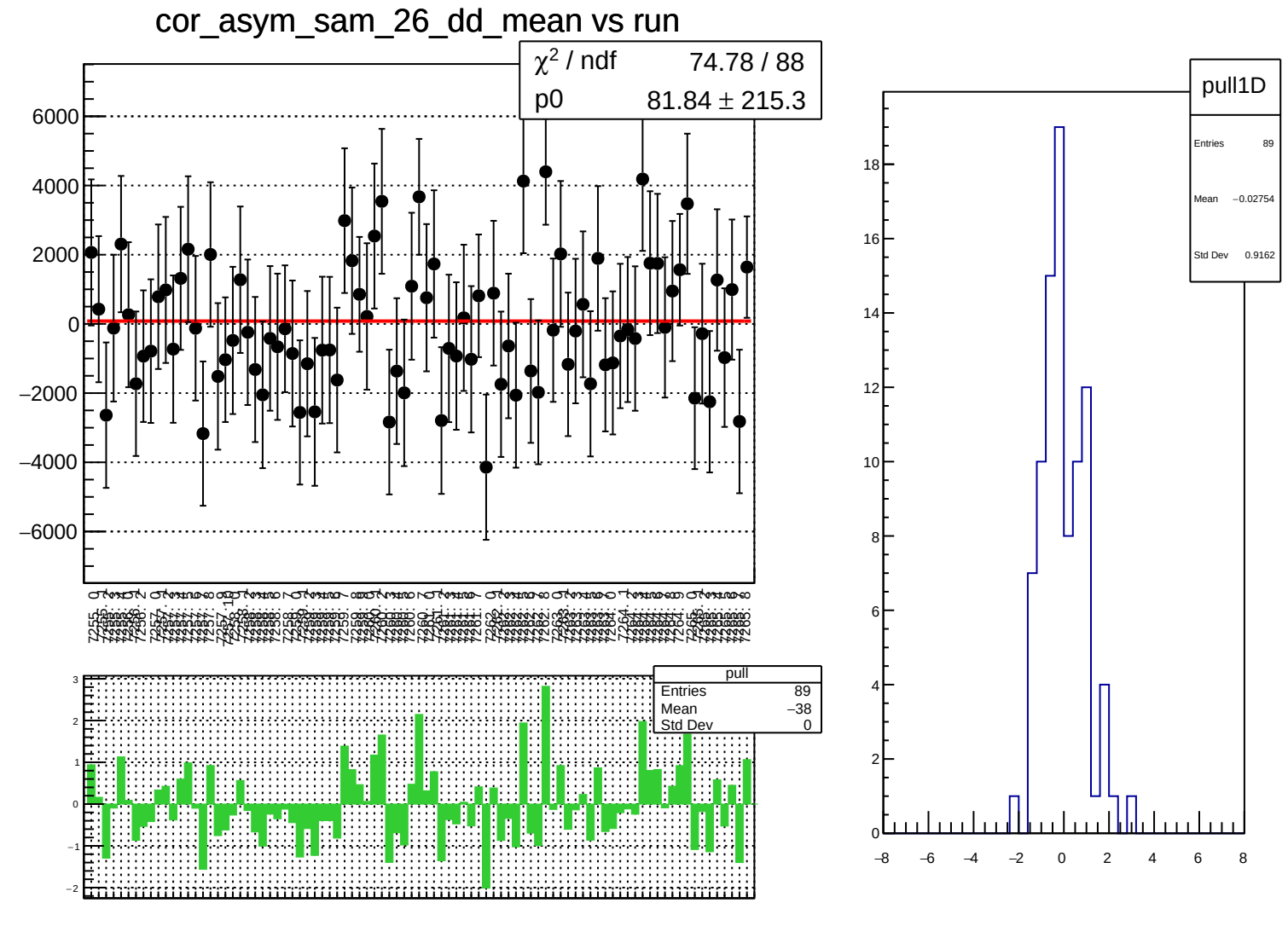

pull1D
Entries 89
Mean −0.02754
Std Dev 0.9162
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

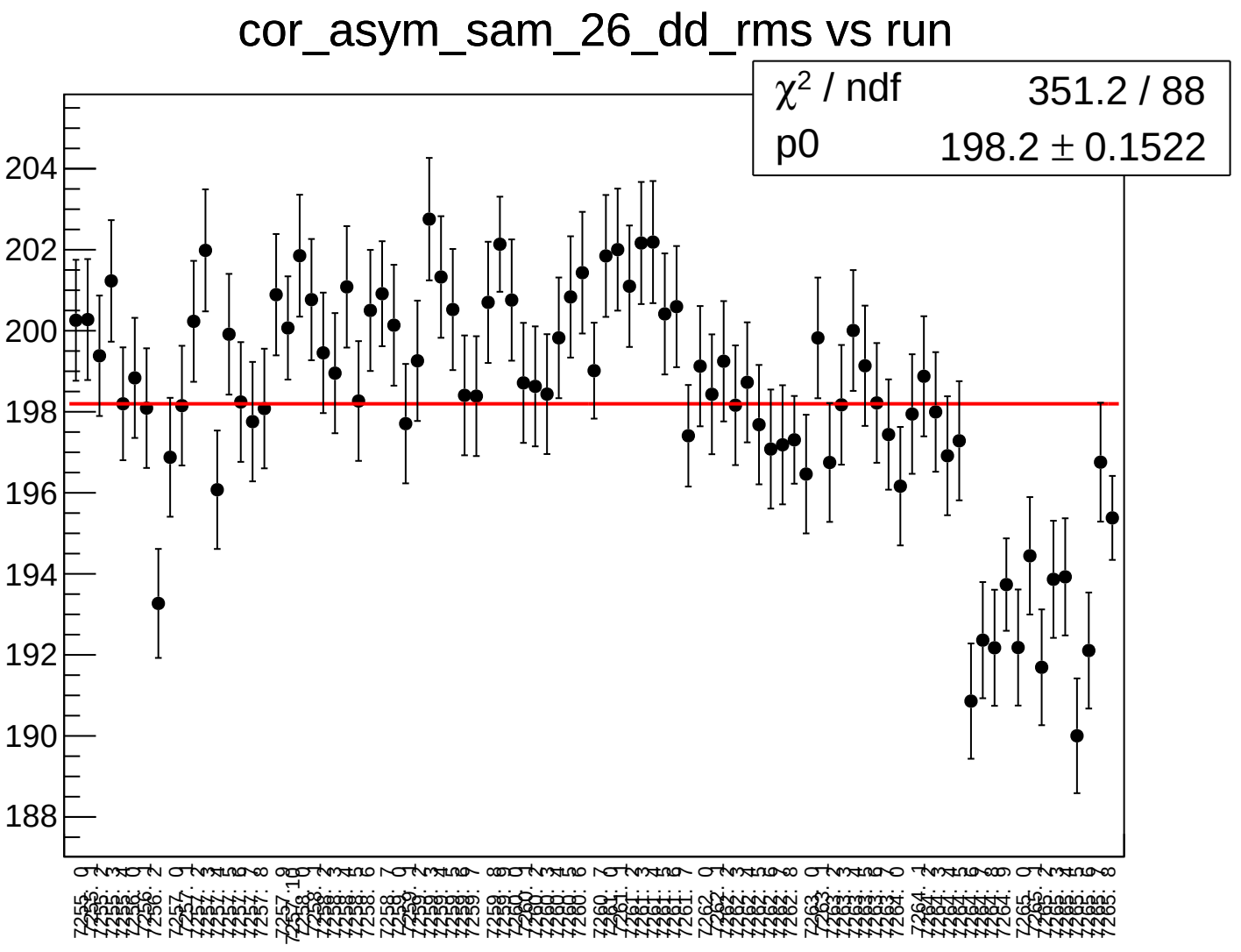

reg_asym_sam_26_dd_rms vs run
χ² / ndf 351.2 / 88
p0 198.2 ± 0.1522
204
202
200
198
196
194
192
190
188

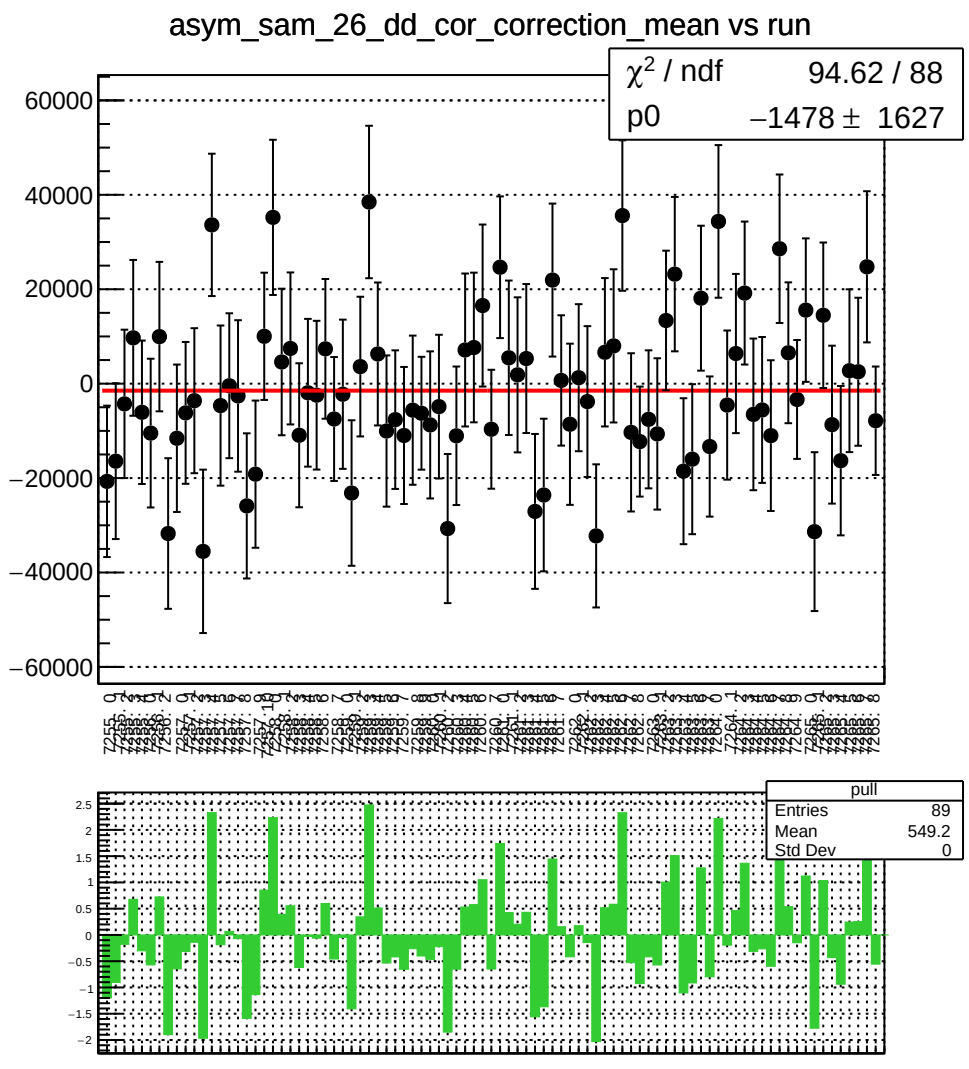

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 94.62 / 88
p0 −1478 ± 1627
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 549.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

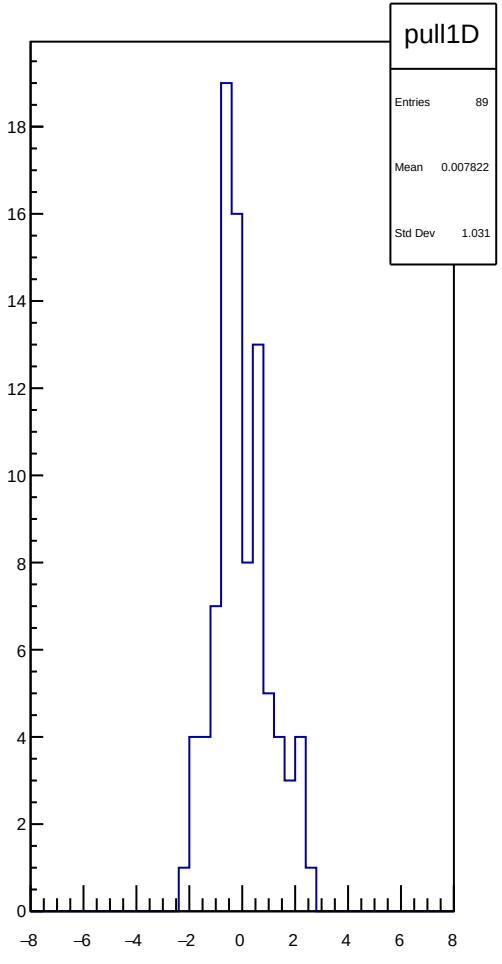

pull1D
Entries 89
Mean 0.007822
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

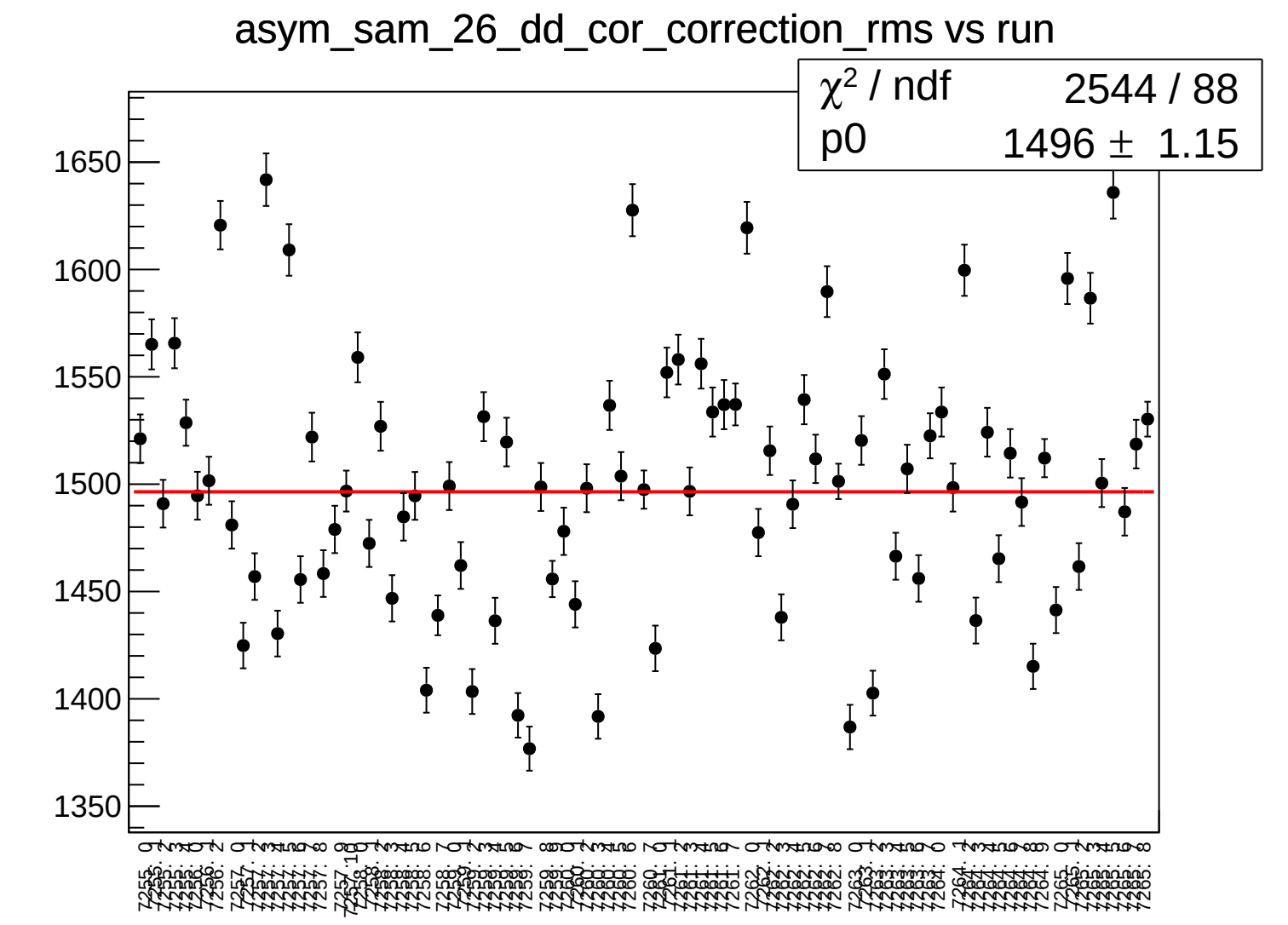

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 2544 / 88
p0 1496 ± 1.15
1650
1600
1550
1500
1450
1400
1350

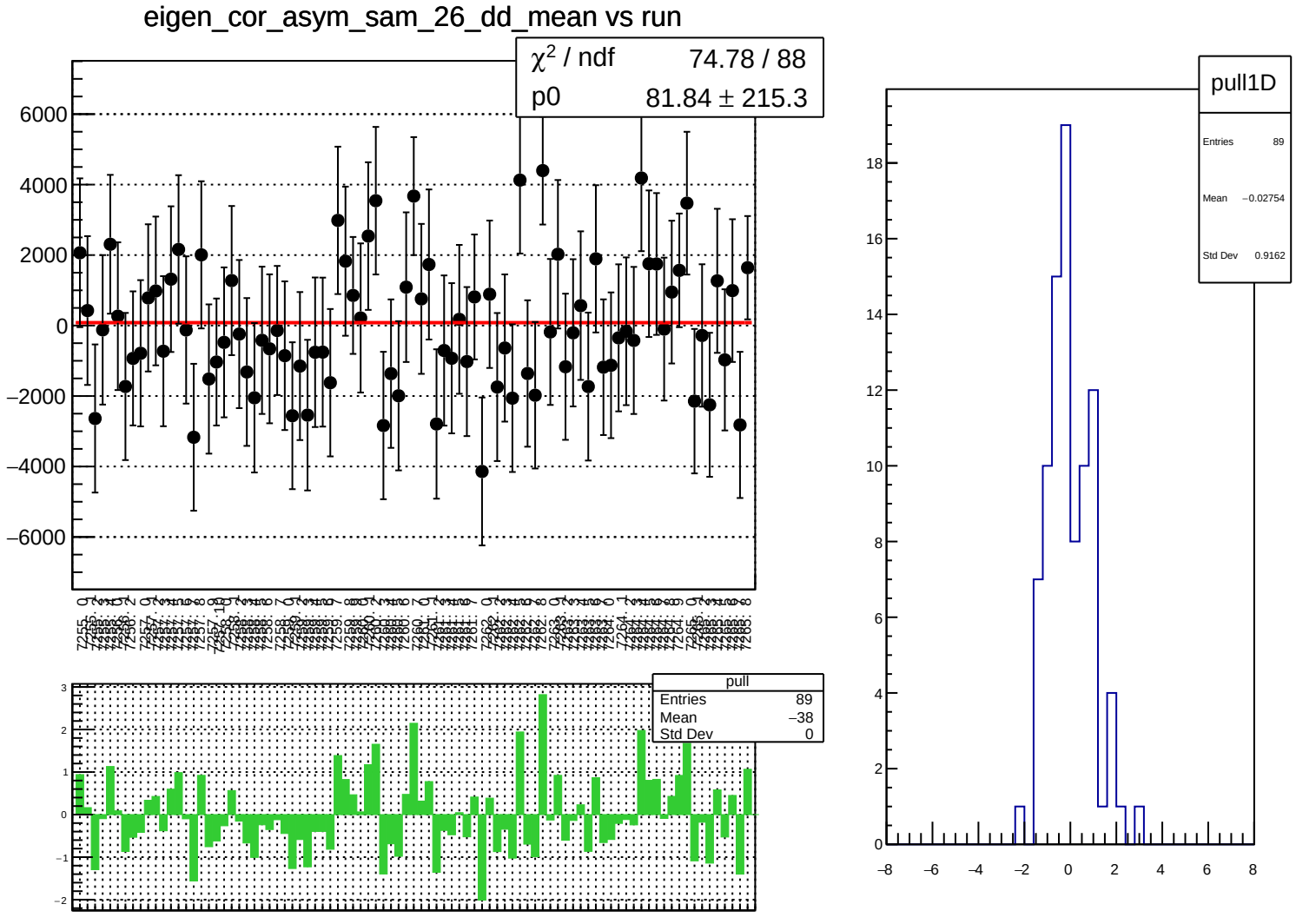

cor_asym_sam_26_dd_mean vs run
χ² / ndf 74.78 / 88
p0 81.84 ± 215.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −38
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02754
Std Dev 0.9162
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

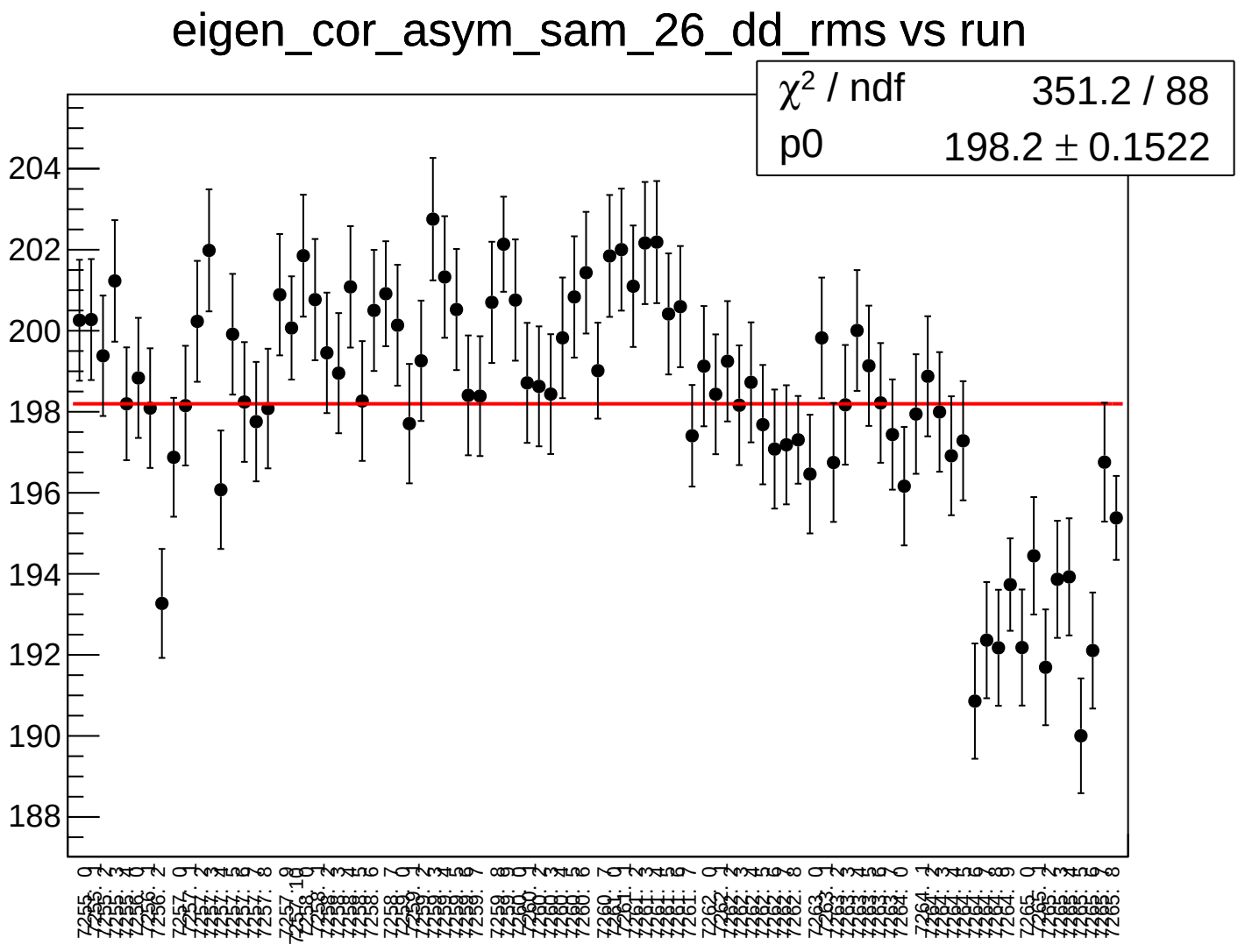

cor_asym_sam_26_dd_rms vs run
χ² / ndf 351.2 / 88
p0 198.2 ± 0.1522
204
202
200
198
196
194
192
190
188

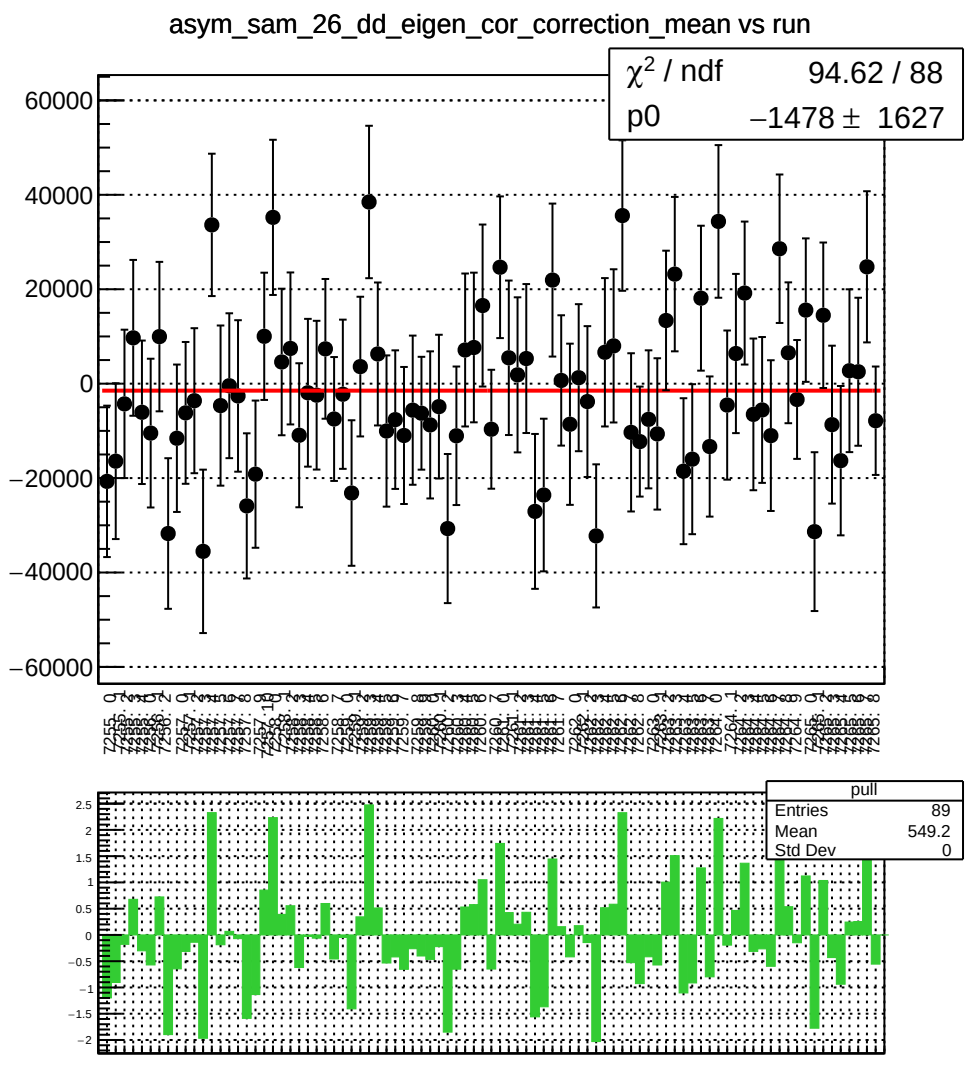

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 94.62 / 88
p0 −1478 ± 1627
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 549.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

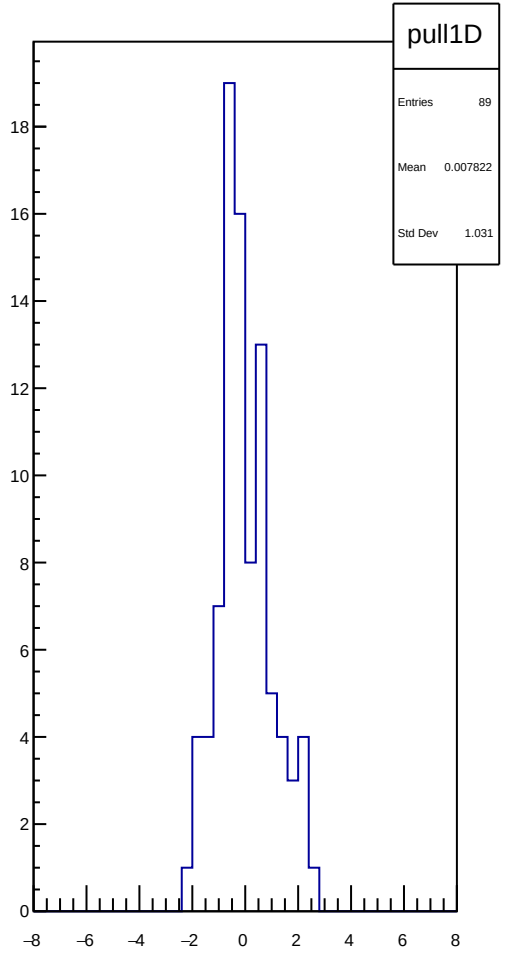

pull1D
Entries 89
Mean 0.007822
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

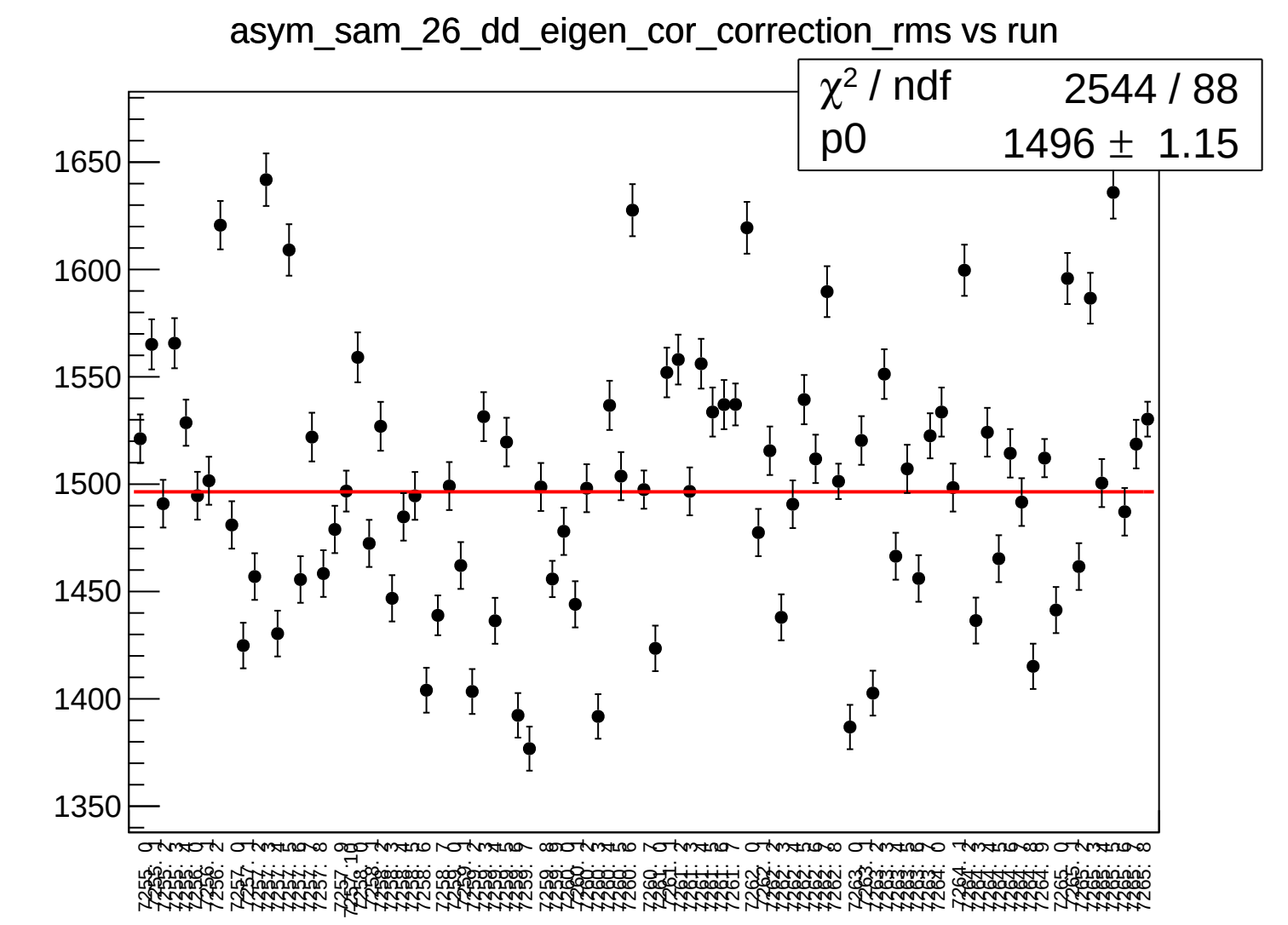

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 2544 / 88
p0 1496 ± 1.15
1650
1600
1550
1500
1450
1400
1350

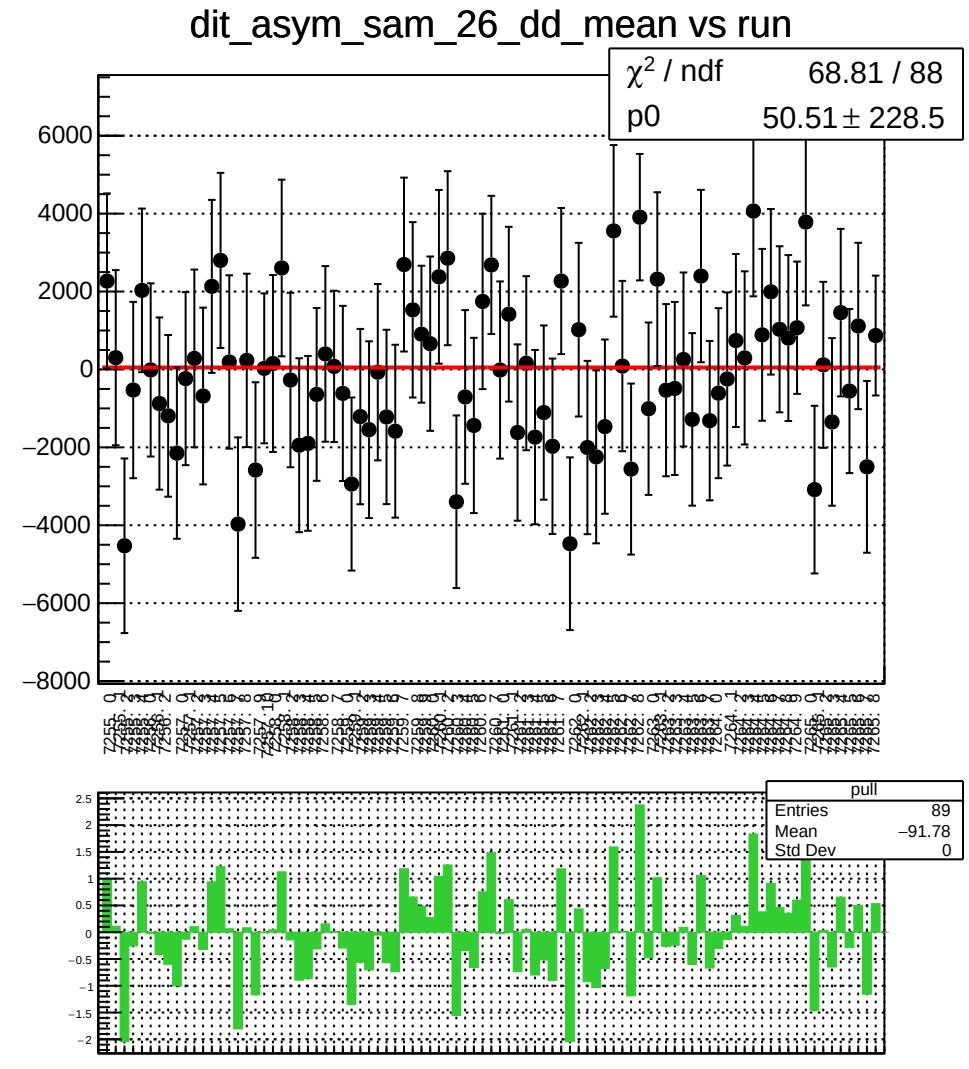

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 74.78 / 88
p0 81.84 ± 215.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −38
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02754
Std Dev 0.9162
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

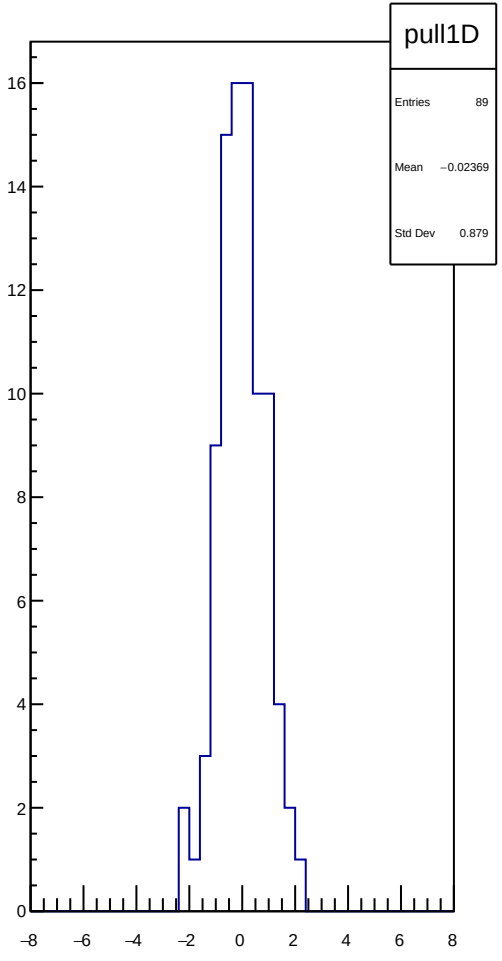

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 351.2 / 88
p0 198.2 ± 0.1522
204
202
200
198
196
194
192
190
188

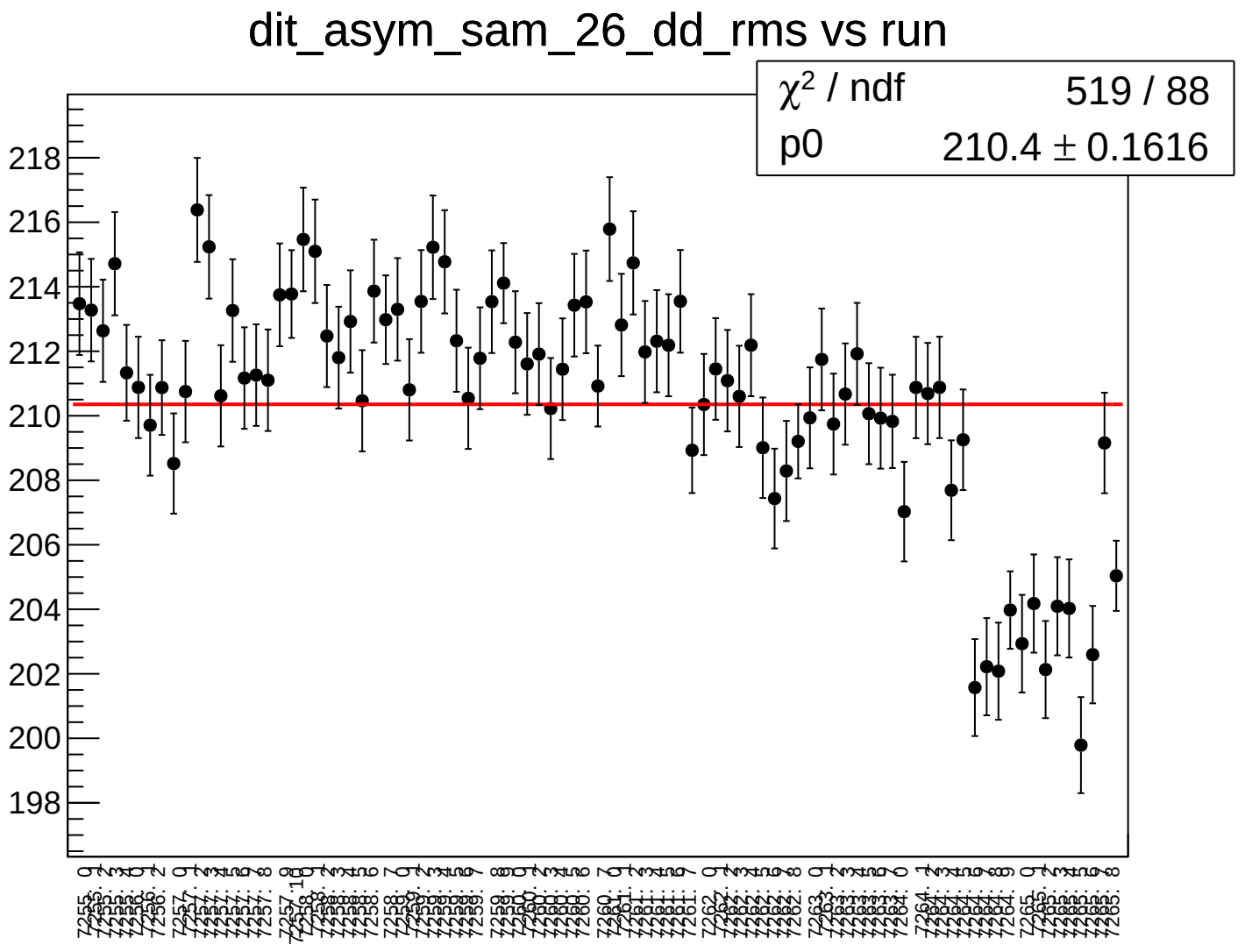

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.62 / 88
p0 −1478 ± 1627
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 549.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

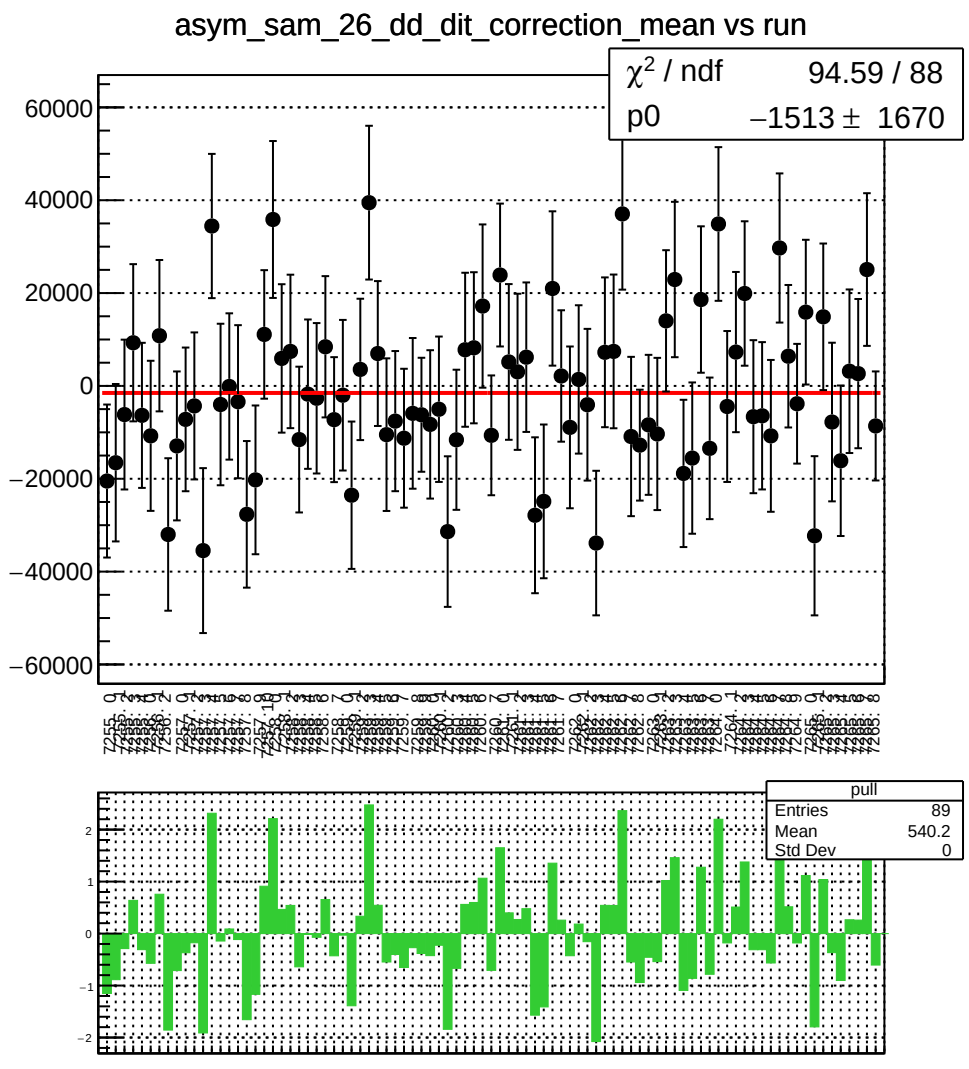

pull1D
Entries 89
Mean 0.007822
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

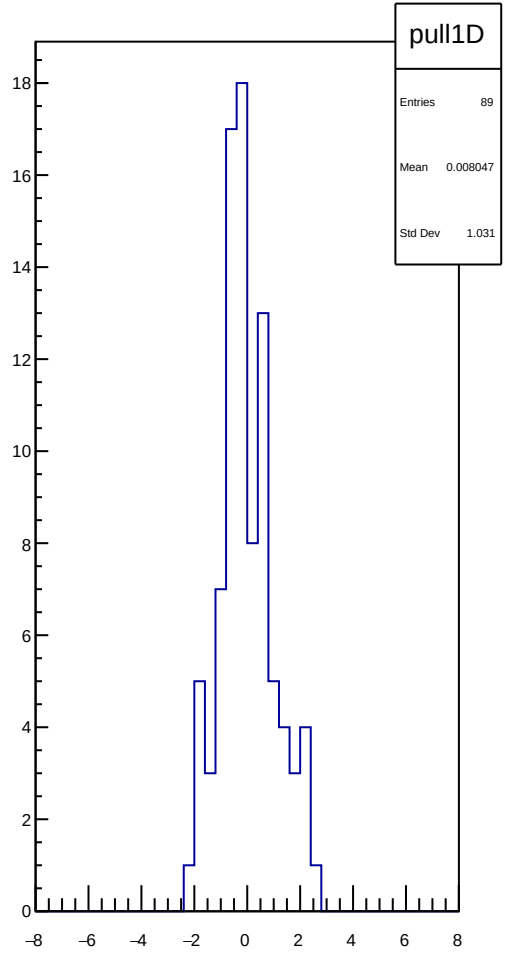

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2544 / 88
p0 1496 ± 1.15
1650
1600
1550
1500
1450
1400
1350

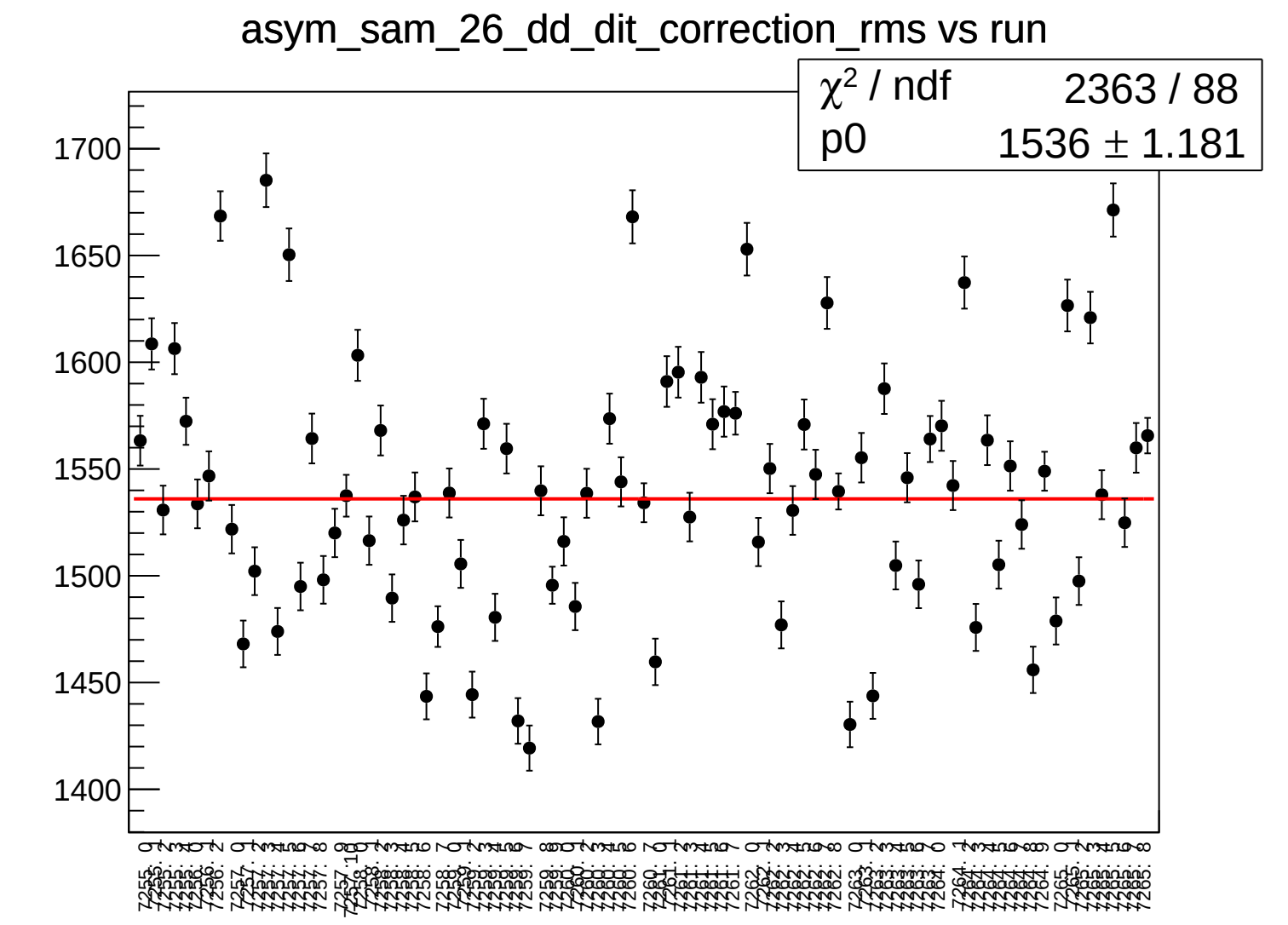

dit_asym_sam_26_dd_mean vs run
χ² / ndf 68.81 / 88
p0 50.51 ± 228.5
pull
Entries 89
Mean −91.78
Std Dev 0

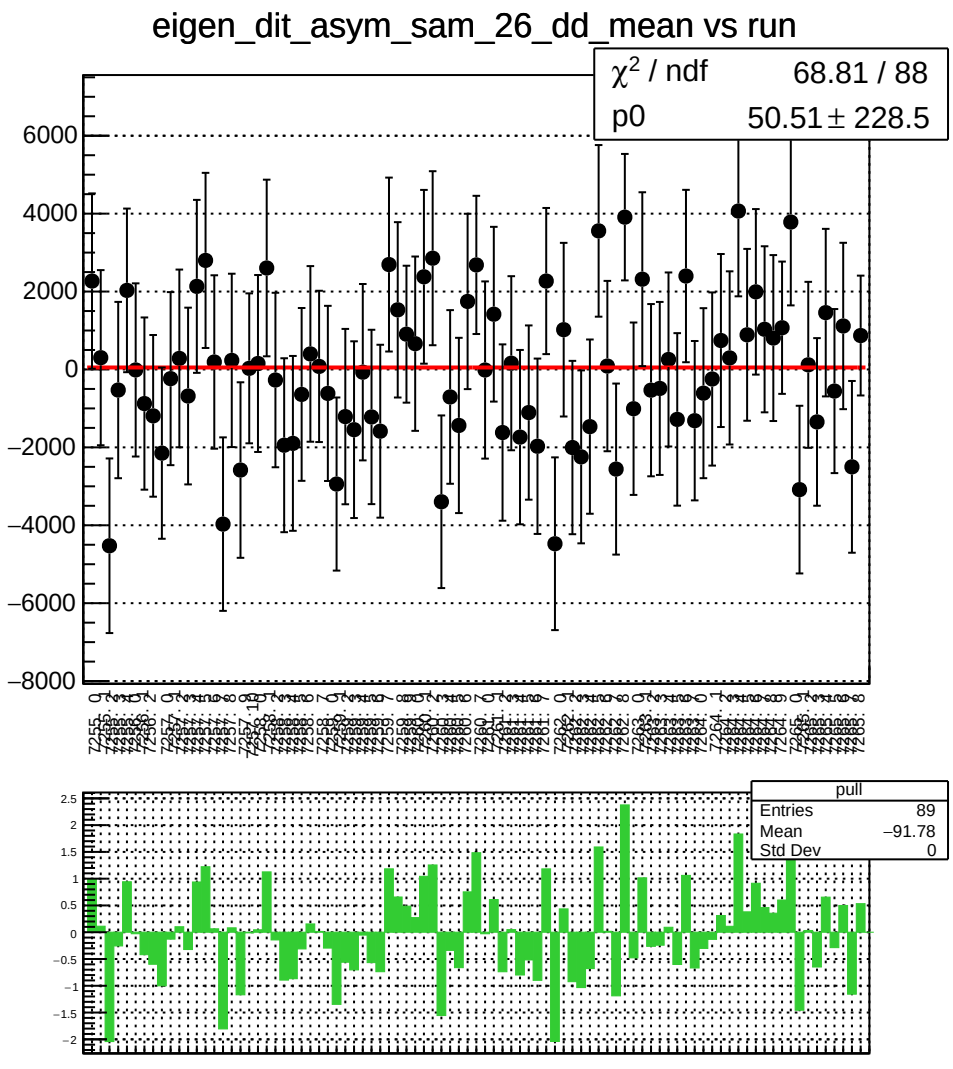

pull1D
Entries 89
Mean −0.02369
Std Dev 0.879

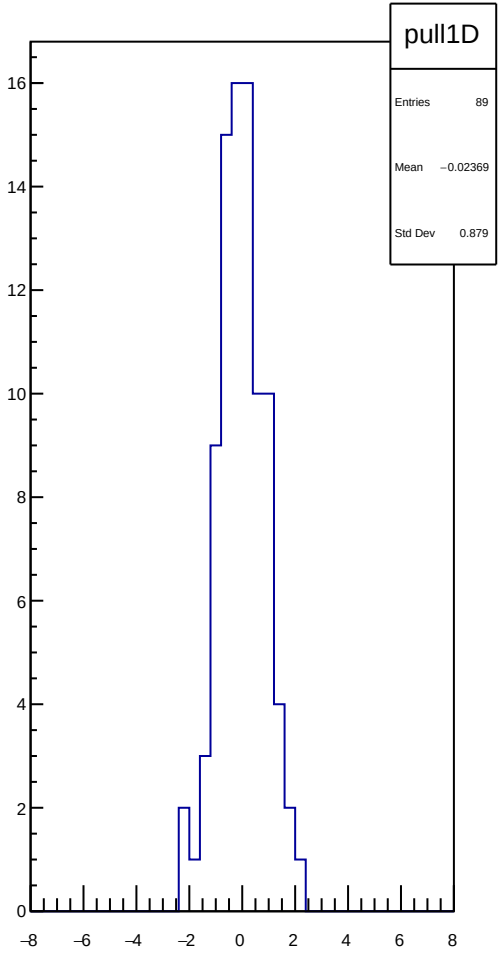

dit_asym_sam_26_dd_rms vs run
χ² / ndf 519 / 88
p0 210.4 ± 0.1616
218
216
214
212
210
208
206
204
202
200
198

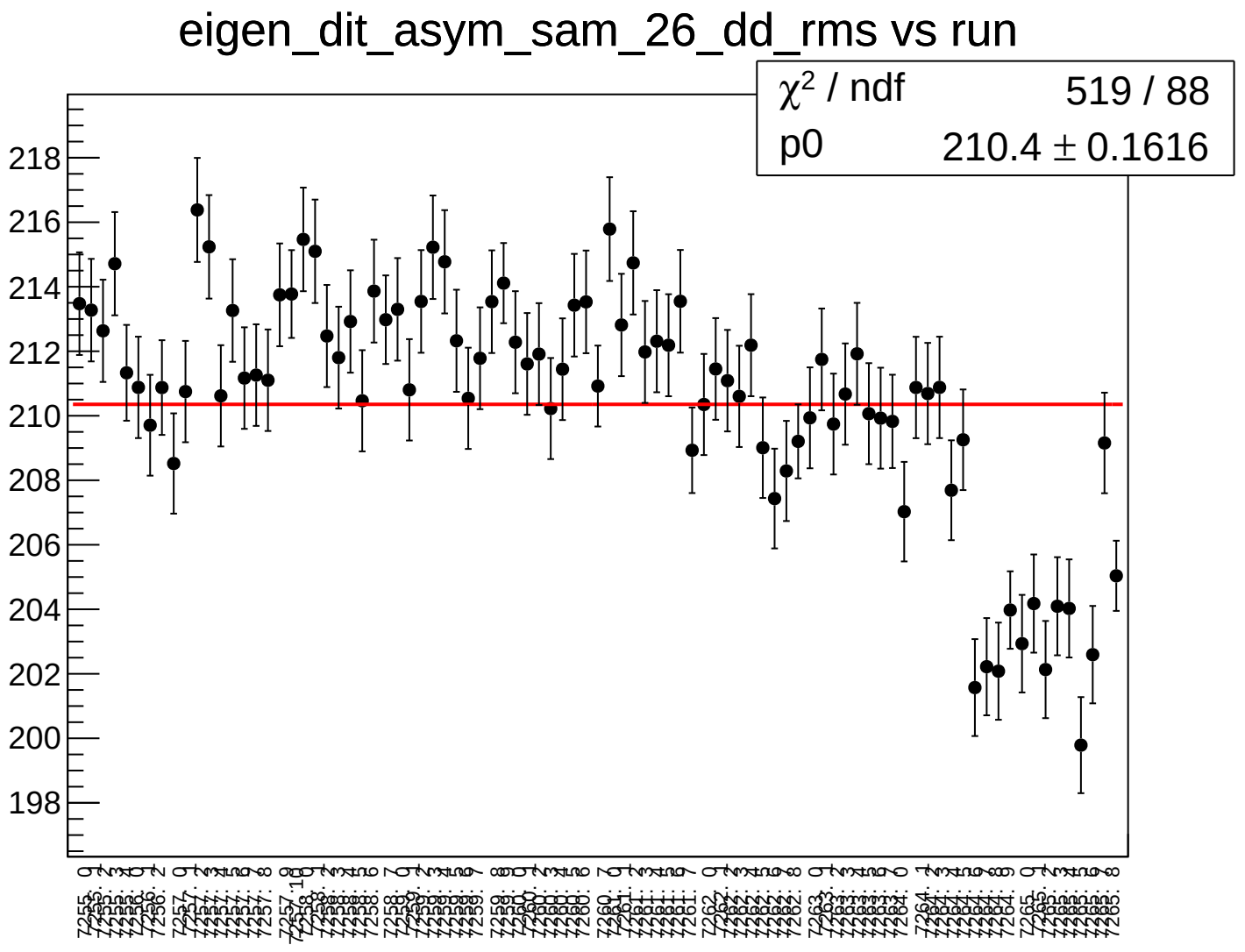

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 94.59 / 88
p0 −1513 ± 1670
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 540.2
Std Dev 0
2
1
0
−1
−2

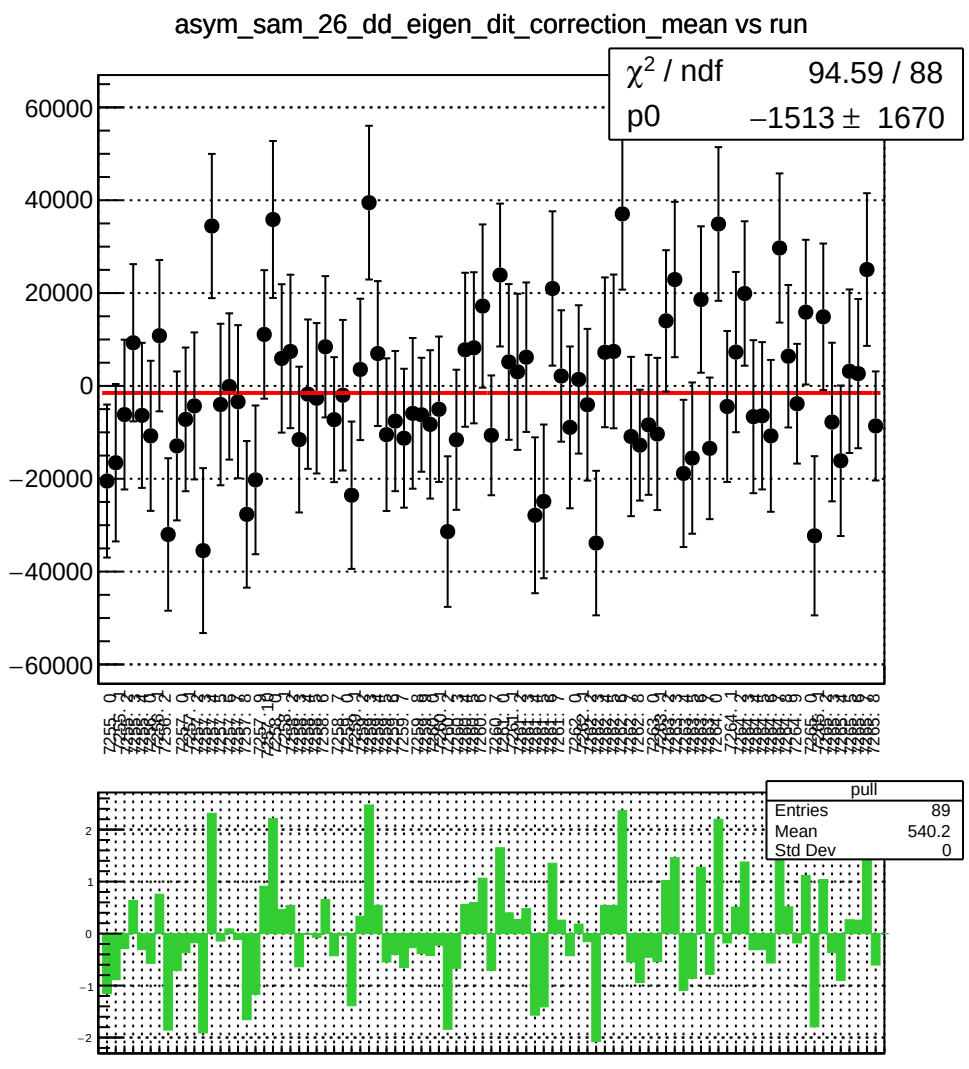

pull1D
Entries 89
Mean 0.008047
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

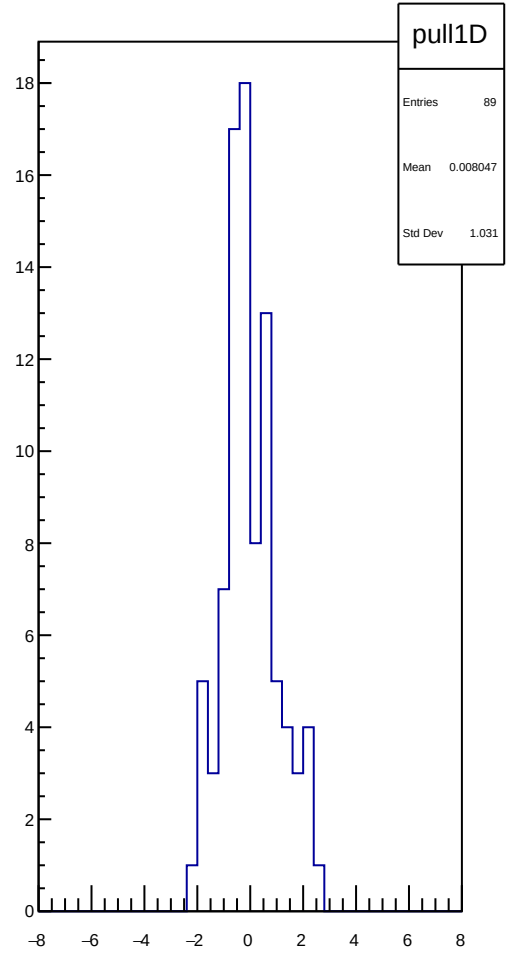

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 2363 / 88
p0 1536 ± 1.181
1700
1650
1600
1550
1500
1450
1400

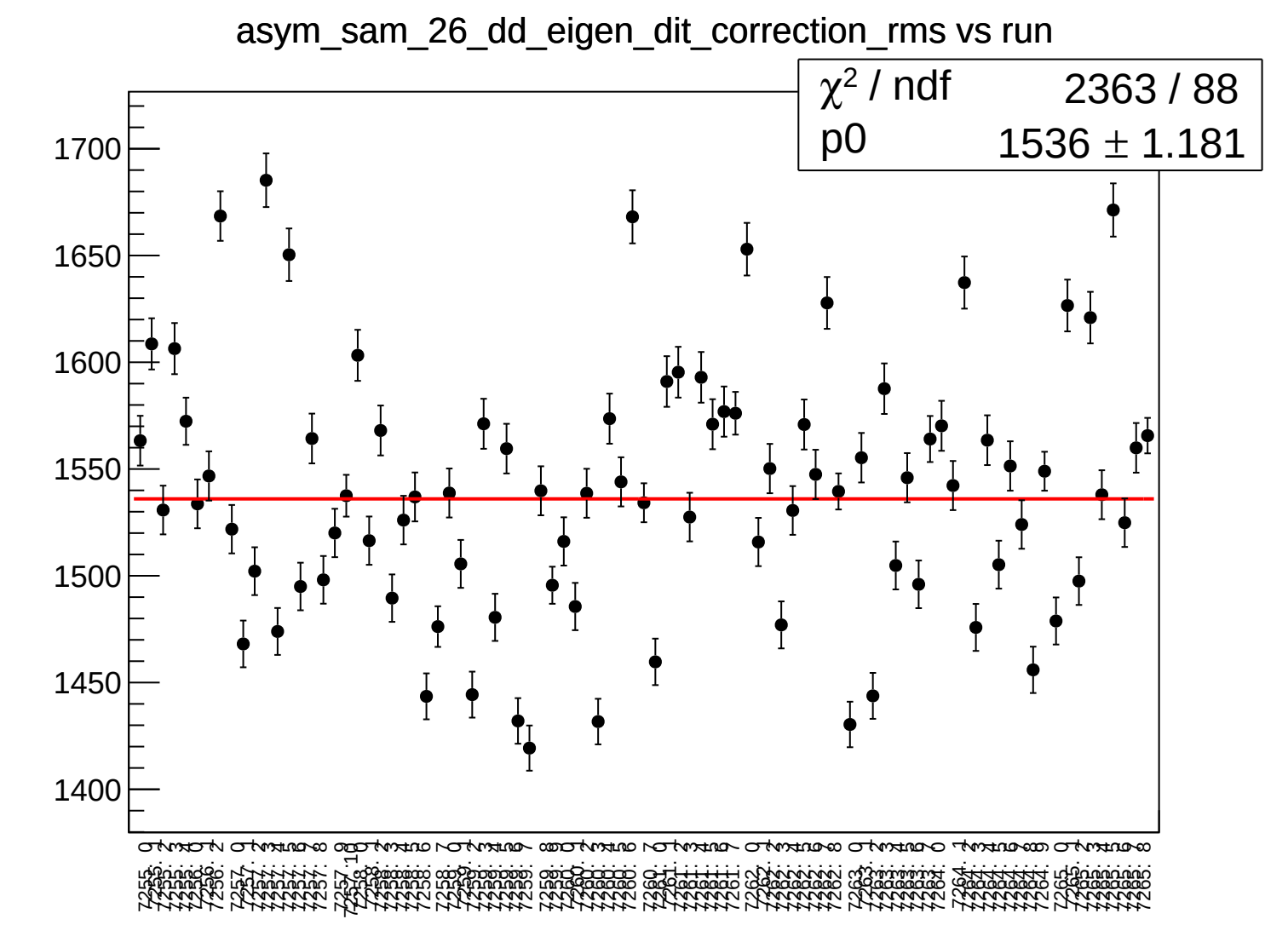

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 68.81 / 88
p0 50.51 ± 228.5
pull
Entries 89
Mean −91.78
Std Dev 0

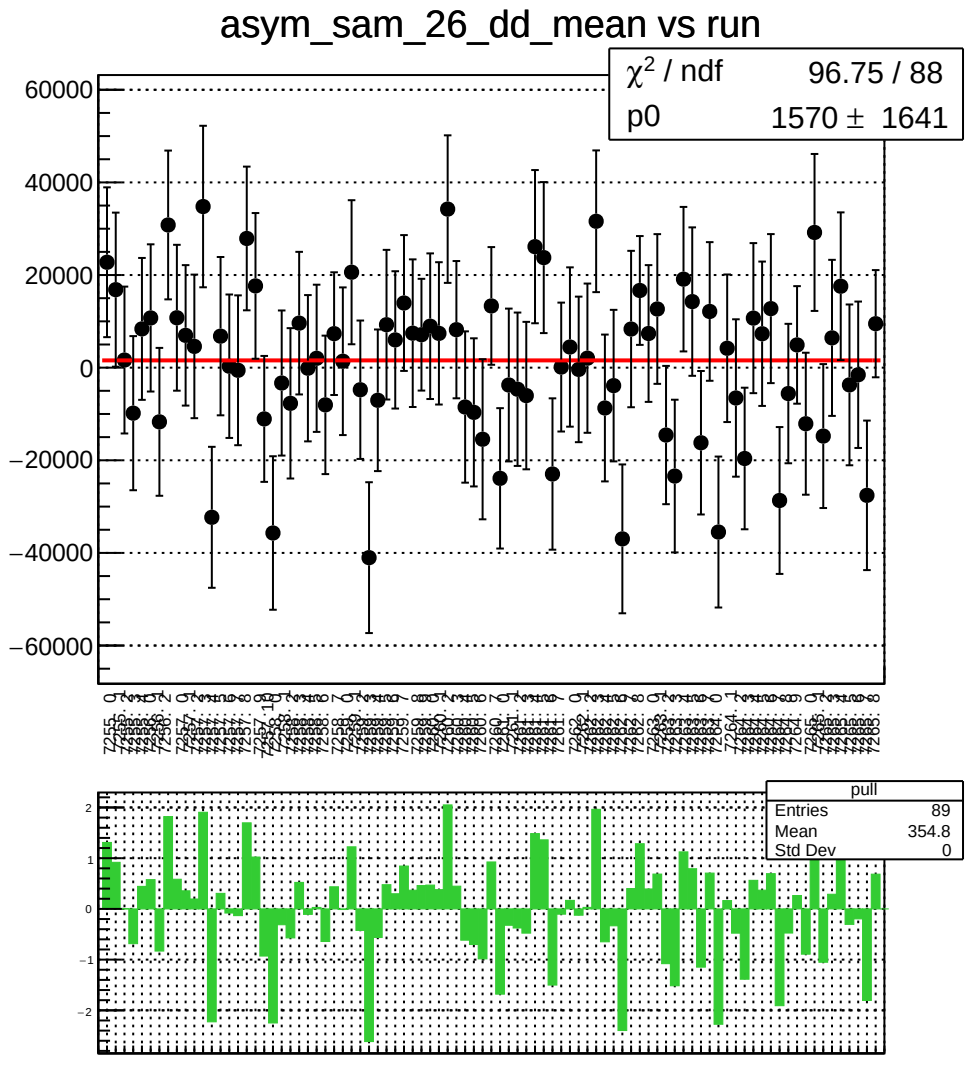

pull1D
Entries 89
Mean −0.02369
Std Dev 0.879

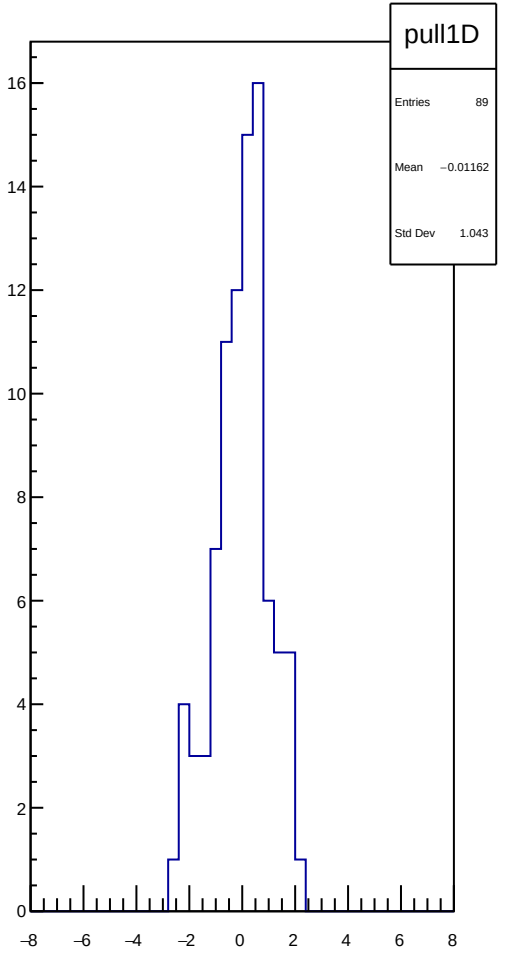

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 519 / 88
p0 210.4 ± 0.1616
218
216
214
212
210
208
206
204
202
200
198

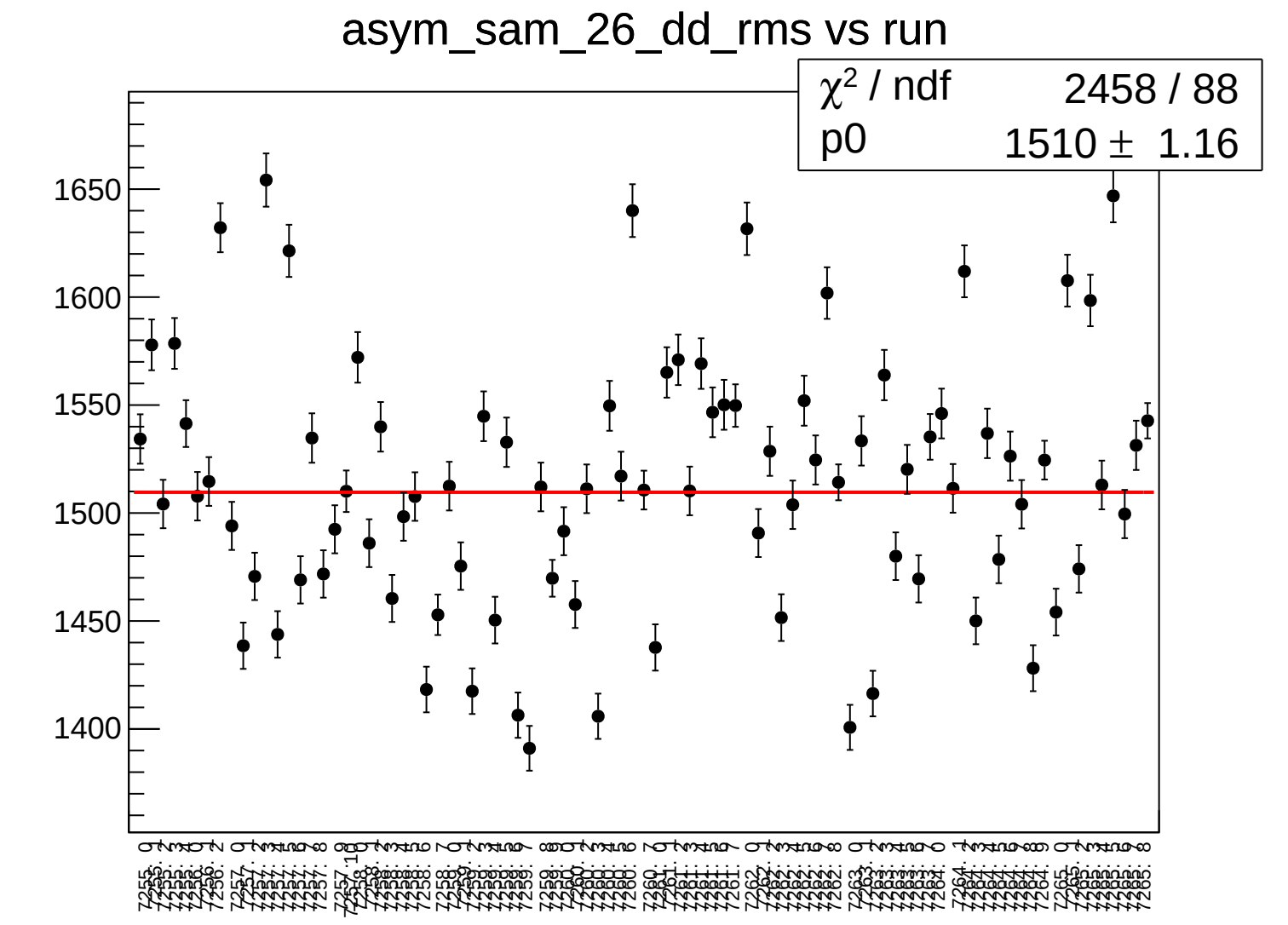

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.59 / 88
p0 −1513 ± 1670
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 540.2
Std Dev 0
2
1
0
−1
−2

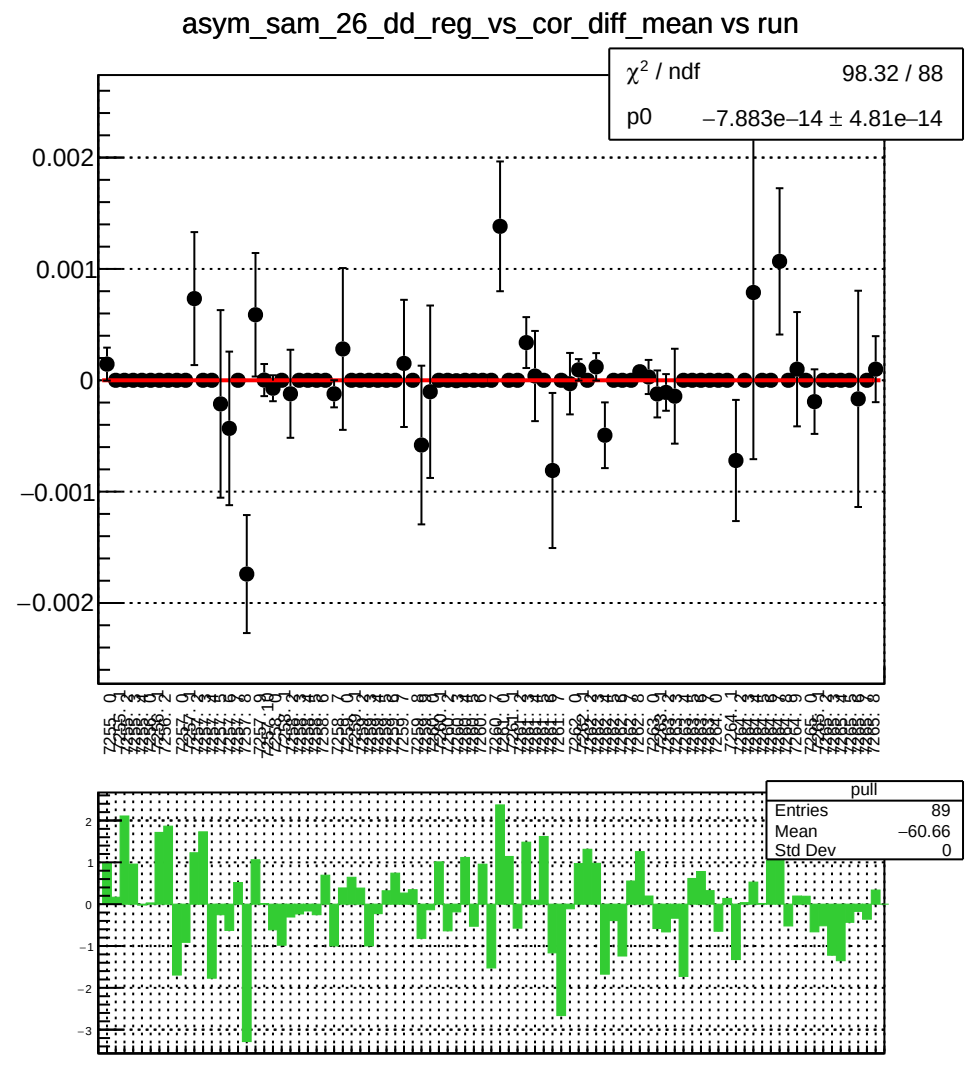

pull1D
Entries 89
Mean 0.008047
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

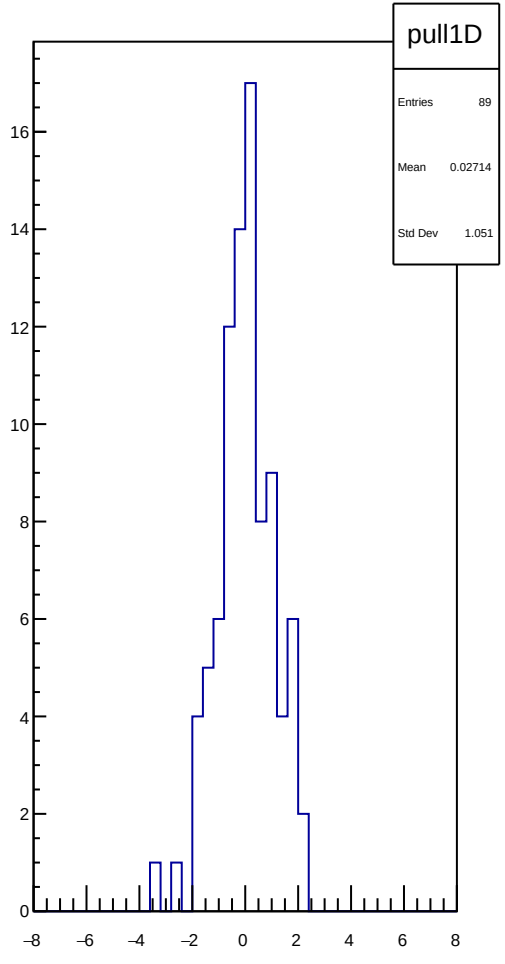

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2363 / 88
p0 1536 ± 1.181
1700
1650
1600
1550
1500
1450
1400

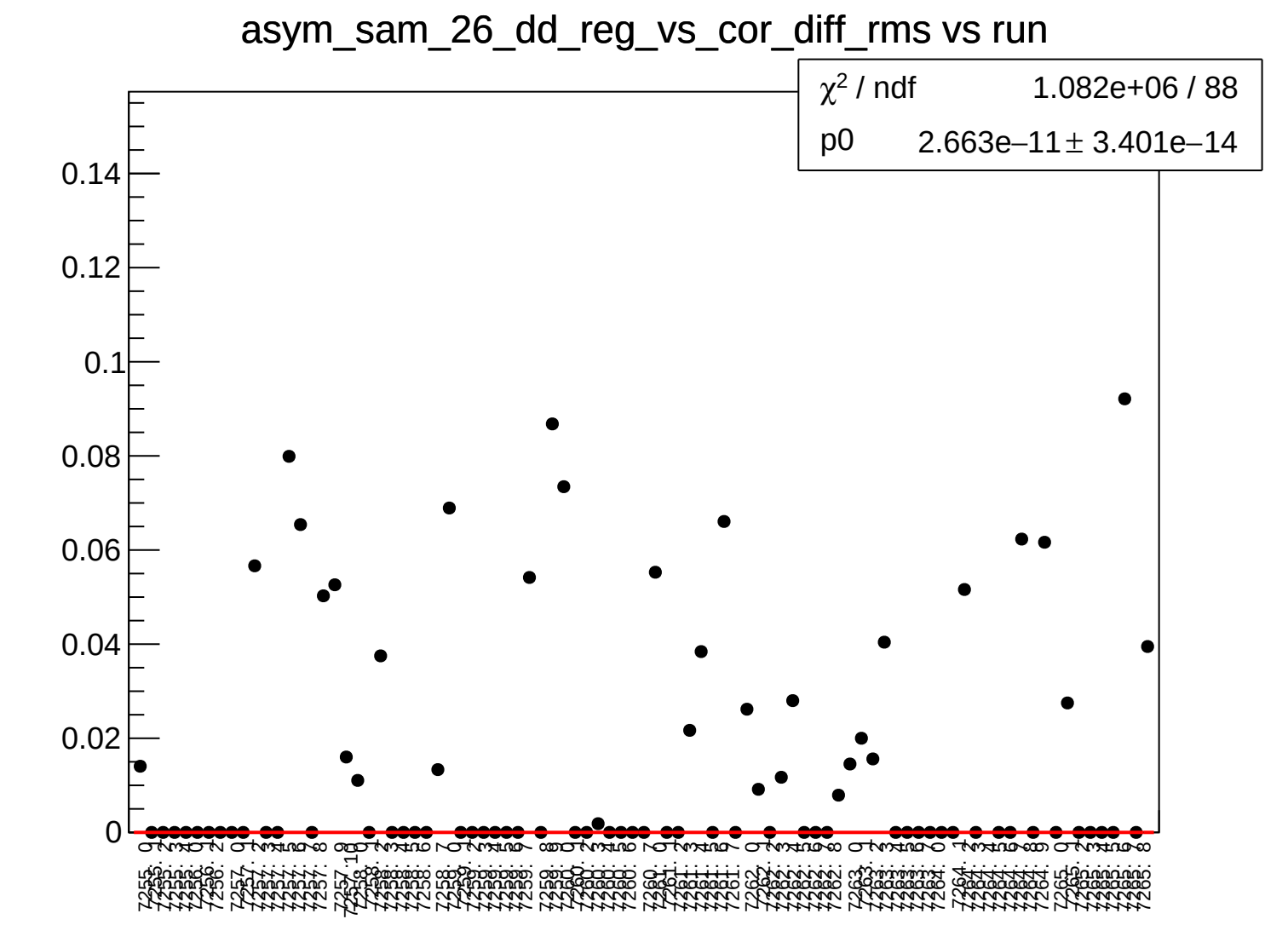

asym_sam_26_dd_mean vs run
χ² / ndf 96.75 / 88
p0 1570 ± 1641
pull
Entries 89
Mean 354.8
Std Dev 0

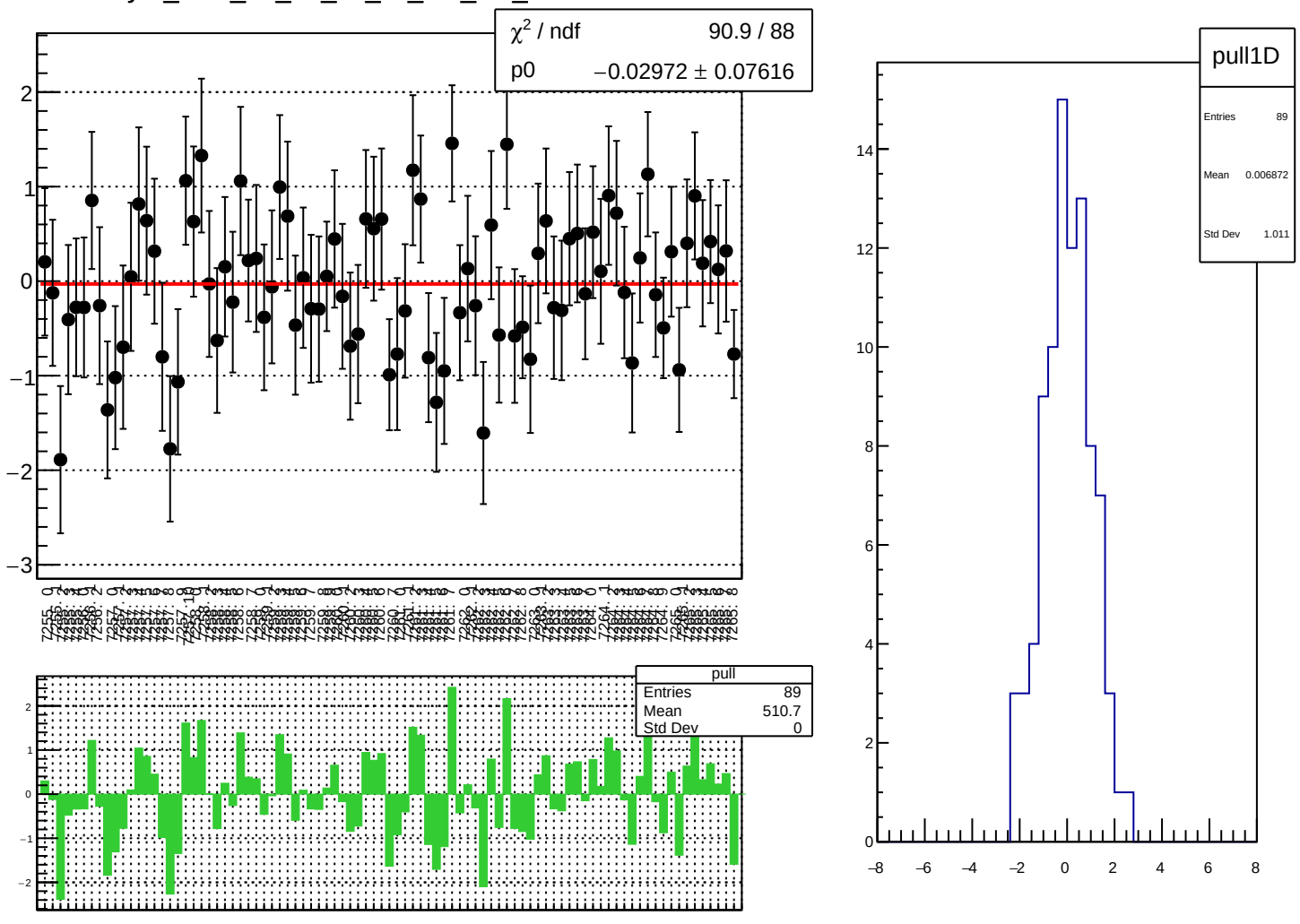

pull1D
Entries 89
Mean −0.01162
Std Dev 1.043

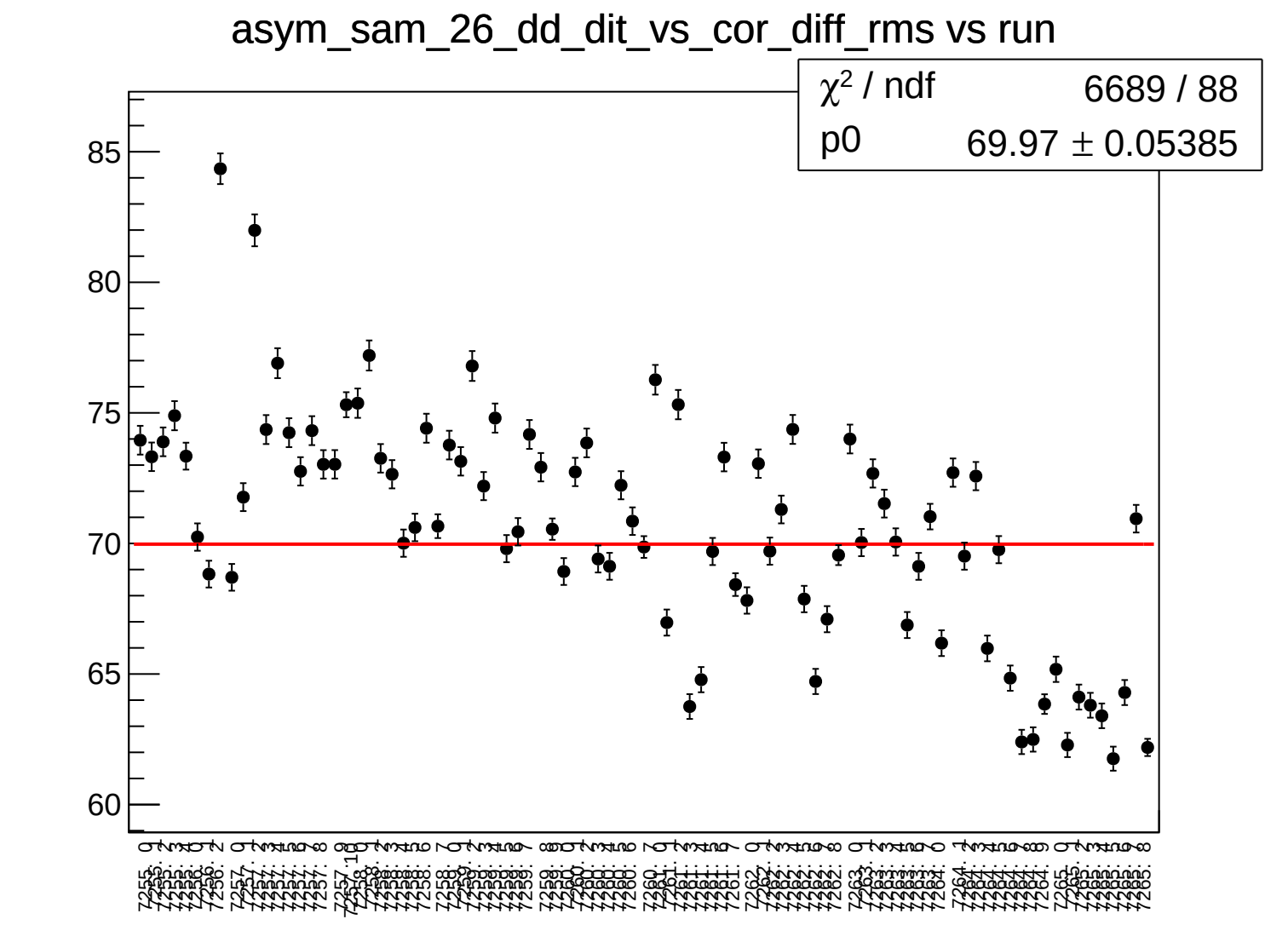

asym_sam_26_dd_rms vs run
χ² / ndf 2458 / 88
p0 1510 ± 1.16
1650
1600
1550
1500
1450
1400

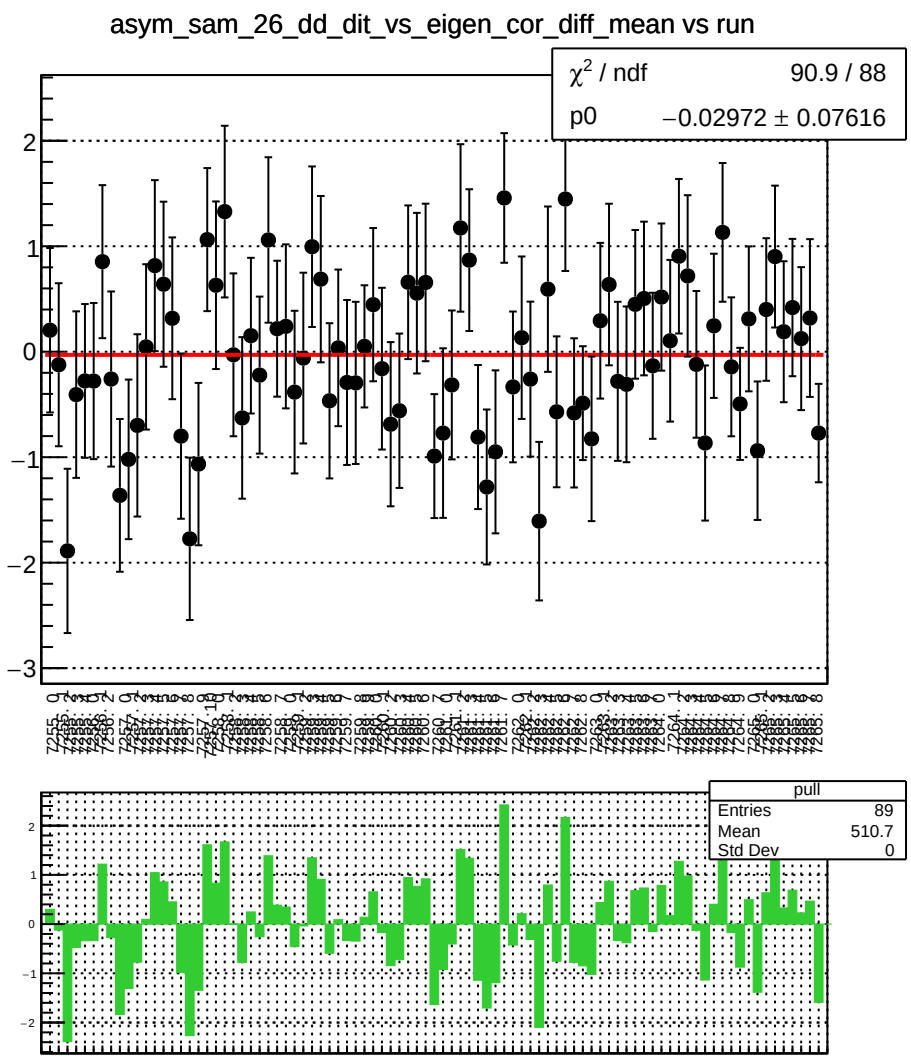

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.32 / 88
p0 −7.883e−14 ± 4.81e−14
0.002
0.001
0
−0.001
−0.002
pull
Entries 89
Mean −60.66
Std Dev 0
2
1
0
−1
−2
−3

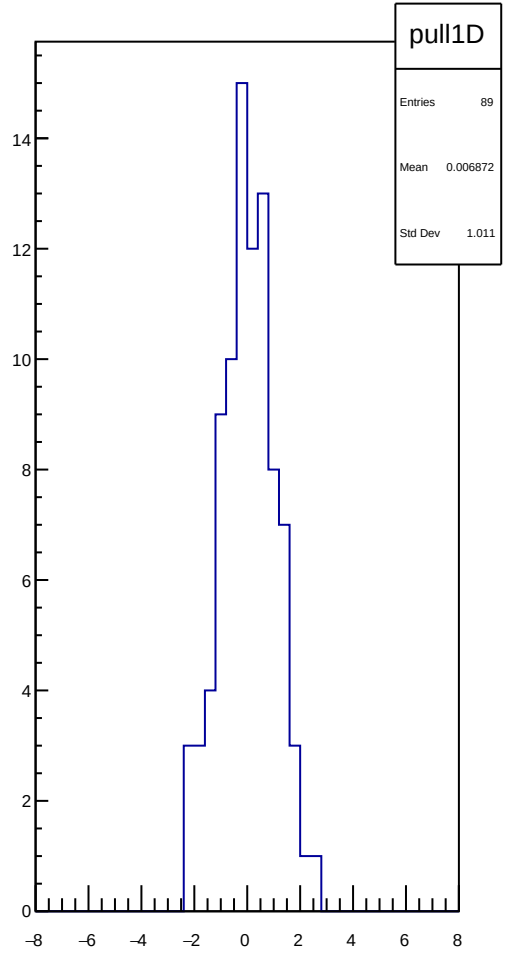

pull1D
Entries 89
Mean 0.02714
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

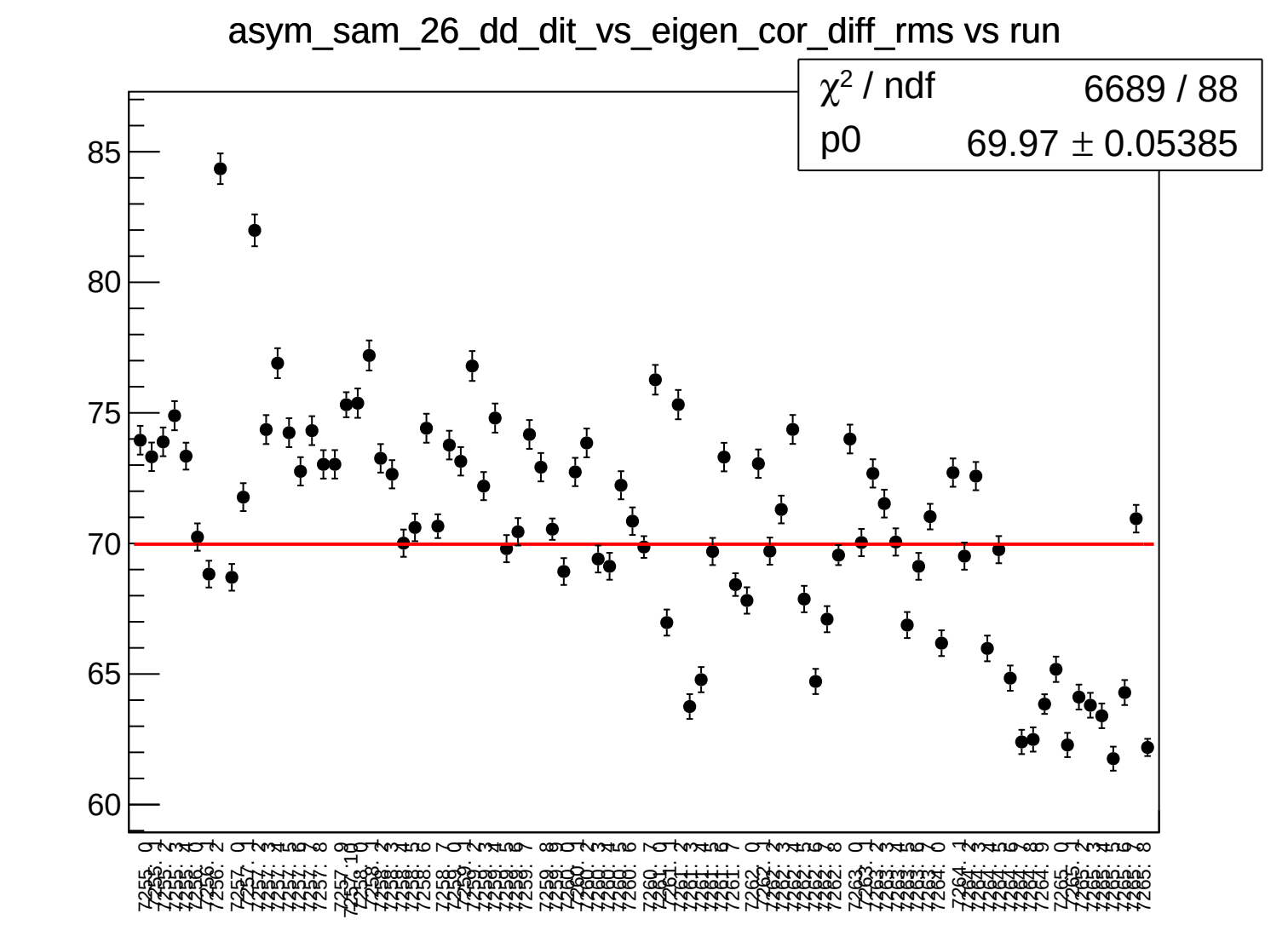

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.082e+06 / 88
p0 2.663e−11 ± 3.401e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

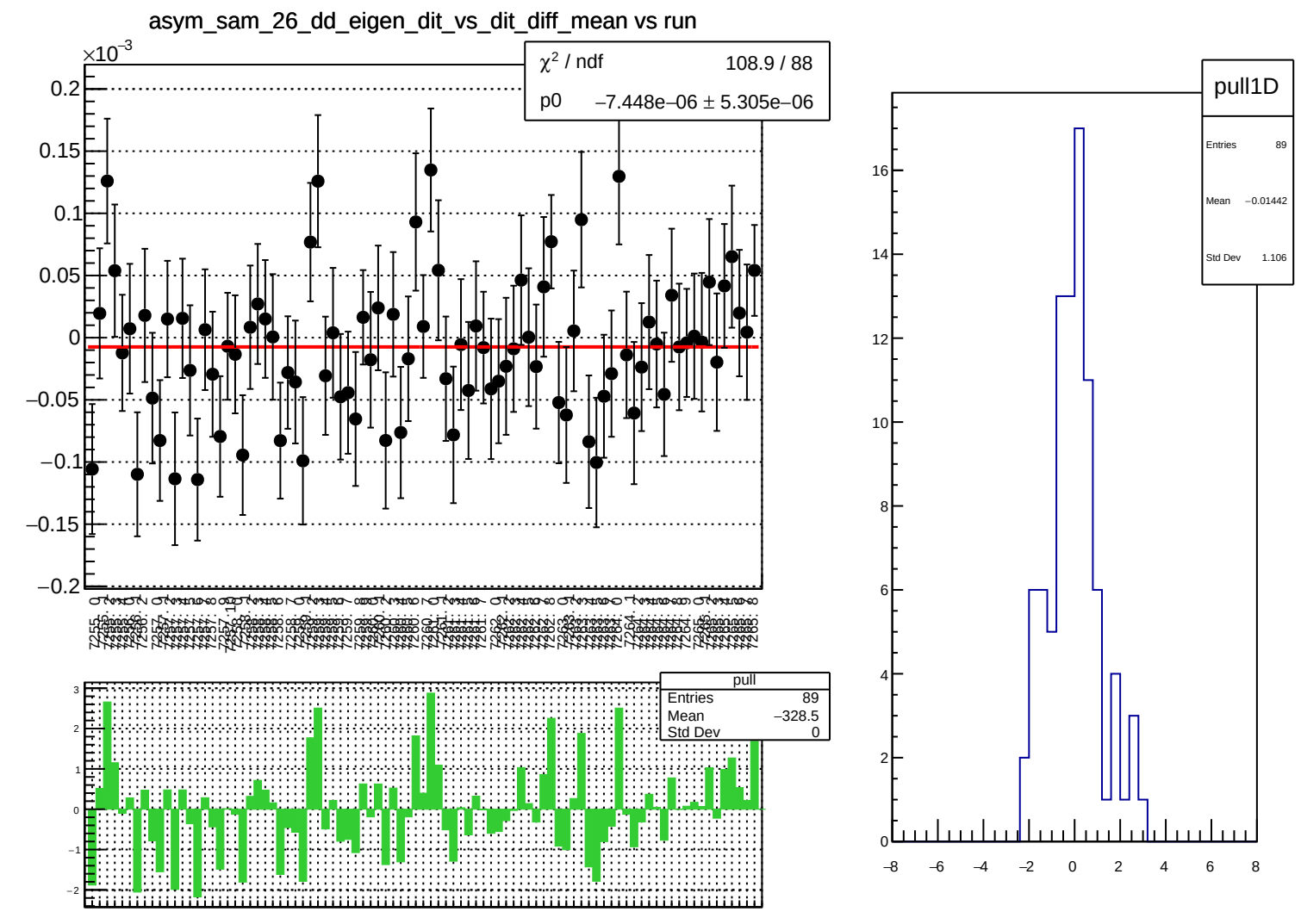

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.9 / 88
p0 −0.02972 ± 0.07616
pull
Entries 89
Mean 510.7
Std Dev 0
pull1D
Entries 89
Mean 0.006872
Std Dev 1.011

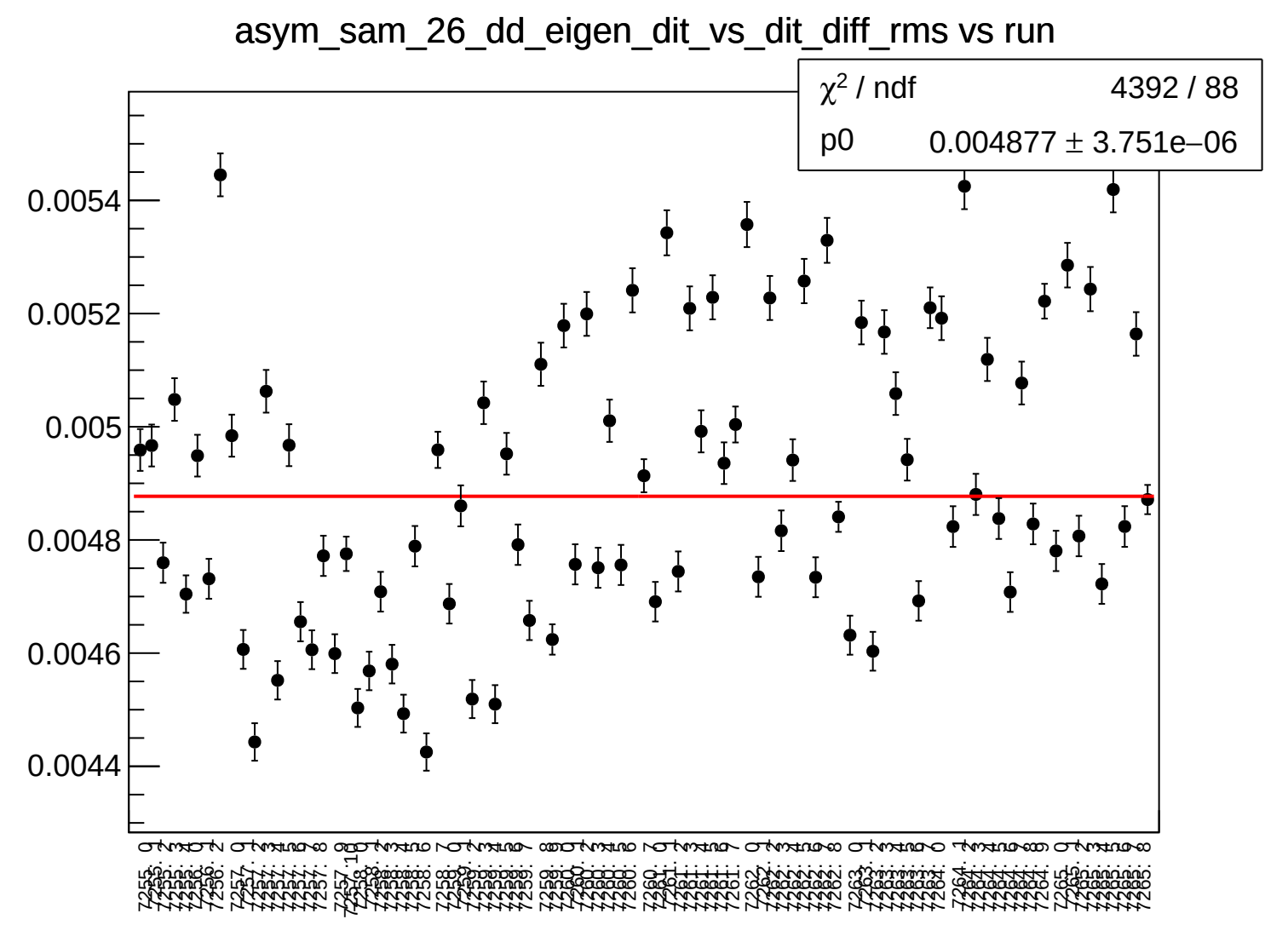

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6689 / 88
p0 69.97 ± 0.05385
85
80
75
70
65
60

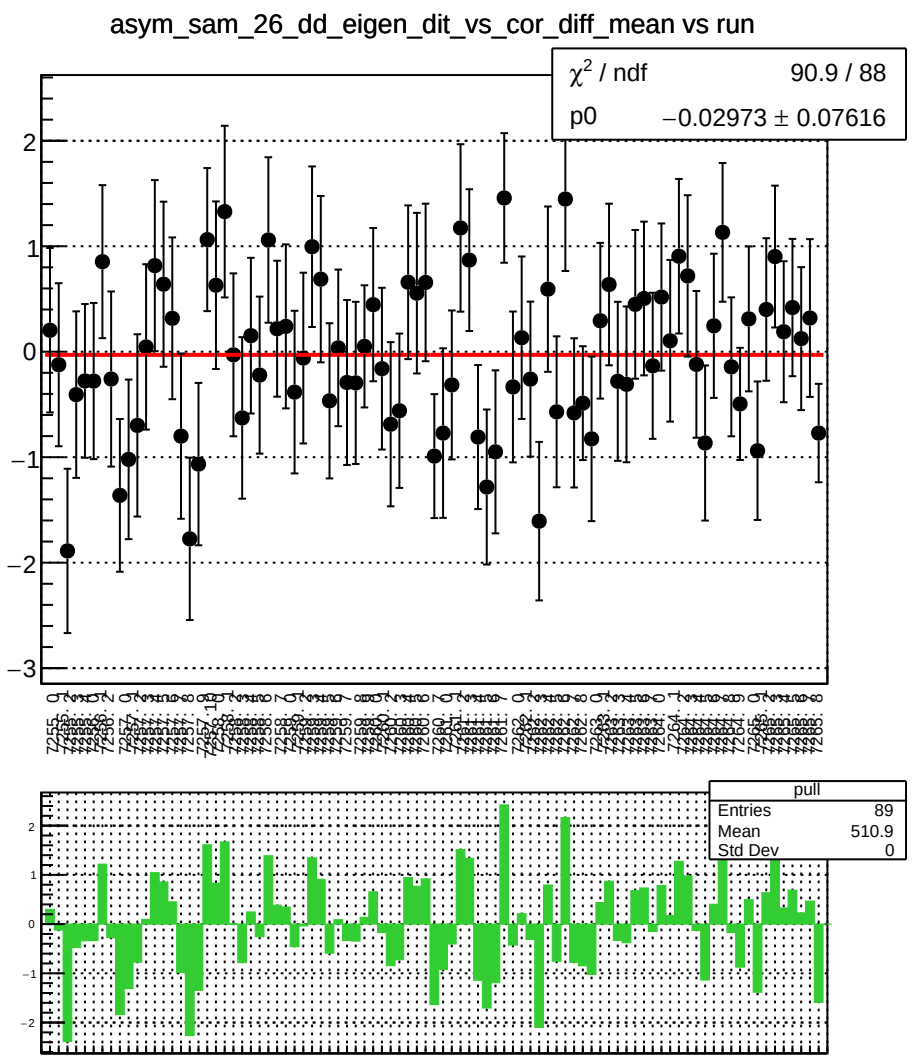

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.9 / 88
p0 −0.02972 ± 0.07616
pull
Entries 89
Mean 510.7
Std Dev 0

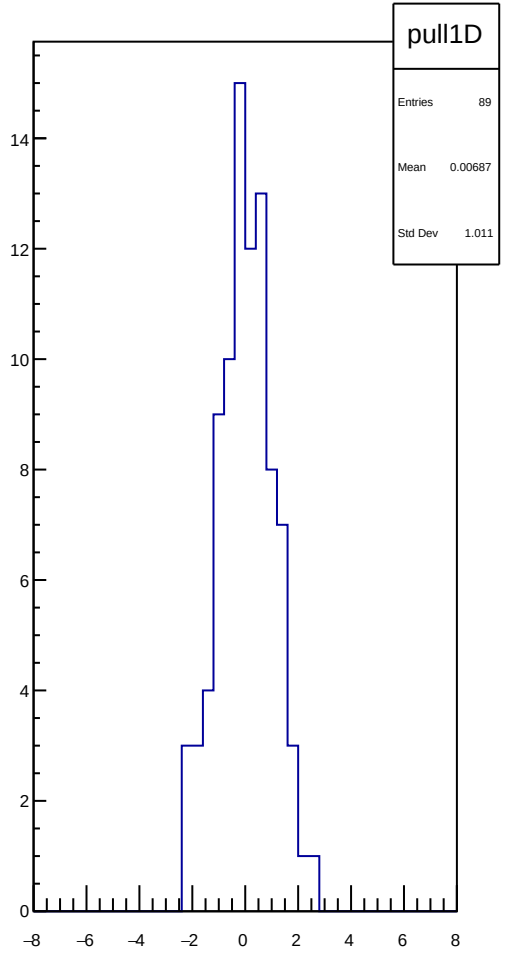

pull1D
Entries 89
Mean 0.006872
Std Dev 1.011

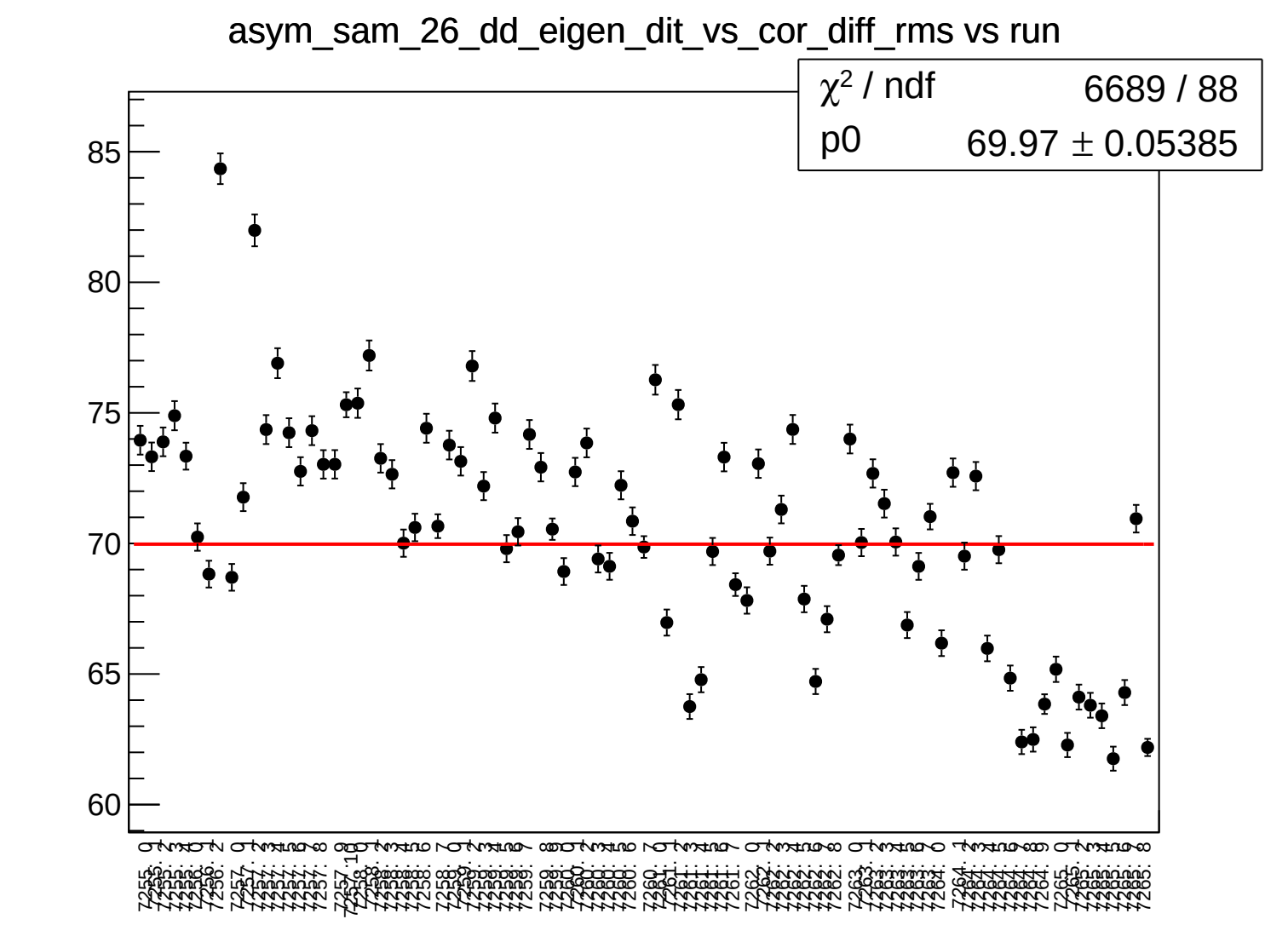

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6689 / 88
p0 69.97 ± 0.05385
85
80
75
70
65
60

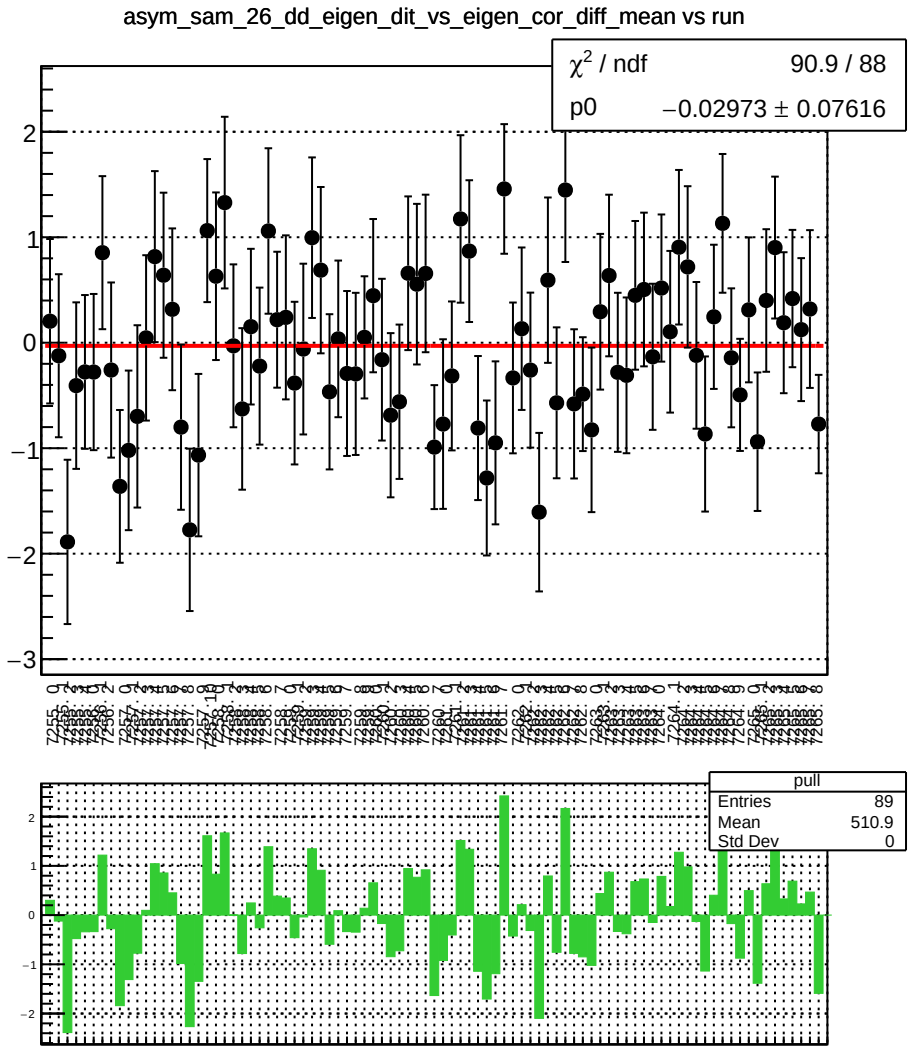

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.9 / 88
p0 −7.448e−06 ± 5.305e−06
pull
Entries 89
Mean −328.5
Std Dev 0
pull1D
Entries 89
Mean −0.01442
Std Dev 1.106

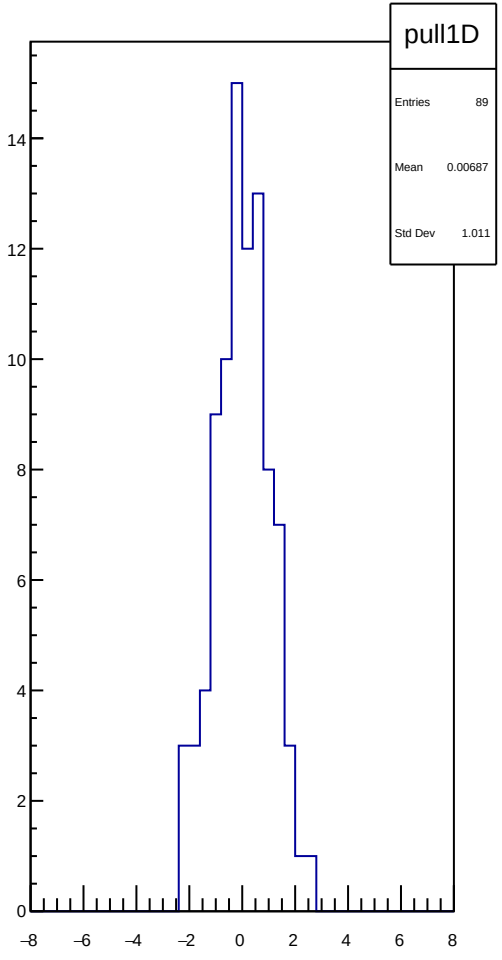

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4392 / 88
p0 0.004877 ± 3.751e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044

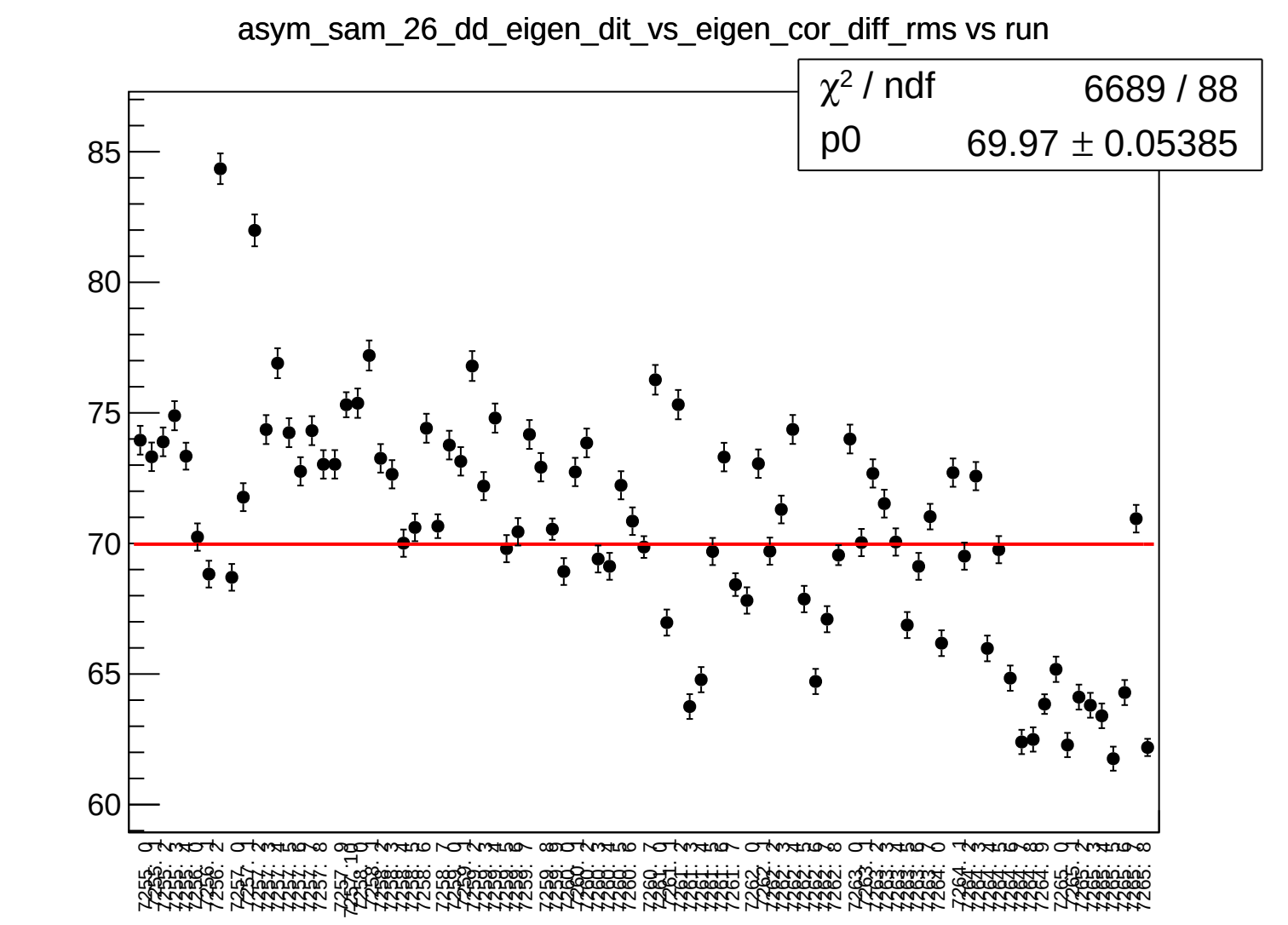

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.9 / 88
p0 −0.02973 ± 0.07616
pull
Entries 89
Mean 510.9
Std Dev 0

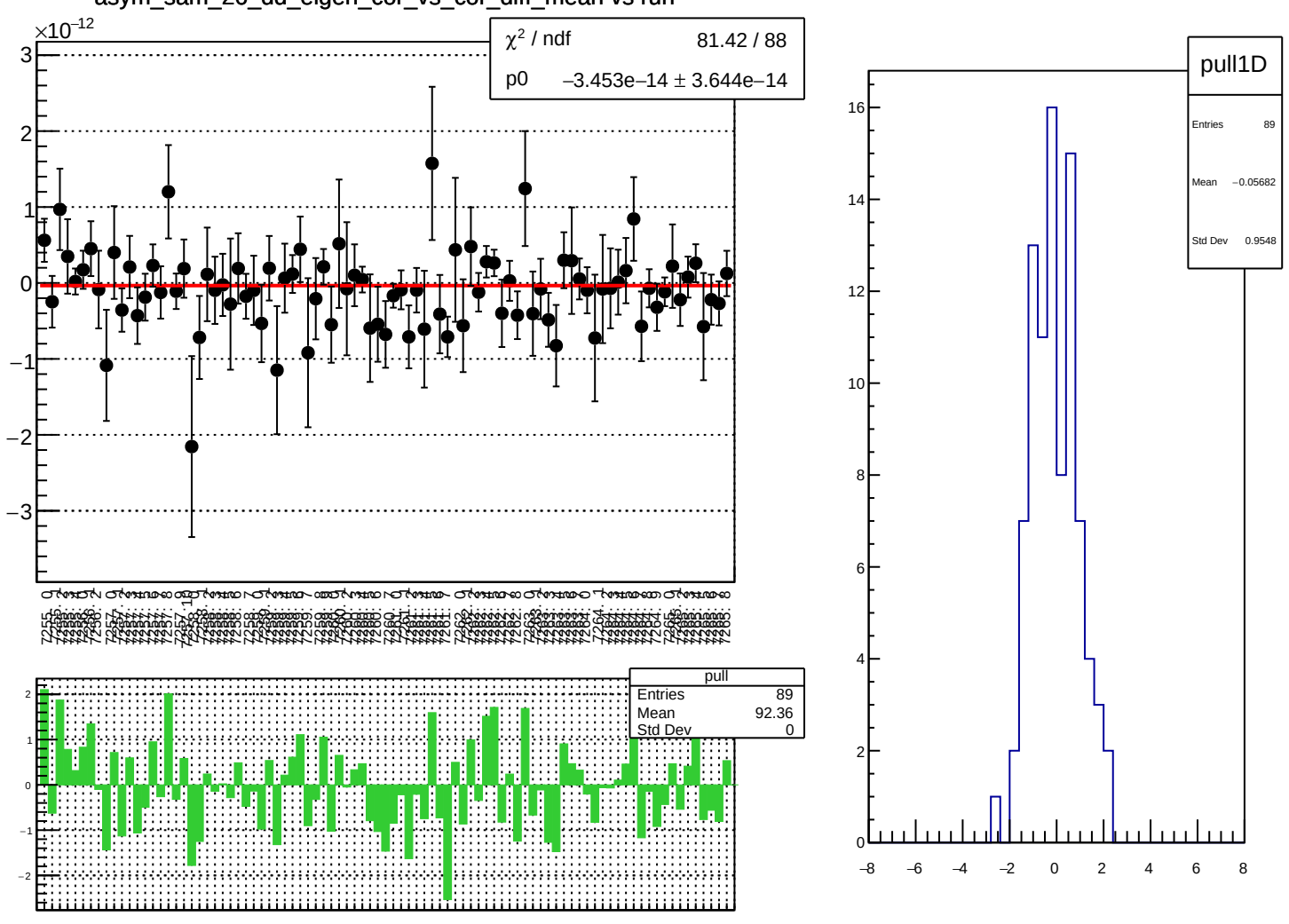

pull1D
Entries 89
Mean 0.00687
Std Dev 1.011

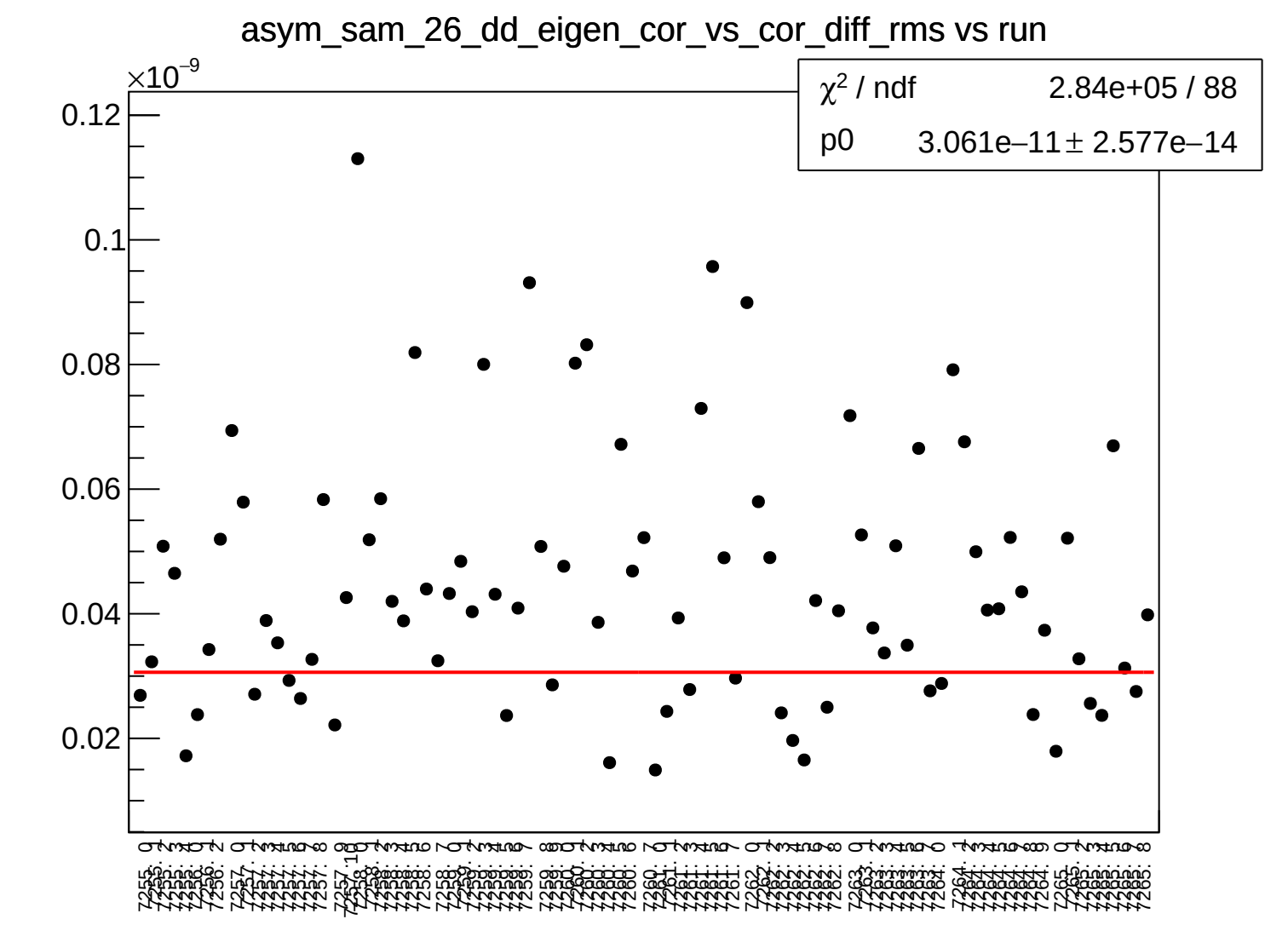

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6689 / 88
p0 69.97 ± 0.05385
85
80
75
70
65
60

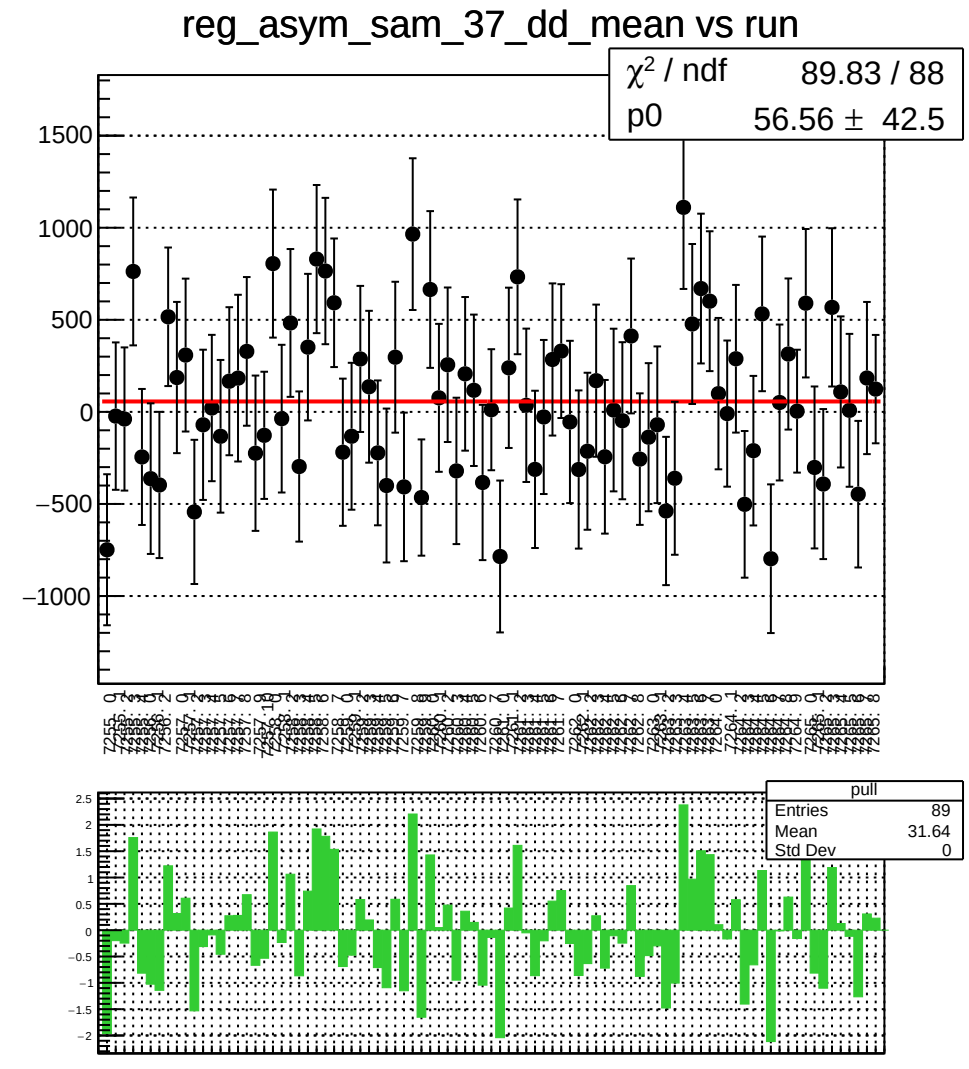

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.9 / 88
p0 −0.02973 ± 0.07616
pull
Entries 89
Mean 510.9
Std Dev 0

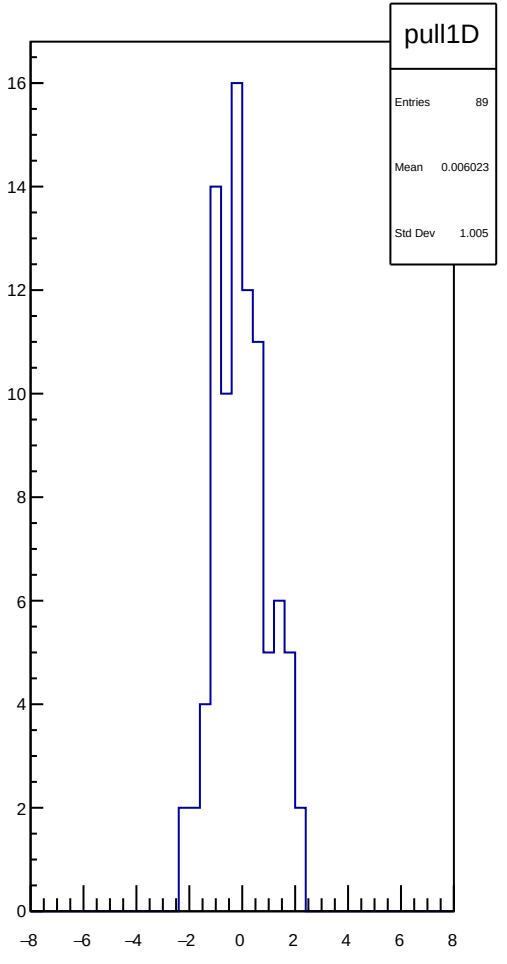

pull1D
Entries 89
Mean 0.00687
Std Dev 1.011

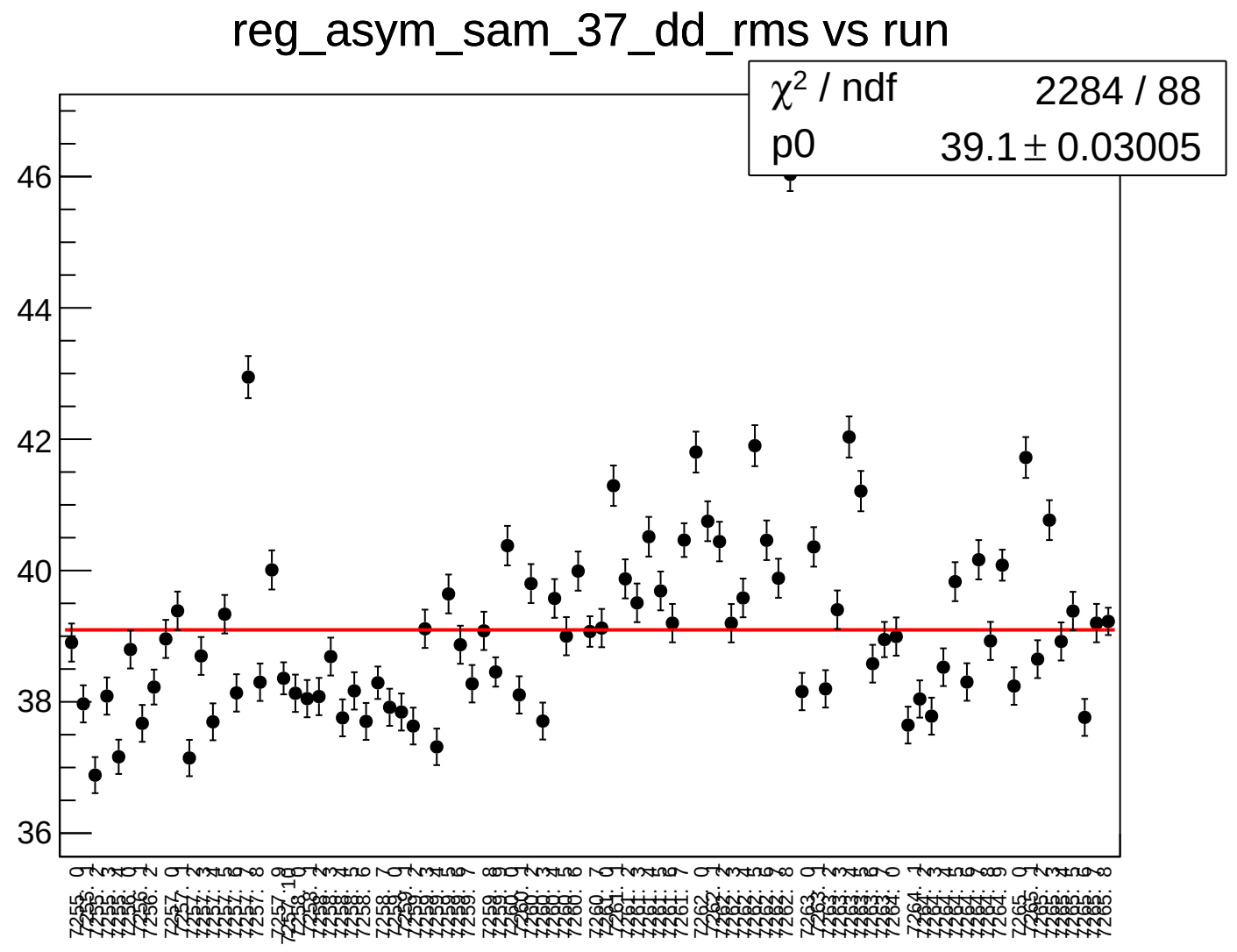

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6689 / 88
p0 69.97 ± 0.05385
85
80
75
70
65
60

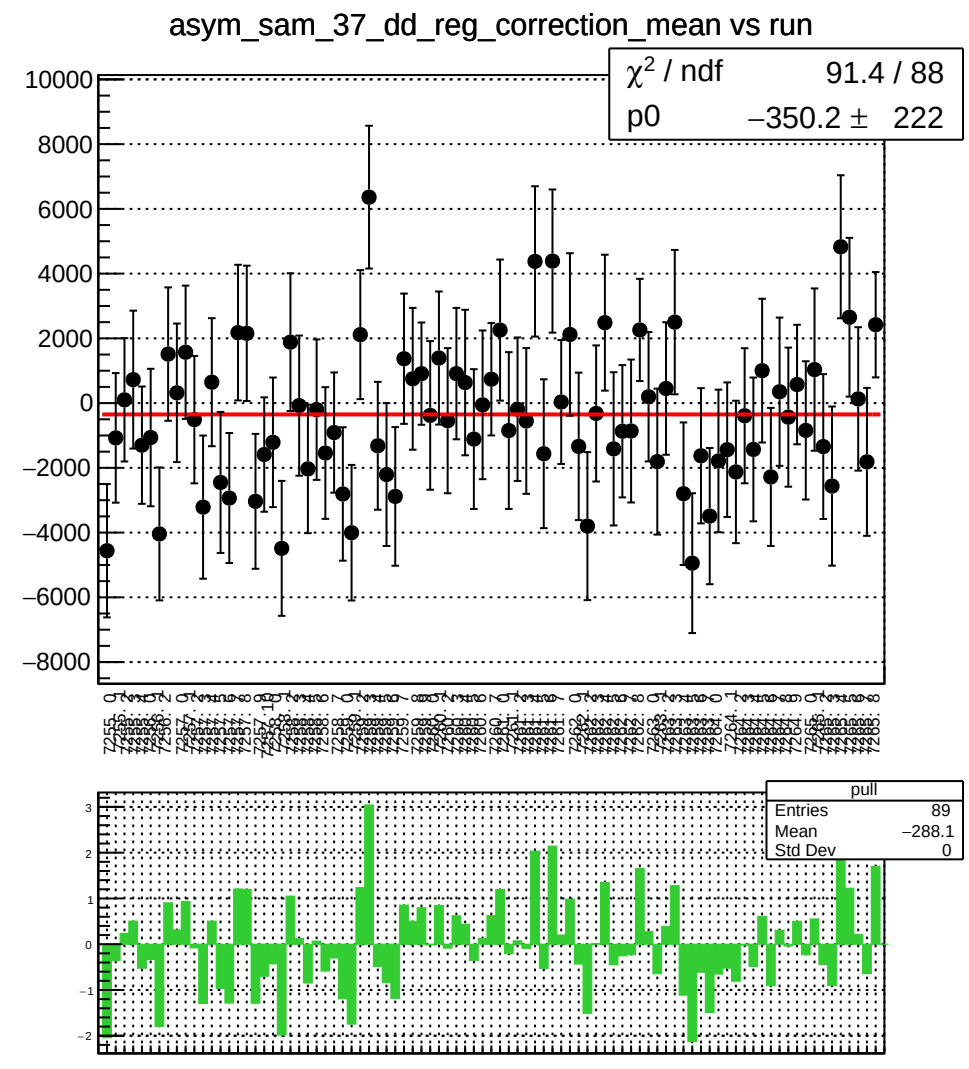

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 81.42 / 88
p0 −3.453e−14 ± 3.644e−14
pull
Entries 89
Mean 92.36
Std Dev 0
pull1D
Entries 89
Mean −0.05682
Std Dev 0.9548

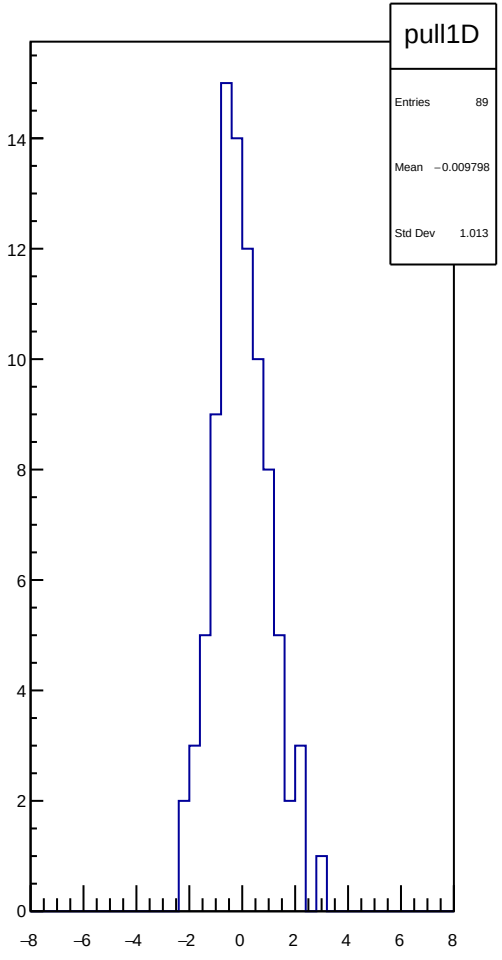

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.84e+05 / 88
p0 3.061e−11 ± 2.577e−14
0.12
0.1
0.08
0.06
0.04
0.02

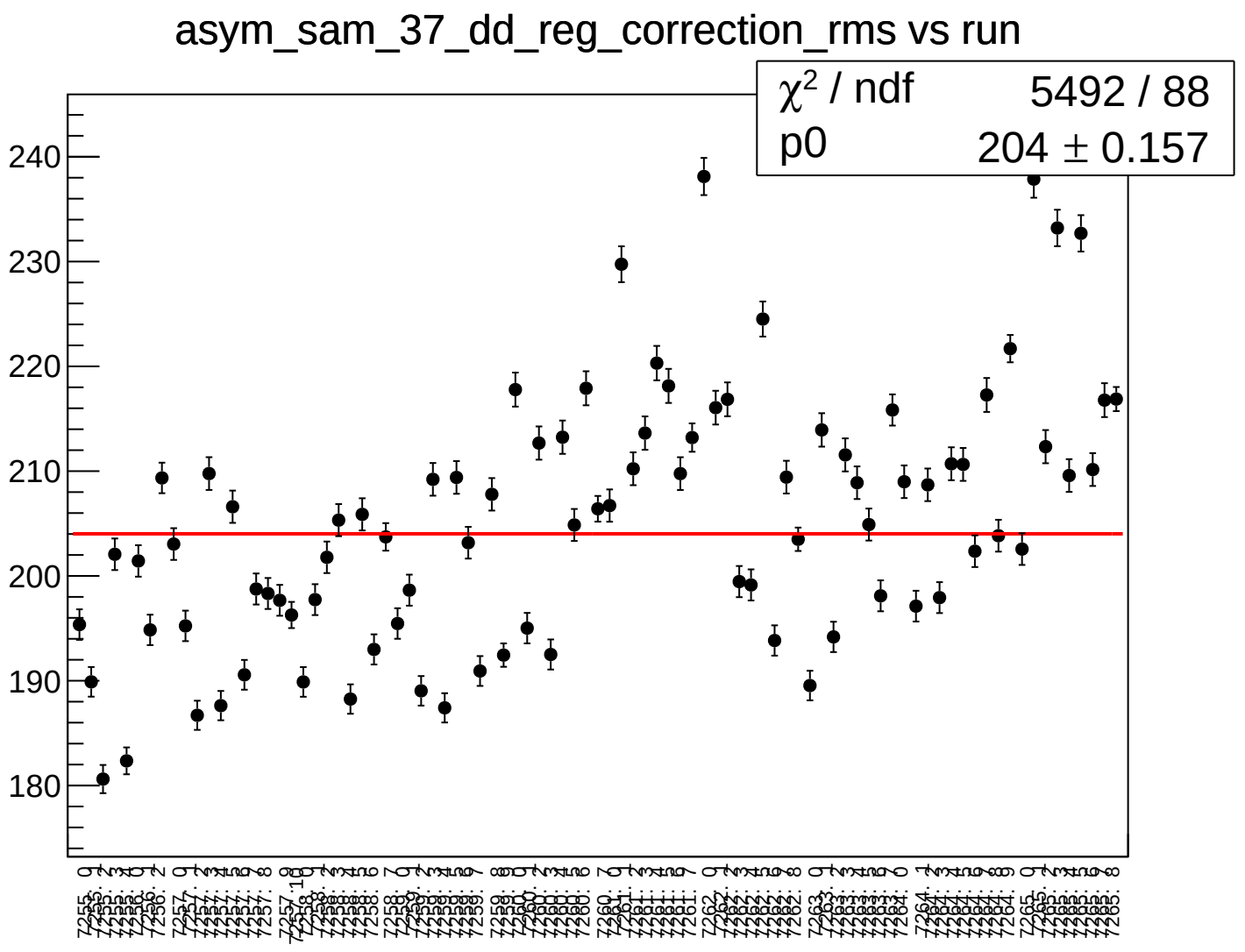

reg_asym_sam_37_dd_mean vs run
χ² / ndf 89.83 / 88
p0 56.56 ± 42.5
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean 31.64
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

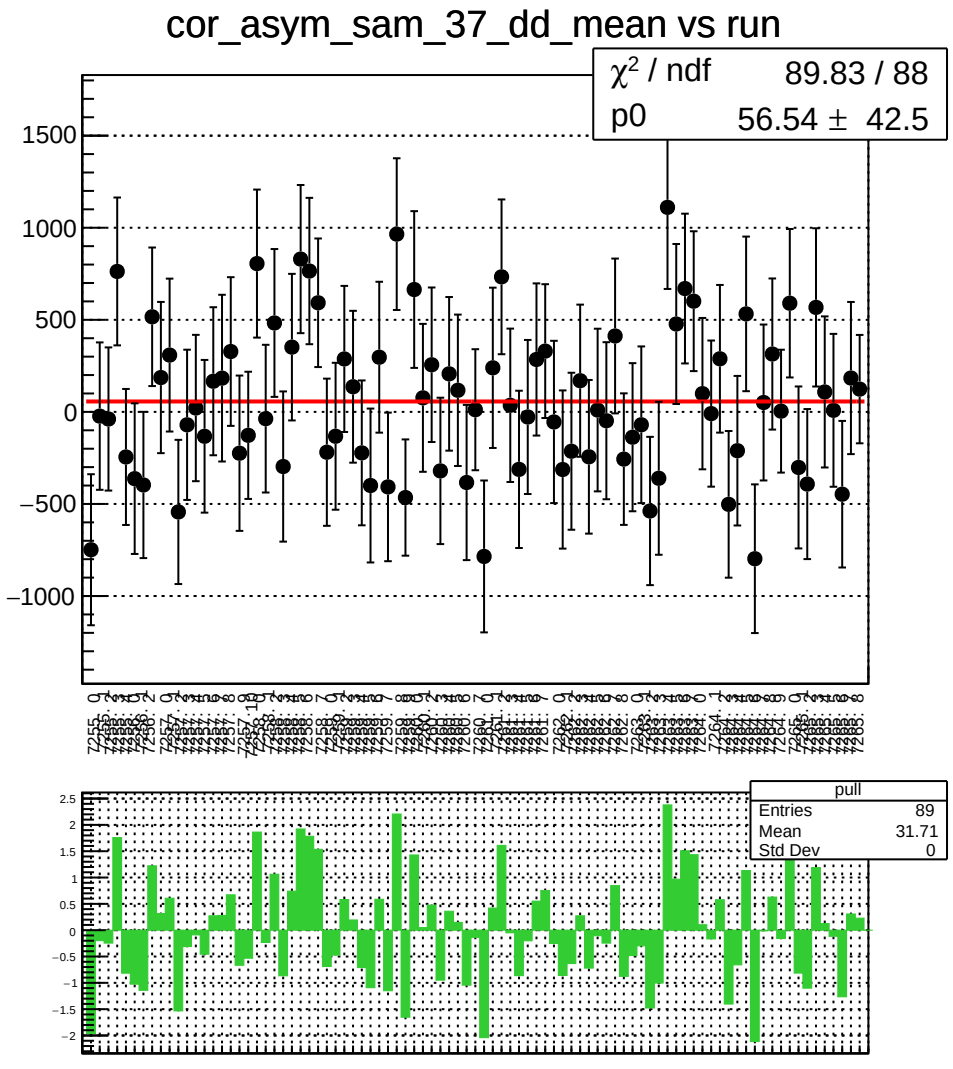

pull1D
Entries 89
Mean 0.006023
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

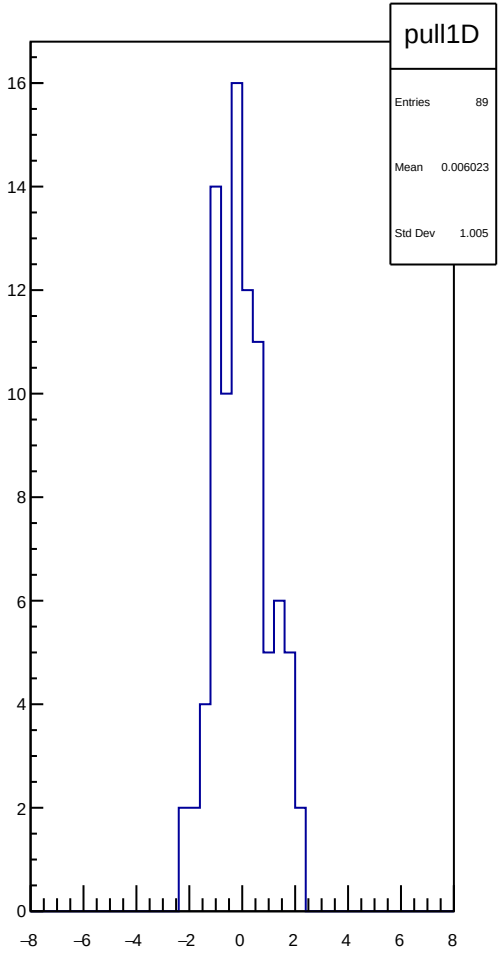

reg_asym_sam_37_dd_rms vs run
χ² / ndf 2284 / 88
p0 39.1 ± 0.03005
46
44
42
40
38
36

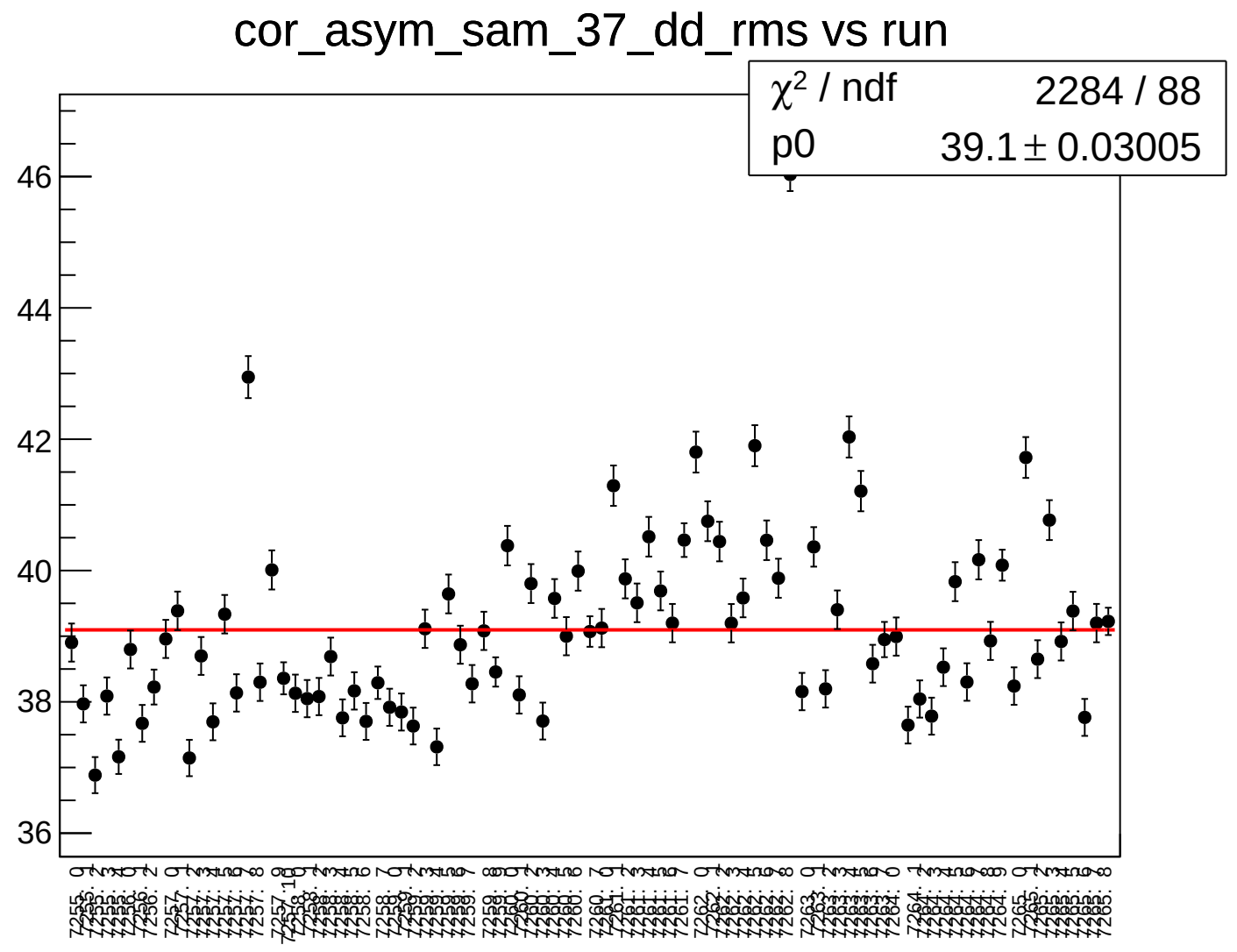

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 91.4 / 88
p0 −350.2 ± 222
pull
Entries 89
Mean −288.1
Std Dev 0

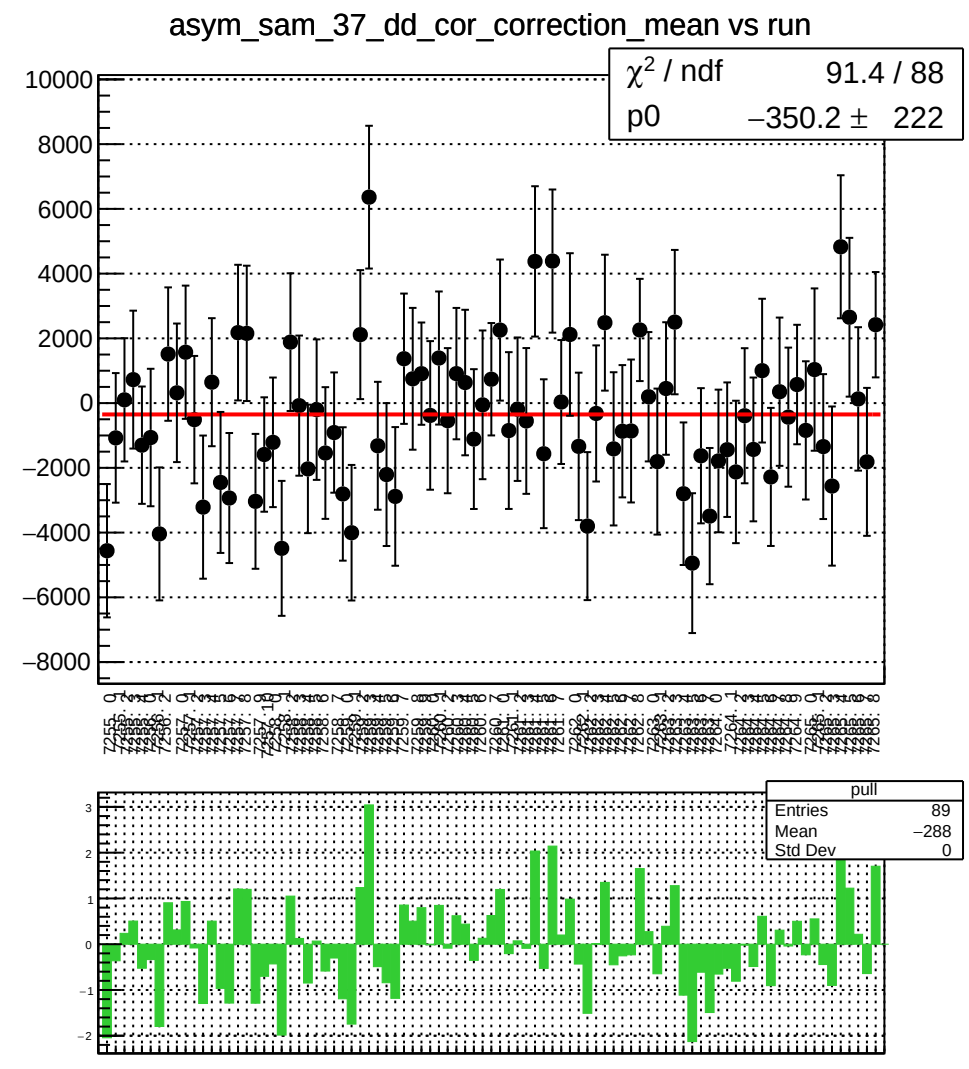

pull1D
Entries 89
Mean −0.009798
Std Dev 1.013

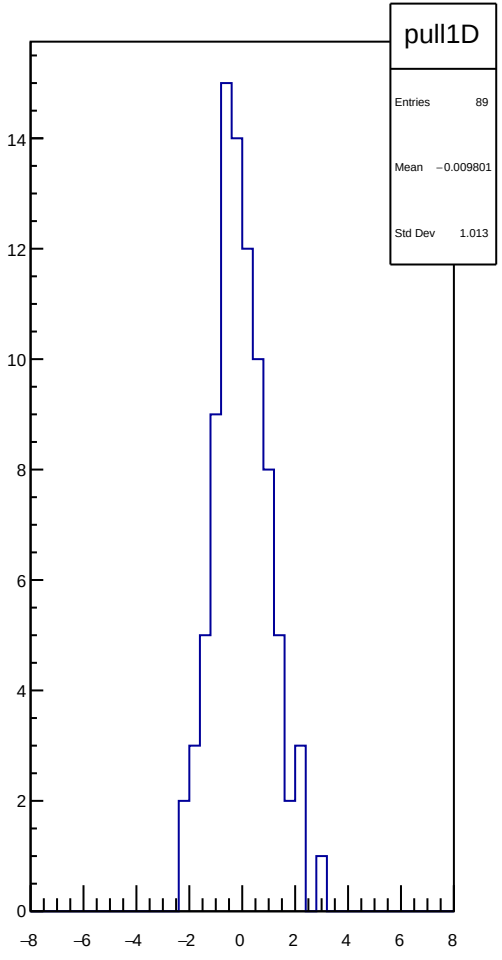

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 5492 / 88
p0 204 ± 0.157
240
230
220
210
200
190
180

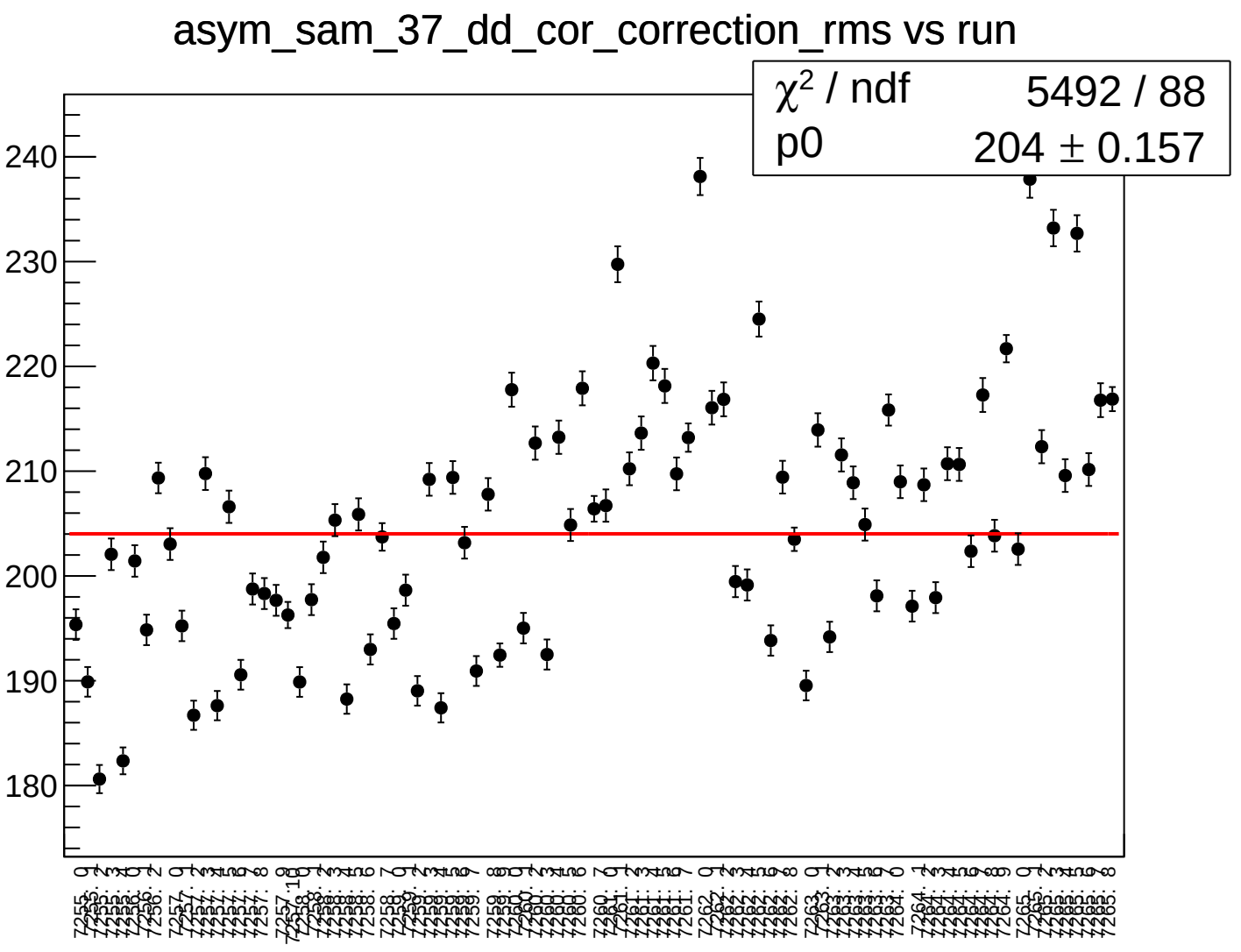

cor_asym_sam_37_dd_mean vs run
χ² / ndf 89.83 / 88
p0 56.54 ± 42.5
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean 31.71
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

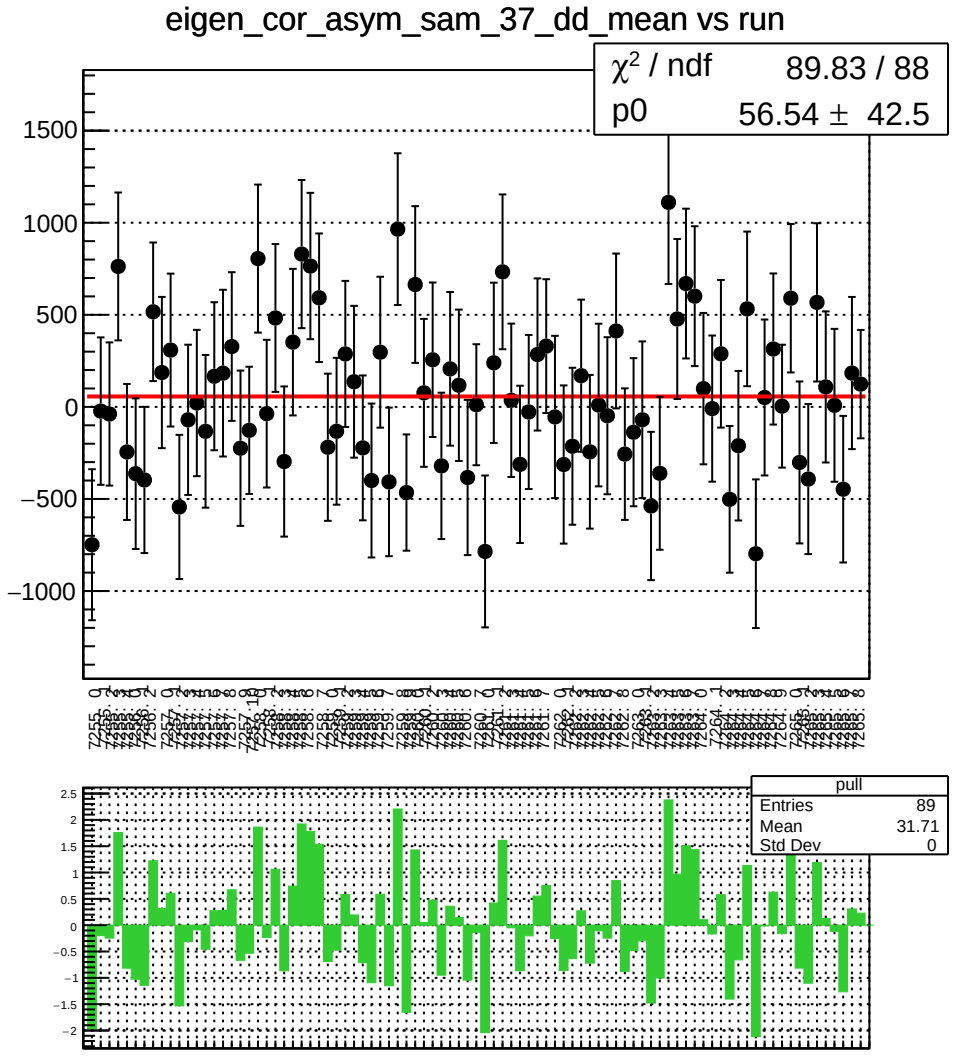

pull1D
Entries 89
Mean 0.006023
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

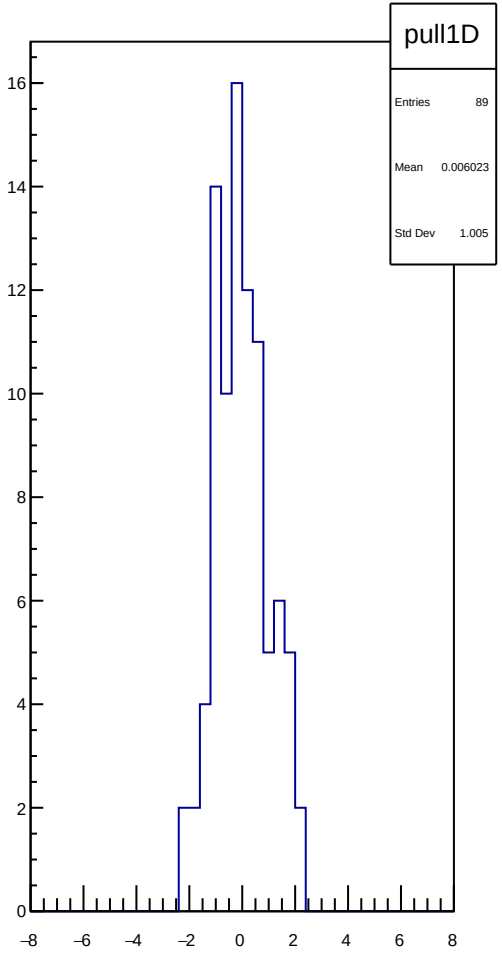

cor_asym_sam_37_dd_rms vs run
χ² / ndf 2284 / 88
p0 39.1 ± 0.03005
46
44
42
40
38
36

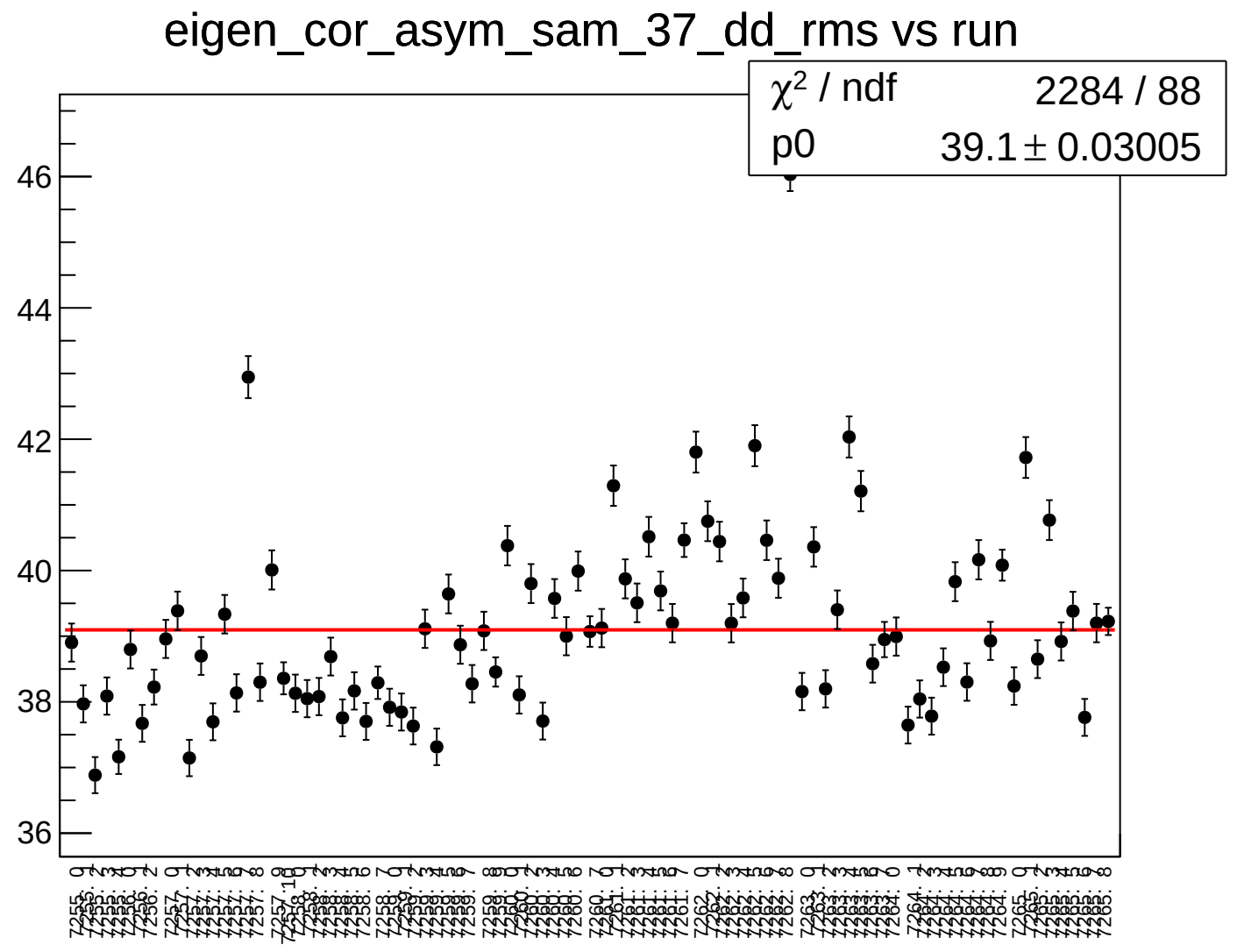

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 91.4 / 88
p0 −350.2 ± 222
pull
Entries 89
Mean −288
Std Dev 0

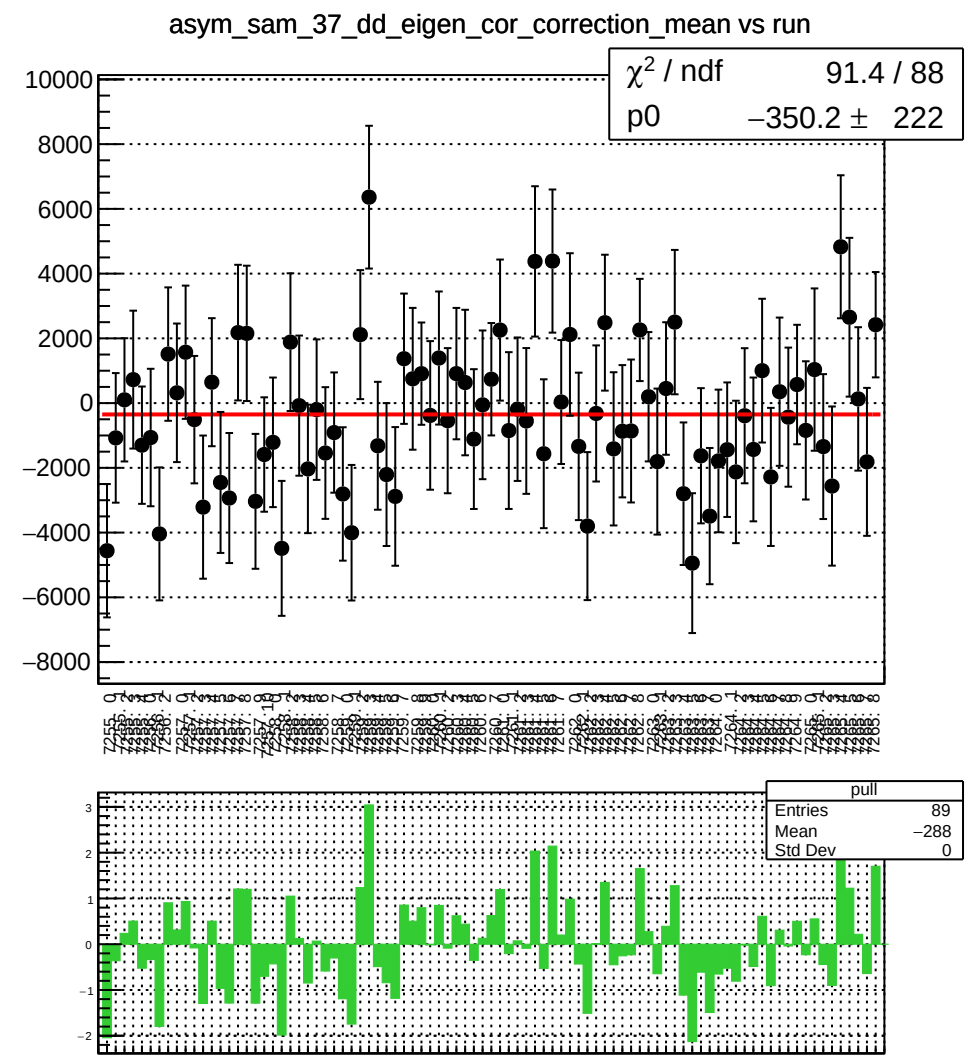

pull1D
Entries 89
Mean −0.009801
Std Dev 1.013

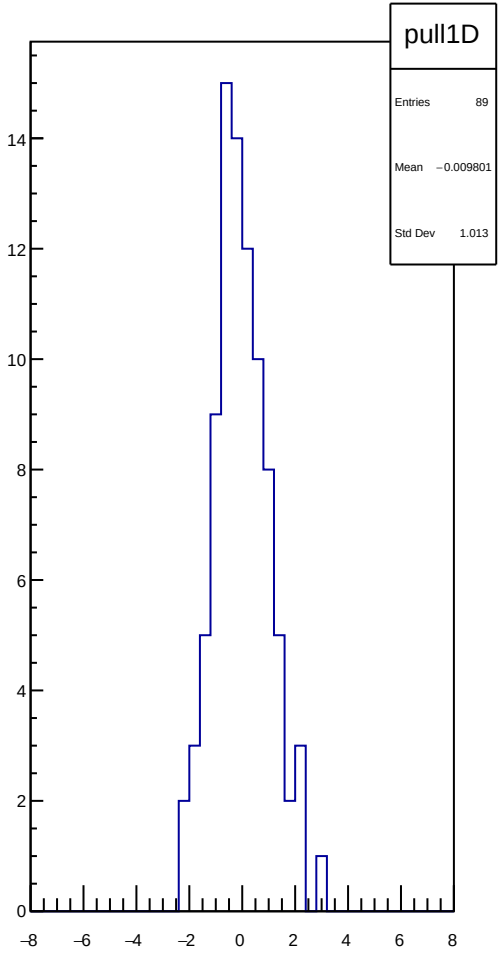

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 5492 / 88
p0 204 ± 0.157
240
230
220
210
200
190
180

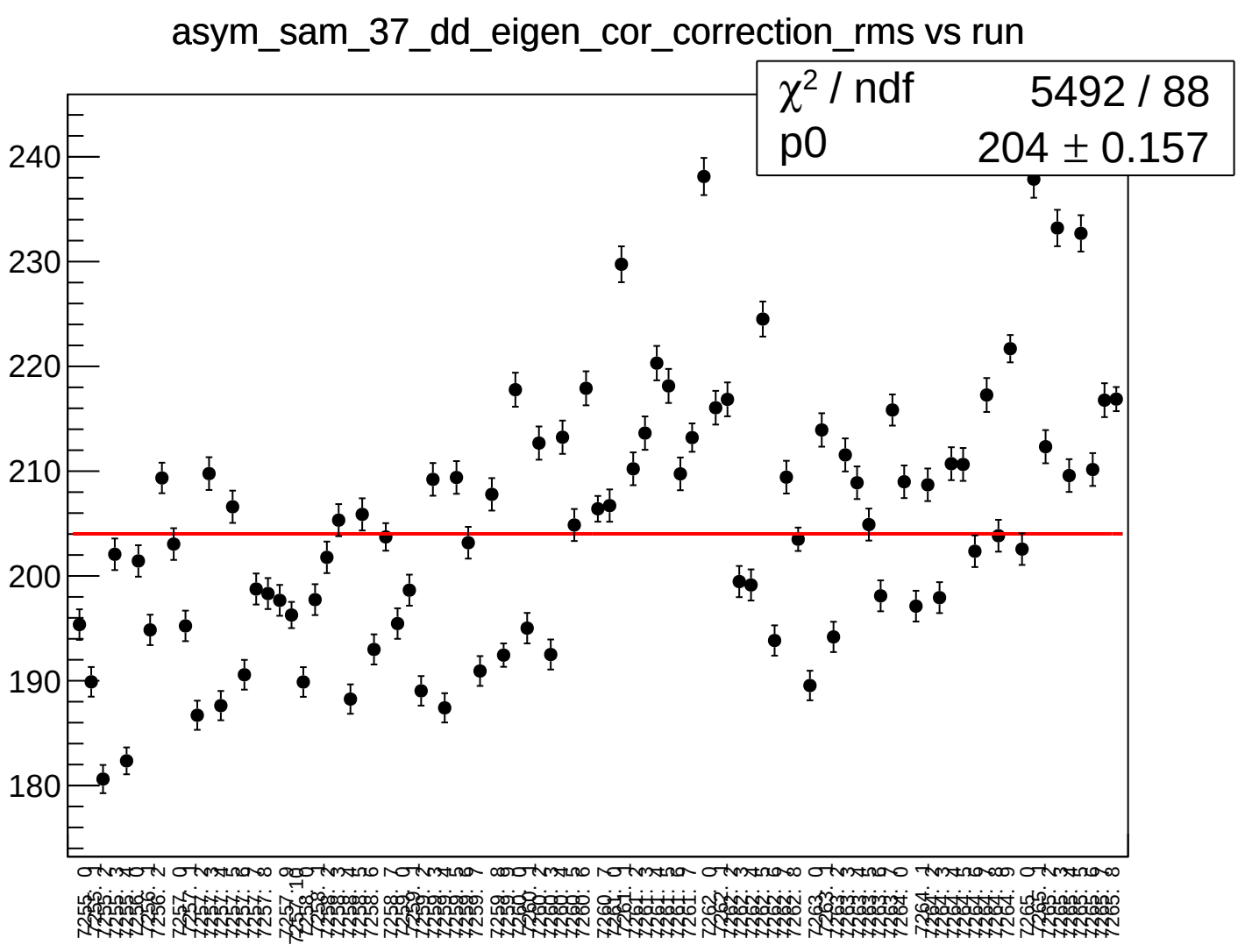

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 89.83 / 88
p0 56.54 ± 42.5
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean 31.71
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

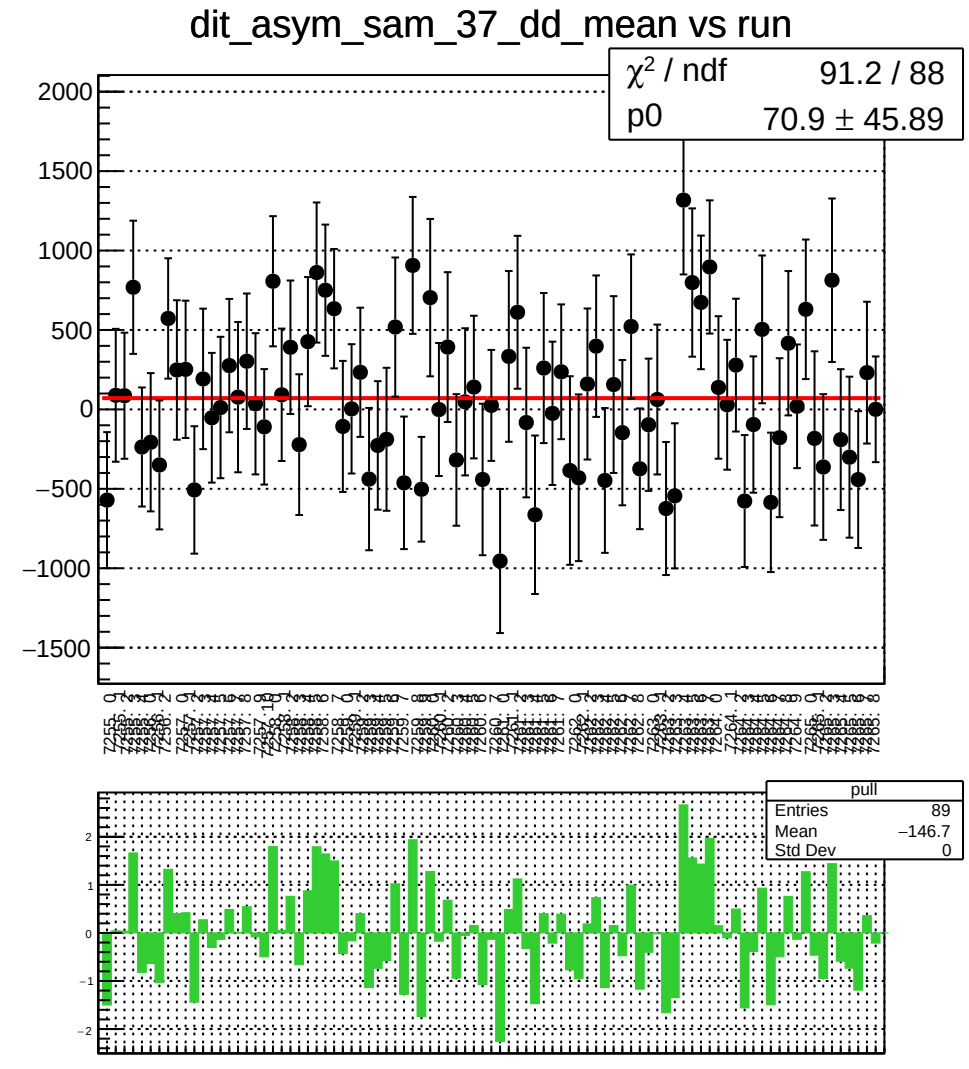

pull1D
Entries 89
Mean 0.006023
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

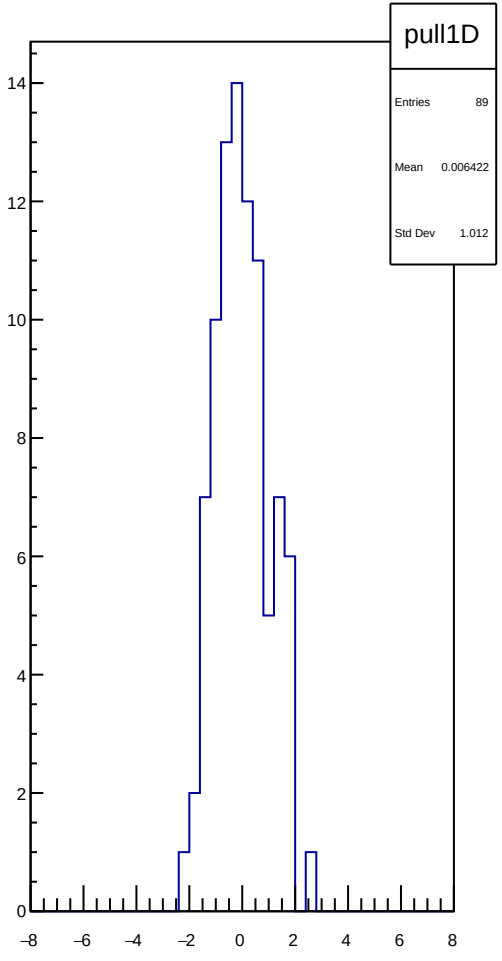

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 2284 / 88
p0 39.1 ± 0.03005
46
44
42
40
38
36

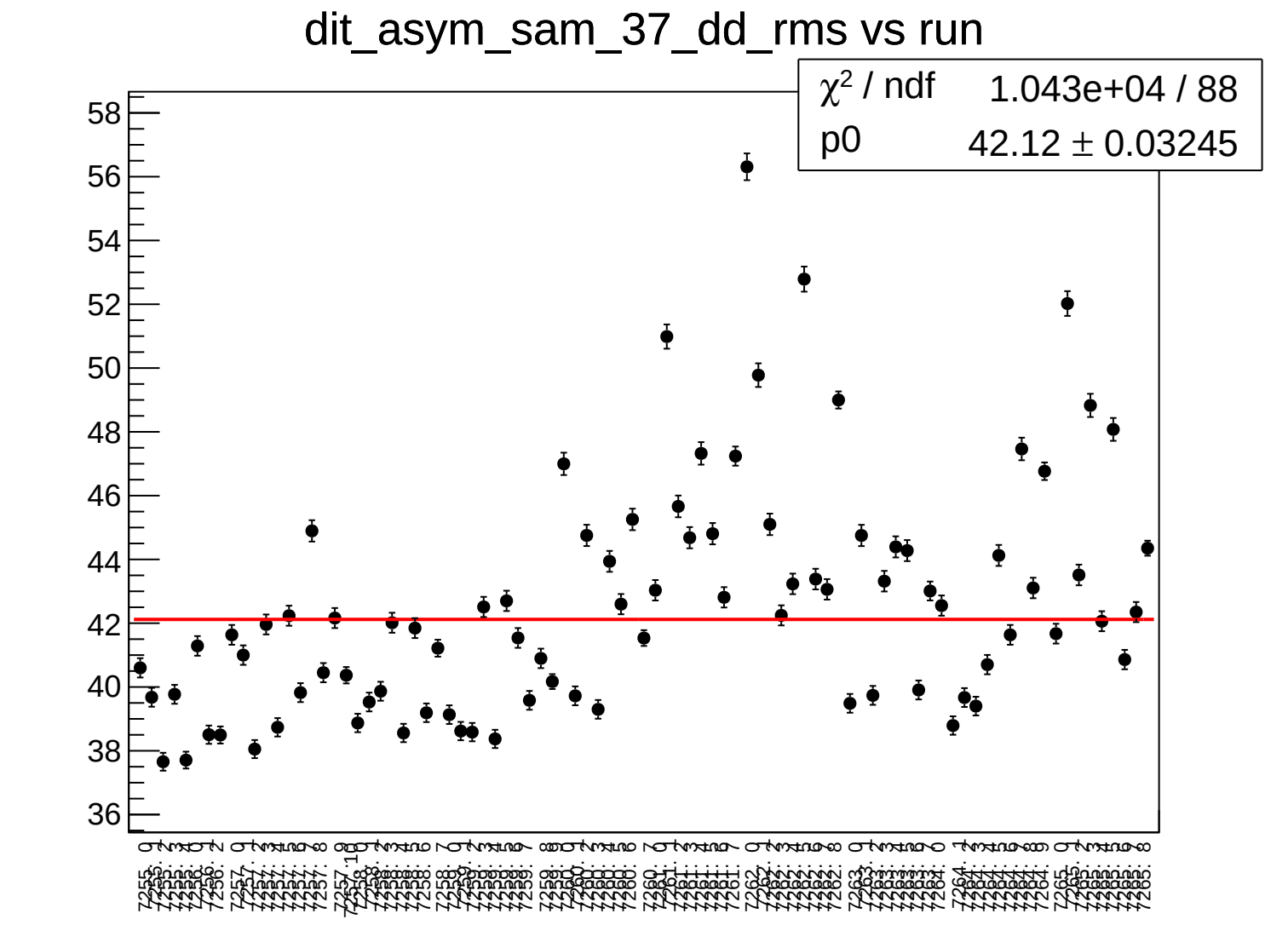

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.4 / 88
p0 −350.2 ± 222
pull
Entries 89
Mean −288
Std Dev 0

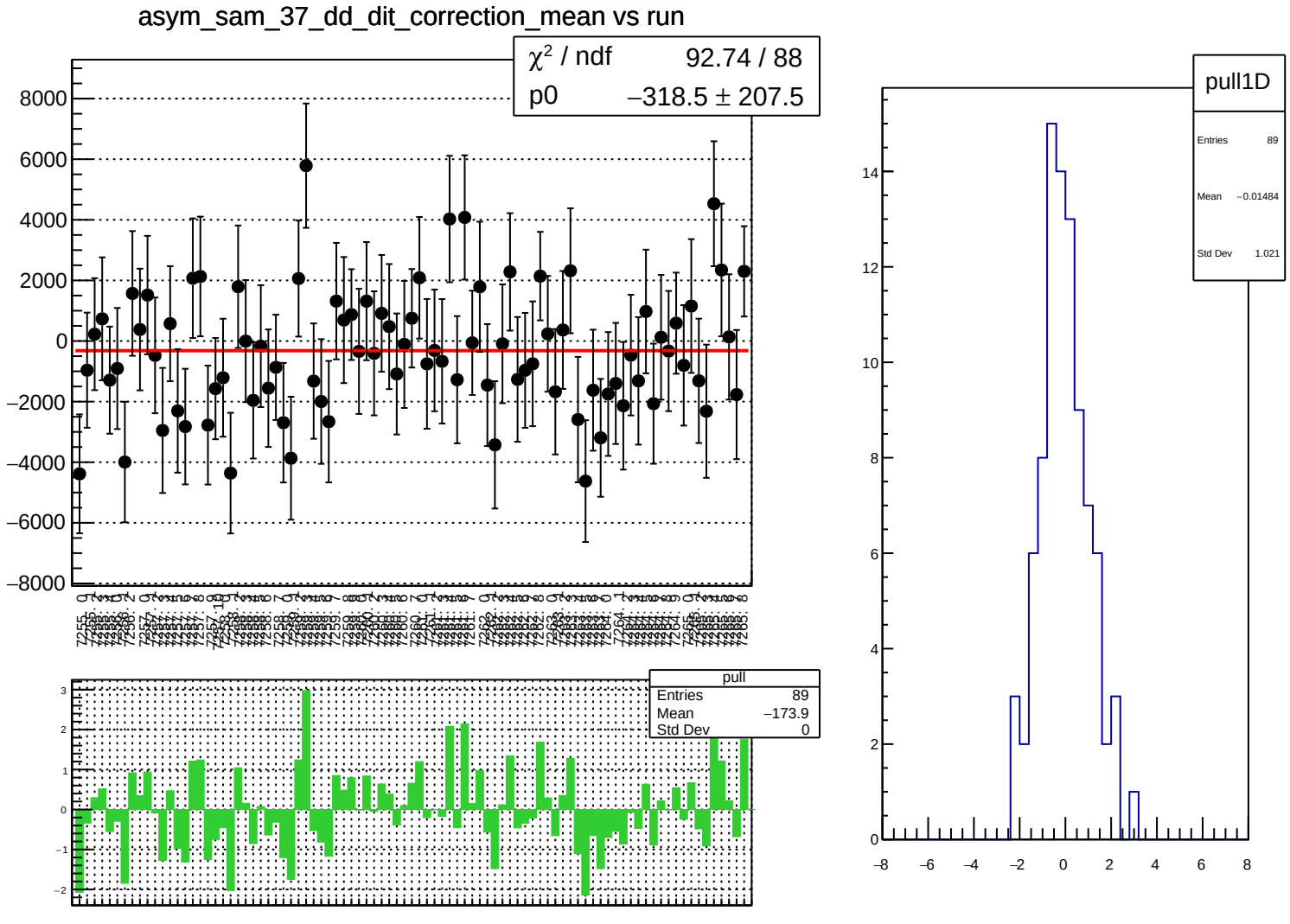

pull1D
Entries 89
Mean −0.009801
Std Dev 1.013

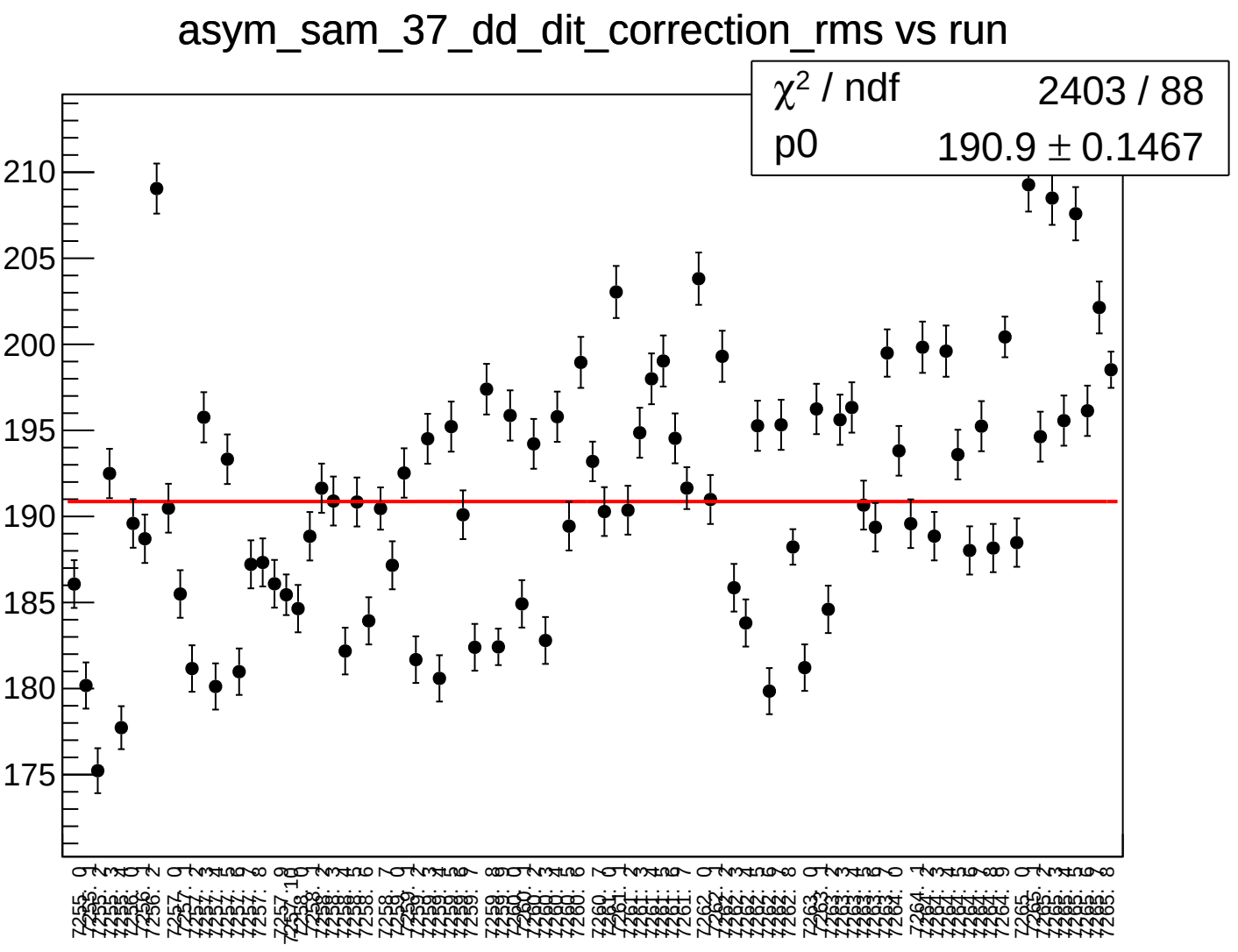

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 5492 / 88
p0 204 ± 0.157
240
230
220
210
200
190
180

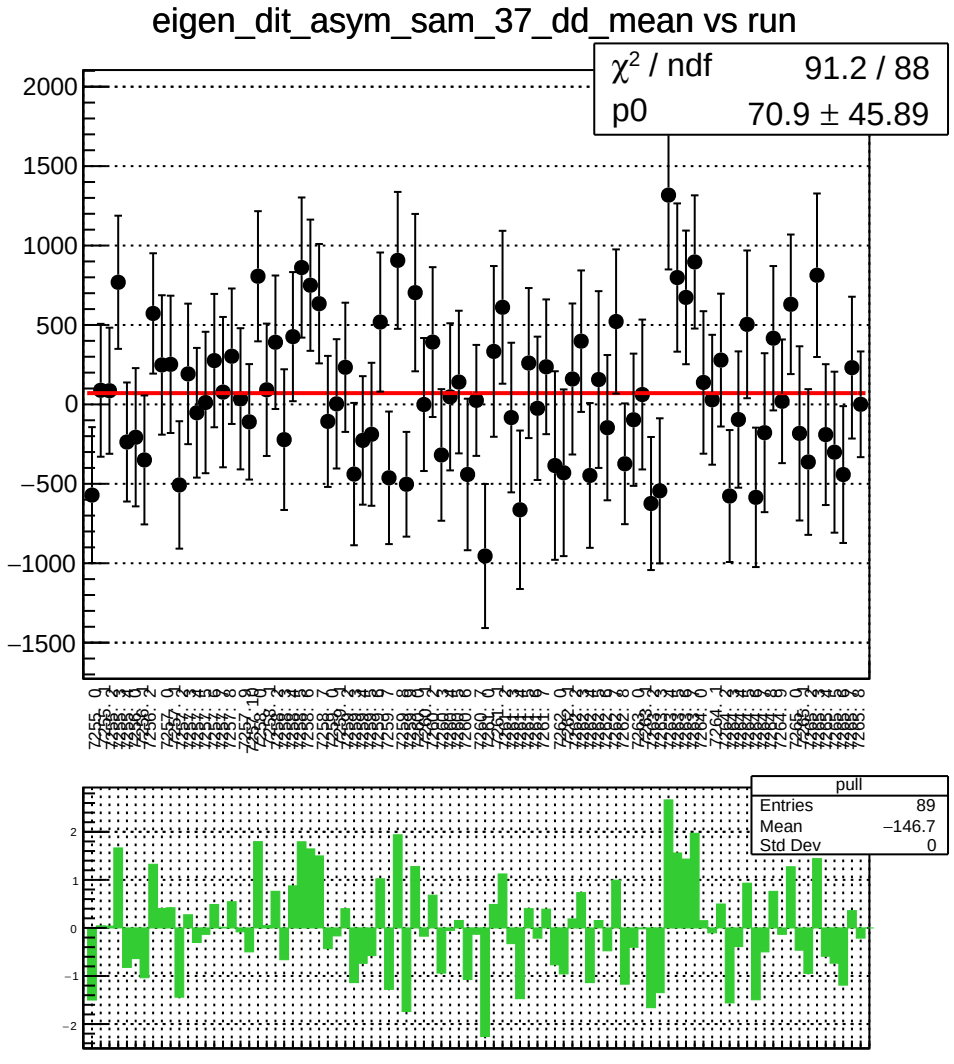

dit_asym_sam_37_dd_mean vs run
χ² / ndf 91.2 / 88
p0 70.9 ± 45.89
pull
Entries 89
Mean −146.7
Std Dev 0

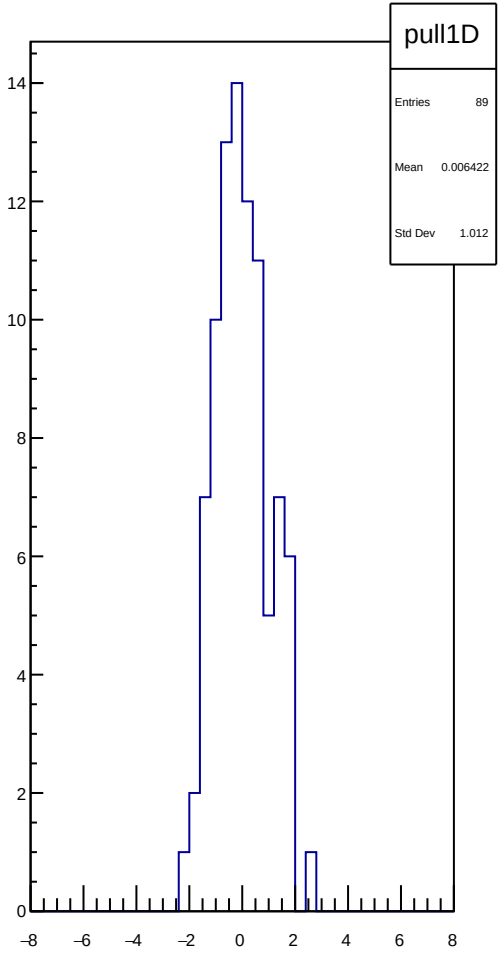

pull1D
Entries 89
Mean 0.006422
Std Dev 1.012

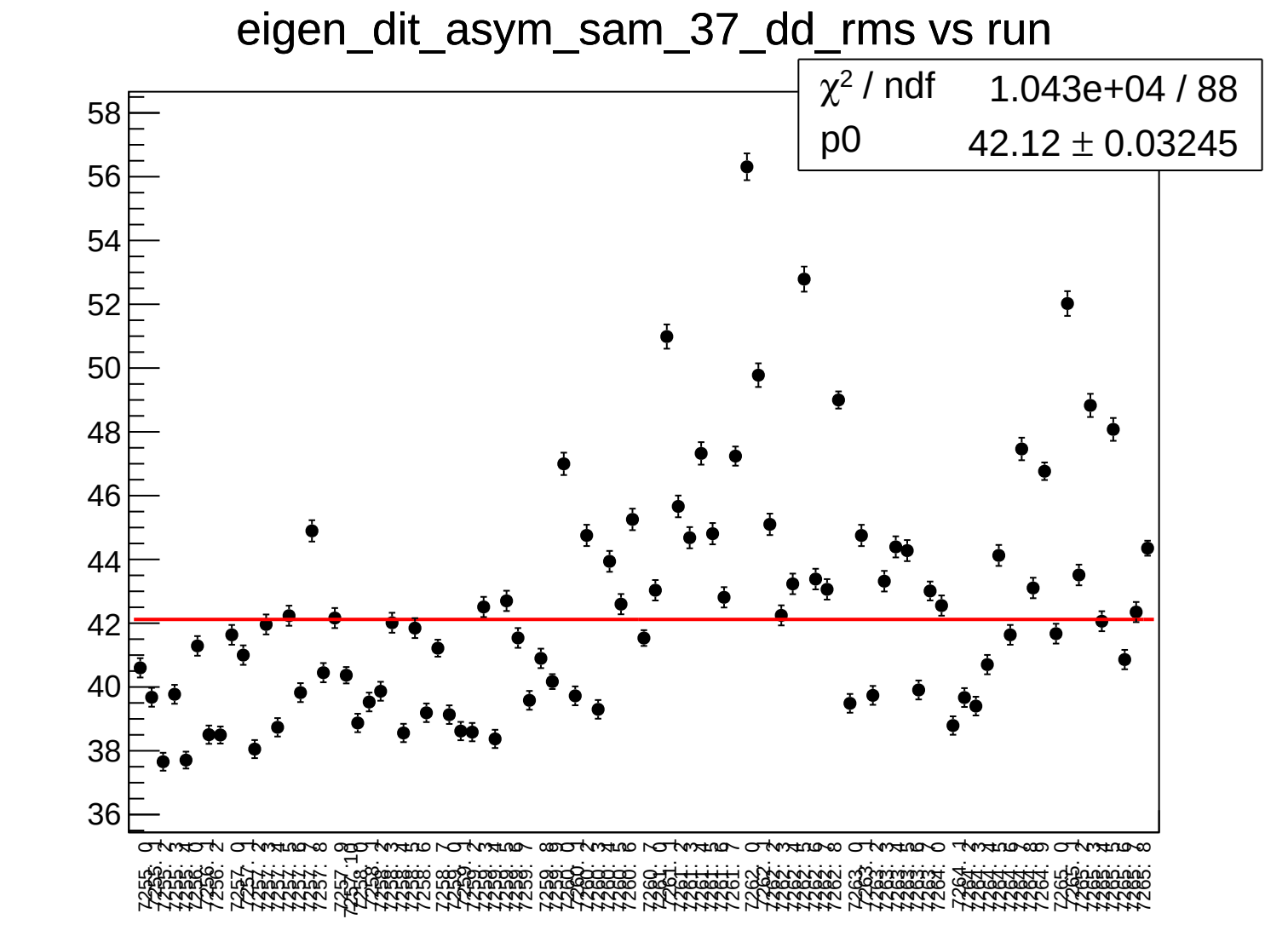

dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.043e+04 / 88
p0 42.12 ± 0.03245
58
56
54
52
50
48
46
44
42
40
38
36

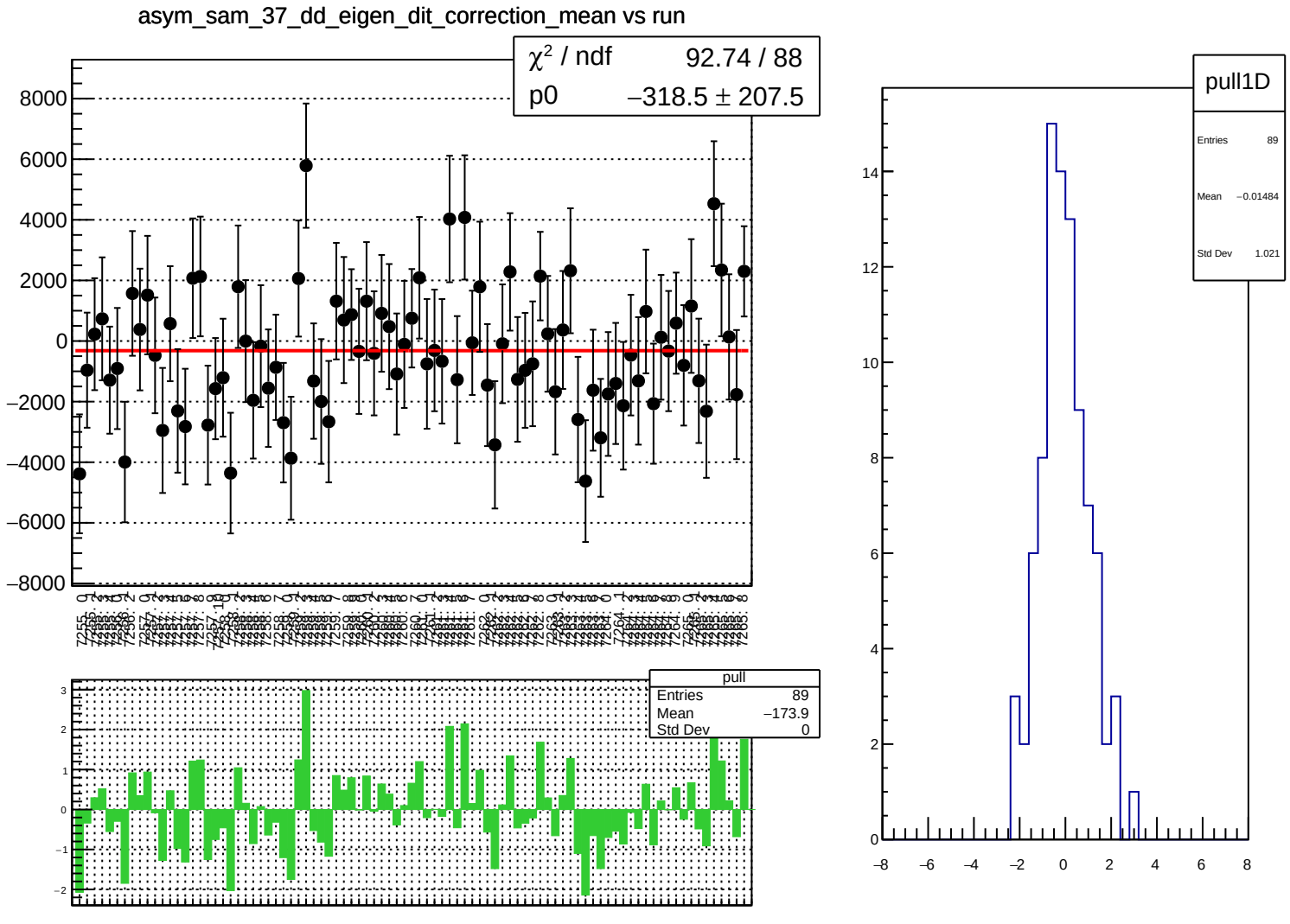

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 92.74 / 88
p0 −318.5 ± 207.5
pull
Entries 89
Mean −173.9
Std Dev 0
pull1D
Entries 89
Mean −0.01484
Std Dev 1.021

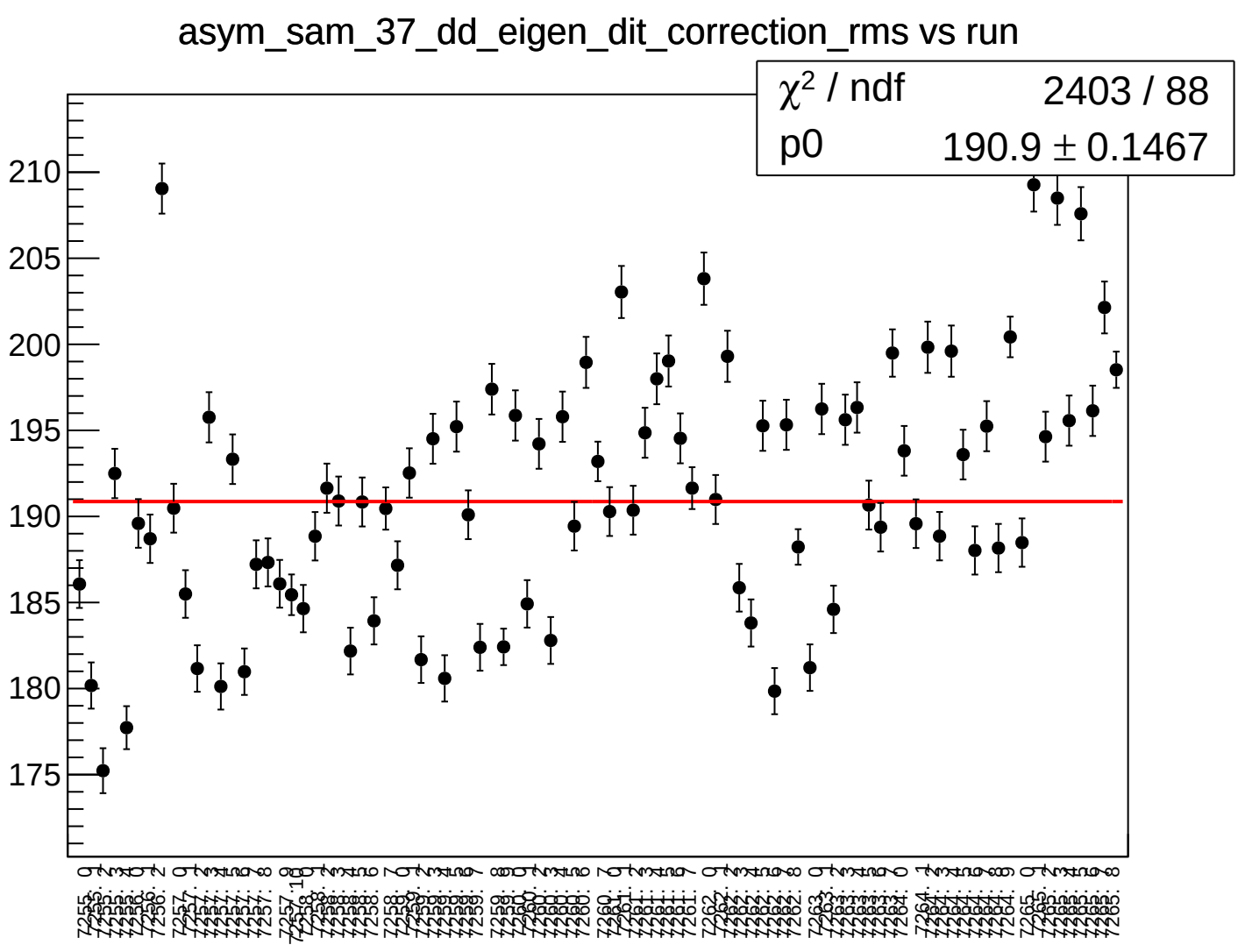

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 2403 / 88
p0 190.9 ± 0.1467
210
205
200
195
190
185
180
175

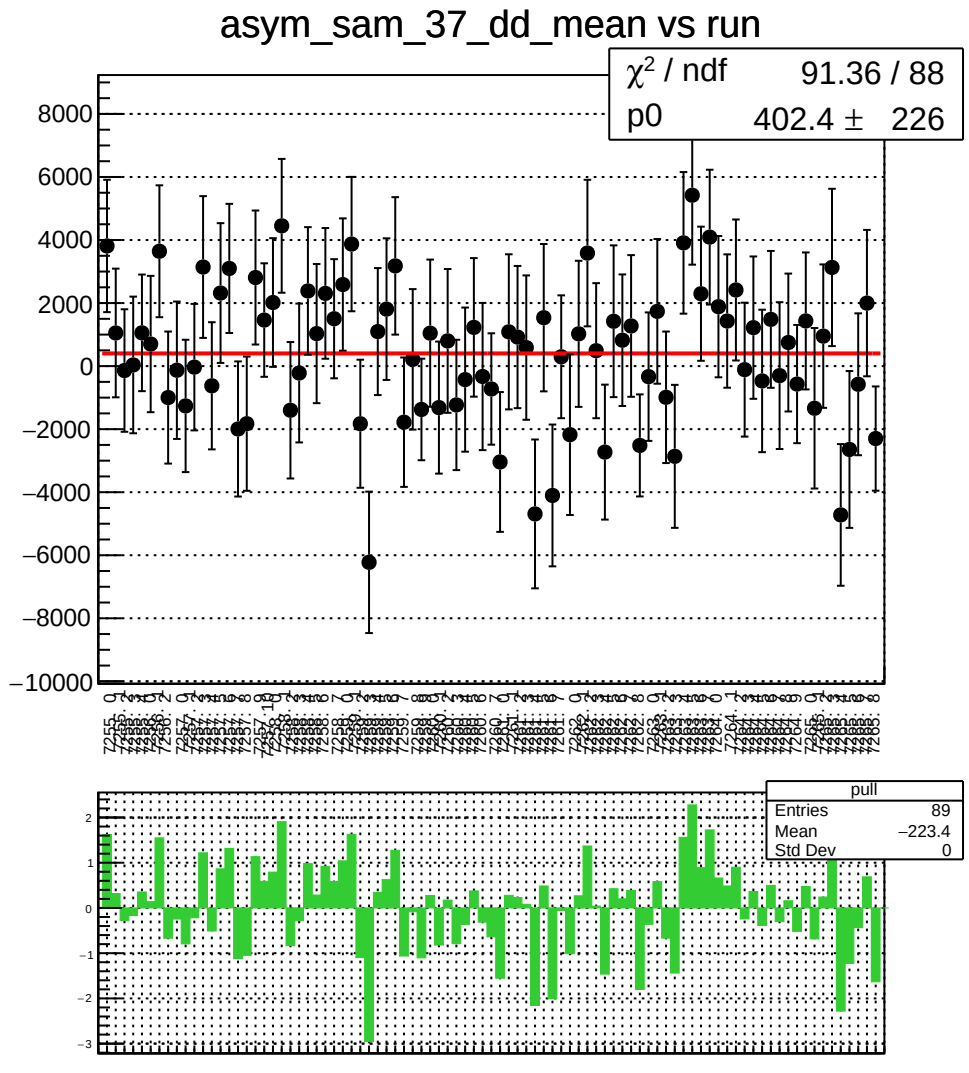

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 91.2 / 88
p0 70.9 ± 45.89
pull
Entries 89
Mean −146.7
Std Dev 0

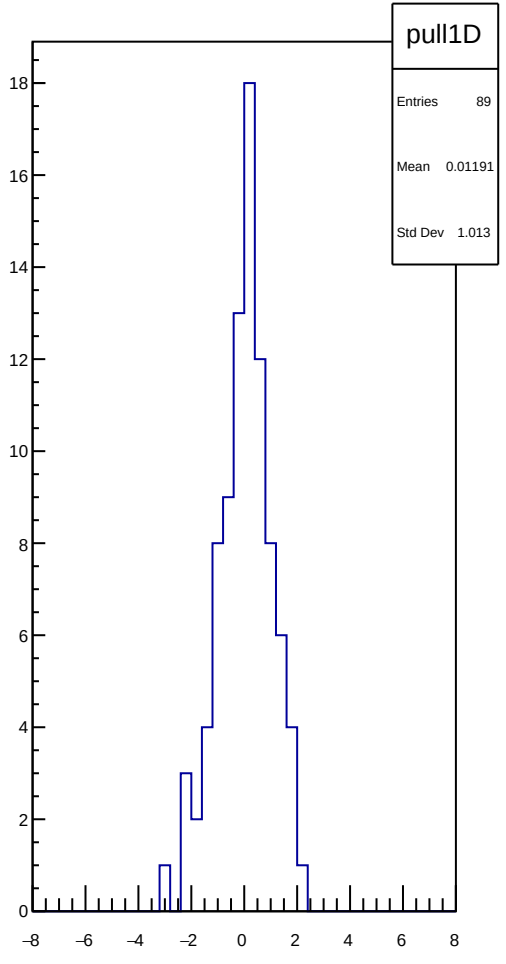

pull1D
Entries 89
Mean 0.006422
Std Dev 1.012

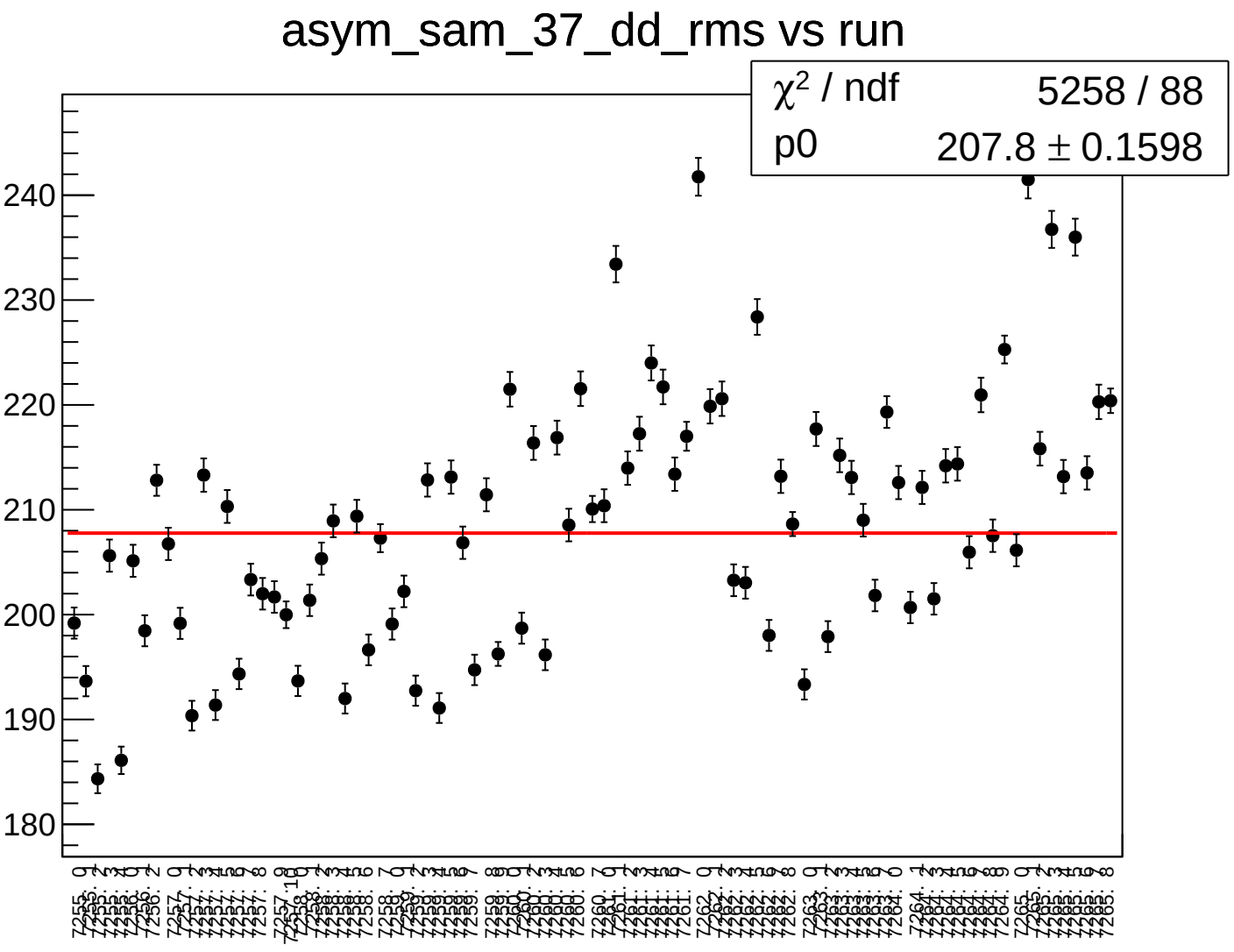

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.043e+04 / 88
p0 42.12 ± 0.03245
58
56
54
52
50
48
46
44
42
40
38
36

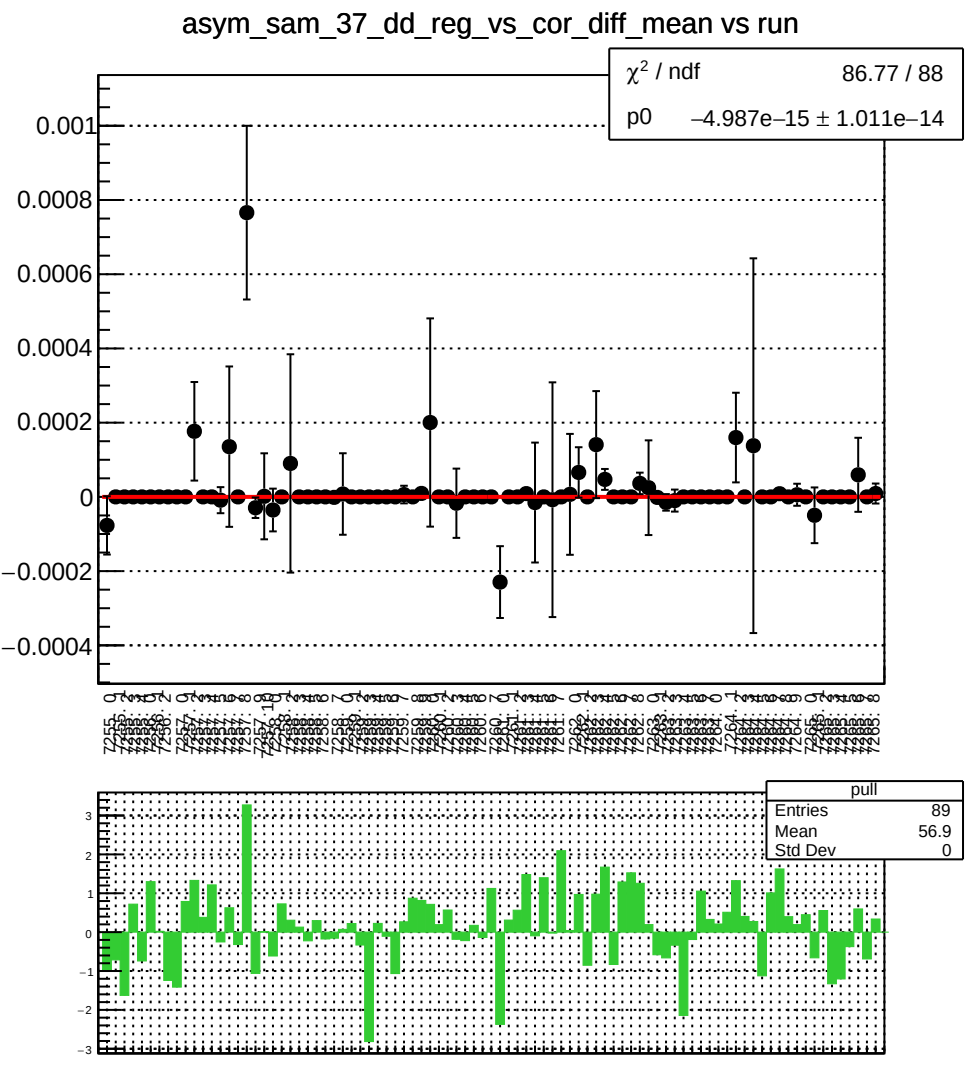

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.74 / 88
p0 −318.5 ± 207.5
pull
Entries 89
Mean −173.9
Std Dev 0
pull1D
Entries 89
Mean −0.01484
Std Dev 1.021

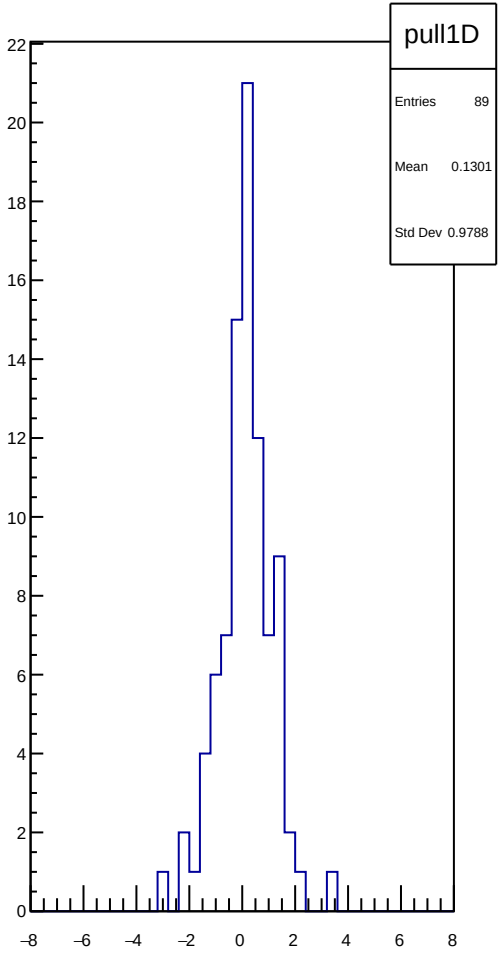

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2403 / 88
p0 190.9 ± 0.1467
210
205
200
195
190
185
180
175

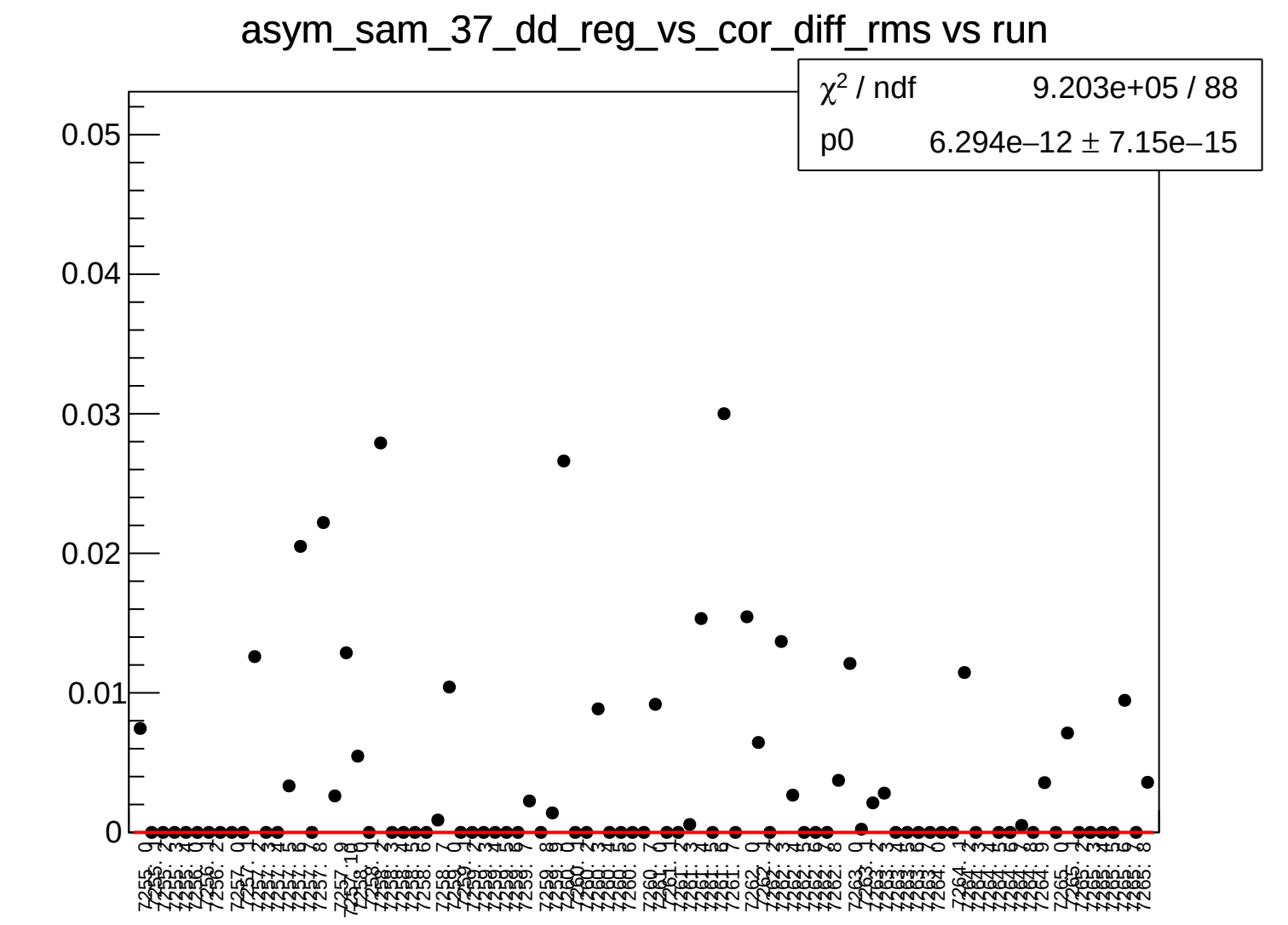

asym_sam_37_dd_mean vs run
χ² / ndf 91.36 / 88
p0 402.4 ± 226
pull
Entries 89
Mean −223.4
Std Dev 0

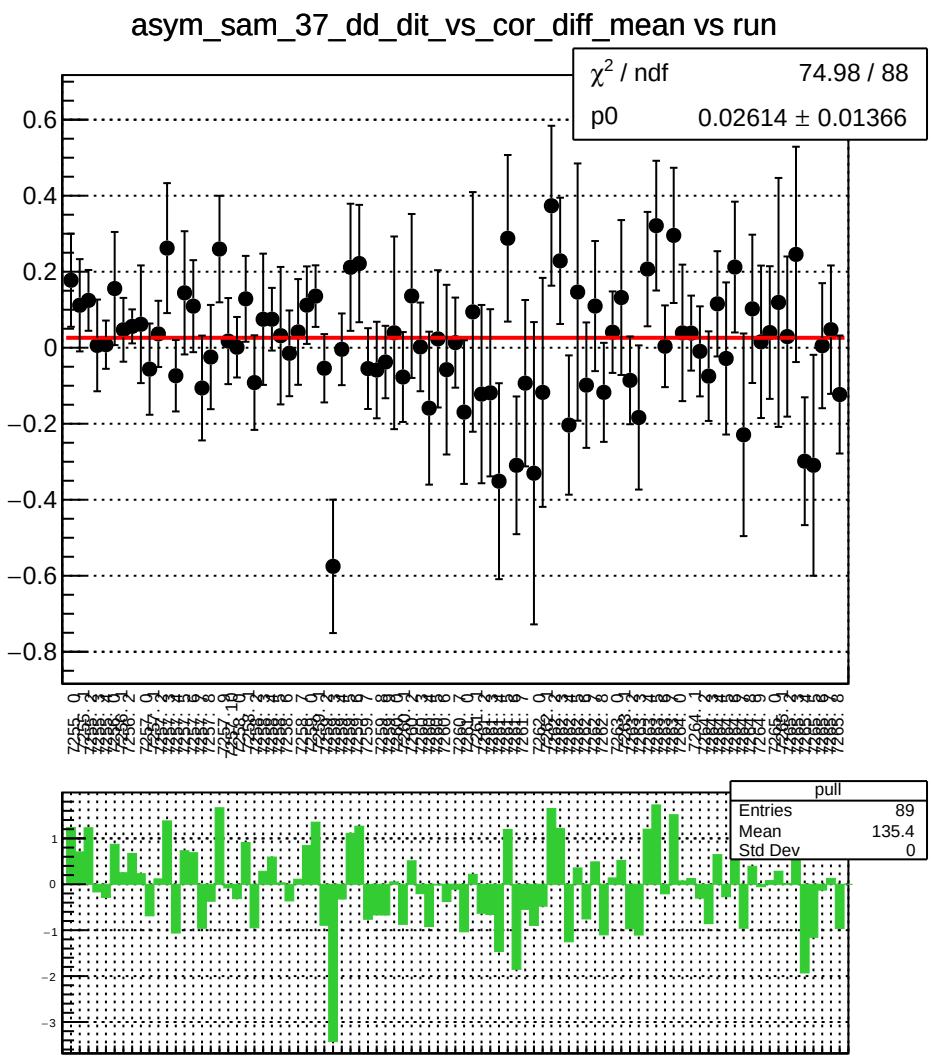

pull1D
Entries 89
Mean 0.01191
Std Dev 1.013

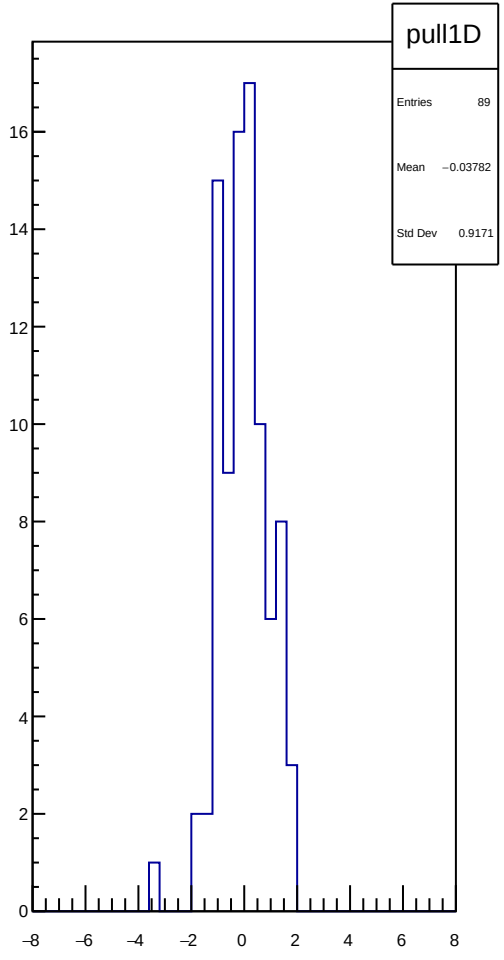

asym_sam_37_dd_rms vs run
χ² / ndf 5258 / 88
p0 207.8 ± 0.1598
240
230
220
210
200
190
180

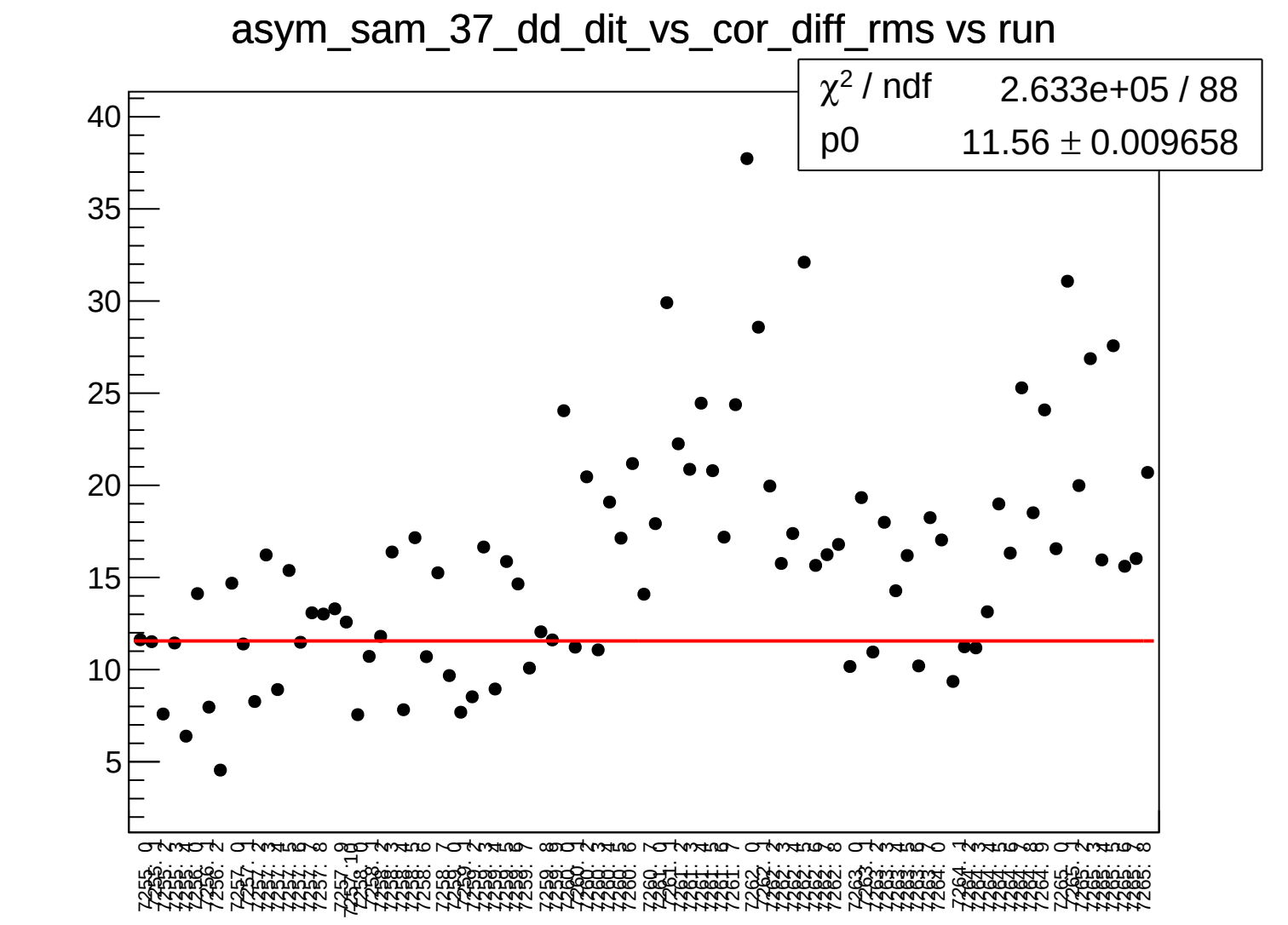

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.77 / 88
p0 −4.987e−15 ± 1.011e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 89
Mean 56.9
Std Dev 0
3
2
1
0
−1
−2
−3

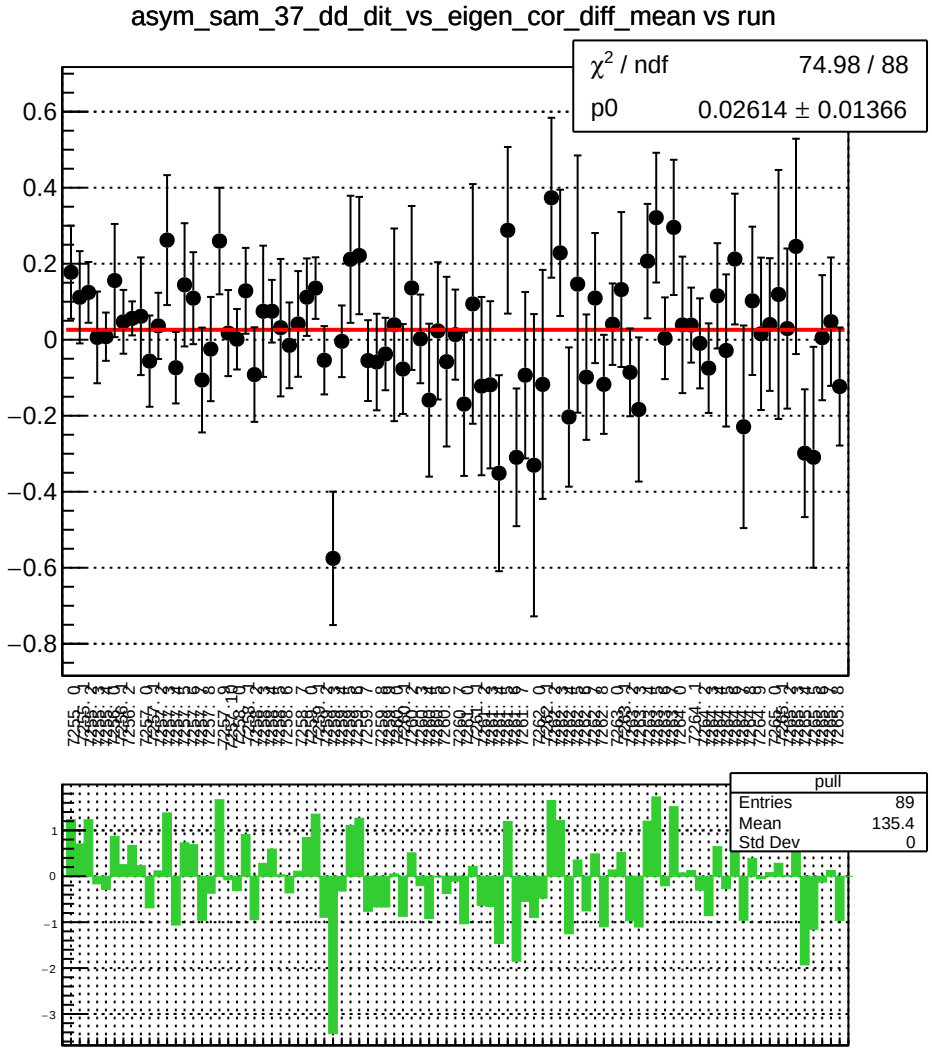

pull1D
Entries 89
Mean 0.1301
Std Dev 0.9788
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

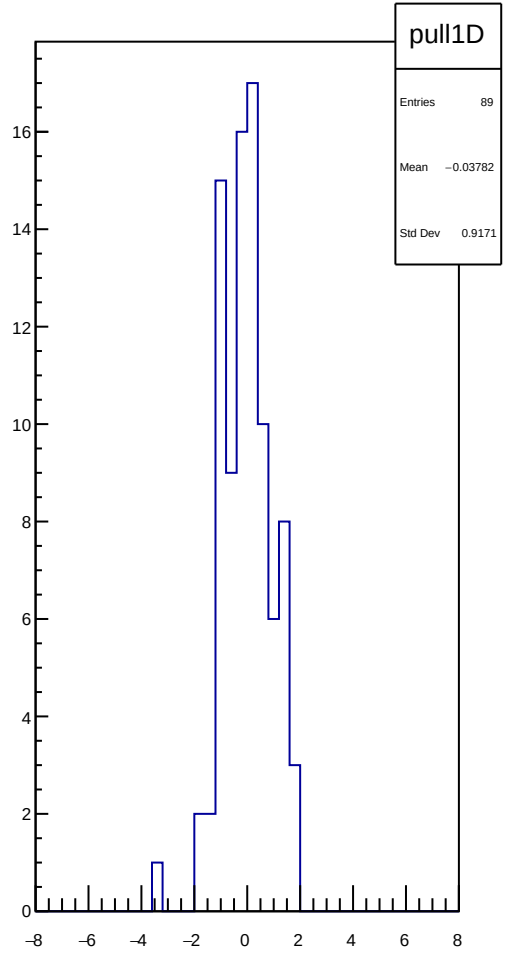

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.203e+05 / 88
p0 6.294e−12 ± 7.15e−15
0.05
0.04
0.03
0.02
0.01
0

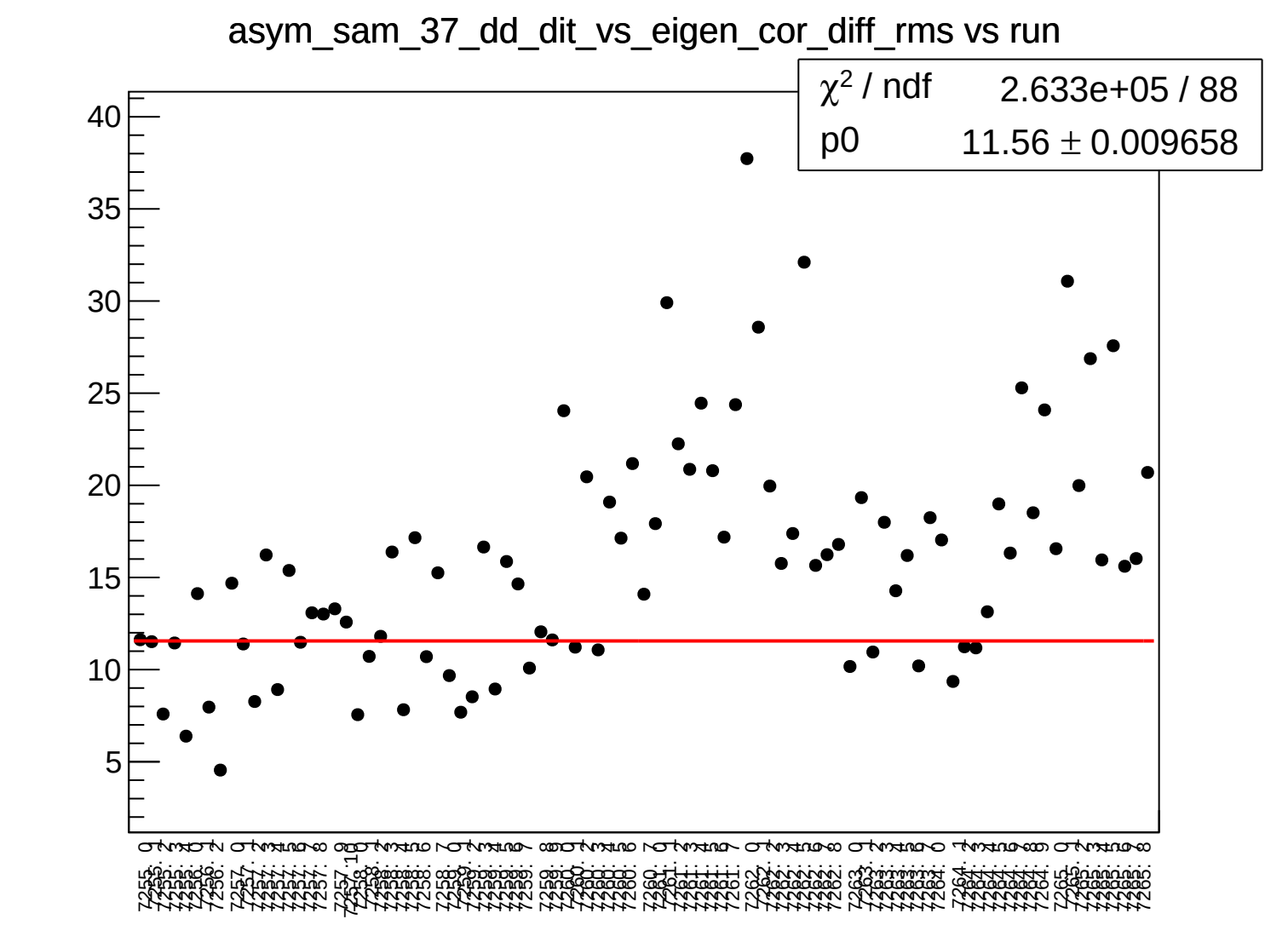

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.98 / 88
p0 0.02614 ± 0.01366
pull
Entries 89
Mean 135.4
Std Dev 0

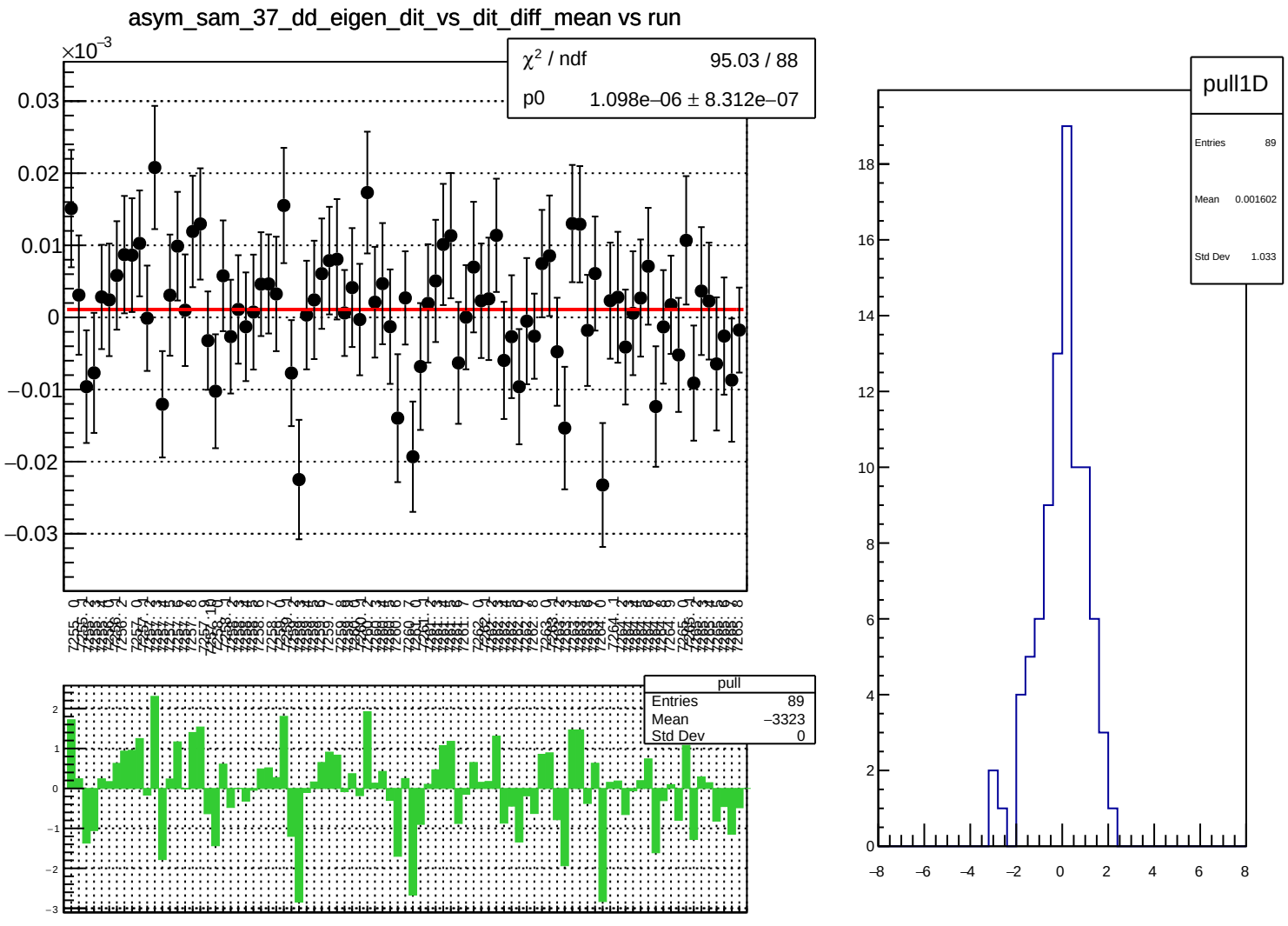

pull1D
Entries 89
Mean −0.03782
Std Dev 0.9171

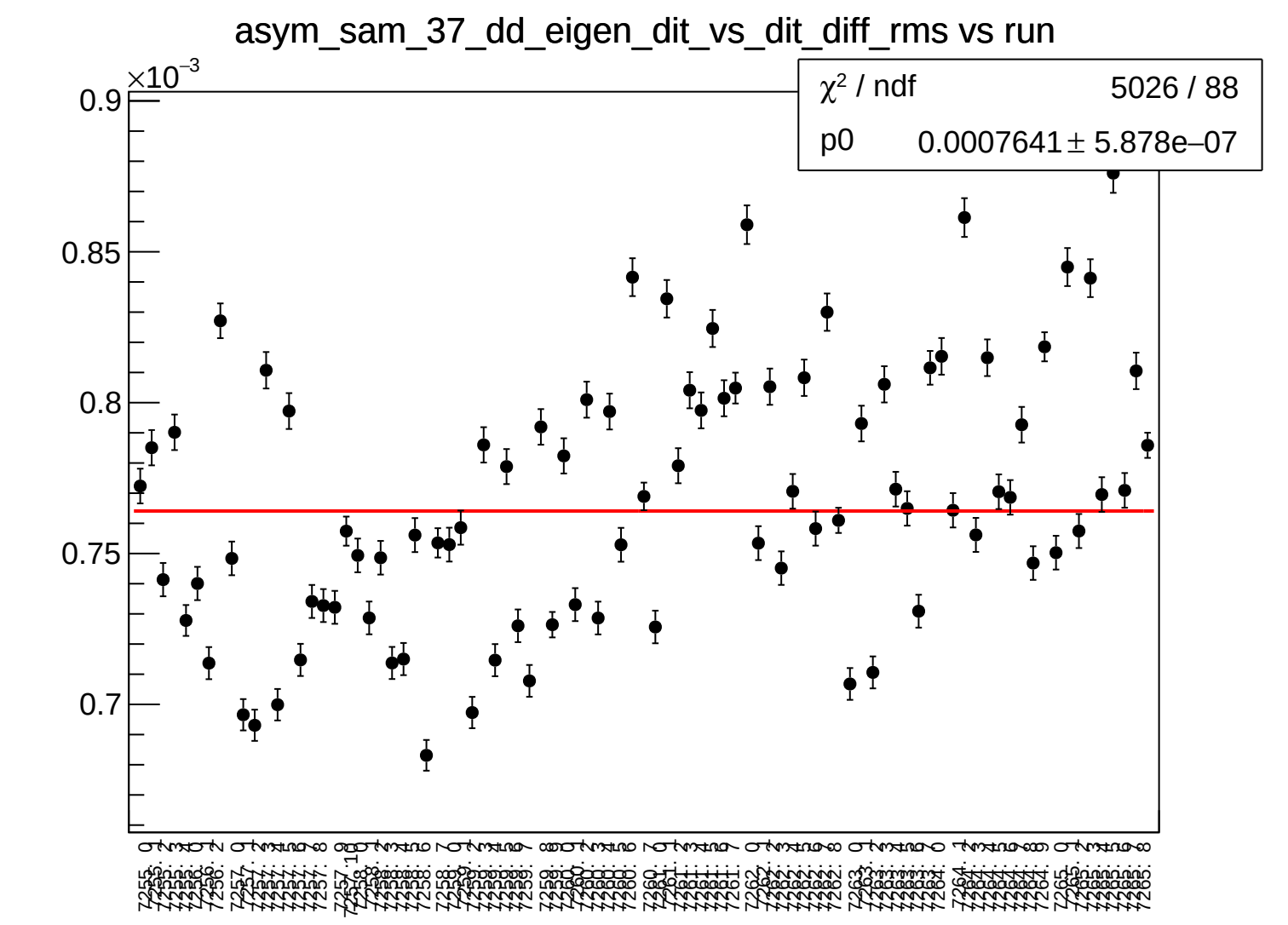

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.633e+05 / 88
p0 11.56 ± 0.009658
40
35
30
25
20
15
10
5

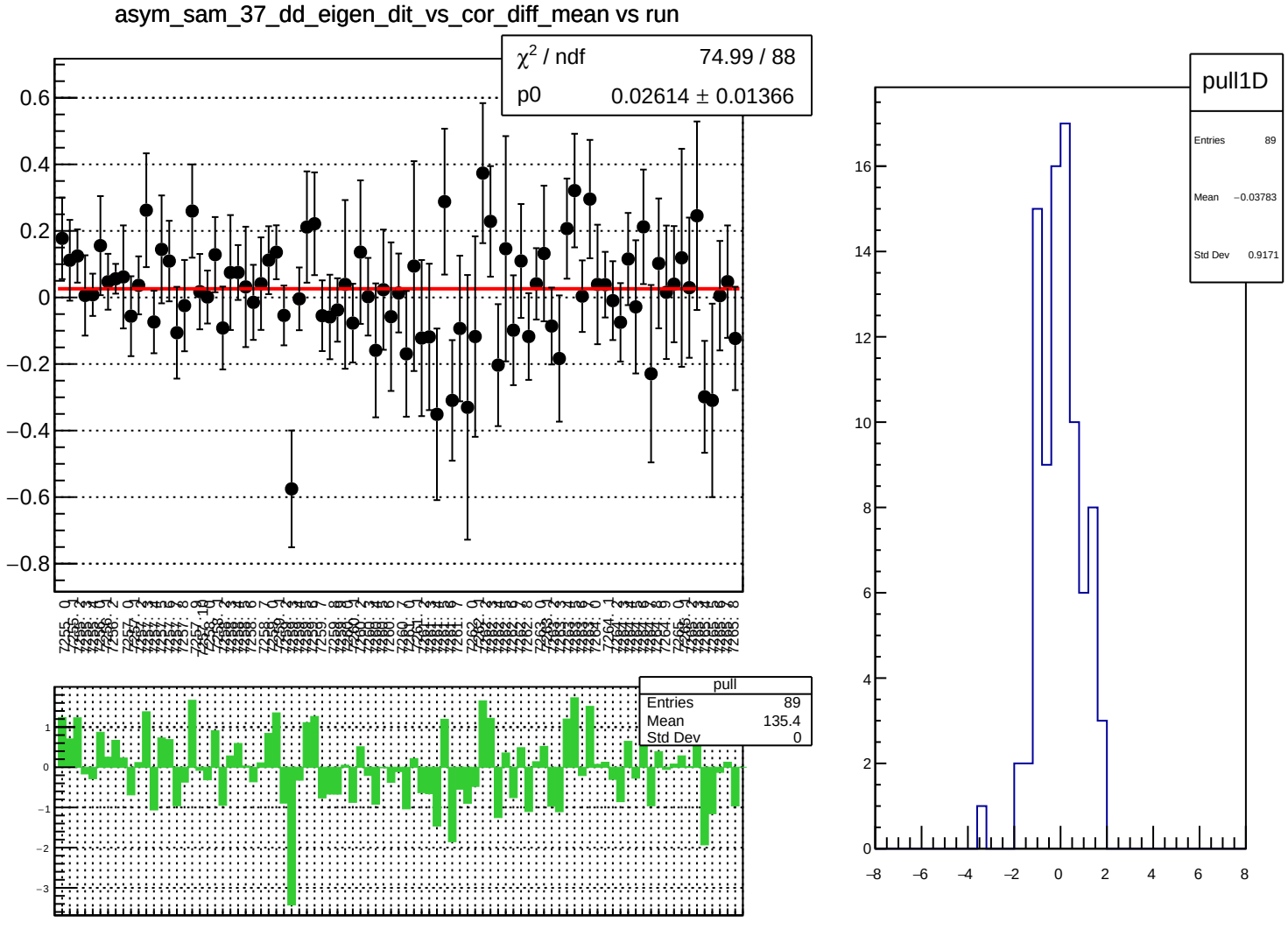

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.98 / 88
p0 0.02614 ± 0.01366
pull
Entries 89
Mean 135.4
Std Dev 0

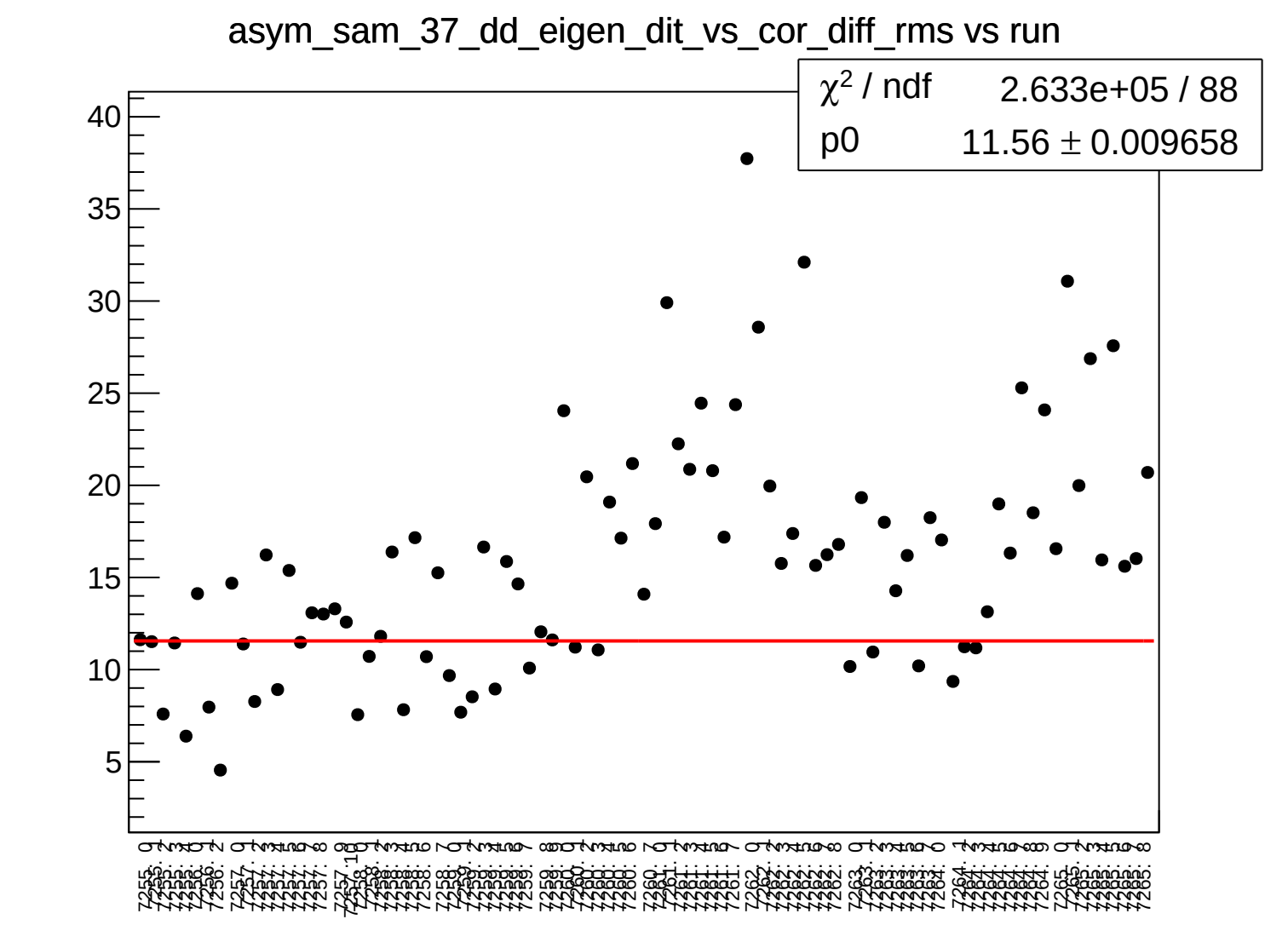

pull1D
Entries 89
Mean −0.03782
Std Dev 0.9171

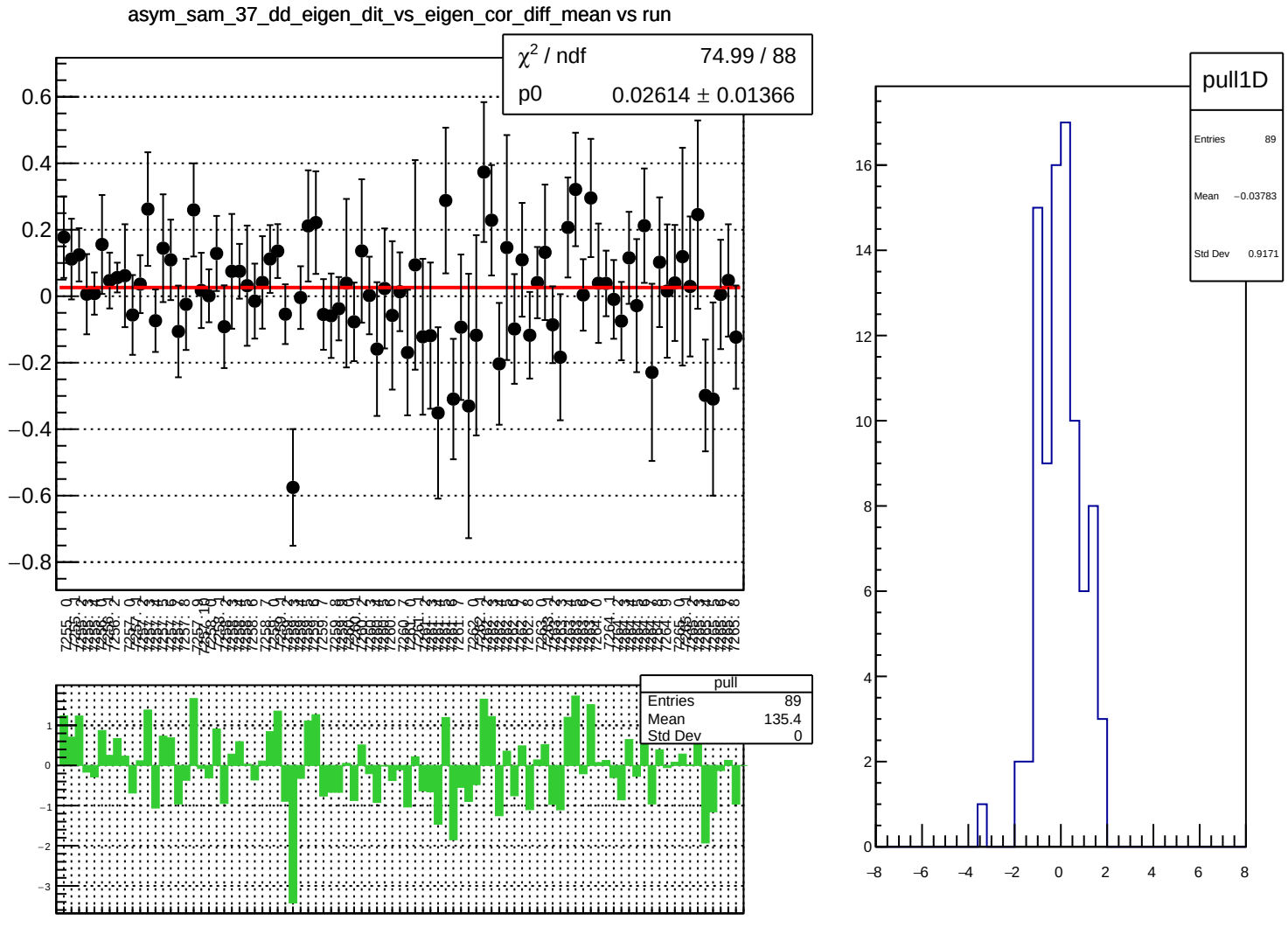

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.633e+05 / 88
p0 11.56 ± 0.009658
40
35
30
25
20
15
10
5

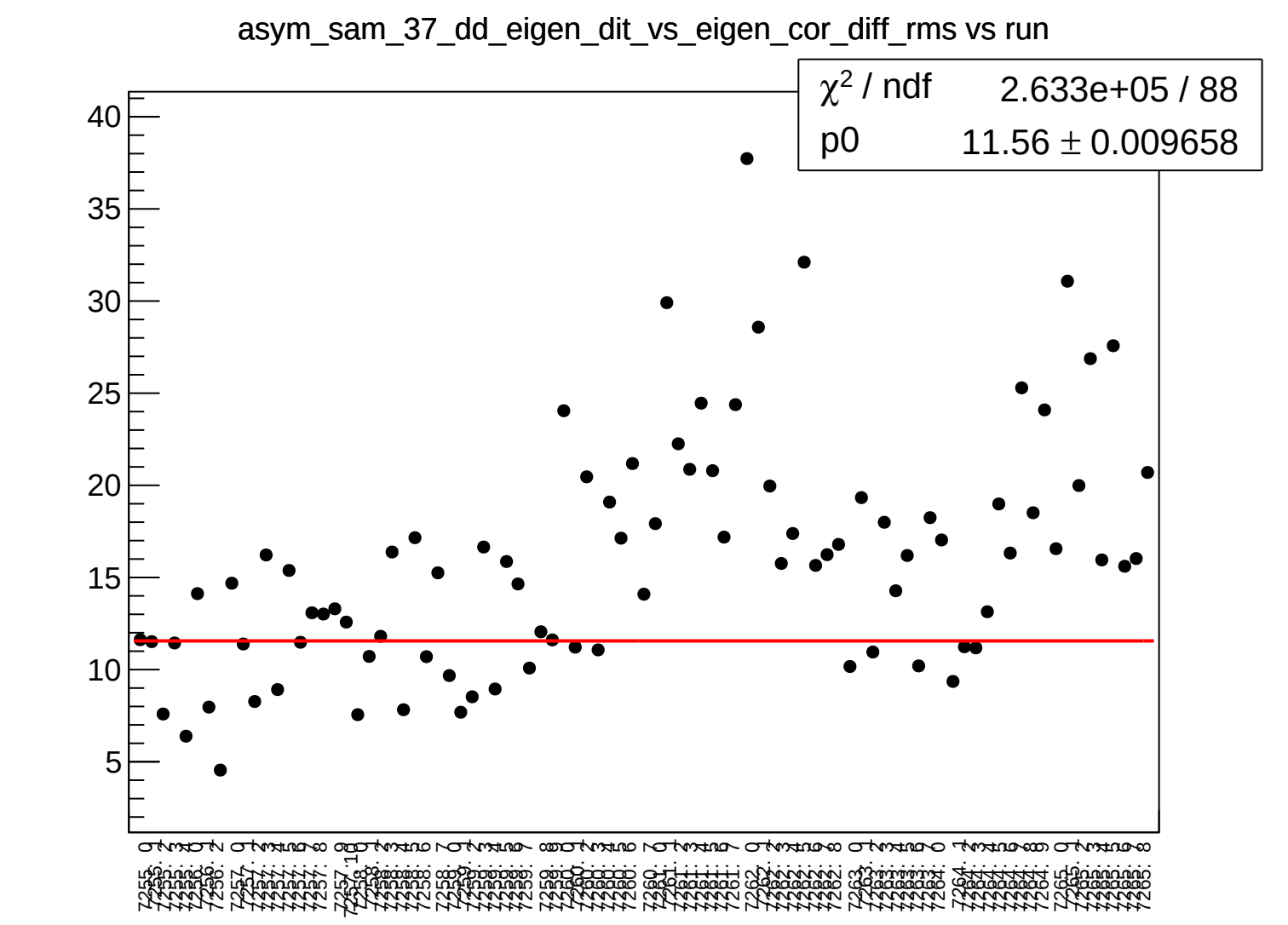

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.03 / 88
p0 1.098e−06 ± 8.312e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean −3323
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.001602
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

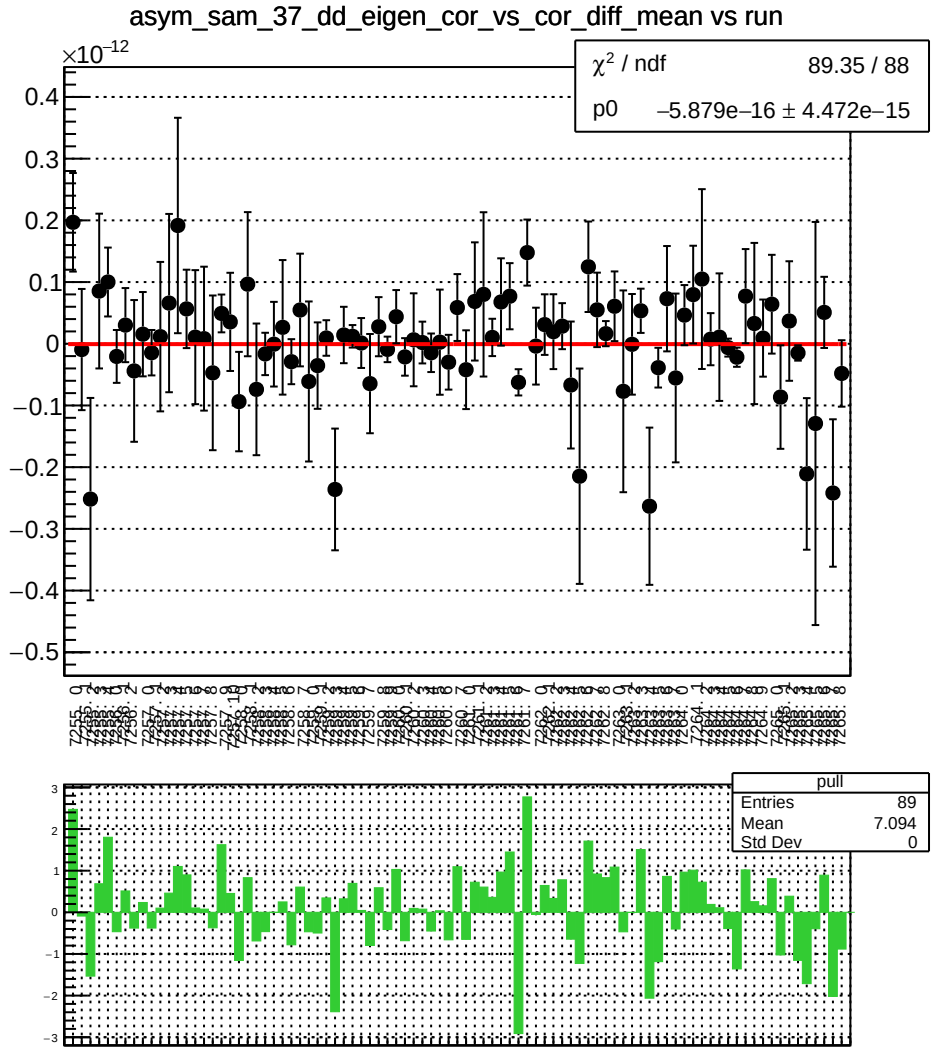

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 5026 / 88
p0 0.0007641 ± 5.878e–07
0.9
0.85
0.8
0.75
0.7

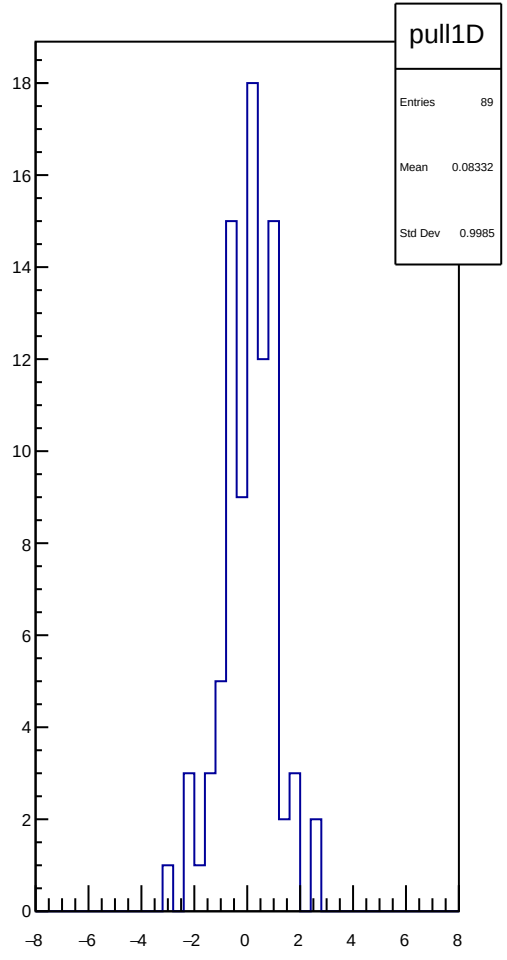

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.99 / 88
p0 0.02614 ± 0.01366
pull
Entries 89
Mean 135.4
Std Dev 0
pull1D
Entries 89
Mean −0.03783
Std Dev 0.9171

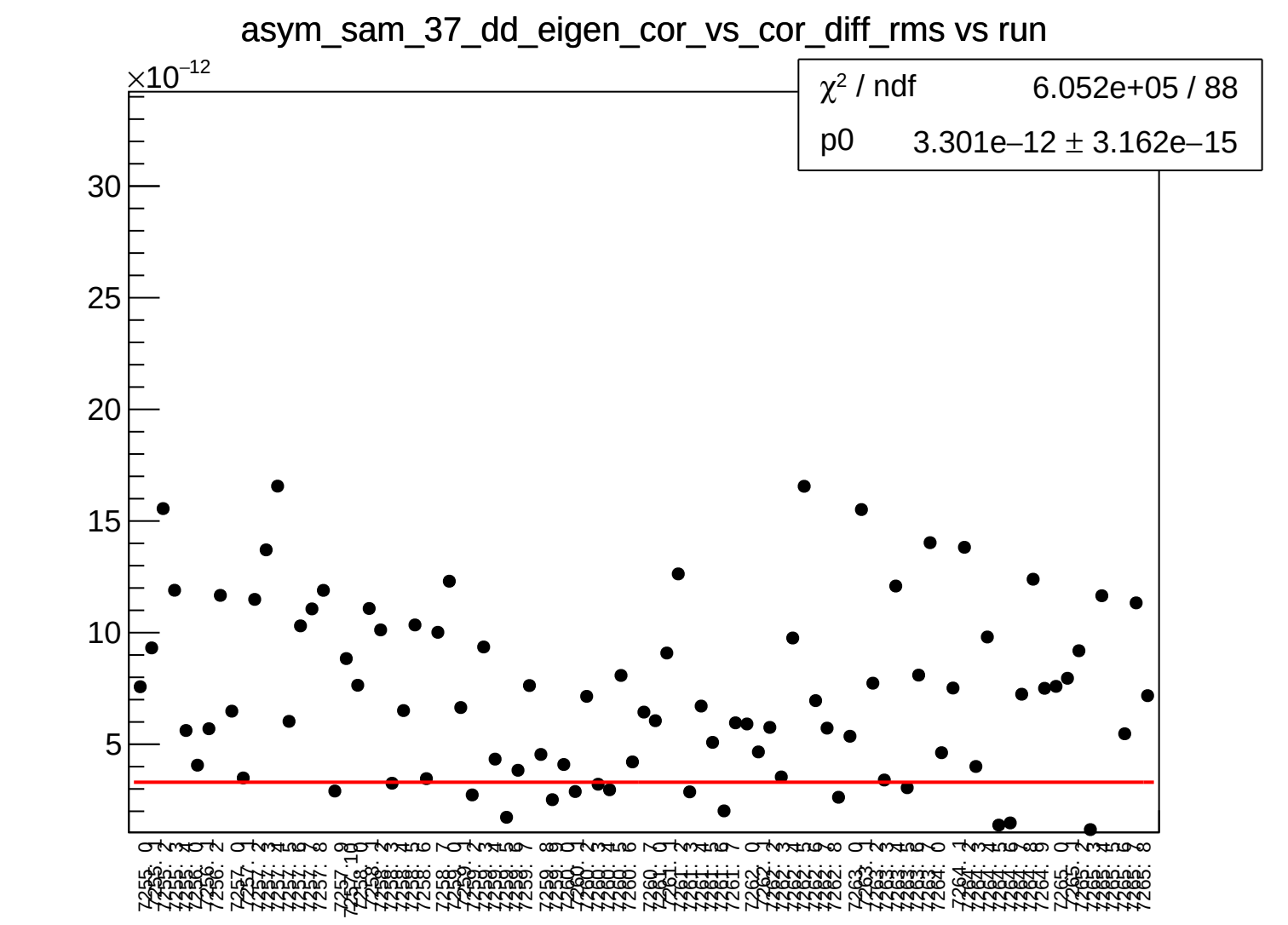

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.633e+05 / 88
p0 11.56 ± 0.009658
40
35
30
25
20
15
10
5

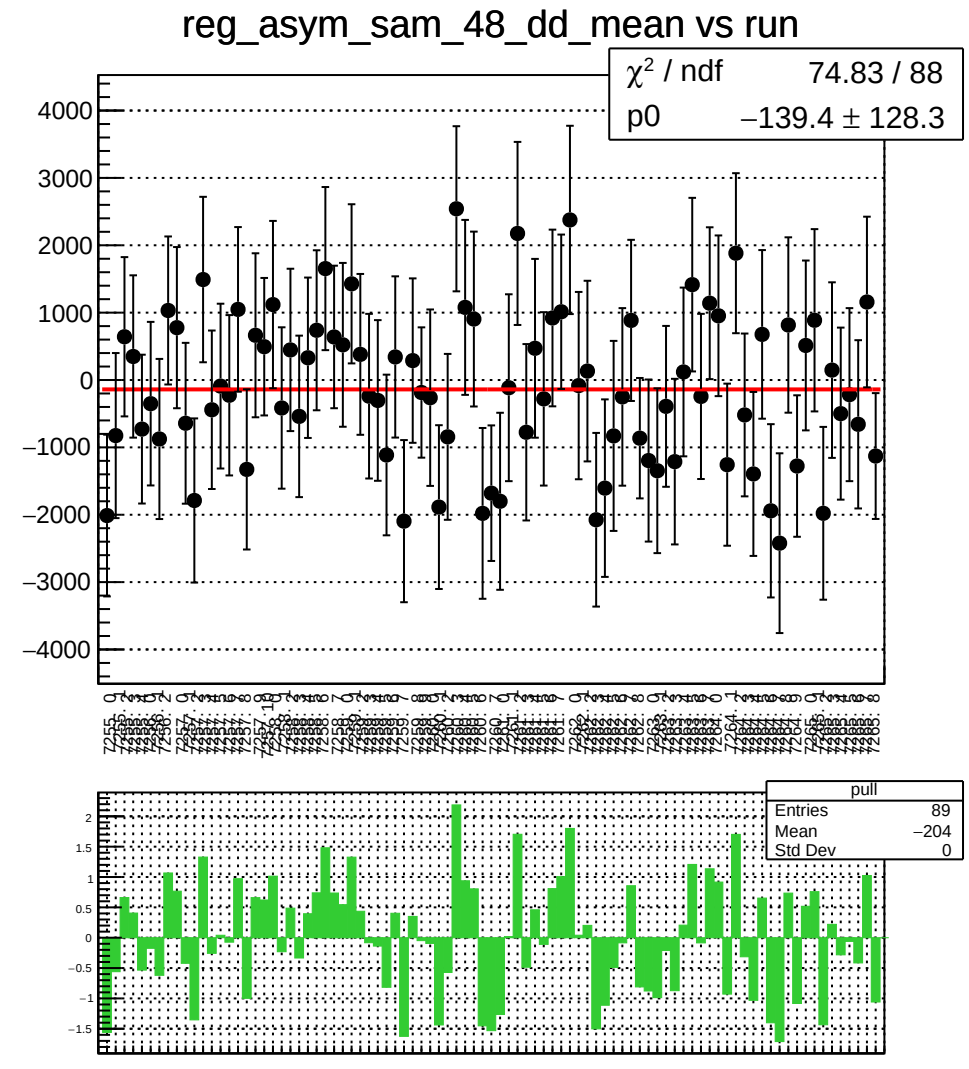

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.99 / 88
p0 0.02614 ± 0.01366
pull
Entries 89
Mean 135.4
Std Dev 0
pull1D
Entries 89
Mean −0.03783
Std Dev 0.9171

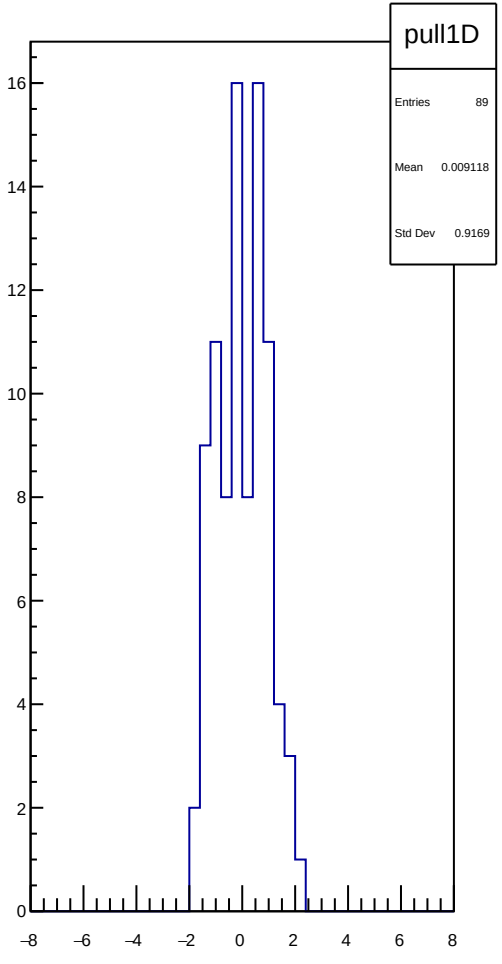

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.633e+05 / 88
p0 11.56 ± 0.009658
40
35
30
25
20
15
10
5

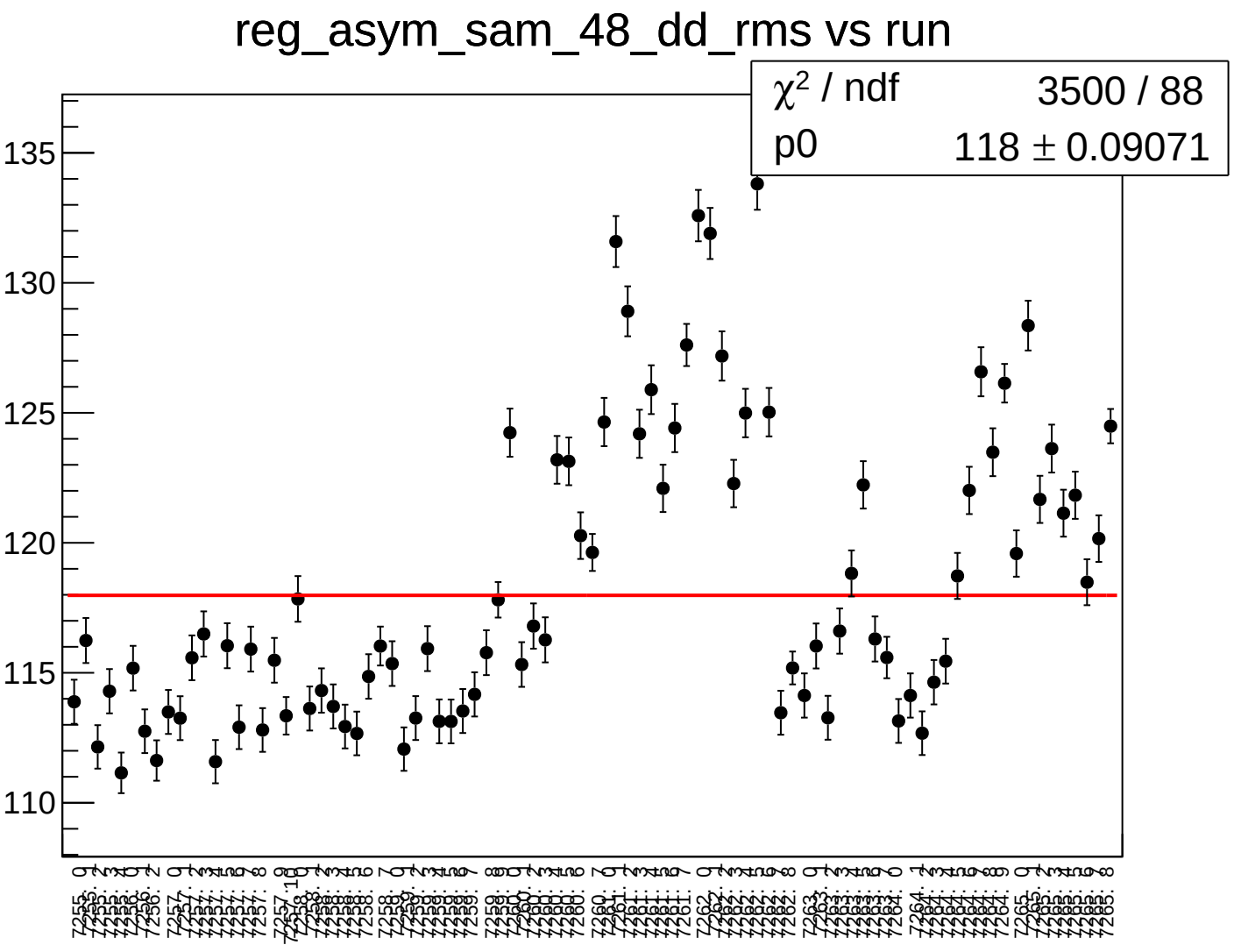

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.35 / 88
p0 −5.879e−16 ± 4.472e−15
pull
Entries 89
Mean 7.094
Std Dev 0

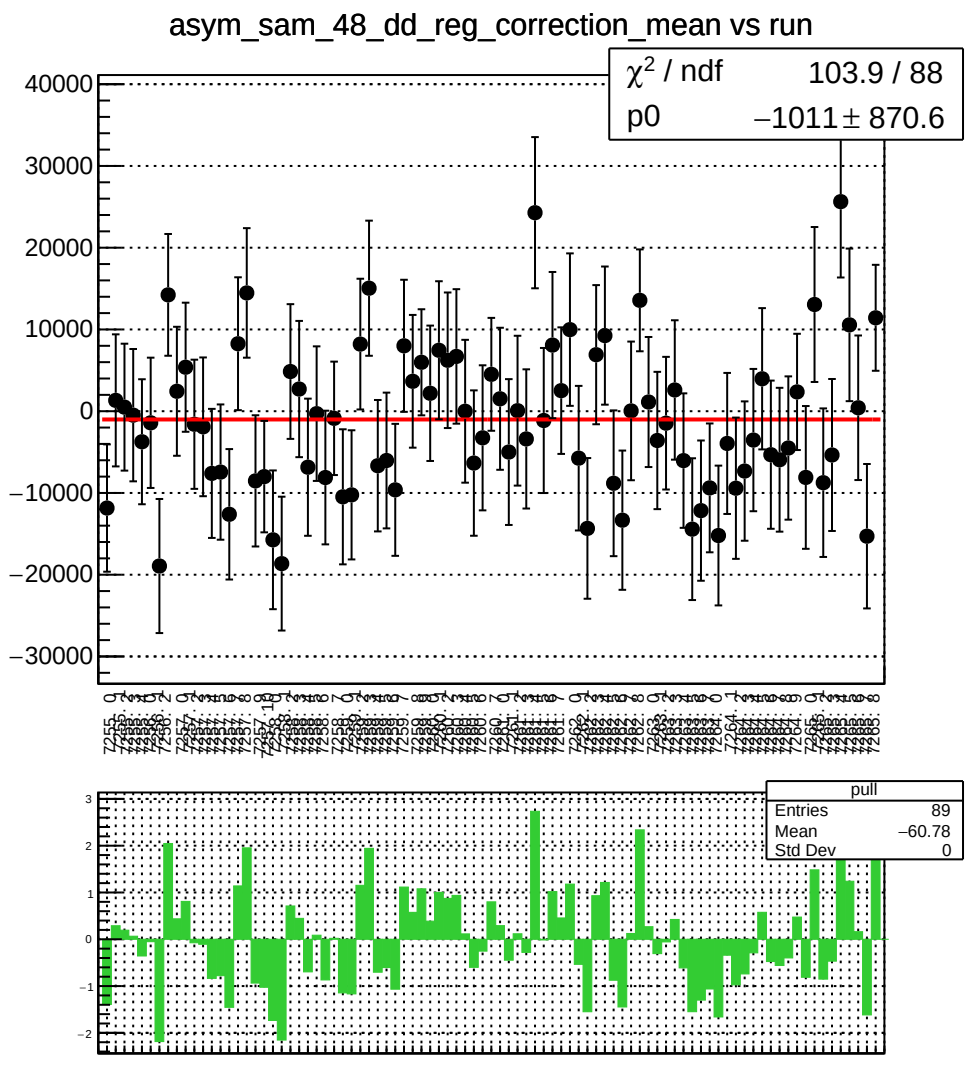

pull1D
Entries 89
Mean 0.08332
Std Dev 0.9985

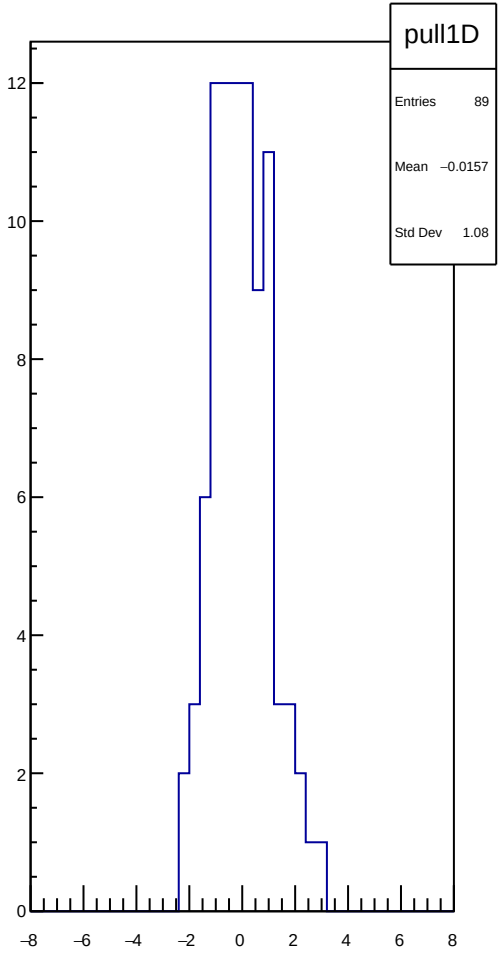

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.052e+05 / 88
p0 3.301e−12 ± 3.162e−15
30
25
20
15
10
5

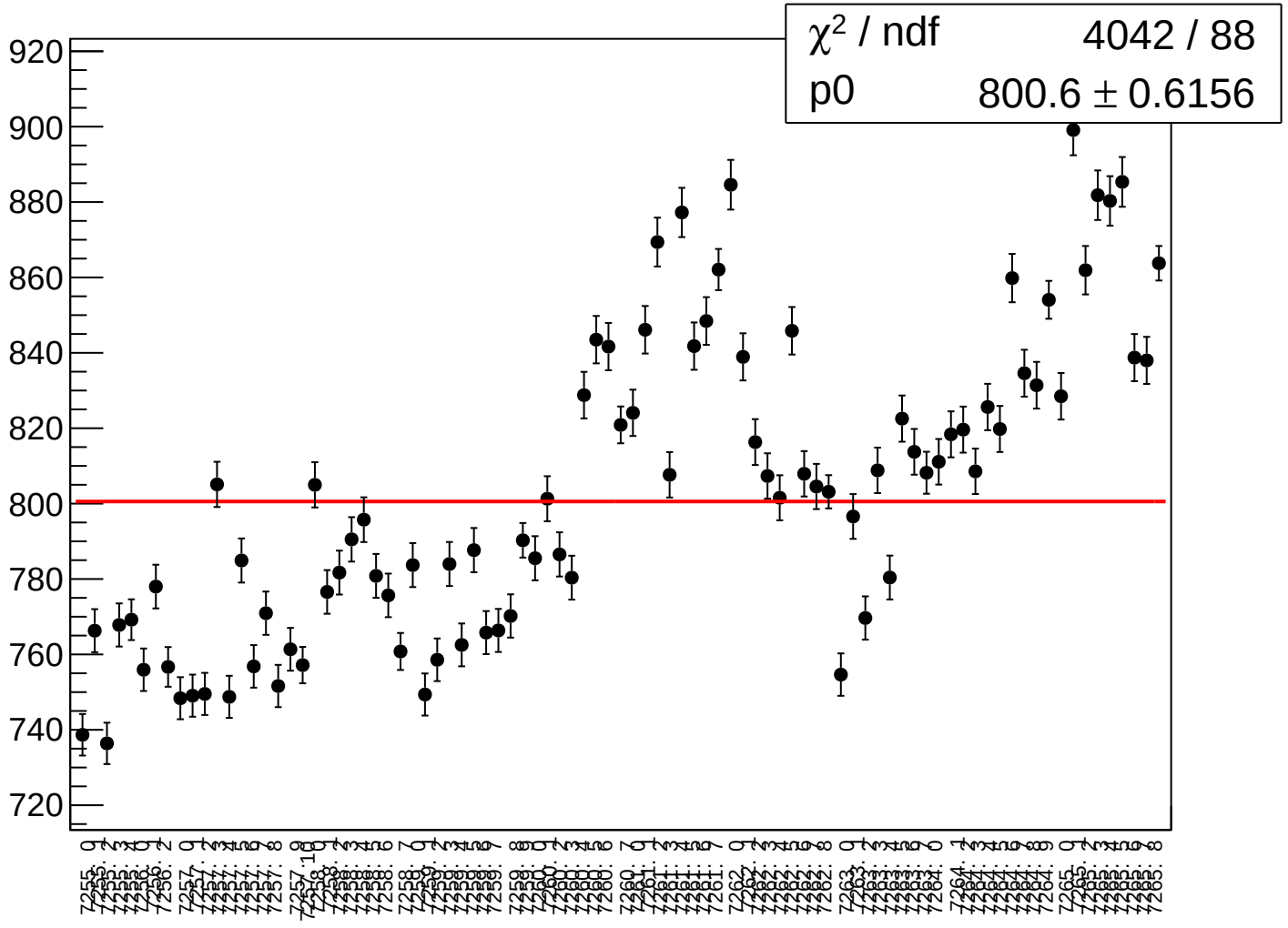

reg_asym_sam_48_dd_mean vs run
χ² / ndf 74.83 / 88
p0 −139.4 ± 128.3
pull
Entries 89
Mean −204
Std Dev 0

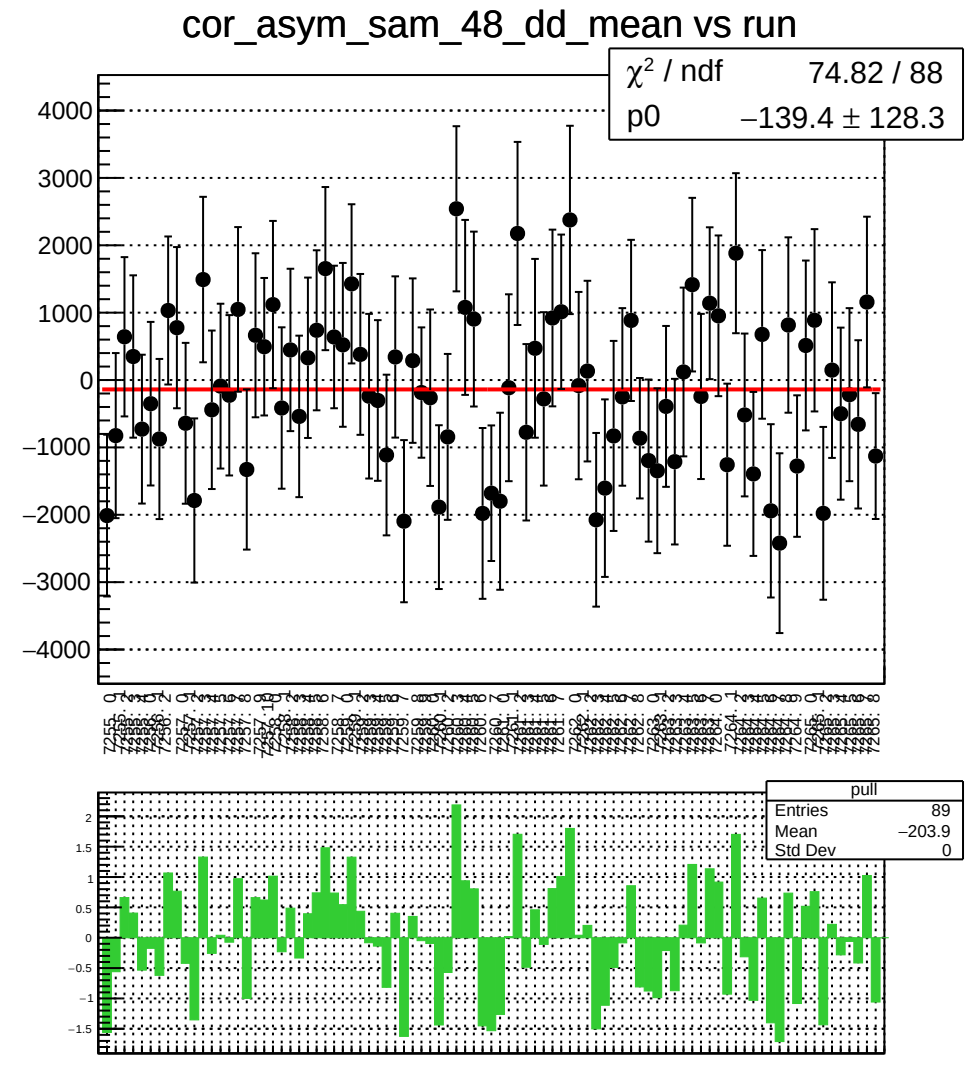

pull1D
Entries 89
Mean 0.009118
Std Dev 0.9169

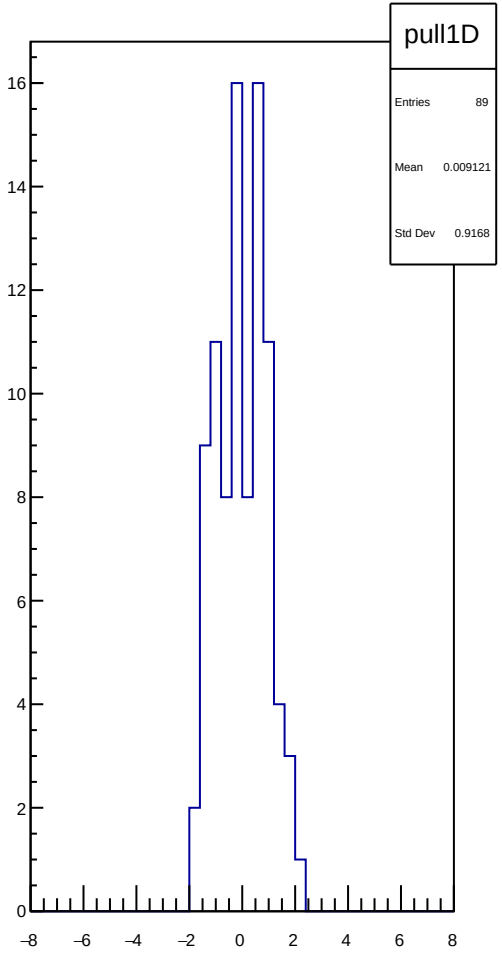

reg_asym_sam_48_dd_rms vs run
χ² / ndf 3500 / 88
p0 118 ± 0.09071
135
130
125
120
115
110

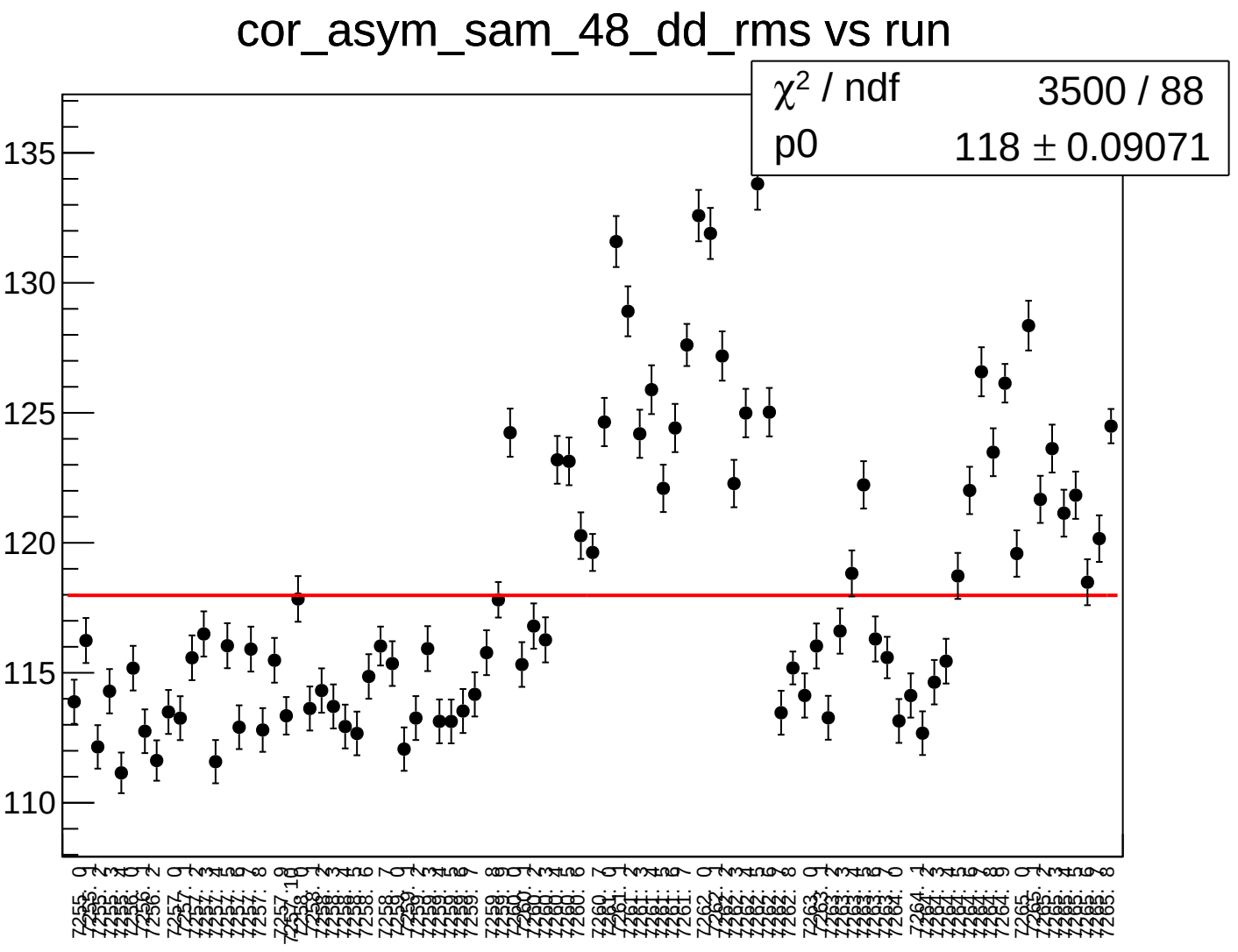

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 103.9 / 88
p0 −1011 ± 870.6
pull
Entries 89
Mean −60.78
Std Dev 0

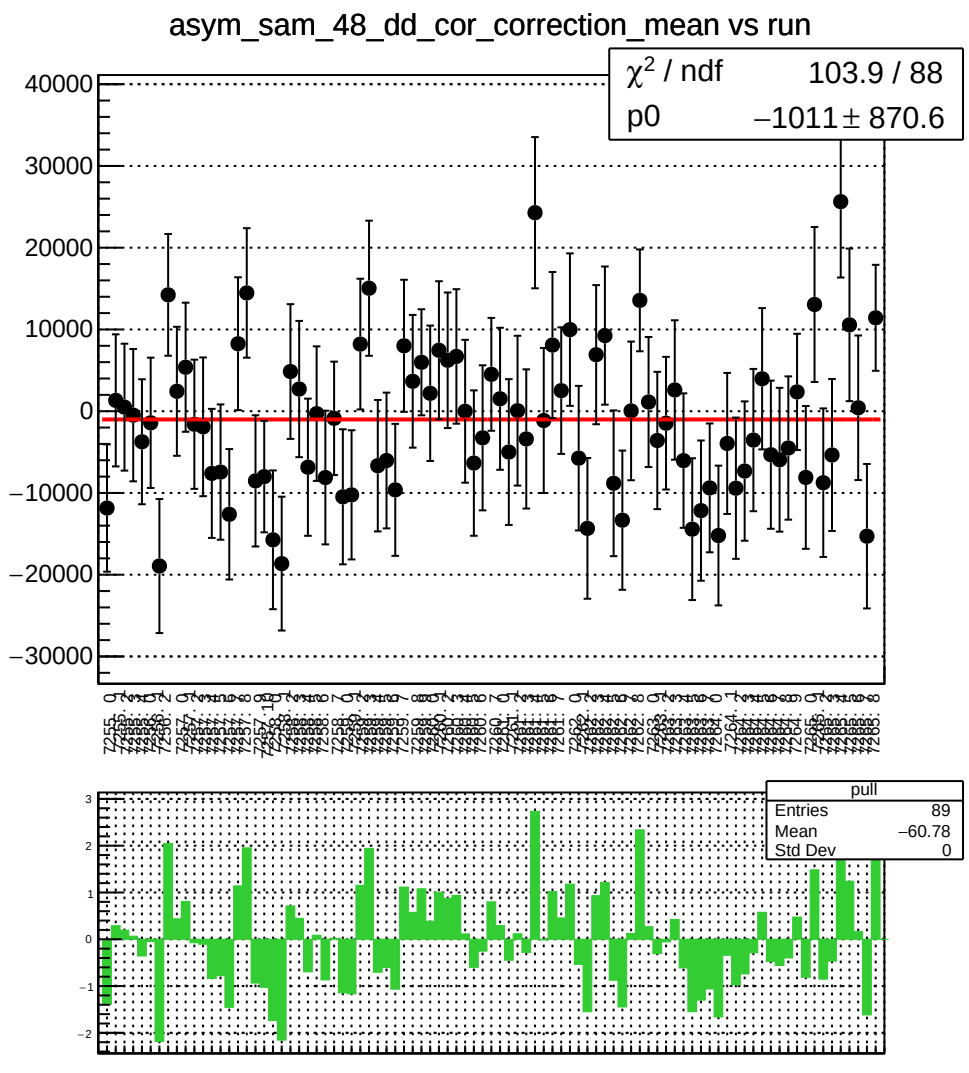

pull1D
Entries 89
Mean −0.0157
Std Dev 1.08

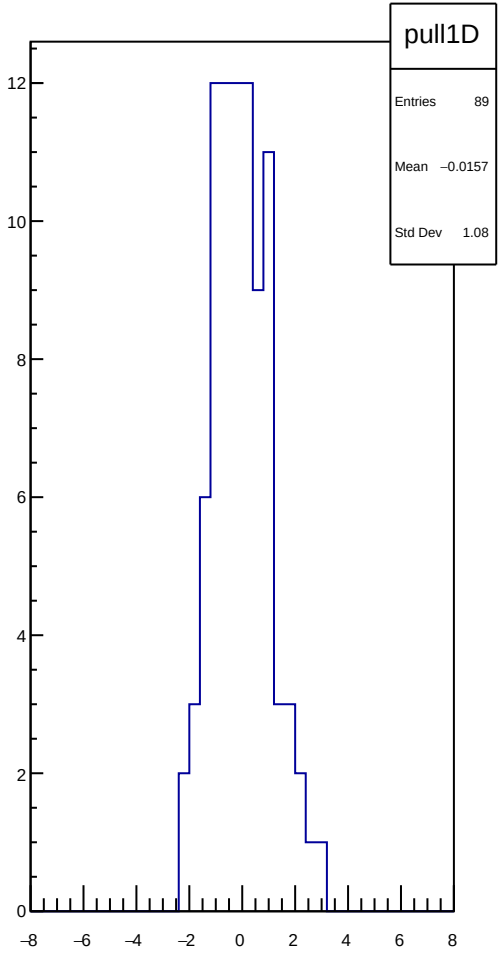

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 4042 / 88
p0 800.6 ± 0.6156
920
900
880
860
840
820
800
780
760
740
720

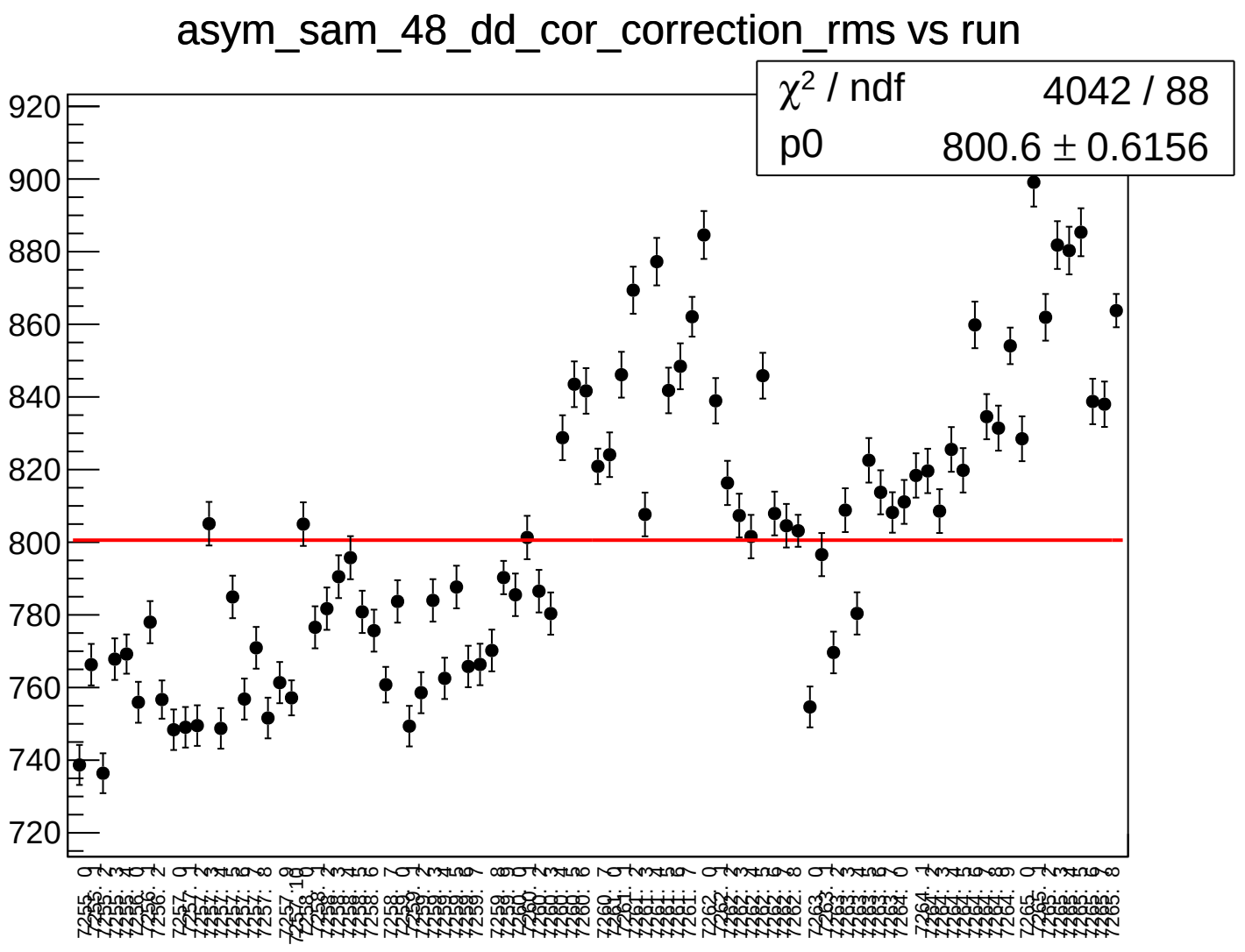

cor_asym_sam_48_dd_mean vs run
χ² / ndf 74.82 / 88
p0 −139.4 ± 128.3
pull
Entries 89
Mean −203.9
Std Dev 0

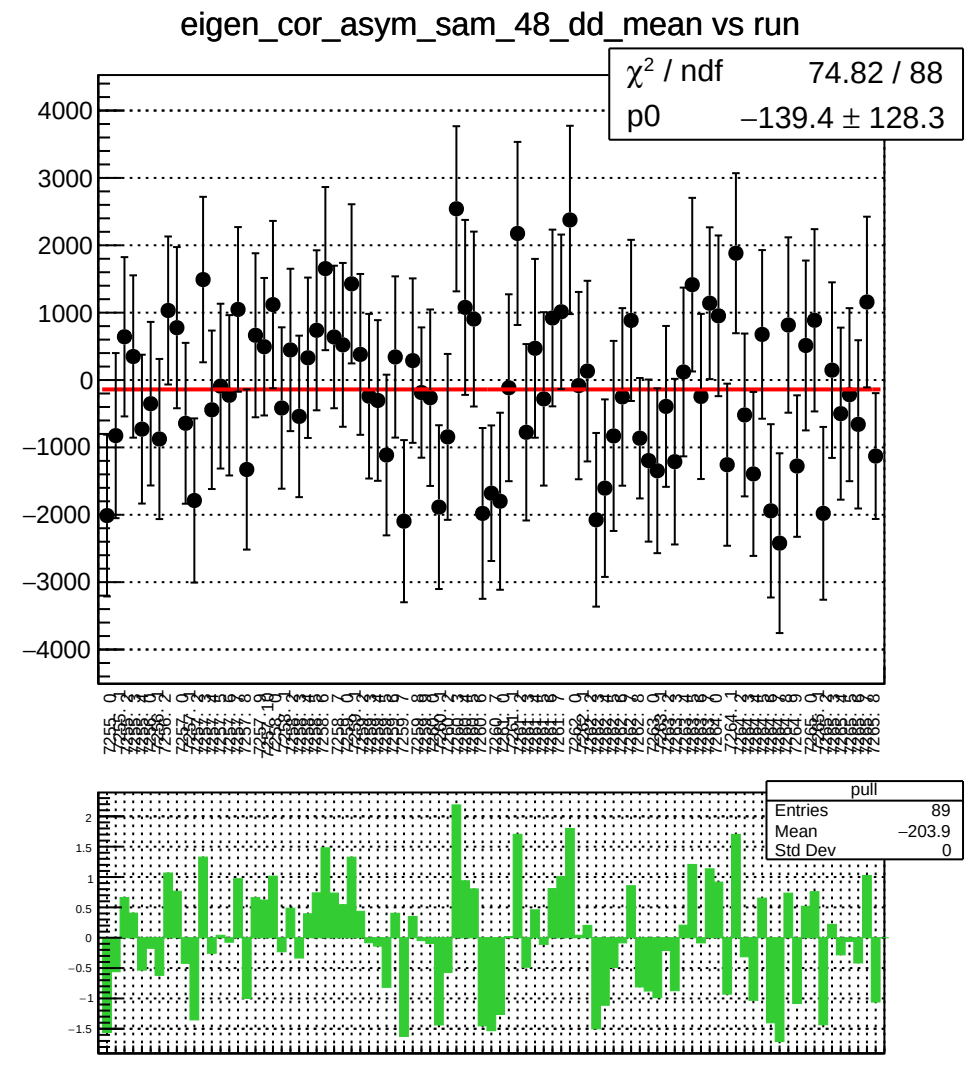

pull1D
Entries 89
Mean 0.009121
Std Dev 0.9168

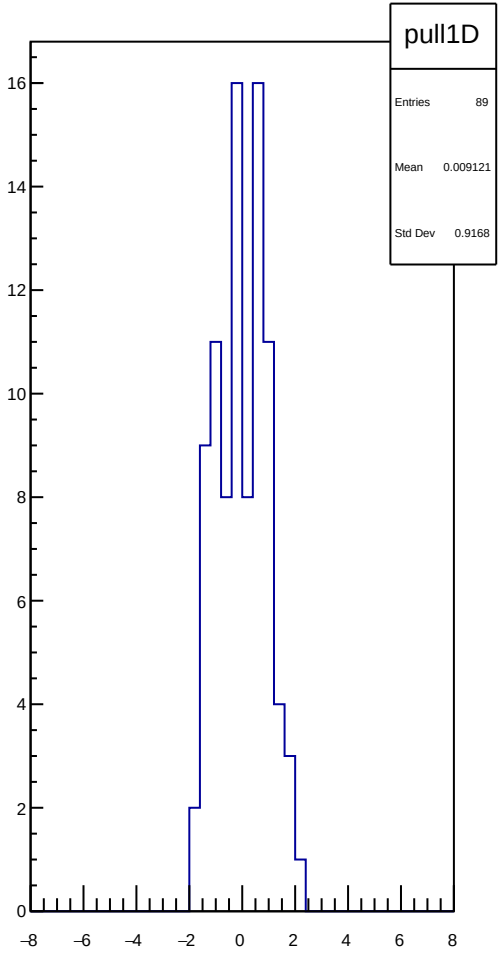

cor_asym_sam_48_dd_rms vs run
χ² / ndf 3500 / 88
p0 118 ± 0.09071
135
130
125
120
115
110

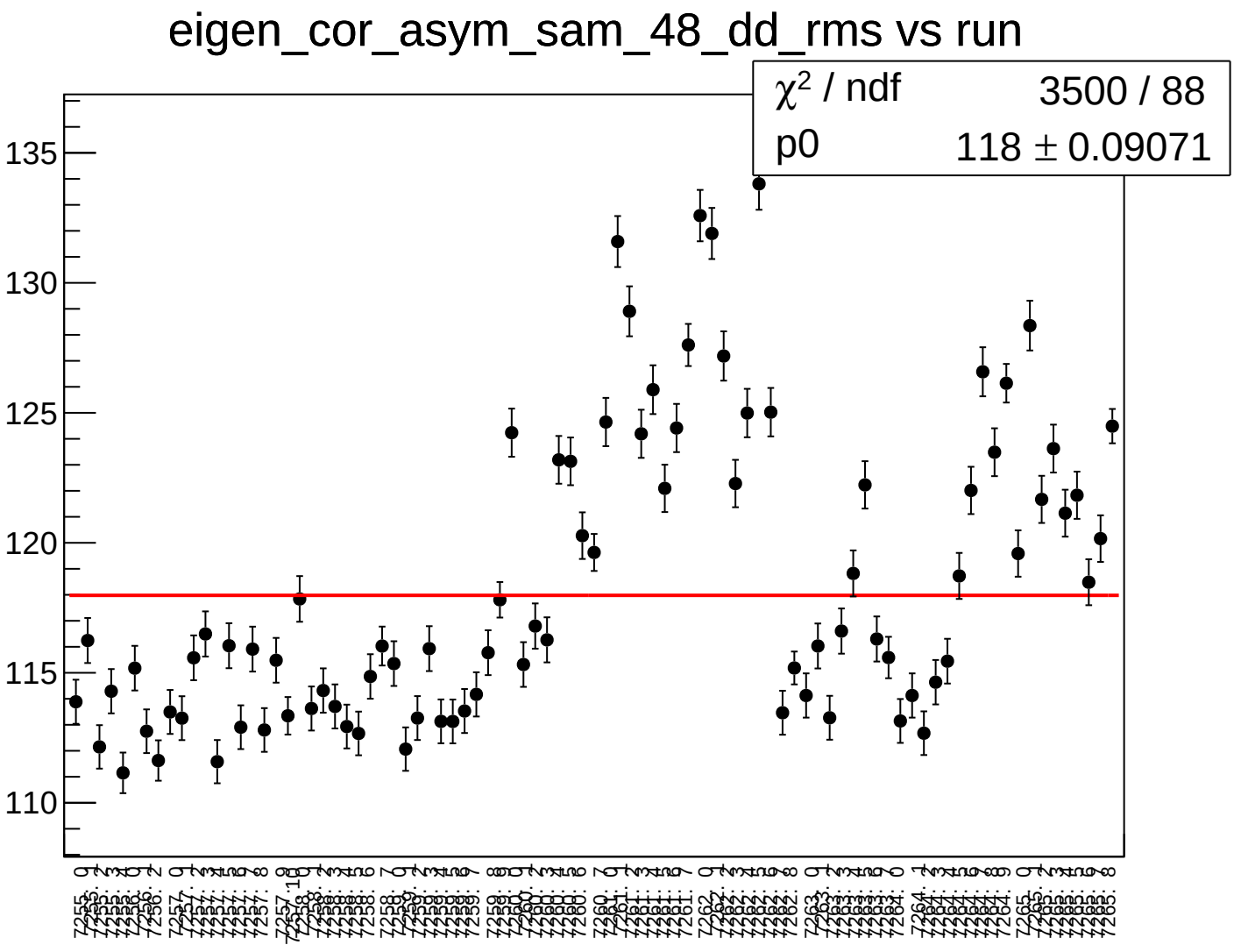

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 103.9 / 88
p0 −1011 ± 870.6
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −60.78
Std Dev 0
3
2
1
0
−1
−2

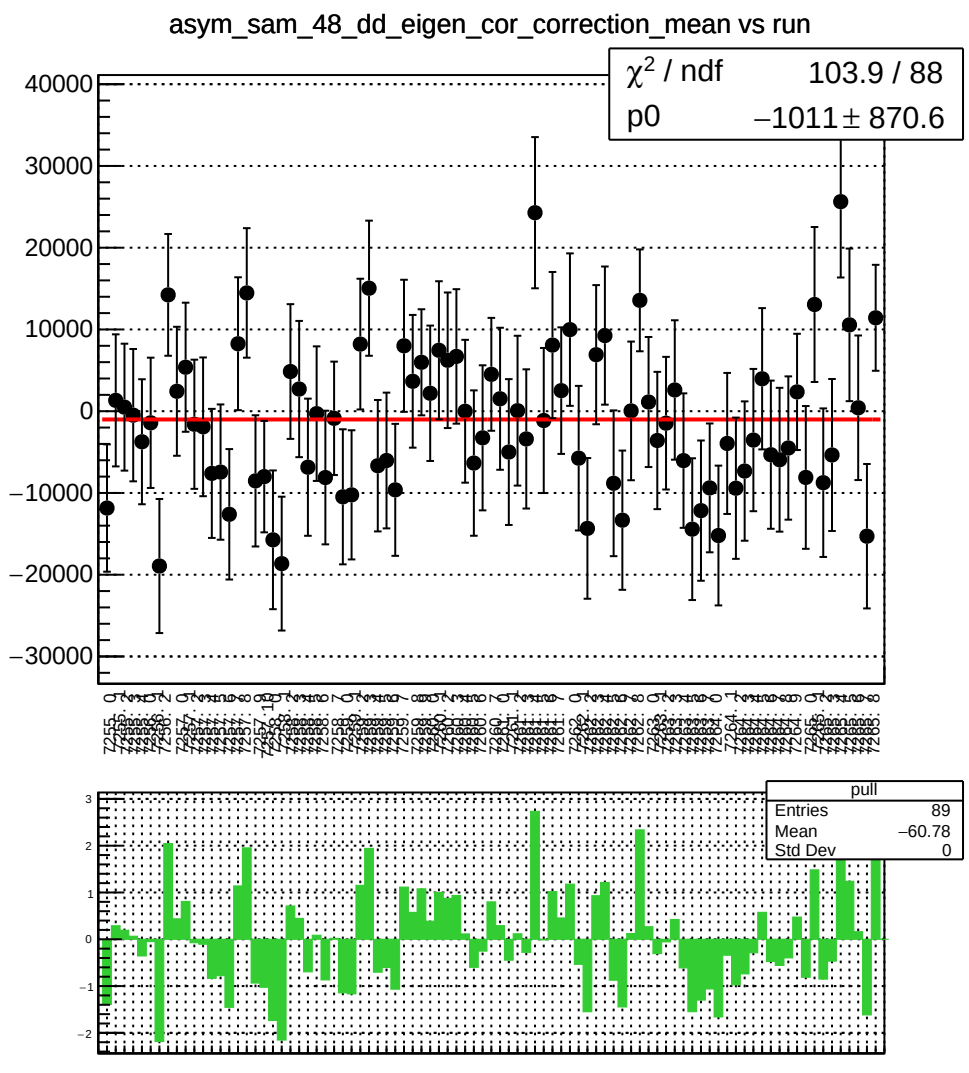

pull1D
Entries 89
Mean −0.0157
Std Dev 1.08
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

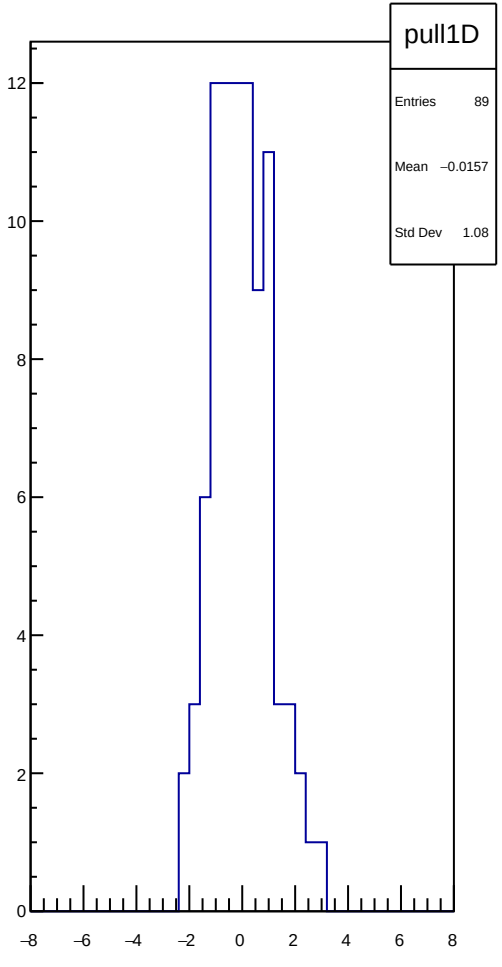

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 4042 / 88
p0 800.6 ± 0.6156
920
900
880
860
840
820
800
780
760
740
720

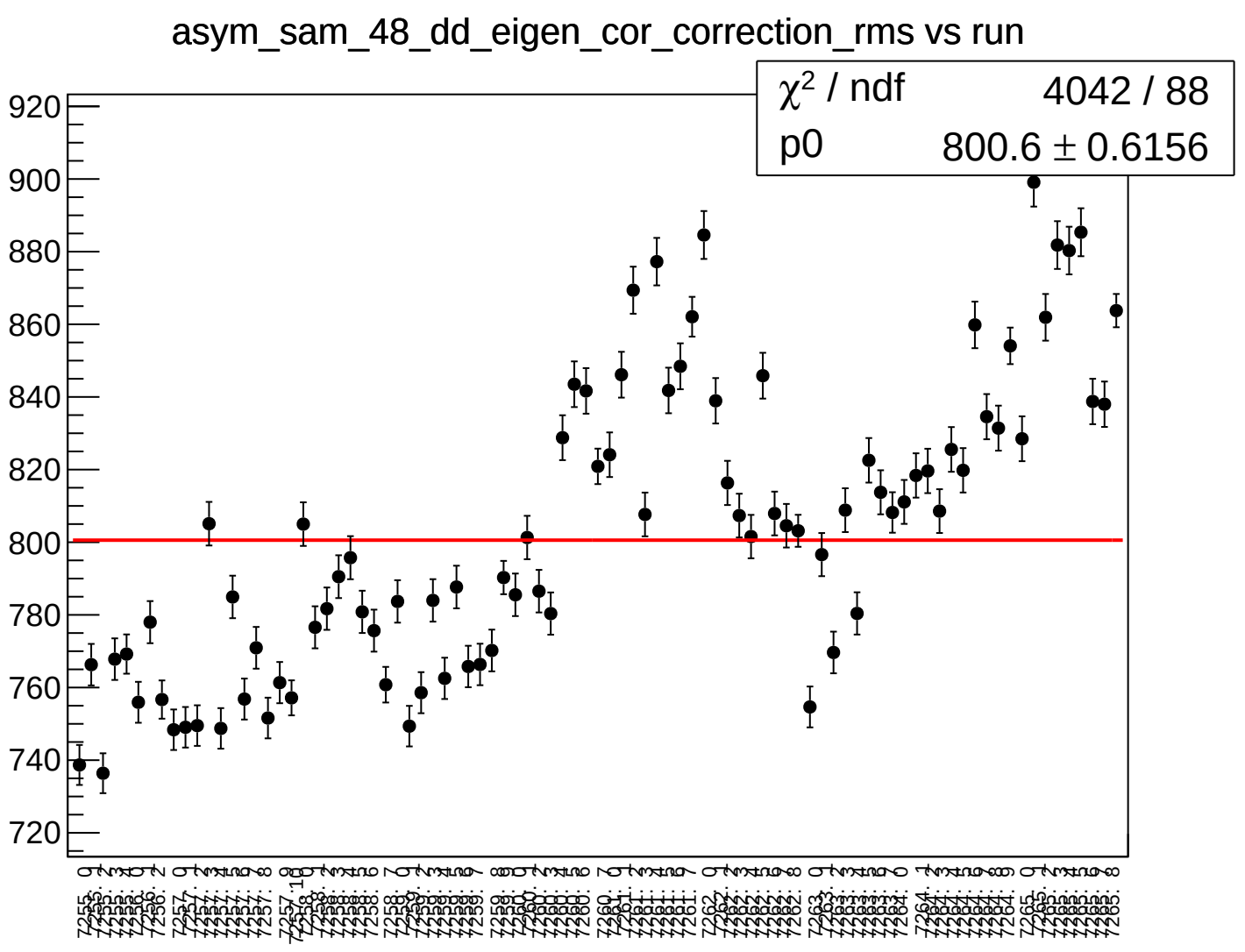

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 74.82 / 88
p0 −139.4 ± 128.3
pull
Entries 89
Mean −203.9
Std Dev 0

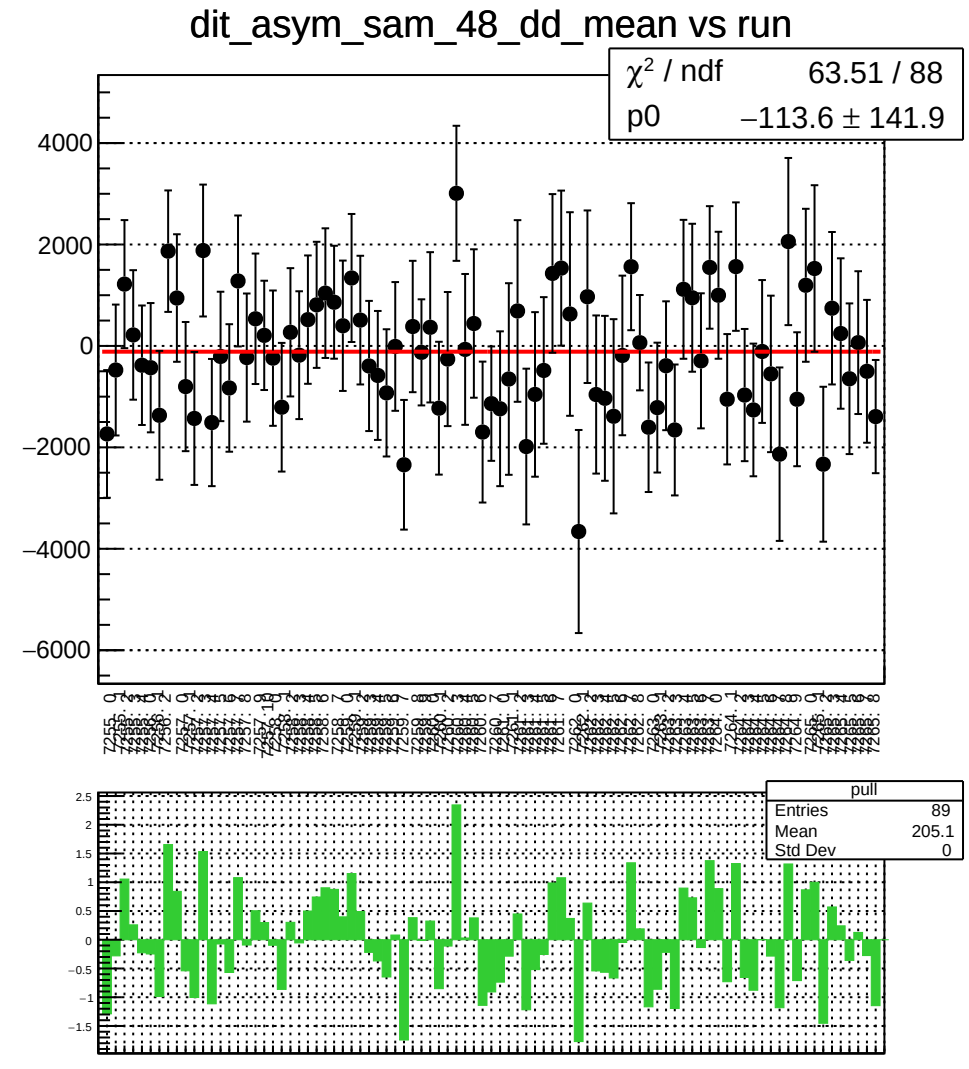

pull1D
Entries 89
Mean 0.009121
Std Dev 0.9168

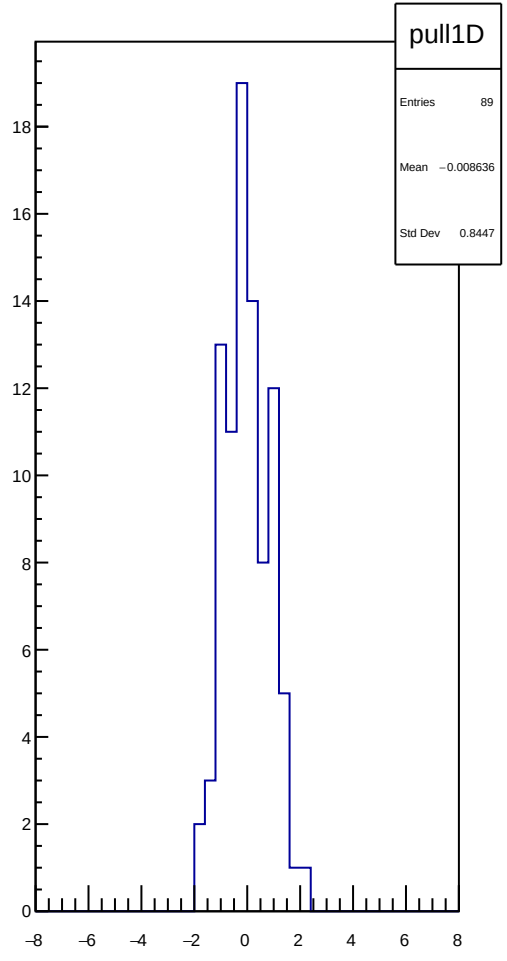

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 3500 / 88
p0 118 ± 0.09071
135
130
125
120
115
110

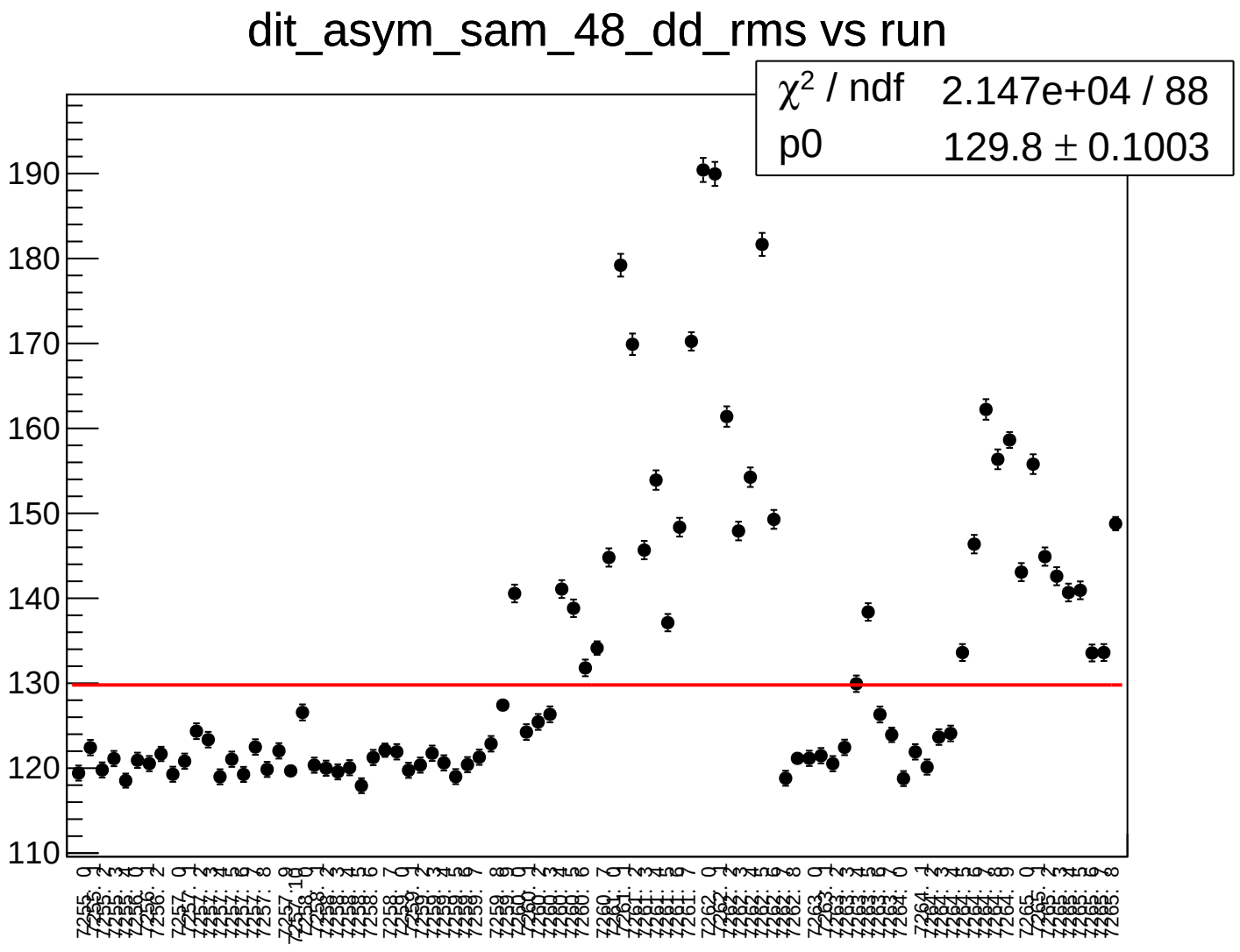

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 103.9 / 88
p0 −1011 ± 870.6
pull
Entries 89
Mean −60.78
Std Dev 0

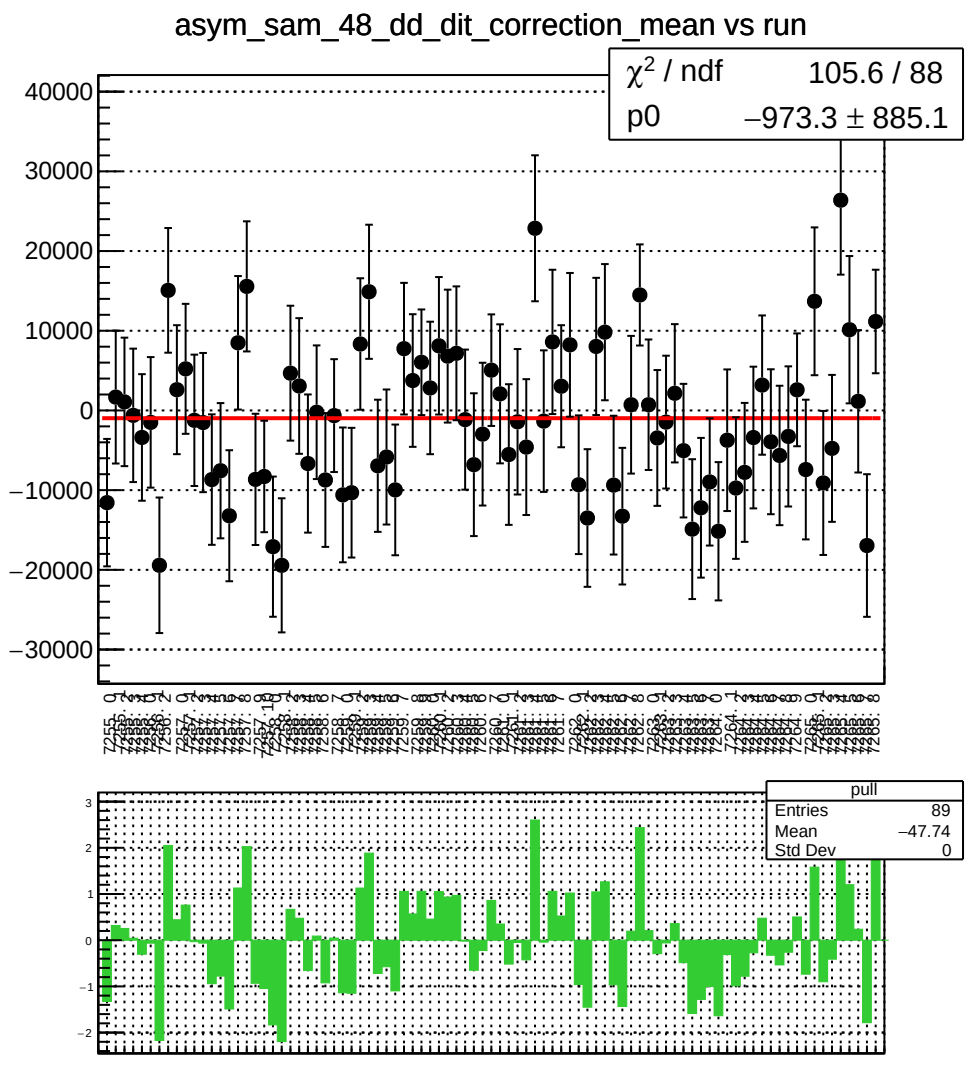

pull1D
Entries 89
Mean −0.0157
Std Dev 1.08

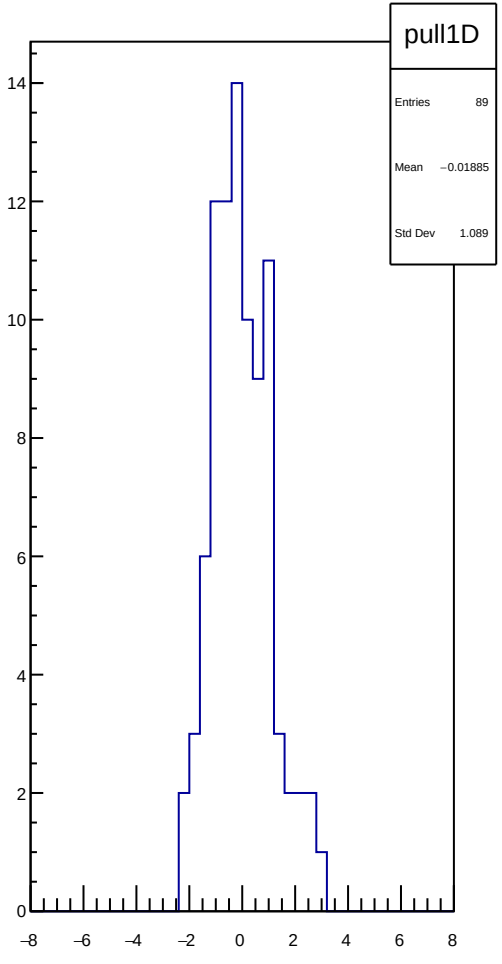

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 4042 / 88
p0 800.6 ± 0.6156
920
900
880
860
840
820
800
780
760
740
720

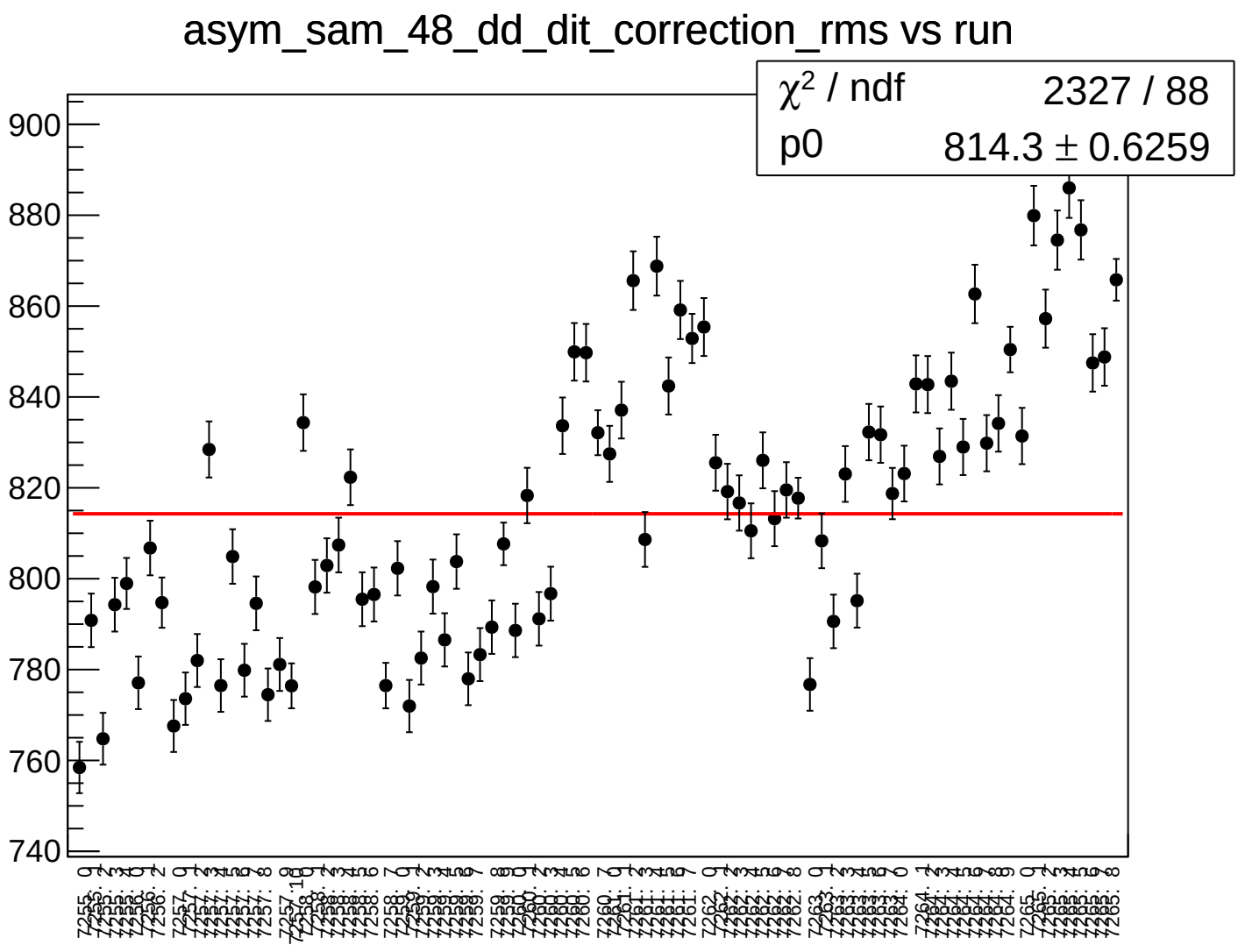

dit_asym_sam_48_dd_mean vs run
χ² / ndf 63.51 / 88
p0 −113.6 ± 141.9
pull
Entries 89
Mean 205.1
Std Dev 0

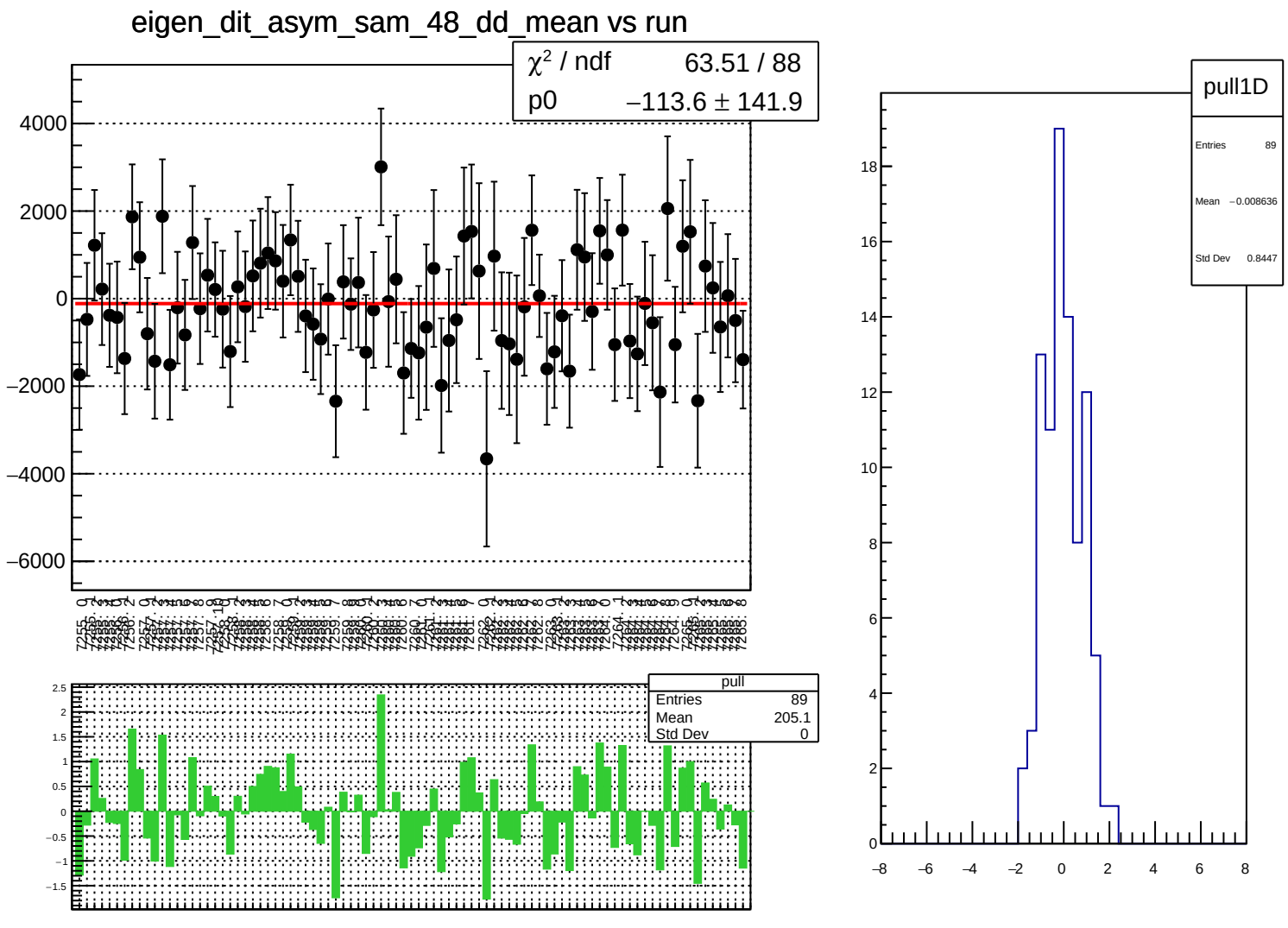

pull1D
Entries 89
Mean −0.008636
Std Dev 0.8447

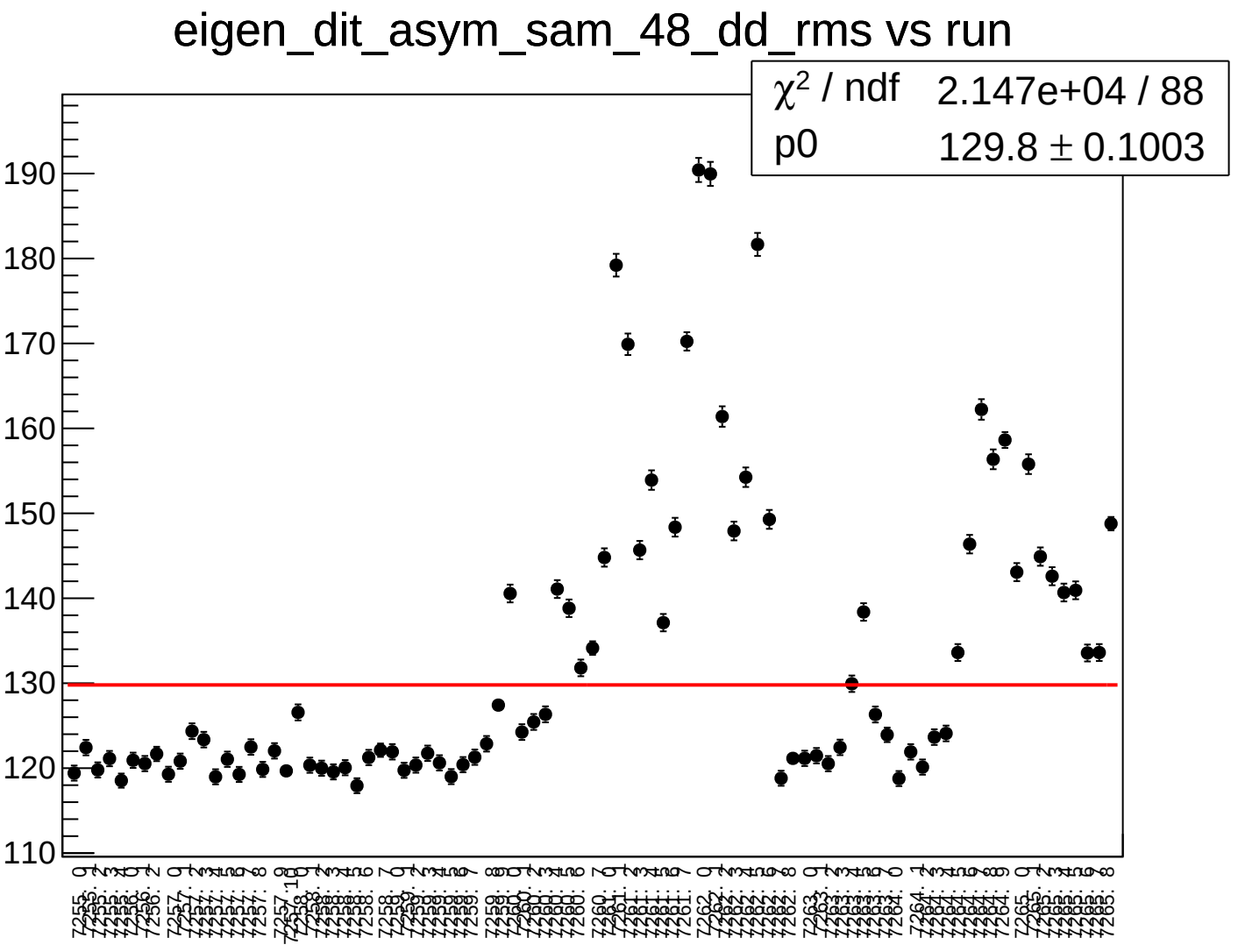

dit_asym_sam_48_dd_rms vs run
χ² / ndf 2.147e+04 / 88
p0 129.8 ± 0.1003
190
180
170
160
150
140
130
120
110

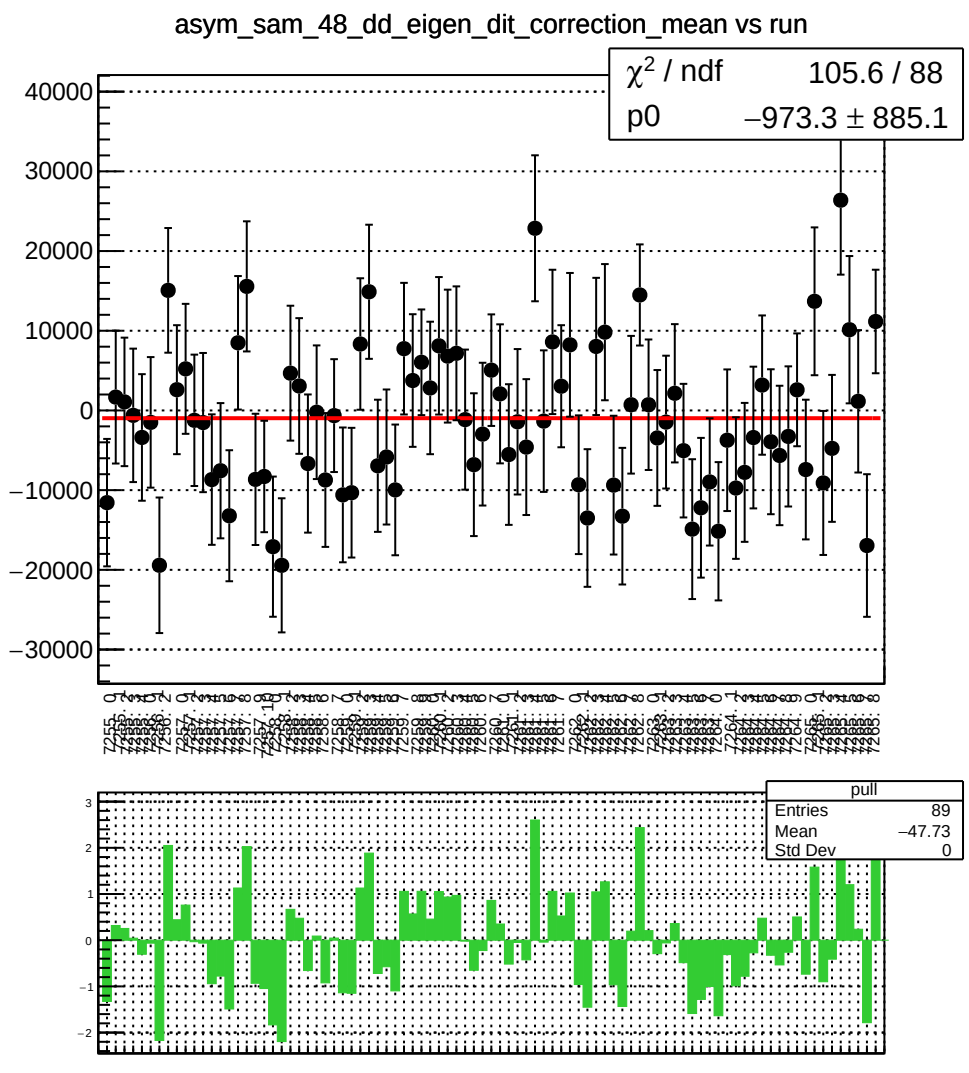

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 105.6 / 88
p0 −973.3 ± 885.1
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −47.74
Std Dev 0
3
2
1
0
−1
−2

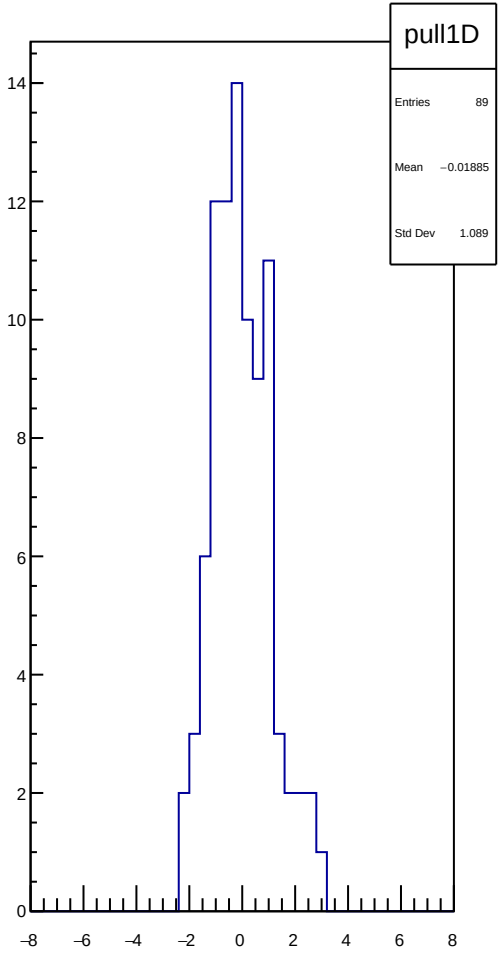

pull1D
Entries 89
Mean −0.01885
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

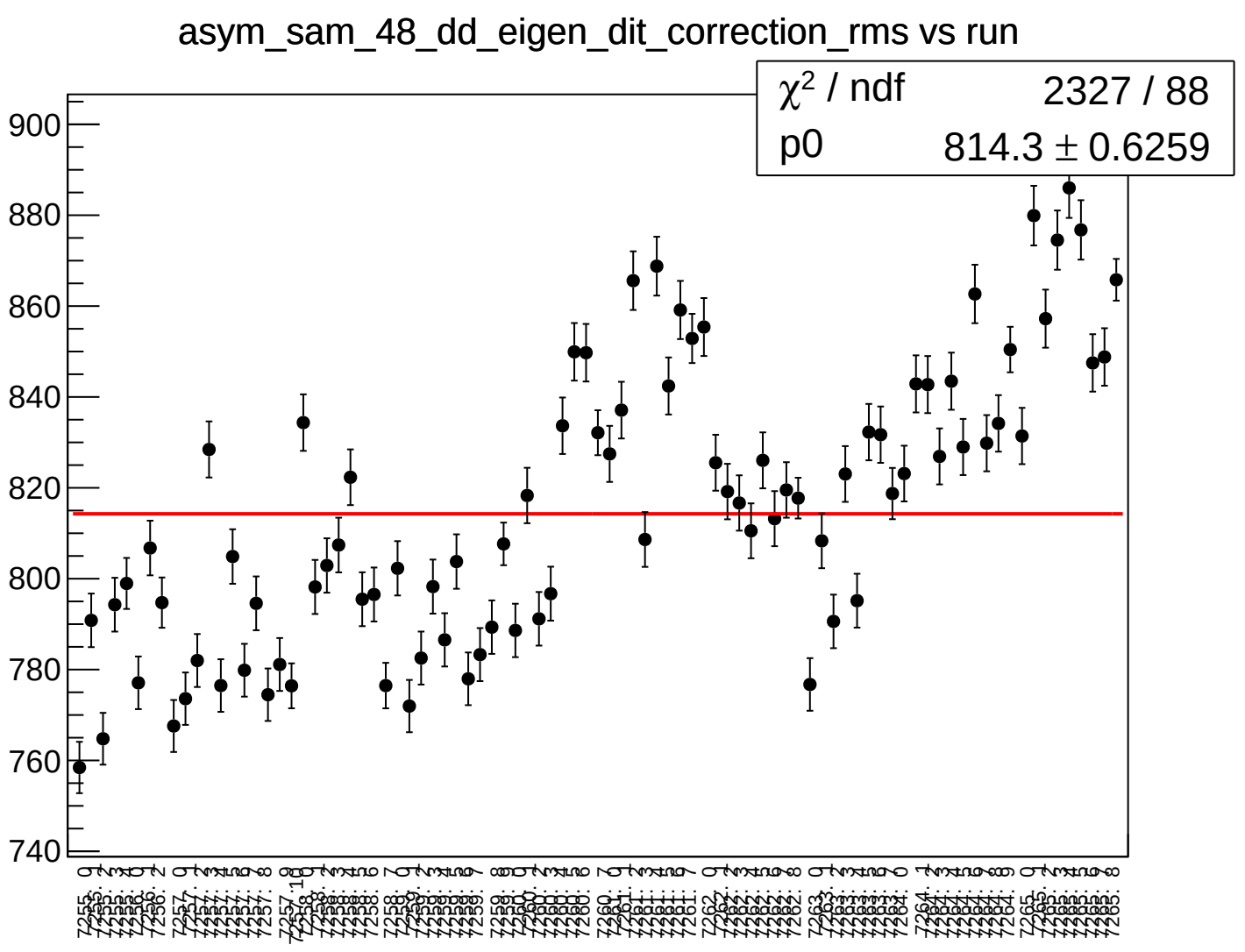

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 2327 / 88
p0 814.3 ± 0.6259
900
880
860
840
820
800
780
760
740

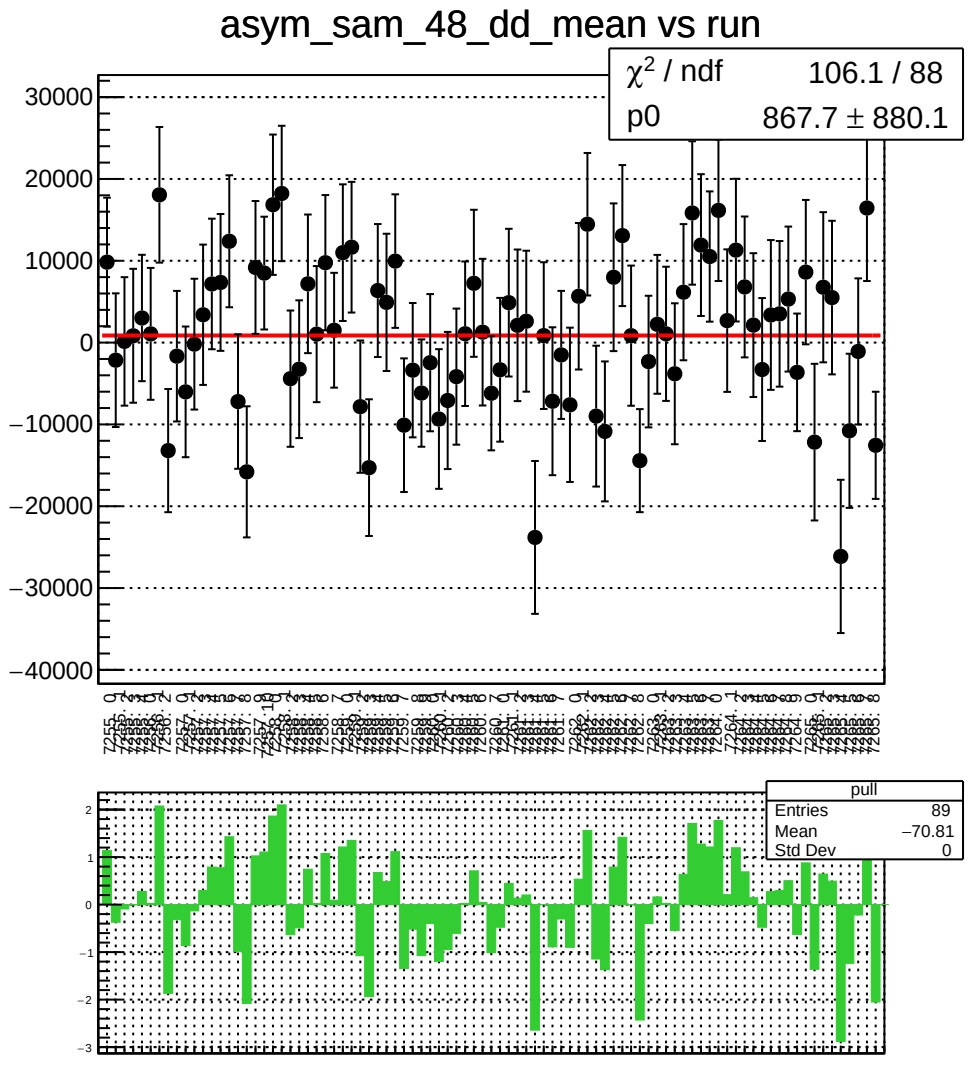

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 63.51 / 88
p0 −113.6 ± 141.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 205.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.008636
Std Dev 0.8447
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

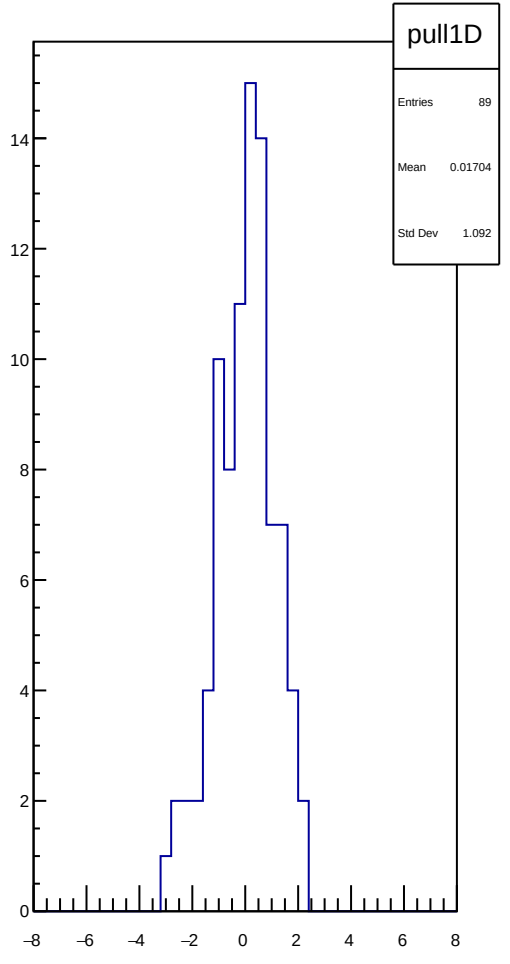

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 2.147e+04 / 88
p0 129.8 ± 0.1003
190
180
170
160
150
140
130
120
110

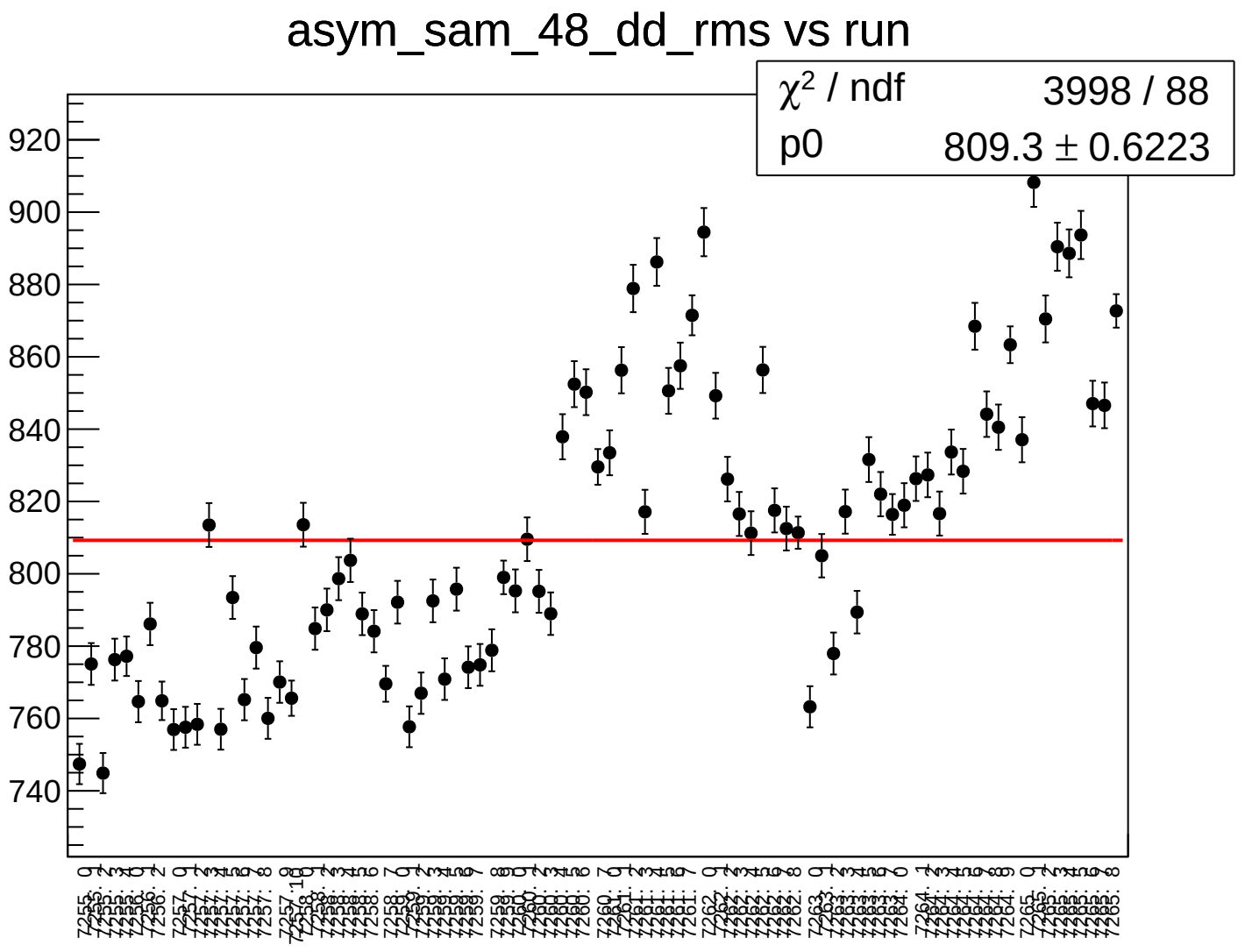

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 105.6 / 88
p0 −973.3 ± 885.1
pull
Entries 89
Mean −47.73
Std Dev 0

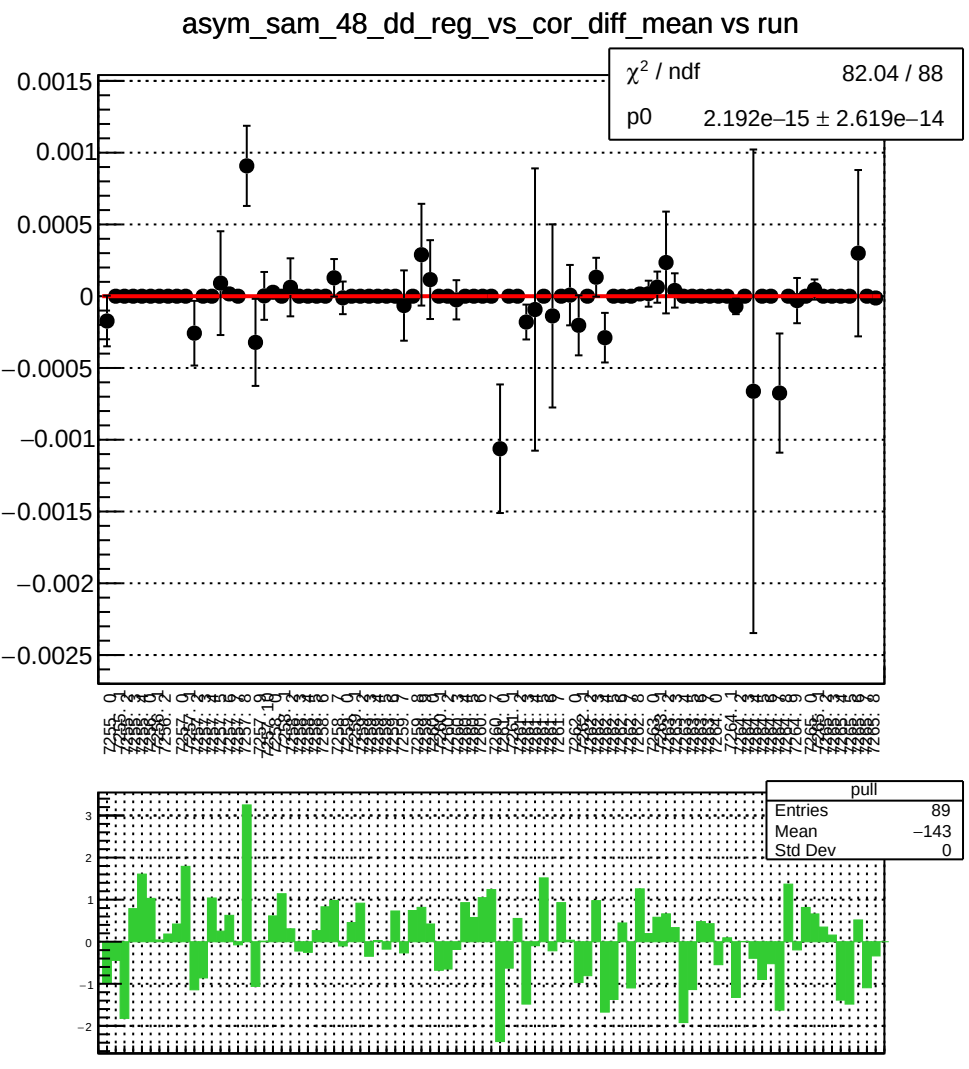

pull1D
Entries 89
Mean −0.01885
Std Dev 1.089

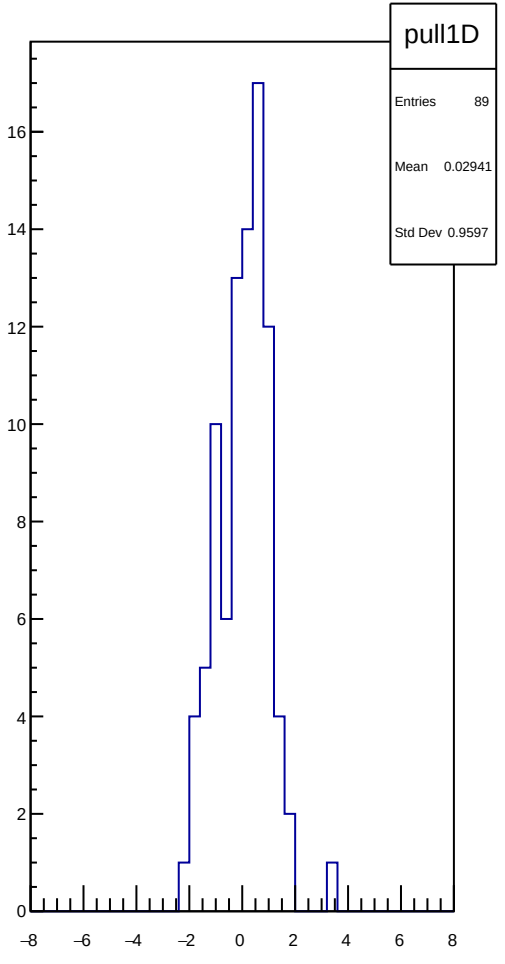

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2327 / 88
p0 814.3 ± 0.6259
900
880
860
840
820
800
780
760
740

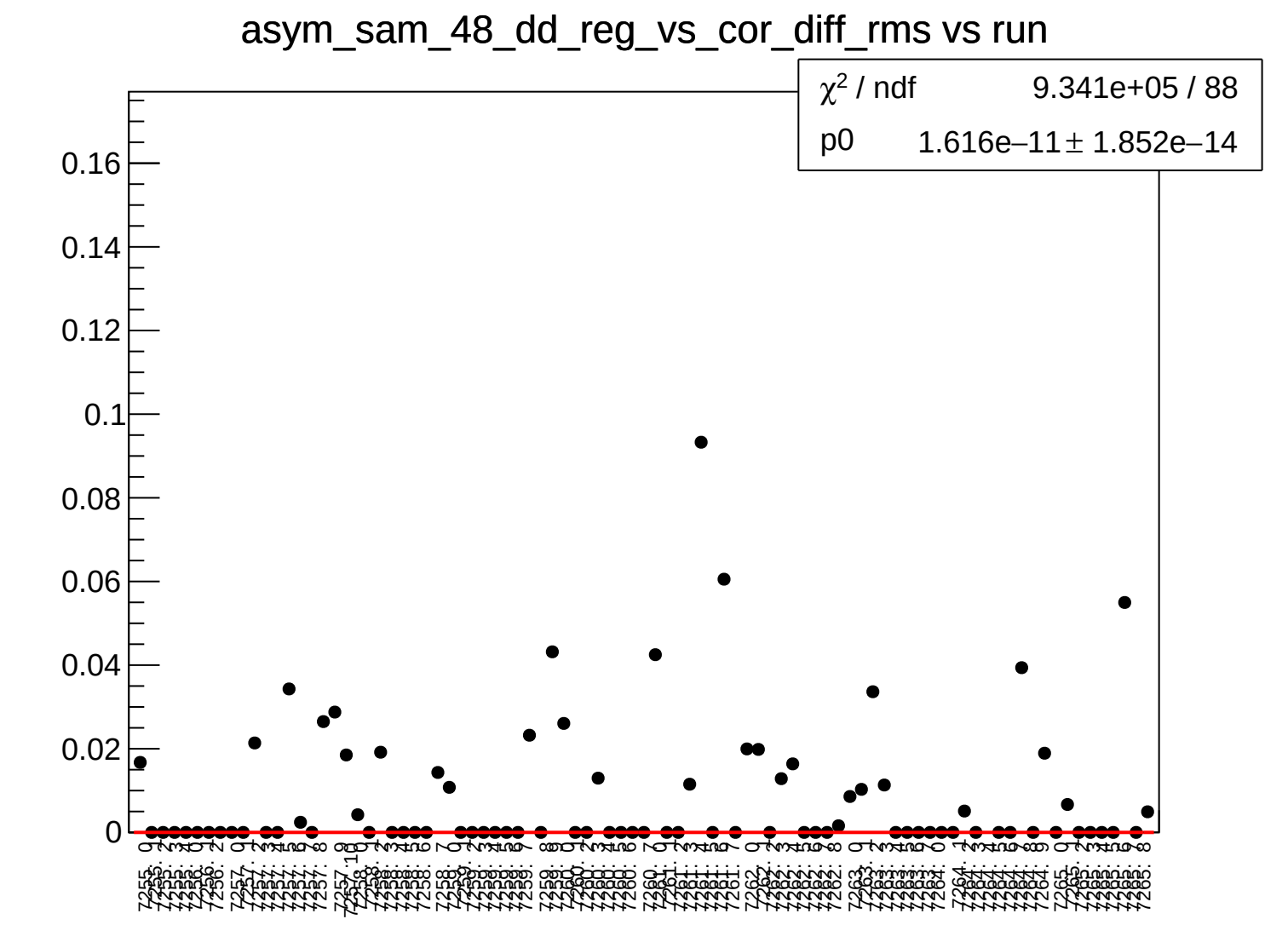

asym_sam_48_dd_mean vs run
χ² / ndf 106.1 / 88
p0 867.7 ± 880.1
pull
Entries 89
Mean −70.81
Std Dev 0

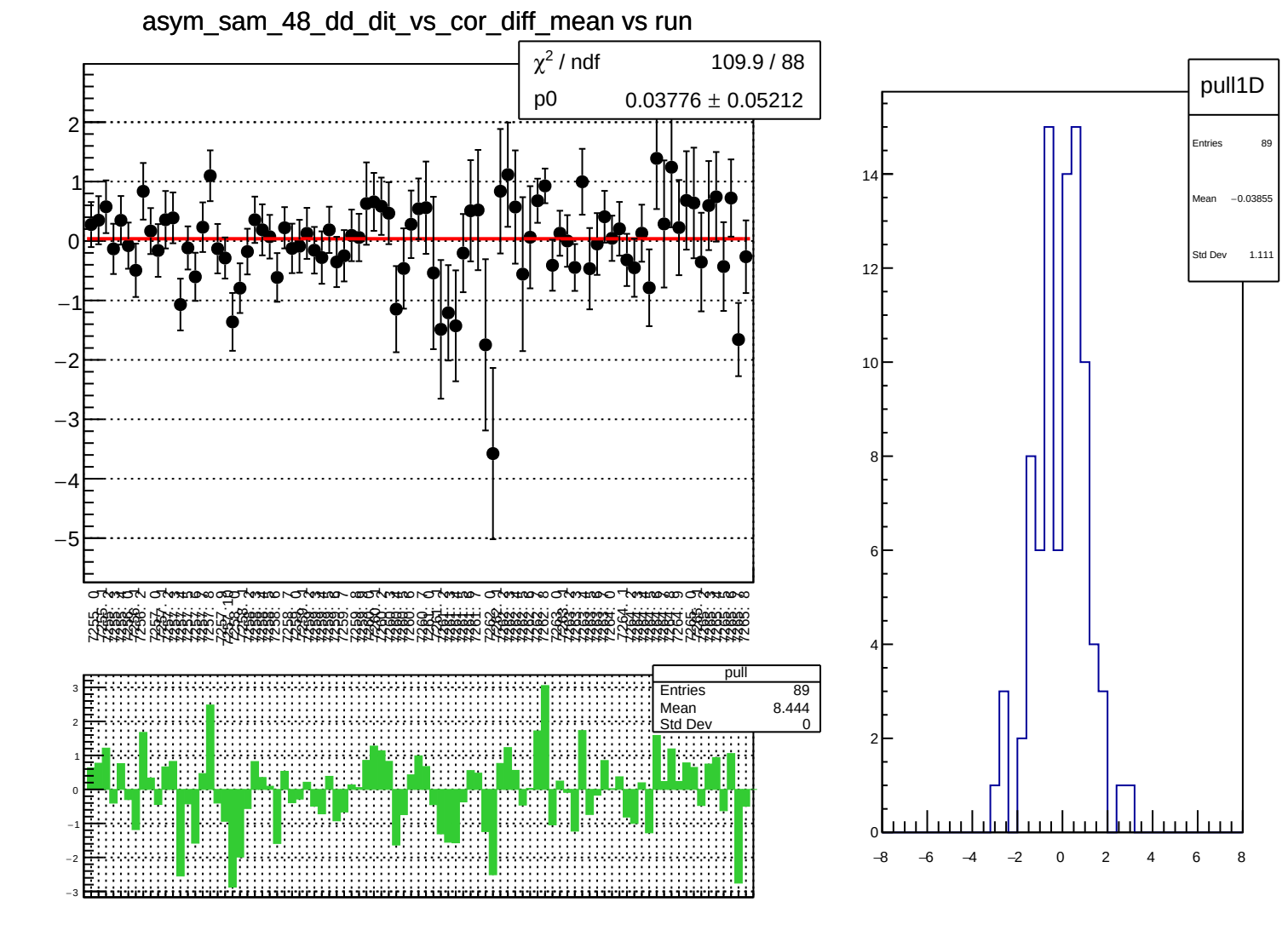

pull1D
Entries 89
Mean 0.01704
Std Dev 1.092

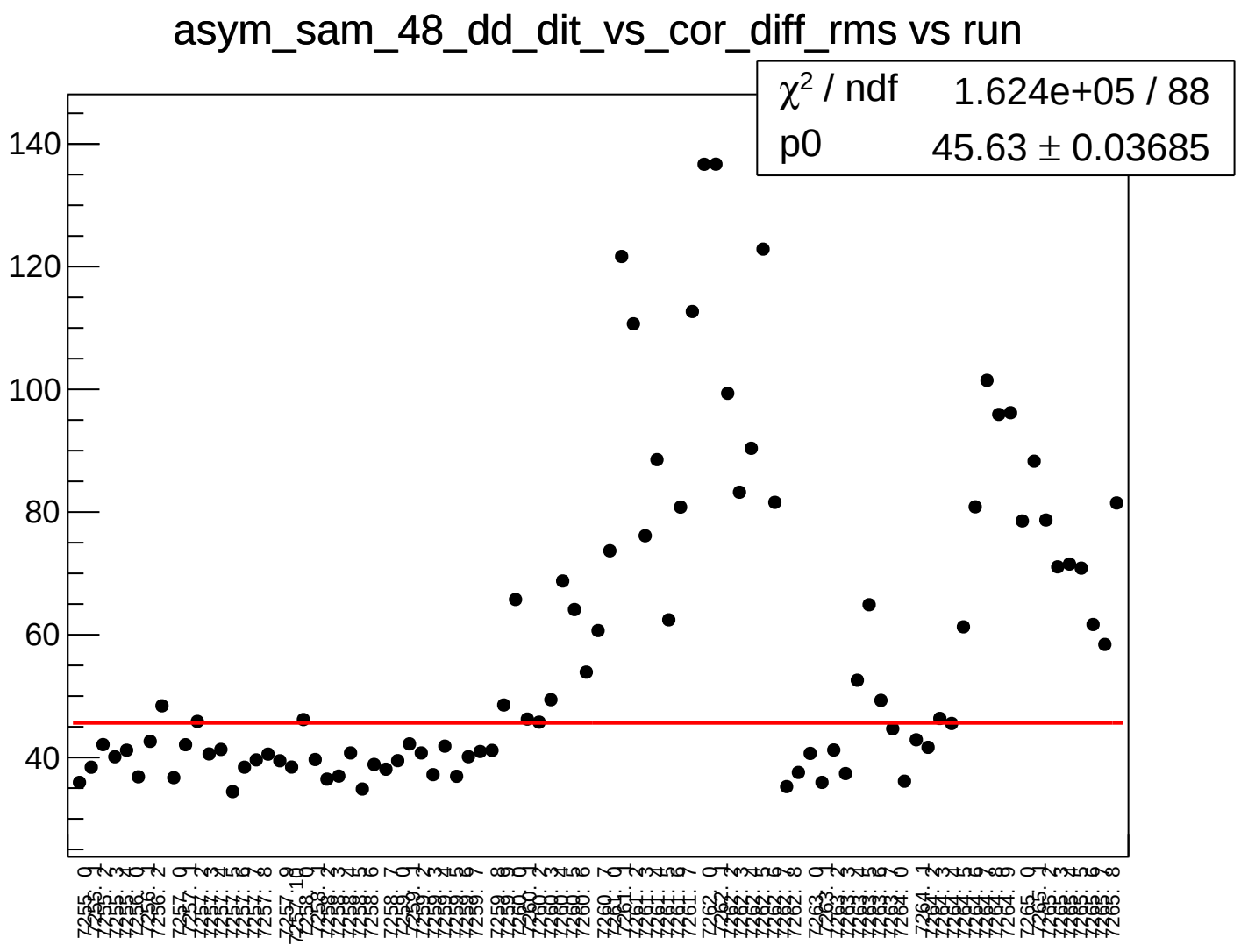

asym_sam_48_dd_rms vs run
χ² / ndf 3998 / 88
p0 809.3 ± 0.6223
920
900
880
860
840
820
800
780
760
740

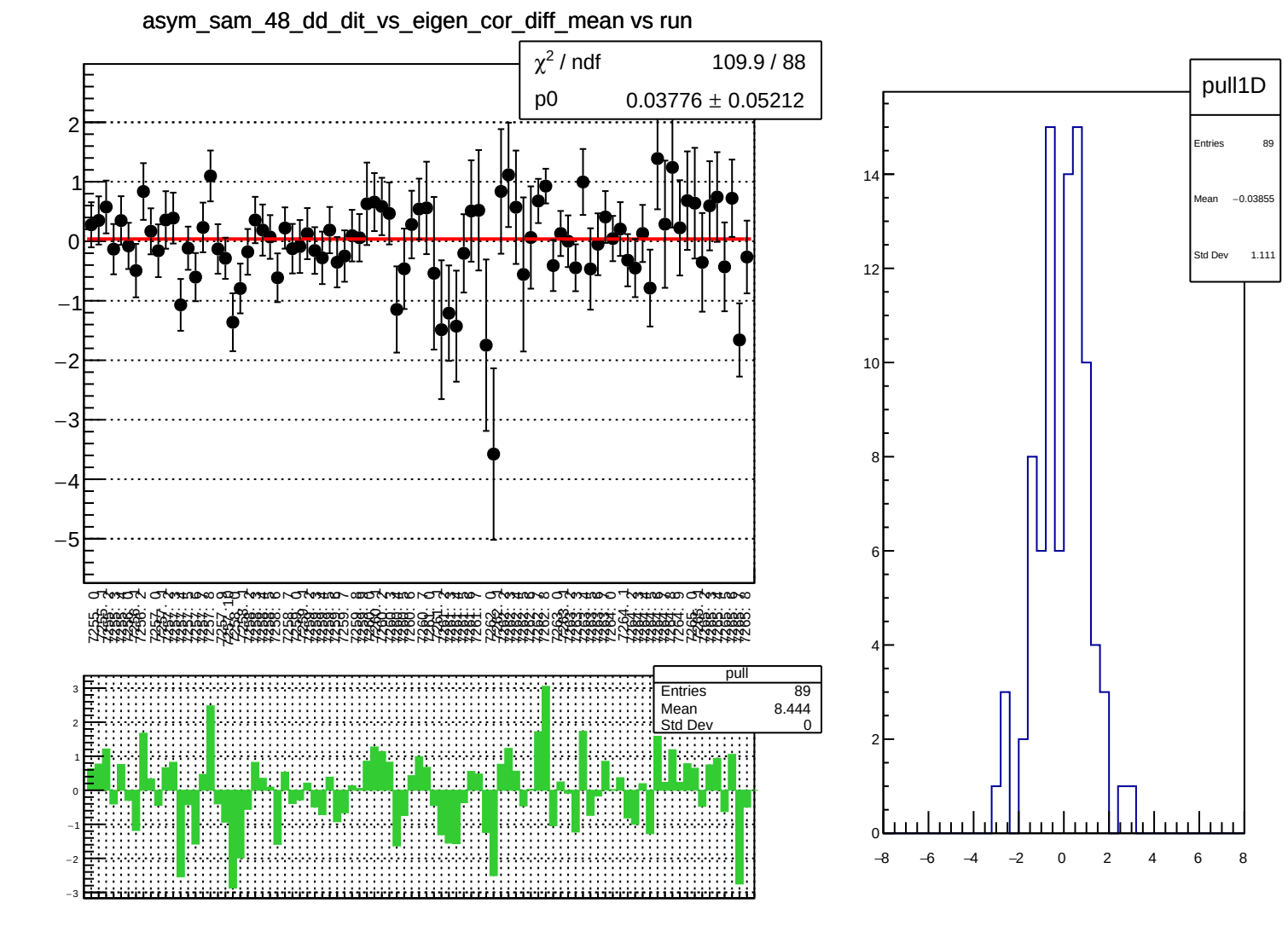

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.04 / 88
p0 2.192e−15 ± 2.619e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 89
Mean −143
Std Dev 0
3
2
1
0
−1
−2

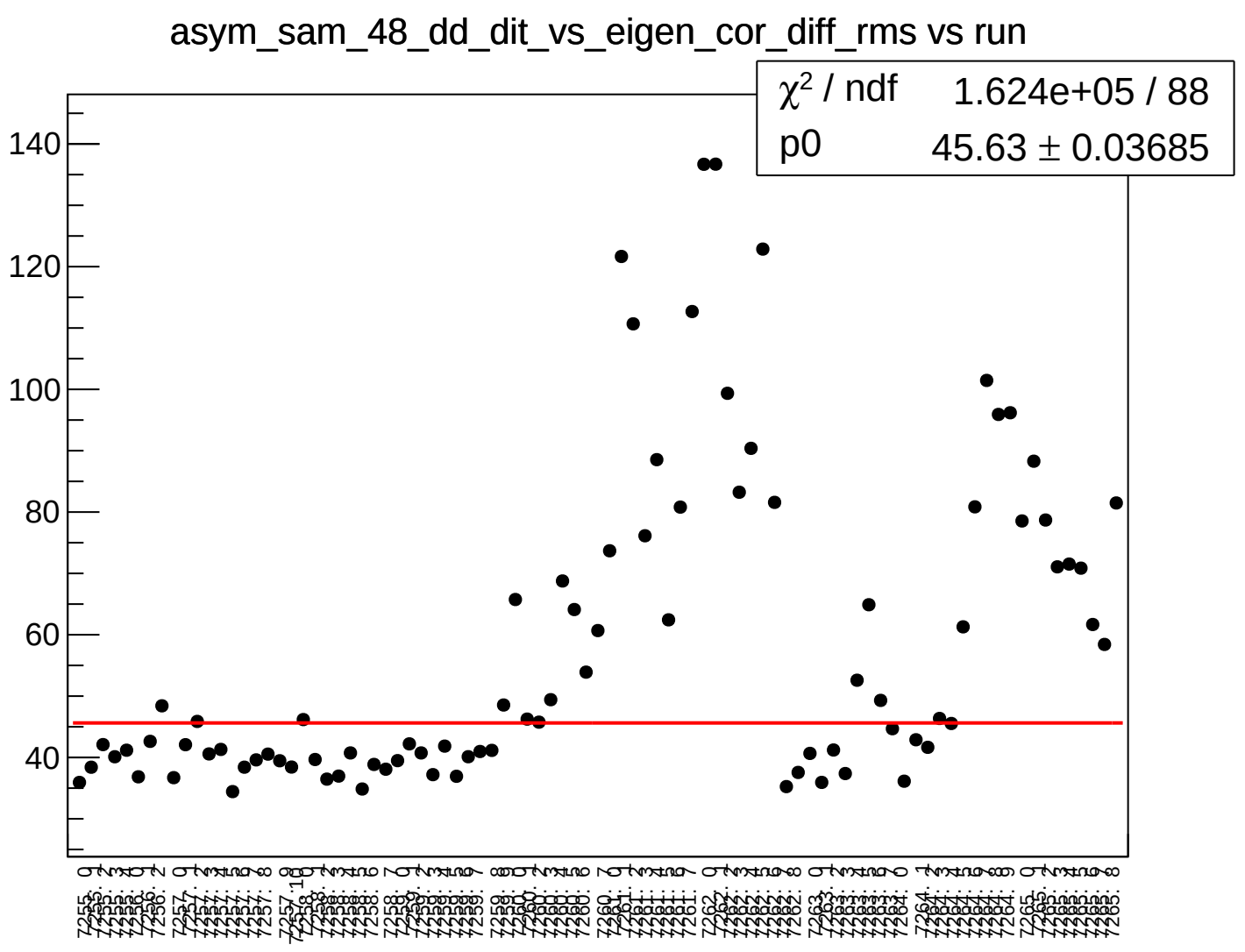

pull1D
Entries 89
Mean 0.02941
Std Dev 0.9597
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

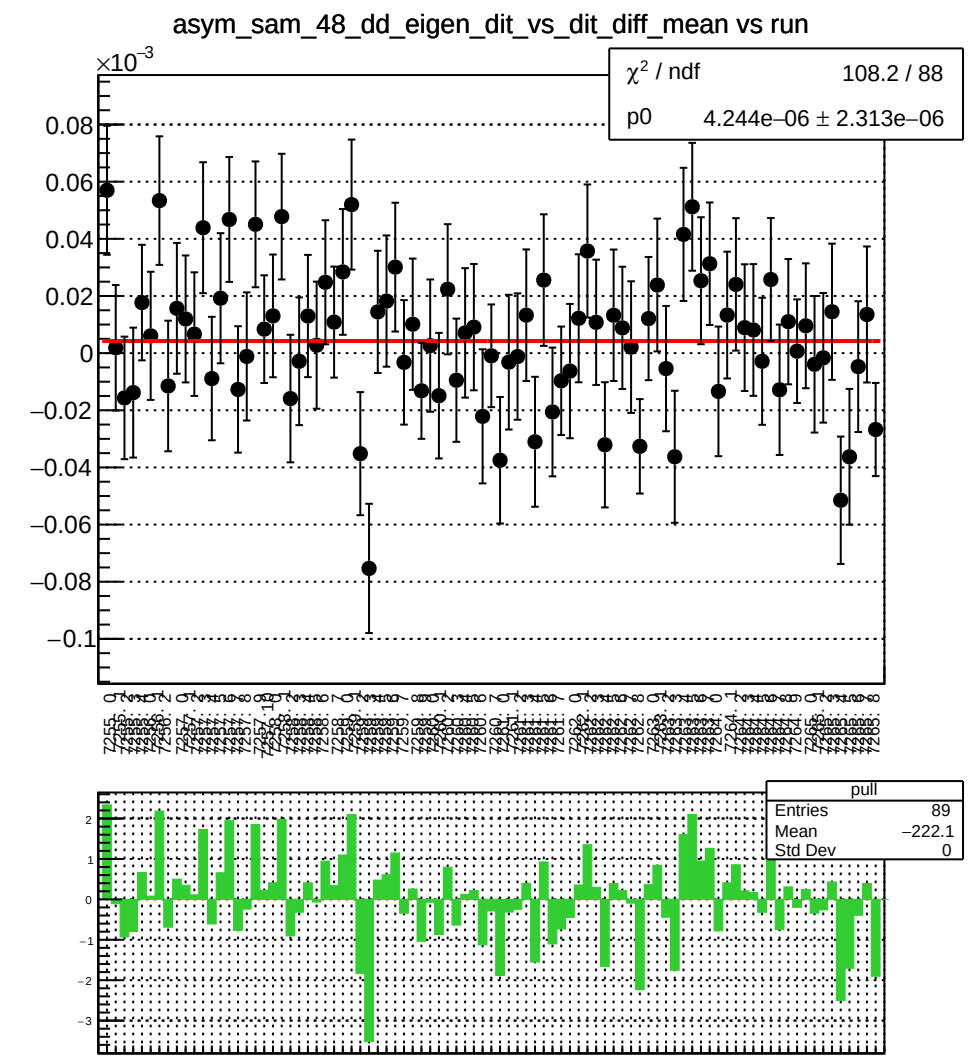

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.341e+05 / 88
p0 1.616e−11 ± 1.852e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

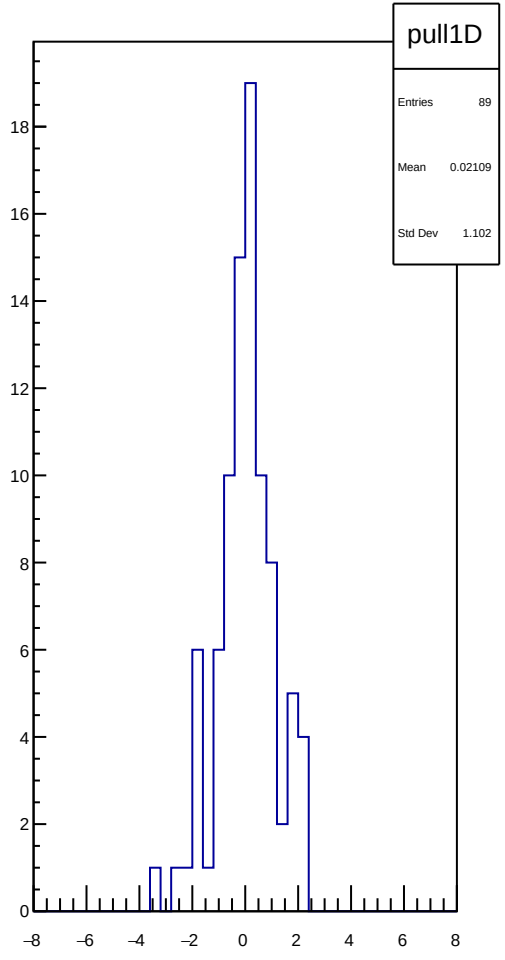

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.9 / 88
p0 0.03776 ± 0.05212
pull
Entries 89
Mean 8.444
Std Dev 0
pull1D
Entries 89
Mean −0.03855
Std Dev 1.111

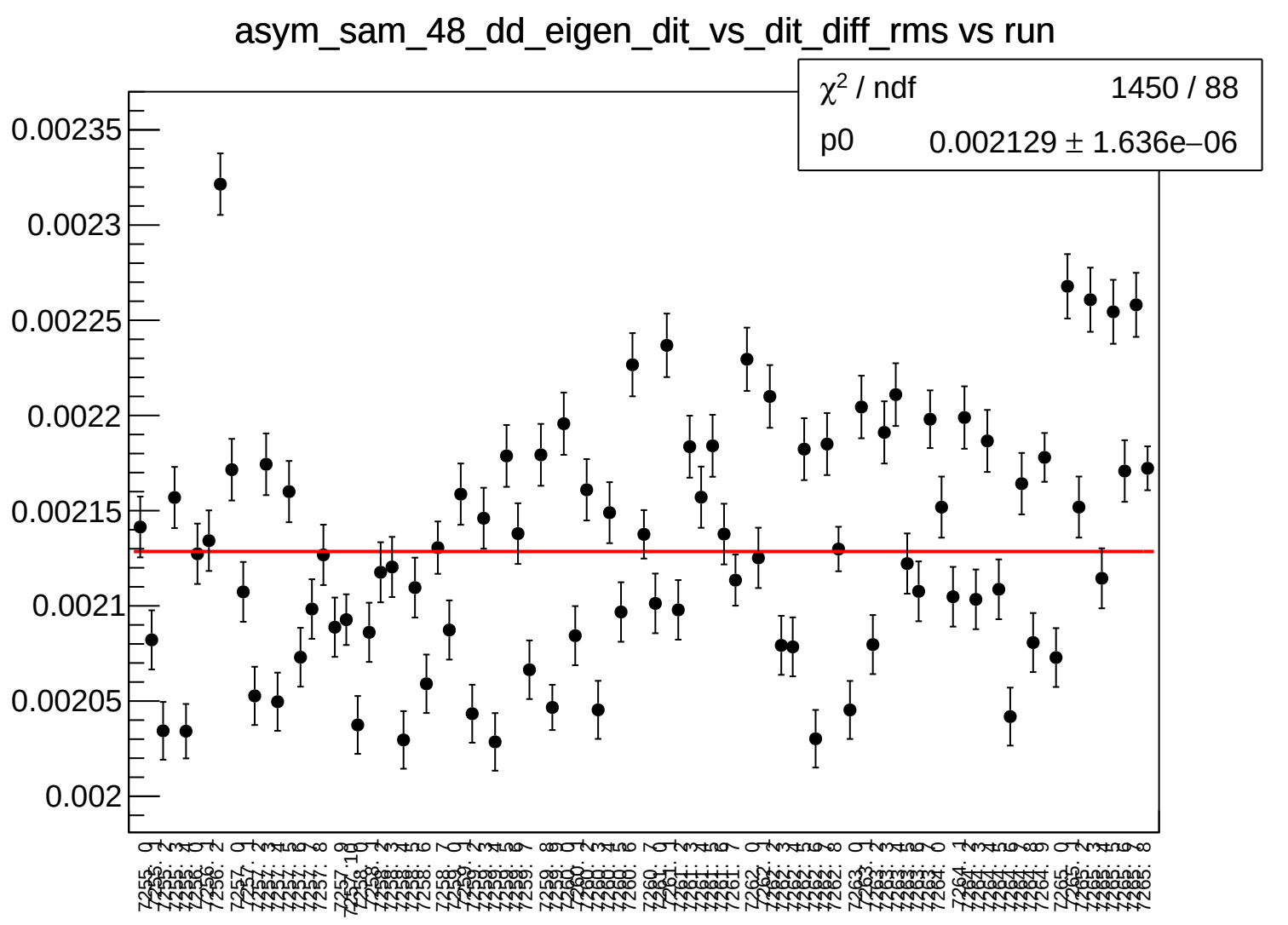

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.624e+05 / 88
p0 45.63 ± 0.03685
140
120
100
80
60
40

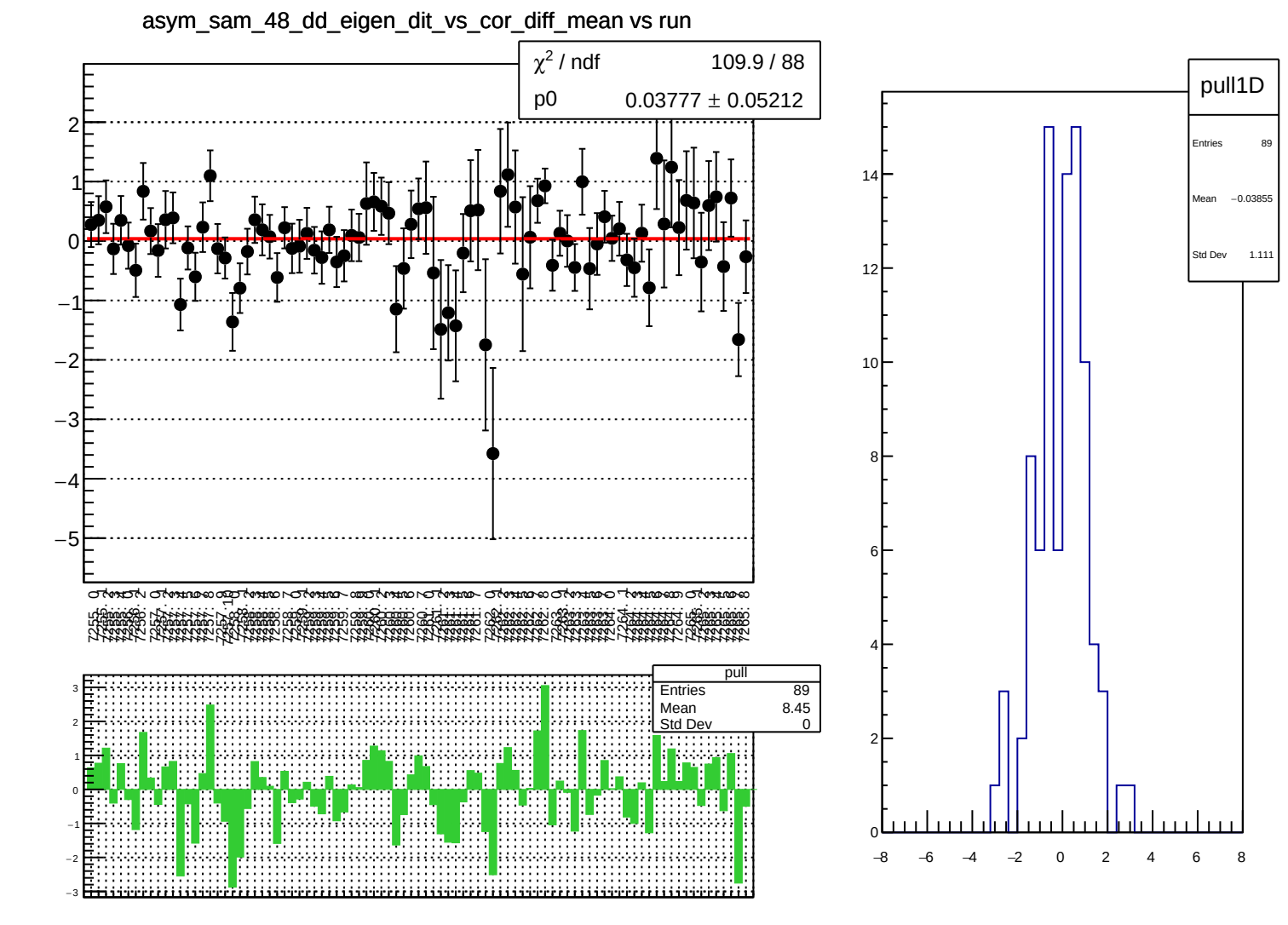

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.9 / 88
p0 0.03776 ± 0.05212
pull
Entries 89
Mean 8.444
Std Dev 0
pull1D
Entries 89
Mean −0.03855
Std Dev 1.111

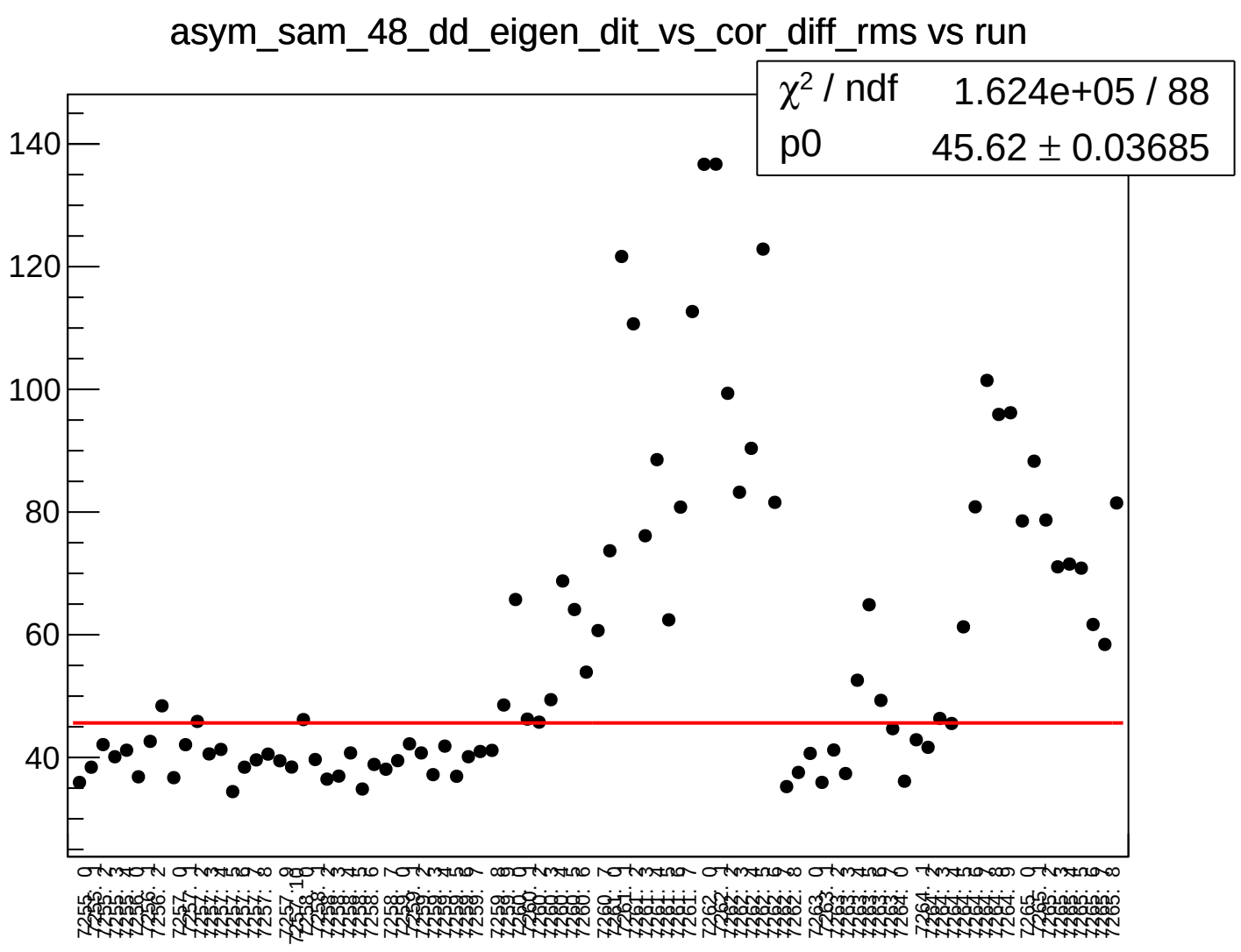

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.624e+05 / 88
p0 45.63 ± 0.03685
140
120
100
80
60
40

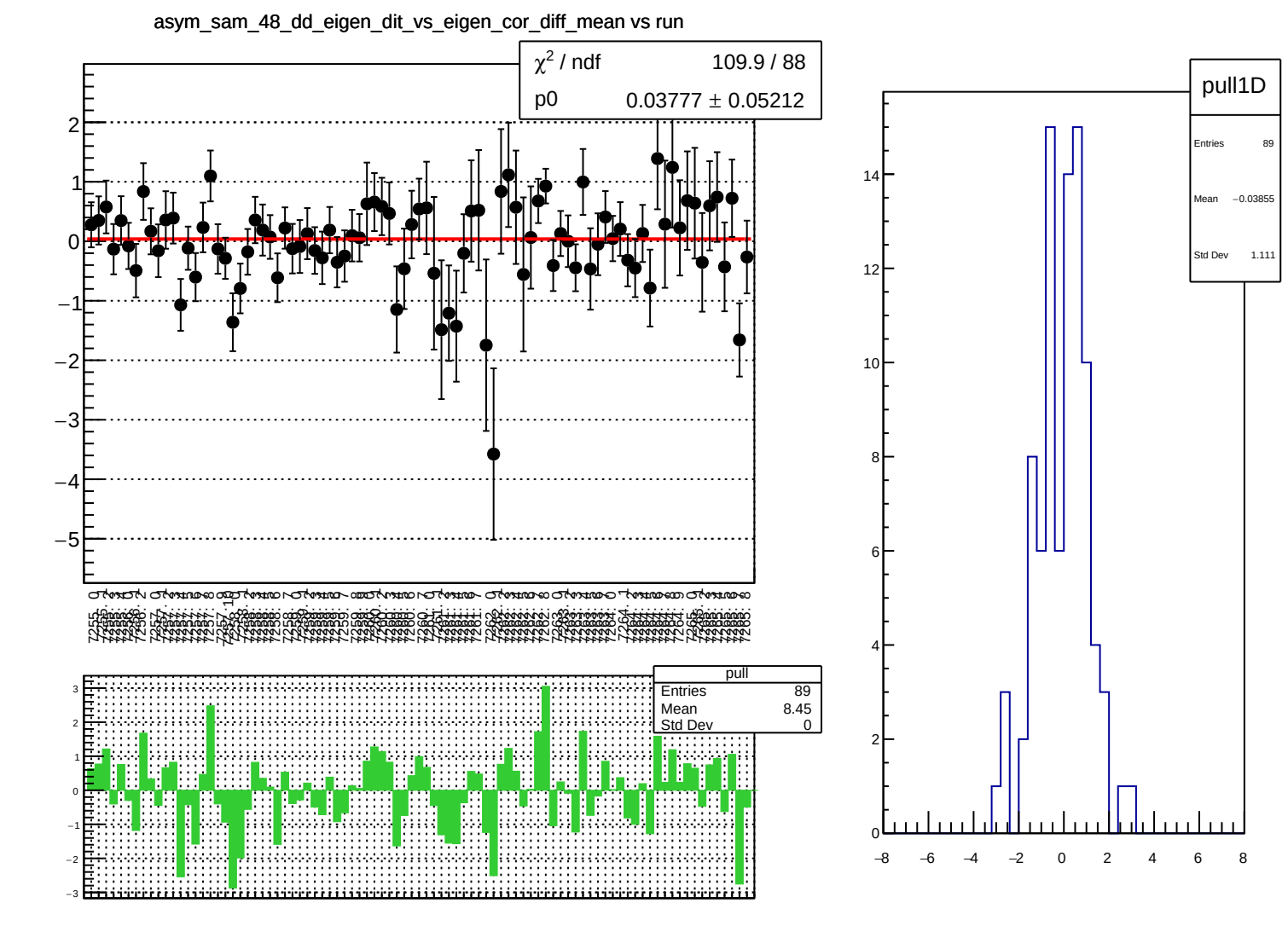

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.2 / 88
p0 4.244e−06 ± 2.313e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 89
Mean −222.1
Std Dev 0
2
1
0
−1
−2
−3

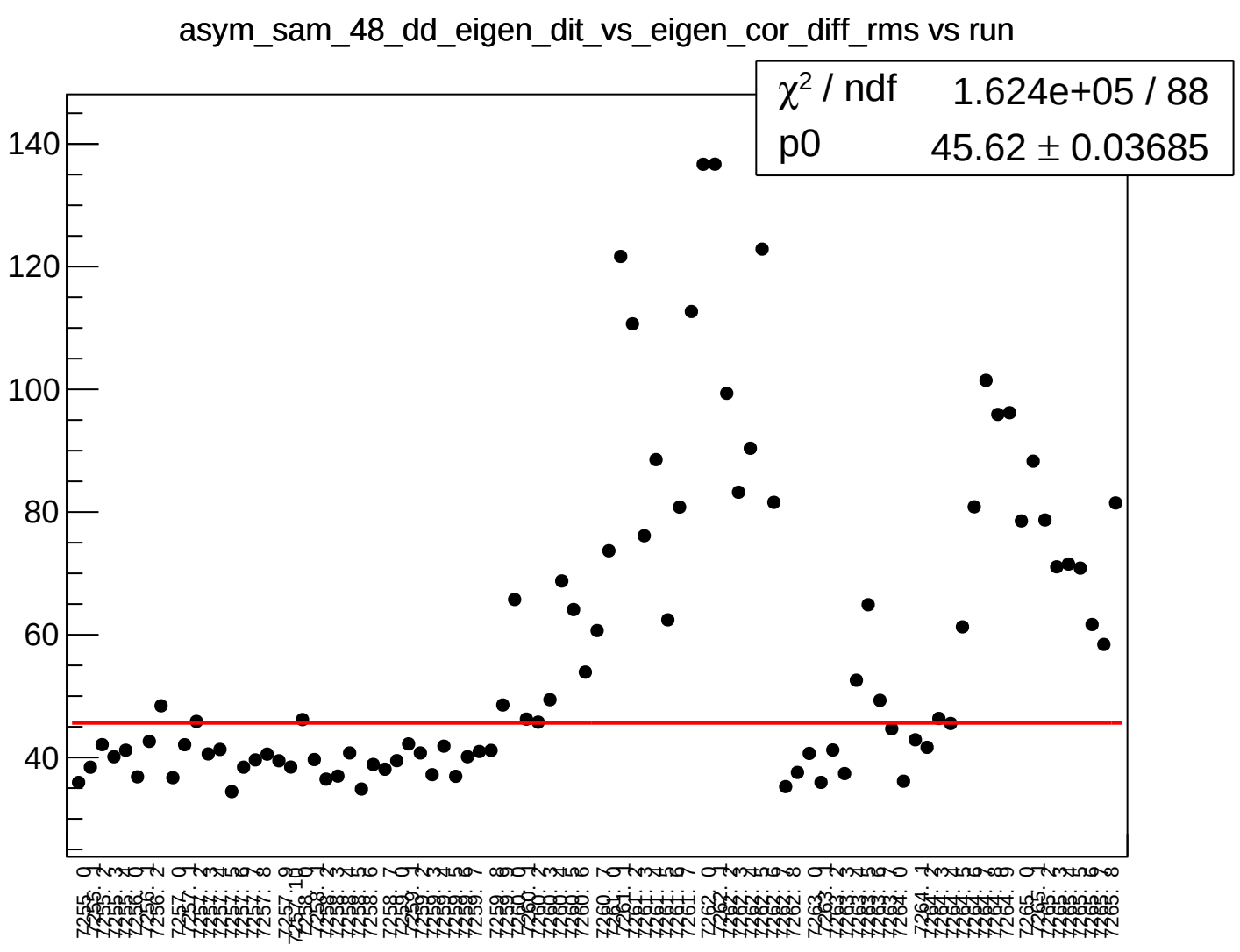

pull1D
Entries 89
Mean 0.02109
Std Dev 1.102
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

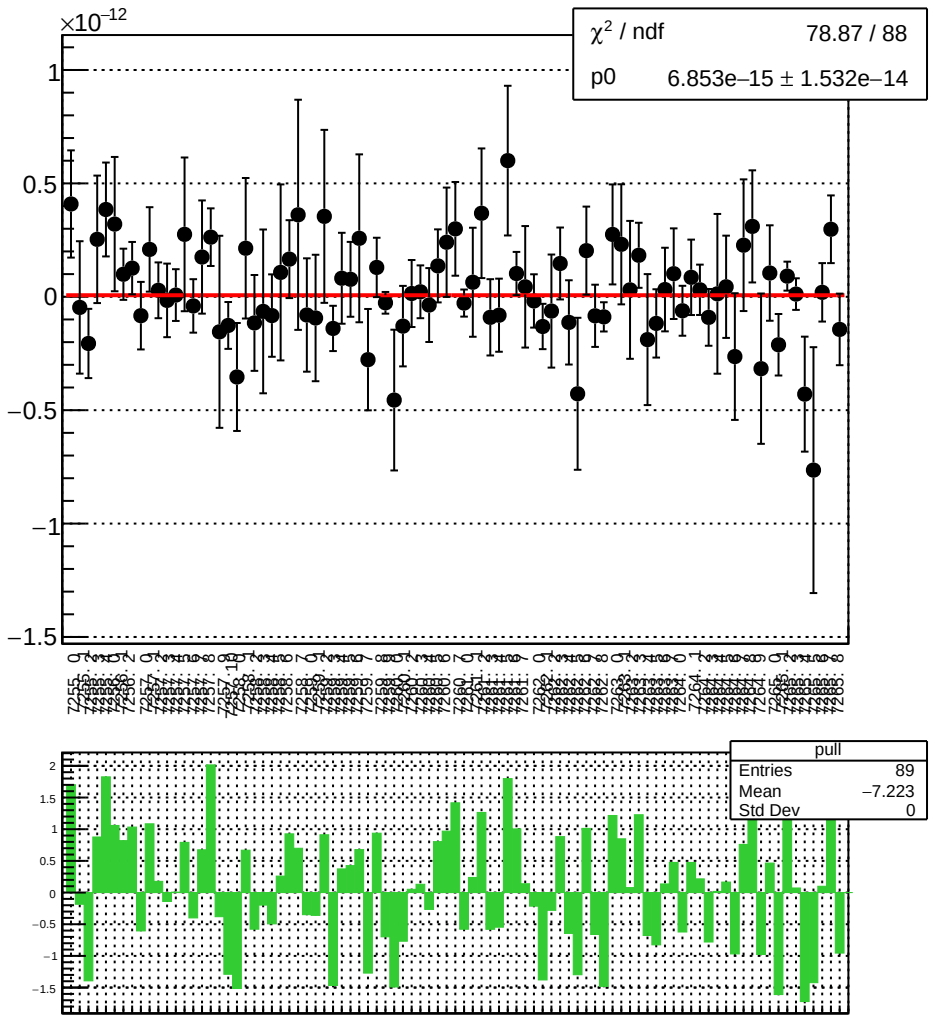

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1450 / 88
p0 0.002129 ± 1.636e−06
0.00235
0.0023
0.00225
0.0022
0.00215
0.0021
0.00205
0.002

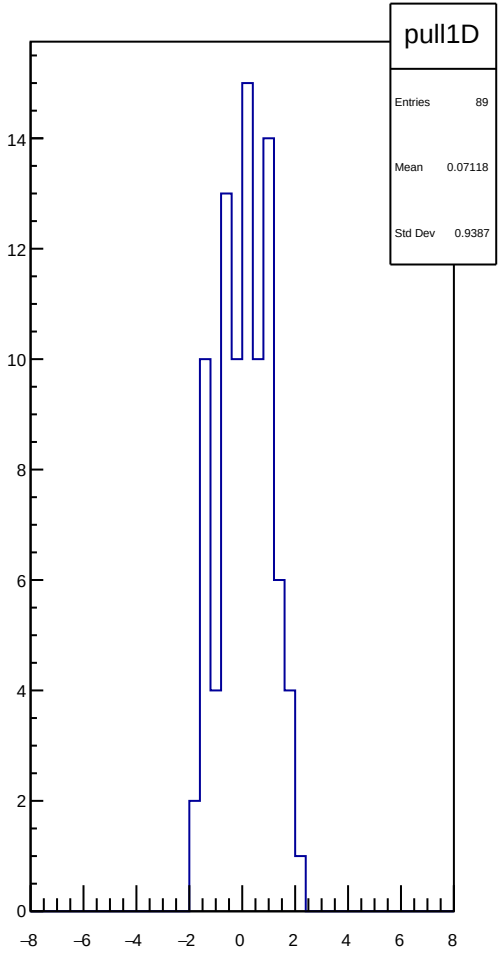

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.9 / 88
p0 0.03777 ± 0.05212
pull
Entries 89
Mean 8.45
Std Dev 0
pull1D
Entries 89
Mean −0.03855
Std Dev 1.111

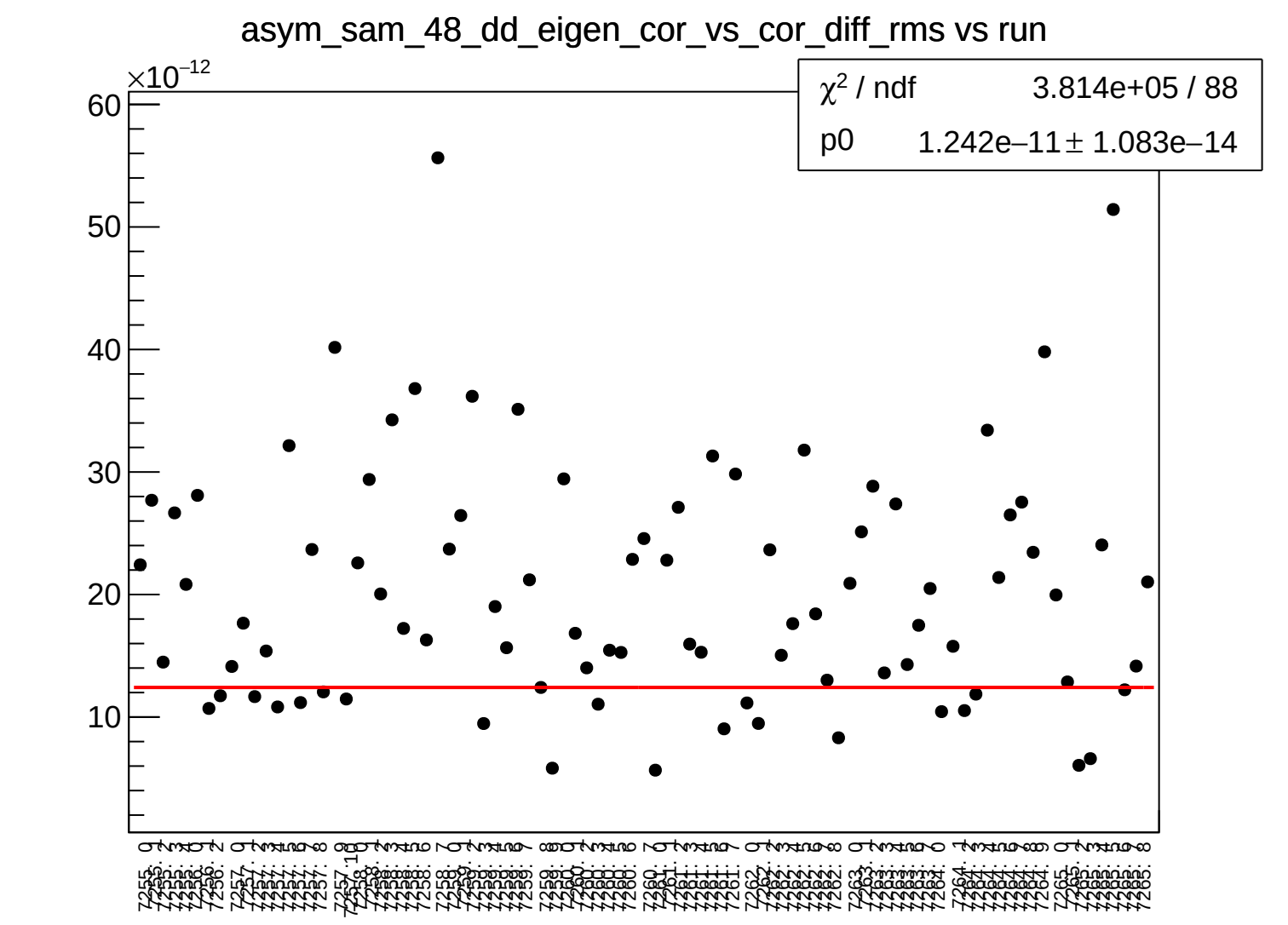

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.624e+05 / 88
p0 45.62 ± 0.03685
140
120
100
80
60
40

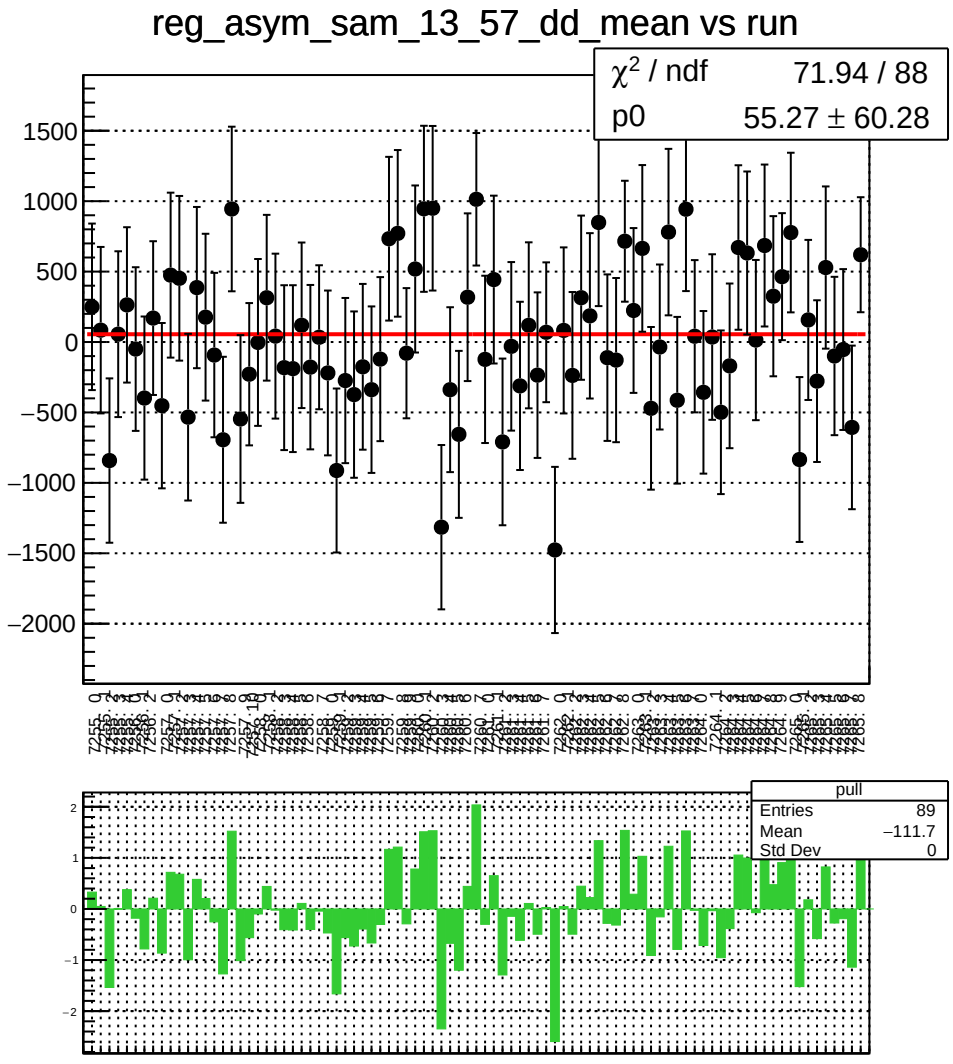

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.9 / 88
p0 0.03777 ± 0.05212
pull
Entries 89
Mean 8.45
Std Dev 0
pull1D
Entries 89
Mean −0.03855
Std Dev 1.111

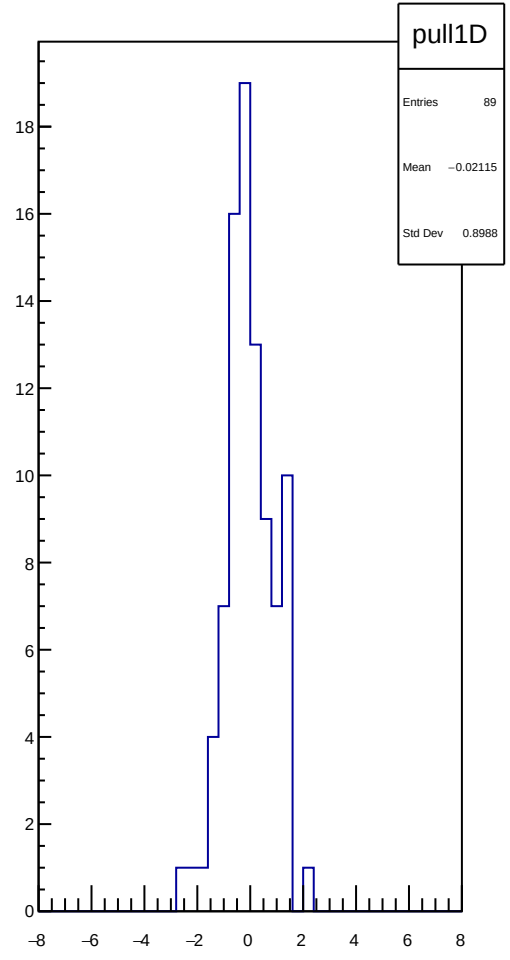

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.624e+05 / 88
p0 45.62 ± 0.03685
140
120
100
80
60
40

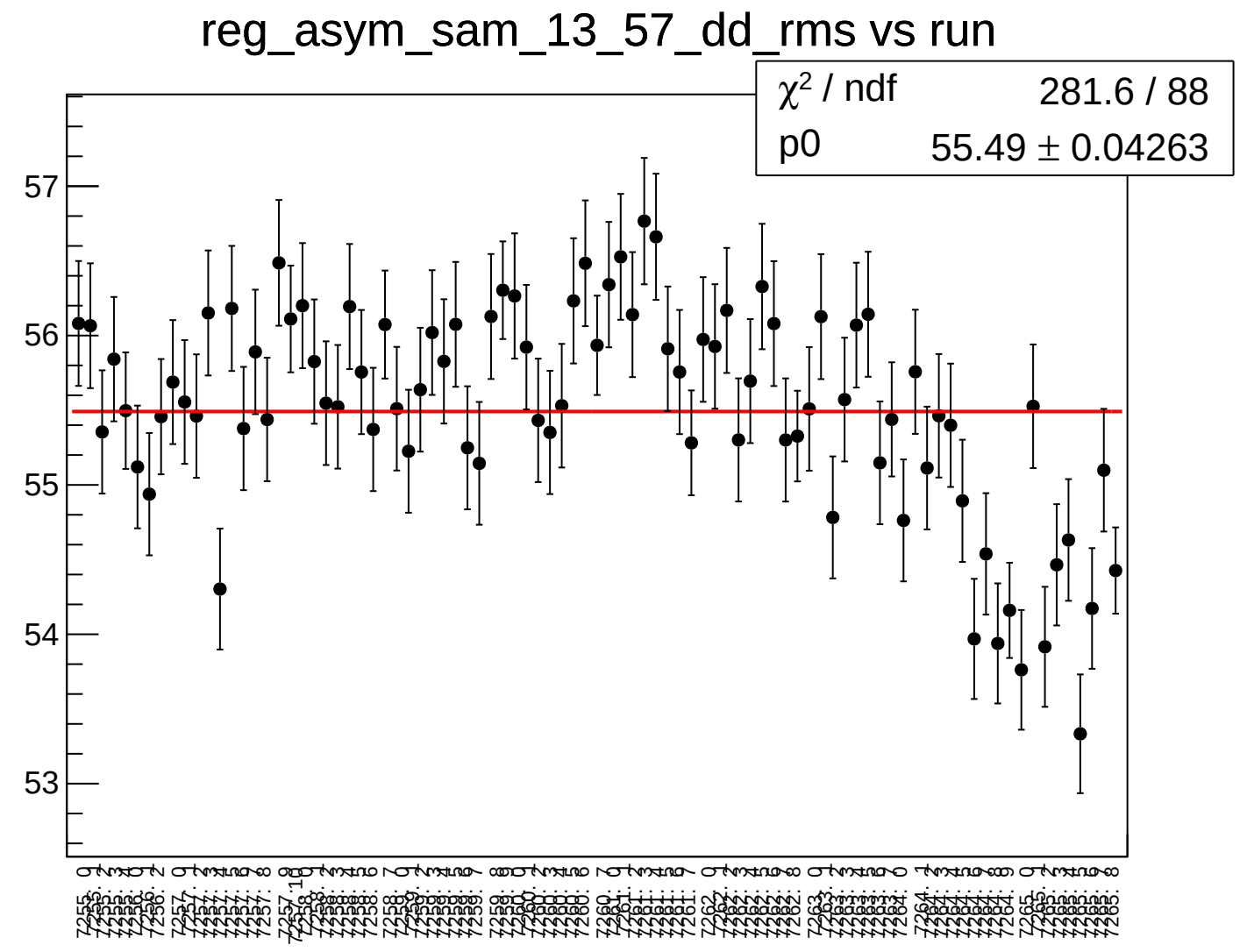

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.87 / 88
p0 6.853e−15 ± 1.532e−14
pull
Entries 89
Mean −7.223
Std Dev 0

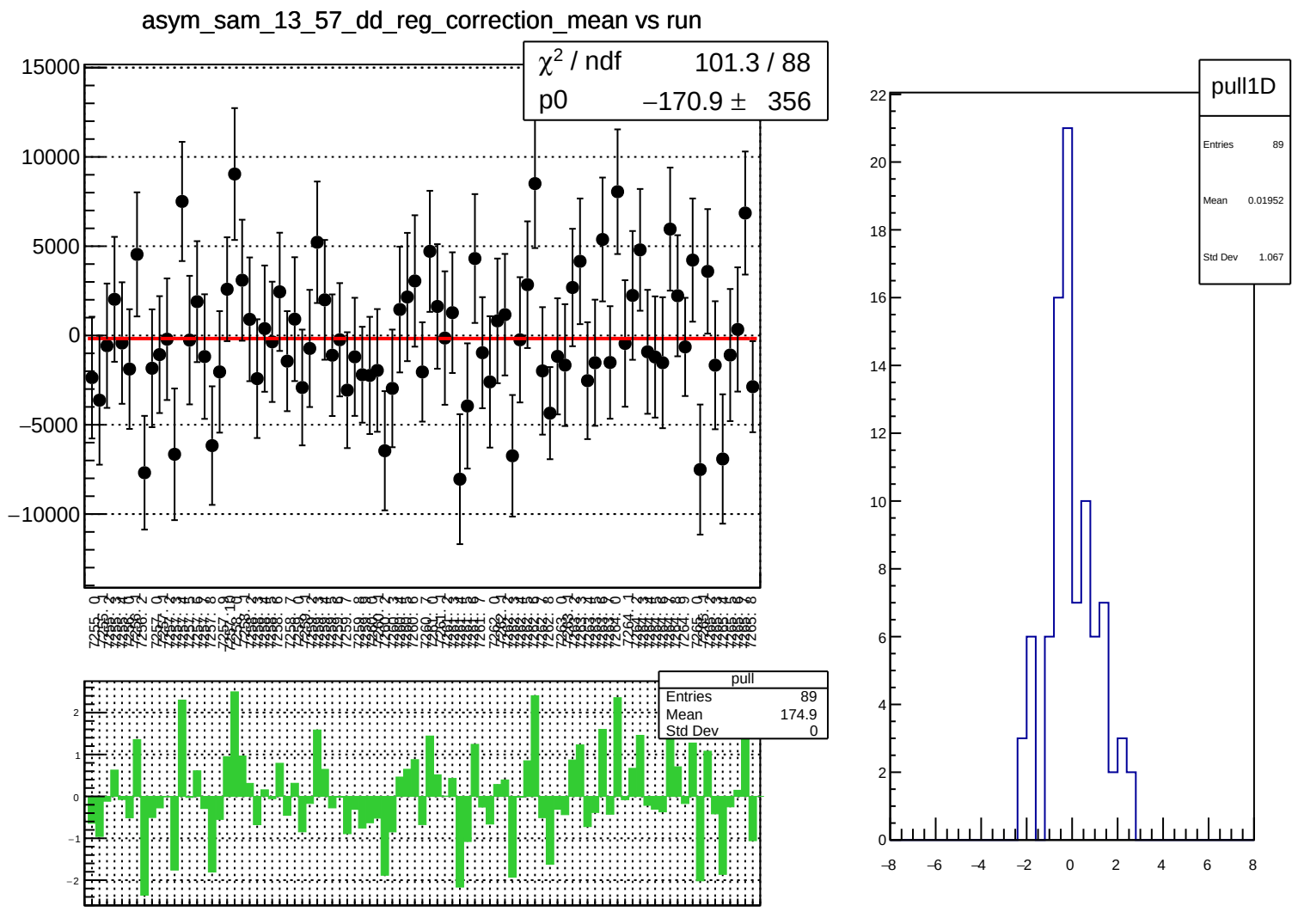

pull1D
Entries 89
Mean 0.07118
Std Dev 0.9387

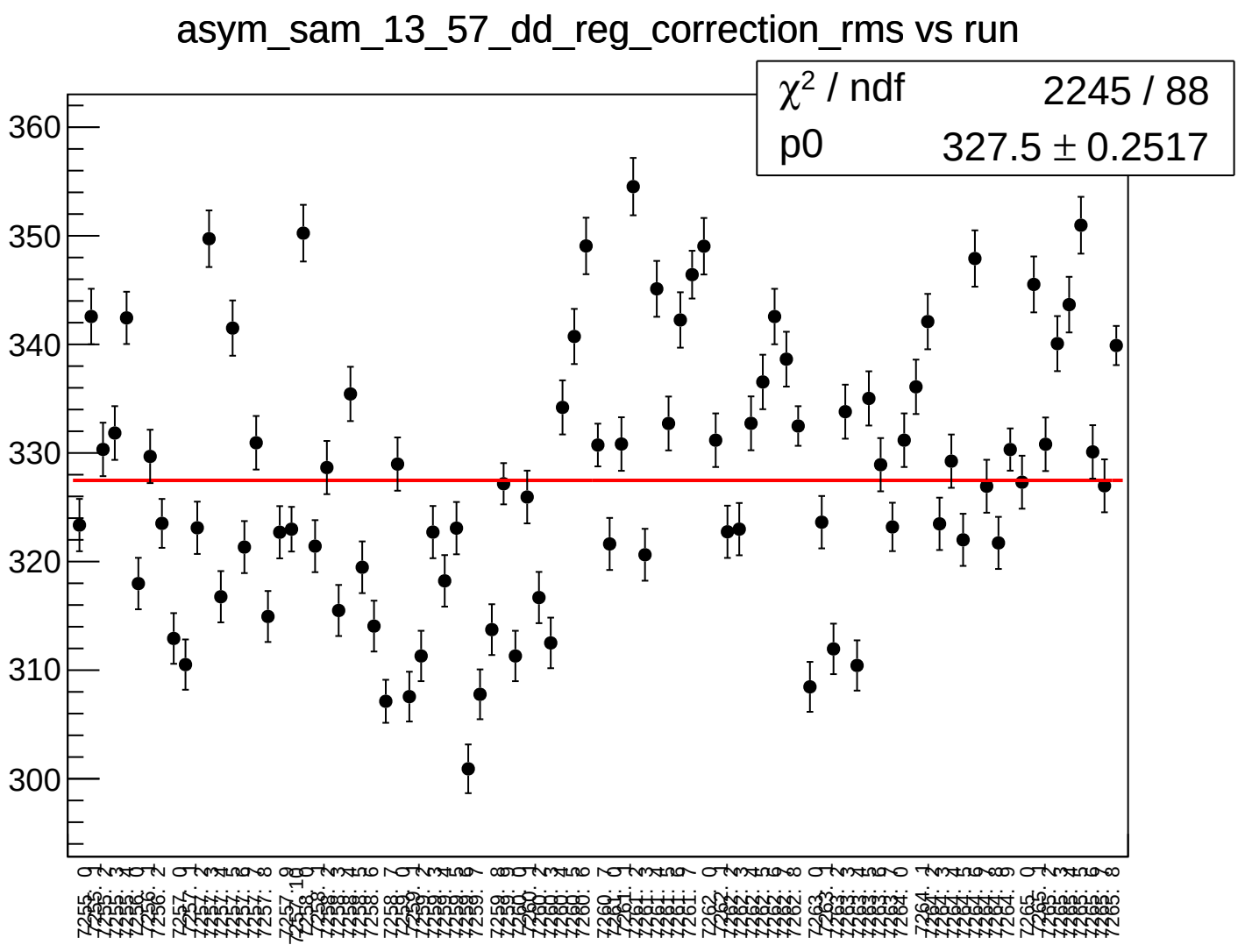

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.814e+05 / 88
p0 1.242e−11 ± 1.083e−14
60
50
40
30
20
10

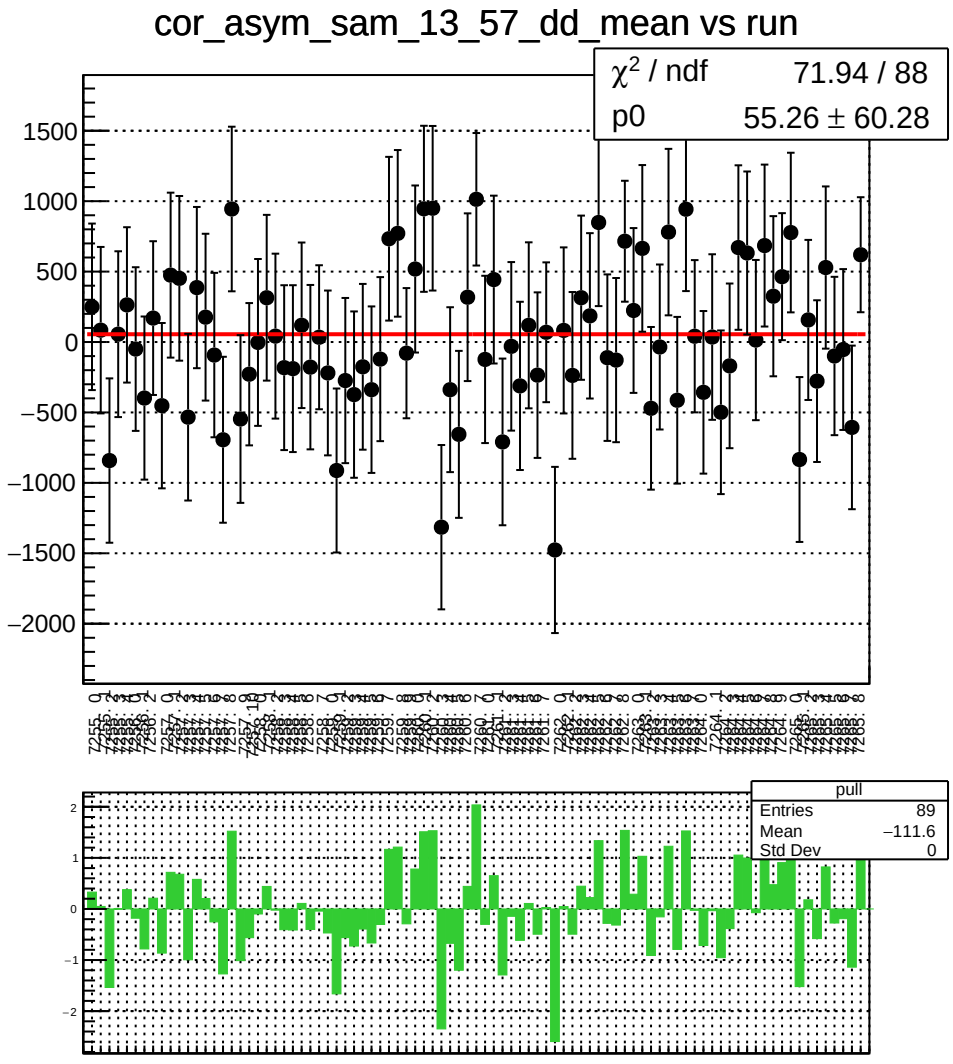

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 71.94 / 88
p0 55.27 ± 60.28
pull
Entries 89
Mean −111.7
Std Dev 0

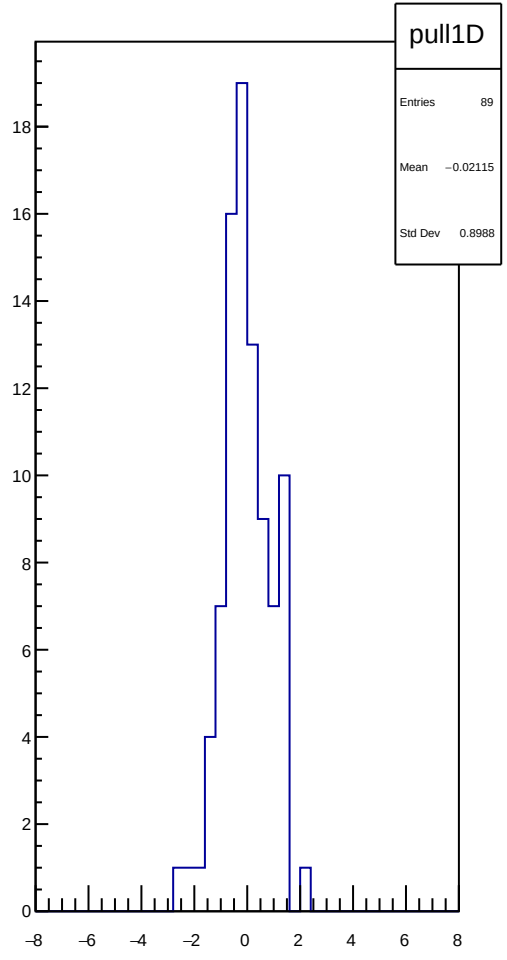

pull1D
Entries 89
Mean −0.02115
Std Dev 0.8988

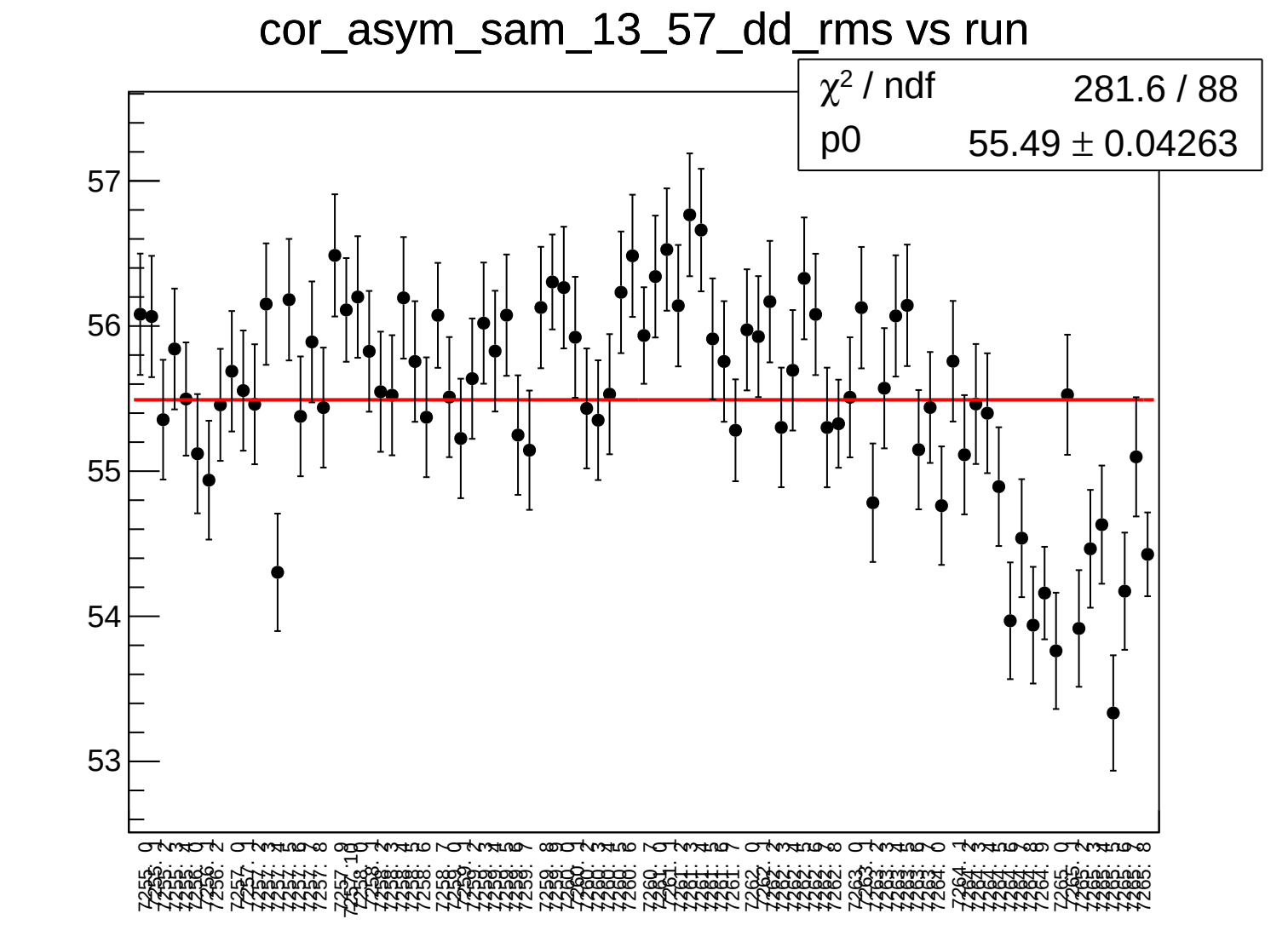

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 281.6 / 88
p0 55.49 ± 0.04263
57
56
55
54
53

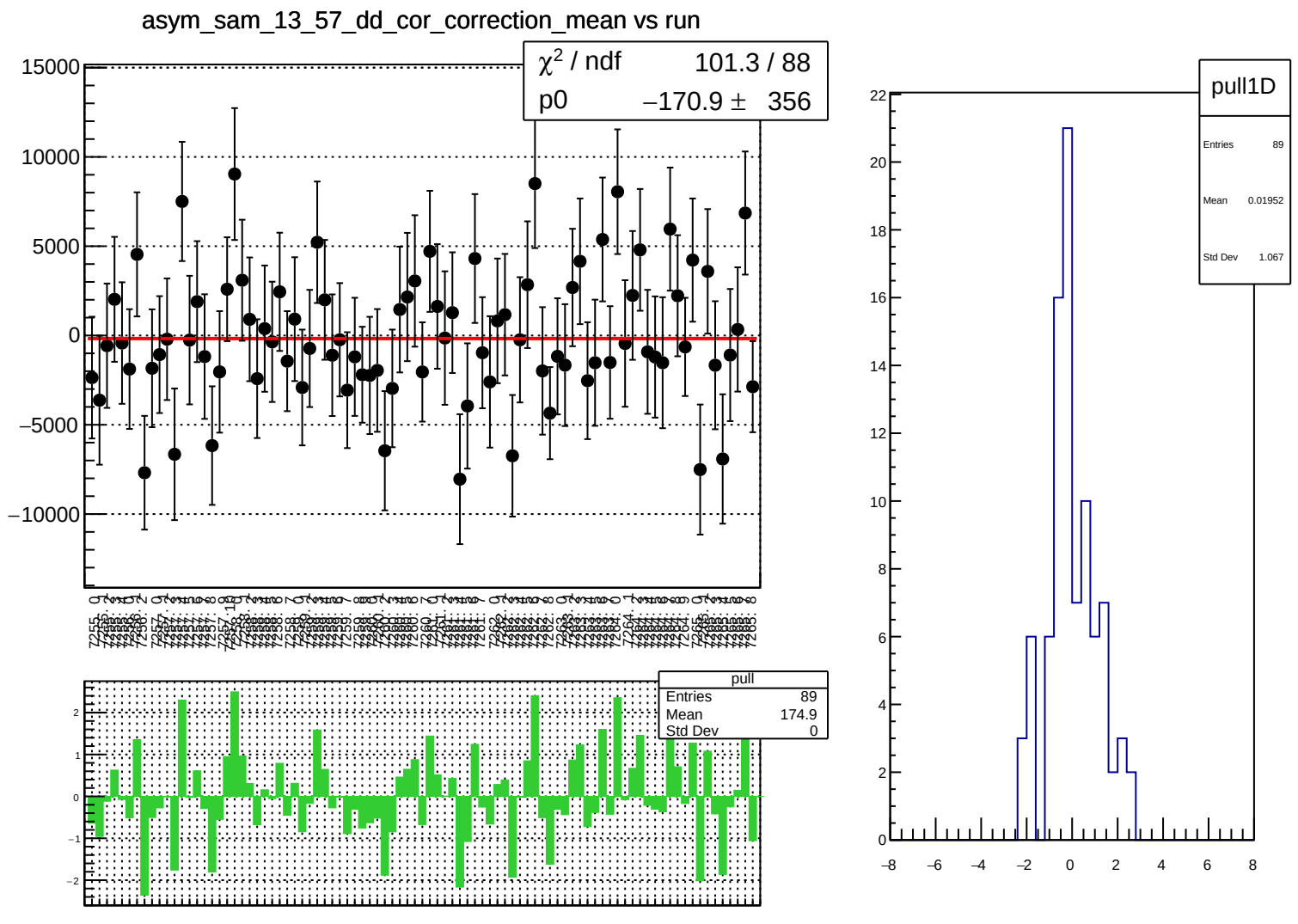

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 101.3 / 88
p0 −170.9 ± 356
pull
Entries 89
Mean 174.9
Std Dev 0
pull1D
Entries 89
Mean 0.01952
Std Dev 1.067

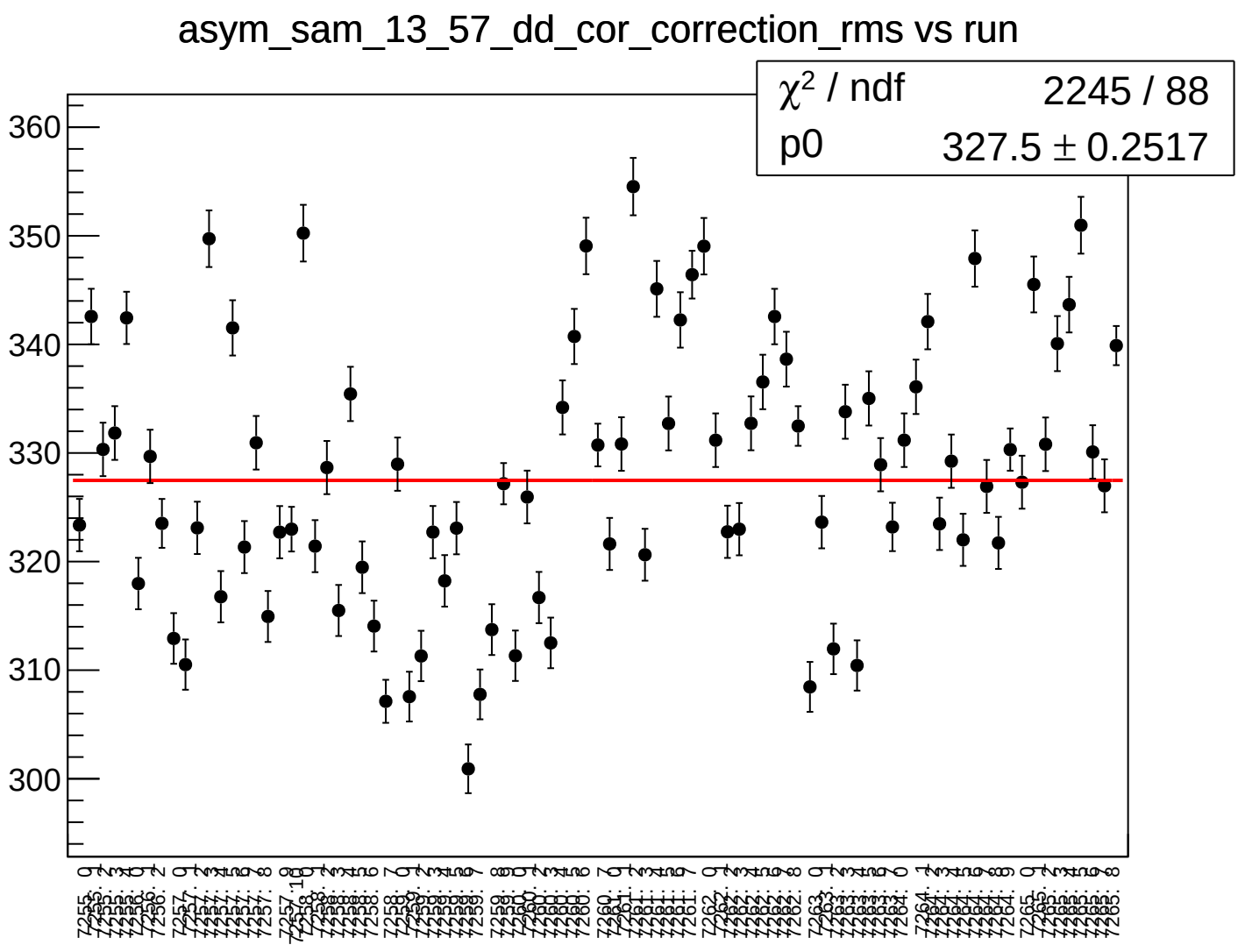

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 2245 / 88
p0 327.5 ± 0.2517
360
350
340
330
320
310
300

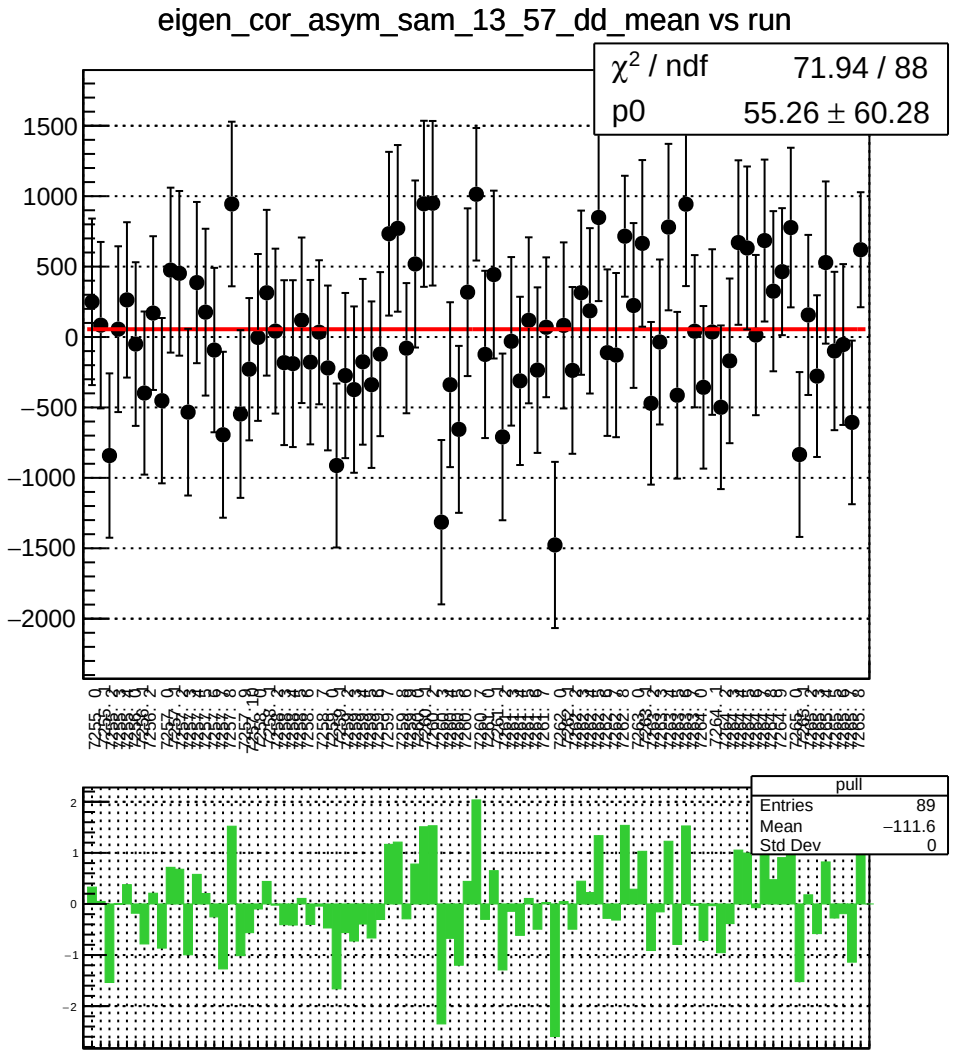

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 71.94 / 88
p0 55.26 ± 60.28
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 89
Mean −111.6
Std Dev 0
2
1
0
−1
−2

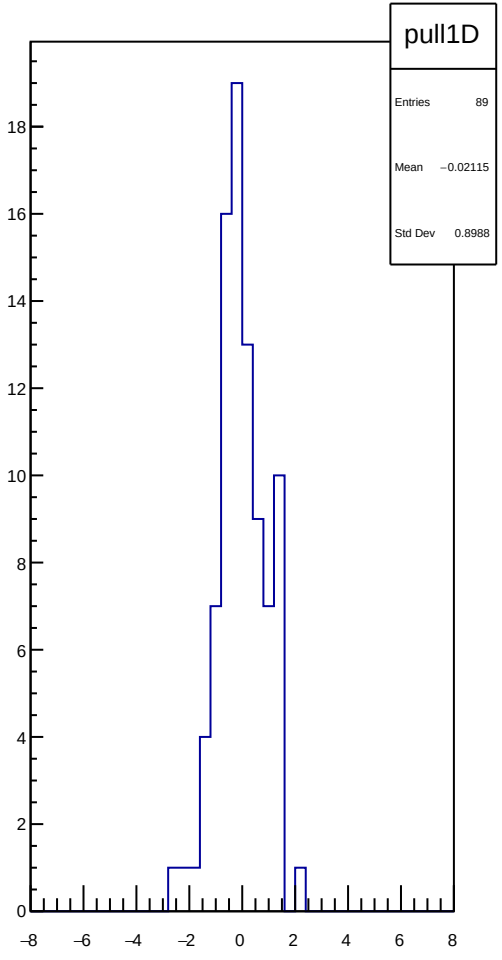

pull1D
Entries 89
Mean −0.02115
Std Dev 0.8988
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

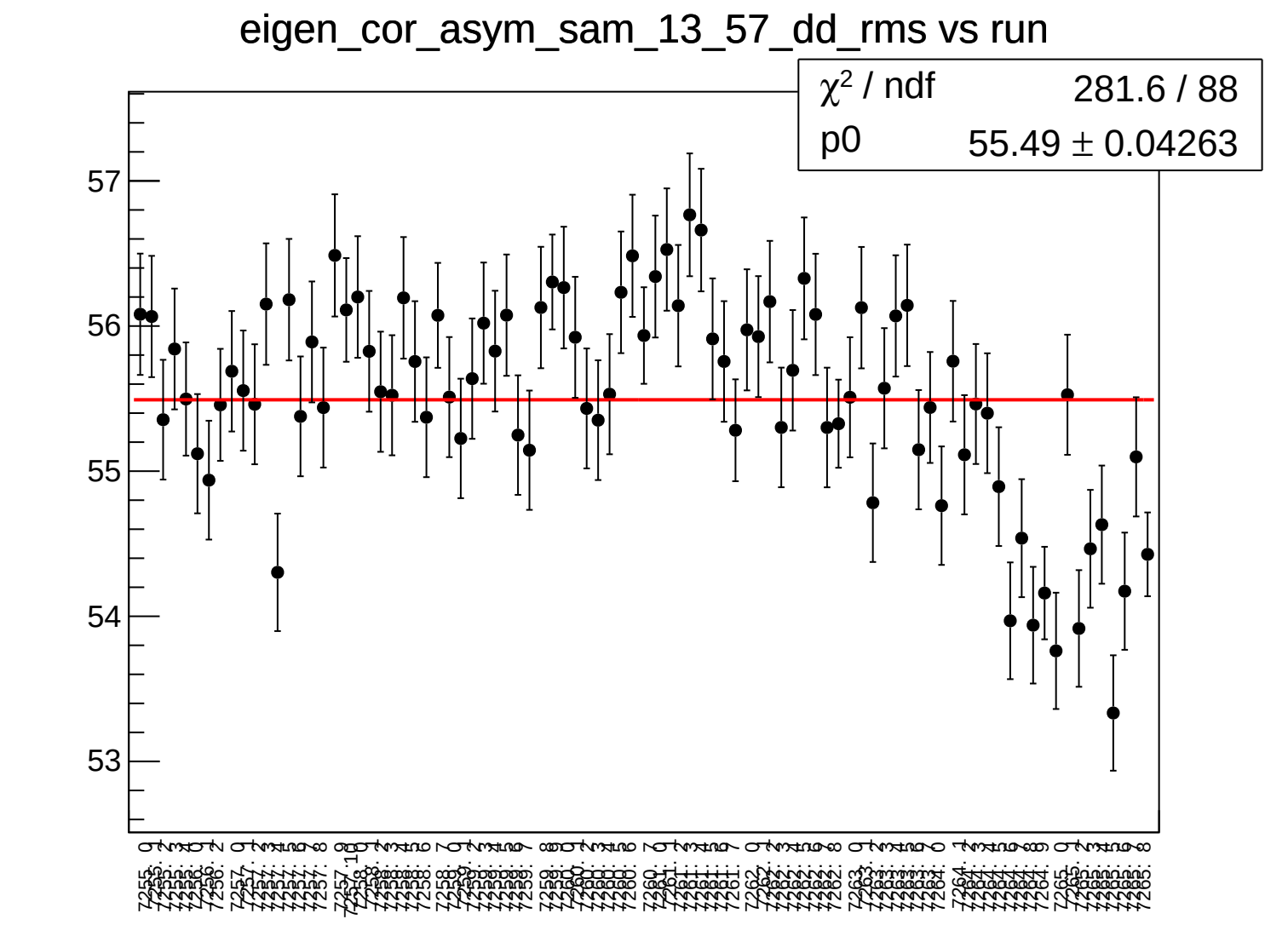

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 281.6 / 88
p0 55.49 ± 0.04263
57
56
55
54
53

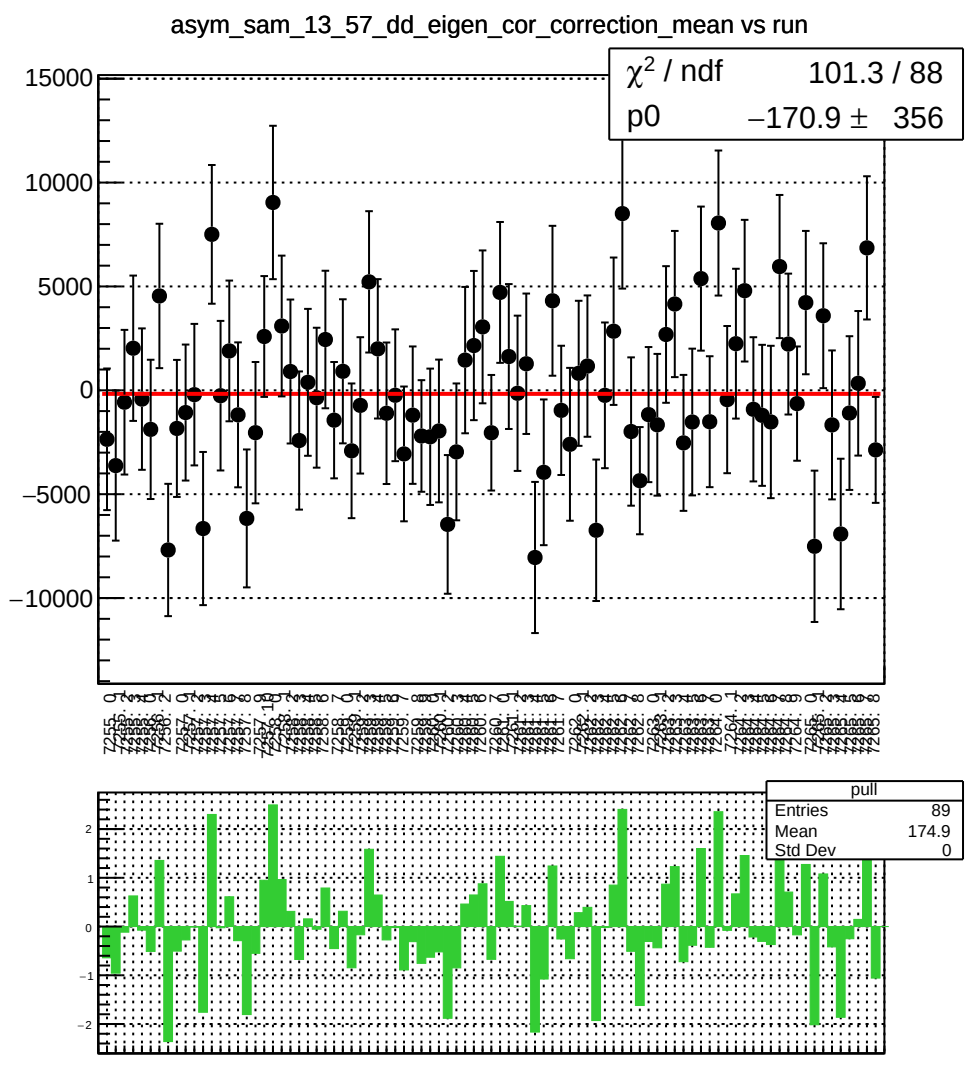

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 101.3 / 88
p0 −170.9 ± 356
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 174.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01952
Std Dev 1.067
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

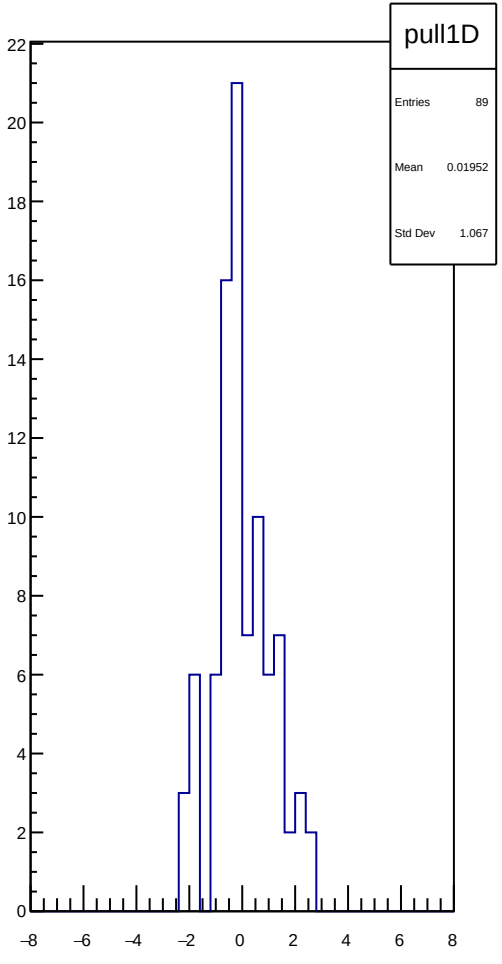

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 2245 / 88
p0 327.5 ± 0.2517
360
350
340
330
320
310
300

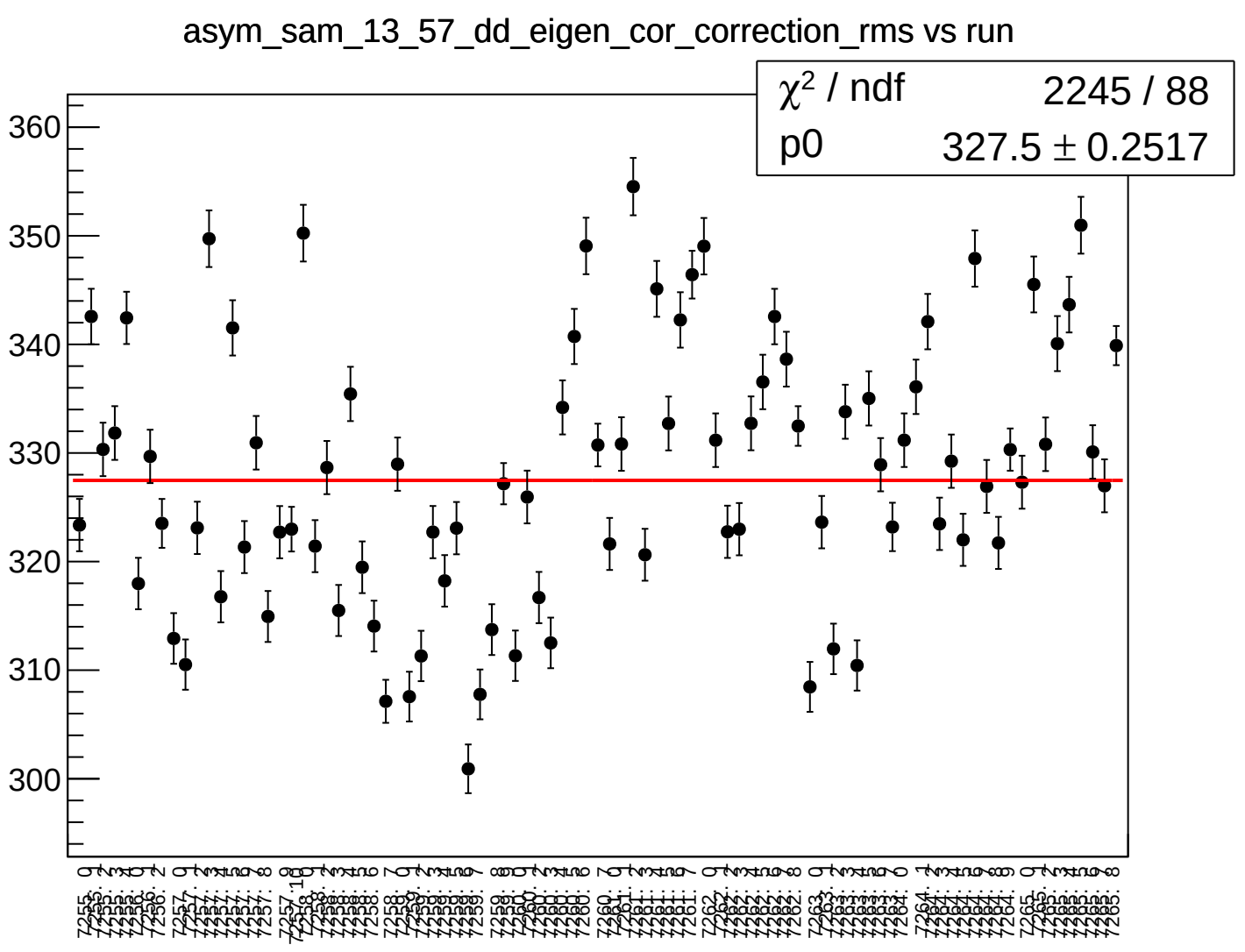

eigen_cor_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 71.94 / 88
p0 55.26 ± 60.28
pull
Entries 89
Mean −111.6
Std Dev 0

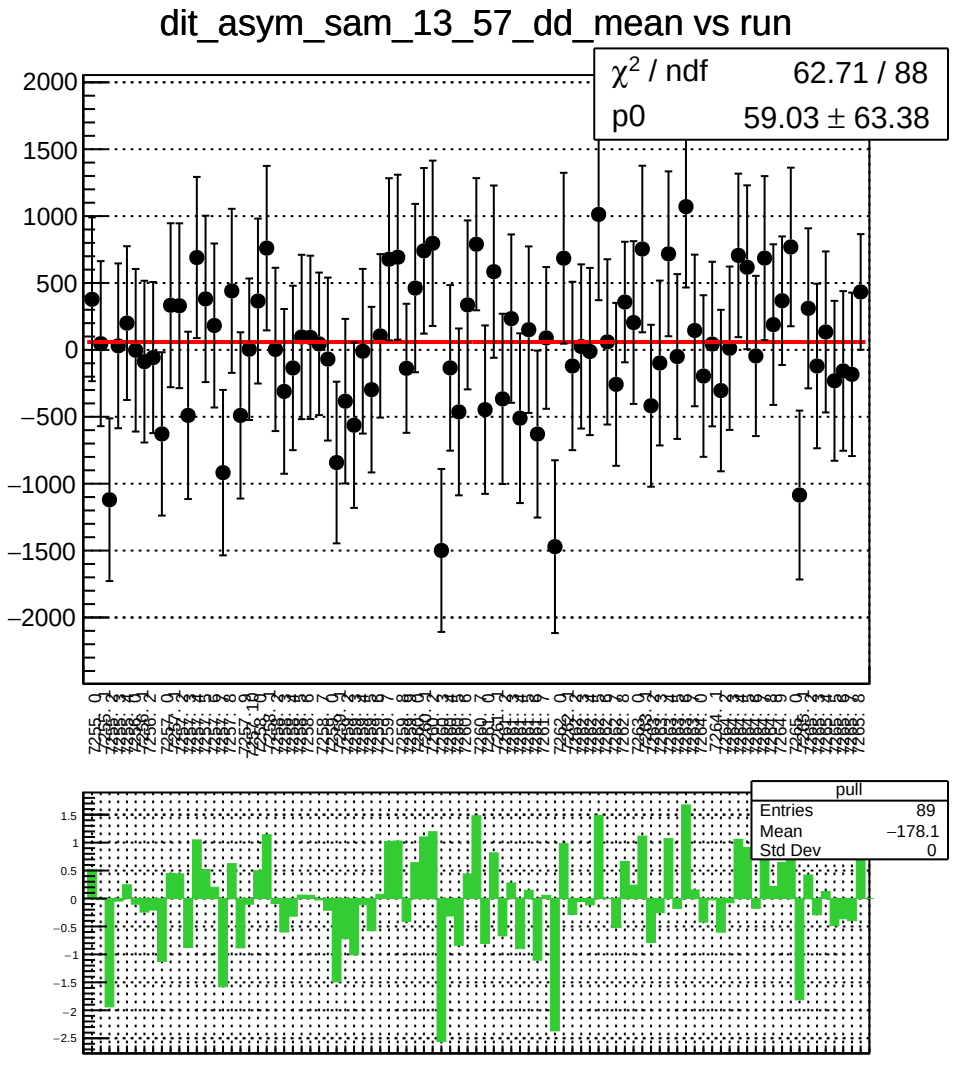

pull1D
Entries 89
Mean −0.02115
Std Dev 0.8988

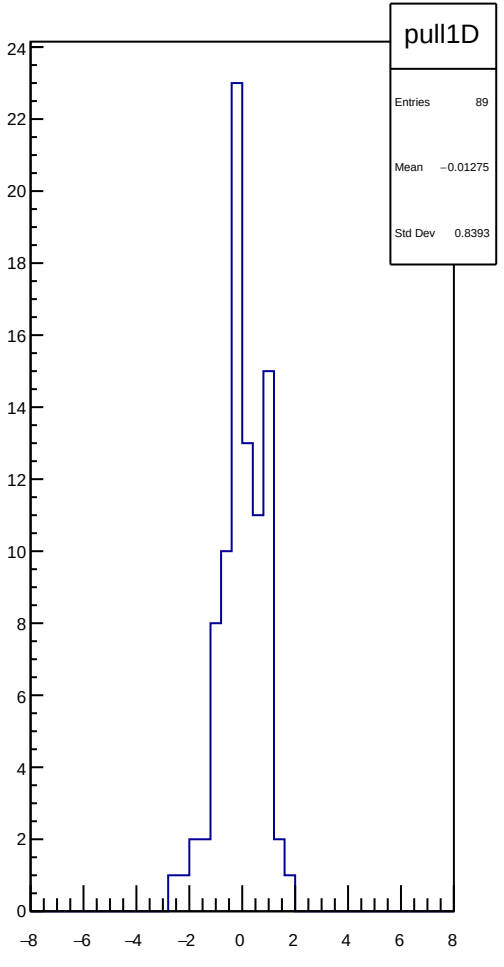

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 281.6 / 88
p0 55.49 ± 0.04263
57
56
55
54
53

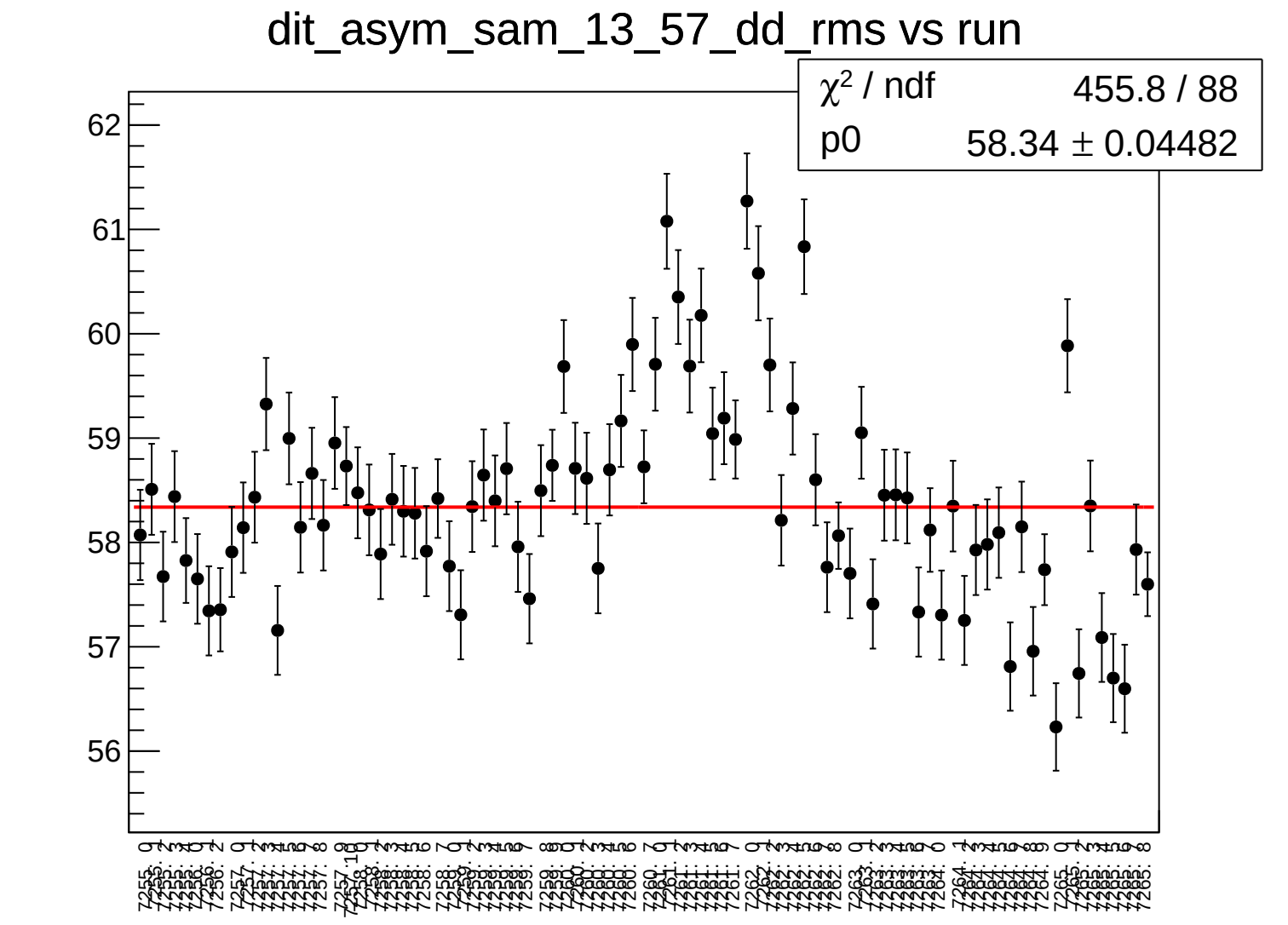

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 101.3 / 88
p0 −170.9 ± 356
pull
Entries 89
Mean 174.9
Std Dev 0

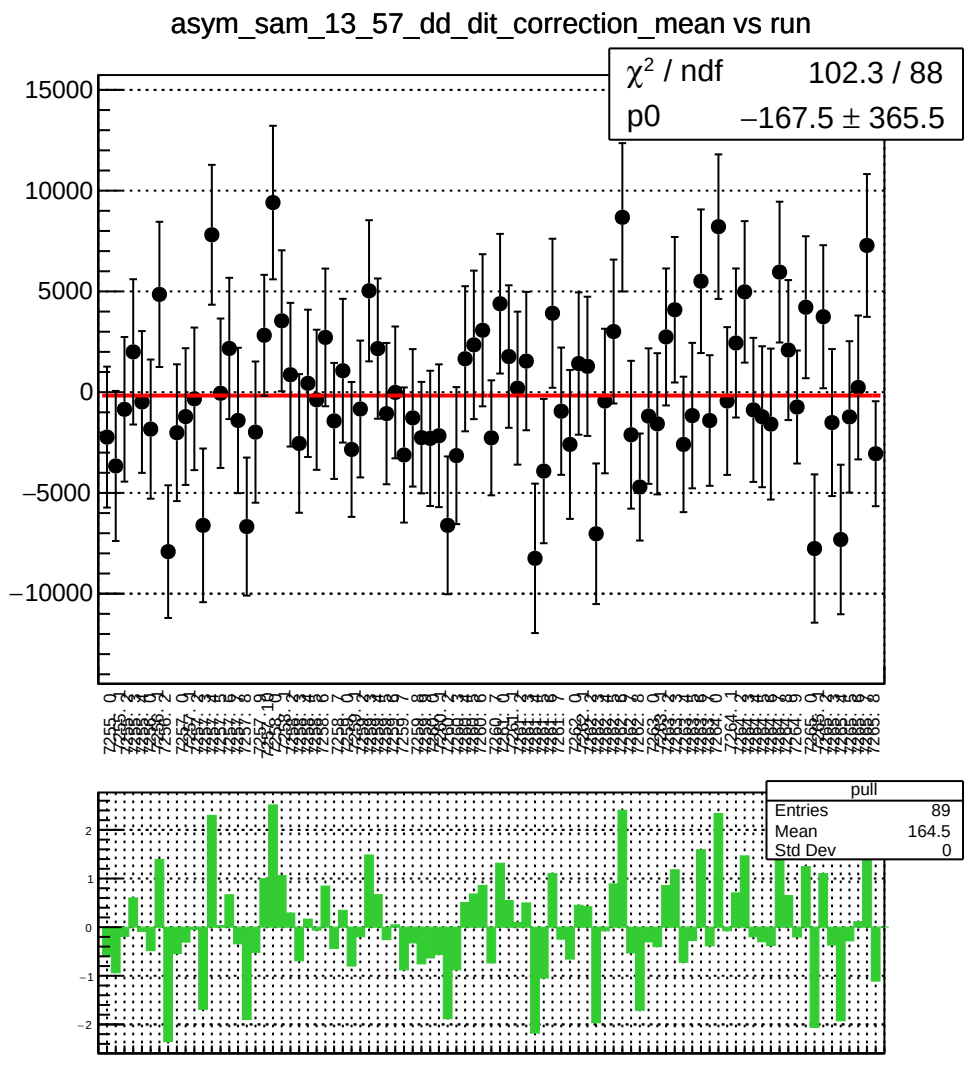

pull1D
Entries 89
Mean 0.01952
Std Dev 1.067

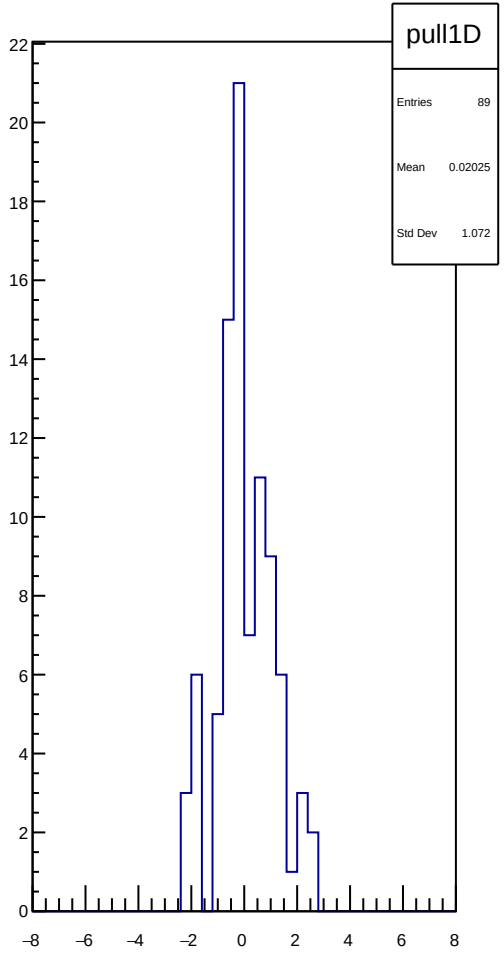

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 2245 / 88
p0 327.5 ± 0.2517
360
350
340
330
320
310
300

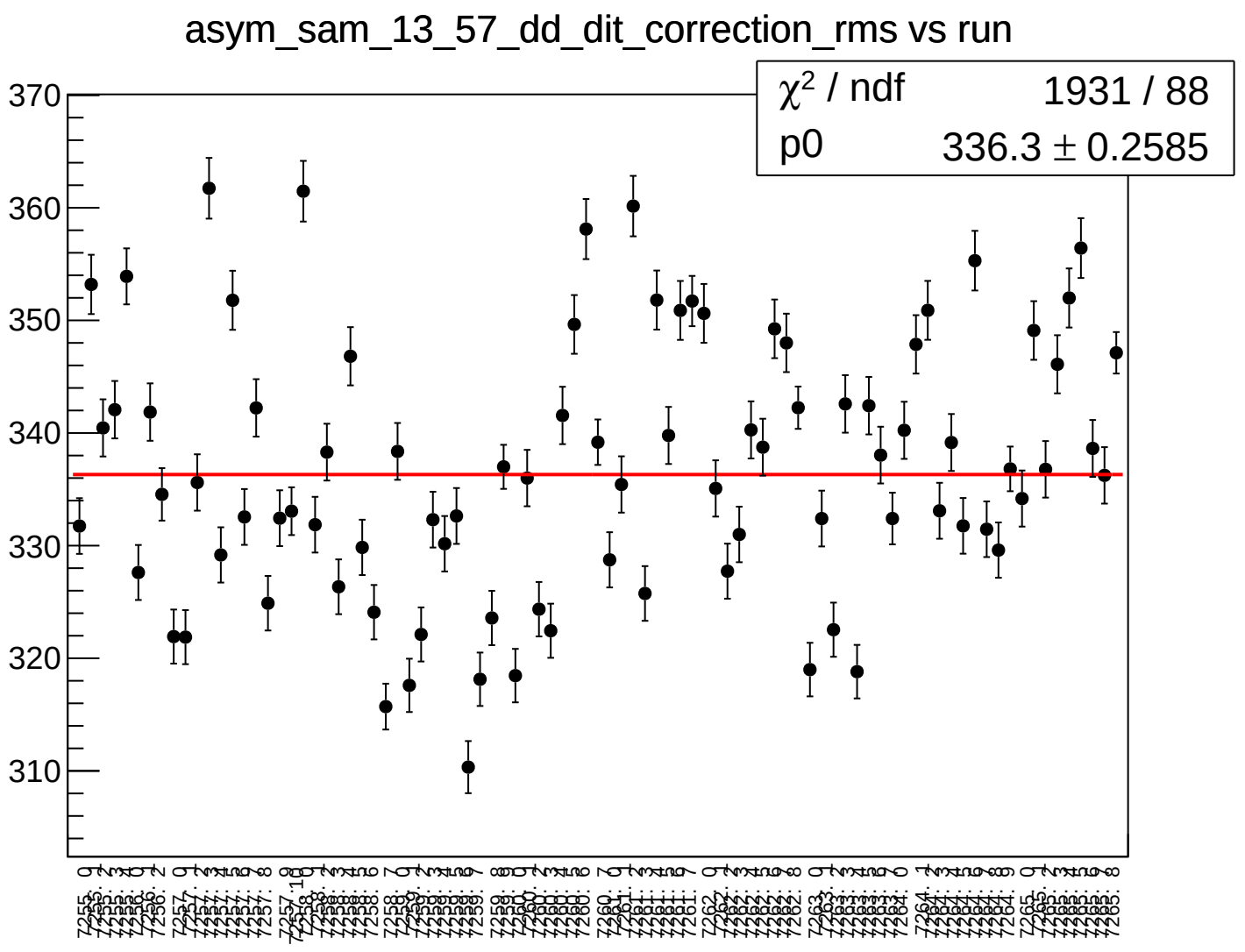

dit_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 62.71 / 88
p0 59.03 ± 63.38
pull
Entries 89
Mean −178.1
Std Dev 0

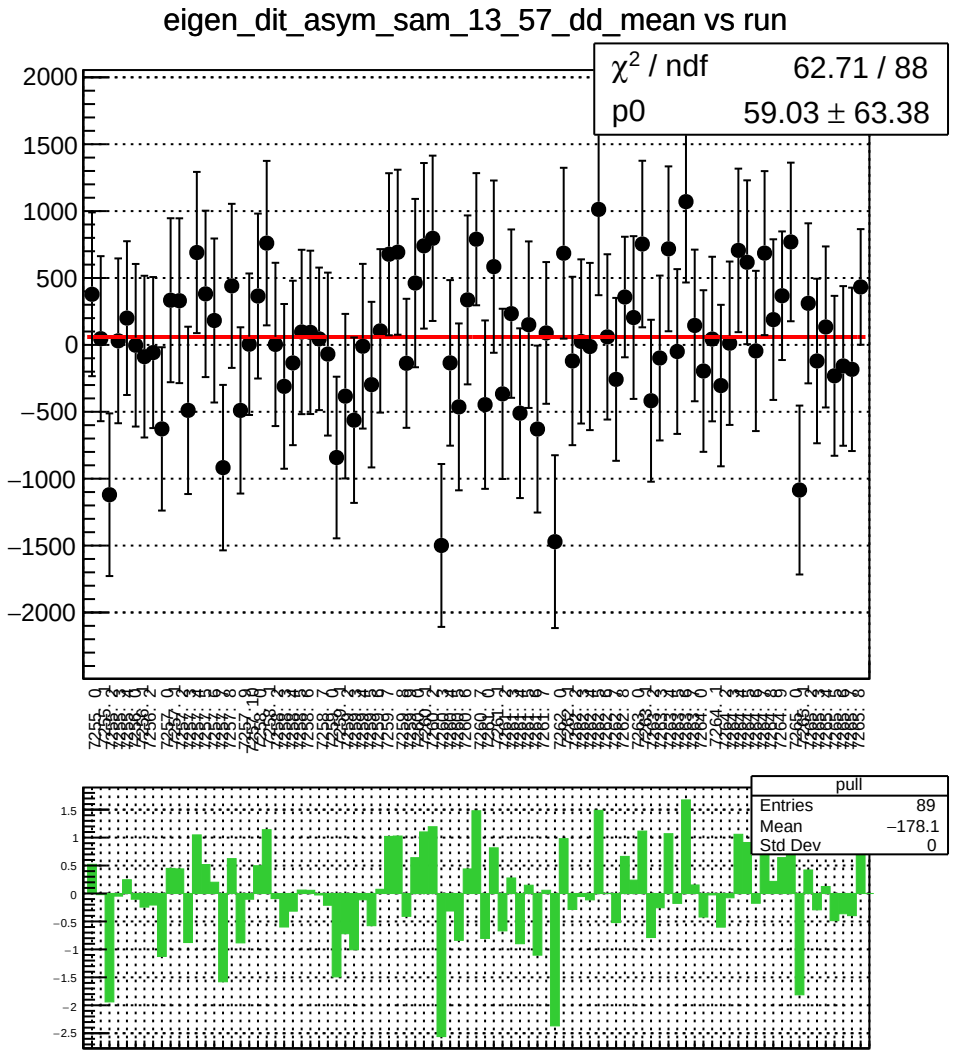

pull1D
Entries 89
Mean −0.01275
Std Dev 0.8393

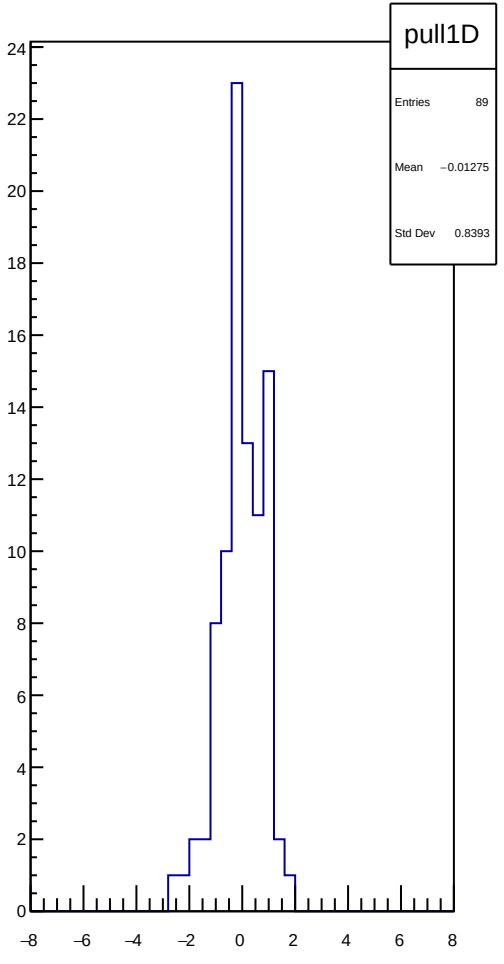

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 455.8 / 88
p0 58.34 ± 0.04482
62
61
60
59
58
57
56

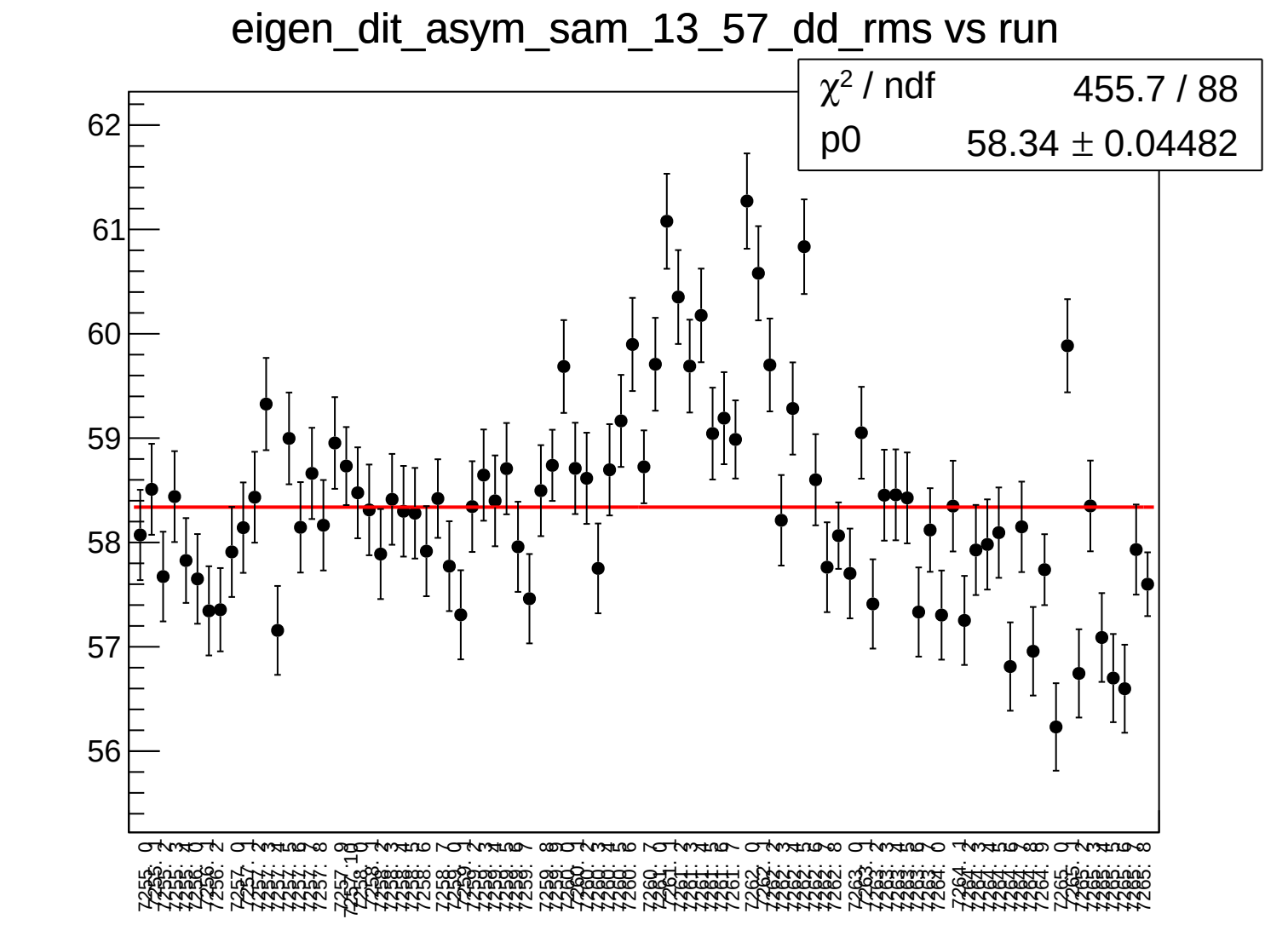

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 102.3 / 88
p0 −167.5 ± 365.5
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 164.5
Std Dev 0
2
1
0
−1
−2

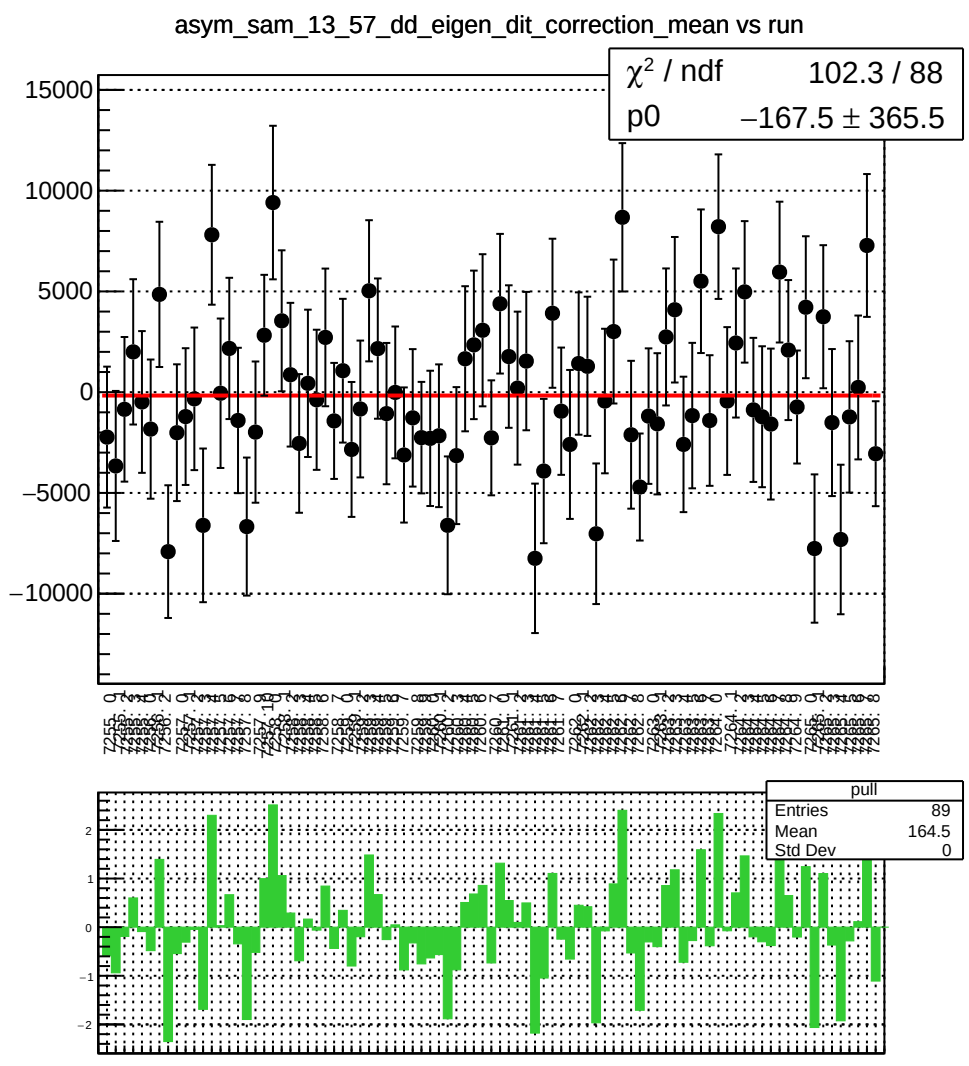

pull1D
Entries 89
Mean 0.02025
Std Dev 1.072
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

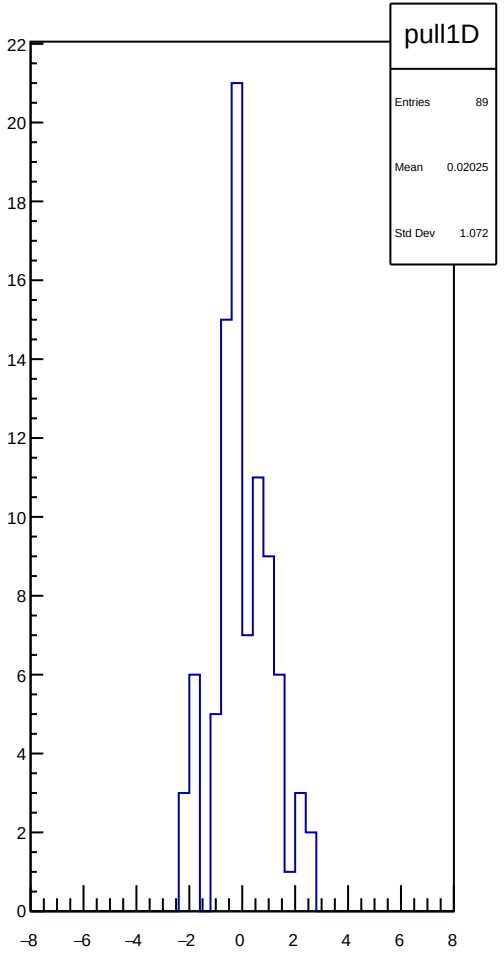

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 1931 / 88
p0 336.3 ± 0.2585
370
360
350
340
330
320
310

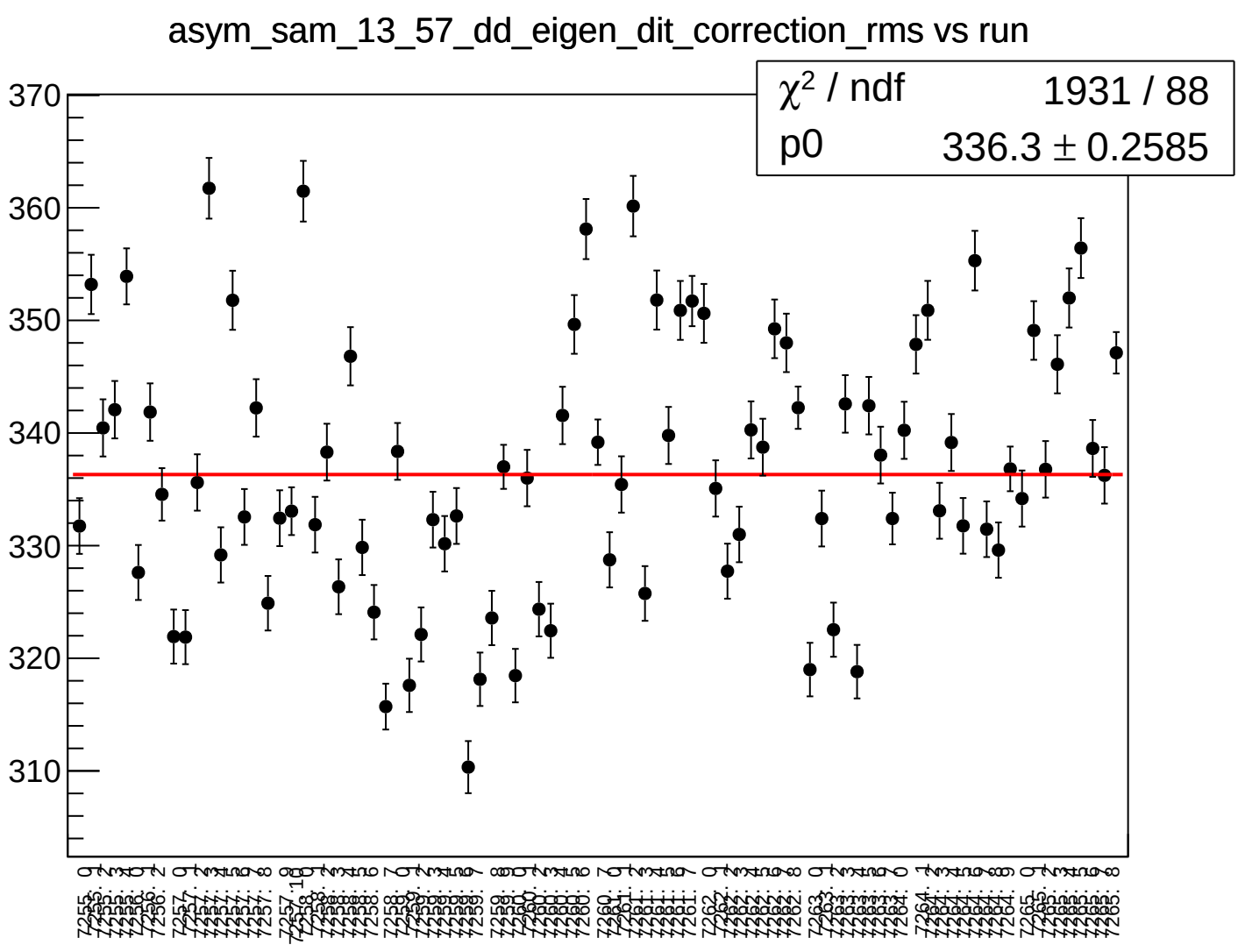

eigen_dit_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 62.71 / 88
p0 59.03 ± 63.38
pull
Entries 89
Mean −178.1
Std Dev 0

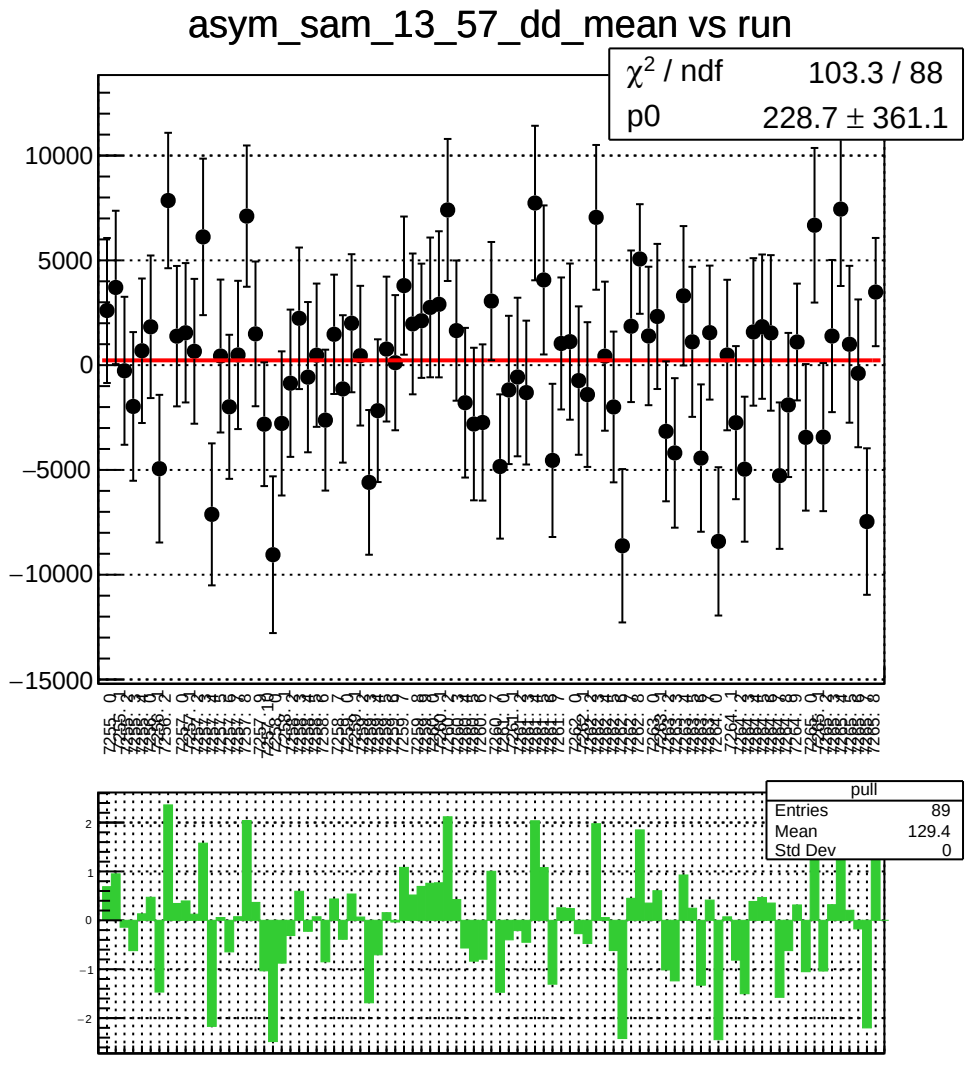

pull1D
Entries 89
Mean −0.01275
Std Dev 0.8393

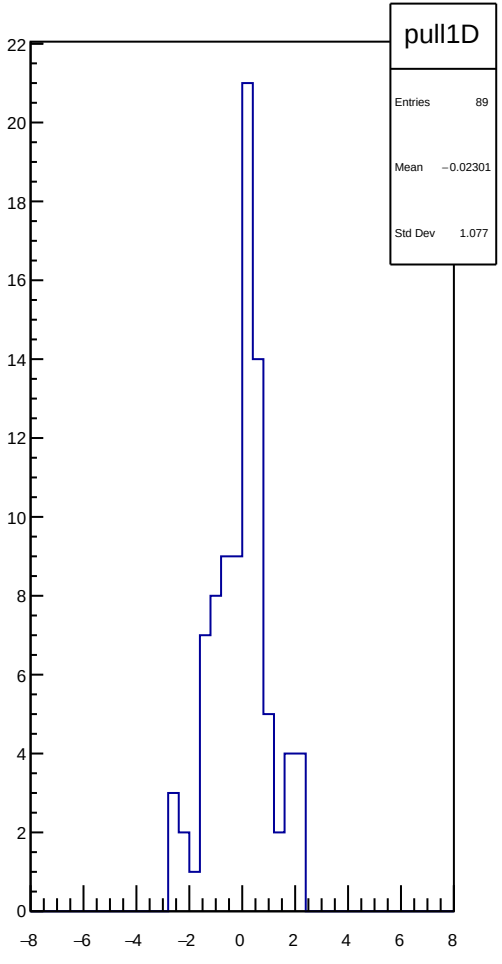

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 455.7 / 88
p0 58.34 ± 0.04482
62
61
60
59
58
57
56

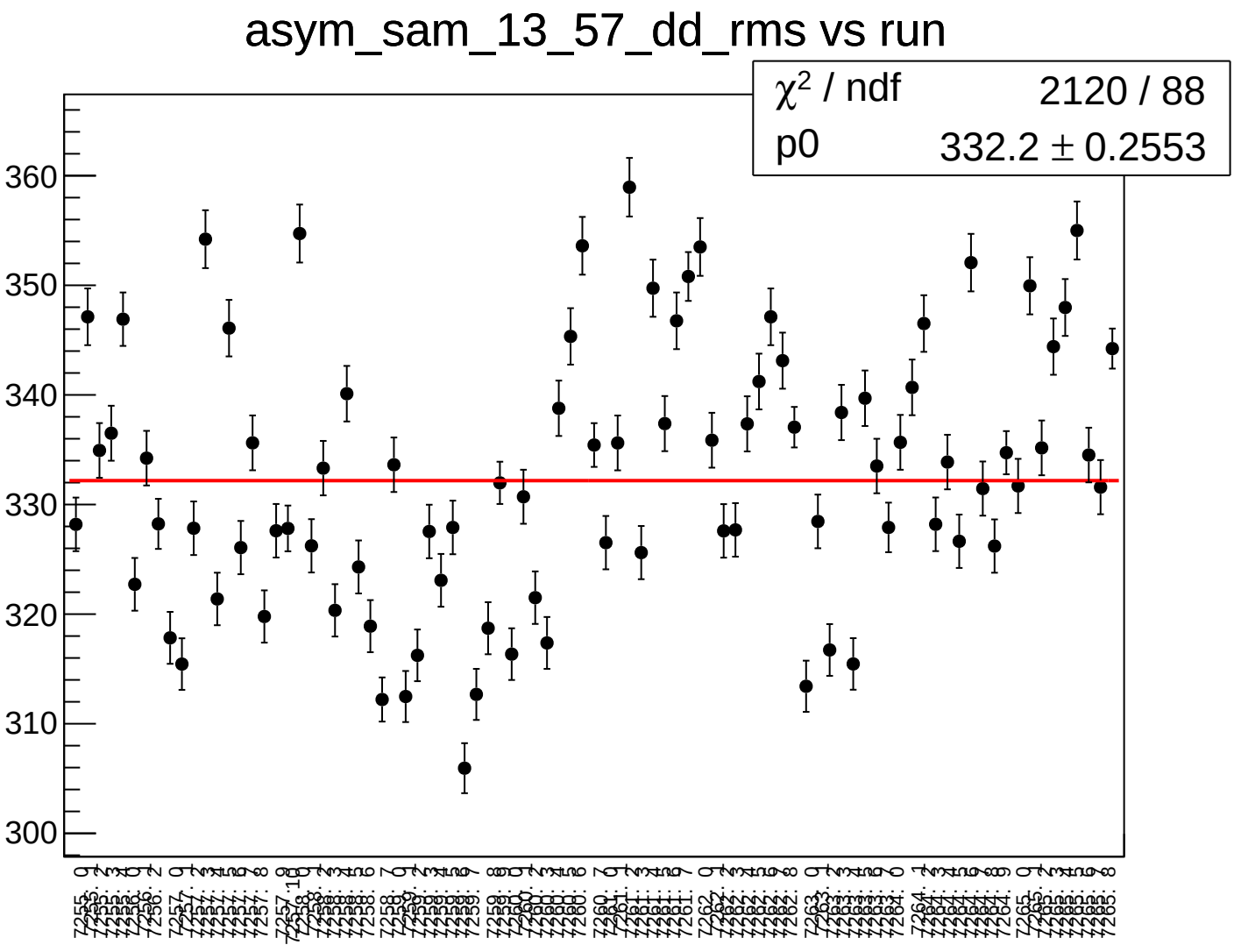

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 102.3 / 88
p0 −167.5 ± 365.5
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 164.5
Std Dev 0
2
1
0
−1
−2

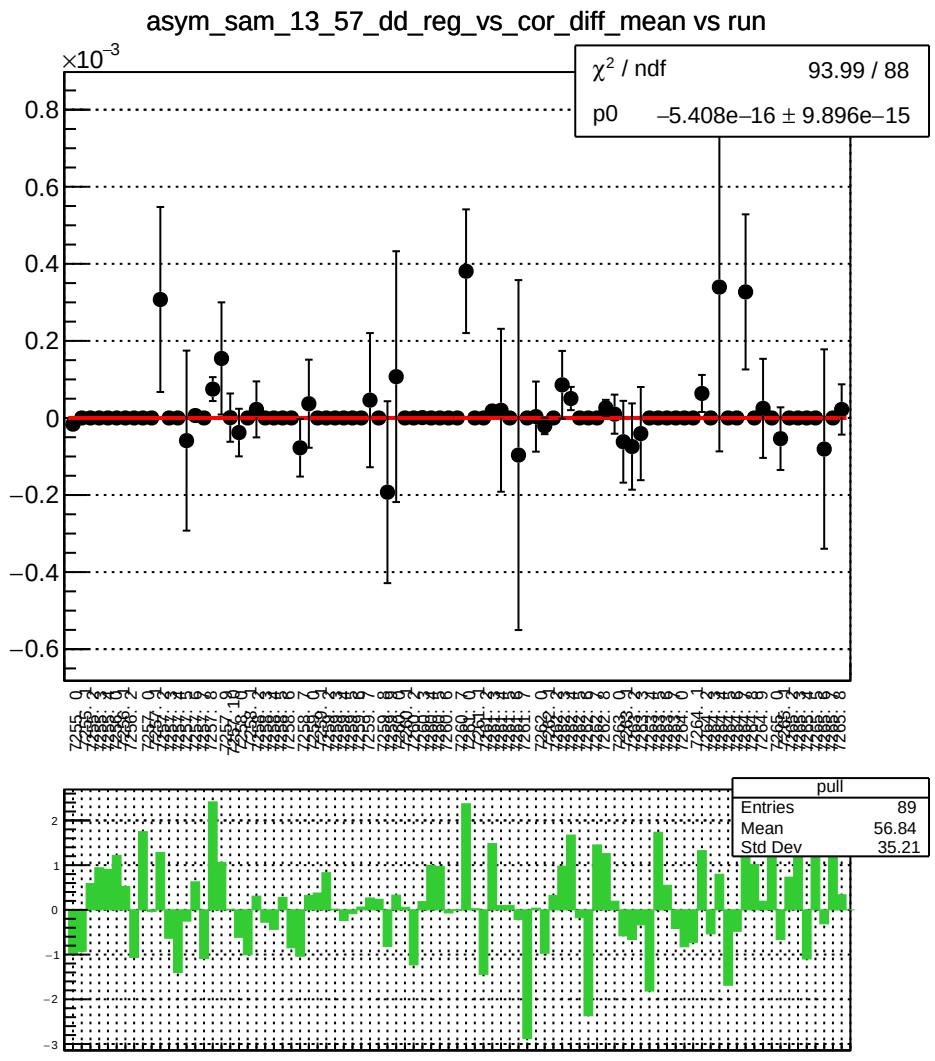

pull1D
Entries 89
Mean 0.02025
Std Dev 1.072
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

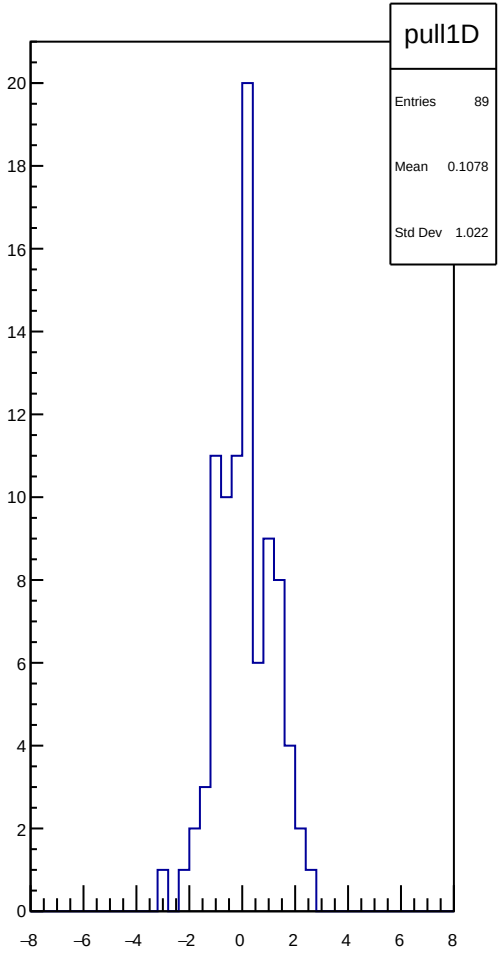

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 1931 / 88
p0 336.3 ± 0.2585
370
360
350
340
330
320
310

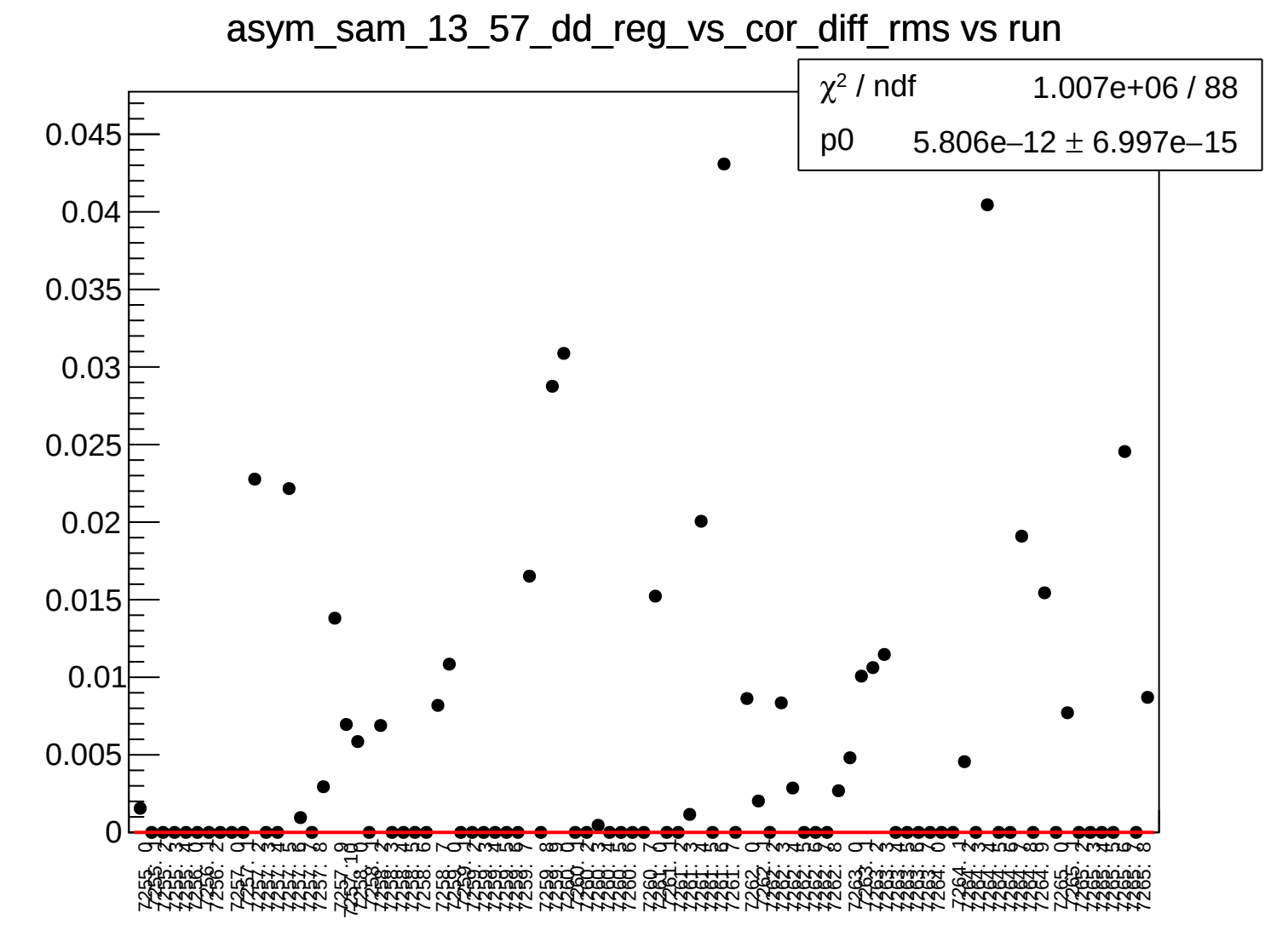

asym_sam_13_57_dd_mean vs run
χ² / ndf 103.3 / 88
p0 228.7 ± 361.1
pull
Entries 89
Mean 129.4
Std Dev 0

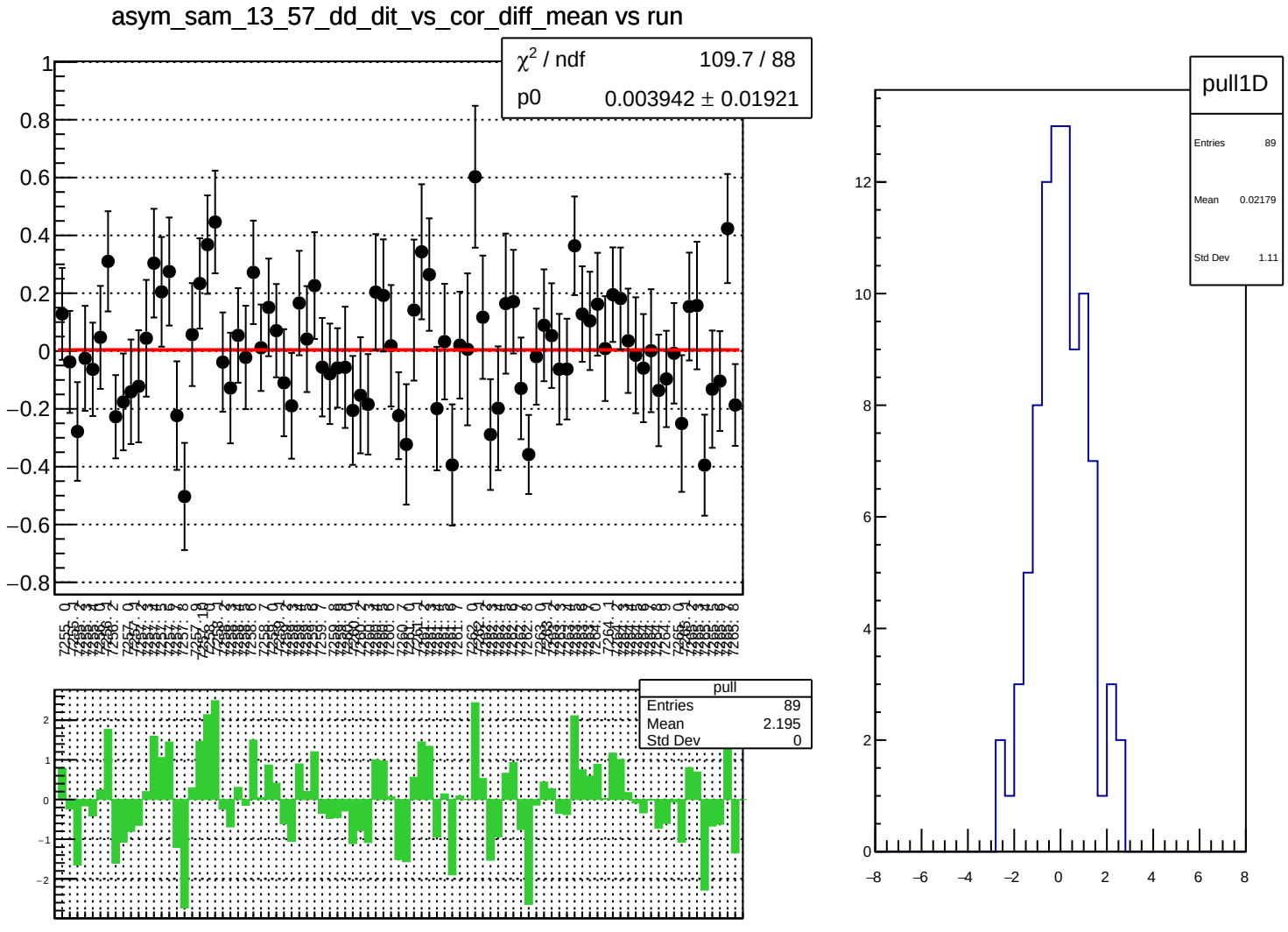

pull1D
Entries 89
Mean −0.02301
Std Dev 1.077

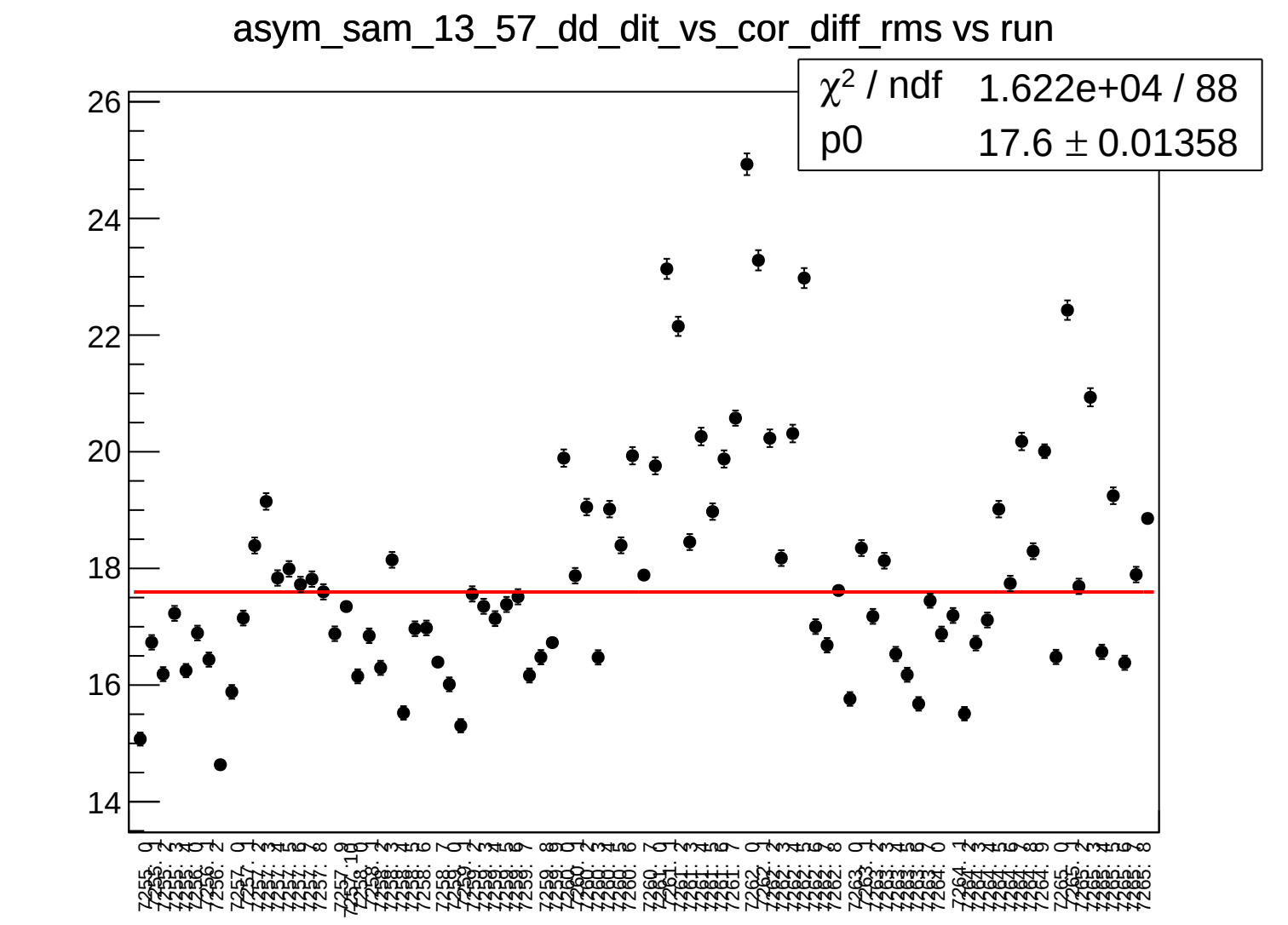

asym_sam_13_57_dd_rms vs run
χ² / ndf 2120 / 88
p0 332.2 ± 0.2553
360
350
340
330
320
310
300

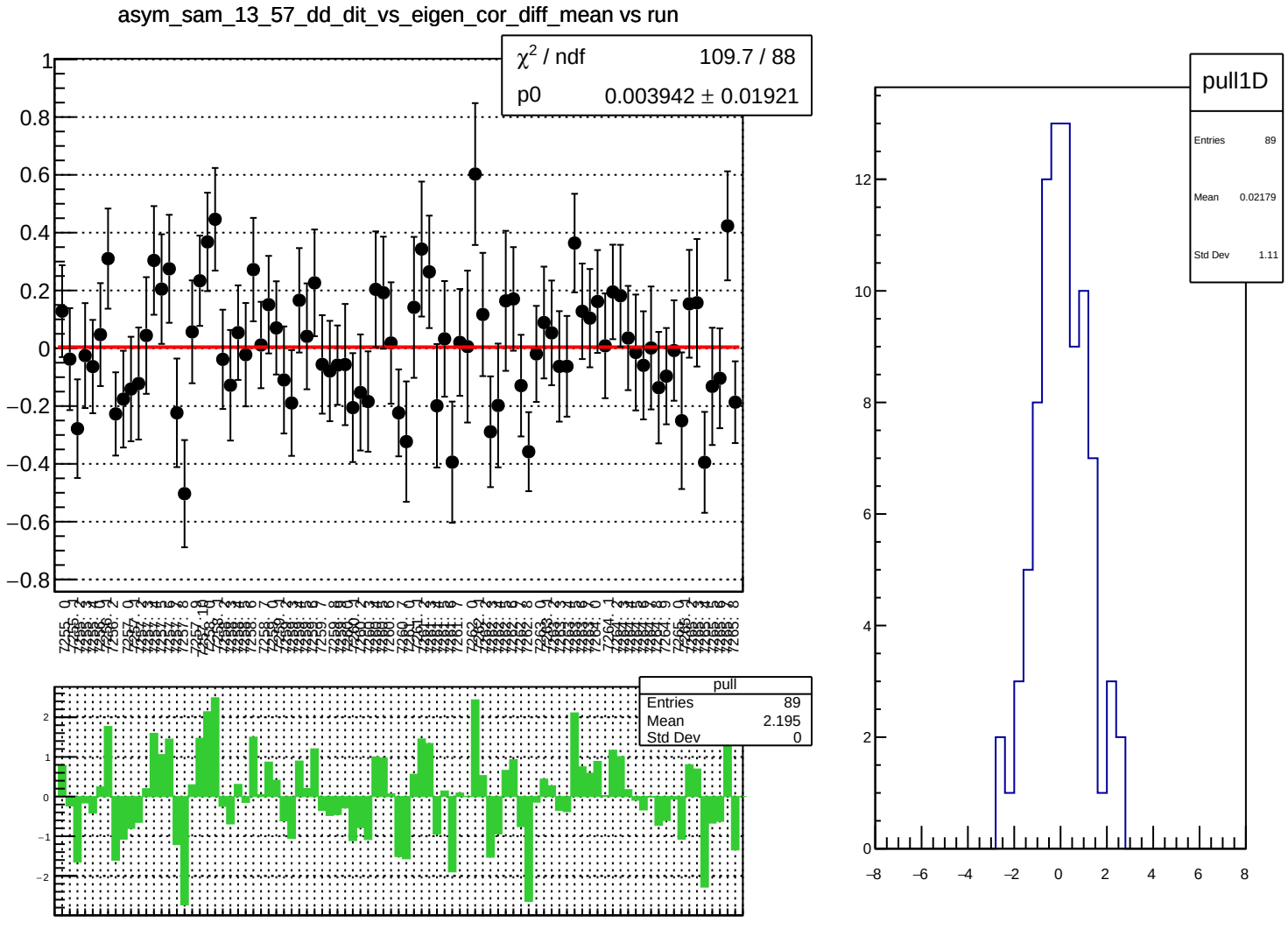

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 93.99 / 88
p0 −5.408e−16 ± 9.896e−15
pull
Entries 89
Mean 56.84
Std Dev 35.21

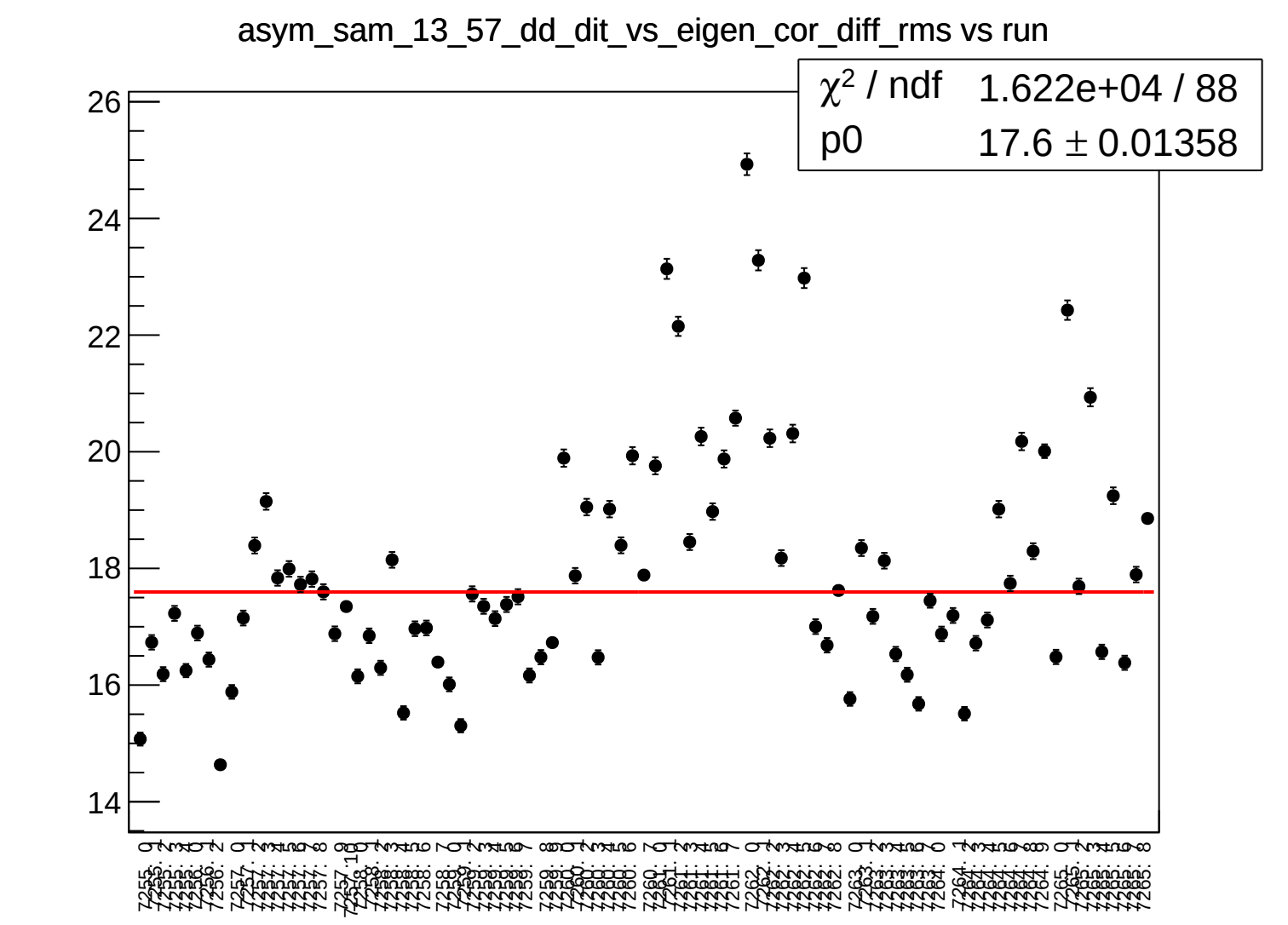

pull1D
Entries 89
Mean 0.1078
Std Dev 1.022

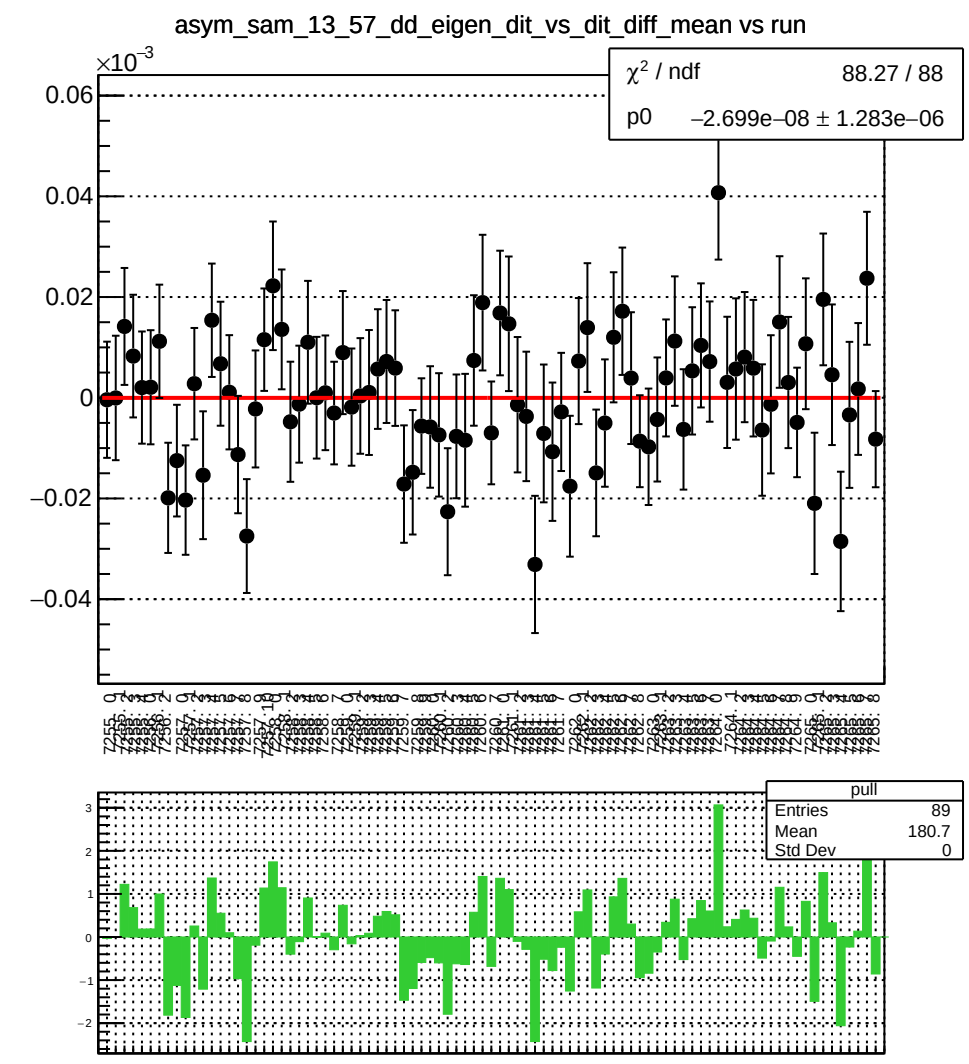

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.007e+06 / 88
p0 5.806e−12 ± 6.997e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

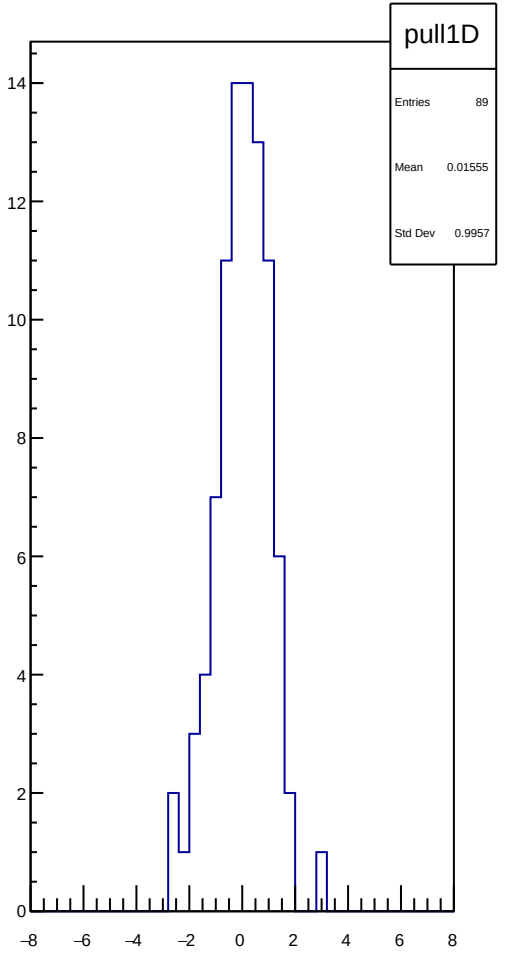

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 88
p0 0.003942 ± 0.01921
pull
Entries 89
Mean 2.195
Std Dev 0
pull1D
Entries 89
Mean 0.02179
Std Dev 1.11

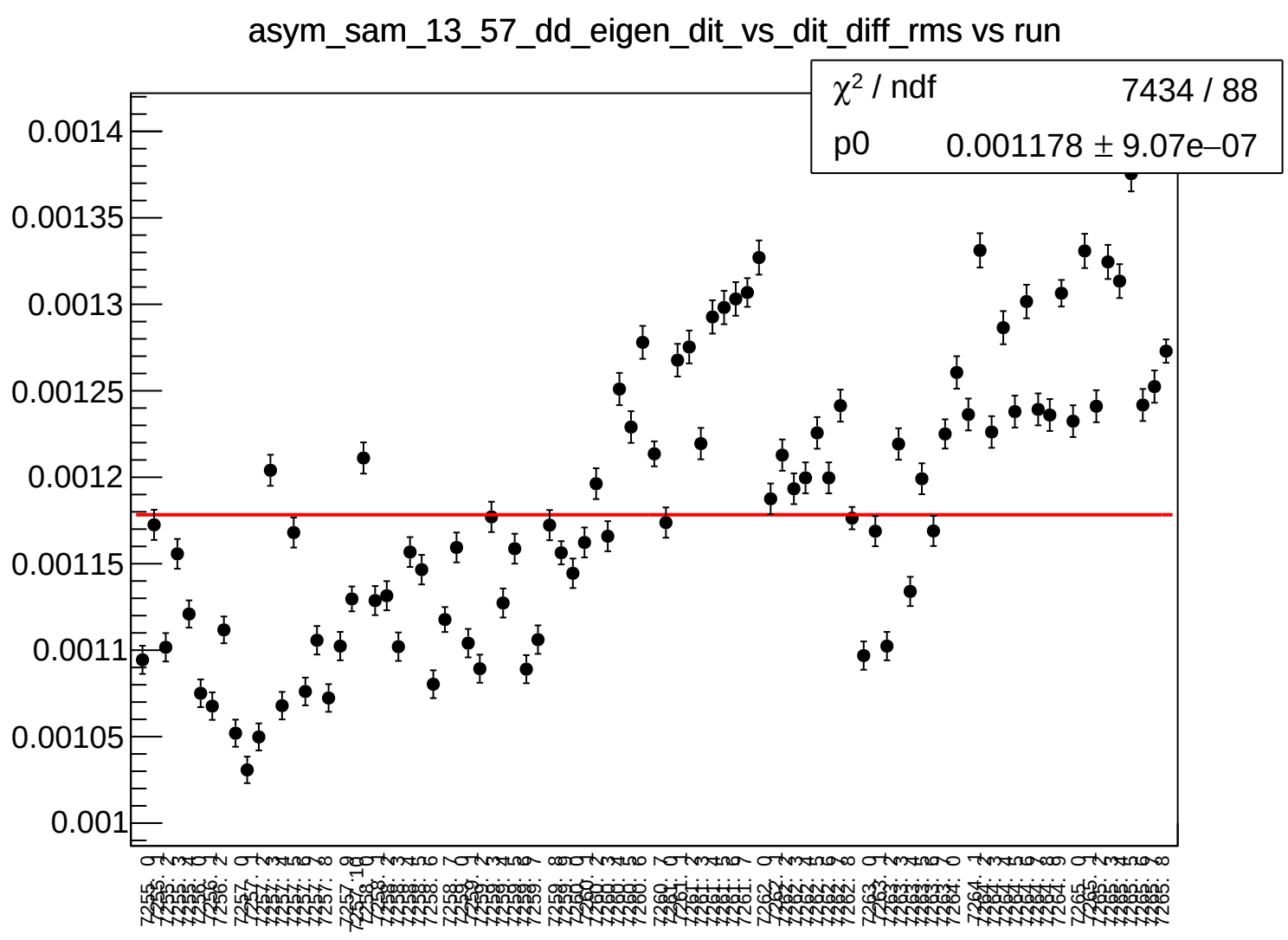

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.622e+04 / 88
p0 17.6 ± 0.01358
26
24
22
20
18
16
14

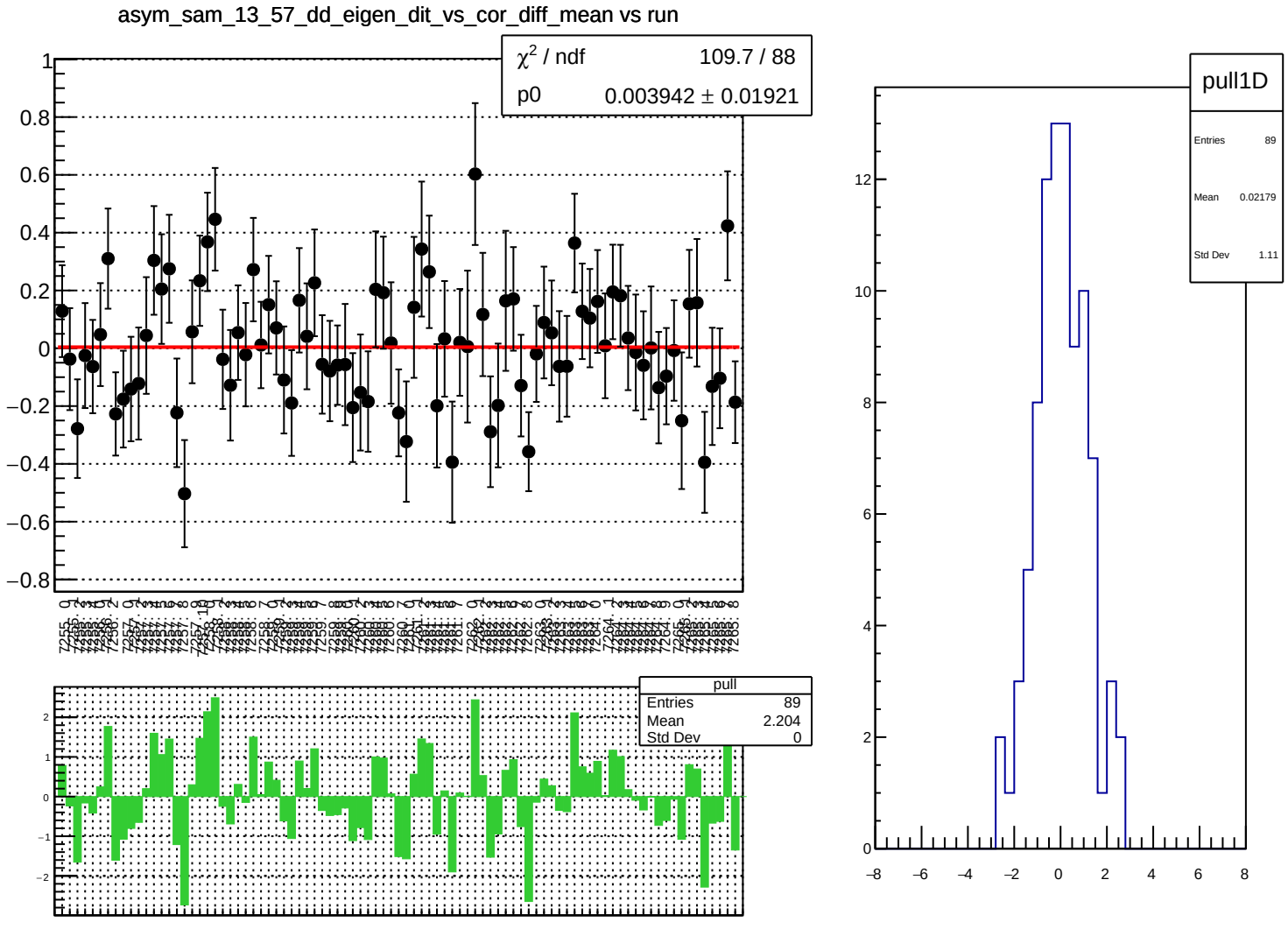

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.7 / 88
p0 0.003942 ± 0.01921
pull
Entries 89
Mean 2.195
Std Dev 0
pull1D
Entries 89
Mean 0.02179
Std Dev 1.11

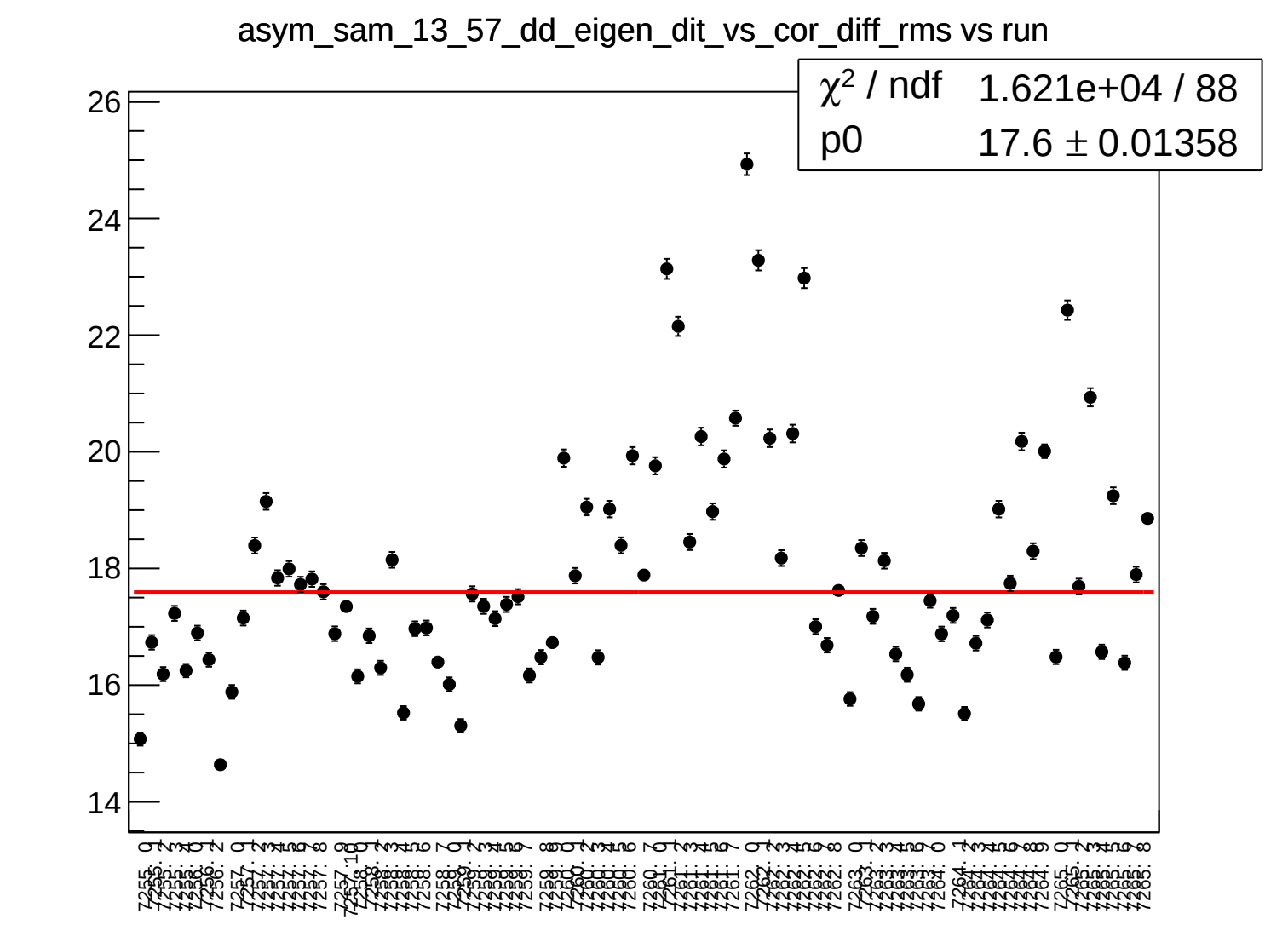

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.622e+04 / 88
p0 17.6 ± 0.01358
26
24
22
20
18
16
14

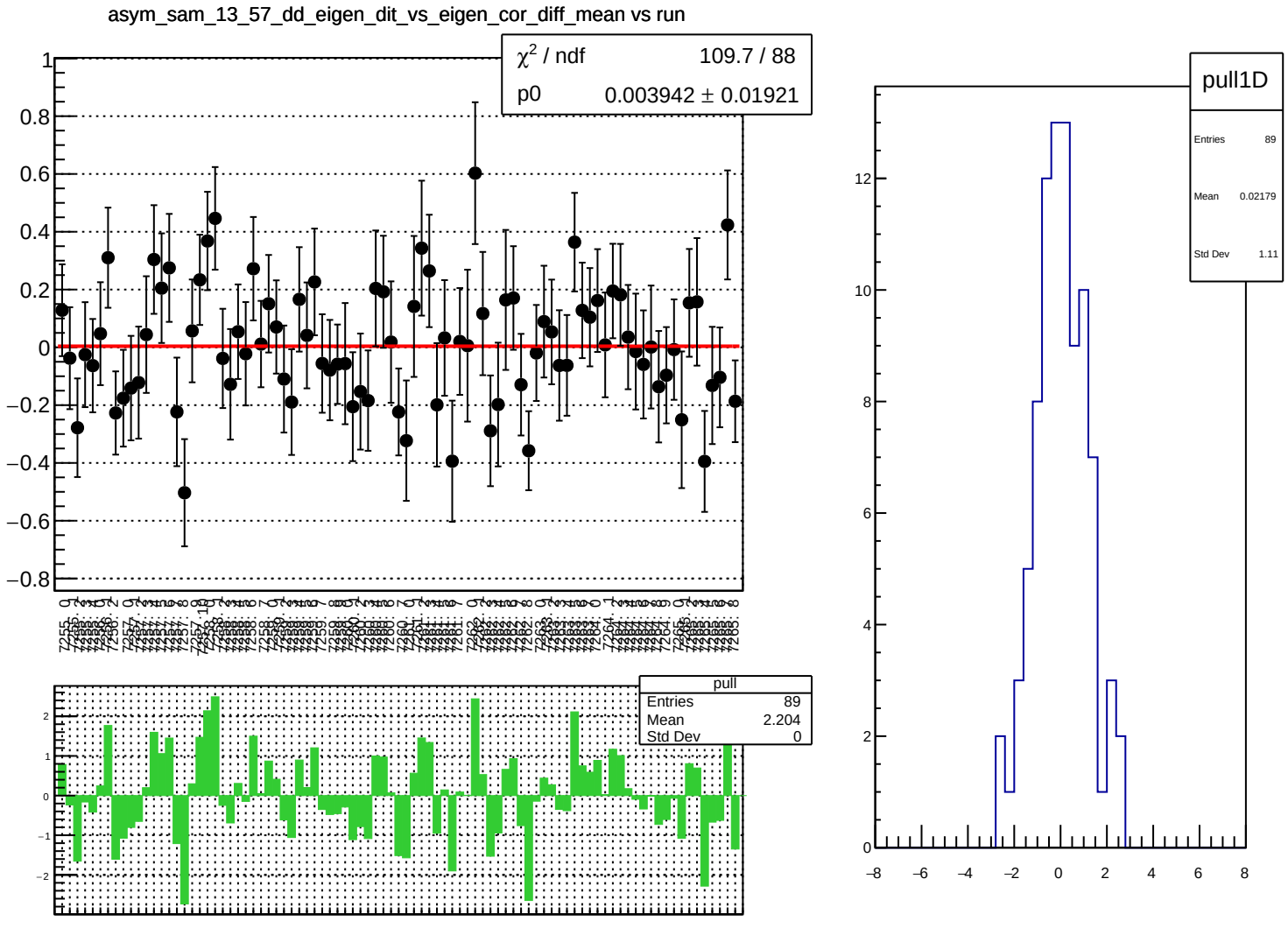

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 88.27 / 88
p0 −2.699e−08 ± 1.283e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean 180.7
Std Dev 0
3
2
1
0
−1
−2

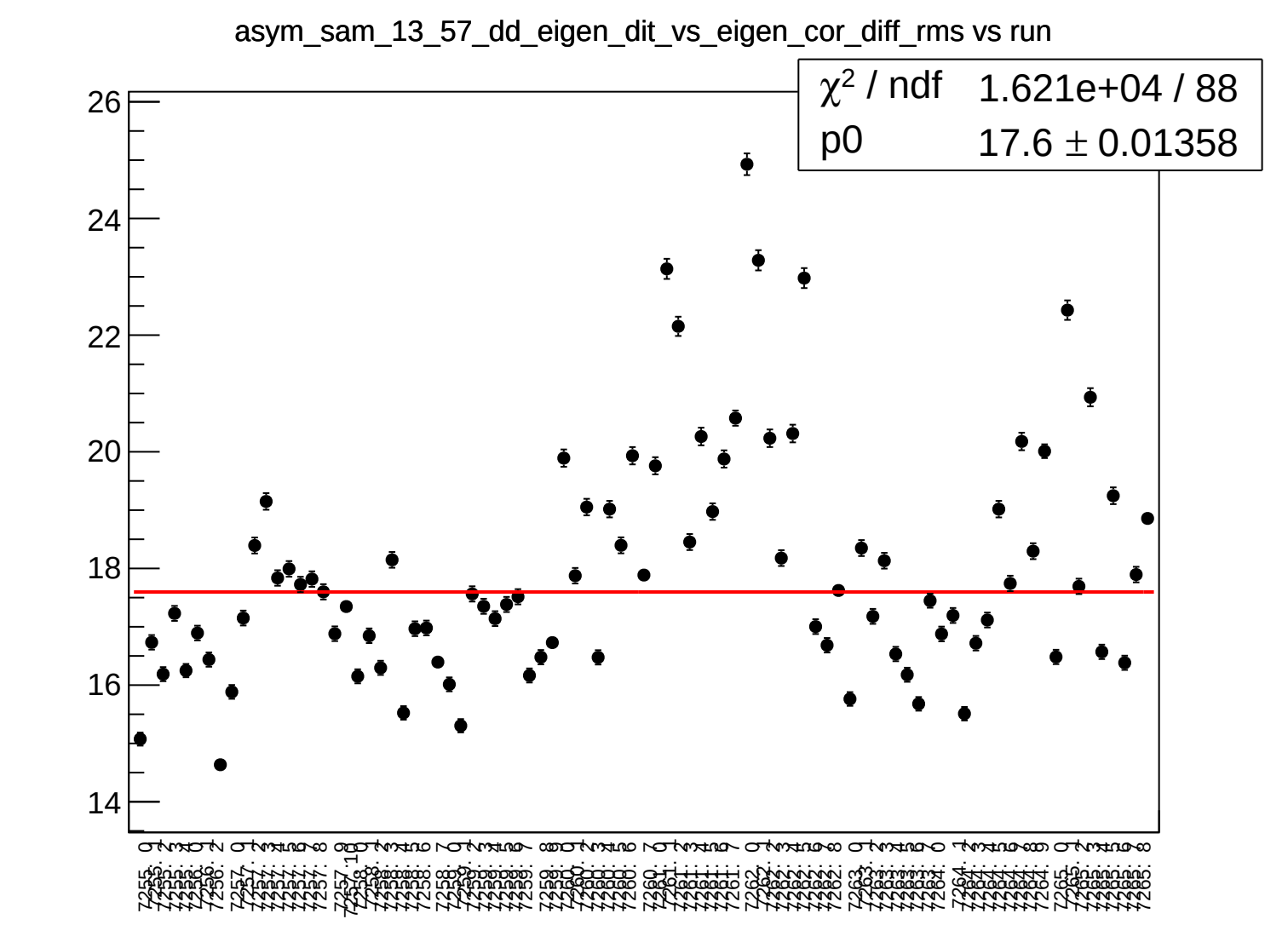

pull1D
Entries 89
Mean 0.01555
Std Dev 0.9957
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

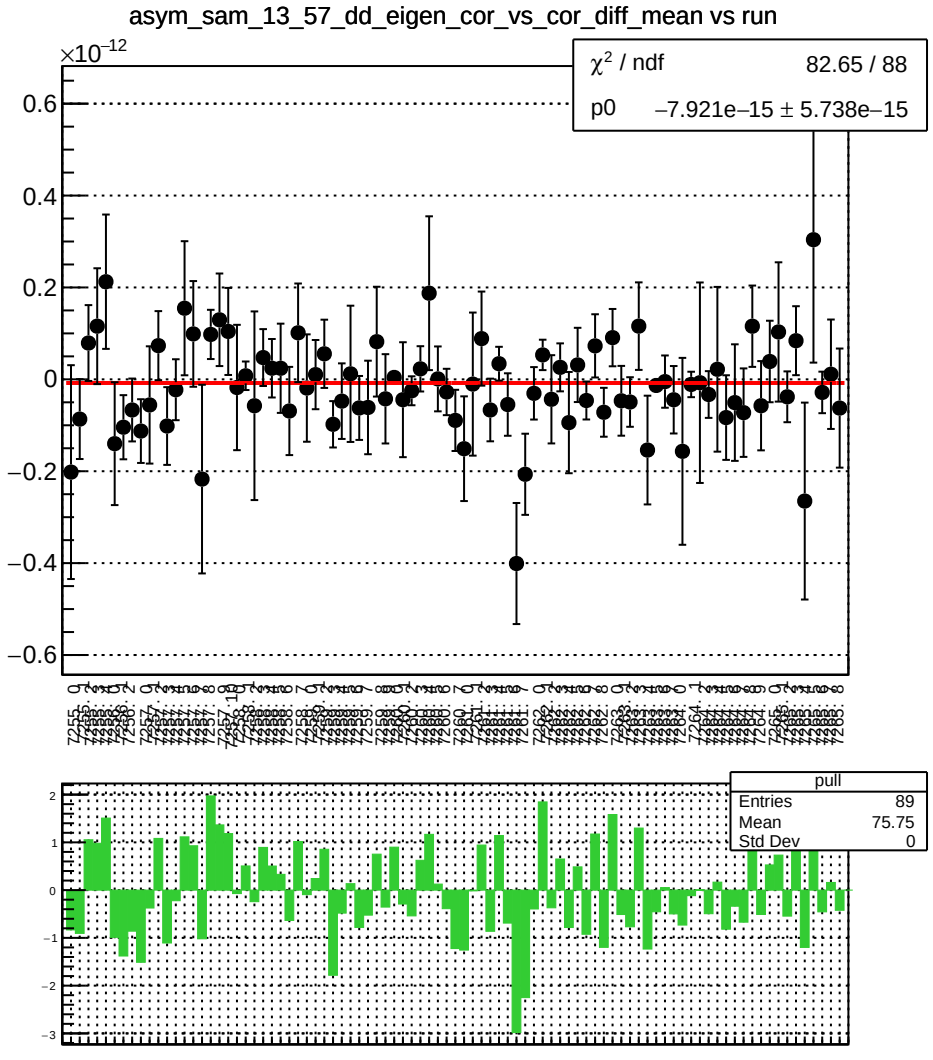

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7434 / 88
p0 0.001178 ± 9.07e–07
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105
0.001

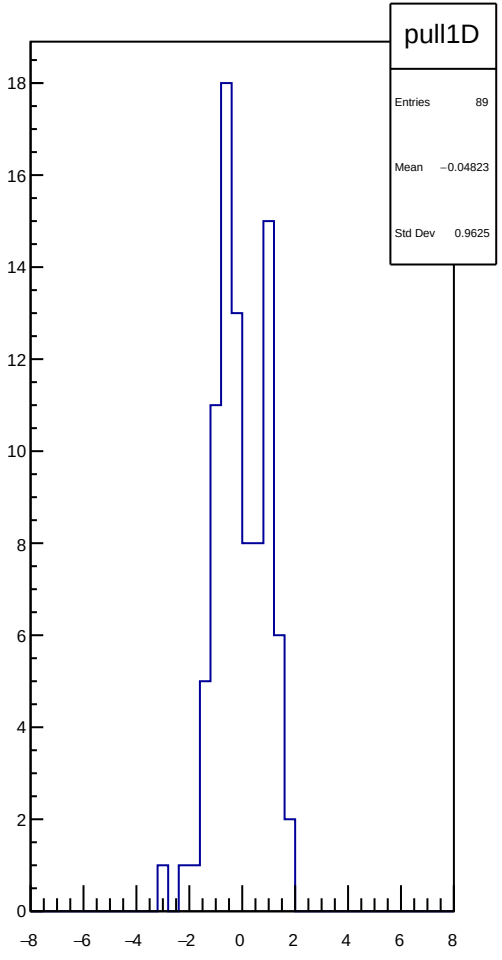

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 88
p0 0.003942 ± 0.01921
pull
Entries 89
Mean 2.204
Std Dev 0
pull1D
Entries 89
Mean 0.02179
Std Dev 1.11

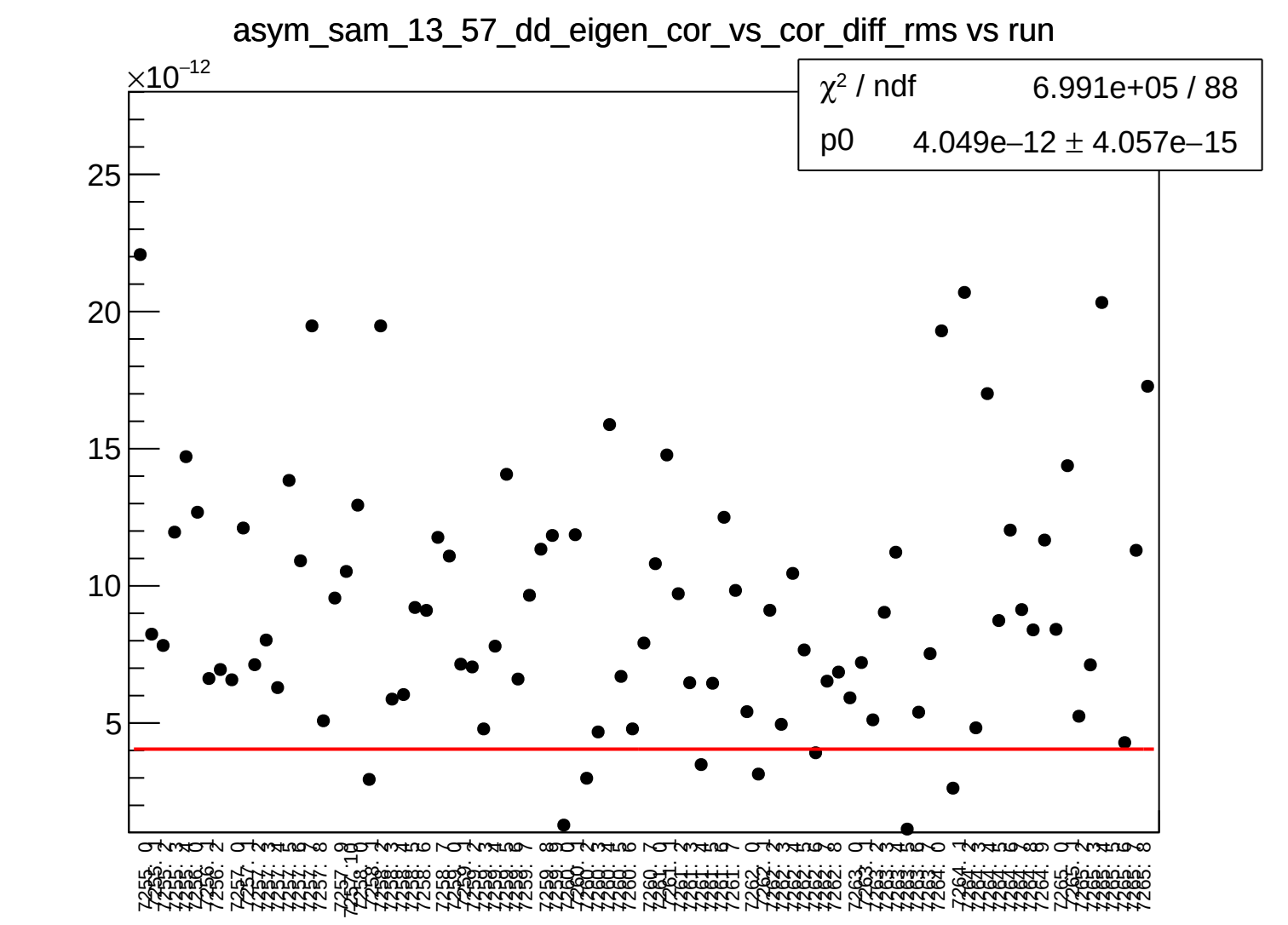

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.621e+04 / 88
p0 17.6 ± 0.01358
26
24
22
20
18
16
14

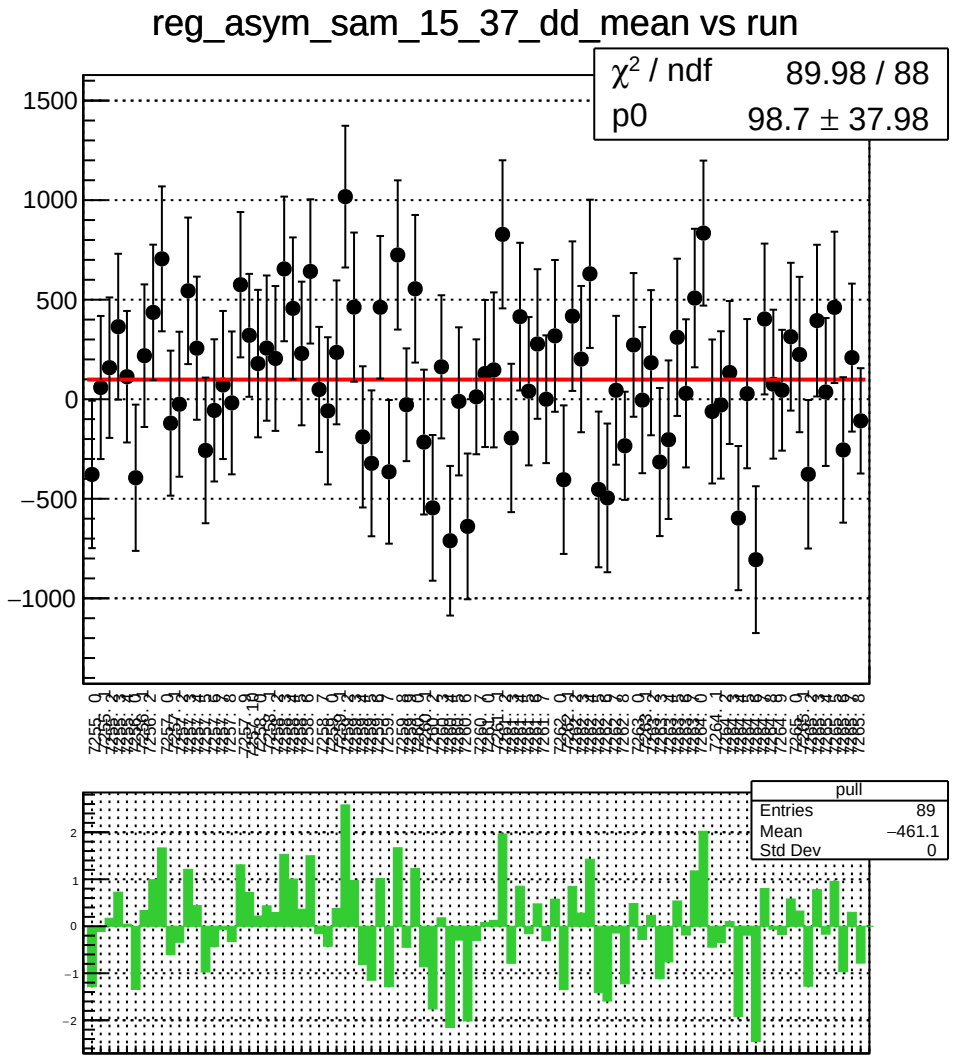

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.7 / 88
p0 0.003942 ± 0.01921
pull
Entries 89
Mean 2.204
Std Dev 0
pull1D
Entries 89
Mean 0.02179
Std Dev 1.11

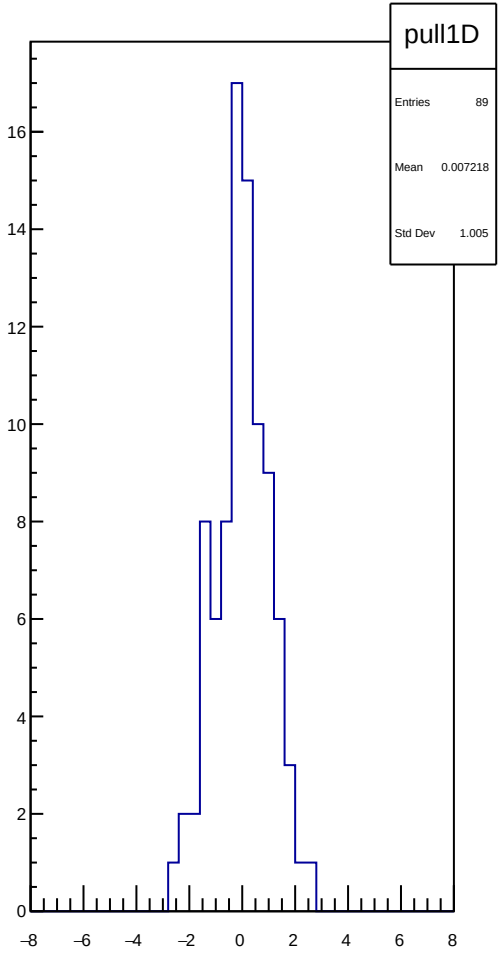

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.621e+04 / 88
p0 17.6 ± 0.01358
26
24
22
20
18
16
14

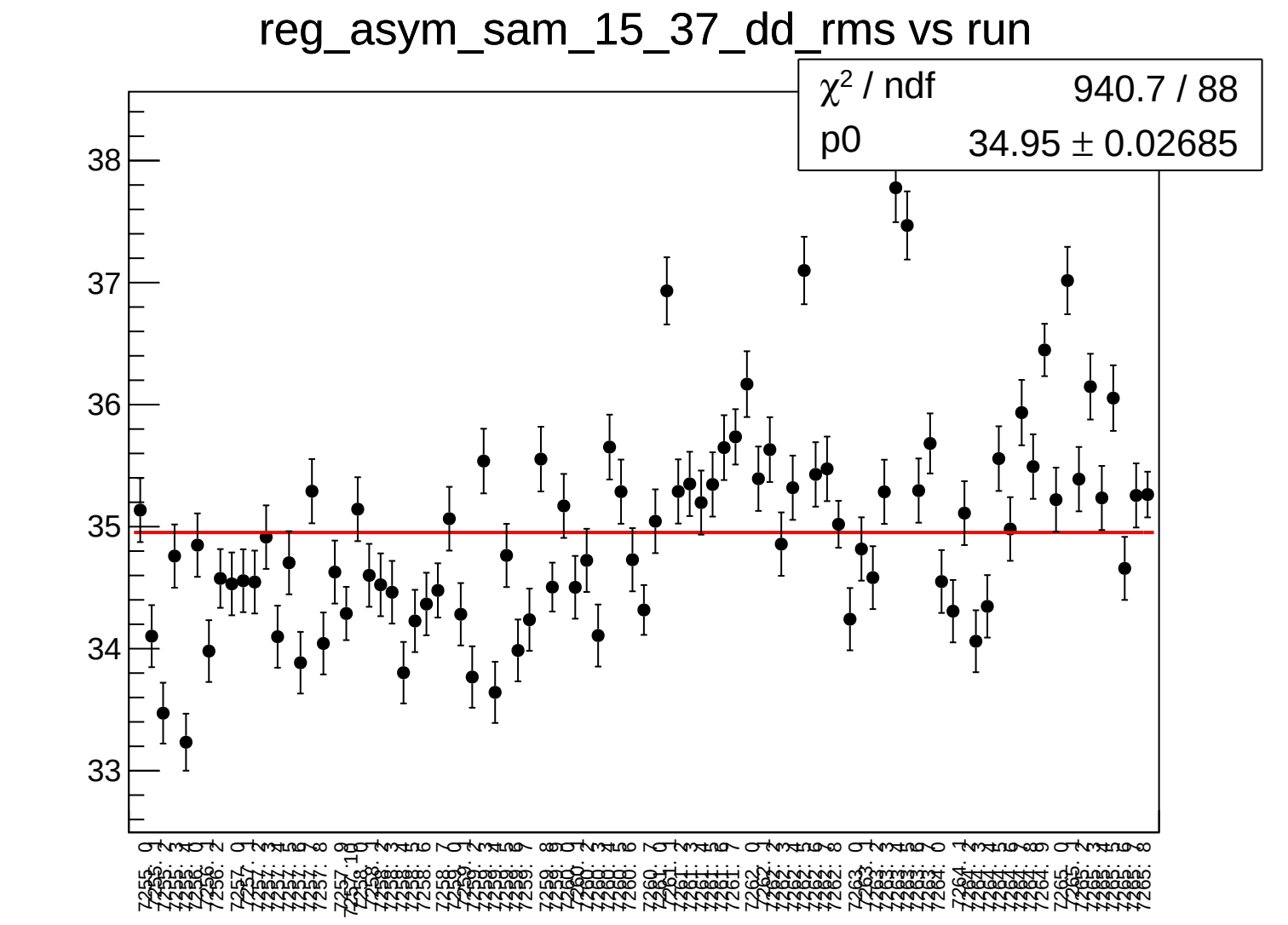

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.65 / 88
p0 −7.921e−15 ± 5.738e−15
pull
Entries 89
Mean 75.75
Std Dev 0

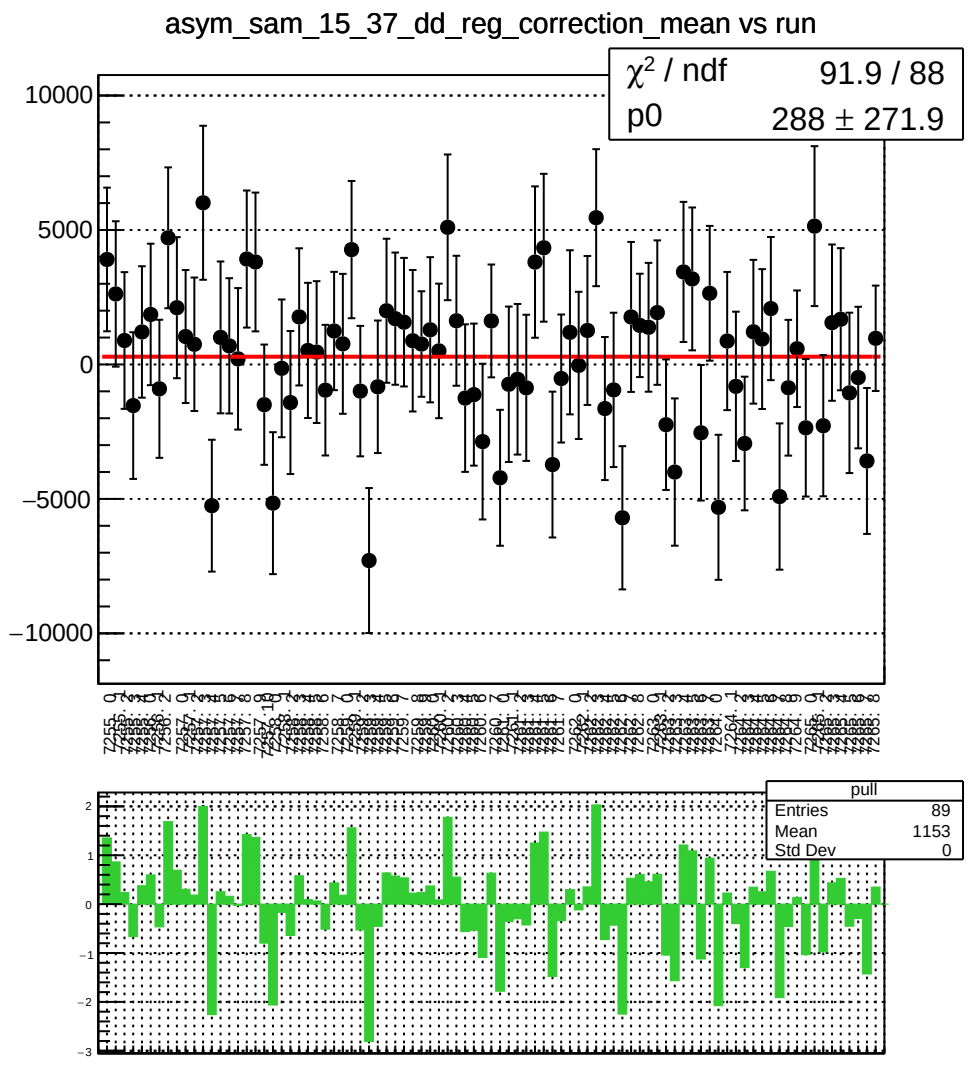

pull1D
Entries 89
Mean −0.04823
Std Dev 0.9625

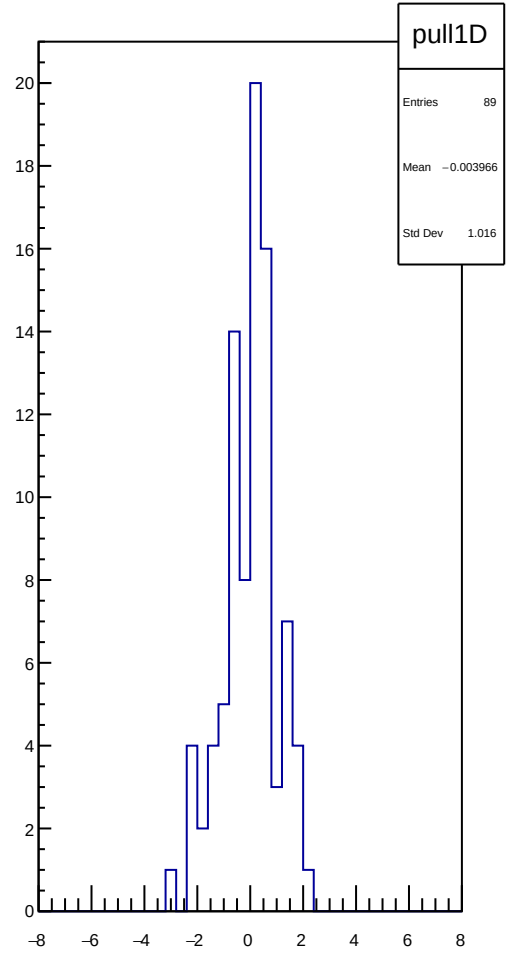

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.991e+05 / 88
p0 4.049e−12 ± 4.057e−15
25
20
15
10
5

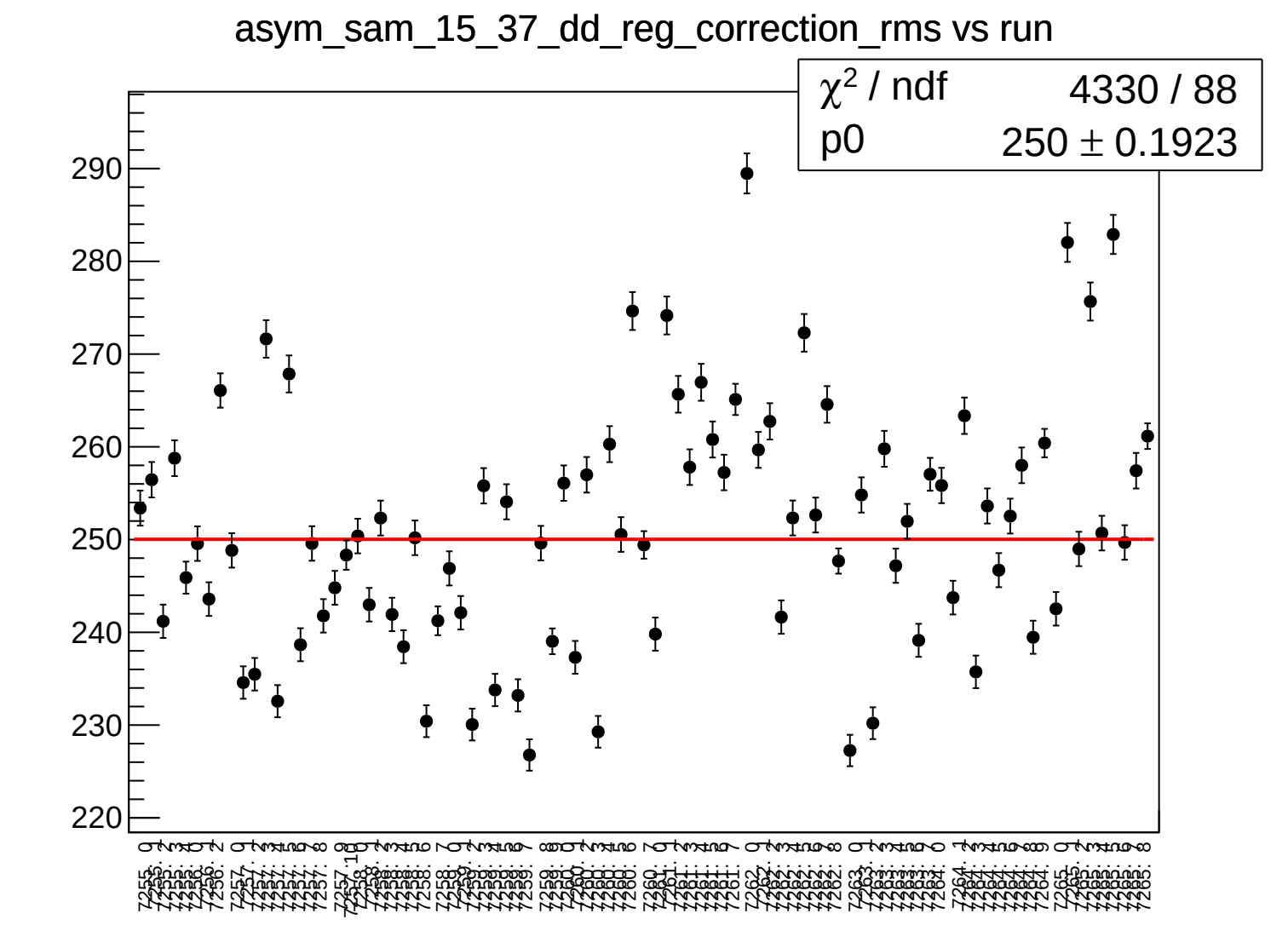

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 89.98 / 88
p0 98.7 ± 37.98
pull
Entries 89
Mean −461.1
Std Dev 0

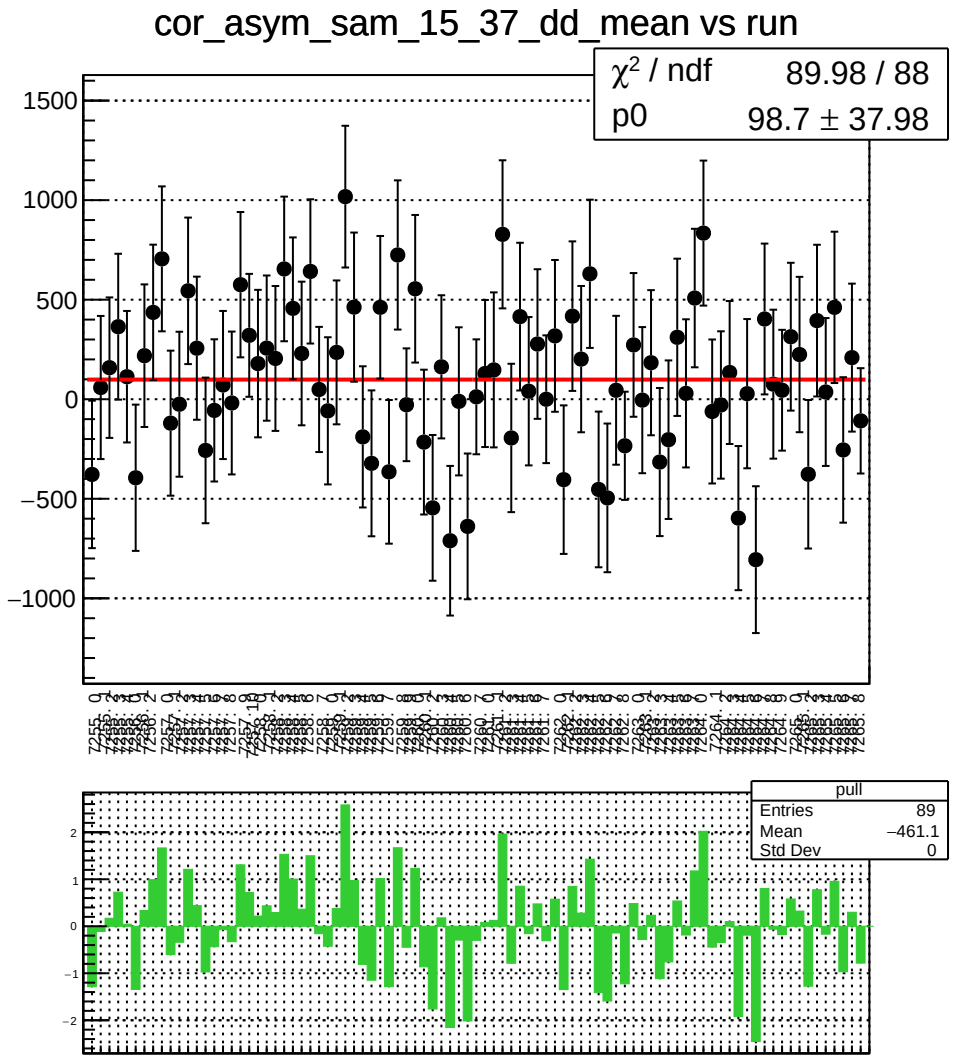

pull1D
Entries 89
Mean 0.007218
Std Dev 1.005

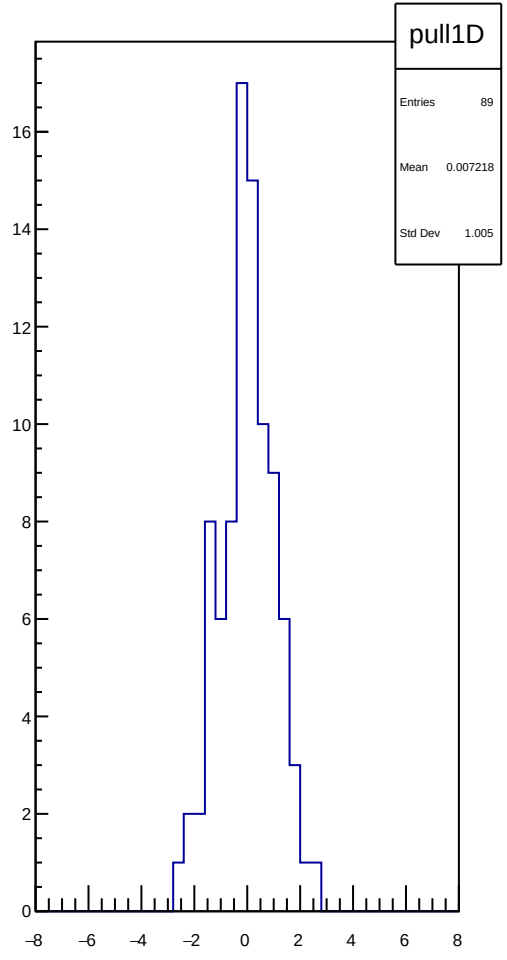

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 940.7 / 88
p0 34.95 ± 0.02685
38
37
36
35
34
33

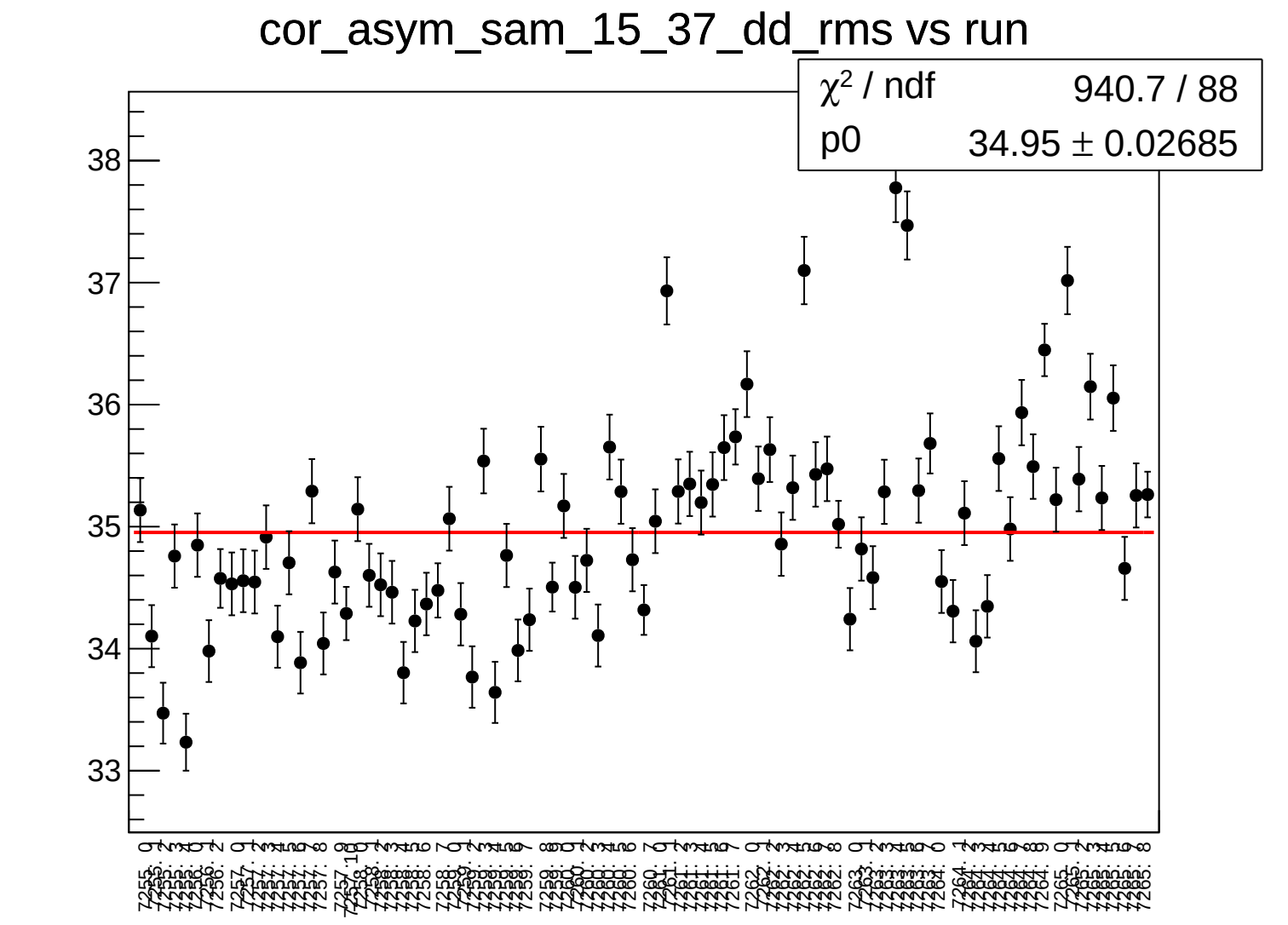

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 91.9 / 88
p0 288 ± 271.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1153
Std Dev 0
2
1
0
−1
−2
−3

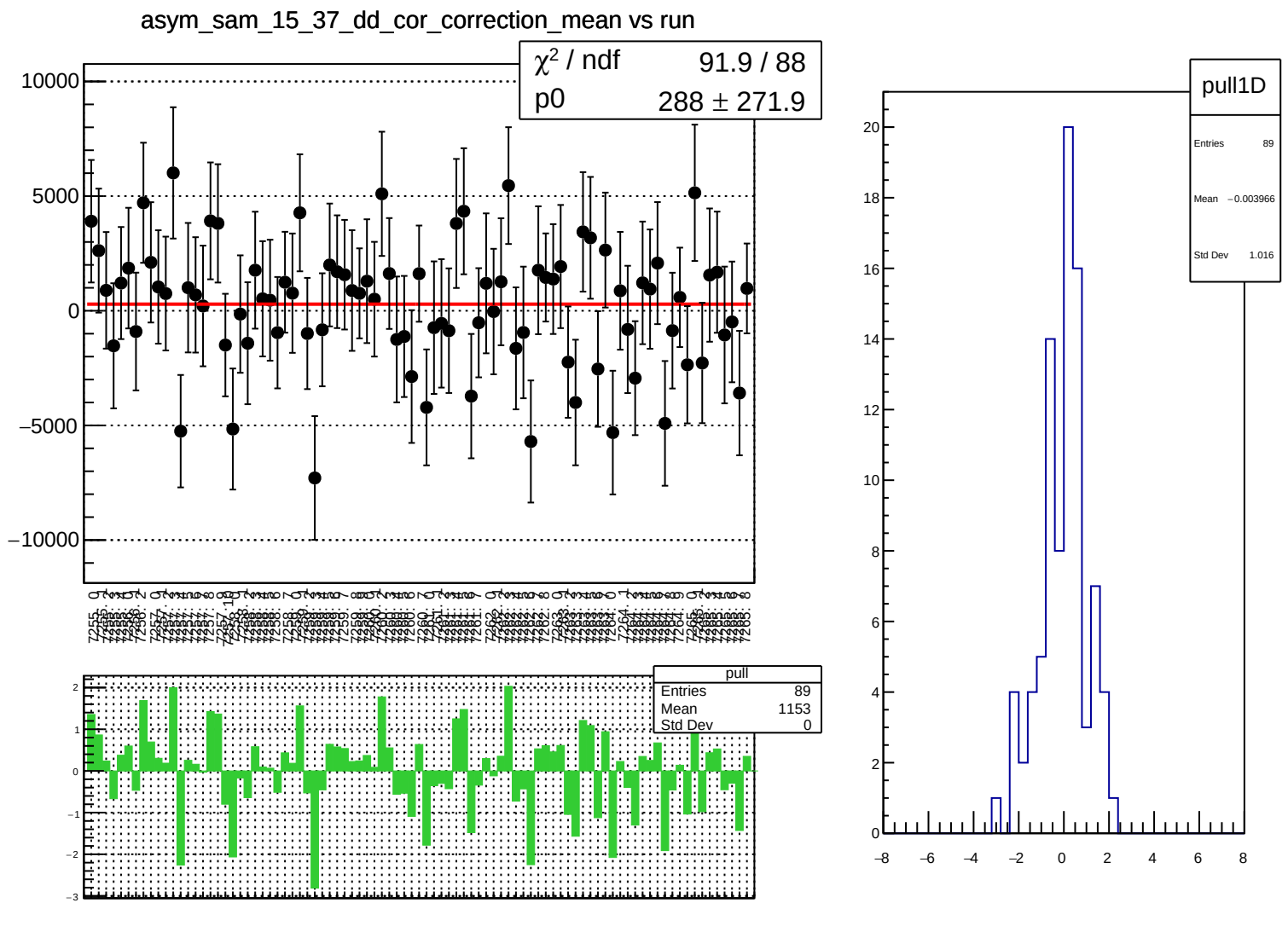

pull1D
Entries 89
Mean −0.003966
Std Dev 1.016
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

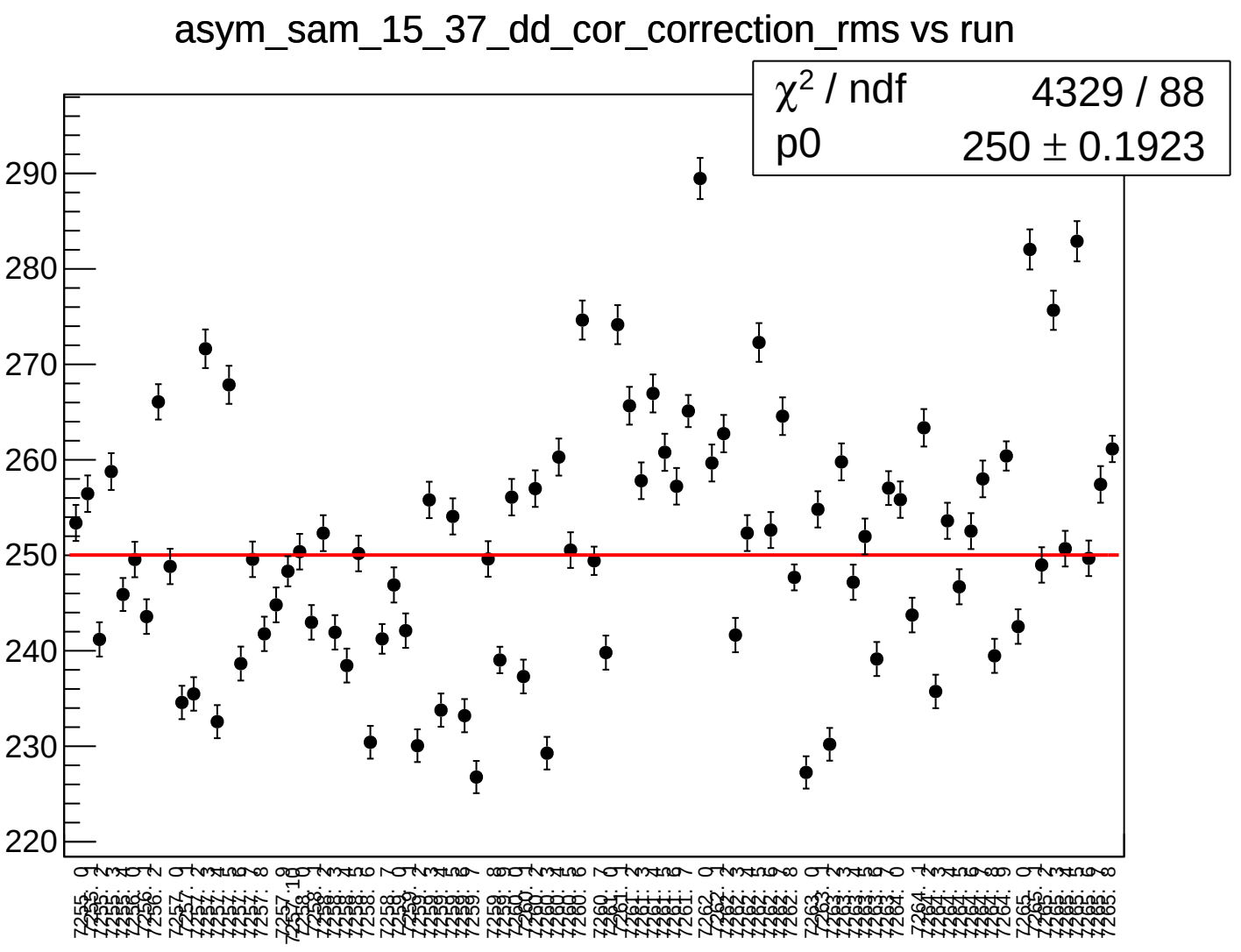

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 4330 / 88
p0 250 ± 0.1923
290
280
270
260
250
240
230
220

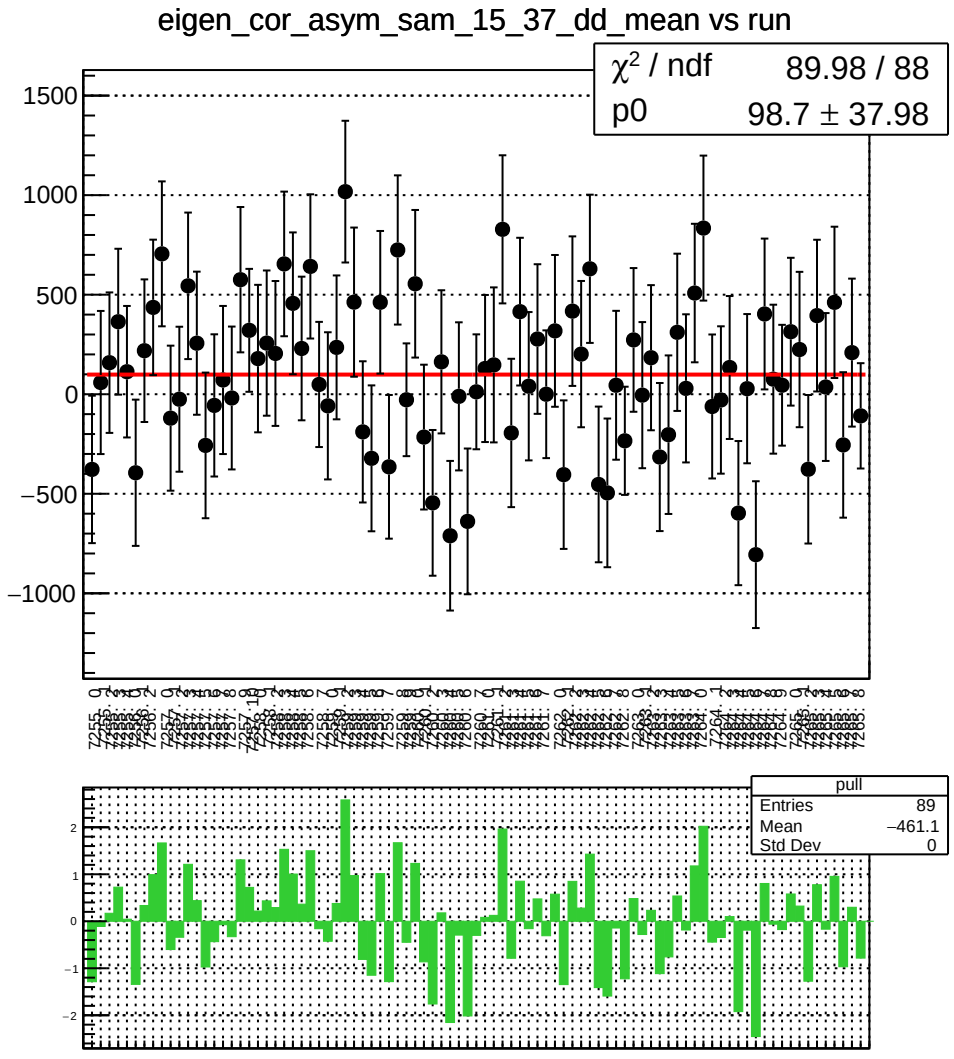

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 89.98 / 88
p0 98.7 ± 37.98
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean −461.1
Std Dev 0
2
1
0
−1
−2

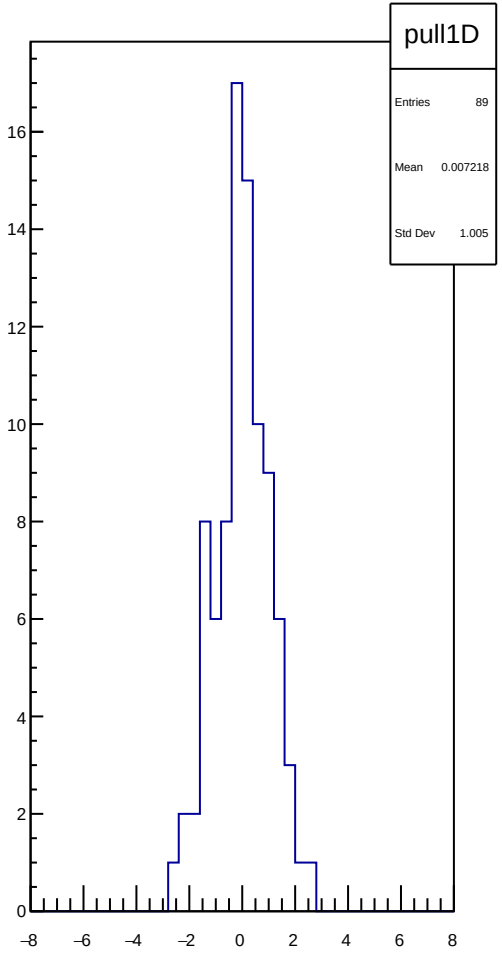

pull1D
Entries 89
Mean 0.007218
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

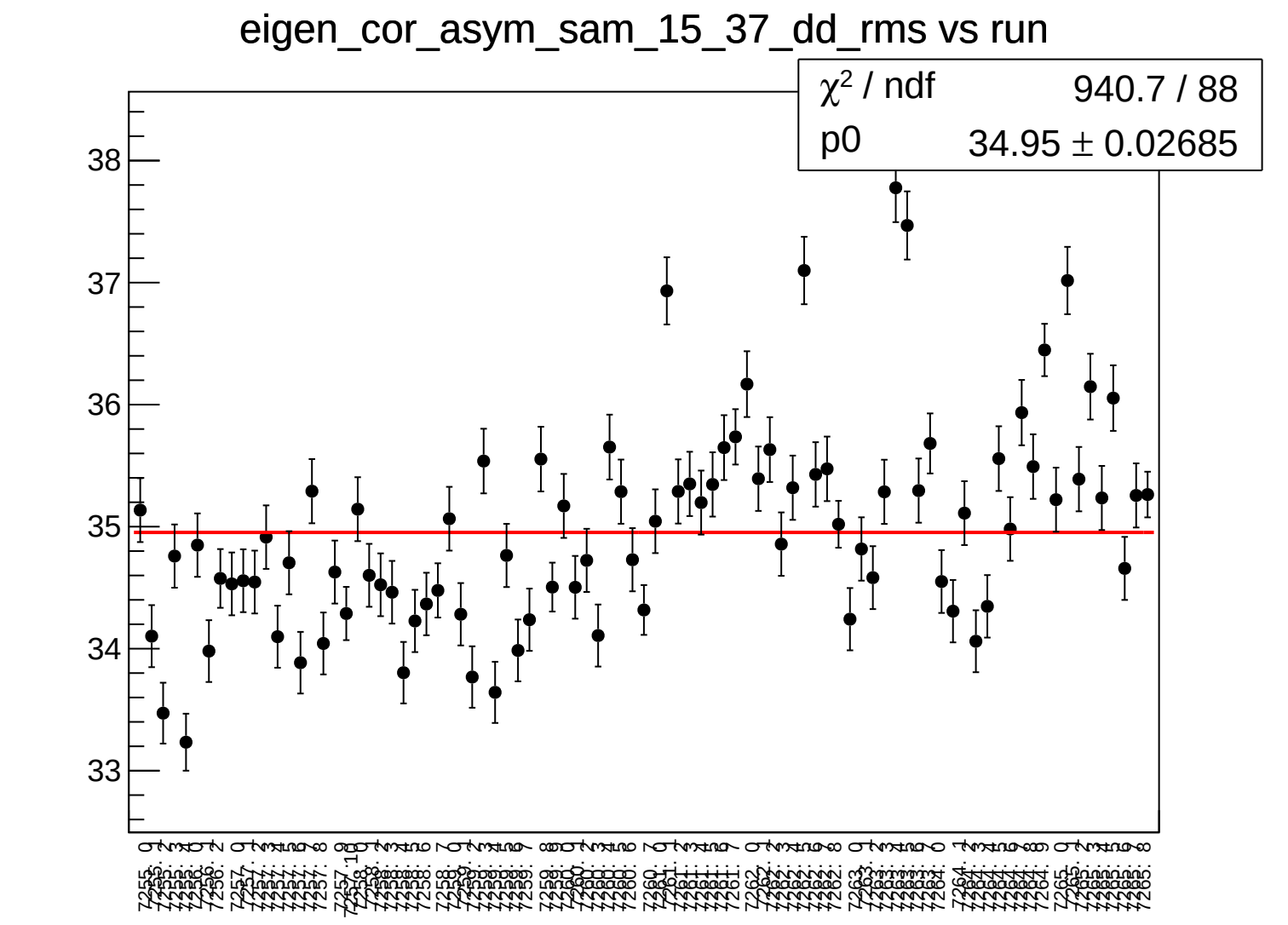

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 940.7 / 88
p0 34.95 ± 0.02685
38
37
36
35
34
33

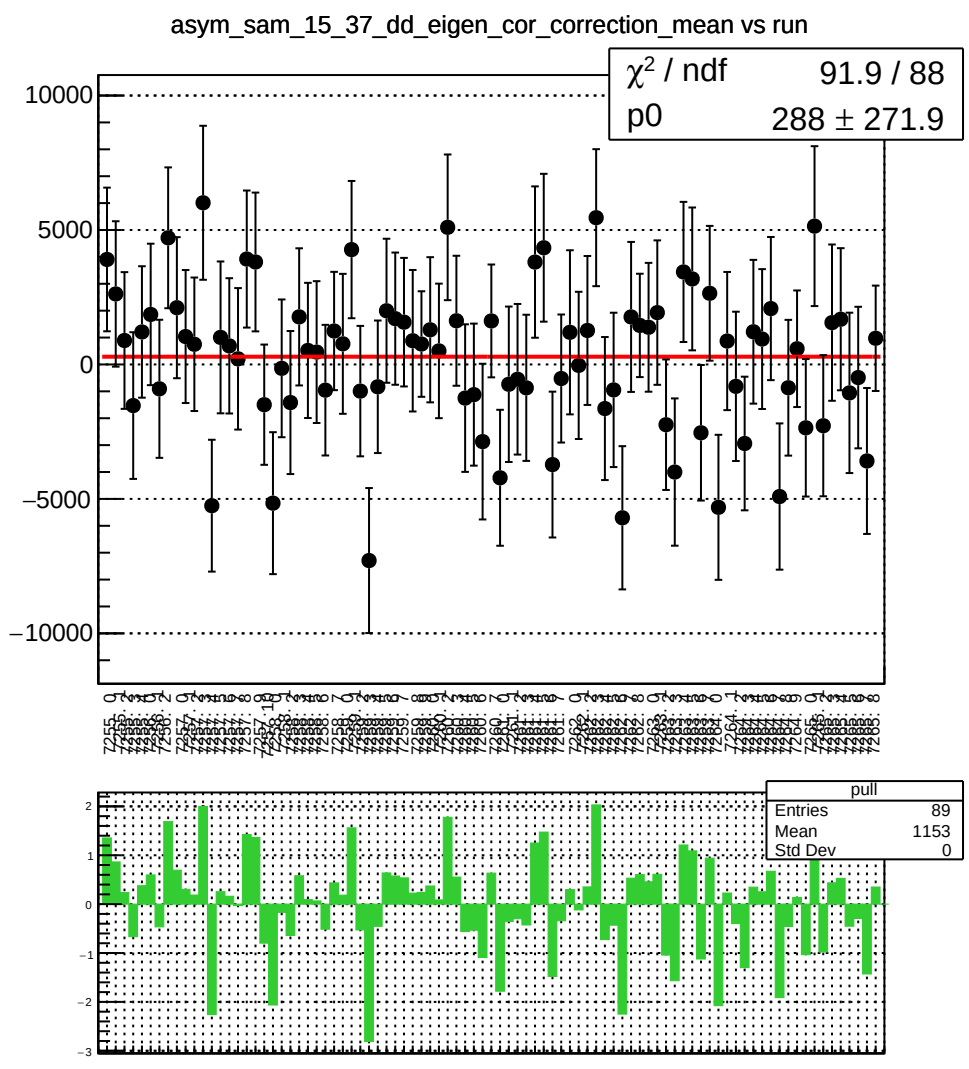

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 91.9 / 88
p0 288 ± 271.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1153
Std Dev 0
pull1D
Entries 89
Mean −0.003966
Std Dev 1.016

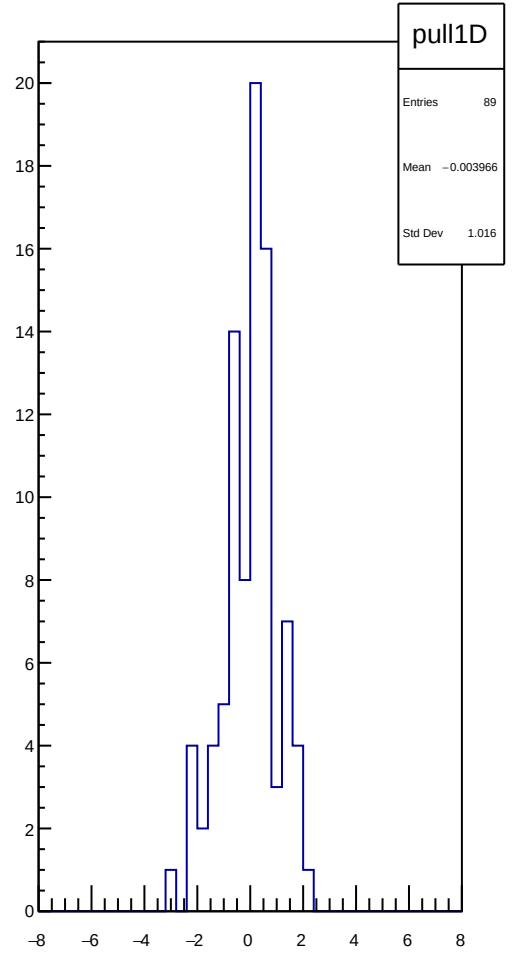

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 4329 / 88
p0 250 ± 0.1923
290
280
270
260
250
240
230
220

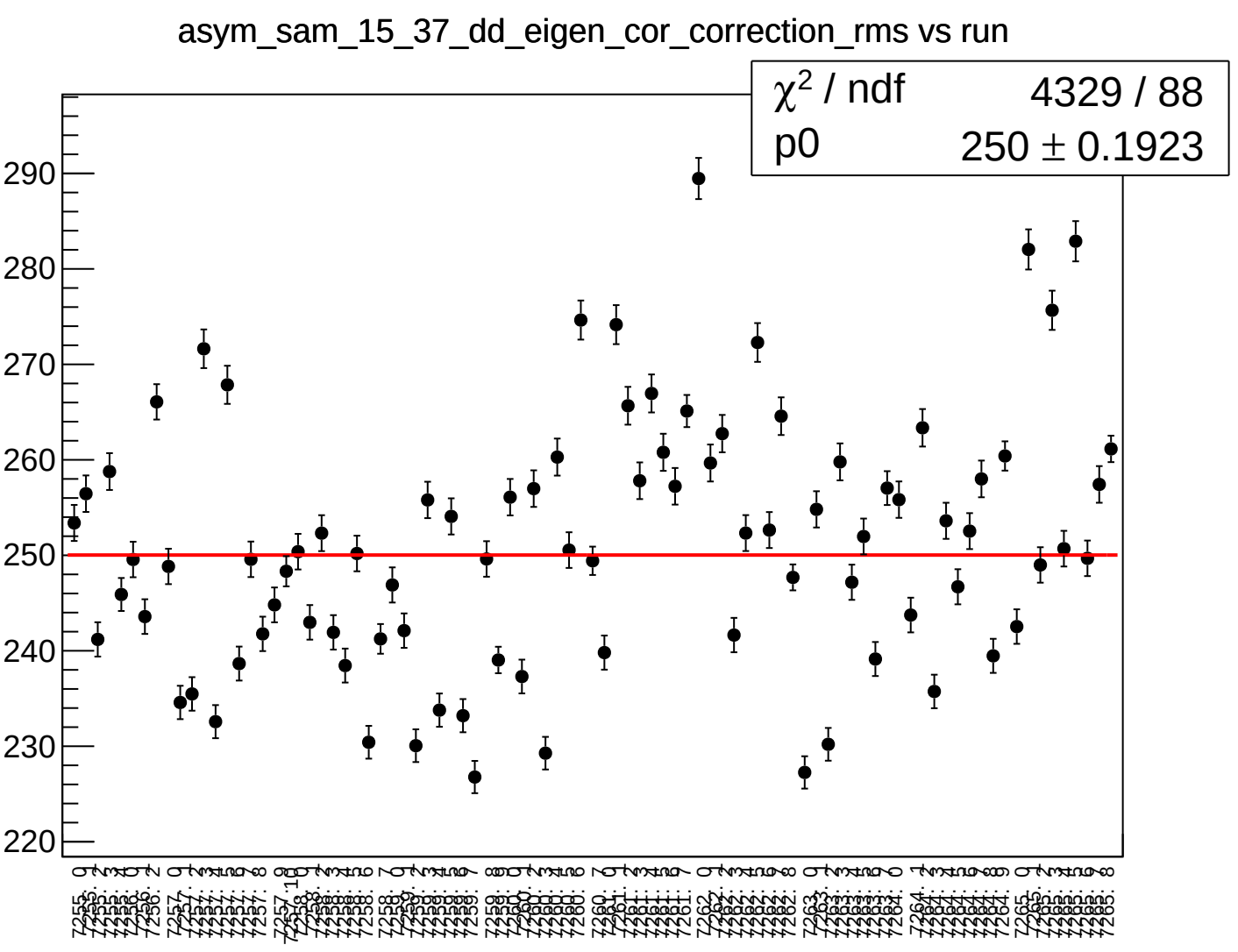

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 89.98 / 88
p0 98.7 ± 37.98
pull
Entries 89
Mean −461.1
Std Dev 0

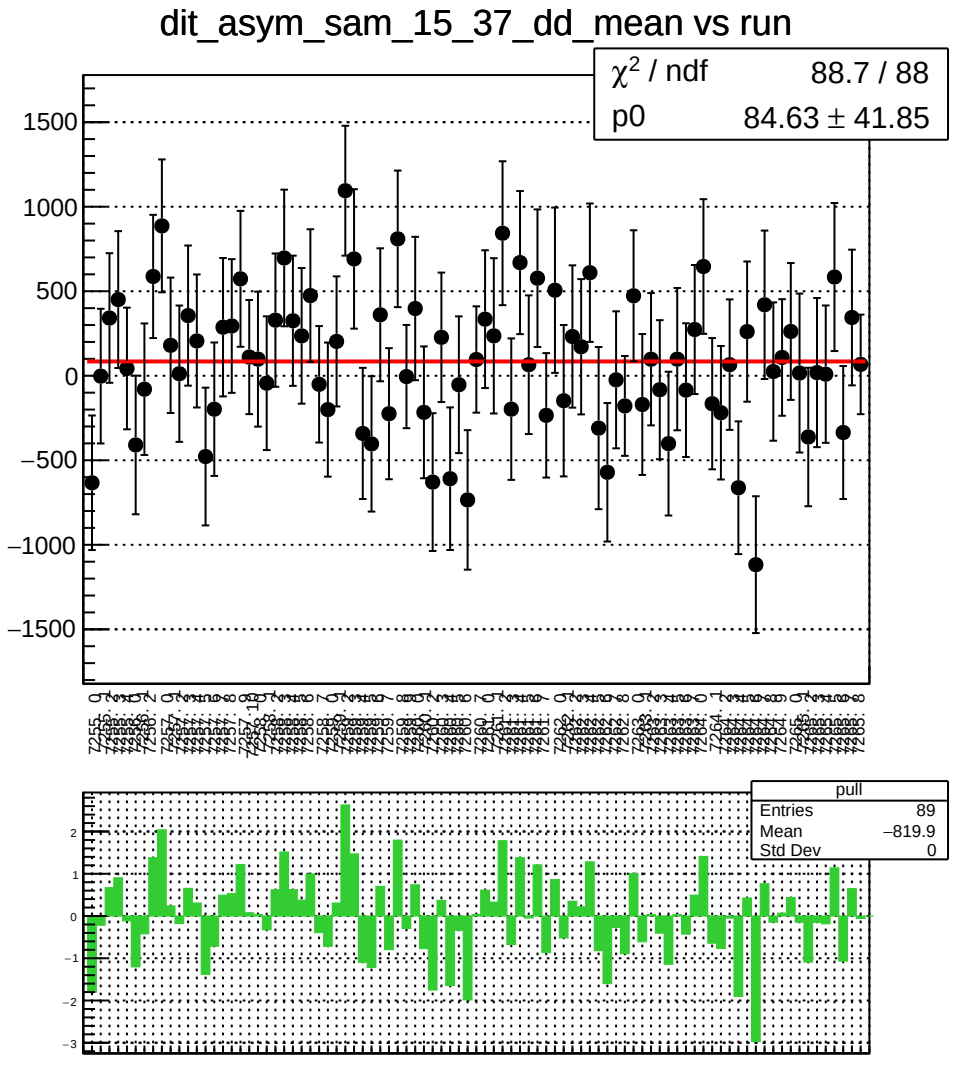

pull1D
Entries 89
Mean 0.007218
Std Dev 1.005

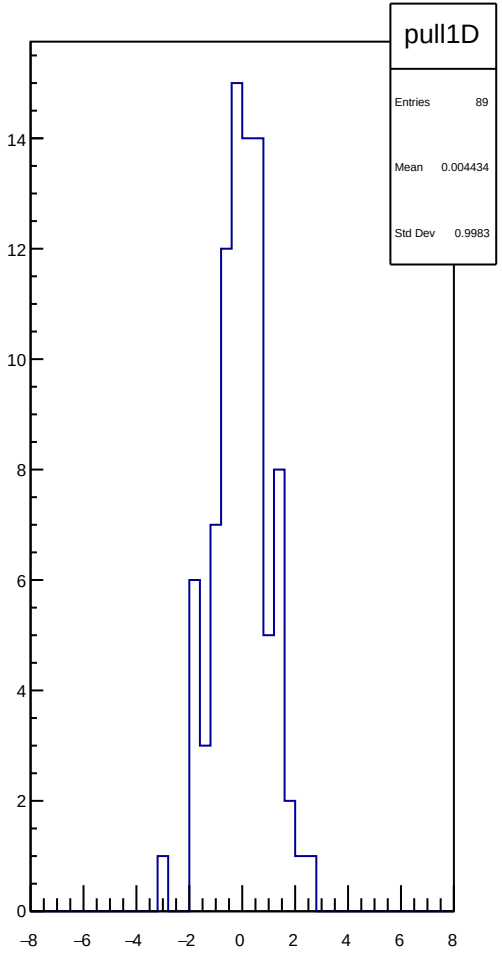

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 940.7 / 88
p0 34.95 ± 0.02685
38
37
36
35
34
33

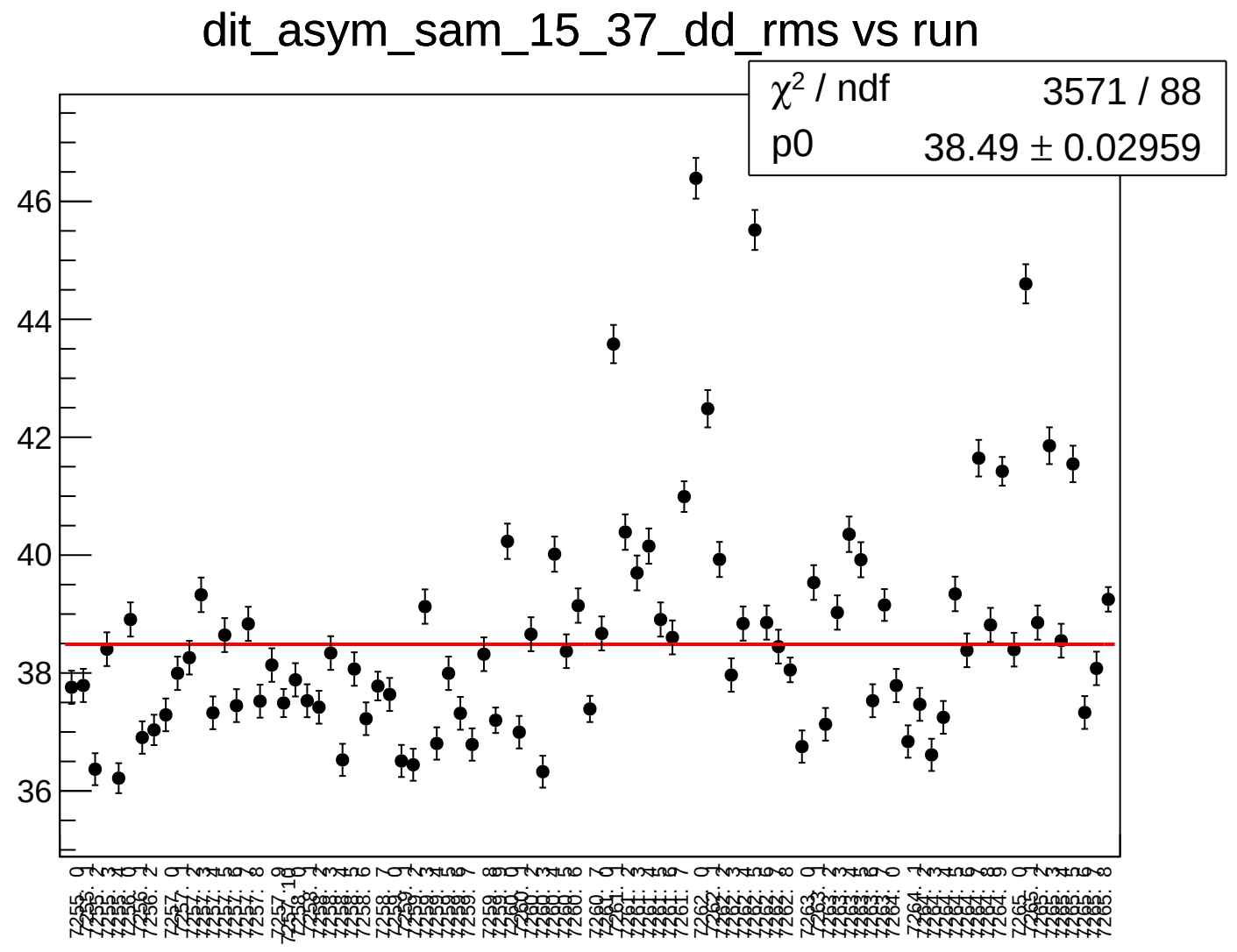

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.9 / 88
p0 288 ± 271.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1153
Std Dev 0
2
1
0
−1
−2
−3

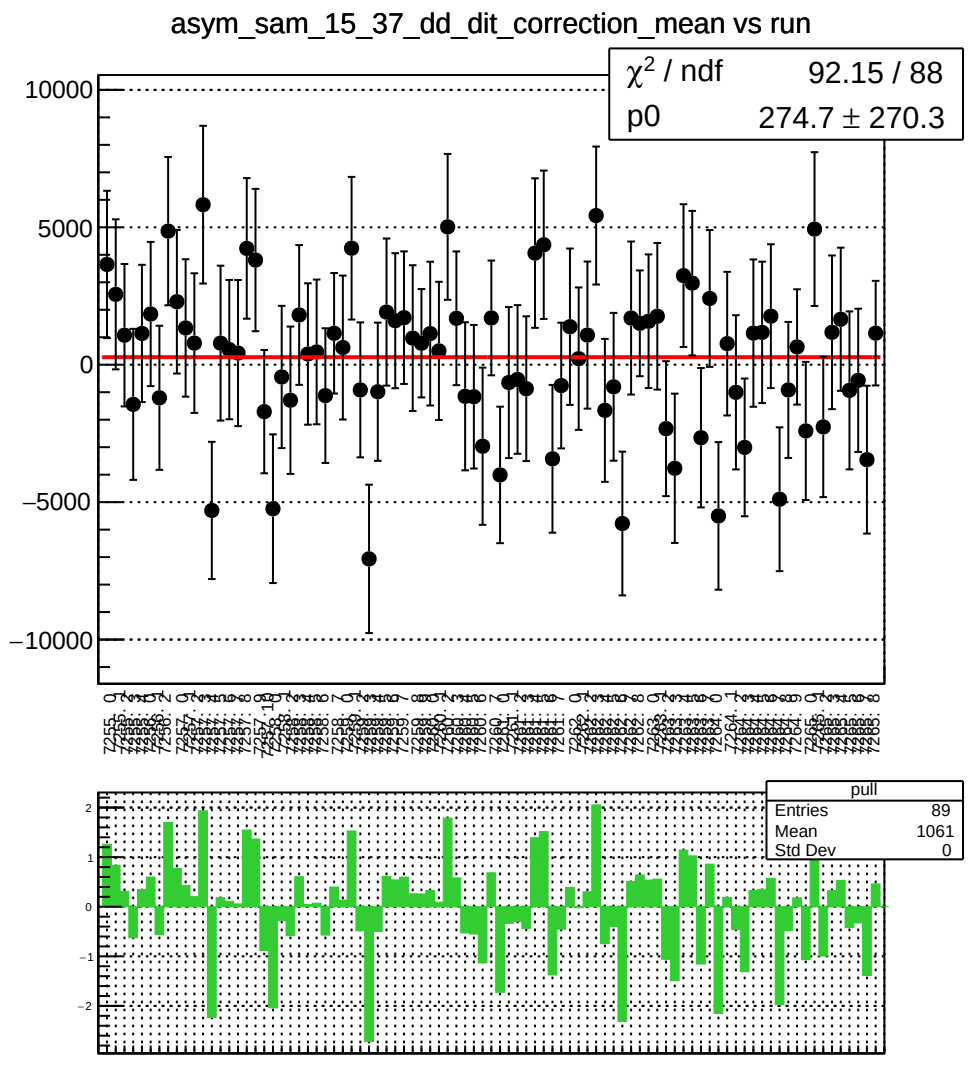

pull1D
Entries 89
Mean −0.003966
Std Dev 1.016
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

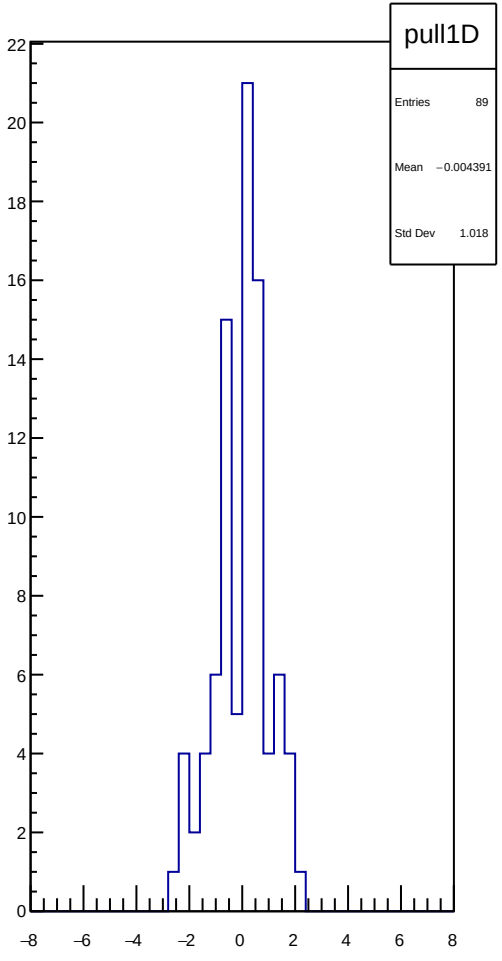

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 4329 / 88
p0 250 ± 0.1923
290
280
270
260
250
240
230
220

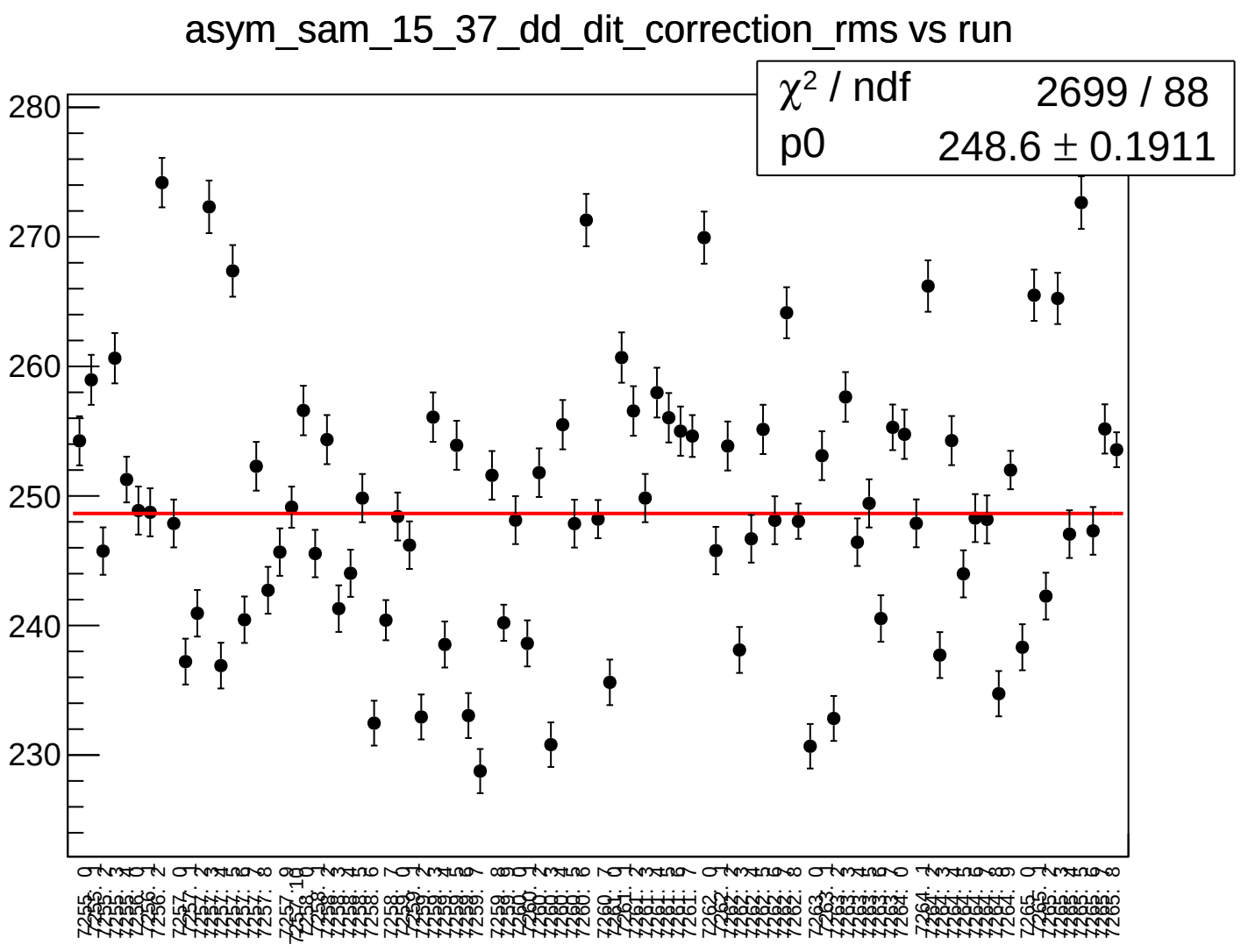

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 88.7 / 88
p0 84.63 ± 41.85
pull
Entries 89
Mean −819.9
Std Dev 0

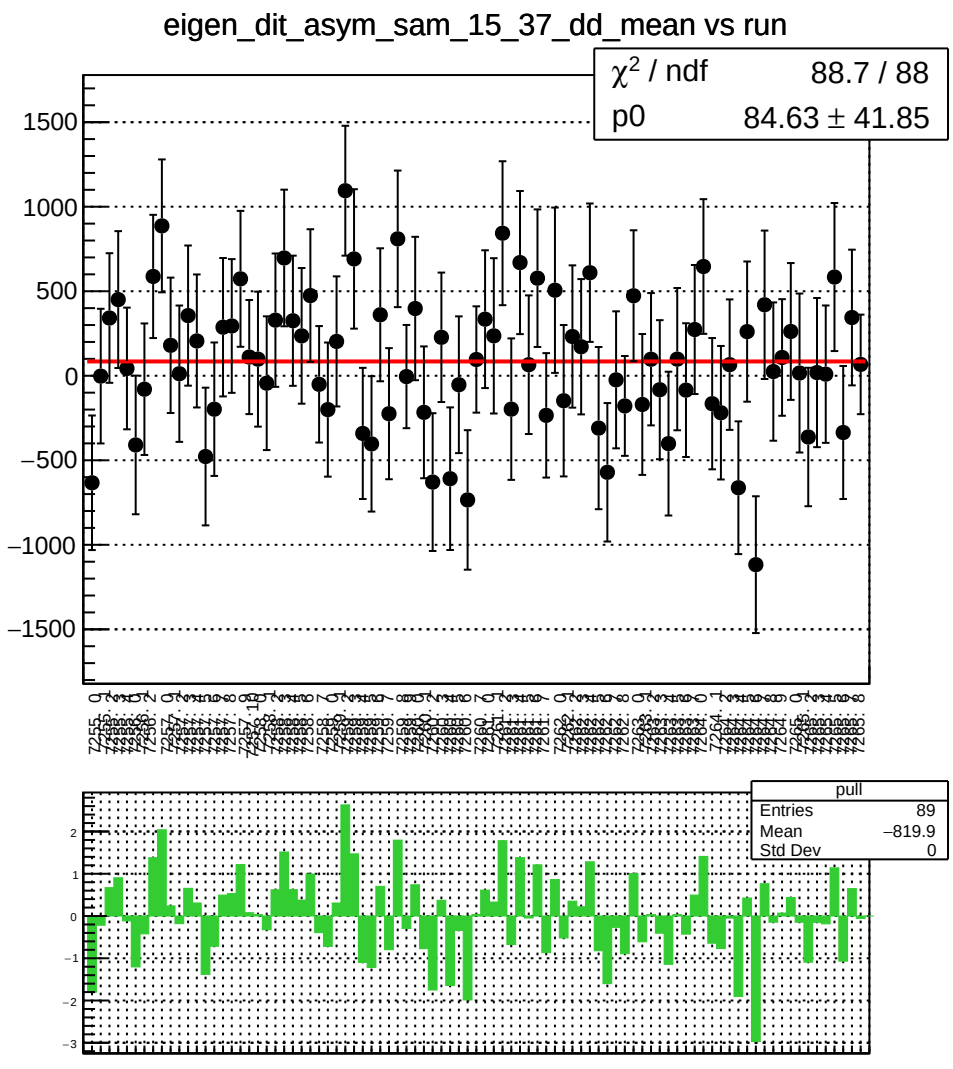

pull1D
Entries 89
Mean 0.004434
Std Dev 0.9983

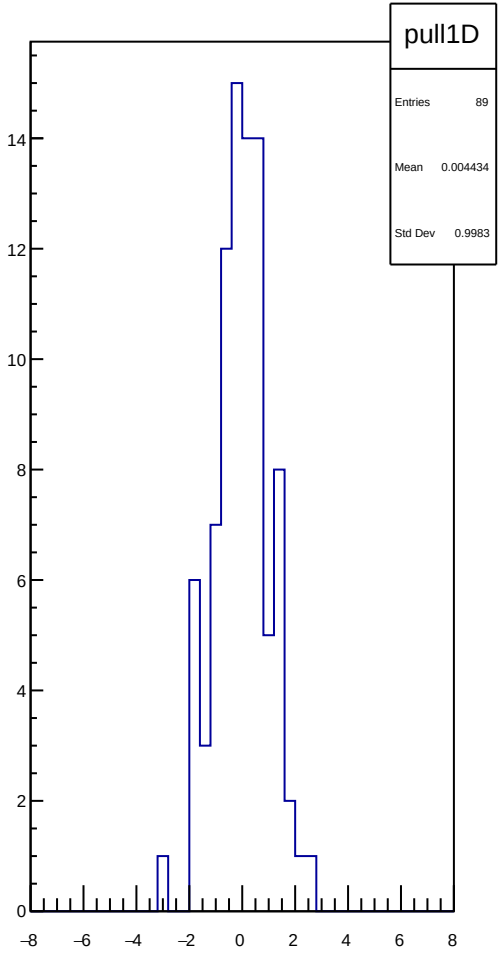

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 3571 / 88
p0 38.49 ± 0.02959
46
44
42
40
38
36

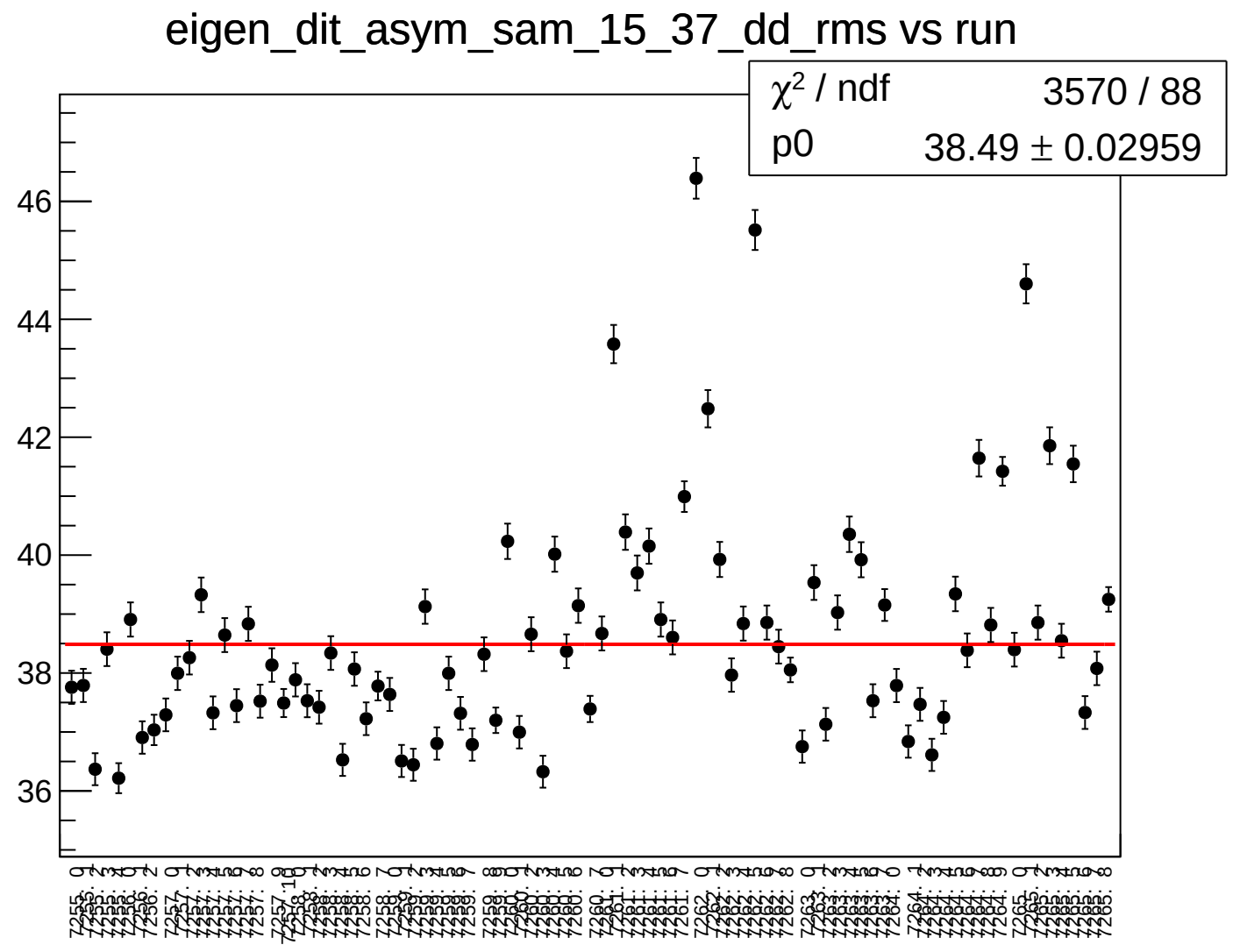

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 92.15 / 88
p0 274.7 ± 270.3
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1061
Std Dev 0
2
1
0
−1
−2

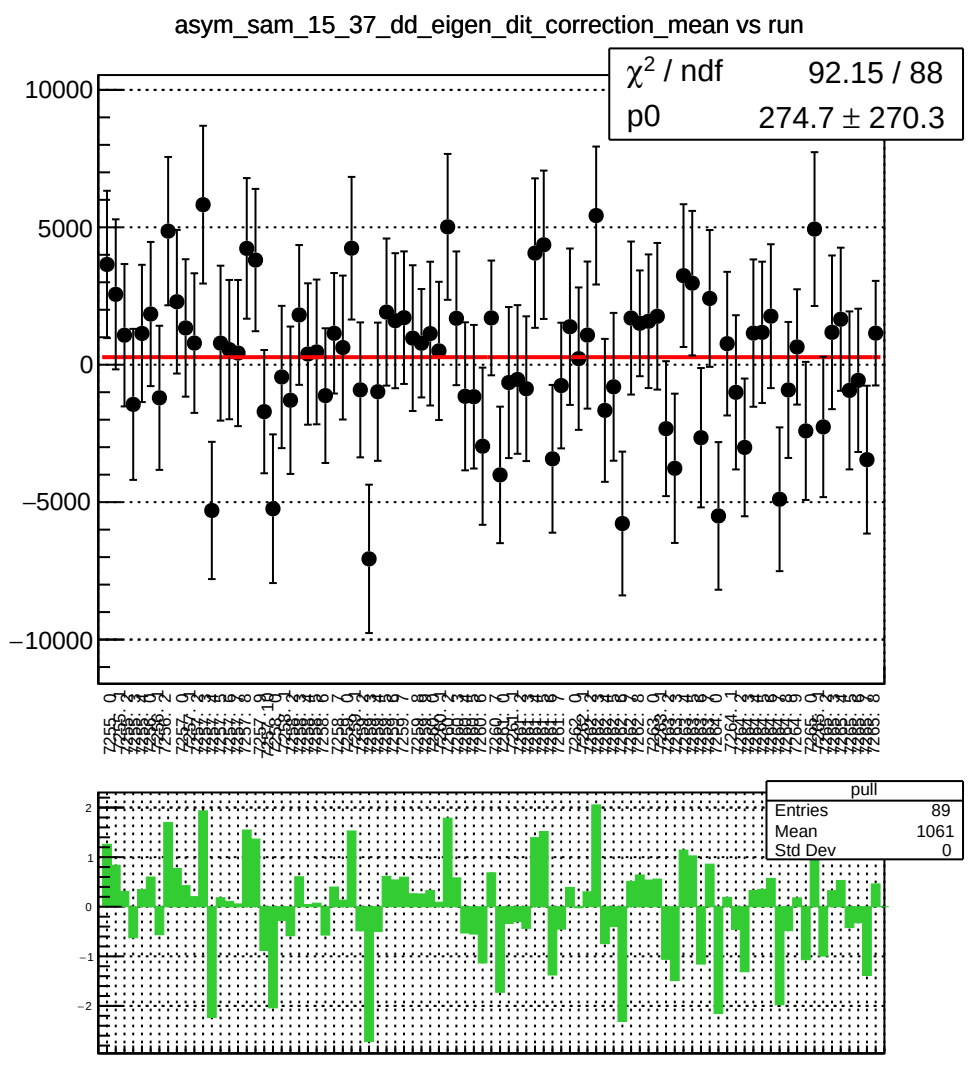

pull1D
Entries 89
Mean −0.004391
Std Dev 1.018
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

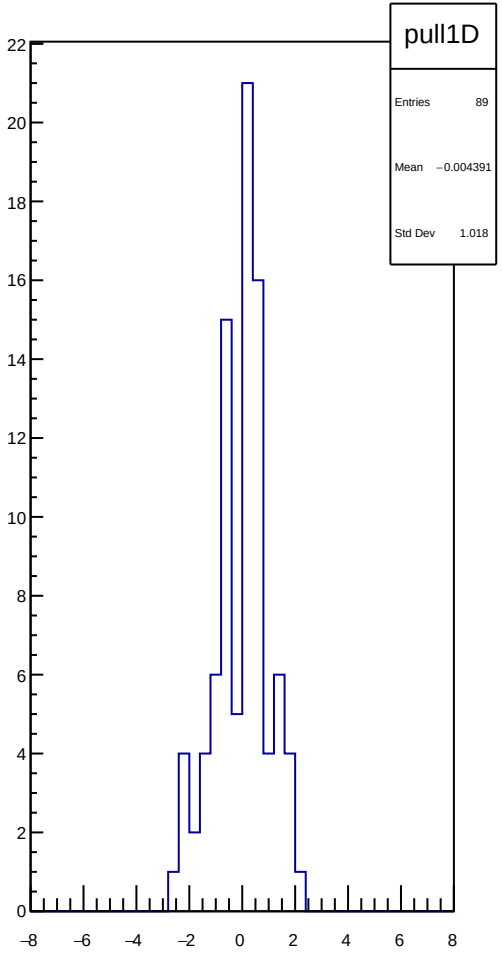

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 2699 / 88
p0 248.6 ± 0.1911
280
270
260
250
240
230

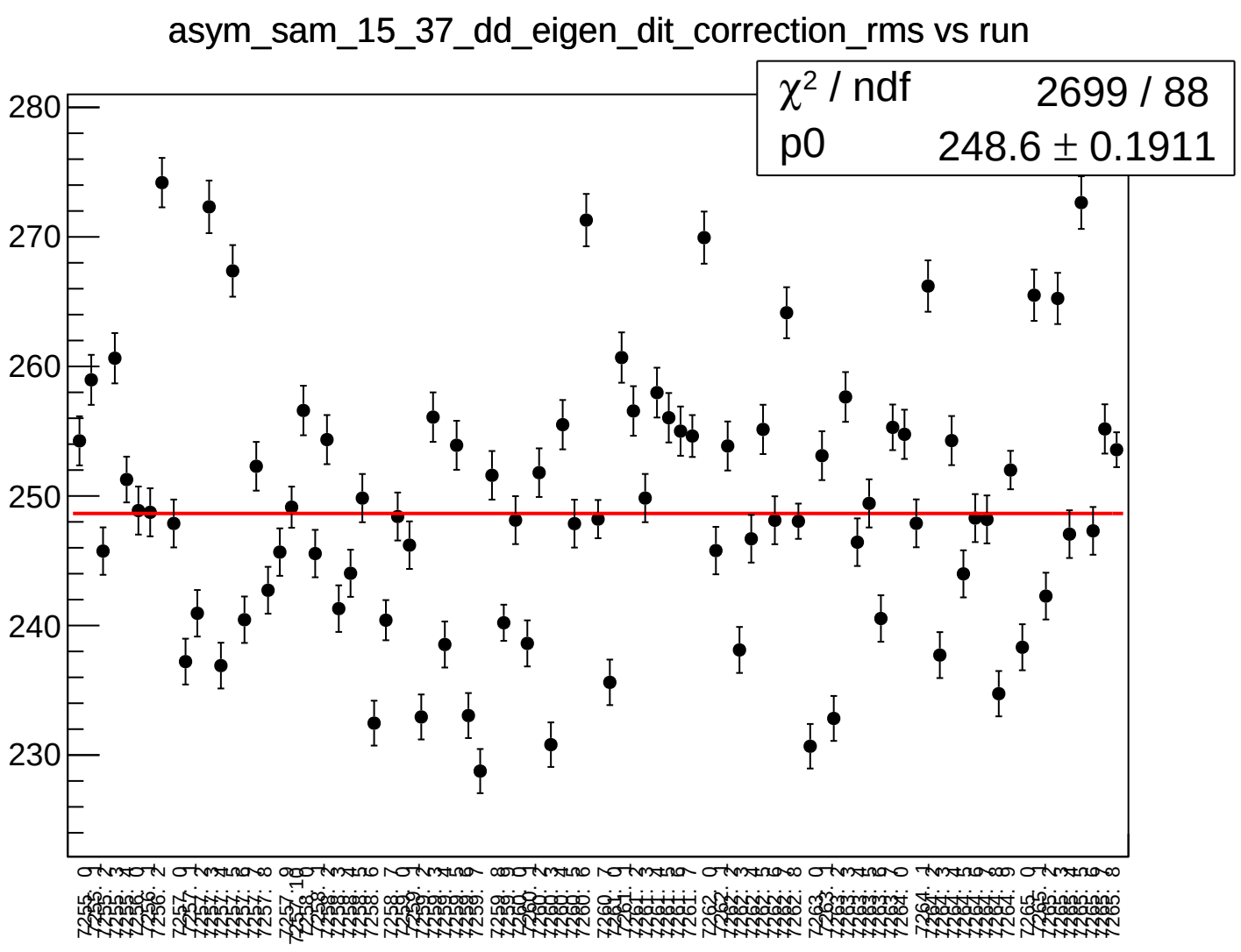

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 88.7 / 88
p0 84.63 ± 41.85
pull
Entries 89
Mean −819.9
Std Dev 0

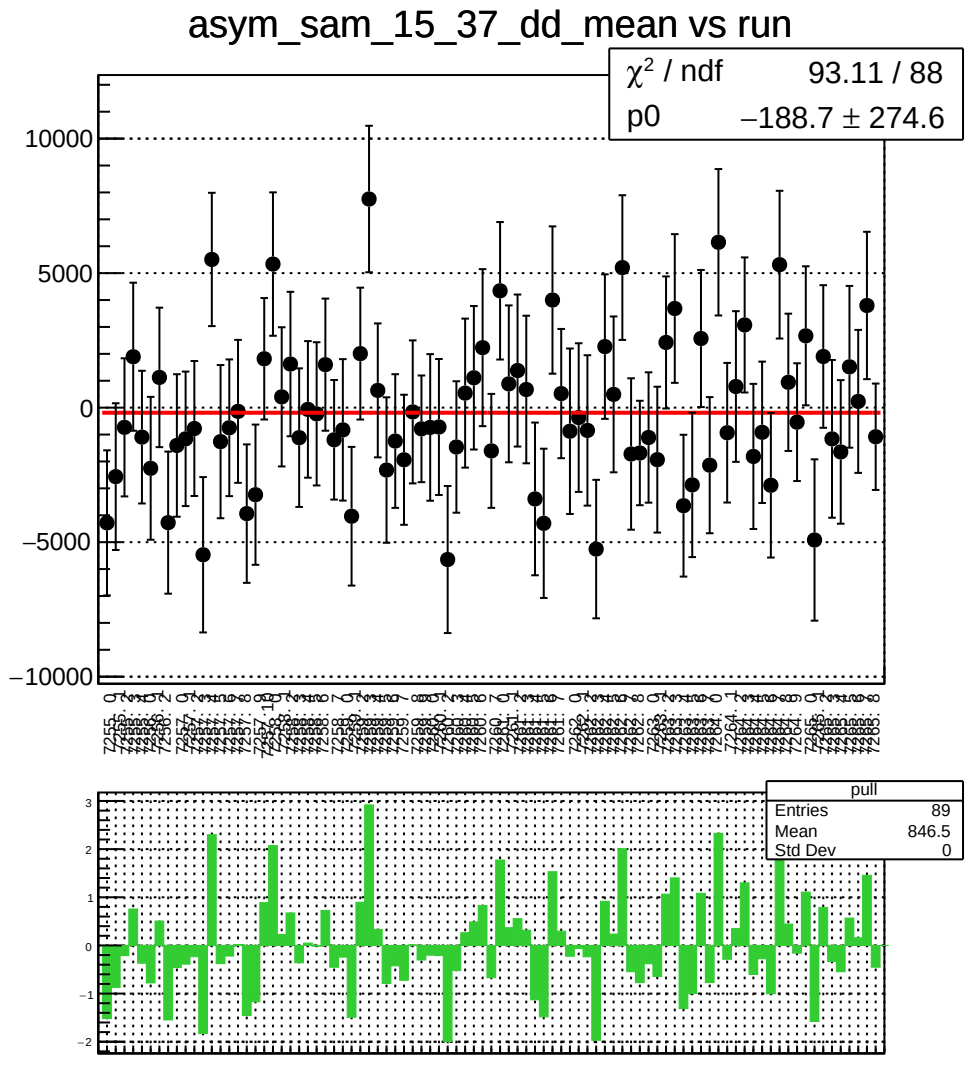

pull1D
Entries 89
Mean 0.004434
Std Dev 0.9983

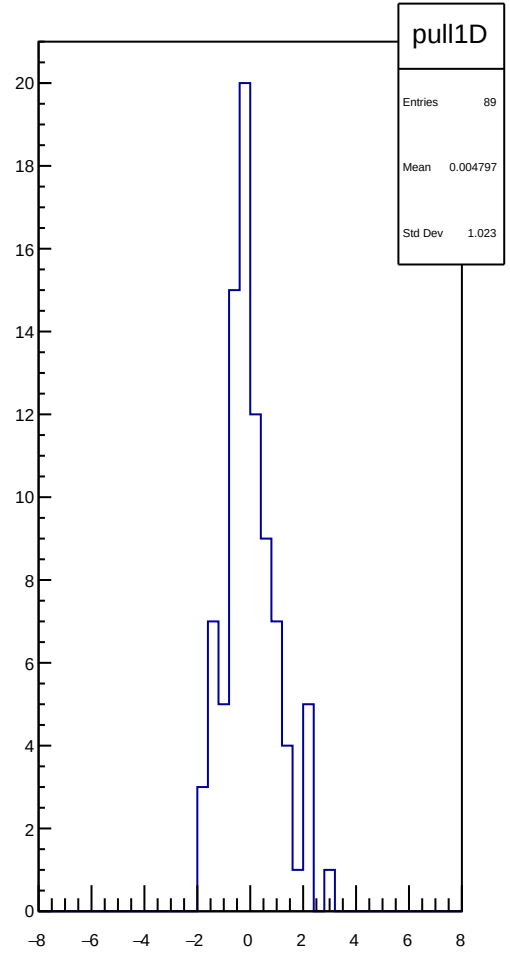

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 3570 / 88
p0 38.49 ± 0.02959
46
44
42
40
38
36

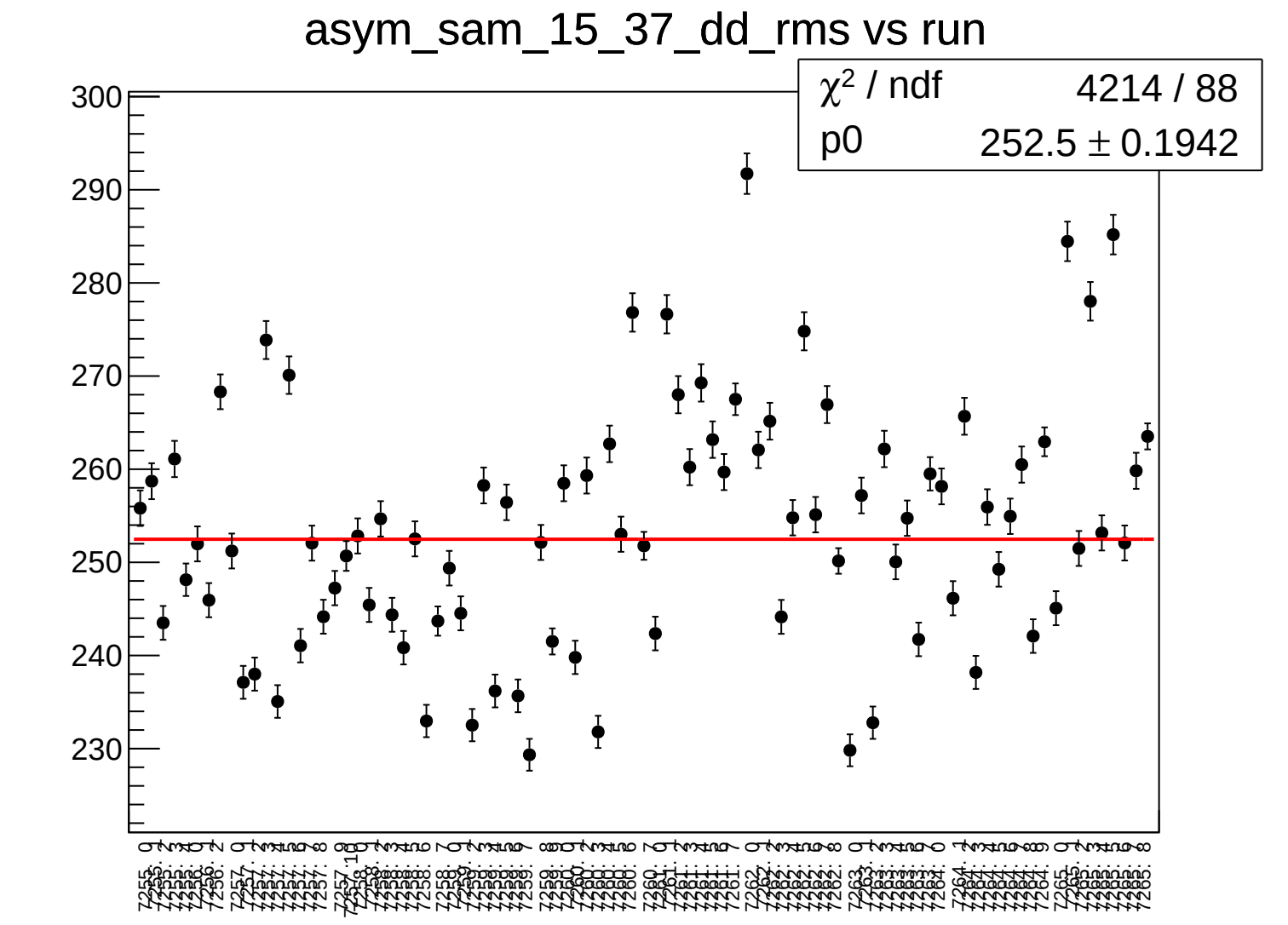

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.15 / 88
p0 274.7 ± 270.3
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1061
Std Dev 0
2
1
0
−1
−2

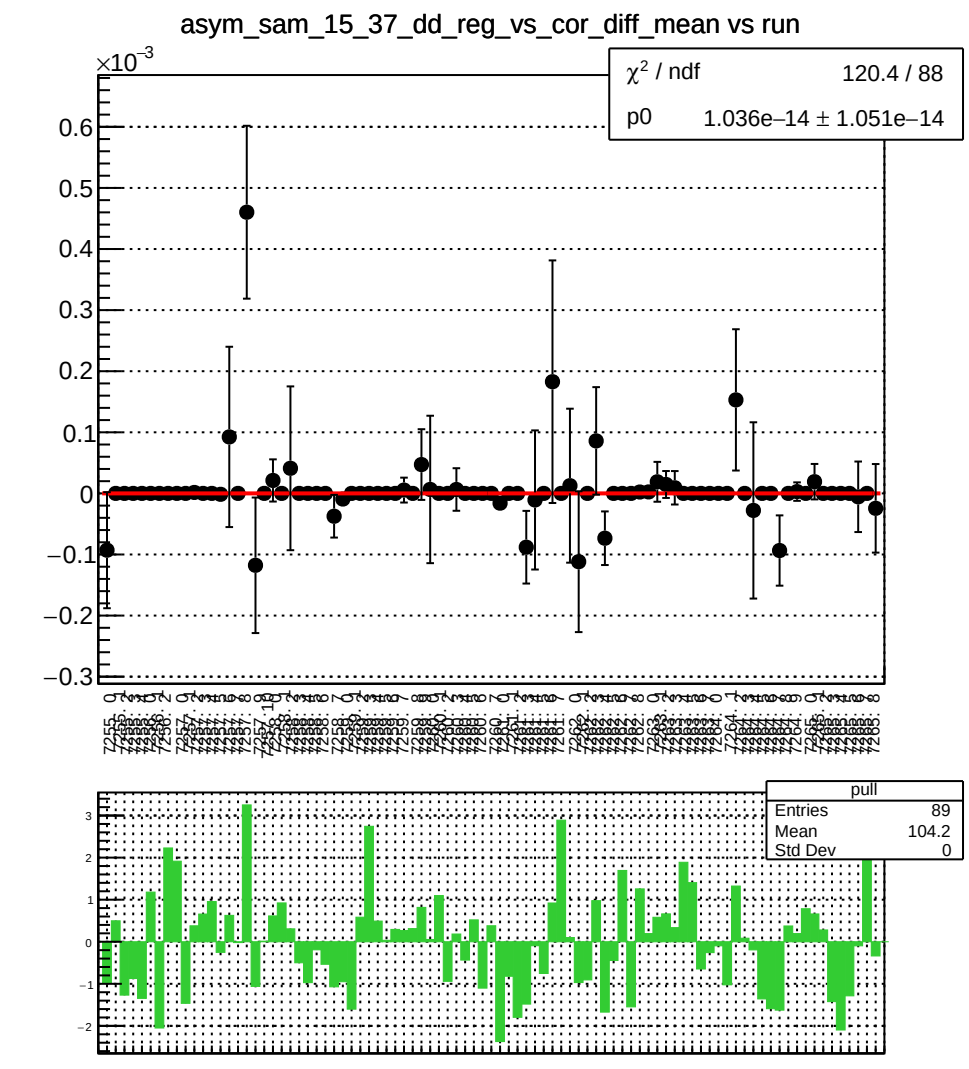

pull1D
Entries 89
Mean −0.004391
Std Dev 1.018
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

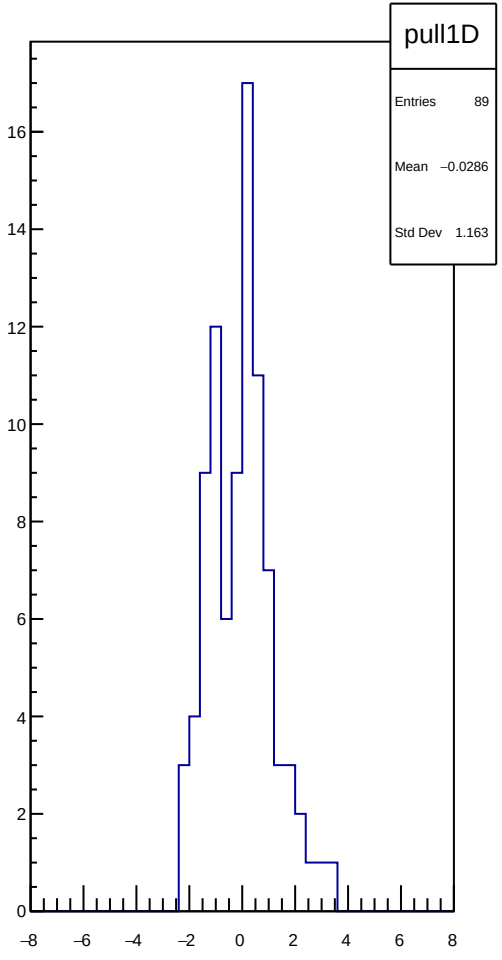

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2699 / 88
p0 248.6 ± 0.1911
280
270
260
250
240
230

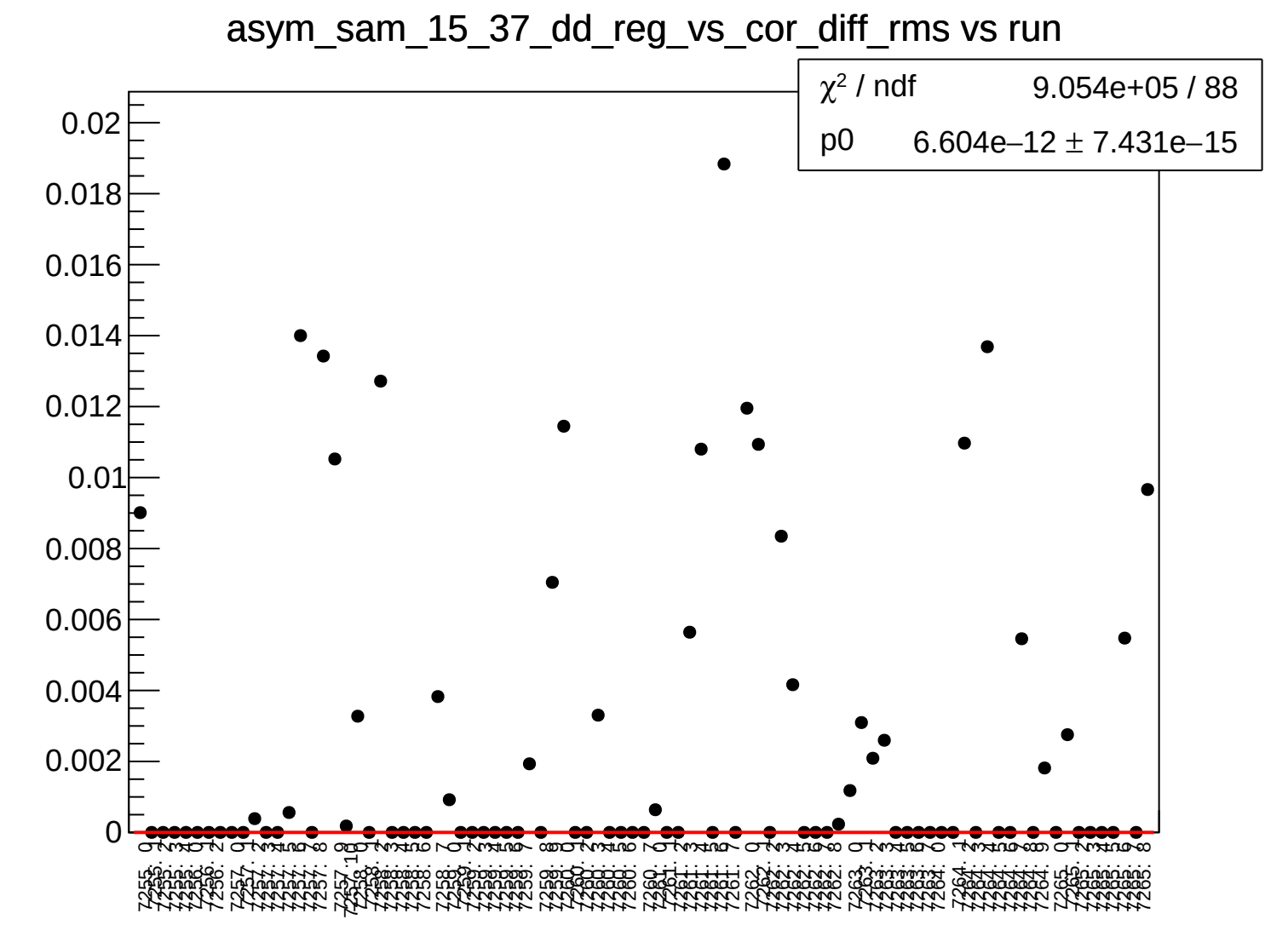

asym_sam_15_37_dd_mean vs run
χ² / ndf 93.11 / 88
p0 −188.7 ± 274.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 846.5
Std Dev 0
3
2
1
0
−1
−2

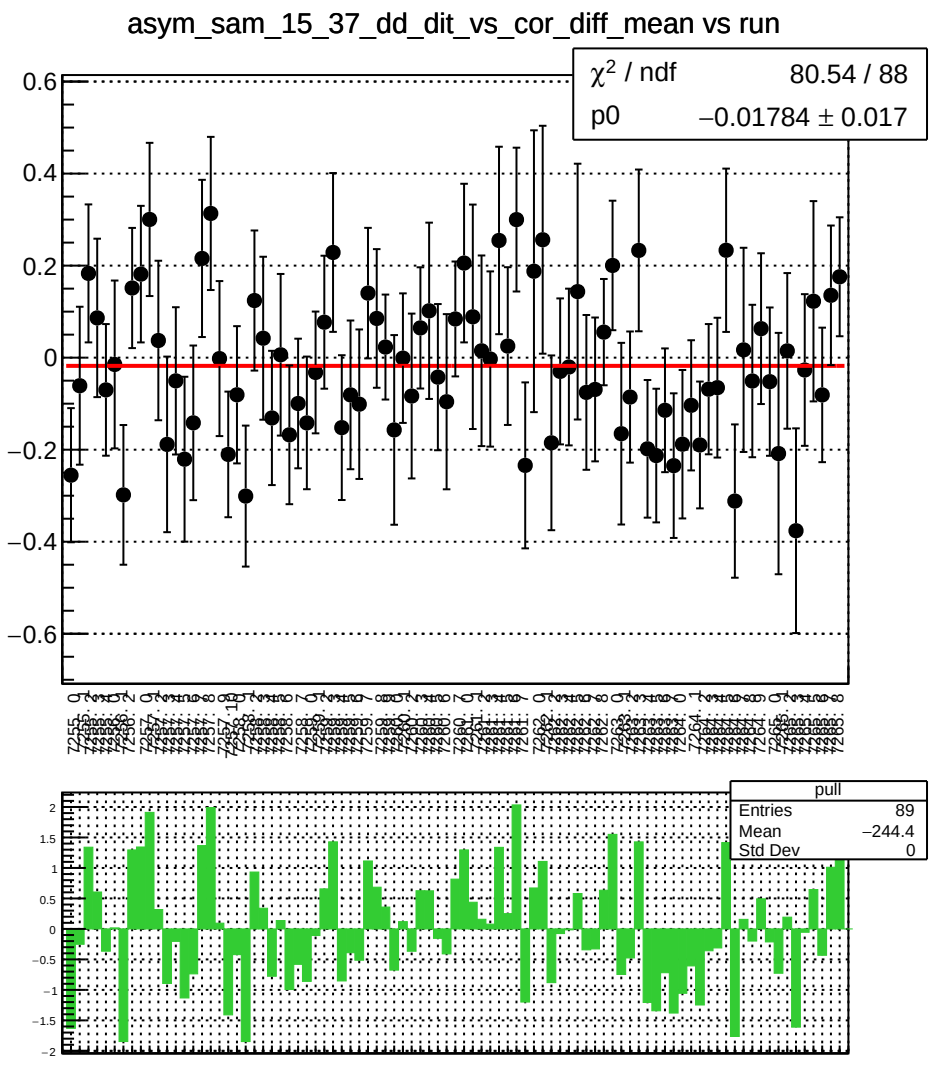

pull1D
Entries 89
Mean 0.004797
Std Dev 1.023
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

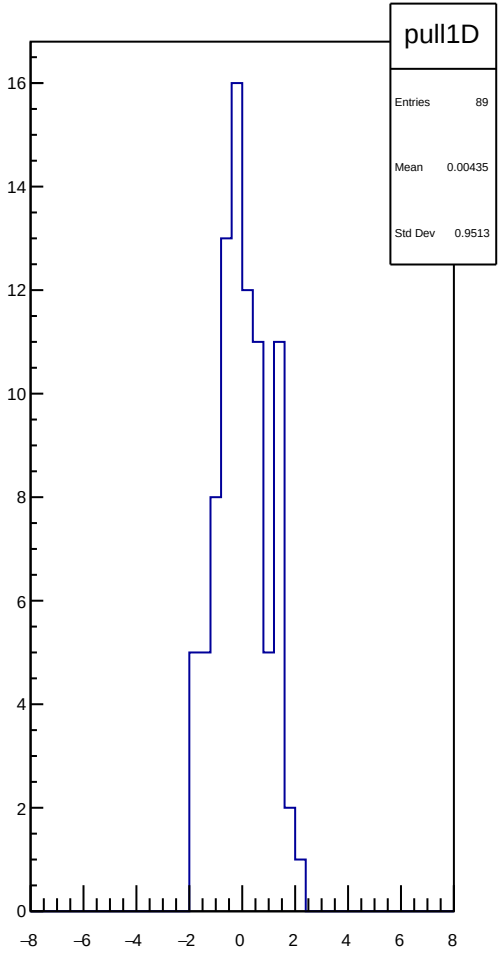

asym_sam_15_37_dd_rms vs run
χ² / ndf 4214 / 88
p0 252.5 ± 0.1942
300
290
280
270
260
250
240
230

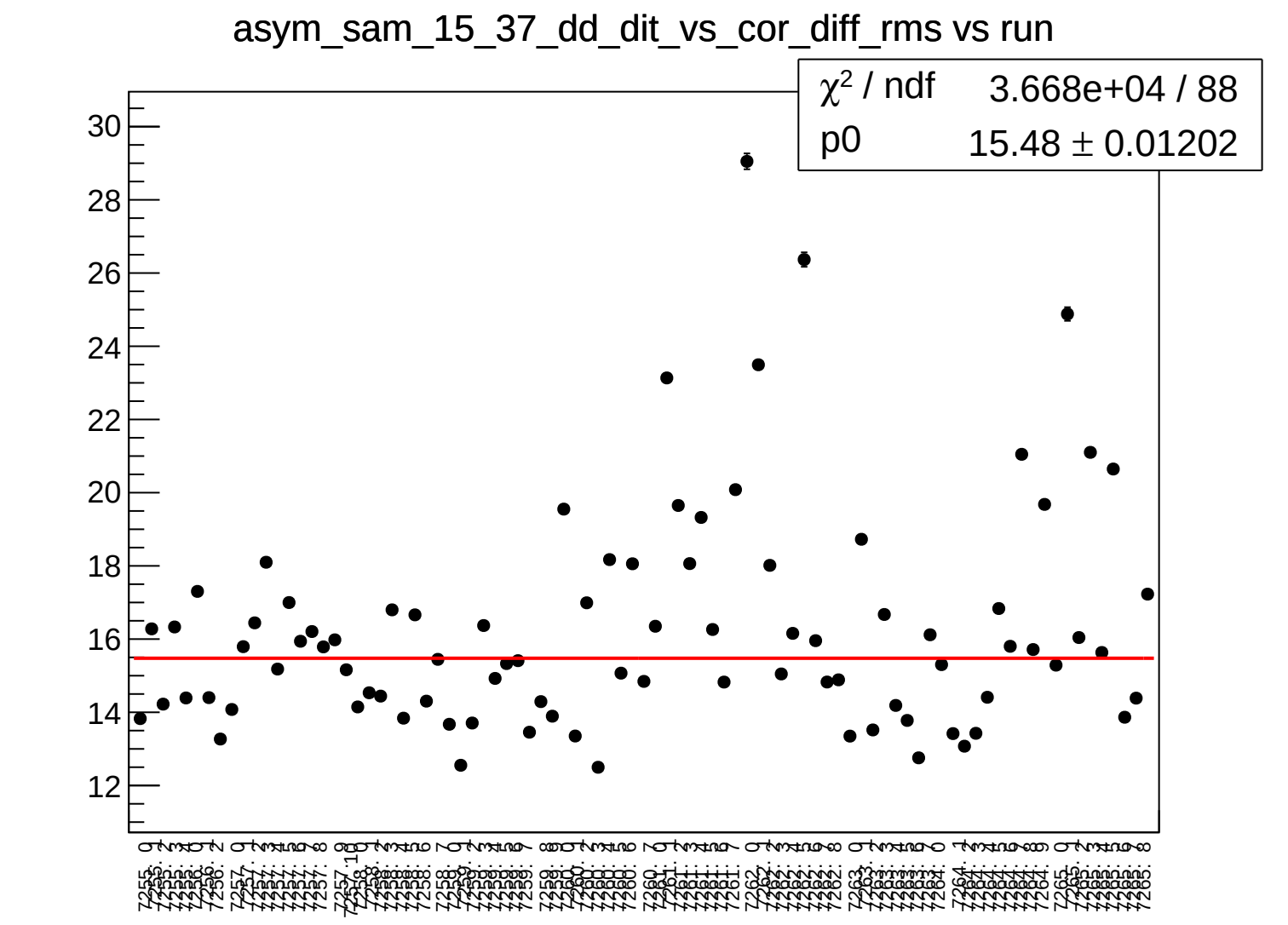

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 120.4 / 88
p0 1.036e−14 ± 1.051e−14
pull
Entries 89
Mean 104.2
Std Dev 0

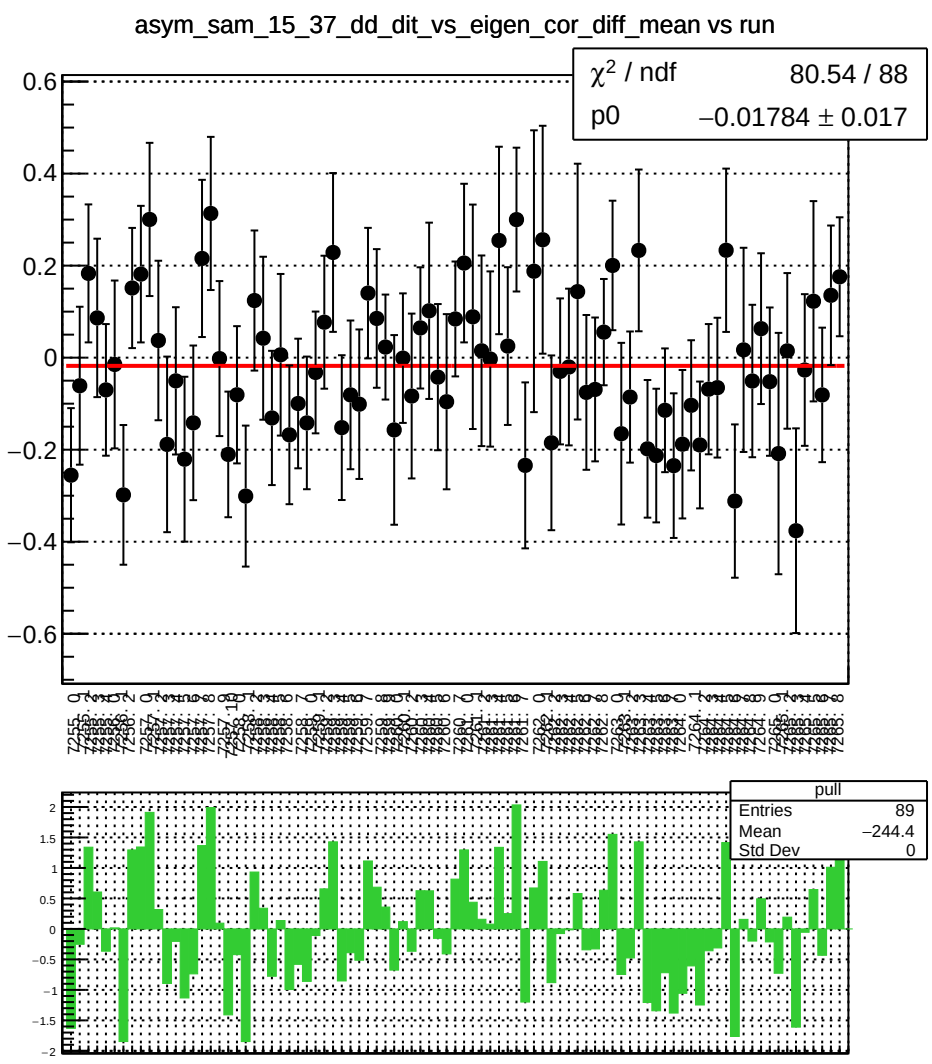

pull1D
Entries 89
Mean −0.0286
Std Dev 1.163

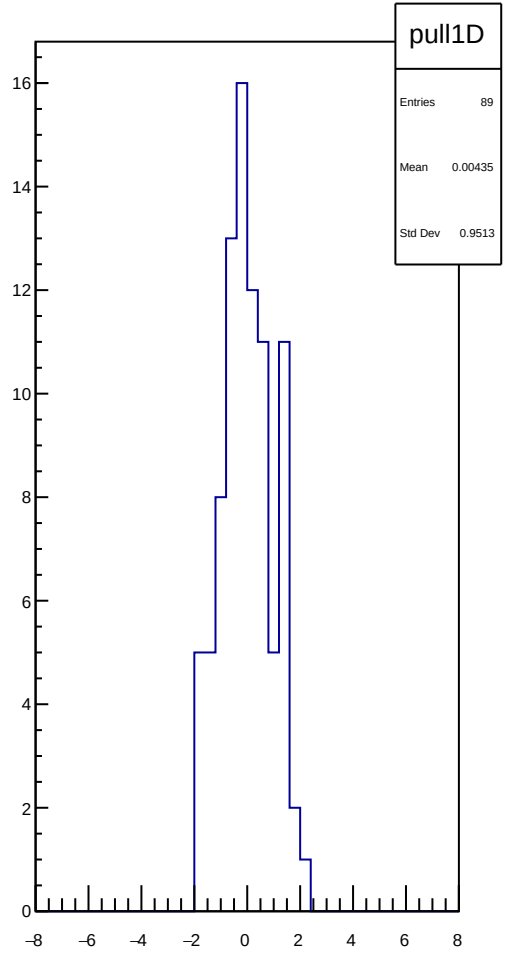

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.054e+05 / 88
p0 6.604e−12 ± 7.431e−15
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

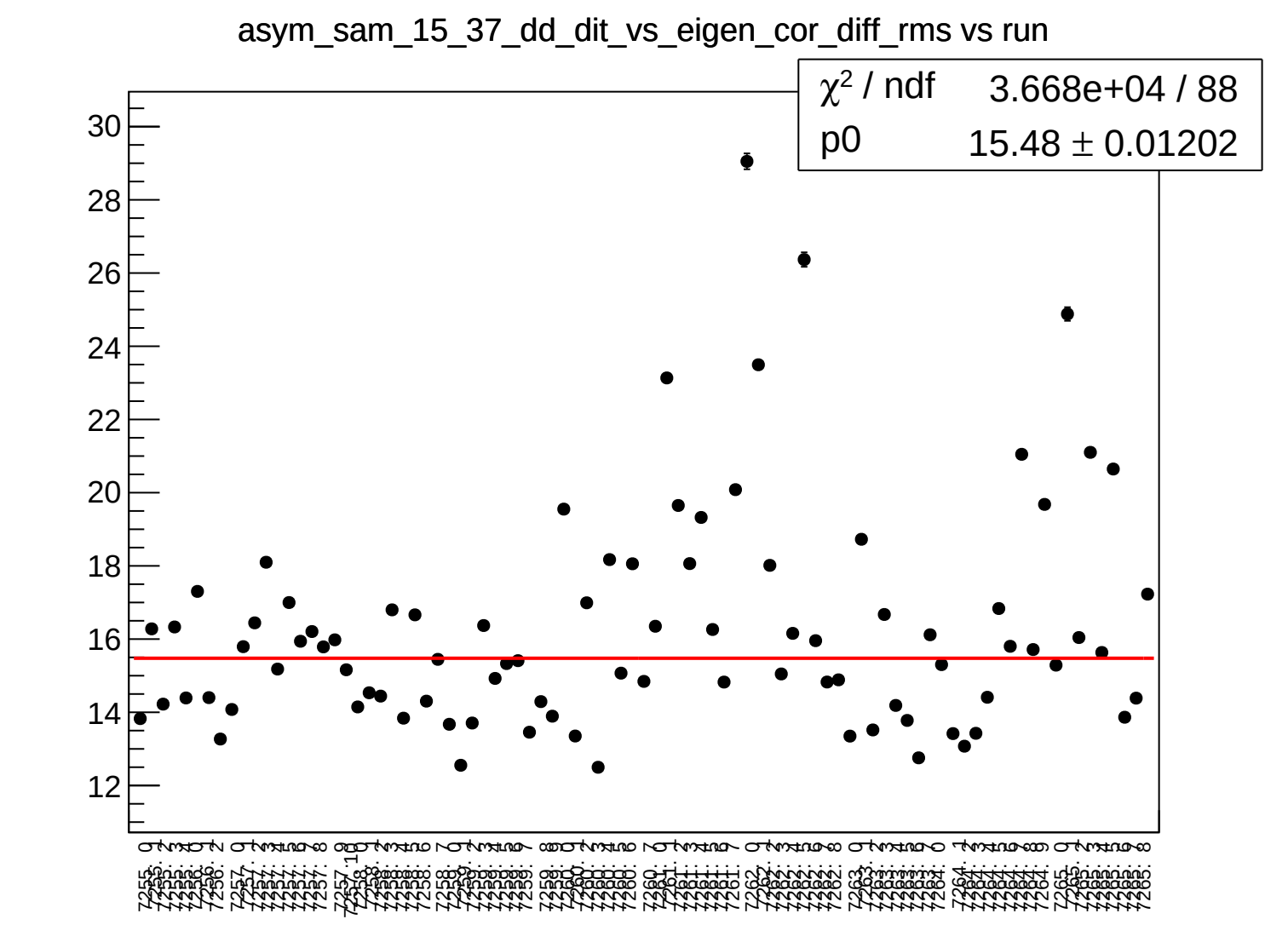

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.54 / 88
p0 −0.01784 ± 0.017
pull
Entries 89
Mean −244.4
Std Dev 0

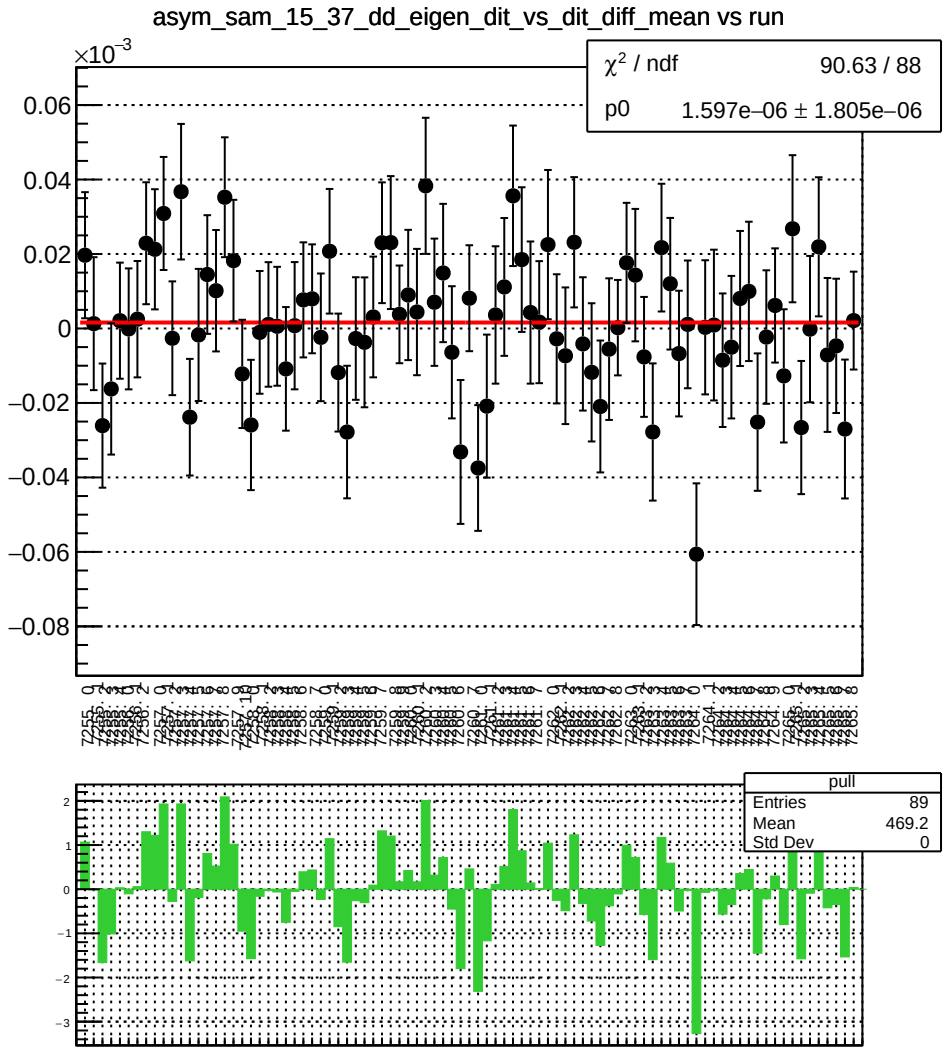

pull1D
Entries 89
Mean 0.00435
Std Dev 0.9513

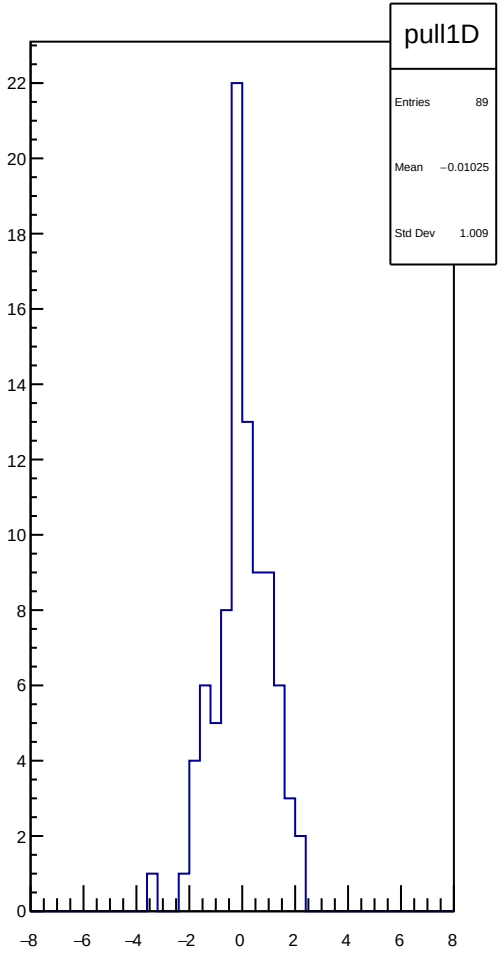

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.668e+04 / 88
p0 15.48 ± 0.01202
30
28
26
24
22
20
18
16
14
12

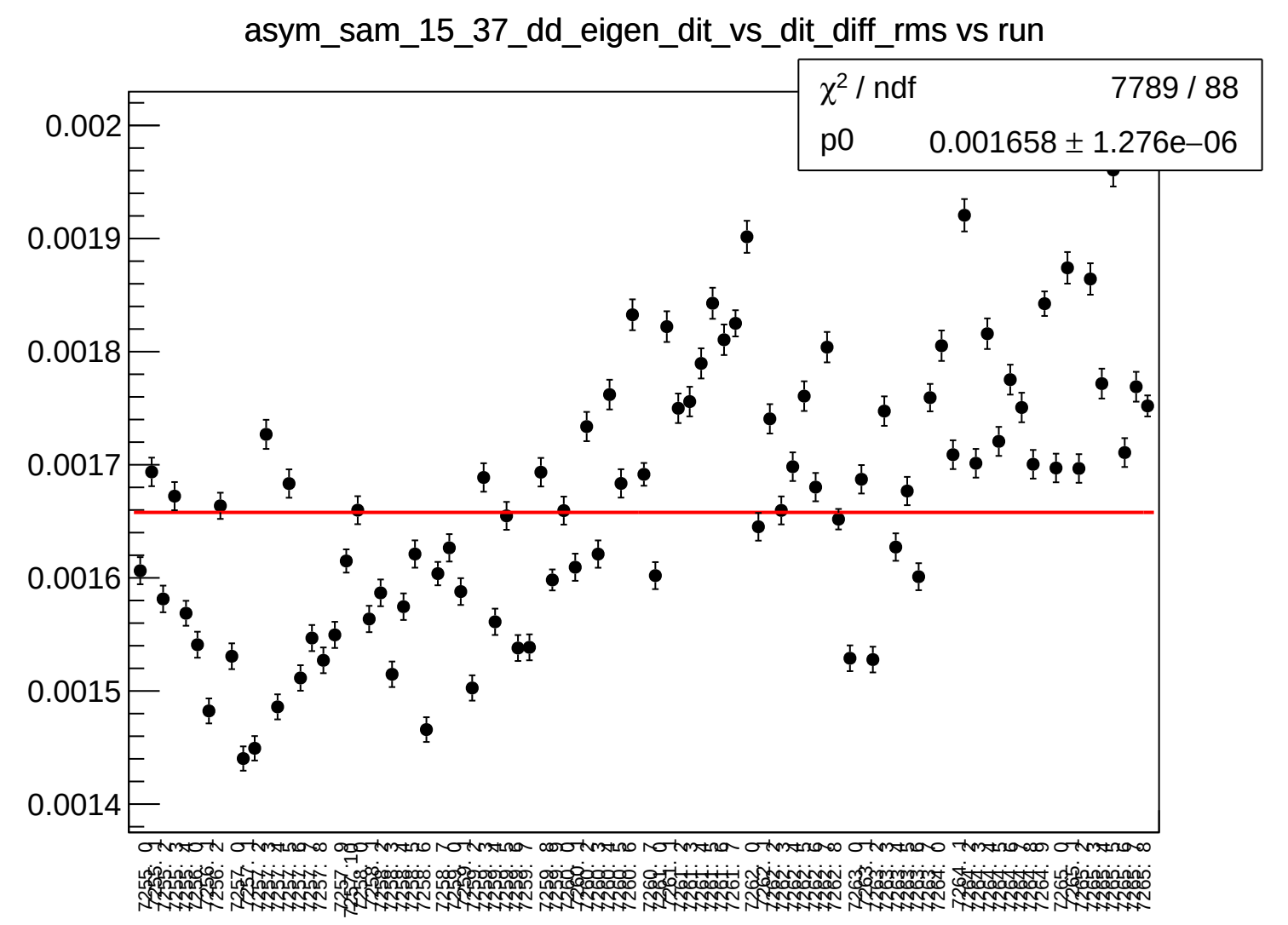

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.54 / 88
p0 −0.01784 ± 0.017
pull
Entries 89
Mean −244.4
Std Dev 0

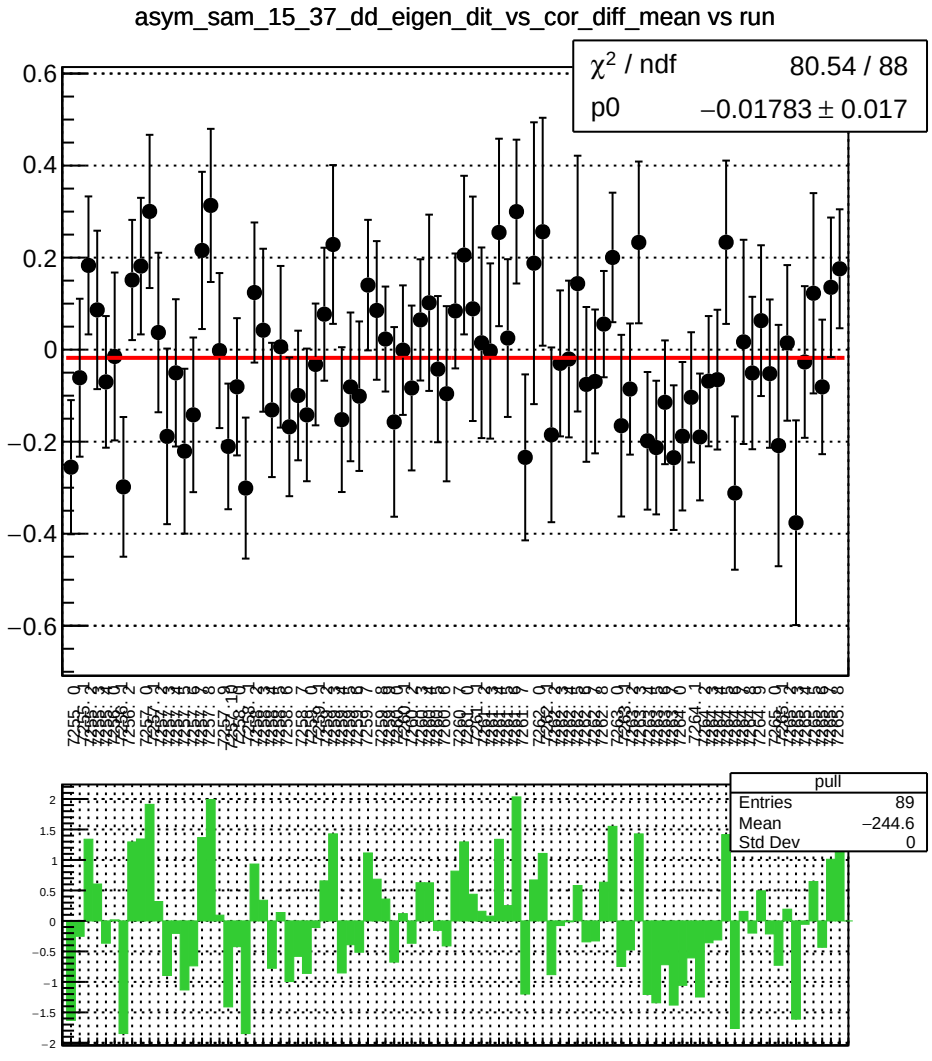

pull1D
Entries 89
Mean 0.00435
Std Dev 0.9513

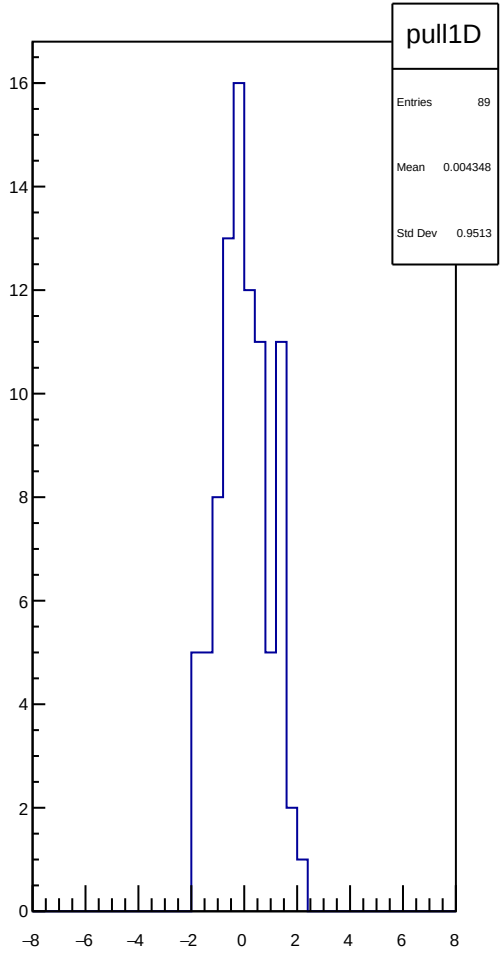

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.668e+04 / 88
p0 15.48 ± 0.01202
30
28
26
24
22
20
18
16
14
12

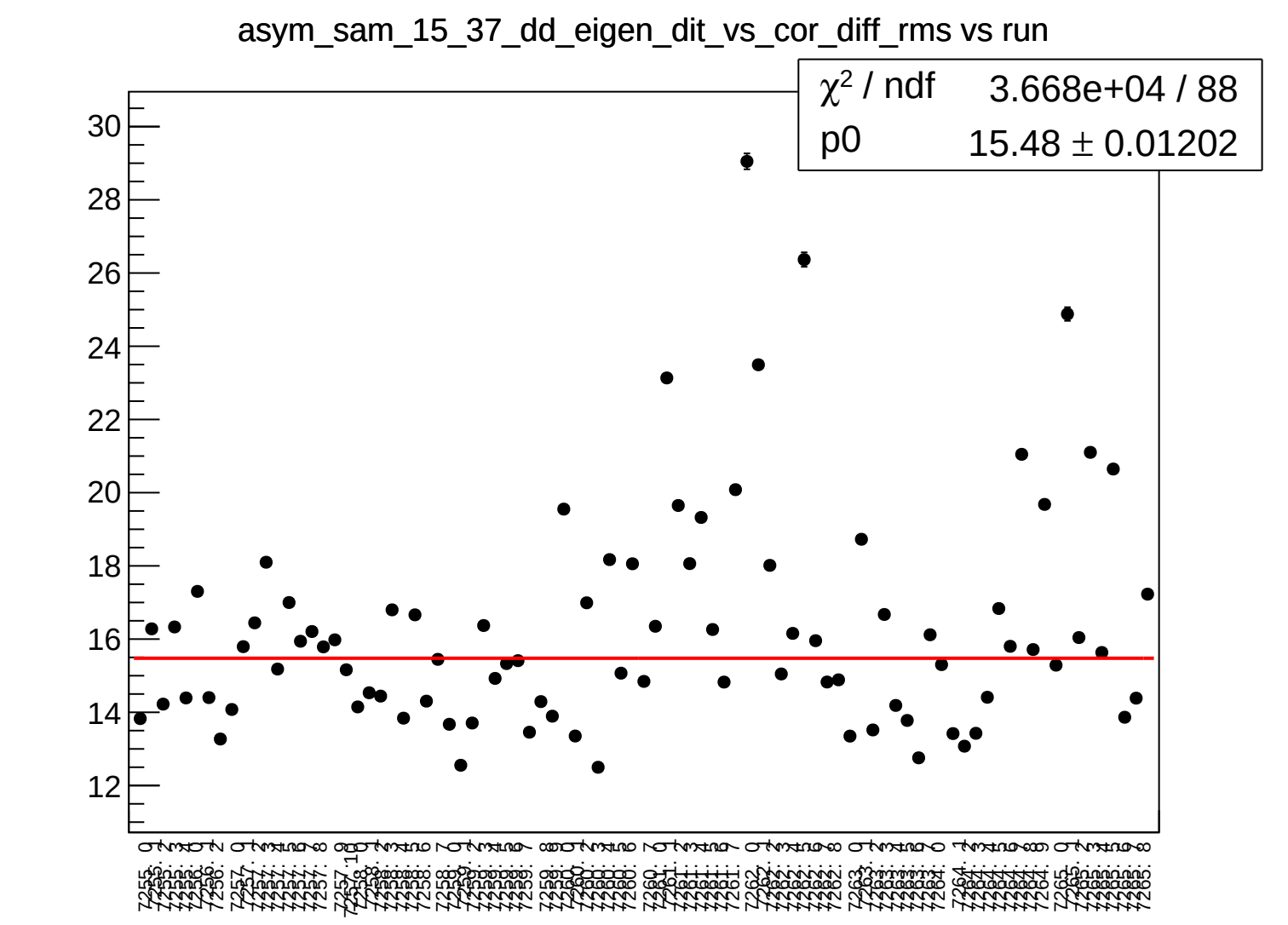

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.63 / 88
p0 1.597e−06 ± 1.805e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean 469.2
Std Dev 0
2
1
0
−1
−2
−3

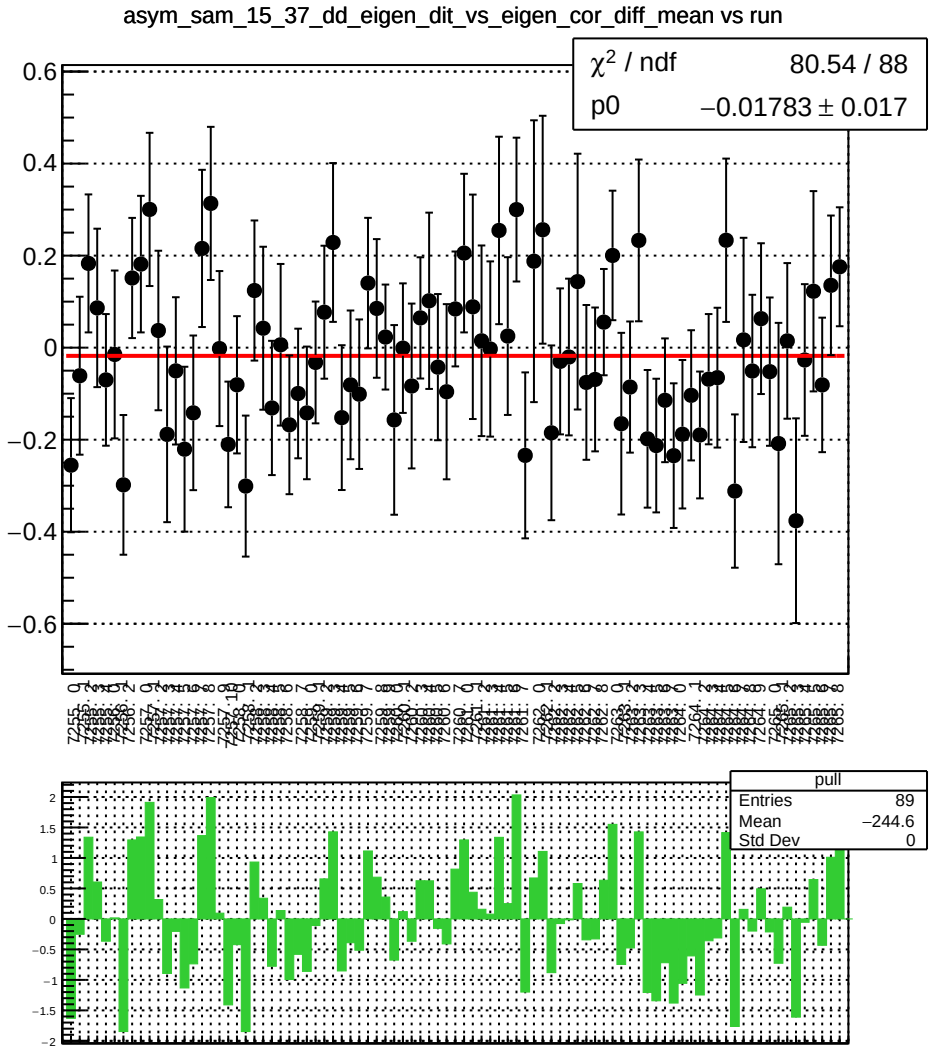

pull1D
Entries 89
Mean −0.01025
Std Dev 1.009
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

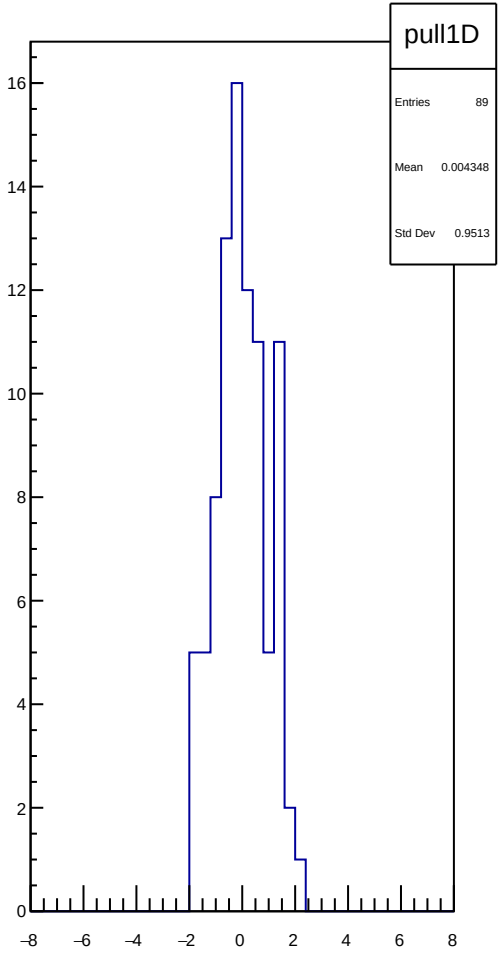

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7789 / 88
p0 0.001658 ± 1.276e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

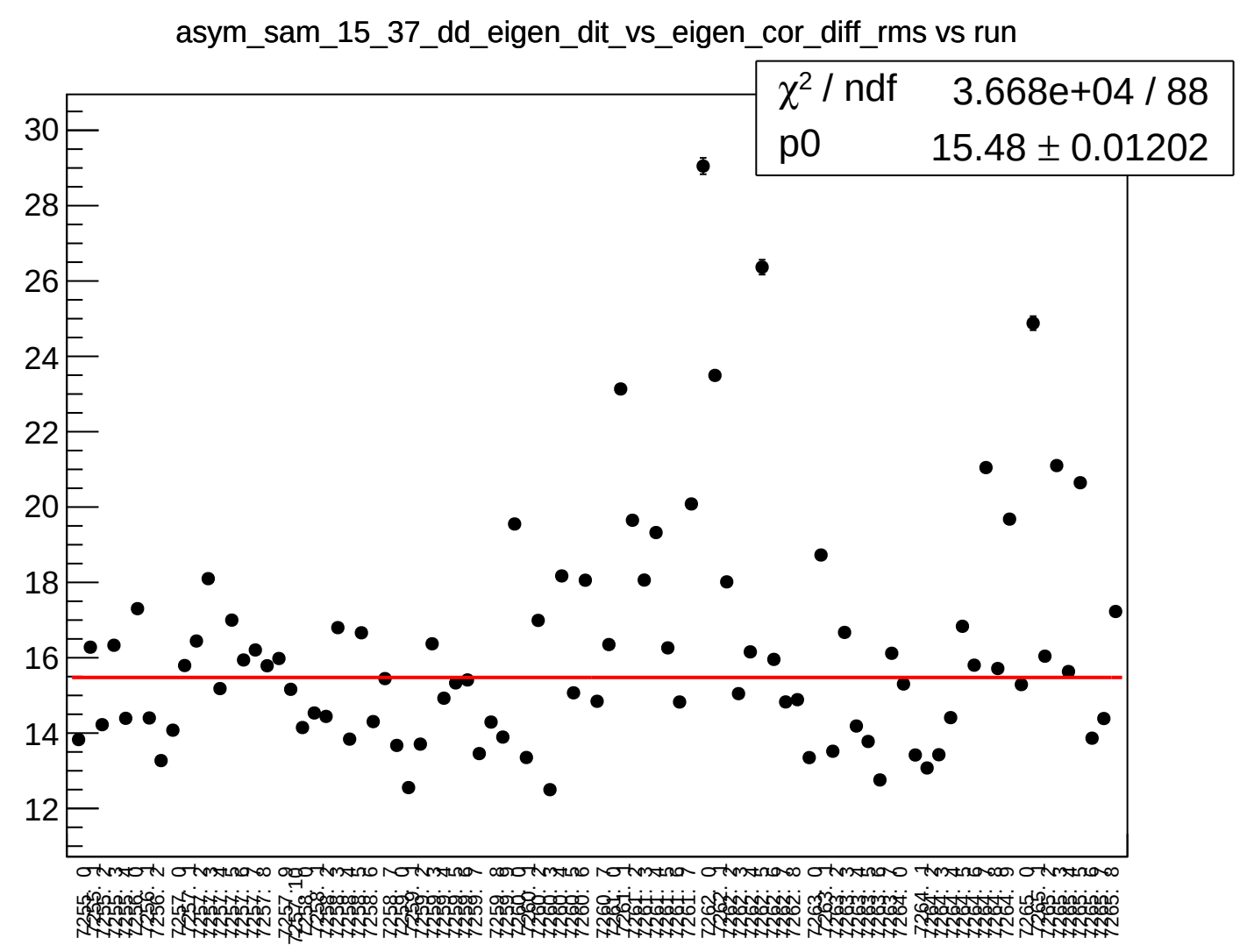

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.54 / 88
p0 −0.01783 ± 0.017
pull
Entries 89
Mean −244.6
Std Dev 0

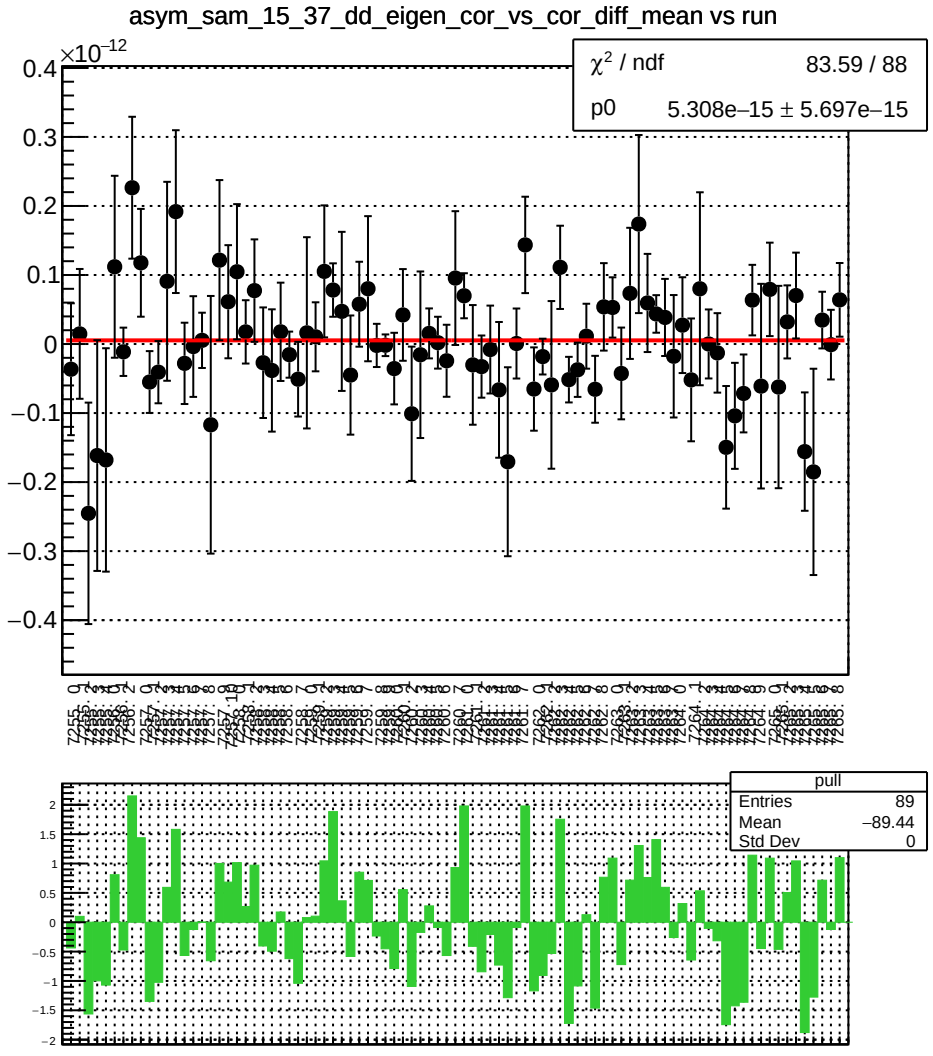

pull1D
Entries 89
Mean 0.004348
Std Dev 0.9513

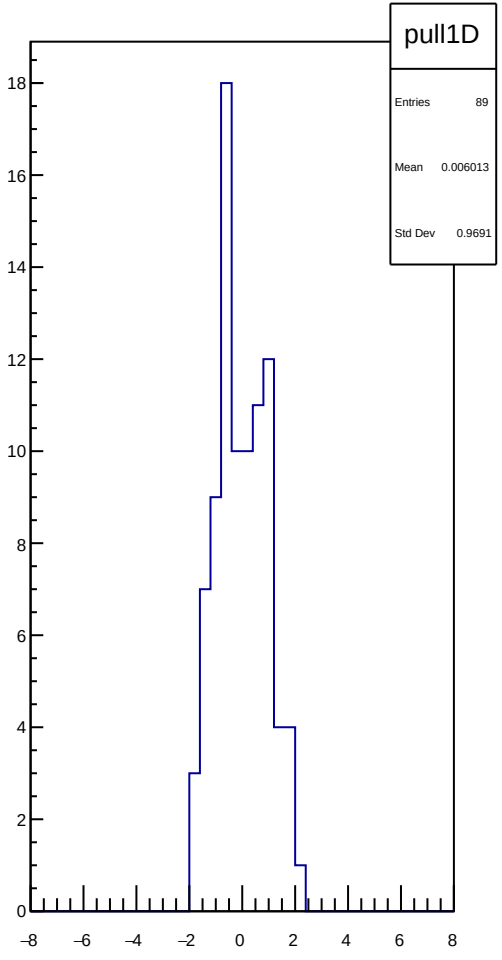

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.668e+04 / 88
p0 15.48 ± 0.01202
30
28
26
24
22
20
18
16
14
12

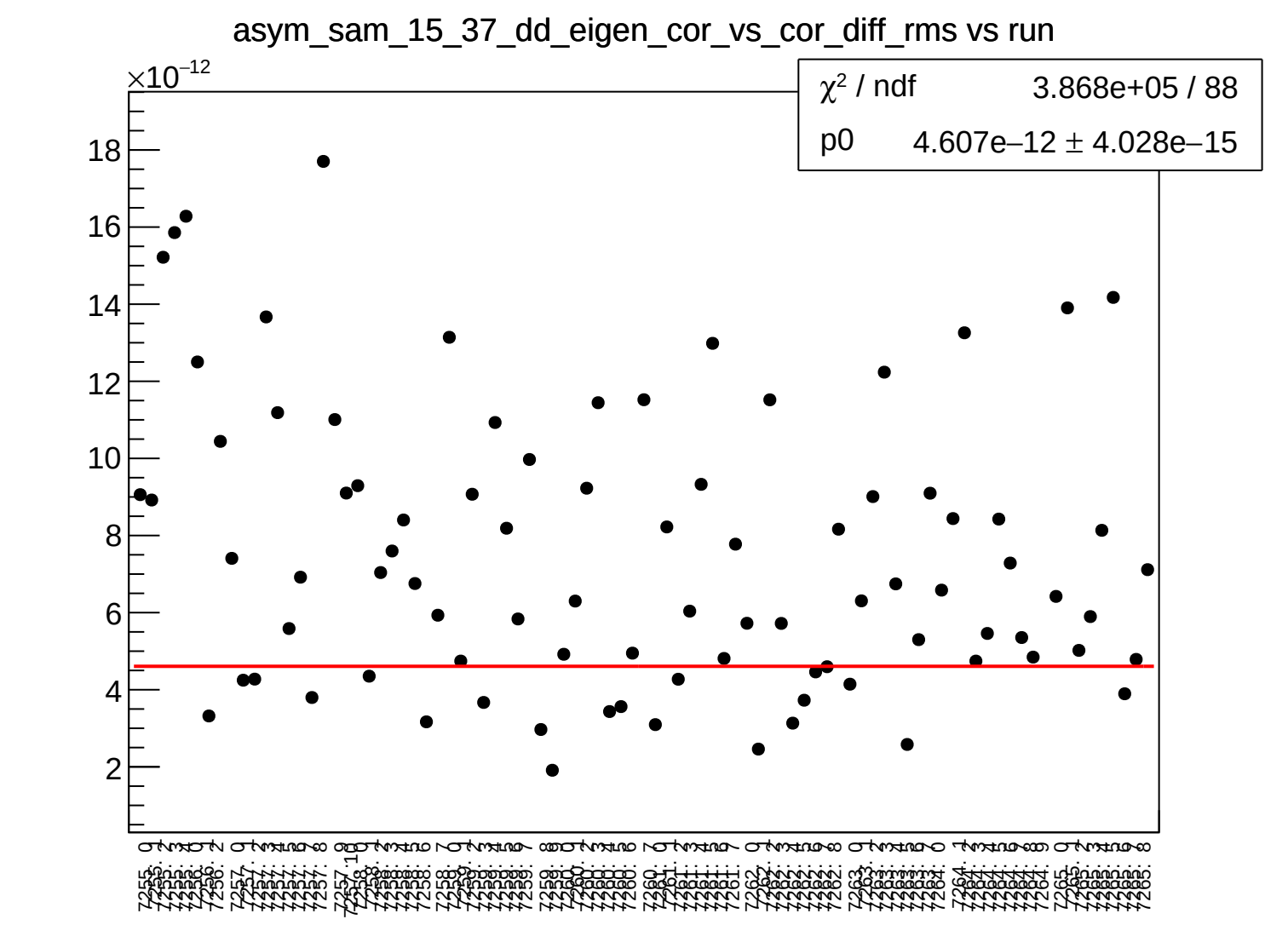

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.54 / 88
p0 −0.01783 ± 0.017
pull
Entries 89
Mean −244.6
Std Dev 0

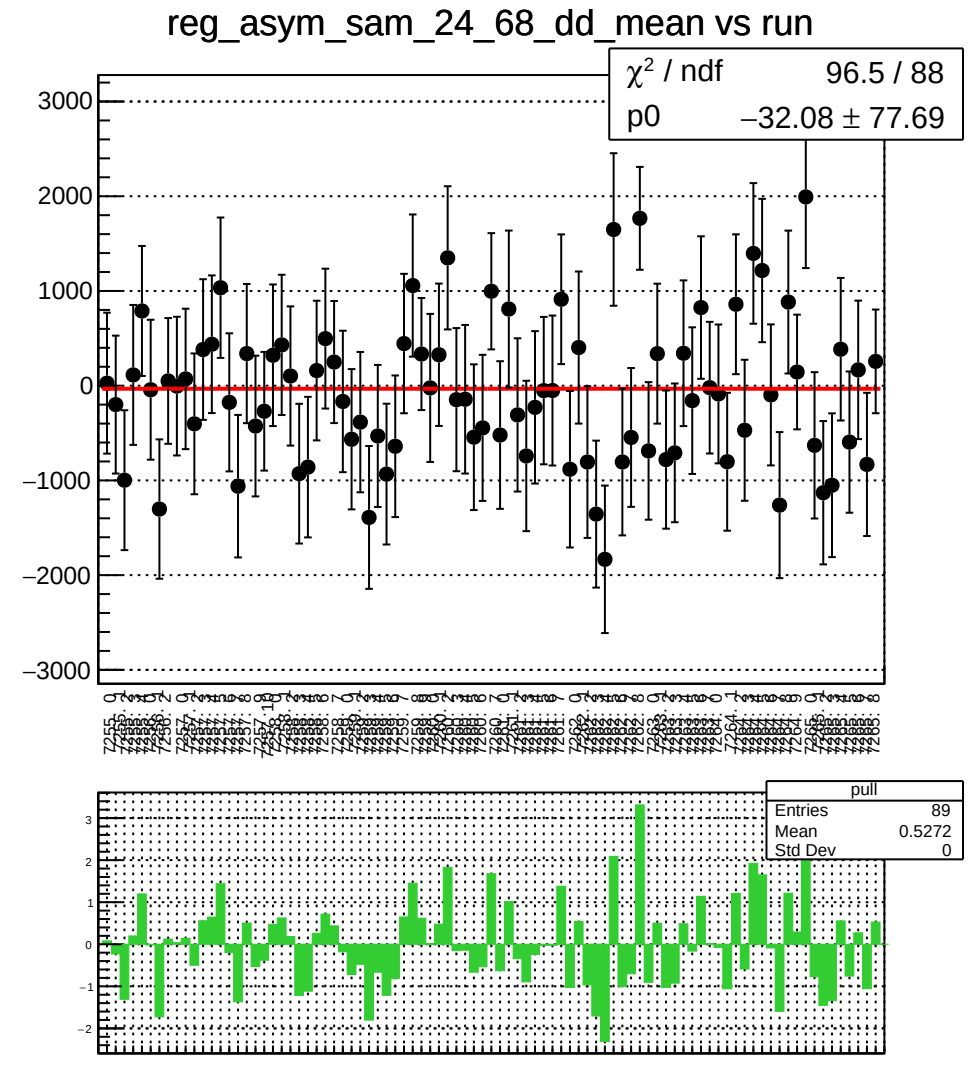

pull1D
Entries 89
Mean 0.004348
Std Dev 0.9513

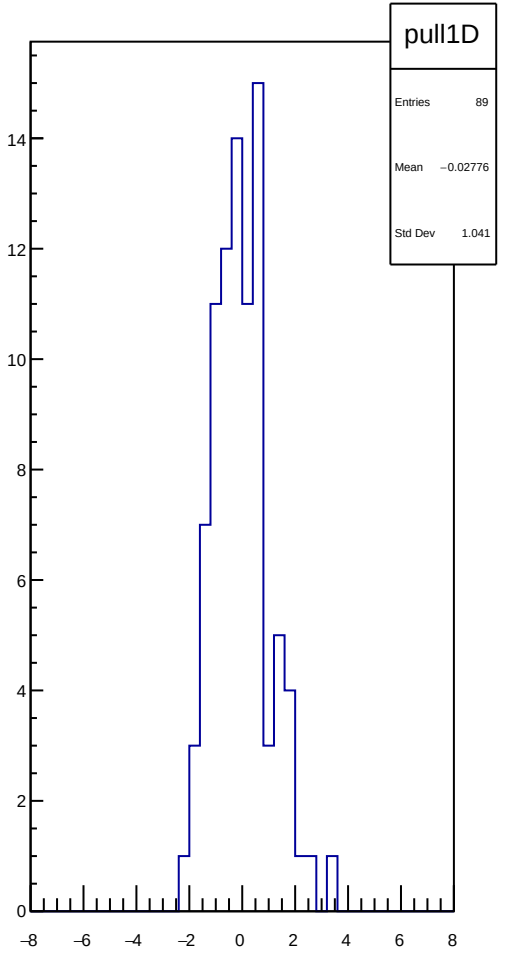

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.668e+04 / 88
p0 15.48 ± 0.01202
30
28
26
24
22
20
18
16
14
12

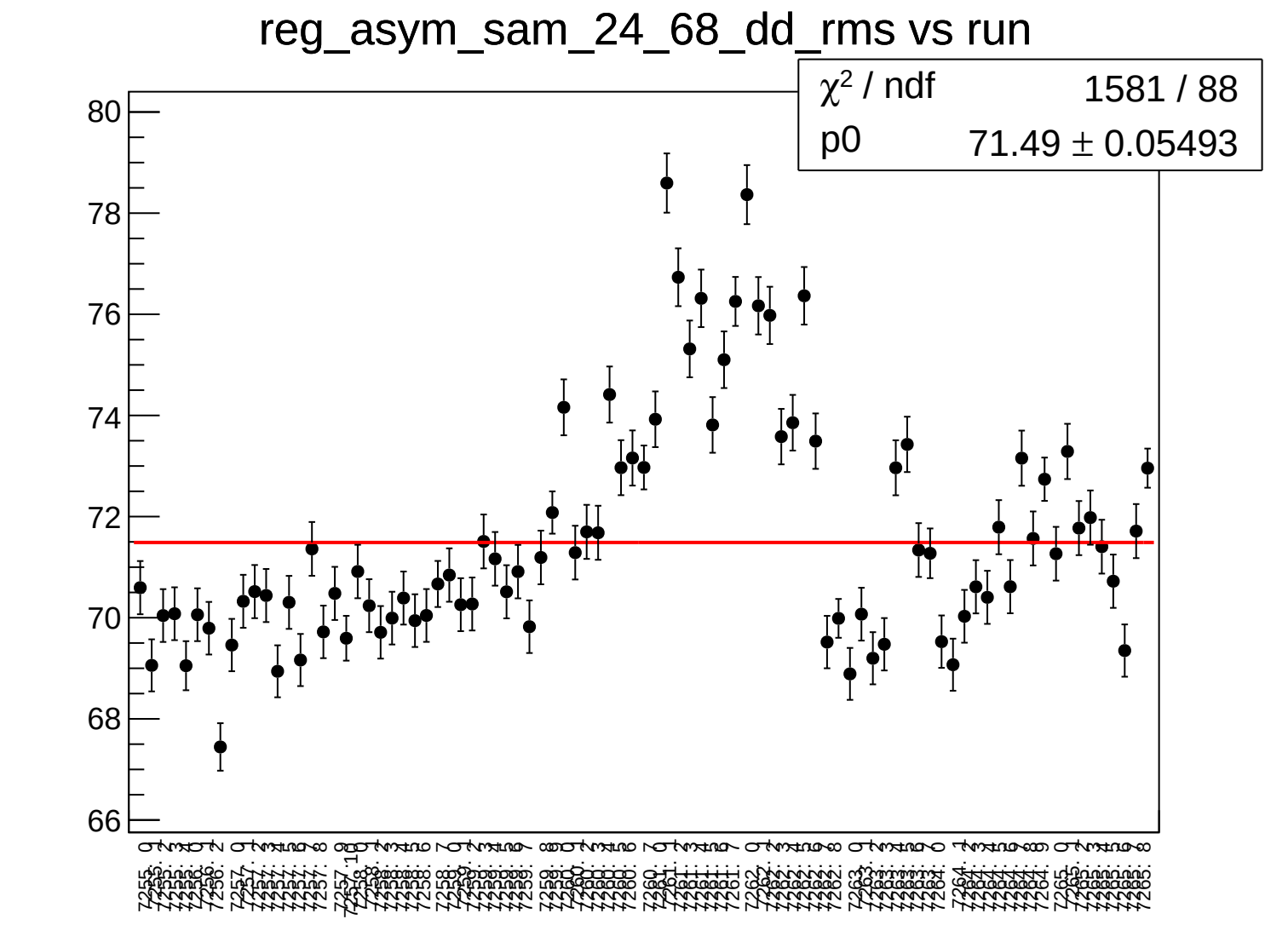

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.59 / 88
p0 5.308e−15 ± 5.697e−15
pull
Entries 89
Mean −89.44
Std Dev 0

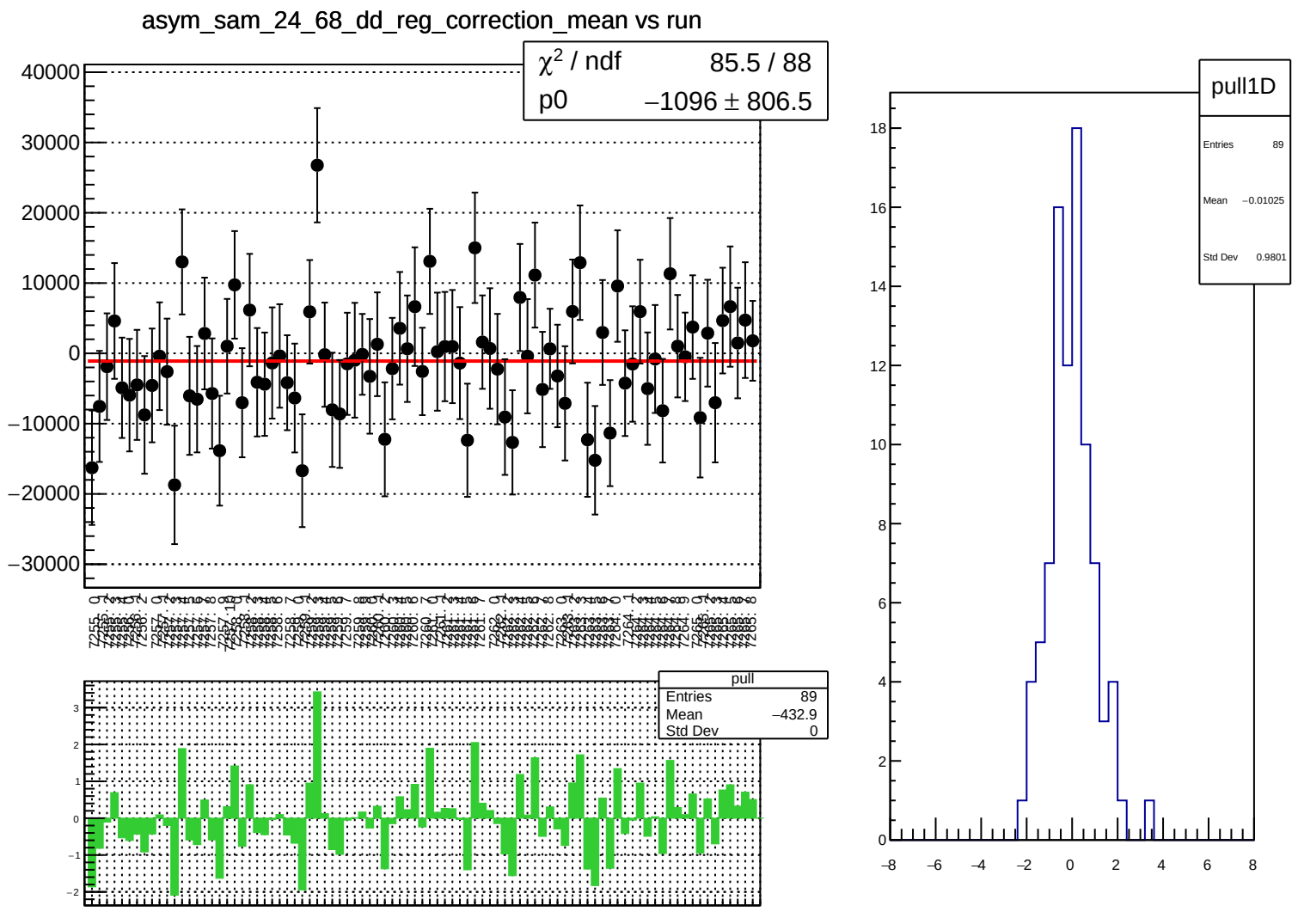

pull1D
Entries 89
Mean 0.006013
Std Dev 0.9691

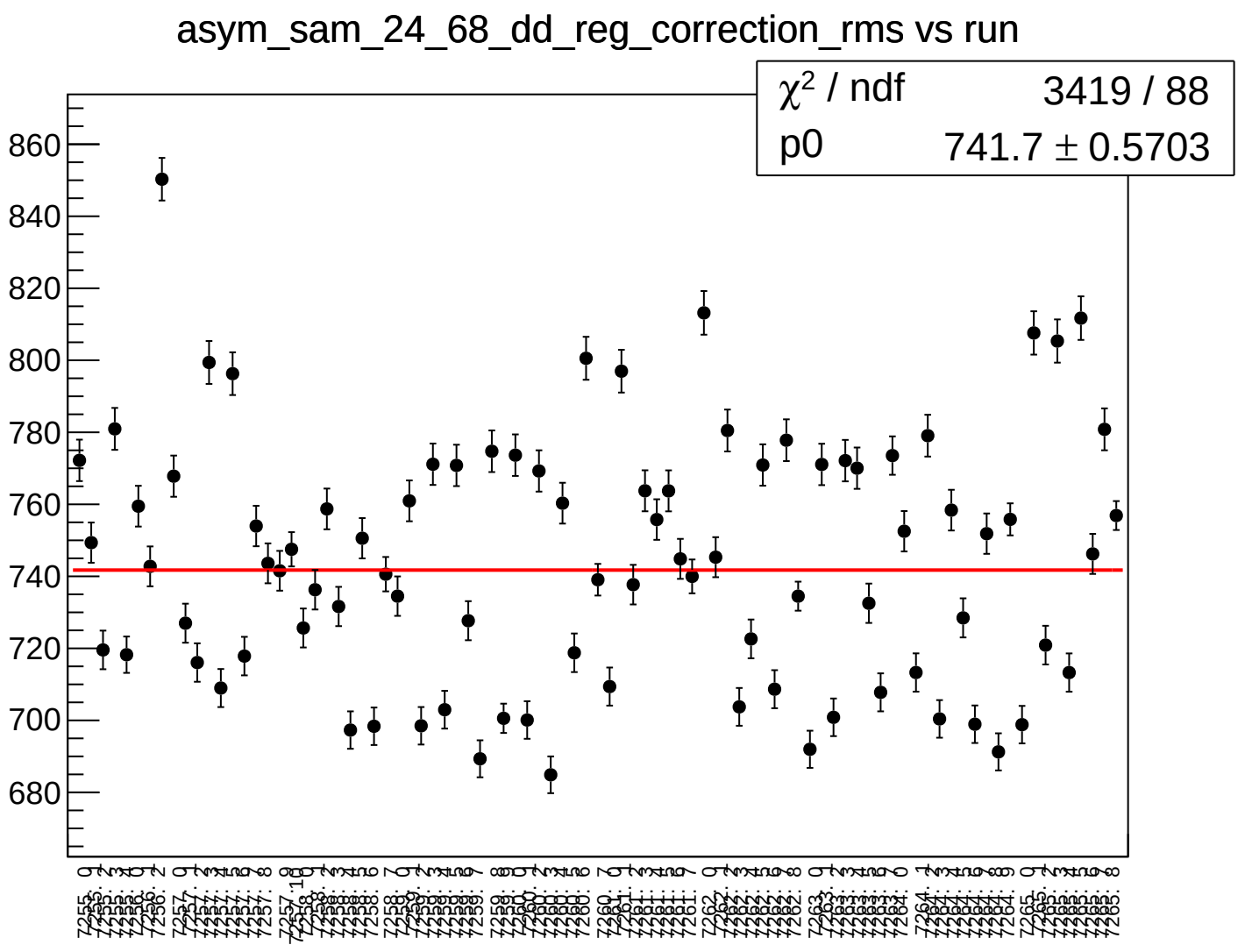

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.868e+05 / 88
p0 4.607e−12 ± 4.028e−15
18
16
14
12
10
8
6
4
2

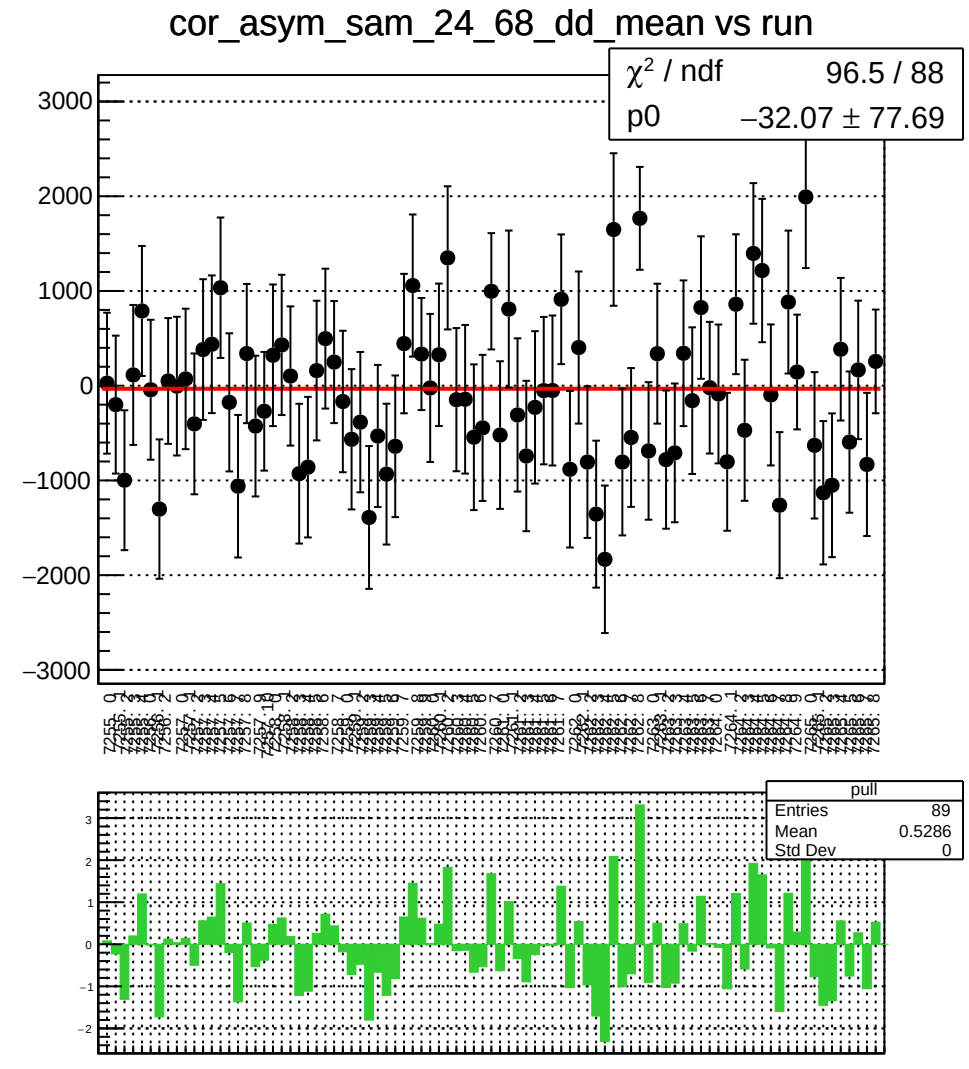

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 96.5 / 88
p0 −32.08 ± 77.69
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 0.5272
Std Dev 0
3
2
1
0
−1
−2

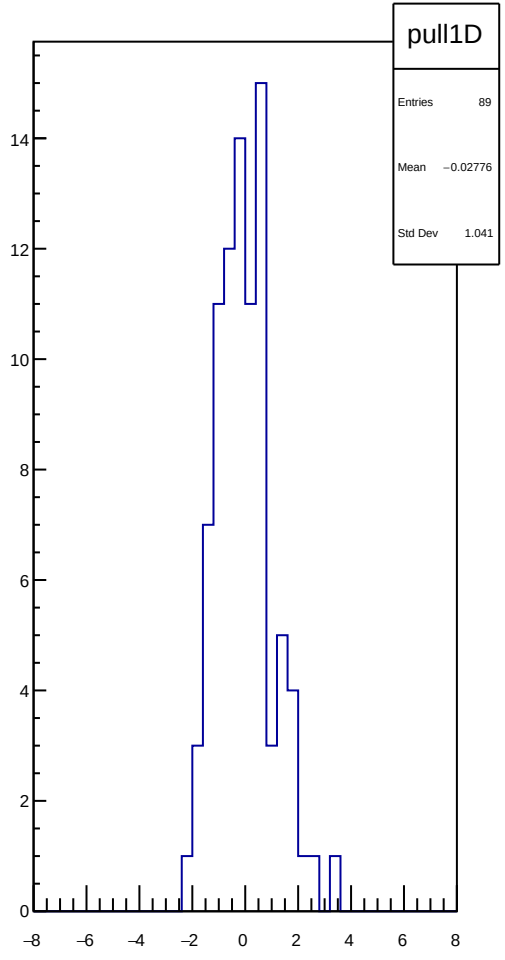

pull1D
Entries 89
Mean −0.02776
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

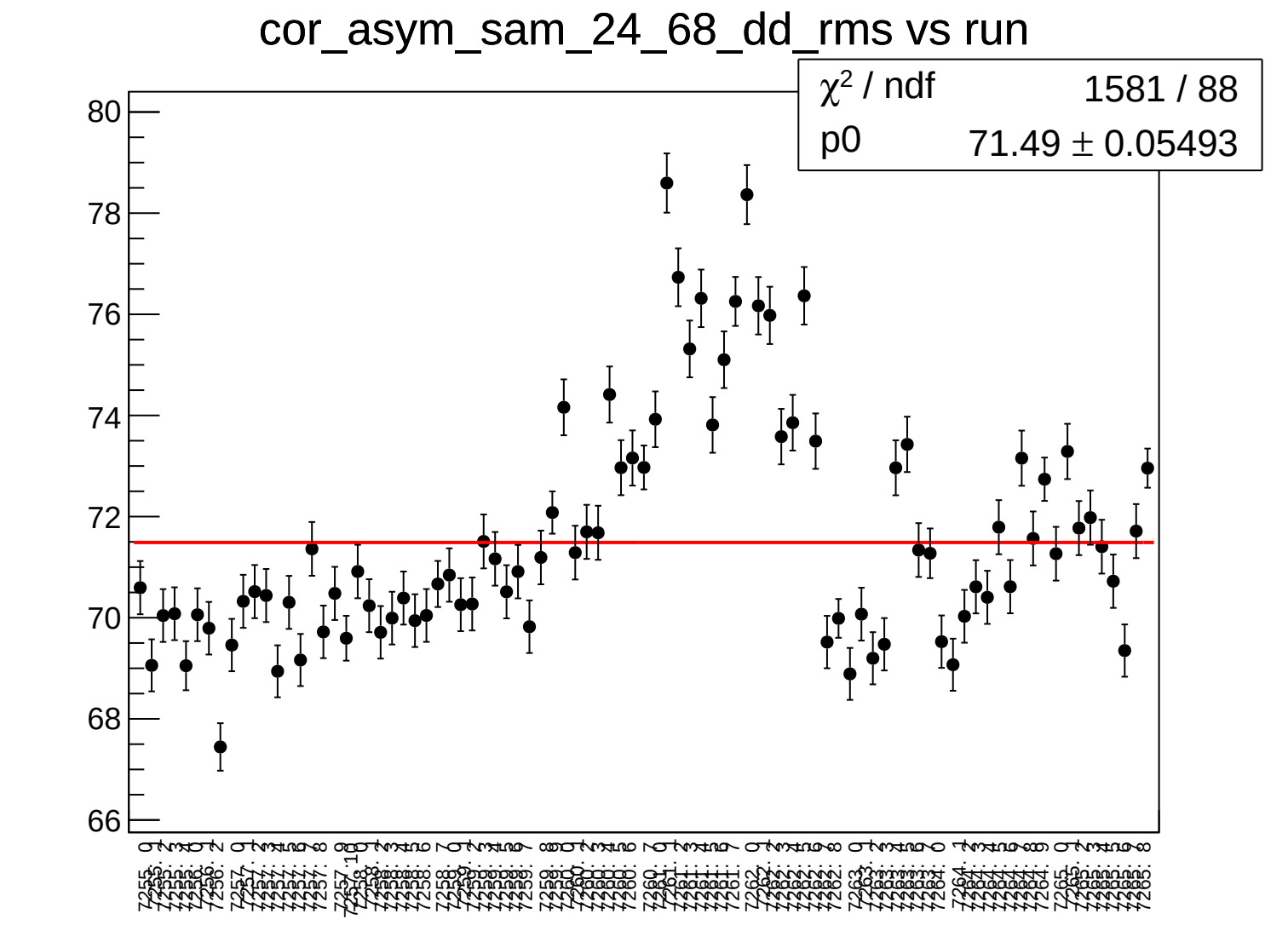

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1581 / 88
p0 71.49 ± 0.05493
80
78
76
74
72
70
68
66

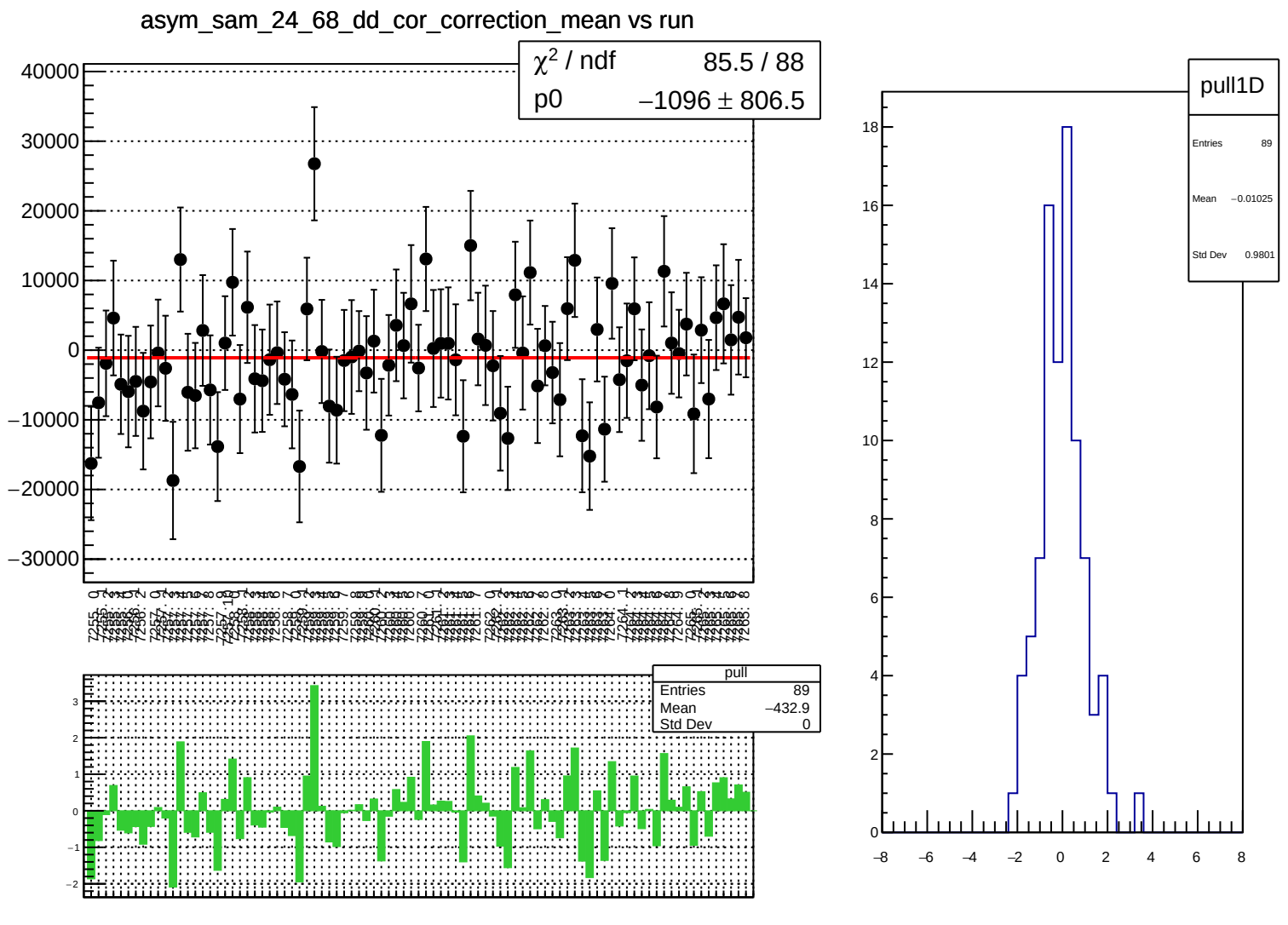

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 85.5 / 88
p0 −1096 ± 806.5
pull
Entries 89
Mean −432.9
Std Dev 0
pull1D
Entries 89
Mean −0.01025
Std Dev 0.9801

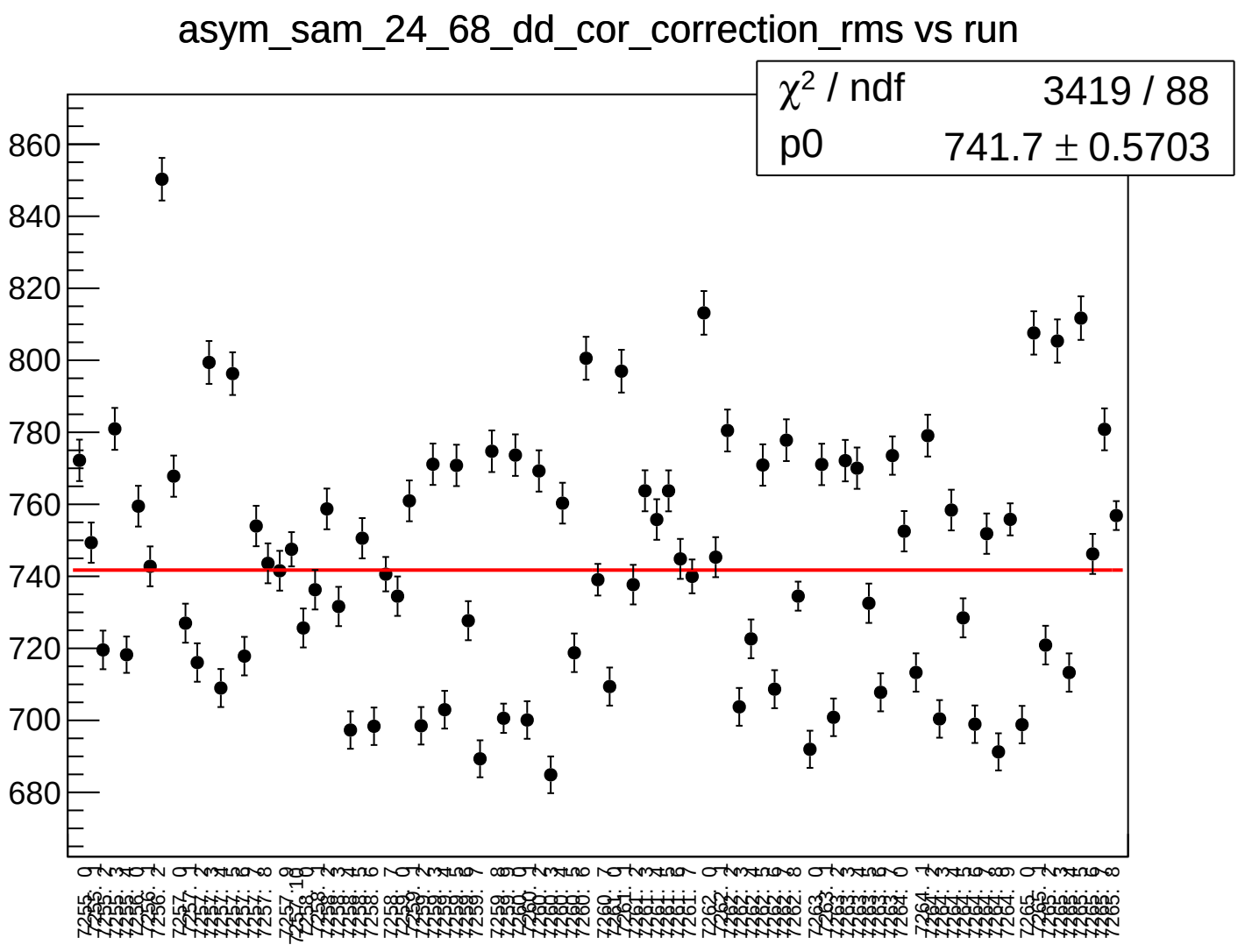

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 3419 / 88
p0 741.7 ± 0.5703
860
840
820
800
780
760
740
720
700
680

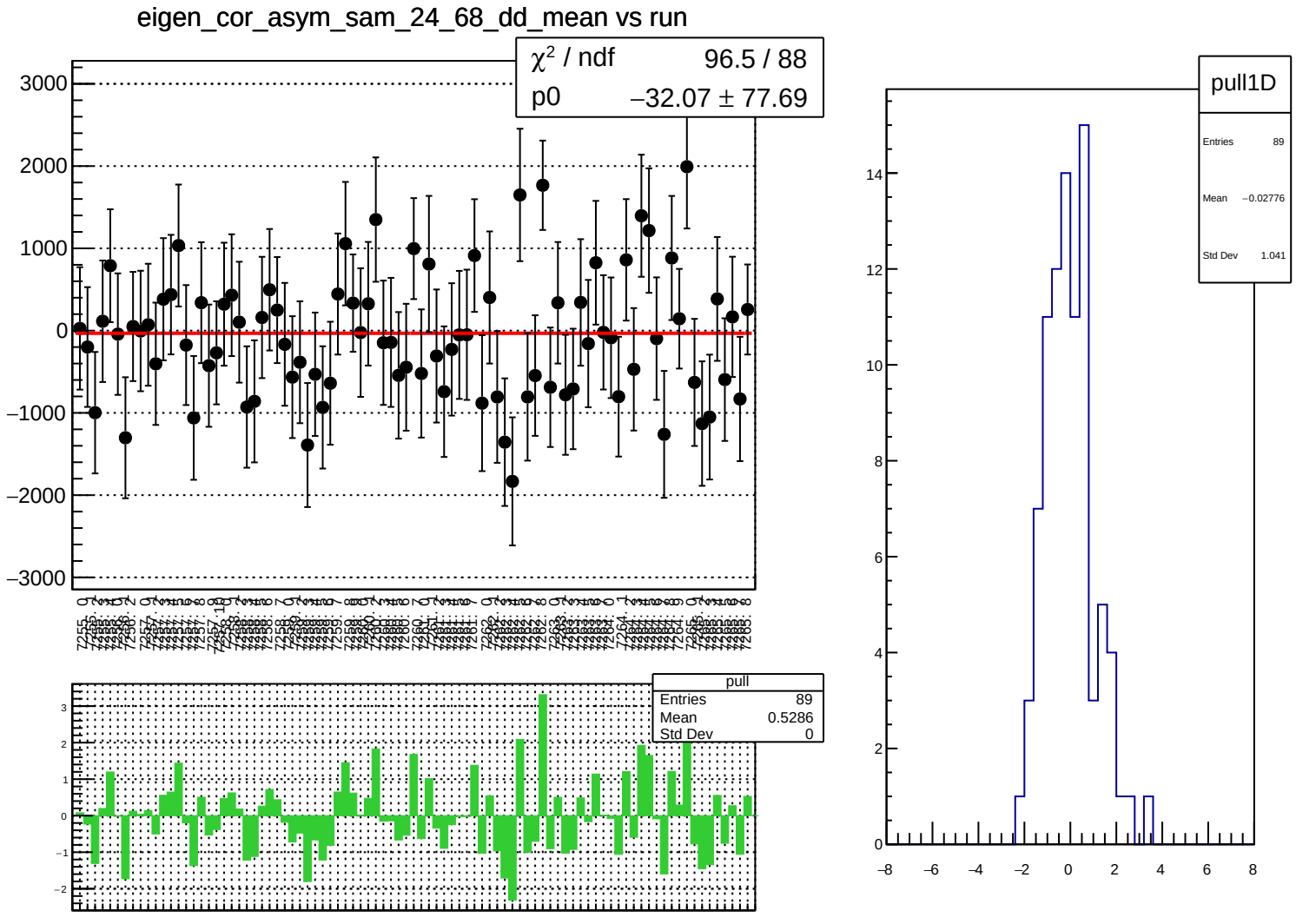

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 96.5 / 88
p0 −32.07 ± 77.69
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 0.5286
Std Dev 0
3
2
1
0
−1
−2

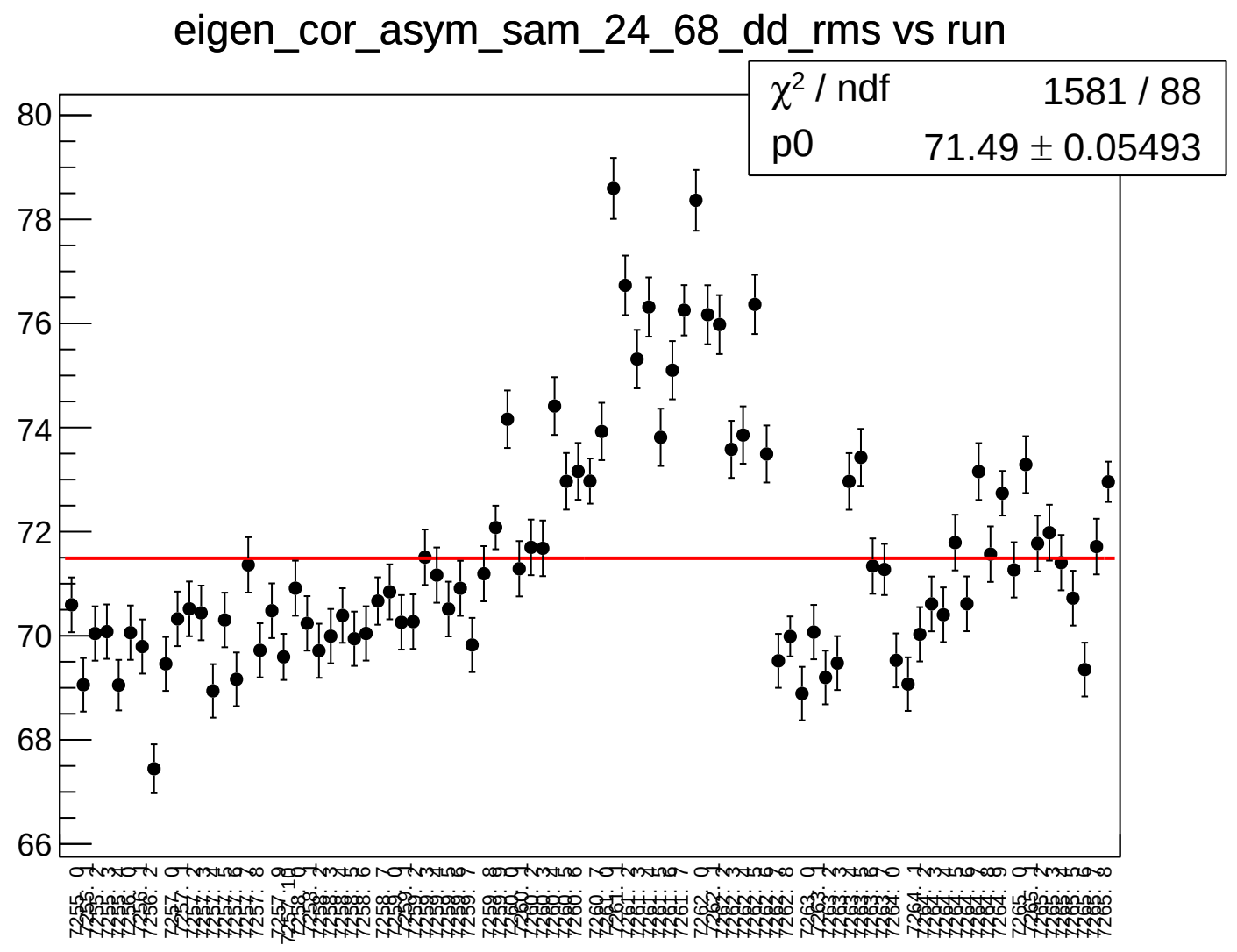

pull1D
Entries 89
Mean −0.02776
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

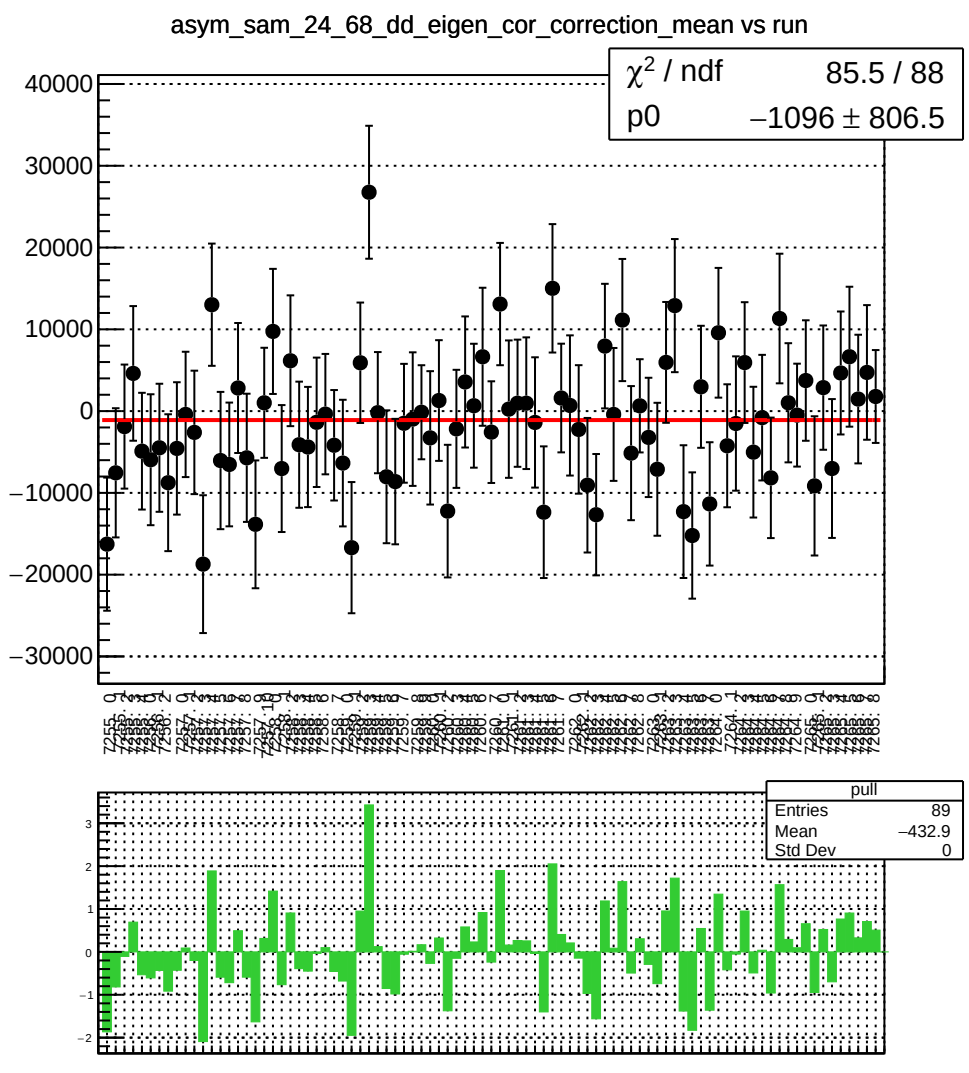

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1581 / 88
p0 71.49 ± 0.05493
80
78
76
74
72
70
68
66

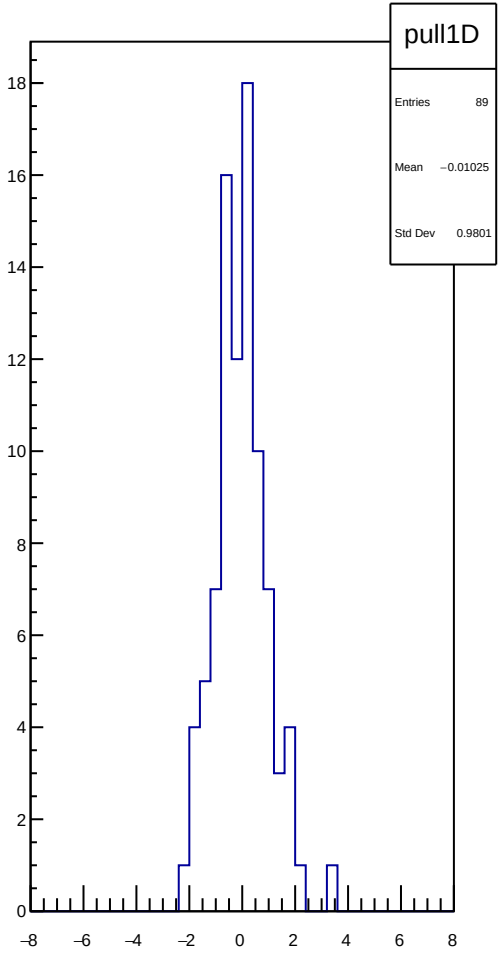

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 85.5 / 88
p0 −1096 ± 806.5
pull
Entries 89
Mean −432.9
Std Dev 0
pull1D
Entries 89
Mean −0.01025
Std Dev 0.9801

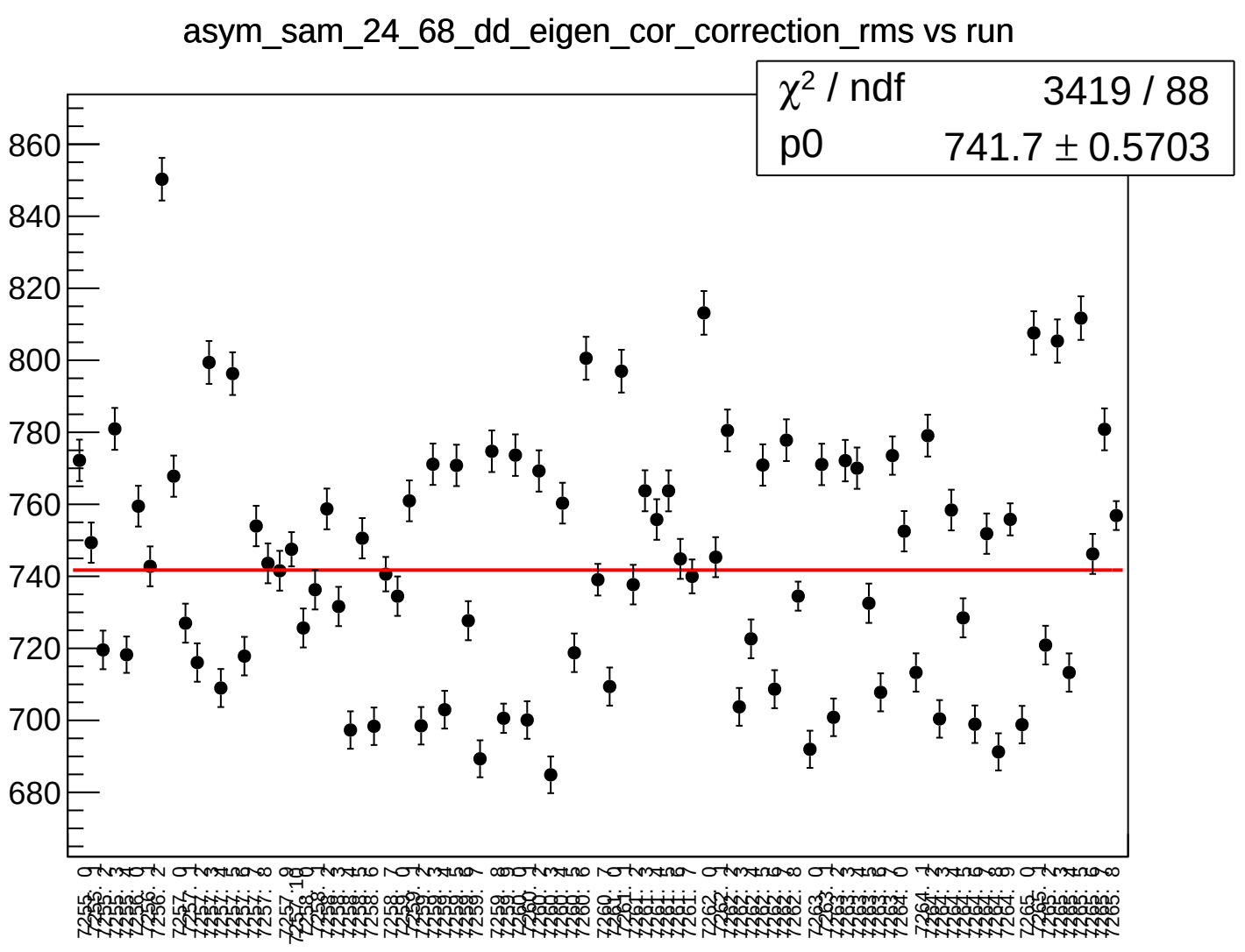

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 3419 / 88
p0 741.7 ± 0.5703
860
840
820
800
780
760
740
720
700
680

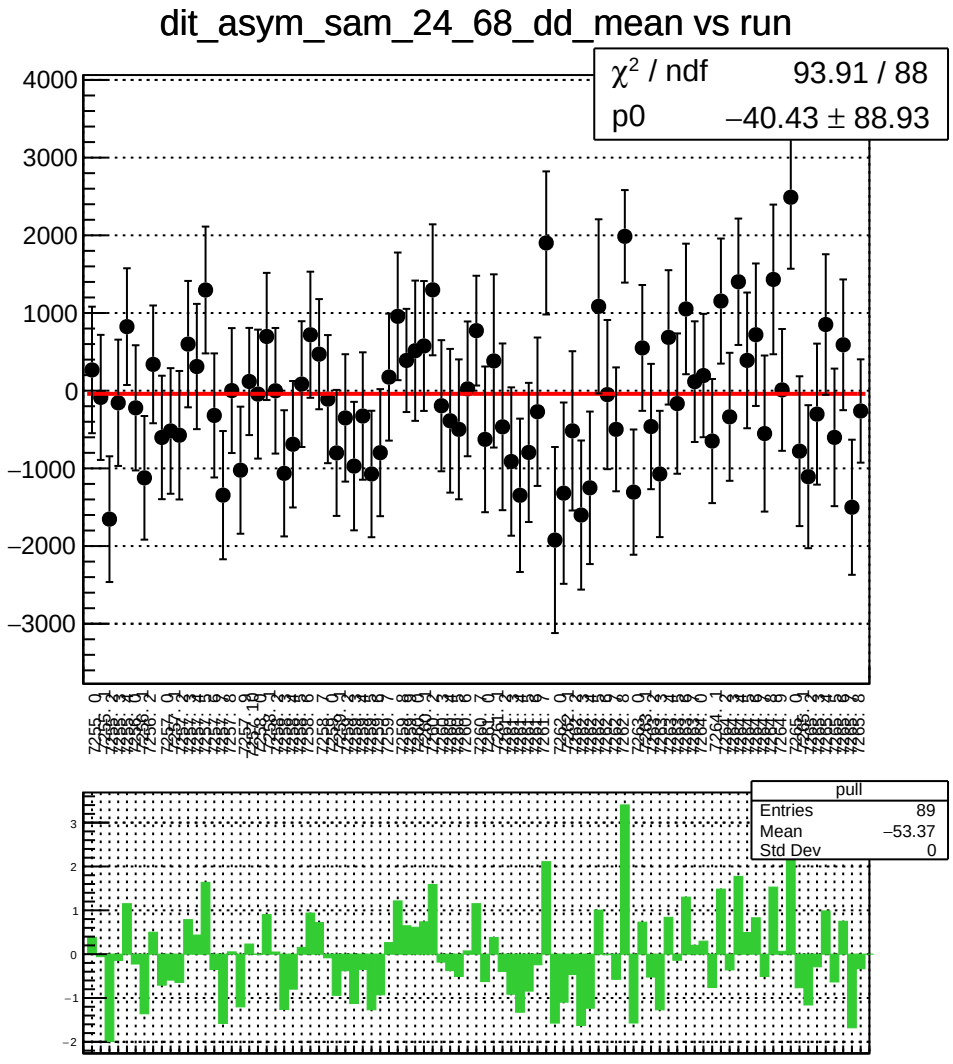

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 96.5 / 88
p0 −32.07 ± 77.69
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 0.5286
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02776
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

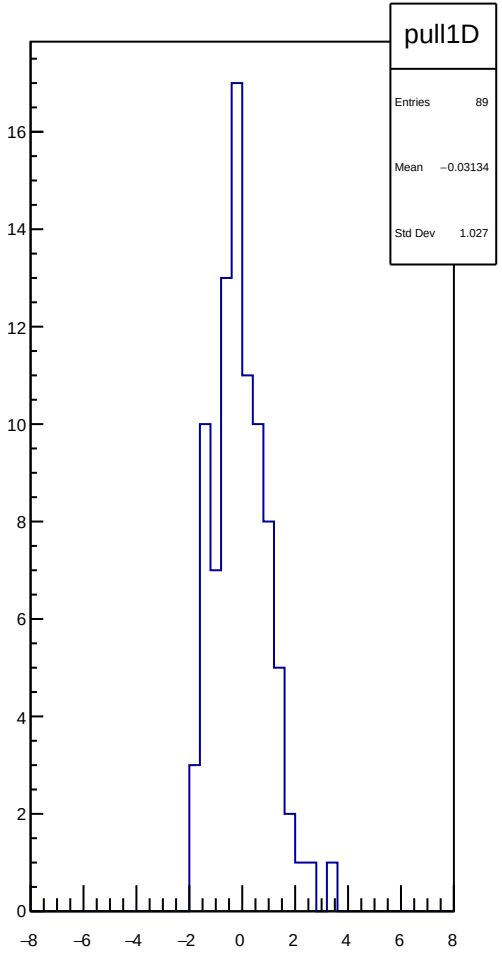

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1581 / 88
p0 71.49 ± 0.05493
80
78
76
74
72
70
68
66

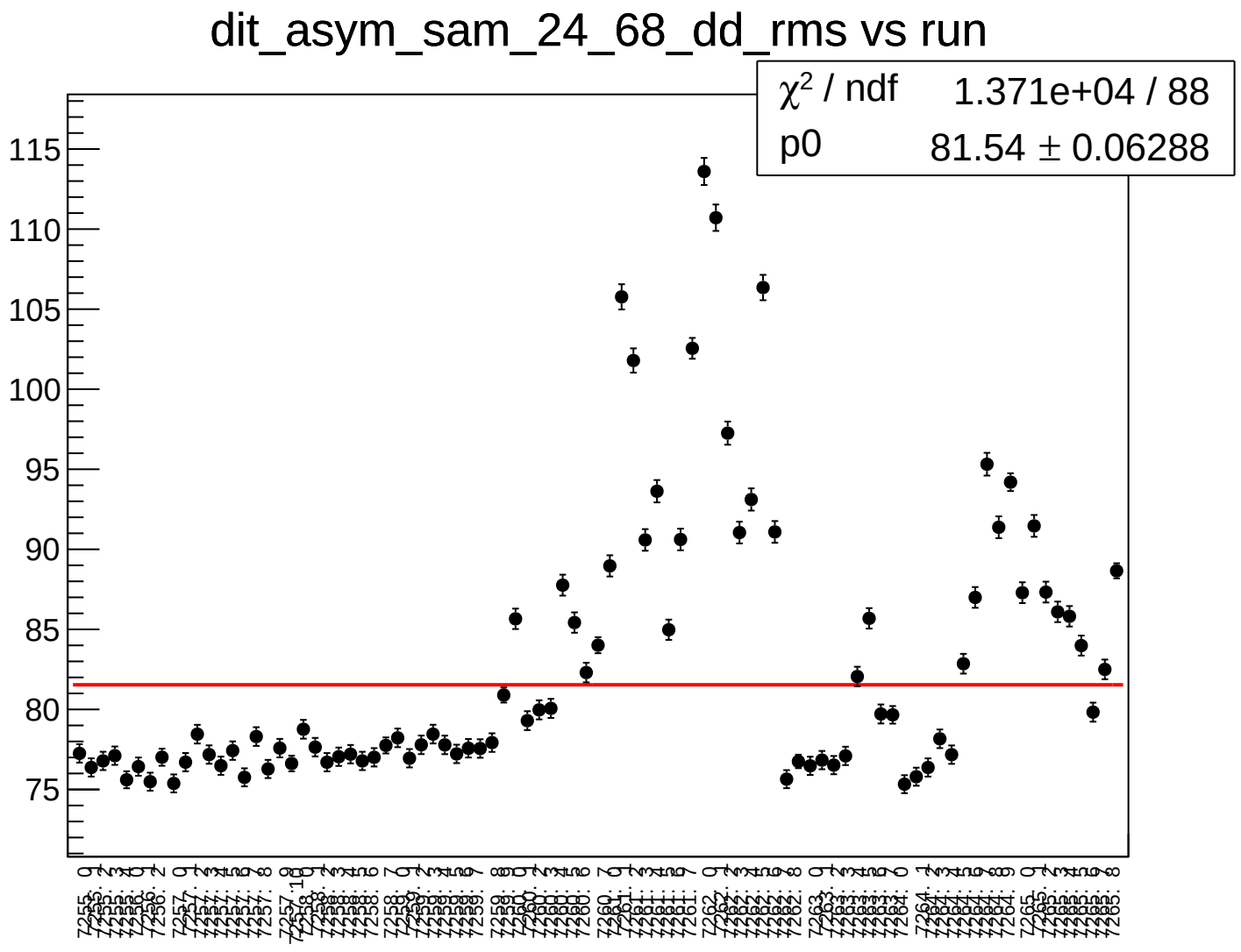

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.5 / 88
p0 −1096 ± 806.5
pull
Entries 89
Mean −432.9
Std Dev 0

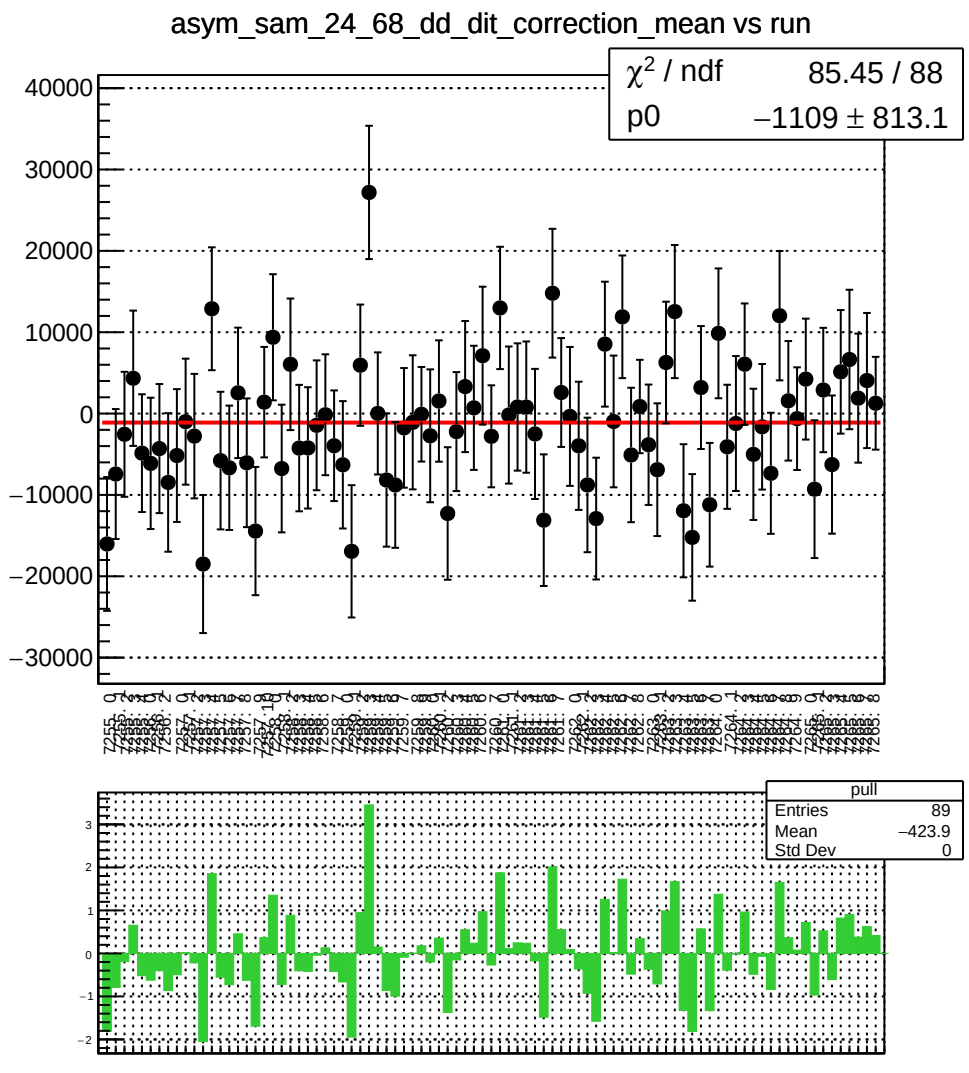

pull1D
Entries 89
Mean −0.01025
Std Dev 0.9801

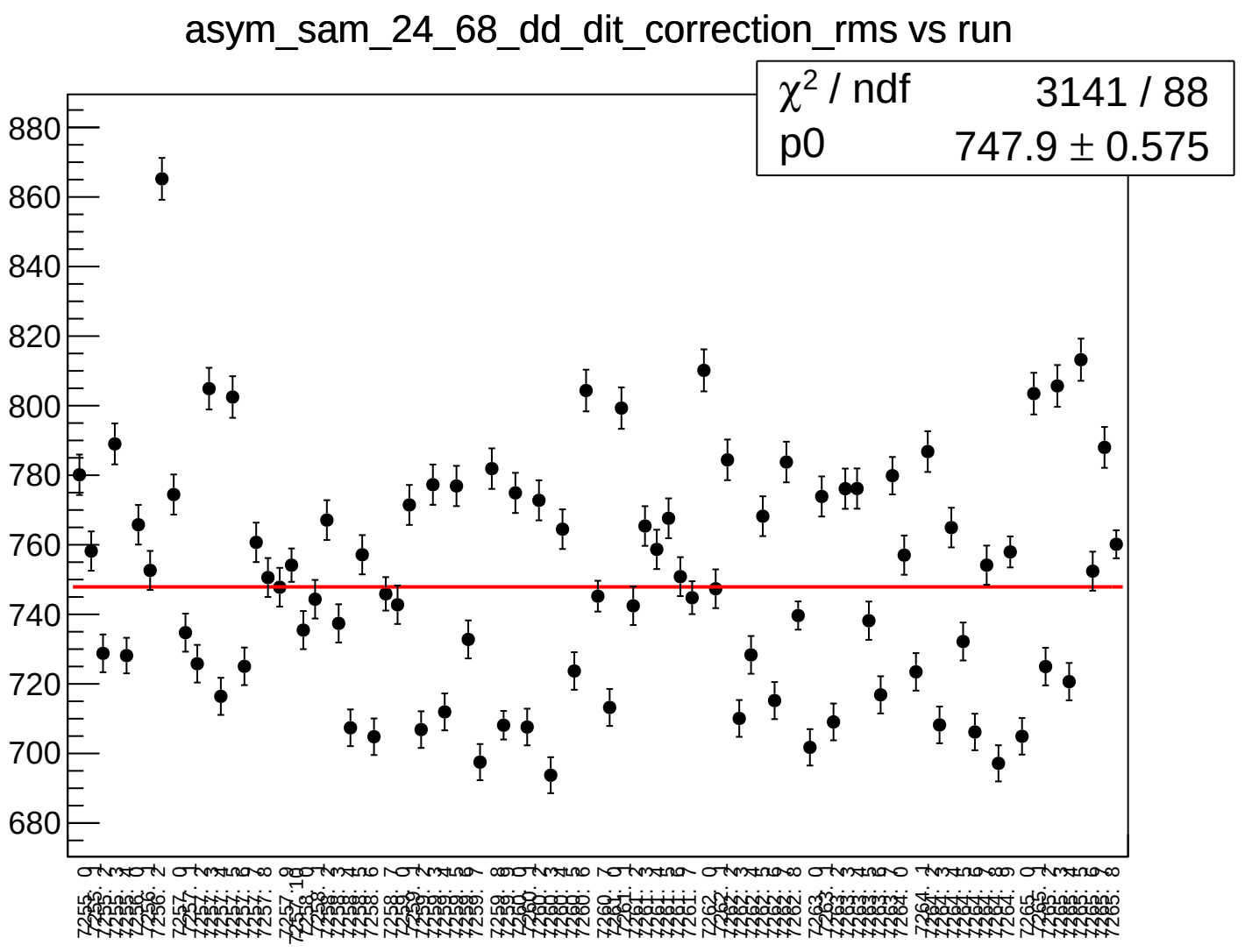

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 3419 / 88
p0 741.7 ± 0.5703
860
840
820
800
780
760
740
720
700
680

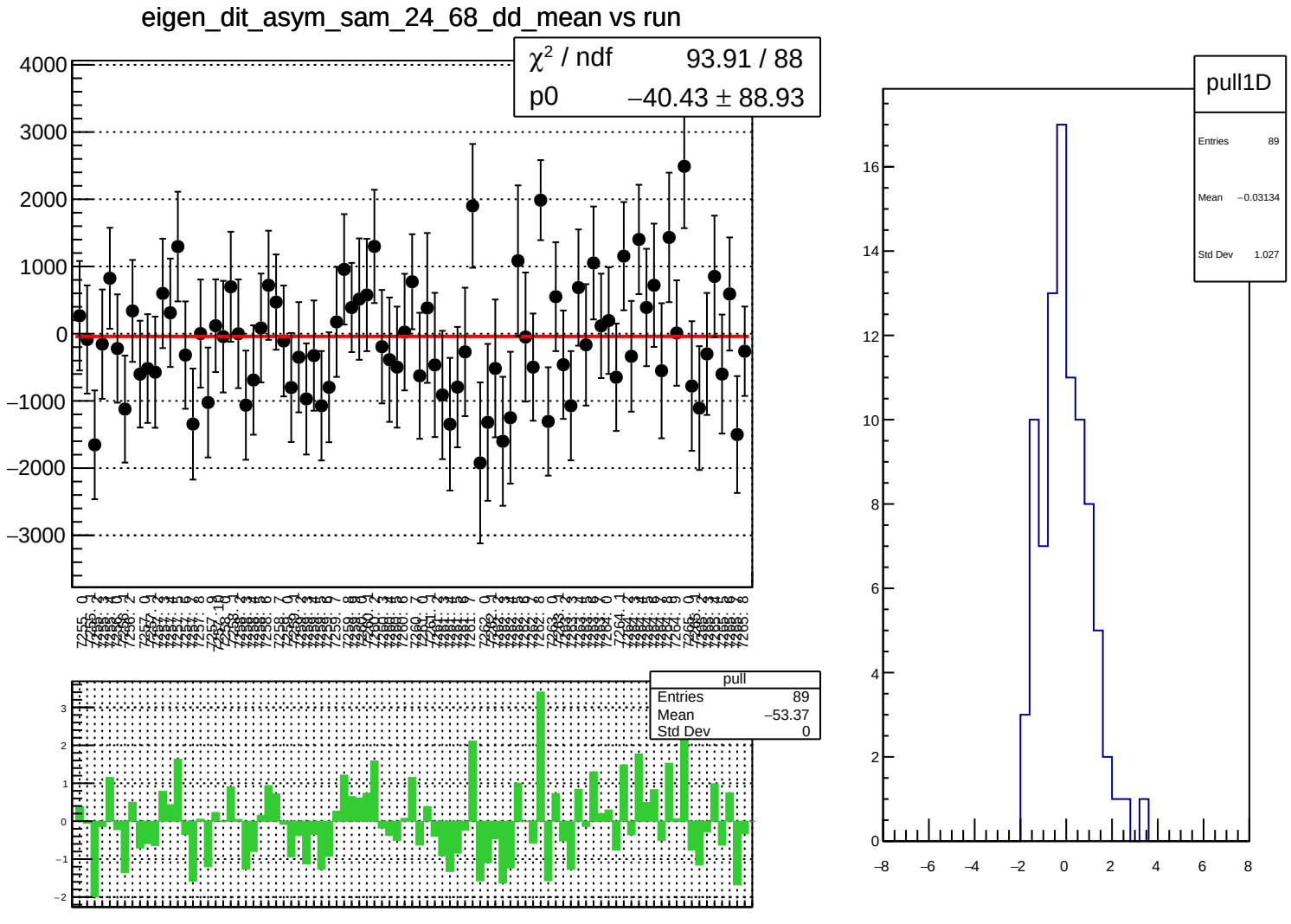

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 93.91 / 88
p0 −40.43 ± 88.93
pull
Entries 89
Mean −53.37
Std Dev 0

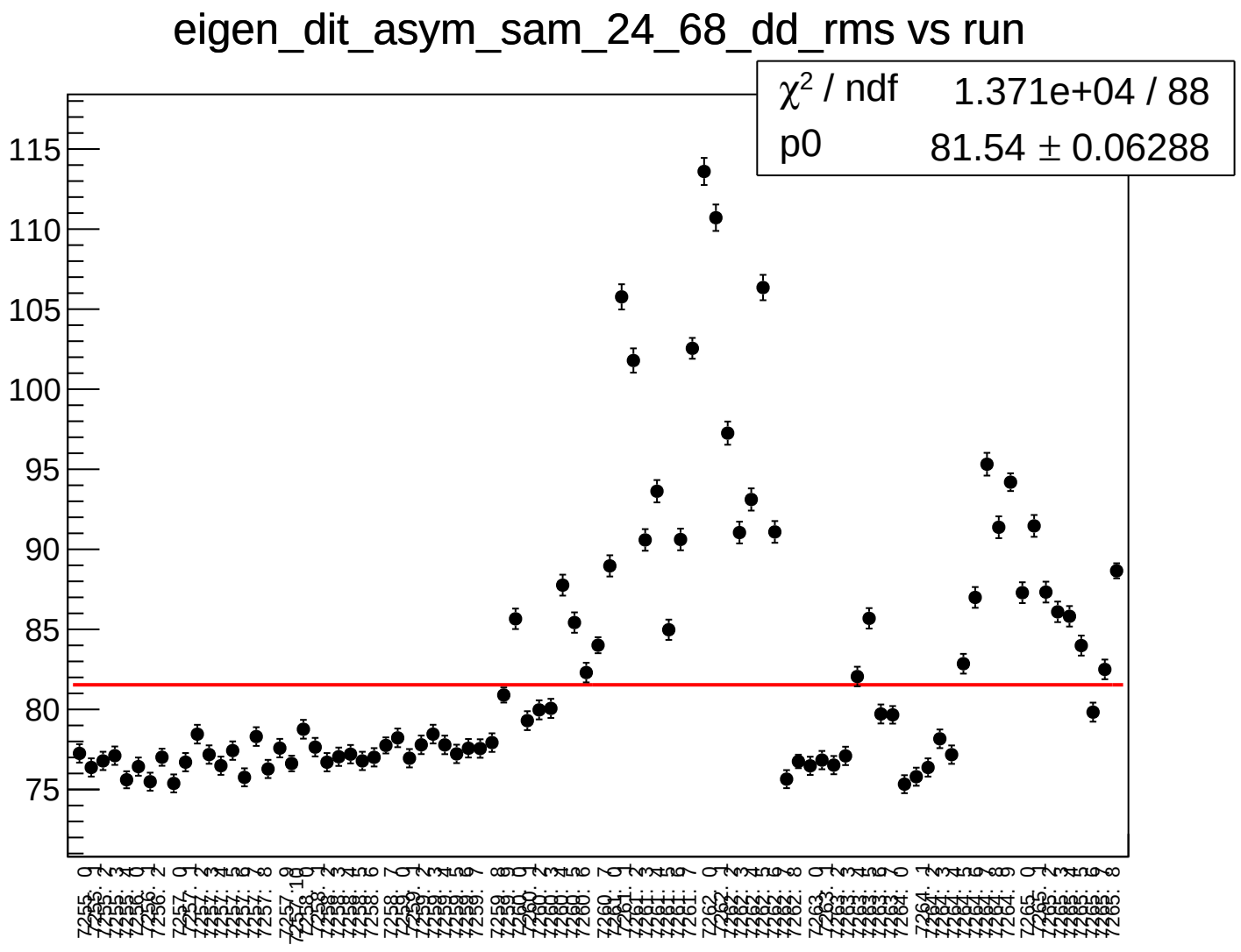

pull1D
Entries 89
Mean −0.03134
Std Dev 1.027

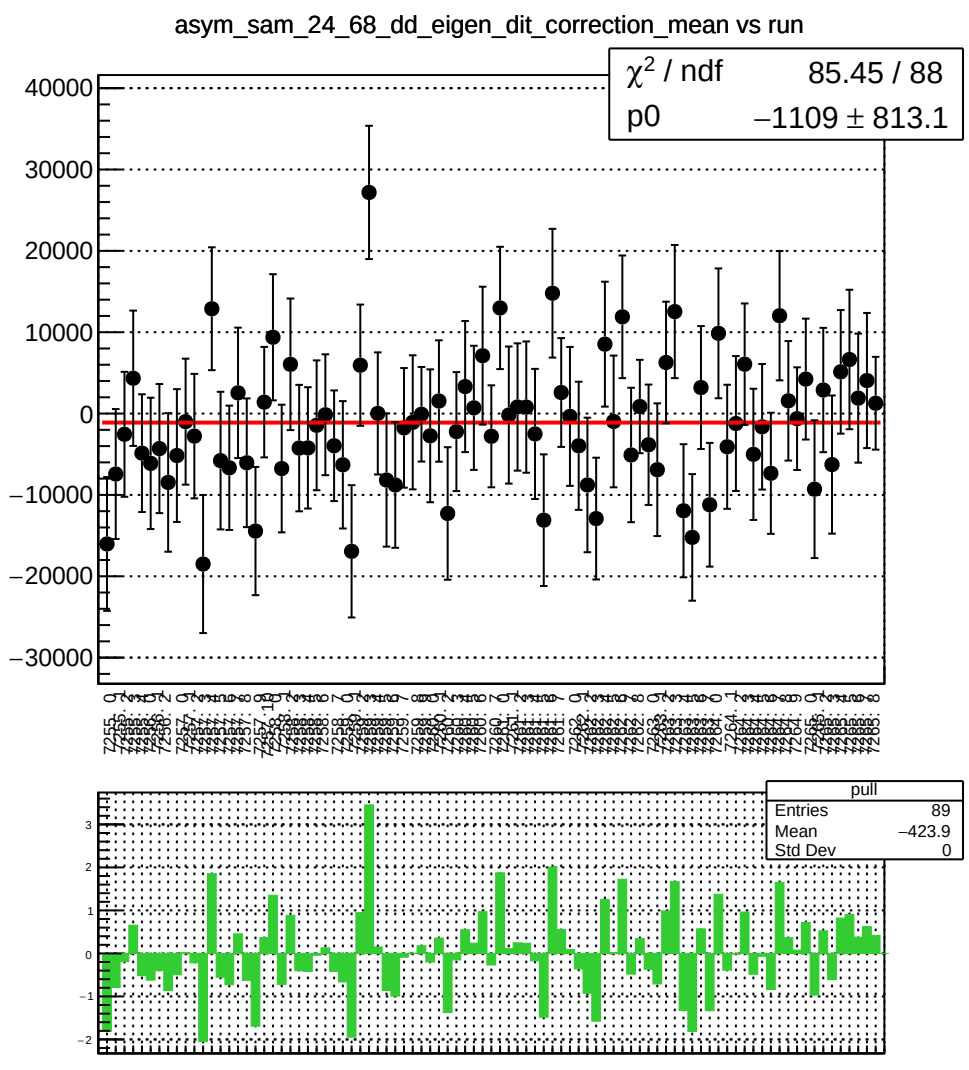

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.371e+04 / 88
p0 81.54 ± 0.06288
115
110
105
100
95
90
85
80
75

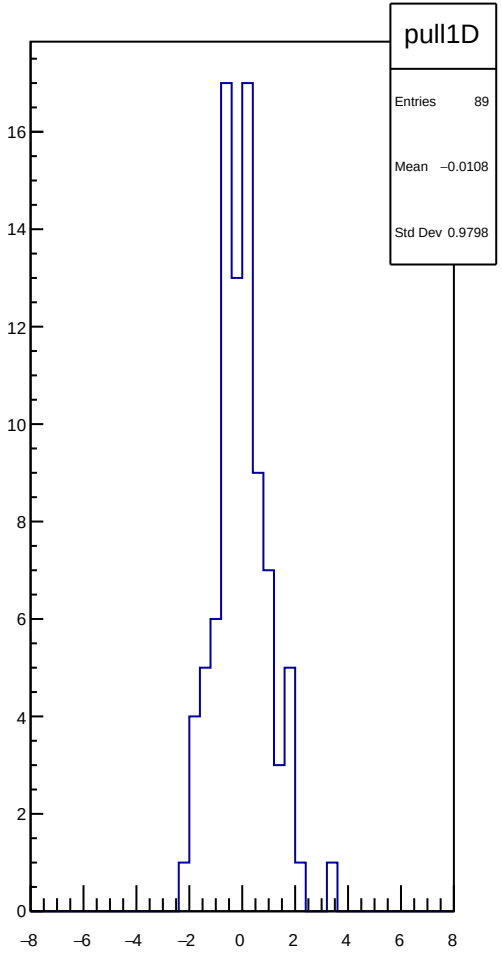

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 85.45 / 88
p0 −1109 ± 813.1
pull
Entries 89
Mean −423.9
Std Dev 0
pull1D
Entries 89
Mean −0.0108
Std Dev 0.9798

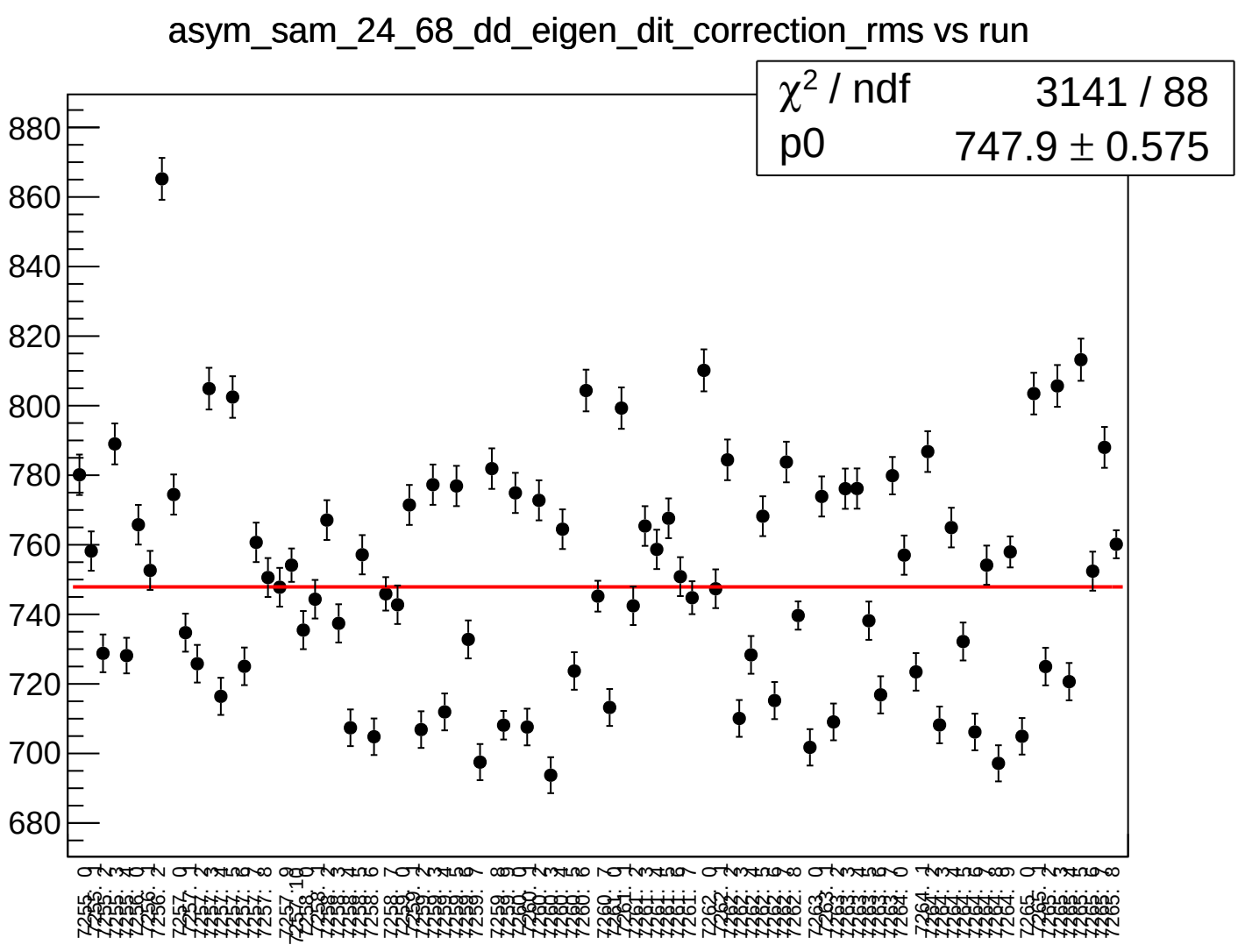

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 3141 / 88
p0 747.9 ± 0.575
880
860
840
820
800
780
760
740
720
700
680

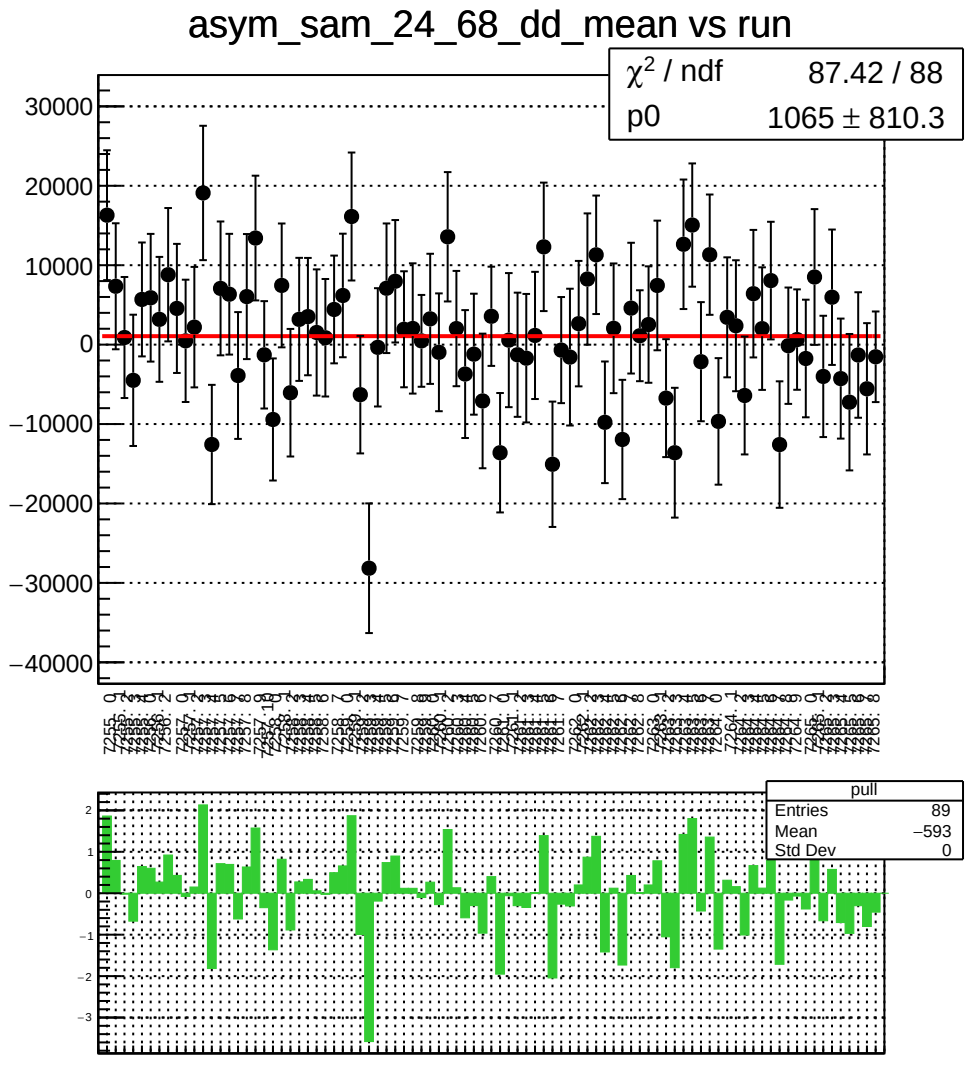

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 93.91 / 88
p0 −40.43 ± 88.93
pull
Entries 89
Mean −53.37
Std Dev 0
pull1D
Entries 89
Mean −0.03134
Std Dev 1.027

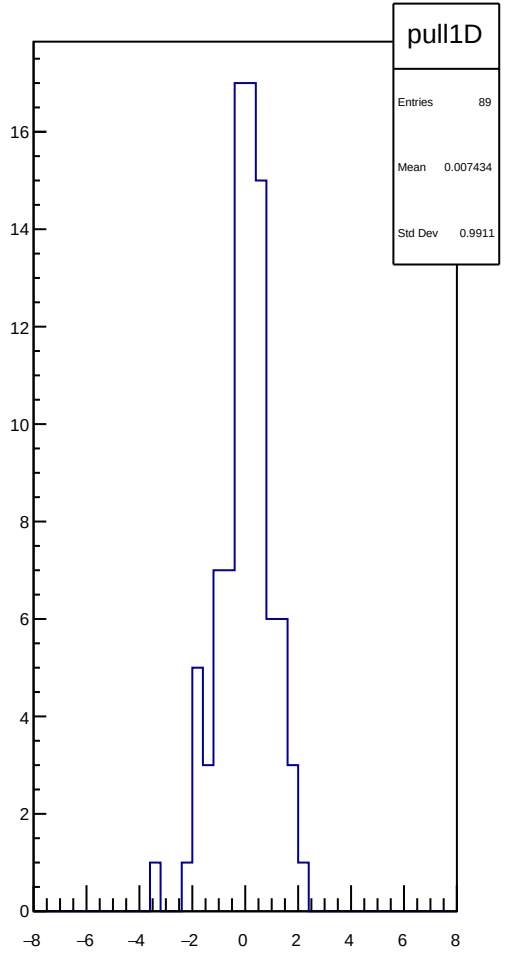

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.371e+04 / 88
p0 81.54 ± 0.06288
115
110
105
100
95
90
85
80
75

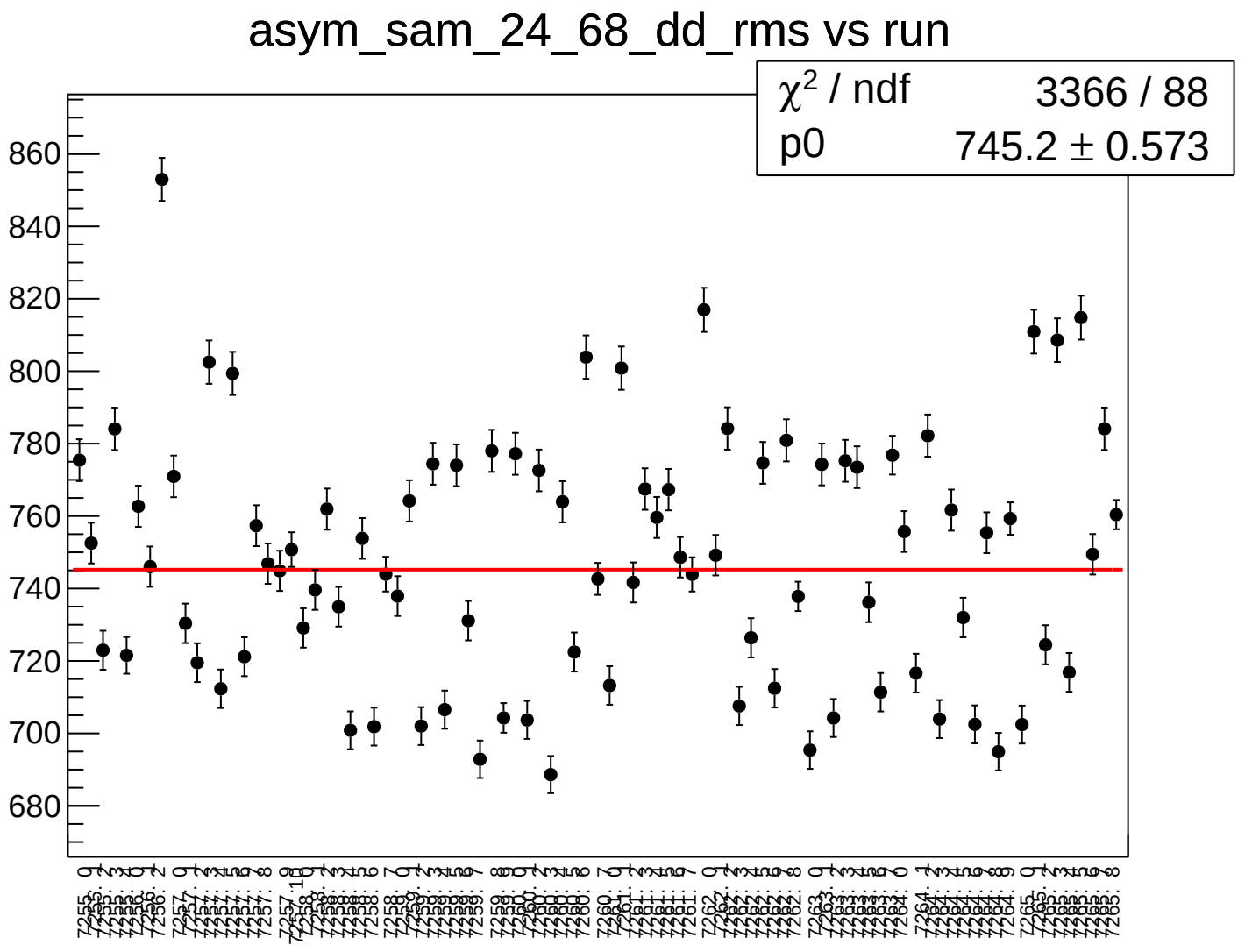

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ^2 / ndf 85.45 / 88
p0 −1109 ± 813.1
pull
Entries 89
Mean −423.9
Std Dev 0

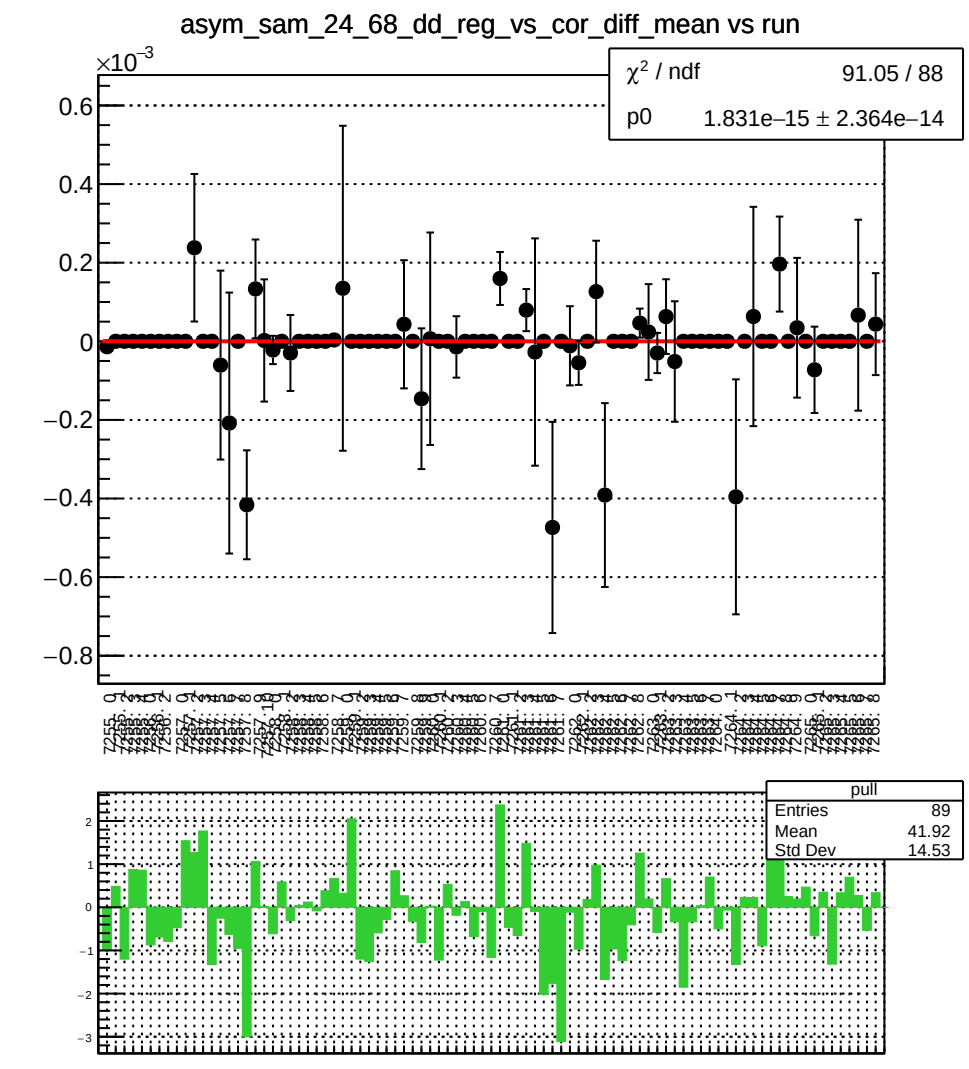

pull1D
Entries 89
Mean −0.0108
Std Dev 0.9798

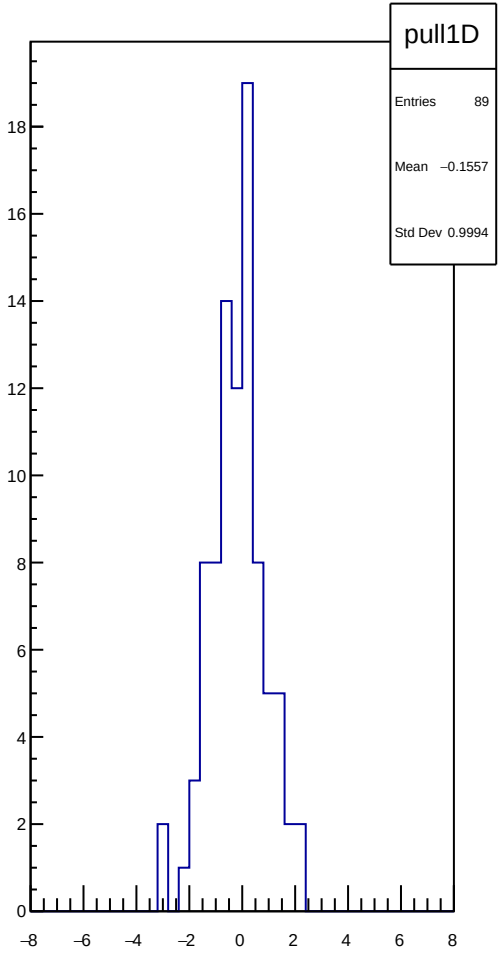

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 3141 / 88
p0 747.9 ± 0.575
880
860
840
820
800
780
760
740
720
700
680

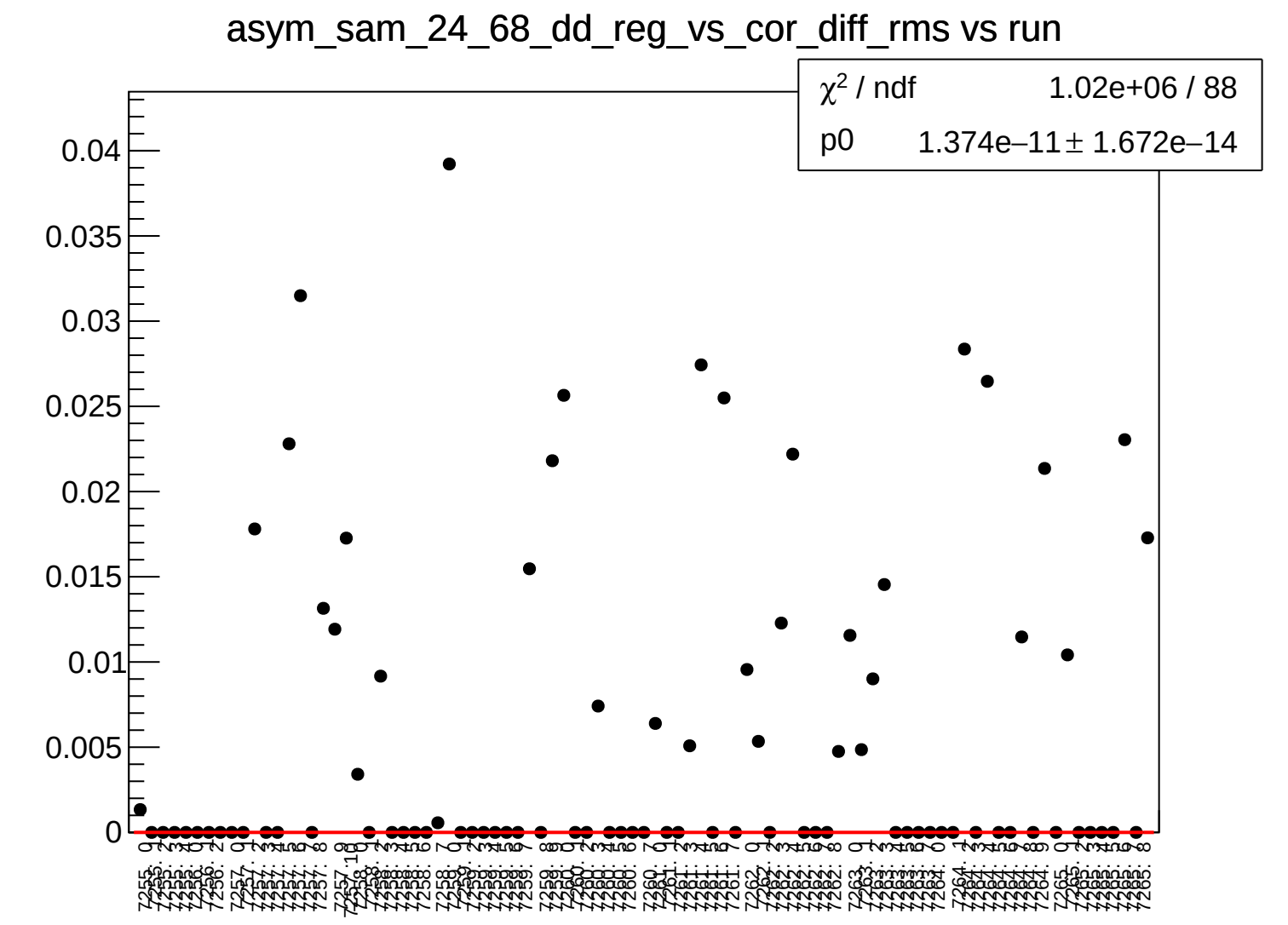

asym_sam_24_68_dd_mean vs run
χ² / ndf 87.42 / 88
p0 1065 ± 810.3
pull
Entries 89
Mean −593
Std Dev 0

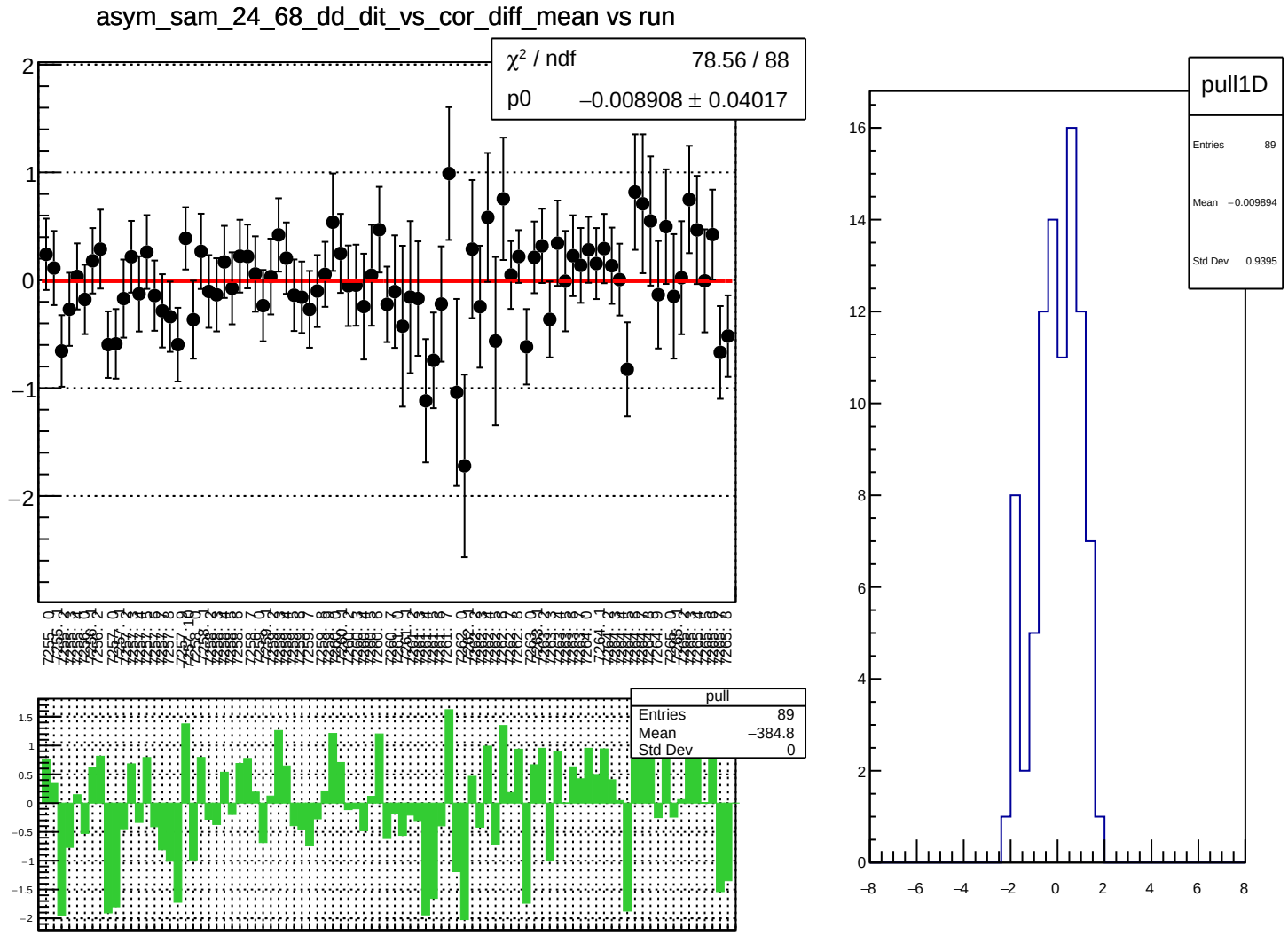

pull1D
Entries 89
Mean 0.007434
Std Dev 0.9911

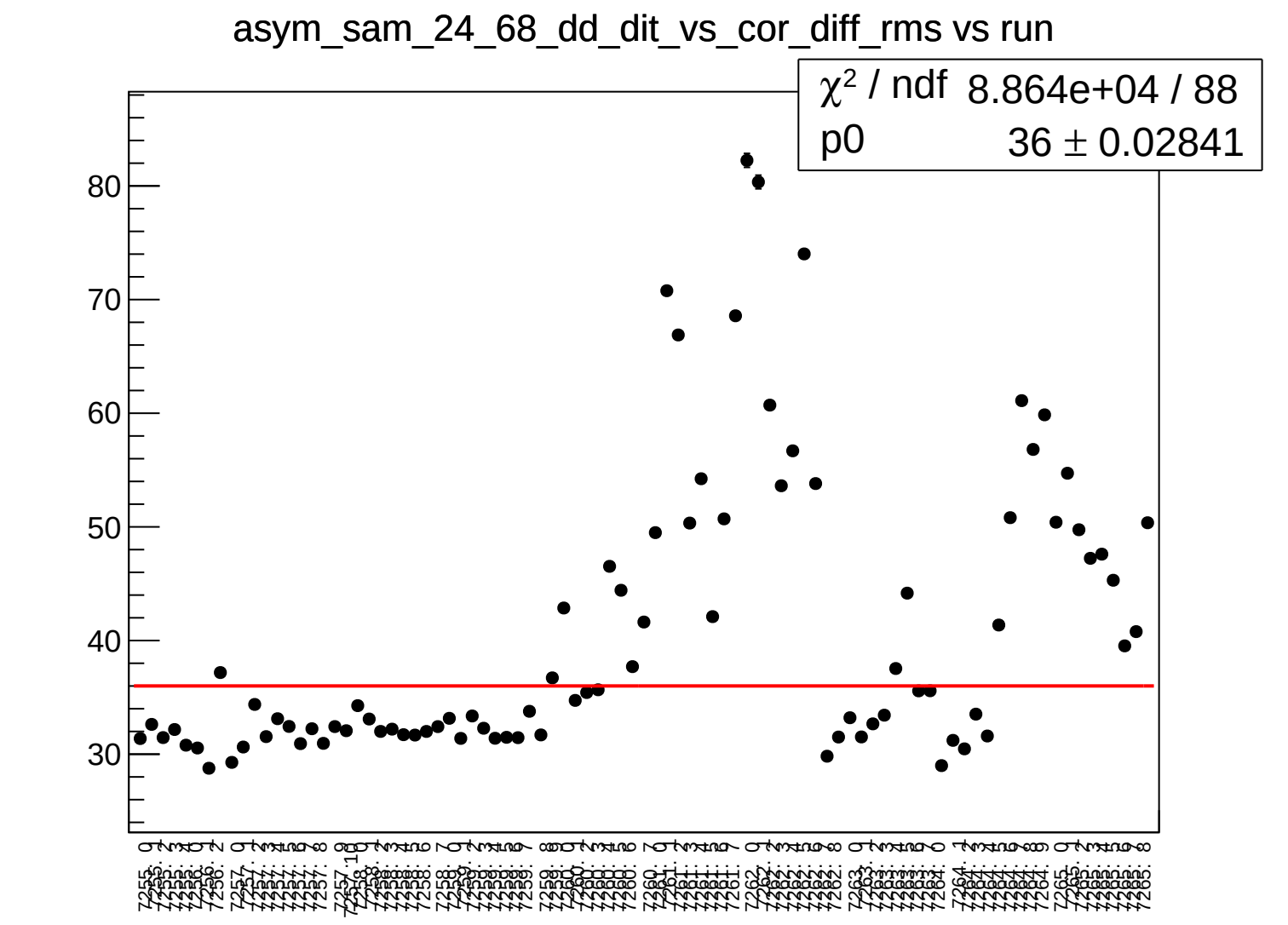

asym_sam_24_68_dd_rms vs run
χ² / ndf 3366 / 88
p0 745.2 ± 0.573
860
840
820
800
780
760
740
720
700
680

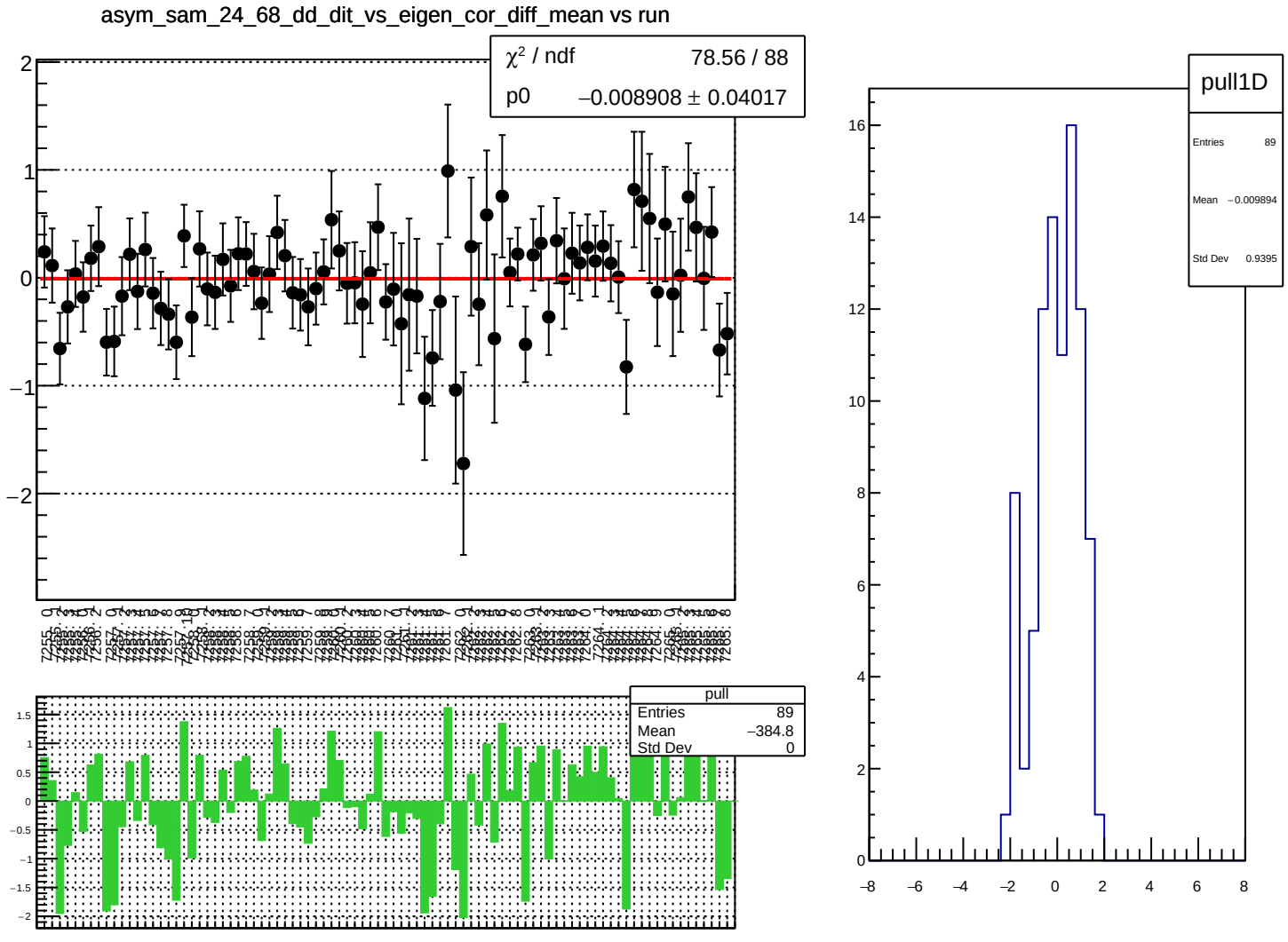

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 91.05 / 88
p0 1.831e−15 ± 2.364e−14
pull
Entries 89
Mean 41.92
Std Dev 14.53

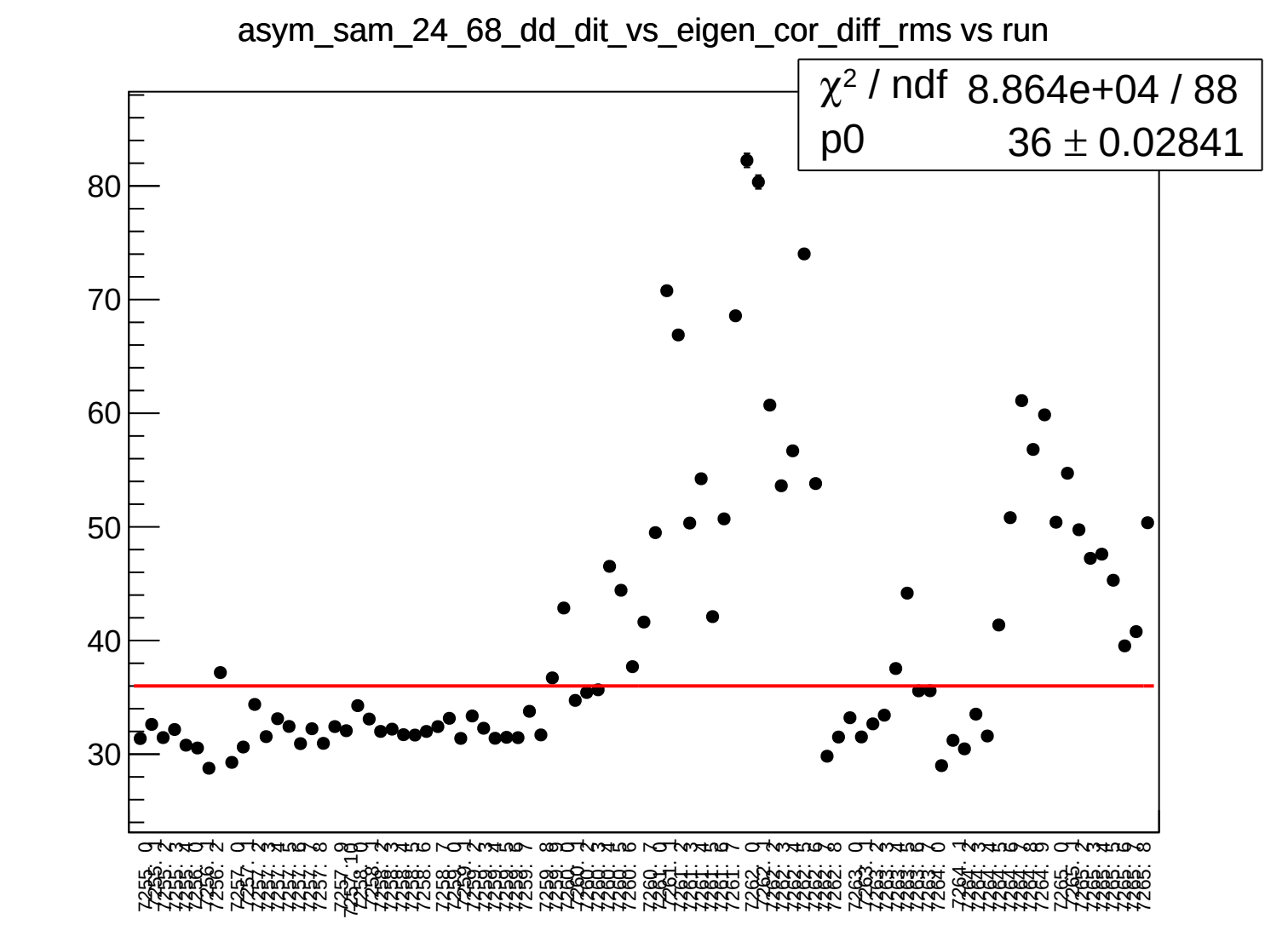

pull1D
Entries 89
Mean −0.1557
Std Dev 0.9994

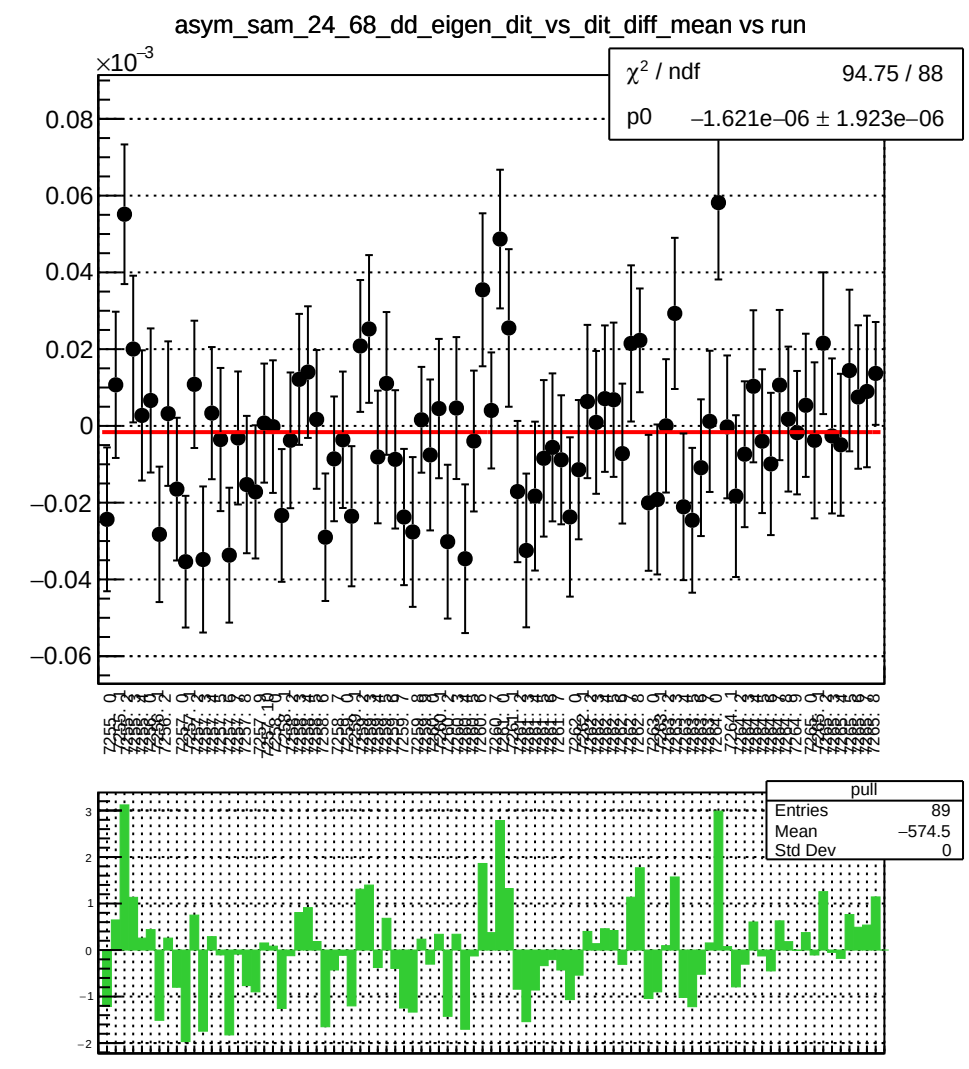

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.02e+06 / 88
p0 1.374e−11 ± 1.672e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

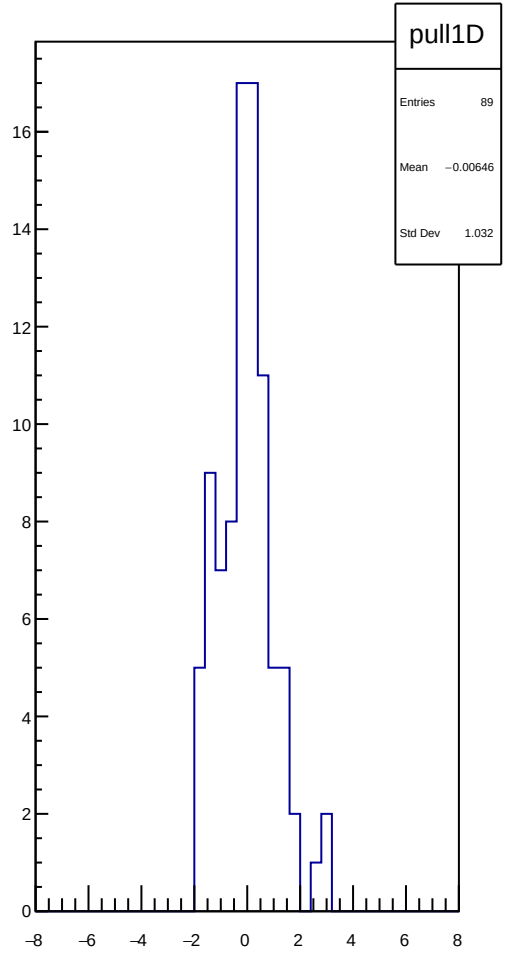

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.56 / 88
p0 −0.008908 ± 0.04017
pull
Entries 89
Mean −384.8
Std Dev 0
pull1D
Entries 89
Mean −0.009894
Std Dev 0.9395

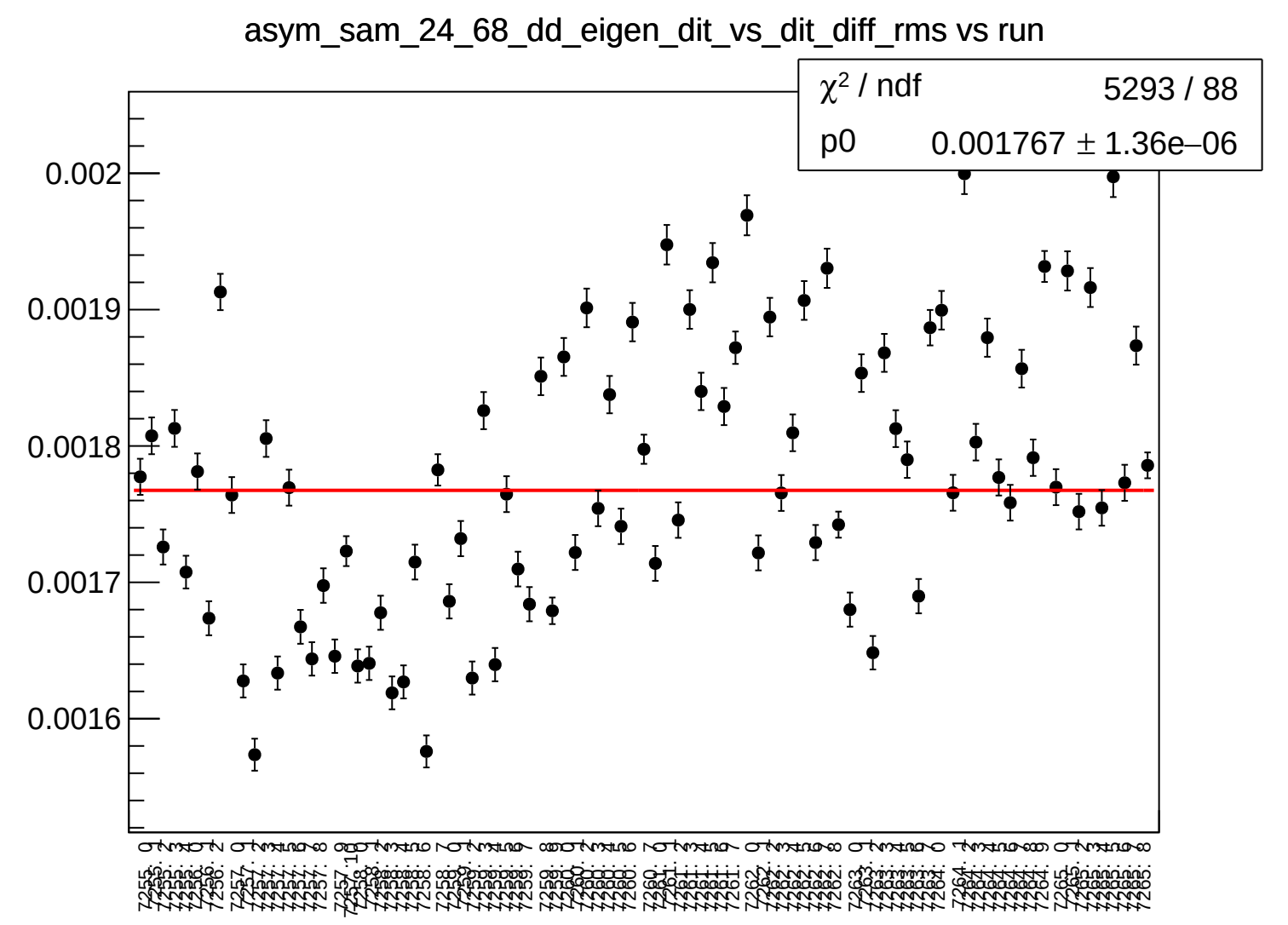

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.864e+04 / 88
p0 36 ± 0.02841
80
70
60
50
40
30

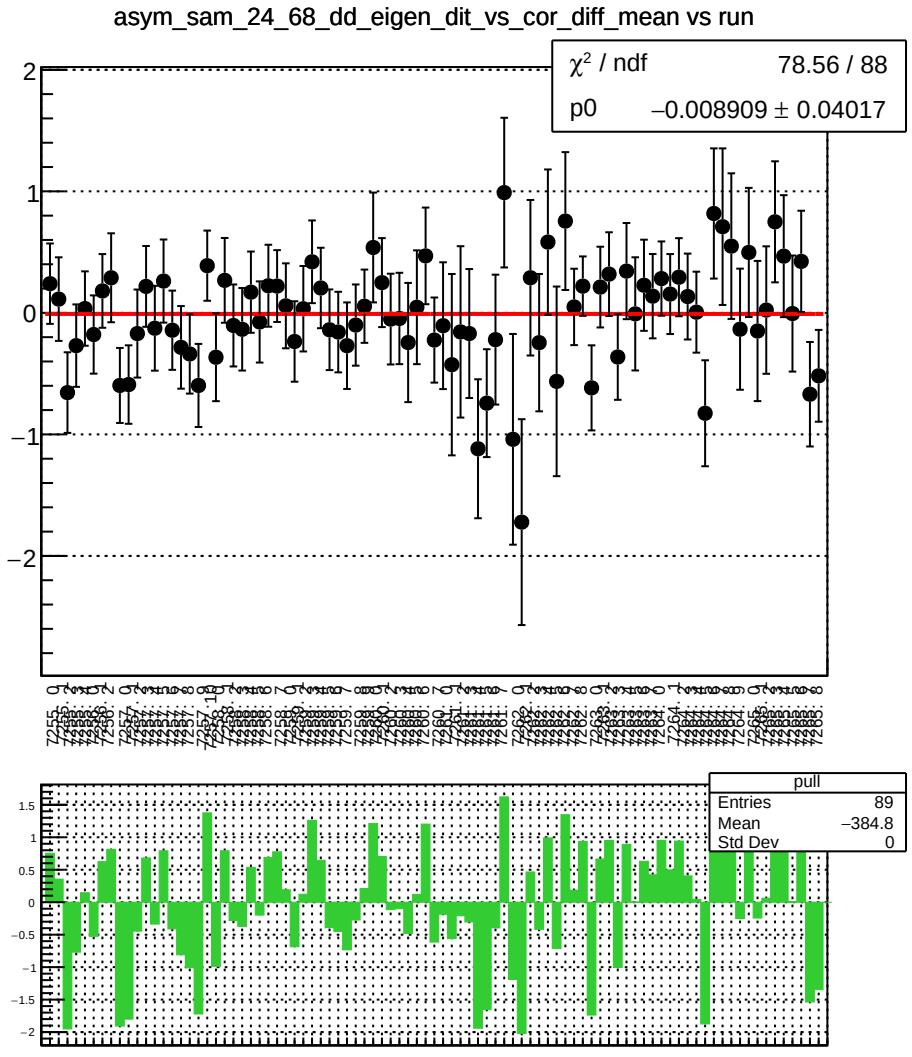

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.56 / 88
p0 −0.008908 ± 0.04017
pull
Entries 89
Mean −384.8
Std Dev 0
pull1D
Entries 89
Mean −0.009894
Std Dev 0.9395

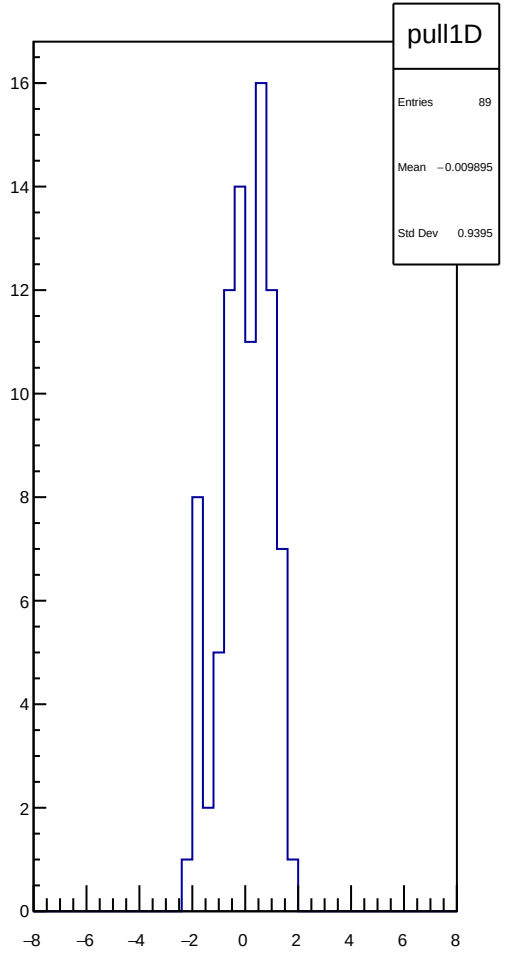

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.864e+04 / 88
p0 36 ± 0.02841
80
70
60
50
40
30

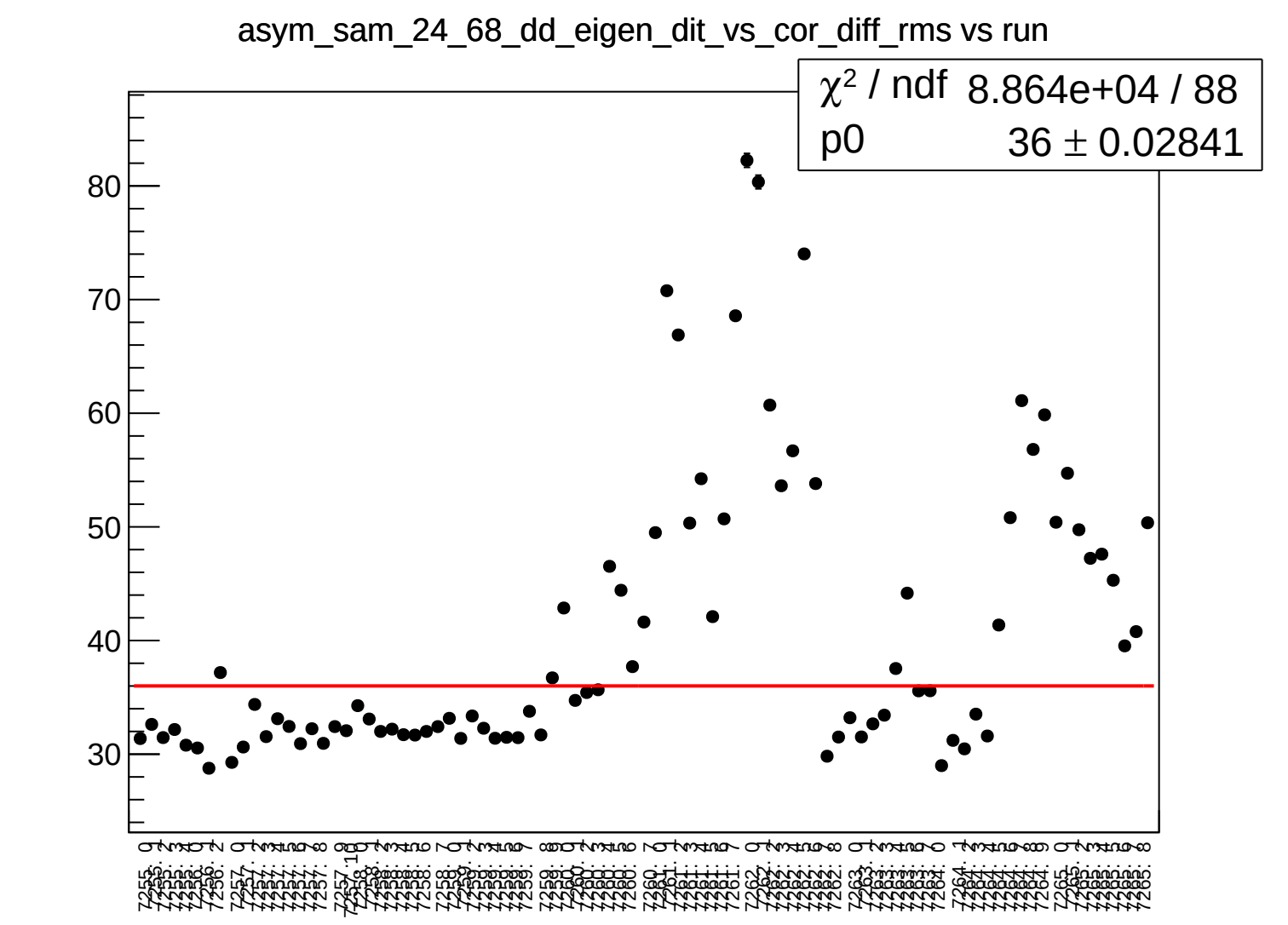

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.75 / 88
p0 −1.621e−06 ± 1.923e−06
pull
Entries 89
Mean −574.5
Std Dev 0

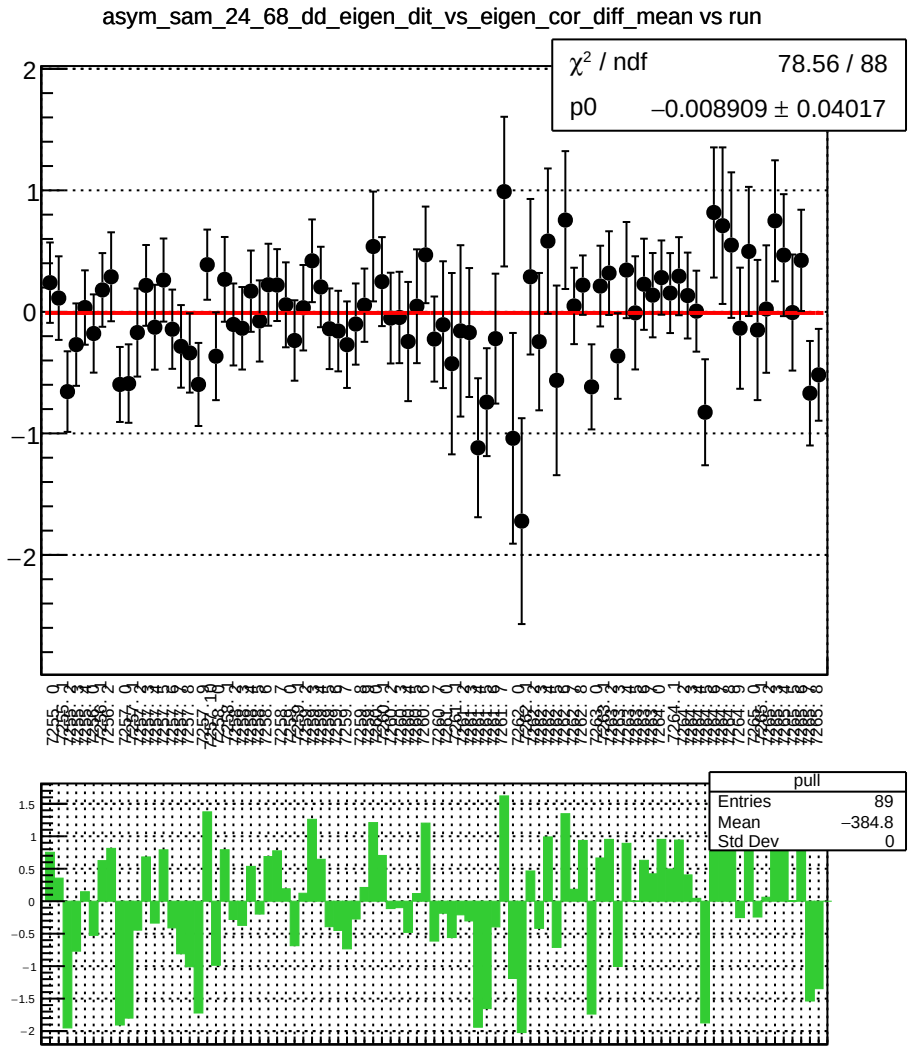

pull1D
Entries 89
Mean −0.00646
Std Dev 1.032

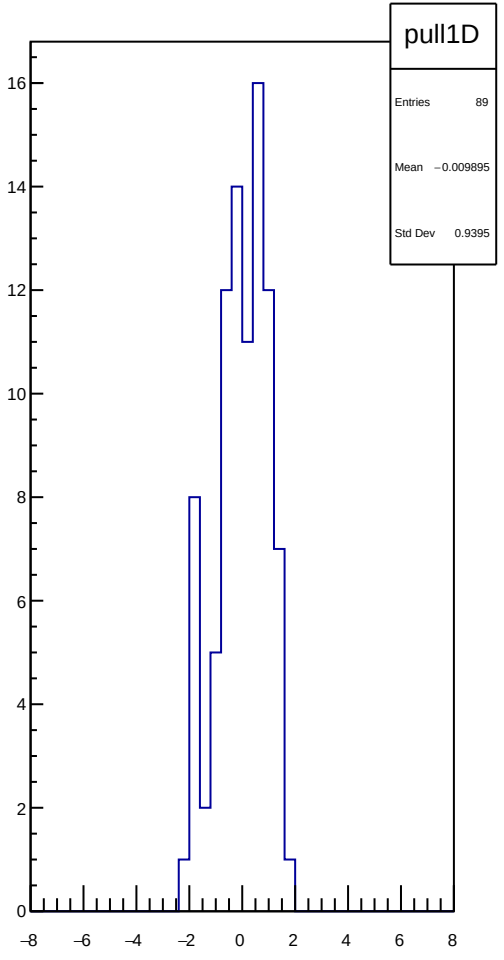

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5293 / 88
p0 0.001767 ± 1.36e−06
0.002
0.0019
0.0018
0.0017
0.0016

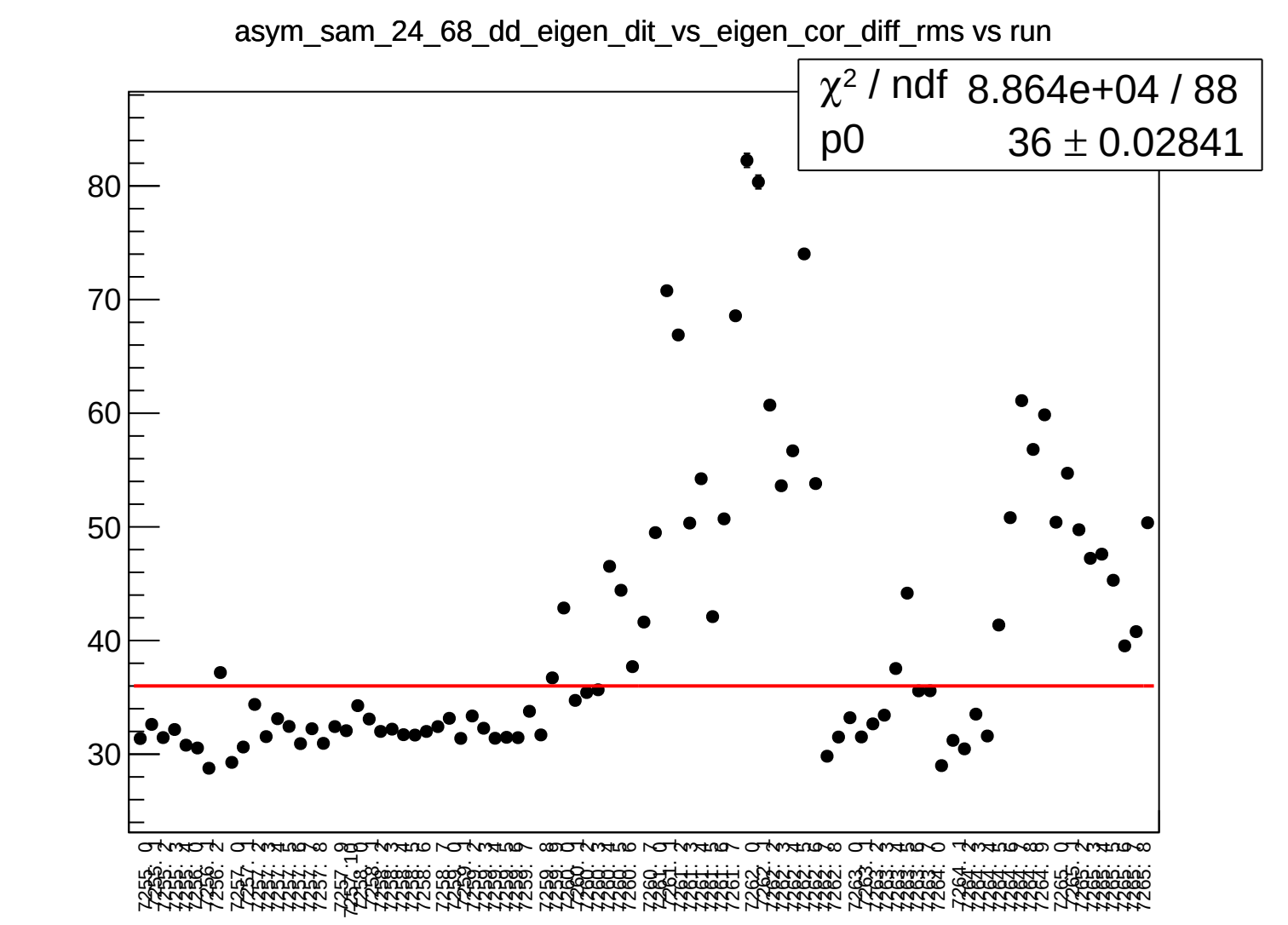

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.56 / 88
p0 −0.008909 ± 0.04017
pull
Entries 89
Mean −384.8
Std Dev 0

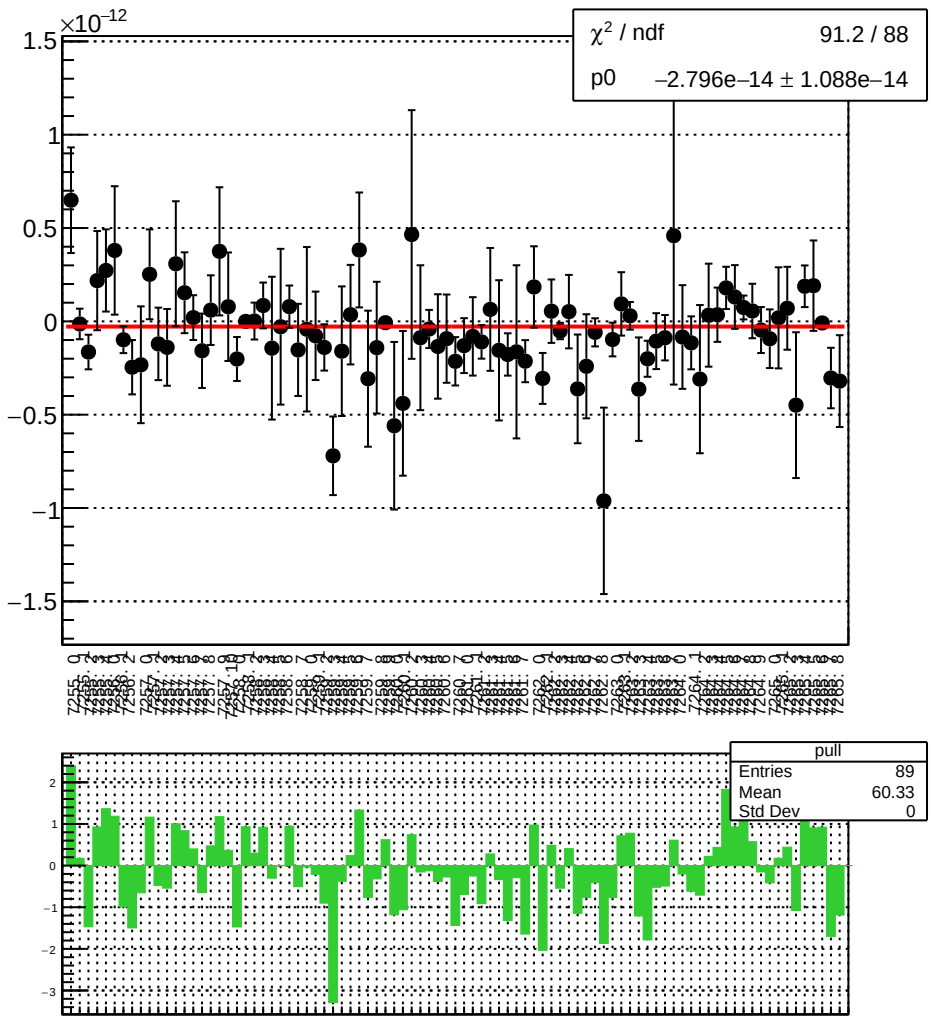

pull1D
Entries 89
Mean −0.009895
Std Dev 0.9395

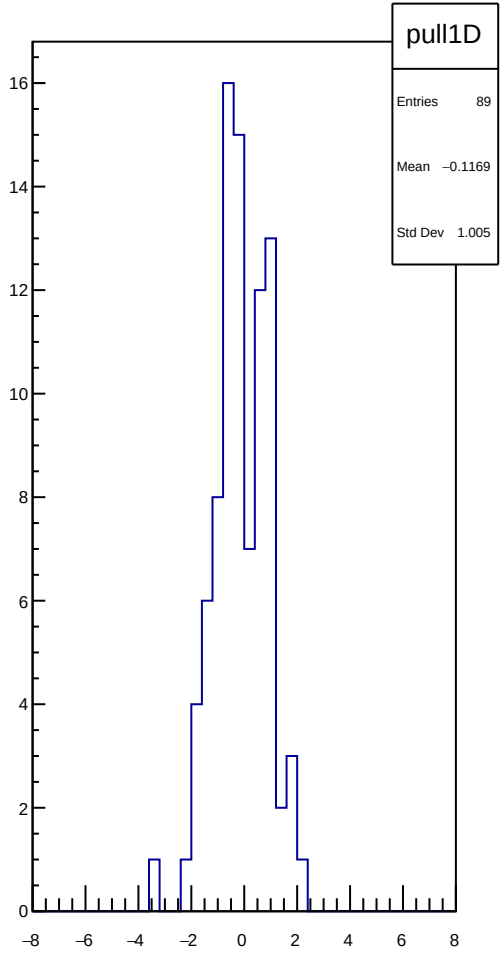

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.864e+04 / 88
p0 36 ± 0.02841
80
70
60
50
40
30

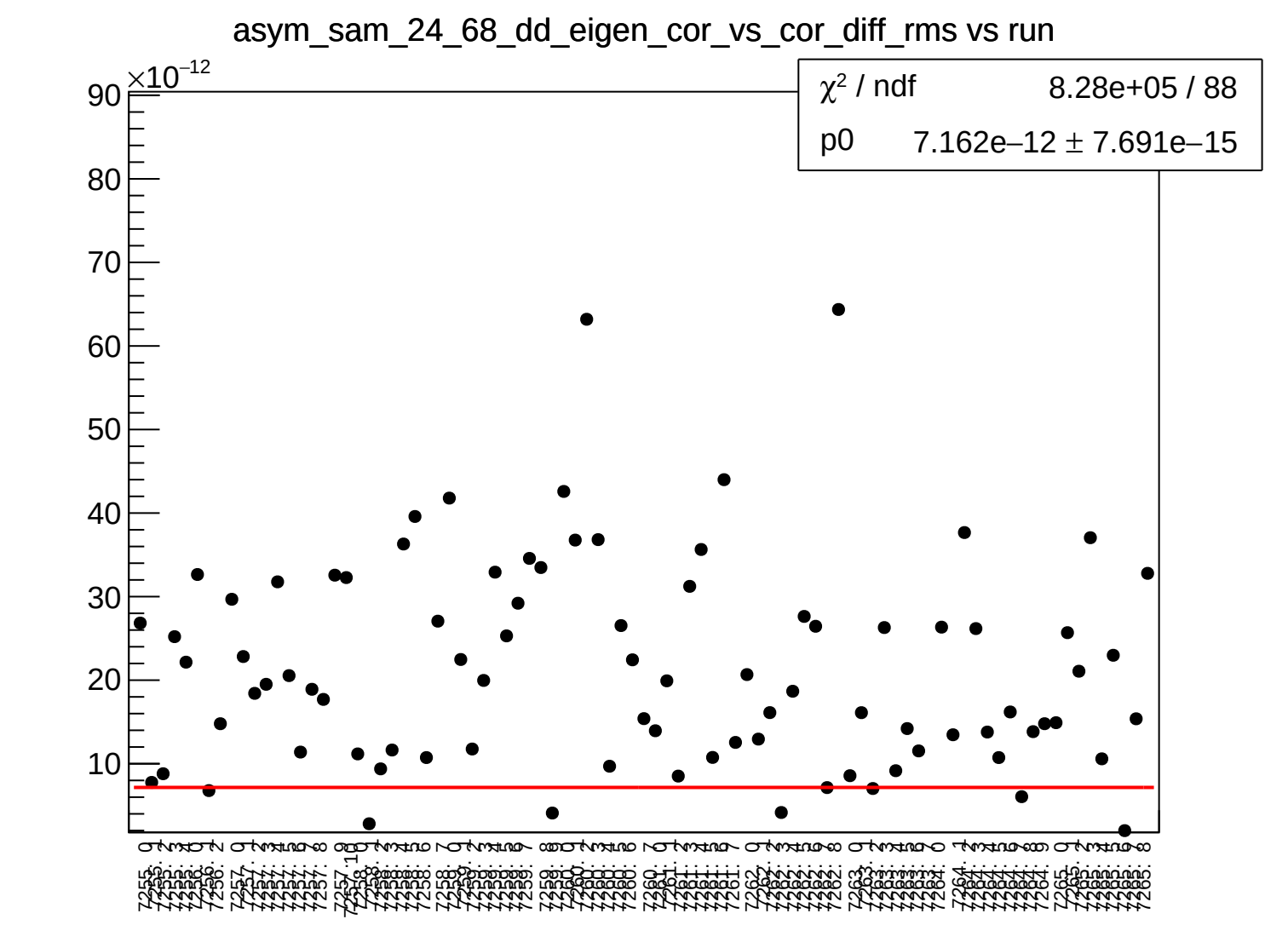

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.56 / 88
p0 −0.008909 ± 0.04017
pull
Entries 89
Mean −384.8
Std Dev 0

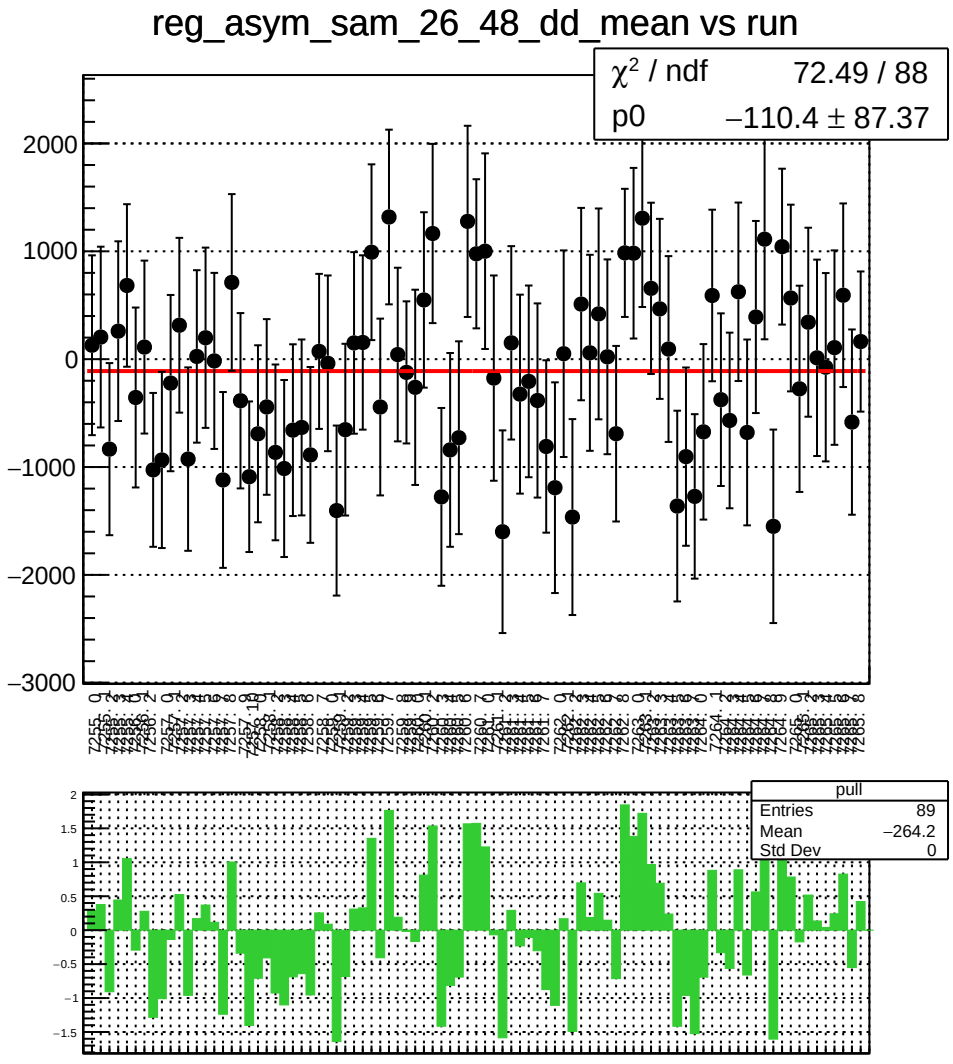

pull1D
Entries 89
Mean −0.009895
Std Dev 0.9395

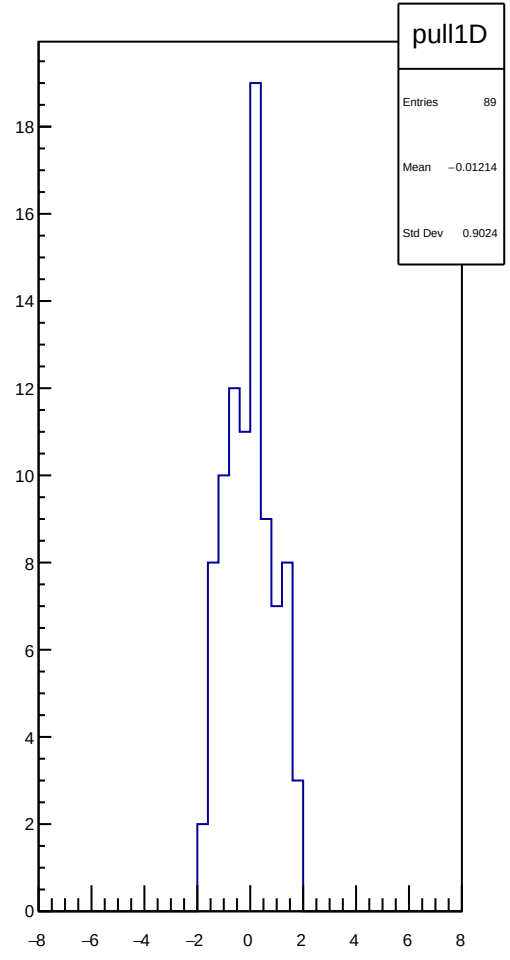

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.864e+04 / 88
p0 36 ± 0.02841
80
70
60
50
40
30

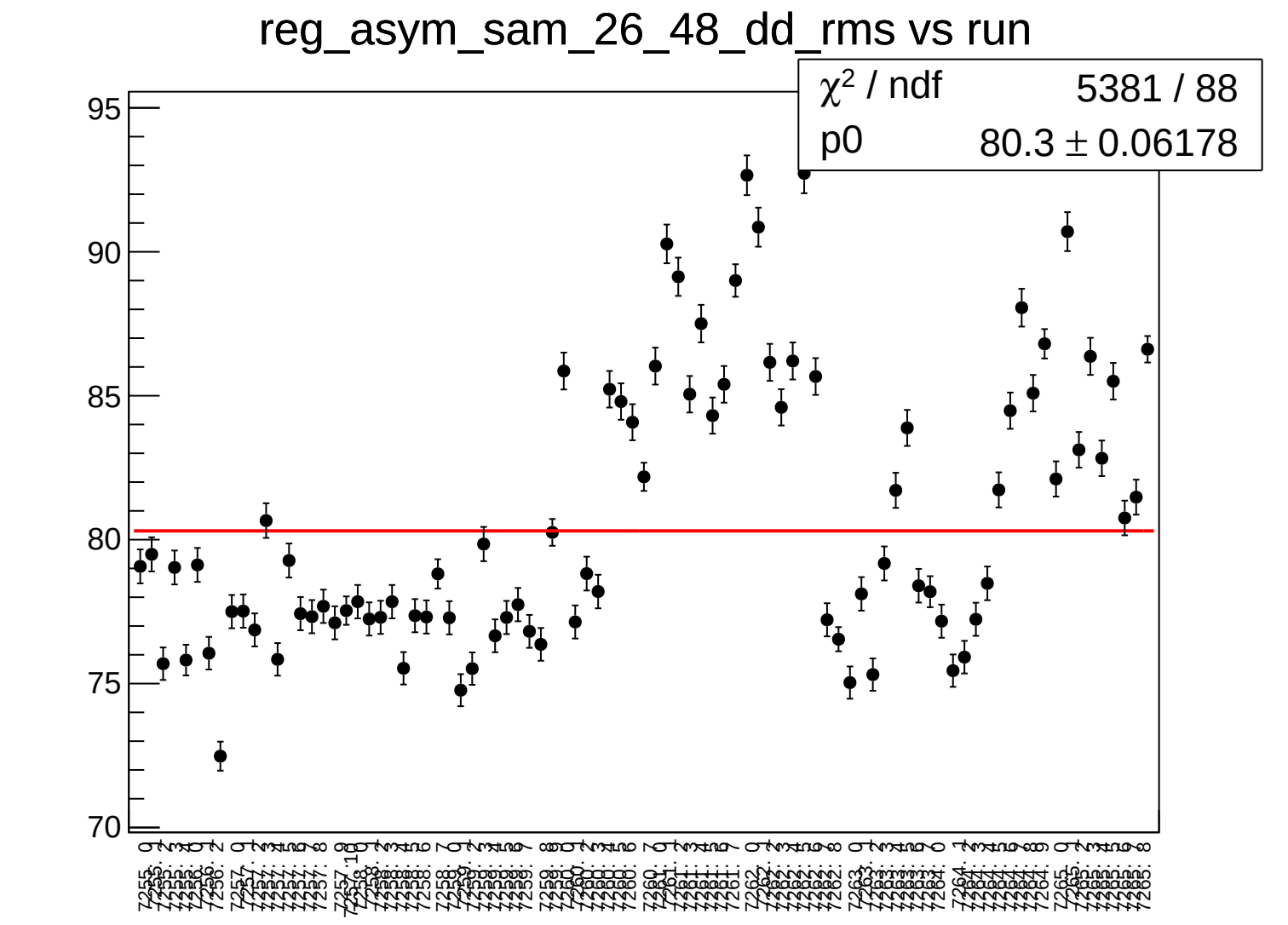

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.2 / 88
p0 −2.796e−14 ± 1.088e−14
pull
Entries 89
Mean 60.33
Std Dev 0

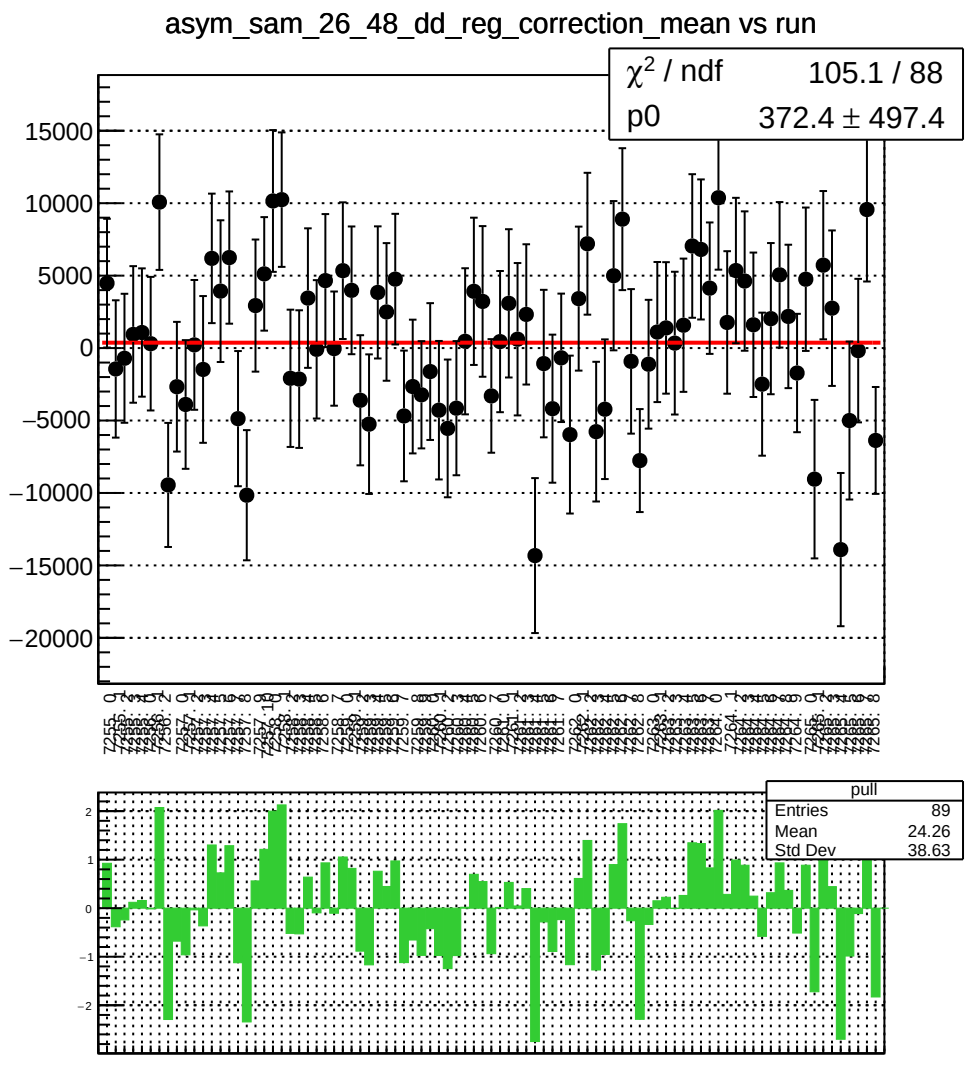

pull1D
Entries 89
Mean −0.1169
Std Dev 1.005

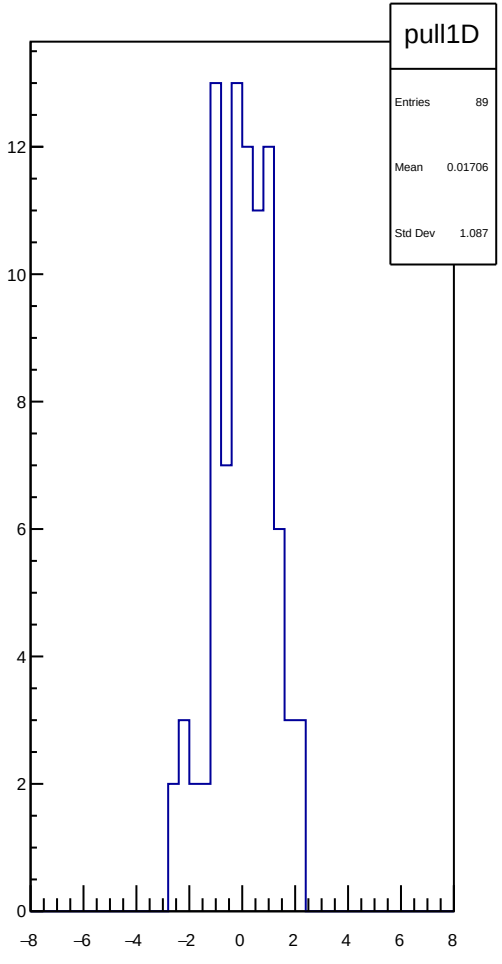

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.28e+05 / 88
p0 7.162e−12 ± 7.691e−15
90
80
70
60
50
40
30
20
10

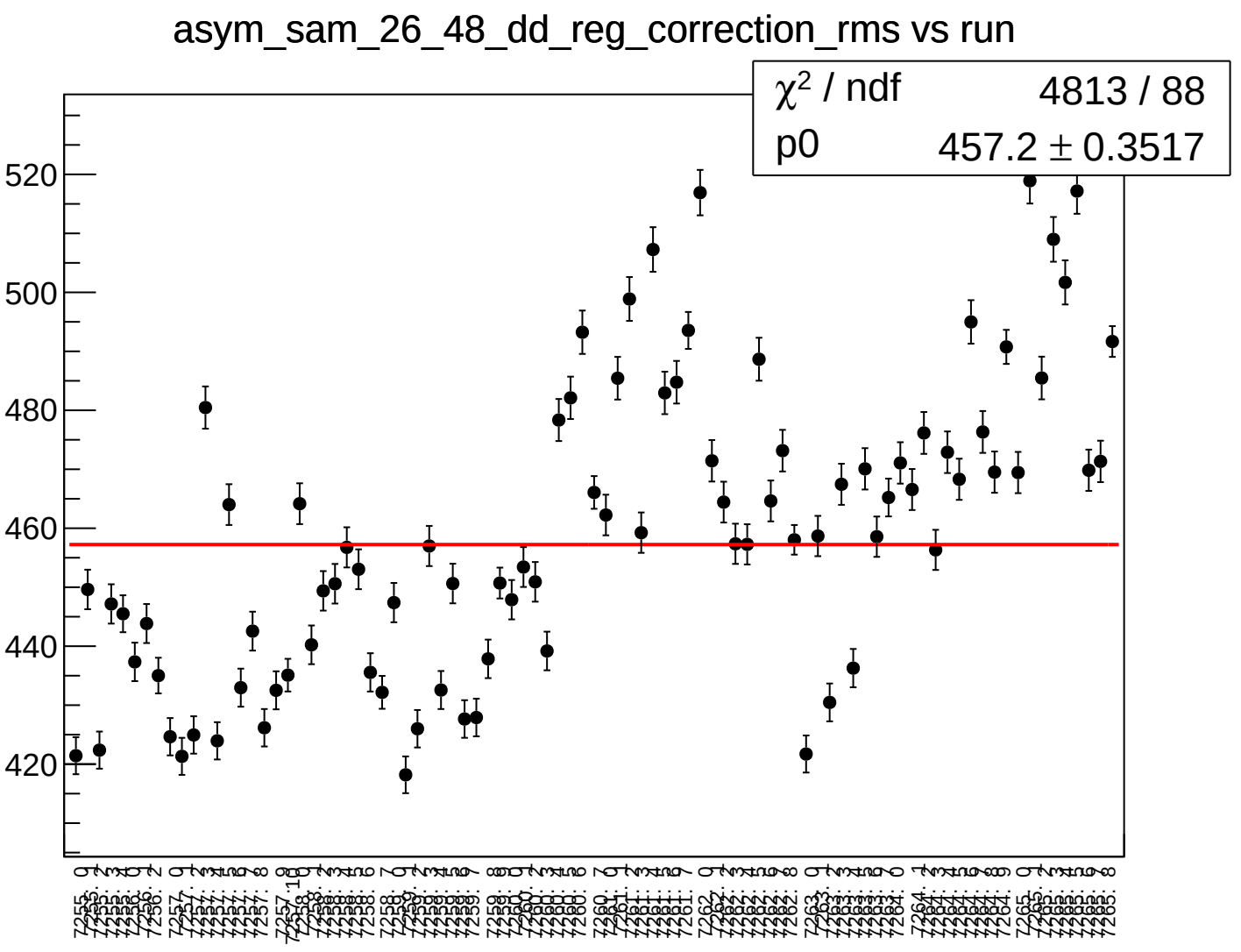

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 72.49 / 88
p0 −110.4 ± 87.37
pull
Entries 89
Mean −264.2
Std Dev 0

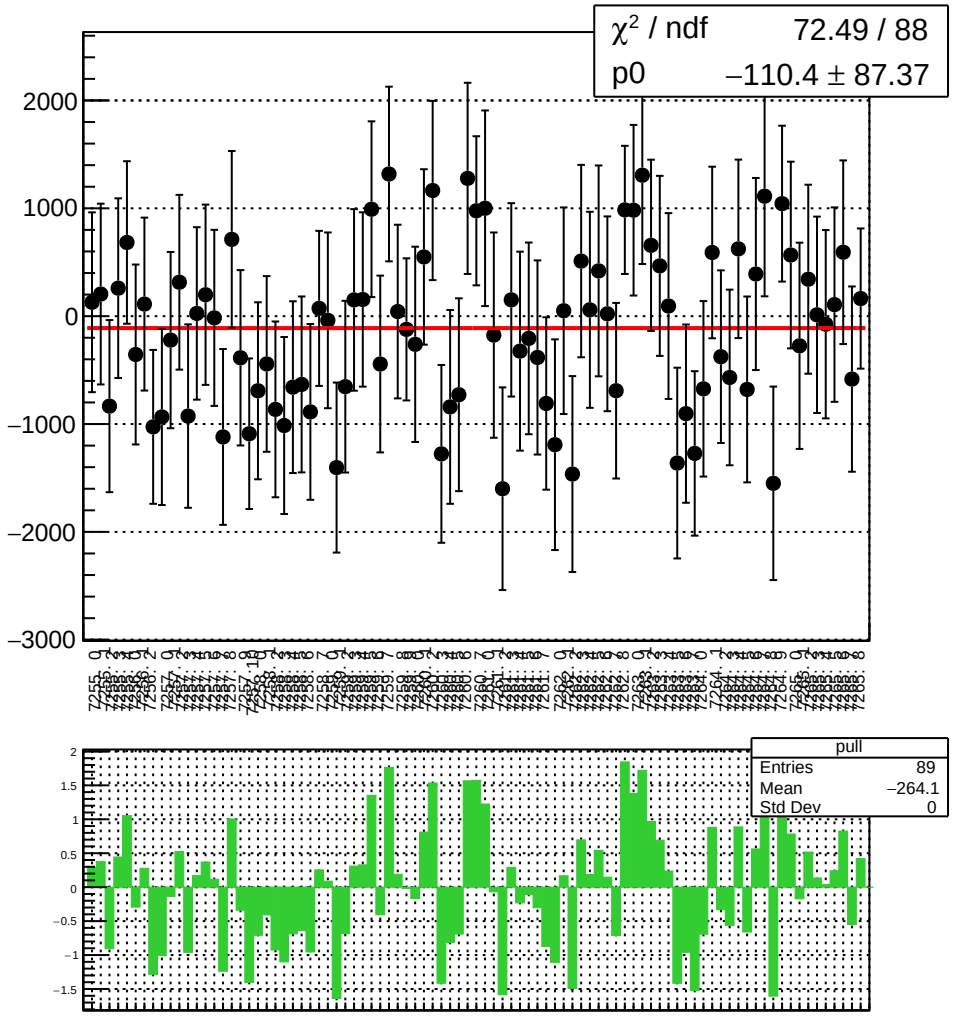

pull1D
Entries 89
Mean −0.01214
Std Dev 0.9024

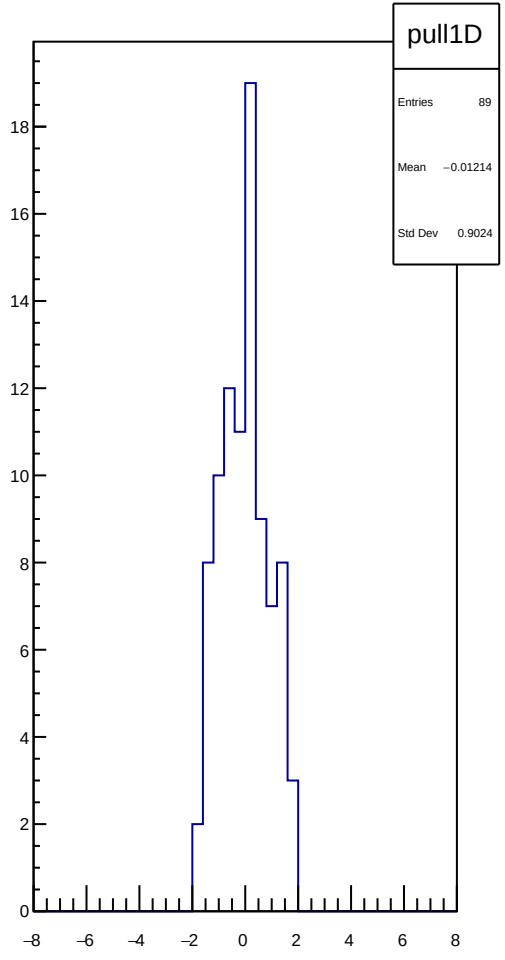

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 5381 / 88
p0 80.3 ± 0.06178
95
90
85
80
75
70

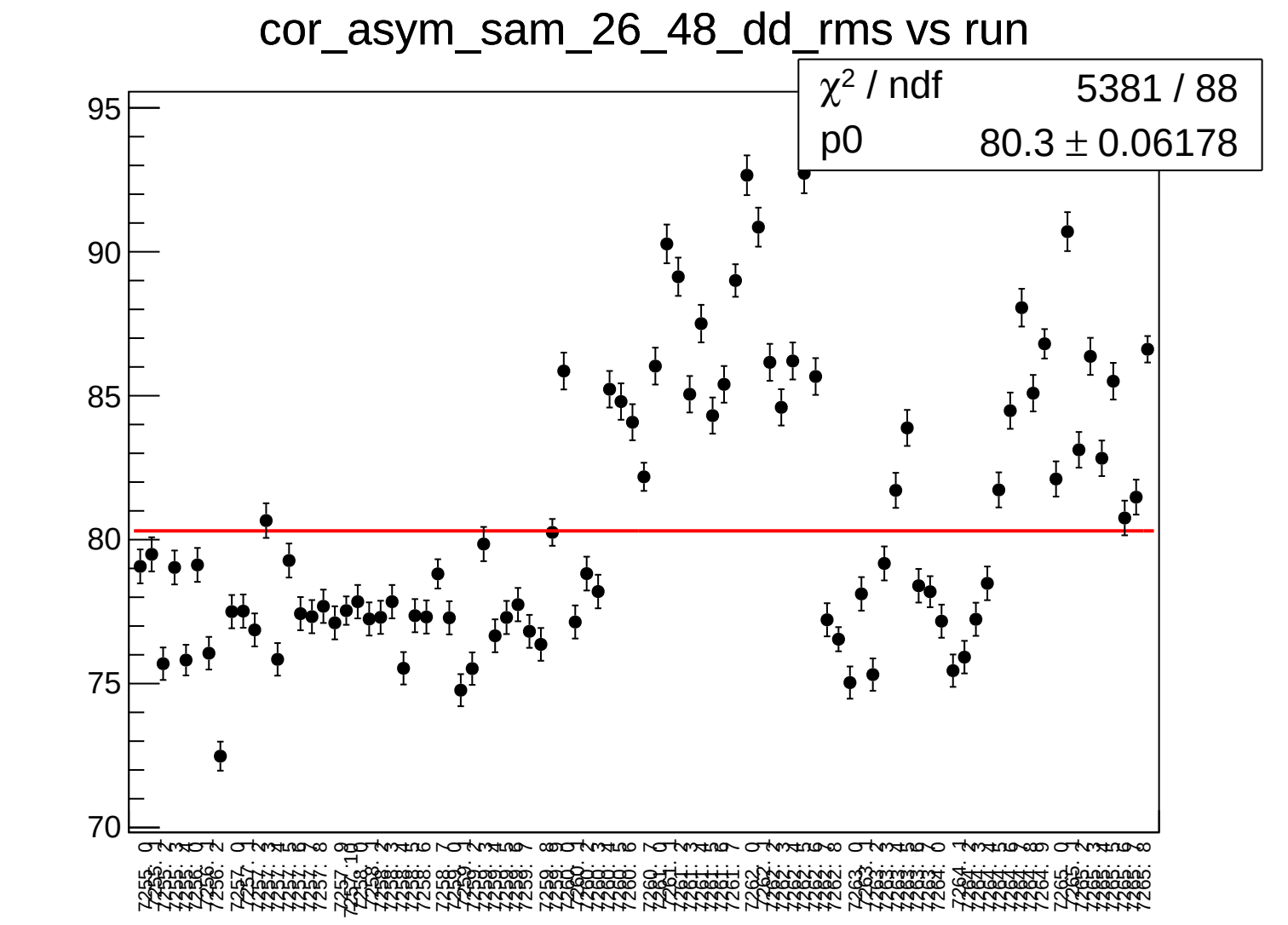

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 105.1 / 88
p0 372.4 ± 497.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 24.26
Std Dev 38.63
2
1
0
−1
−2

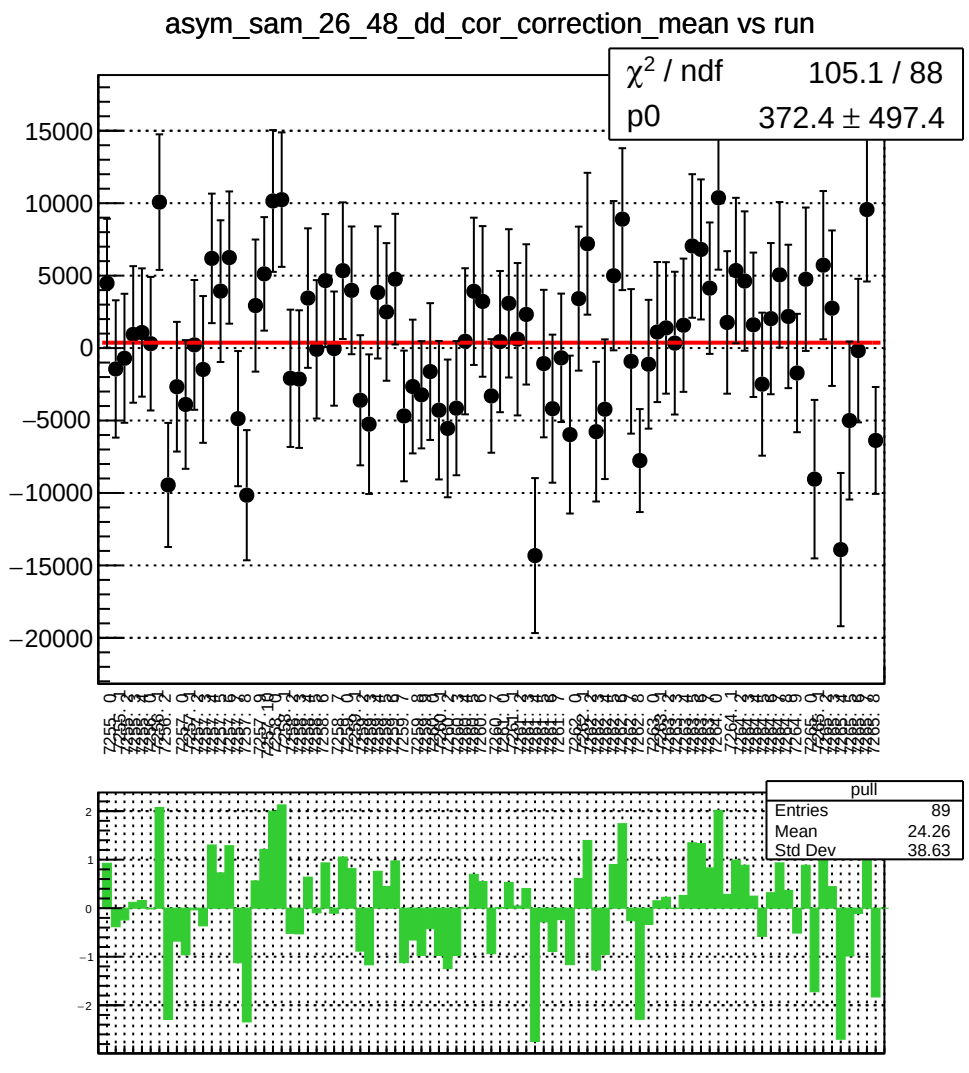

pull1D
Entries 89
Mean 0.01706
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

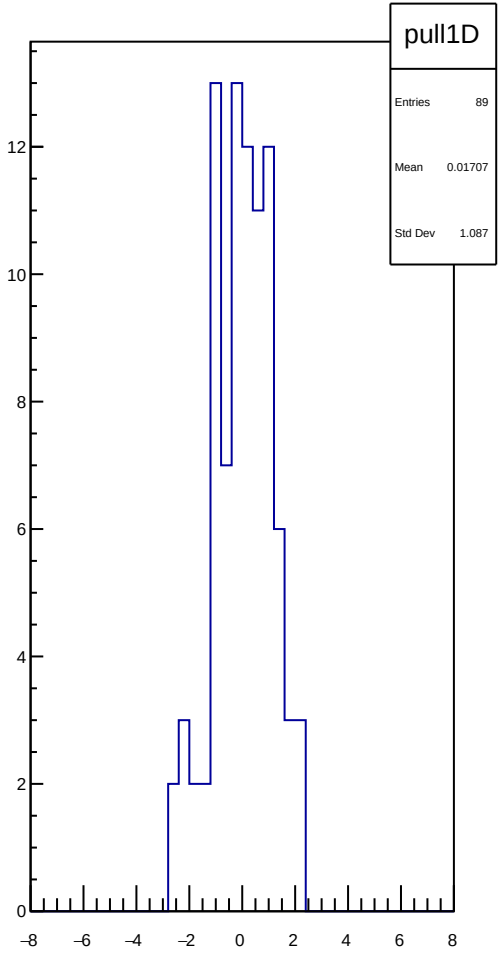

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 4813 / 88
p0 457.2 ± 0.3517
520
500
480
460
440
420

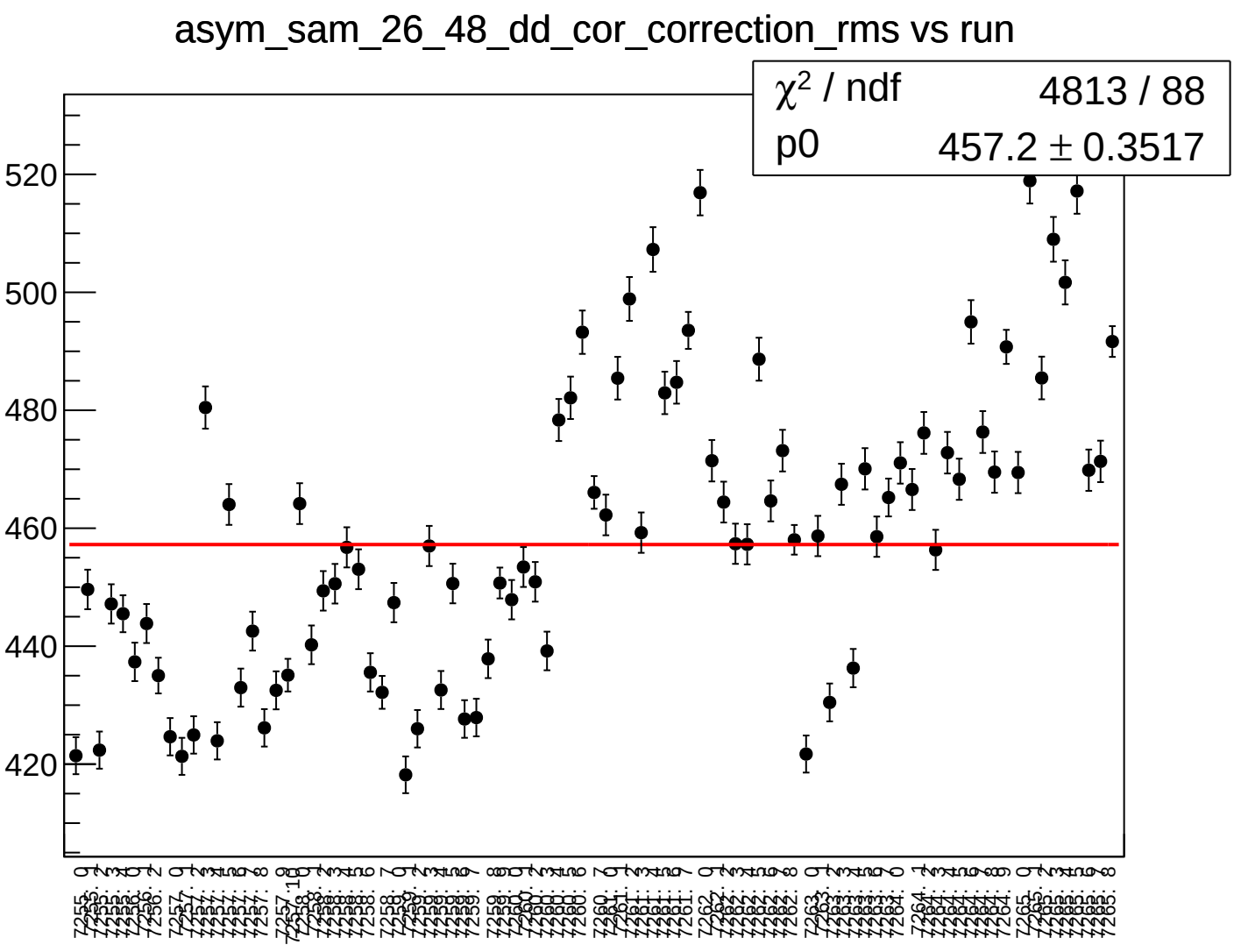

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 72.49 / 88
p0 −110.4 ± 87.37
pull
Entries 89
Mean −264.1
Std Dev 0

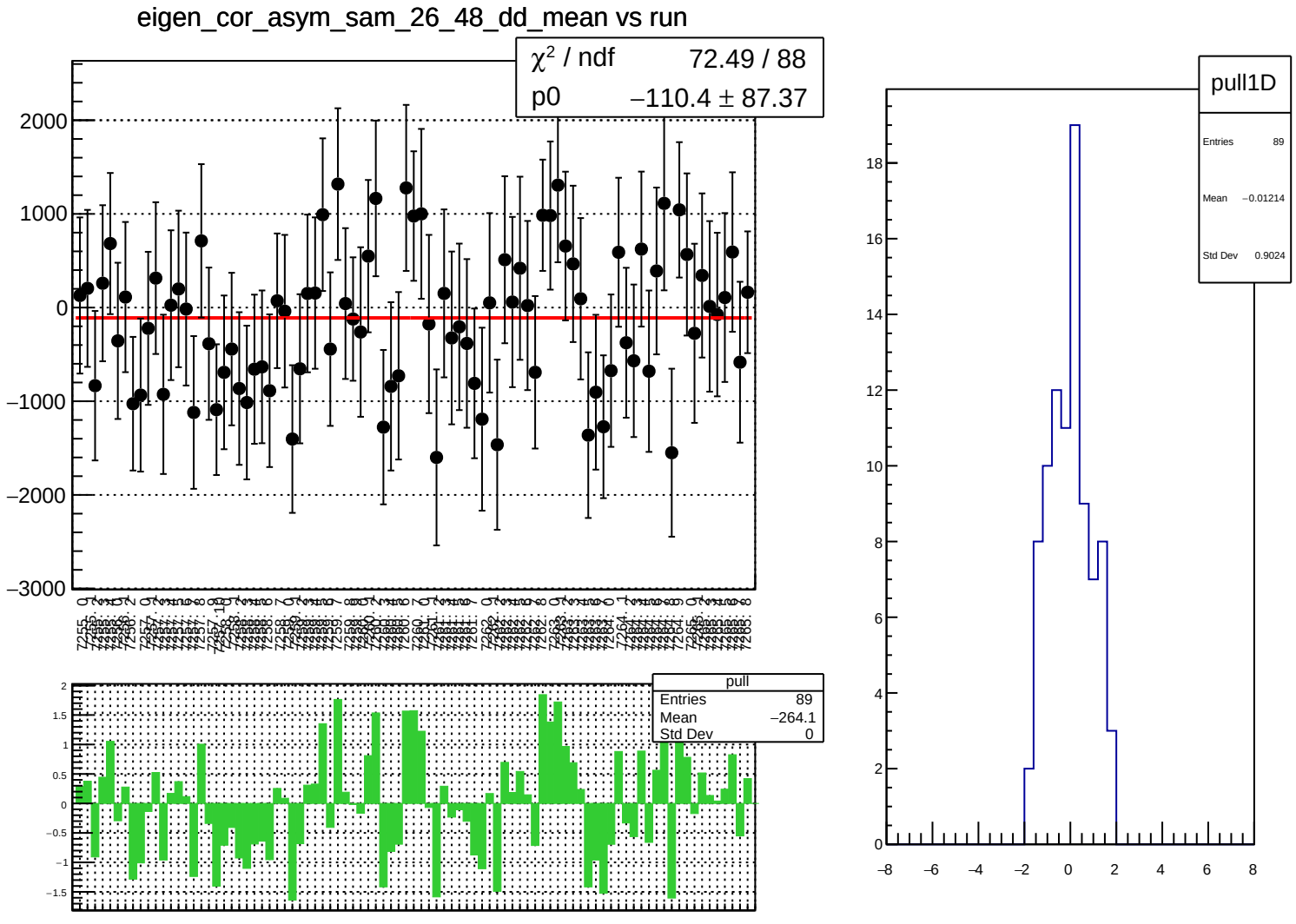

pull1D
Entries 89
Mean −0.01214
Std Dev 0.9024

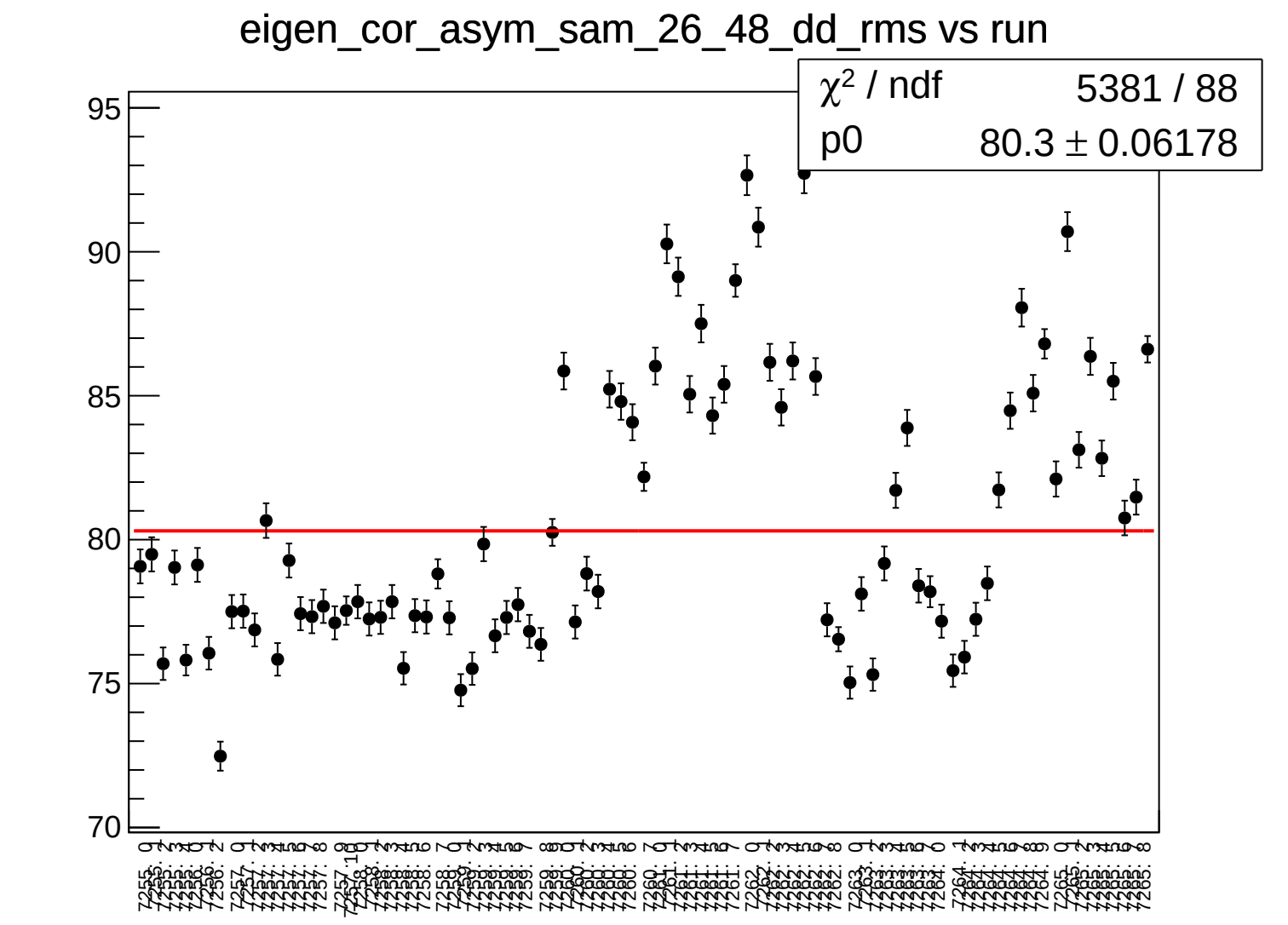

cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 5381 / 88
p0 80.3 ± 0.06178
95
90
85
80
75
70

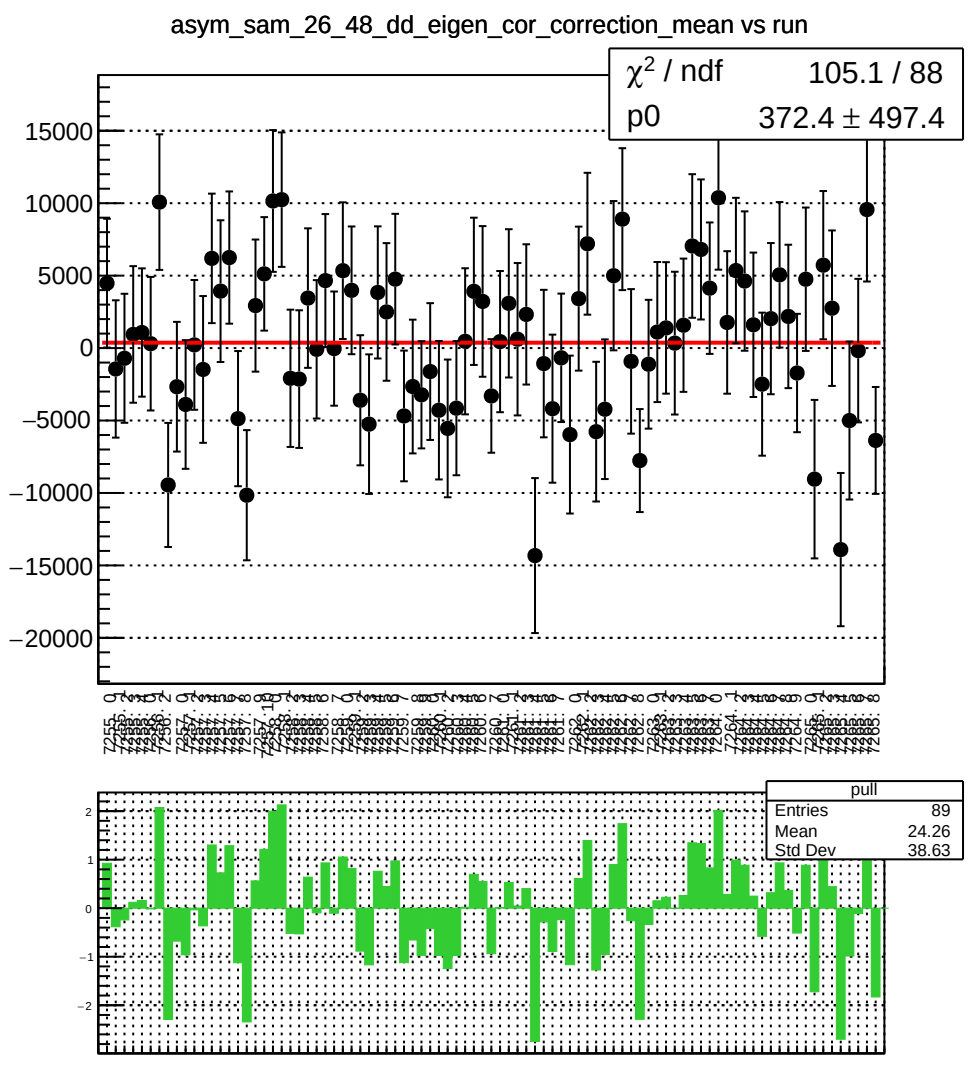

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 105.1 / 88
p0 372.4 ± 497.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 24.26
Std Dev 38.63
2
1
0
−1
−2

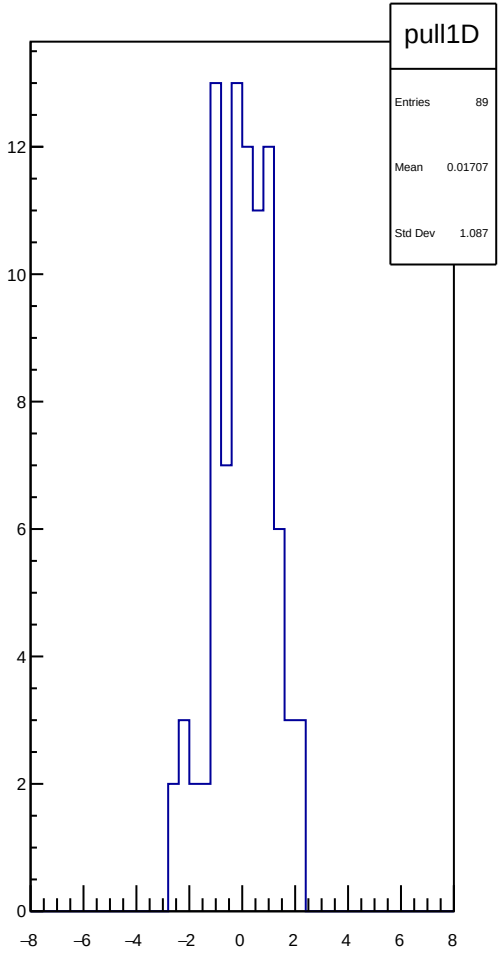

pull1D
Entries 89
Mean 0.01707
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

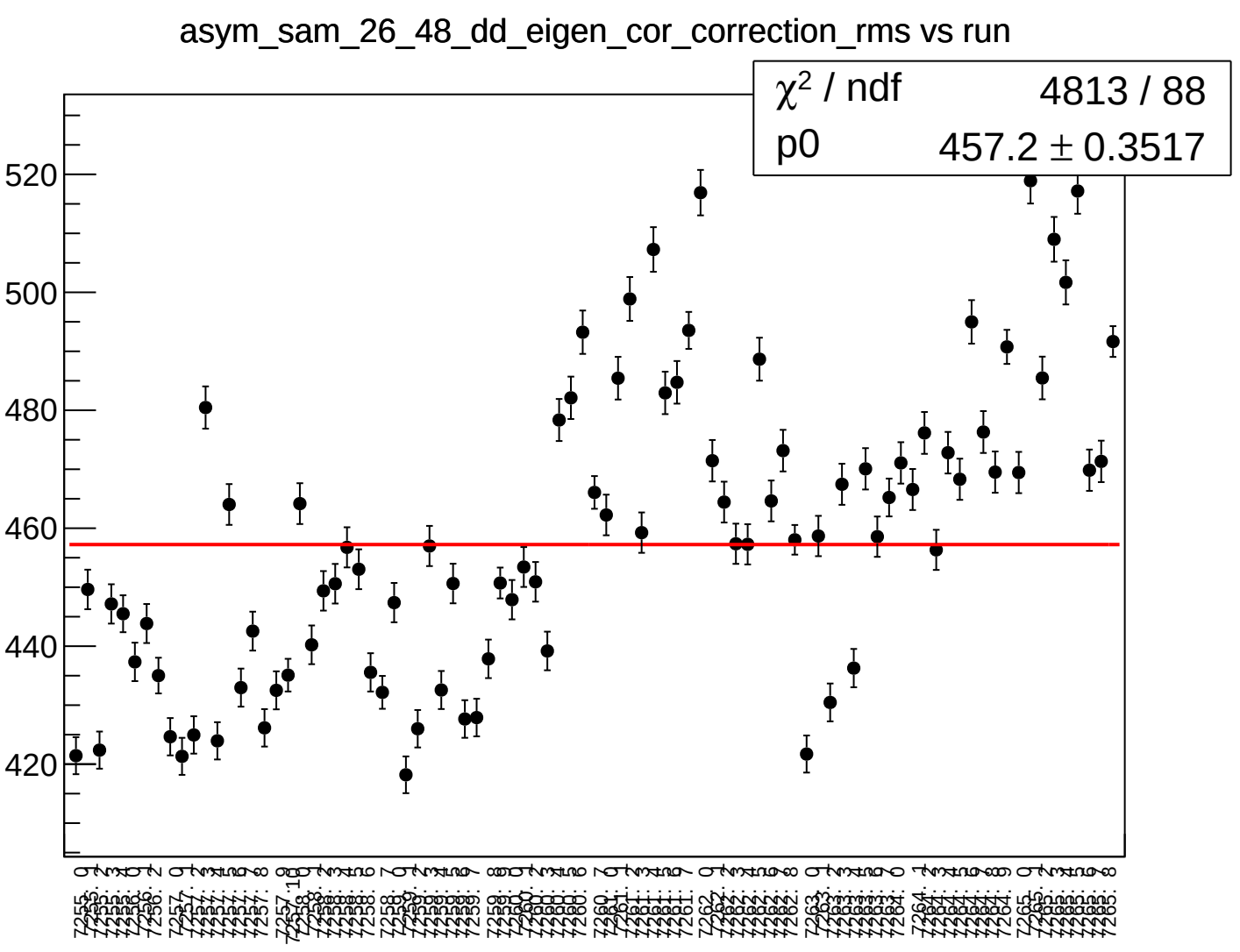

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 4813 / 88
p0 457.2 ± 0.3517
520
500
480
460
440
420

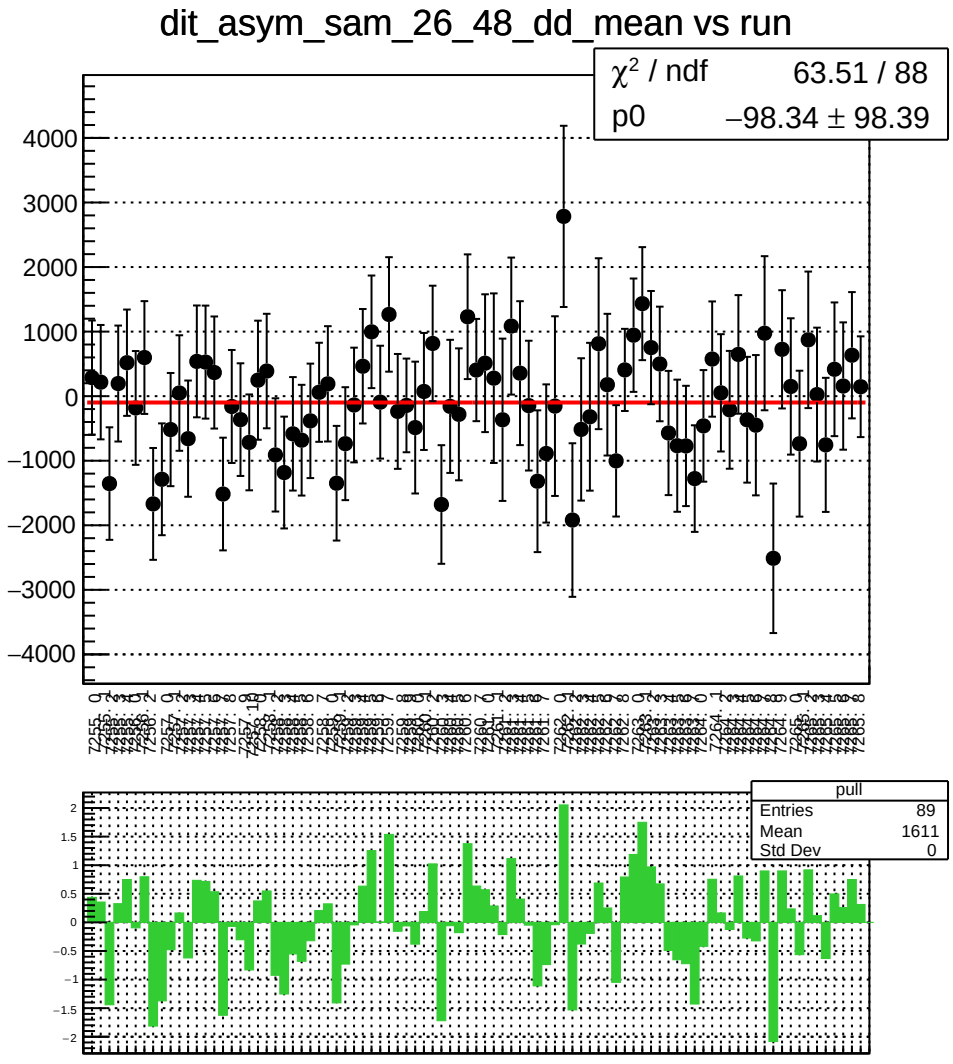

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 72.49 / 88
p0 −110.4 ± 87.37
pull
Entries 89
Mean −264.1
Std Dev 0
pull1D
Entries 89
Mean −0.01214
Std Dev 0.9024

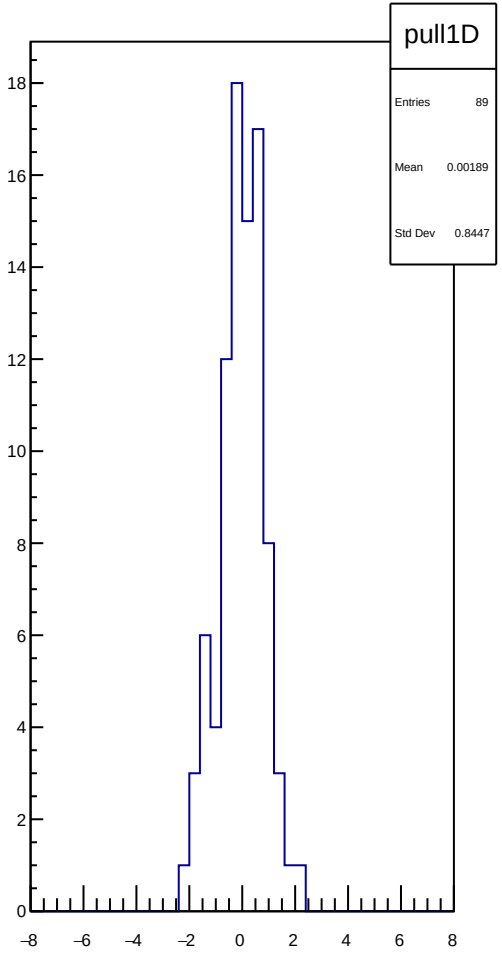

eigen_cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 5381 / 88
p0 80.3 ± 0.06178
95
90
85
80
75
70

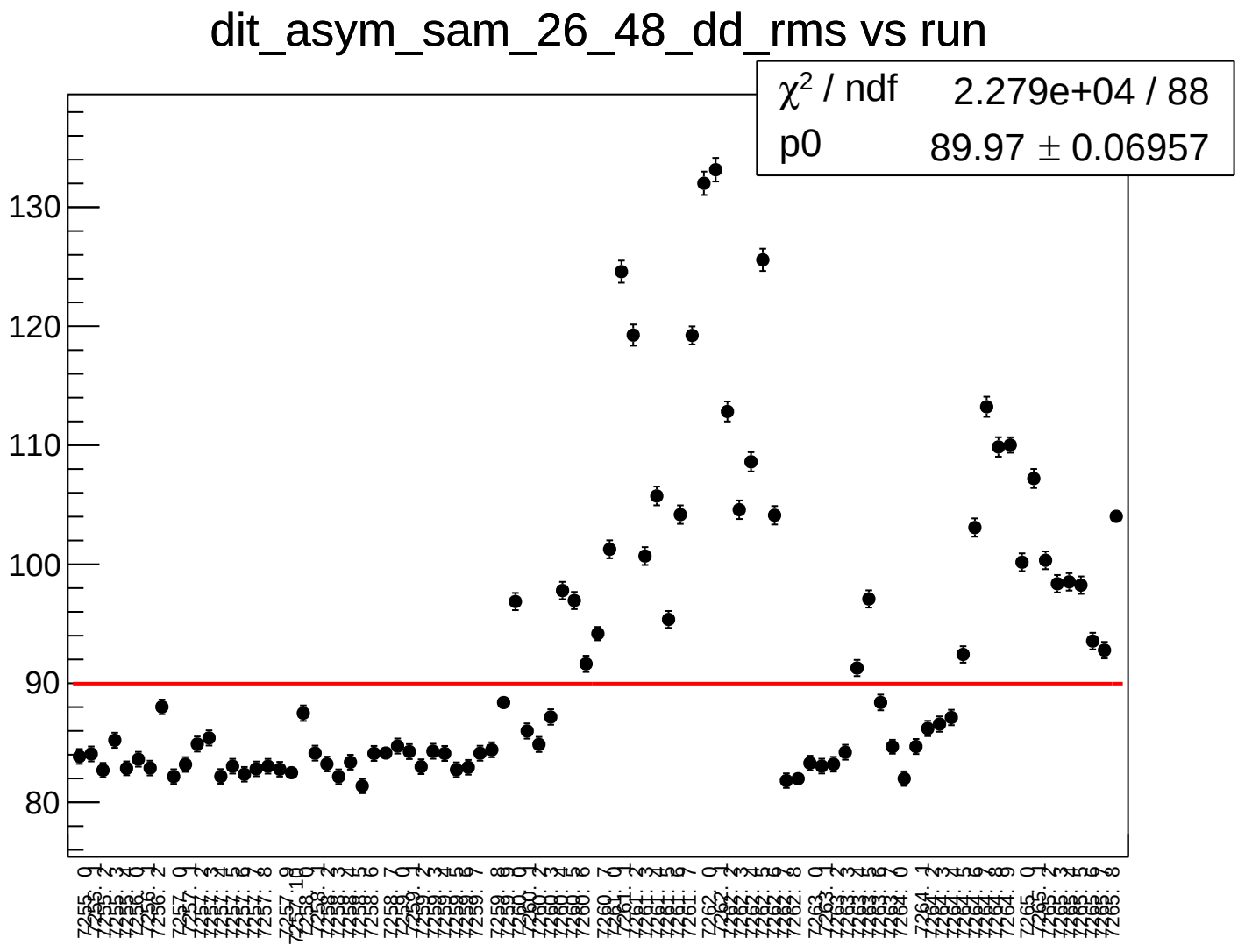

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.1 / 88
p0 372.4 ± 497.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 24.26
Std Dev 38.63
2
1
0
−1
−2

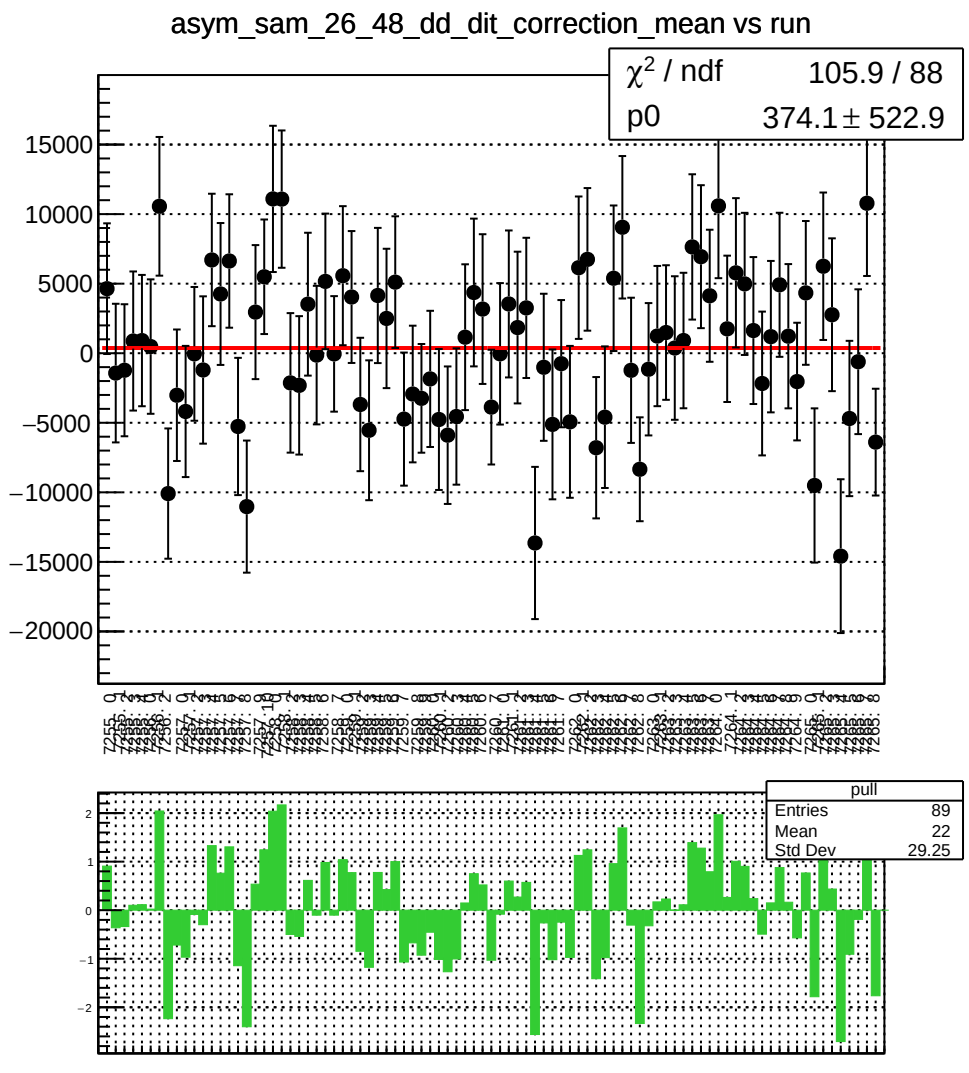

pull1D
Entries 89
Mean 0.01707
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

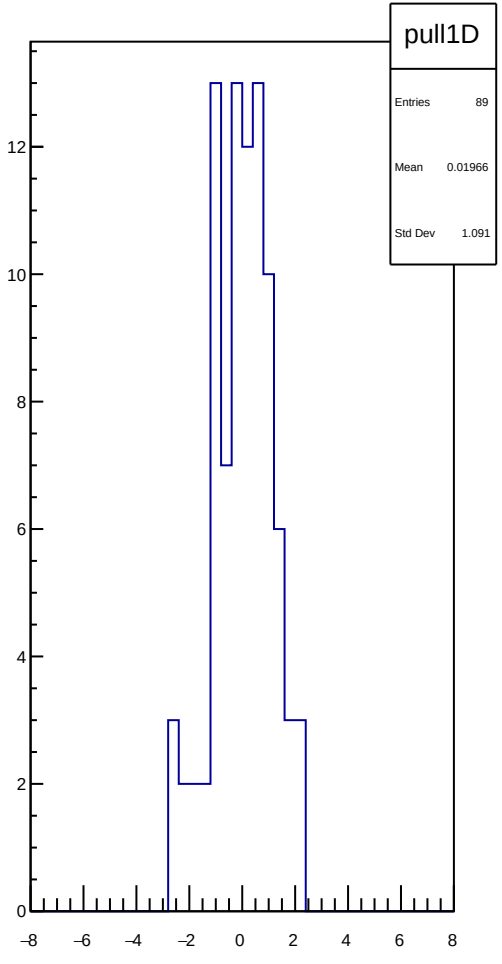

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 4813 / 88
p0 457.2 ± 0.3517
520
500
480
460
440
420

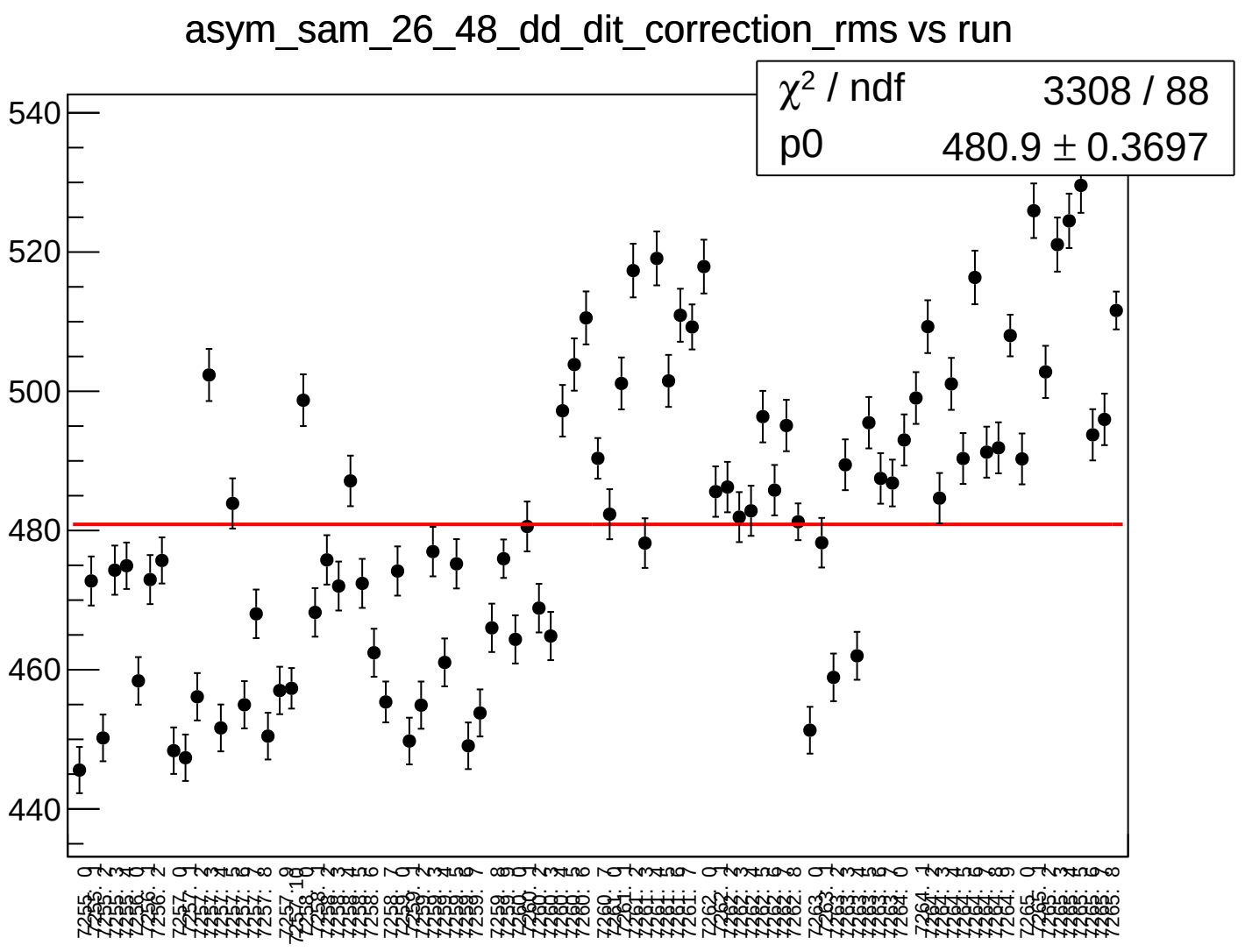

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 63.51 / 88
p0 −98.34 ± 98.39
pull
Entries 89
Mean 1611
Std Dev 0

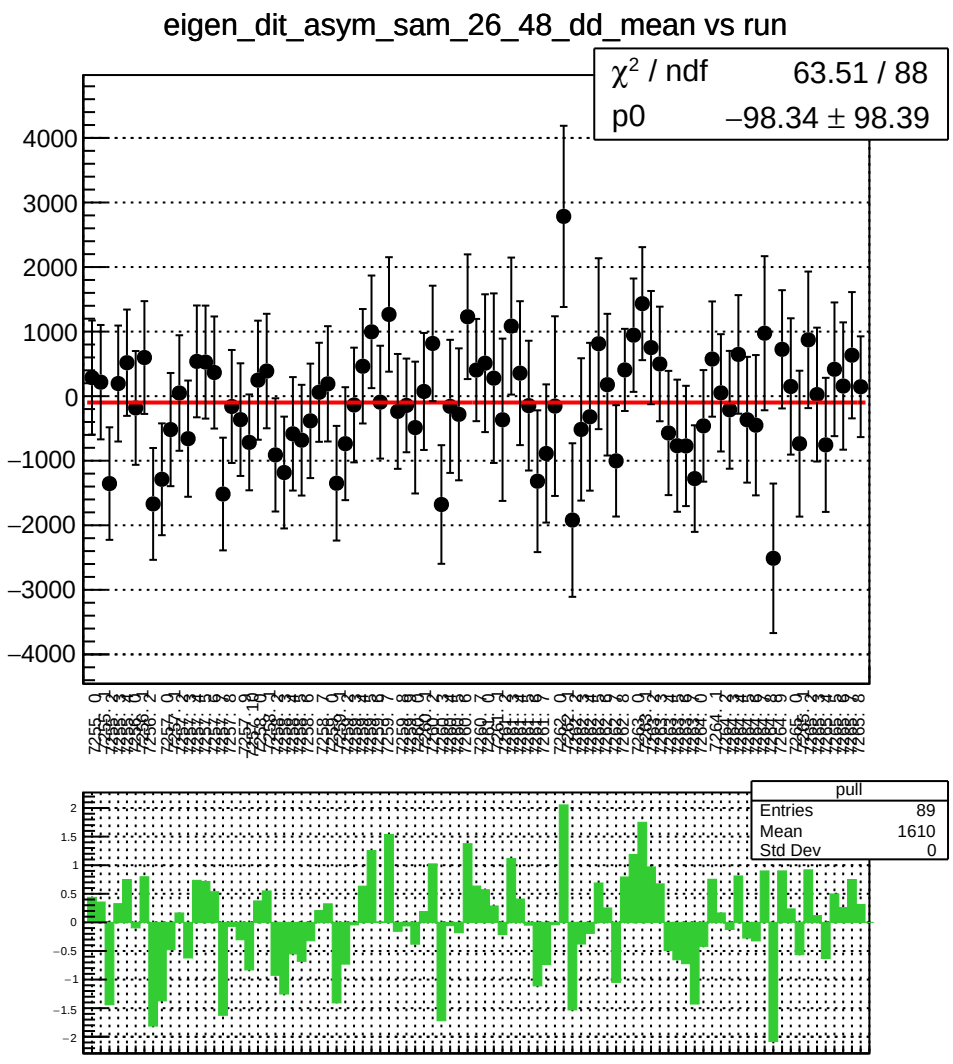

pull1D
Entries 89
Mean 0.00189
Std Dev 0.8447

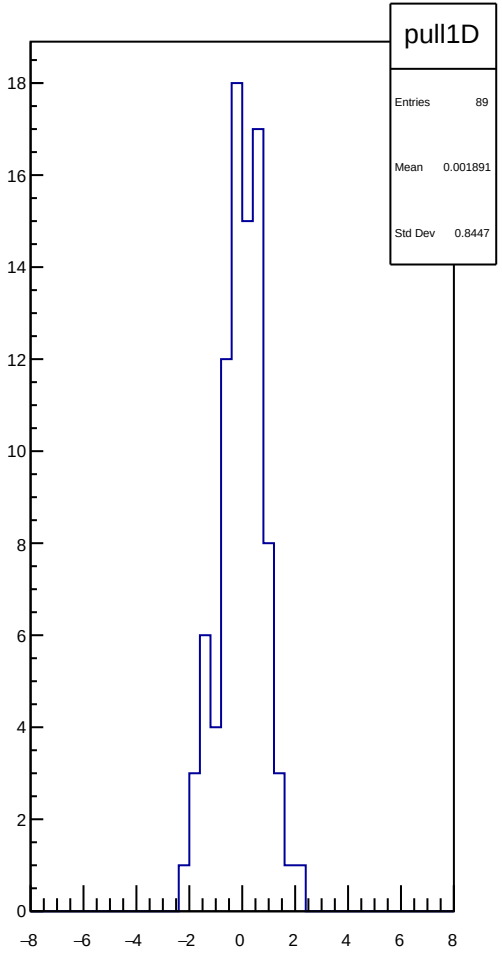

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.279e+04 / 88
p0 89.97 ± 0.06957
130
120
110
100
90
80

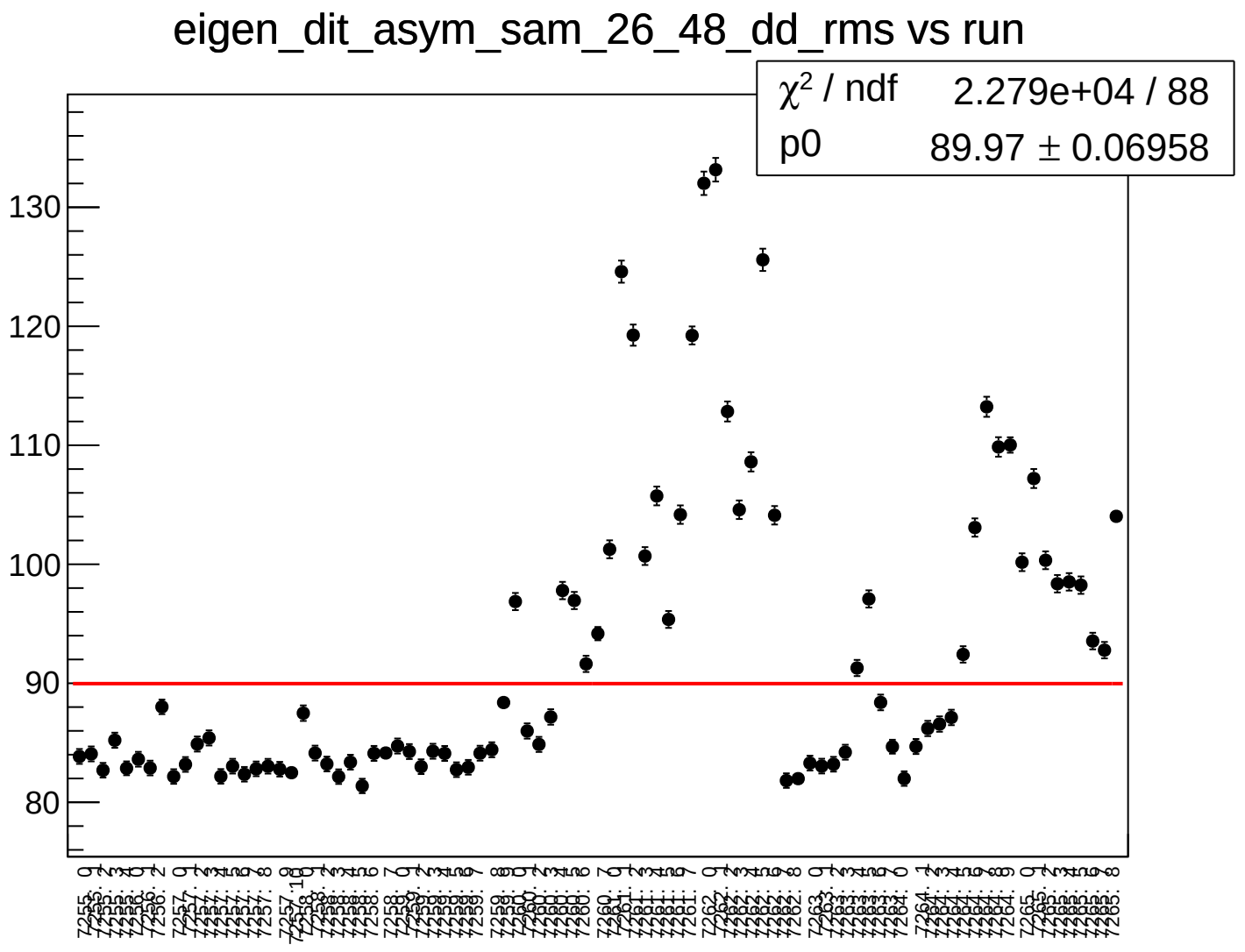

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 105.9 / 88
p0 374.1 ± 522.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 22
Std Dev 29.25
2
1
0
−1
−2

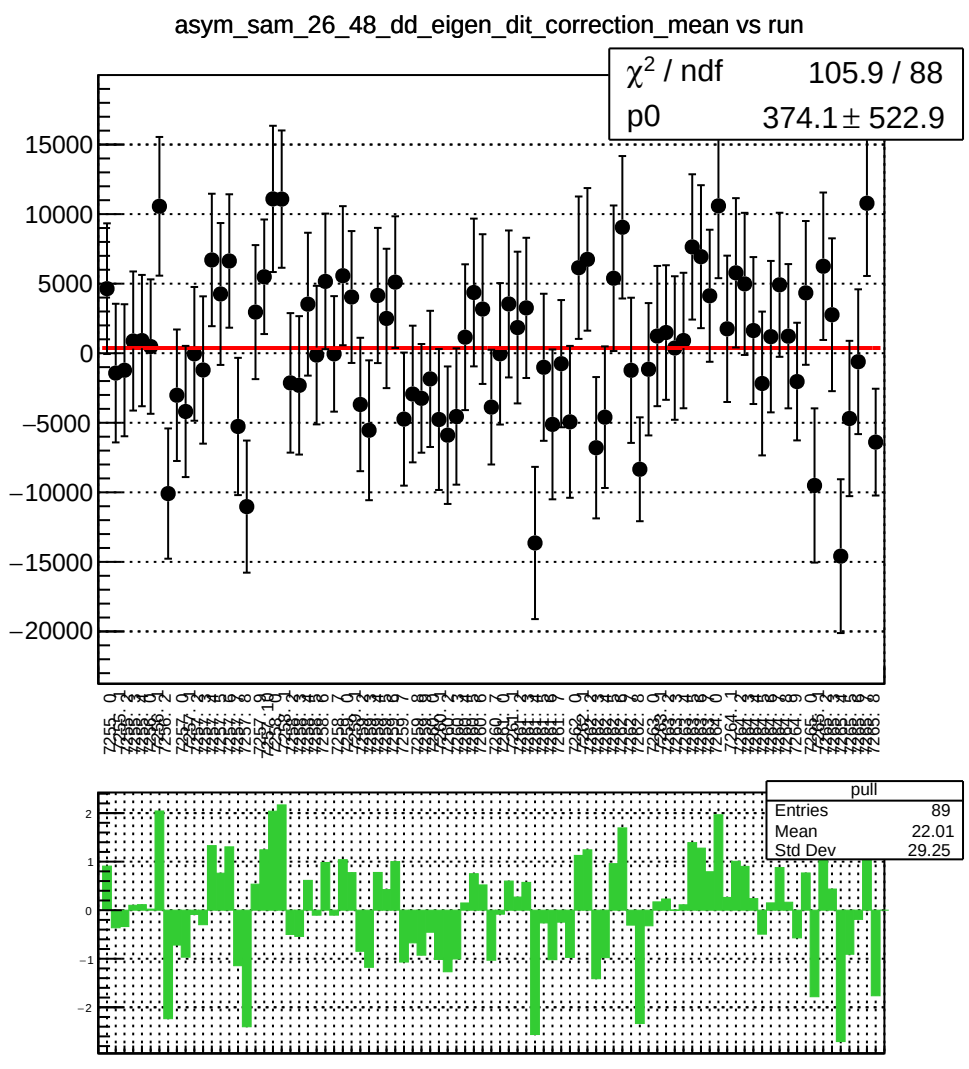

pull1D
Entries 89
Mean 0.01966
Std Dev 1.091
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

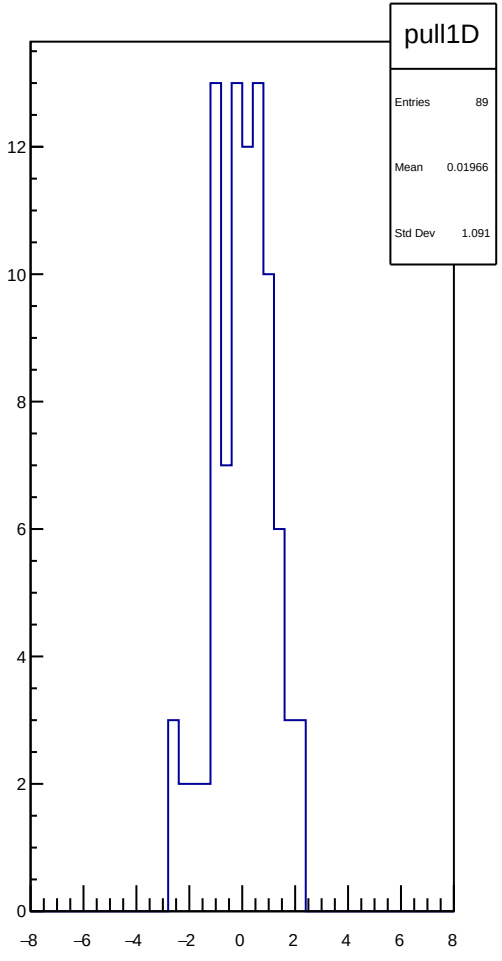

asym_sam_26_48_dd_dit_correction_rms vs run
χ^2 / ndf 3308 / 88
p0 480.9 ± 0.3697
540
520
500
480
460
440

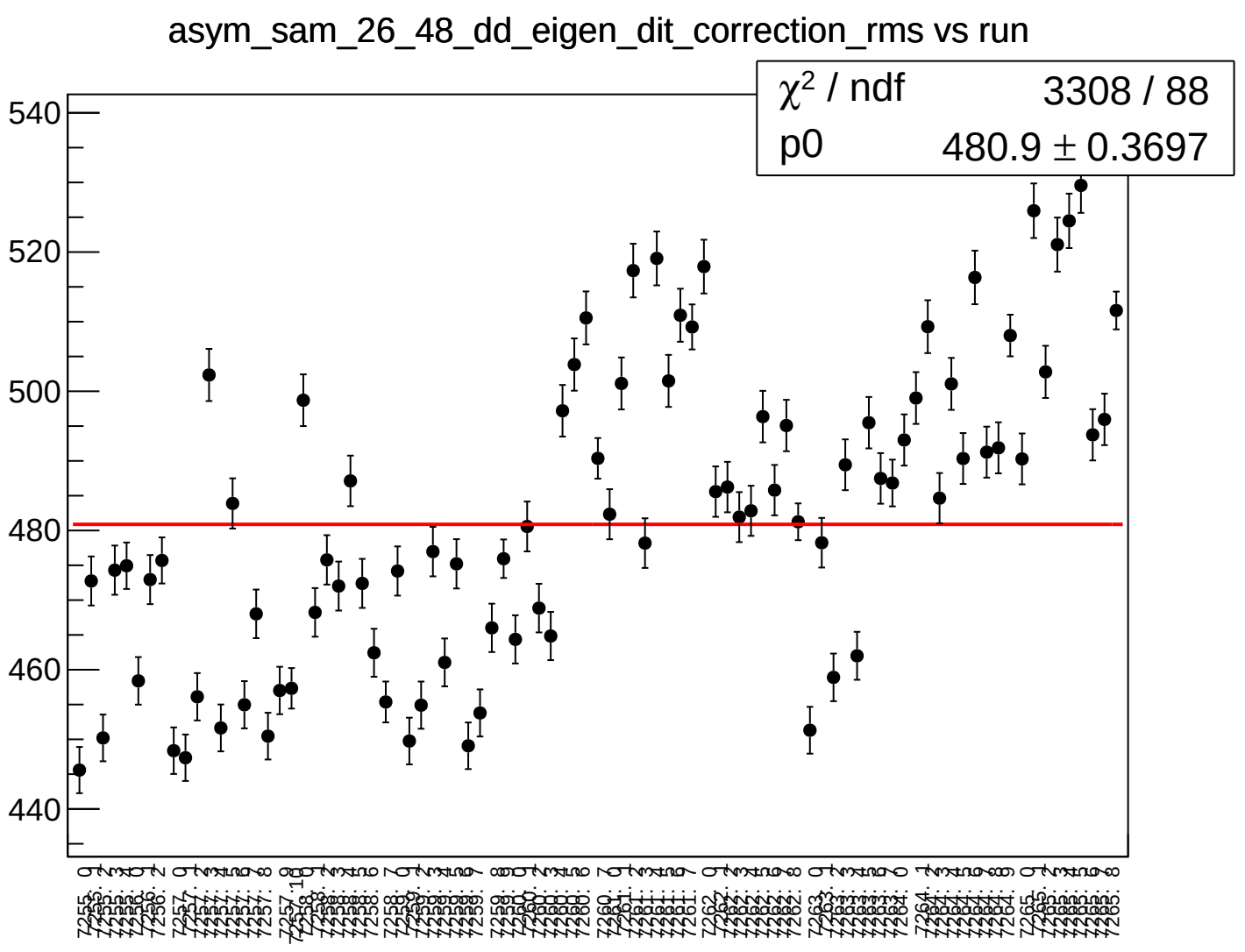

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 63.51 / 88
p0 −98.34 ± 98.39
pull
Entries 89
Mean 1610
Std Dev 0

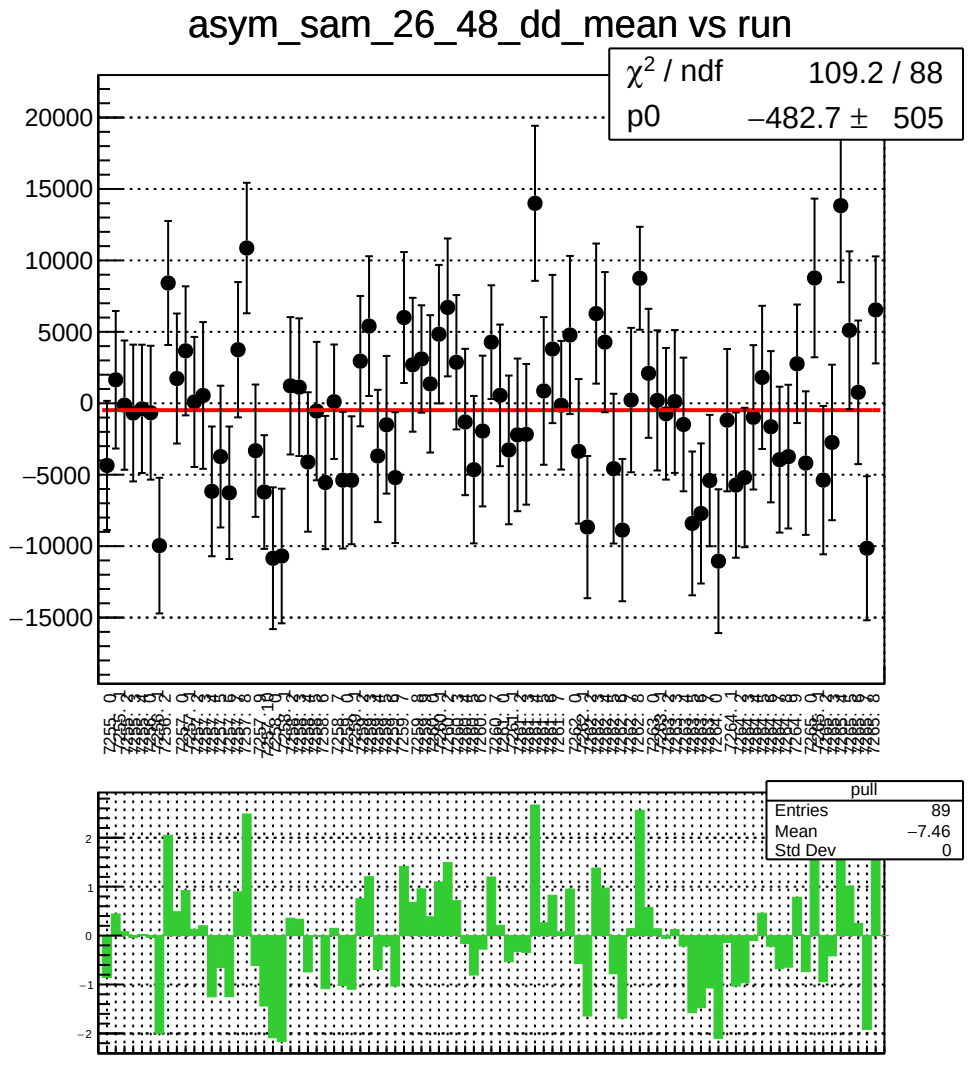

pull1D
Entries 89
Mean 0.001891
Std Dev 0.8447

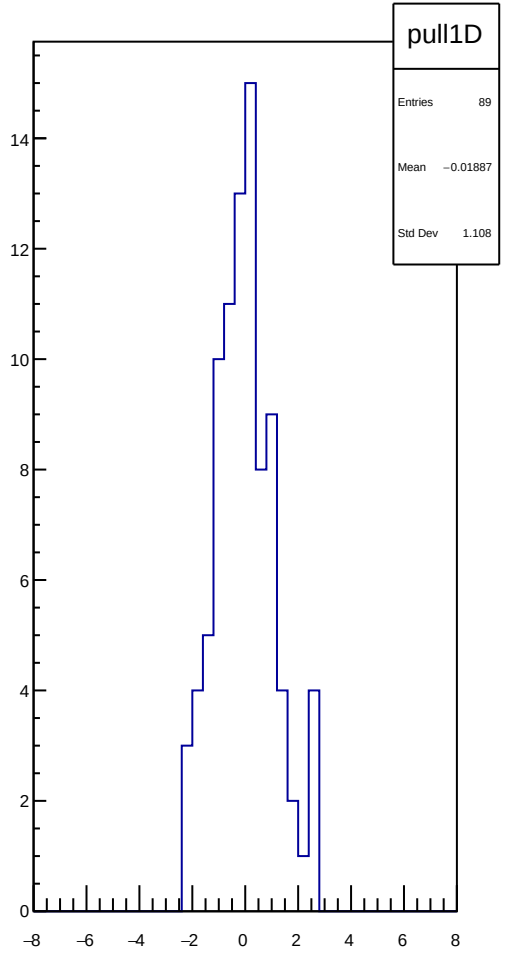

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.279e+04 / 88
p0 89.97 ± 0.06958
130
120
110
100
90
80

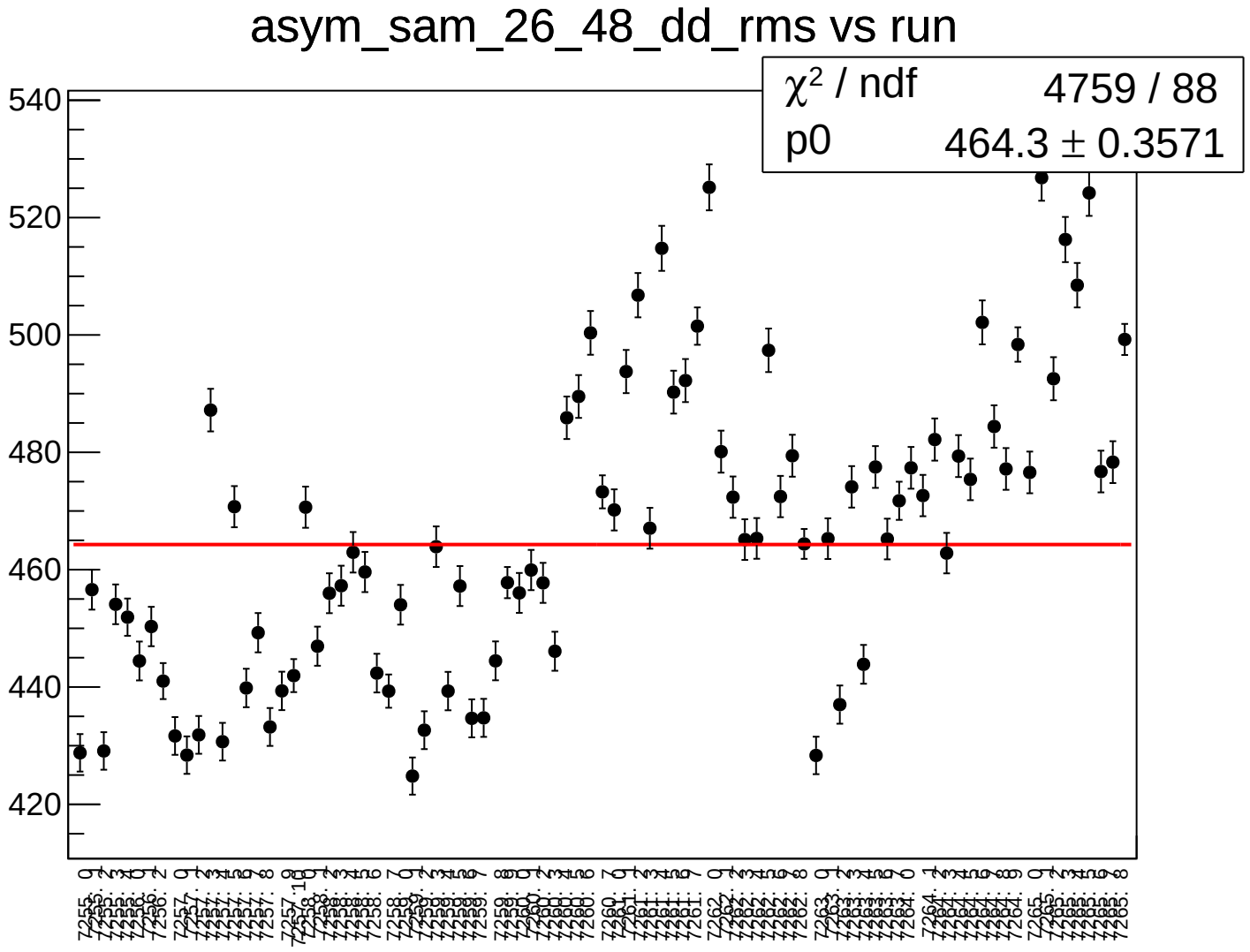

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 105.9 / 88
p0 374.1 ± 522.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 22.01
Std Dev 29.25
2
1
0
−1
−2

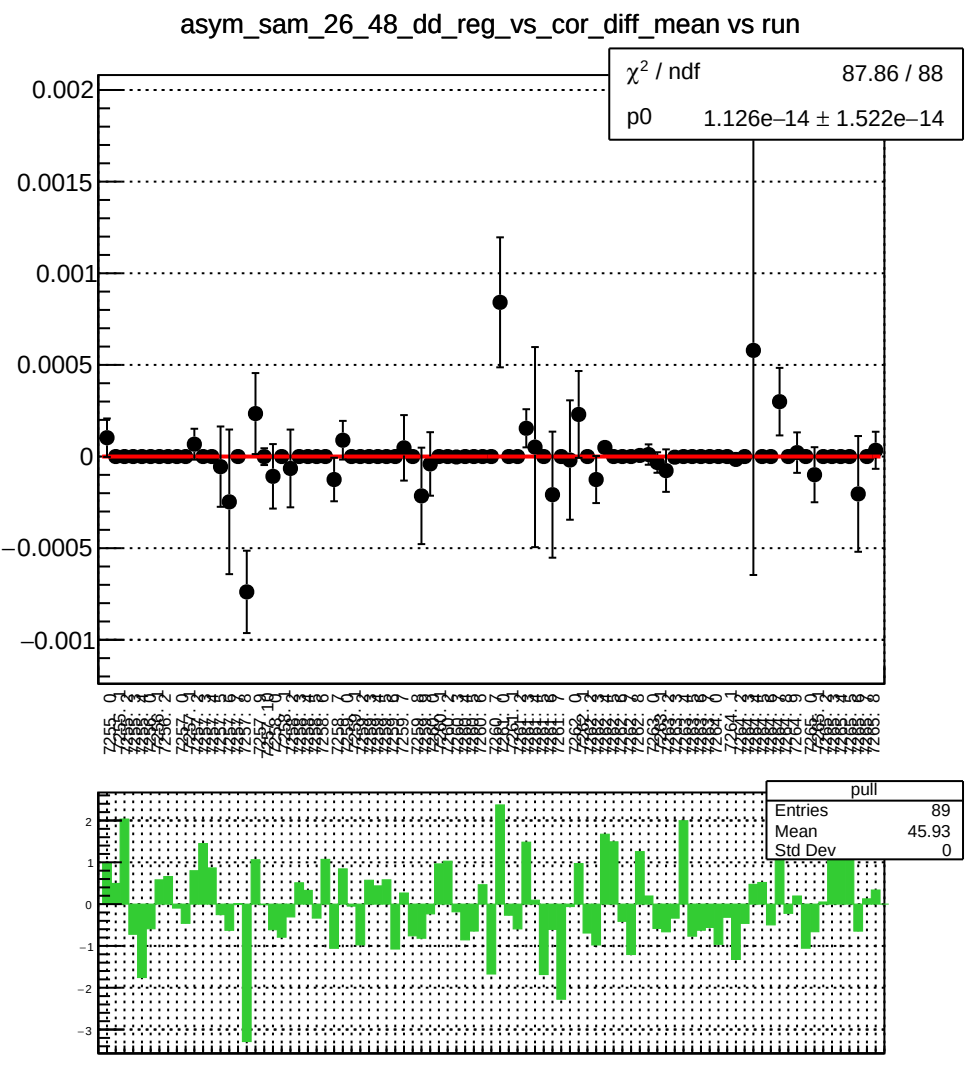

pull1D
Entries 89
Mean 0.01966
Std Dev 1.091
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

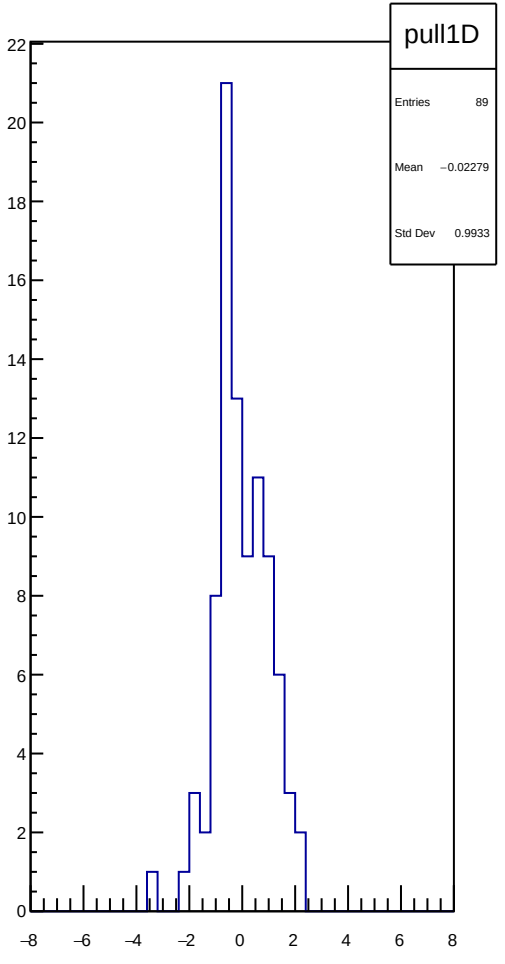

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3308 / 88
p0 480.9 ± 0.3697
540
520
500
480
460
440

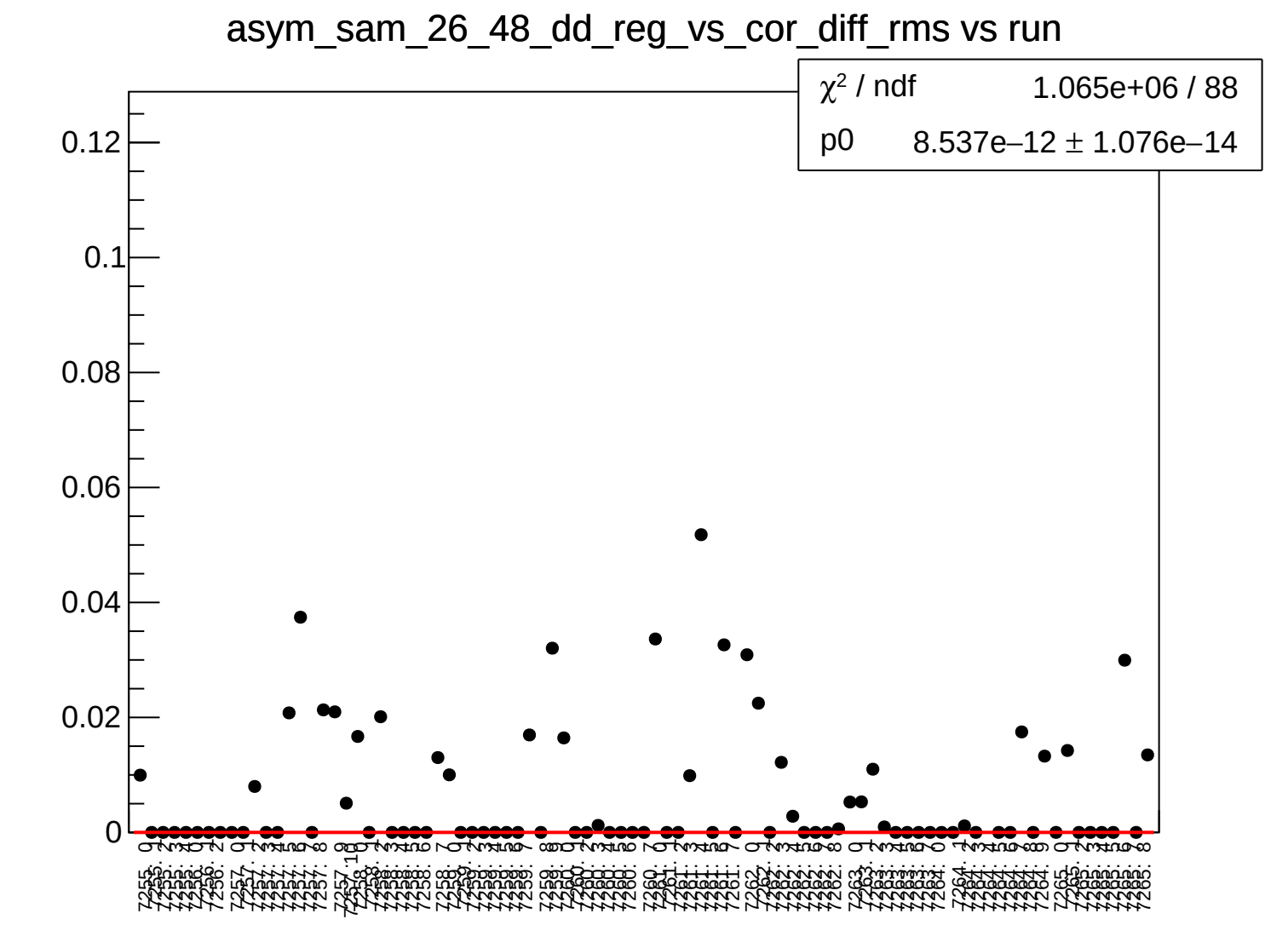

asym_sam_26_48_dd_mean vs run
χ² / ndf 109.2 / 88
p0 −482.7 ± 505
pull
Entries 89
Mean −7.46
Std Dev 0

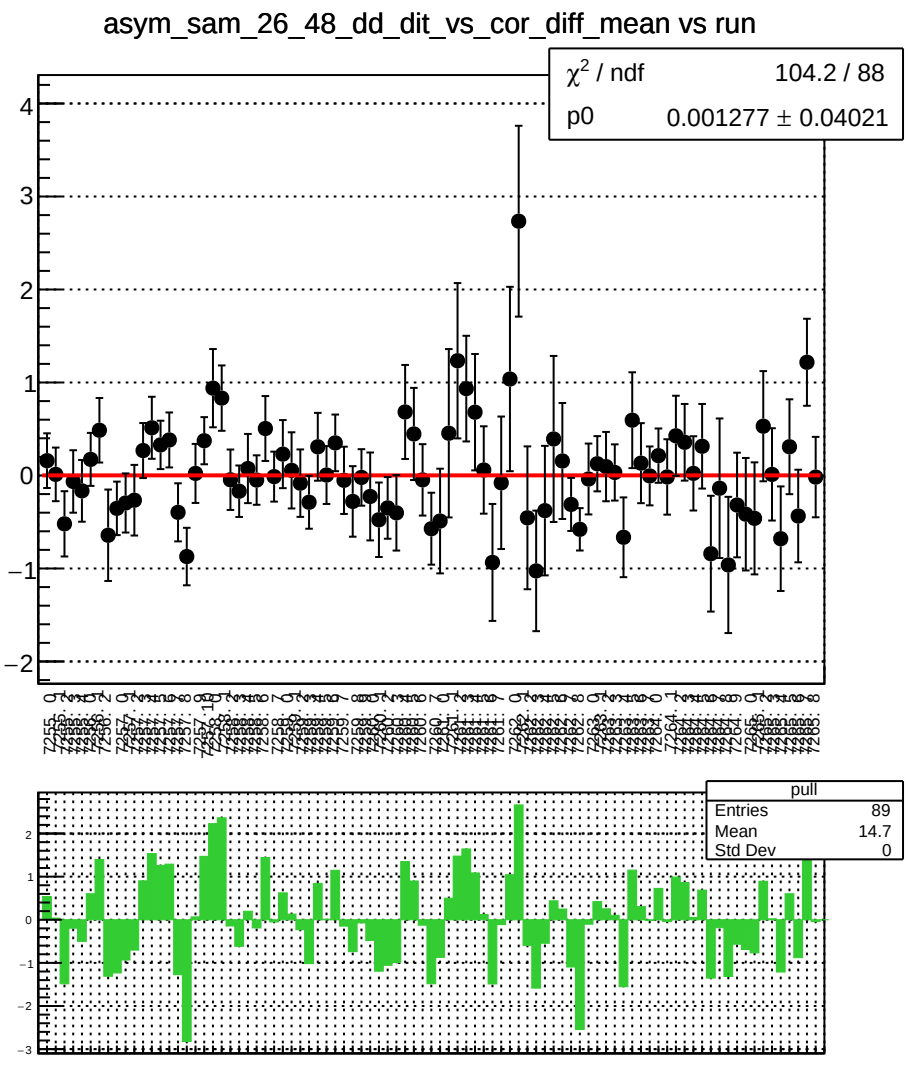

pull1D
Entries 89
Mean −0.01887
Std Dev 1.108

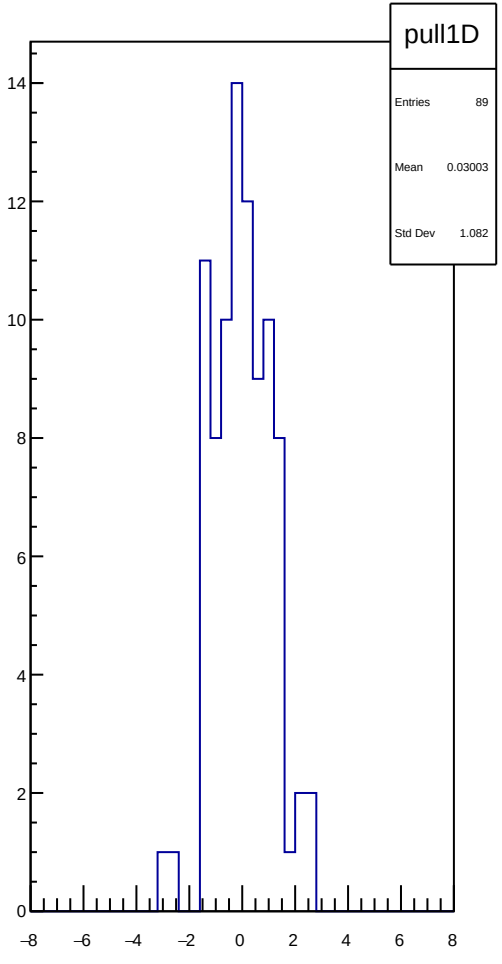

asym_sam_26_48_dd_rms vs run
χ² / ndf 4759 / 88
p0 464.3 ± 0.3571
540
520
500
480
460
440
420

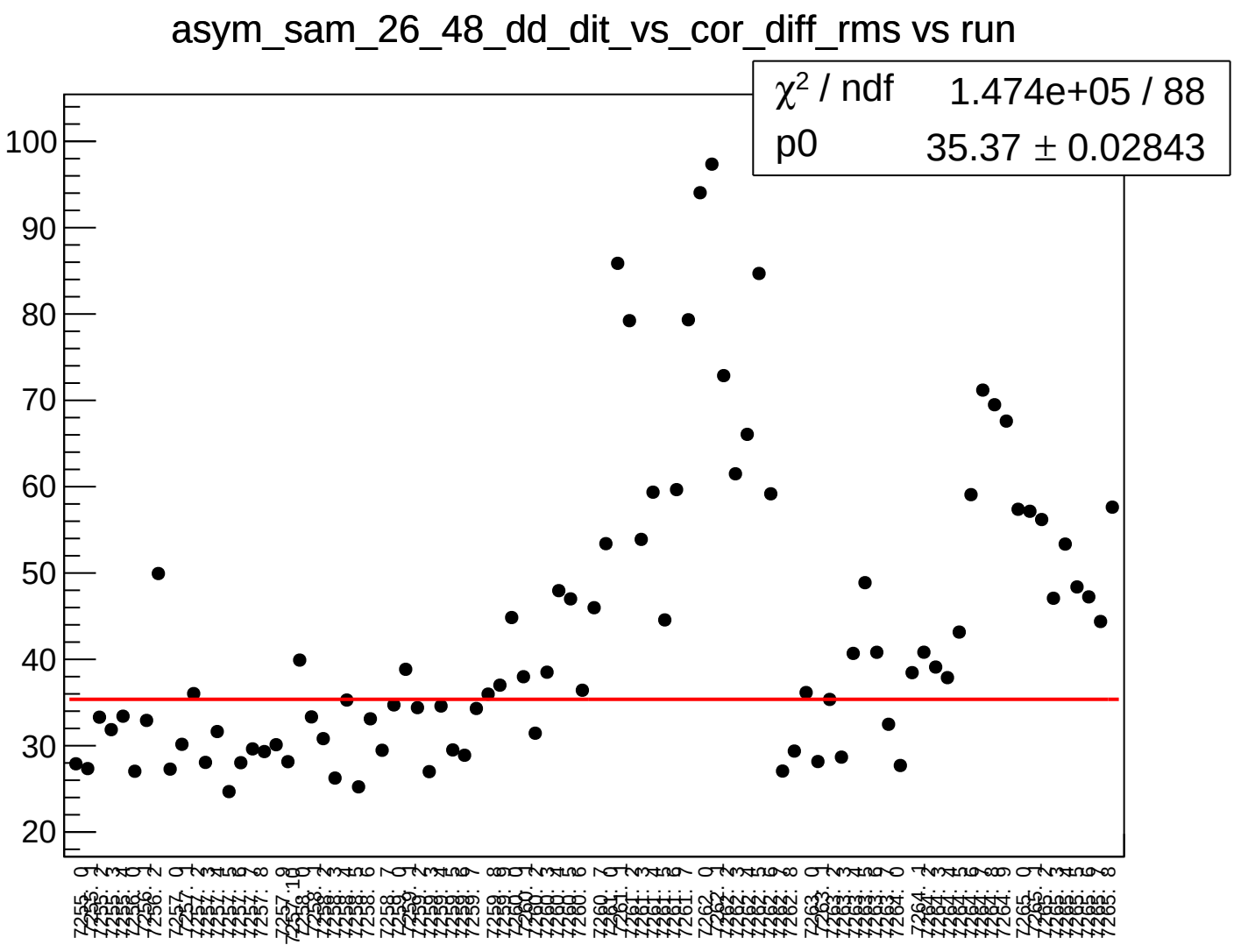

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.86 / 88
p0 1.126e−14 ± 1.522e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 45.93
Std Dev 0
2
1
0
−1
−2
−3

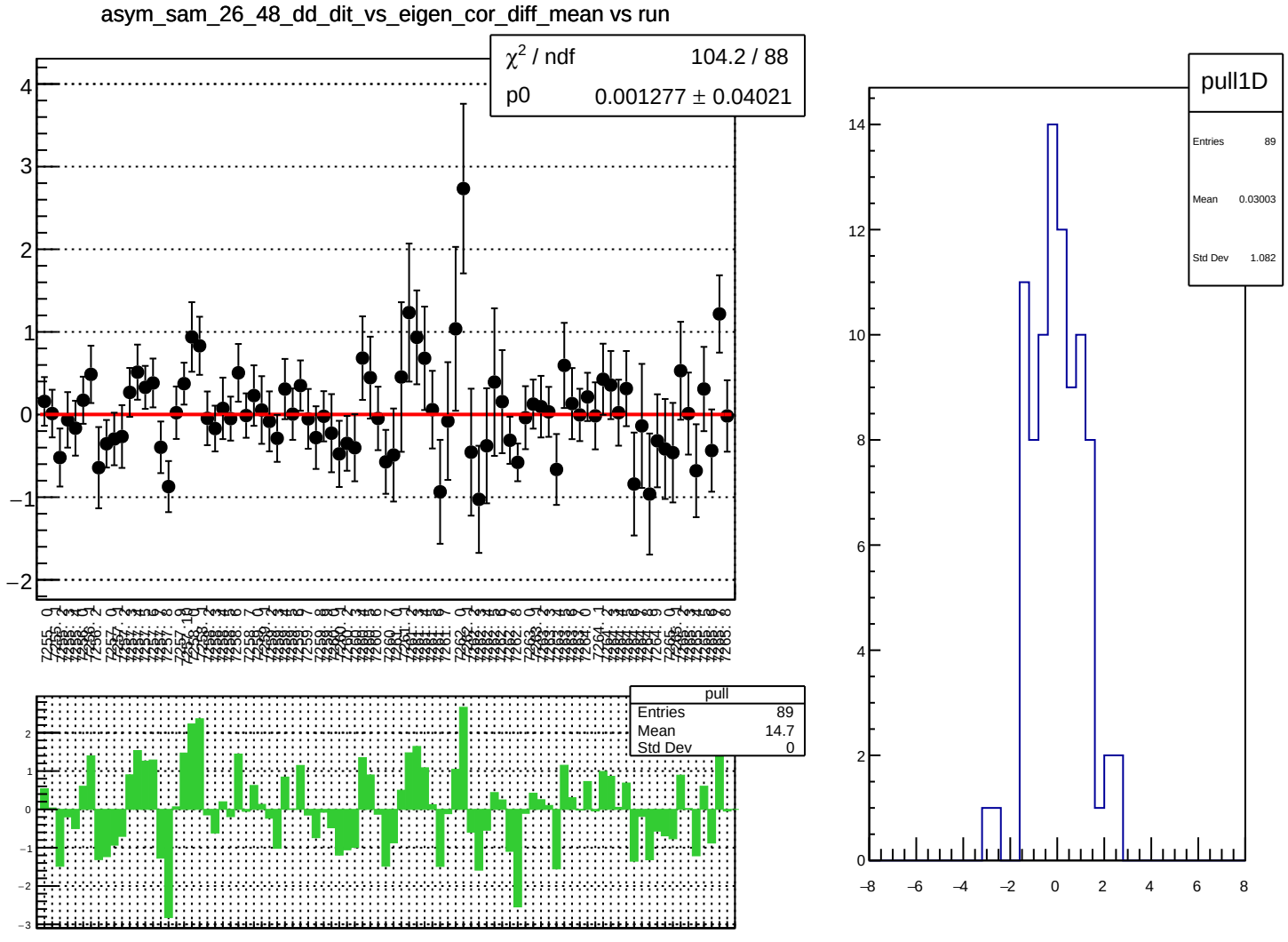

pull1D
Entries 89
Mean −0.02279
Std Dev 0.9933
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

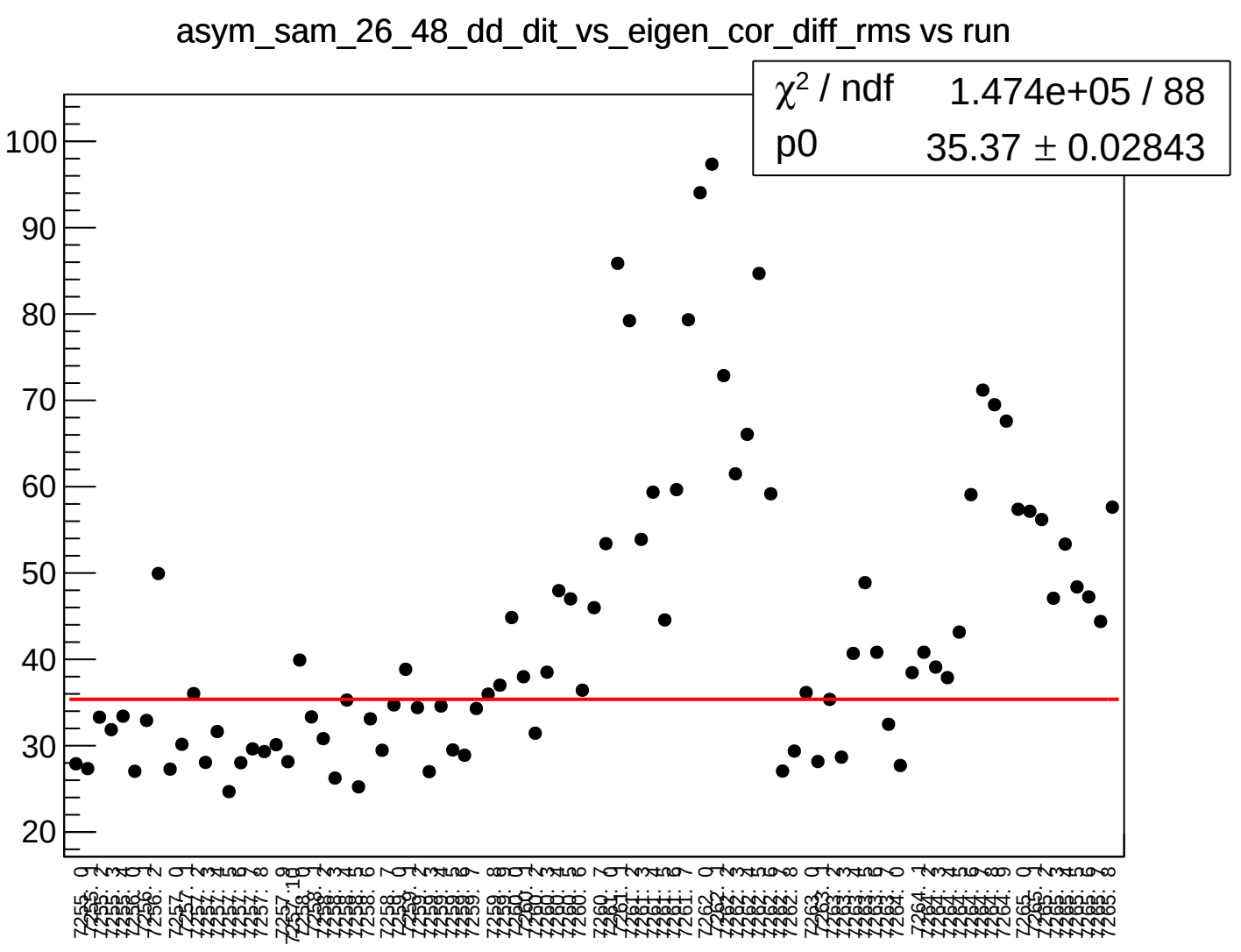

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.065e+06 / 88
p0 8.537e−12 ± 1.076e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

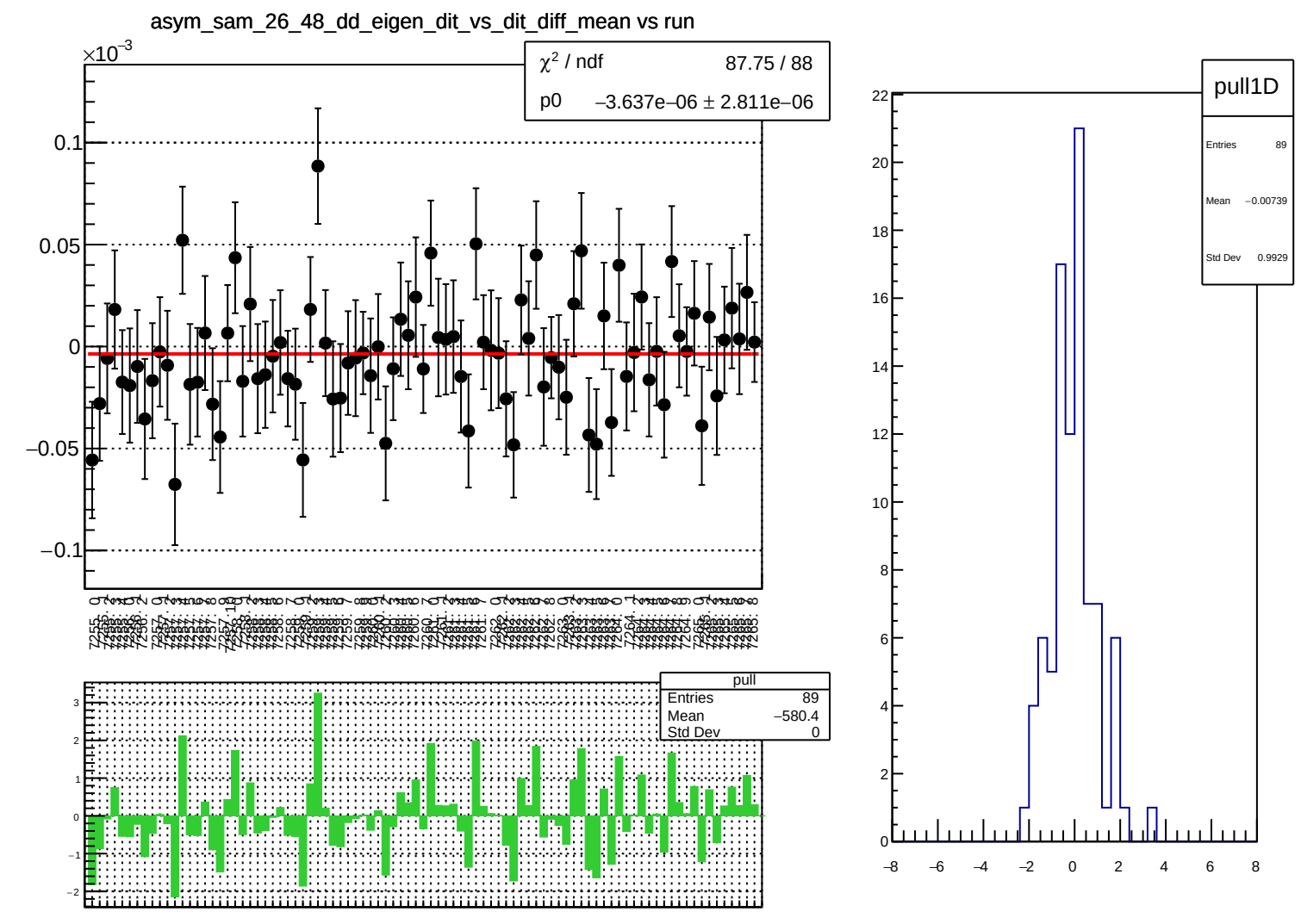

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 88
p0 0.001277 ± 0.04021
pull
Entries 89
Mean 14.7
Std Dev 0

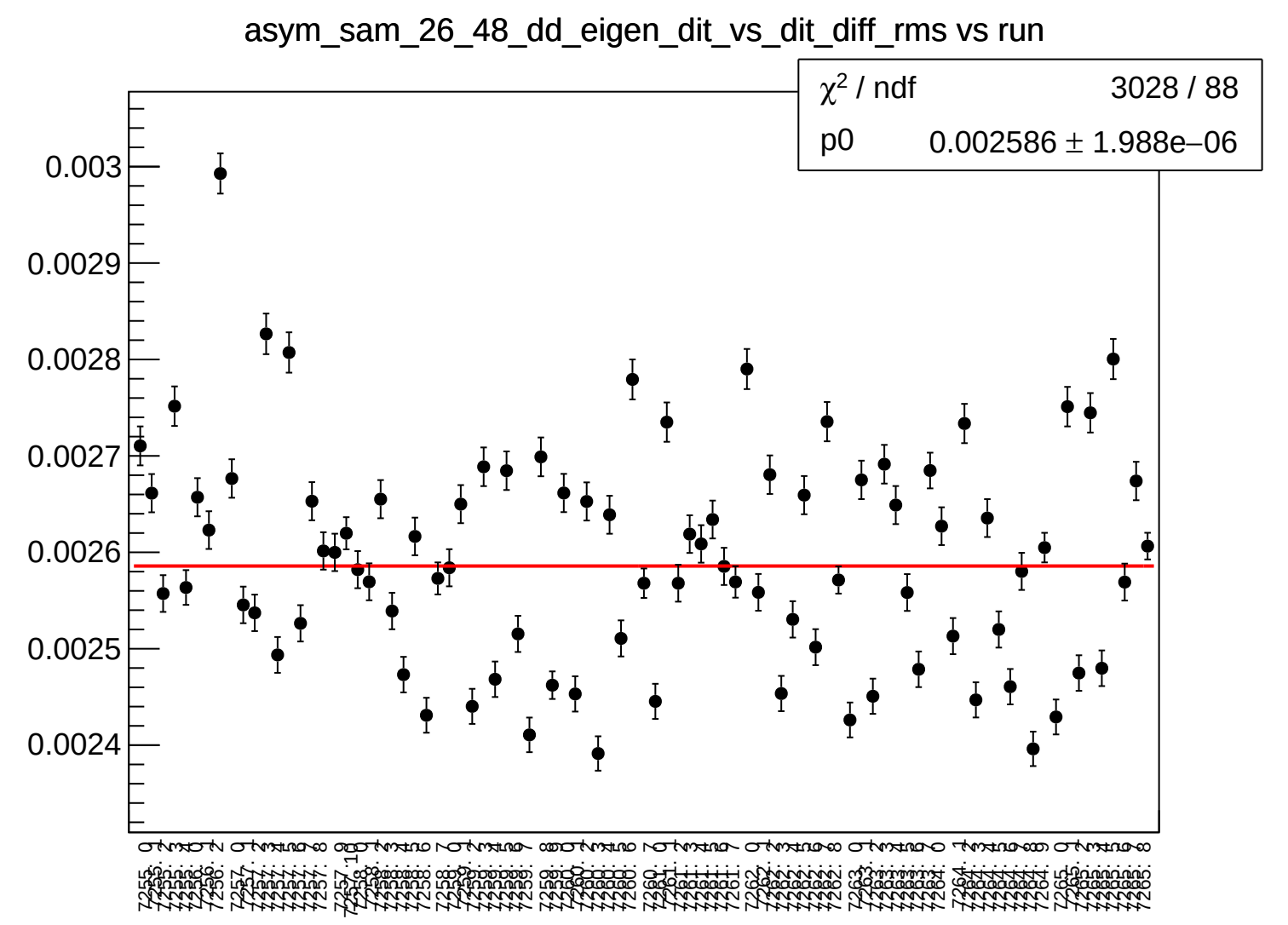

pull1D
Entries 89
Mean 0.03003
Std Dev 1.082

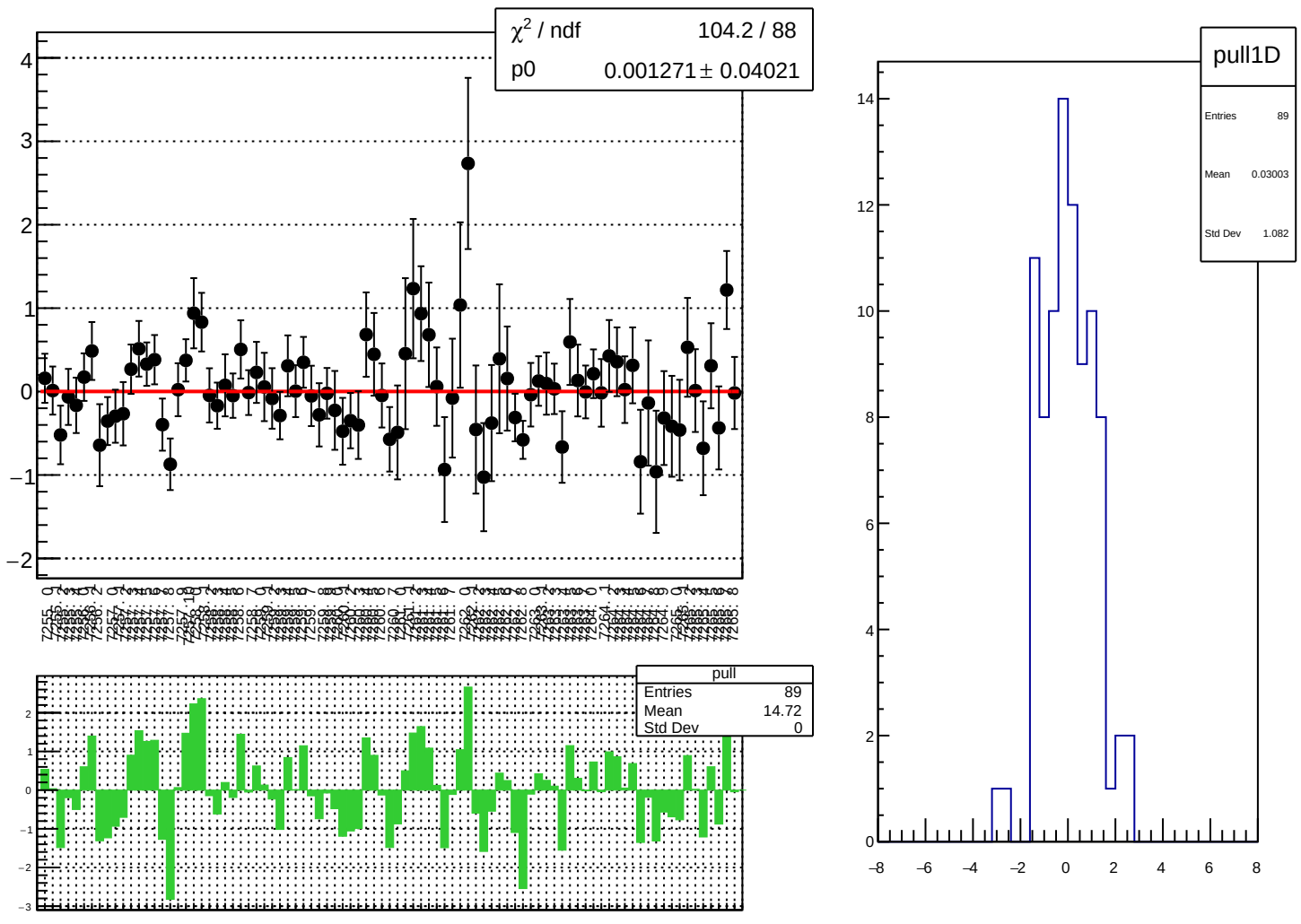

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.474e+05 / 88
p0 35.37 ± 0.02843
100
90
80
70
60
50
40
30
20

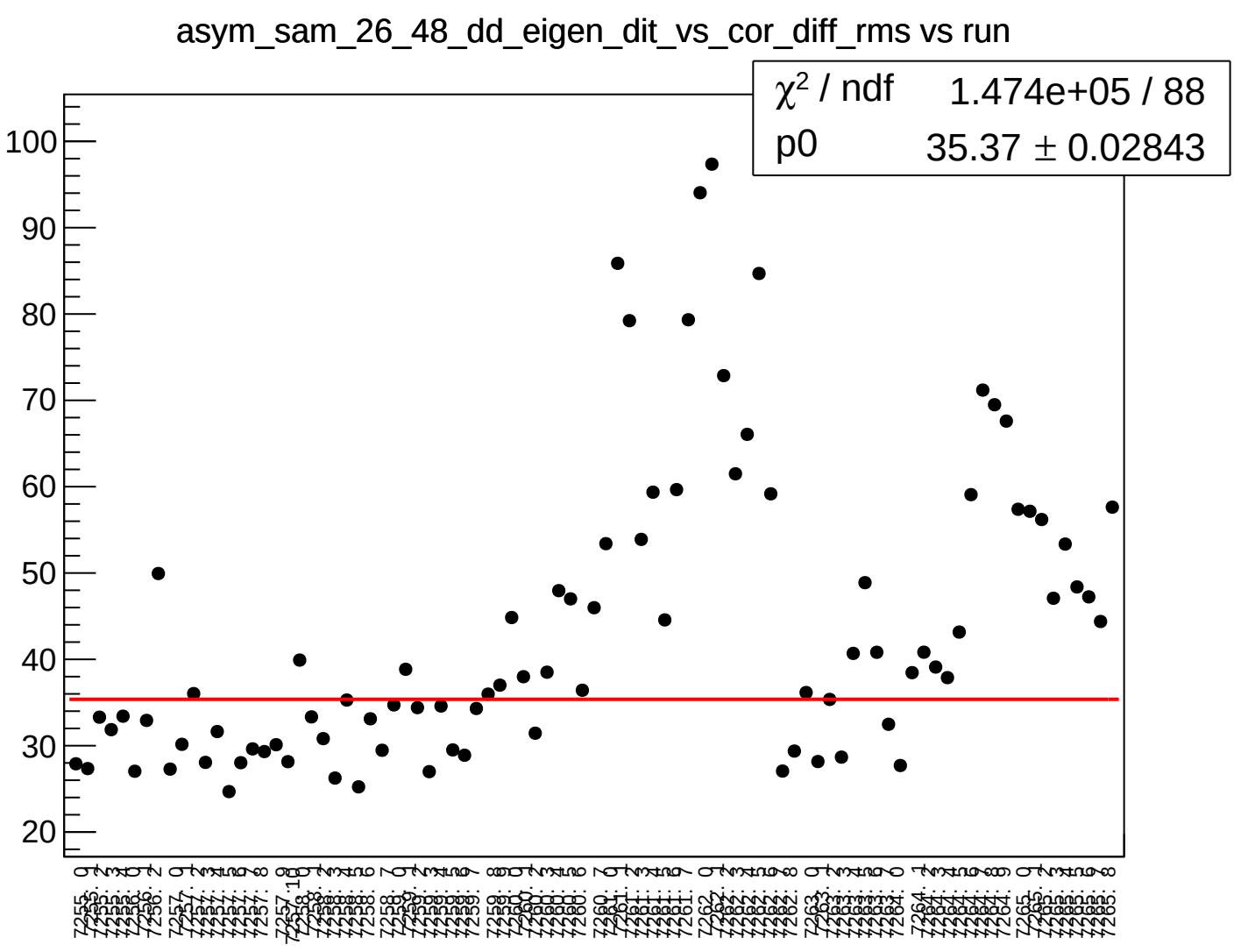

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.2 / 88
p0 0.001277 ± 0.04021
pull
Entries 89
Mean 14.7
Std Dev 0
pull1D
Entries 89
Mean 0.03003
Std Dev 1.082

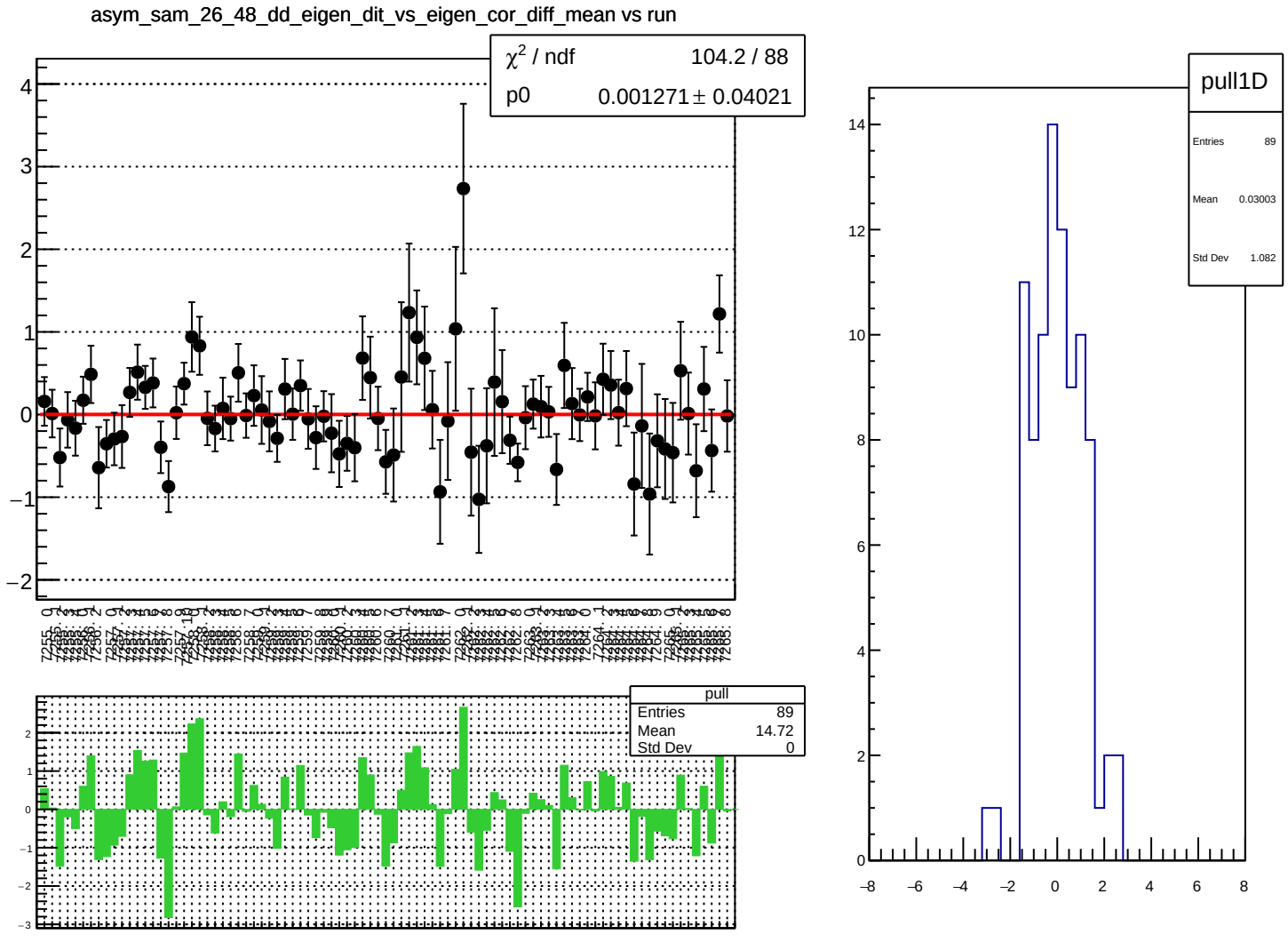

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.474e+05 / 88
p0 35.37 ± 0.02843
100
90
80
70
60
50
40
30
20

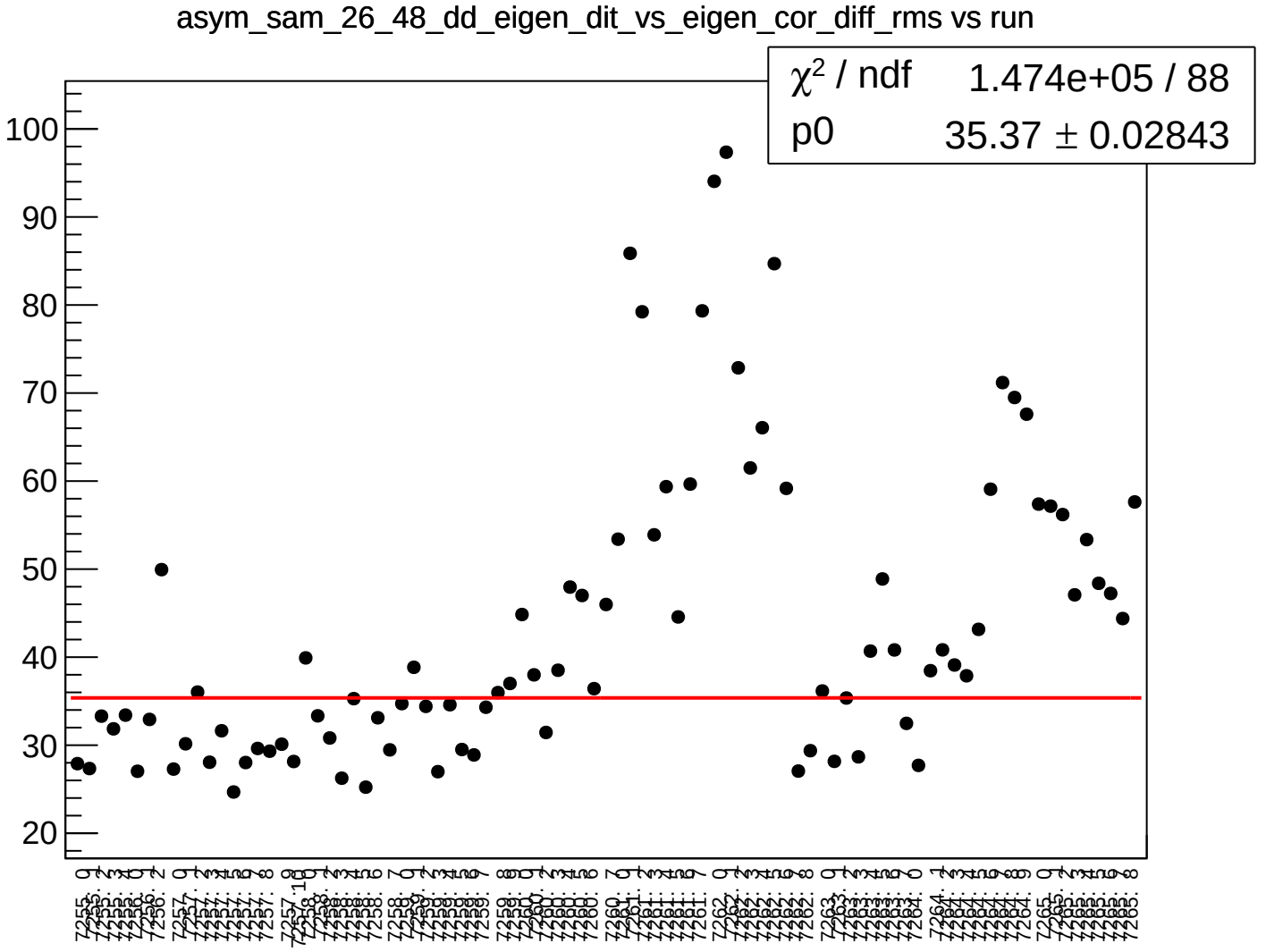

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.75 / 88
p0 −3.637e−06 ± 2.811e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −580.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.00739
Std Dev 0.9929
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

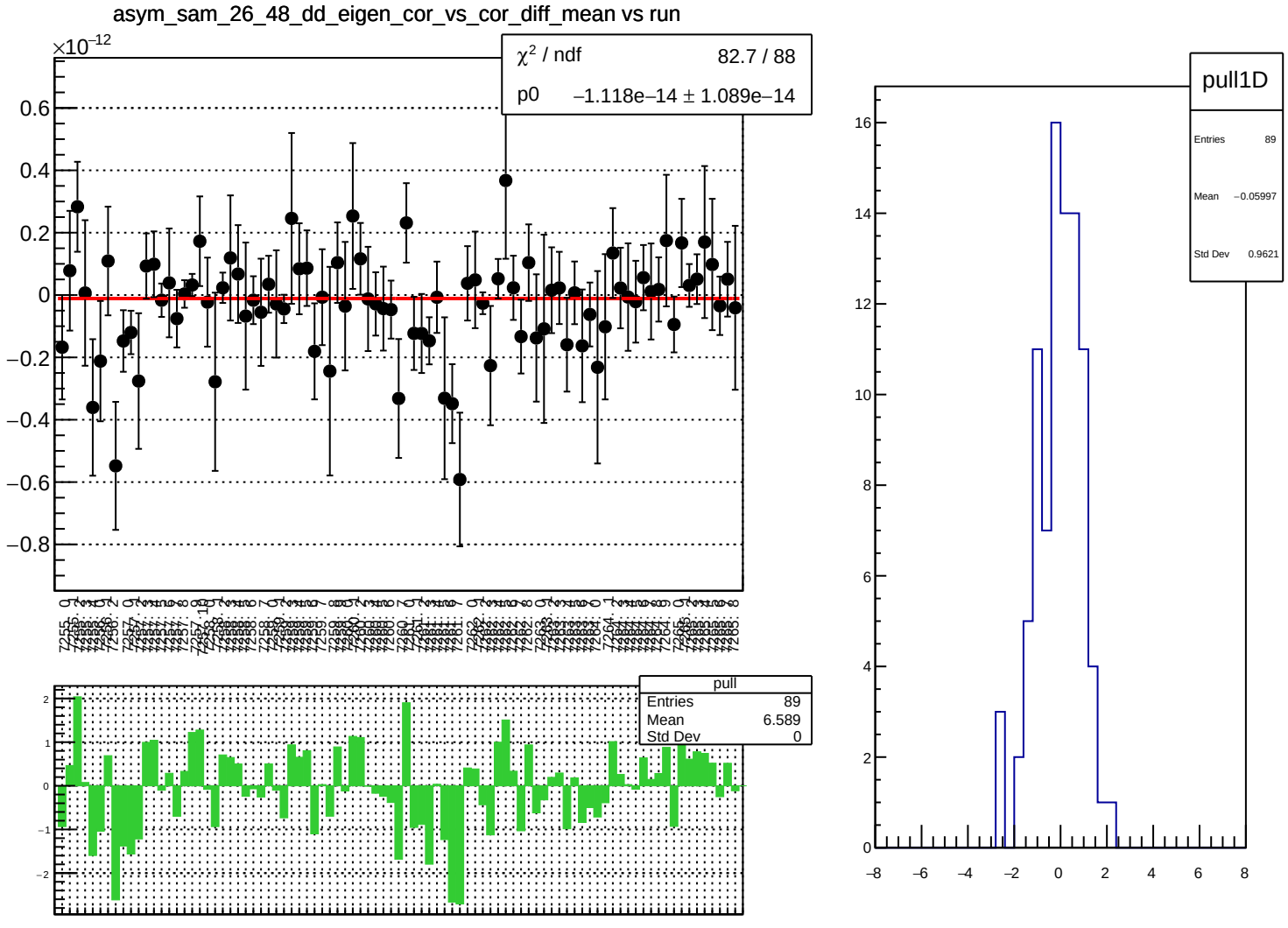

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3028 / 88
p0 0.002586 ± 1.988e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024

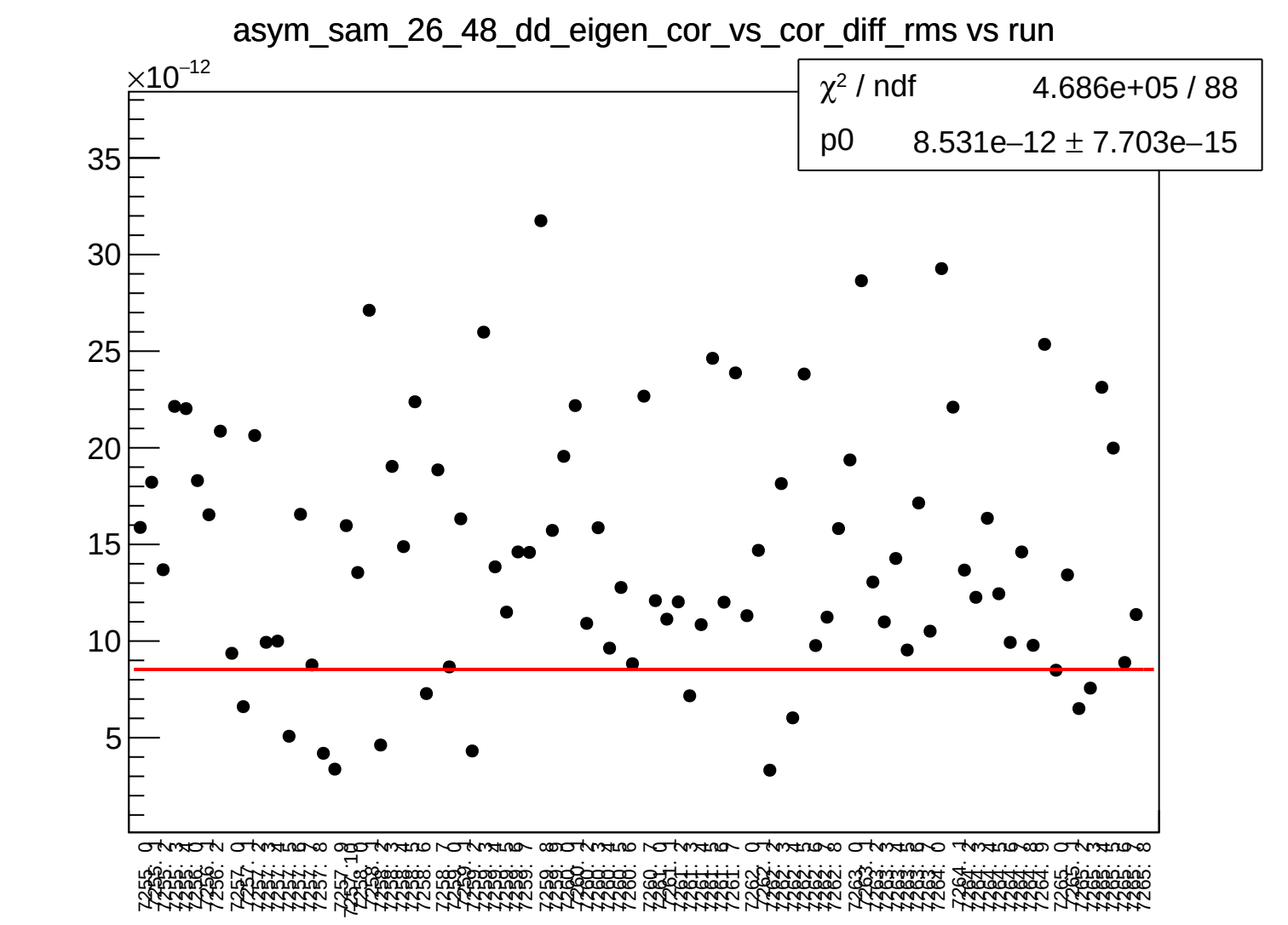

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 88
p0 0.001271 ± 0.04021
pull
Entries 89
Mean 14.72
Std Dev 0
pull1D
Entries 89
Mean 0.03003
Std Dev 1.082

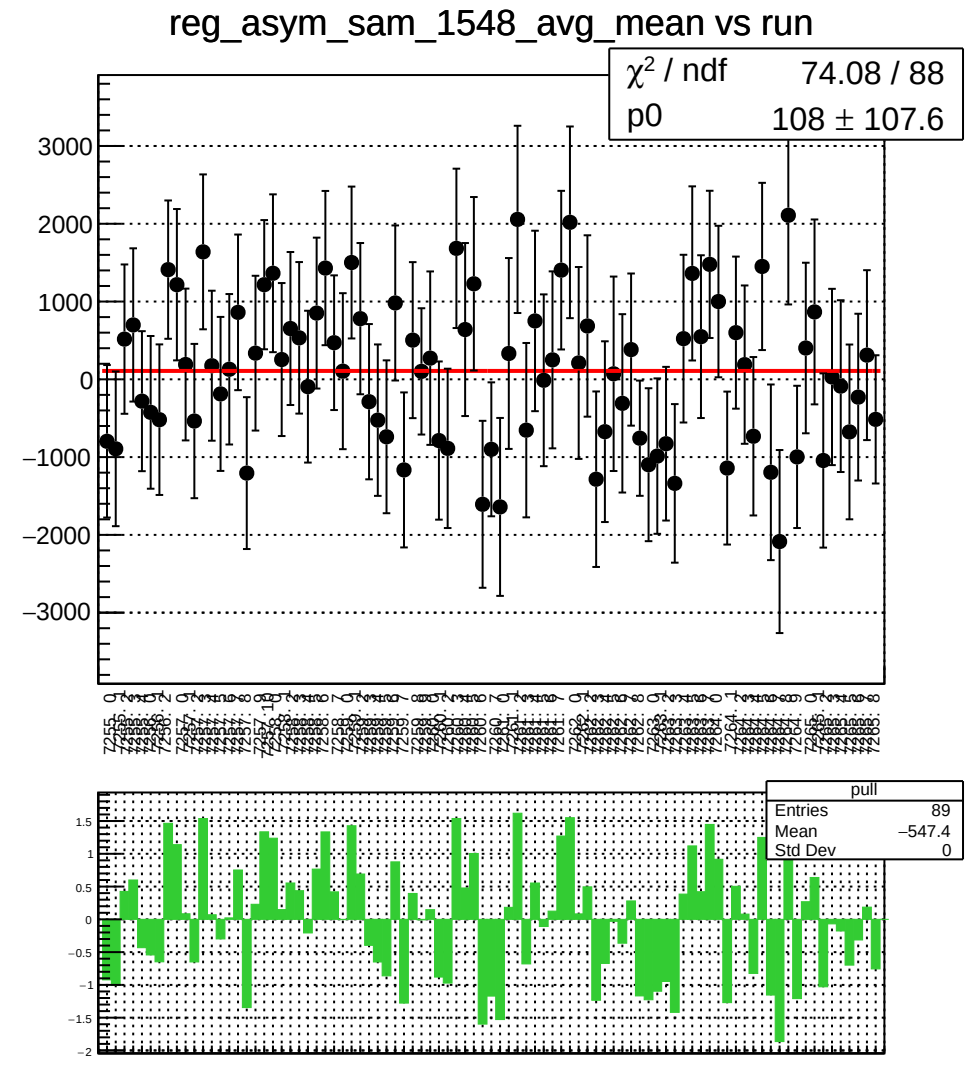

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.474e+05 / 88
p0 35.37 ± 0.02843
100
90
80
70
60
50
40
30
20

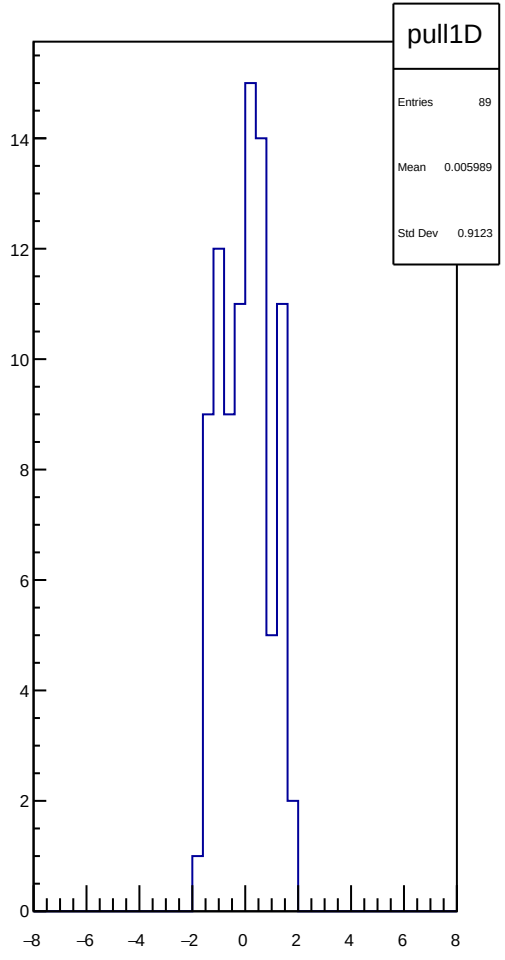

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.2 / 88
p0 0.001271 ± 0.04021
pull
Entries 89
Mean 14.72
Std Dev 0
pull1D
Entries 89
Mean 0.03003
Std Dev 1.082

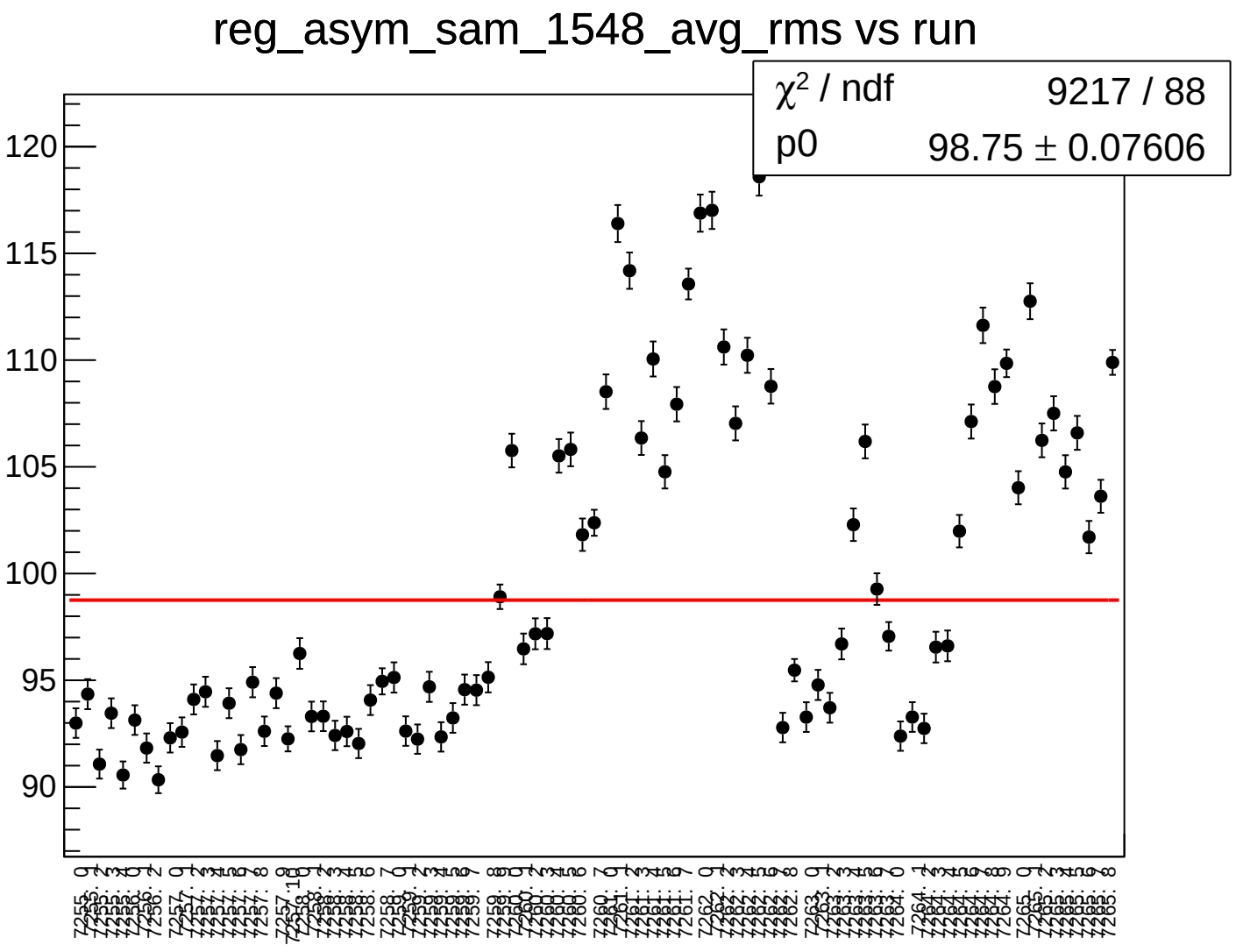

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.474e+05 / 88
p0 35.37 ± 0.02843
100
90
80
70
60
50
40
30
20

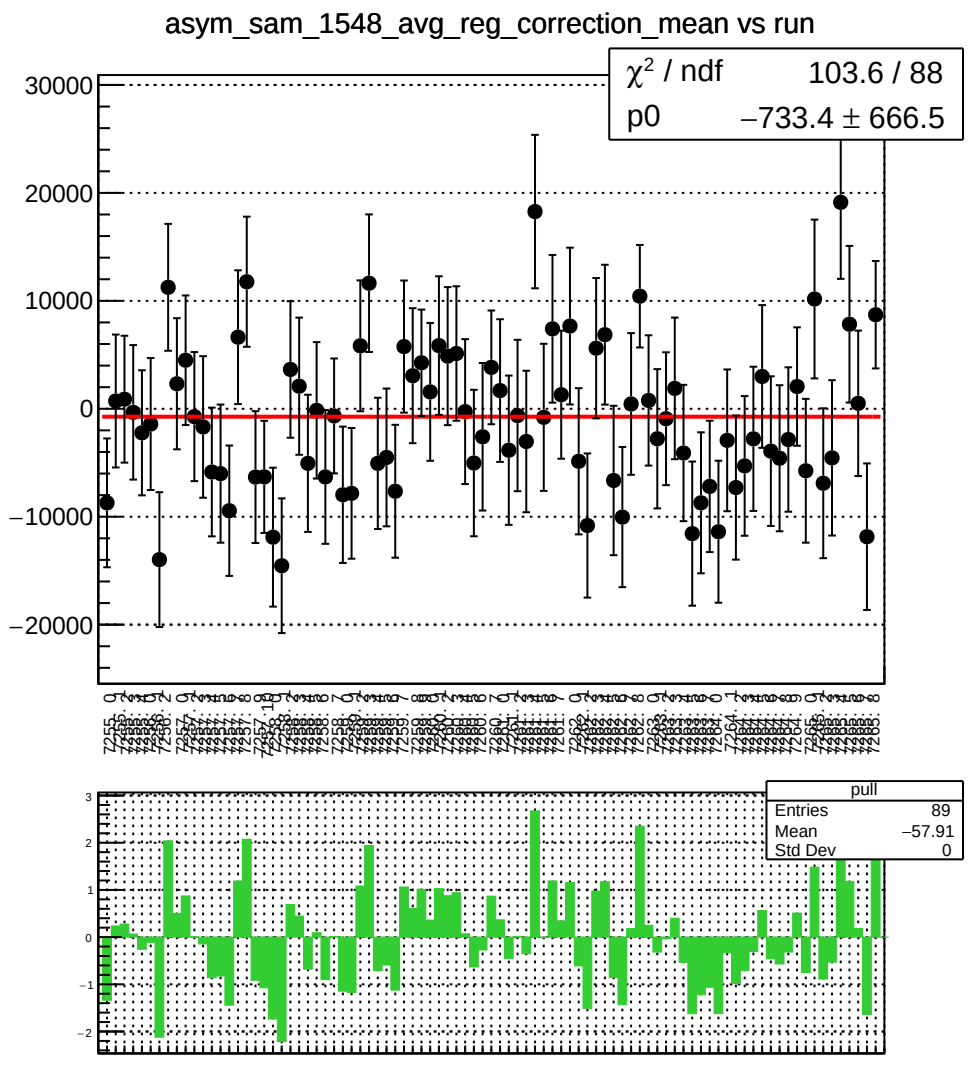

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 82.7 / 88
p0 −1.118e−14 ± 1.089e−14
pull
Entries 89
Mean 6.589
Std Dev 0
pull1D
Entries 89
Mean −0.05997
Std Dev 0.9621

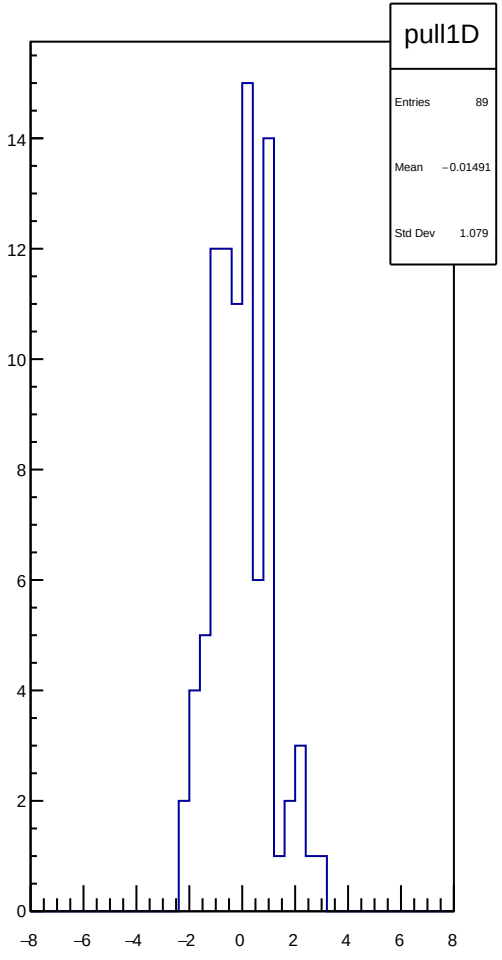

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.686e+05 / 88
p0 8.531e−12 ± 7.703e−15
35
30
25
20
15
10
5

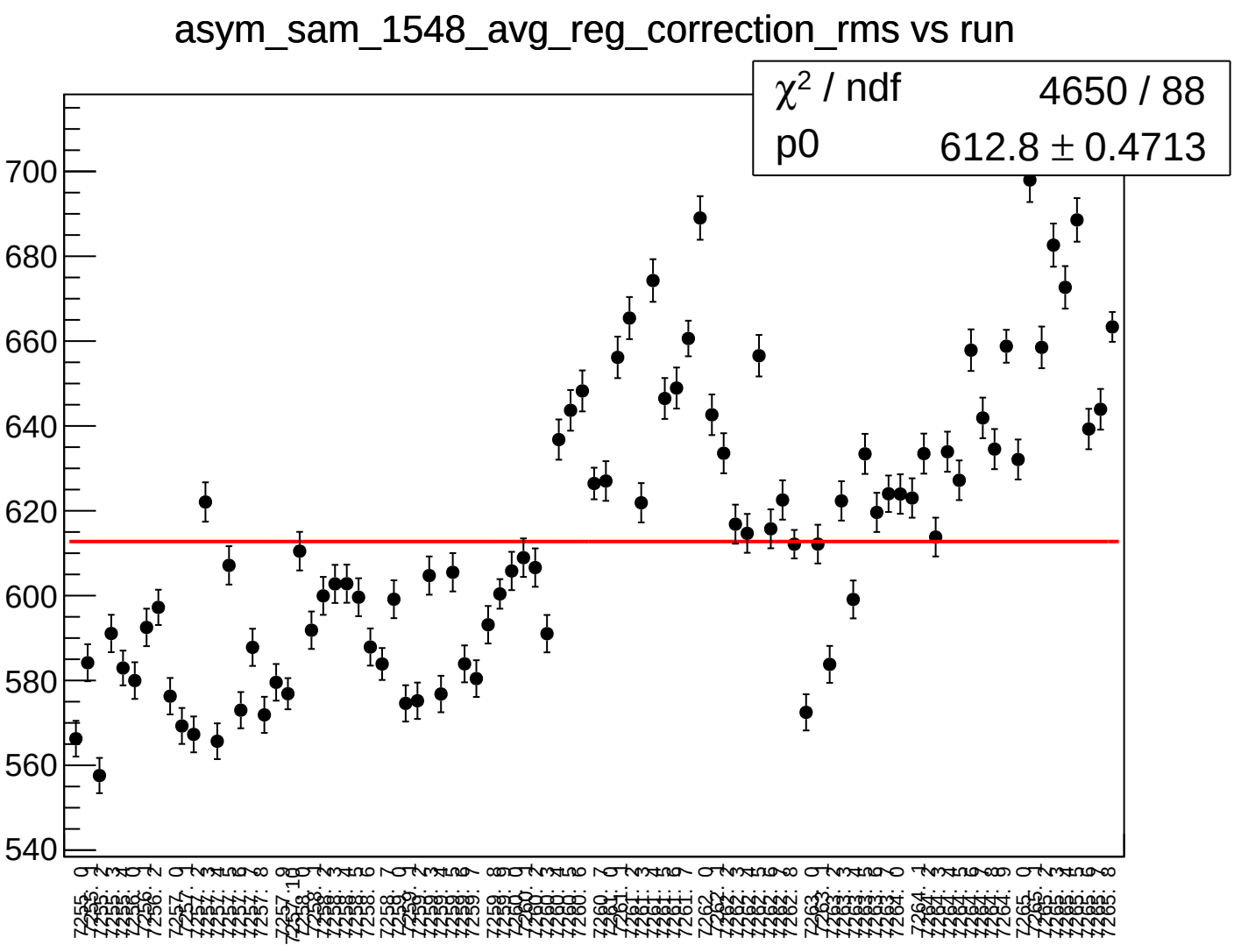

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 74.08 / 88
p0 108 ± 107.6
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −547.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

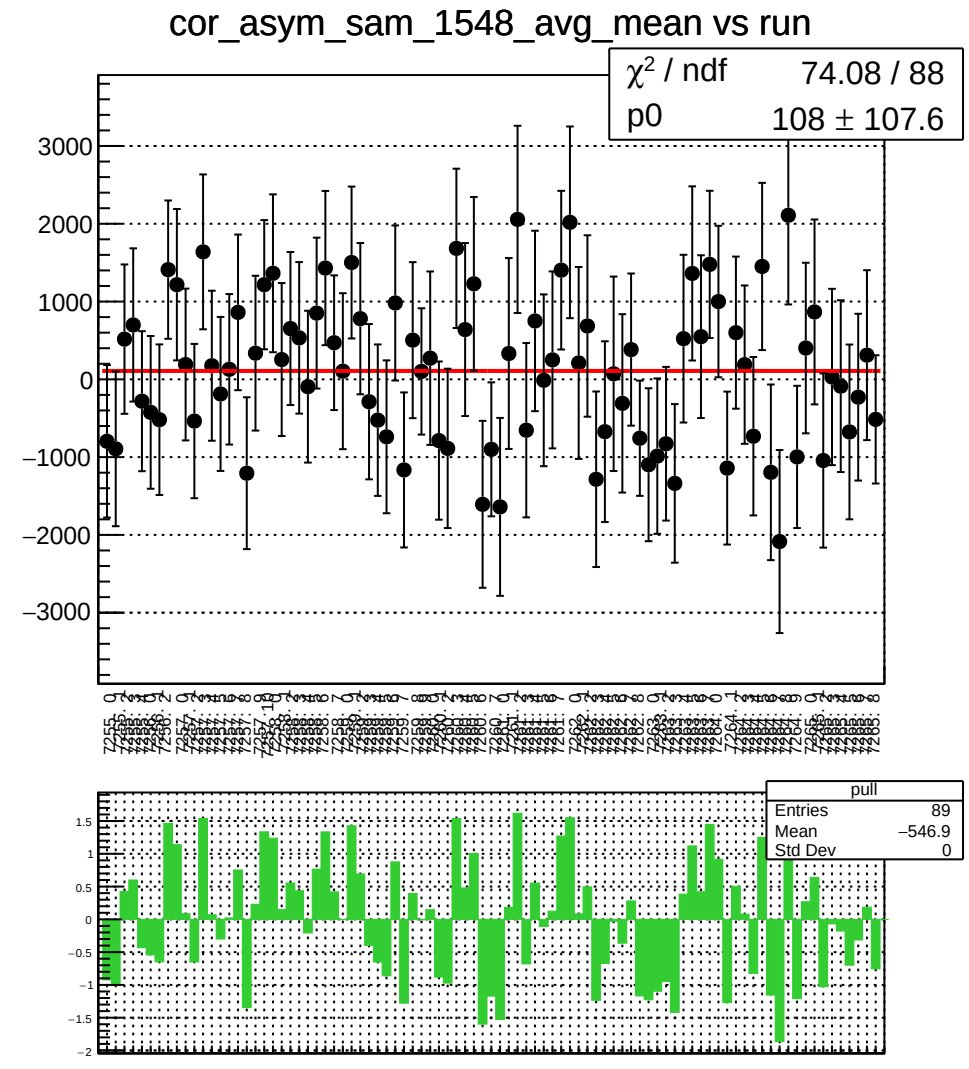

pull1D
Entries 89
Mean 0.005989
Std Dev 0.9123
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

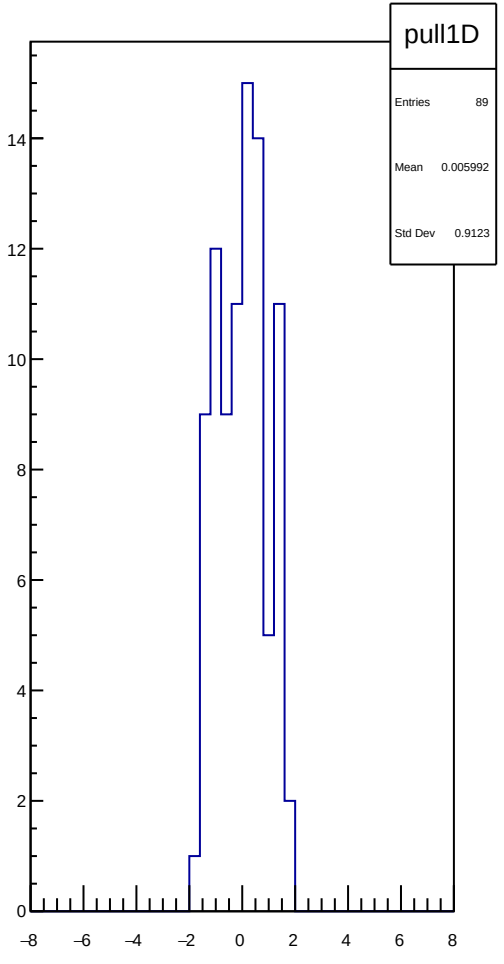

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 9217 / 88
p0 98.75 ± 0.07606
120
115
110
105
100
95
90

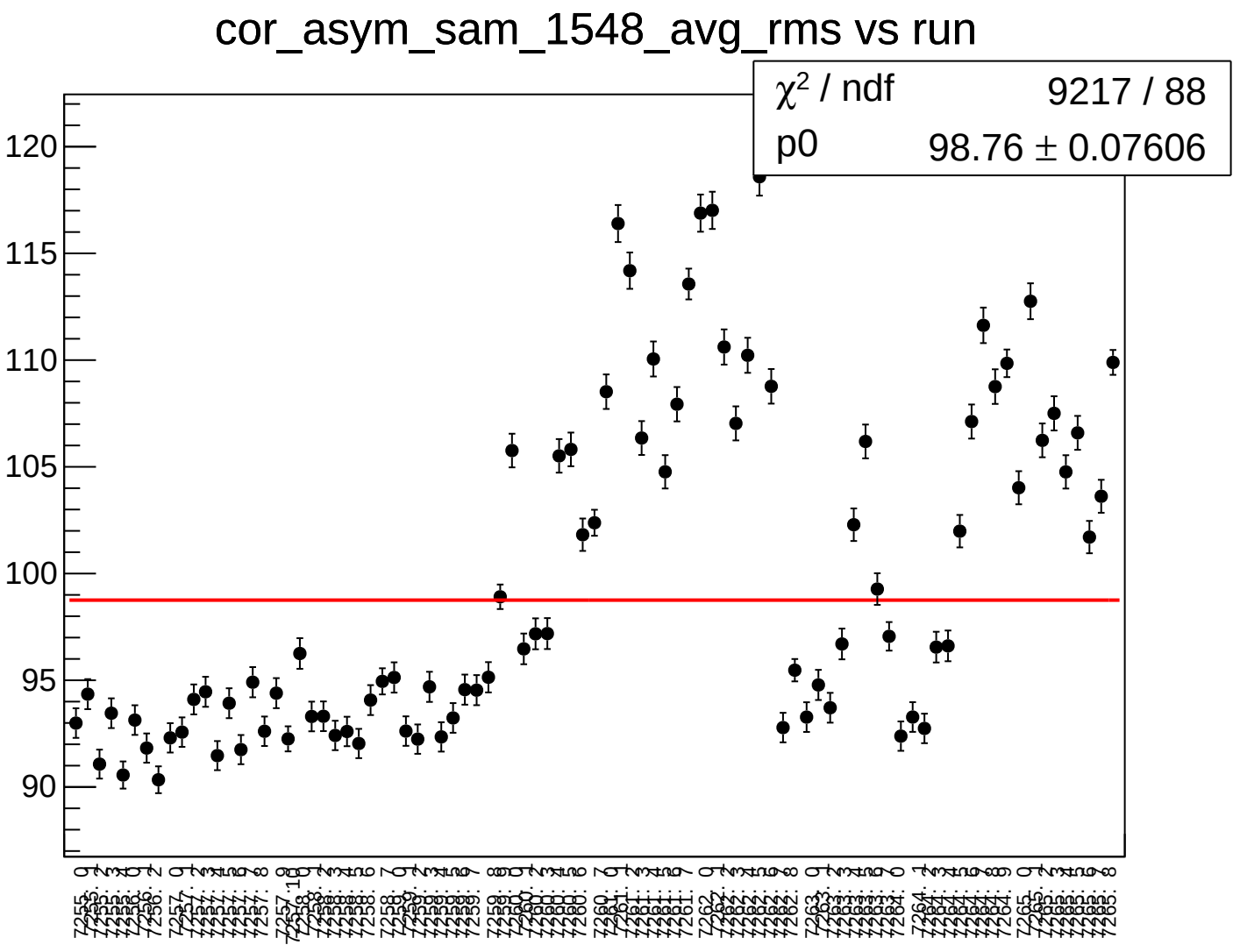

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 103.6 / 88
p0 −733.4 ± 666.5
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −57.91
Std Dev 0
3
2
1
0
−1
−2

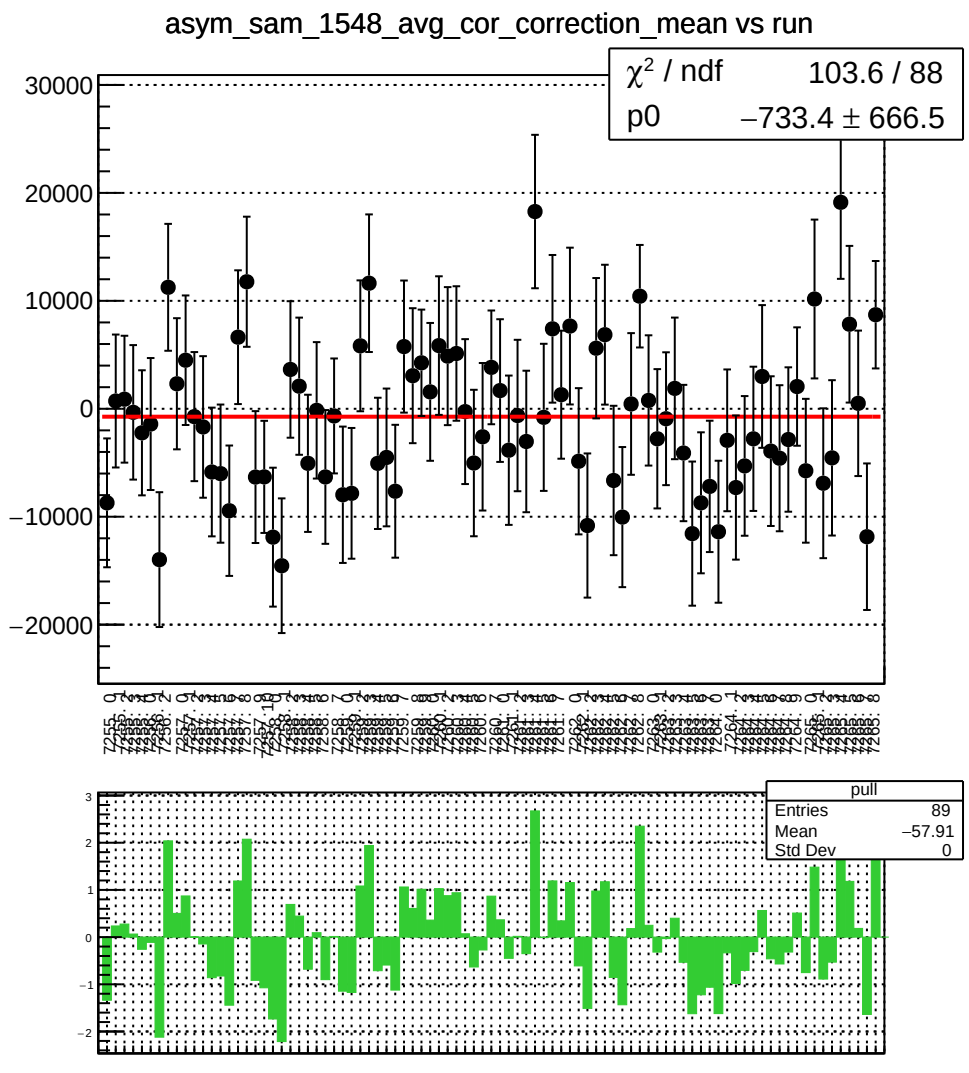

pull1D
Entries 89
Mean −0.01491
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

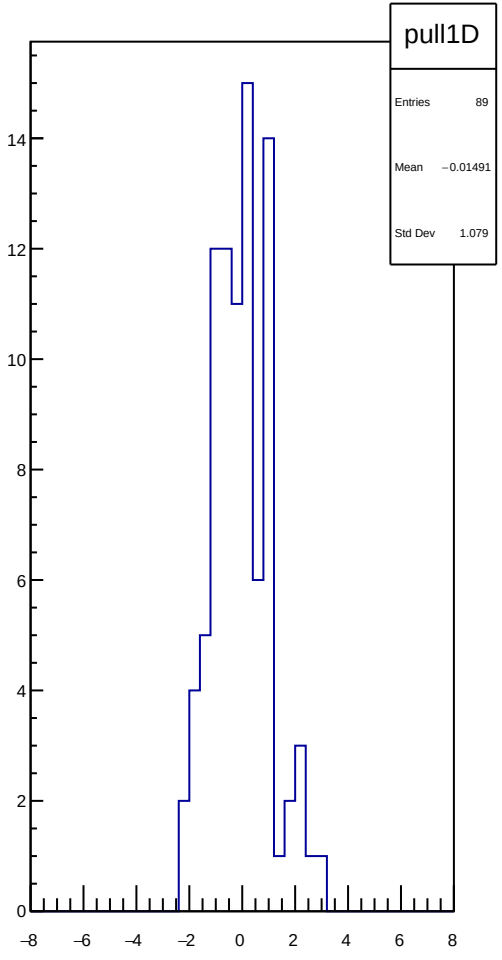

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 4650 / 88
p0 612.8 ± 0.4713
700
680
660
640
620
600
580
560
540

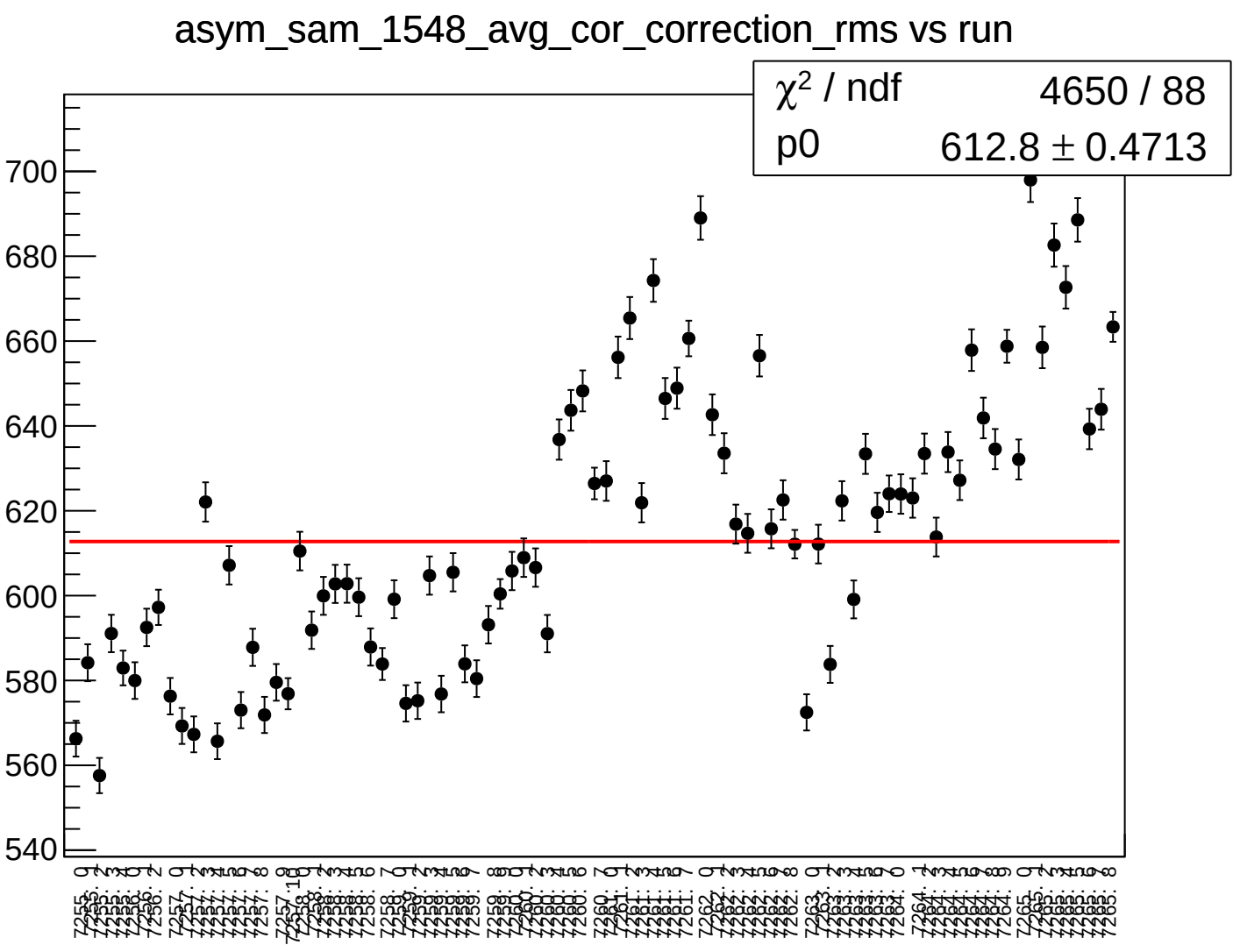

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 74.08 / 88
p0 108 ± 107.6
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −546.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

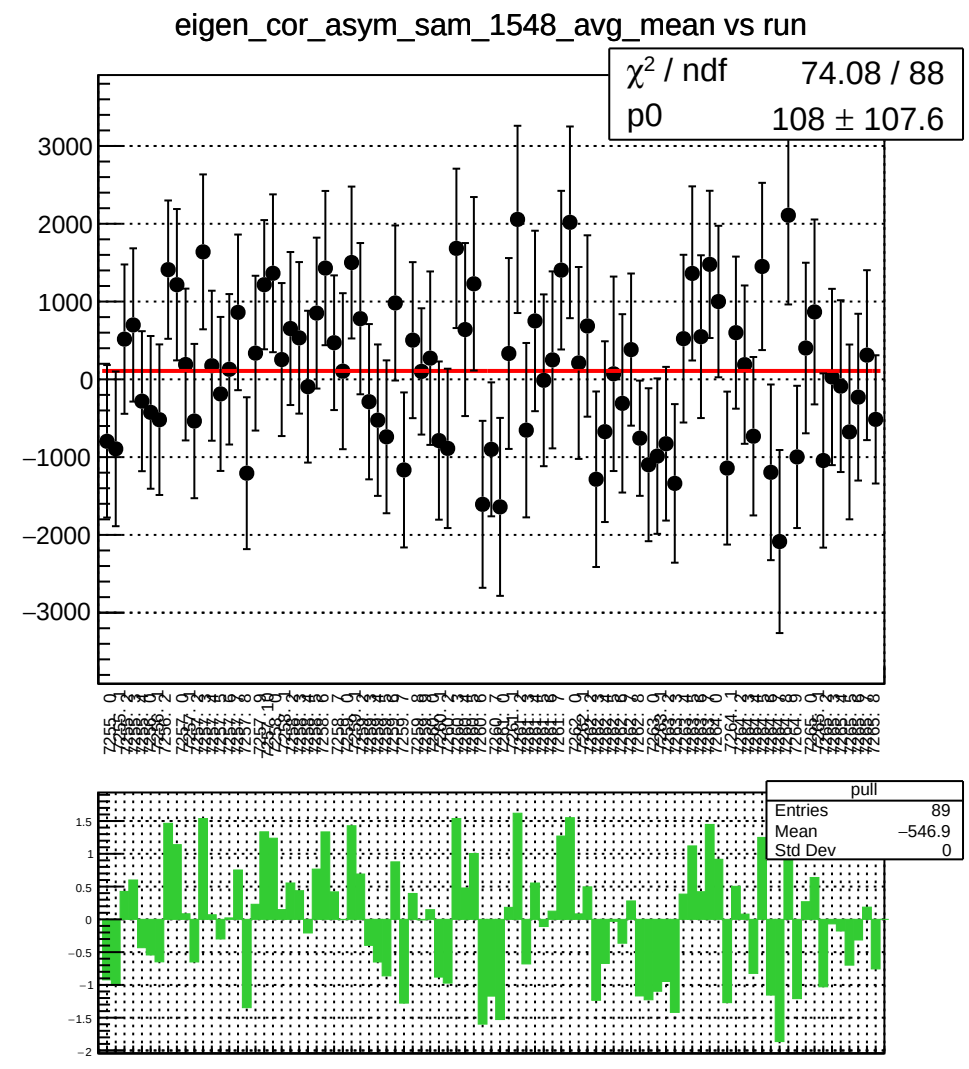

pull1D
Entries 89
Mean 0.005992
Std Dev 0.9123
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

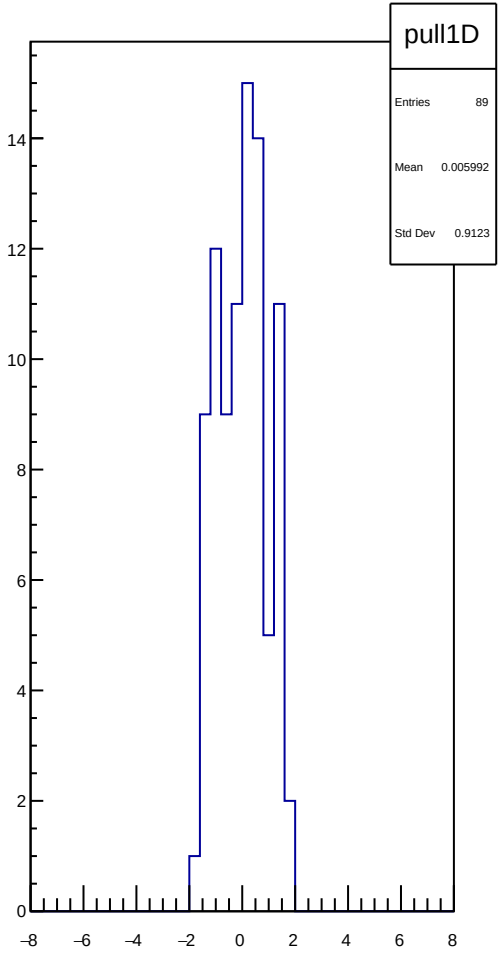

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 9217 / 88
p0 98.76 ± 0.07606
120
115
110
105
100
95
90

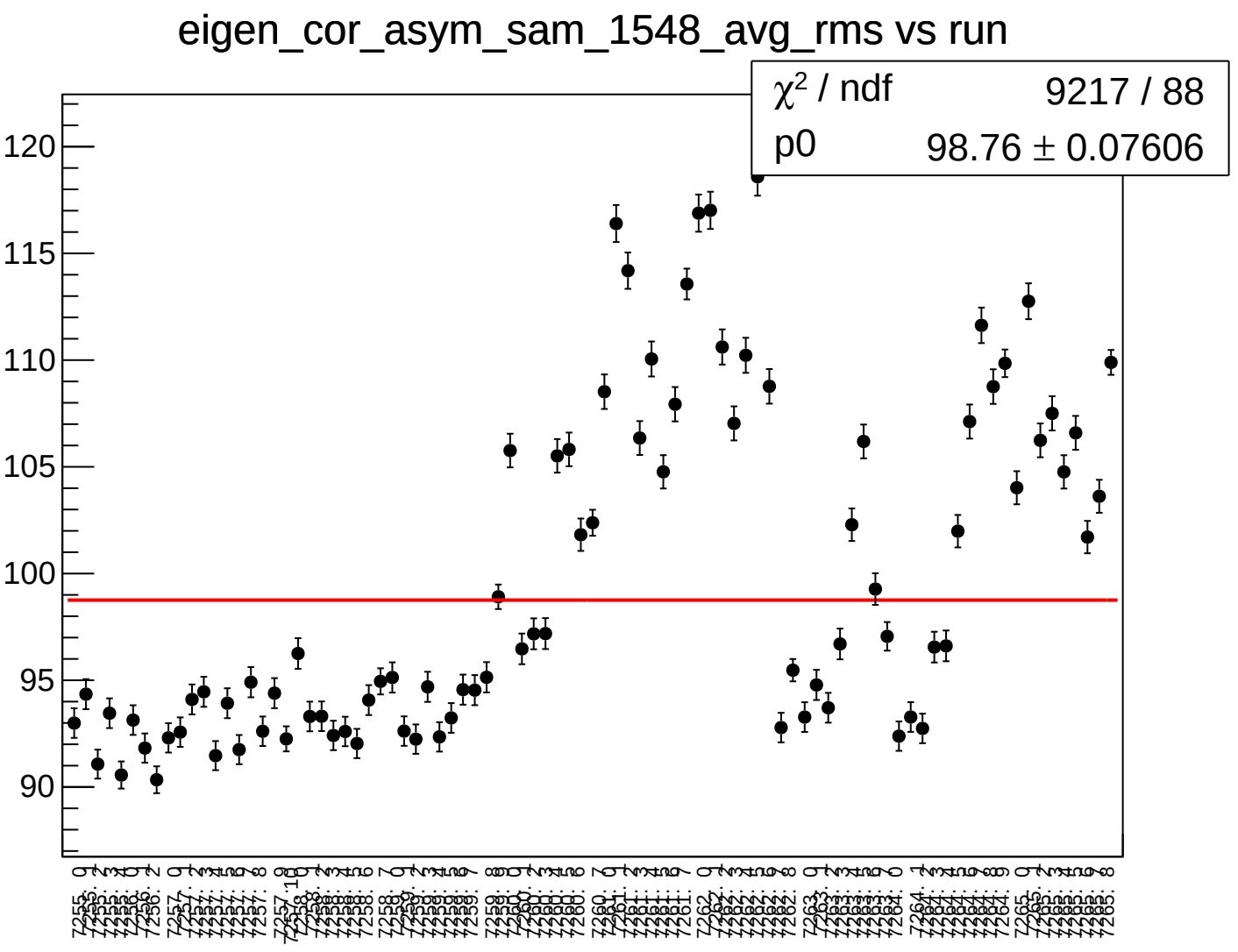

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 103.6 / 88
p0 −733.4 ± 666.5
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −57.91
Std Dev 0
3
2
1
0
−1
−2

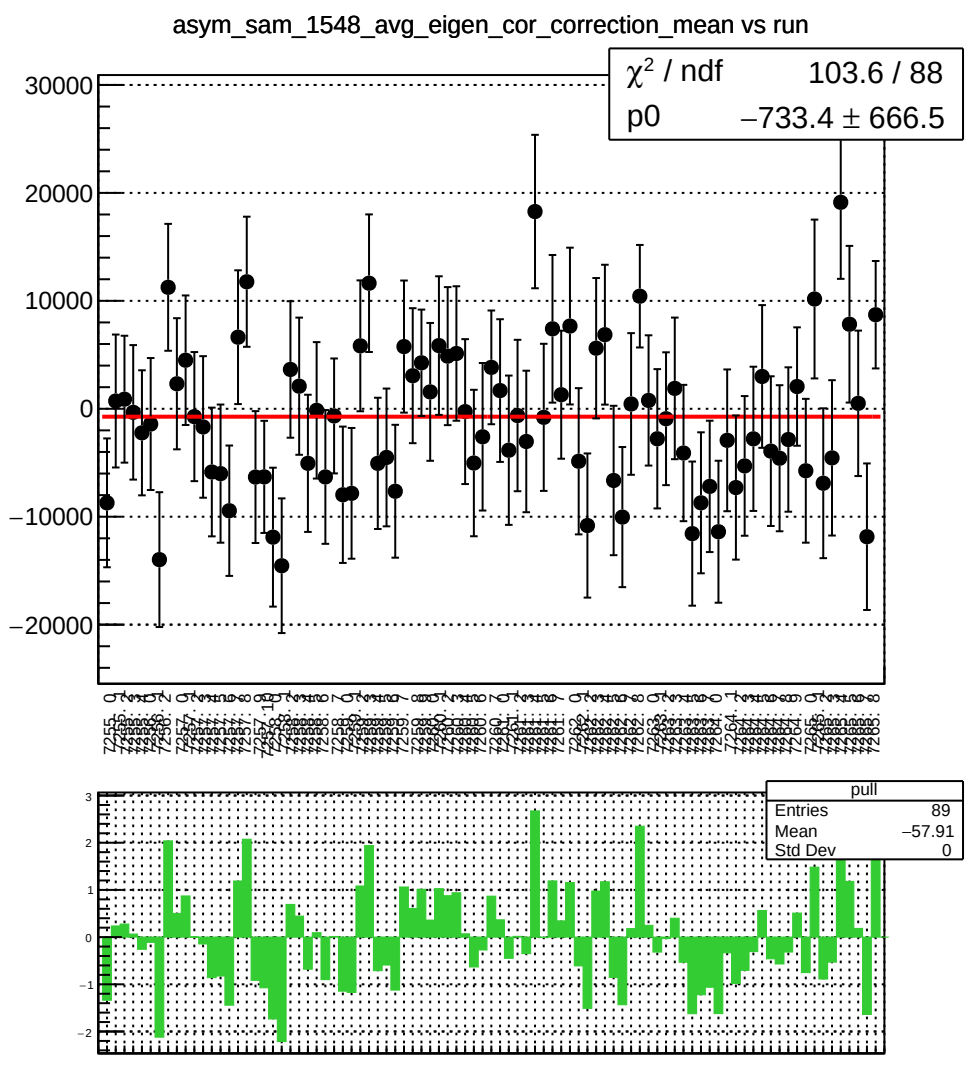

pull1D
Entries 89
Mean −0.01491
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

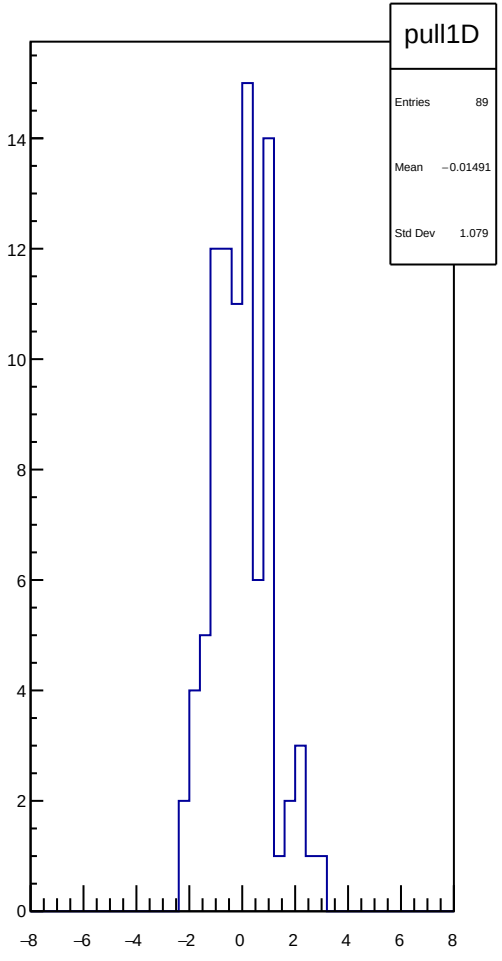

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 4650 / 88
p0 612.8 ± 0.4713
700
680
660
640
620
600
580
560
540

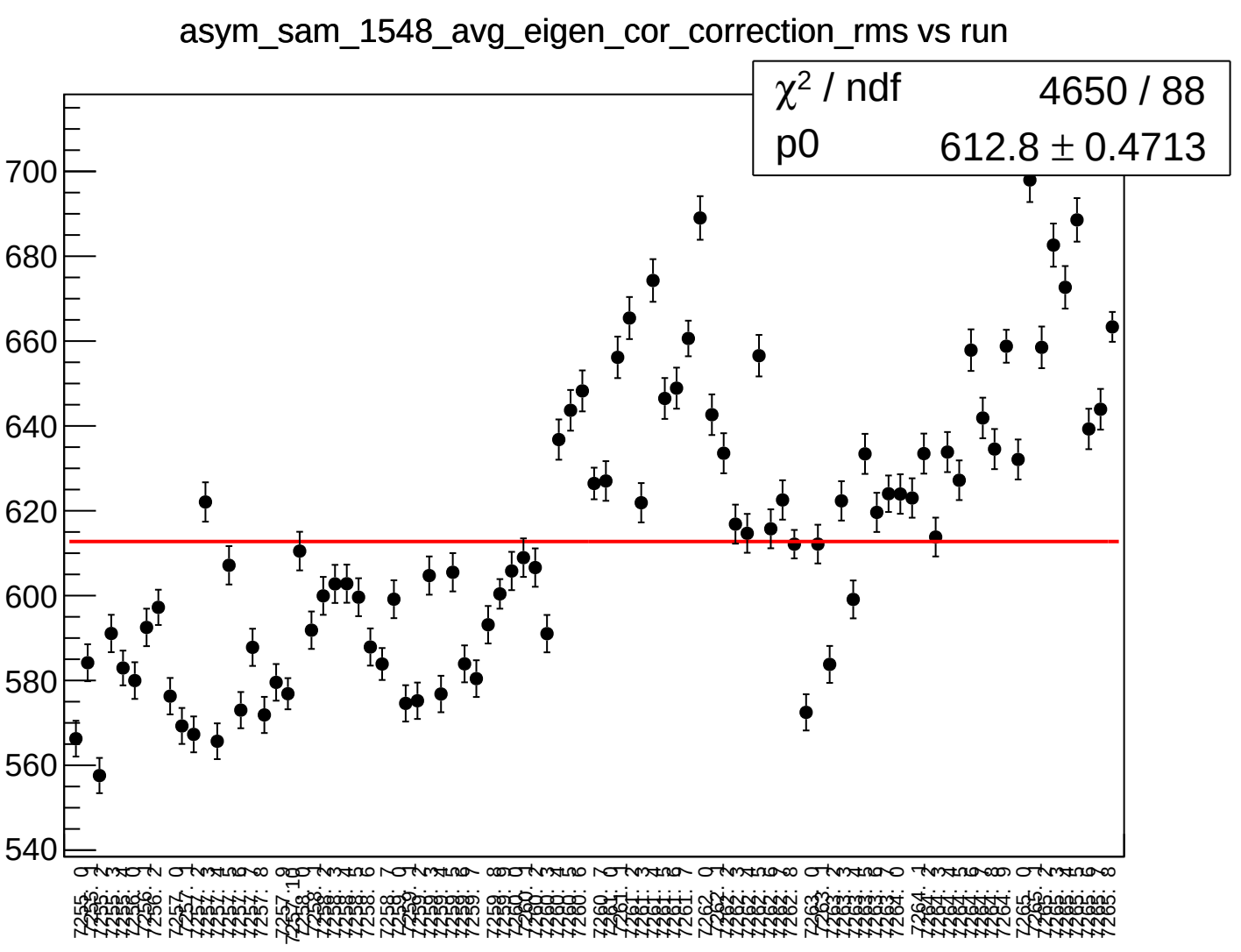

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 74.08 / 88
p0 108 ± 107.6
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −546.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

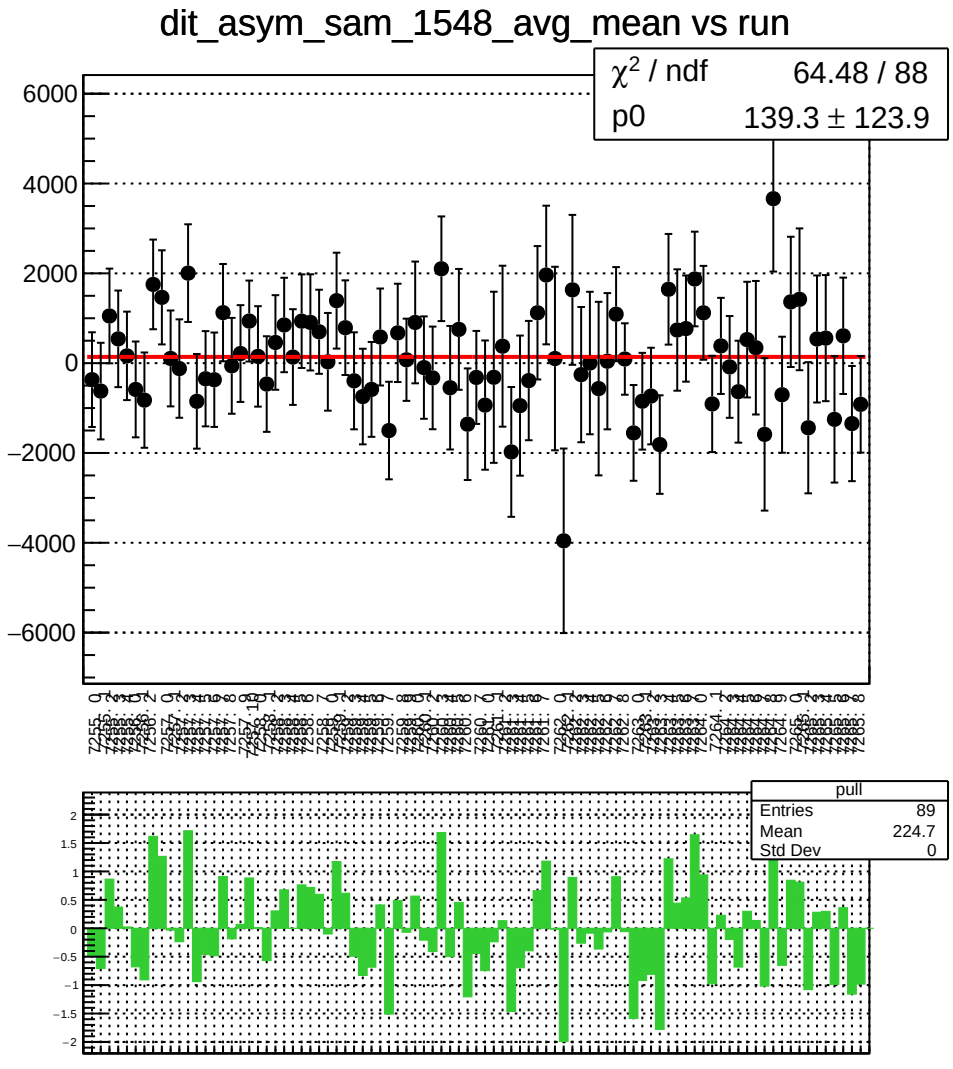

pull1D
Entries 89
Mean 0.005992
Std Dev 0.9123
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

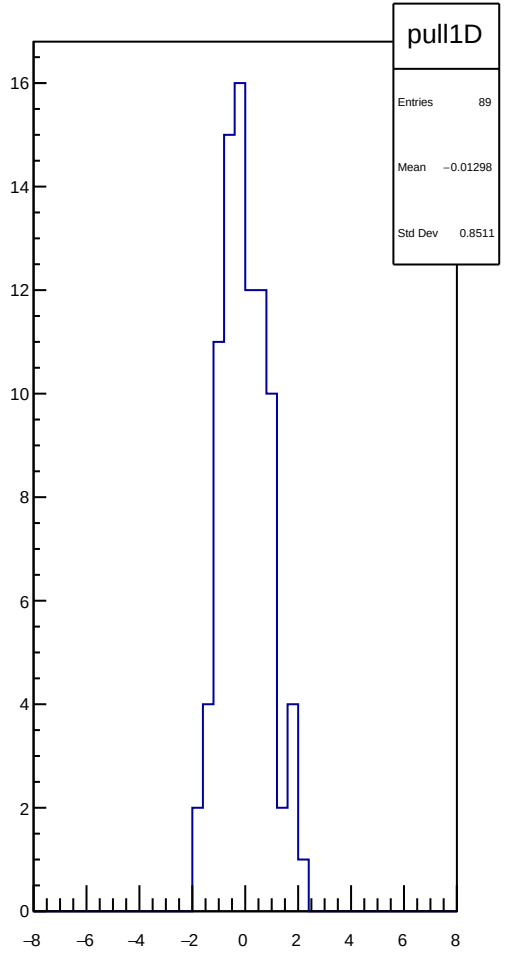

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 9217 / 88
p0 98.76 ± 0.07606
120
115
110
105
100
95
90

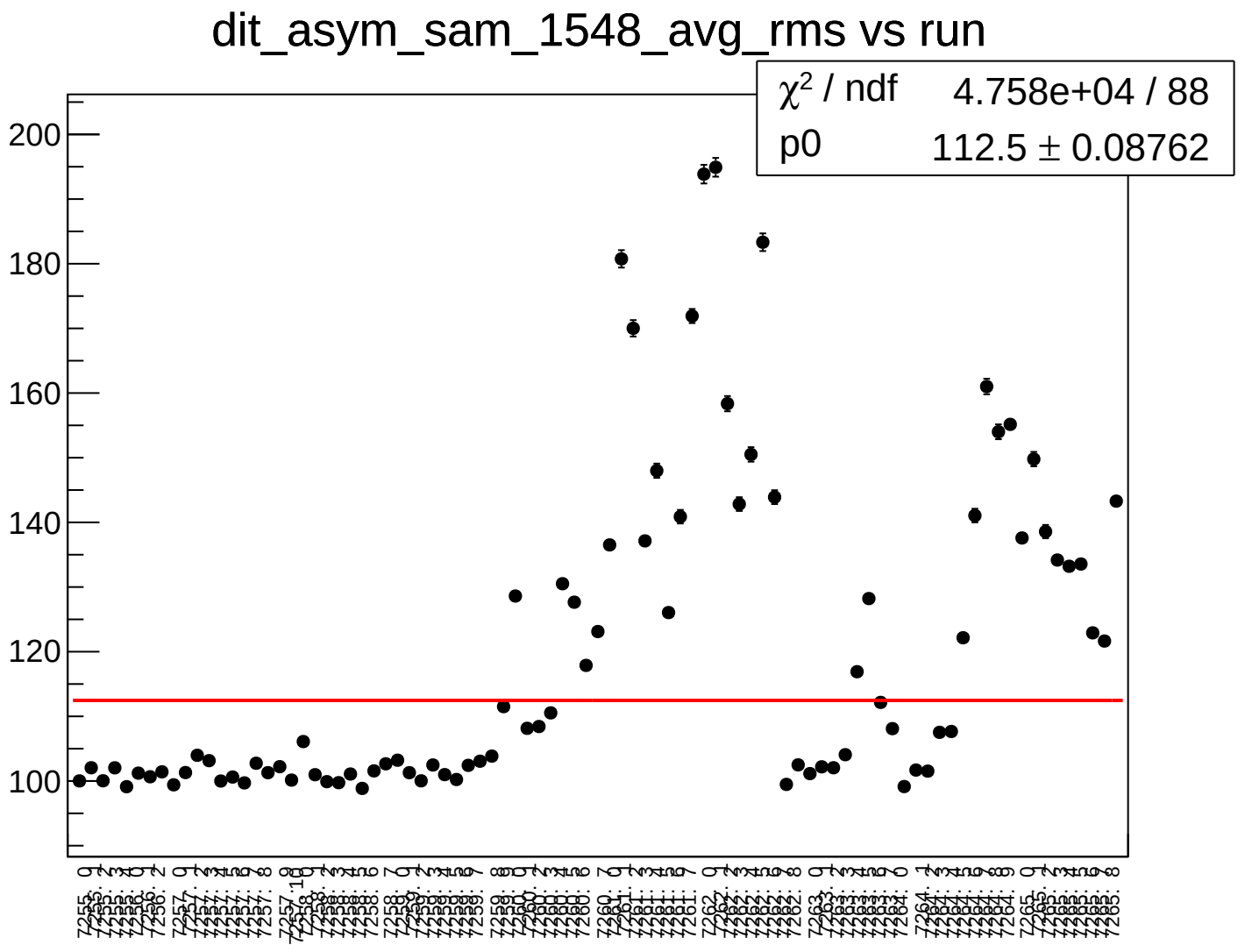

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 103.6 / 88
p0 −733.4 ± 666.5
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −57.91
Std Dev 0
3
2
1
0
−1
−2

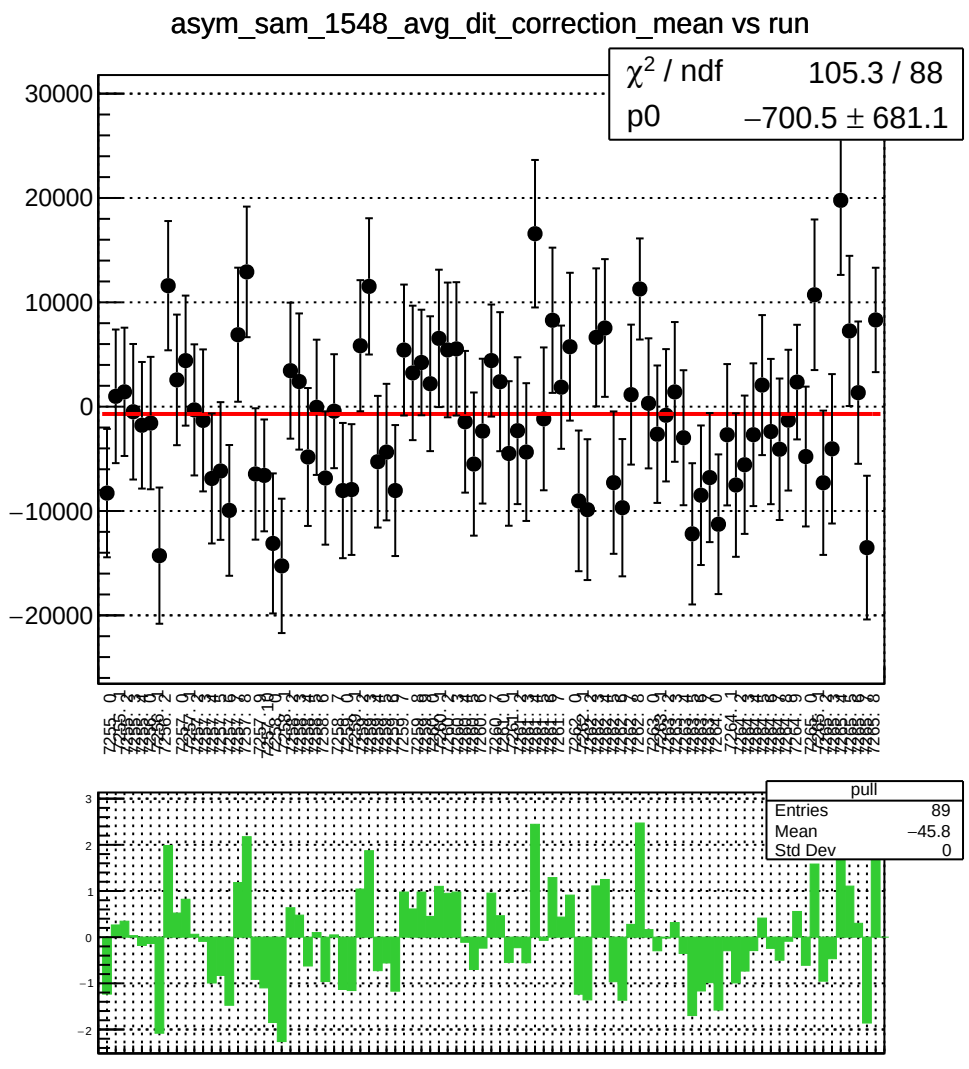

pull1D
Entries 89
Mean −0.01491
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

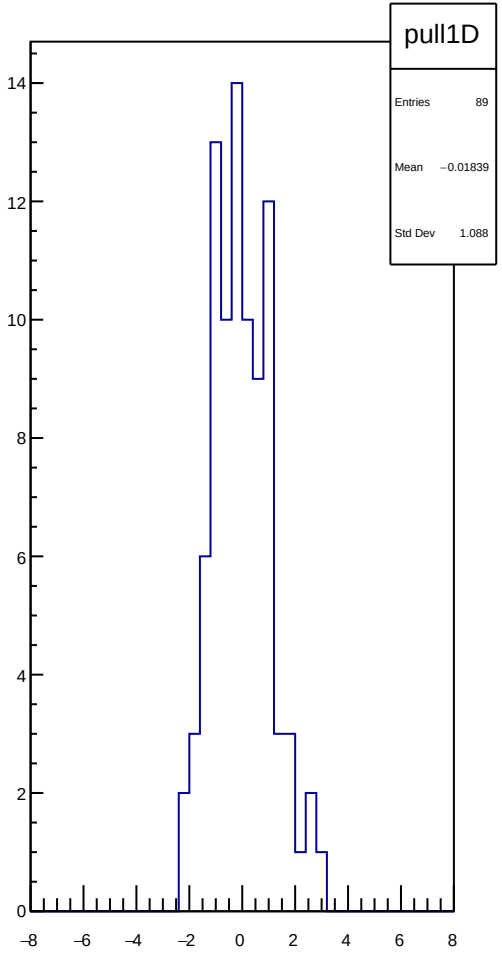

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 4650 / 88
p0 612.8 ± 0.4713
700
680
660
640
620
600
580
560
540

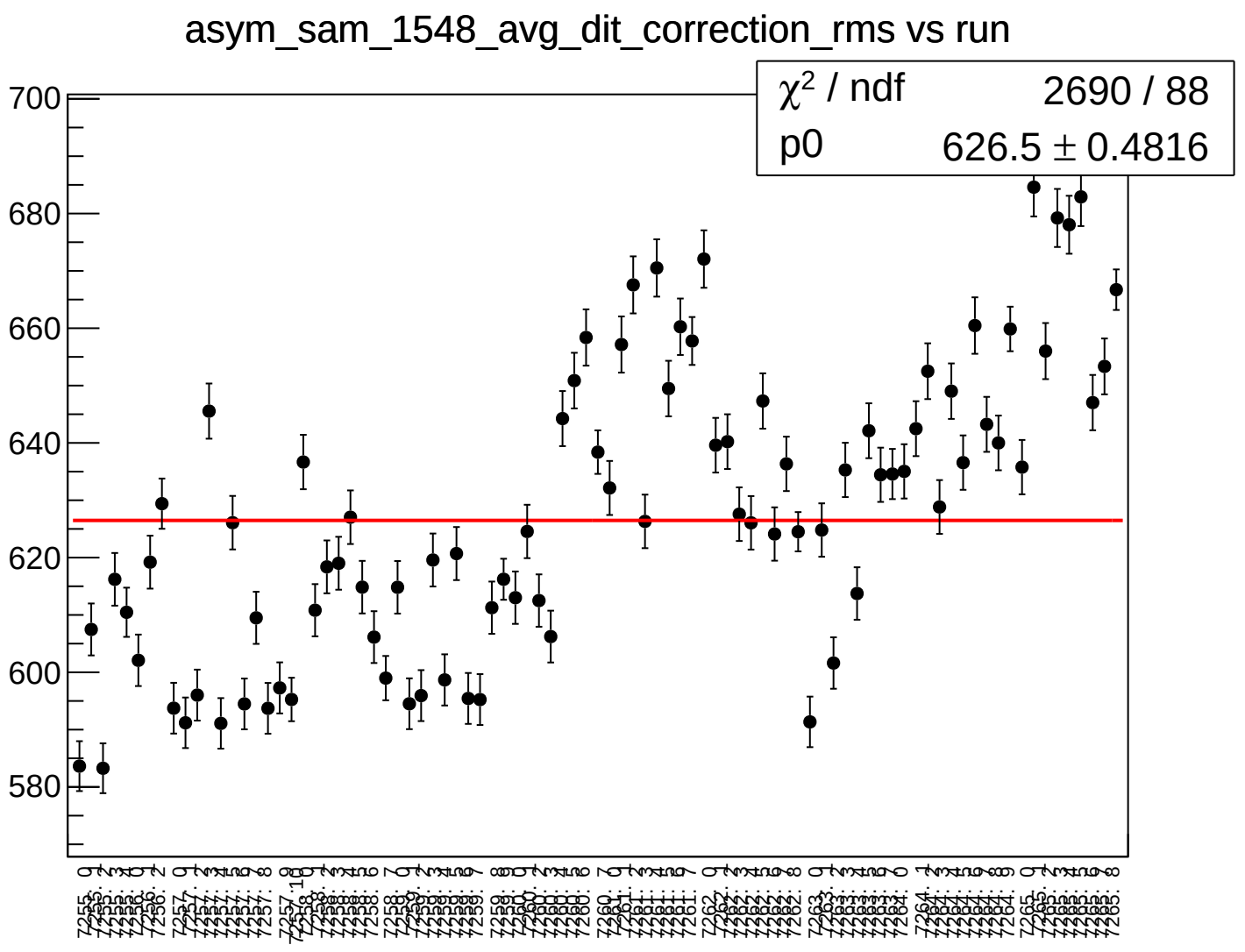

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 64.48 / 88
p0 139.3 ± 123.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 224.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

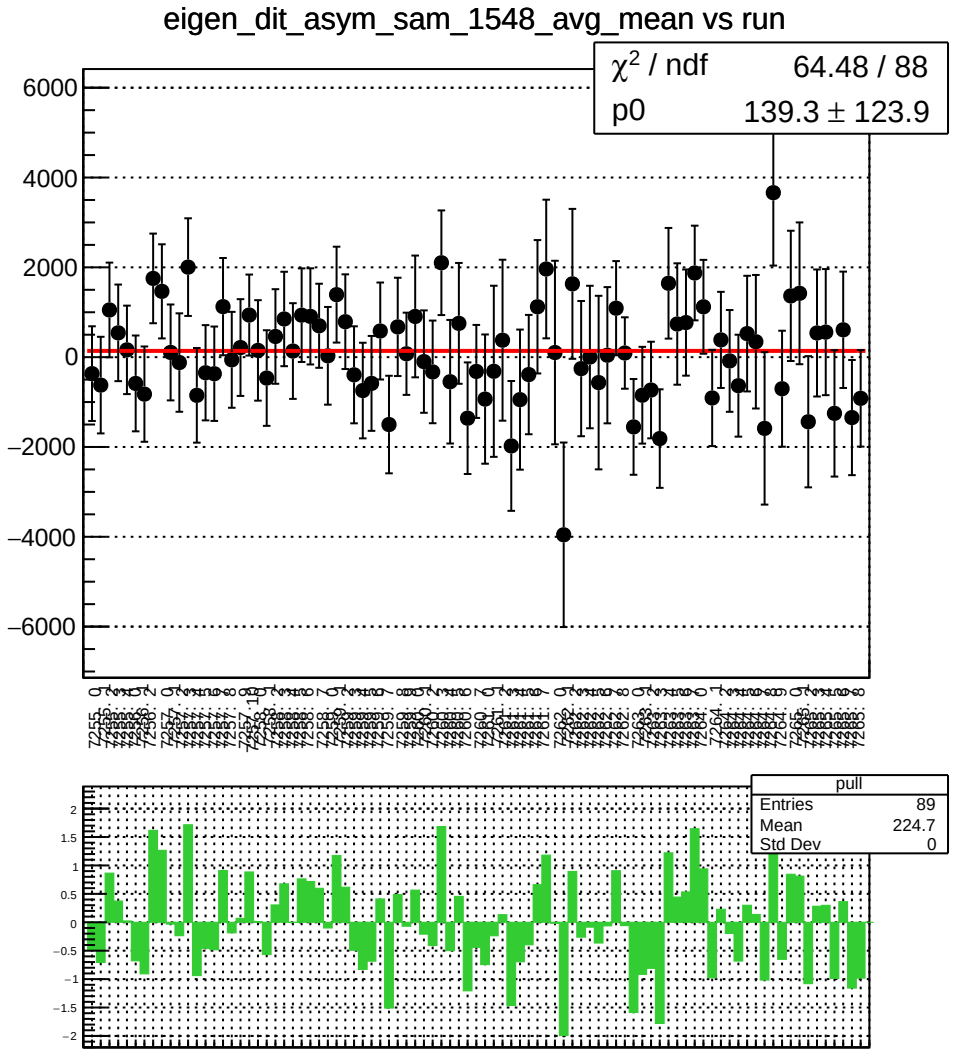

pull1D
Entries 89
Mean −0.01298
Std Dev 0.8511
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

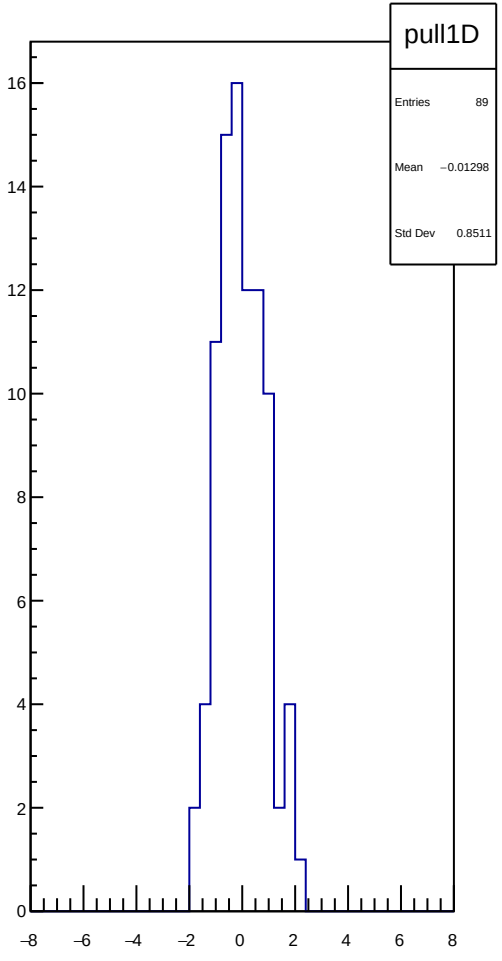

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 4.758e+04 / 88
p0 112.5 ± 0.08762
200
180
160
140
120
100

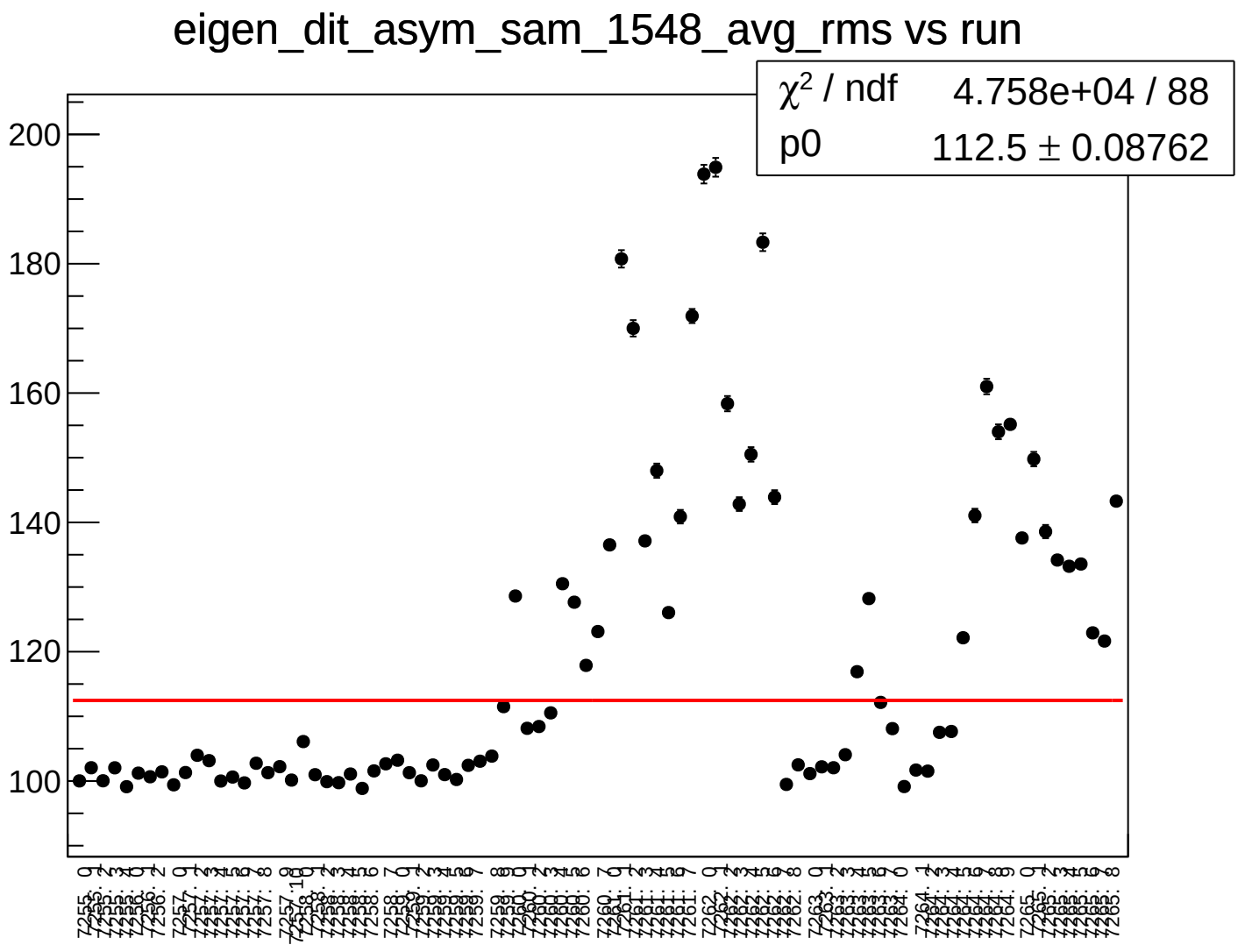

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 105.3 / 88
p0 −700.5 ± 681.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −45.8
Std Dev 0
3
2
1
0
−1
−2

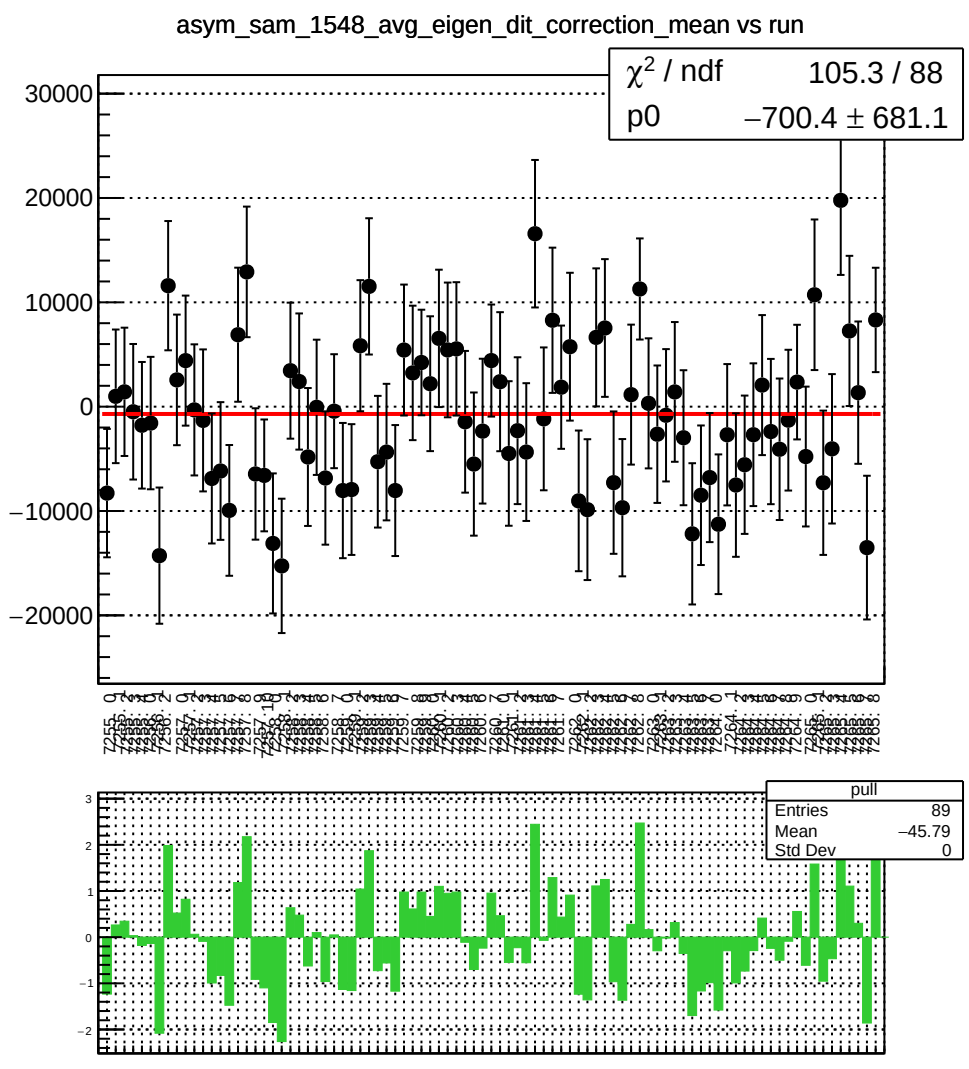

pull1D
Entries 89
Mean −0.01839
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

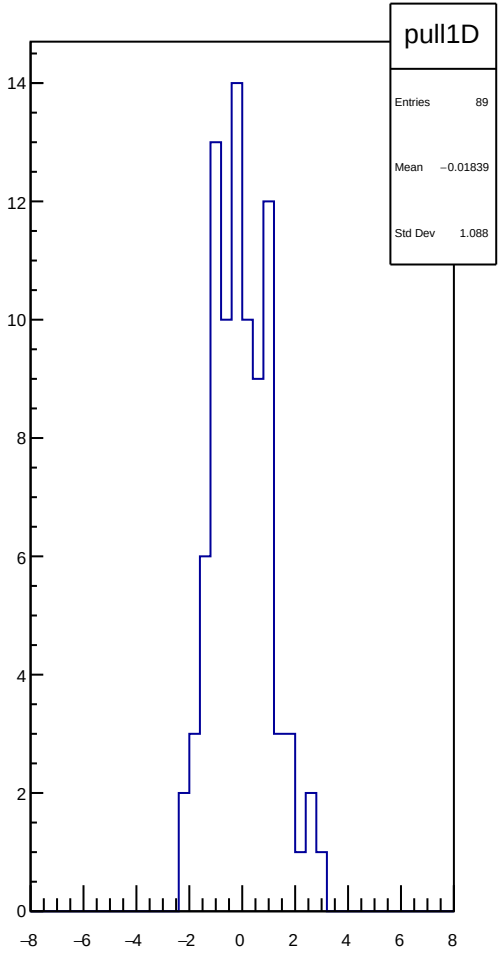

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 2690 / 88
p0 626.5 ± 0.4816
700
680
660
640
620
600
580

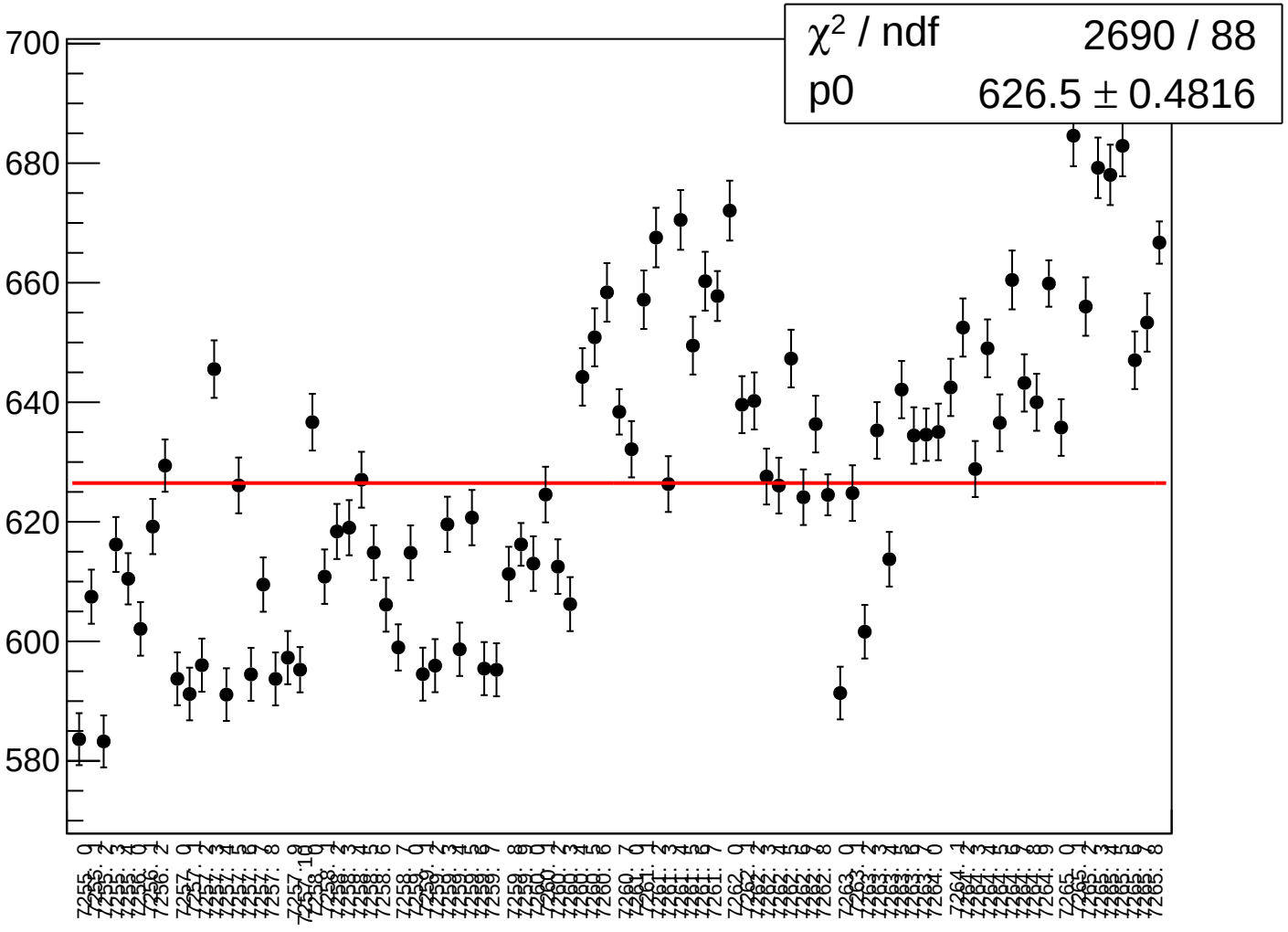

eigen_dit_asym_sam_1548_avg_mean vs run
χ^2 / ndf 64.48 / 88
p0 139.3 ± 123.9
pull
Entries 89
Mean 224.7
Std Dev 0

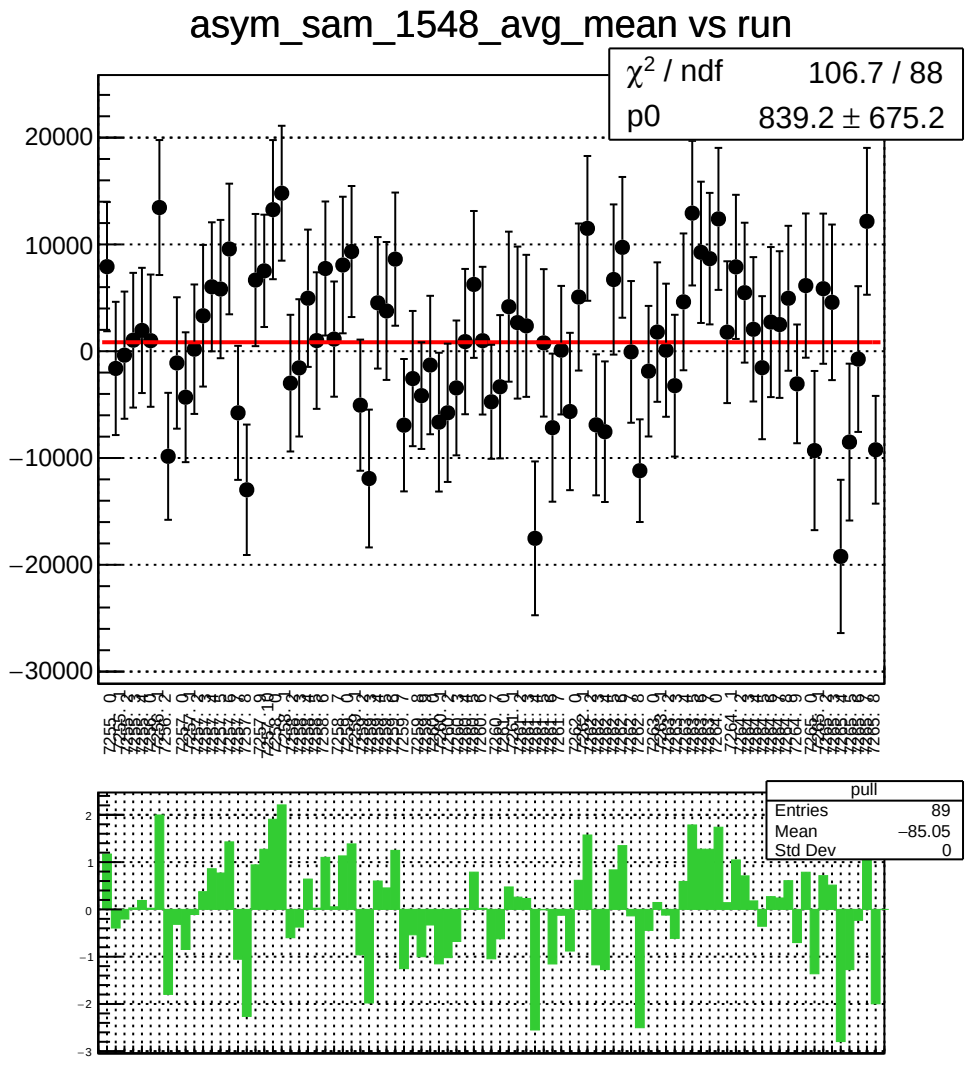

pull1D
Entries 89
Mean −0.01298
Std Dev 0.8511

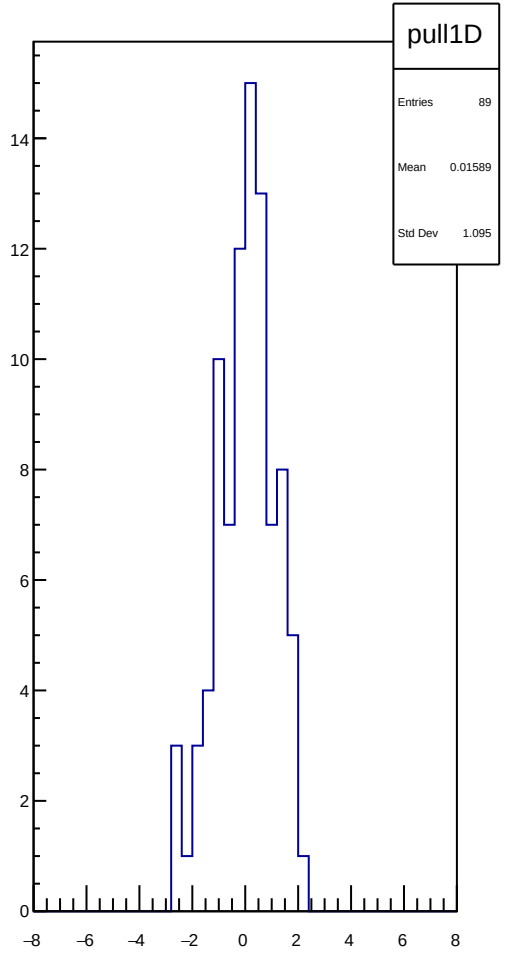

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 4.758e+04 / 88
p0 112.5 ± 0.08762
200
180
160
140
120
100

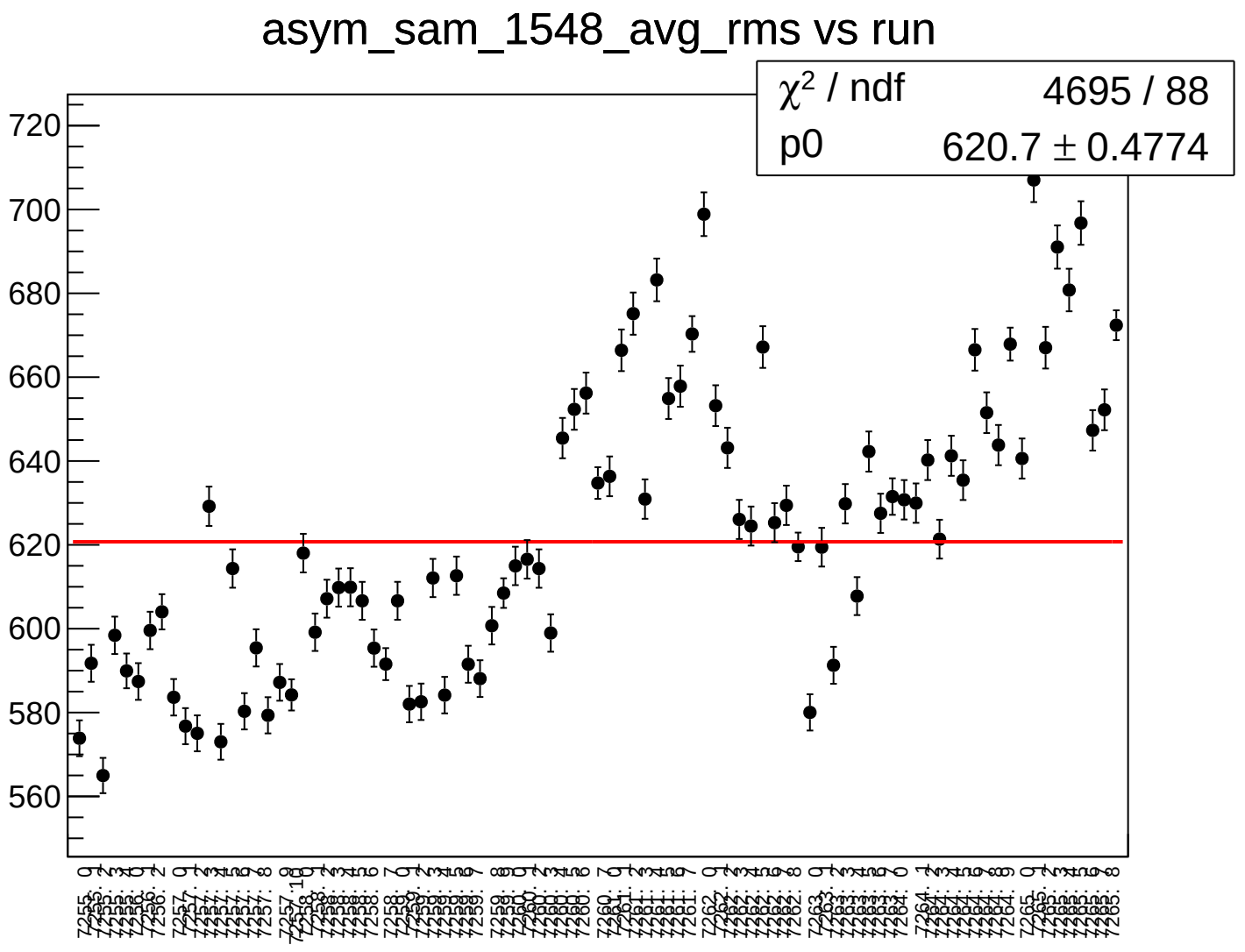

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 105.3 / 88
p0 −700.4 ± 681.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −45.79
Std Dev 0
3
2
1
0
−1
−2

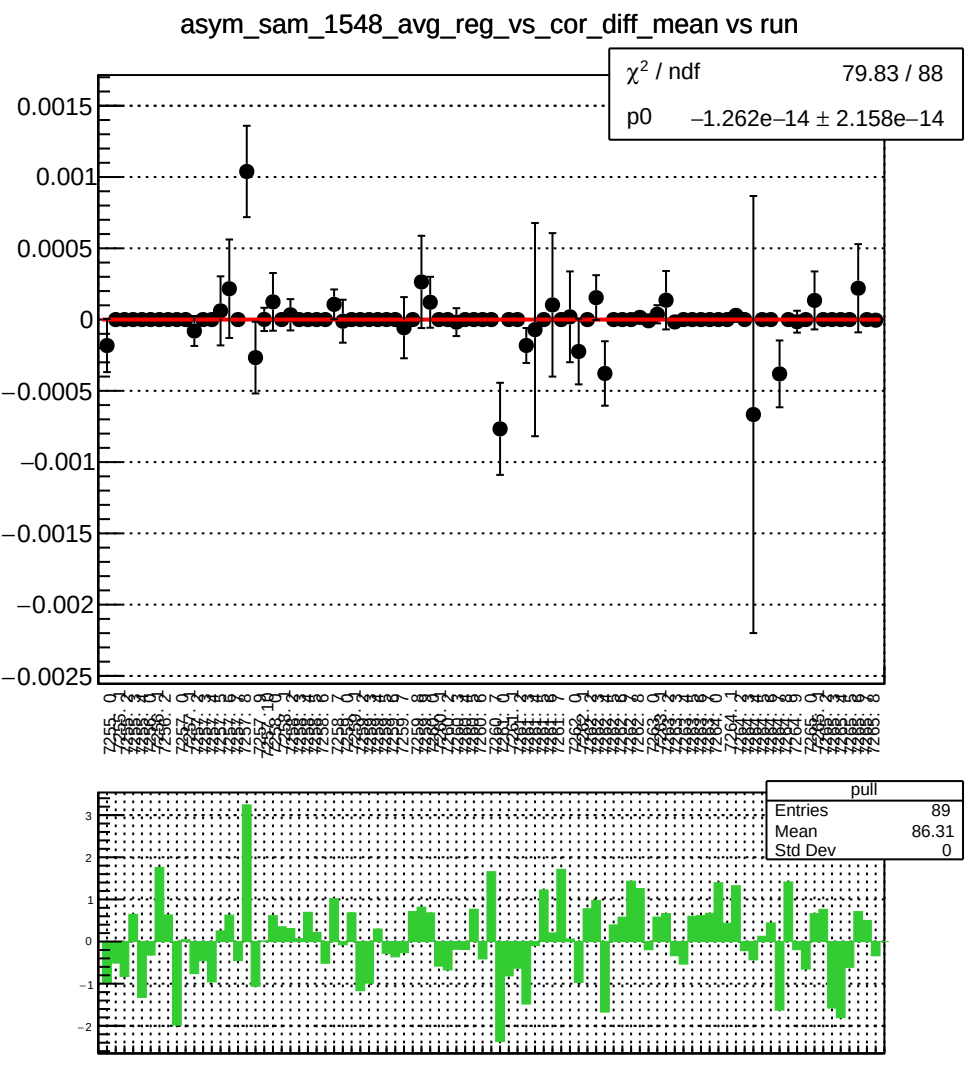

pull1D
Entries 89
Mean −0.01839
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

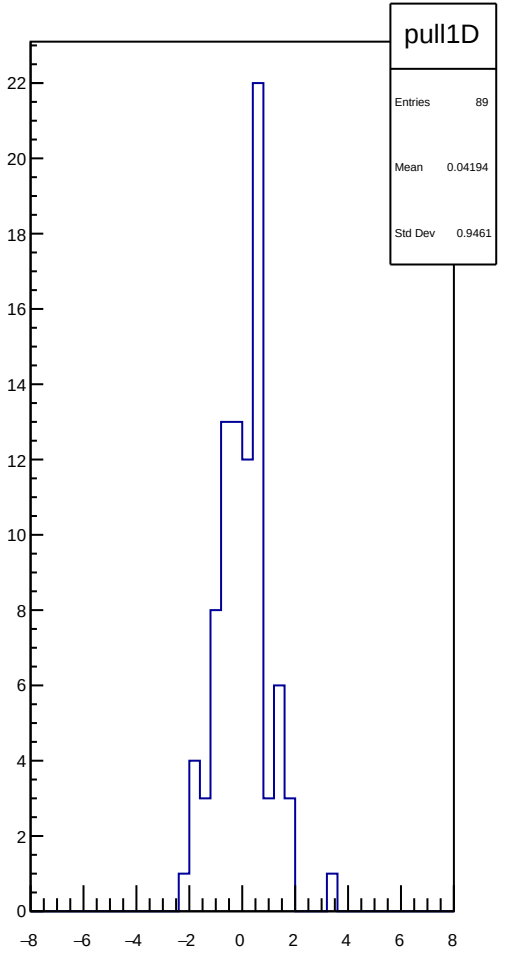

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 2690 / 88
p0 626.5 ± 0.4816
700
680
660
640
620
600
580

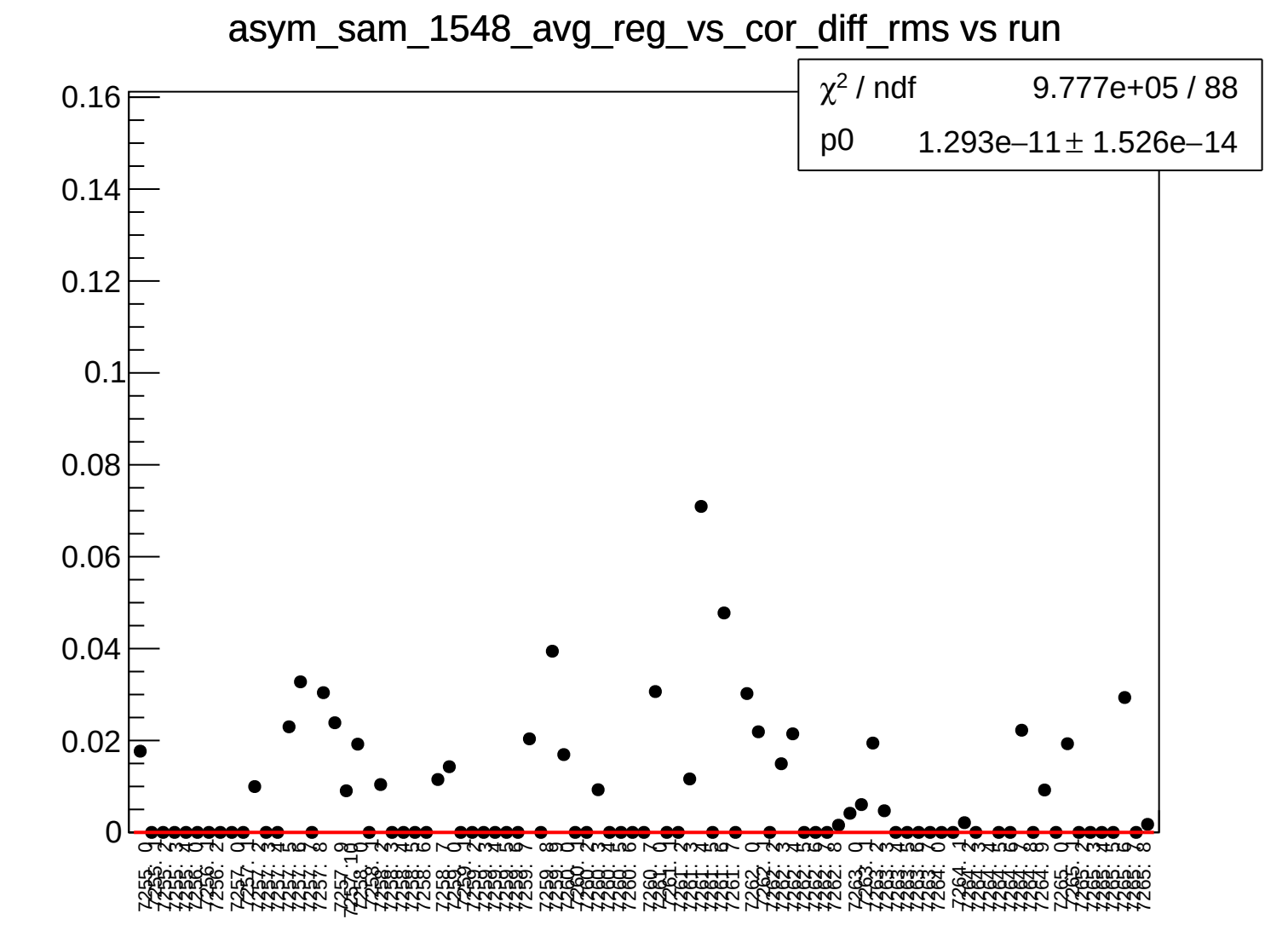

asym_sam_1548_avg_mean vs run
χ² / ndf 106.7 / 88
p0 839.2 ± 675.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −85.05
Std Dev 0
2
1
0
−1
−2
−3

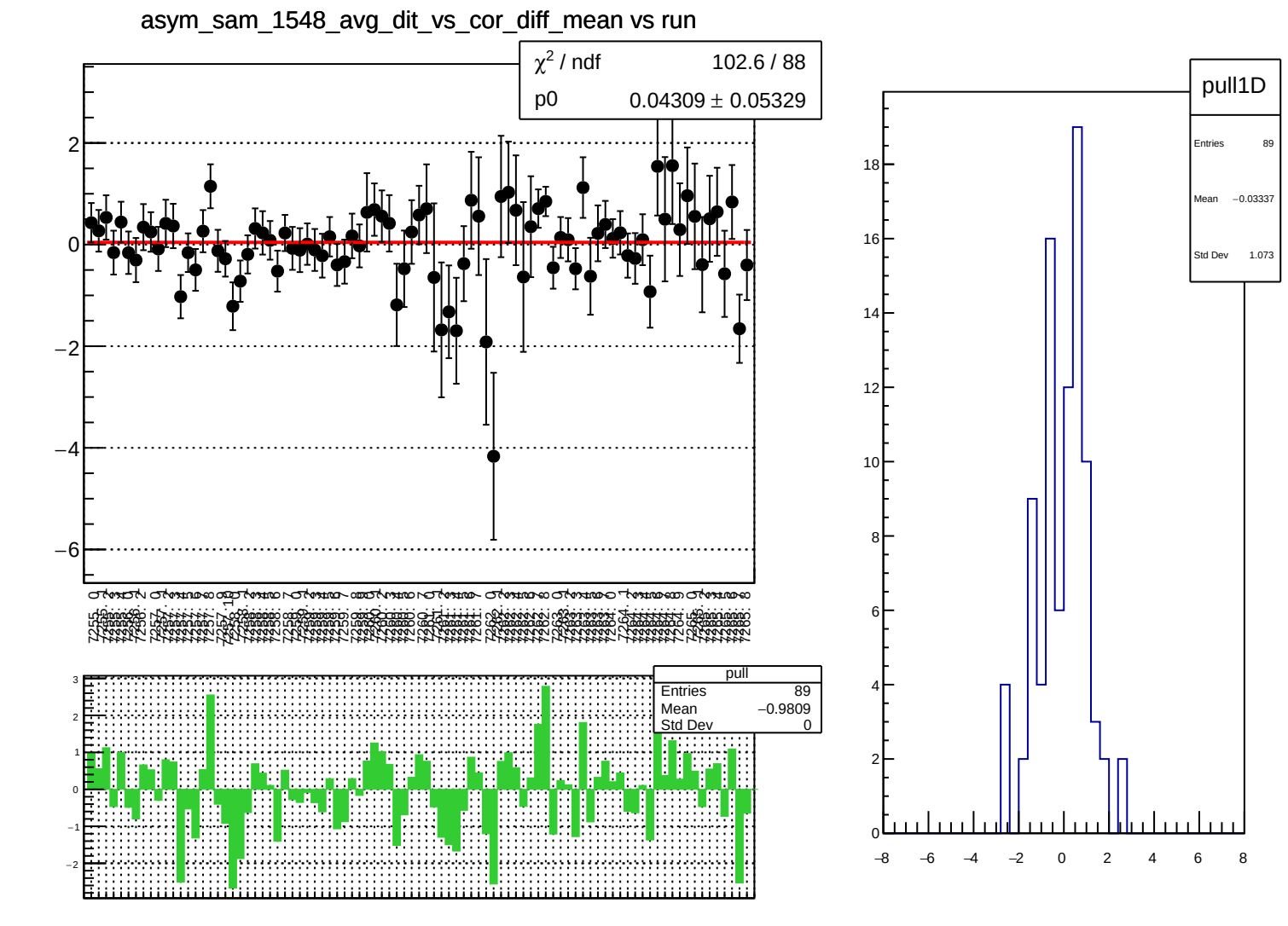

pull1D
Entries 89
Mean 0.01589
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

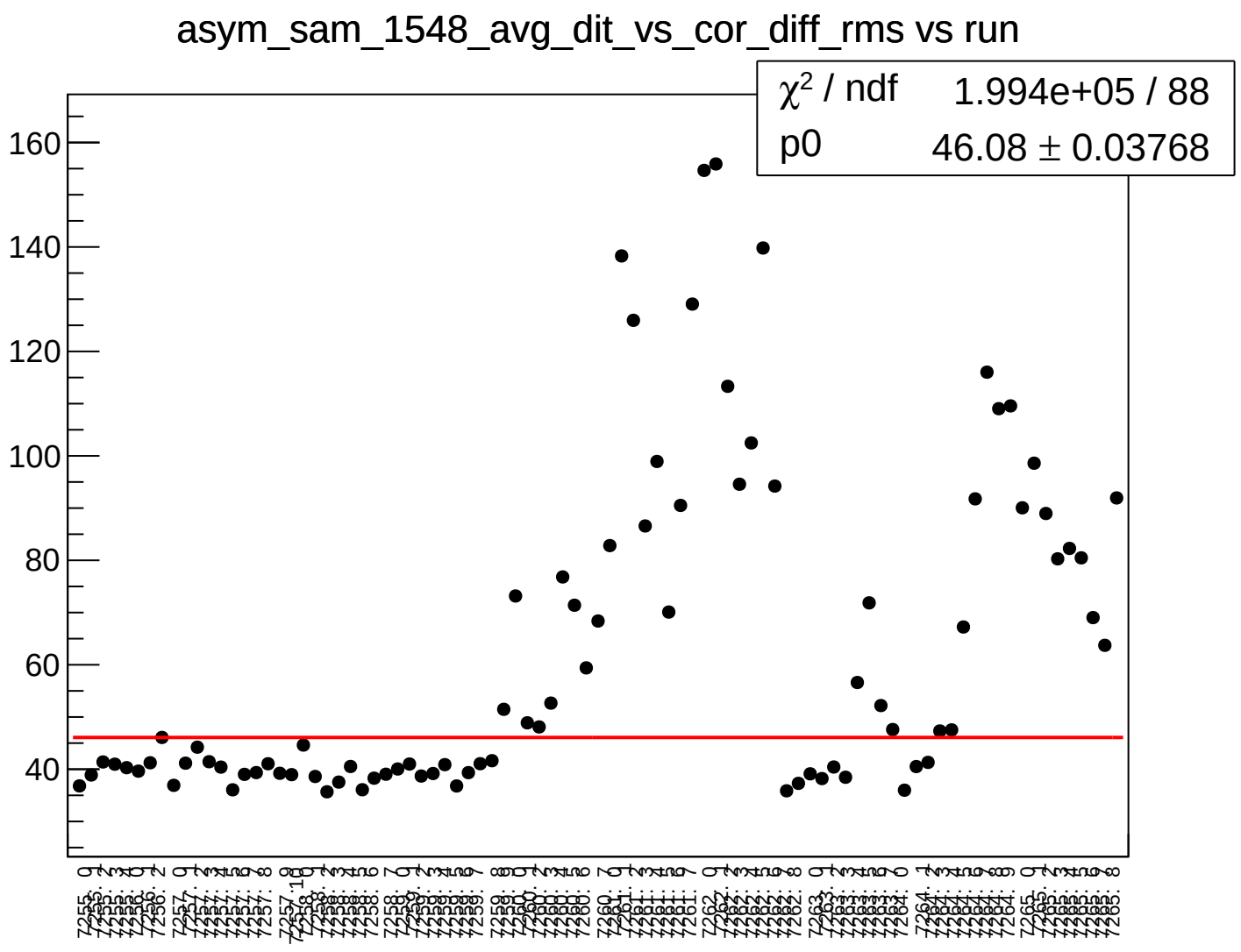

asym_sam_1548_avg_rms vs run
χ² / ndf 4695 / 88
p0 620.7 ± 0.4774
720
700
680
660
640
620
600
580
560

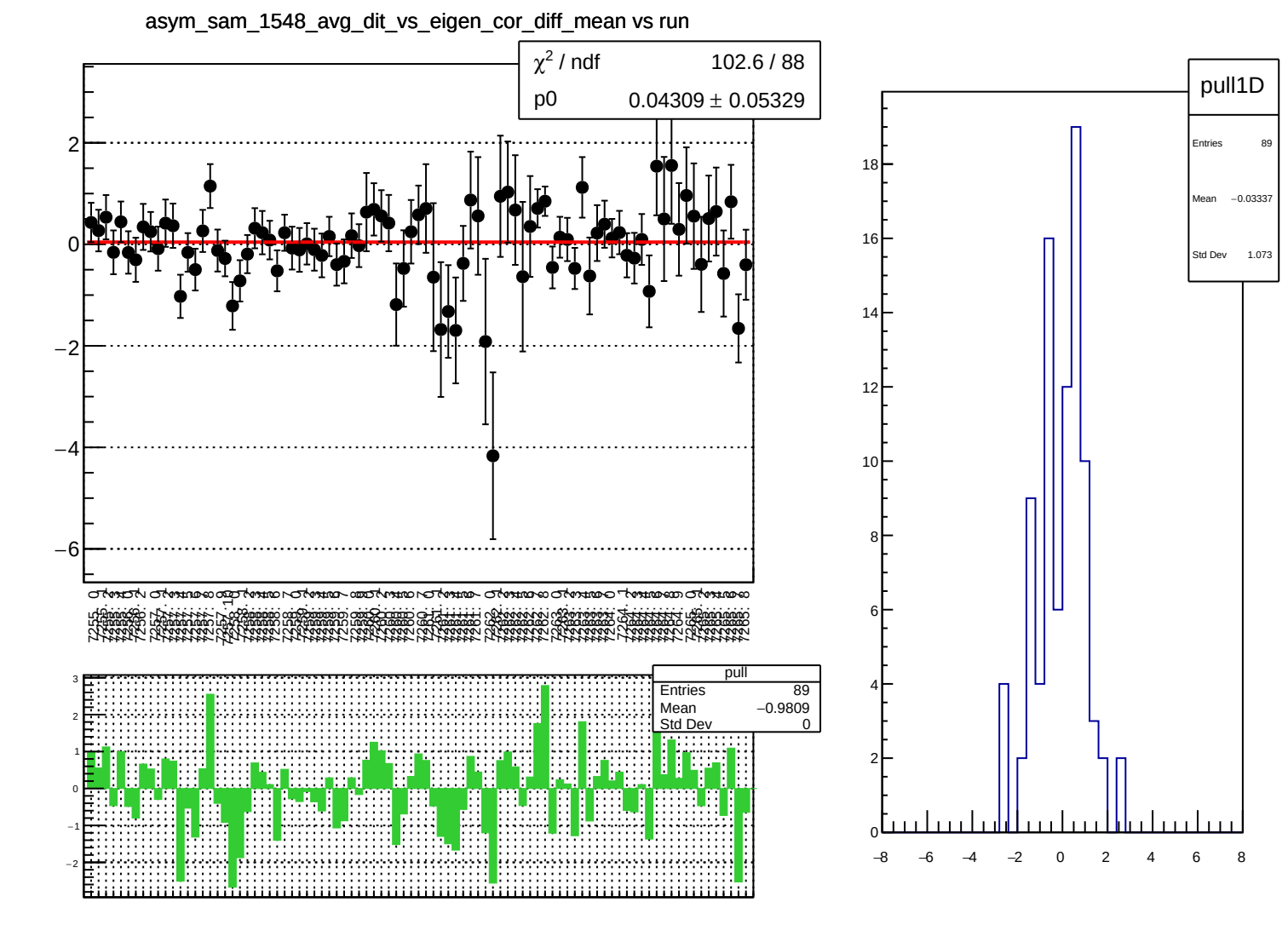

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.83 / 88
p0 −1.262e−14 ± 2.158e−14
pull
Entries 89
Mean 86.31
Std Dev 0

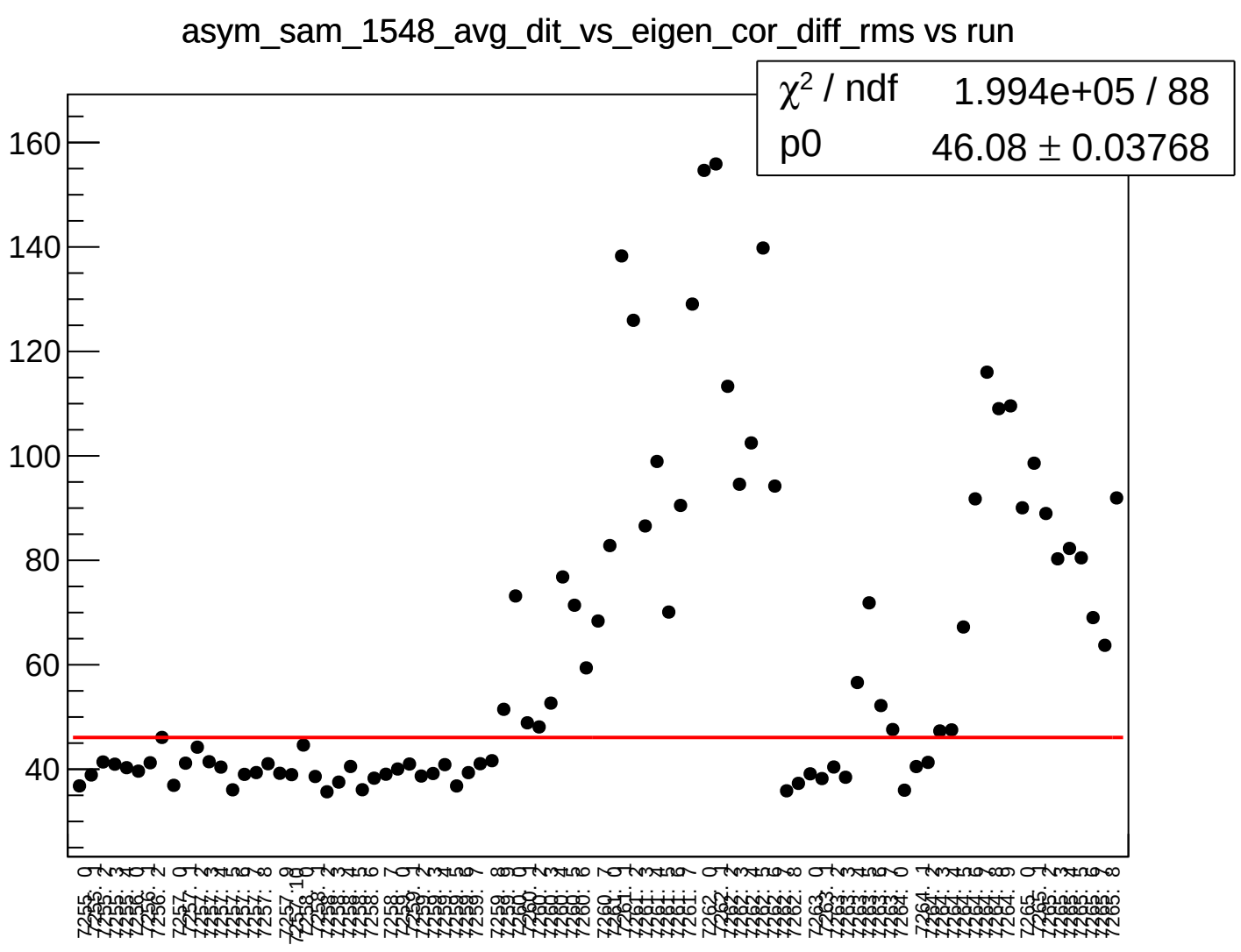

pull1D
Entries 89
Mean 0.04194
Std Dev 0.9461

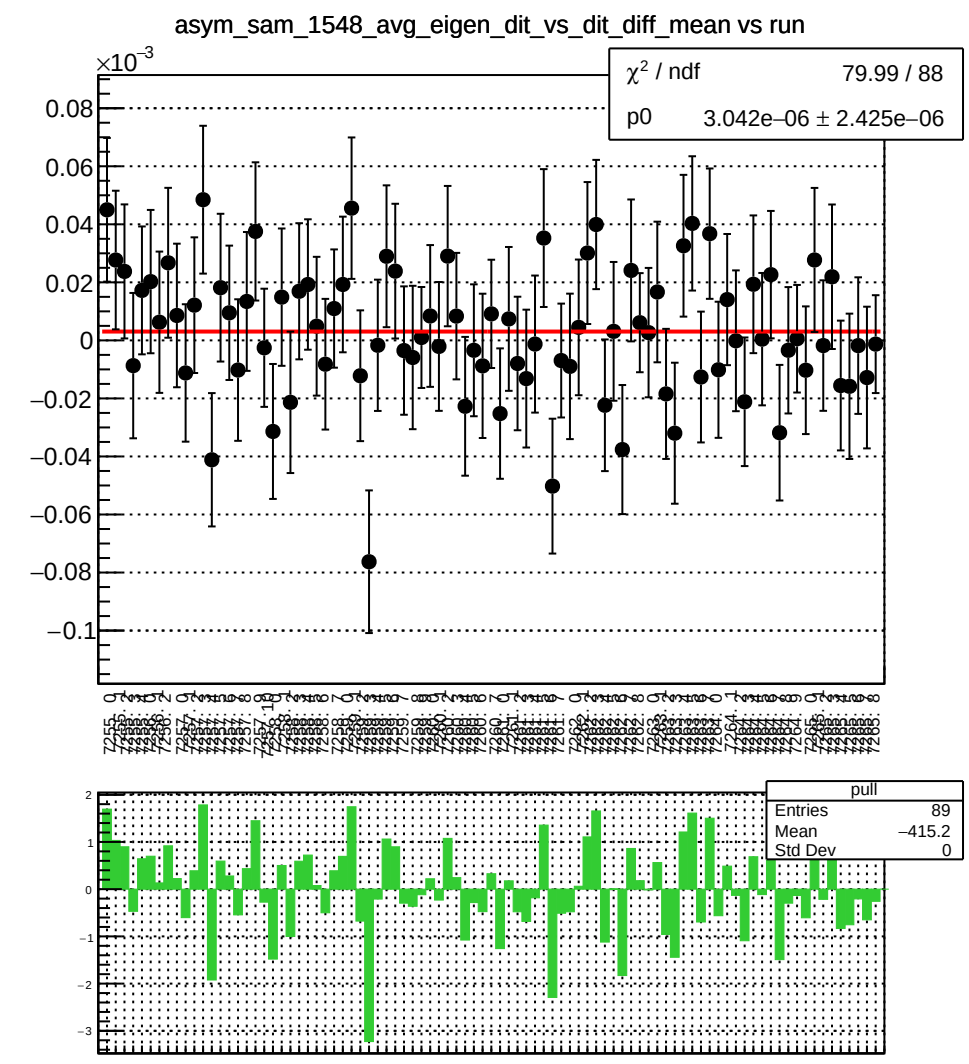

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.777e+05 / 88
p0 1.293e−11 ± 1.526e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

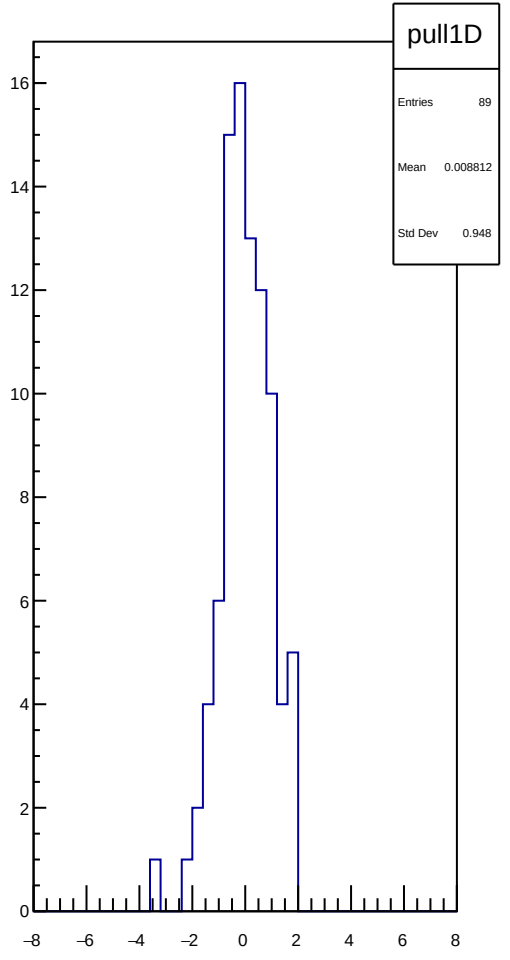

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.6 / 88
p0 0.04309 ± 0.05329
pull
Entries 89
Mean −0.9809
Std Dev 0
pull1D
Entries 89
Mean −0.03337
Std Dev 1.073

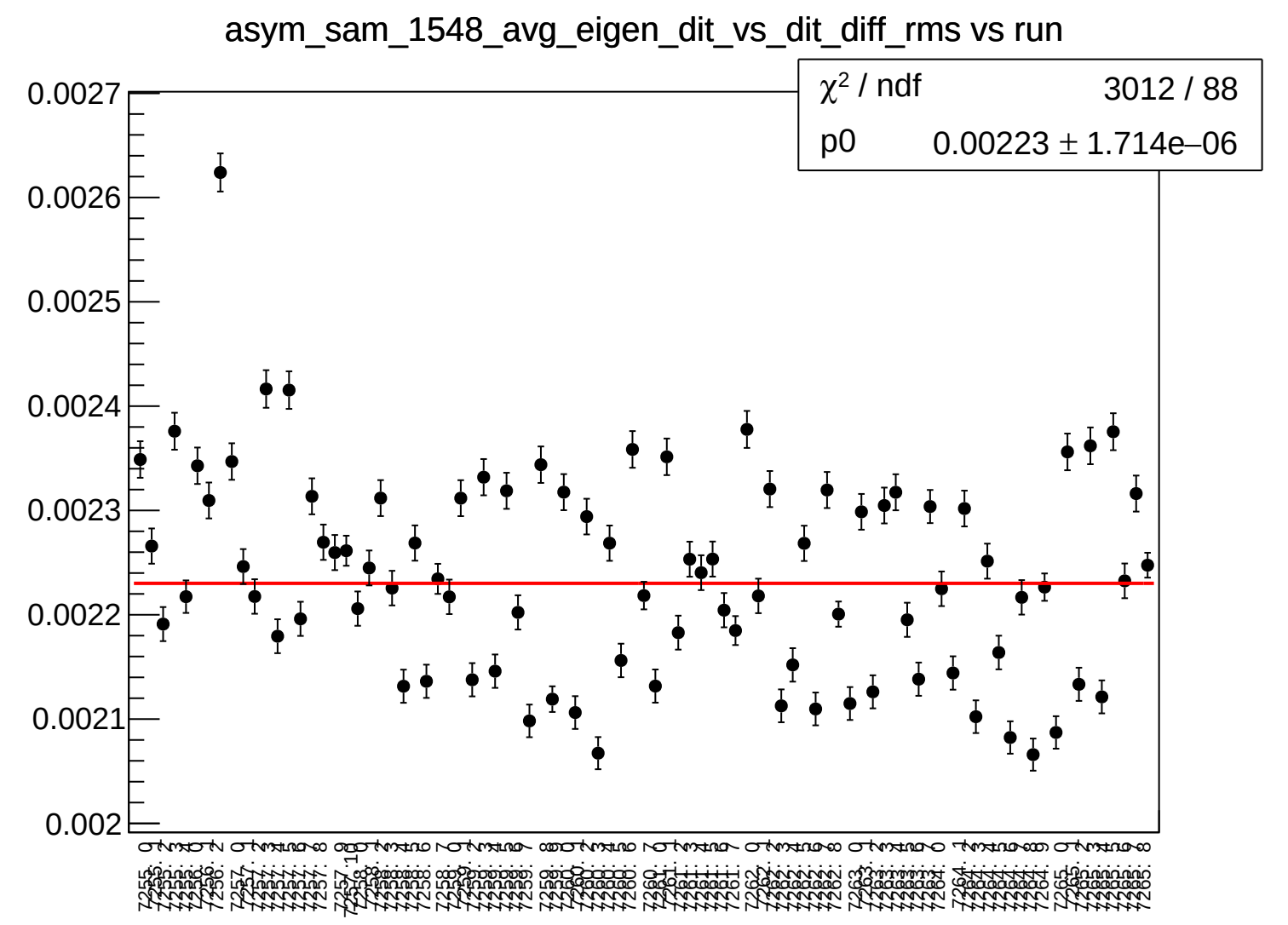

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.994e+05 / 88
p0 46.08 ± 0.03768
160
140
120
100
80
60
40

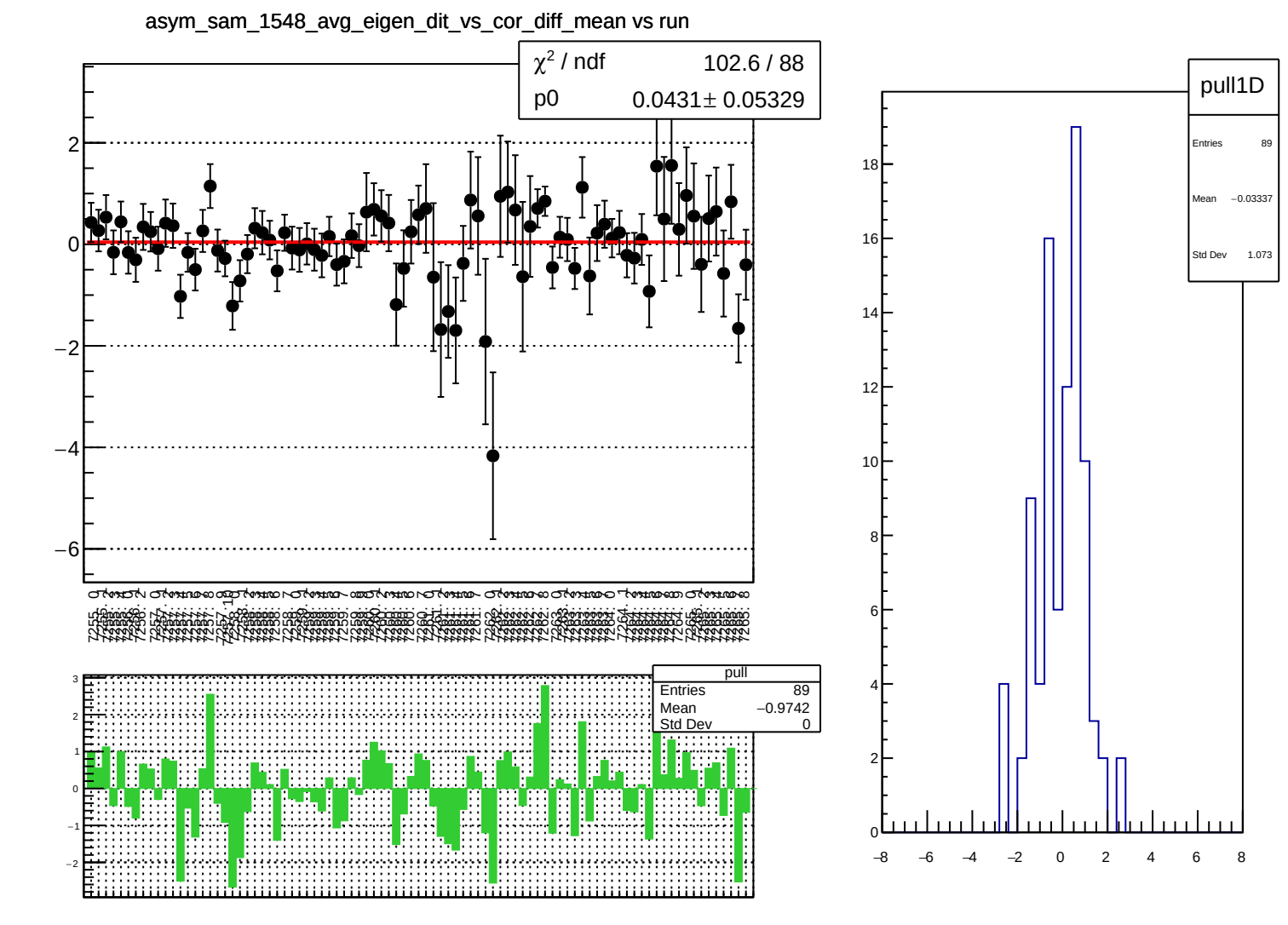

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.6 / 88
p0 0.04309 ± 0.05329
pull
Entries 89
Mean −0.9809
Std Dev 0
pull1D
Entries 89
Mean −0.03337
Std Dev 1.073

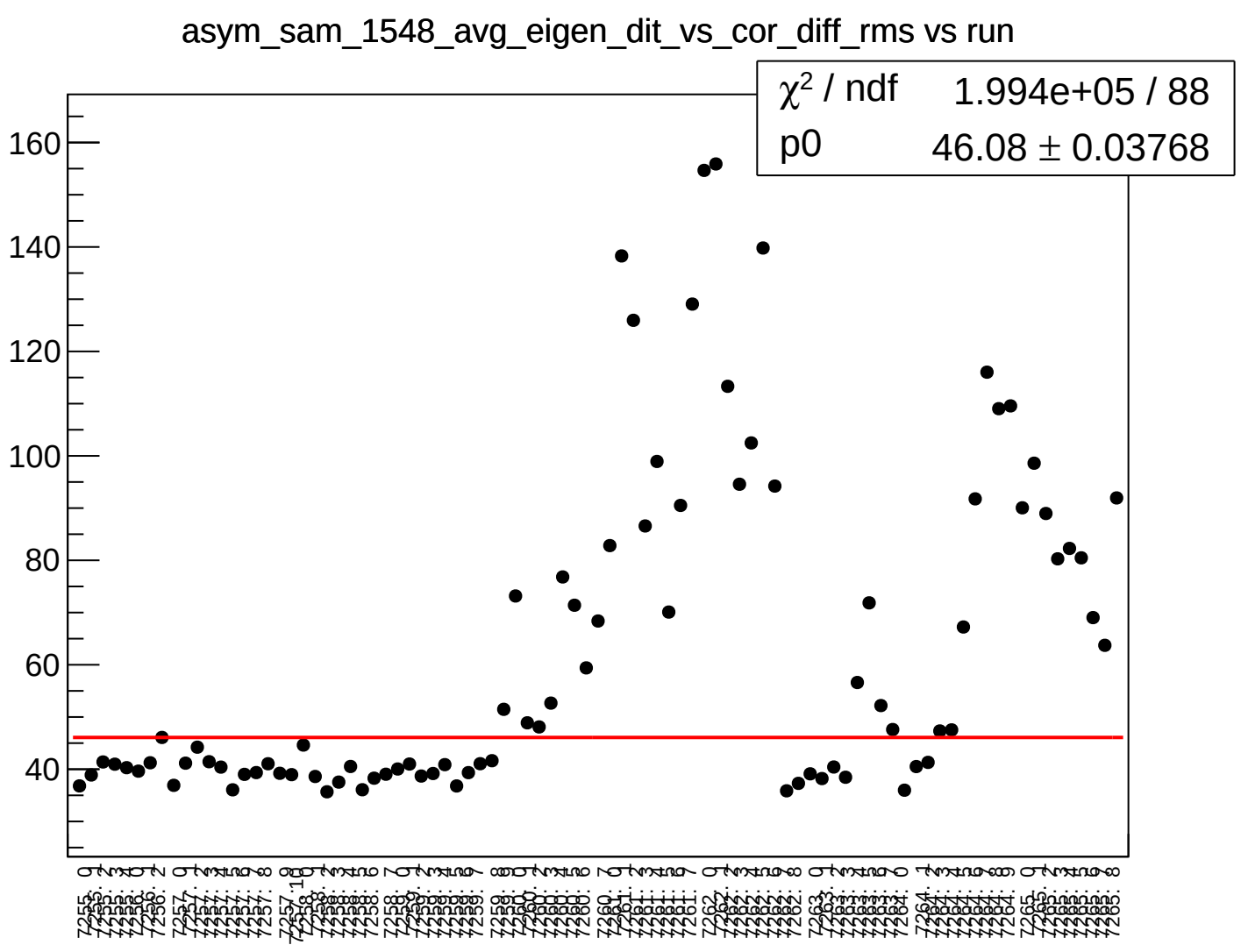

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.994e+05 / 88
p0 46.08 ± 0.03768
160
140
120
100
80
60
40

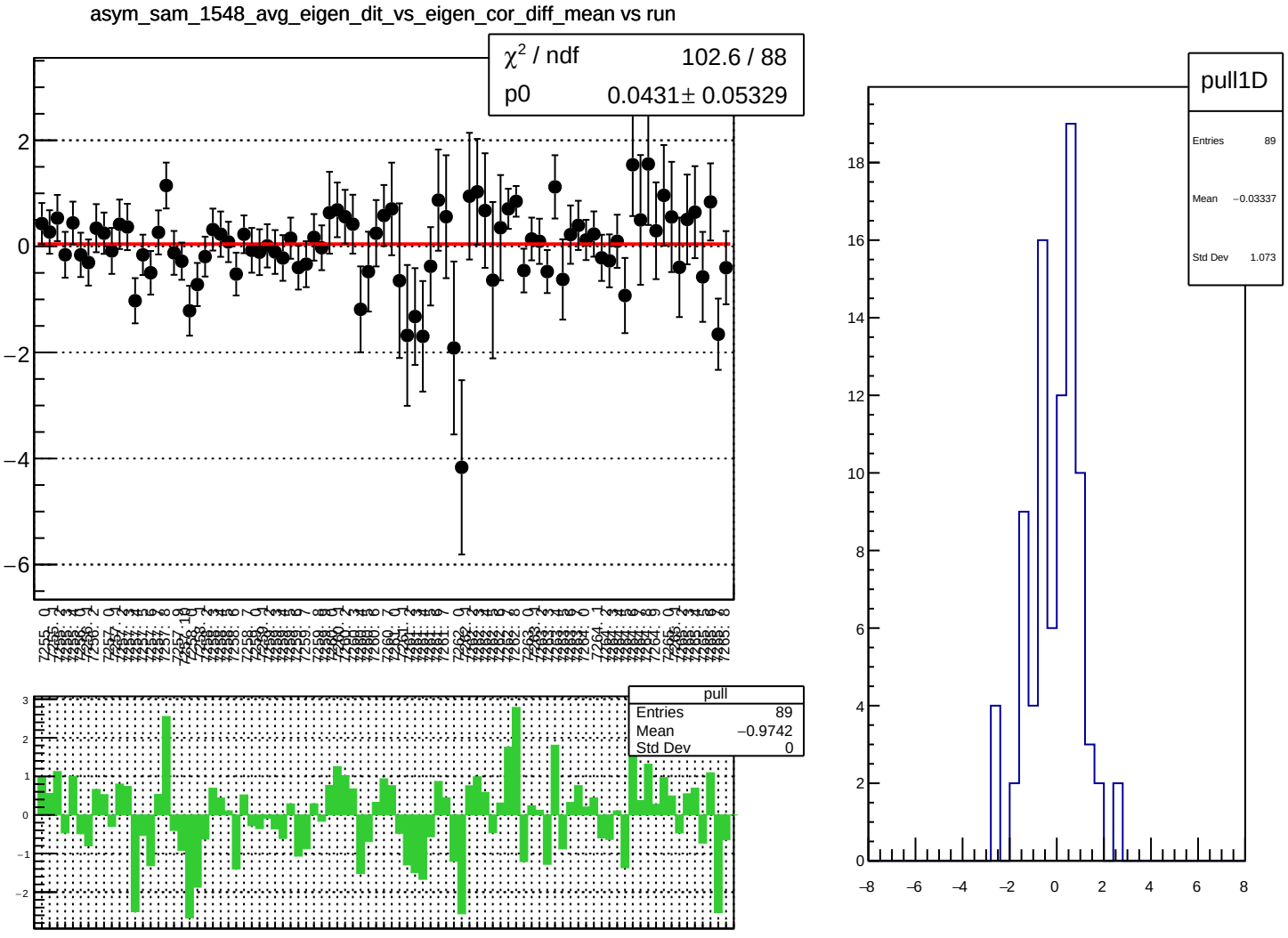

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.99 / 88
p0 3.042e−06 ± 2.425e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 89
Mean −415.2
Std Dev 0
2
1
0
−1
−2
−3

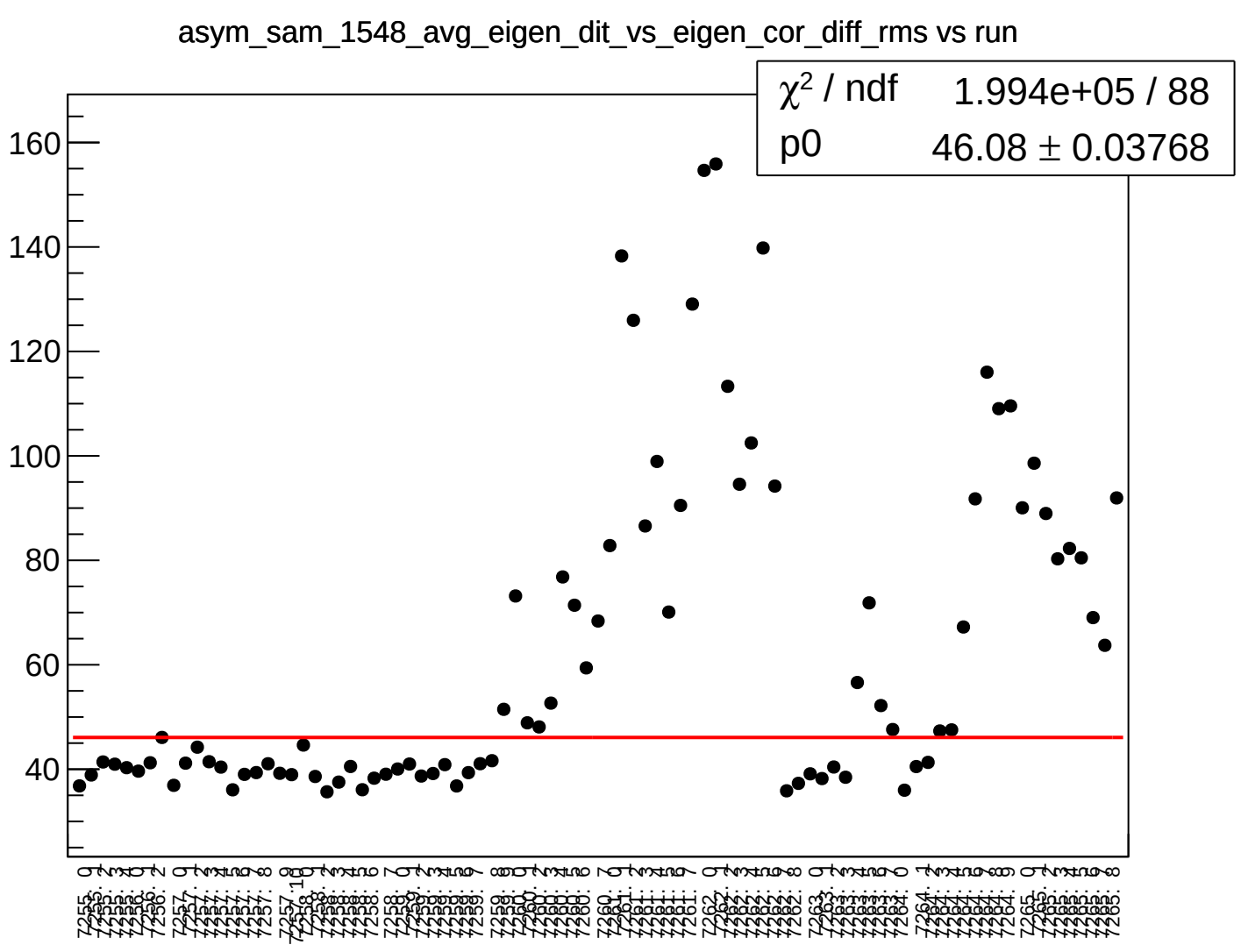

pull1D
Entries 89
Mean 0.008812
Std Dev 0.948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

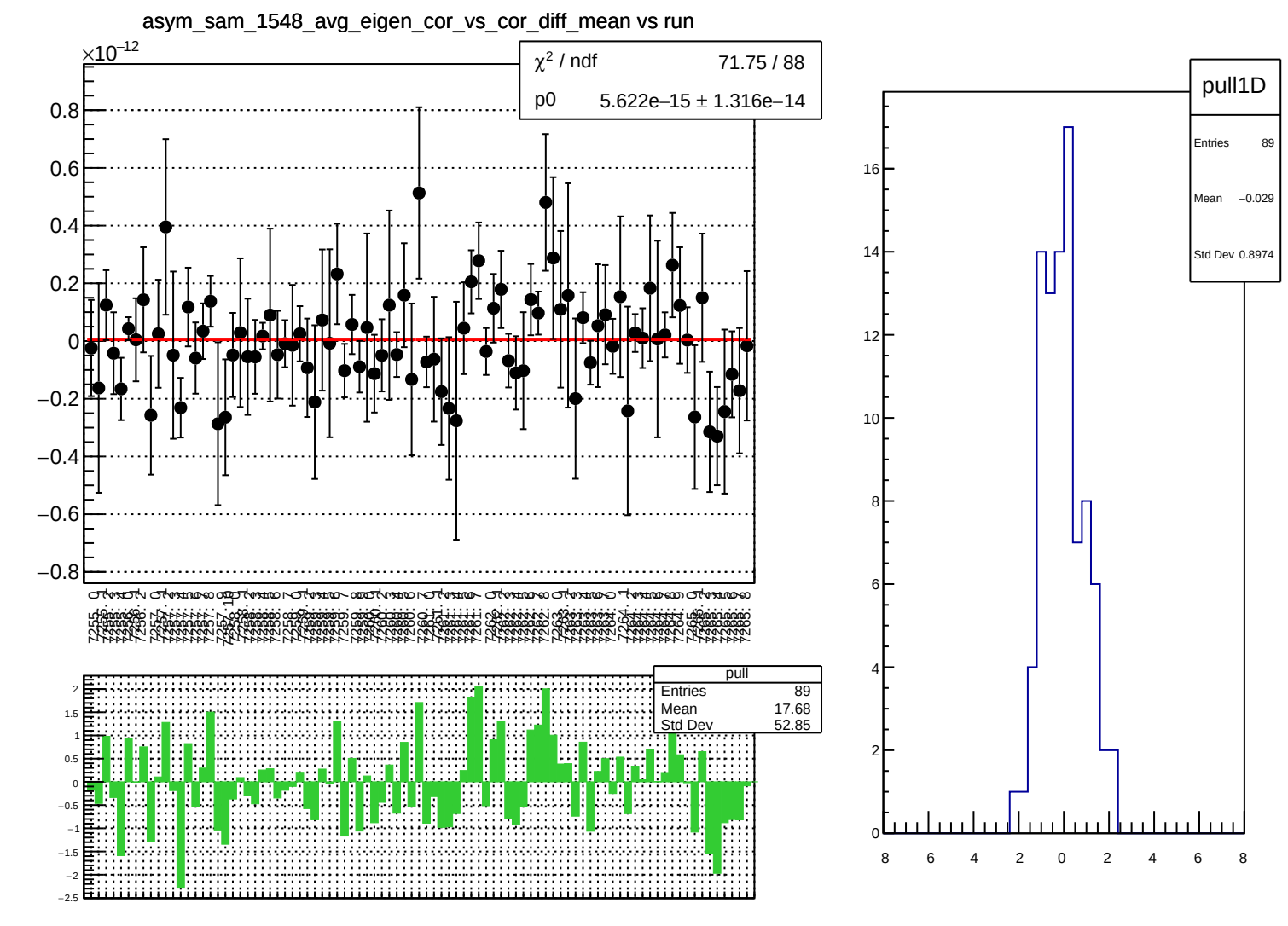

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3012 / 88
p0 0.00223 ± 1.714e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

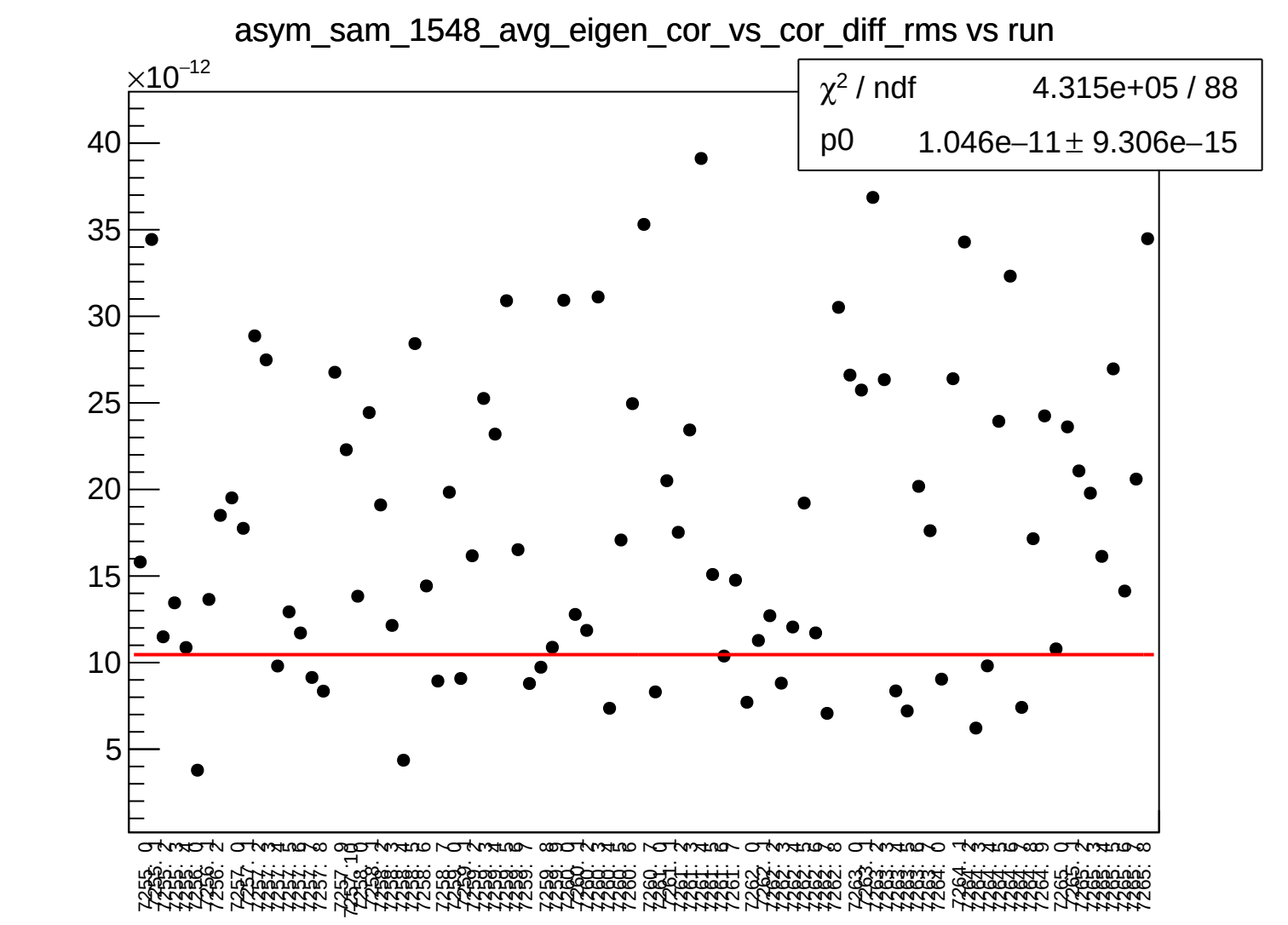

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.6 / 88
p0 0.0431± 0.05329
pull
Entries 89
Mean −0.9742
Std Dev 0
pull1D
Entries 89
Mean −0.03337
Std Dev 1.073

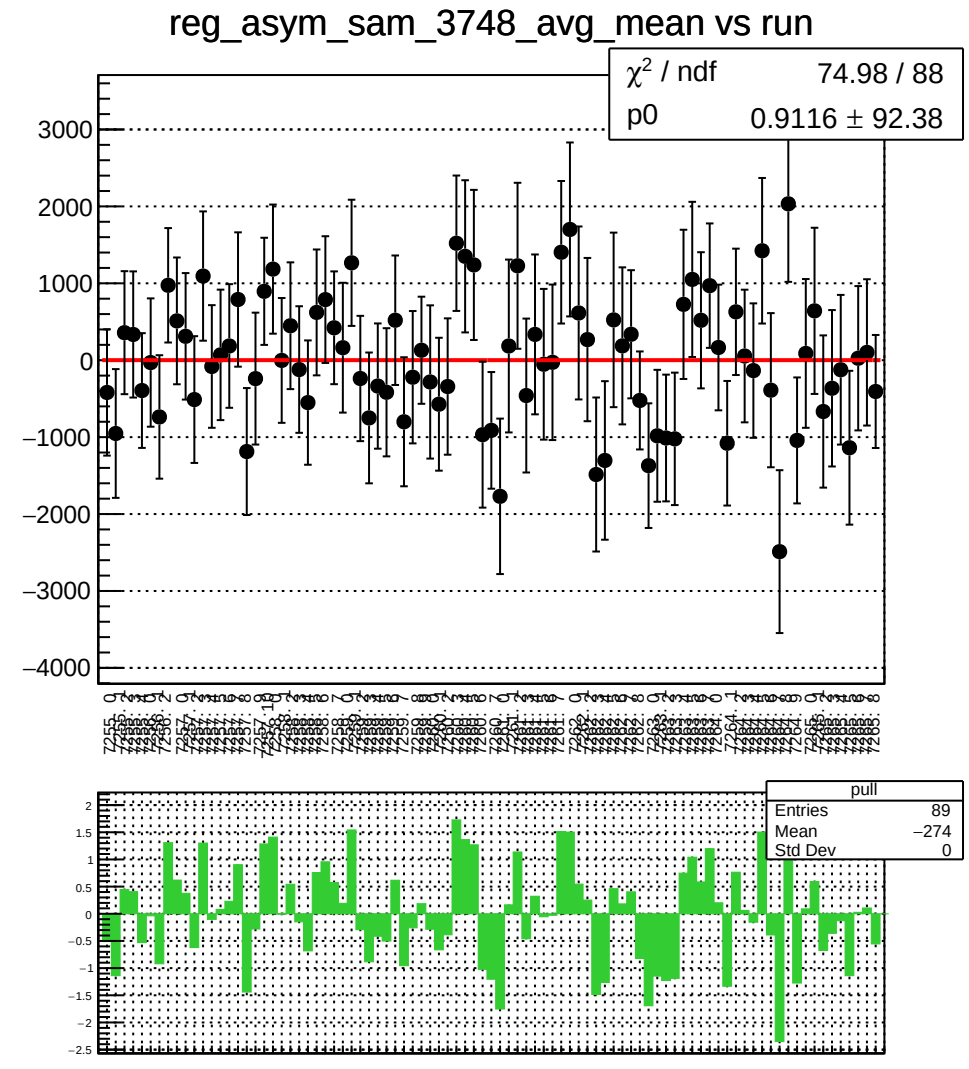

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.994e+05 / 88
p0 46.08 ± 0.03768
160
140
120
100
80
60
40

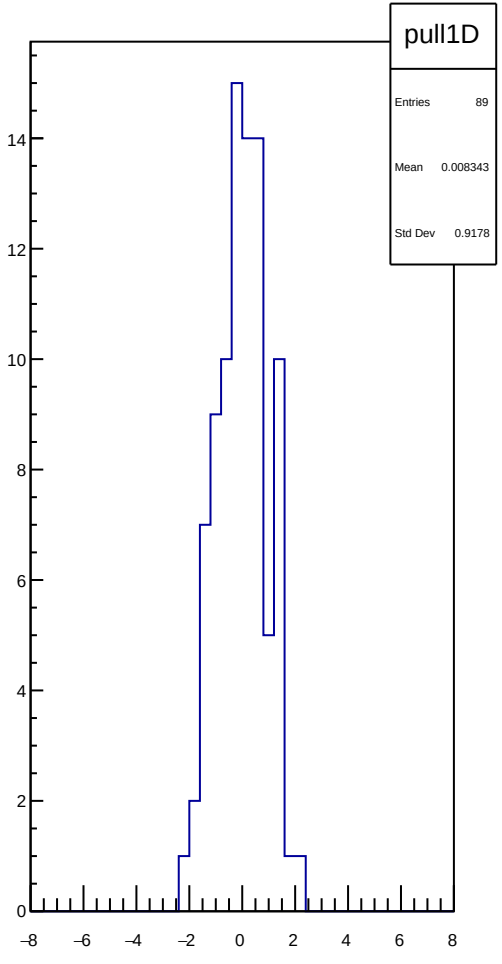

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.6 / 88
p0 0.0431± 0.05329
pull
Entries 89
Mean −0.9742
Std Dev 0
pull1D
Entries 89
Mean −0.03337
Std Dev 1.073

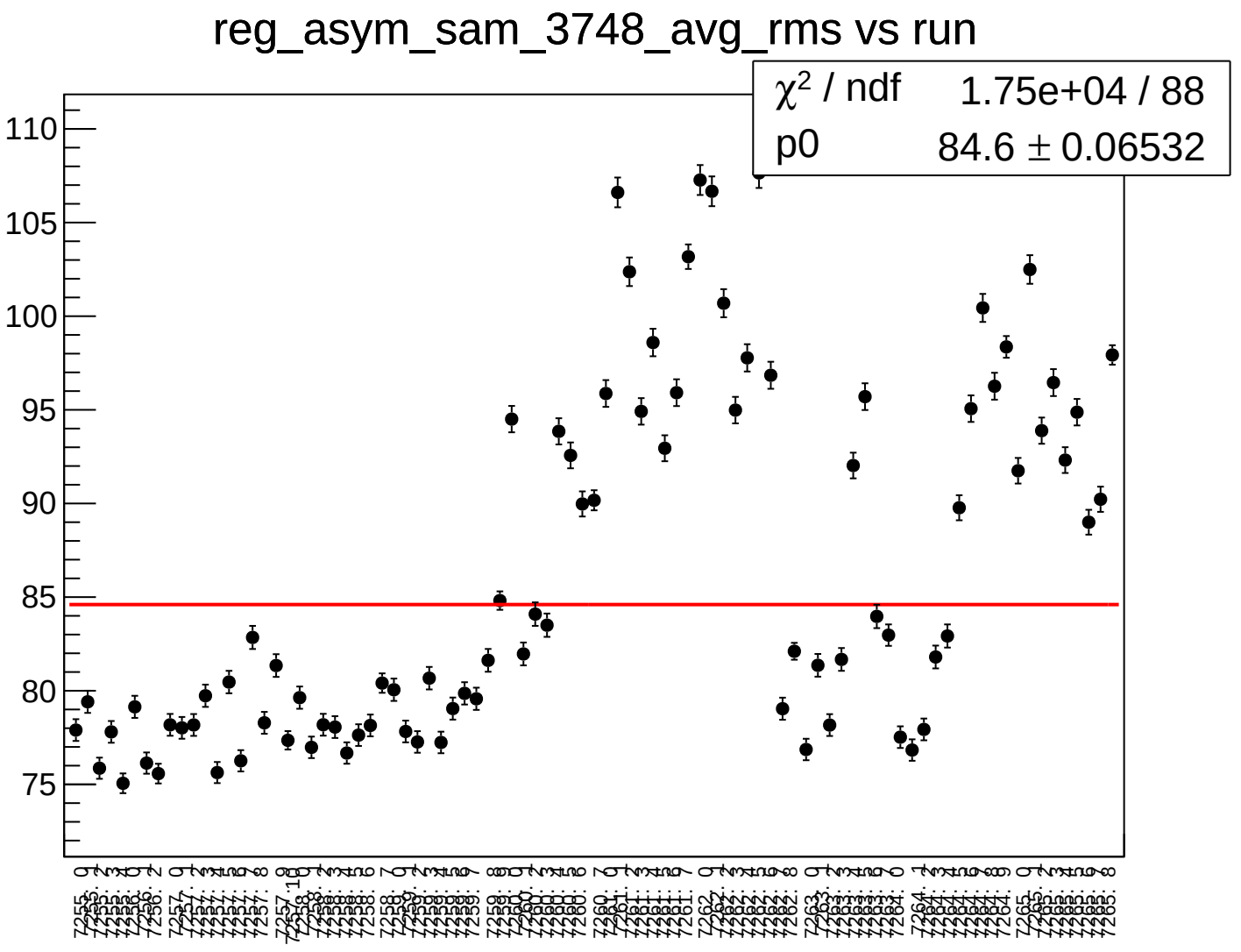

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.994e+05 / 88
p0 46.08 ± 0.03768
160
140
120
100
80
60
40

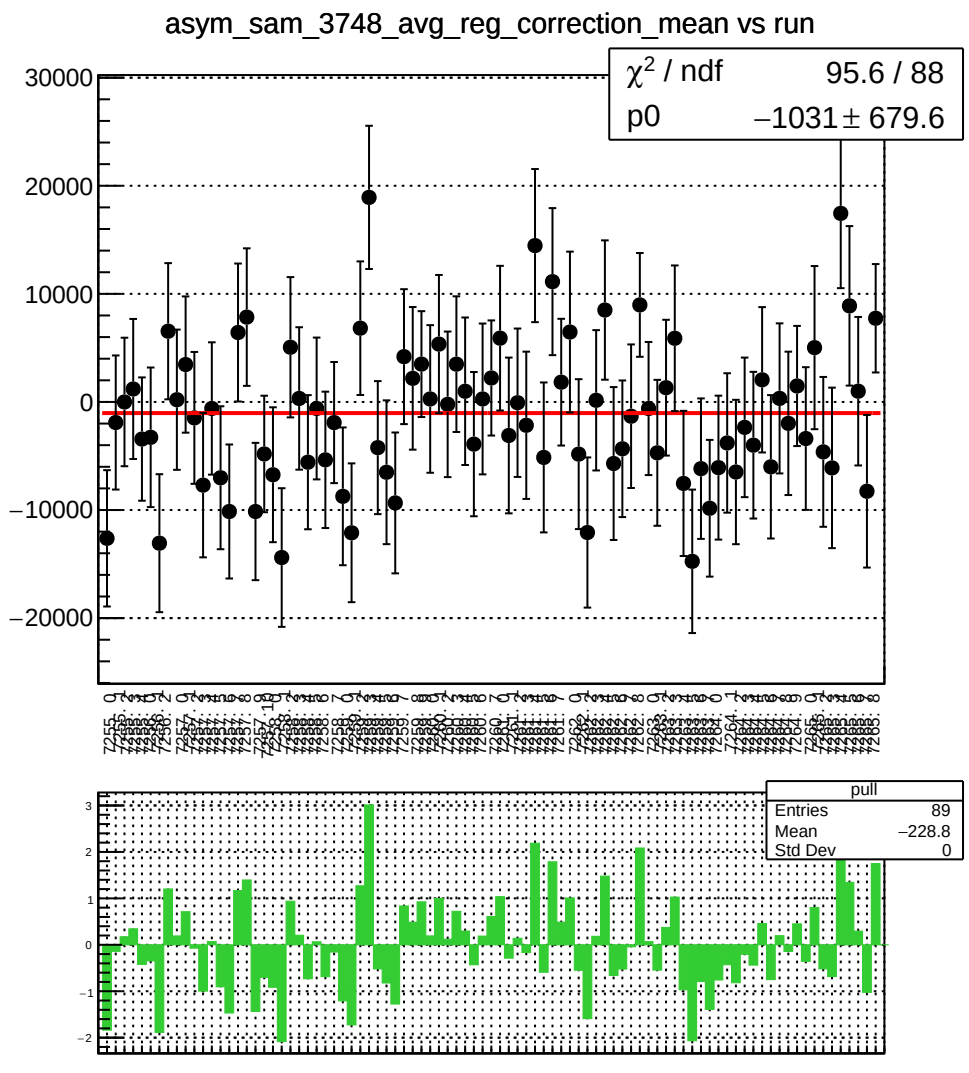

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.75 / 88
p0 5.622e−15 ± 1.316e−14
pull
Entries 89
Mean 17.68
Std Dev 52.85
pull1D
Entries 89
Mean −0.029
Std Dev 0.8974

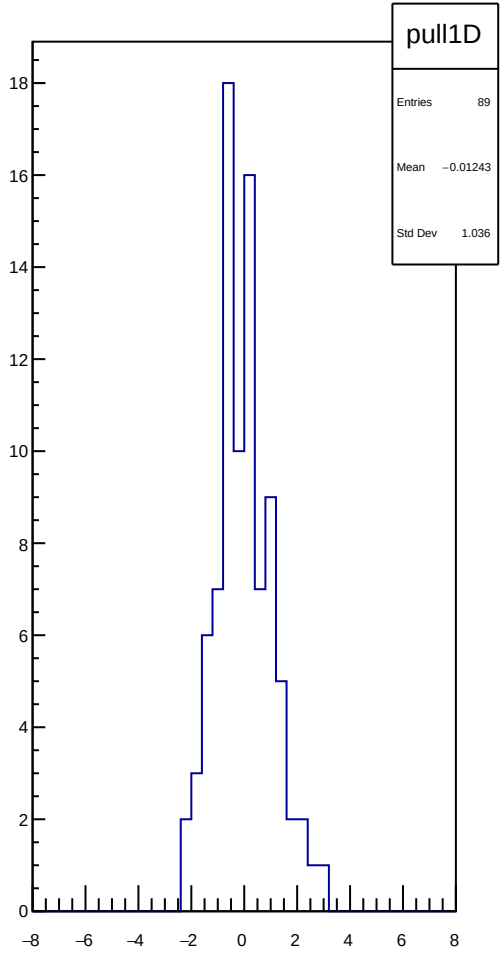

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.315e+05 / 88
p0 1.046e−11 ± 9.306e−15
40
35
30
25
20
15
10
5

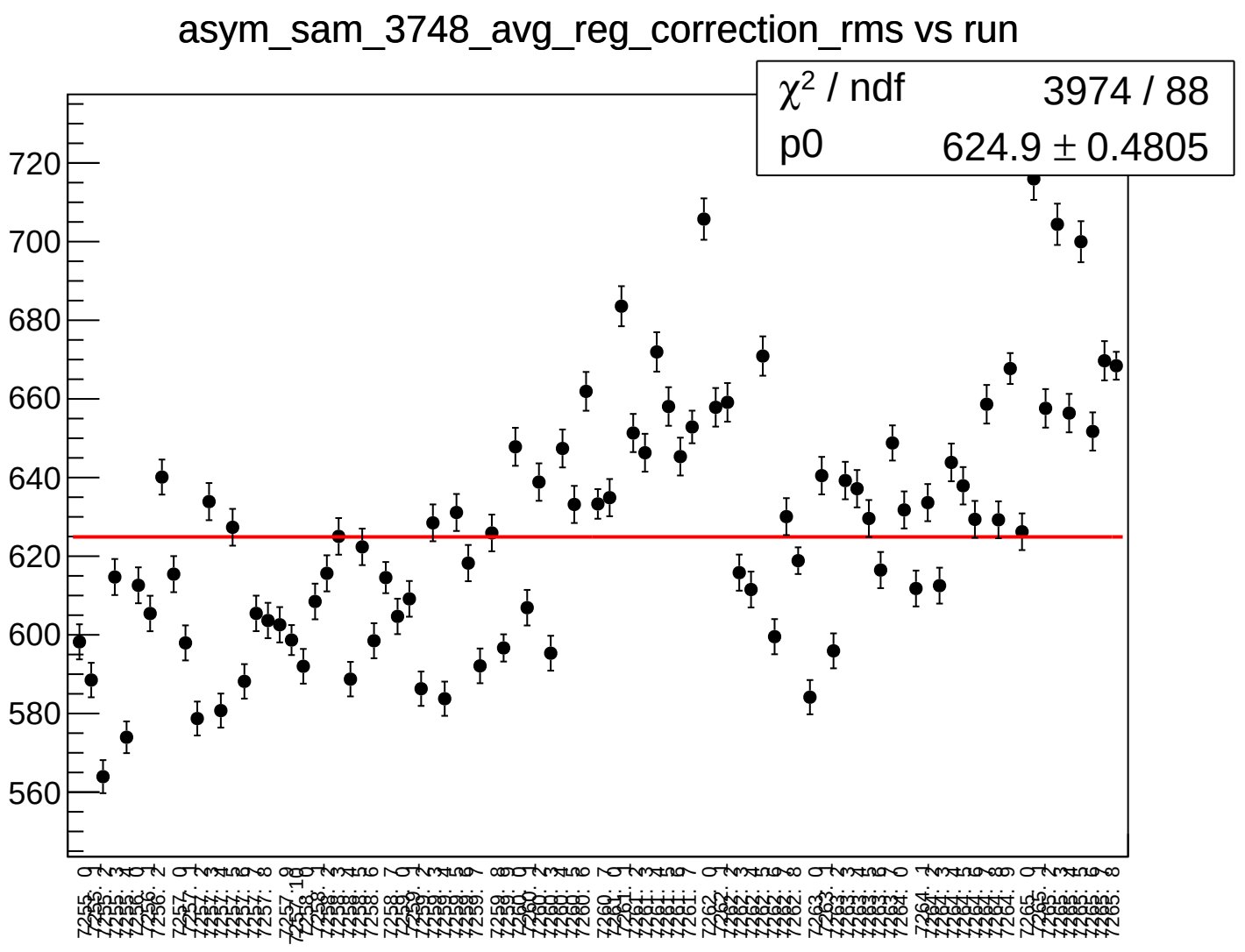

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 74.98 / 88
p0 0.9116 ± 92.38
pull
Entries 89
Mean −274
Std Dev 0

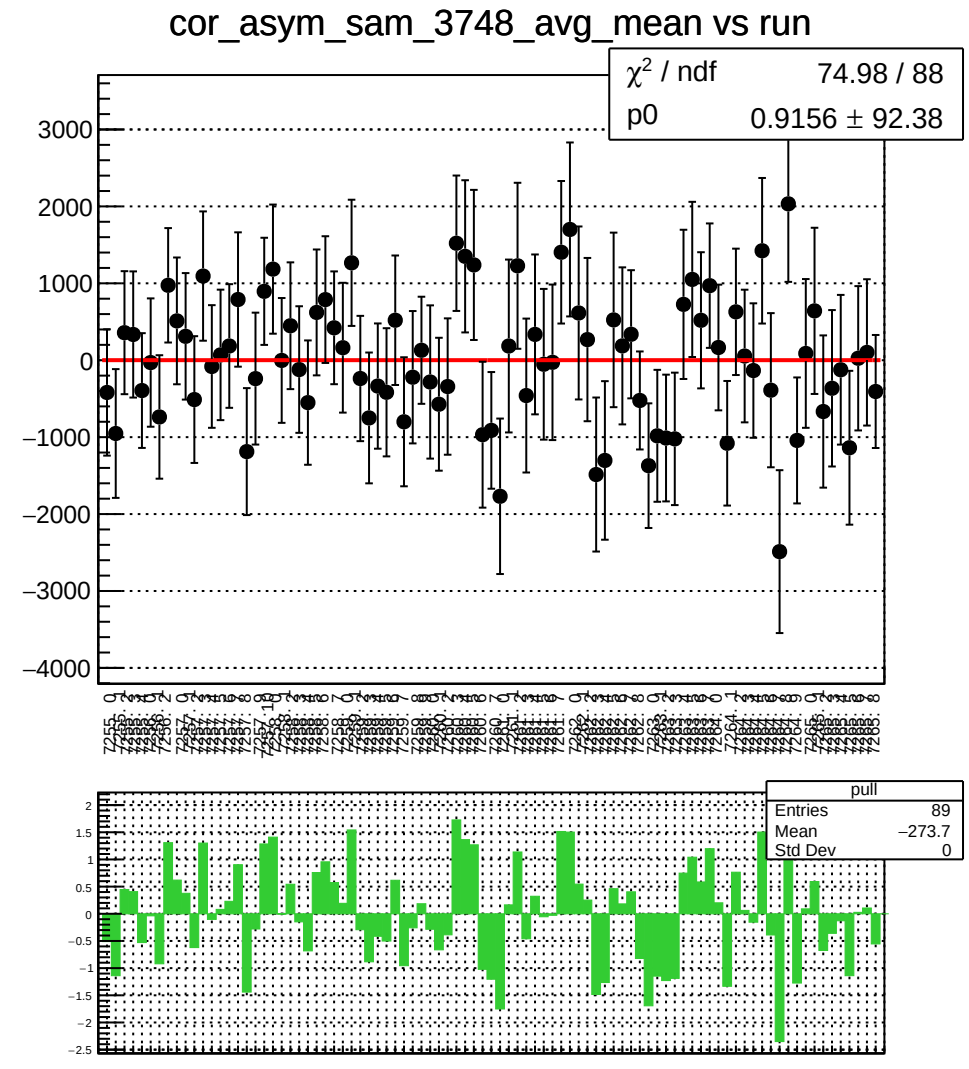

pull1D
Entries 89
Mean 0.008343
Std Dev 0.9178

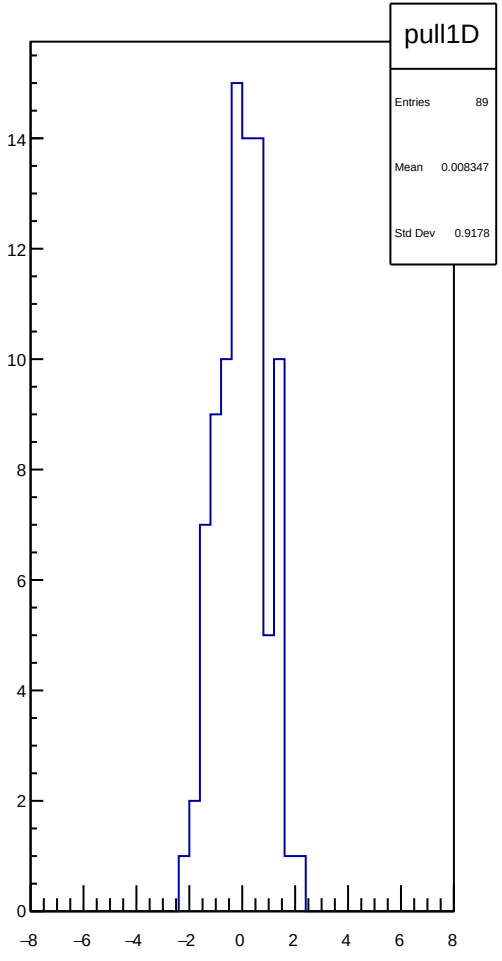

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.75e+04 / 88
p0 84.6 ± 0.06532
110
105
100
95
90
85
80
75

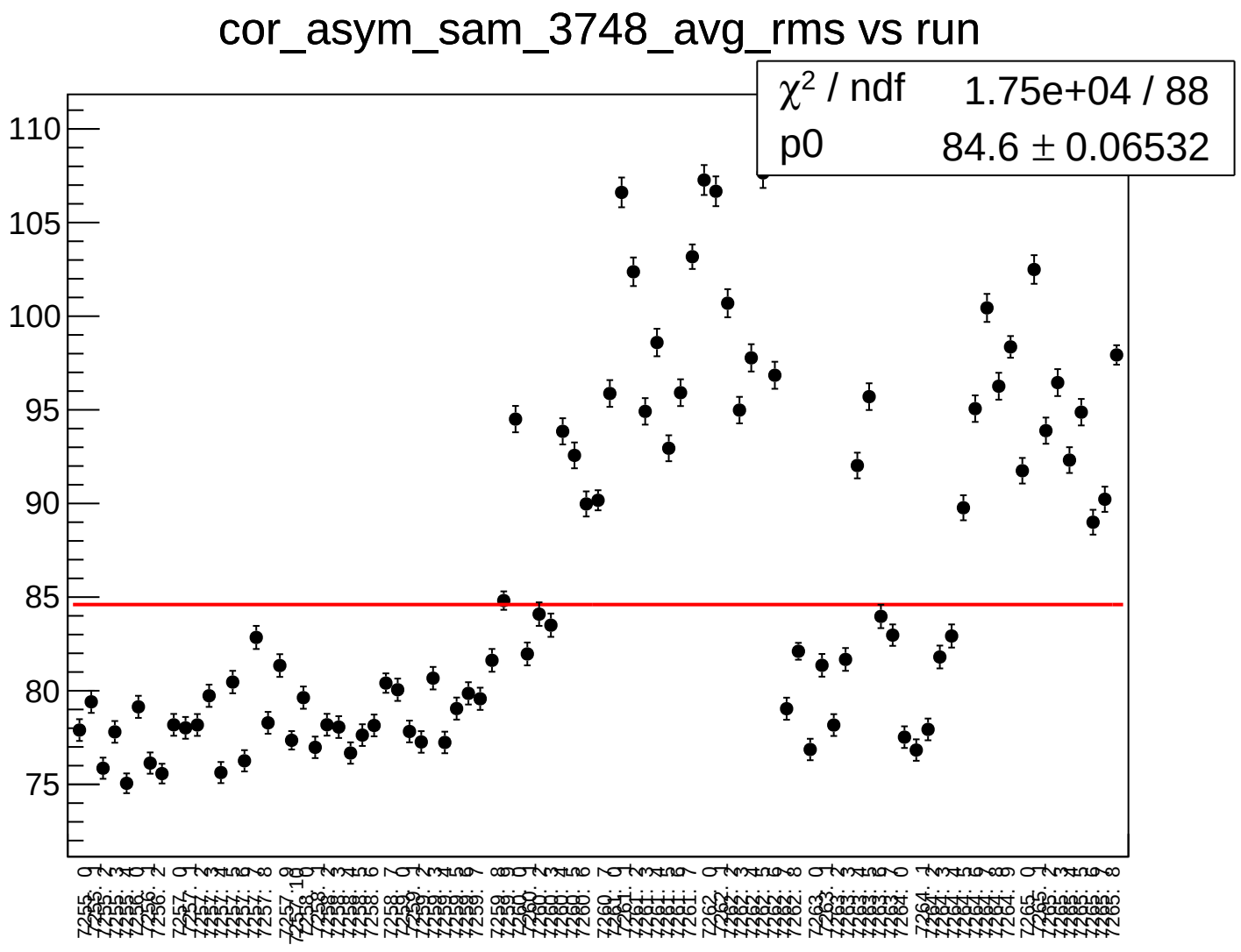

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 95.6 / 88
p0 −1031 ± 679.6
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −228.8
Std Dev 0
3
2
1
0
−1
−2

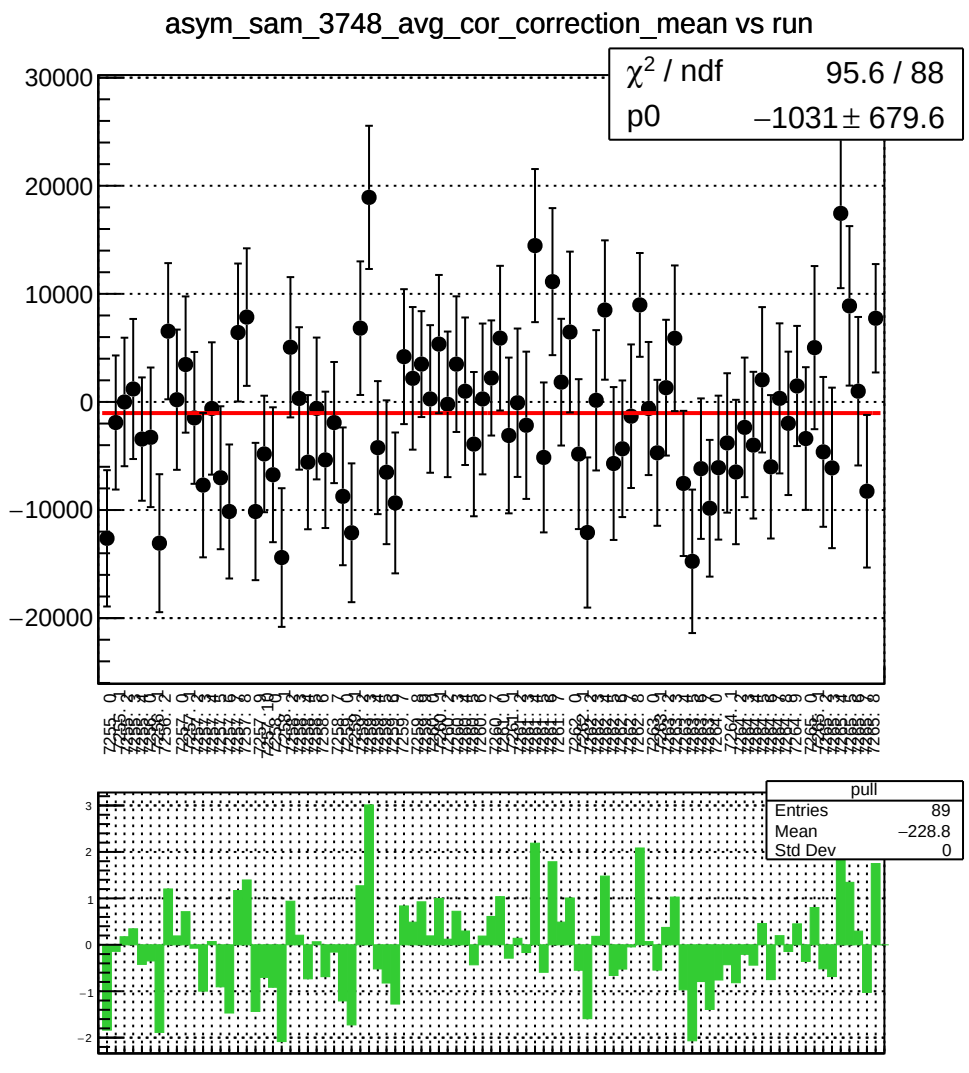

pull1D
Entries 89
Mean −0.01243
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

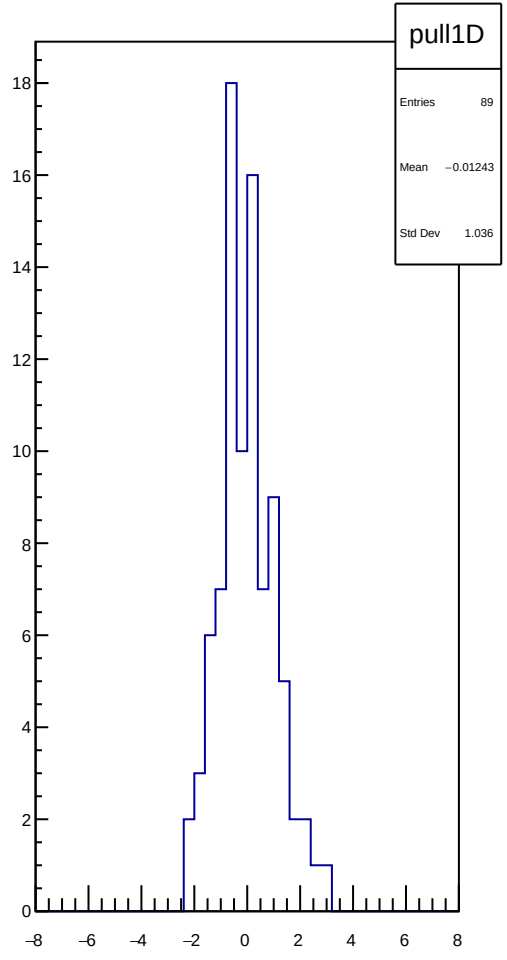

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 3974 / 88
p0 624.9 ± 0.4805
720
700
680
660
640
620
600
580
560

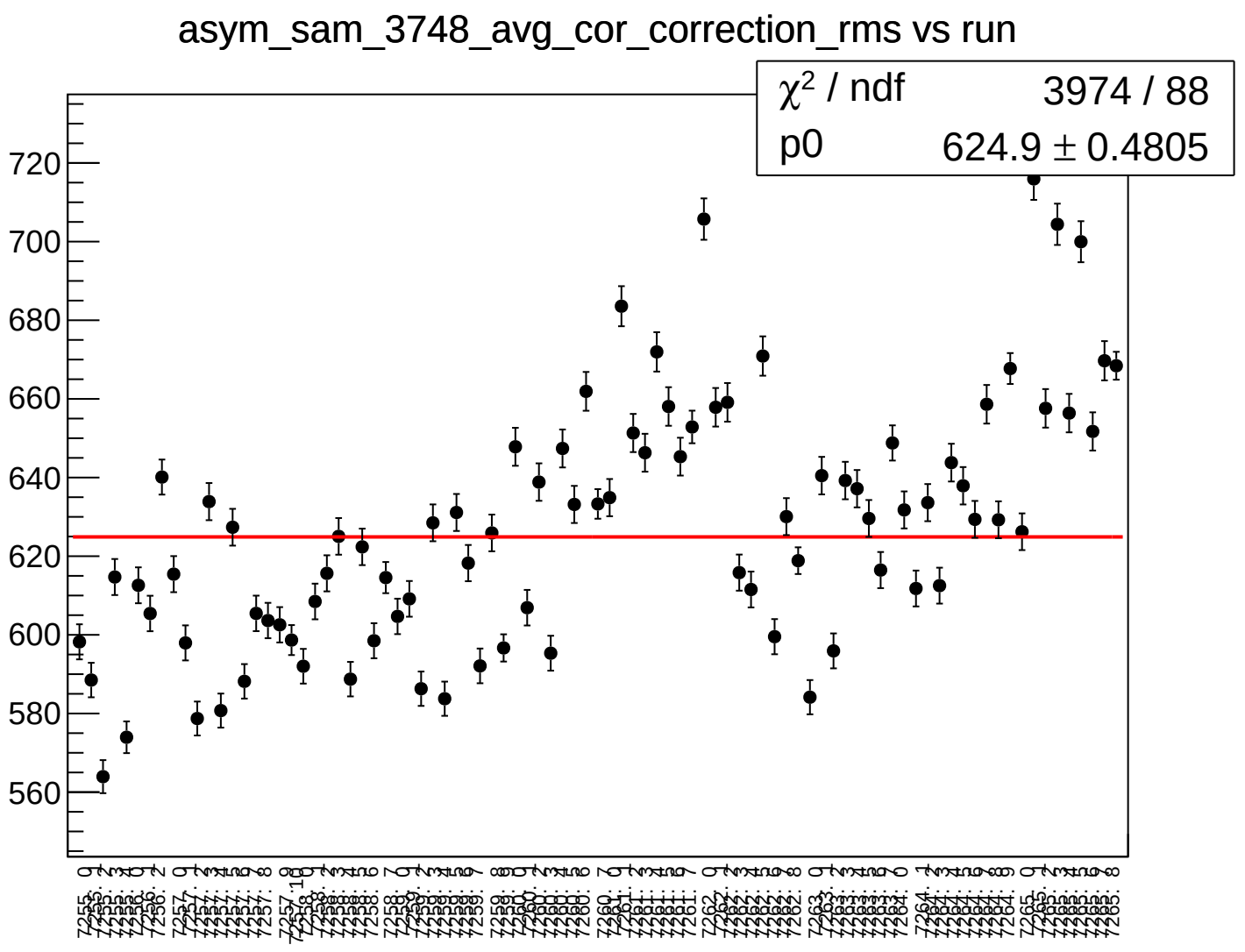

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 74.98 / 88
p0 0.9156 ± 92.38
pull
Entries 89
Mean −273.7
Std Dev 0

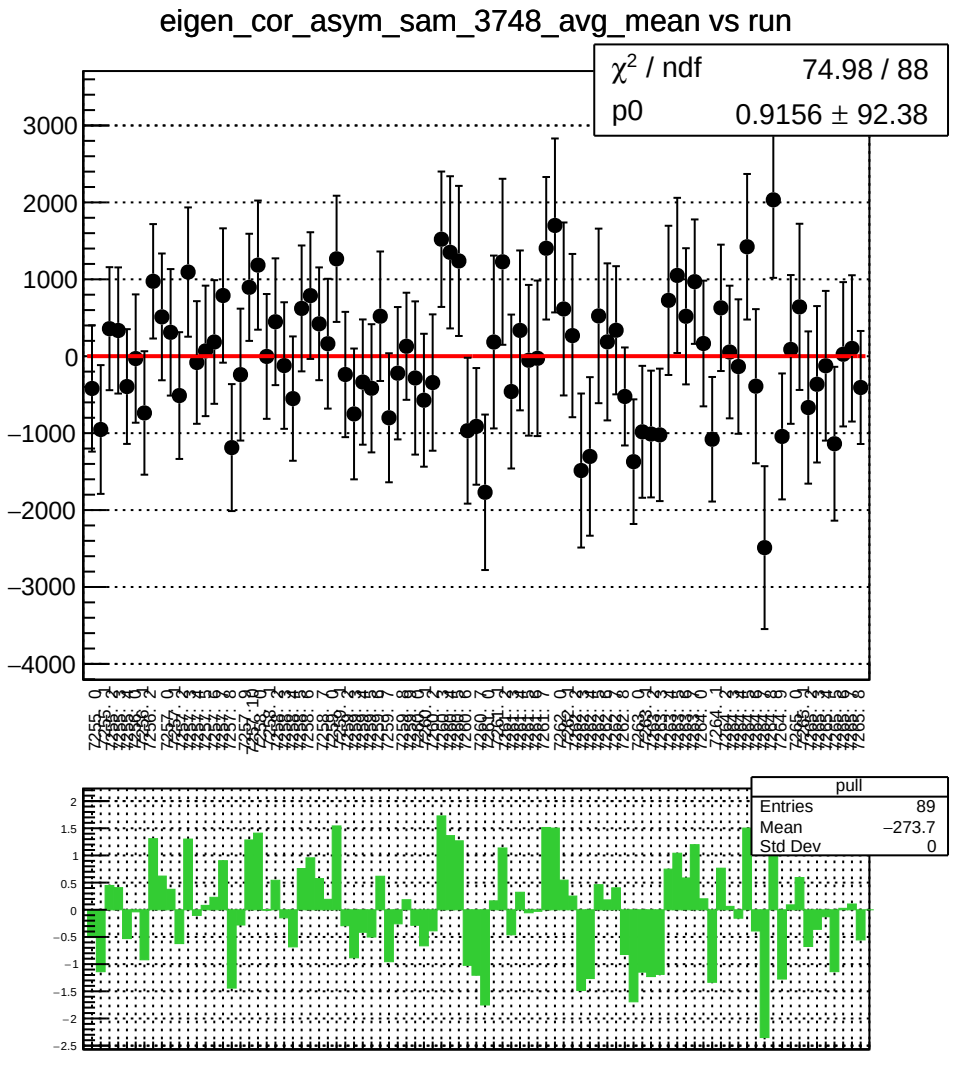

pull1D
Entries 89
Mean 0.008347
Std Dev 0.9178

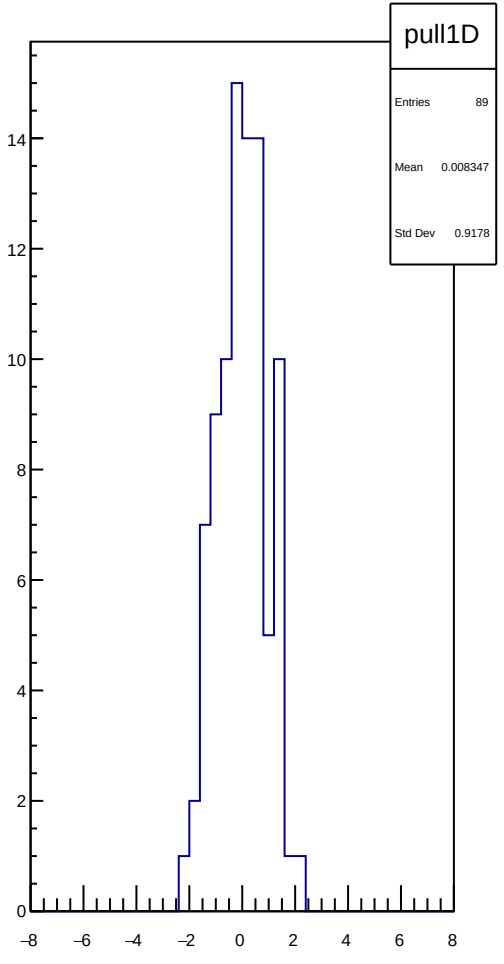

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.75e+04 / 88
p0 84.6 ± 0.06532
110
105
100
95
90
85
80
75

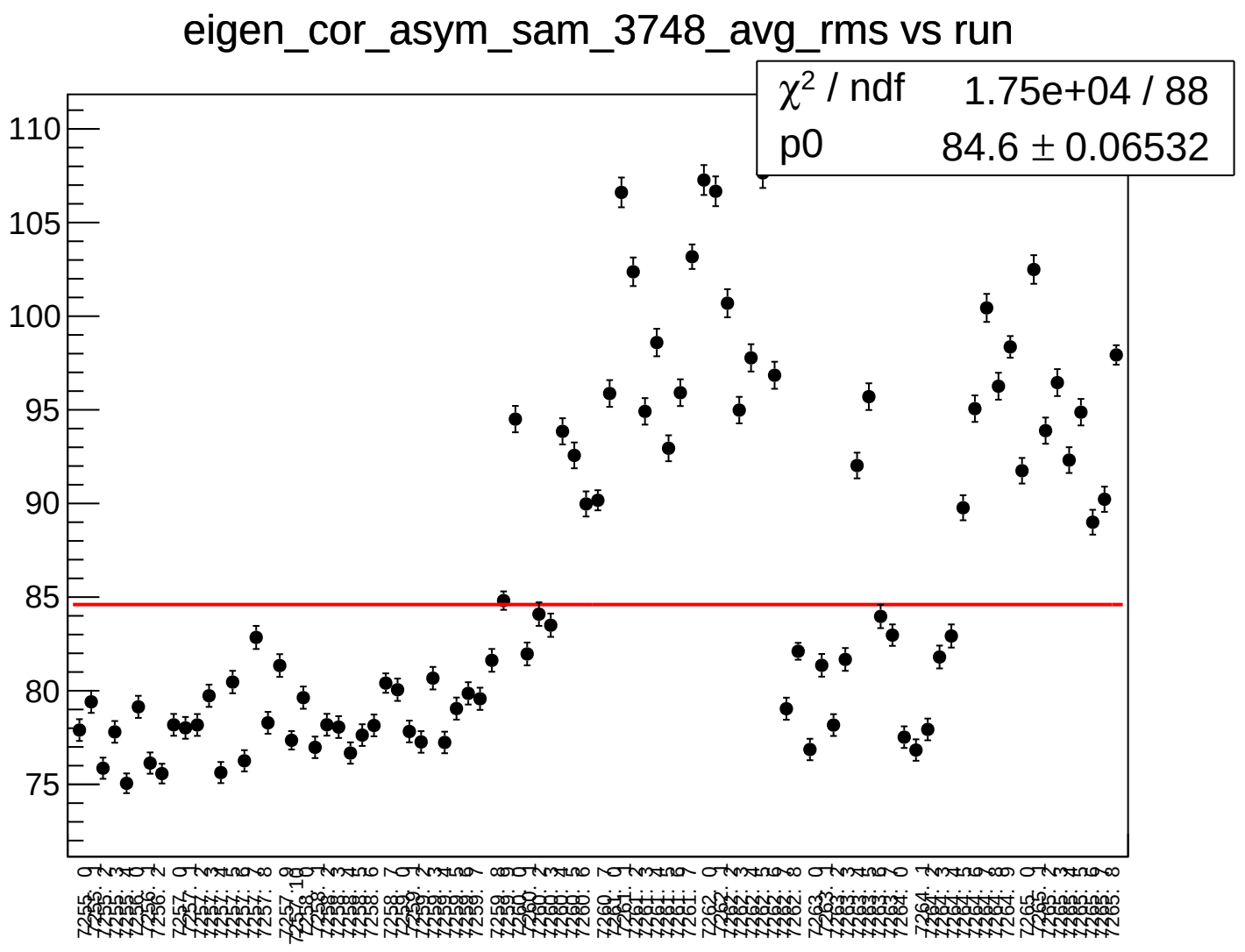

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 95.6 / 88
p0 −1031 ± 679.6
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −228.8
Std Dev 0
3
2
1
0
−1
−2

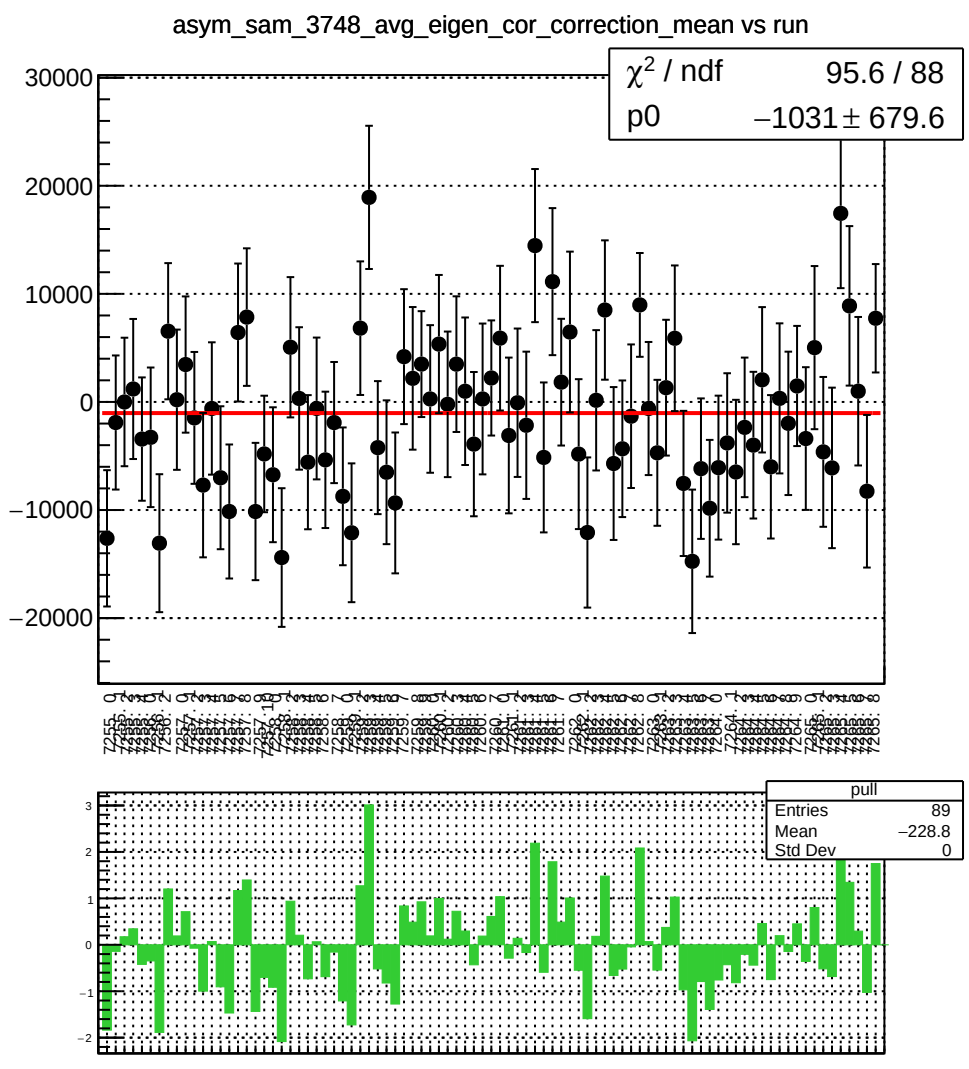

pull1D
Entries 89
Mean −0.01243
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

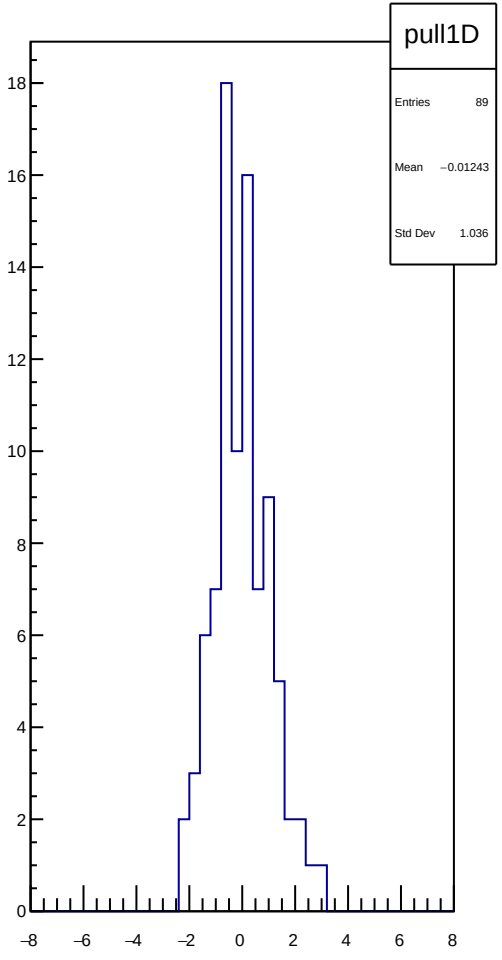

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 3974 / 88
p0 624.9 ± 0.4805
720
700
680
660
640
620
600
580
560

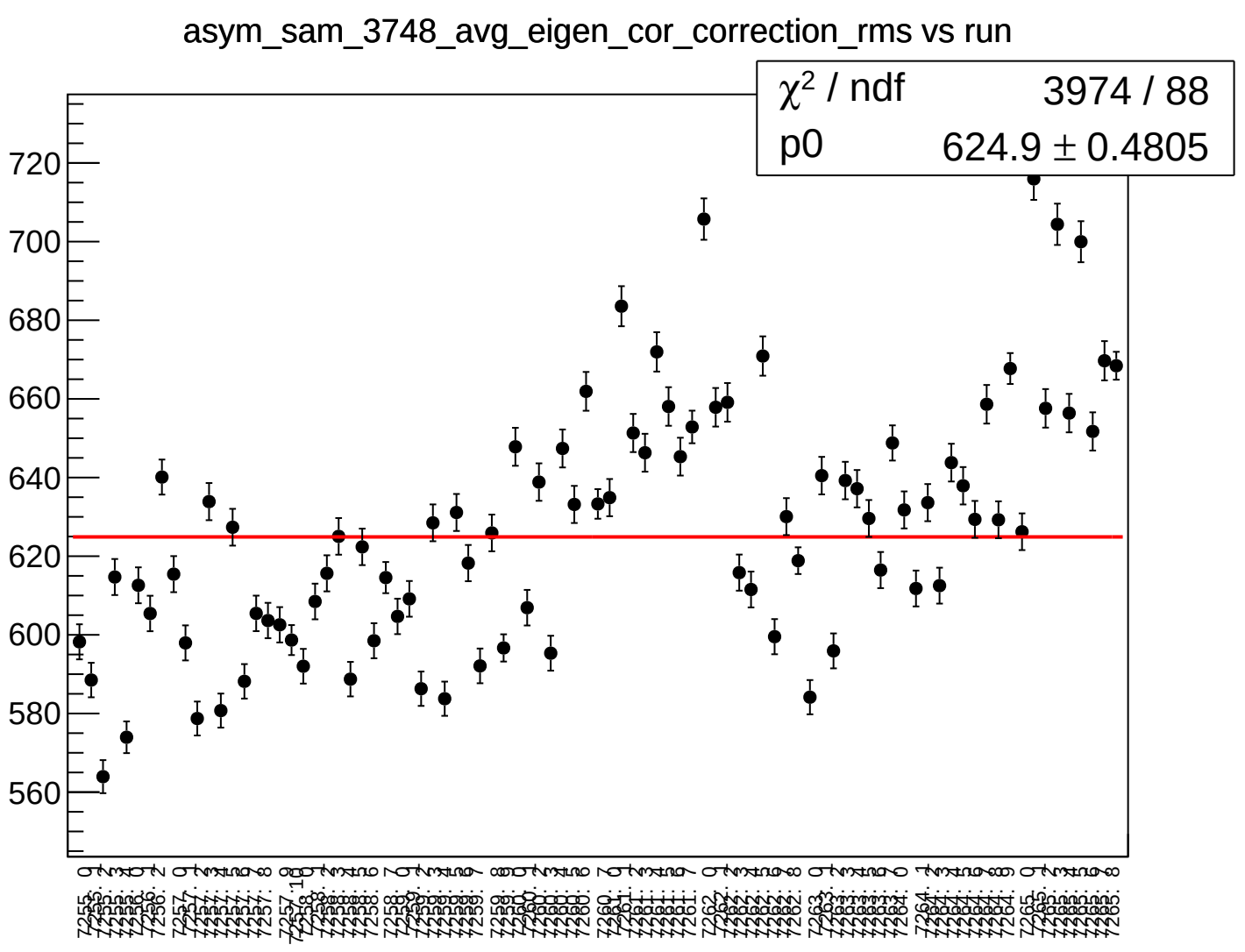

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 74.98 / 88
p0 0.9156 ± 92.38
pull
Entries 89
Mean −273.7
Std Dev 0

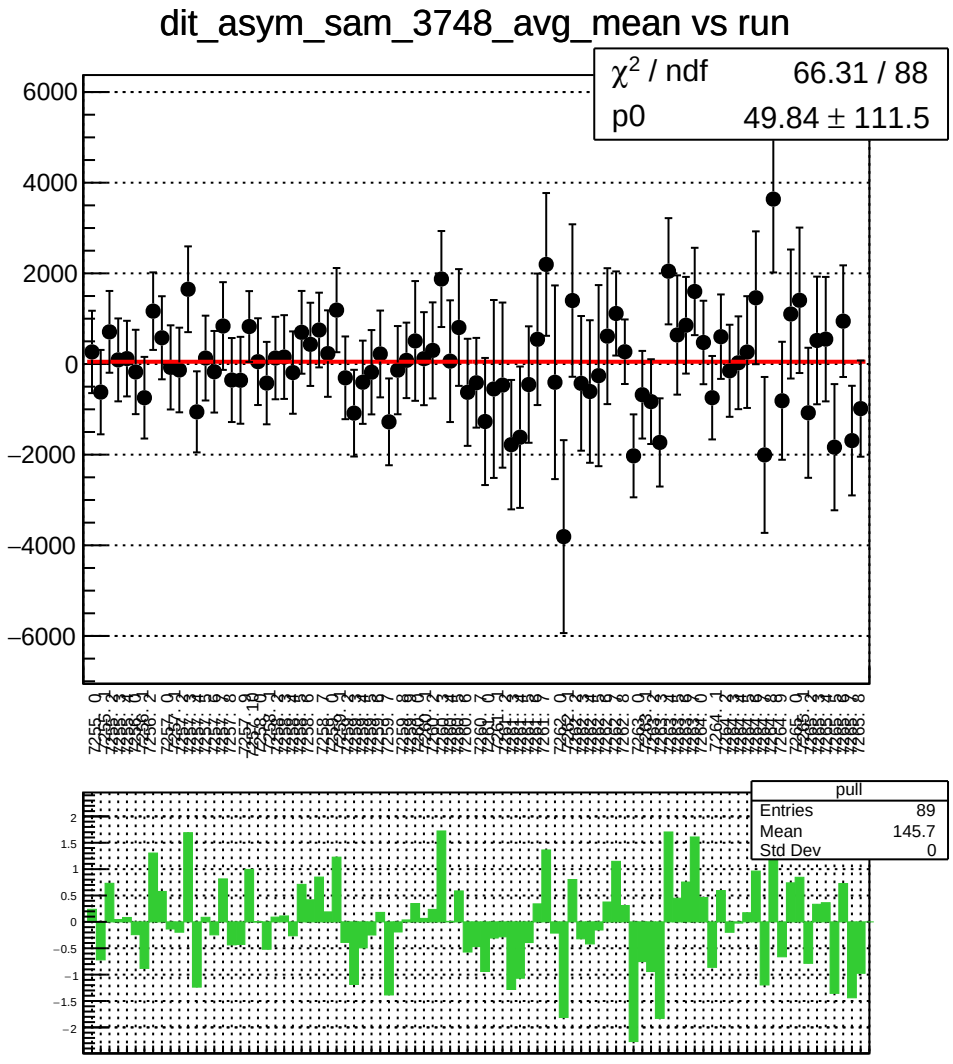

pull1D
Entries 89
Mean 0.008347
Std Dev 0.9178

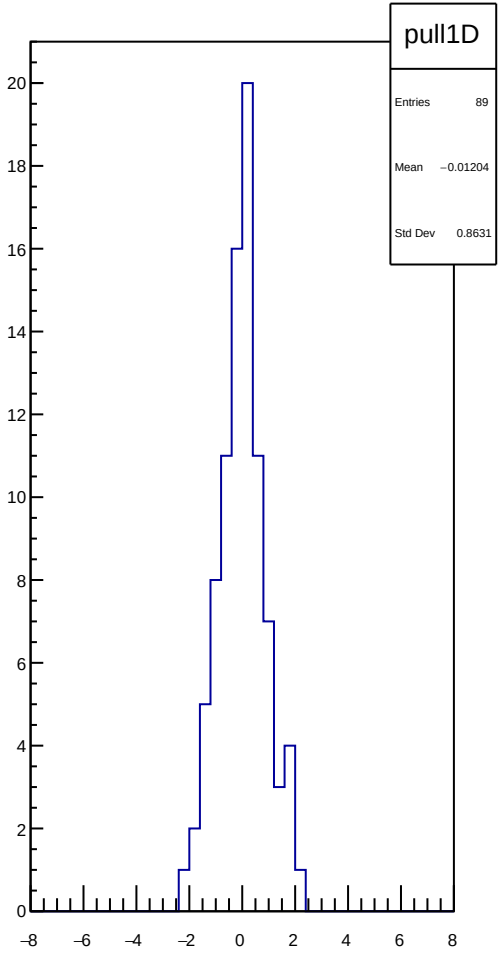

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.75e+04 / 88
p0 84.6 ± 0.06532
110
105
100
95
90
85
80
75

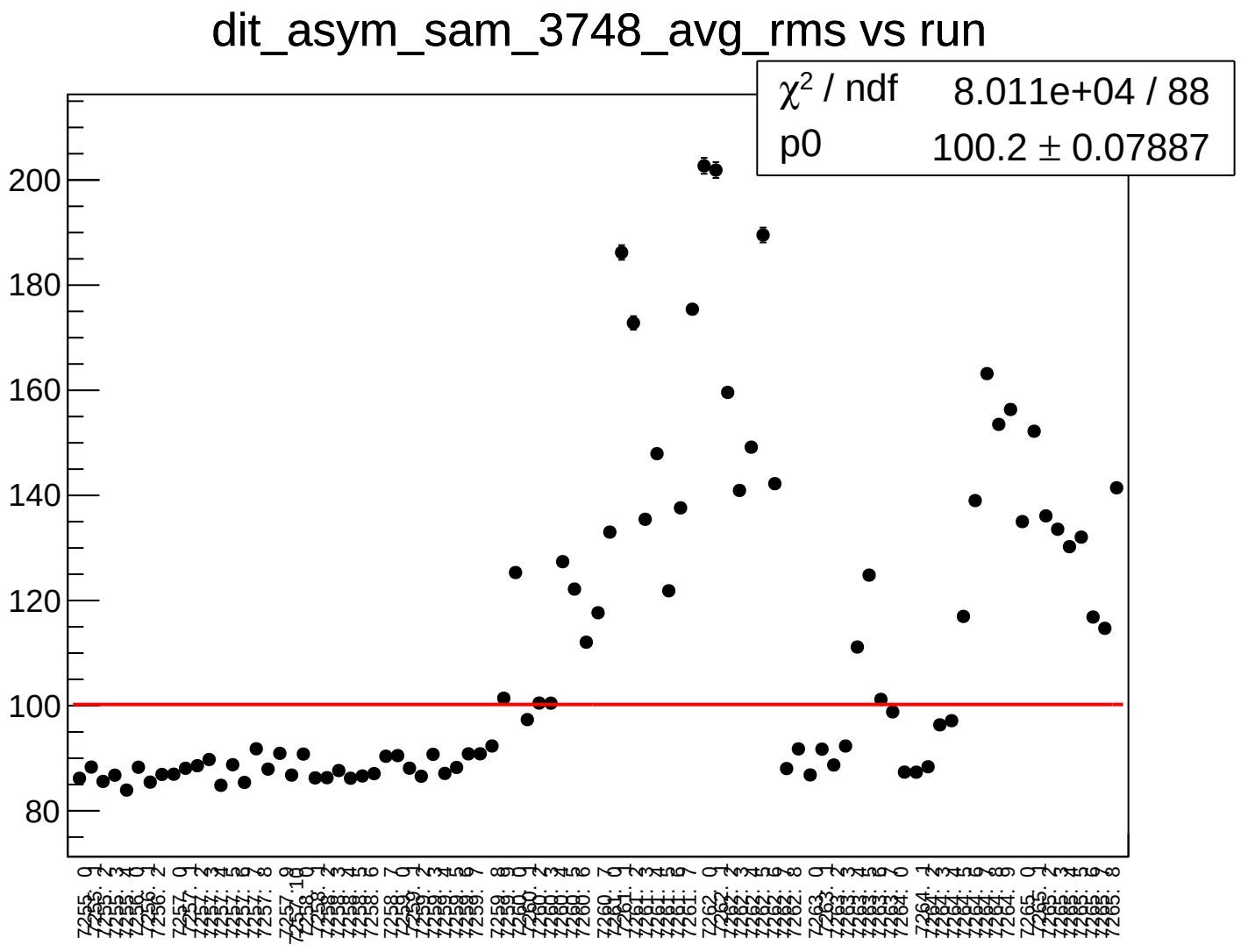

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 95.6 / 88
p0 −1031 ± 679.6
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −228.8
Std Dev 0
3
2
1
0
−1
−2

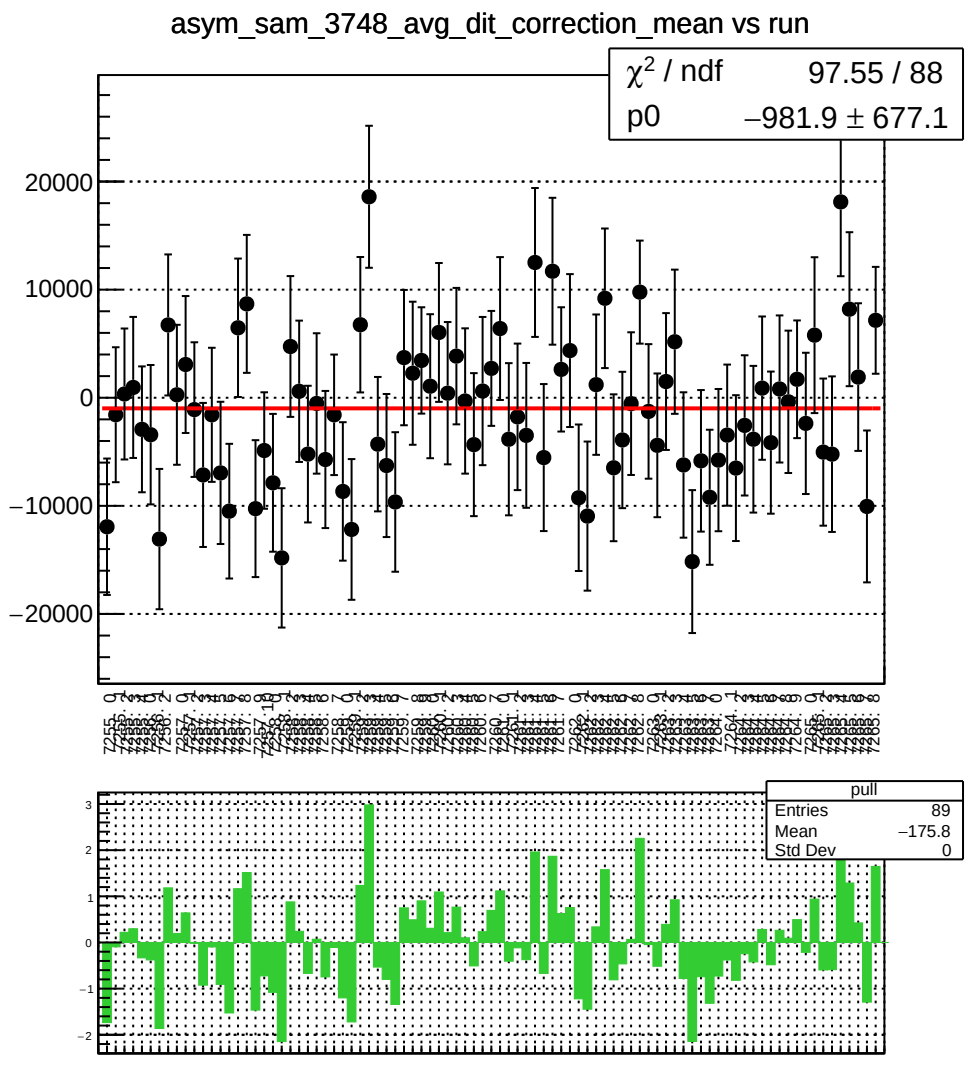

pull1D
Entries 89
Mean −0.01243
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

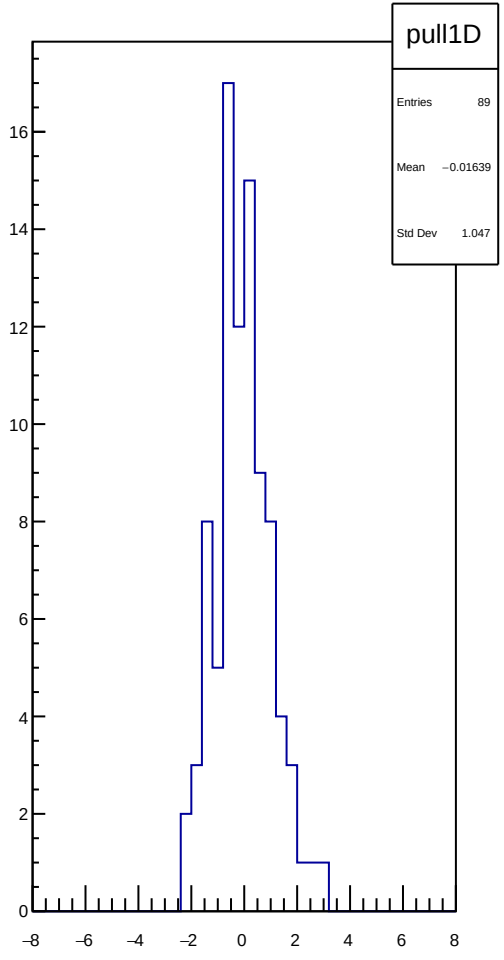

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 3974 / 88
p0 624.9 ± 0.4805
720
700
680
660
640
620
600
580
560

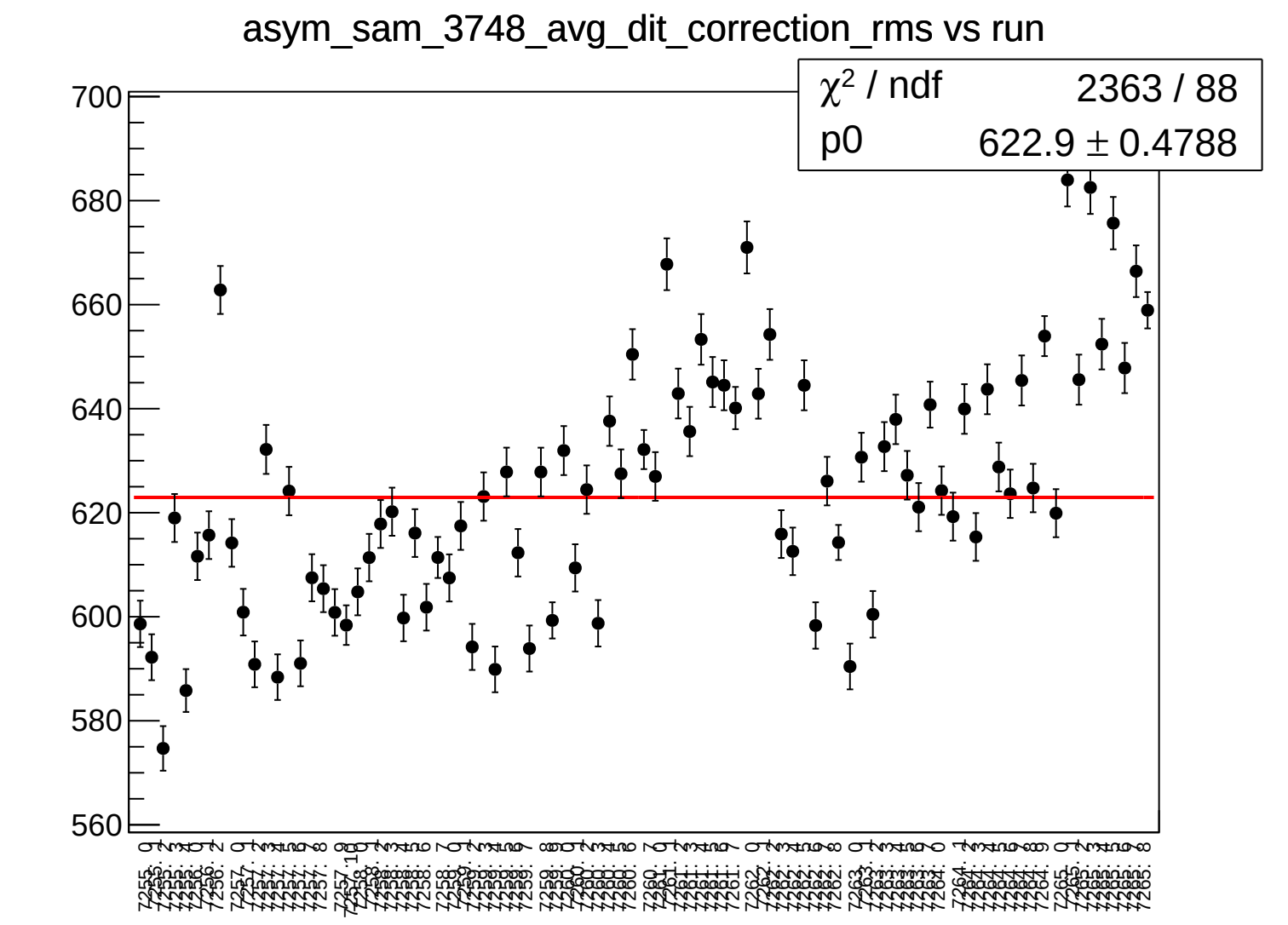

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 66.31 / 88
p0 49.84 ± 111.5
pull
Entries 89
Mean 145.7
Std Dev 0

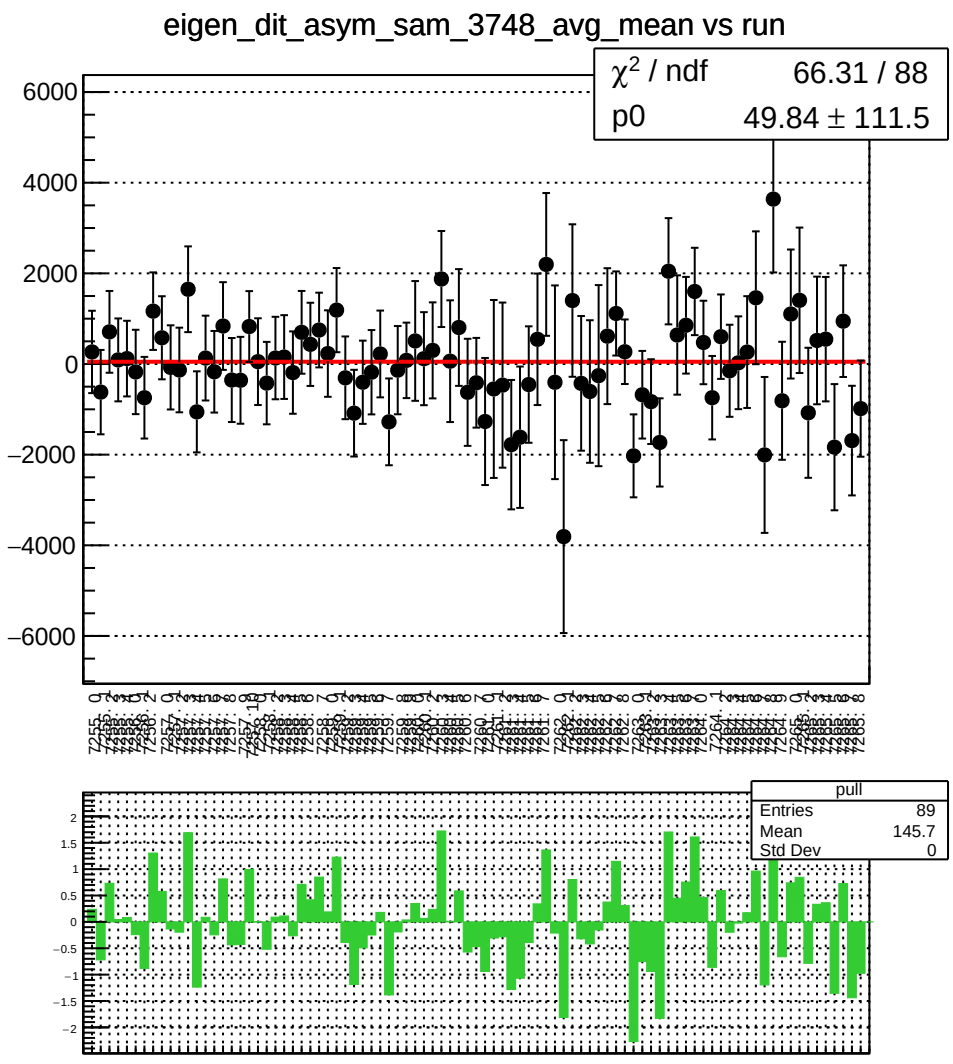

pull1D
Entries 89
Mean −0.01204
Std Dev 0.8631

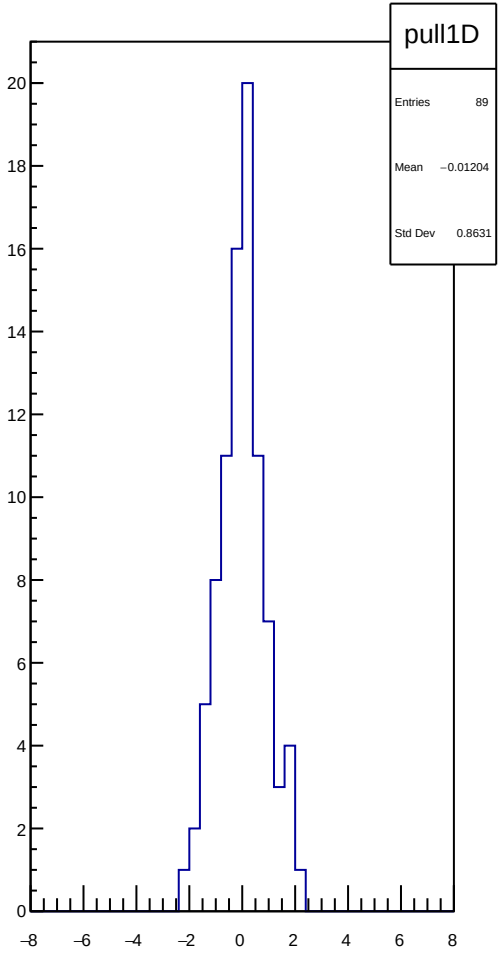

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 8.011e+04 / 88
p0 100.2 ± 0.07887
200
180
160
140
120
100
80

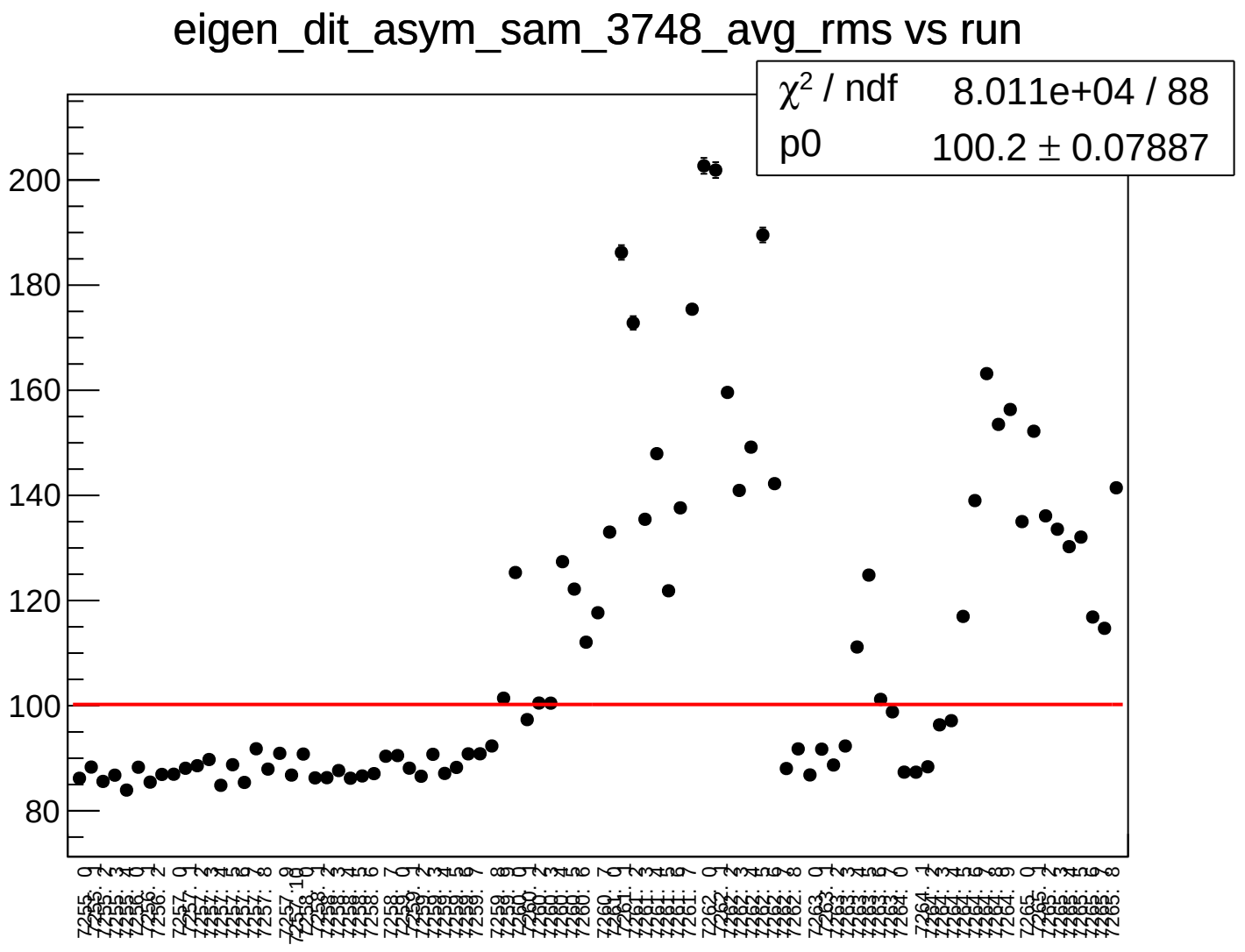

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 97.55 / 88
p0 −981.9 ± 677.1
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −175.8
Std Dev 0
3
2
1
0
−1
−2

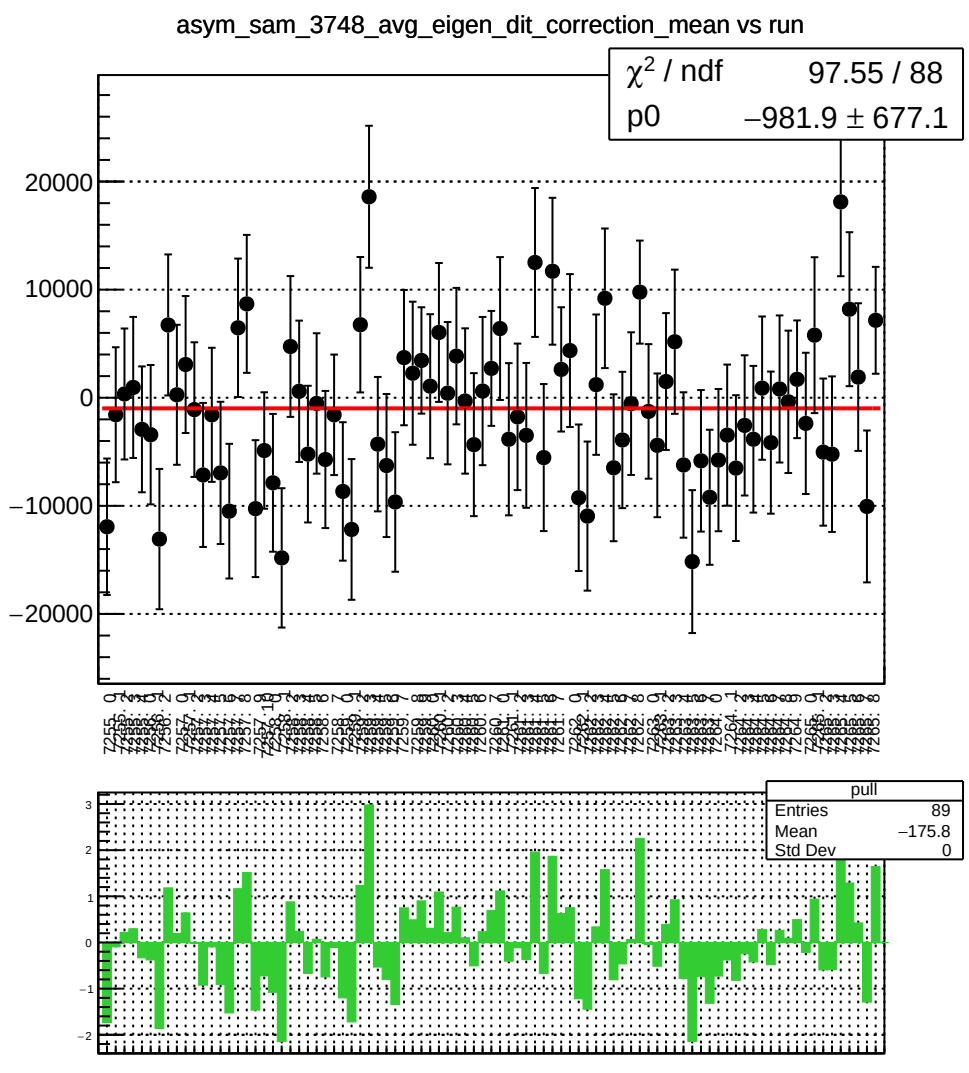

pull1D
Entries 89
Mean −0.01639
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

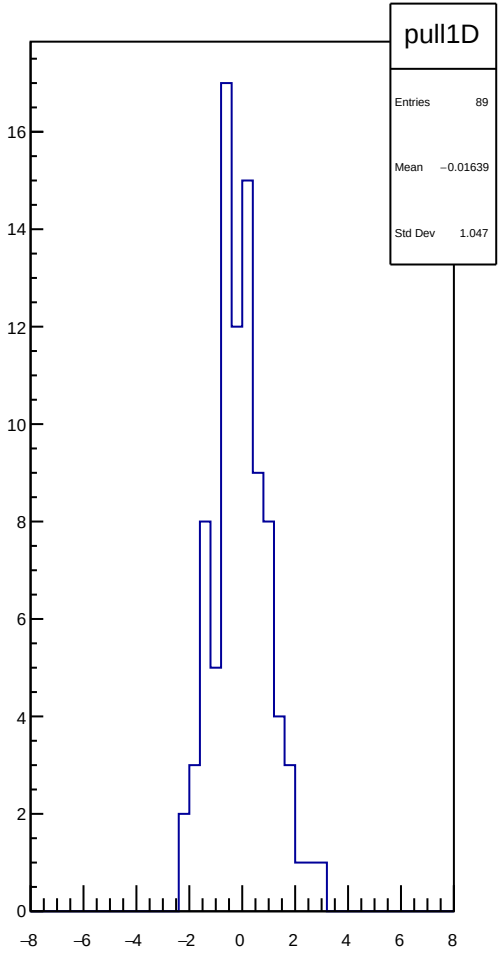

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 2363 / 88
p0 622.9 ± 0.4788
700
680
660
640
620
600
580
560

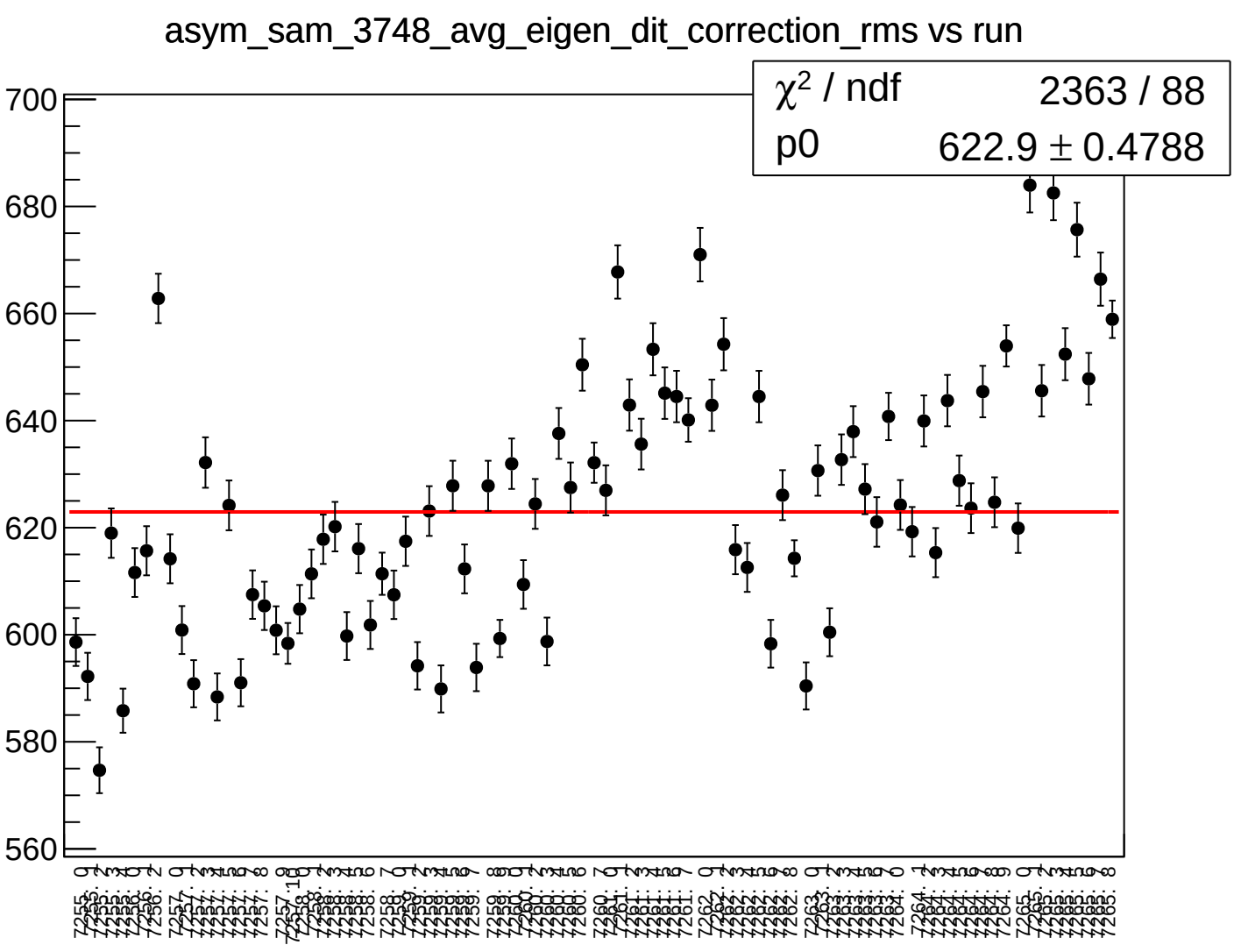

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 66.31 / 88
p0 49.84 ± 111.5
pull
Entries 89
Mean 145.7
Std Dev 0

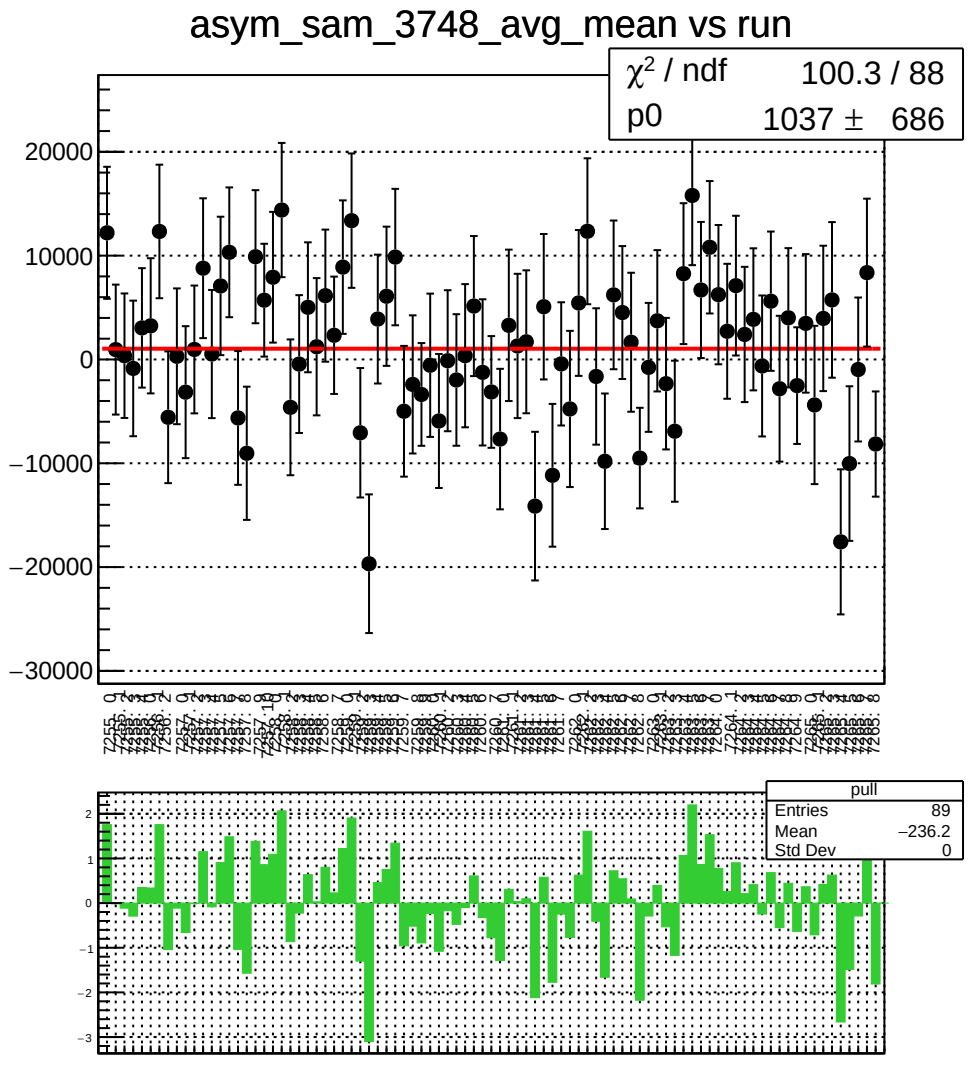

pull1D
Entries 89
Mean −0.01204
Std Dev 0.8631

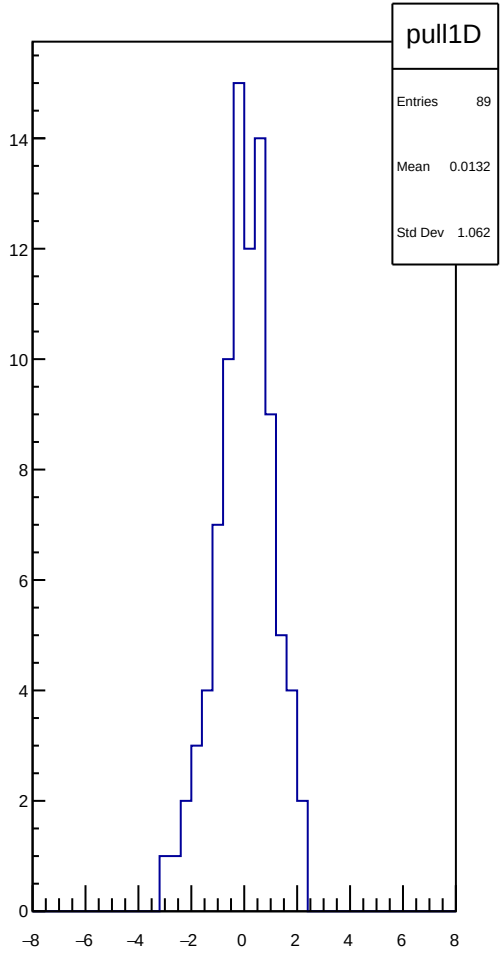

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 8.011e+04 / 88
p0 100.2 ± 0.07887
200
180
160
140
120
100
80

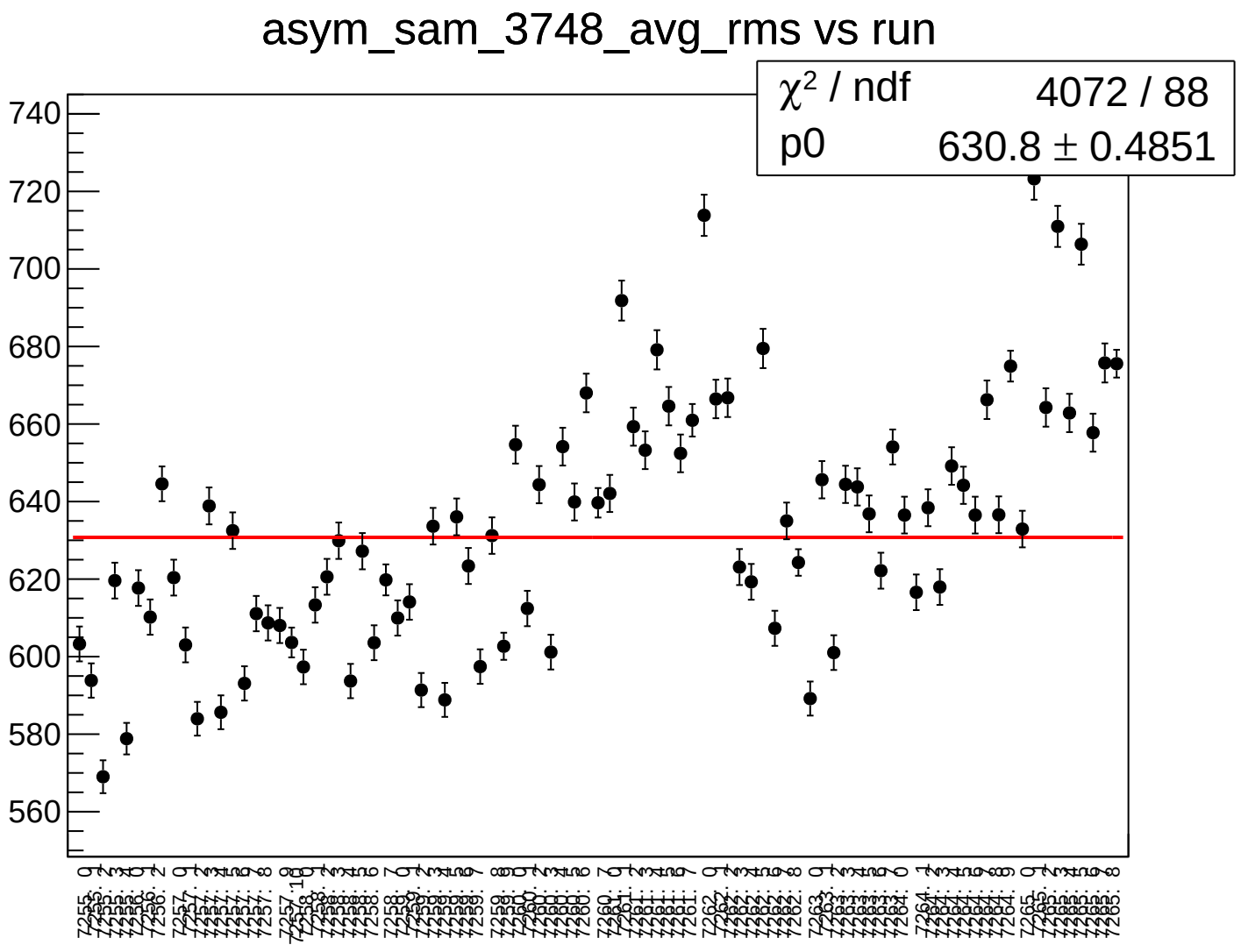

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.55 / 88
p0 −981.9 ± 677.1
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −175.8
Std Dev 0
3
2
1
0
−1
−2

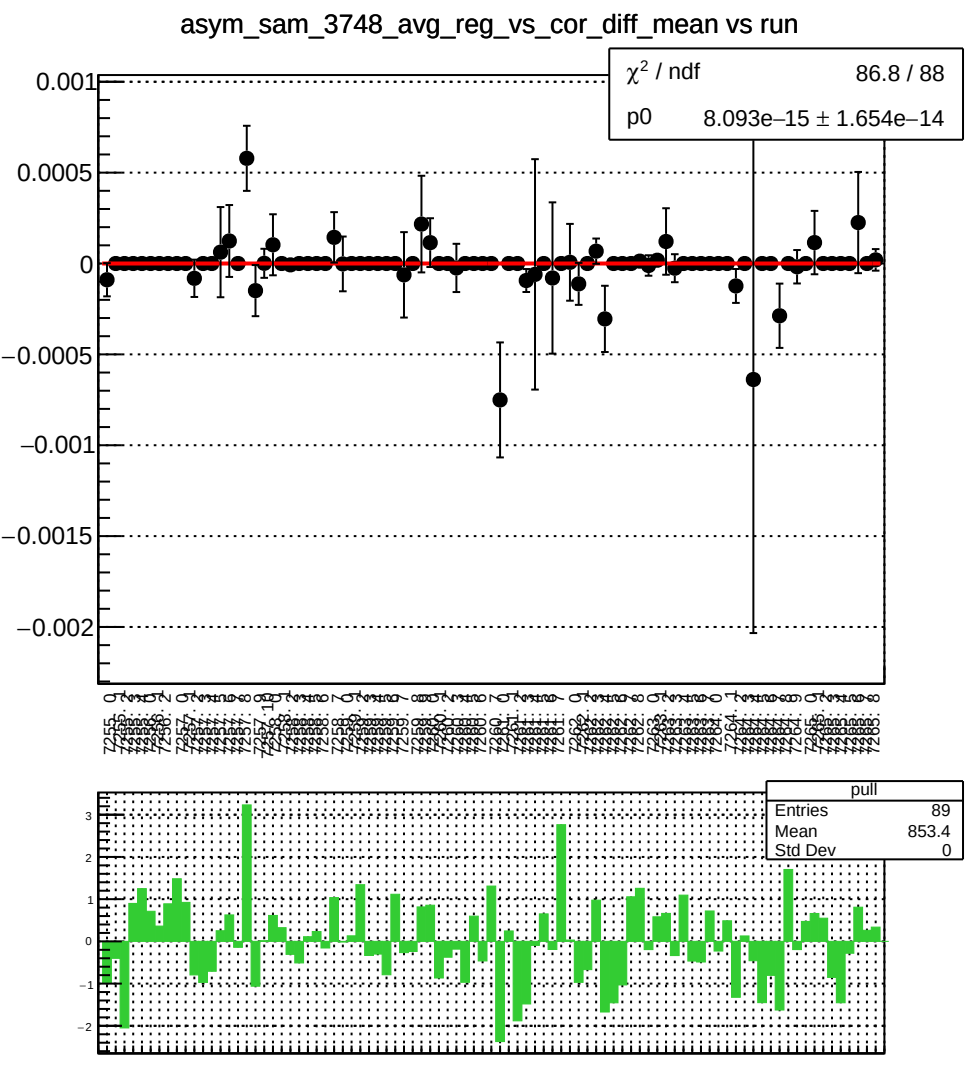

pull1D
Entries 89
Mean −0.01639
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

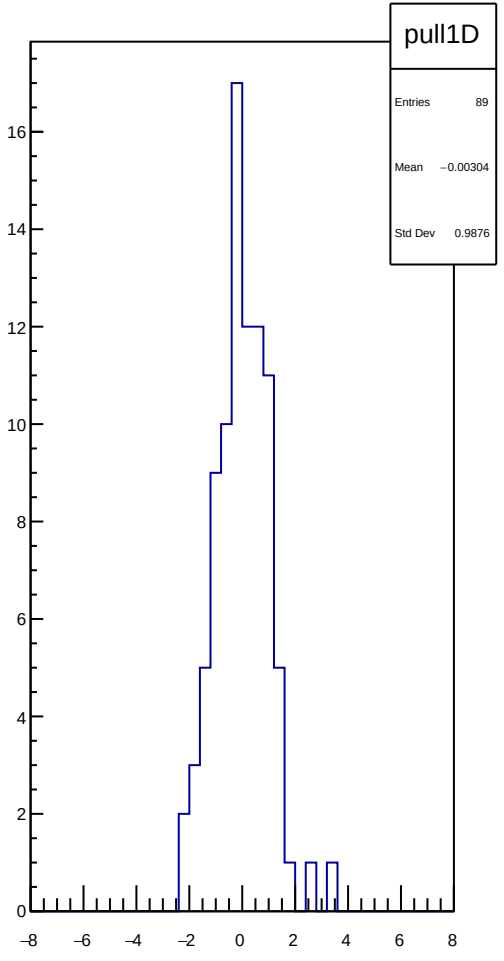

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 2363 / 88
p0 622.9 ± 0.4788
700
680
660
640
620
600
580
560

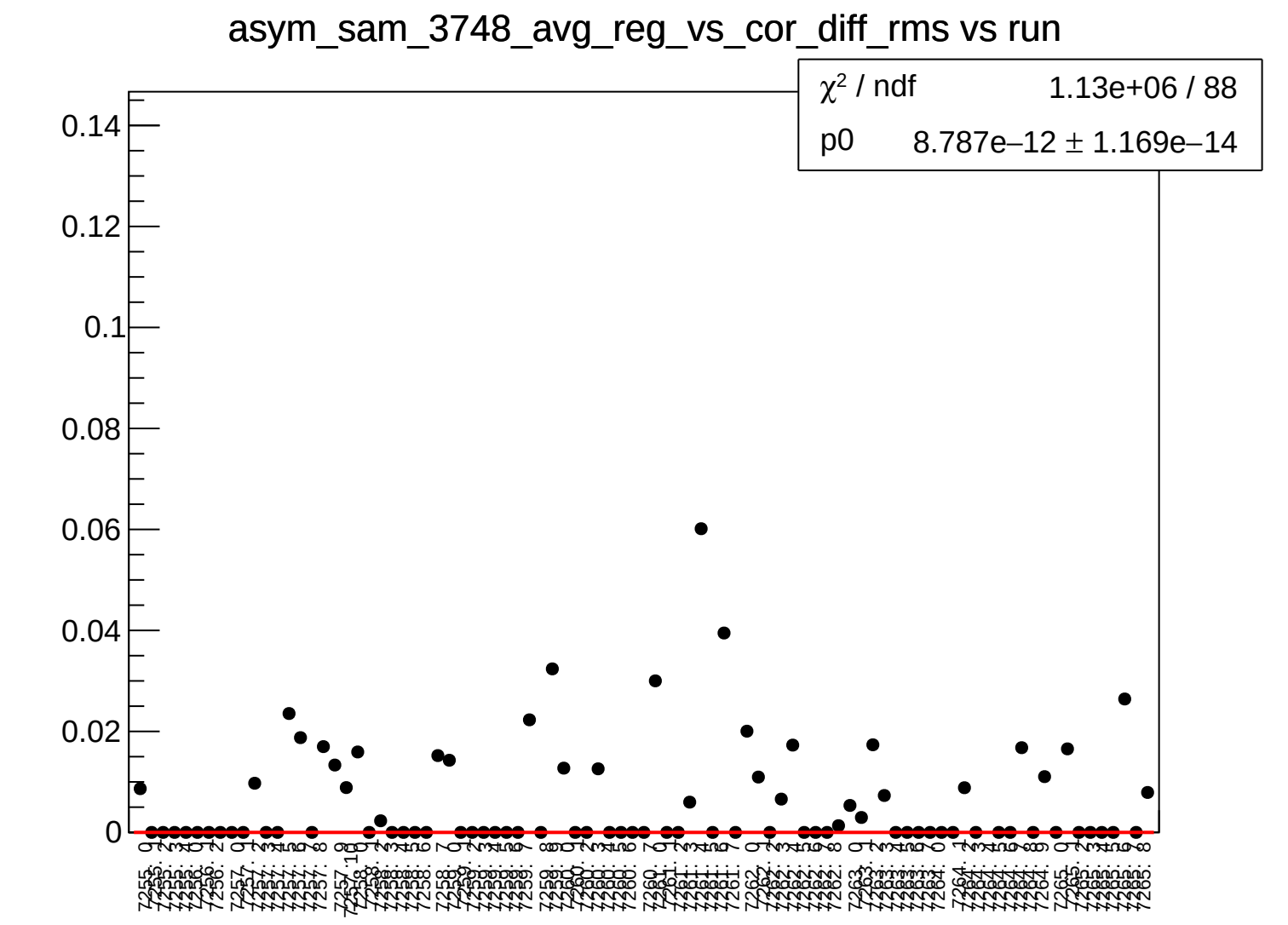

asym_sam_3748_avg_mean vs run
χ² / ndf 100.3 / 88
p0 1037 ± 686
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −236.2
Std Dev 0
2
1
0
−1
−2
−3

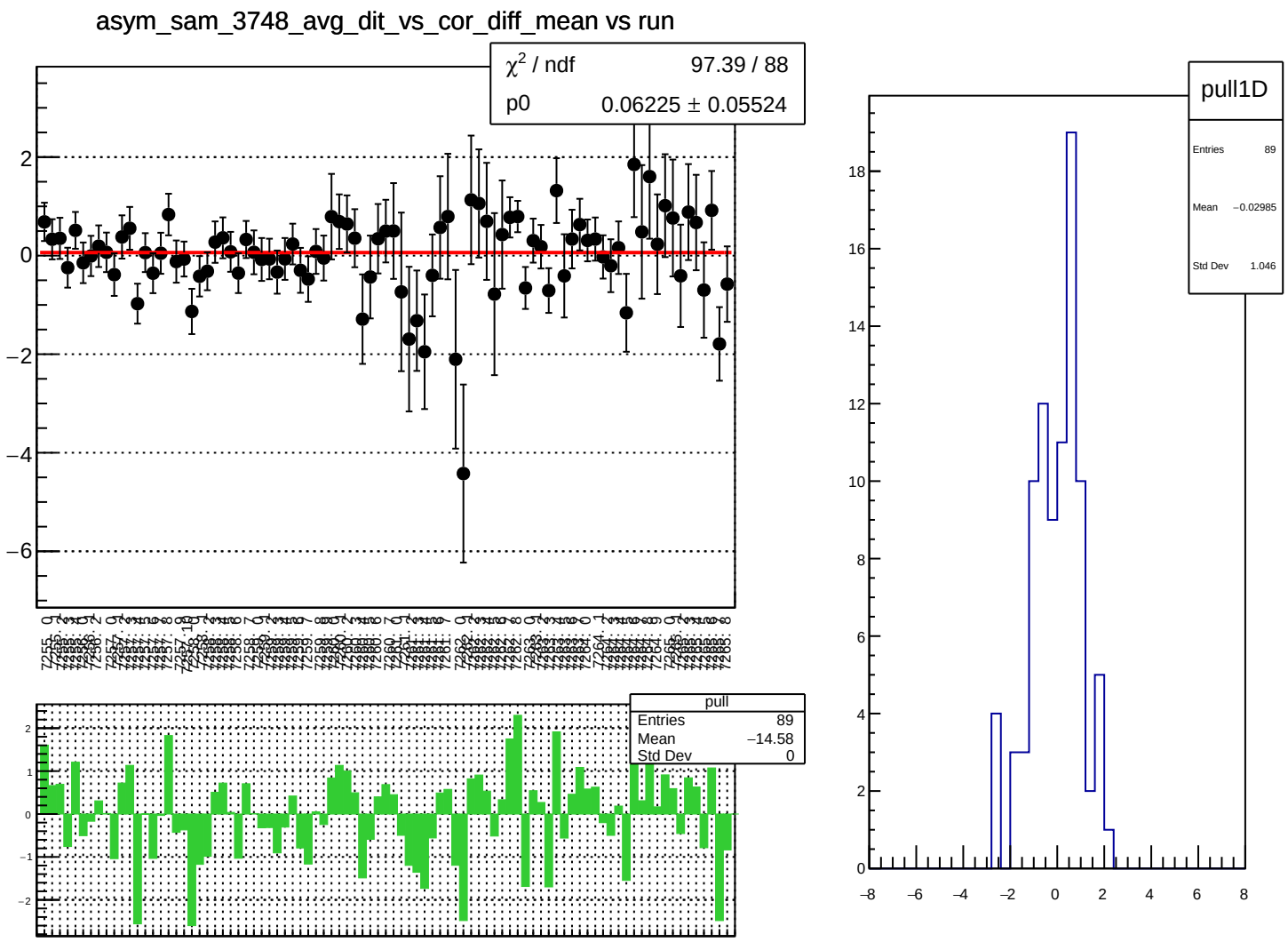

pull1D
Entries 89
Mean 0.0132
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

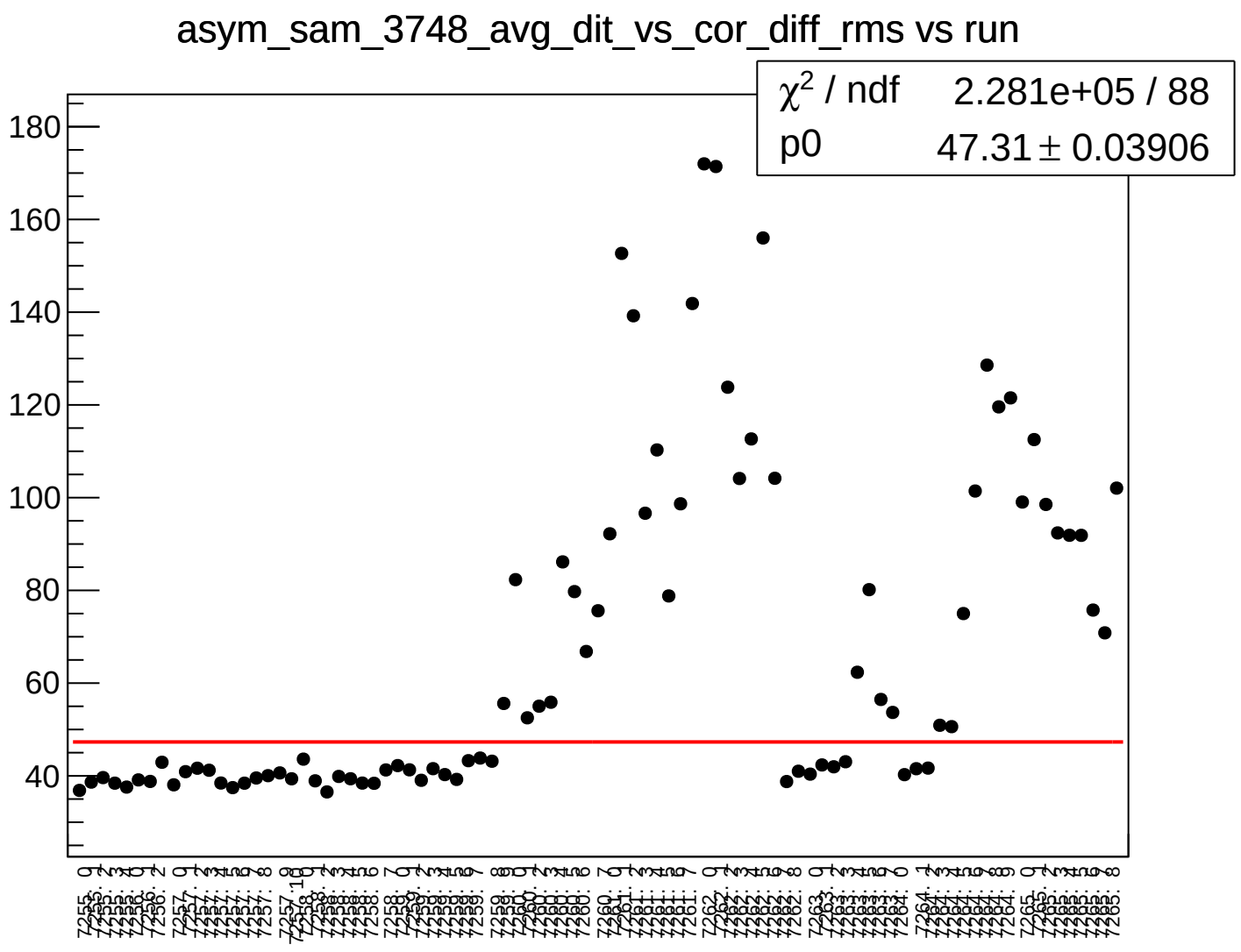

asym_sam_3748_avg_rms vs run
χ² / ndf 4072 / 88
p0 630.8 ± 0.4851
740
720
700
680
660
640
620
600
580
560

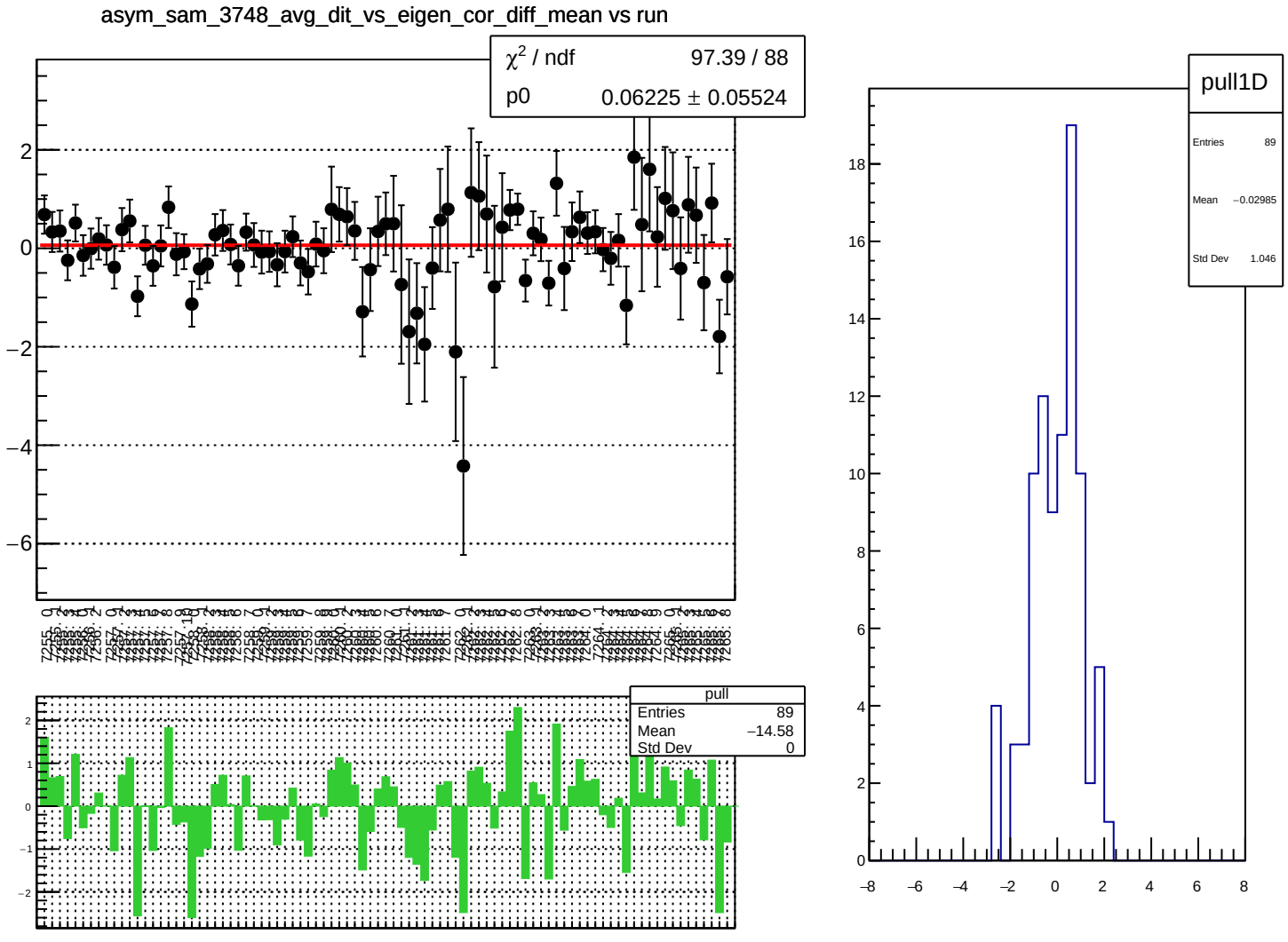

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.8 / 88
p0 8.093e−15 ± 1.654e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 89
Mean 853.4
Std Dev 0
3
2
1
0
−1
−2

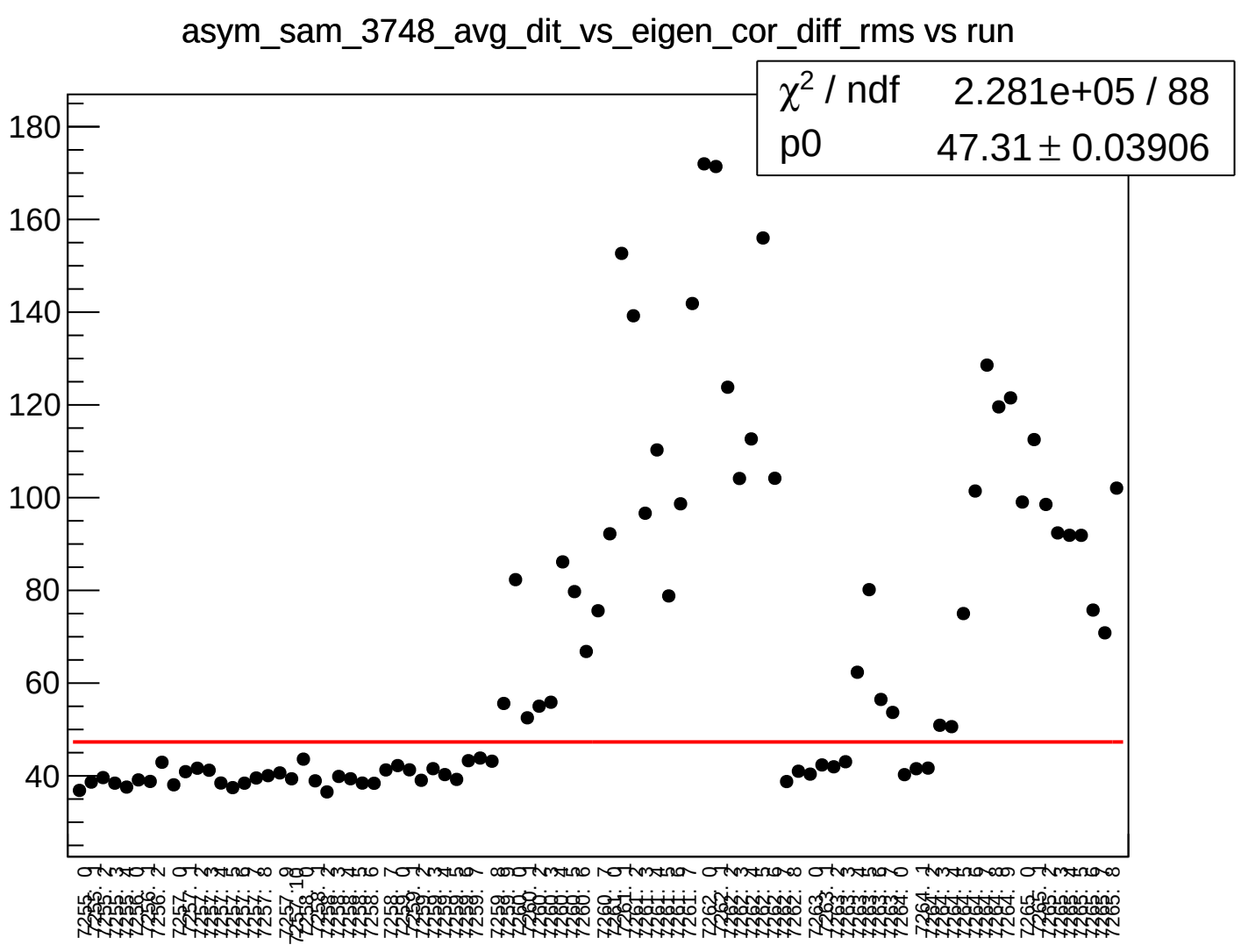

pull1D
Entries 89
Mean −0.00304
Std Dev 0.9876
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

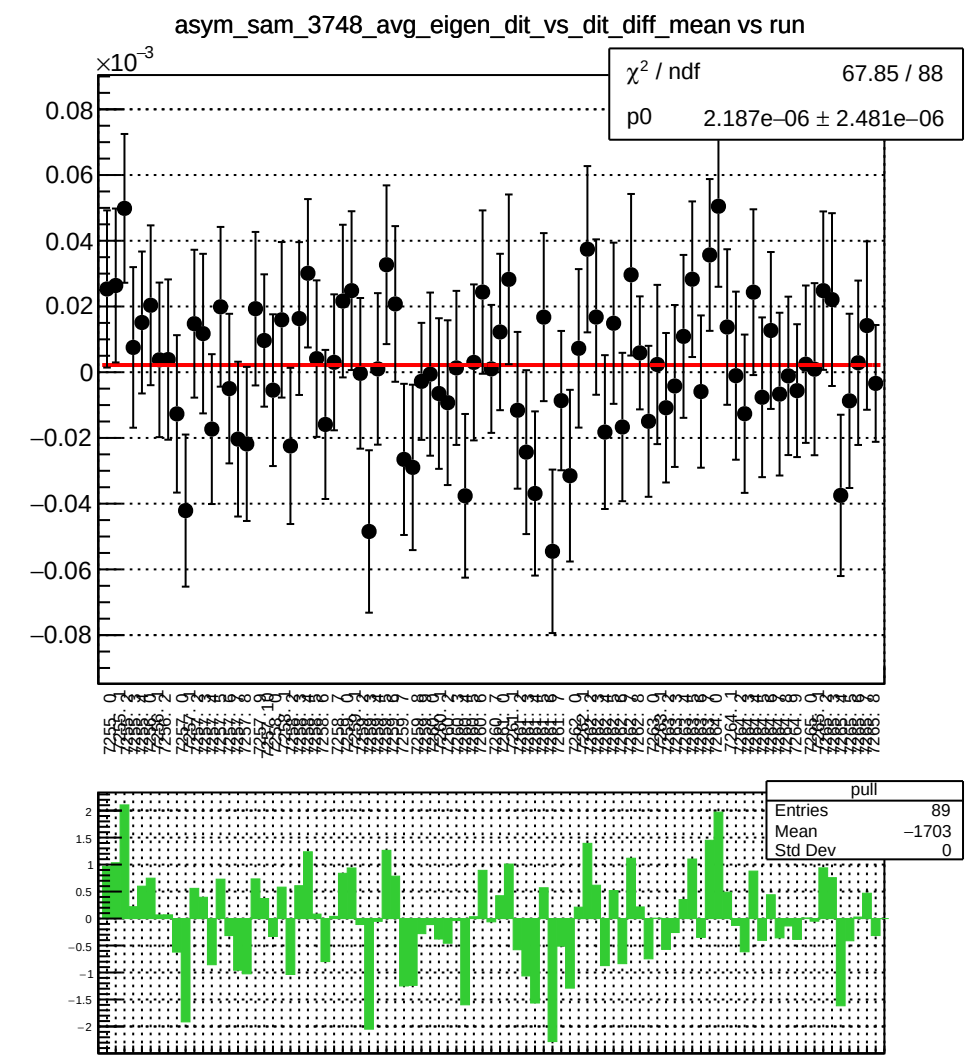

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.13e+06 / 88
p0 8.787e−12 ± 1.169e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

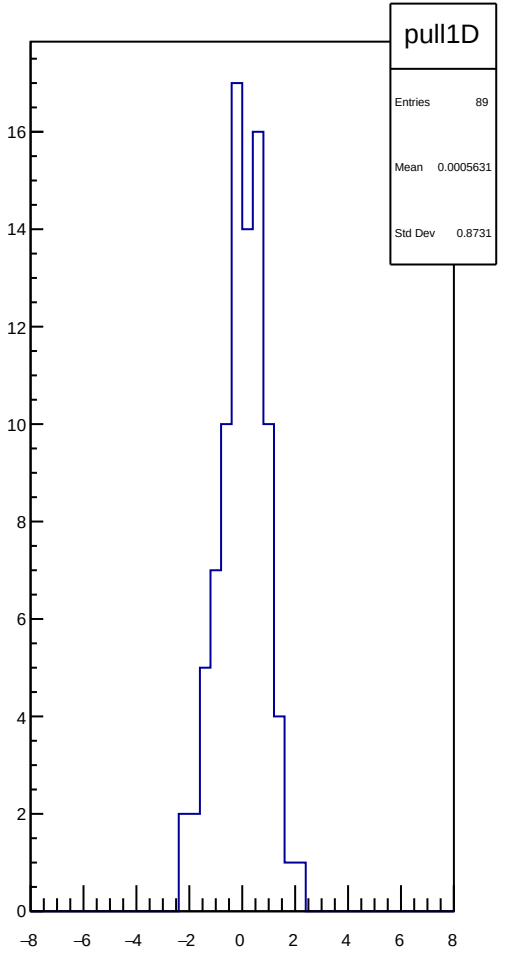

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.39 / 88
p0 0.06225 ± 0.05524
pull
Entries 89
Mean −14.58
Std Dev 0
pull1D
Entries 89
Mean −0.02985
Std Dev 1.046

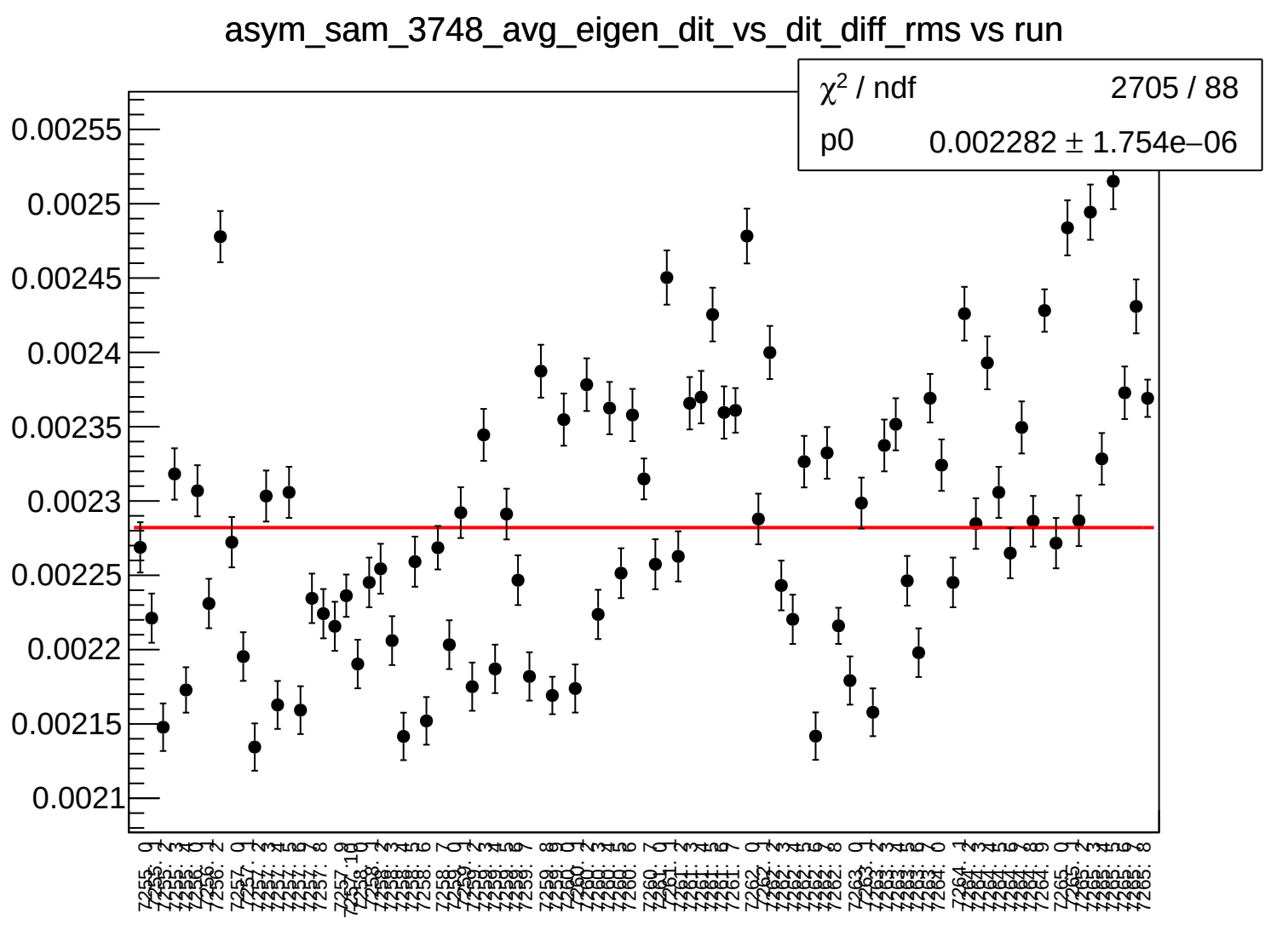

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.281e+05 / 88
p0 47.31 ± 0.03906
180
160
140
120
100
80
60
40

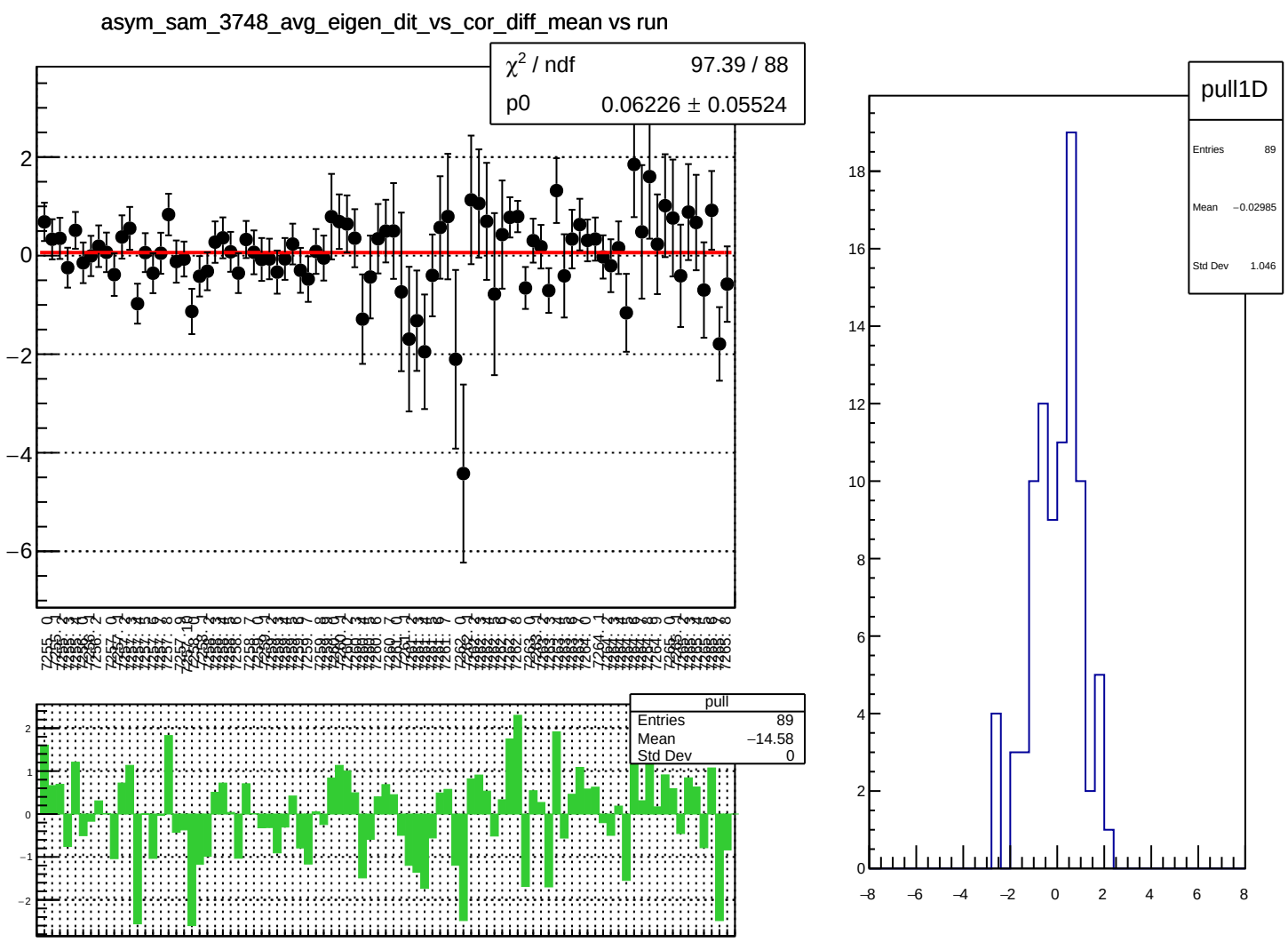

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.39 / 88
p0 0.06225 ± 0.05524
pull
Entries 89
Mean −14.58
Std Dev 0
pull1D
Entries 89
Mean −0.02985
Std Dev 1.046

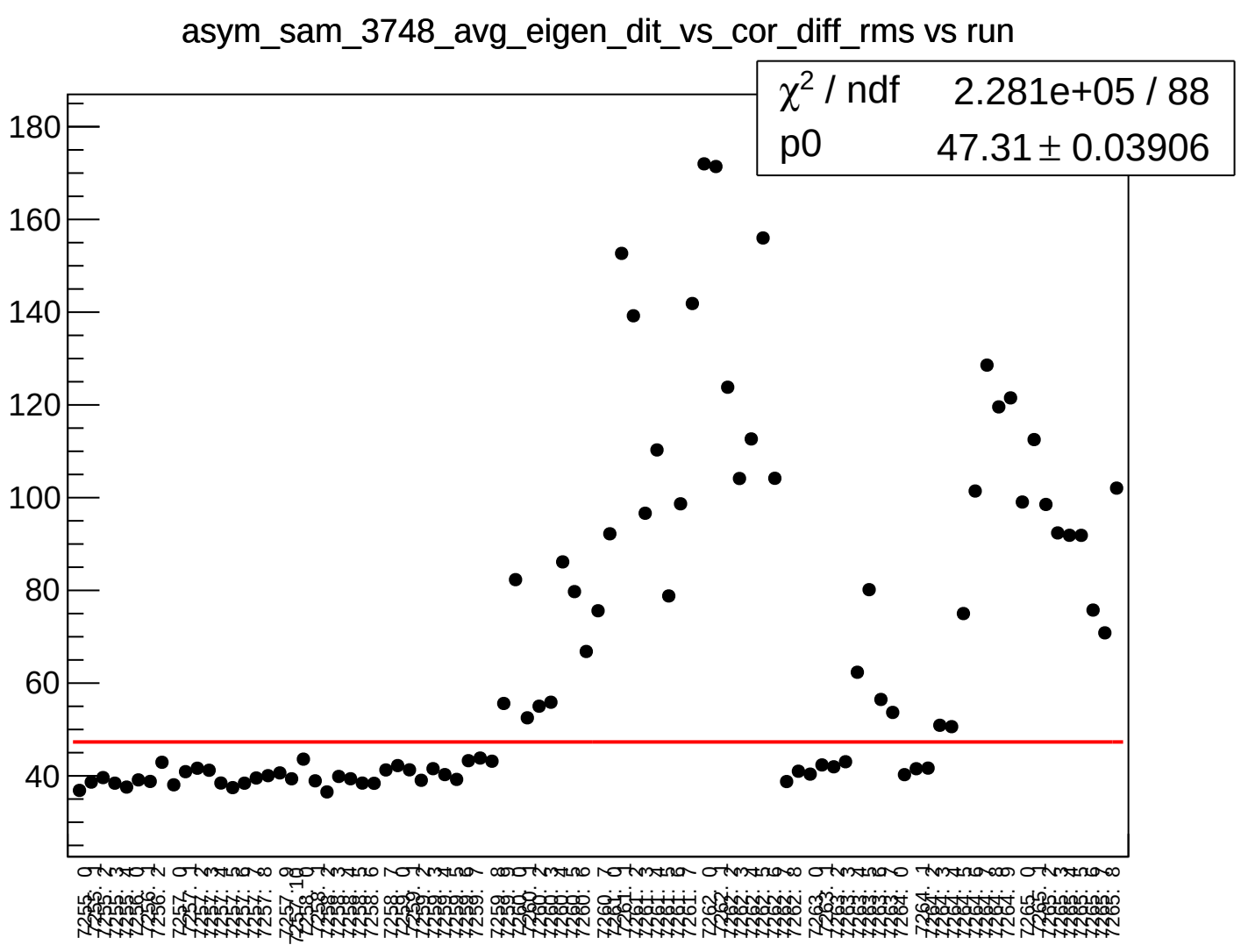

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.281e+05 / 88
p0 47.31 ± 0.03906
180
160
140
120
100
80
60
40

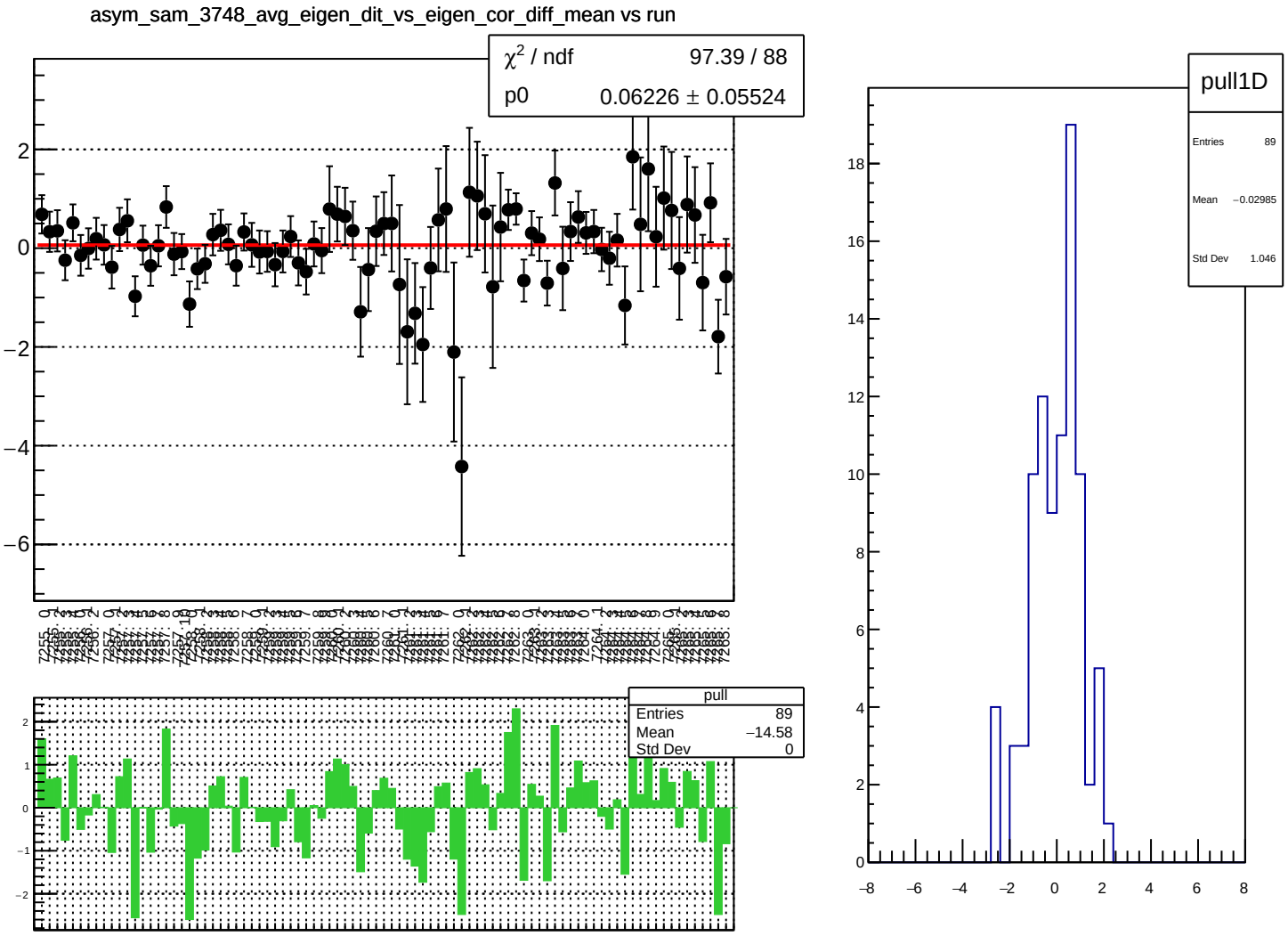

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.85 / 88
p0 2.187e−06 ± 2.481e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean −1703
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

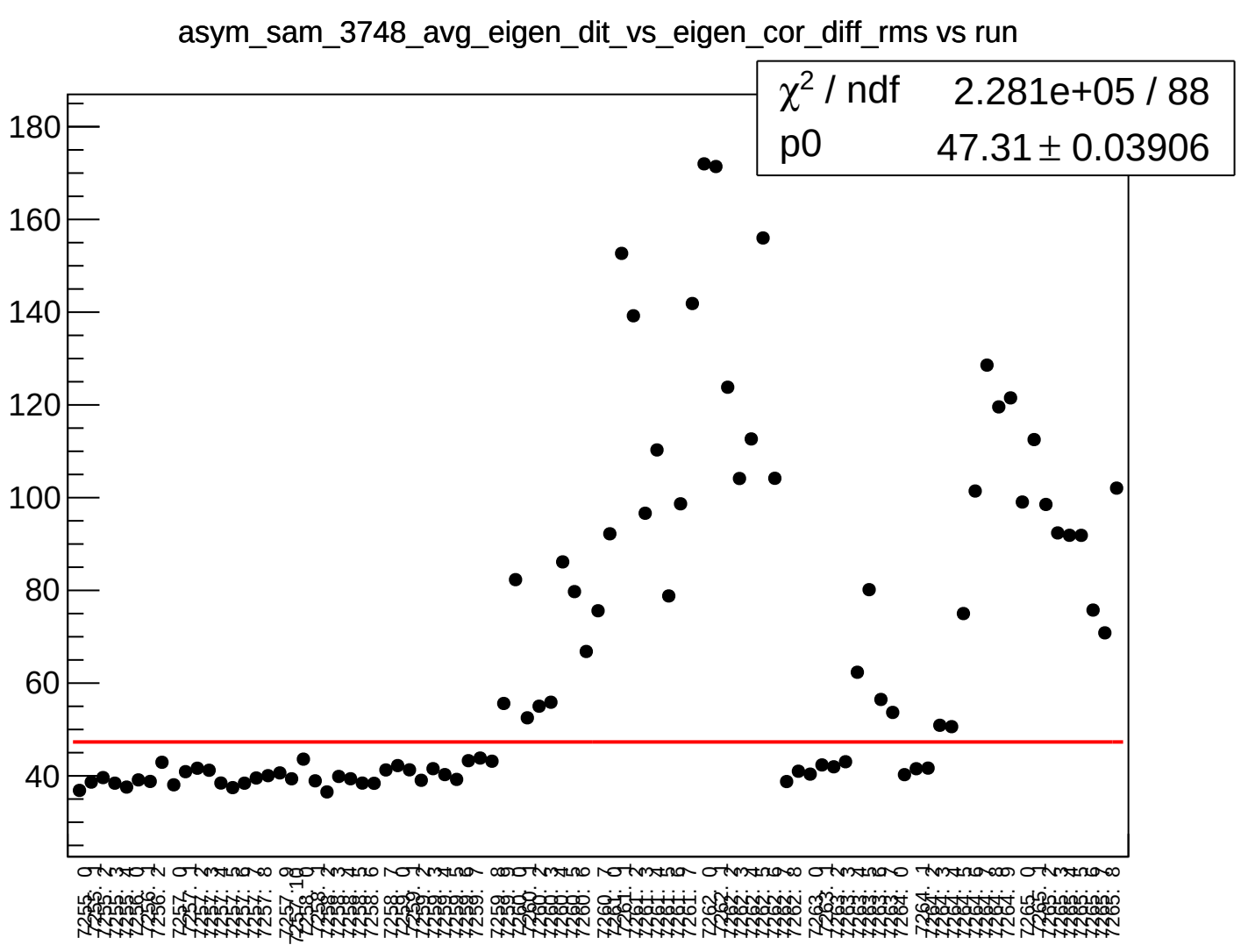

pull1D
Entries 89
Mean 0.0005631
Std Dev 0.8731
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

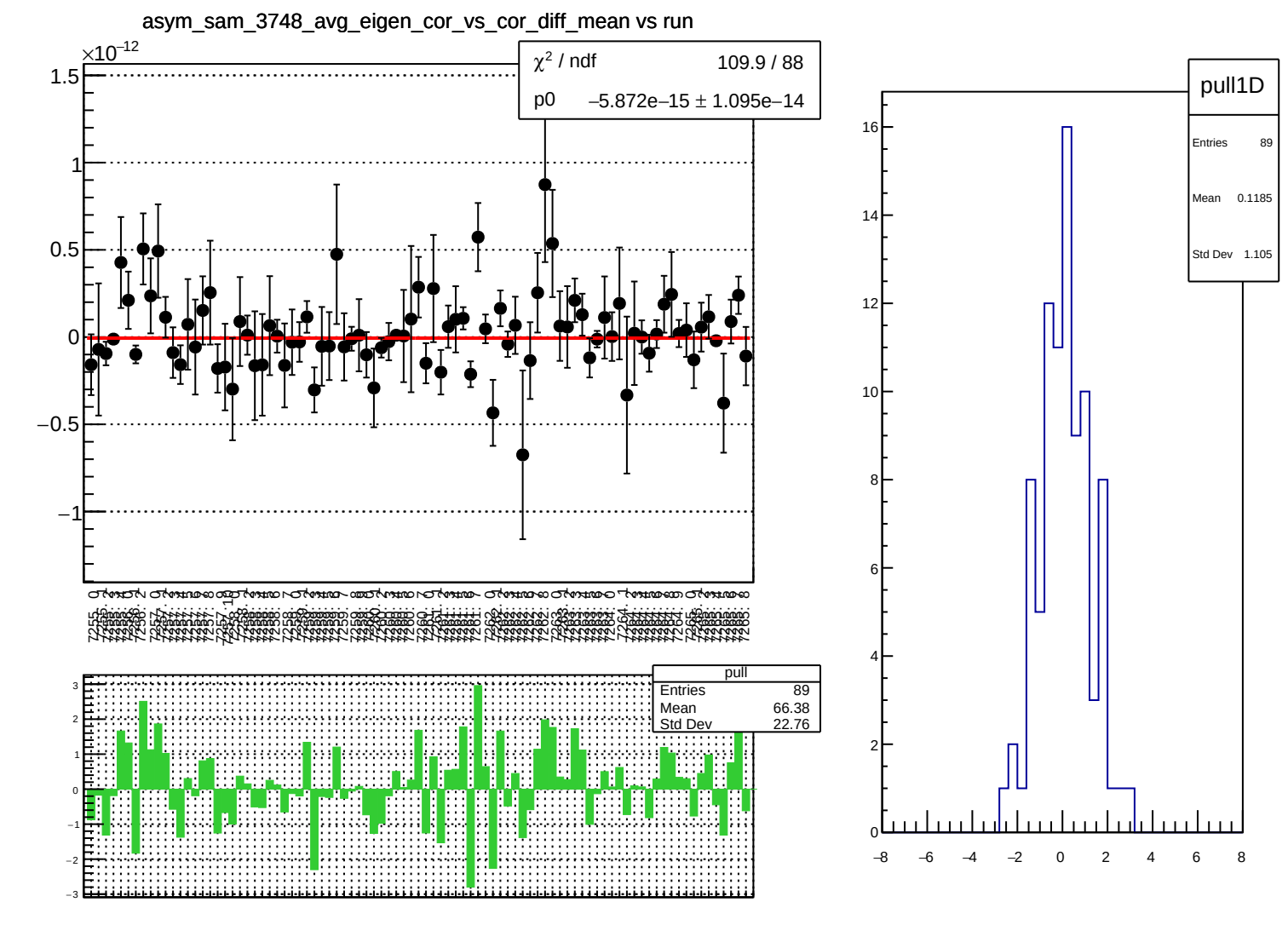

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2705 / 88
p0 0.002282 ± 1.754e−06
0.00255
0.0025
0.00245
0.0024
0.00235
0.0023
0.00225
0.0022
0.00215
0.0021

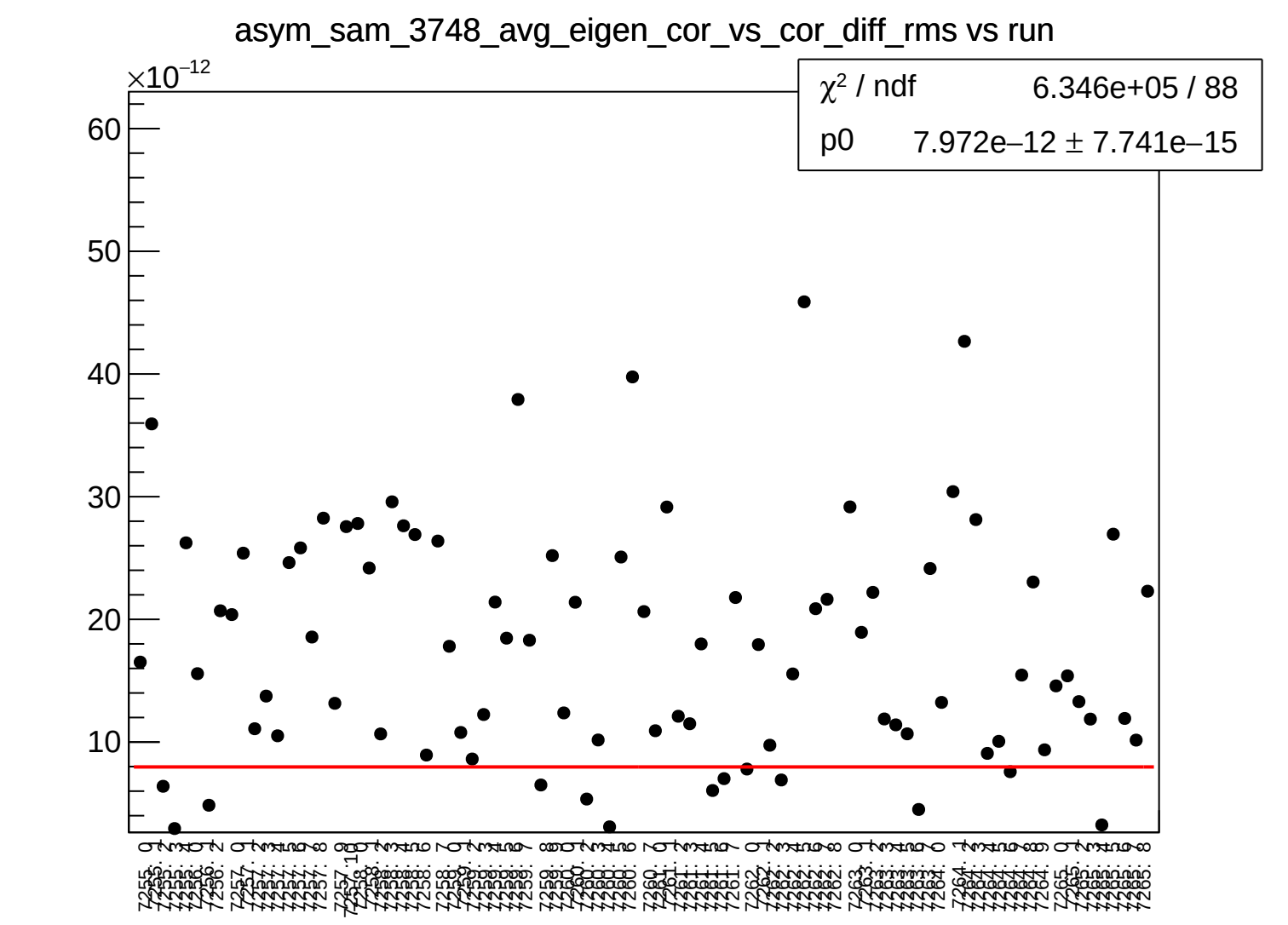

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.39 / 88
p0 0.06226 ± 0.05524
pull
Entries 89
Mean −14.58
Std Dev 0
pull1D
Entries 89
Mean −0.02985
Std Dev 1.046

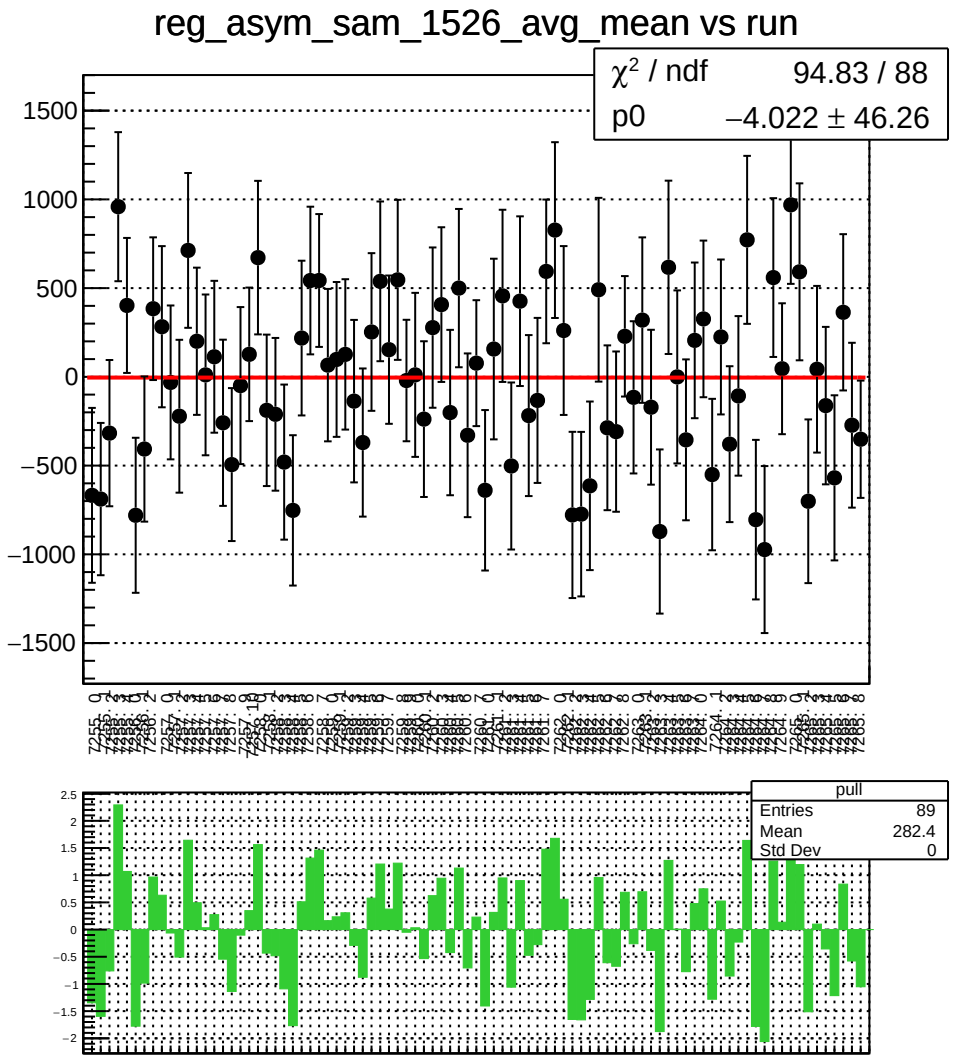

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.281e+05 / 88
p0 47.31 ± 0.03906
180
160
140
120
100
80
60
40

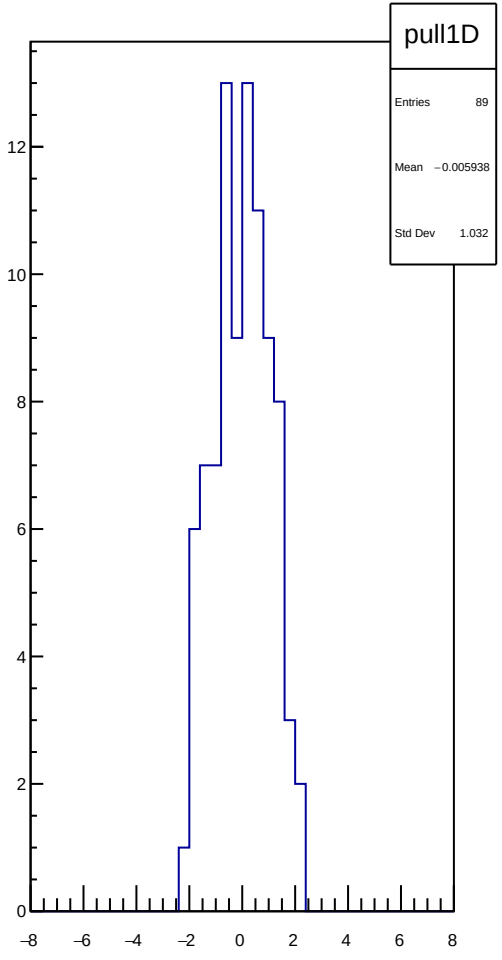

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.39 / 88
p0 0.06226 ± 0.05524
pull
Entries 89
Mean −14.58
Std Dev 0
pull1D
Entries 89
Mean −0.02985
Std Dev 1.046

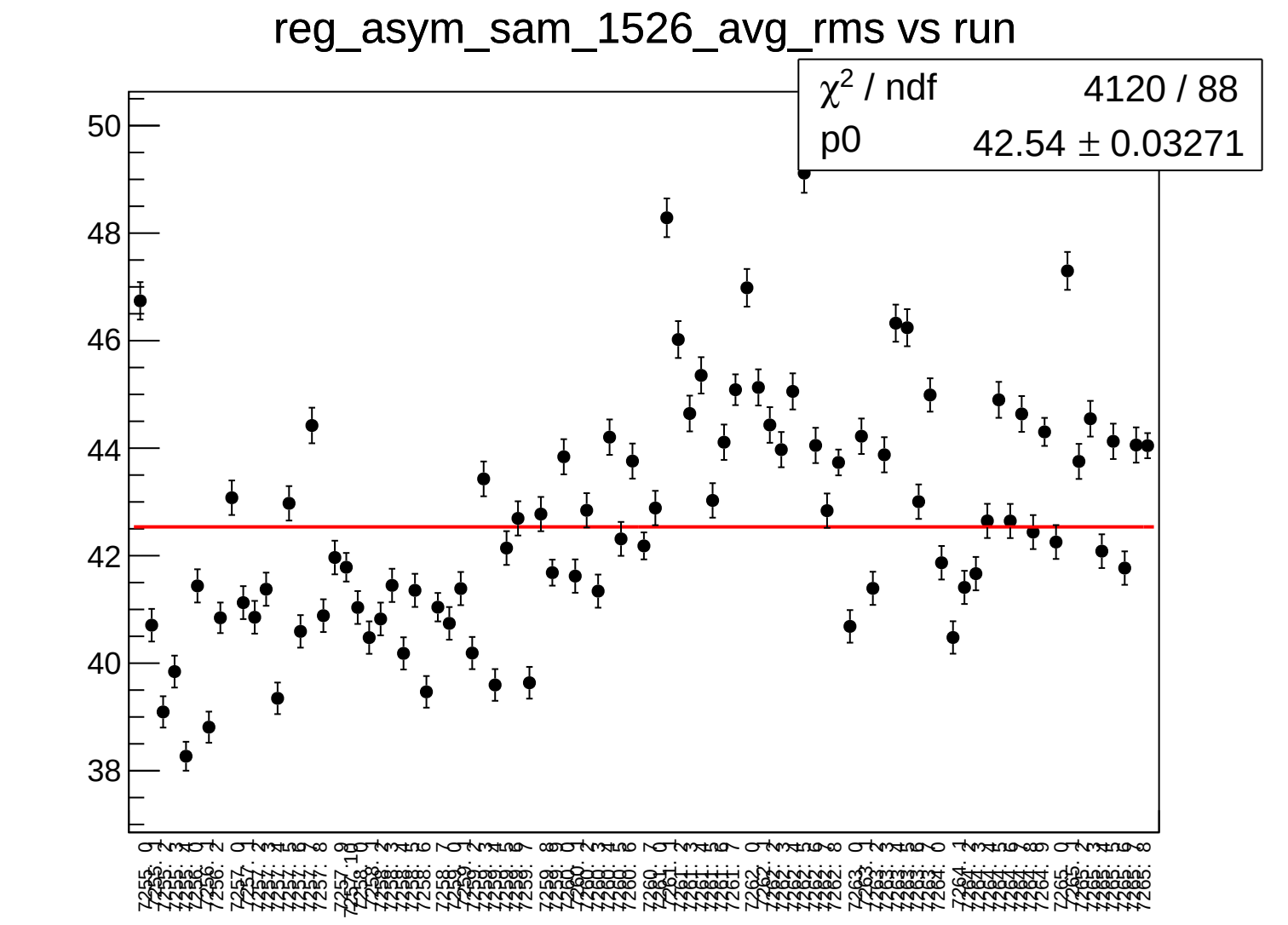

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.281e+05 / 88
p0 47.31 ± 0.03906
180
160
140
120
100
80
60
40

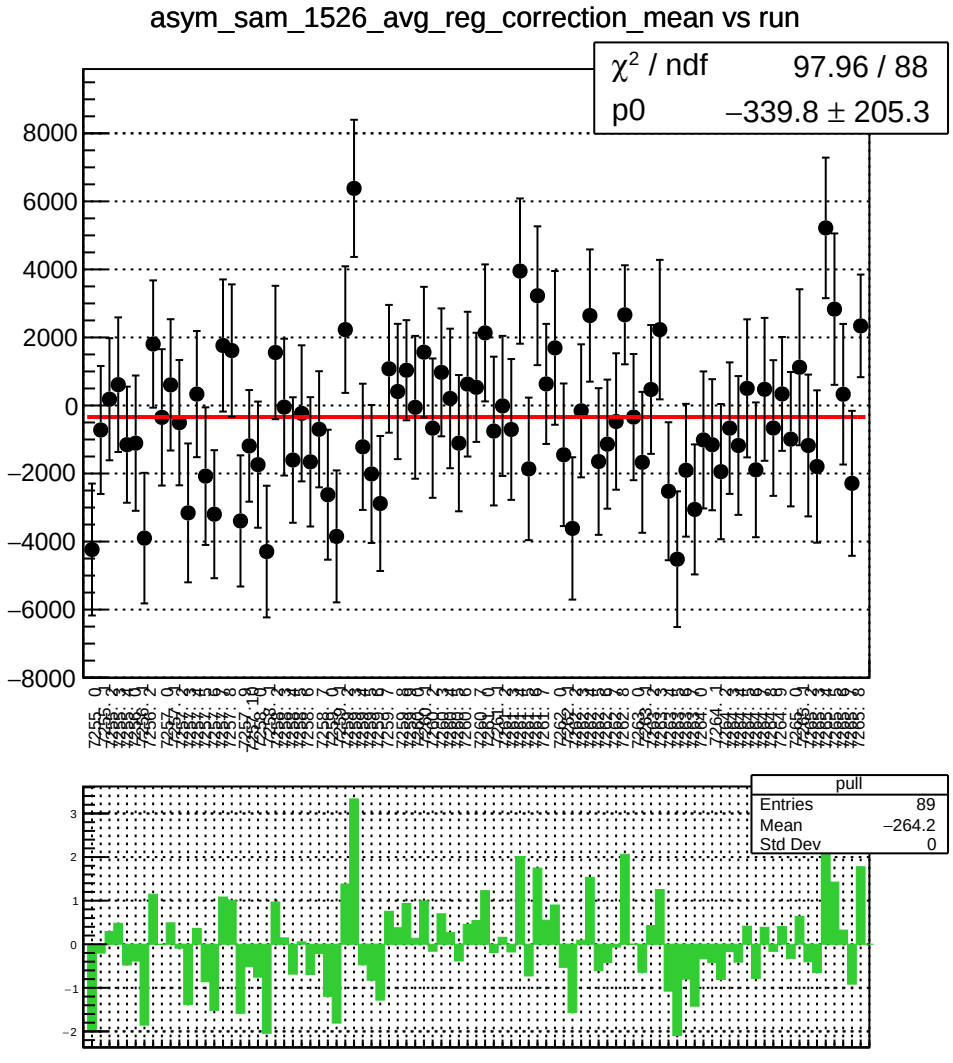

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.9 / 88
p0 −5.872e−15 ± 1.095e−14
pull
Entries 89
Mean 66.38
Std Dev 22.76
pull1D
Entries 89
Mean 0.1185
Std Dev 1.105

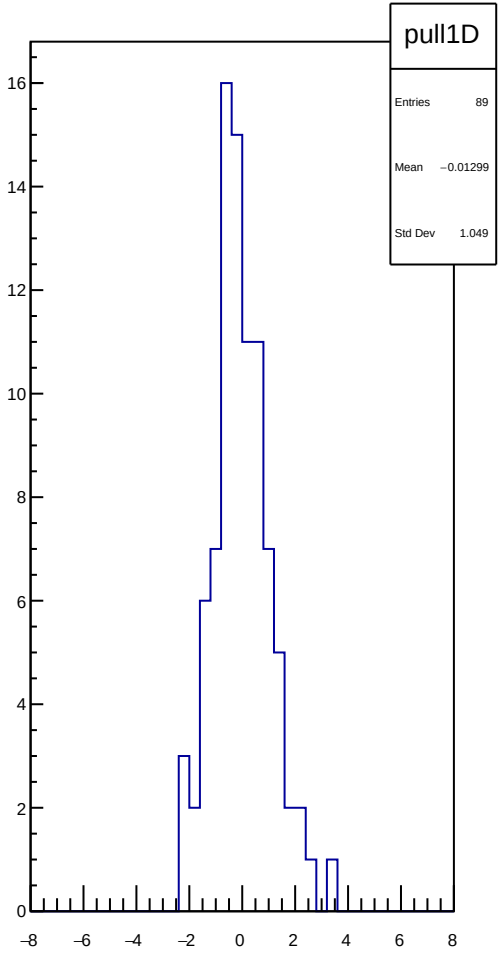

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.346e+05 / 88
p0 7.972e−12 ± 7.741e−15
60
50
40
30
20
10

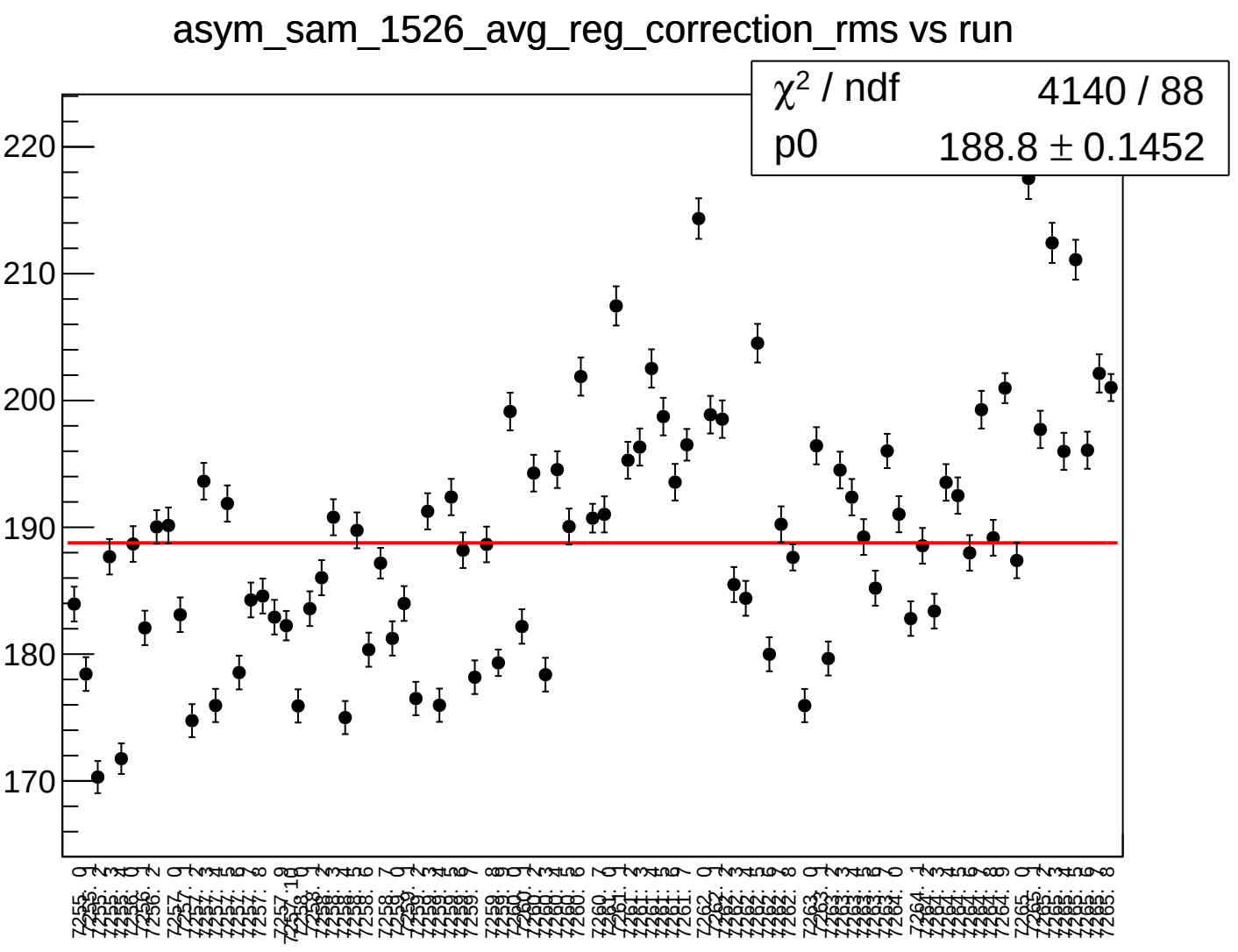

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 94.83 / 88
p0 −4.022 ± 46.26
pull
Entries 89
Mean 282.4
Std Dev 0

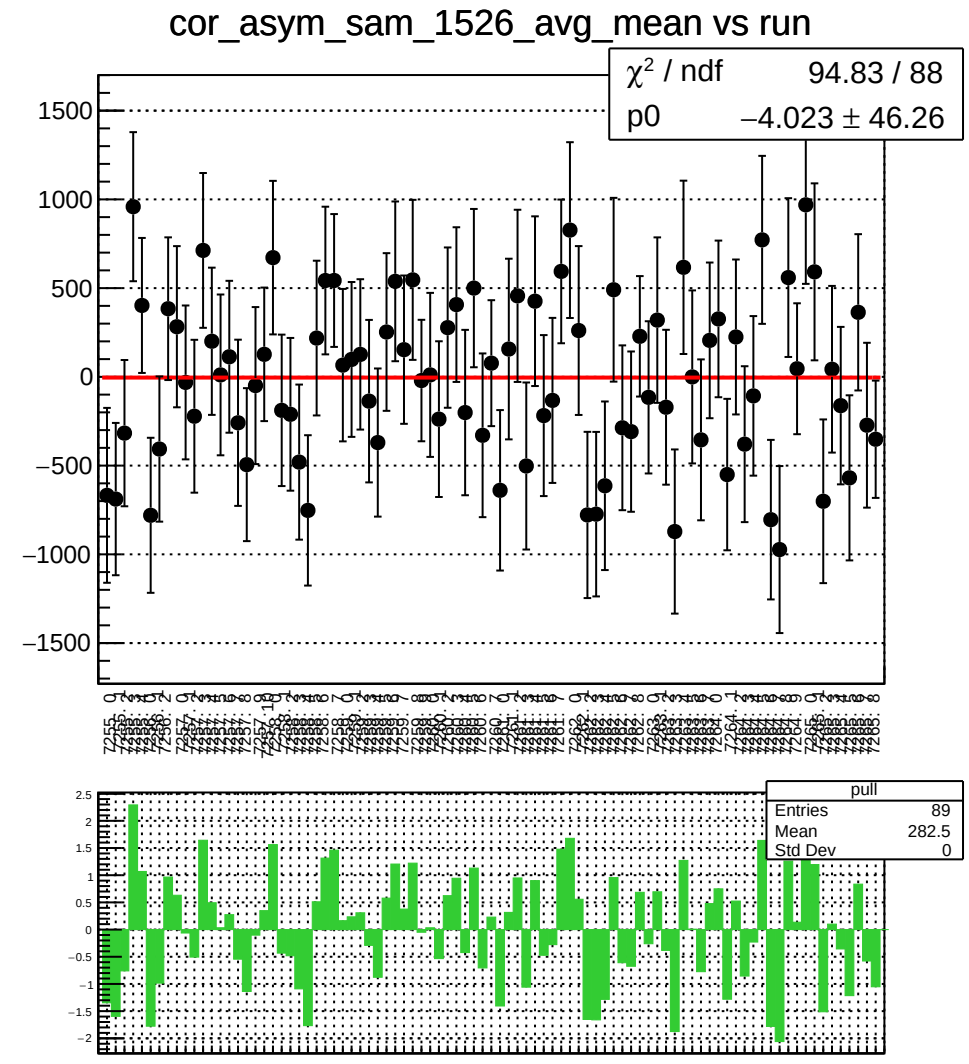

pull1D
Entries 89
Mean −0.005938
Std Dev 1.032

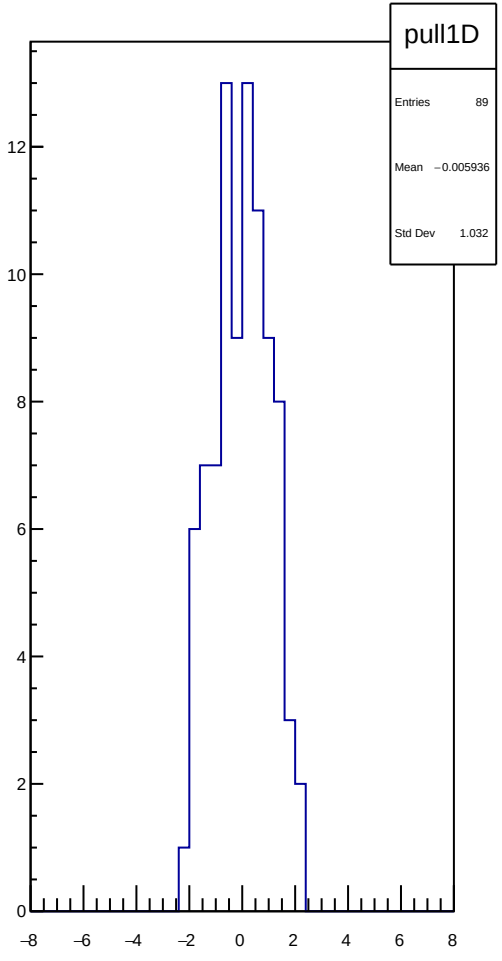

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 4120 / 88
p0 42.54 ± 0.03271
50
48
46
44
42
40
38

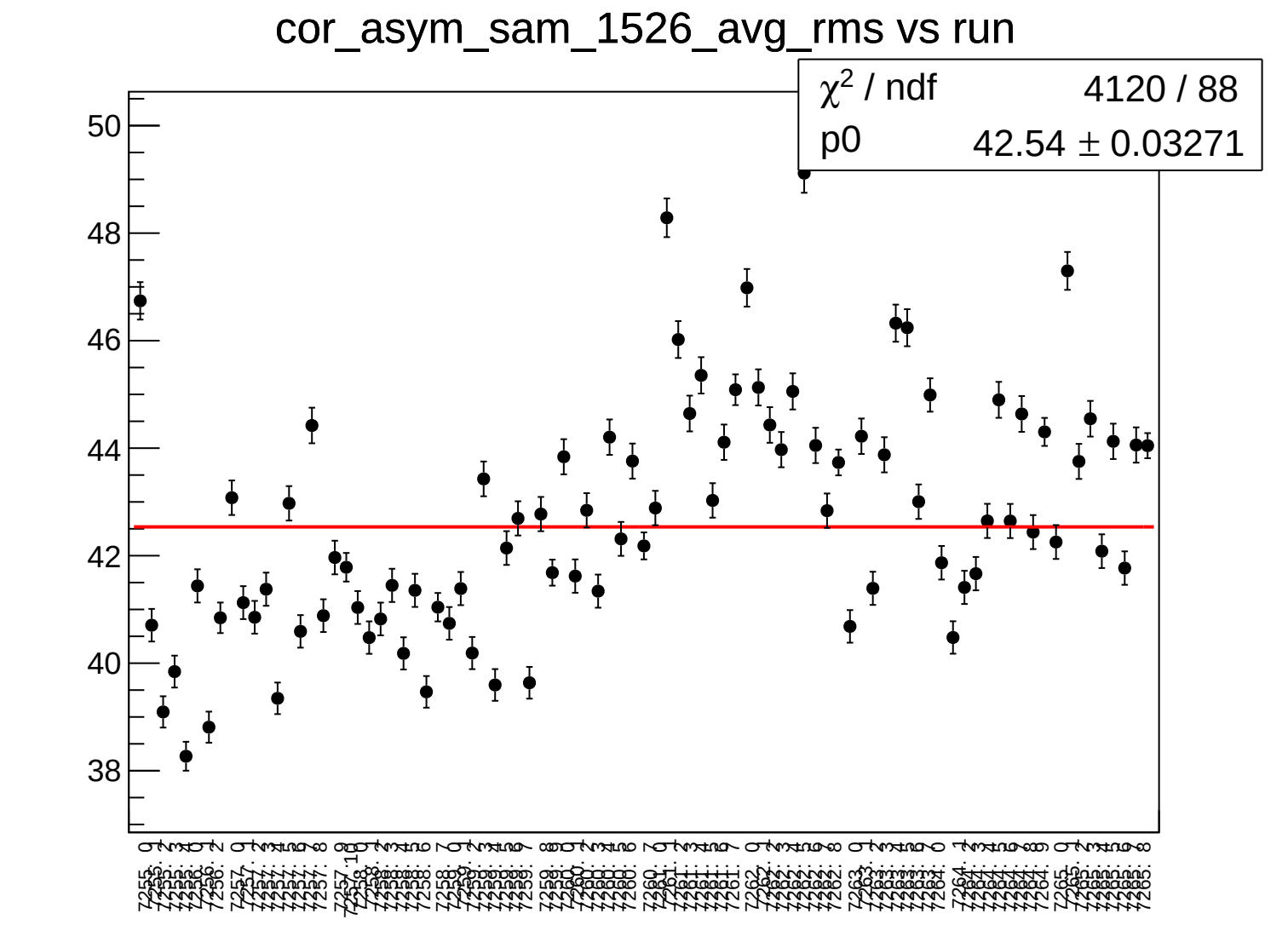

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 97.96 / 88
p0 −339.8 ± 205.3
pull
Entries 89
Mean −264.2
Std Dev 0

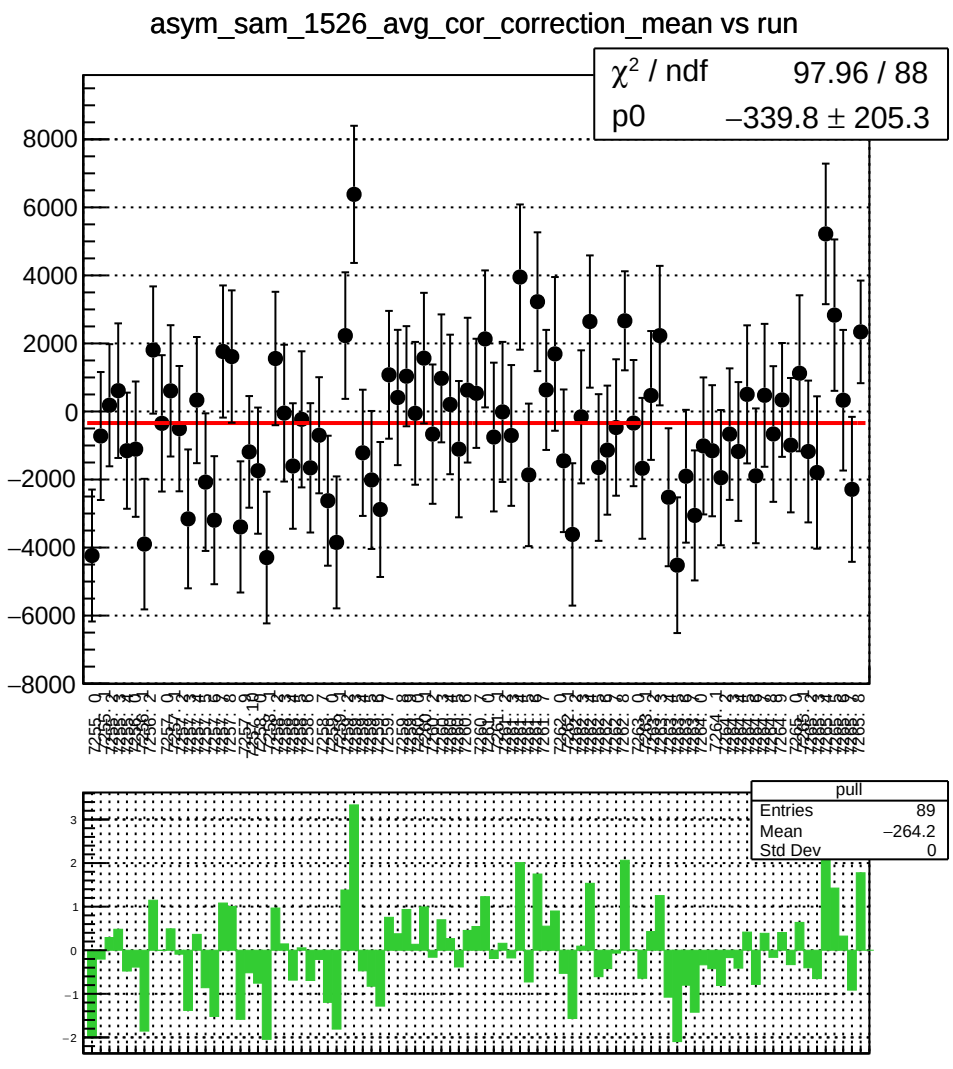

pull1D
Entries 89
Mean −0.01299
Std Dev 1.049

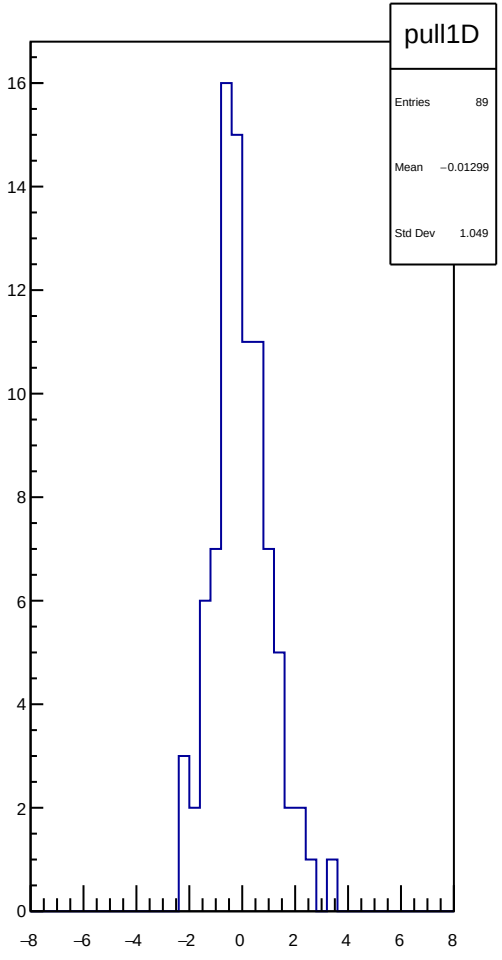

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 4140 / 88
p0 188.8 ± 0.1452
220
210
200
190
180
170

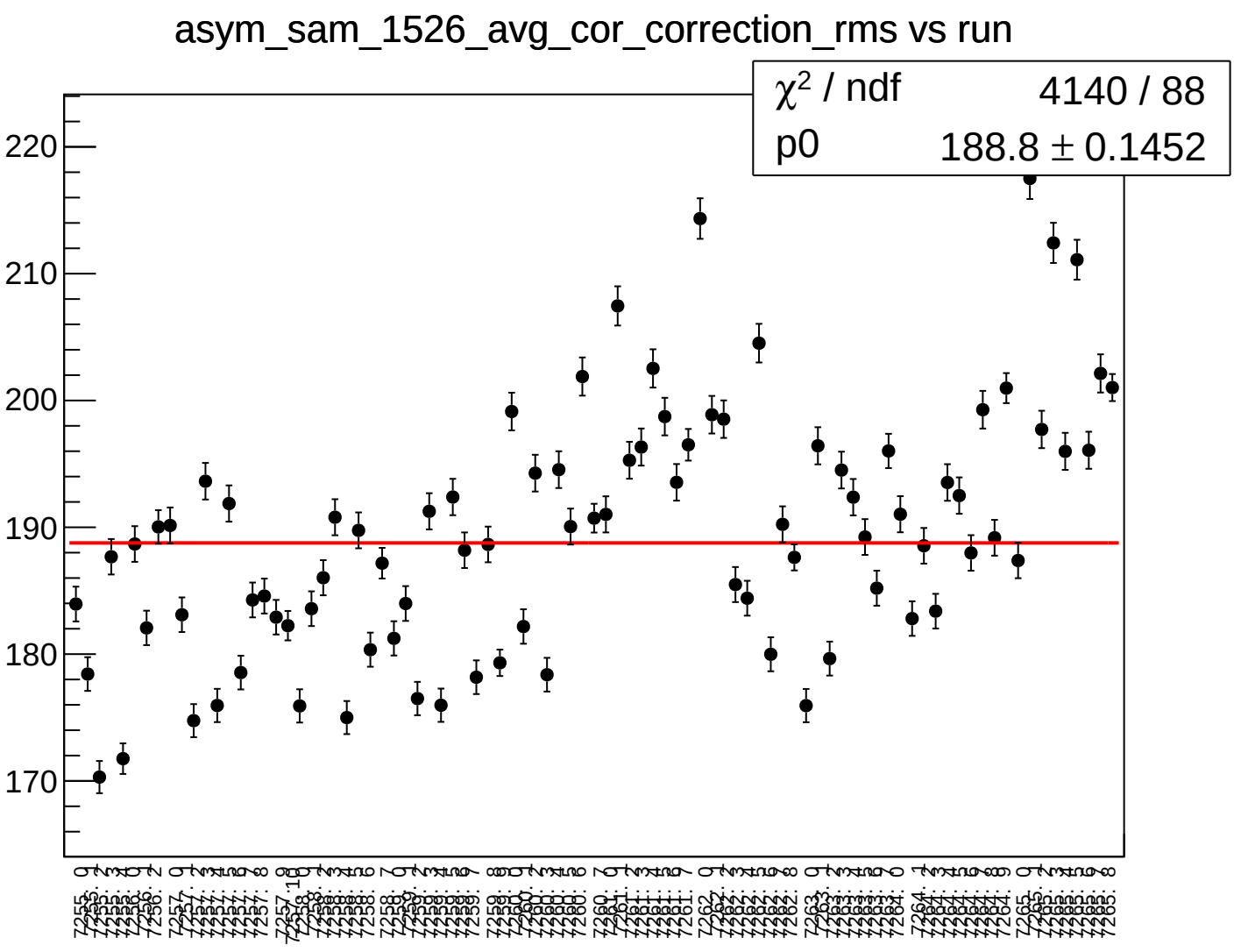

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 94.83 / 88
p0 −4.023 ± 46.26
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean 282.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

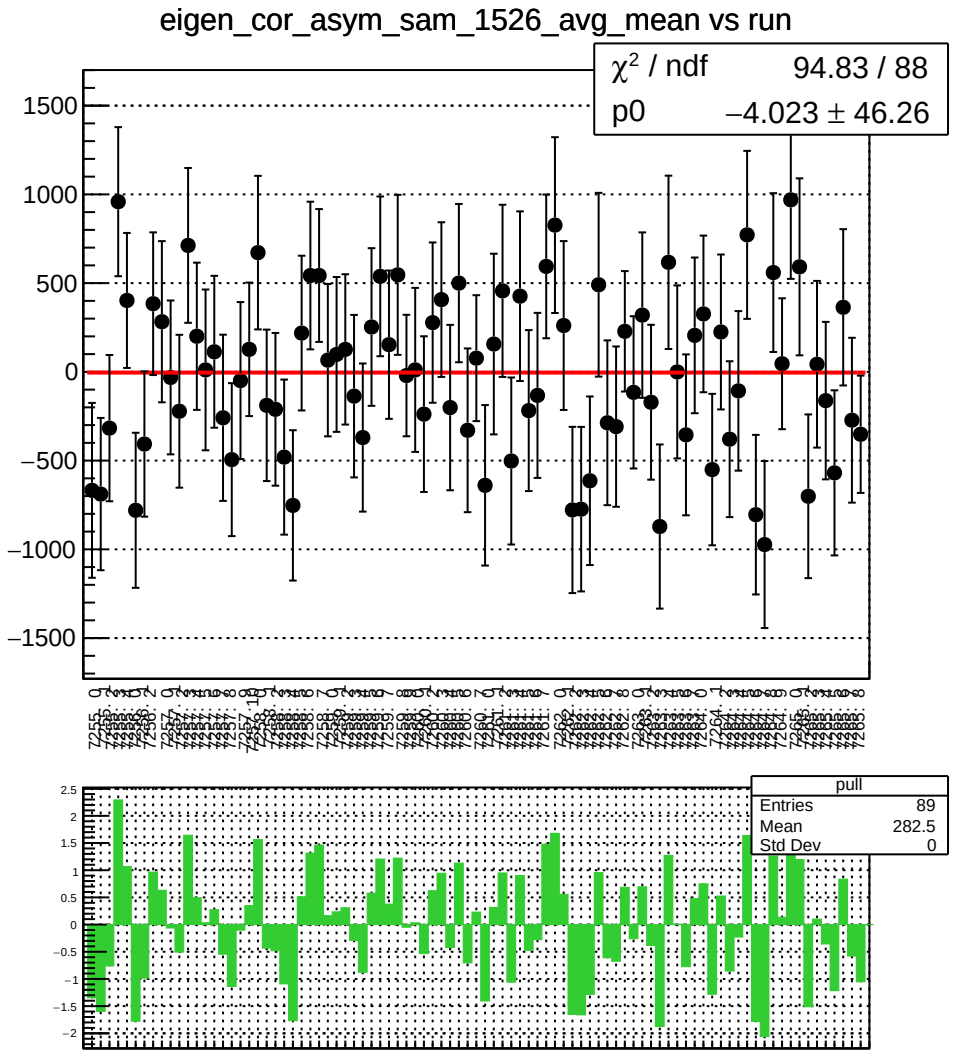

pull1D
Entries 89
Mean −0.005936
Std Dev 1.032
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

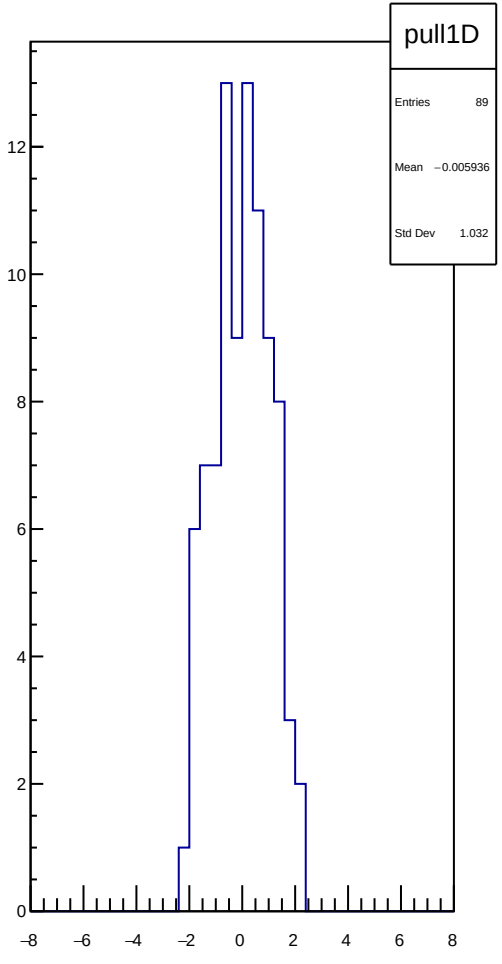

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 4120 / 88
p0 42.54 ± 0.03271
50
48
46
44
42
40
38

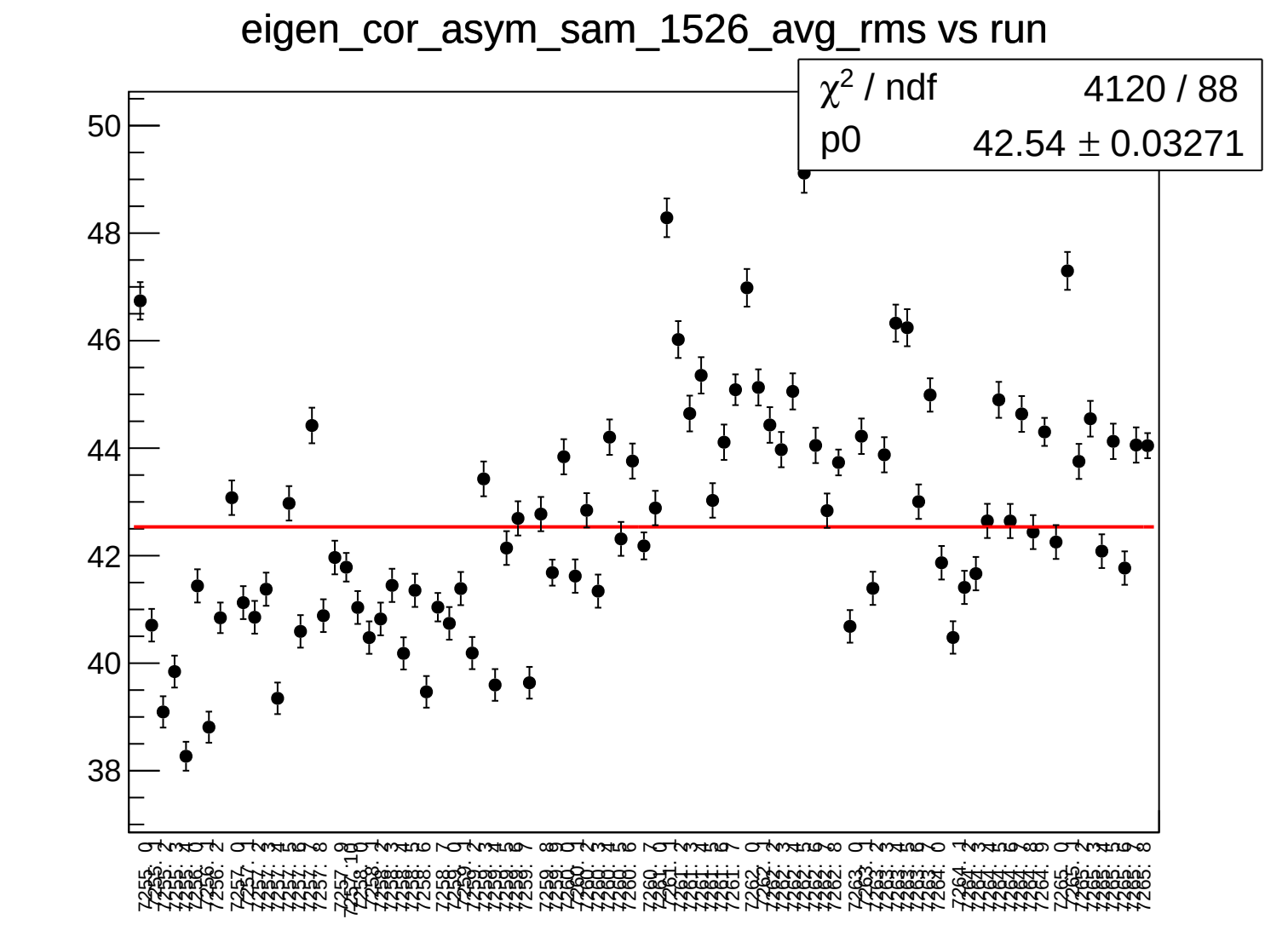

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 97.96 / 88
p0 −339.8 ± 205.3
pull
Entries 89
Mean −264.2
Std Dev 0

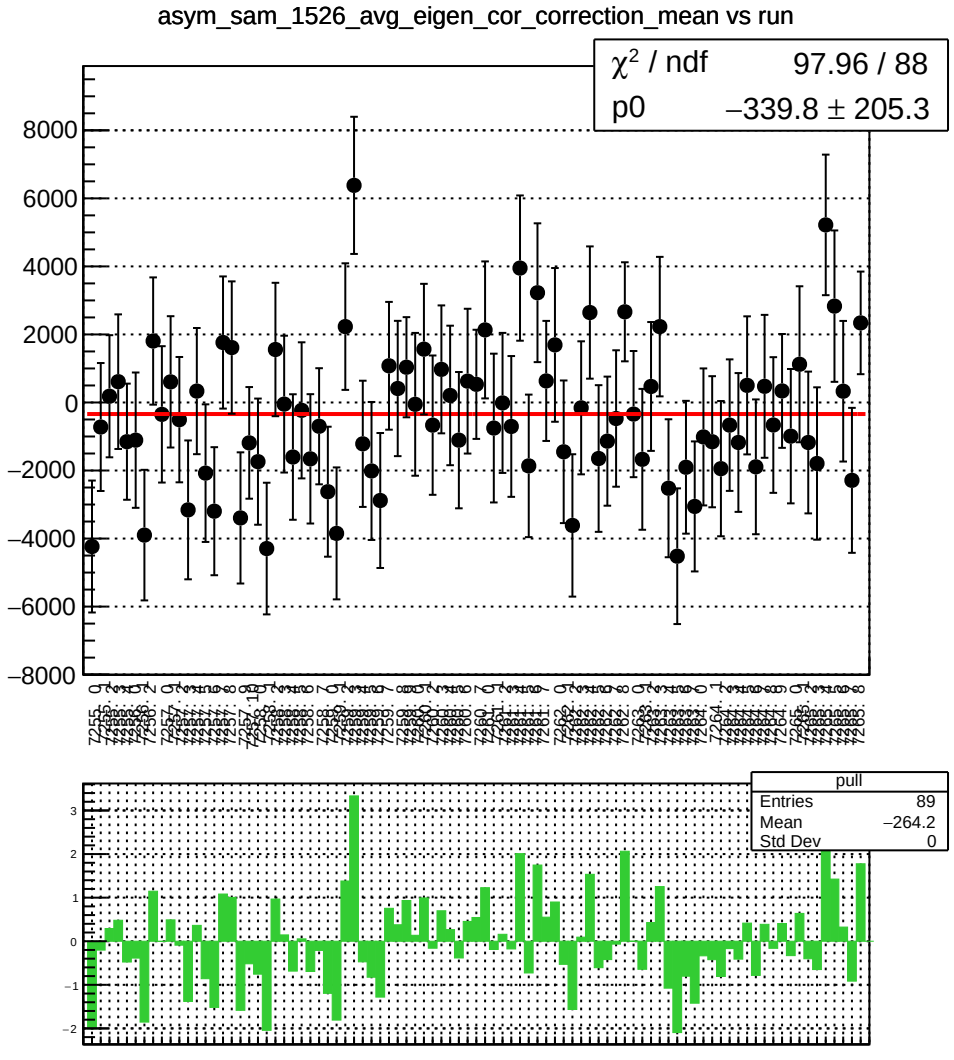

pull1D
Entries 89
Mean −0.01299
Std Dev 1.049

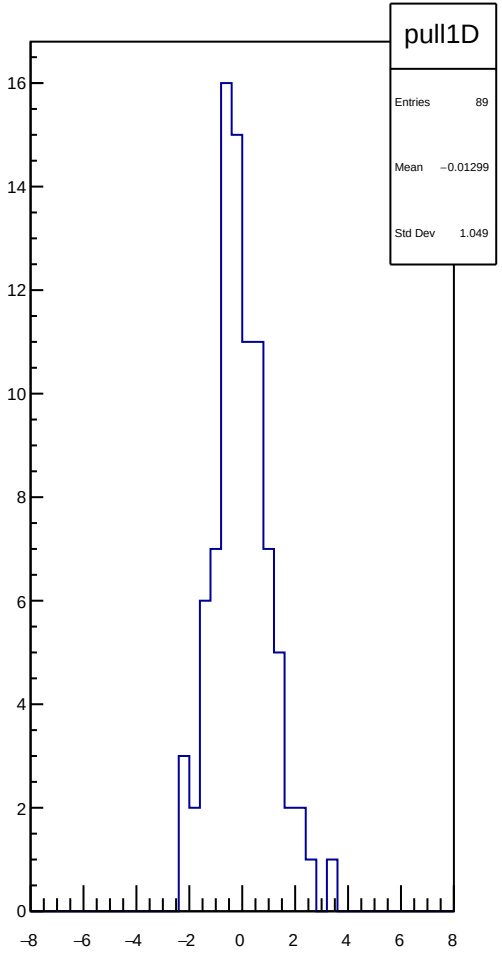

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 4140 / 88
p0 188.8 ± 0.1452
220
210
200
190
180
170

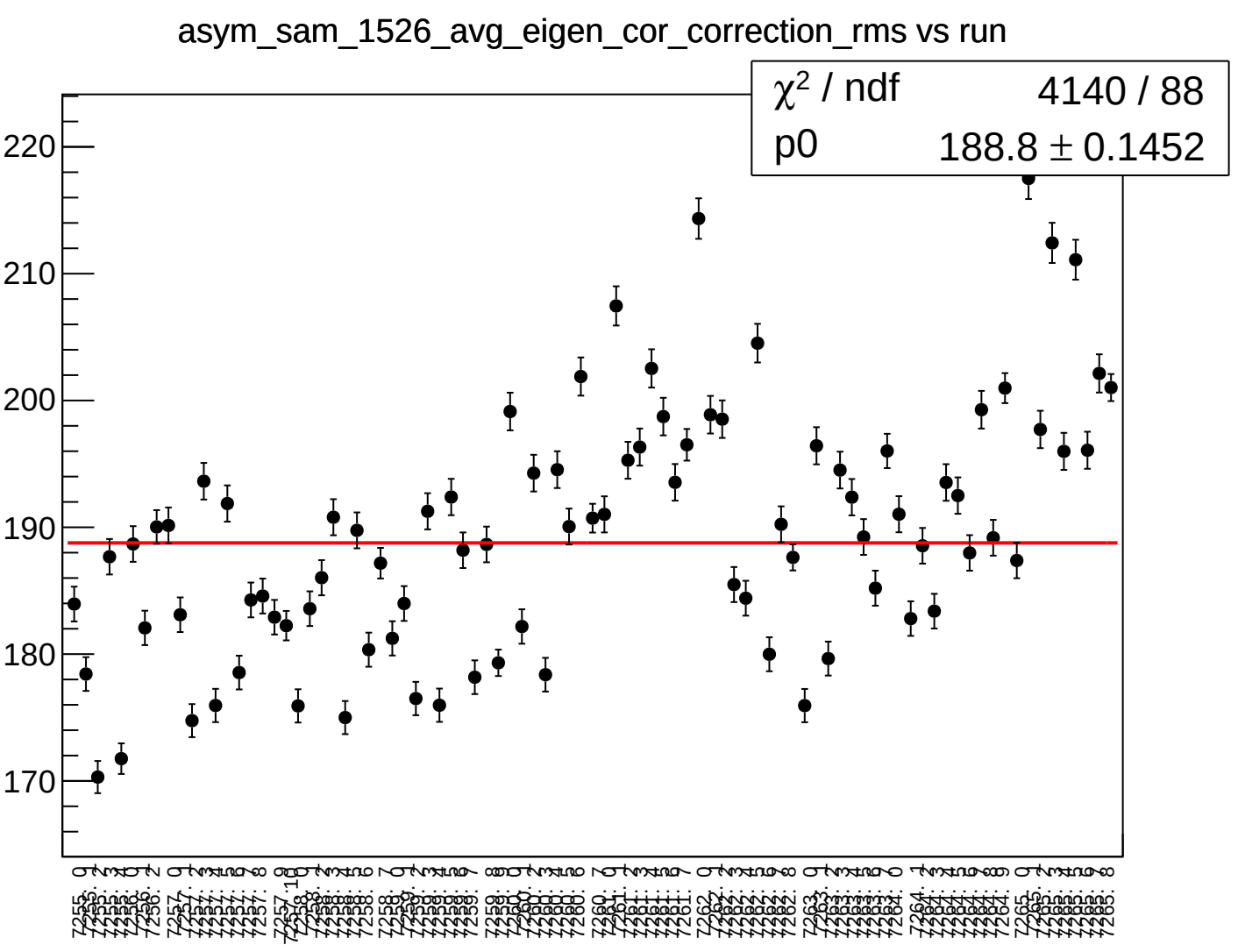

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 94.83 / 88
p0 −4.023 ± 46.26
pull
Entries 89
Mean 282.5
Std Dev 0

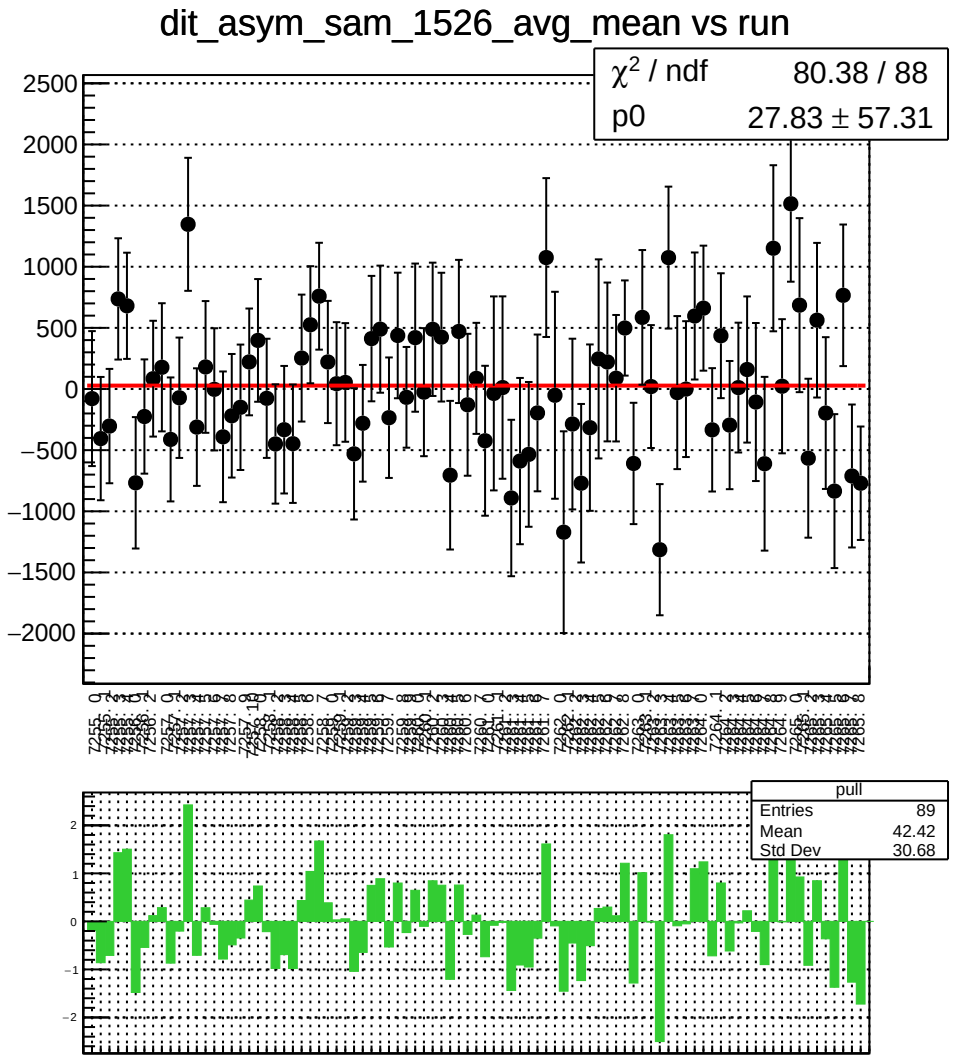

pull1D
Entries 89
Mean −0.005936
Std Dev 1.032

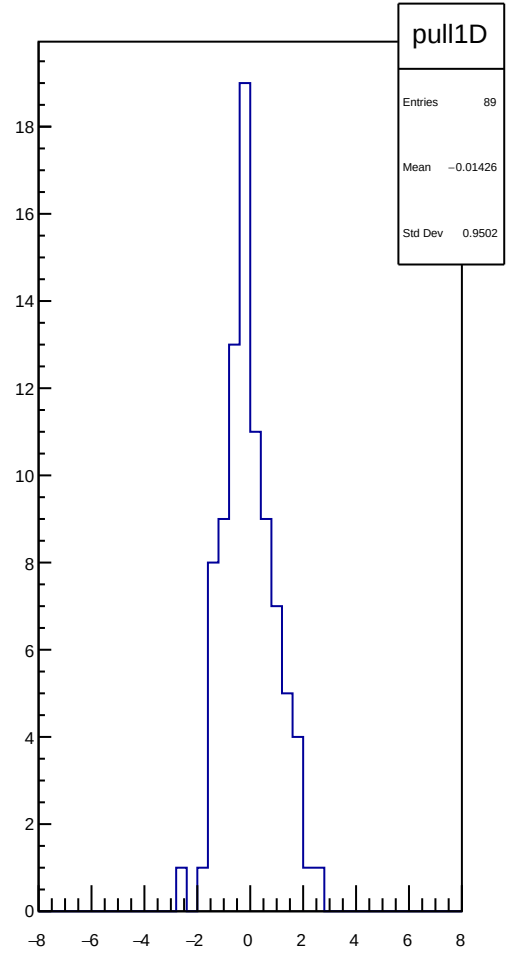

eigen_cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 4120 / 88
p0 42.54 ± 0.03271
50
48
46
44
42
40
38

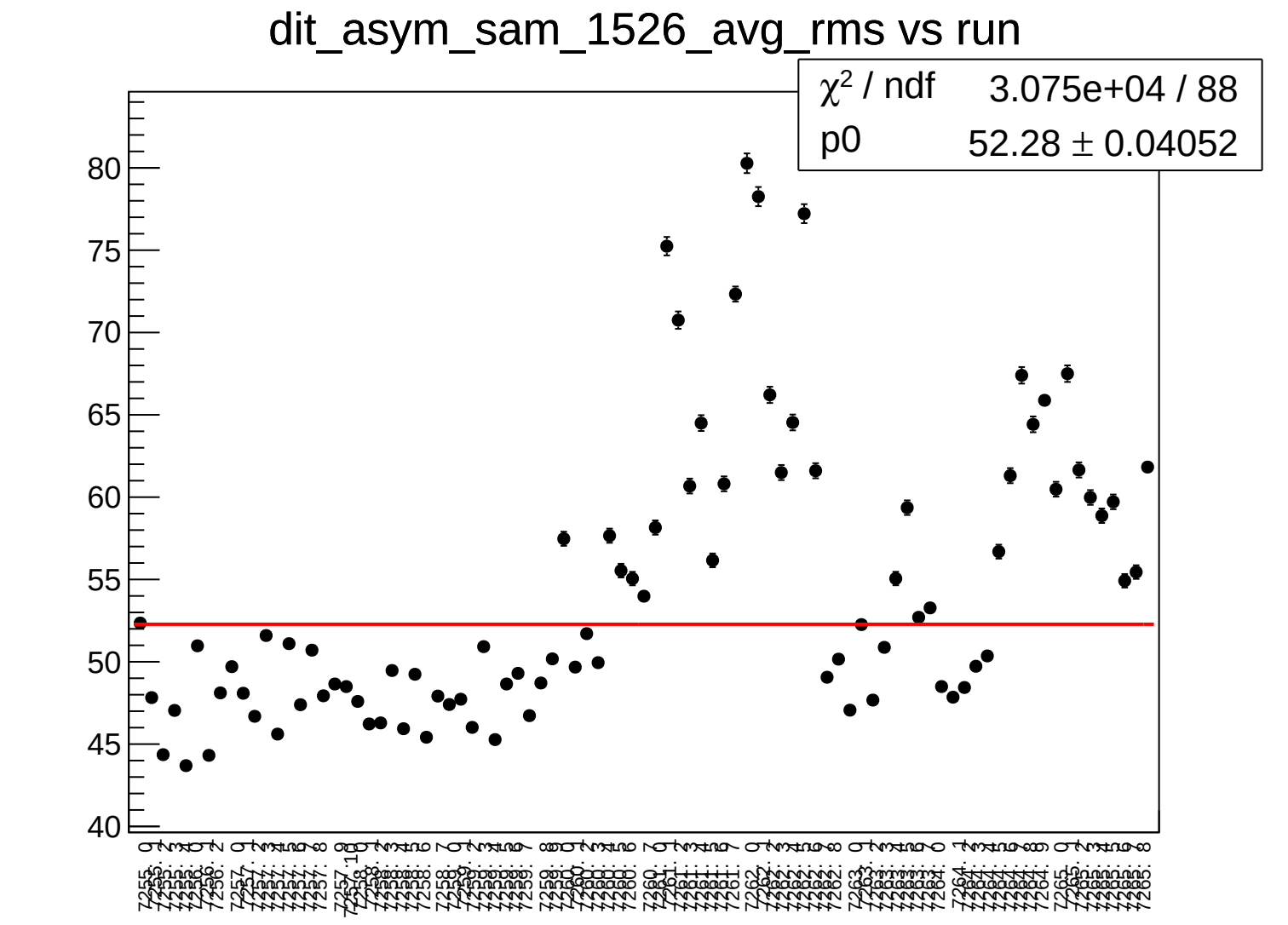

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.96 / 88
p0 −339.8 ± 205.3
pull
Entries 89
Mean −264.2
Std Dev 0

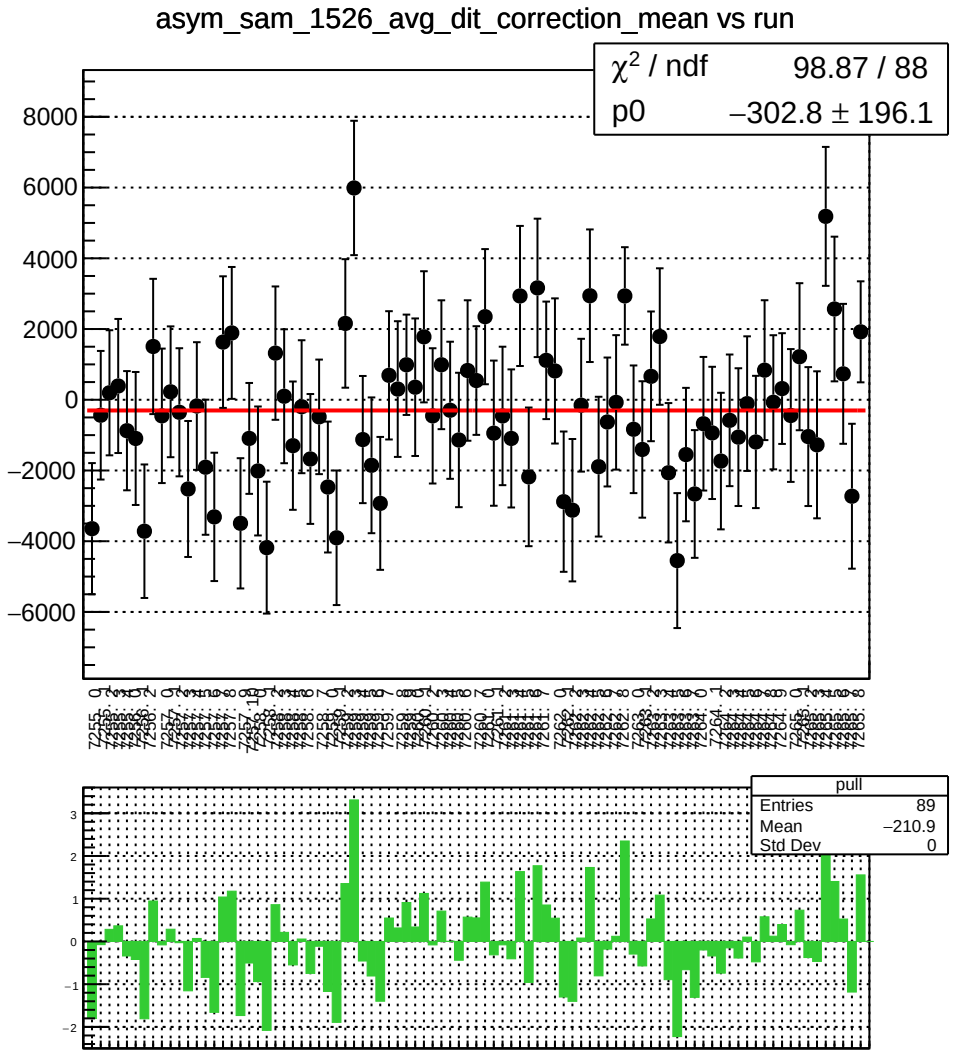

pull1D
Entries 89
Mean −0.01299
Std Dev 1.049

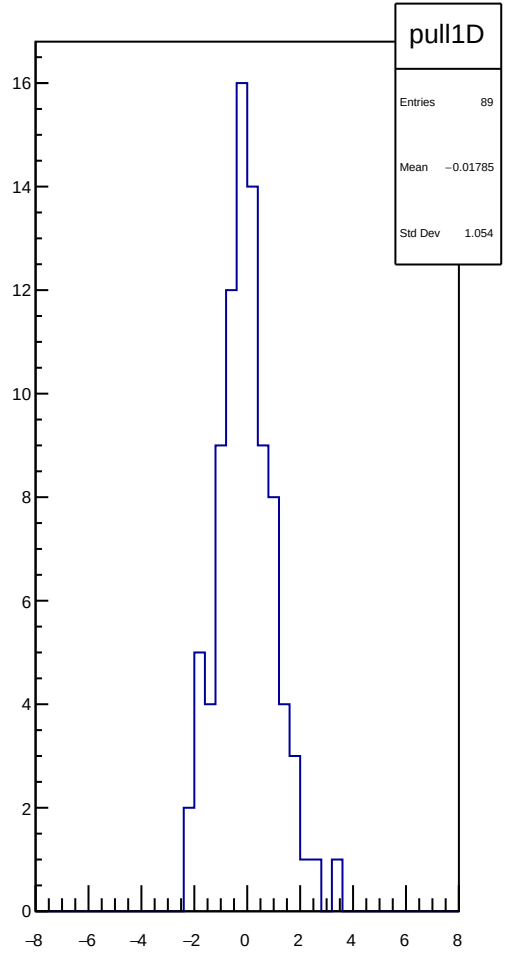

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 4140 / 88
p0 188.8 ± 0.1452
220
210
200
190
180
170

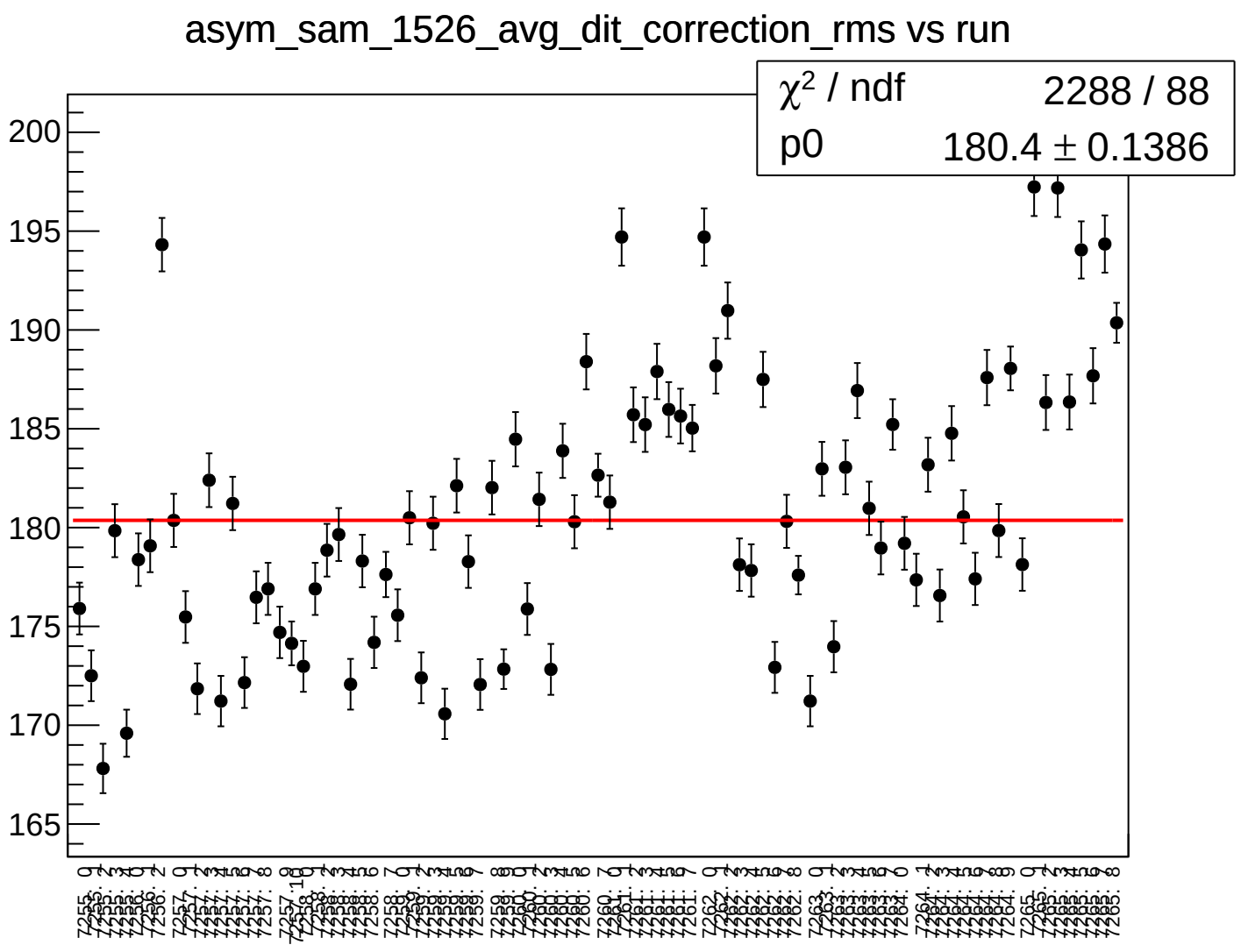

dit_asym_sam_1526_avg_mean vs run
χ^2 / ndf 80.38 / 88
p0 27.83 ± 57.31
pull
Entries 89
Mean 42.42
Std Dev 30.68

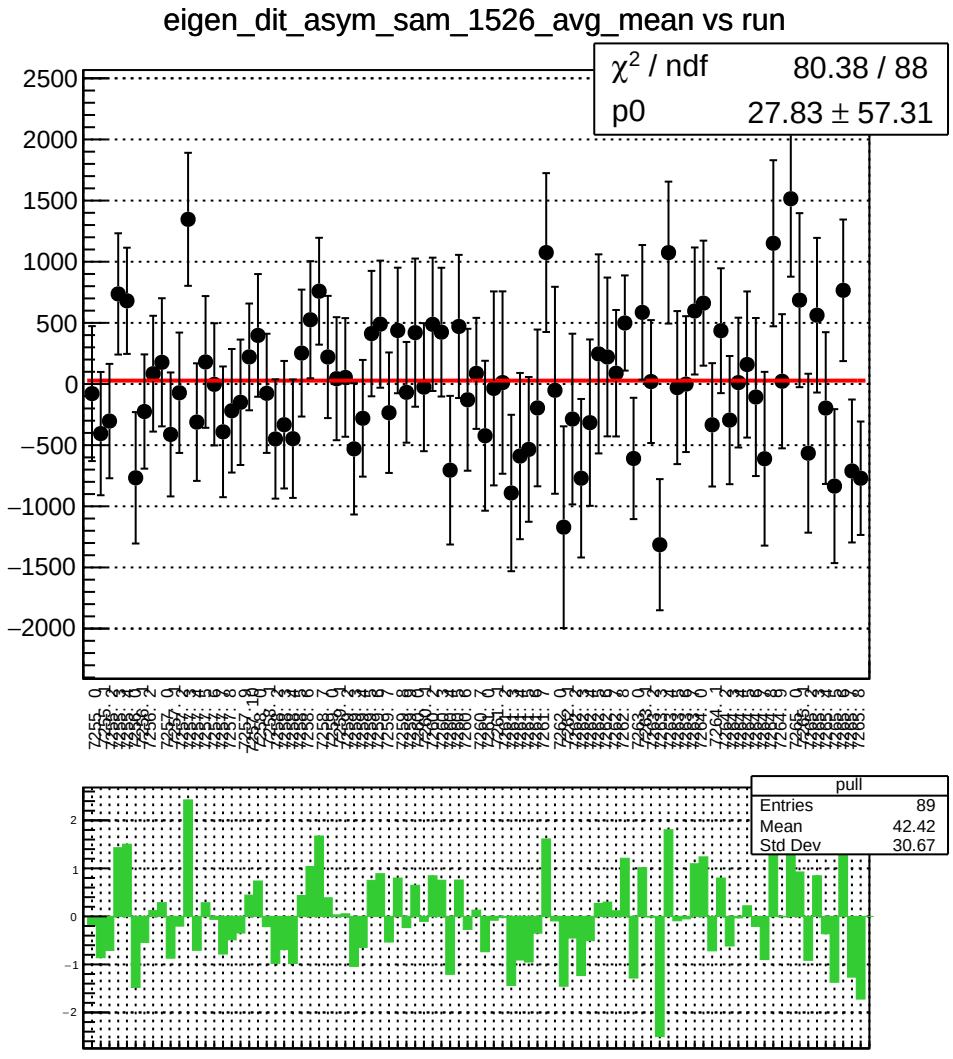

pull1D
Entries 89
Mean −0.01426
Std Dev 0.9502

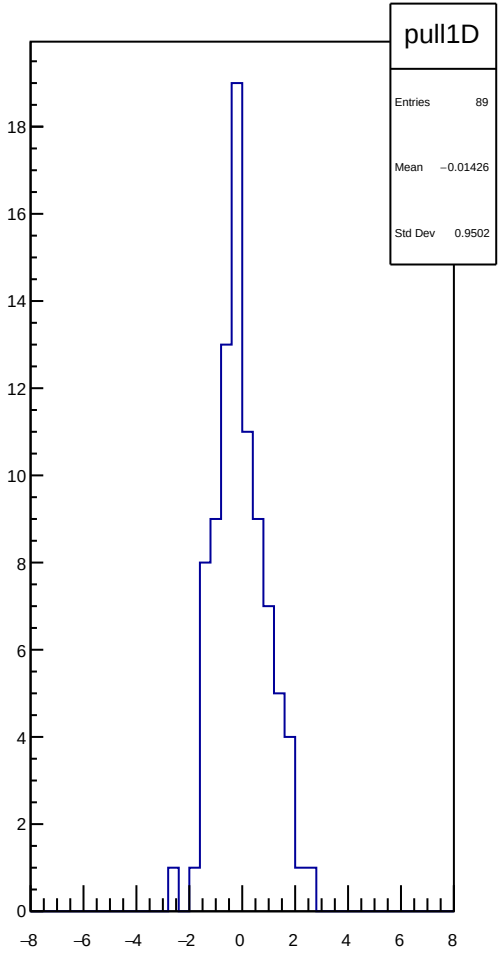

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3.075e+04 / 88
p0 52.28 ± 0.04052
80
75
70
65
60
55
50
45
40

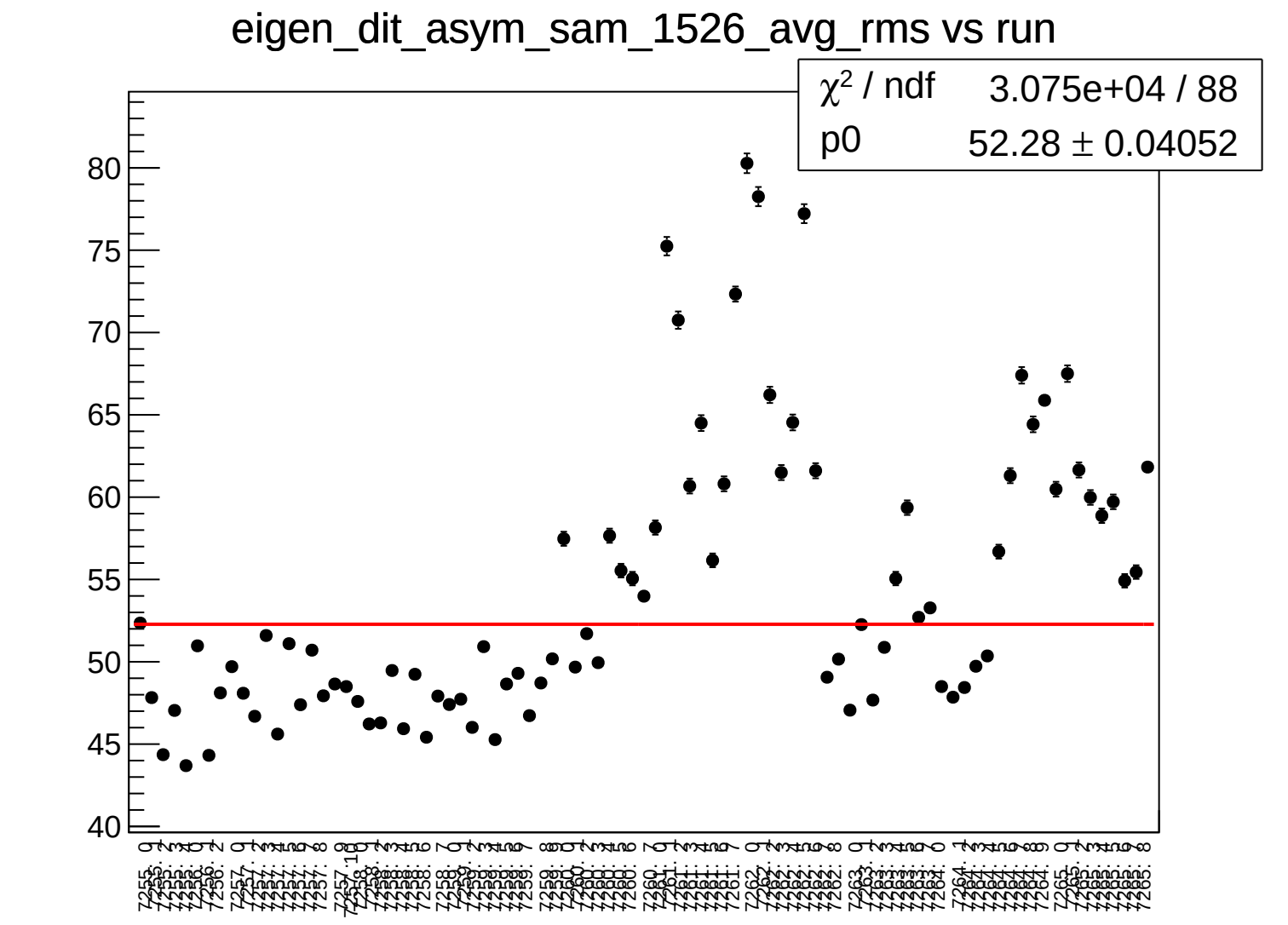

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 98.87 / 88
p0 −302.8 ± 196.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −210.9
Std Dev 0
3
2
1
0
−1
−2

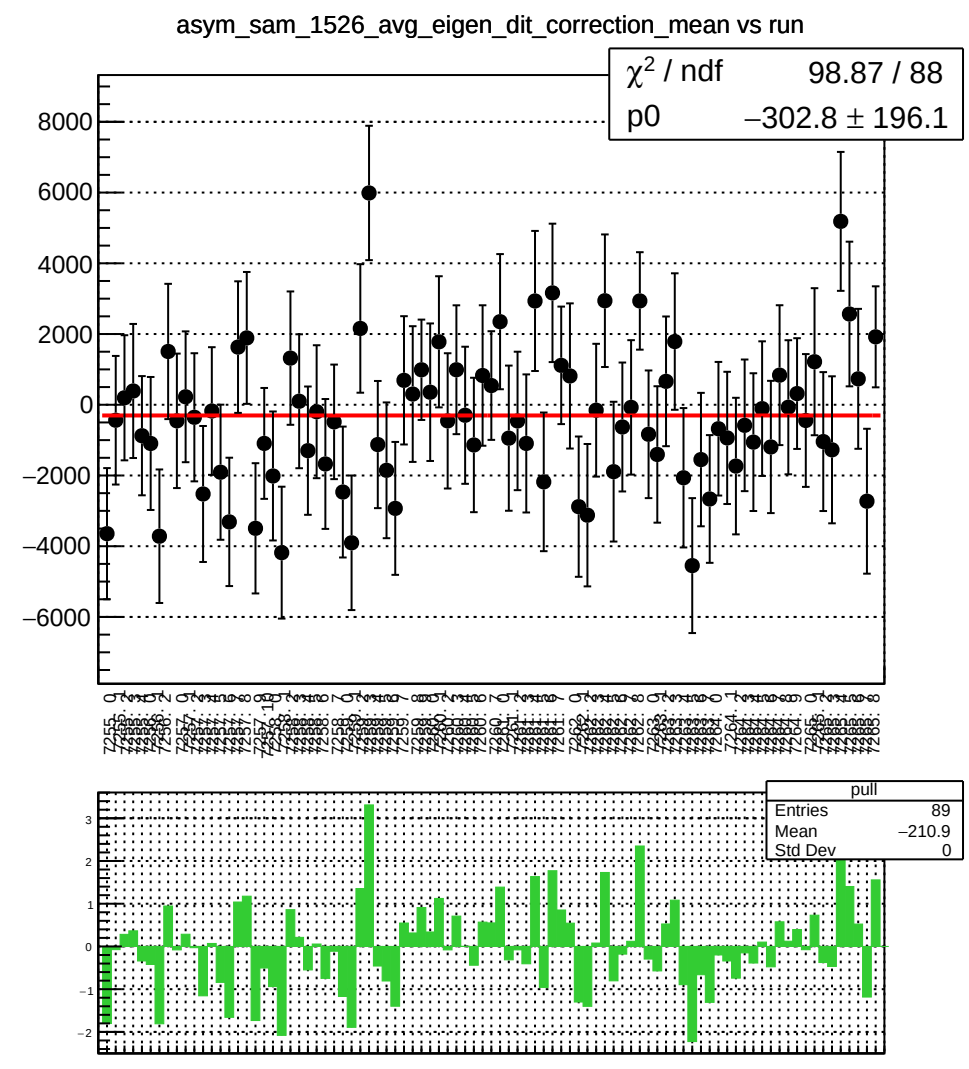

pull1D
Entries 89
Mean −0.01785
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

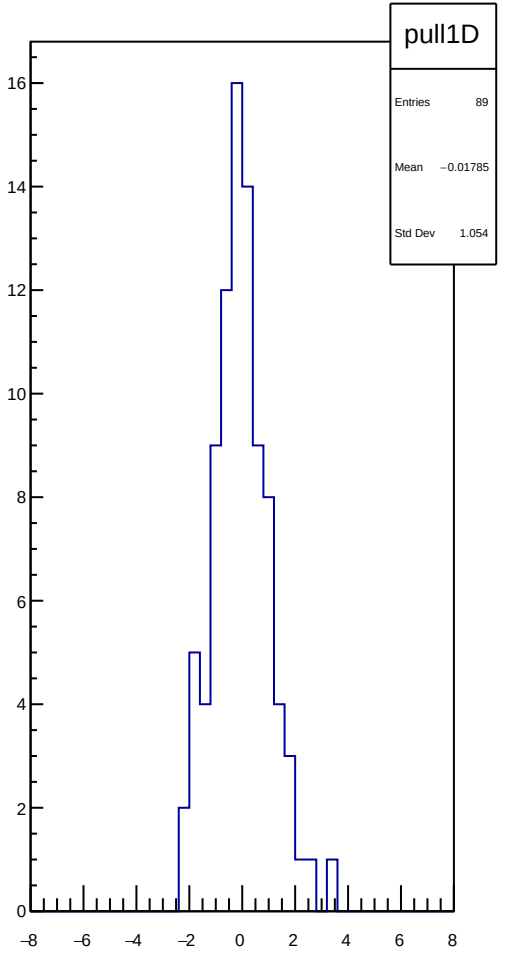

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 2288 / 88
p0 180.4 ± 0.1386
200
195
190
185
180
175
170
165

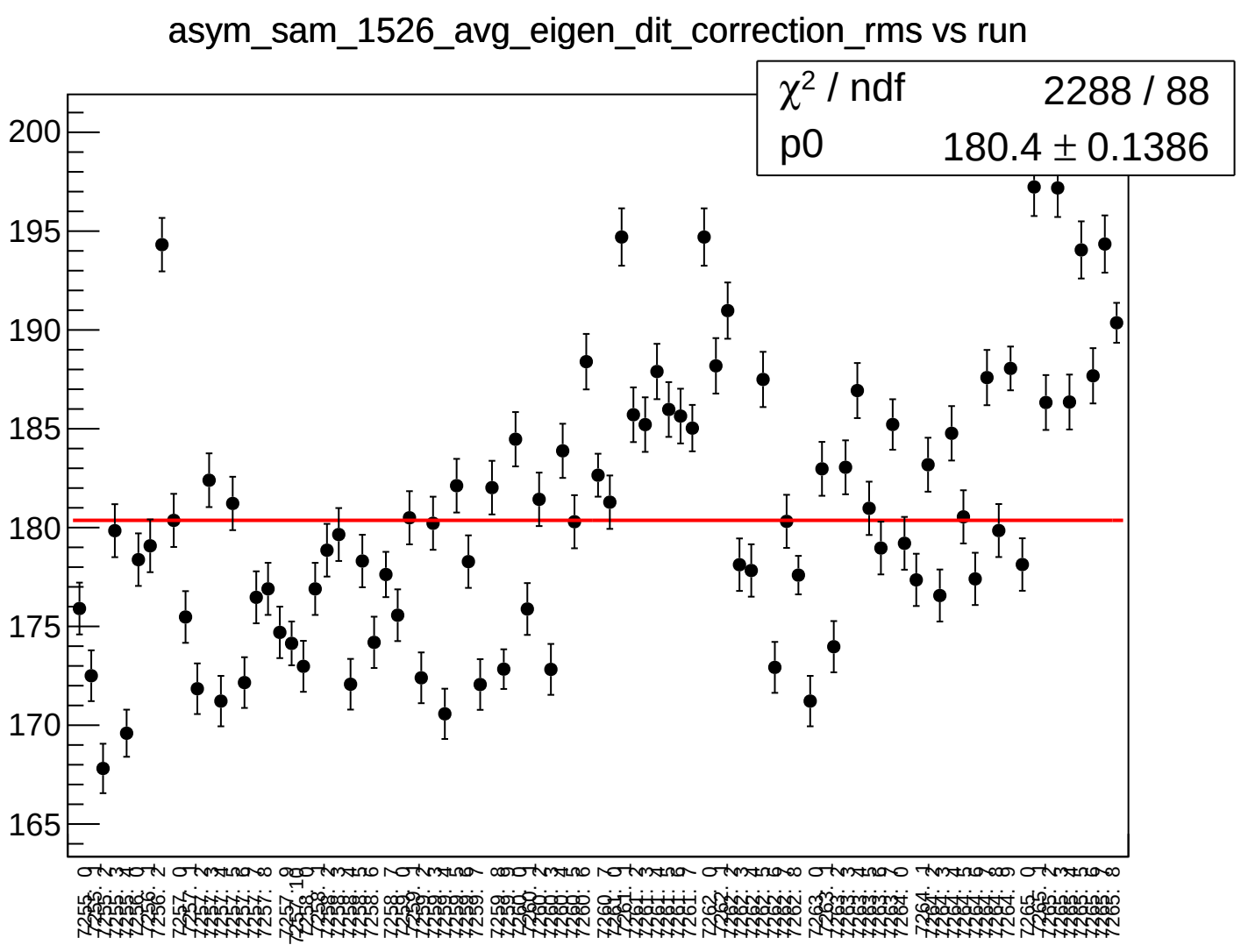

eigen_dit_asym_sam_1526_avg_mean vs run
χ^2 / ndf 80.38 / 88
p0 27.83 ± 57.31
pull
Entries 89
Mean 42.42
Std Dev 30.67

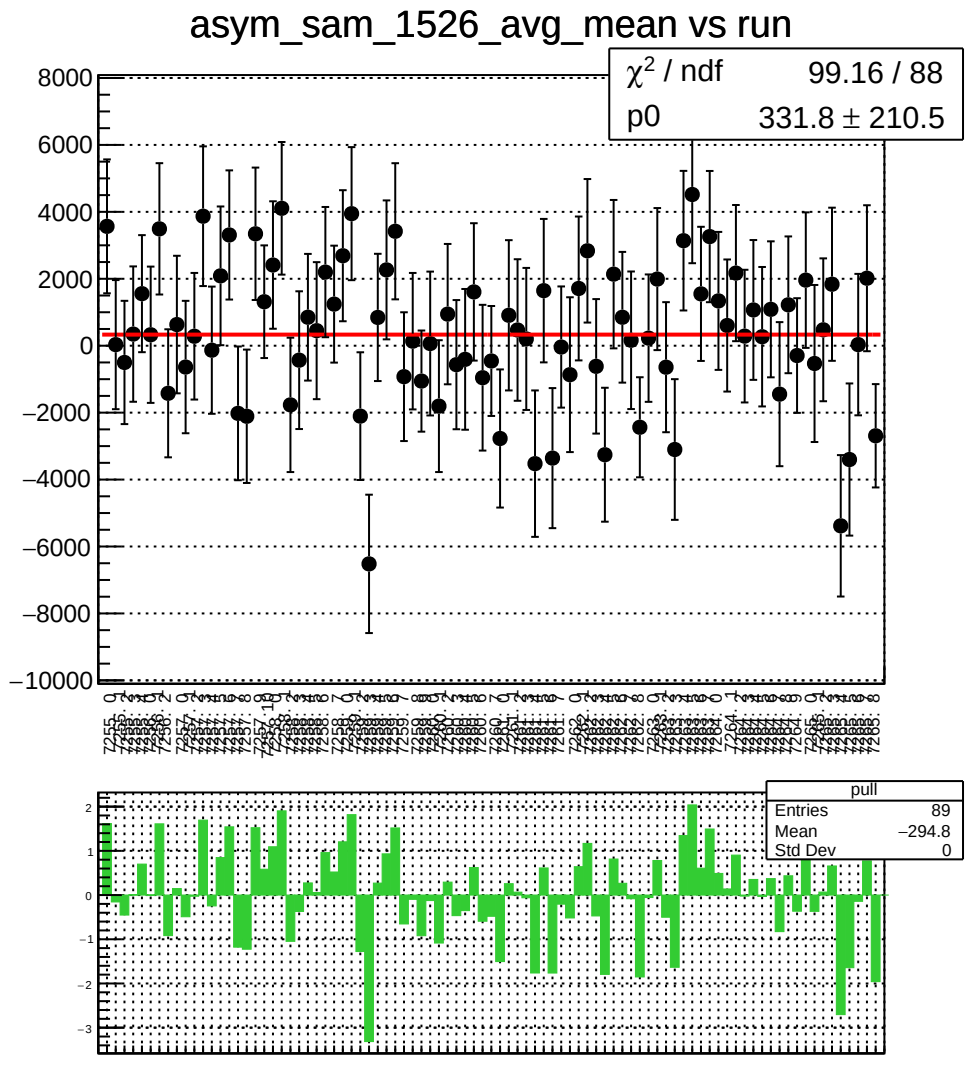

pull1D
Entries 89
Mean −0.01426
Std Dev 0.9502

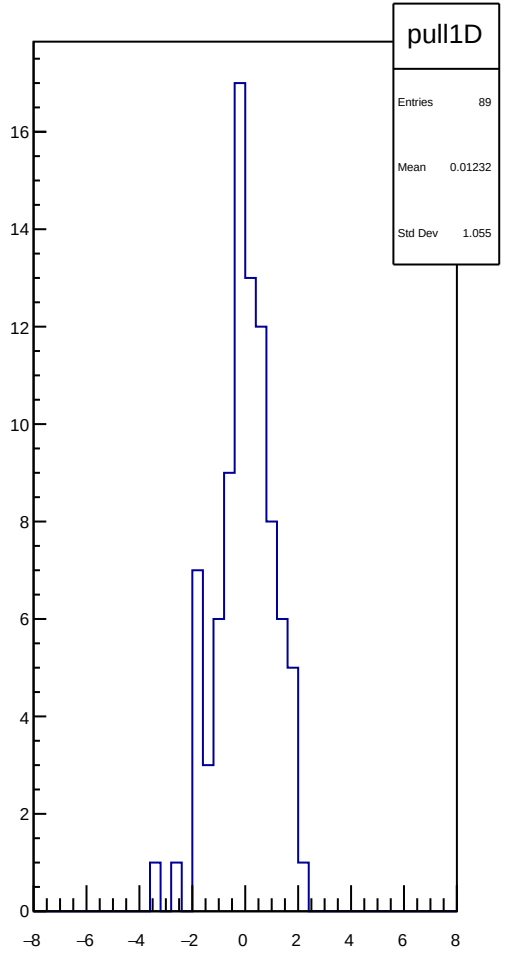

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3.075e+04 / 88
p0 52.28 ± 0.04052
80
75
70
65
60
55
50
45
40

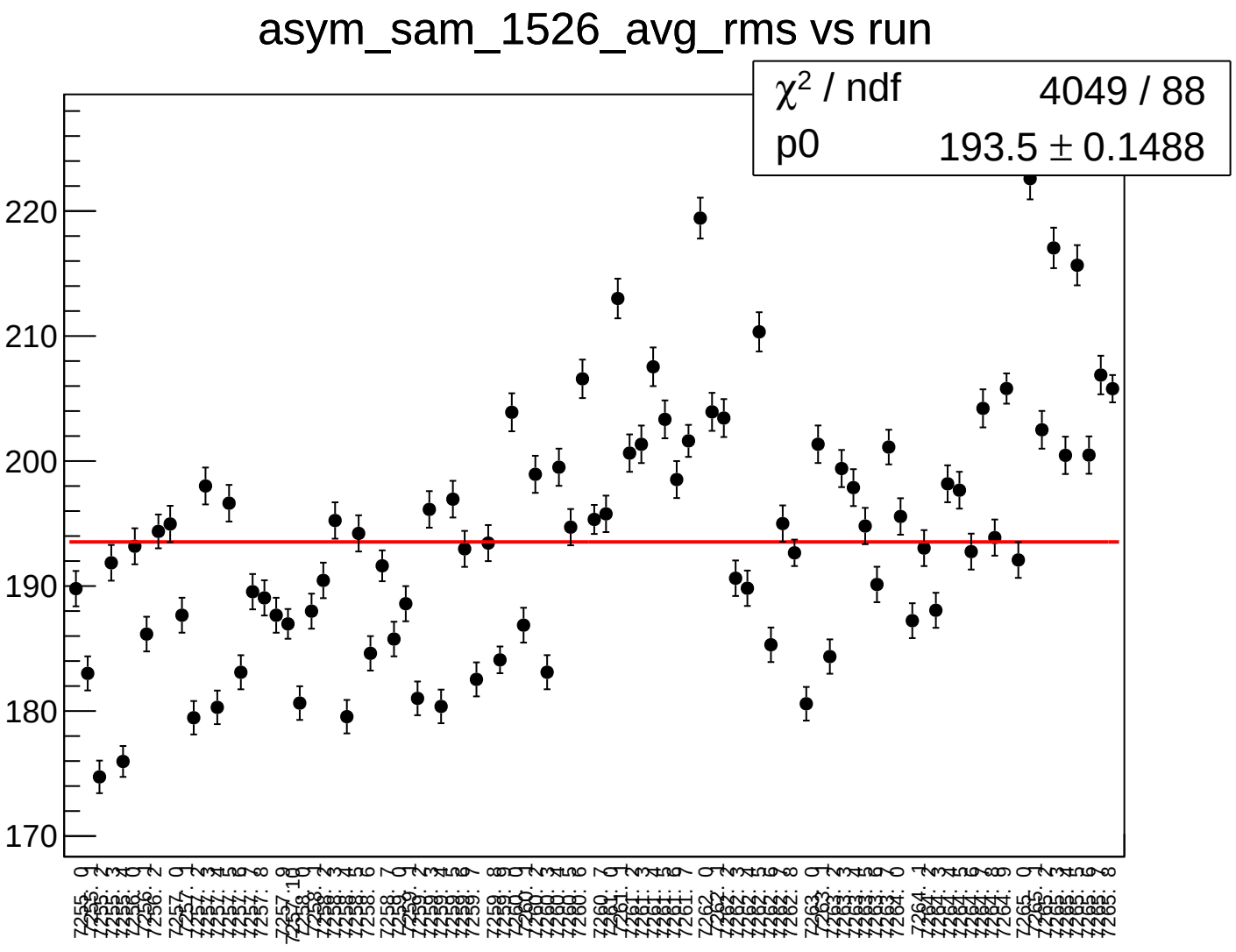

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.87 / 88
p0 −302.8 ± 196.1
pull
Entries 89
Mean −210.9
Std Dev 0

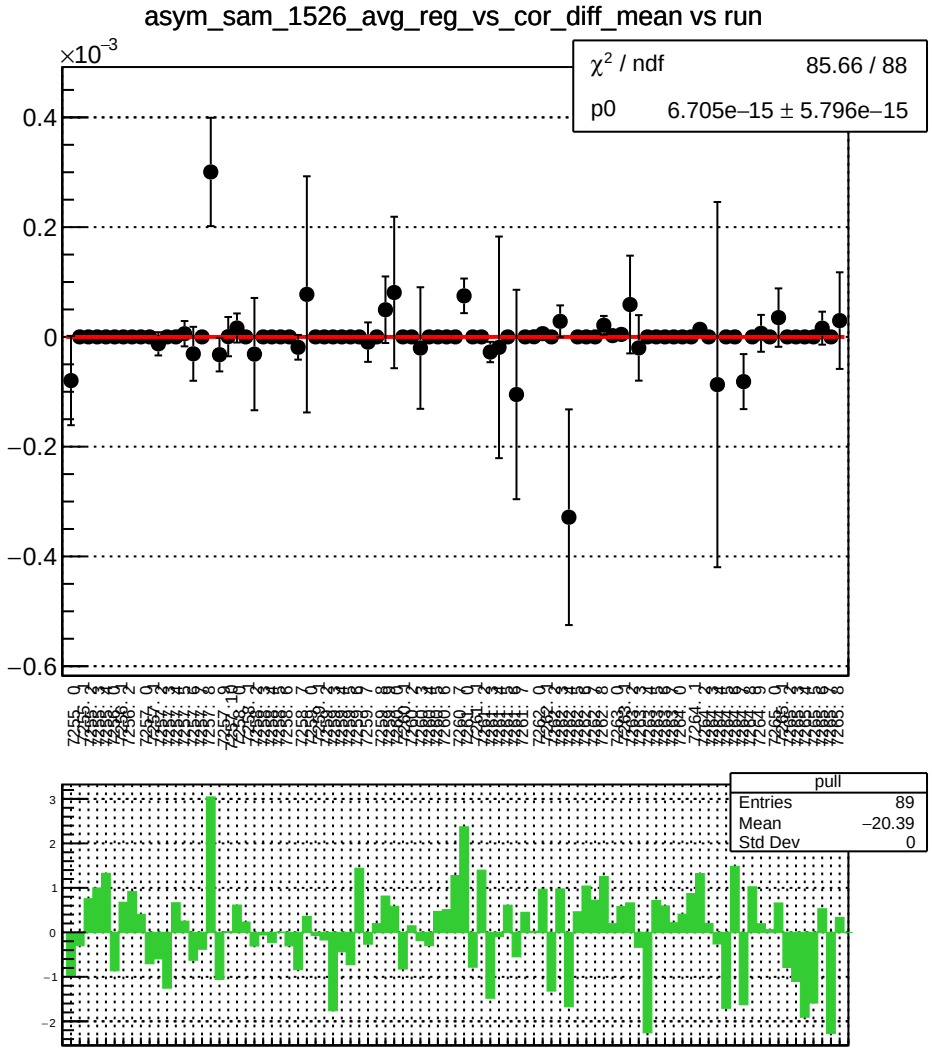

pull1D
Entries 89
Mean −0.01785
Std Dev 1.054

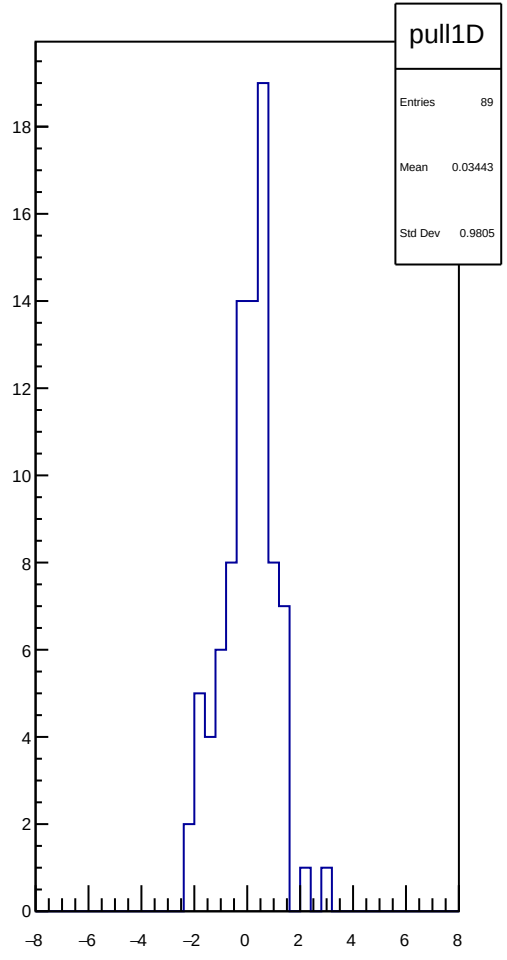

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 2288 / 88
p0 180.4 ± 0.1386
200
195
190
185
180
175
170
165

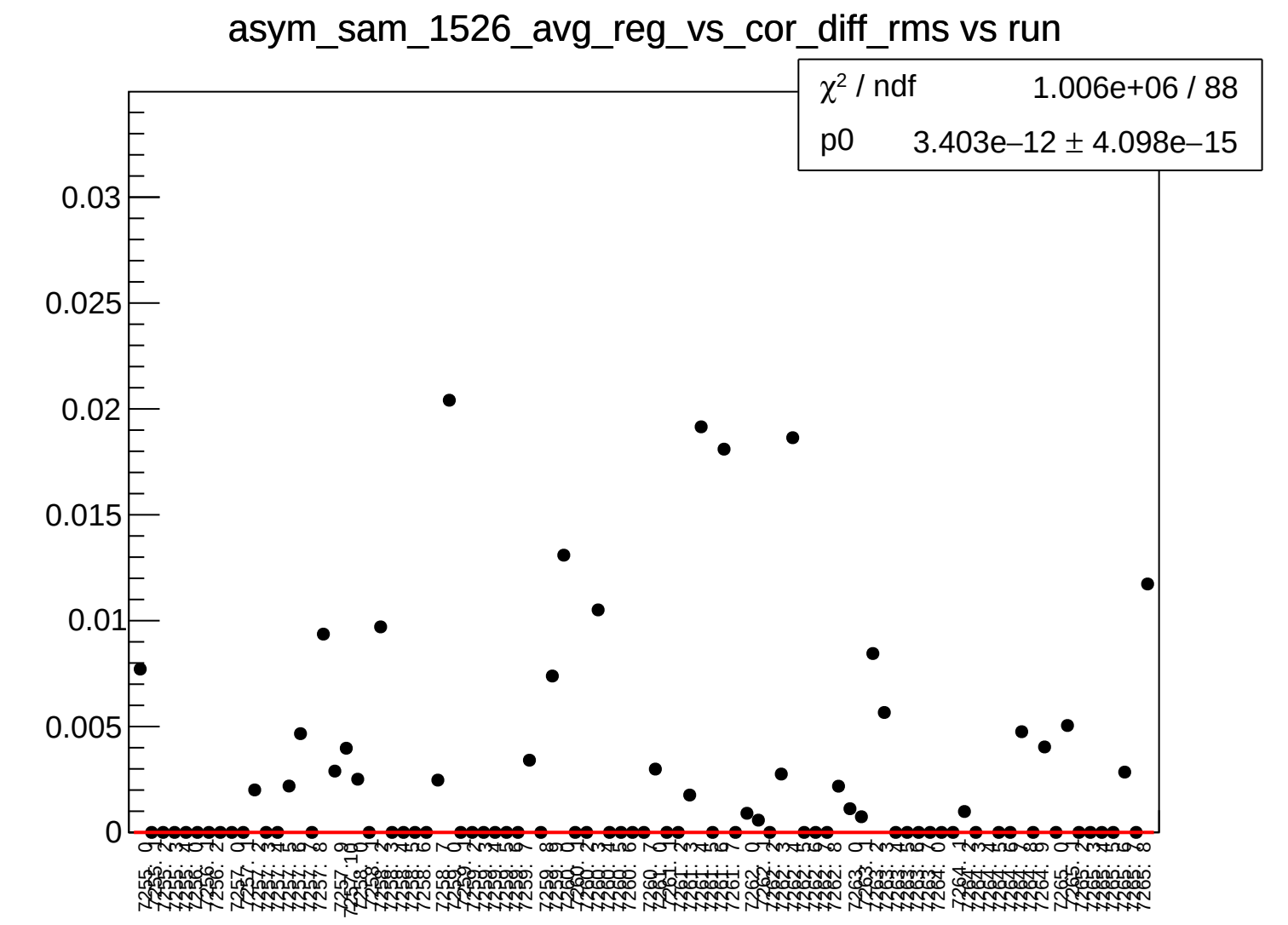

asym_sam_1526_avg_mean vs run
χ² / ndf 99.16 / 88
p0 331.8 ± 210.5
pull
Entries 89
Mean −294.8
Std Dev 0

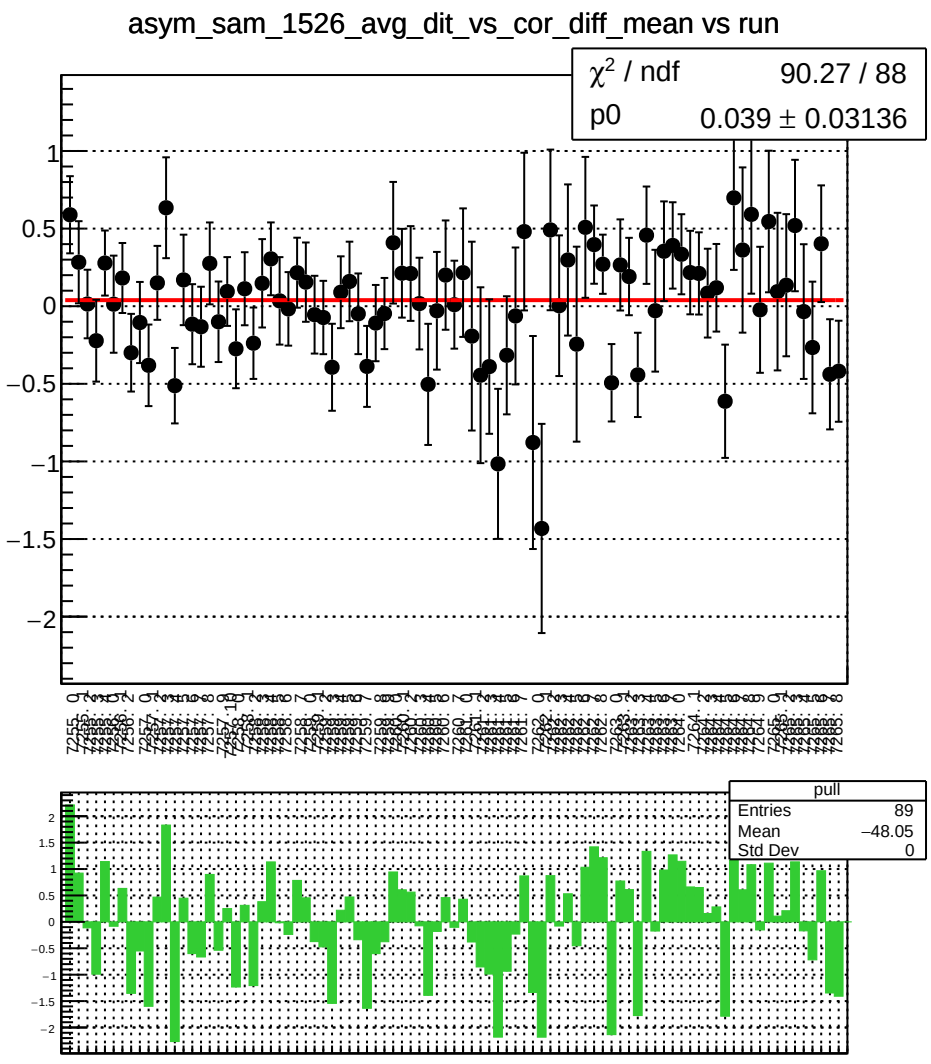

pull1D
Entries 89
Mean 0.01232
Std Dev 1.055

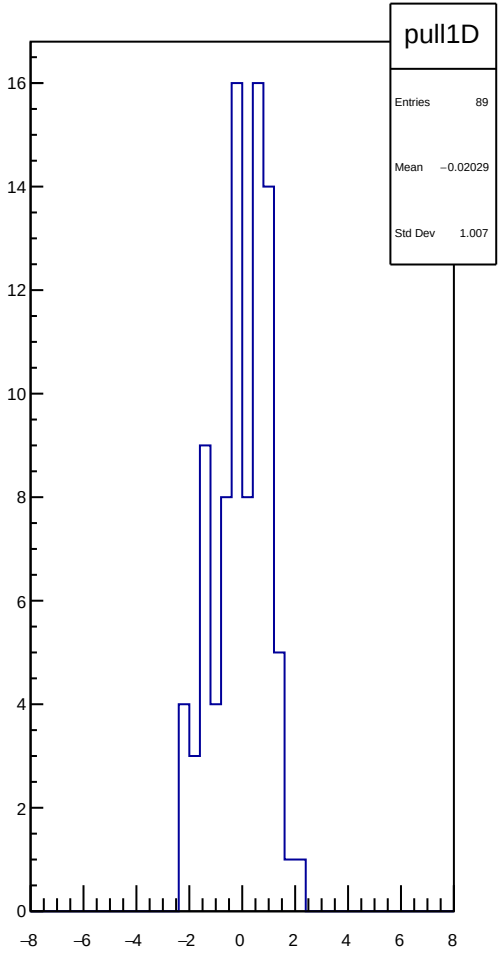

asym_sam_1526_avg_rms vs run
χ² / ndf 4049 / 88
p0 193.5 ± 0.1488
220
210
200
190
180
170

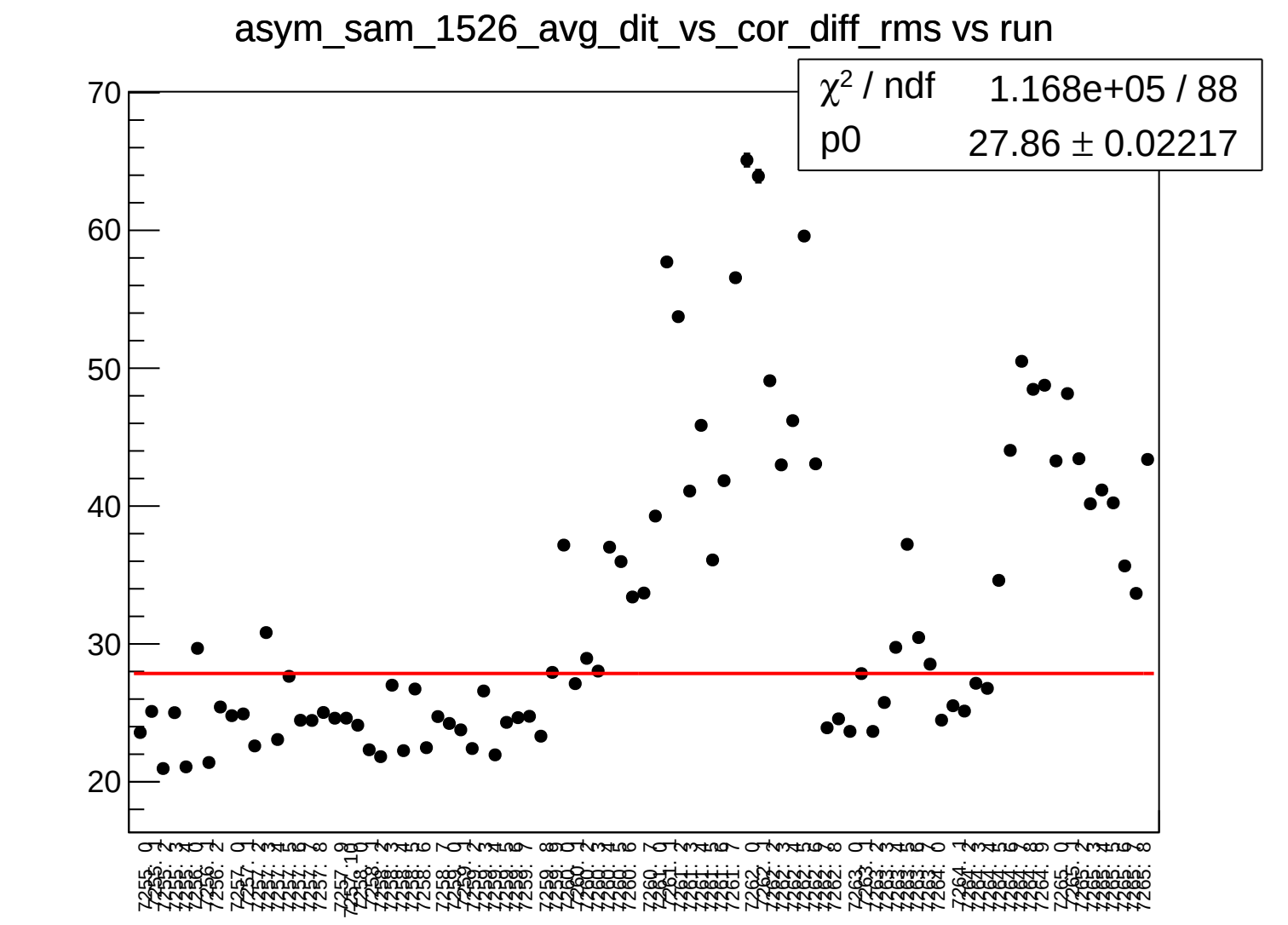

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 85.66 / 88
p0 6.705e−15 ± 5.796e−15
pull
Entries 89
Mean −20.39
Std Dev 0

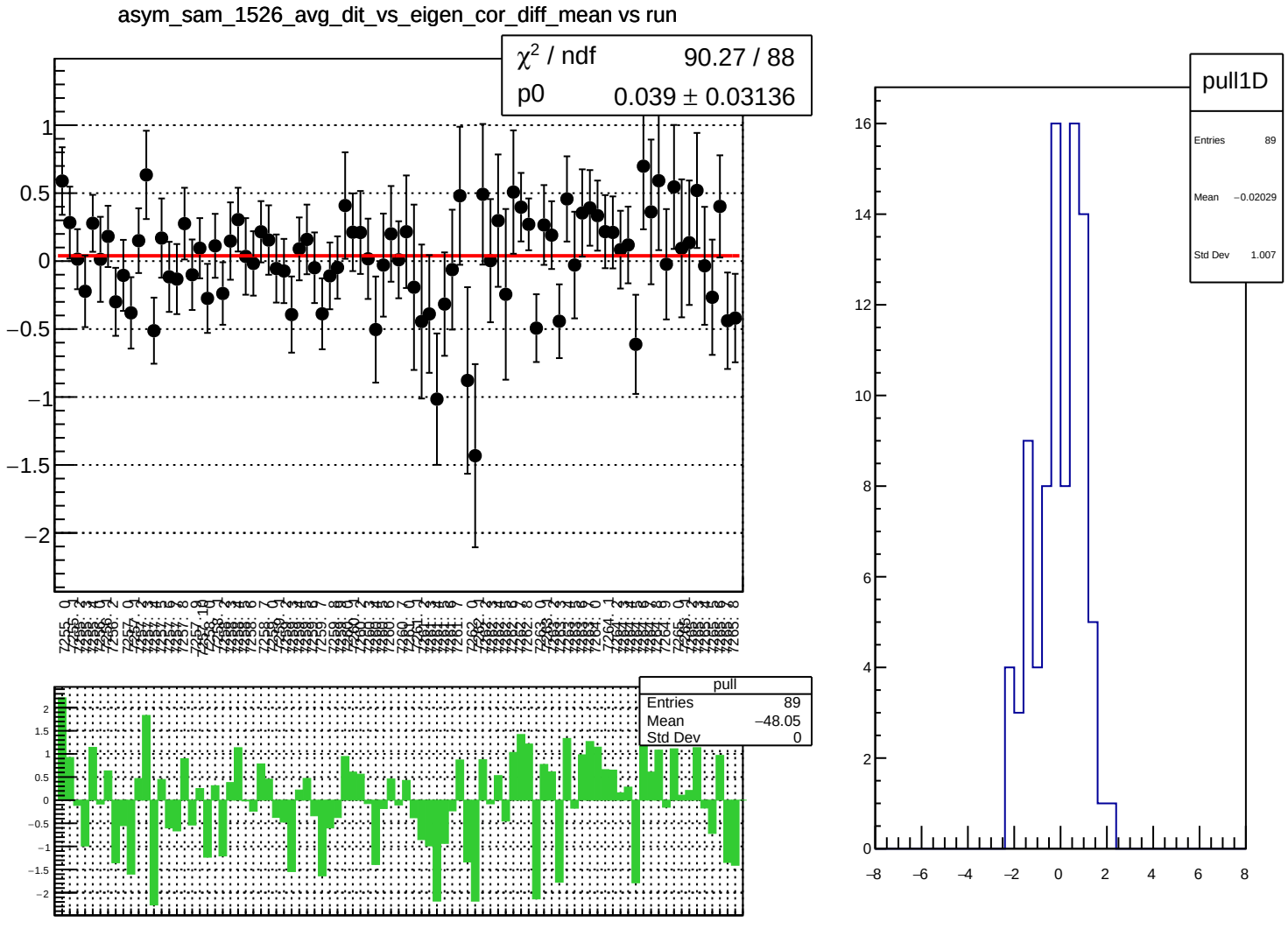

pull1D
Entries 89
Mean 0.03443
Std Dev 0.9805

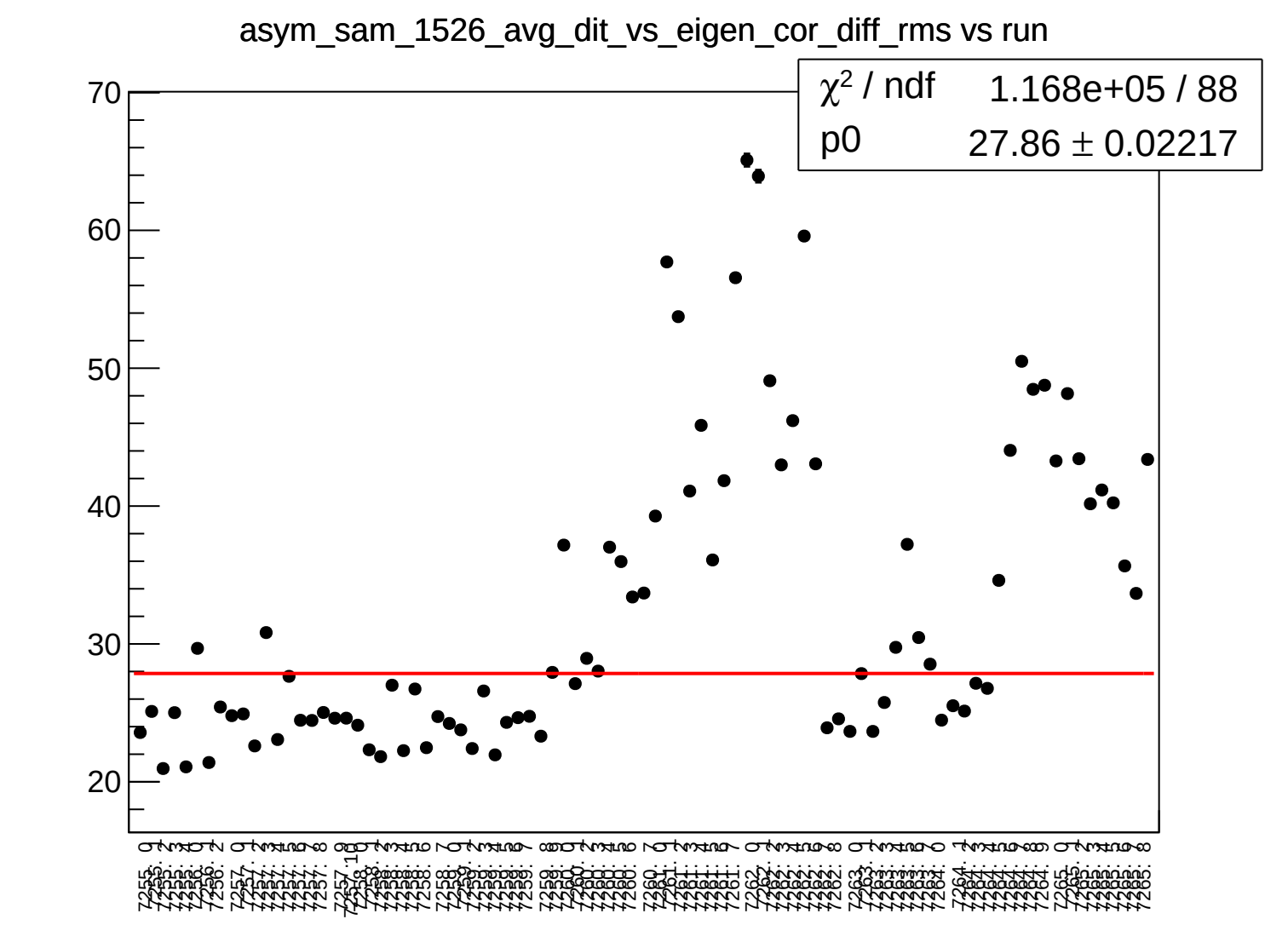

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.006e+06 / 88
p0 3.403e−12 ± 4.098e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

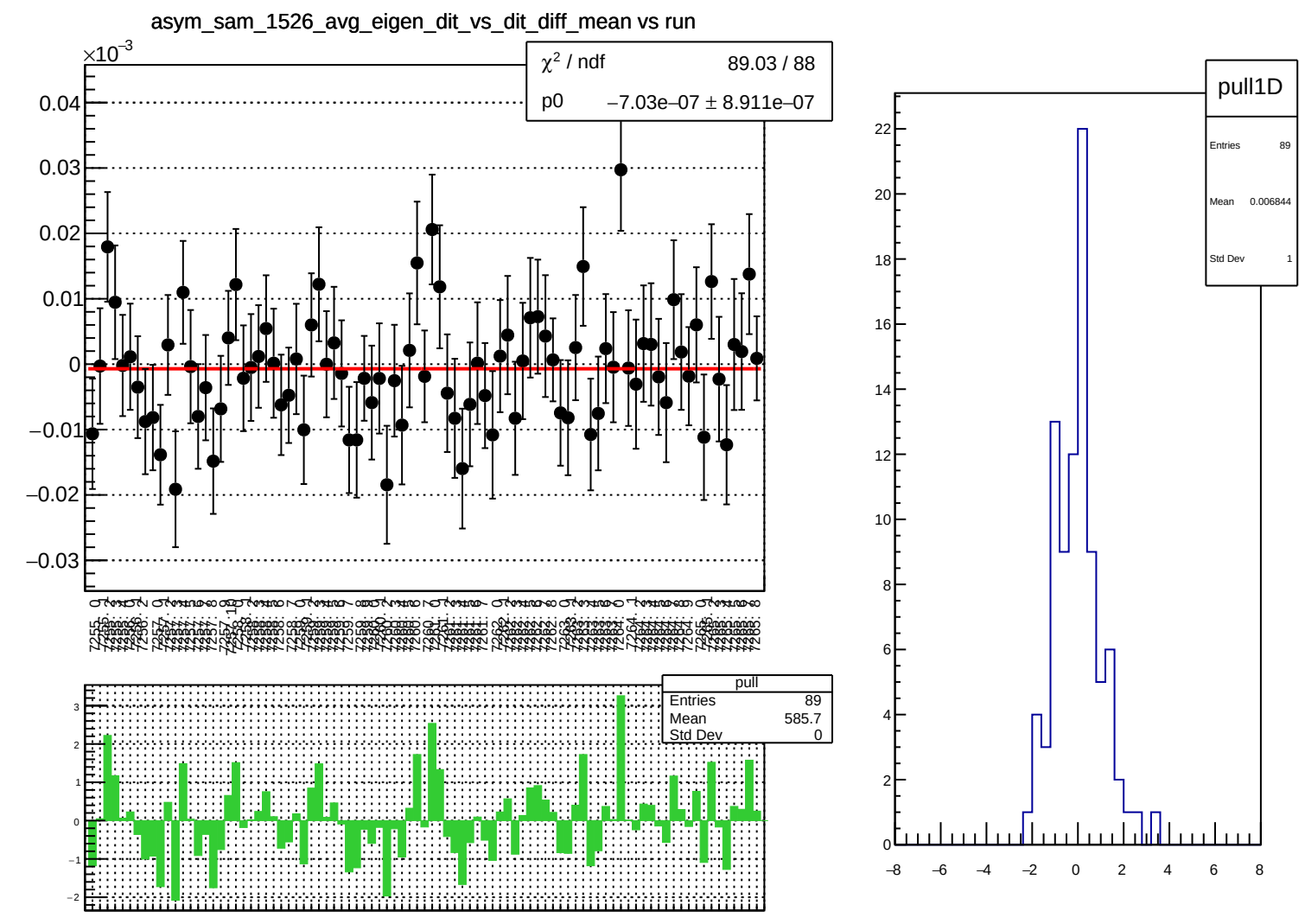

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.27 / 88
p0 0.039 ± 0.03136
pull
Entries 89
Mean −48.05
Std Dev 0

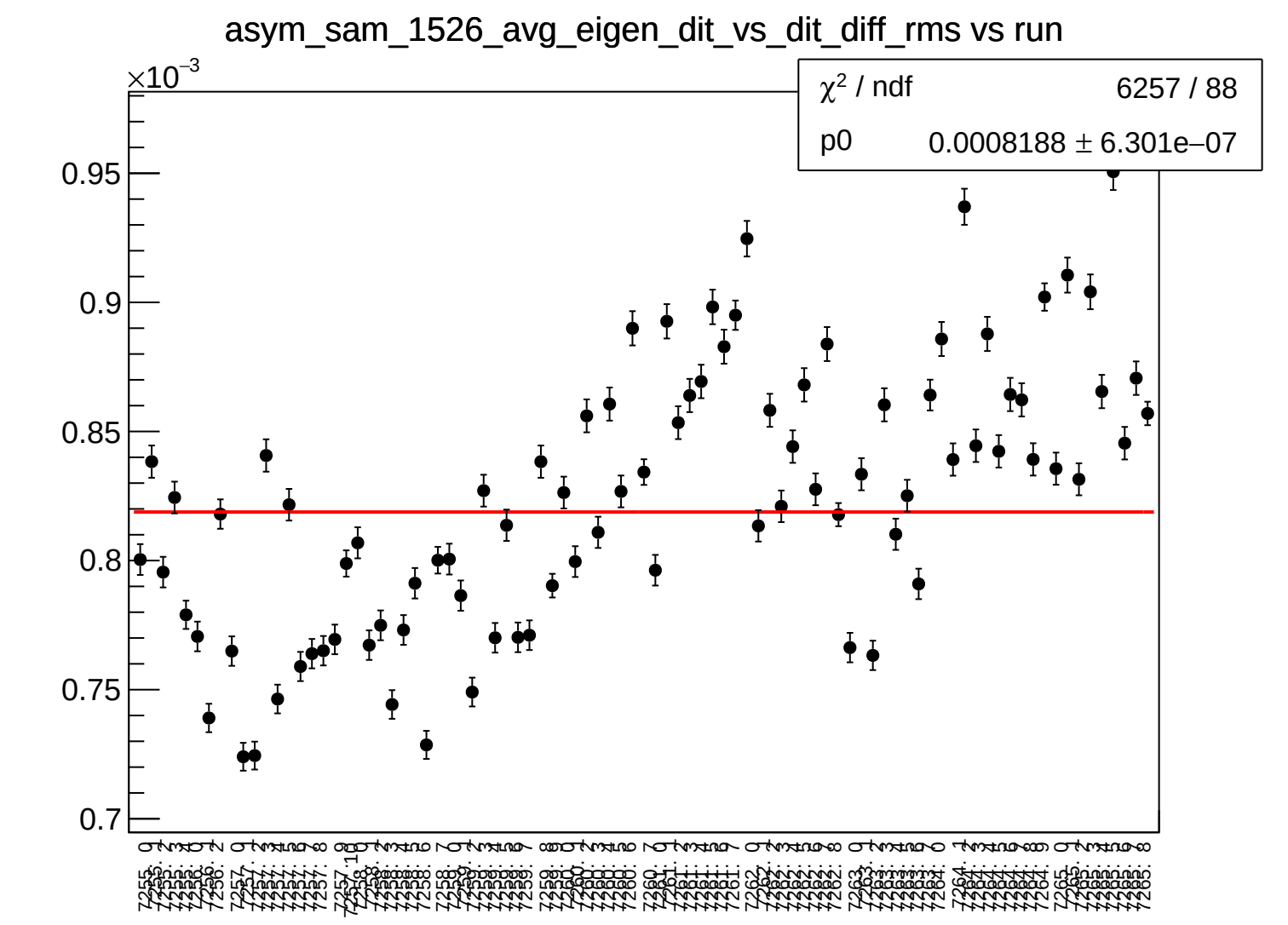

pull1D
Entries 89
Mean −0.02029
Std Dev 1.007

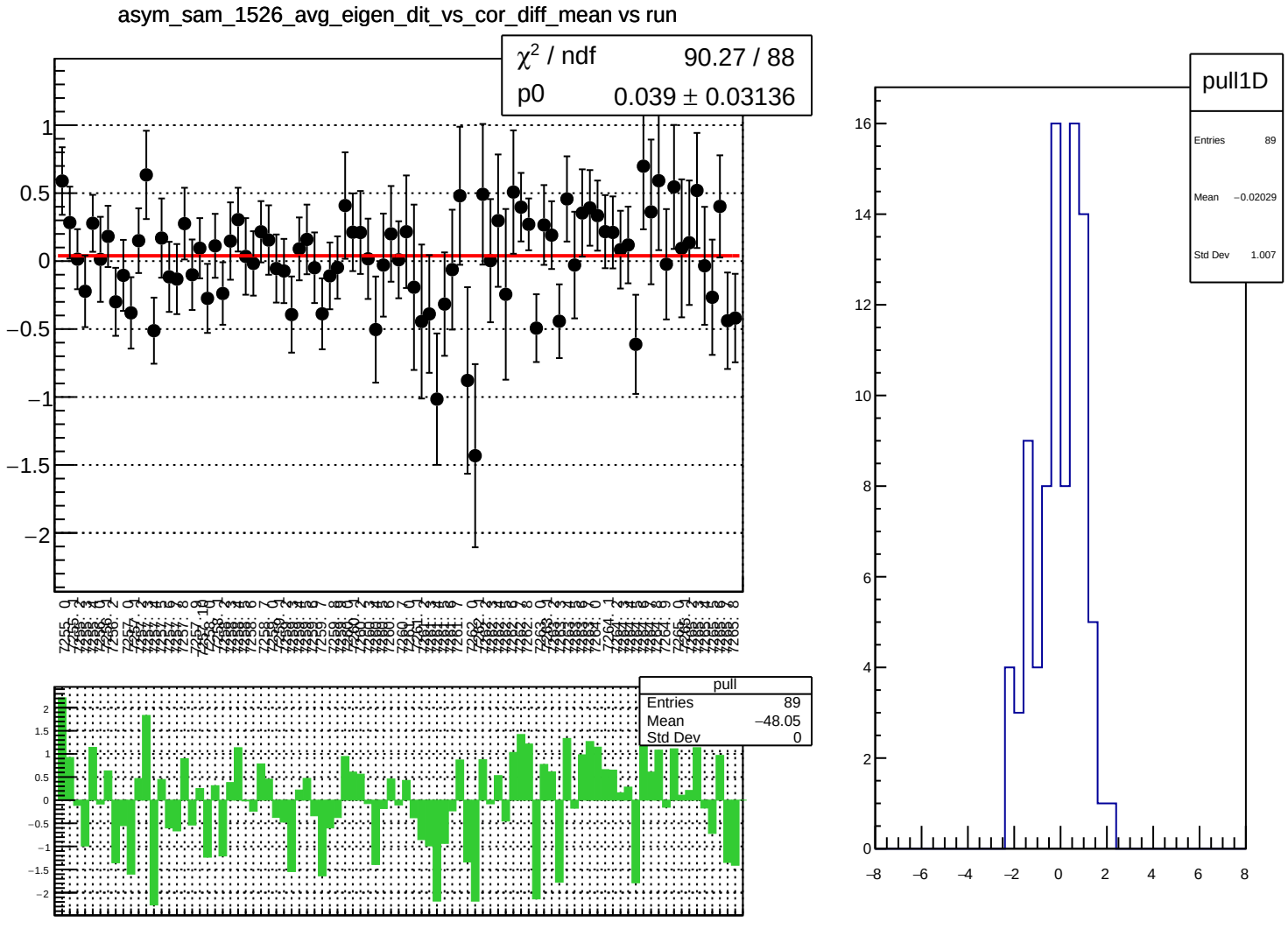

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.168e+05 / 88
p0 27.86 ± 0.02217
70
60
50
40
30
20

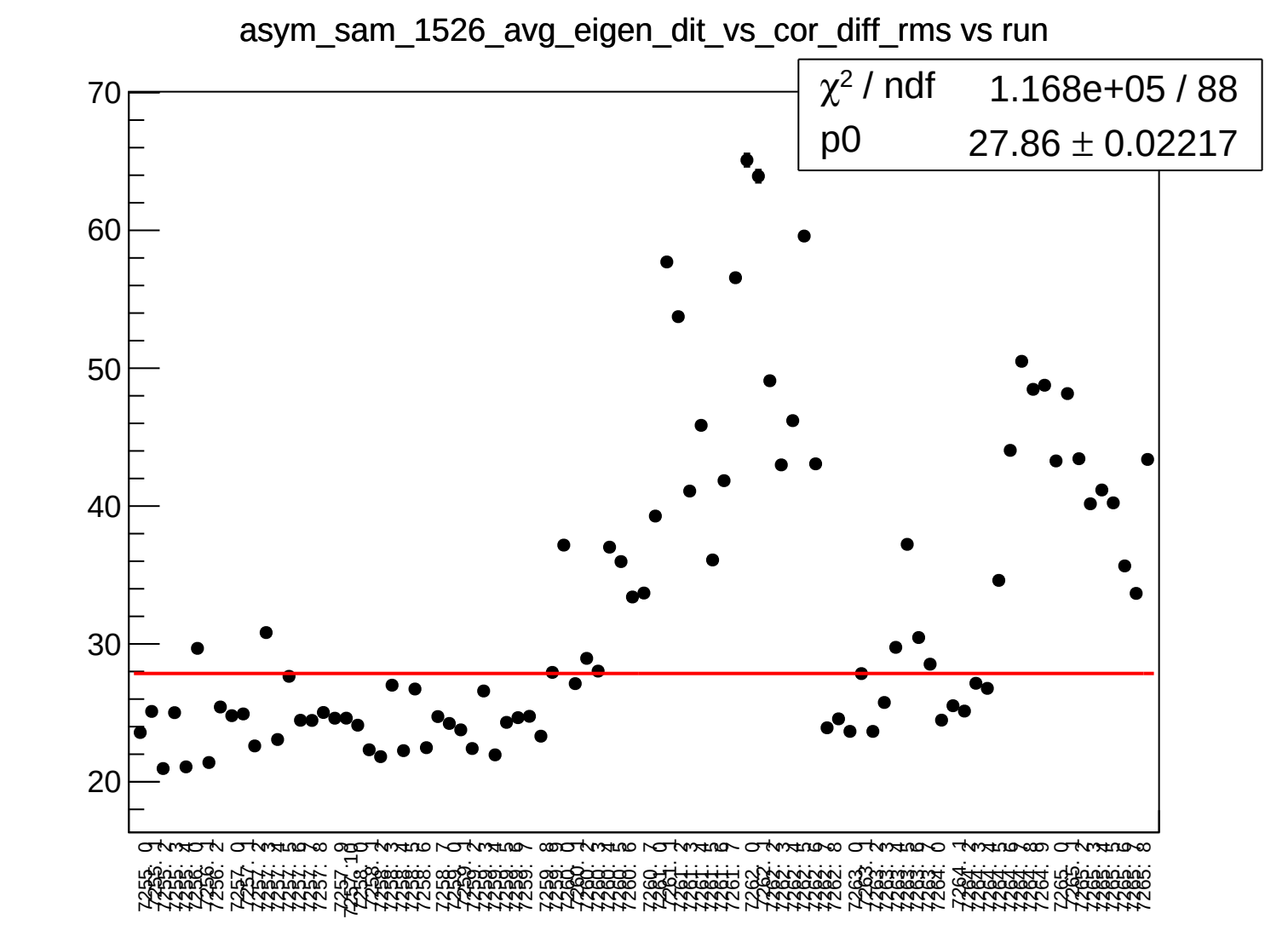

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.27 / 88
p0 0.039 ± 0.03136
pull
Entries 89
Mean −48.05
Std Dev 0
pull1D
Entries 89
Mean −0.02029
Std Dev 1.007

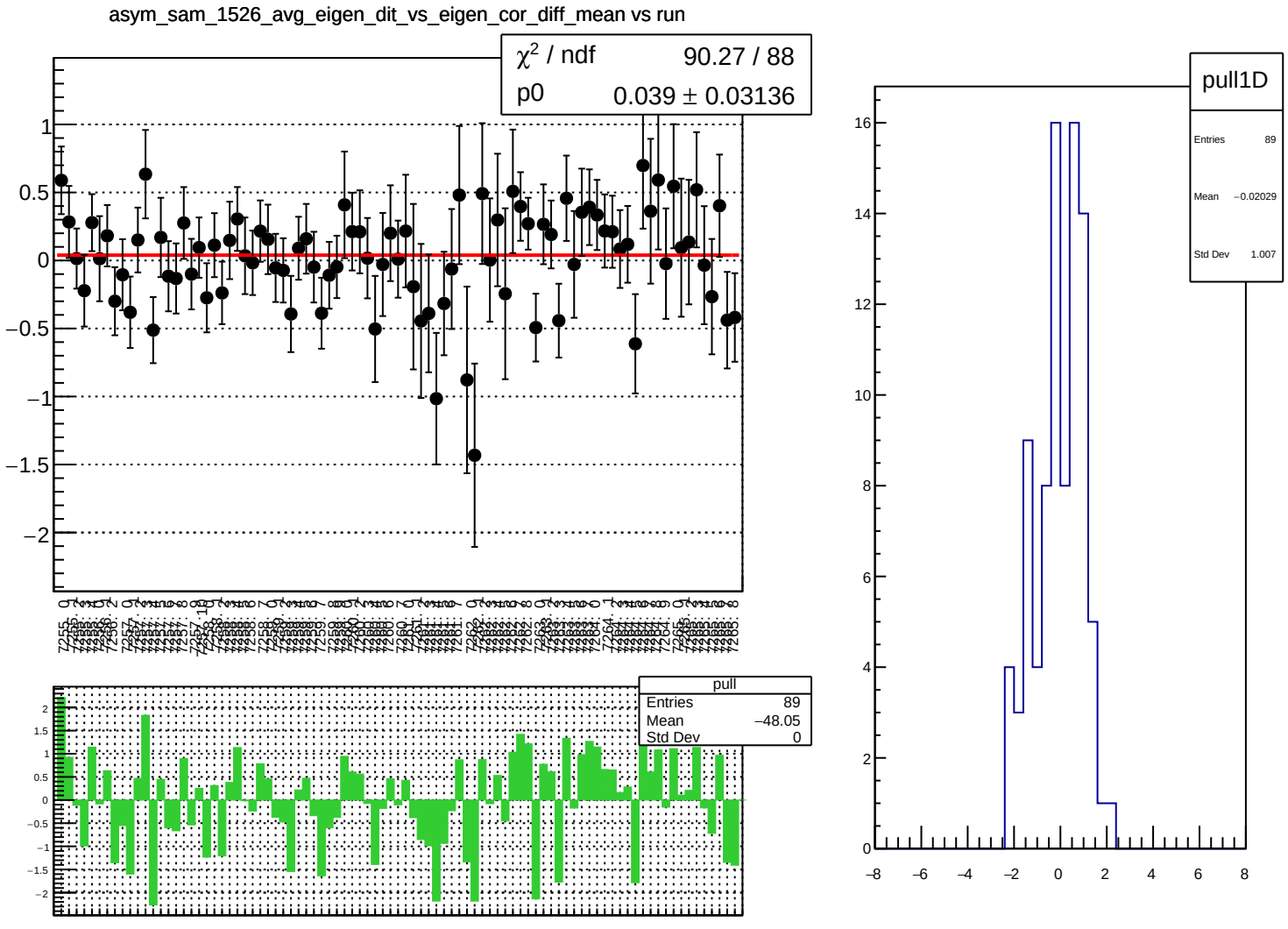

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.168e+05 / 88
p0 27.86 ± 0.02217
70
60
50
40
30
20

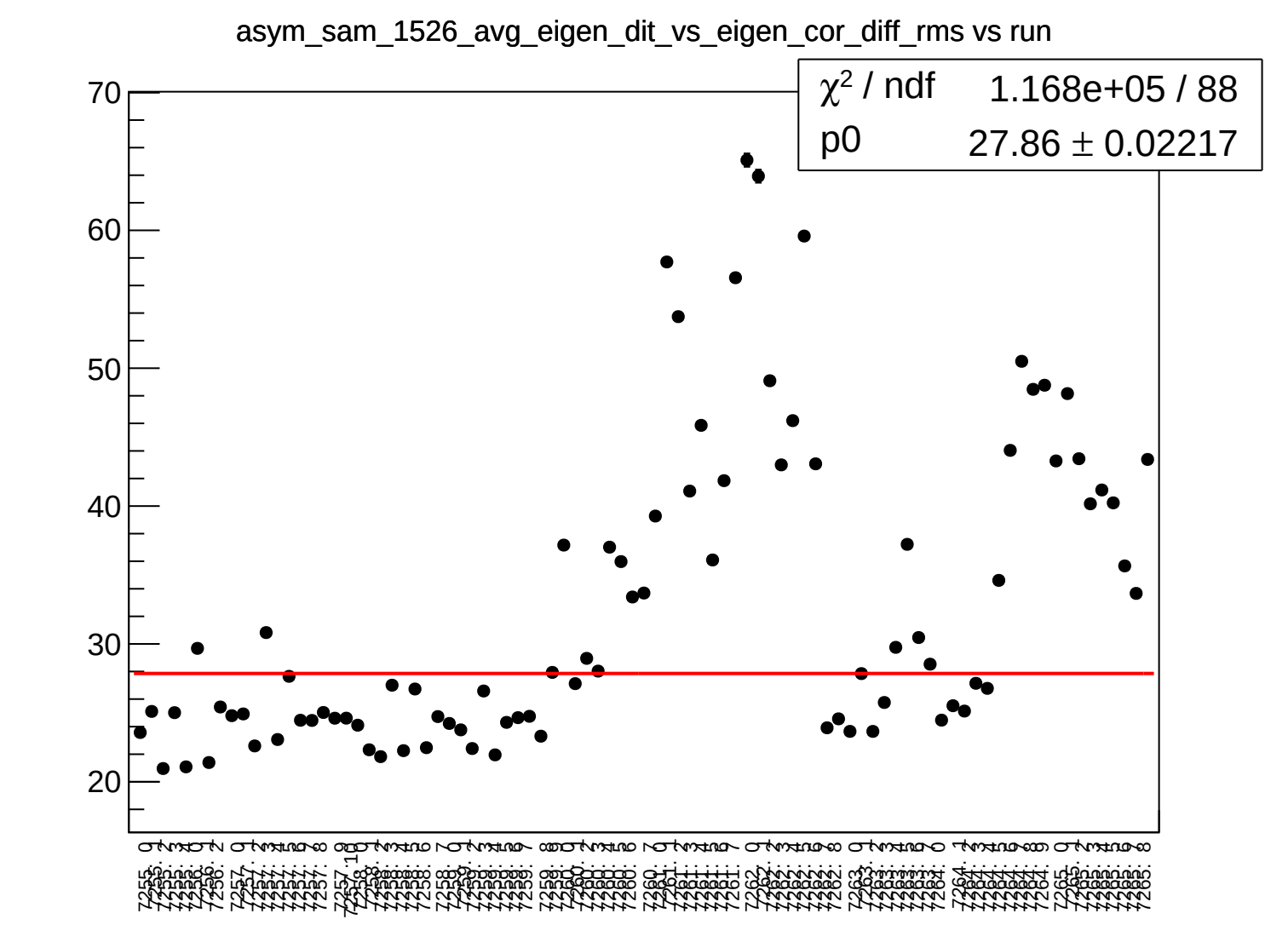

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.03 / 88
p0 −7.03e−07 ± 8.911e−07
pull
Entries 89
Mean 585.7
Std Dev 0
pull1D
Entries 89
Mean 0.006844
Std Dev 1

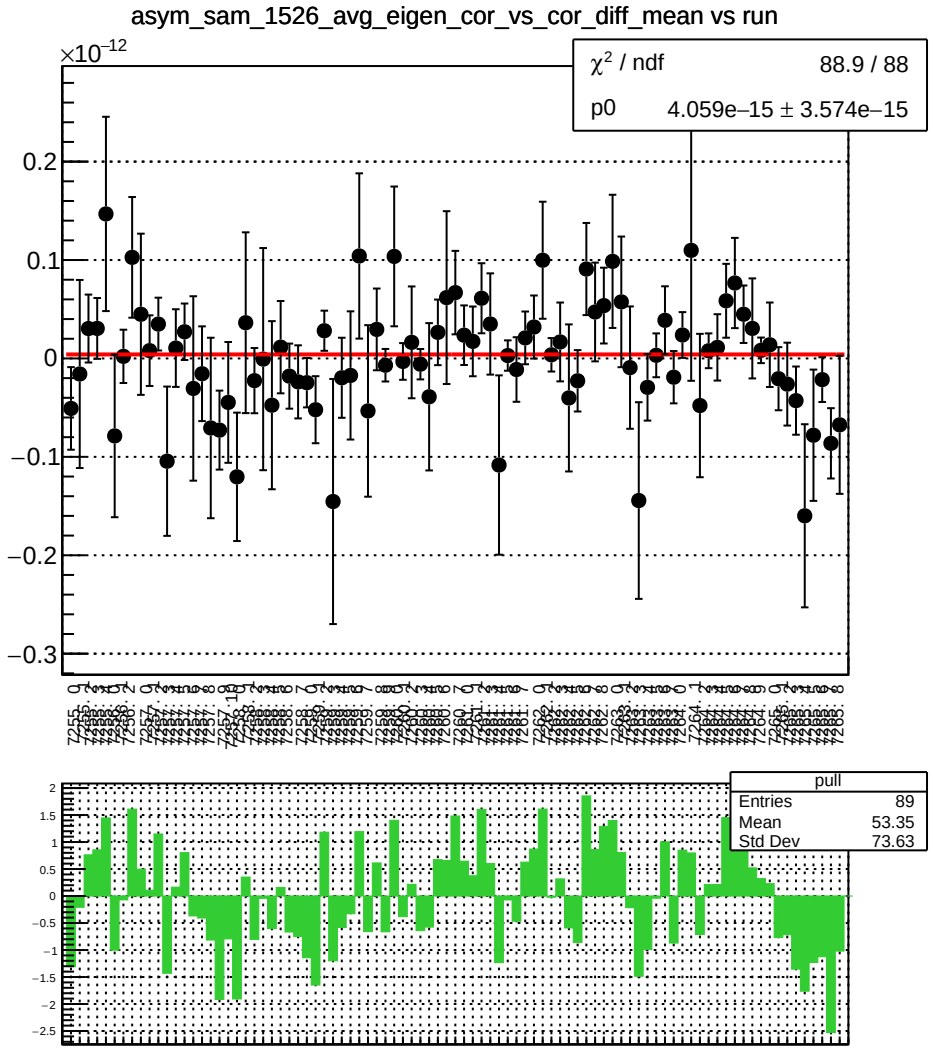

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 6257 / 88
p0 0.0008188 ± 6.301e−07
0.95
0.9
0.85
0.8
0.75
0.7

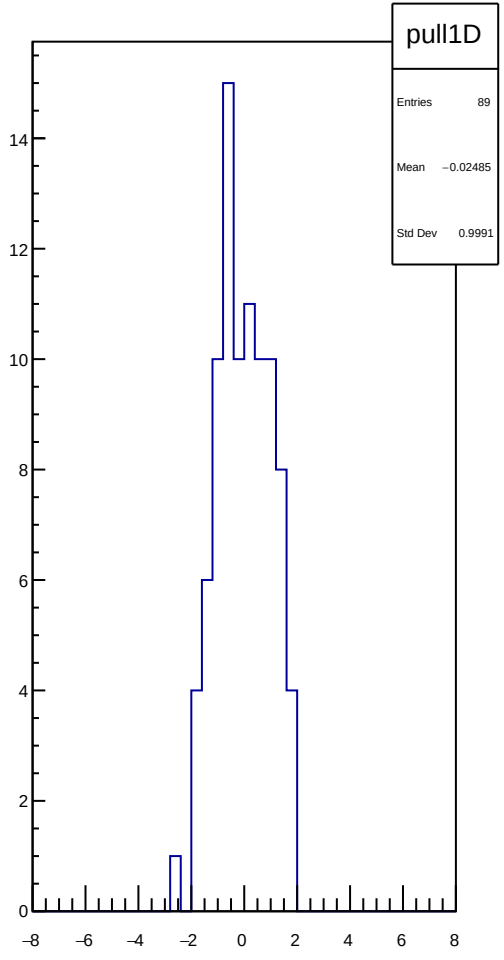

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.27 / 88
p0 0.039 ± 0.03136
pull
Entries 89
Mean −48.05
Std Dev 0
pull1D
Entries 89
Mean −0.02029
Std Dev 1.007

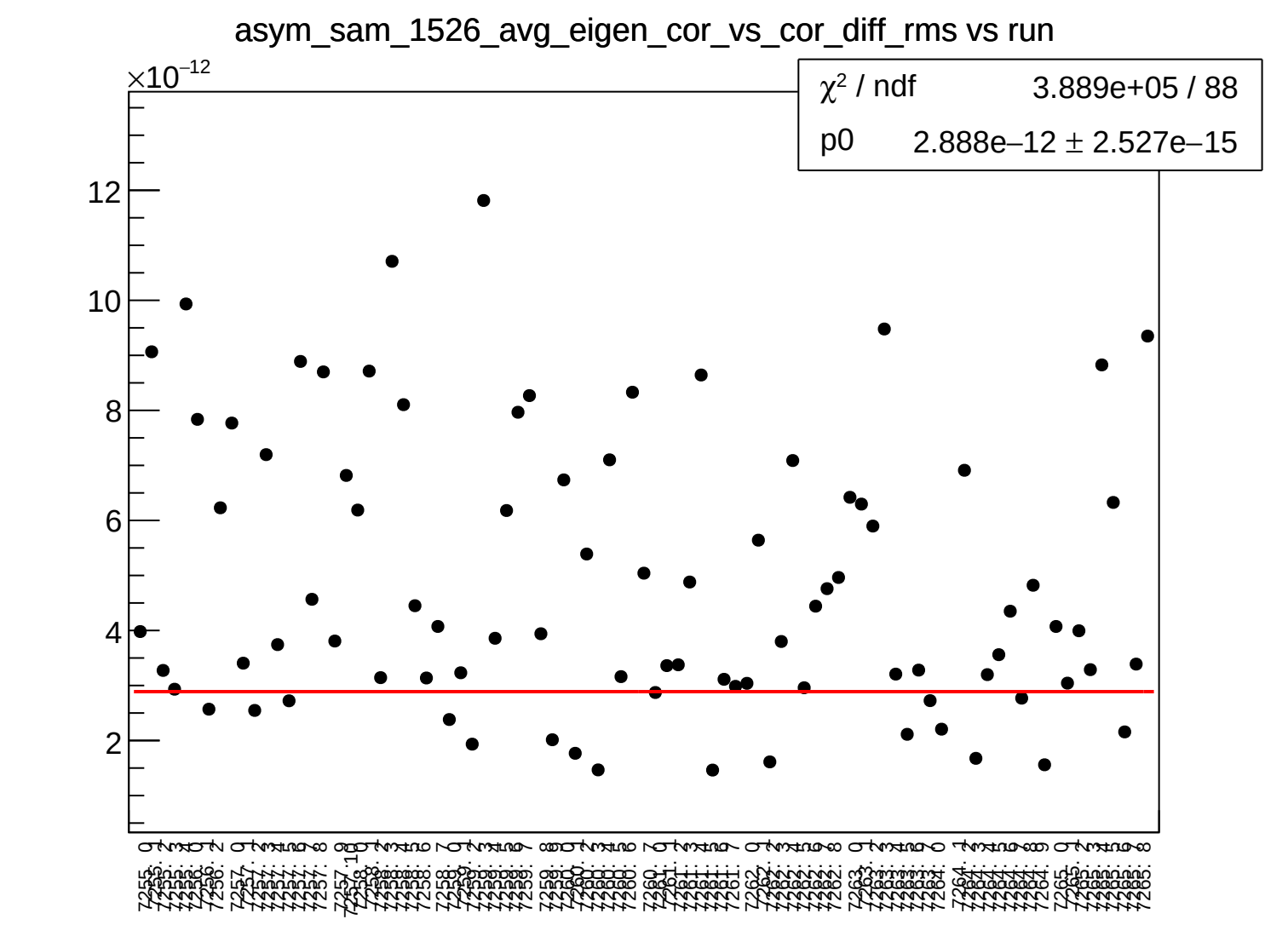

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.168e+05 / 88
p0 27.86 ± 0.02217
70
60
50
40
30
20

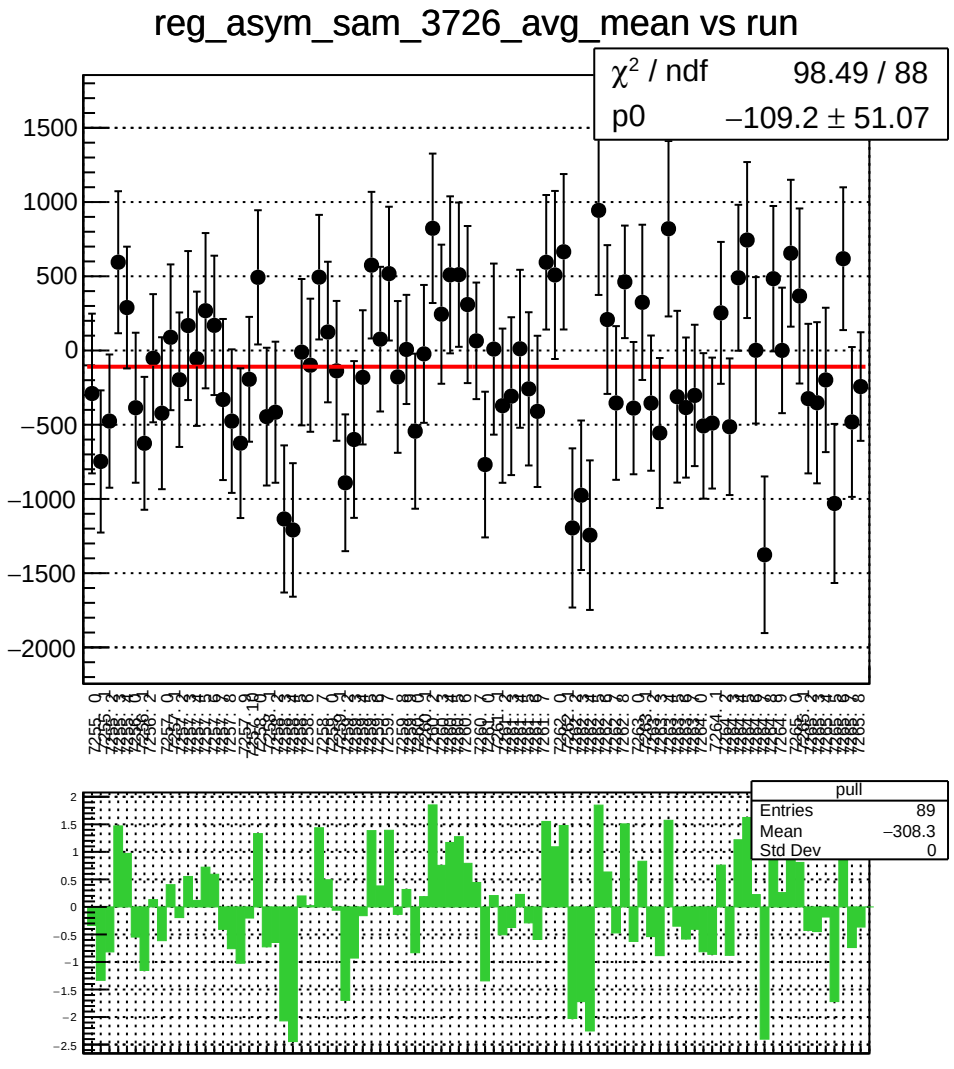

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.27 / 88
p0 0.039 ± 0.03136
pull
Entries 89
Mean −48.05
Std Dev 0
pull1D
Entries 89
Mean −0.02029
Std Dev 1.007

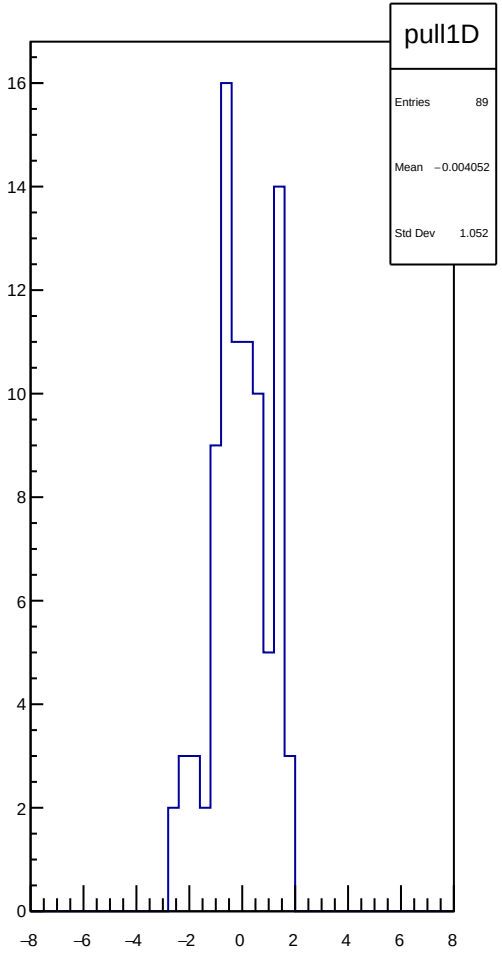

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.168e+05 / 88
p0 27.86 ± 0.02217
70
60
50
40
30
20

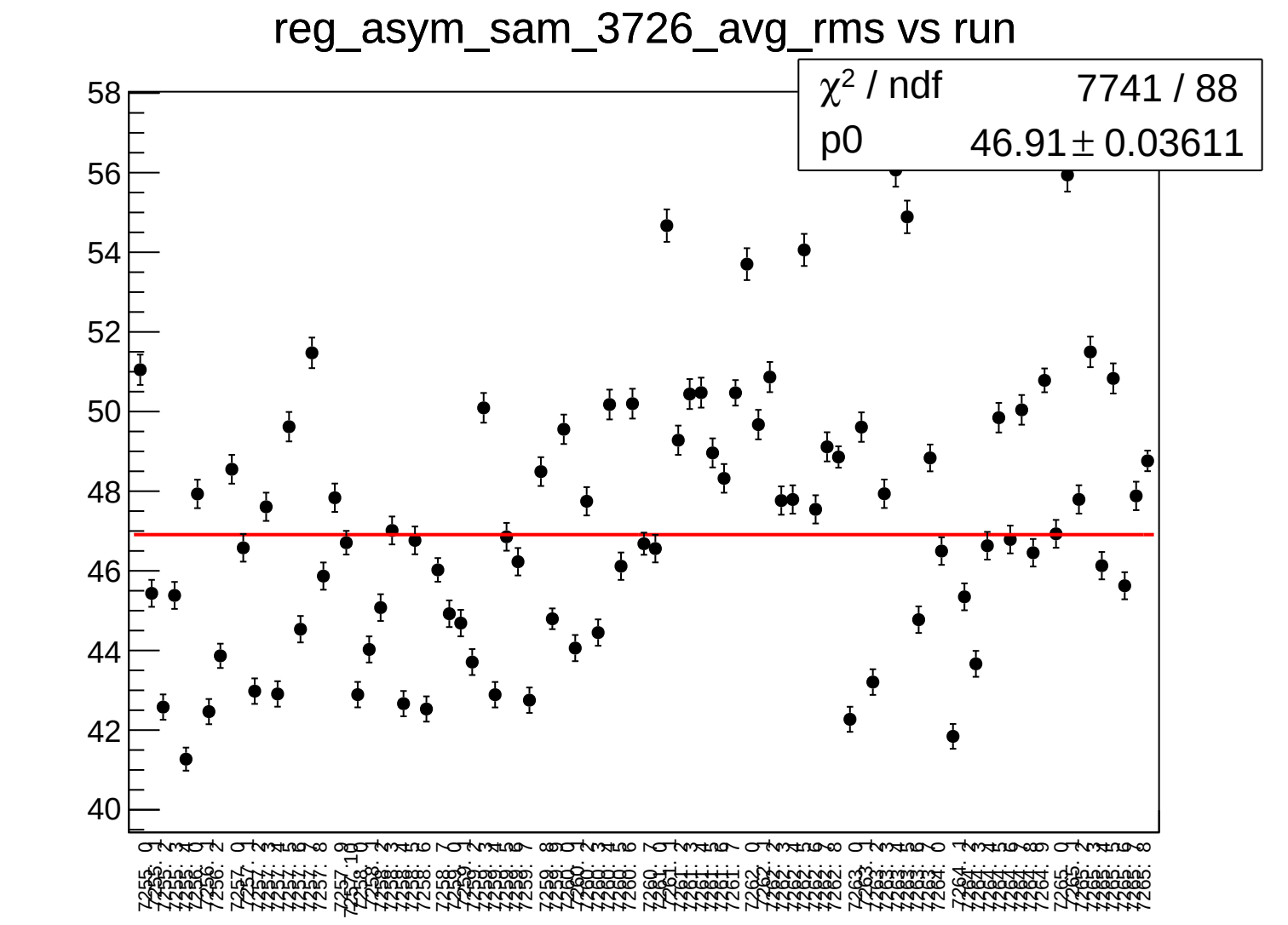

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 88.9 / 88
p0 4.059e−15 ± 3.574e−15
pull
Entries 89
Mean 53.35
Std Dev 73.63

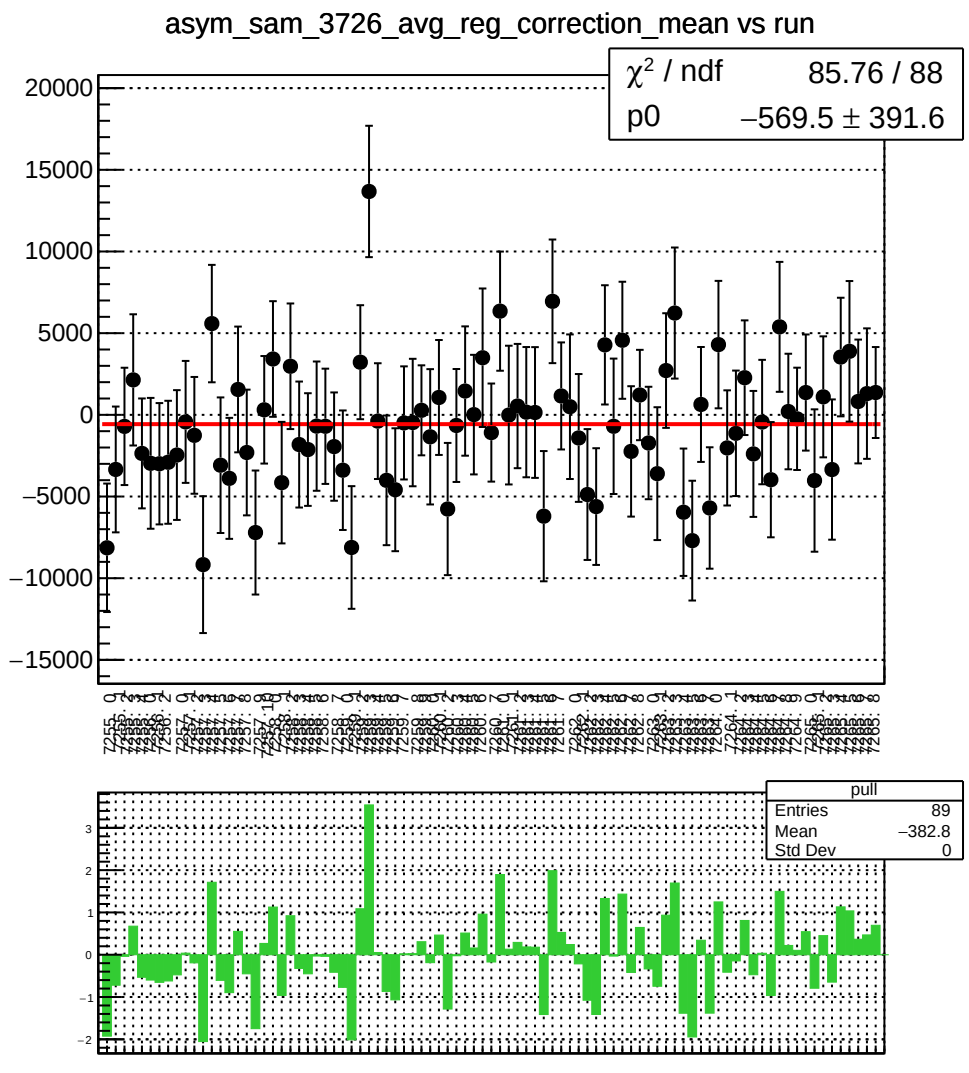

pull1D
Entries 89
Mean −0.02485
Std Dev 0.9991

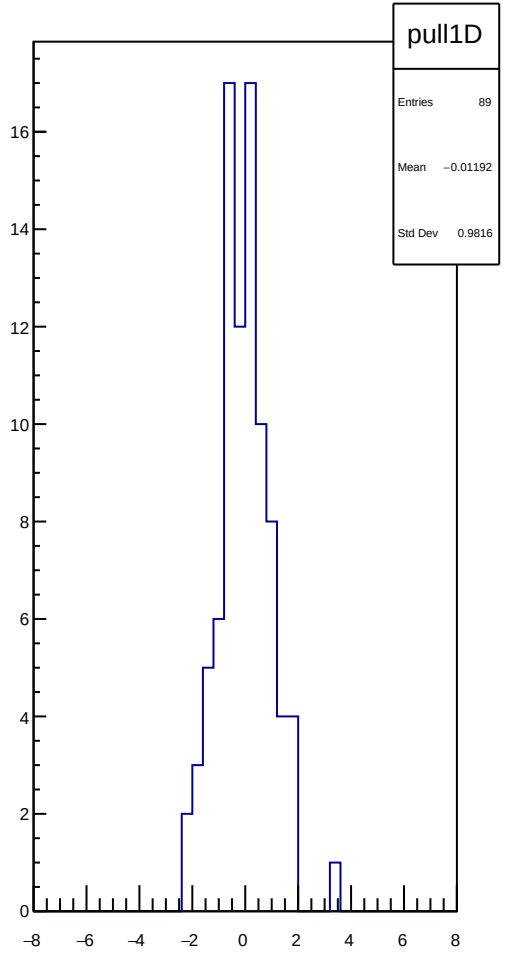

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.889e+05 / 88
p0 2.888e−12 ± 2.527e−15
12
10
8
6
4
2

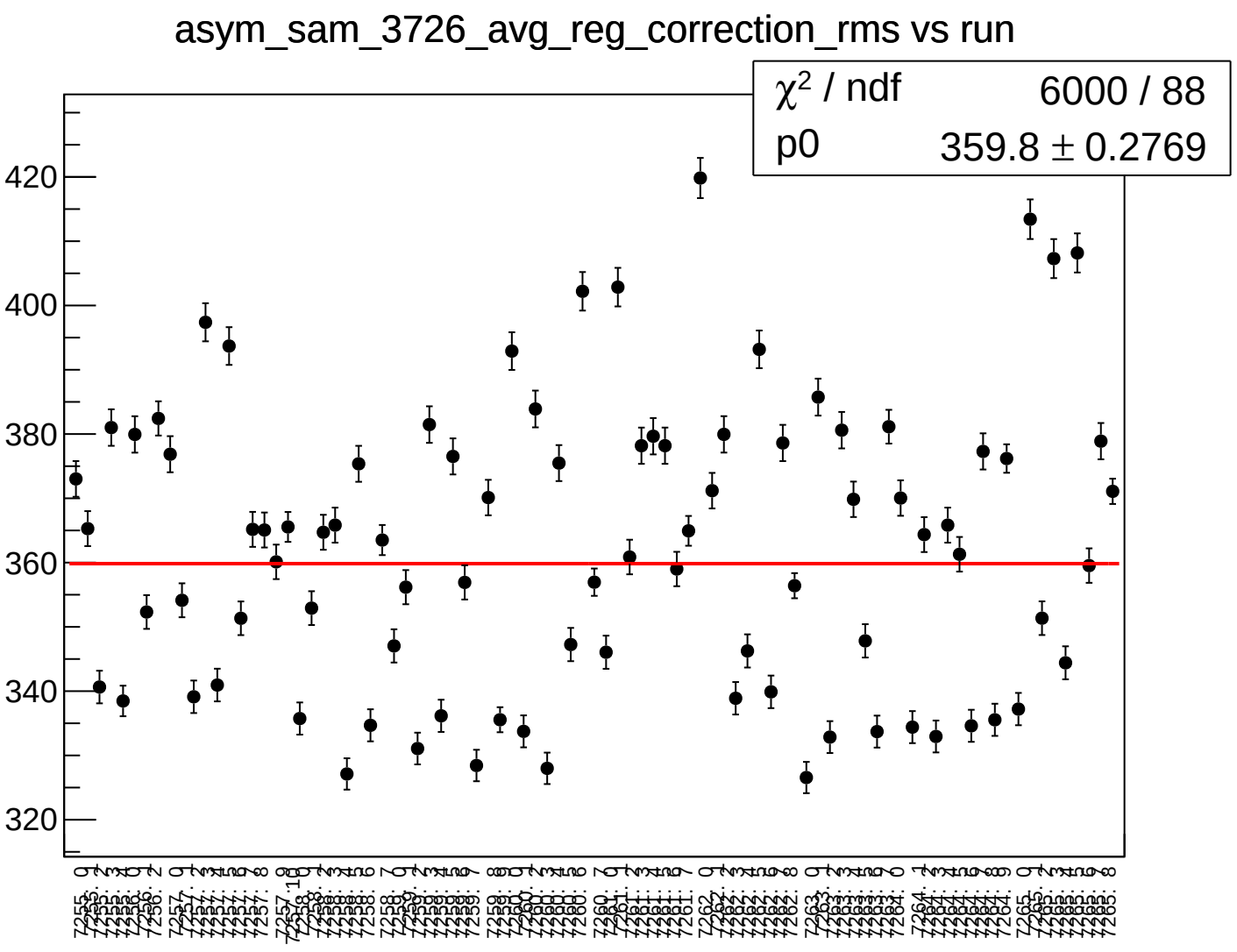

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 98.49 / 88
p0 −109.2 ± 51.07
pull
Entries 89
Mean −308.3
Std Dev 0

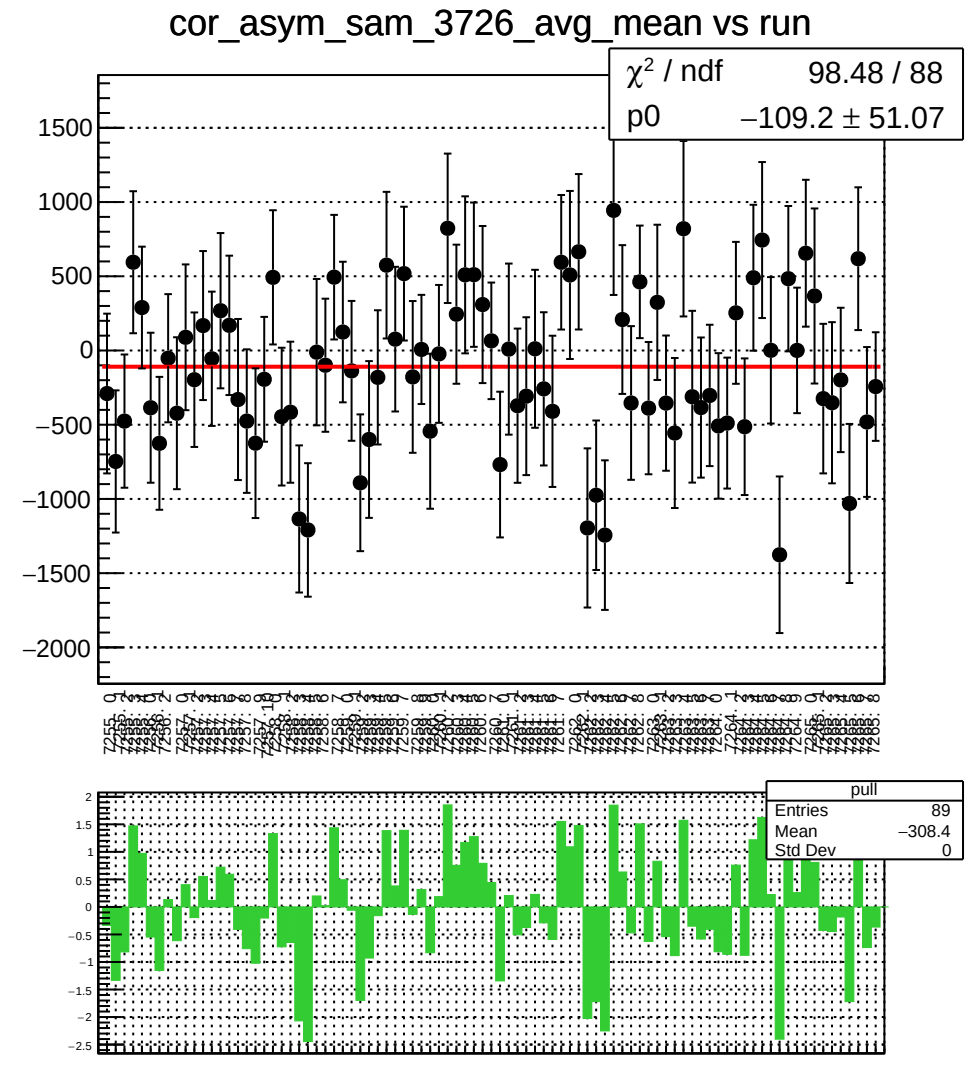

pull1D
Entries 89
Mean −0.004052
Std Dev 1.052

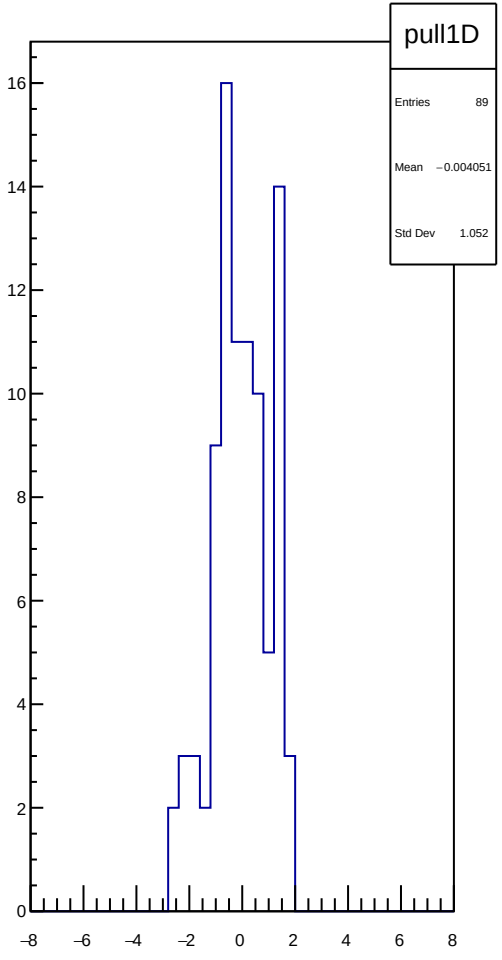

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 7741 / 88
p0 46.91 ± 0.03611
58
56
54
52
50
48
46
44
42
40

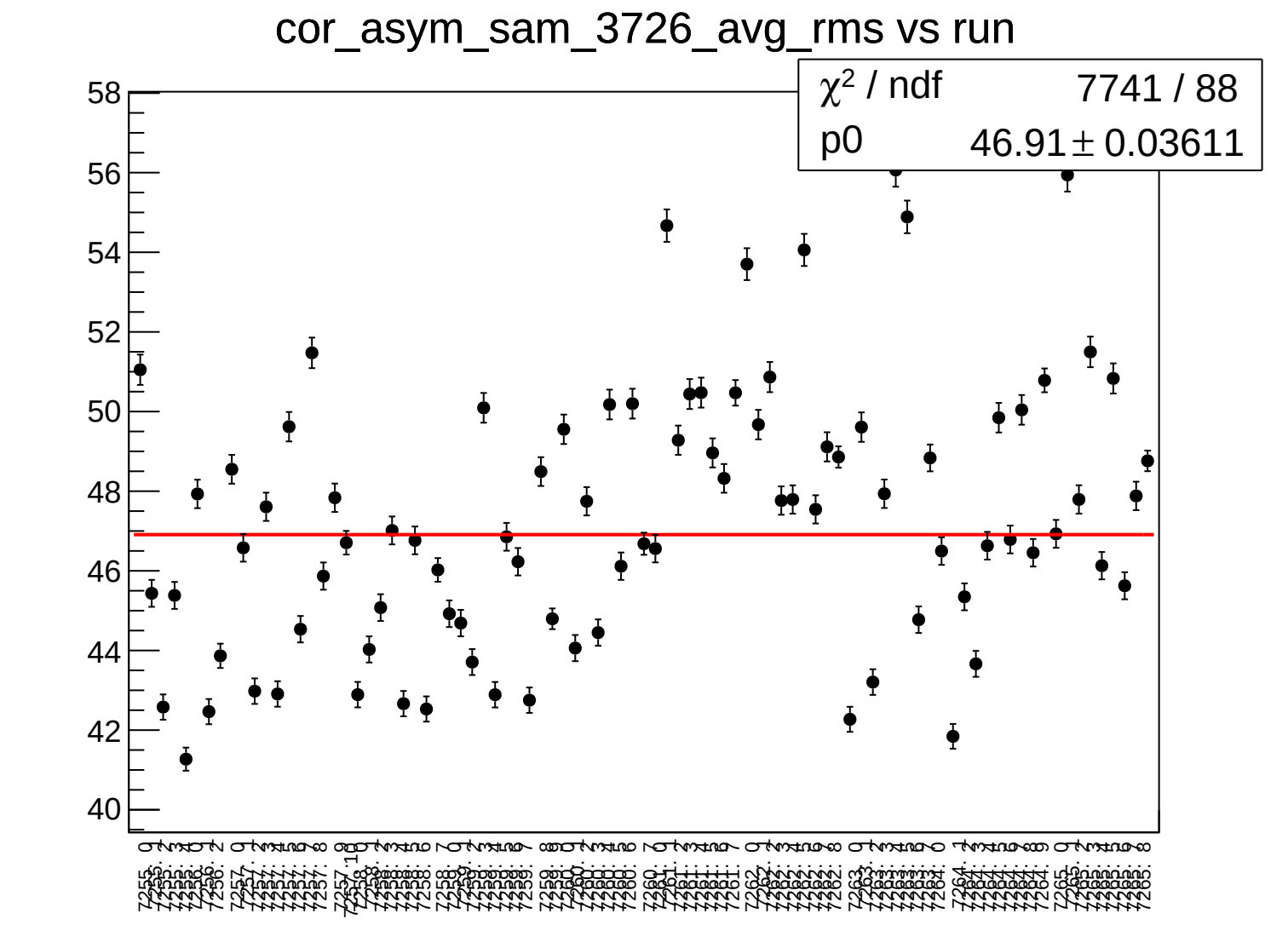

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 85.76 / 88
p0 −569.5 ± 391.6
pull
Entries 89
Mean −382.8
Std Dev 0

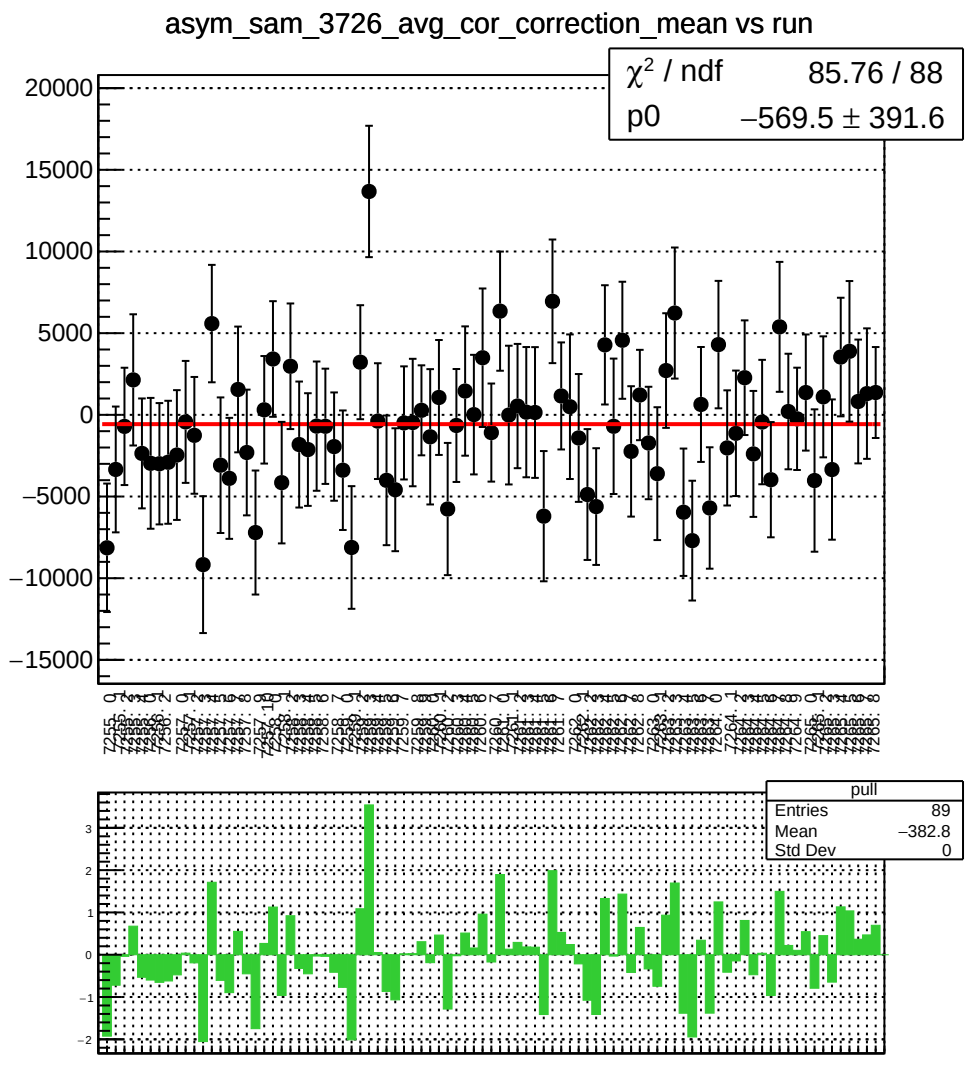

pull1D
Entries 89
Mean −0.01192
Std Dev 0.9816

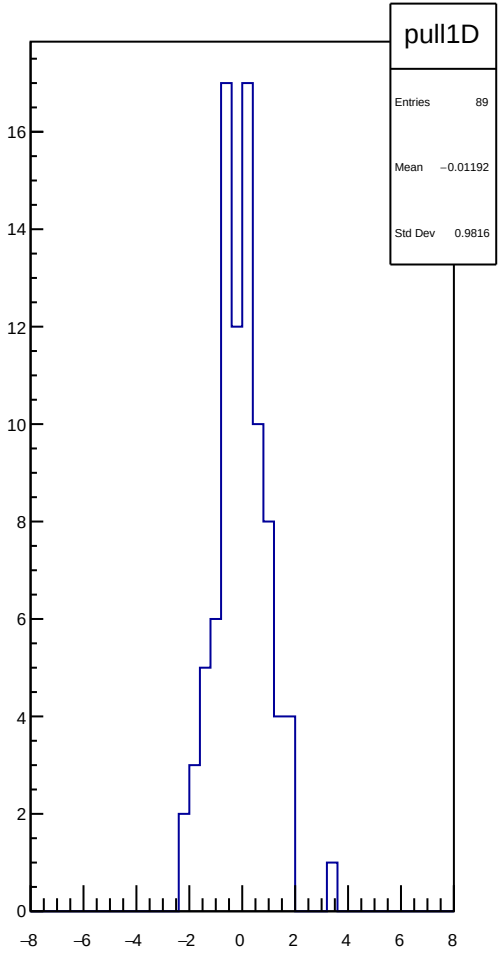

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 6000 / 88
p0 359.8 ± 0.2769
420
400
380
360
340
320

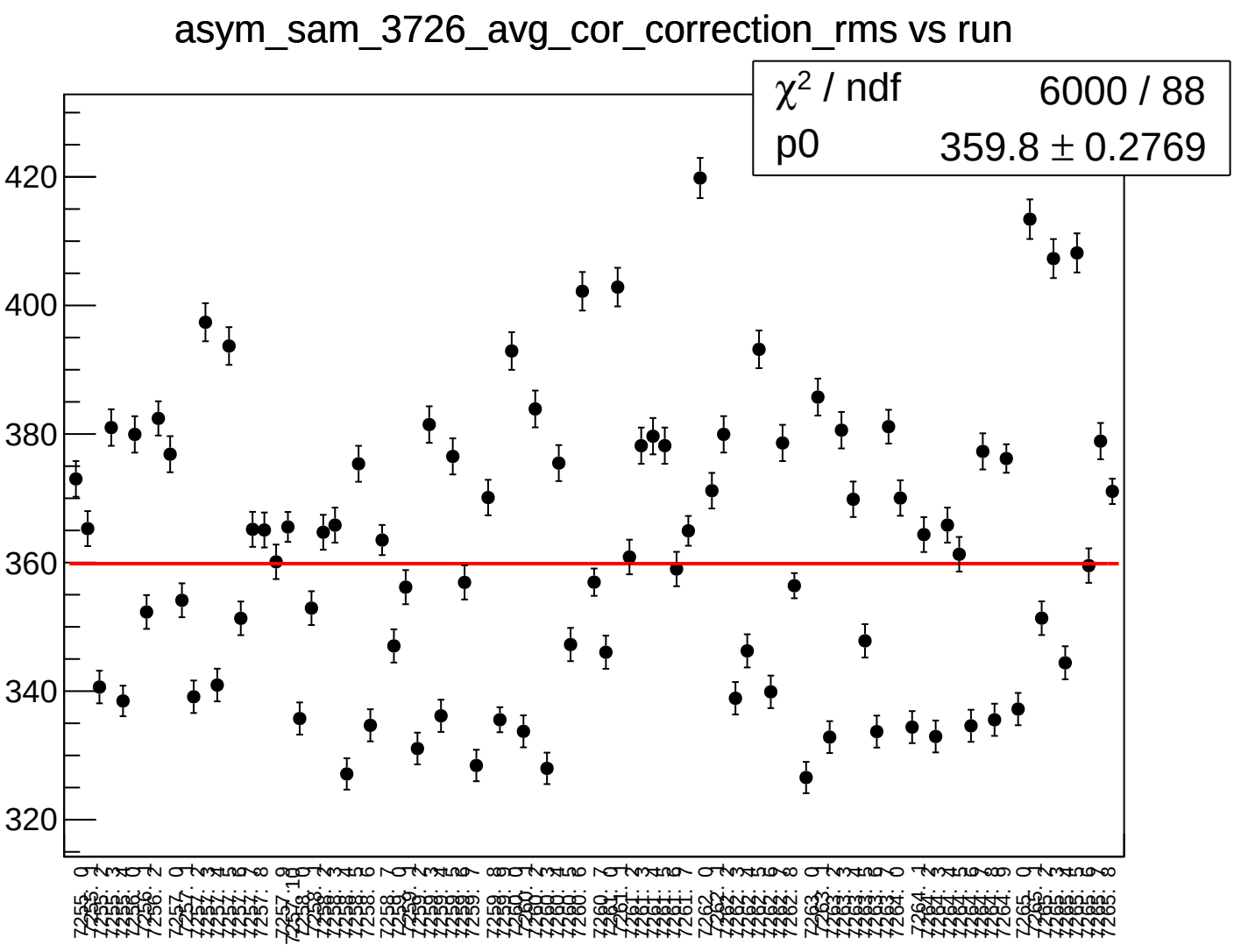

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 98.48 / 88
p0 −109.2 ± 51.07
pull
Entries 89
Mean −308.4
Std Dev 0

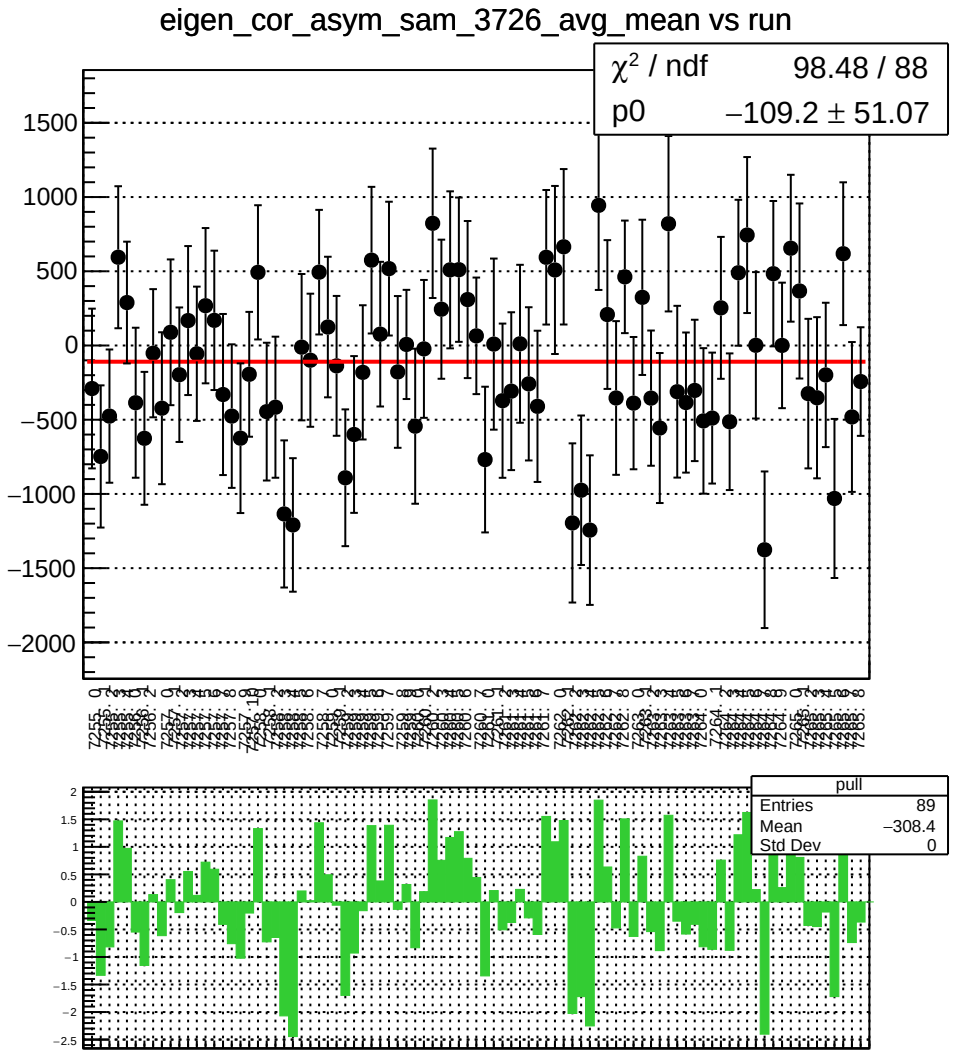

pull1D
Entries 89
Mean −0.004051
Std Dev 1.052

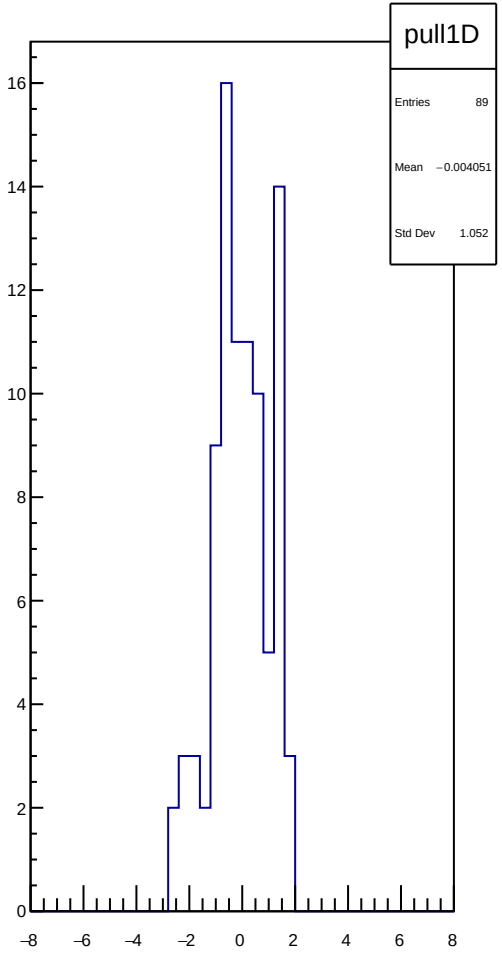

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 7741 / 88
p0 46.91 ± 0.03611
58
56
54
52
50
48
46
44
42
40

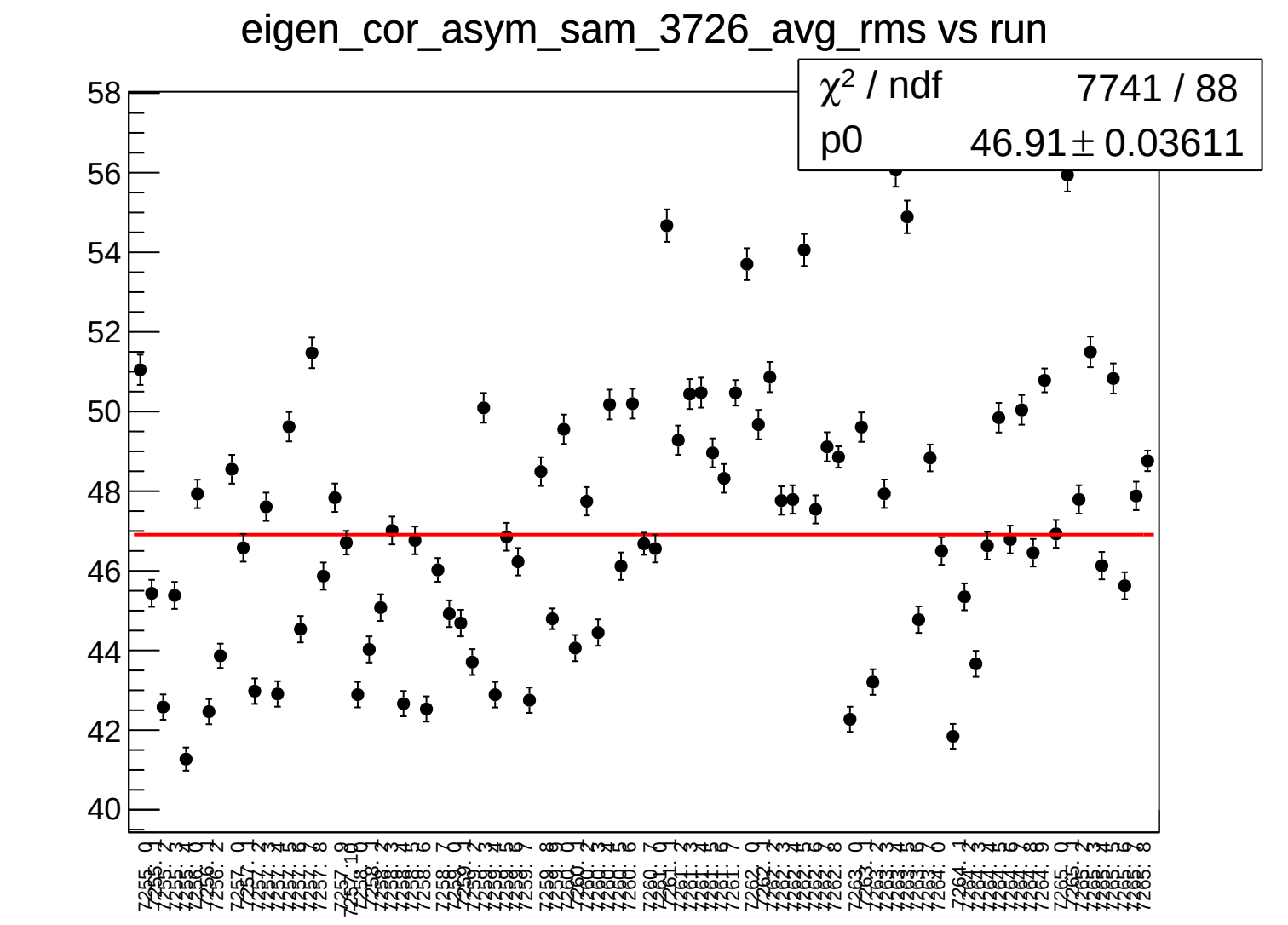

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 85.76 / 88
p0 −569.5 ± 391.6
pull
Entries 89
Mean −382.8
Std Dev 0

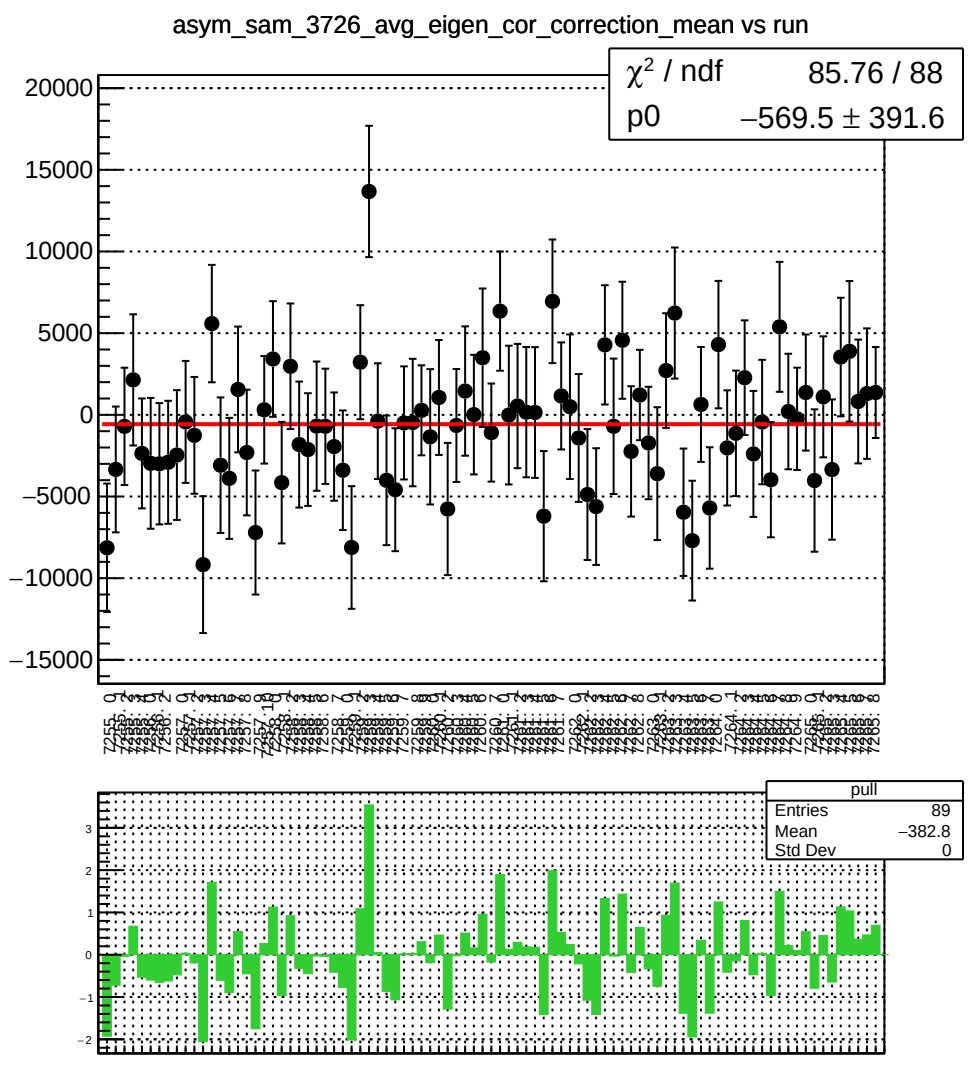

pull1D
Entries 89
Mean −0.01192
Std Dev 0.9816

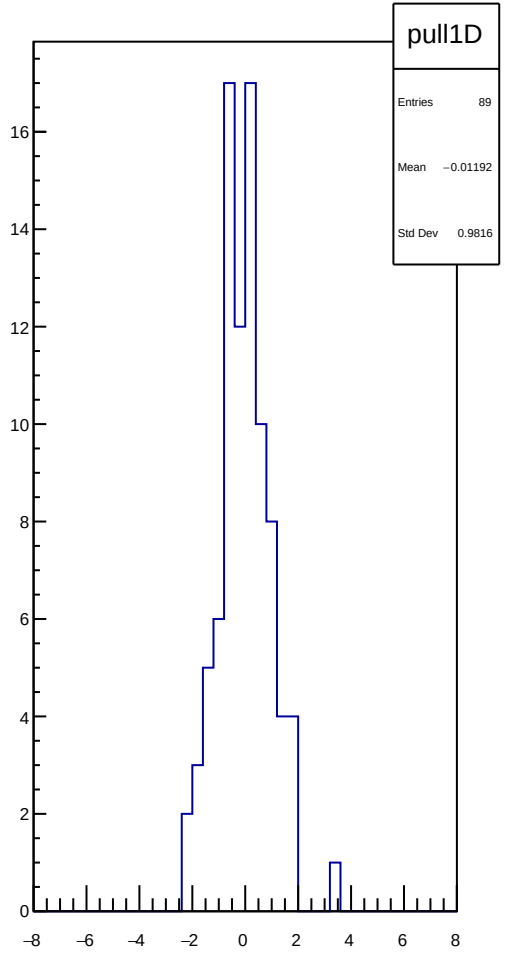

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 6000 / 88
p0 359.8 ± 0.2769
420
400
380
360
340
320

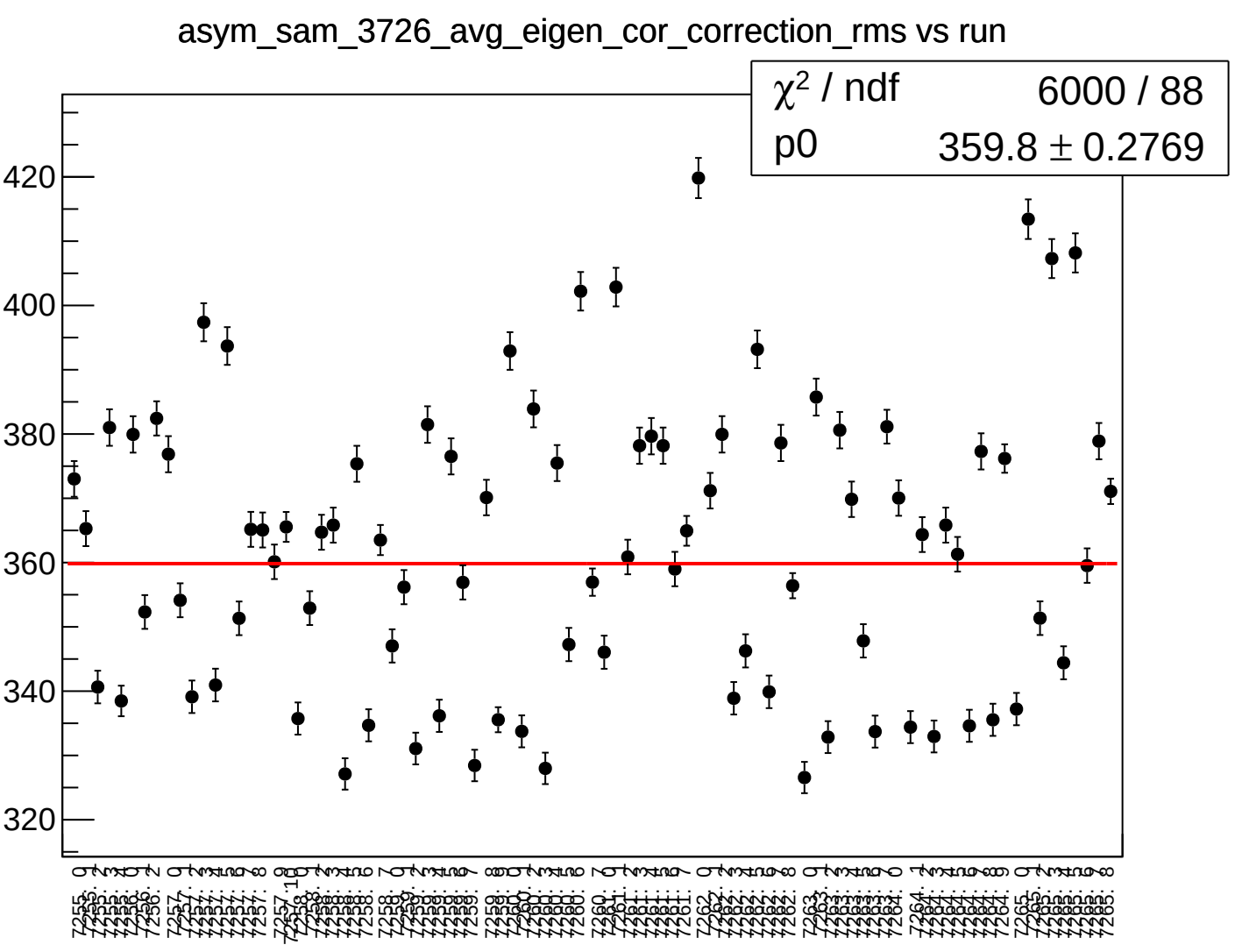

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 98.48 / 88
p0 −109.2 ± 51.07
pull
Entries 89
Mean −308.4
Std Dev 0

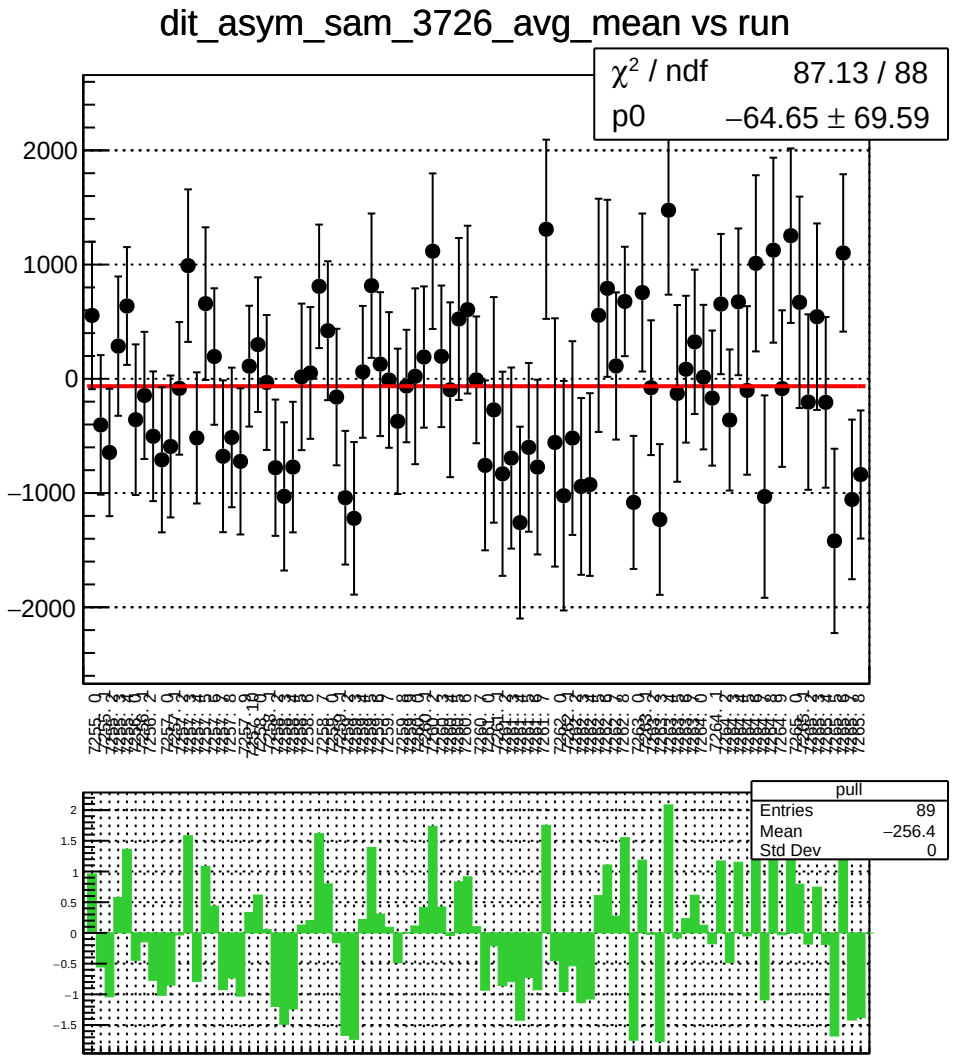

pull1D
Entries 89
Mean −0.004051
Std Dev 1.052

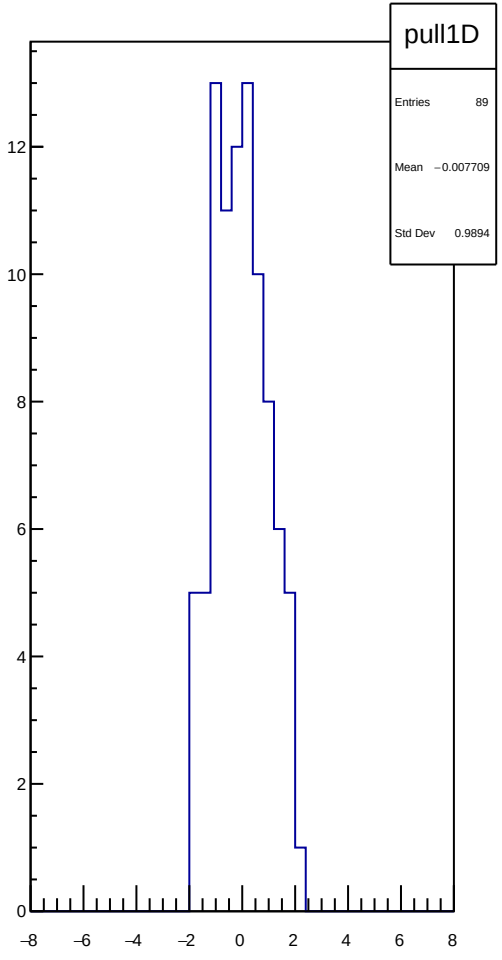

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 7741 / 88
p0 46.91 ± 0.03611
58
56
54
52
50
48
46
44
42
40

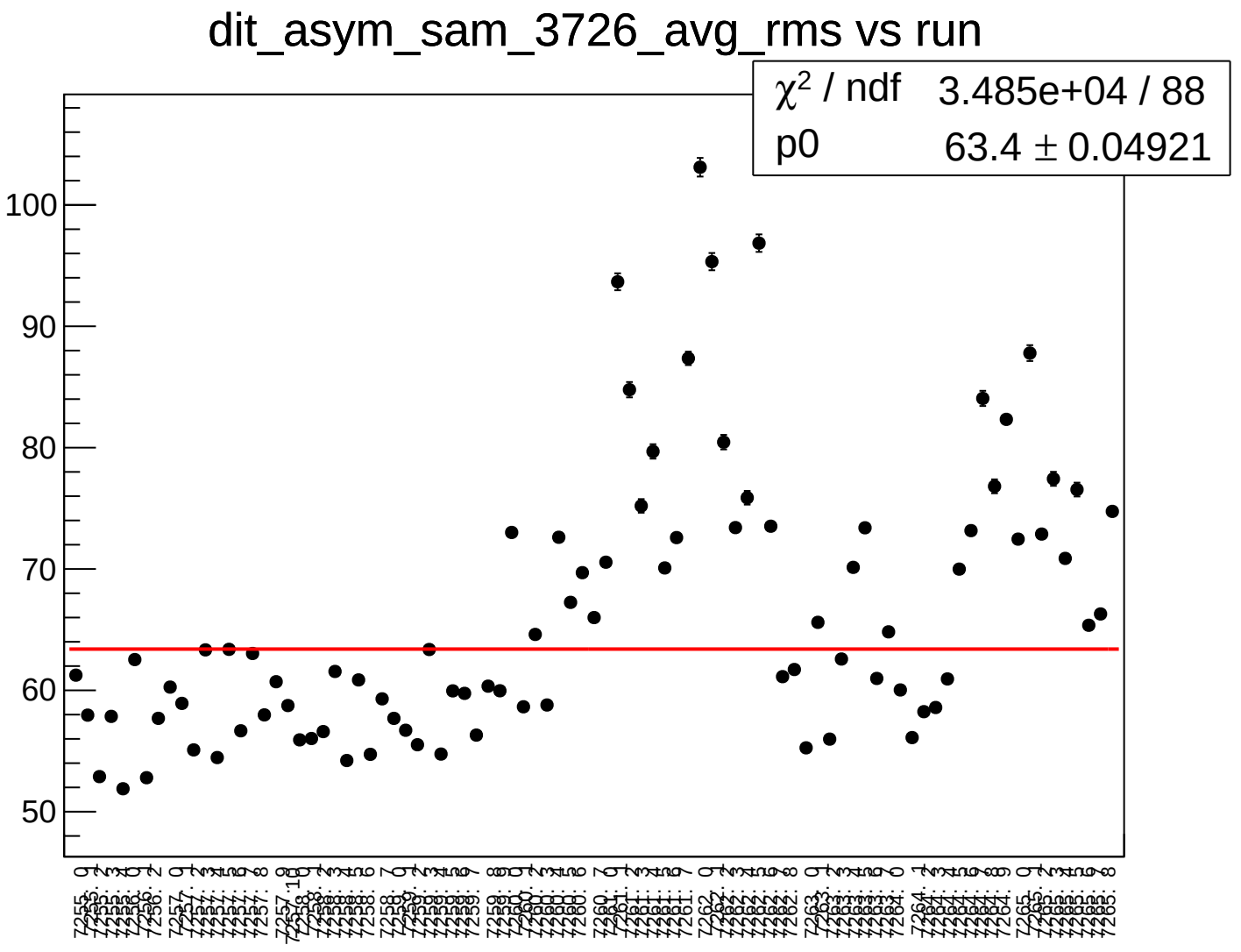

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.76 / 88
p0 −569.5 ± 391.6
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −382.8
Std Dev 0
3
2
1
0
−1
−2

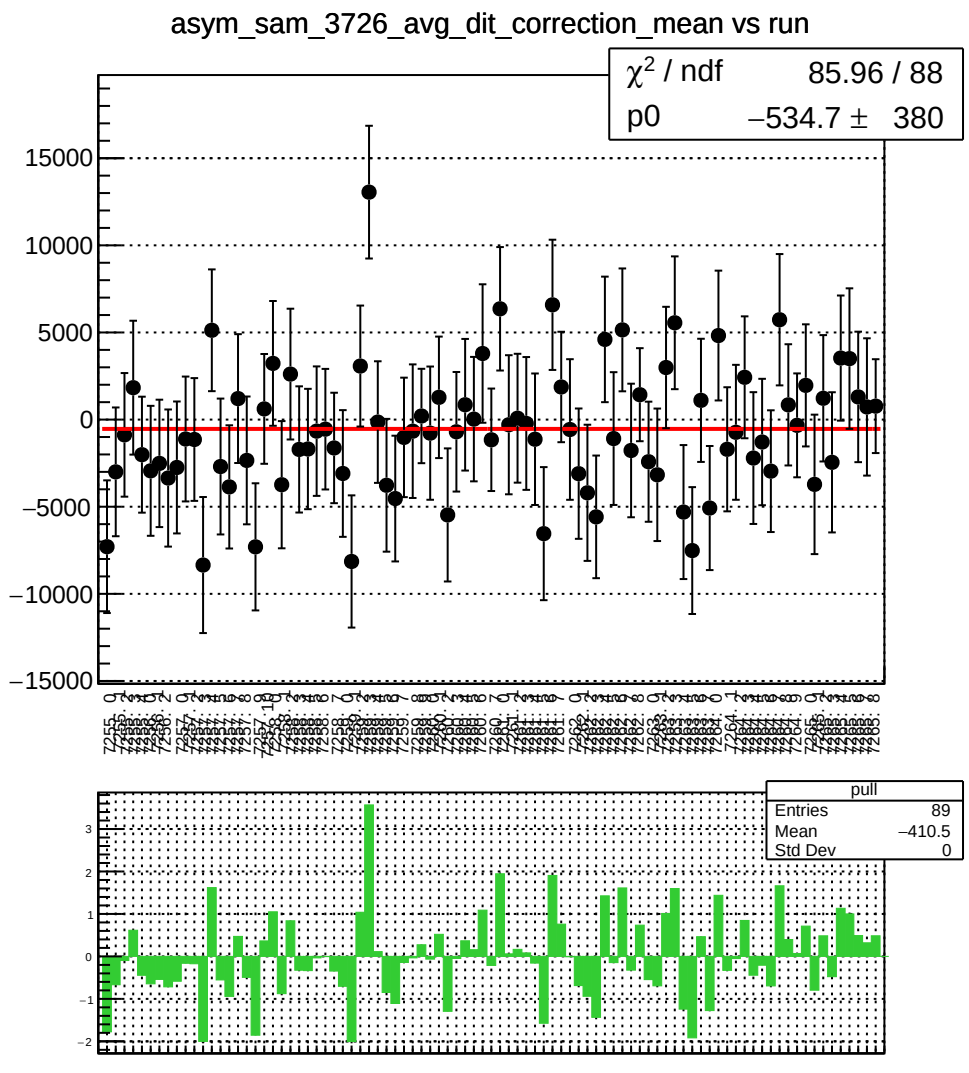

pull1D
Entries 89
Mean −0.01192
Std Dev 0.9816
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

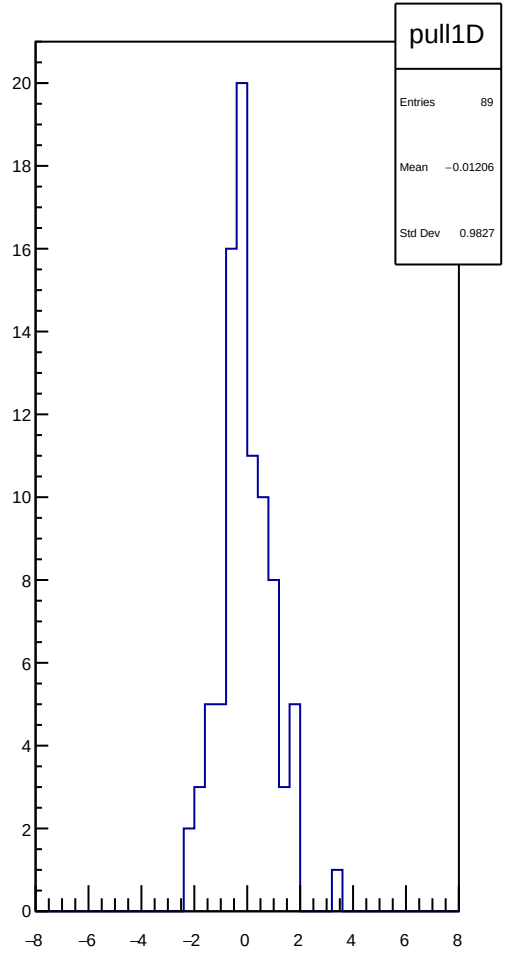

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 6000 / 88
p0 359.8 ± 0.2769
420
400
380
360
340
320

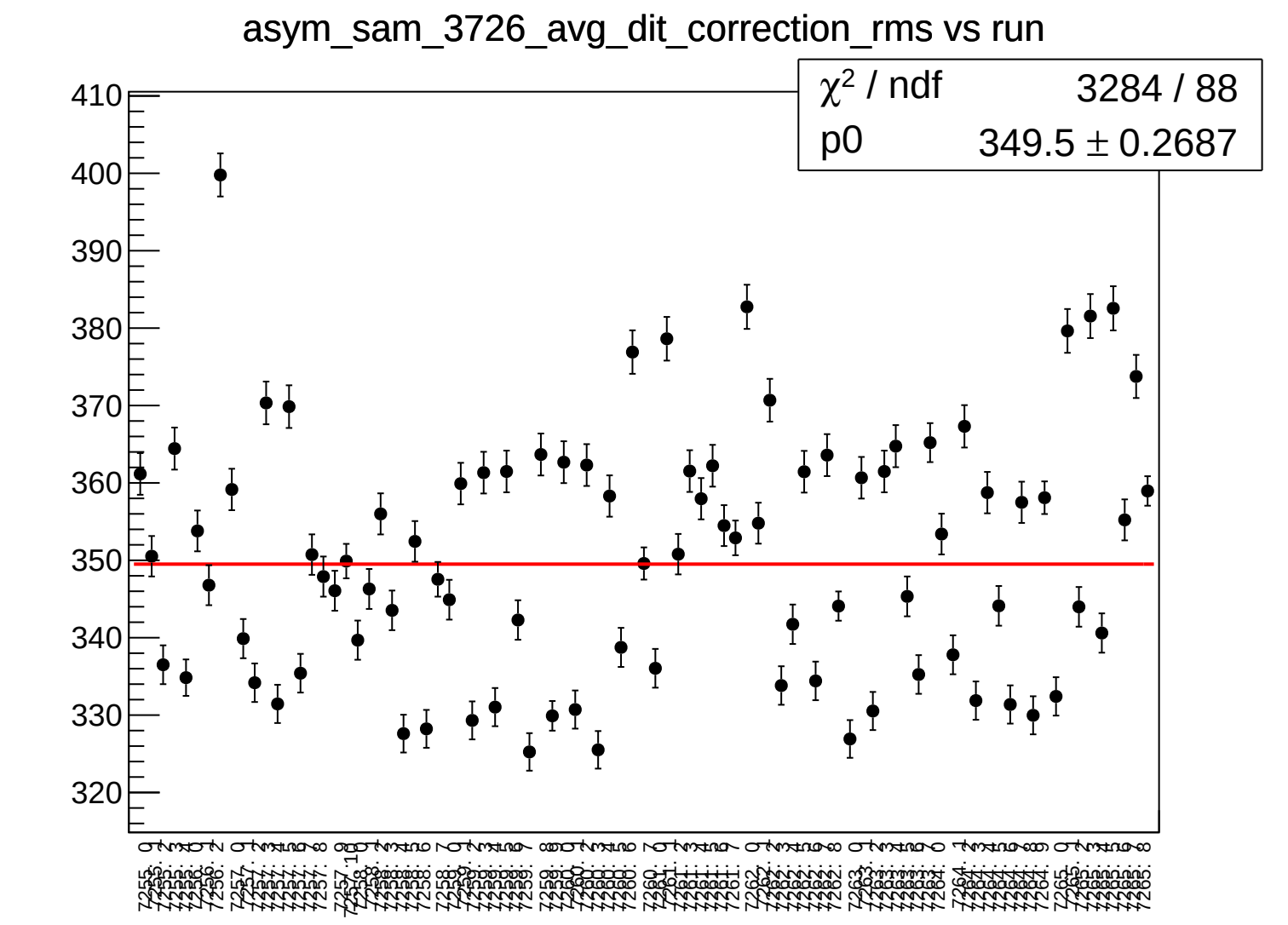

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 87.13 / 88
p0 −64.65 ± 69.59
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −256.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

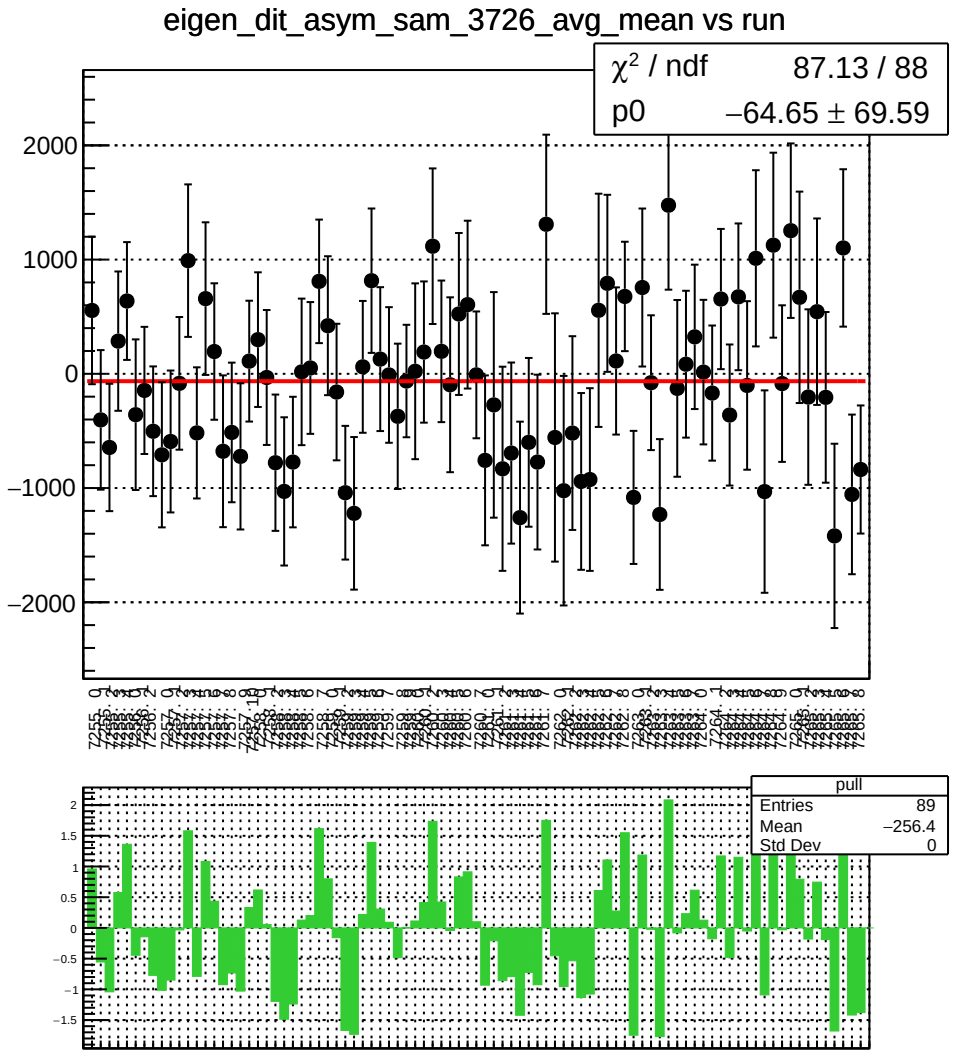

pull1D
Entries 89
Mean −0.007709
Std Dev 0.9894
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

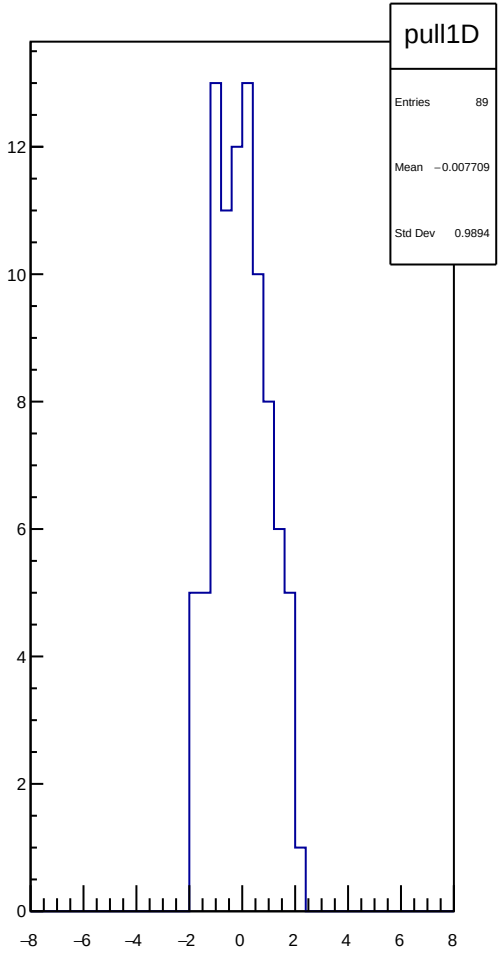

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 3.485e+04 / 88
p0 63.4 ± 0.04921
100
90
80
70
60
50

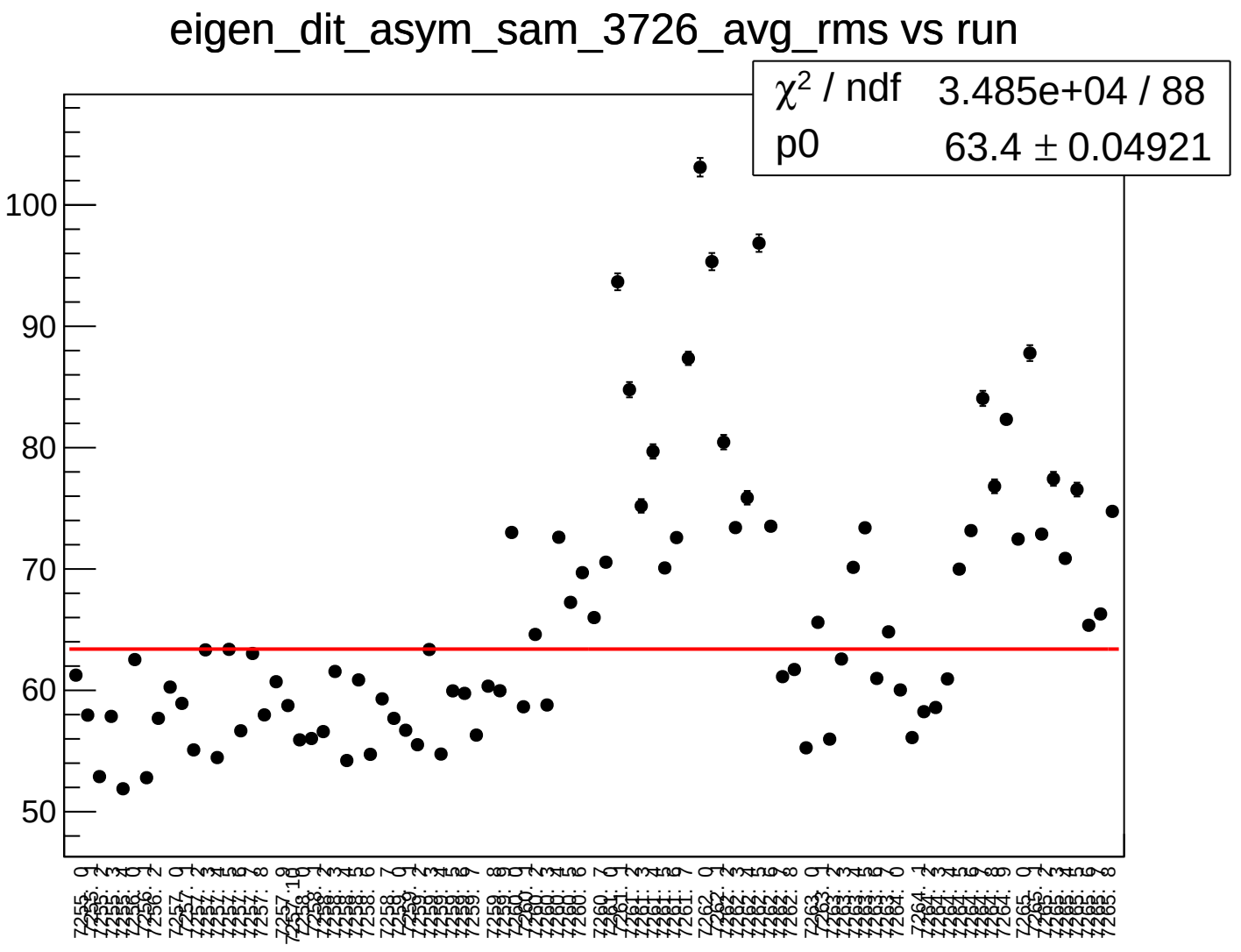

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 85.96 / 88
p0 −534.7 ± 380
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −410.5
Std Dev 0
3
2
1
0
−1
−2

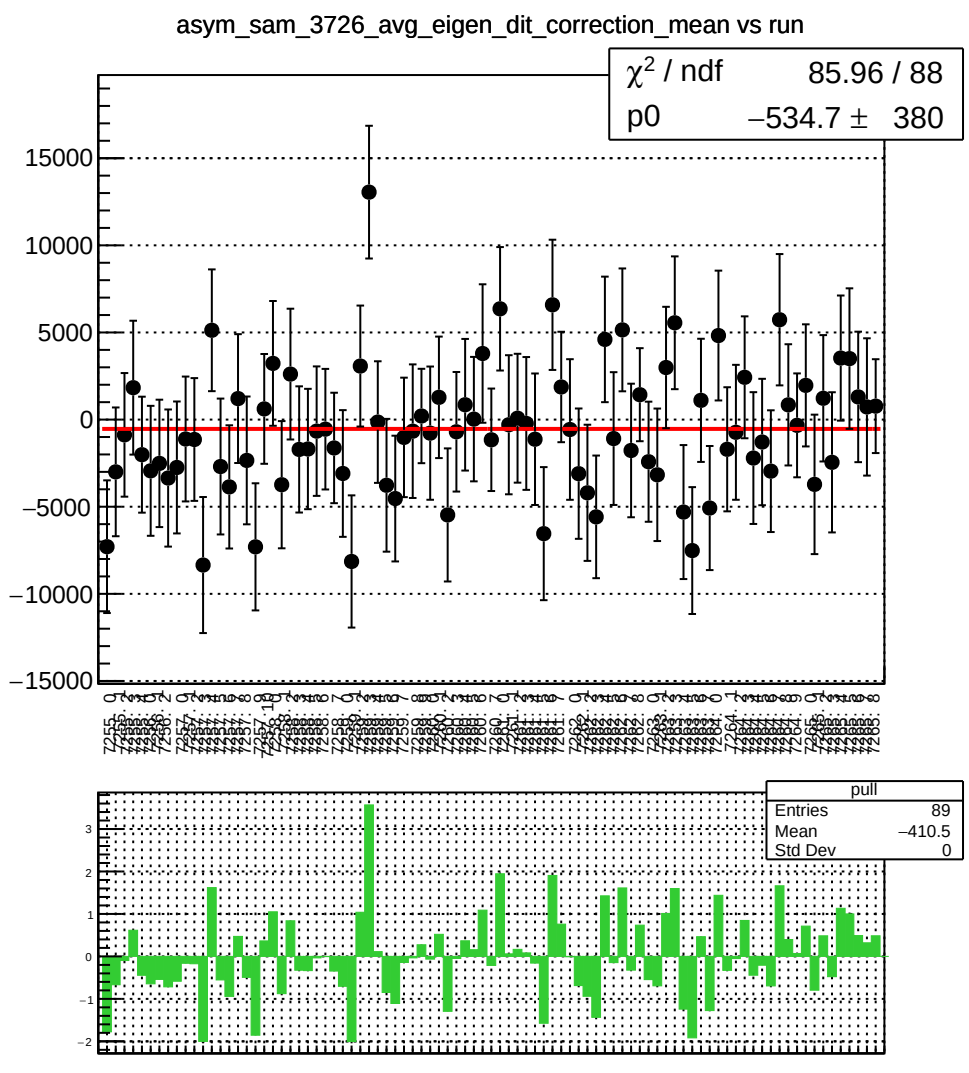

pull1D
Entries 89
Mean −0.01206
Std Dev 0.9827
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

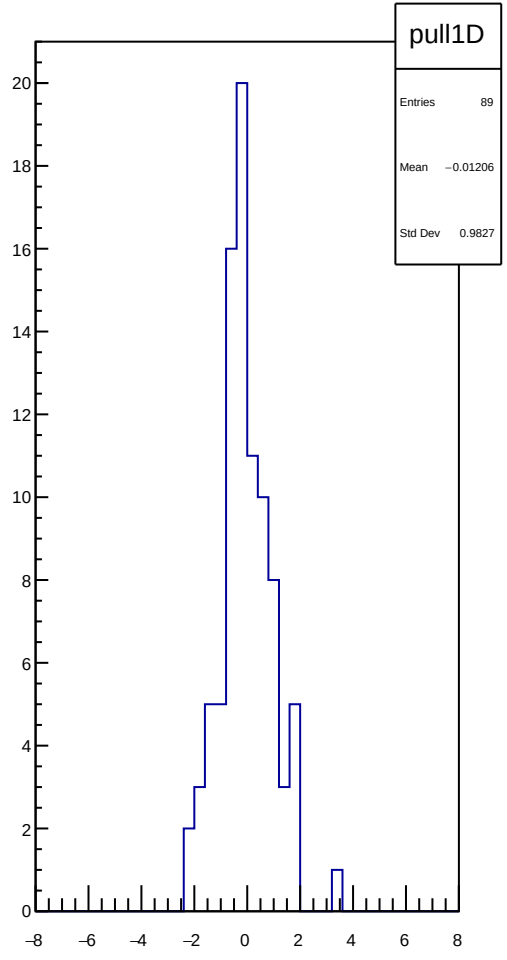

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 3284 / 88
p0 349.5 ± 0.2687
410
400
390
380
370
360
350
340
330
320

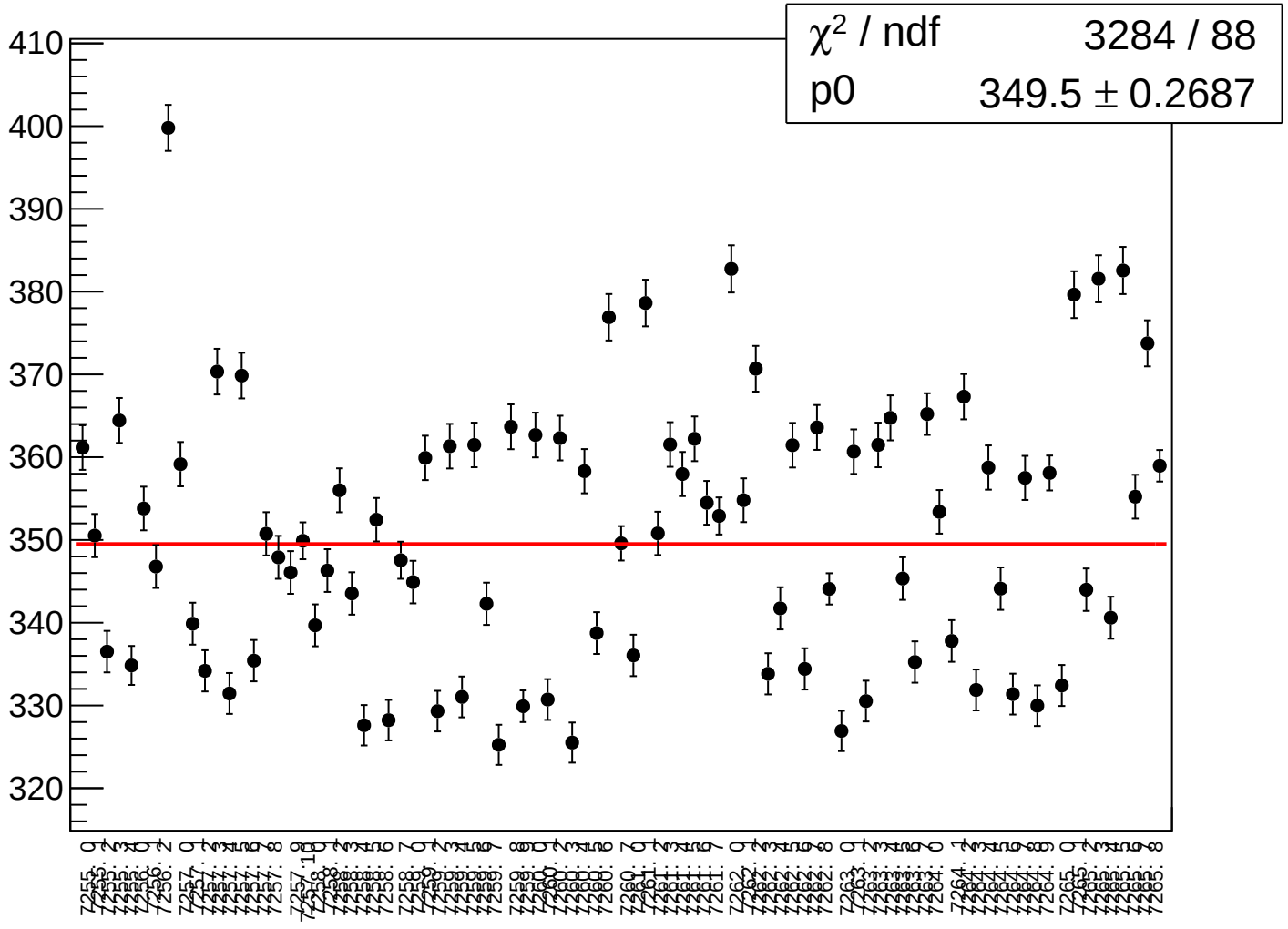

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 87.13 / 88
p0 −64.65 ± 69.59
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −256.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

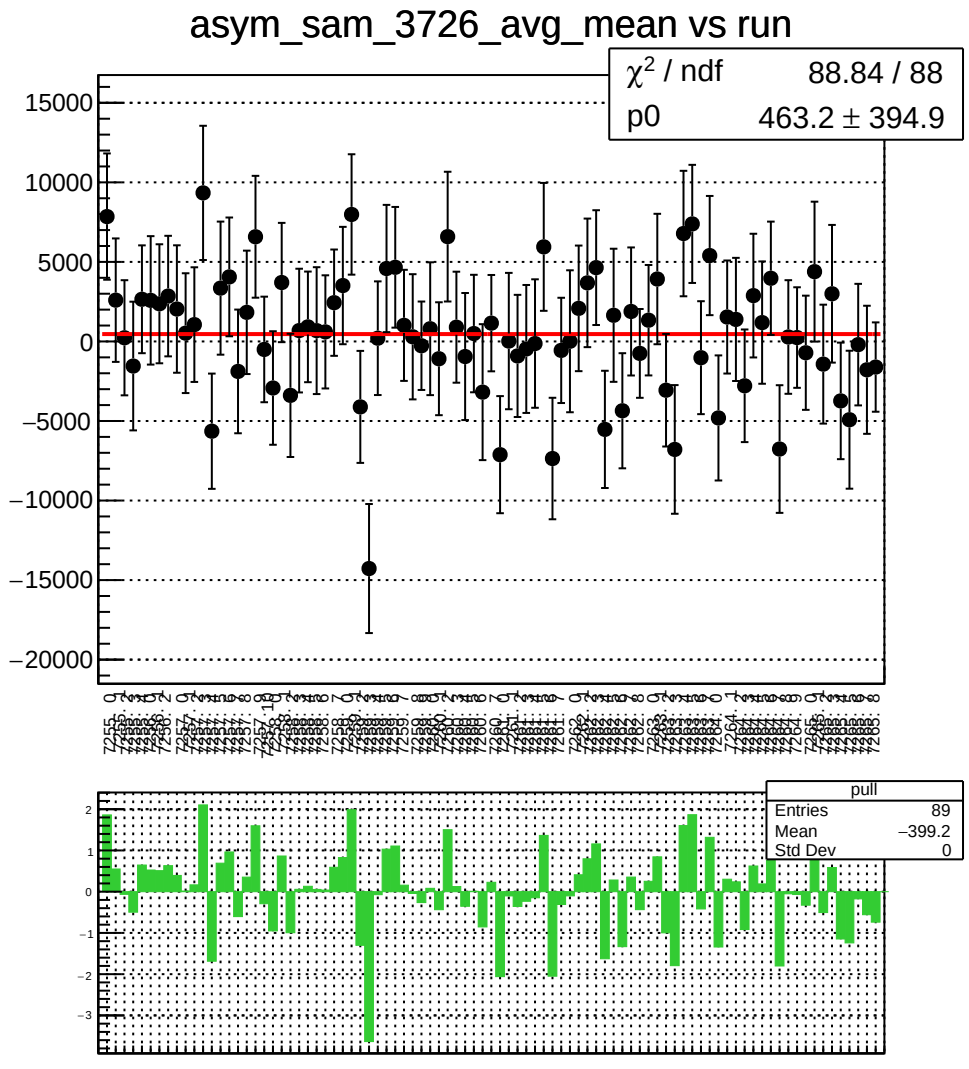

pull1D
Entries 89
Mean −0.007709
Std Dev 0.9894
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

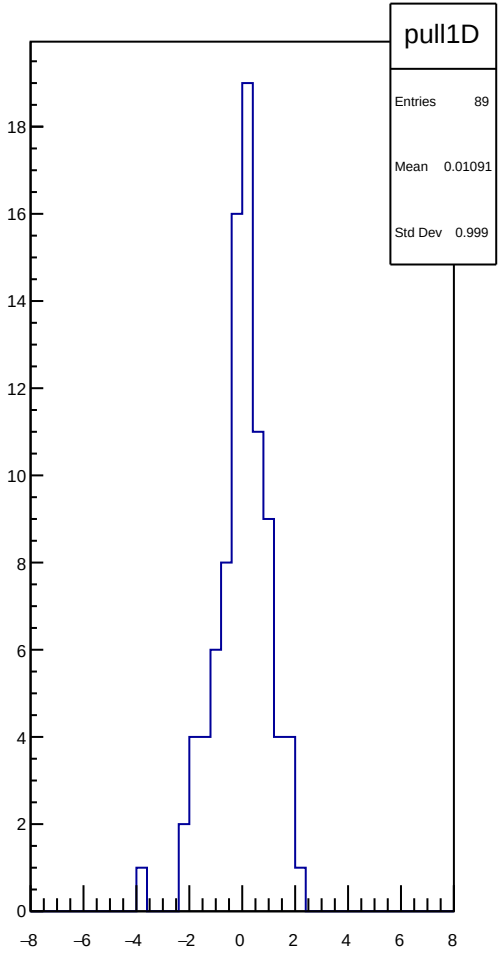

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 3.485e+04 / 88
p0 63.4 ± 0.04921
100
90
80
70
60
50

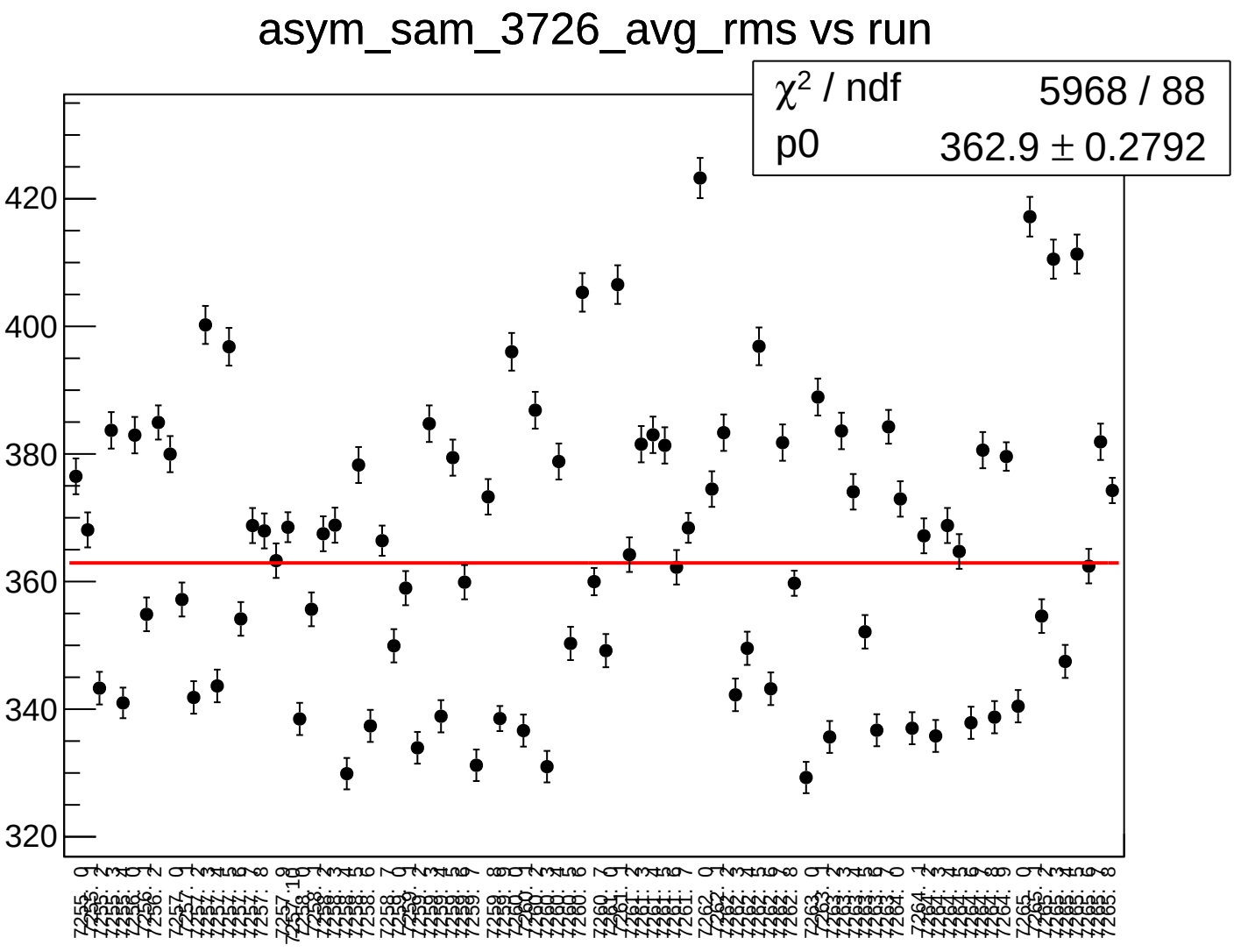

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.96 / 88
p0 −534.7 ± 380
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −410.5
Std Dev 0
3
2
1
0
−1
−2

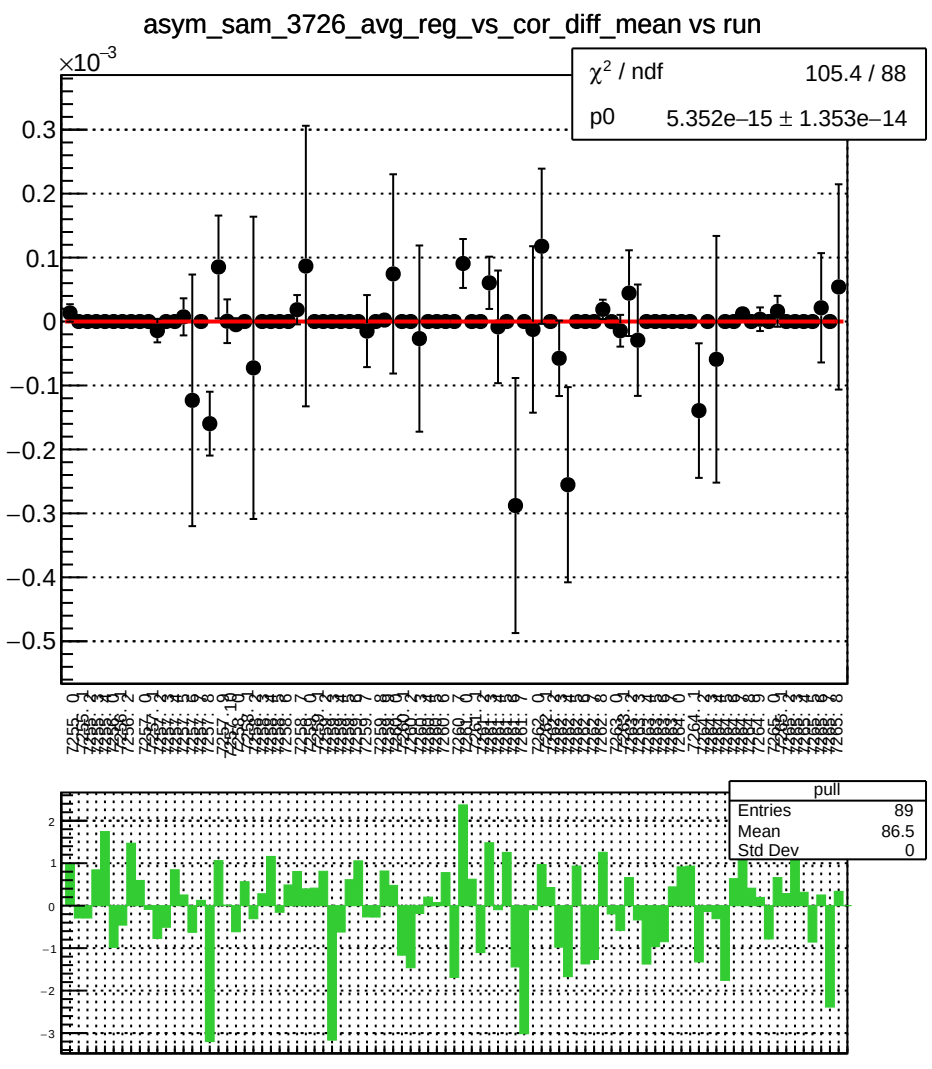

pull1D
Entries 89
Mean −0.01206
Std Dev 0.9827
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

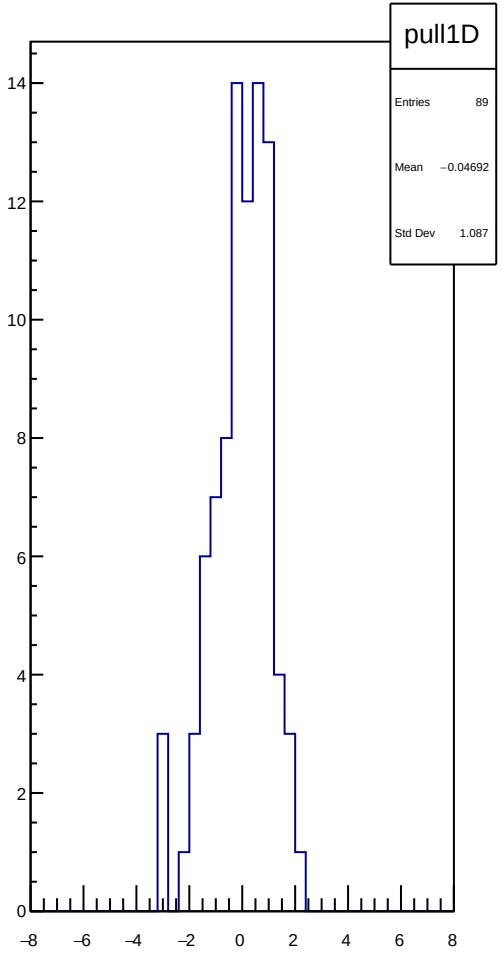

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 3284 / 88
p0 349.5 ± 0.2687
410
400
390
380
370
360
350
340
330
320

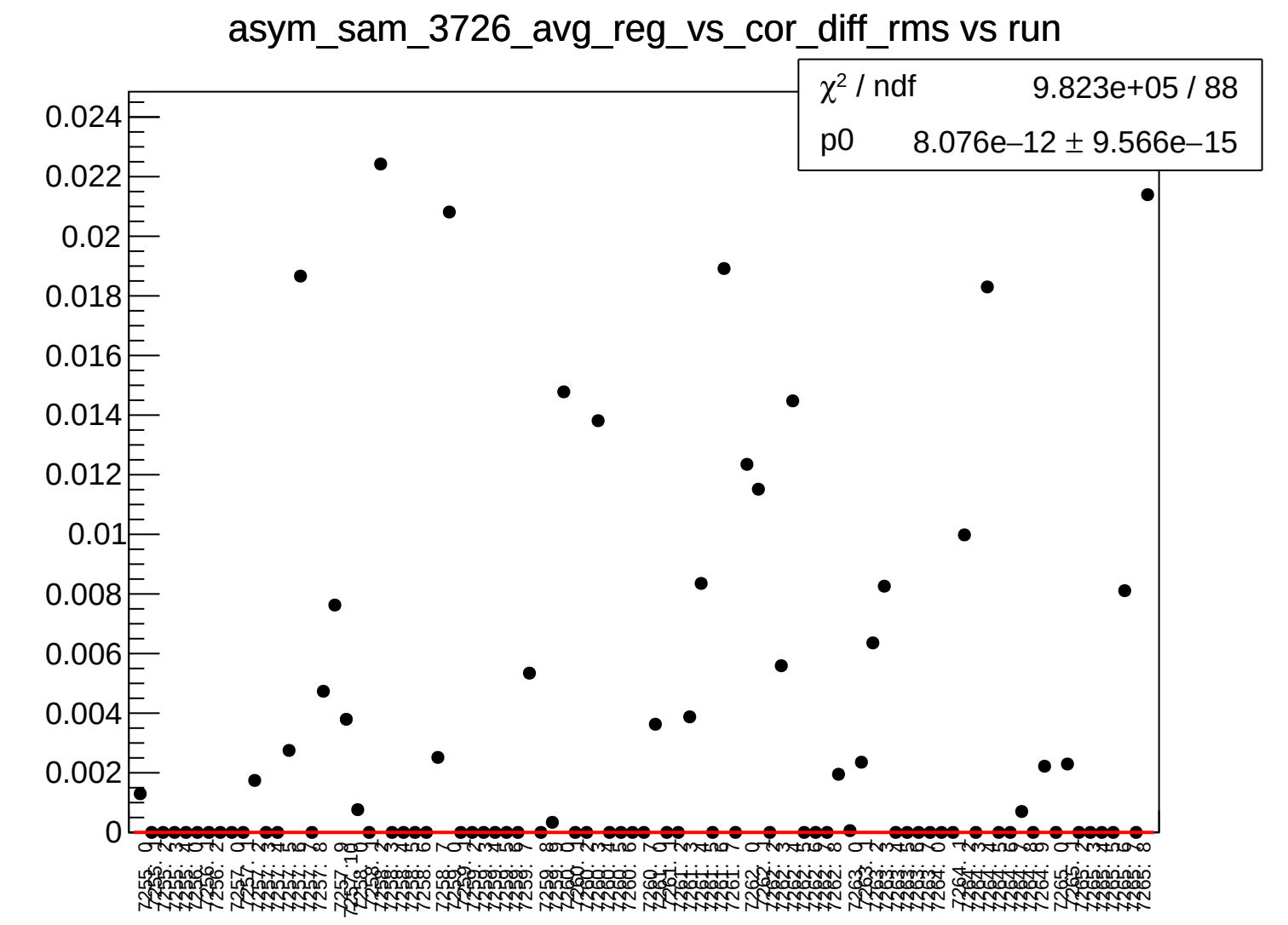

asym_sam_3726_avg_mean vs run
χ² / ndf 88.84 / 88
p0 463.2 ± 394.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −399.2
Std Dev 0
2
1
0
−1
−2
−3

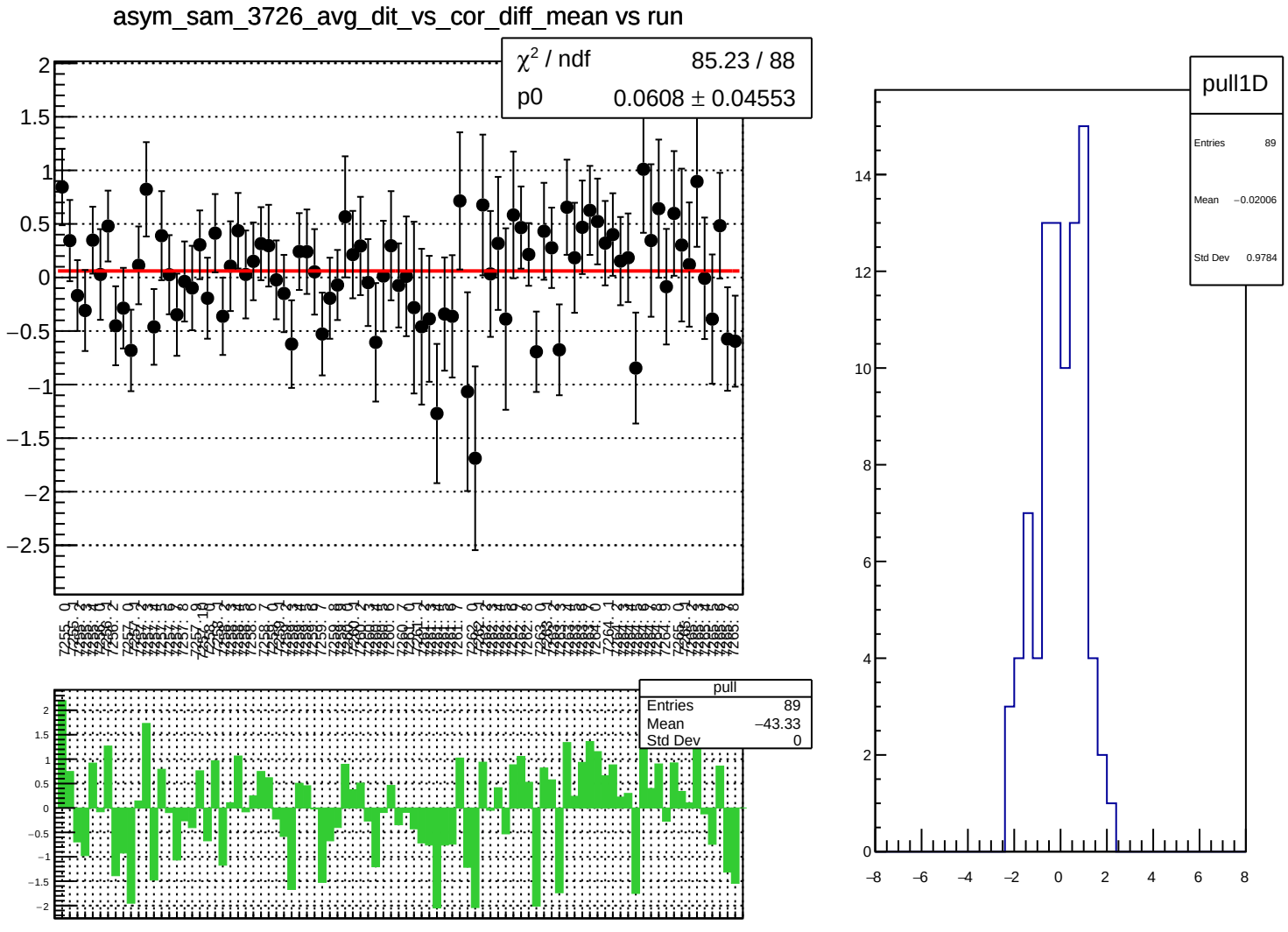

pull1D
Entries 89
Mean 0.01091
Std Dev 0.999
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

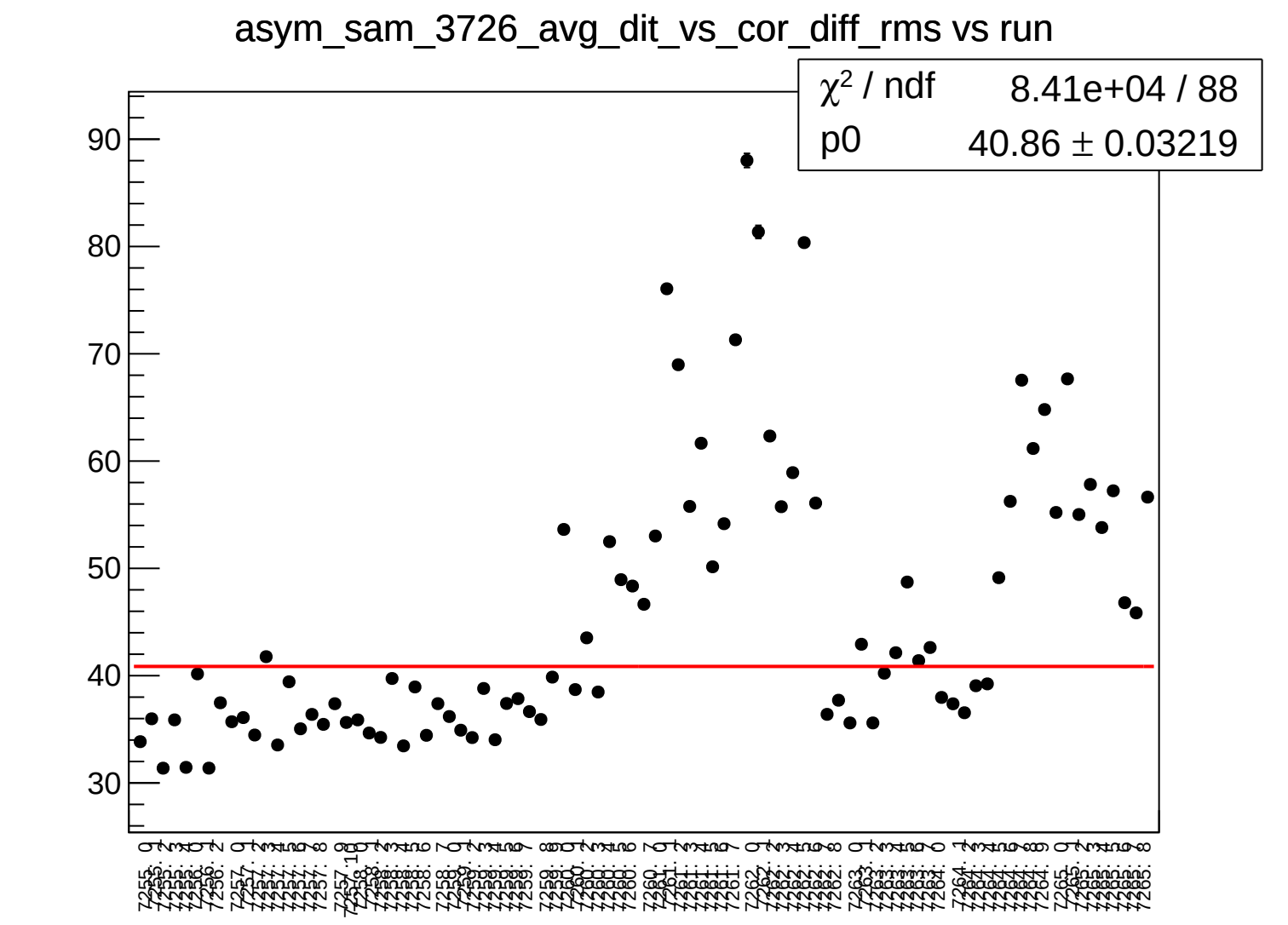

asym_sam_3726_avg_rms vs run
χ^2 / ndf 5968 / 88
p0 362.9 ± 0.2792
420
400
380
360
340
320

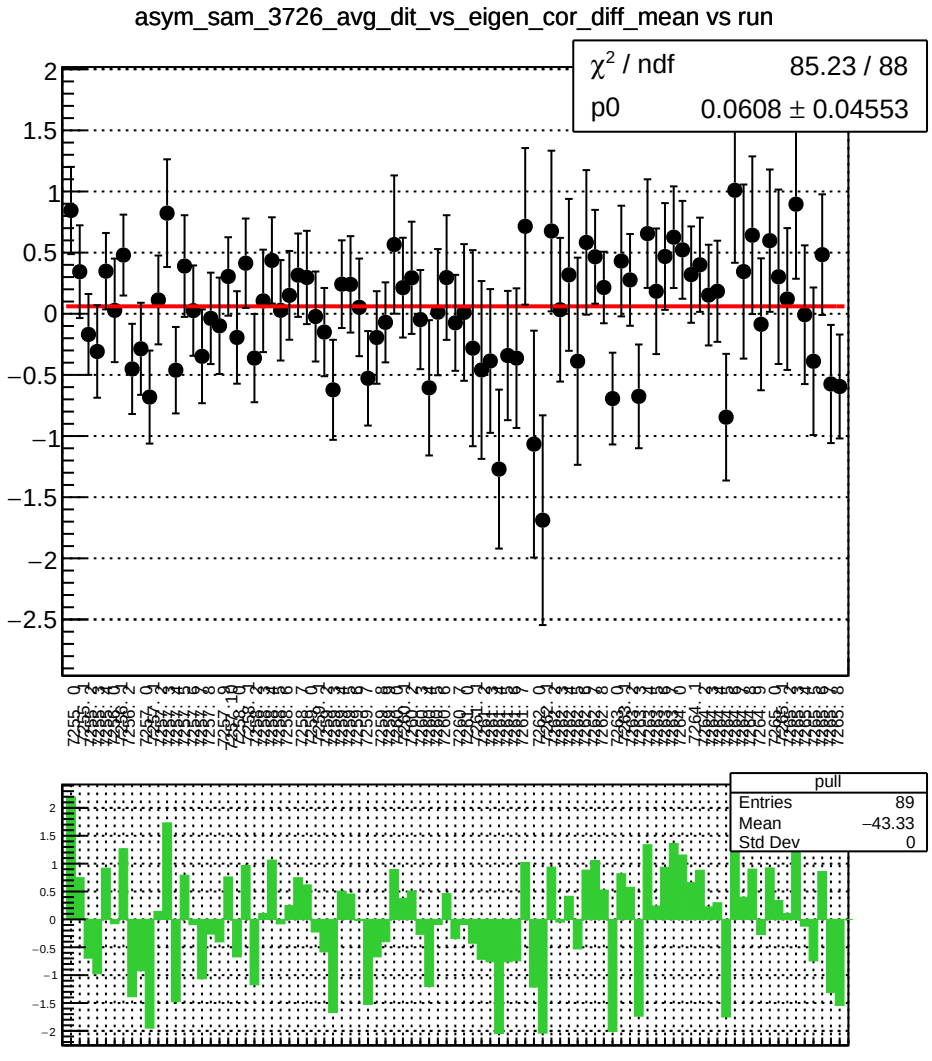

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 105.4 / 88
p0 5.352e−15 ± 1.353e−14
pull
Entries 89
Mean 86.5
Std Dev 0

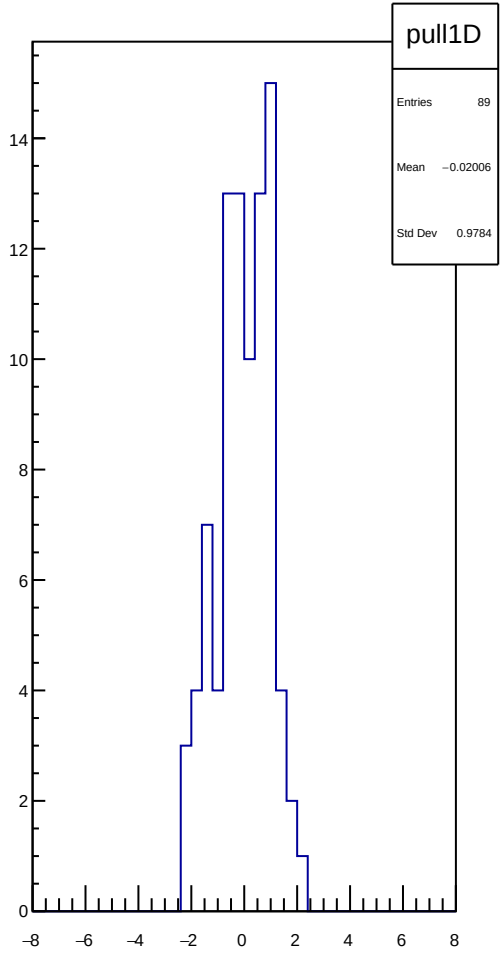

pull1D
Entries 89
Mean −0.04692
Std Dev 1.087

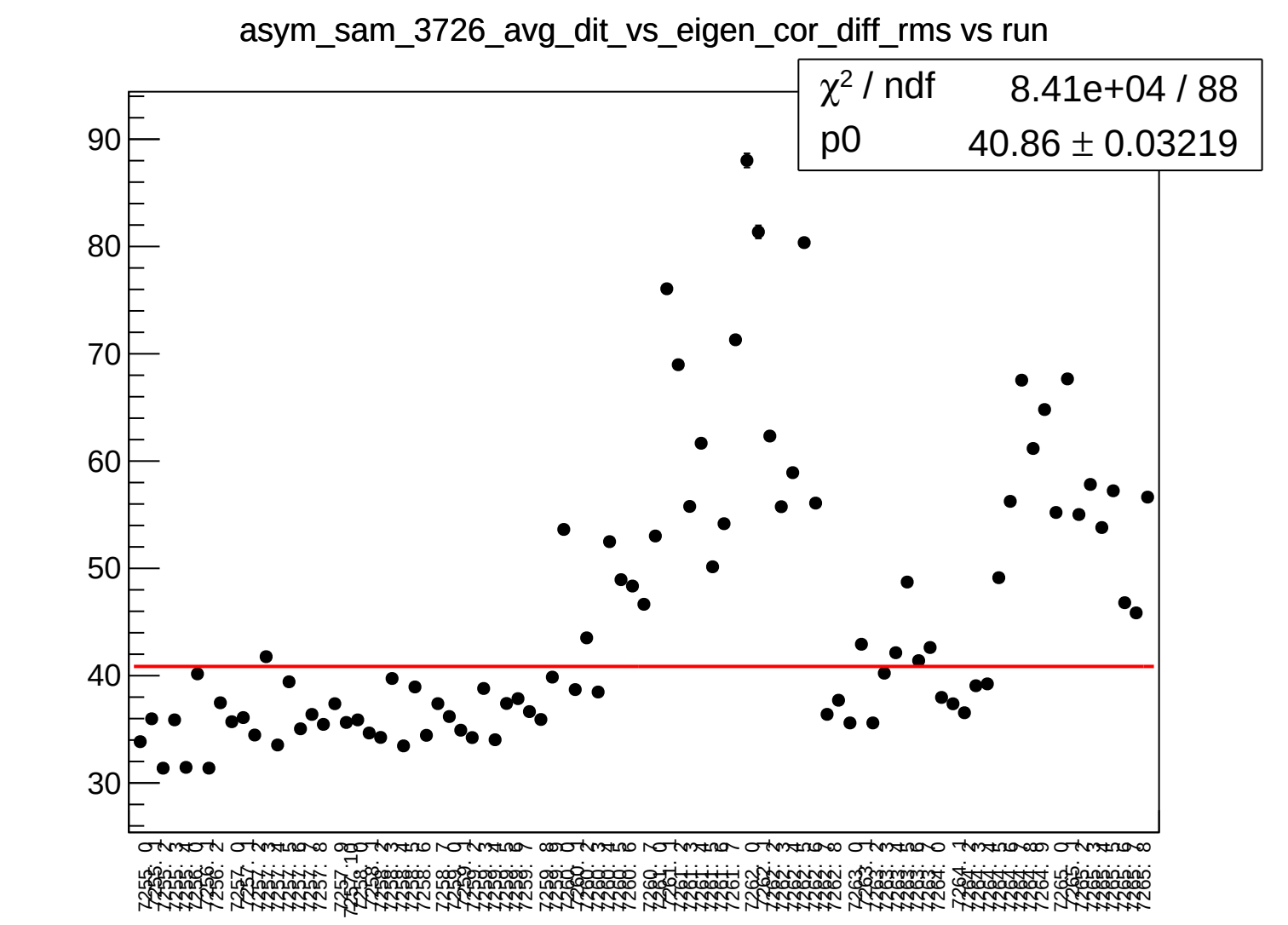

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.823e+05 / 88
p0 8.076e−12 ± 9.566e−15
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

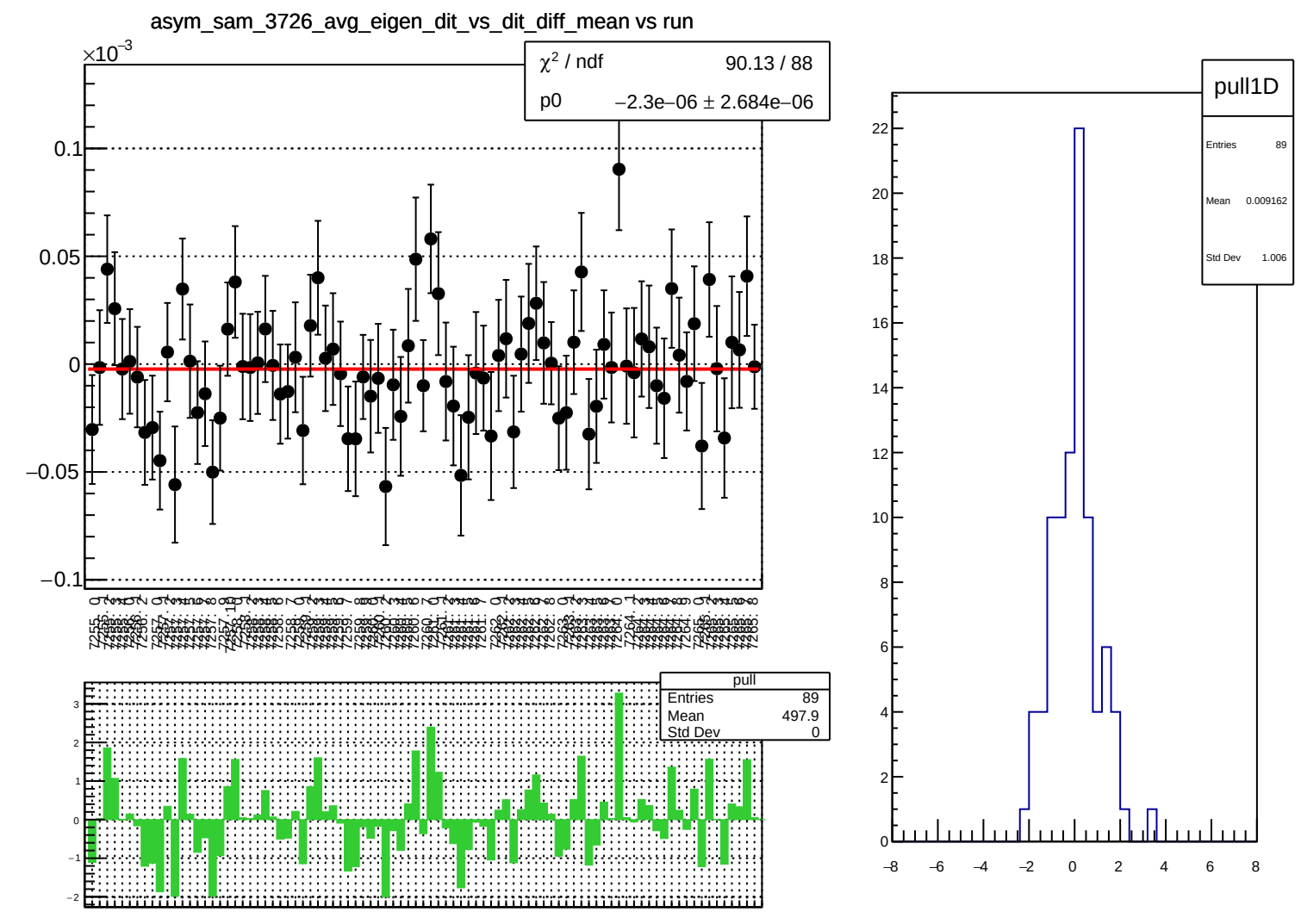

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.23 / 88
p0 0.0608 ± 0.04553
pull
Entries 89
Mean −43.33
Std Dev 0
pull1D
Entries 89
Mean −0.02006
Std Dev 0.9784

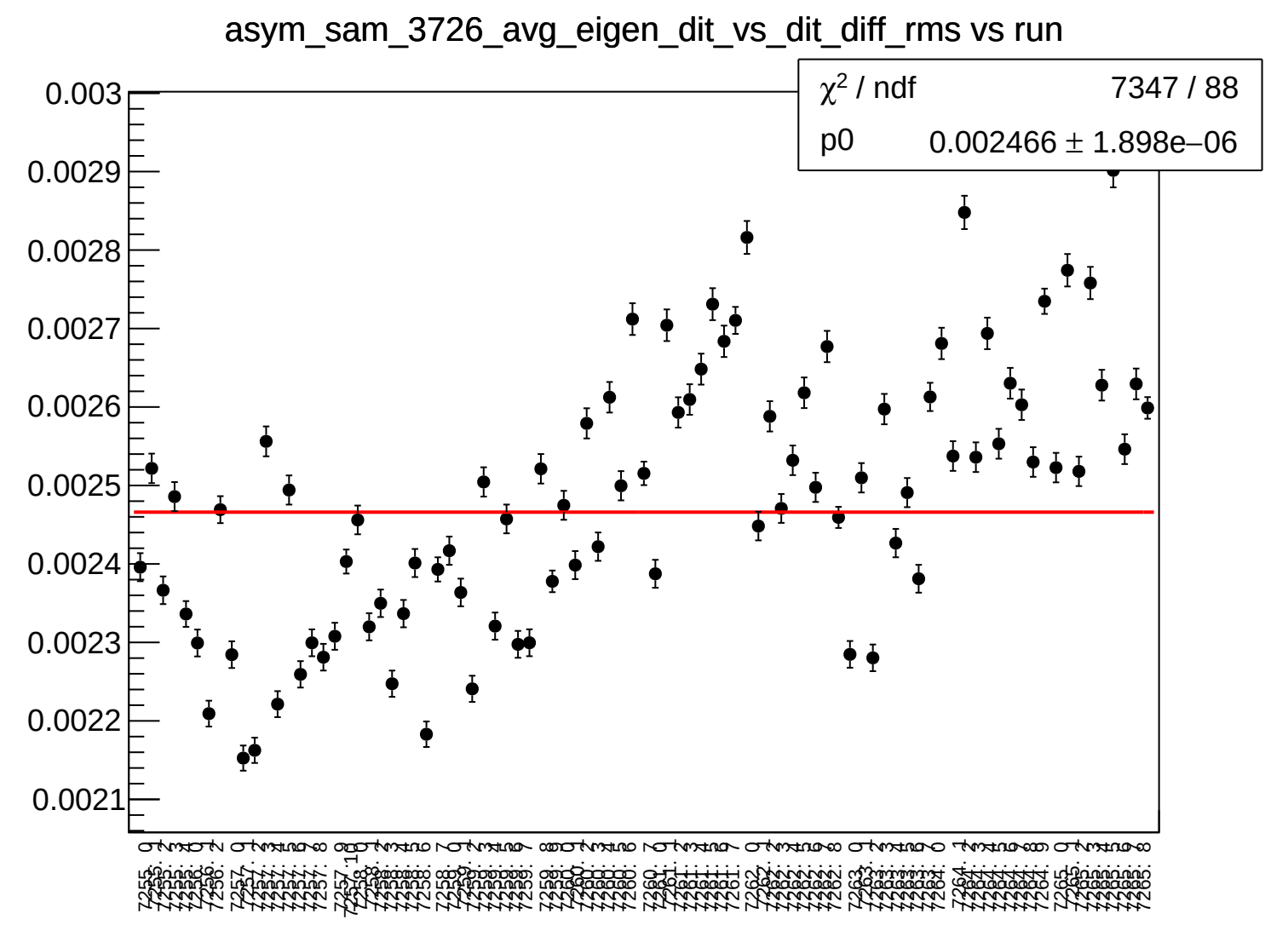

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.41e+04 / 88
p0 40.86 ± 0.03219
90
80
70
60
50
40
30

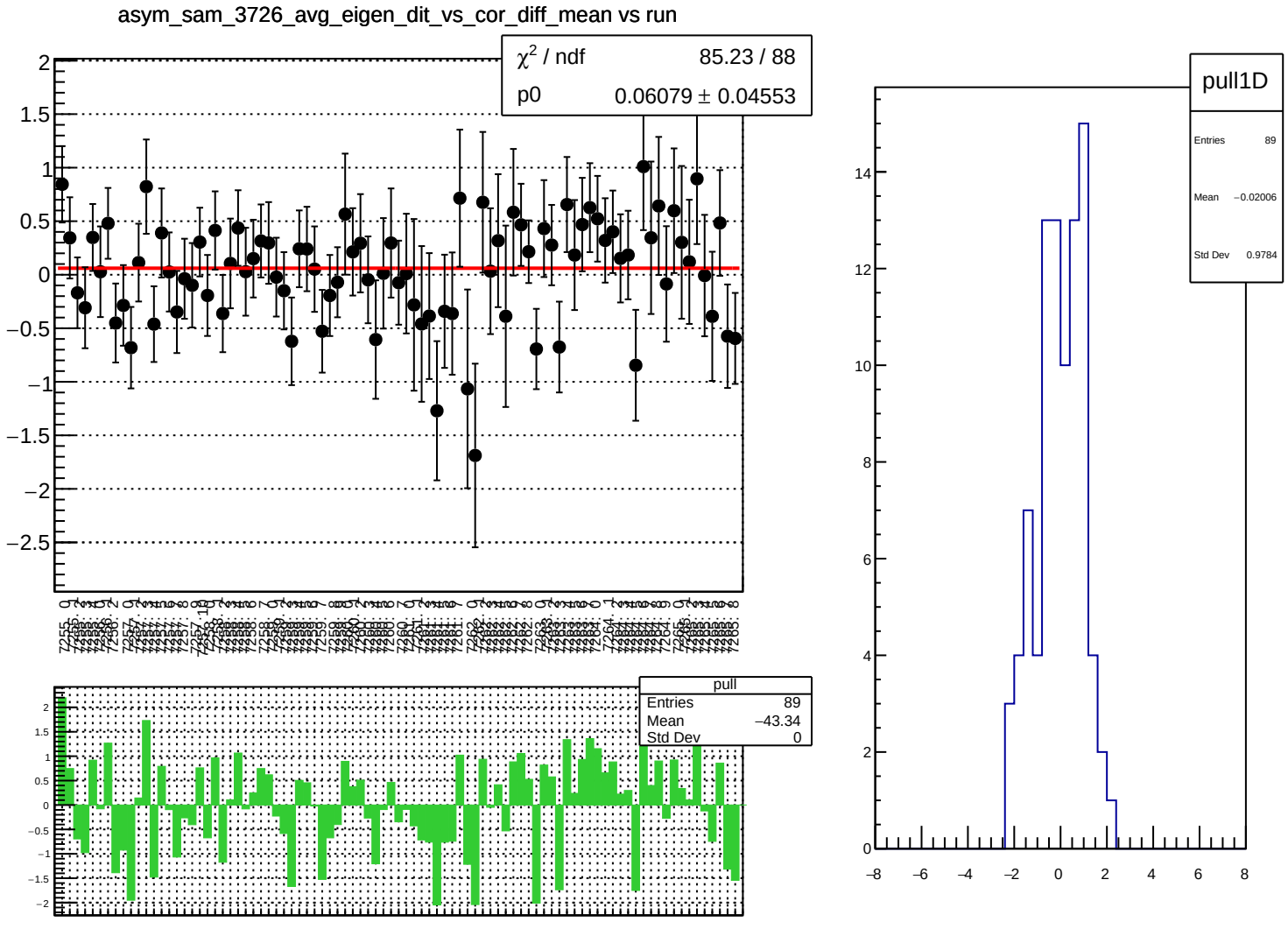

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.23 / 88
p0 0.0608 ± 0.04553
pull
Entries 89
Mean −43.33
Std Dev 0

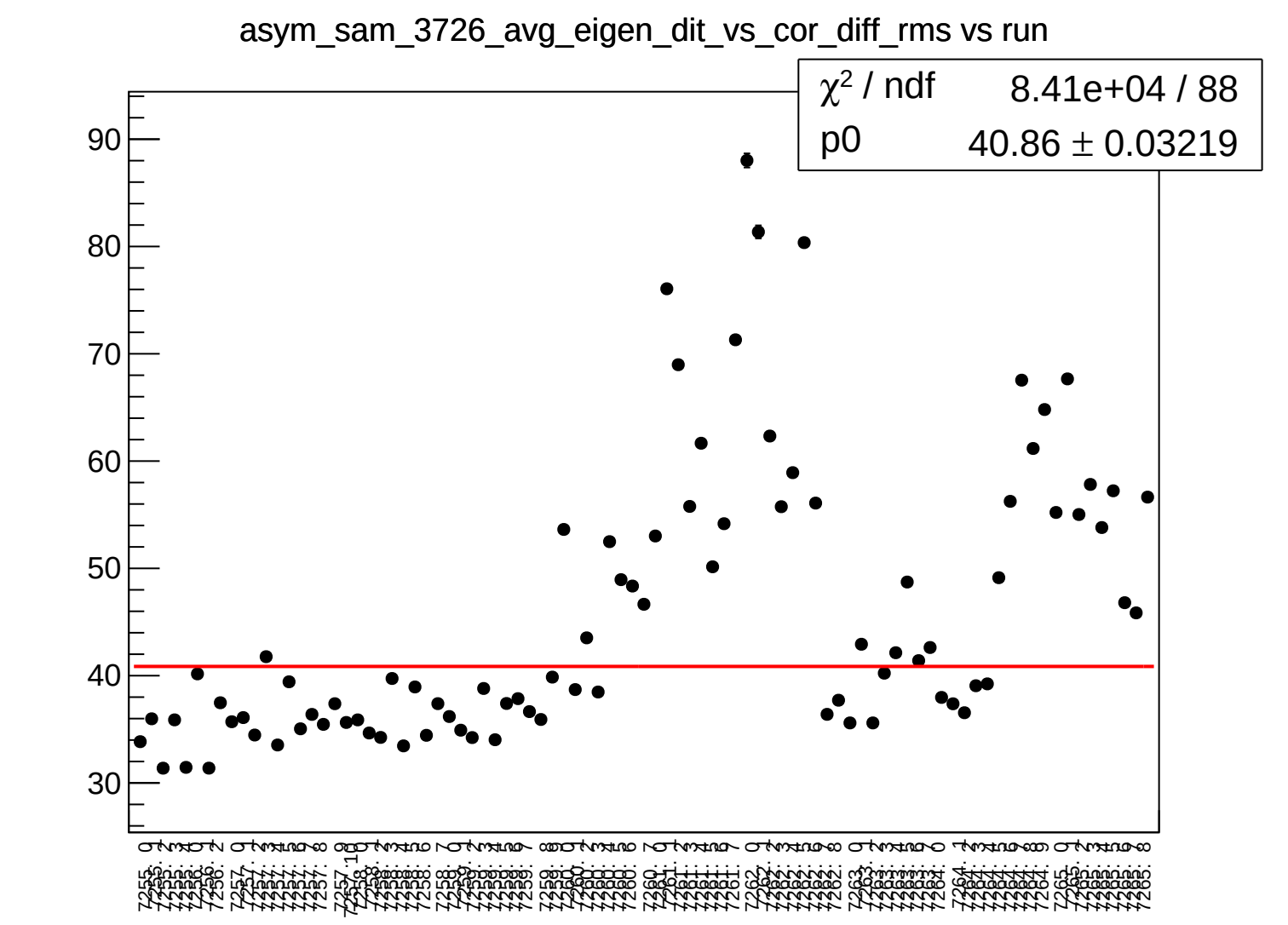

pull1D
Entries 89
Mean −0.02006
Std Dev 0.9784

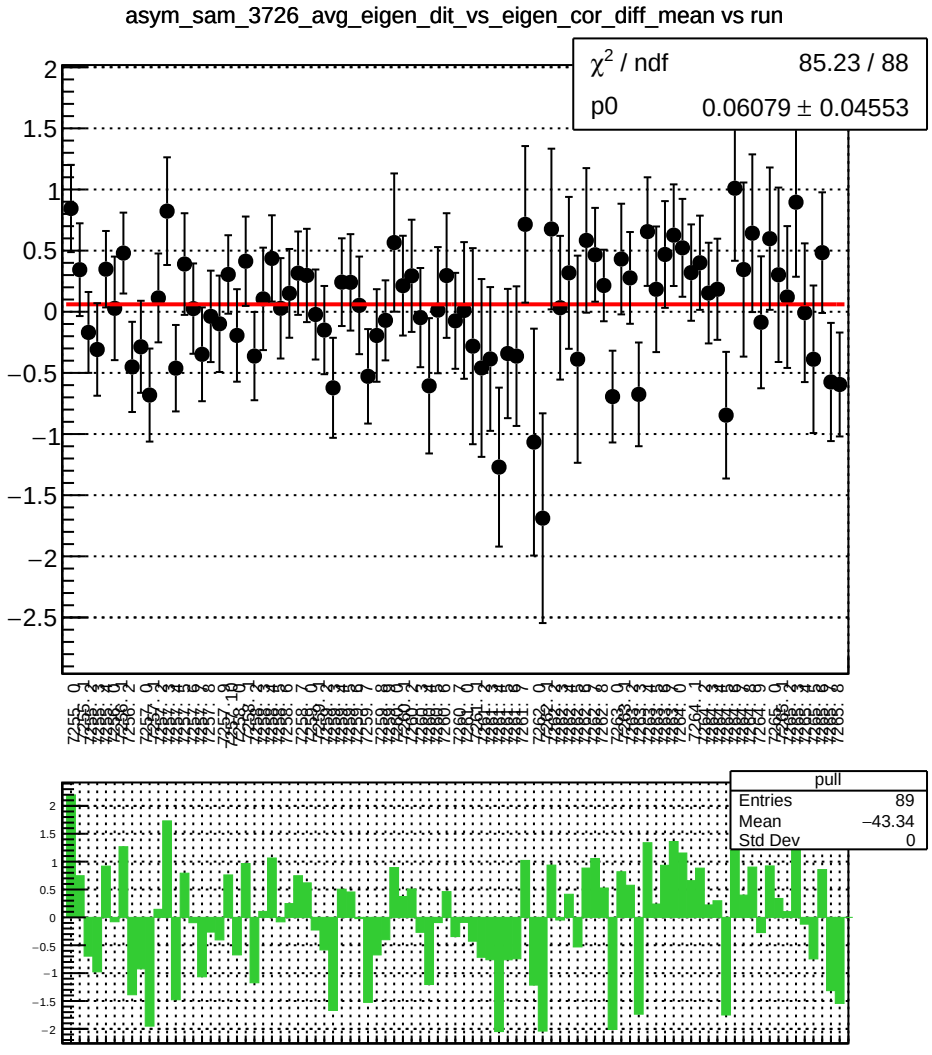

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.41e+04 / 88
p0 40.86 ± 0.03219
90
80
70
60
50
40
30

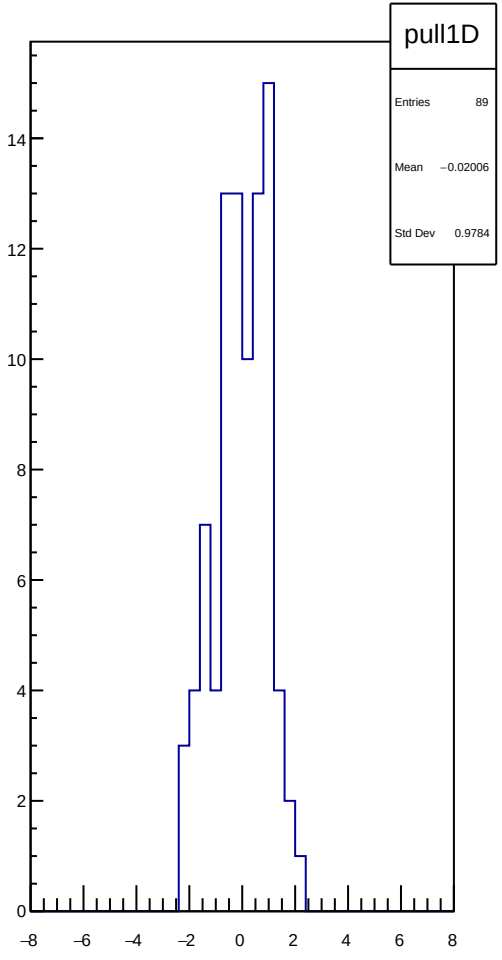

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.13 / 88
p0 −2.3e−06 ± 2.684e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 497.9
Std Dev 0
pull1D
Entries 89
Mean 0.009162
Std Dev 1.006

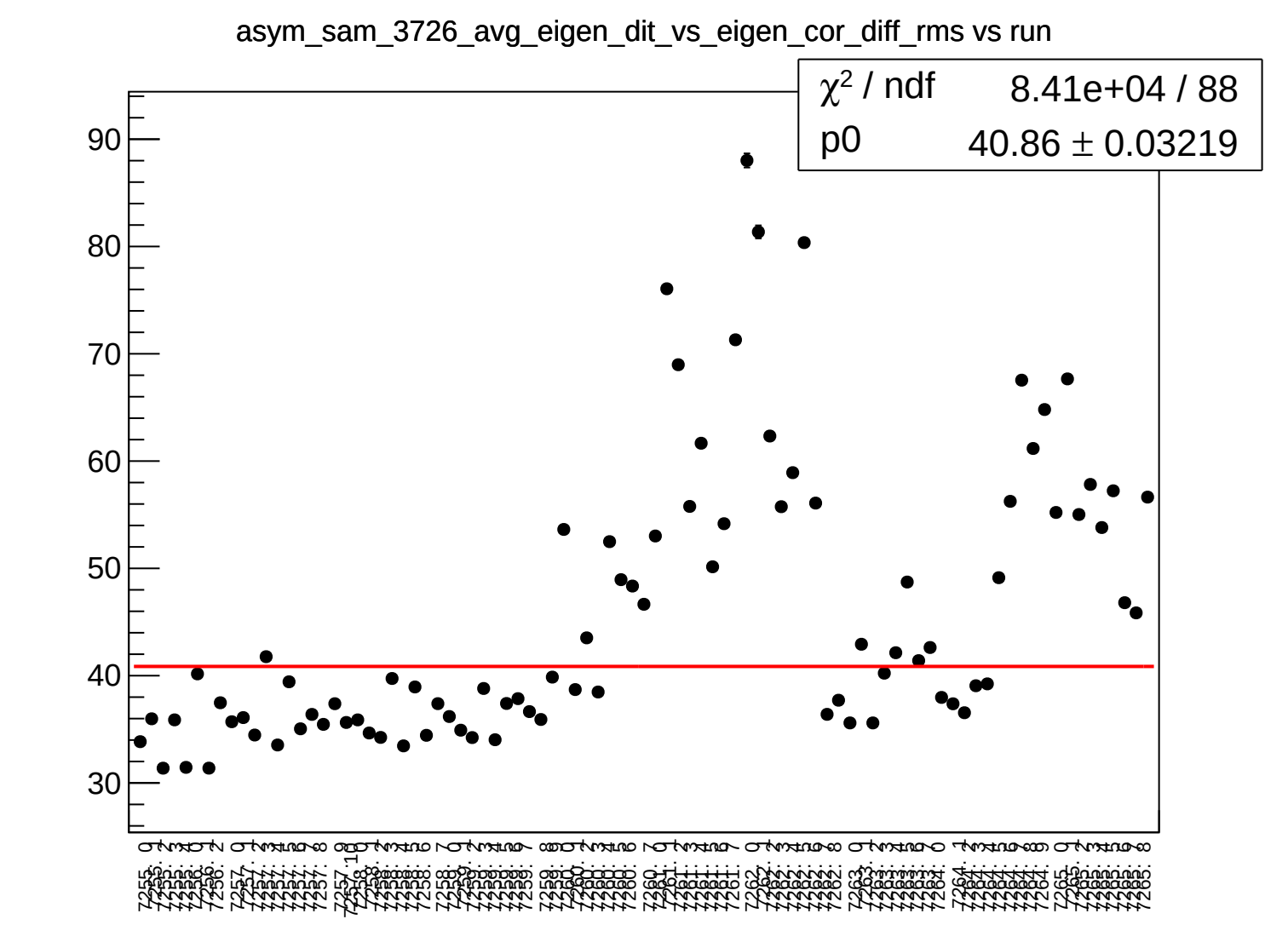

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7347 / 88
p0 0.002466 ± 1.898e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

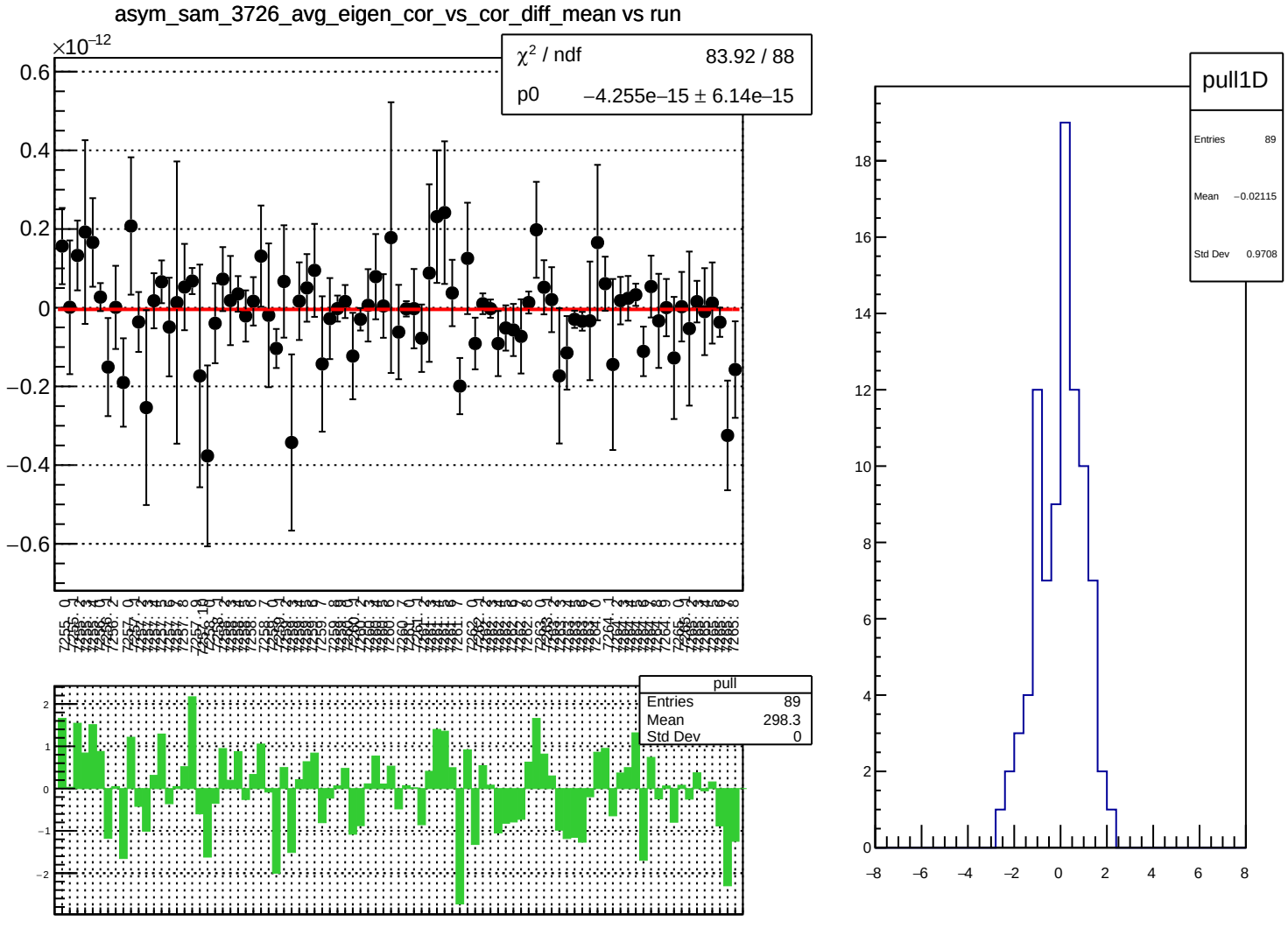

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.23 / 88
p0 0.06079 ± 0.04553
pull
Entries 89
Mean −43.34
Std Dev 0
pull1D
Entries 89
Mean −0.02006
Std Dev 0.9784

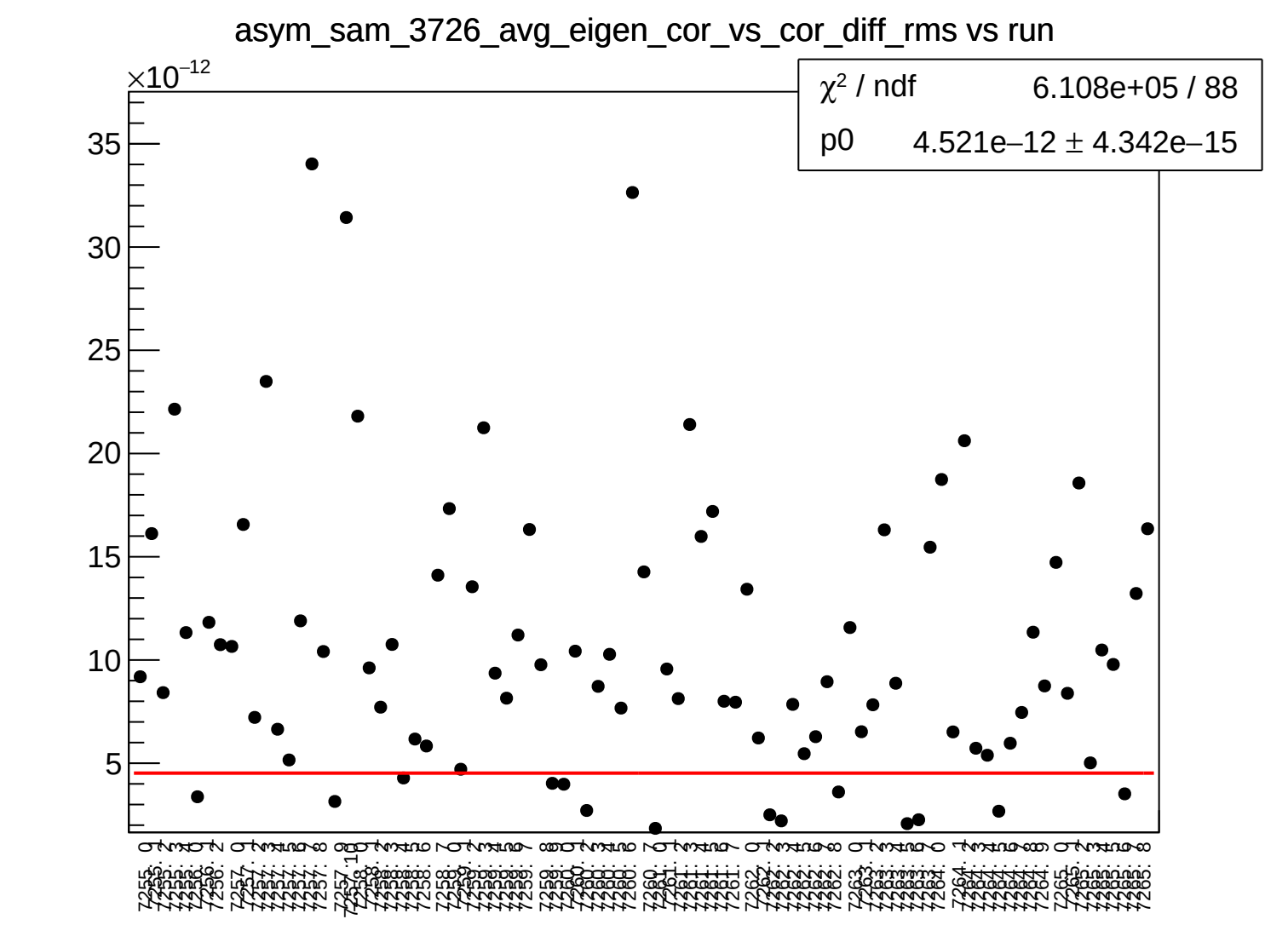

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.41e+04 / 88
p0 40.86 ± 0.03219
90
80
70
60
50
40
30

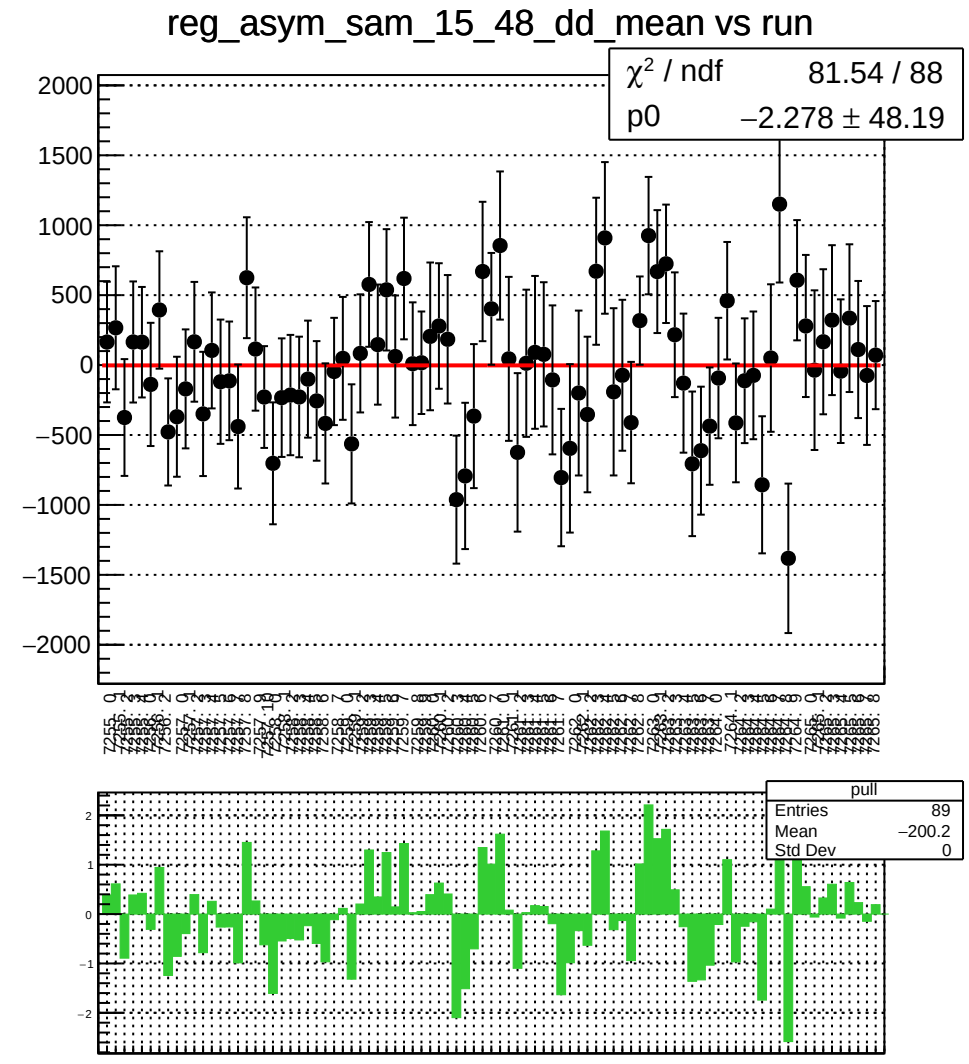

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.23 / 88
p0 0.06079 ± 0.04553
pull
Entries 89
Mean −43.34
Std Dev 0

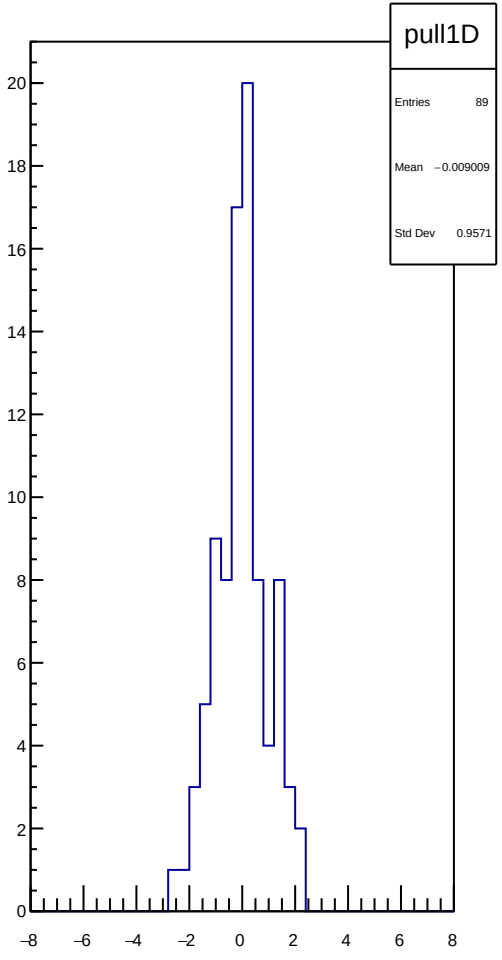

pull1D
Entries 89
Mean −0.02006
Std Dev 0.9784

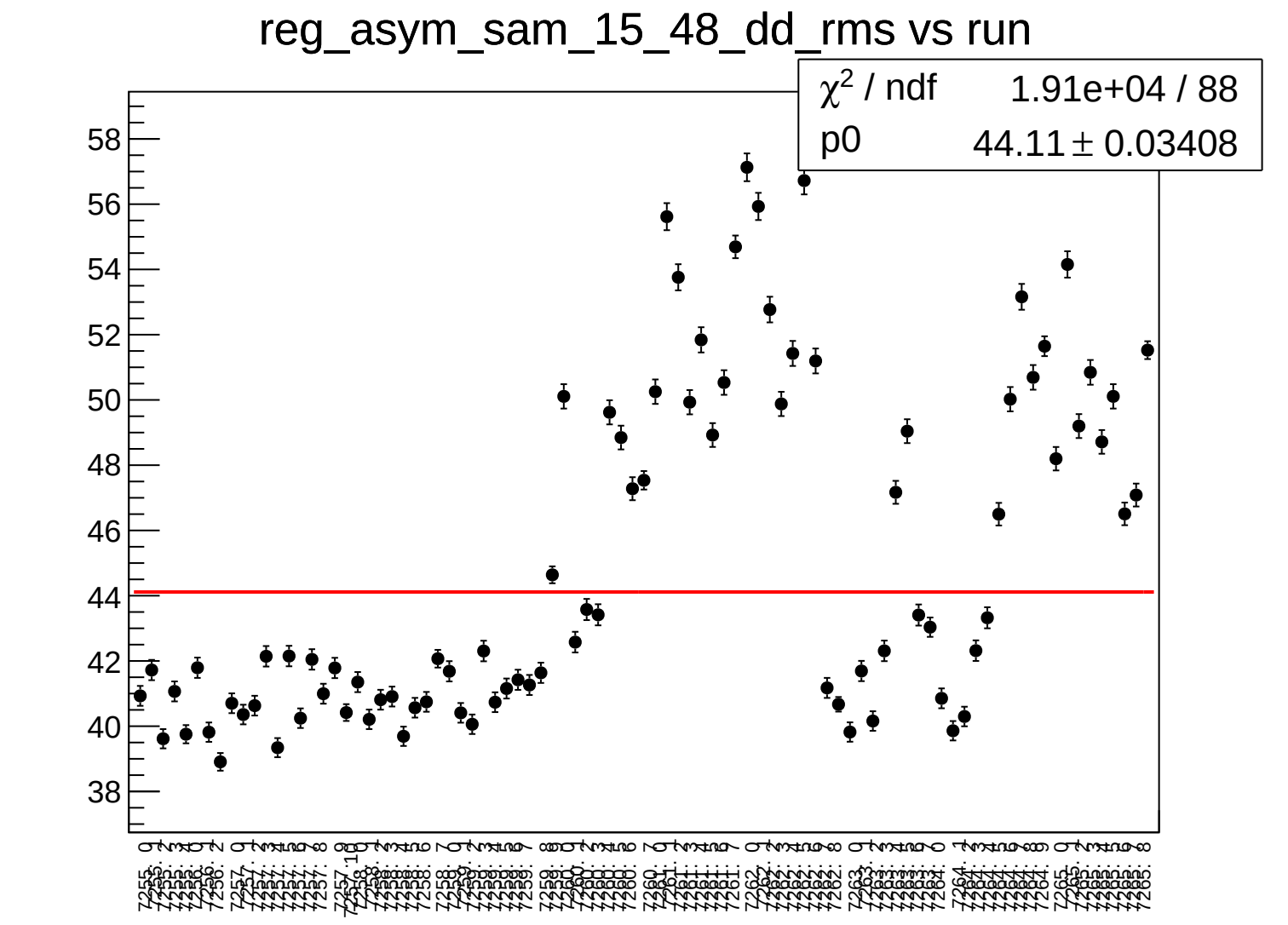

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.41e+04 / 88
p0 40.86 ± 0.03219
90
80
70
60
50
40
30

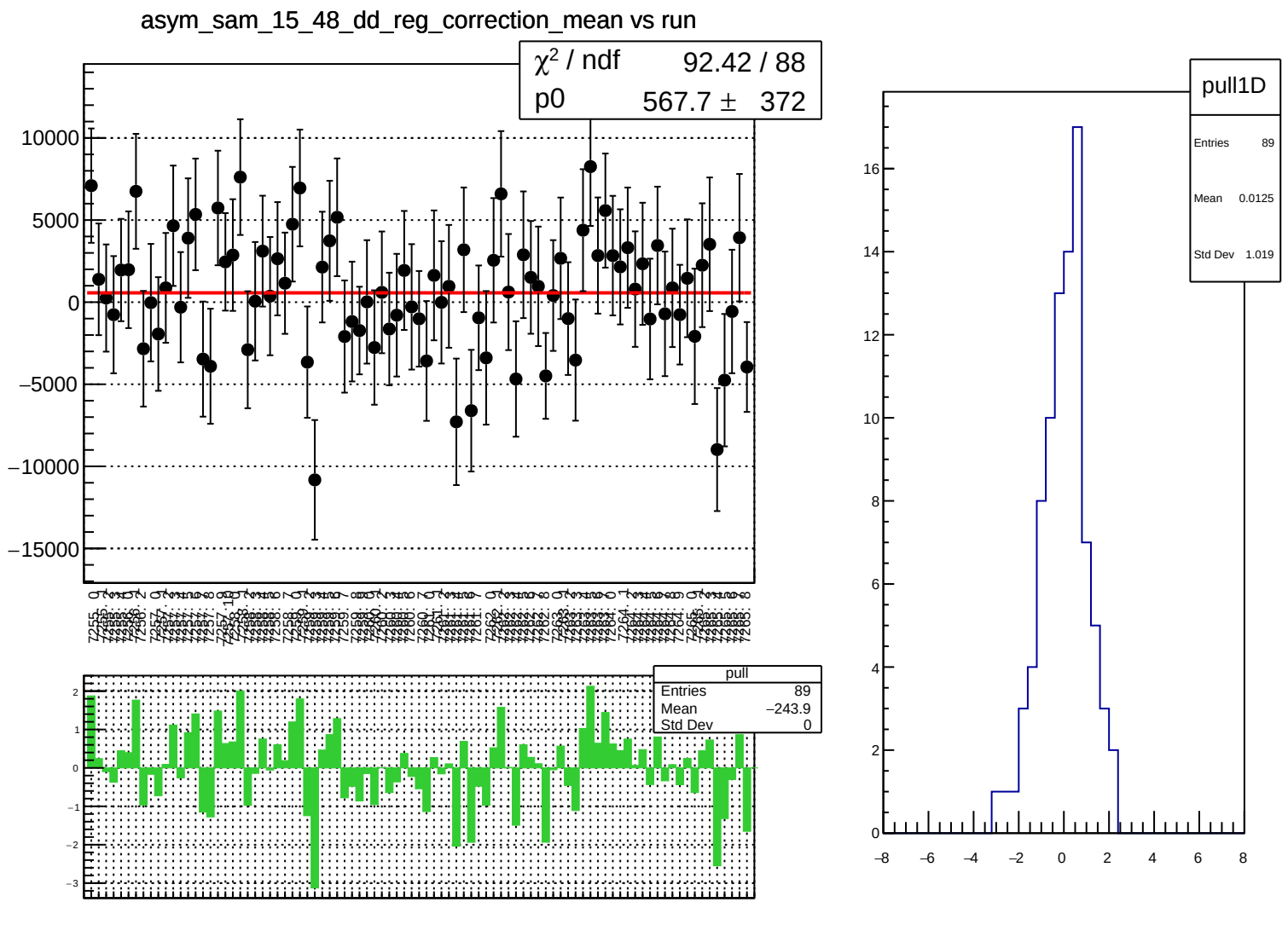

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 83.92 / 88
p0 −4.255e−15 ± 6.14e−15
pull
Entries 89
Mean 298.3
Std Dev 0
pull1D
Entries 89
Mean −0.02115
Std Dev 0.9708

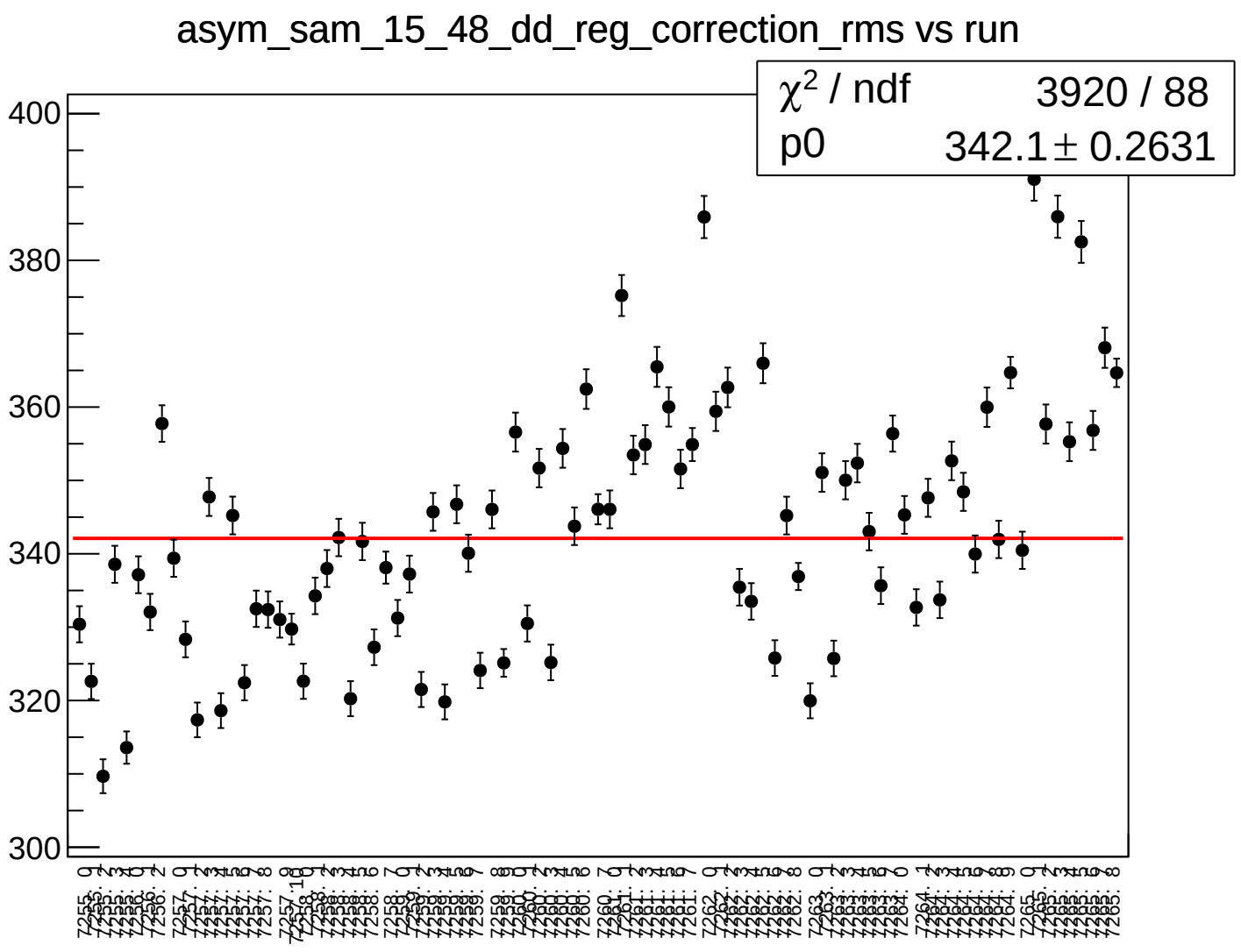

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.108e+05 / 88
p0 4.521e−12 ± 4.342e−15
35
30
25
20
15
10
5

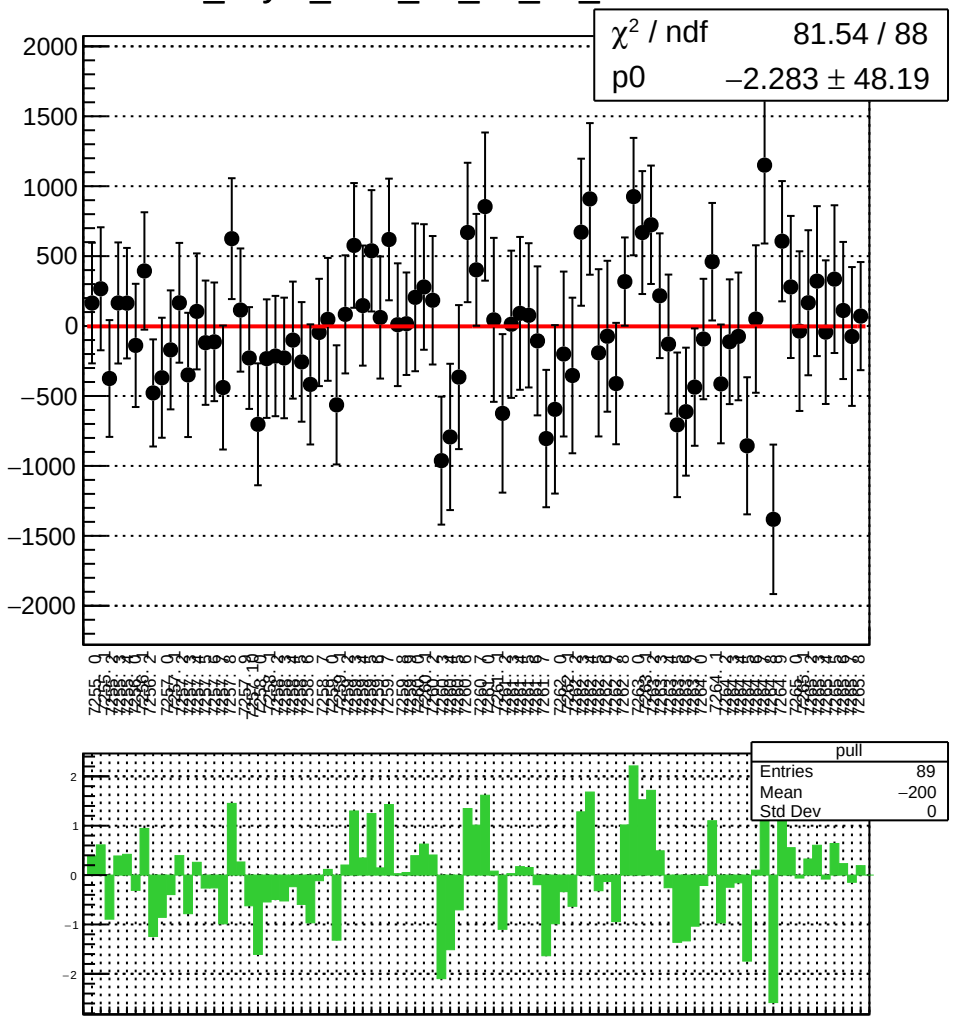

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 81.54 / 88
p0 −2.278 ± 48.19
pull
Entries 89
Mean −200.2
Std Dev 0

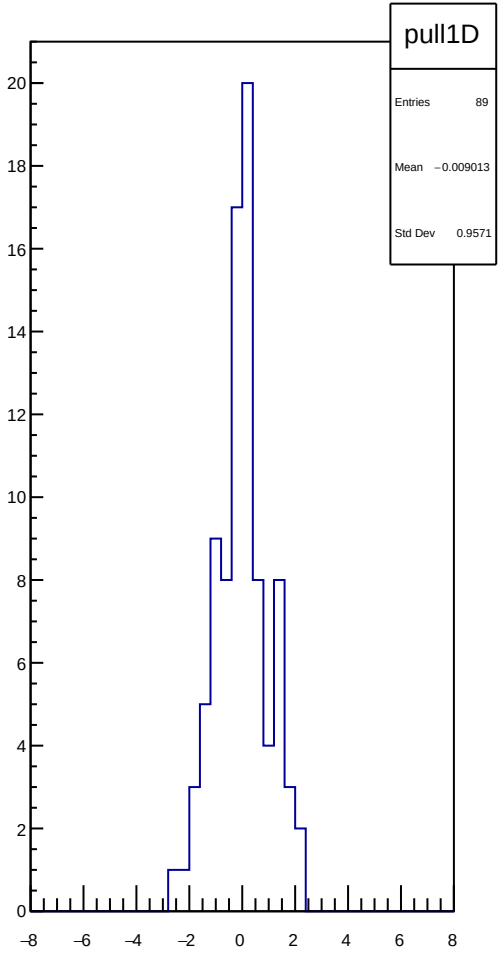

pull1D
Entries 89
Mean −0.009009
Std Dev 0.9571

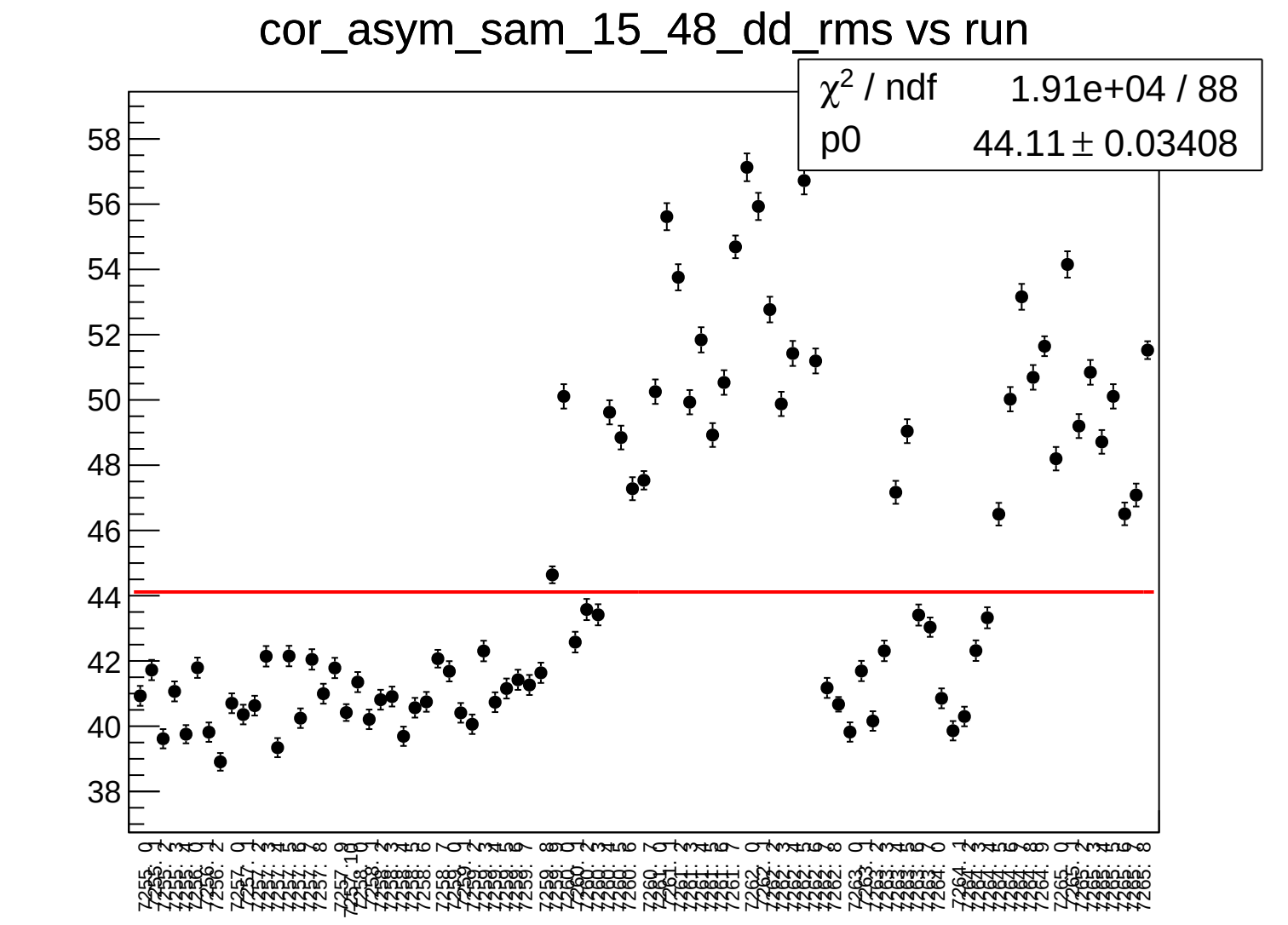

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.91e+04 / 88
p0 44.11 ± 0.03408
58
56
54
52
50
48
46
44
42
40
38

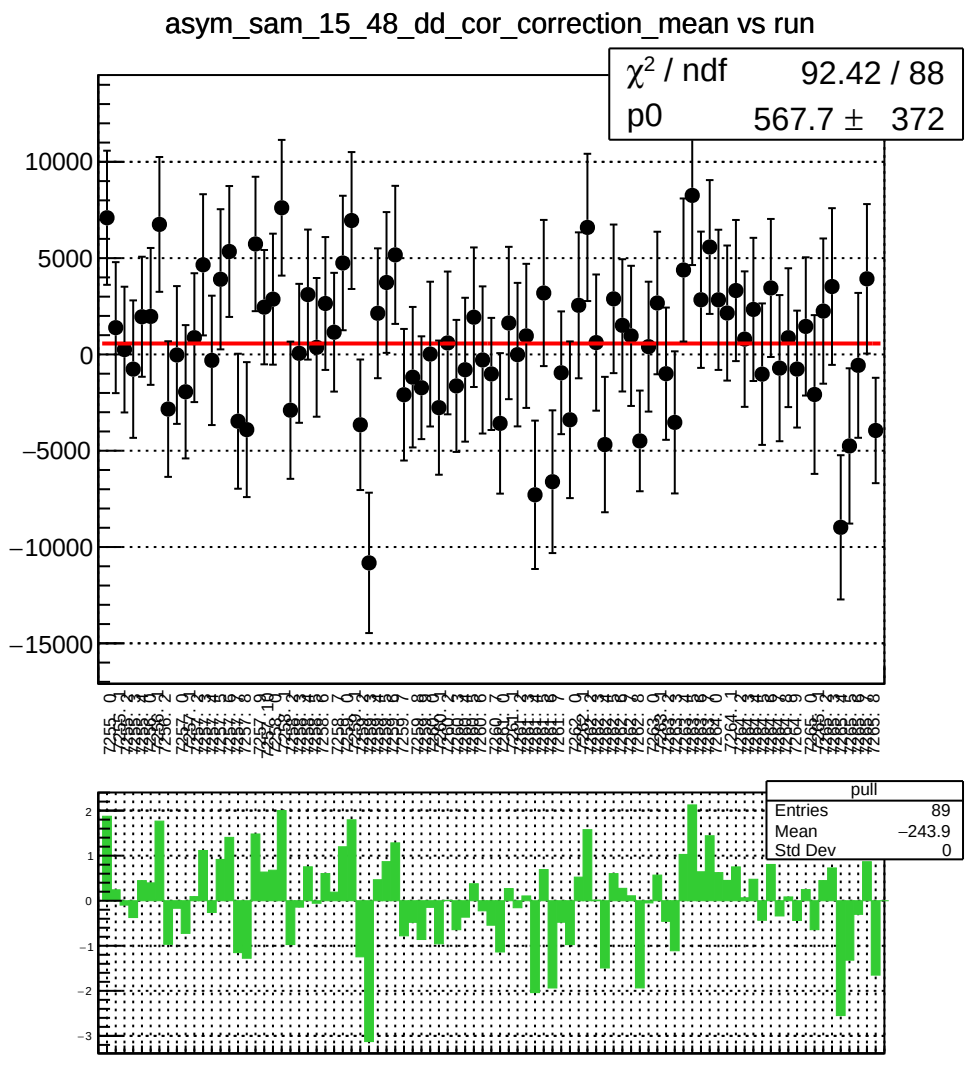

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 92.42 / 88
p0 567.7 ± 372
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −243.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.0125
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

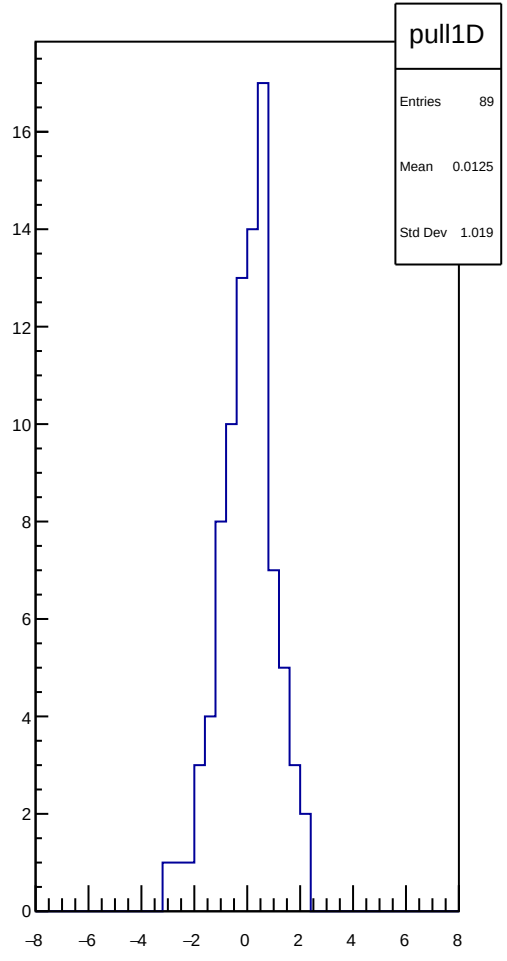

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 3920 / 88
p0 342.1 ± 0.2631
400
380
360
340
320
300

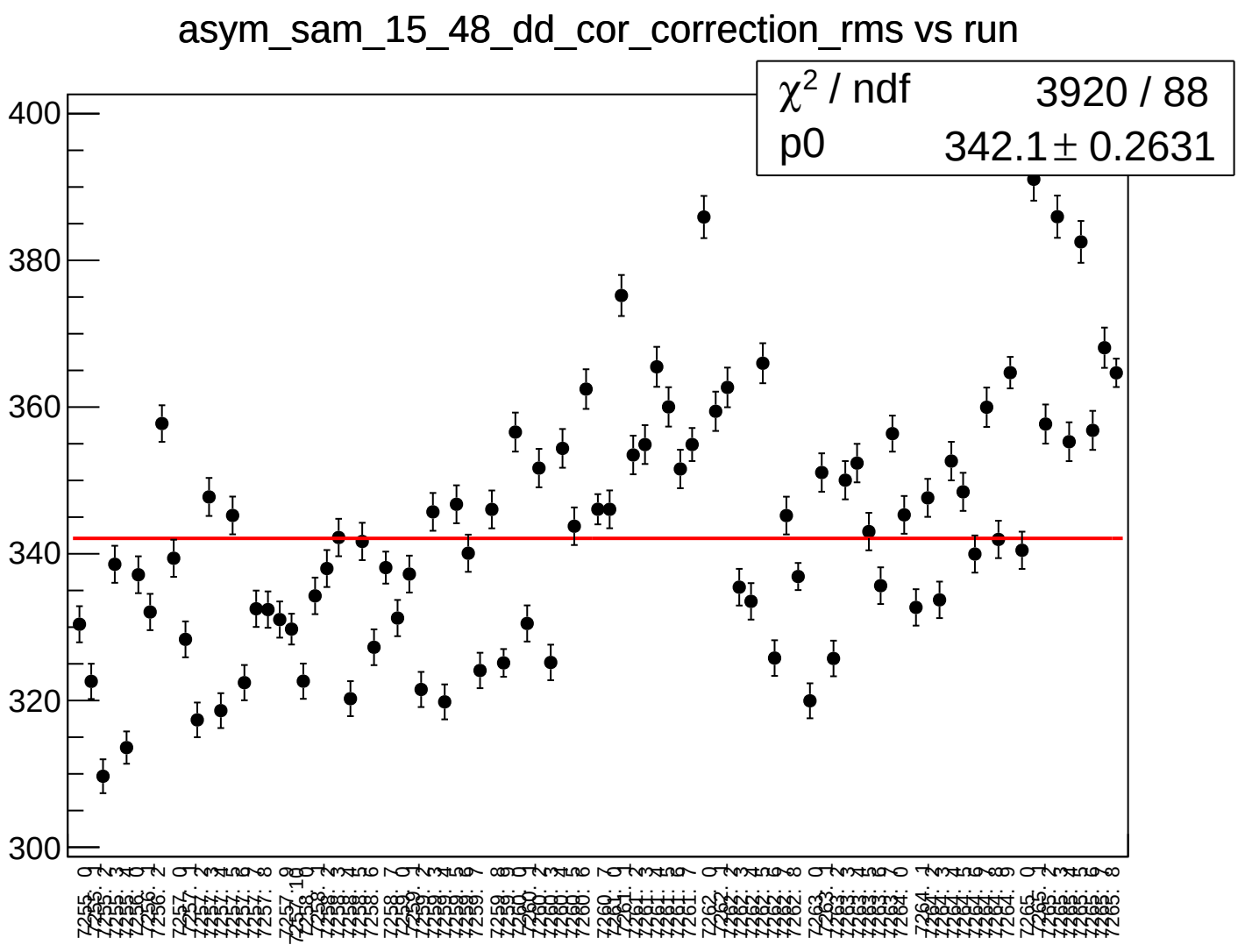

cor_asym_sam_15_48_dd_mean vs run
χ^2 / ndf 81.54 / 88
p0 −2.283 ± 48.19
pull
Entries 89
Mean −200
Std Dev 0

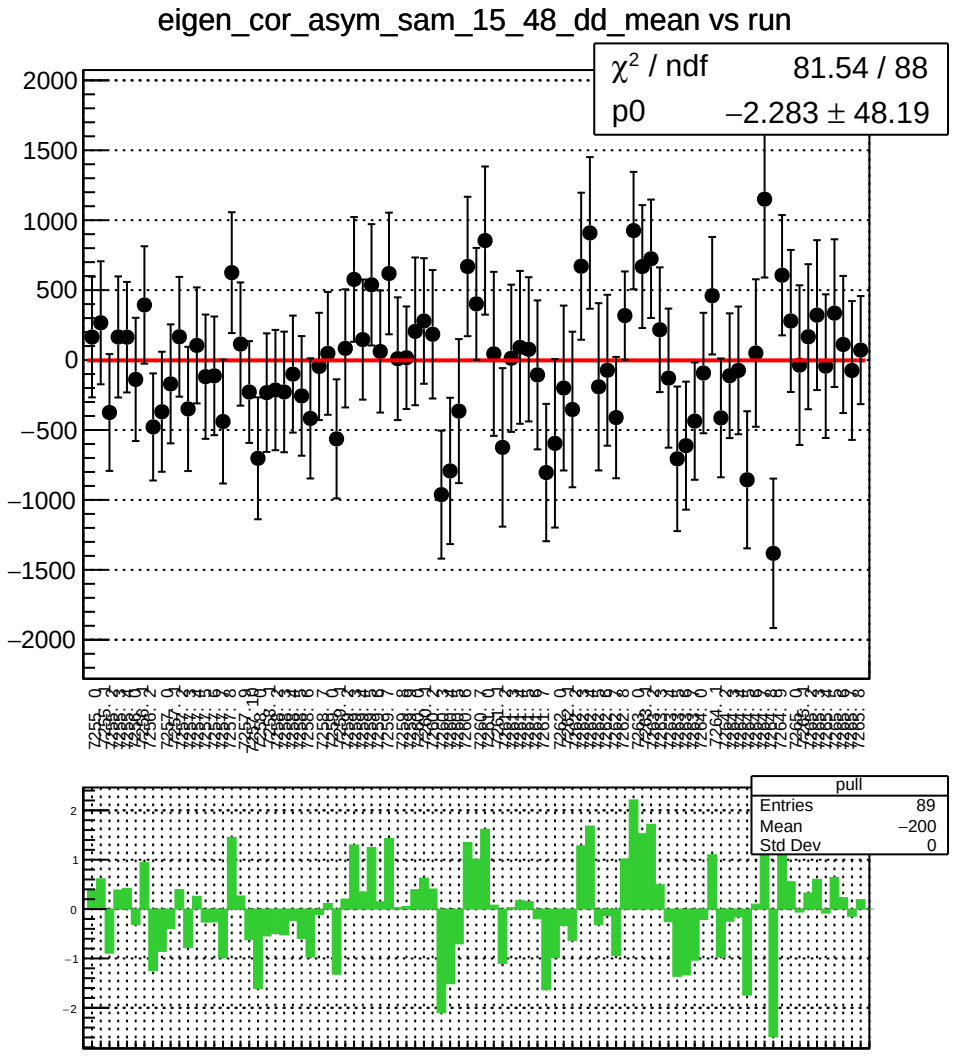

pull1D
Entries 89
Mean −0.009013
Std Dev 0.9571

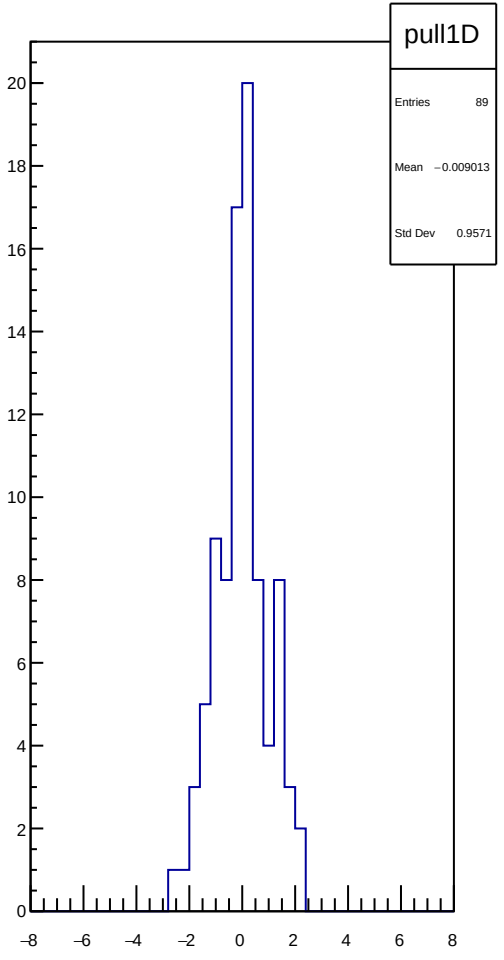

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.91e+04 / 88
p0 44.11 ± 0.03408
58
56
54
52
50
48
46
44
42
40
38

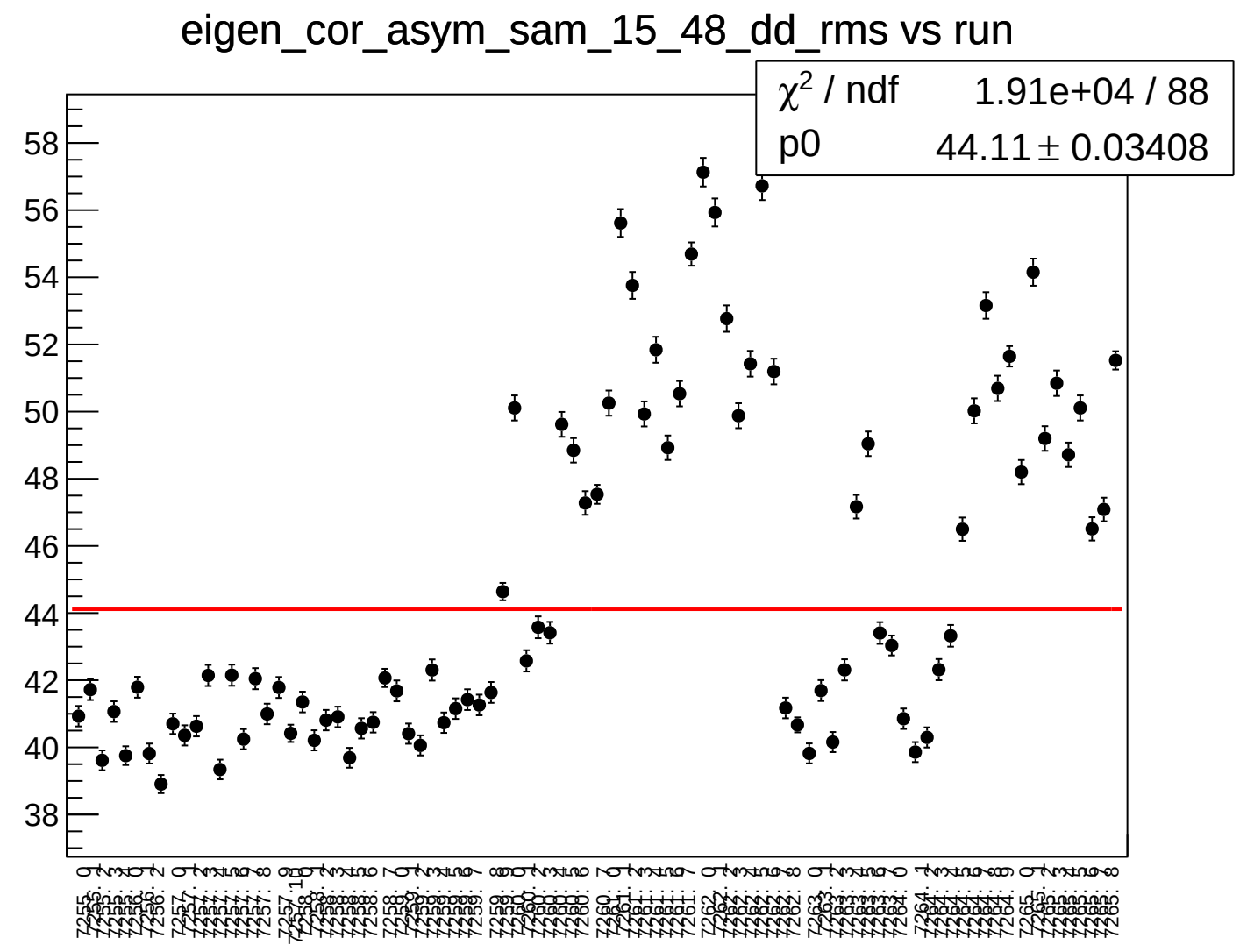

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 92.42 / 88
p0 567.7 ± 372
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −243.9
Std Dev 0
2
1
0
−1
−2
−3

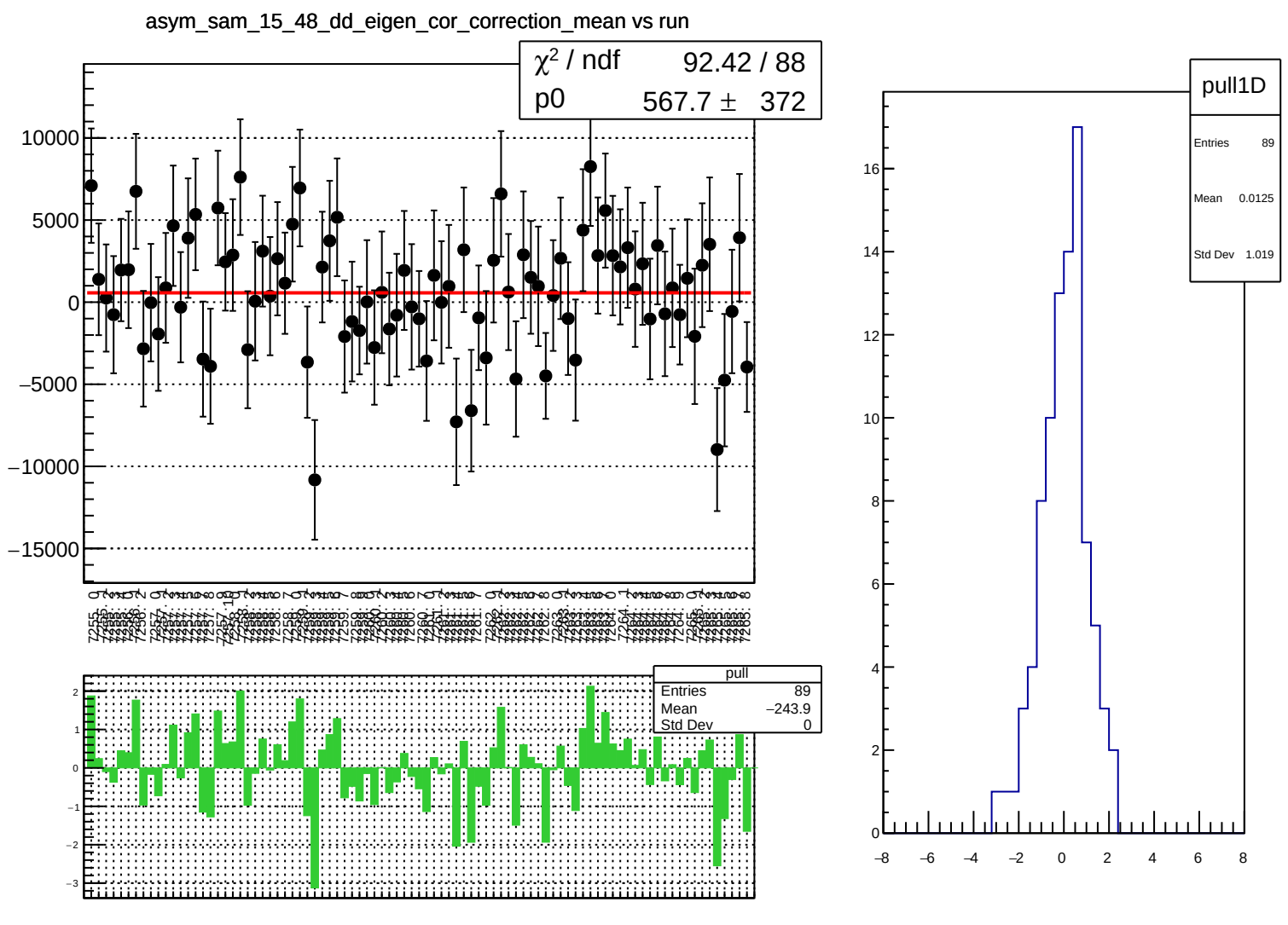

pull1D
Entries 89
Mean 0.0125
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

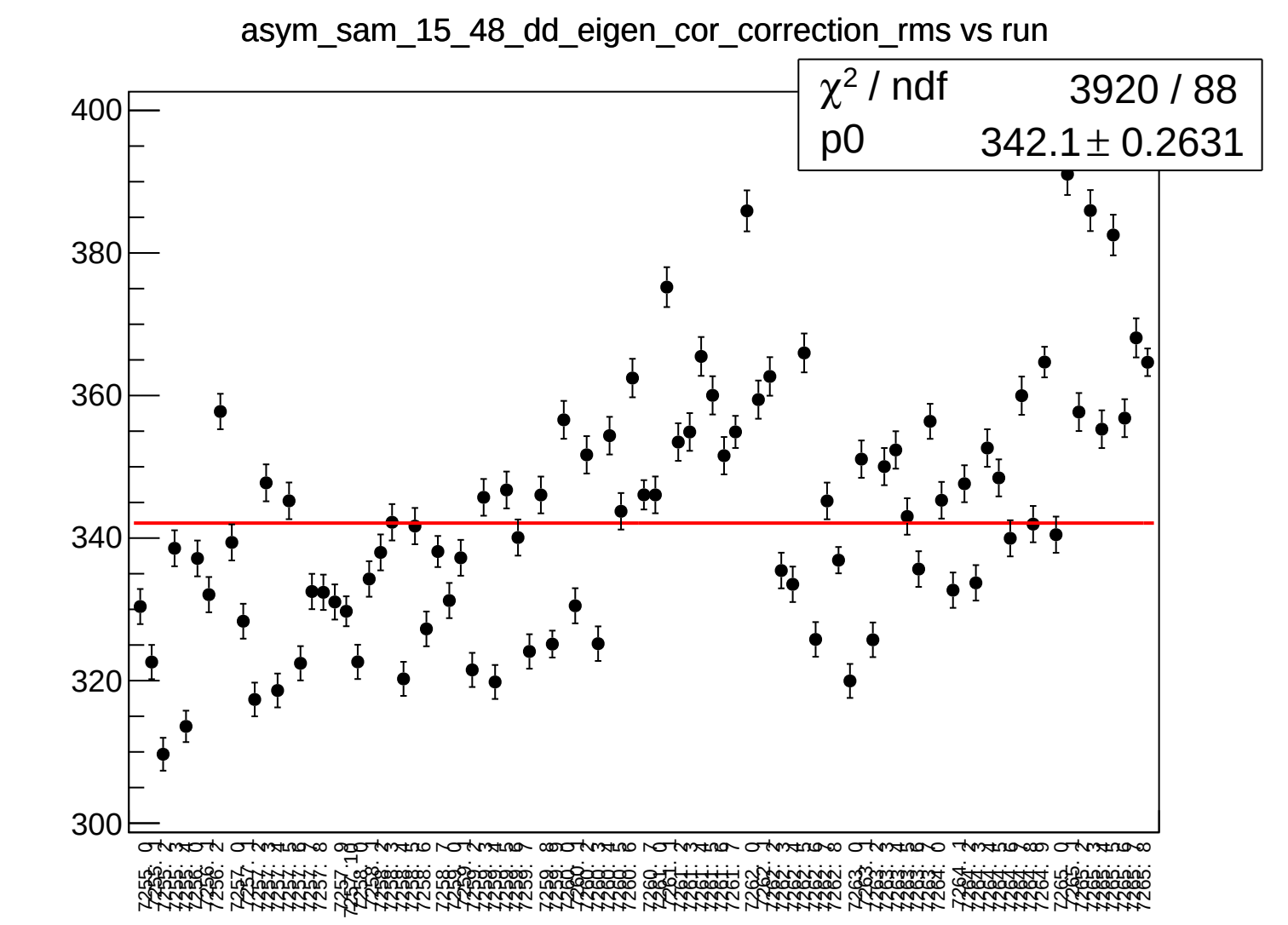

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 3920 / 88
p0 342.1 ± 0.2631
400
380
360
340
320
300

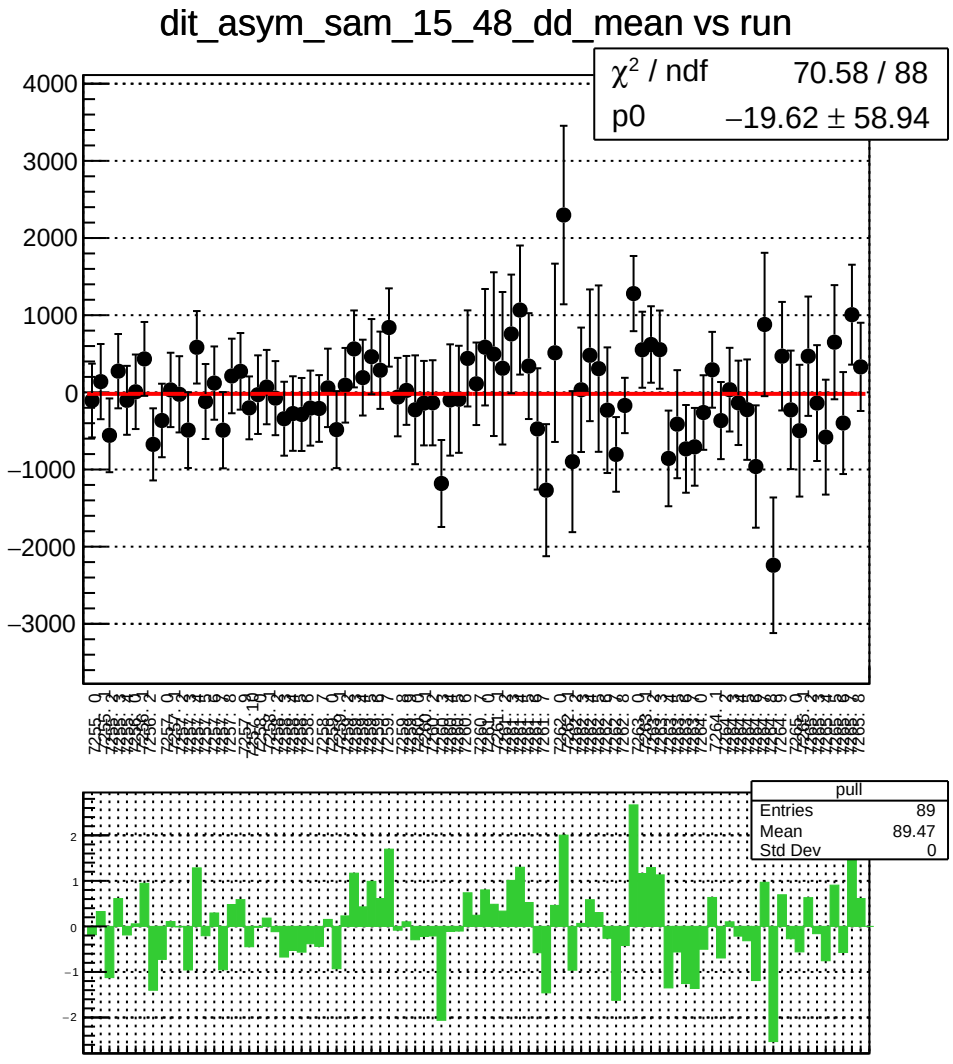

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 81.54 / 88
p0 −2.283 ± 48.19
pull
Entries 89
Mean −200
Std Dev 0

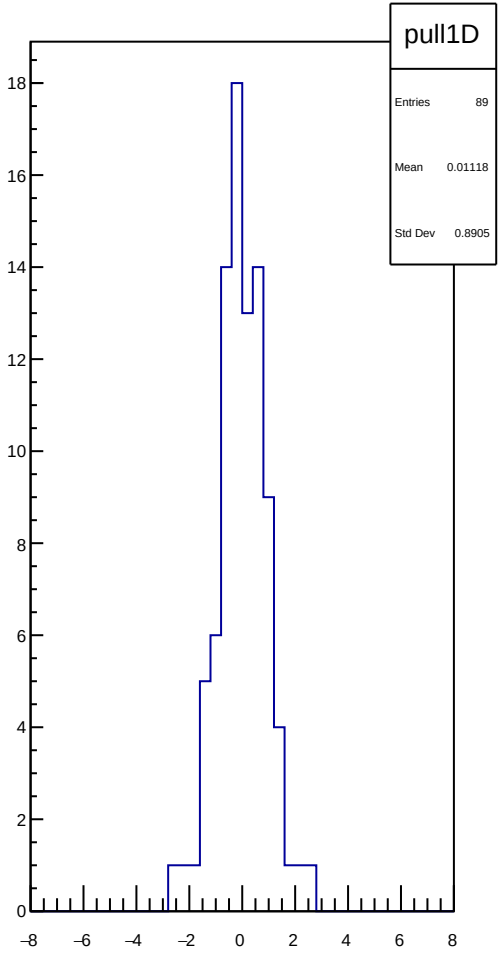

pull1D
Entries 89
Mean −0.009013
Std Dev 0.9571

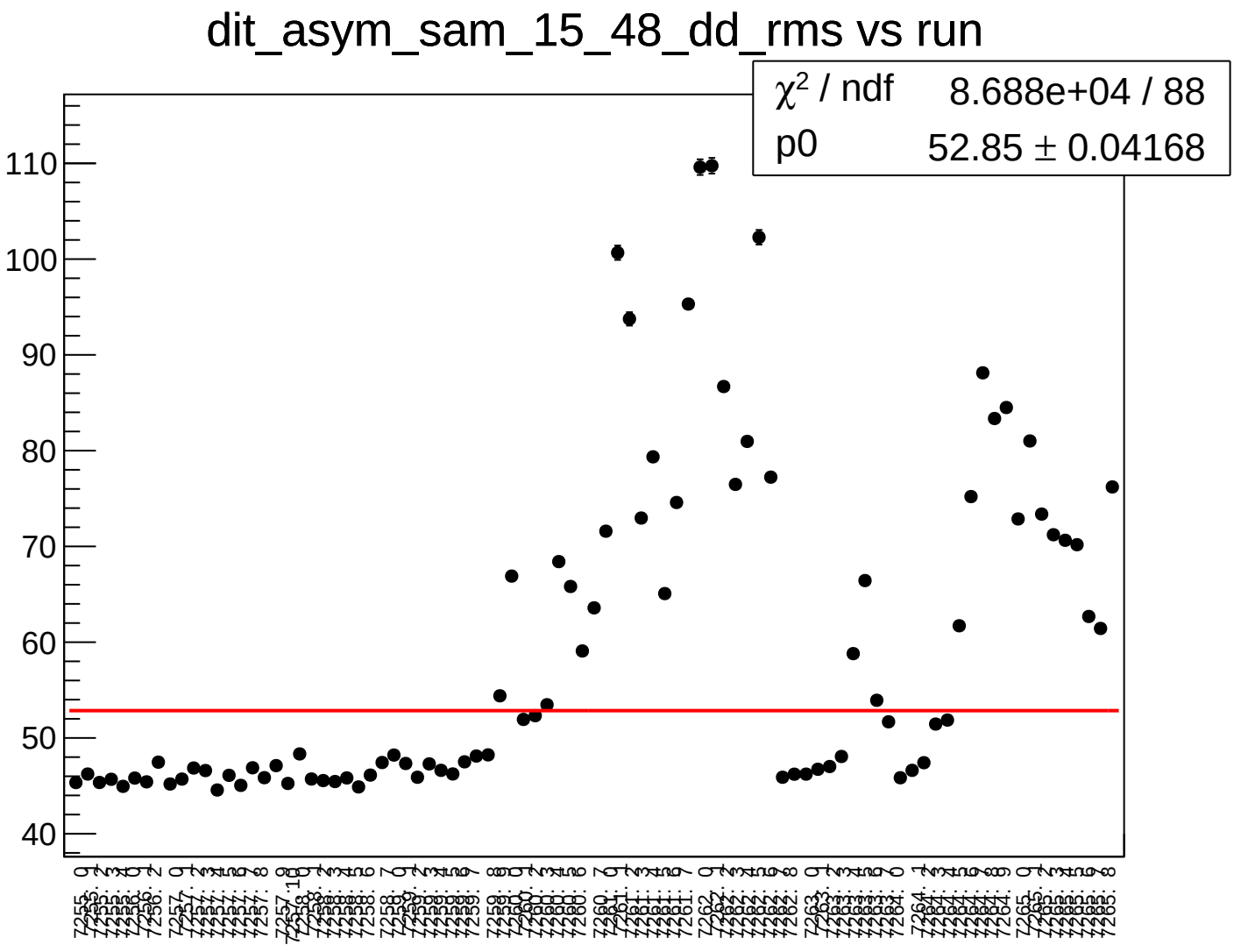

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.91e+04 / 88
p0 44.11 ± 0.03408
58
56
54
52
50
48
46
44
42
40
38

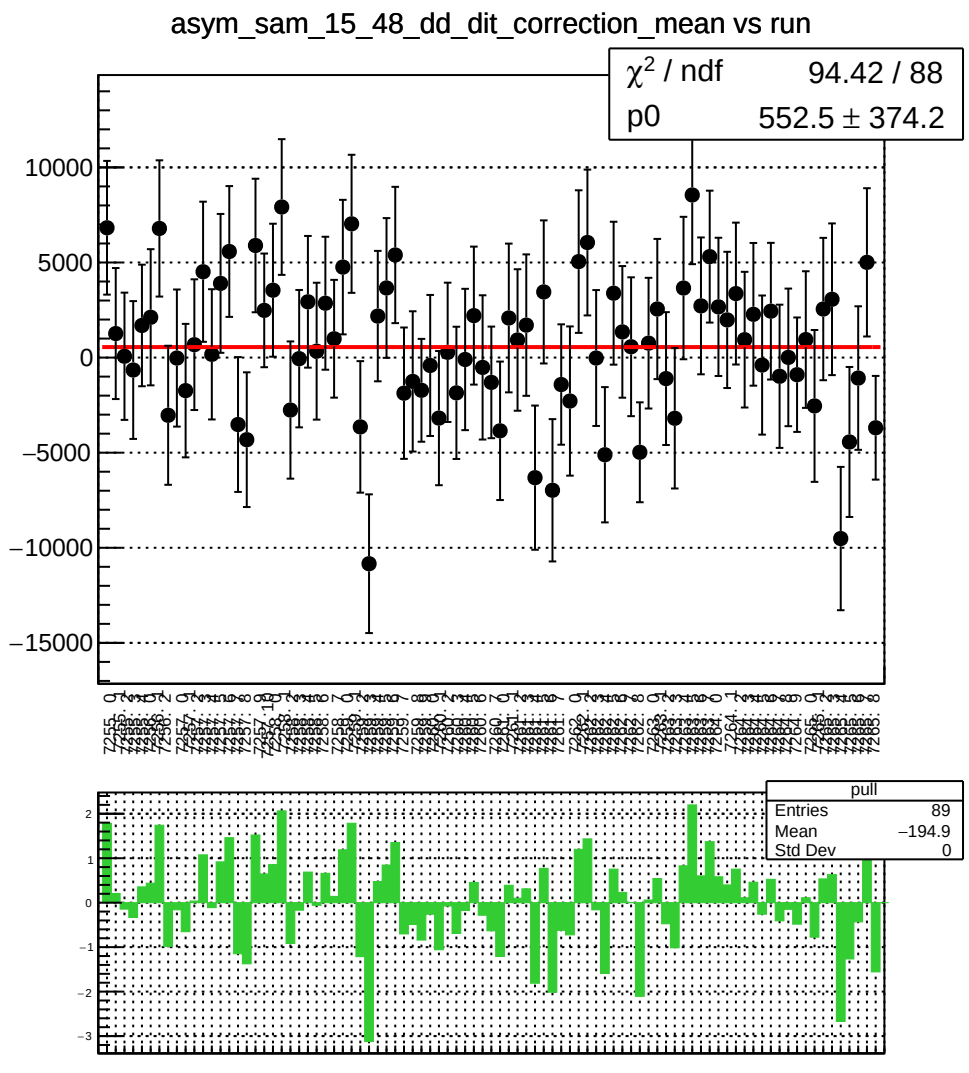

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.42 / 88
p0 567.7 ± 372
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −243.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.0125
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

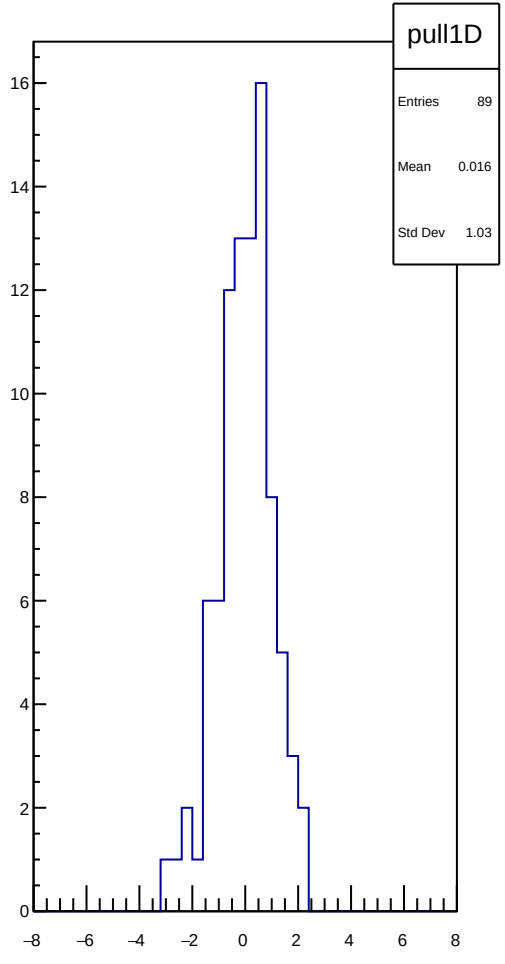

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3920 / 88
p0 342.1 ± 0.2631
400
380
360
340
320
300

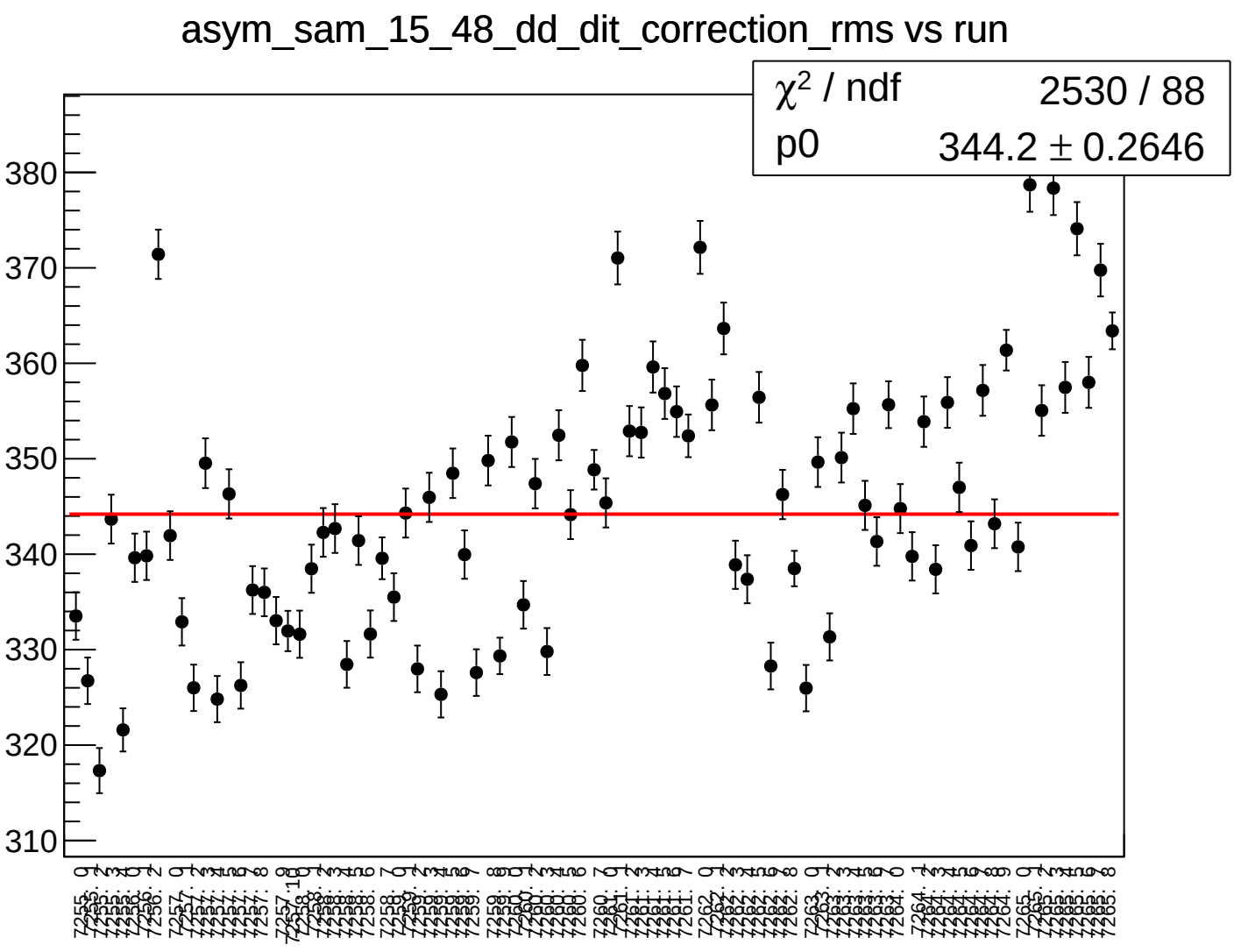

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 70.58 / 88
p0 −19.62 ± 58.94
pull
Entries 89
Mean 89.47
Std Dev 0

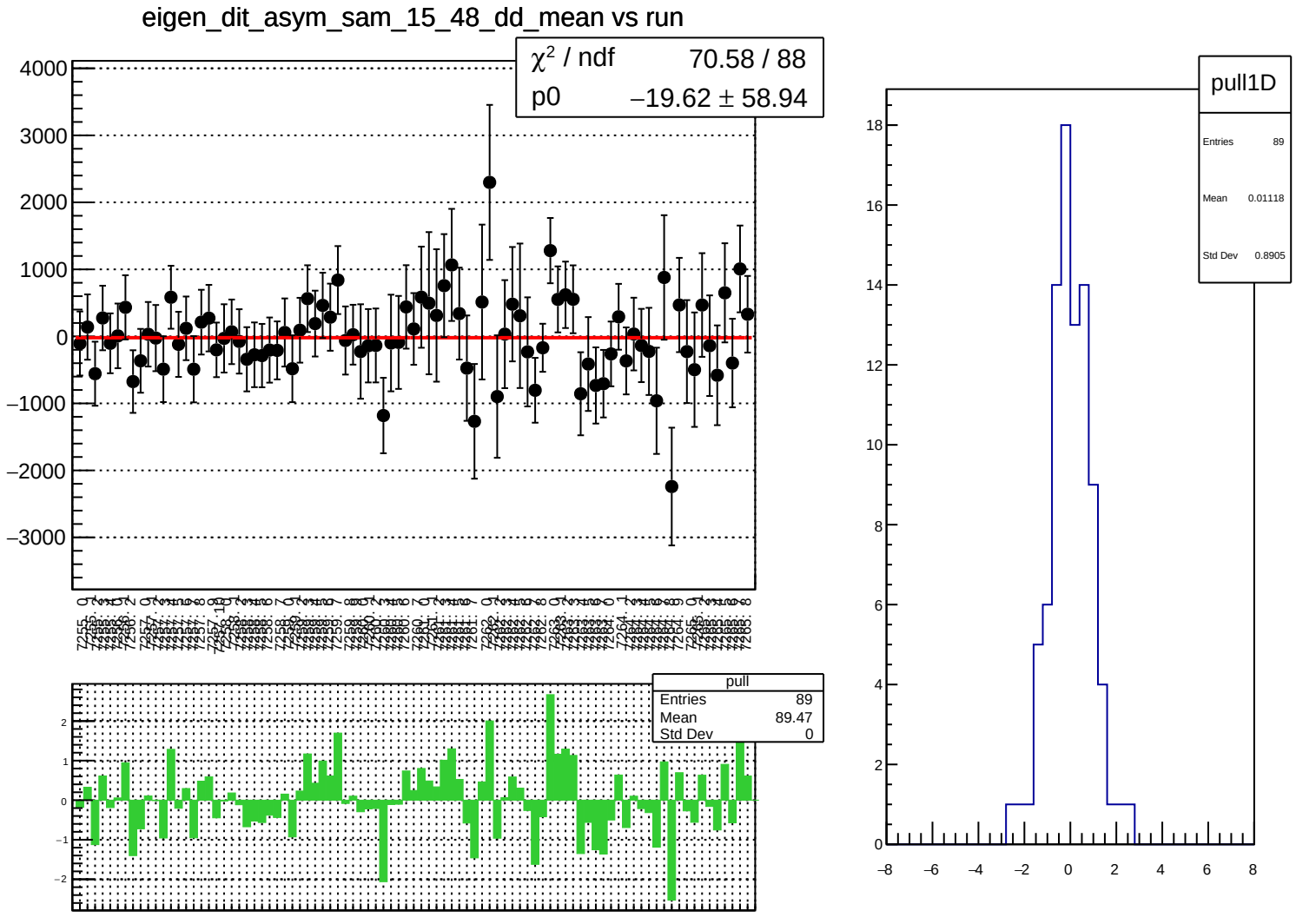

pull1D
Entries 89
Mean 0.01118
Std Dev 0.8905

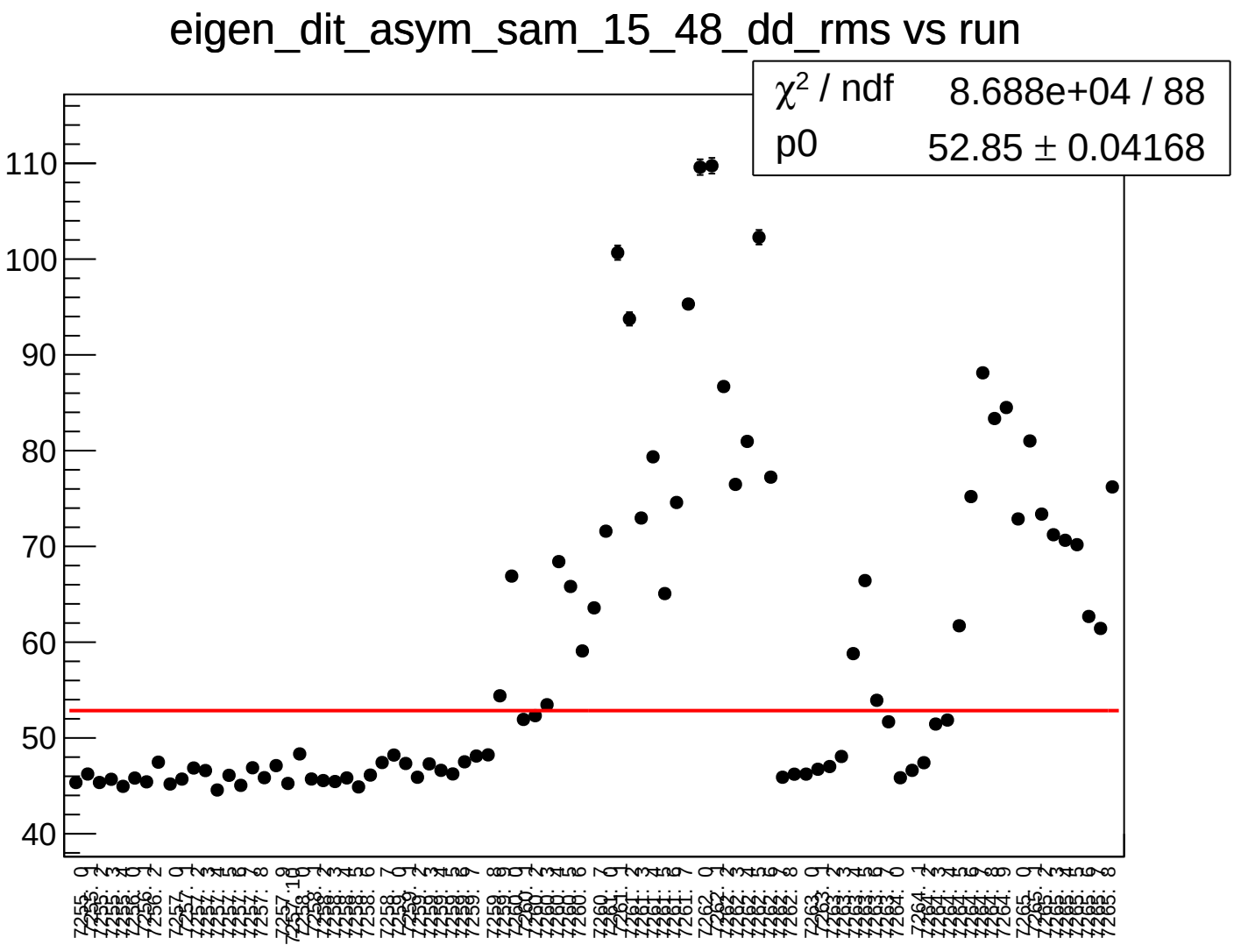

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 8.688e+04 / 88
p0 52.85 ± 0.04168
110
100
90
80
70
60
50
40

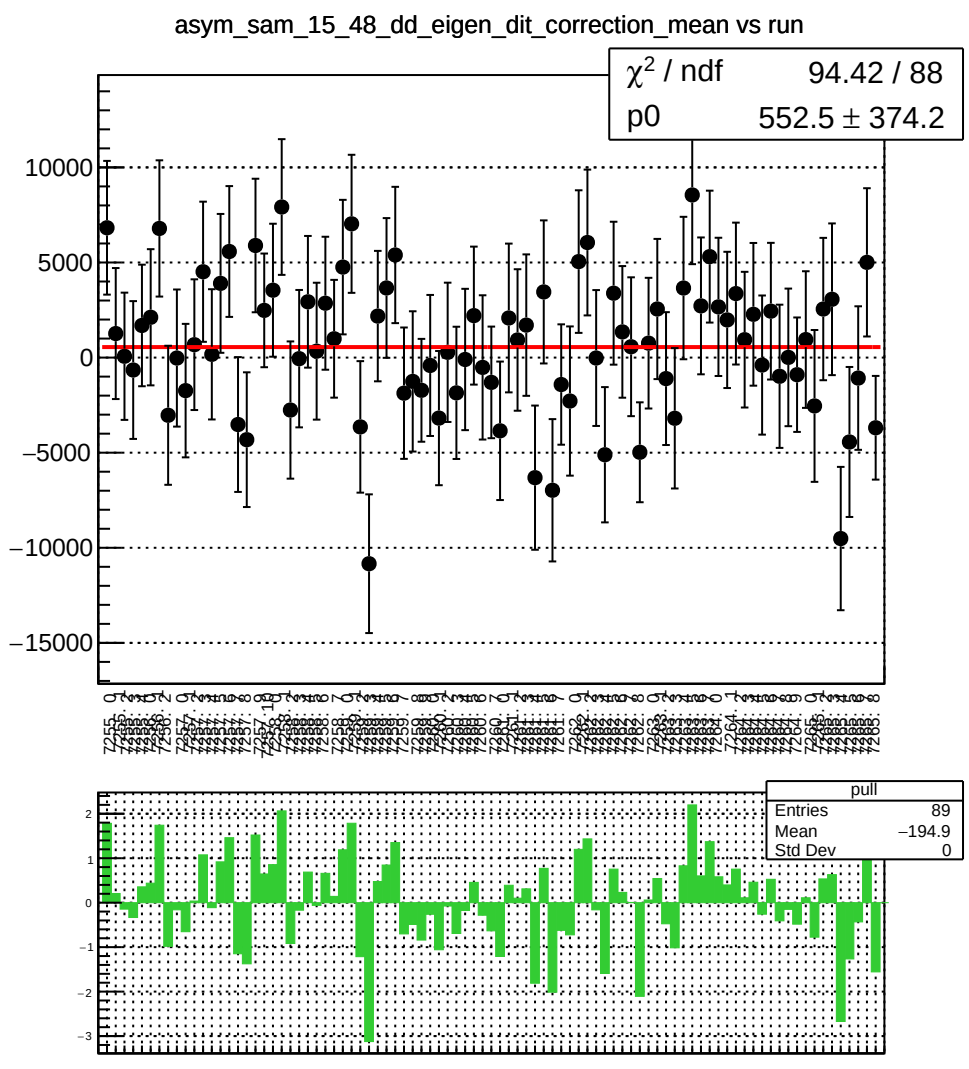

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 94.42 / 88
p0 552.5 ± 374.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −194.9
Std Dev 0
2
1
0
−1
−2
−3

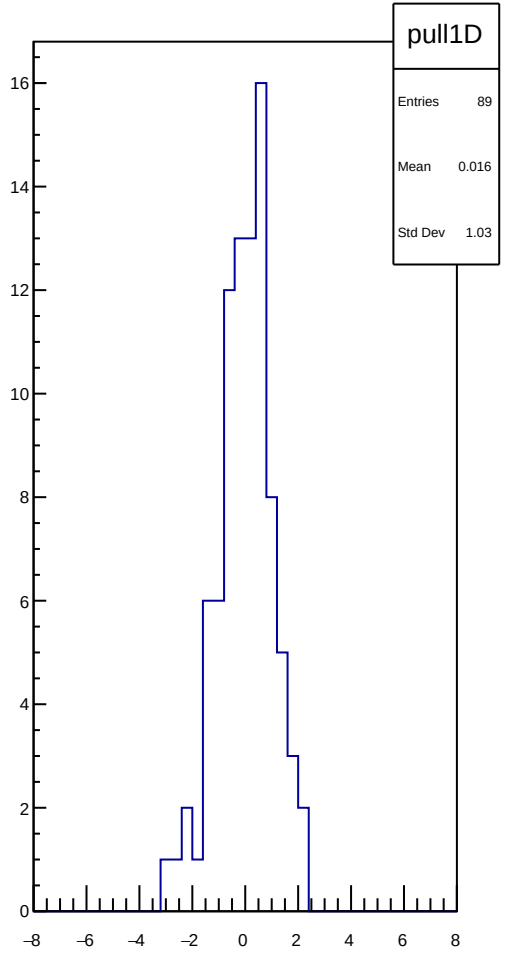

pull1D
Entries 89
Mean 0.016
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

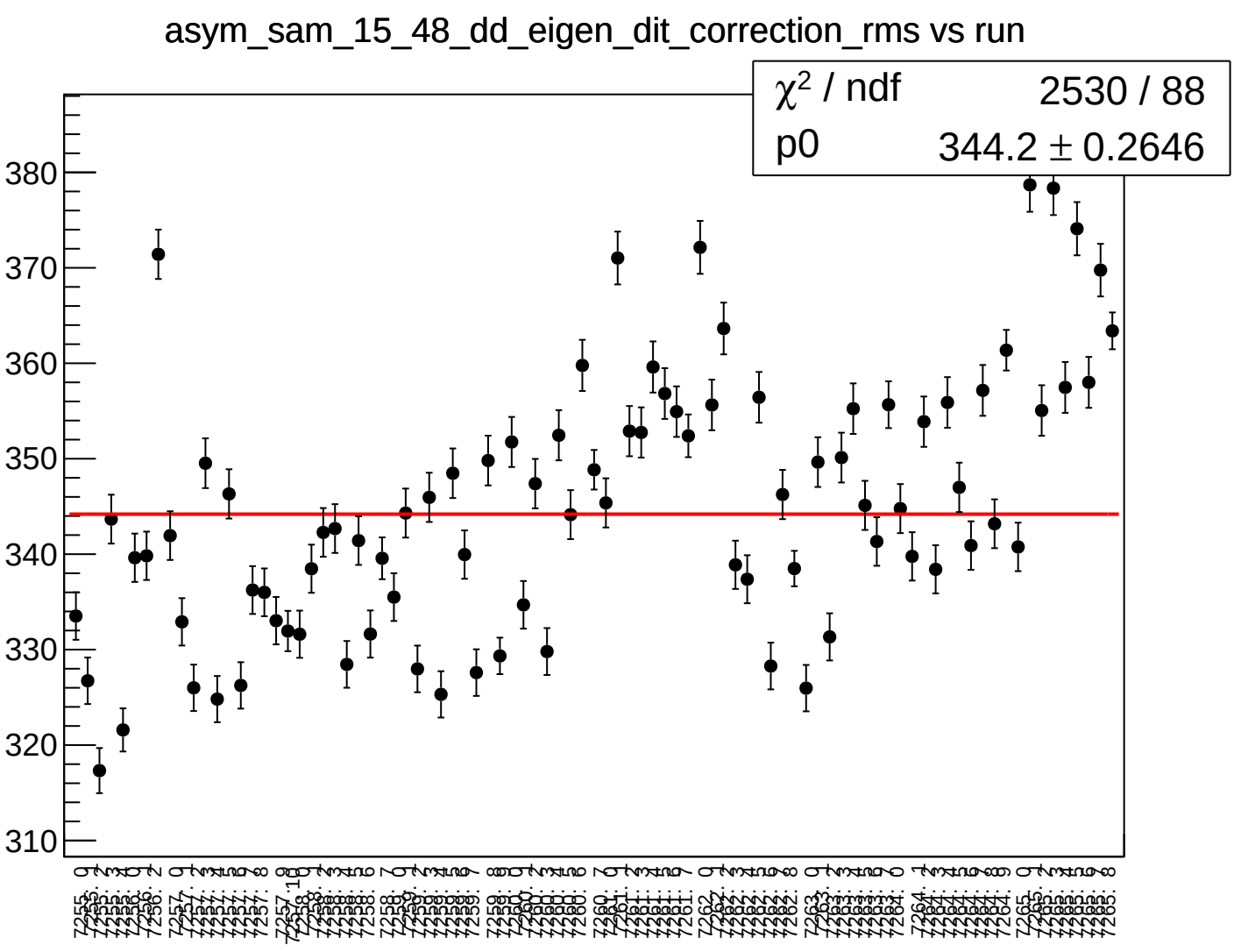

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 2530 / 88
p0 344.2 ± 0.2646
380
370
360
350
340
330
320
310

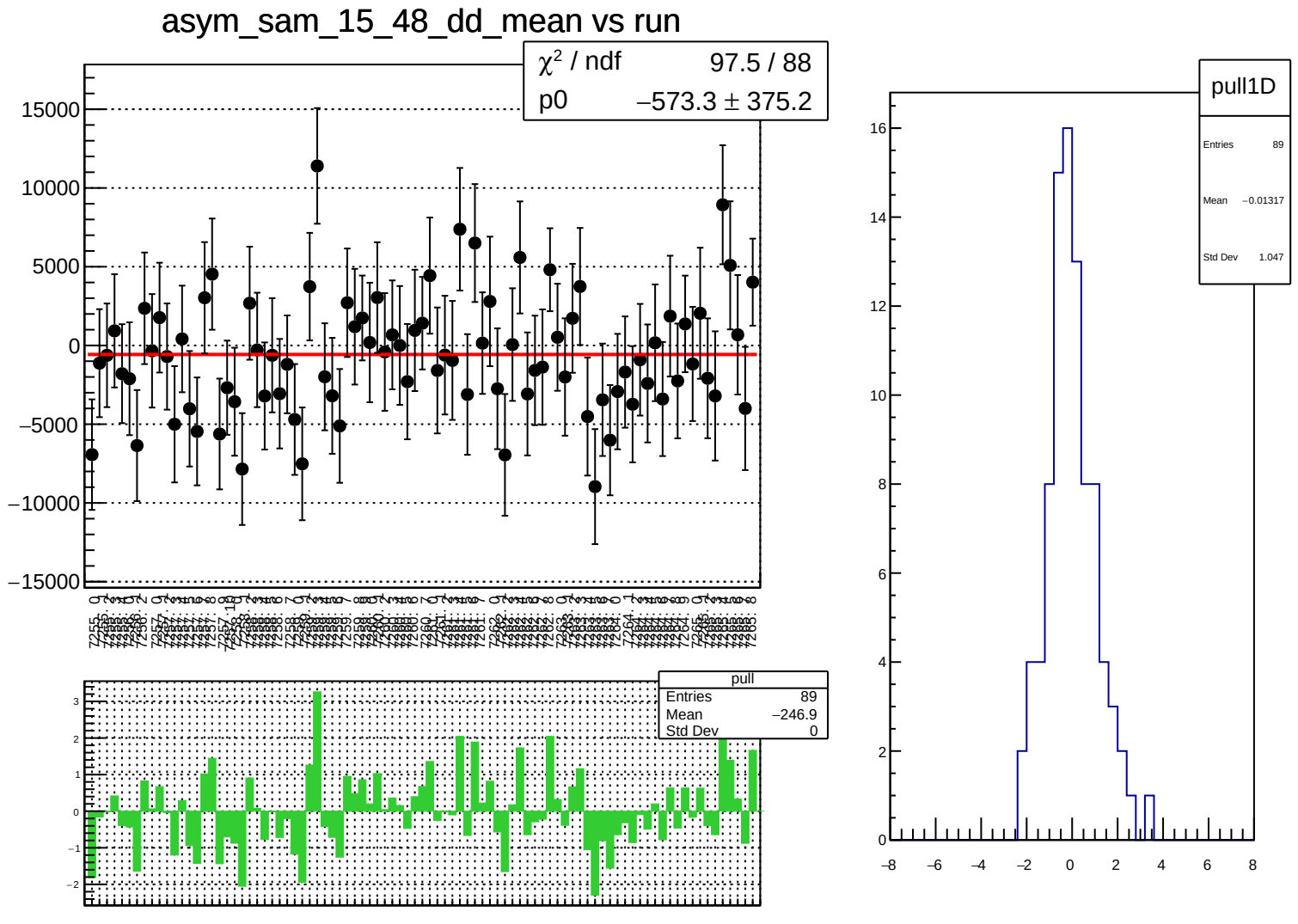

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 70.58 / 88
p0 −19.62 ± 58.94
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 89.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01118
Std Dev 0.8905
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

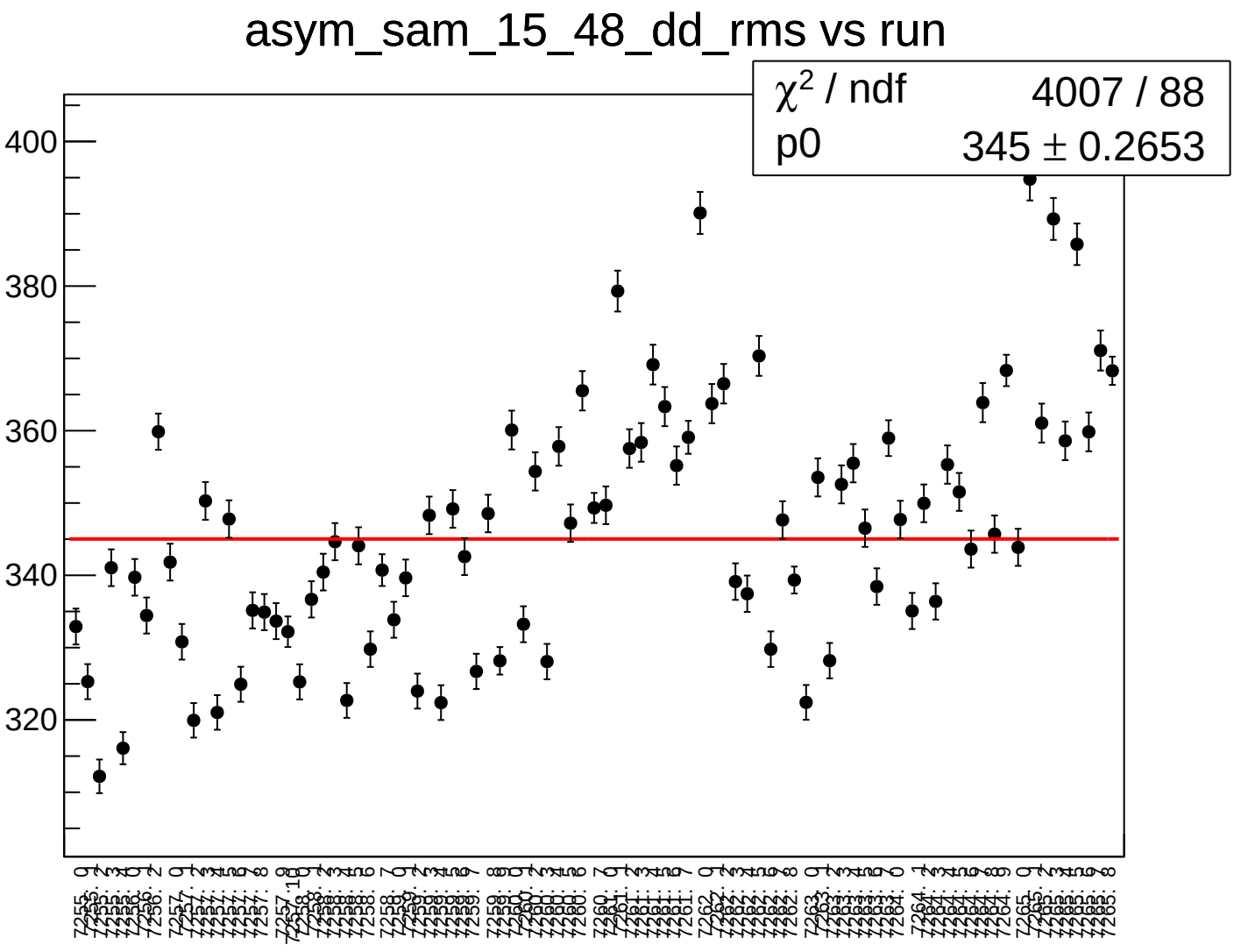

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 8.688e+04 / 88
p0 52.85 ± 0.04168
110
100
90
80
70
60
50
40

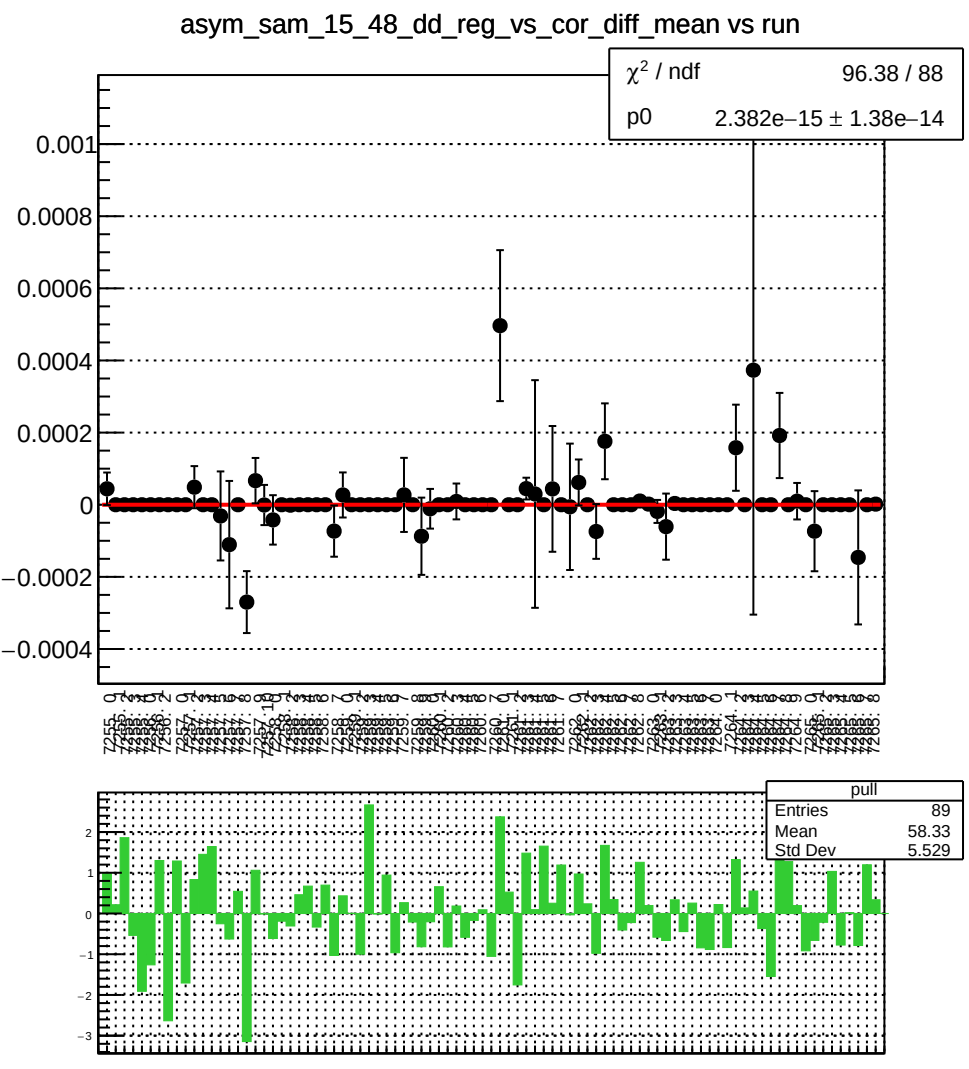

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.42 / 88
p0 552.5 ± 374.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −194.9
Std Dev 0
2
1
0
−1
−2
−3

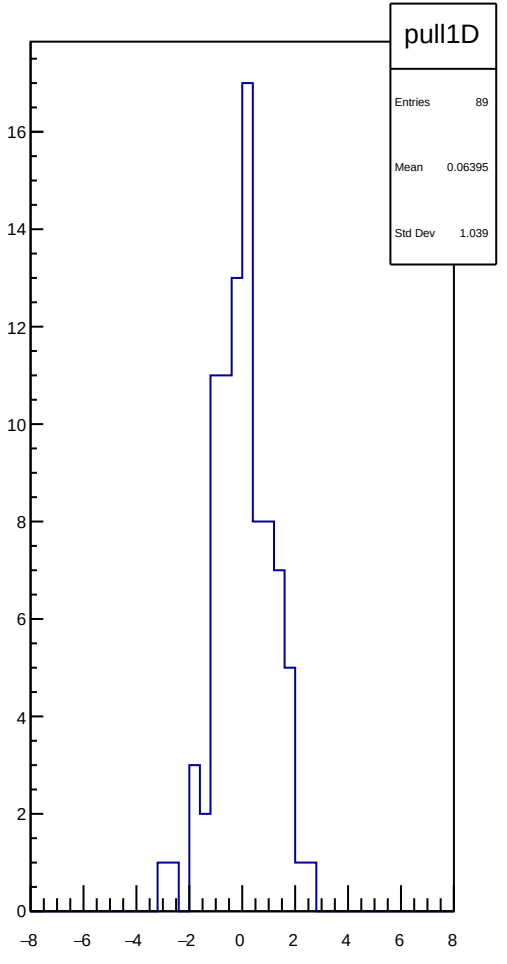

pull1D
Entries 89
Mean 0.016
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

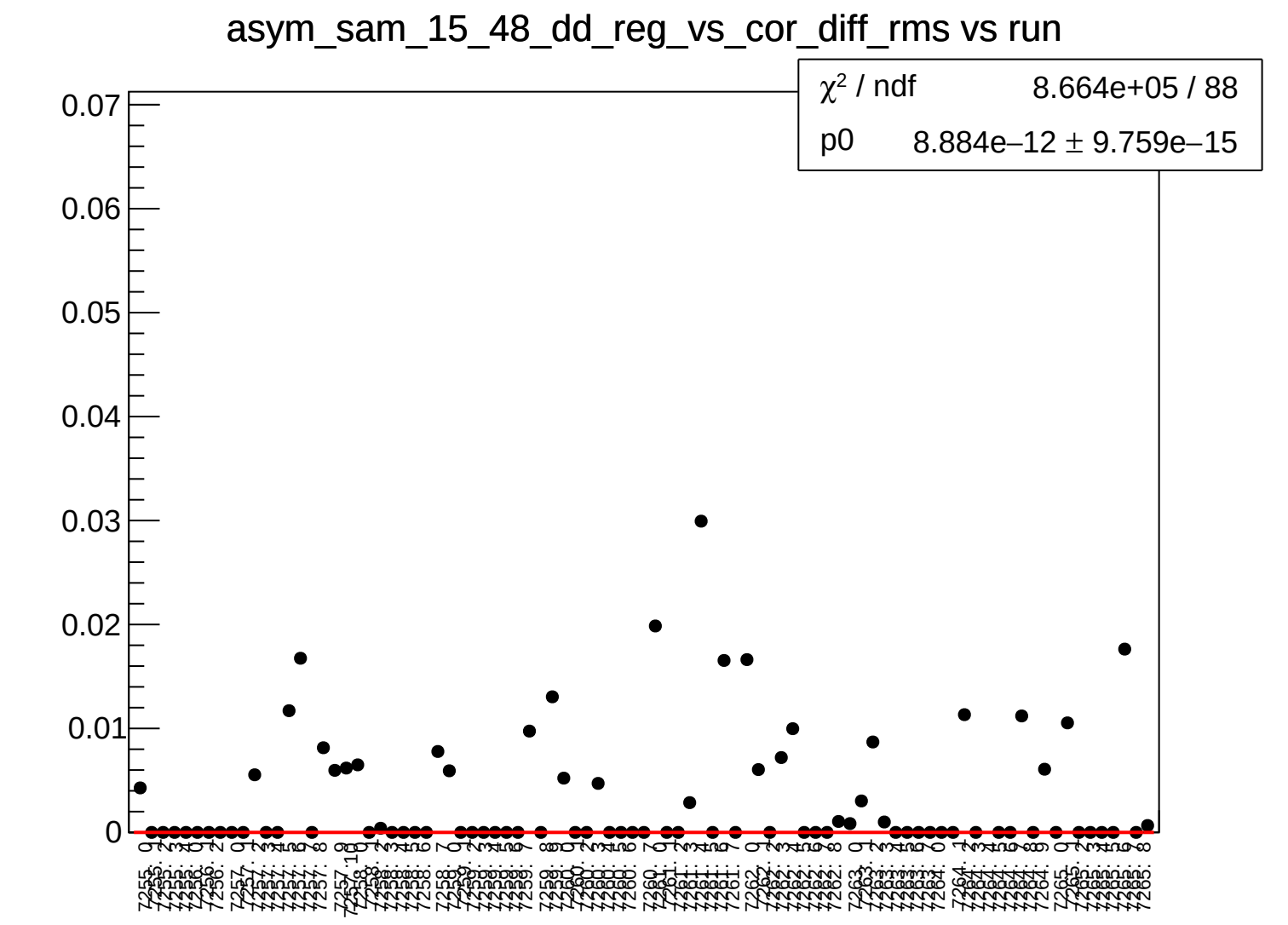

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2530 / 88
p0 344.2 ± 0.2646
380
370
360
350
340
330
320
310

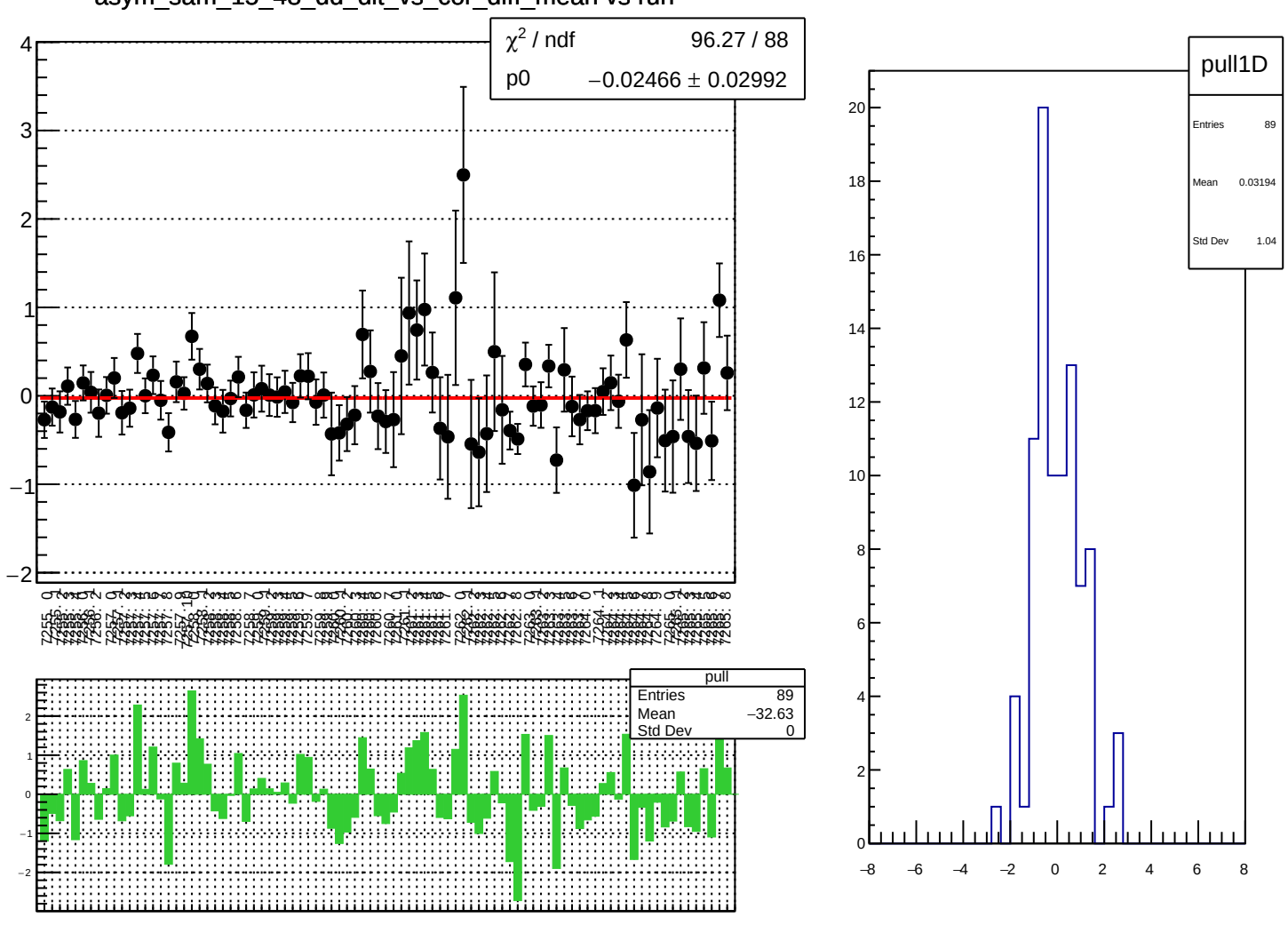

asym_sam_15_48_dd_mean vs run
χ² / ndf 97.5 / 88
p0 −573.3 ± 375.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −246.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01317
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

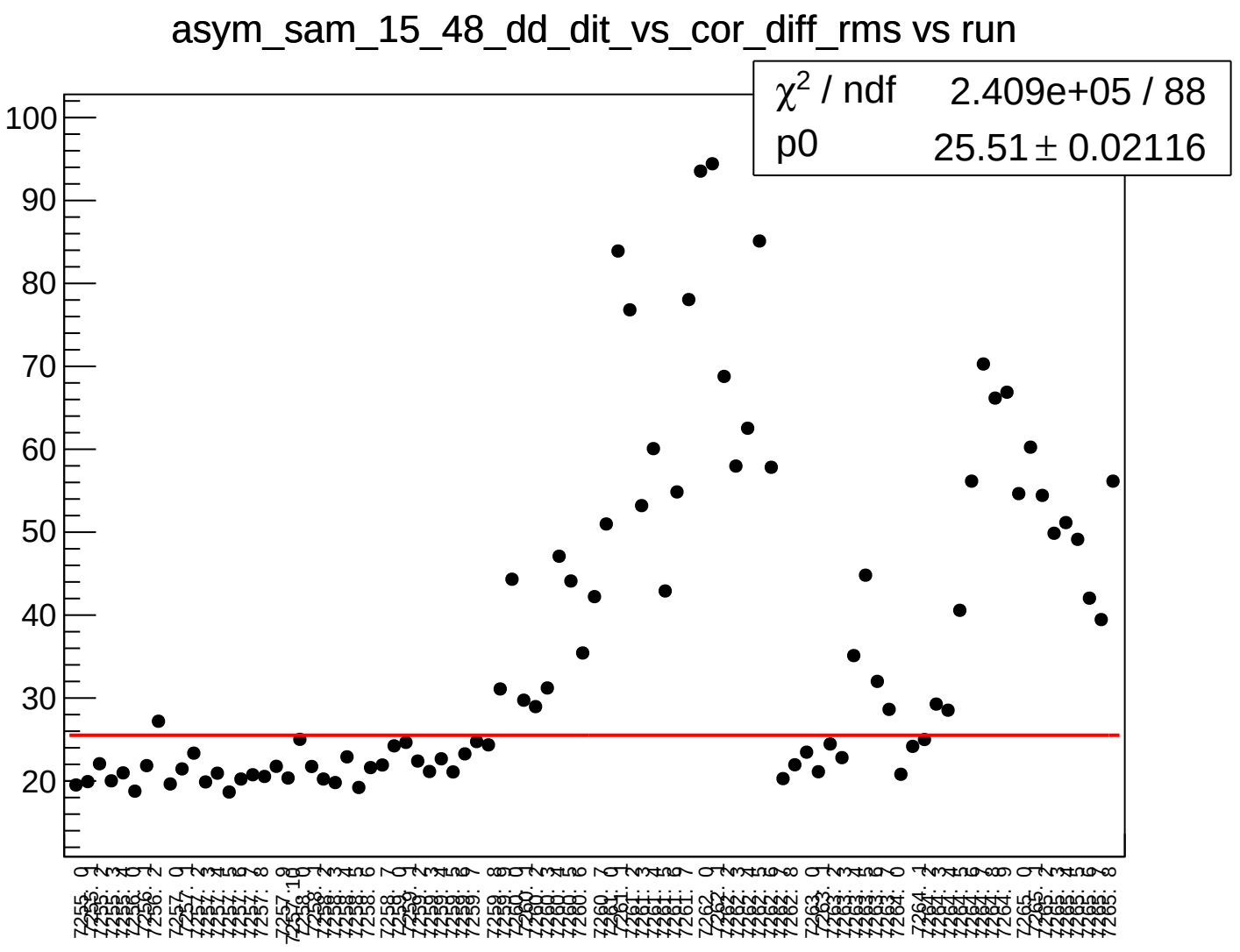

asym_sam_15_48_dd_rms vs run
χ² / ndf 4007 / 88
p0 345 ± 0.2653
400
380
360
340
320

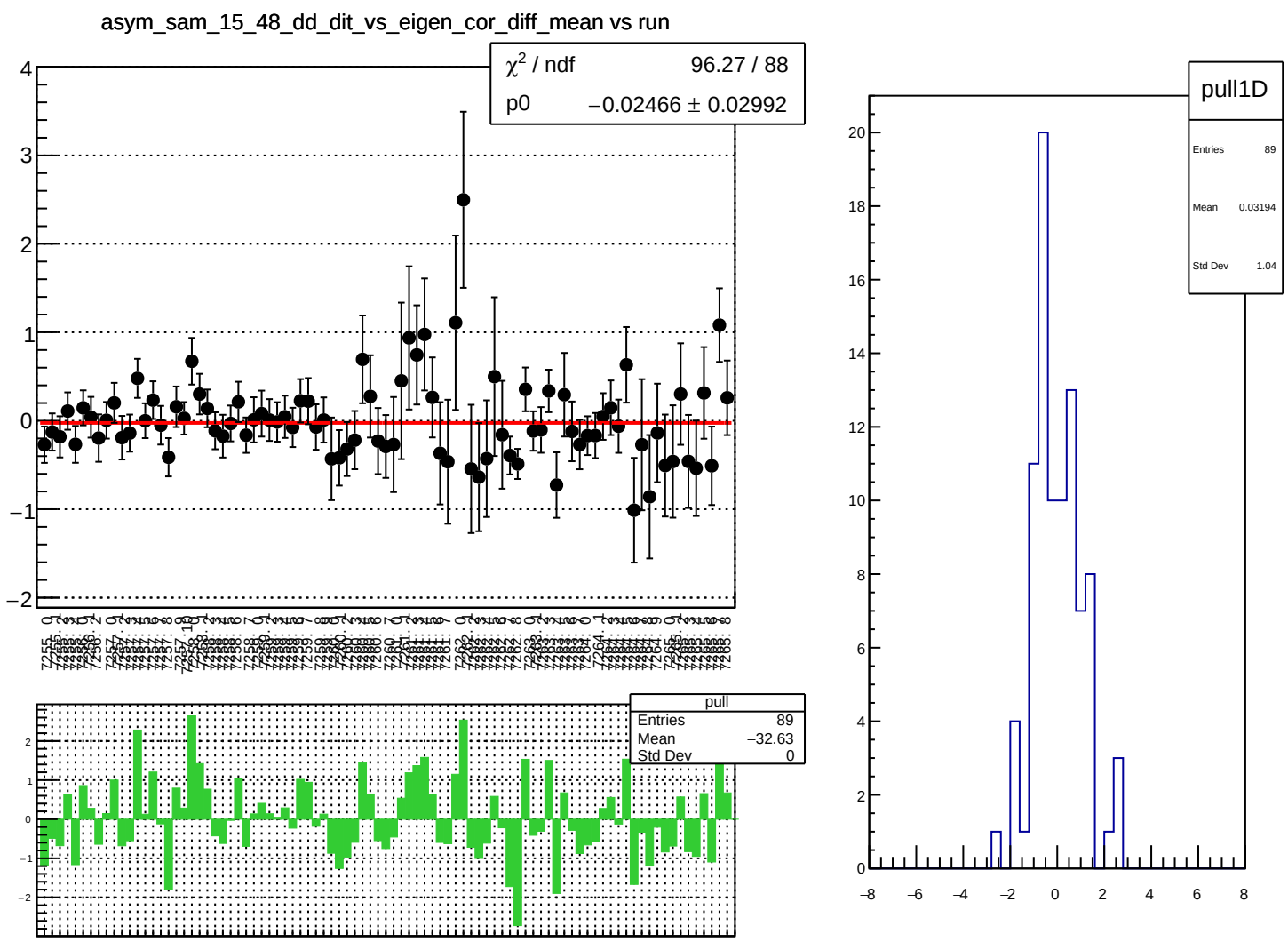

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.38 / 88
p0 2.382e−15 ± 1.38e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 89
Mean 58.33
Std Dev 5.529
2
1
0
−1
−2
−3

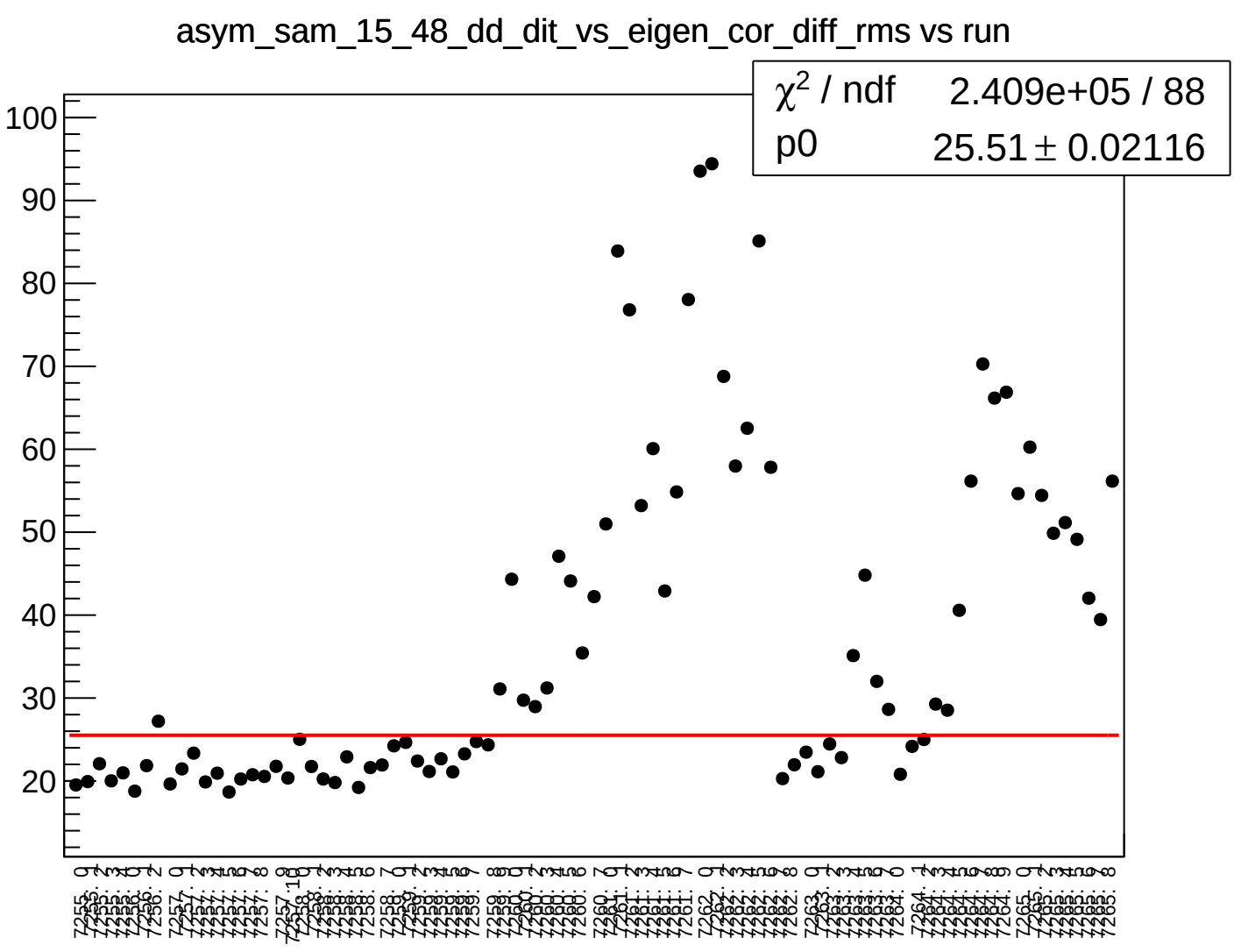

pull1D
Entries 89
Mean 0.06395
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

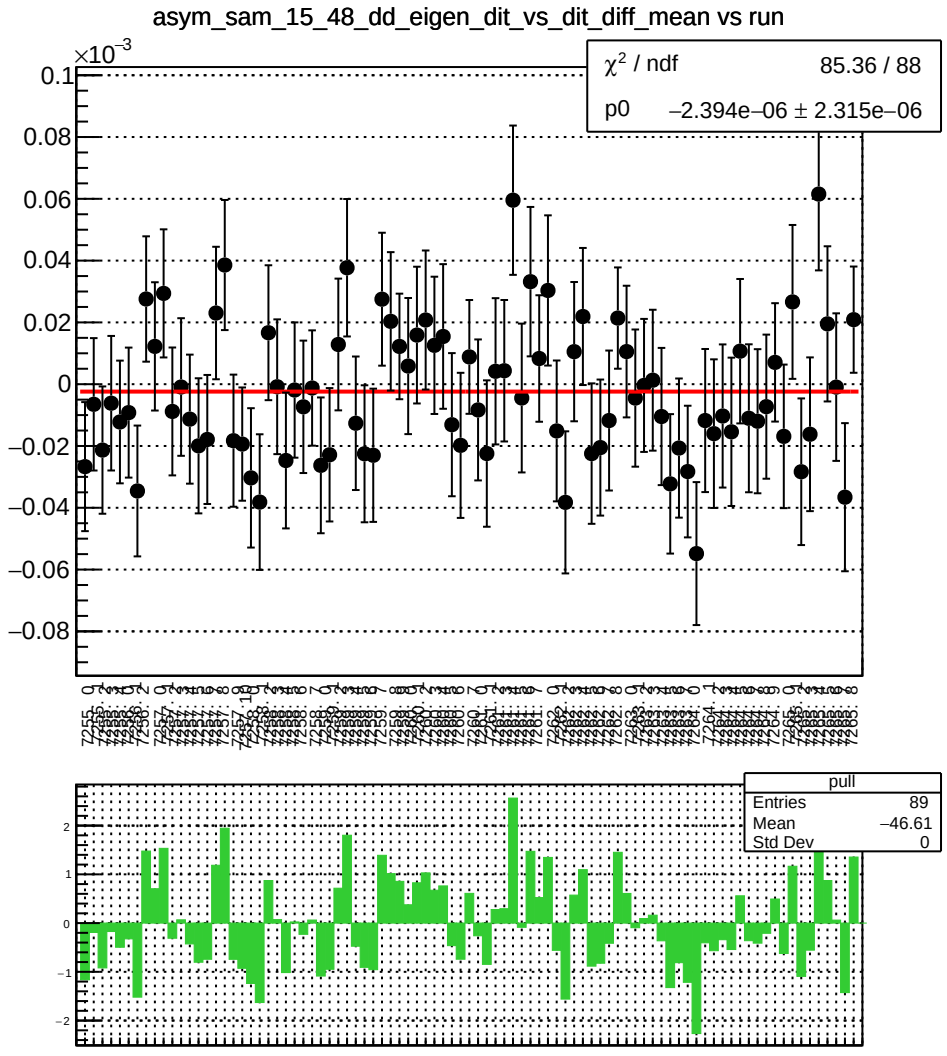

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.664e+05 / 88
p0 8.884e−12 ± 9.759e−15
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

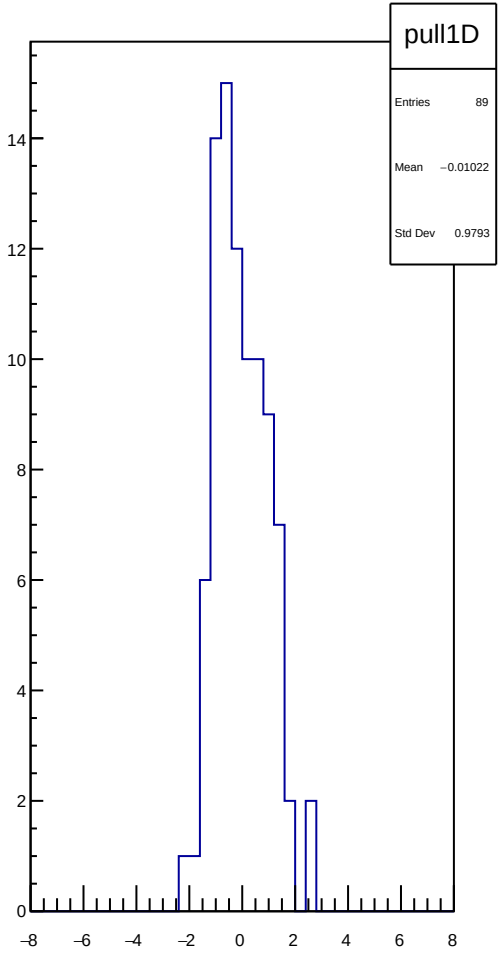

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.27 / 88
p0 −0.02466 ± 0.02992
pull
Entries 89
Mean −32.63
Std Dev 0
pull1D
Entries 89
Mean 0.03194
Std Dev 1.04

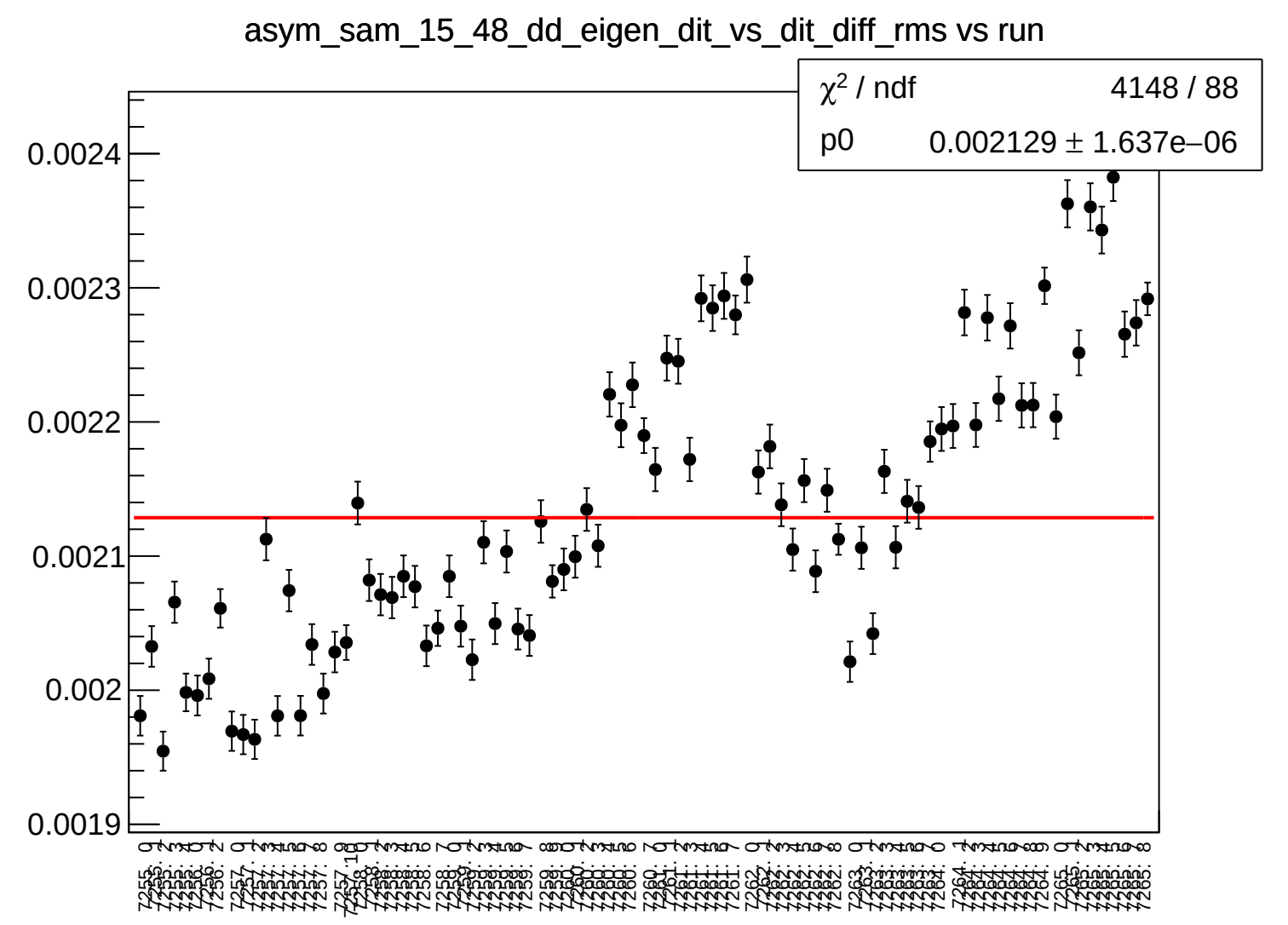

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.409e+05 / 88
p0 25.51 ± 0.02116
100
90
80
70
60
50
40
30
20

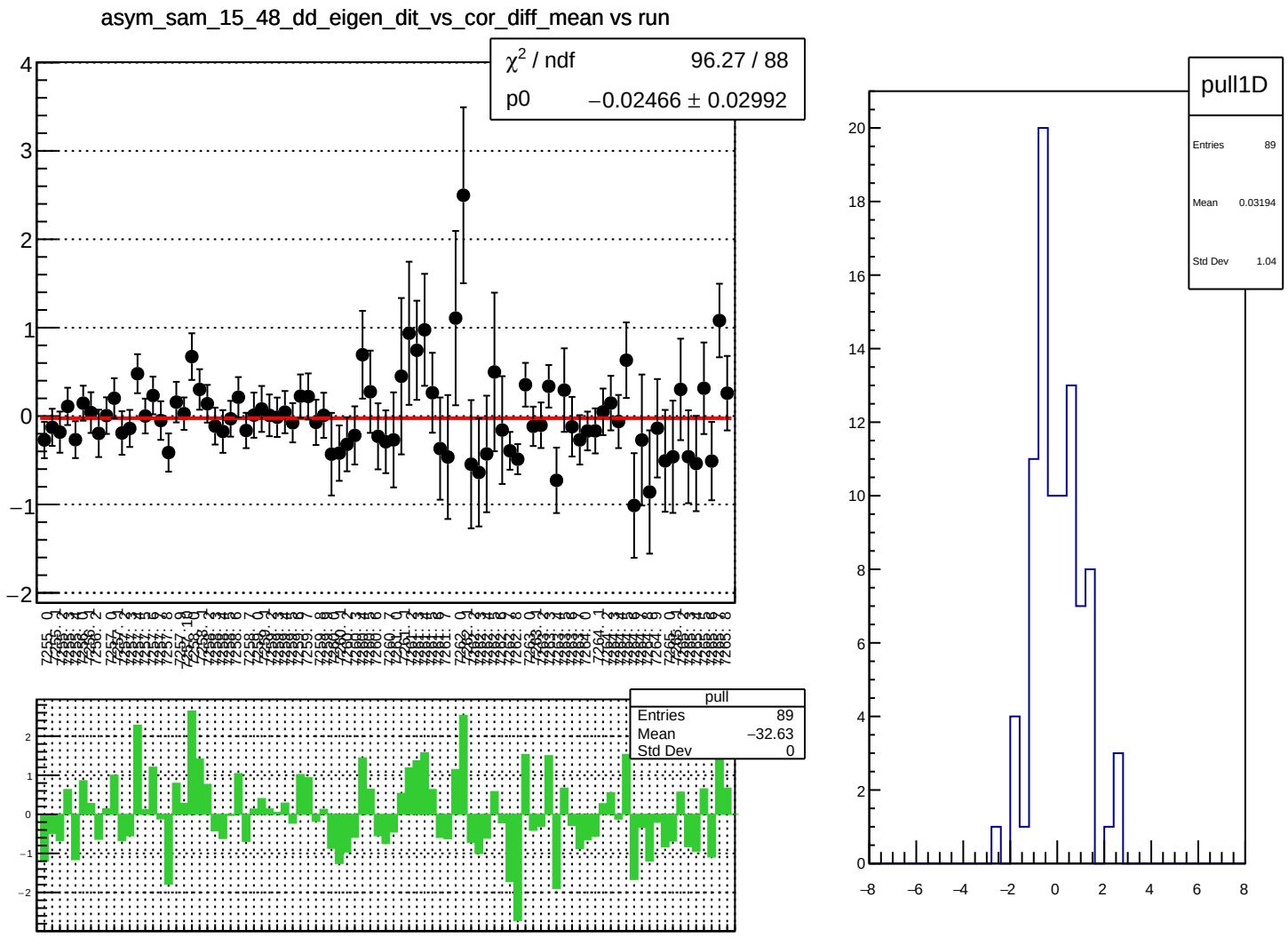

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.27 / 88
p0 −0.02466 ± 0.02992
pull
Entries 89
Mean −32.63
Std Dev 0
pull1D
Entries 89
Mean 0.03194
Std Dev 1.04

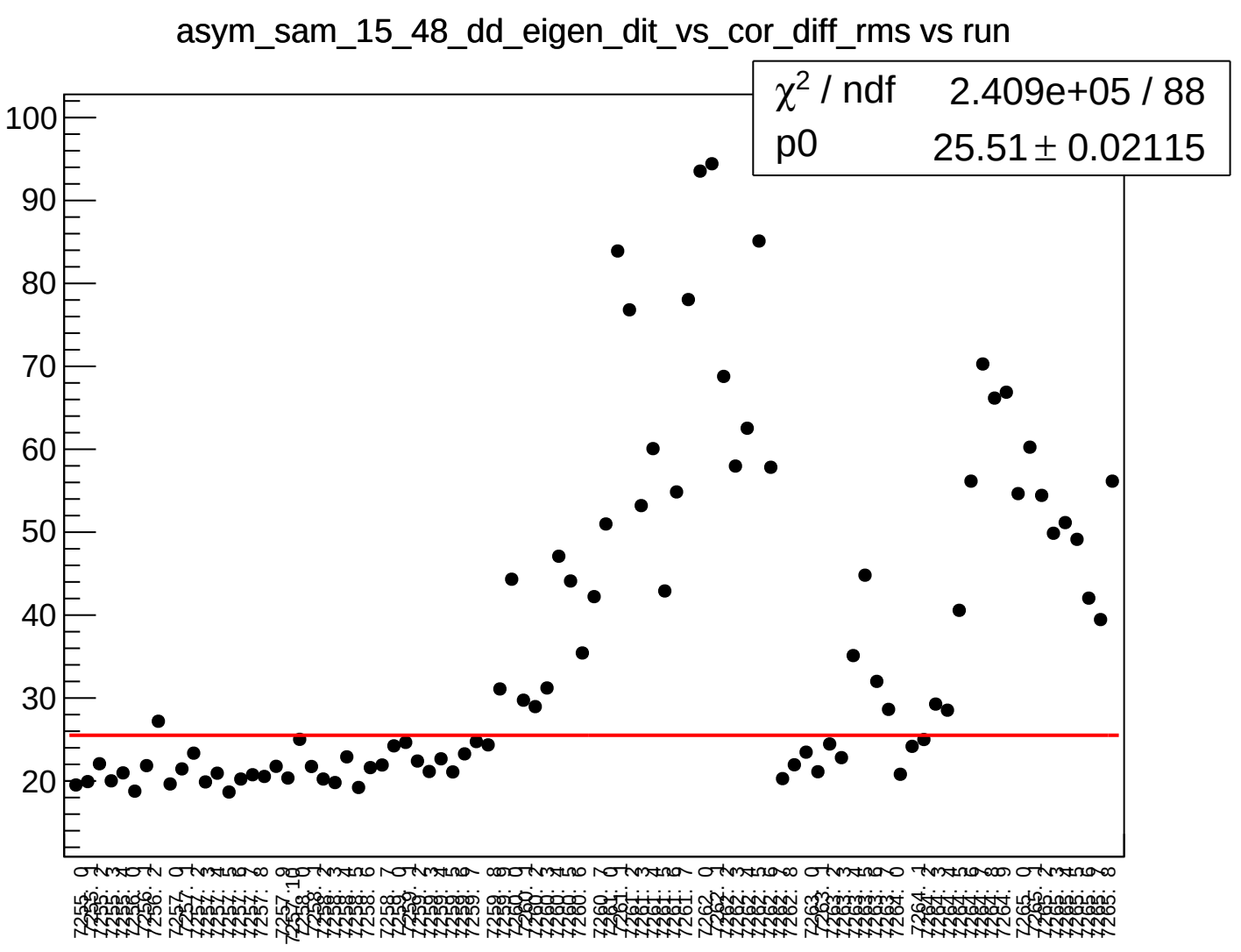

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.409e+05 / 88
p0 25.51 ± 0.02116
100
90
80
70
60
50
40
30
20

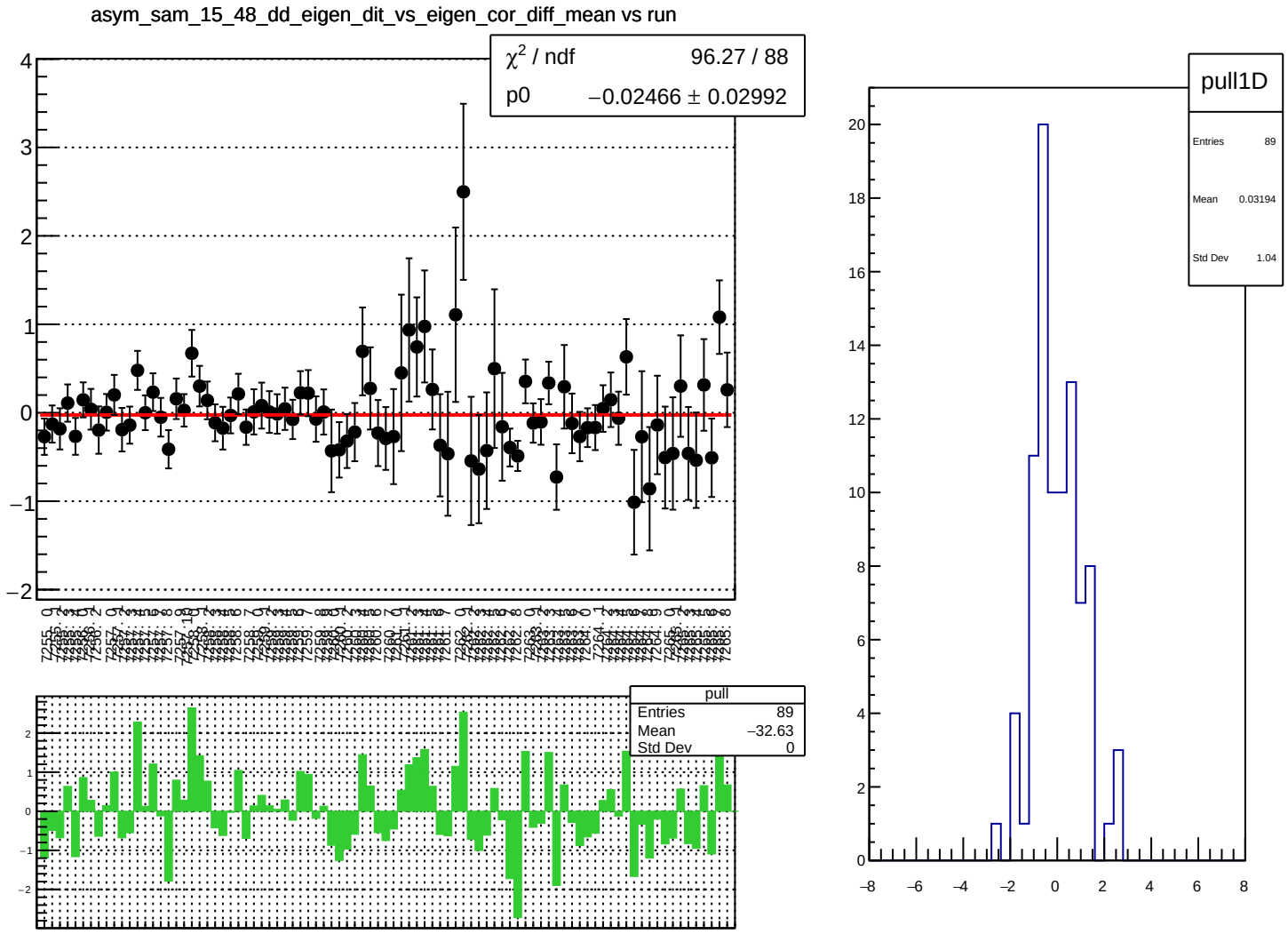

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 85.36 / 88
p0 −2.394e−06 ± 2.315e−06
pull
Entries 89
Mean −46.61
Std Dev 0

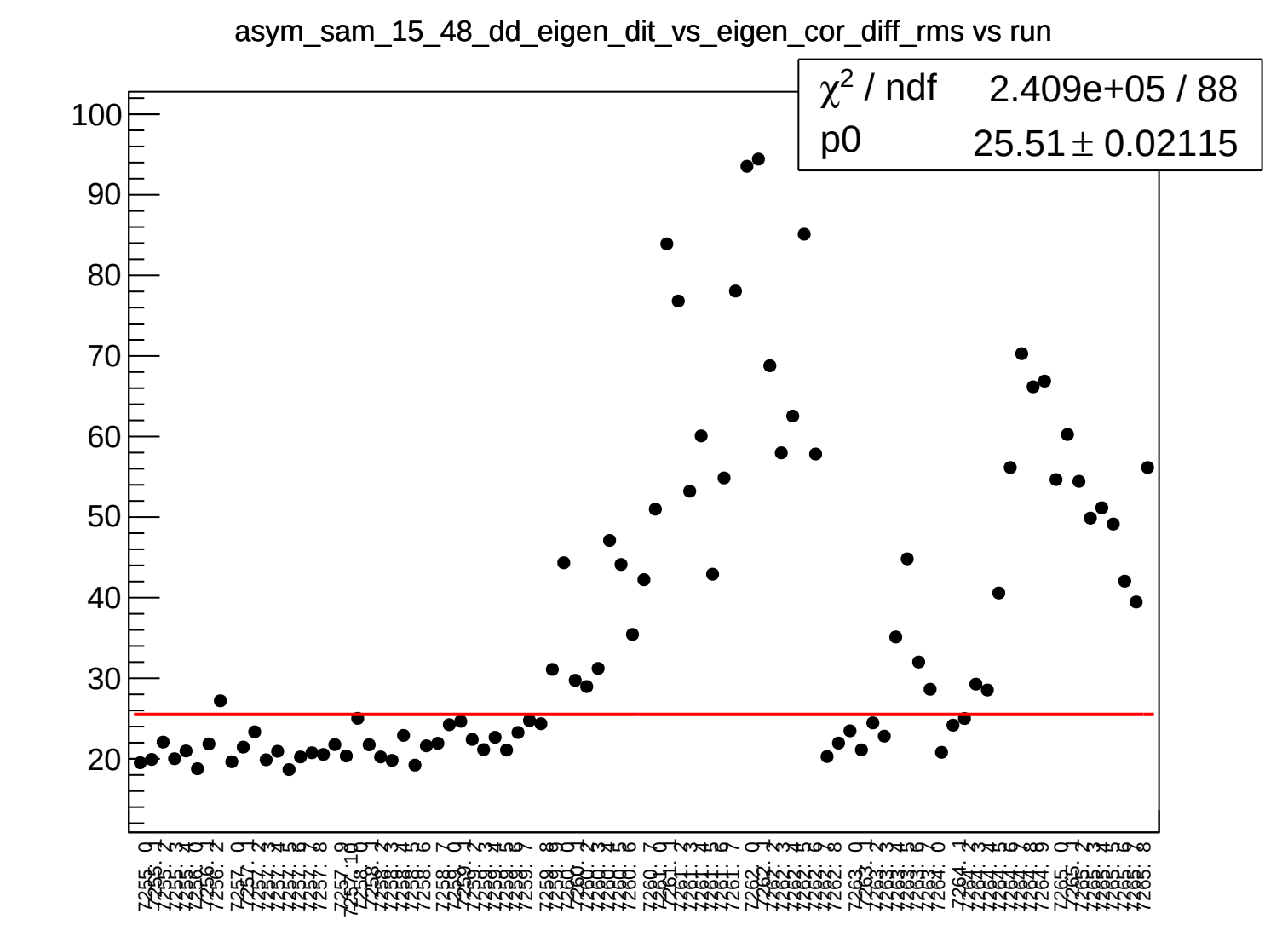

pull1D
Entries 89
Mean −0.01022
Std Dev 0.9793

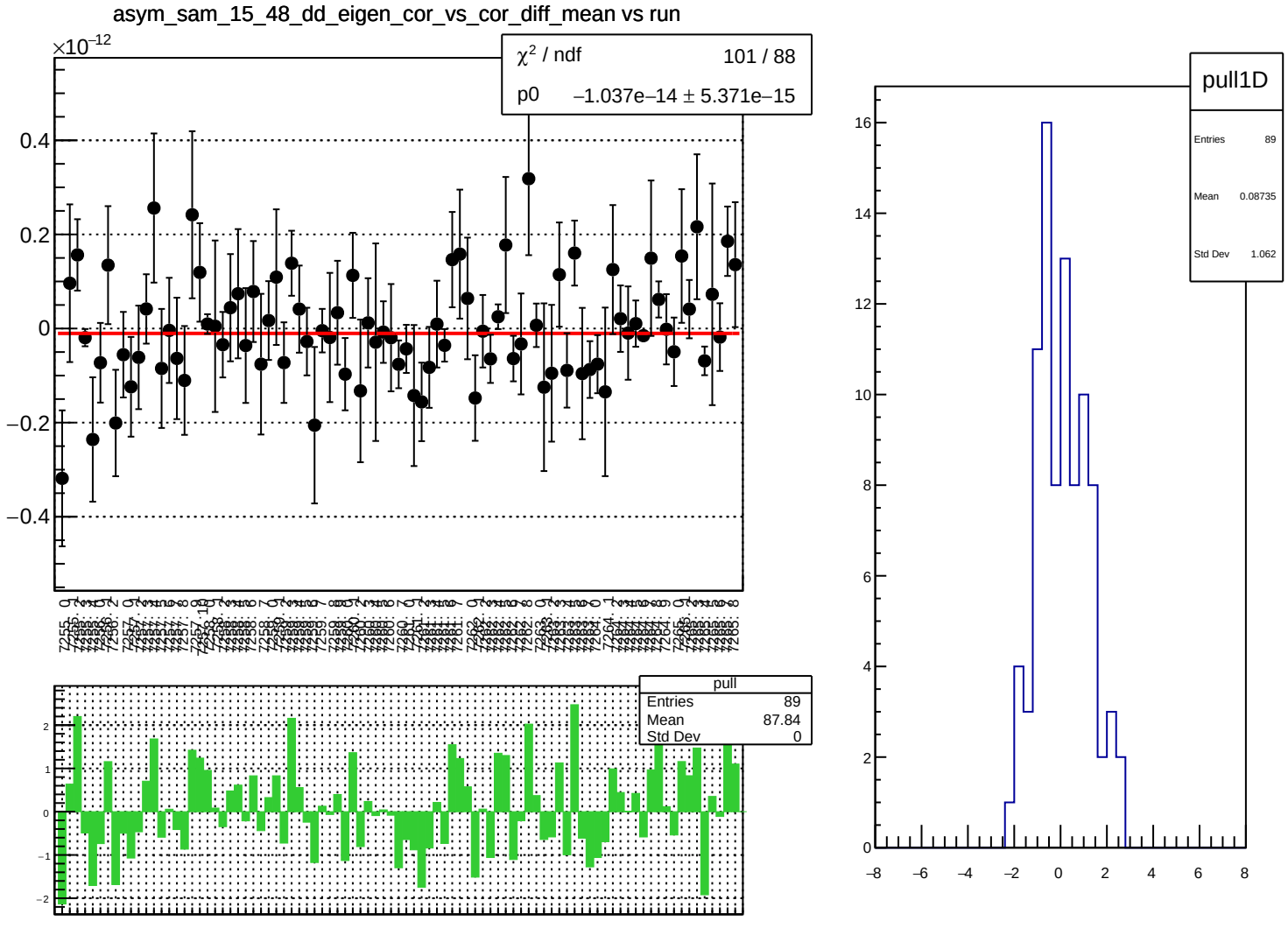

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4148 / 88
p0 0.002129 ± 1.637e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

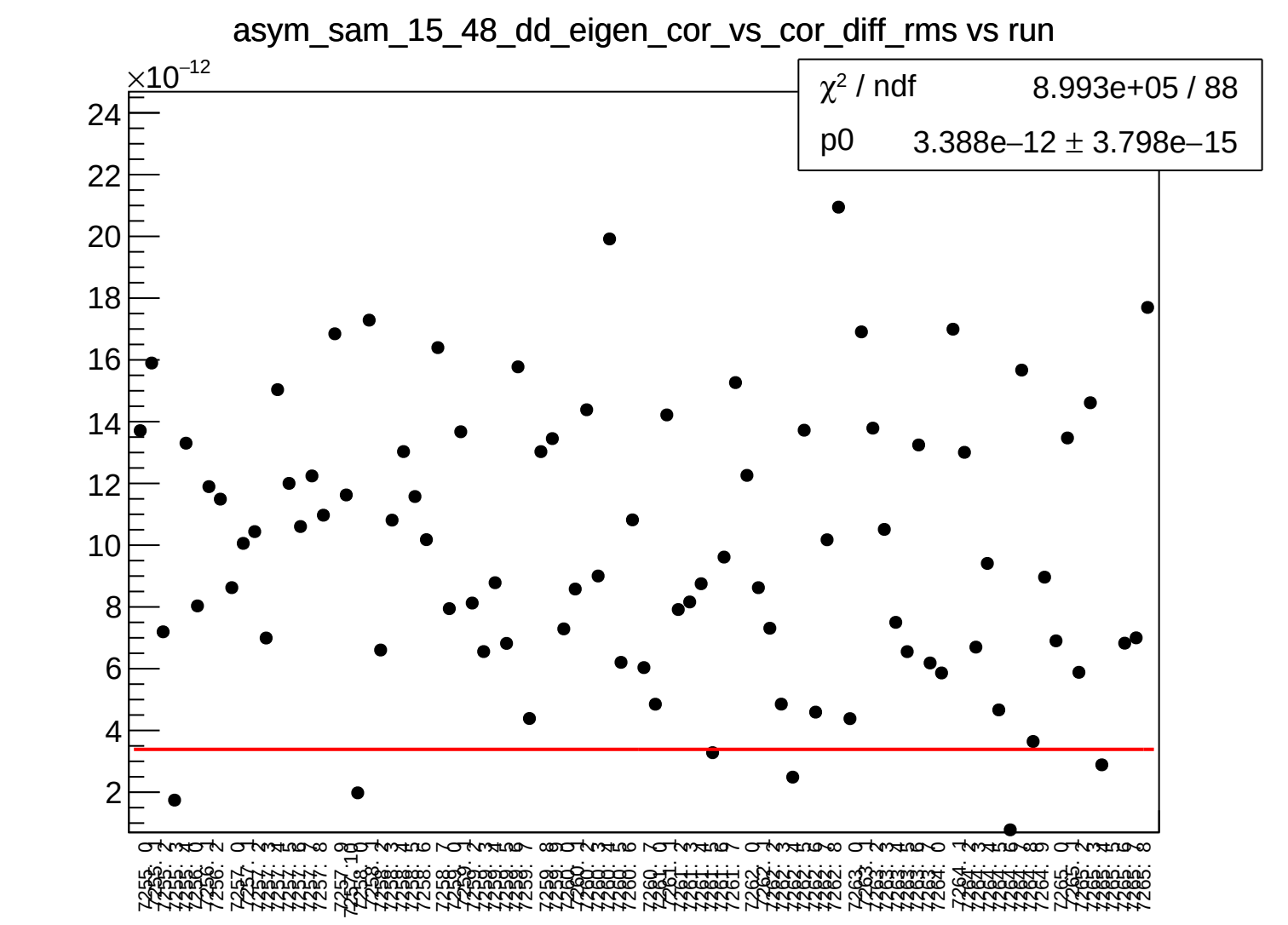

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.27 / 88
p0 −0.02466 ± 0.02992
pull
Entries 89
Mean −32.63
Std Dev 0
pull1D
Entries 89
Mean 0.03194
Std Dev 1.04

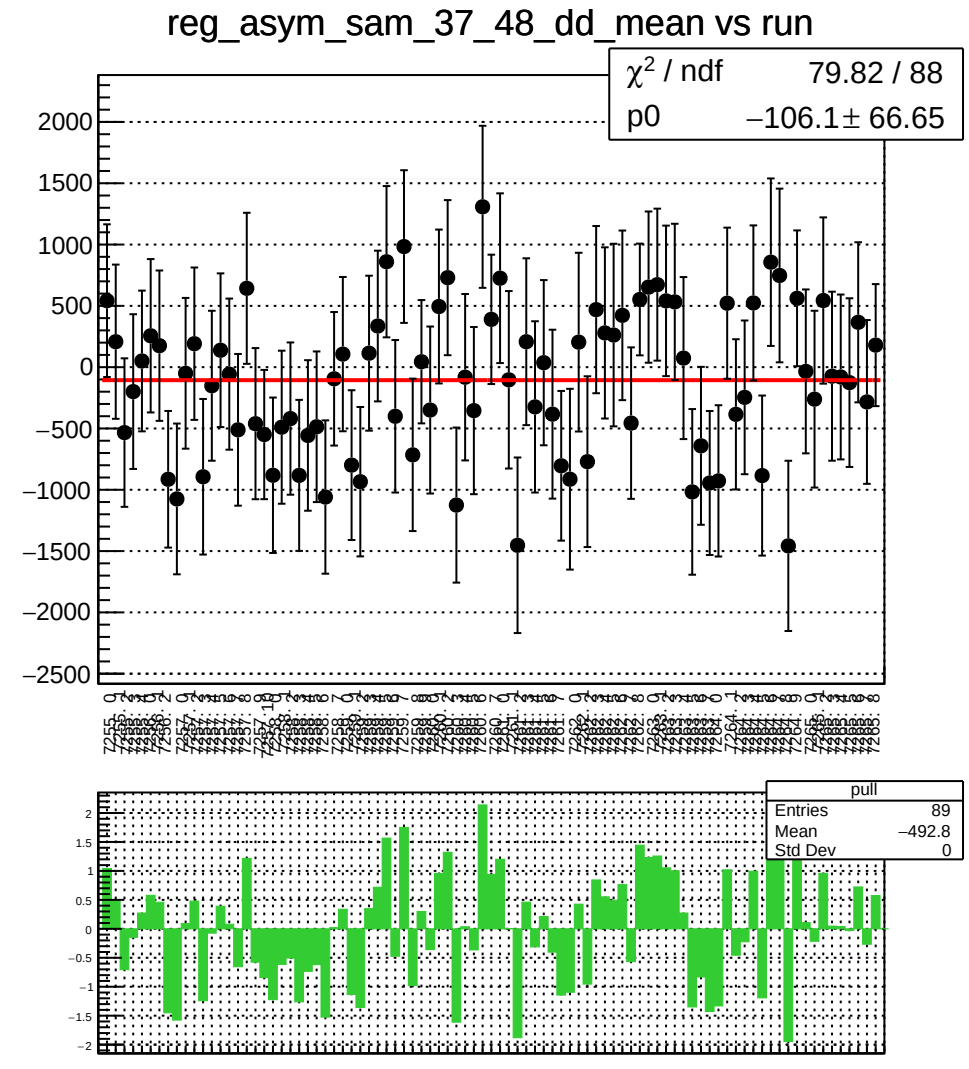

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.409e+05 / 88
p0 25.51 ± 0.02115
100
90
80
70
60
50
40
30
20

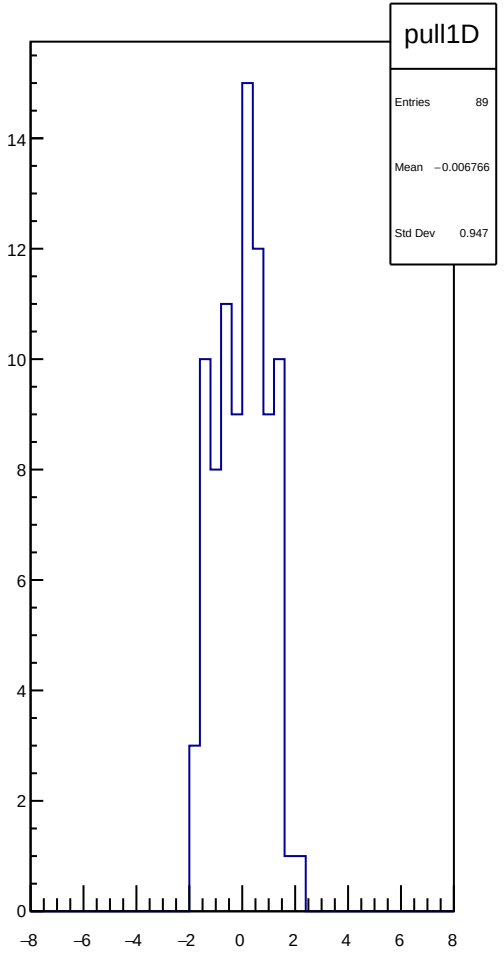

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.27 / 88
p0 −0.02466 ± 0.02992
pull
Entries 89
Mean −32.63
Std Dev 0
pull1D
Entries 89
Mean 0.03194
Std Dev 1.04

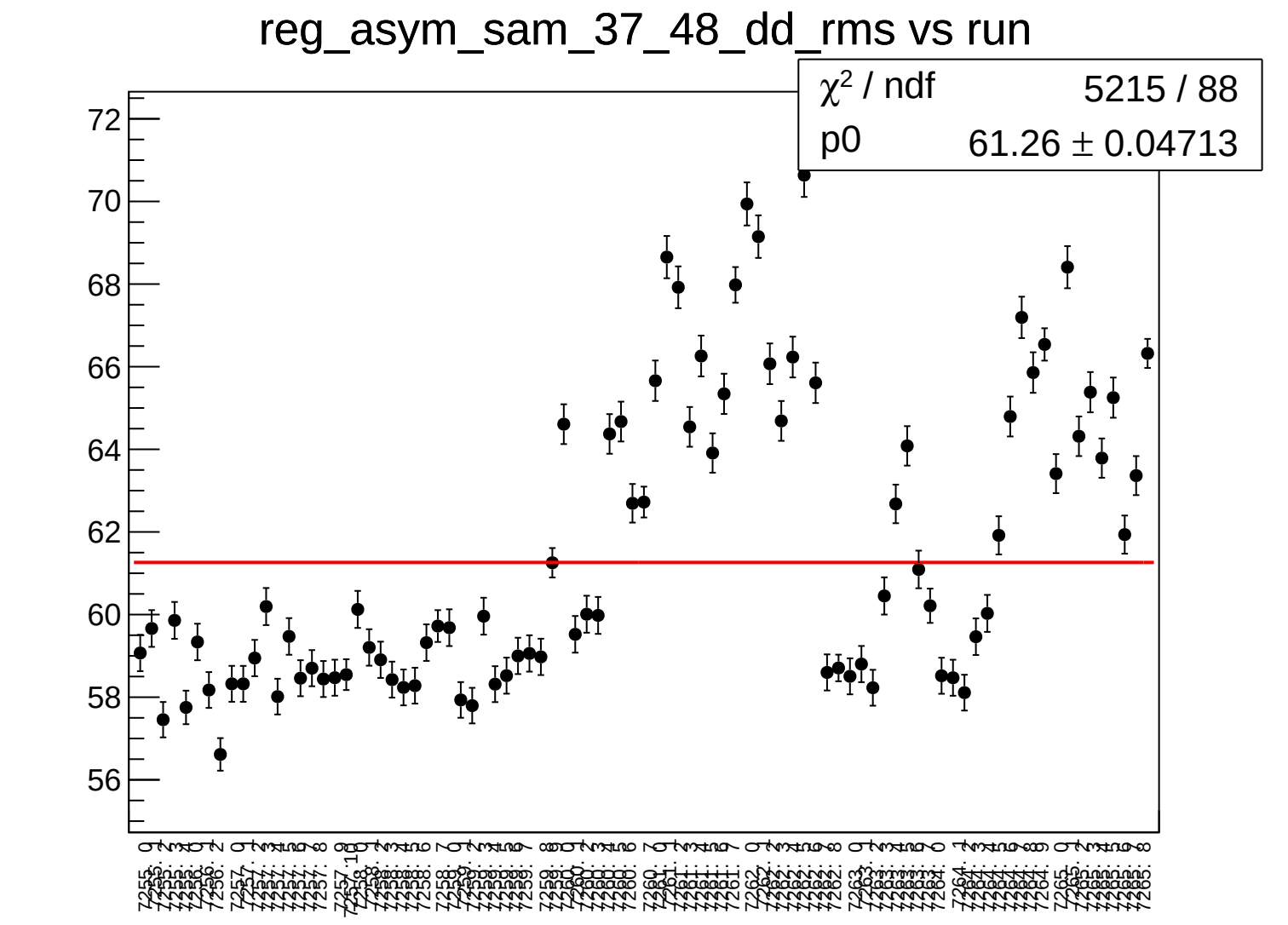

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.409e+05 / 88
p0 25.51 ± 0.02115
100
90
80
70
60
50
40
30
20

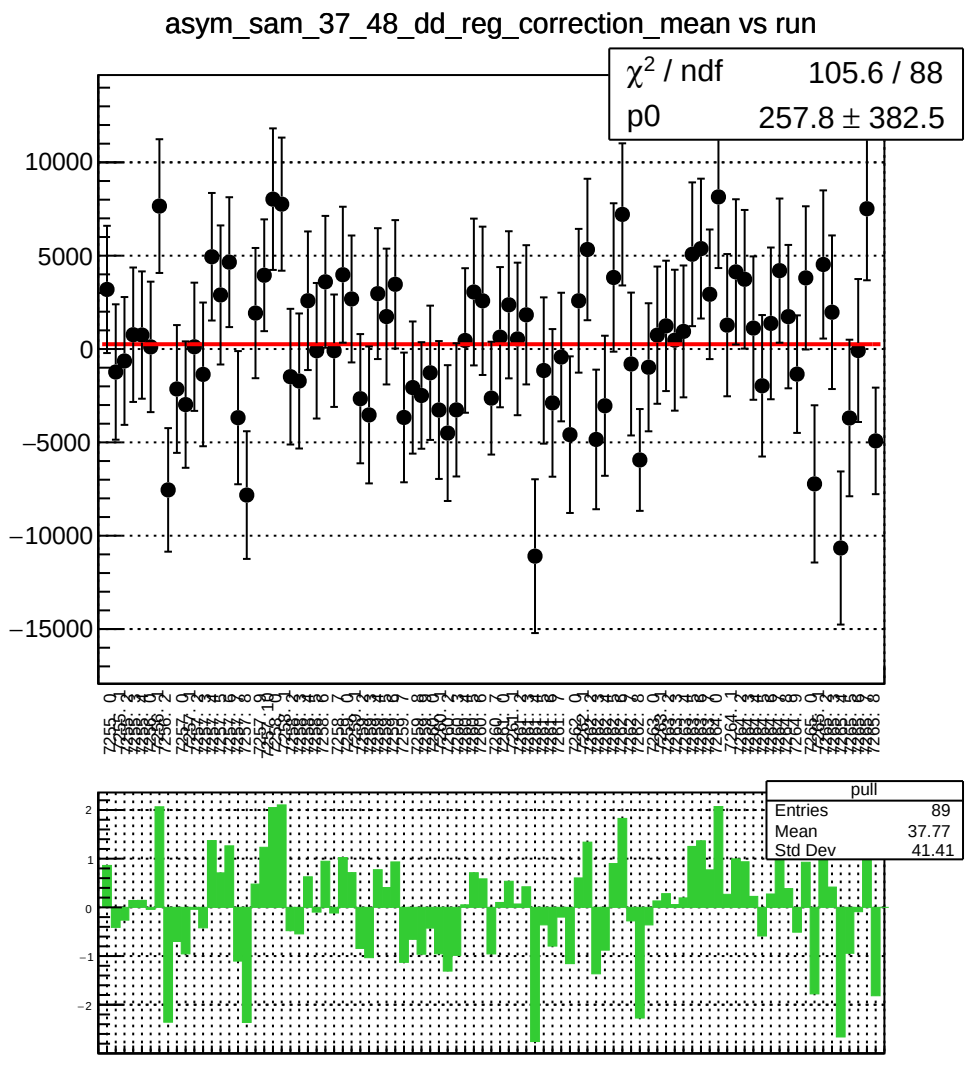

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101 / 88
p0 −1.037e−14 ± 5.371e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean 87.84
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.08735
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

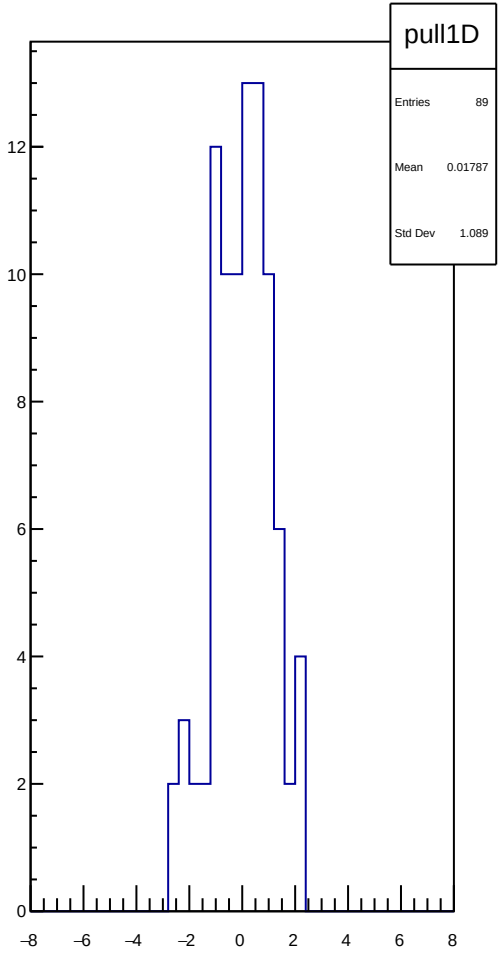

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.993e+05 / 88
p0 3.388e−12 ± 3.798e−15

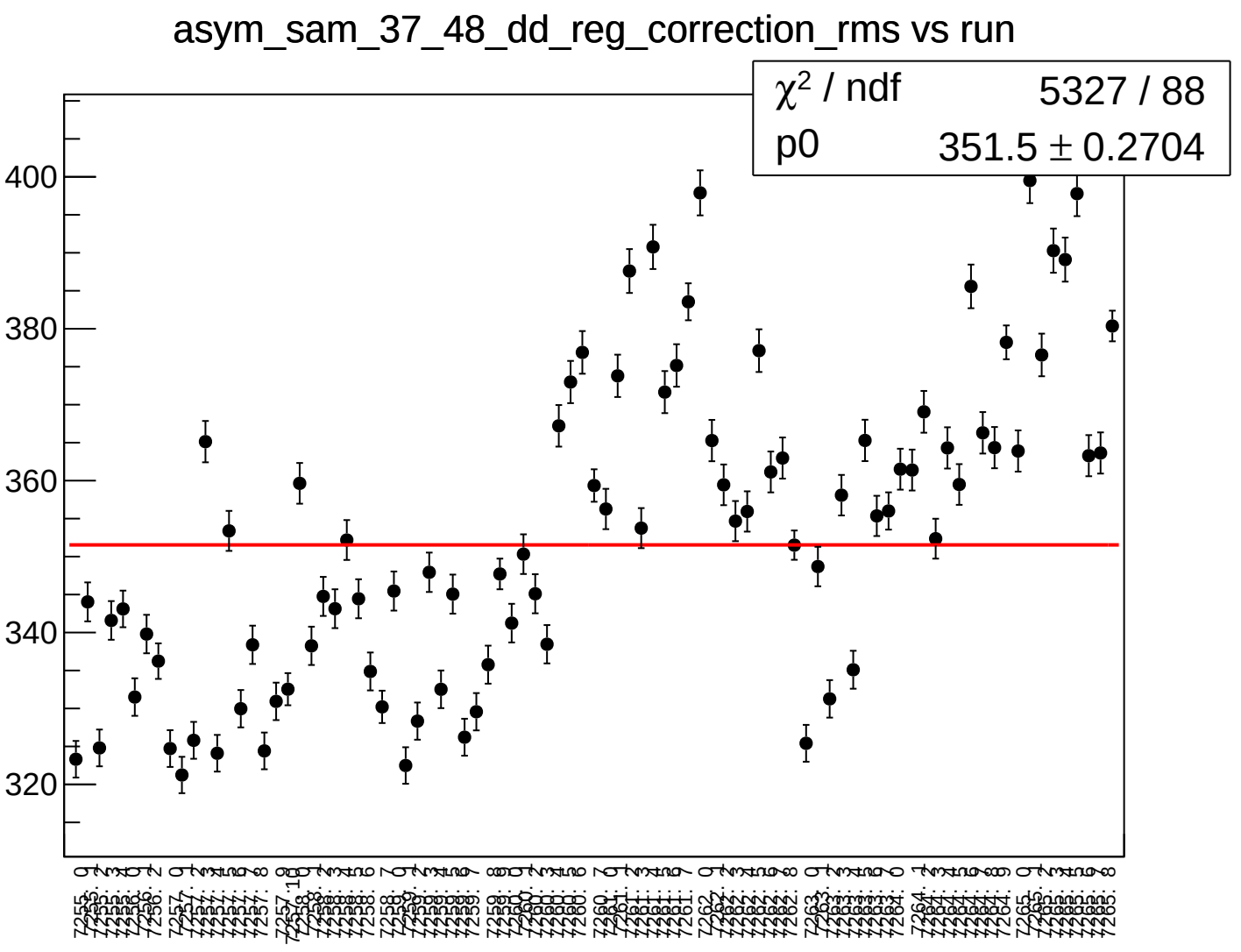

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 79.82 / 88
p0 −106.1± 66.65
pull
Entries 89
Mean −492.8
Std Dev 0

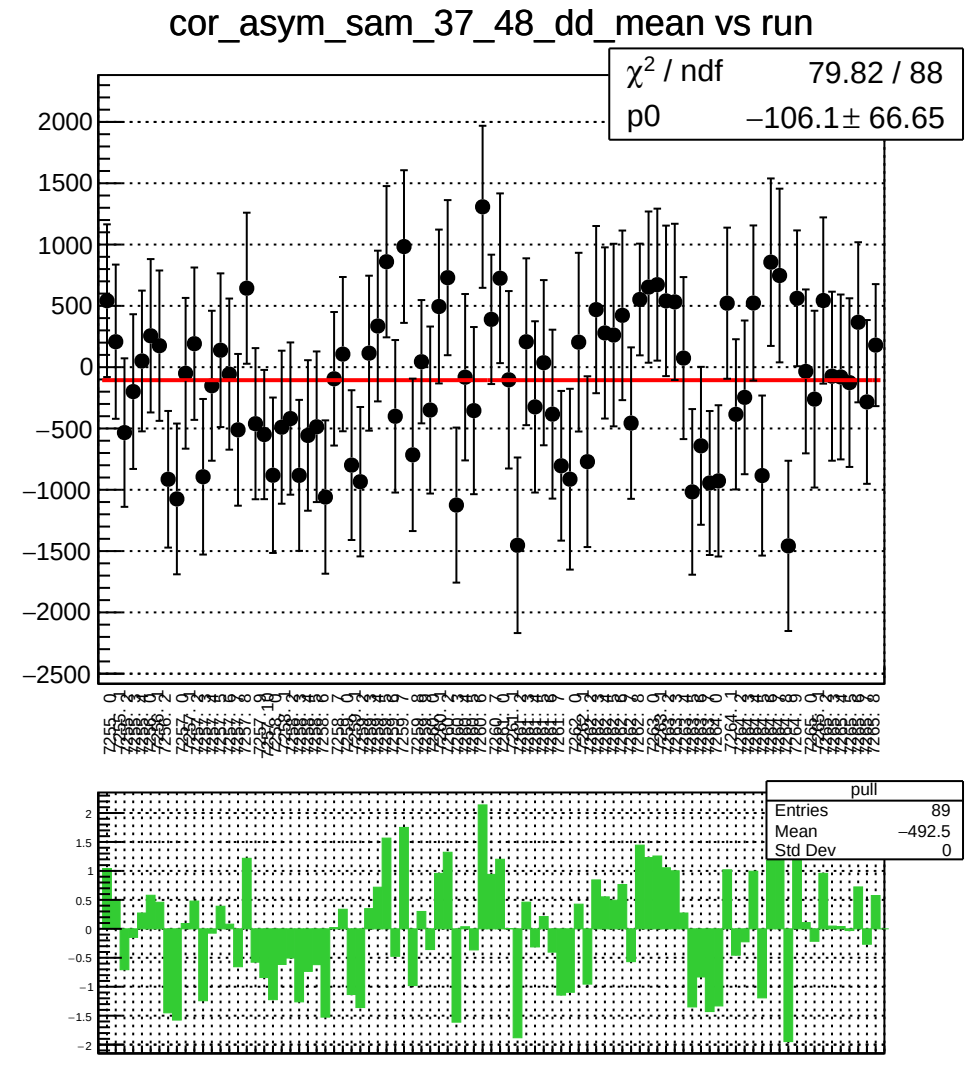

pull1D
Entries 89
Mean −0.006766
Std Dev 0.947

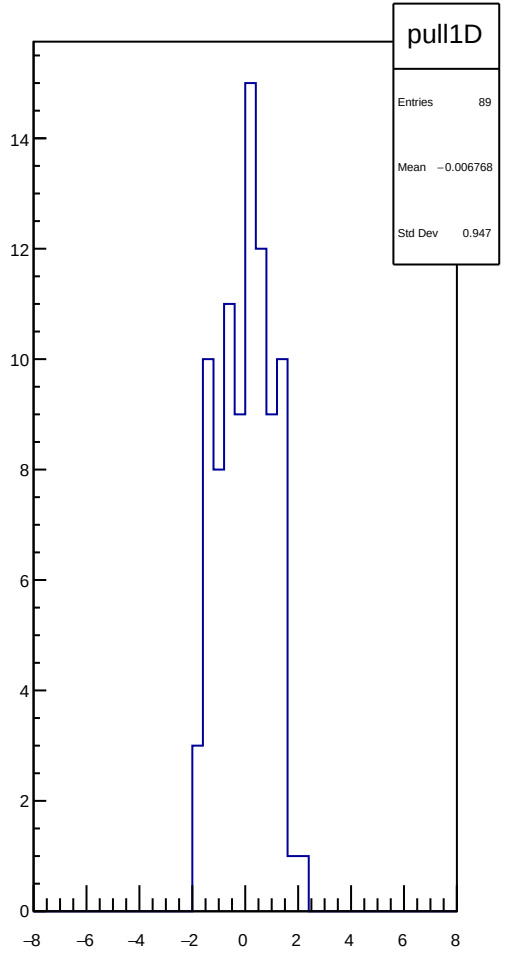

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 5215 / 88
p0 61.26 ± 0.04713
72
70
68
66
64
62
60
58
56

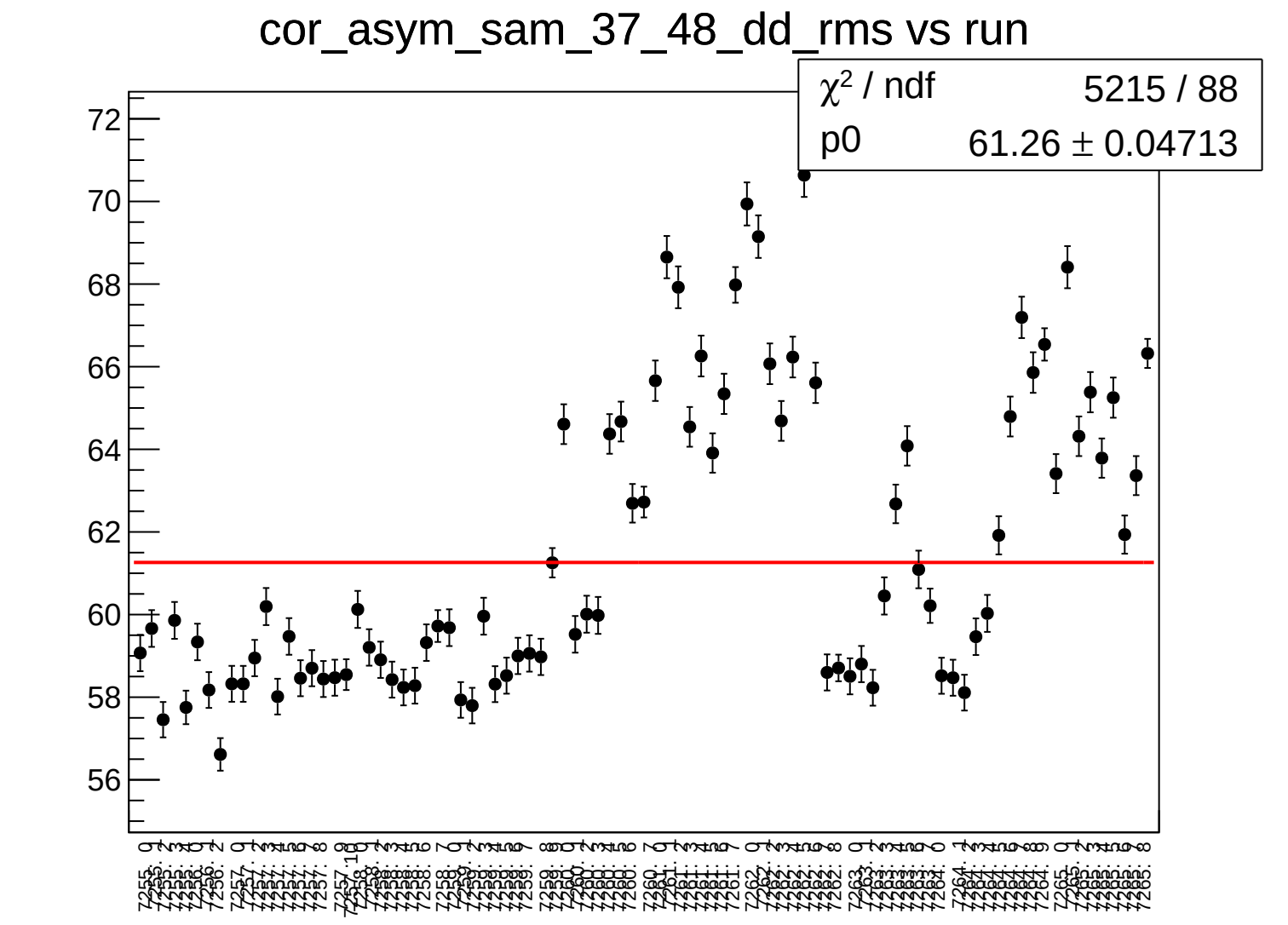

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 105.6 / 88
p0 257.8 ± 382.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 37.77
Std Dev 41.41
2
1
0
−1
−2

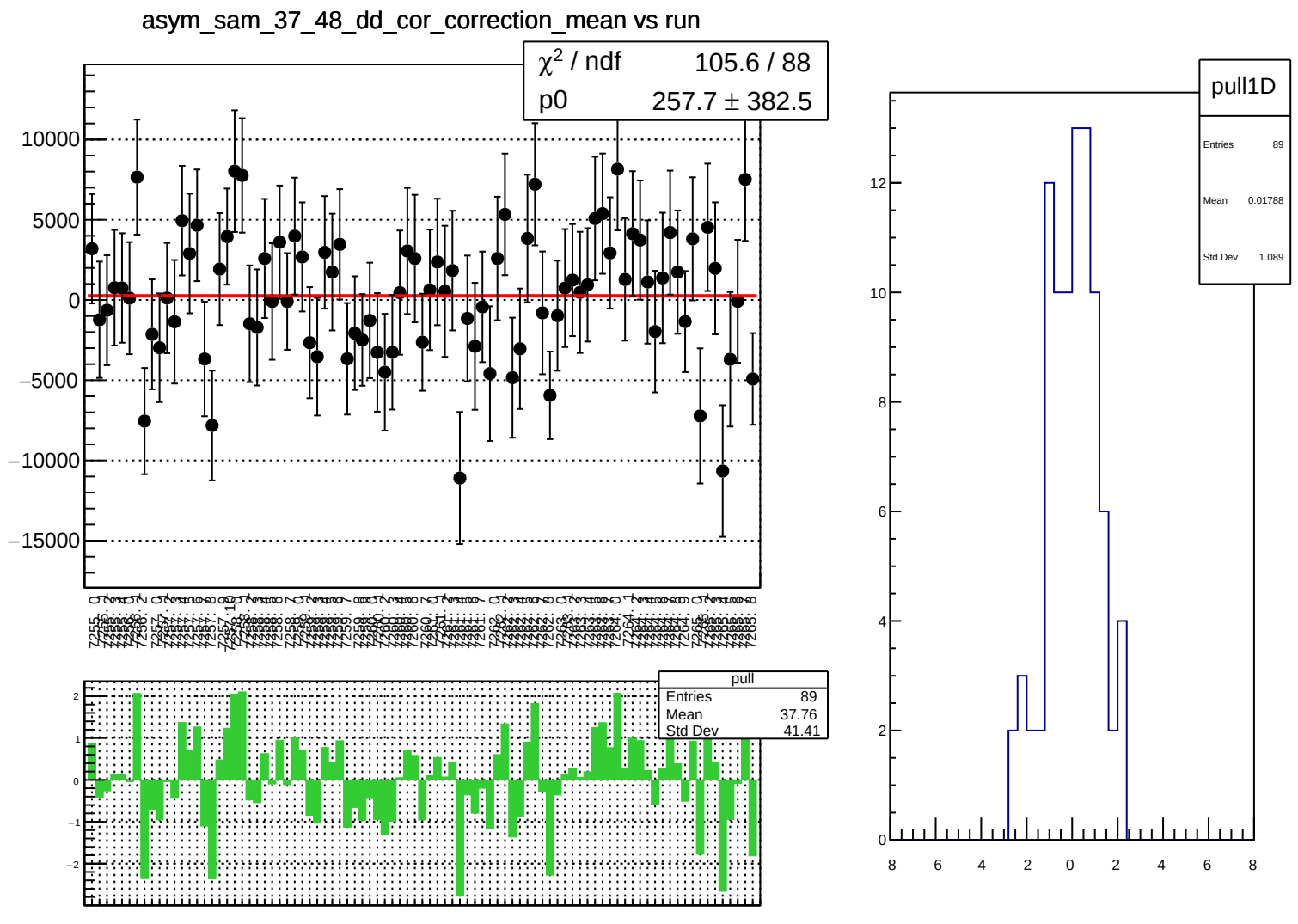

pull1D
Entries 89
Mean 0.01787
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

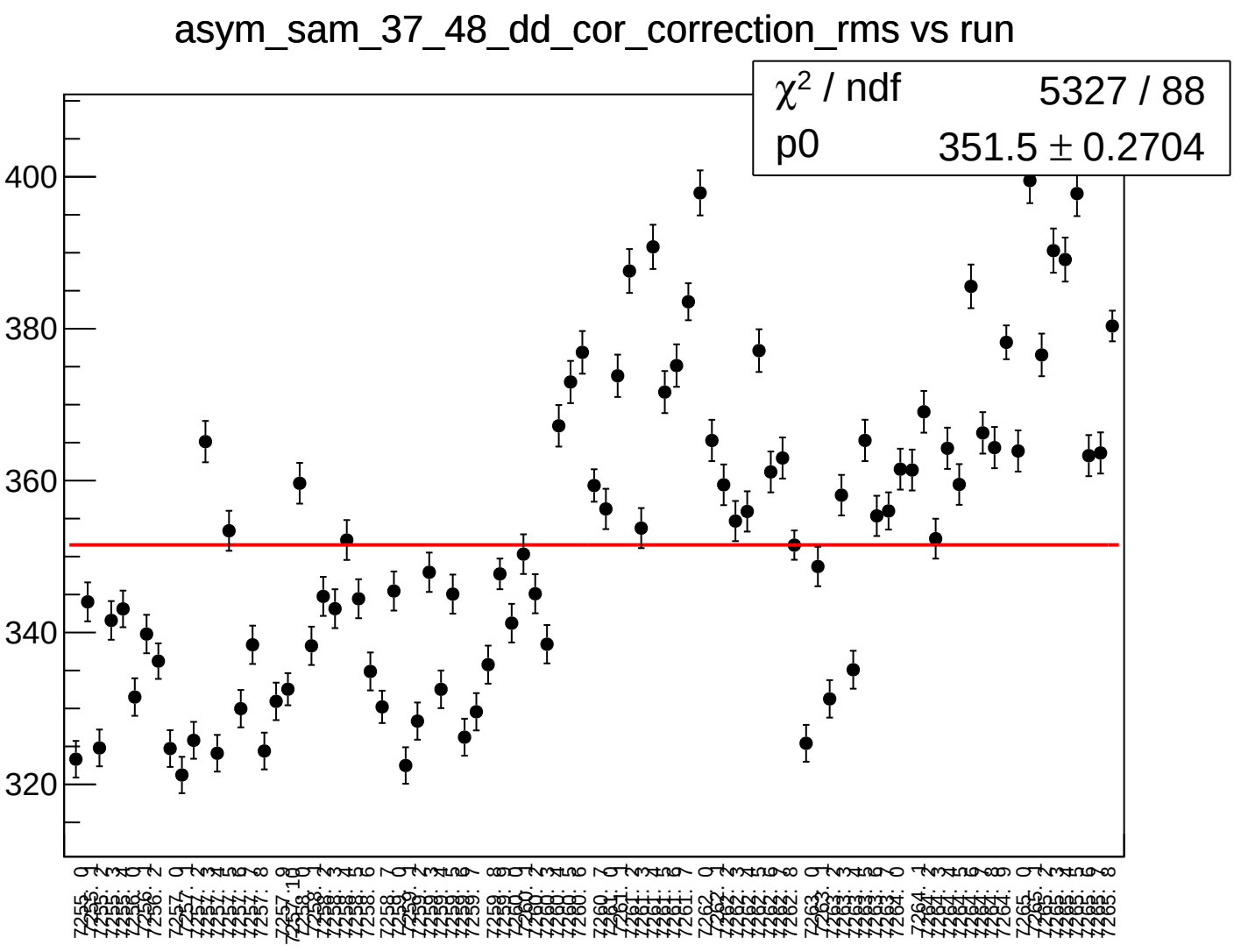

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 5327 / 88
p0 351.5 ± 0.2704
400
380
360
340
320

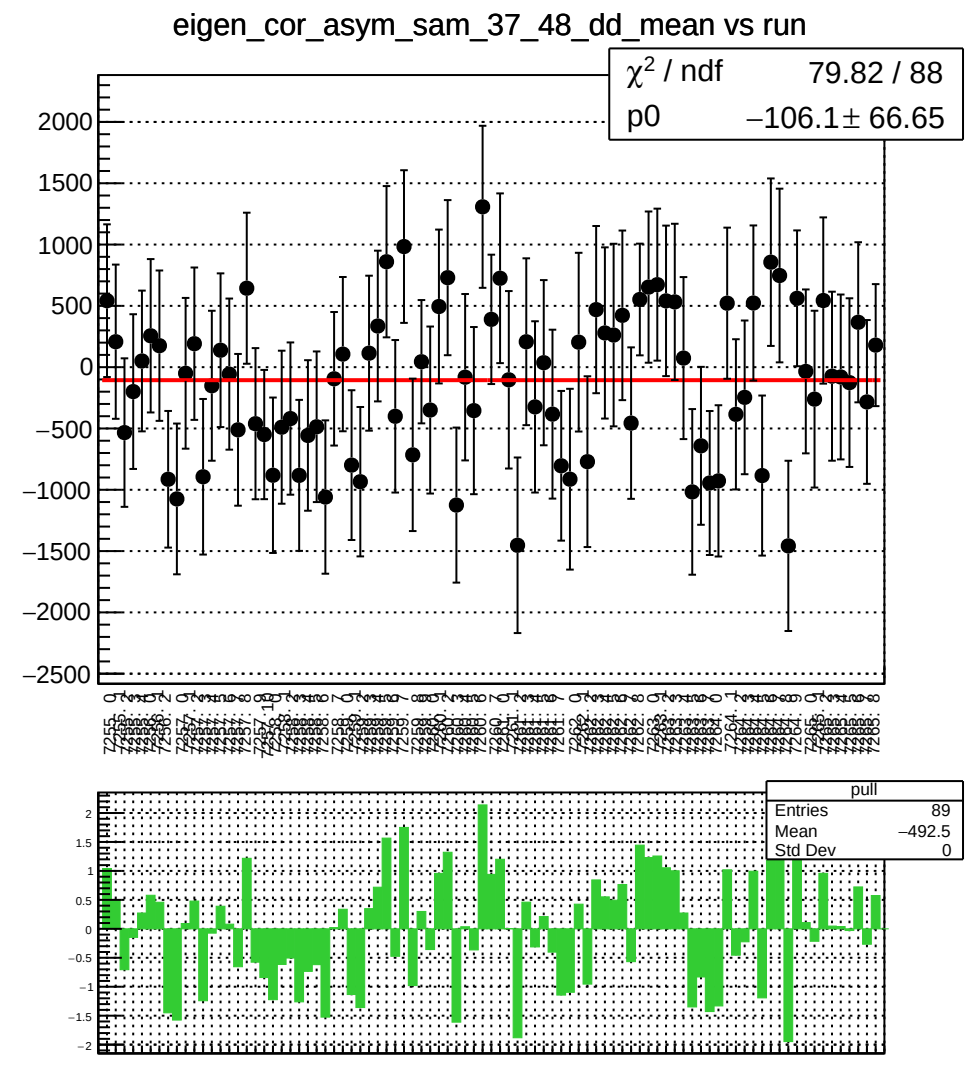

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 79.82 / 88
p0 −106.1± 66.65
pull
Entries 89
Mean −492.5
Std Dev 0

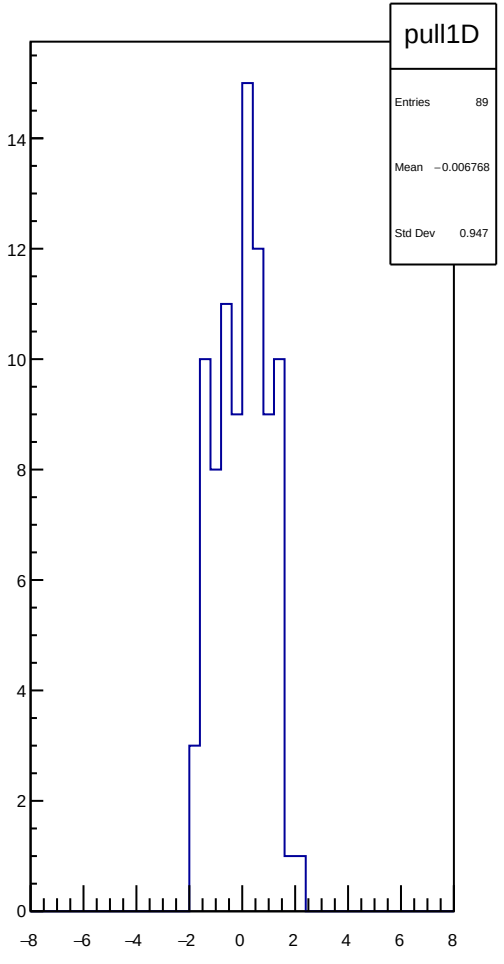

pull1D
Entries 89
Mean −0.006768
Std Dev 0.947

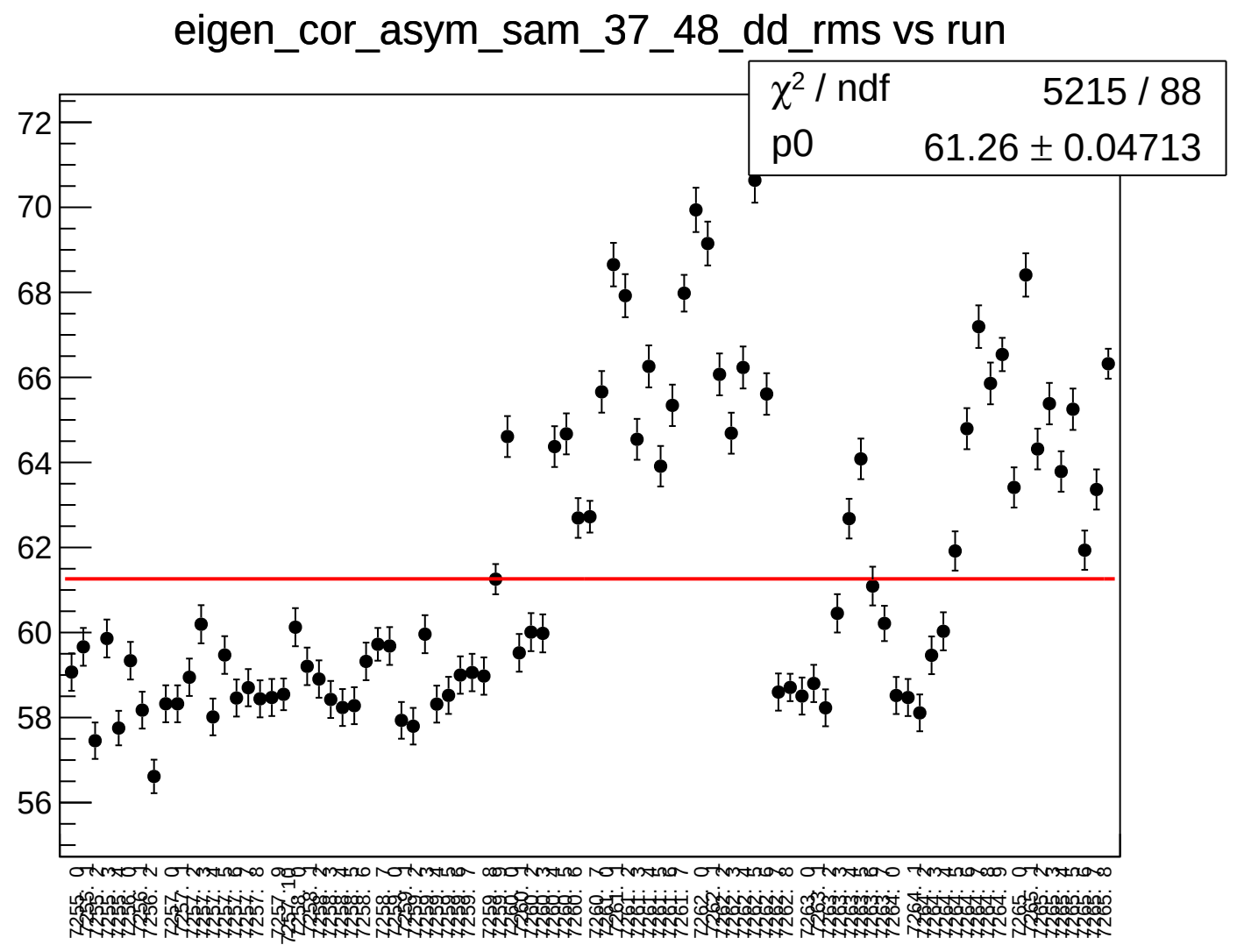

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 5215 / 88
p0 61.26 ± 0.04713
72
70
68
66
64
62
60
58
56

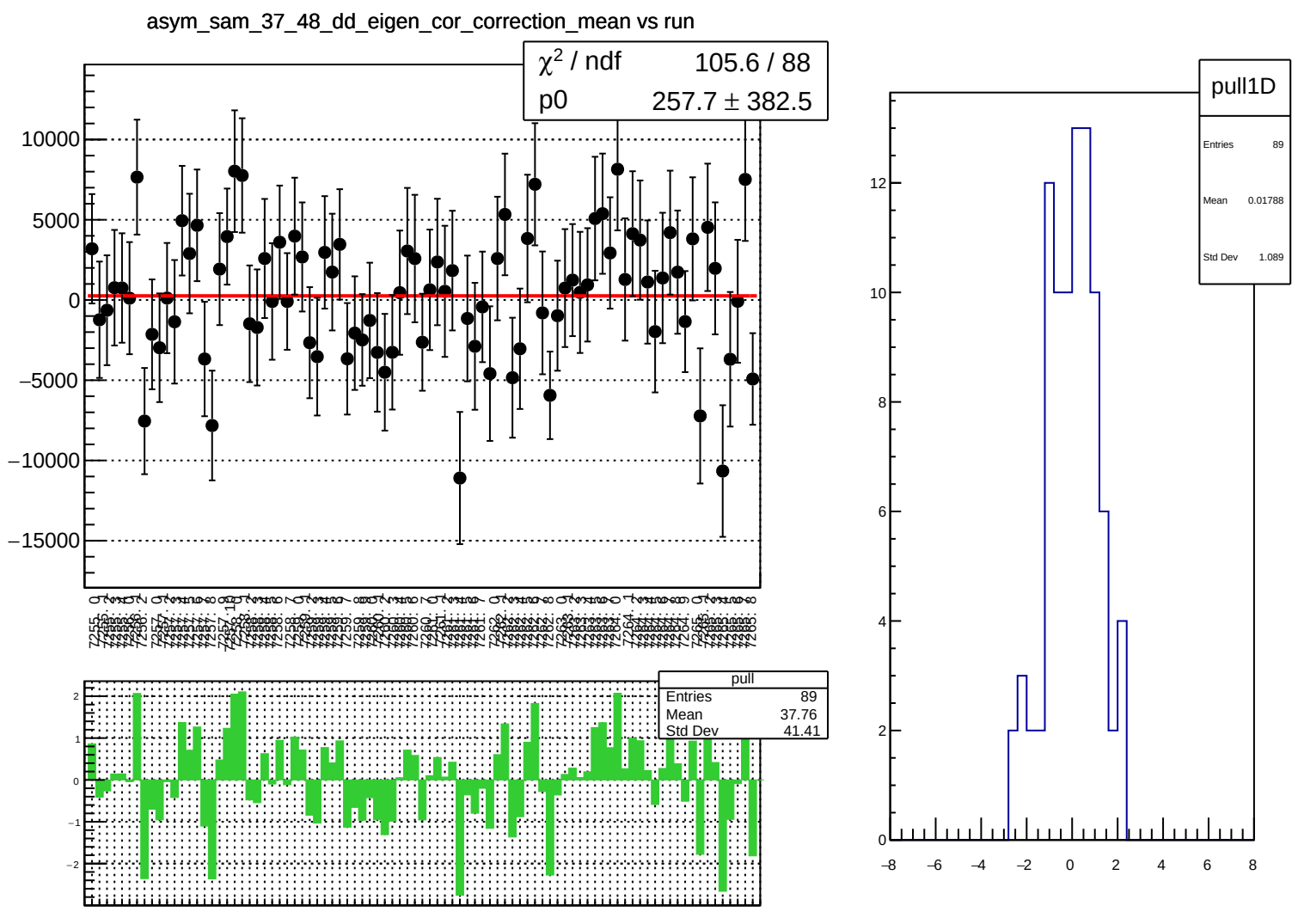

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 105.6 / 88
p0 257.7 ± 382.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 37.76
Std Dev 41.41
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01788
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

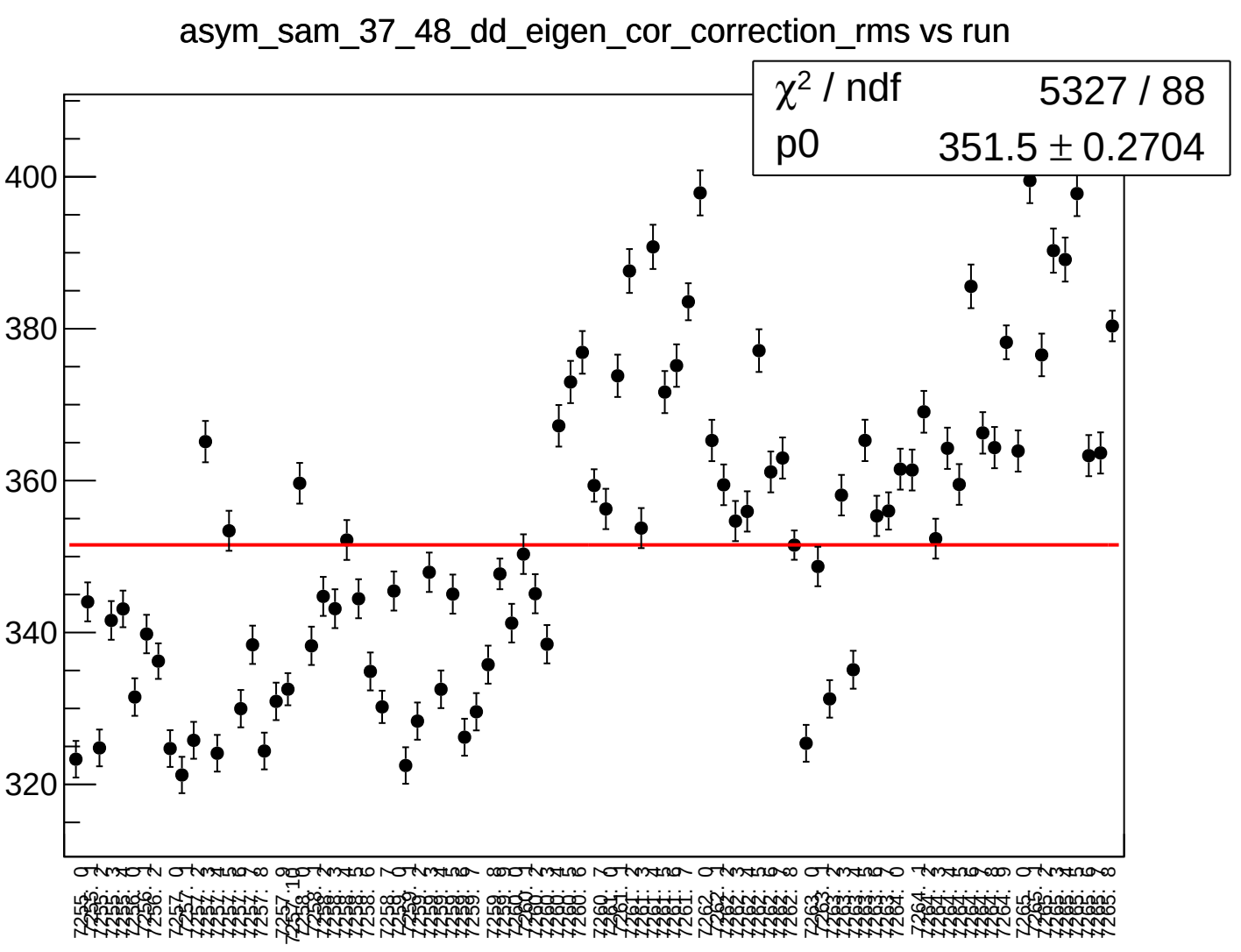

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 5327 / 88
p0 351.5 ± 0.2704
400
380
360
340
320

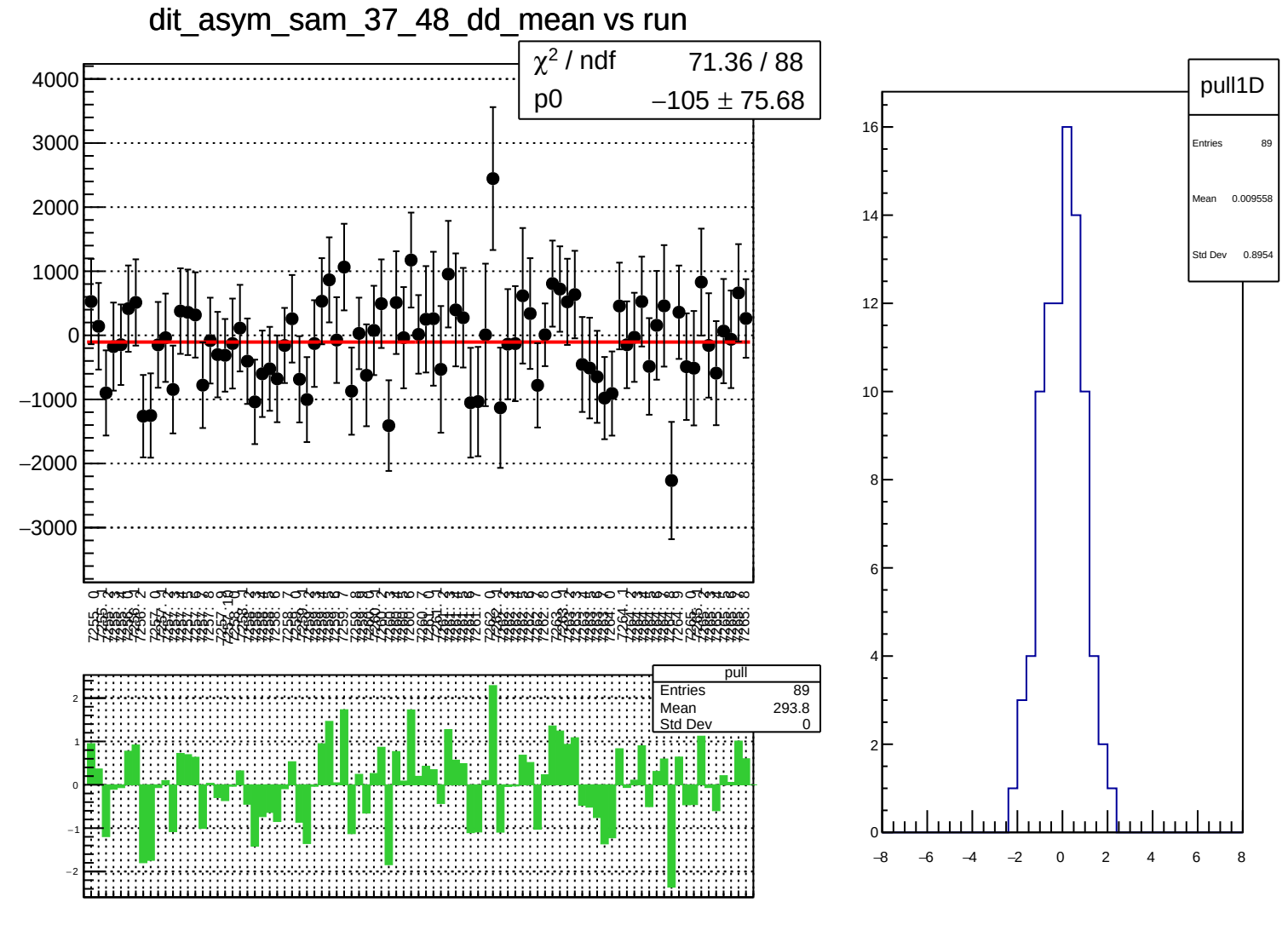

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 79.82 / 88
p0 −106.1± 66.65
pull
Entries 89
Mean −492.5
Std Dev 0

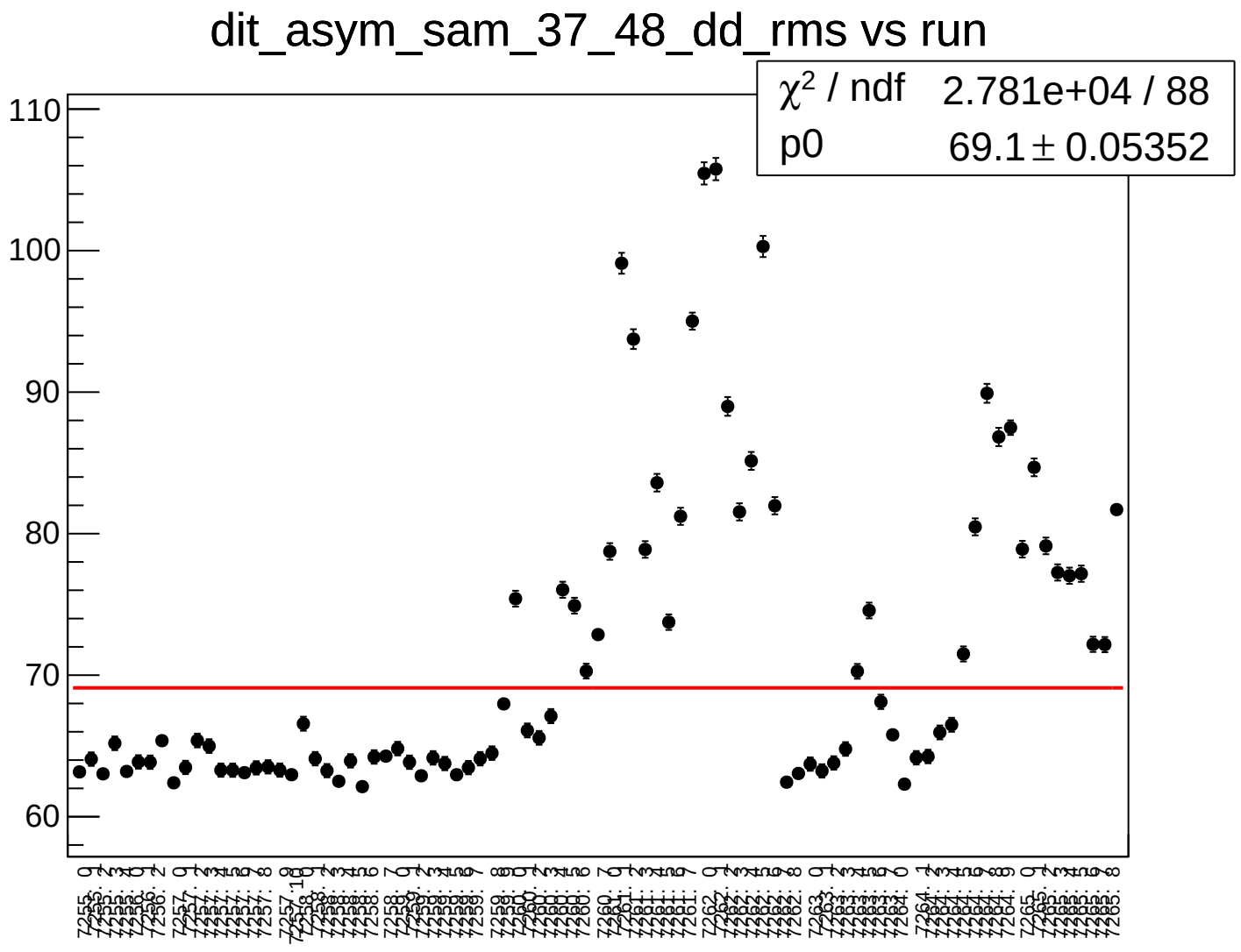

pull1D
Entries 89
Mean −0.006768
Std Dev 0.947

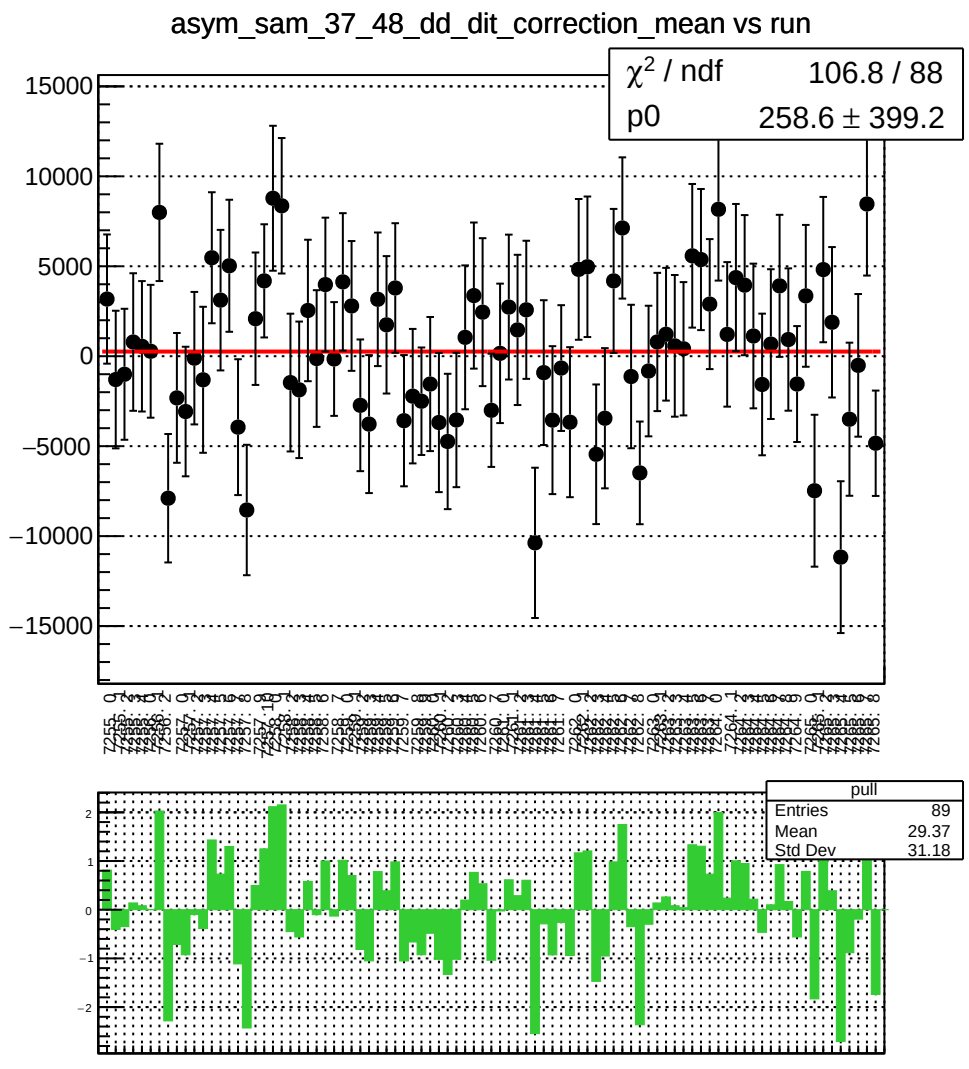

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 5215 / 88
p0 61.26 ± 0.04713
72
70
68
66
64
62
60
58
56

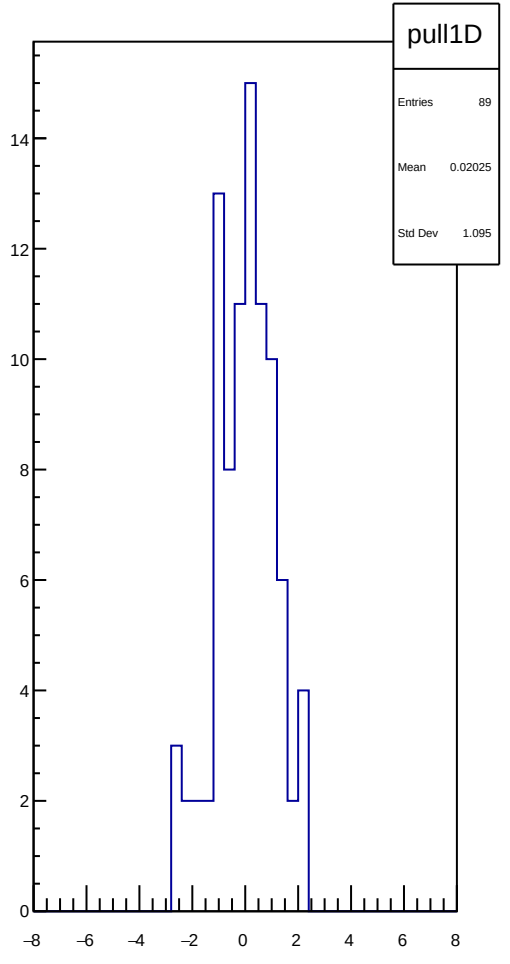

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.6 / 88
p0 257.7 ± 382.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 37.76
Std Dev 41.41
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01788
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

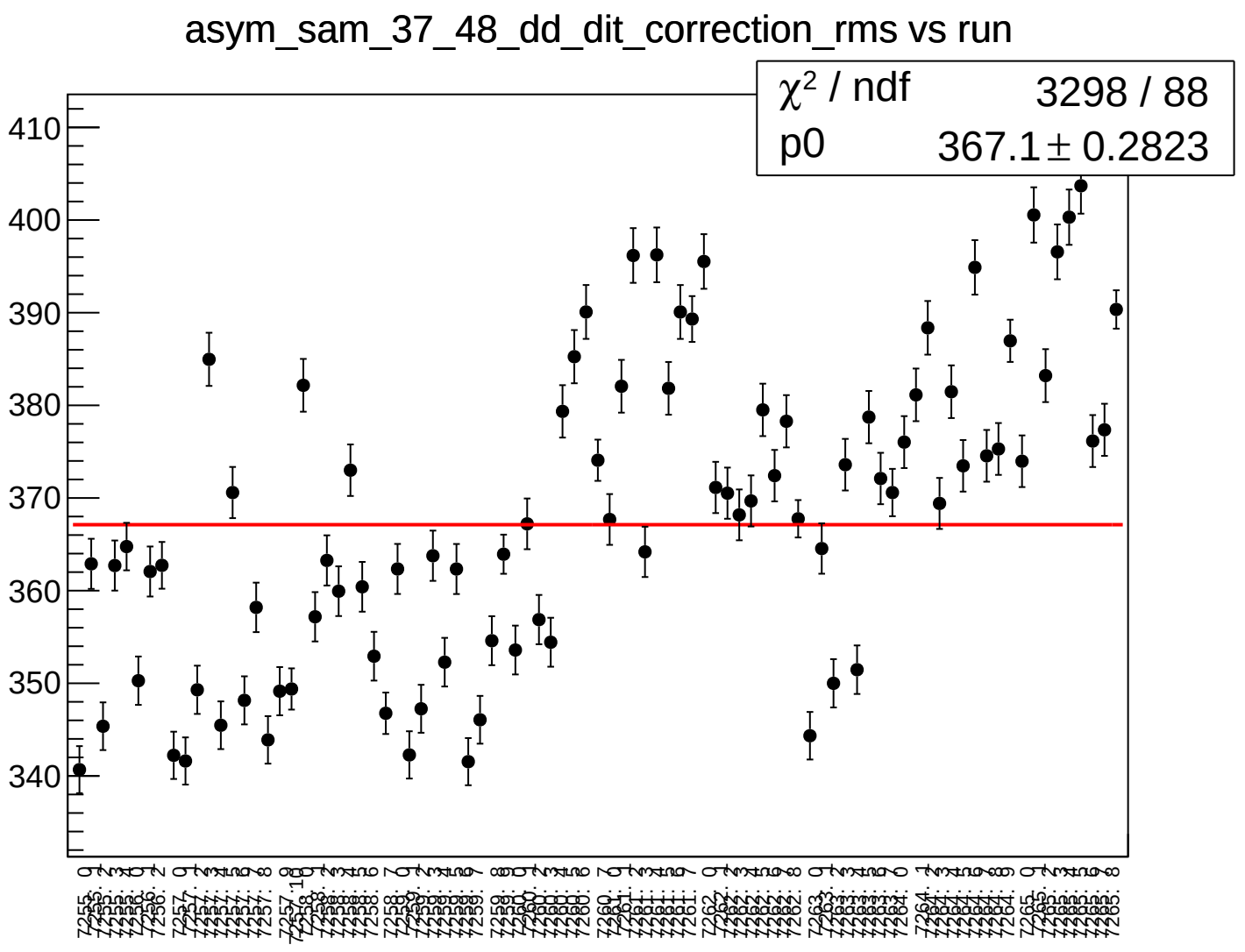

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5327 / 88
p0 351.5 ± 0.2704
400
380
360
340
320

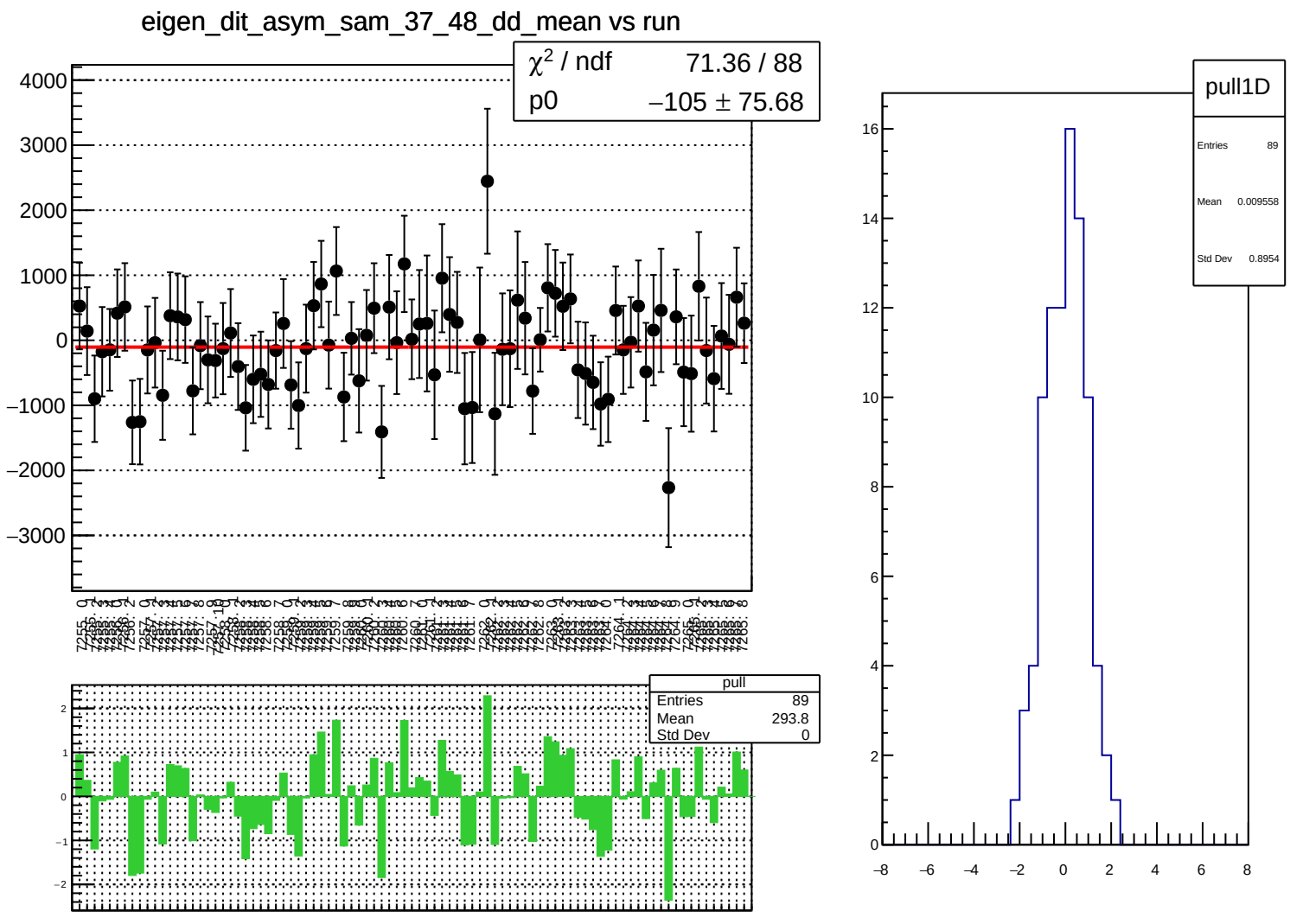

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 71.36 / 88
p0 −105 ± 75.68
pull
Entries 89
Mean 293.8
Std Dev 0
pull1D
Entries 89
Mean 0.009558
Std Dev 0.8954

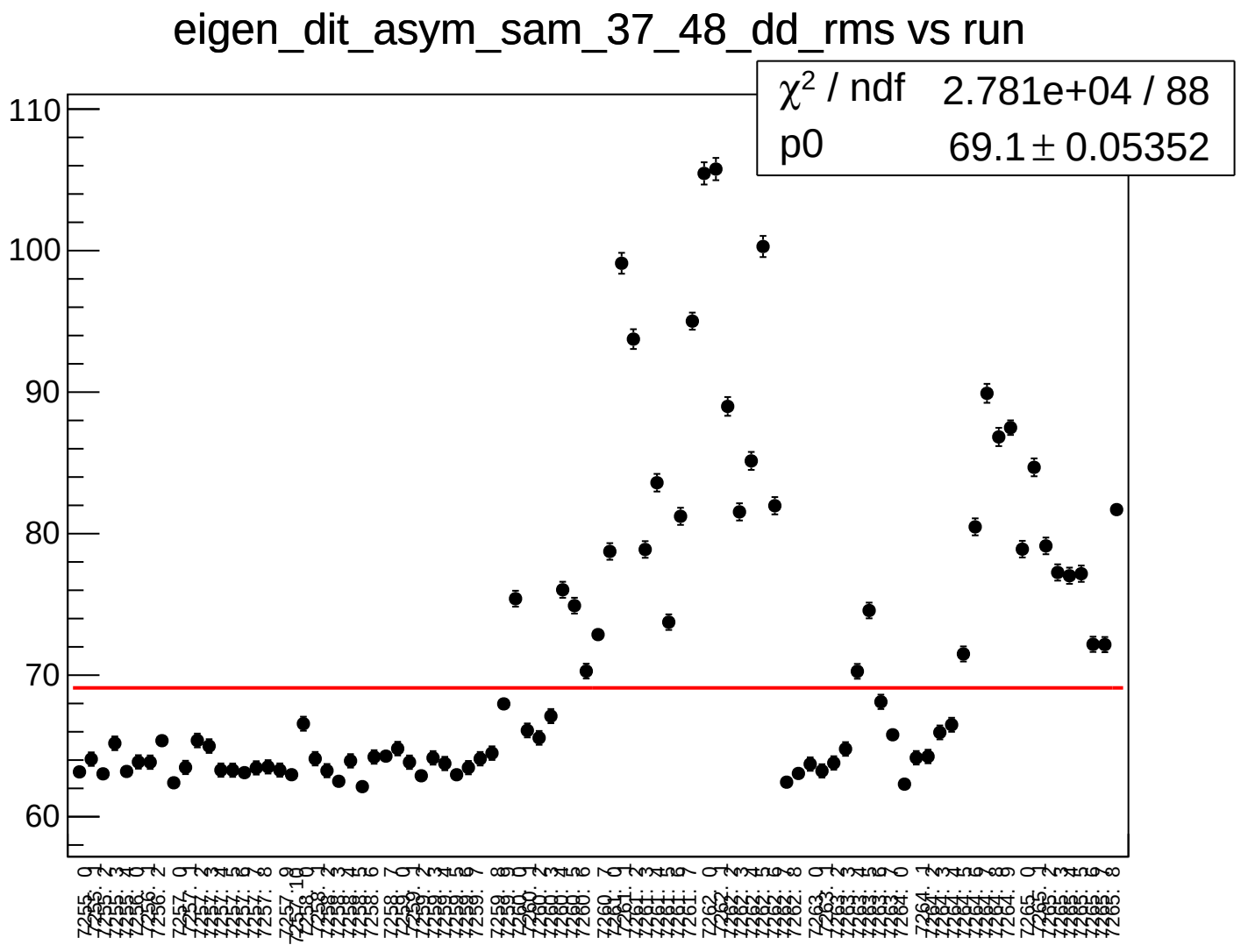

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 2.781e+04 / 88
p0 69.1 ± 0.05352
110
100
90
80
70
60

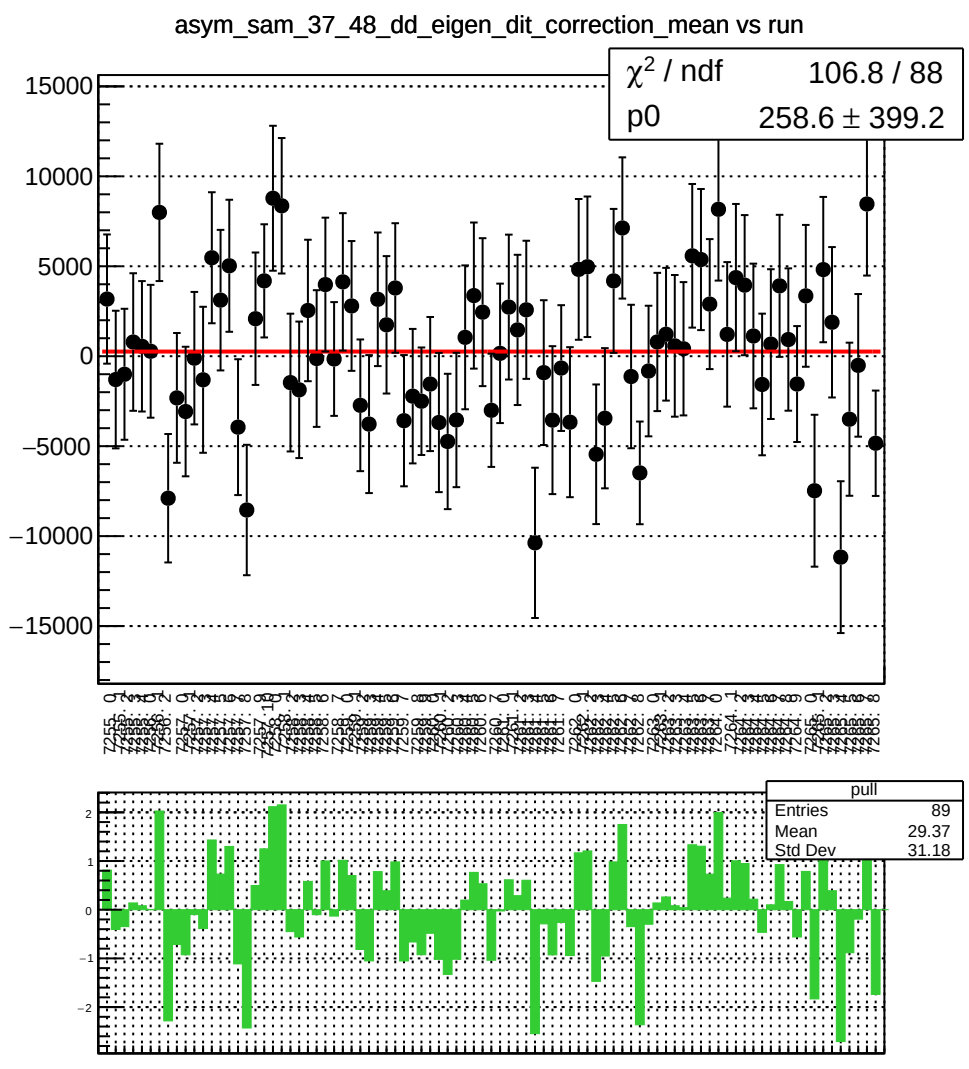

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 106.8 / 88
p0 258.6 ± 399.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 29.37
Std Dev 31.18
2
1
0
−1
−2

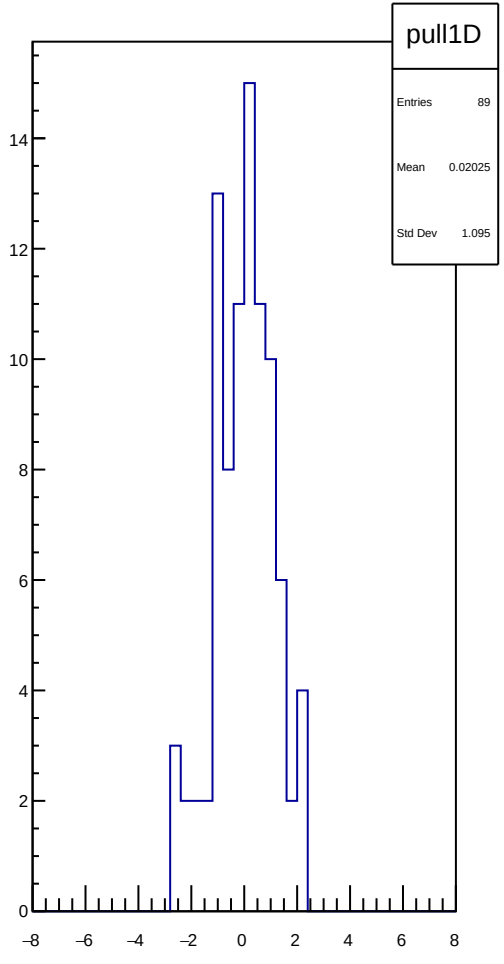

pull1D
Entries 89
Mean 0.02025
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

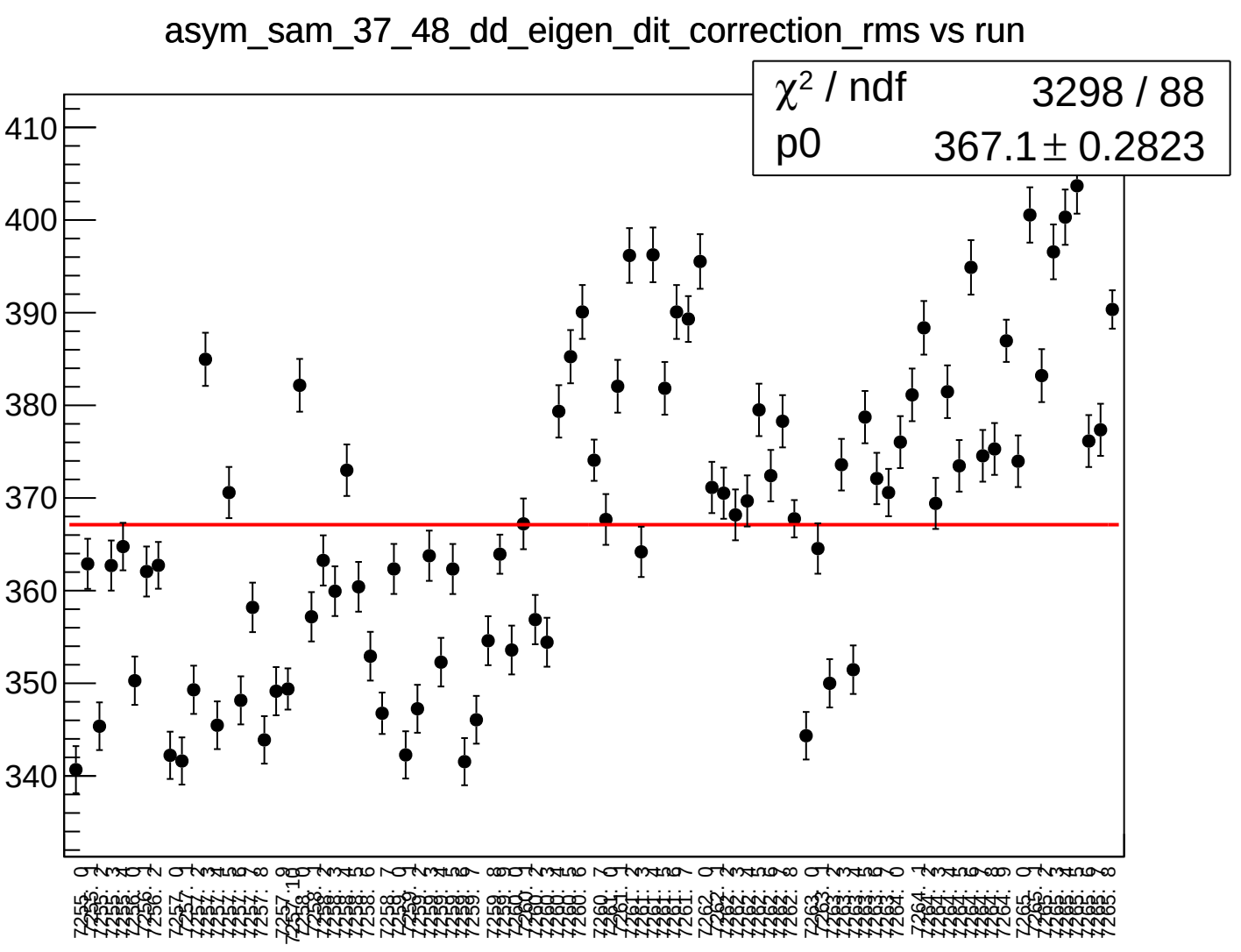

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 3298 / 88
p0 367.1 ± 0.2823
410
400
390
380
370
360
350
340

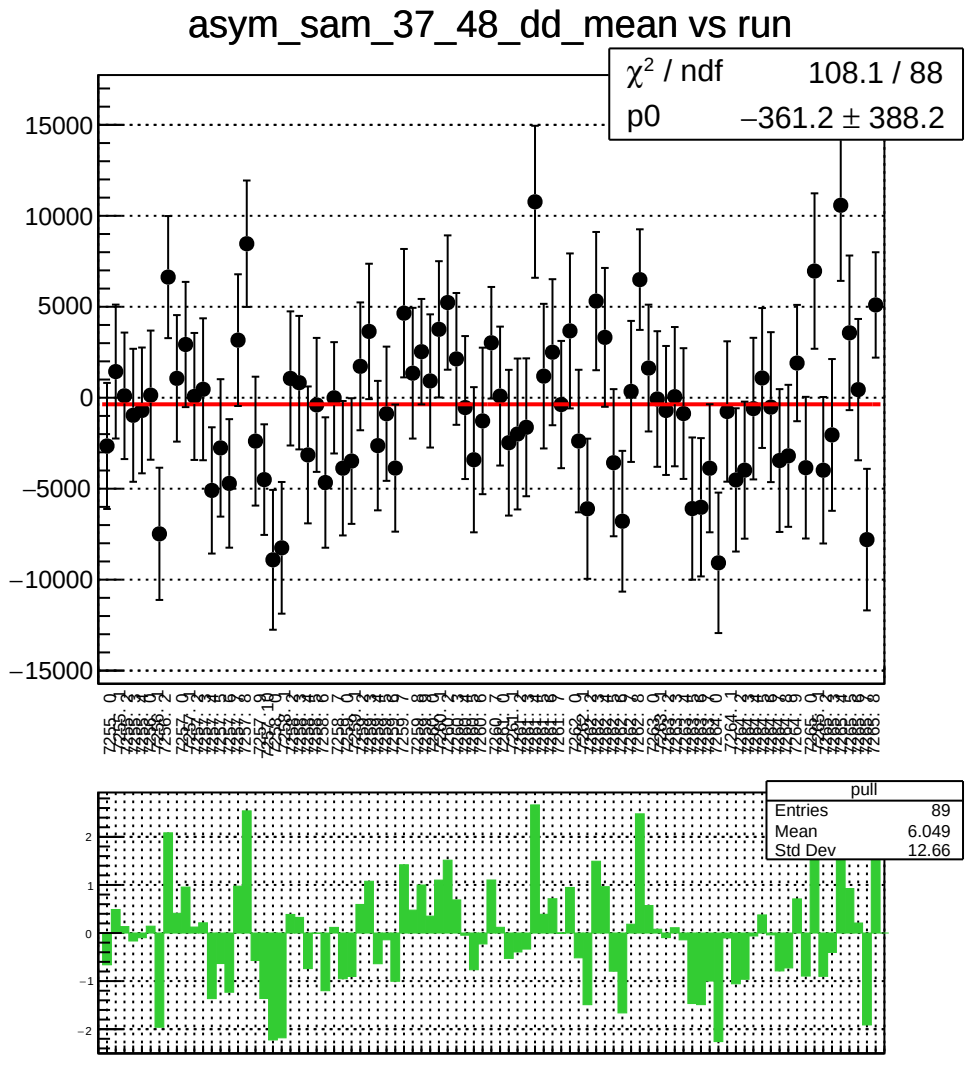

eigen_dit_asym_sam_37_48_dd_mean vs run
χ^2 / ndf 71.36 / 88
p0 −105 ± 75.68
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 293.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.009558
Std Dev 0.8954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

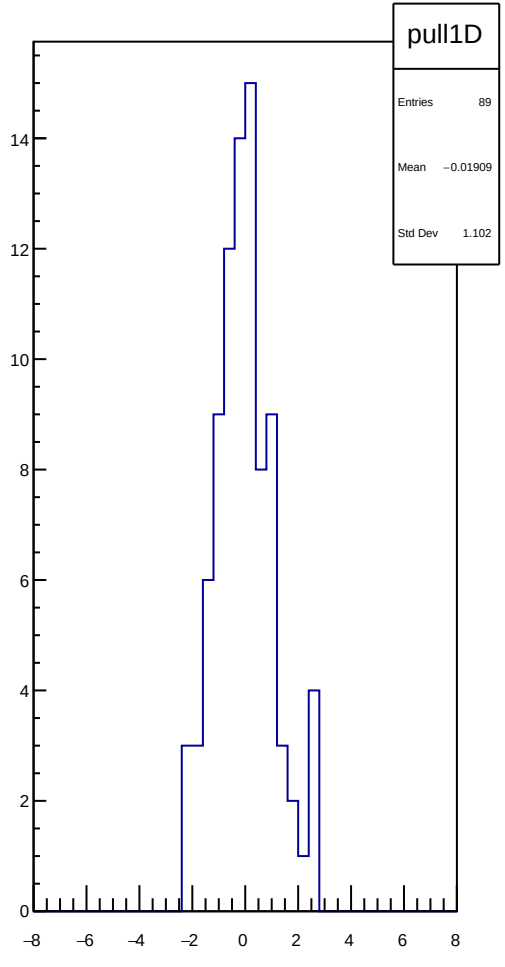

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 2.781e+04 / 88
p0 69.1 ± 0.05352
110
100
90
80
70
60

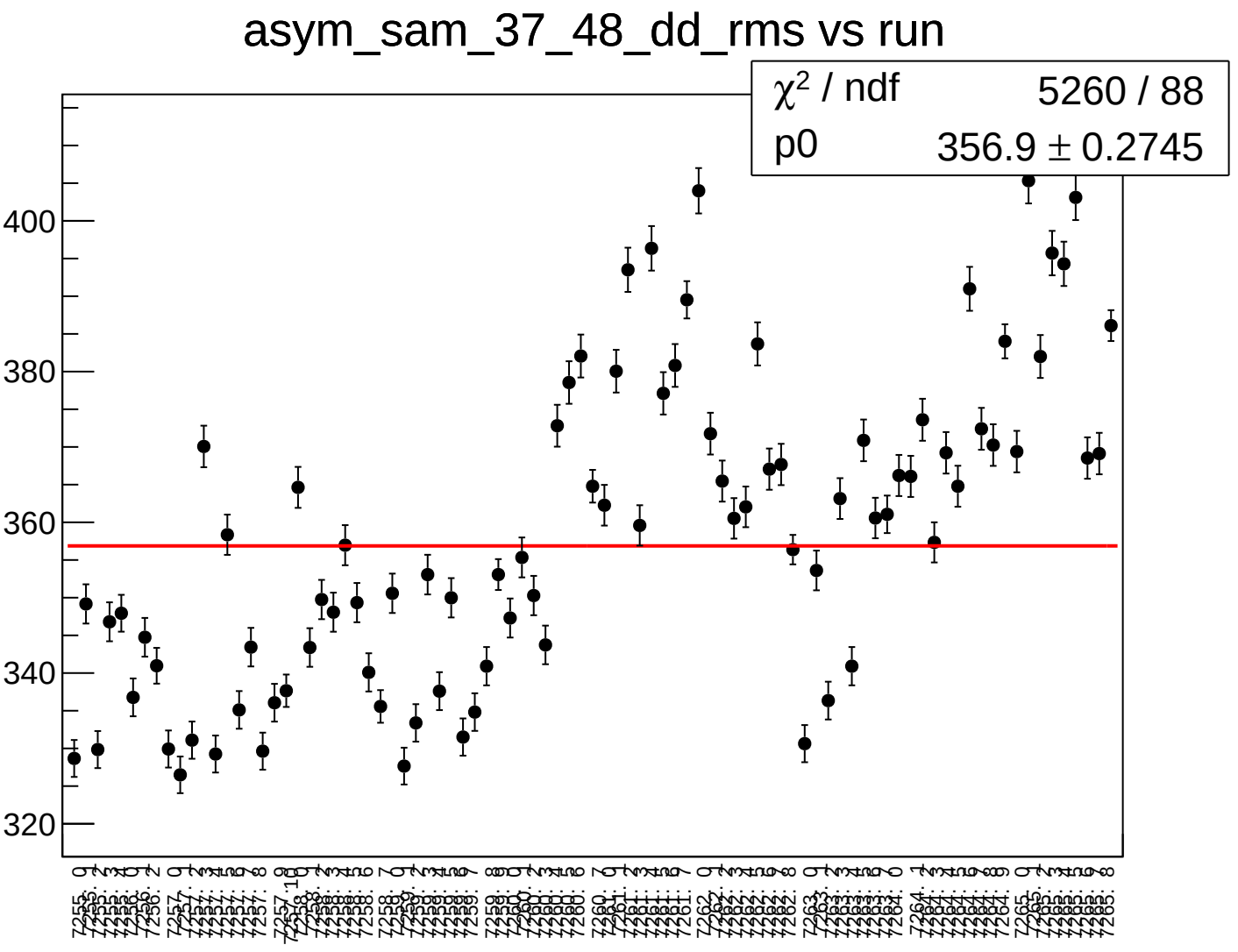

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 106.8 / 88
p0 258.6 ± 399.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 29.37
Std Dev 31.18
2
1
0
−1
−2

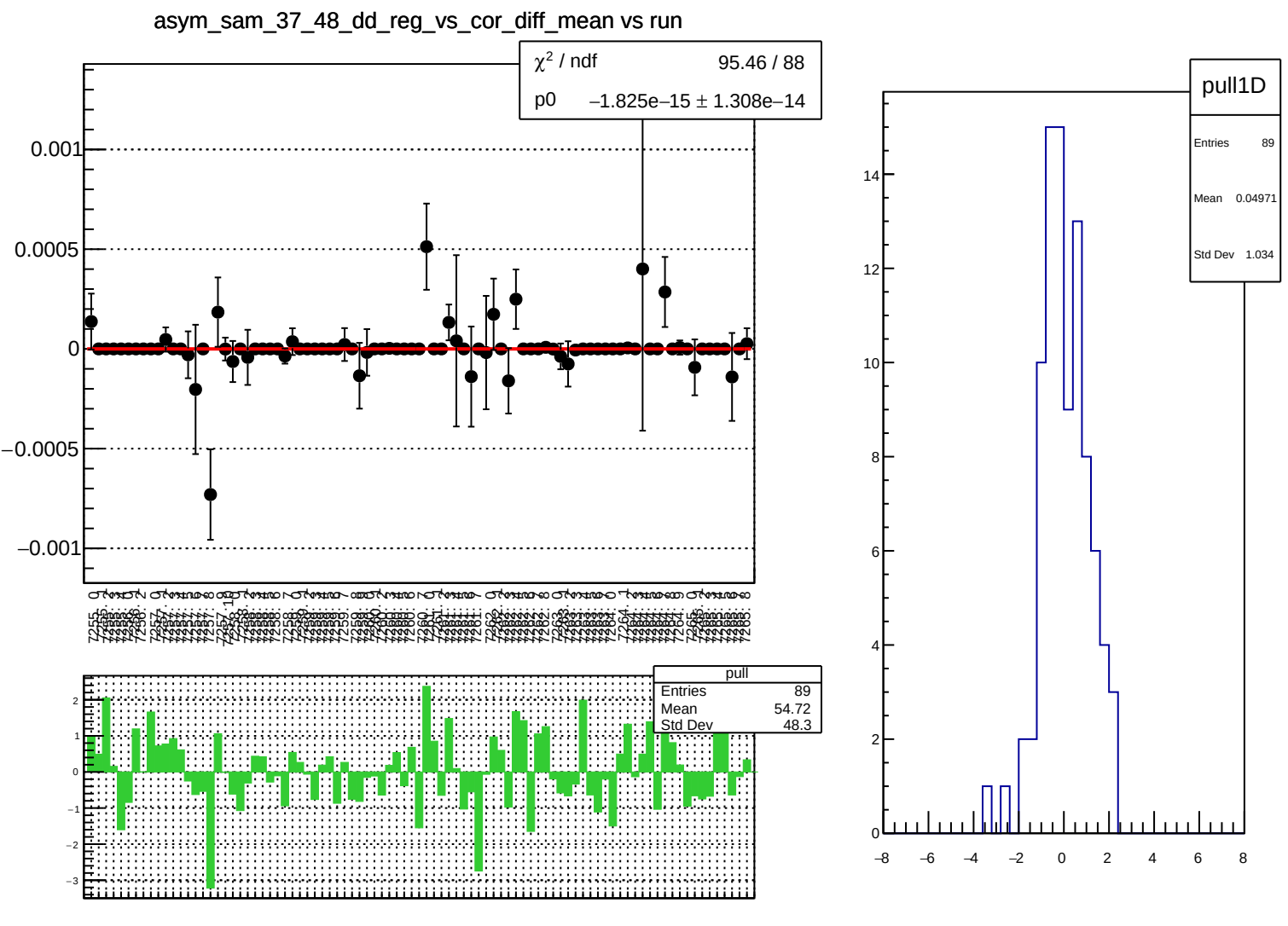

pull1D
Entries 89
Mean 0.02025
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

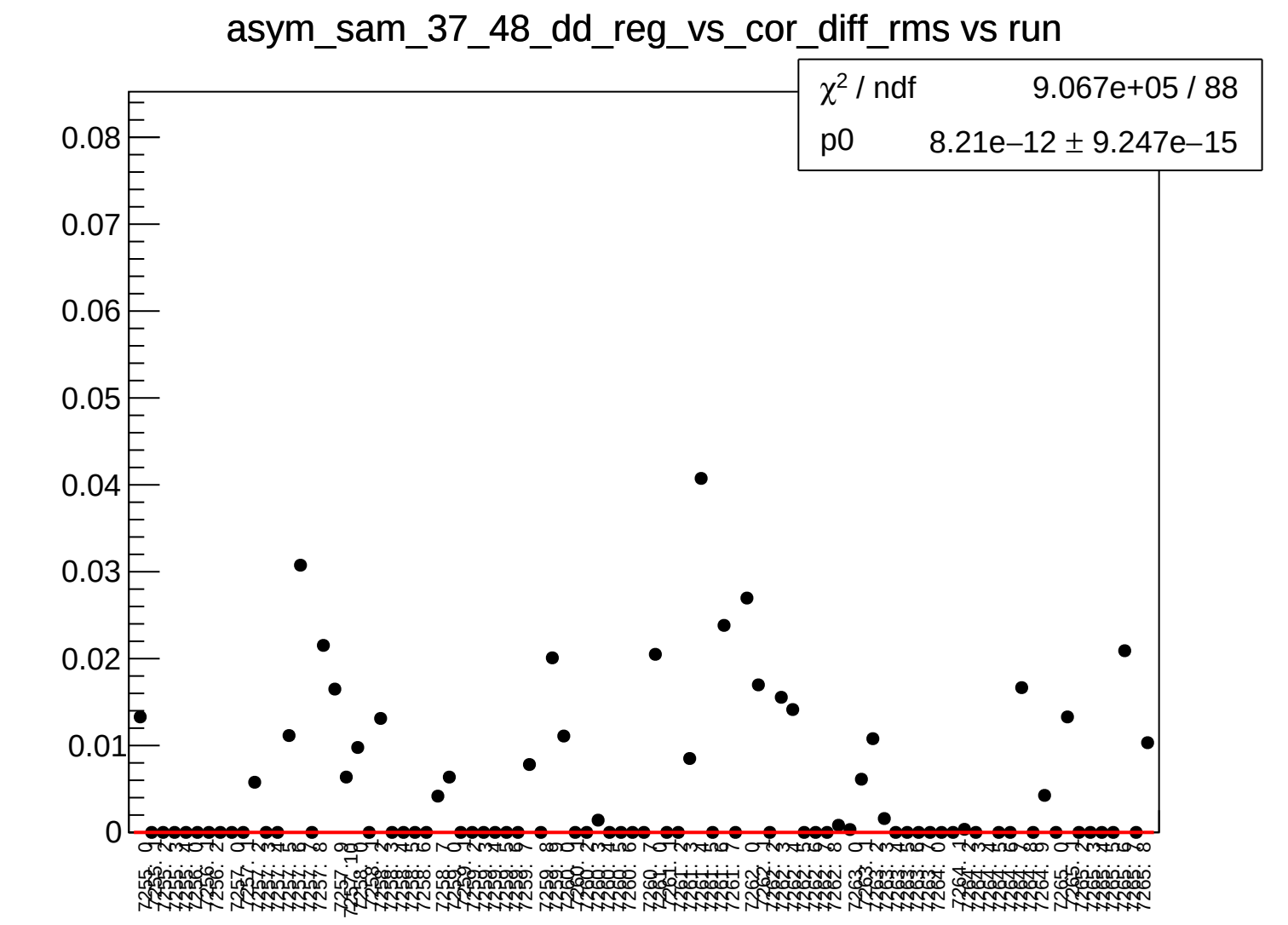

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3298 / 88
p0 367.1 ± 0.2823
410
400
390
380
370
360
350
340

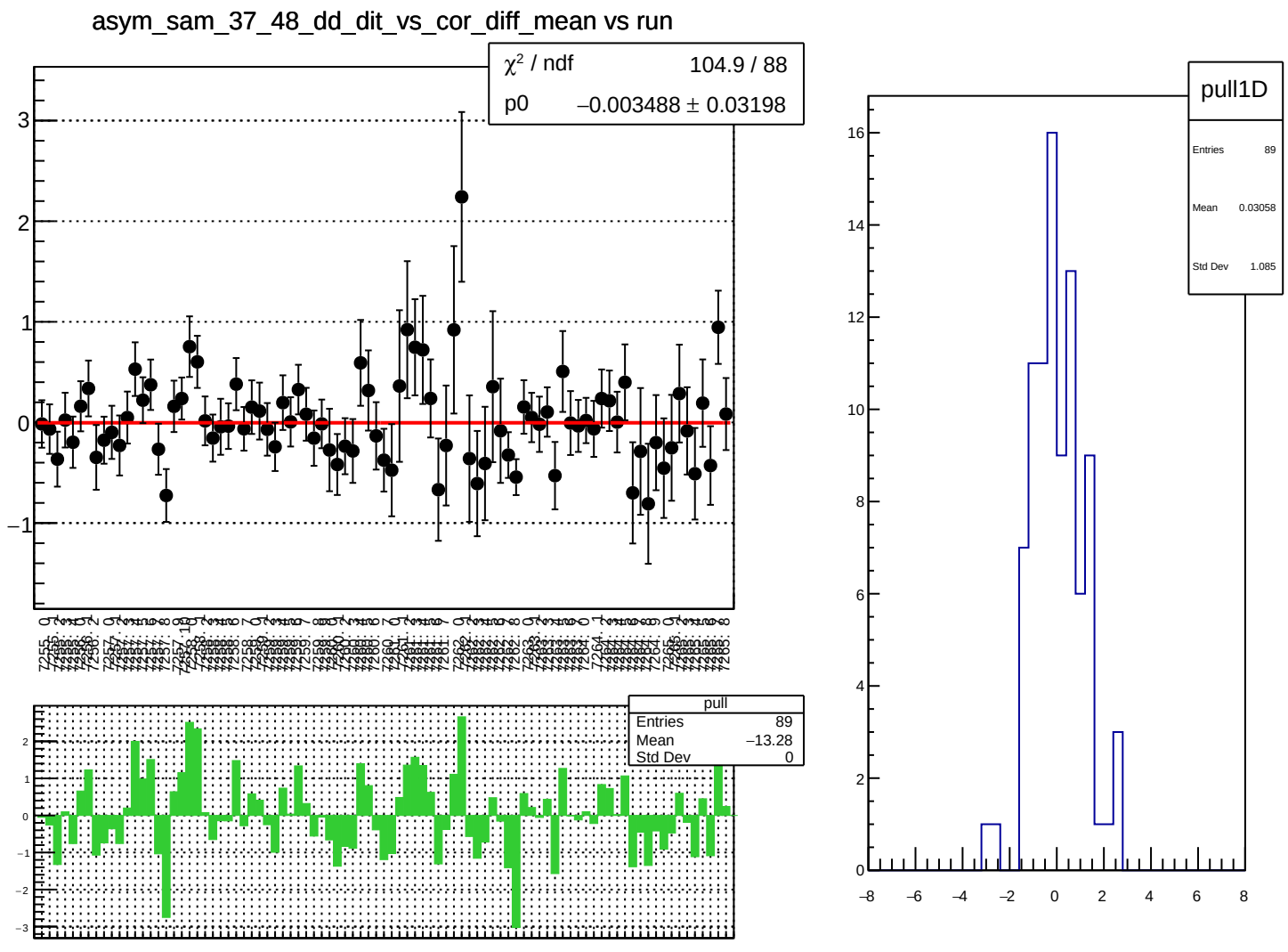

asym_sam_37_48_dd_mean vs run
χ² / ndf 108.1 / 88
p0 −361.2 ± 388.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 6.049
Std Dev 12.66
2
1
0
−1
−2

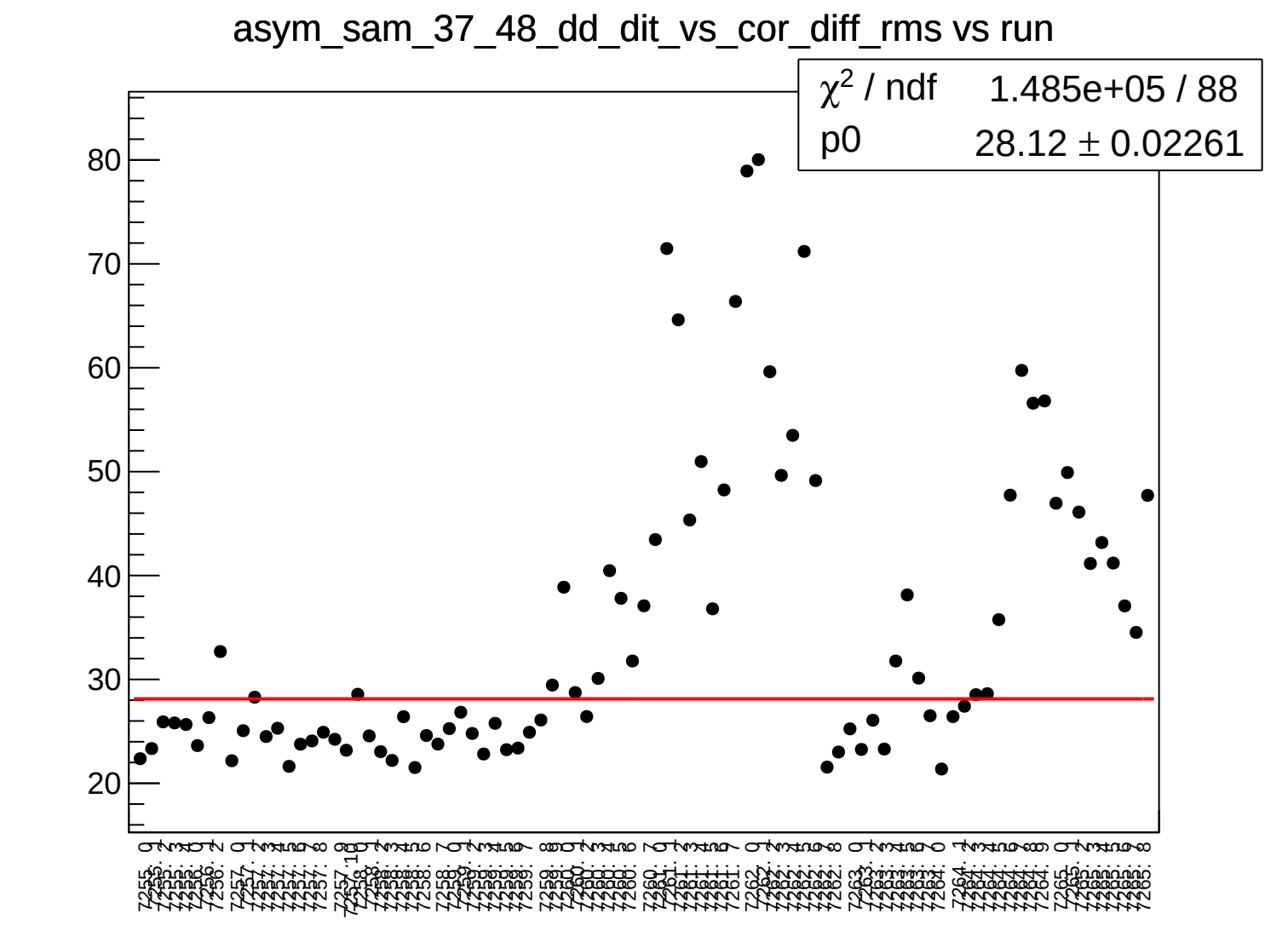

pull1D
Entries 89
Mean −0.01909
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

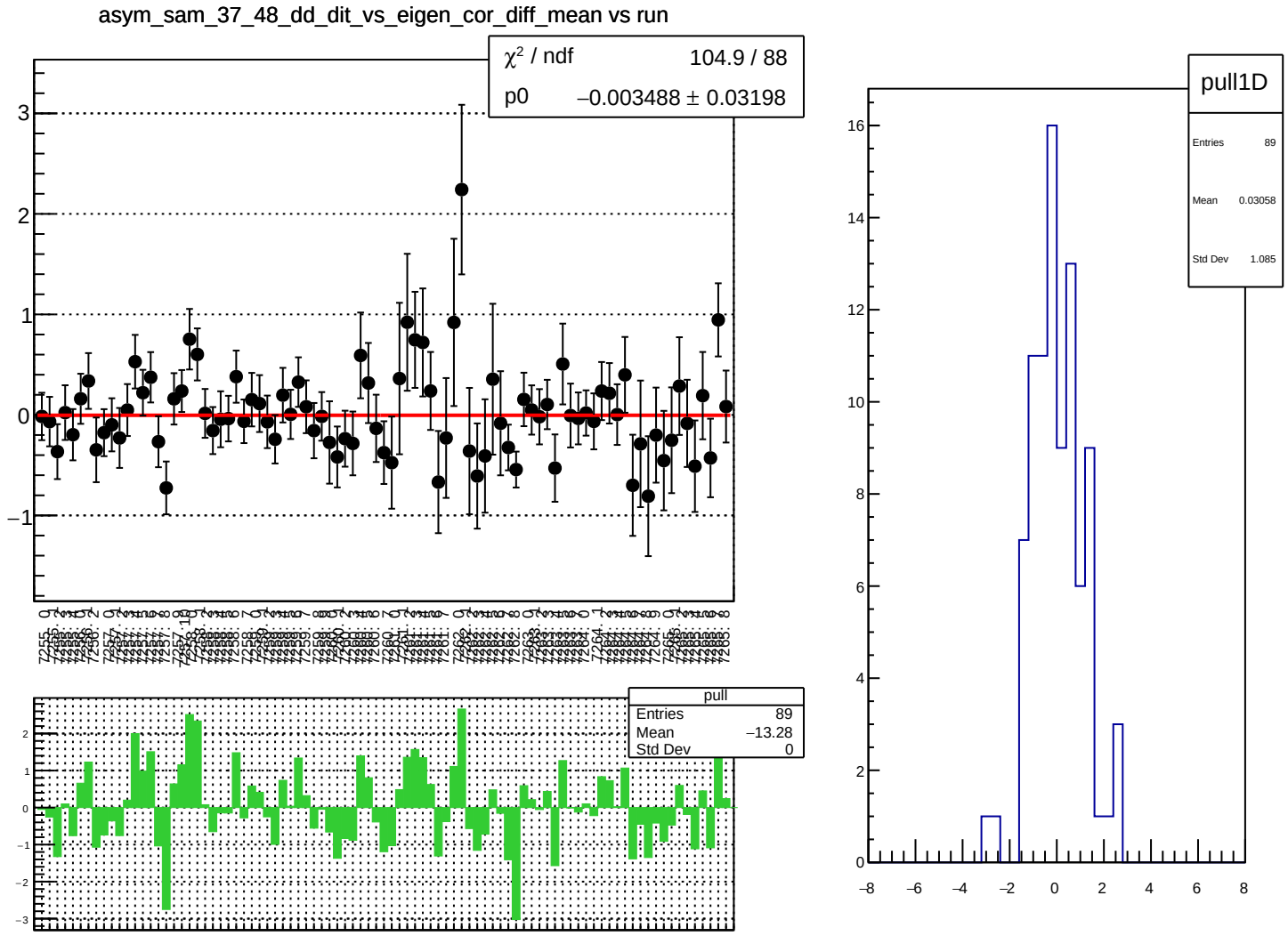

asym_sam_37_48_dd_rms vs run
χ² / ndf 5260 / 88
p0 356.9 ± 0.2745
400
380
360
340
320

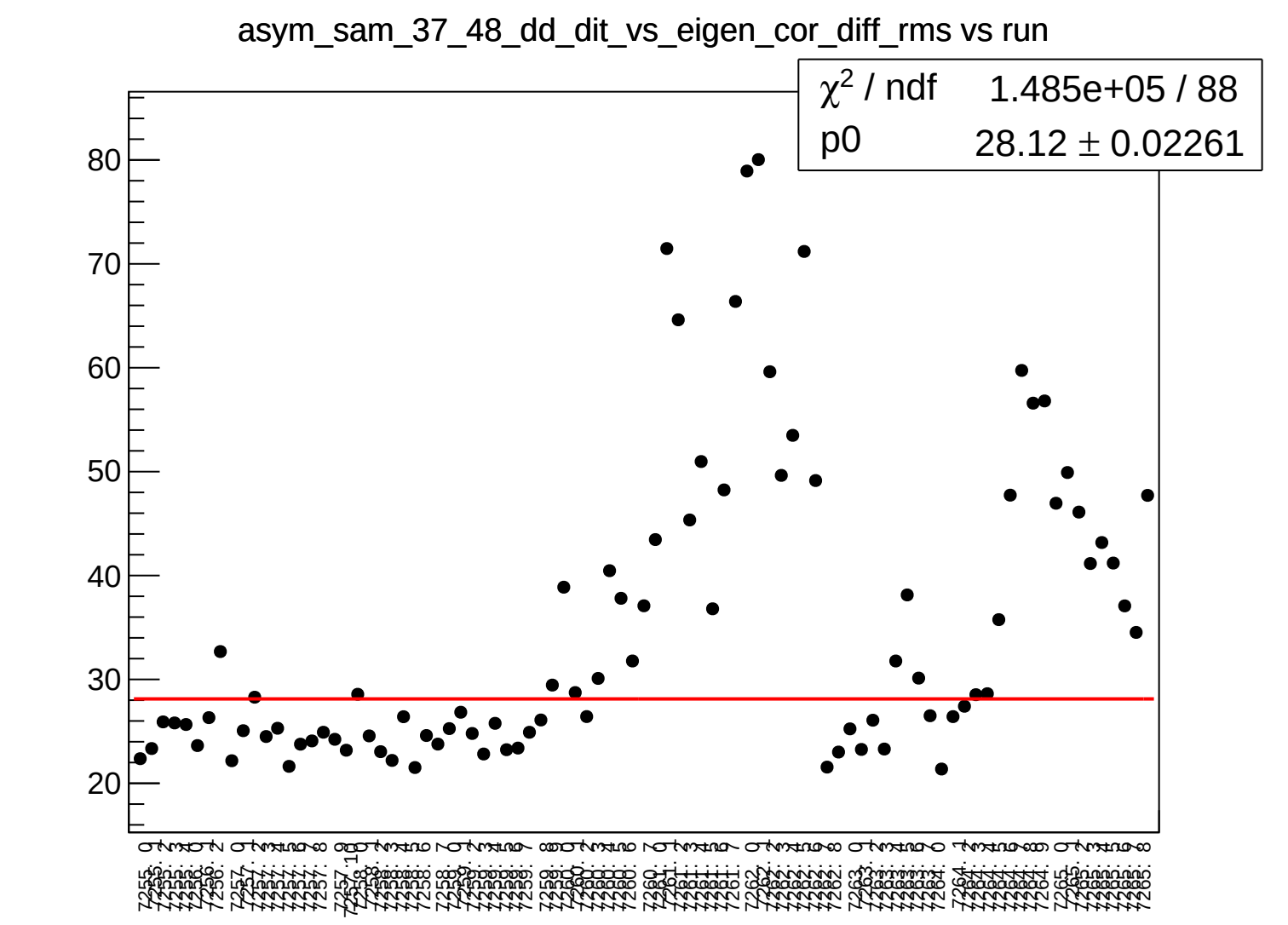

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.46 / 88
p0 −1.825e−15 ± 1.308e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 54.72
Std Dev 48.3
pull1D
Entries 89
Mean 0.04971
Std Dev 1.034

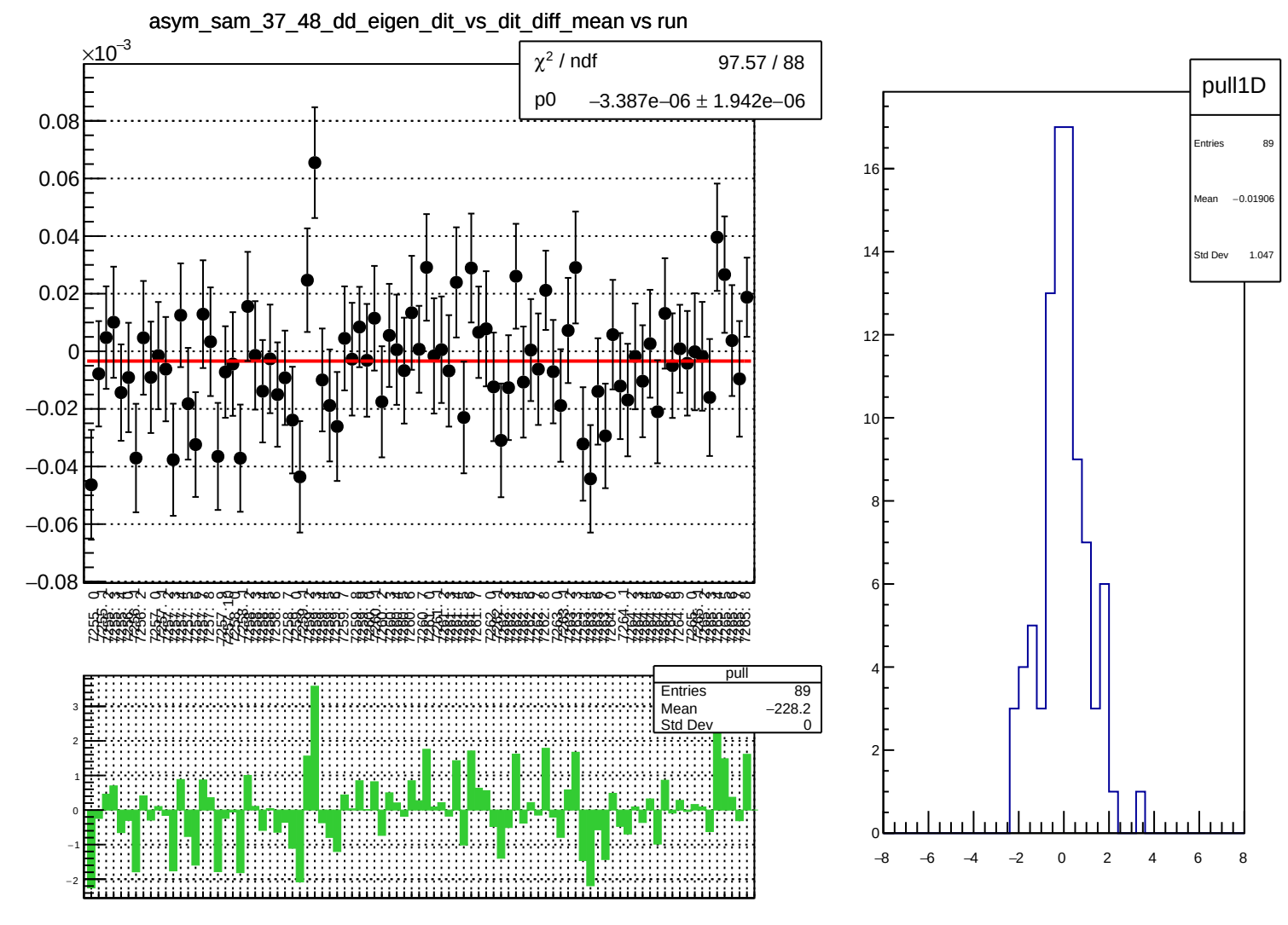

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.067e+05 / 88
p0 8.21e−12 ± 9.247e−15
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

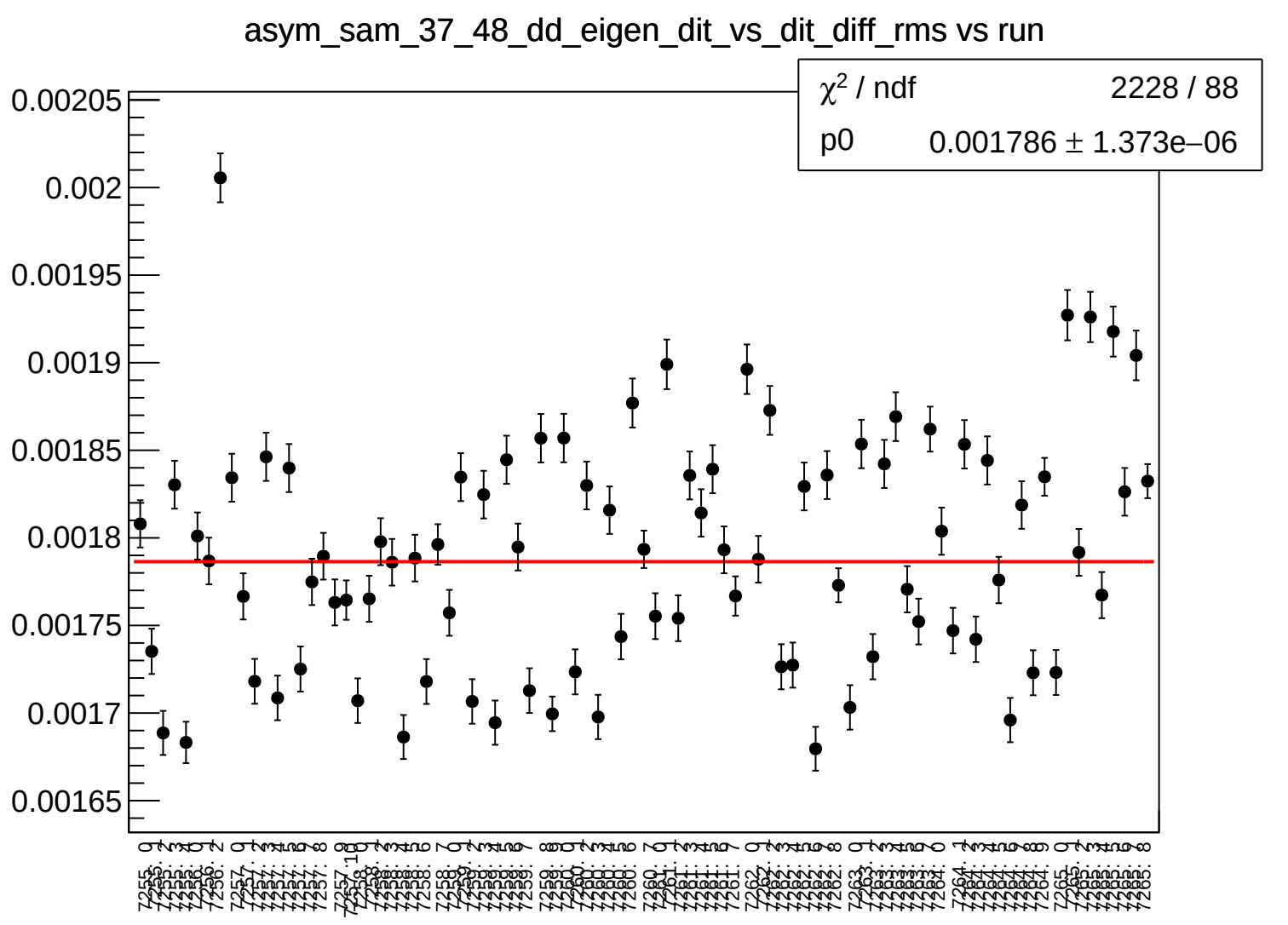

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 88
p0 −0.003488 ± 0.03198
pull
Entries 89
Mean −13.28
Std Dev 0
pull1D
Entries 89
Mean 0.03058
Std Dev 1.085

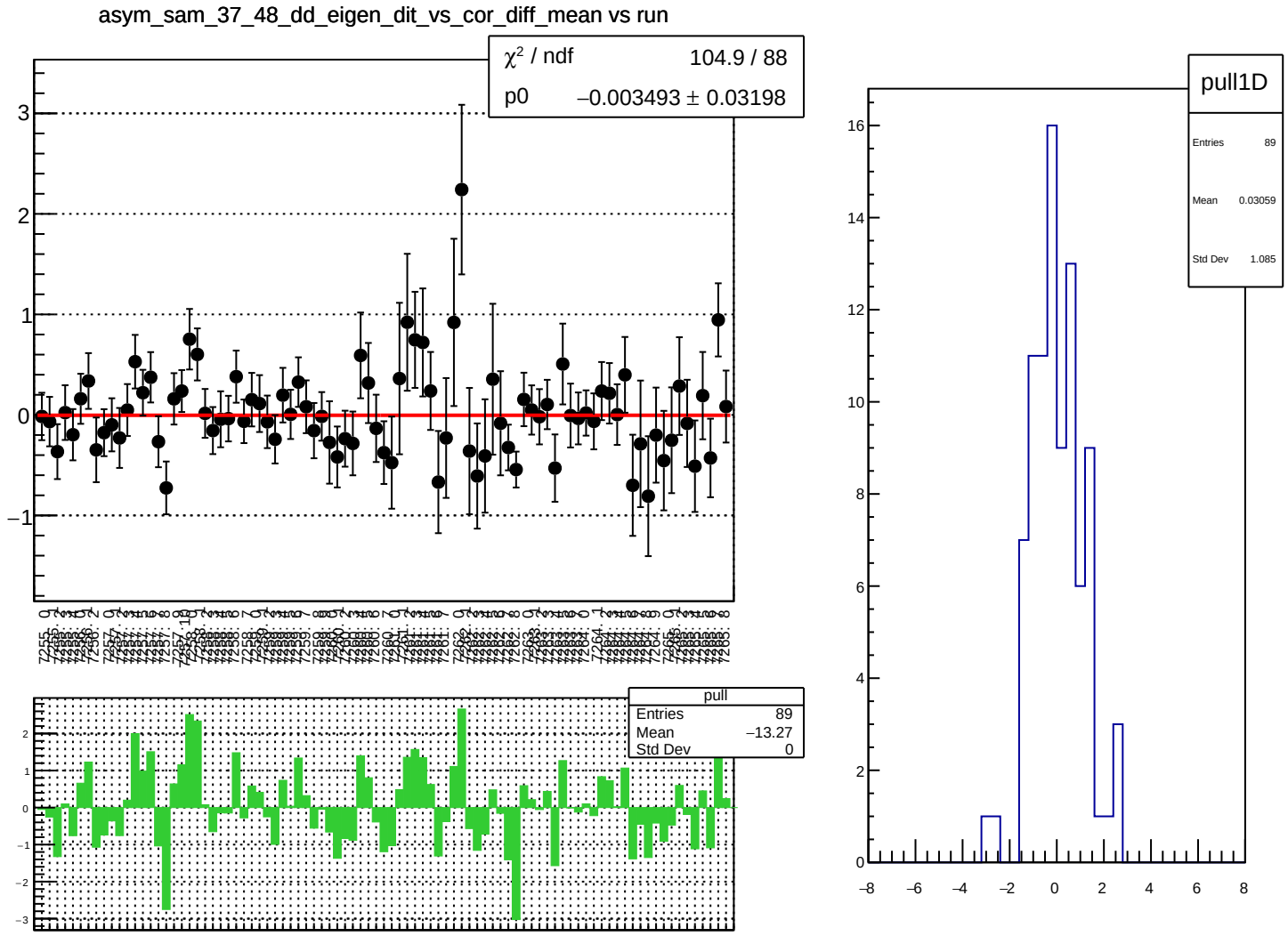

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.485e+05 / 88
p0 28.12 ± 0.02261
80
70
60
50
40
30
20

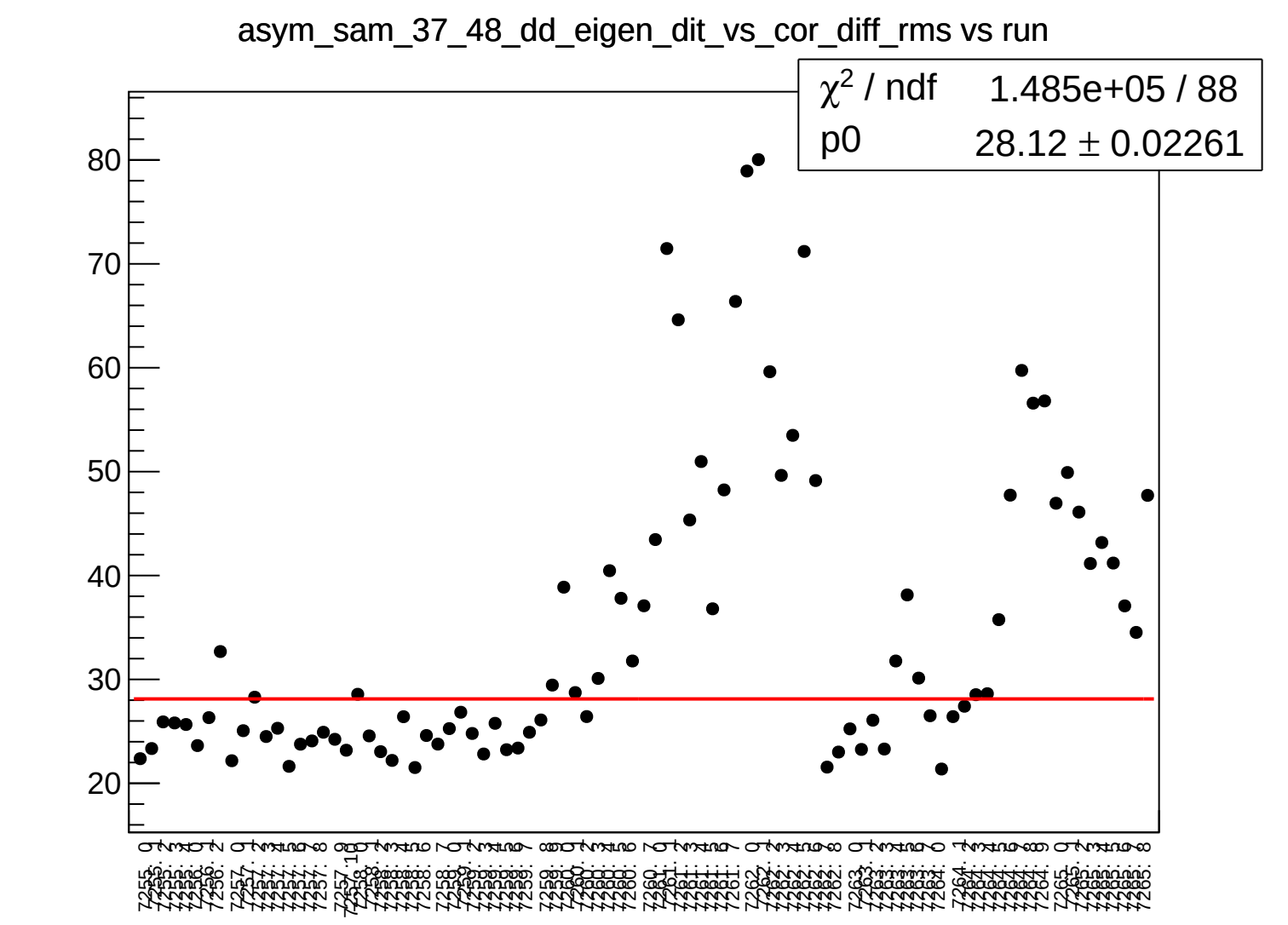

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 88
p0 −0.003488 ± 0.03198
pull
Entries 89
Mean −13.28
Std Dev 0
pull1D
Entries 89
Mean 0.03058
Std Dev 1.085

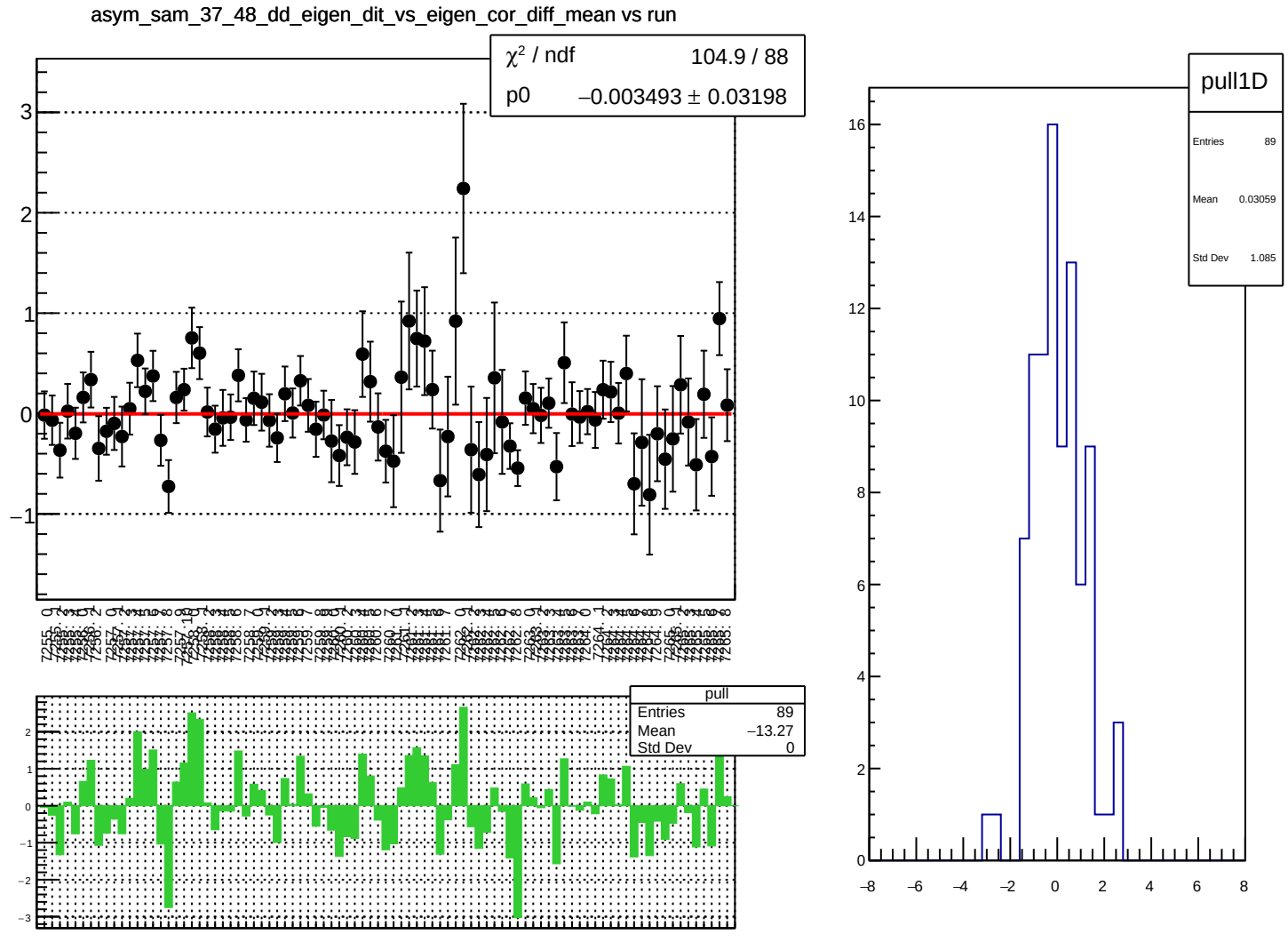

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.485e+05 / 88
p0 28.12 ± 0.02261
80
70
60
50
40
30
20

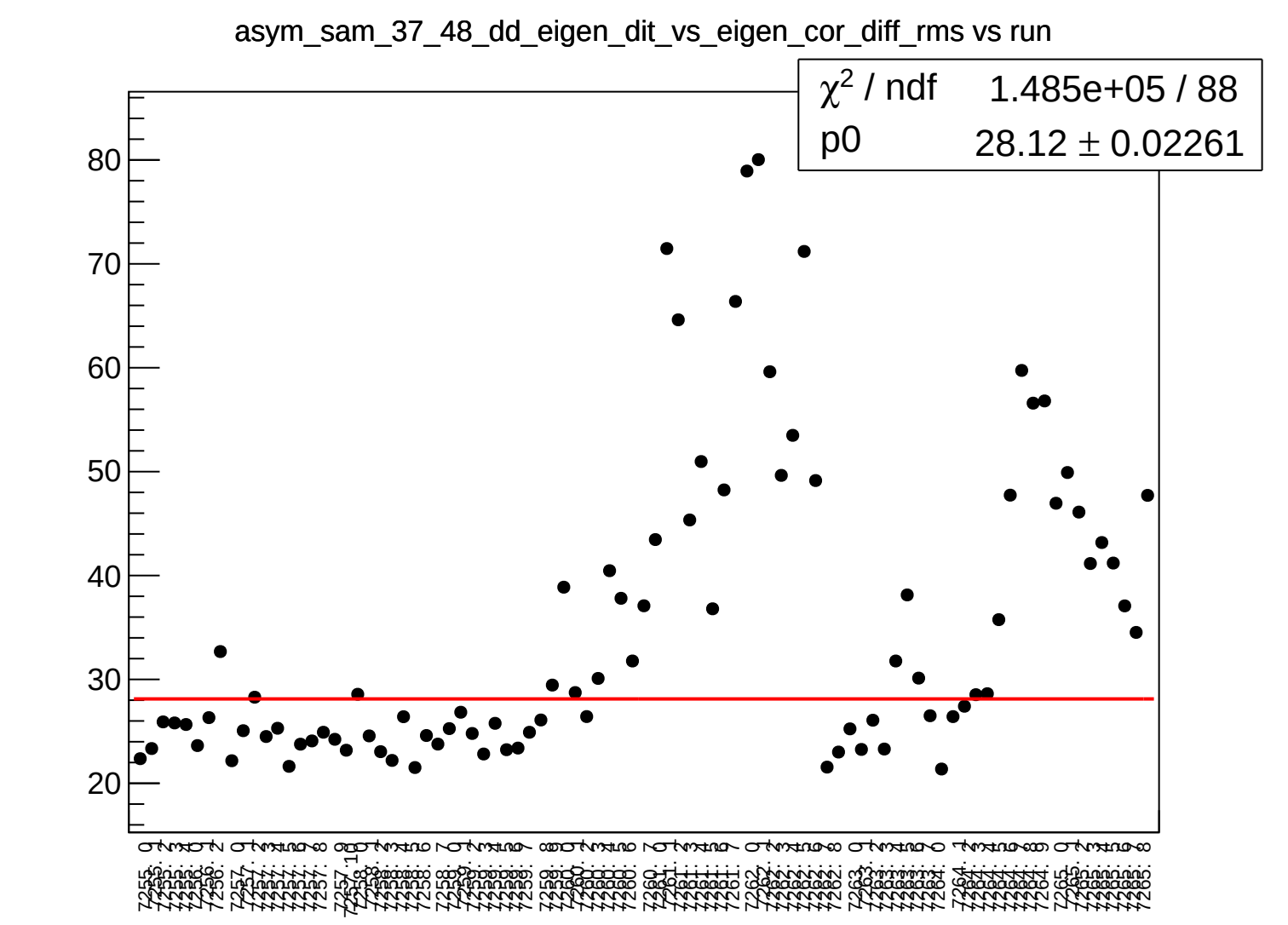

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 97.57 / 88
p0 −3.387e−06 ± 1.942e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean −228.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01906
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

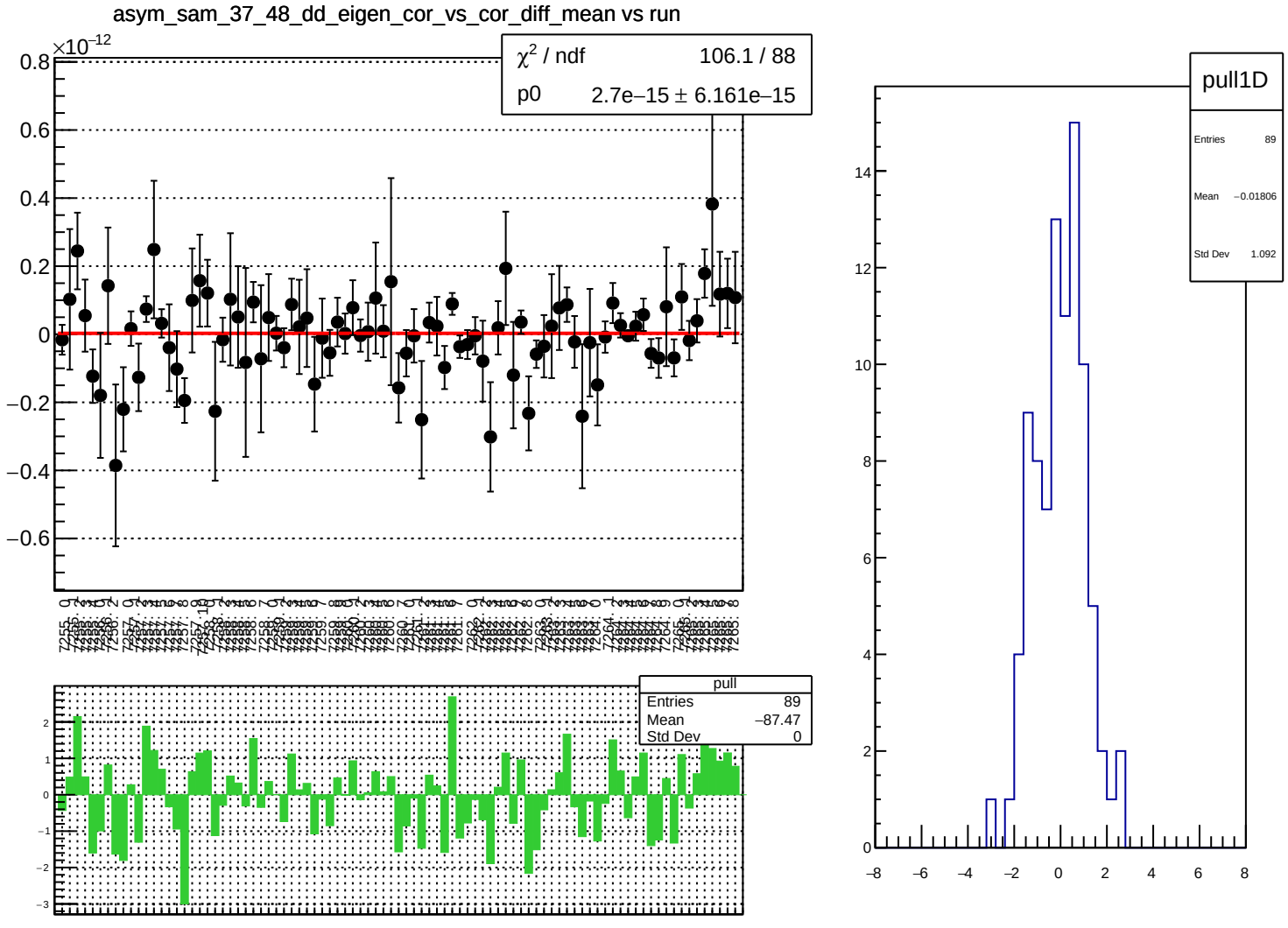

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2228 / 88
p0 0.001786 ± 1.373e−06
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165

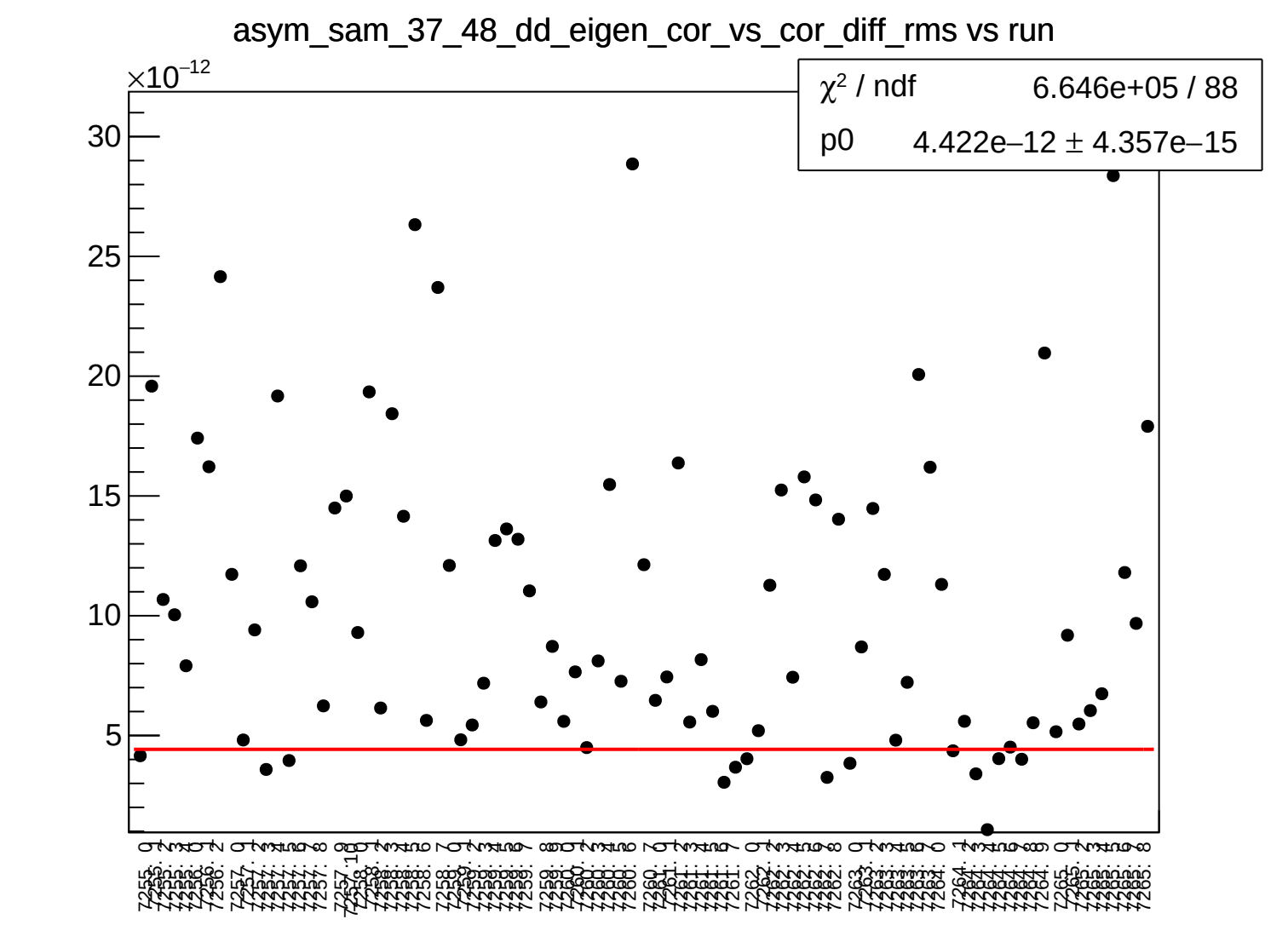

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 88
p0 −0.003493 ± 0.03198
pull
Entries 89
Mean −13.27
Std Dev 0
pull1D
Entries 89
Mean 0.03059
Std Dev 1.085

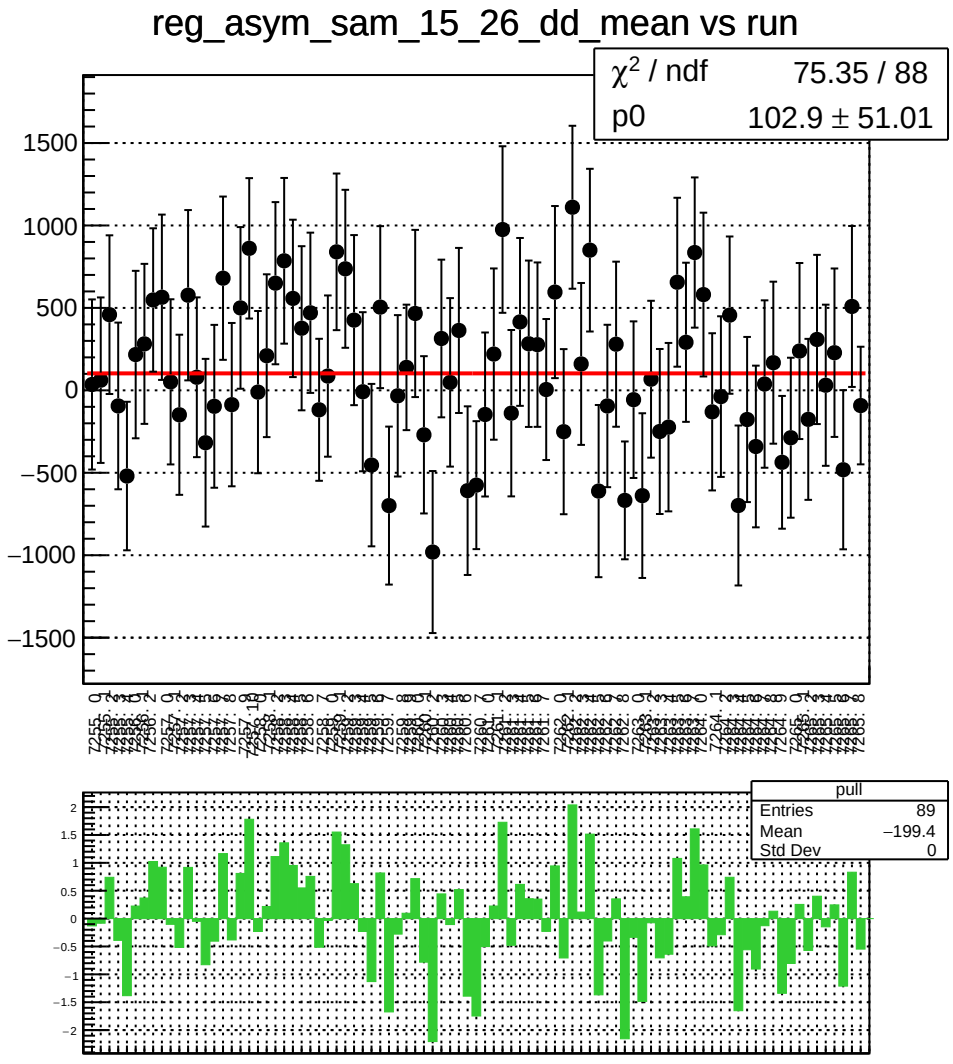

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.485e+05 / 88
p0 28.12 ± 0.02261
80
70
60
50
40
30
20

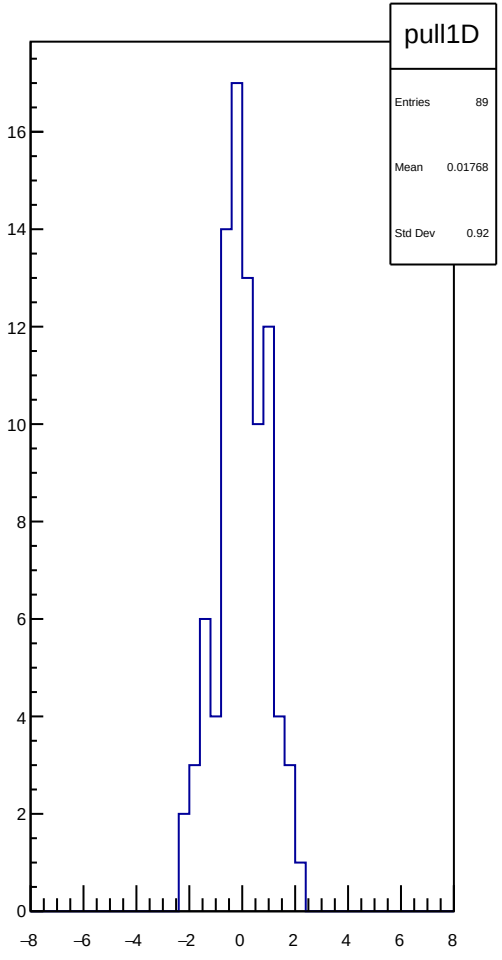

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 88
p0 −0.003493 ± 0.03198
pull
Entries 89
Mean −13.27
Std Dev 0
pull1D
Entries 89
Mean 0.03059
Std Dev 1.085

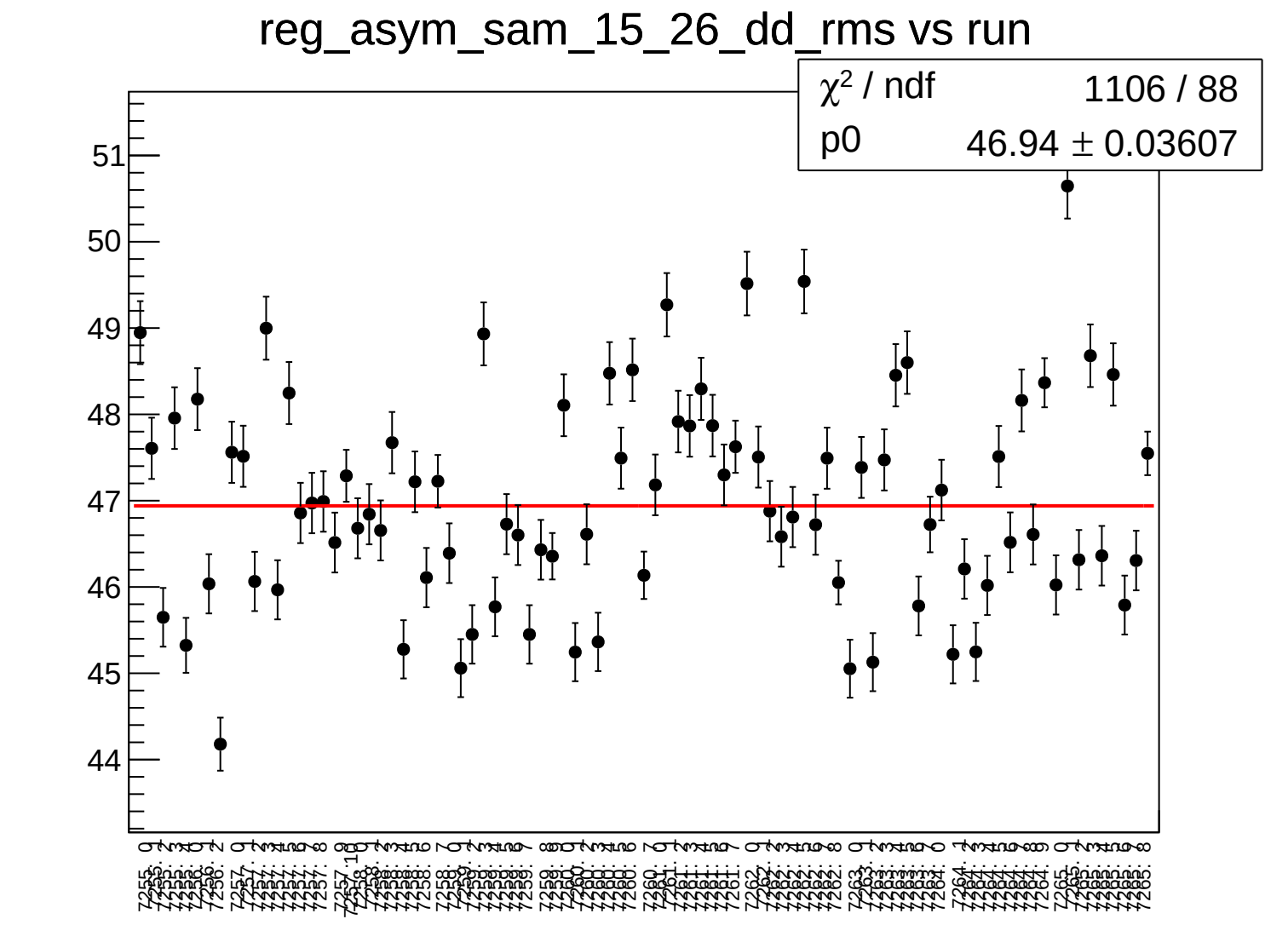

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.485e+05 / 88
p0 28.12 ± 0.02261
80
70
60
50
40
30
20

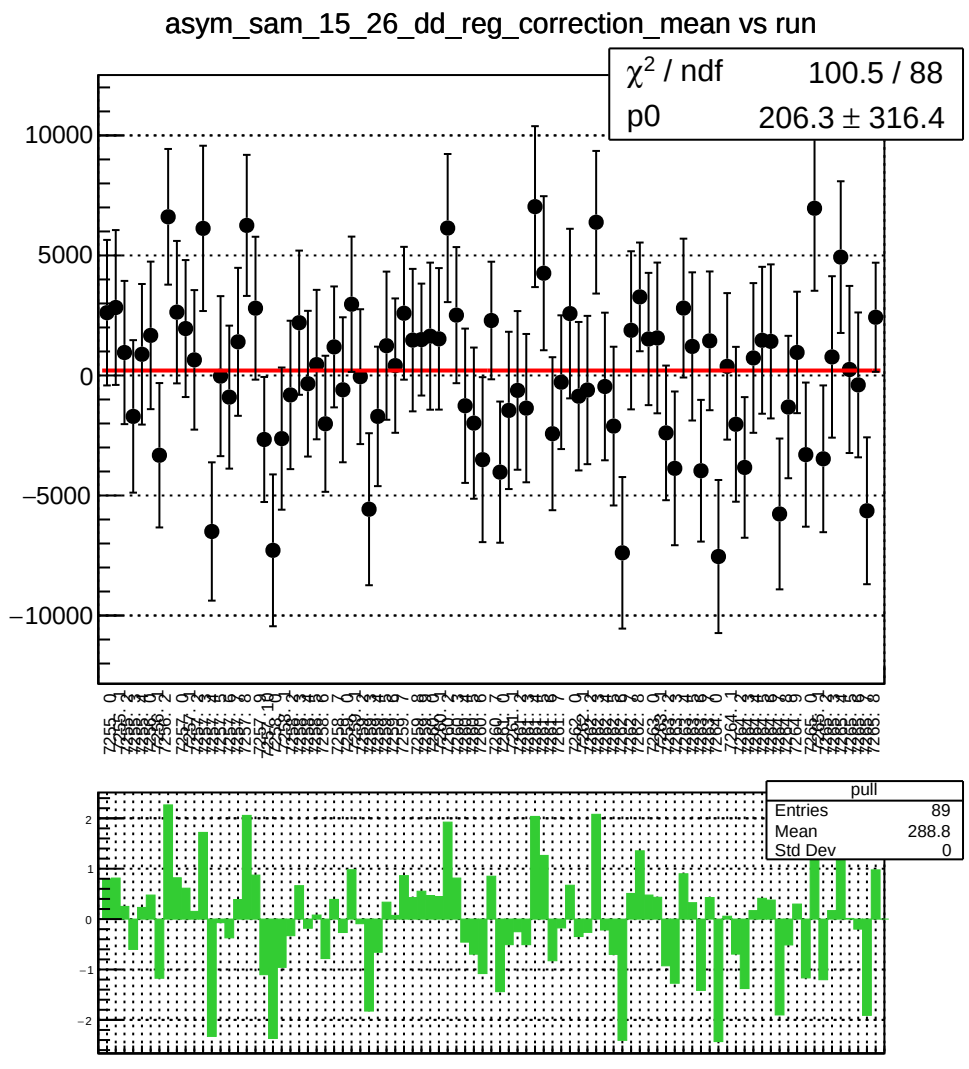

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.1 / 88
p0 2.7e−15 ± 6.161e−15
pull
Entries 89
Mean −87.47
Std Dev 0
pull1D
Entries 89
Mean −0.01806
Std Dev 1.092

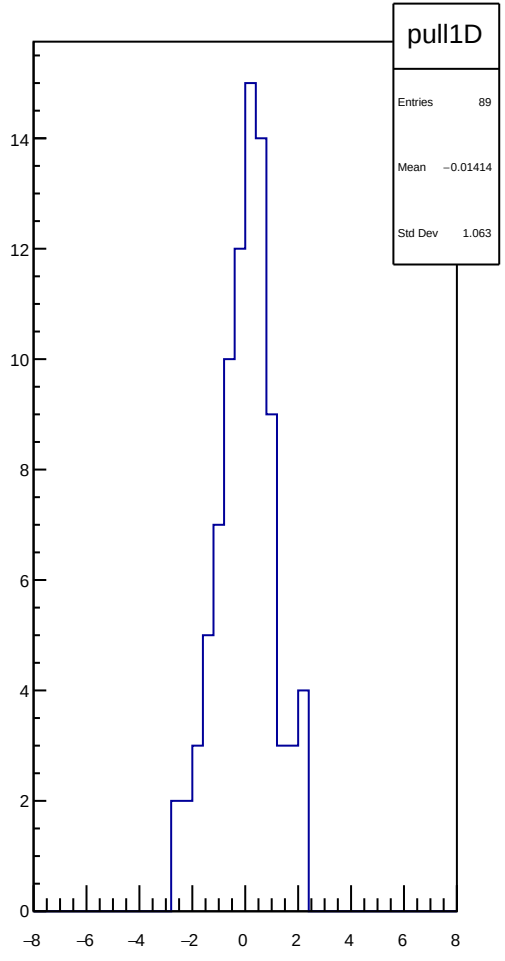

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.646e+05 / 88
p0 4.422e−12 ± 4.357e−15
30
25
20
15
10
5

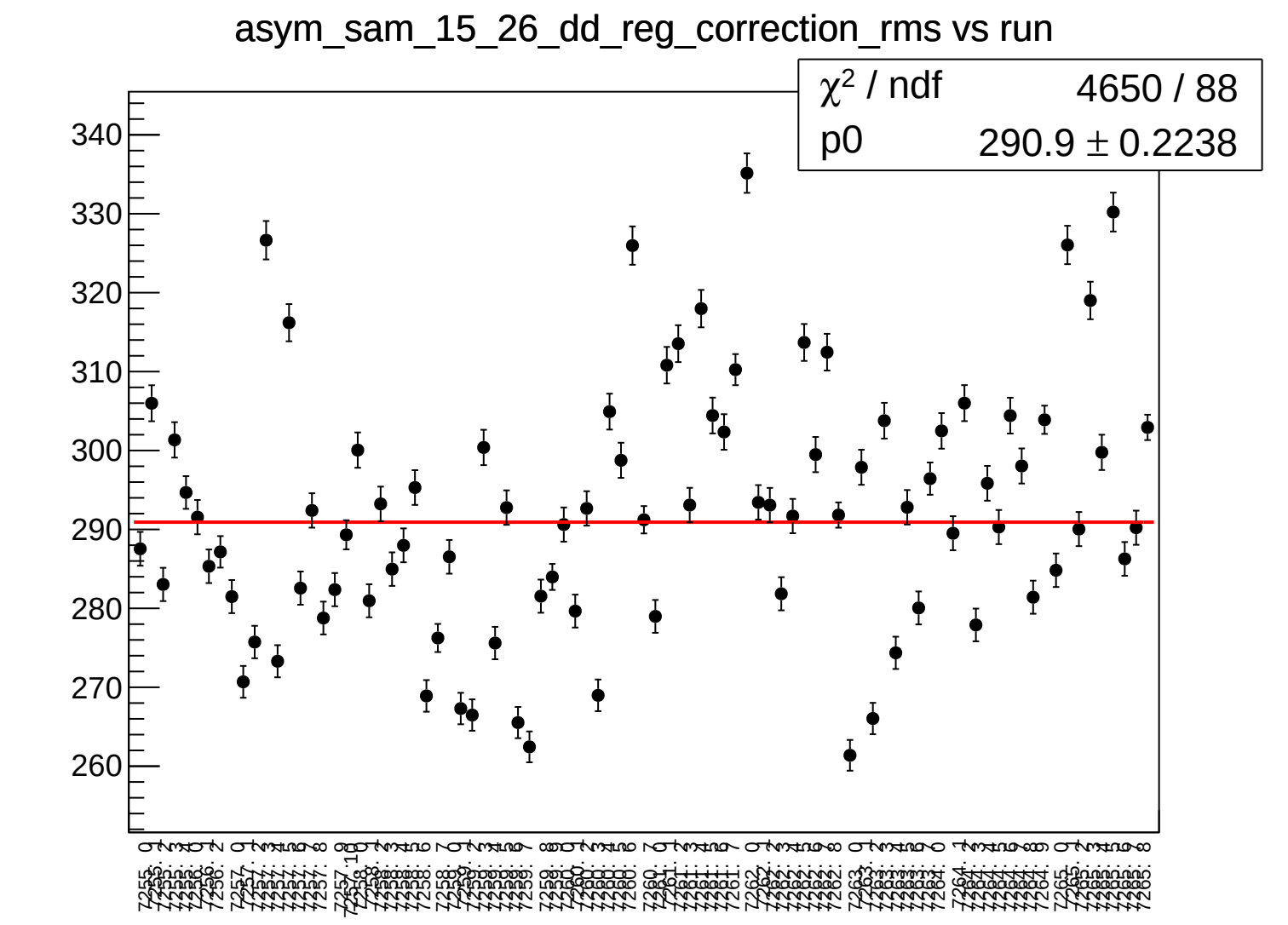

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 75.35 / 88
p0 102.9 ± 51.01
pull
Entries 89
Mean −199.4
Std Dev 0

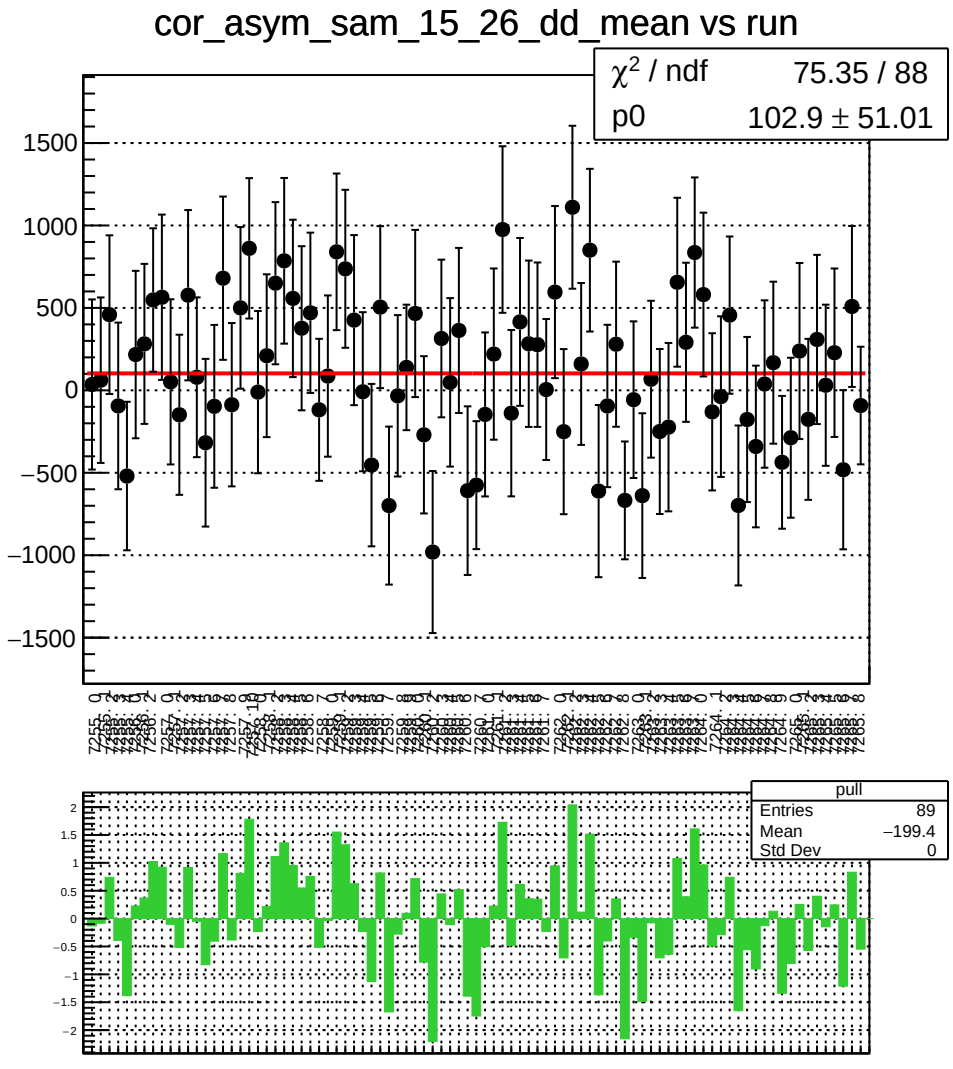

pull1D
Entries 89
Mean 0.01768
Std Dev 0.92

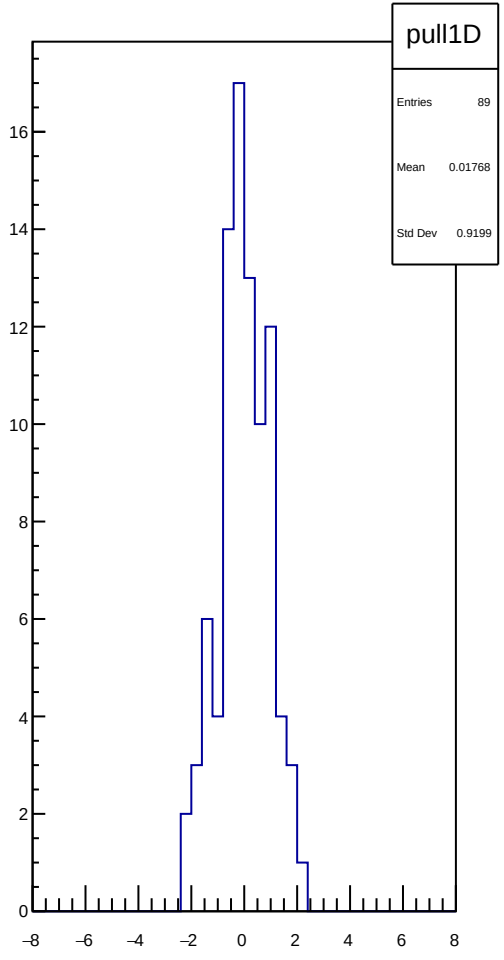

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1106 / 88
p0 46.94 ± 0.03607
51
50
49
48
47
46
45
44

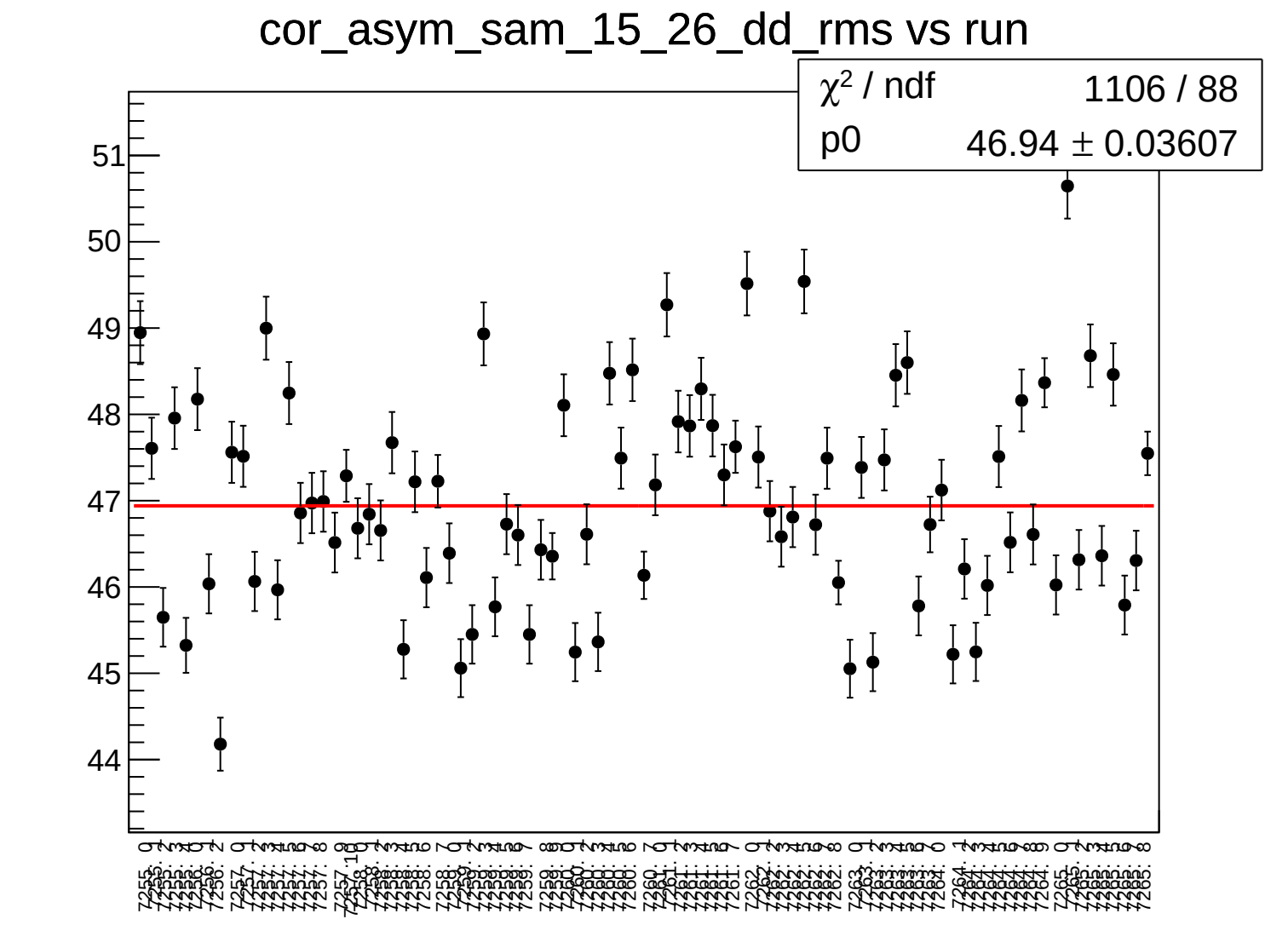

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 100.5 / 88
p0 206.3 ± 316.4
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 288.8
Std Dev 0
2
1
0
−1
−2

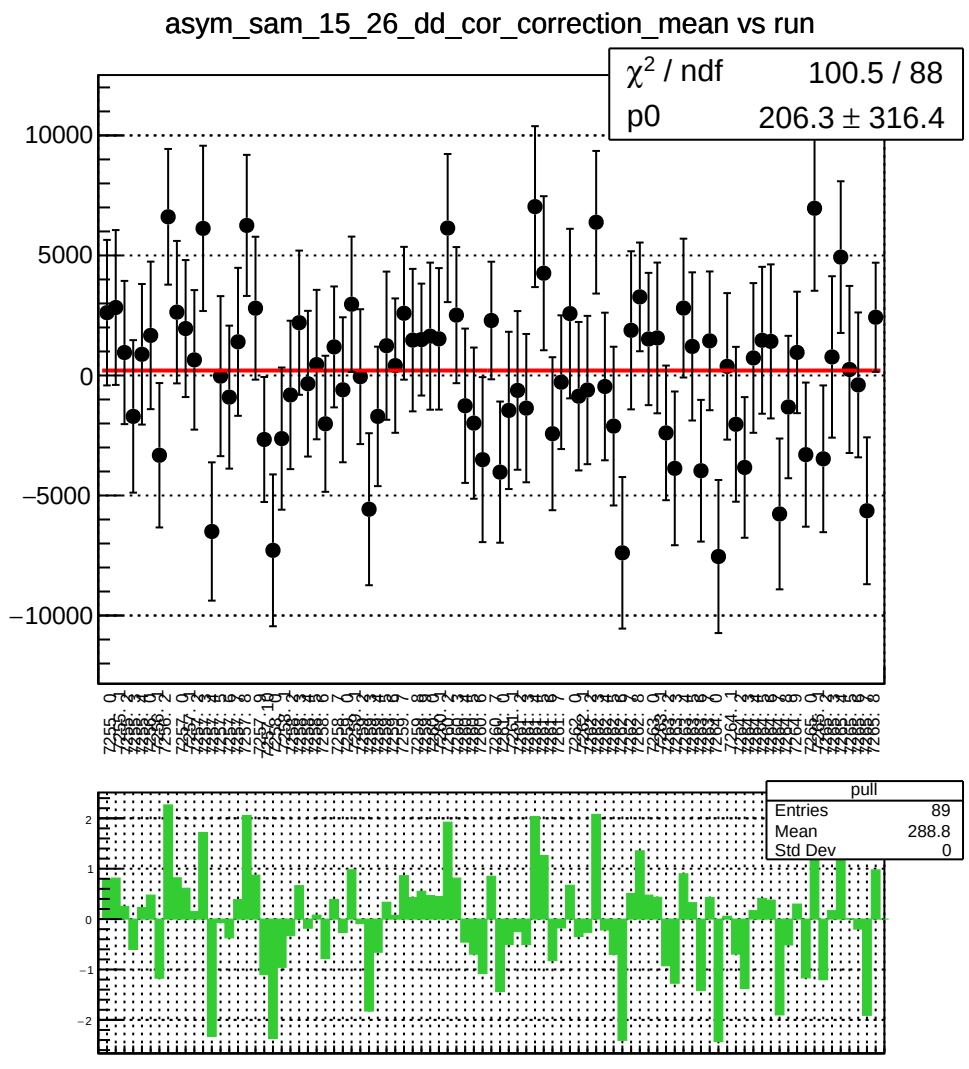

pull1D
Entries 89
Mean −0.01414
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

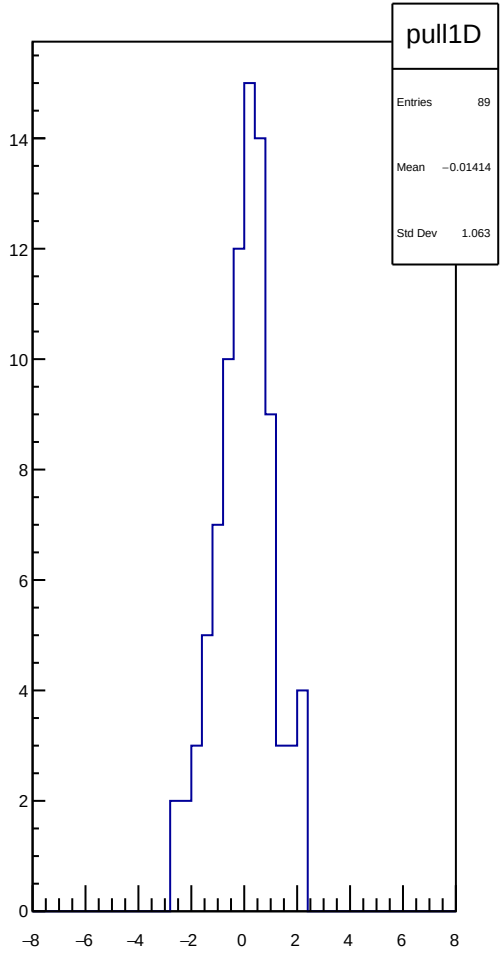

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 4650 / 88
p0 290.9 ± 0.2238
340
330
320
310
300
290
280
270
260

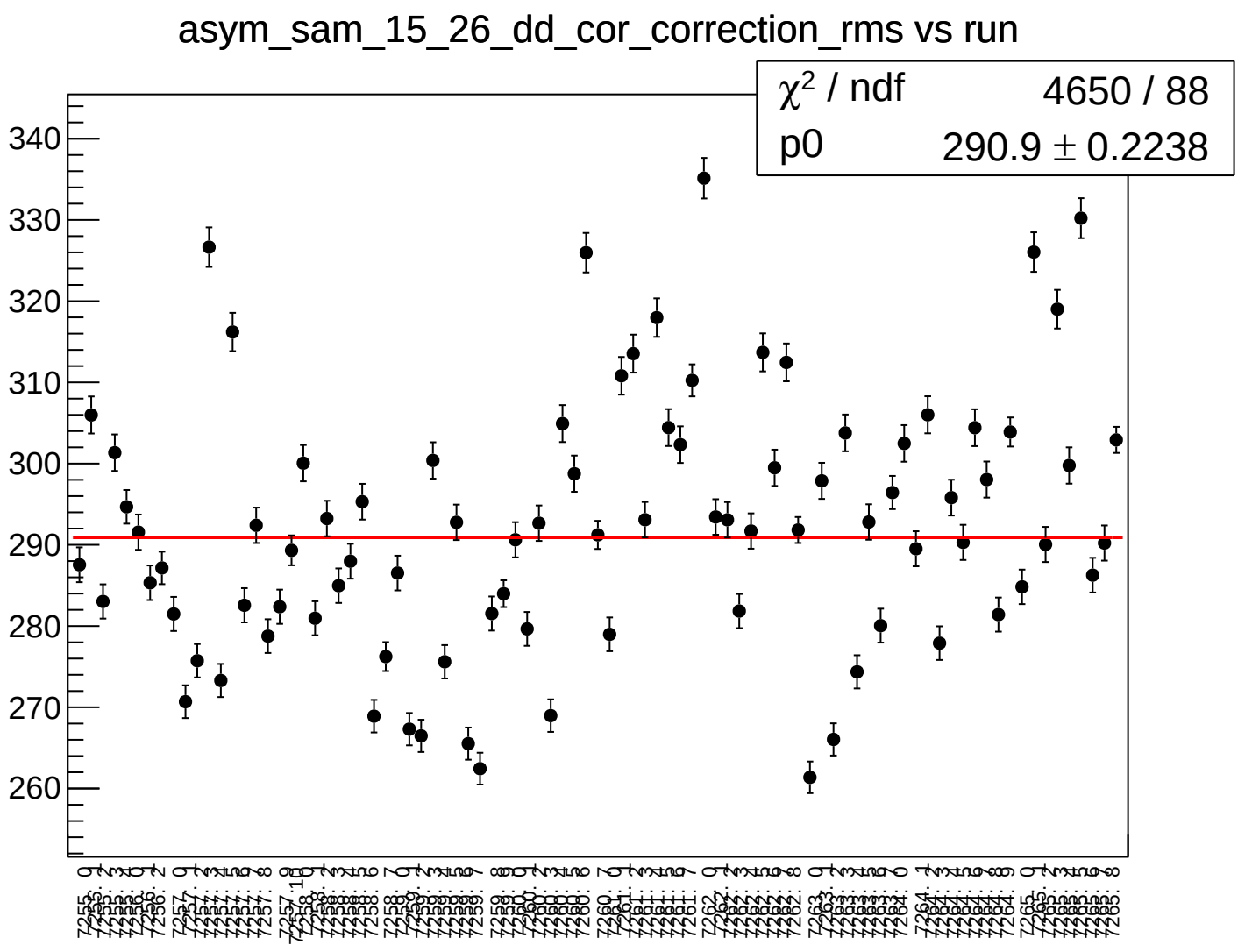

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 75.35 / 88
p0 102.9 ± 51.01
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −199.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

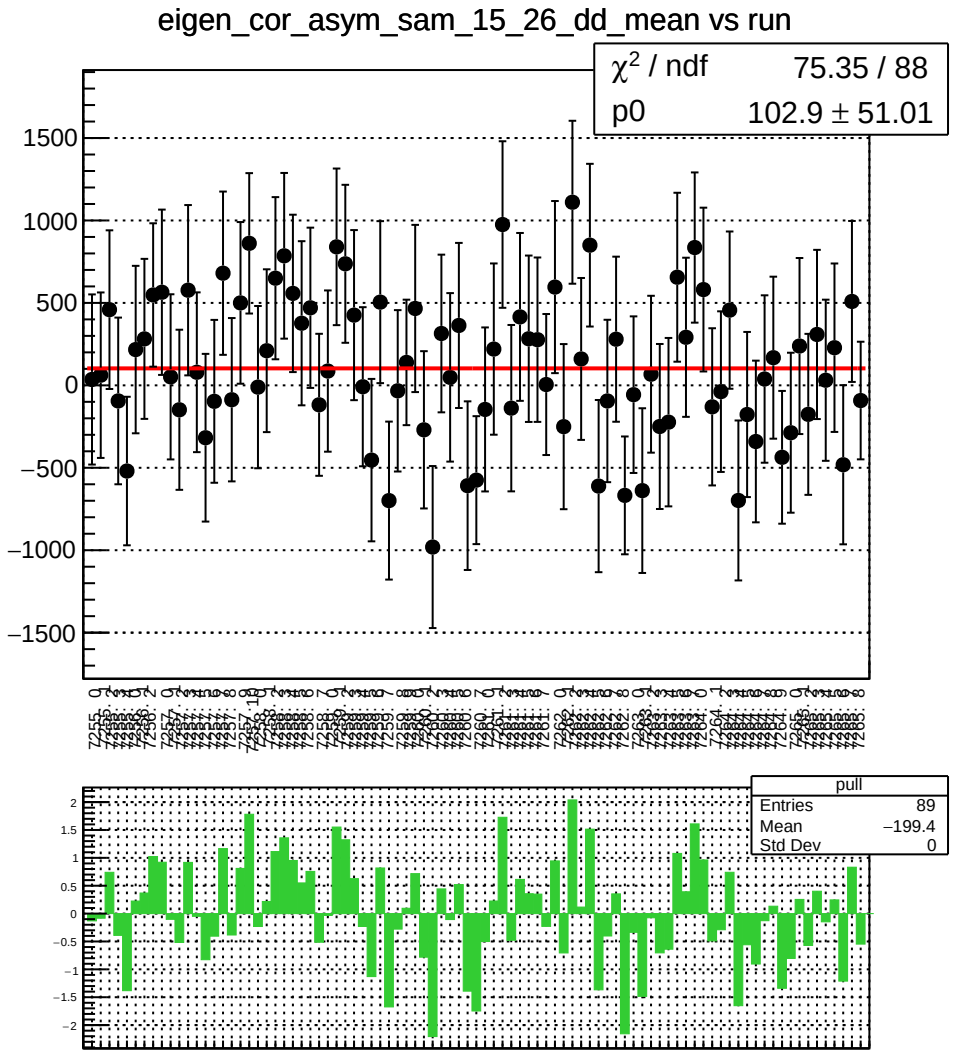

pull1D
Entries 89
Mean 0.01768
Std Dev 0.9199
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

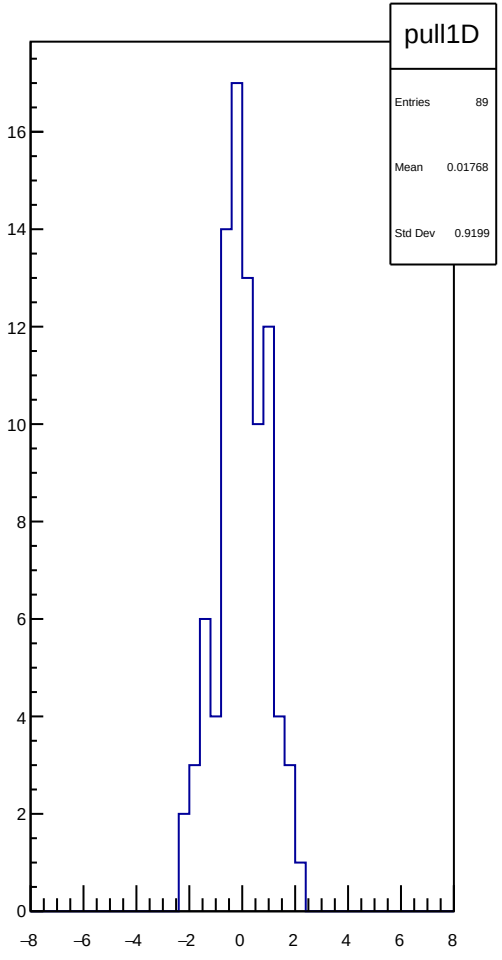

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1106 / 88
p0 46.94 ± 0.03607
51
50
49
48
47
46
45
44

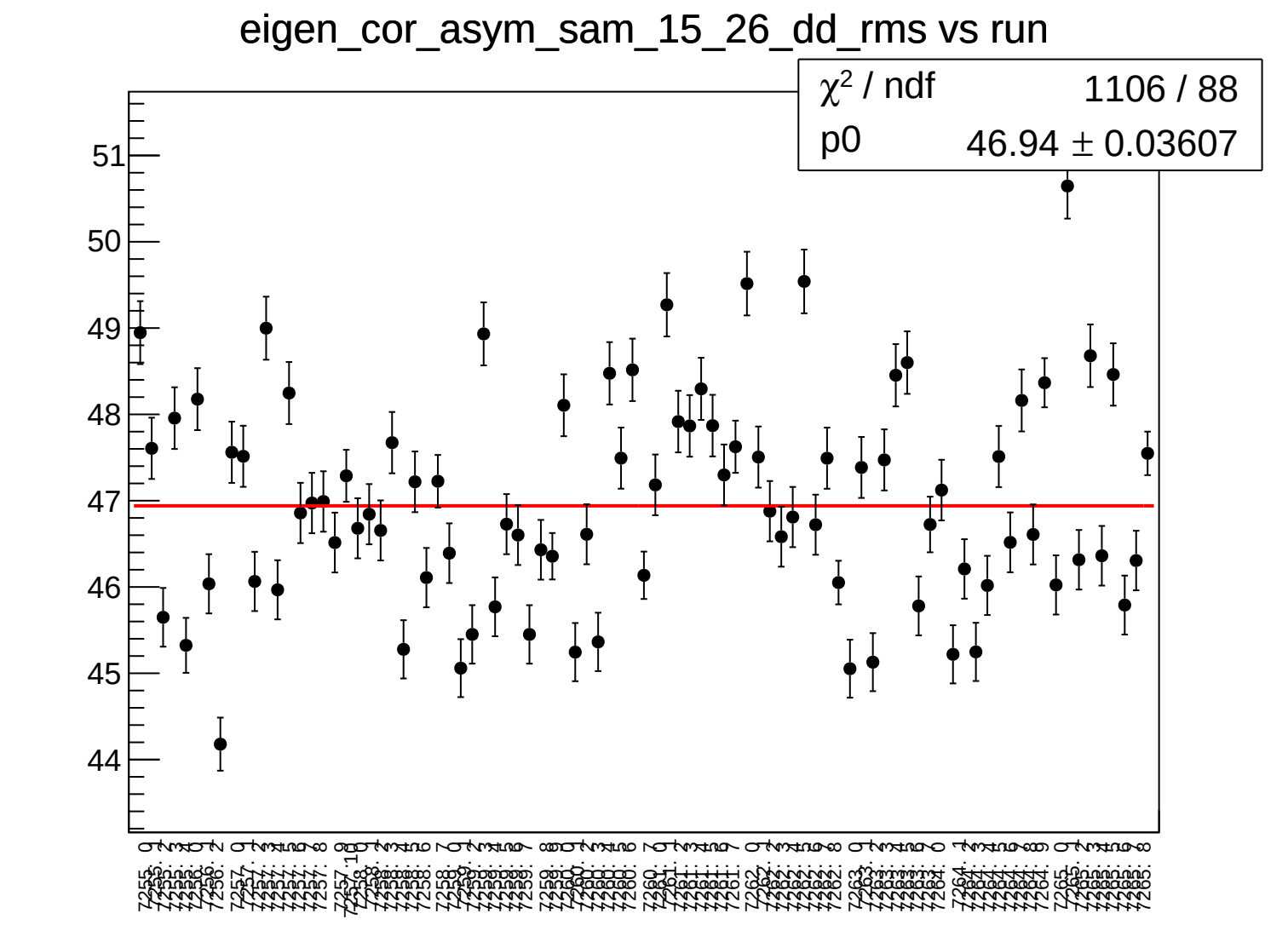

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 100.5 / 88
p0 206.3 ± 316.4
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 288.8
Std Dev 0
2
1
0
−1
−2

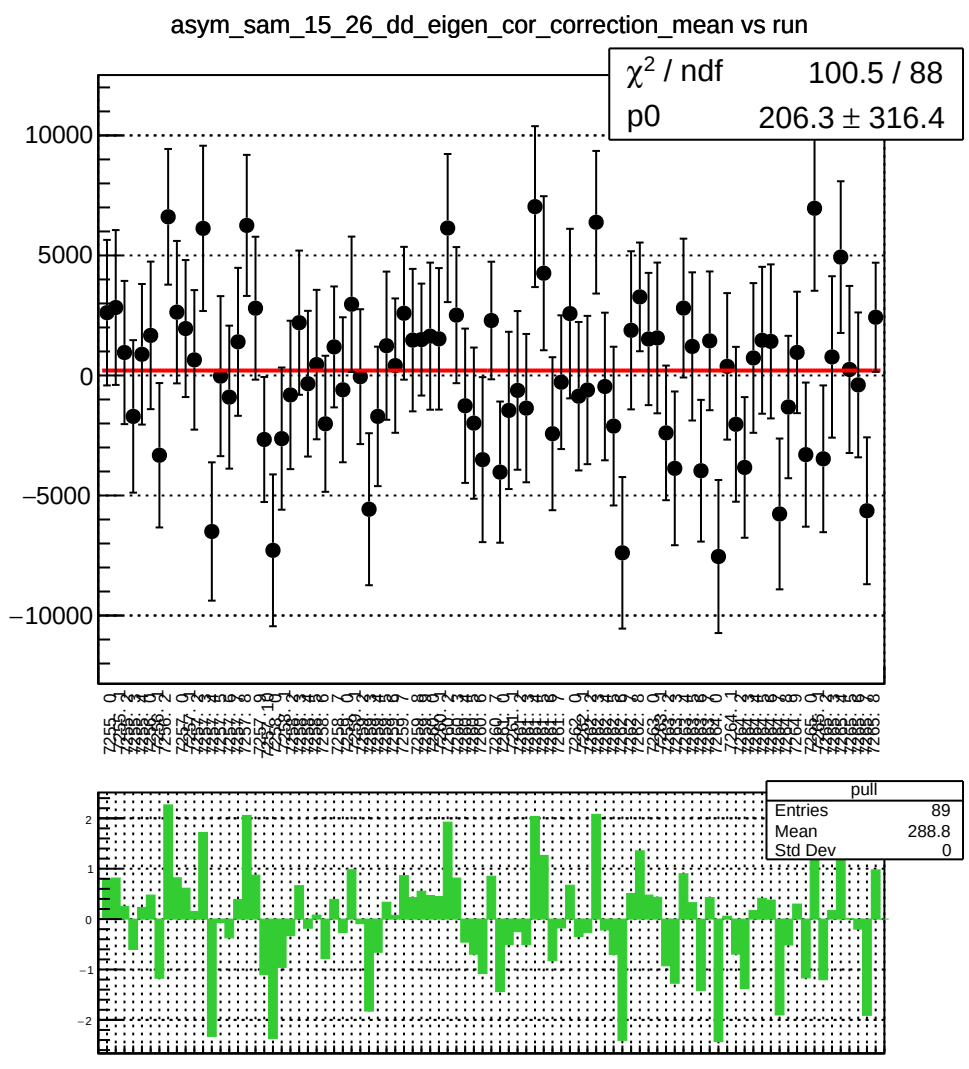

pull1D
Entries 89
Mean −0.01414
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

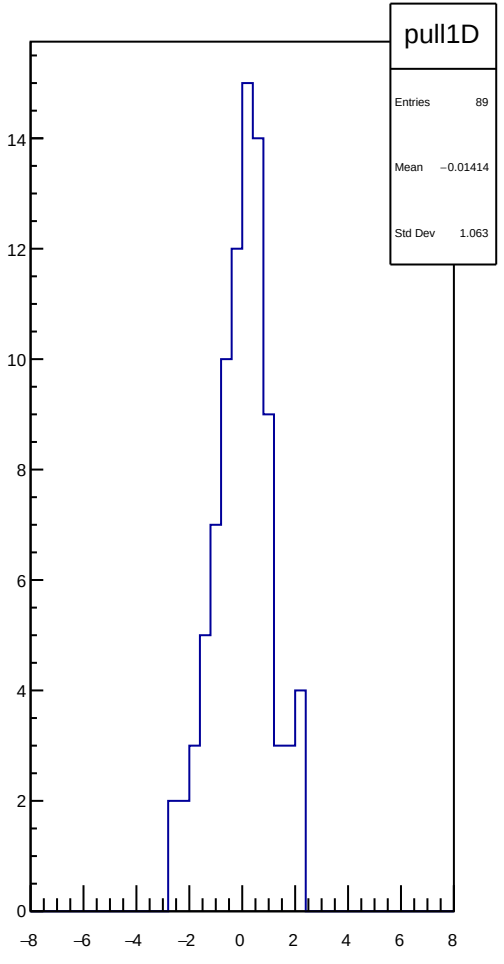

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 4650 / 88
p0 290.9 ± 0.2238
340
330
320
310
300
290
280
270
260

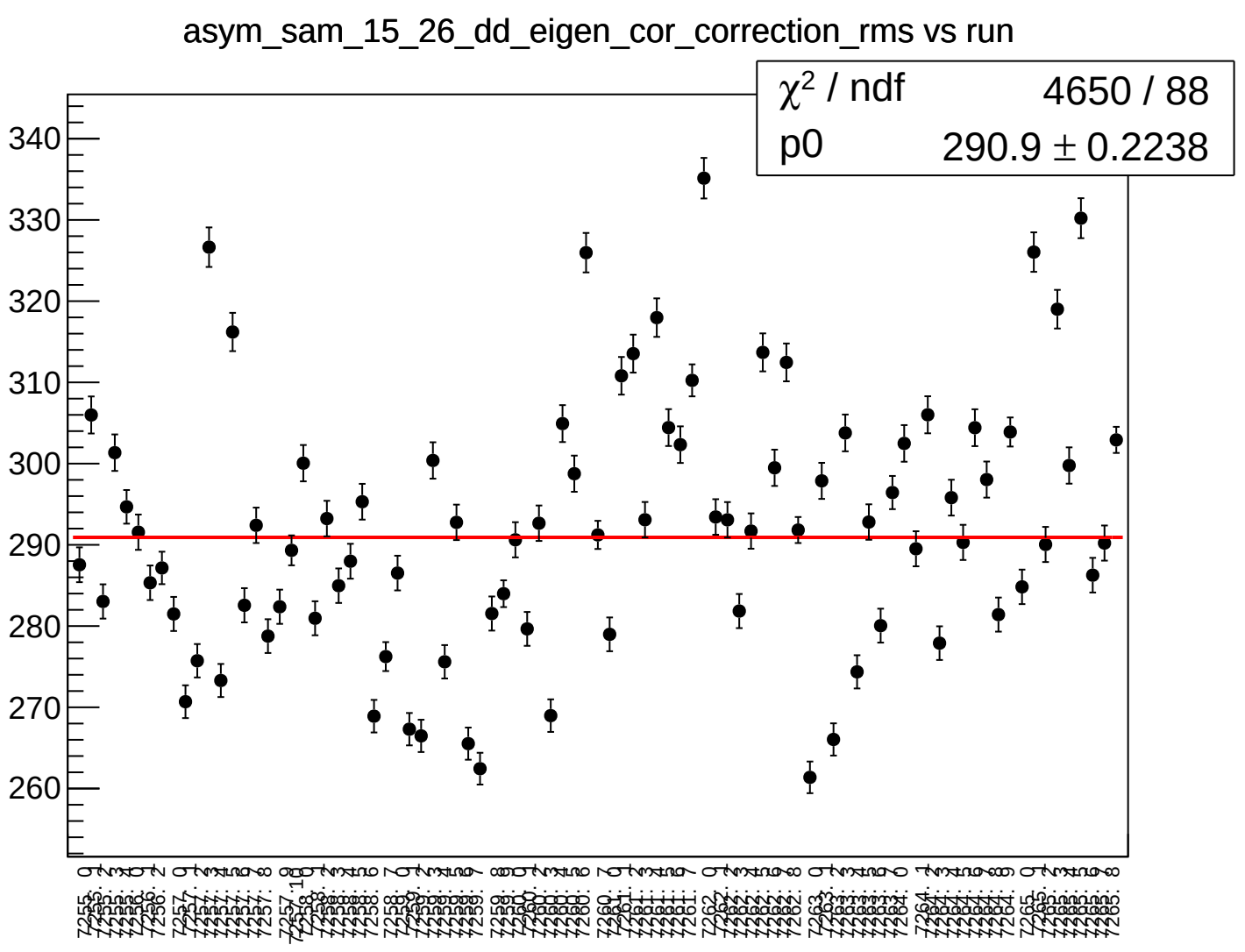

eigen_cor_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 75.35 / 88
p0 102.9 ± 51.01
pull
Entries 89
Mean −199.4
Std Dev 0

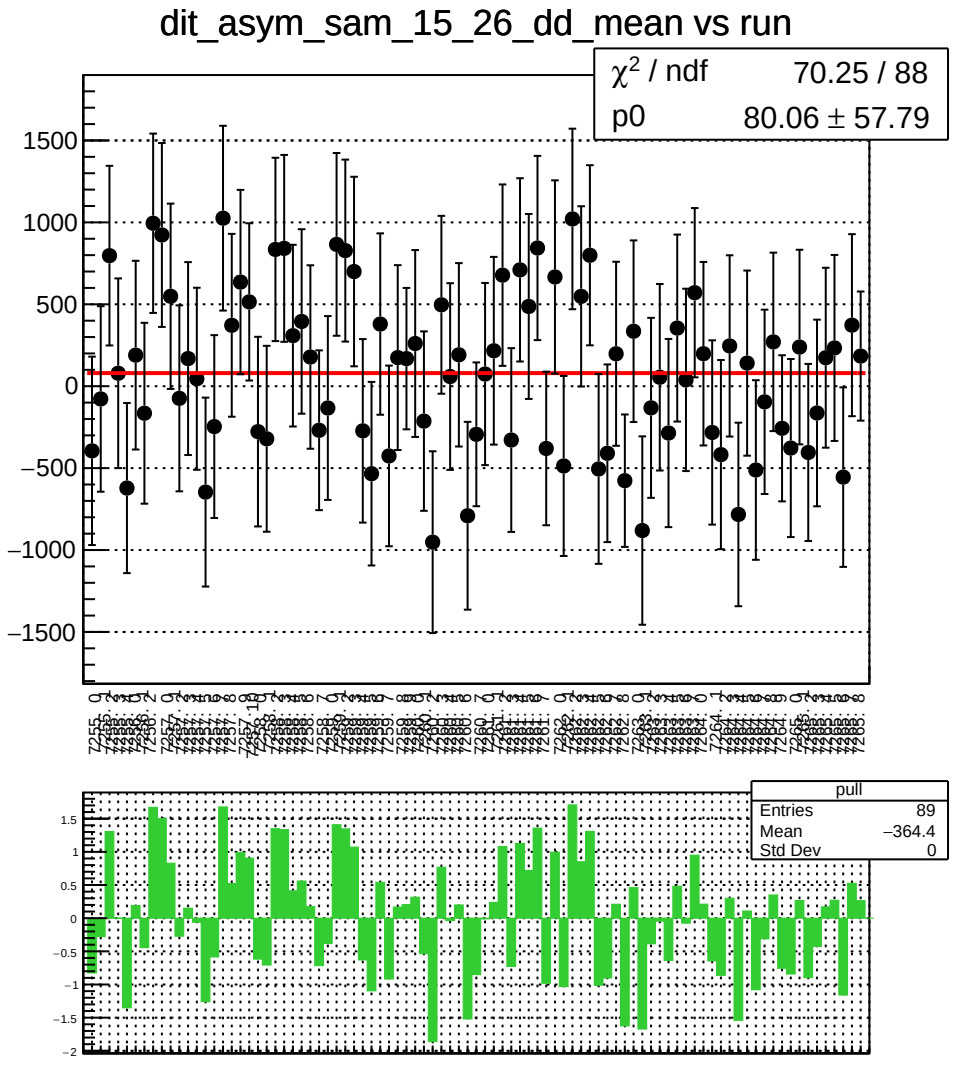

pull1D
Entries 89
Mean 0.01768
Std Dev 0.9199

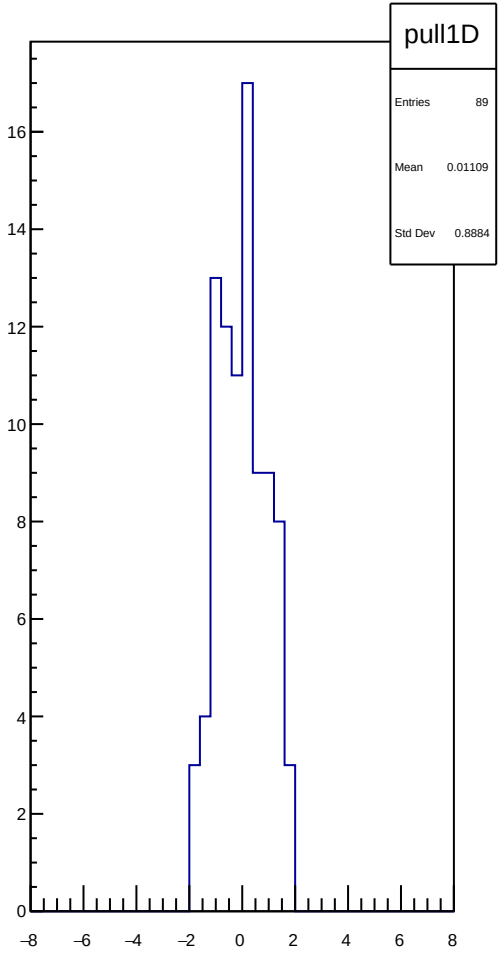

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1106 / 88
p0 46.94 ± 0.03607
51
50
49
48
47
46
45
44

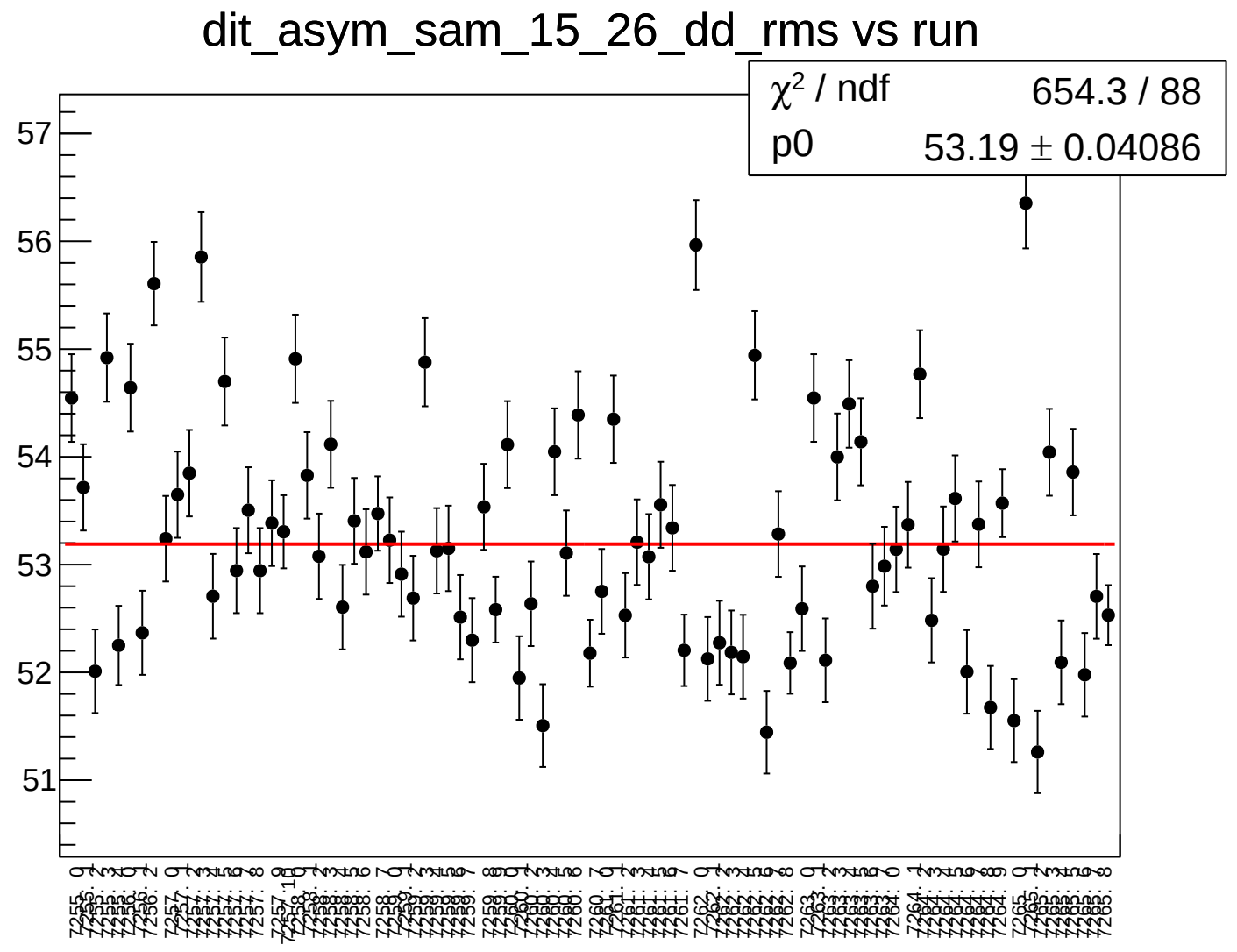

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.5 / 88
p0 206.3 ± 316.4
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 288.8
Std Dev 0
2
1
0
−1
−2

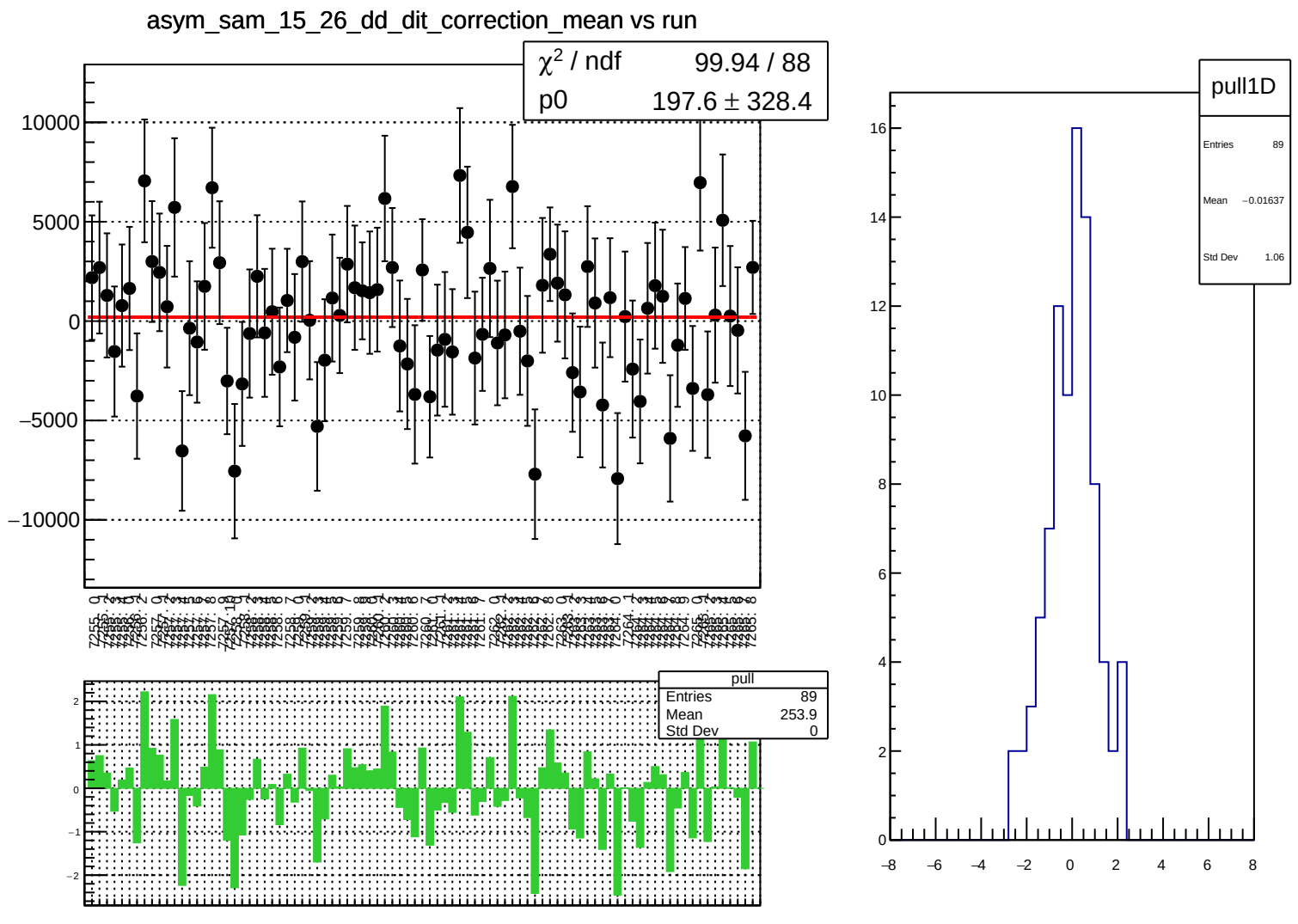

pull1D
Entries 89
Mean −0.01414
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

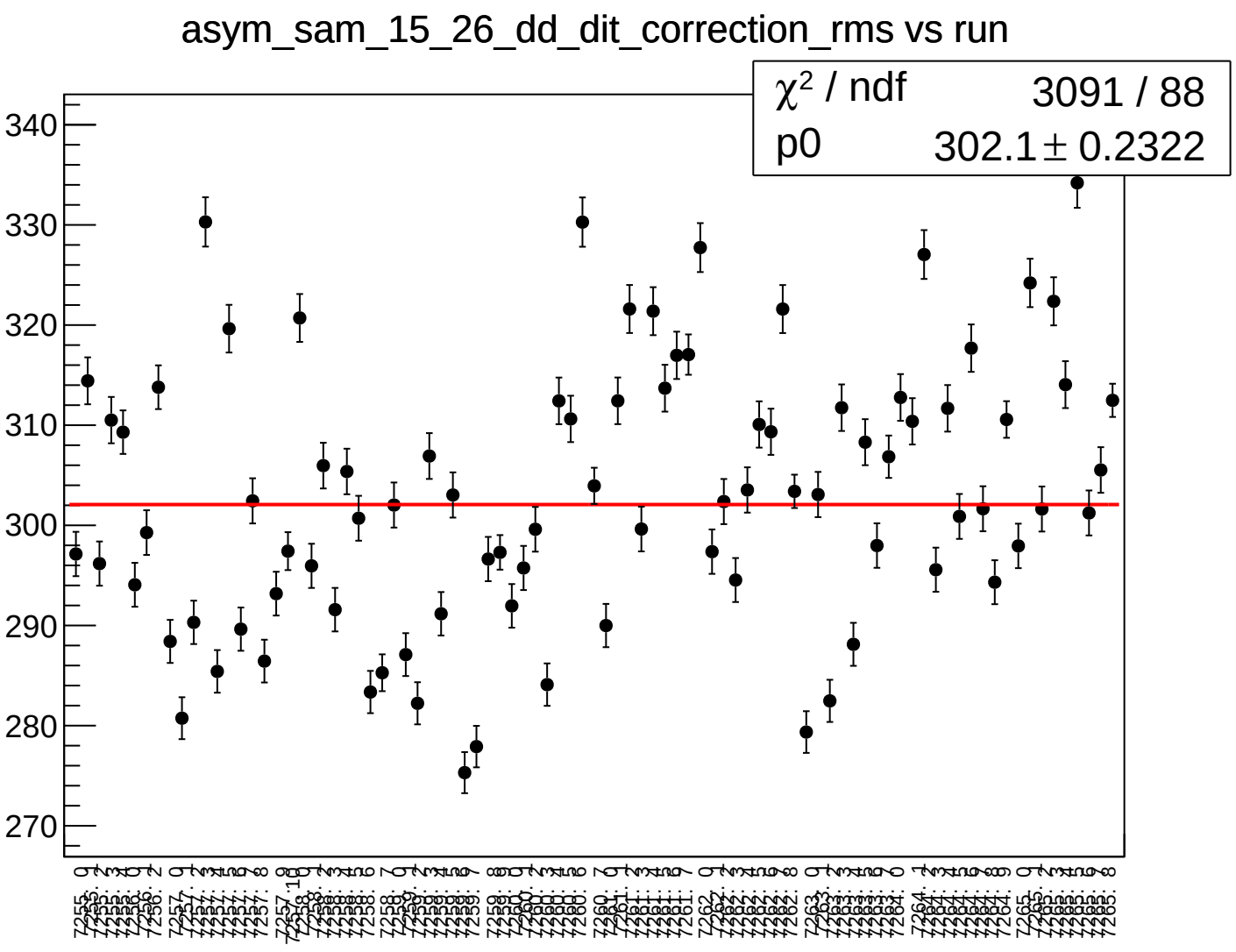

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4650 / 88
p0 290.9 ± 0.2238
340
330
320
310
300
290
280
270
260

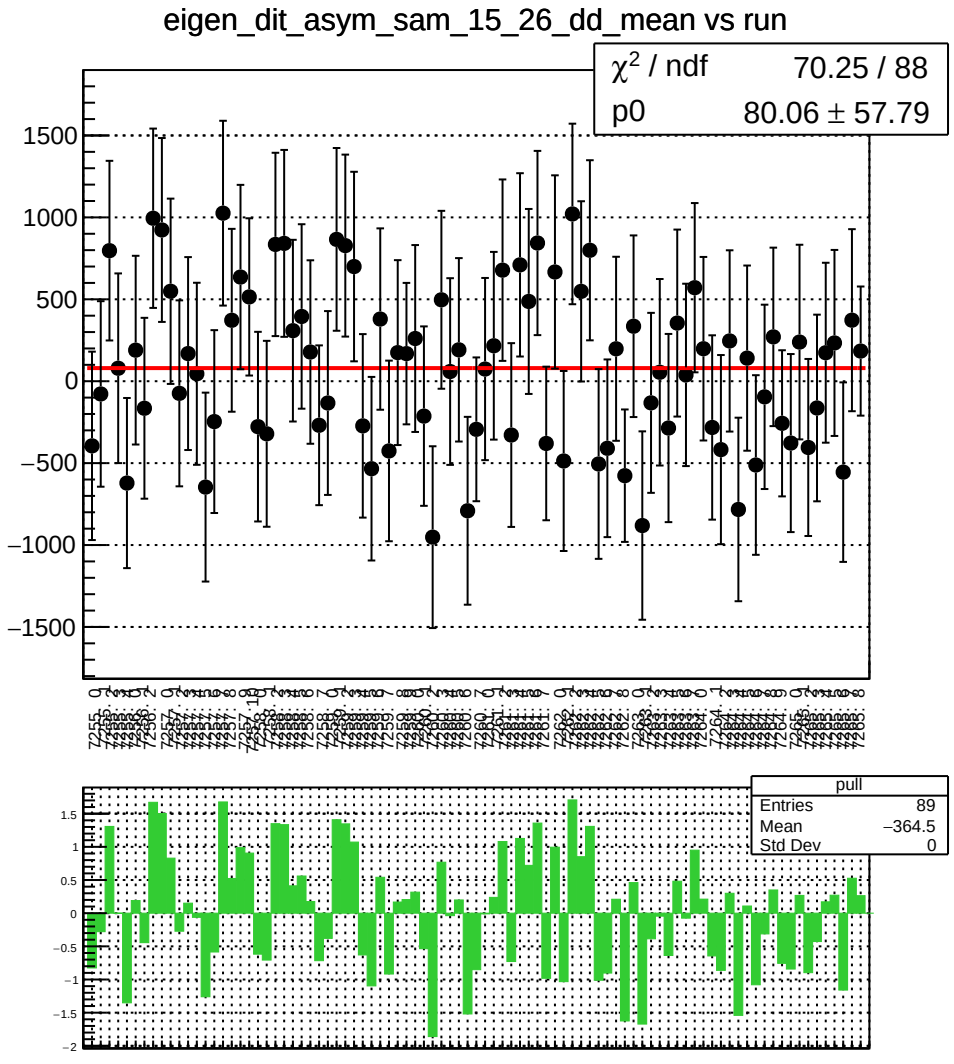

dit_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 70.25 / 88
p0 80.06 ± 57.79
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −364.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

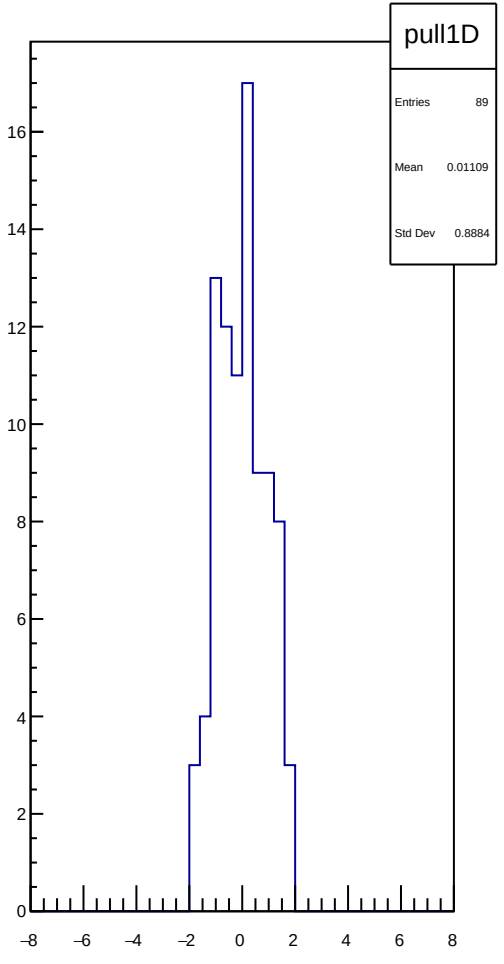

pull1D
Entries 89
Mean 0.01109
Std Dev 0.8884
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

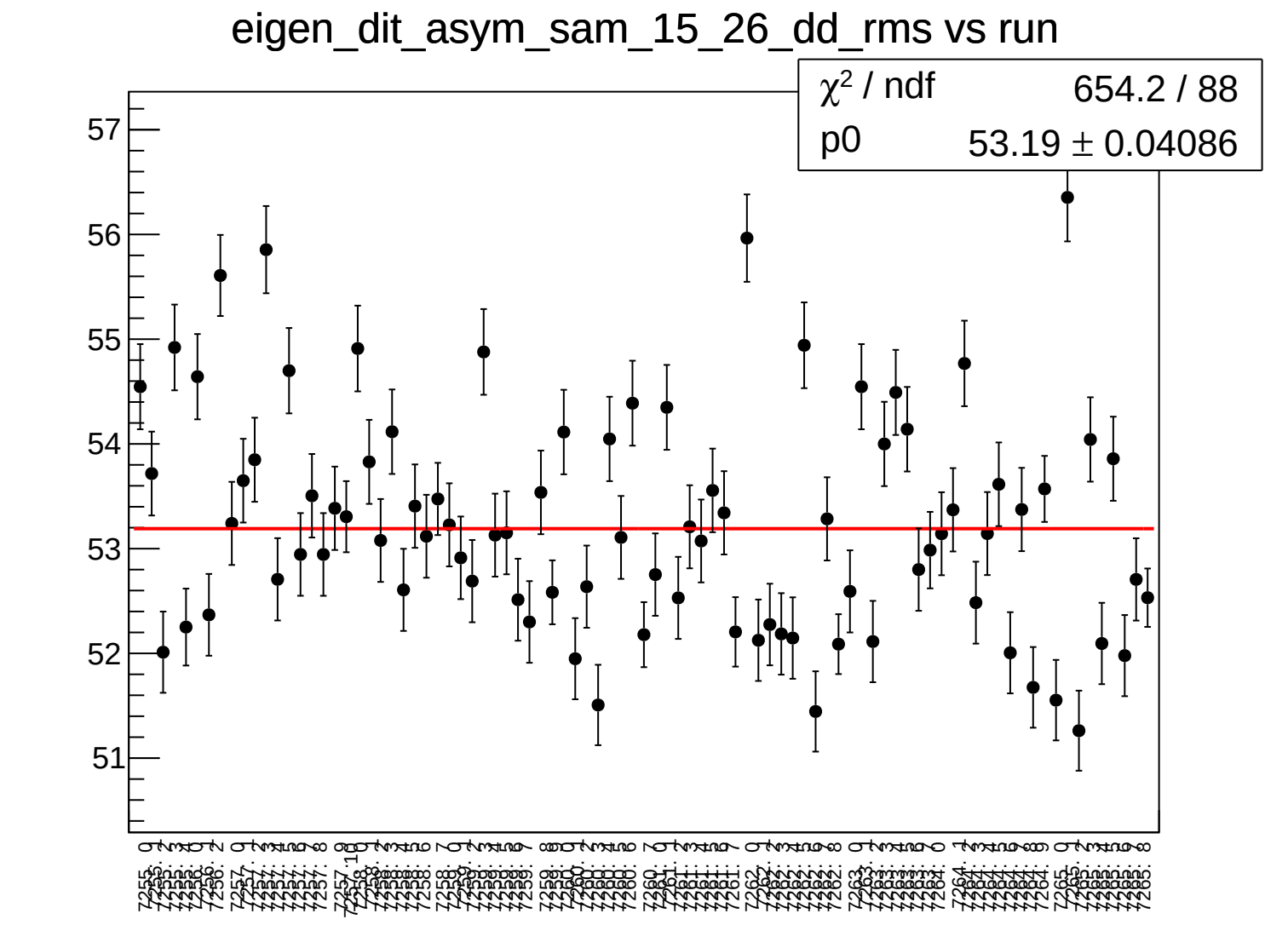

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 654.3 / 88
p0 53.19 ± 0.04086
57
56
55
54
53
52
51

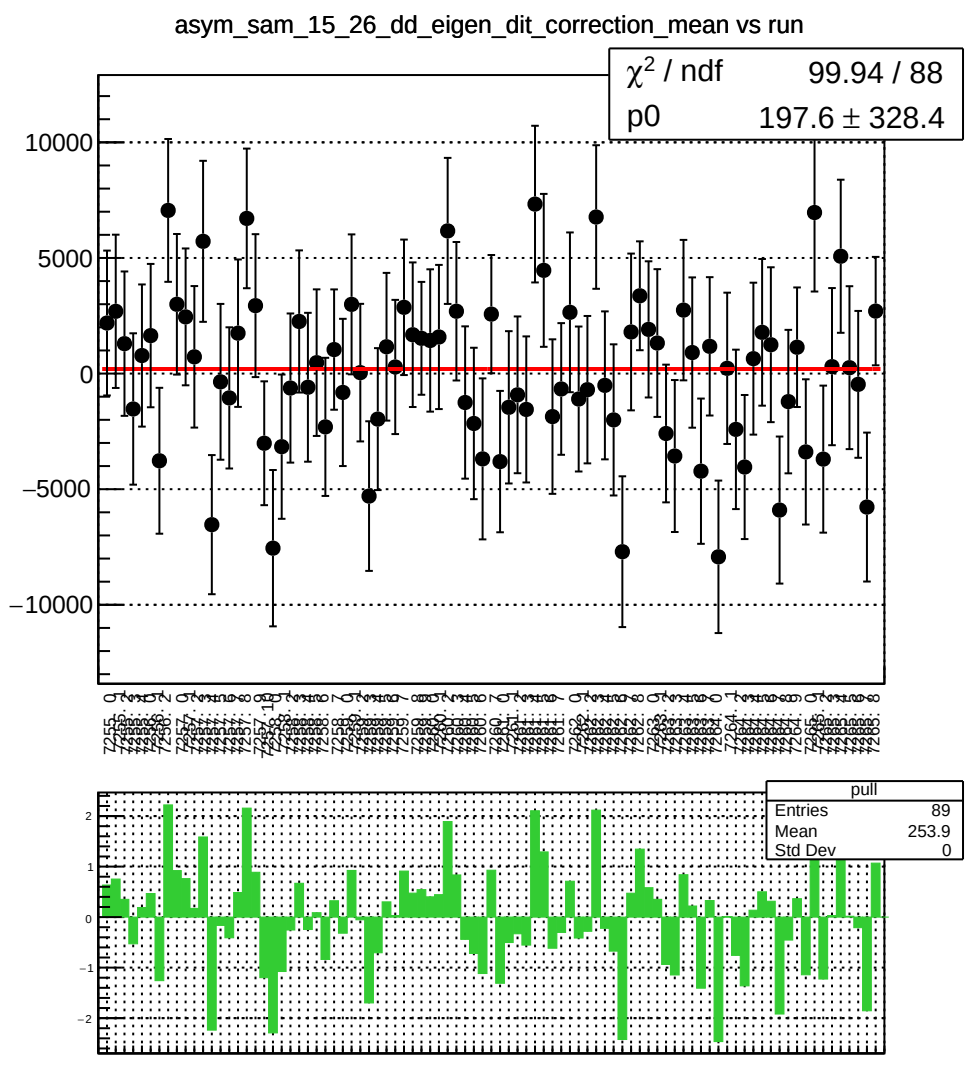

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 99.94 / 88
p0 197.6 ± 328.4
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 253.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01637
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

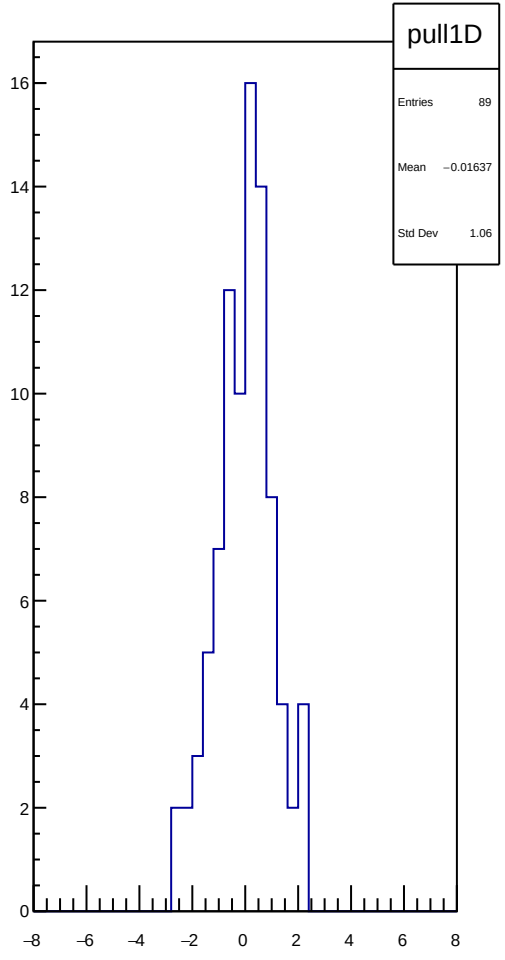

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 3091 / 88
p0 302.1 ± 0.2322
340
330
320
310
300
290
280
270

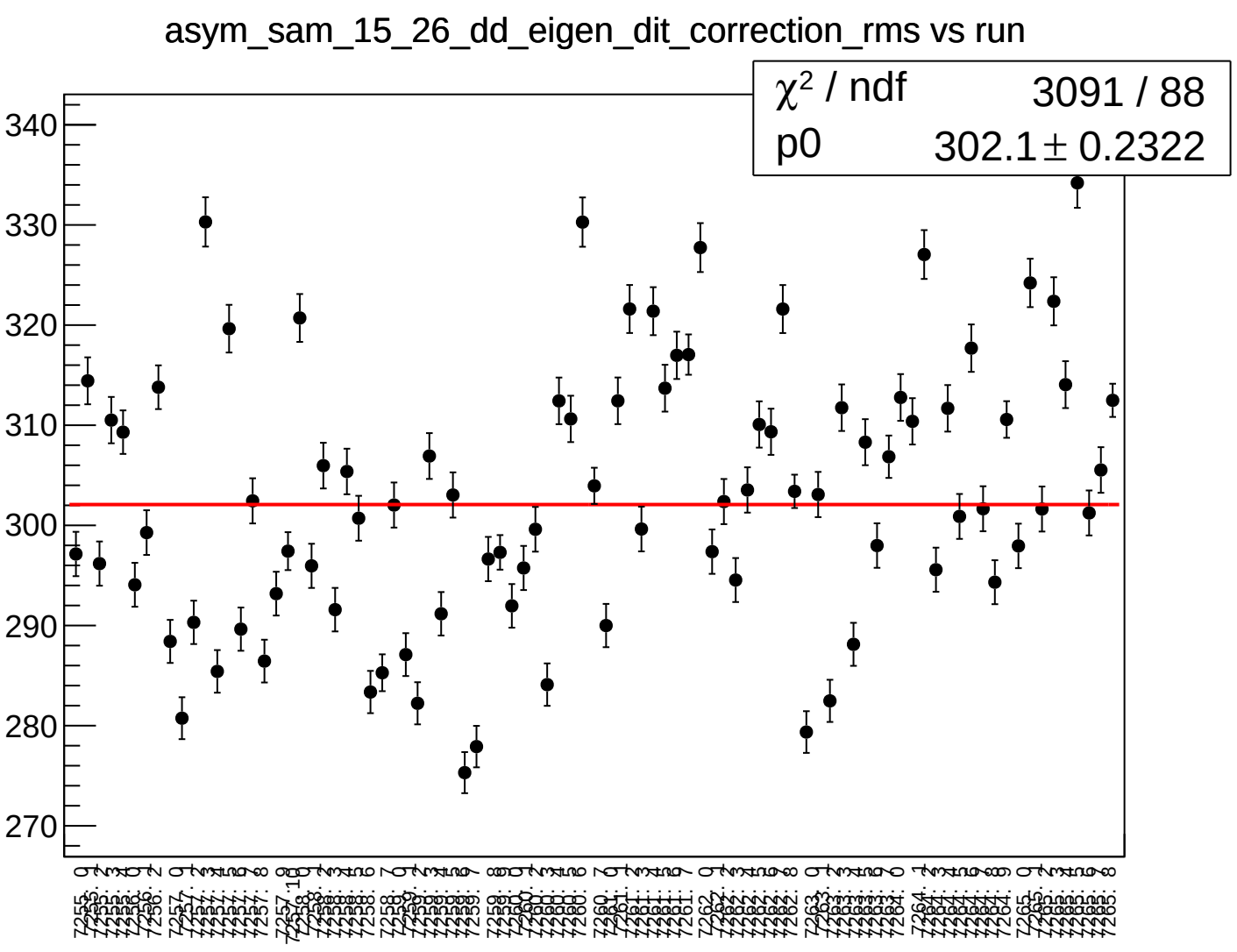

eigen_dit_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 70.25 / 88
p0 80.06 ± 57.79
pull
Entries 89
Mean −364.5
Std Dev 0

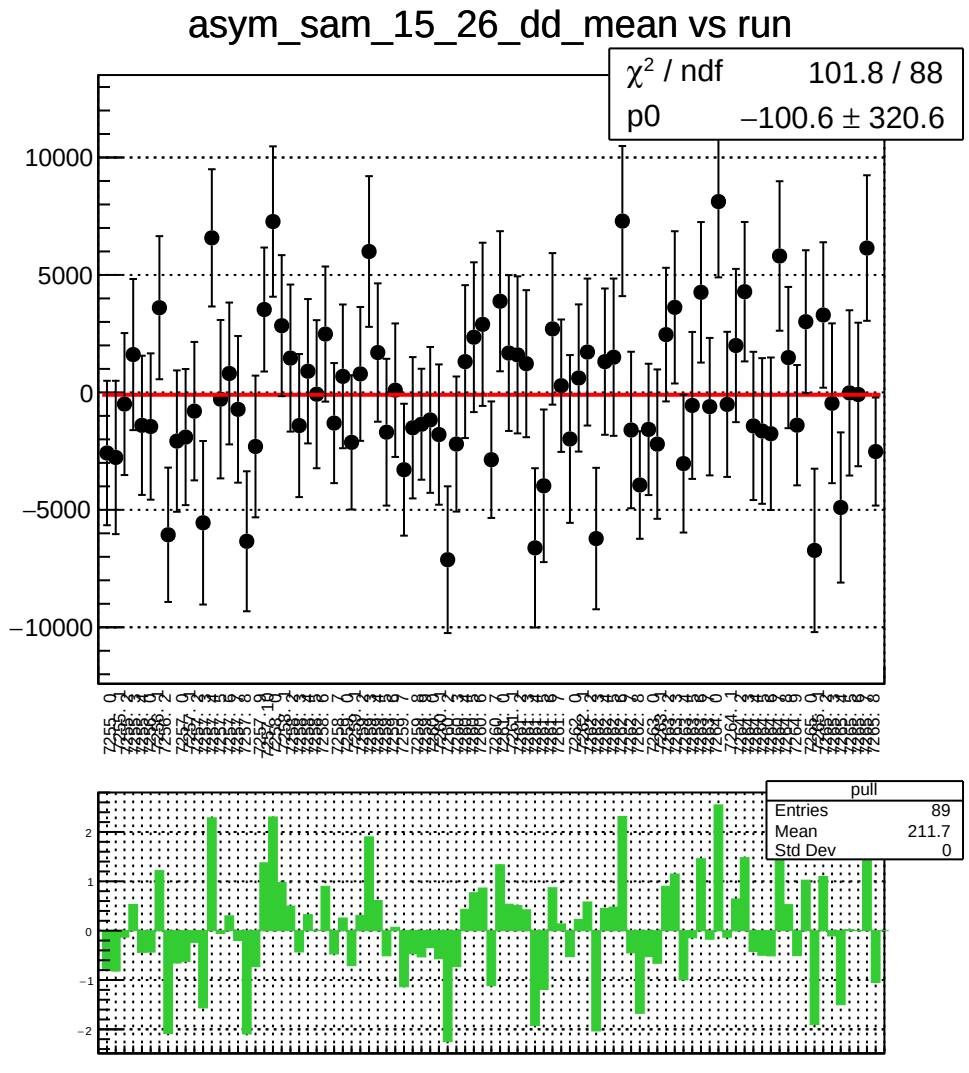

pull1D
Entries 89
Mean 0.01109
Std Dev 0.8884

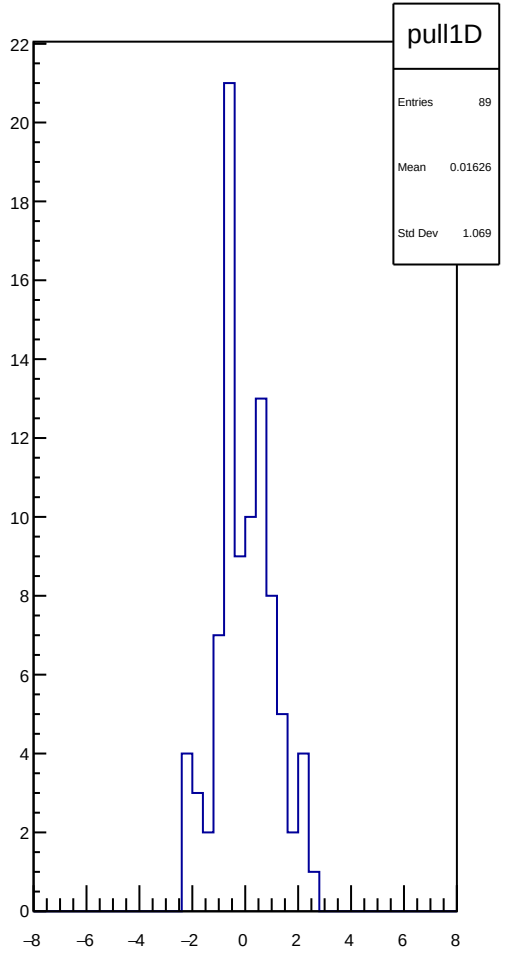

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 654.2 / 88
p0 53.19 ± 0.04086
57
56
55
54
53
52
51

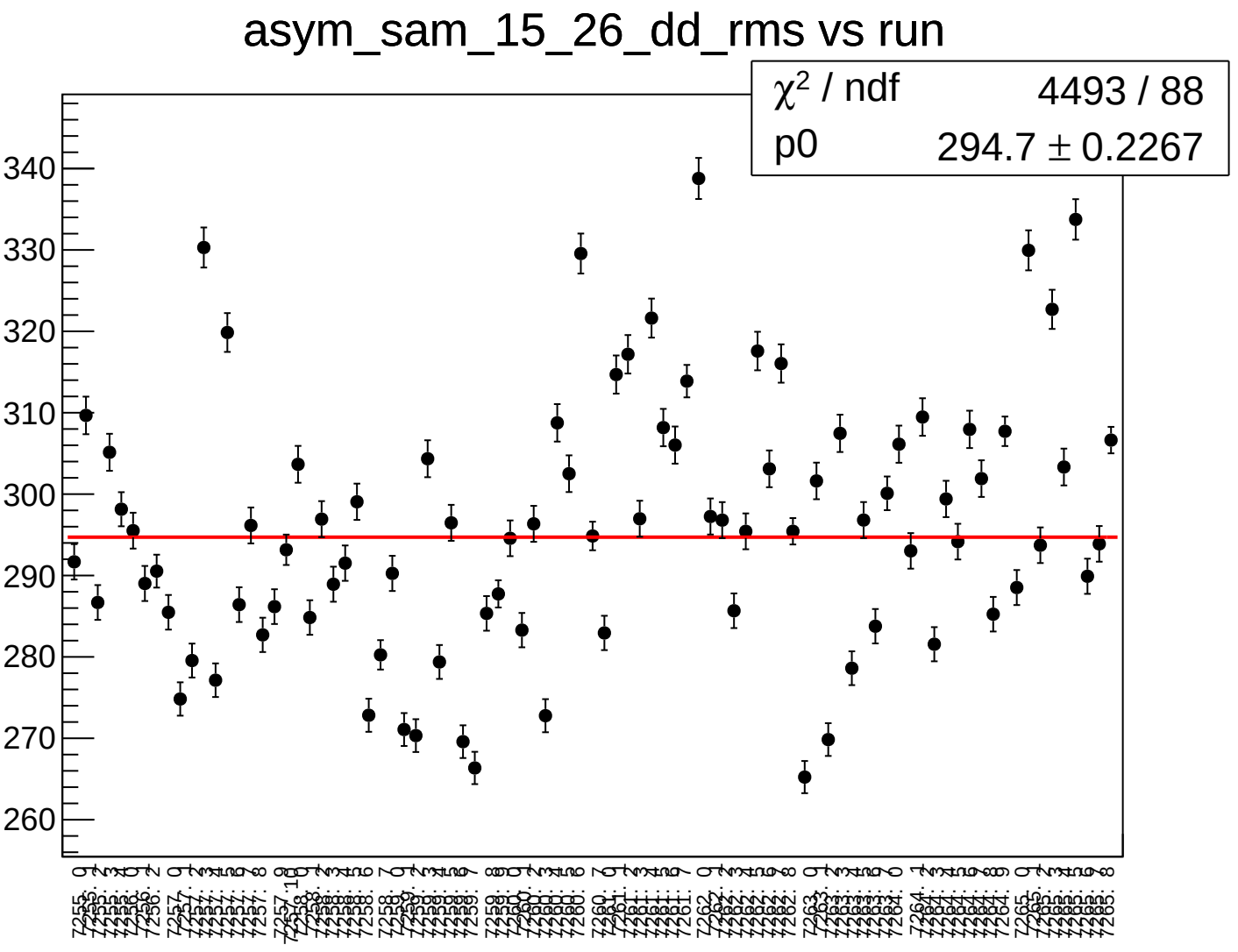

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.94 / 88
p0 197.6 ± 328.4
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 253.9
Std Dev 0
2
1
0
−1
−2

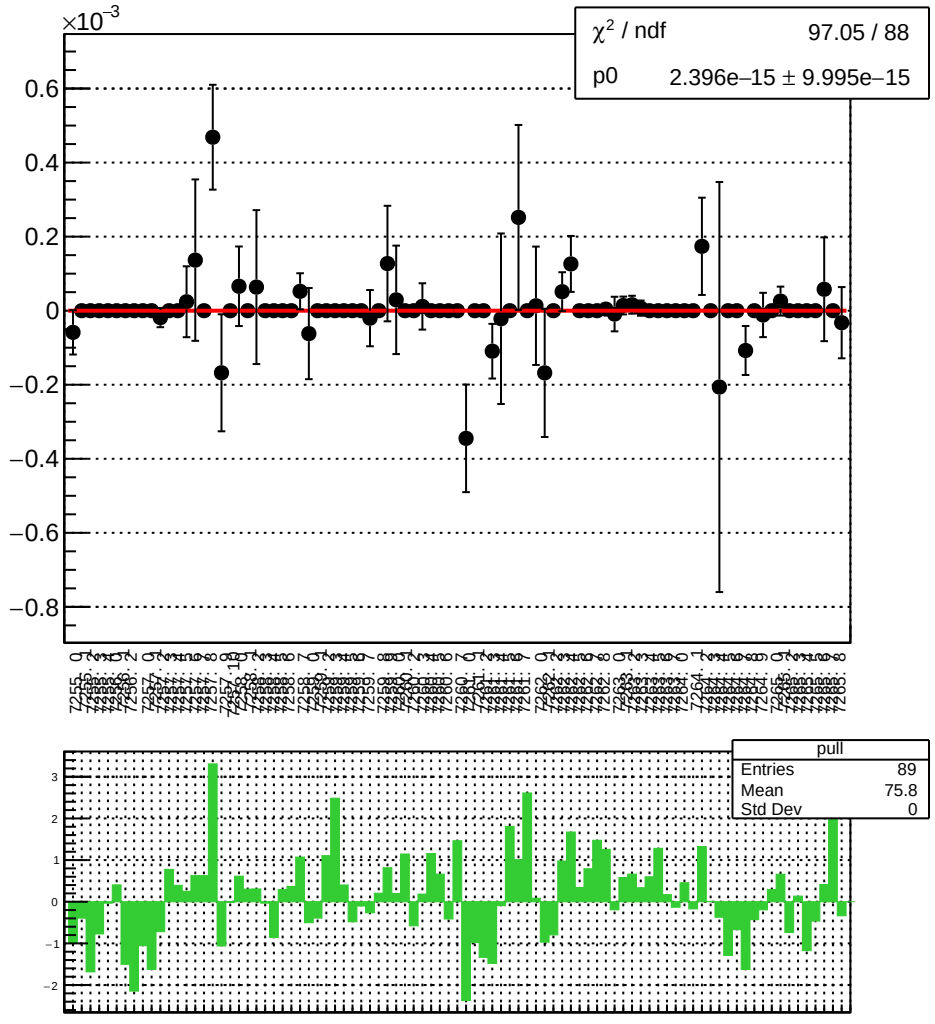

pull1D
Entries 89
Mean −0.01637
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

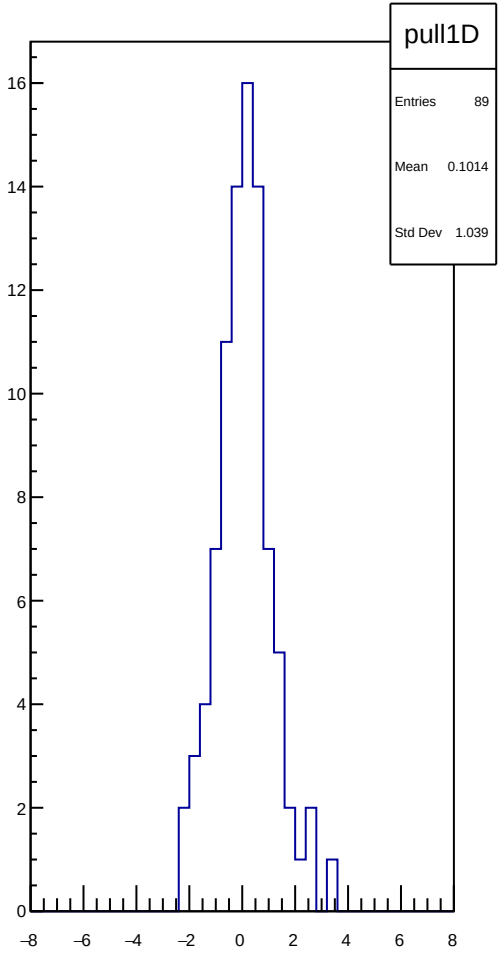

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3091 / 88
p0 302.1 ± 0.2322
340
330
320
310
300
290
280
270

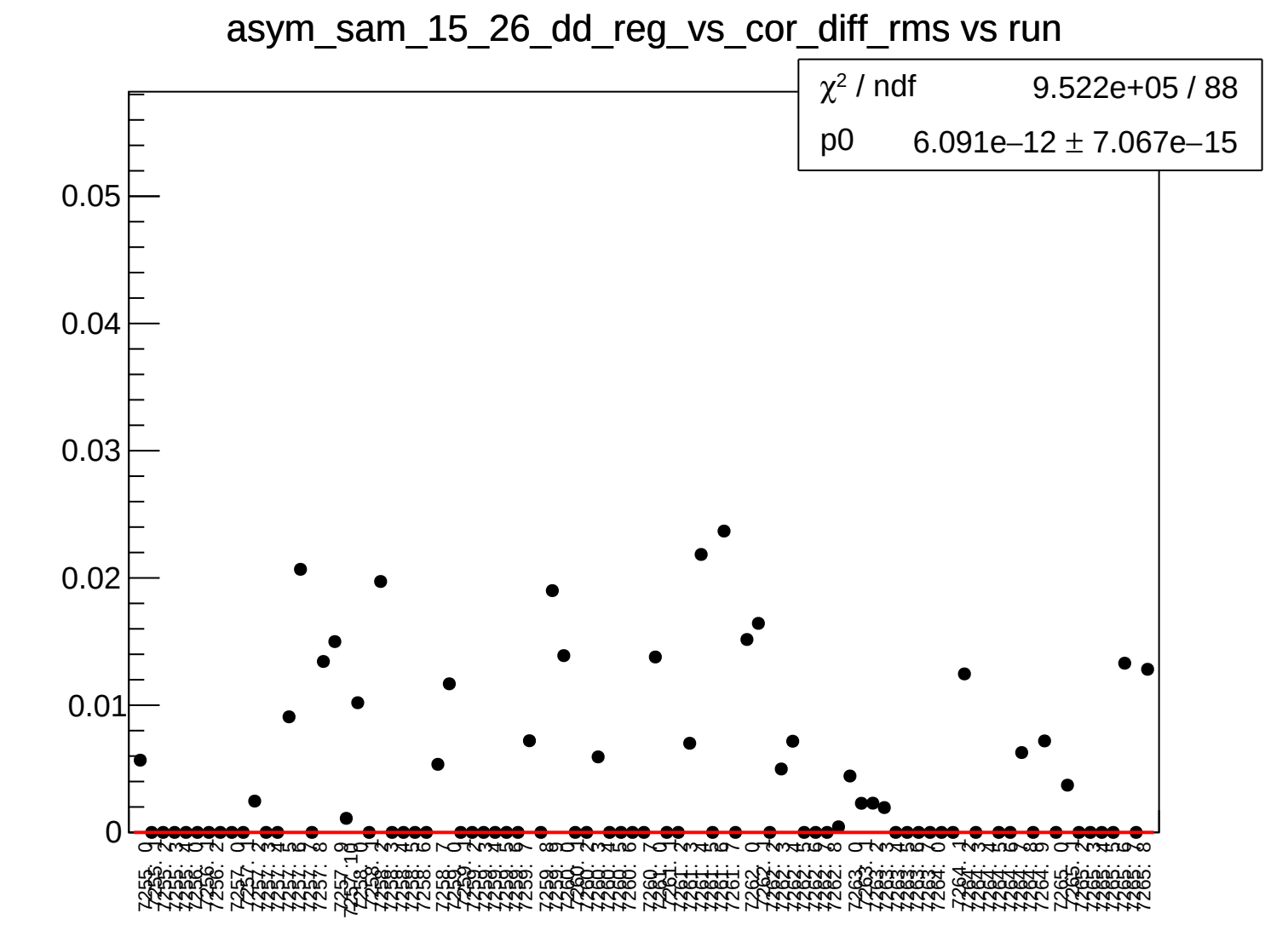

asym_sam_15_26_dd_mean vs run
χ² / ndf 101.8 / 88
p0 −100.6 ± 320.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 211.7
Std Dev 0
2
1
0
−1
−2

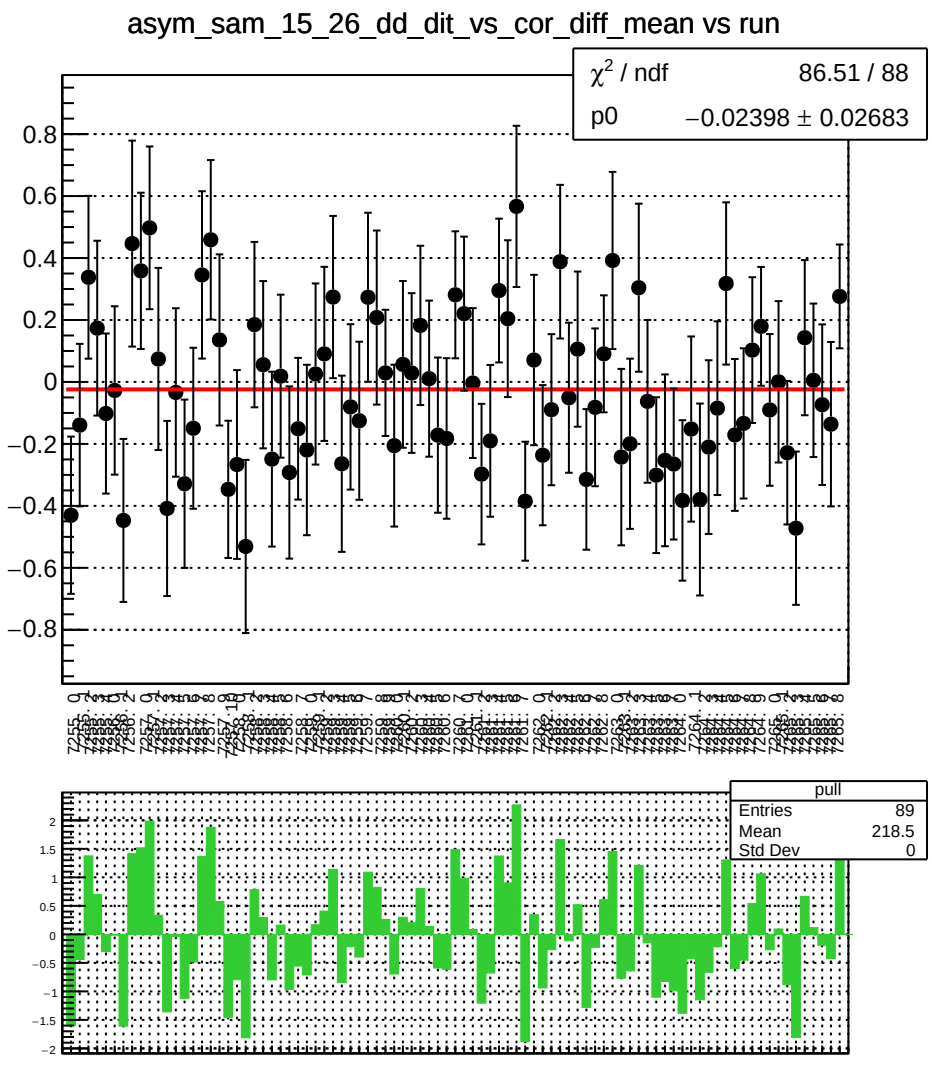

pull1D
Entries 89
Mean 0.01626
Std Dev 1.069
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

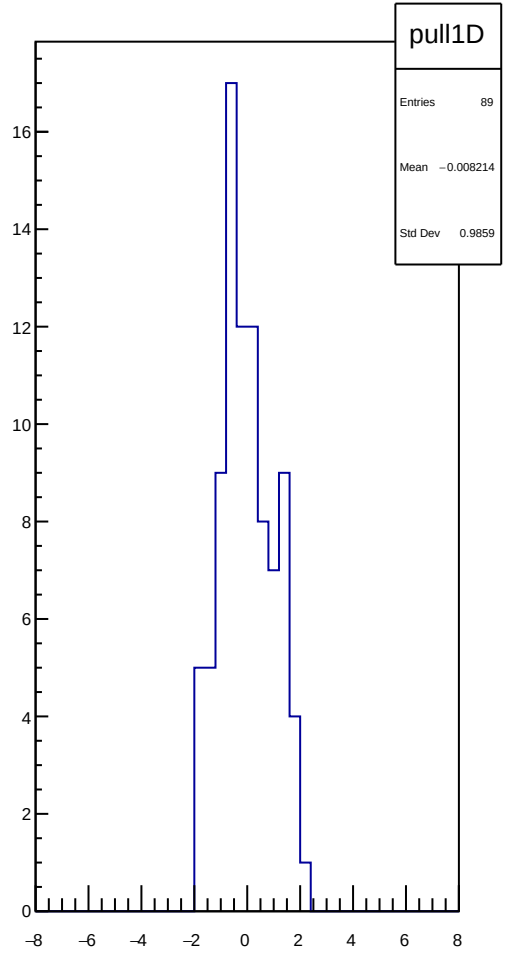

asym_sam_15_26_dd_rms vs run
χ² / ndf 4493 / 88
p0 294.7 ± 0.2267
340
330
320
310
300
290
280
270
260

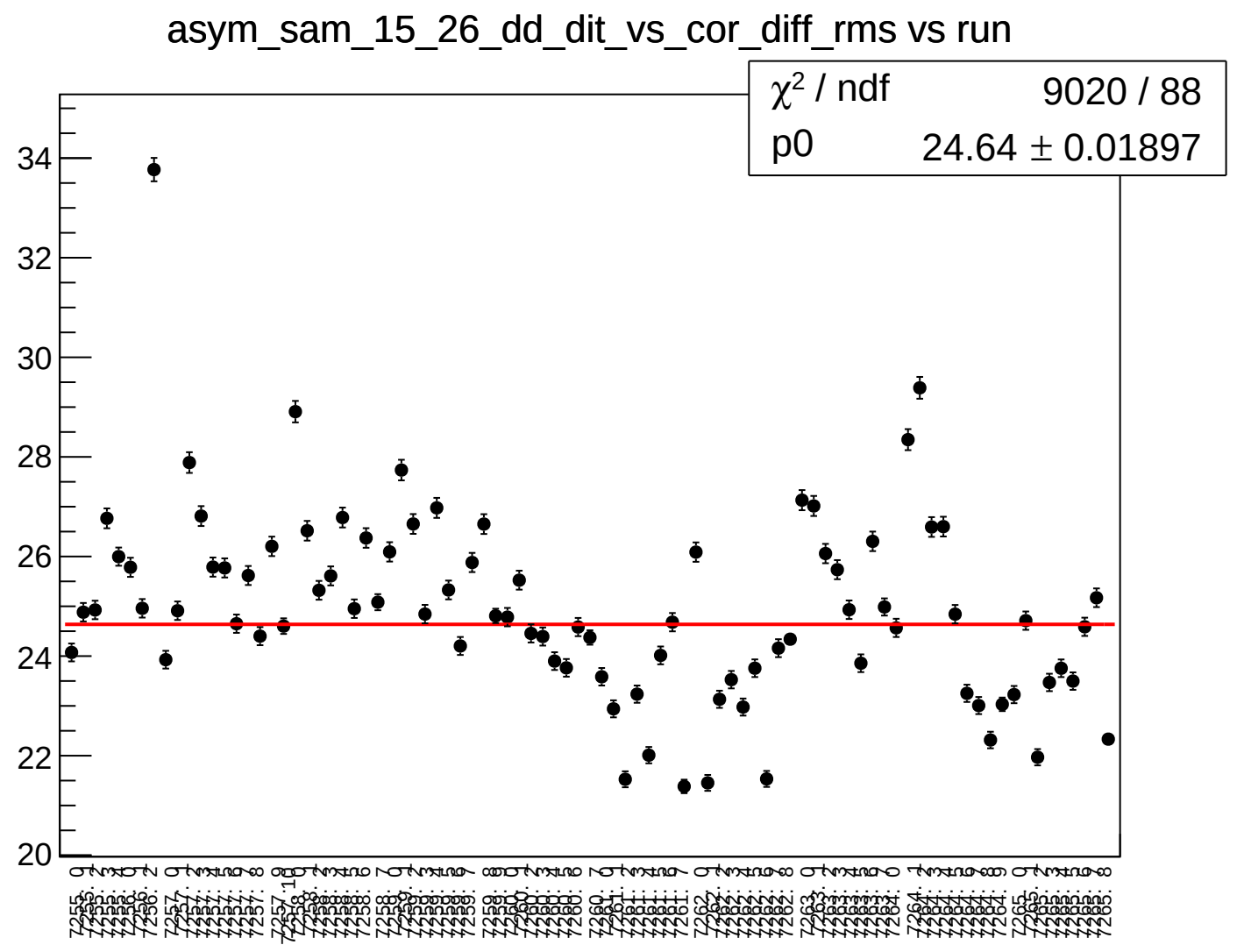

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 97.05 / 88
p0 2.396e−15 ± 9.995e−15
pull
Entries 89
Mean 75.8
Std Dev 0

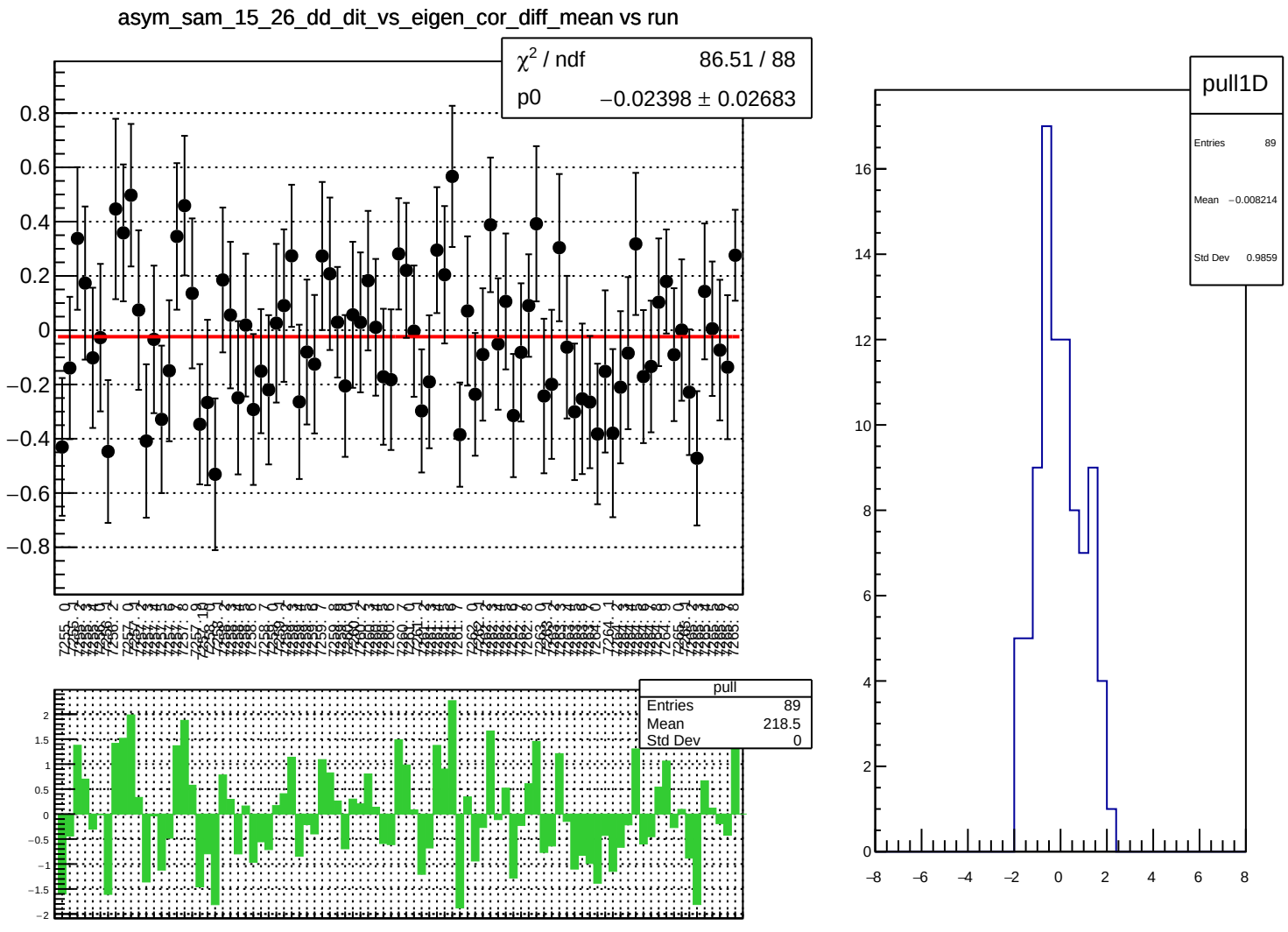

pull1D
Entries 89
Mean 0.1014
Std Dev 1.039

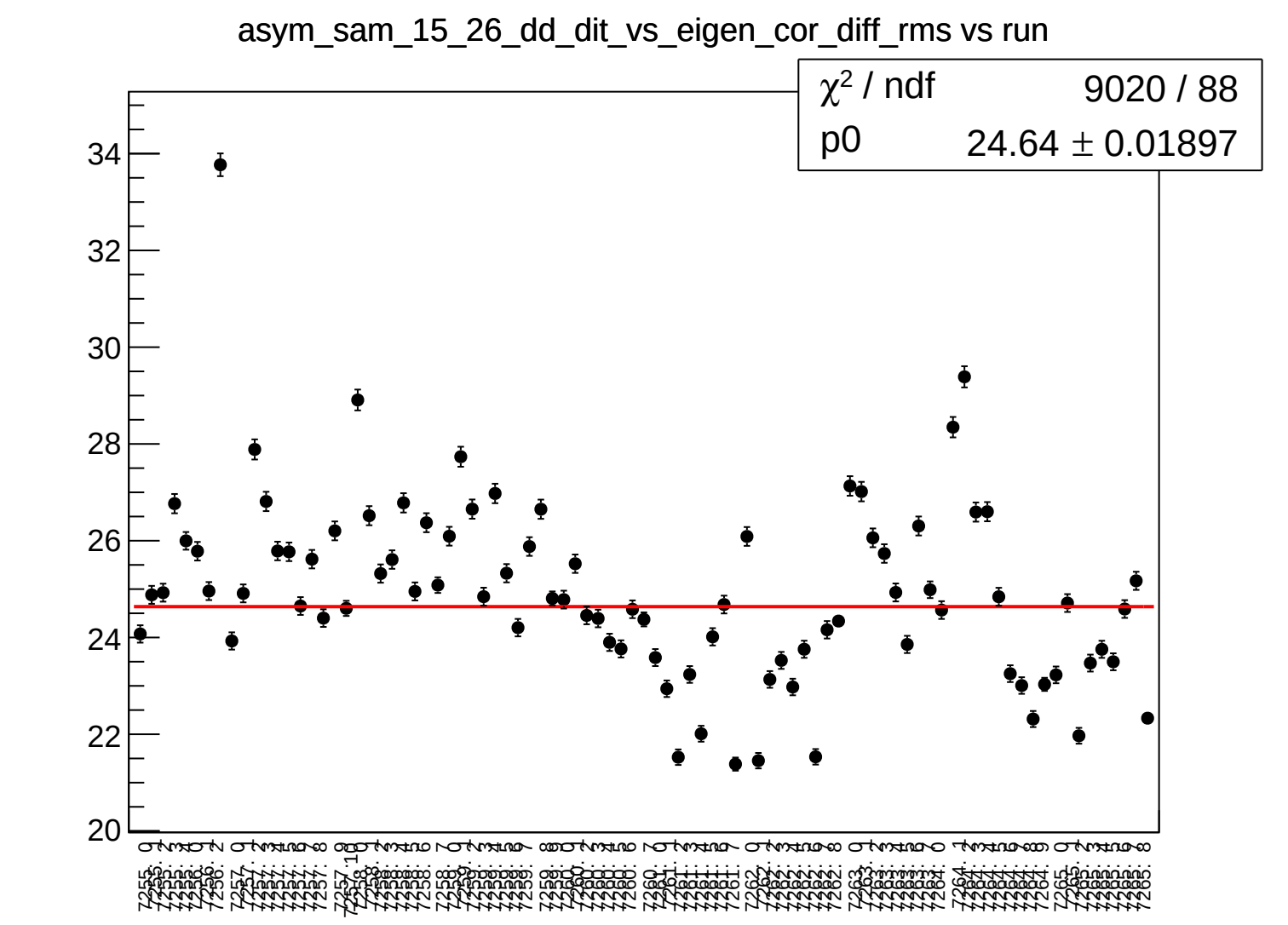

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.522e+05 / 88
p0 6.091e−12 ± 7.067e−15
0.05
0.04
0.03
0.02
0.01
0

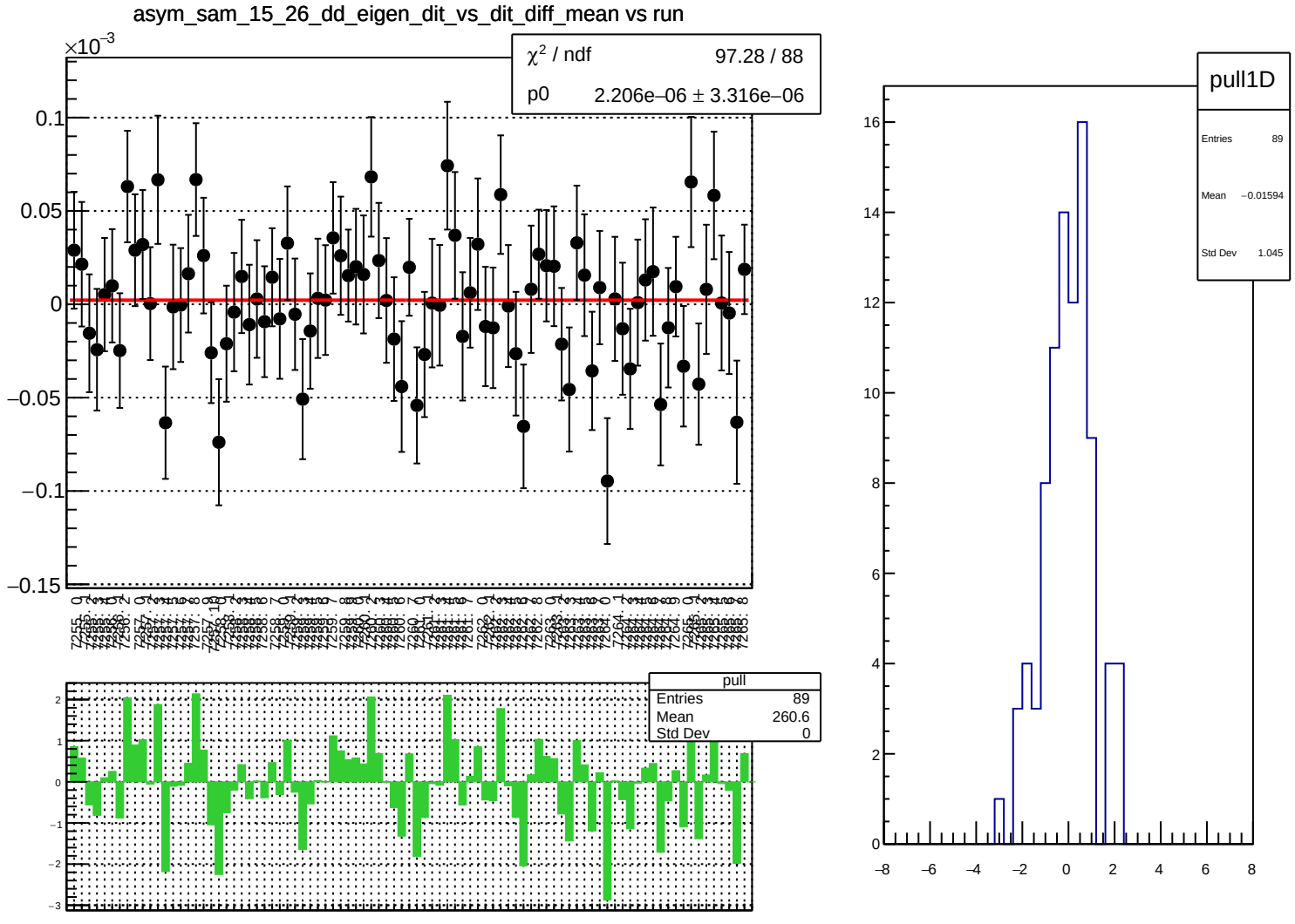

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.51 / 88
p0 −0.02398 ± 0.02683
pull
Entries 89
Mean 218.5
Std Dev 0

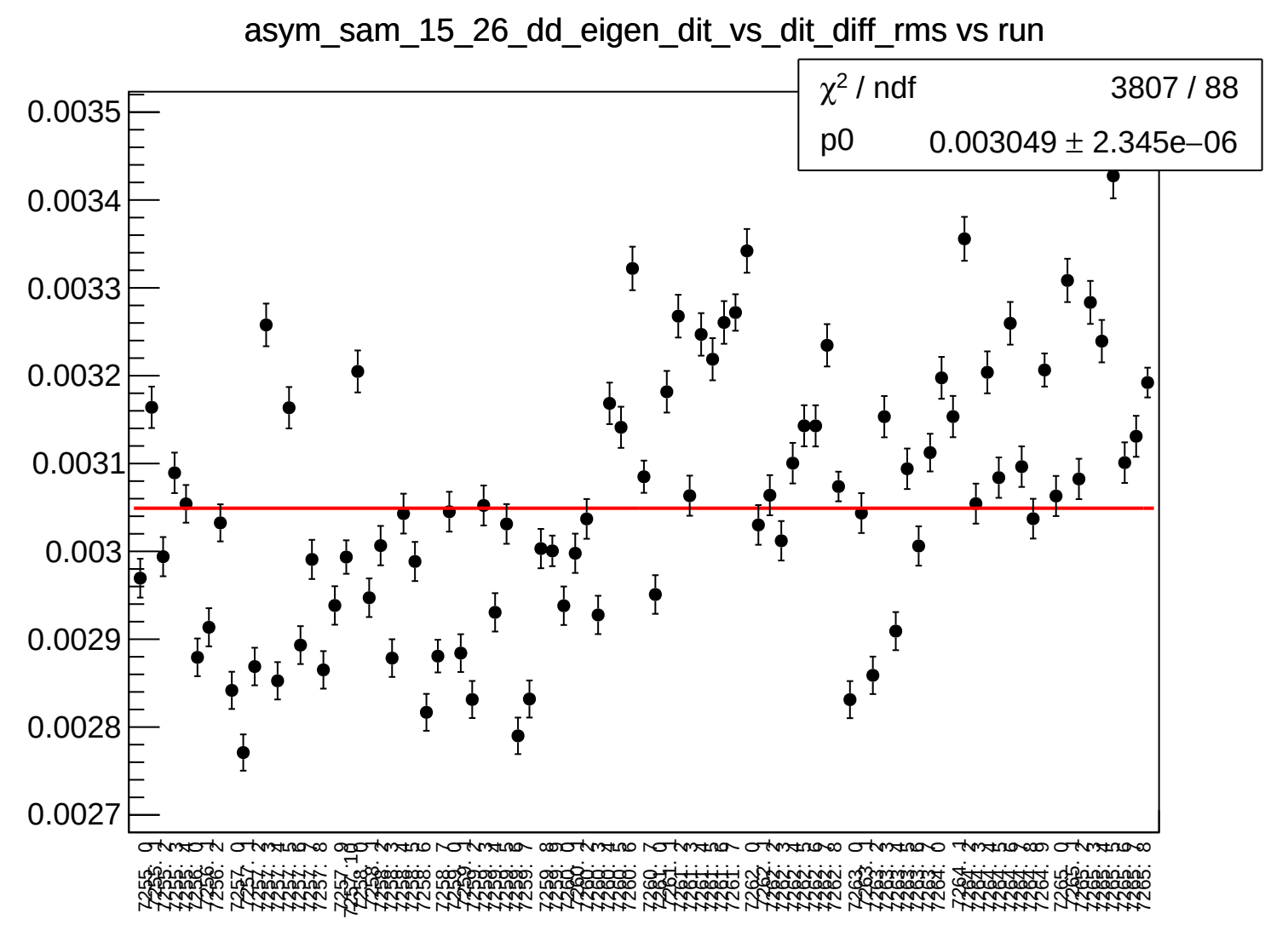

pull1D
Entries 89
Mean −0.008214
Std Dev 0.9859

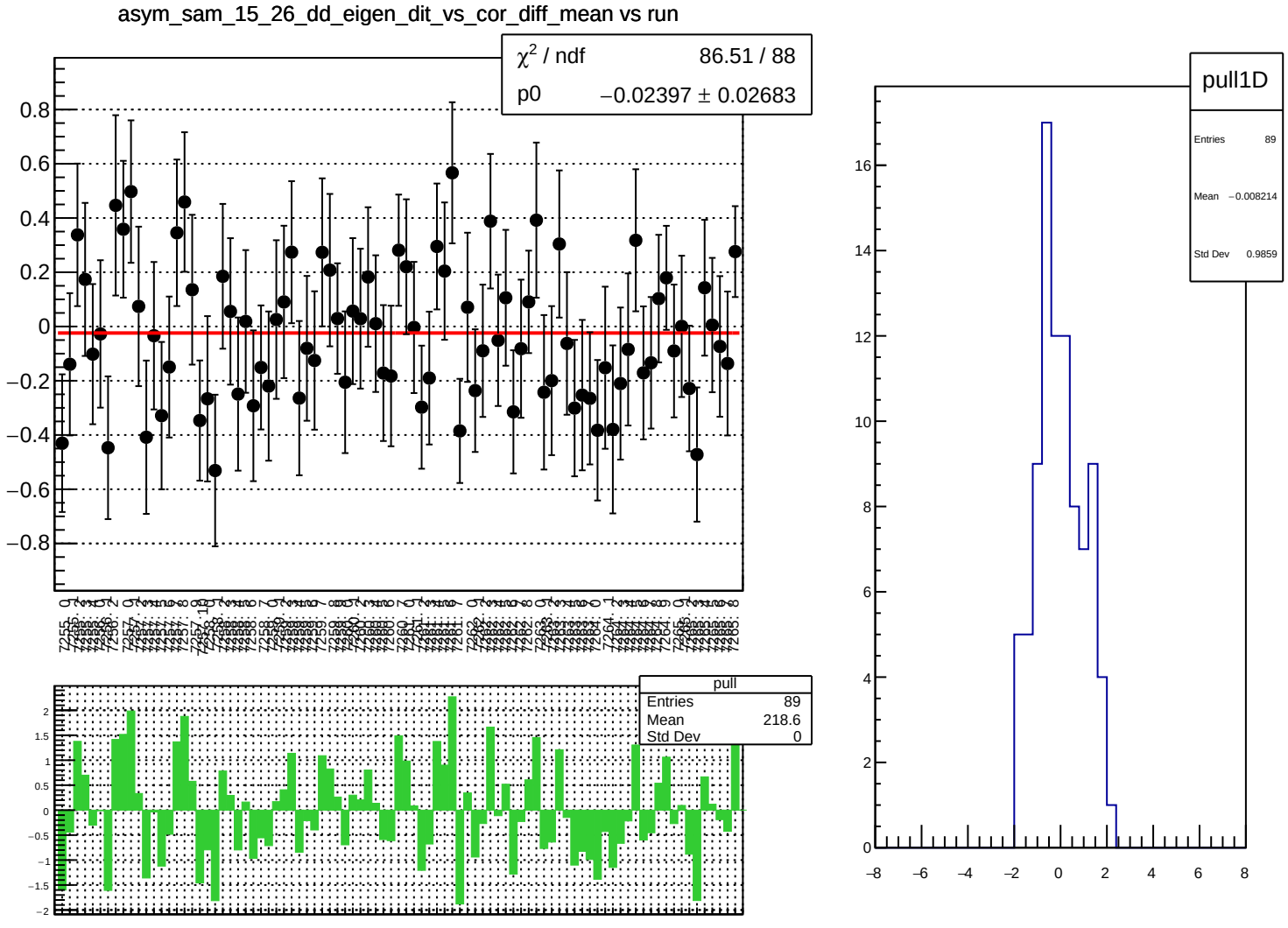

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9020 / 88
p0 24.64 ± 0.01897
34
32
30
28
26
24
22
20

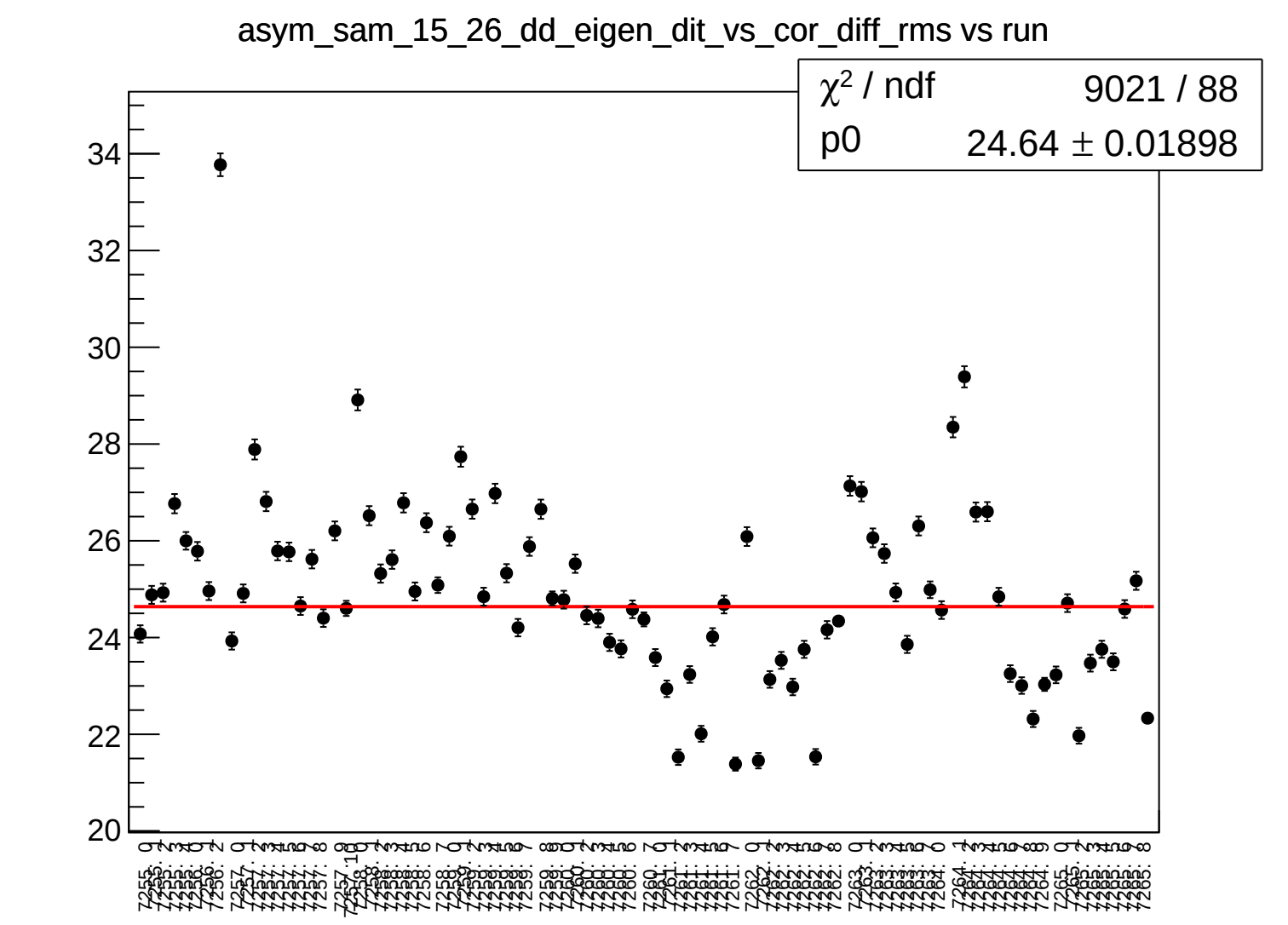

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.51 / 88
p0 −0.02398 ± 0.02683
pull
Entries 89
Mean 218.5
Std Dev 0
pull1D
Entries 89
Mean −0.008214
Std Dev 0.9859

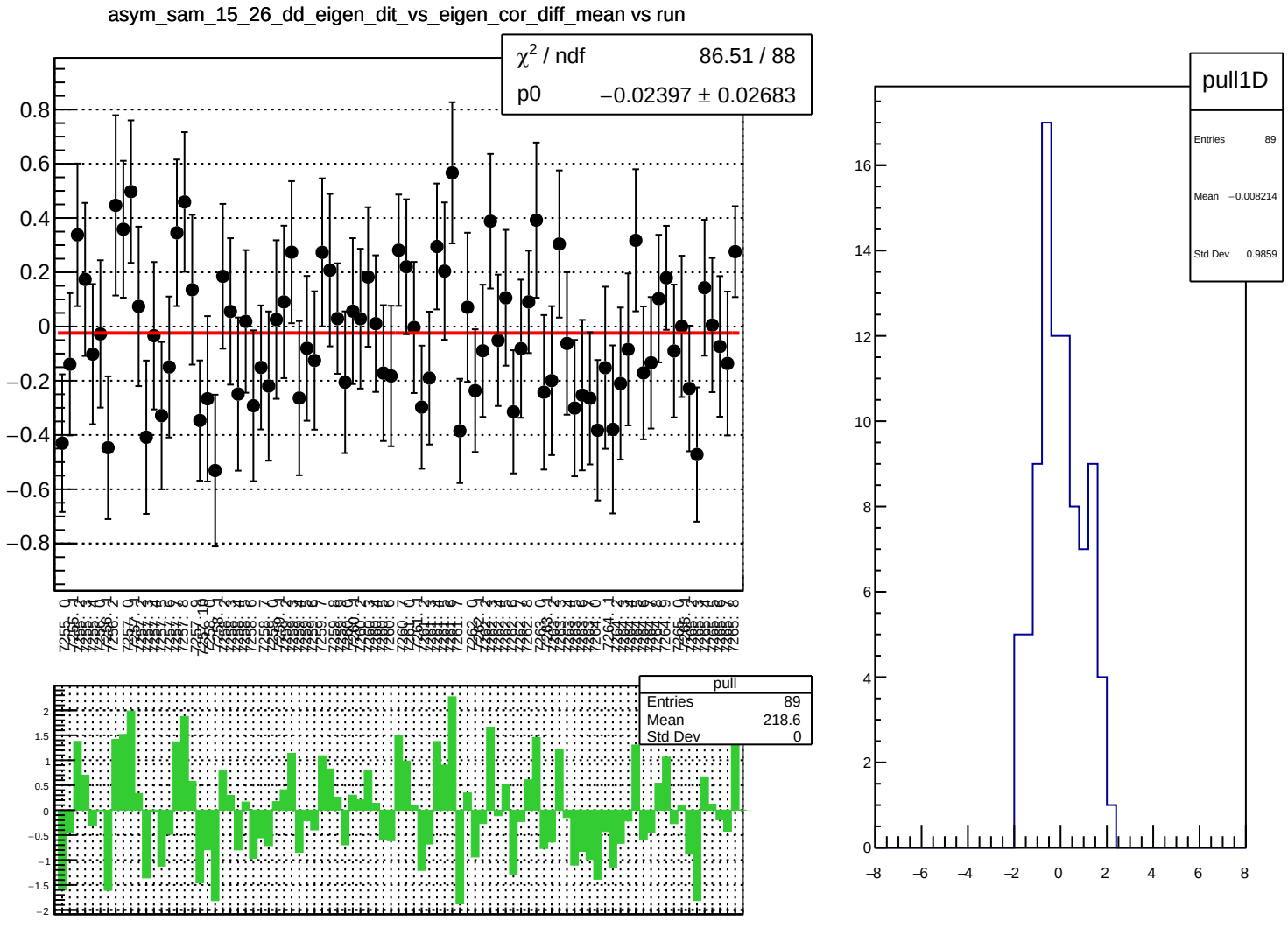

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9020 / 88
p0 24.64 ± 0.01897
34
32
30
28
26
24
22
20

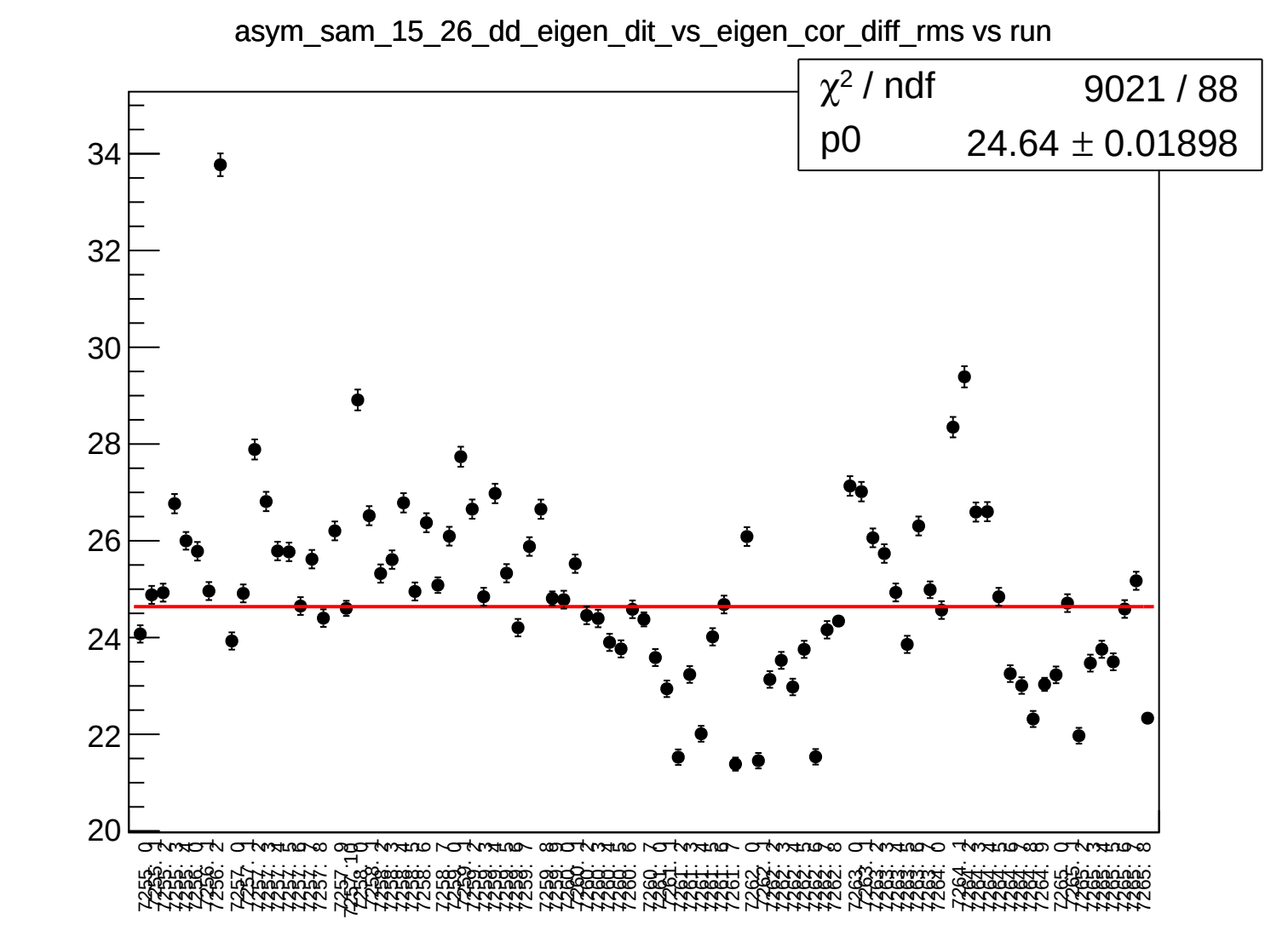

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.28 / 88
p0 2.206e−06 ± 3.316e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean 260.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01594
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

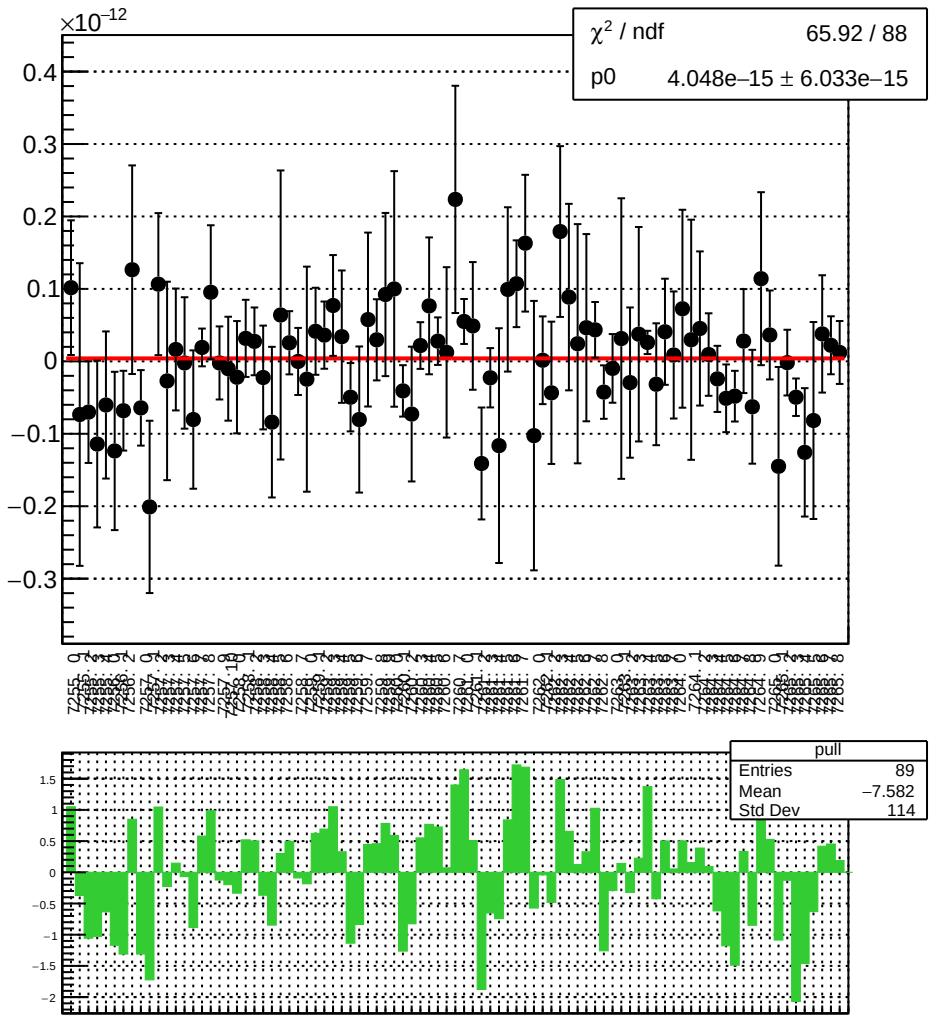

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3807 / 88
p0 0.003049 ± 2.345e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027

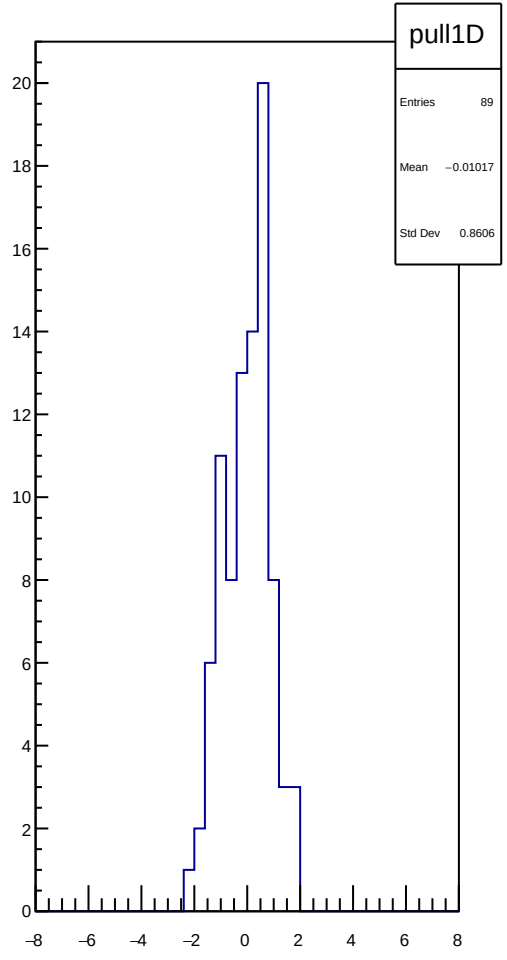

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.51 / 88
p0 −0.02397 ± 0.02683
pull
Entries 89
Mean 218.6
Std Dev 0
pull1D
Entries 89
Mean −0.008214
Std Dev 0.9859

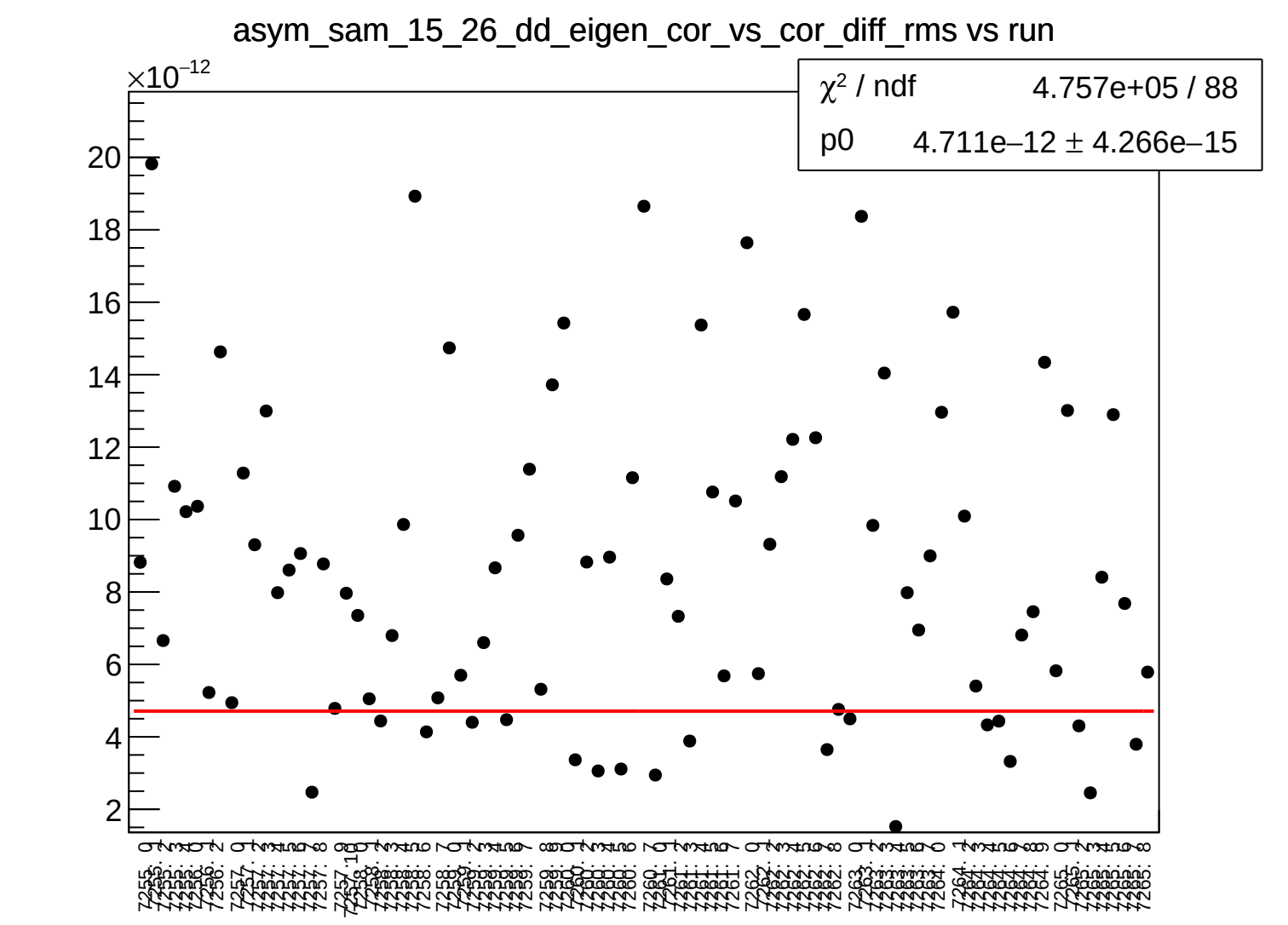

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9021 / 88
p0 24.64 ± 0.01898
34
32
30
28
26
24
22
20

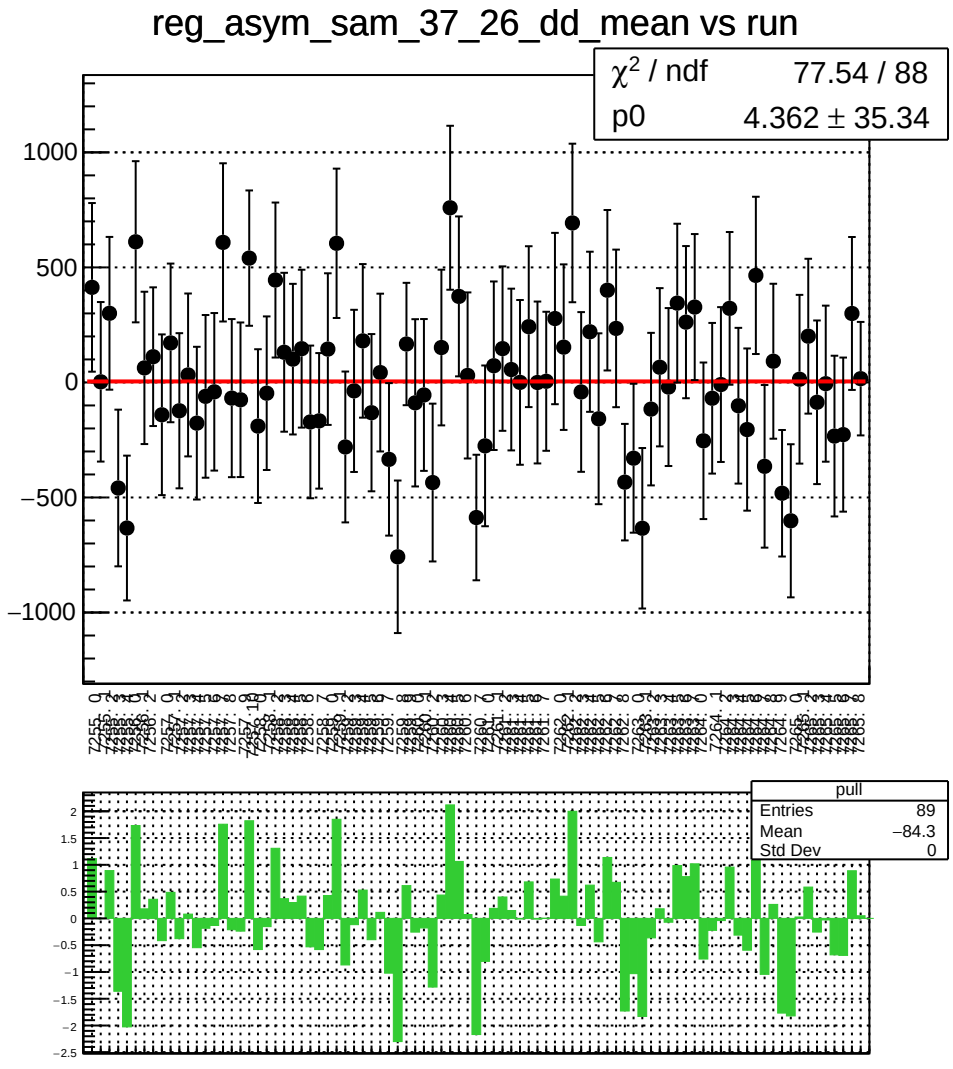

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.51 / 88
p0 −0.02397 ± 0.02683
pull
Entries 89
Mean 218.6
Std Dev 0
pull1D
Entries 89
Mean −0.008214
Std Dev 0.9859

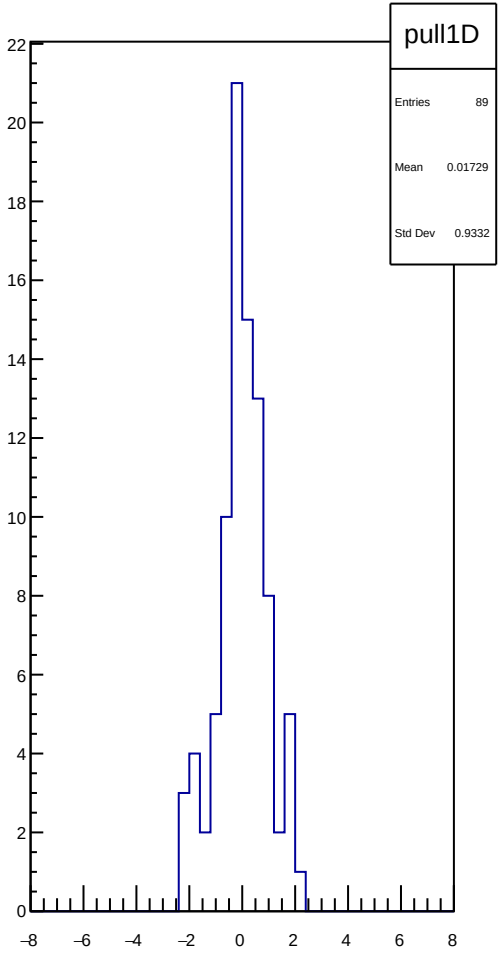

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9021 / 88
p0 24.64 ± 0.01898
34
32
30
28
26
24
22
20

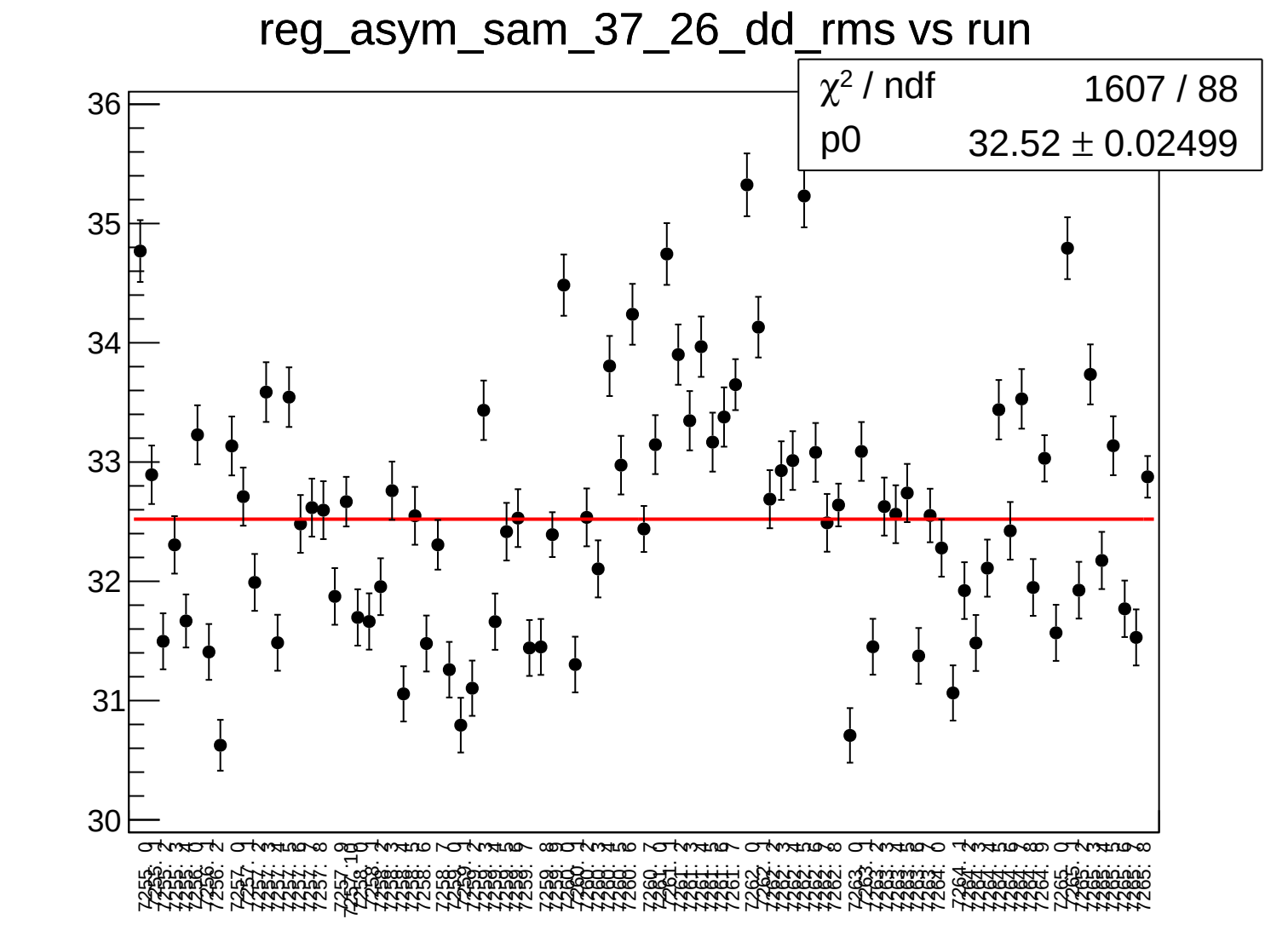

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.92 / 88
p0 4.048e−15 ± 6.033e−15
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 89
Mean −7.582
Std Dev 114
1.5
1
0.5
0
−0.5
−1
−1.5
−2

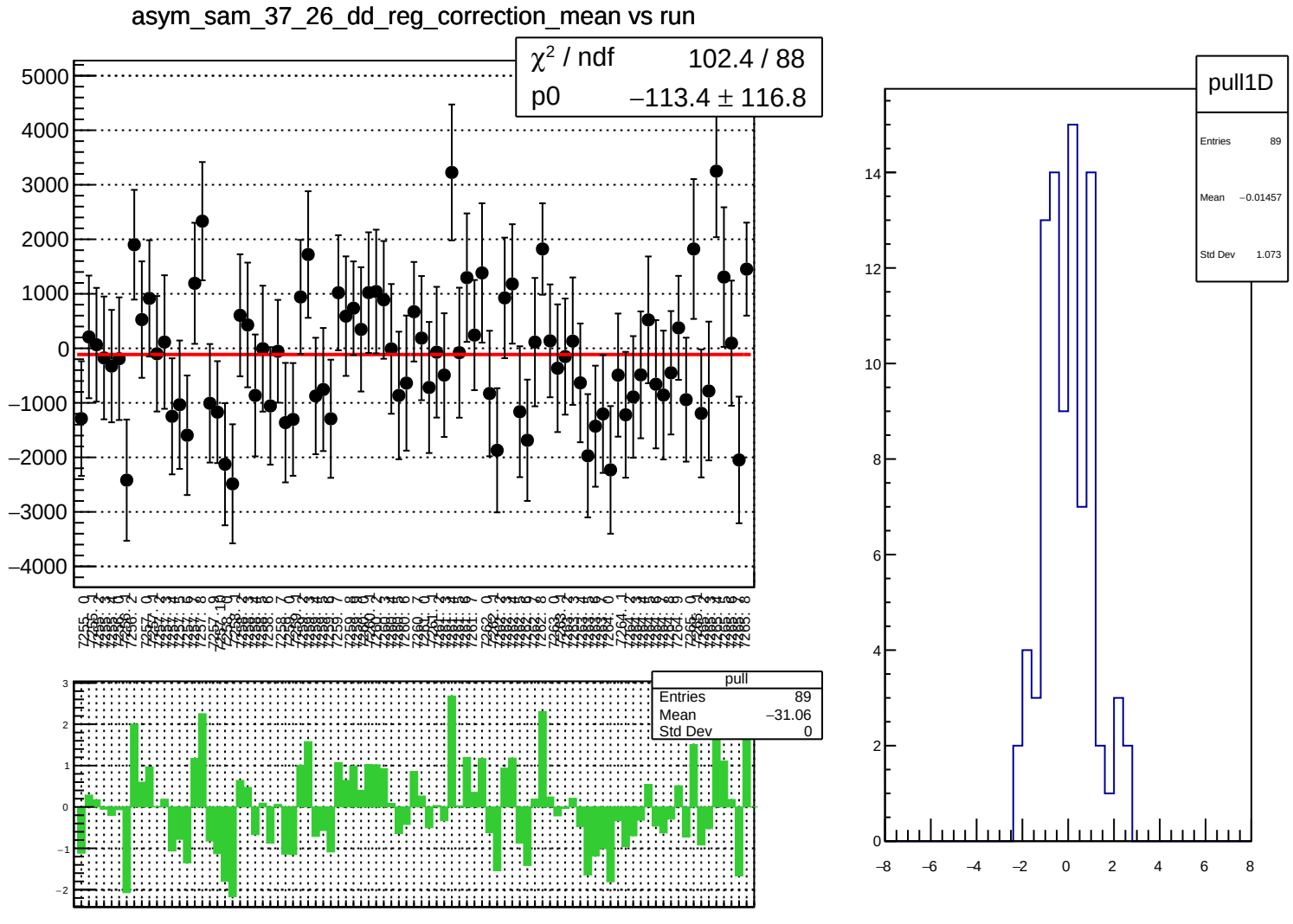

pull1D
Entries 89
Mean −0.01017
Std Dev 0.8606
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

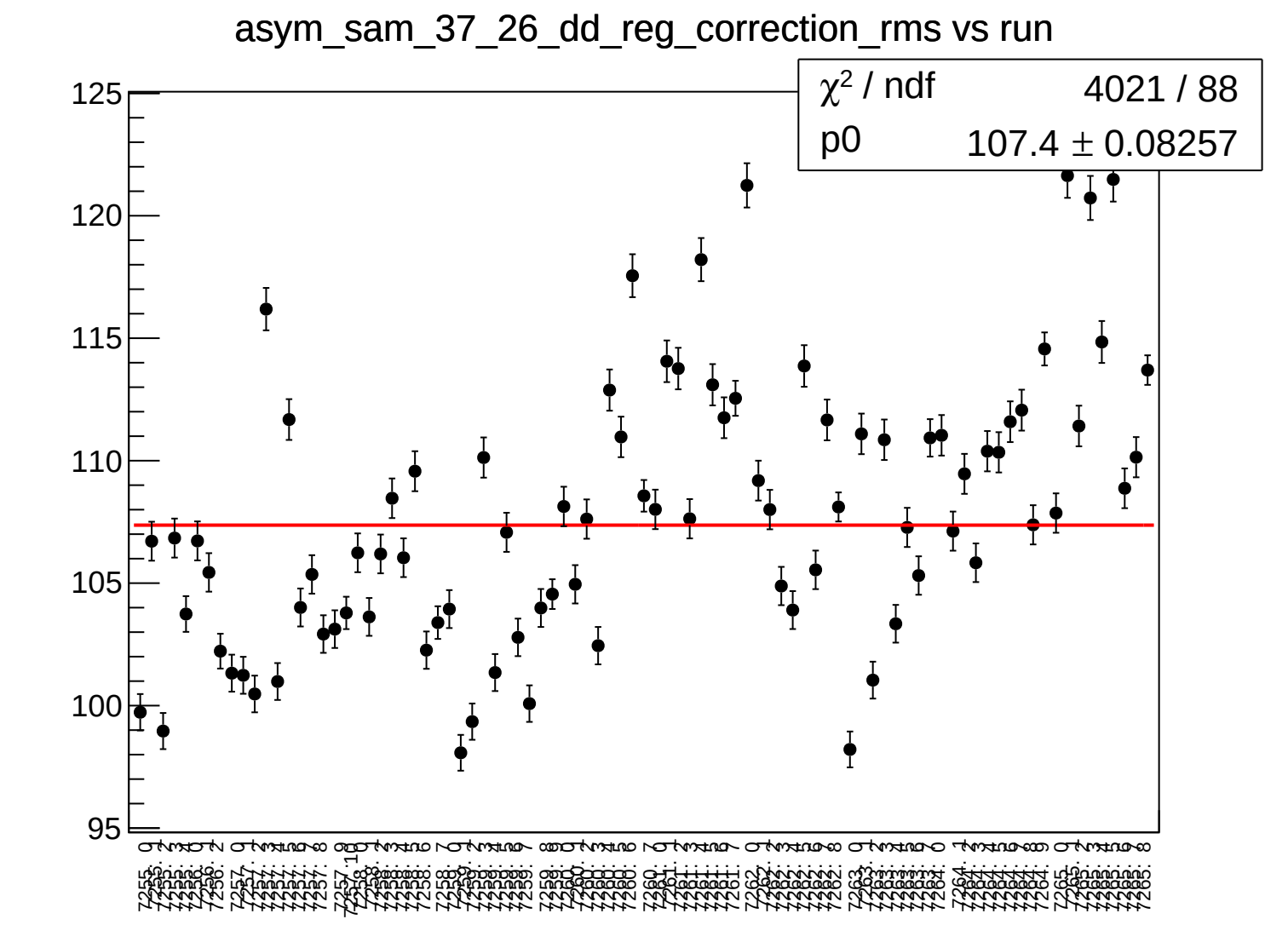

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.757e+05 / 88
p0 4.711e−12 ± 4.266e−15
20
18
16
14
12
10
8
6
4
2

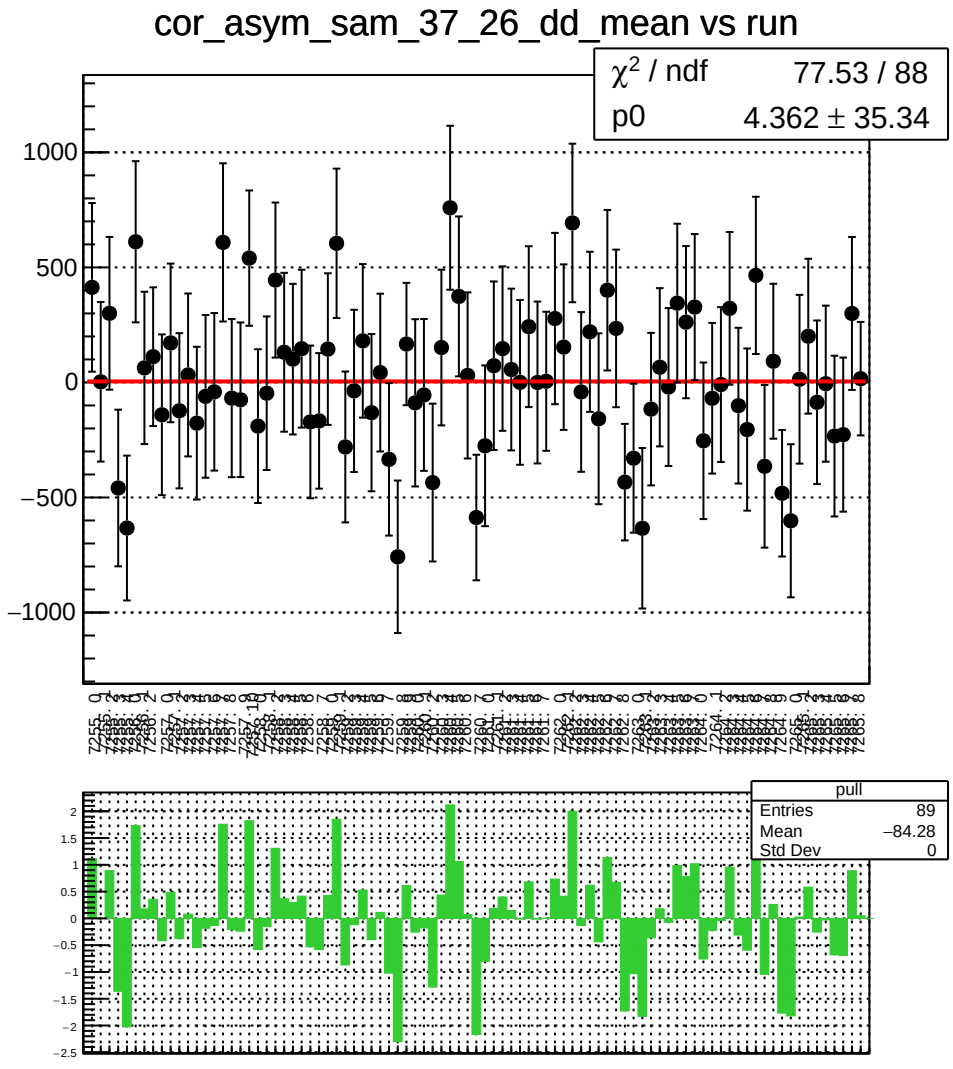

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 77.54 / 88
p0 4.362 ± 35.34
pull
Entries 89
Mean −84.3
Std Dev 0

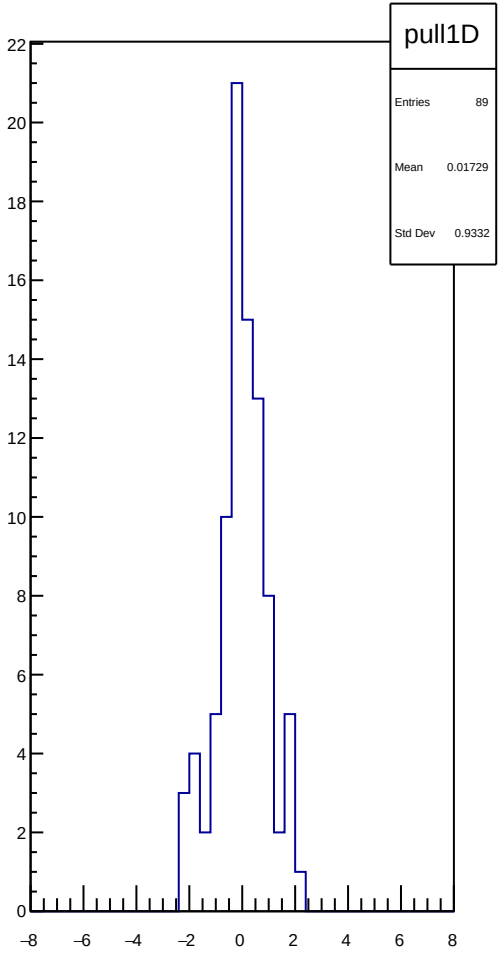

pull1D
Entries 89
Mean 0.01729
Std Dev 0.9332

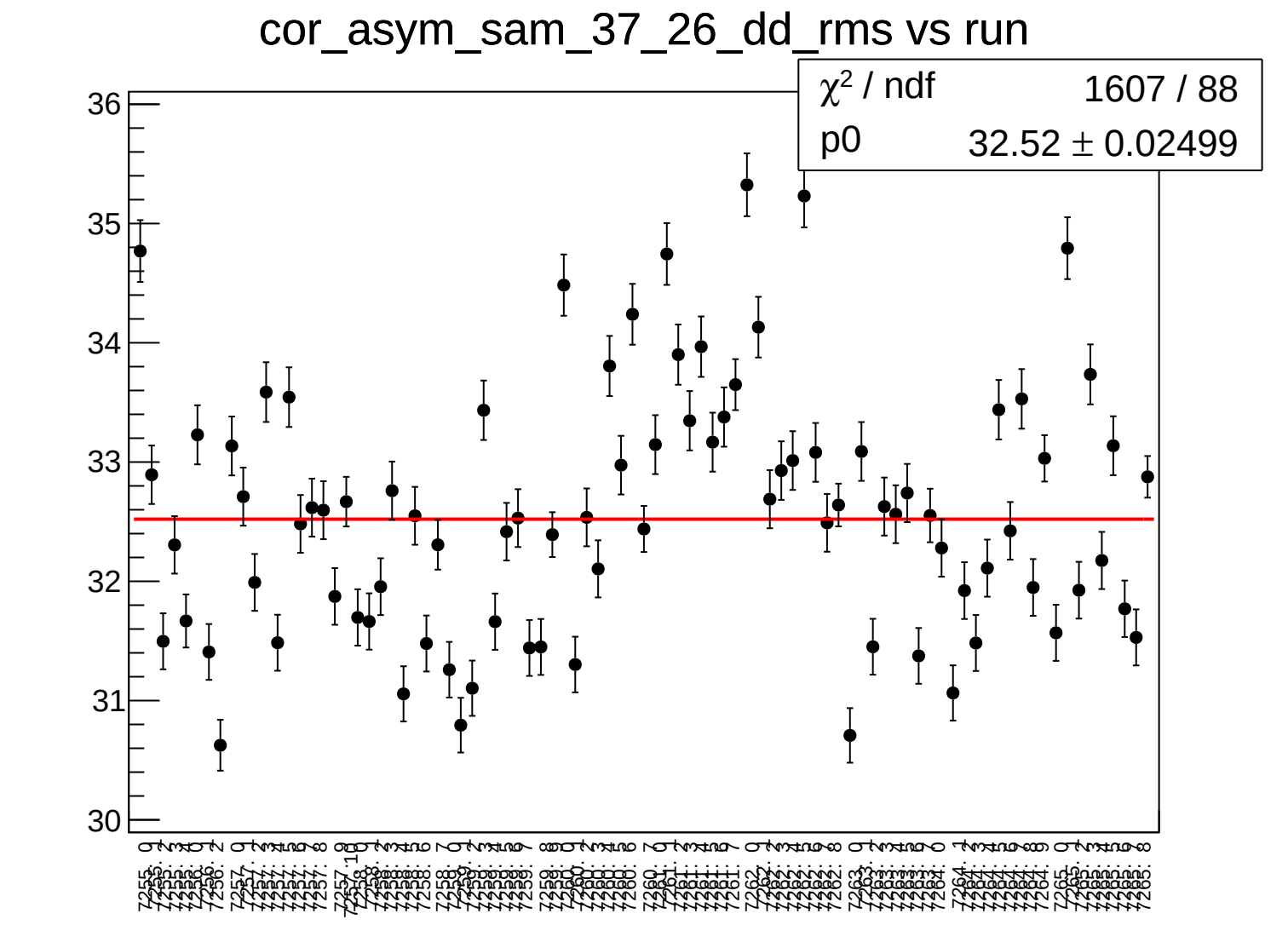

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1607 / 88
p0 32.52 ± 0.02499
36
35
34
33
32
31
30

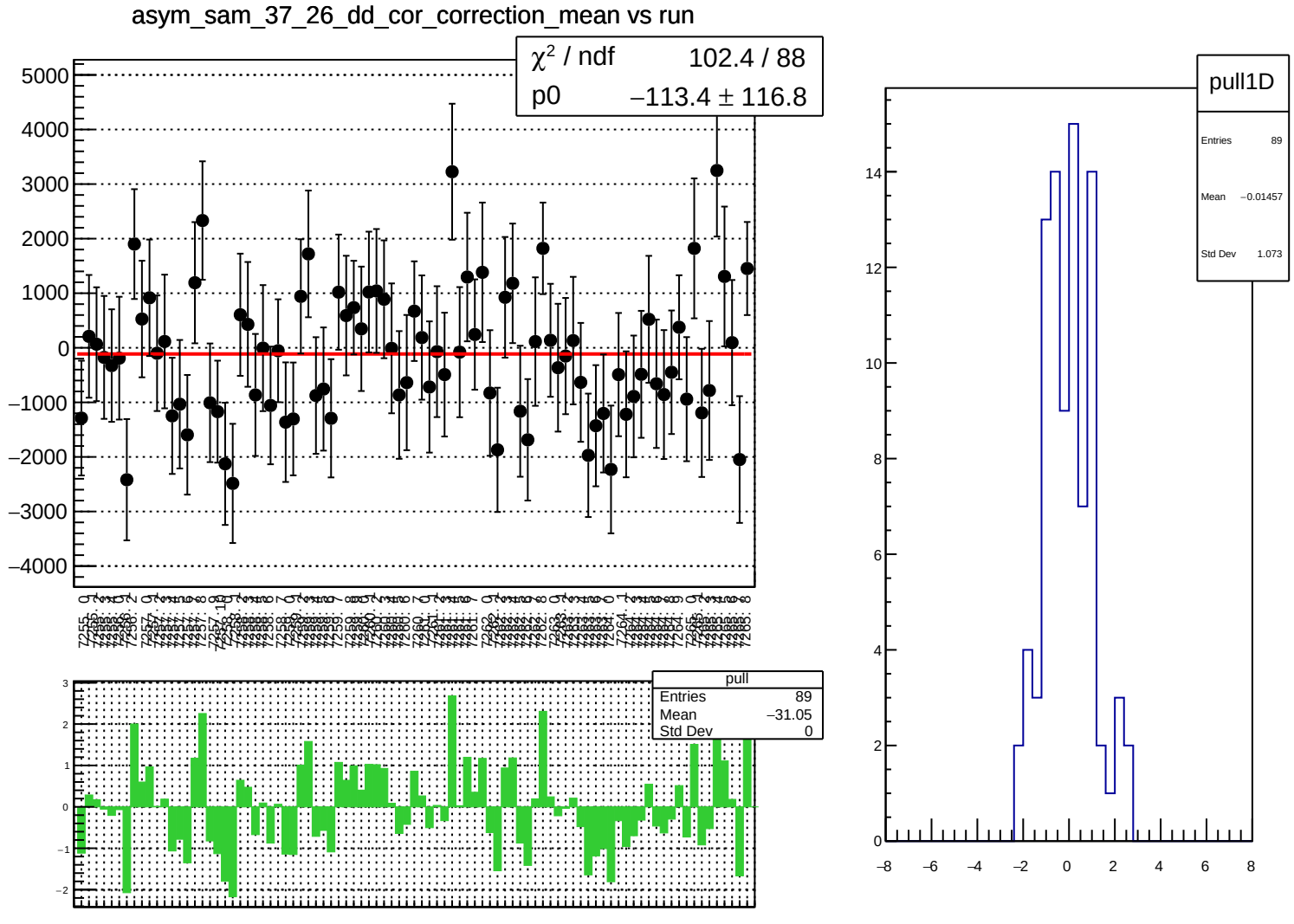

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 102.4 / 88
p0 −113.4 ± 116.8
pull
Entries 89
Mean −31.06
Std Dev 0
pull1D
Entries 89
Mean −0.01457
Std Dev 1.073

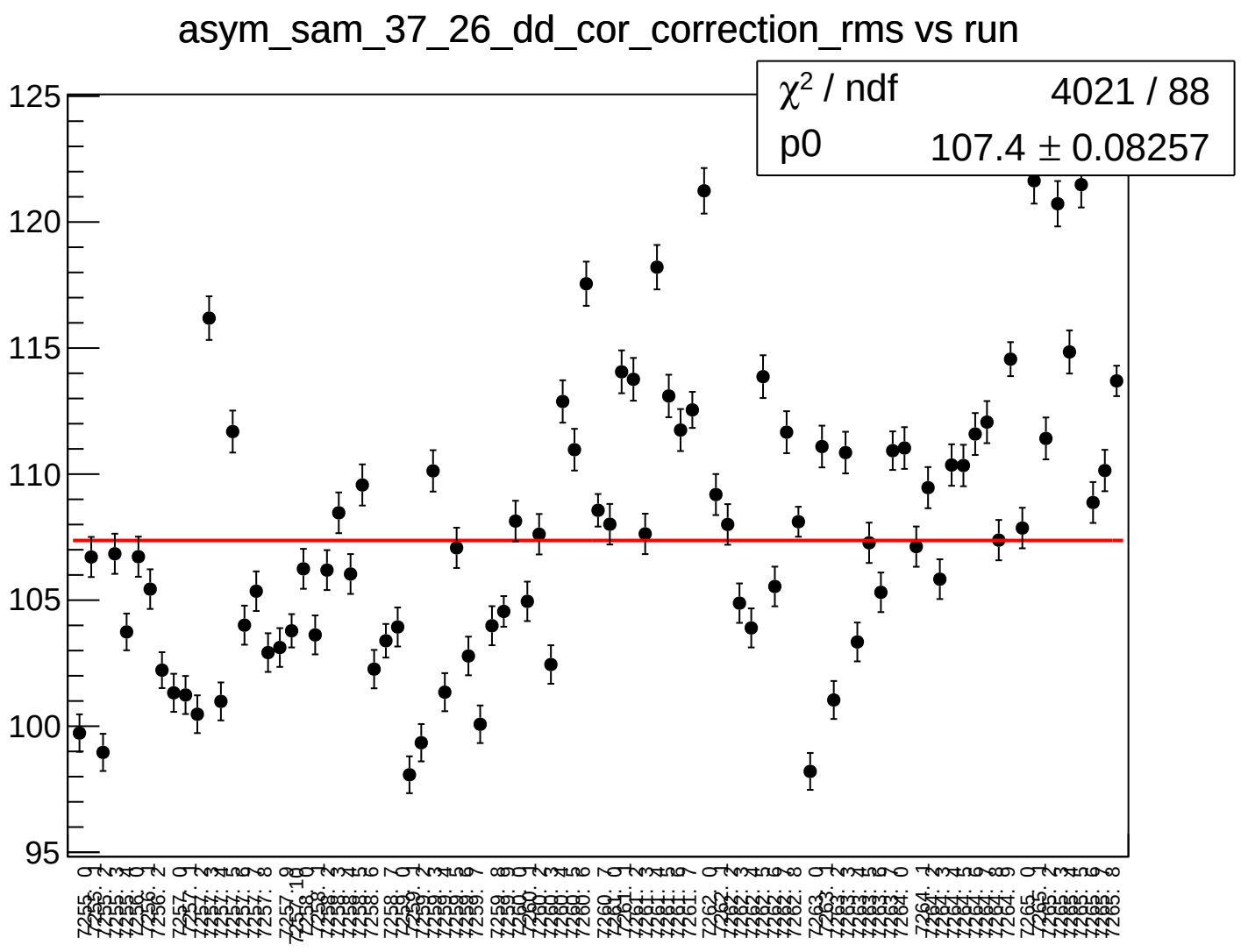

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 4021 / 88
p0 107.4 ± 0.08257
125
120
115
110
105
100
95

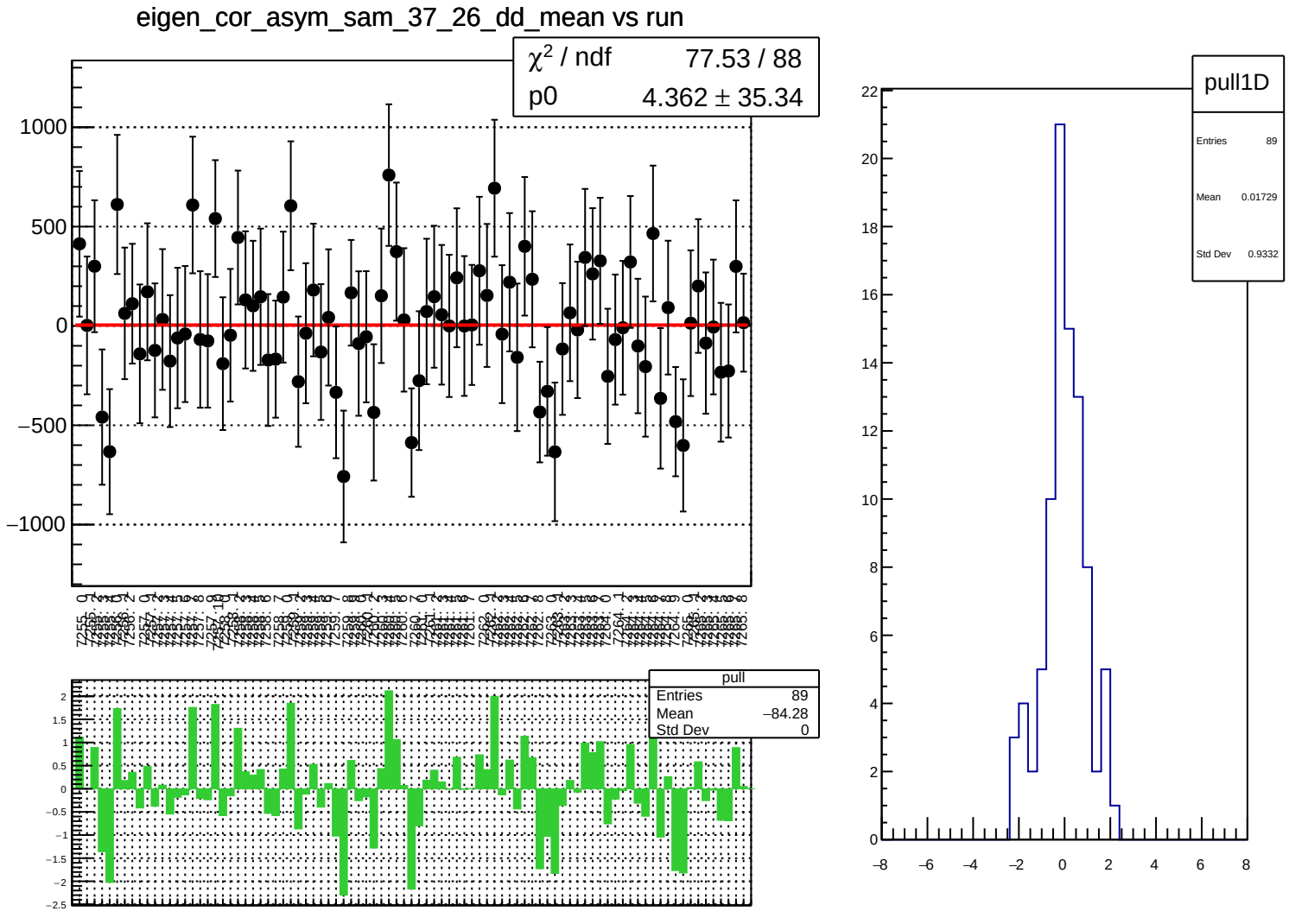

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 77.53 / 88
p0 4.362 ± 35.34
pull
Entries 89
Mean −84.28
Std Dev 0

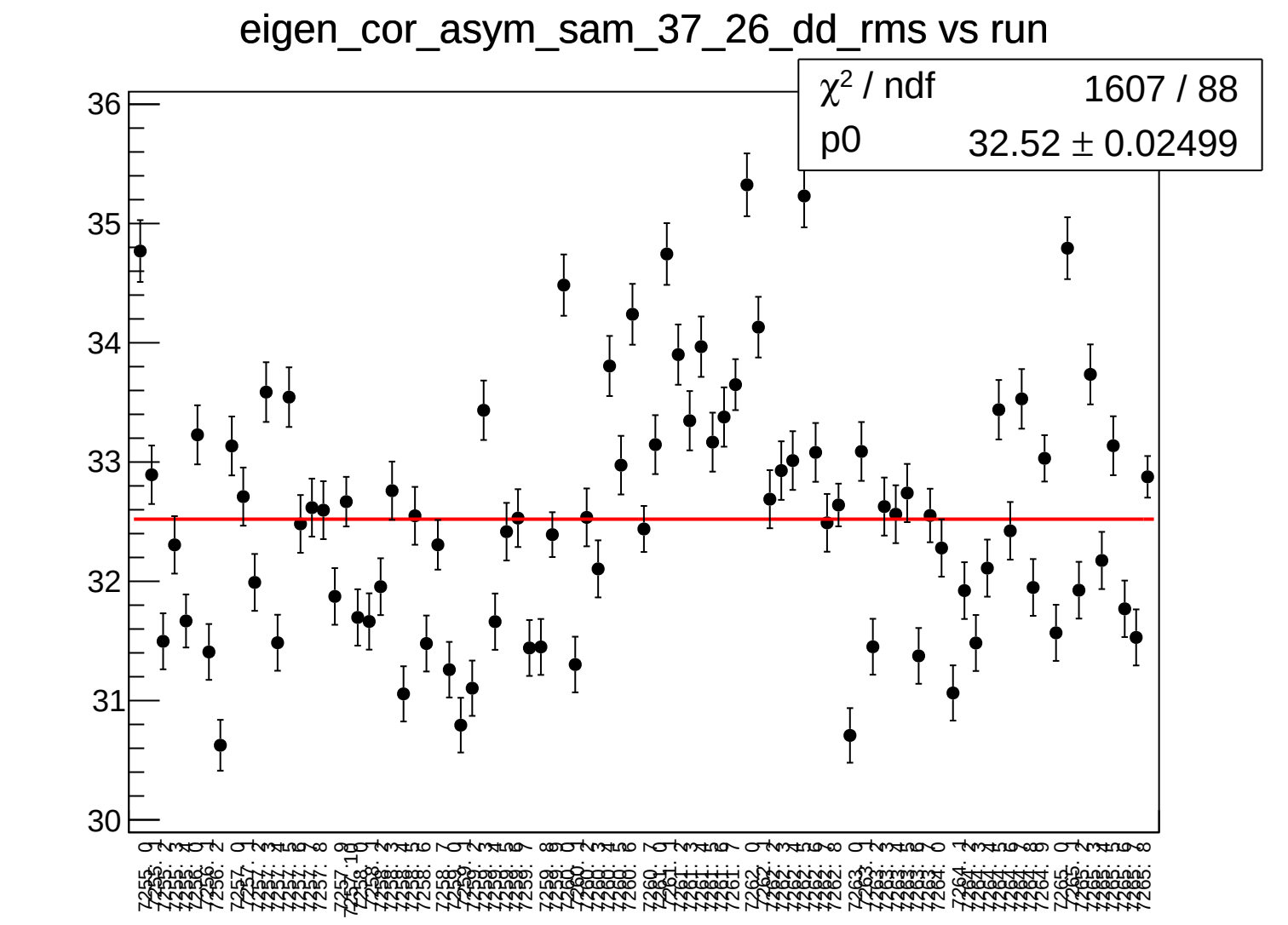

pull1D
Entries 89
Mean 0.01729
Std Dev 0.9332

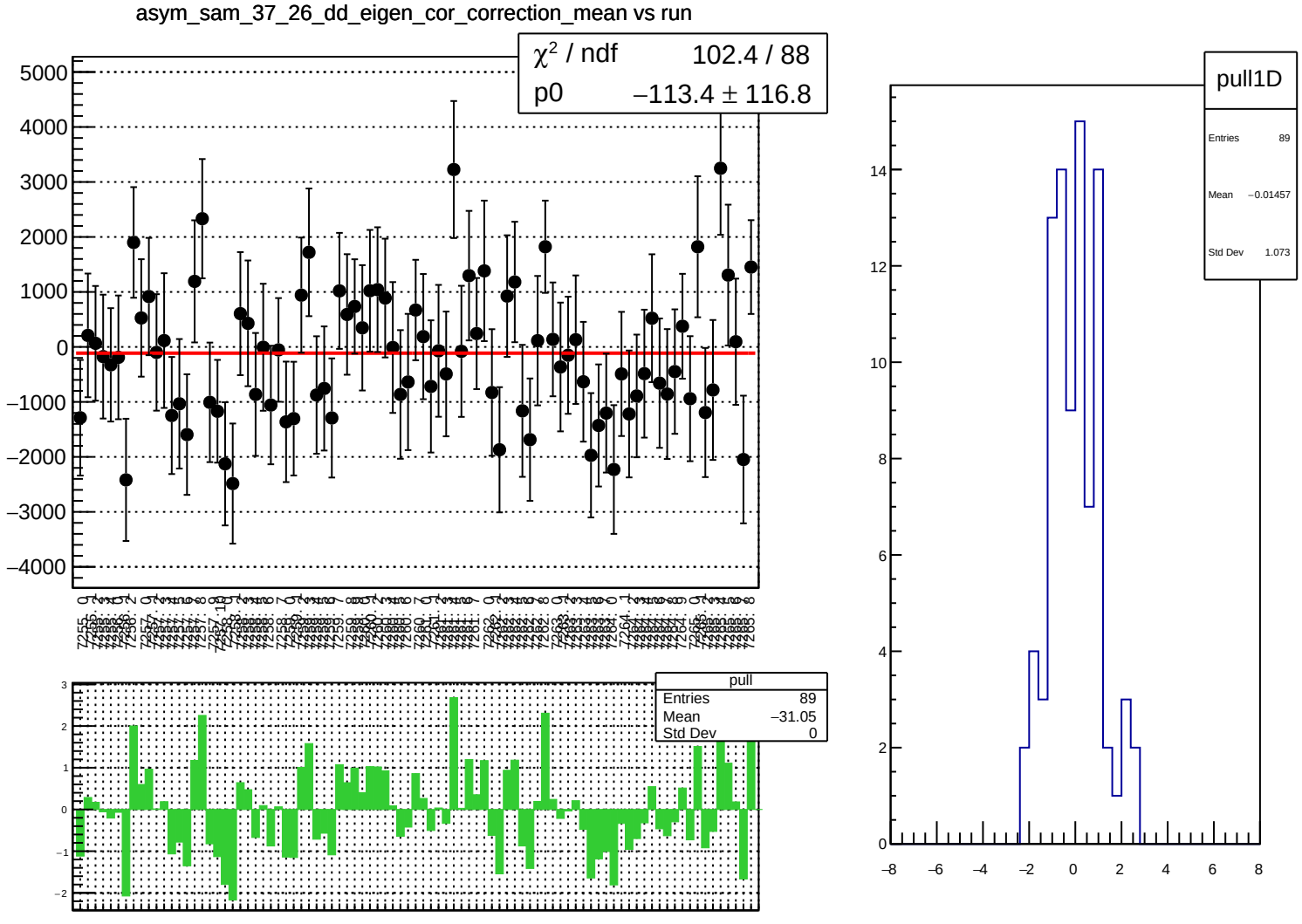

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1607 / 88
p0 32.52 ± 0.02499
36
35
34
33
32
31
30

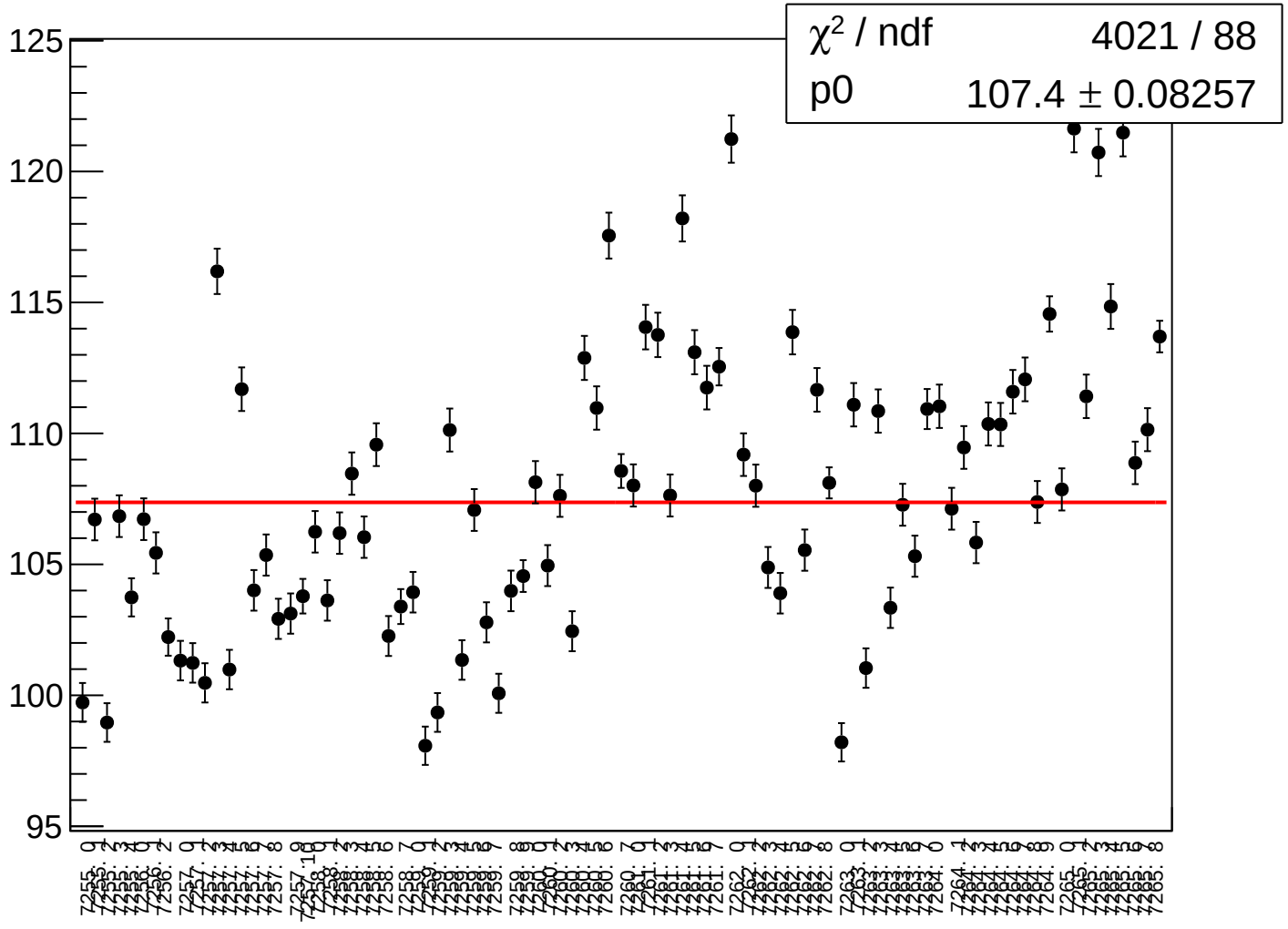

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 102.4 / 88
p0 −113.4 ± 116.8
pull
Entries 89
Mean −31.05
Std Dev 0
pull1D
Entries 89
Mean −0.01457
Std Dev 1.073

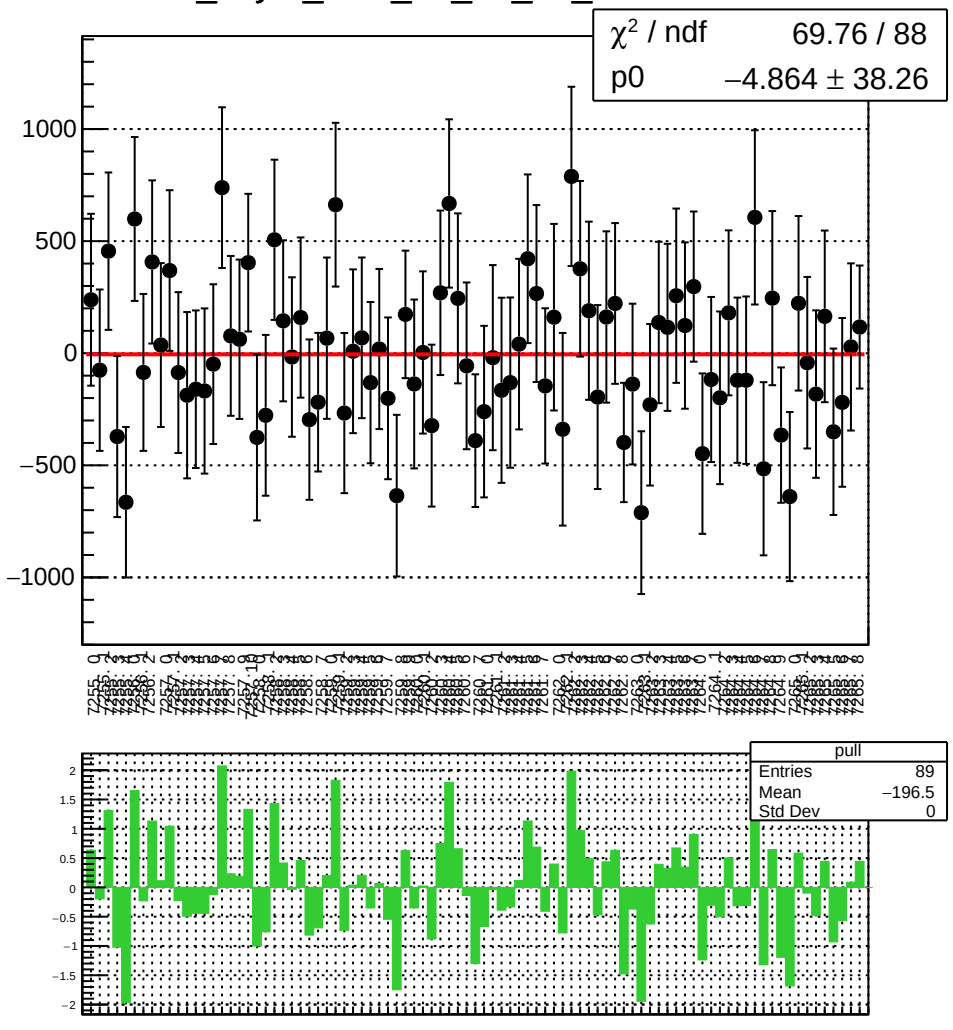

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 4021 / 88
p0 107.4 ± 0.08257
125
120
115
110
105
100
95

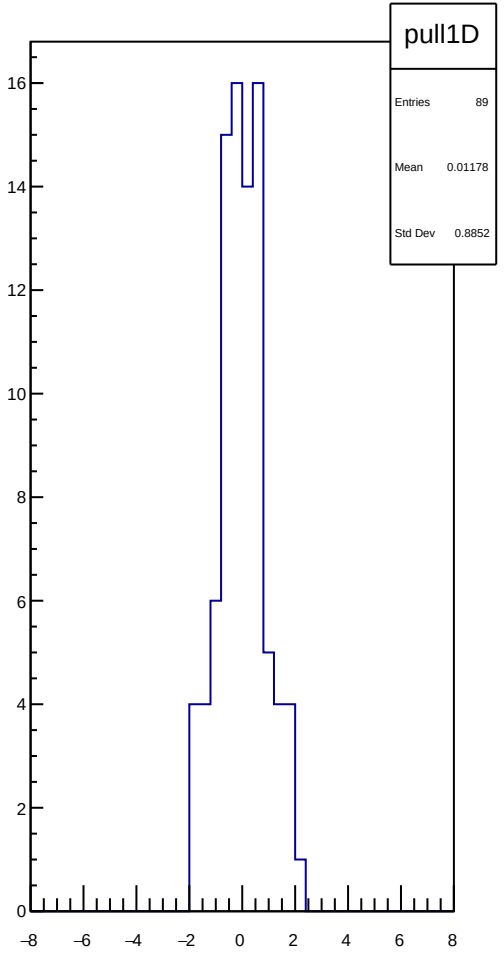

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 77.53 / 88
p0 4.362 ± 35.34
1000
500
0
−500
−1000
pull
Entries 89
Mean −84.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.01729
Std Dev 0.9332
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

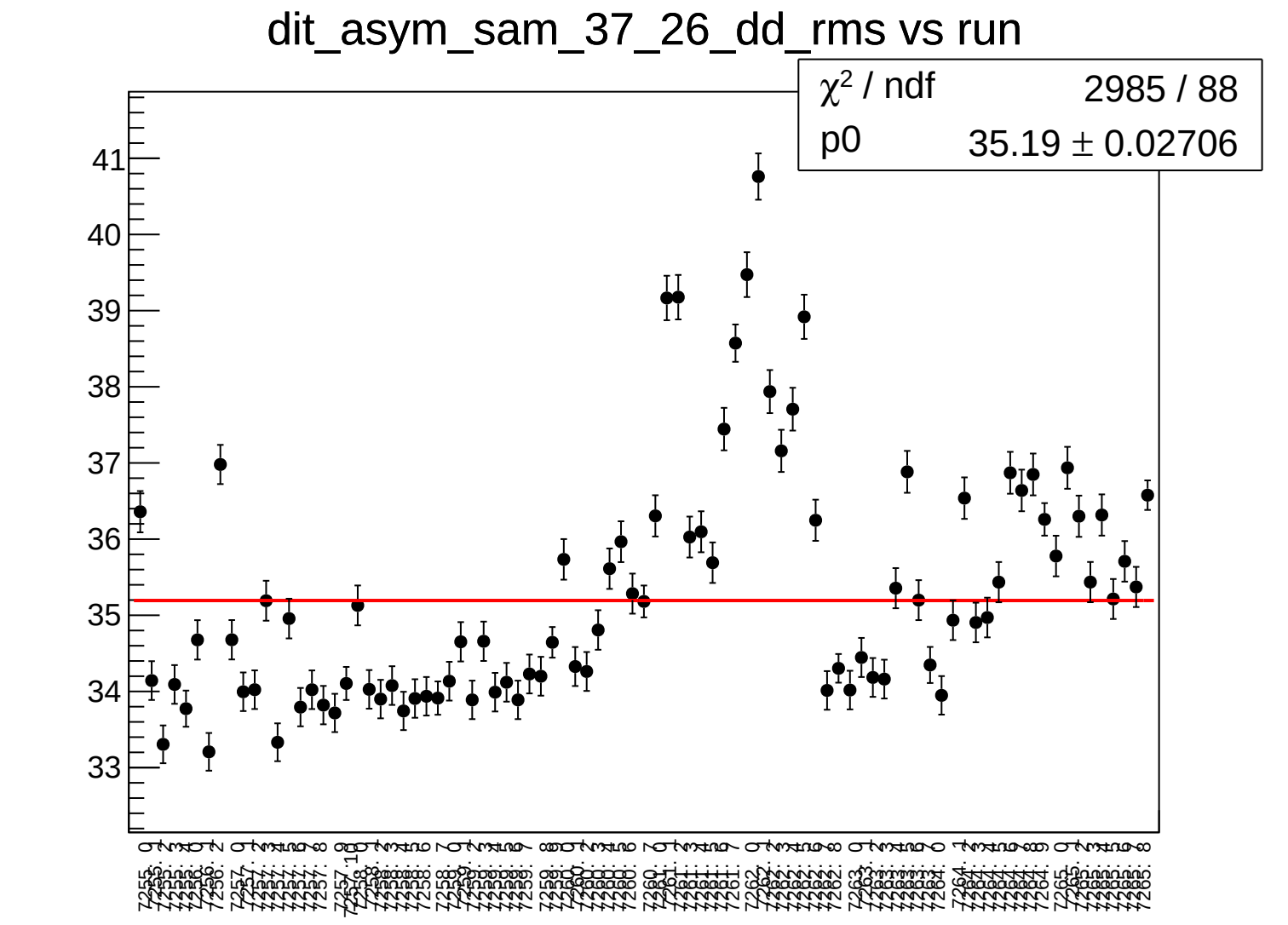

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1607 / 88
p0 32.52 ± 0.02499
36
35
34
33
32
31
30

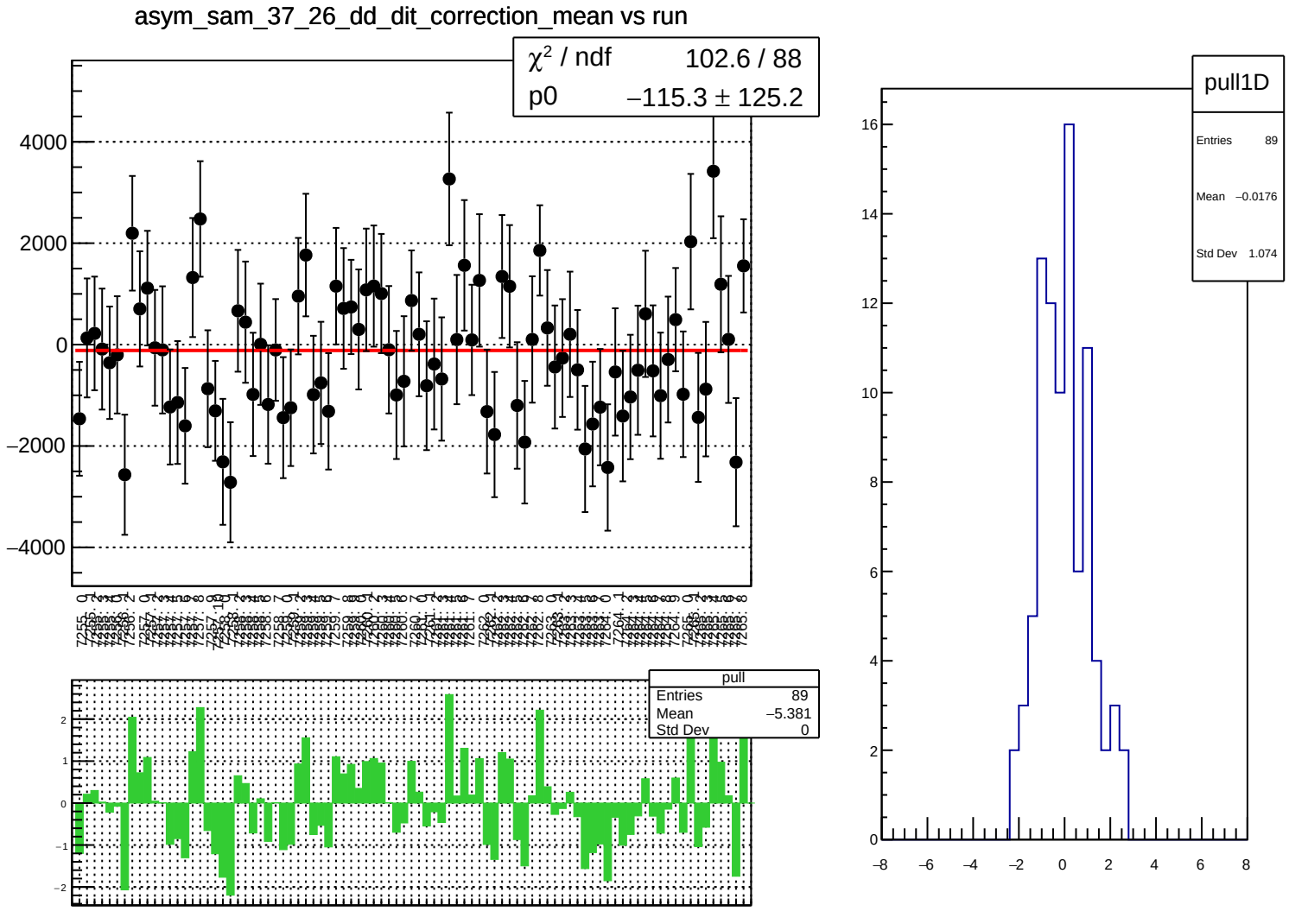

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 102.4 / 88
p0 −113.4 ± 116.8
pull
Entries 89
Mean −31.05
Std Dev 0
pull1D
Entries 89
Mean −0.01457
Std Dev 1.073

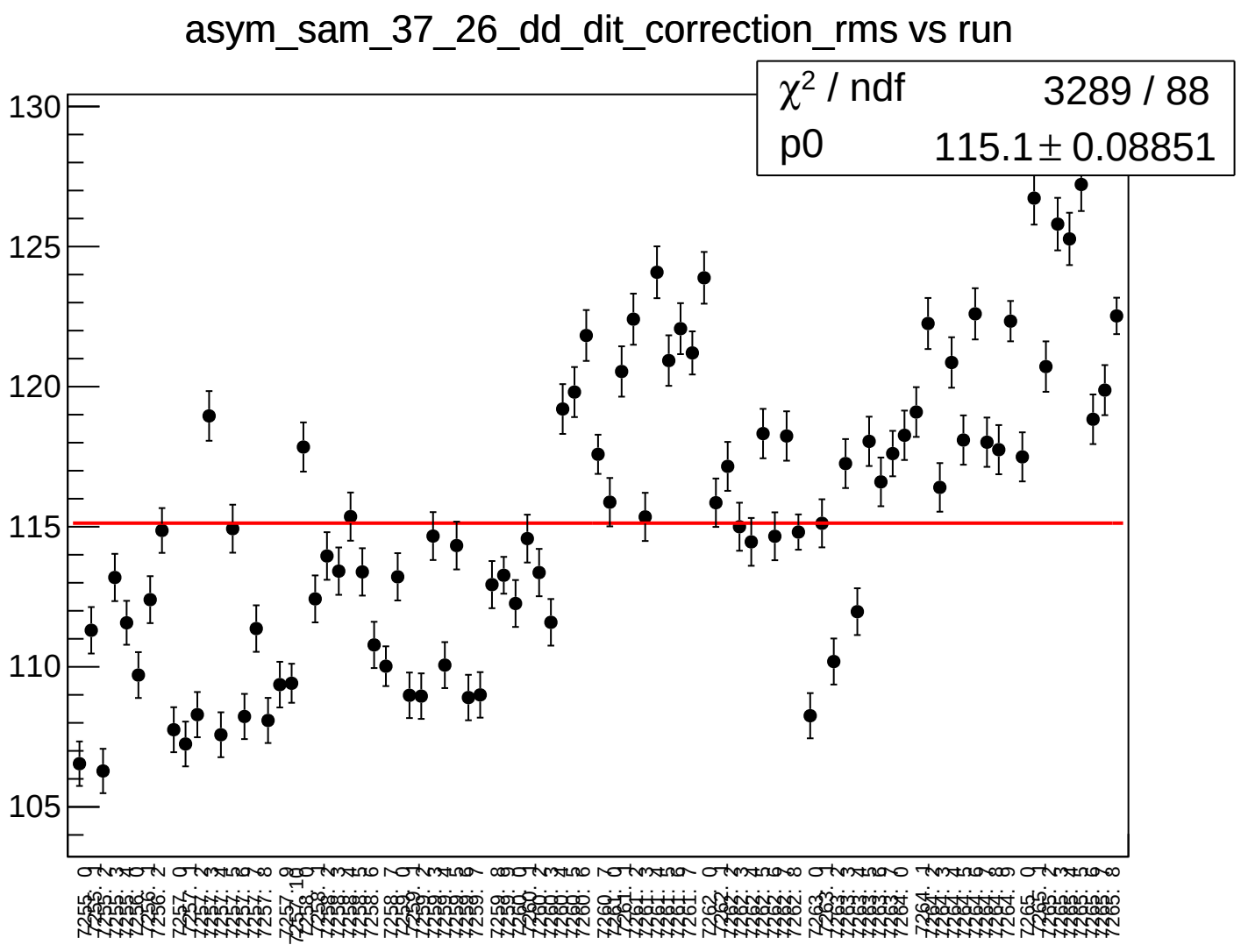

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4021 / 88
p0 107.4 ± 0.08257
125
120
115
110
105
100
95

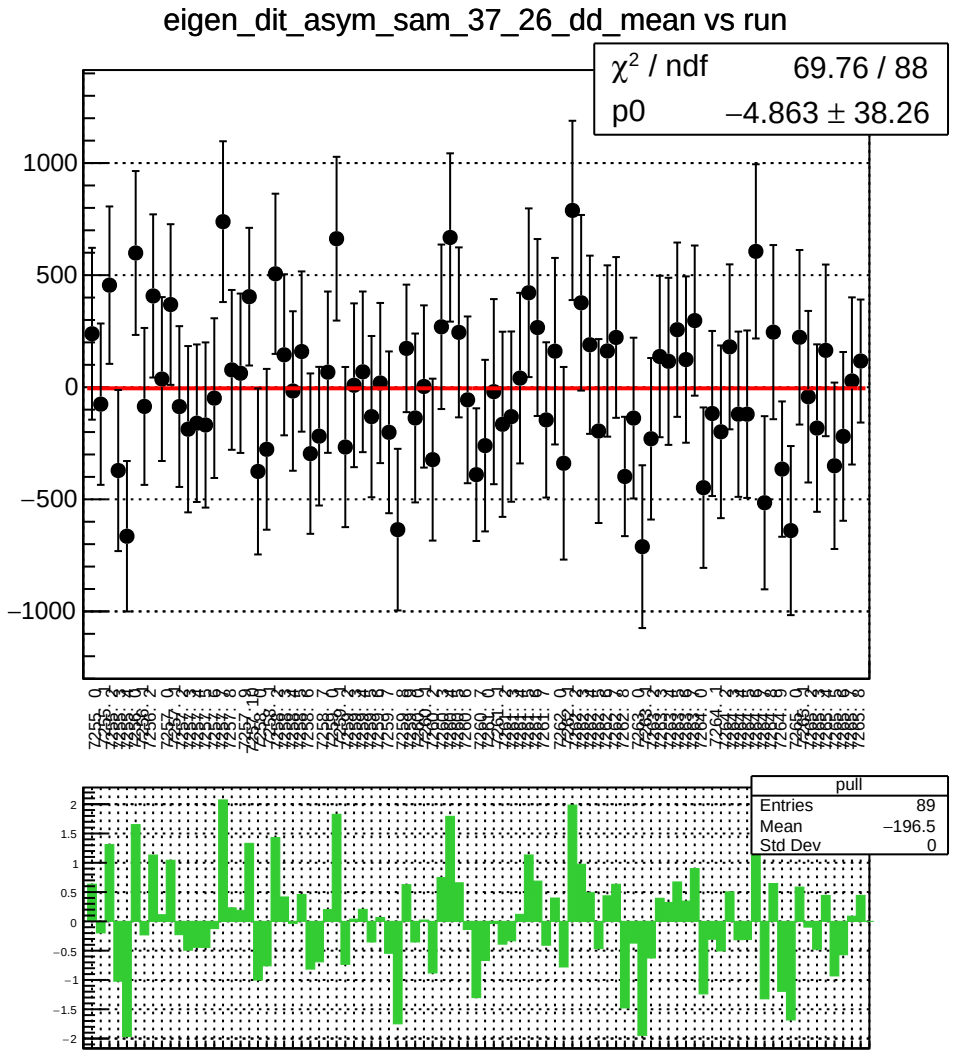

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 69.76 / 88
p0 −4.864 ± 38.26
1000
500
0
−500
−1000
pull
Entries 89
Mean −196.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

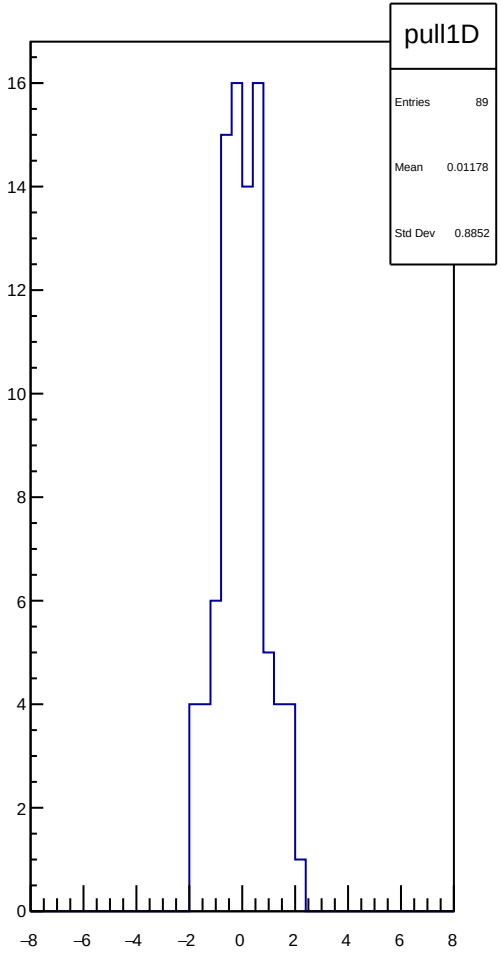

pull1D
Entries 89
Mean 0.01178
Std Dev 0.8852
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

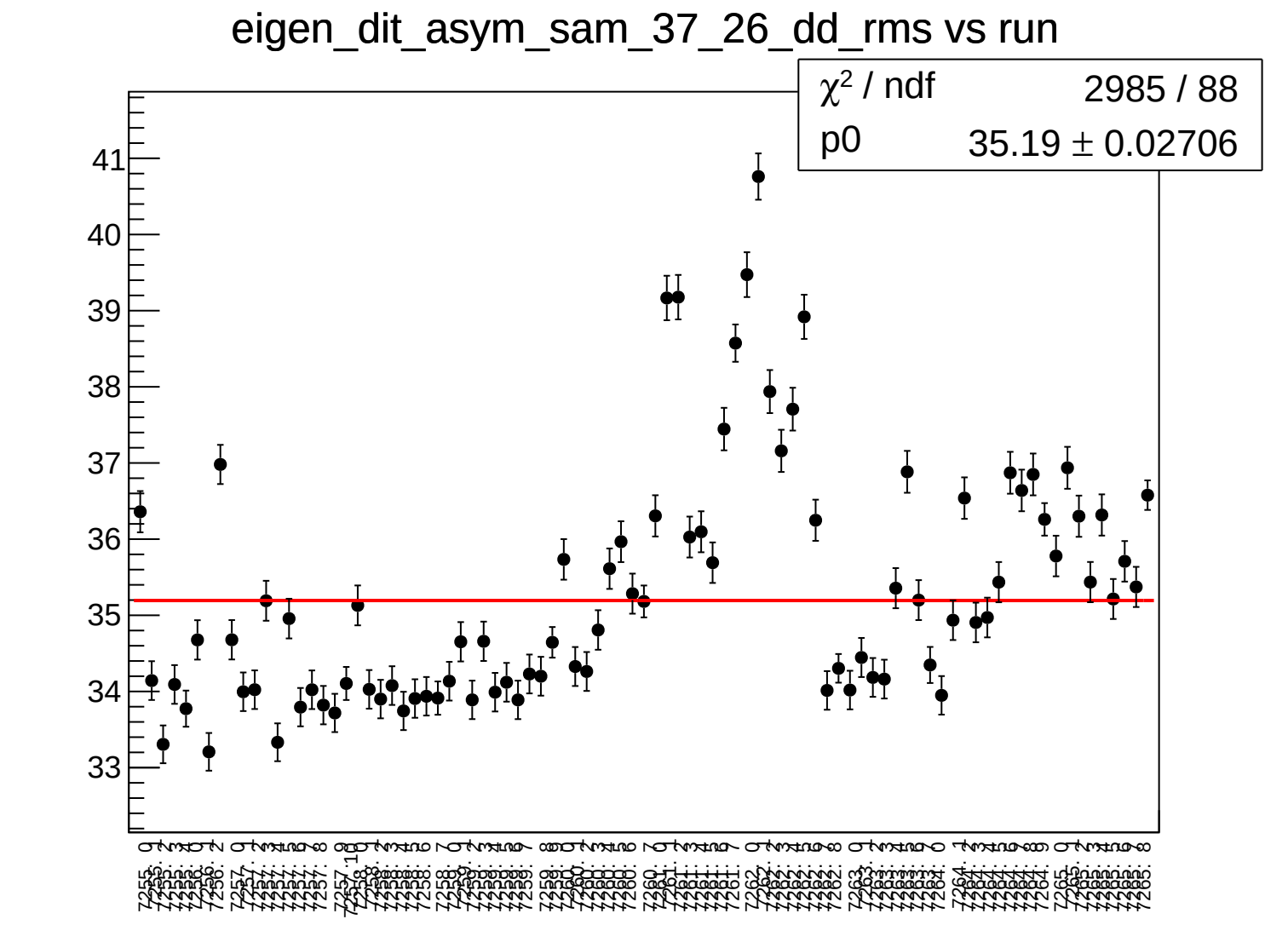

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2985 / 88
p0 35.19 ± 0.02706
41
40
39
38
37
36
35
34
33

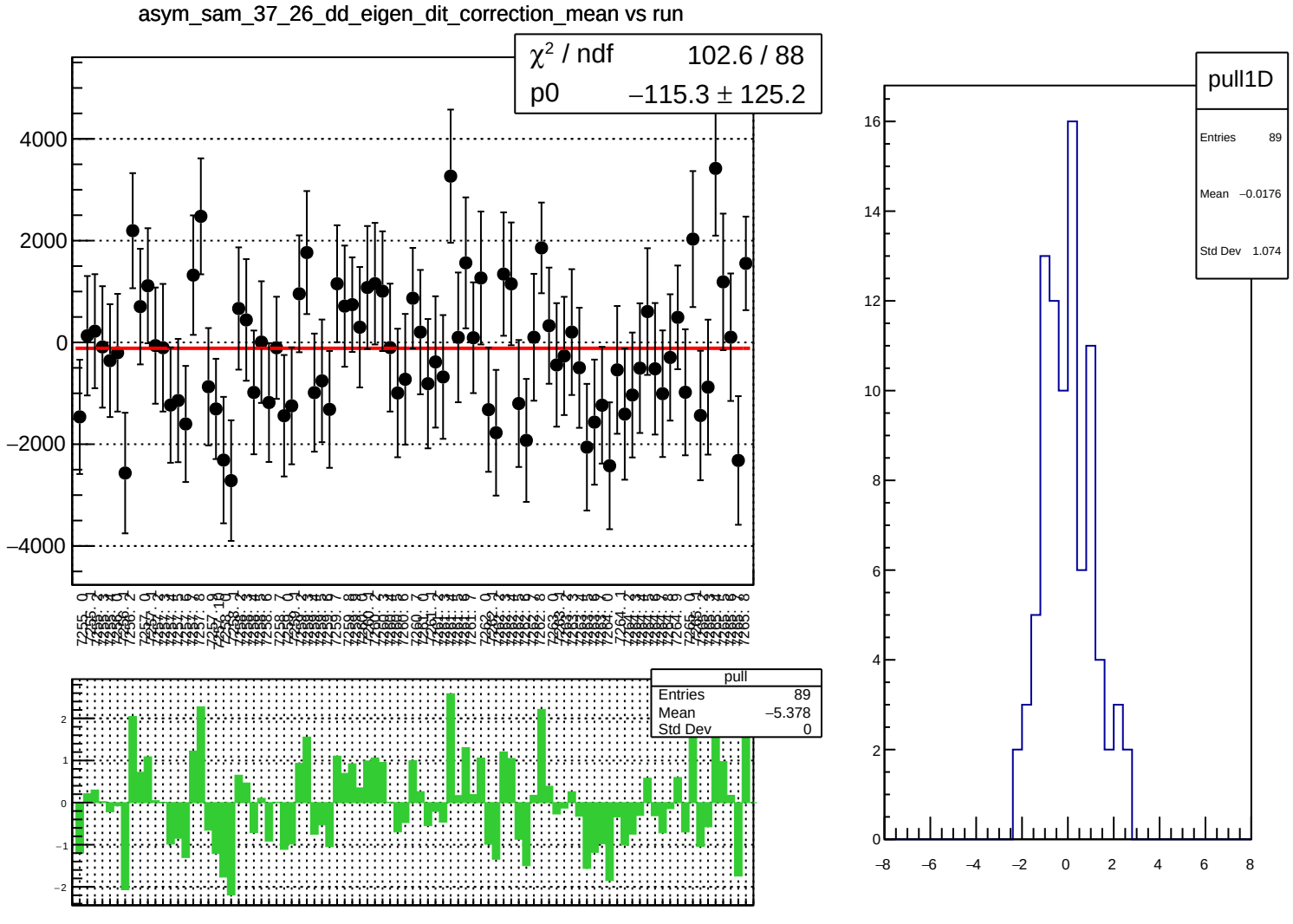

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 102.6 / 88
p0 −115.3 ± 125.2
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −5.381
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.0176
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

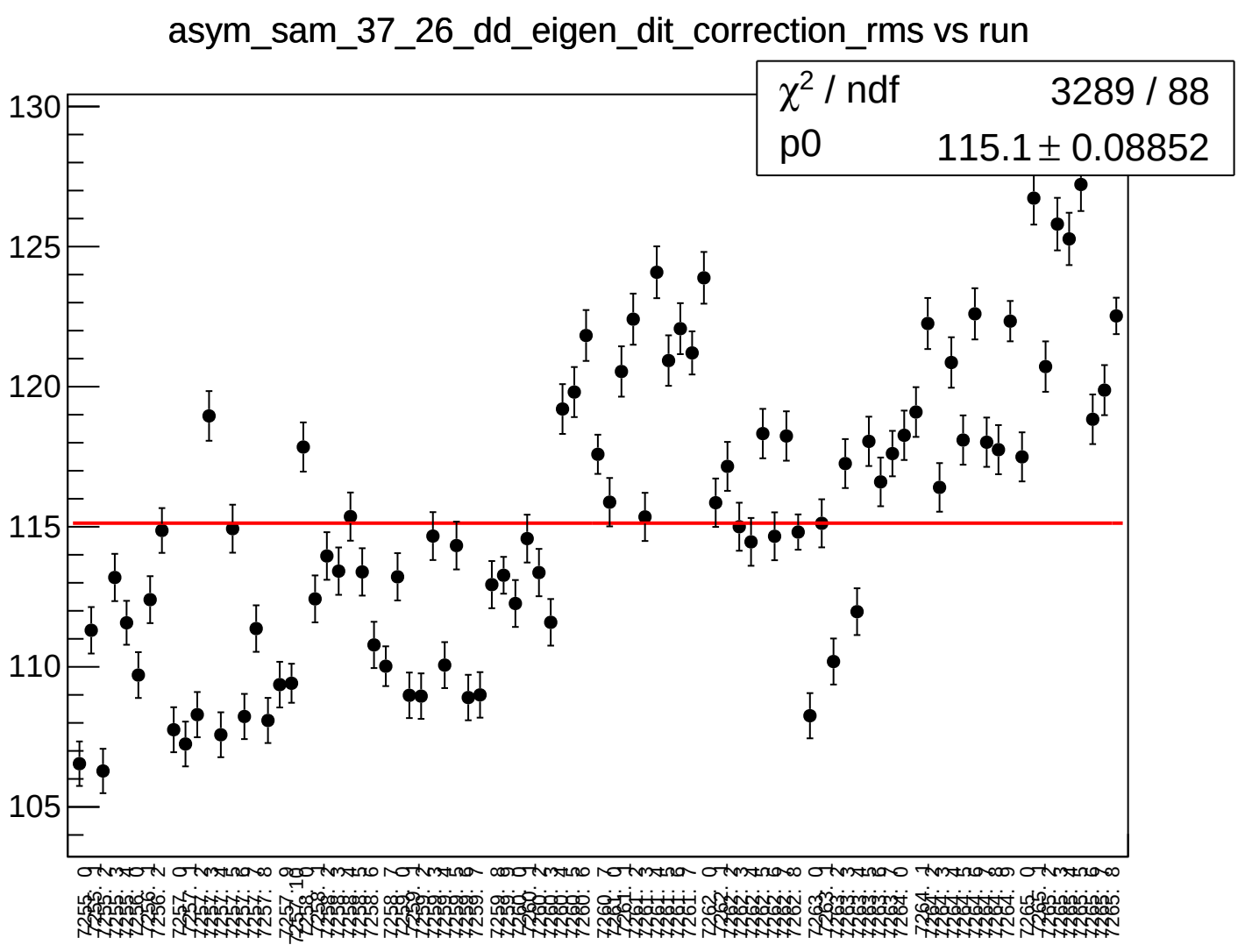

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 3289 / 88
p0 115.1 ± 0.08851
130
125
120
115
110
105

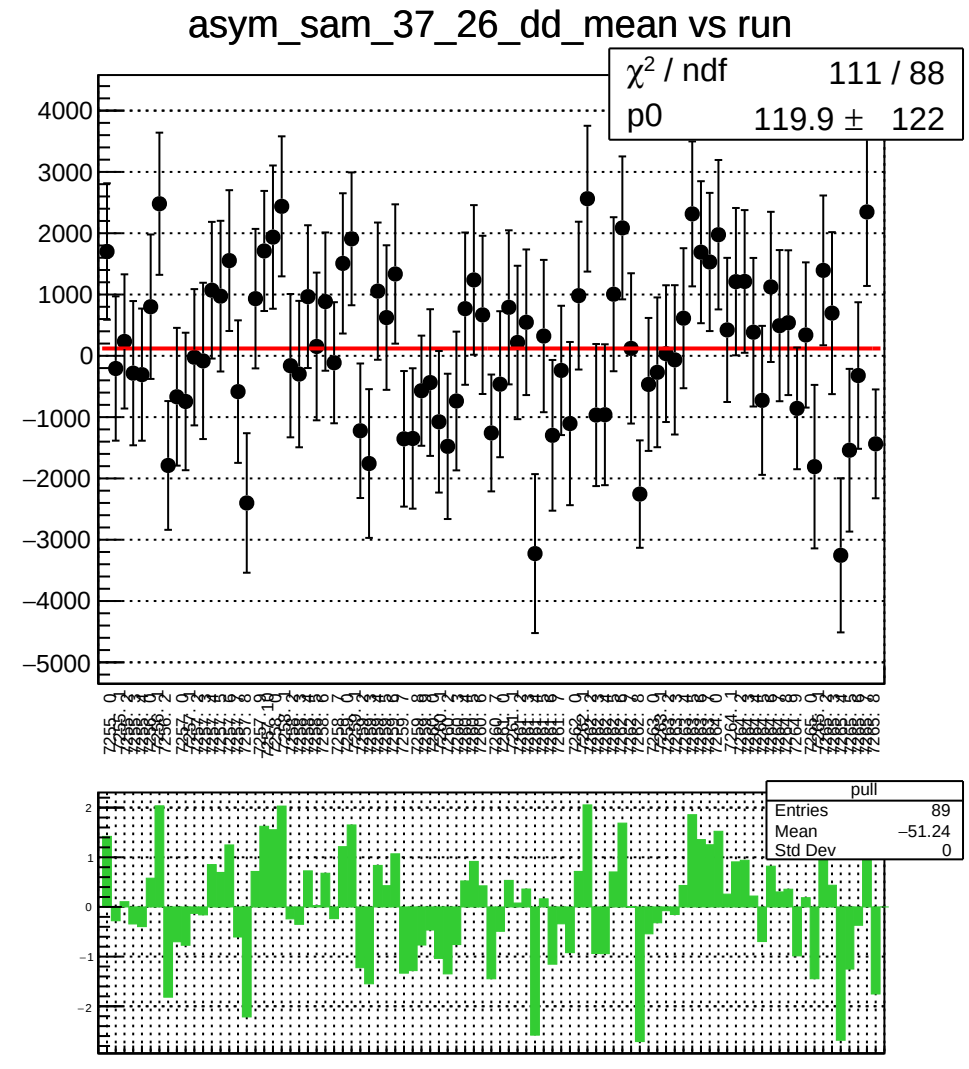

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 69.76 / 88
p0 −4.863 ± 38.26
1000
500
0
−500
−1000
pull
Entries 89
Mean −196.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

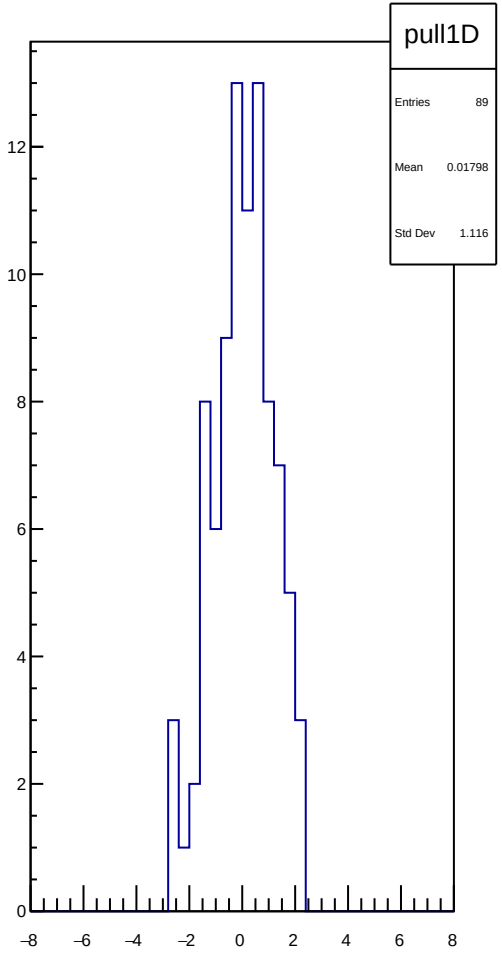

pull1D
Entries 89
Mean 0.01178
Std Dev 0.8852
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

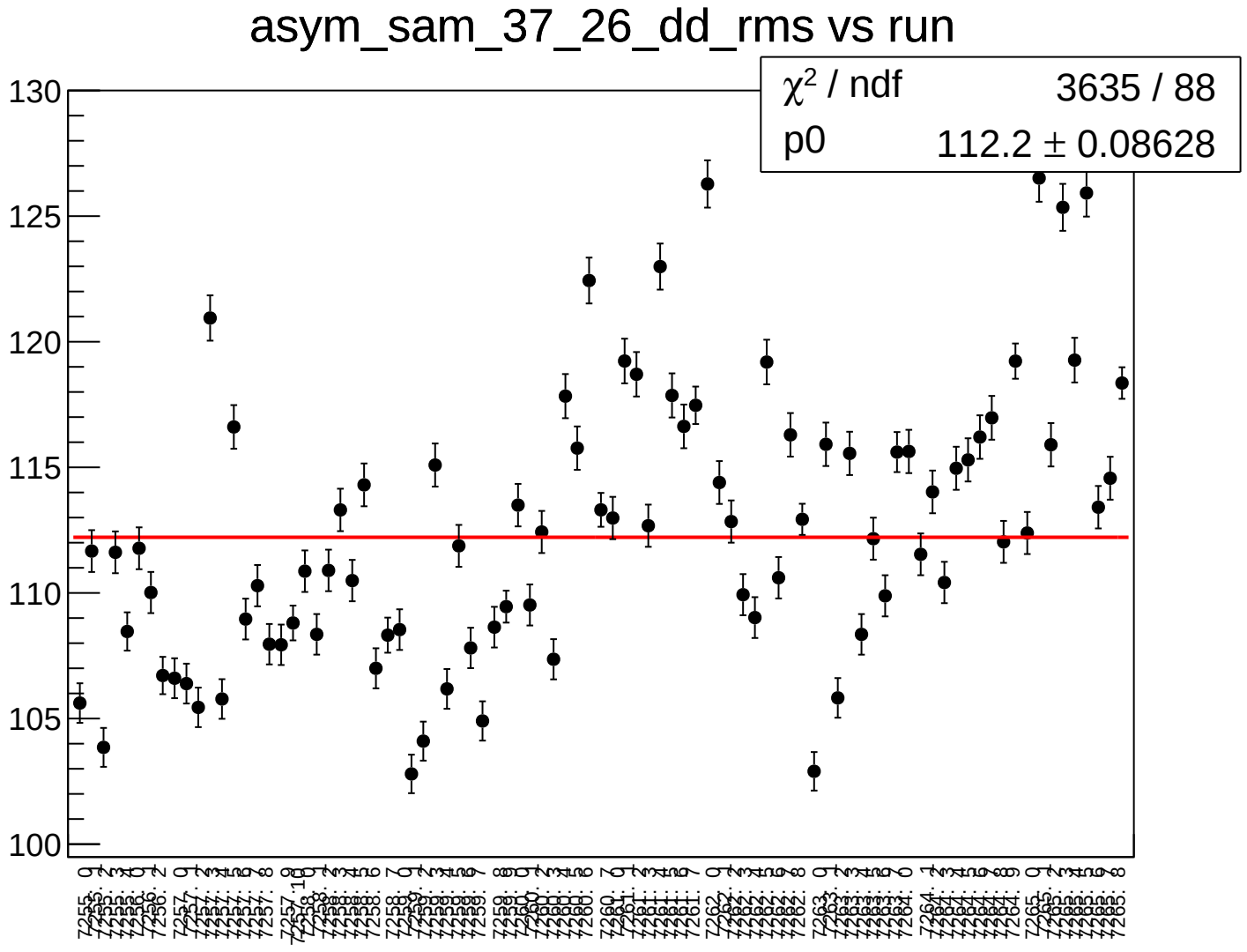

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2985 / 88
p0 35.19 ± 0.02706
41
40
39
38
37
36
35
34
33

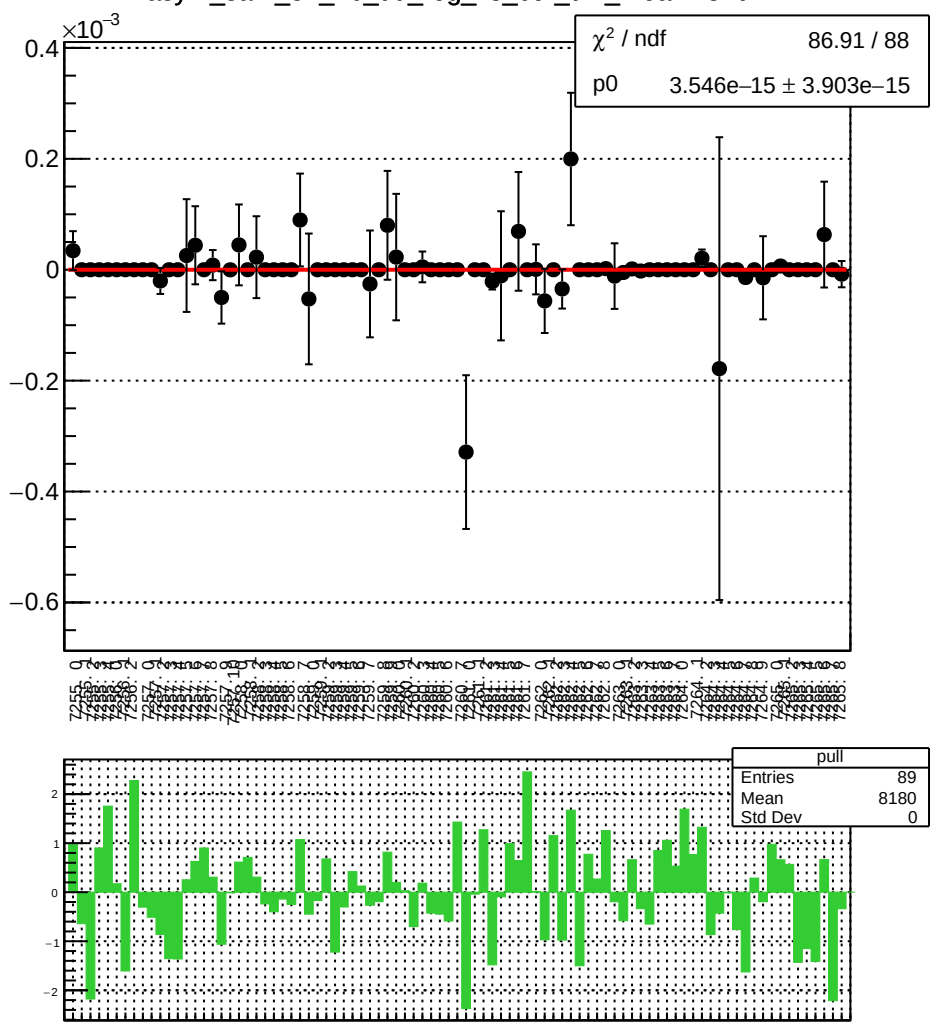

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 102.6 / 88
p0 −115.3 ± 125.2
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −5.378
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.0176
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

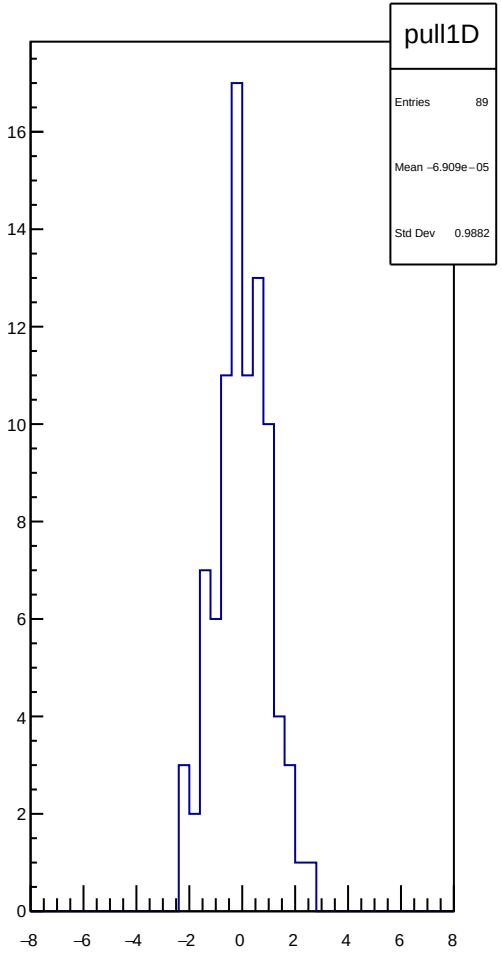

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3289 / 88
p0 115.1 ± 0.08852
130
125
120
115
110
105

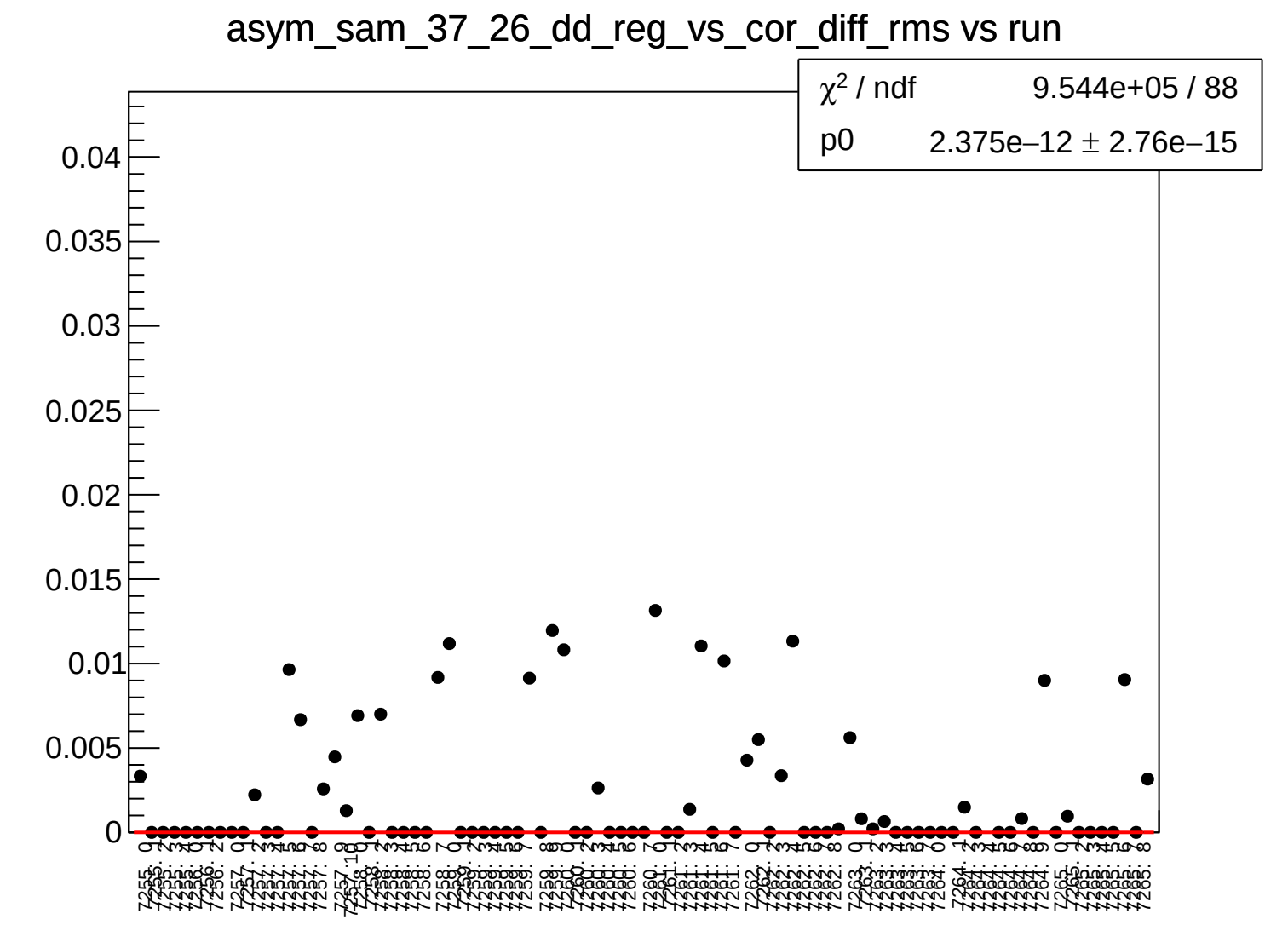

asym_sam_37_26_dd_mean vs run
χ² / ndf 111 / 88
p0 119.9 ± 122
pull
Entries 89
Mean −51.24
Std Dev 0

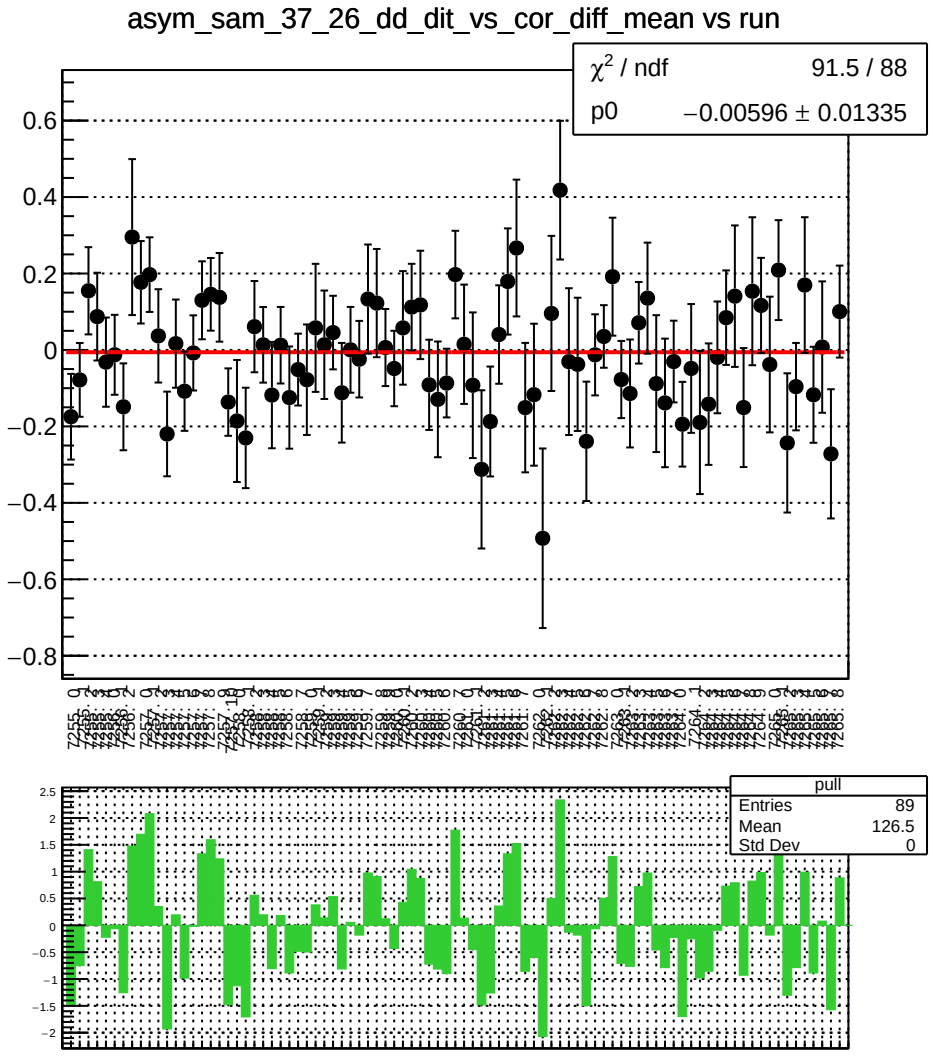

pull1D
Entries 89
Mean 0.01798
Std Dev 1.116

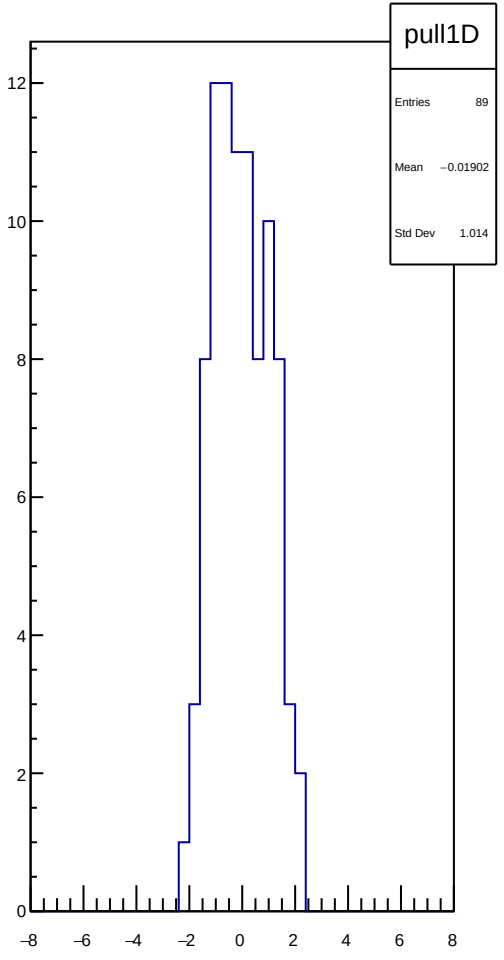

asym_sam_37_26_dd_rms vs run
χ^2 / ndf 3635 / 88
p0 112.2 ± 0.08628
130
125
120
115
110
105
100

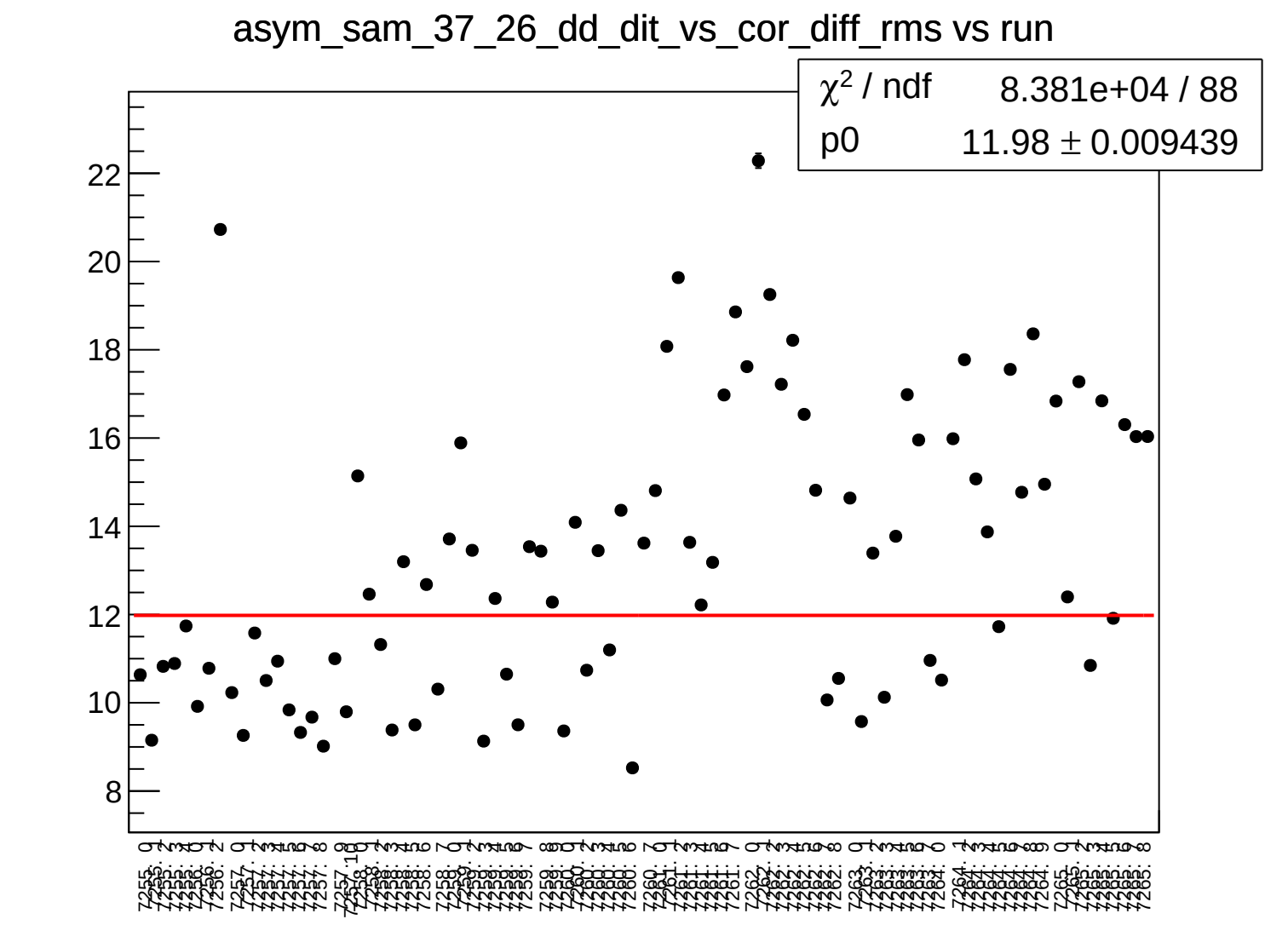

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 86.91 / 88
p0 3.546e−15 ± 3.903e−15
pull
Entries 89
Mean 8180
Std Dev 0

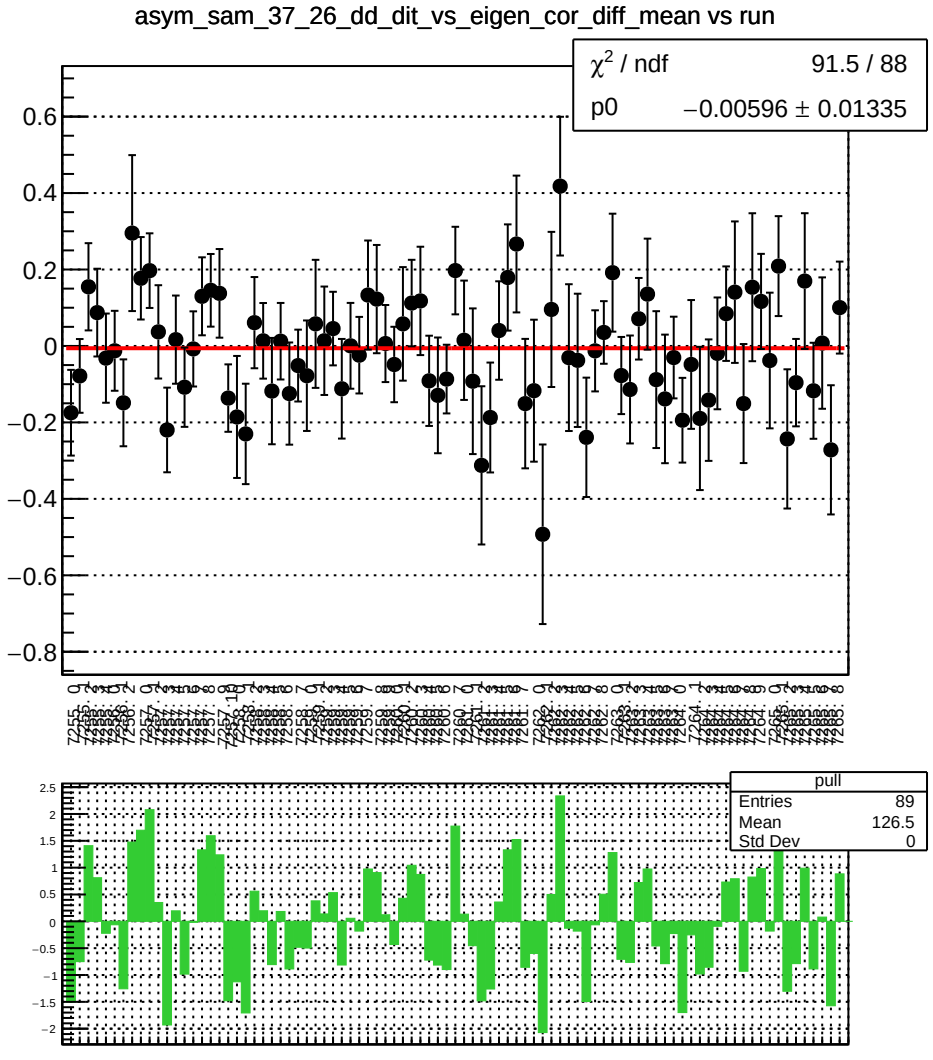

pull1D
Entries 89
Mean −6.909e−05
Std Dev 0.9882

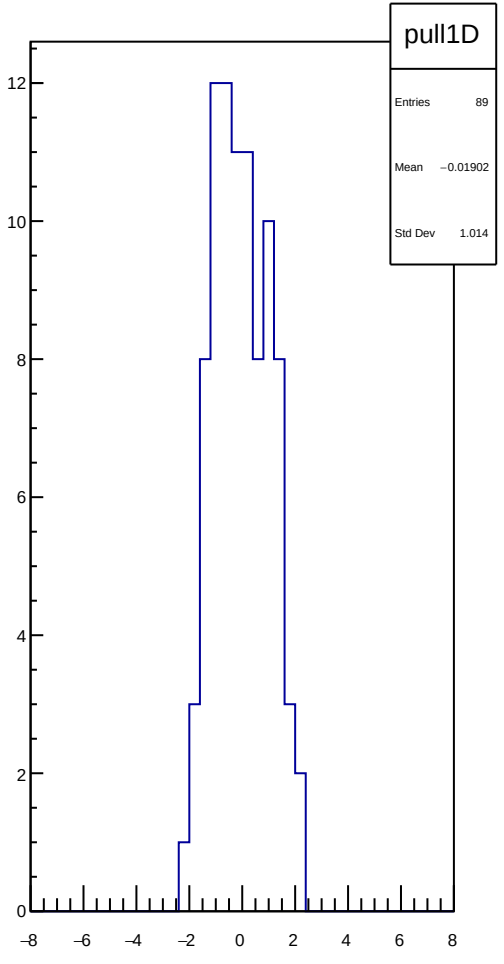

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.544e+05 / 88
p0 2.375e−12 ± 2.76e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

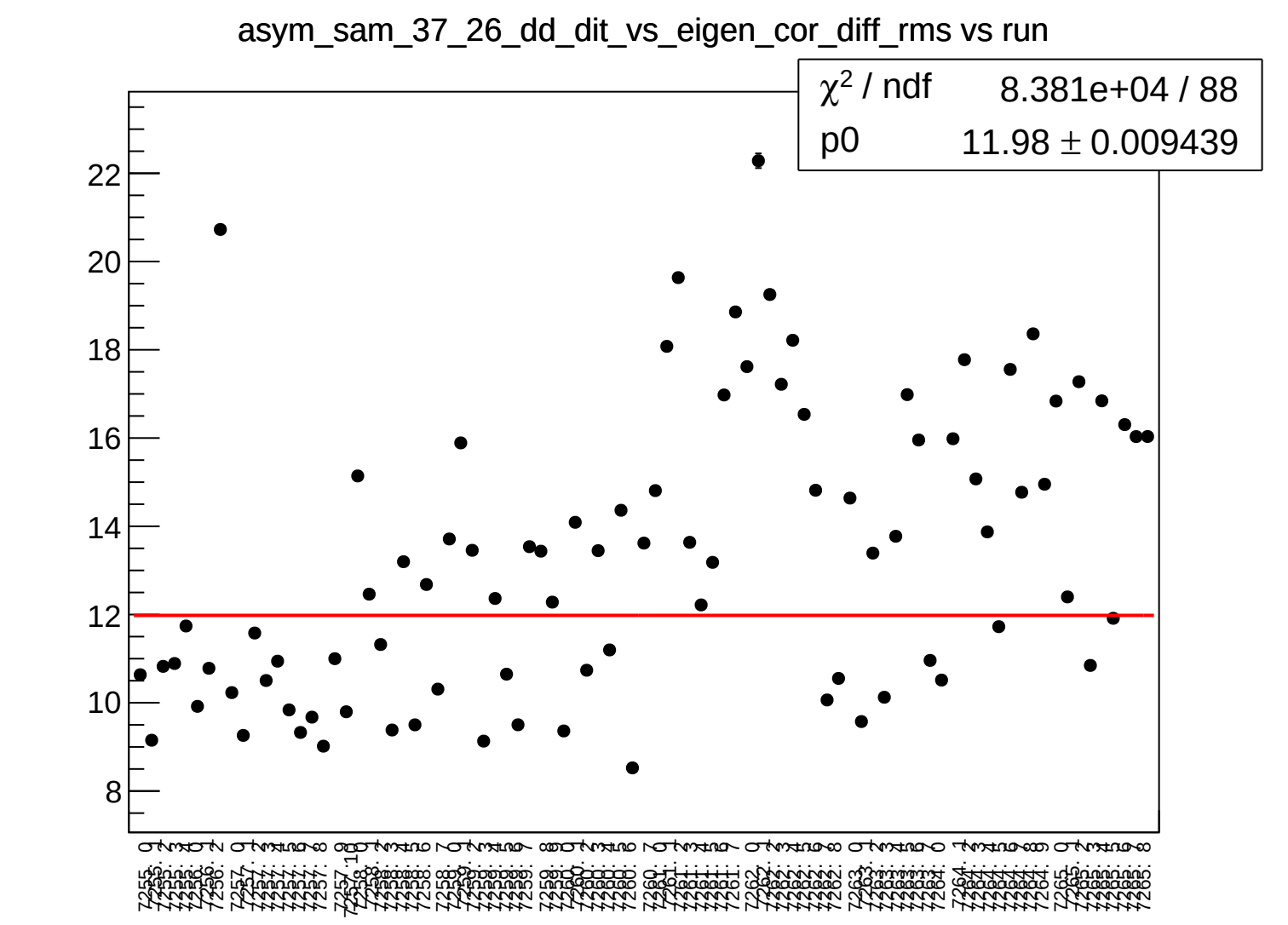

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.5 / 88
p0 −0.00596 ± 0.01335
pull
Entries 89
Mean 126.5
Std Dev 0

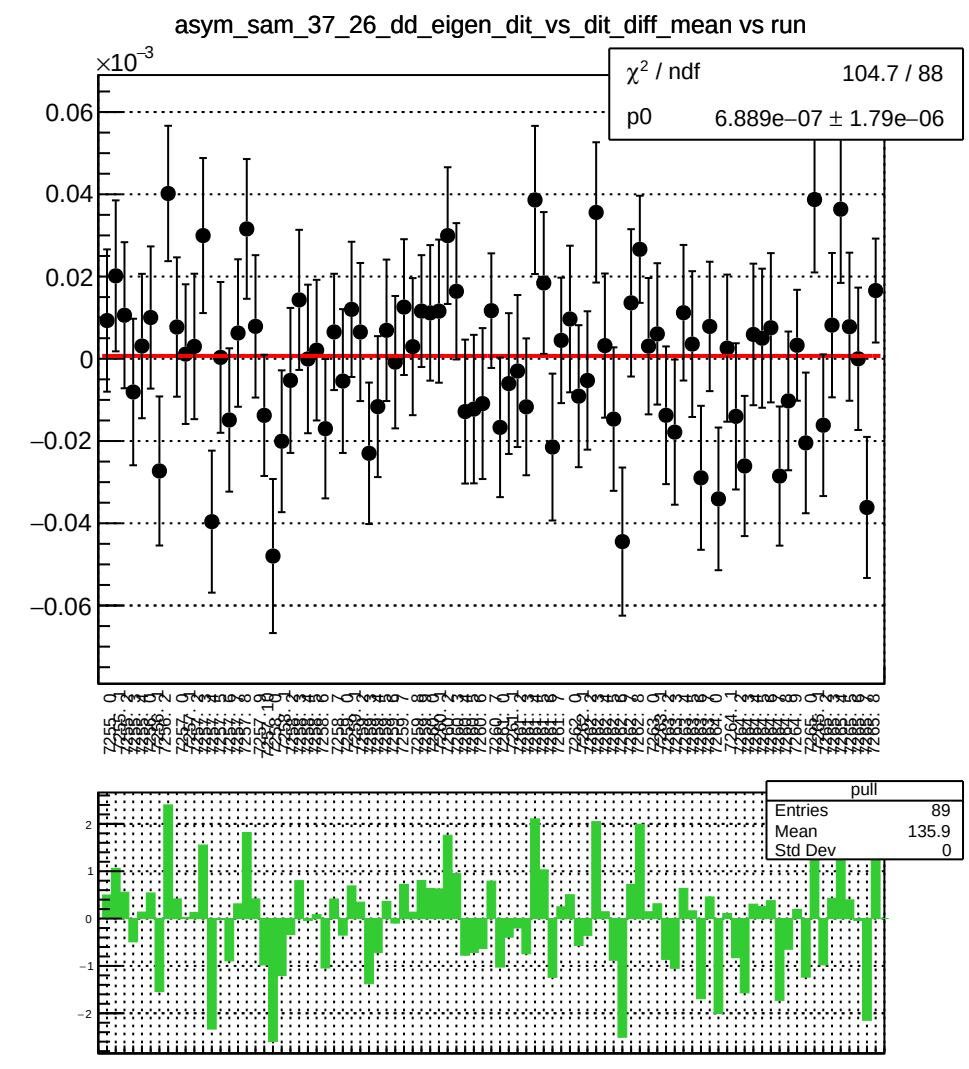

pull1D
Entries 89
Mean −0.01902
Std Dev 1.014

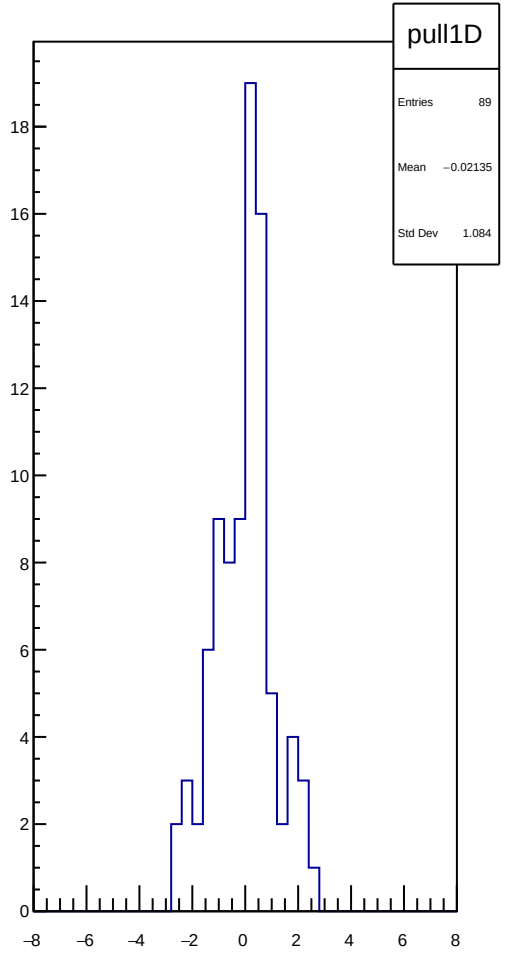

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.381e+04 / 88
p0 11.98 ± 0.009439
22
20
18
16
14
12
10
8

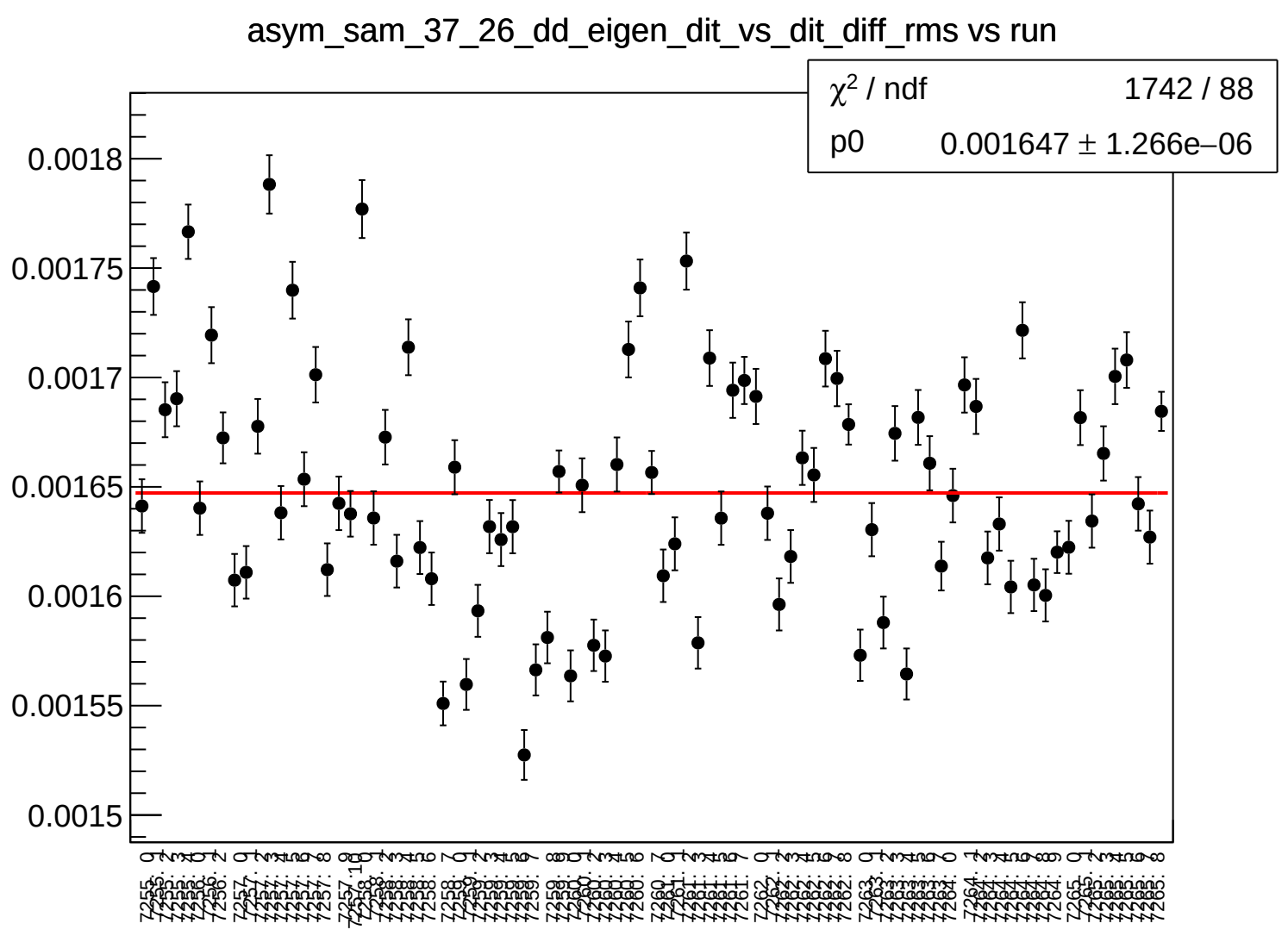

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.5 / 88
p0 −0.00596 ± 0.01335
pull
Entries 89
Mean 126.5
Std Dev 0

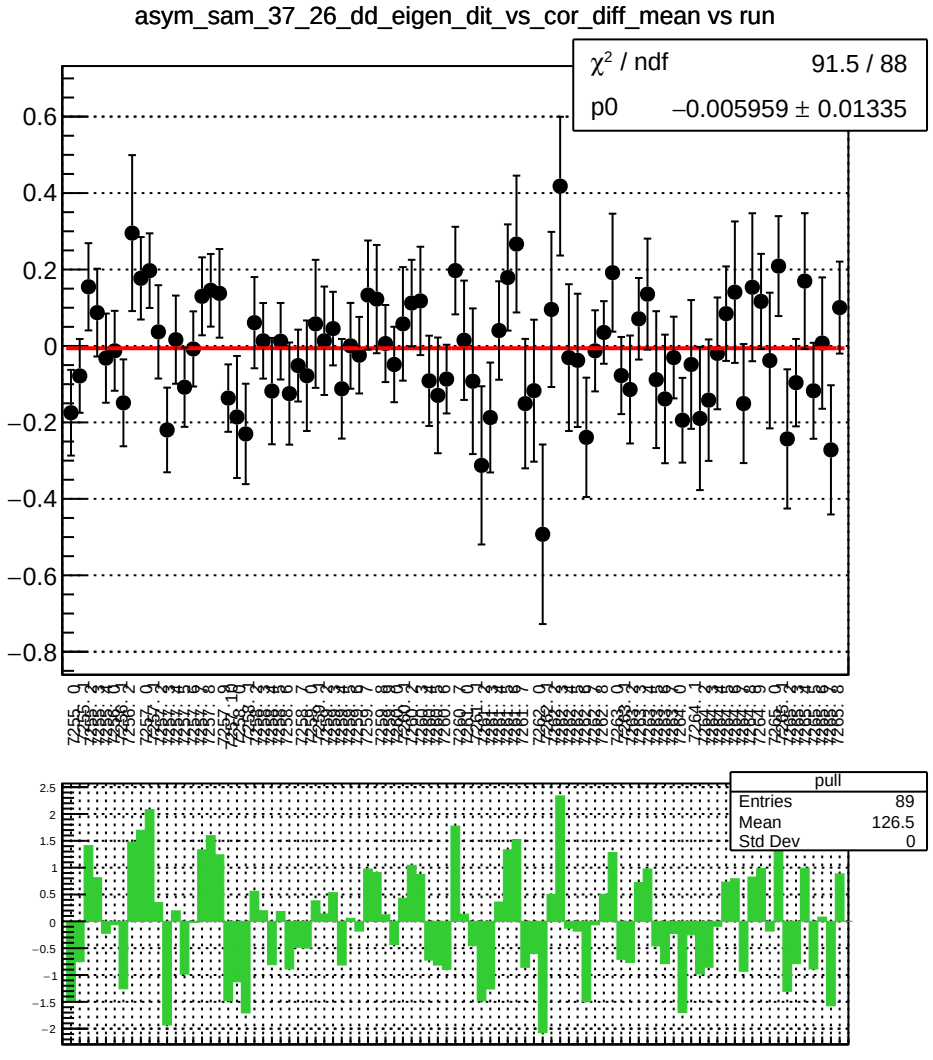

pull1D
Entries 89
Mean −0.01902
Std Dev 1.014

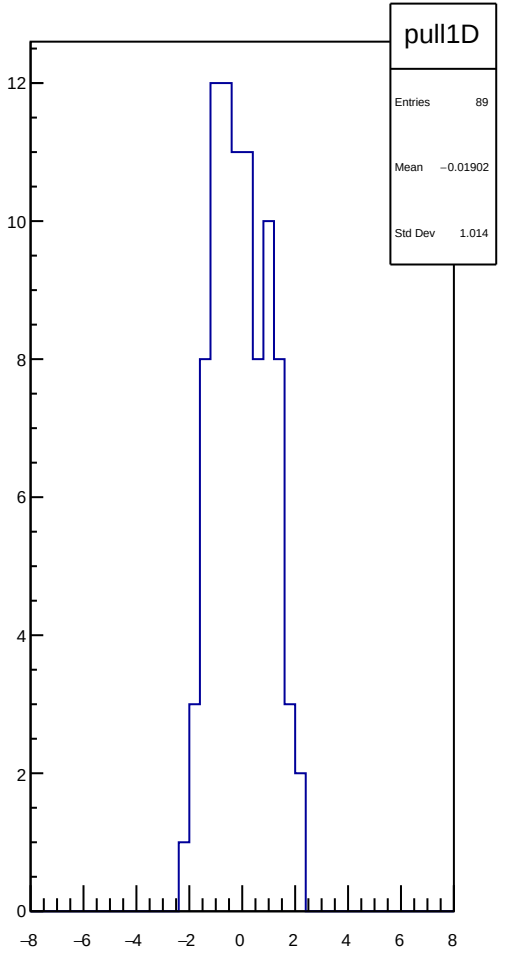

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.381e+04 / 88
p0 11.98 ± 0.009439
22
20
18
16
14
12
10
8

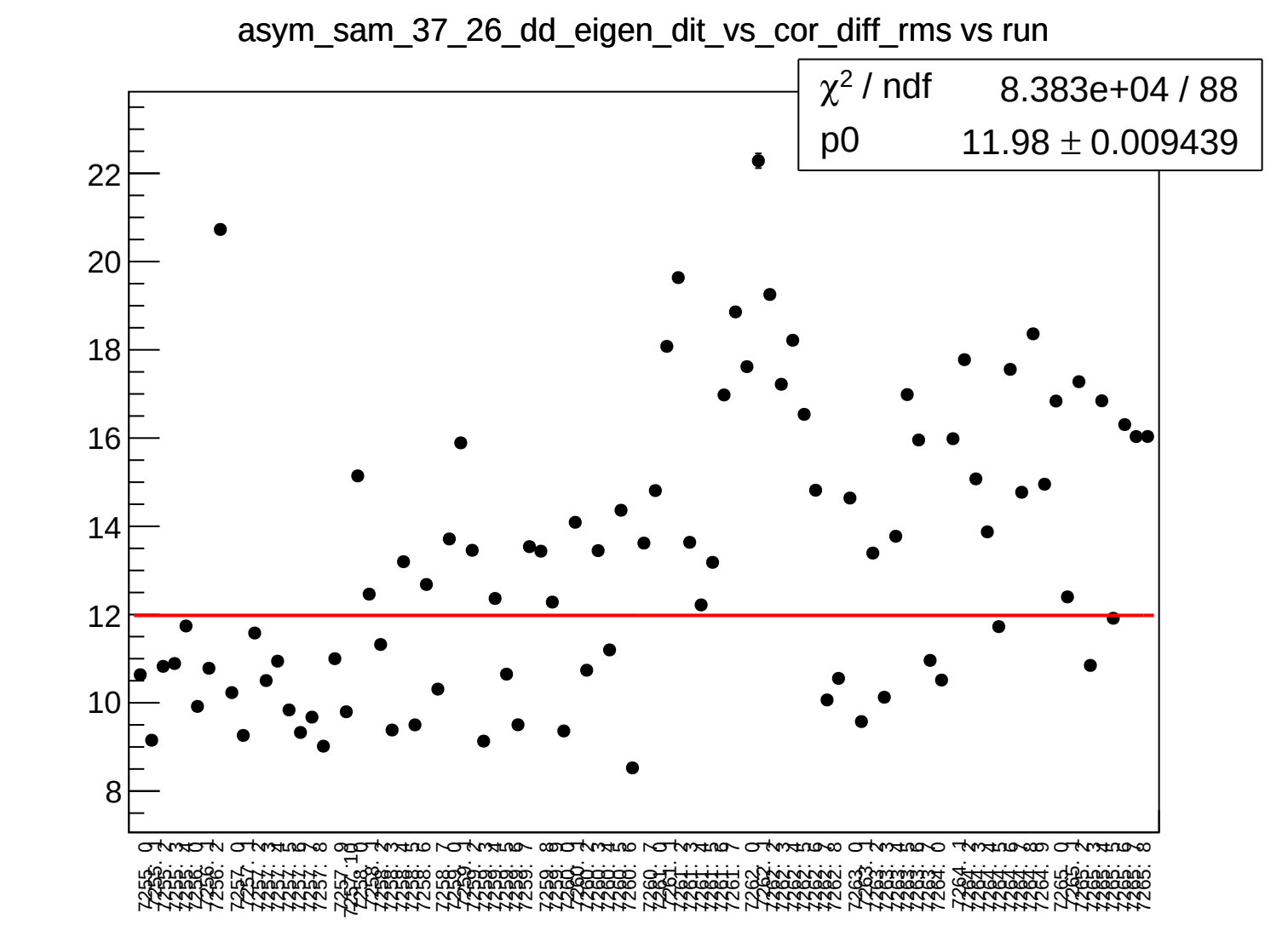

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.7 / 88
p0 6.889e−07 ± 1.79e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 135.9
Std Dev 0
2
1
0
−1
−2

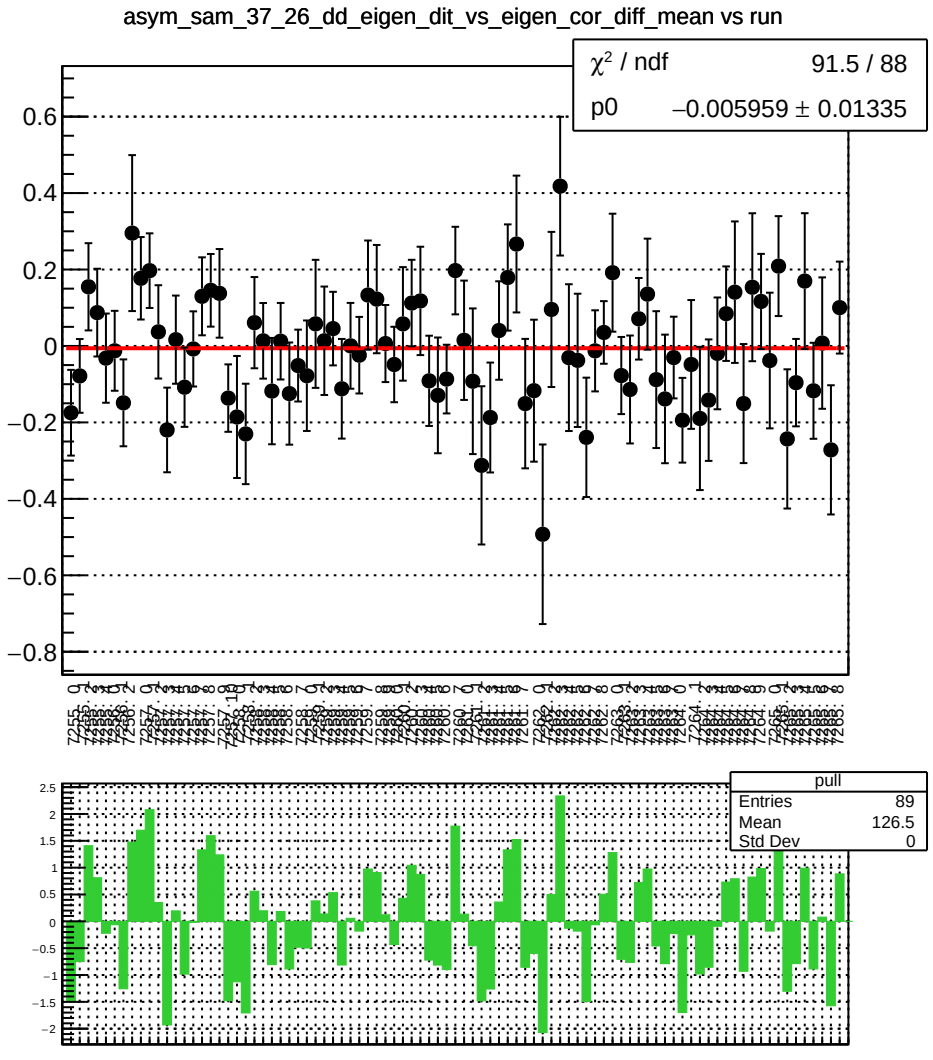

pull1D
Entries 89
Mean −0.02135
Std Dev 1.084
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

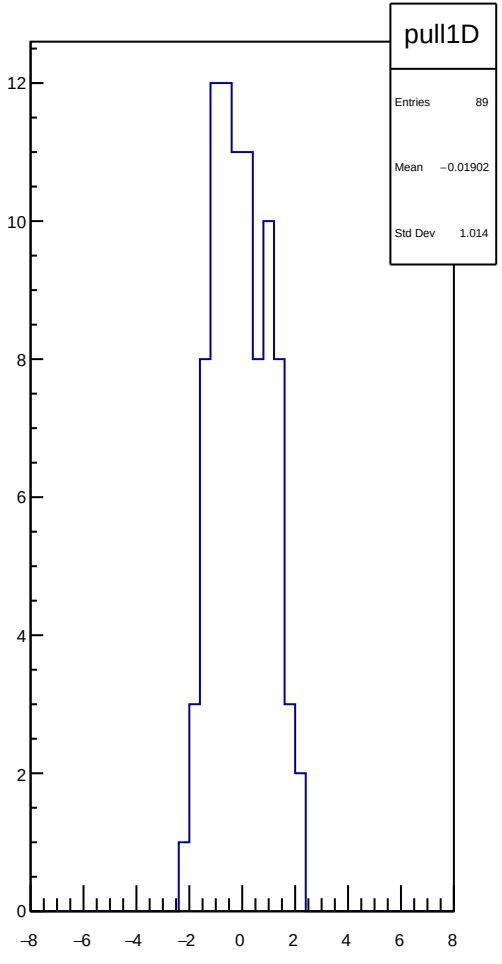

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1742 / 88
p0 0.001647 ± 1.266e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015

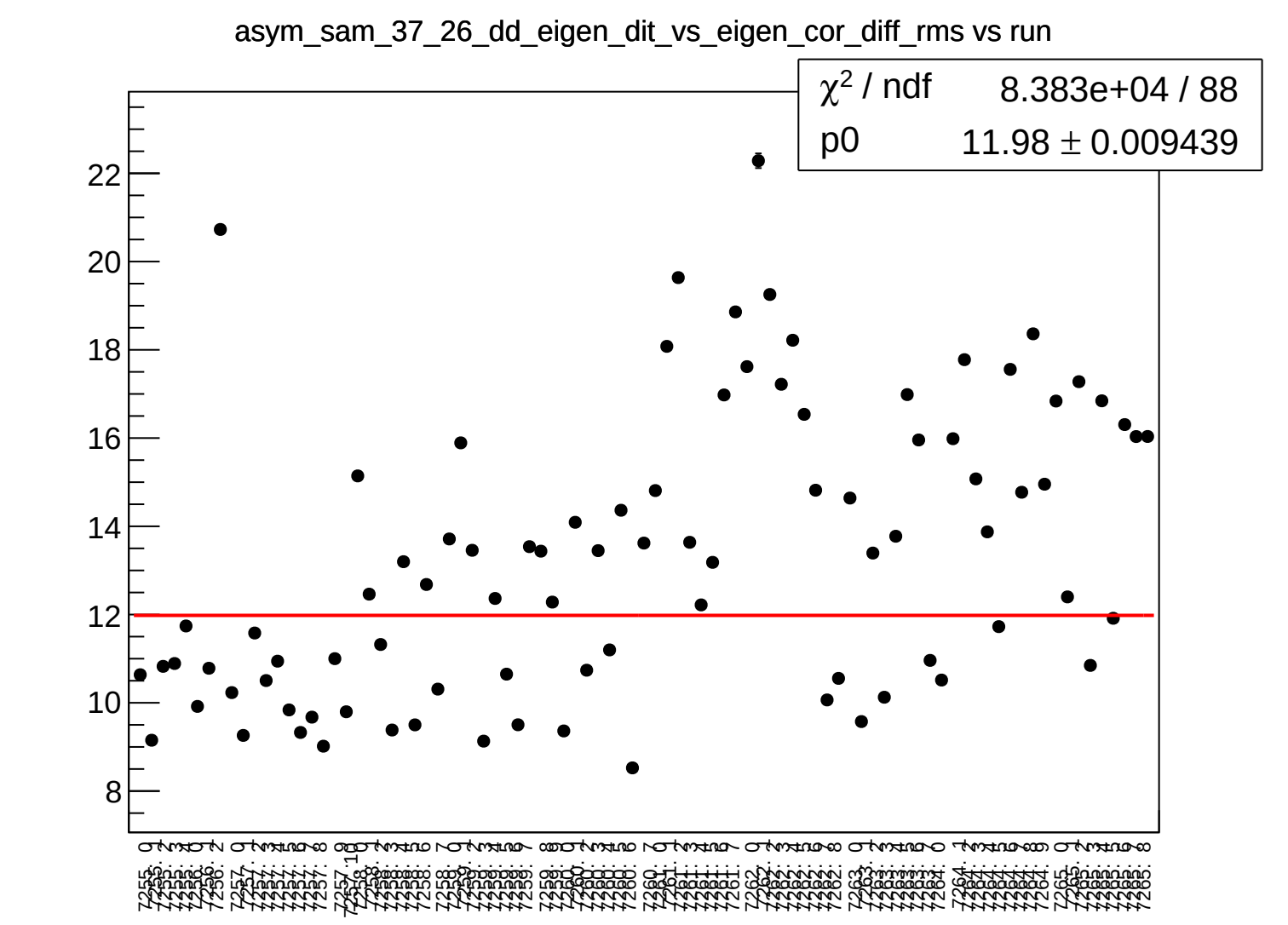

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.5 / 88
p0 −0.005959 ± 0.01335
pull
Entries 89
Mean 126.5
Std Dev 0

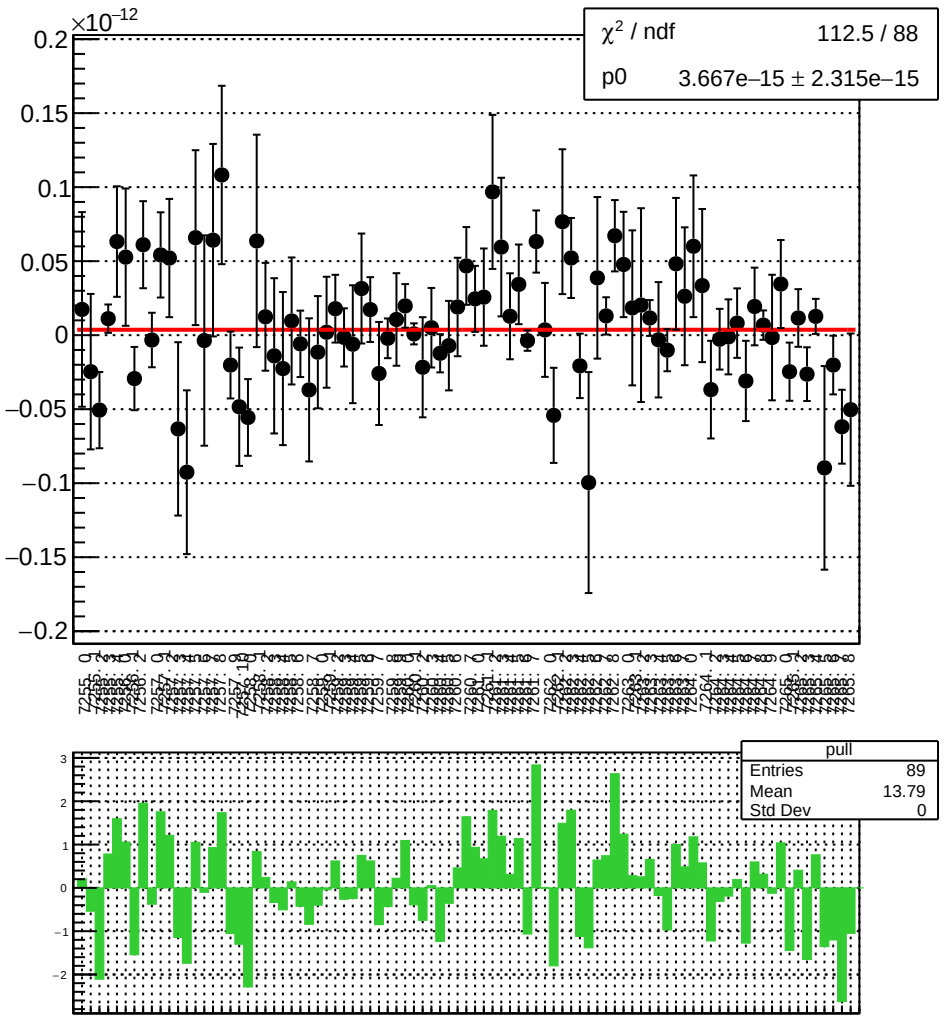

pull1D
Entries 89
Mean −0.01902
Std Dev 1.014

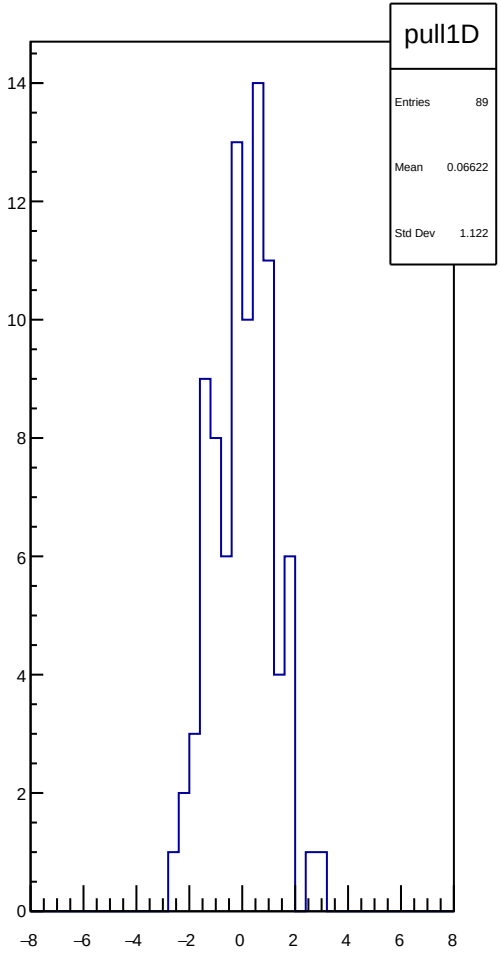

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.383e+04 / 88
p0 11.98 ± 0.009439
22
20
18
16
14
12
10
8

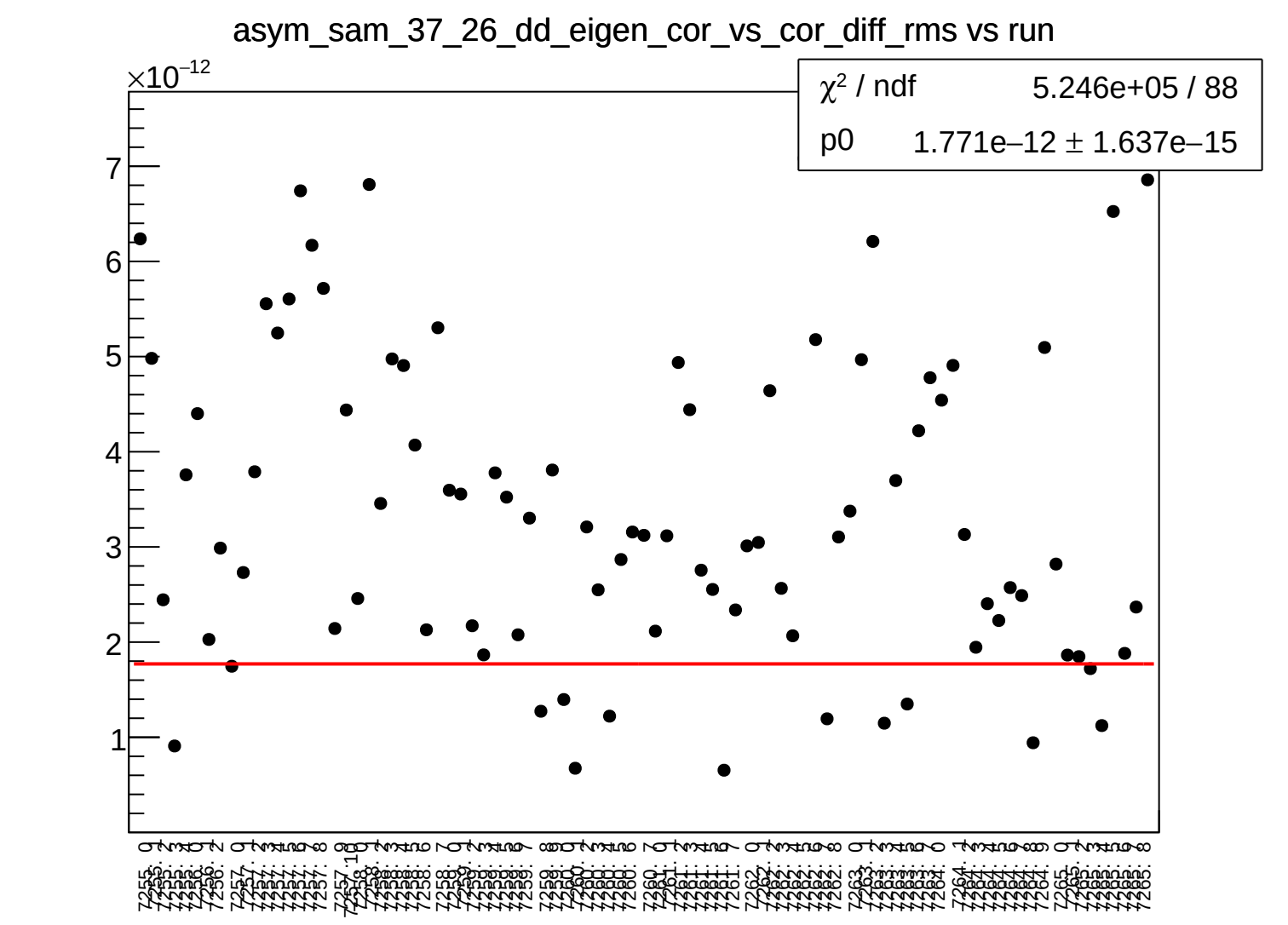

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.5 / 88
p0 −0.005959 ± 0.01335
pull
Entries 89
Mean 126.5
Std Dev 0

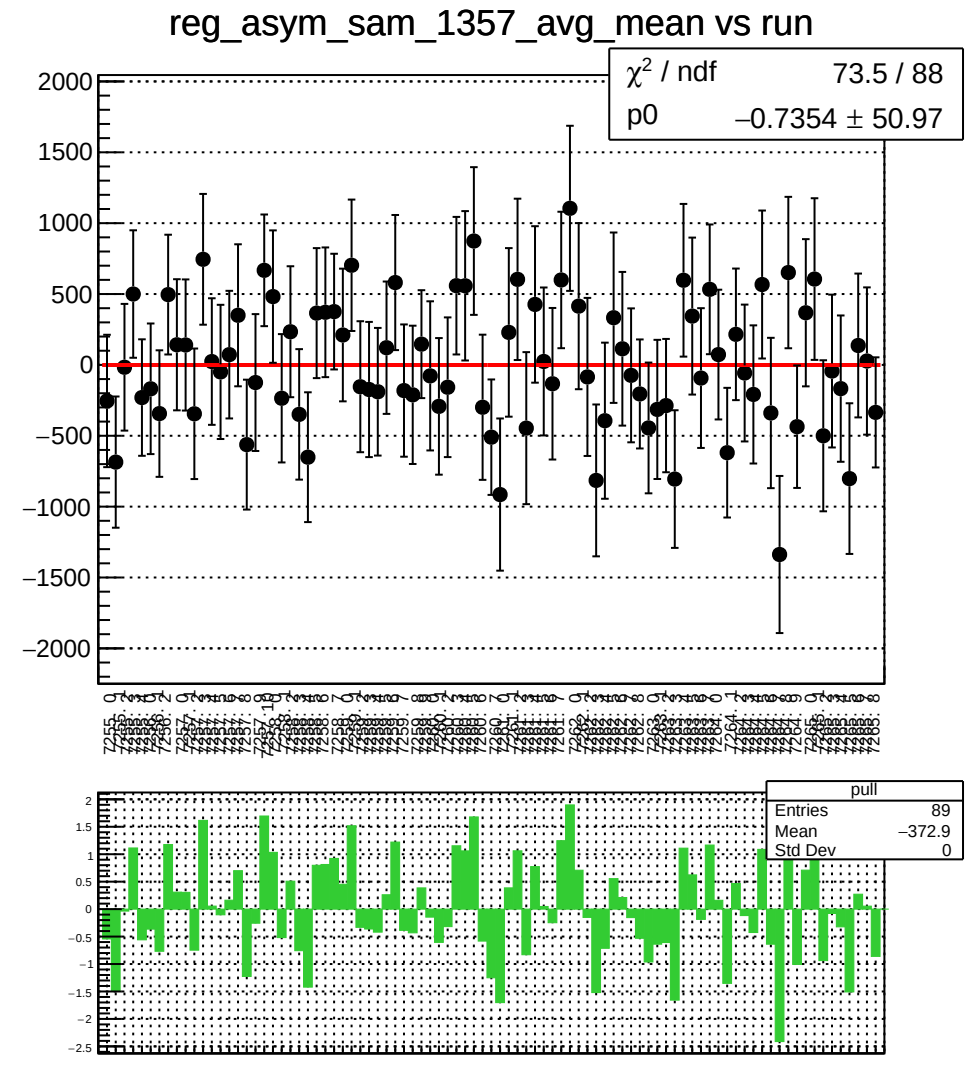

pull1D
Entries 89
Mean −0.01902
Std Dev 1.014

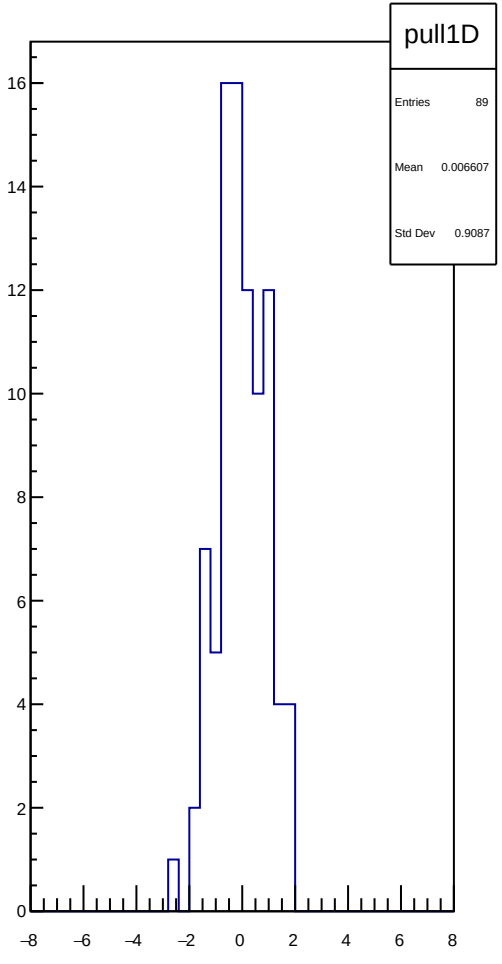

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.383e+04 / 88
p0 11.98 ± 0.009439
22
20
18
16
14
12
10
8

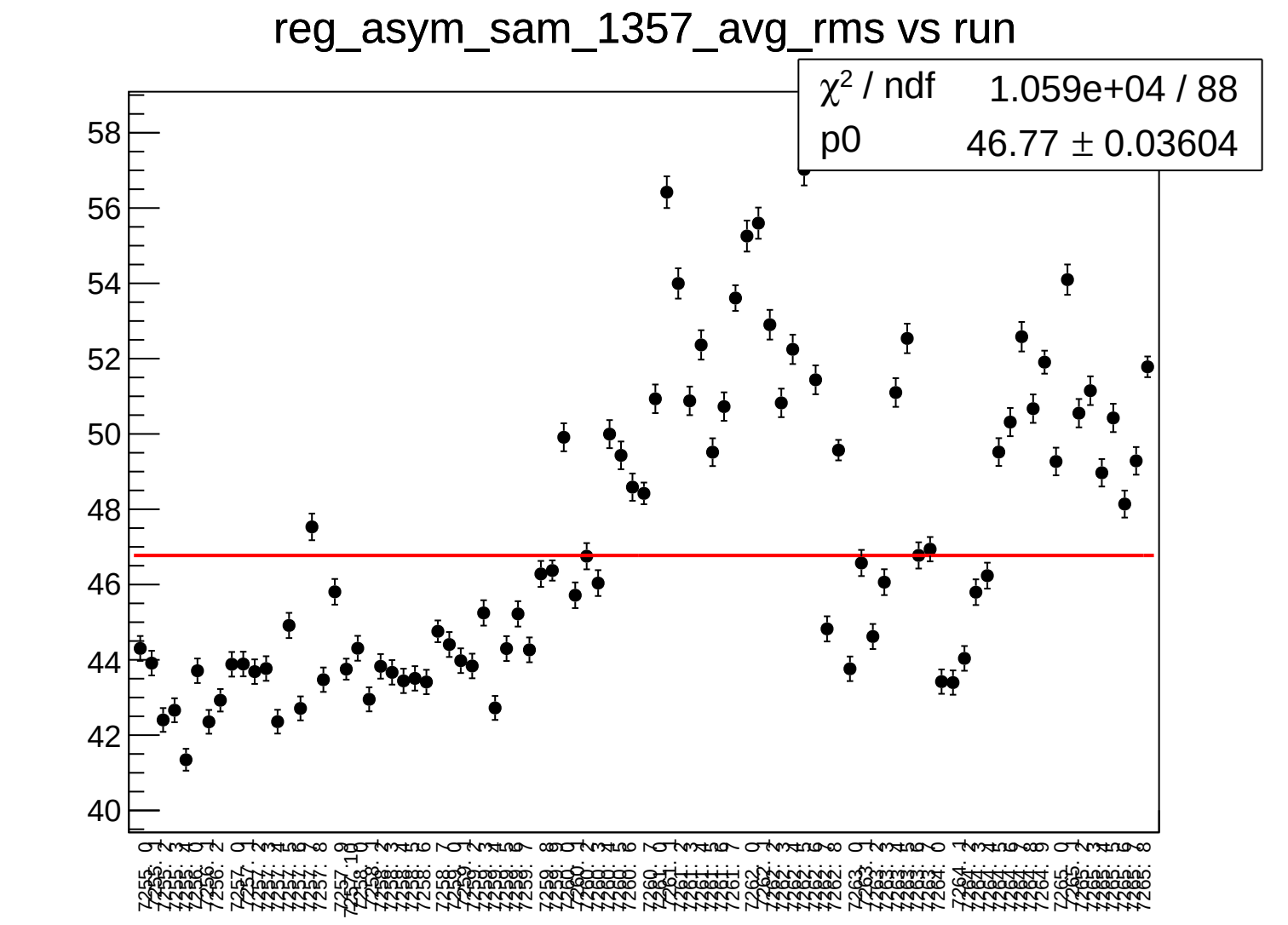

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112.5 / 88
p0 3.667e−15 ± 2.315e−15
pull
Entries 89
Mean 13.79
Std Dev 0

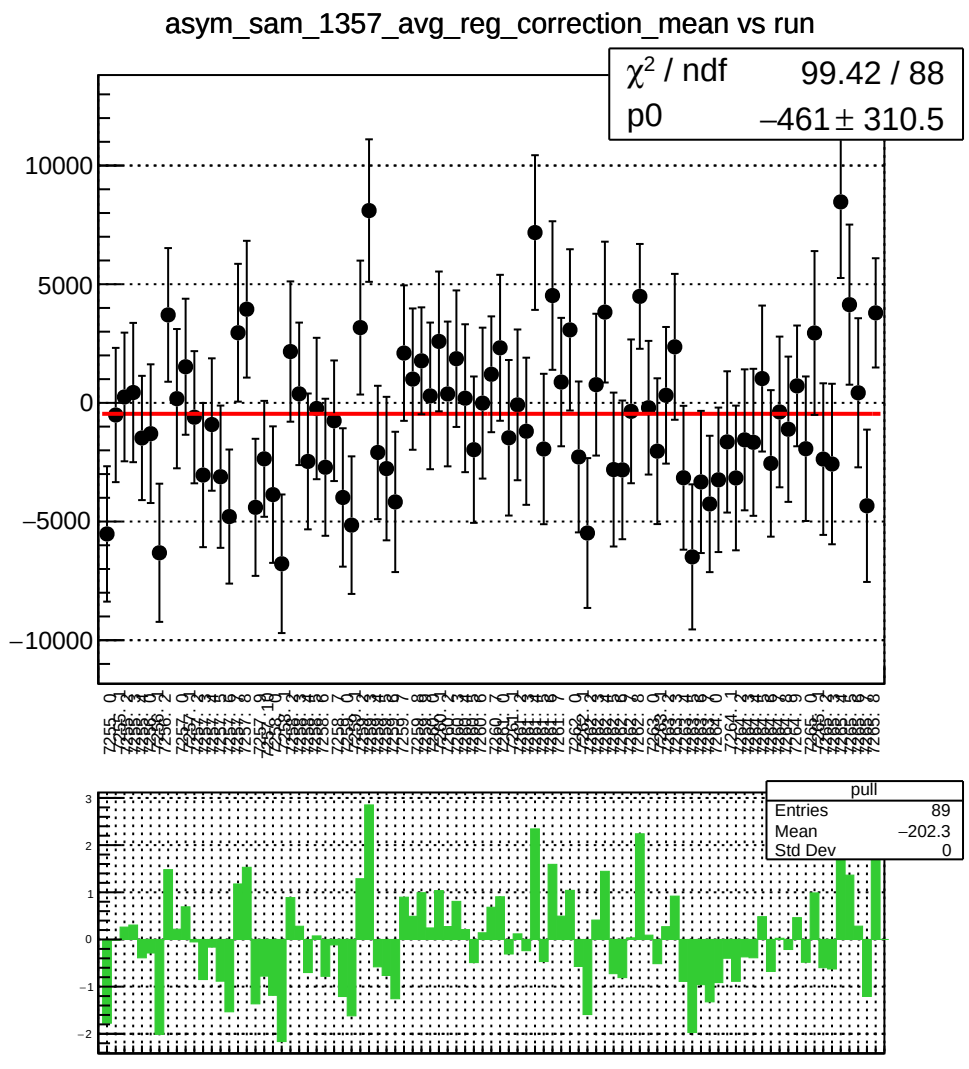

pull1D
Entries 89
Mean 0.06622
Std Dev 1.122

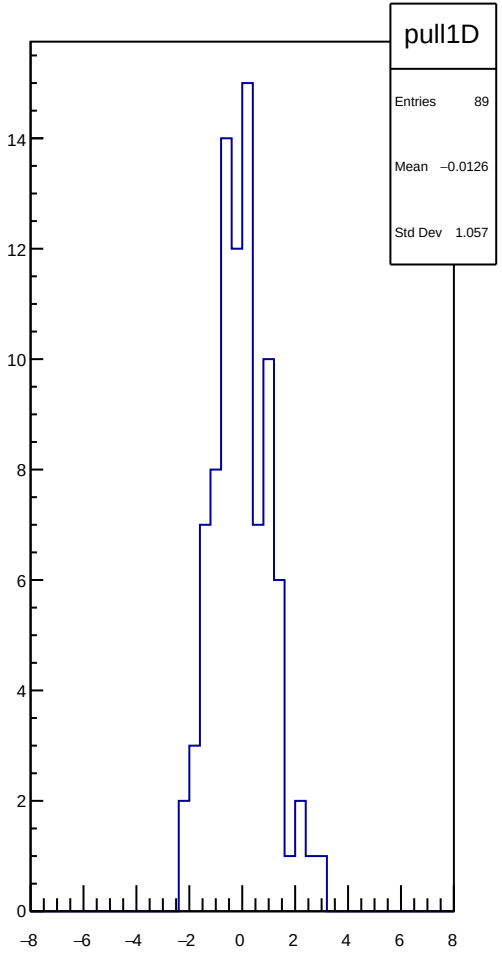

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.246e+05 / 88
p0 1.771e−12 ± 1.637e−15
7
6
5
4
3
2
1

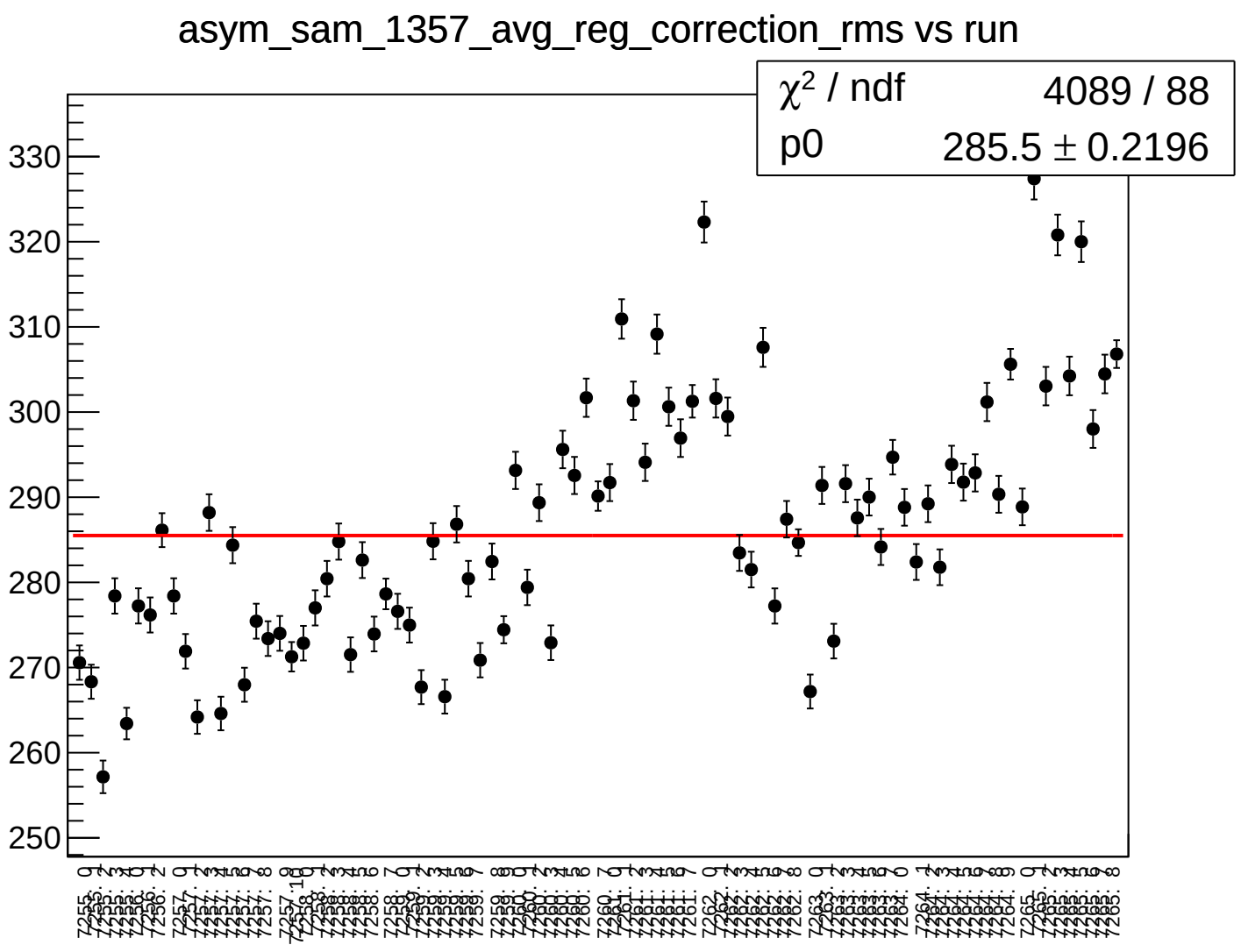

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 73.5 / 88
p0 −0.7354 ± 50.97
pull
Entries 89
Mean −372.9
Std Dev 0

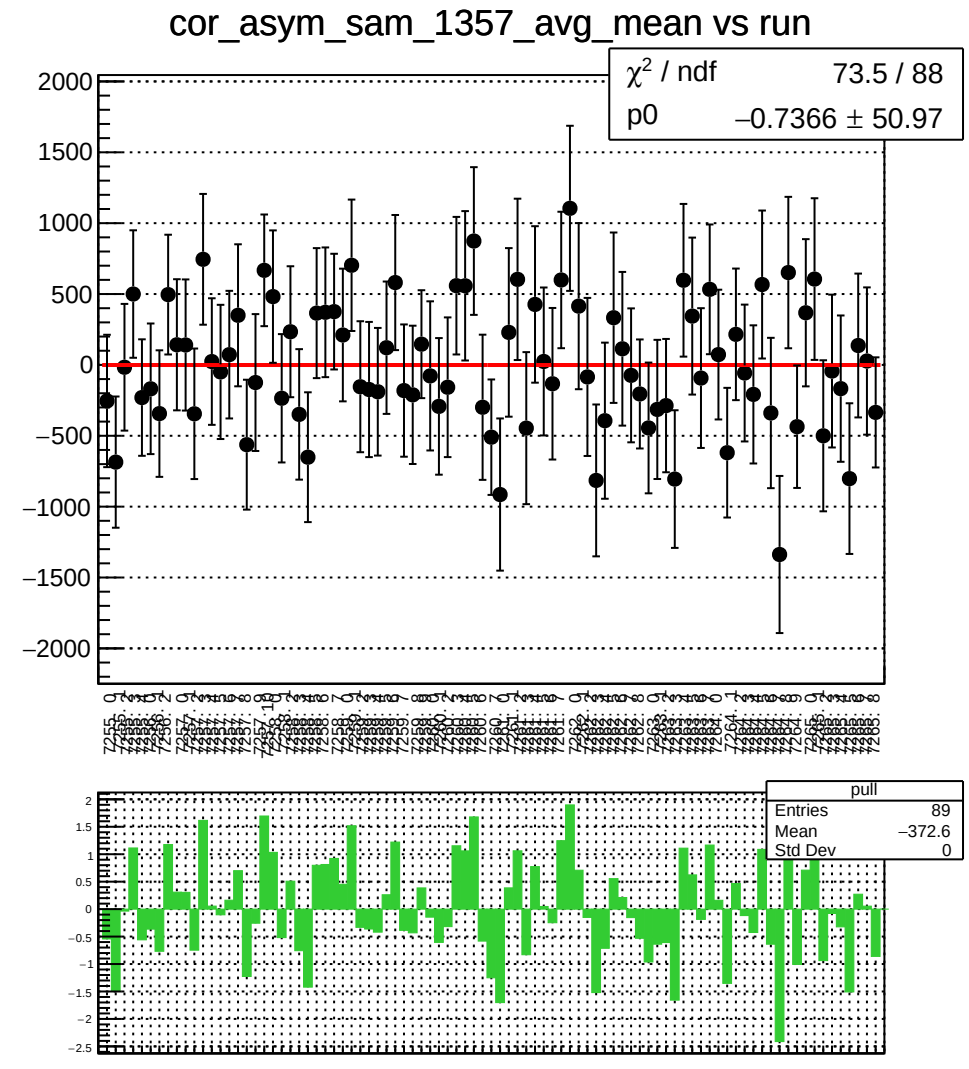

pull1D
Entries 89
Mean 0.006607
Std Dev 0.9087

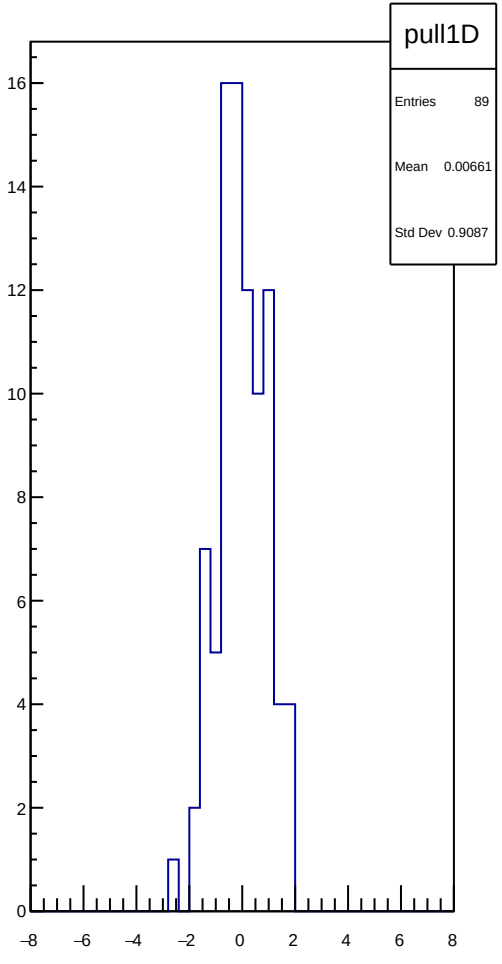

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 1.059e+04 / 88
p0 46.77 ± 0.03604
58
56
54
52
50
48
46
44
42
40

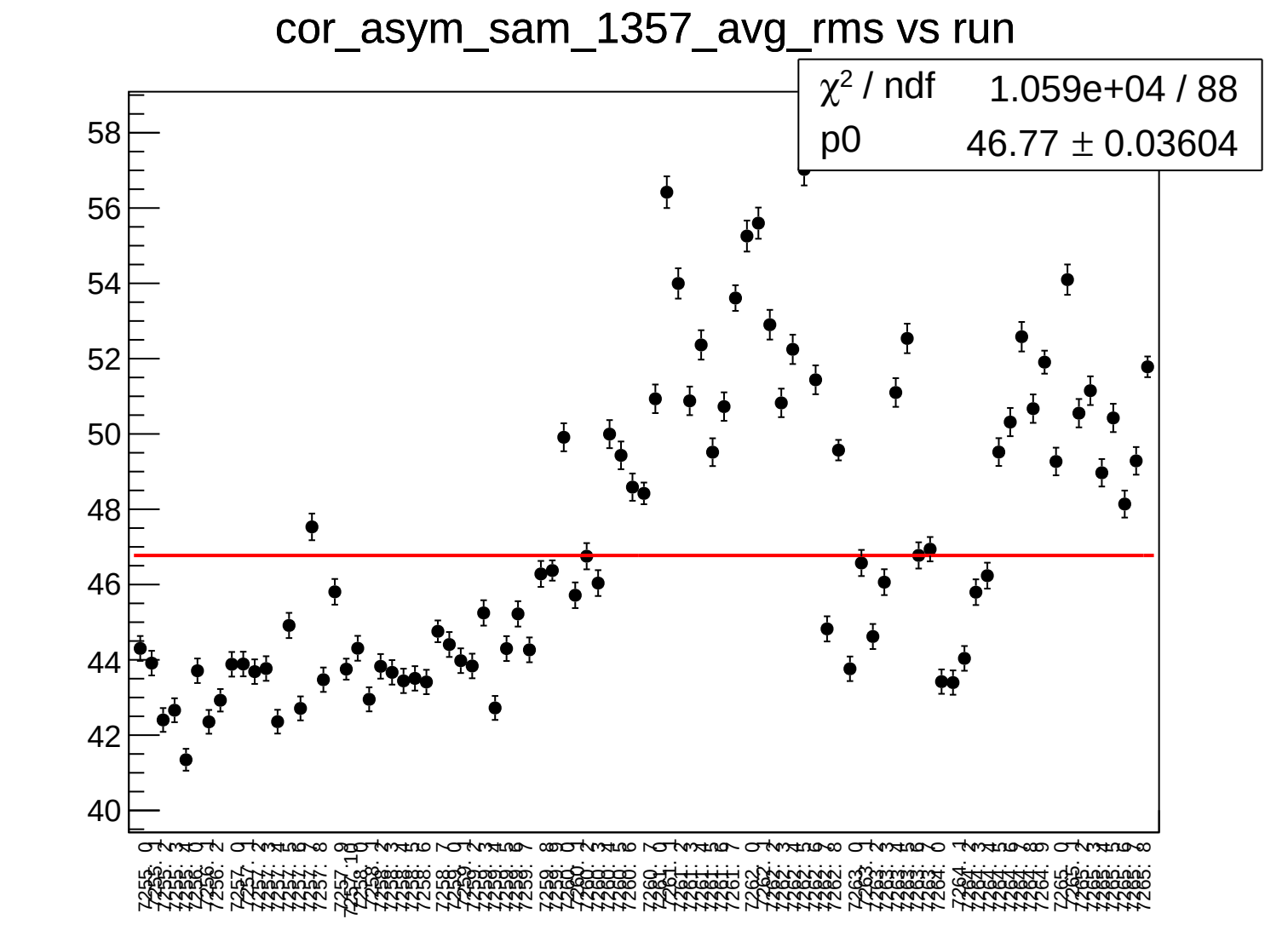

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 99.42 / 88
p0 −461 ± 310.5
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −202.3
Std Dev 0
3
2
1
0
−1
−2

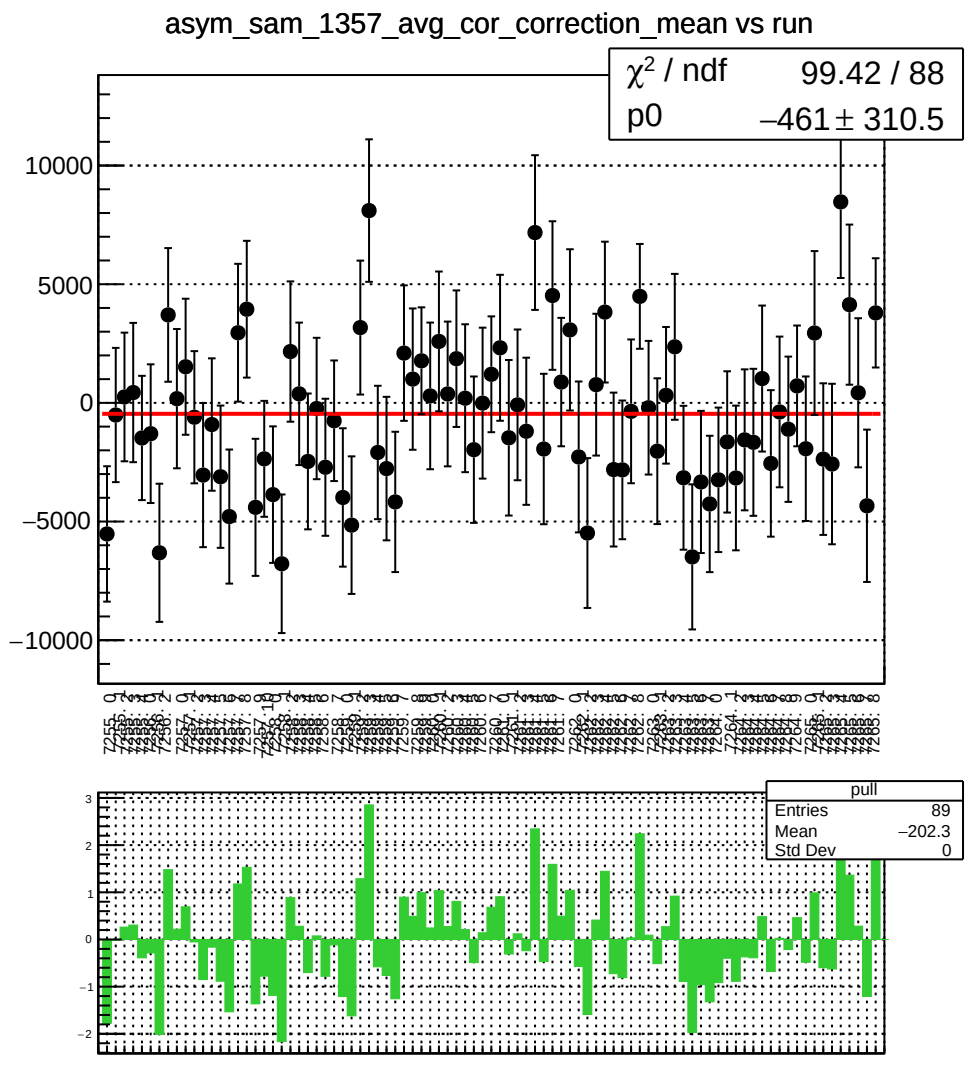

pull1D
Entries 89
Mean −0.0126
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

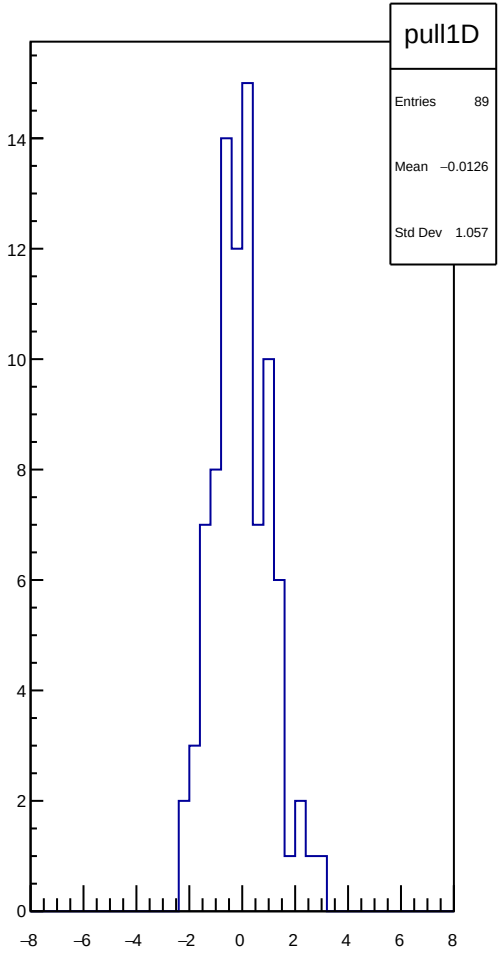

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 4089 / 88
p0 285.5 ± 0.2196
330
320
310
300
290
280
270
260
250

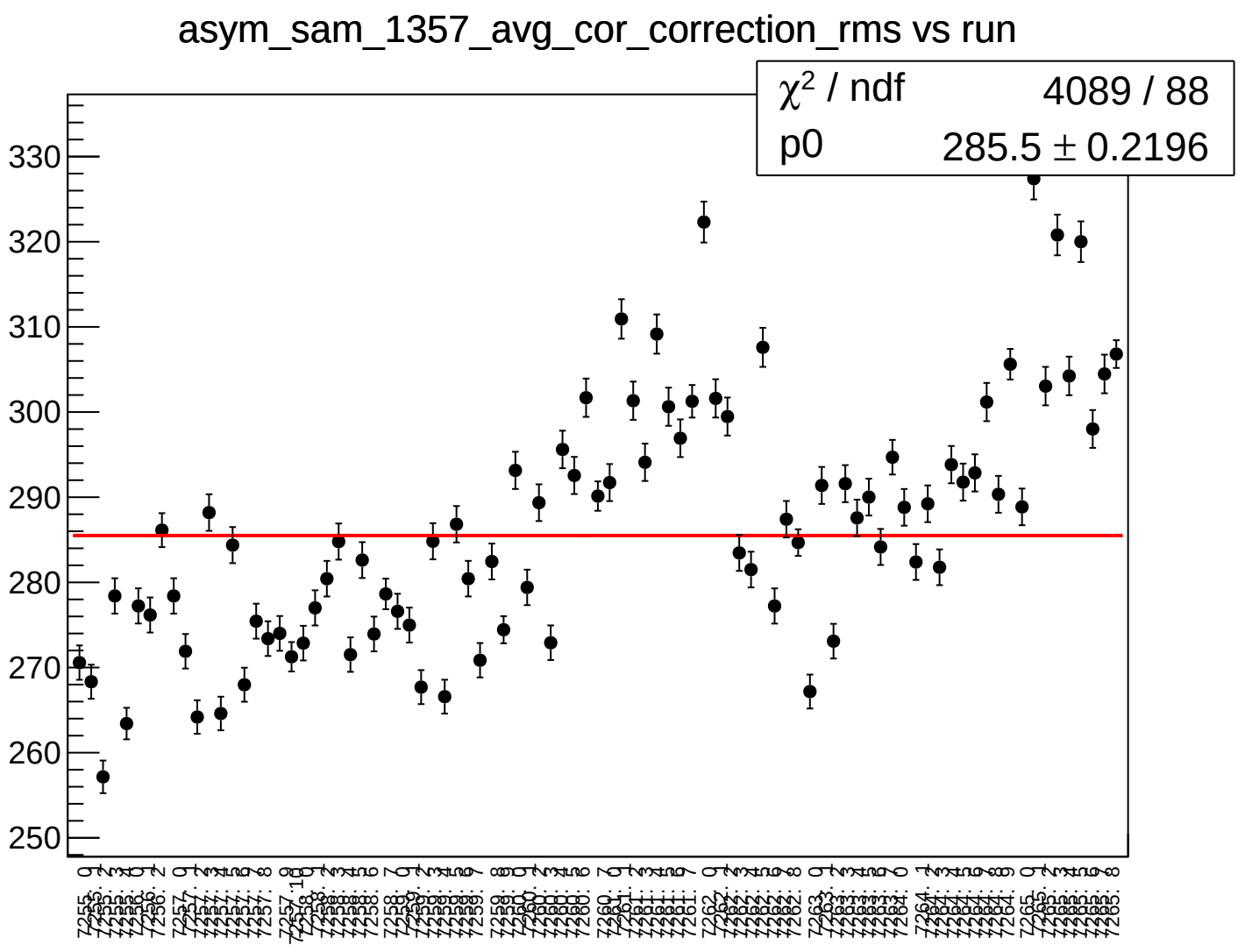

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 73.5 / 88
p0 −0.7366 ± 50.97
pull
Entries 89
Mean −372.6
Std Dev 0

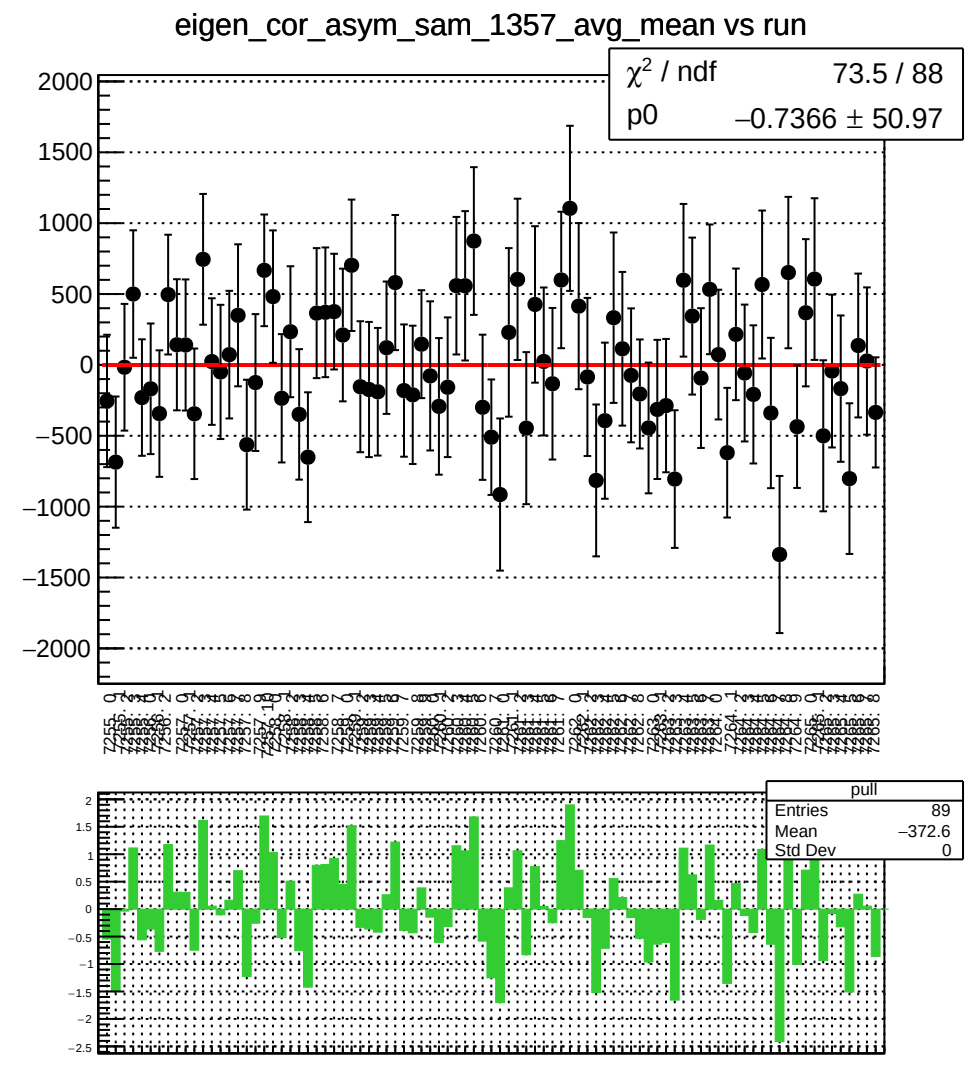

pull1D
Entries 89
Mean 0.00661
Std Dev 0.9087

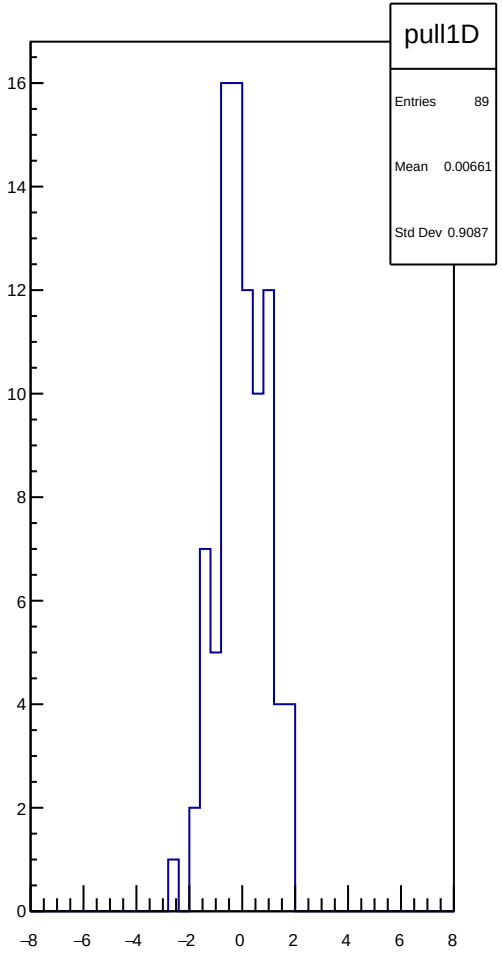

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.059e+04 / 88
p0 46.77 ± 0.03604
58
56
54
52
50
48
46
44
42
40

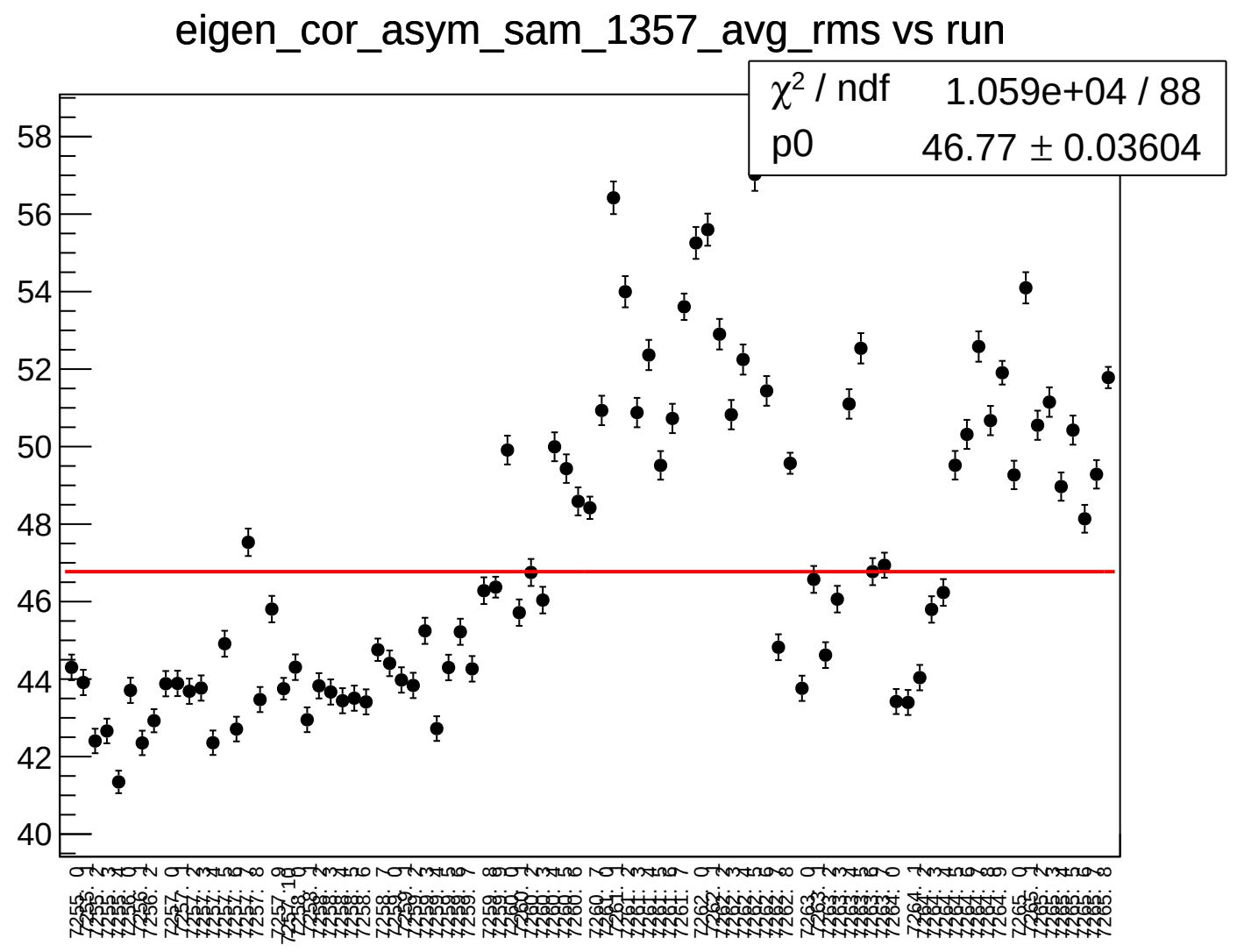

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 99.42 / 88
p0 −461 ± 310.5
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −202.3
Std Dev 0
3
2
1
0
−1
−2

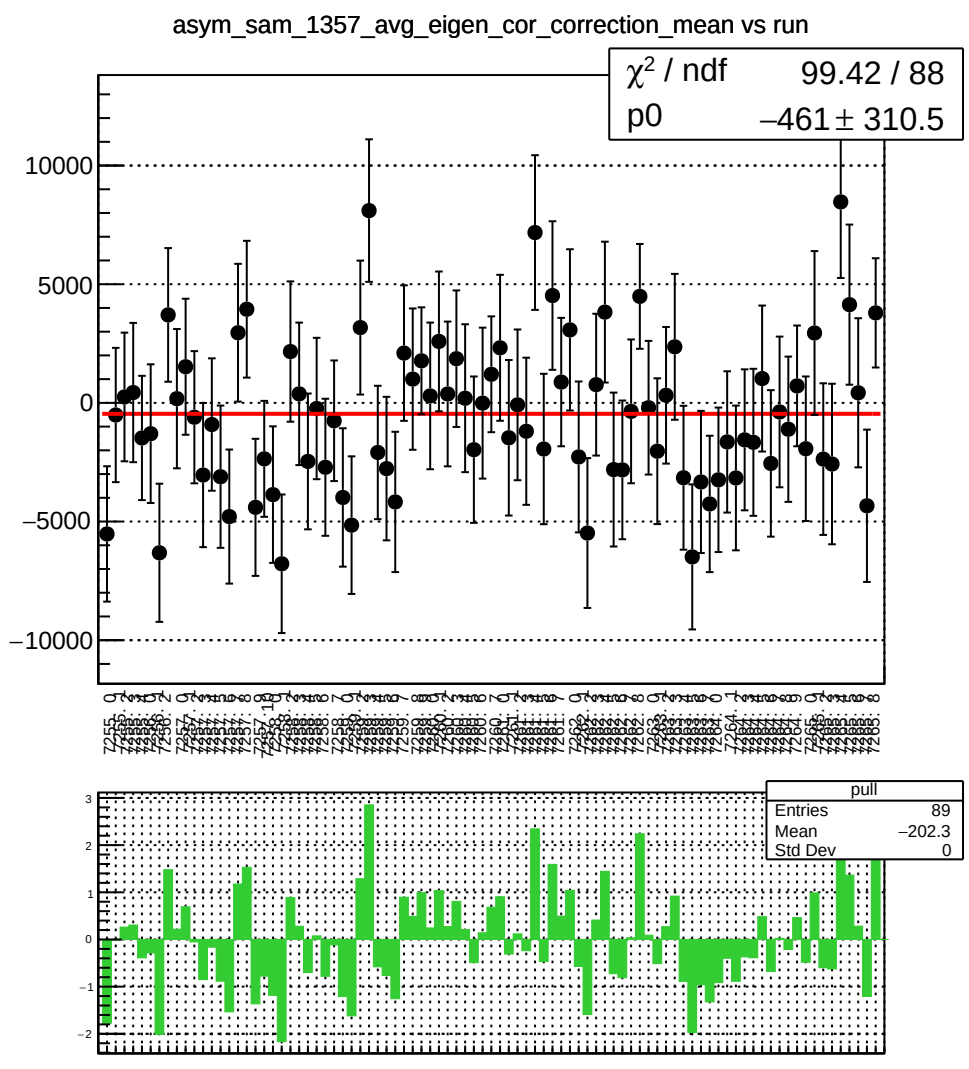

pull1D
Entries 89
Mean −0.0126
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

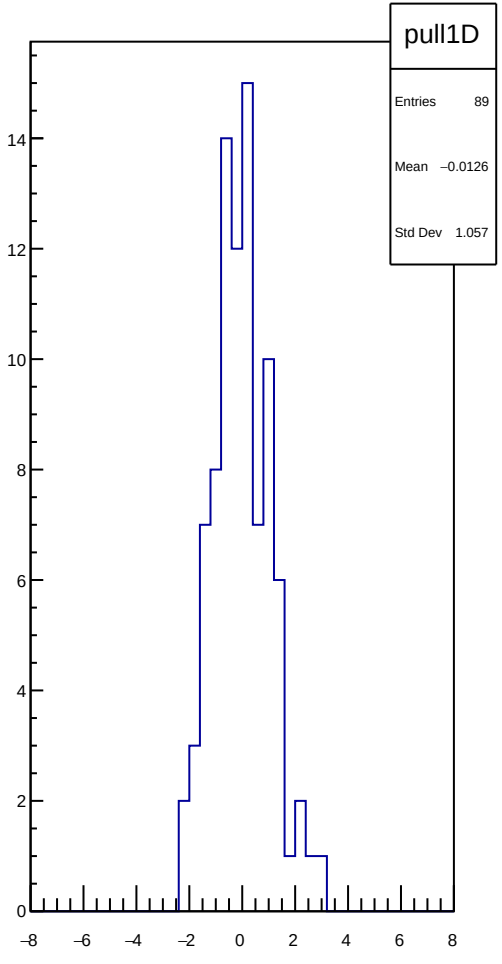

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 4089 / 88
p0 285.5 ± 0.2196
330
320
310
300
290
280
270
260
250

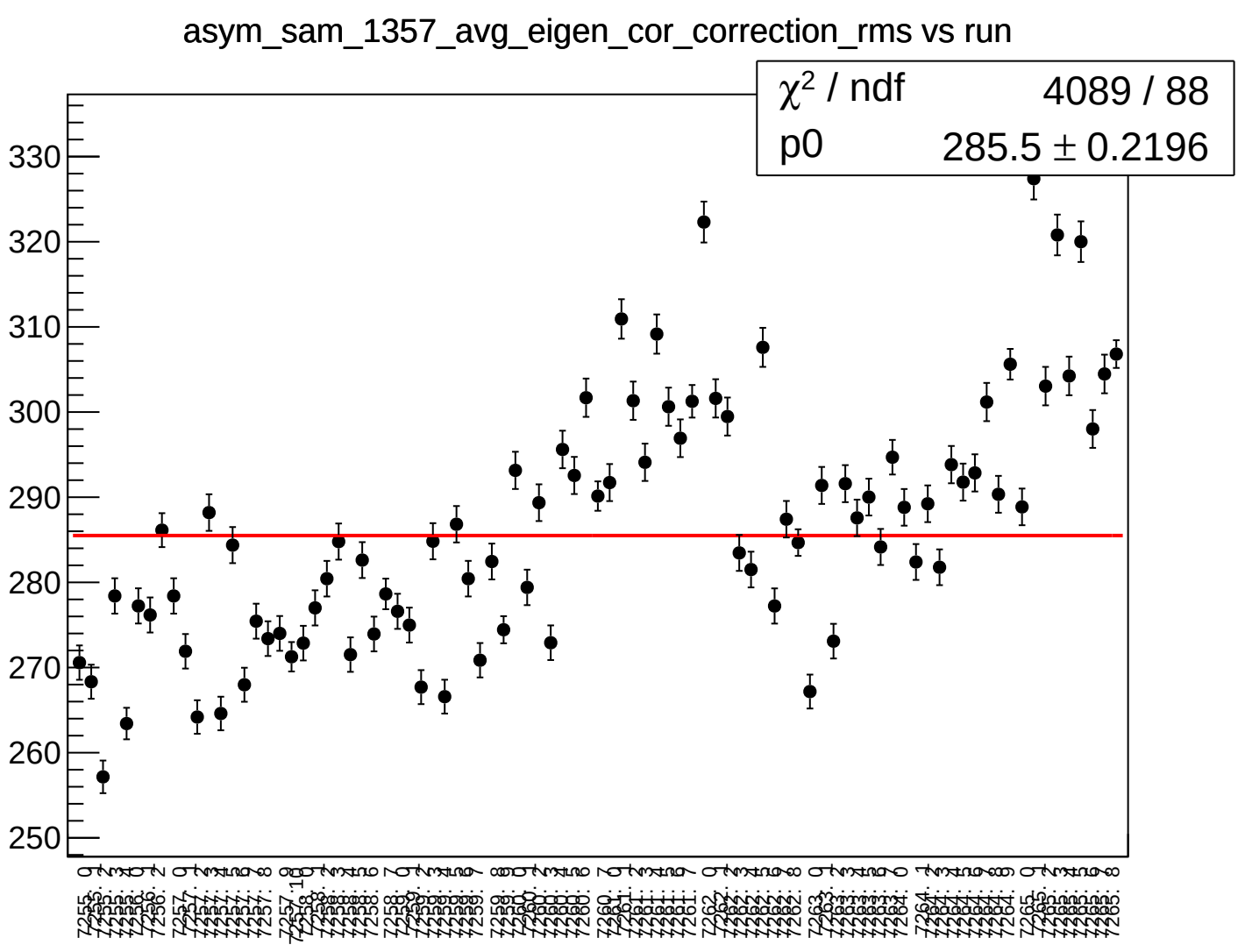

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 73.5 / 88
p0 −0.7366 ± 50.97
pull
Entries 89
Mean −372.6
Std Dev 0

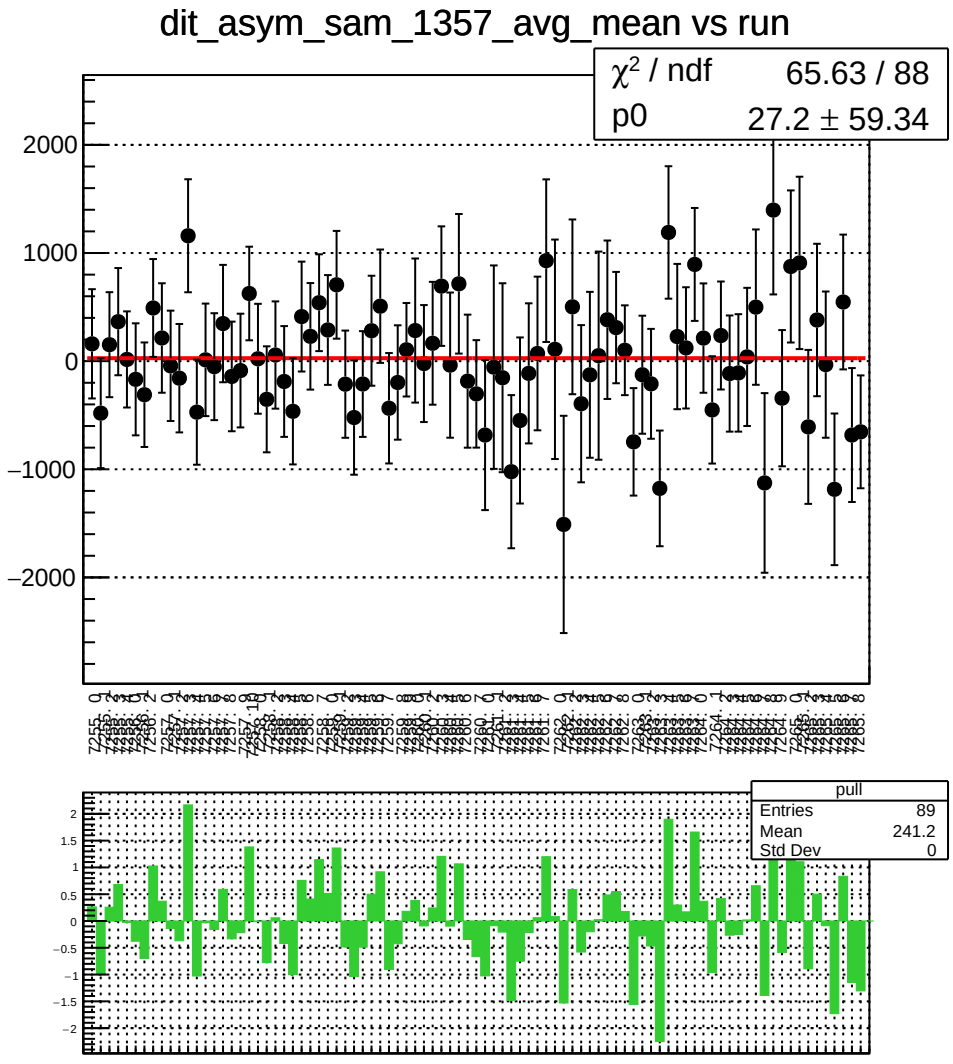

pull1D
Entries 89
Mean 0.00661
Std Dev 0.9087

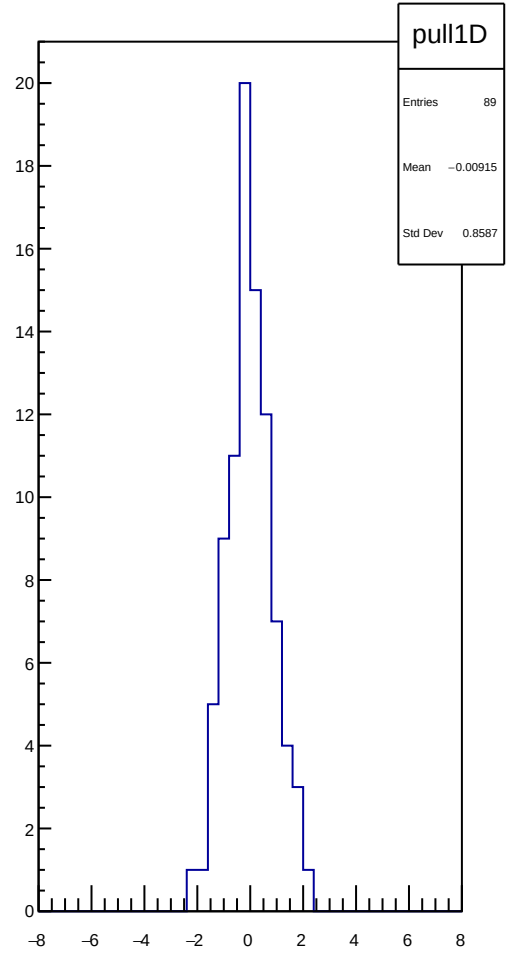

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.059e+04 / 88
p0 46.77 ± 0.03604
58
56
54
52
50
48
46
44
42
40

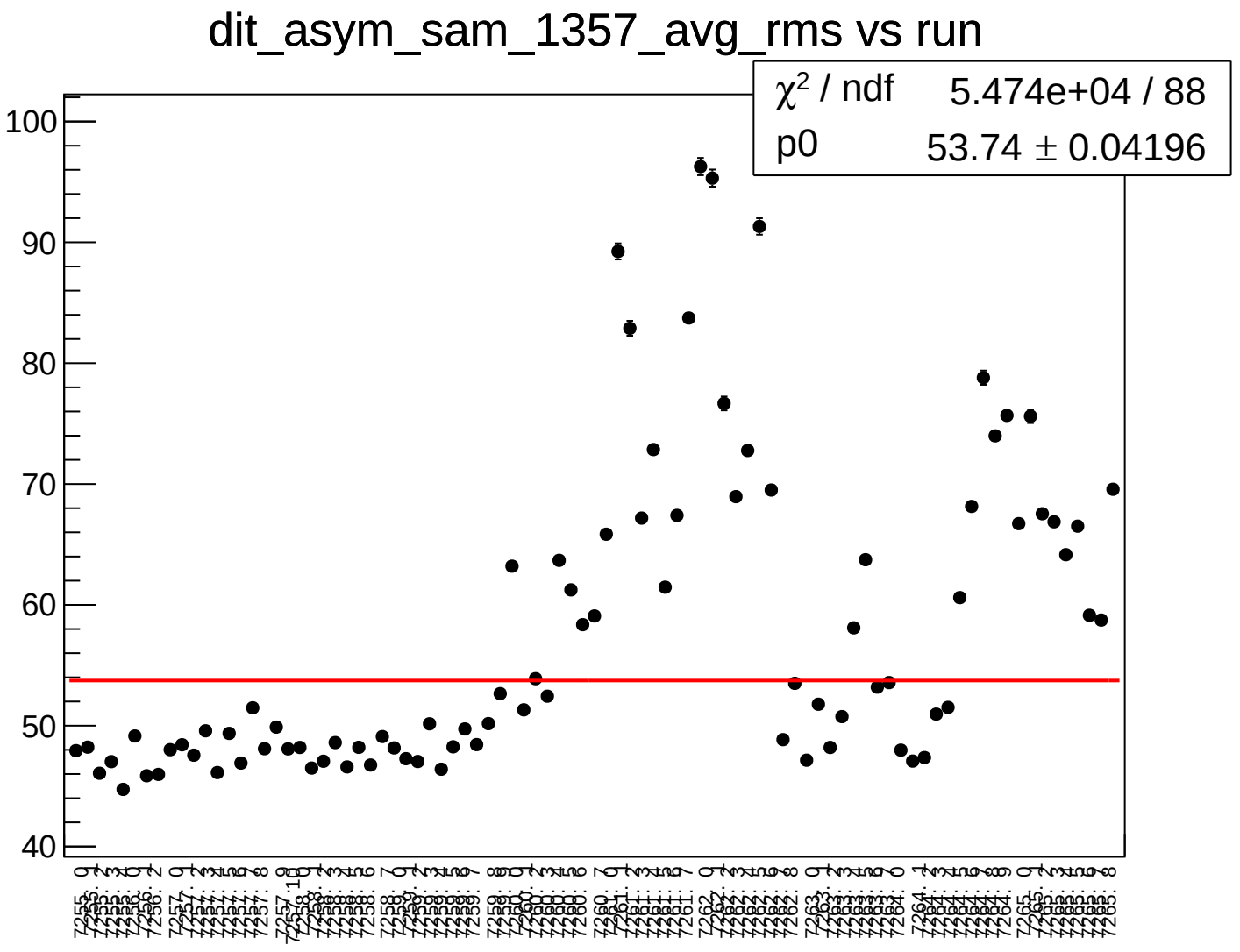

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.42 / 88
p0 −461 ± 310.5
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −202.3
Std Dev 0
3
2
1
0
−1
−2

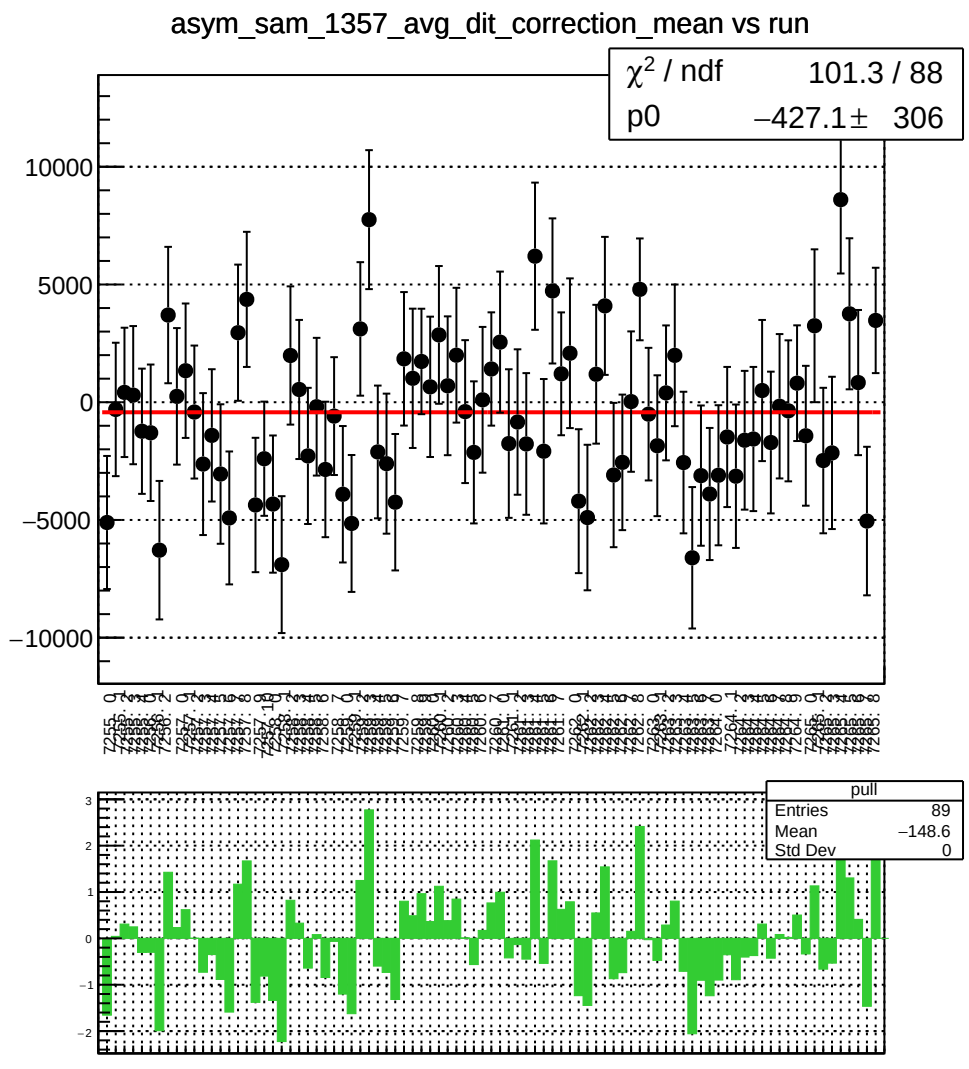

pull1D
Entries 89
Mean −0.0126
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

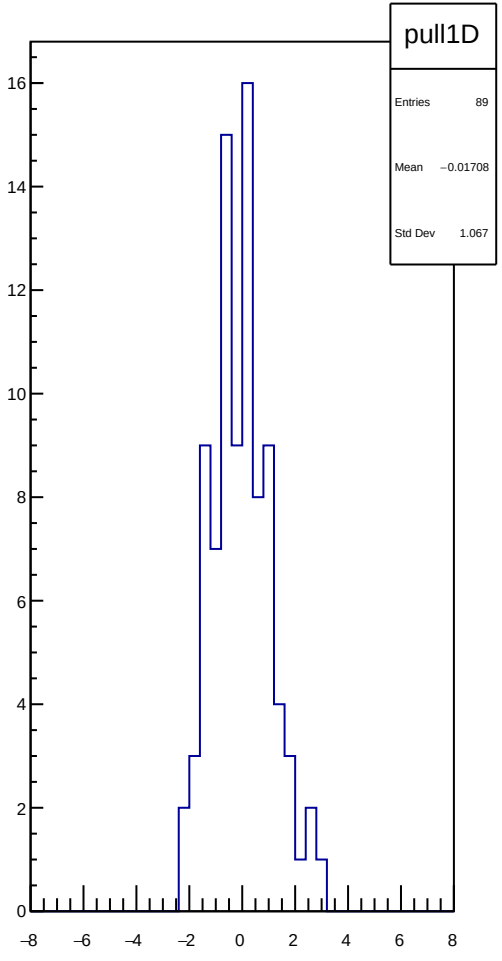

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 4089 / 88
p0 285.5 ± 0.2196
330
320
310
300
290
280
270
260
250

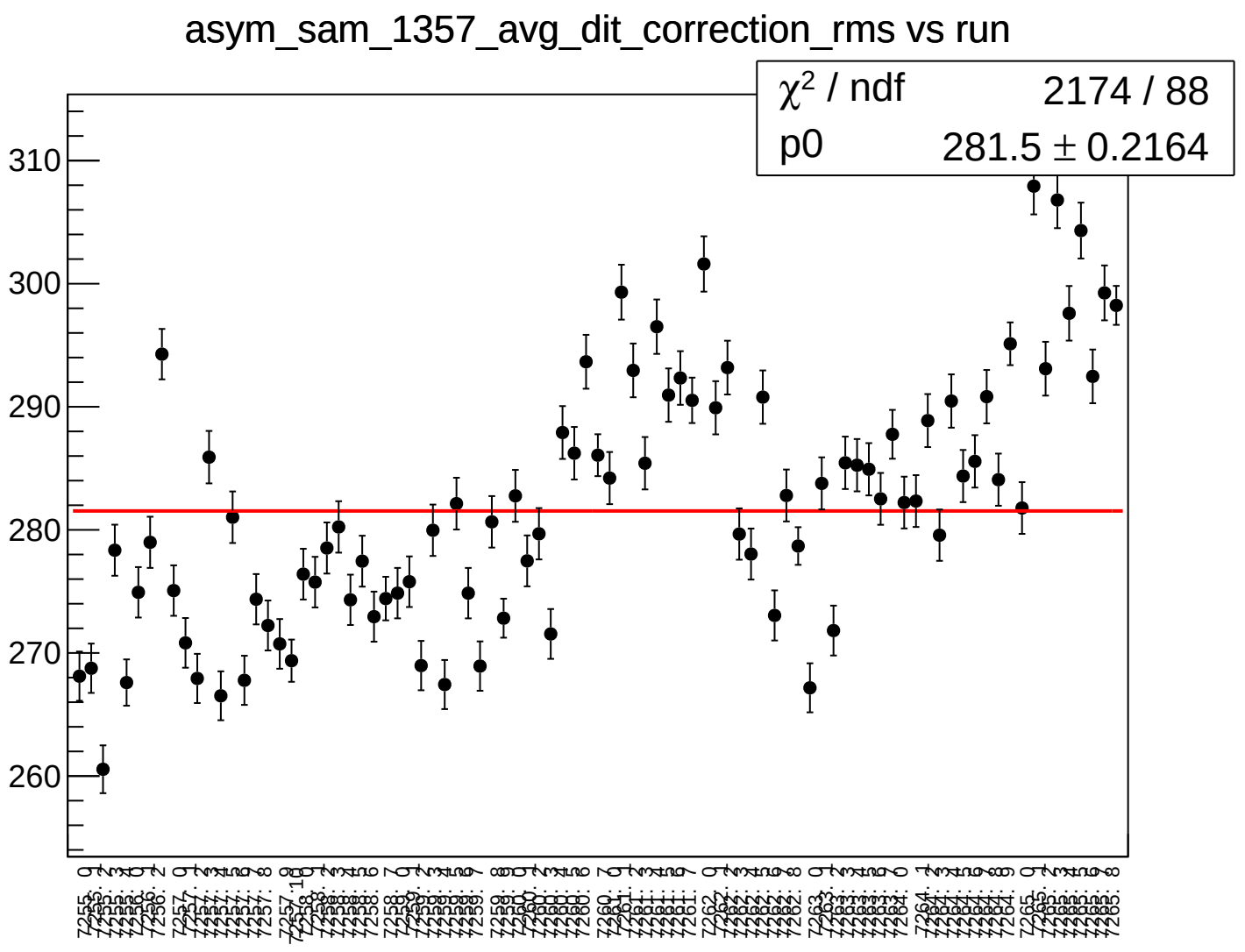

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 65.63 / 88
p0 27.2 ± 59.34
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 241.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

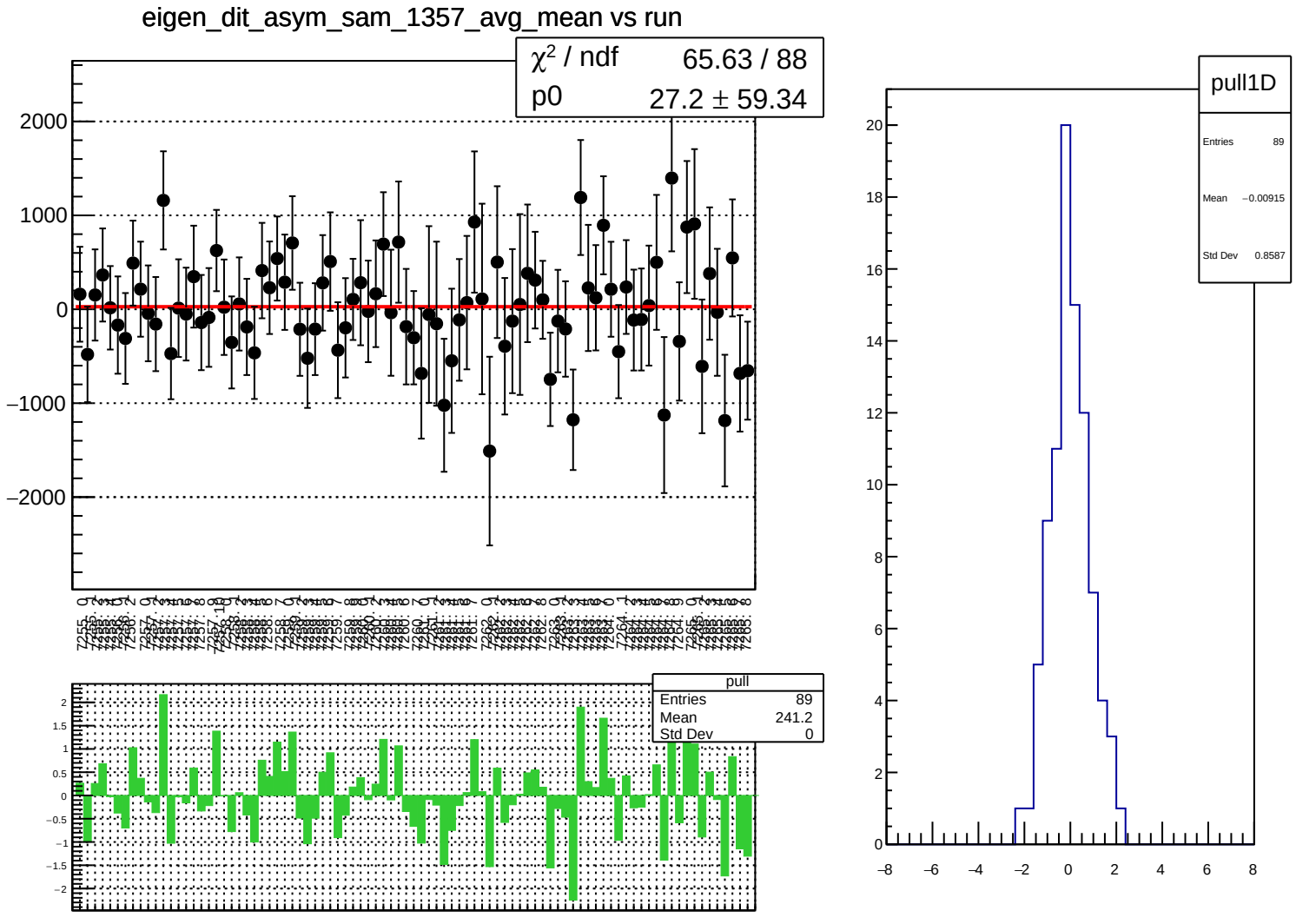

pull1D
Entries 89
Mean −0.00915
Std Dev 0.8587
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

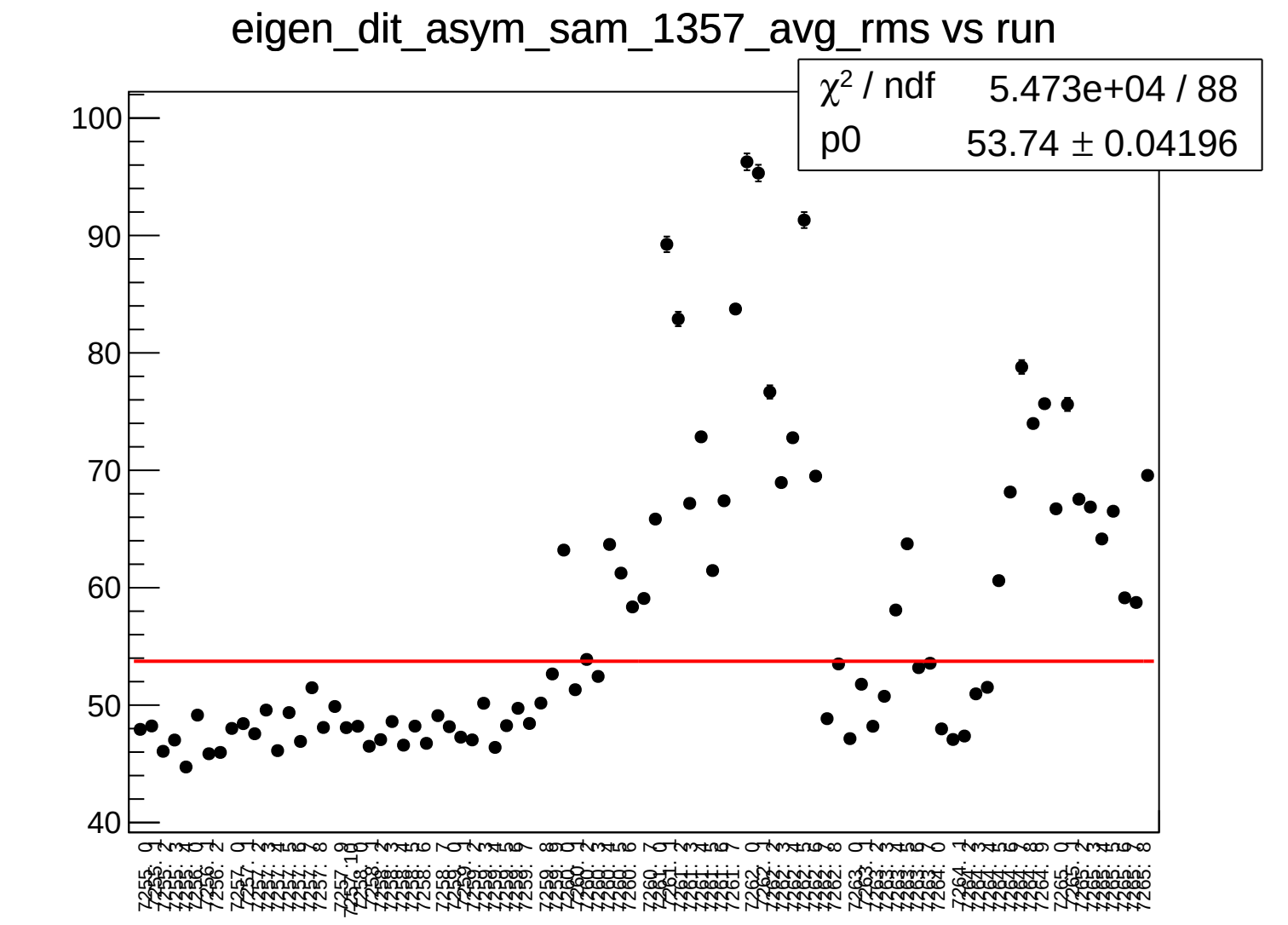

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 5.474e+04 / 88
p0 53.74 ± 0.04196
100
90
80
70
60
50
40

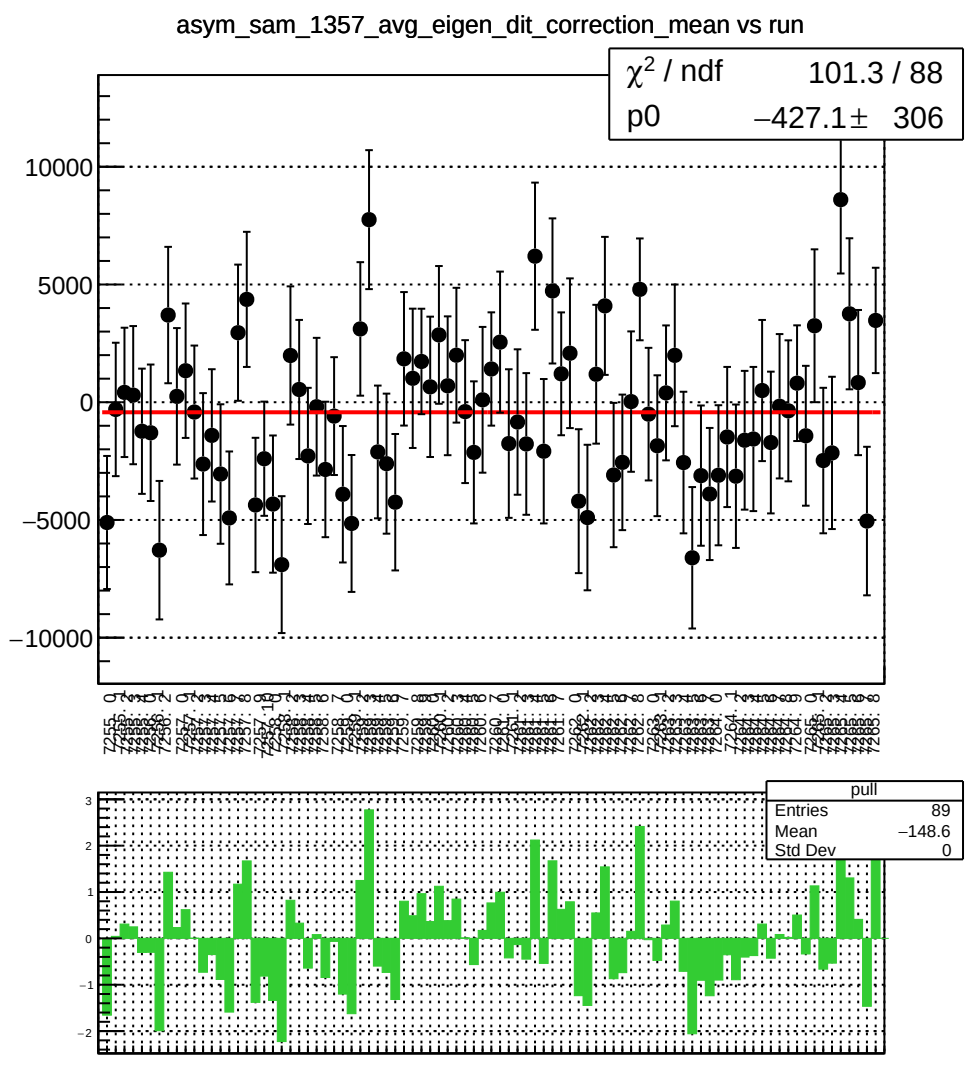

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 101.3 / 88
p0 −427.1± 306
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −148.6
Std Dev 0
3
2
1
0
−1
−2

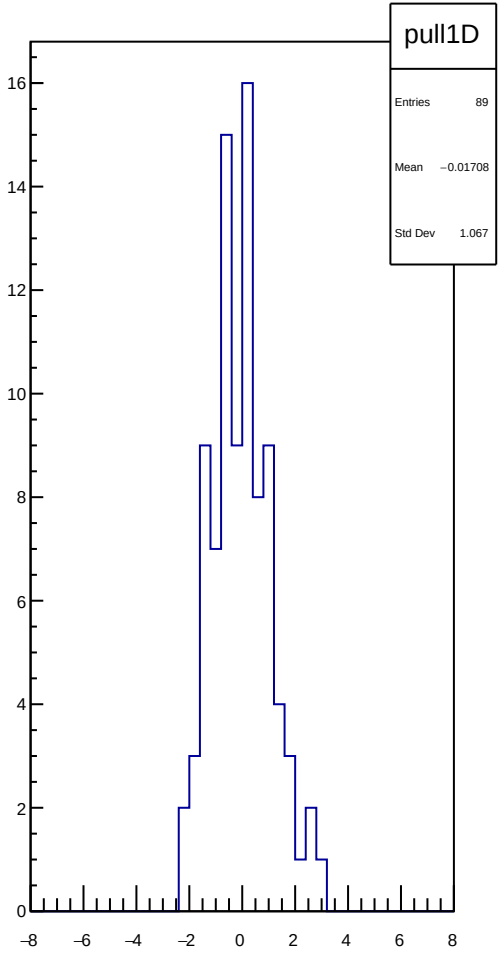

pull1D
Entries 89
Mean −0.01708
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

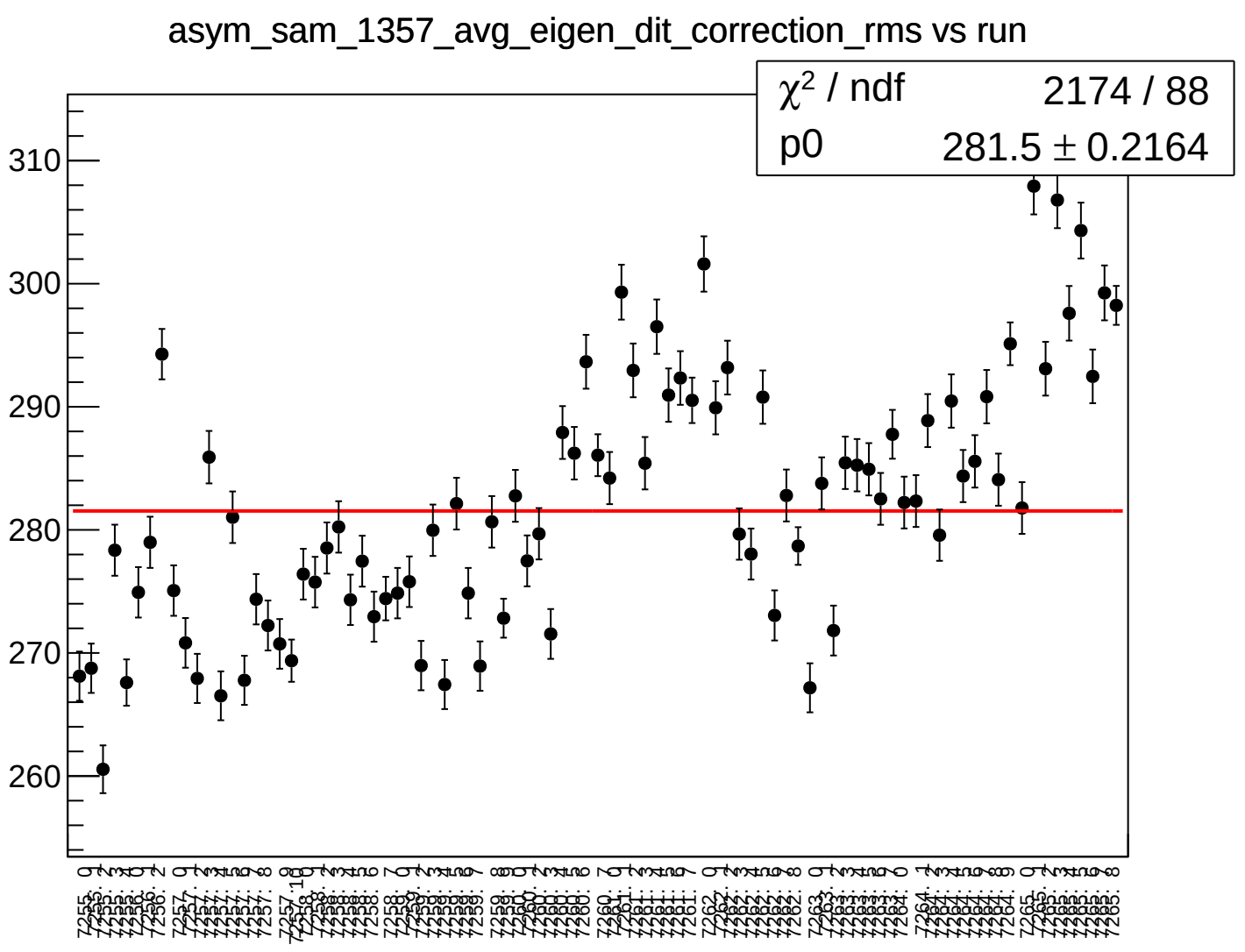

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 2174 / 88
p0 281.5 ± 0.2164
310
300
290
280
270
260

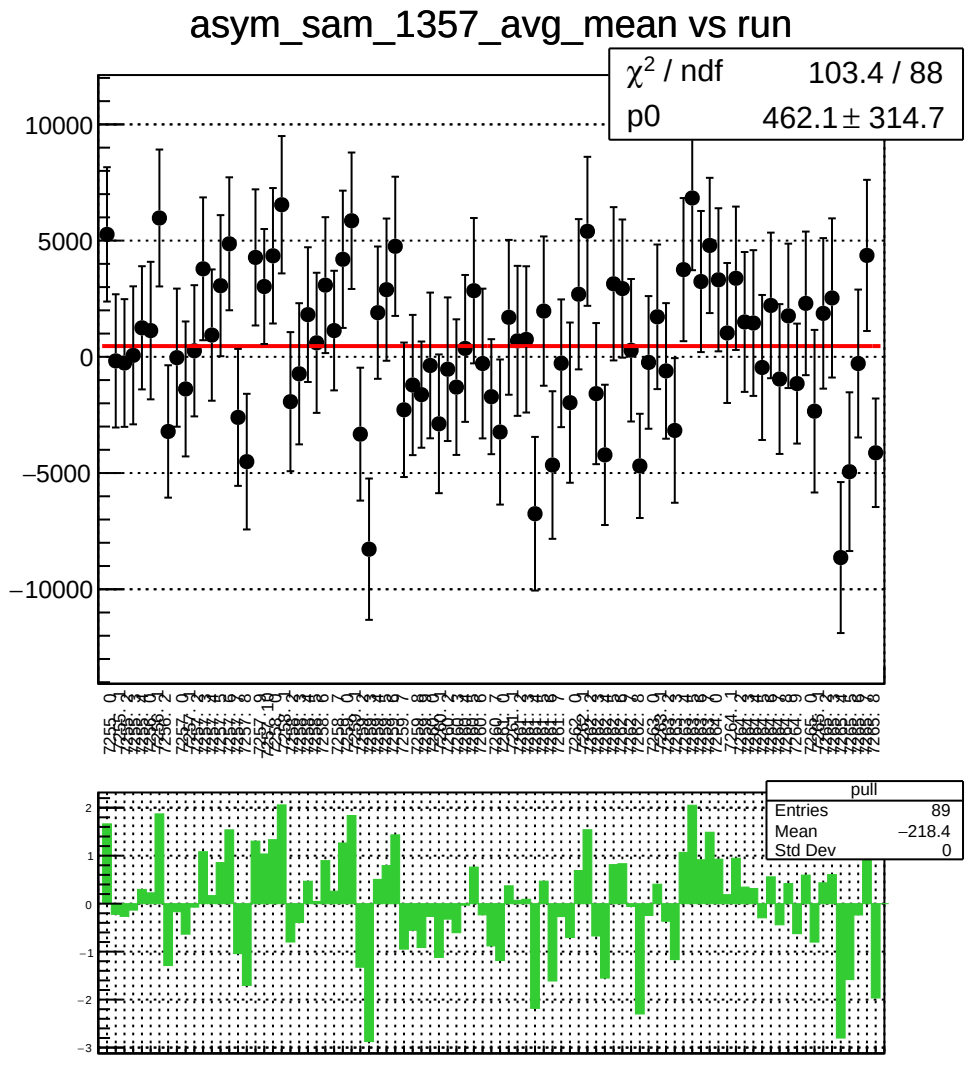

eigen_dit_asym_sam_1357_avg_mean vs run
χ^2 / ndf 65.63 / 88
p0 27.2 ± 59.34
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 241.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.00915
Std Dev 0.8587
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

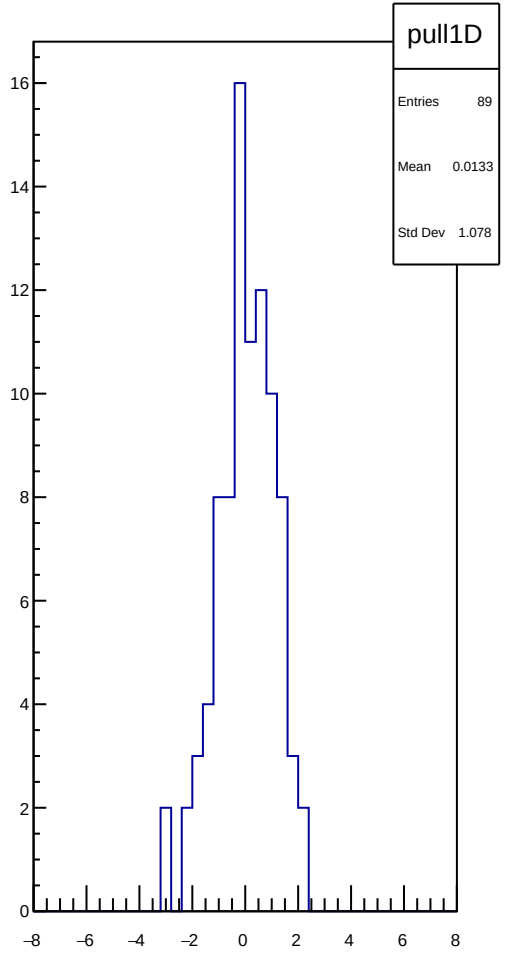

eigen_dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 5.473e+04 / 88
p0 53.74 ± 0.04196
100
90
80
70
60
50
40

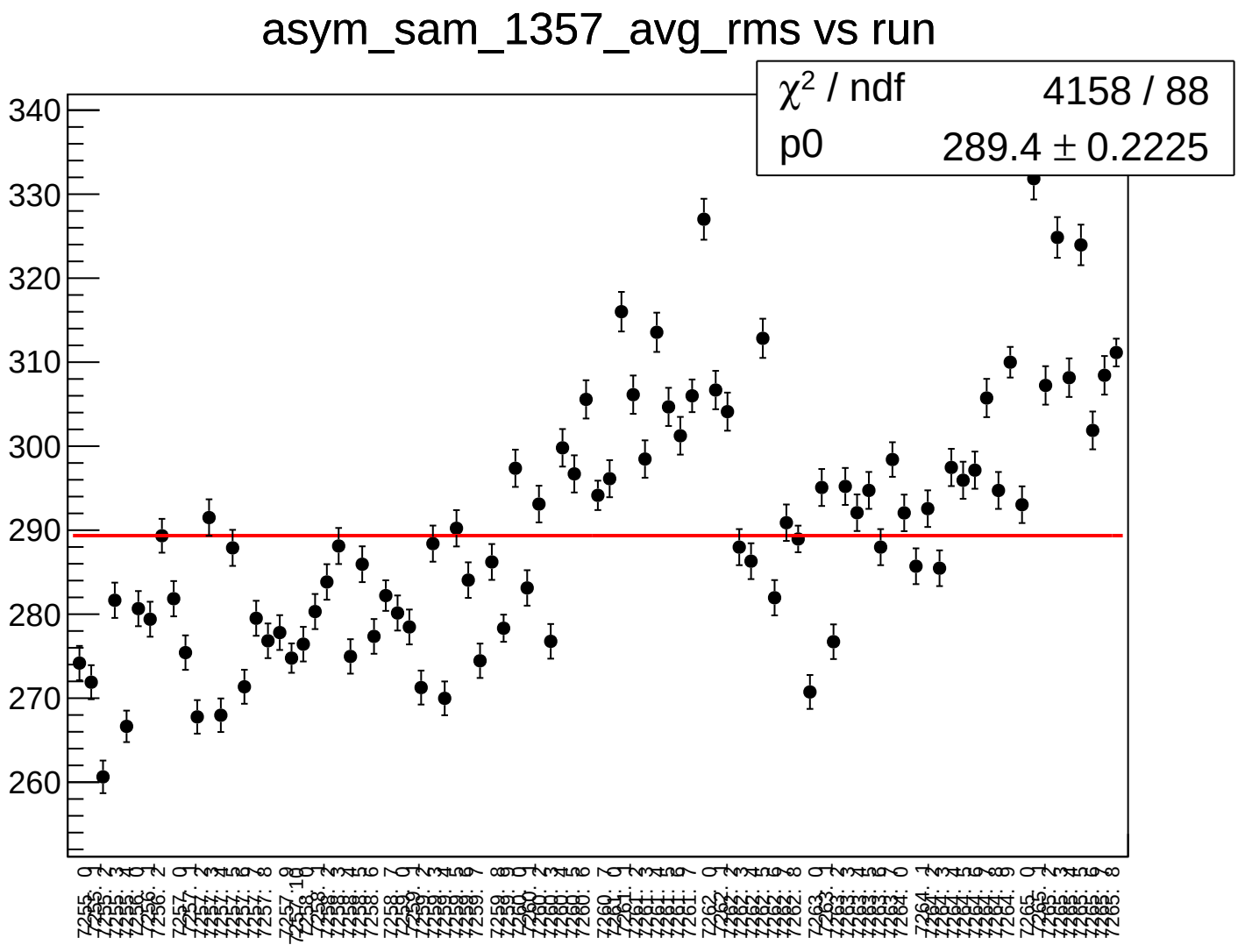

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 101.3 / 88
p0 −427.1± 306
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −148.6
Std Dev 0
3
2
1
0
−1
−2

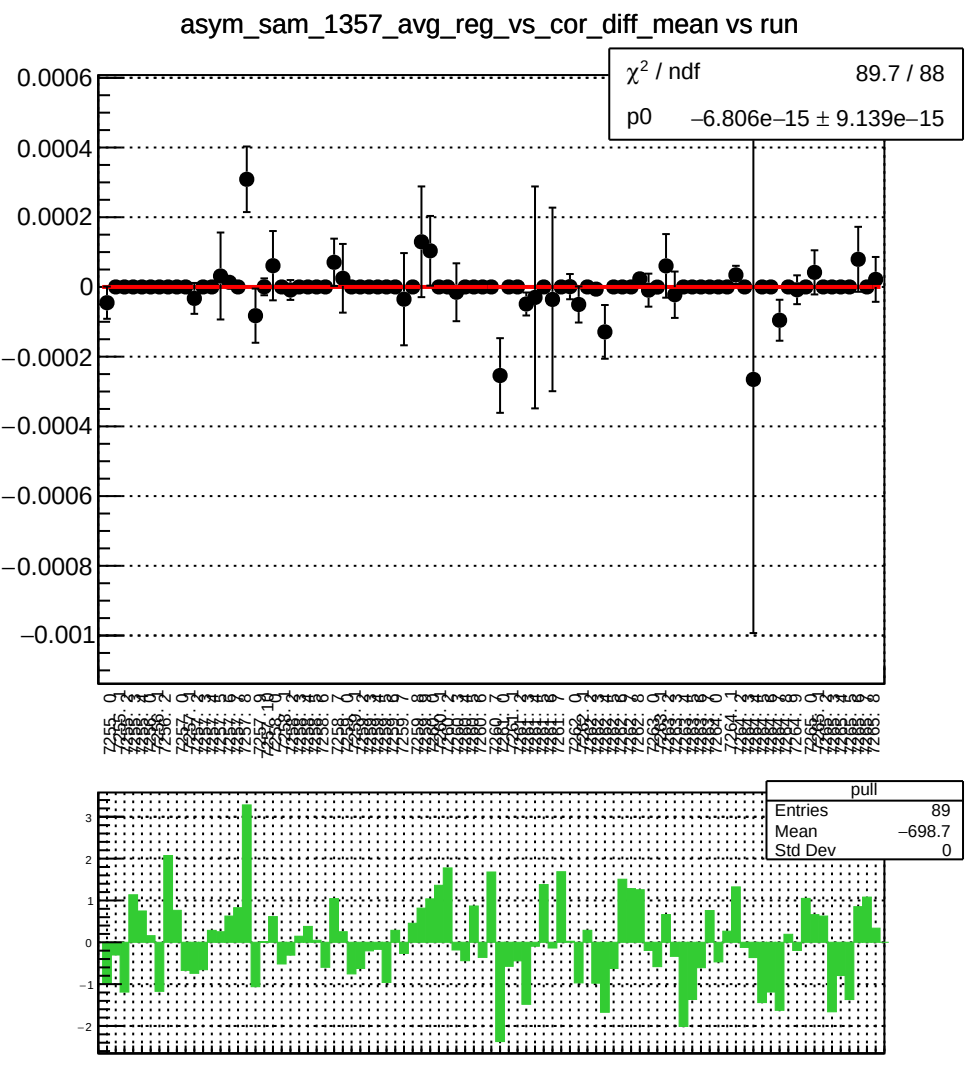

pull1D
Entries 89
Mean −0.01708
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

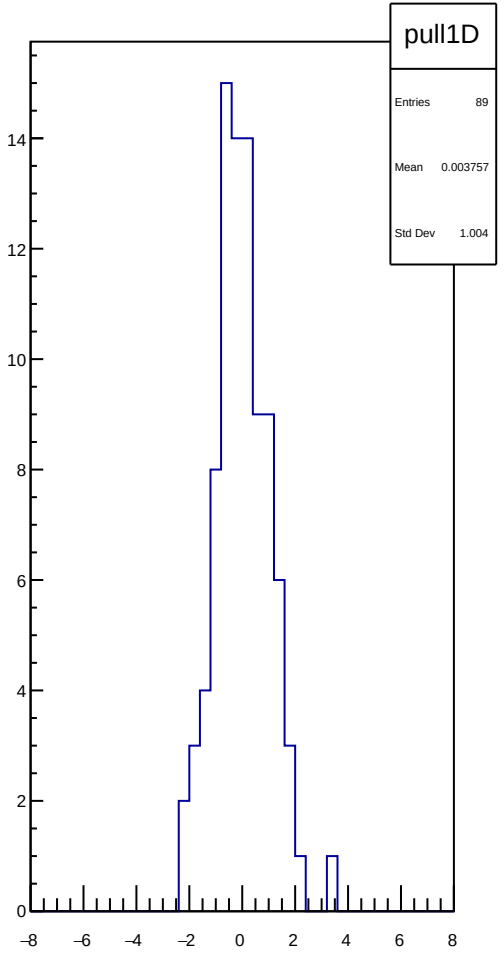

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 2174 / 88
p0 281.5 ± 0.2164
310
300
290
280
270
260

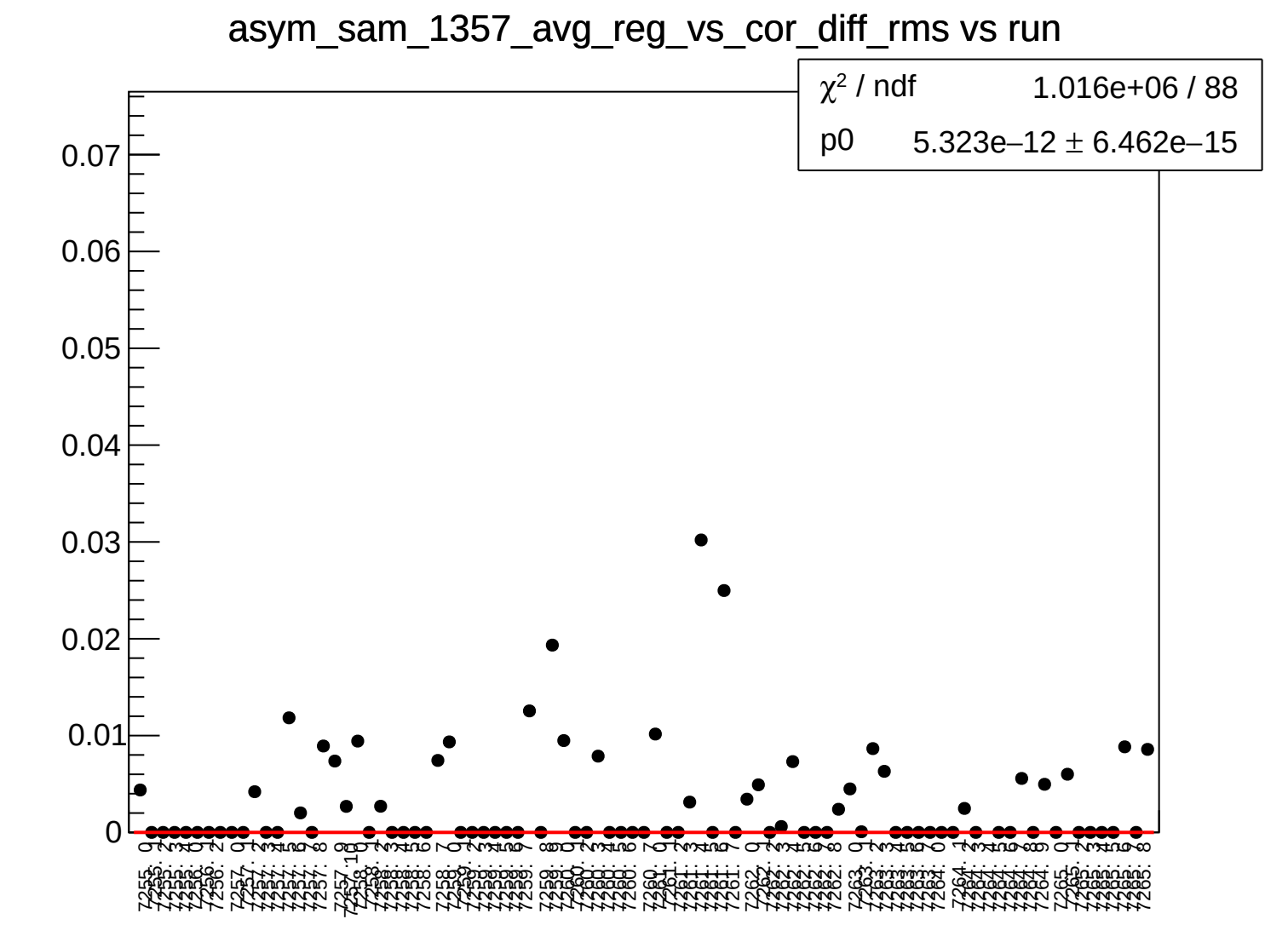

asym_sam_1357_avg_mean vs run
χ^2 / ndf 103.4 / 88
p0 462.1 ± 314.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −218.4
Std Dev 0
2
1
0
−1
−2
−3

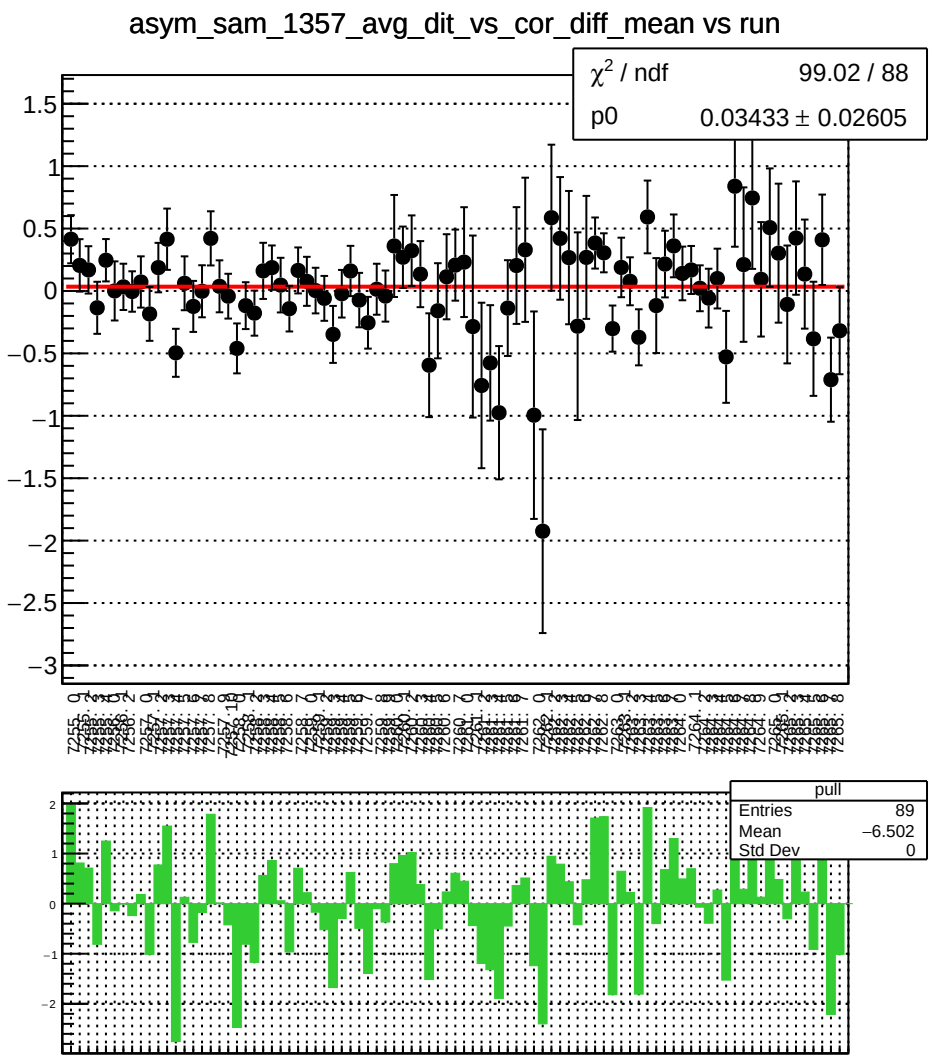

pull1D
Entries 89
Mean 0.0133
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

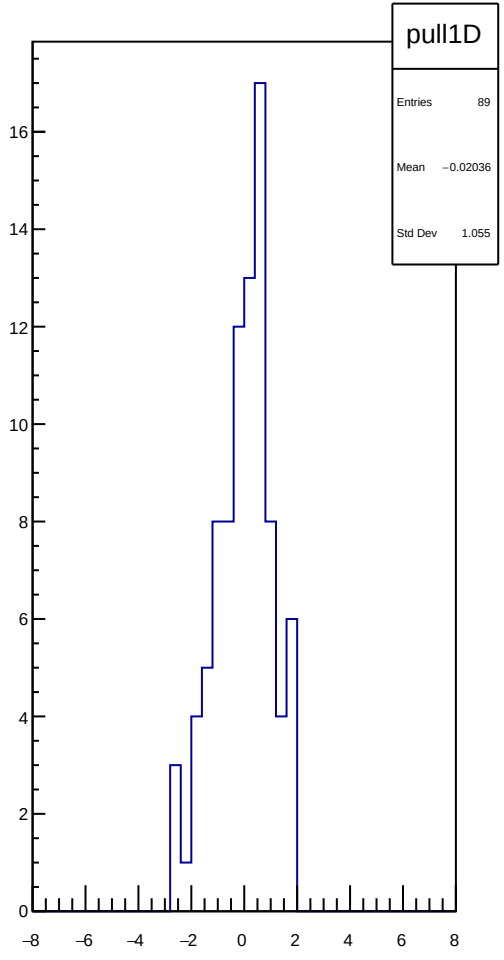

asym_sam_1357_avg_rms vs run
χ² / ndf 4158 / 88
p0 289.4 ± 0.2225
340
330
320
310
300
290
280
270
260

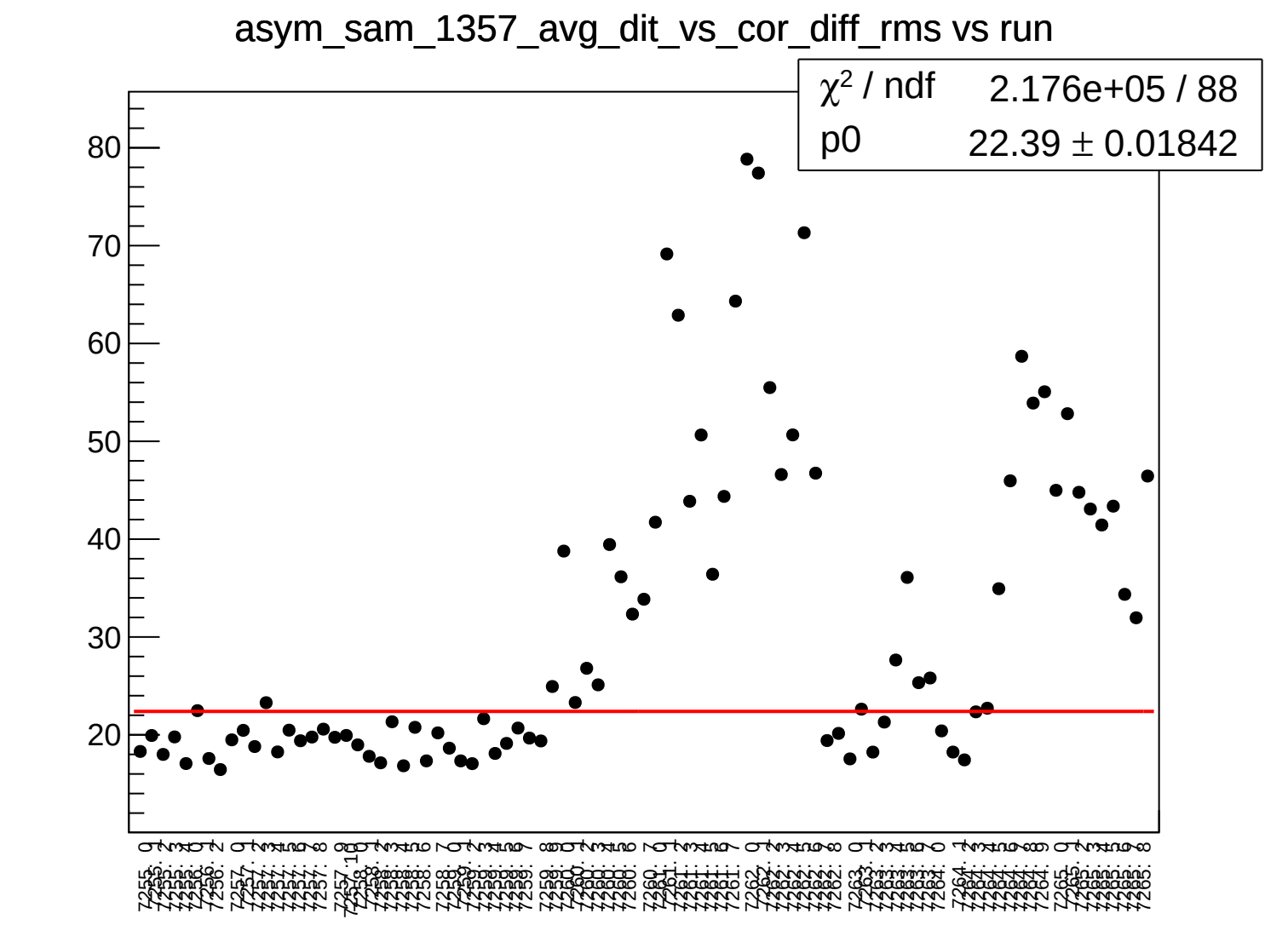

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.7 / 88
p0 −6.806e−15 ± 9.139e−15
pull
Entries 89
Mean −698.7
Std Dev 0

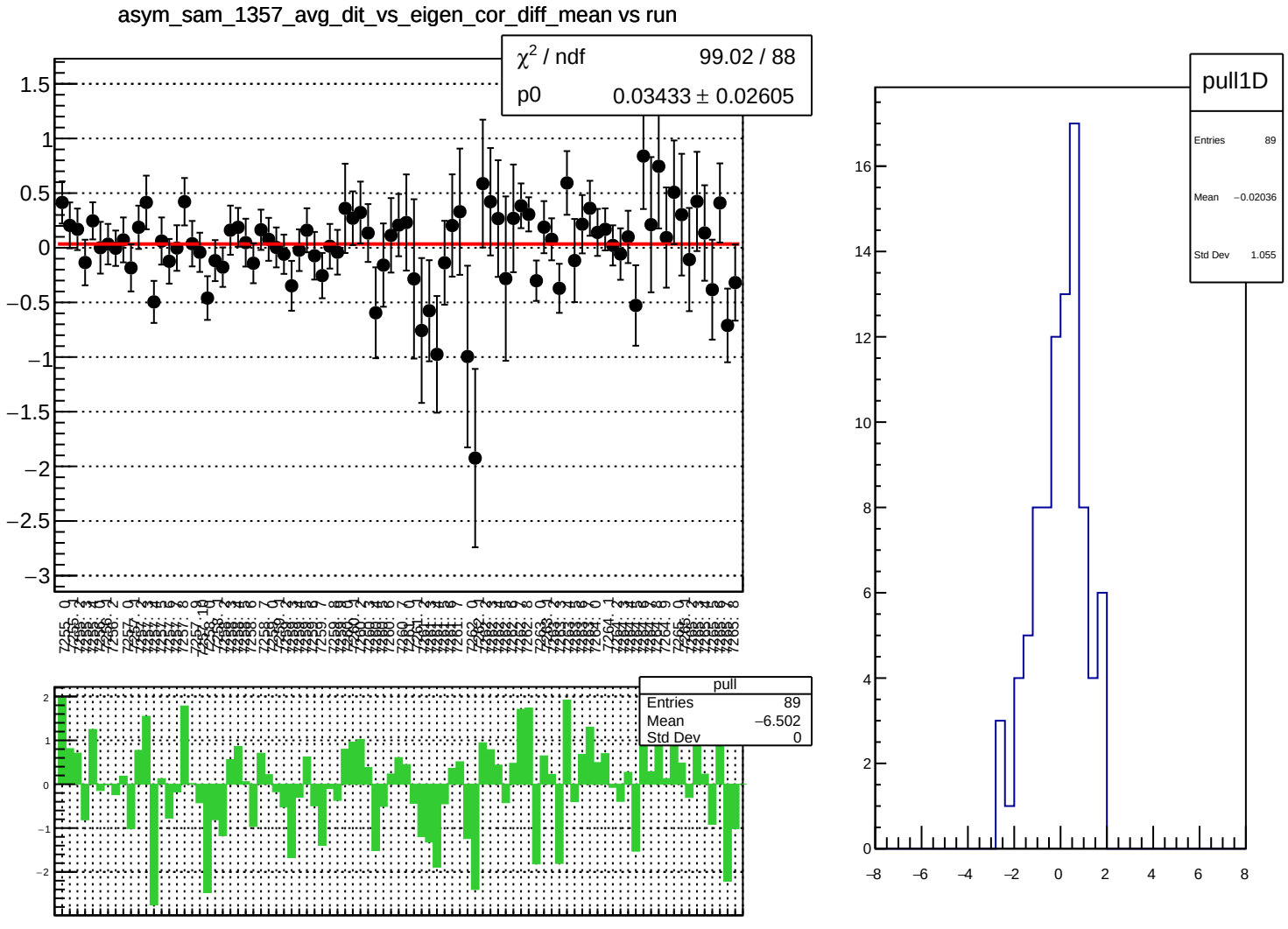

pull1D
Entries 89
Mean 0.003757
Std Dev 1.004

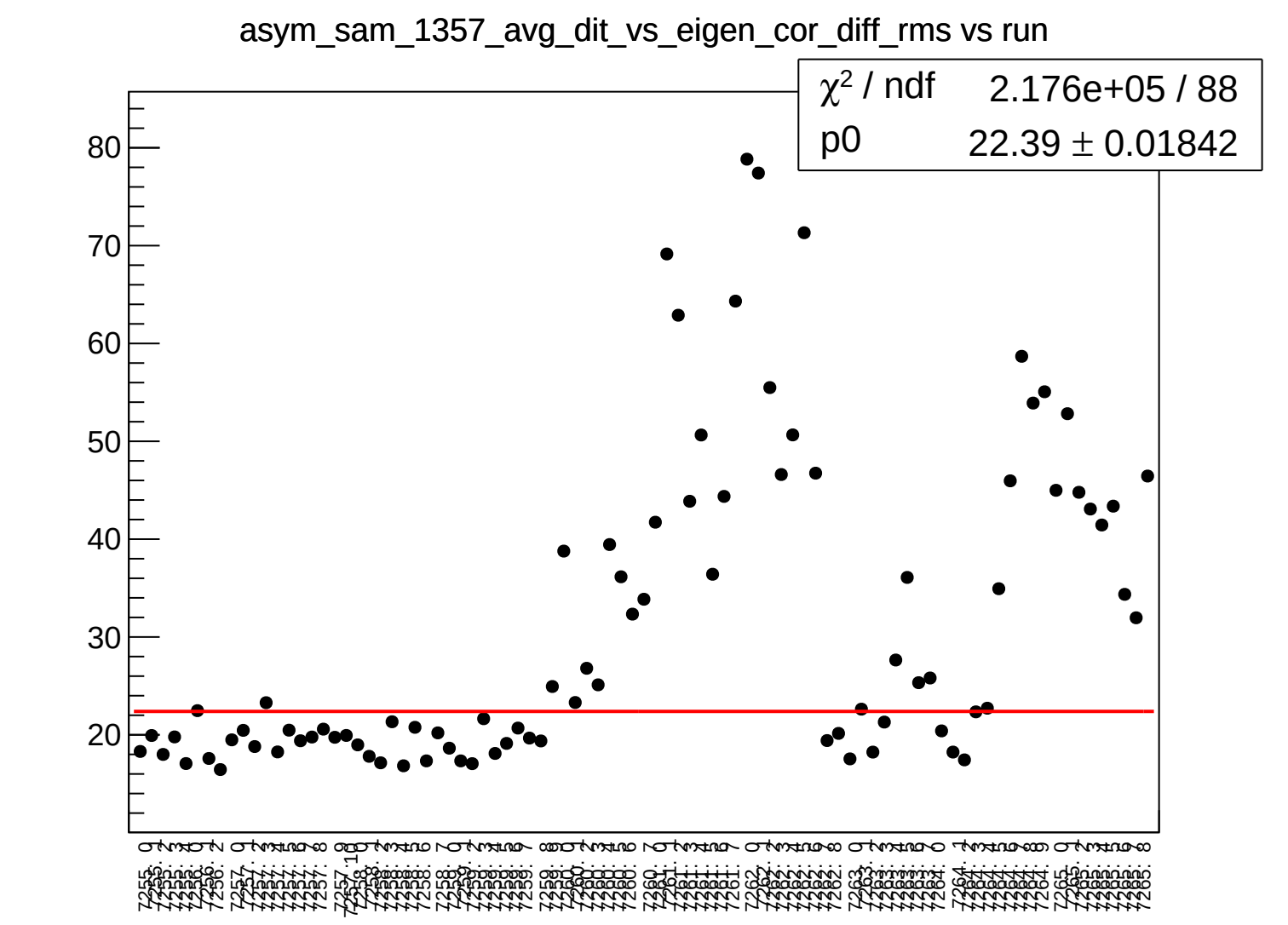

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.016e+06 / 88
p0 5.323e−12 ± 6.462e−15
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

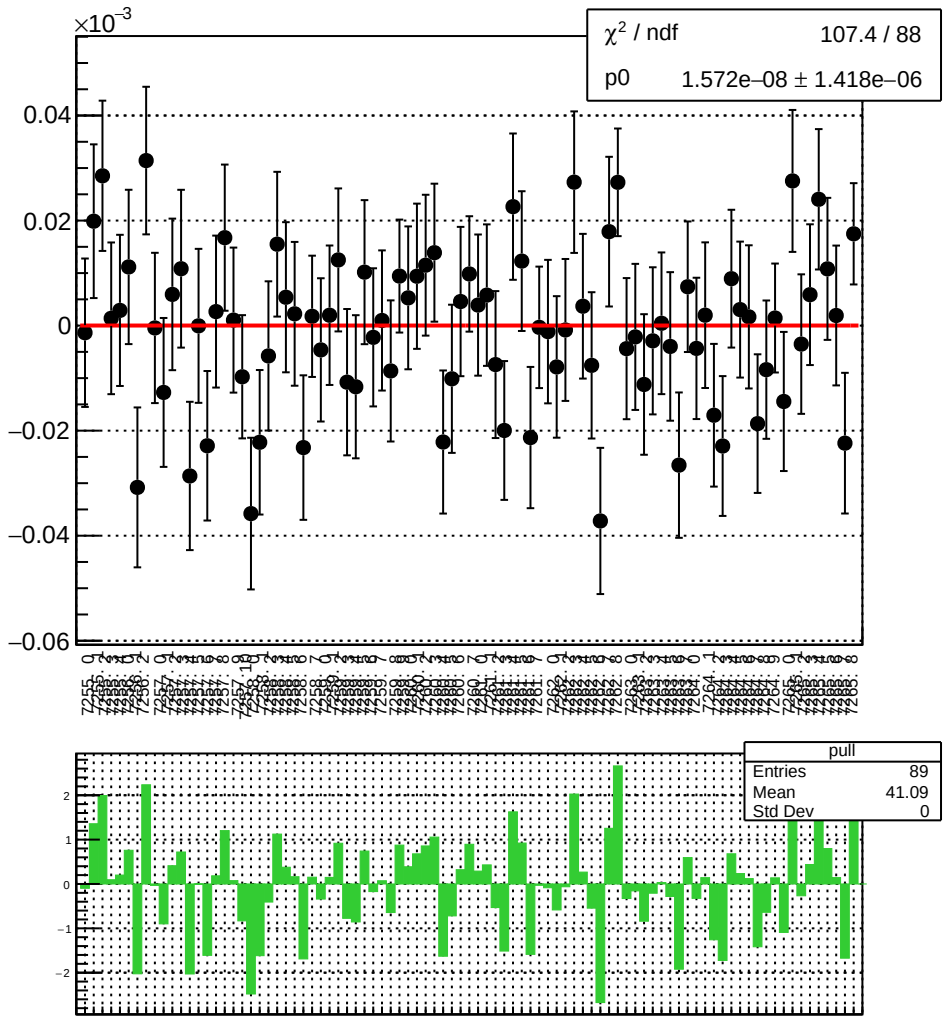

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.02 / 88
p0 0.03433 ± 0.02605
pull
Entries 89
Mean −6.502
Std Dev 0

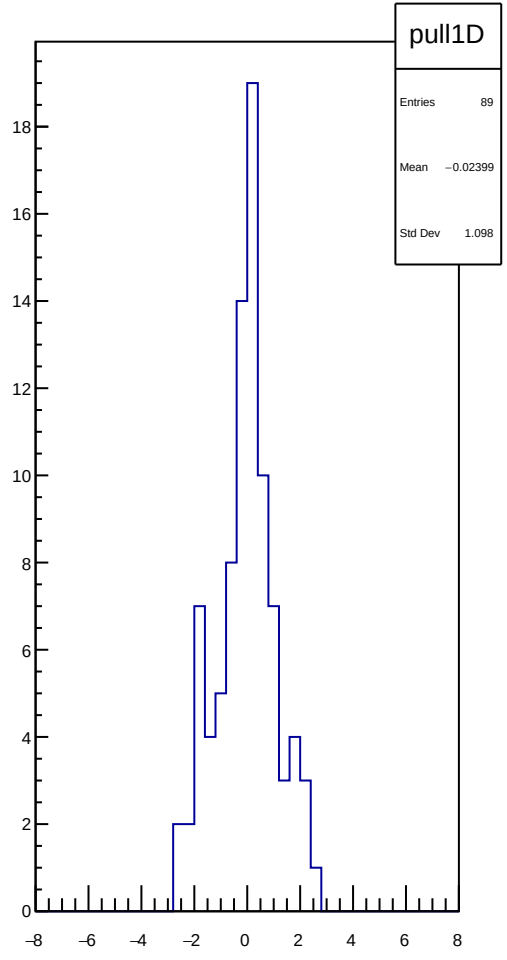

pull1D
Entries 89
Mean −0.02036
Std Dev 1.055

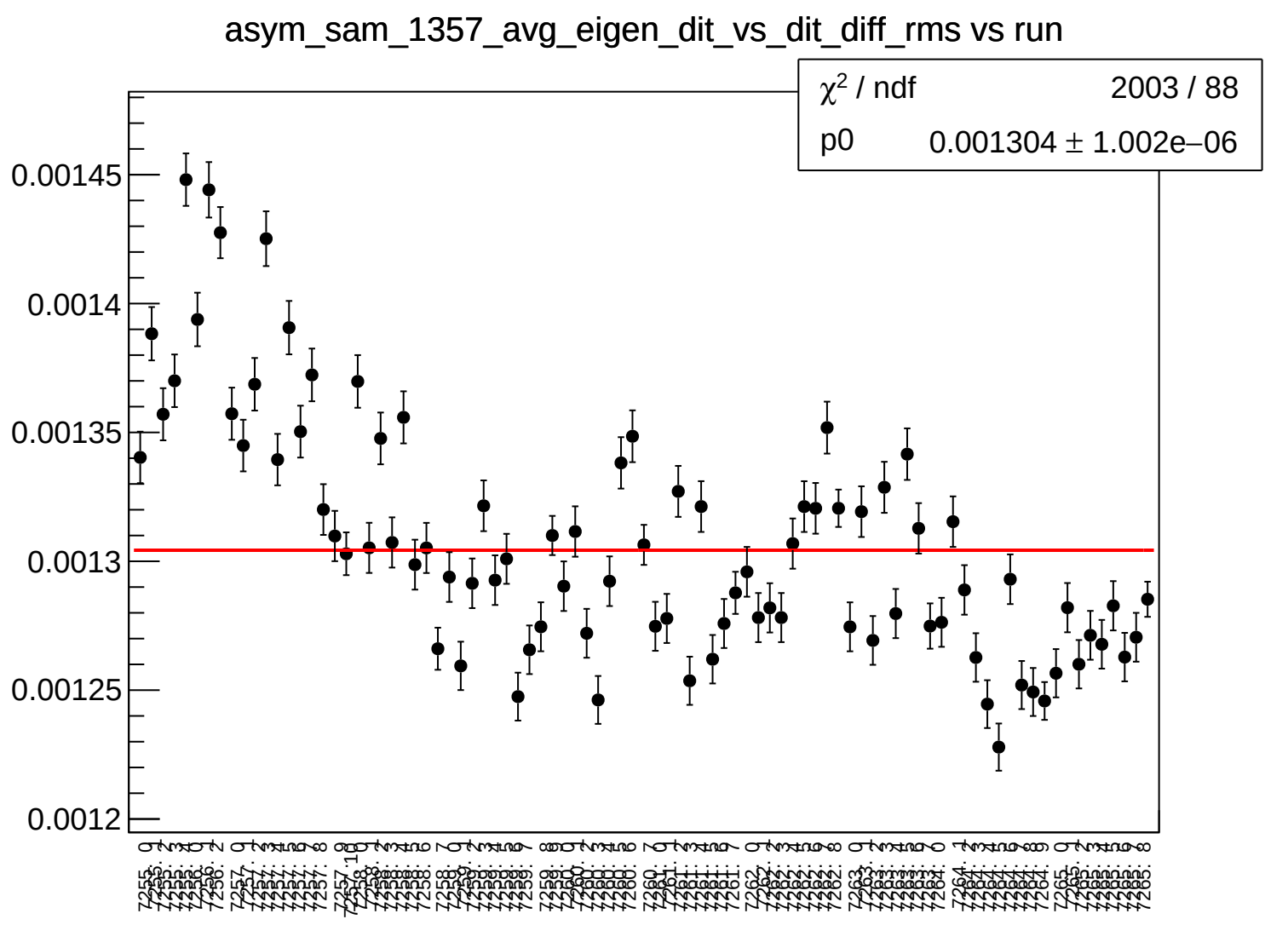

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.176e+05 / 88
p0 22.39 ± 0.01842
80
70
60
50
40
30
20

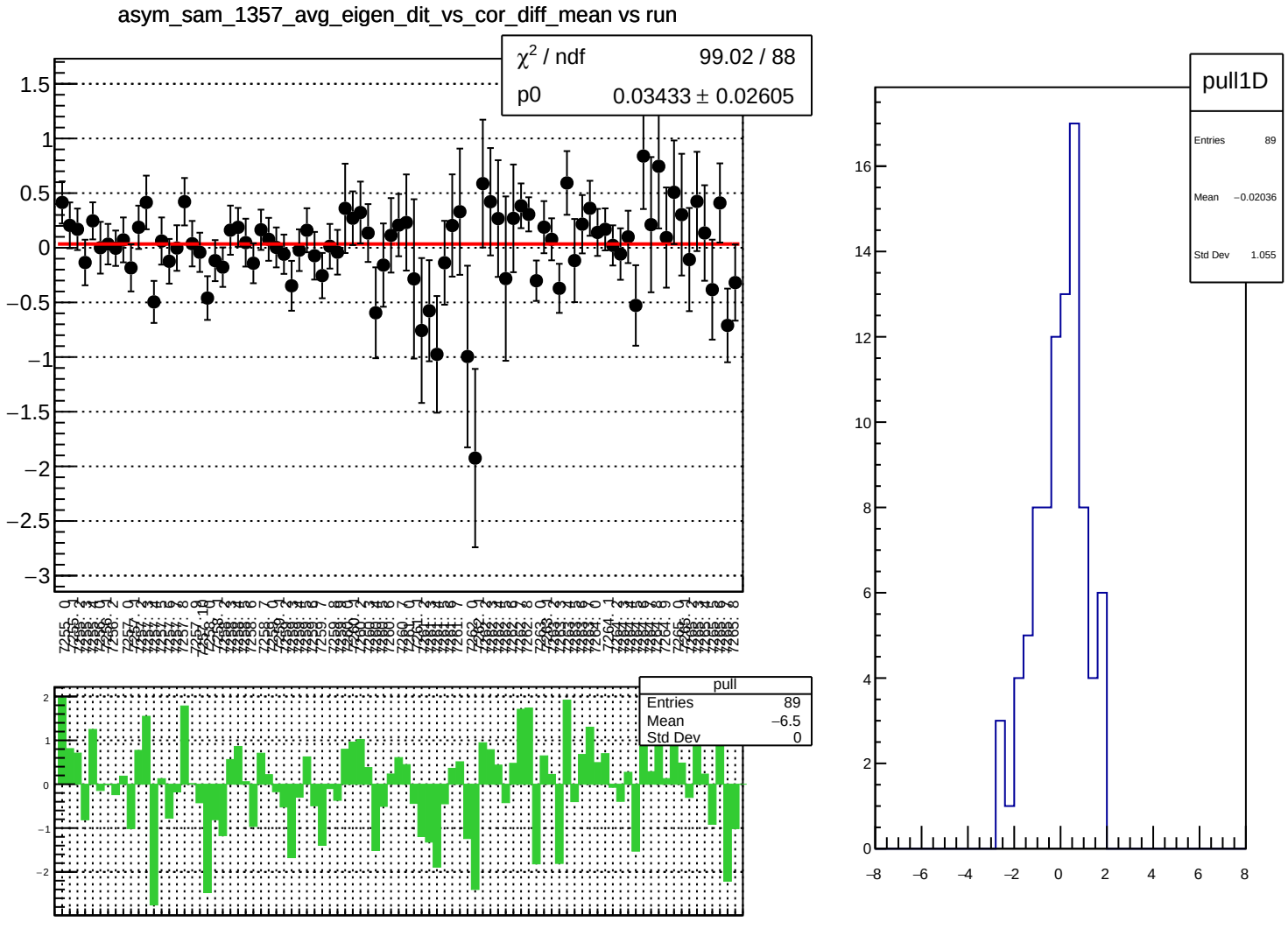

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.02 / 88
p0 0.03433 ± 0.02605
pull
Entries 89
Mean −6.502
Std Dev 0
pull1D
Entries 89
Mean −0.02036
Std Dev 1.055

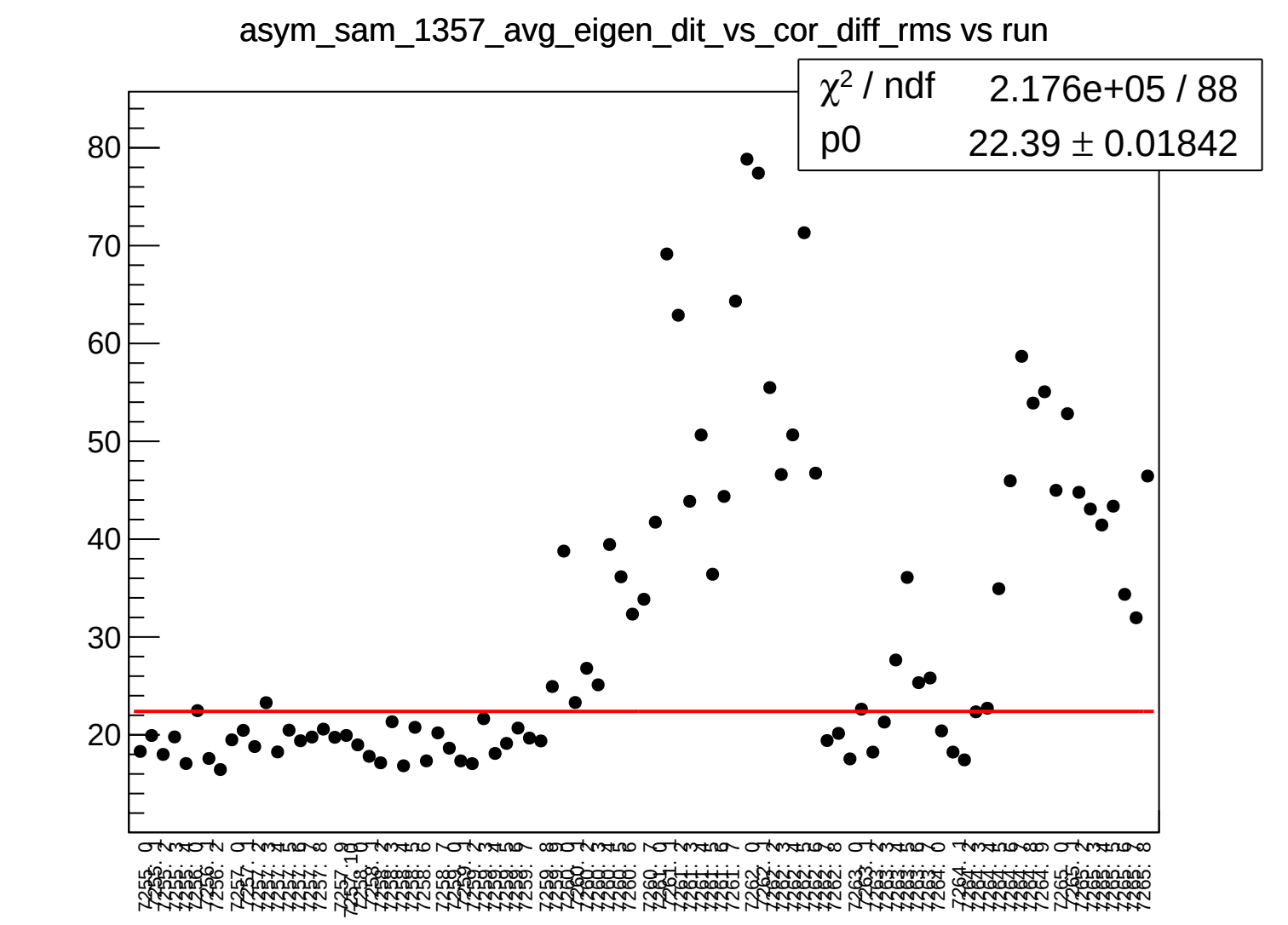

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.176e+05 / 88
p0 22.39 ± 0.01842
80
70
60
50
40
30
20

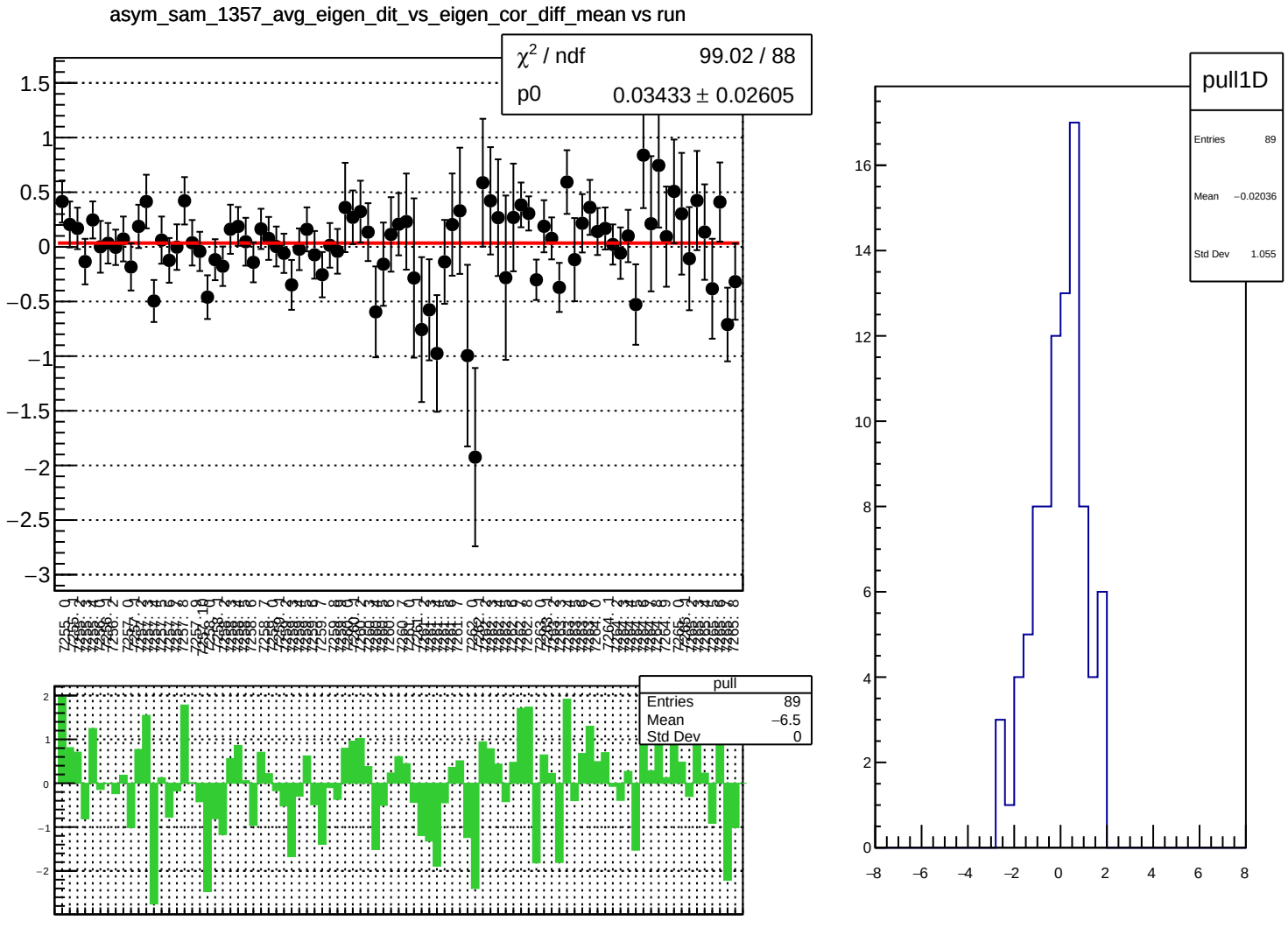

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.4 / 88
p0 1.572e−08 ± 1.418e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 41.09
Std Dev 0
2
1
0
−1
−2

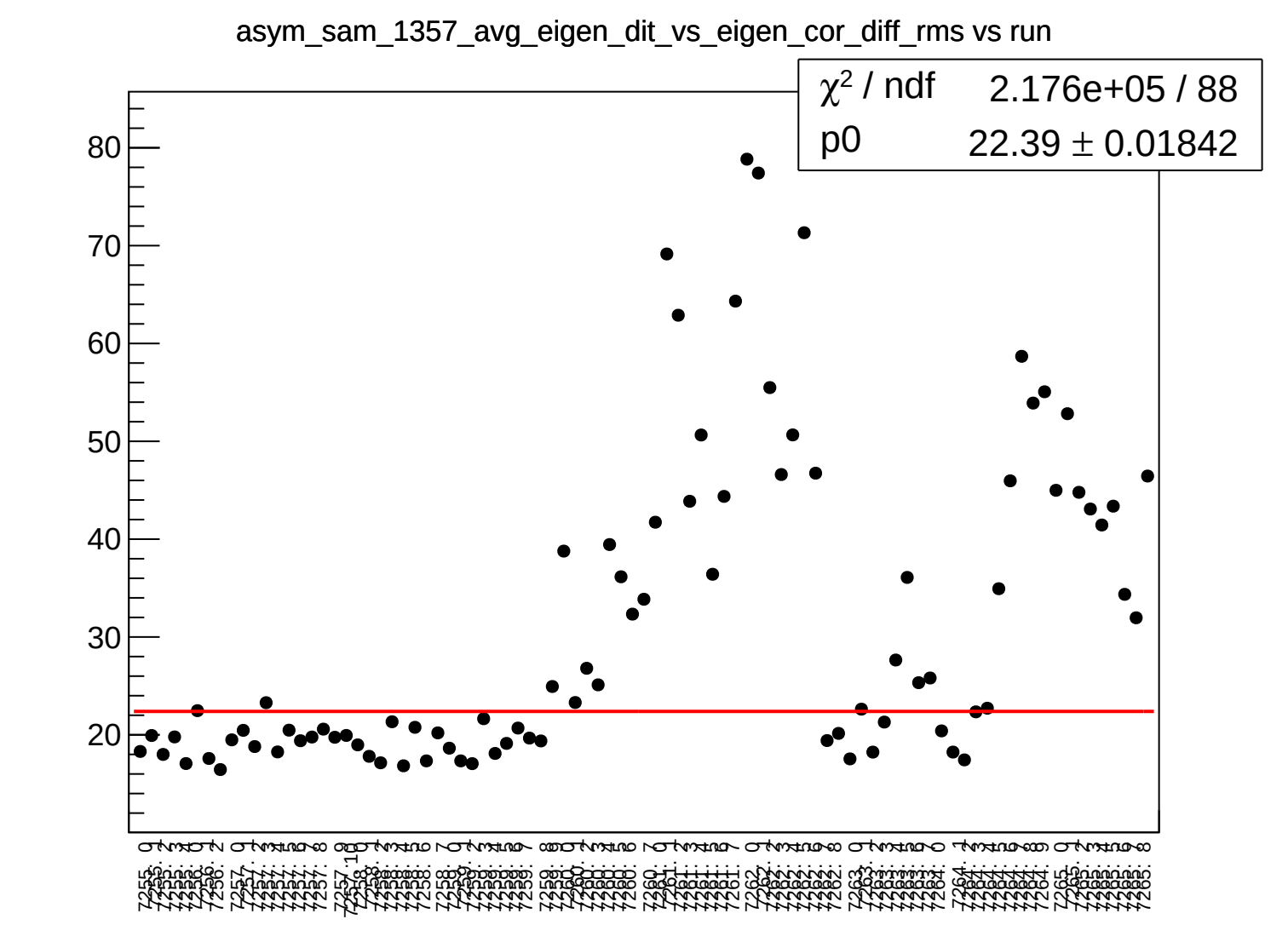

pull1D
Entries 89
Mean −0.02399
Std Dev 1.098
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

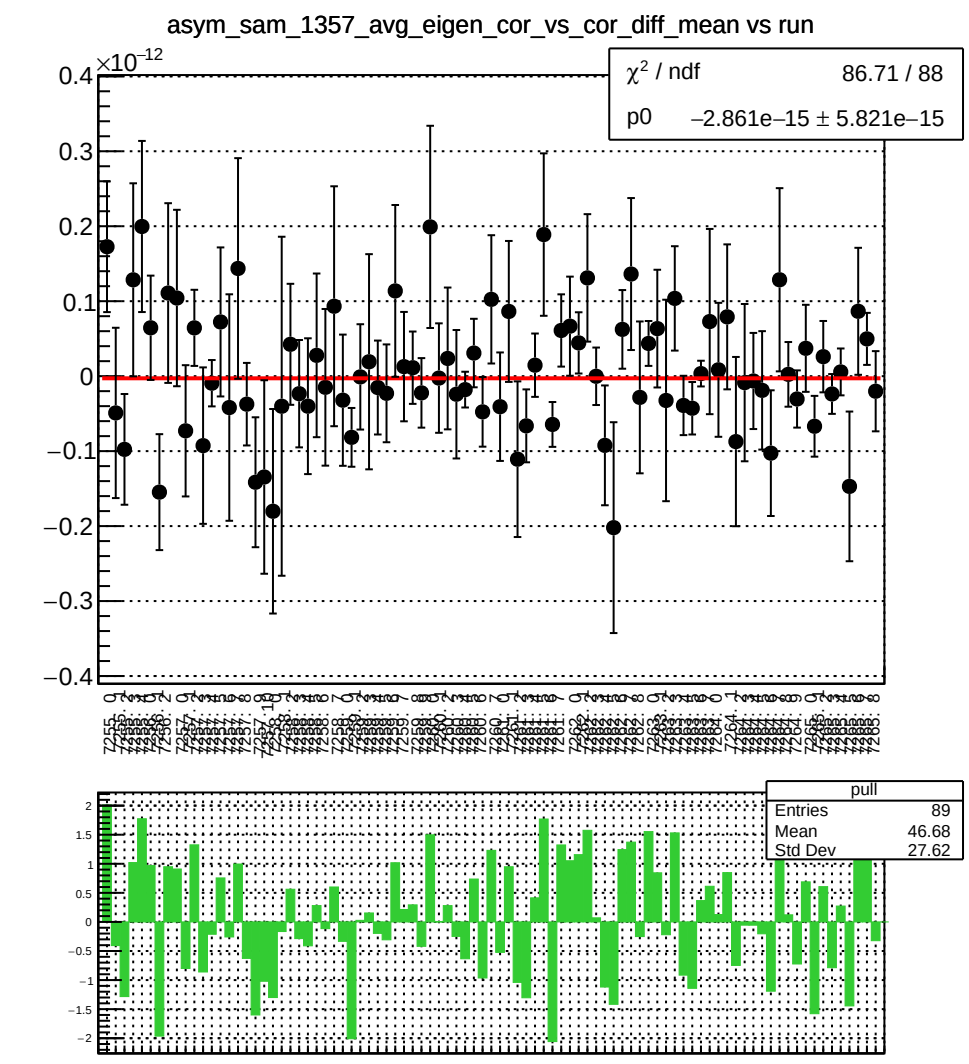

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2003 / 88
p0 0.001304 ± 1.002e−06
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012

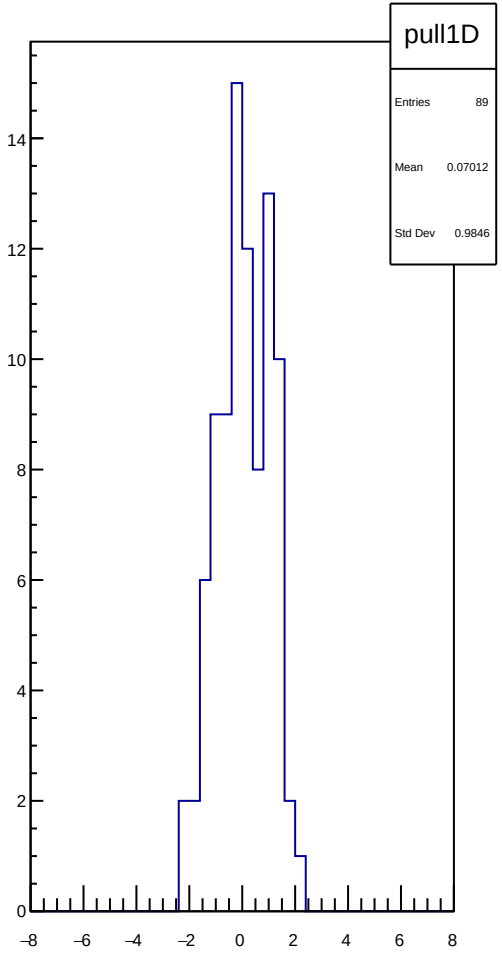

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.02 / 88
p0 0.03433 ± 0.02605
pull
Entries 89
Mean −6.5
Std Dev 0
pull1D
Entries 89
Mean −0.02036
Std Dev 1.055

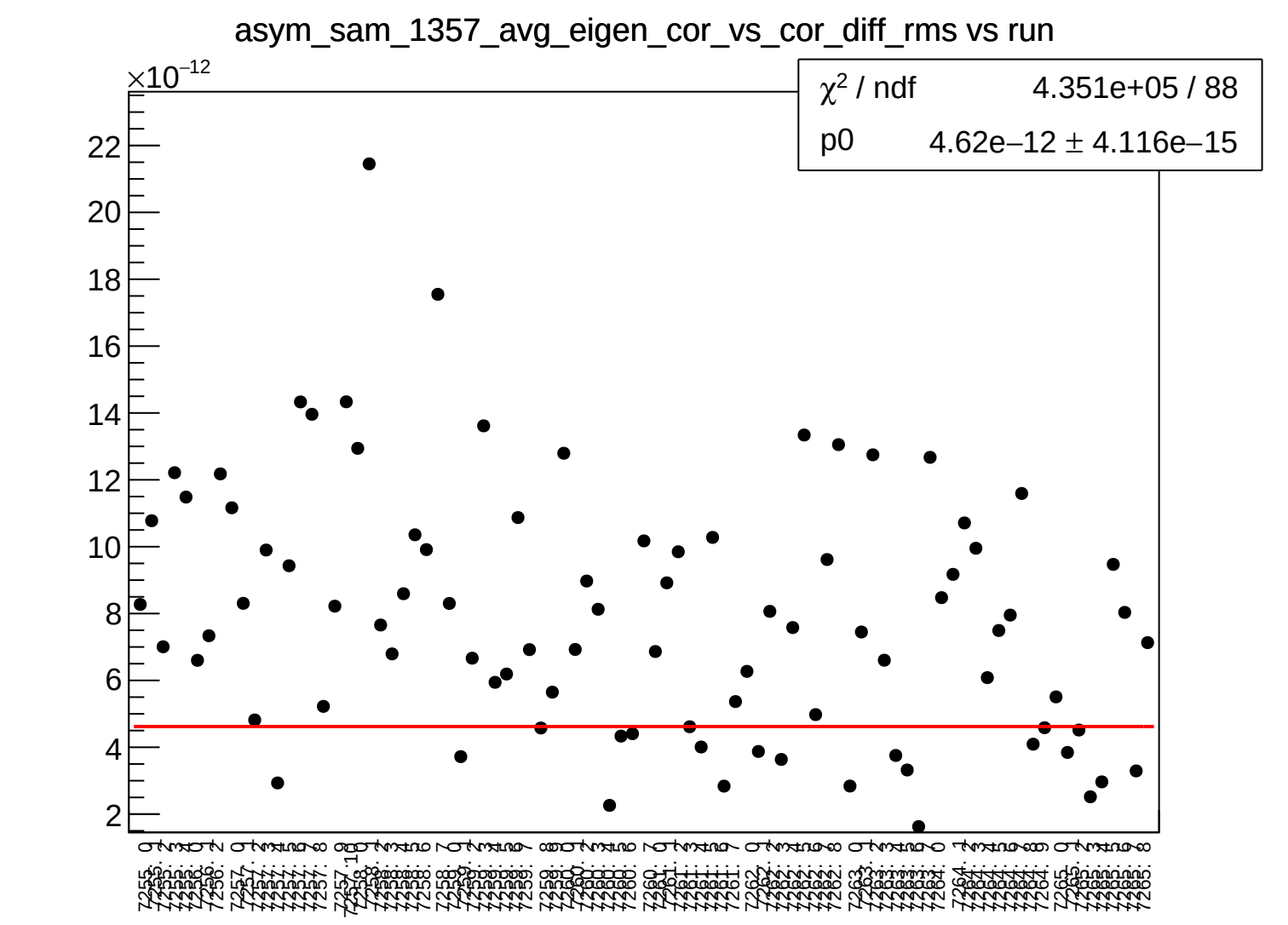

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.176e+05 / 88
p0 22.39 ± 0.01842
80
70
60
50
40
30
20

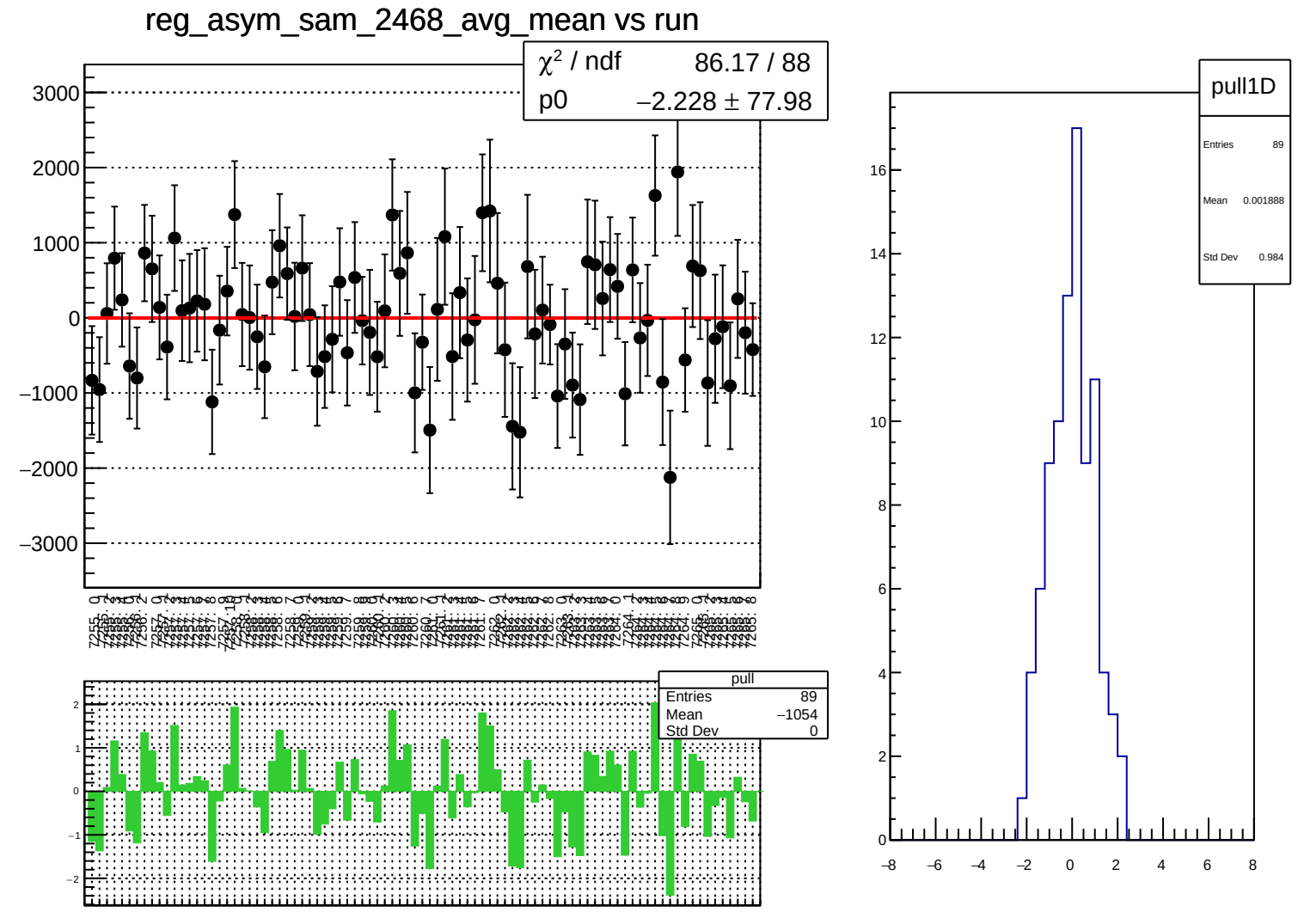

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.02 / 88
p0 0.03433 ± 0.02605
pull
Entries 89
Mean −6.5
Std Dev 0
pull1D
Entries 89
Mean −0.02036
Std Dev 1.055

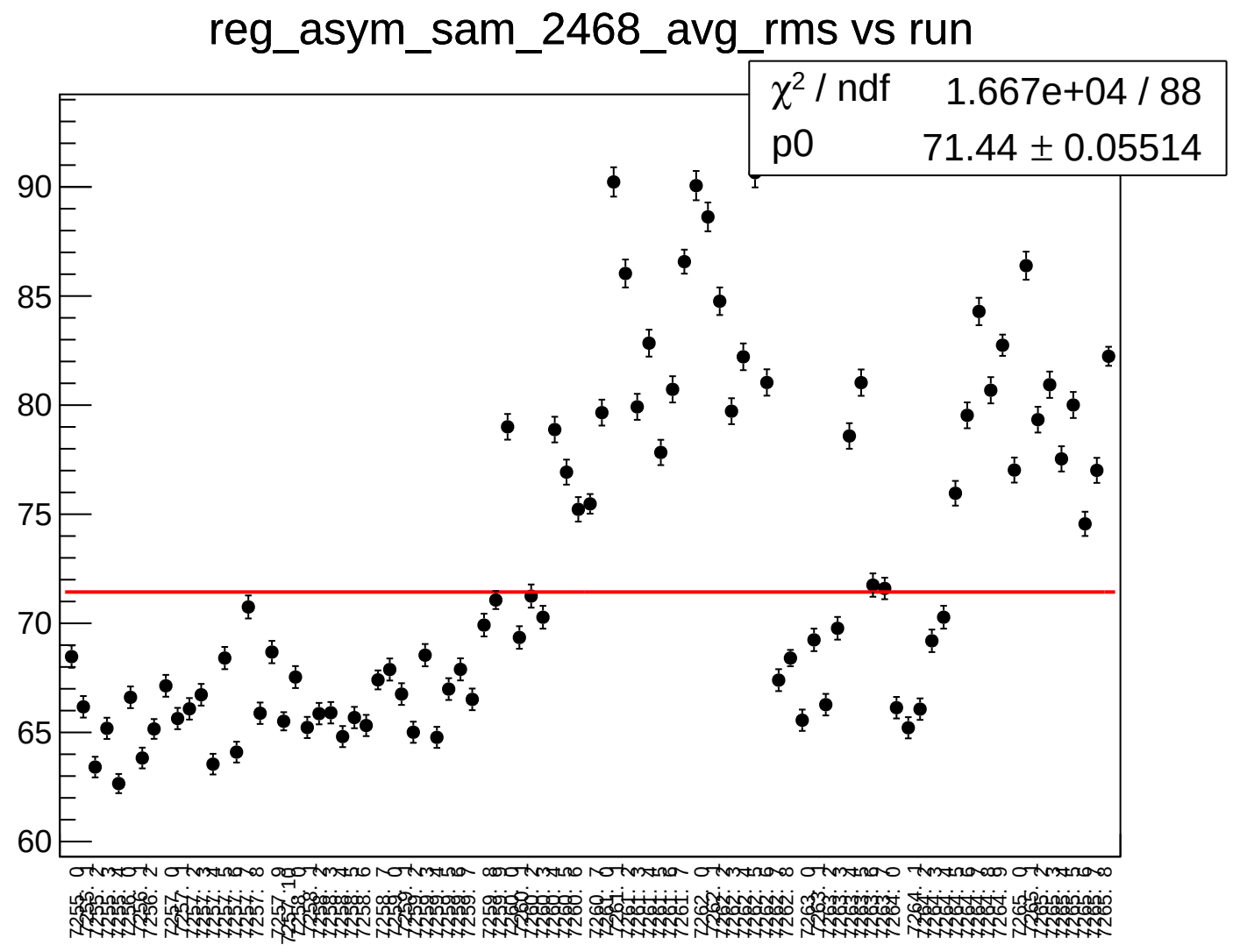

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.176e+05 / 88
p0 22.39 ± 0.01842
80
70
60
50
40
30
20

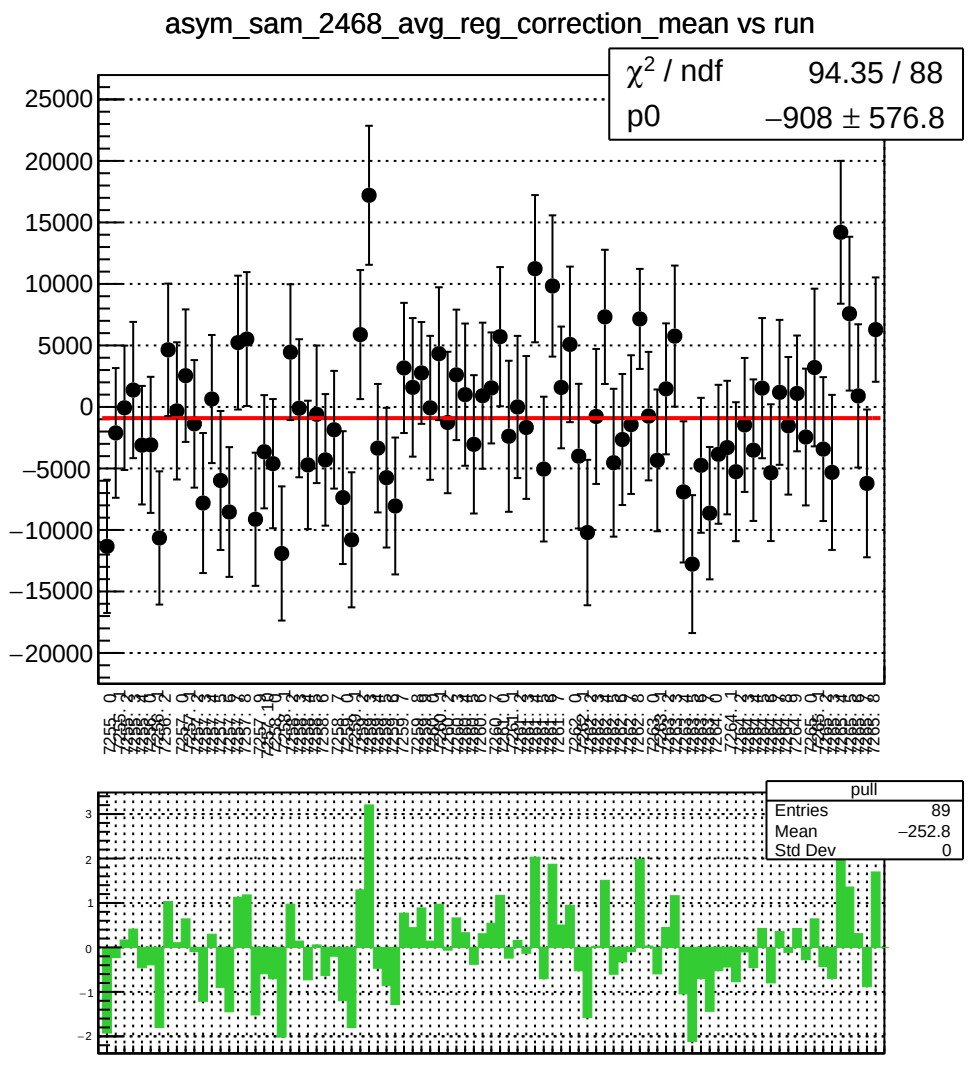

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.71 / 88
p0 −2.861e−15 ± 5.821e−15
pull
Entries 89
Mean 46.68
Std Dev 27.62

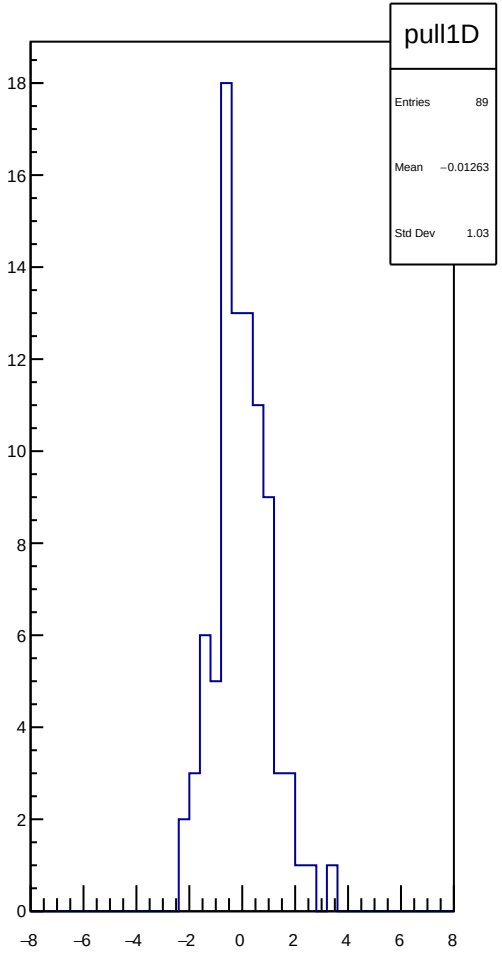

pull1D
Entries 89
Mean 0.07012
Std Dev 0.9846

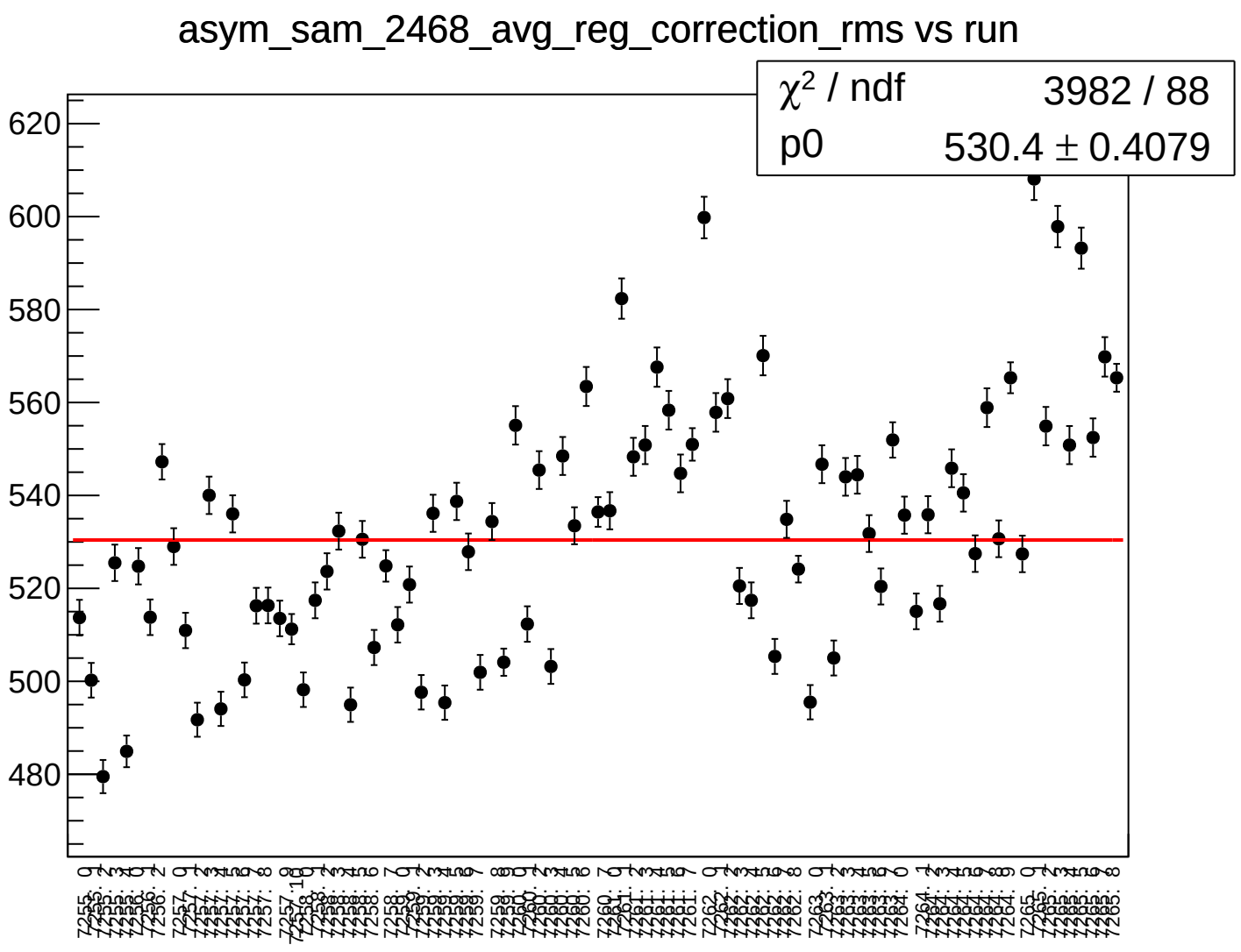

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.351e+05 / 88
p0 4.62e−12 ± 4.116e−15
22
20
18
16
14
12
10
8
6
4
2

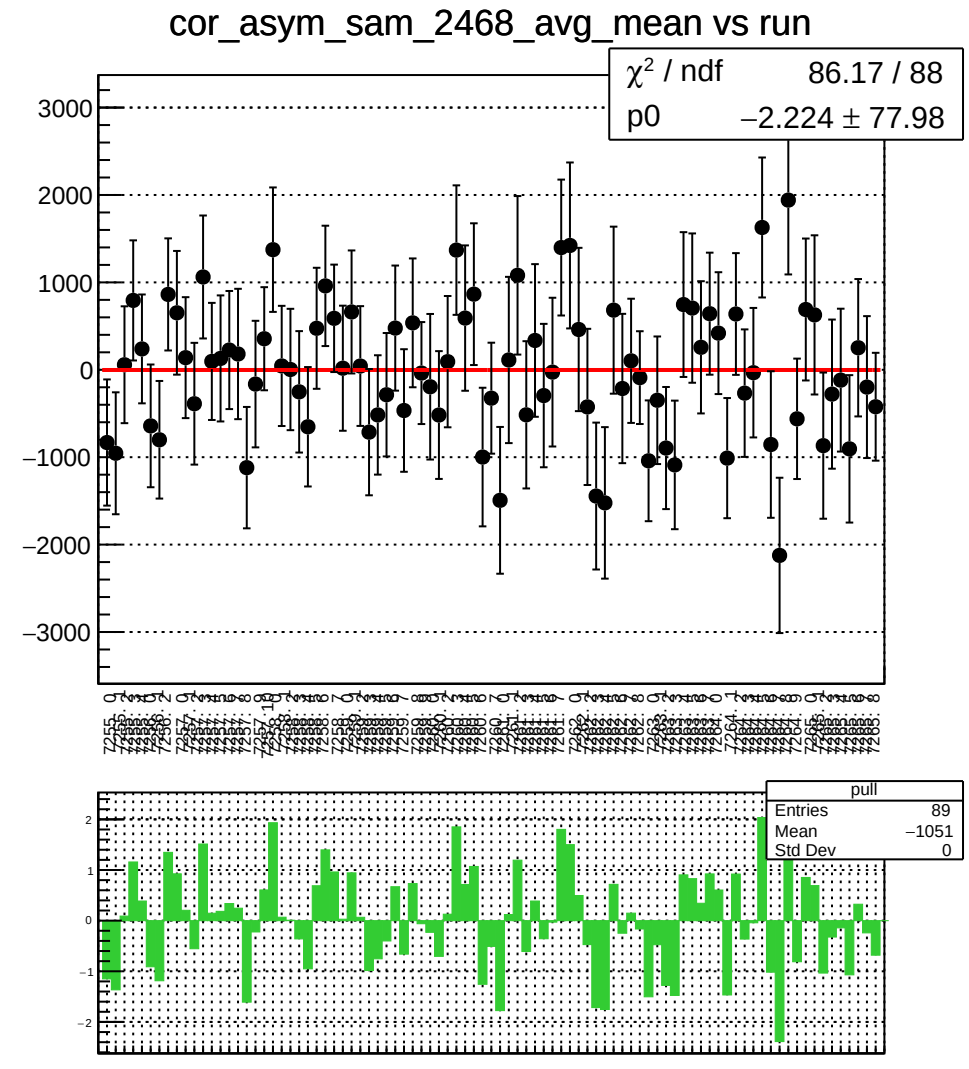

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 86.17 / 88
p0 −2.228 ± 77.98
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −1054
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.001888
Std Dev 0.984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

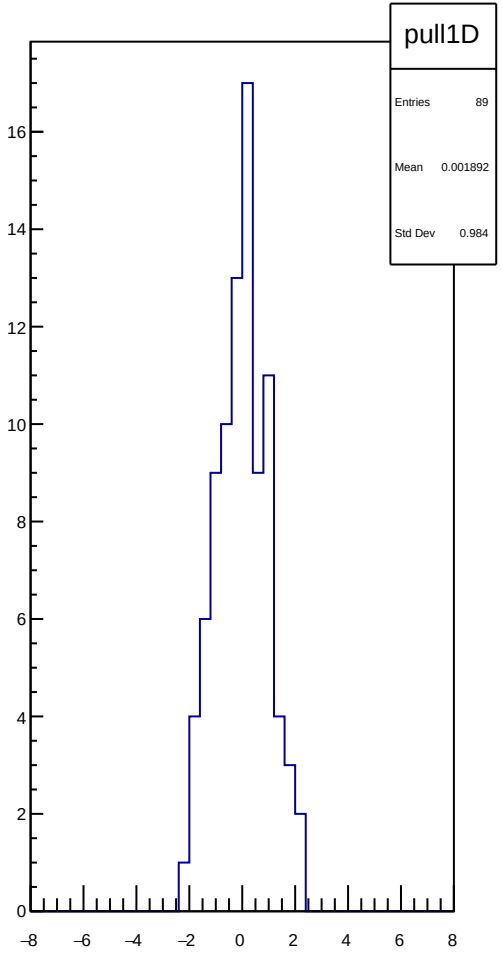

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.667e+04 / 88
p0 71.44 ± 0.05514
90
85
80
75
70
65
60

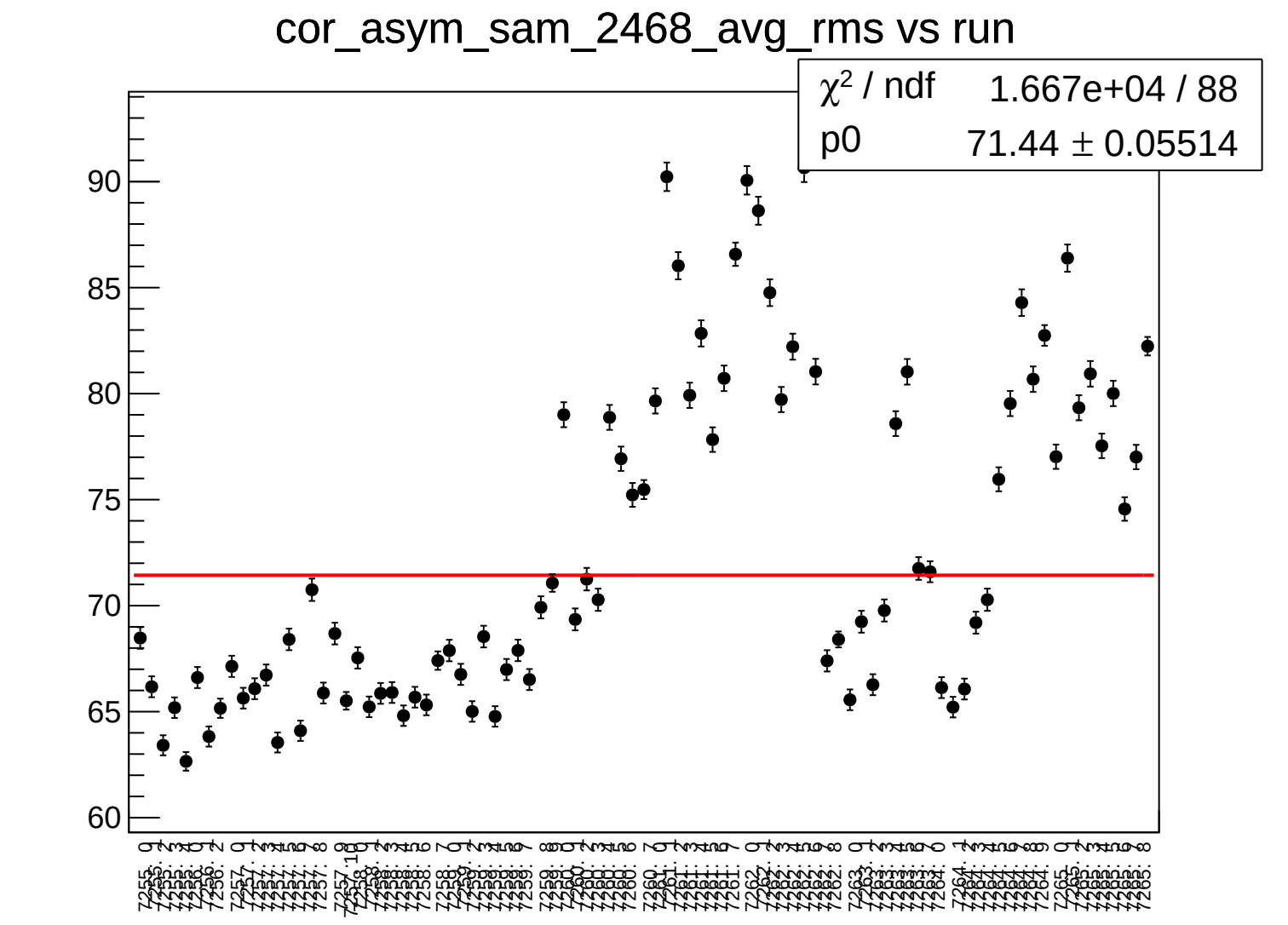

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 94.35 / 88
p0 −908 ± 576.8
pull
Entries 89
Mean −252.8
Std Dev 0

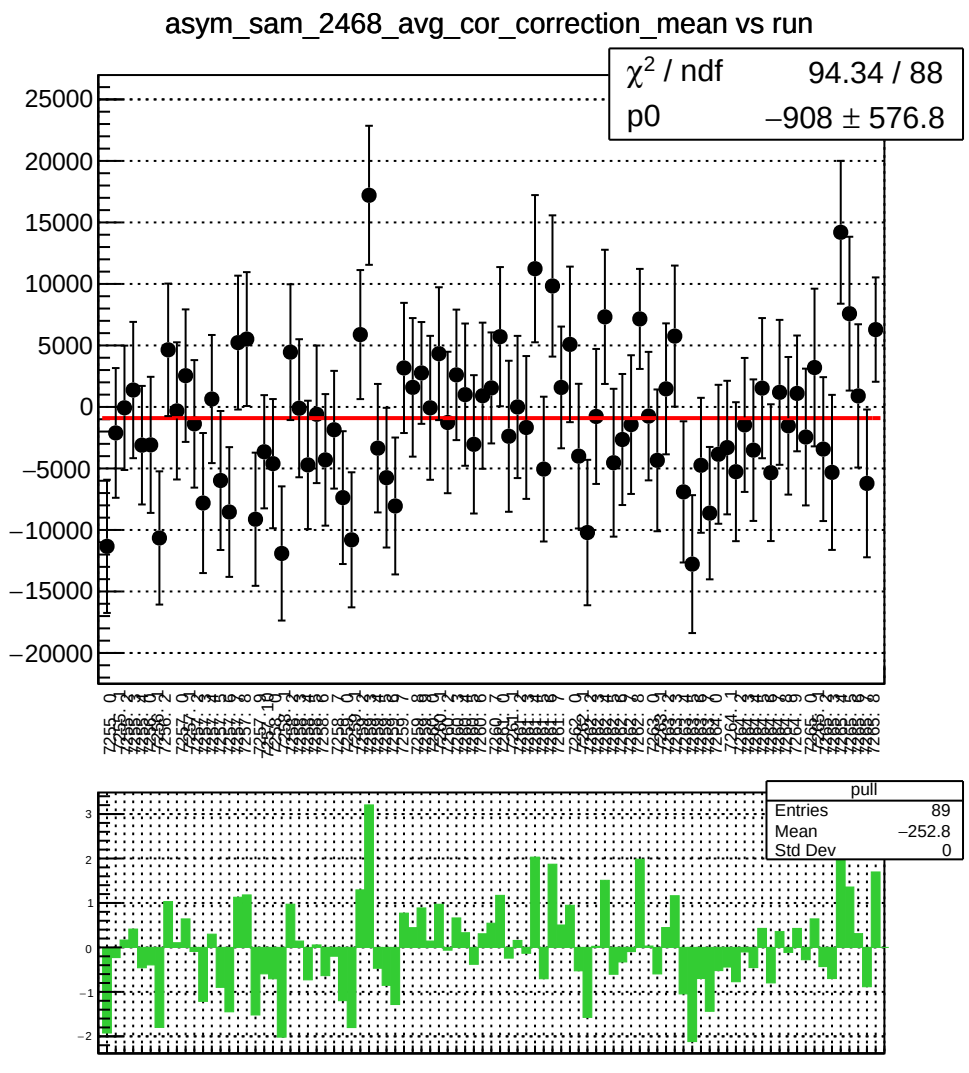

pull1D
Entries 89
Mean −0.01263
Std Dev 1.03

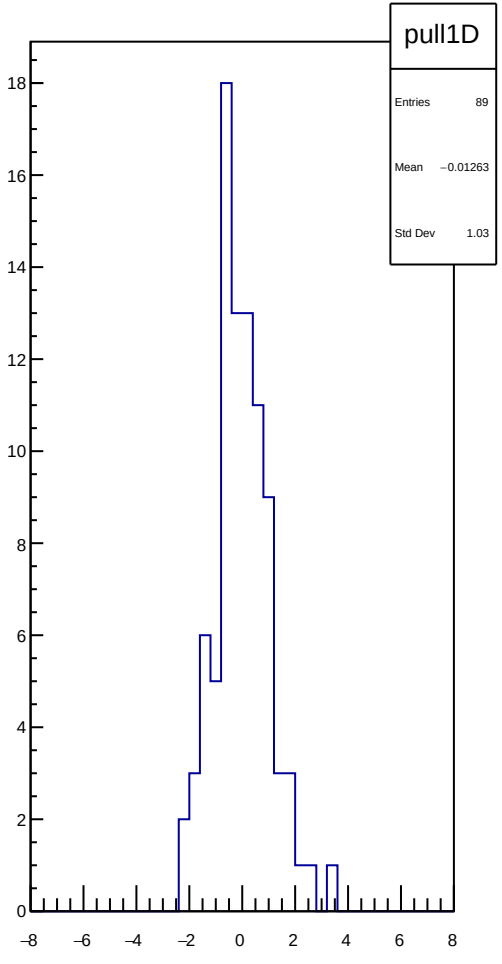

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 3982 / 88
p0 530.4 ± 0.4079
620
600
580
560
540
520
500
480

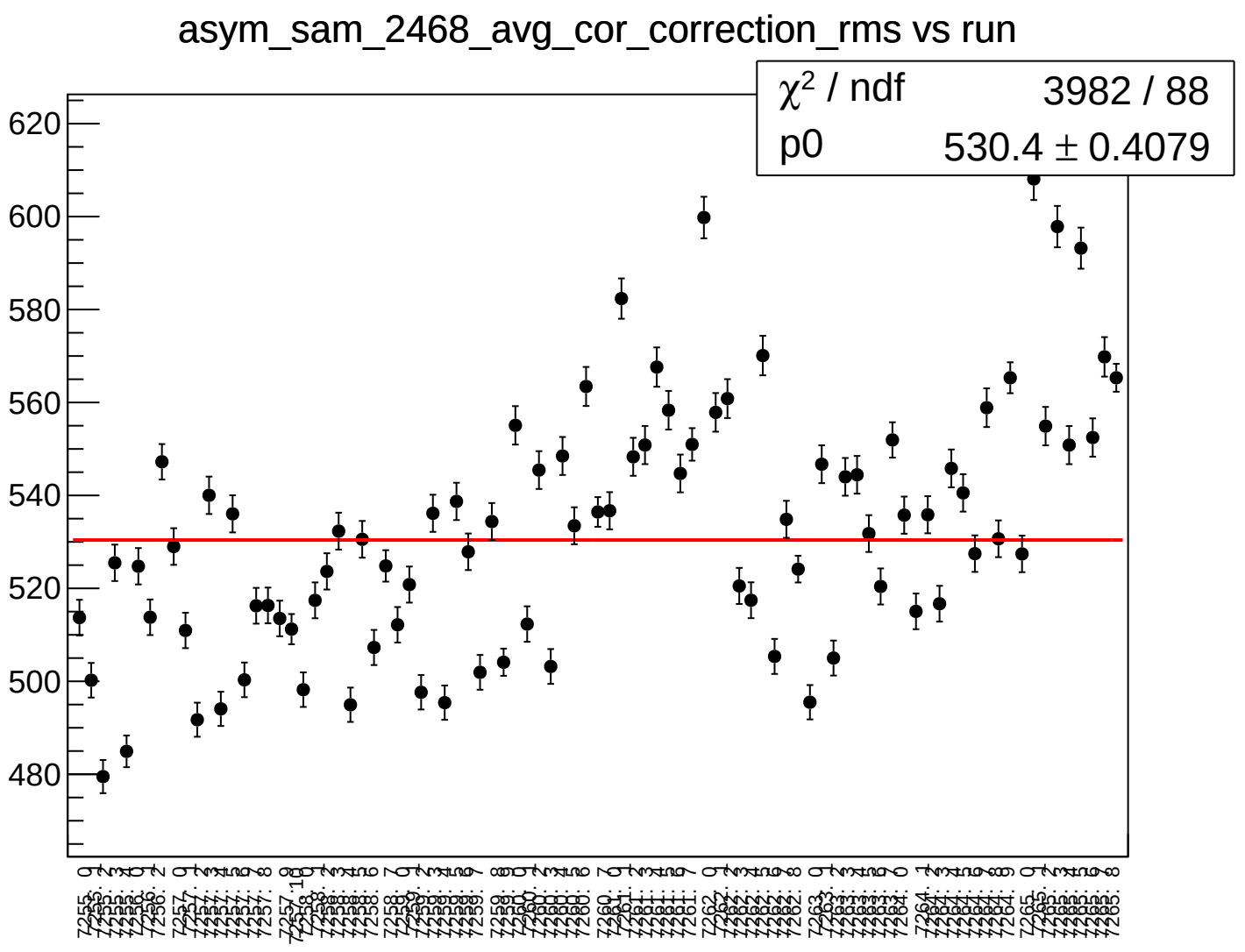

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 86.17 / 88
p0 −2.224 ± 77.98
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −1051
Std Dev 0
2
1
0
−1
−2

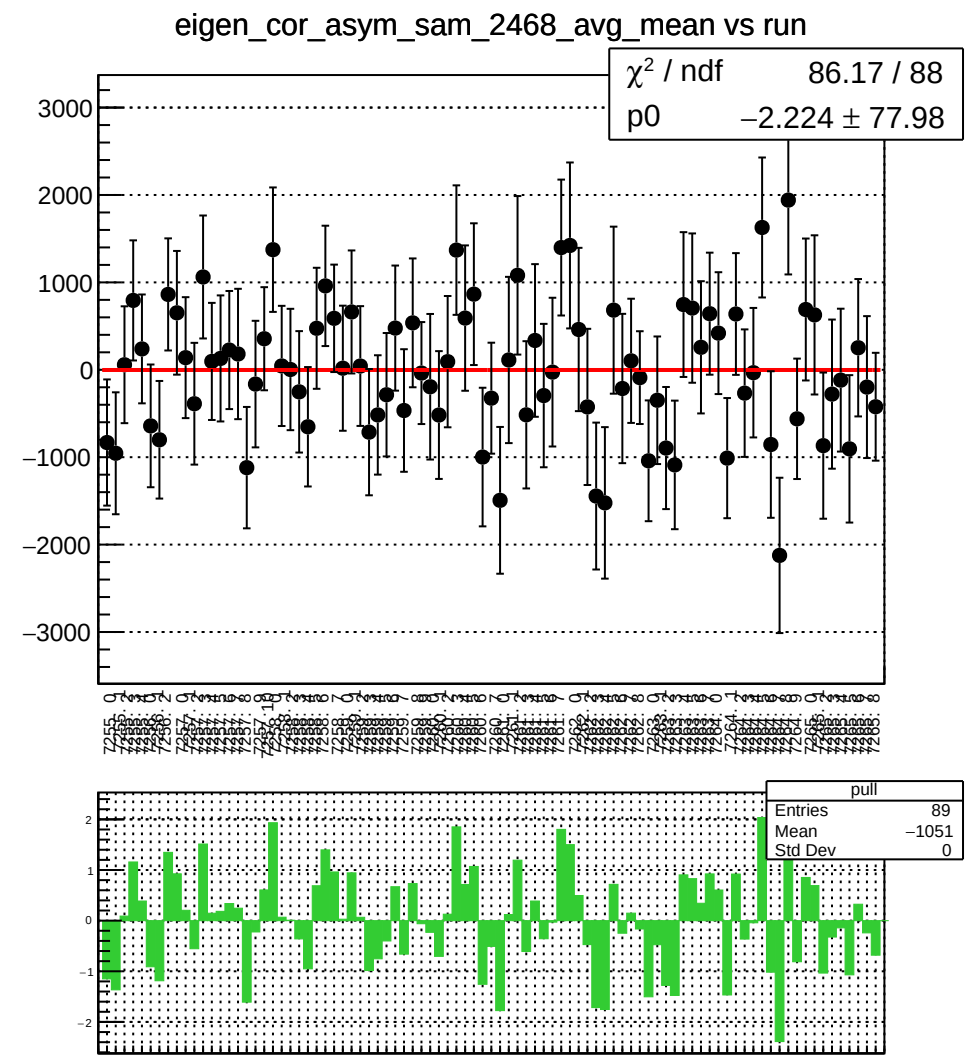

pull1D
Entries 89
Mean 0.001892
Std Dev 0.984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

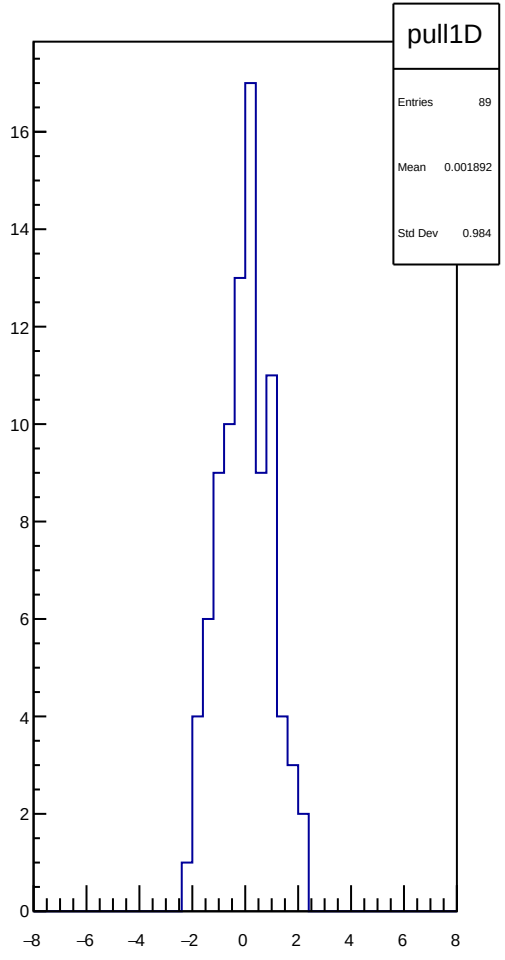

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.667e+04 / 88
p0 71.44 ± 0.05514
90
85
80
75
70
65
60

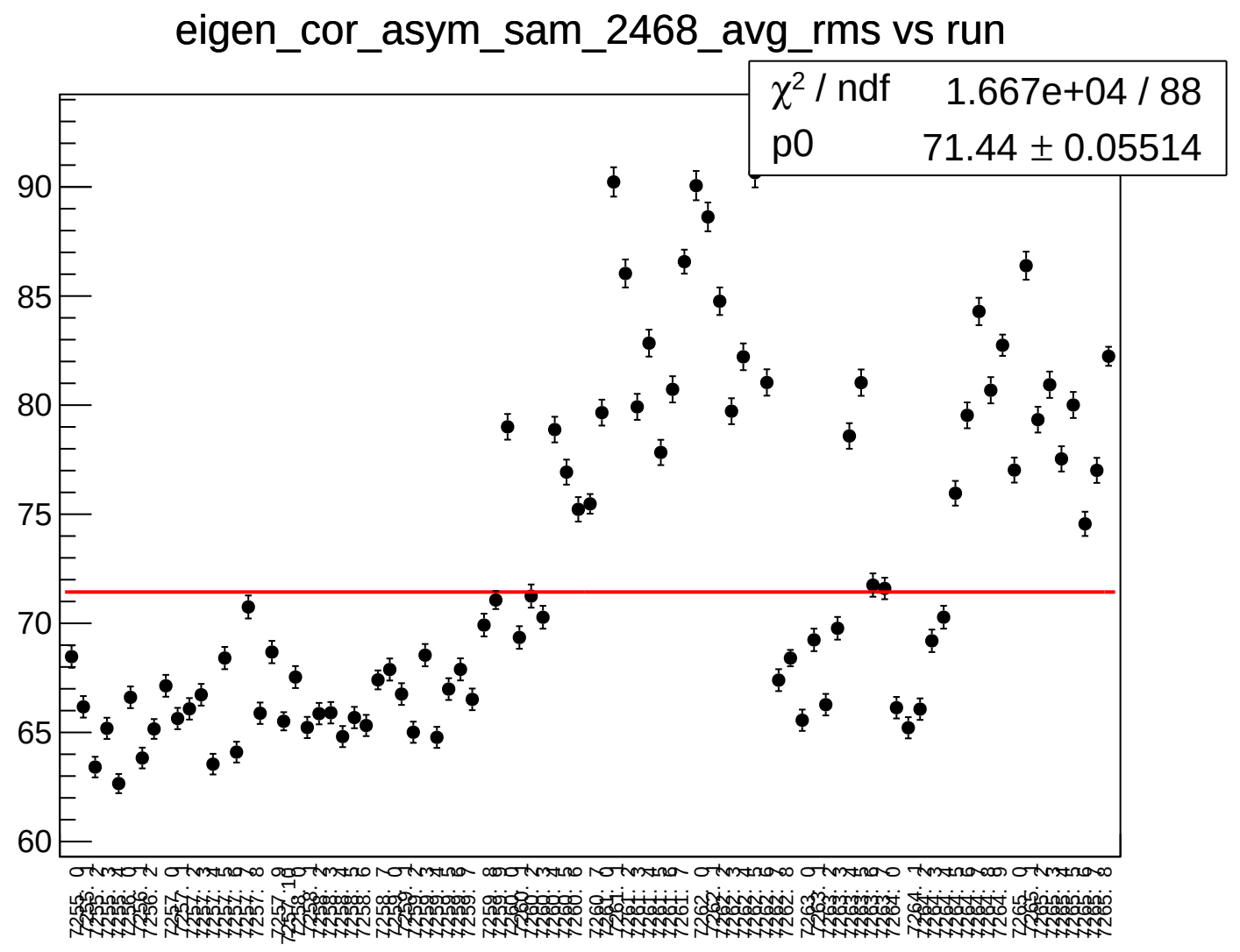

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 94.34 / 88
p0 −908 ± 576.8
pull
Entries 89
Mean −252.8
Std Dev 0

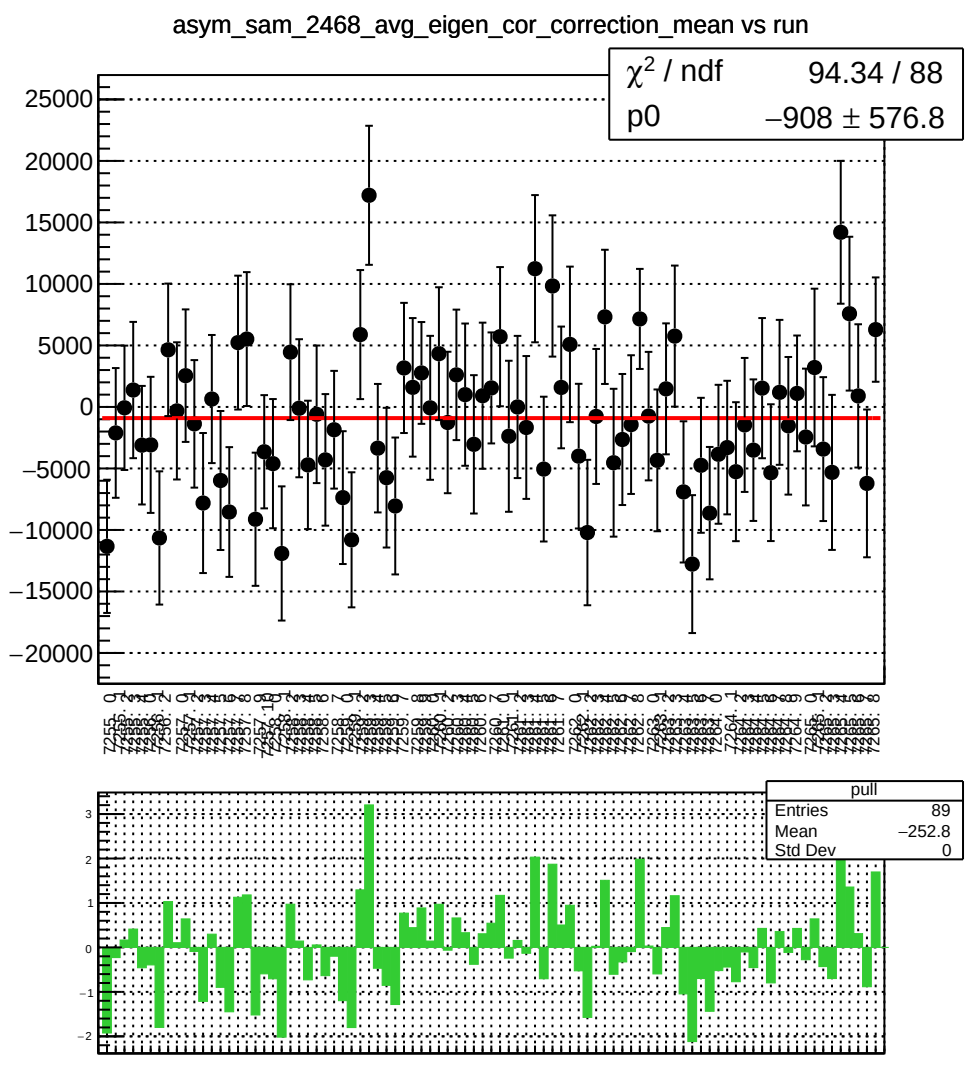

pull1D
Entries 89
Mean −0.01263
Std Dev 1.03

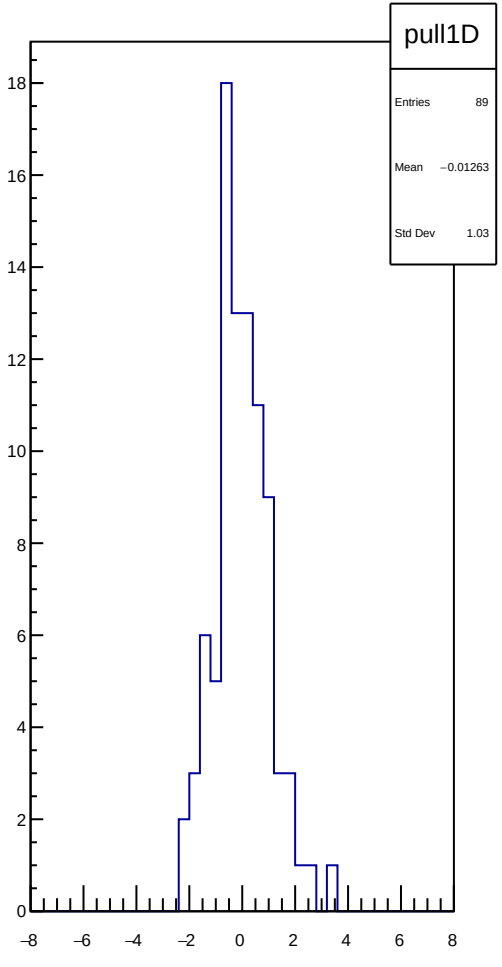

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 3982 / 88
p0 530.4 ± 0.4079
620
600
580
560
540
520
500
480

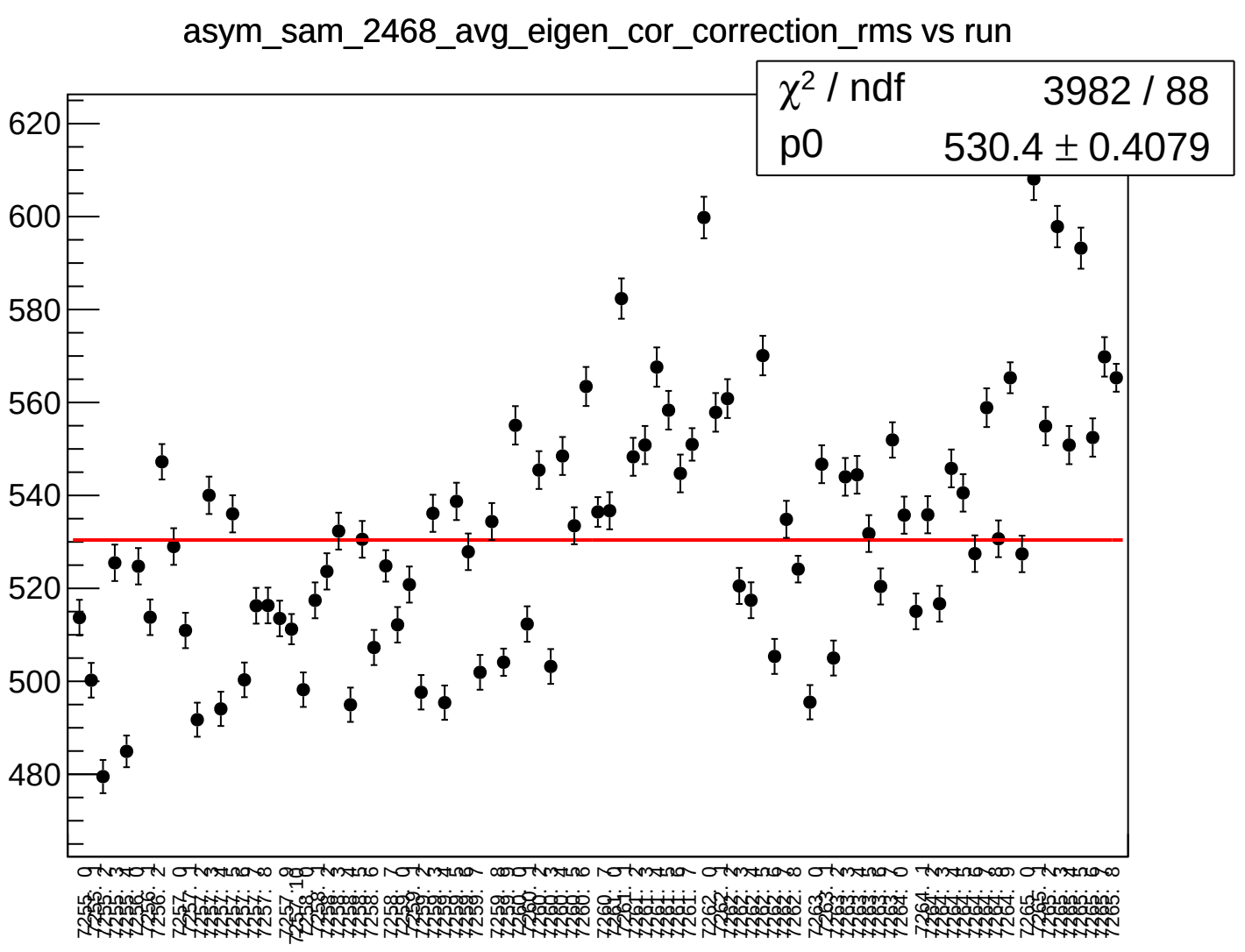

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 86.17 / 88
p0 −2.224 ± 77.98
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −1051
Std Dev 0
2
1
0
−1
−2

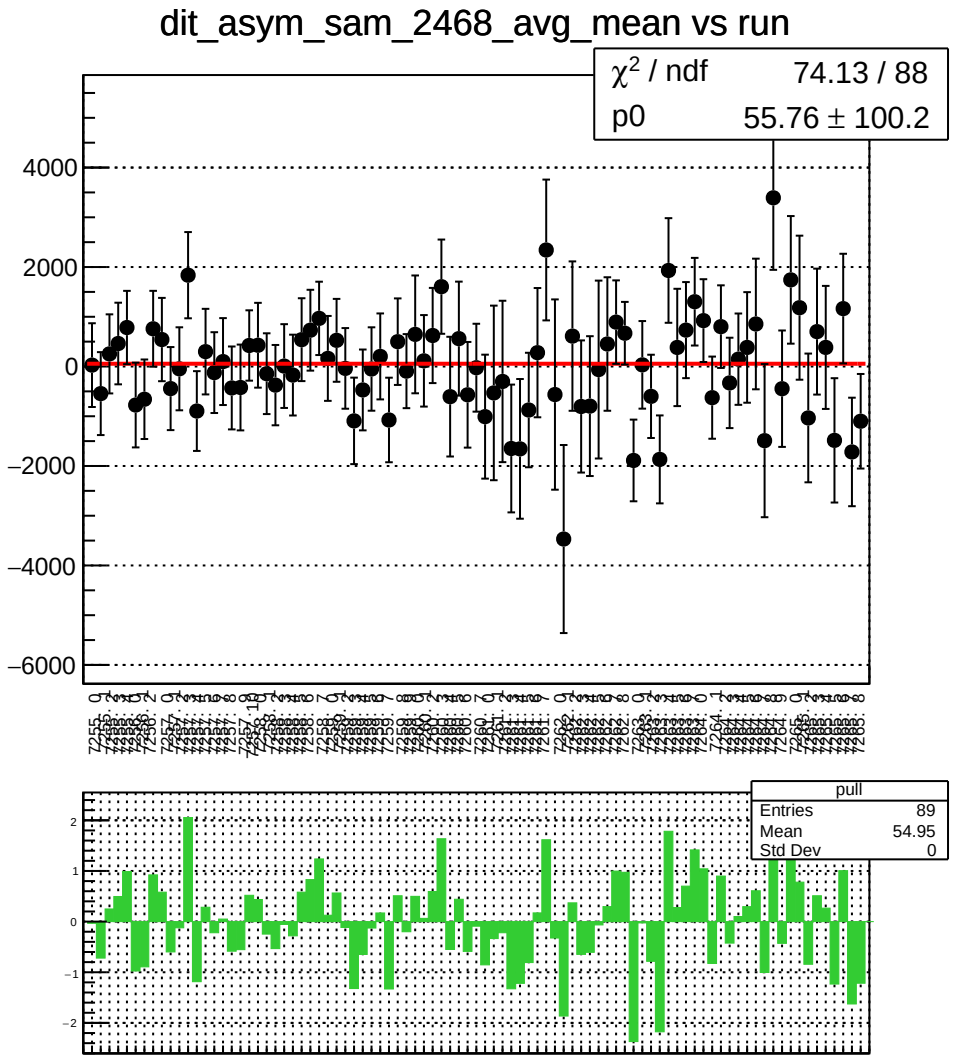

pull1D
Entries 89
Mean 0.001892
Std Dev 0.984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

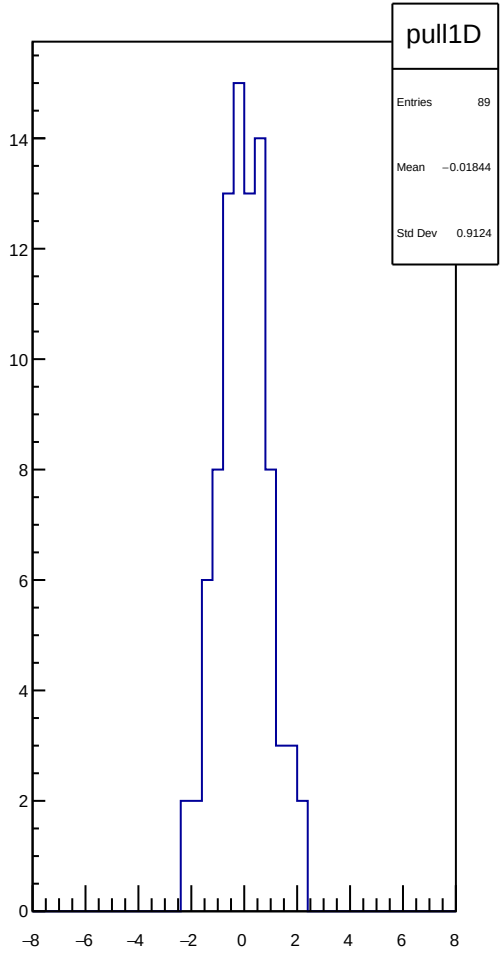

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.667e+04 / 88
p0 71.44 ± 0.05514
90
85
80
75
70
65
60

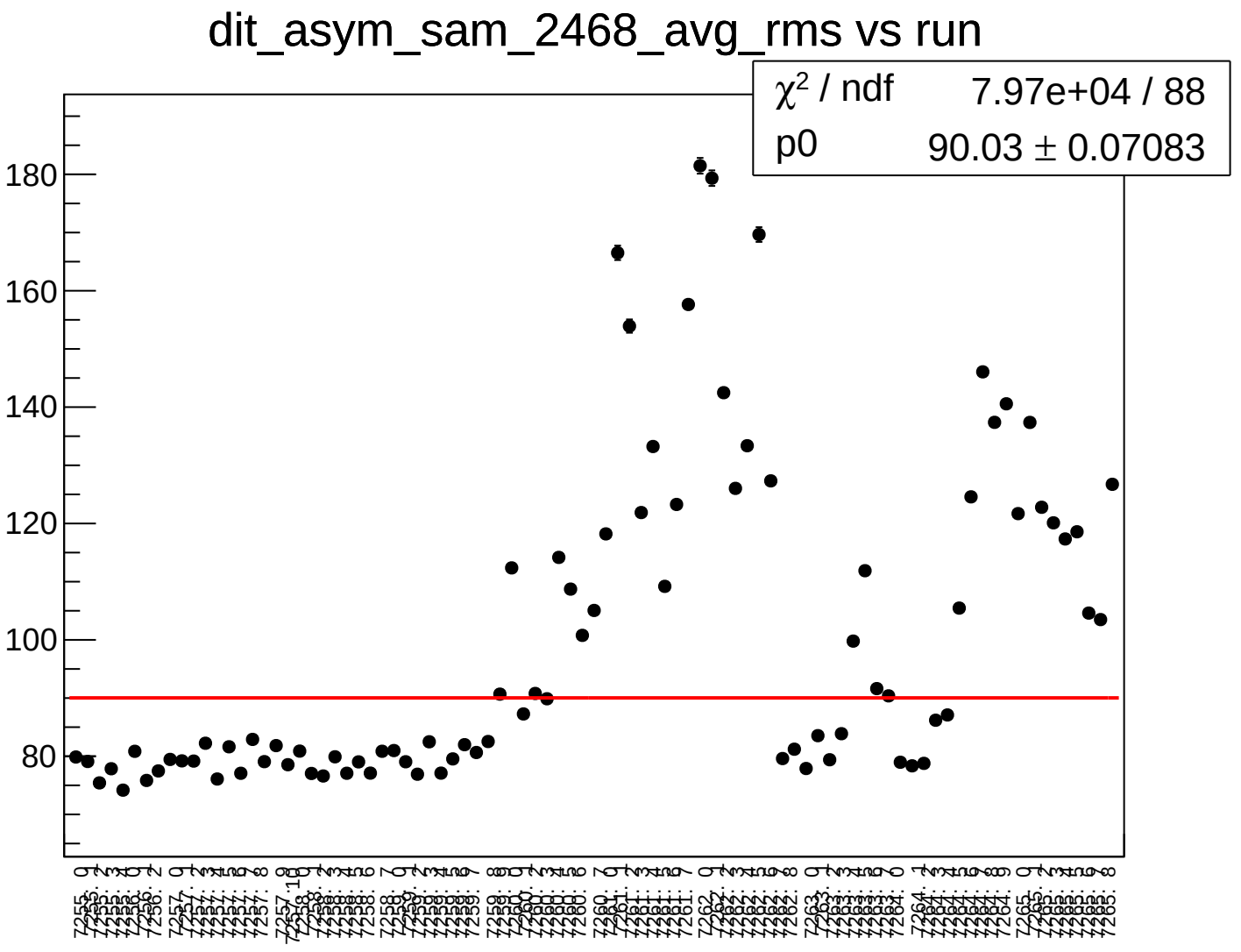

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.34 / 88
p0 −908 ± 576.8
pull
Entries 89
Mean −252.8
Std Dev 0

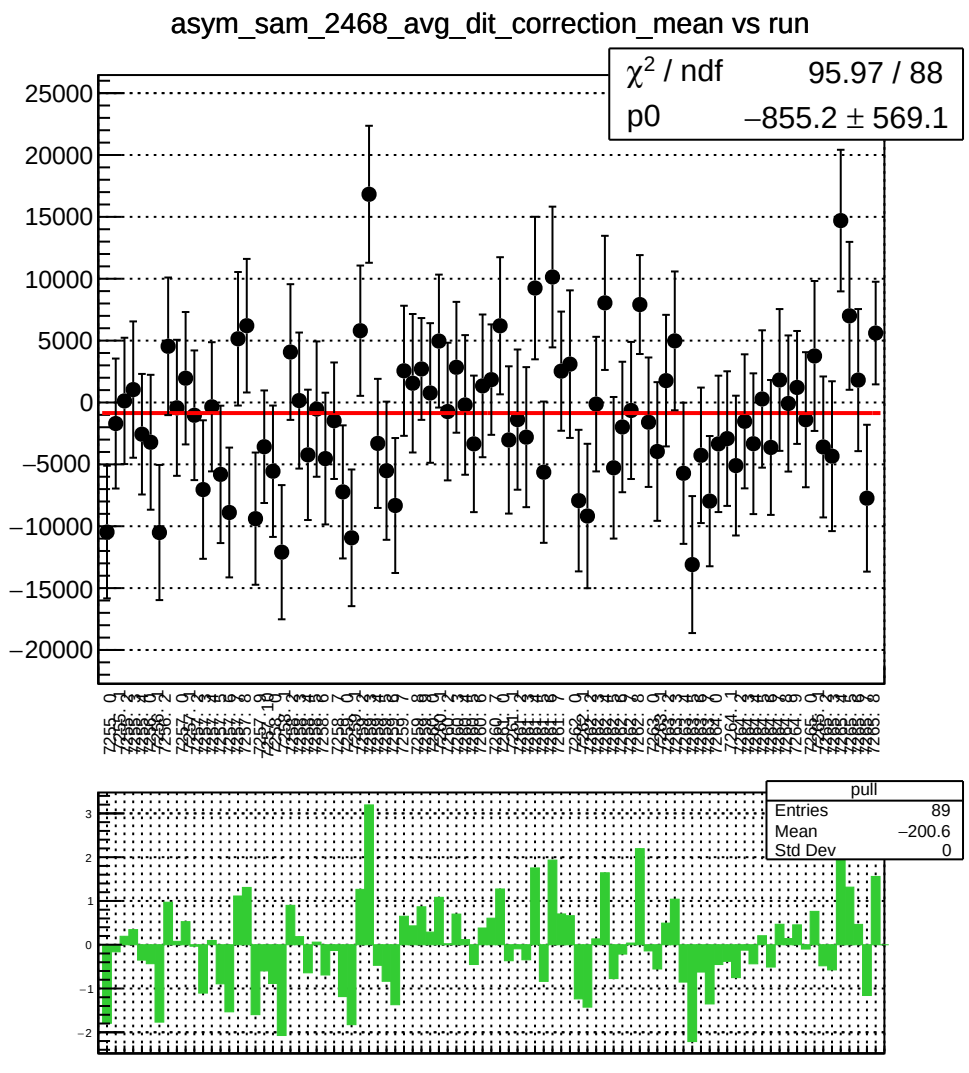

pull1D
Entries 89
Mean −0.01263
Std Dev 1.03

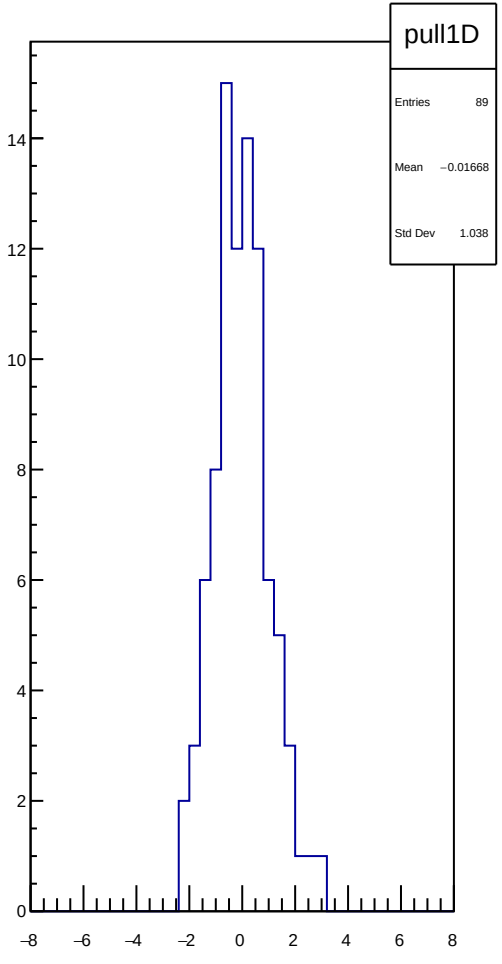

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 3982 / 88
p0 530.4 ± 0.4079
620
600
580
560
540
520
500
480

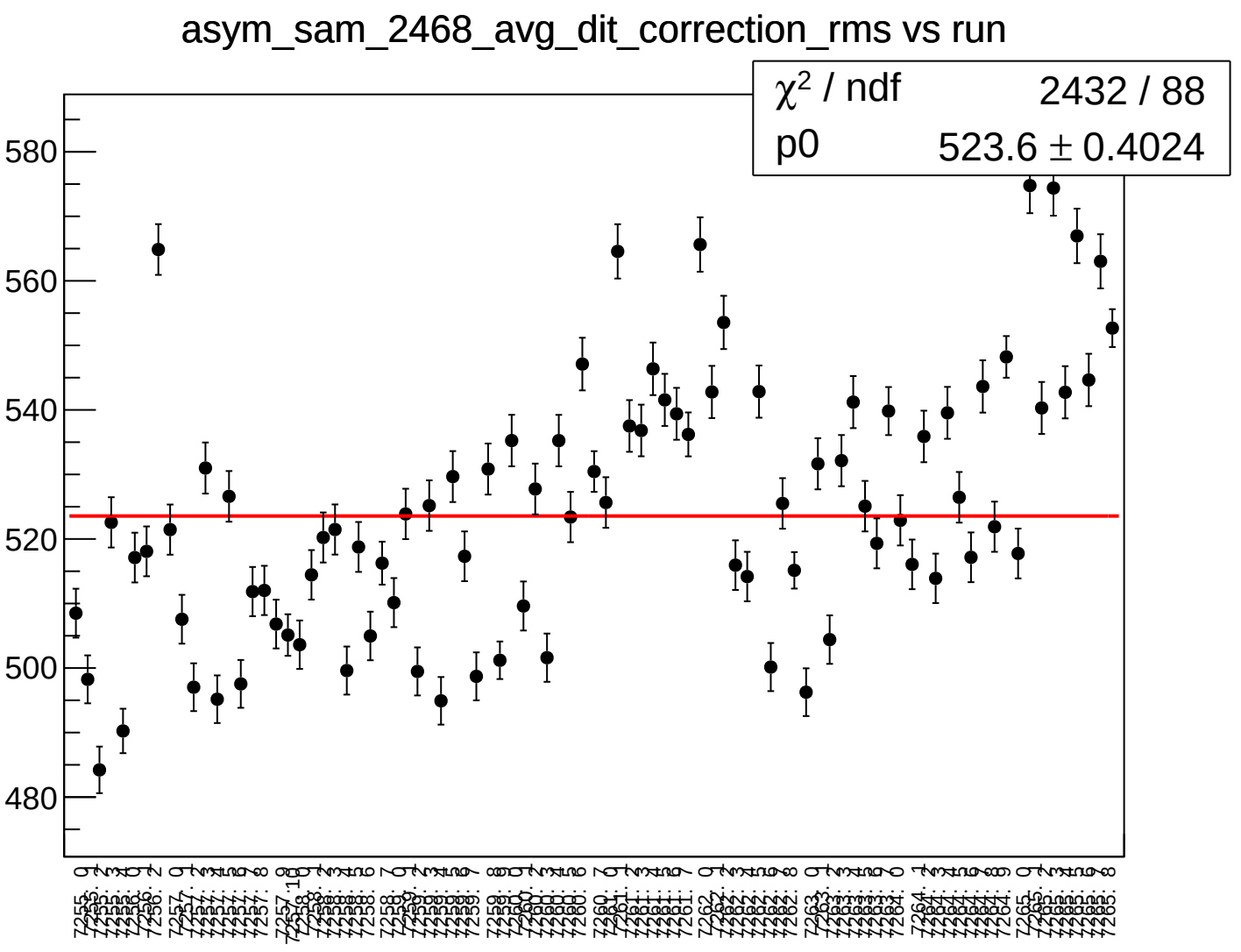

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 74.13 / 88
p0 55.76 ± 100.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 54.95
Std Dev 0
2
1
0
−1
−2

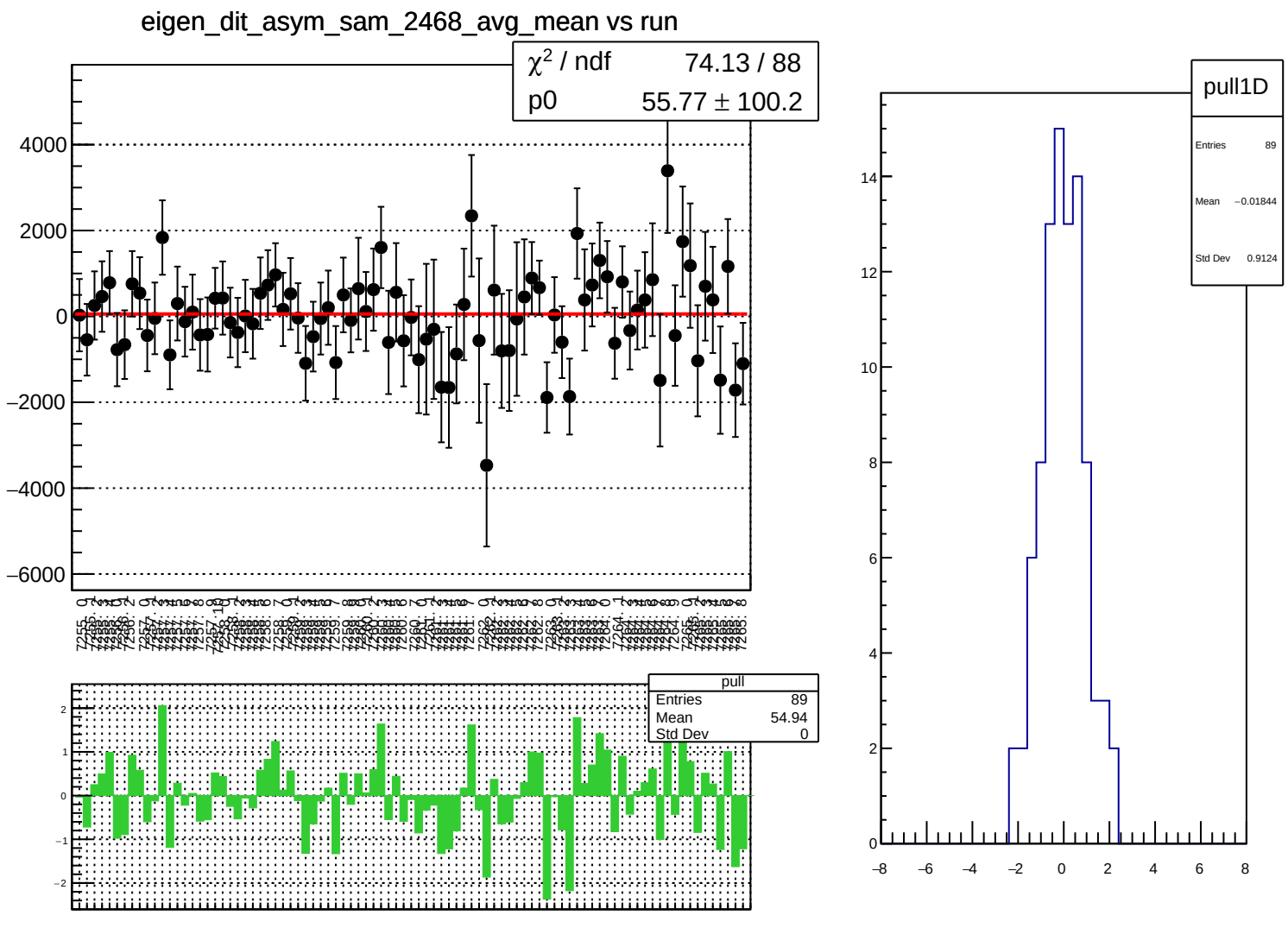

pull1D
Entries 89
Mean −0.01844
Std Dev 0.9124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

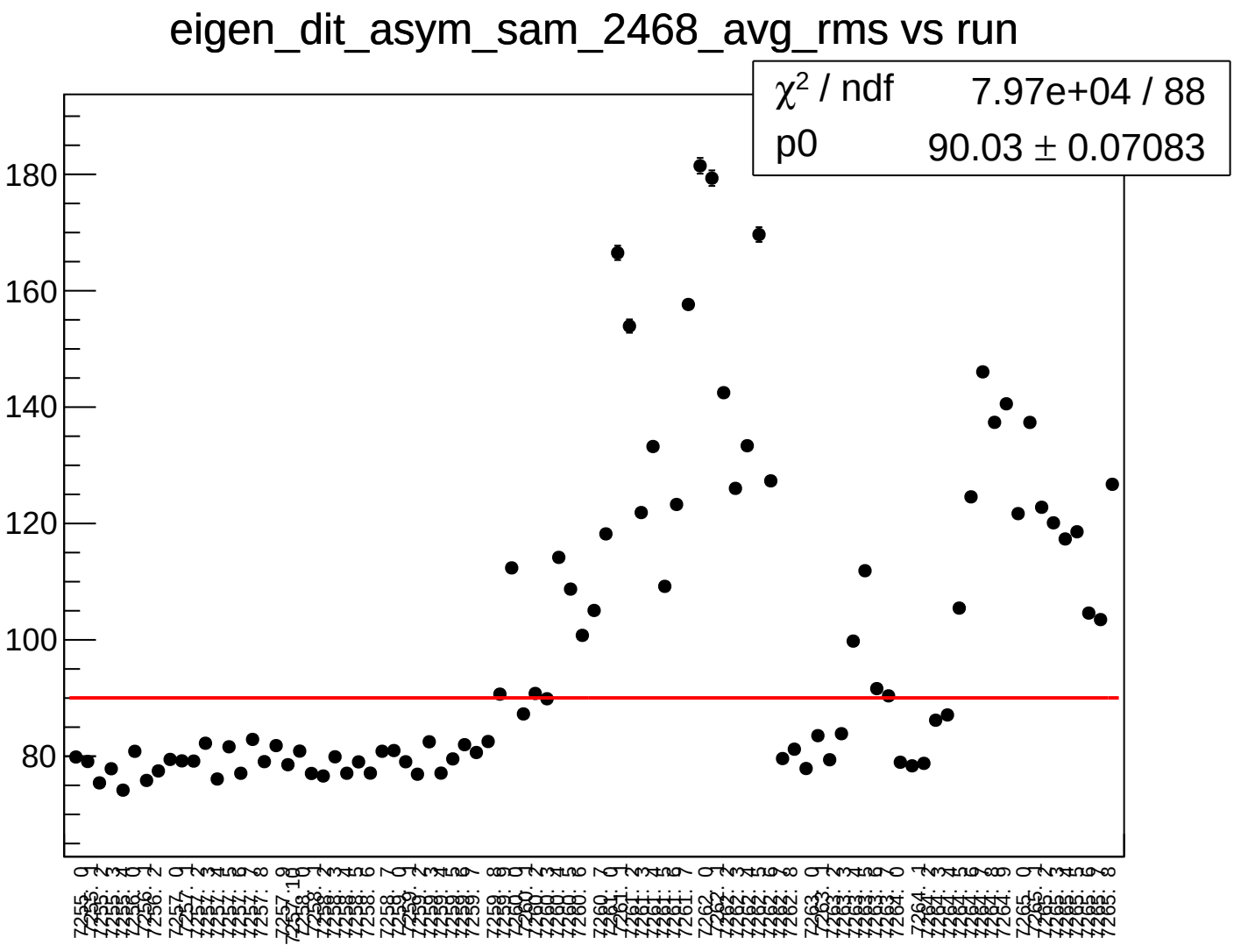

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 7.97e+04 / 88
p0 90.03 ± 0.07083
180
160
140
120
100
80

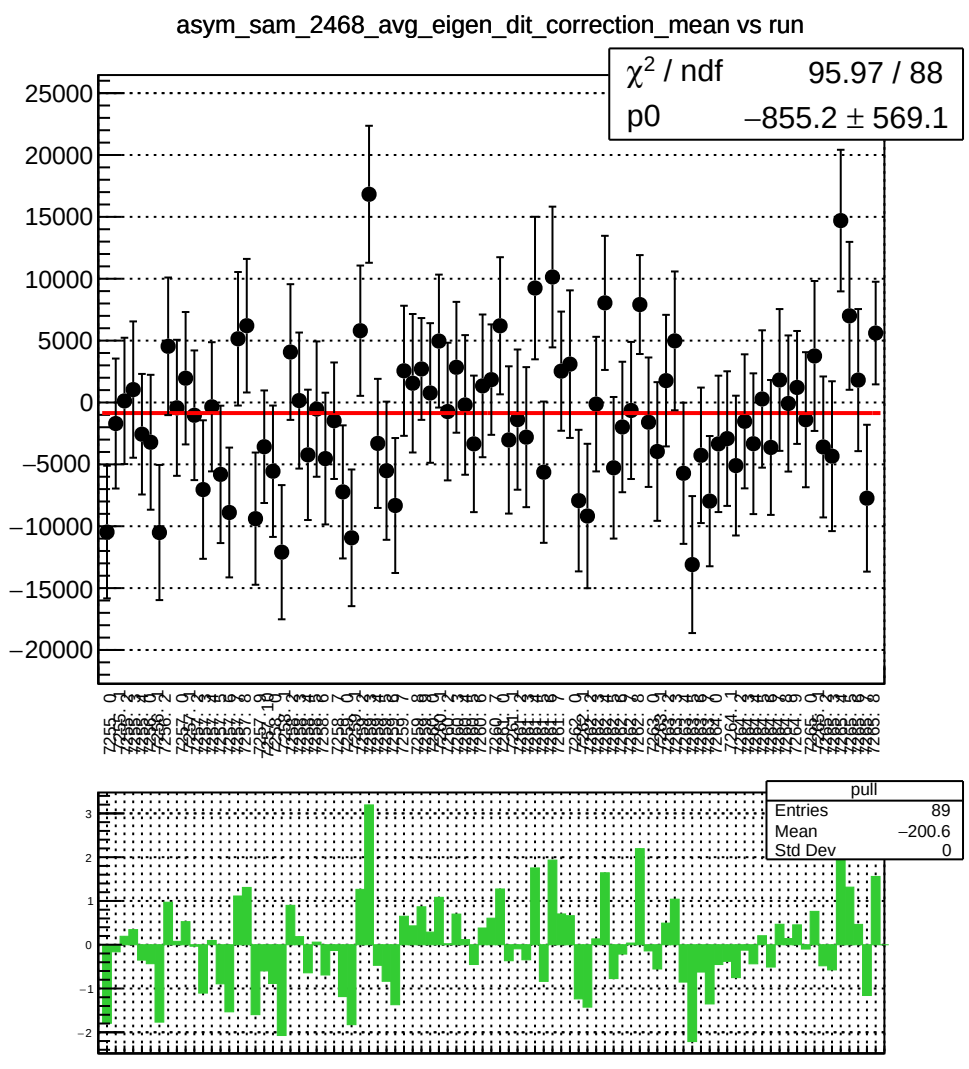

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 95.97 / 88
p0 −855.2 ± 569.1
pull
Entries 89
Mean −200.6
Std Dev 0

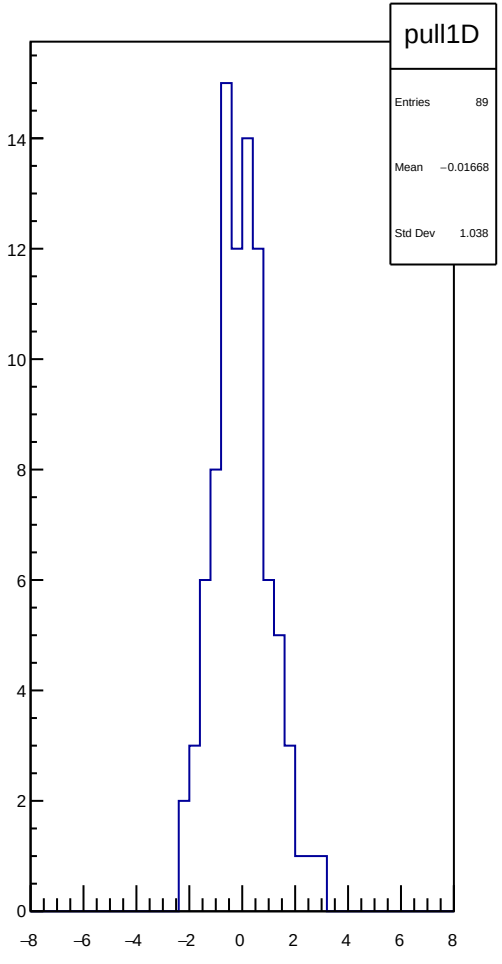

pull1D
Entries 89
Mean −0.01668
Std Dev 1.038

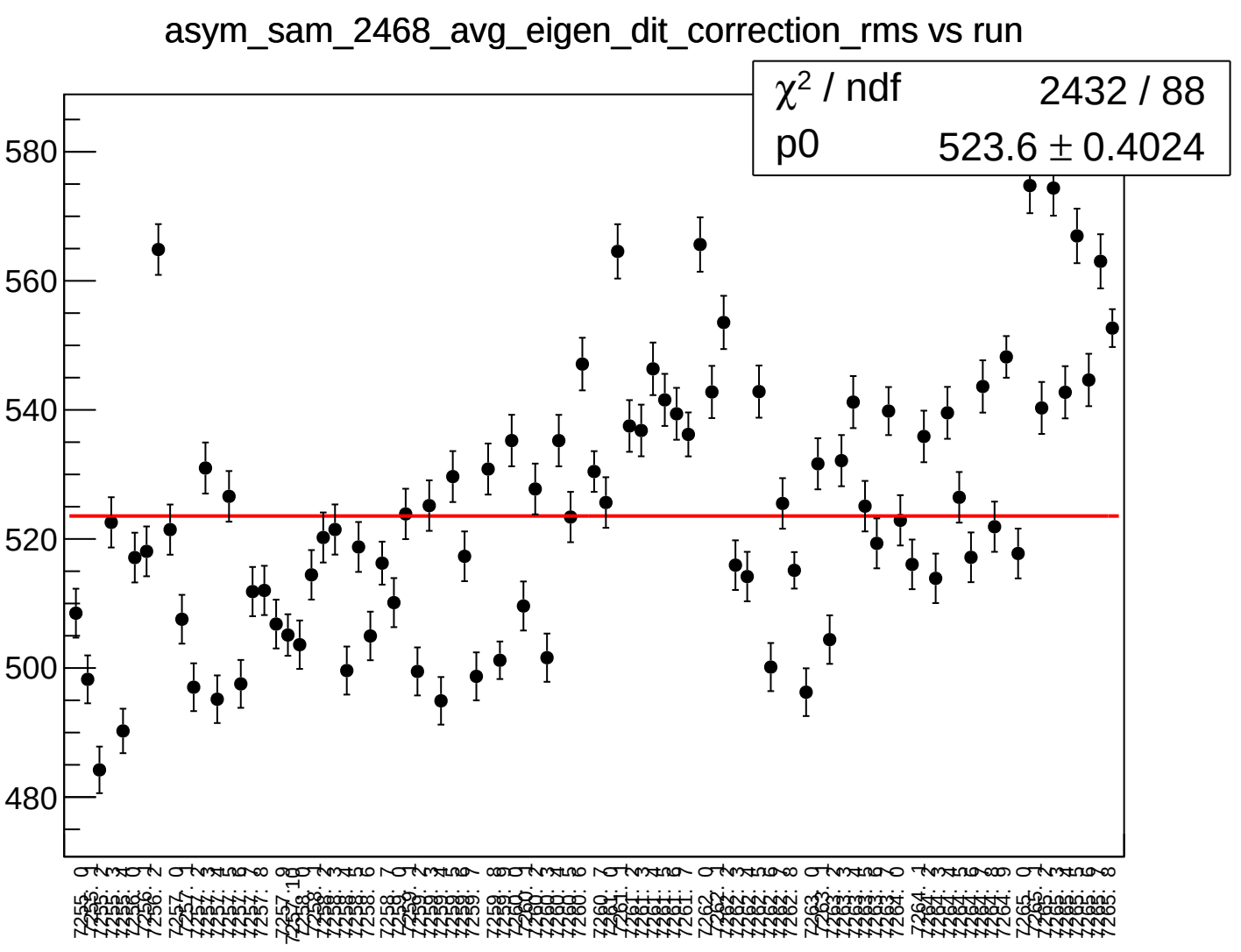

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 2432 / 88
p0 523.6 ± 0.4024
580
560
540
520
500
480

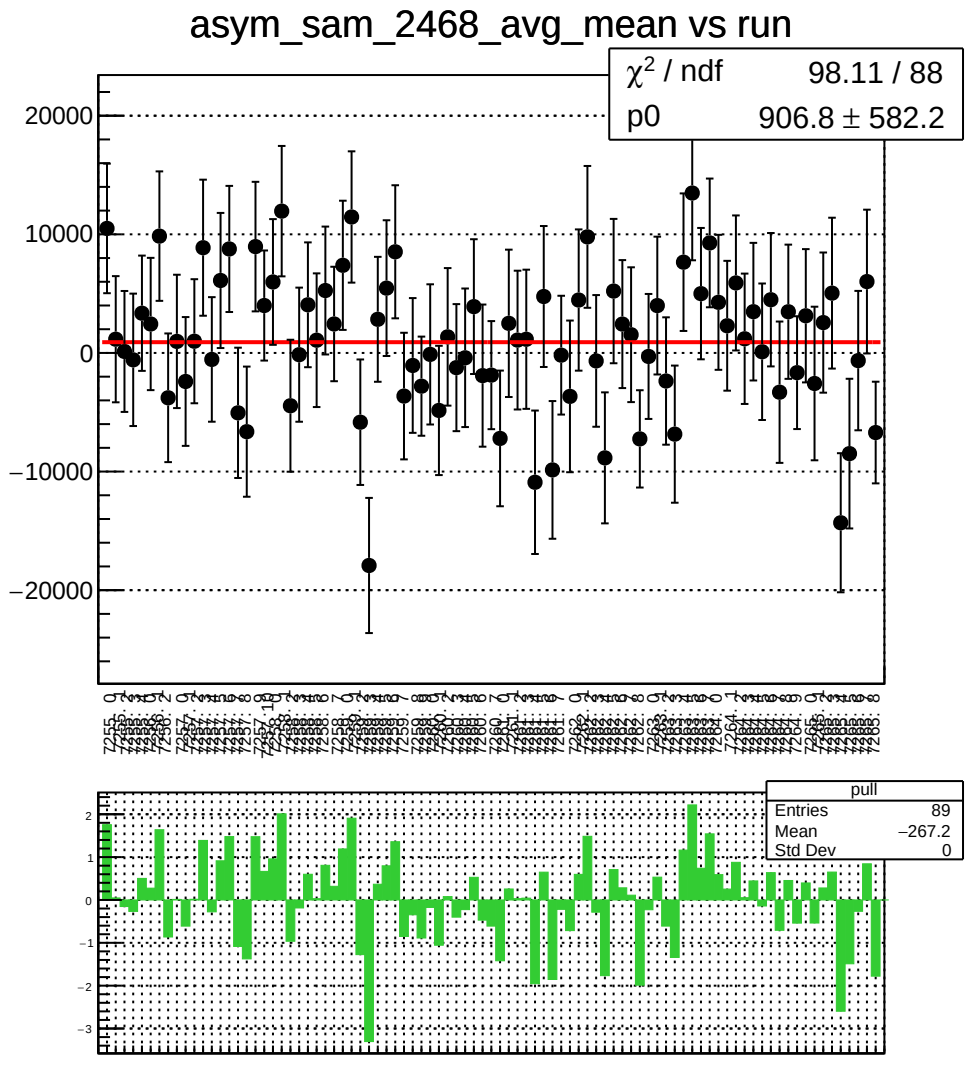

eigen_dit_asym_sam_2468_avg_mean vs run
χ^2 / ndf 74.13 / 88
p0 55.77 ± 100.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 54.94
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01844
Std Dev 0.9124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

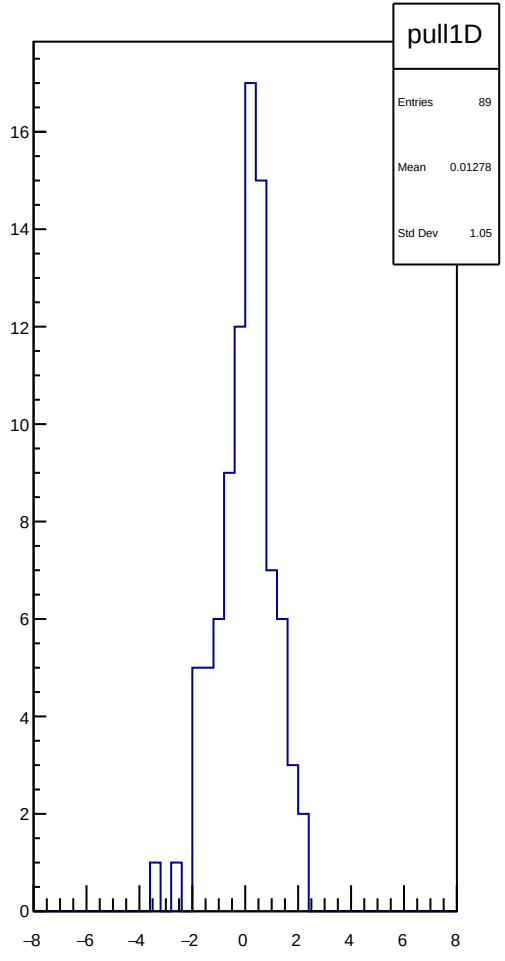

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 7.97e+04 / 88
p0 90.03 ± 0.07083
180
160
140
120
100
80

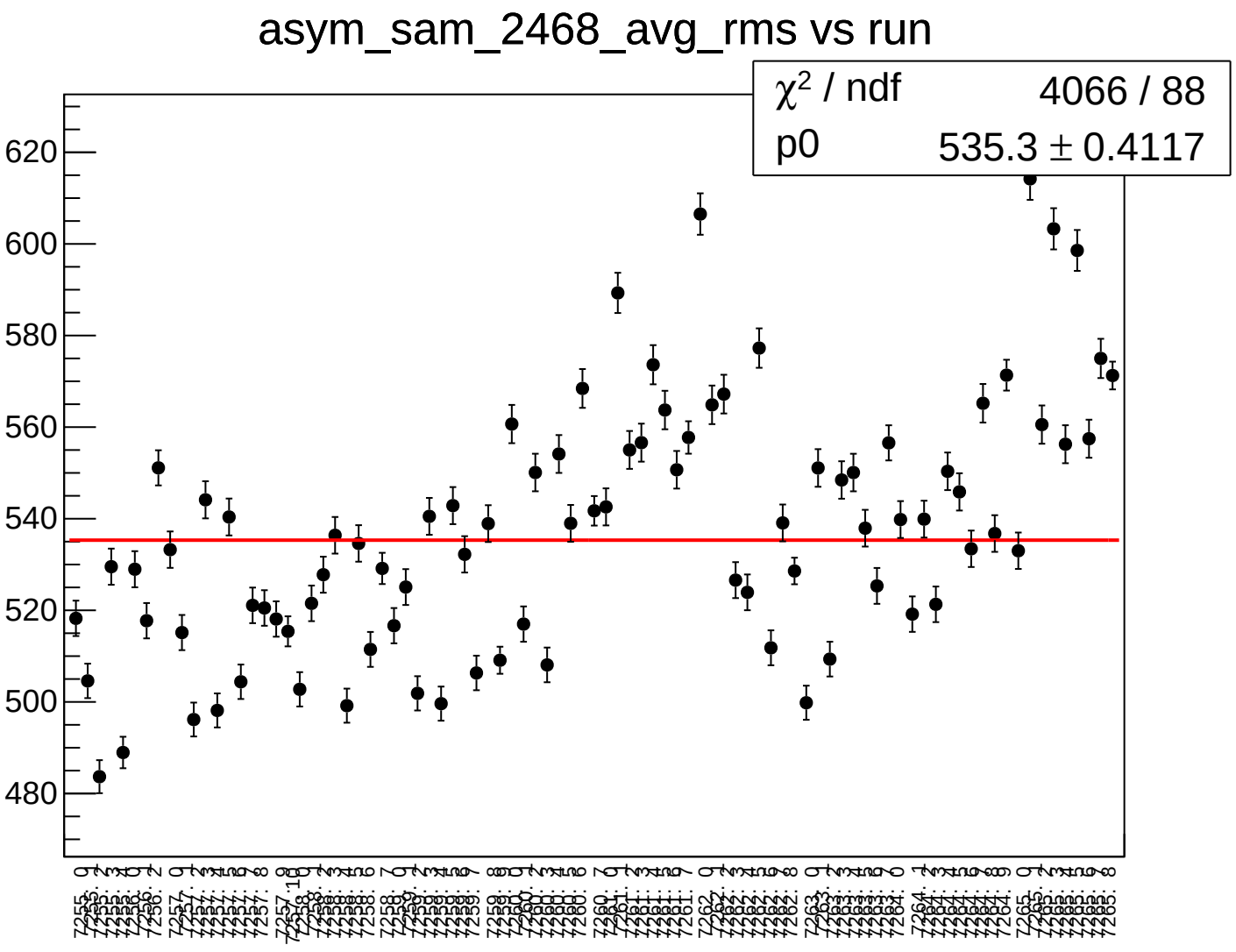

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.97 / 88
p0 −855.2 ± 569.1
pull
Entries 89
Mean −200.6
Std Dev 0

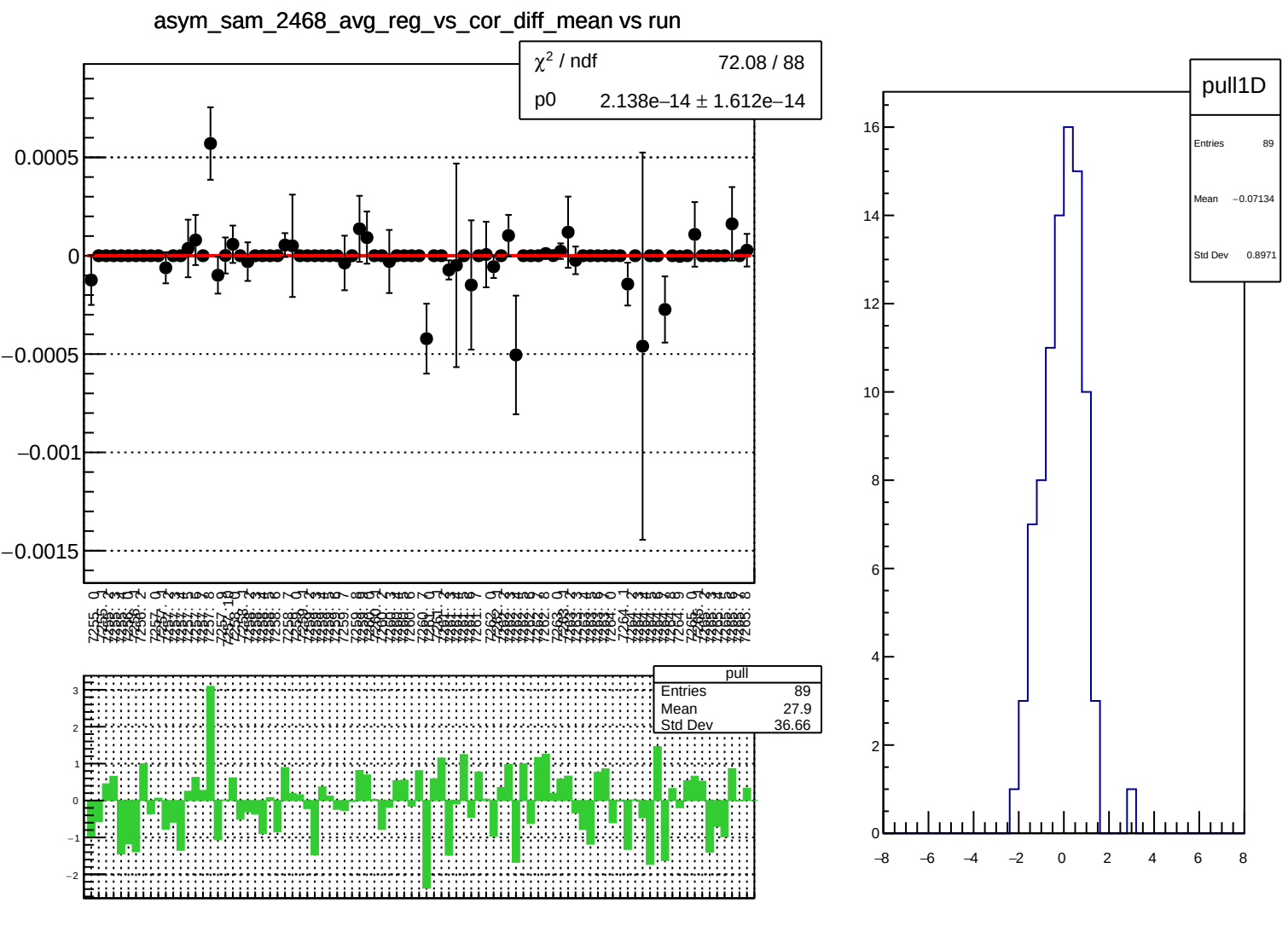

pull1D
Entries 89
Mean −0.01668
Std Dev 1.038

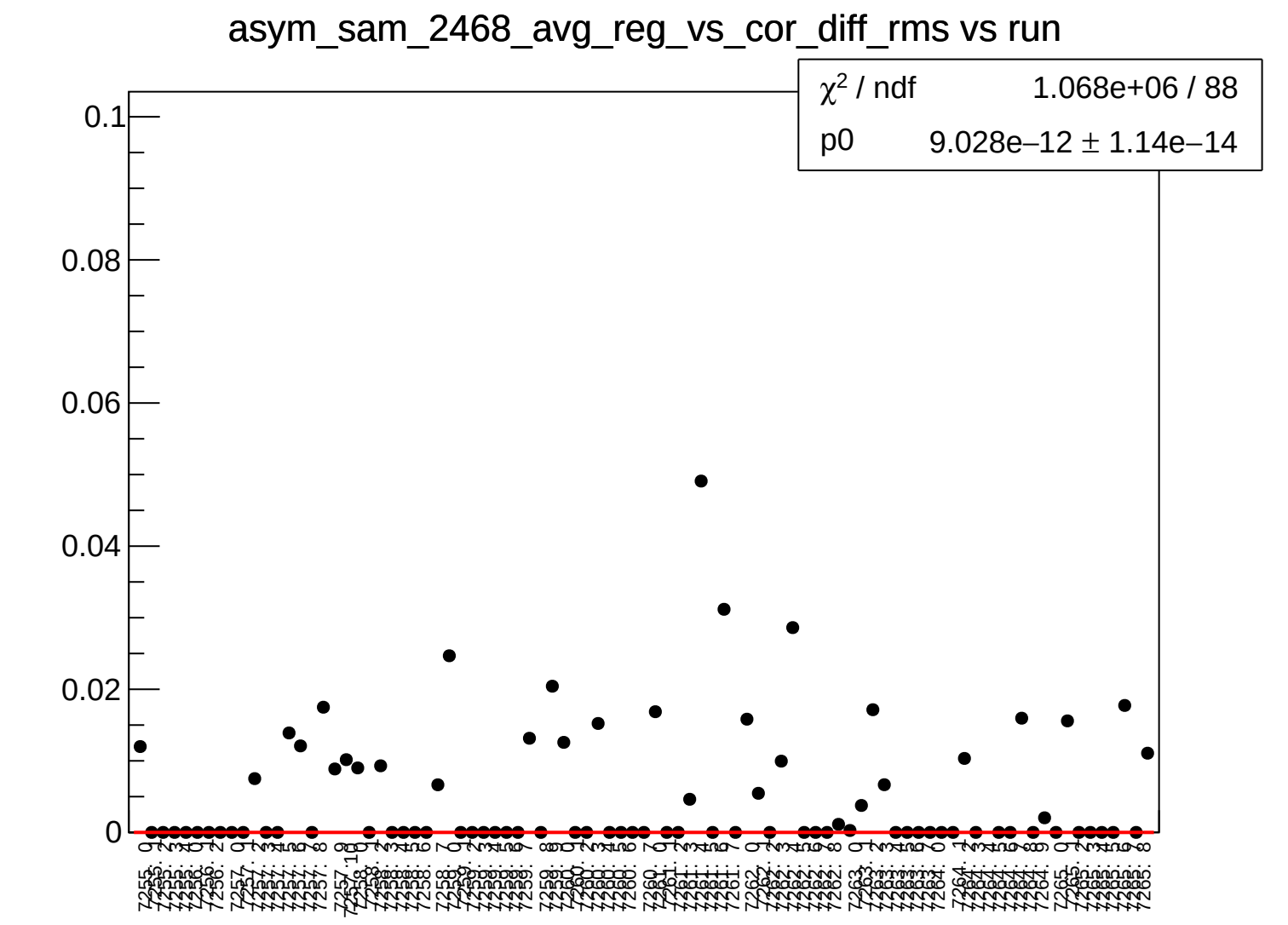

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 2432 / 88
p0 523.6 ± 0.4024
580
560
540
520
500
480

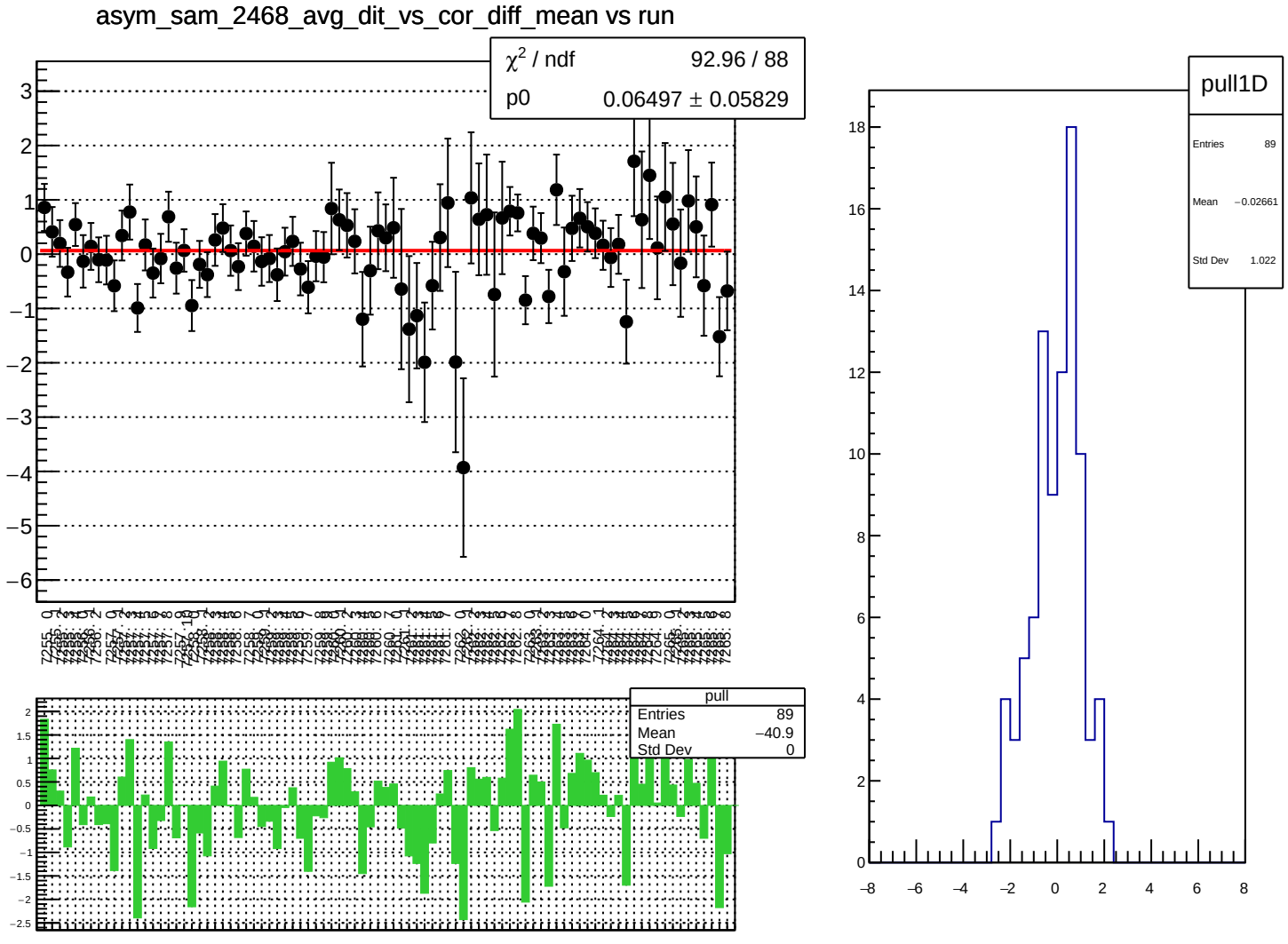

asym_sam_2468_avg_mean vs run
χ² / ndf 98.11 / 88
p0 906.8 ± 582.2
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −267.2
Std Dev 0
2
1
0
−1
−2
−3

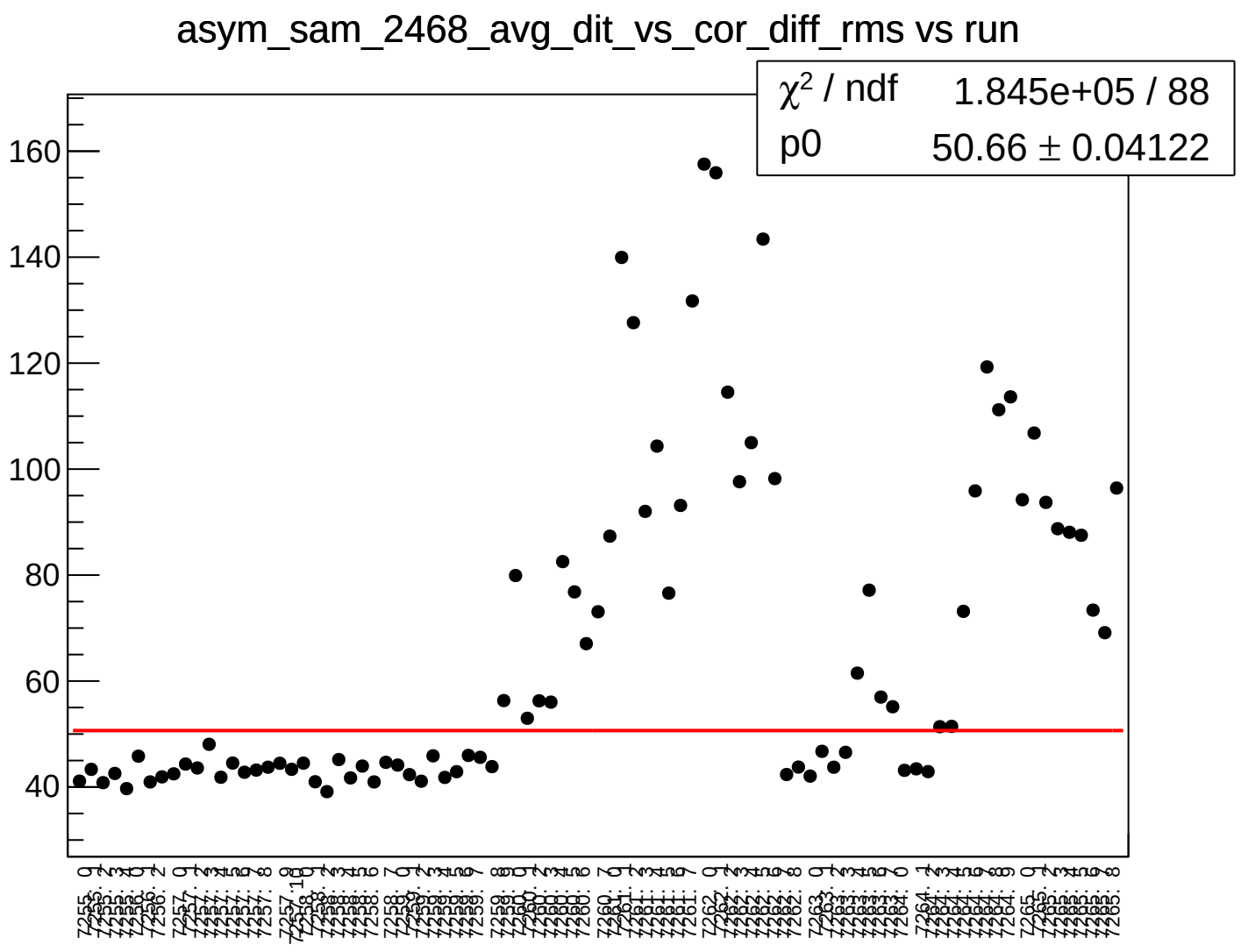

pull1D
Entries 89
Mean 0.01278
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

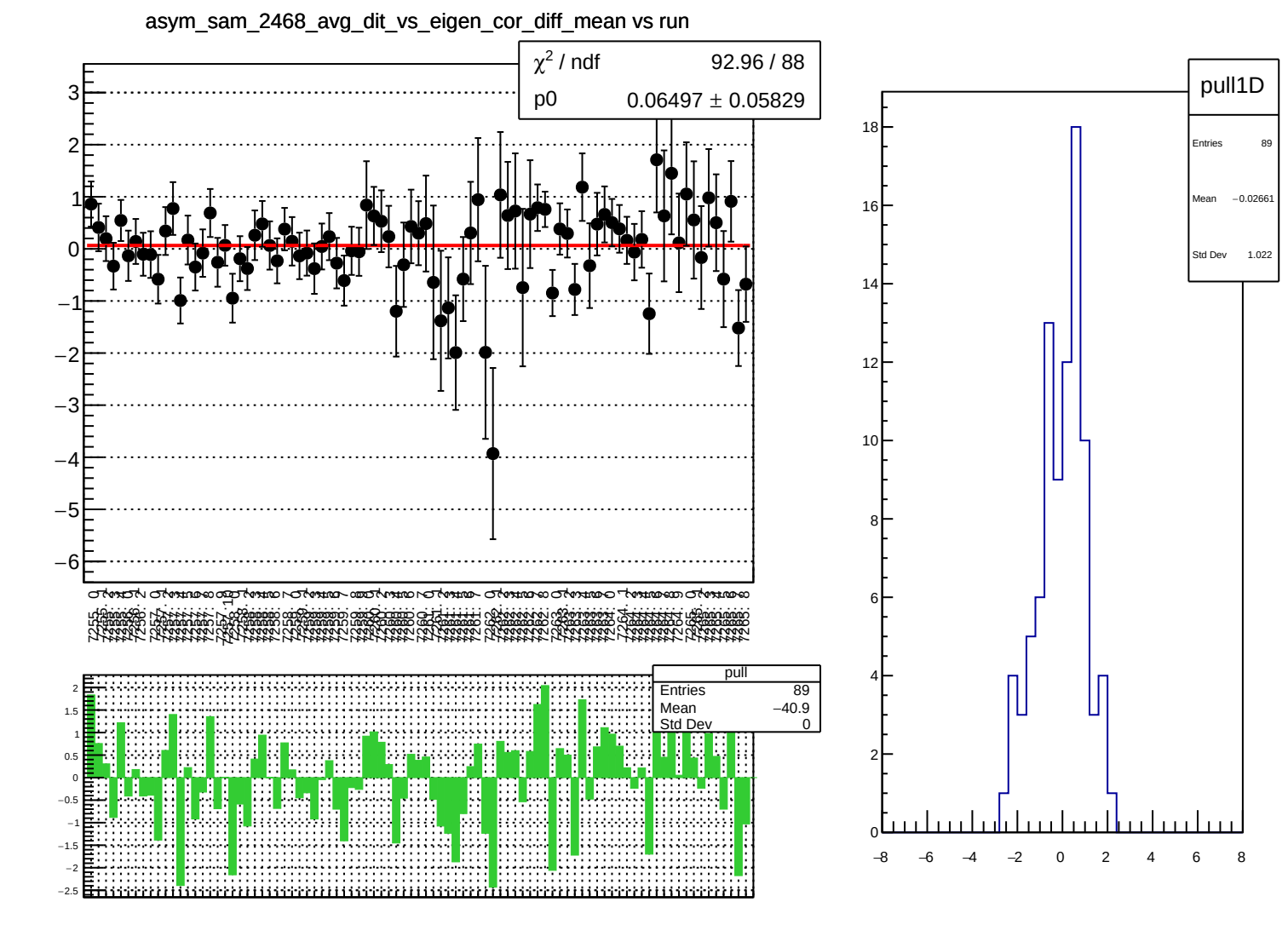

asym_sam_2468_avg_rms vs run
χ² / ndf 4066 / 88
p0 535.3 ± 0.4117
620
600
580
560
540
520
500
480

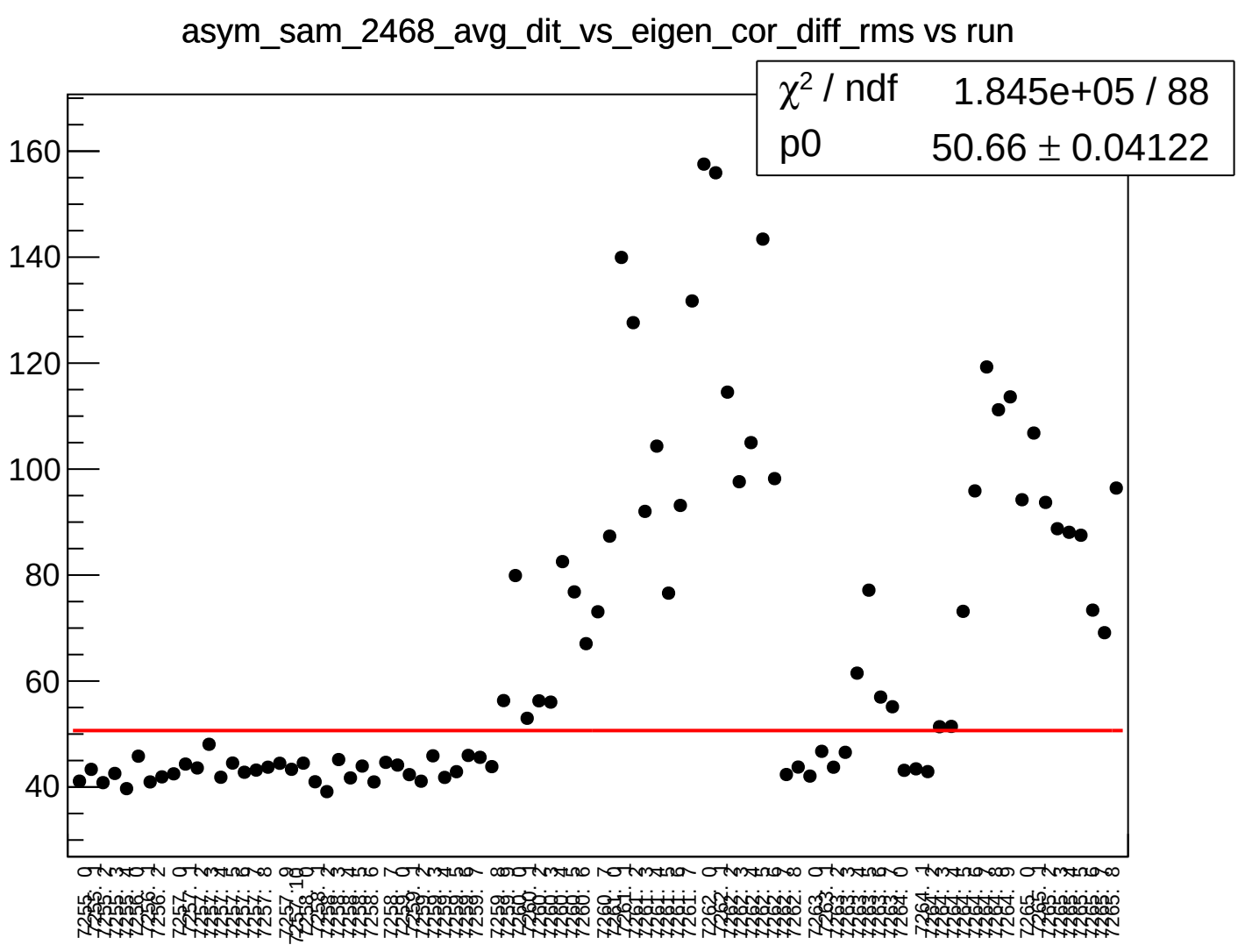

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.08 / 88
p0 2.138e−14 ± 1.612e−14
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean 27.9
Std Dev 36.66
pull1D
Entries 89
Mean −0.07134
Std Dev 0.8971

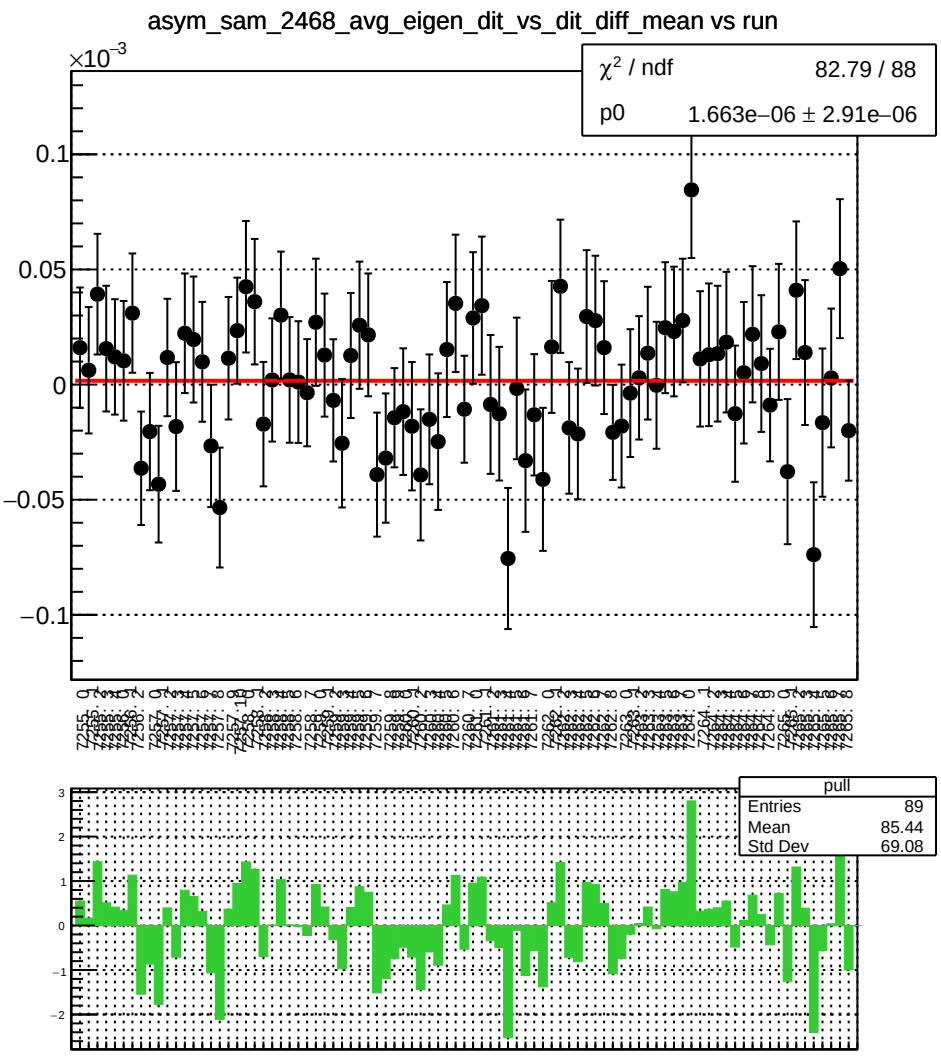

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.068e+06 / 88
p0 9.028e−12 ± 1.14e−14
0.1
0.08
0.06
0.04
0.02
0

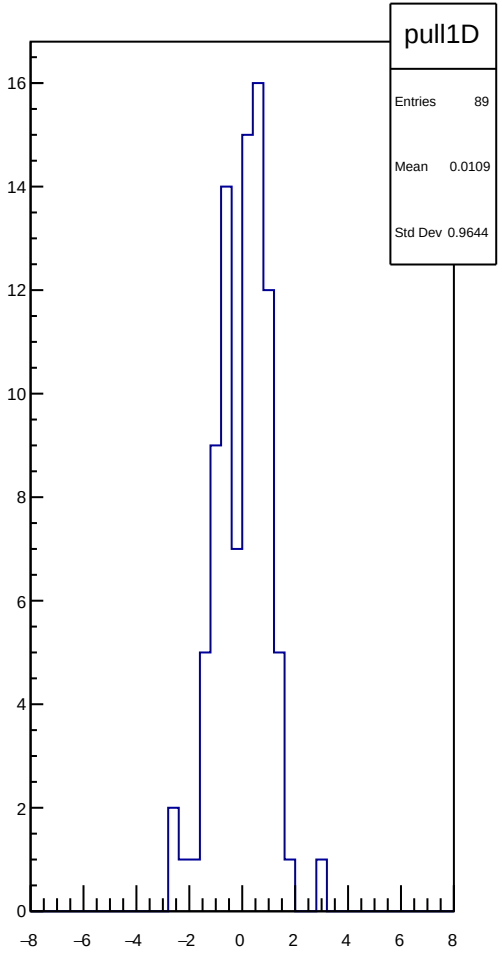

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.96 / 88
p0 0.06497 ± 0.05829
pull
Entries 89
Mean −40.9
Std Dev 0
pull1D
Entries 89
Mean −0.02661
Std Dev 1.022

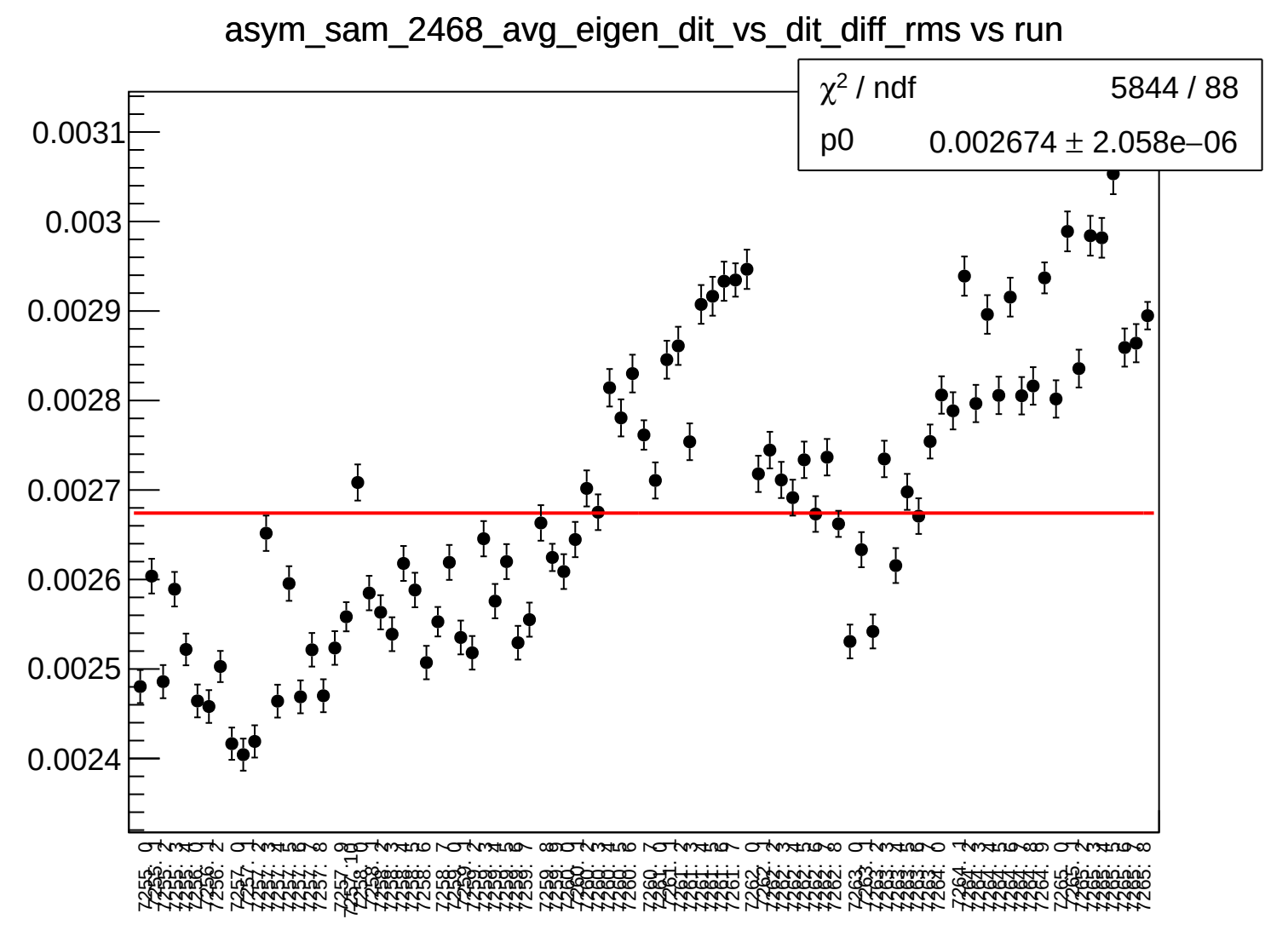

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.845e+05 / 88
p0 50.66 ± 0.04122
160
140
120
100
80
60
40

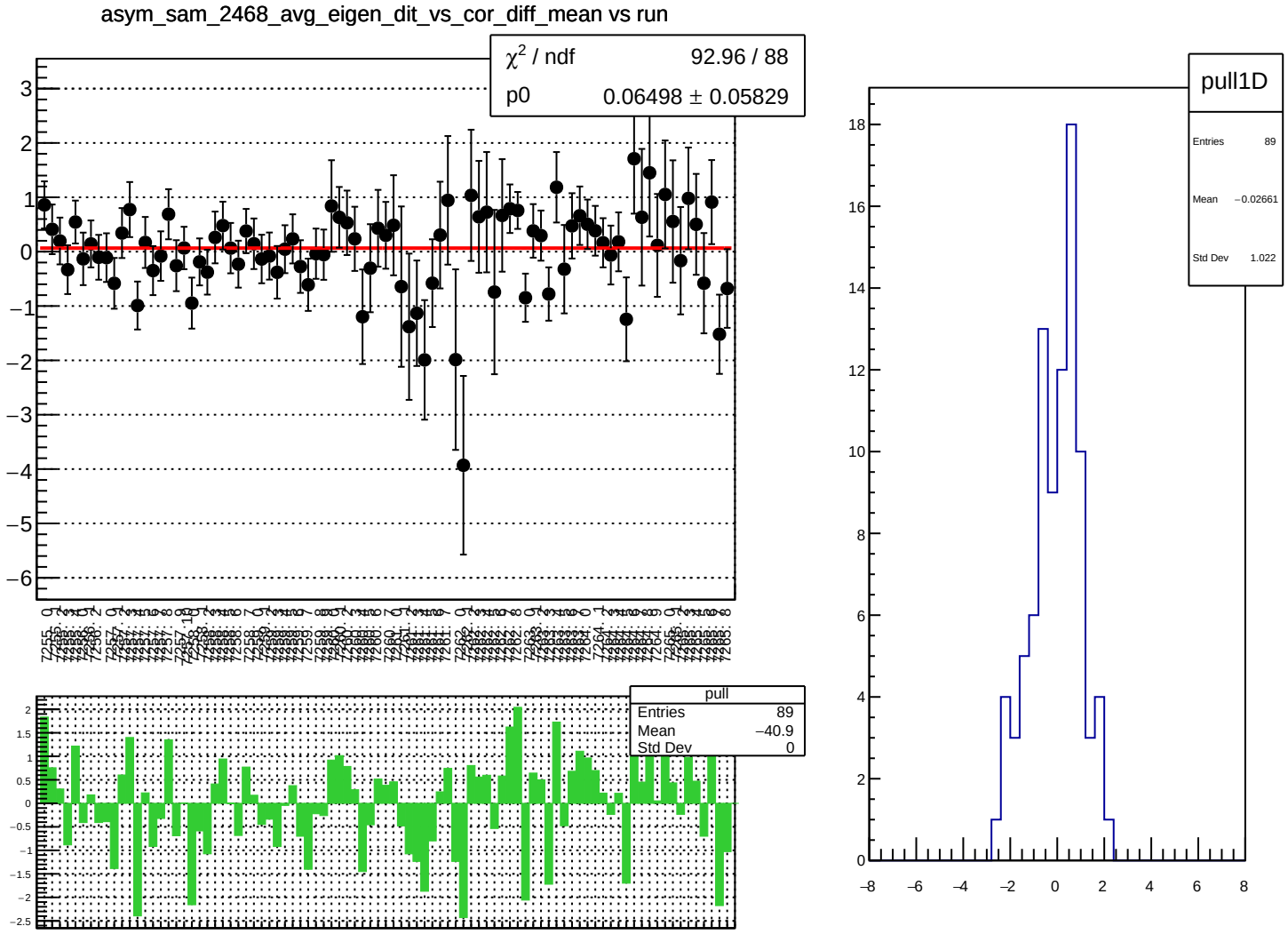

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.96 / 88
p0 0.06497 ± 0.05829
pull
Entries 89
Mean −40.9
Std Dev 0
pull1D
Entries 89
Mean −0.02661
Std Dev 1.022

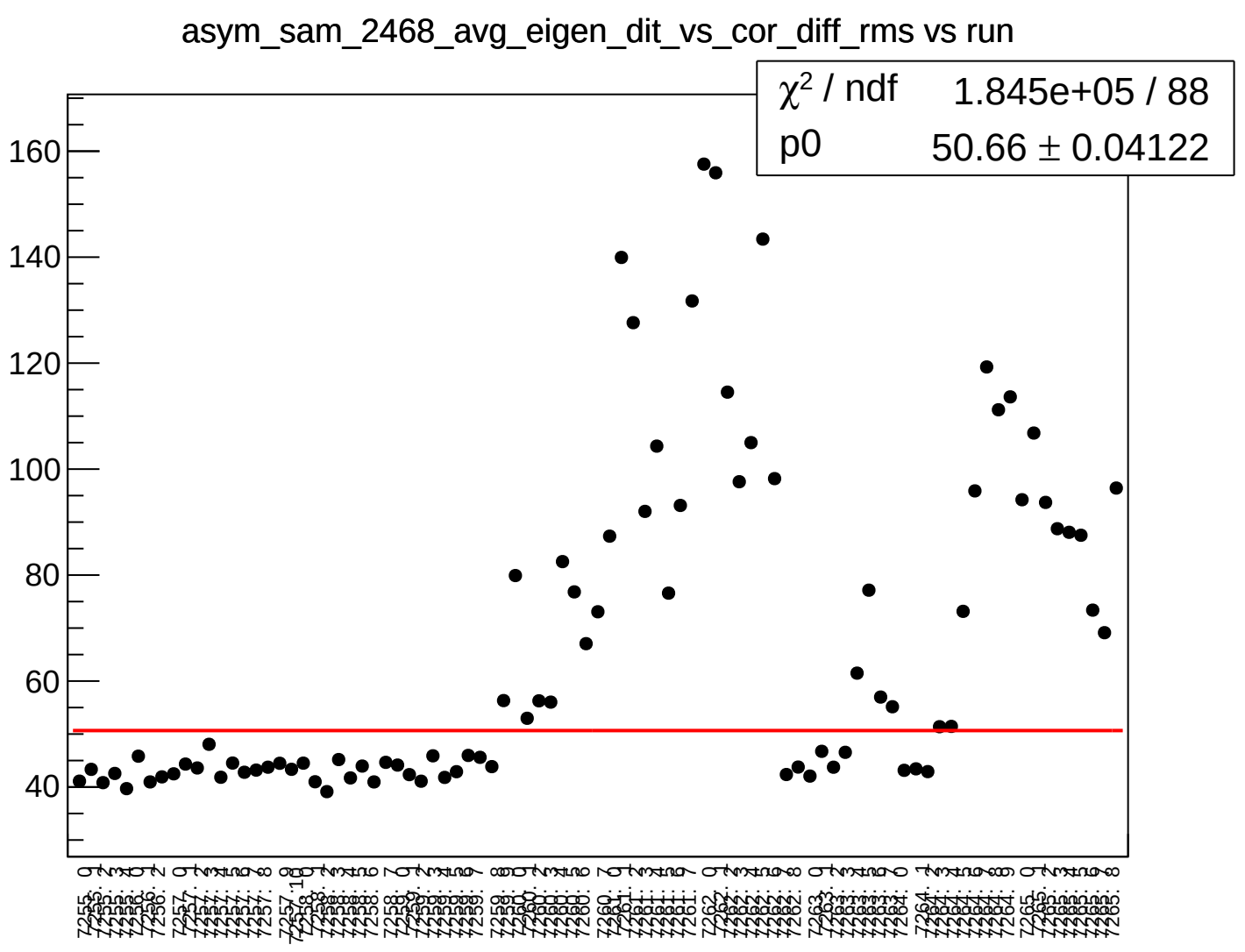

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.845e+05 / 88
p0 50.66 ± 0.04122
160
140
120
100
80
60
40

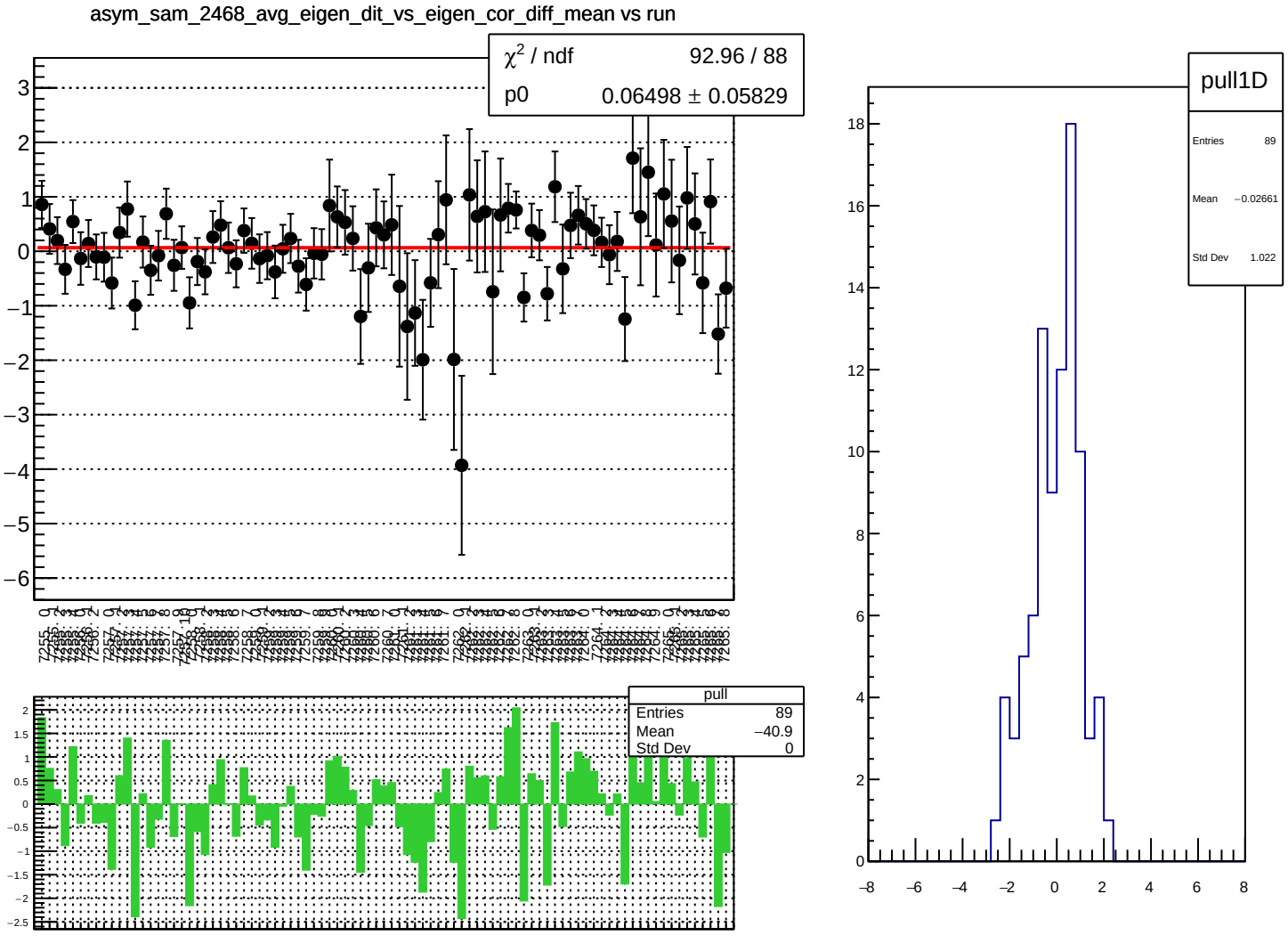

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.79 / 88
p0 1.663e−06 ± 2.91e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 85.44
Std Dev 69.08
3
2
1
0
−1
−2

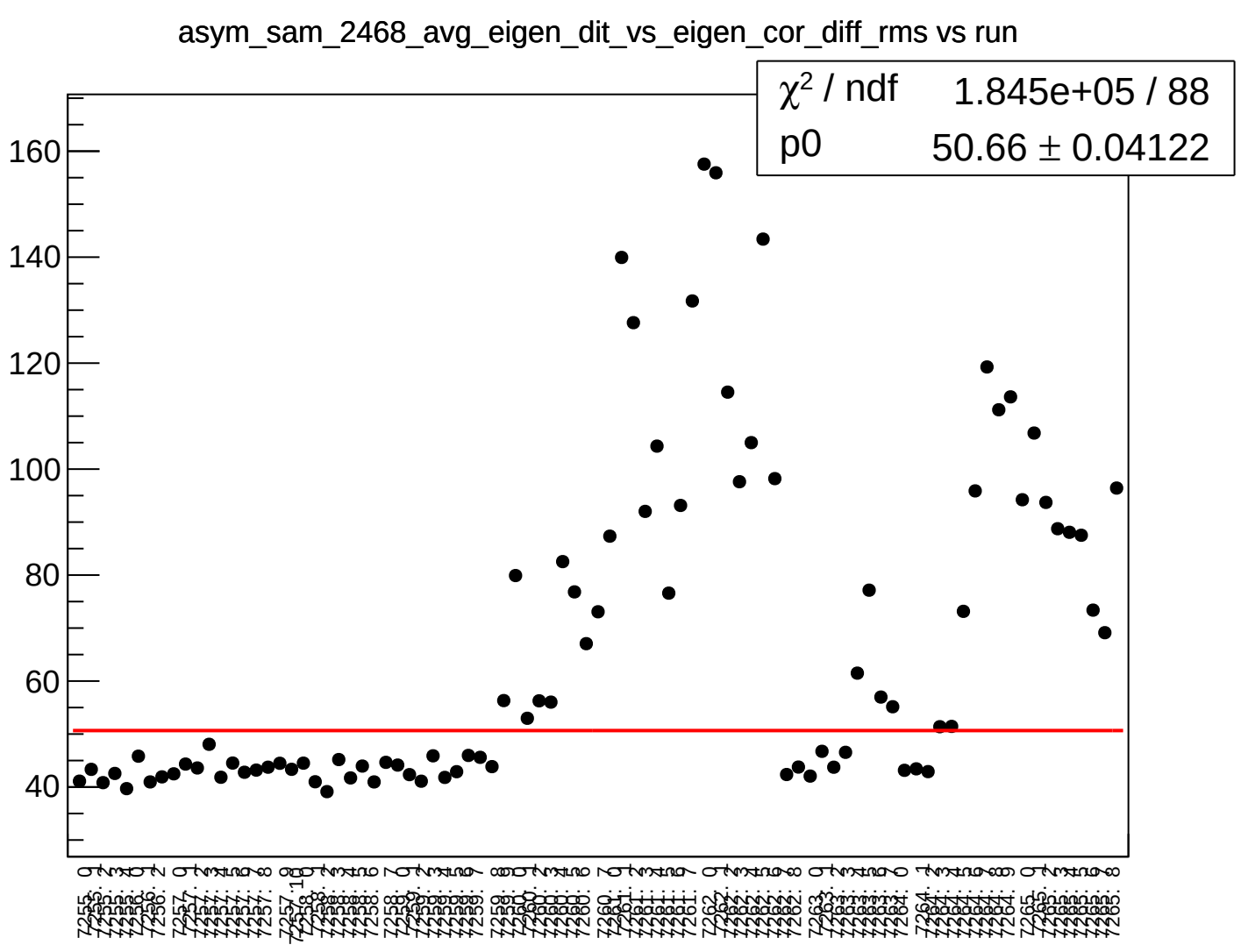

pull1D
Entries 89
Mean 0.0109
Std Dev 0.9644
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

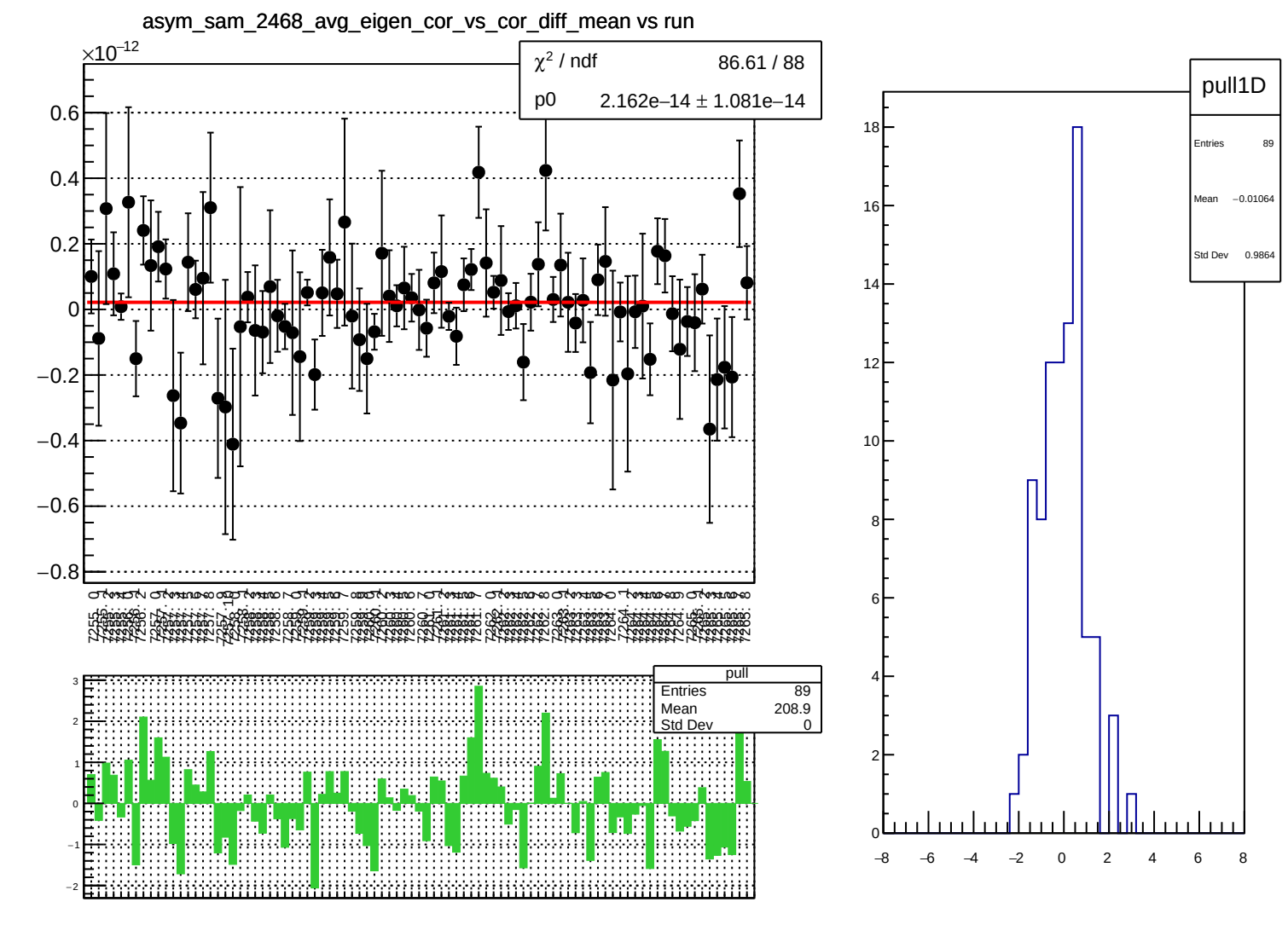

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5844 / 88
p0 0.002674 ± 2.058e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024

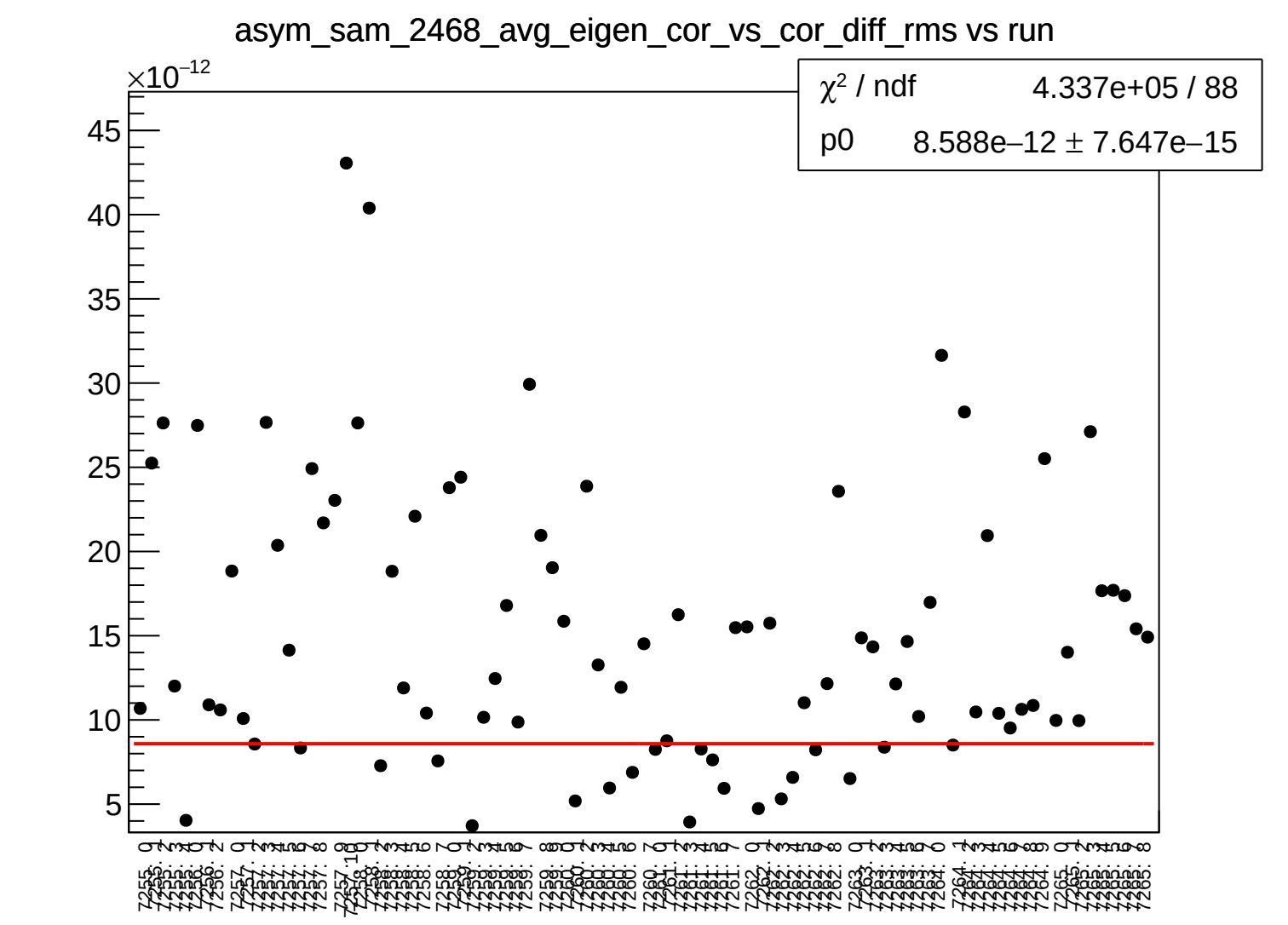

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.96 / 88
p0 0.06498 ± 0.05829
pull
Entries 89
Mean −40.9
Std Dev 0
pull1D
Entries 89
Mean −0.02661
Std Dev 1.022

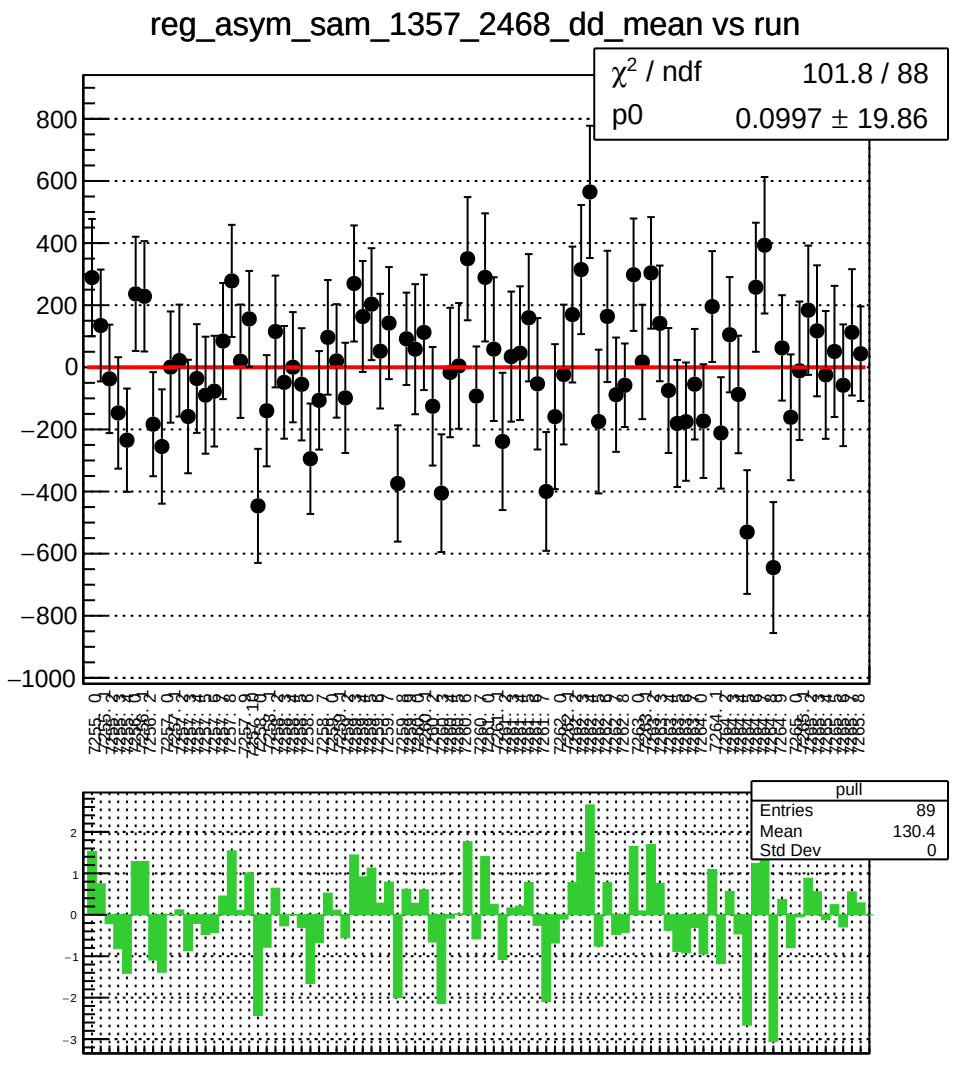

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.845e+05 / 88
p0 50.66 ± 0.04122
160
140
120
100
80
60
40

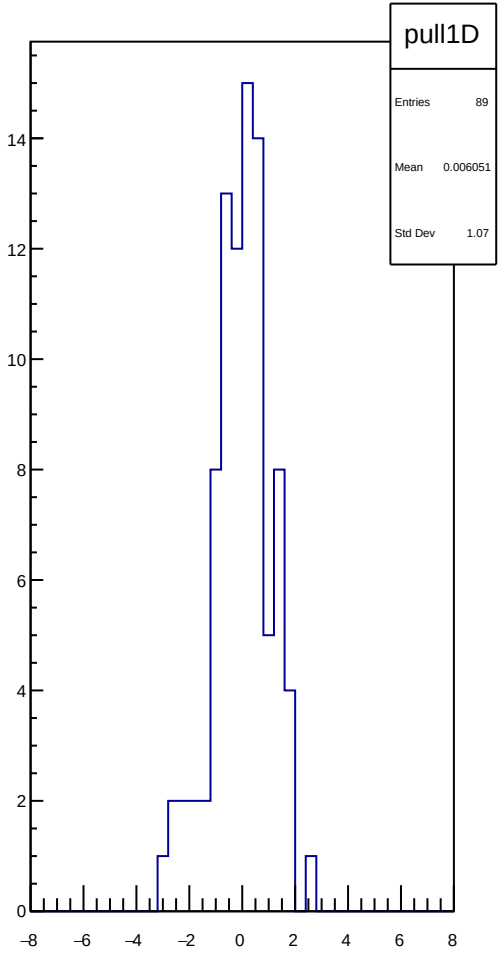

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.96 / 88
p0 0.06498 ± 0.05829
pull
Entries 89
Mean −40.9
Std Dev 0
pull1D
Entries 89
Mean −0.02661
Std Dev 1.022

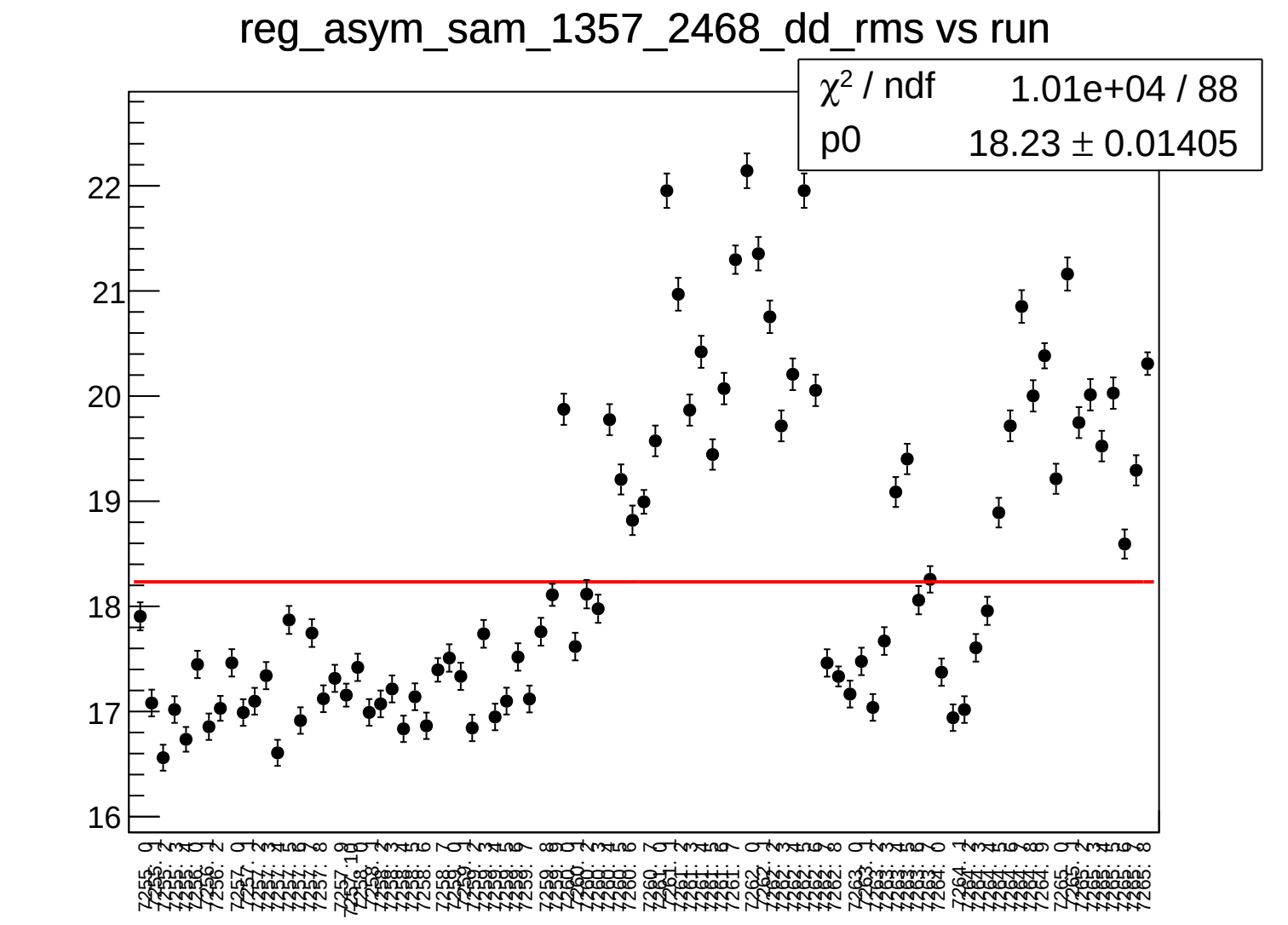

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.845e+05 / 88
p0 50.66 ± 0.04122
160
140
120
100
80
60
40

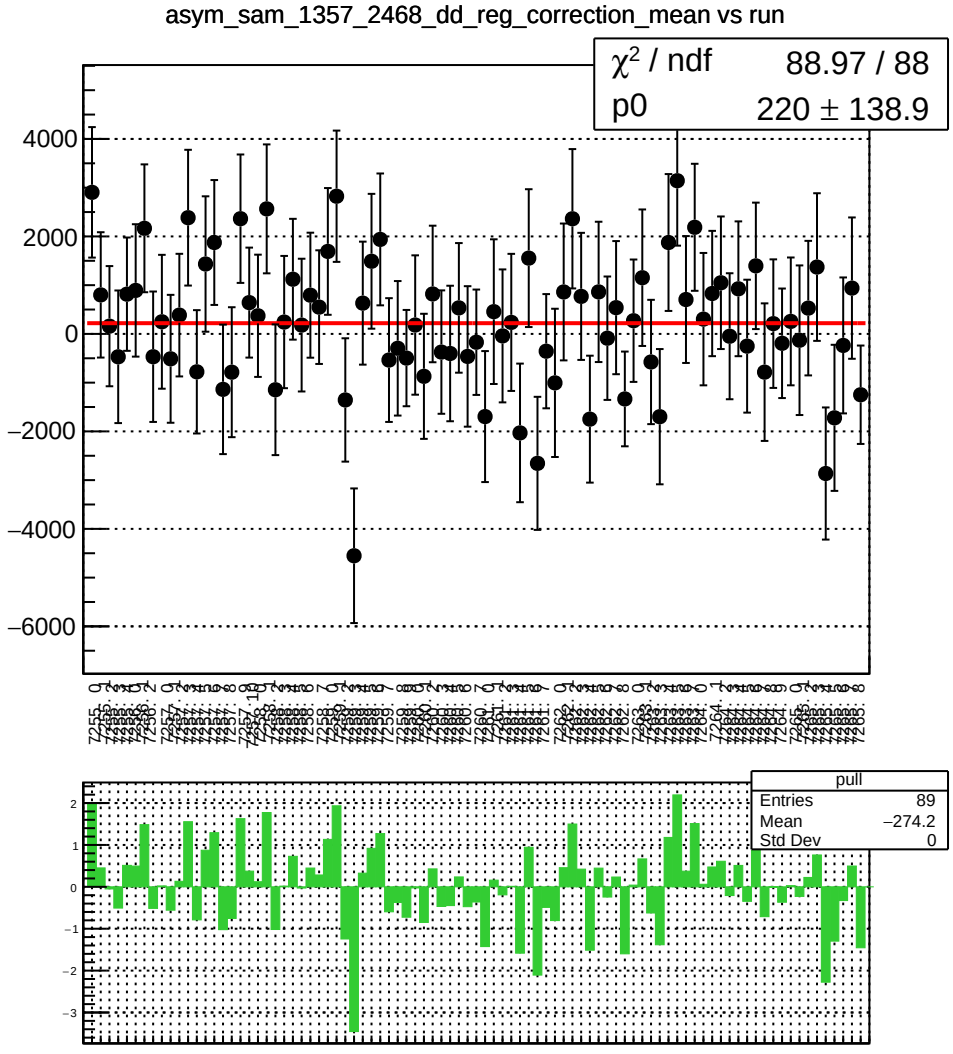

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.61 / 88
p0 2.162e−14 ± 1.081e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 89
Mean 208.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01064
Std Dev 0.9864
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

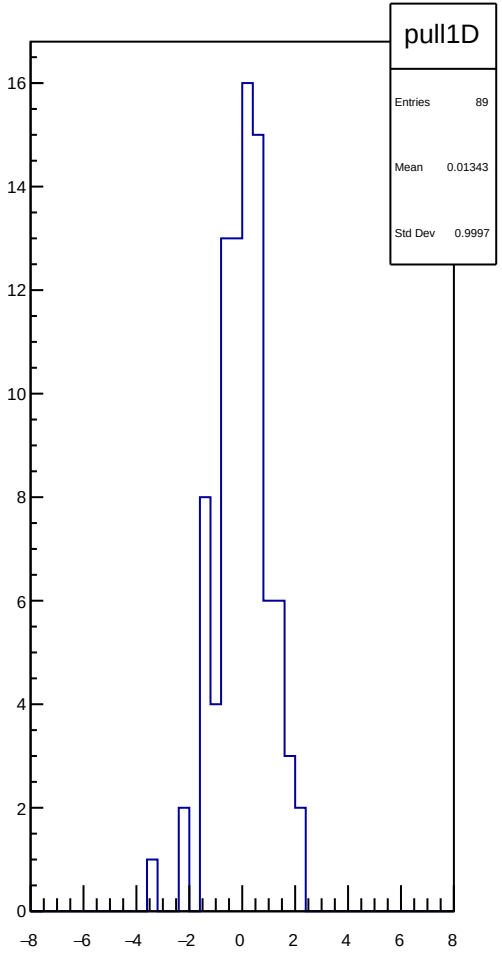

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.337e+05 / 88
p0 8.588e−12 ± 7.647e−15
45
40
35
30
25
20
15
10
5

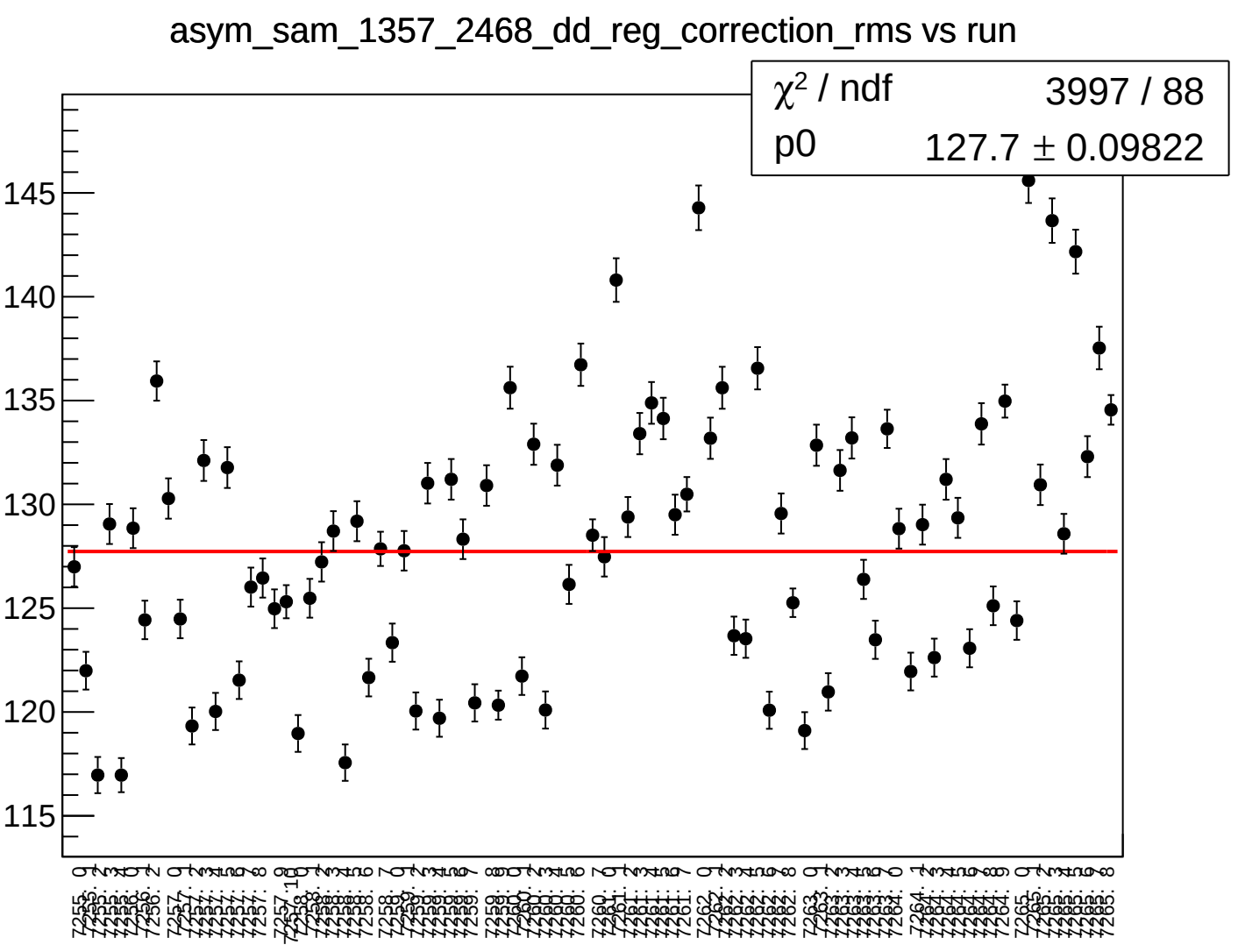

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 101.8 / 88
p0 0.0997 ± 19.86
pull
Entries 89
Mean 130.4
Std Dev 0

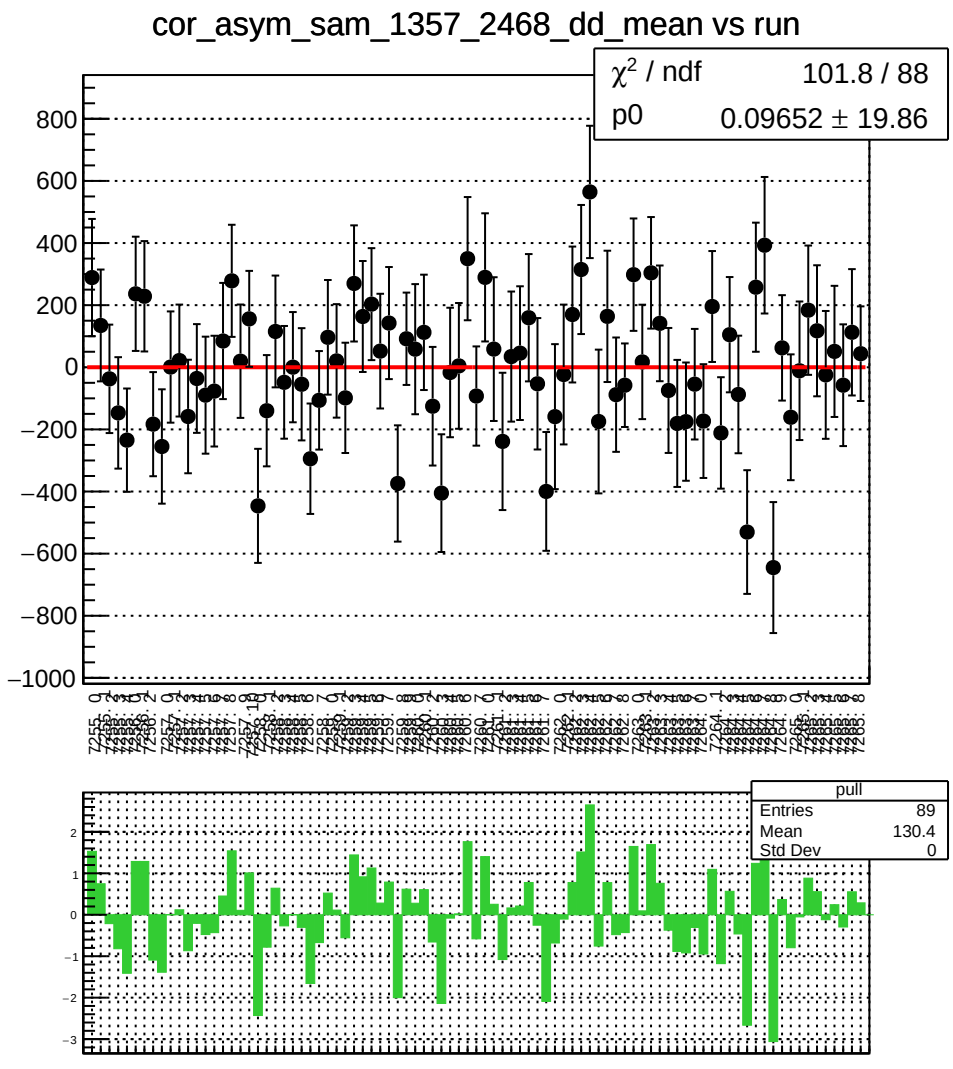

pull1D
Entries 89
Mean 0.006051
Std Dev 1.07

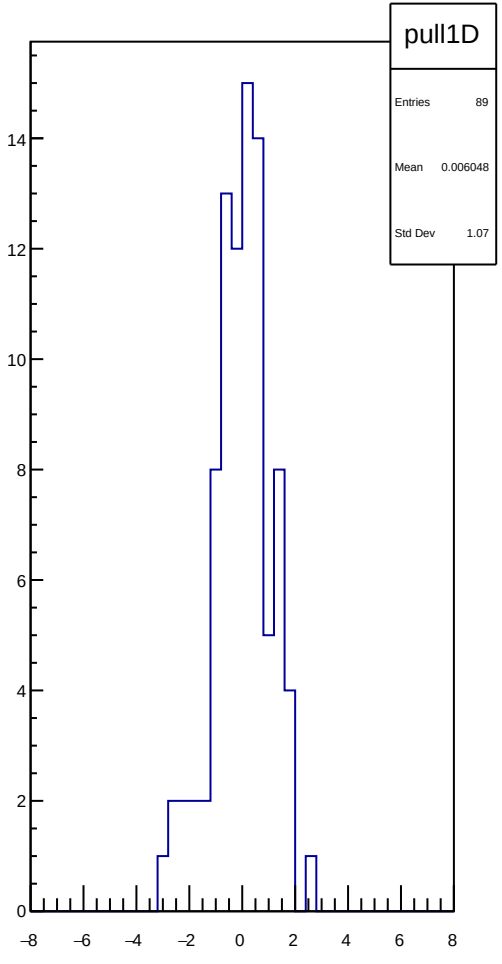

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.01e+04 / 88
p0 18.23 ± 0.01405
22
21
20
19
18
17
16

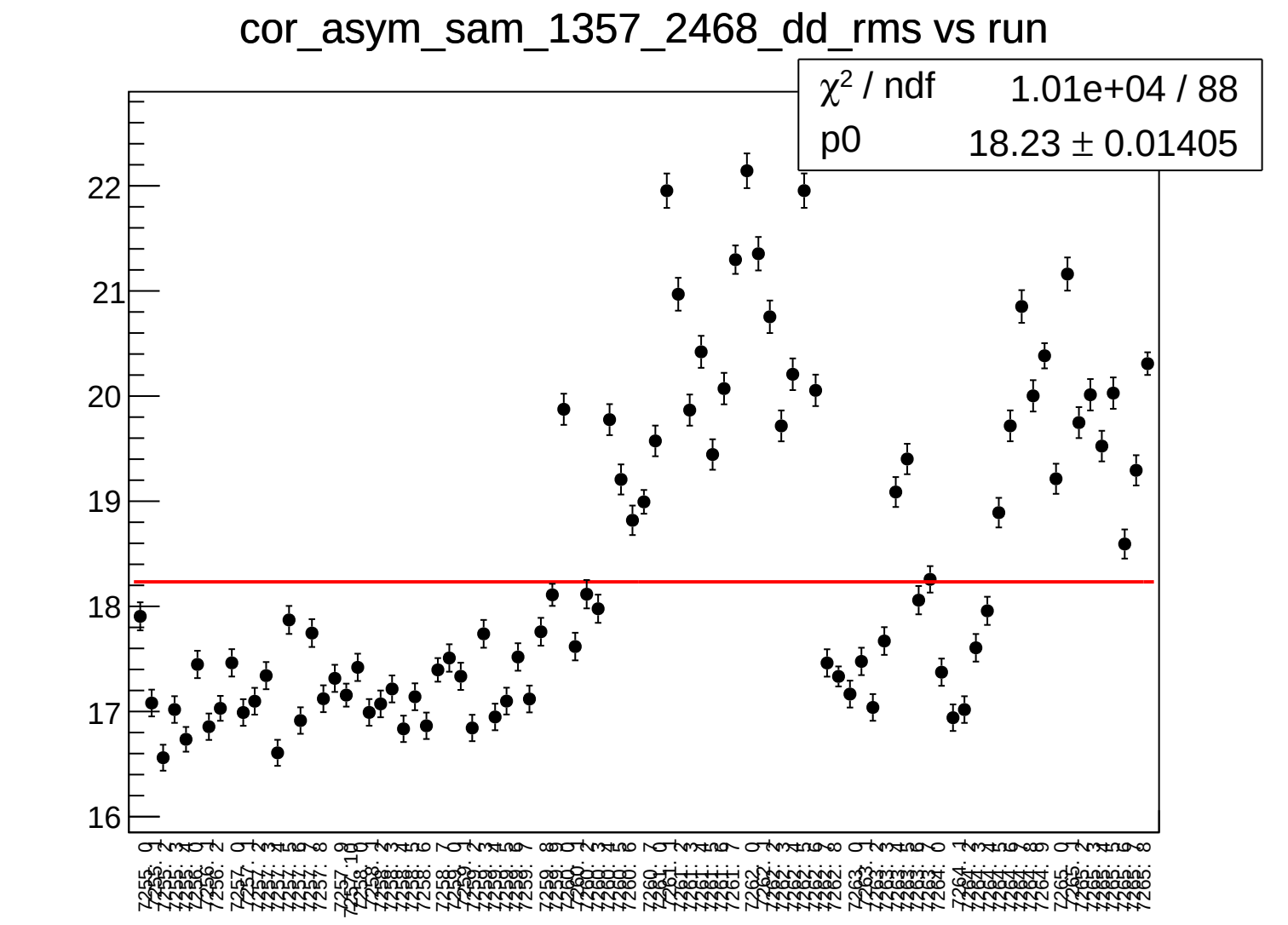

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 88.97 / 88
p0 220 ± 138.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −274.2
Std Dev 0
2
1
0
−1
−2
−3

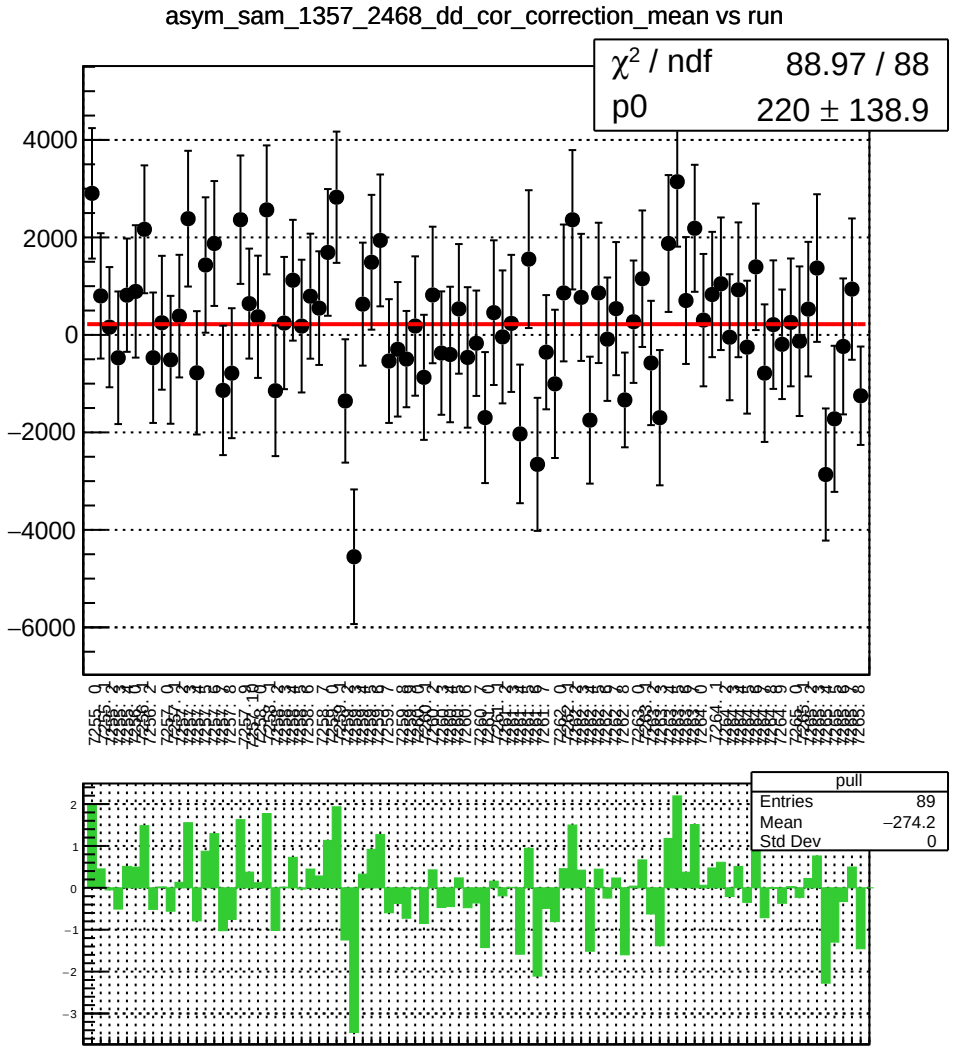

pull1D
Entries 89
Mean 0.01343
Std Dev 0.9997
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

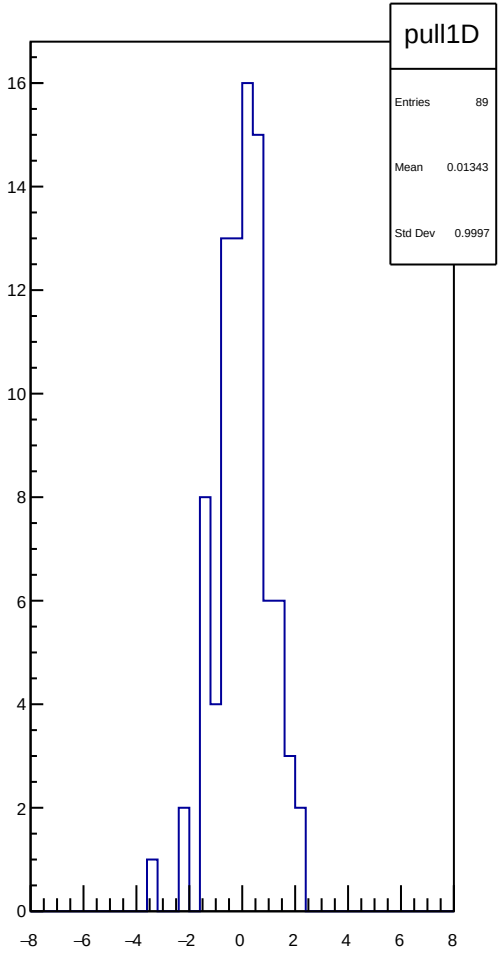

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 3997 / 88
p0 127.7 ± 0.09822
145
140
135
130
125
120
115

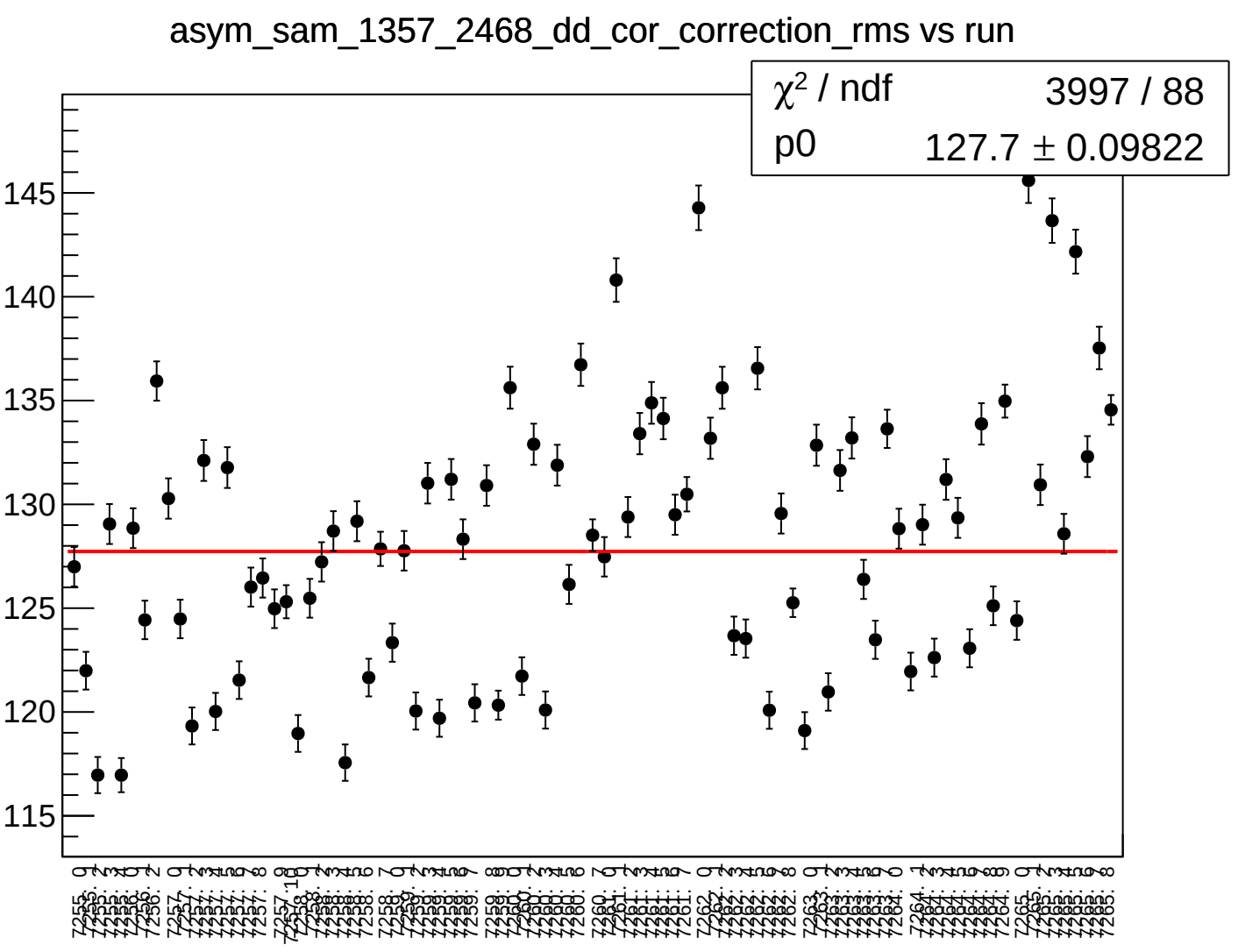

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 101.8 / 88
p0 0.09652 ± 19.86
pull
Entries 89
Mean 130.4
Std Dev 0

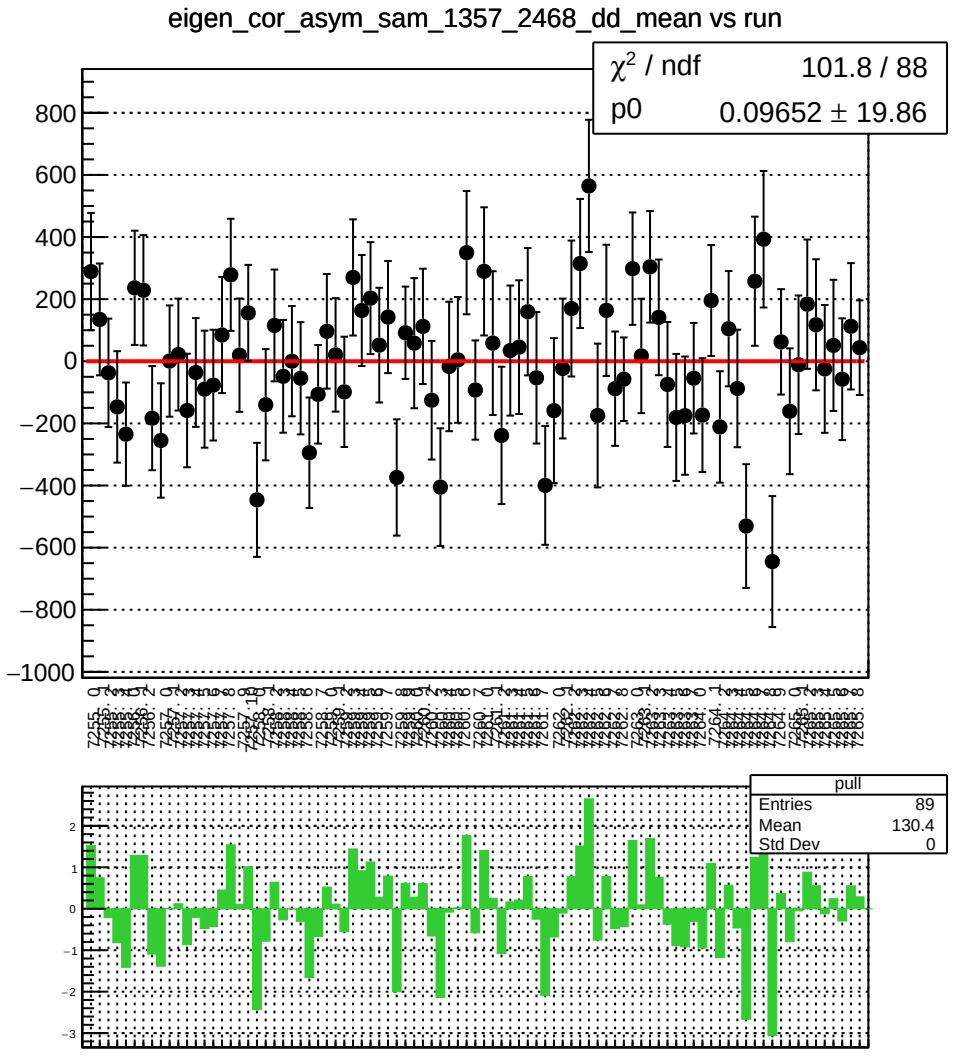

pull1D
Entries 89
Mean 0.006048
Std Dev 1.07

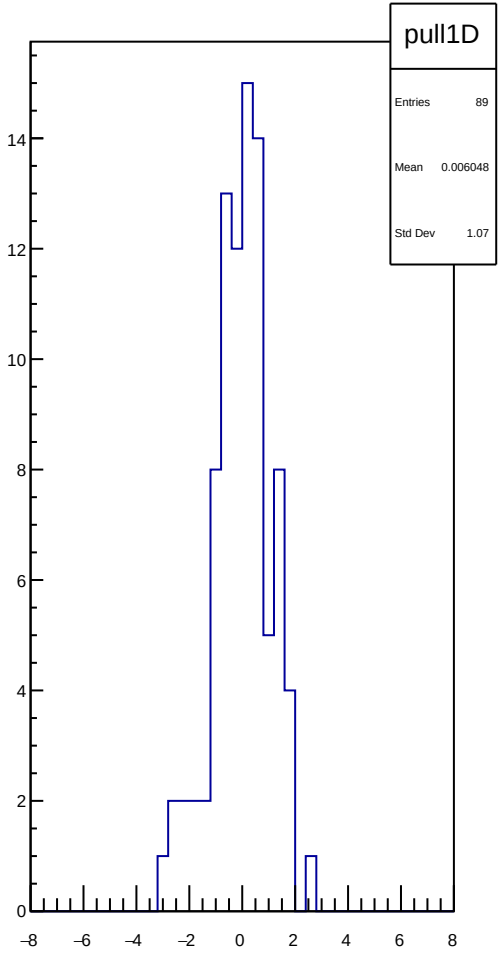

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.01e+04 / 88
p0 18.23 ± 0.01405
22
21
20
19
18
17
16

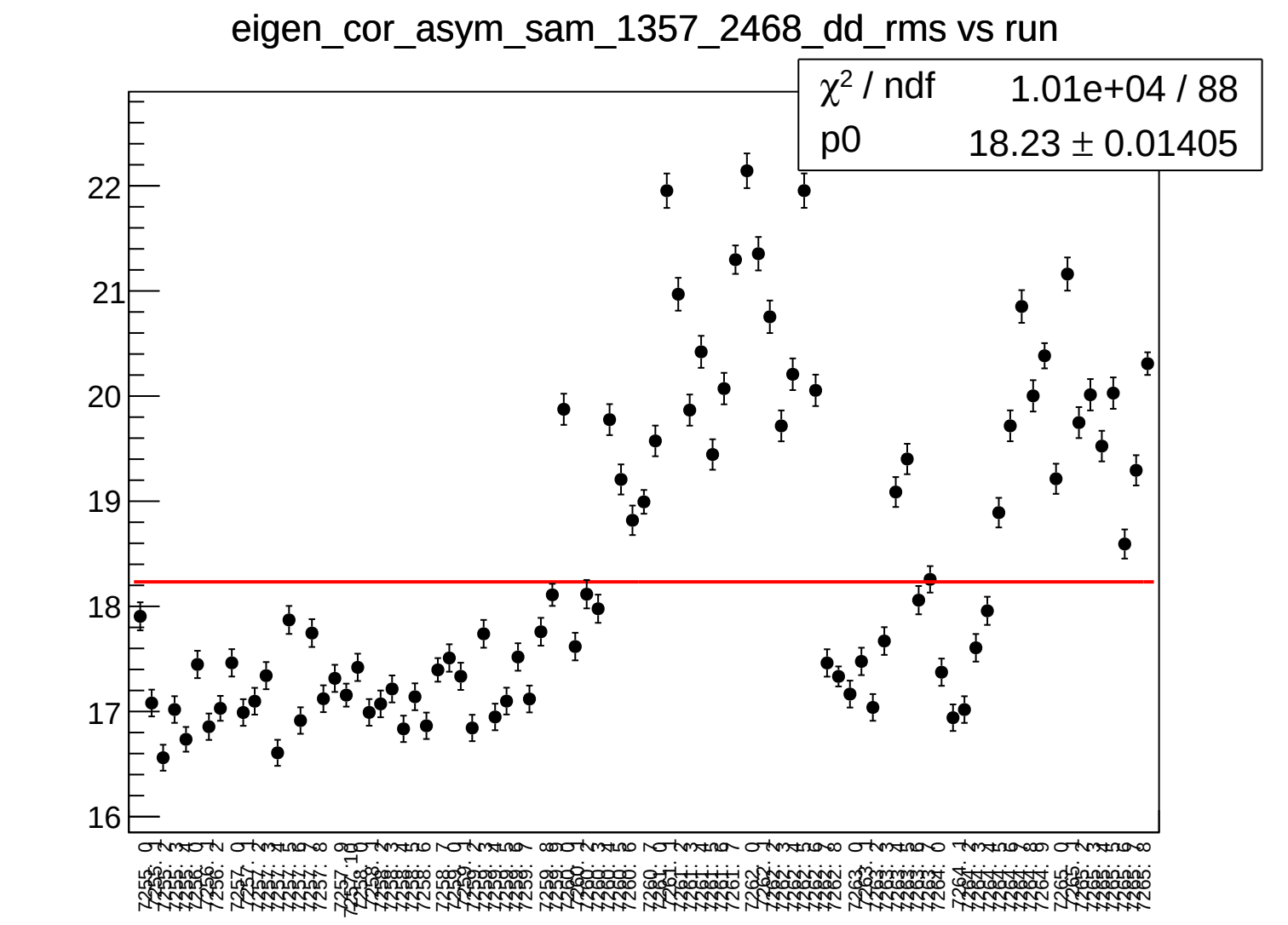

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 88.97 / 88
p0 220 ± 138.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −274.2
Std Dev 0
2
1
0
−1
−2
−3

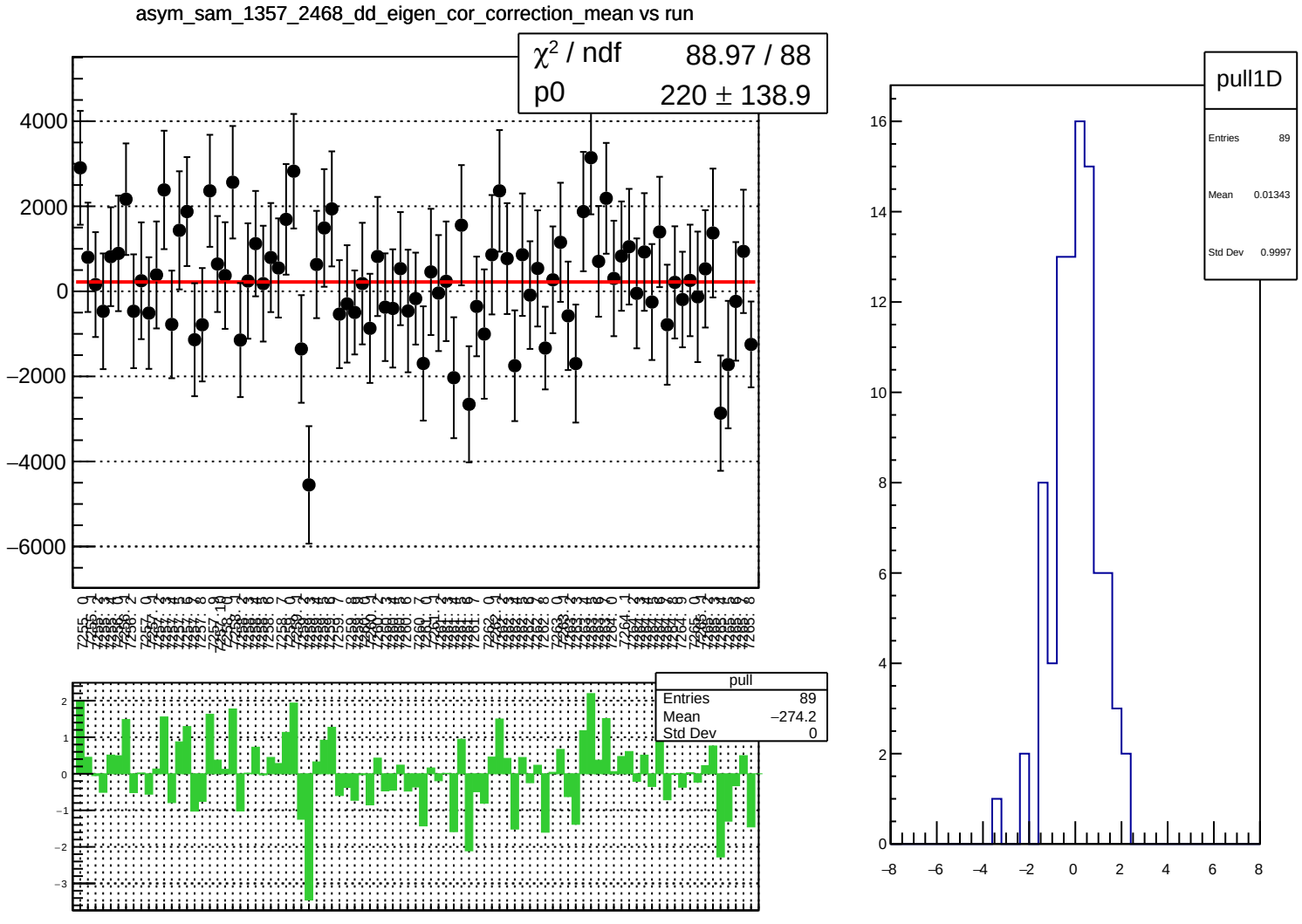

pull1D
Entries 89
Mean 0.01343
Std Dev 0.9997
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

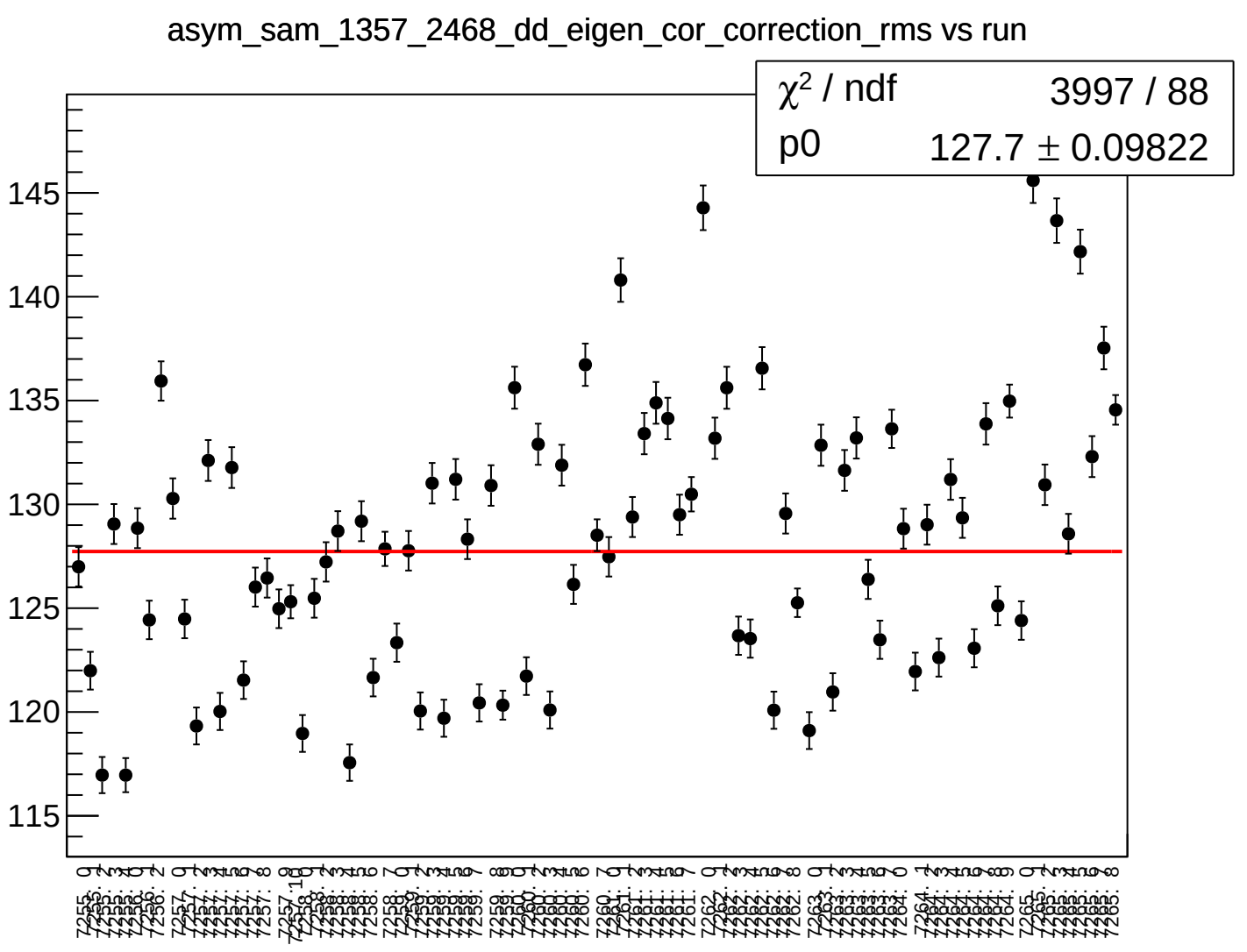

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 3997 / 88
p0 127.7 ± 0.09822
145
140
135
130
125
120
115

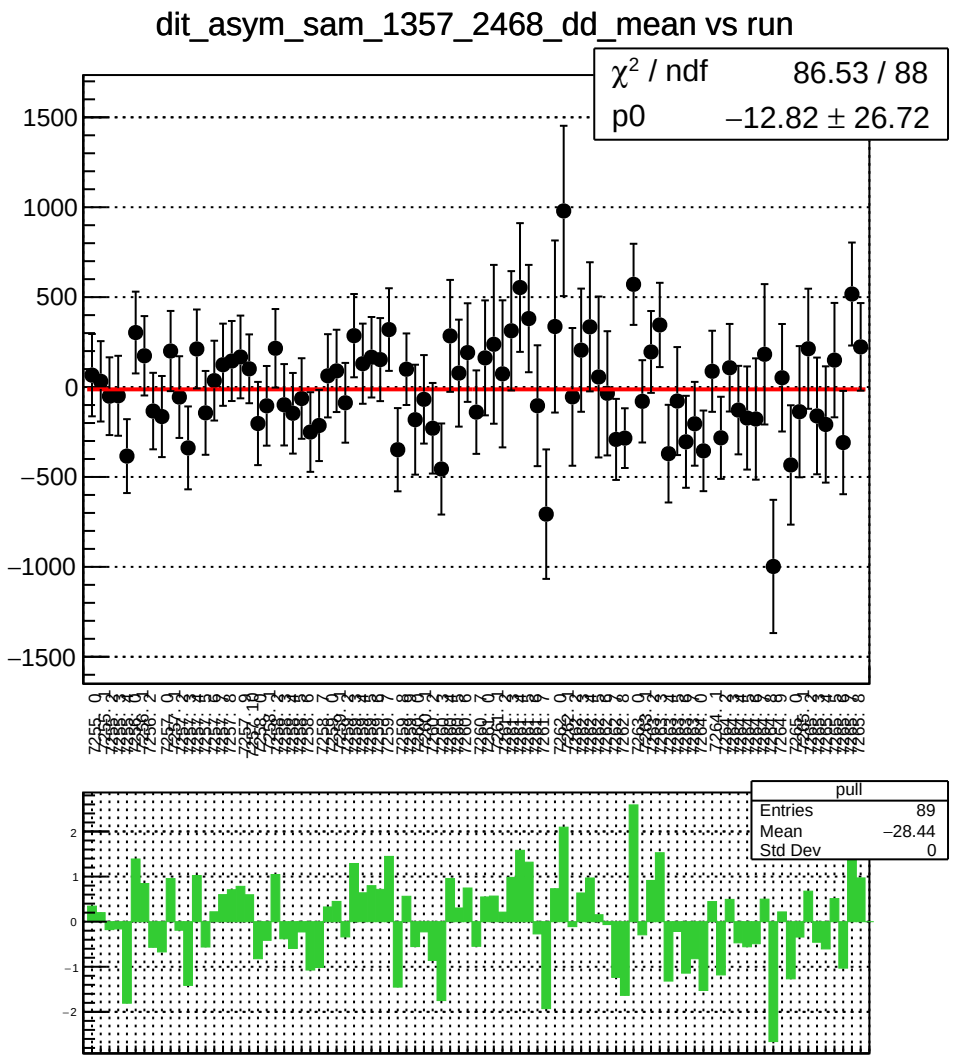

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 101.8 / 88
p0 0.09652 ± 19.86
pull
Entries 89
Mean 130.4
Std Dev 0

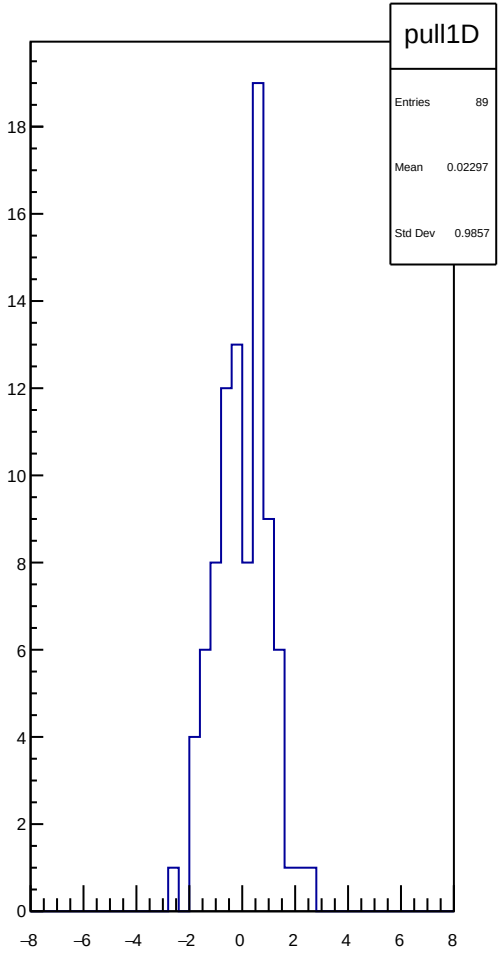

pull1D
Entries 89
Mean 0.006048
Std Dev 1.07

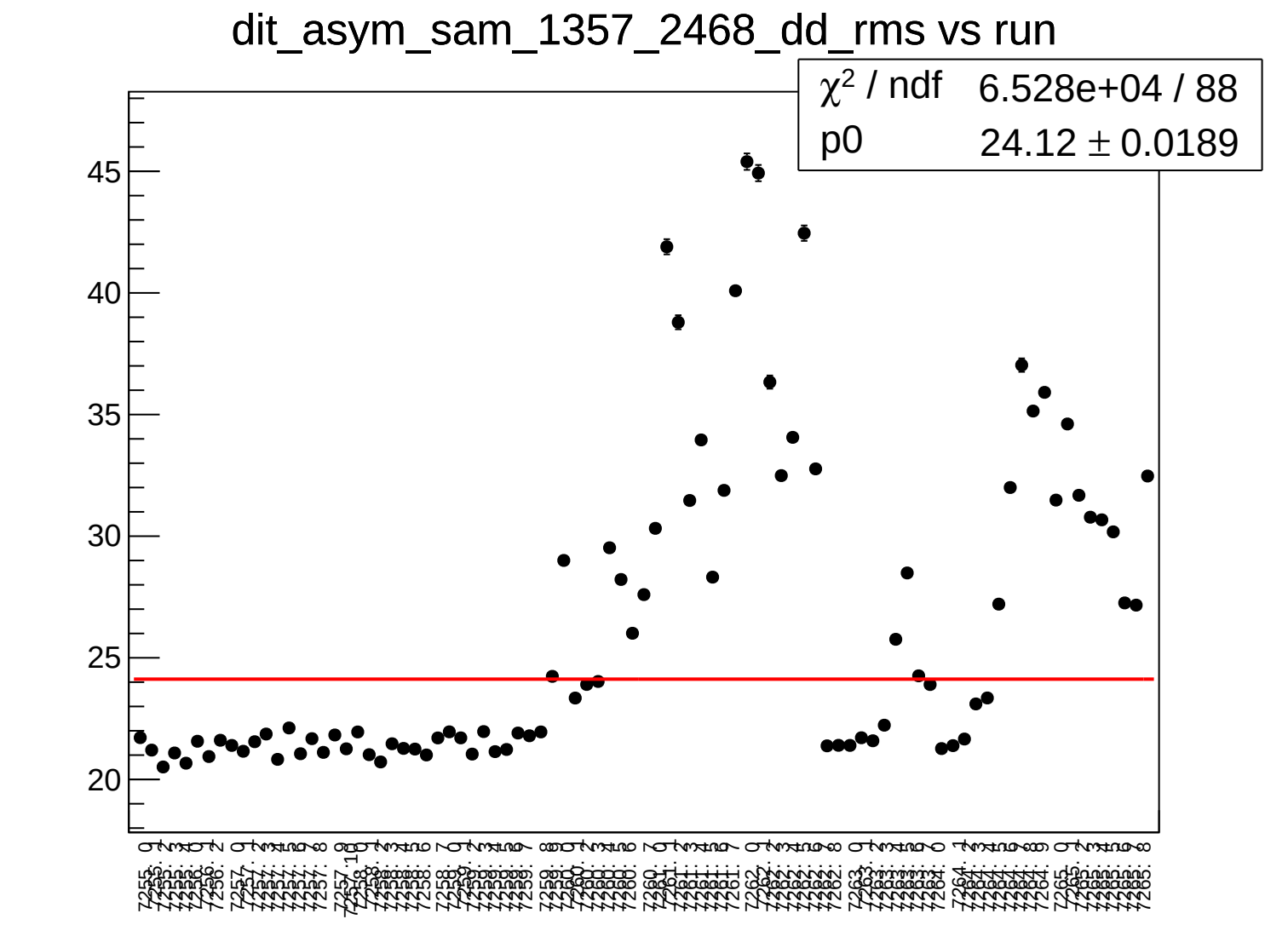

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.01e+04 / 88
p0 18.23 ± 0.01405
22
21
20
19
18
17
16

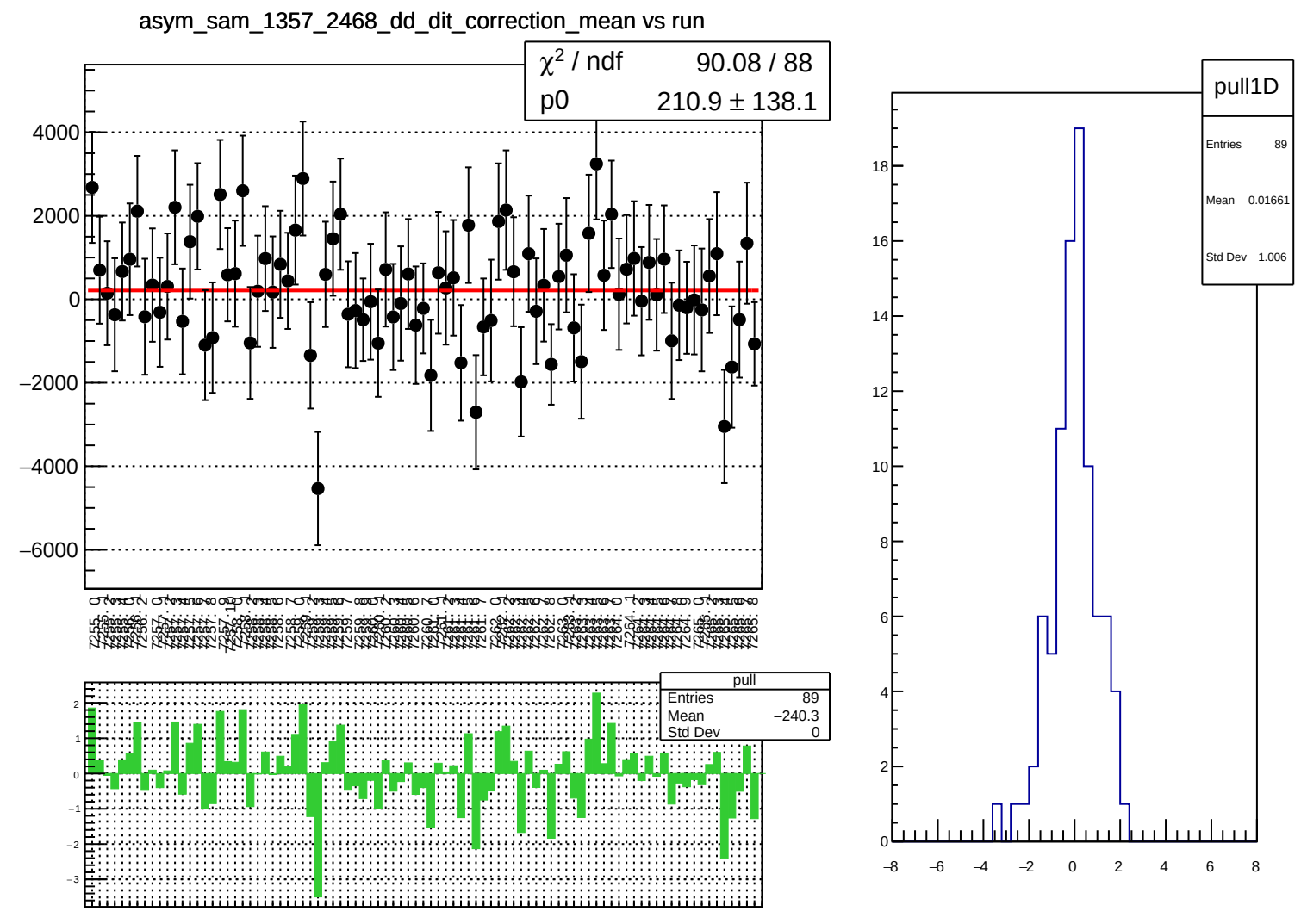

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.97 / 88
p0 220 ± 138.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −274.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.01343
Std Dev 0.9997
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

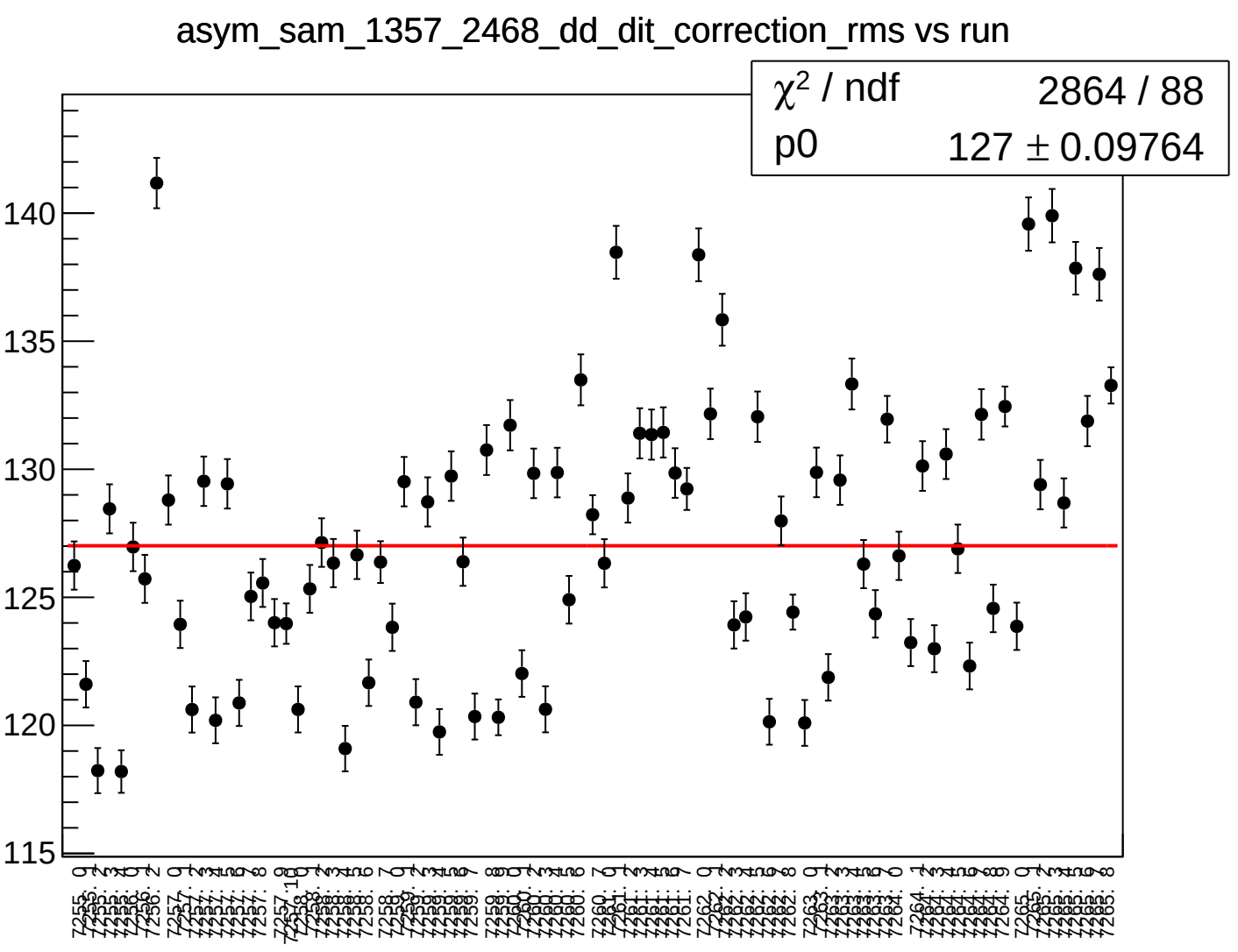

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 3997 / 88
p0 127.7 ± 0.09822
145
140
135
130
125
120
115

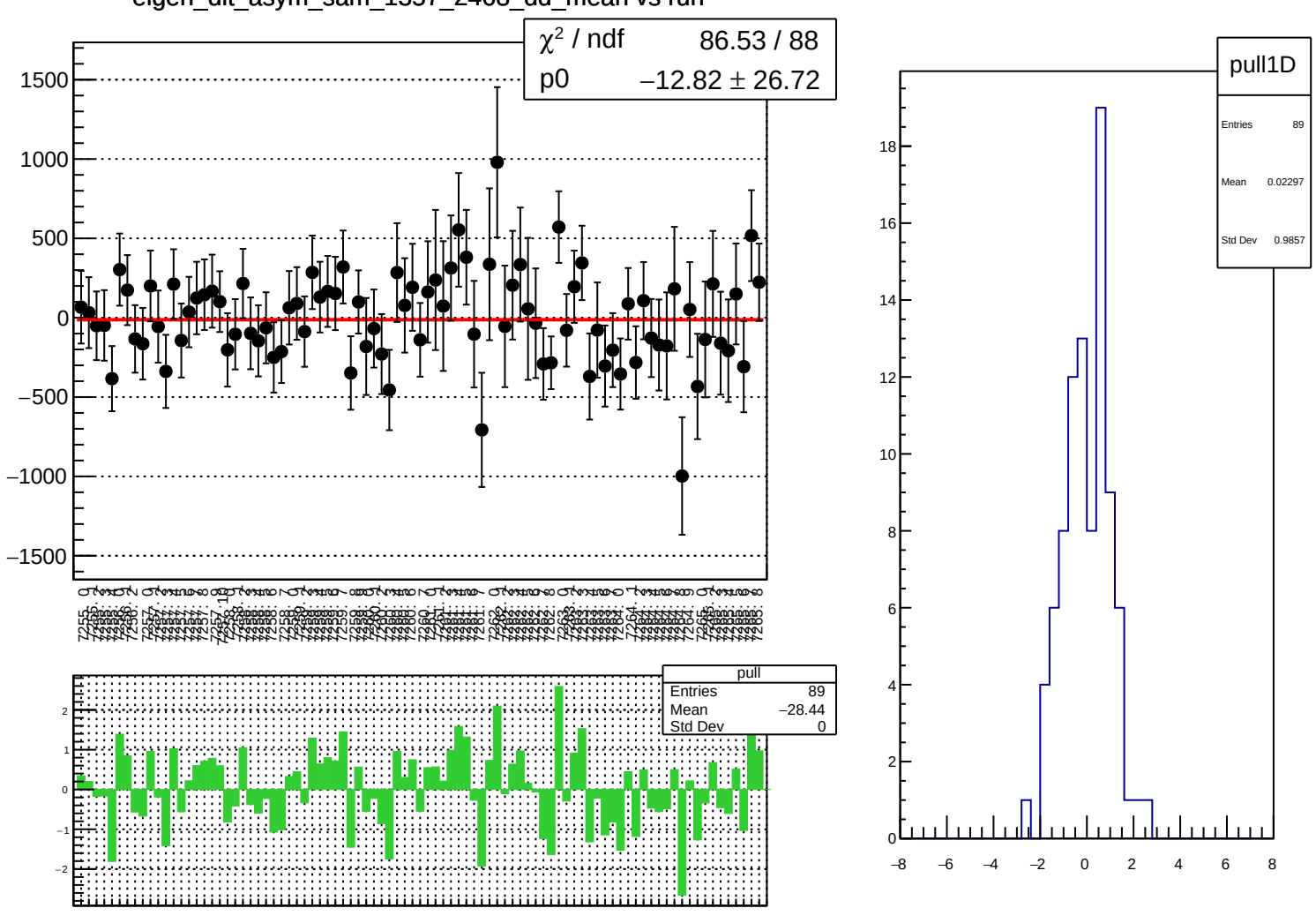

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 86.53 / 88
p0 −12.82 ± 26.72
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −28.44
Std Dev 0
2
1
0
−1
−2

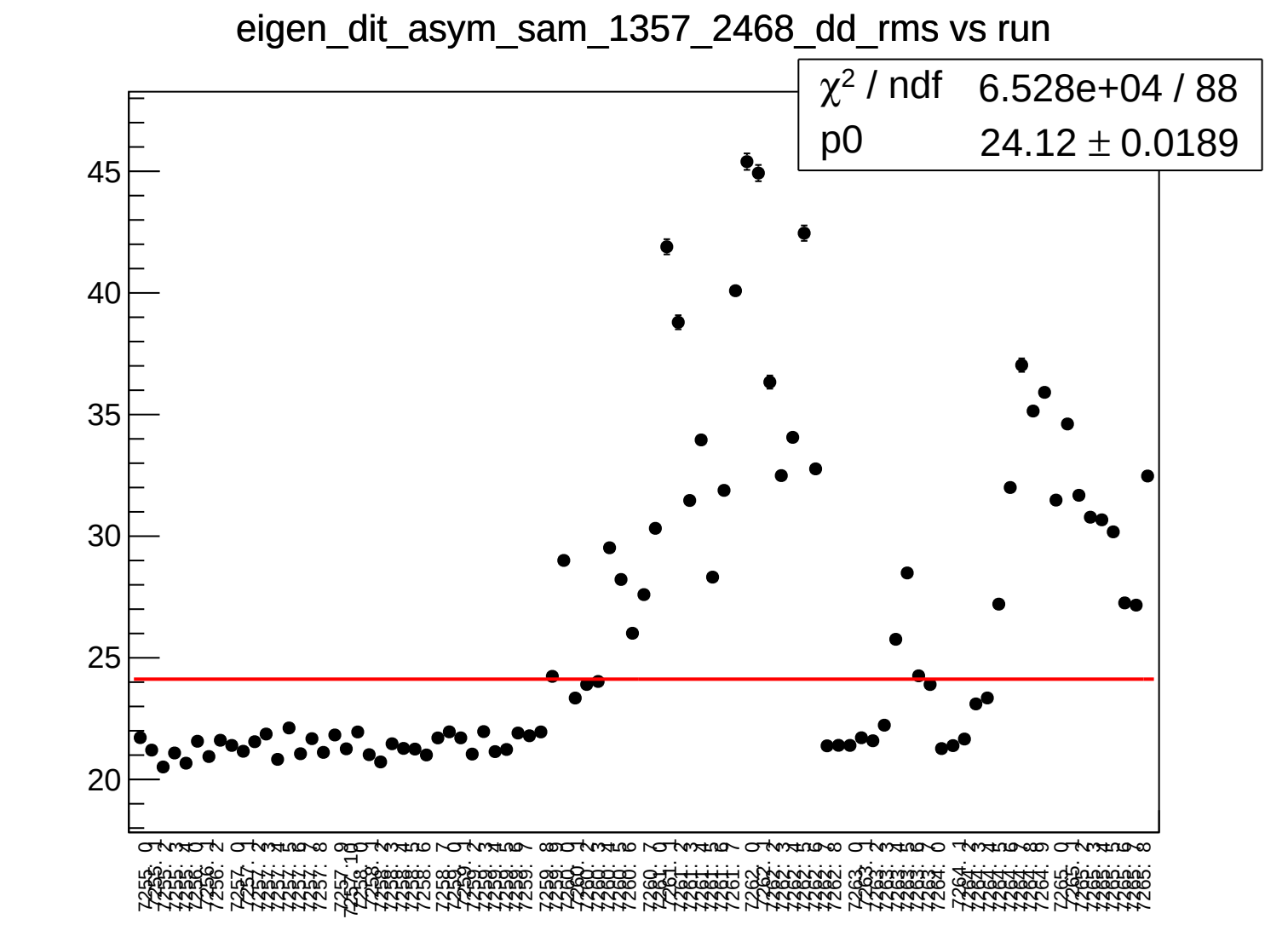

pull1D
Entries 89
Mean 0.02297
Std Dev 0.9857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

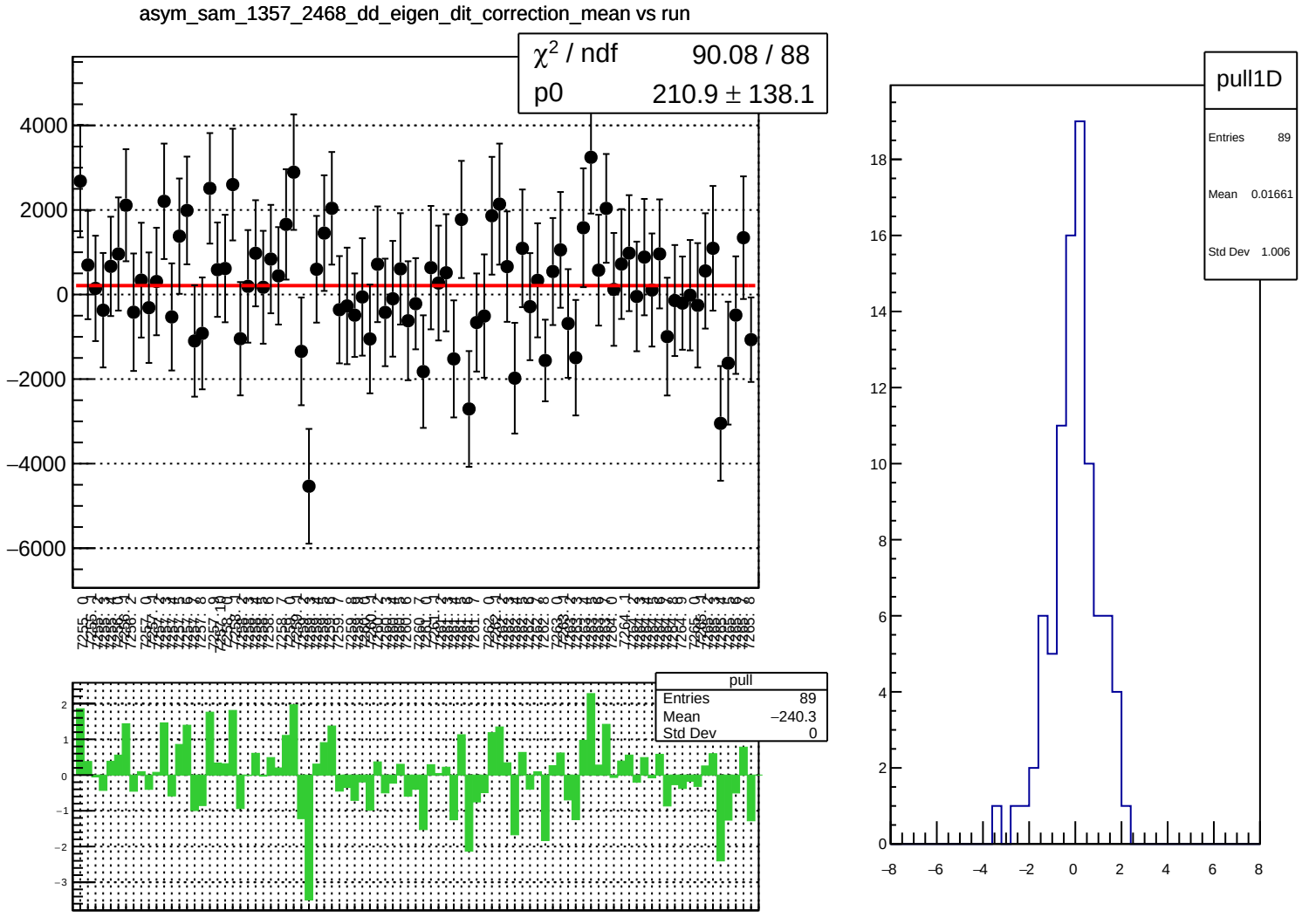

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6.528e+04 / 88
p0 24.12 ± 0.0189
45
40
35
30
25
20

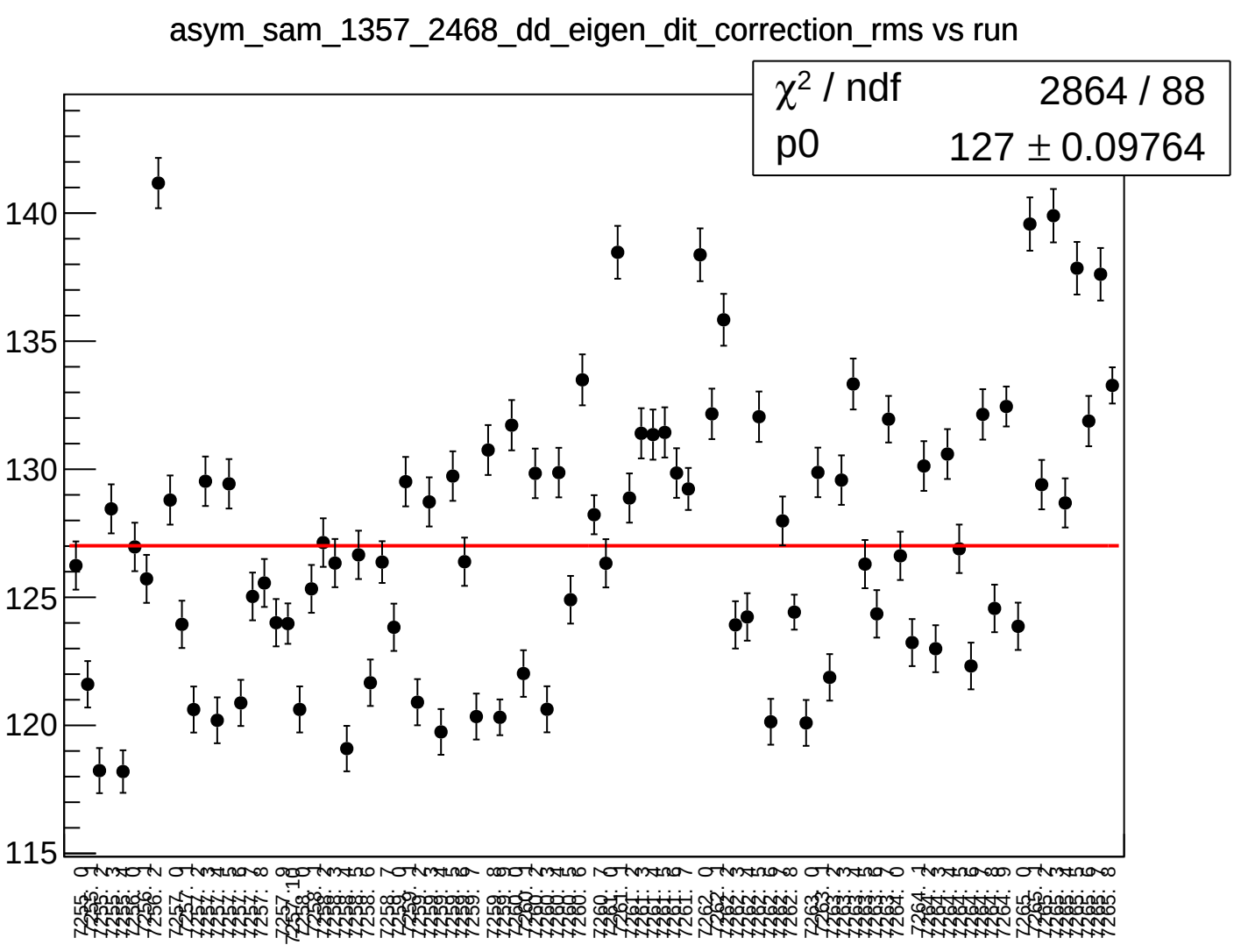

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 90.08 / 88
p0 210.9 ± 138.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −240.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.01661
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

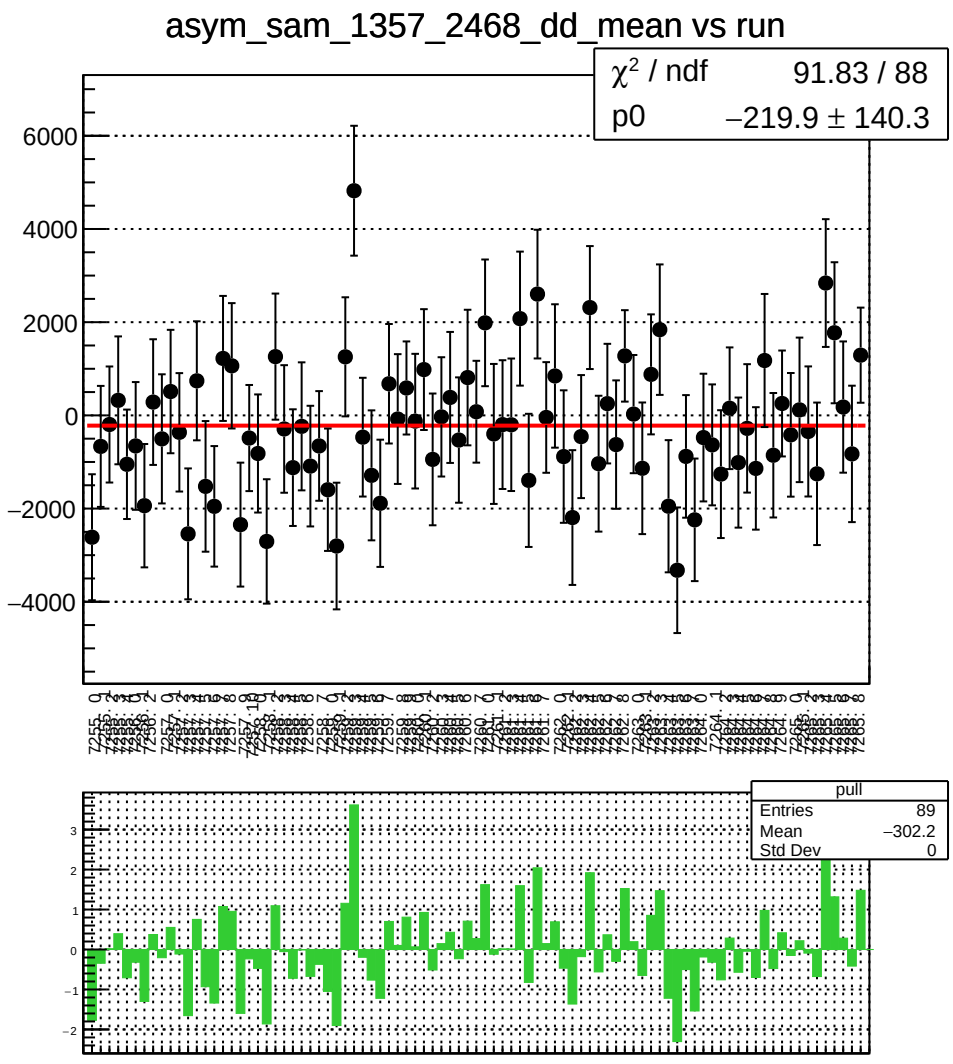

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 2864 / 88
p0 127 ± 0.09764
140
135
130
125
120
115

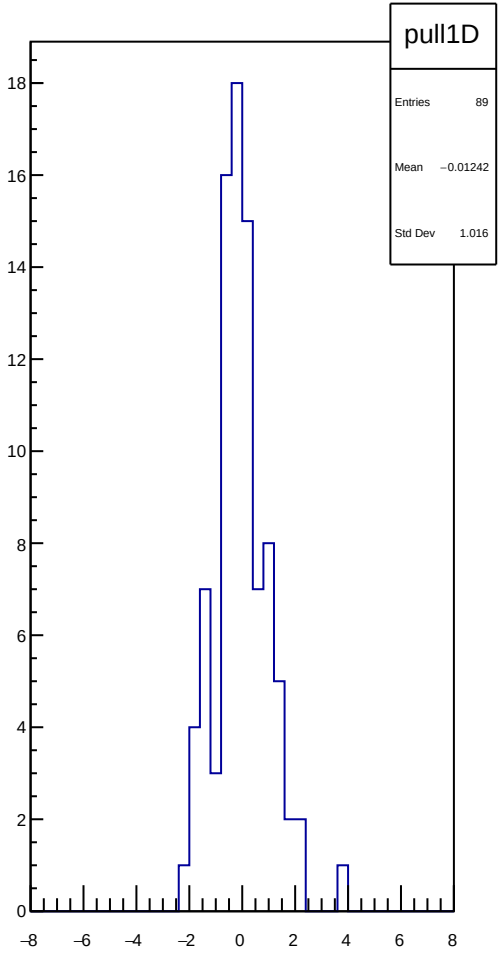

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 86.53 / 88
p0 −12.82 ± 26.72
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −28.44
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02297
Std Dev 0.9857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

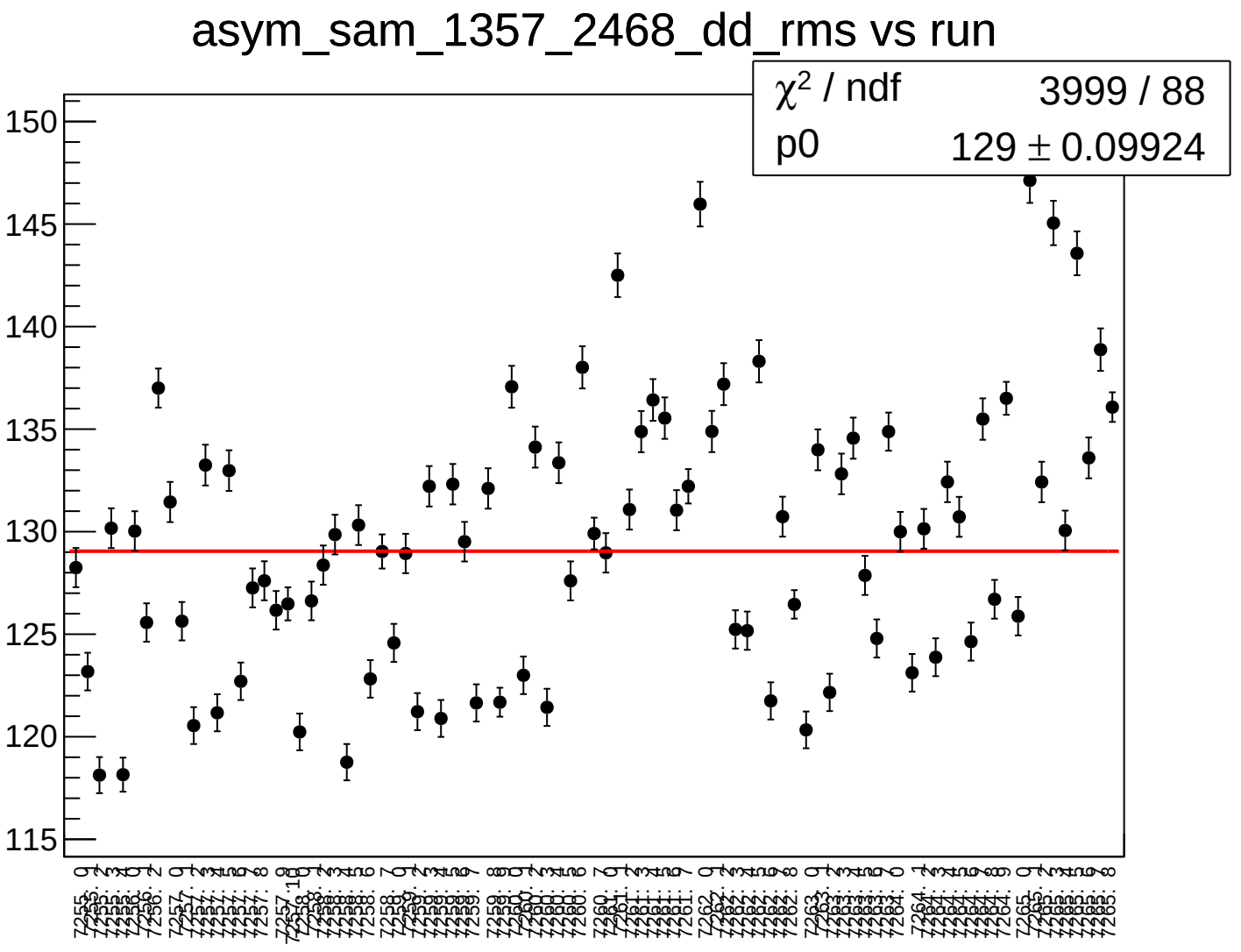

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6.528e+04 / 88
p0 24.12 ± 0.0189
45
40
35
30
25
20

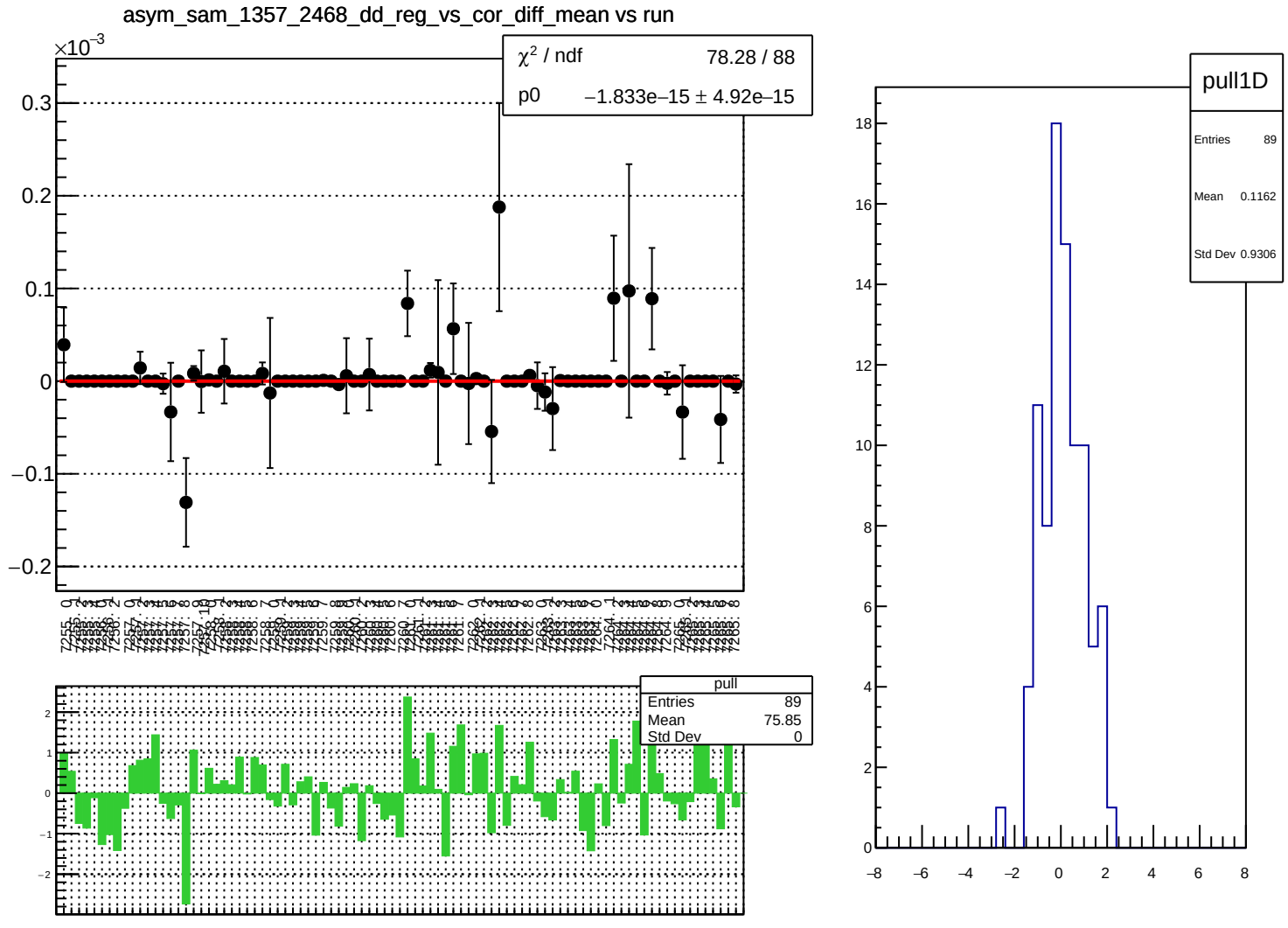

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.08 / 88
p0 210.9 ± 138.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −240.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.01661
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

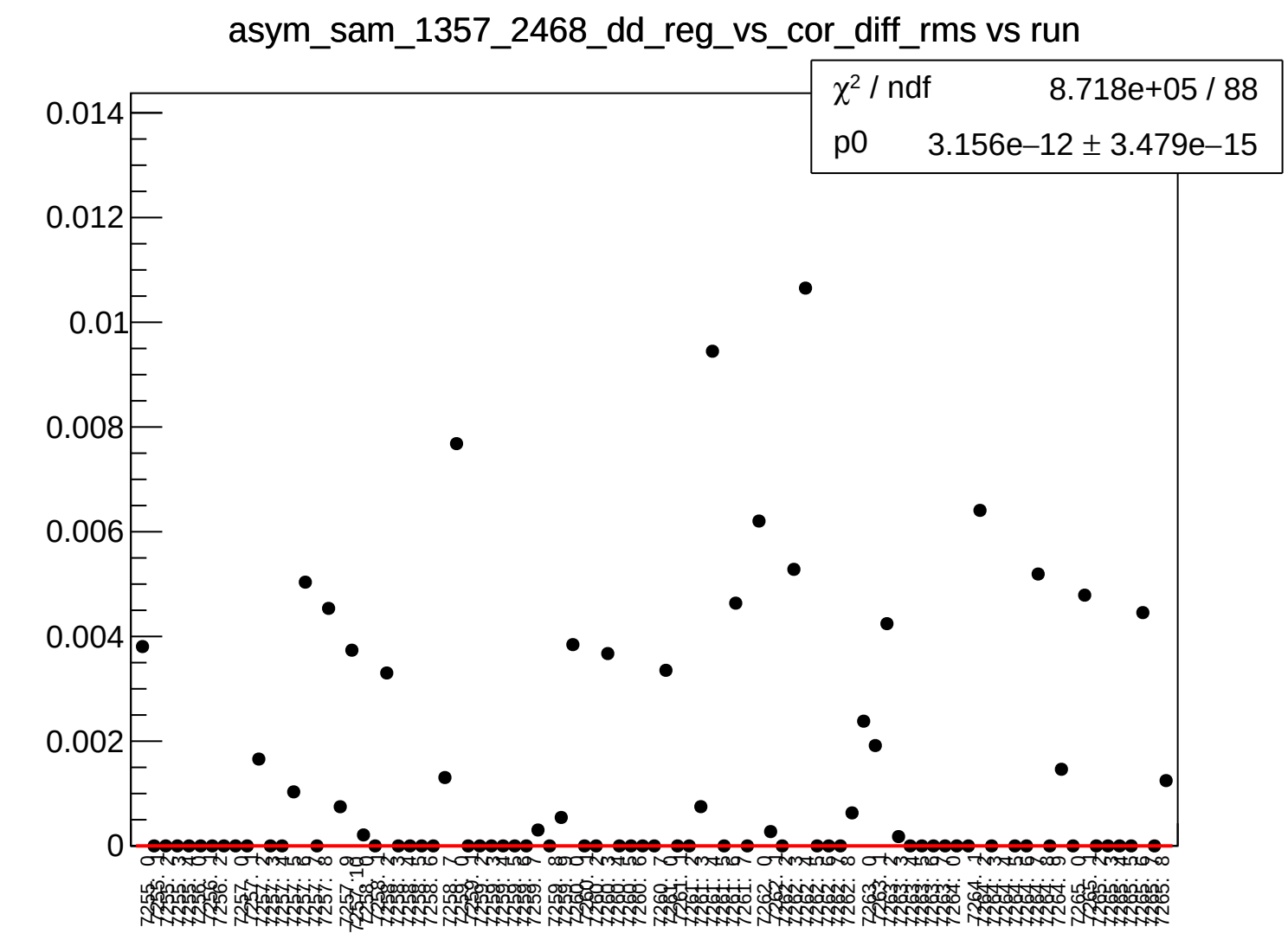

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 2864 / 88
p0 127 ± 0.09764
140
135
130
125
120
115

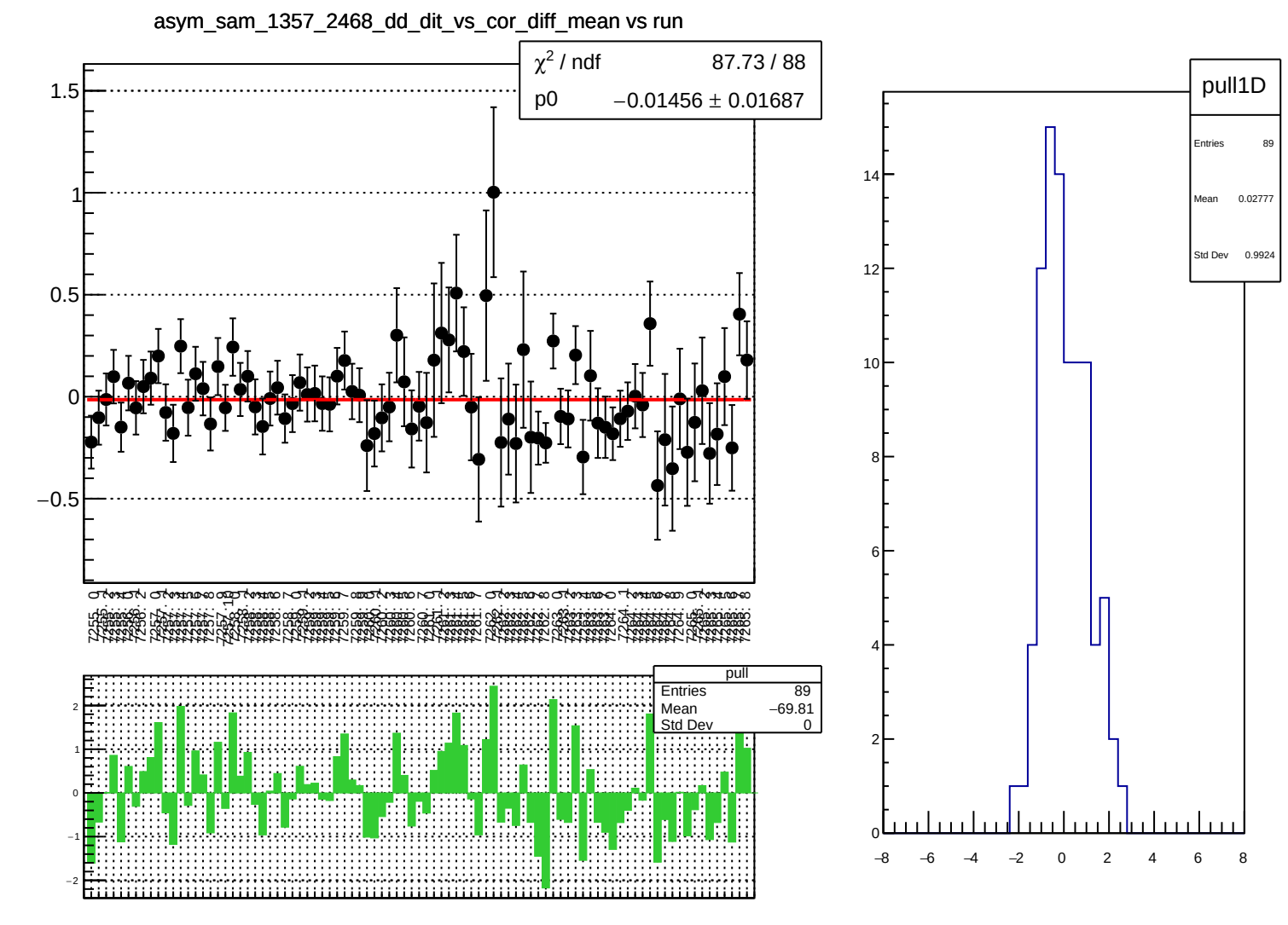

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 91.83 / 88
p0 −219.9 ± 140.3
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −302.2
Std Dev 0
3
2
1
0
−1
−2

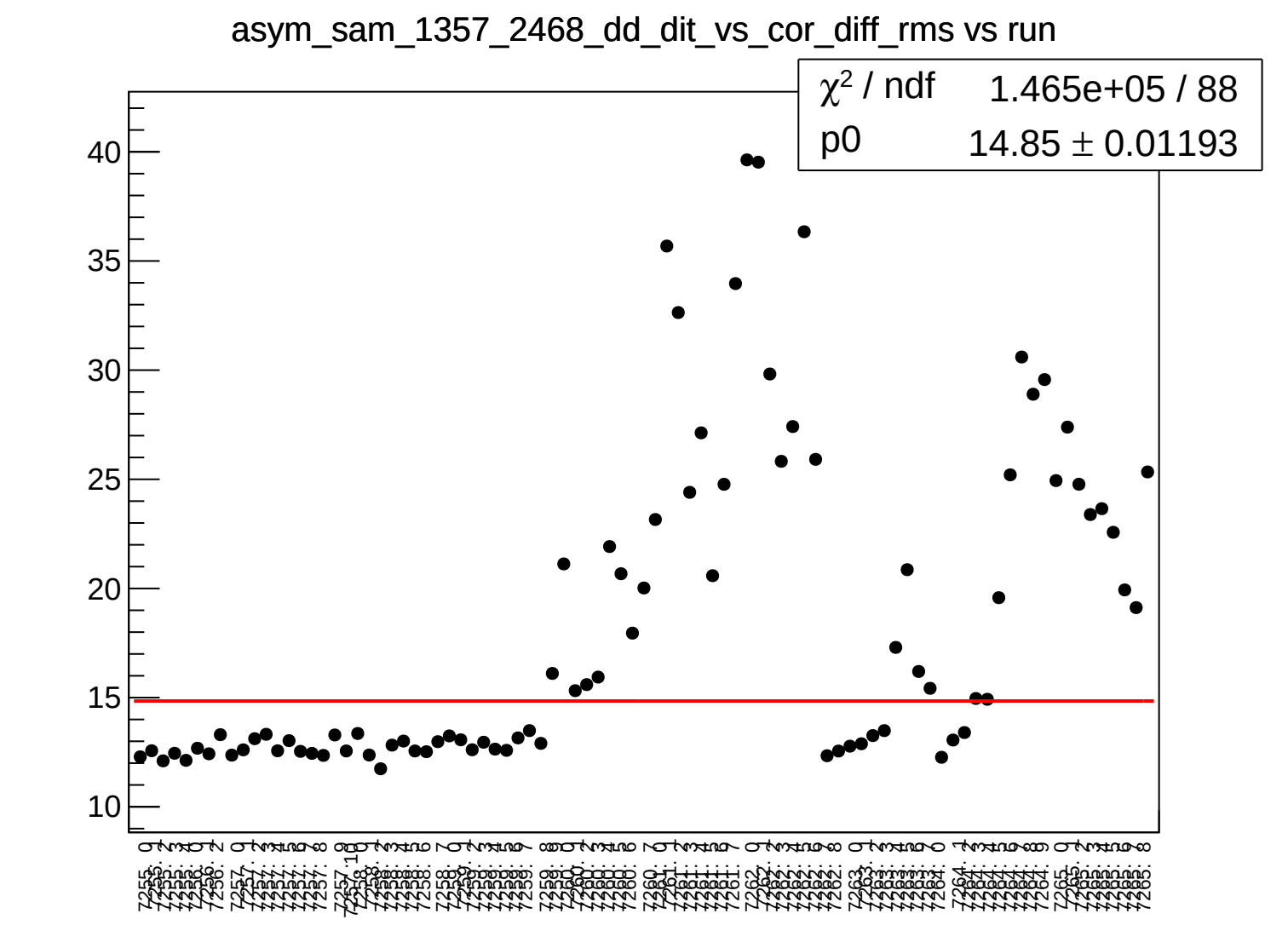

pull1D
Entries 89
Mean −0.01242
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

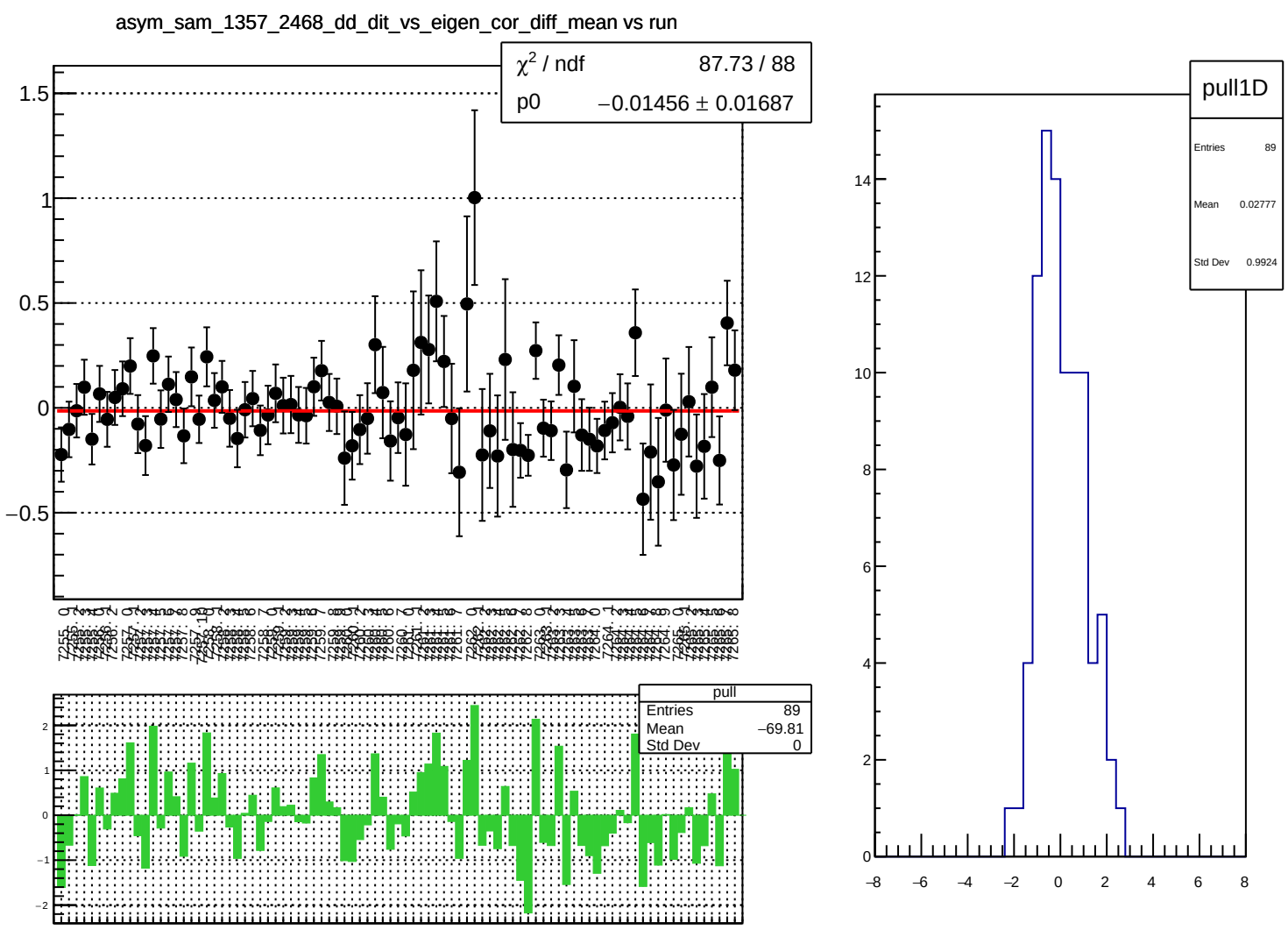

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3999 / 88
p0 129 ± 0.09924
150
145
140
135
130
125
120
115

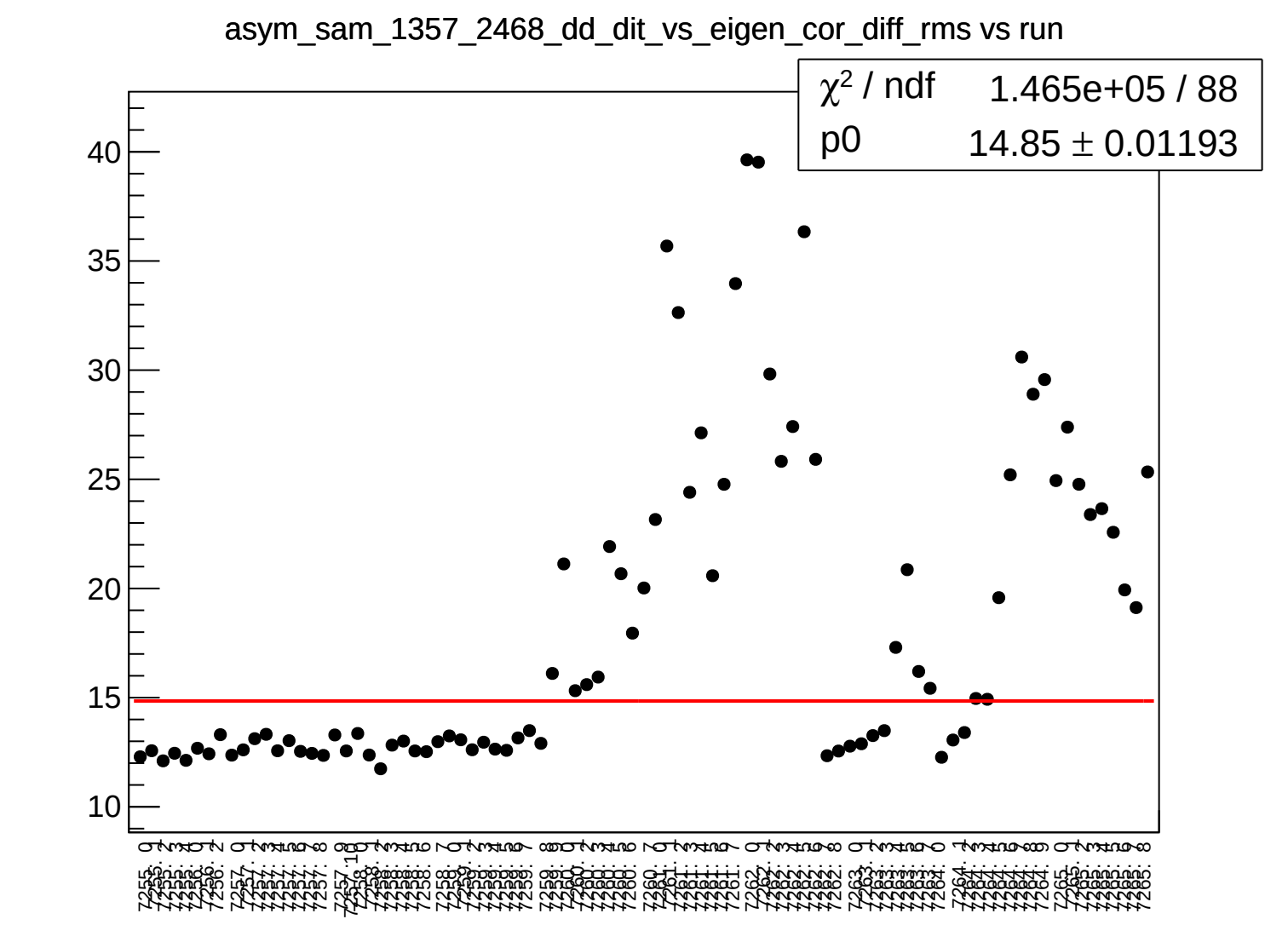

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 78.28 / 88
p0 −1.833e−15 ± 4.92e−15
pull
Entries 89
Mean 75.85
Std Dev 0
pull1D
Entries 89
Mean 0.1162
Std Dev 0.9306

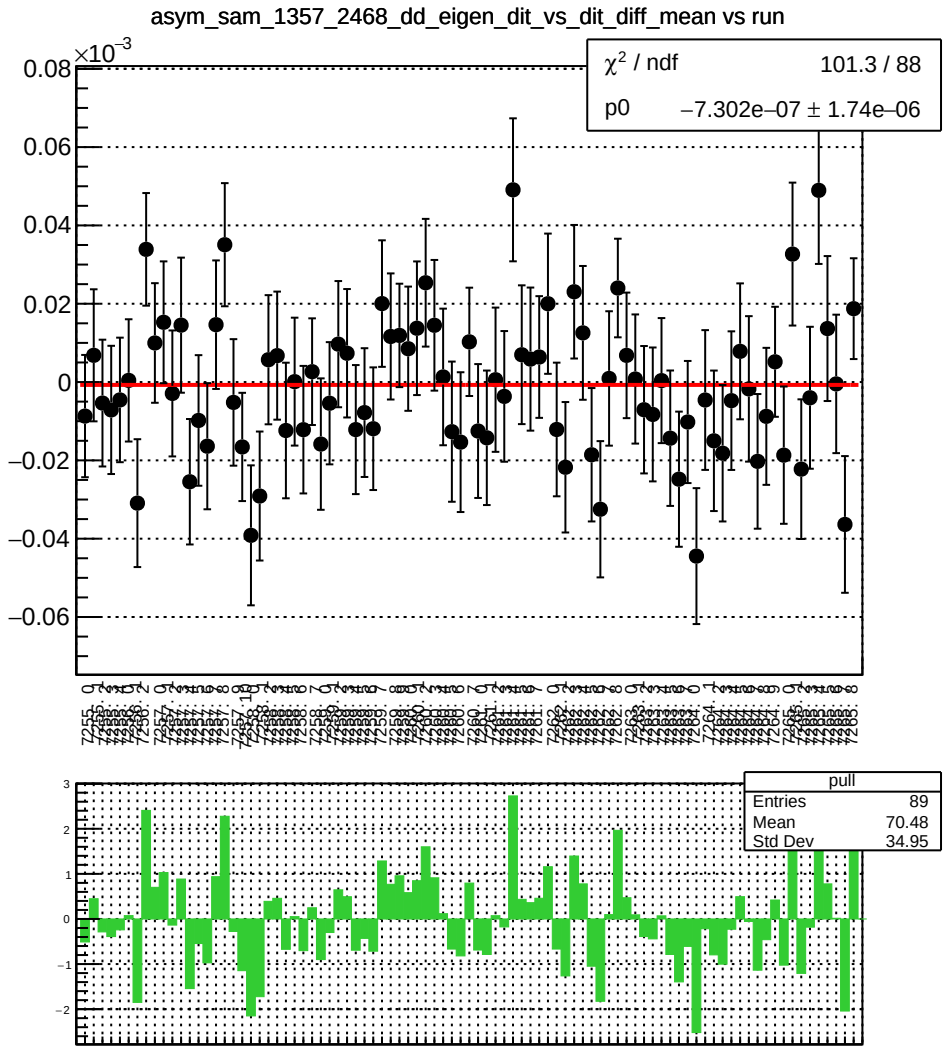

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.718e+05 / 88
p0 3.156e−12 ± 3.479e−15
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

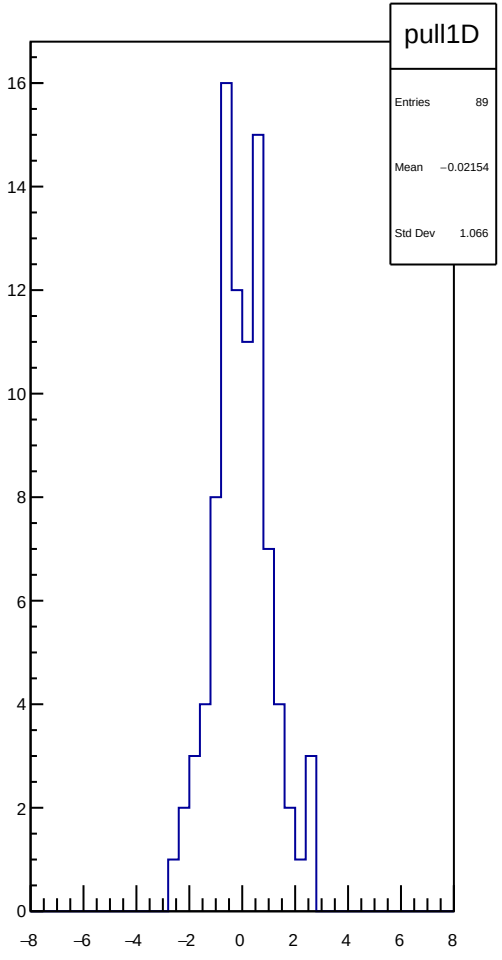

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.73 / 88
p0 −0.01456 ± 0.01687
1.5
1
0.5
0
−0.5
pull
Entries 89
Mean −69.81
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02777
Std Dev 0.9924
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

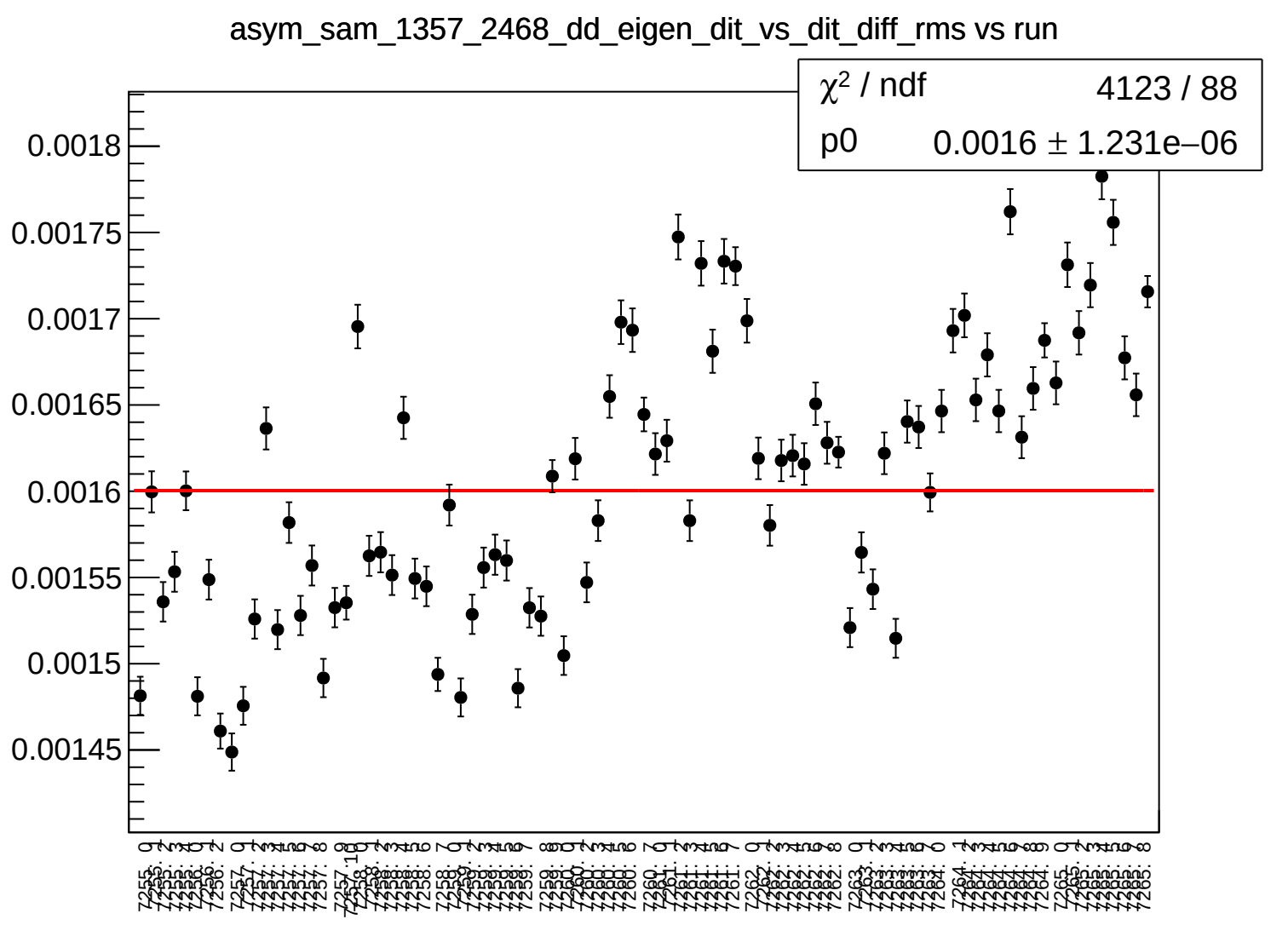

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.465e+05 / 88
p0 14.85 ± 0.01193
40
35
30
25
20
15
10

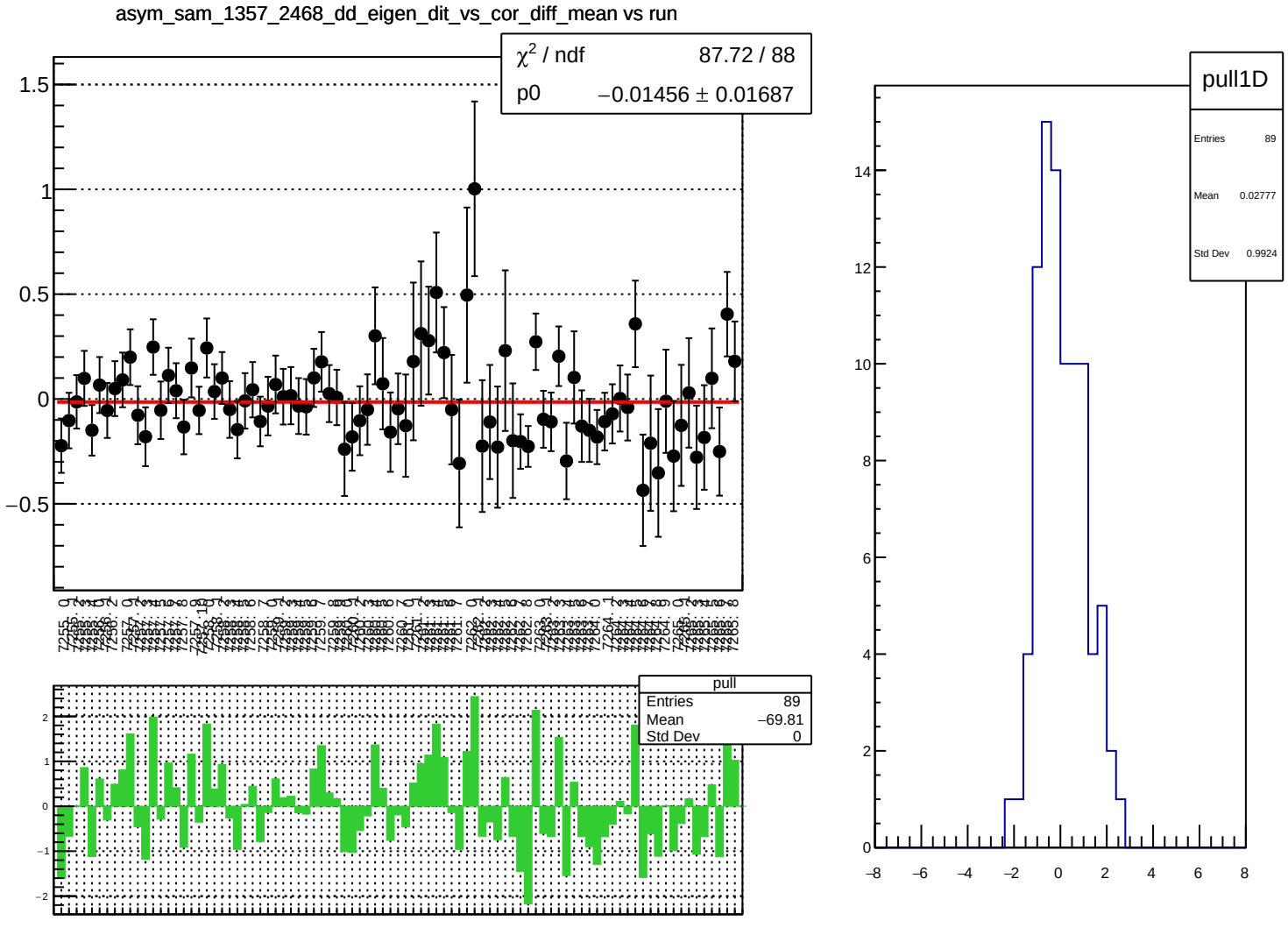

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.73 / 88
p0 −0.01456 ± 0.01687
1.5
1
0.5
0
−0.5
pull
Entries 89
Mean −69.81
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02777
Std Dev 0.9924
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

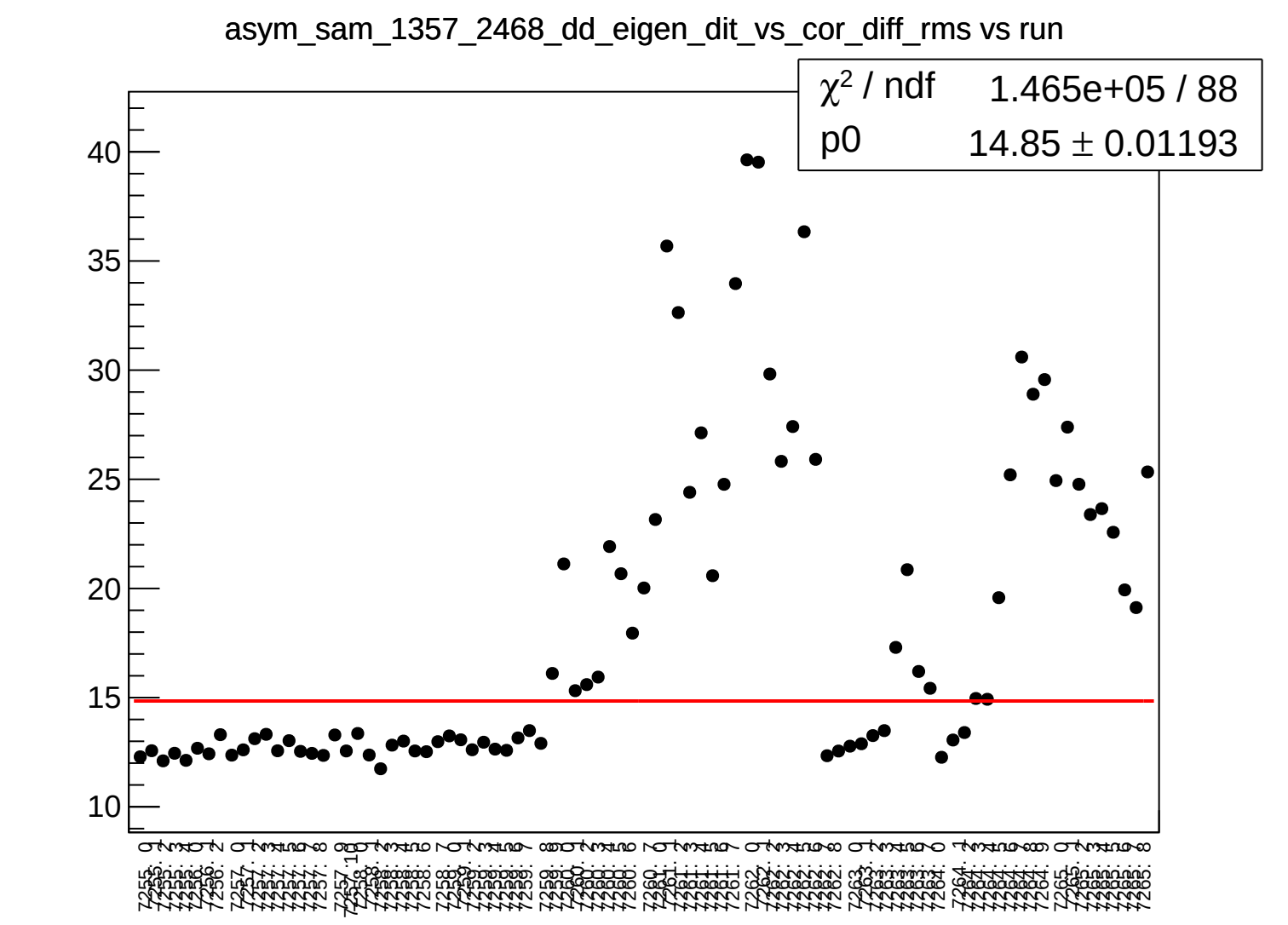

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.465e+05 / 88
p0 14.85 ± 0.01193
40
35
30
25
20
15
10

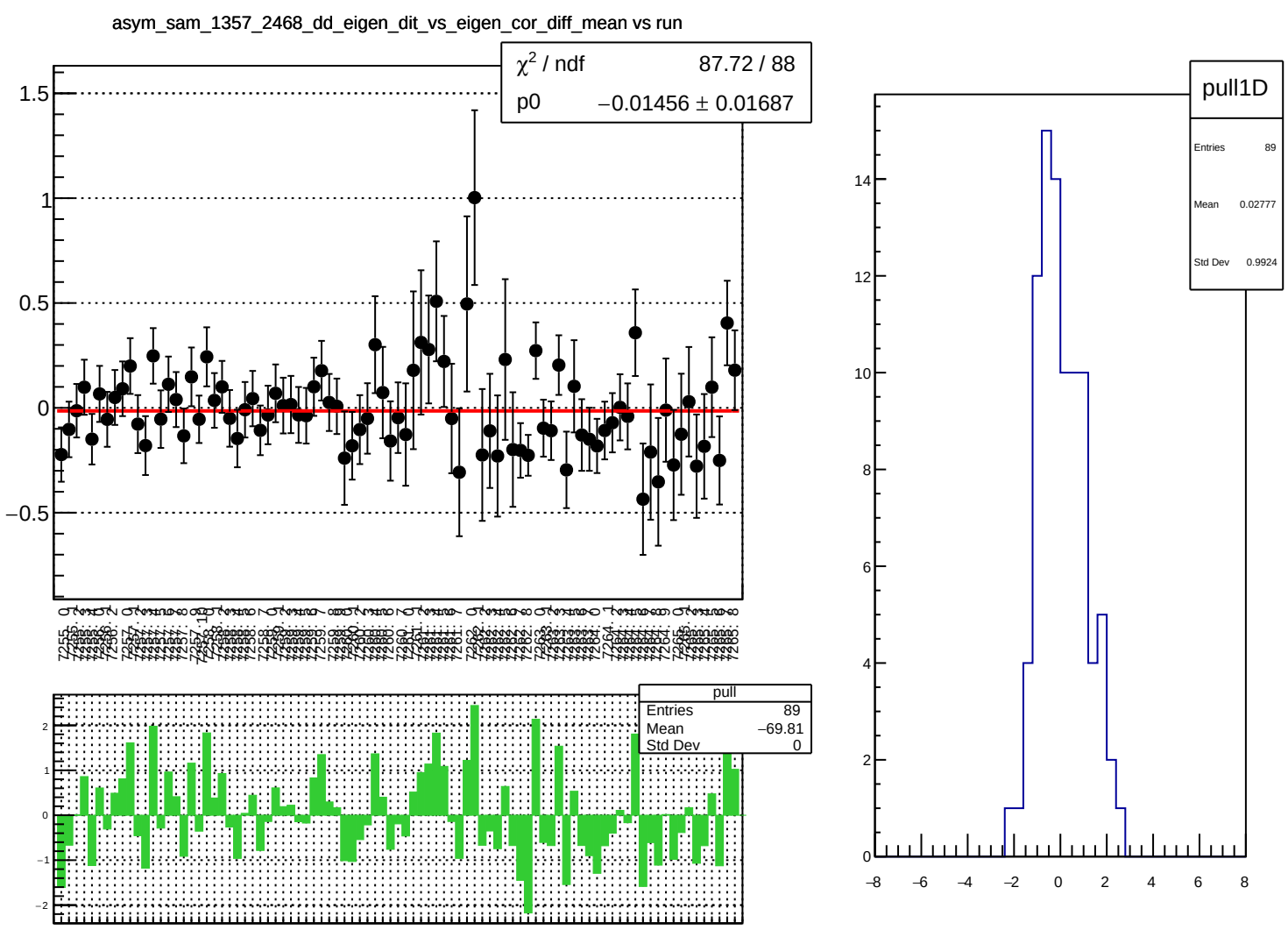

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.3 / 88
p0 −7.302e−07 ± 1.74e−06
pull
Entries 89
Mean 70.48
Std Dev 34.95

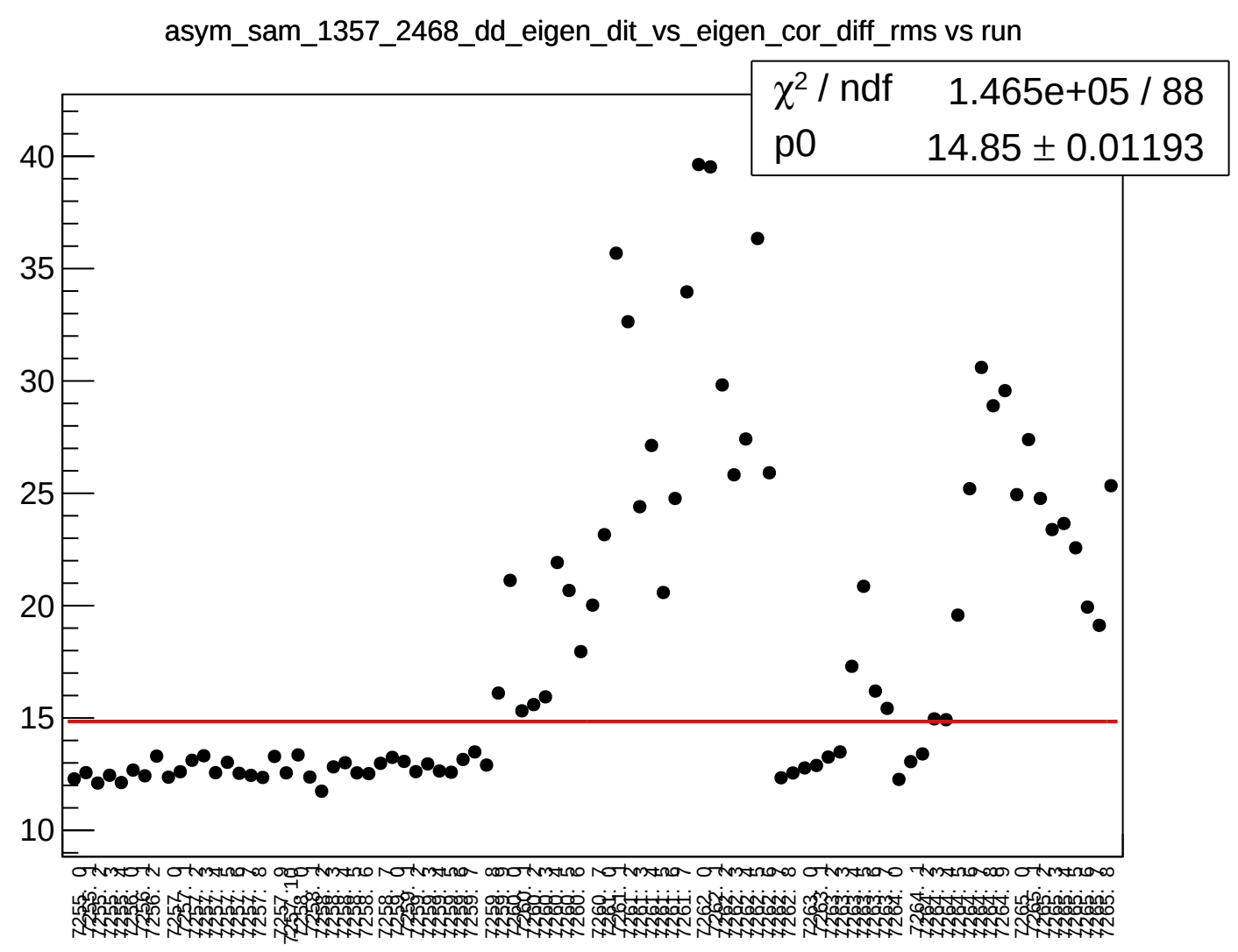

pull1D
Entries 89
Mean −0.02154
Std Dev 1.066

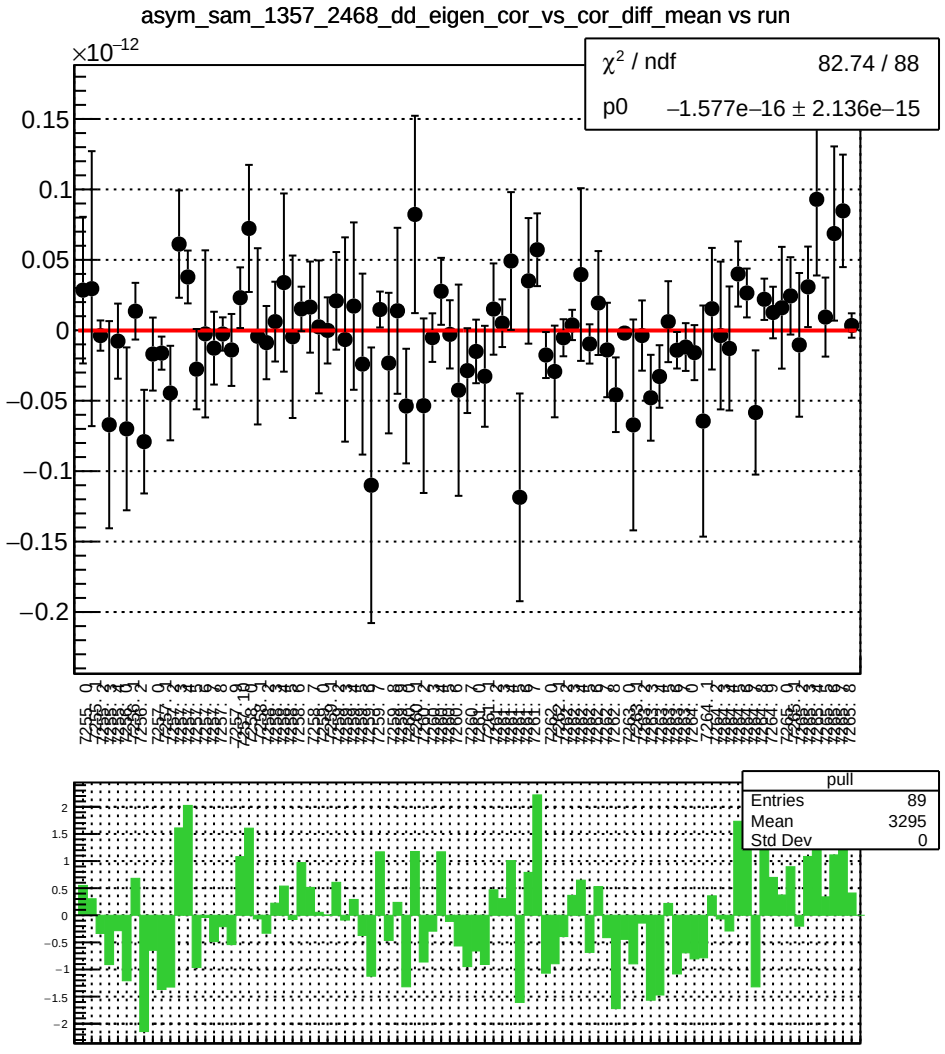

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4123 / 88
p0 0.0016 ± 1.231e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145

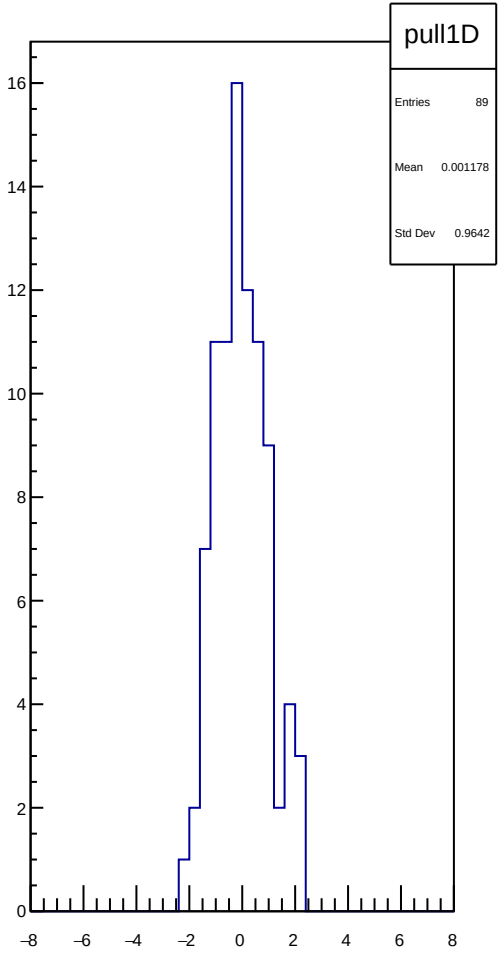

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.72 / 88
p0 −0.01456 ± 0.01687
1.5
1
0.5
0
−0.5
pull
Entries 89
Mean −69.81
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02777
Std Dev 0.9924
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

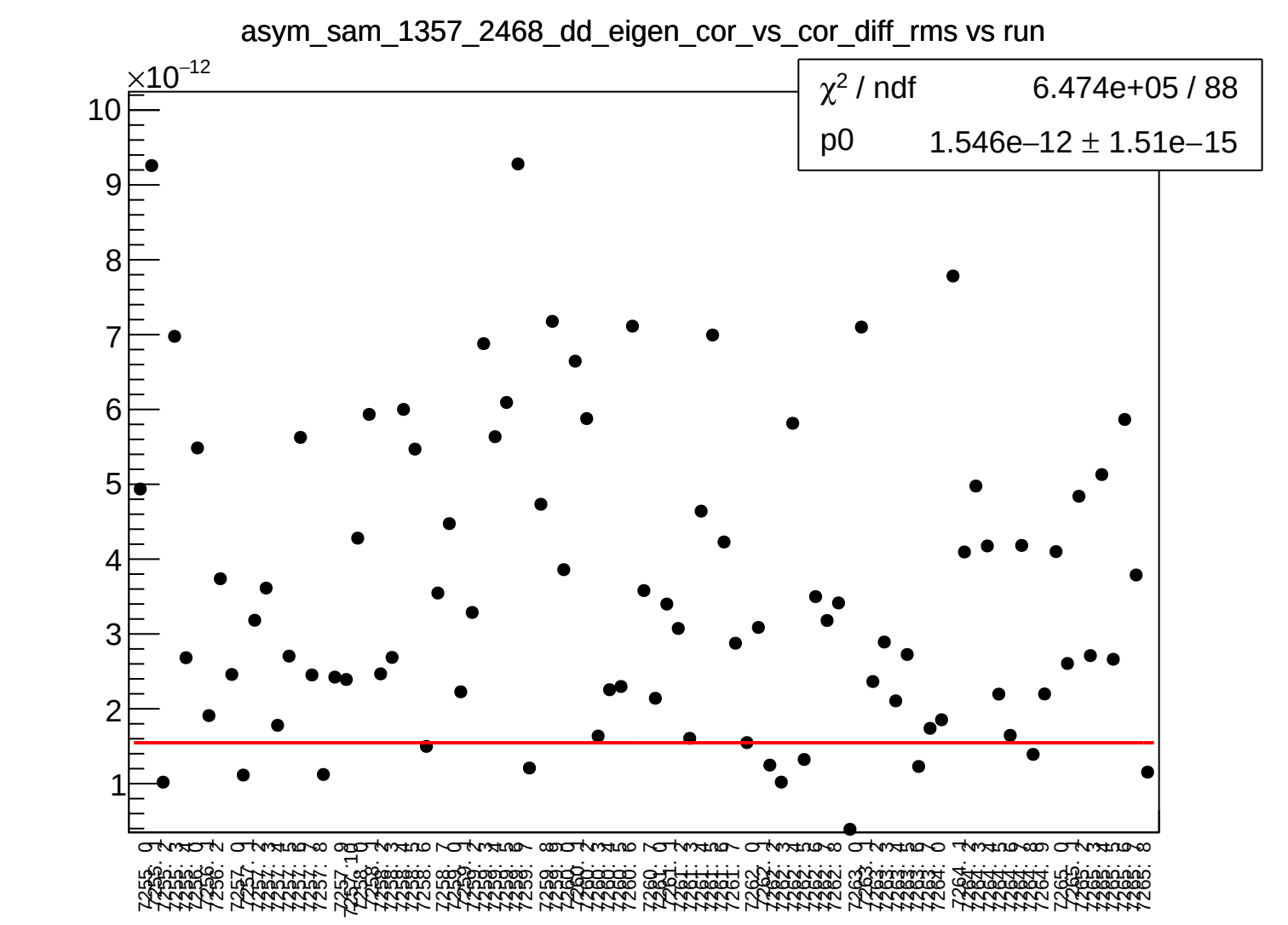

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.465e+05 / 88
p0 14.85 ± 0.01193
40
35
30
25
20
15
10

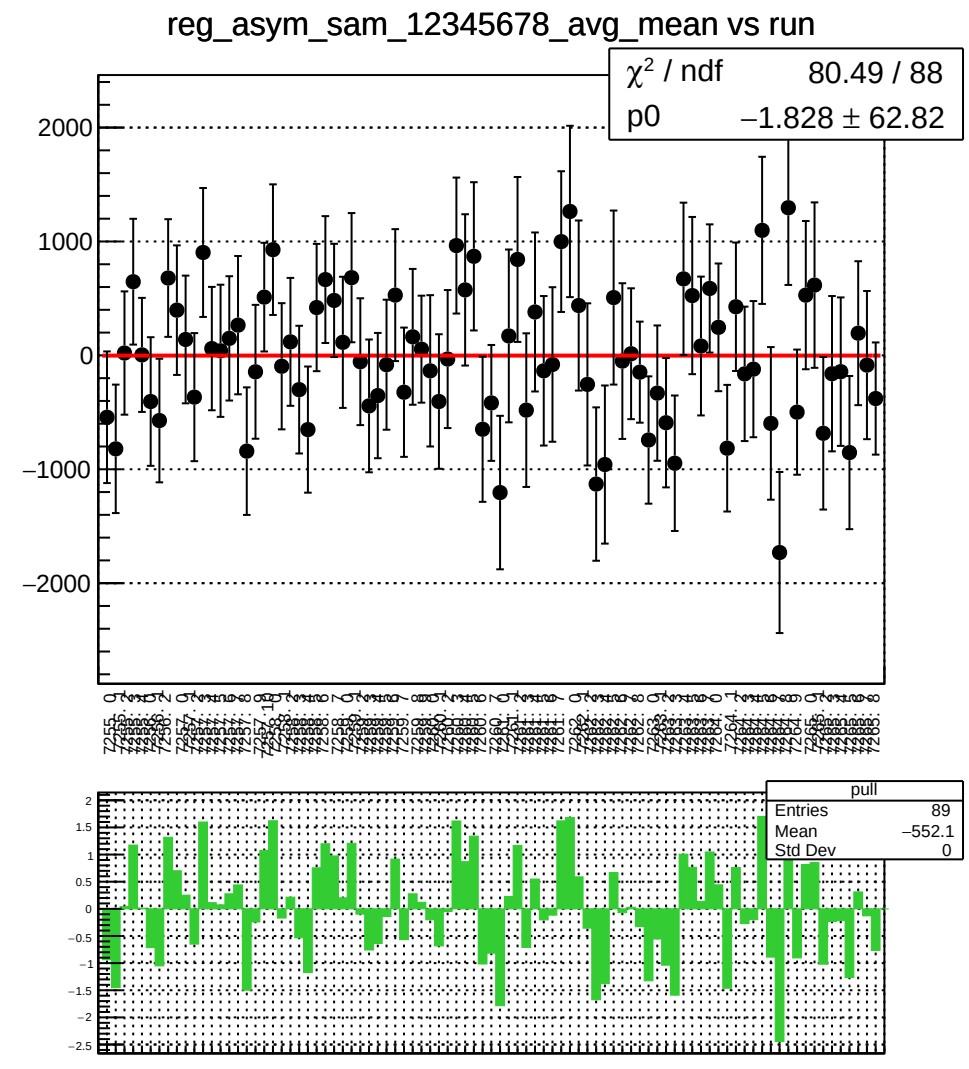

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.72 / 88
p0 −0.01456 ± 0.01687
pull
Entries 89
Mean −69.81
Std Dev 0
pull1D
Entries 89
Mean 0.02777
Std Dev 0.9924

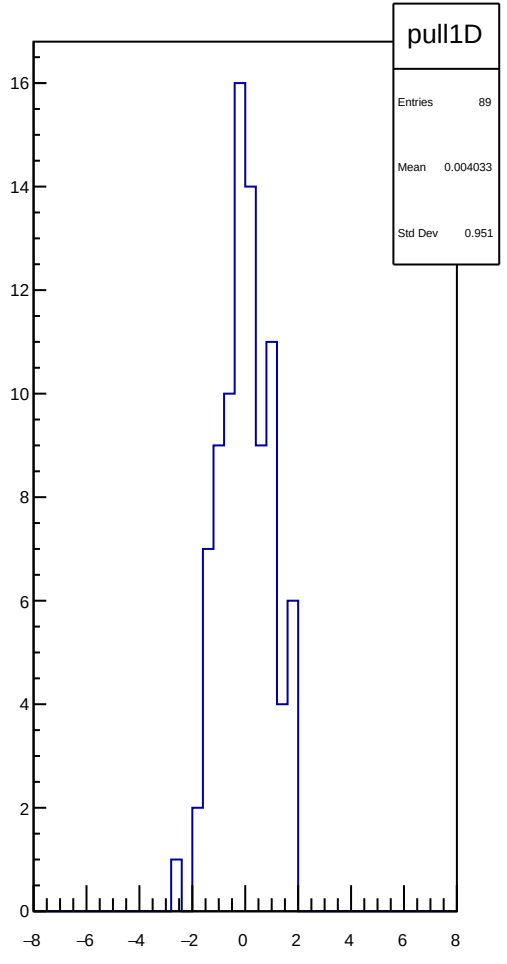

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.465e+05 / 88
p0 14.85 ± 0.01193
40
35
30
25
20
15
10

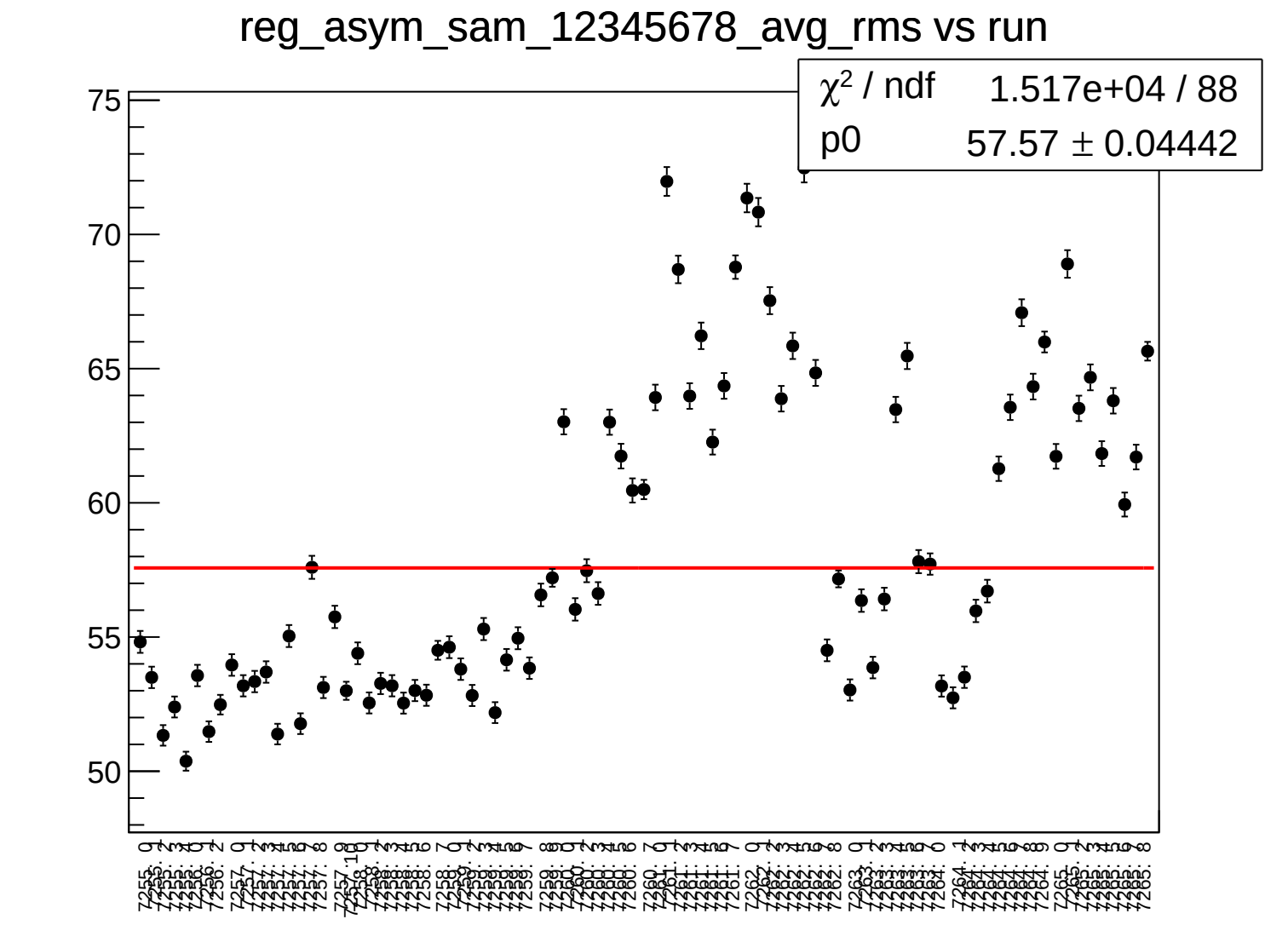

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.74 / 88
p0 −1.577e−16 ± 2.136e−15
pull
Entries 89
Mean 3295
Std Dev 0

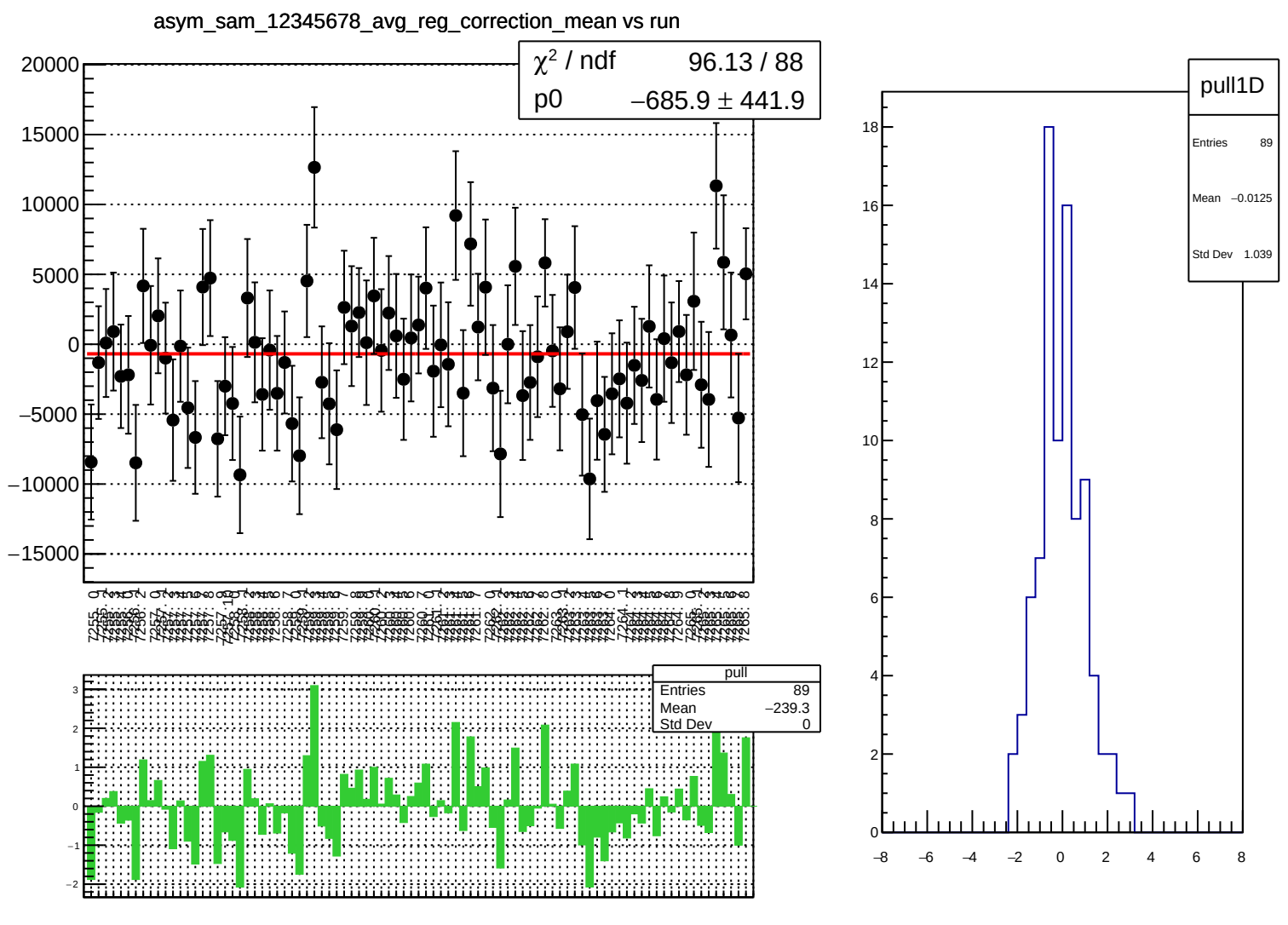

pull1D
Entries 89
Mean 0.001178
Std Dev 0.9642

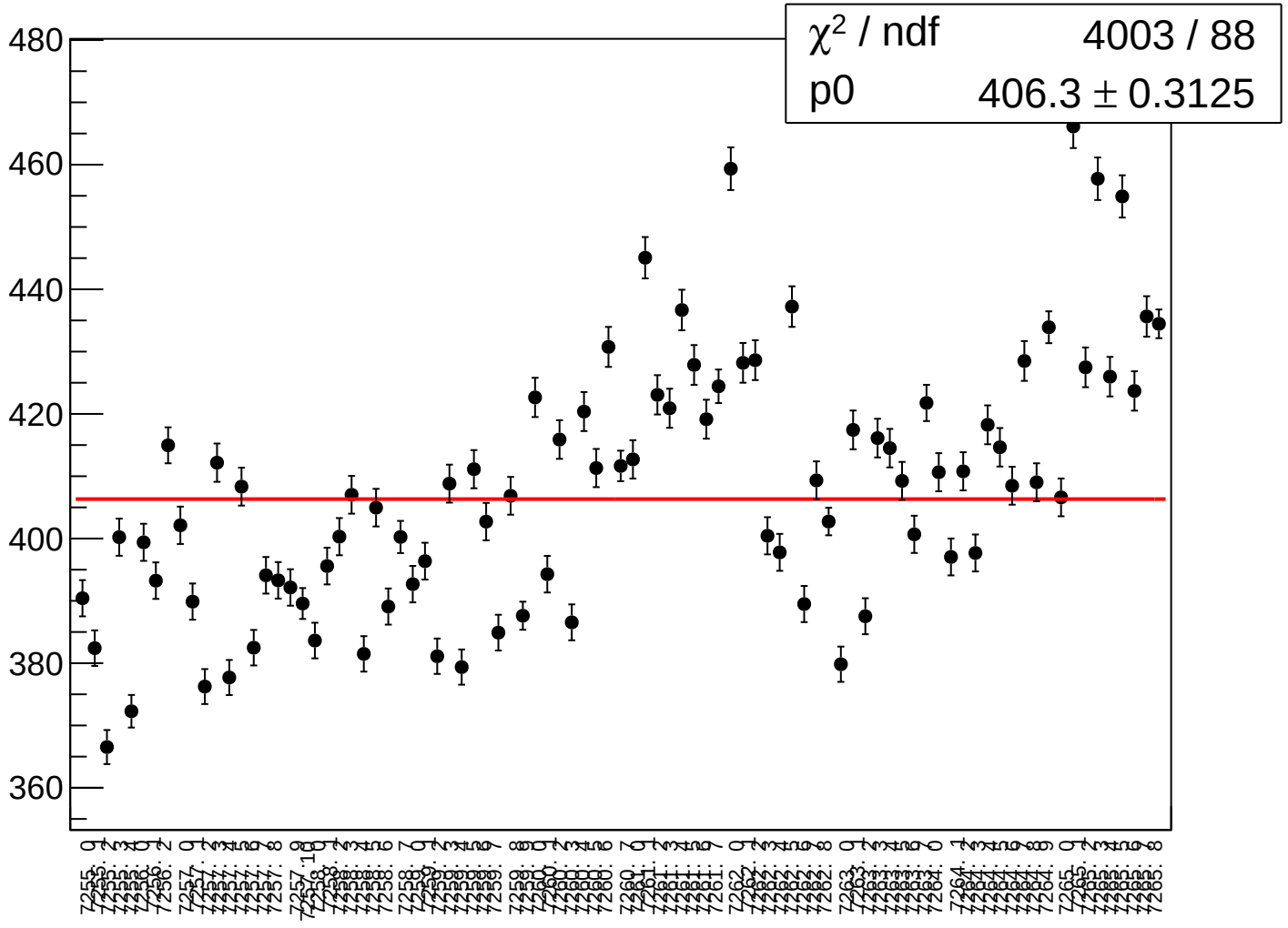

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.474e+05 / 88
p0 1.546e−12 ± 1.51e−15
10
9
8
7
6
5
4
3
2
1

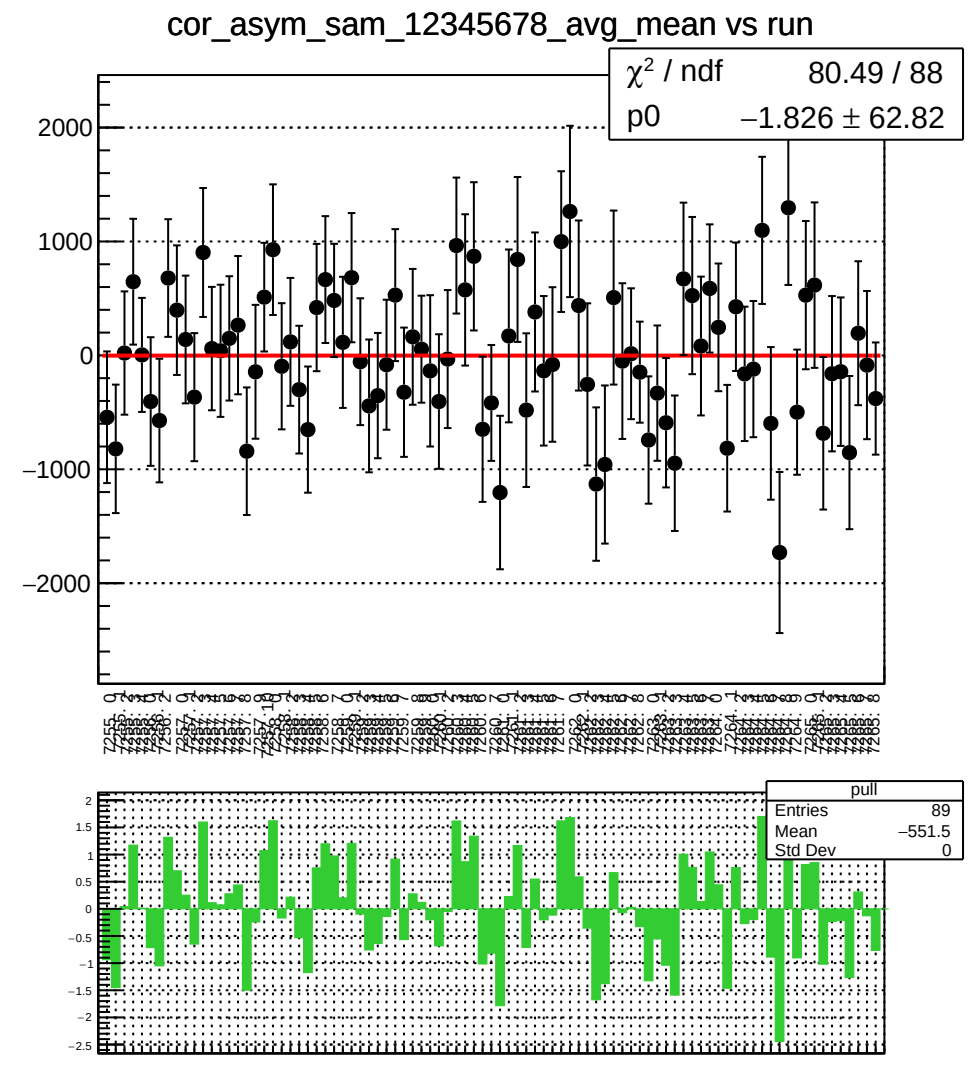

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 80.49 / 88
p0 −1.828 ± 62.82
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −552.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

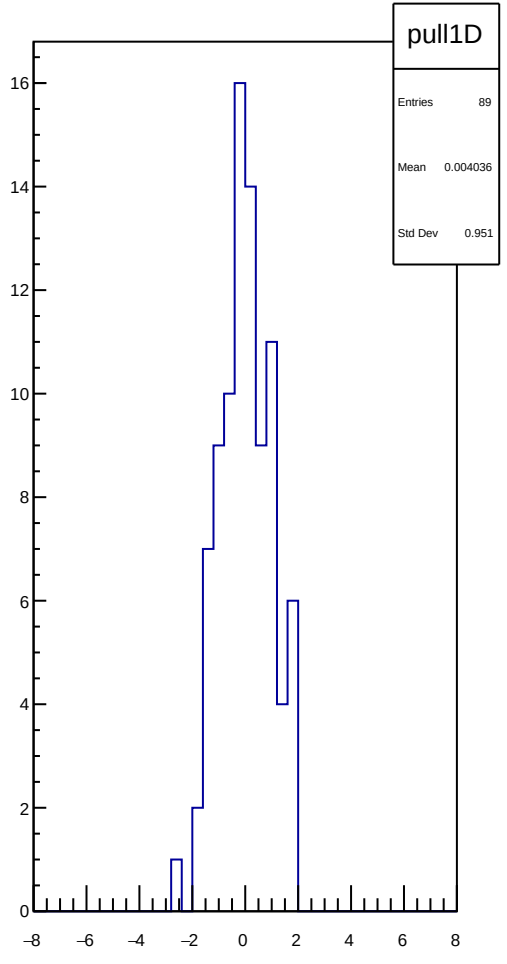

pull1D
Entries 89
Mean 0.004033
Std Dev 0.951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

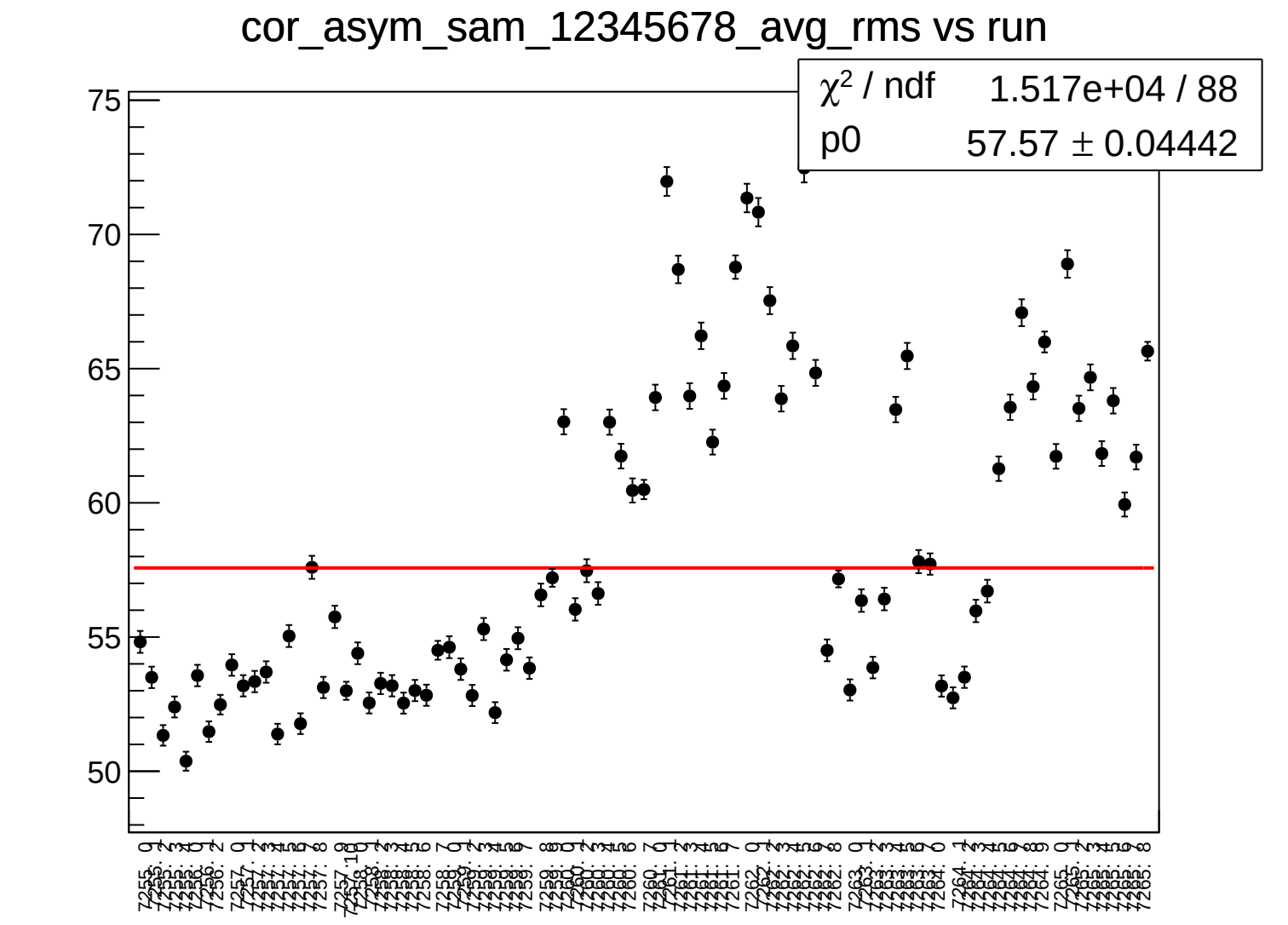

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.517e+04 / 88
p0 57.57 ± 0.04442
75
70
65
60
55
50

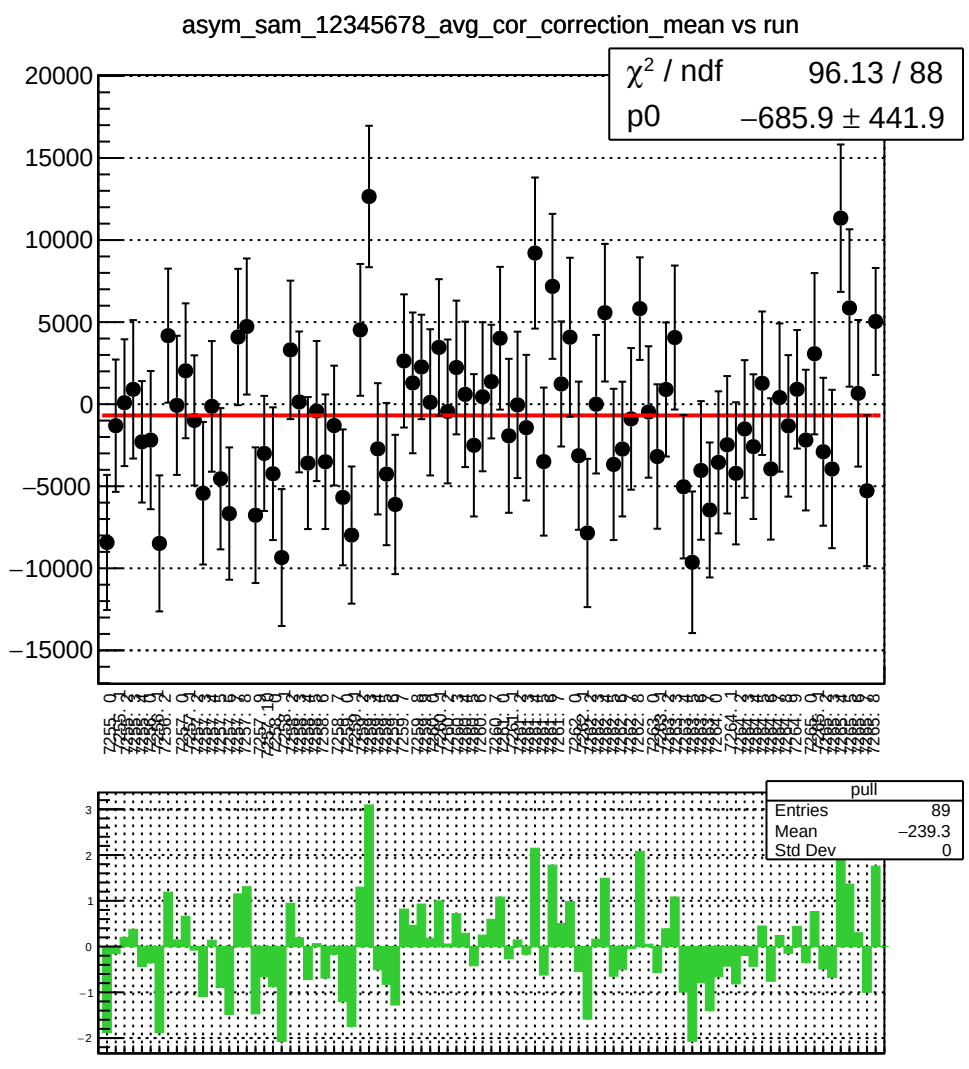

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 96.13 / 88
p0 −685.9 ± 441.9
pull
Entries 89
Mean −239.3
Std Dev 0
pull1D
Entries 89
Mean −0.0125
Std Dev 1.039

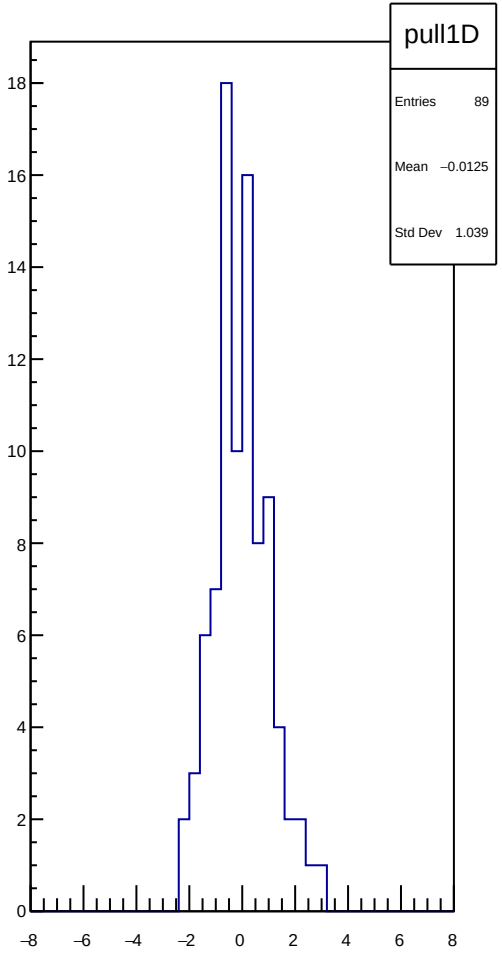

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 4003 / 88
p0 406.3 ± 0.3125
480
460
440
420
400
380
360

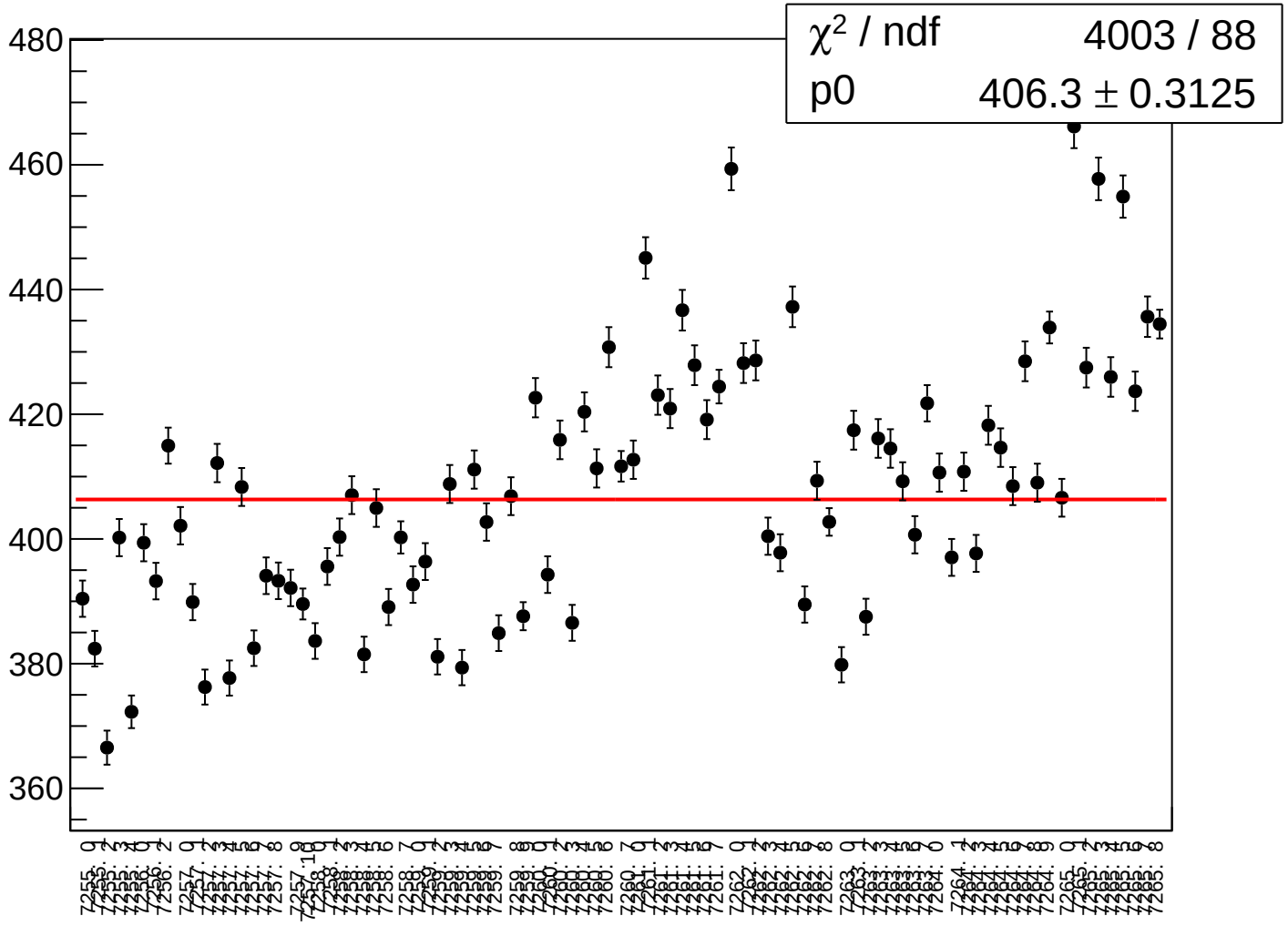

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 80.49 / 88
p0 −1.826 ± 62.82
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −551.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

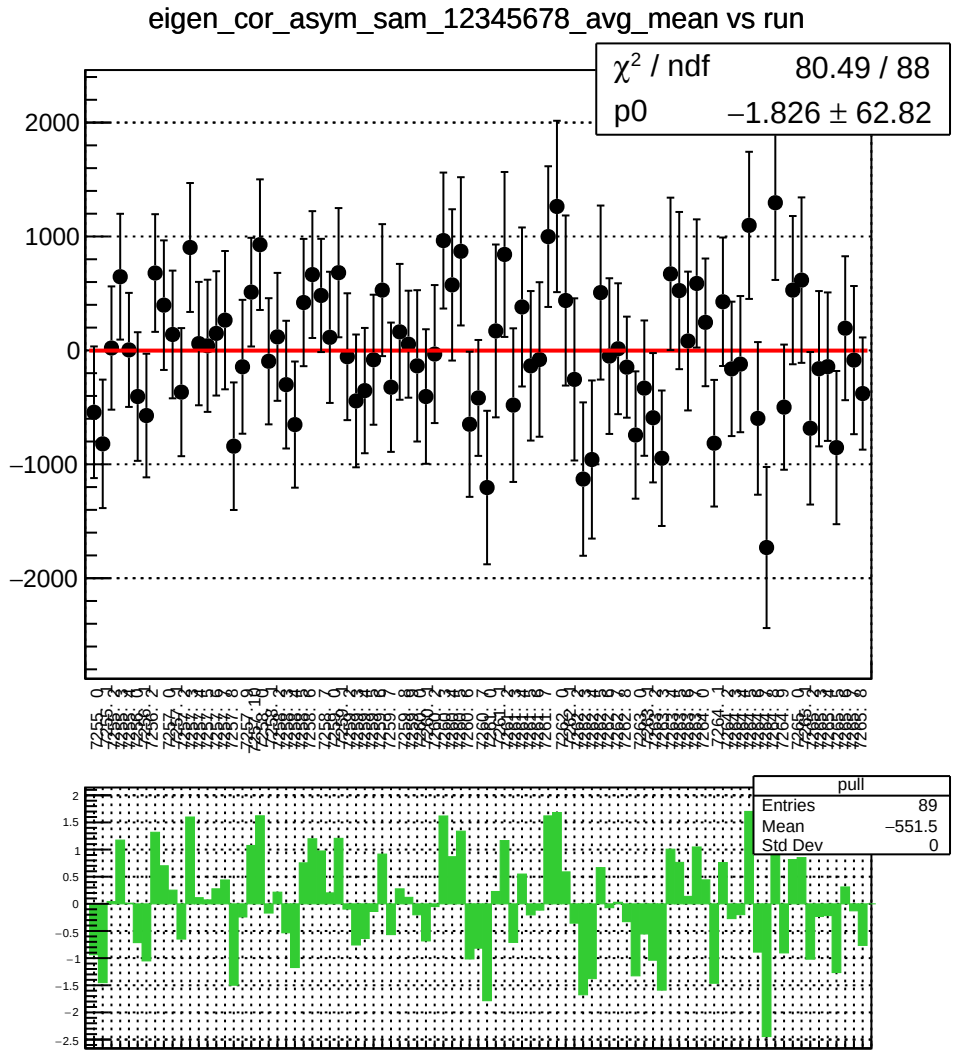

pull1D
Entries 89
Mean 0.004036
Std Dev 0.951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

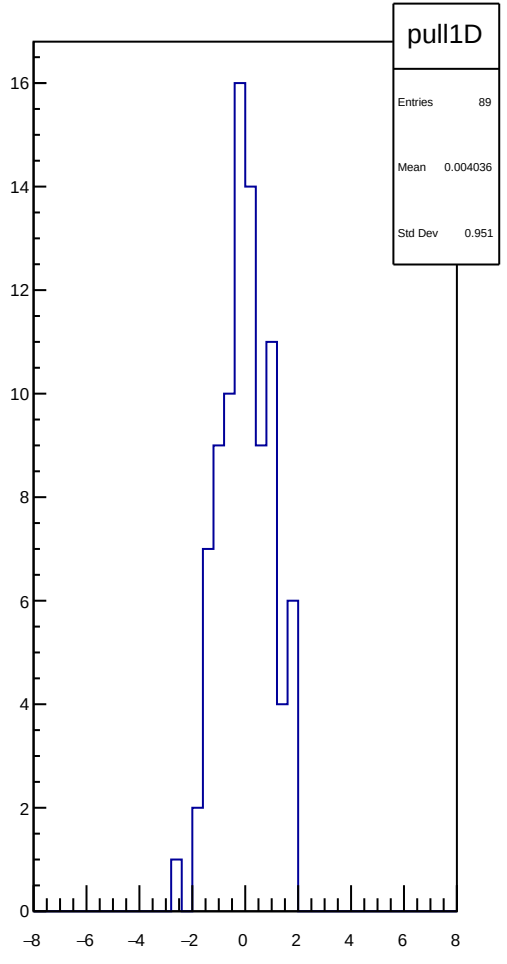

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.517e+04 / 88
p0 57.57 ± 0.04442
75
70
65
60
55
50

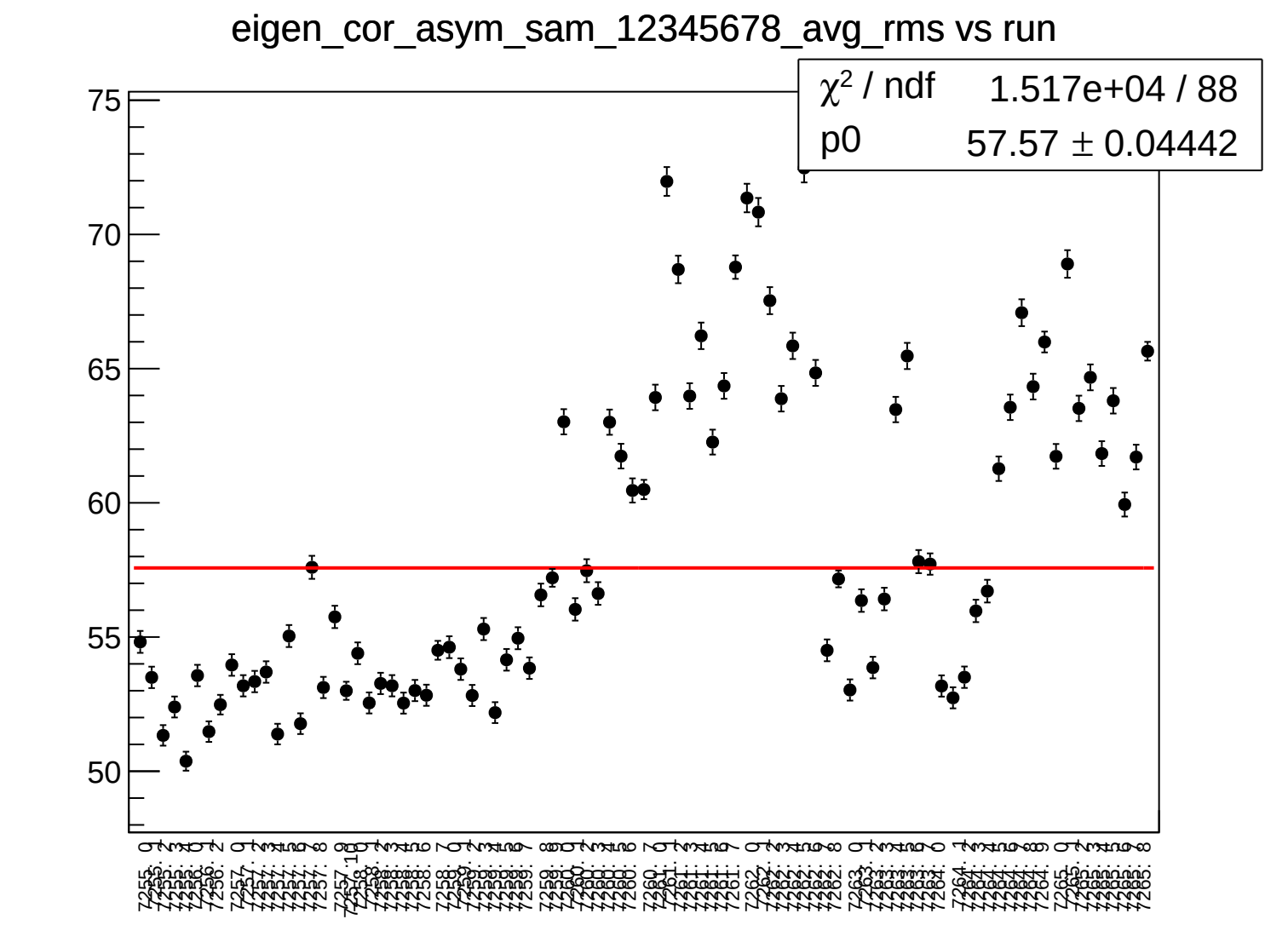

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 96.13 / 88
p0 −685.9 ± 441.9
pull
Entries 89
Mean −239.3
Std Dev 0

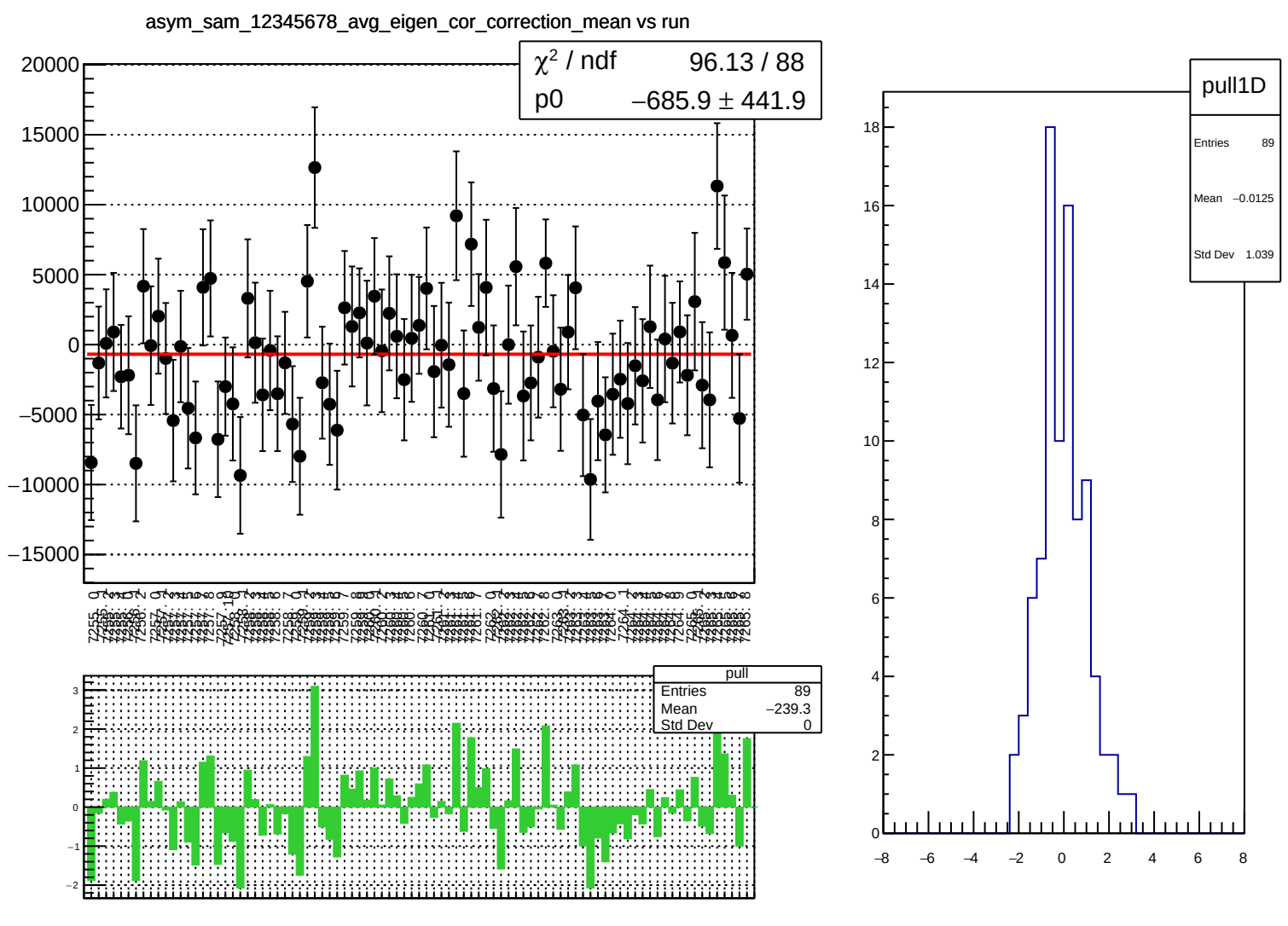

pull1D
Entries 89
Mean −0.0125
Std Dev 1.039

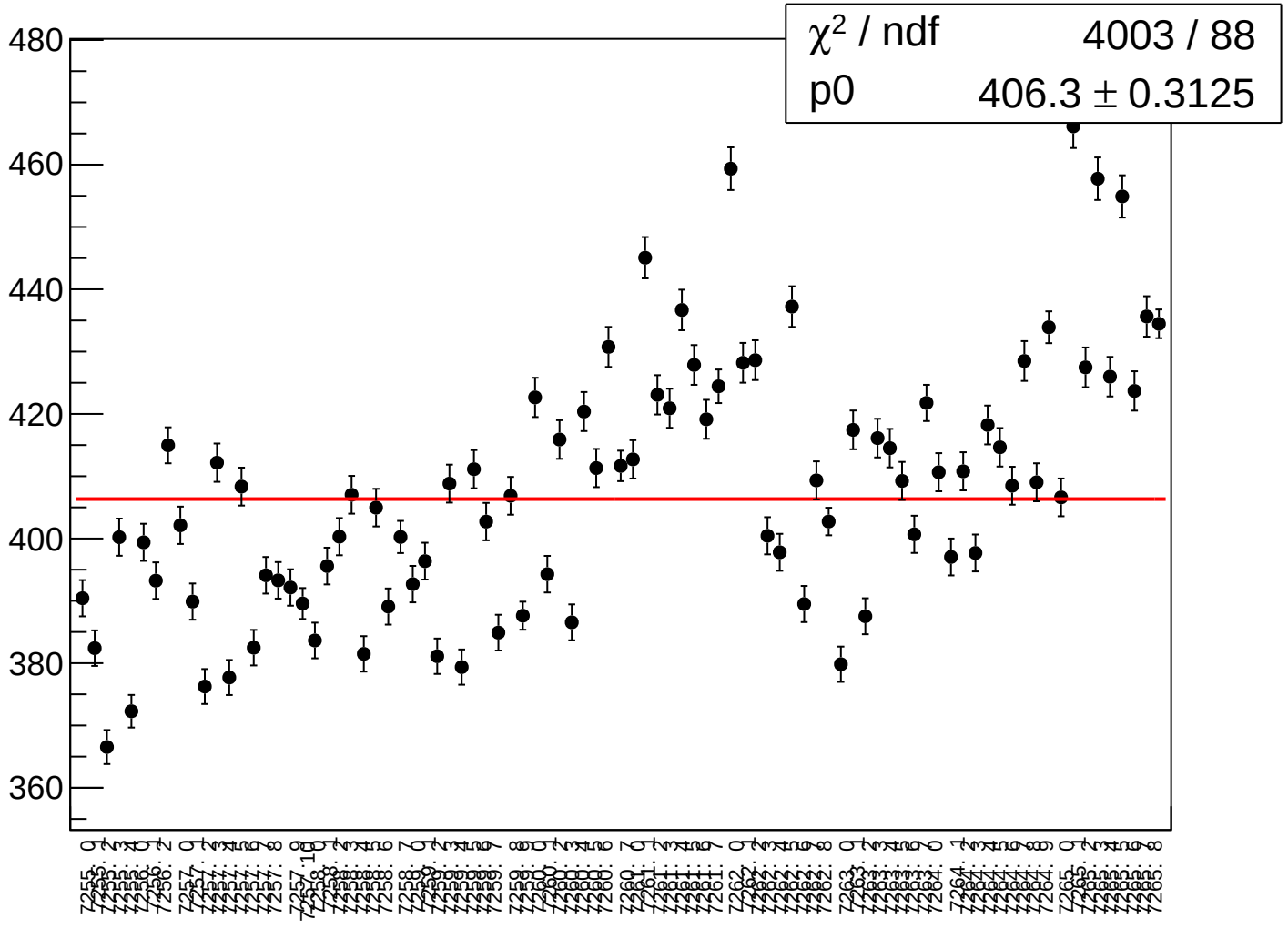

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 4003 / 88
p0 406.3 ± 0.3125
480
460
440
420
400
380
360

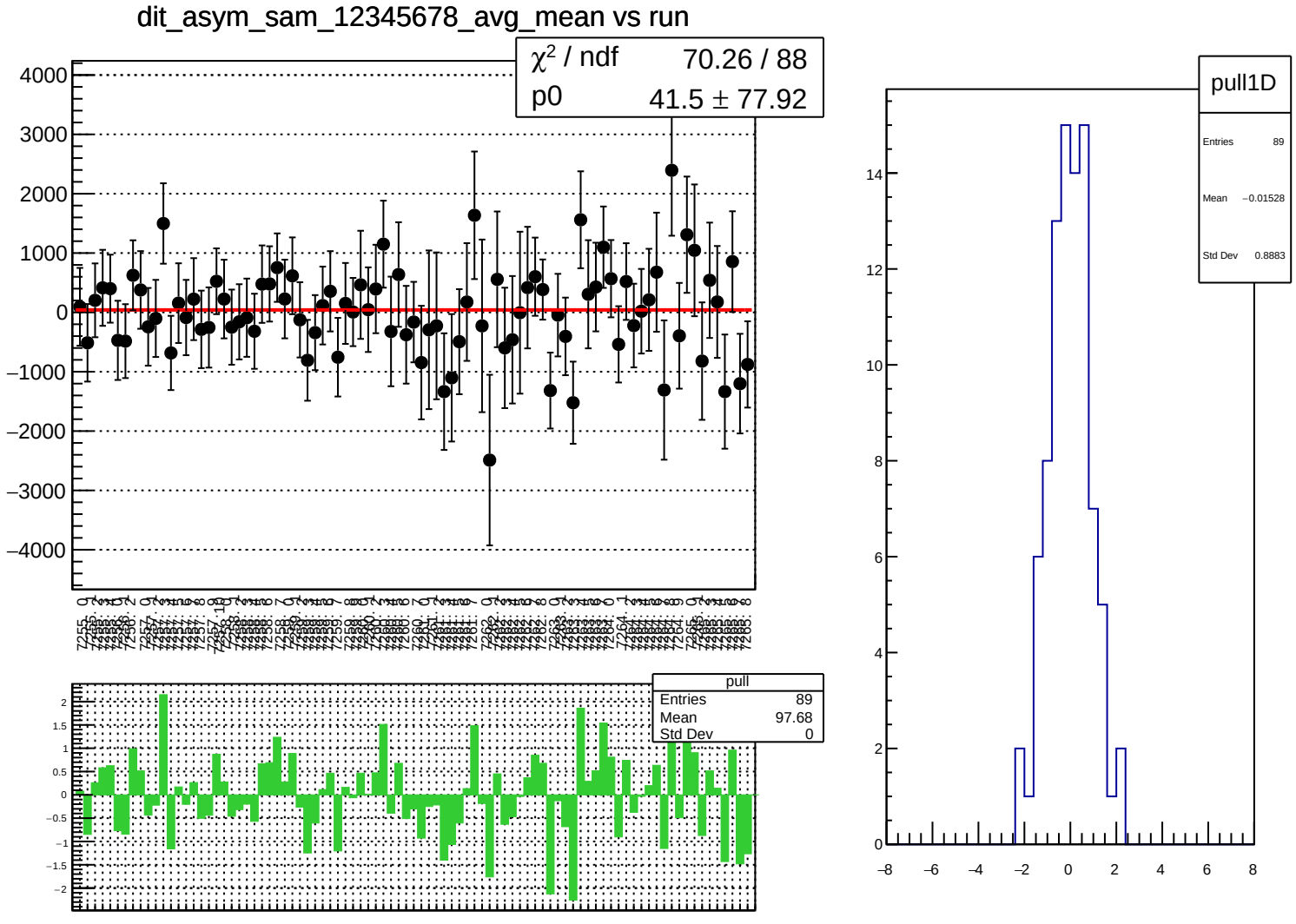

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 80.49 / 88
p0 −1.826 ± 62.82
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −551.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

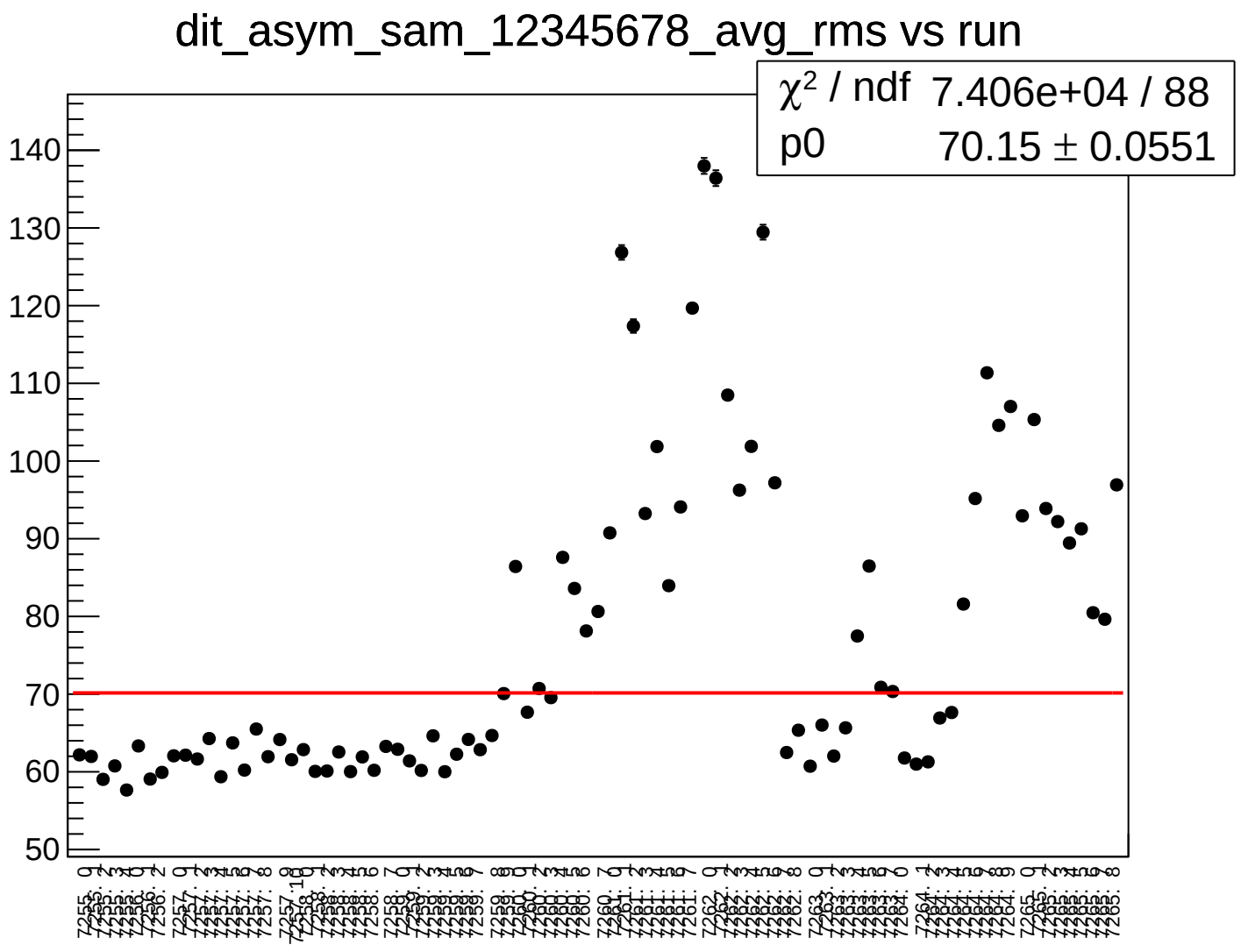

pull1D
Entries 89
Mean 0.004036
Std Dev 0.951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

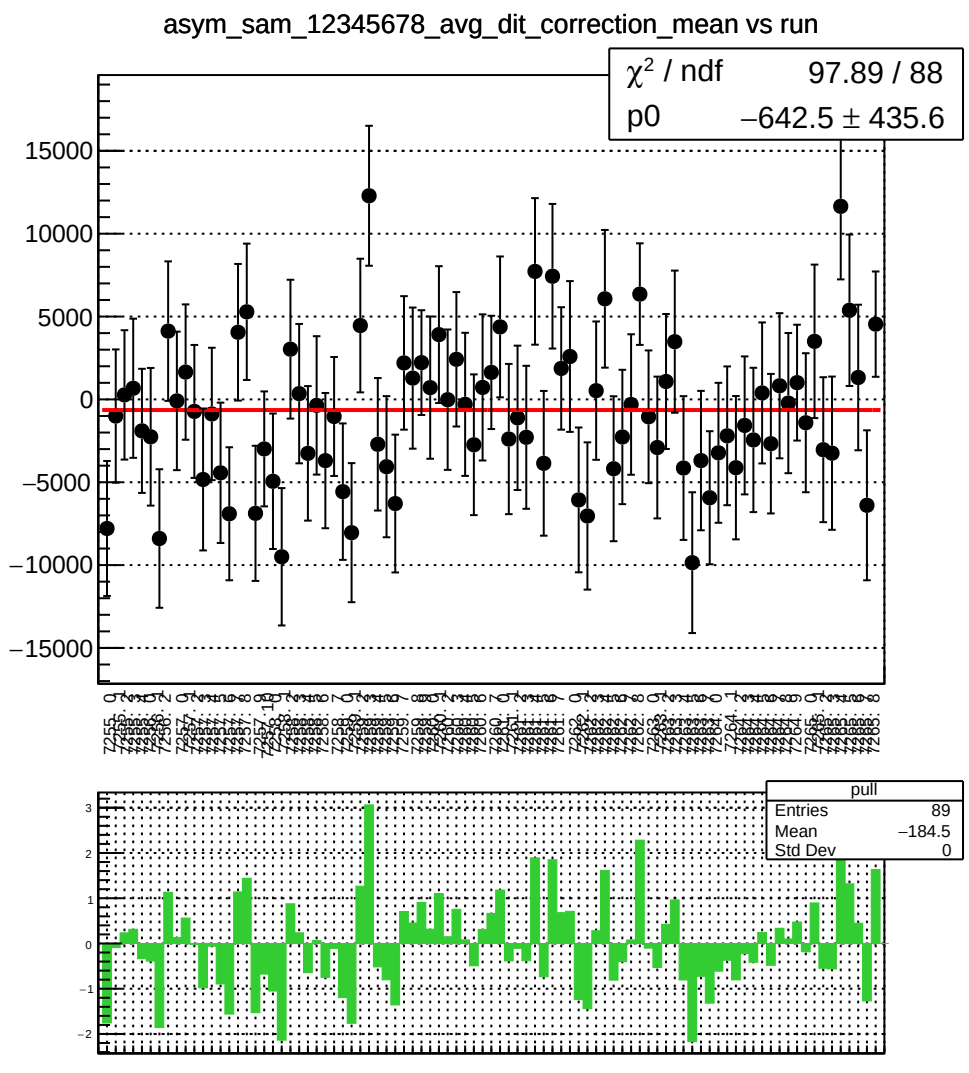

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.517e+04 / 88
p0 57.57 ± 0.04442
75
70
65
60
55
50

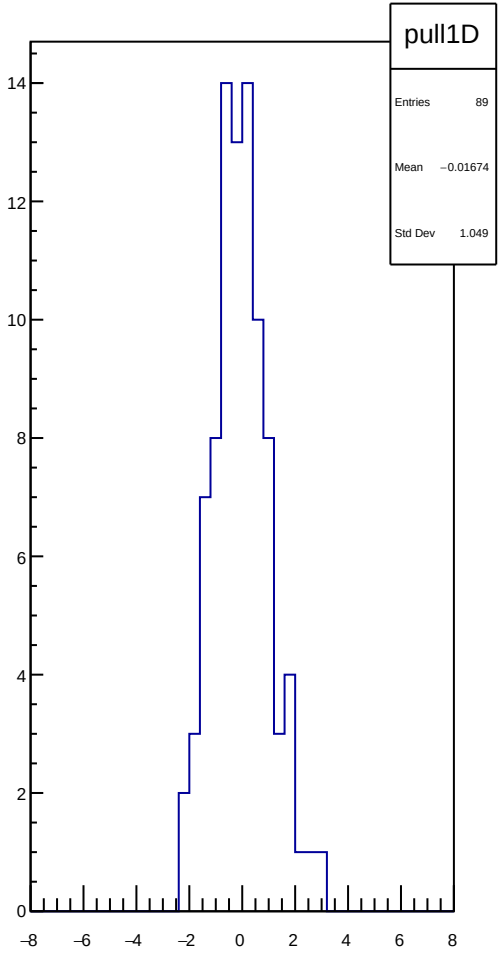

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.13 / 88
p0 −685.9 ± 441.9
pull
Entries 89
Mean −239.3
Std Dev 0
pull1D
Entries 89
Mean −0.0125
Std Dev 1.039

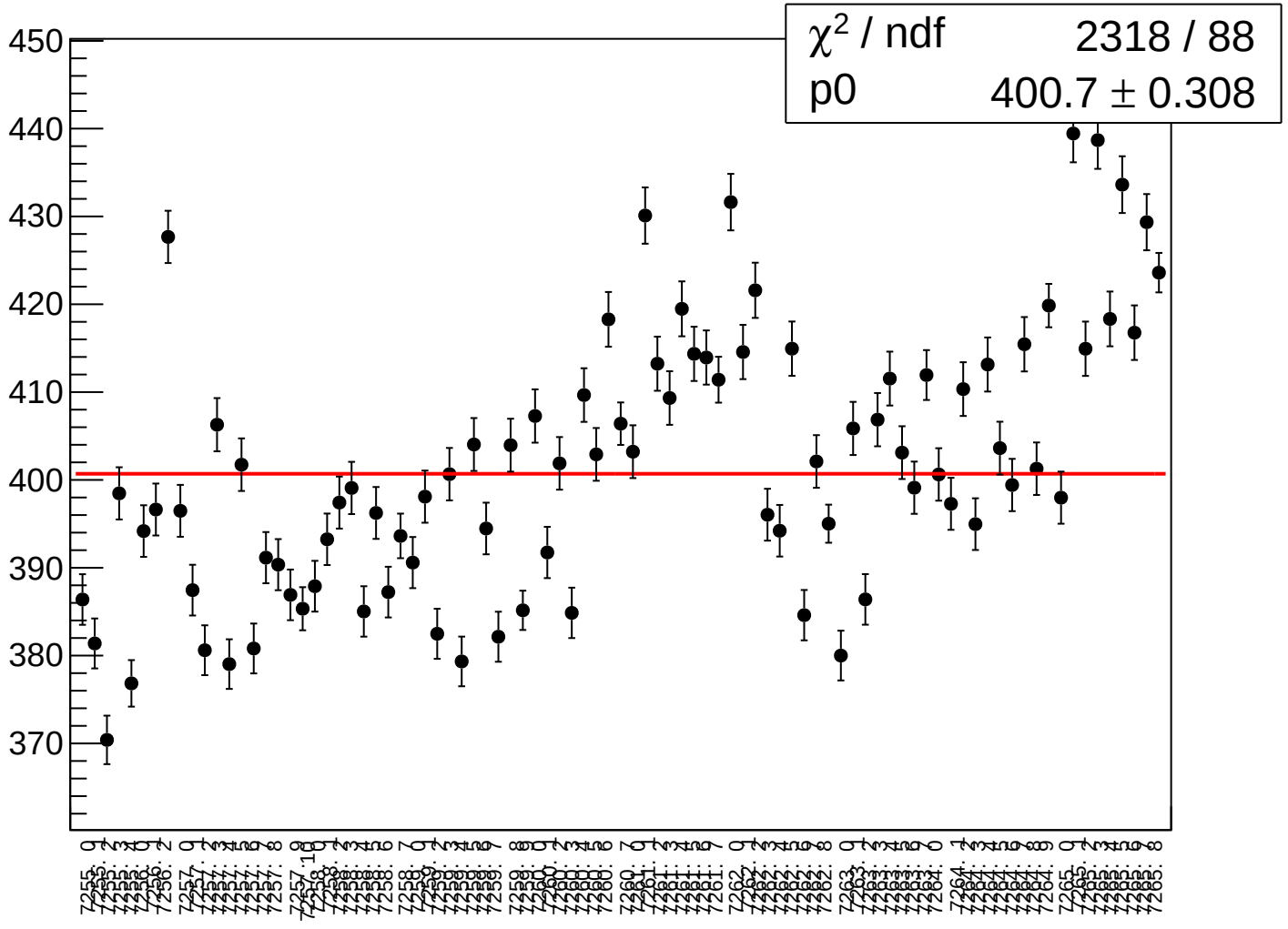

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 4003 / 88
p0 406.3 ± 0.3125
480
460
440
420
400
380
360

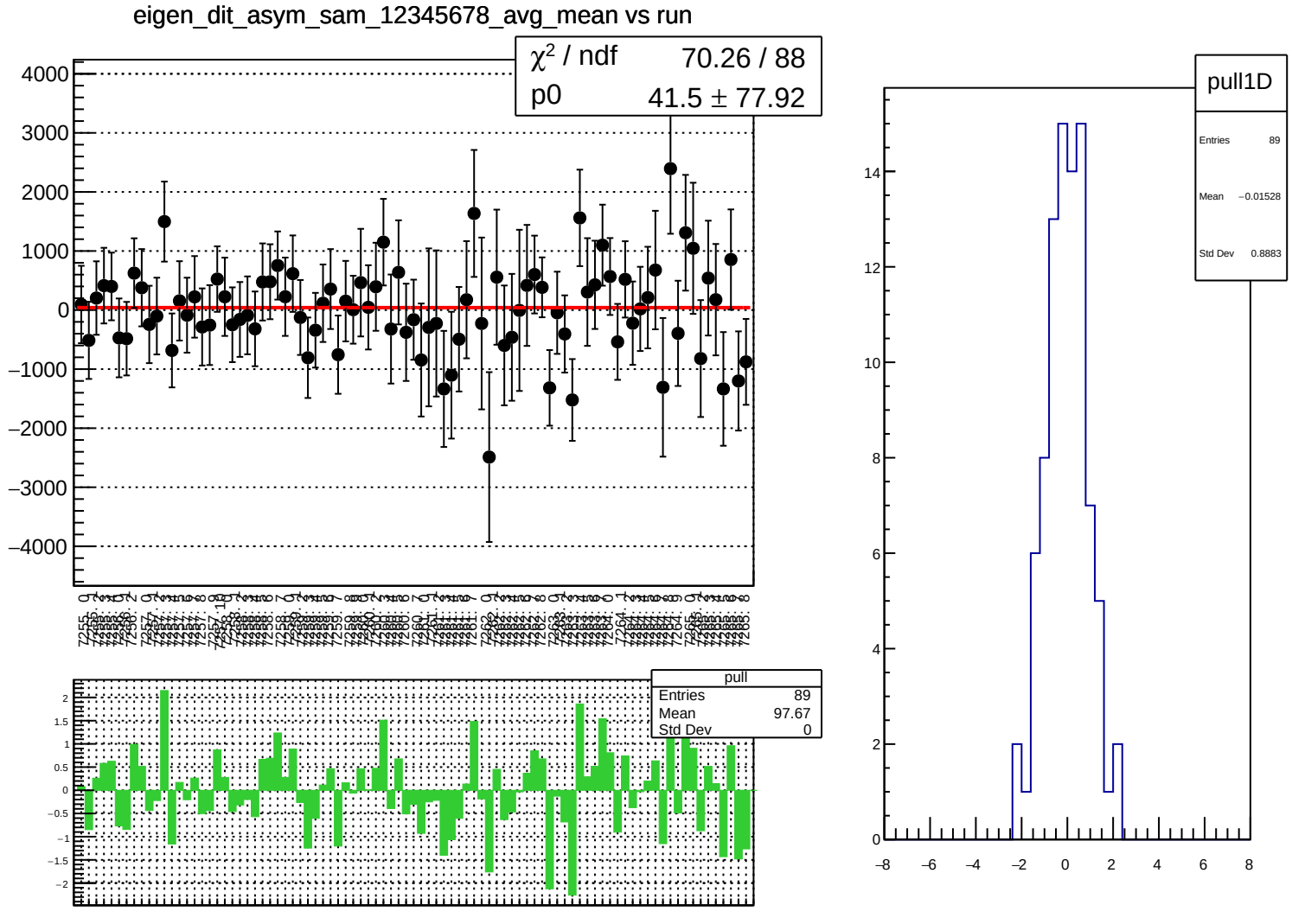

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 70.26 / 88
p0 41.5 ± 77.92
pull
Entries 89
Mean 97.68
Std Dev 0
pull1D
Entries 89
Mean −0.01528
Std Dev 0.8883

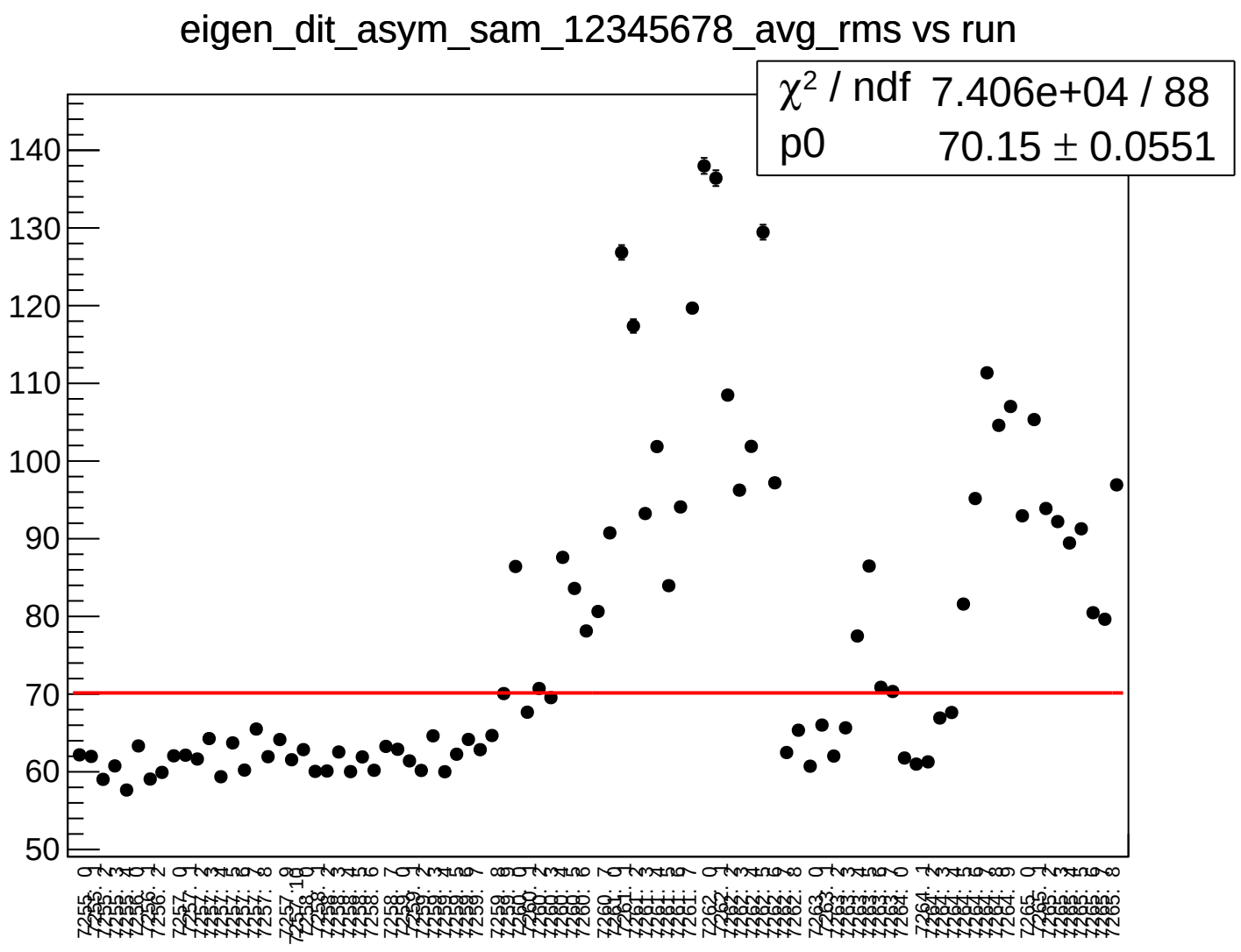

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 7.406e+04 / 88
p0 70.15 ± 0.0551
140
130
120
110
100
90
80
70
60
50

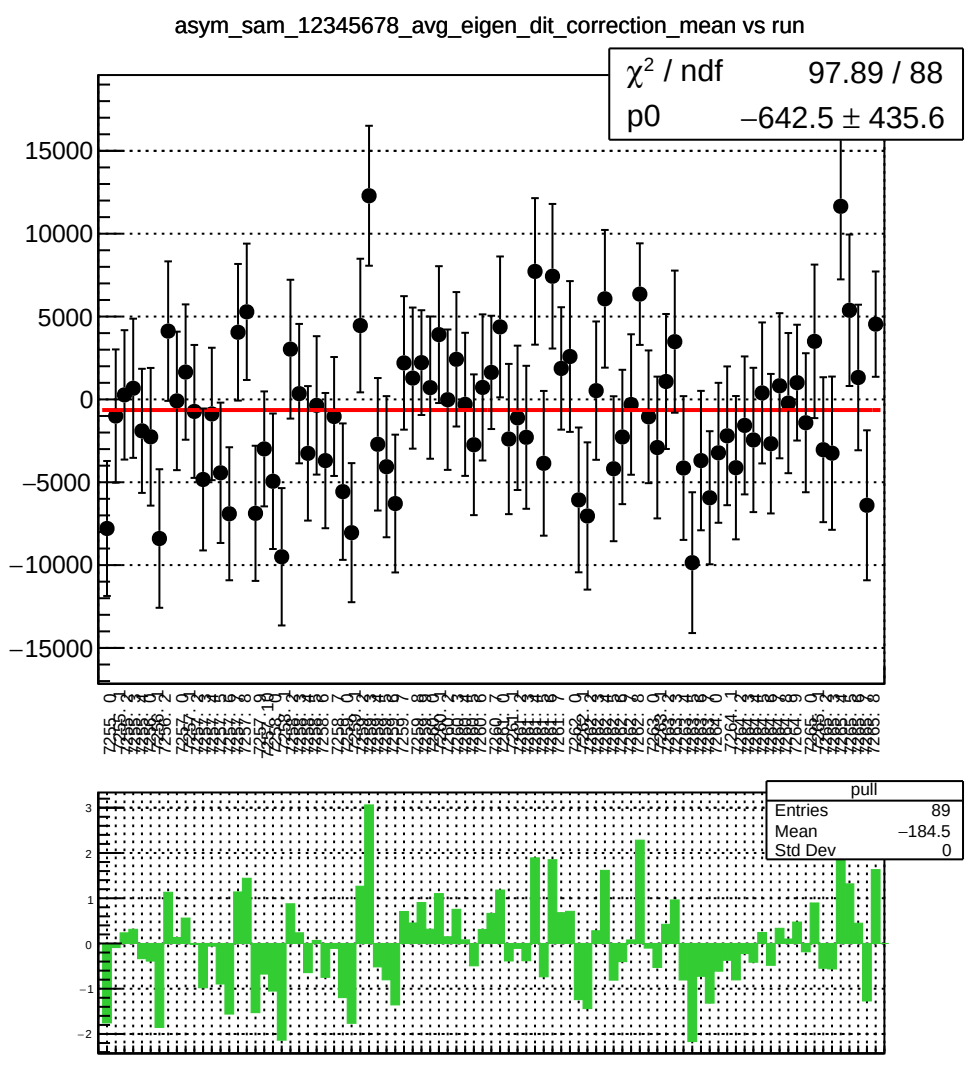

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 97.89 / 88
p0 −642.5 ± 435.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −184.5
Std Dev 0
3
2
1
0
−1
−2

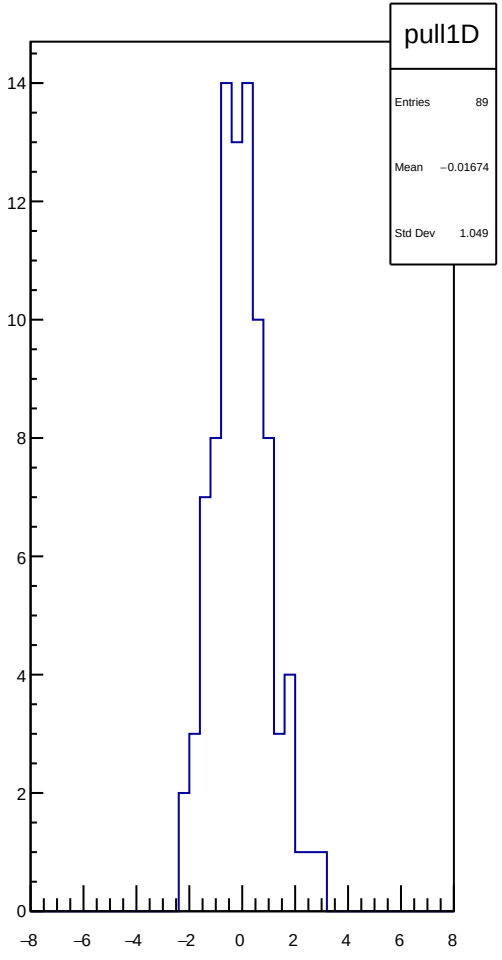

pull1D
Entries 89
Mean −0.01674
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

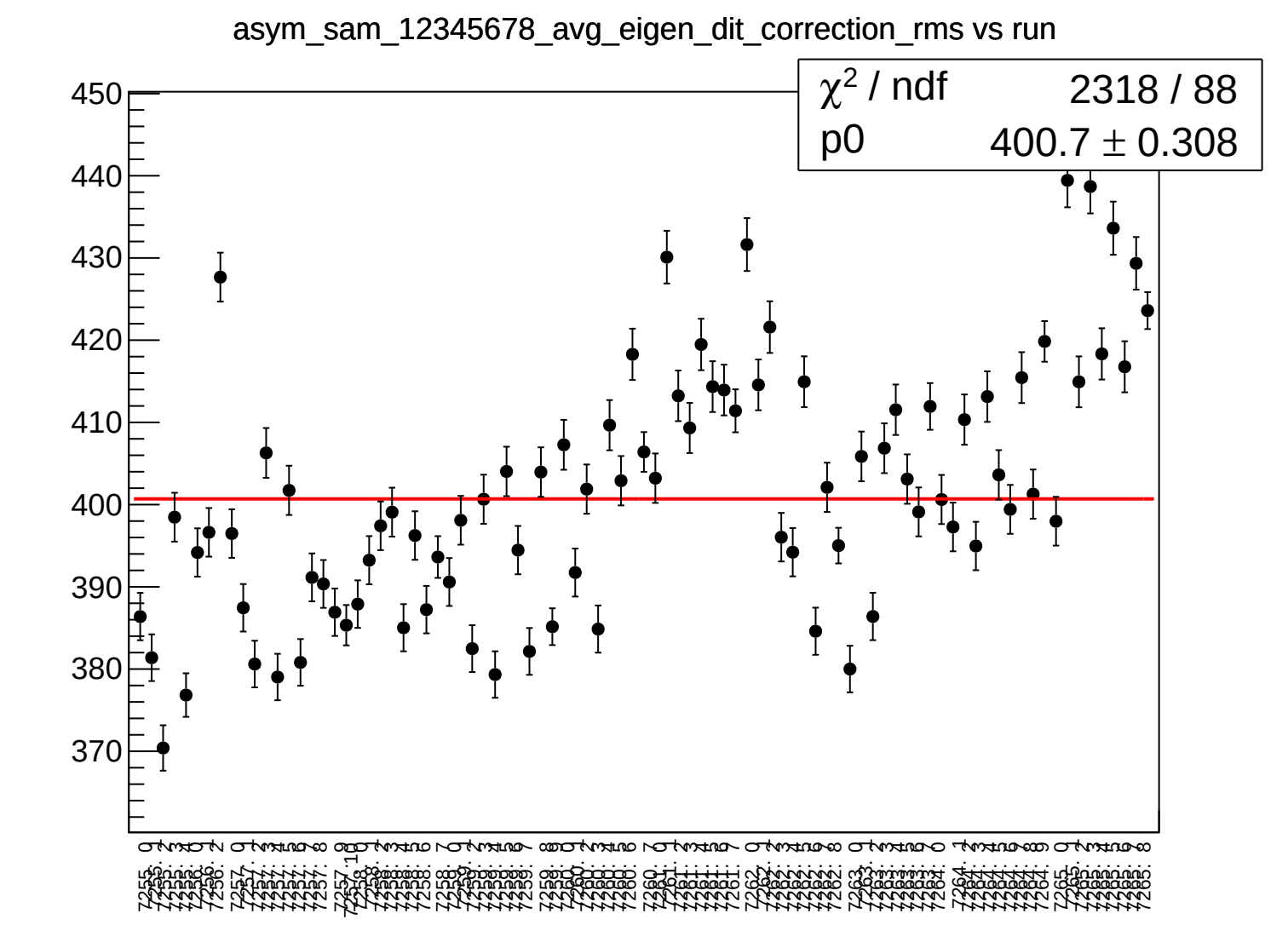

asym_sam_12345678_avg_dit_correction_rms vs run
χ^2 / ndf 2318 / 88
p0 400.7 ± 0.308
450
440
430
420
410
400
390
380
370

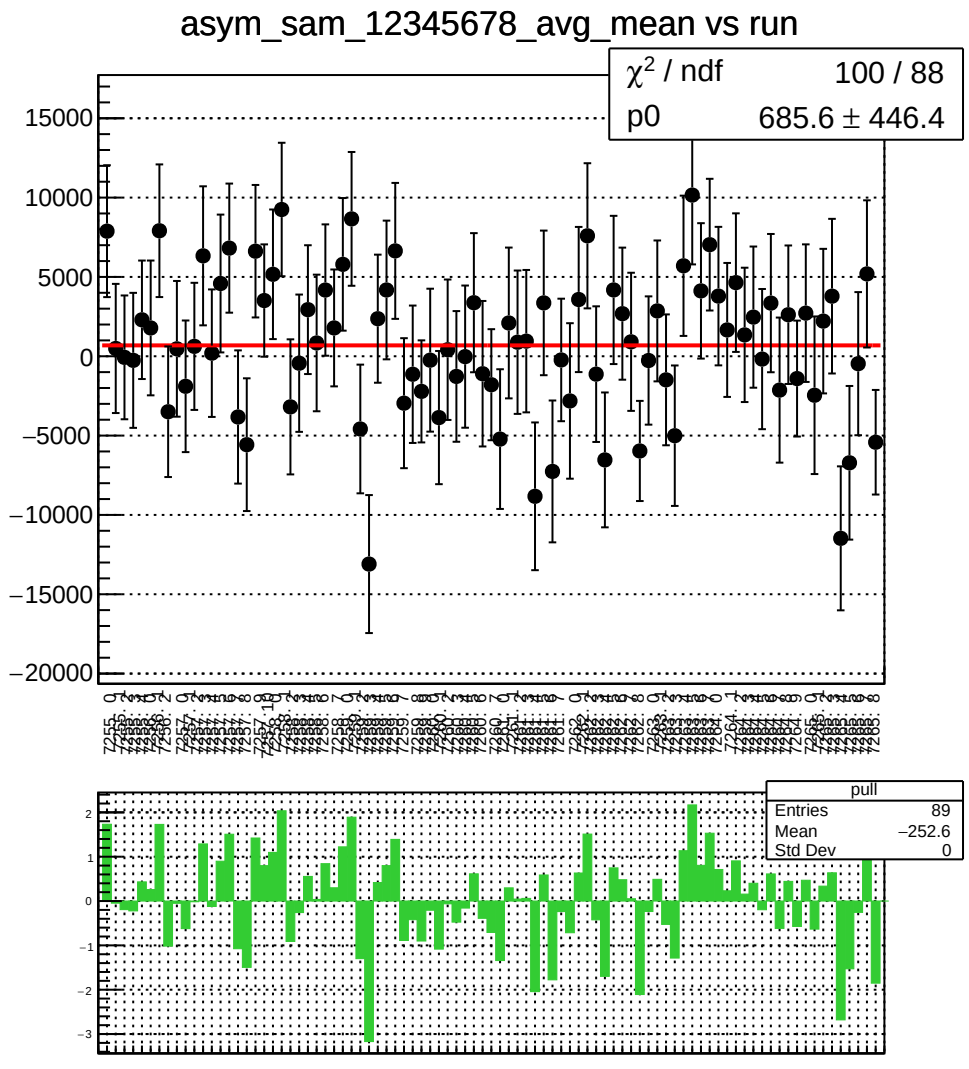

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 70.26 / 88
p0 41.5 ± 77.92
pull
Entries 89
Mean 97.67
Std Dev 0
pull1D
Entries 89
Mean −0.01528
Std Dev 0.8883

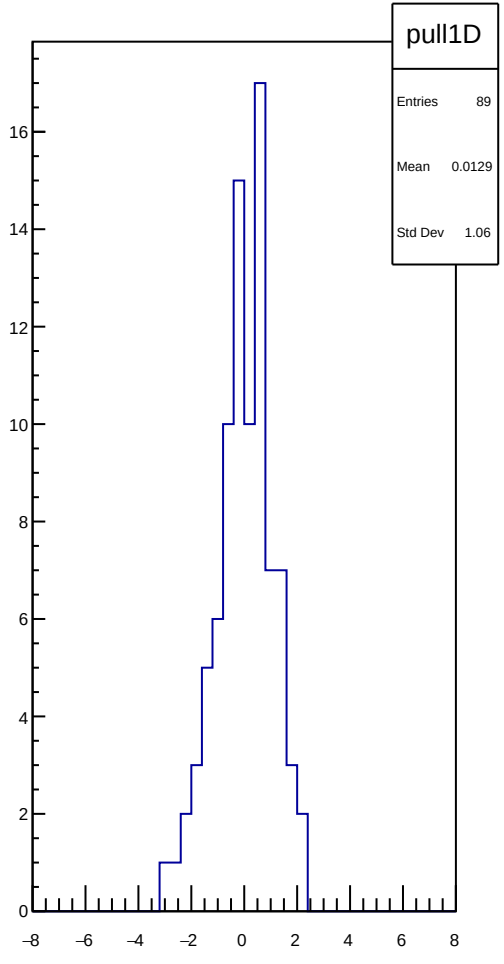

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 7.406e+04 / 88
p0 70.15 ± 0.0551
140
130
120
110
100
90
80
70
60
50

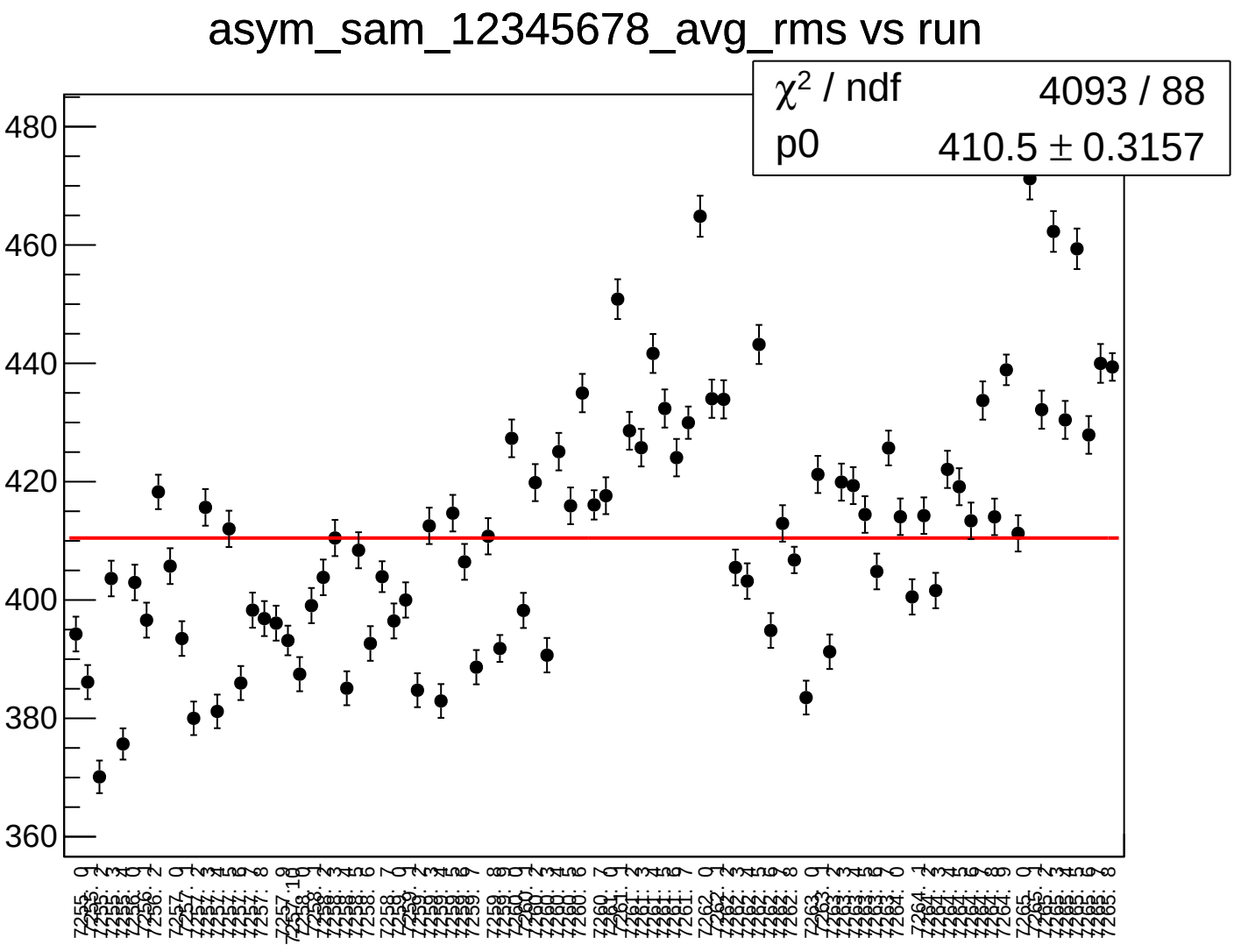

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.89 / 88
p0 −642.5 ± 435.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −184.5
Std Dev 0
3
2
1
0
−1
−2

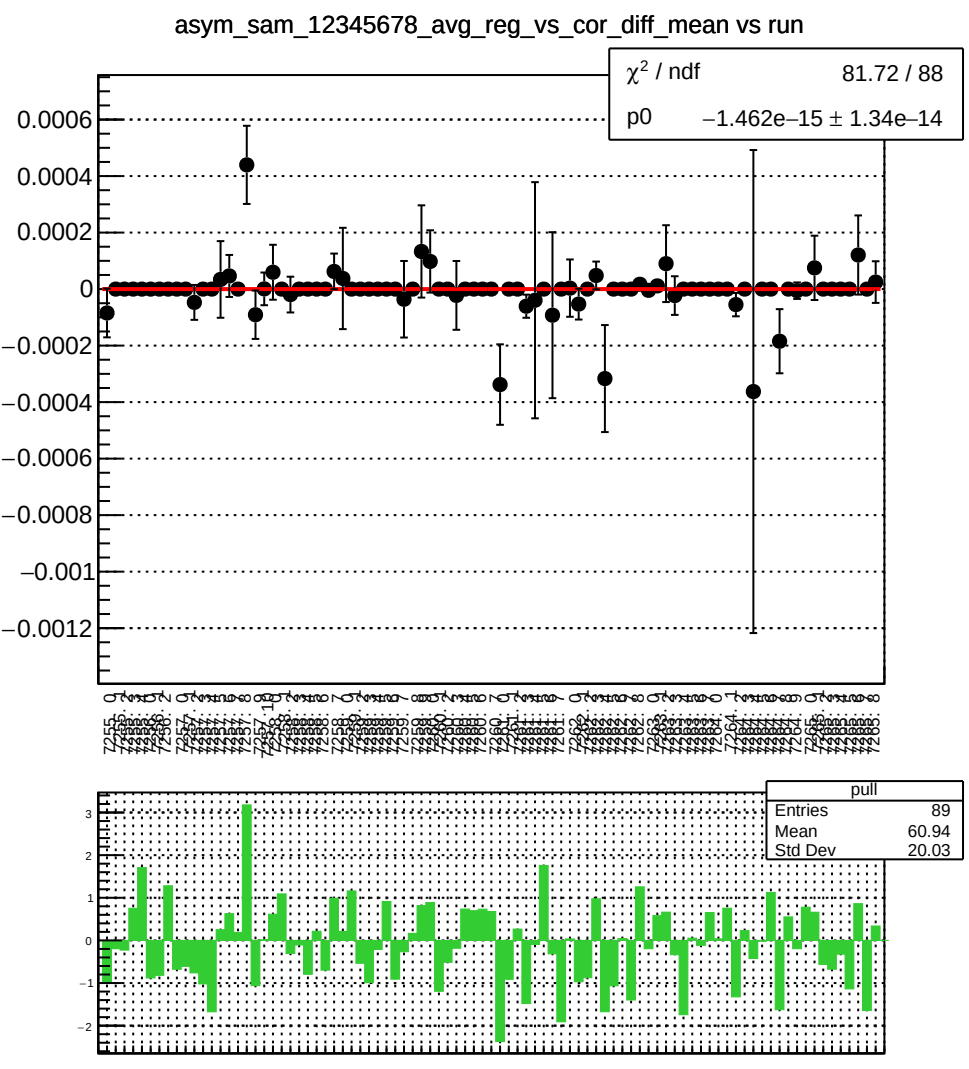

pull1D
Entries 89
Mean −0.01674
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

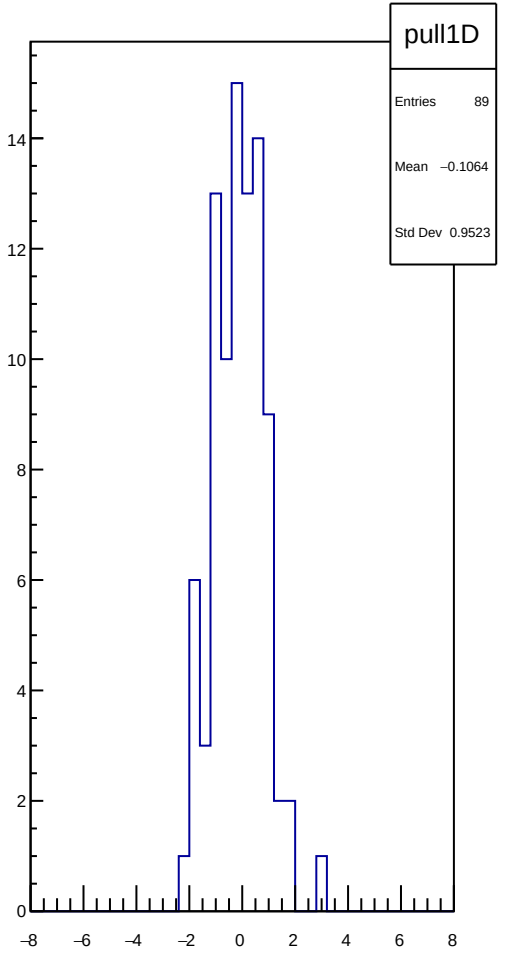

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 2318 / 88
p0 400.7 ± 0.308
450
440
430
420
410
400
390
380
370

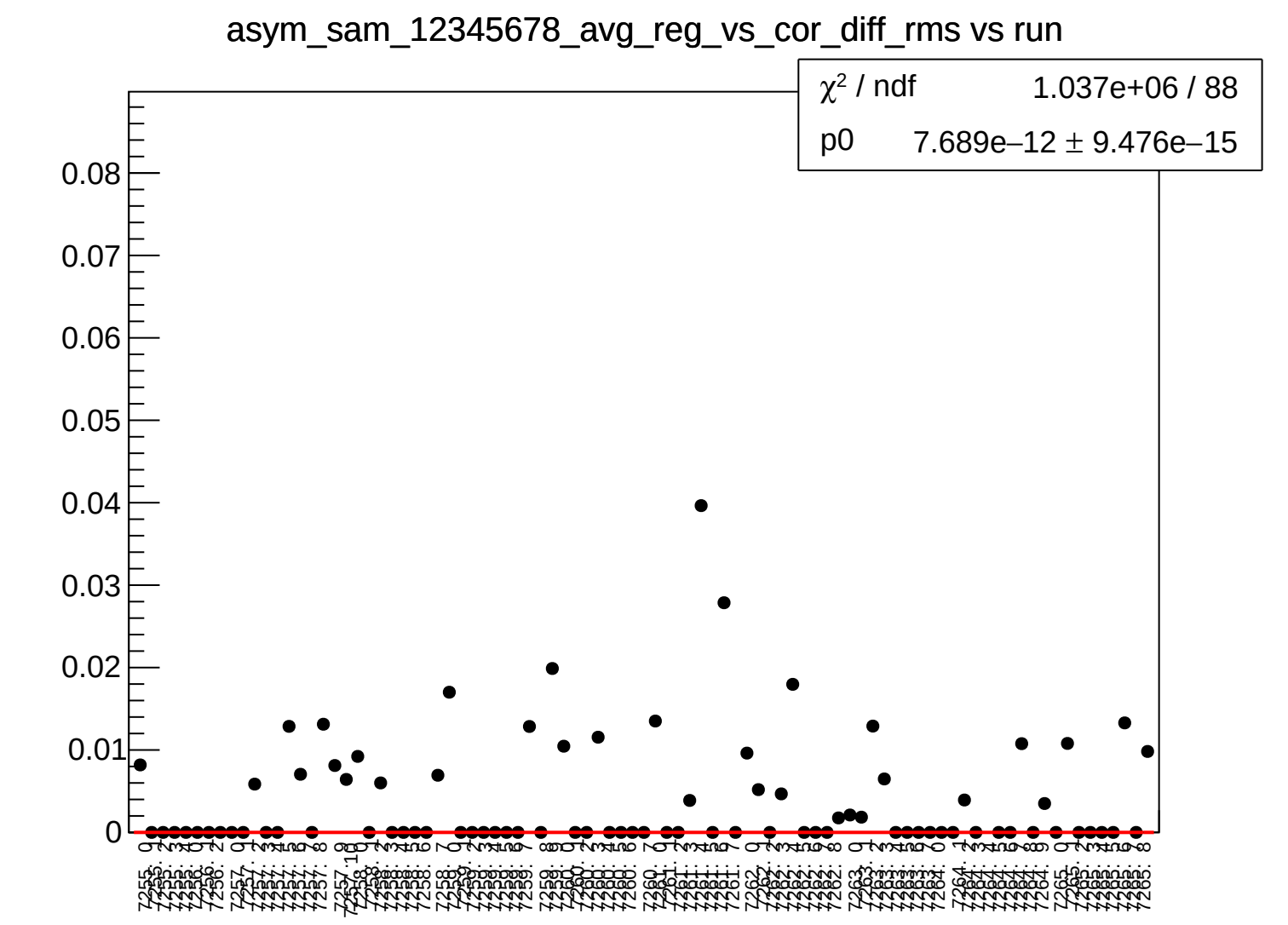

asym_sam_12345678_avg_mean vs run
χ² / ndf 100 / 88
p0 685.6 ± 446.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −252.6
Std Dev 0
2
1
0
−1
−2
−3

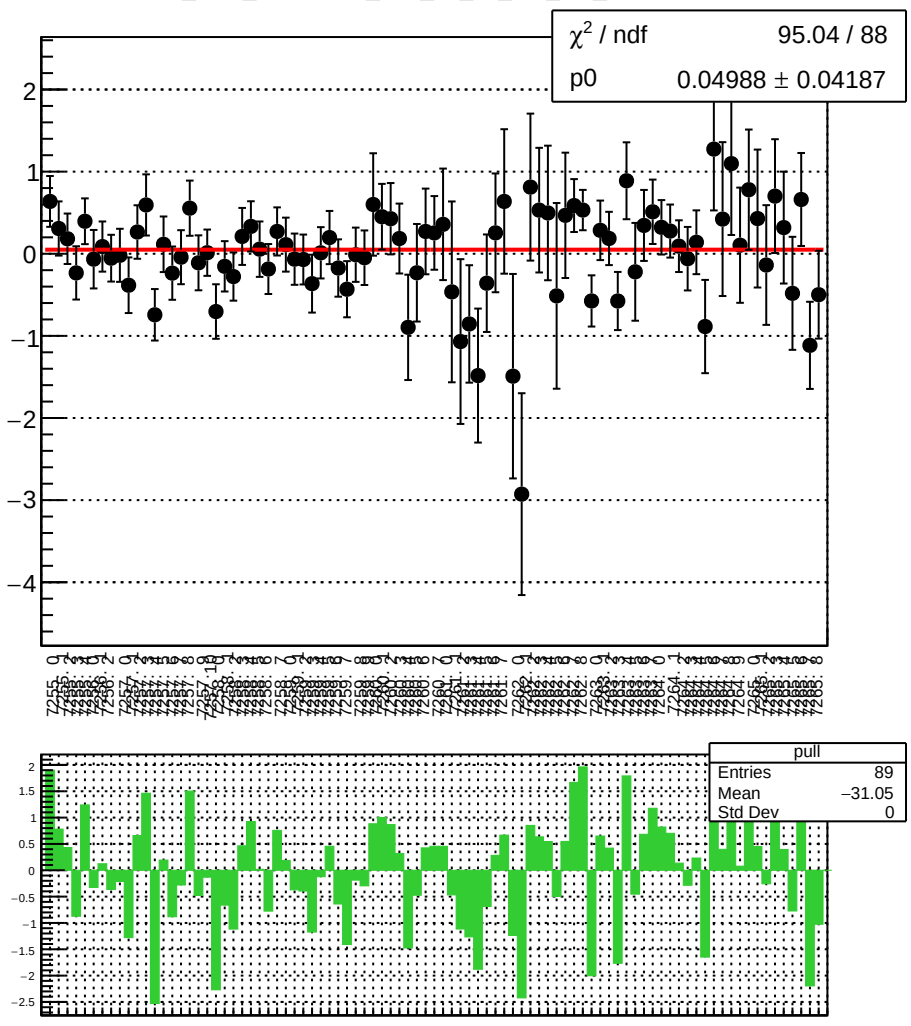

pull1D
Entries 89
Mean 0.0129
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

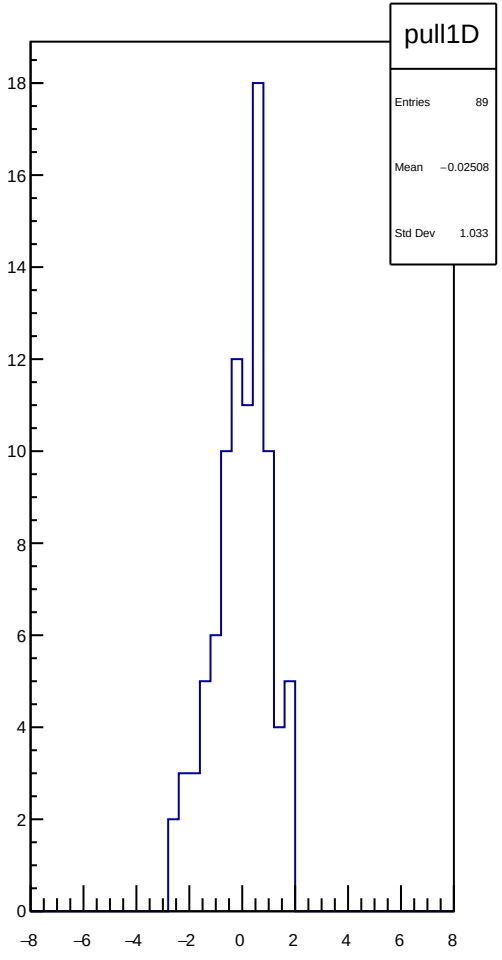

asym_sam_12345678_avg_rms vs run
χ² / ndf 4093 / 88
p0 410.5 ± 0.3157
480
460
440
420
400
380
360

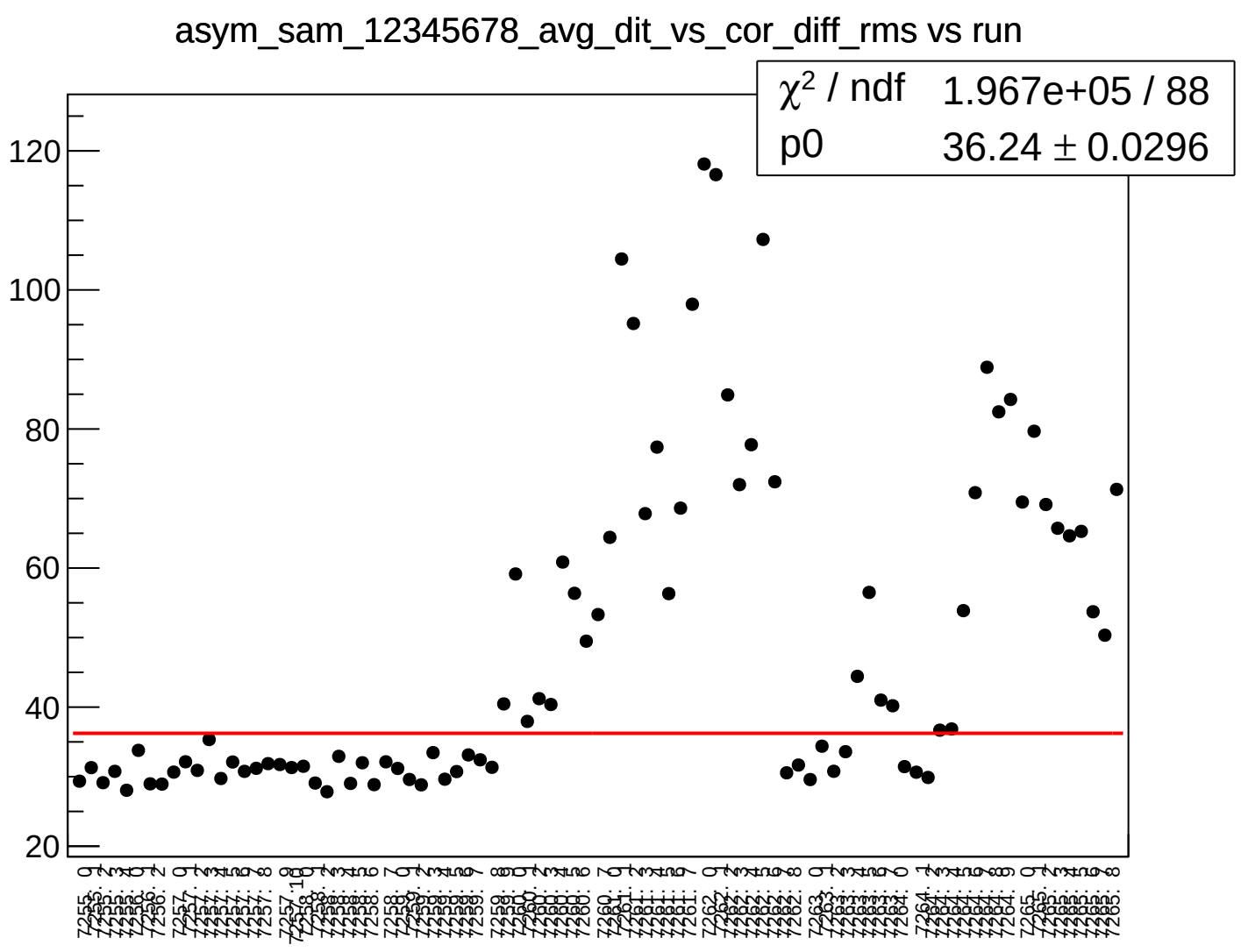

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.72 / 88
p0 −1.462e−15 ± 1.34e−14
pull
Entries 89
Mean 60.94
Std Dev 20.03

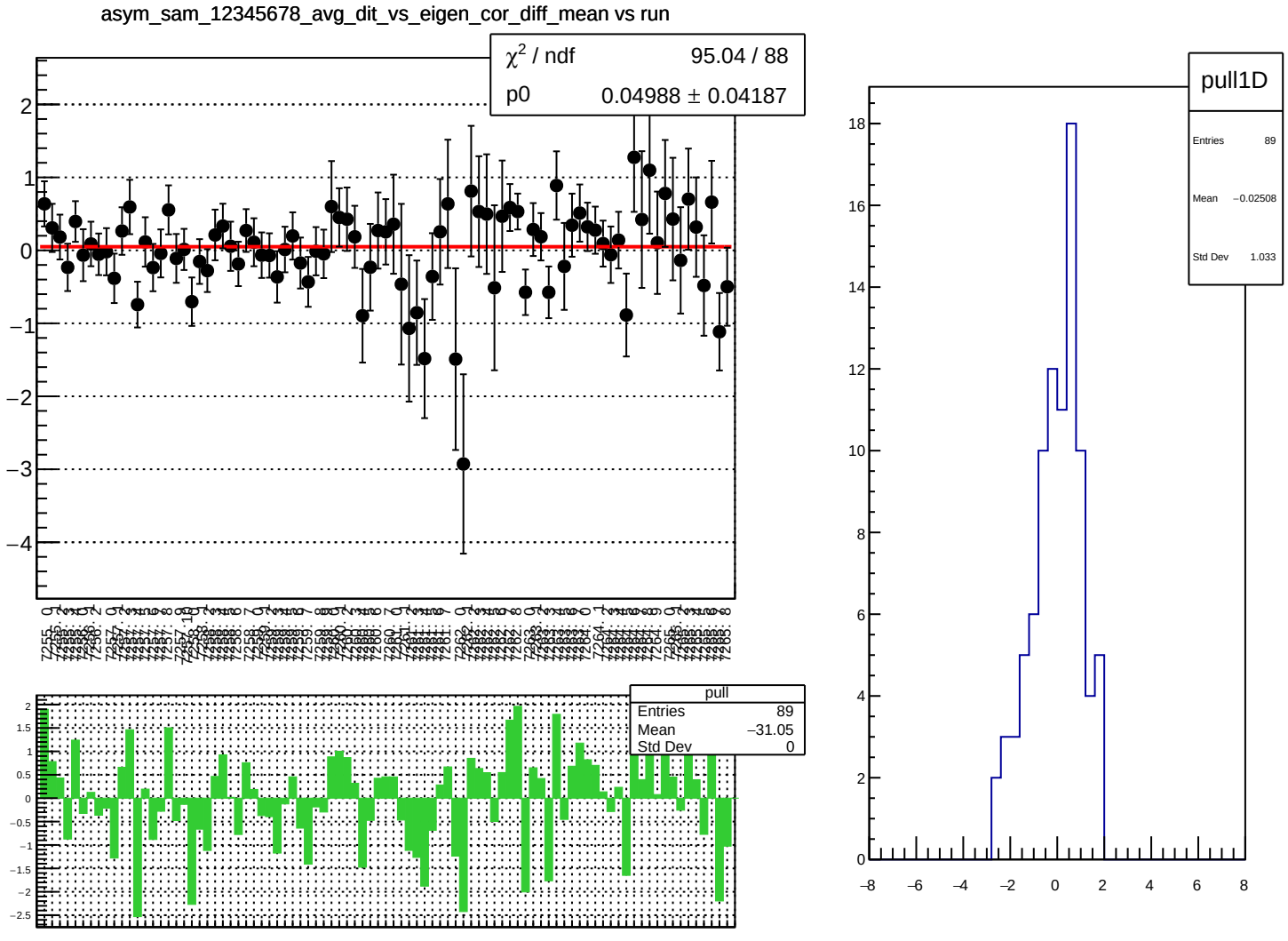

pull1D
Entries 89
Mean −0.1064
Std Dev 0.9523

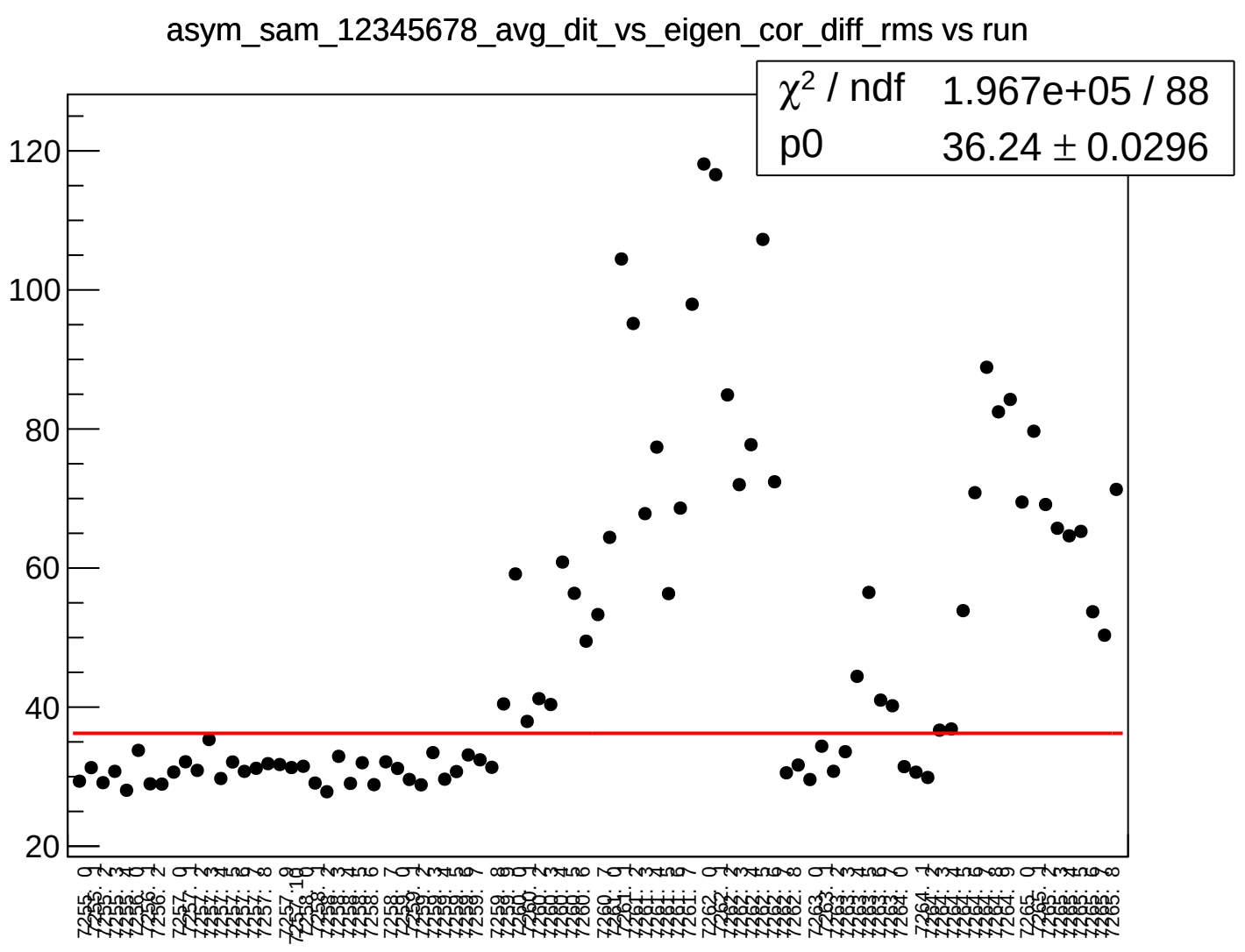

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.037e+06 / 88
p0 7.689e−12 ± 9.476e−15
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

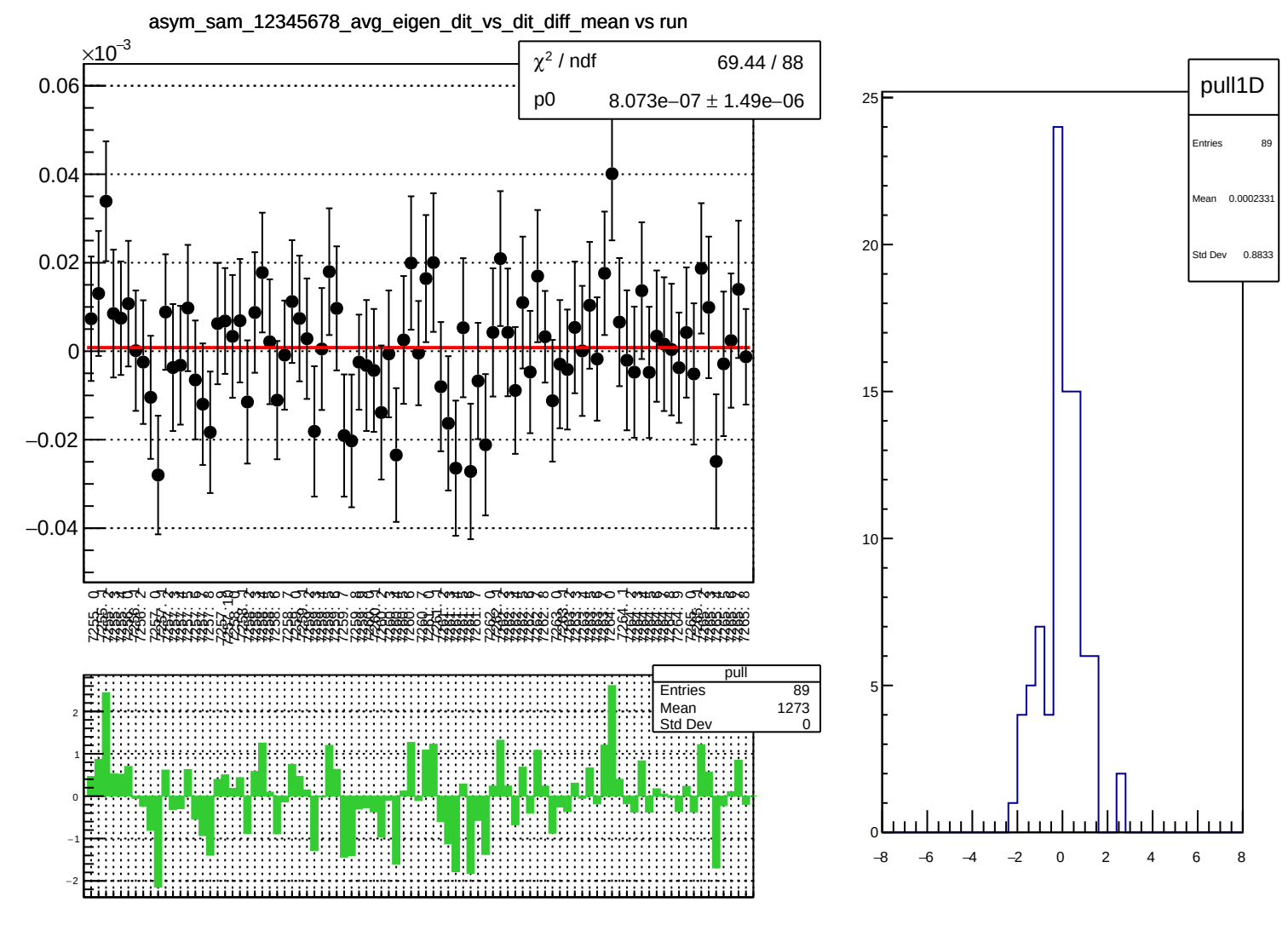

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.04 / 88
p0 0.04988 ± 0.04187
pull
Entries 89
Mean −31.05
Std Dev 0

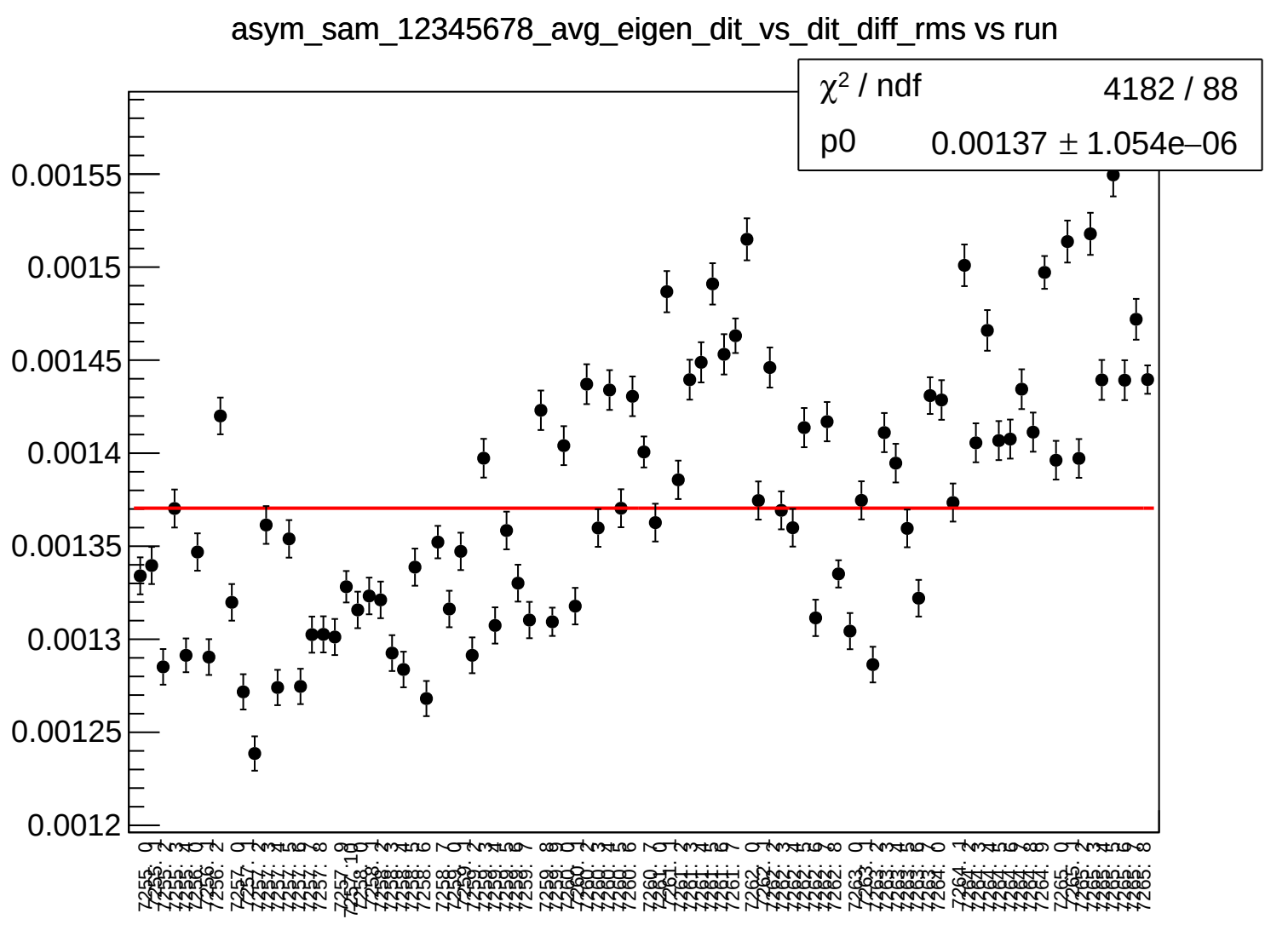

pull1D
Entries 89
Mean −0.02508
Std Dev 1.033

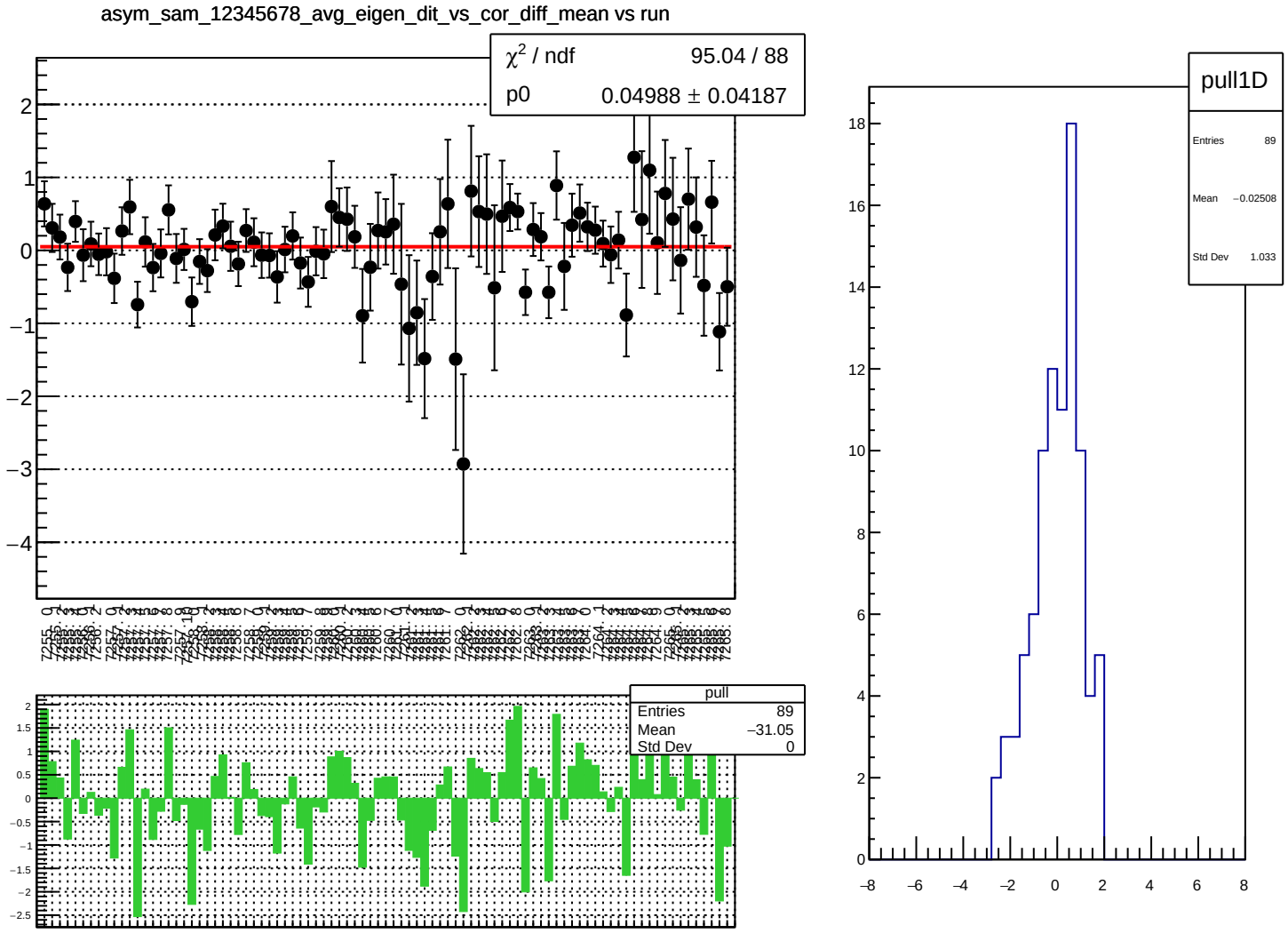

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.967e+05 / 88
p0 36.24 ± 0.0296
120
100
80
60
40
20

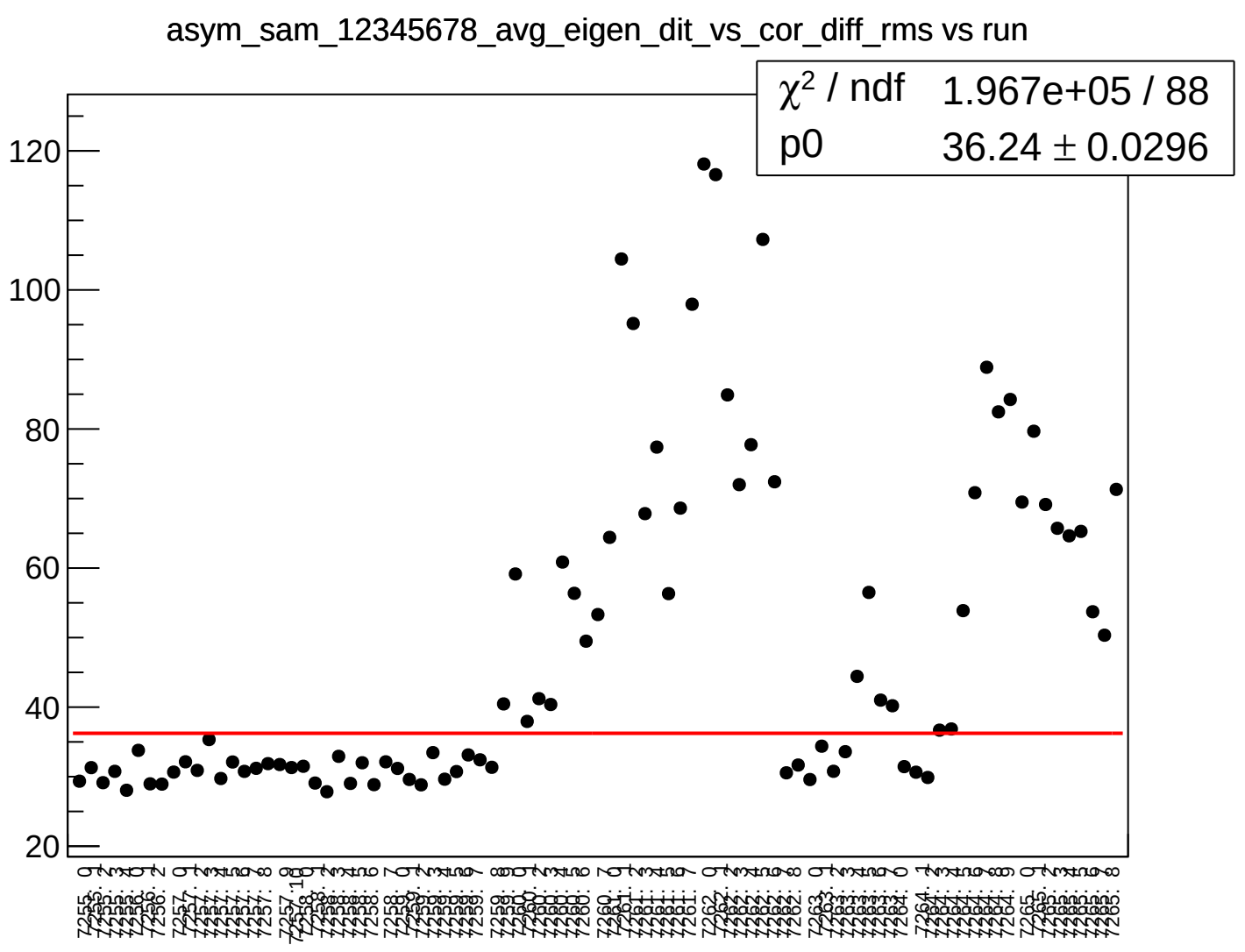

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.04 / 88
p0 0.04988 ± 0.04187
pull
Entries 89
Mean −31.05
Std Dev 0
pull1D
Entries 89
Mean −0.02508
Std Dev 1.033

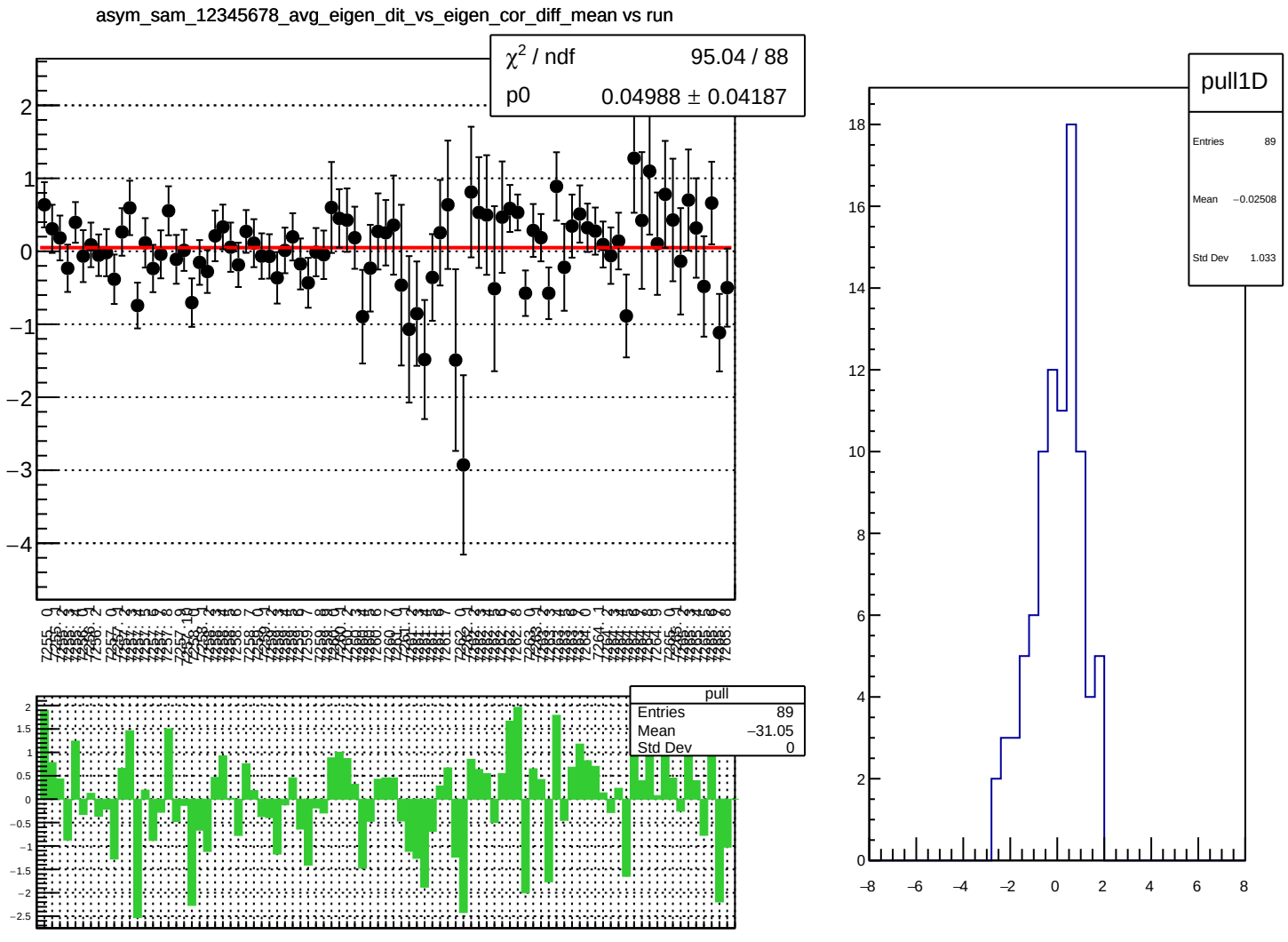

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.967e+05 / 88
p0 36.24 ± 0.0296
120
100
80
60
40
20

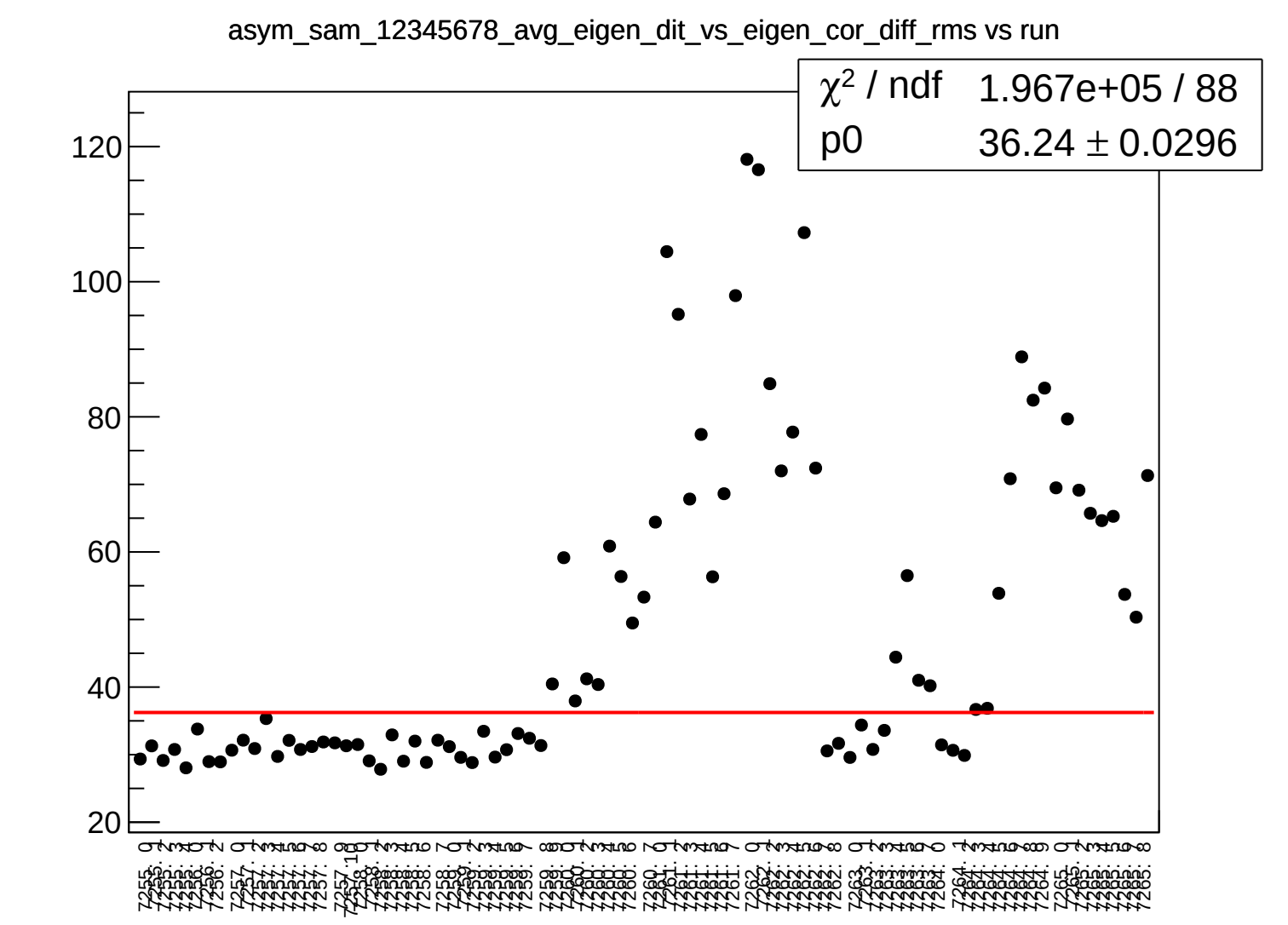

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.44 / 88
p0 8.073e−07 ± 1.49e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean 1273
Std Dev 0
pull1D
Entries 89
Mean 0.0002331
Std Dev 0.8833
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

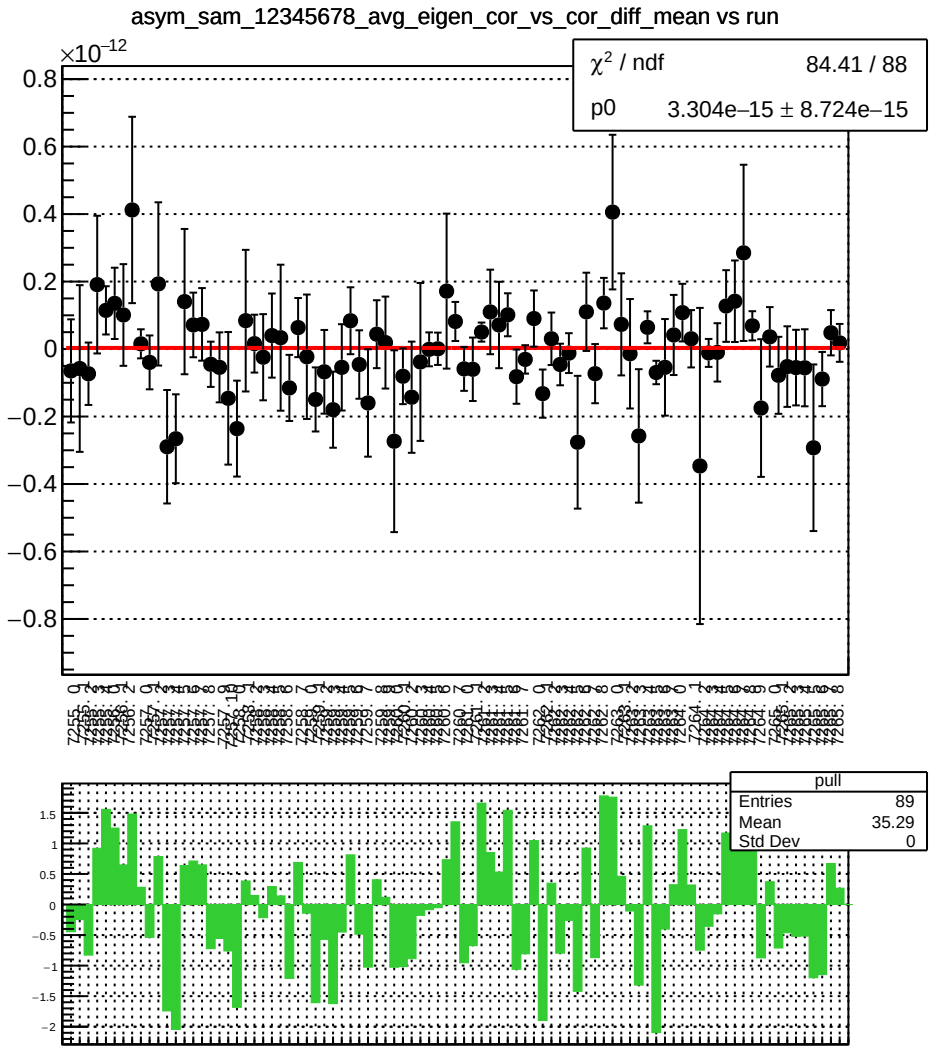

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4182 / 88
p0 0.00137 ± 1.054e−06
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012

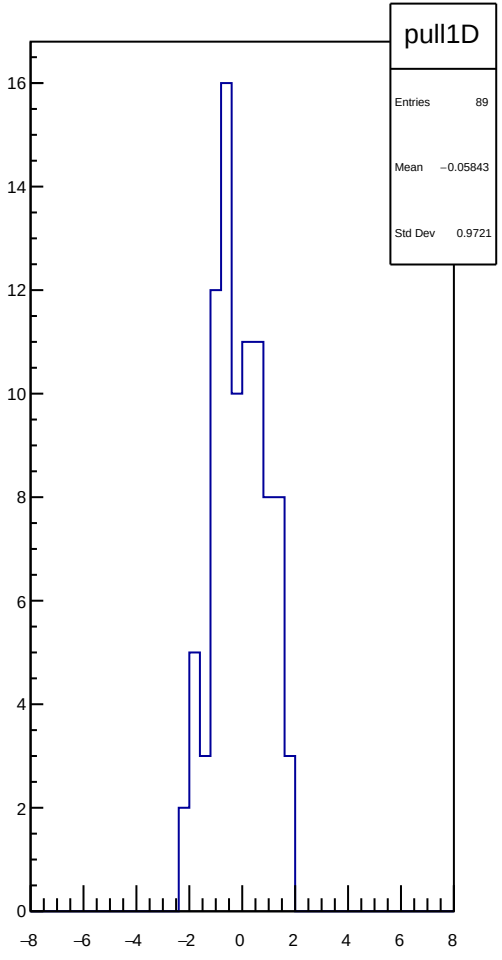

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.04 / 88
p0 0.04988 ± 0.04187
pull
Entries 89
Mean −31.05
Std Dev 0
pull1D
Entries 89
Mean −0.02508
Std Dev 1.033

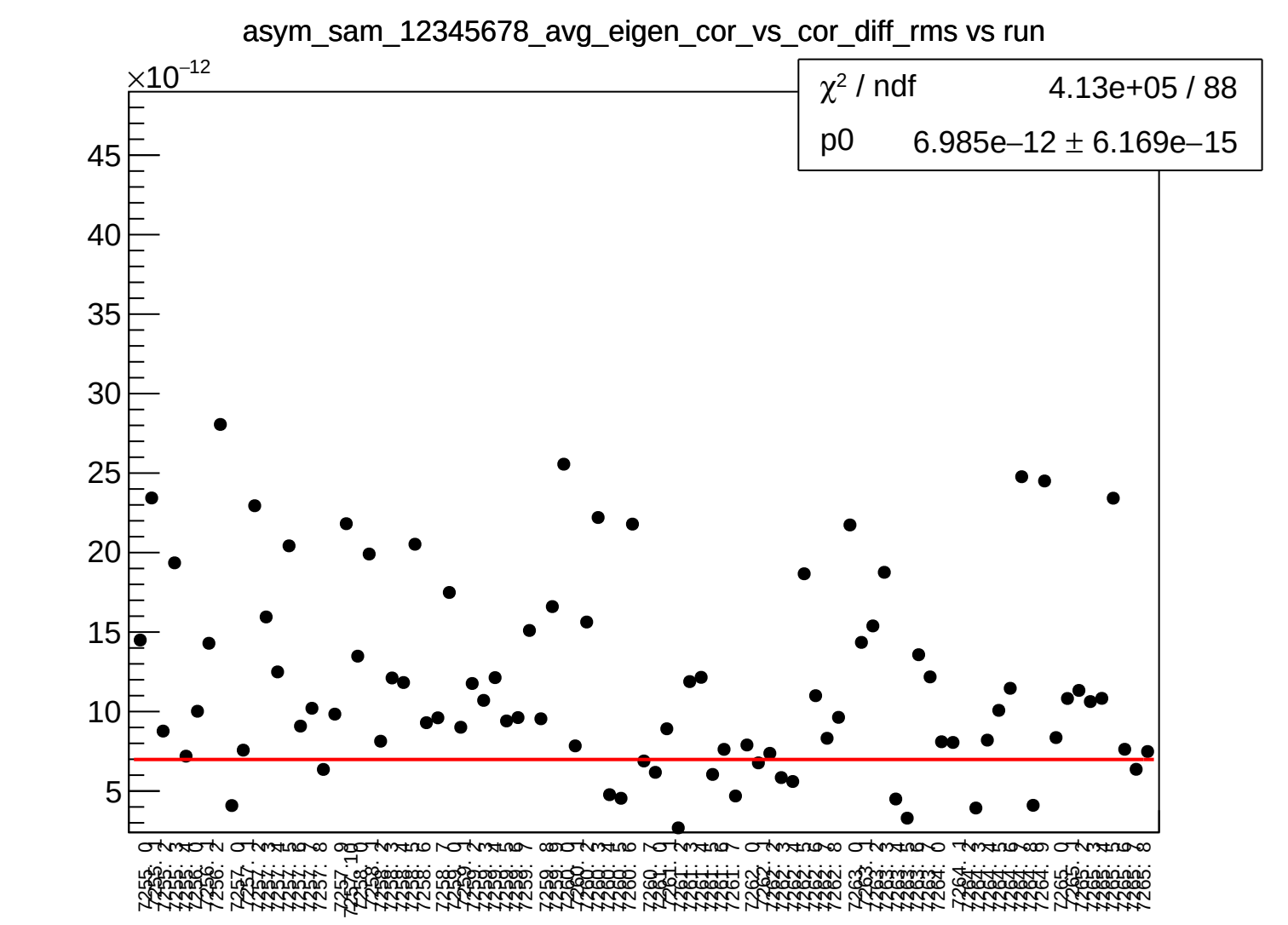

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.967e+05 / 88
p0 36.24 ± 0.0296
120
100
80
60
40
20

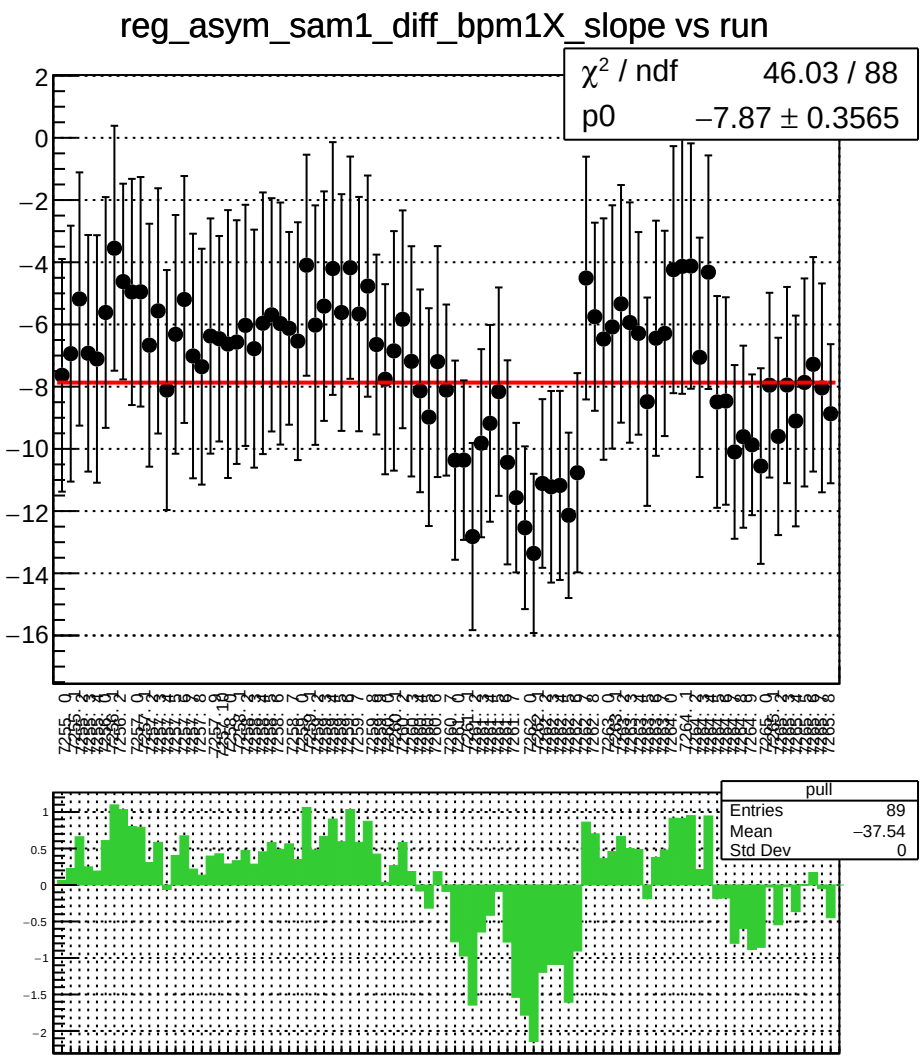

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.04 / 88
p0 0.04988 ± 0.04187
pull
Entries 89
Mean −31.05
Std Dev 0
pull1D
Entries 89
Mean −0.02508
Std Dev 1.033

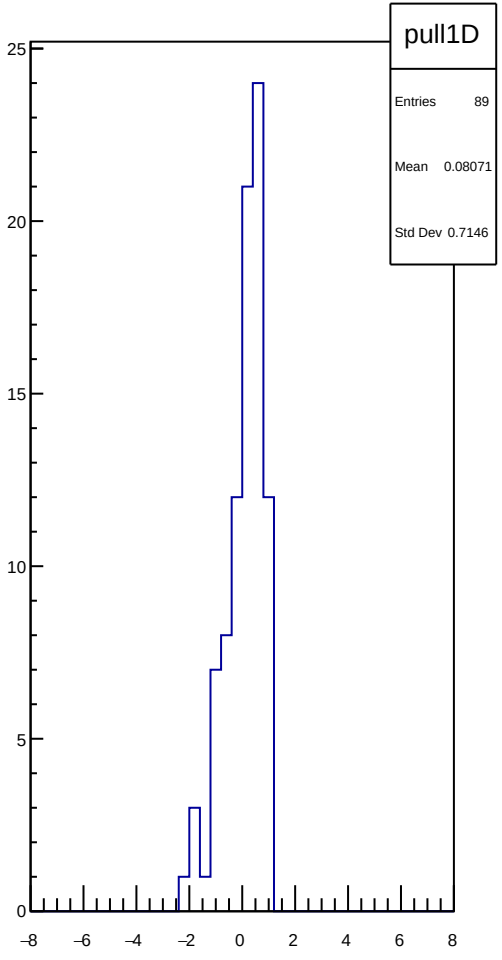

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.967e+05 / 88
p0 36.24 ± 0.0296
120
100
80
60
40
20

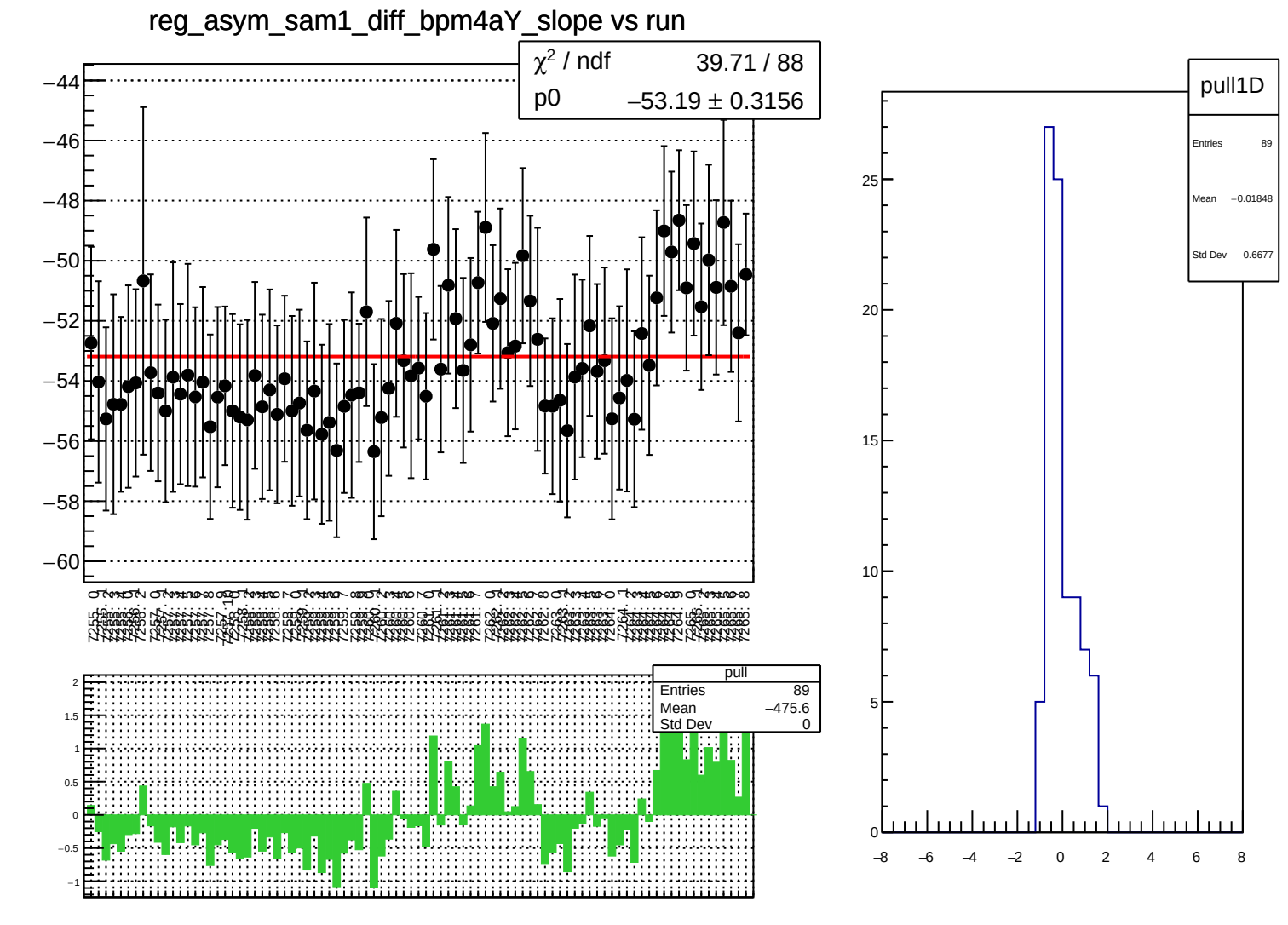

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.41 / 88
p0 3.304e−15 ± 8.724e−15
pull
Entries 89
Mean 35.29
Std Dev 0

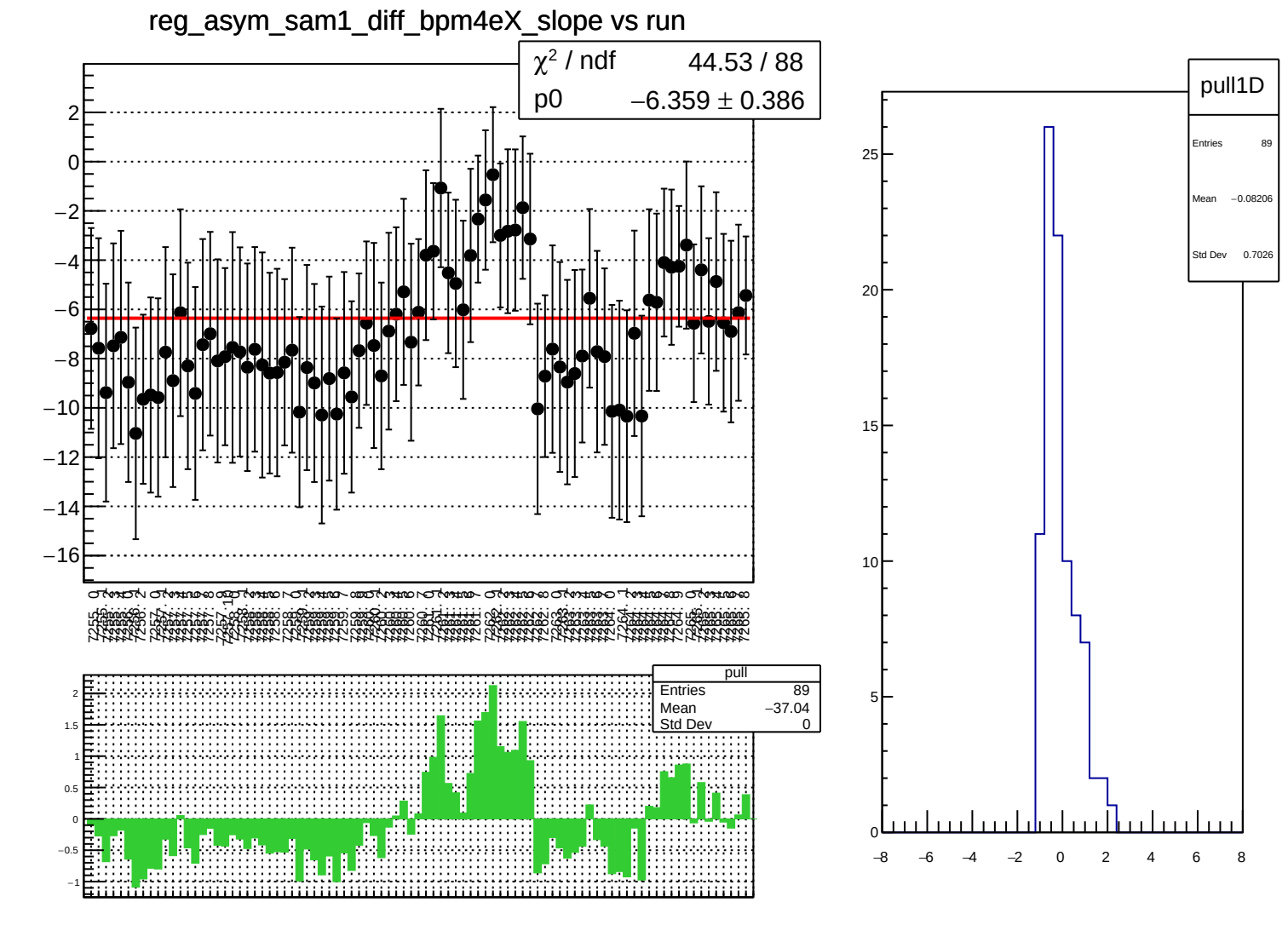

pull1D
Entries 89
Mean −0.05843
Std Dev 0.9721

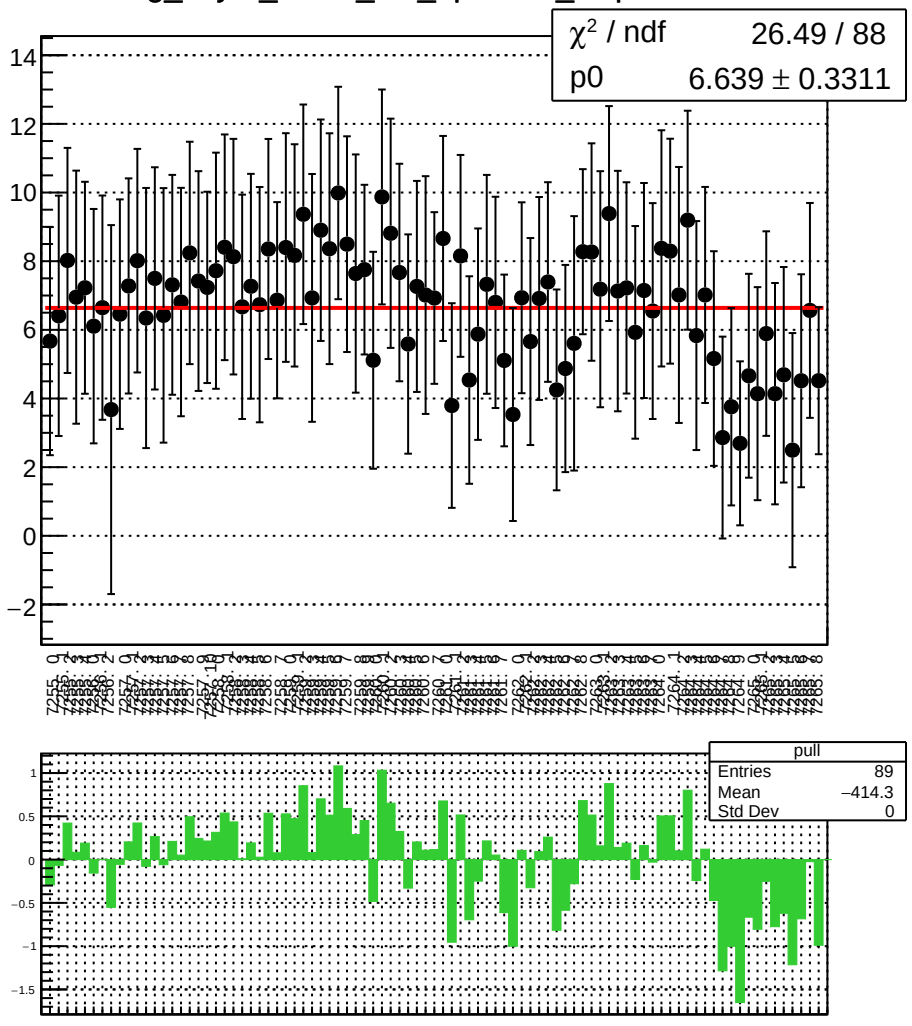

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.13e+05 / 88
p0 6.985e−12 ± 6.169e−15
45
40
35
30
25
20
15
10
5

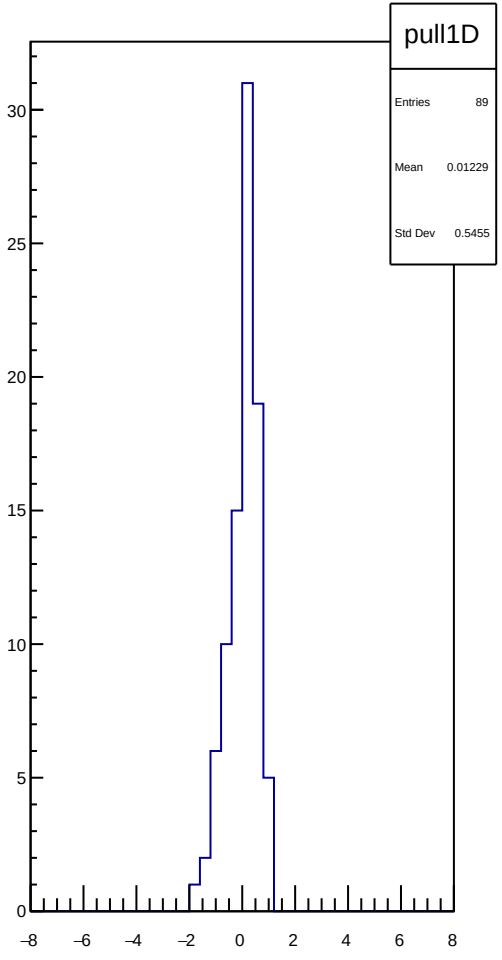

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 46.03 / 88
p0 −7.87 ± 0.3565
pull
Entries 89
Mean −37.54
Std Dev 0

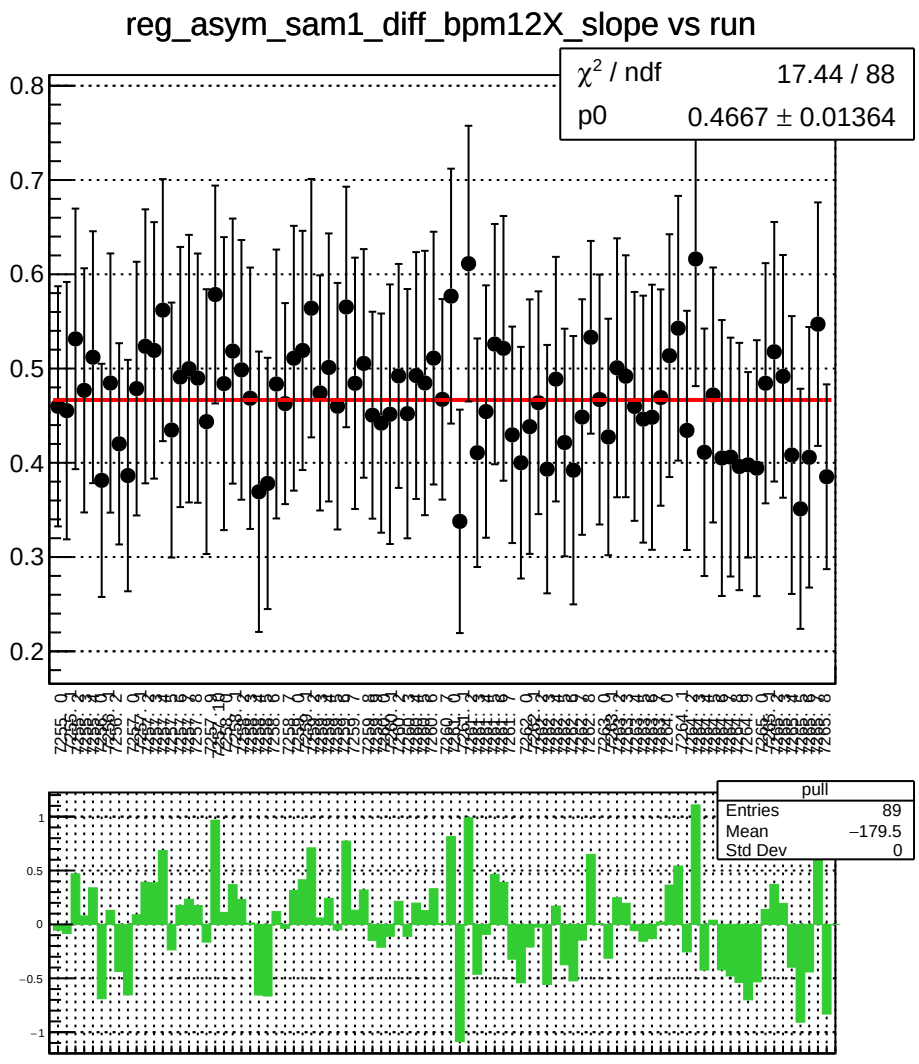

pull1D
Entries 89
Mean 0.08071
Std Dev 0.7146

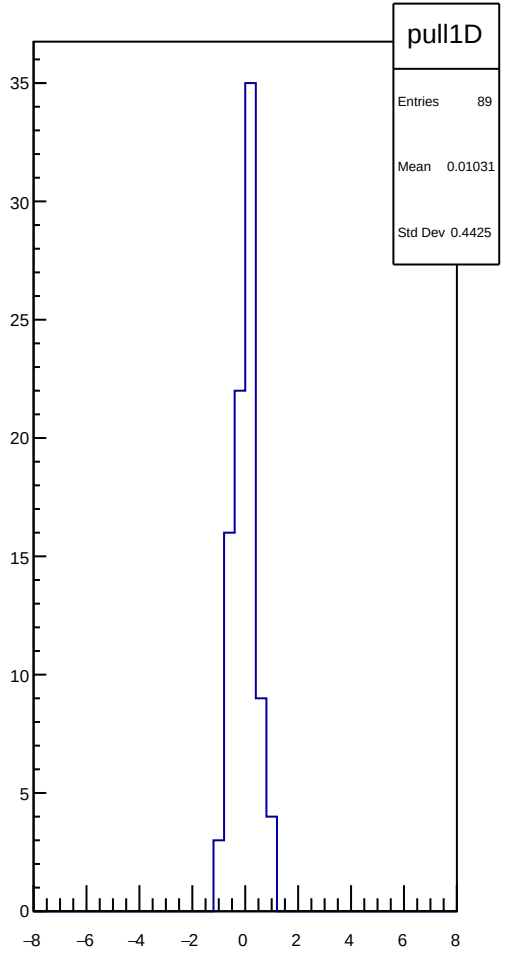

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 39.71 / 88
p0 −53.19 ± 0.3156
pull
Entries 89
Mean −475.6
Std Dev 0
pull1D
Entries 89
Mean −0.01848
Std Dev 0.6677

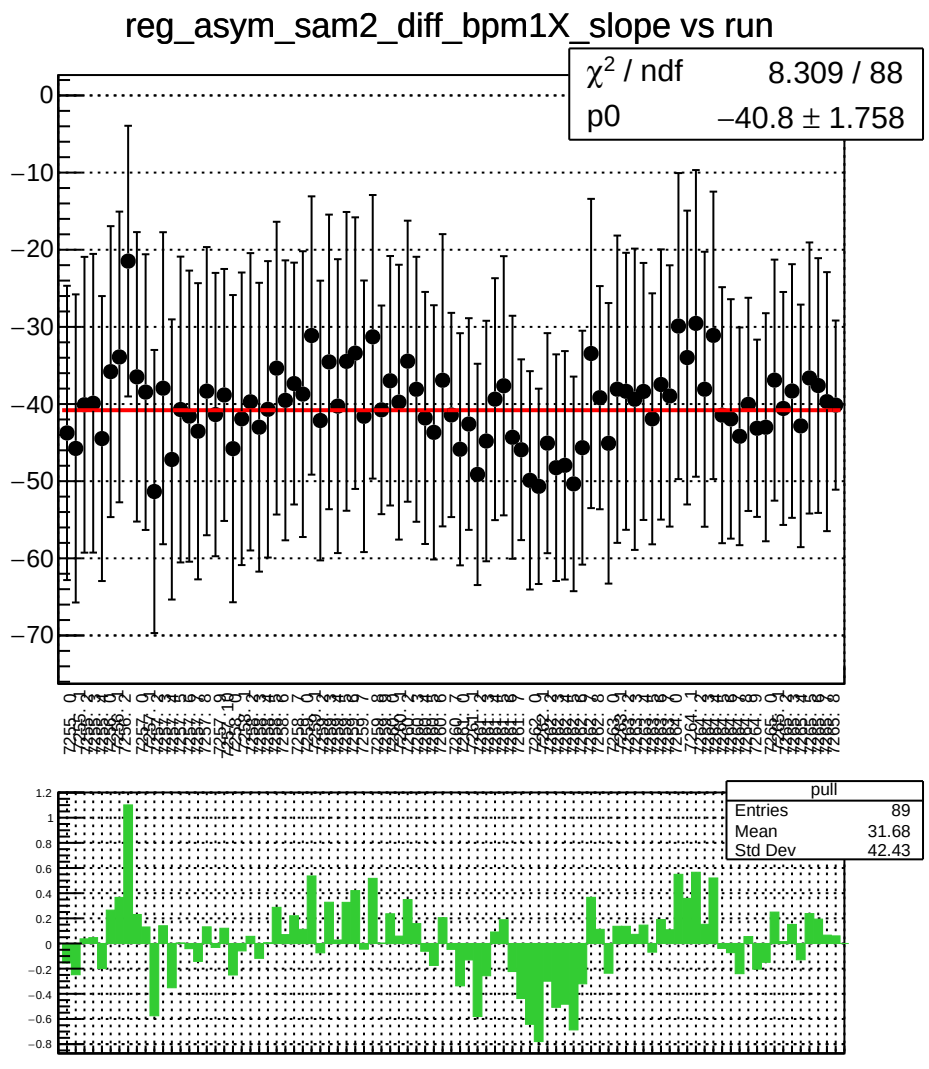

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 44.53 / 88
p0 −6.359 ± 0.386
pull
Entries 89
Mean −37.04
Std Dev 0
pull1D
Entries 89
Mean −0.08206
Std Dev 0.7026

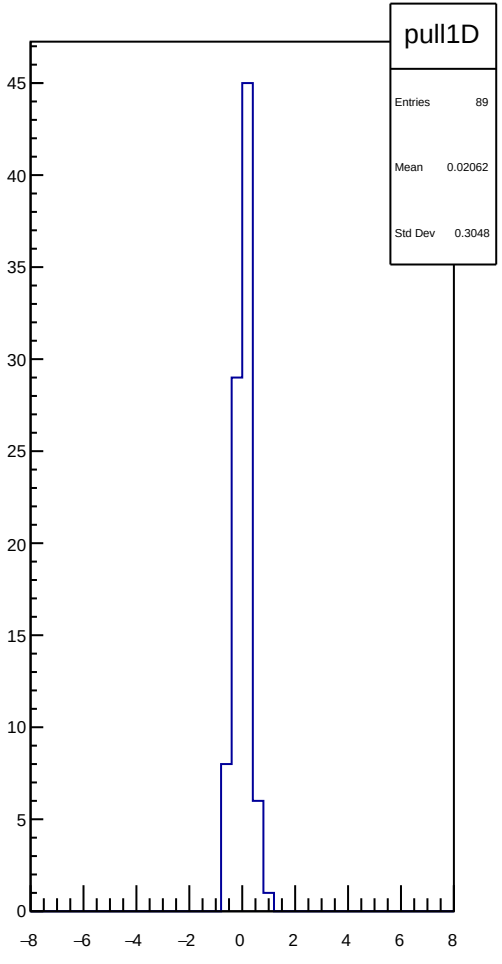

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 26.49 / 88
p0 6.639 ± 0.3311
pull
Entries 89
Mean −414.3
Std Dev 0

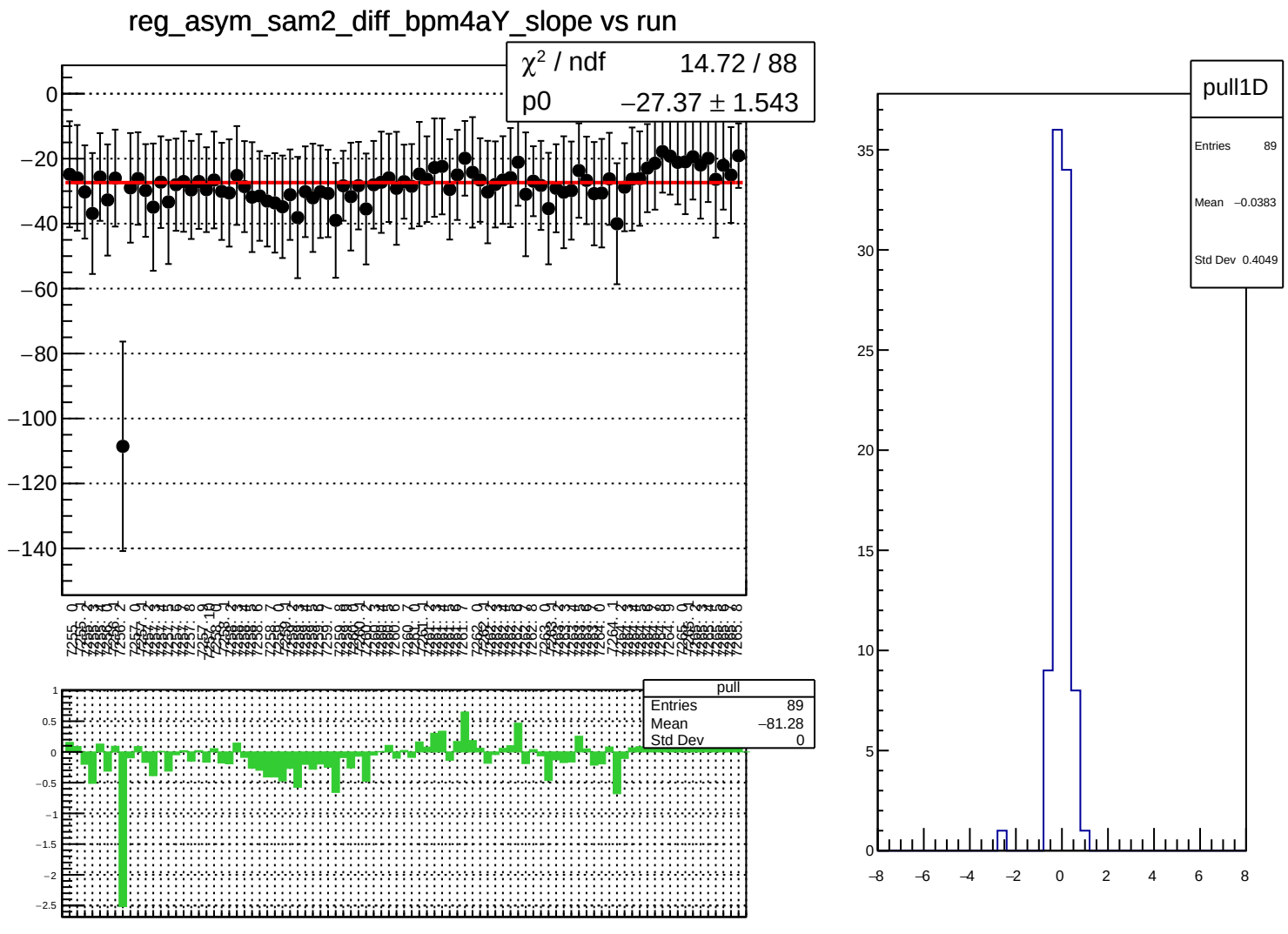

pull1D
Entries 89
Mean 0.01229
Std Dev 0.5455

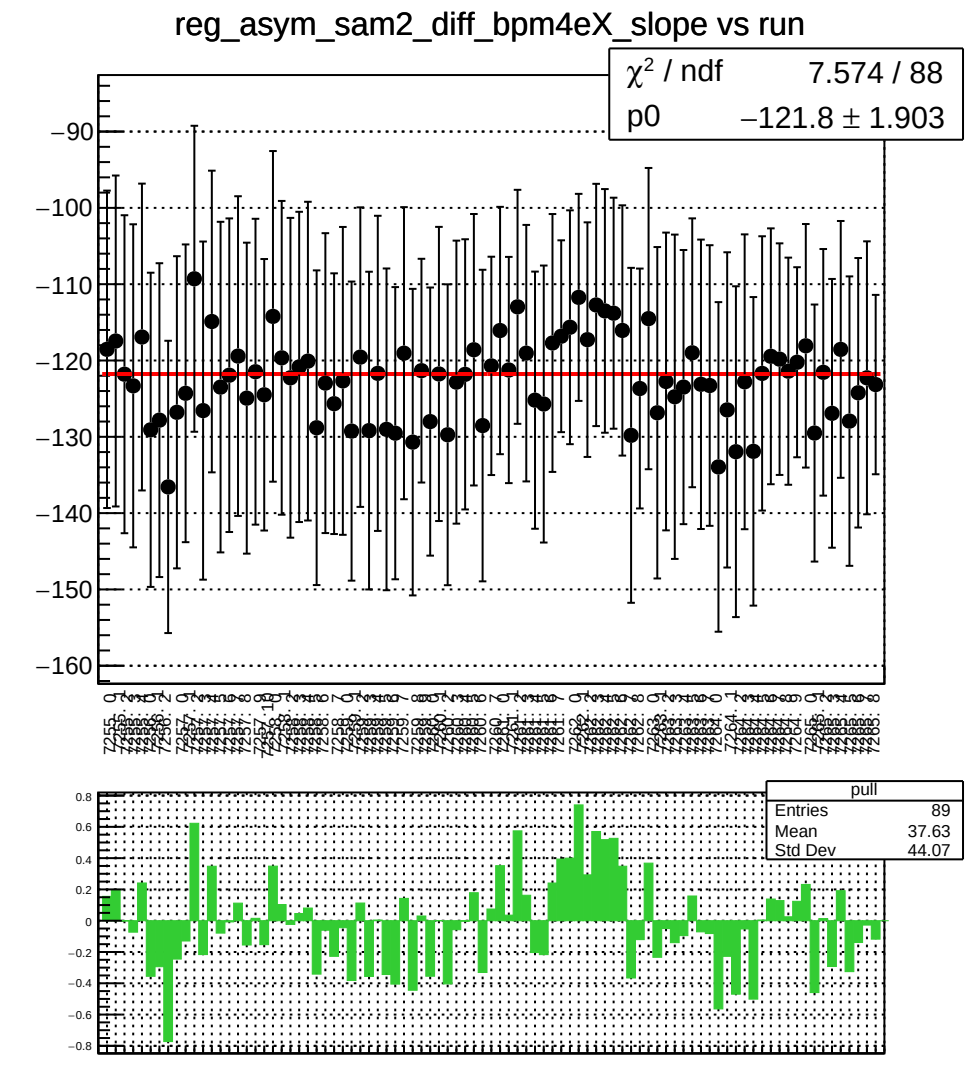

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 17.44 / 88
p0 0.4667 ± 0.01364
pull
Entries 89
Mean −179.5
Std Dev 0

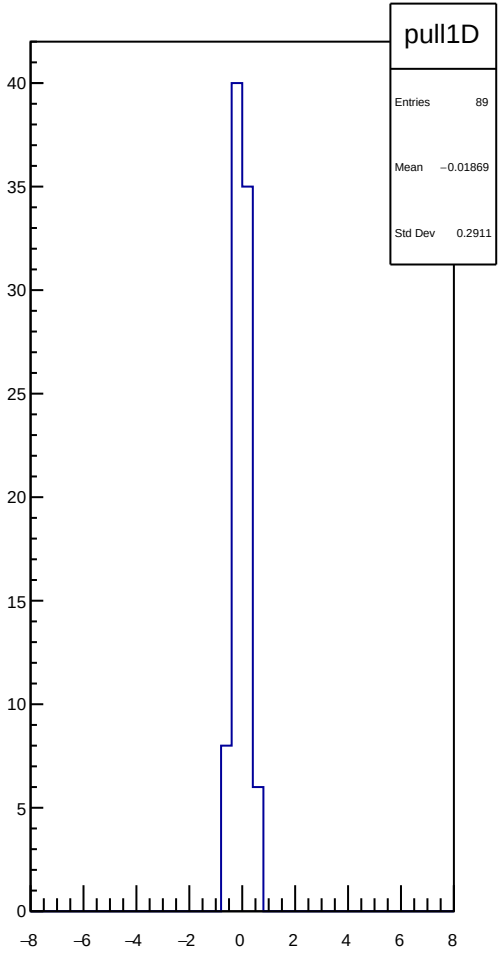

pull1D
Entries 89
Mean 0.01031
Std Dev 0.4425

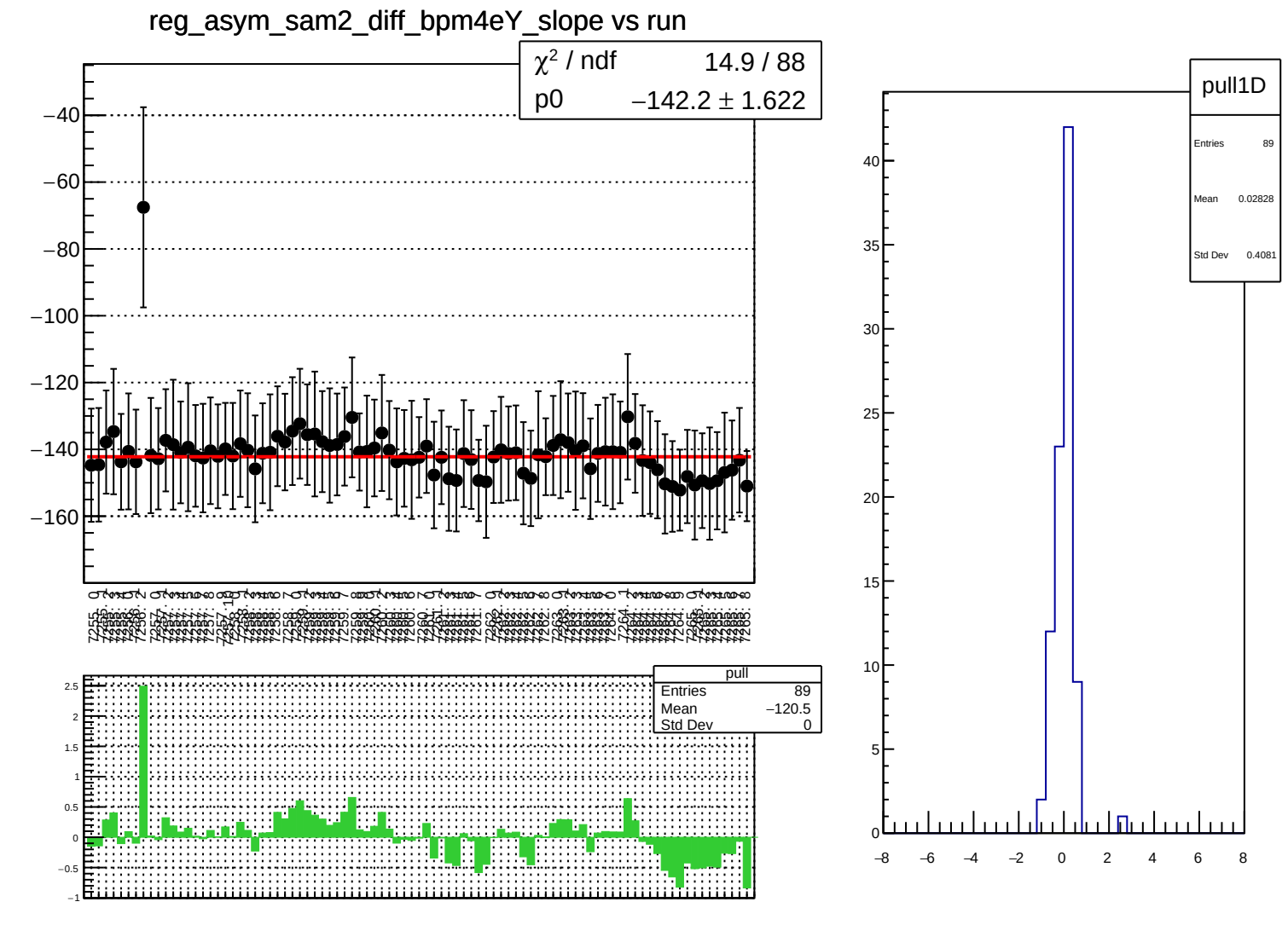

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 8.309 / 88
p0 −40.8 ± 1.758
pull
Entries 89
Mean 31.68
Std Dev 42.43

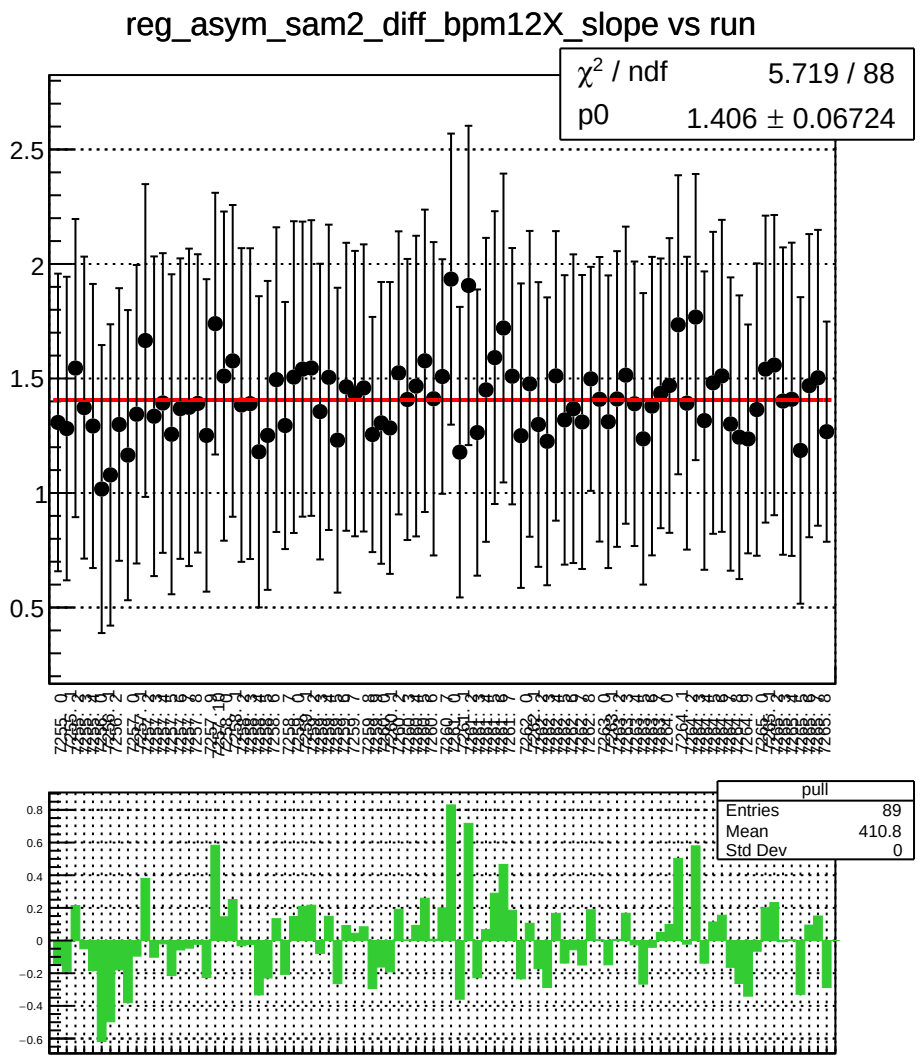

pull1D
Entries 89
Mean 0.02062
Std Dev 0.3048

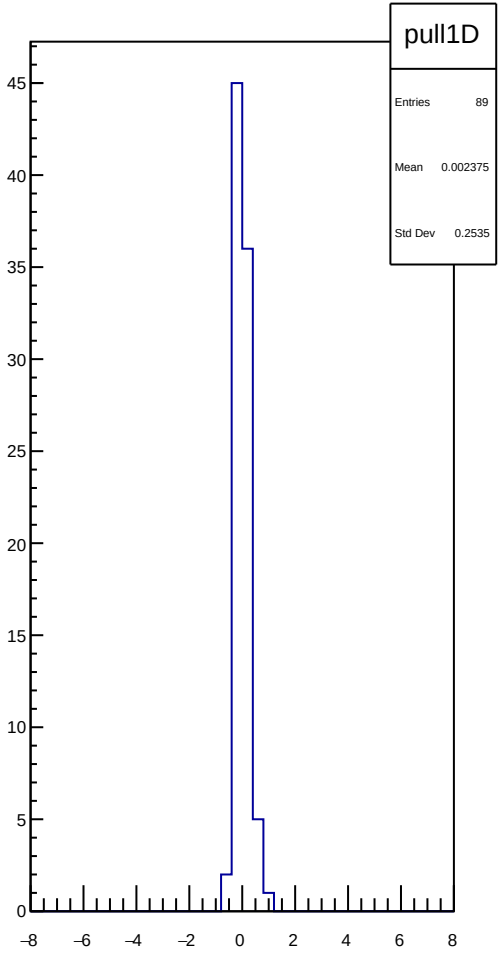

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 14.72 / 88
p0 −27.37 ± 1.543
pull
Entries 89
Mean −81.28
Std Dev 0
pull1D
Entries 89
Mean −0.0383
Std Dev 0.4049

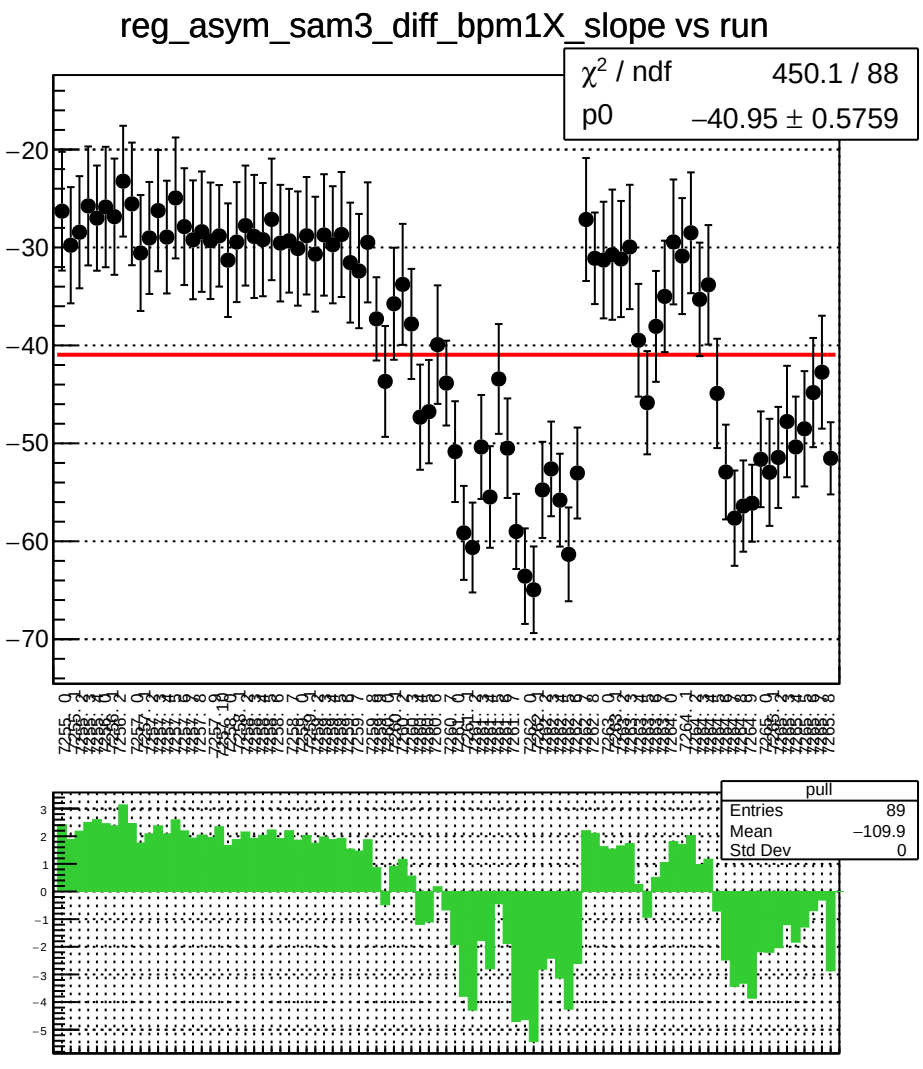

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 7.574 / 88
p0 −121.8 ± 1.903
pull
Entries 89
Mean 37.63
Std Dev 44.07

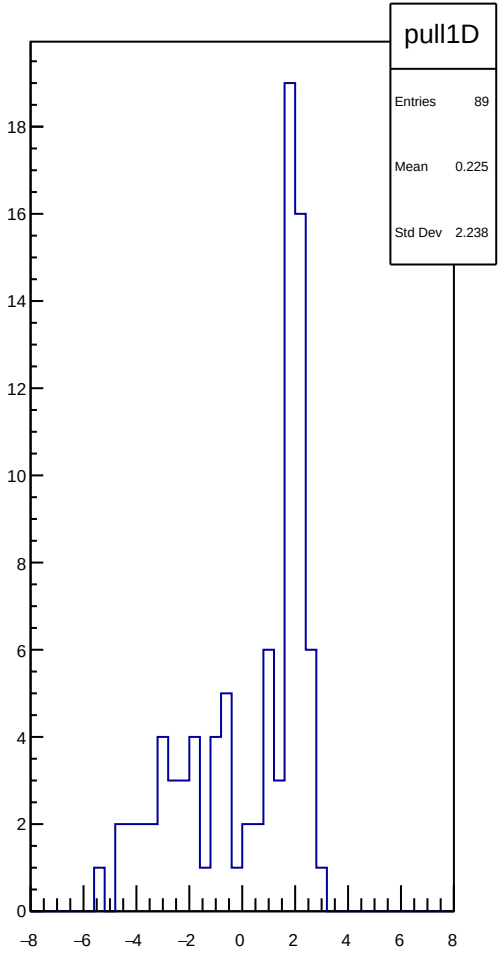

pull1D
Entries 89
Mean −0.01869
Std Dev 0.2911

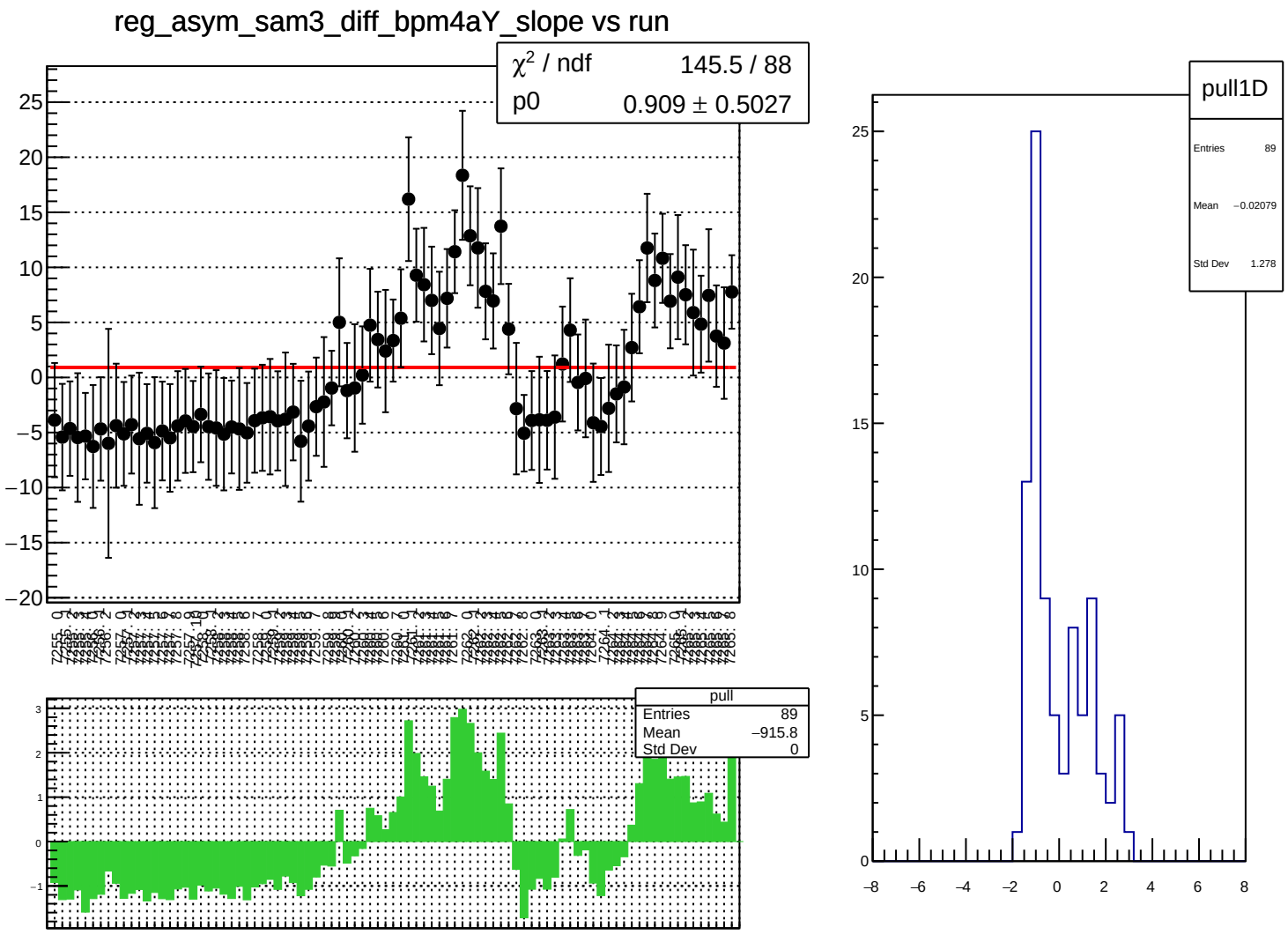

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 14.9 / 88
p0 −142.2 ± 1.622
pull
Entries 89
Mean −120.5
Std Dev 0
pull1D
Entries 89
Mean 0.02828
Std Dev 0.4081

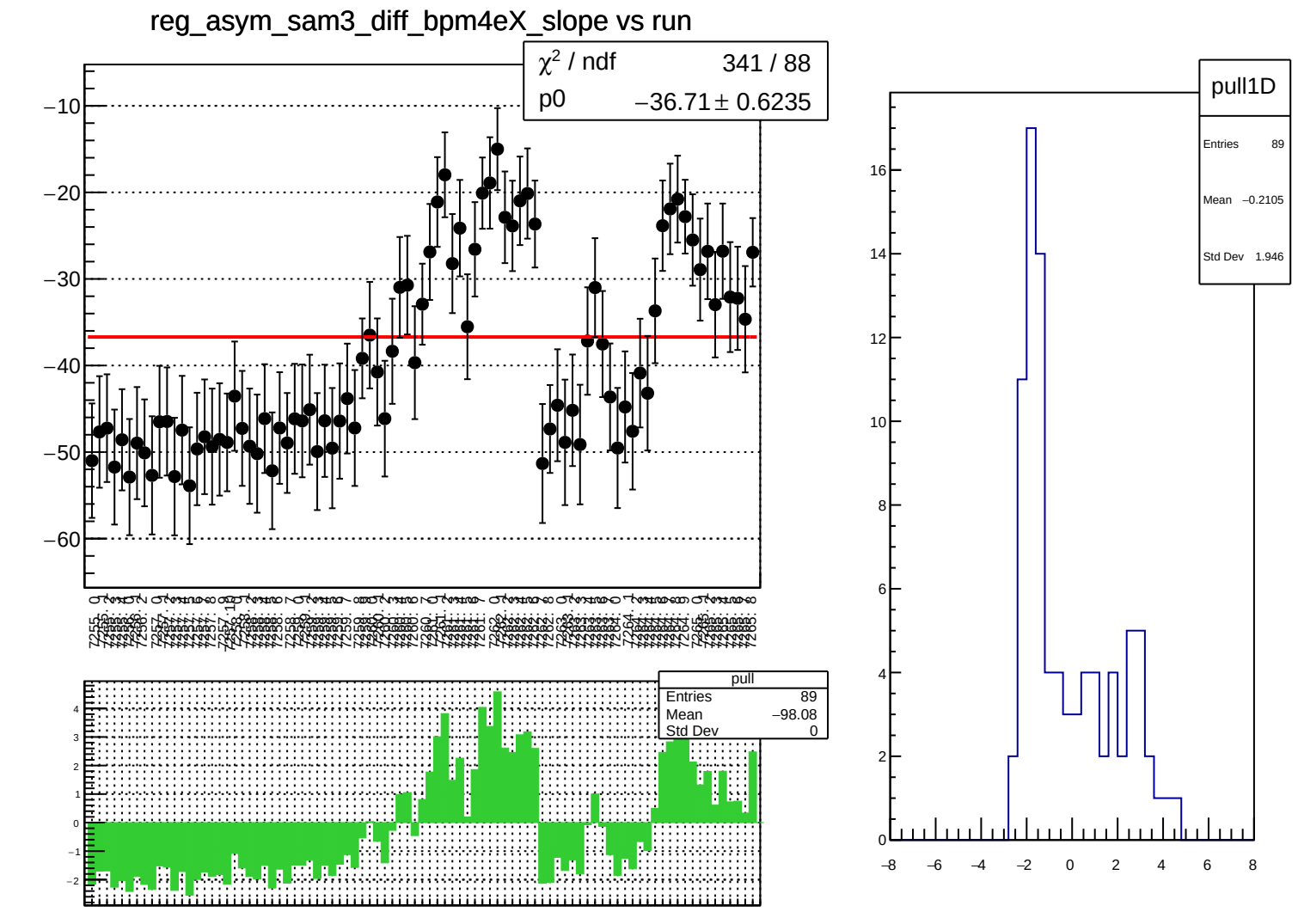

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 5.719 / 88
p0 1.406 ± 0.06724
pull
Entries 89
Mean 410.8
Std Dev 0

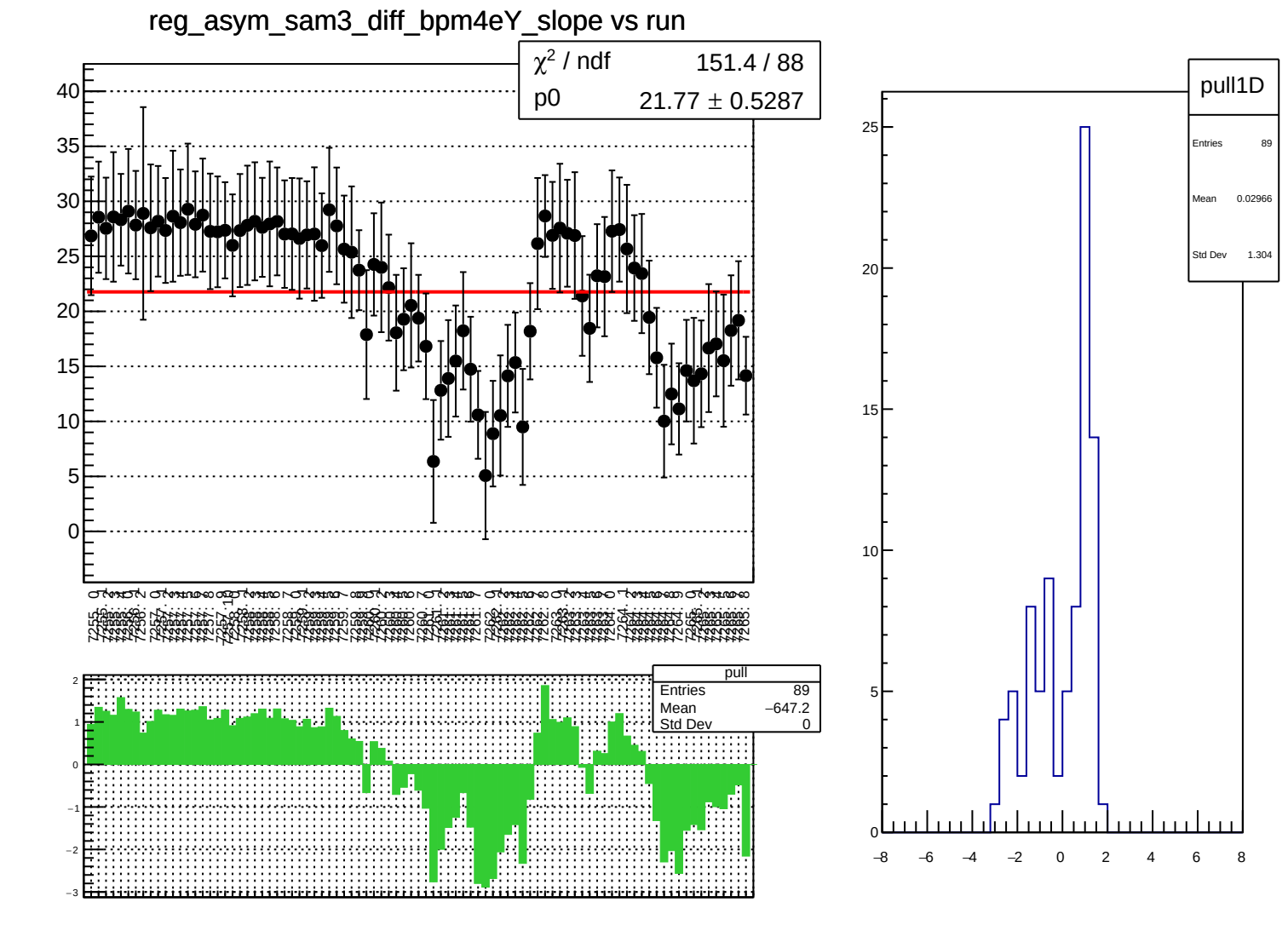

pull1D
Entries 89
Mean 0.002375
Std Dev 0.2535

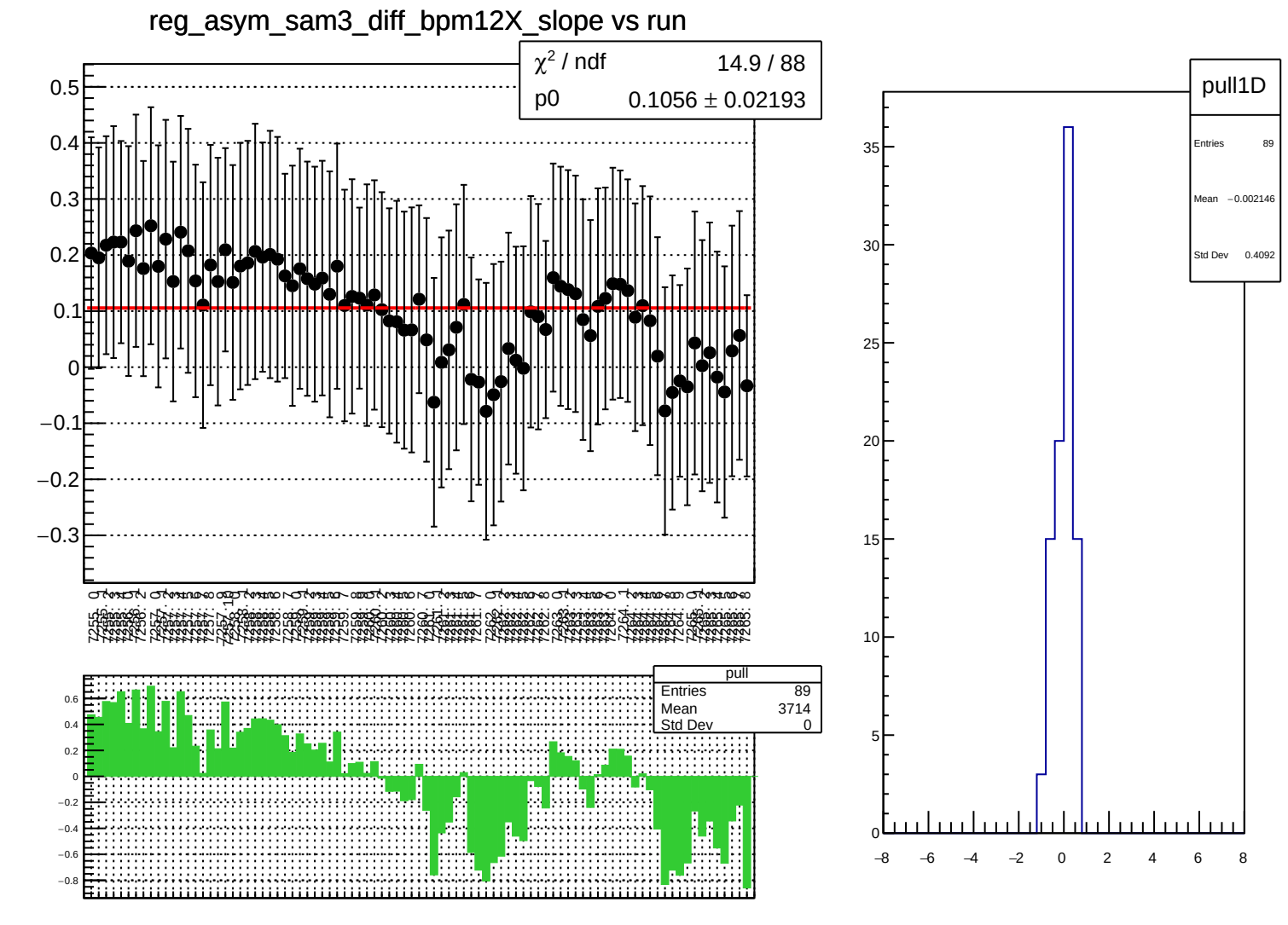

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 450.1 / 88
p0 −40.95 ± 0.5759
pull
Entries 89
Mean −109.9
Std Dev 0

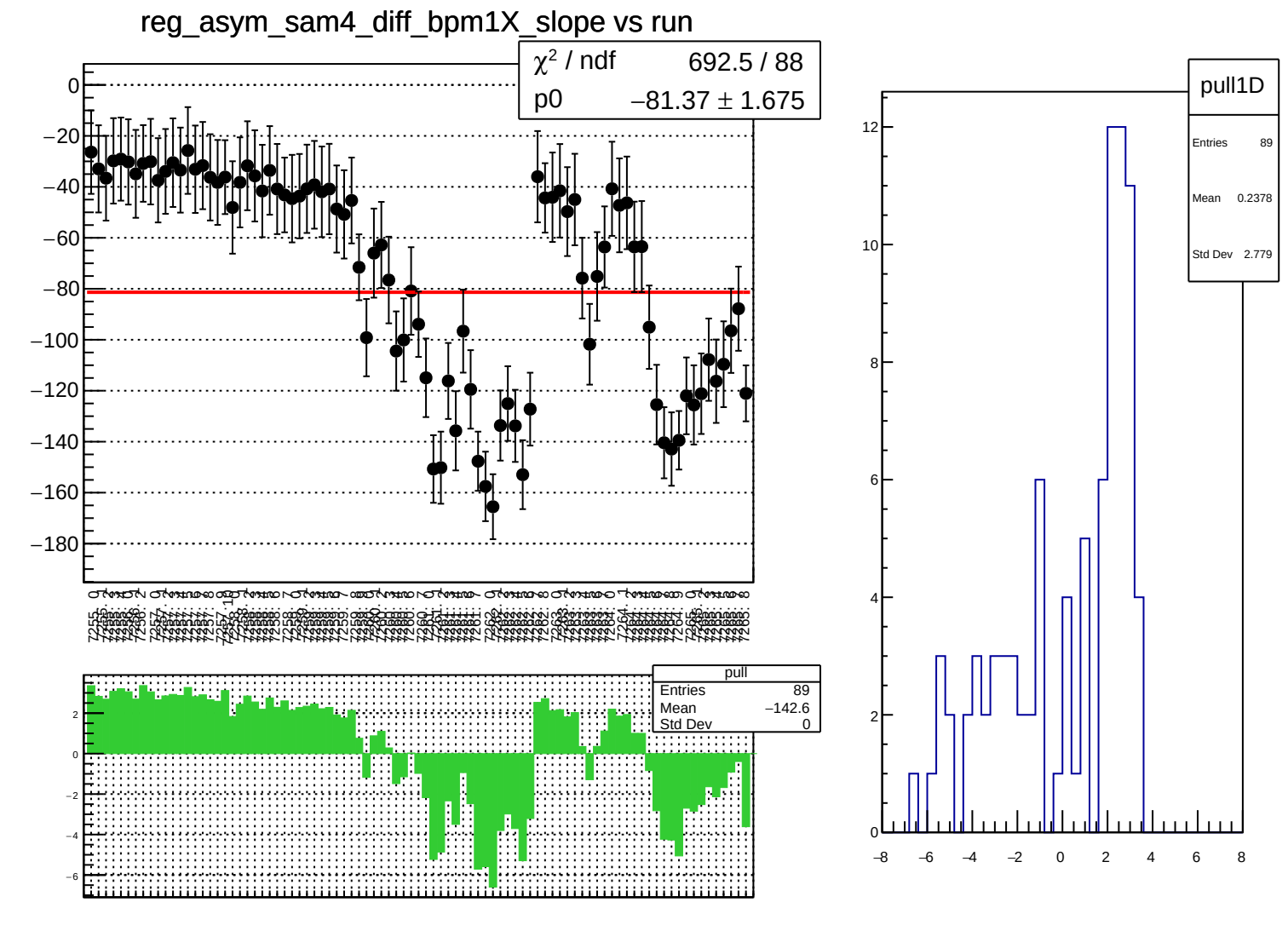

pull1D
Entries 89
Mean 0.225
Std Dev 2.238

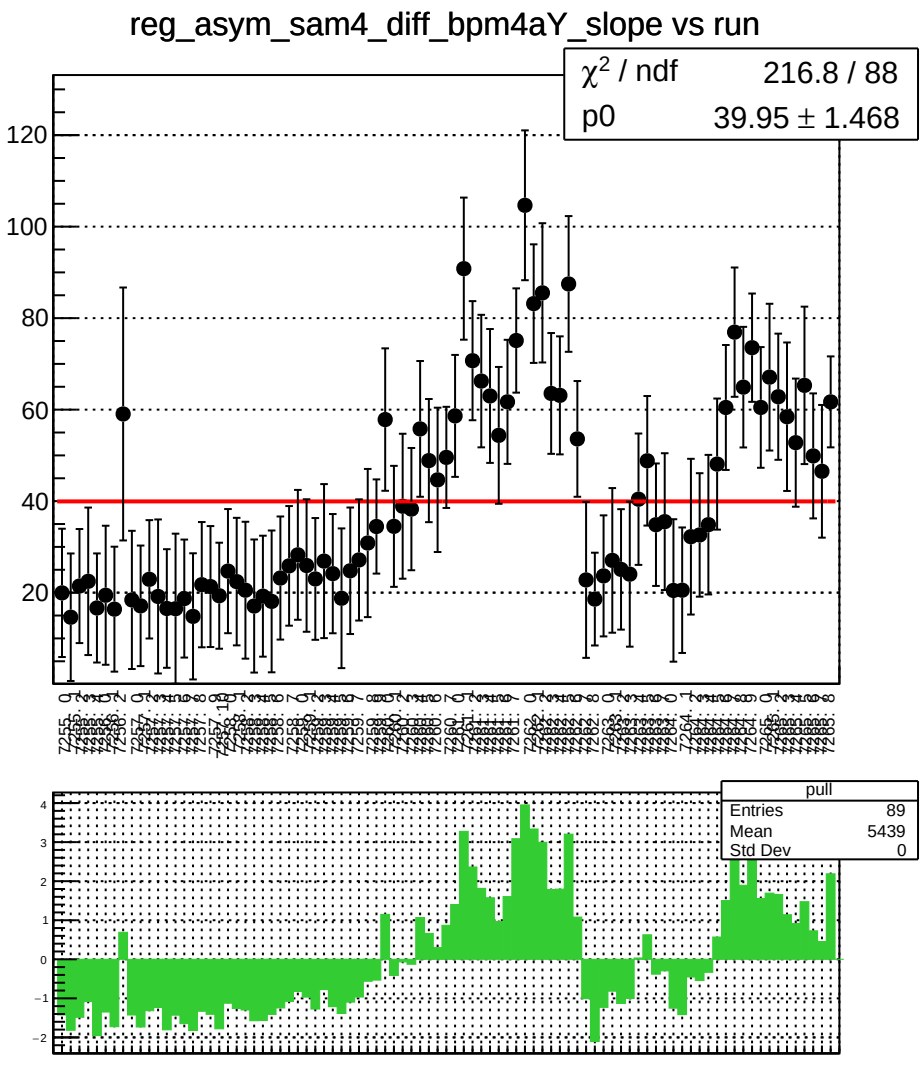

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 145.5 / 88
p0 0.909 ± 0.5027
pull
Entries 89
Mean −915.8
Std Dev 0
pull1D
Entries 89
Mean −0.02079
Std Dev 1.278

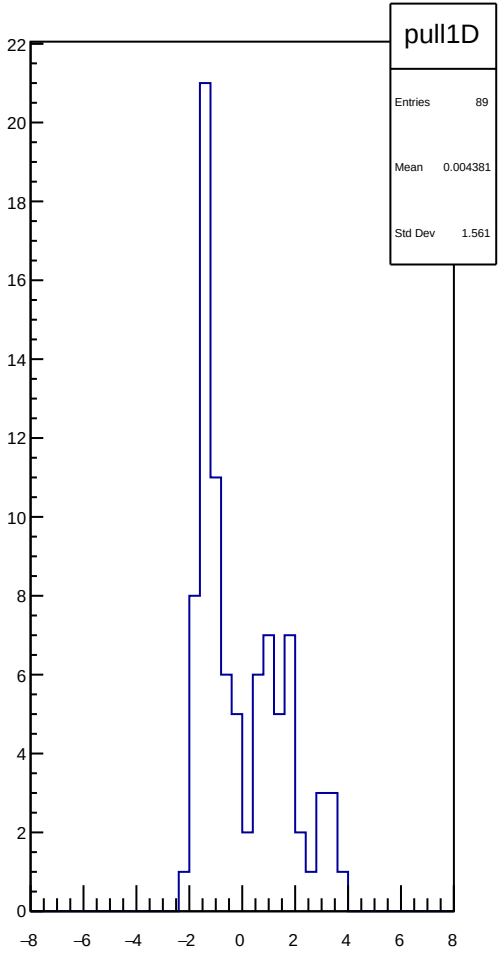

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 341 / 88
p0 −36.71 ± 0.6235
pull
Entries 89
Mean −98.08
Std Dev 0
pull1D
Entries 89
Mean −0.2105
Std Dev 1.946

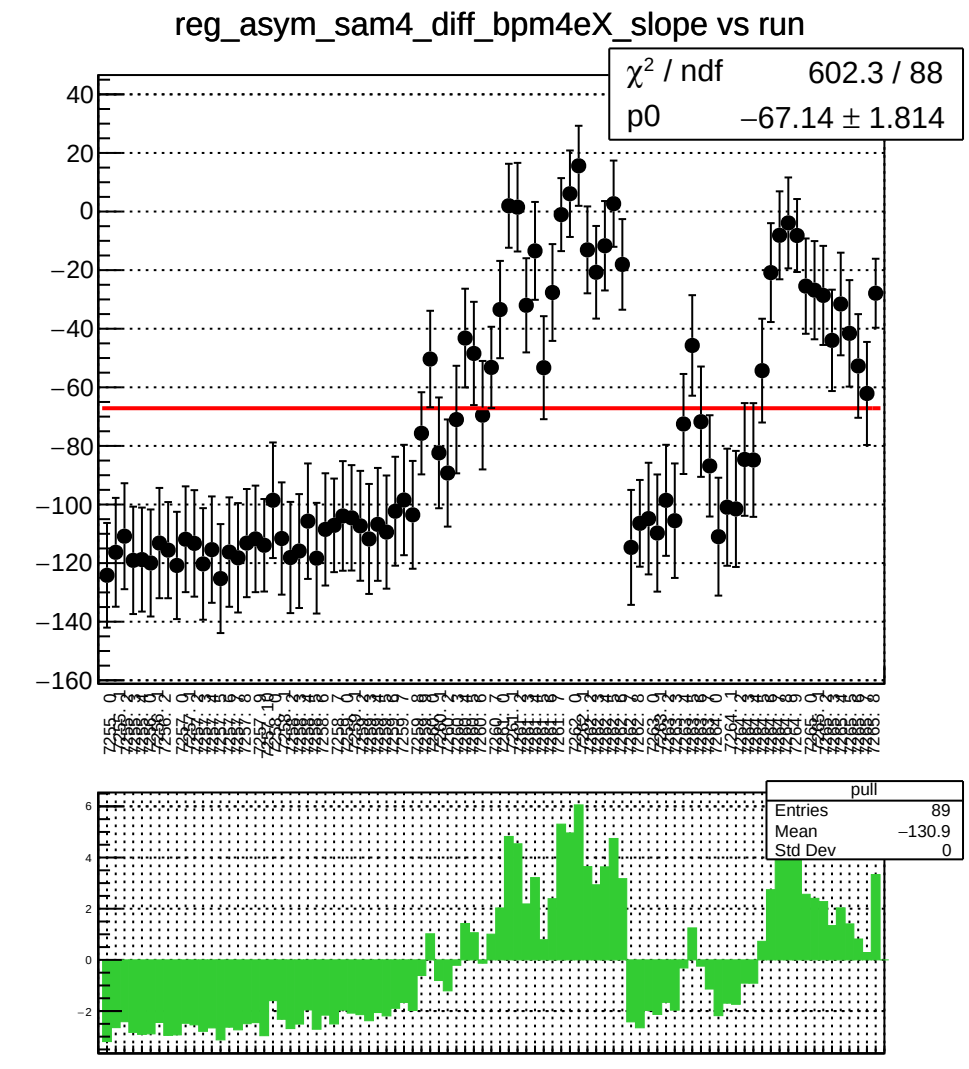

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 151.4 / 88
p0 21.77 ± 0.5287
pull
Entries 89
Mean −647.2
Std Dev 0
pull1D
Entries 89
Mean 0.02966
Std Dev 1.304

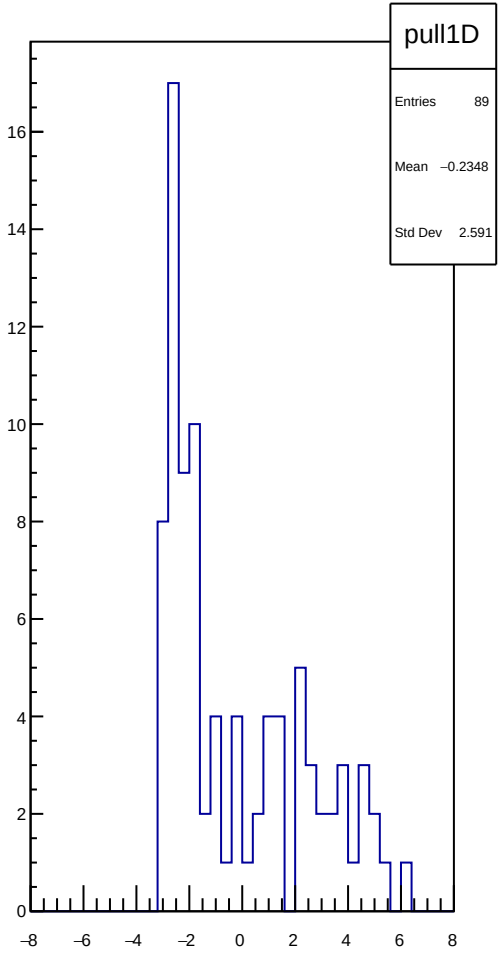

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 14.9 / 88
p0 0.1056 ± 0.02193
pull
Entries 89
Mean 3714
Std Dev 0
pull1D
Entries 89
Mean −0.002146
Std Dev 0.4092

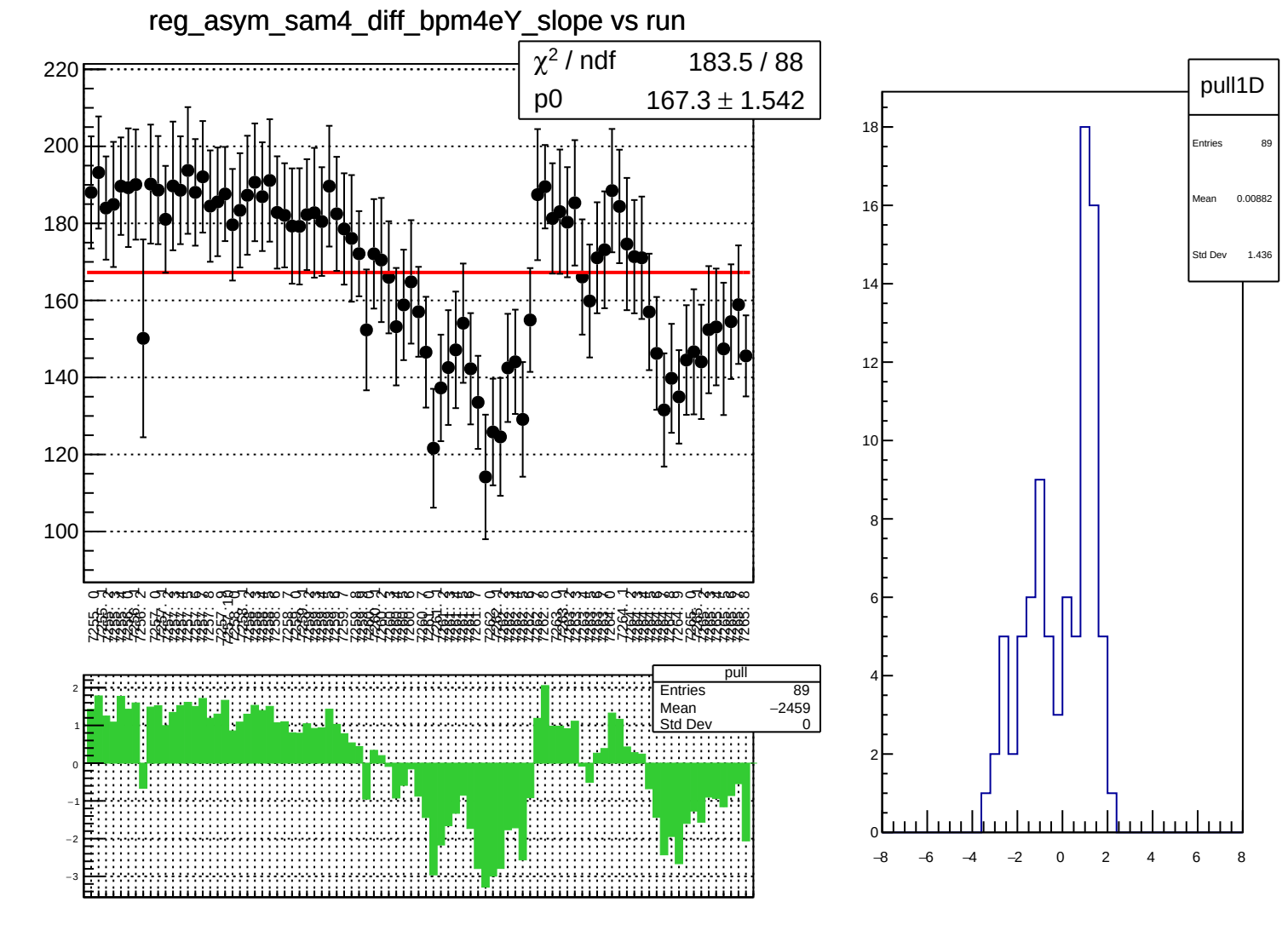

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 692.5 / 88
p0 −81.37 ± 1.675
pull
Entries 89
Mean −142.6
Std Dev 0
pull1D
Entries 89
Mean 0.2378
Std Dev 2.779

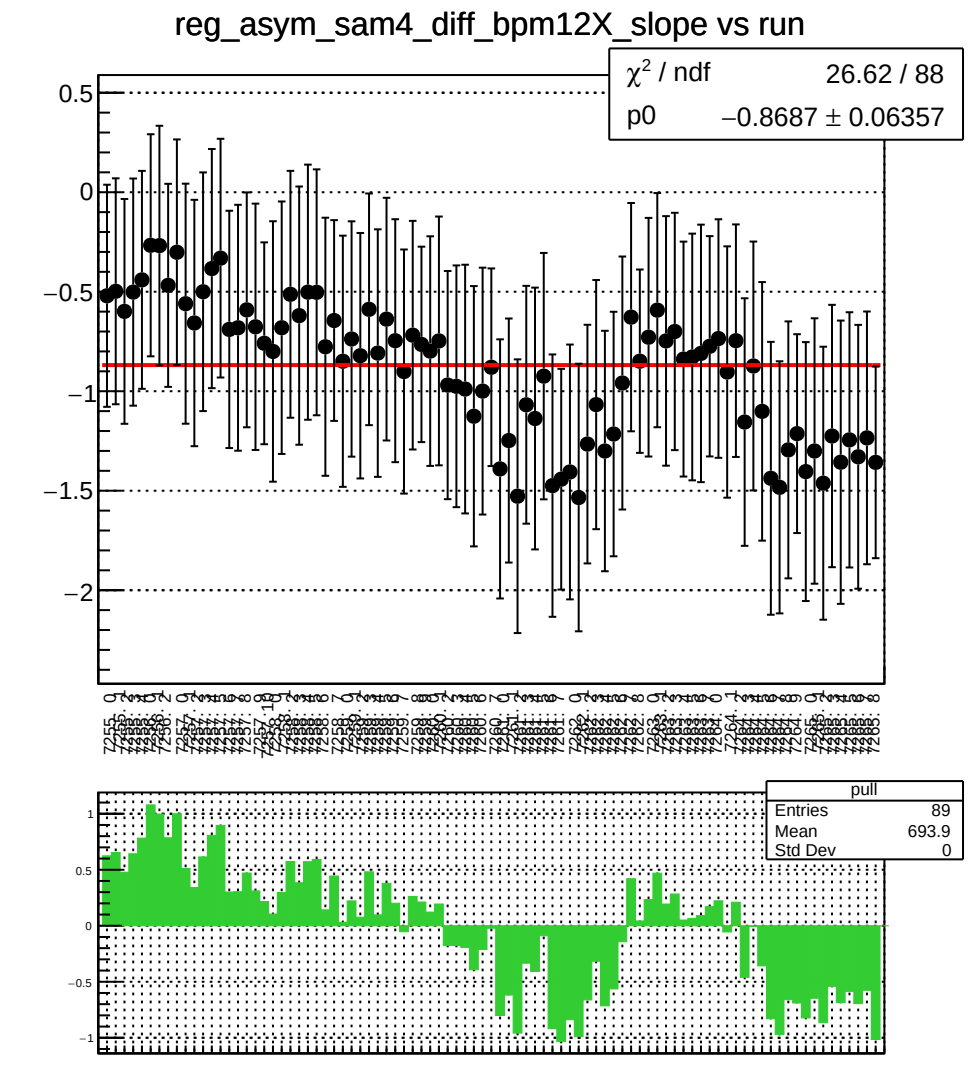

reg_asym_sam4_diff_bpm4aY_slope vs run
χ^2 / ndf 216.8 / 88
p0 39.95 ± 1.468
pull
Entries 89
Mean 5439
Std Dev 0

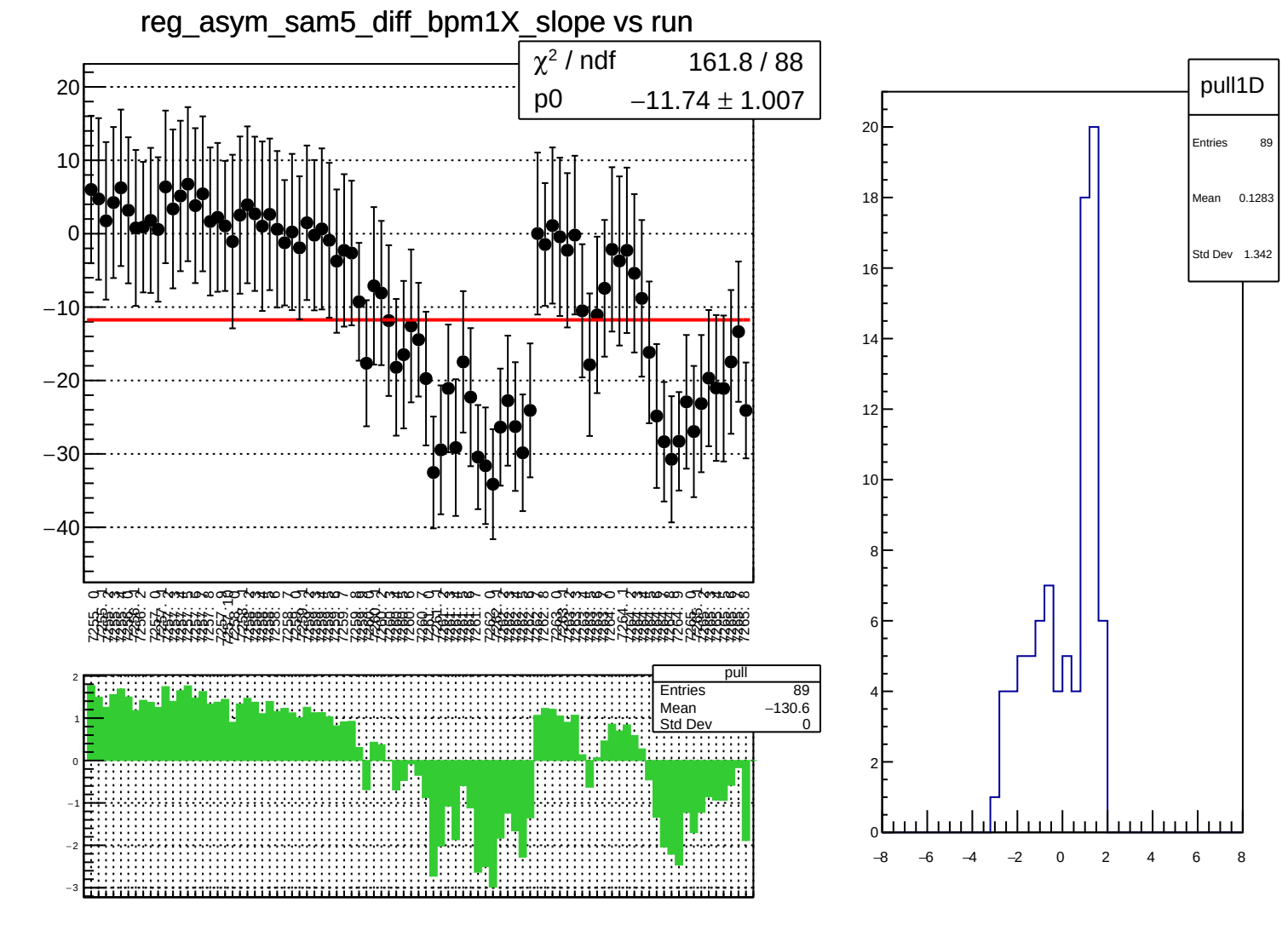

pull1D
Entries 89
Mean 0.004381
Std Dev 1.561

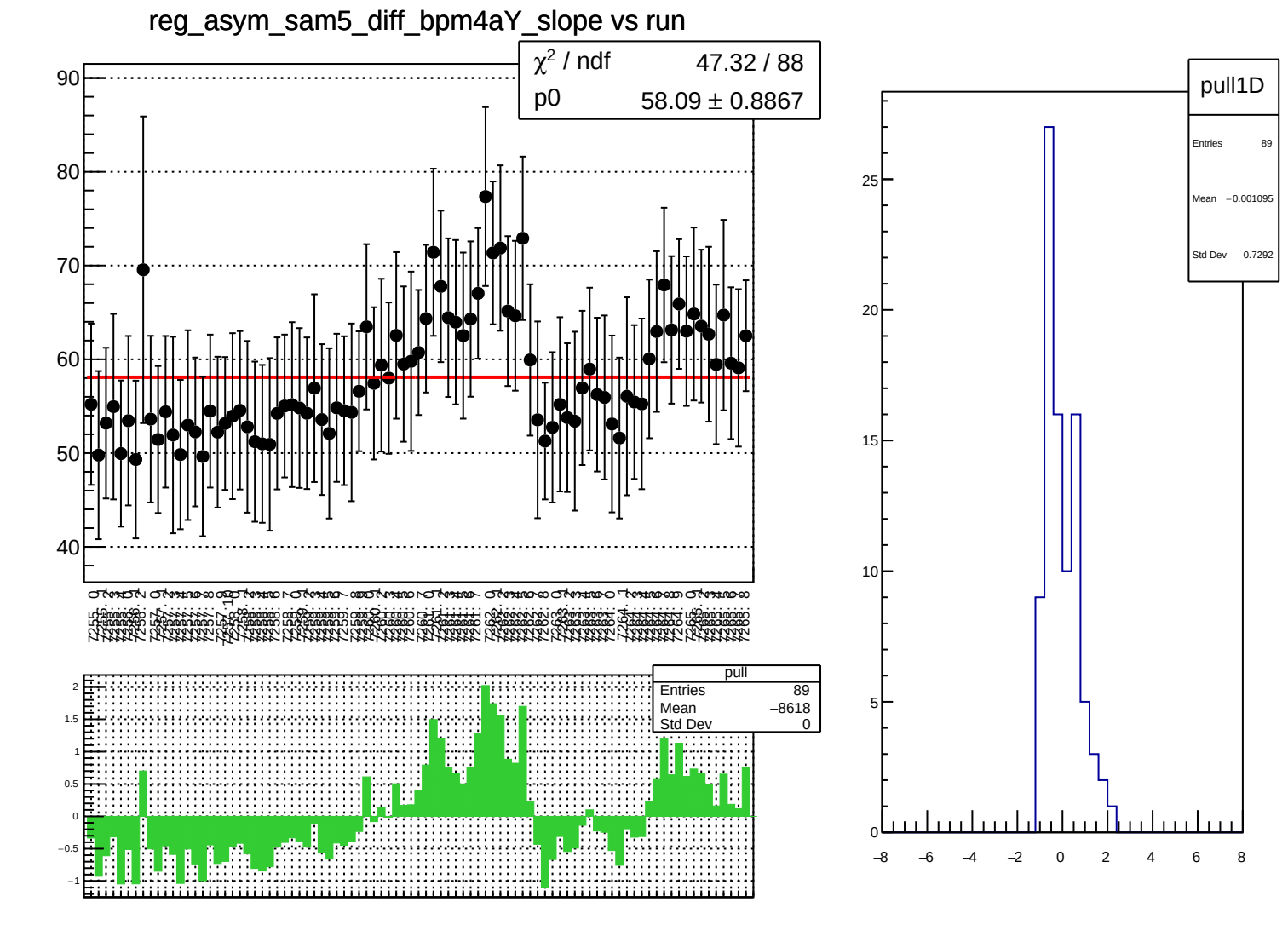

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 602.3 / 88
p0 −67.14 ± 1.814
pull
Entries 89
Mean −130.9
Std Dev 0

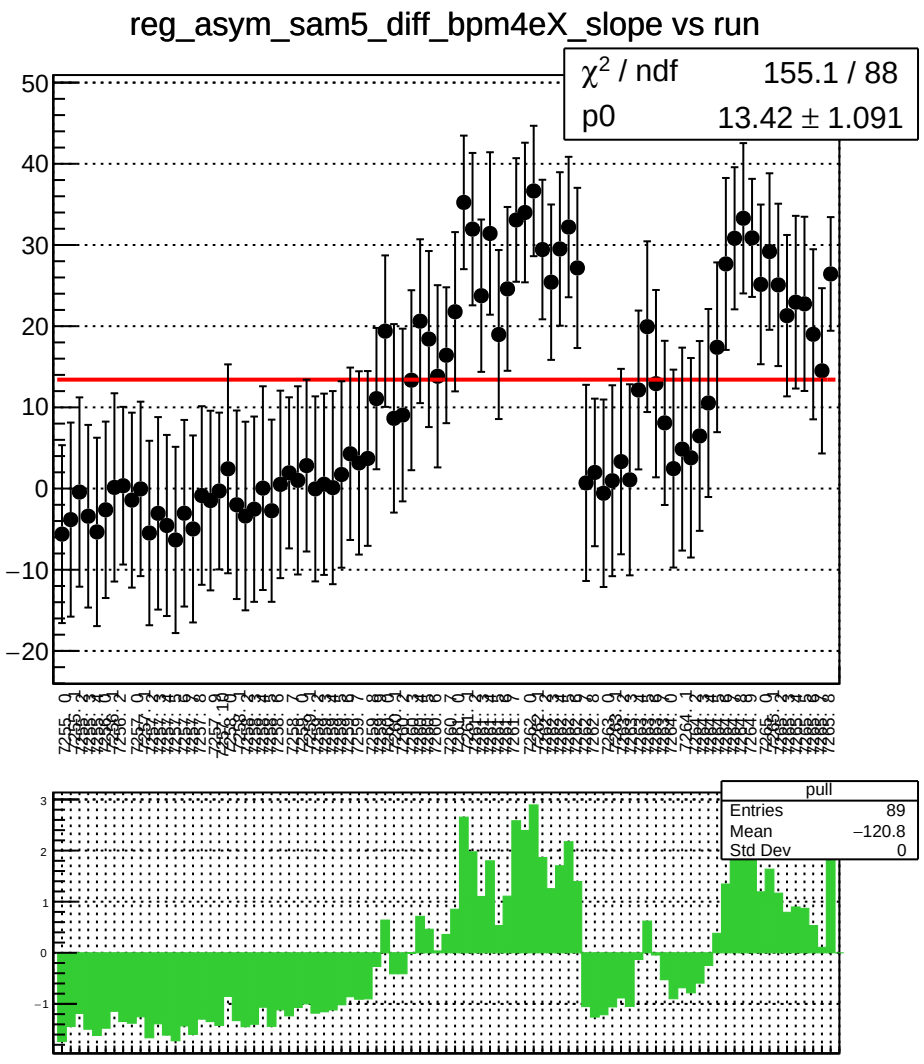

pull1D
Entries 89
Mean −0.2348
Std Dev 2.591

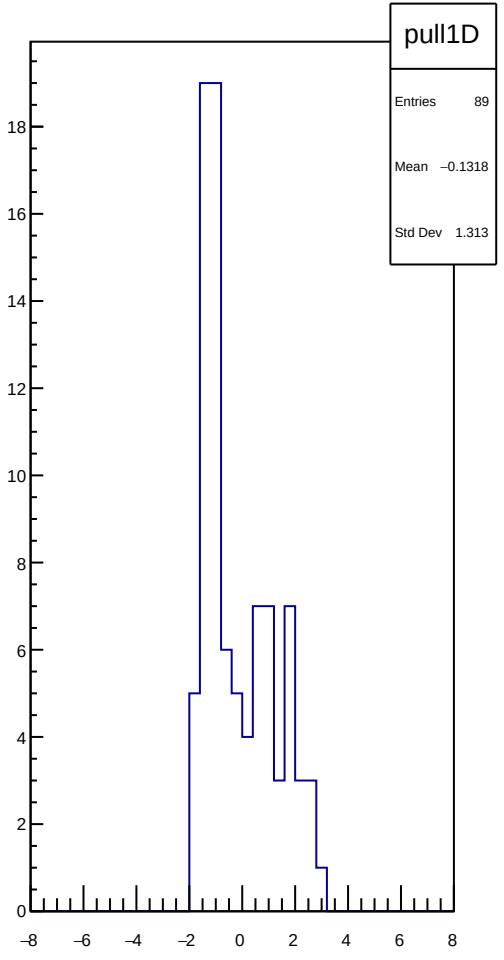

reg_asym_sam4_diff_bpm4eY_slope vs run
χ^2 / ndf 183.5 / 88
p0 167.3 ± 1.542
pull
Entries 89
Mean −2459
Std Dev 0
pull1D
Entries 89
Mean 0.00882
Std Dev 1.436

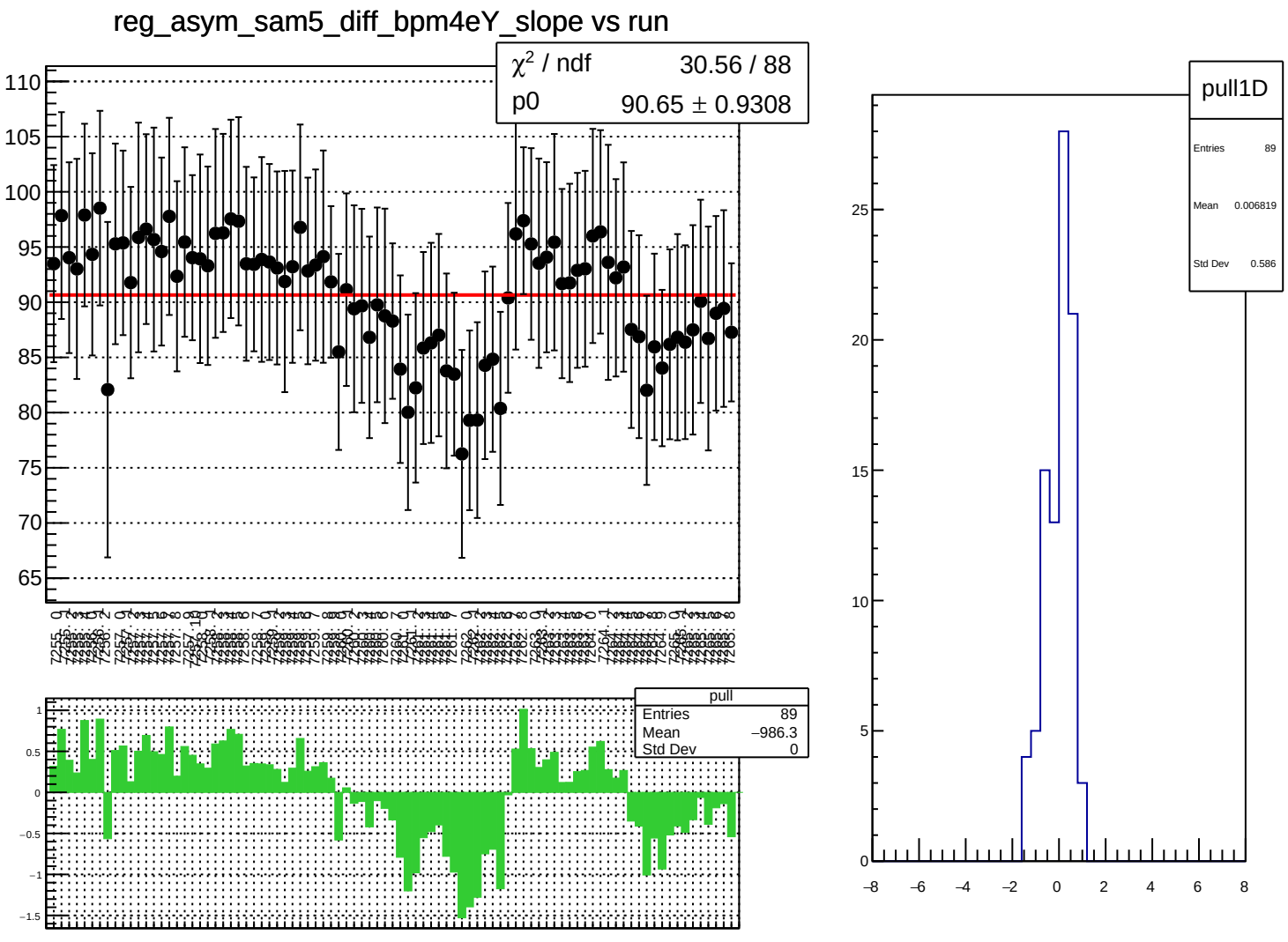

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 26.62 / 88
p0 −0.8687 ± 0.06357
pull
Entries 89
Mean 693.9
Std Dev 0
pull1D
Entries 89
Mean −0.01599
Std Dev 0.5466

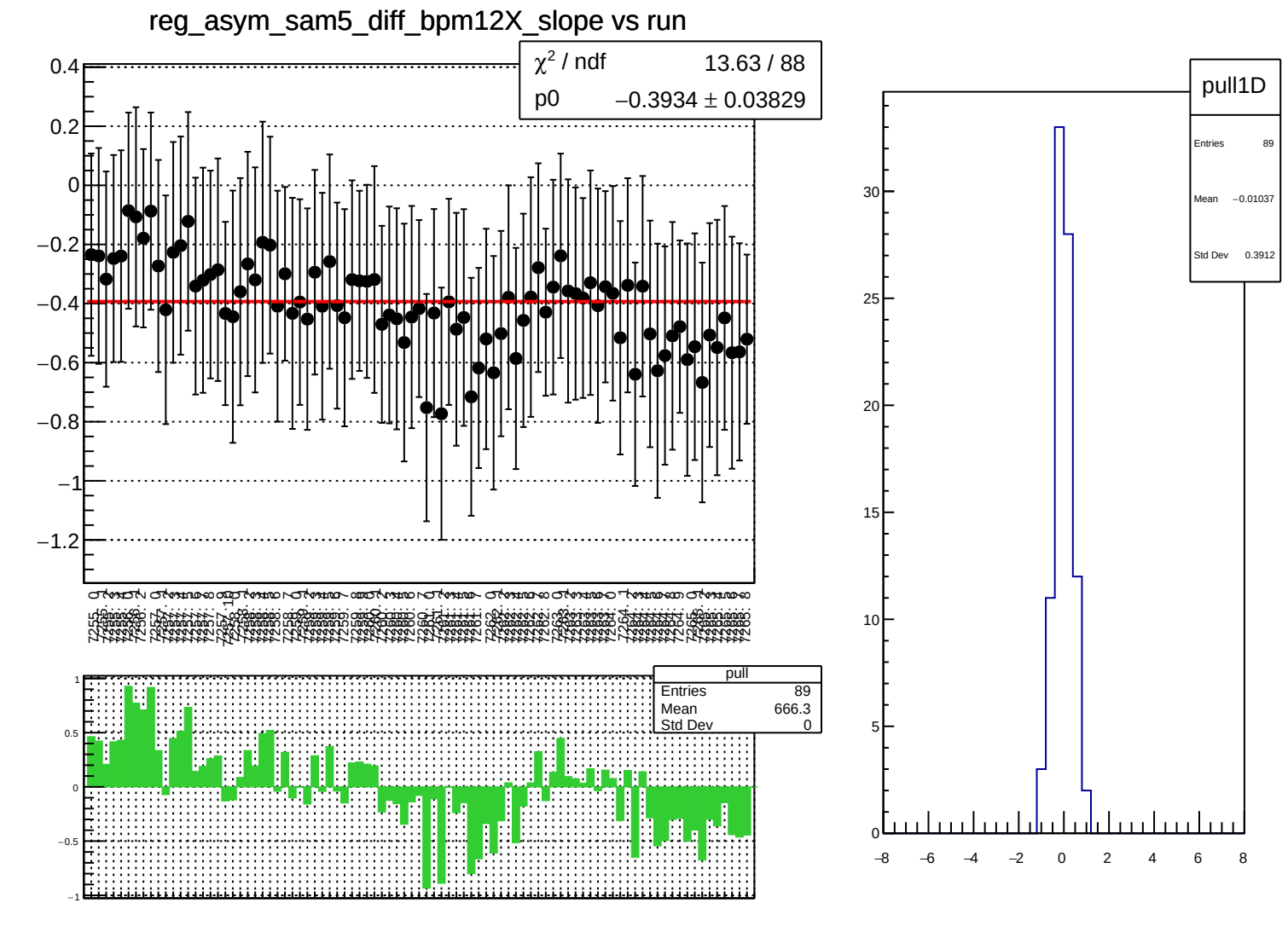

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 161.8 / 88
p0 −11.74 ± 1.007
pull
Entries 89
Mean −130.6
Std Dev 0
pull1D
Entries 89
Mean 0.1283
Std Dev 1.342

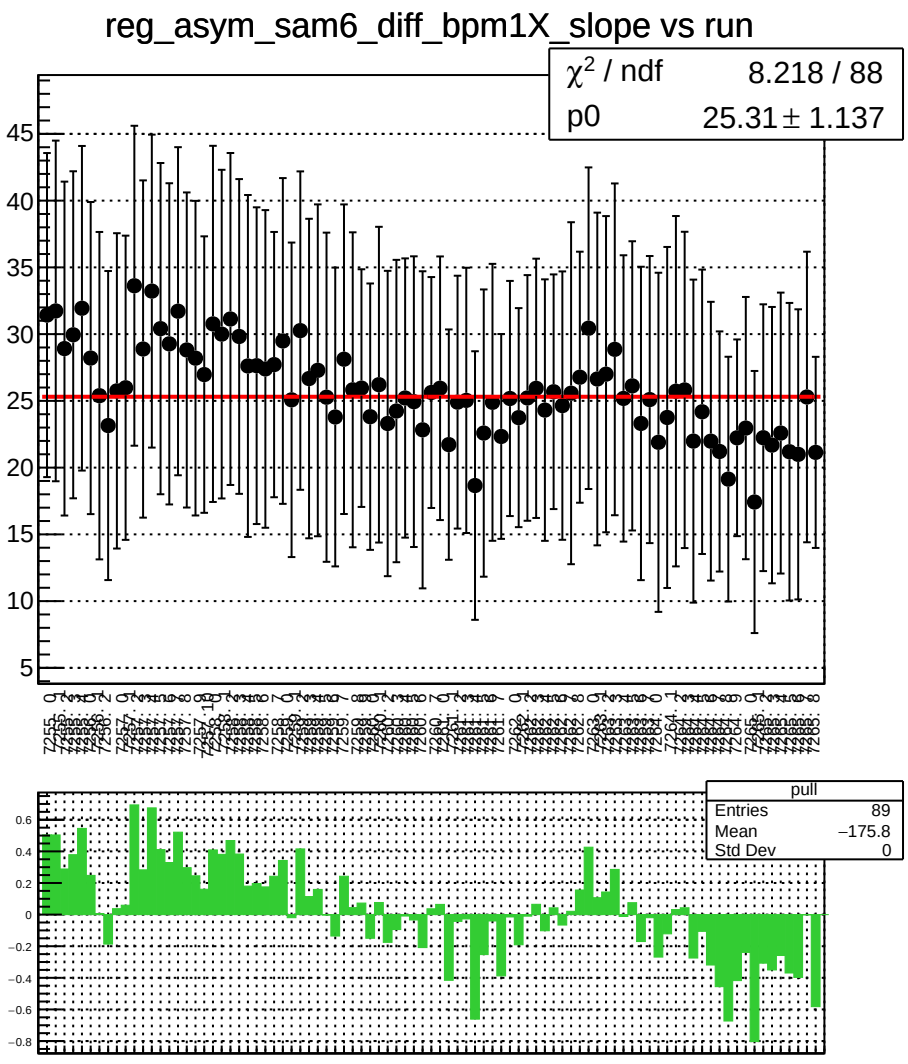

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 47.32 / 88
p0 58.09 ± 0.8867
pull
Entries 89
Mean −8618
Std Dev 0
pull1D
Entries 89
Mean −0.001095
Std Dev 0.7292

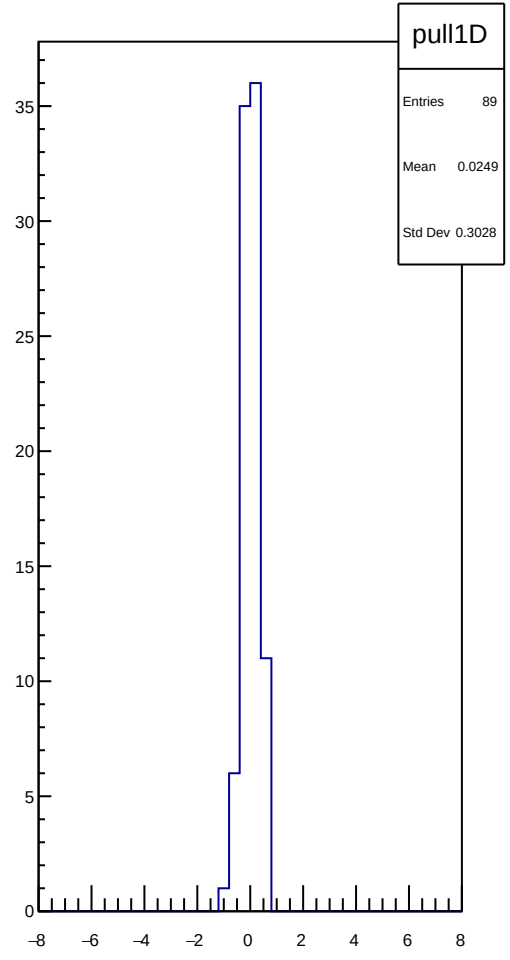

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 155.1 / 88
p0 13.42 ± 1.091
pull
Entries 89
Mean −120.8
Std Dev 0

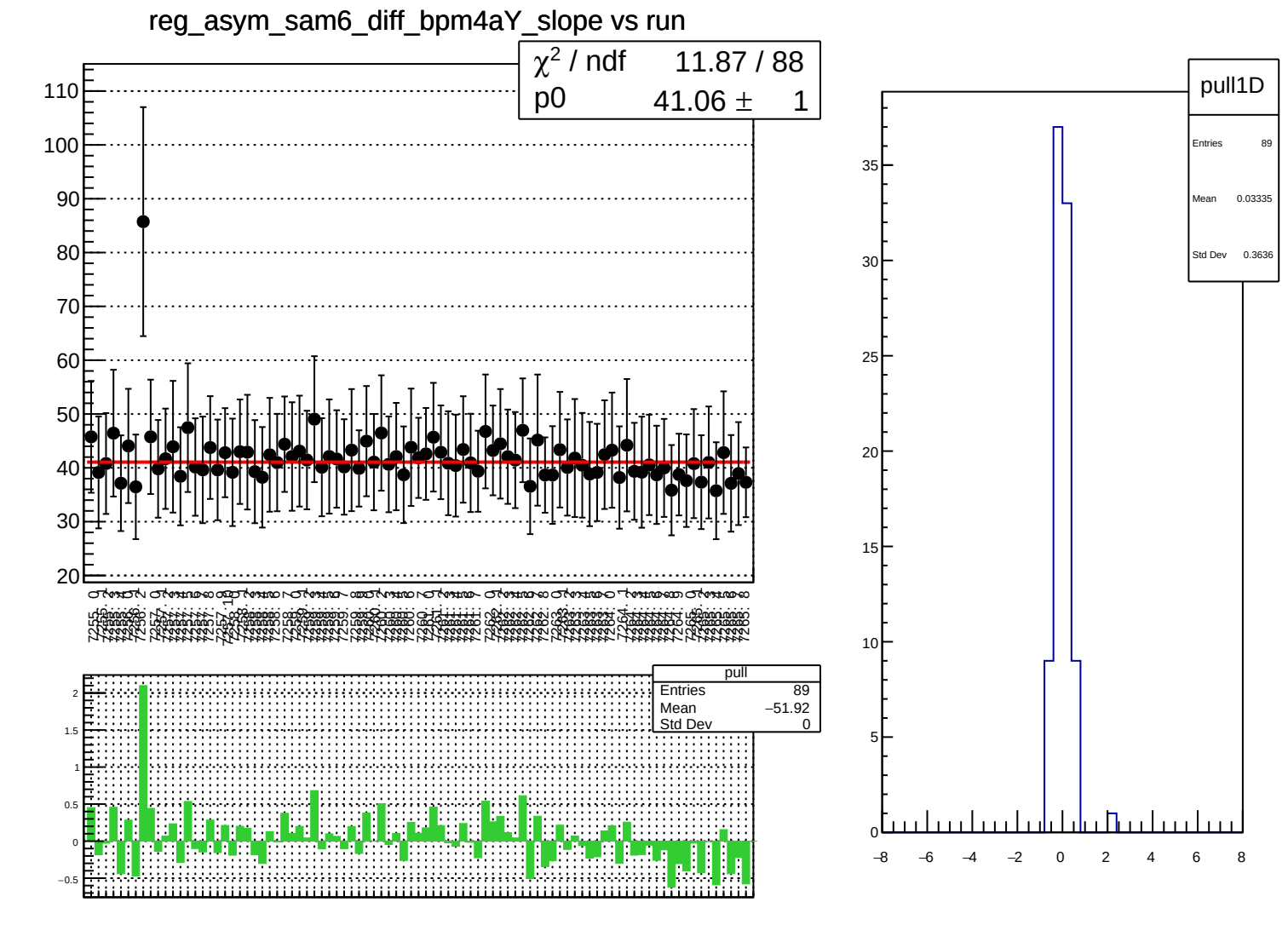

pull1D
Entries 89
Mean −0.1318
Std Dev 1.313

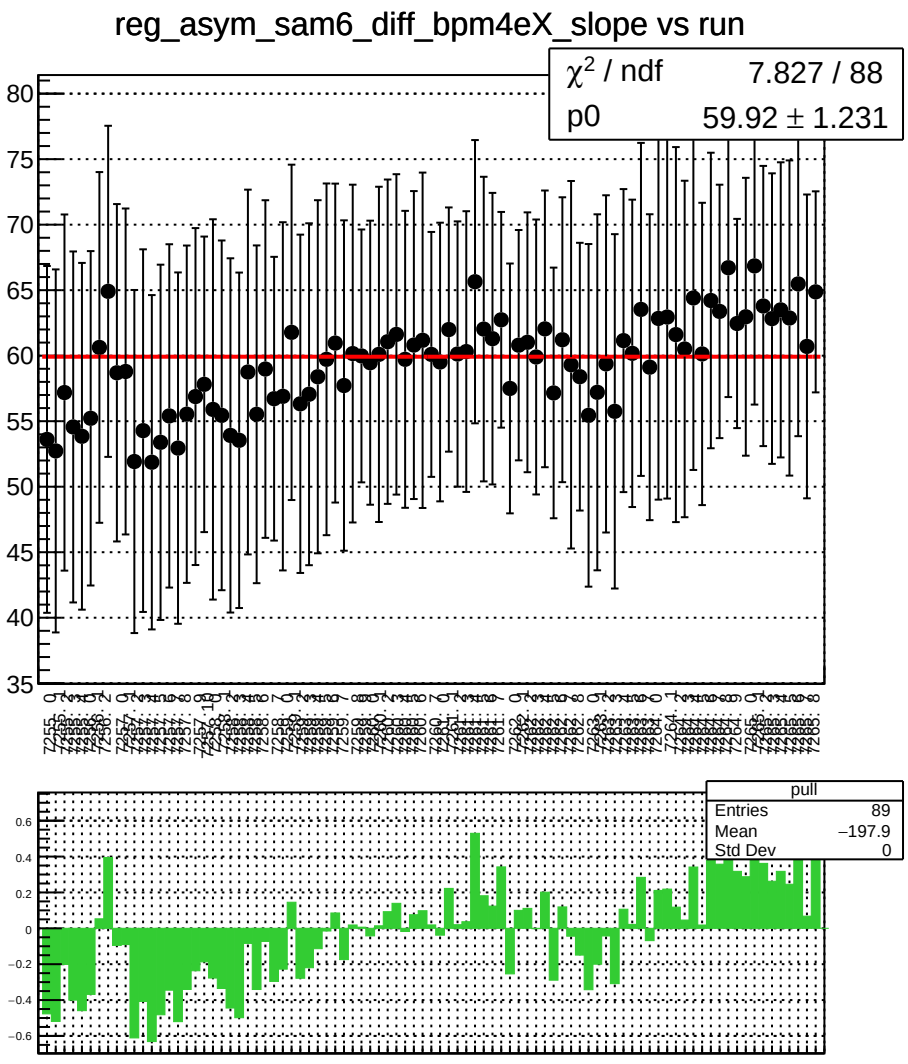

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 30.56 / 88
p0 90.65 ± 0.9308
pull
Entries 89
Mean −986.3
Std Dev 0
pull1D
Entries 89
Mean 0.006819
Std Dev 0.586

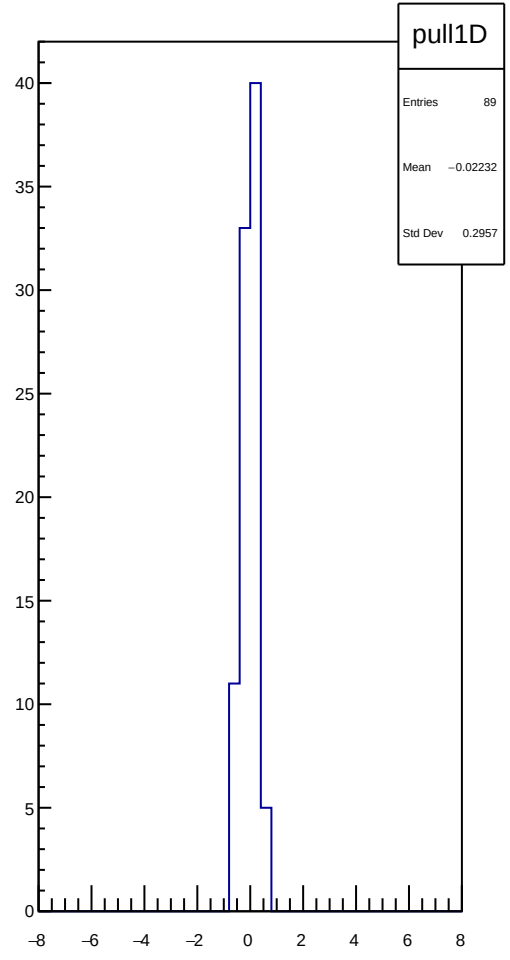

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 13.63 / 88
p0 −0.3934 ± 0.03829
pull
Entries 89
Mean 666.3
Std Dev 0
pull1D
Entries 89
Mean −0.01037
Std Dev 0.3912

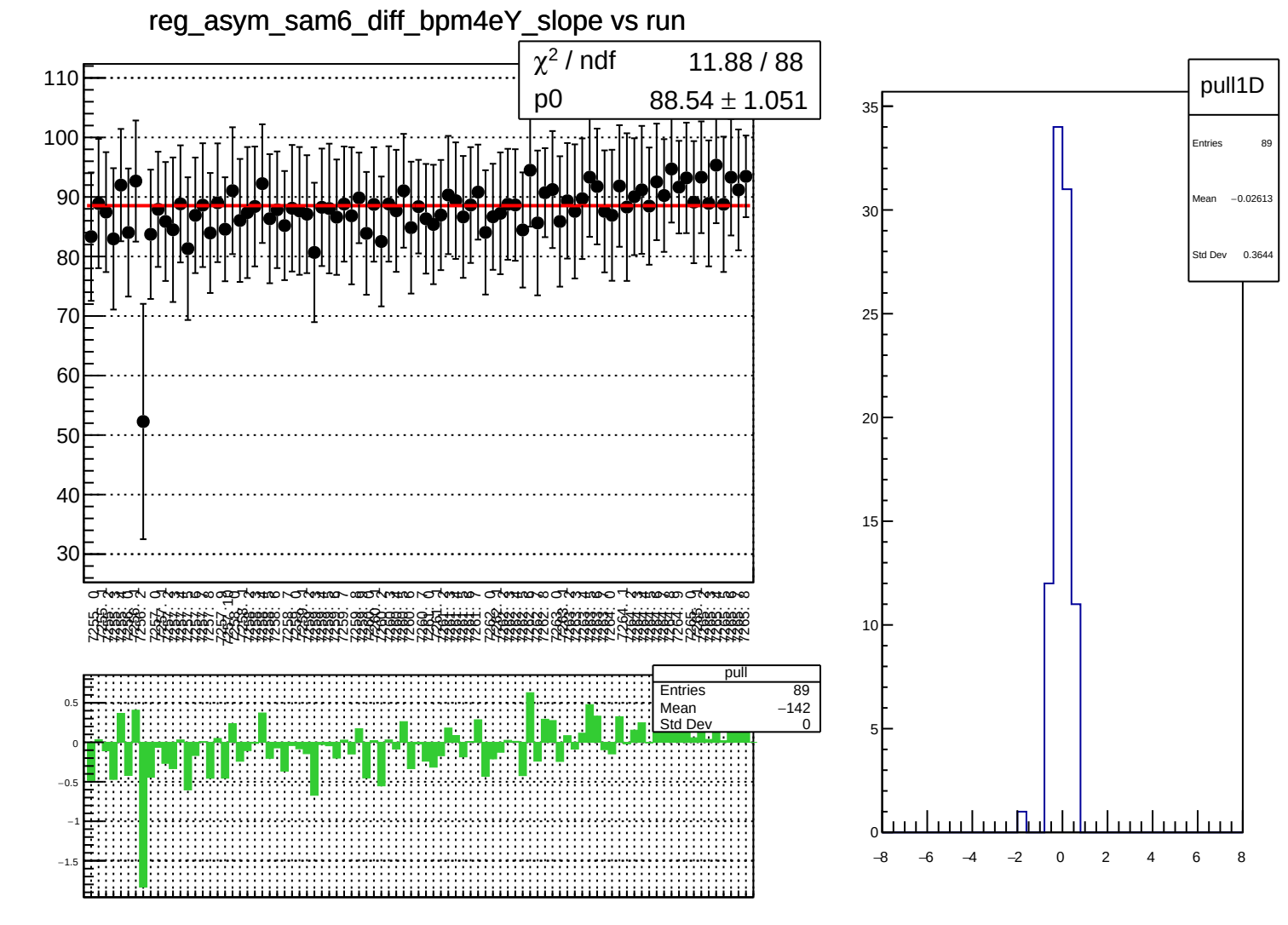

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 8.218 / 88
p0 25.31 ± 1.137
pull
Entries 89
Mean −175.8
Std Dev 0

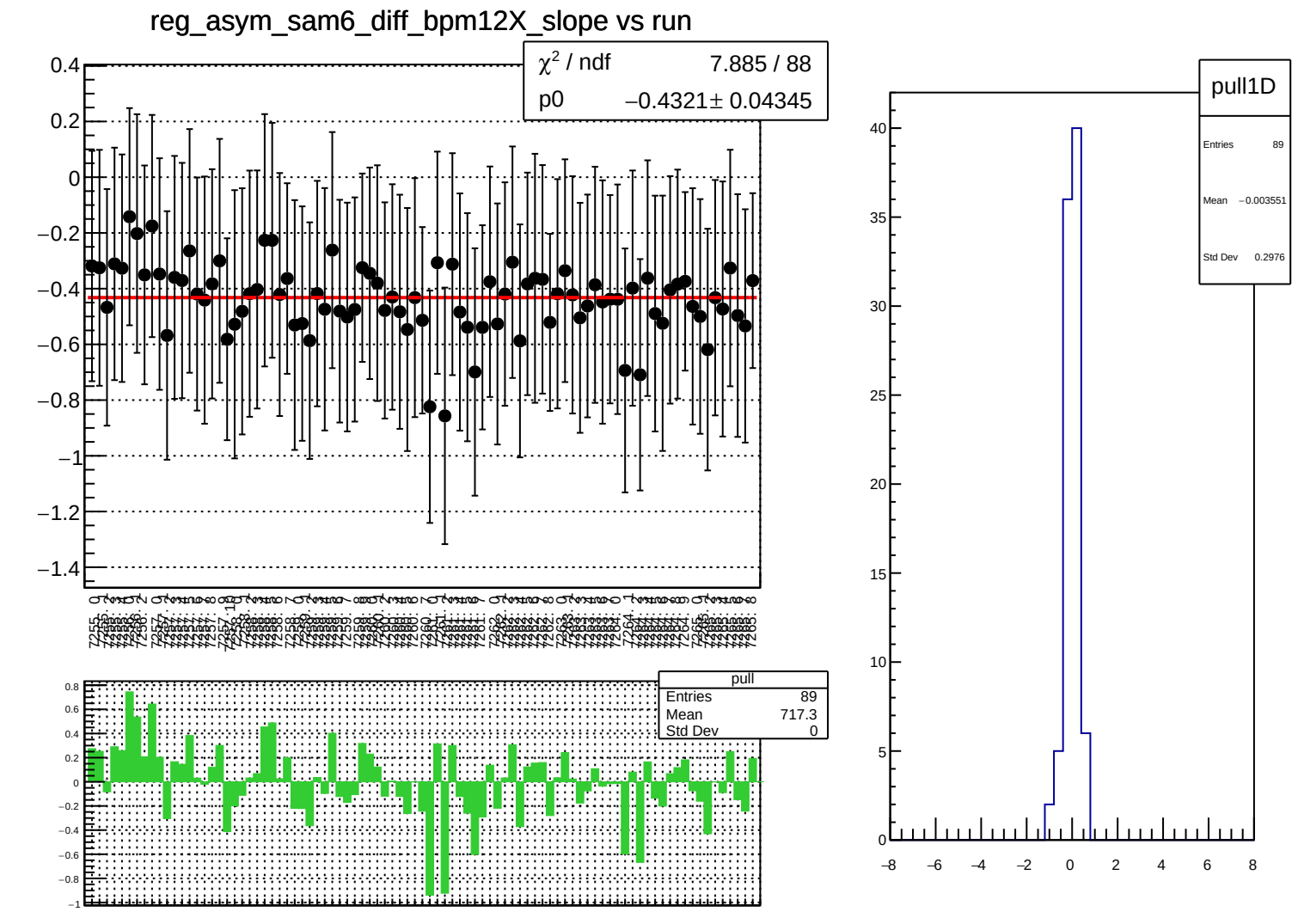

pull1D
Entries 89
Mean 0.0249
Std Dev 0.3028

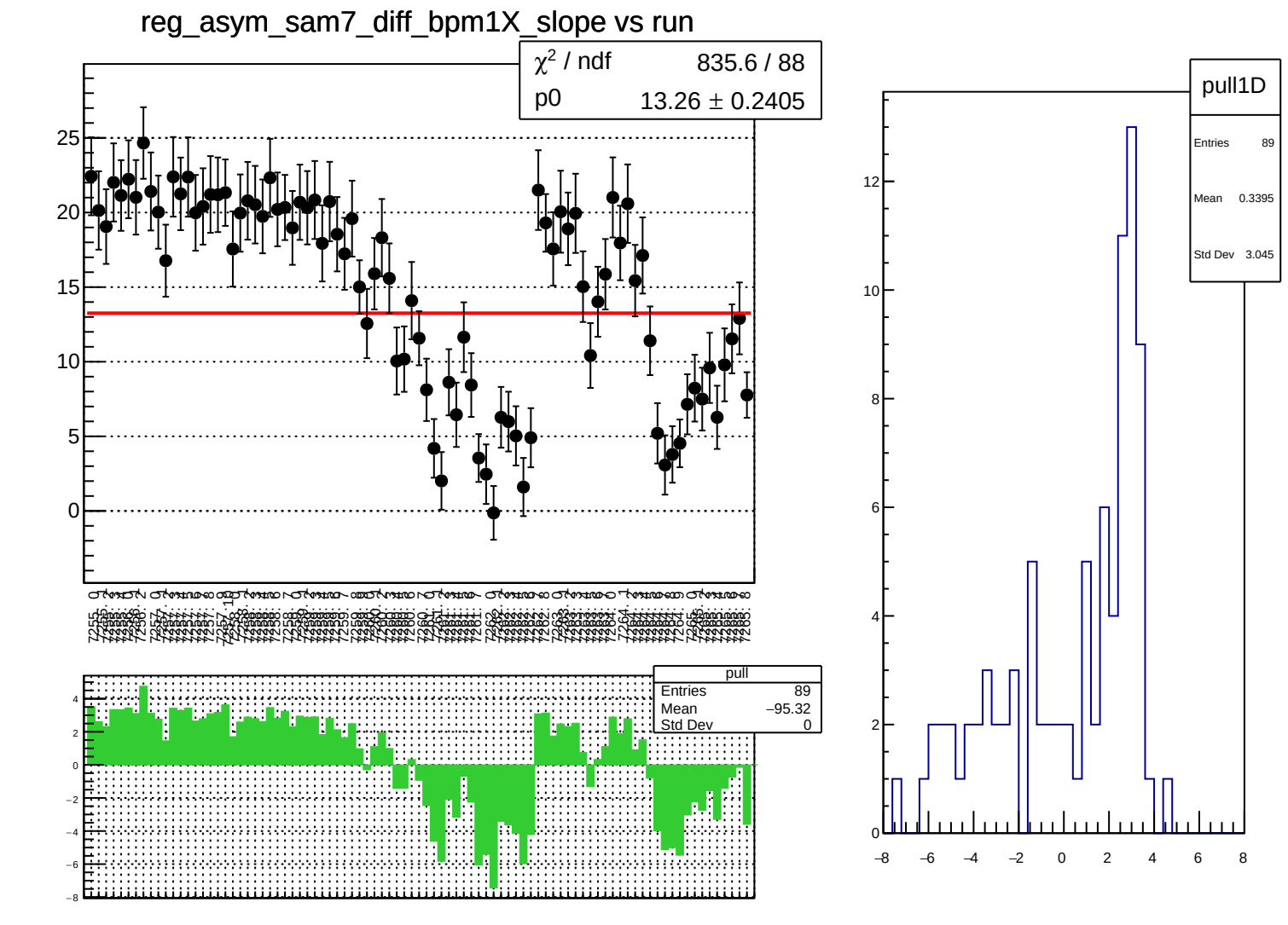

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 11.87 / 88
p0 41.06 ± 1
pull
Entries 89
Mean −51.92
Std Dev 0
pull1D
Entries 89
Mean 0.03335
Std Dev 0.3636

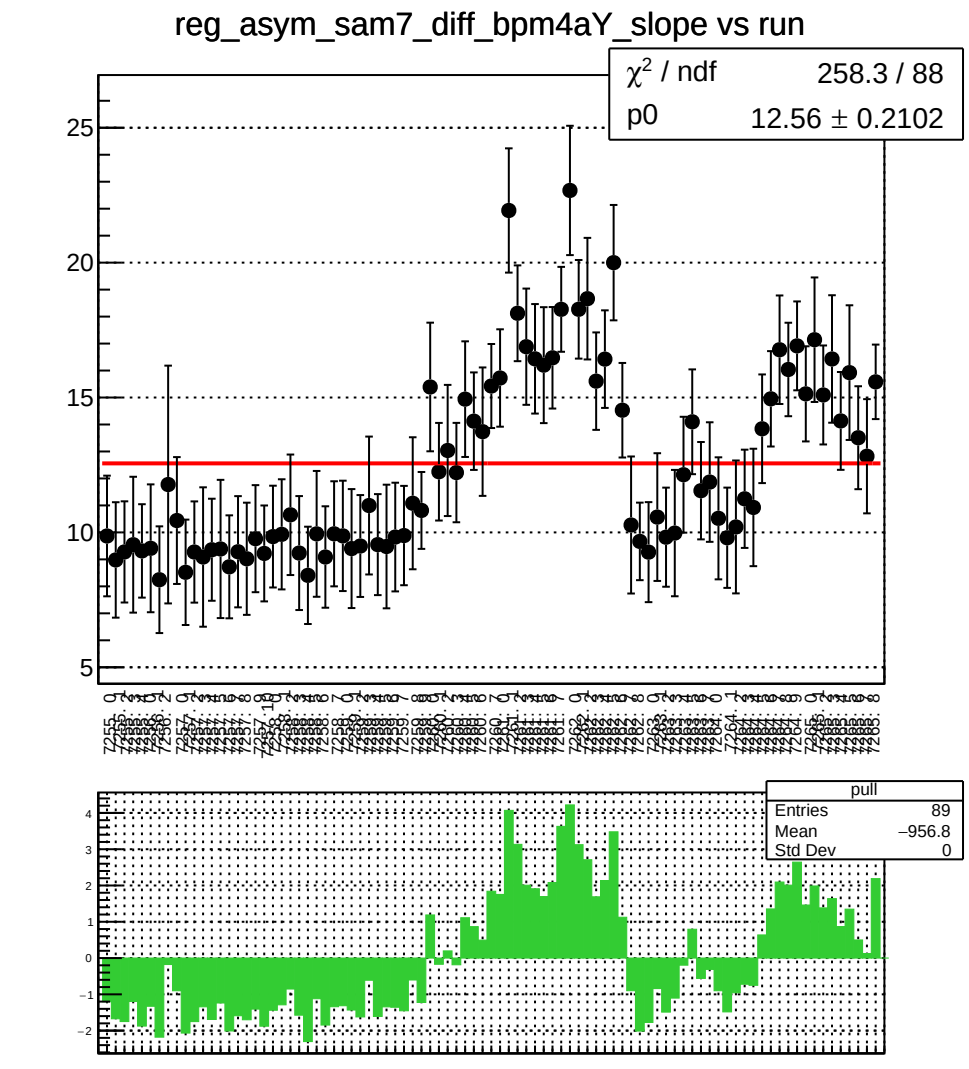

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 7.827 / 88
p0 59.92 ± 1.231
pull
Entries 89
Mean −197.9
Std Dev 0

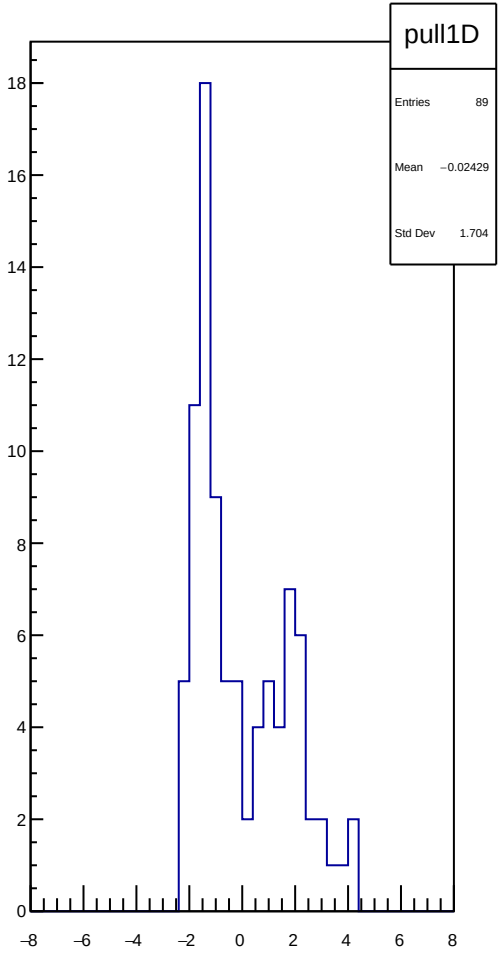

pull1D
Entries 89
Mean −0.02232
Std Dev 0.2957

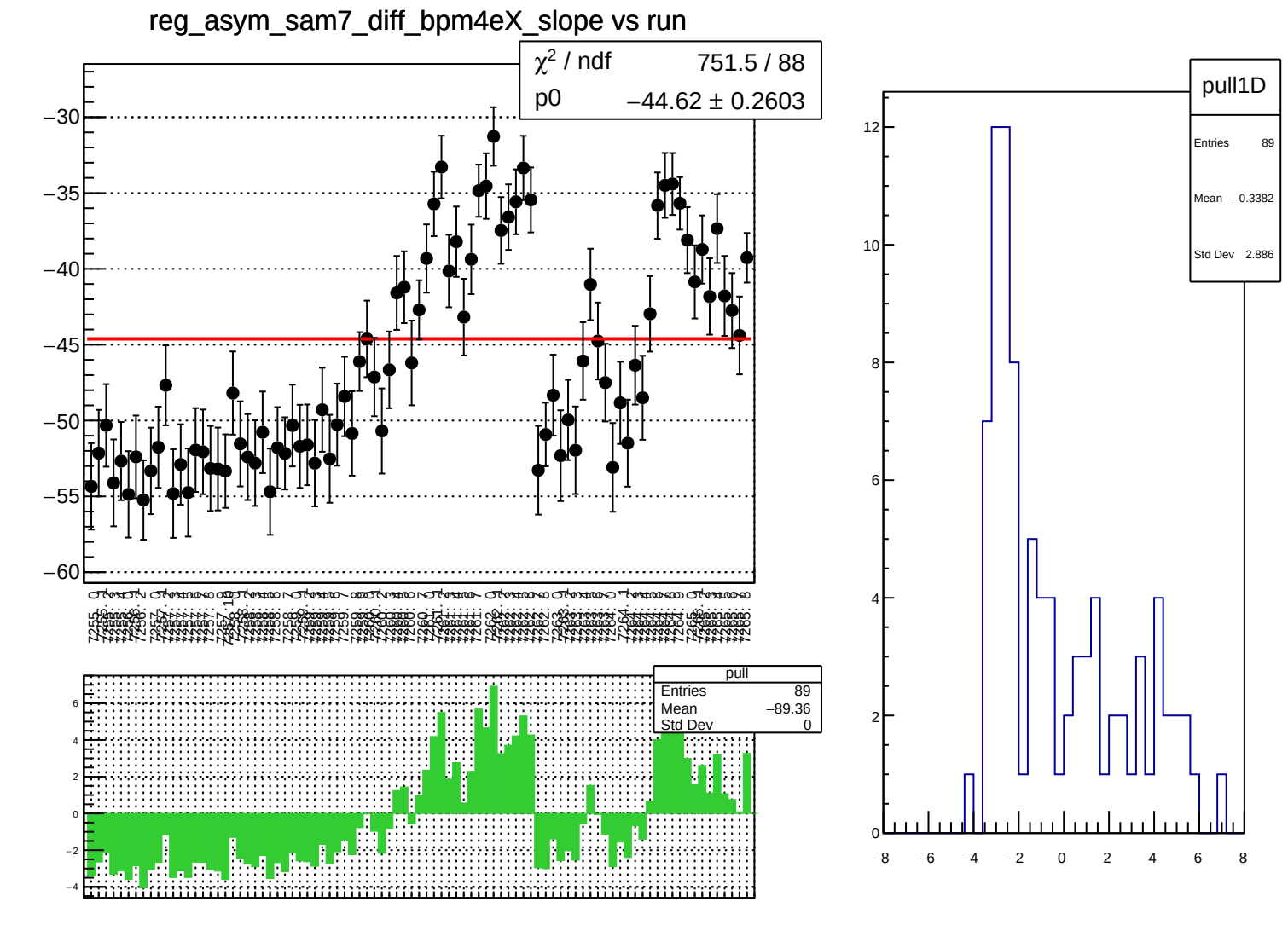

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 11.88 / 88
p0 88.54 ± 1.051
pull
Entries 89
Mean −142
Std Dev 0
pull1D
Entries 89
Mean −0.02613
Std Dev 0.3644

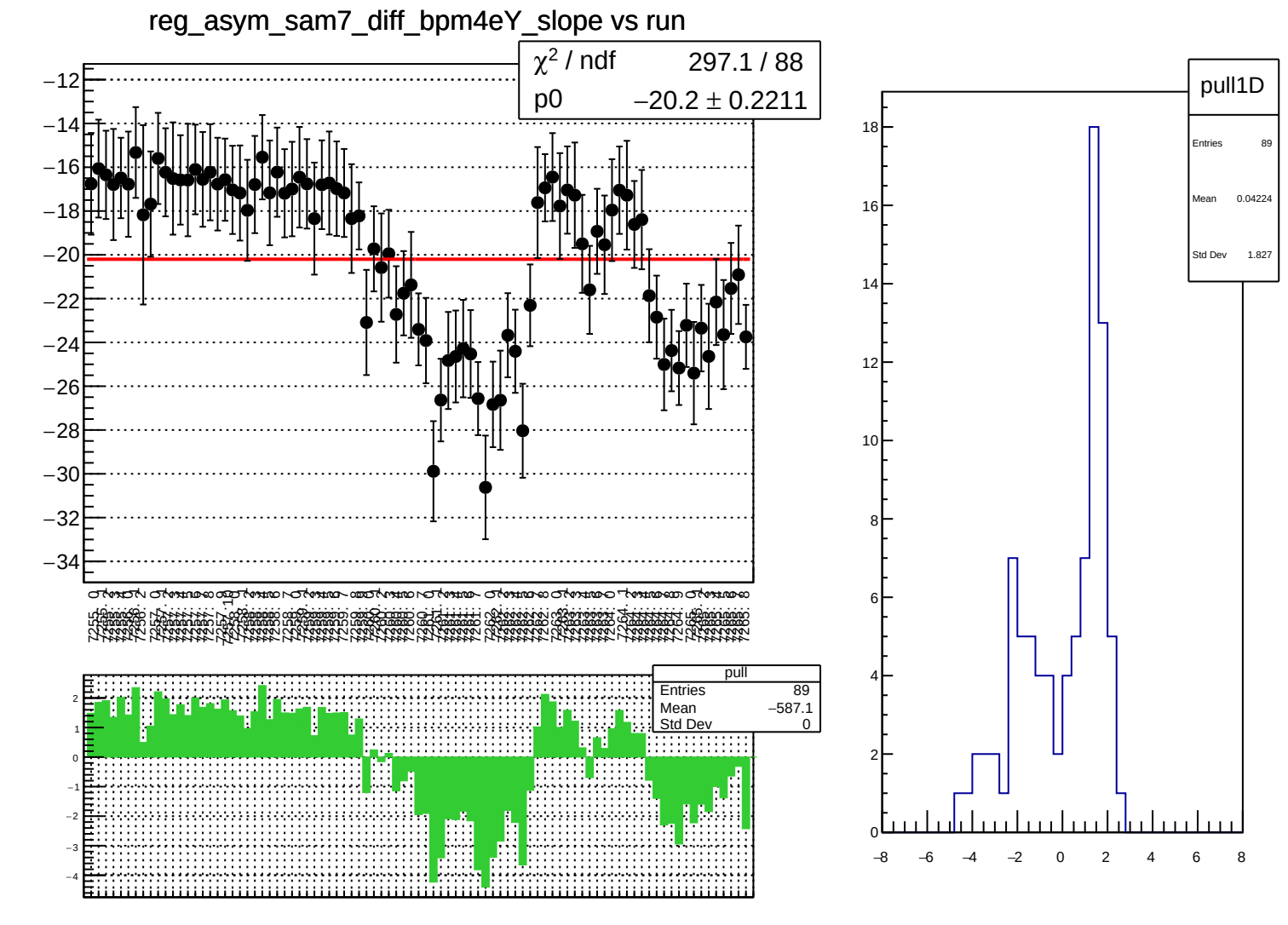

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 7.885 / 88
p0 −0.4321± 0.04345
pull
Entries 89
Mean 717.3
Std Dev 0
pull1D
Entries 89
Mean −0.003551
Std Dev 0.2976

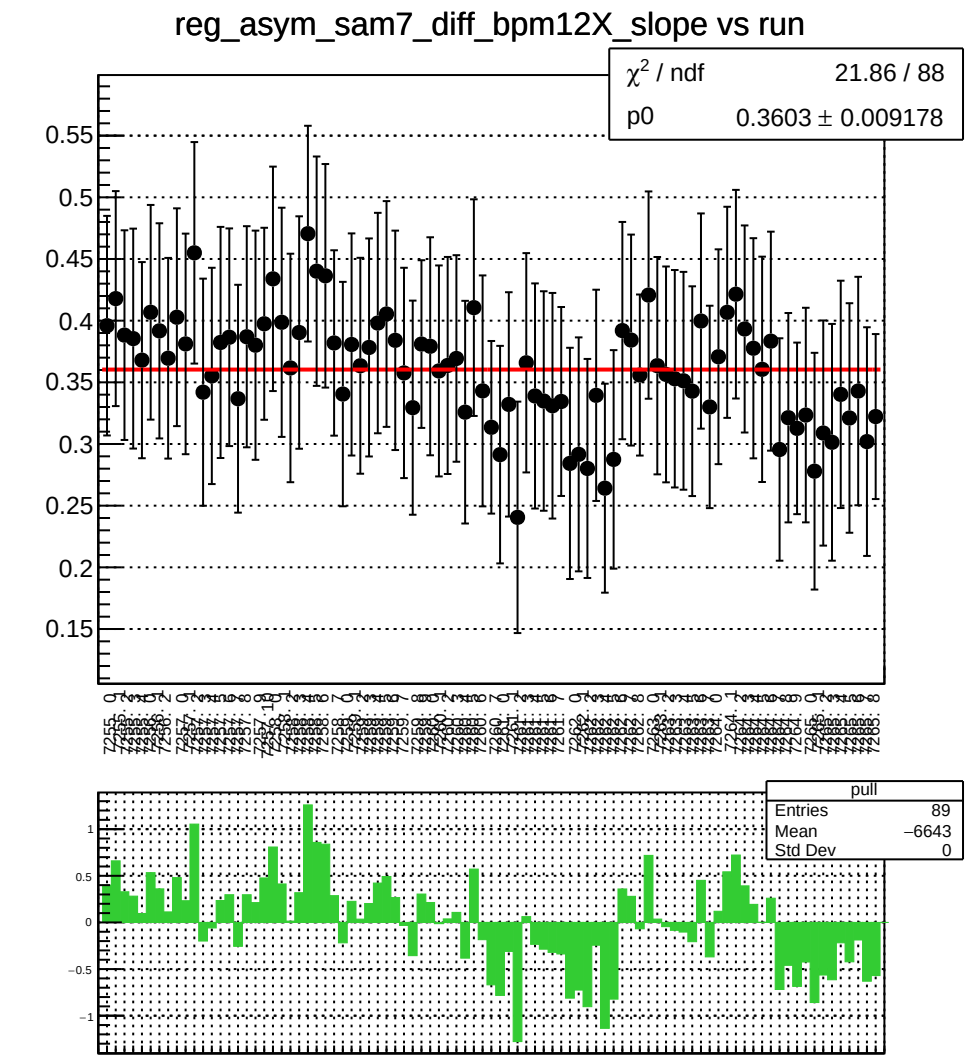

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 835.6 / 88
p0 13.26 ± 0.2405
pull
Entries 89
Mean −95.32
Std Dev 0
pull1D
Entries 89
Mean 0.3395
Std Dev 3.045

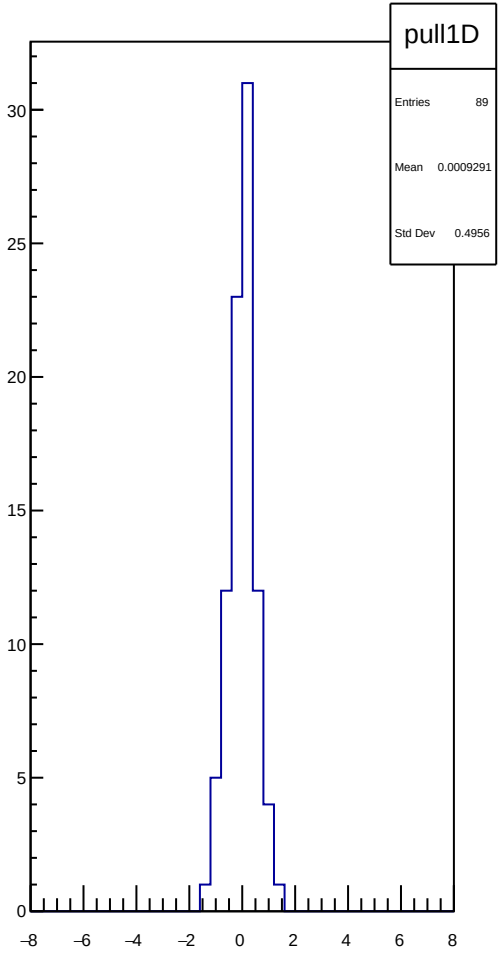

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 258.3 / 88
p0 12.56 ± 0.2102
pull
Entries 89
Mean −956.8
Std Dev 0

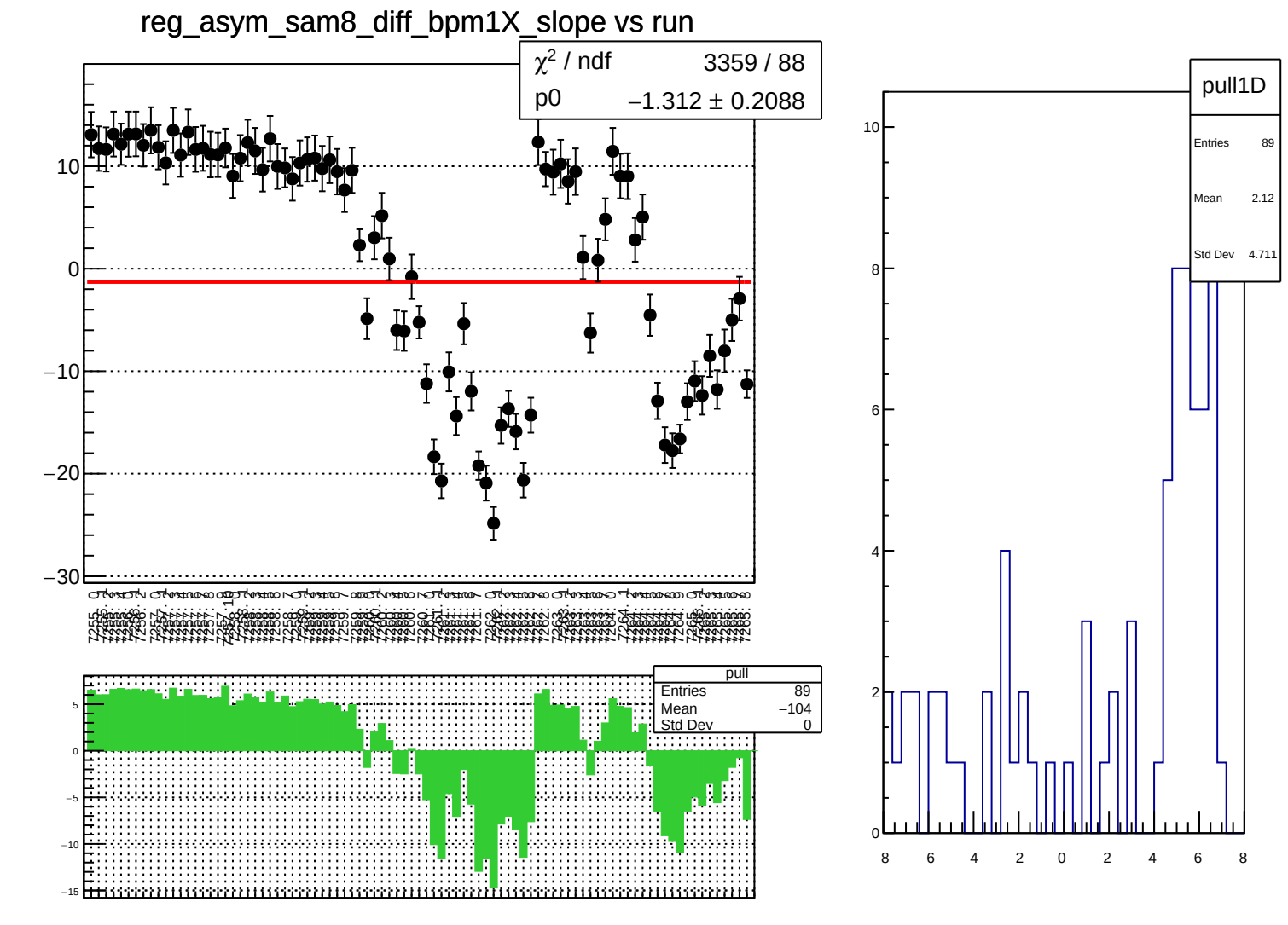

pull1D
Entries 89
Mean −0.02429
Std Dev 1.704

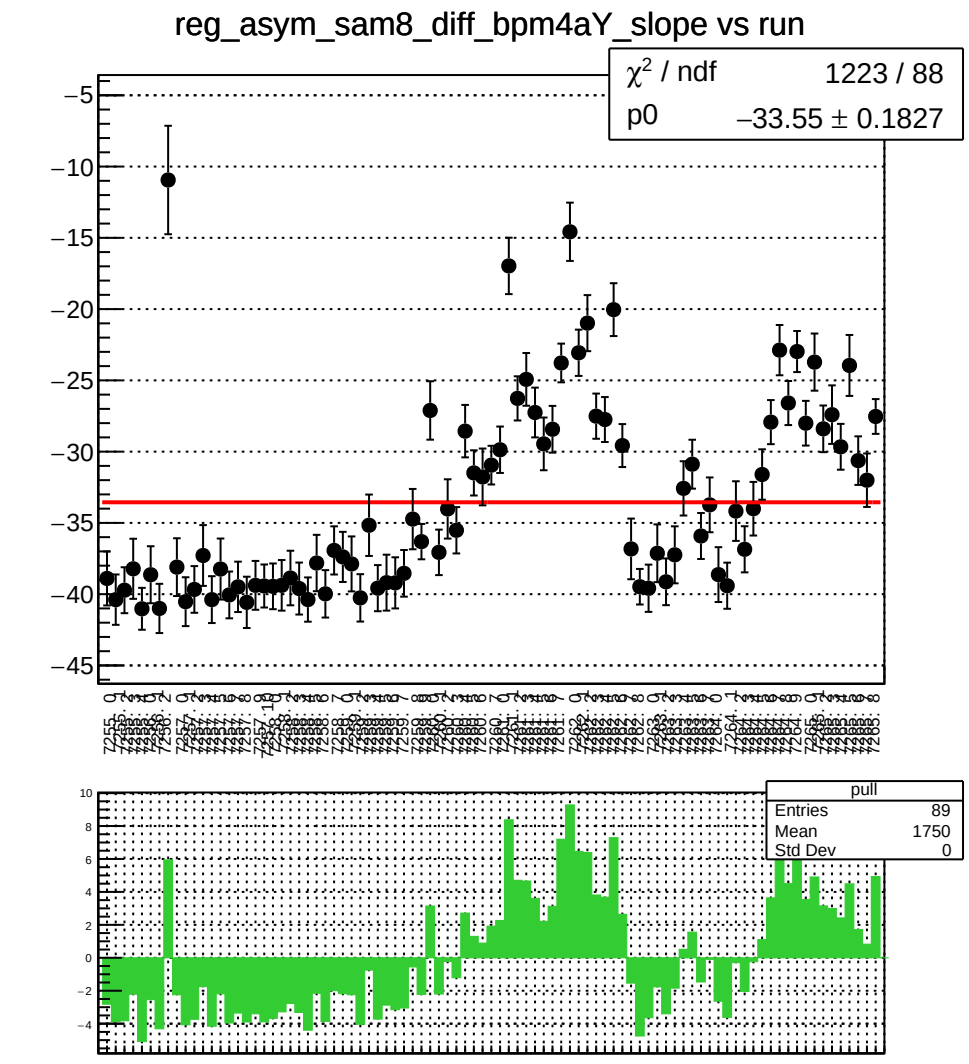

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 751.5 / 88
p0 −44.62 ± 0.2603
pull
Entries 89
Mean −89.36
Std Dev 0
pull1D
Entries 89
Mean −0.3382
Std Dev 2.886

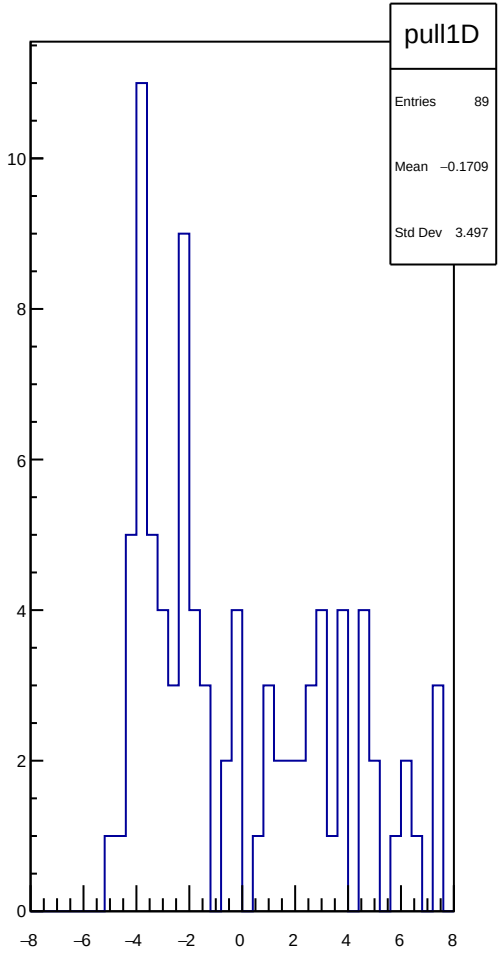

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 297.1 / 88
p0 −20.2 ± 0.2211
pull
Entries 89
Mean −587.1
Std Dev 0
pull1D
Entries 89
Mean 0.04224
Std Dev 1.827

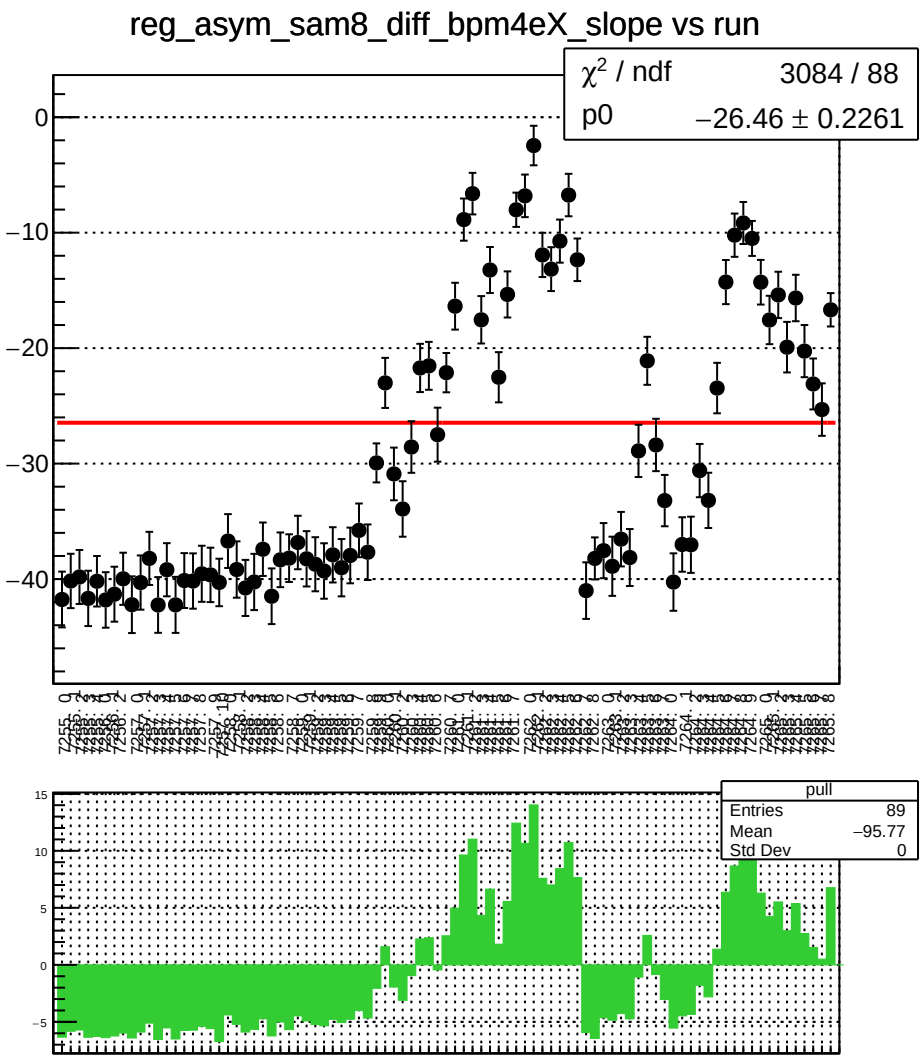

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 21.86 / 88
p0 0.3603 ± 0.009178
pull
Entries 89
Mean −6643
Std Dev 0

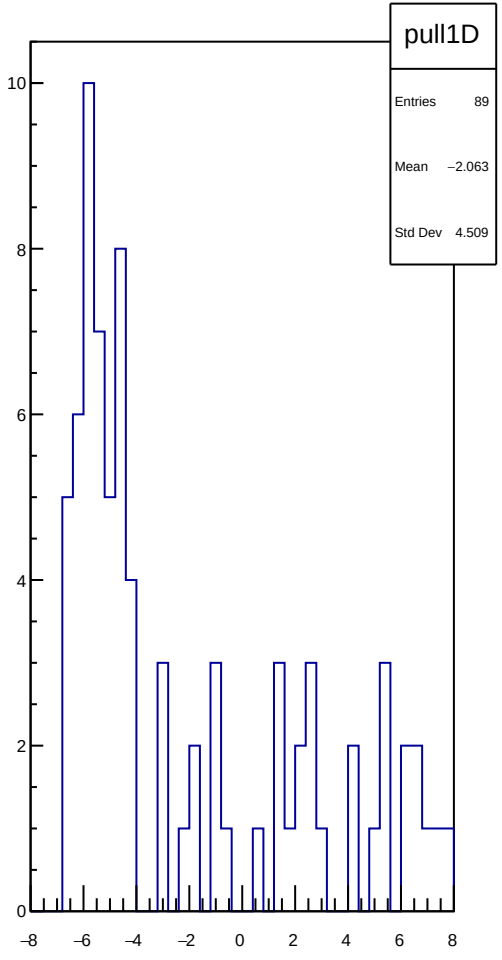

pull1D
Entries 89
Mean 0.0009291
Std Dev 0.4956

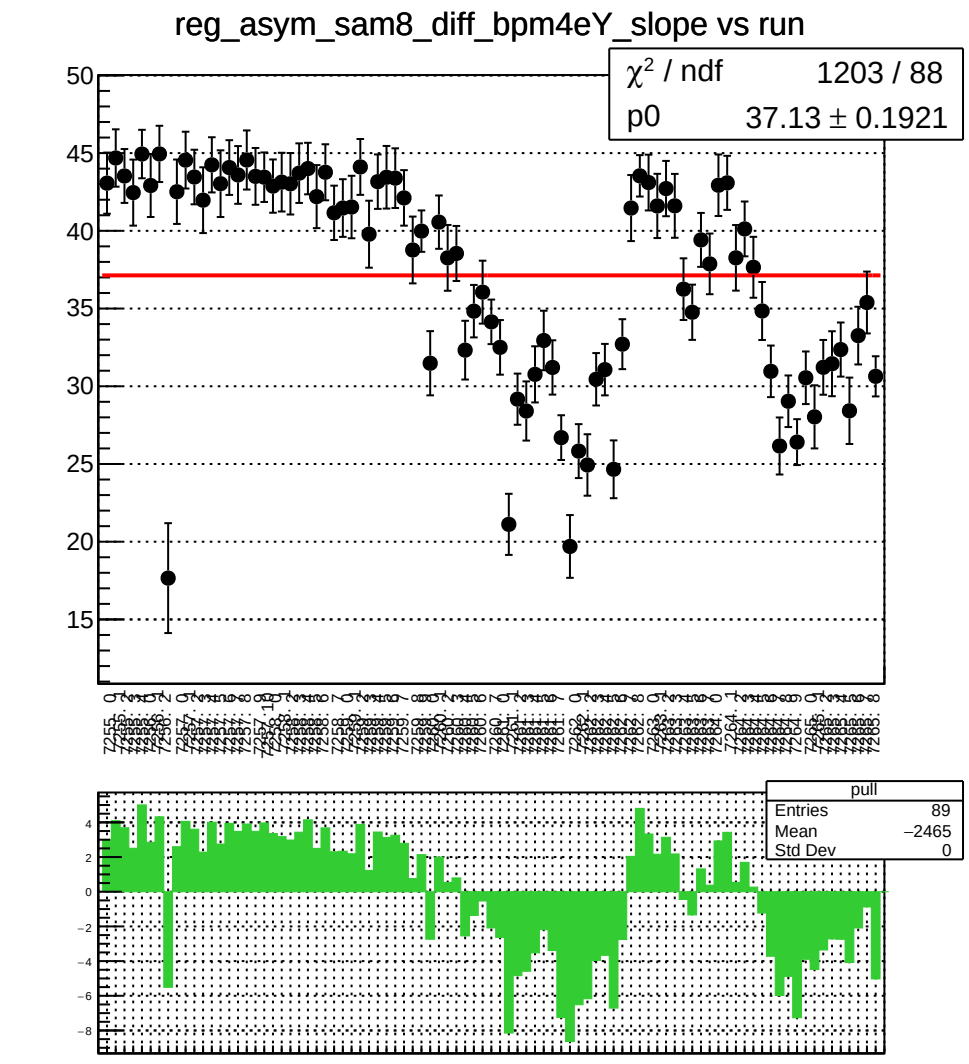

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 3359 / 88
p0 −1.312 ± 0.2088
pull
Entries 89
Mean −104
Std Dev 0
pull1D
Entries 89
Mean 2.12
Std Dev 4.711

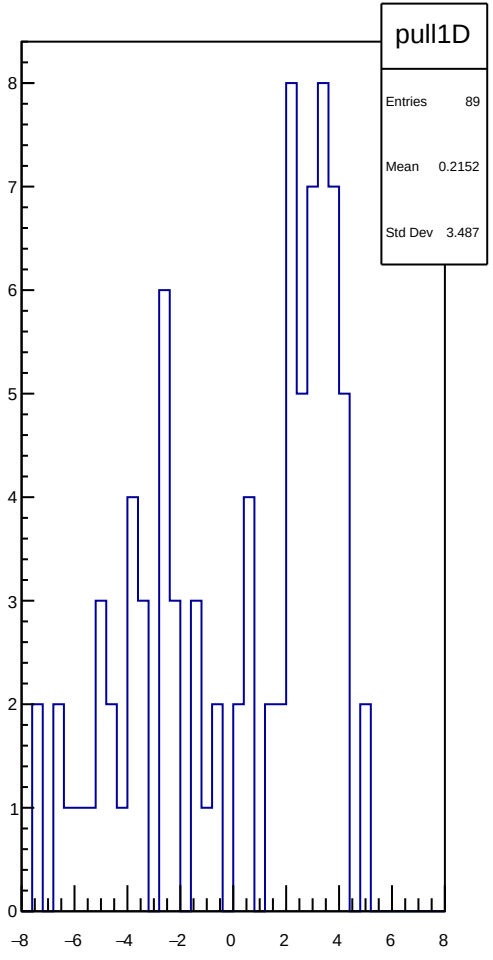

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 1223 / 88
p0 −33.55 ± 0.1827
pull
Entries 89
Mean 1750
Std Dev 0

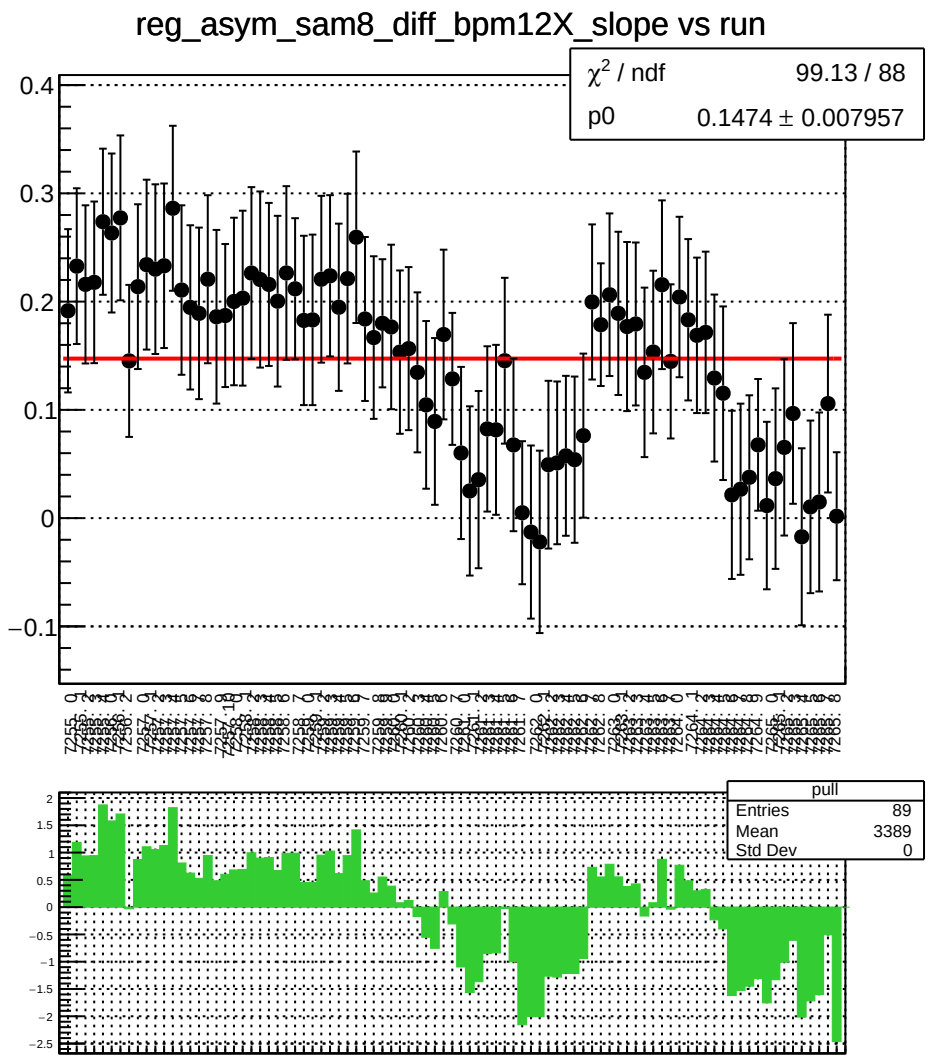

pull1D
Entries 89
Mean −0.1709
Std Dev 3.497

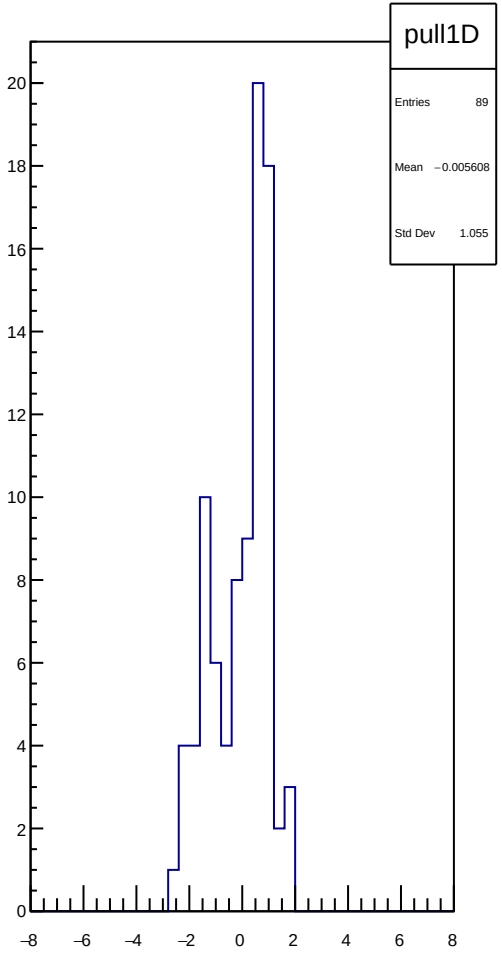

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 3084 / 88
p0 −26.46 ± 0.2261
pull
Entries 89
Mean −95.77
Std Dev 0

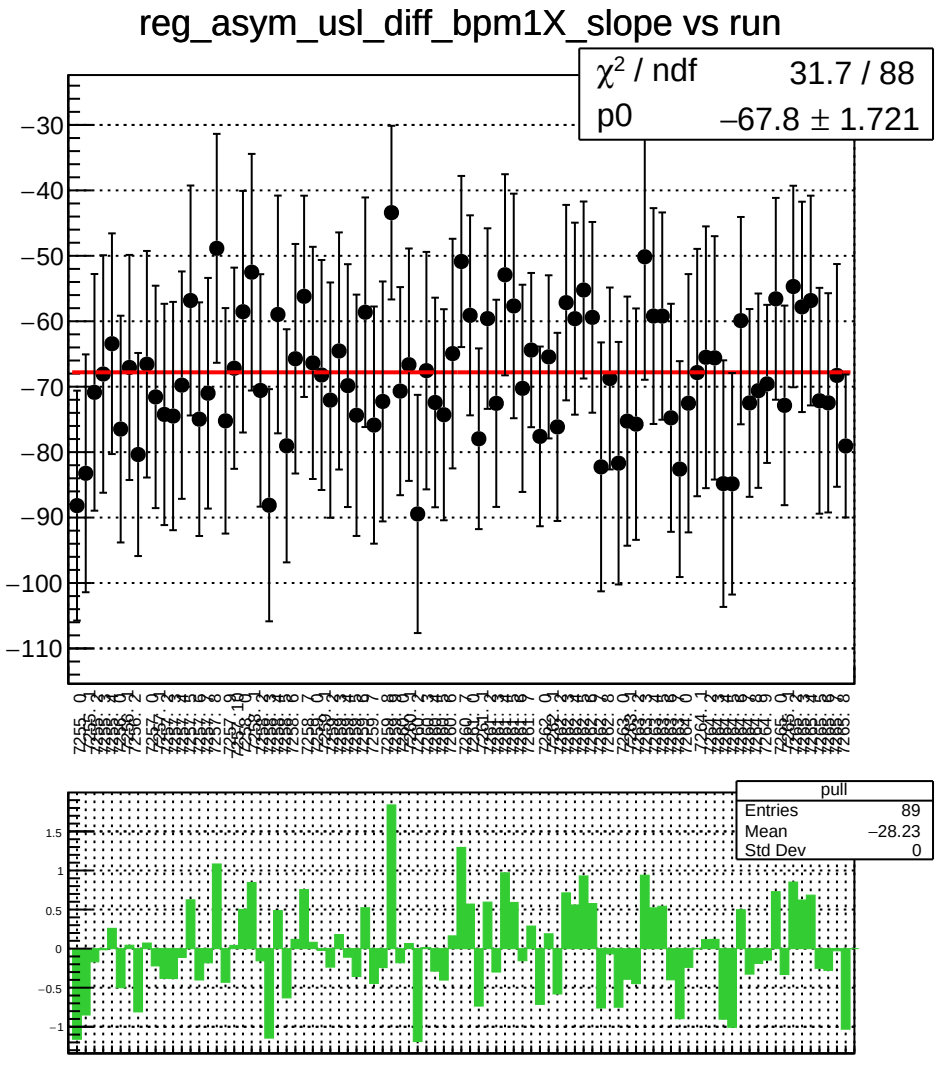

pull1D
Entries 89
Mean −2.063
Std Dev 4.509

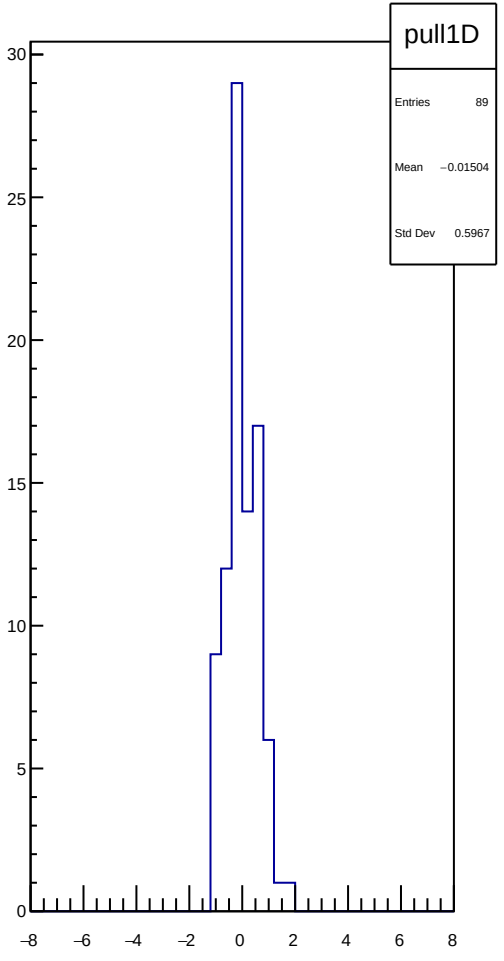

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 1203 / 88
p0 37.13 ± 0.1921
pull
Entries 89
Mean −2465
Std Dev 0

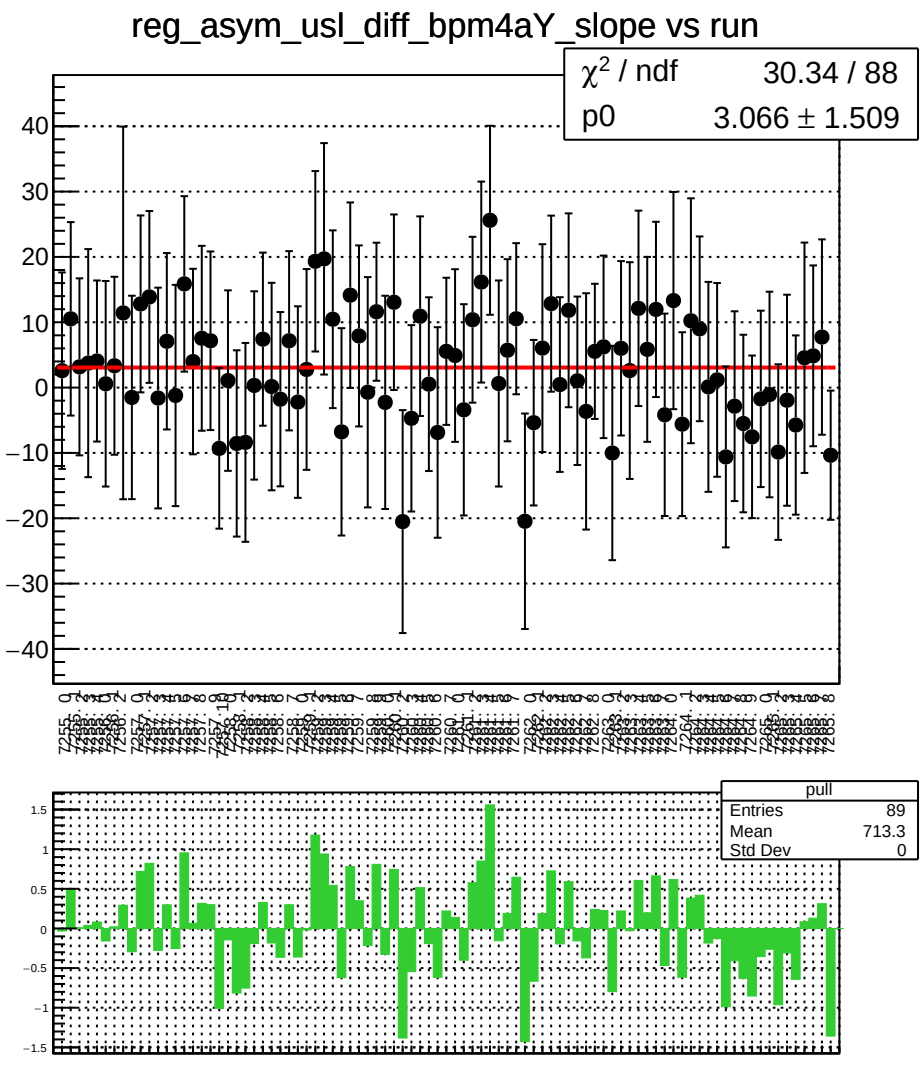

pull1D
Entries 89
Mean 0.2152
Std Dev 3.487

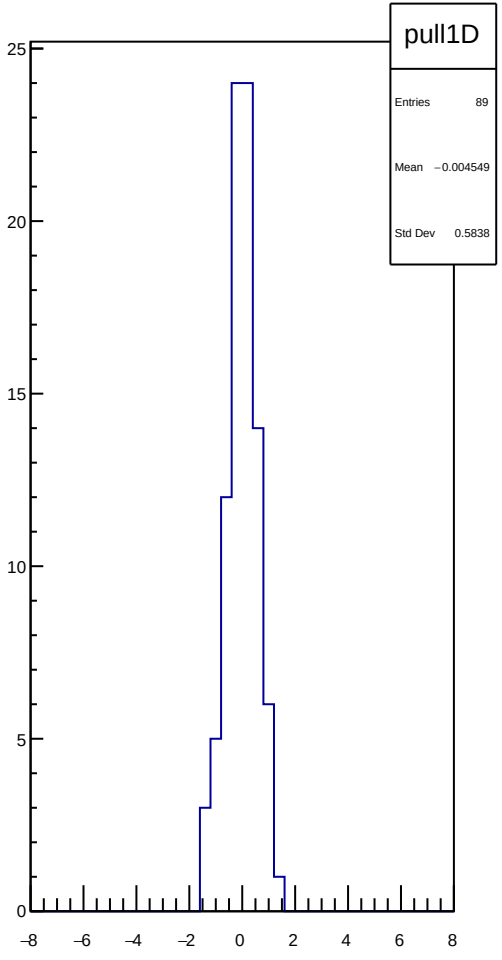

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 99.13 / 88
p0 0.1474 ± 0.007957
pull
Entries 89
Mean 3389
Std Dev 0

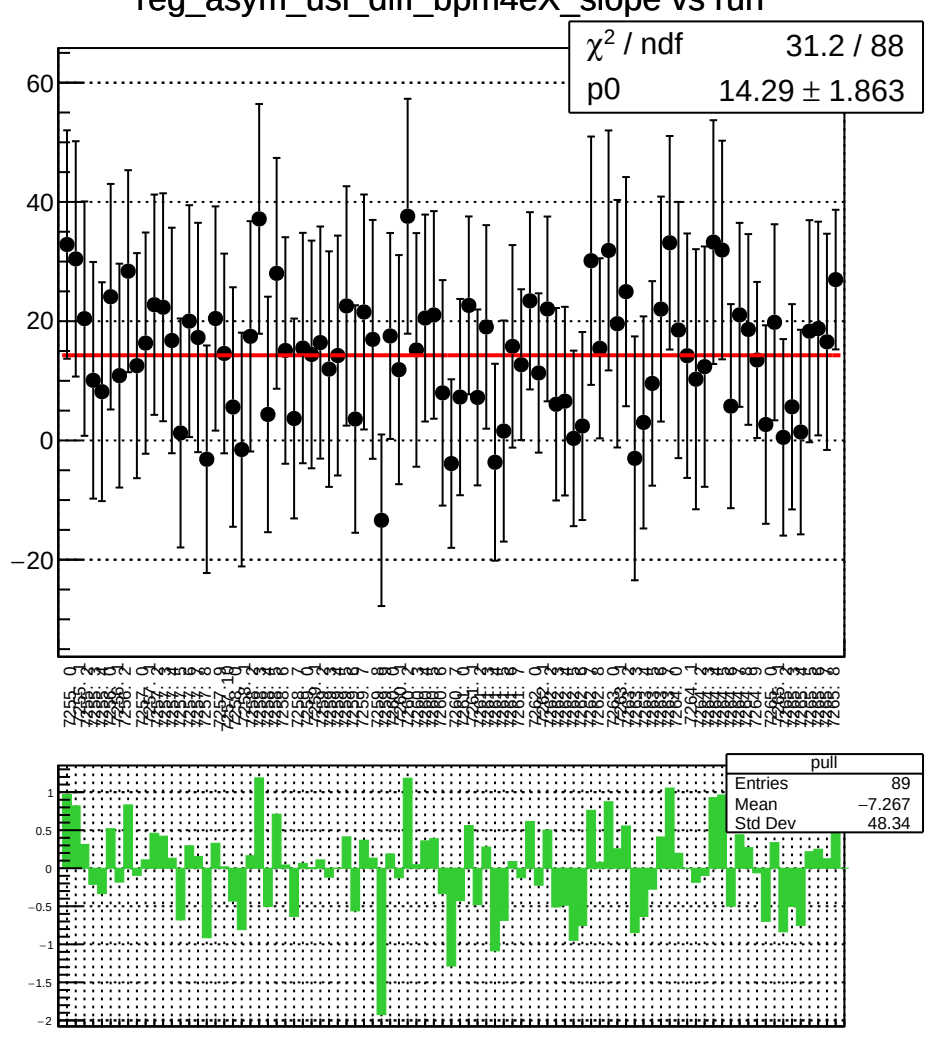

pull1D
Entries 89
Mean −0.005608
Std Dev 1.055

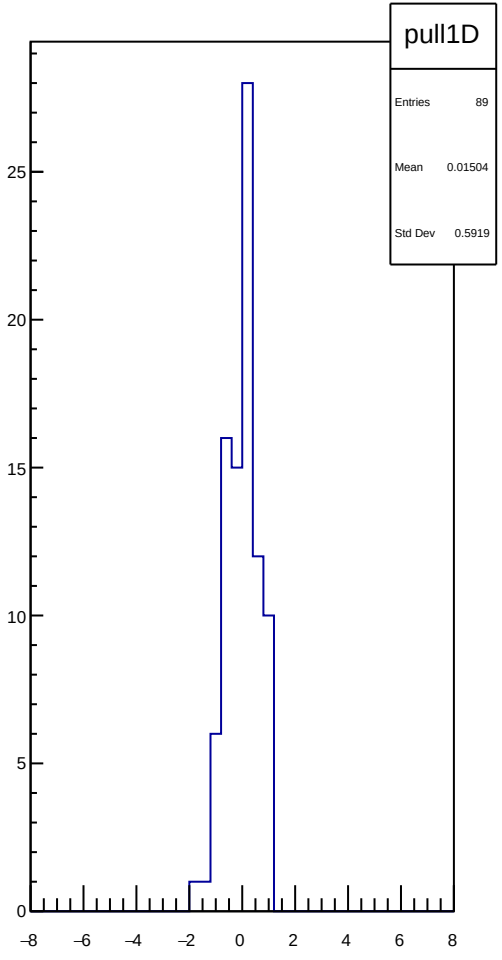

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 31.7 / 88
p0 −67.8 ± 1.721
pull
Entries 89
Mean −28.23
Std Dev 0

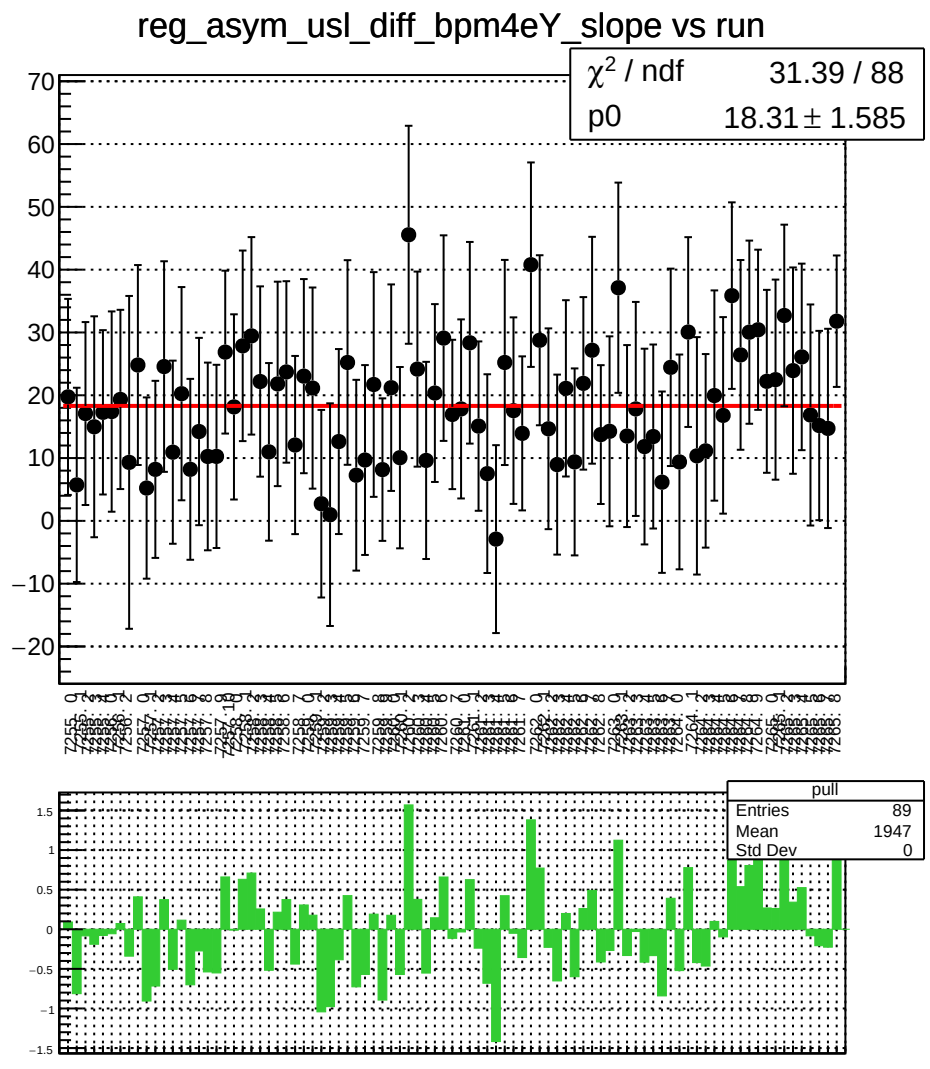

pull1D
Entries 89
Mean −0.01504
Std Dev 0.5967

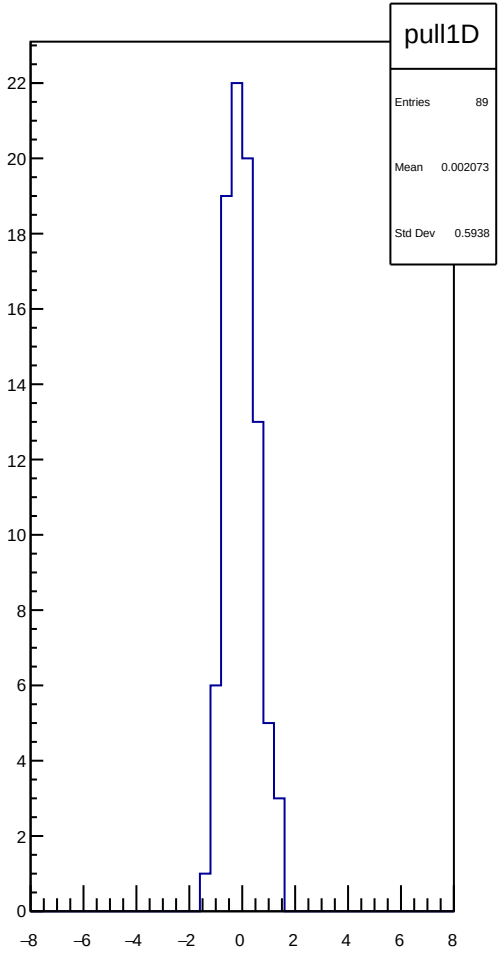

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 30.34 / 88
p0 3.066 ± 1.509
pull
Entries 89
Mean 713.3
Std Dev 0

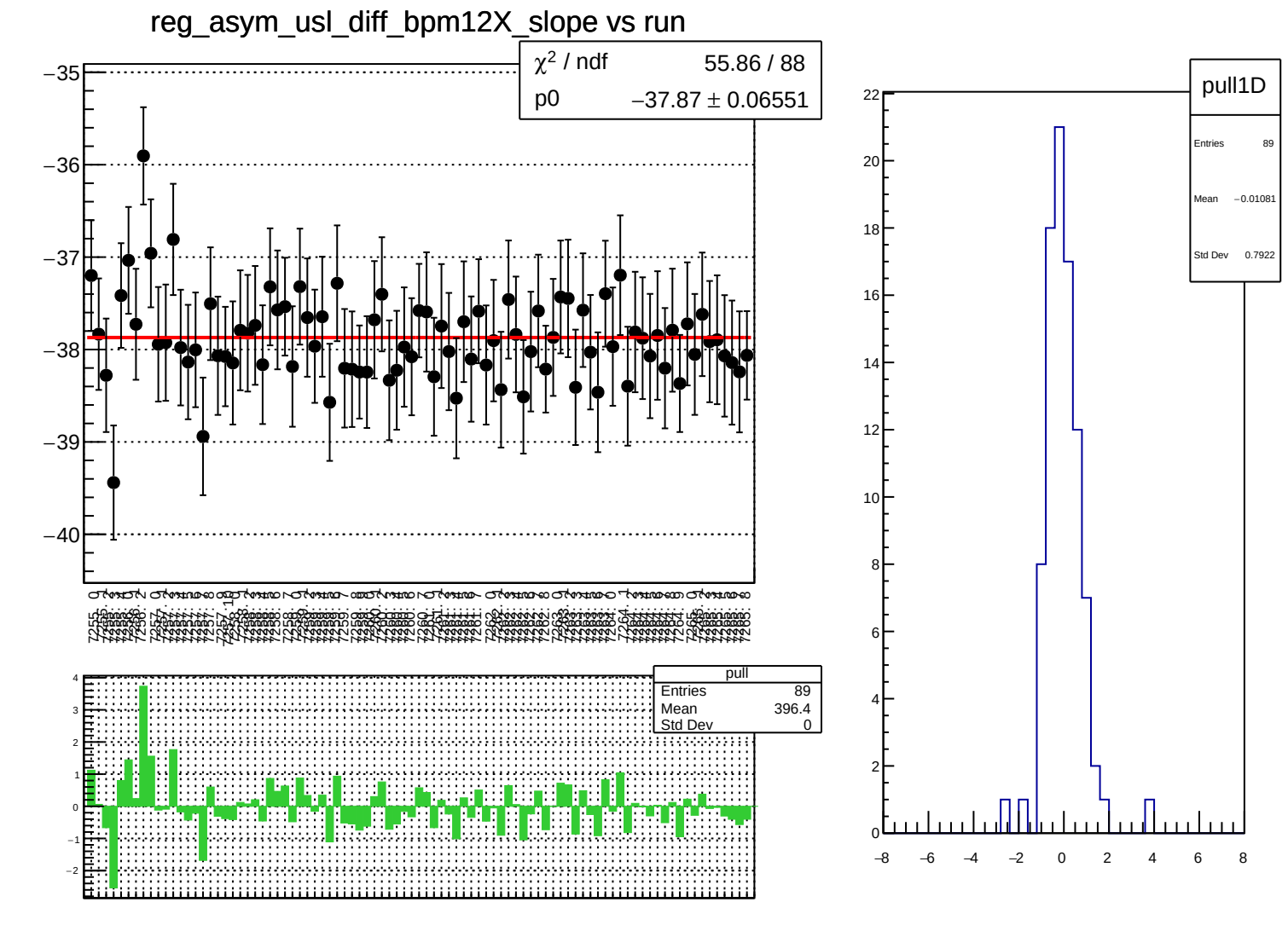

pull1D
Entries 89
Mean −0.004549
Std Dev 0.5838

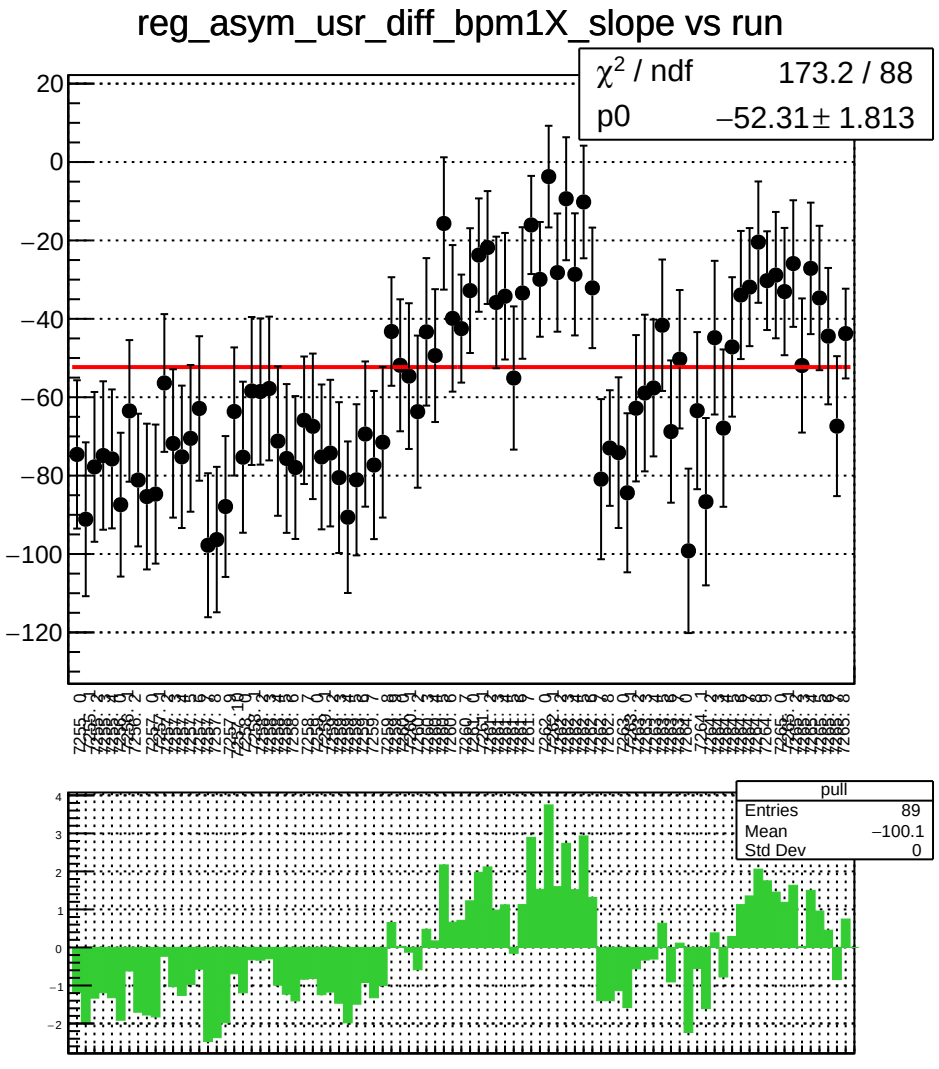

reg_asym_usl_diff_bpm4eX_slope vs run
χ^2 / ndf 31.2 / 88
p0 14.29 ± 1.863
pull
Entries 89
Mean −7.267
Std Dev 48.34

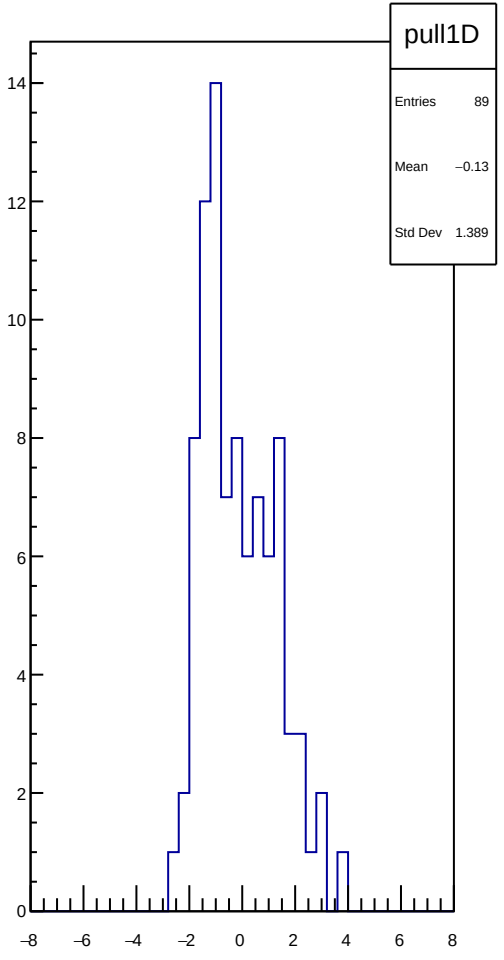

pull1D
Entries 89
Mean 0.01504
Std Dev 0.5919

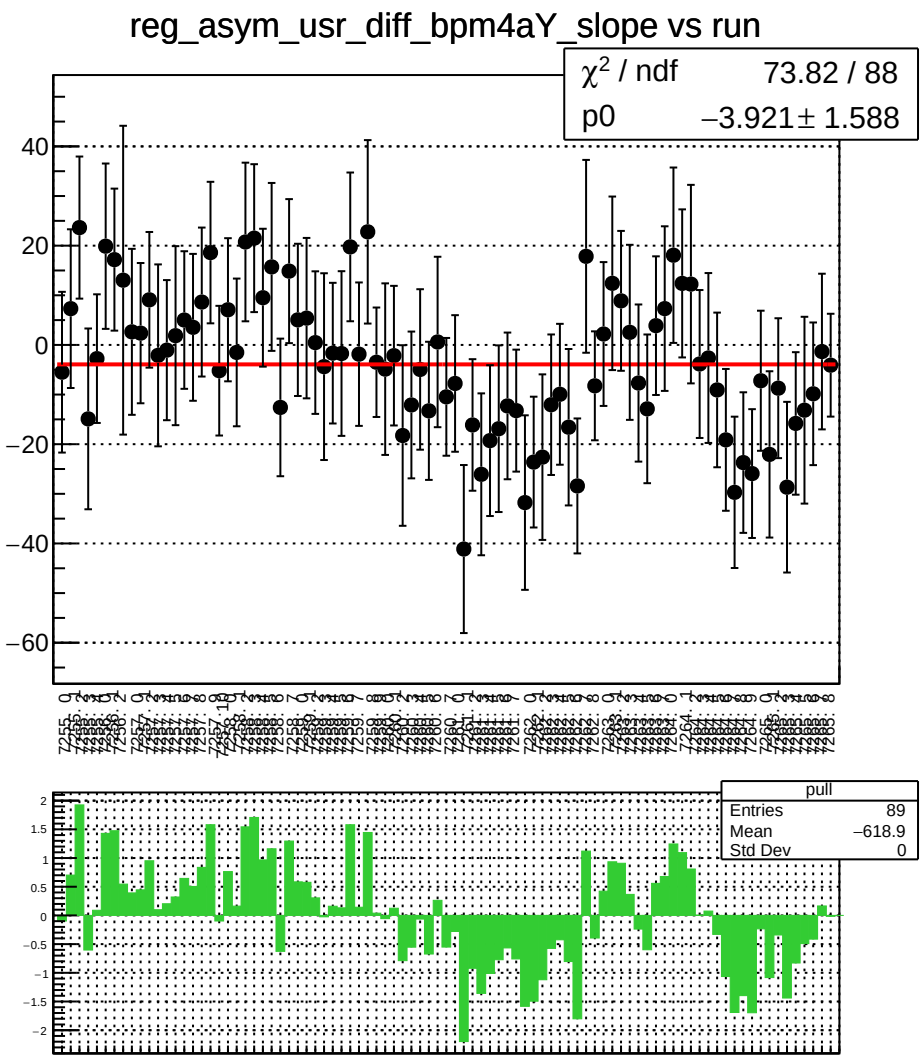

reg_asym_usl_diff_bpm4eY_slope vs run
χ^2 / ndf 31.39 / 88
p0 18.31 ± 1.585
pull
Entries 89
Mean 1947
Std Dev 0

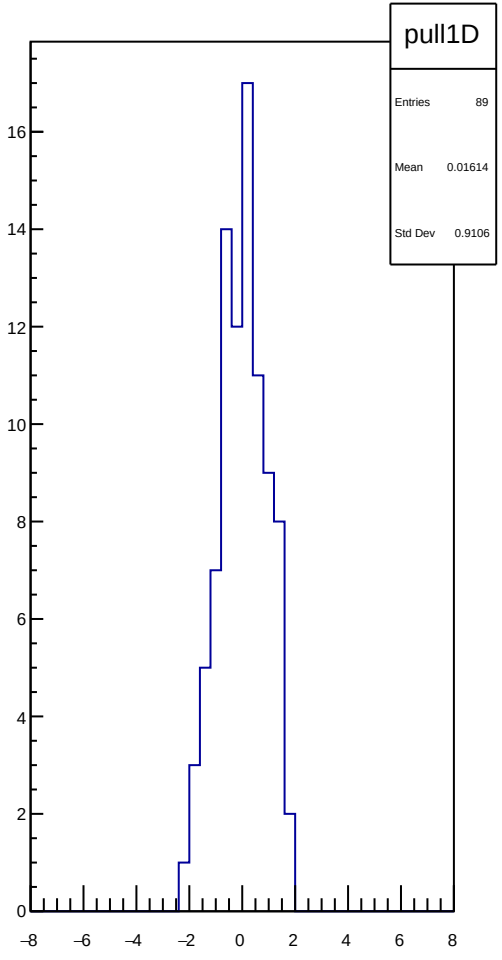

pull1D
Entries 89
Mean 0.002073
Std Dev 0.5938

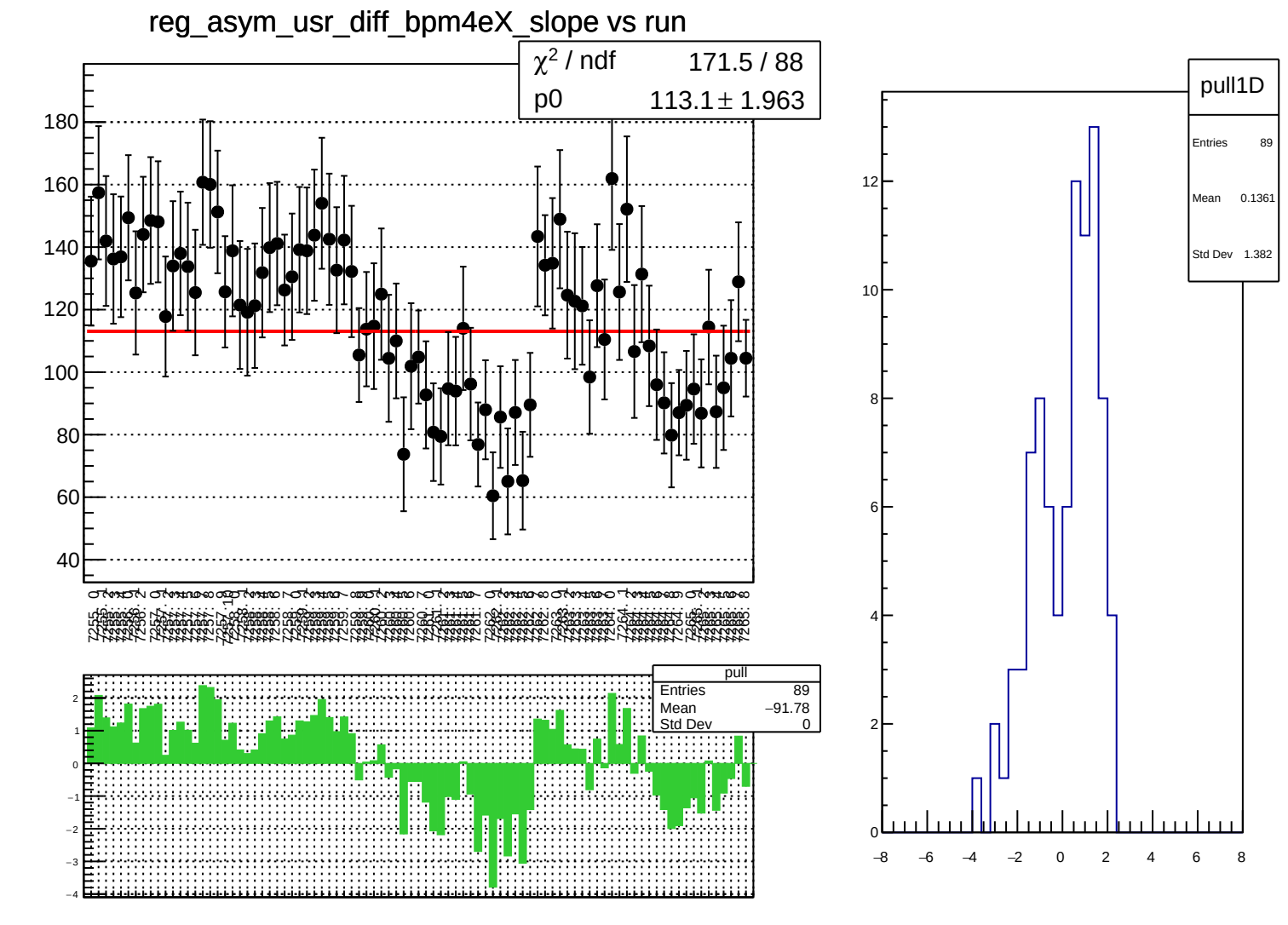

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 55.86 / 88
p0 −37.87 ± 0.06551
pull
Entries 89
Mean 396.4
Std Dev 0
pull1D
Entries 89
Mean −0.01081
Std Dev 0.7922

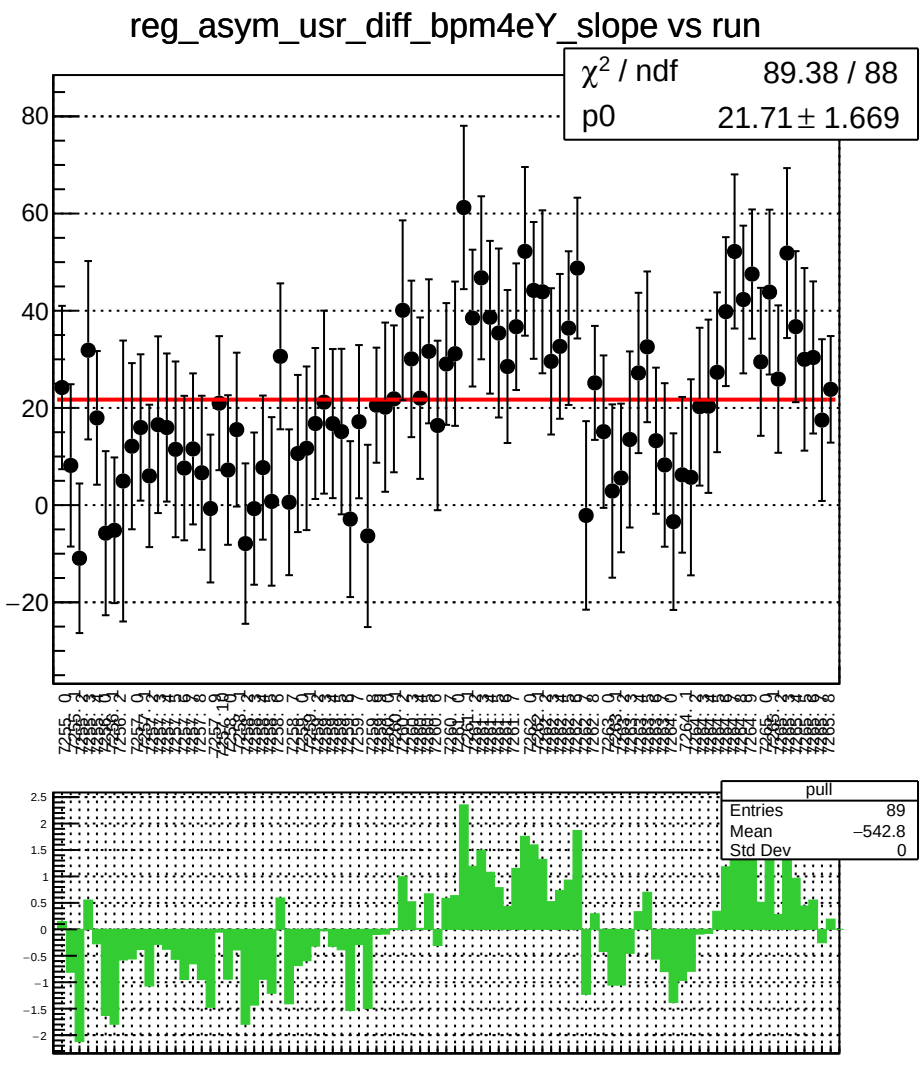

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 173.2 / 88
p0 −52.31 ± 1.813
pull
Entries 89
Mean −100.1
Std Dev 0

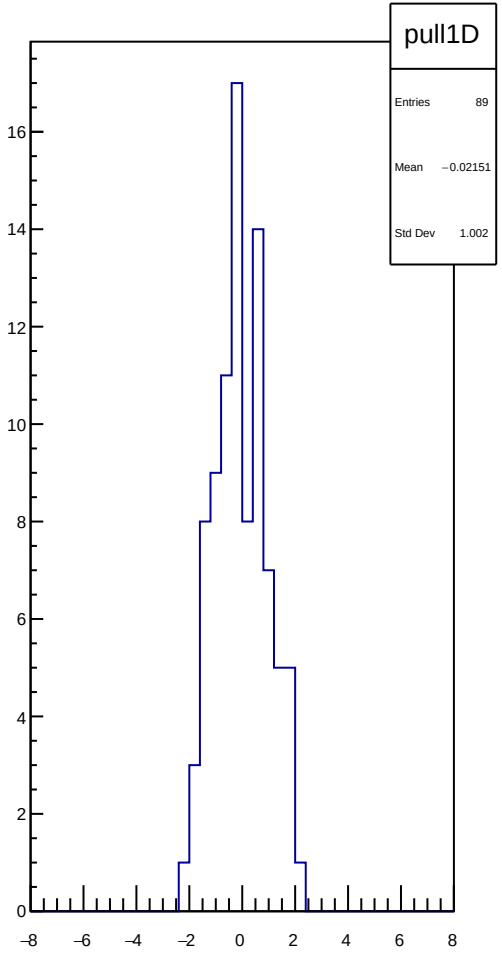

pull1D
Entries 89
Mean −0.13
Std Dev 1.389

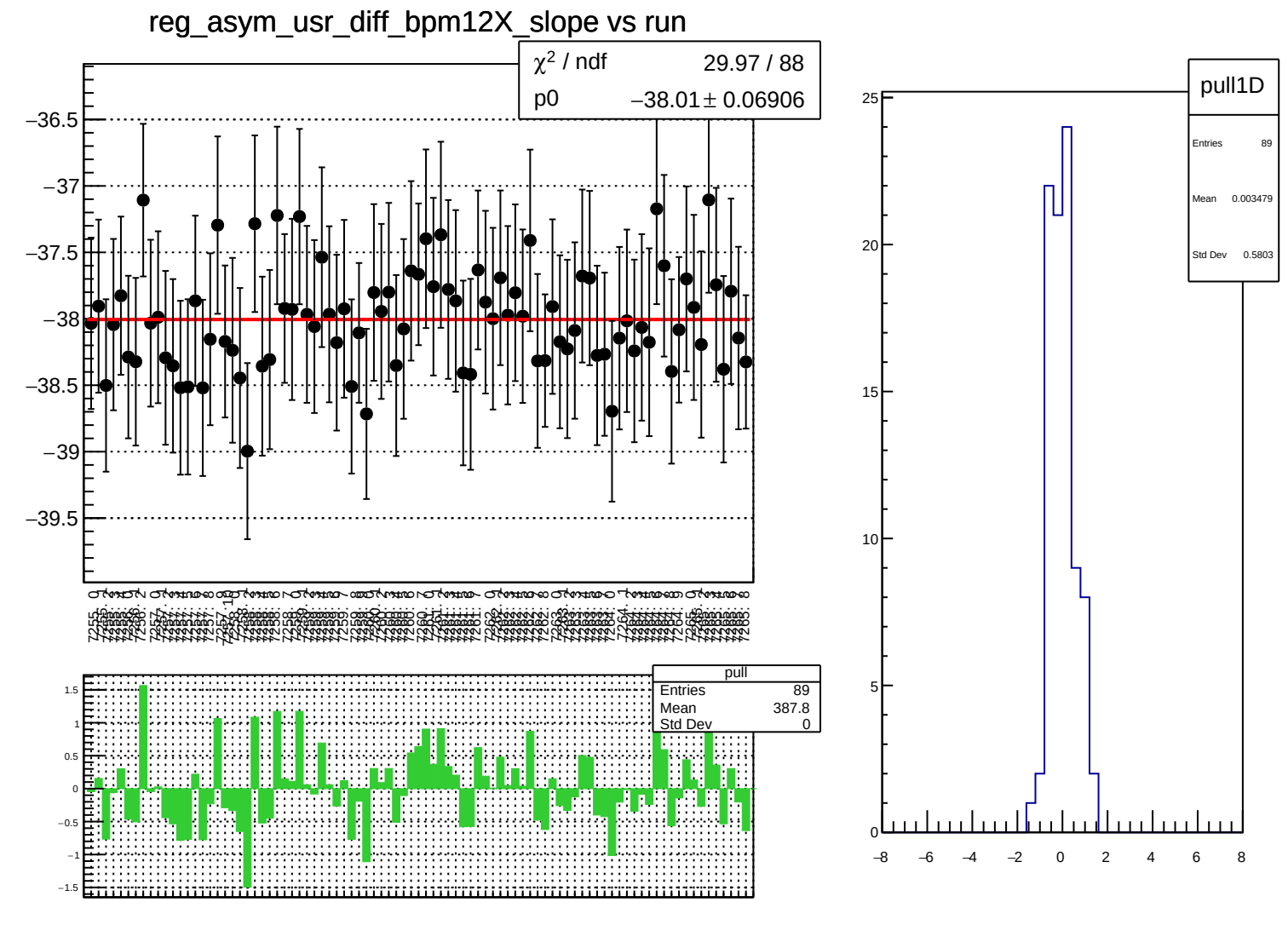

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 73.82 / 88
p0 −3.921 ± 1.588
pull
Entries 89
Mean −618.9
Std Dev 0

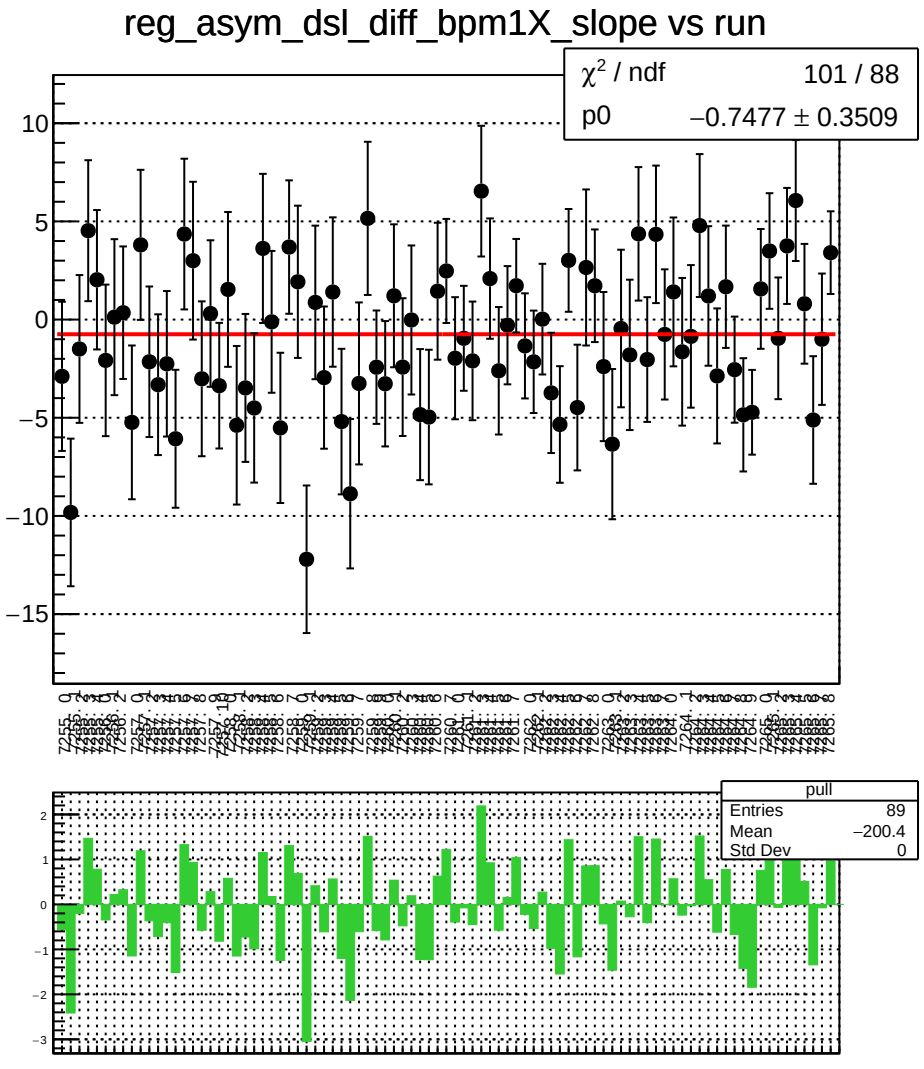

pull1D
Entries 89
Mean 0.01614
Std Dev 0.9106

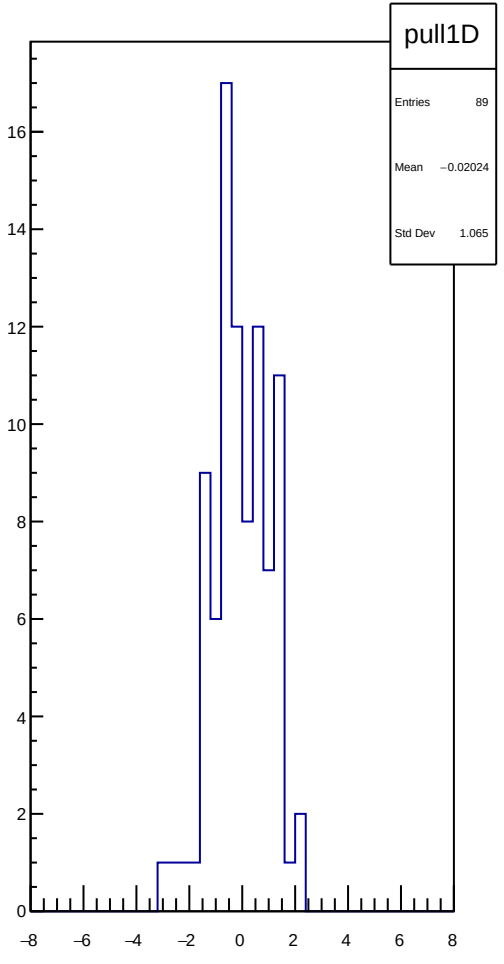

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 171.5 / 88
p0 113.1 ± 1.963
pull
Entries 89
Mean −91.78
Std Dev 0
pull1D
Entries 89
Mean 0.1361
Std Dev 1.382

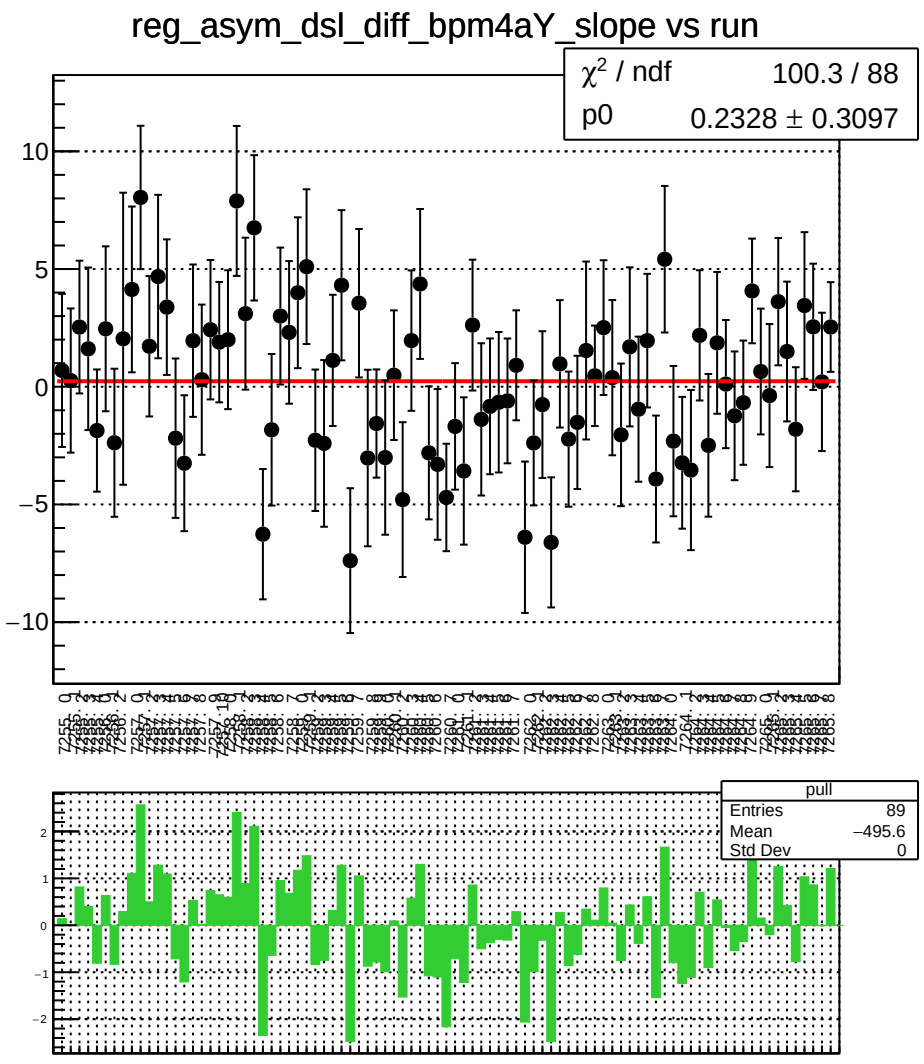

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 89.38 / 88
p0 21.71 ± 1.669
pull
Entries 89
Mean −542.8
Std Dev 0

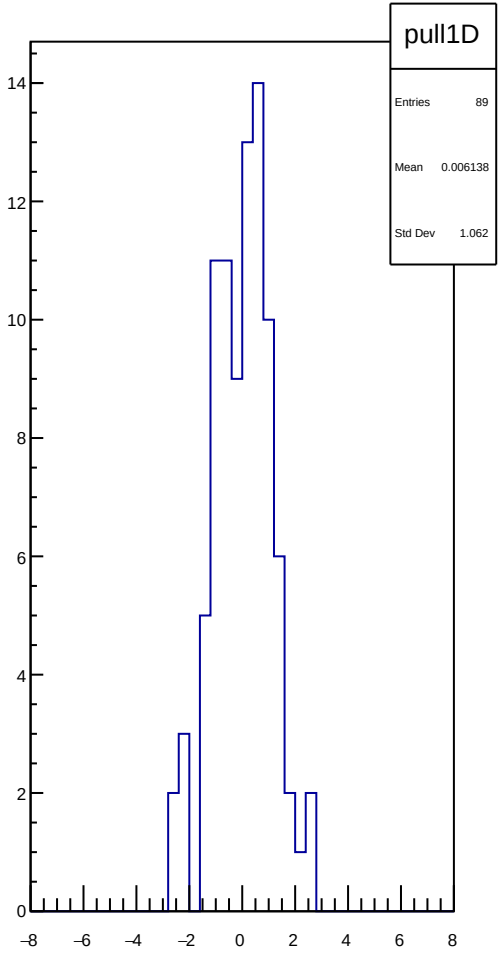

pull1D
Entries 89
Mean −0.02151
Std Dev 1.002

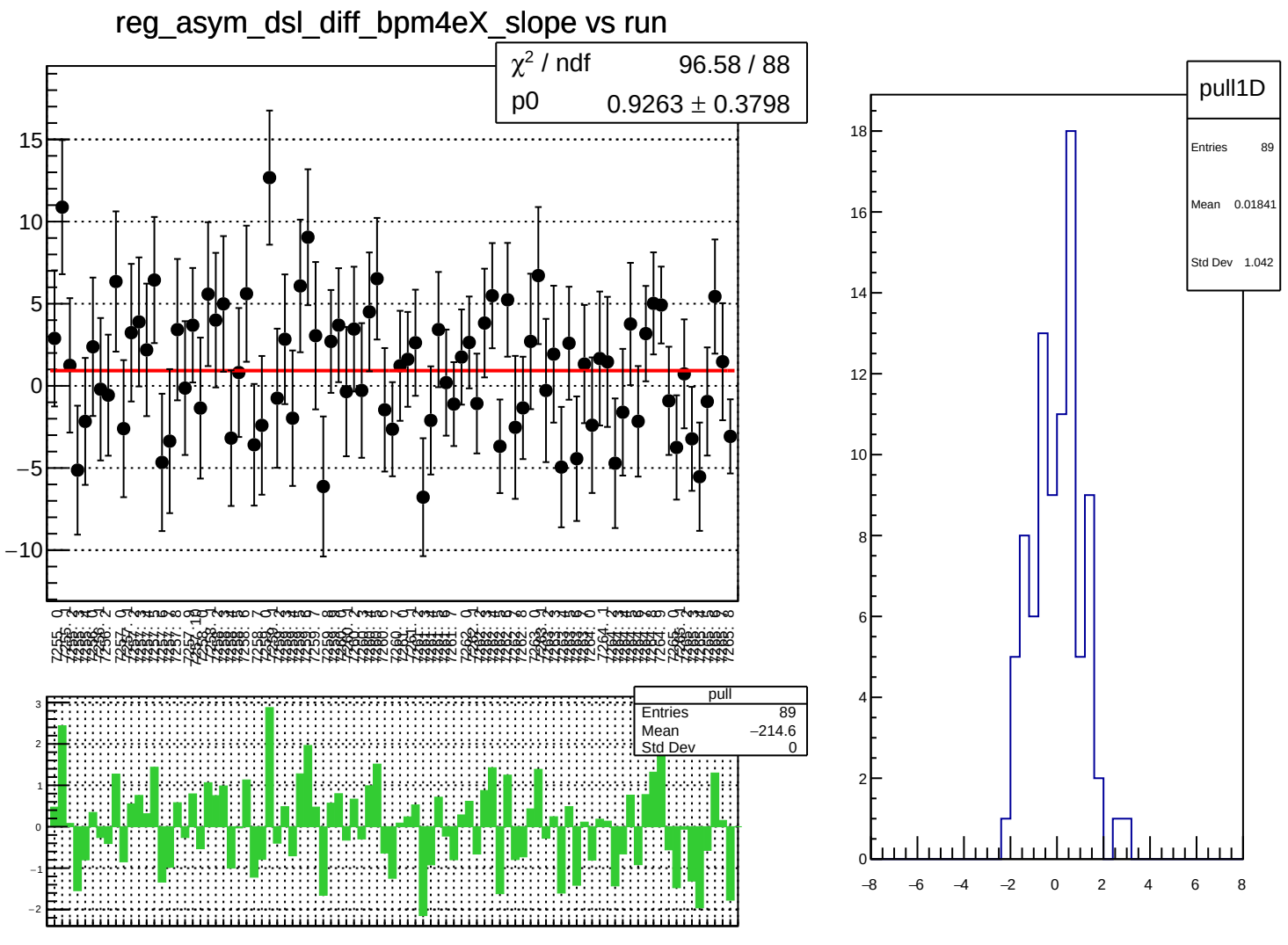

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 29.97 / 88
p0 −38.01 ± 0.06906
−36.5
−37
−37.5
−38
−38.5
−39
−39.5
pull
Entries 89
Mean 387.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.003479
Std Dev 0.5803
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

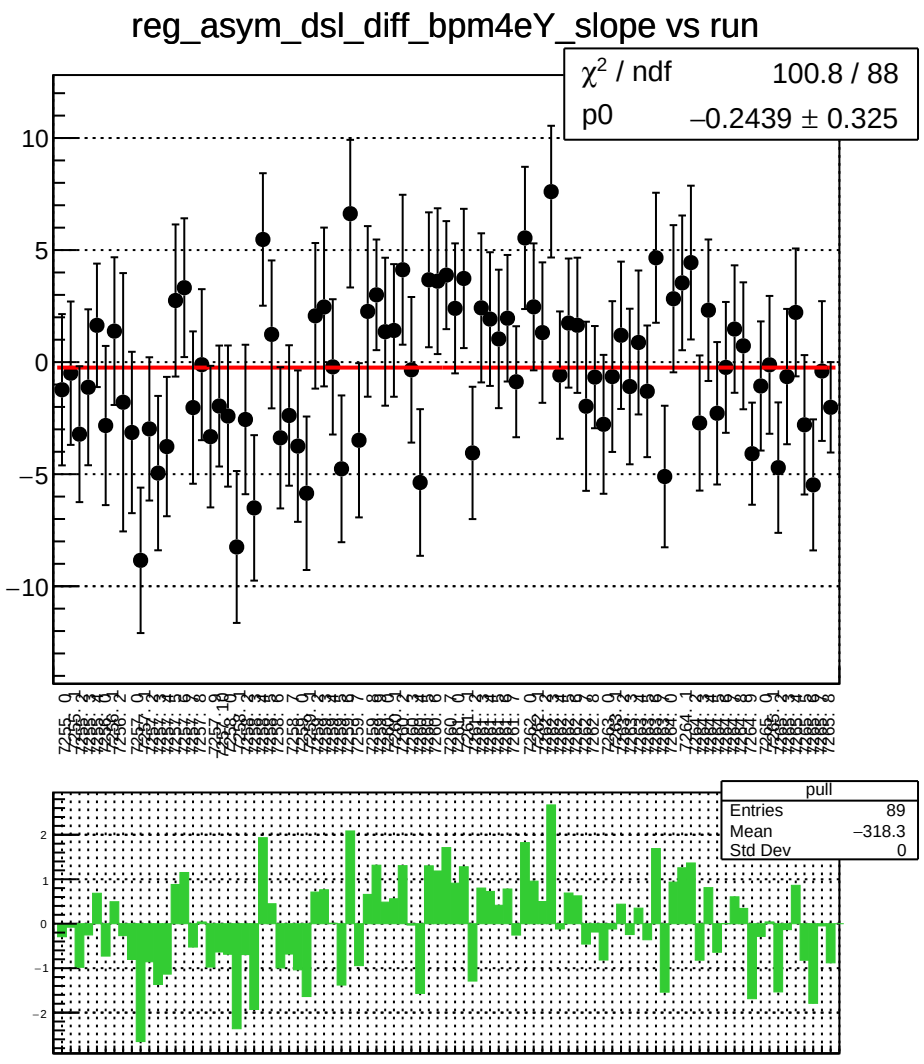

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 101 / 88
p0 −0.7477 ± 0.3509
pull
Entries 89
Mean −200.4
Std Dev 0

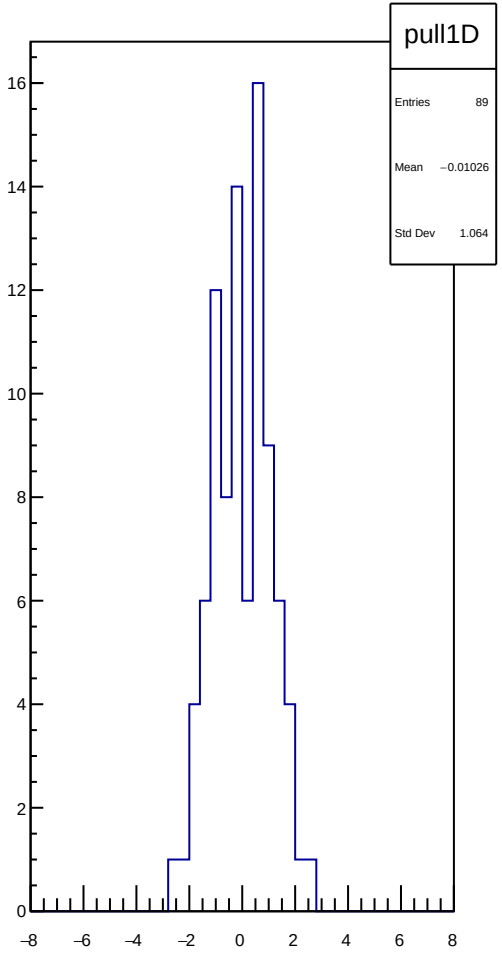

pull1D
Entries 89
Mean −0.02024
Std Dev 1.065

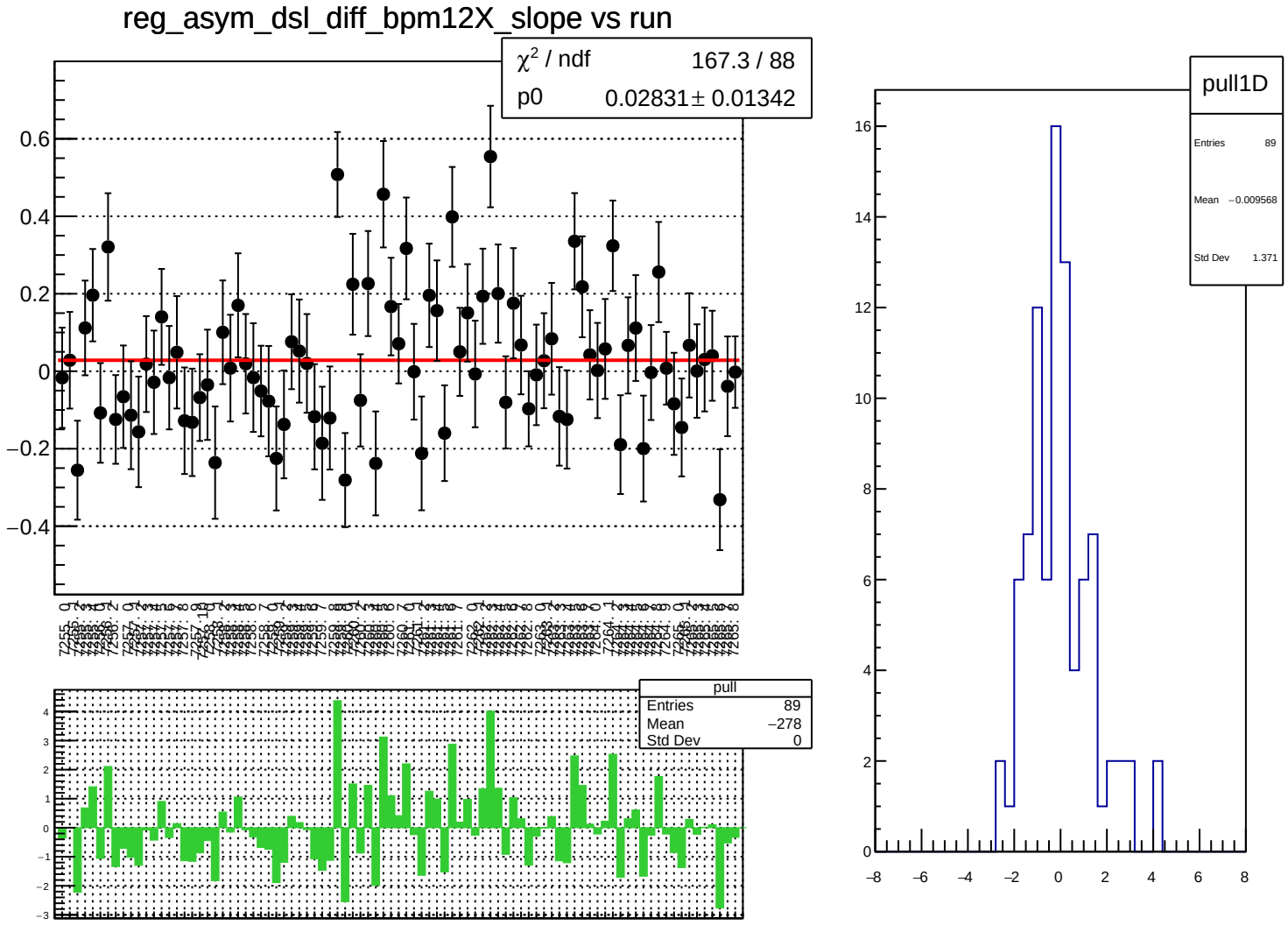

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 100.3 / 88
p0 0.2328 ± 0.3097
pull
Entries 89
Mean −495.6
Std Dev 0

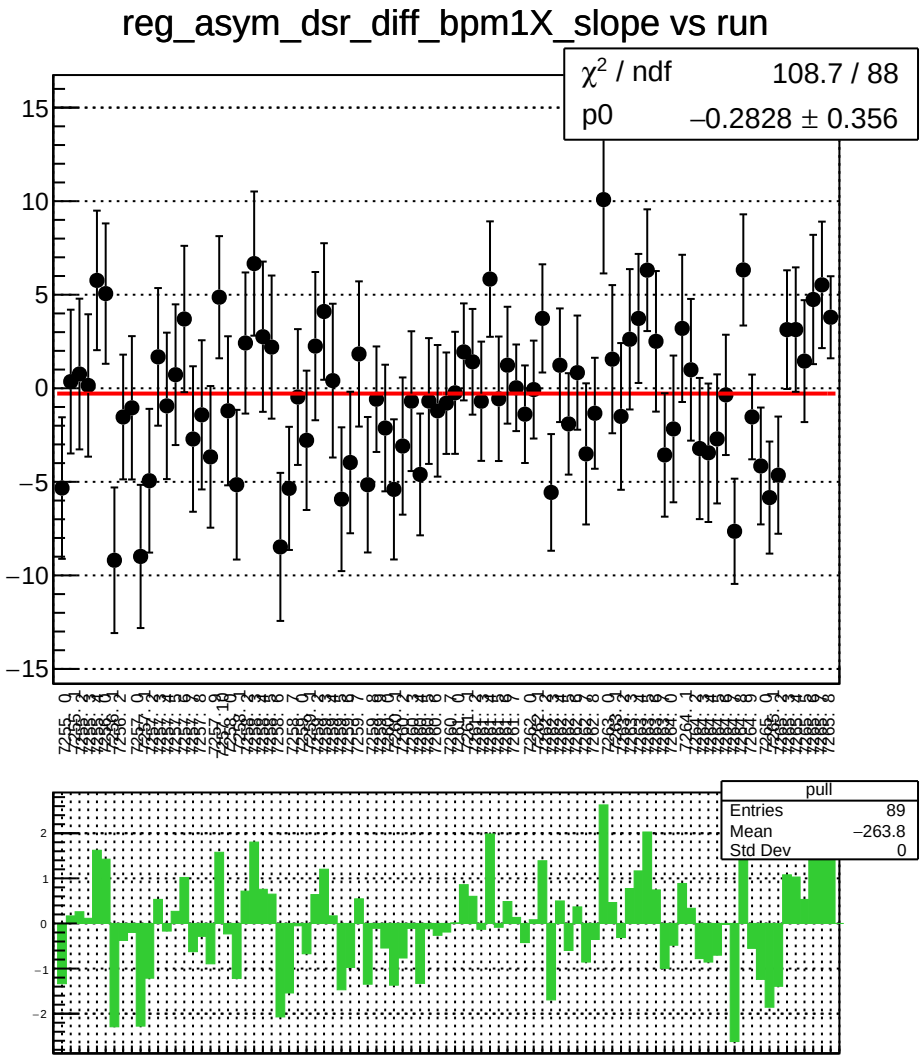

pull1D
Entries 89
Mean 0.006138
Std Dev 1.062

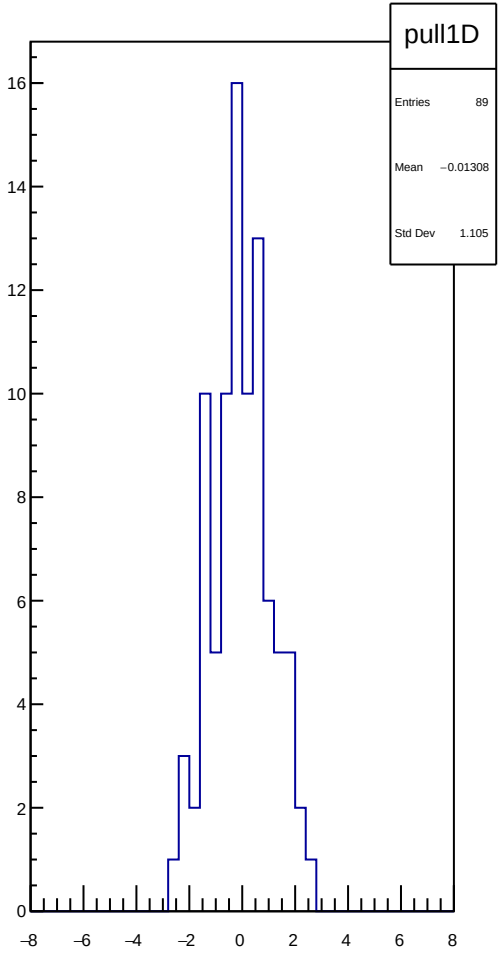

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 96.58 / 88
p0 0.9263 ± 0.3798
pull
Entries 89
Mean −214.6
Std Dev 0
pull1D
Entries 89
Mean 0.01841
Std Dev 1.042

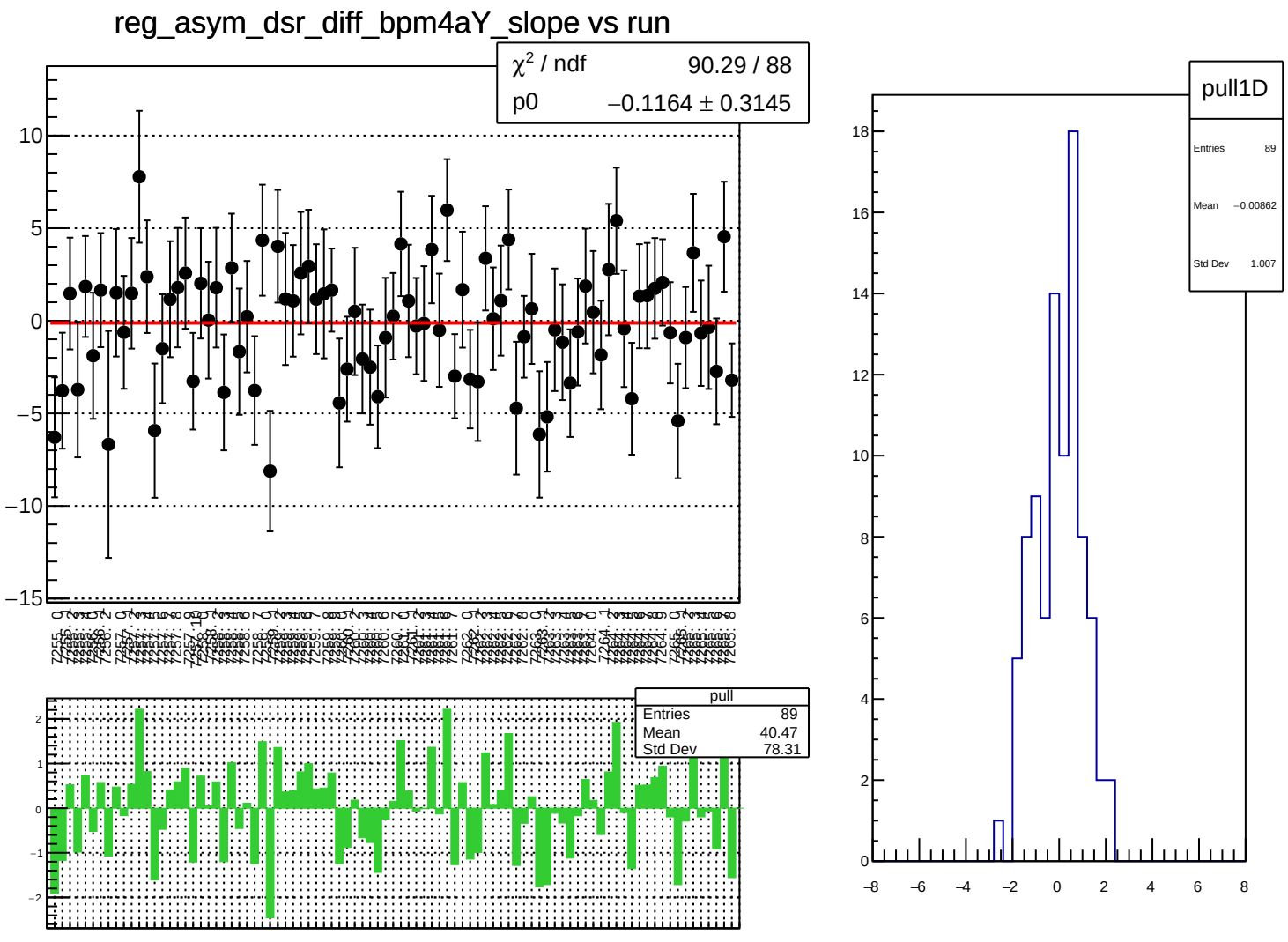

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 100.8 / 88
p0 −0.2439 ± 0.325
pull
Entries 89
Mean −318.3
Std Dev 0

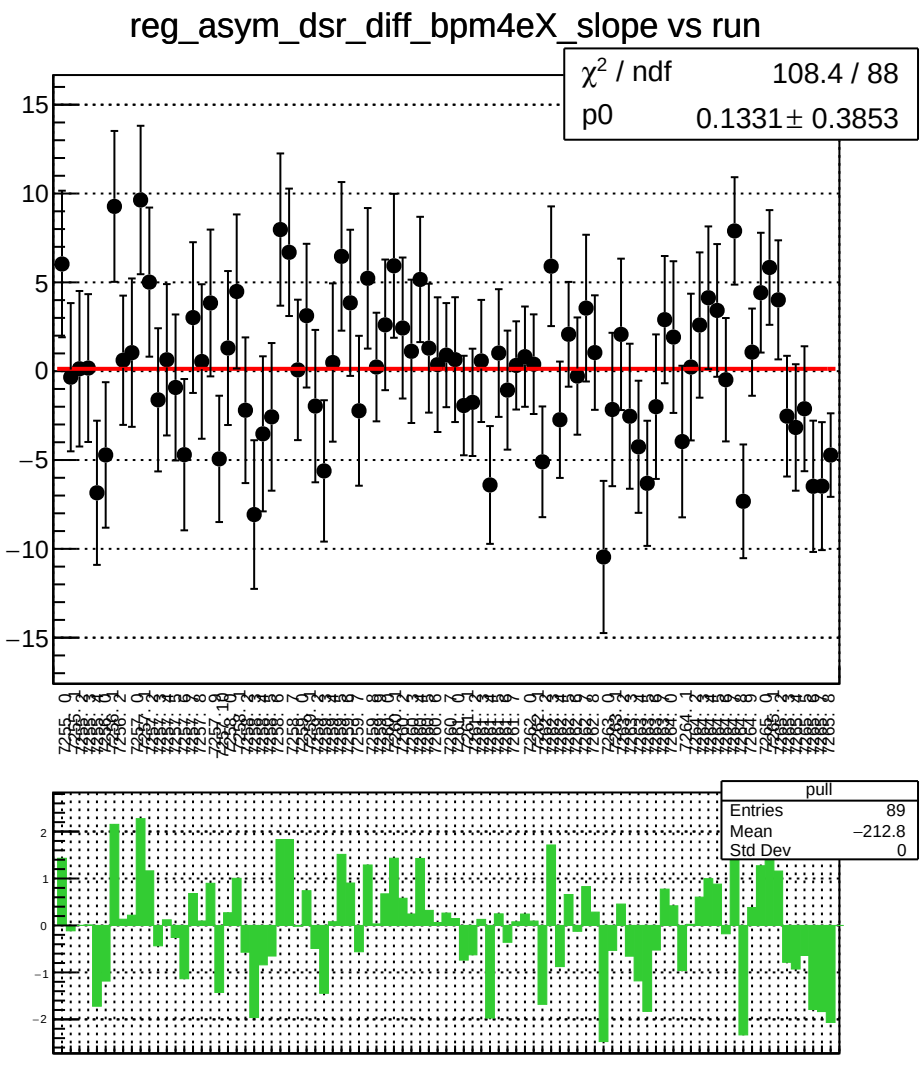

pull1D
Entries 89
Mean −0.01026
Std Dev 1.064

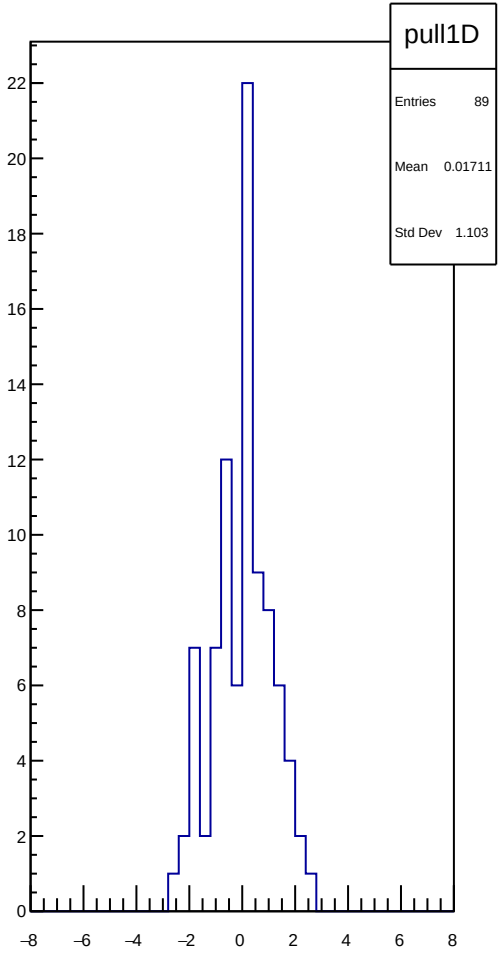

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 167.3 / 88
p0 0.02831 ± 0.01342
pull
Entries 89
Mean −278
Std Dev 0
pull1D
Entries 89
Mean −0.009568
Std Dev 1.371

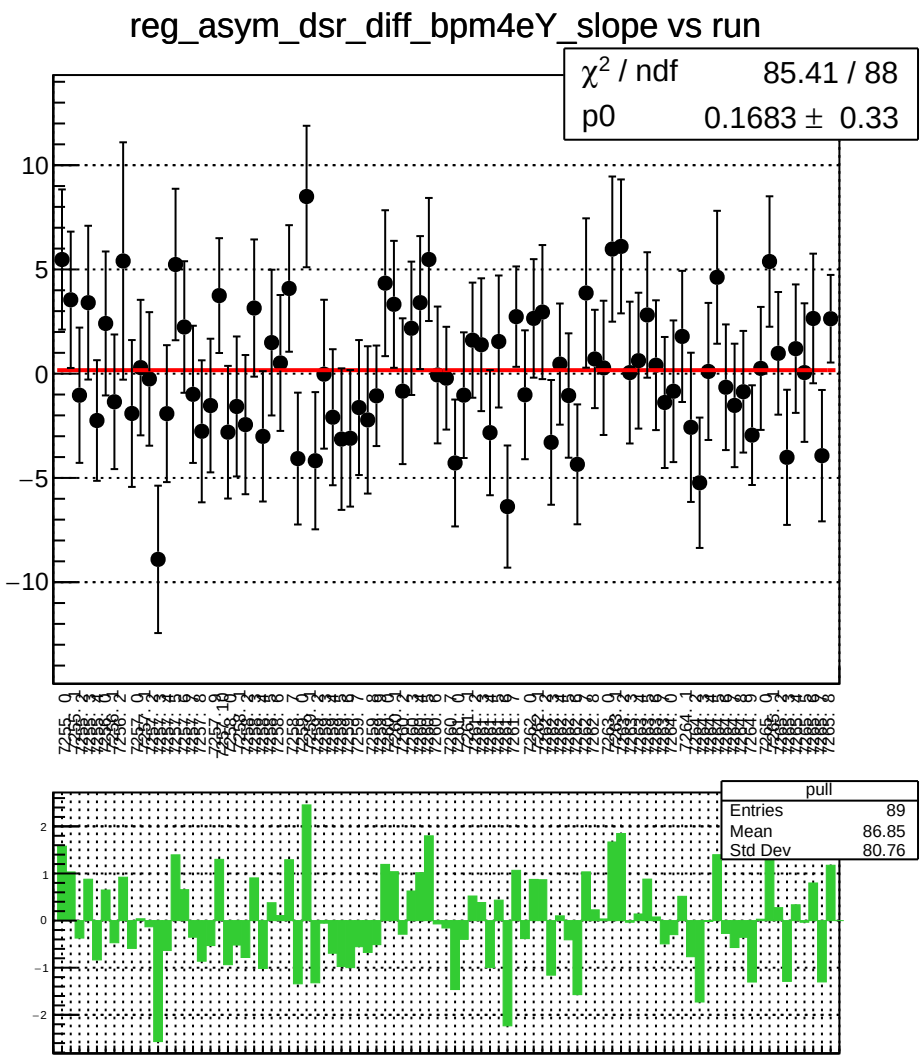

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 108.7 / 88
p0 −0.2828 ± 0.356
pull
Entries 89
Mean −263.8
Std Dev 0

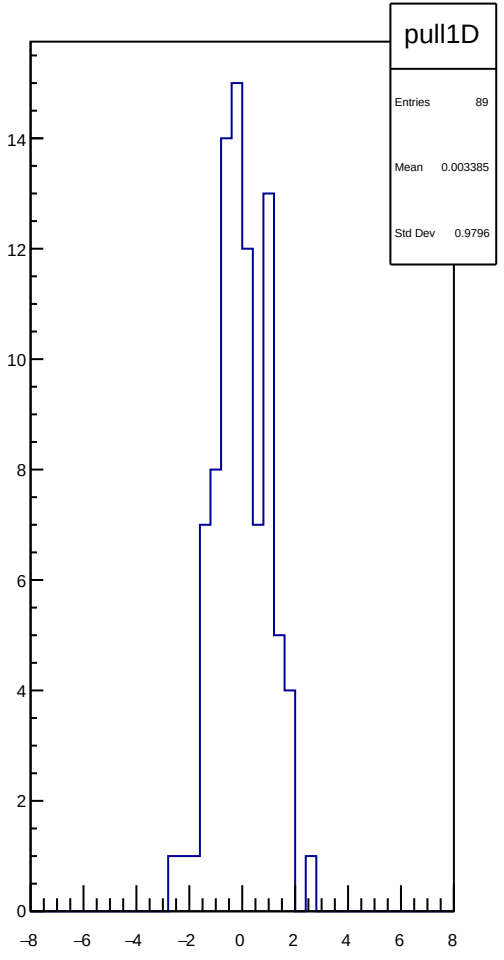

pull1D
Entries 89
Mean −0.01308
Std Dev 1.105

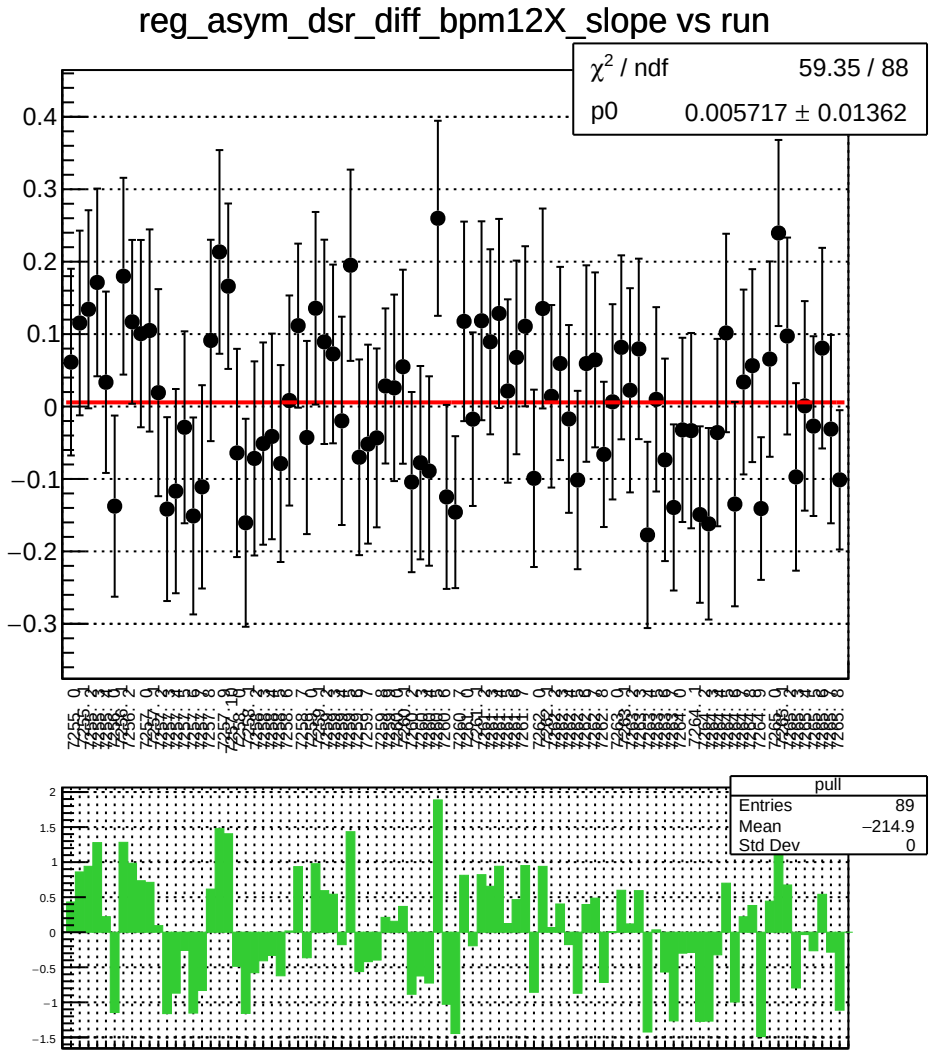

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 90.29 / 88
p0 −0.1164 ± 0.3145
pull
Entries 89
Mean 40.47
Std Dev 78.31
pull1D
Entries 89
Mean −0.00862
Std Dev 1.007

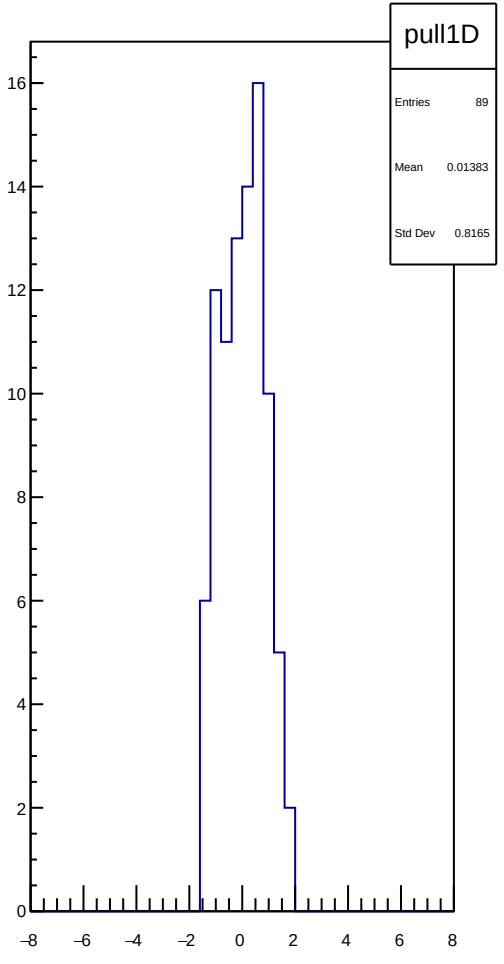

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 108.4 / 88
p0 0.1331 ± 0.3853
pull
Entries 89
Mean −212.8
Std Dev 0

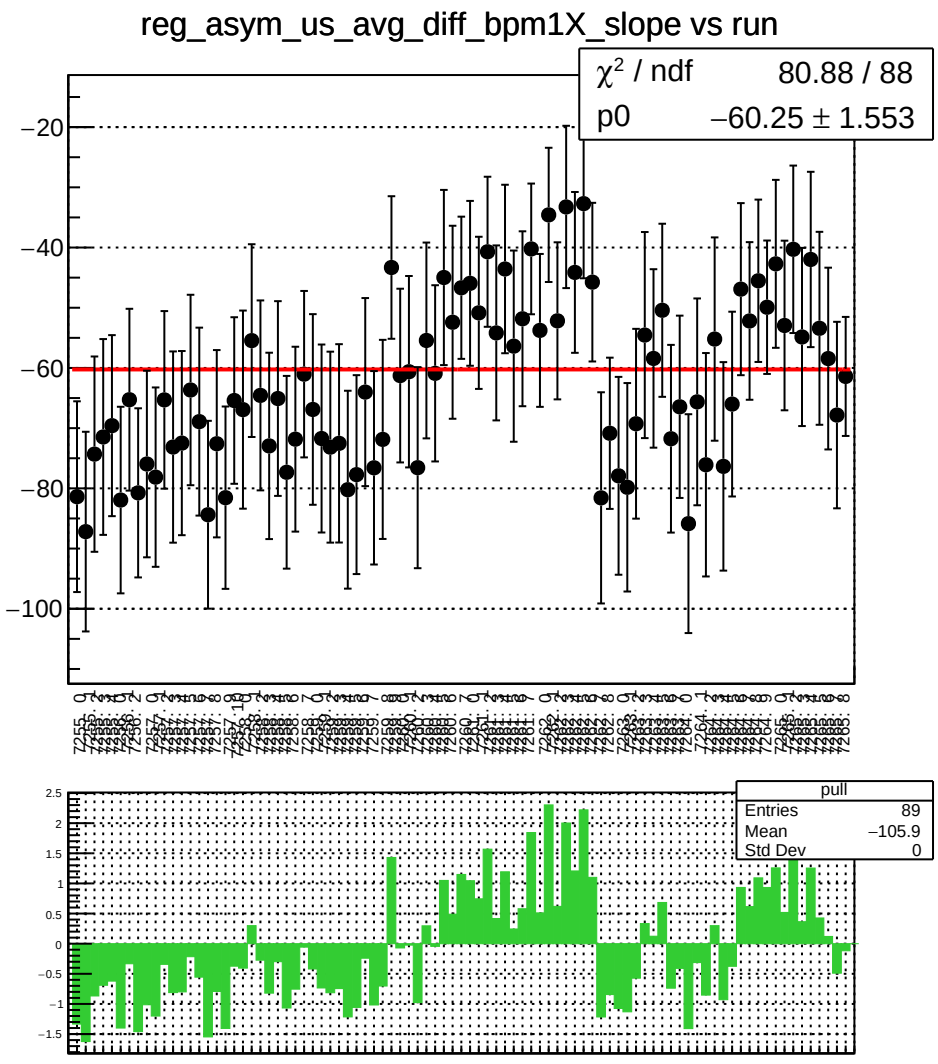

pull1D
Entries 89
Mean 0.01711
Std Dev 1.103

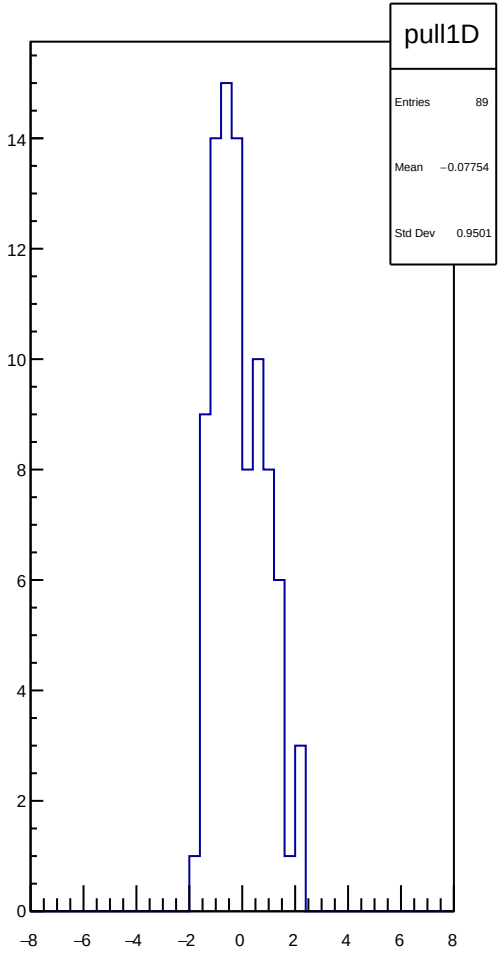

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 85.41 / 88
p0 0.1683 ± 0.33
pull
Entries 89
Mean 86.85
Std Dev 80.76

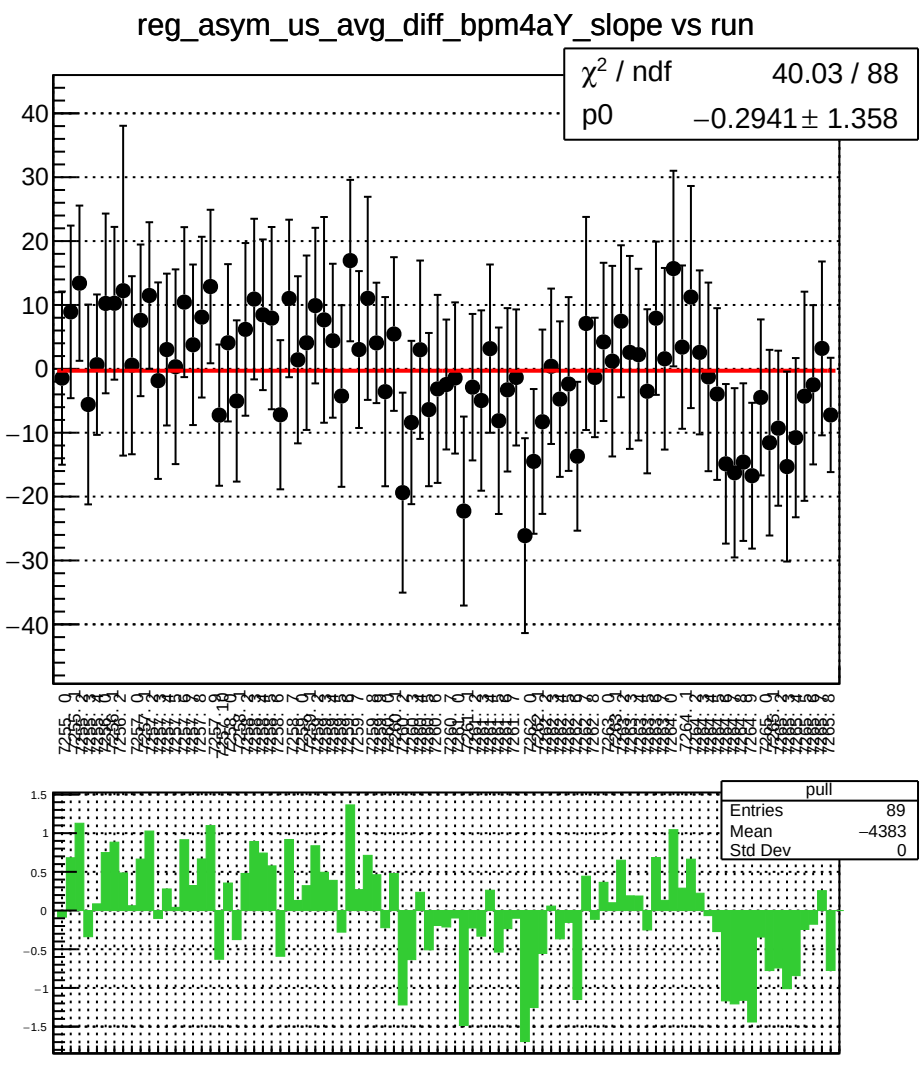

pull1D
Entries 89
Mean 0.003385
Std Dev 0.9796

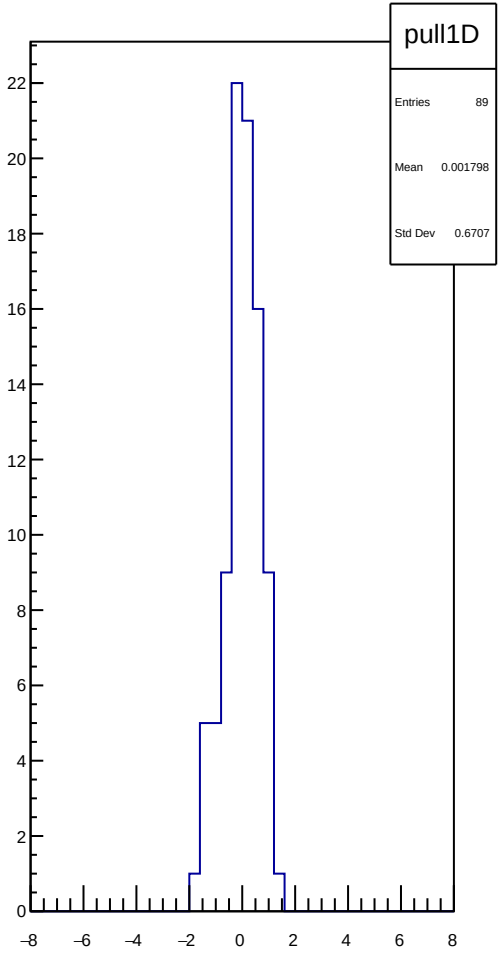

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 59.35 / 88
p0 0.005717 ± 0.01362
pull
Entries 89
Mean −214.9
Std Dev 0

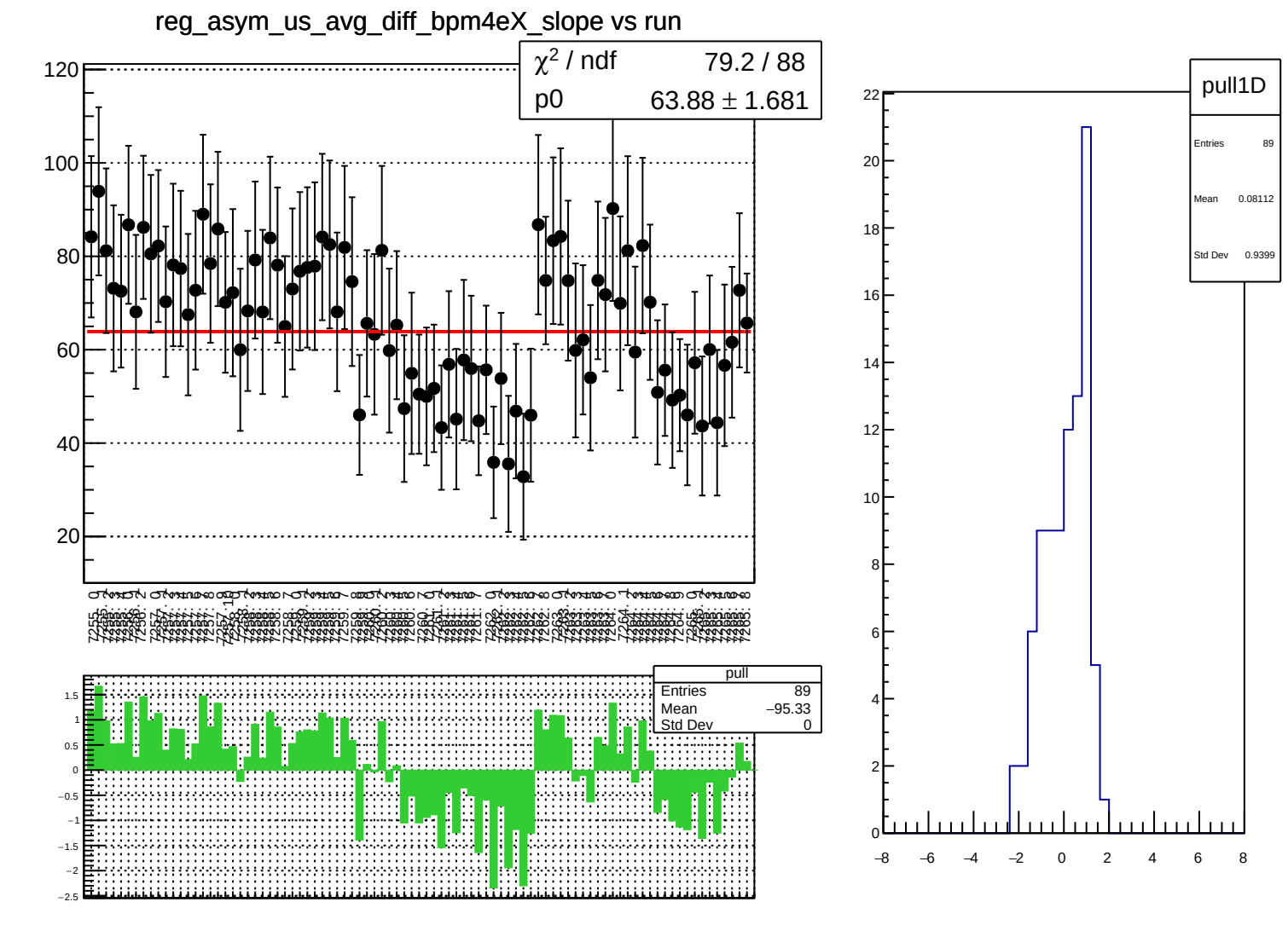

pull1D
Entries 89
Mean 0.01383
Std Dev 0.8165

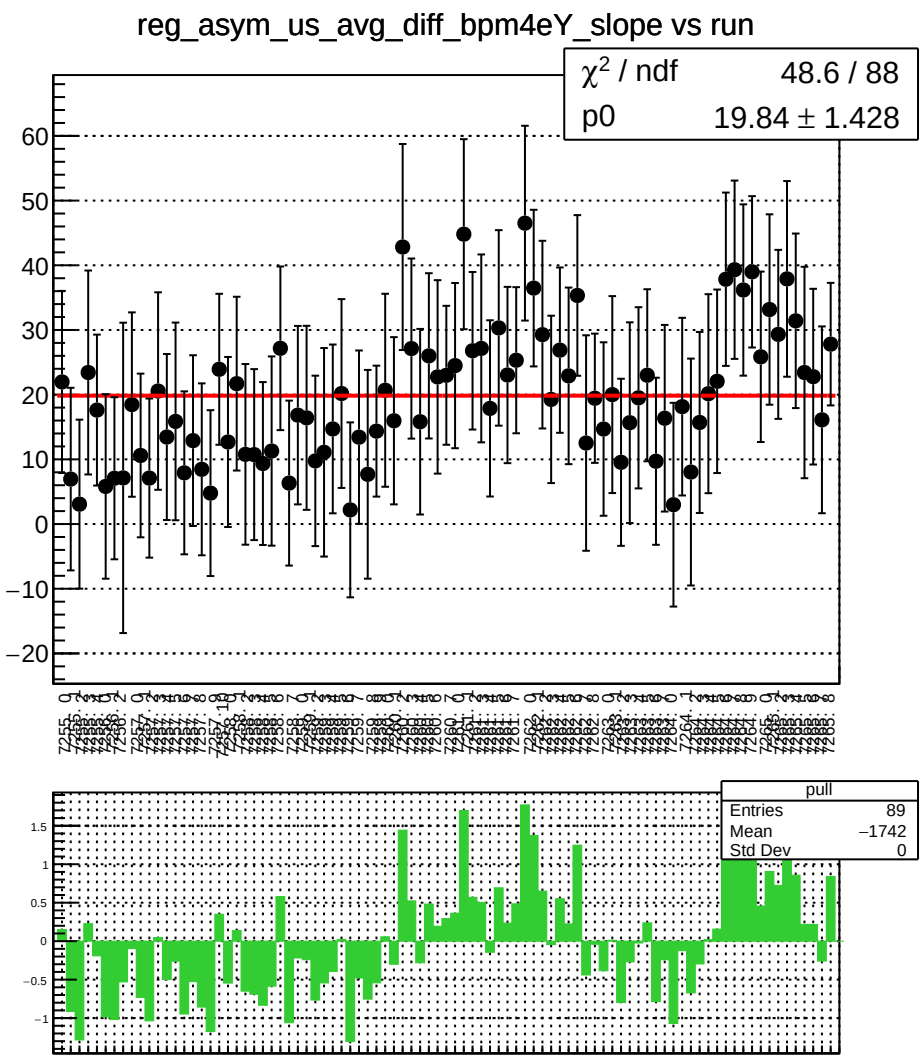

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 80.88 / 88
p0 −60.25 ± 1.553
pull
Entries 89
Mean −105.9
Std Dev 0

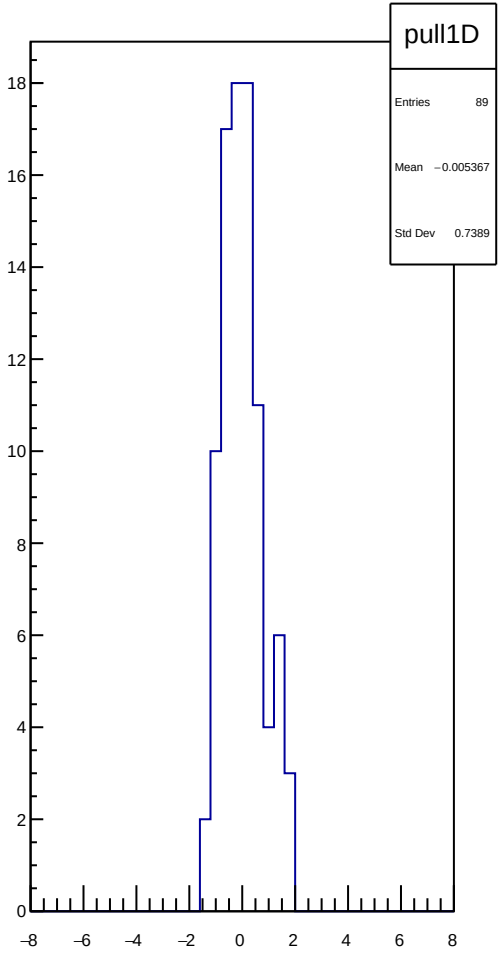

pull1D
Entries 89
Mean −0.07754
Std Dev 0.9501

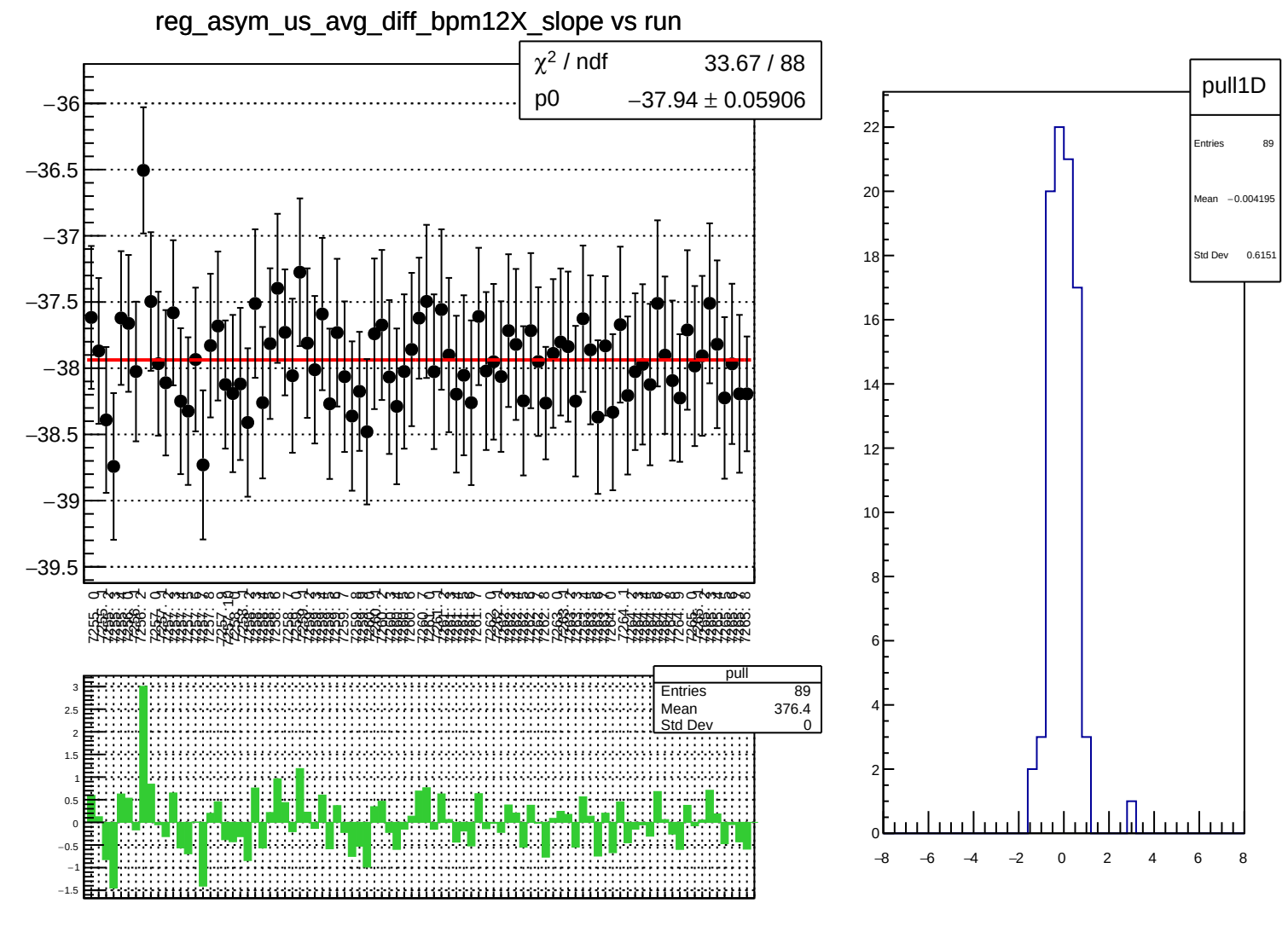

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.03 / 88
p0 −0.2941 ± 1.358
pull
Entries 89
Mean −4383
Std Dev 0

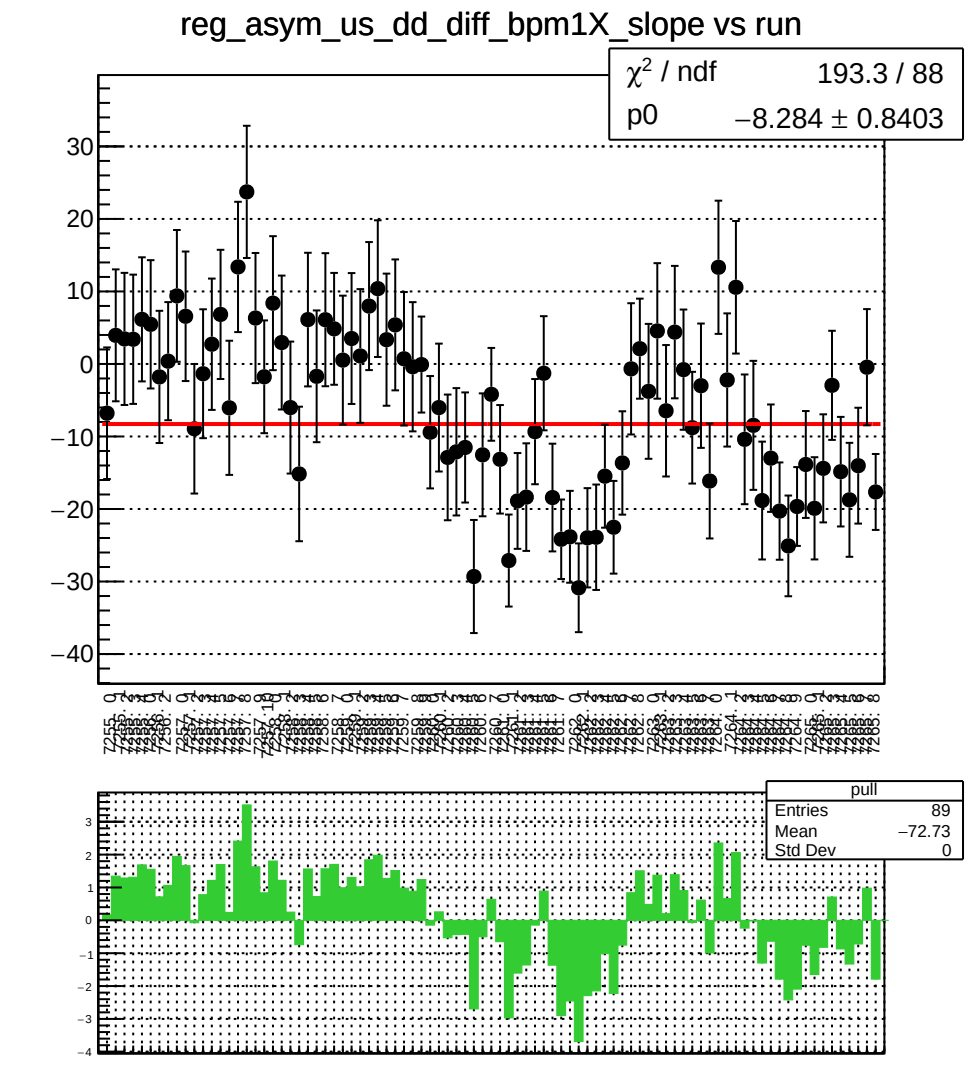

pull1D
Entries 89
Mean 0.001798
Std Dev 0.6707

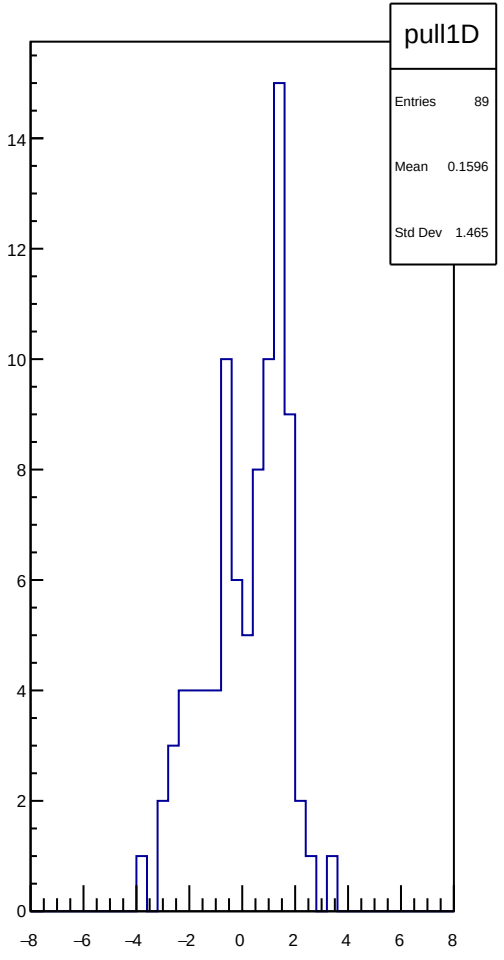

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 79.2 / 88
p0 63.88 ± 1.681
pull
Entries 89
Mean −95.33
Std Dev 0
pull1D
Entries 89
Mean 0.08112
Std Dev 0.9399

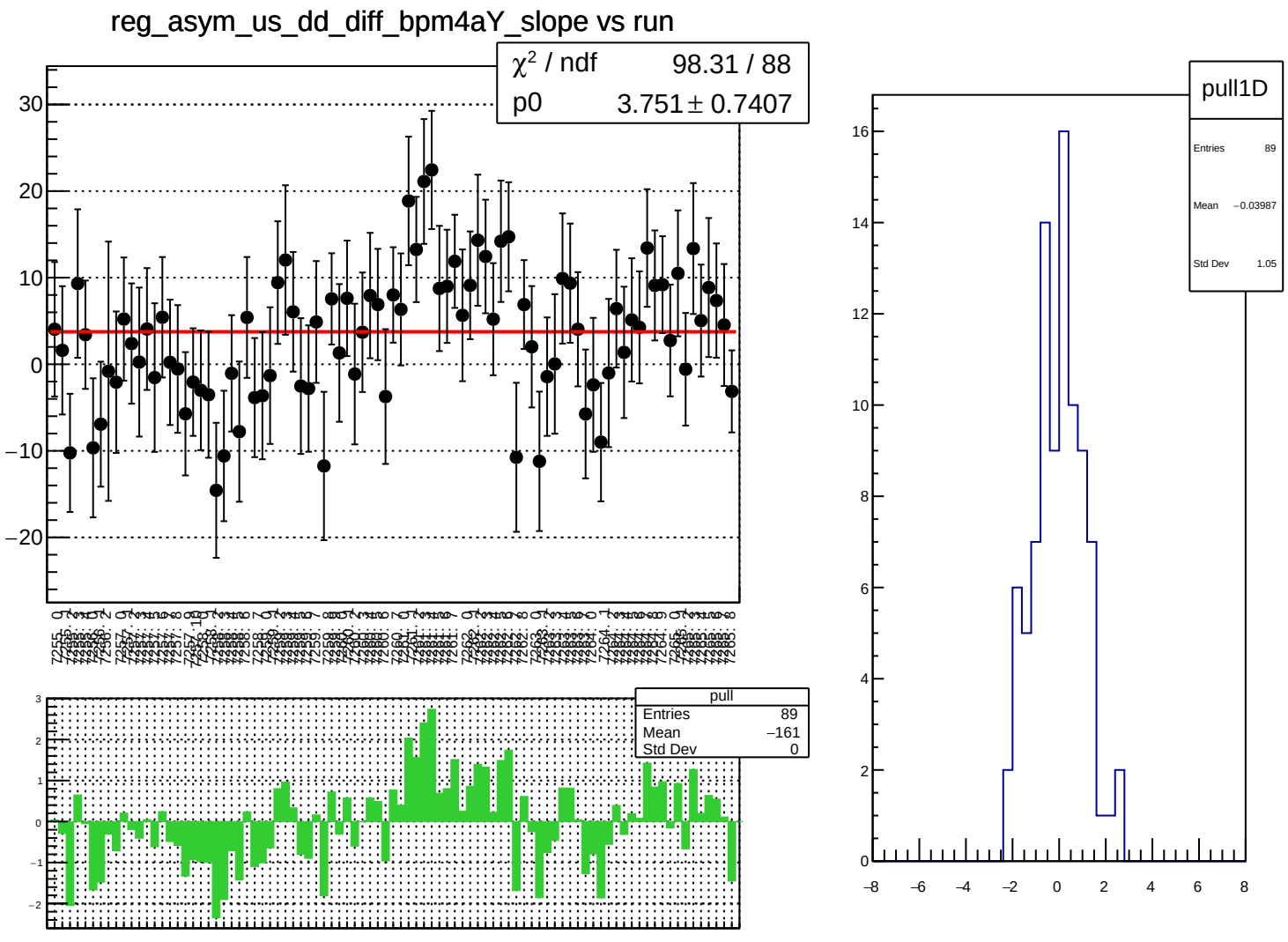

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 48.6 / 88
p0 19.84 ± 1.428
pull
Entries 89
Mean −1742
Std Dev 0

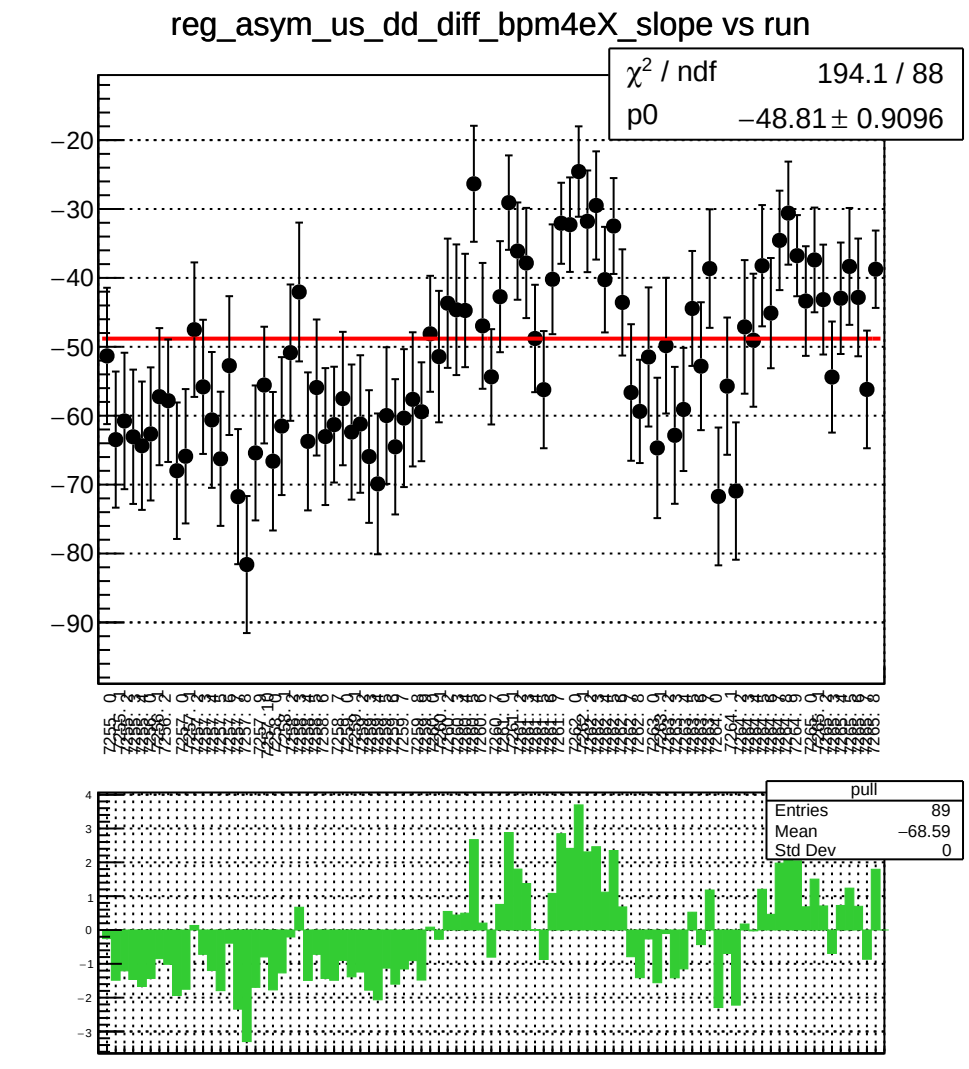

pull1D
Entries 89
Mean −0.005367
Std Dev 0.7389

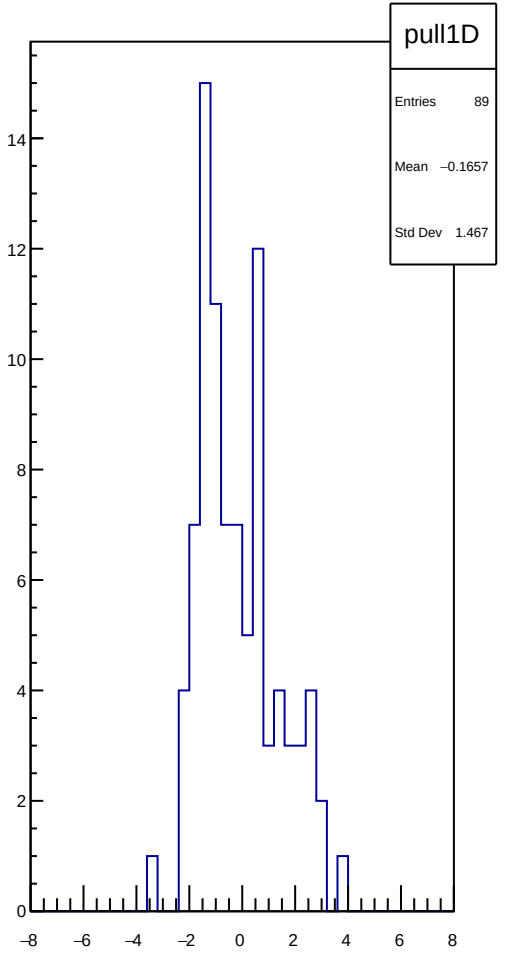

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 33.67 / 88
p0 −37.94 ± 0.05906
pull
Entries 89
Mean 376.4
Std Dev 0
pull1D
Entries 89
Mean −0.004195
Std Dev 0.6151

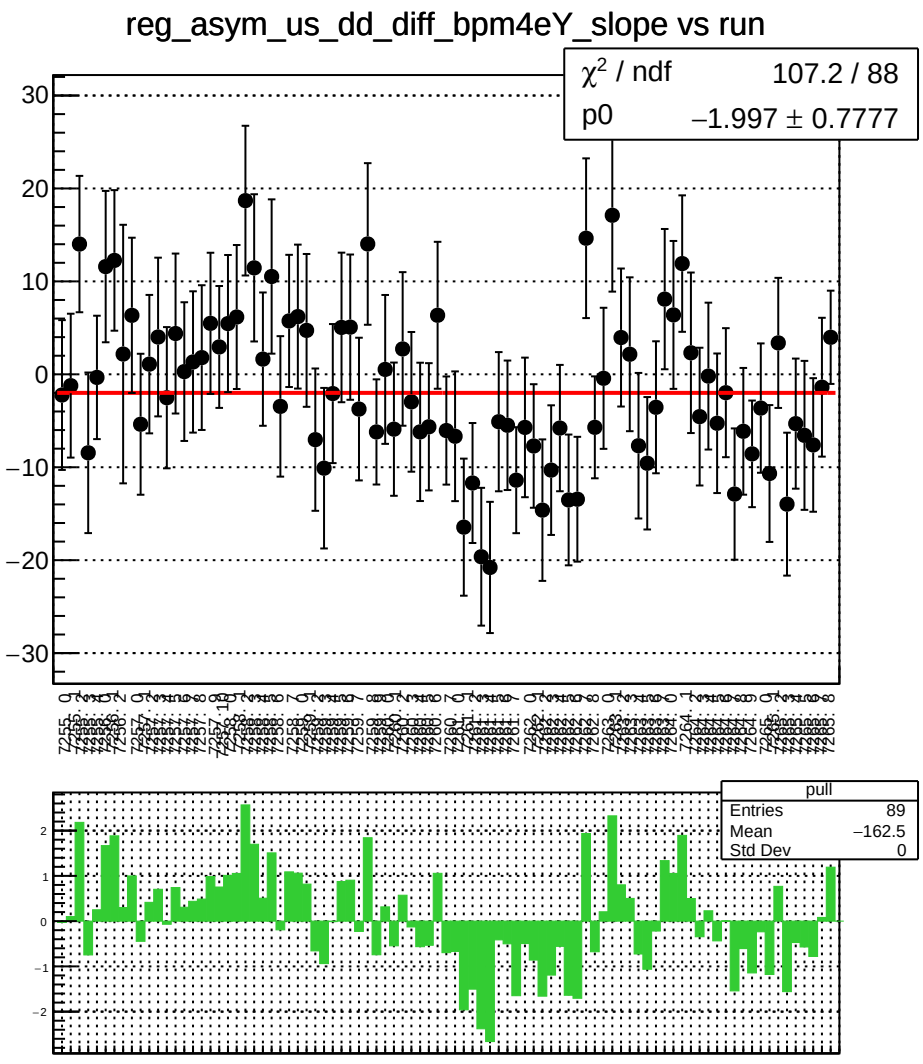

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 193.3 / 88
p0 −8.284 ± 0.8403
pull
Entries 89
Mean −72.73
Std Dev 0

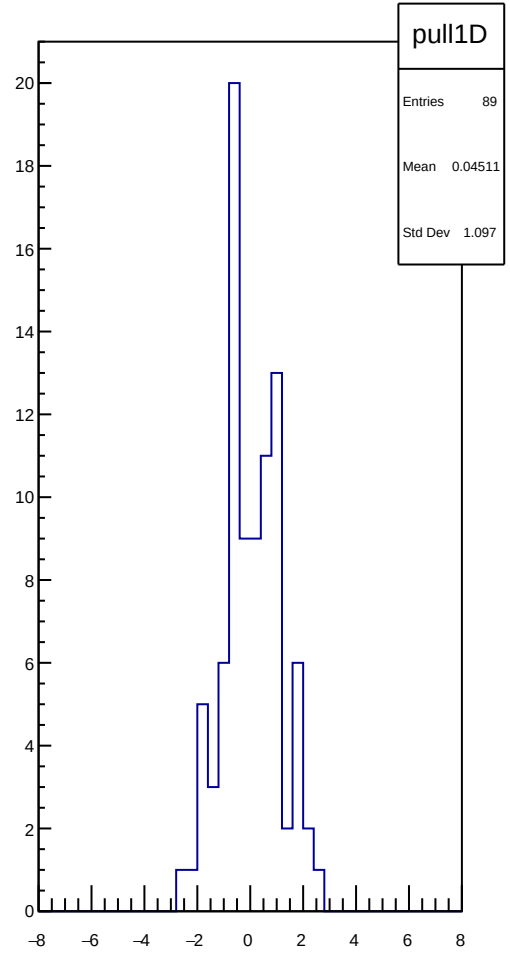

pull1D
Entries 89
Mean 0.1596
Std Dev 1.465

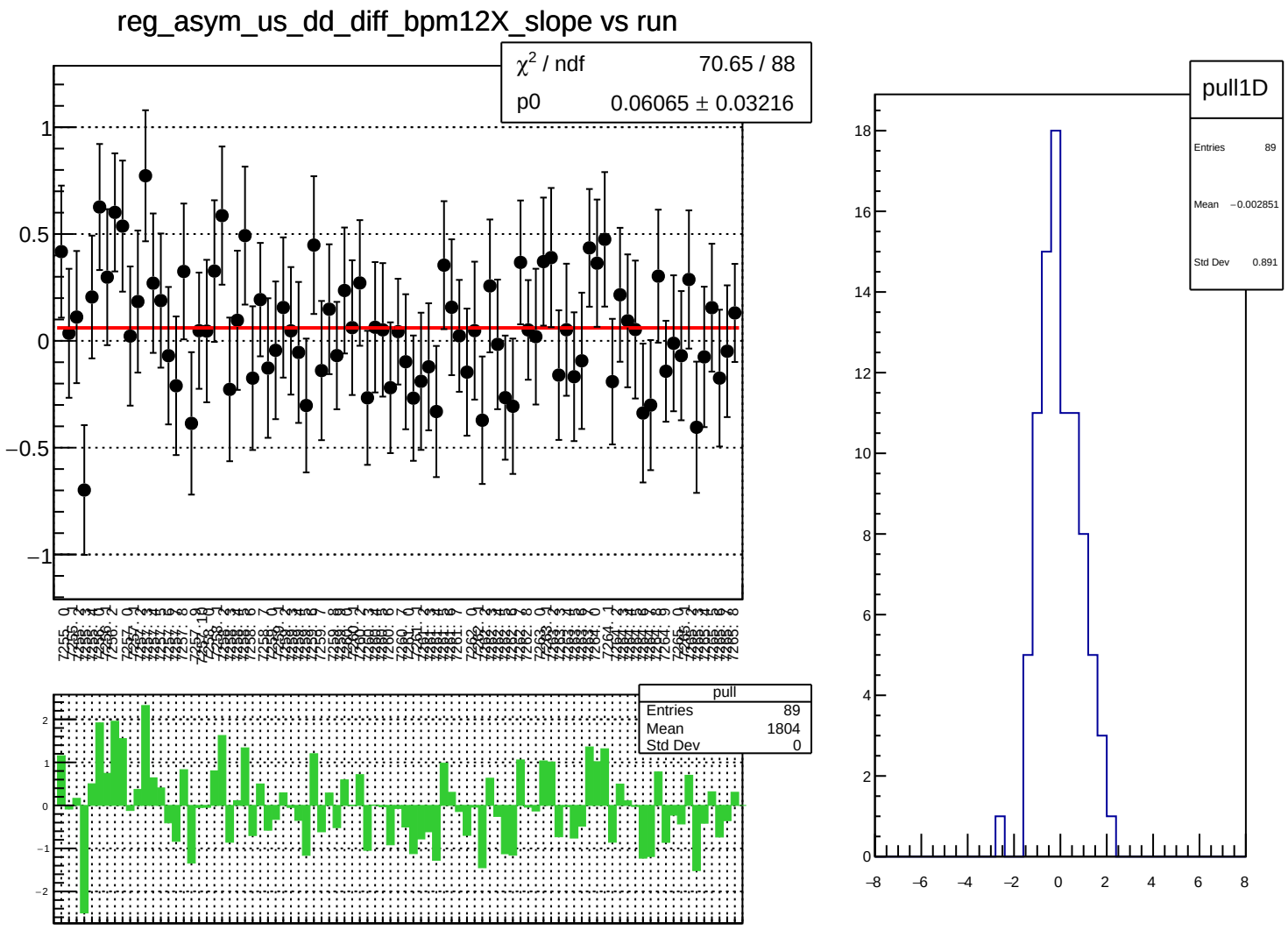

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 98.31 / 88
p0 3.751 ± 0.7407
pull
Entries 89
Mean −161
Std Dev 0
pull1D
Entries 89
Mean −0.03987
Std Dev 1.05

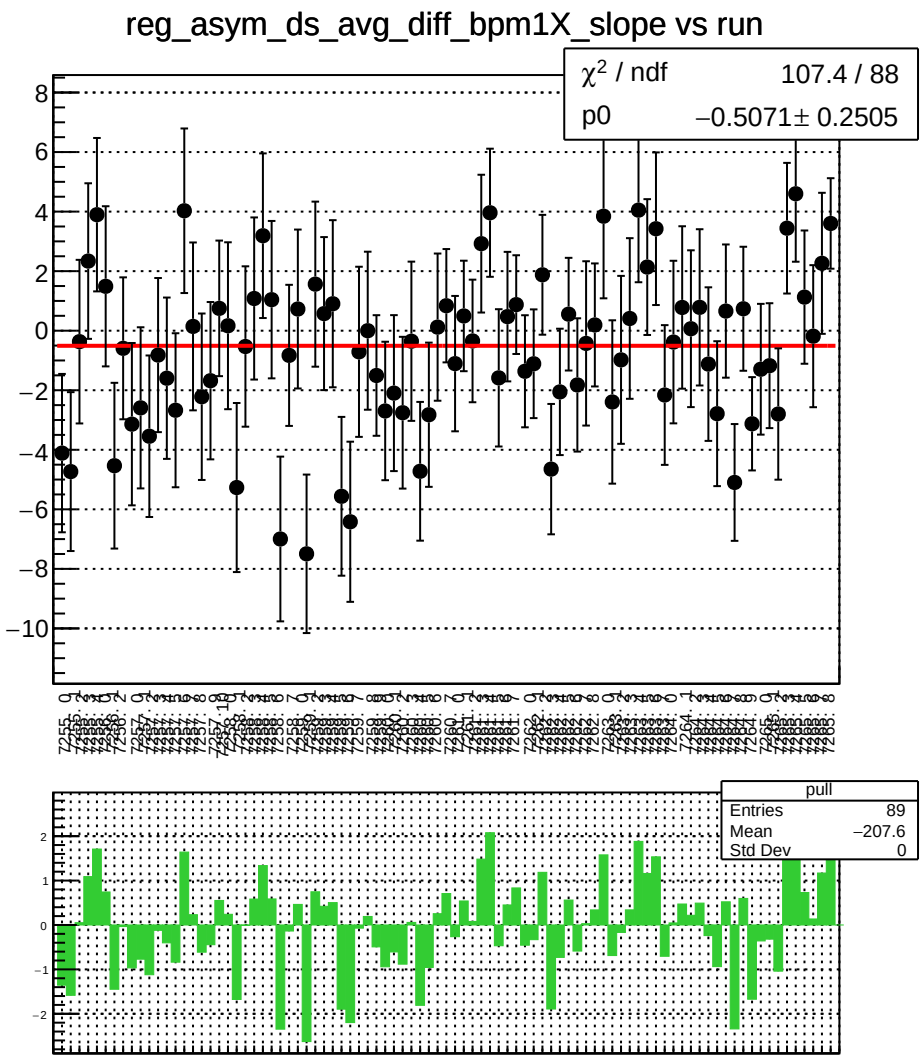

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 194.1 / 88
p0 −48.81 ± 0.9096
pull
Entries 89
Mean −68.59
Std Dev 0

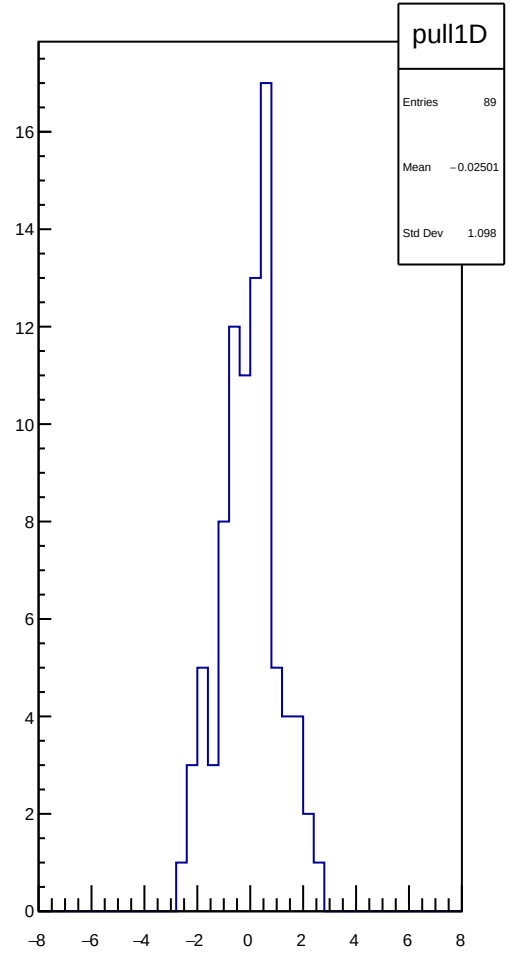

pull1D
Entries 89
Mean −0.1657
Std Dev 1.467

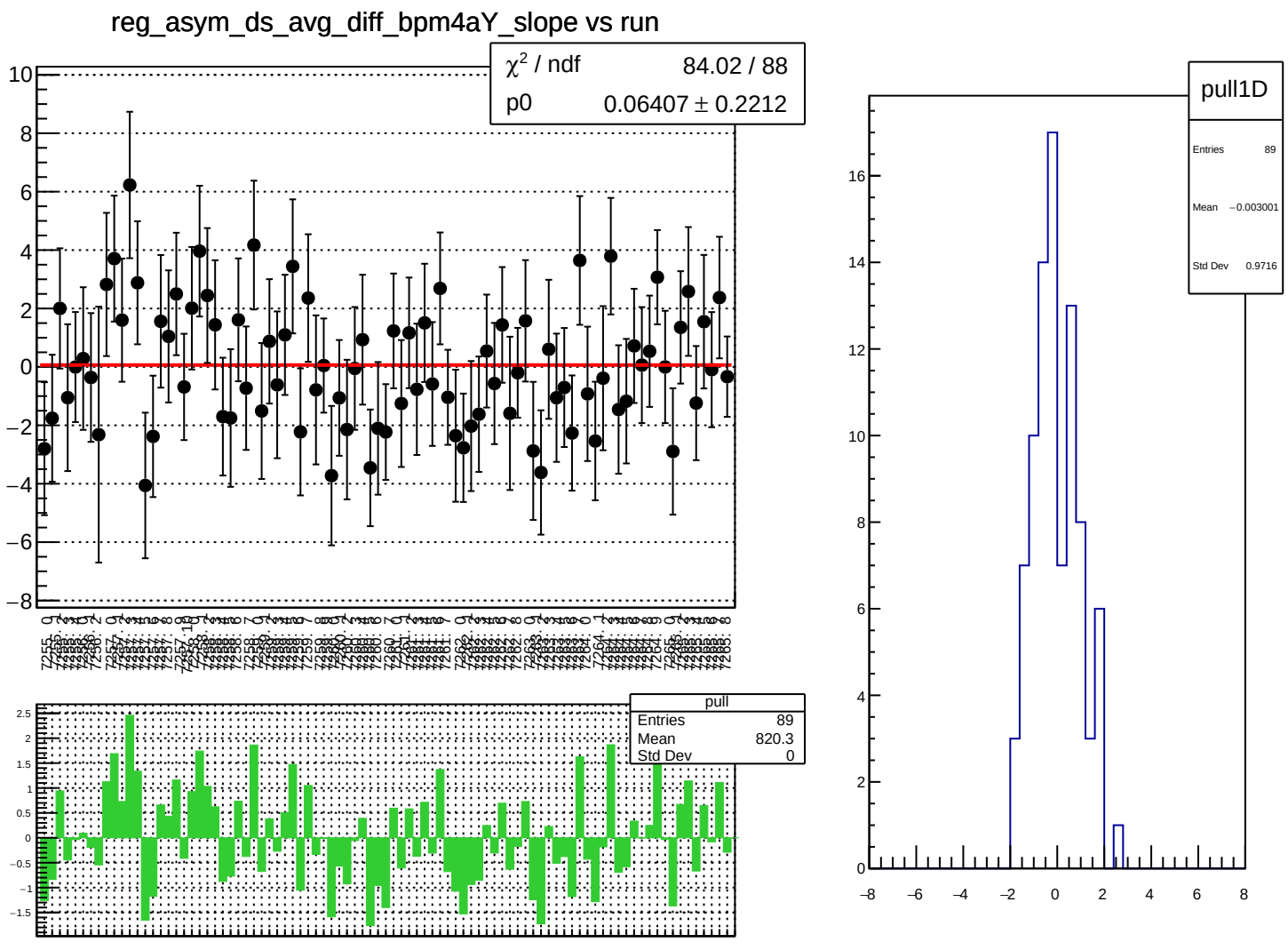

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 107.2 / 88
p0 −1.997 ± 0.7777
pull
Entries 89
Mean −162.5
Std Dev 0

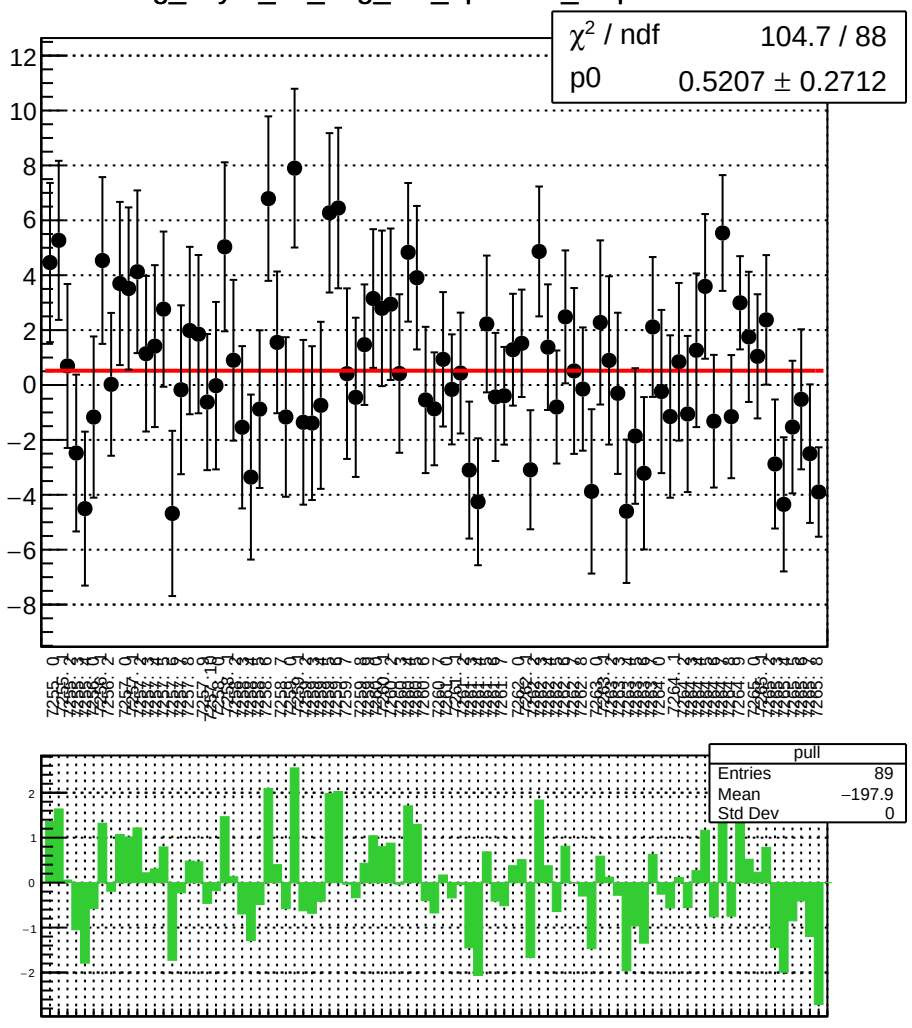

pull1D
Entries 89
Mean 0.04511
Std Dev 1.097

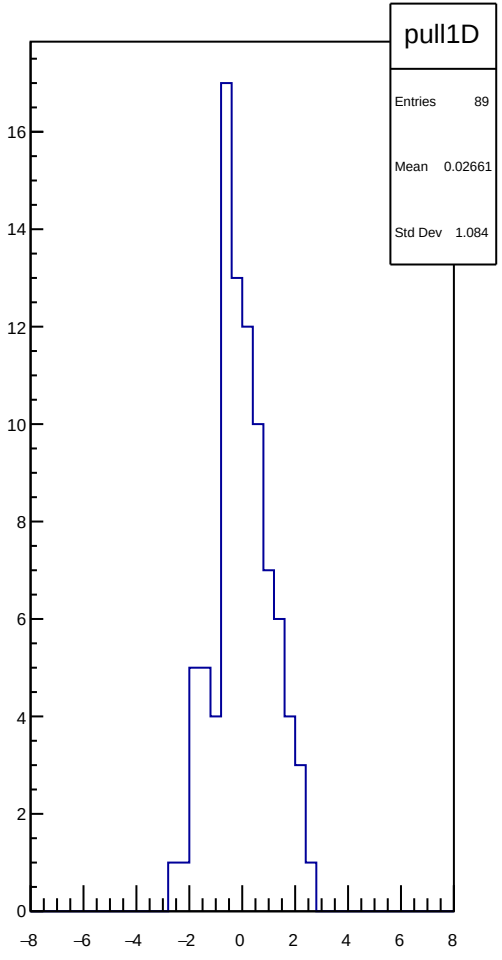

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 70.65 / 88
p0 0.06065 ± 0.03216
pull
Entries 89
Mean 1804
Std Dev 0
pull1D
Entries 89
Mean −0.002851
Std Dev 0.891

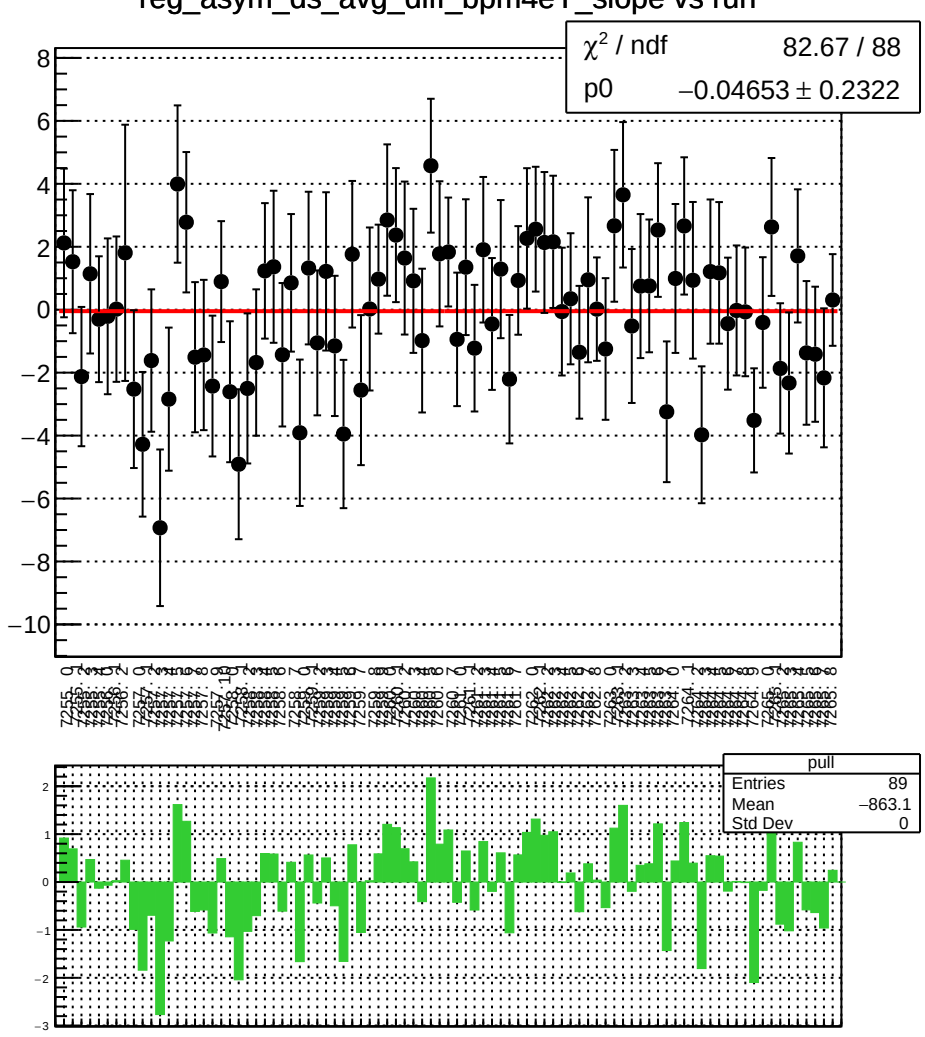

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 107.4 / 88
p0 −0.5071± 0.2505
pull
Entries 89
Mean −207.6
Std Dev 0

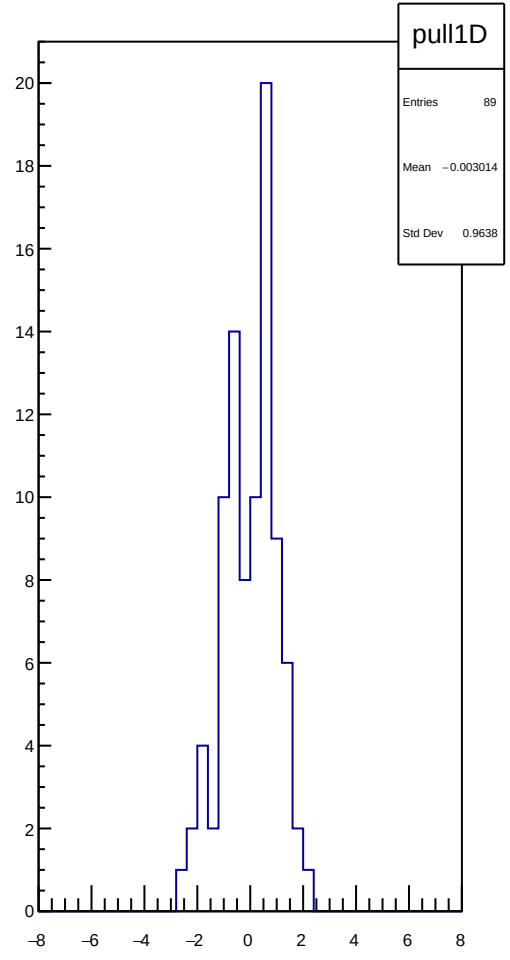

pull1D
Entries 89
Mean −0.02501
Std Dev 1.098

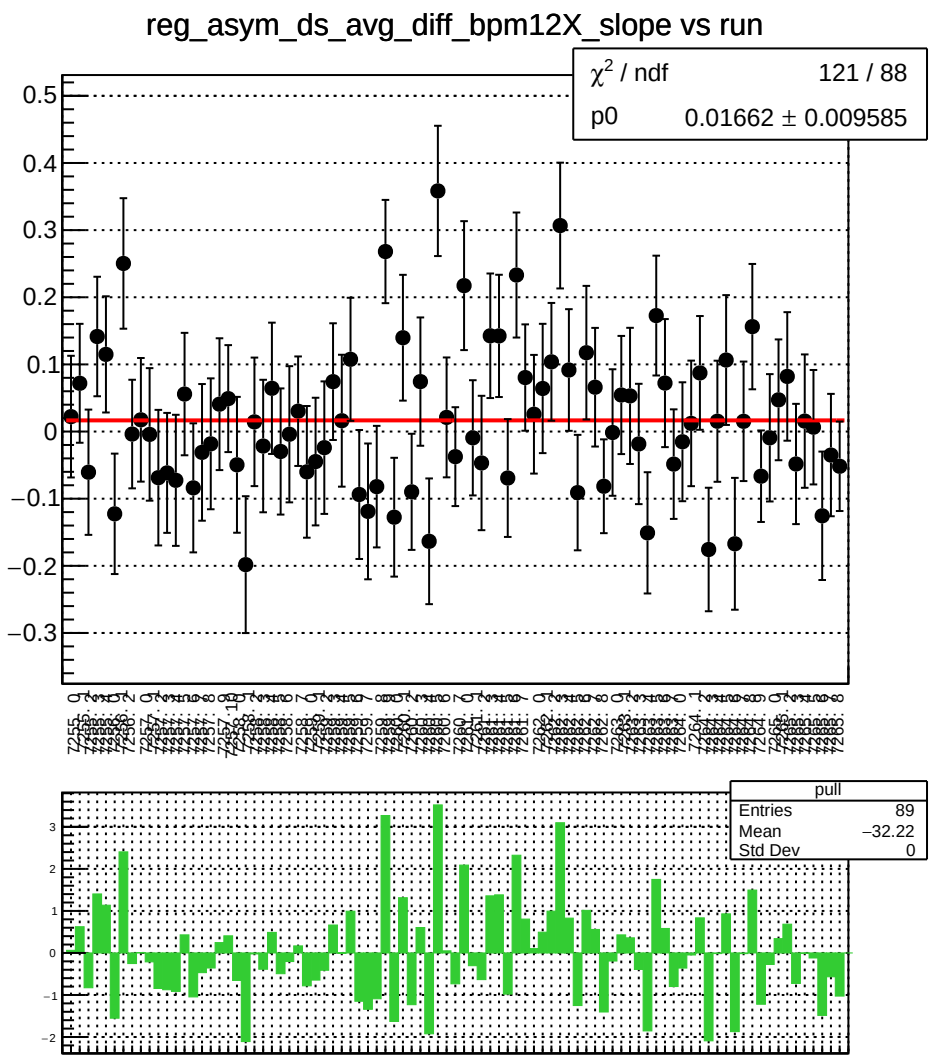

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 84.02 / 88
p0 0.06407 ± 0.2212
pull
Entries 89
Mean 820.3
Std Dev 0
pull1D
Entries 89
Mean −0.003001
Std Dev 0.9716

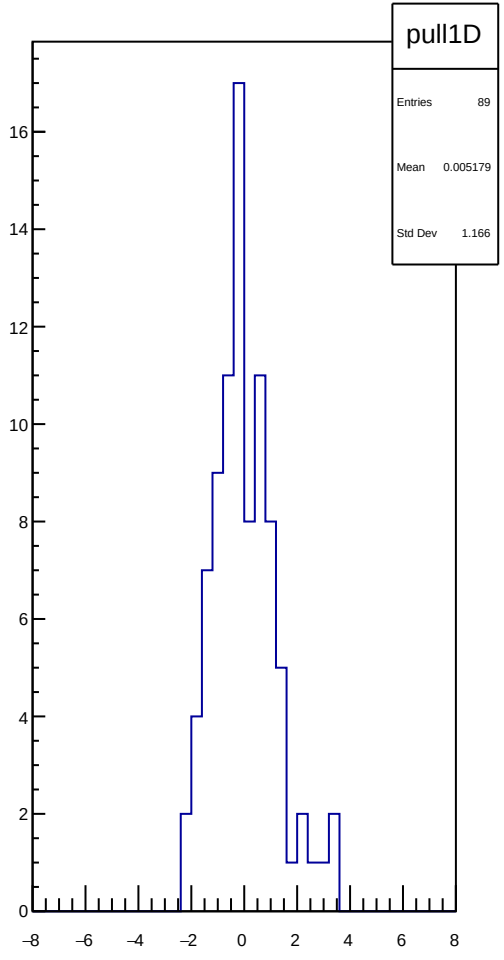

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 104.7 / 88
p0 0.5207 ± 0.2712
pull
Entries 89
Mean −197.9
Std Dev 0

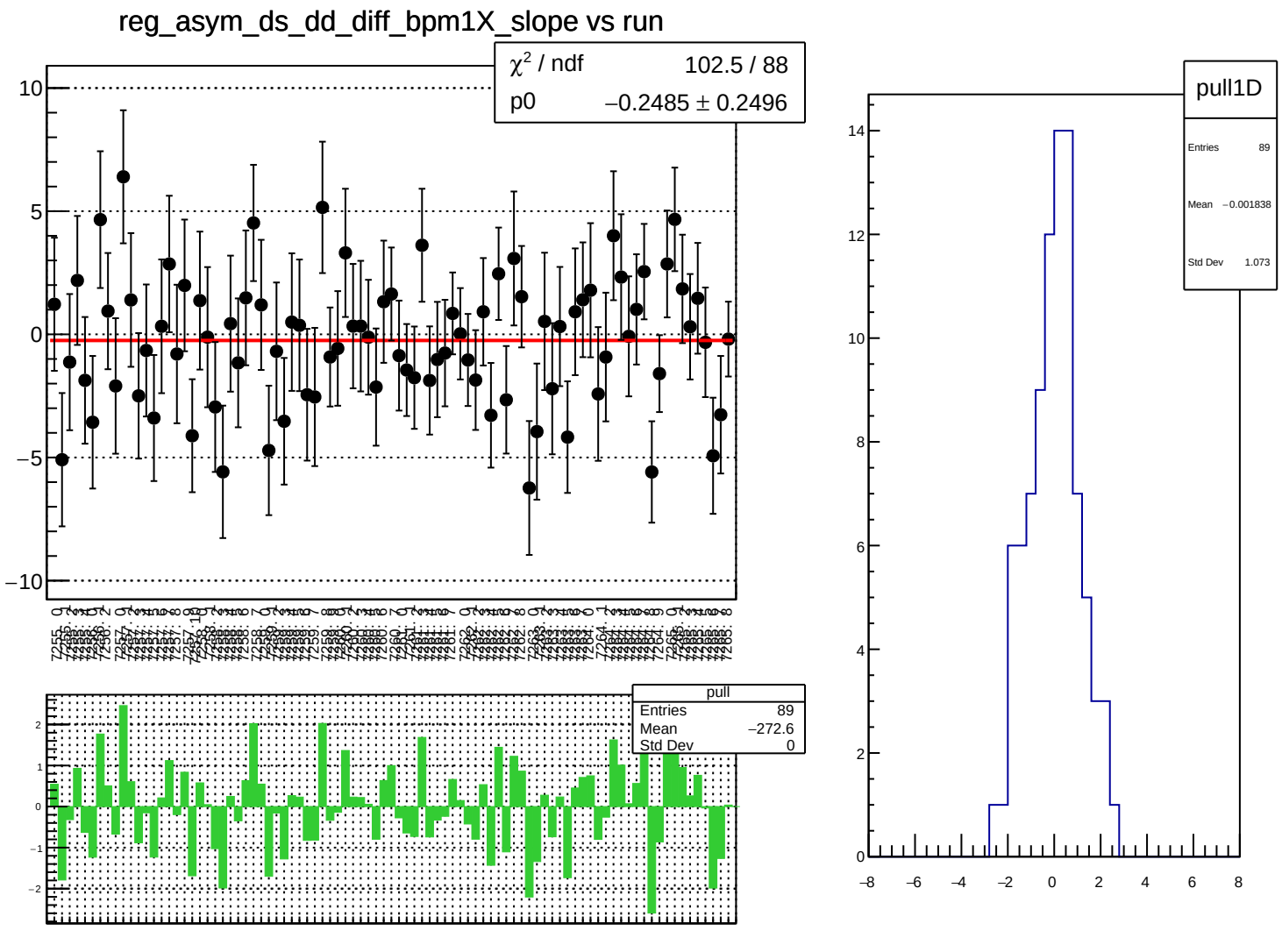

pull1D
Entries 89
Mean 0.02661
Std Dev 1.084

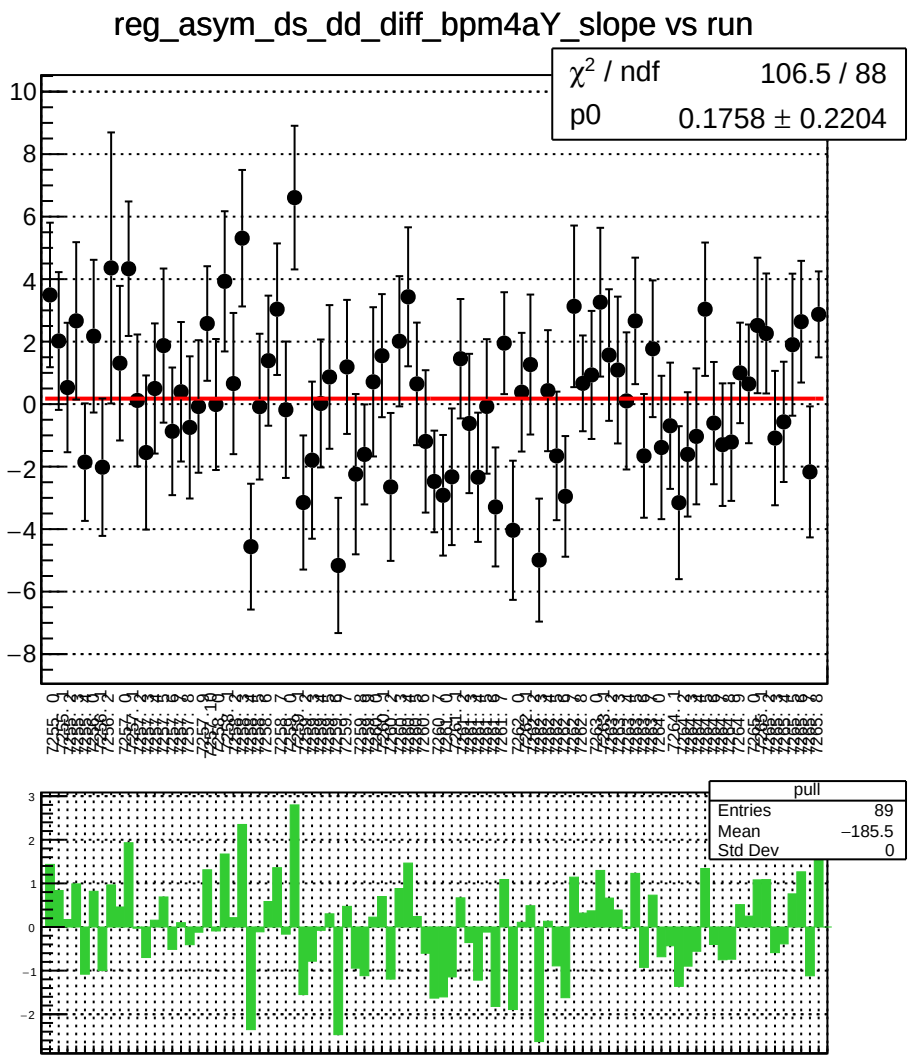

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 82.67 / 88
p0 −0.04653 ± 0.2322
pull
Entries 89
Mean −863.1
Std Dev 0

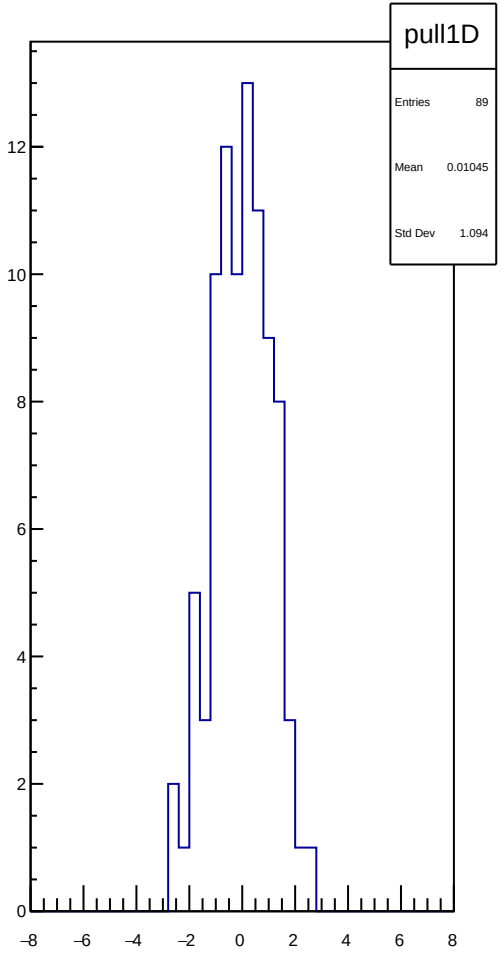

pull1D
Entries 89
Mean −0.003014
Std Dev 0.9638

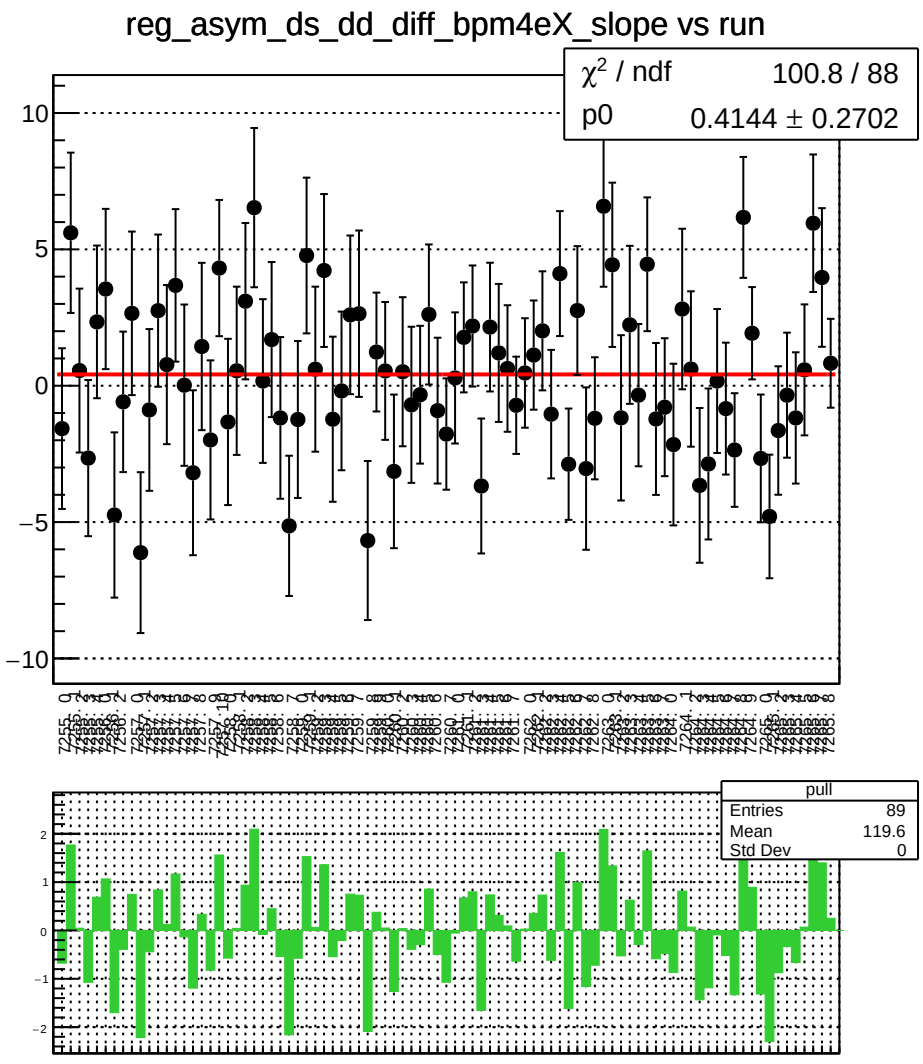

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 121 / 88
p0 0.01662 ± 0.009585
pull
Entries 89
Mean −32.22
Std Dev 0

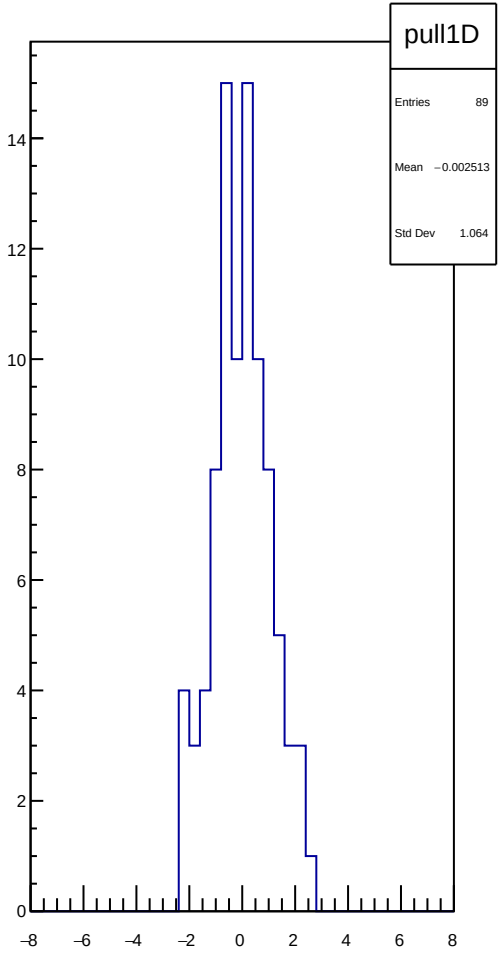

pull1D
Entries 89
Mean 0.005179
Std Dev 1.166

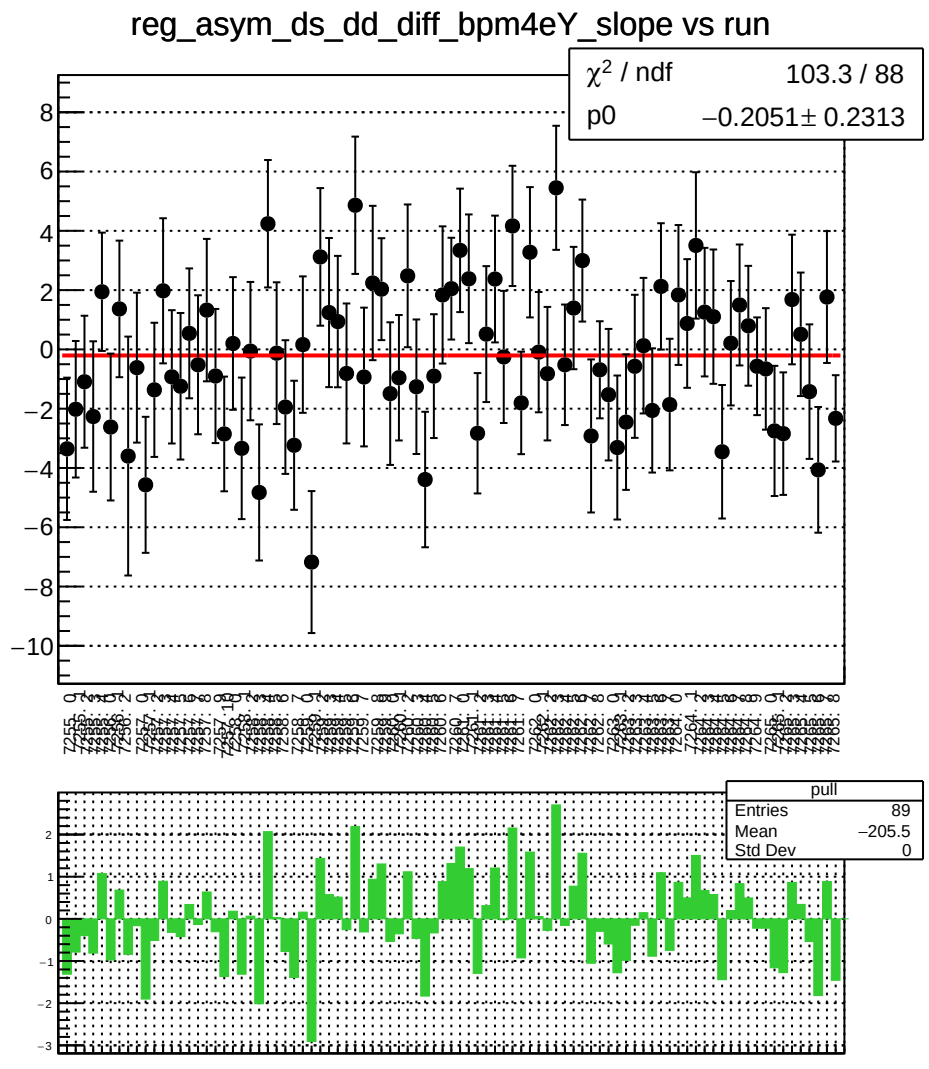

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 102.5 / 88
p0 −0.2485 ± 0.2496
pull
Entries 89
Mean −272.6
Std Dev 0
pull1D
Entries 89
Mean −0.001838
Std Dev 1.073

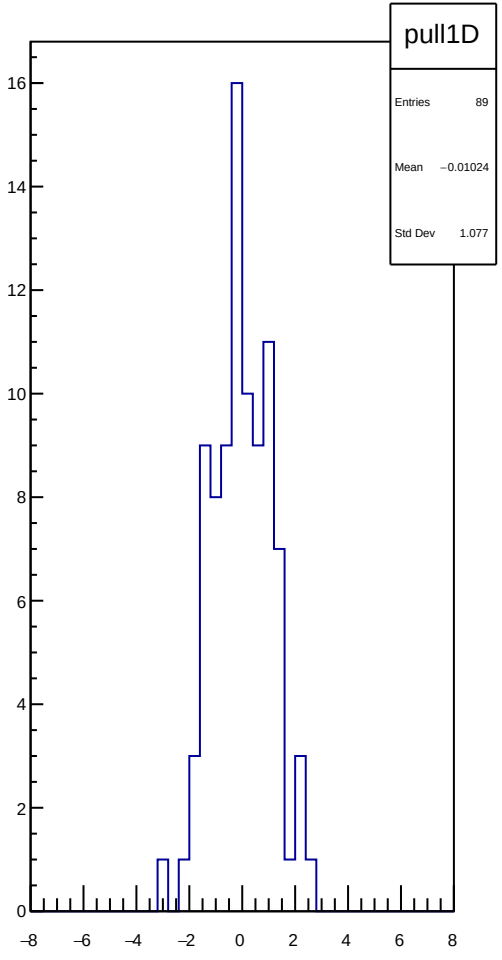

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 106.5 / 88
p0 0.1758 ± 0.2204
pull
Entries 89
Mean −185.5
Std Dev 0

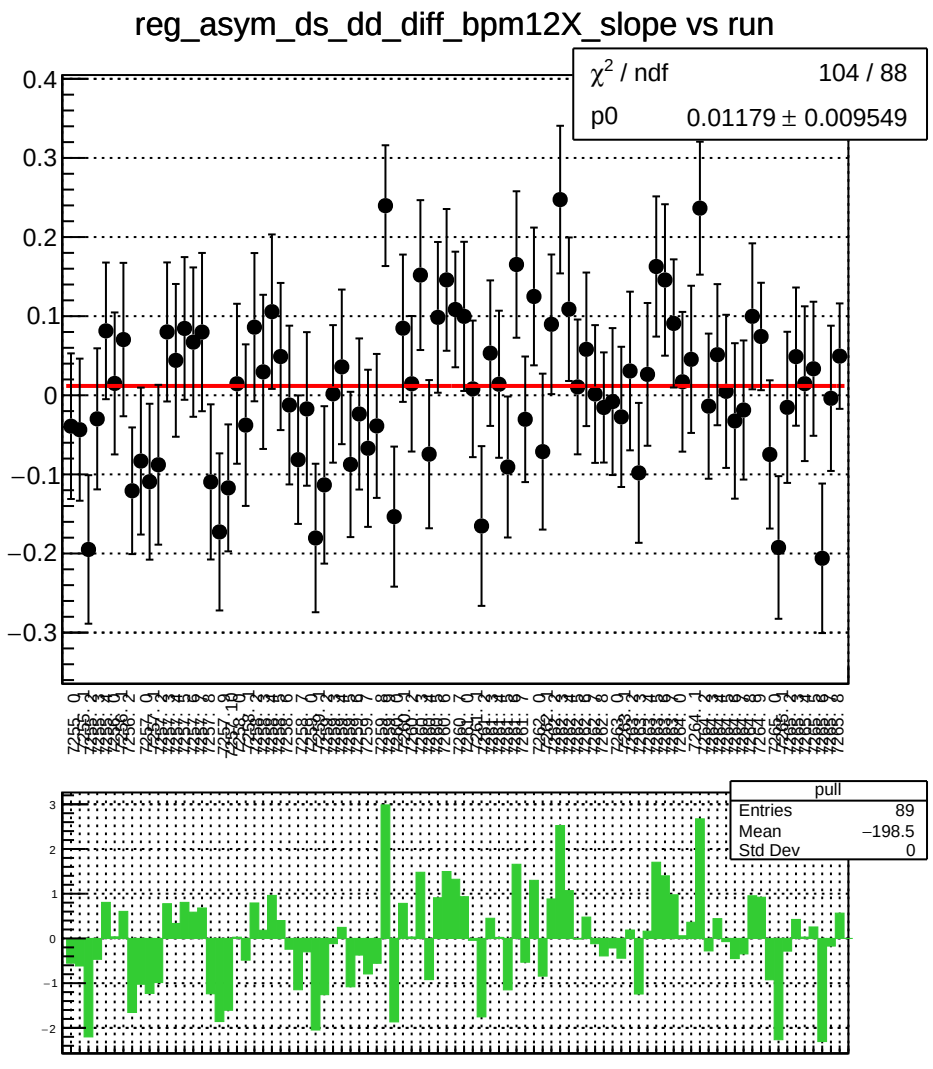

pull1D
Entries 89
Mean 0.01045
Std Dev 1.094

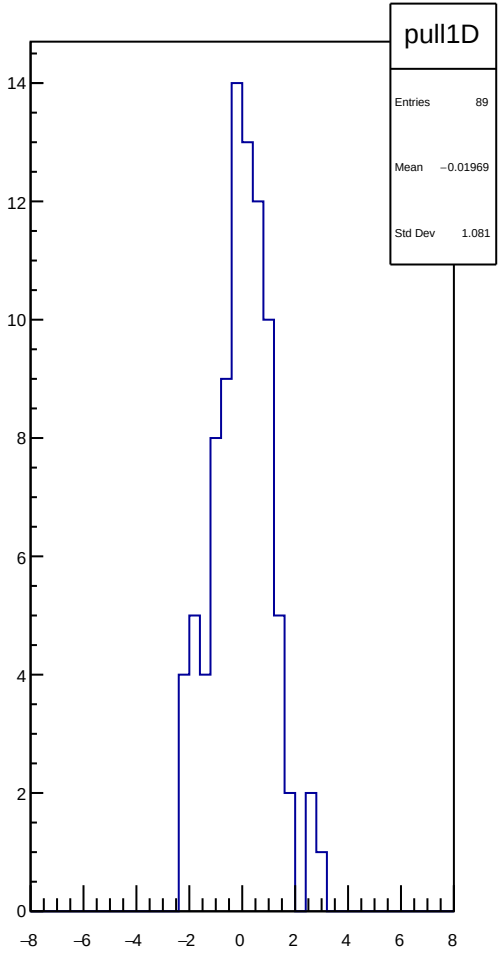

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 100.8 / 88
p0 0.4144 ± 0.2702
pull
Entries 89
Mean 119.6
Std Dev 0

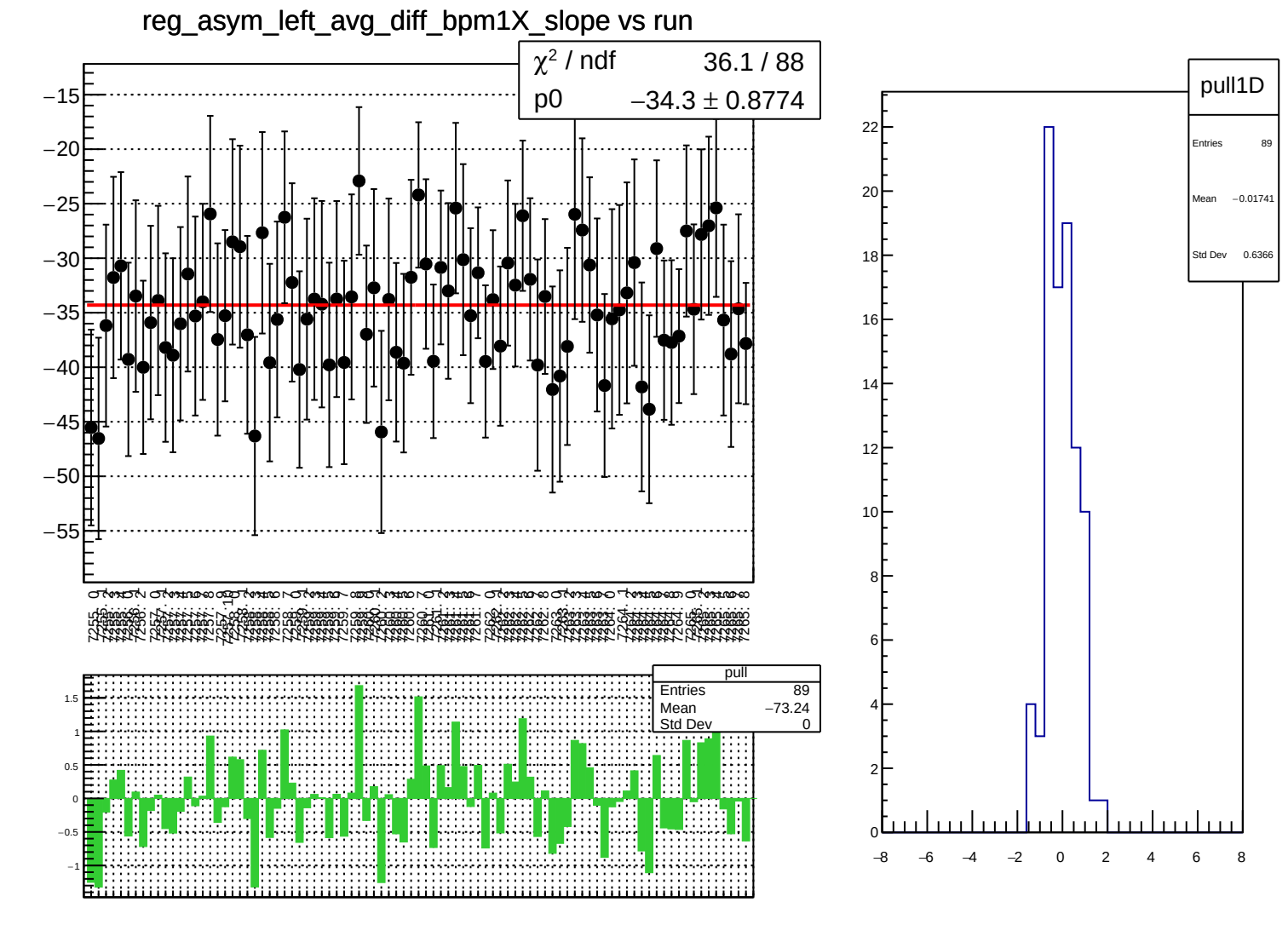

pull1D
Entries 89
Mean −0.002513
Std Dev 1.064

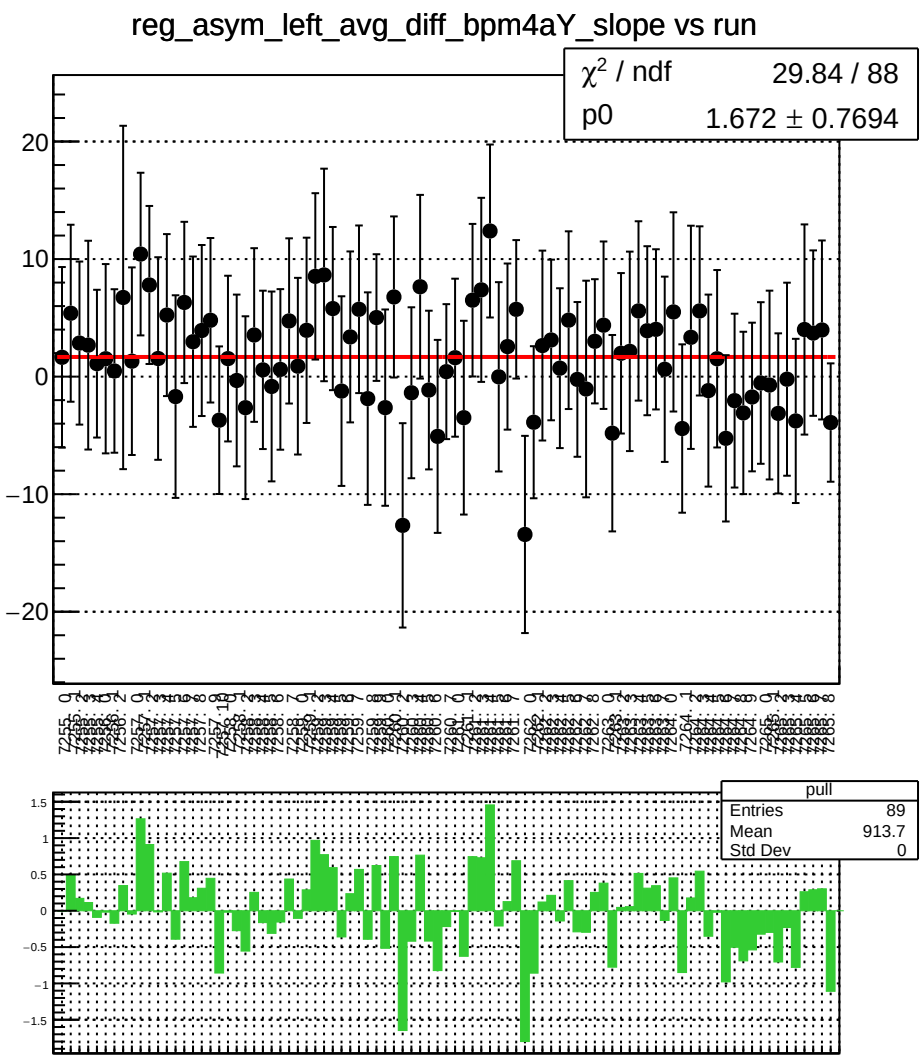

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 103.3 / 88
p0 −0.2051± 0.2313
pull
Entries 89
Mean −205.5
Std Dev 0

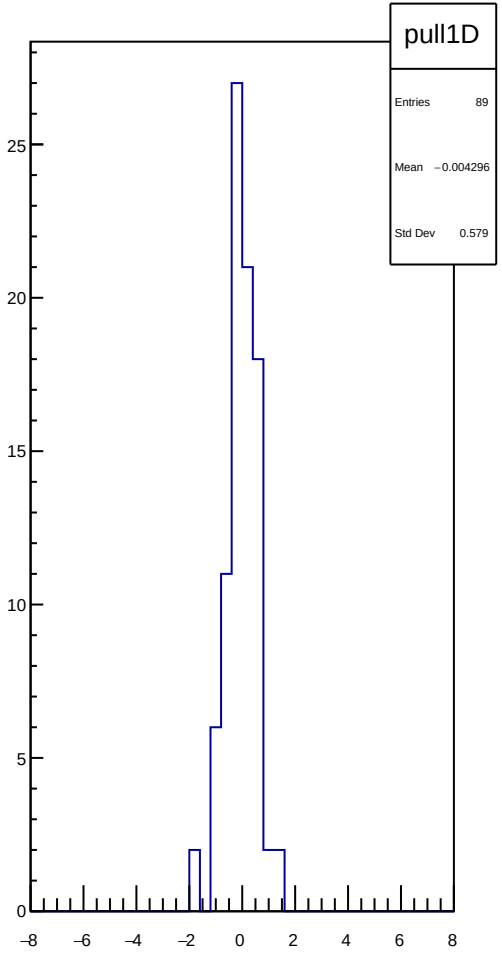

pull1D
Entries 89
Mean −0.01024
Std Dev 1.077

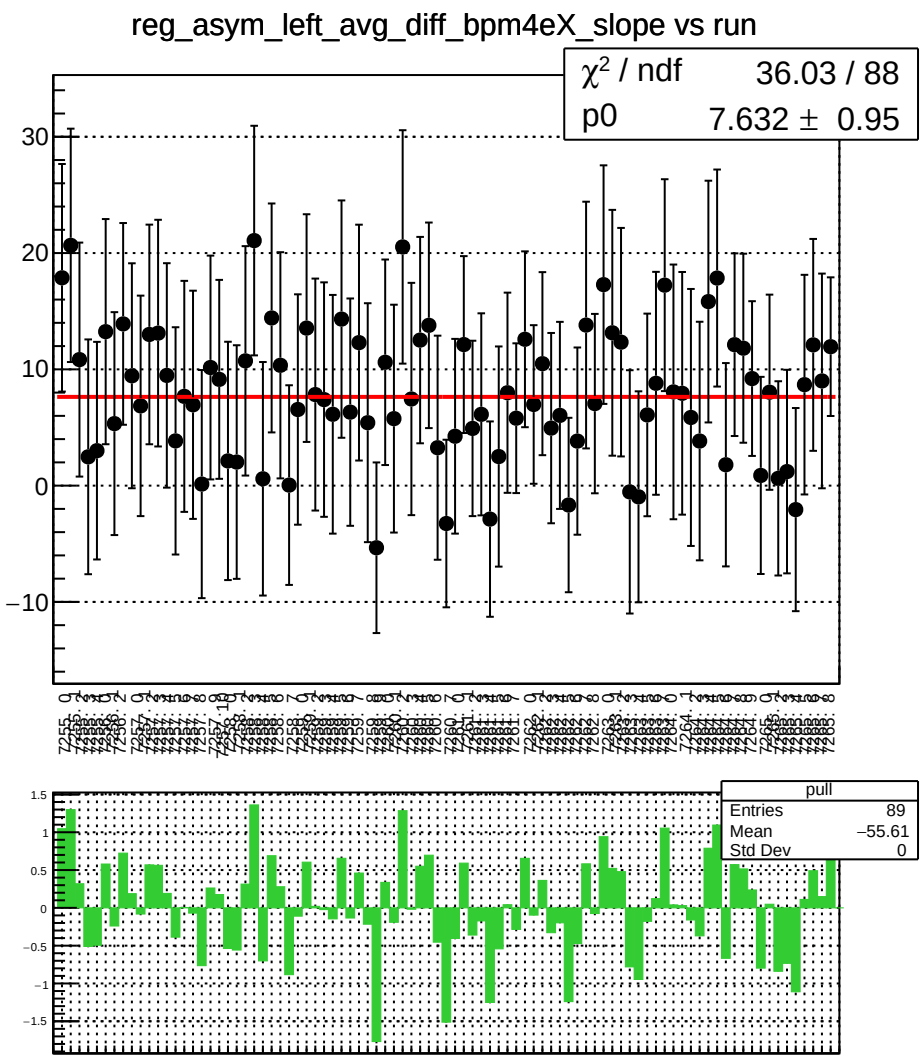

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 104 / 88
p0 0.01179 ± 0.009549
pull
Entries 89
Mean −198.5
Std Dev 0

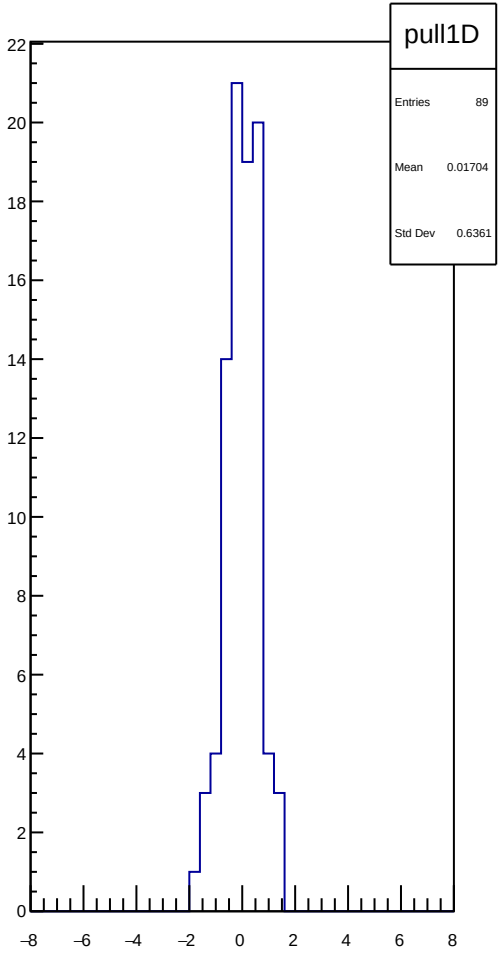

pull1D
Entries 89
Mean −0.01969
Std Dev 1.081

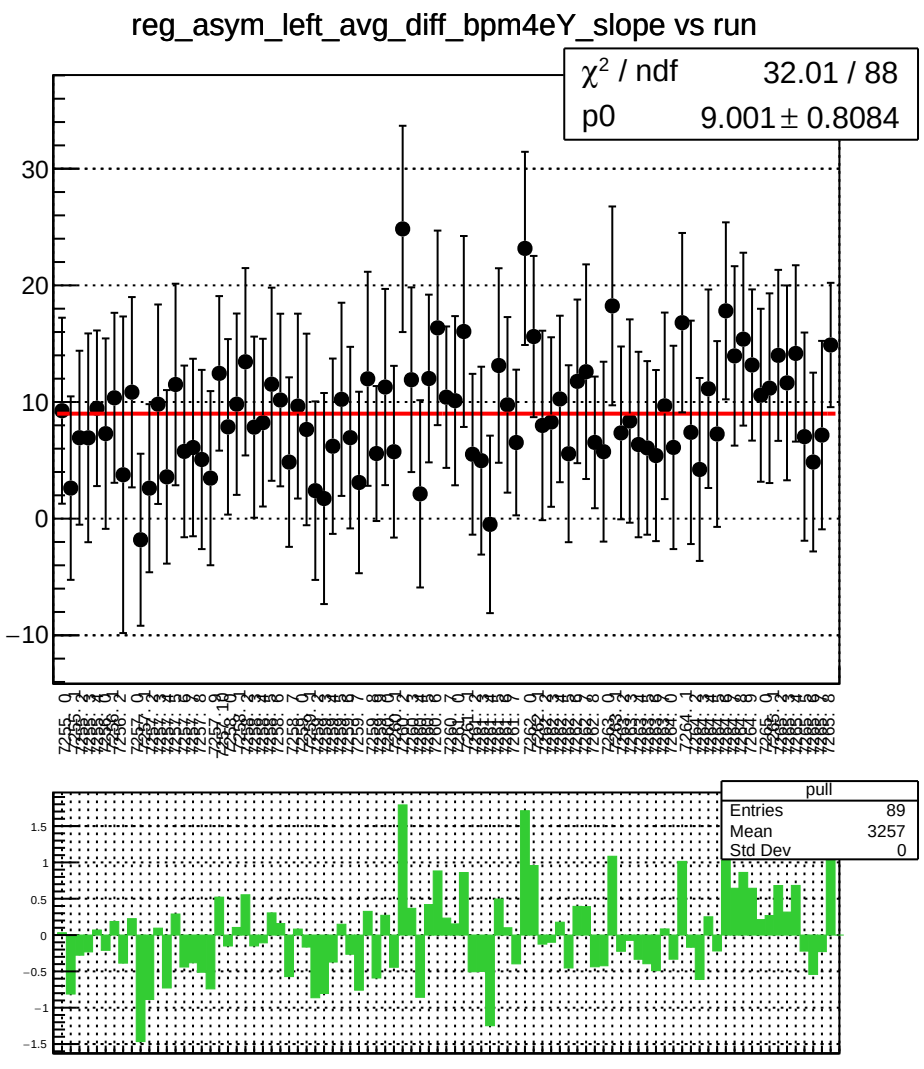

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 36.1 / 88
p0 −34.3 ± 0.8774
pull
Entries 89
Mean −73.24
Std Dev 0
pull1D
Entries 89
Mean −0.01741
Std Dev 0.6366

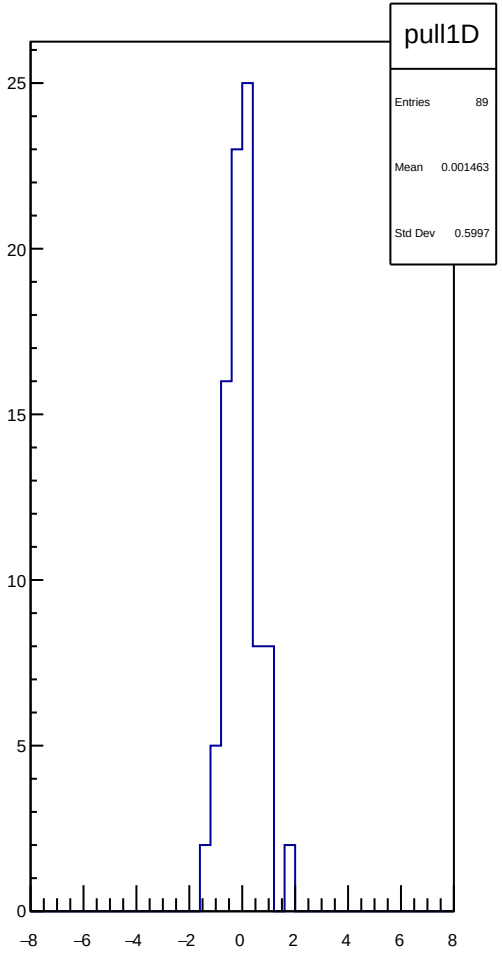

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.84 / 88
p0 1.672 ± 0.7694
pull
Entries 89
Mean 913.7
Std Dev 0

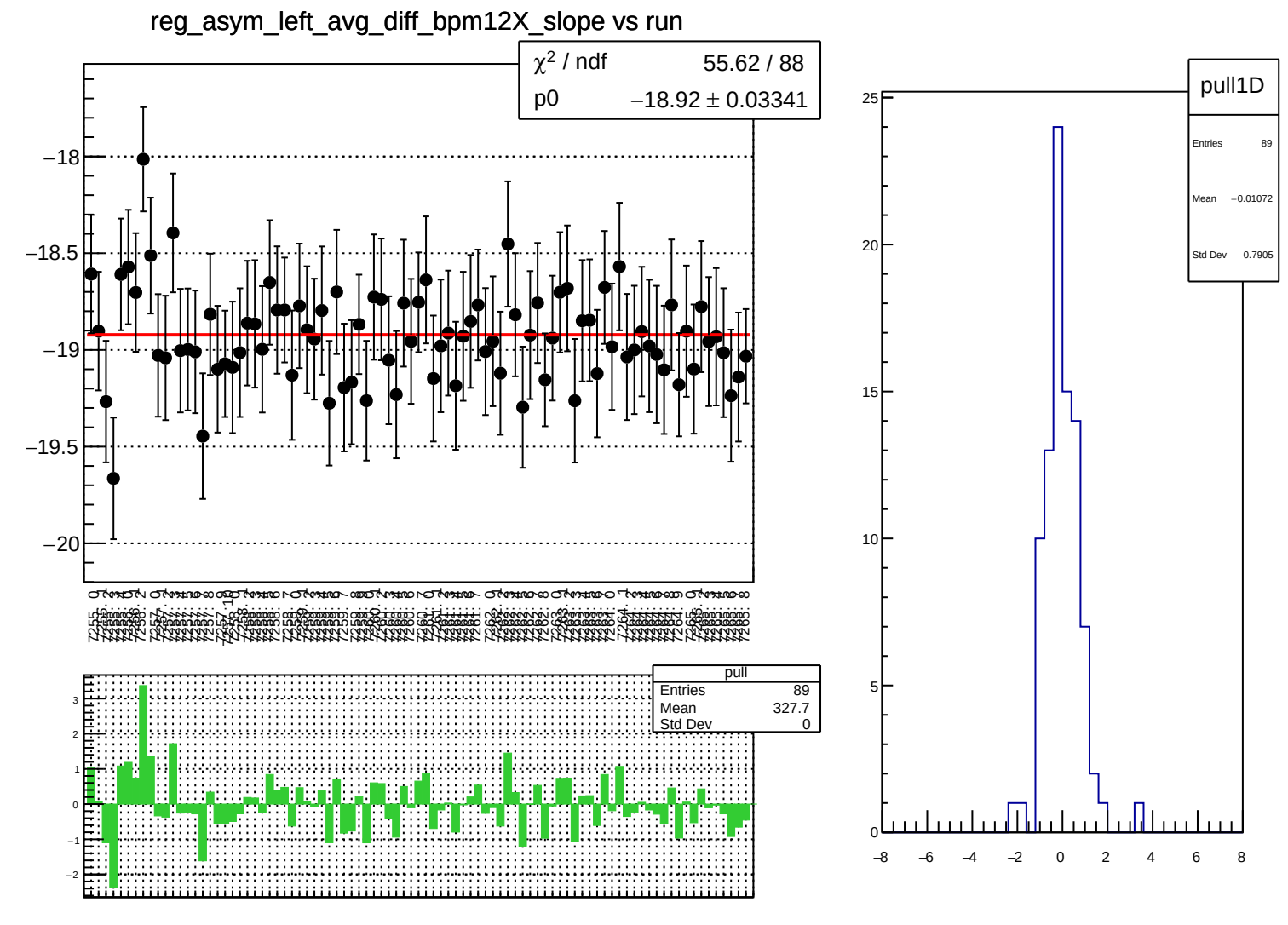

pull1D
Entries 89
Mean −0.004296
Std Dev 0.579

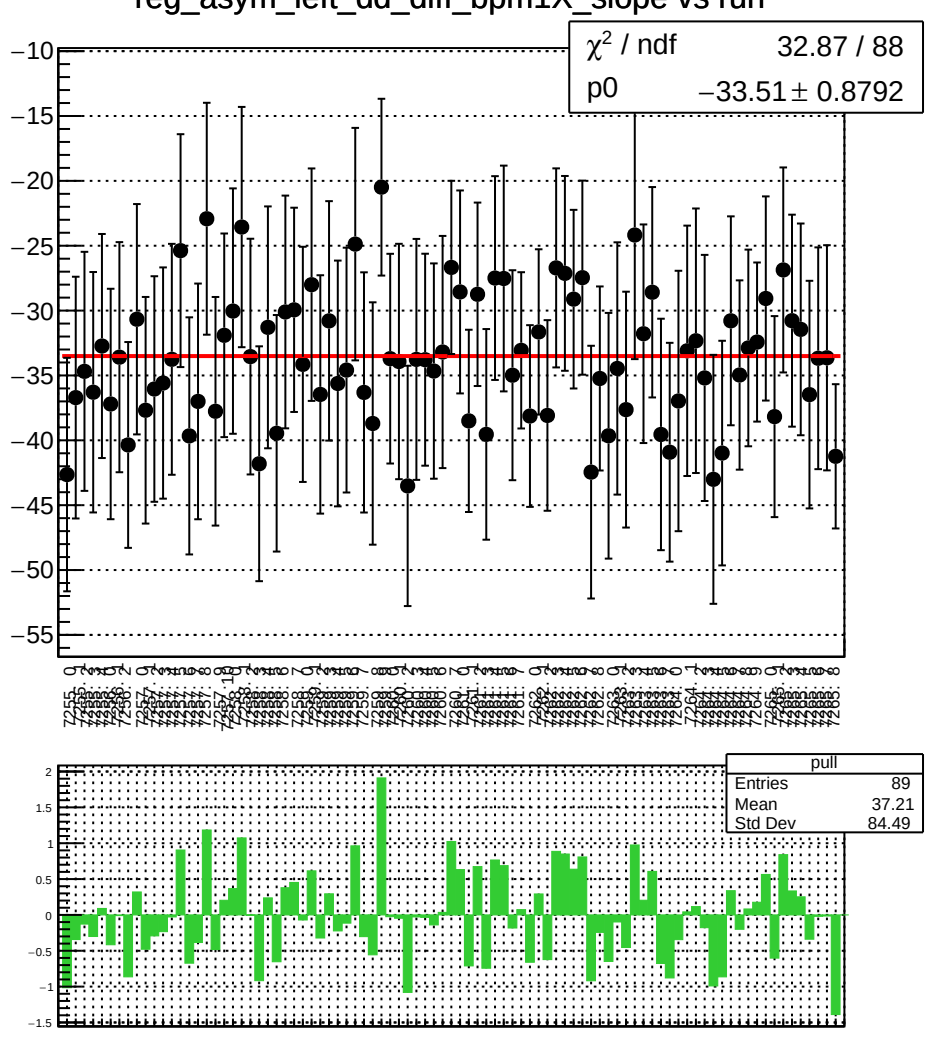

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.03 / 88
p0 7.632 ± 0.95
pull
Entries 89
Mean −55.61
Std Dev 0

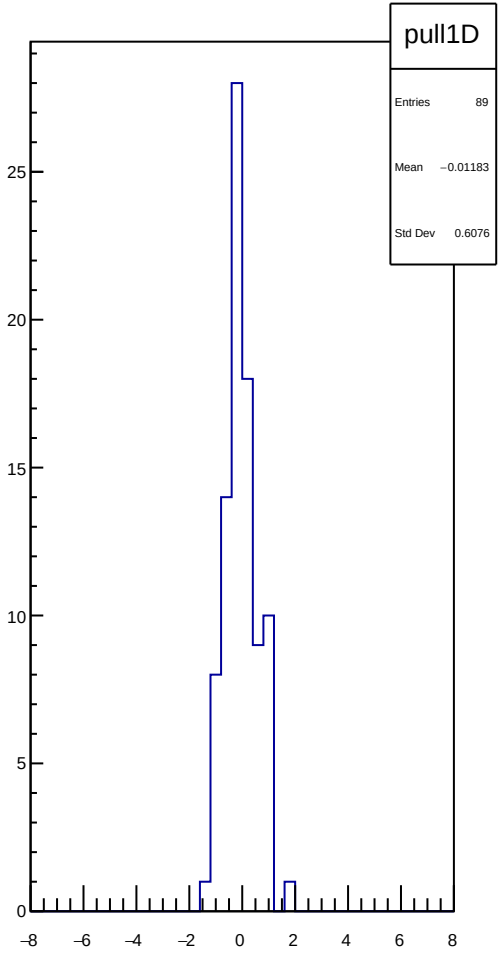

pull1D
Entries 89
Mean 0.01704
Std Dev 0.6361

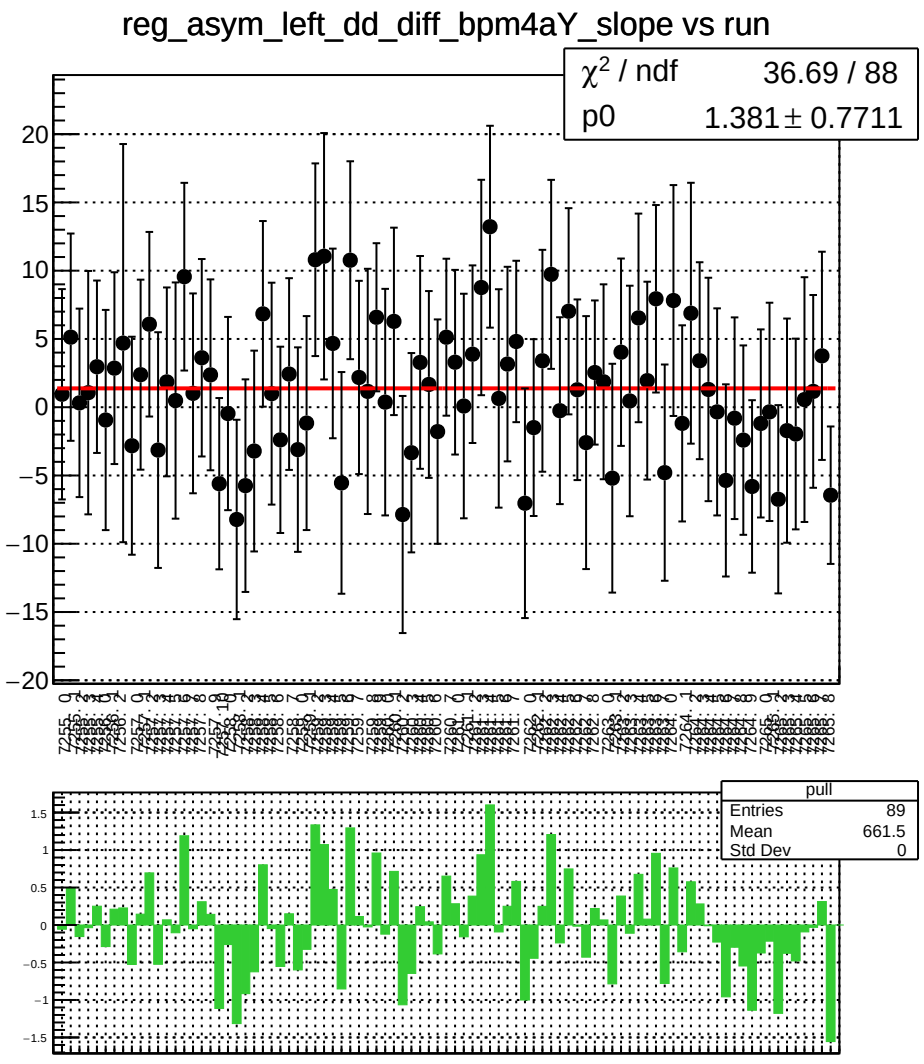

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.01 / 88
p0 9.001 ± 0.8084
pull
Entries 89
Mean 3257
Std Dev 0

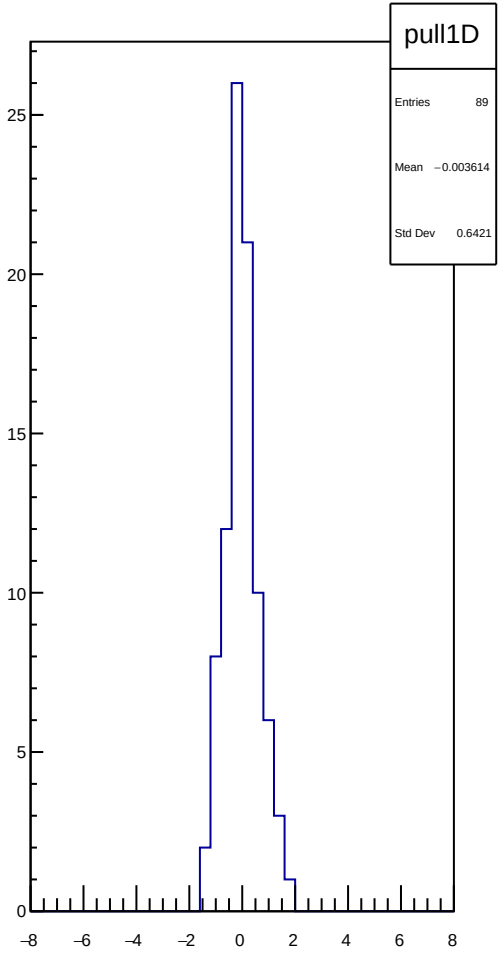

pull1D
Entries 89
Mean 0.001463
Std Dev 0.5997

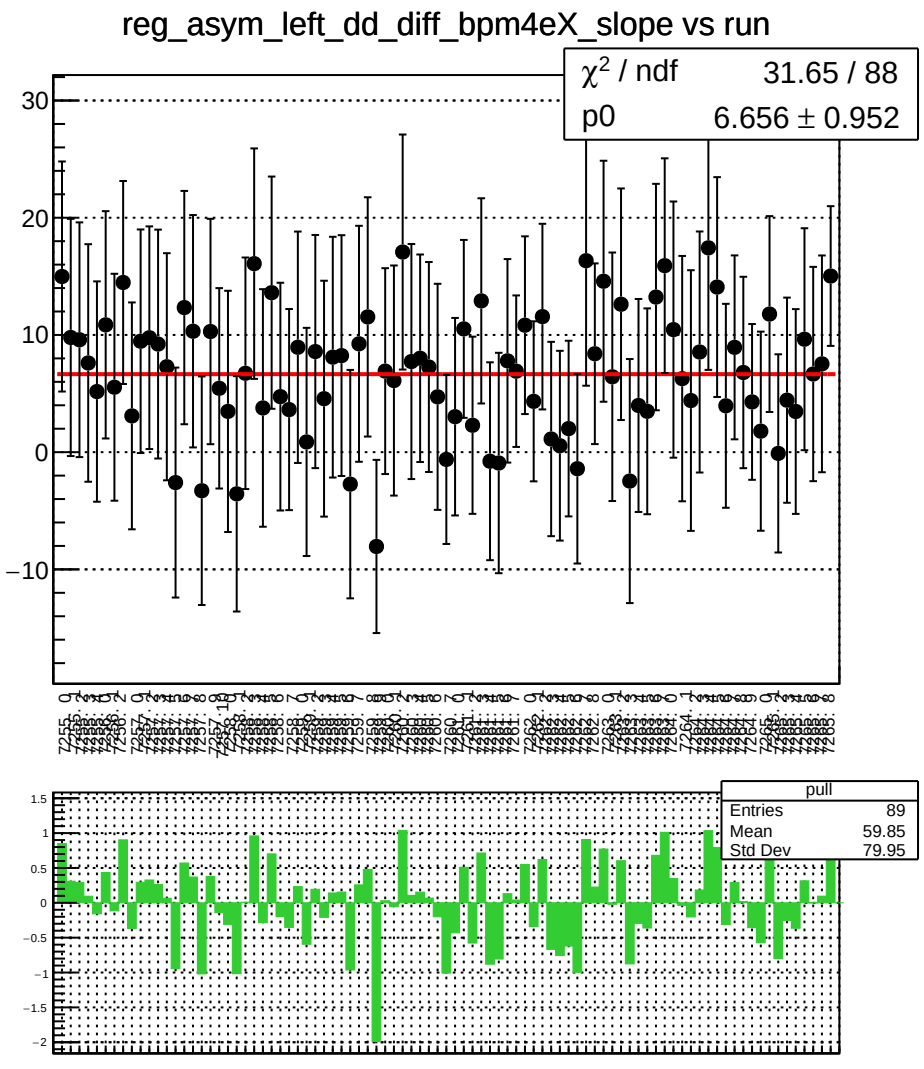

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 55.62 / 88
p0 −18.92 ± 0.03341
−18
−18.5
−19
−19.5
−20
pull
Entries 89
Mean 327.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01072
Std Dev 0.7905
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

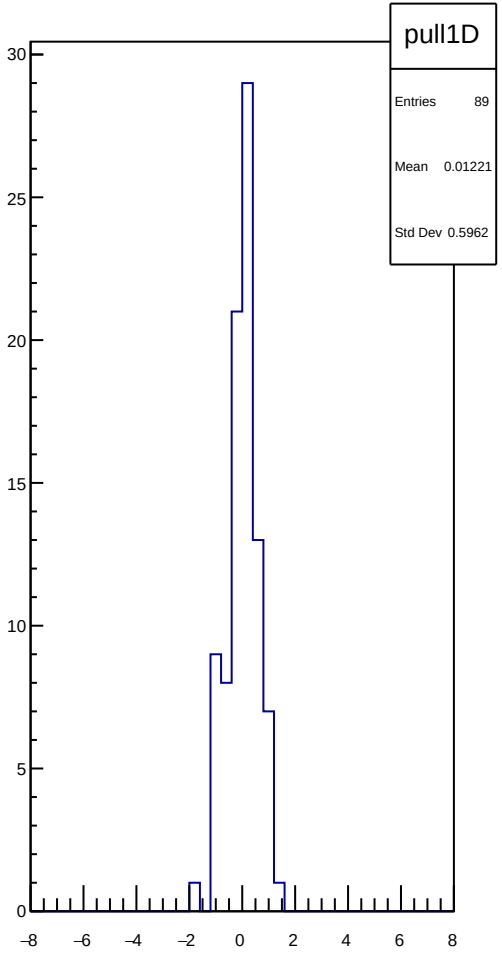

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 32.87 / 88
p0 −33.51 ± 0.8792
pull
Entries 89
Mean 37.21
Std Dev 84.49

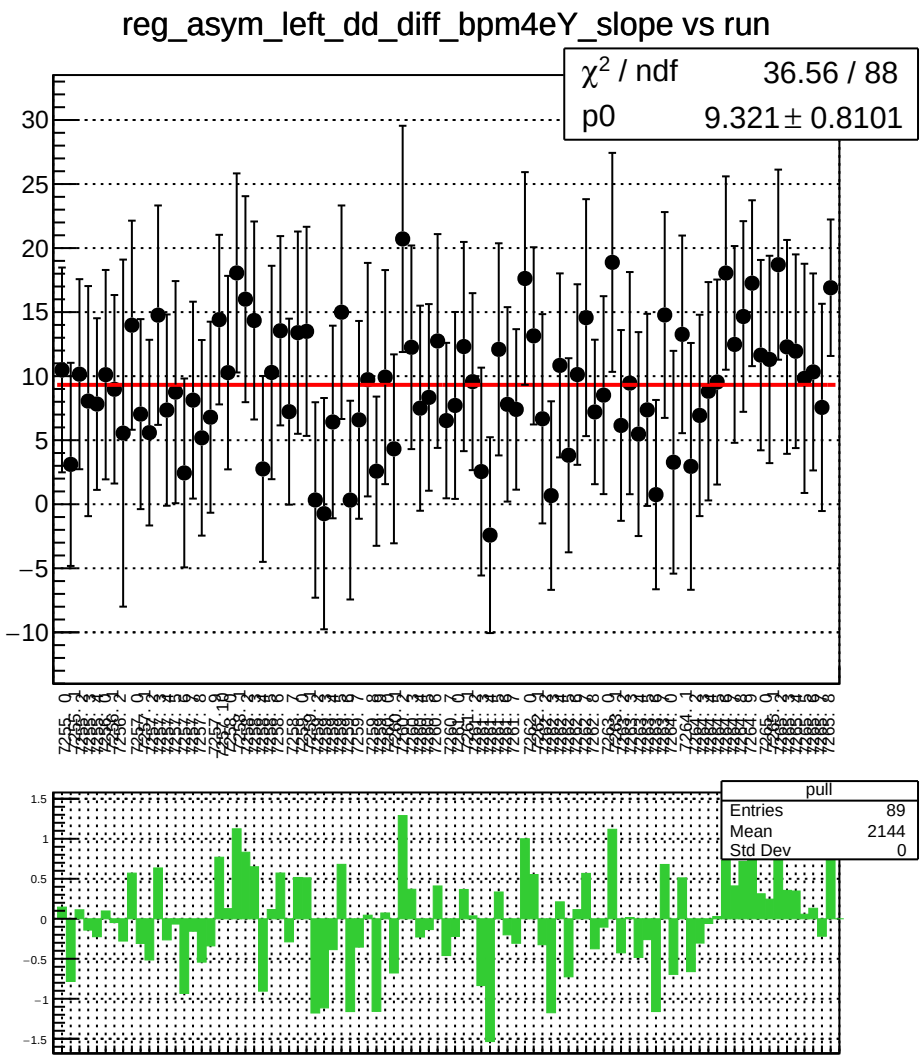

pull1D
Entries 89
Mean −0.01183
Std Dev 0.6076

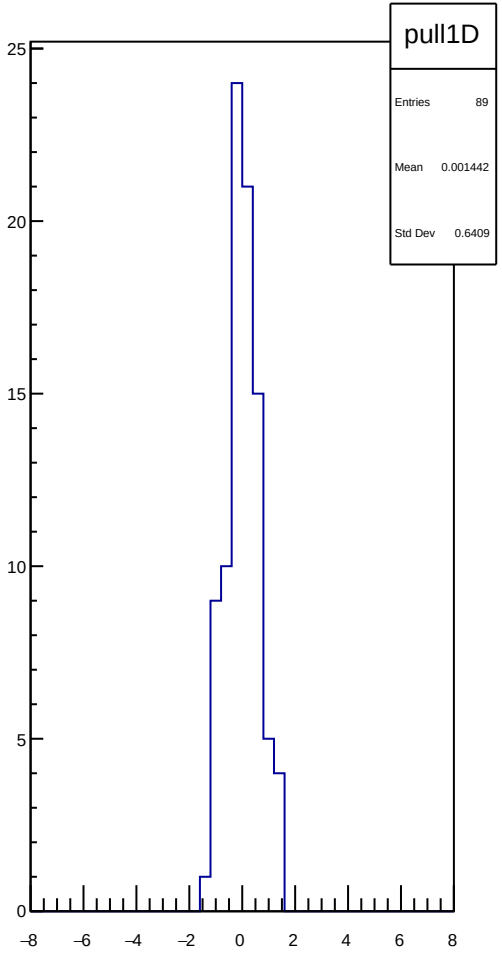

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.69 / 88
p0 1.381 ± 0.7711
pull
Entries 89
Mean 661.5
Std Dev 0

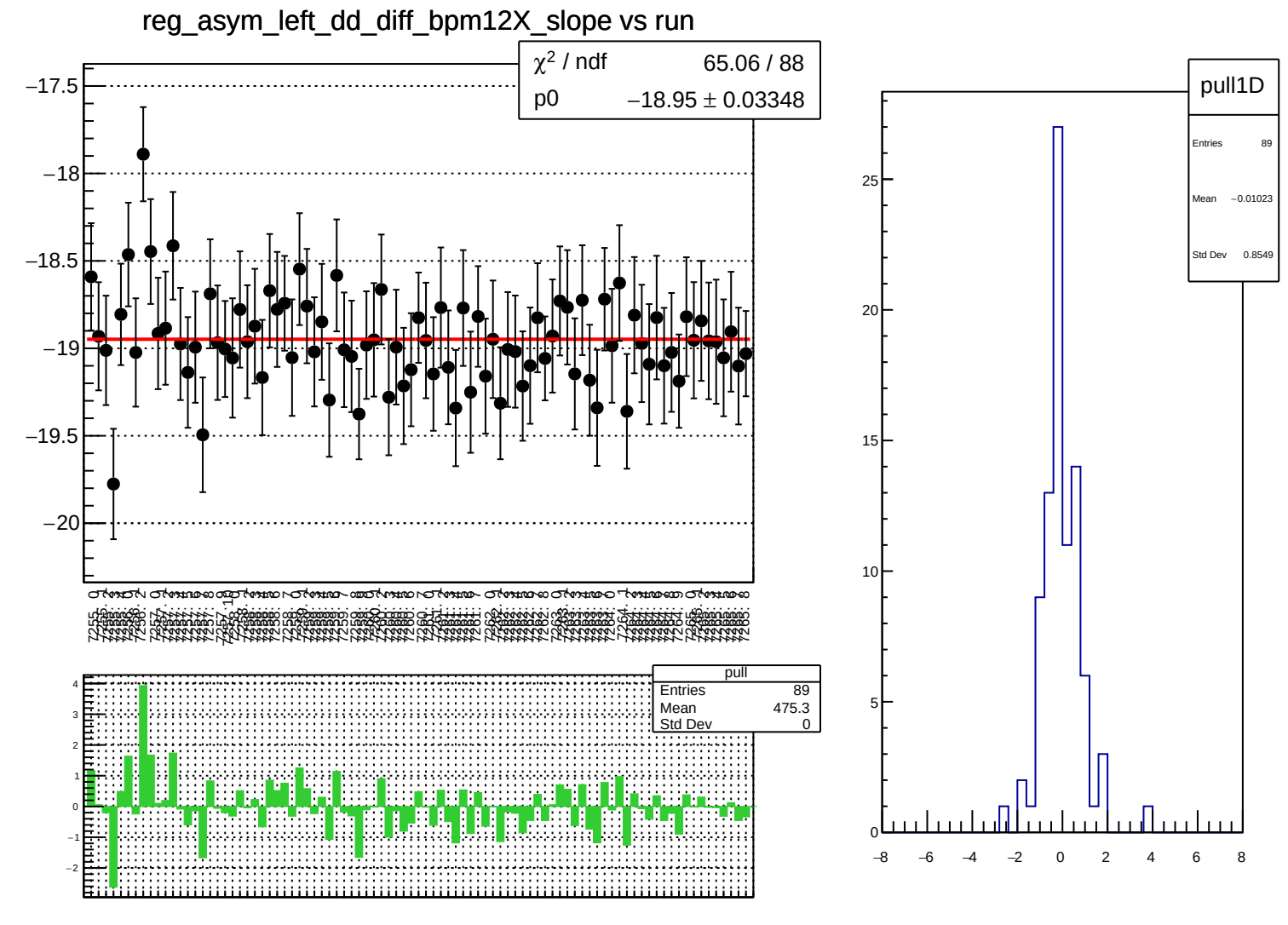

pull1D
Entries 89
Mean −0.003614
Std Dev 0.6421

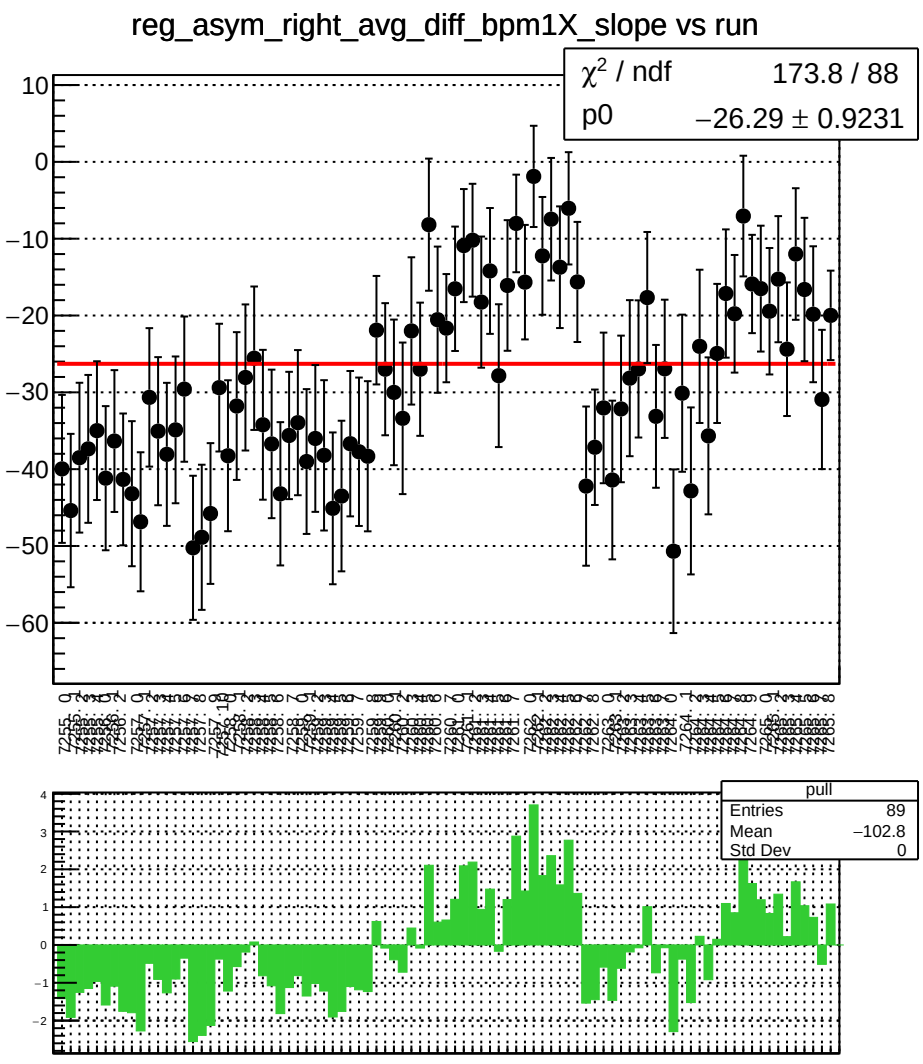

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.65 / 88
p0 6.656 ± 0.952
pull
Entries 89
Mean 59.85
Std Dev 79.95

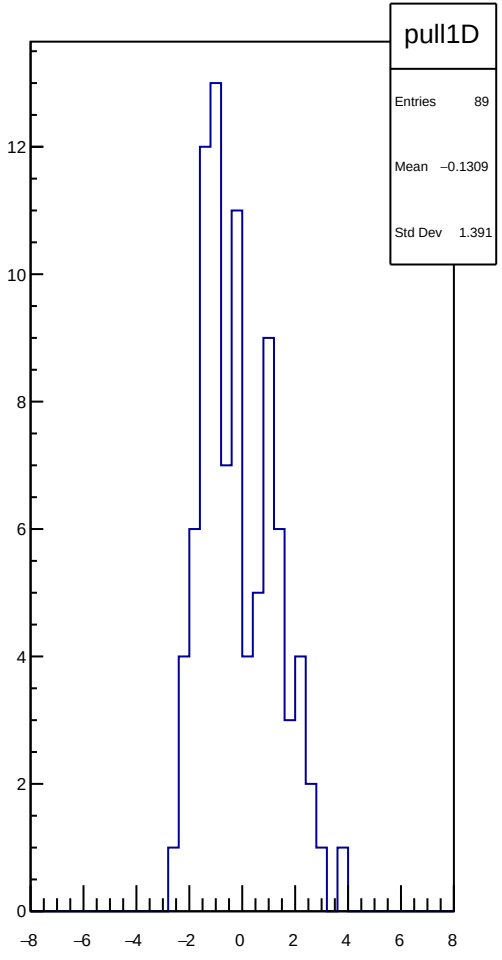

pull1D
Entries 89
Mean 0.01221
Std Dev 0.5962

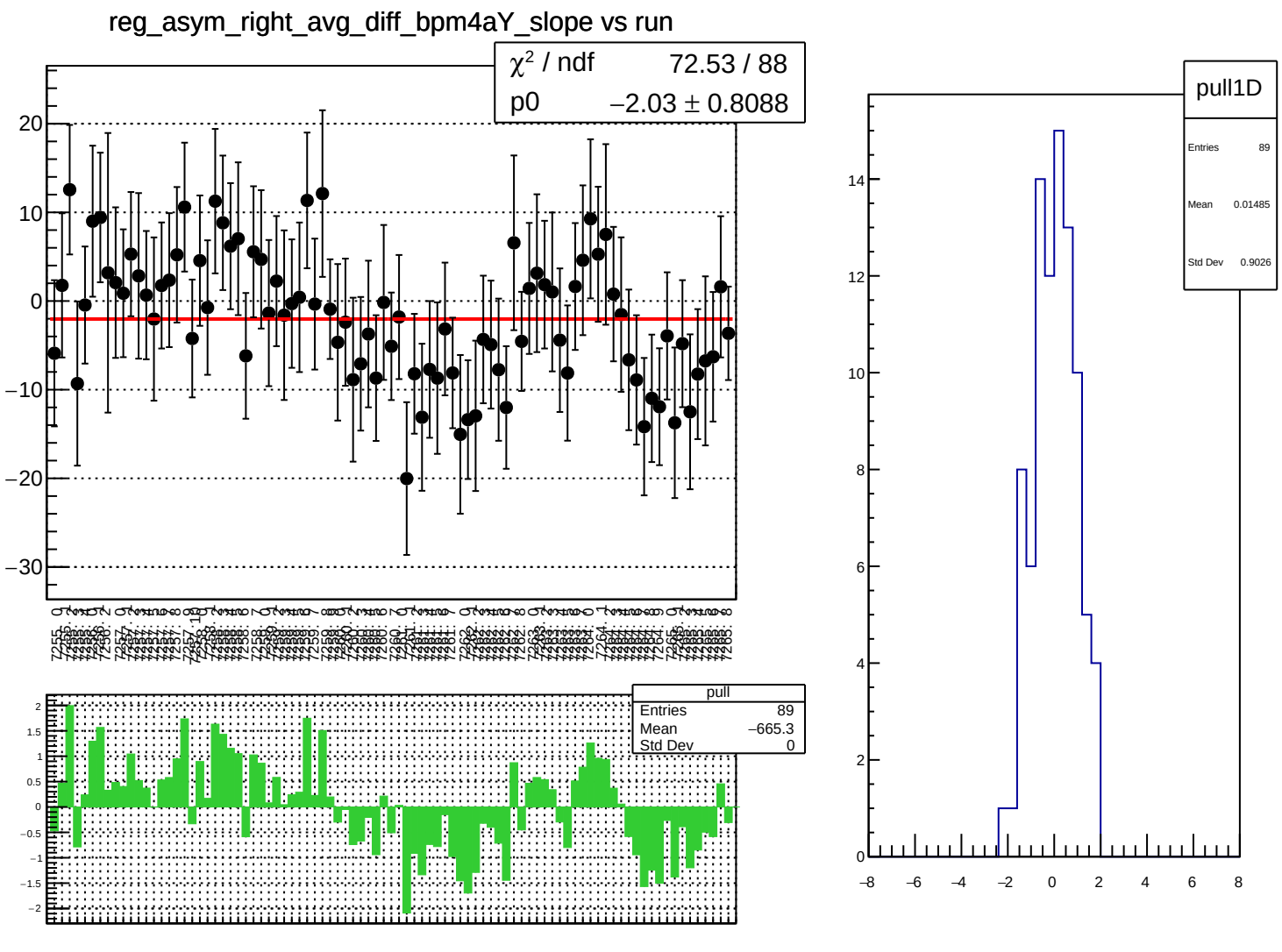

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.56 / 88
p0 9.321 ± 0.8101
pull
Entries 89
Mean 2144
Std Dev 0

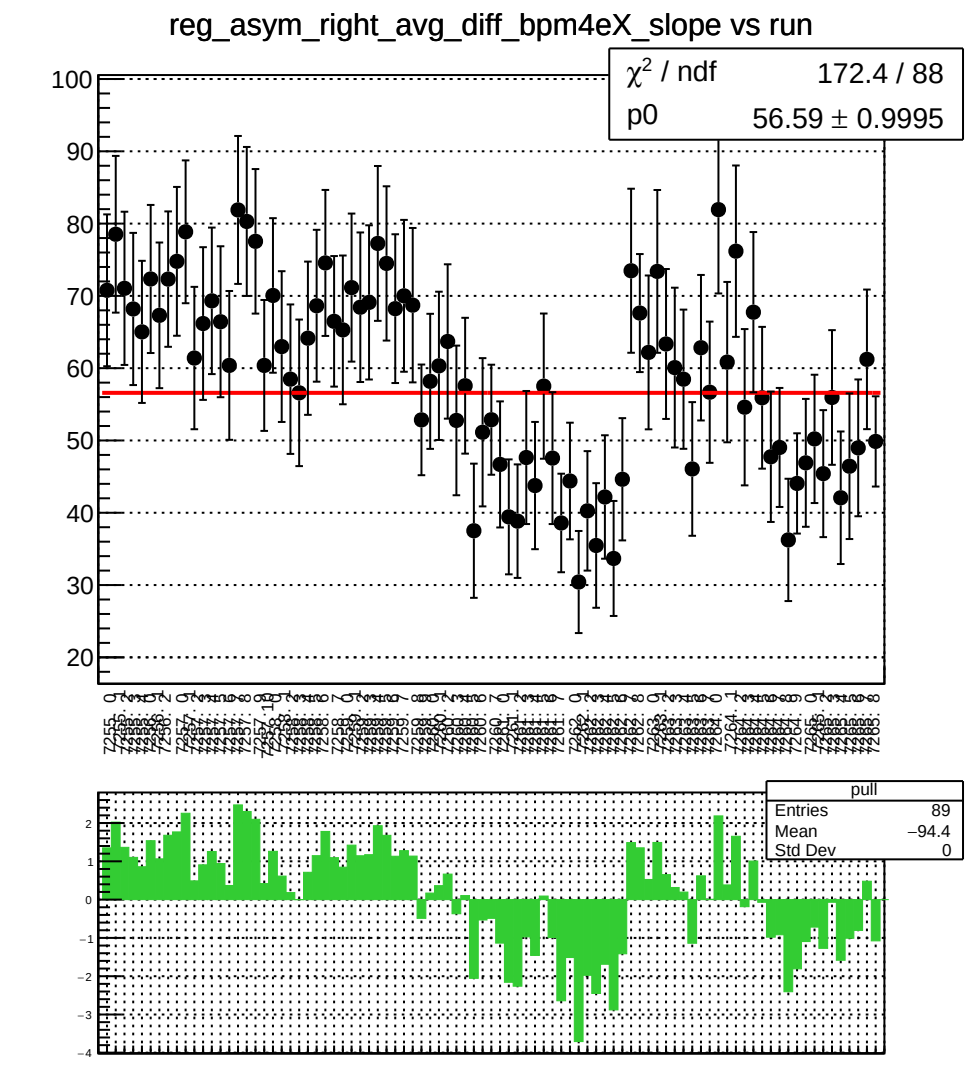

pull1D
Entries 89
Mean 0.001442
Std Dev 0.6409

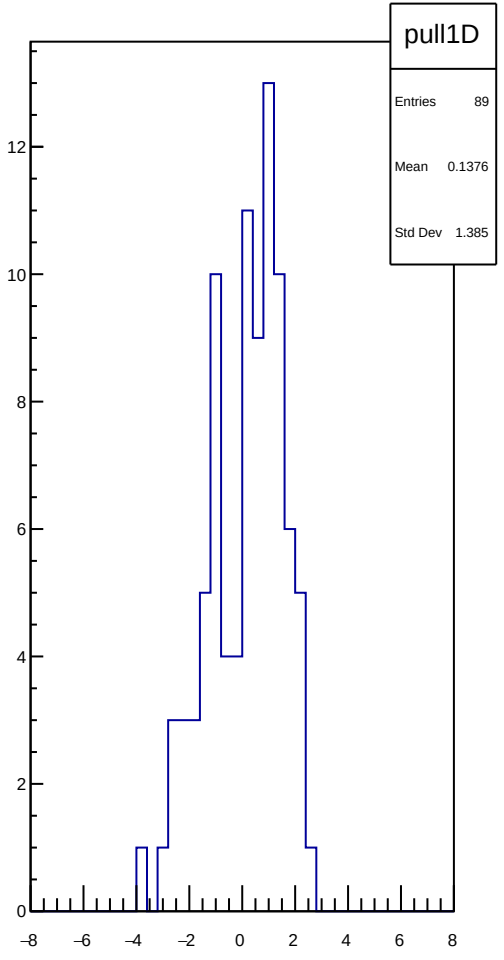

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 65.06 / 88
p0 −18.95 ± 0.03348
−17.5
−18
−18.5
−19
−19.5
−20
pull
Entries 89
Mean 475.3
Std Dev 0
pull1D
Entries 89
Mean −0.01023
Std Dev 0.8549
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

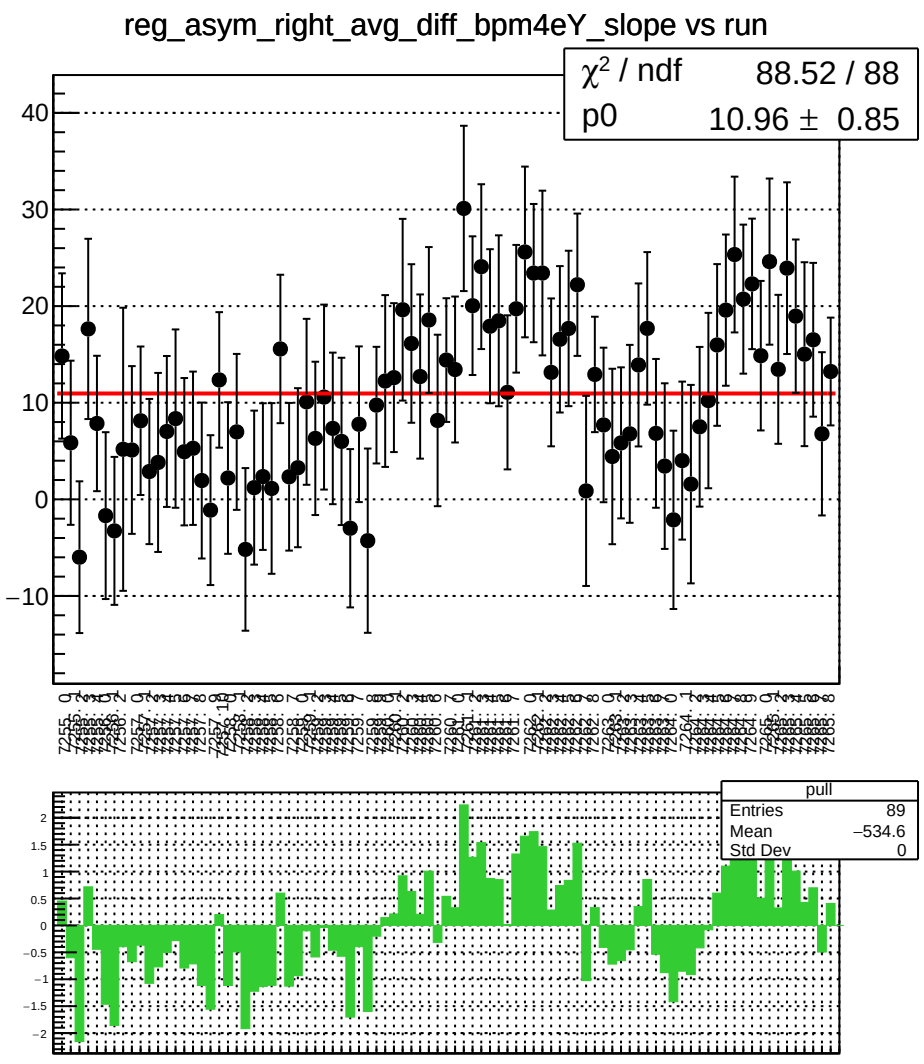

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 173.8 / 88
p0 −26.29 ± 0.9231
pull
Entries 89
Mean −102.8
Std Dev 0

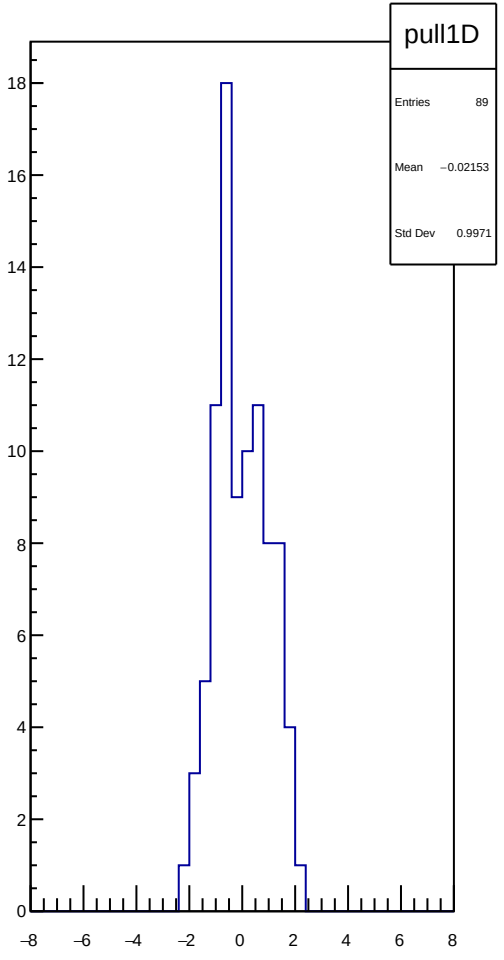

pull1D
Entries 89
Mean −0.1309
Std Dev 1.391

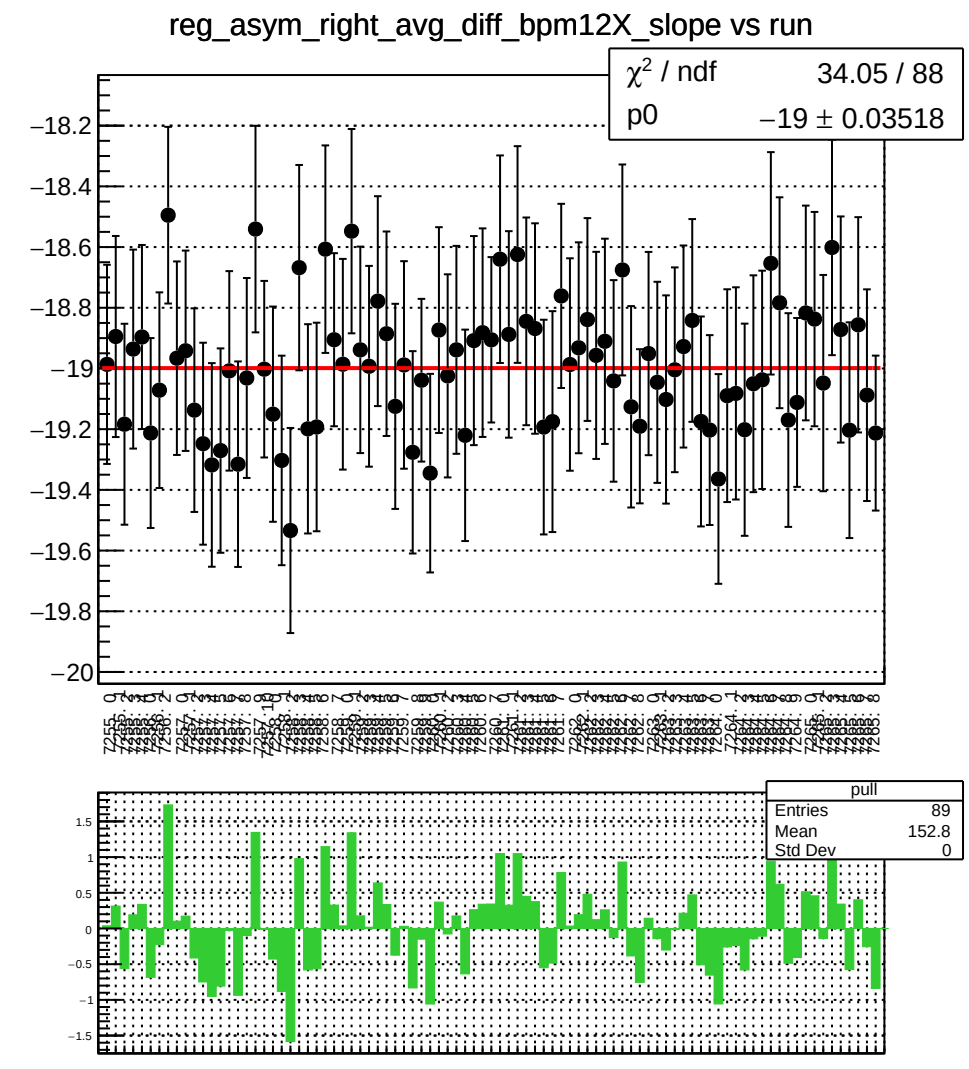

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 72.53 / 88
p0 −2.03 ± 0.8088
pull
Entries 89
Mean −665.3
Std Dev 0
pull1D
Entries 89
Mean 0.01485
Std Dev 0.9026

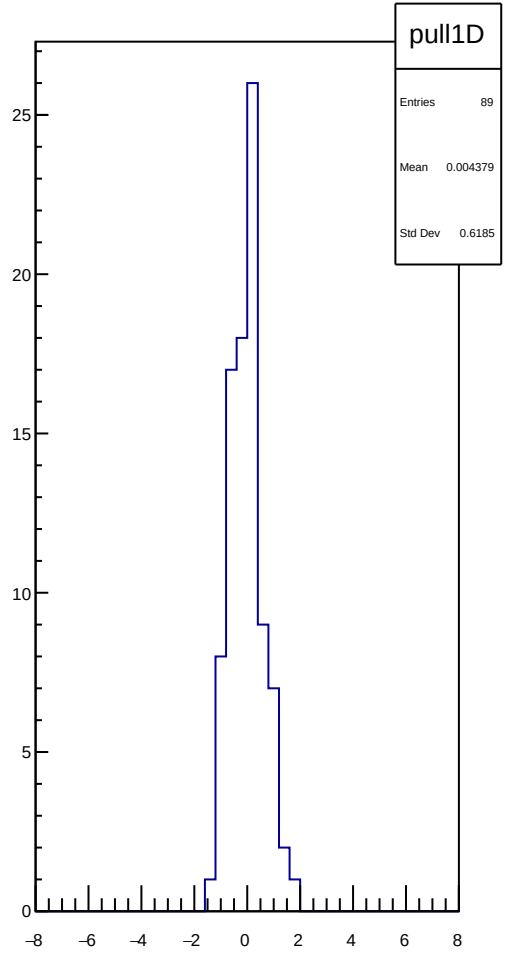

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 172.4 / 88
p0 56.59 ± 0.9995
pull
Entries 89
Mean −94.4
Std Dev 0

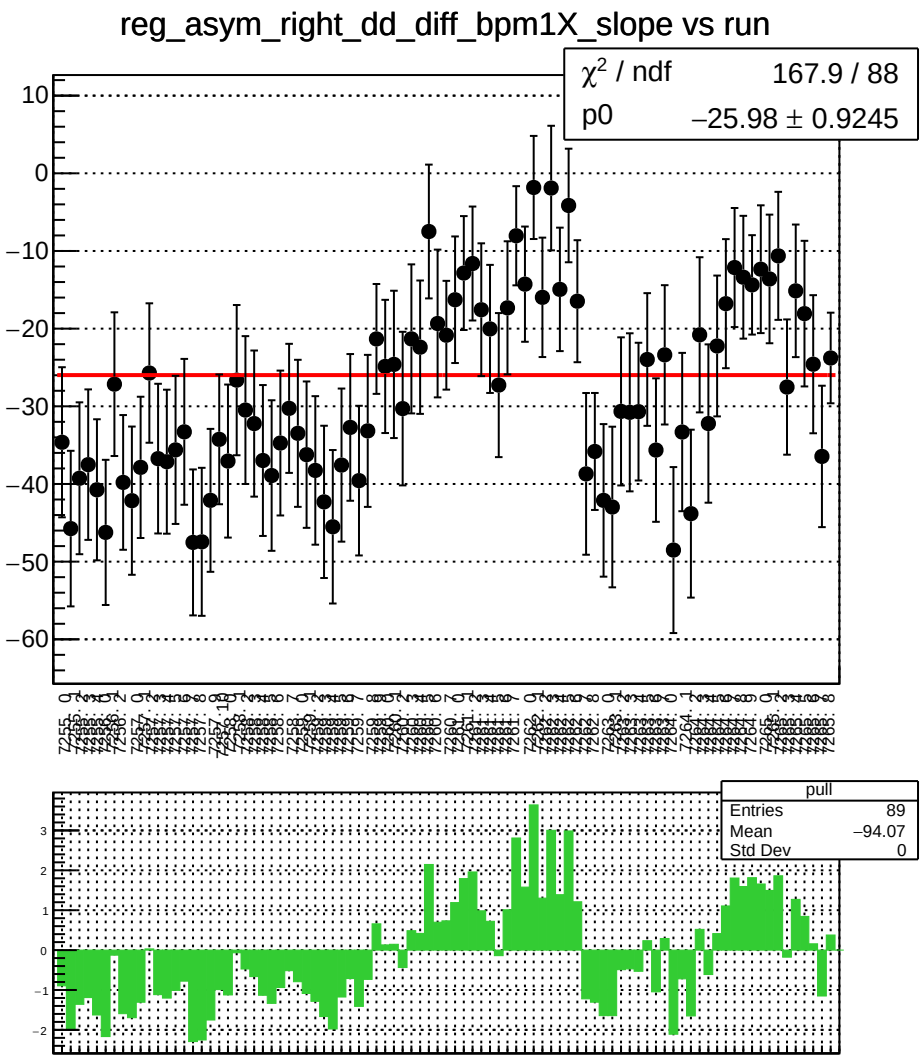

pull1D
Entries 89
Mean 0.1376
Std Dev 1.385

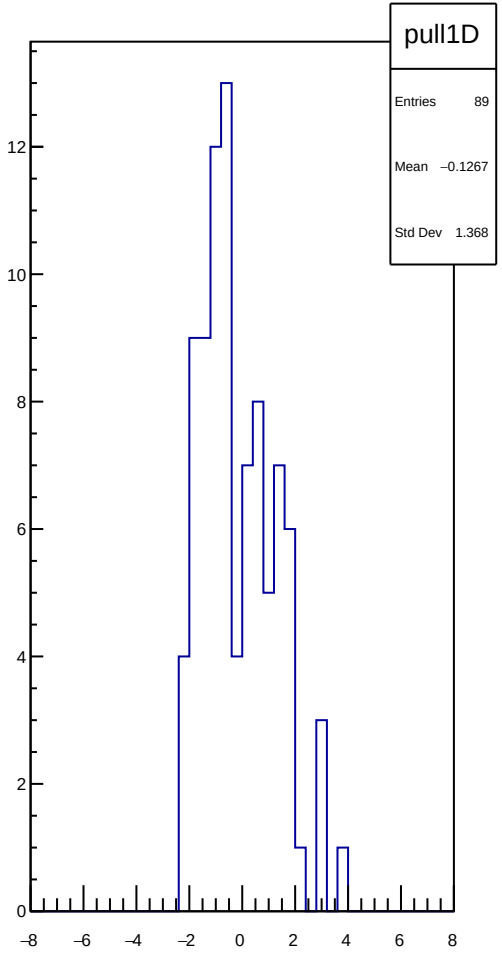

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.52 / 88
p0 10.96 ± 0.85
pull
Entries 89
Mean −534.6
Std Dev 0

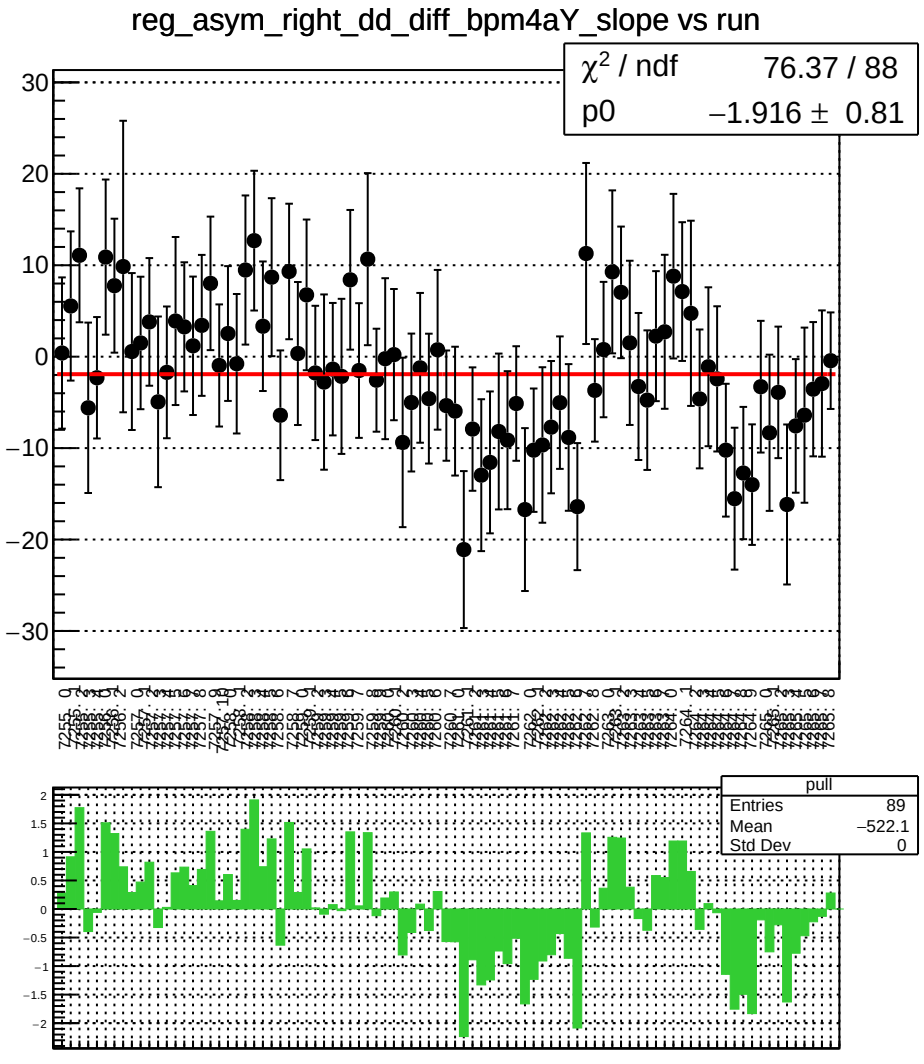

pull1D
Entries 89
Mean −0.02153
Std Dev 0.9971

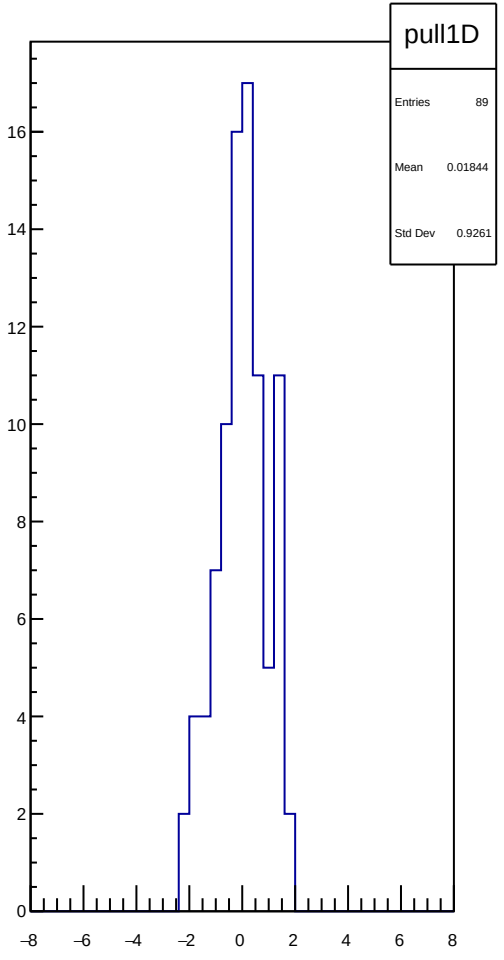

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 34.05 / 88
p0 −19 ± 0.03518
pull
Entries 89
Mean 152.8
Std Dev 0

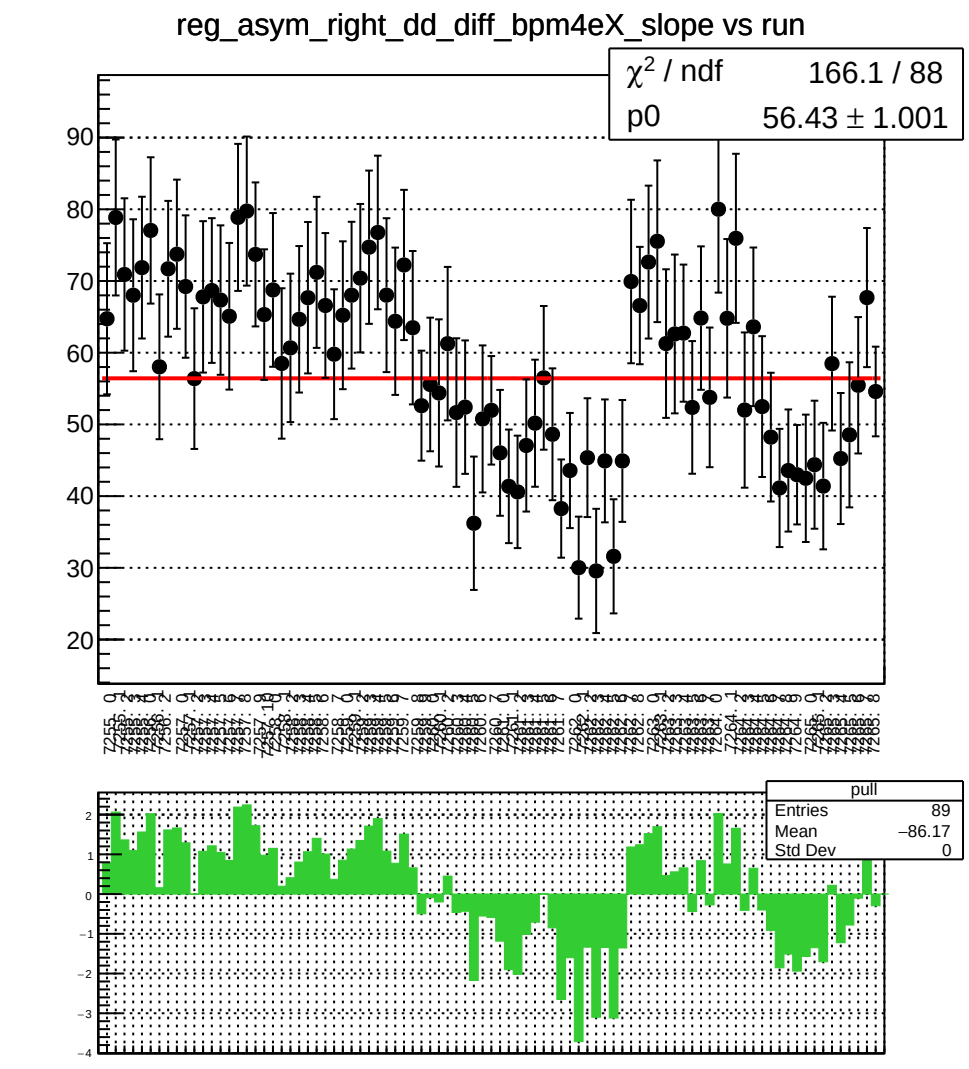

pull1D
Entries 89
Mean 0.004379
Std Dev 0.6185

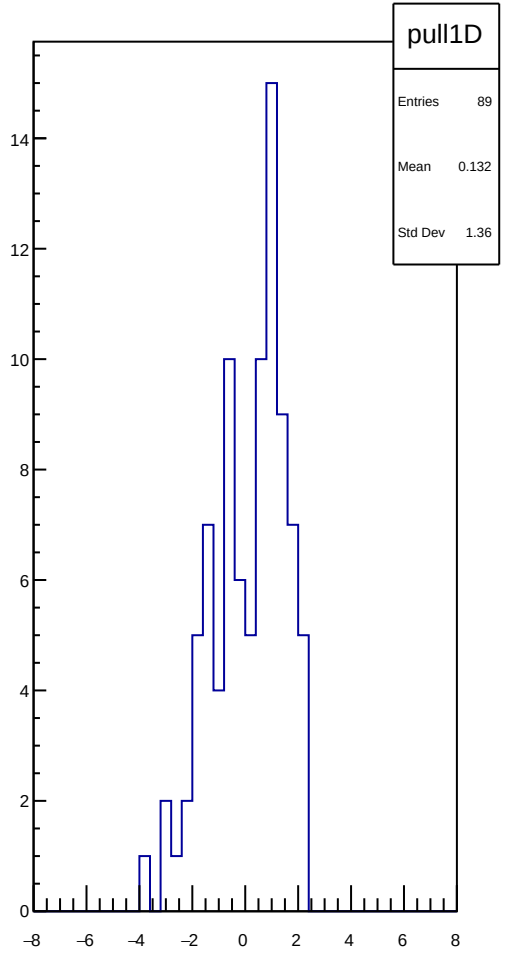

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 167.9 / 88
p0 −25.98 ± 0.9245
pull
Entries 89
Mean −94.07
Std Dev 0

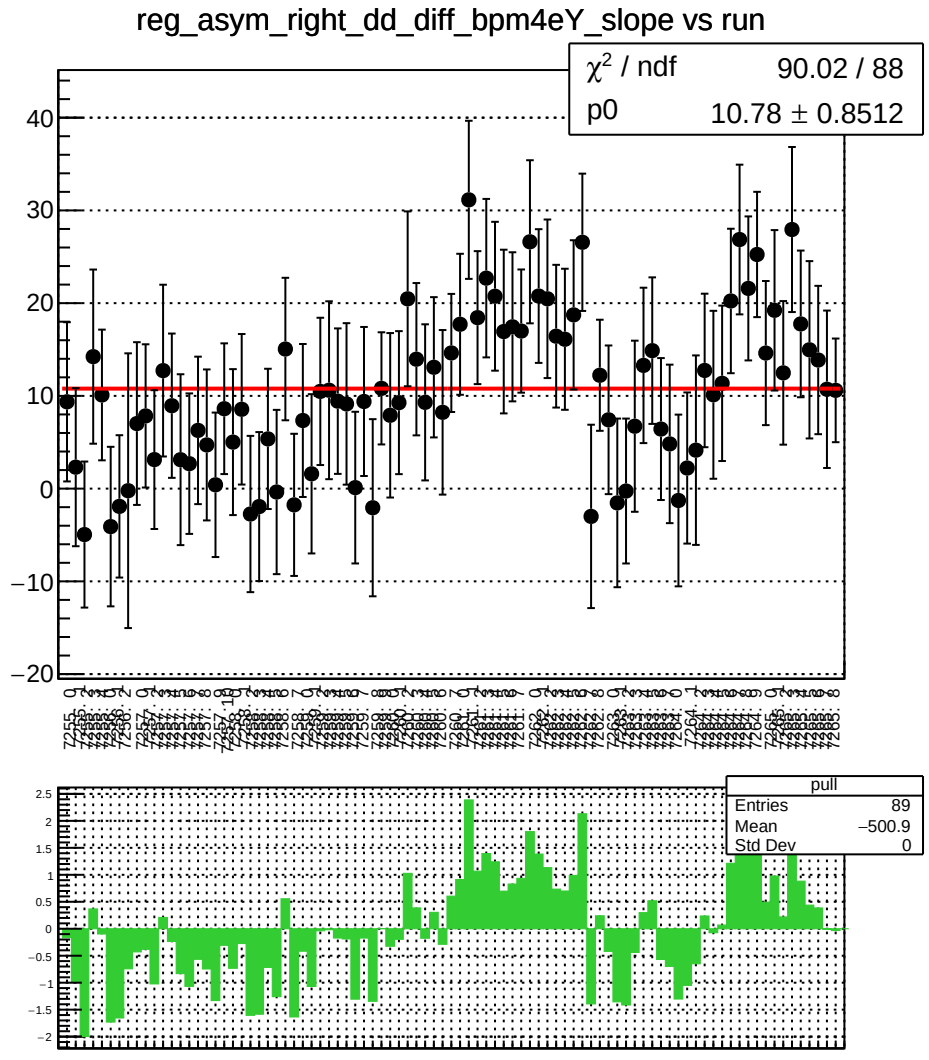

pull1D
Entries 89
Mean −0.1267
Std Dev 1.368

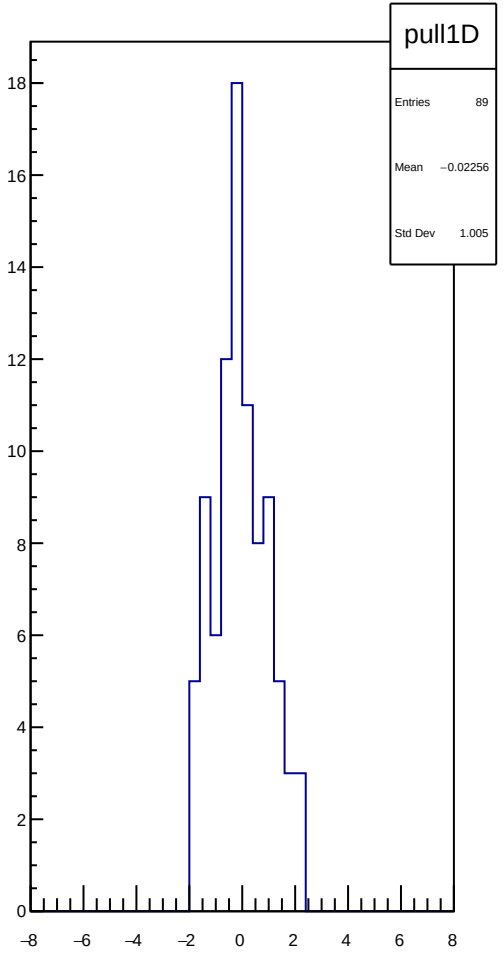

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.37 / 88
p0 −1.916 ± 0.81
pull
Entries 89
Mean −522.1
Std Dev 0

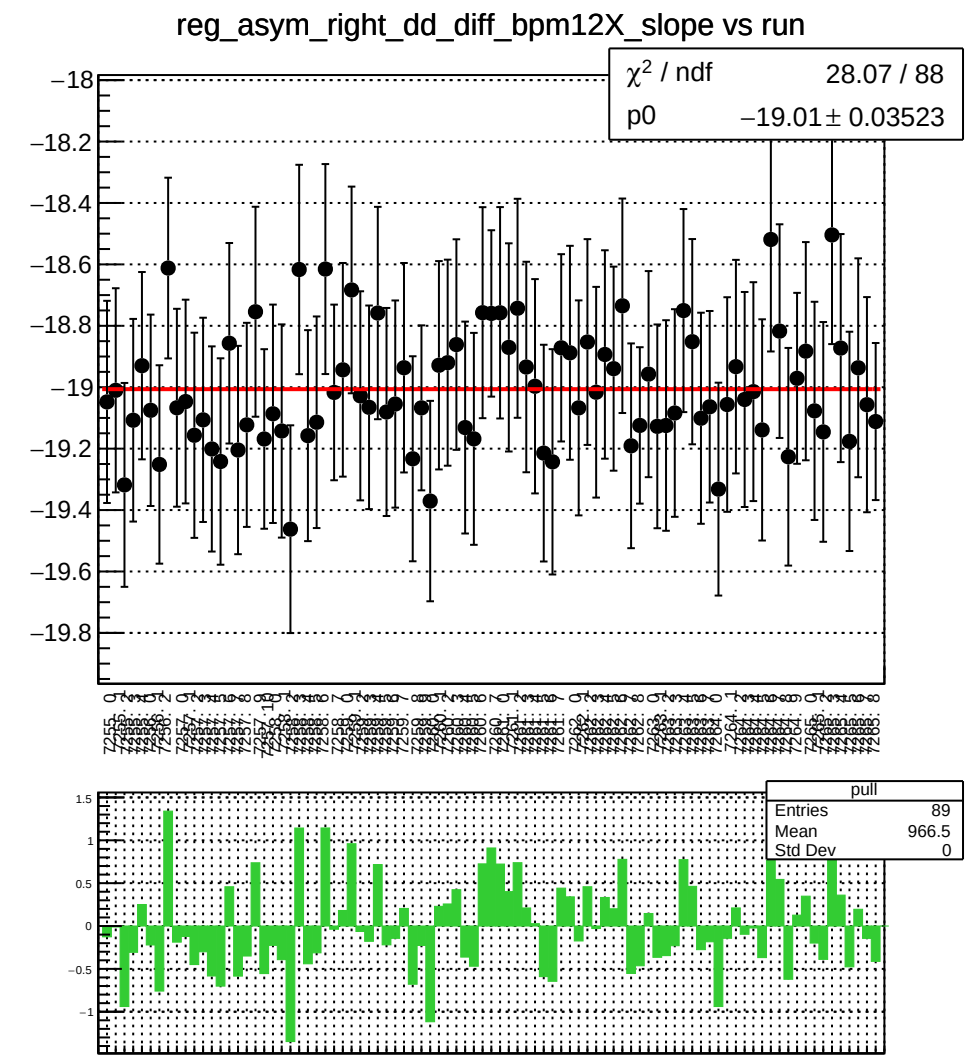

pull1D
Entries 89
Mean 0.01844
Std Dev 0.9261

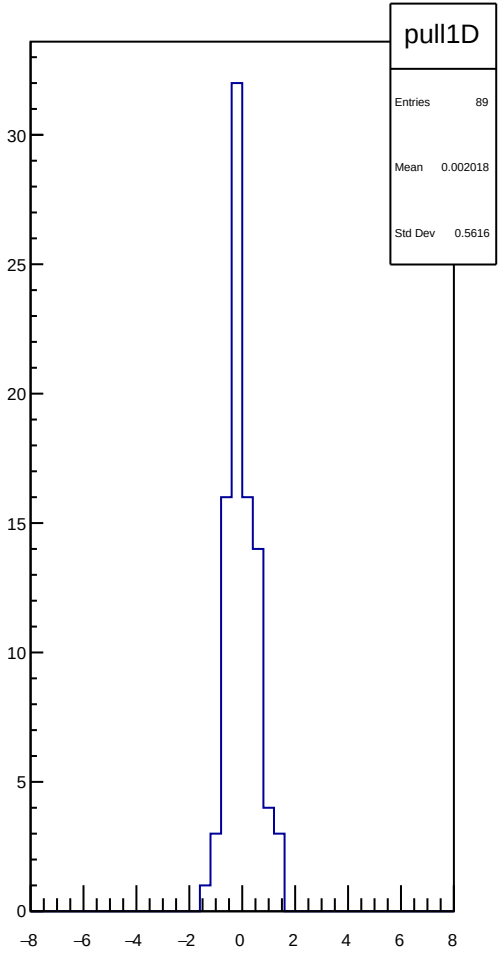

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 166.1 / 88
p0 56.43 ± 1.001
pull
Entries 89
Mean −86.17
Std Dev 0

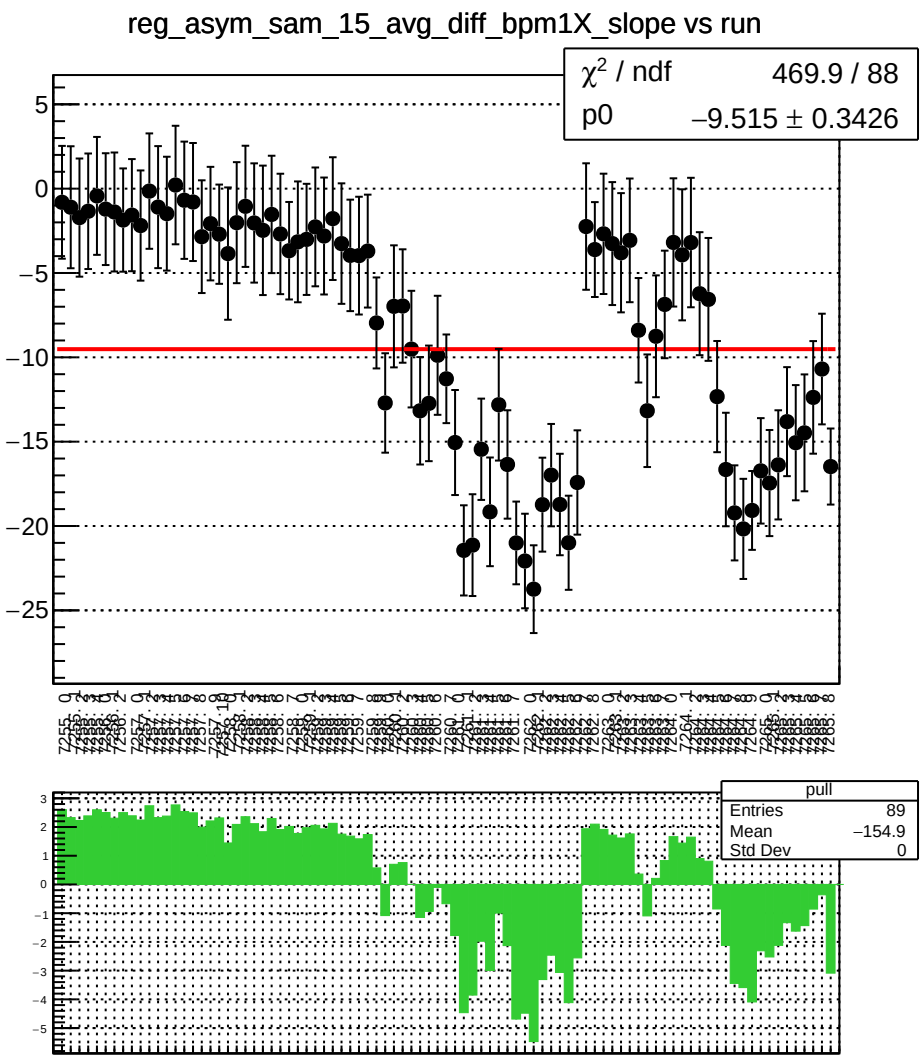

pull1D
Entries 89
Mean 0.132
Std Dev 1.36

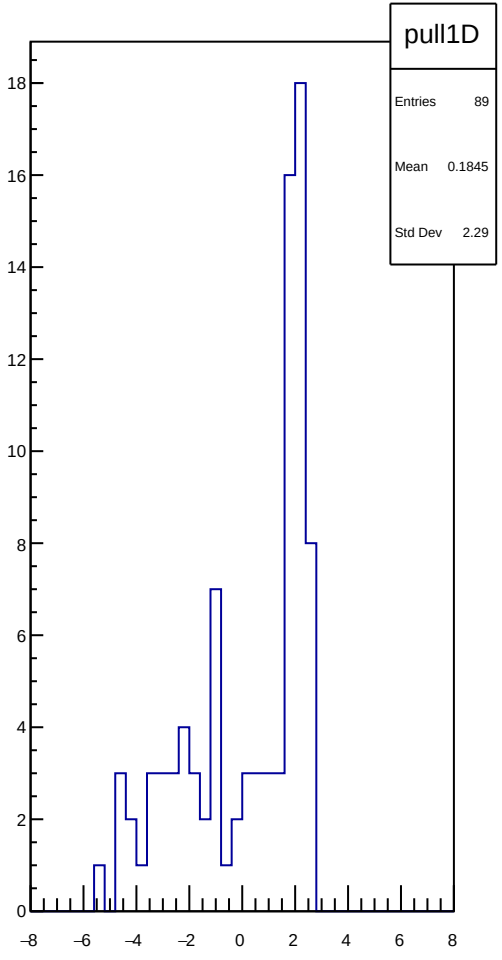

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 90.02 / 88
p0 10.78 ± 0.8512
pull
Entries 89
Mean −500.9
Std Dev 0

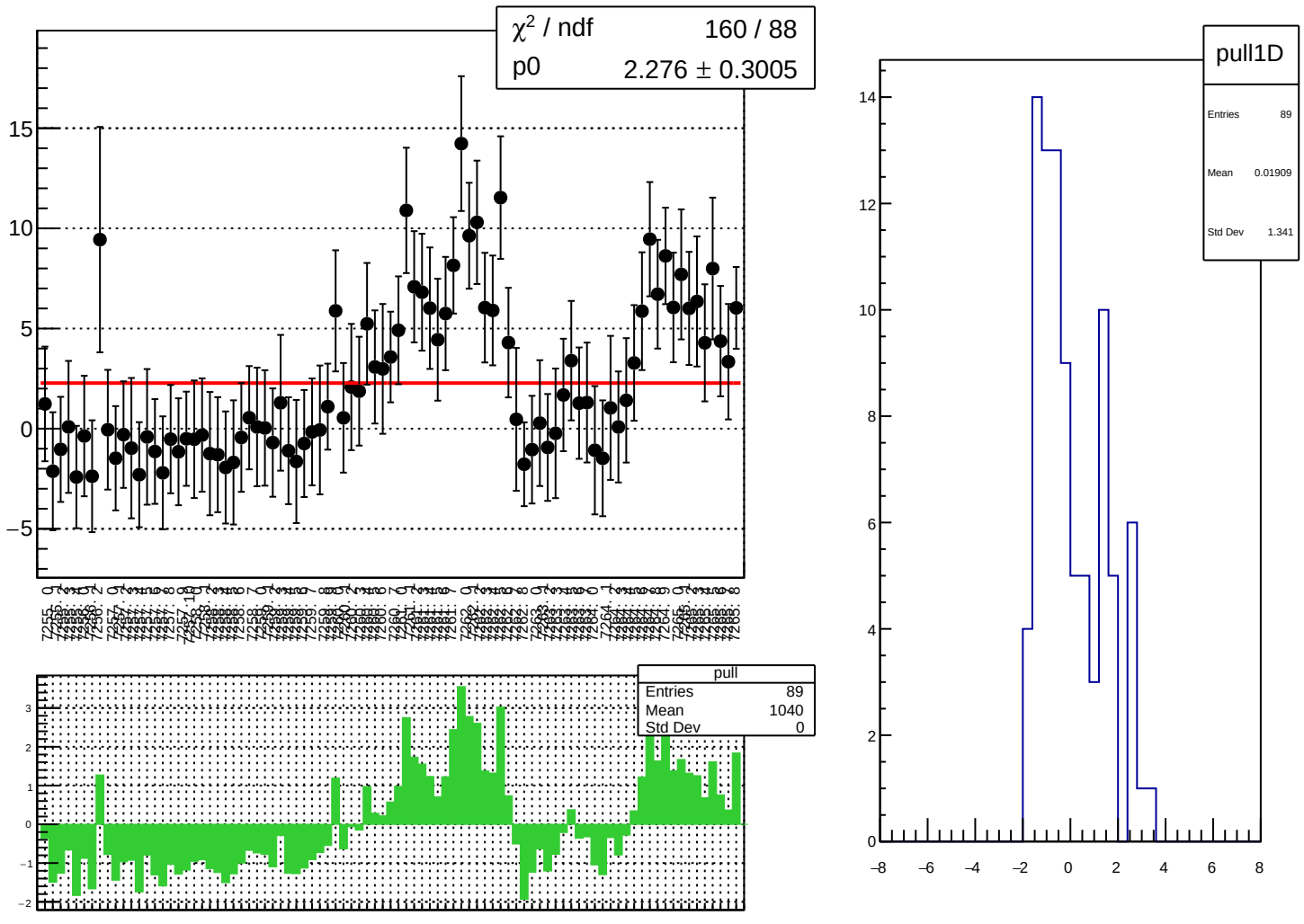

pull1D
Entries 89
Mean −0.02256
Std Dev 1.005

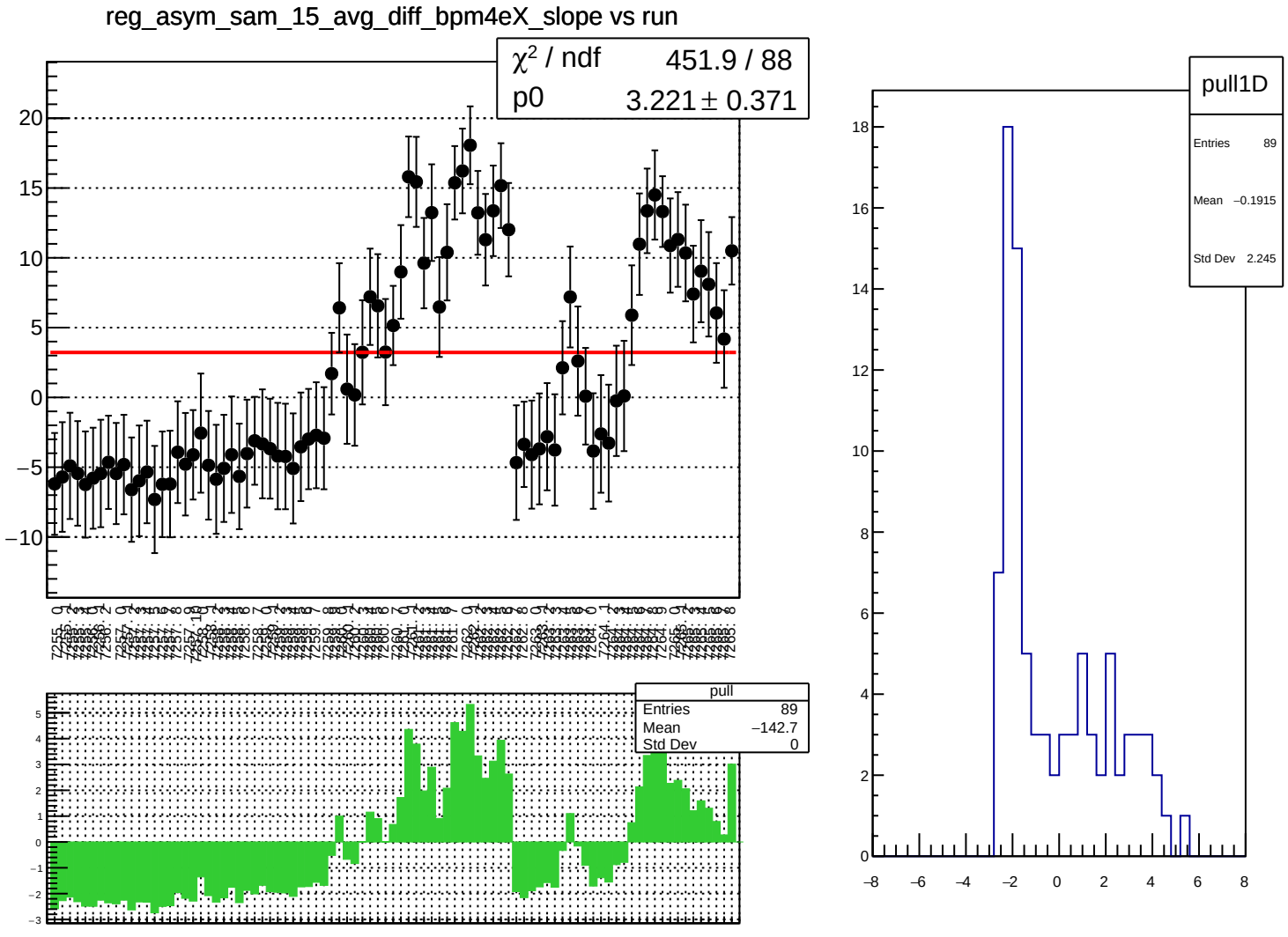

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 28.07 / 88
p0 −19.01 ± 0.03523
pull
Entries 89
Mean 966.5
Std Dev 0

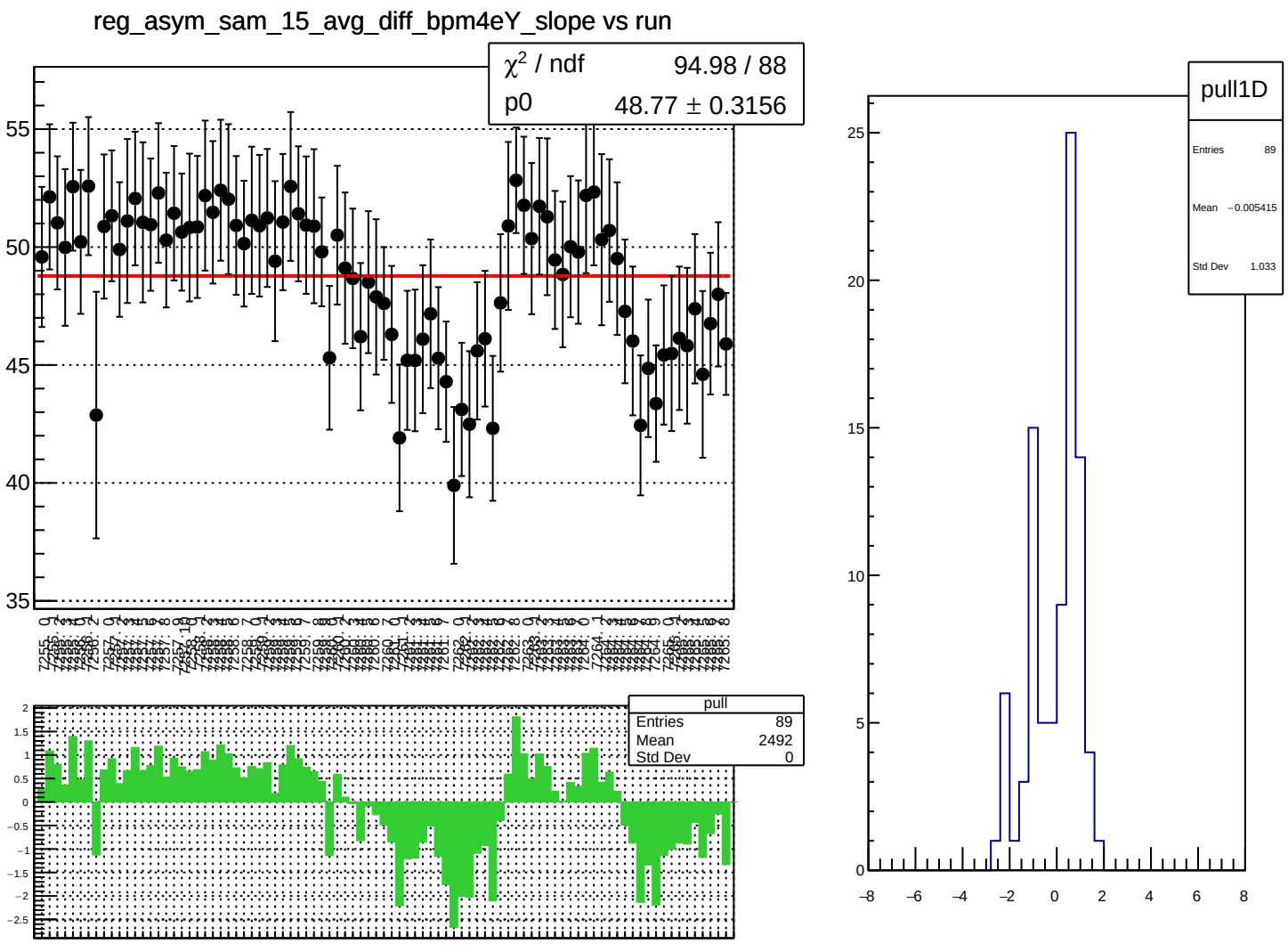

pull1D
Entries 89
Mean 0.002018
Std Dev 0.5616

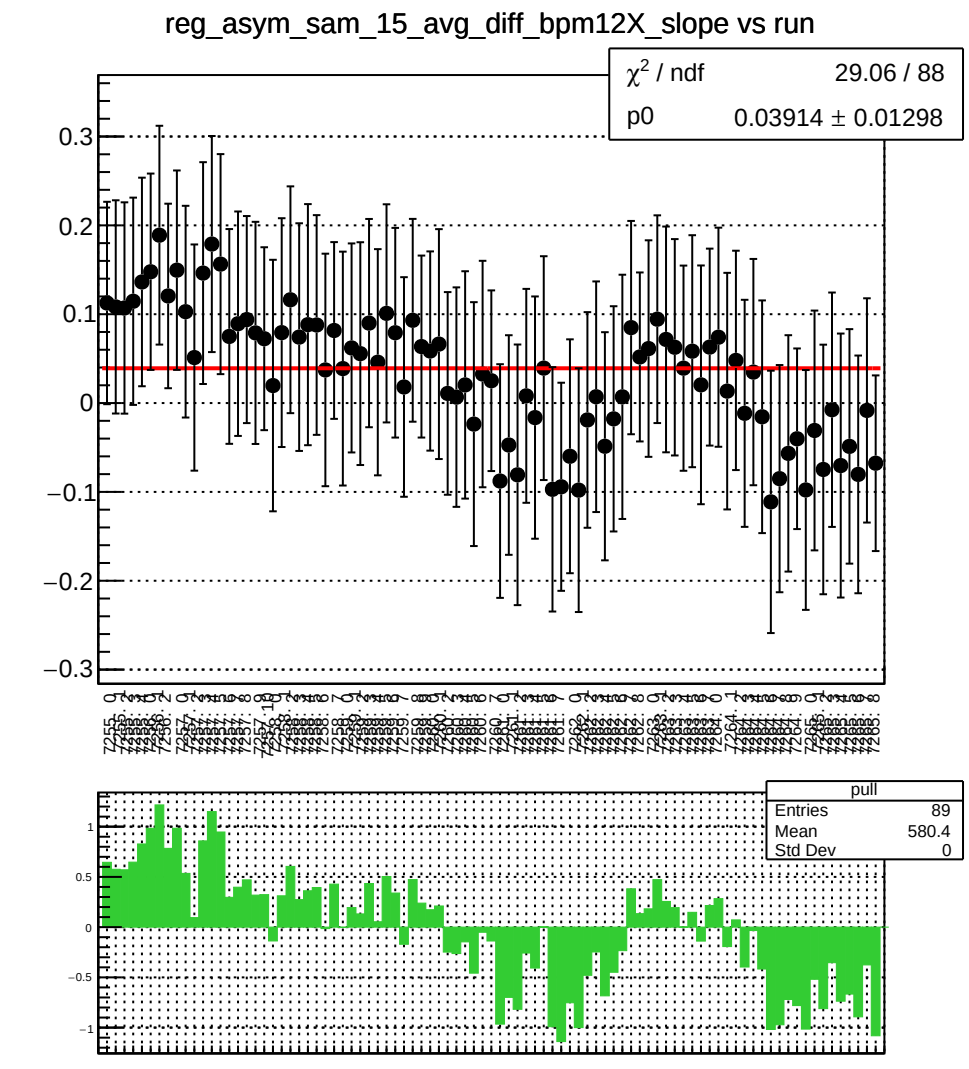

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 469.9 / 88
p0 −9.515 ± 0.3426
pull
Entries 89
Mean −154.9
Std Dev 0

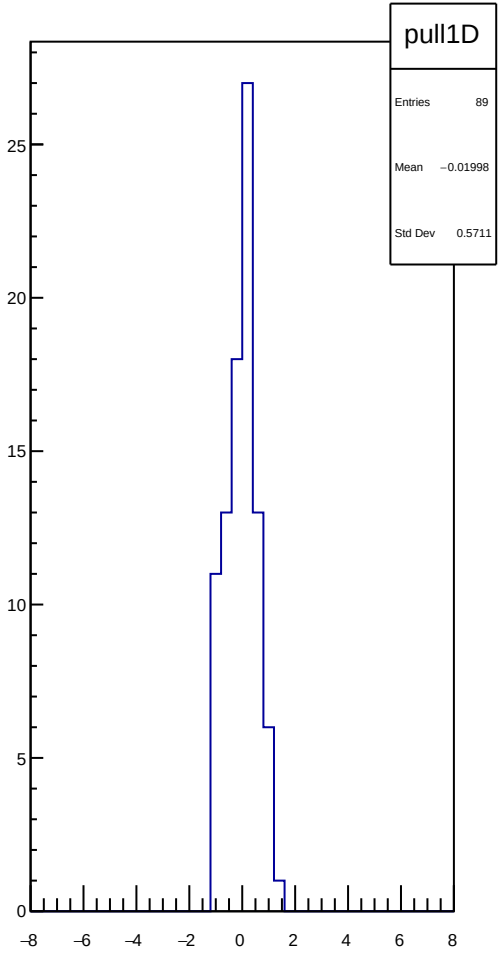

pull1D
Entries 89
Mean 0.1845
Std Dev 2.29

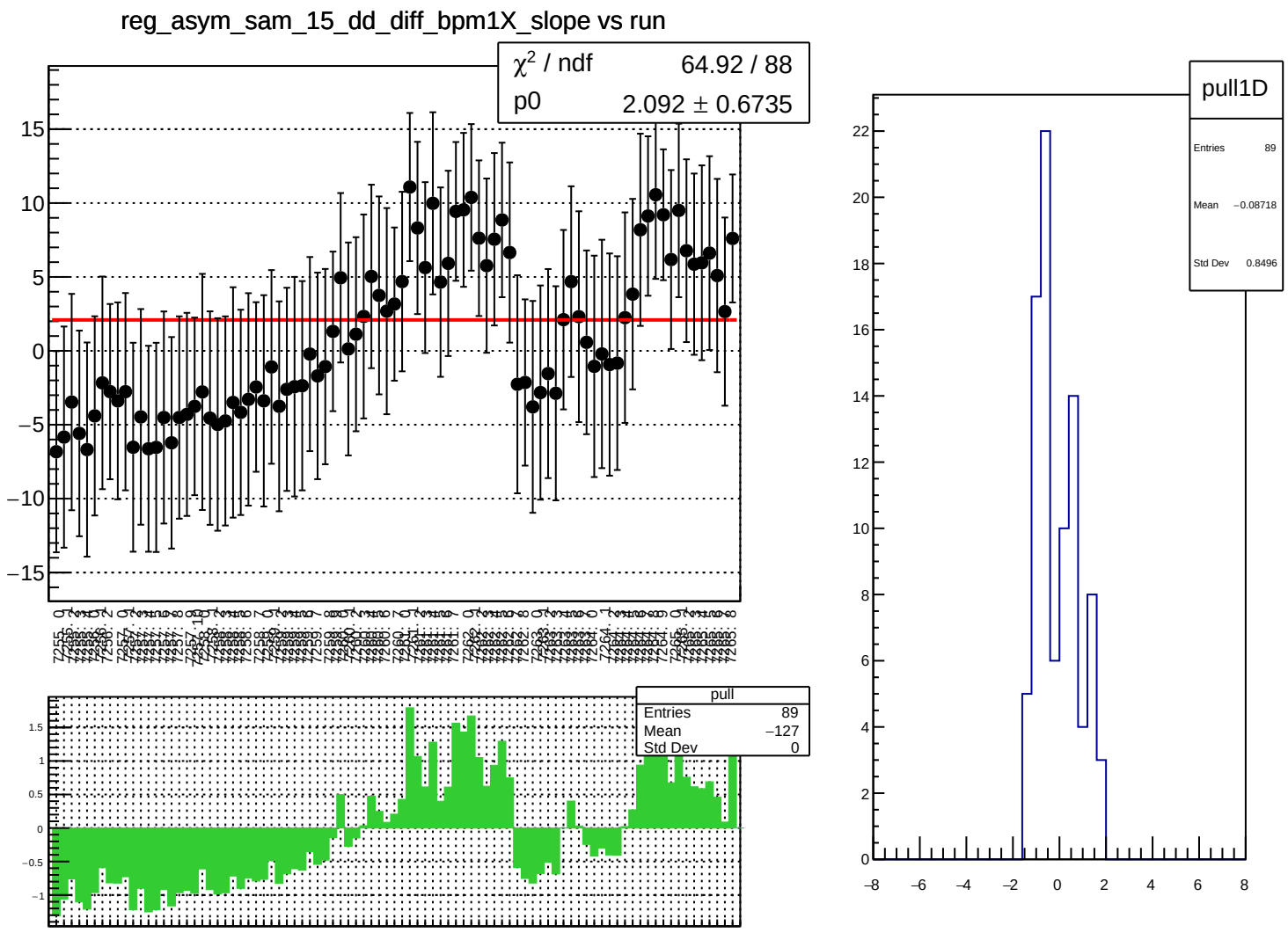

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 160 / 88
p0 2.276 ± 0.3005
pull
Entries 89
Mean 1040
Std Dev 0
pull1D
Entries 89
Mean 0.01909
Std Dev 1.341

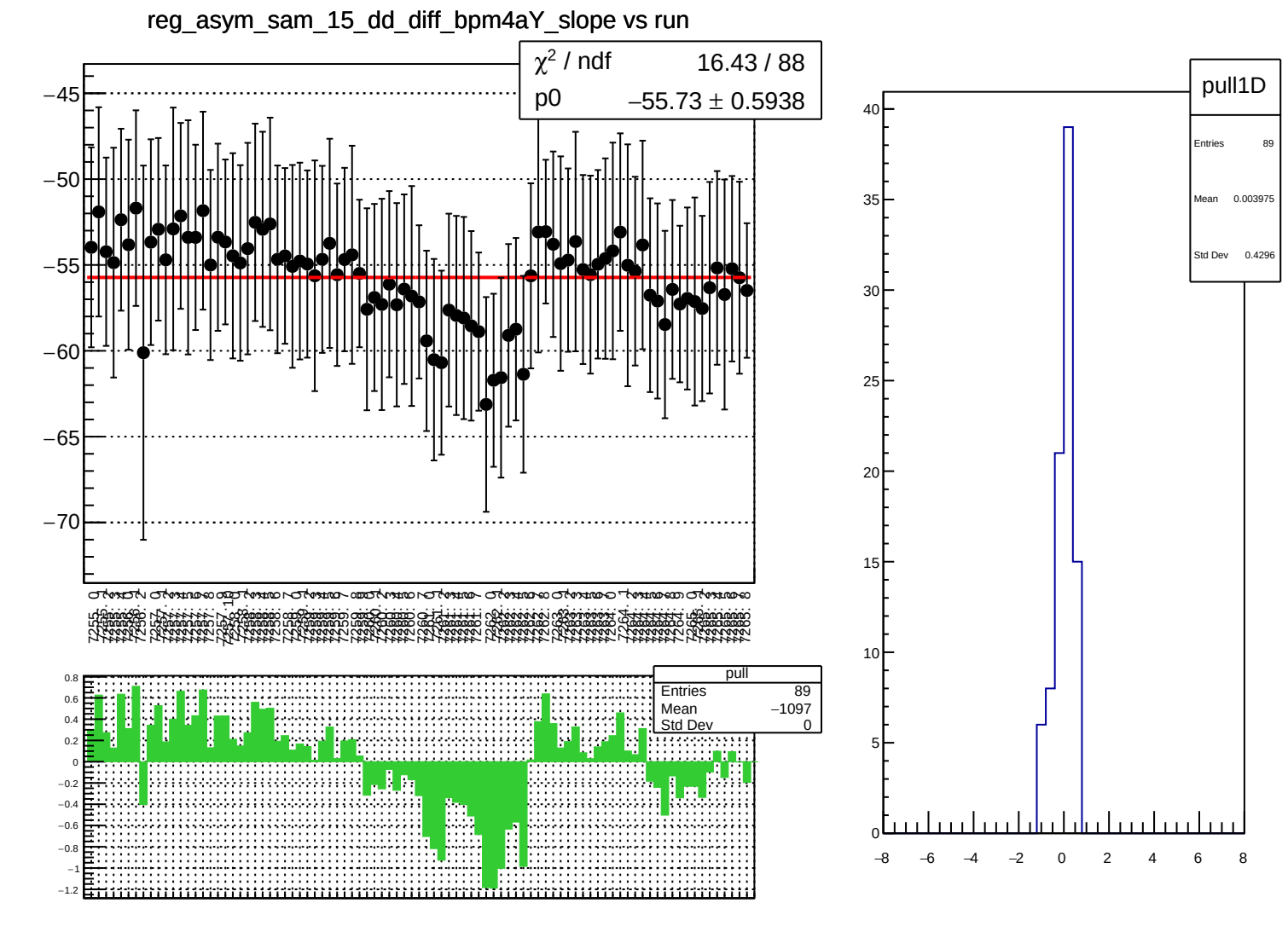

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 451.9 / 88
p0 3.221 ± 0.371
pull
Entries 89
Mean −142.7
Std Dev 0
pull1D
Entries 89
Mean −0.1915
Std Dev 2.245

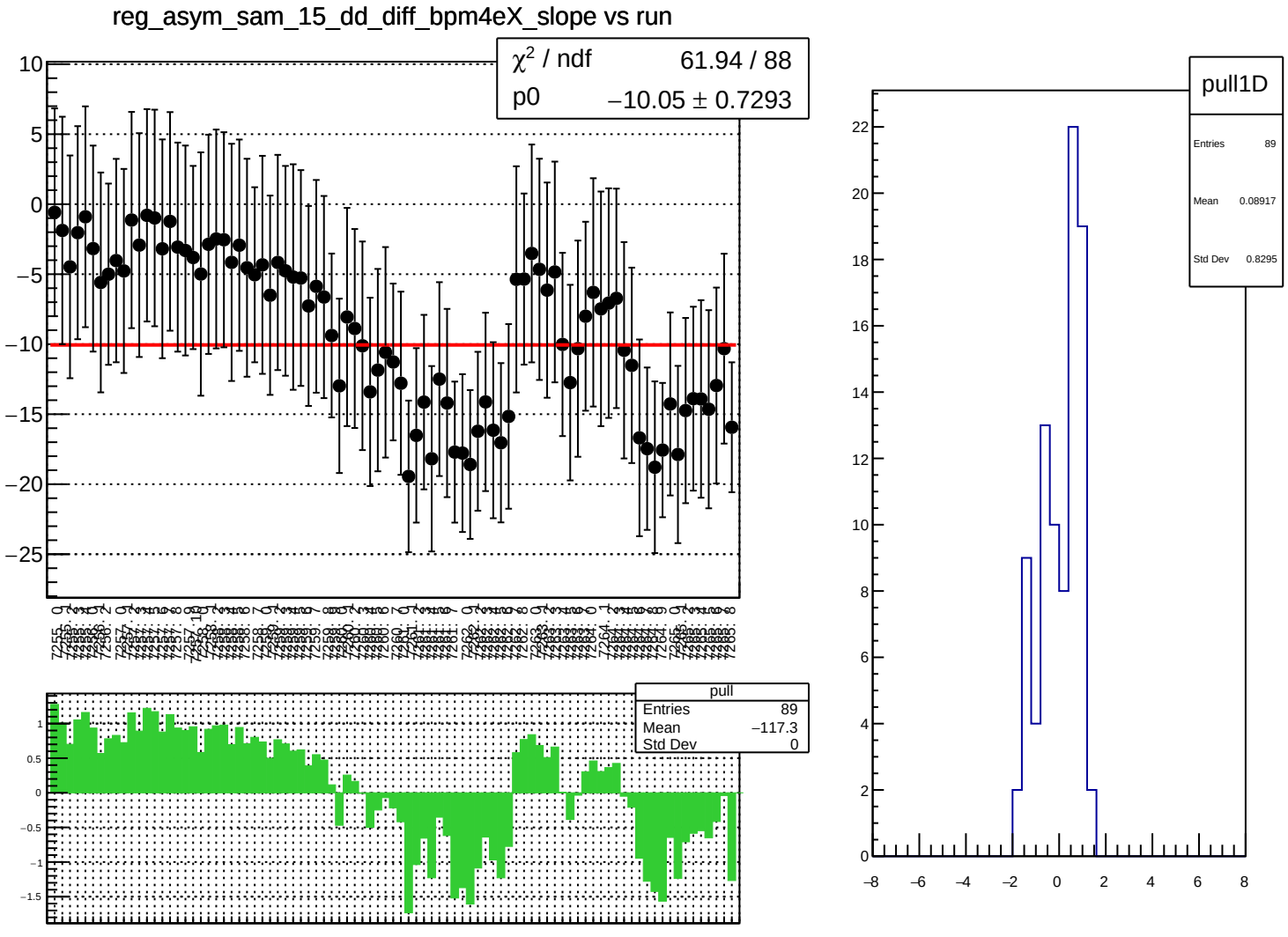

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 94.98 / 88
p0 48.77 ± 0.3156
pull
Entries 89
Mean 2492
Std Dev 0
pull1D
Entries 89
Mean −0.005415
Std Dev 1.033

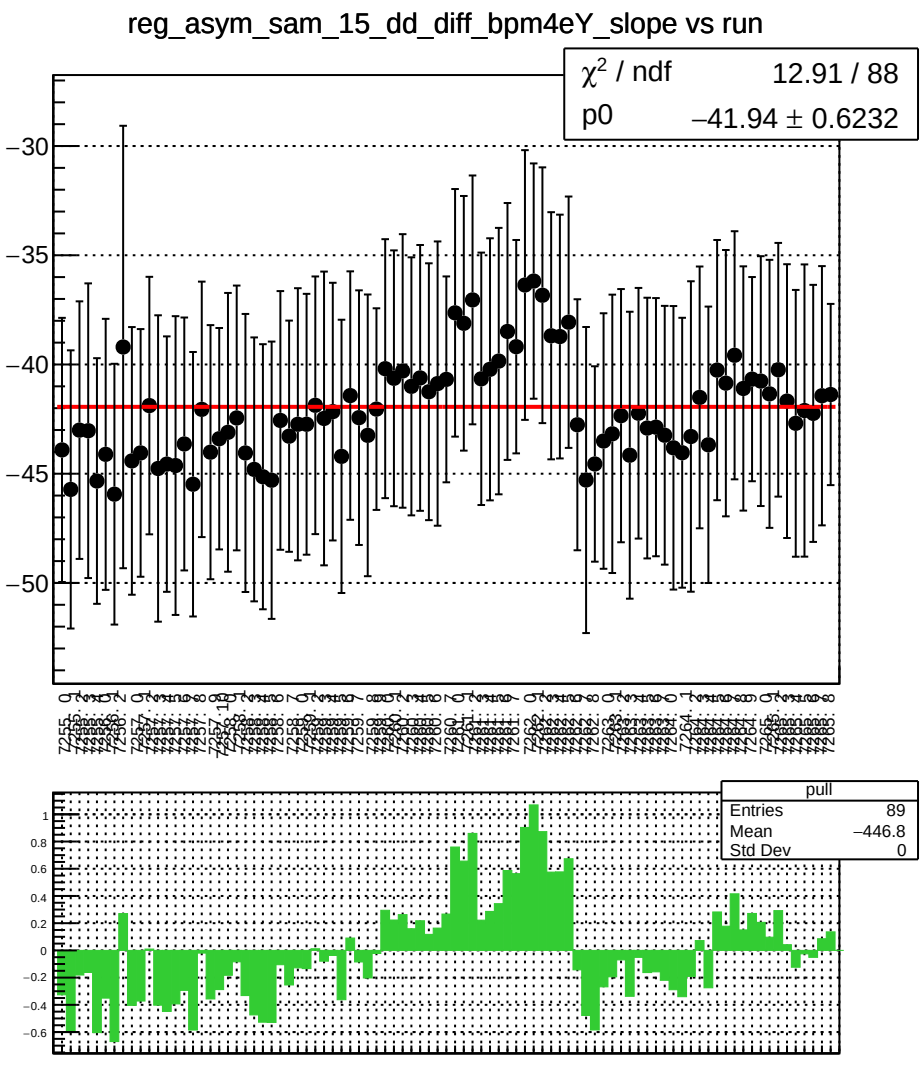

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 29.06 / 88
p0 0.03914 ± 0.01298
pull
Entries 89
Mean 580.4
Std Dev 0

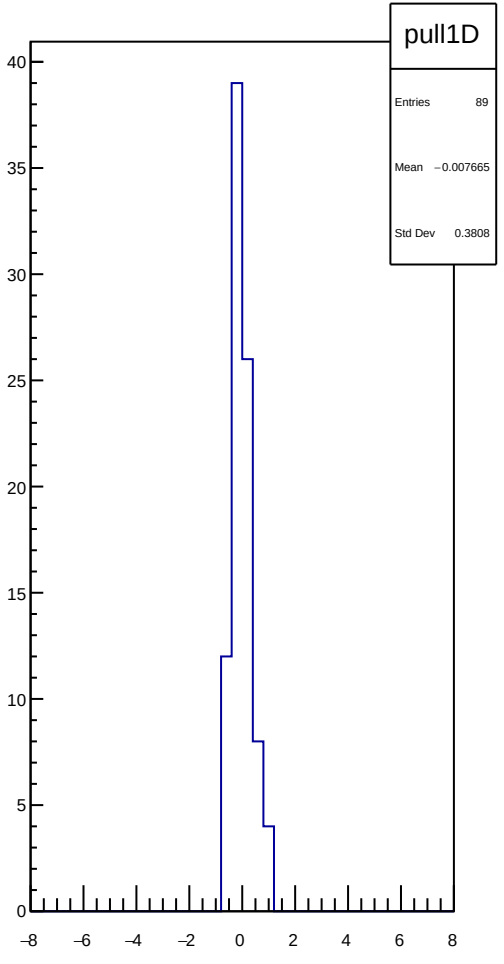

pull1D
Entries 89
Mean −0.01998
Std Dev 0.5711

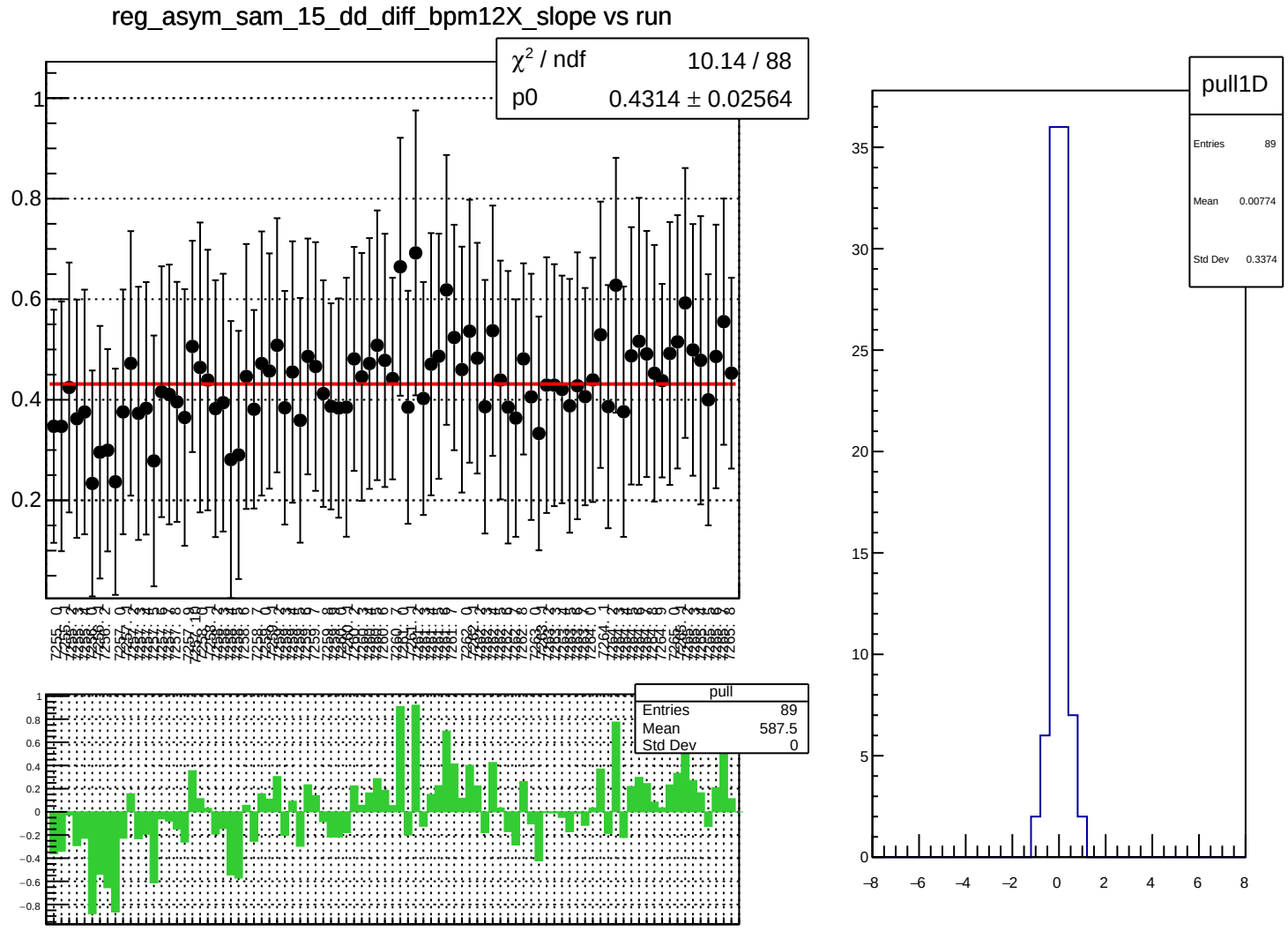

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 64.92 / 88
p0 2.092 ± 0.6735
pull
Entries 89
Mean −127
Std Dev 0
pull1D
Entries 89
Mean −0.08718
Std Dev 0.8496

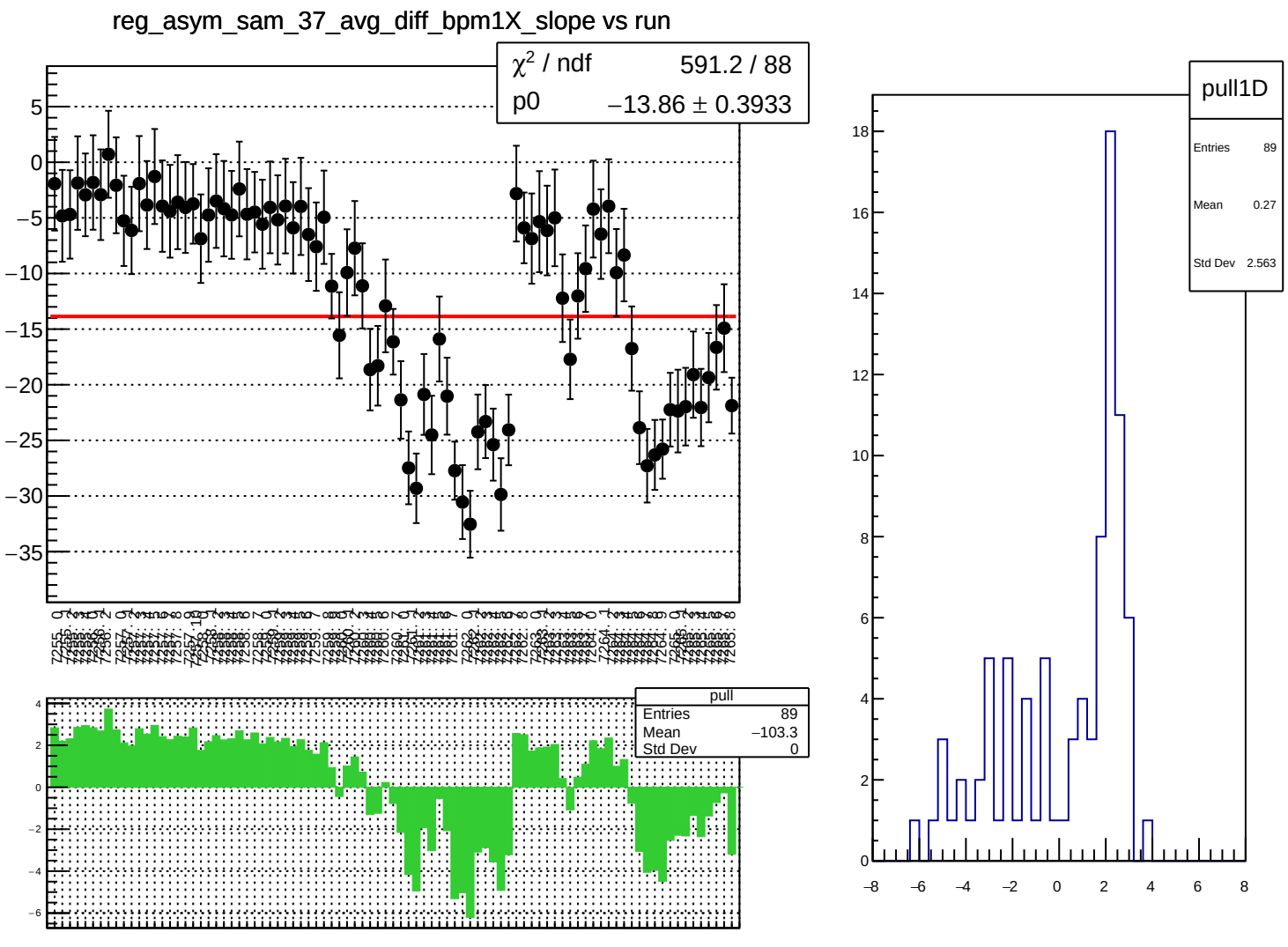

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.43 / 88
p0 −55.73 ± 0.5938
pull
Entries 89
Mean −1097
Std Dev 0
pull1D
Entries 89
Mean 0.003975
Std Dev 0.4296

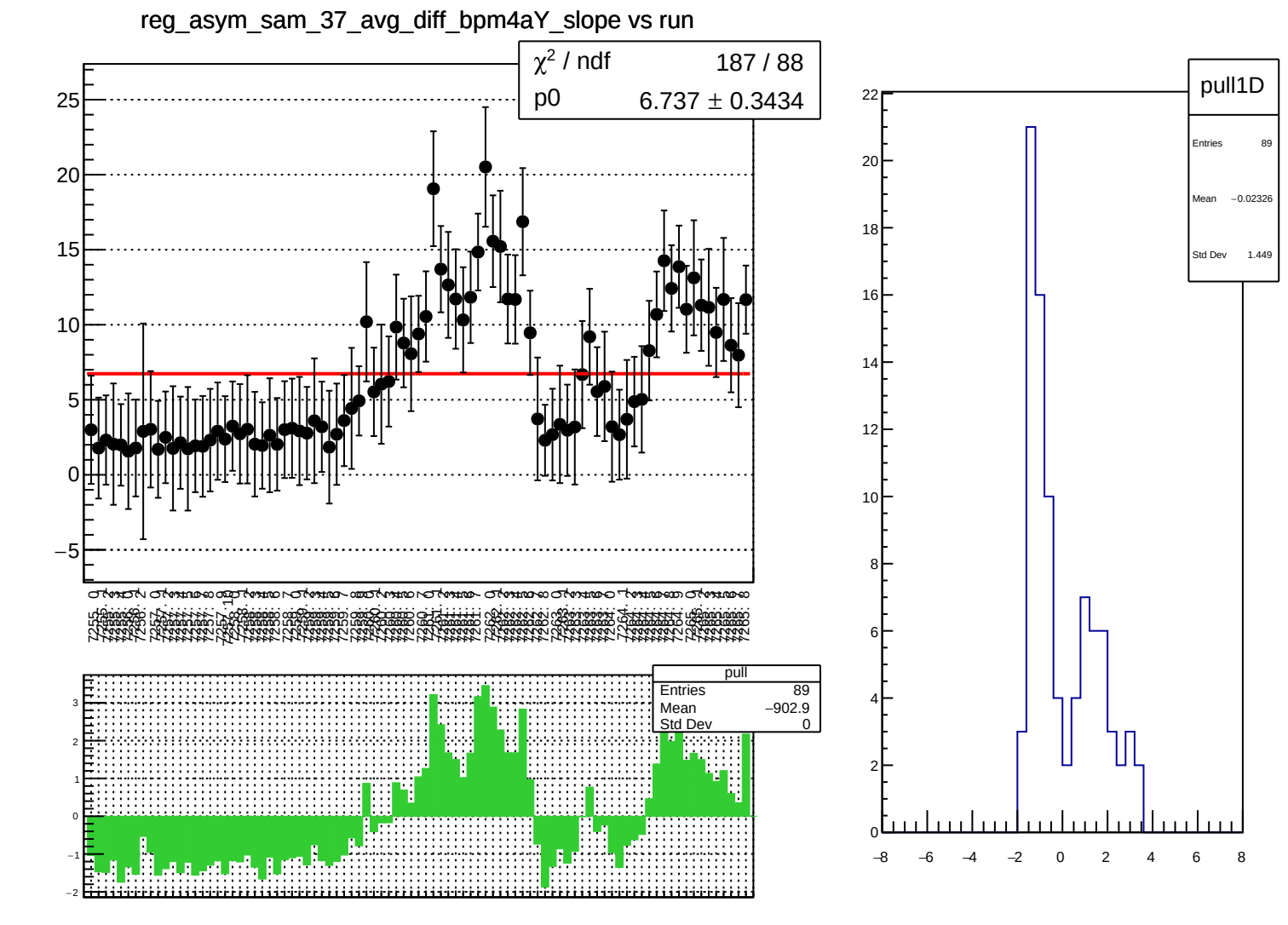

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.94 / 88
p0 −10.05 ± 0.7293
pull
Entries 89
Mean −117.3
Std Dev 0
pull1D
Entries 89
Mean 0.08917
Std Dev 0.8295

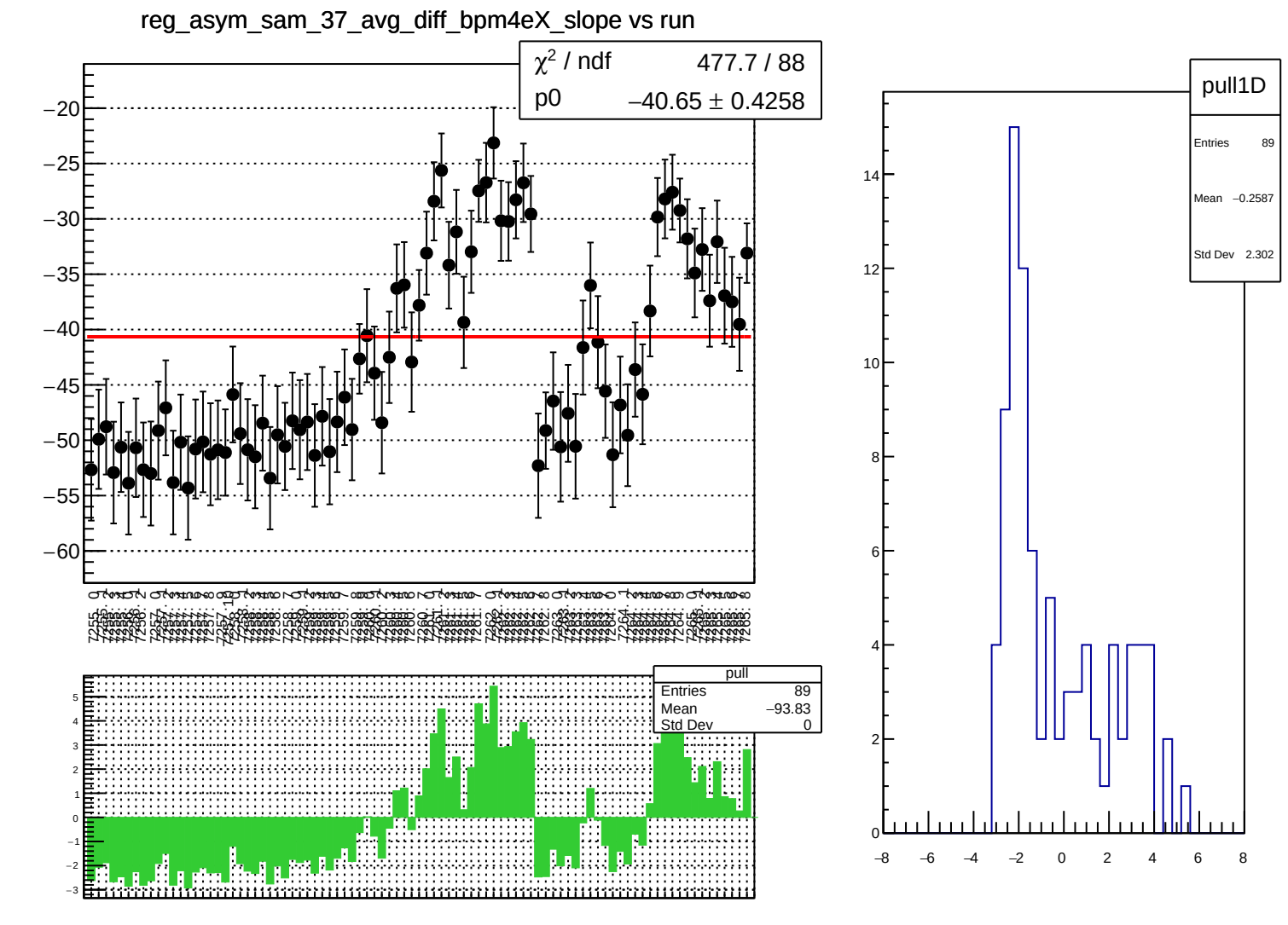

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.91 / 88
p0 −41.94 ± 0.6232
pull
Entries 89
Mean −446.8
Std Dev 0

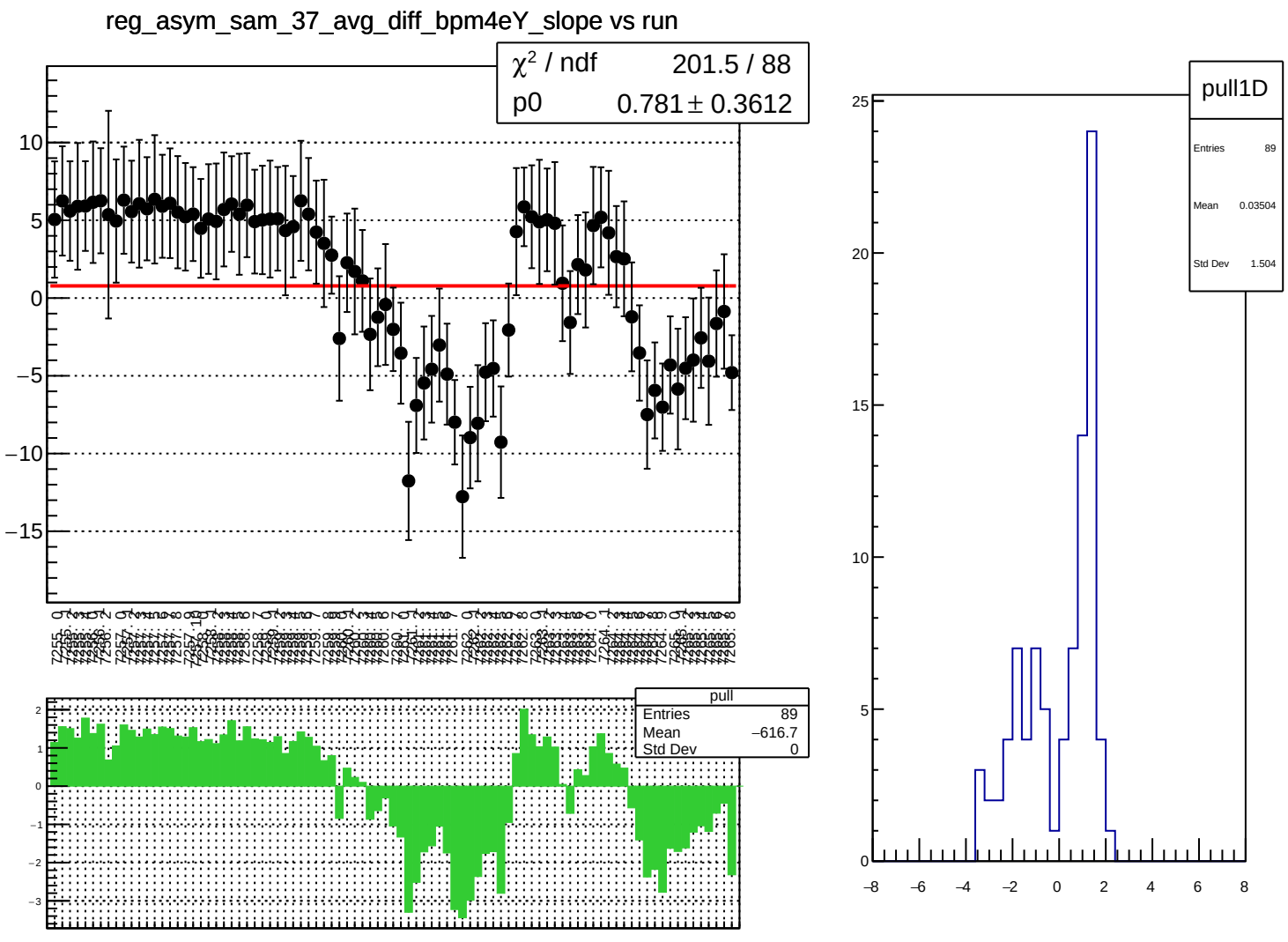

pull1D
Entries 89
Mean −0.007665
Std Dev 0.3808

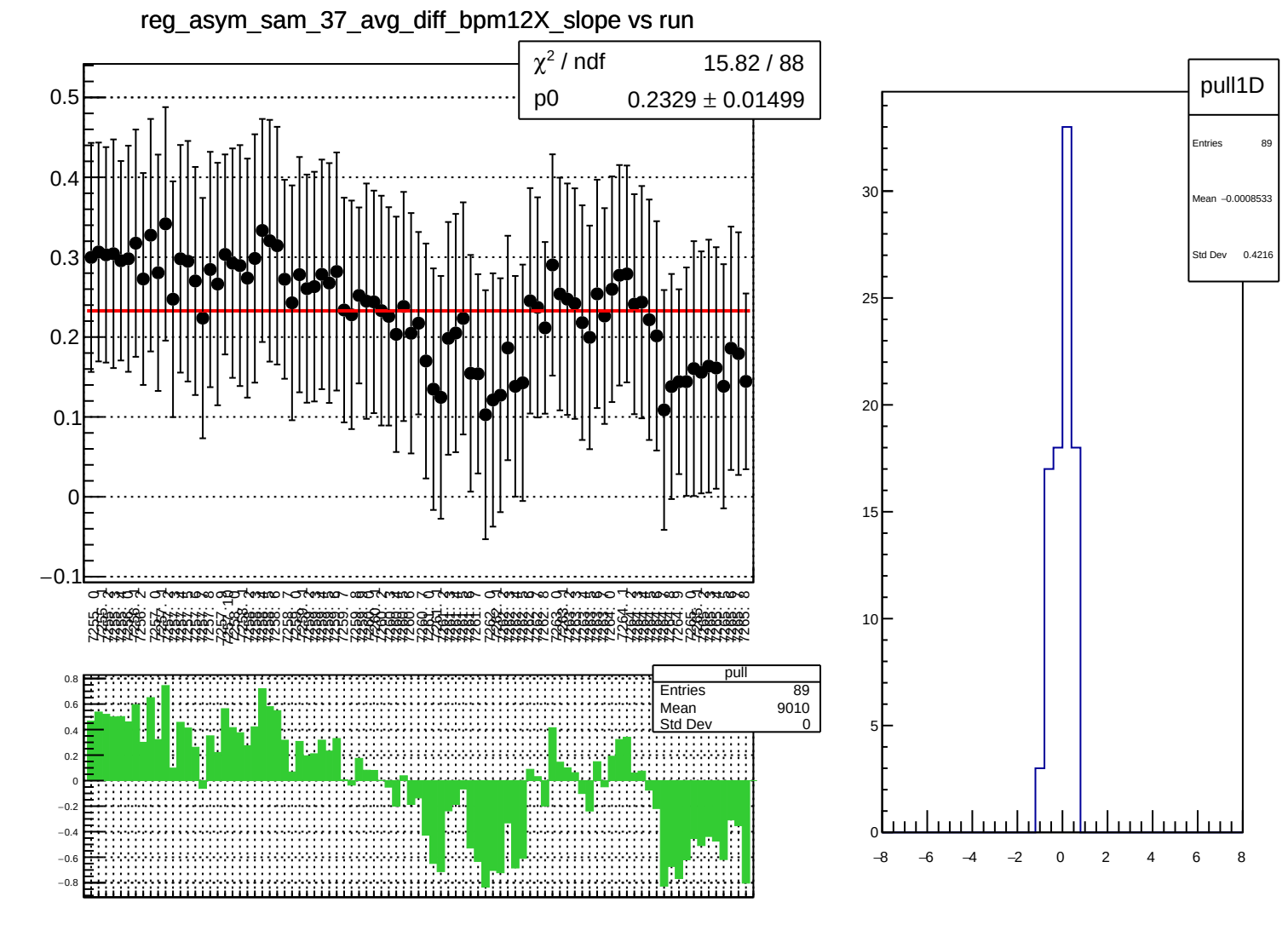

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 10.14 / 88
p0 0.4314 ± 0.02564
pull
Entries 89
Mean 587.5
Std Dev 0
pull1D
Entries 89
Mean 0.00774
Std Dev 0.3374

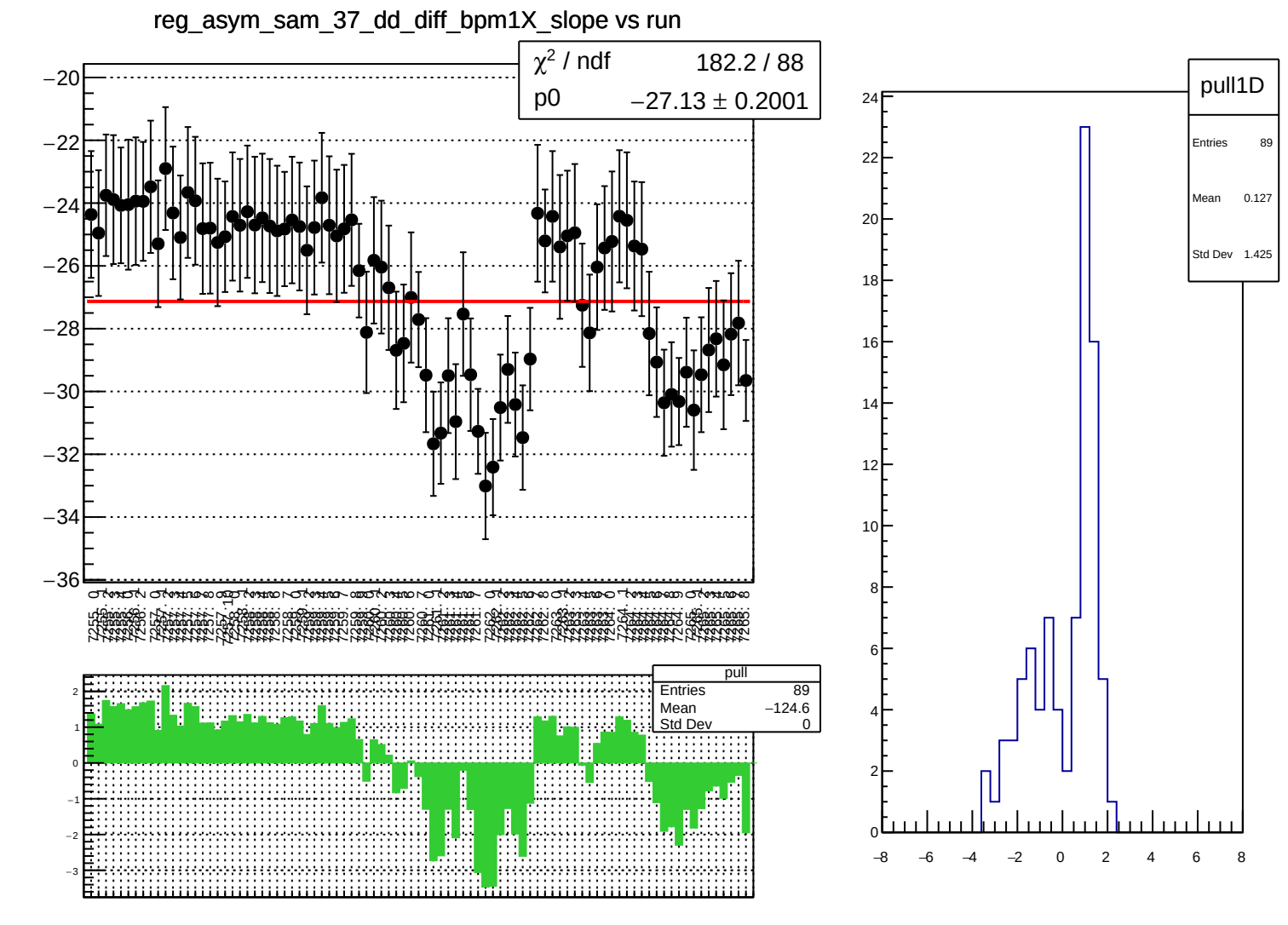

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 591.2 / 88
p0 −13.86 ± 0.3933
pull
Entries 89
Mean −103.3
Std Dev 0
pull1D
Entries 89
Mean 0.27
Std Dev 2.563

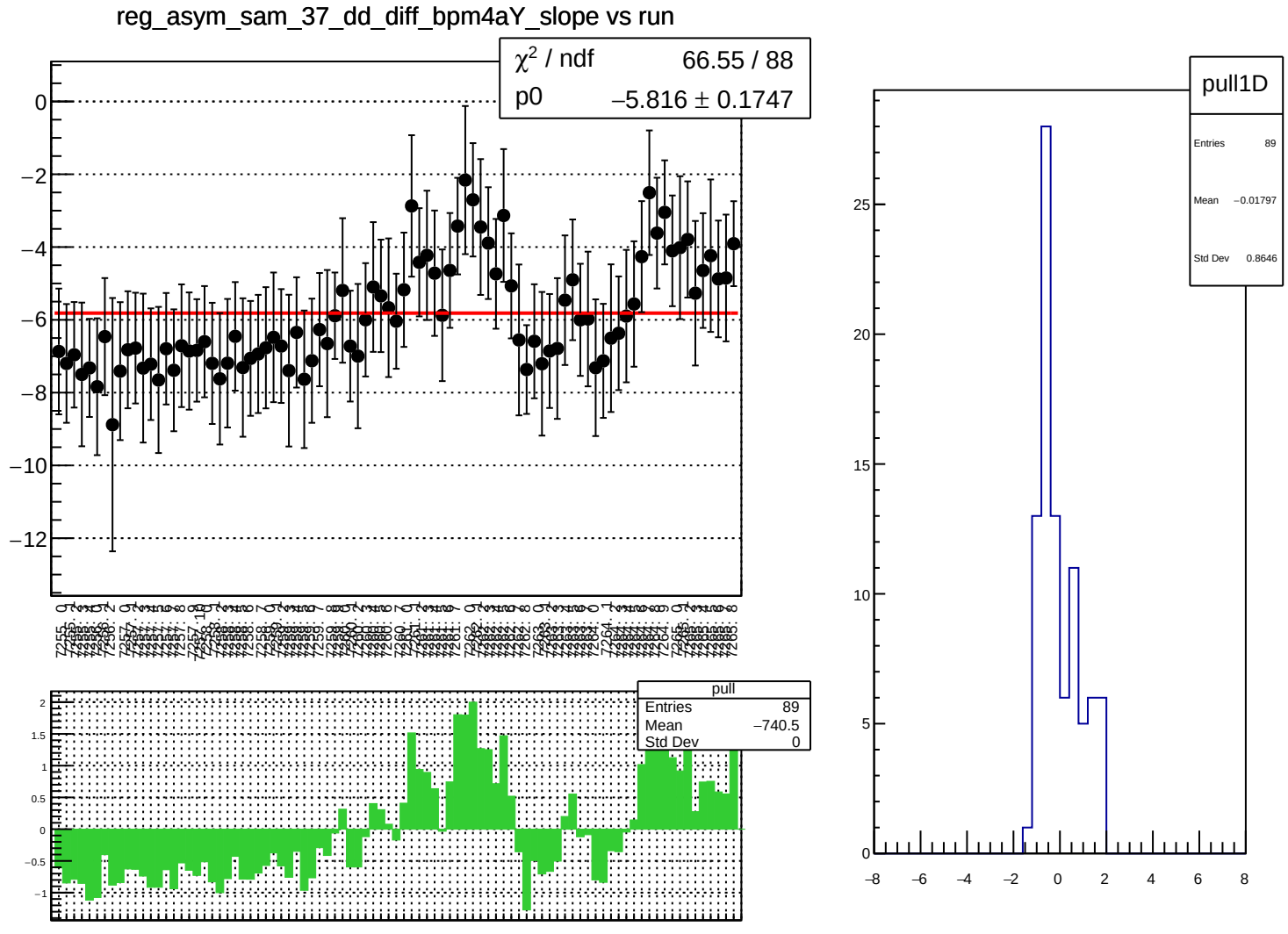

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 187 / 88
p0 6.737 ± 0.3434
pull
Entries 89
Mean −902.9
Std Dev 0
pull1D
Entries 89
Mean −0.02326
Std Dev 1.449

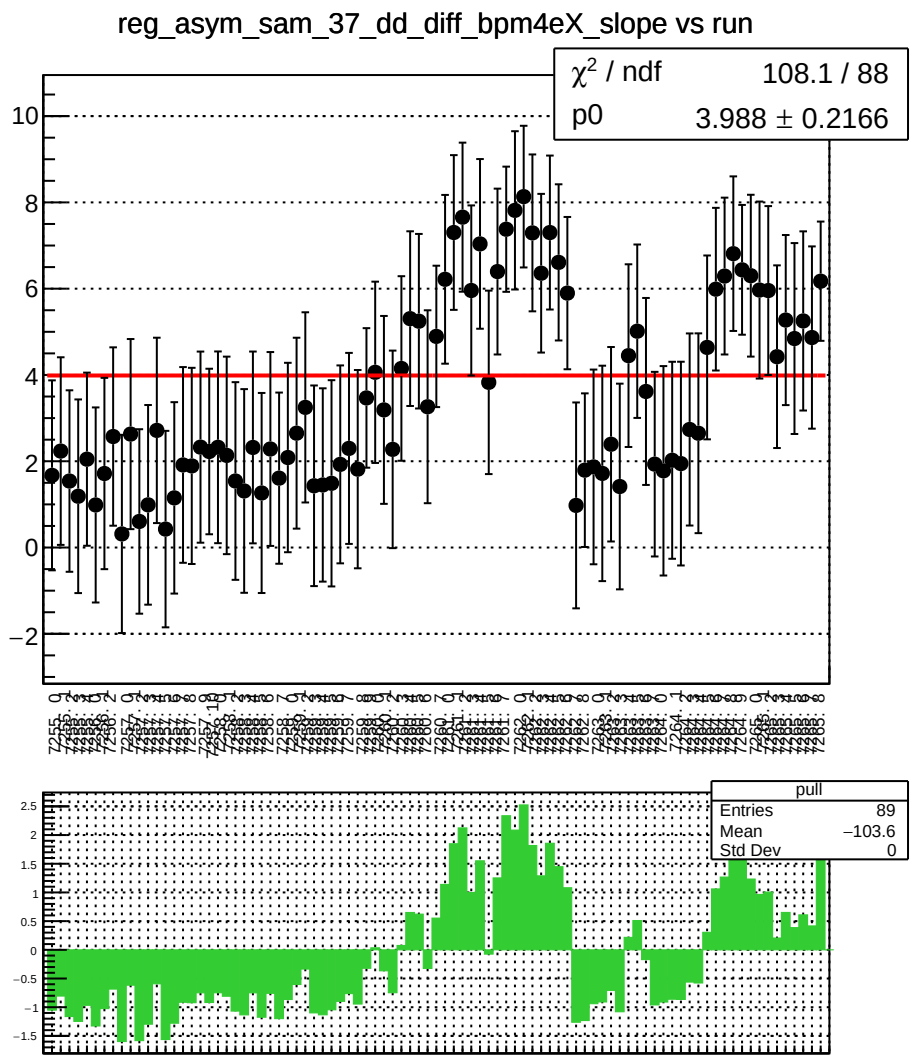

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 477.7 / 88
p0 −40.65 ± 0.4258
pull
Entries 89
Mean −93.83
Std Dev 0
pull1D
Entries 89
Mean −0.2587
Std Dev 2.302

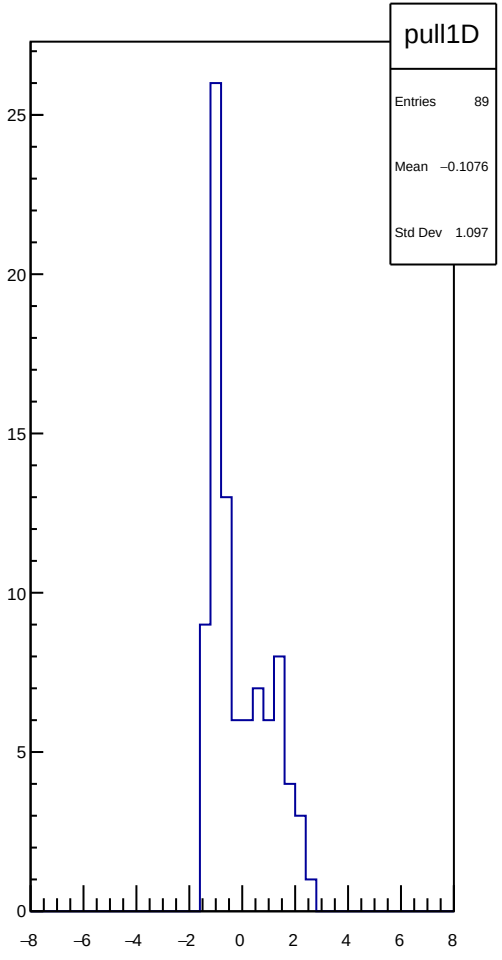

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 201.5 / 88
p0 0.781 ± 0.3612
pull
Entries 89
Mean −616.7
Std Dev 0
pull1D
Entries 89
Mean 0.03504
Std Dev 1.504

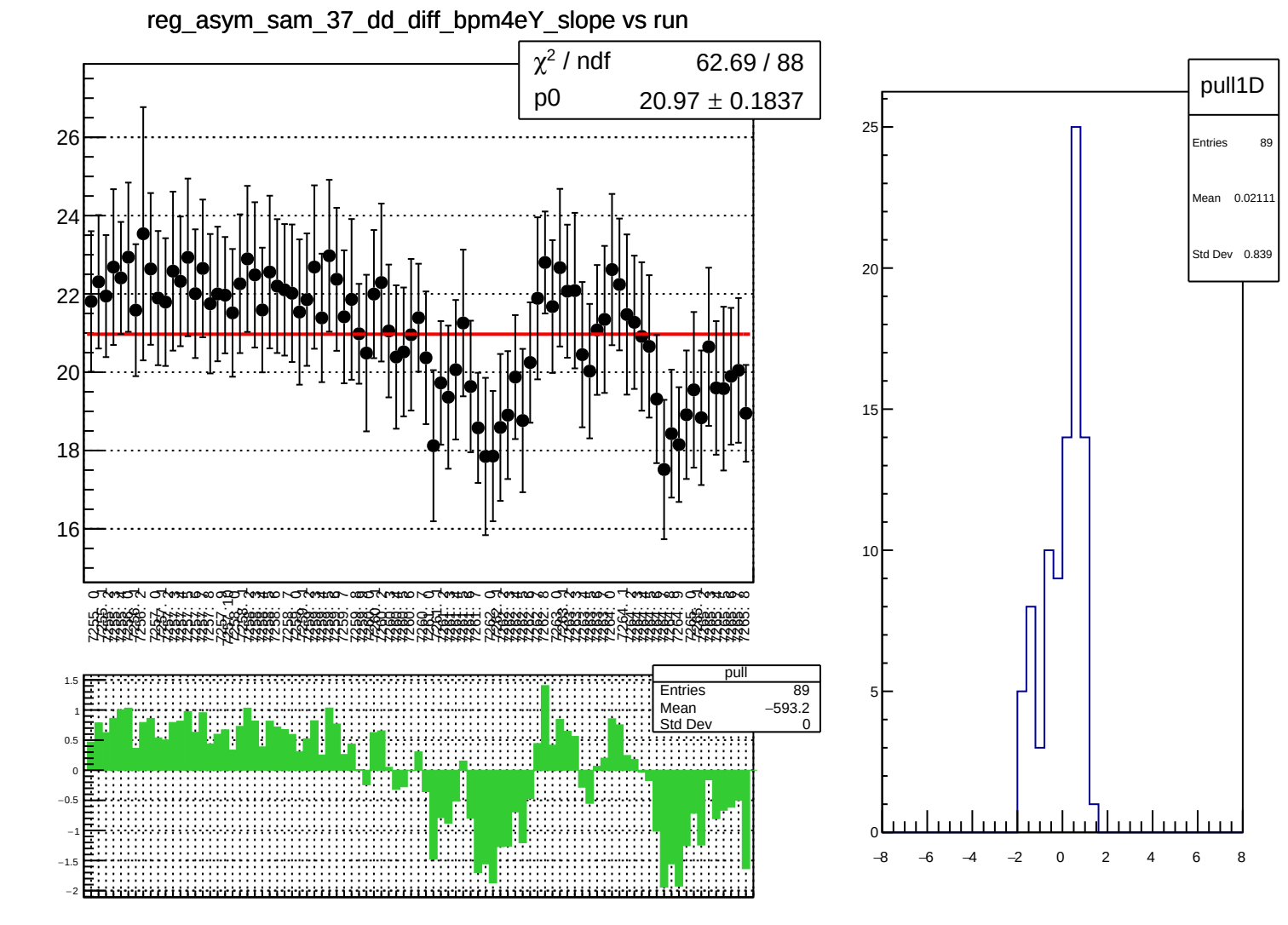

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 15.82 / 88
p0 0.2329 ± 0.01499
pull
Entries 89
Mean 9010
Std Dev 0
pull1D
Entries 89
Mean −0.0008533
Std Dev 0.4216

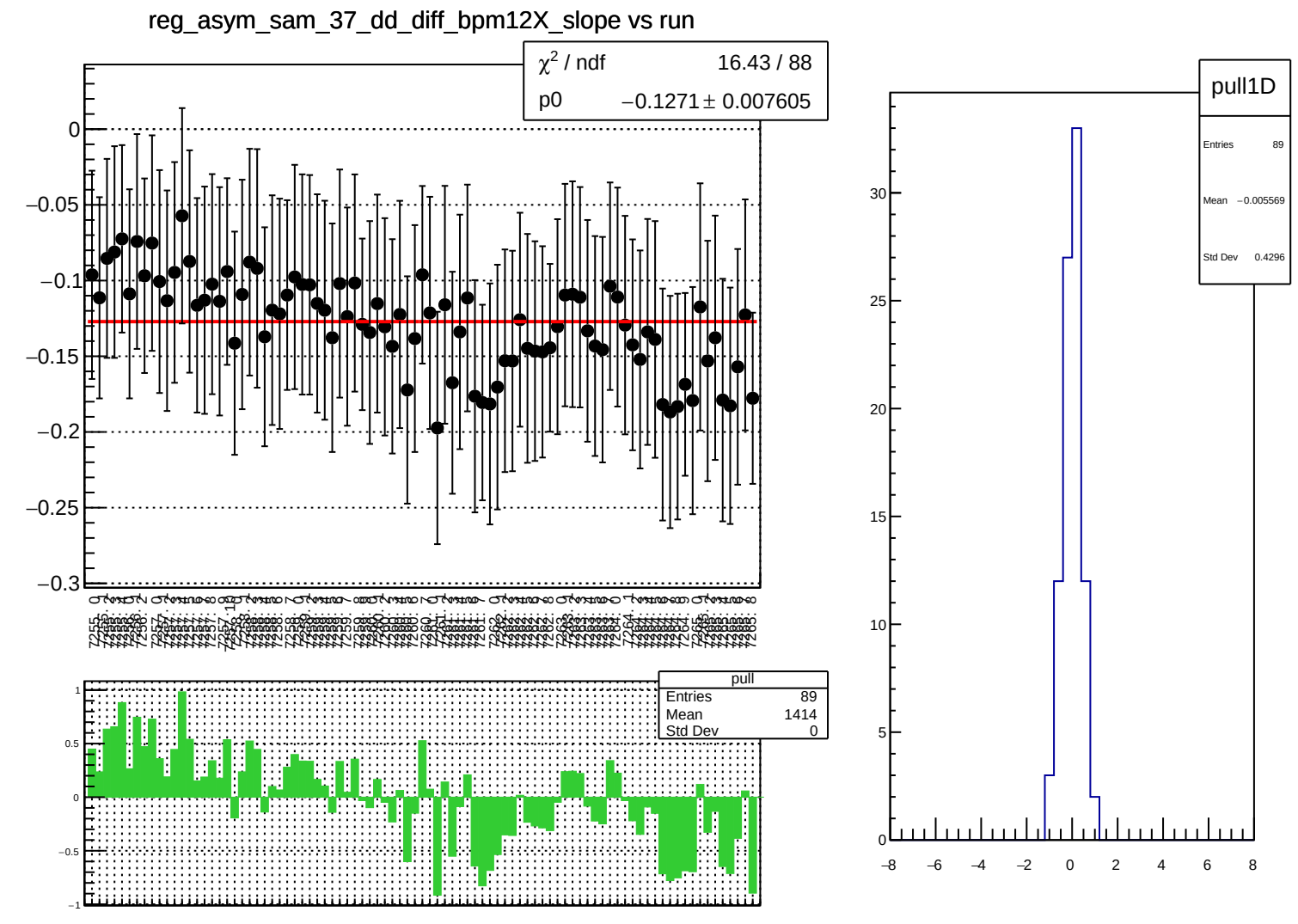

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 182.2 / 88
p0 −27.13 ± 0.2001
pull
Entries 89
Mean −124.6
Std Dev 0
pull1D
Entries 89
Mean 0.127
Std Dev 1.425

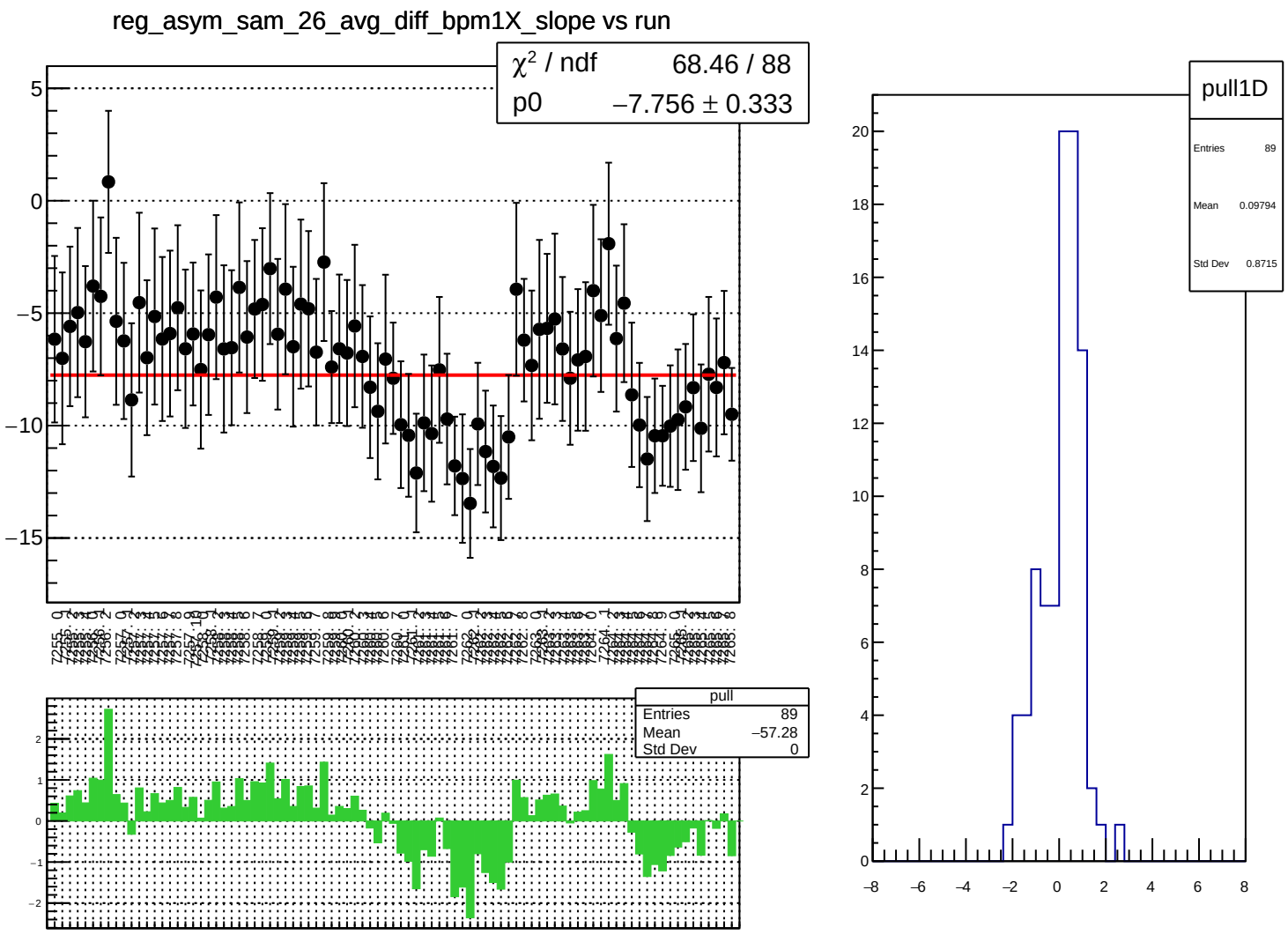

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 66.55 / 88
p0 −5.816 ± 0.1747
pull
Entries 89
Mean −740.5
Std Dev 0
pull1D
Entries 89
Mean −0.01797
Std Dev 0.8646

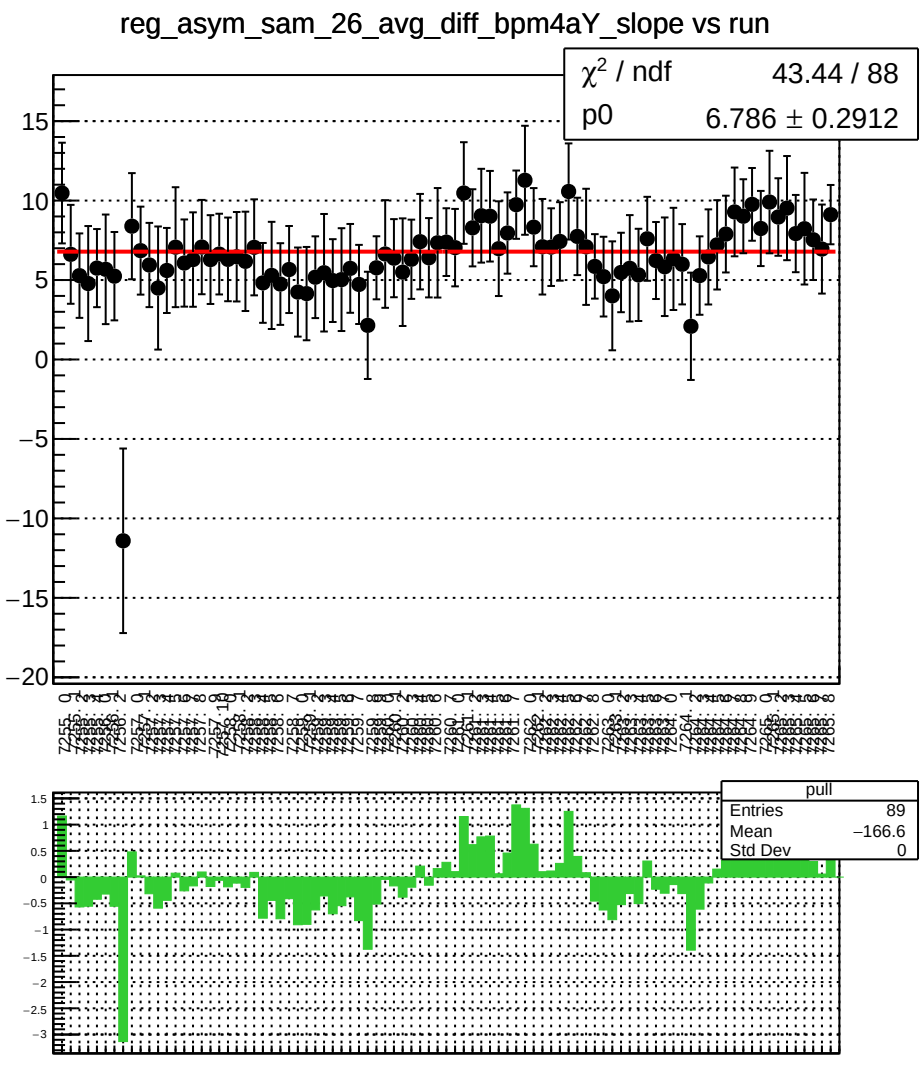

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 108.1 / 88
p0 3.988 ± 0.2166
pull
Entries 89
Mean −103.6
Std Dev 0

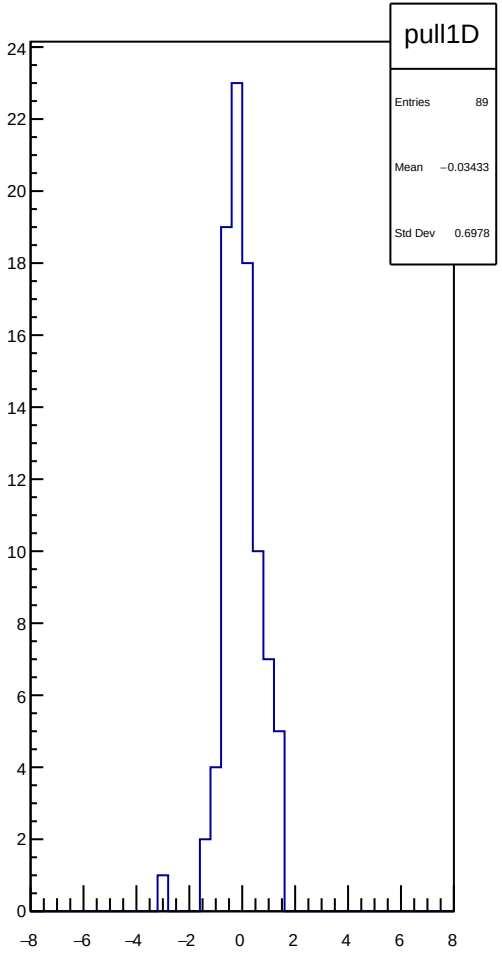

pull1D
Entries 89
Mean −0.1076
Std Dev 1.097

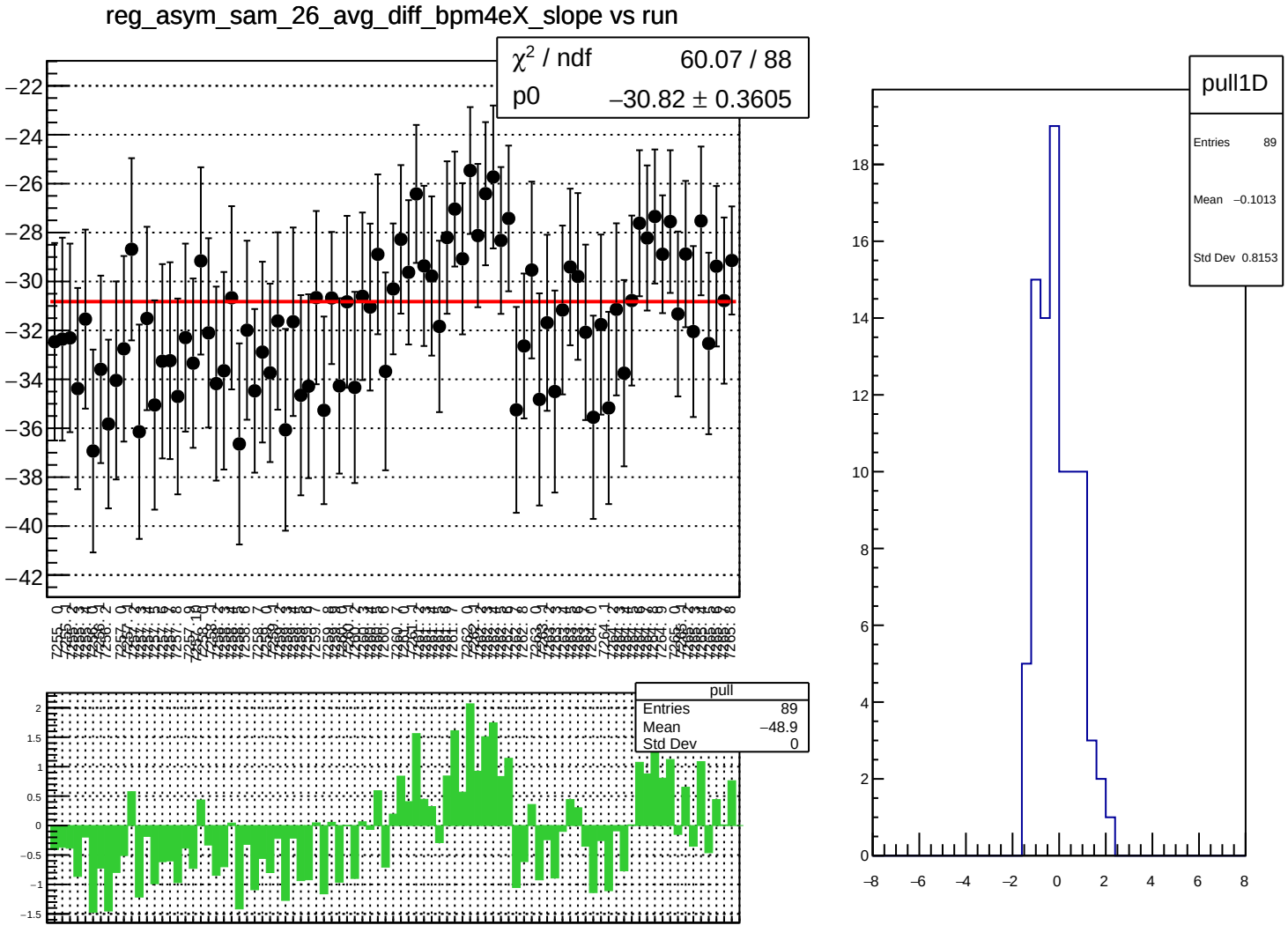

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.69 / 88
p0 20.97 ± 0.1837
pull
Entries 89
Mean −593.2
Std Dev 0
pull1D
Entries 89
Mean 0.02111
Std Dev 0.839

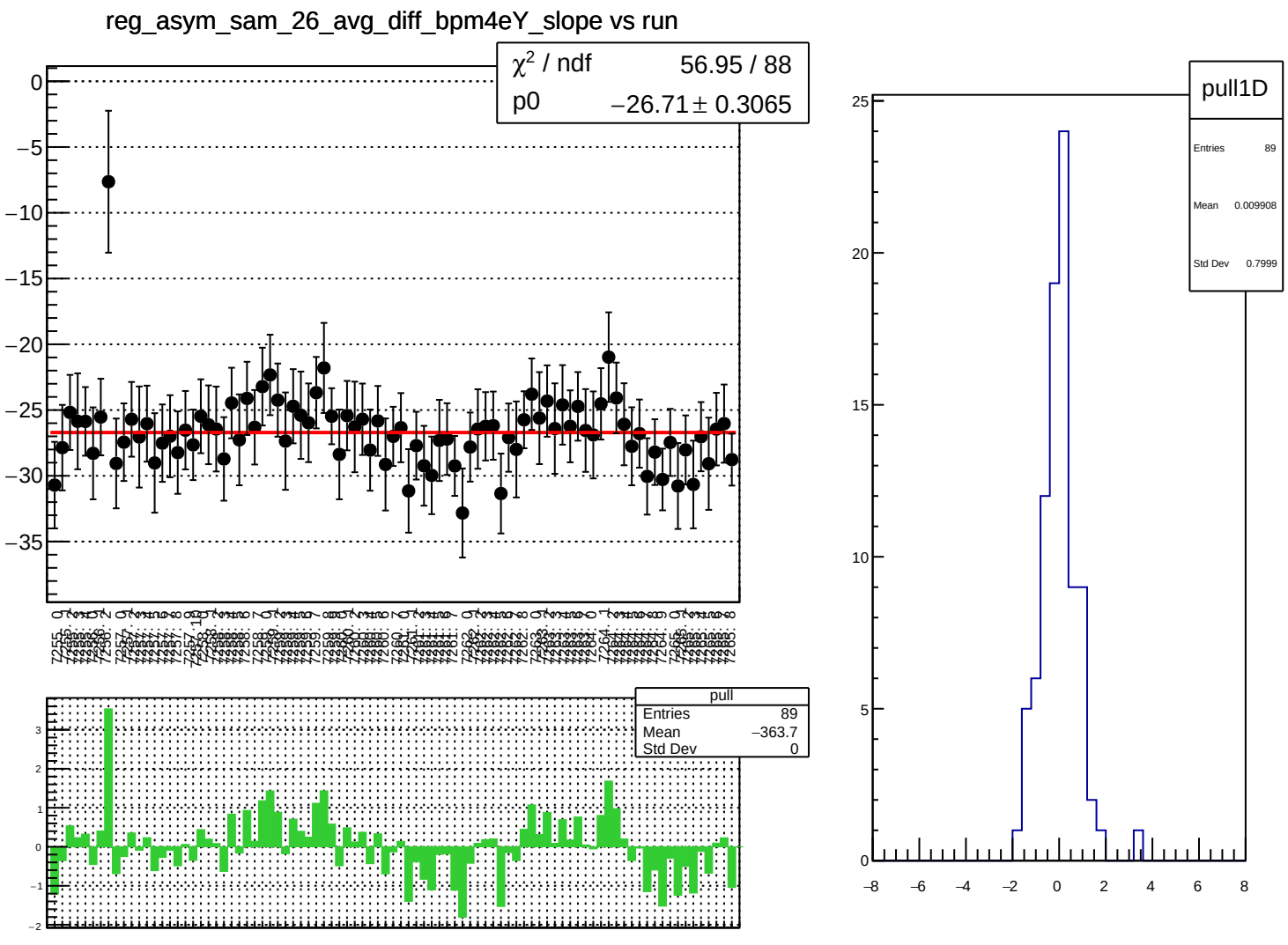

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 16.43 / 88
p0 −0.1271 ± 0.007605
pull
Entries 89
Mean 1414
Std Dev 0
pull1D
Entries 89
Mean −0.005569
Std Dev 0.4296

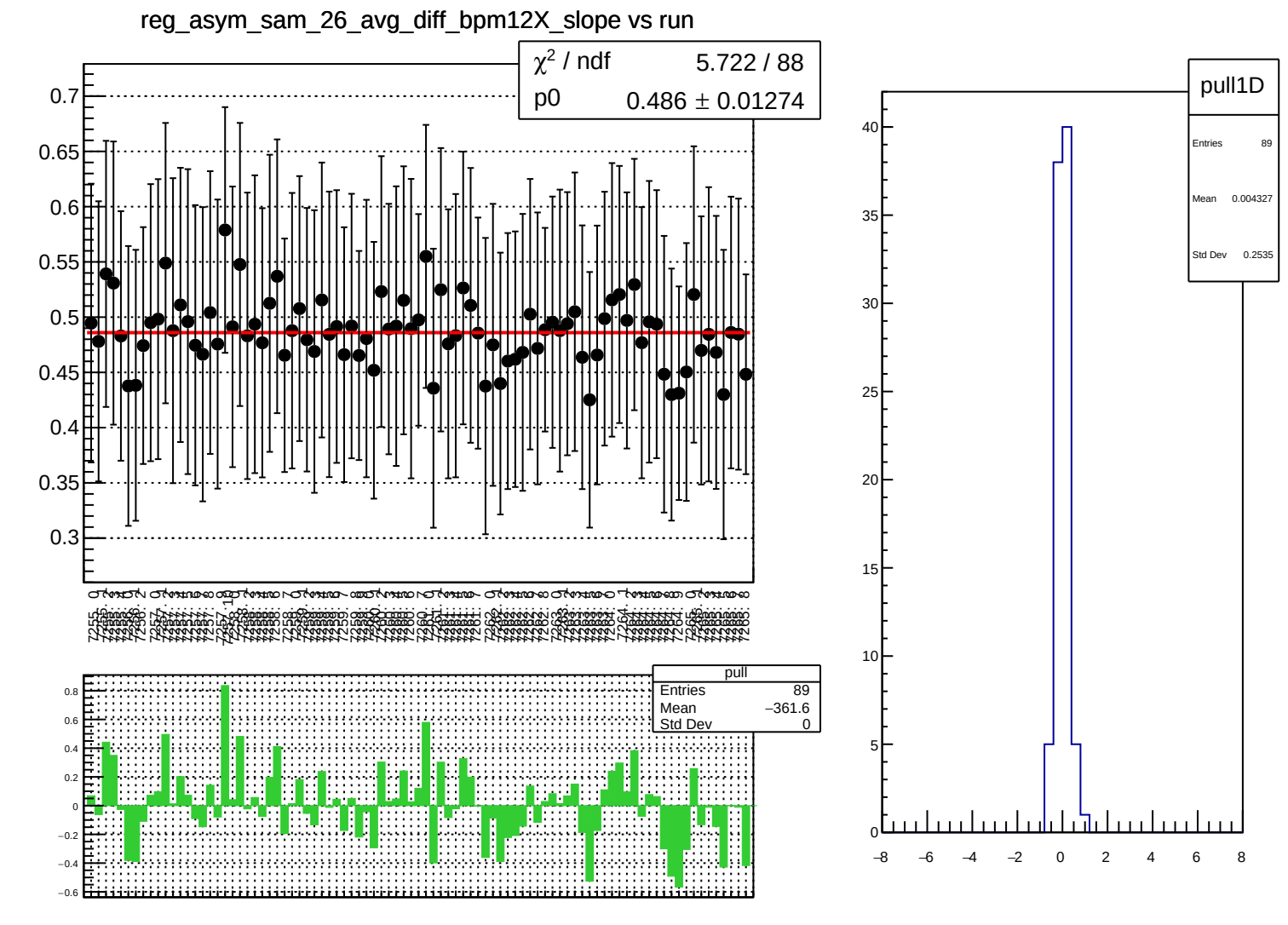

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 68.46 / 88
p0 −7.756 ± 0.333
pull
Entries 89
Mean −57.28
Std Dev 0
pull1D
Entries 89
Mean 0.09794
Std Dev 0.8715

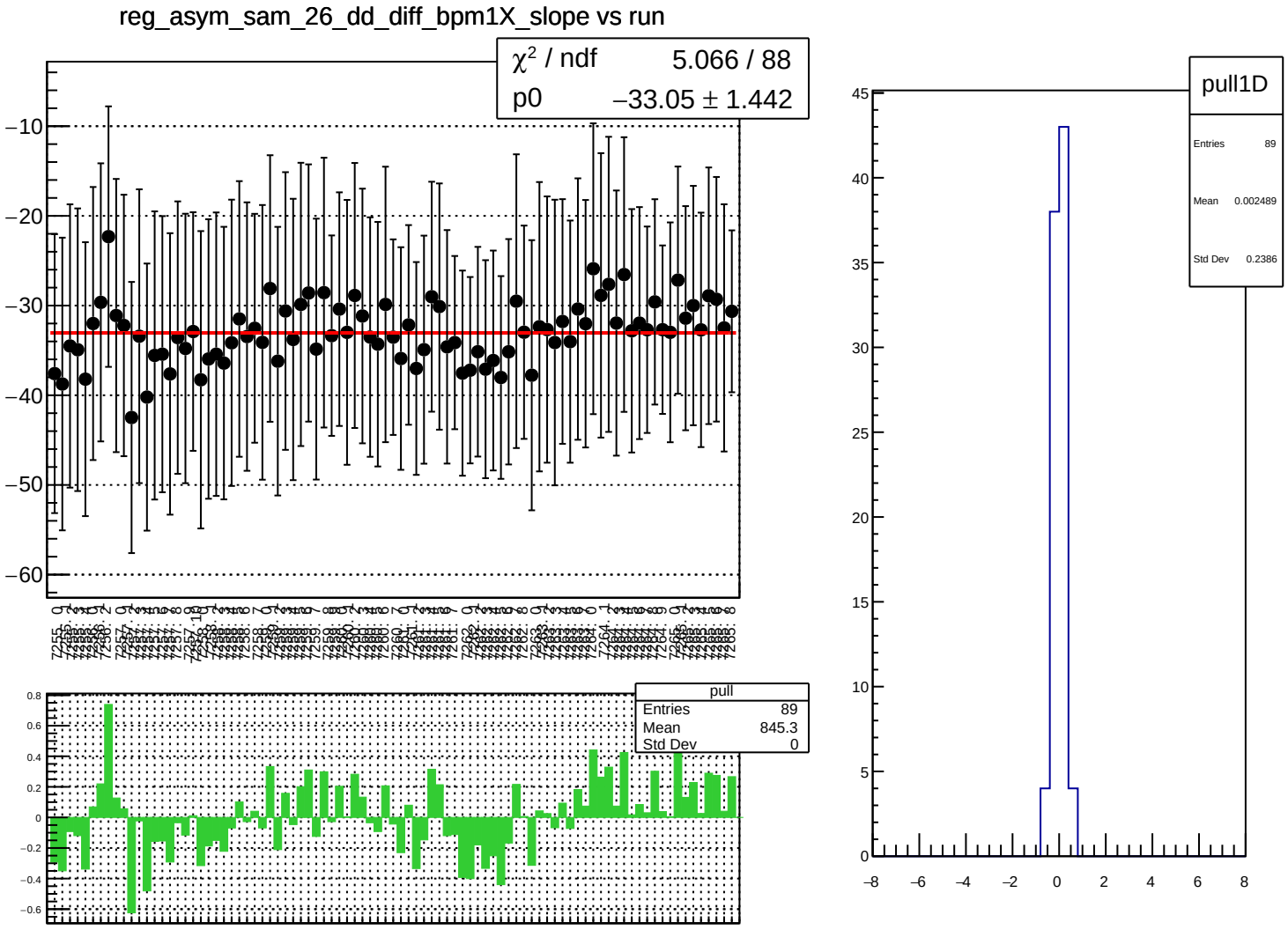

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.44 / 88
p0 6.786 ± 0.2912
pull
Entries 89
Mean −166.6
Std Dev 0

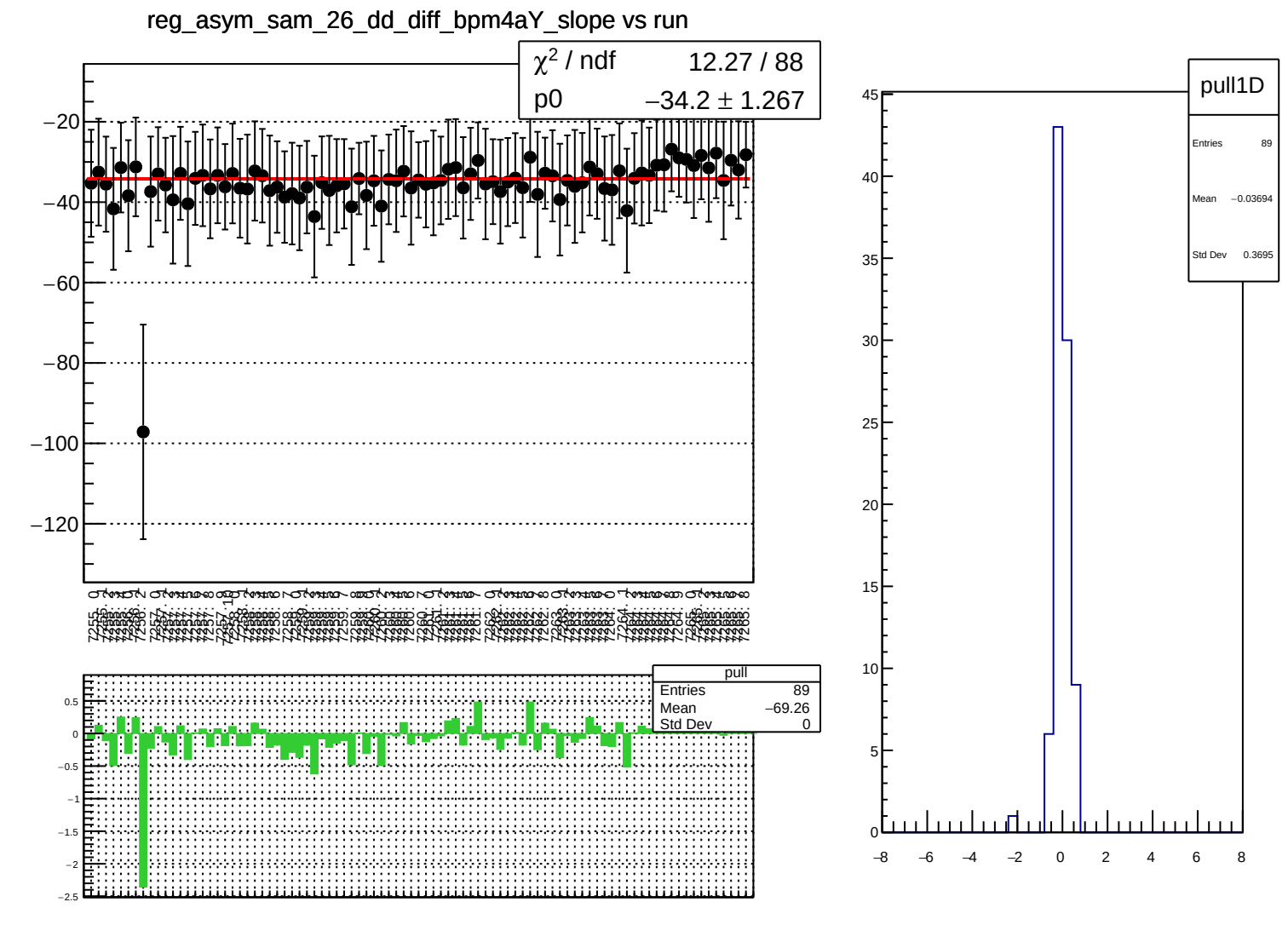

pull1D
Entries 89
Mean −0.03433
Std Dev 0.6978

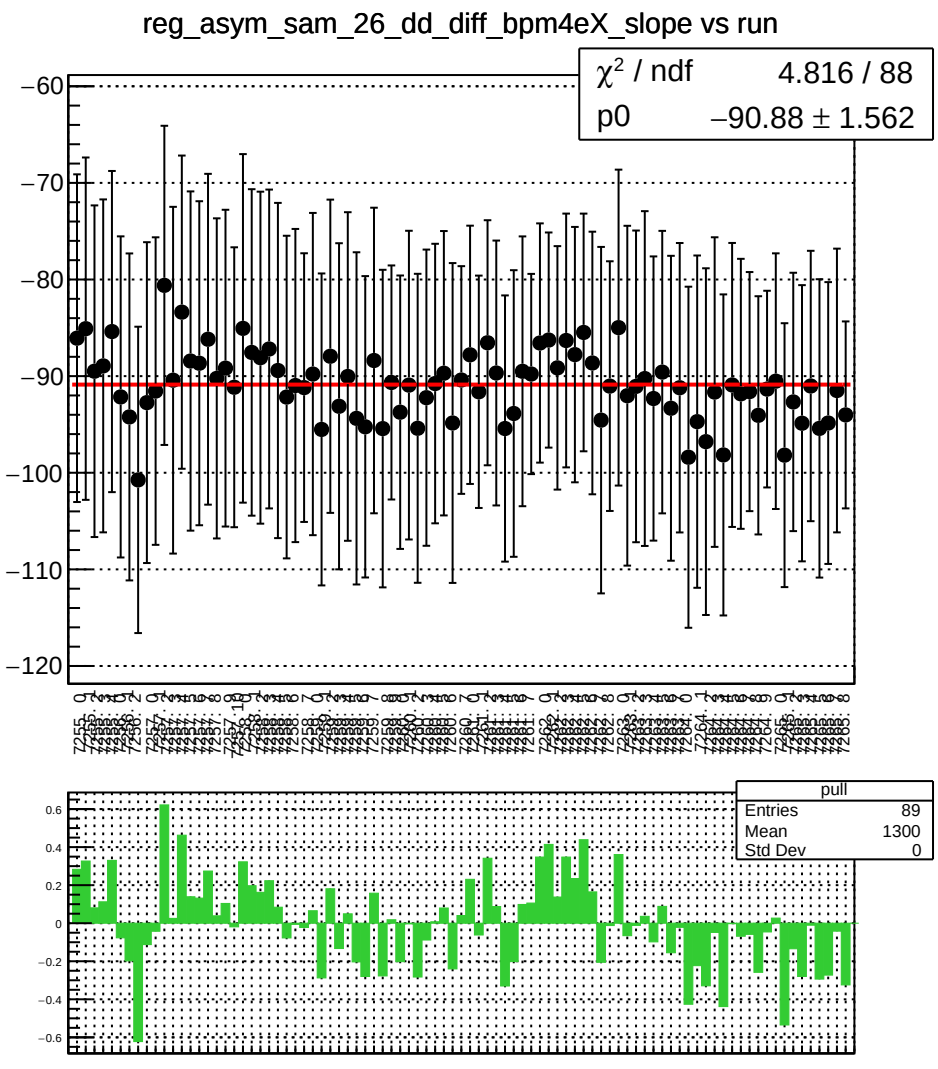

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.07 / 88
p0 −30.82 ± 0.3605
pull
Entries 89
Mean −48.9
Std Dev 0
pull1D
Entries 89
Mean −0.1013
Std Dev 0.8153

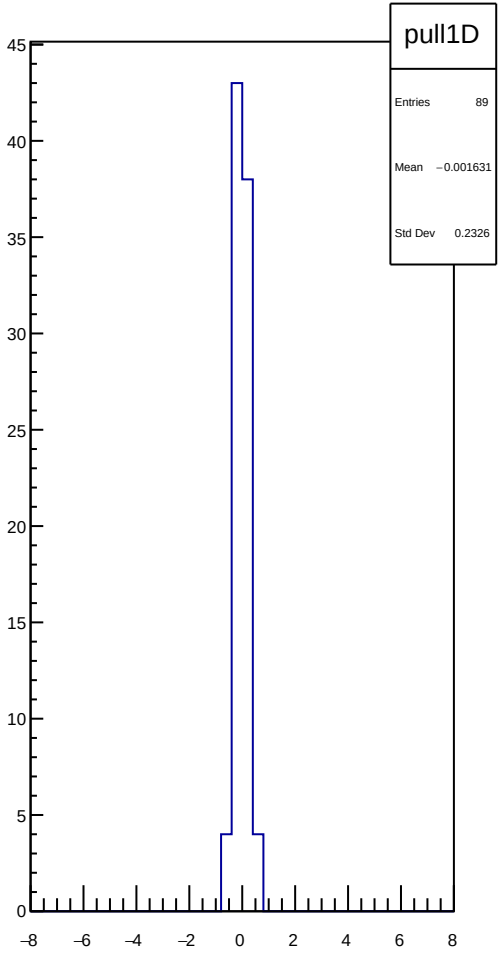

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 56.95 / 88
p0 −26.71 ± 0.3065
pull
Entries 89
Mean −363.7
Std Dev 0
pull1D
Entries 89
Mean 0.009908
Std Dev 0.7999

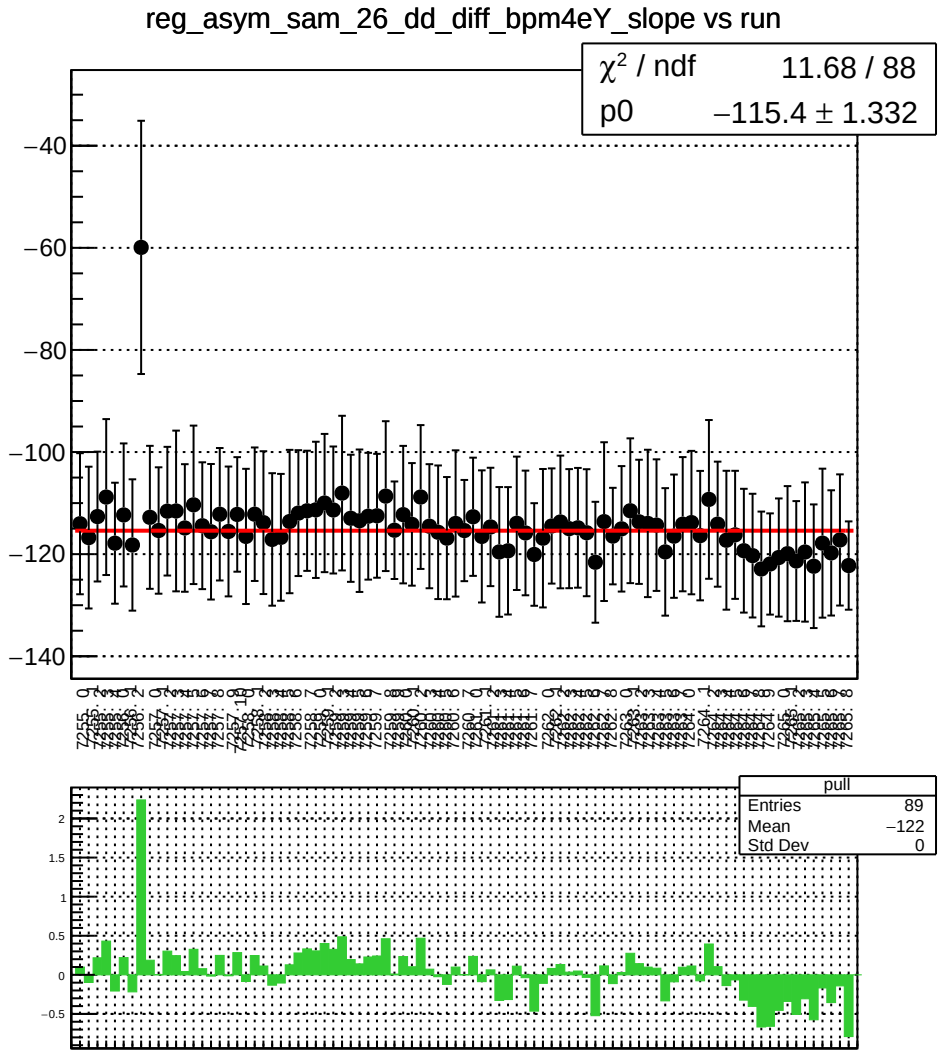

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 5.722 / 88
p0 0.486 ± 0.01274
pull
Entries 89
Mean −361.6
Std Dev 0
pull1D
Entries 89
Mean 0.004327
Std Dev 0.2535

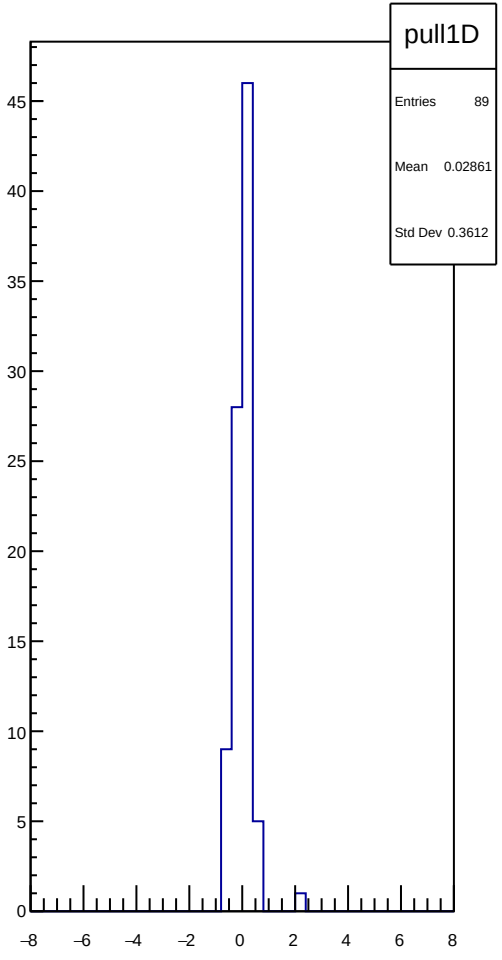

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 5.066 / 88
p0 −33.05 ± 1.442
pull
Entries 89
Mean 845.3
Std Dev 0
pull1D
Entries 89
Mean 0.002489
Std Dev 0.2386

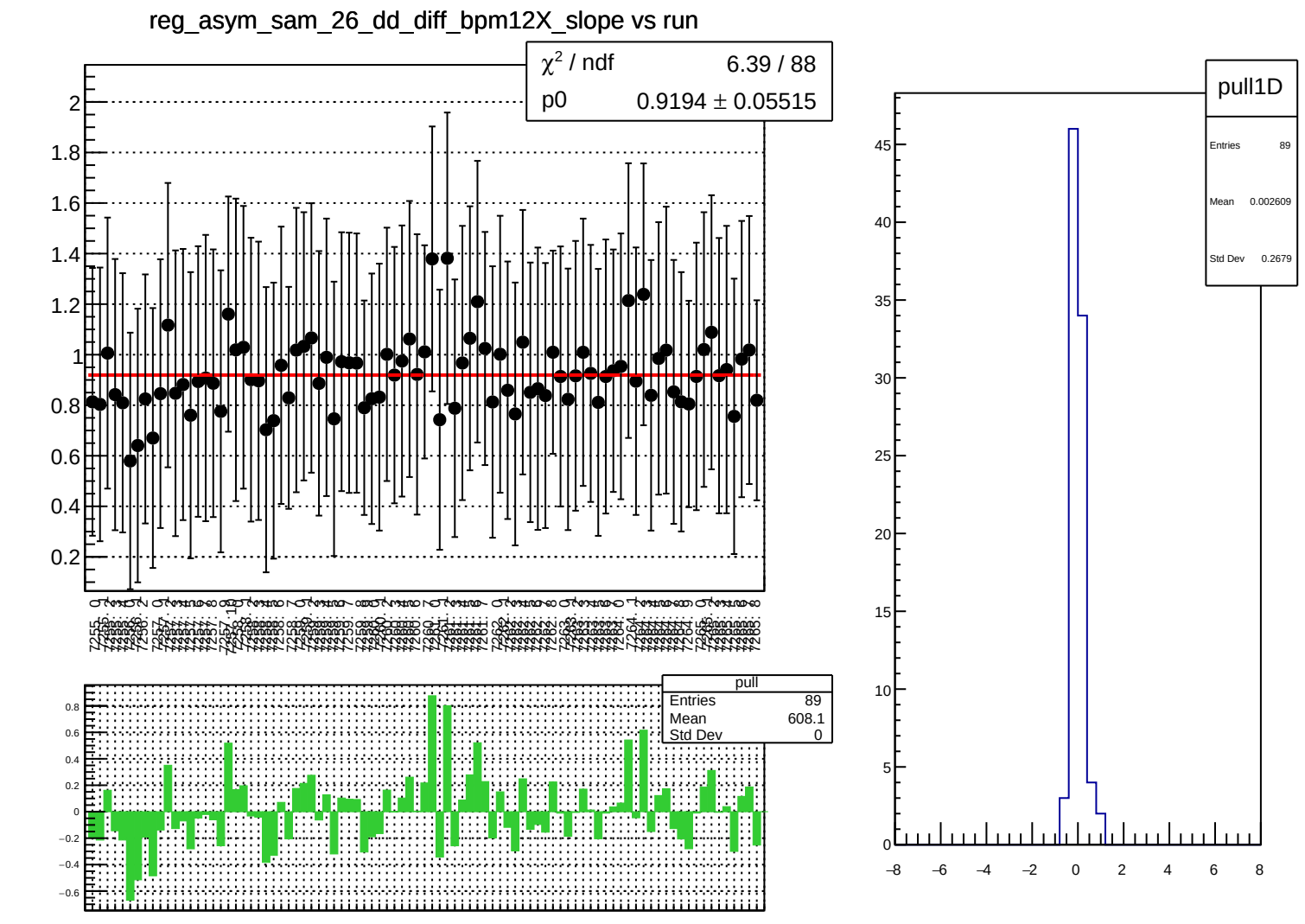

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.27 / 88
p0 −34.2 ± 1.267
pull
Entries 89
Mean −69.26
Std Dev 0
pull1D
Entries 89
Mean −0.03694
Std Dev 0.3695

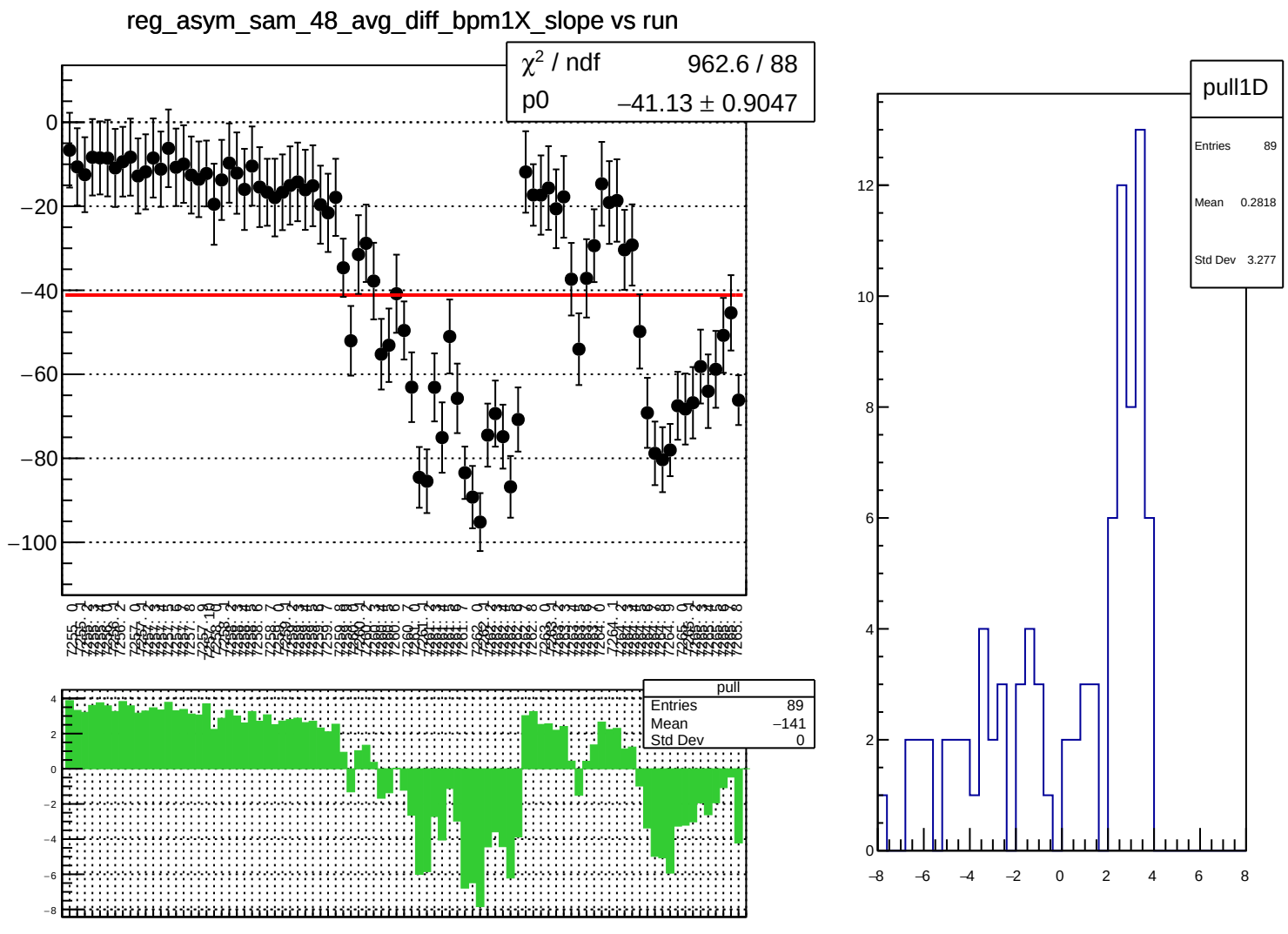

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.816 / 88
p0 −90.88 ± 1.562
pull
Entries 89
Mean 1300
Std Dev 0

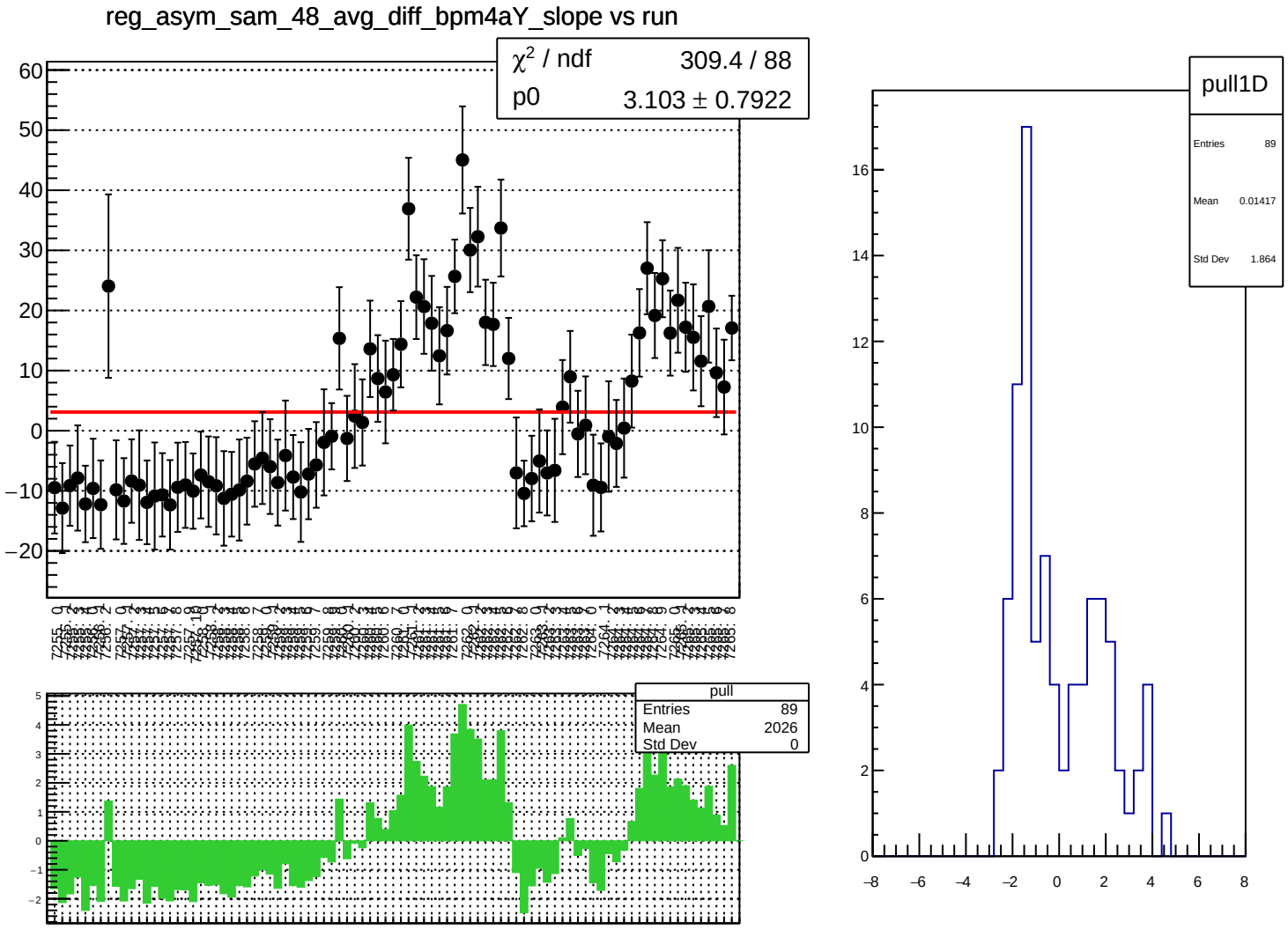

pull1D
Entries 89
Mean −0.001631
Std Dev 0.2326

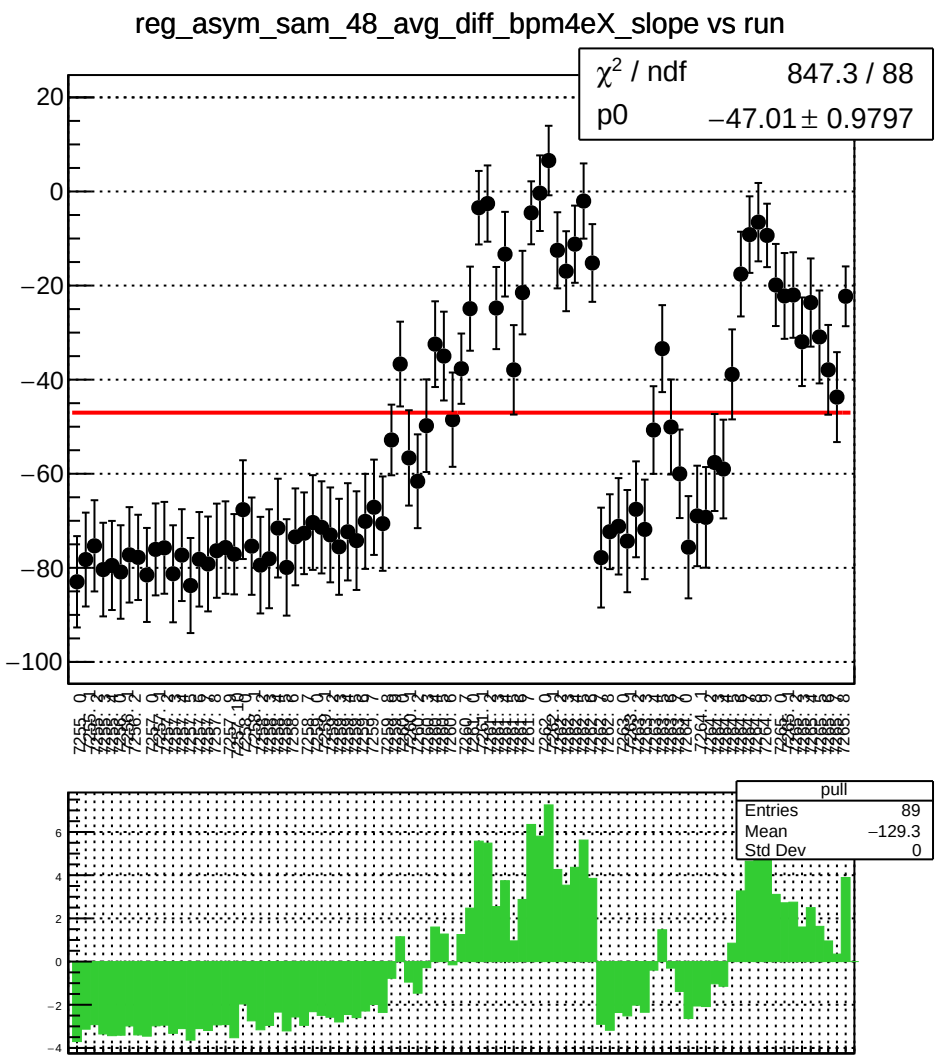

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.68 / 88
p0 −115.4 ± 1.332
−40
−60
−80
−100
−120
−140
pull
Entries 89
Mean −122
Std Dev 0
2
1.5
1
0.5
0
−0.5

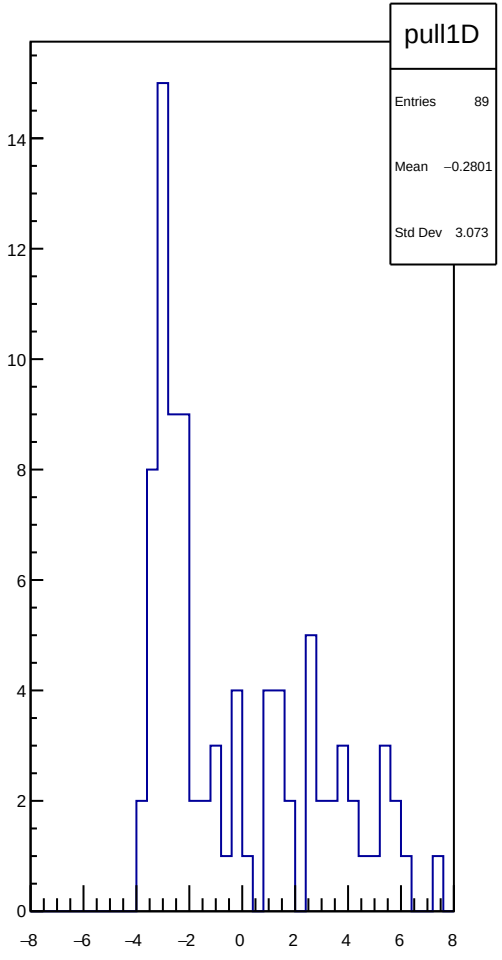

pull1D
Entries 89
Mean 0.02861
Std Dev 0.3612
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

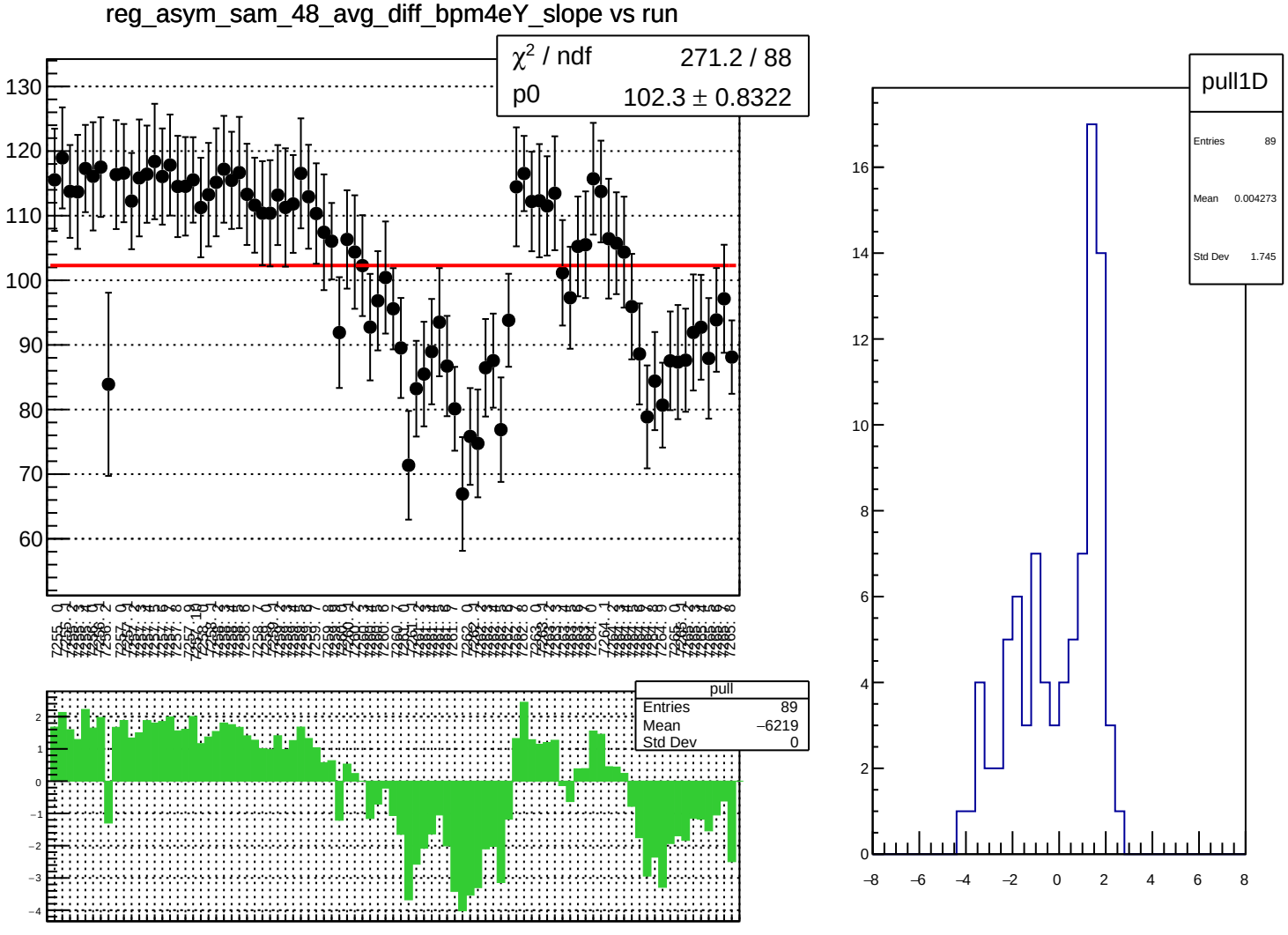

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 6.39 / 88
p0 0.9194 ± 0.05515
pull
Entries 89
Mean 608.1
Std Dev 0
pull1D
Entries 89
Mean 0.002609
Std Dev 0.2679

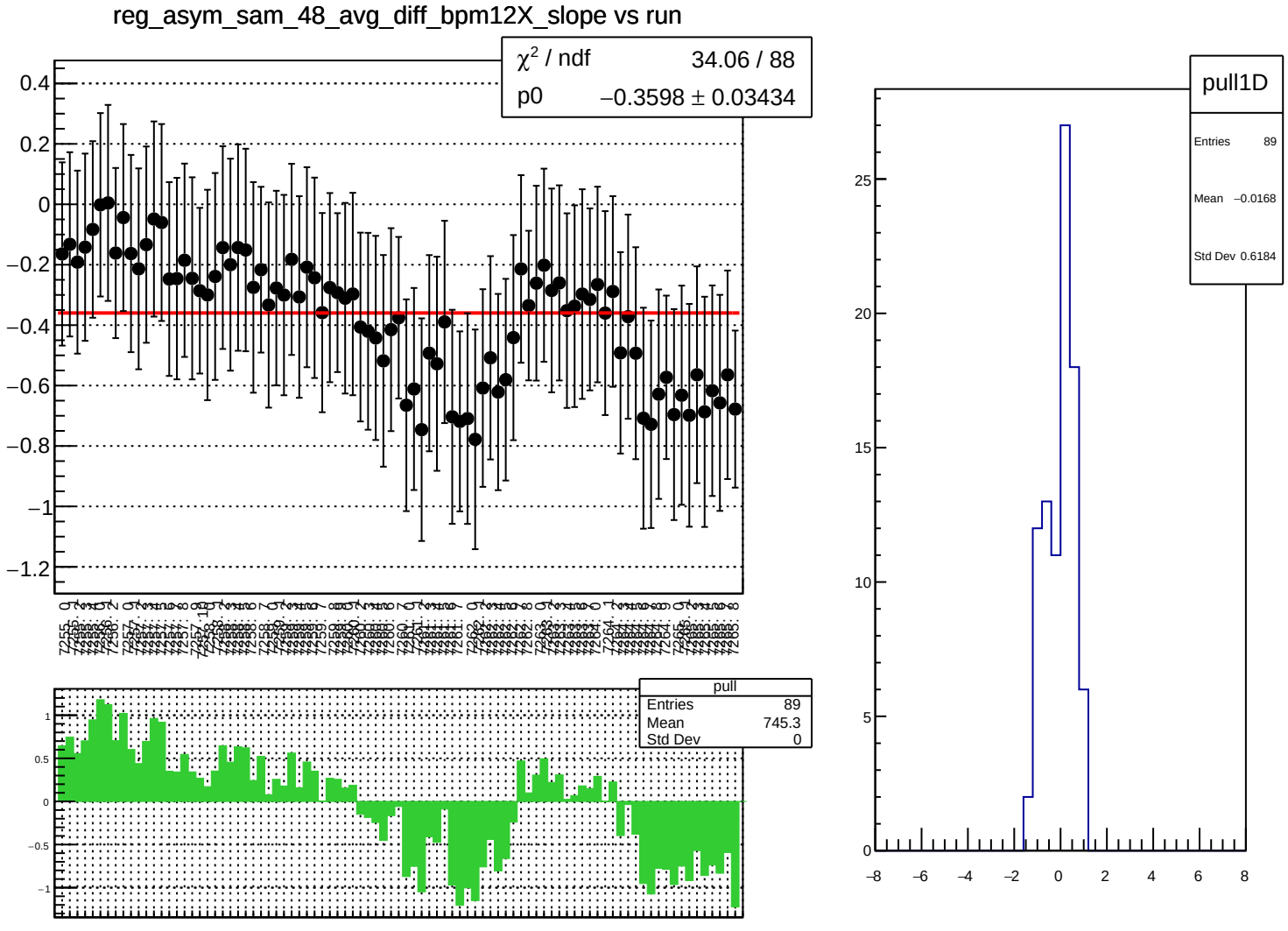

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 962.6 / 88
p0 −41.13 ± 0.9047
0
−20
−40
−60
−80
−100
pull
Entries 89
Mean −141
Std Dev 0
4
2
0
−2
−4
−6
−8
pull1D
Entries 89
Mean 0.2818
Std Dev 3.277
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

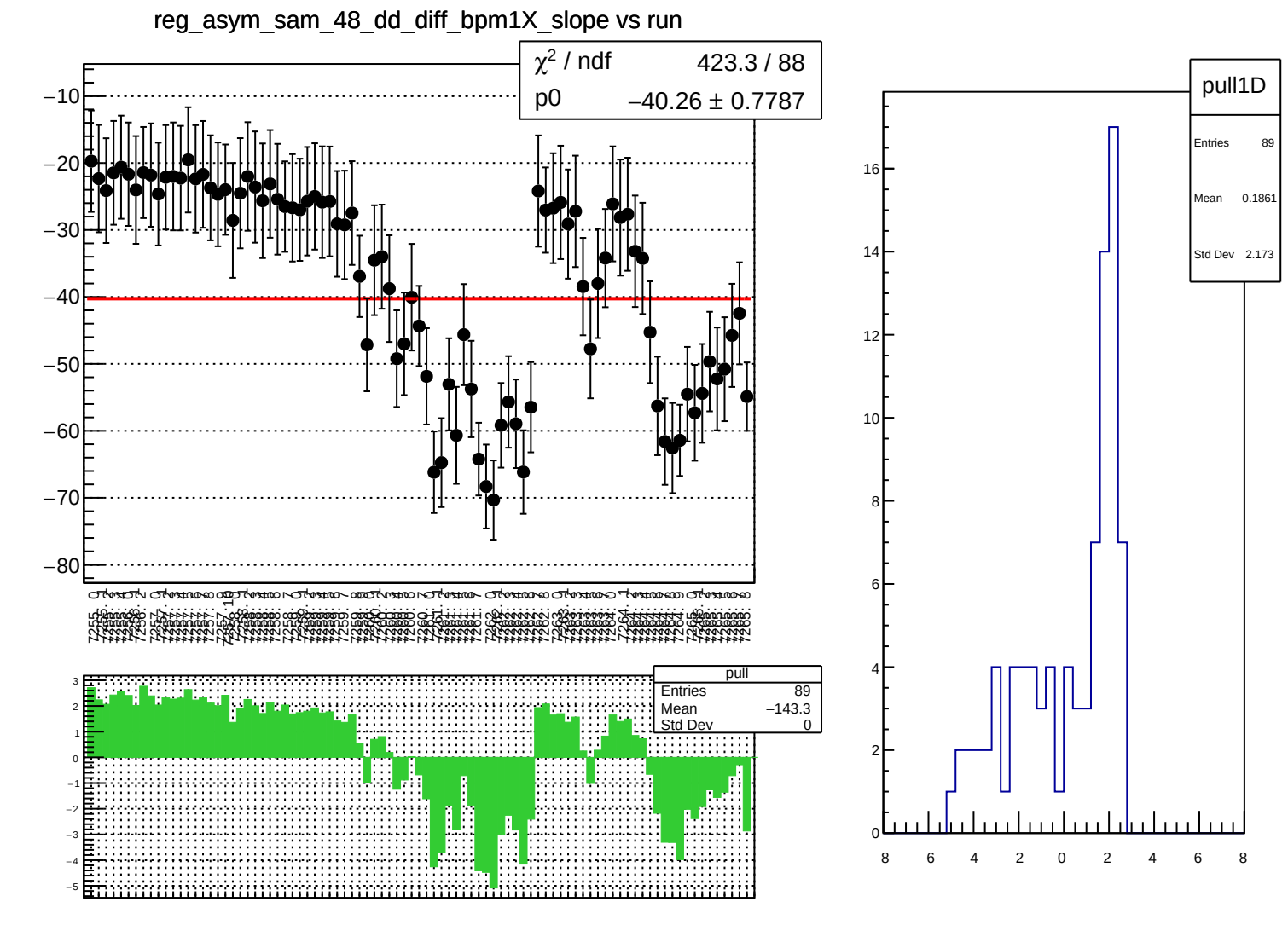

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 309.4 / 88
p0 3.103 ± 0.7922
pull
Entries 89
Mean 2026
Std Dev 0
pull1D
Entries 89
Mean 0.01417
Std Dev 1.864

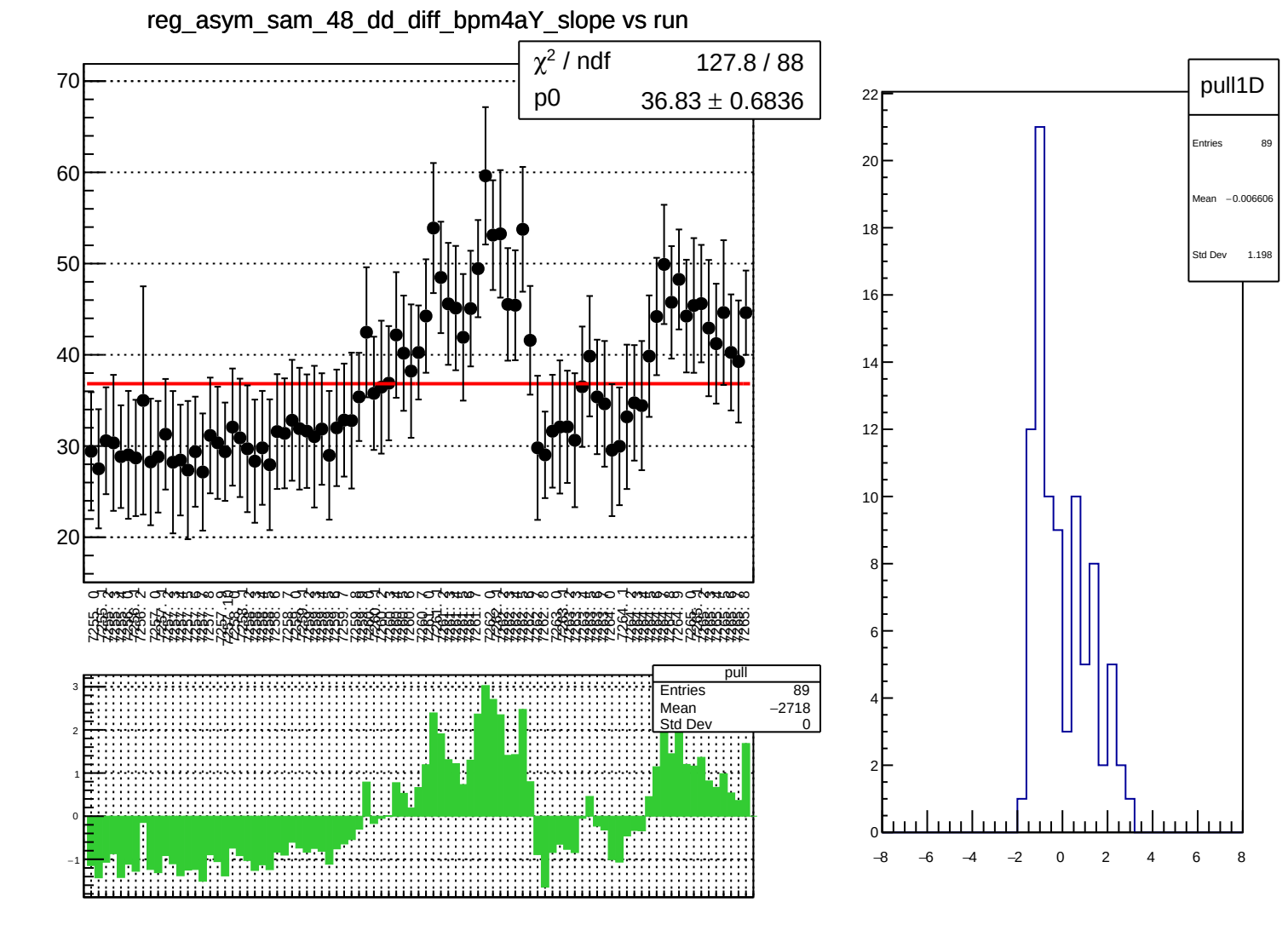

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 847.3 / 88
p0 −47.01 ± 0.9797
pull
Entries 89
Mean −129.3
Std Dev 0

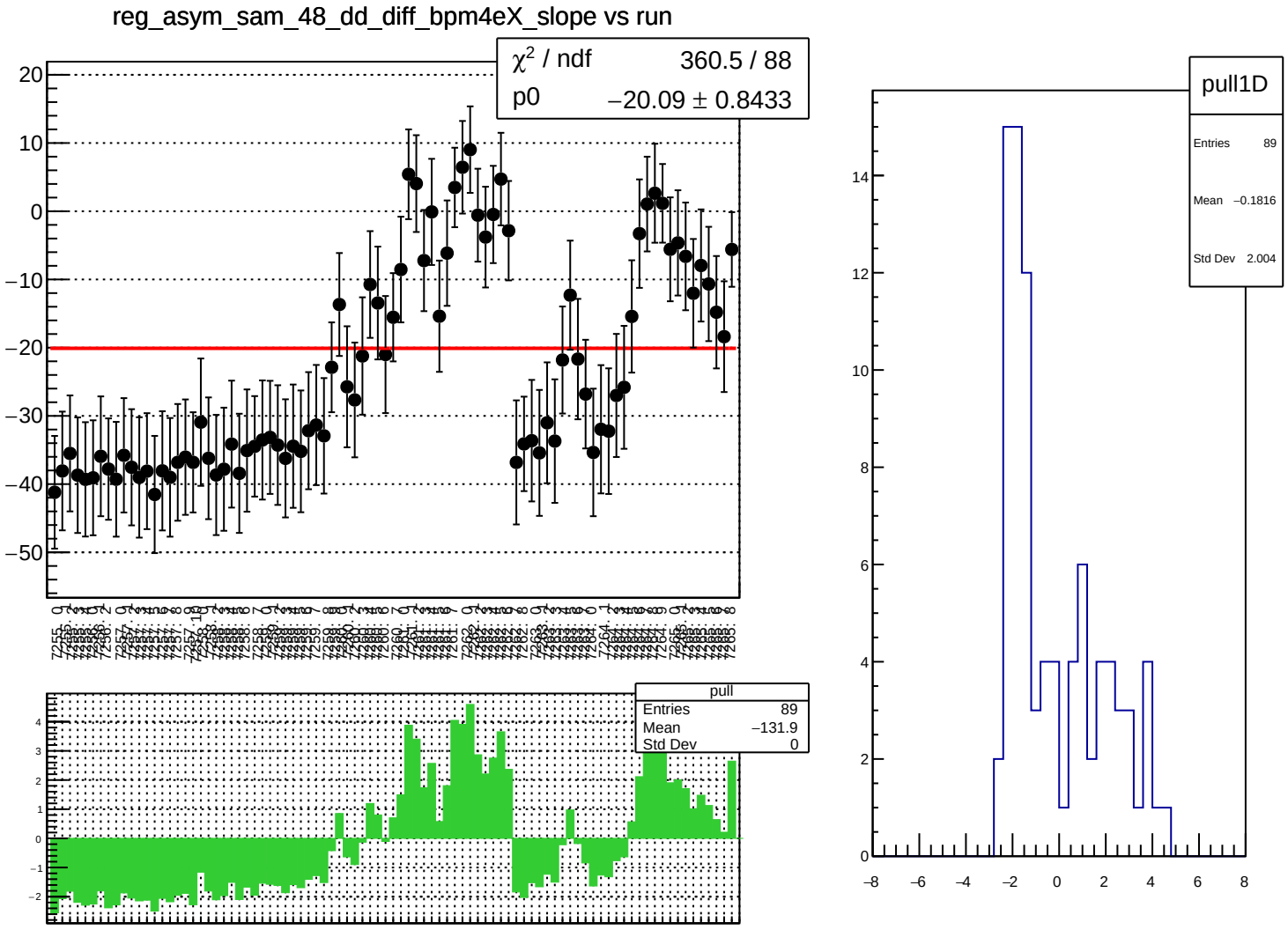

pull1D
Entries 89
Mean −0.2801
Std Dev 3.073

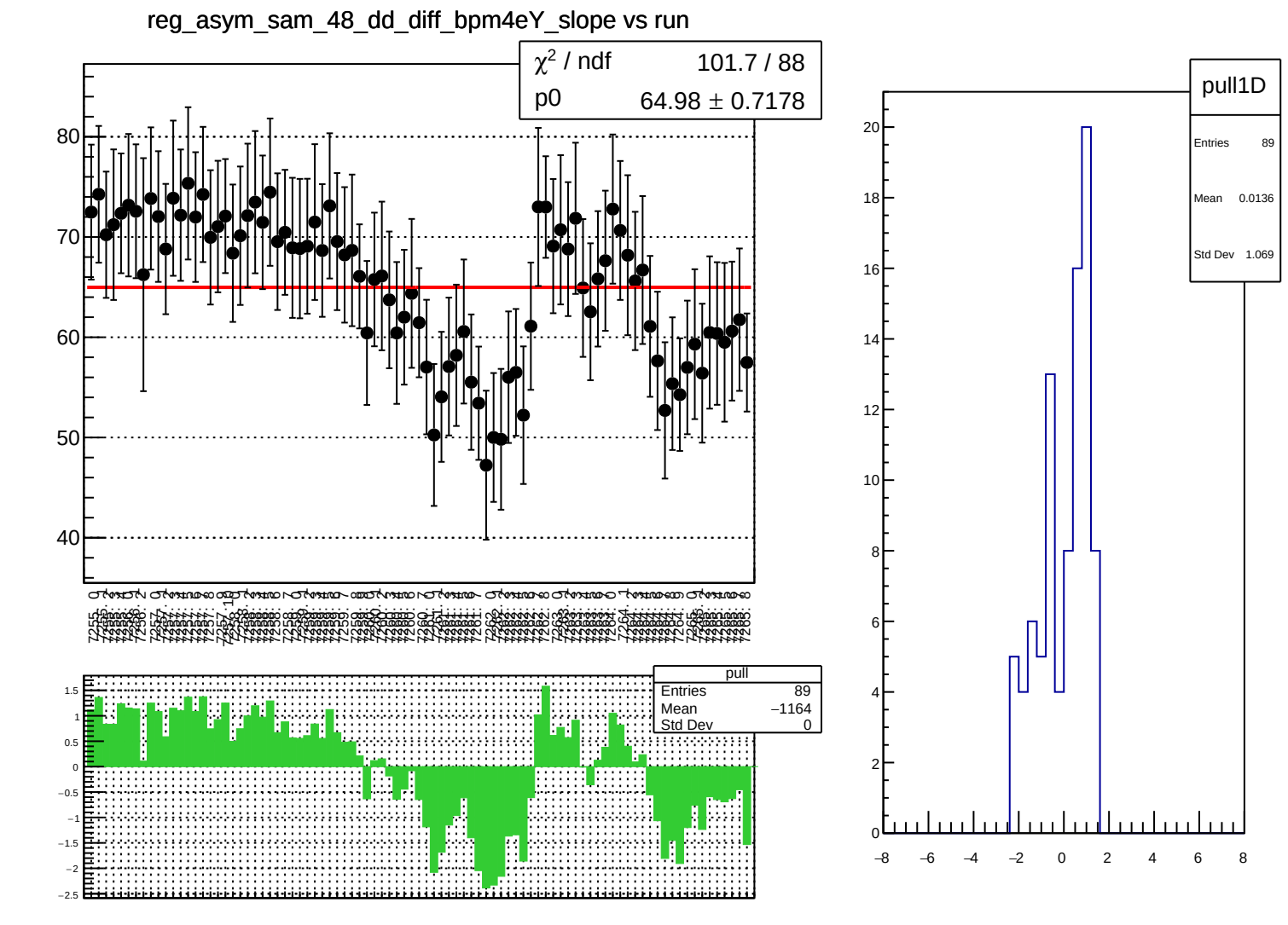

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 271.2 / 88
p0 102.3 ± 0.8322
pull
Entries 89
Mean −6219
Std Dev 0
pull1D
Entries 89
Mean 0.004273
Std Dev 1.745

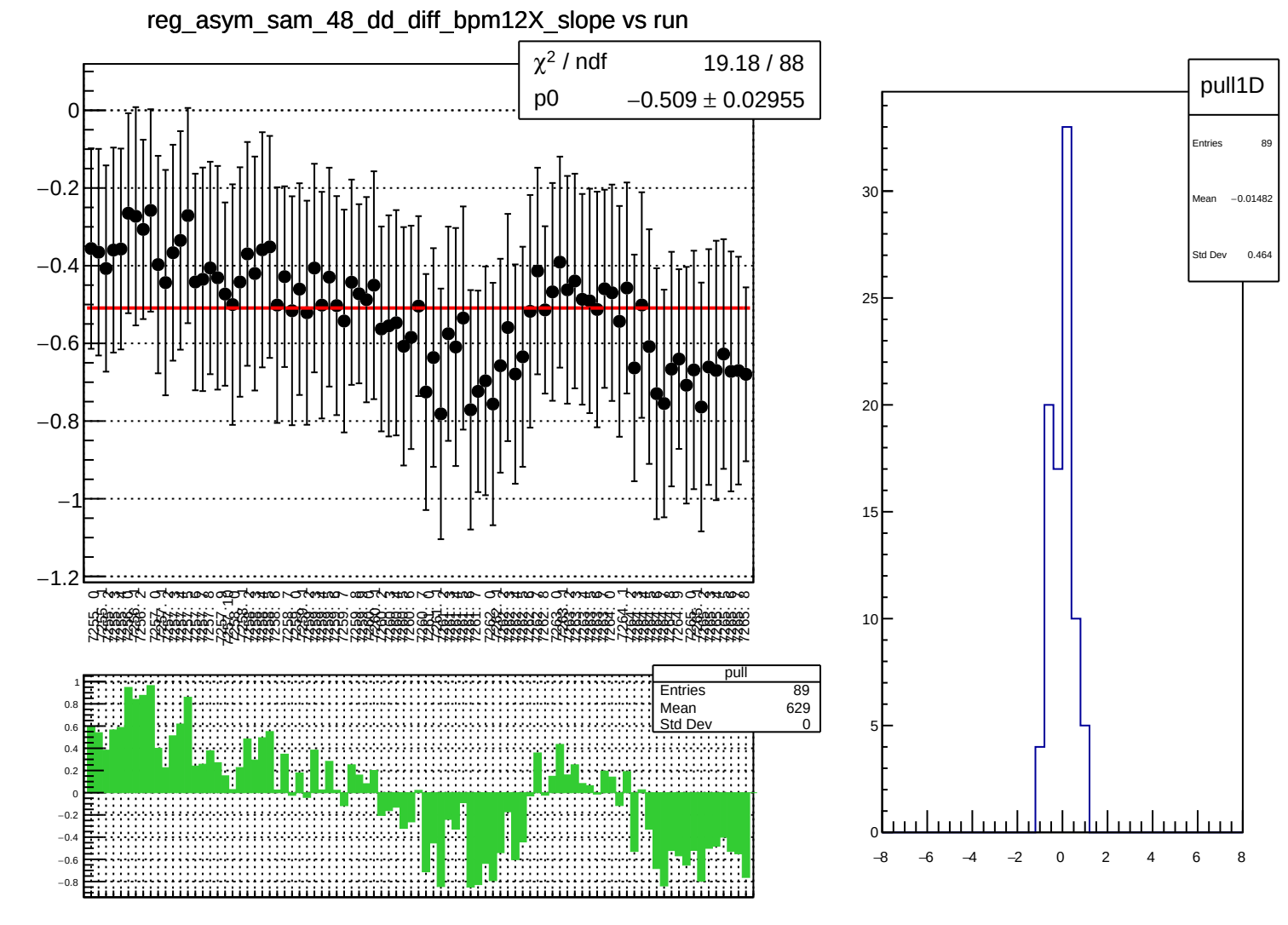

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 34.06 / 88
p0 −0.3598 ± 0.03434
pull
Entries 89
Mean 745.3
Std Dev 0
pull1D
Entries 89
Mean −0.0168
Std Dev 0.6184

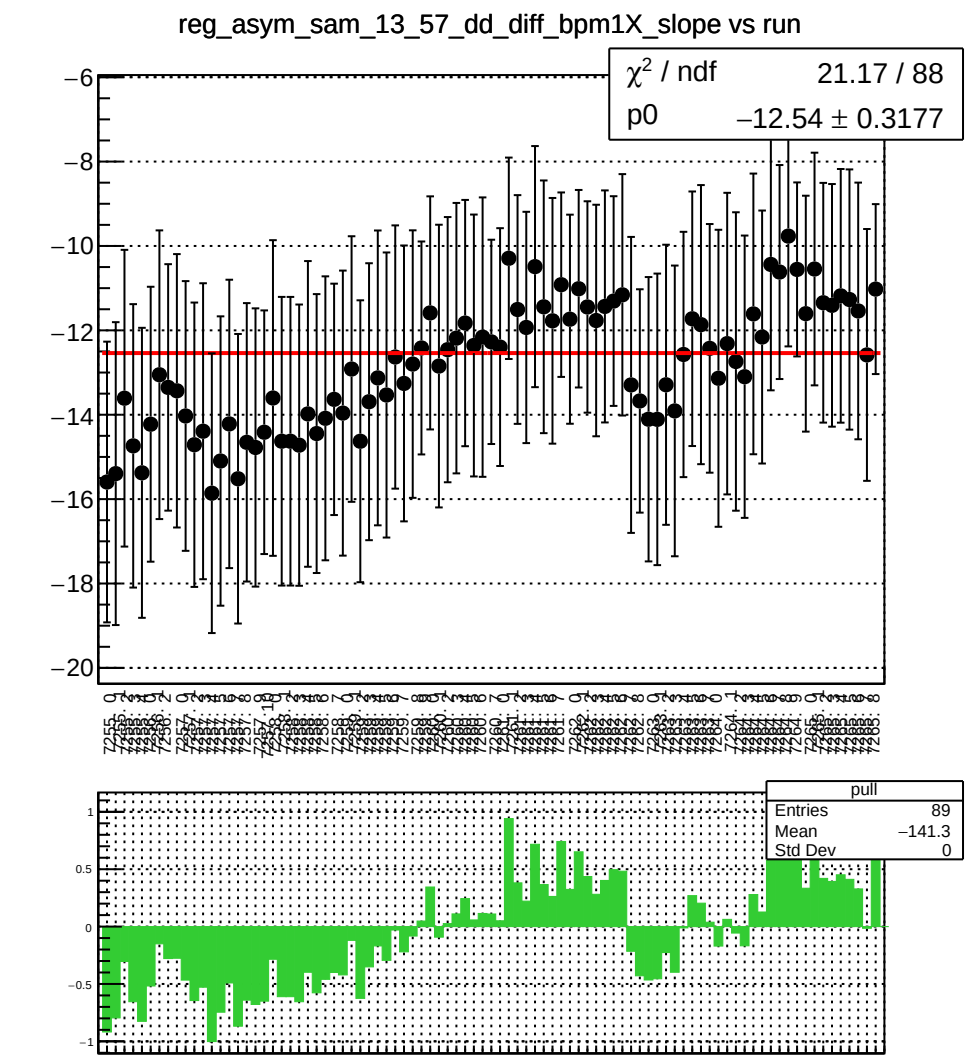

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 423.3 / 88
p0 −40.26 ± 0.7787
pull
Entries 89
Mean −143.3
Std Dev 0
pull1D
Entries 89
Mean 0.1861
Std Dev 2.173

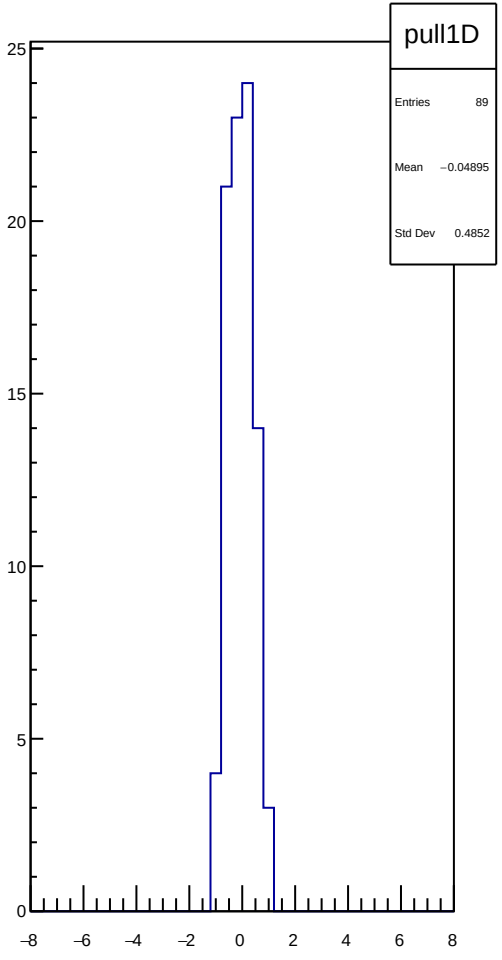

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 127.8 / 88
p0 36.83 ± 0.6836
pull
Entries 89
Mean −2718
Std Dev 0
pull1D
Entries 89
Mean −0.006606
Std Dev 1.198

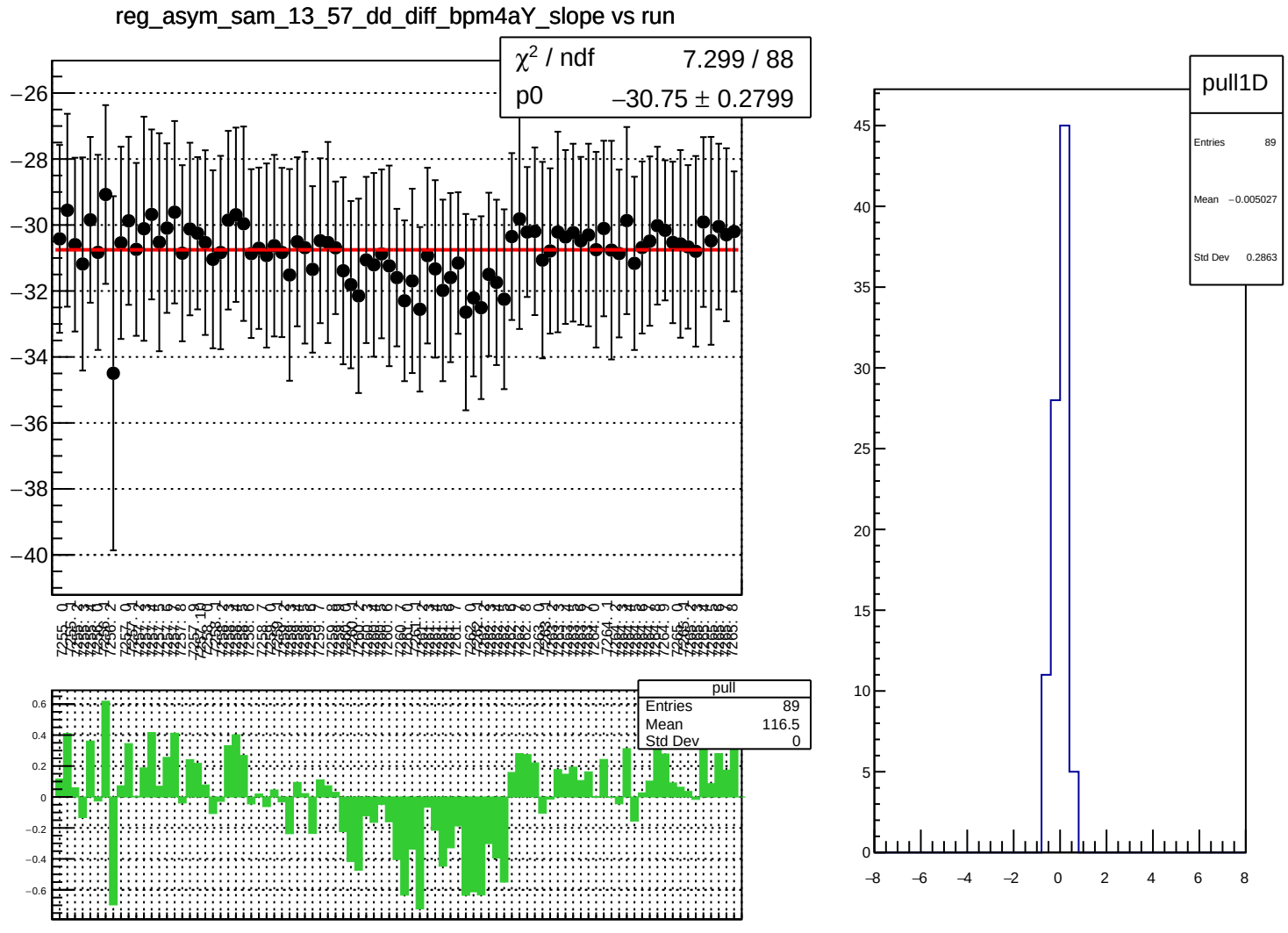

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 360.5 / 88
p0 −20.09 ± 0.8433
pull
Entries 89
Mean −131.9
Std Dev 0
pull1D
Entries 89
Mean −0.1816
Std Dev 2.004

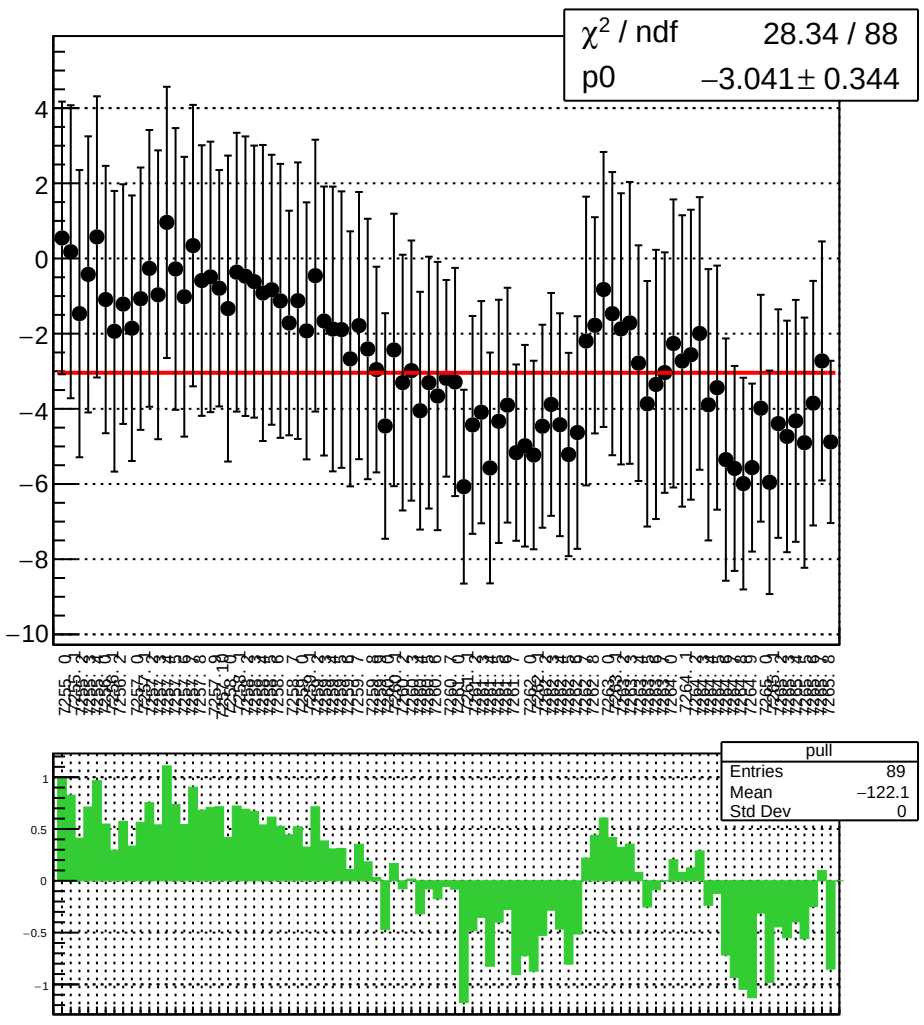

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 101.7 / 88
p0 64.98 ± 0.7178
pull
Entries 89
Mean −1164
Std Dev 0
pull1D
Entries 89
Mean 0.0136
Std Dev 1.069

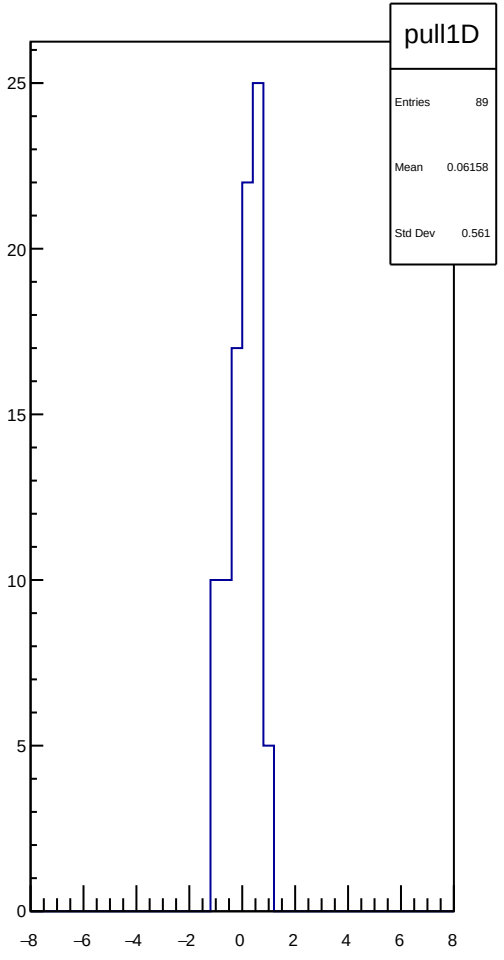

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 19.18 / 88
p0 −0.509 ± 0.02955
pull
Entries 89
Mean 629
Std Dev 0
pull1D
Entries 89
Mean −0.01482
Std Dev 0.464

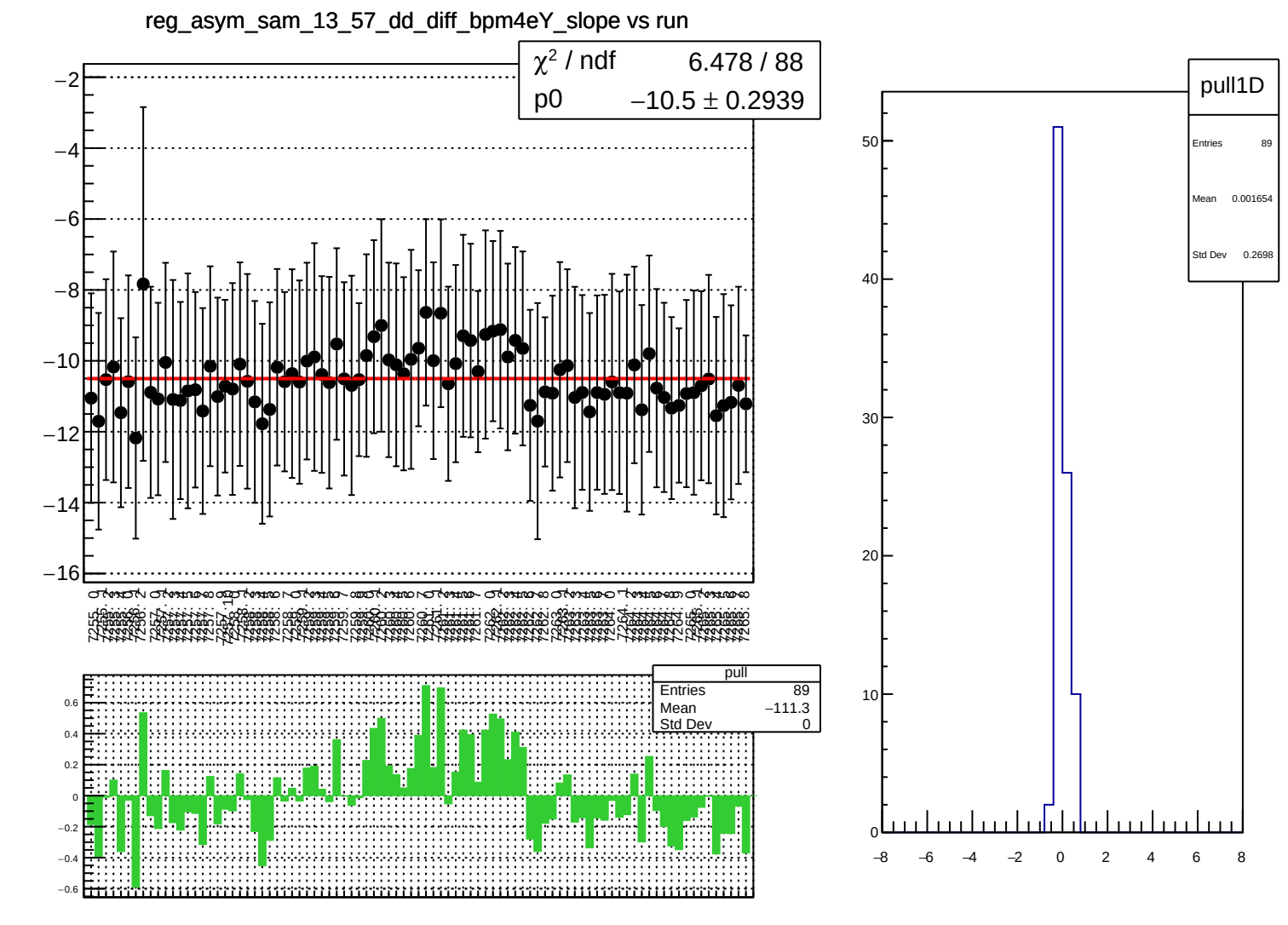

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 21.17 / 88
p0 −12.54 ± 0.3177
pull
Entries 89
Mean −141.3
Std Dev 0

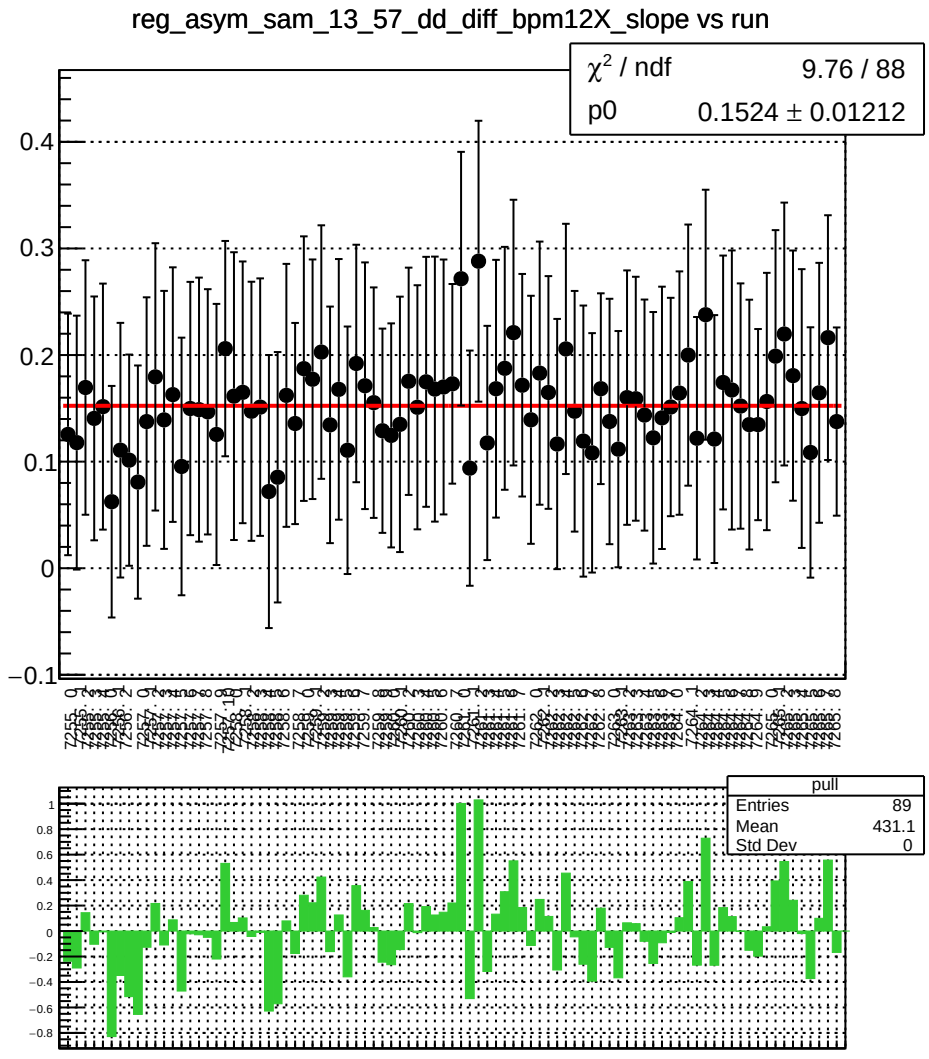

pull1D
Entries 89
Mean −0.04895
Std Dev 0.4852

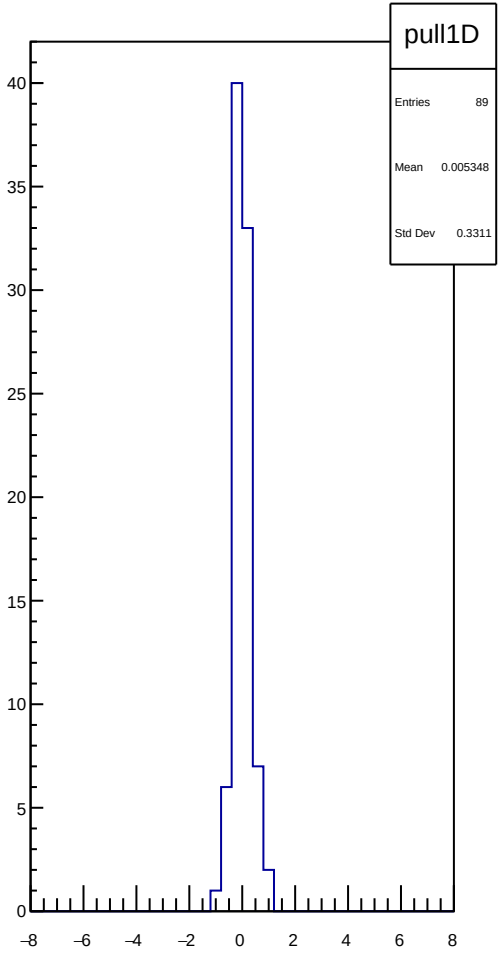

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.299 / 88
p0 −30.75 ± 0.2799
pull
Entries 89
Mean 116.5
Std Dev 0
pull1D
Entries 89
Mean −0.005027
Std Dev 0.2863

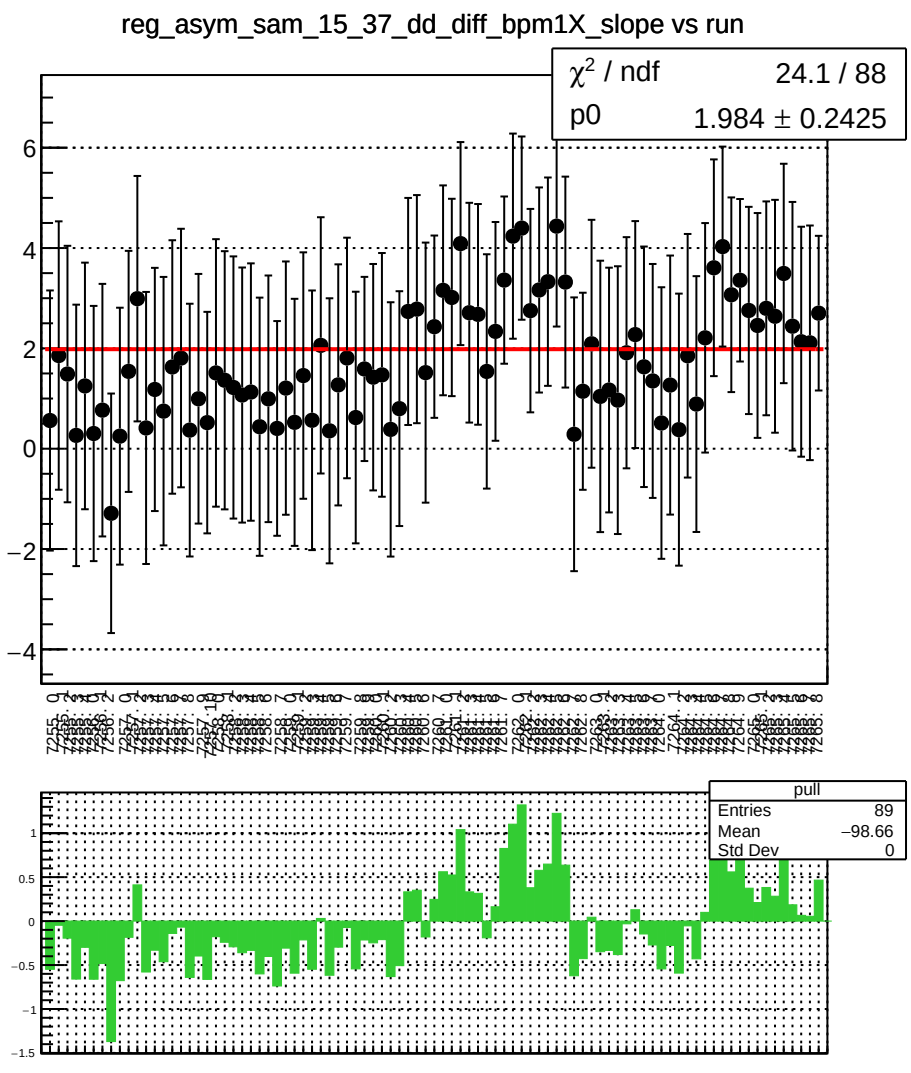

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.34 / 88
p0 −3.041 ± 0.344
pull
Entries 89
Mean −122.1
Std Dev 0

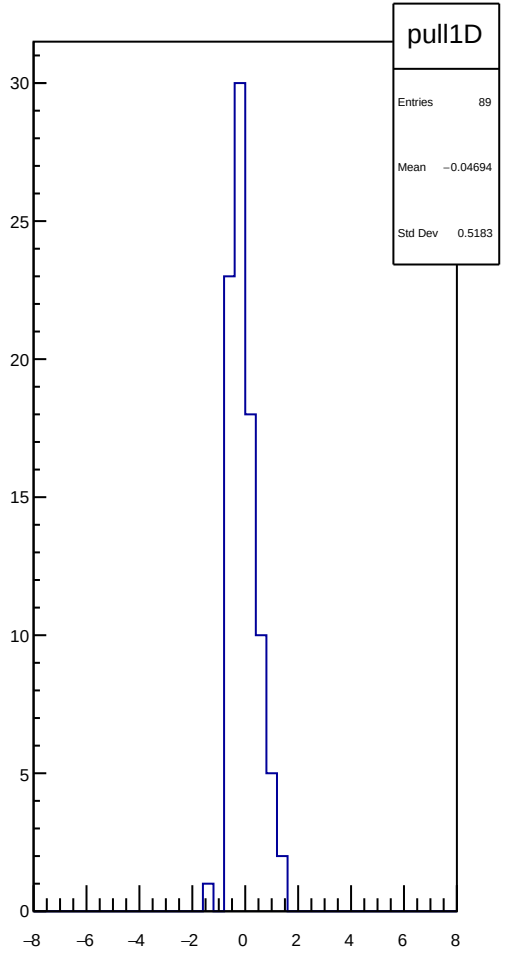

pull1D
Entries 89
Mean 0.06158
Std Dev 0.561

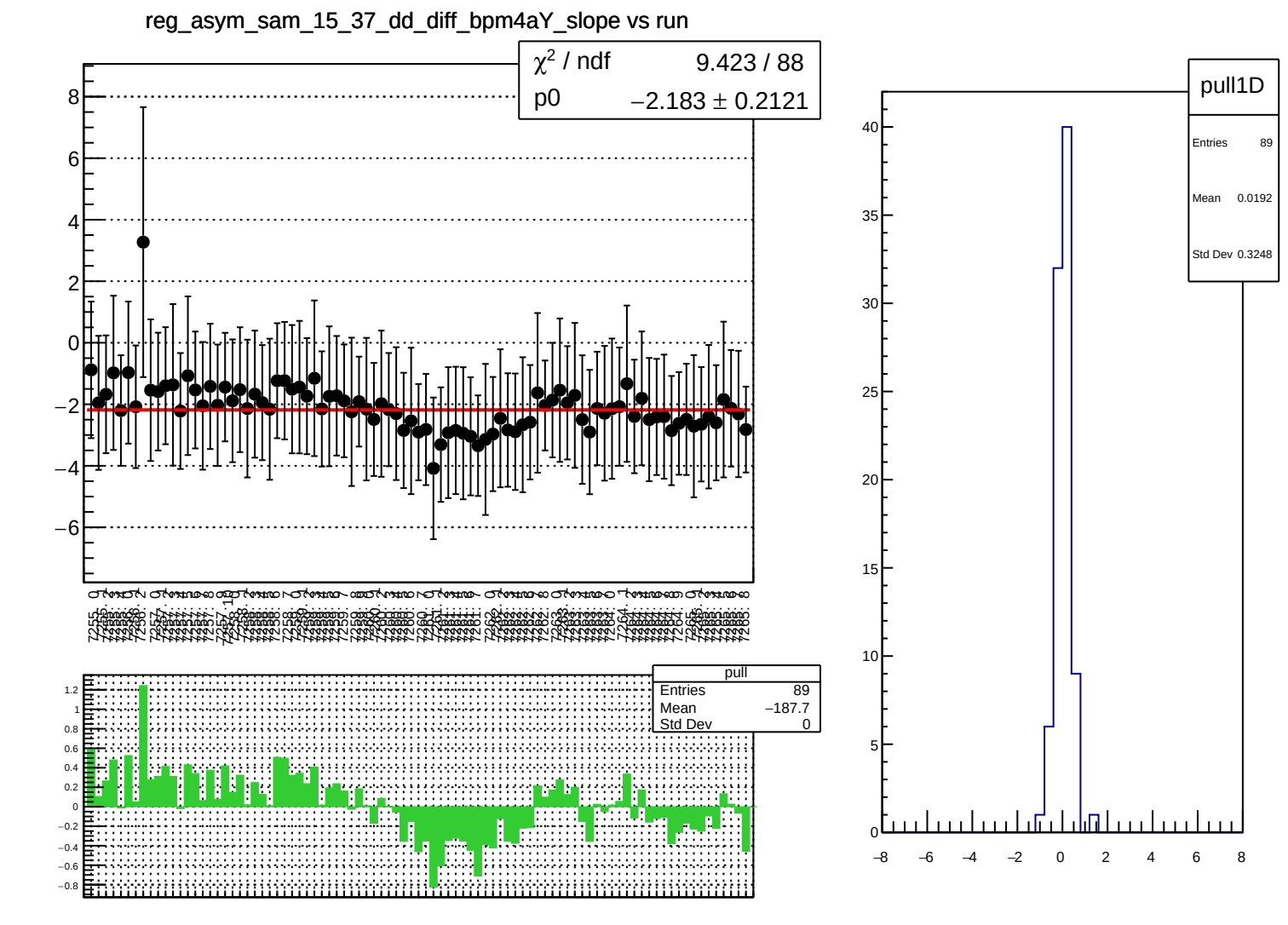

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.478 / 88
p0 −10.5 ± 0.2939
pull
Entries 89
Mean −111.3
Std Dev 0
pull1D
Entries 89
Mean 0.001654
Std Dev 0.2698

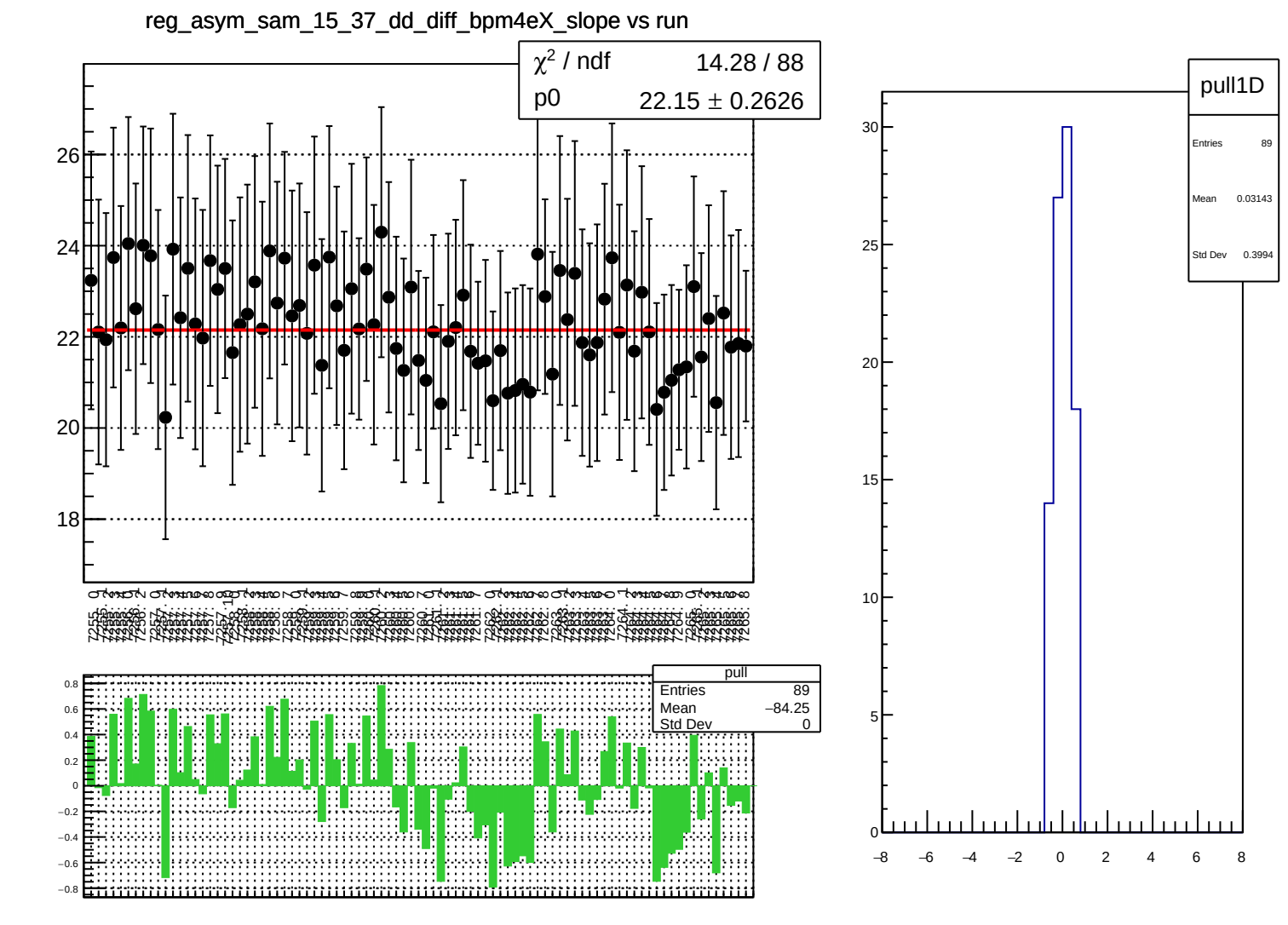

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 9.76 / 88
p0 0.1524 ± 0.01212
pull
Entries 89
Mean 431.1
Std Dev 0

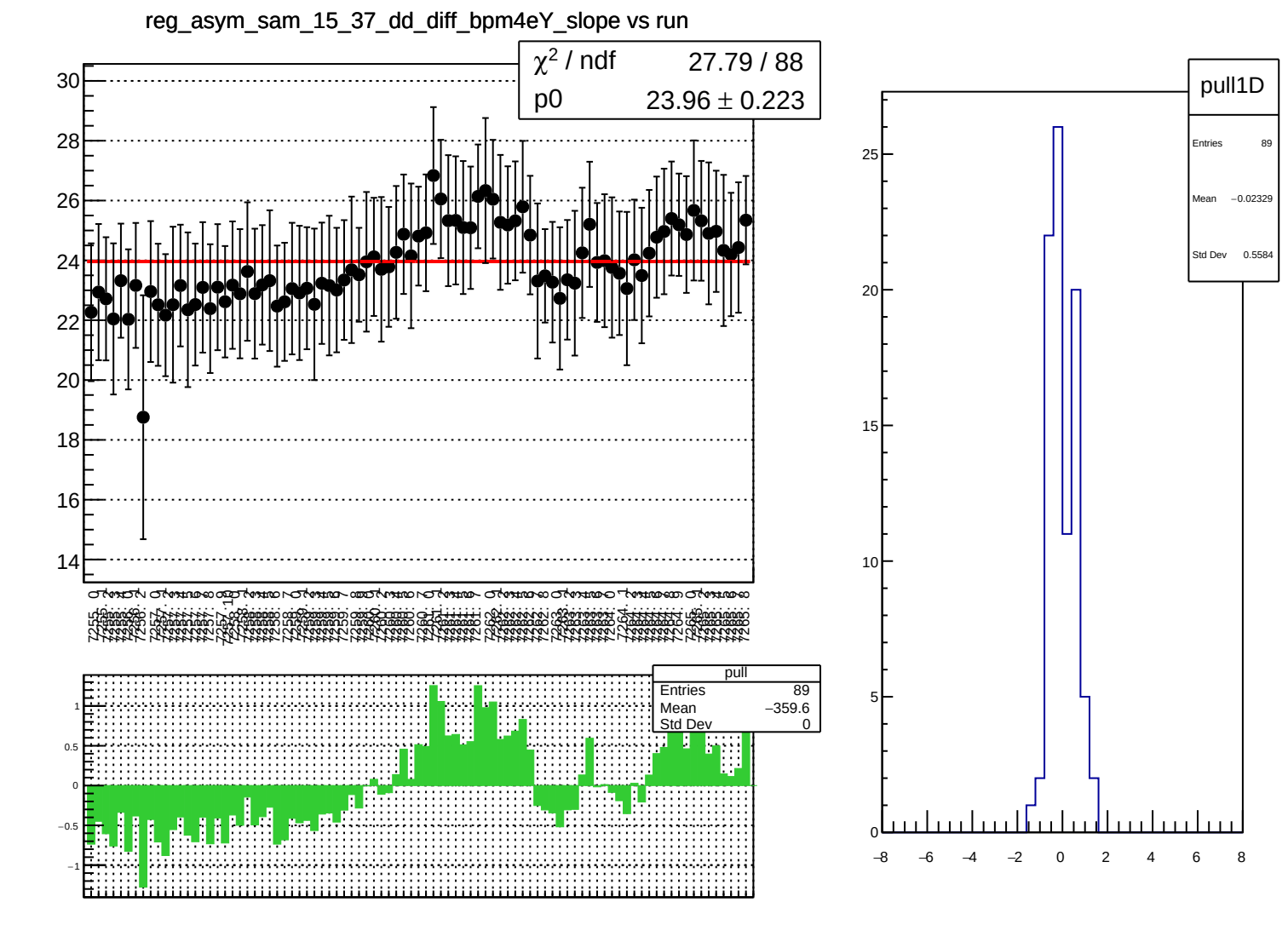

pull1D
Entries 89
Mean 0.005348
Std Dev 0.3311

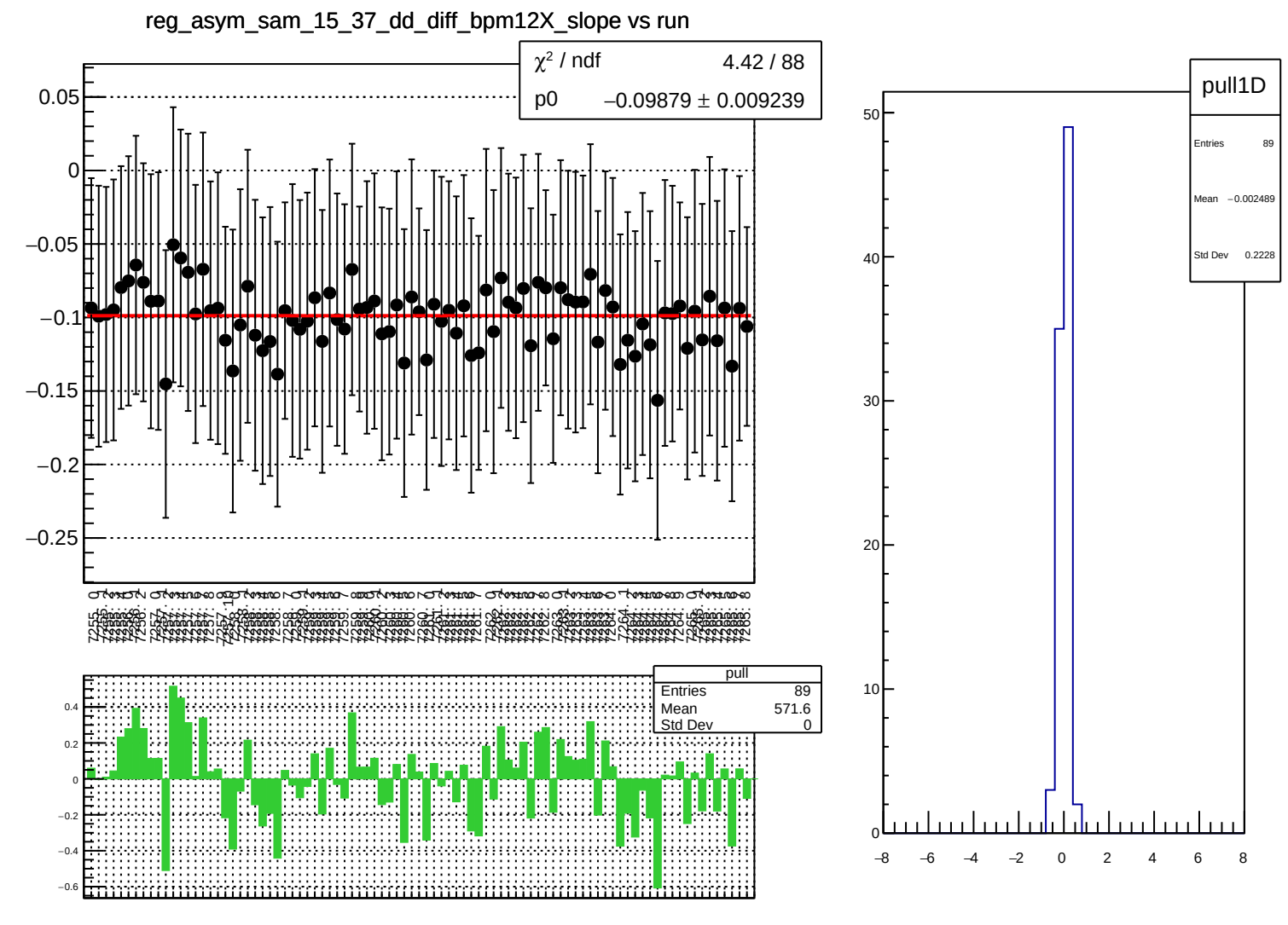

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 24.1 / 88
p0 1.984 ± 0.2425
pull
Entries 89
Mean −98.66
Std Dev 0

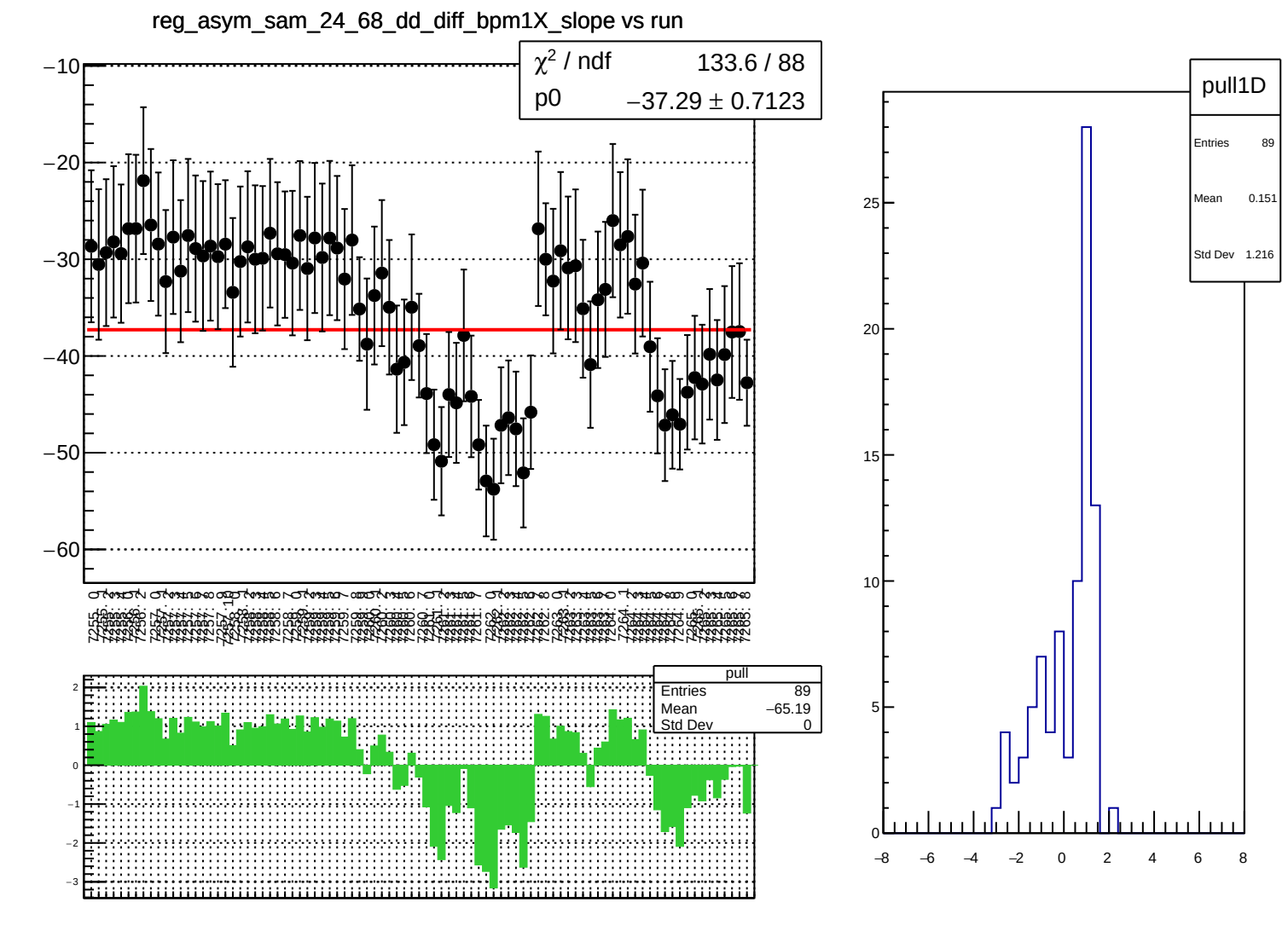

pull1D
Entries 89
Mean −0.04694
Std Dev 0.5183

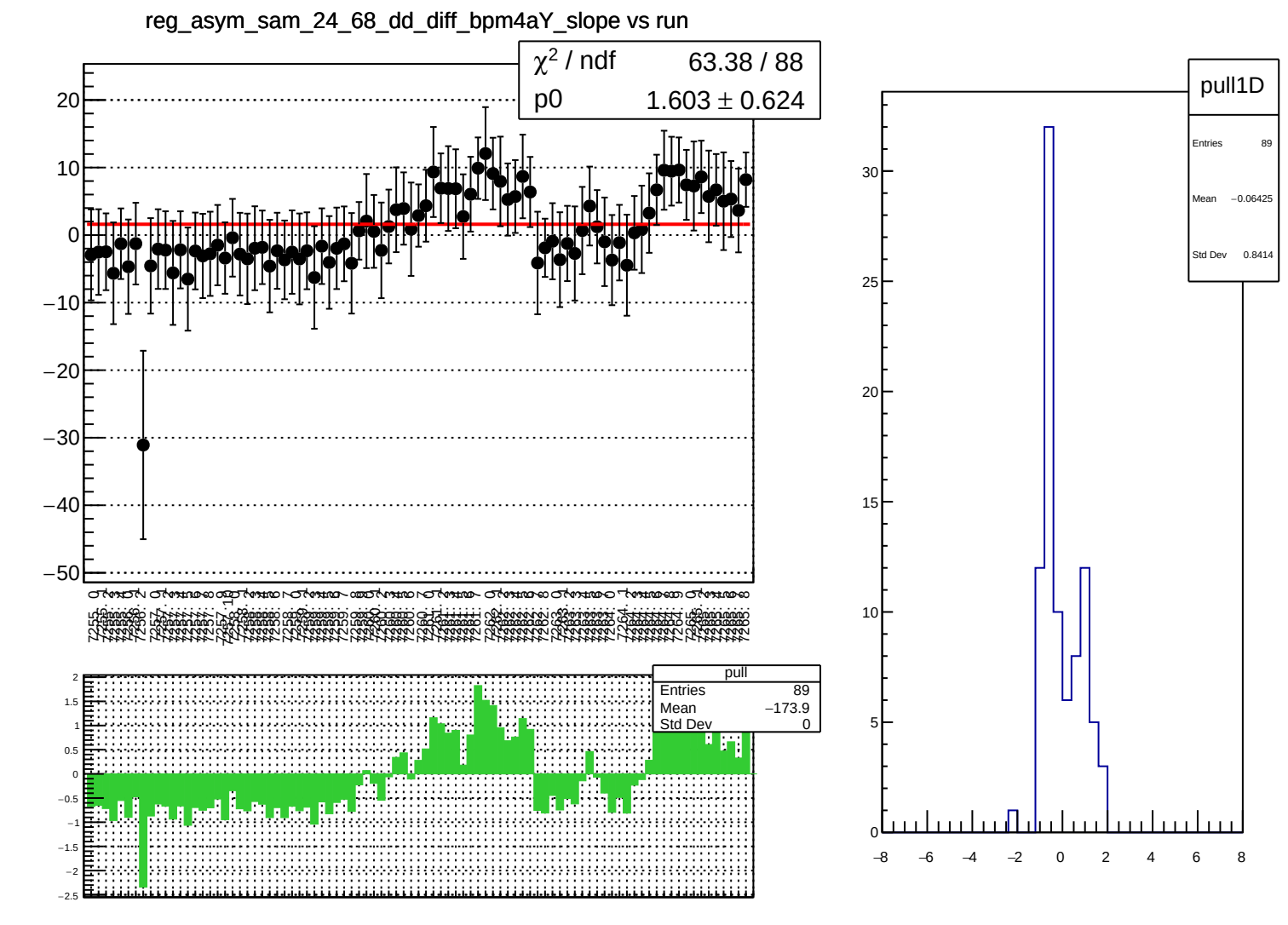

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.423 / 88
p0 −2.183 ± 0.2121
pull
Entries 89
Mean −187.7
Std Dev 0
pull1D
Entries 89
Mean 0.0192
Std Dev 0.3248

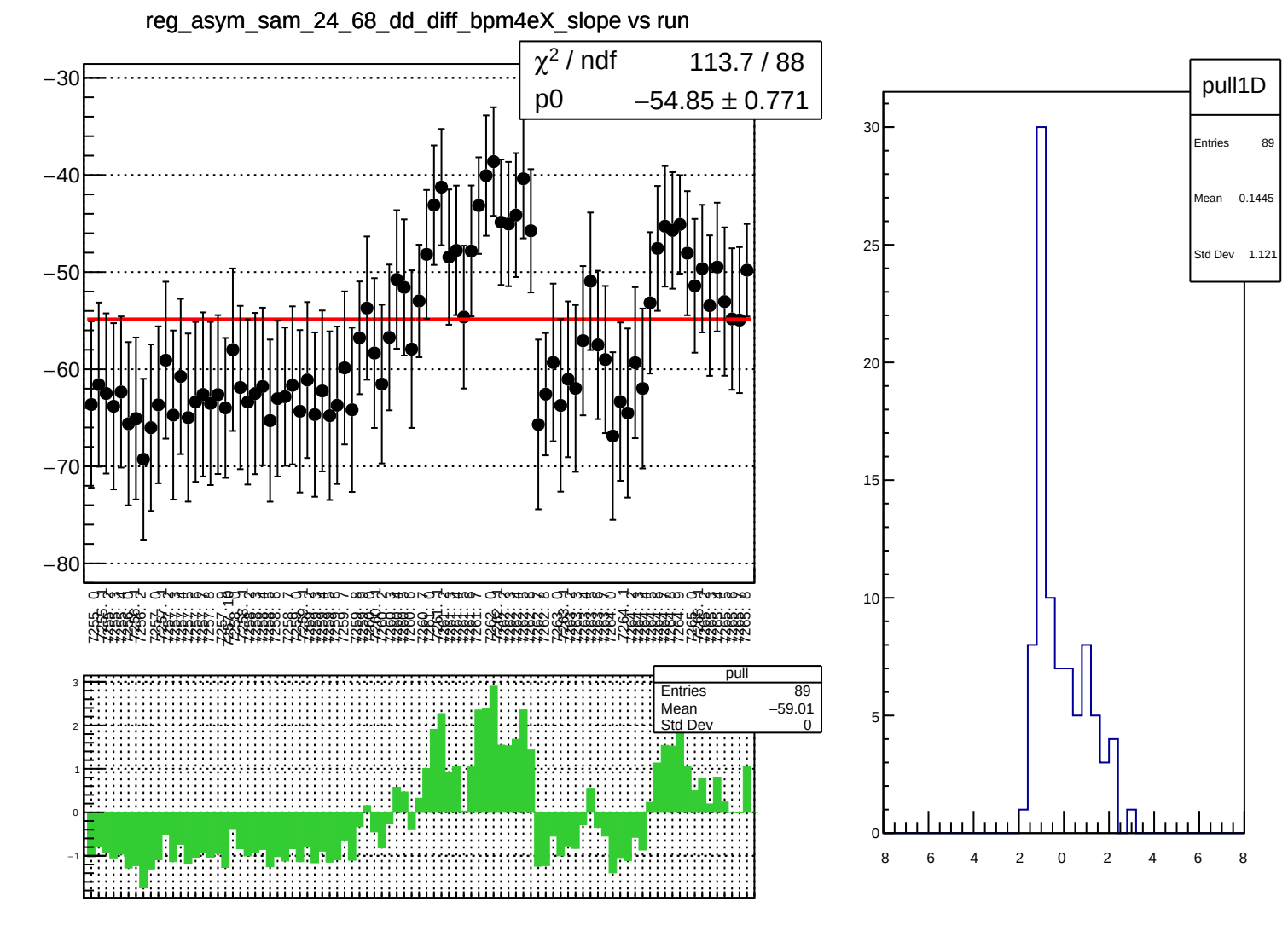

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.28 / 88
p0 22.15 ± 0.2626
pull
Entries 89
Mean −84.25
Std Dev 0
pull1D
Entries 89
Mean 0.03143
Std Dev 0.3994

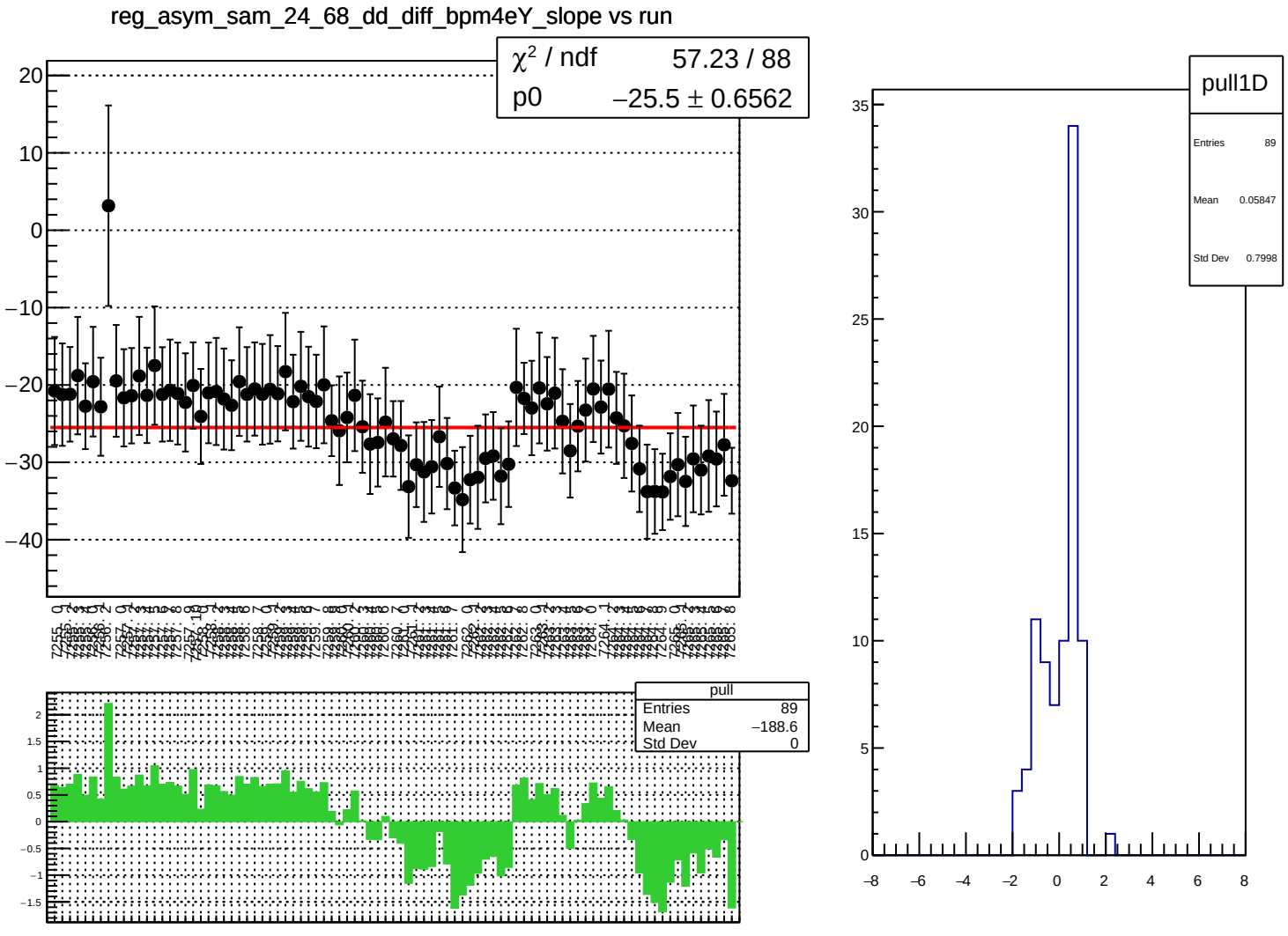

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.79 / 88
p0 23.96 ± 0.223
pull
Entries 89
Mean −359.6
Std Dev 0
pull1D
Entries 89
Mean −0.02329
Std Dev 0.5584

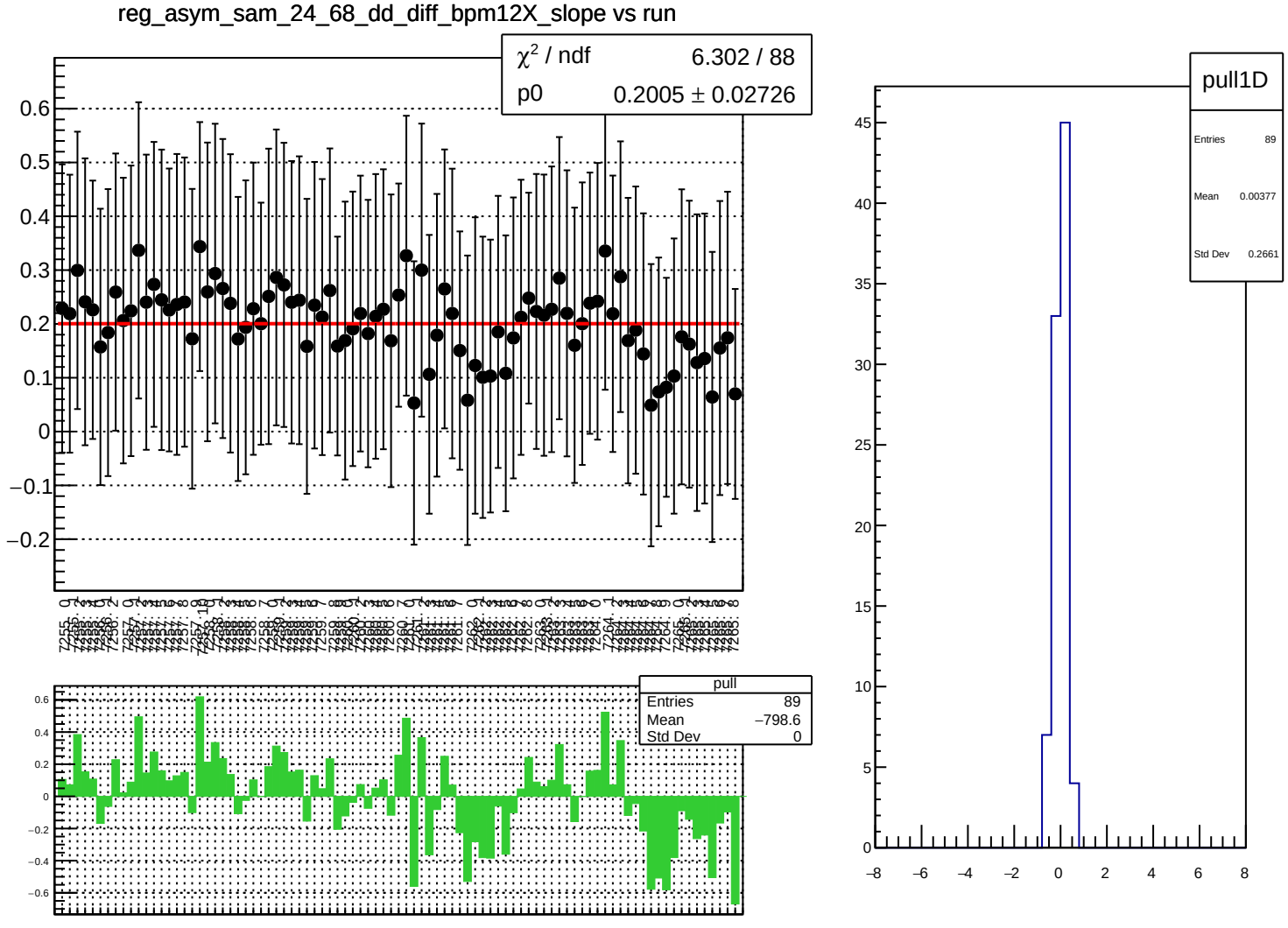

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 4.42 / 88
p0 −0.09879 ± 0.009239
pull
Entries 89
Mean 571.6
Std Dev 0
pull1D
Entries 89
Mean −0.002489
Std Dev 0.2228

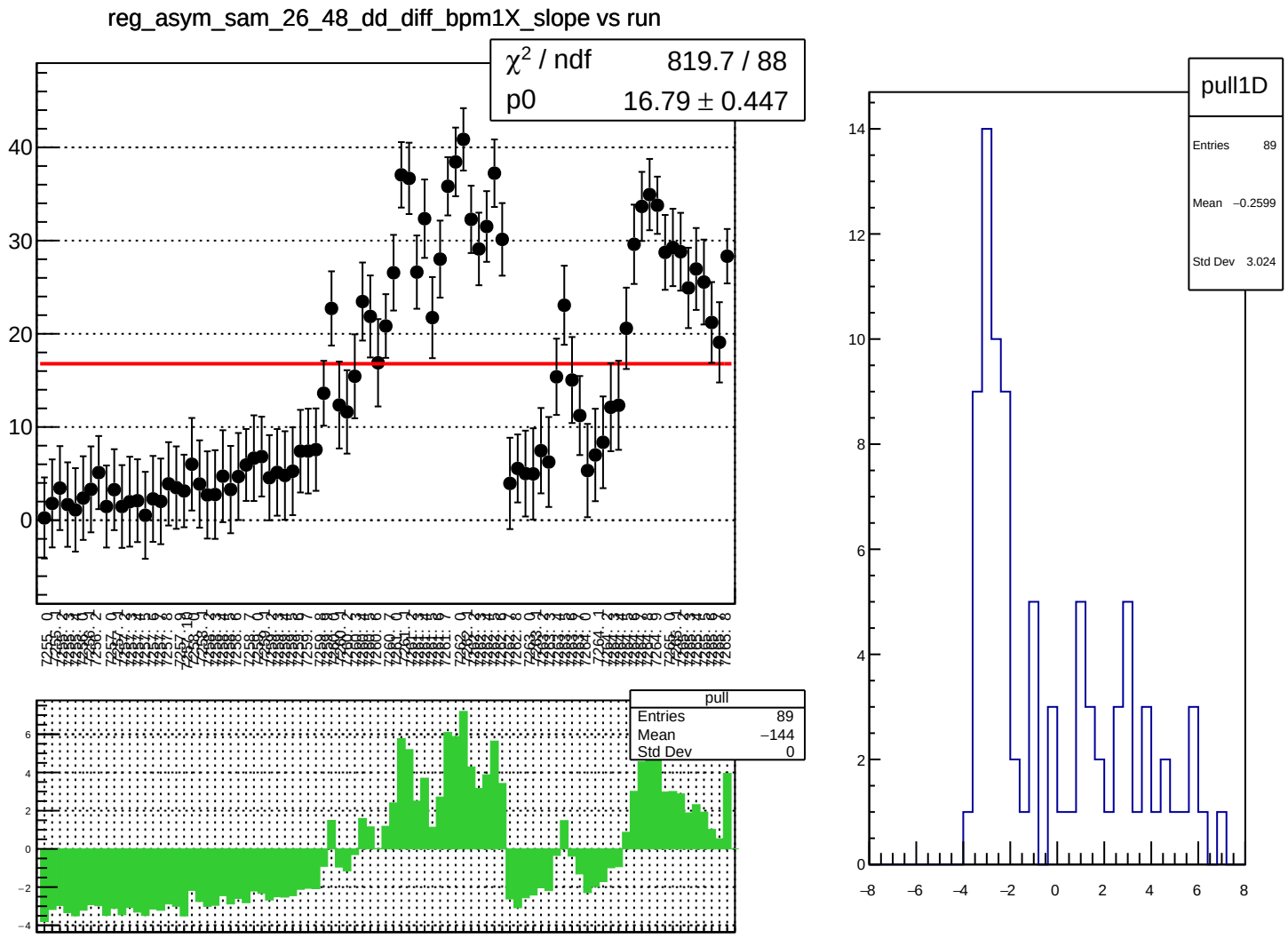

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 133.6 / 88
p0 −37.29 ± 0.7123
pull
Entries 89
Mean −65.19
Std Dev 0
pull1D
Entries 89
Mean 0.151
Std Dev 1.216

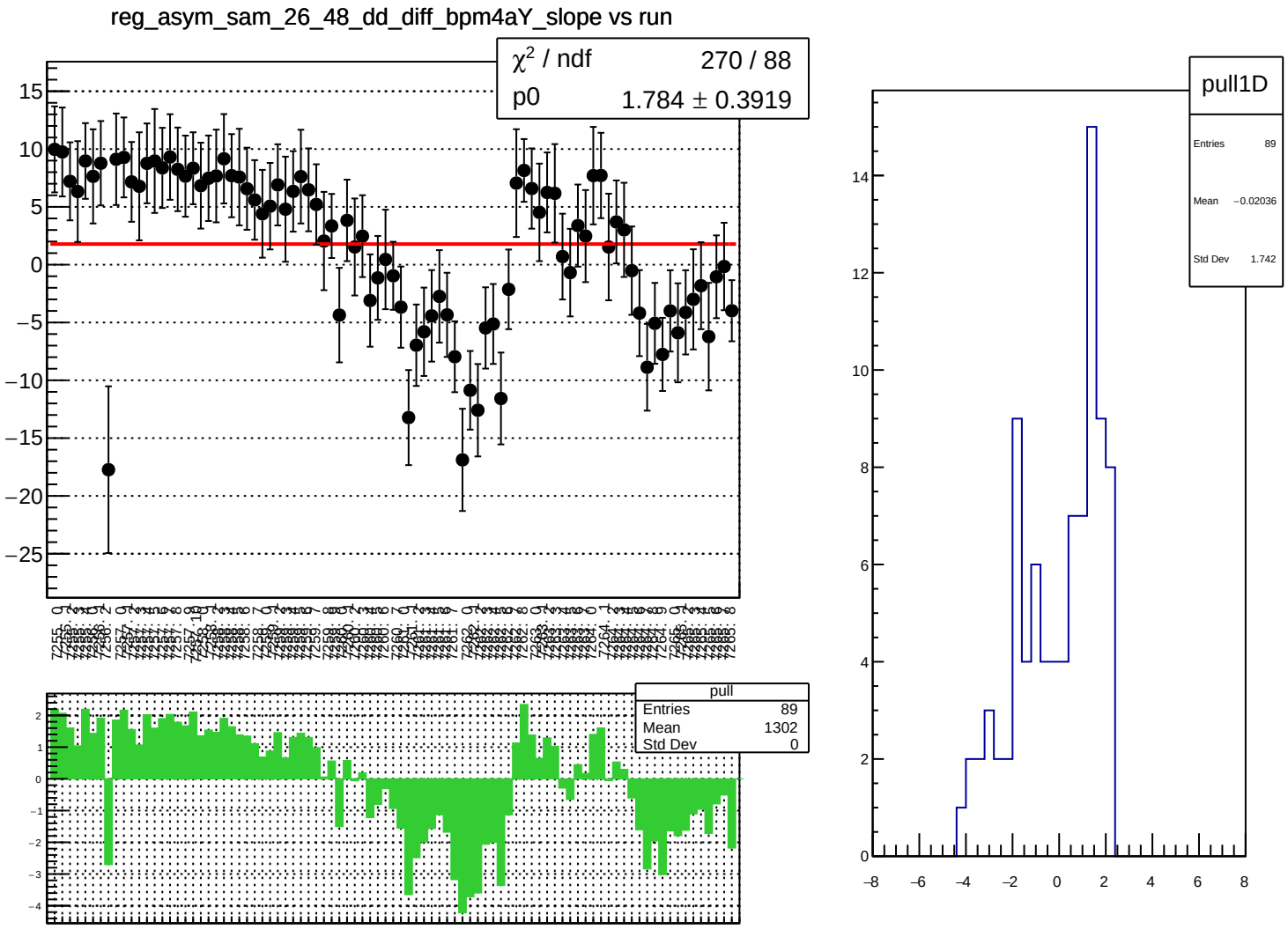

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.38 / 88
p0 1.603 ± 0.624
pull
Entries 89
Mean −173.9
Std Dev 0
pull1D
Entries 89
Mean −0.06425
Std Dev 0.8414

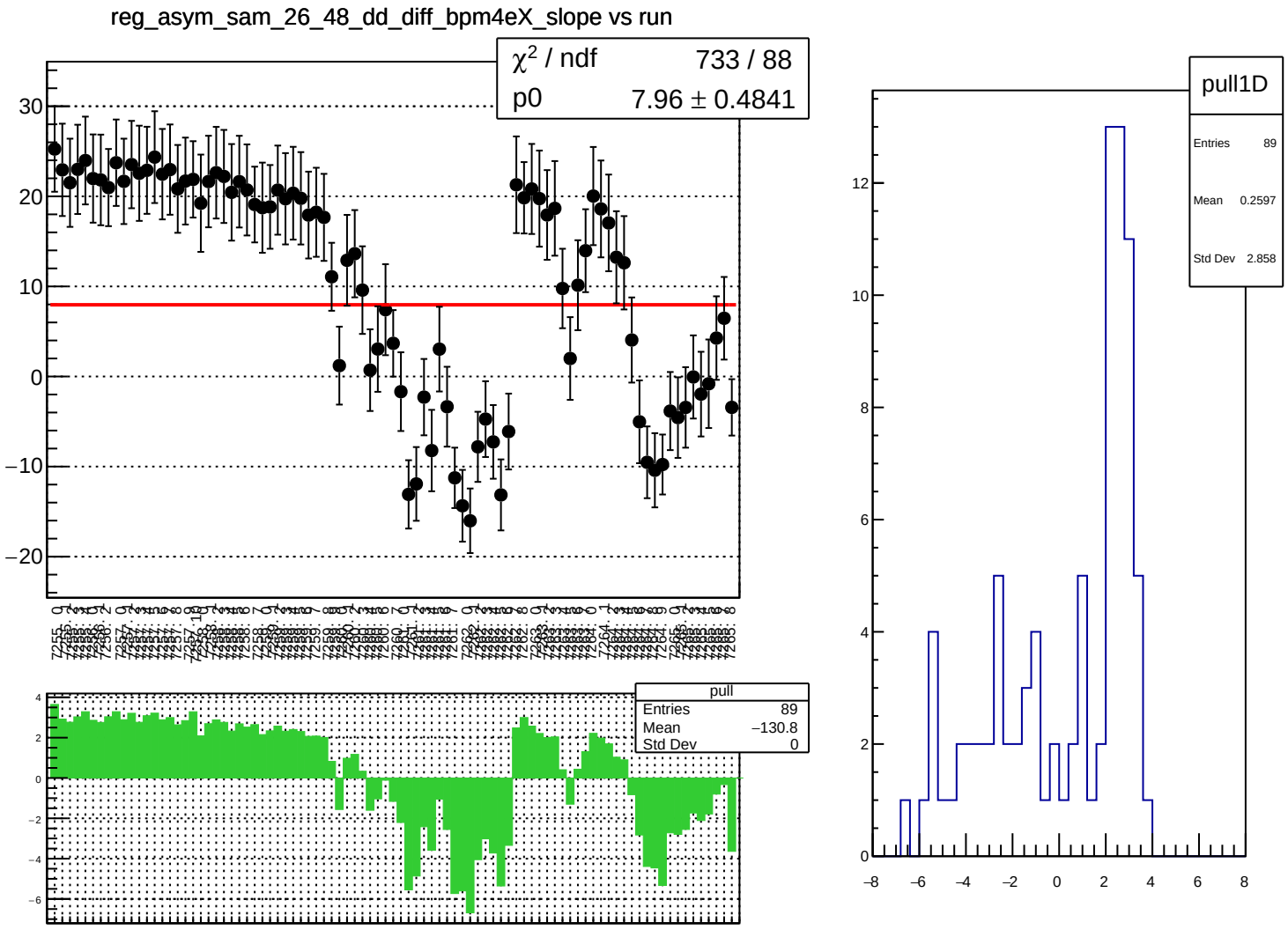

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 113.7 / 88
p0 −54.85 ± 0.771
pull
Entries 89
Mean −59.01
Std Dev 0
pull1D
Entries 89
Mean −0.1445
Std Dev 1.121

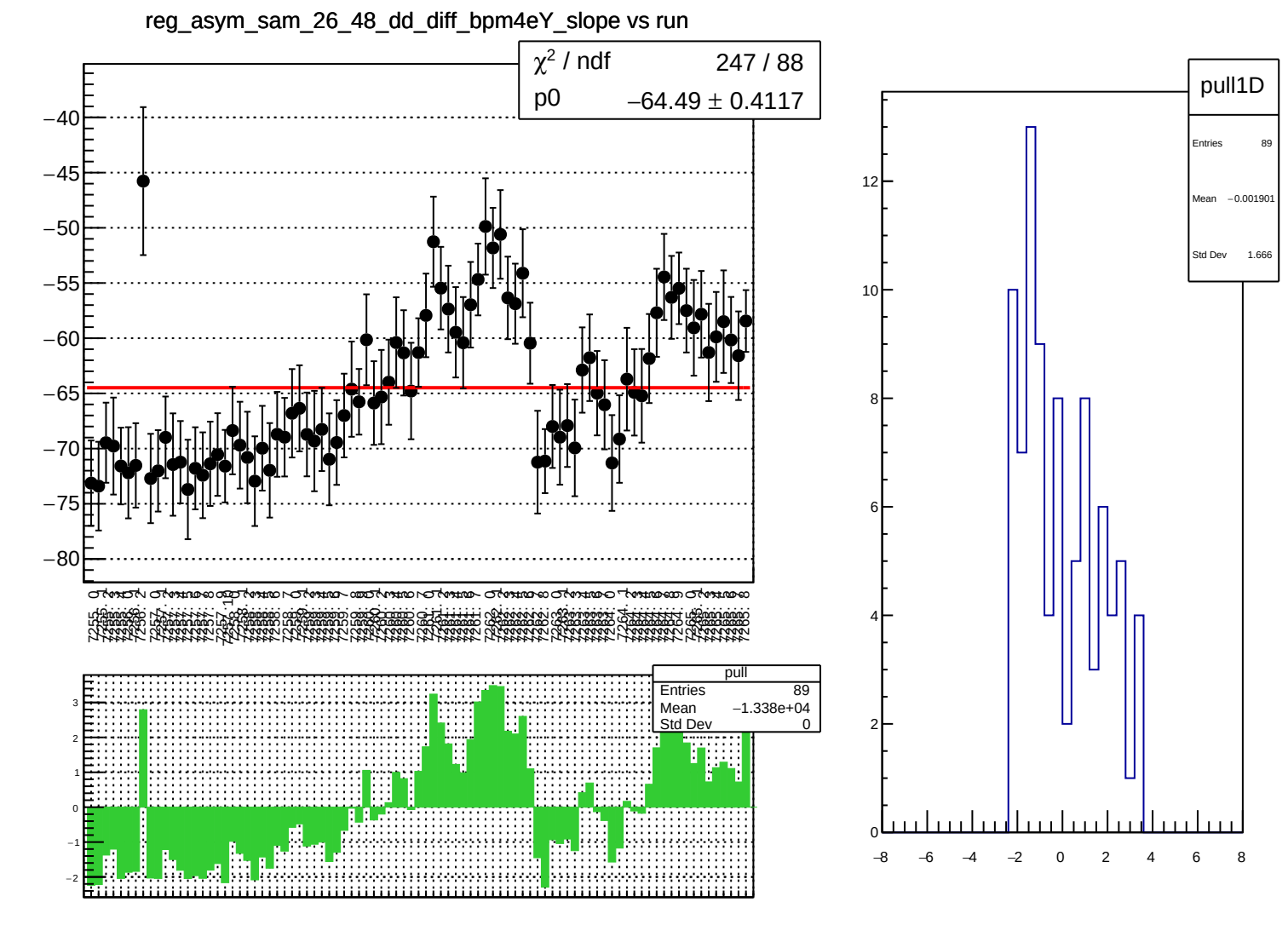

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.23 / 88
p0 −25.5 ± 0.6562
pull
Entries 89
Mean −188.6
Std Dev 0
pull1D
Entries 89
Mean 0.05847
Std Dev 0.7998

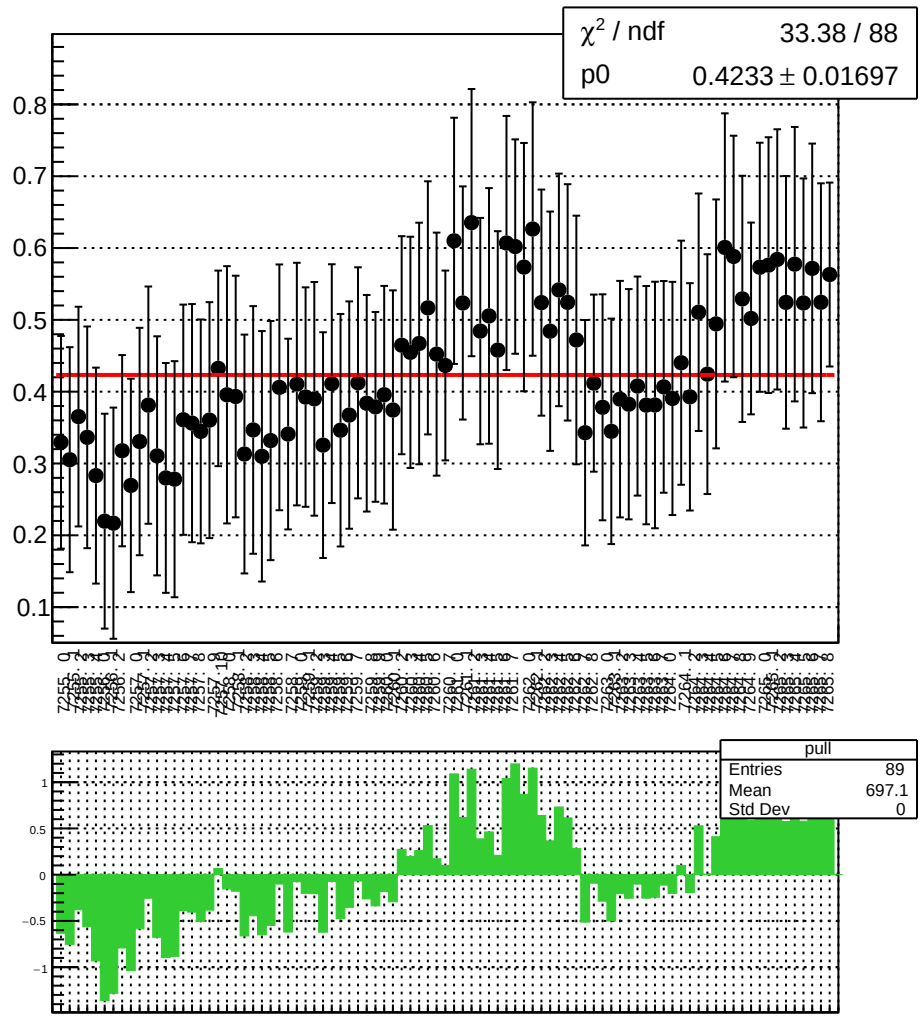

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 6.302 / 88
p0 0.2005 ± 0.02726
pull
Entries 89
Mean −798.6
Std Dev 0
pull1D
Entries 89
Mean 0.00377
Std Dev 0.2661

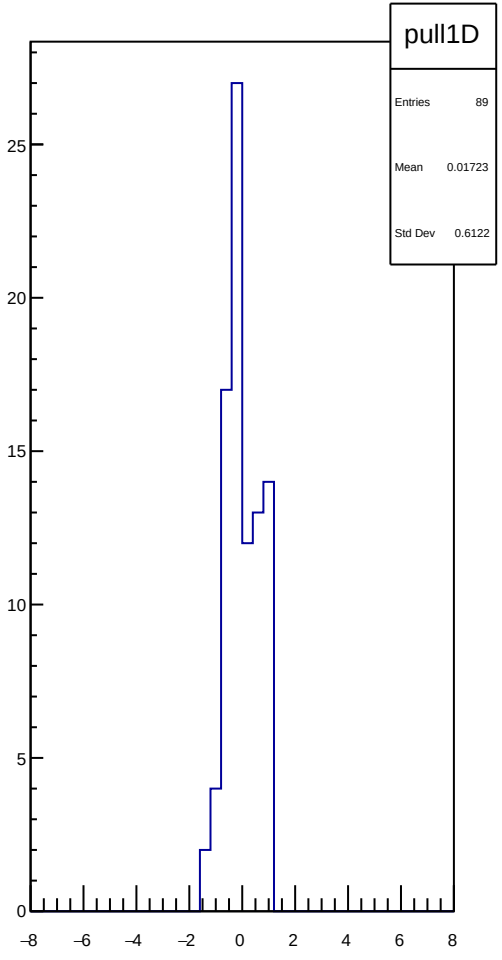

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 819.7 / 88
p0 16.79 ± 0.447
pull
Entries 89
Mean −144
Std Dev 0
pull1D
Entries 89
Mean −0.2599
Std Dev 3.024

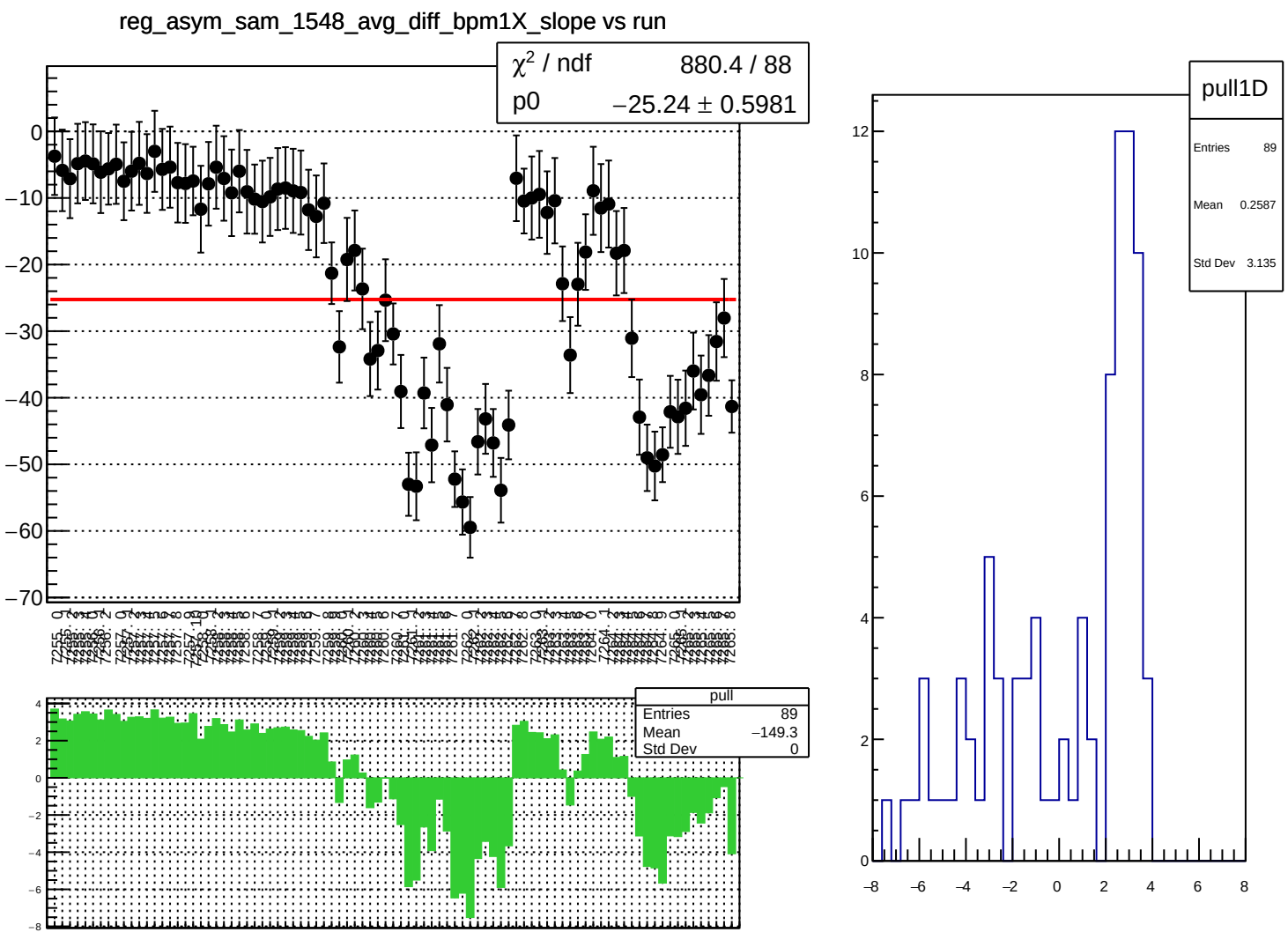

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 270 / 88
p0 1.784 ± 0.3919
pull
Entries 89
Mean 1302
Std Dev 0
pull1D
Entries 89
Mean −0.02036
Std Dev 1.742

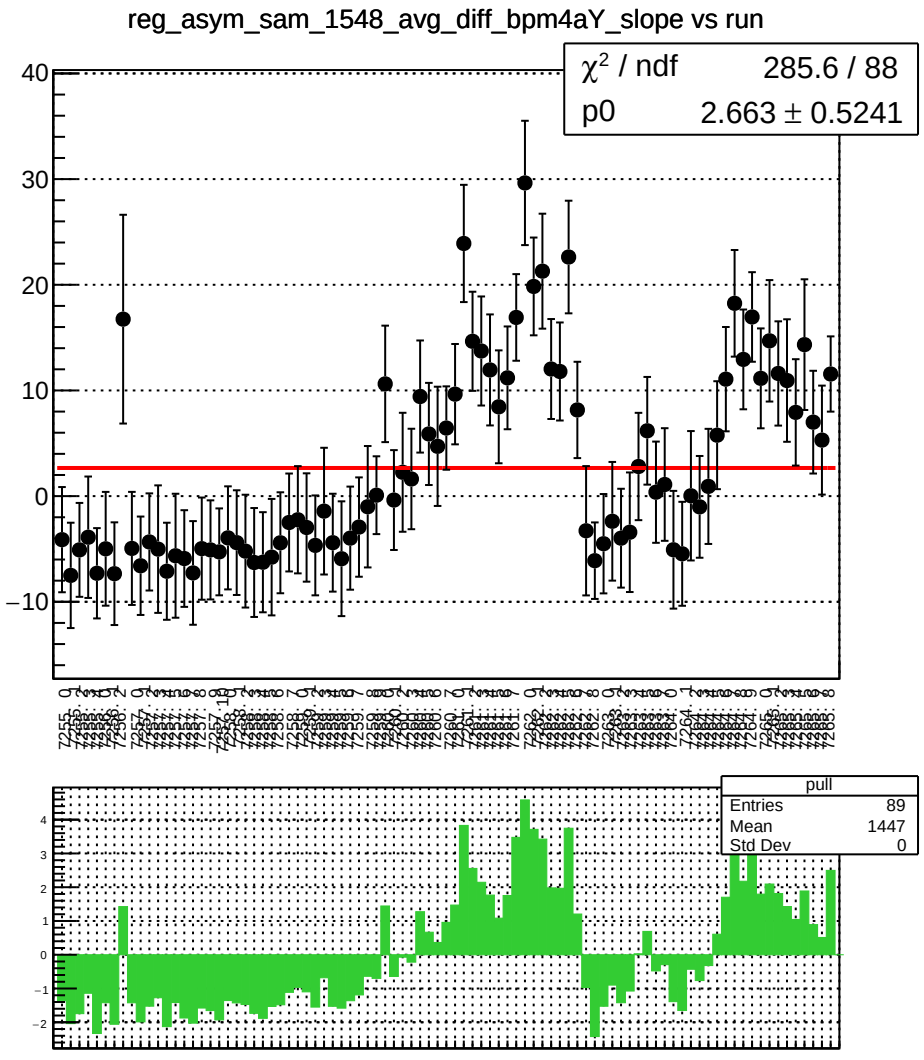

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 733 / 88
p0 7.96 ± 0.4841
pull
Entries 89
Mean −130.8
Std Dev 0
pull1D
Entries 89
Mean 0.2597
Std Dev 2.858

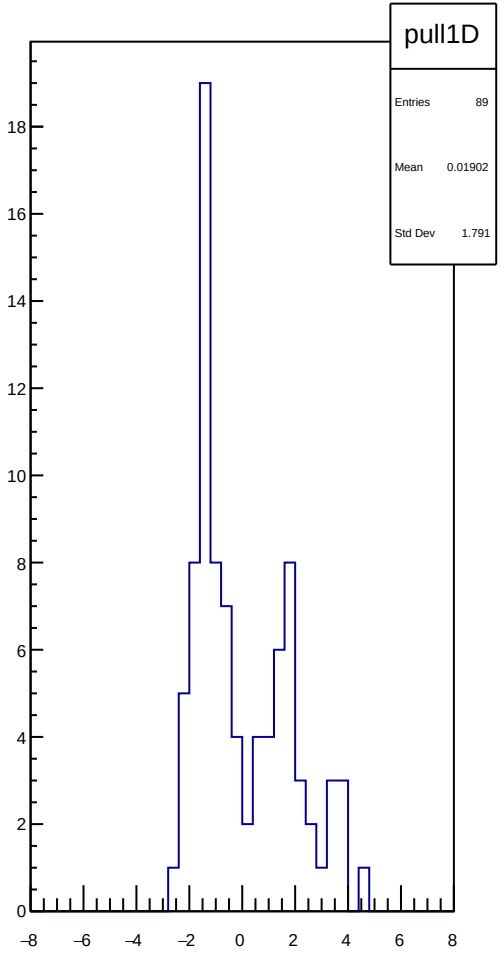

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 247 / 88
p0 −64.49 ± 0.4117
pull
Entries 89
Mean −1.338e+04
Std Dev 0
pull1D
Entries 89
Mean −0.001901
Std Dev 1.666

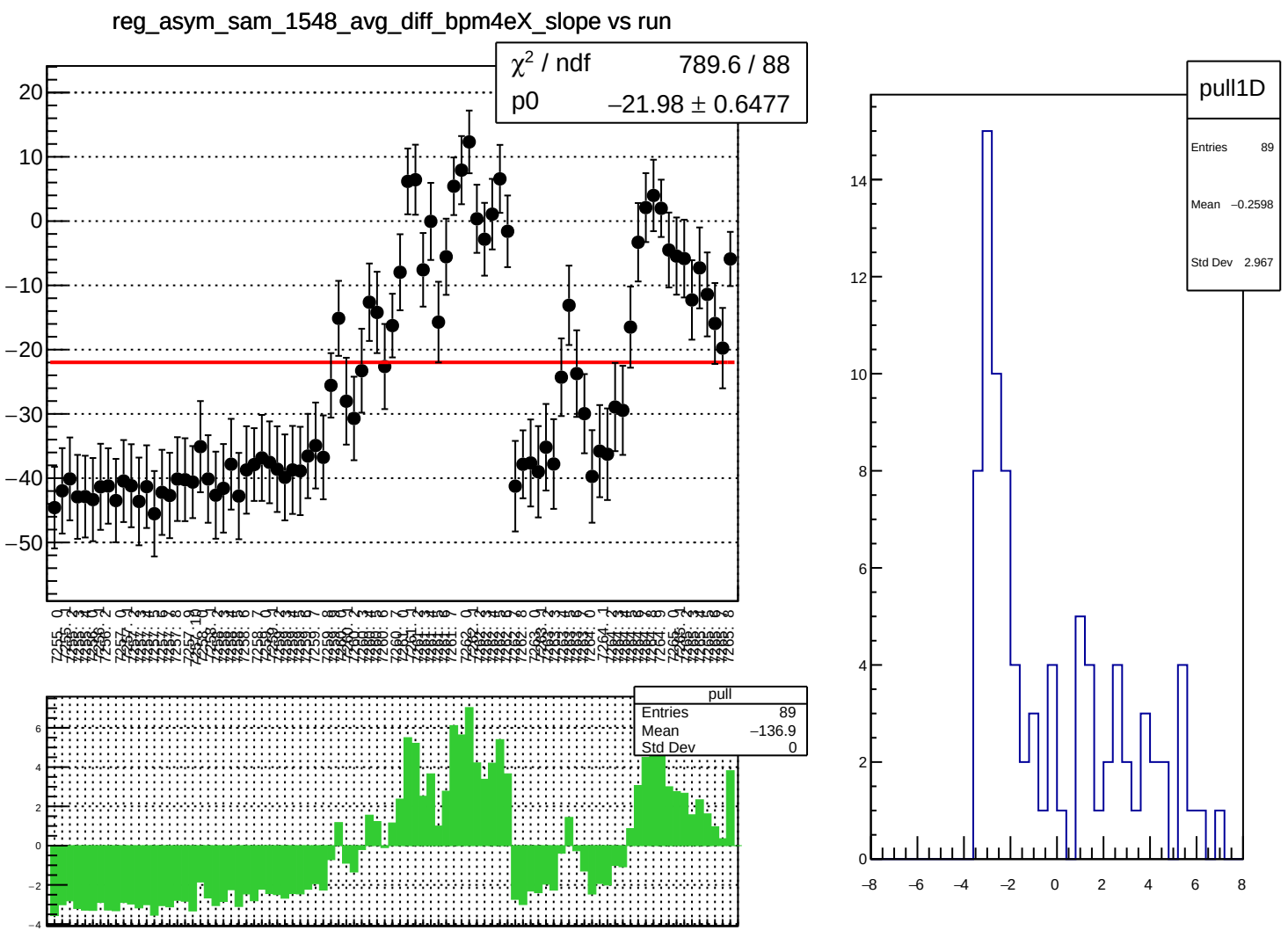

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 33.38 / 88
p0 0.4233 ± 0.01697
pull
Entries 89
Mean 697.1
Std Dev 0

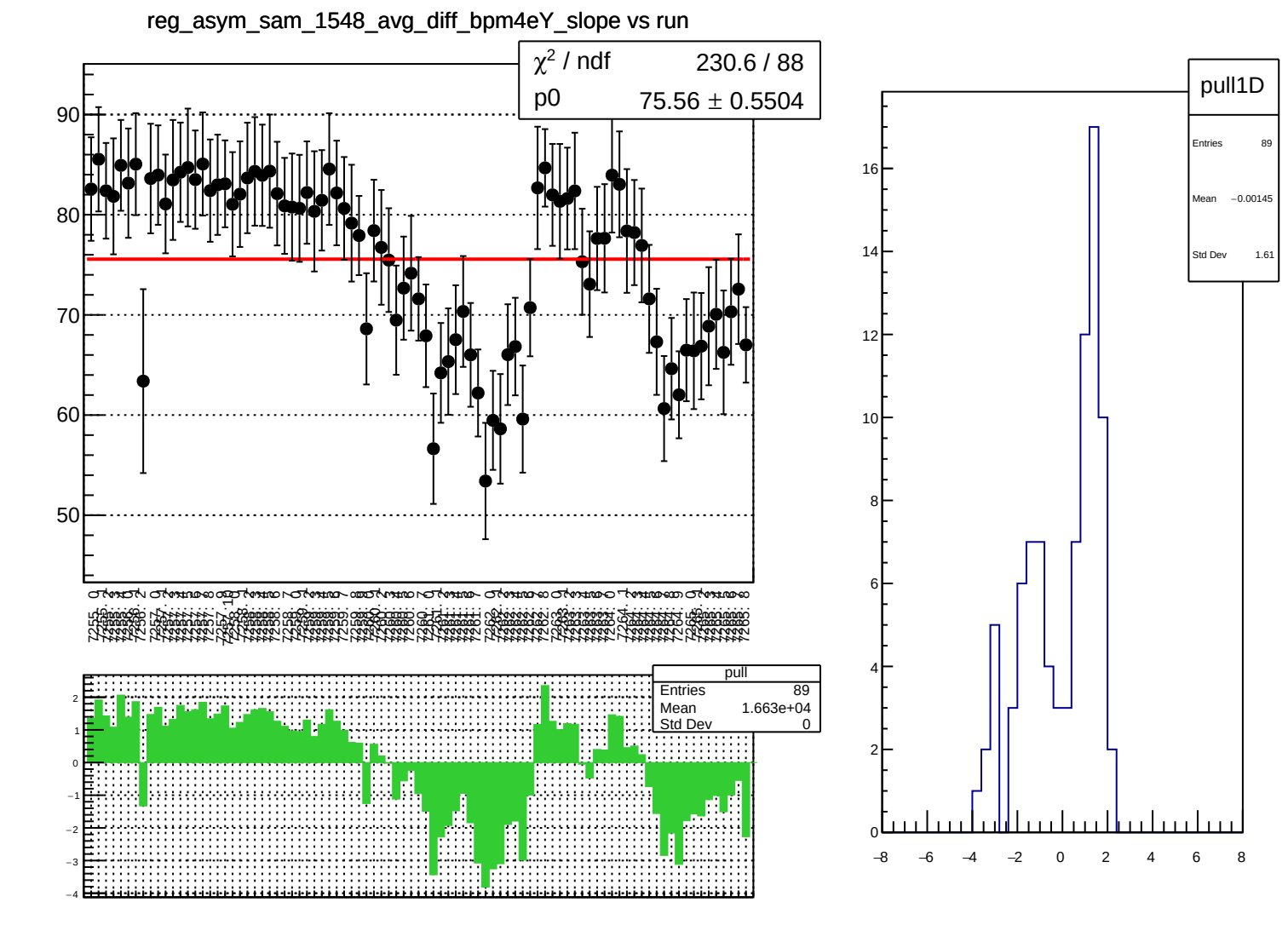

pull1D
Entries 89
Mean 0.01723
Std Dev 0.6122

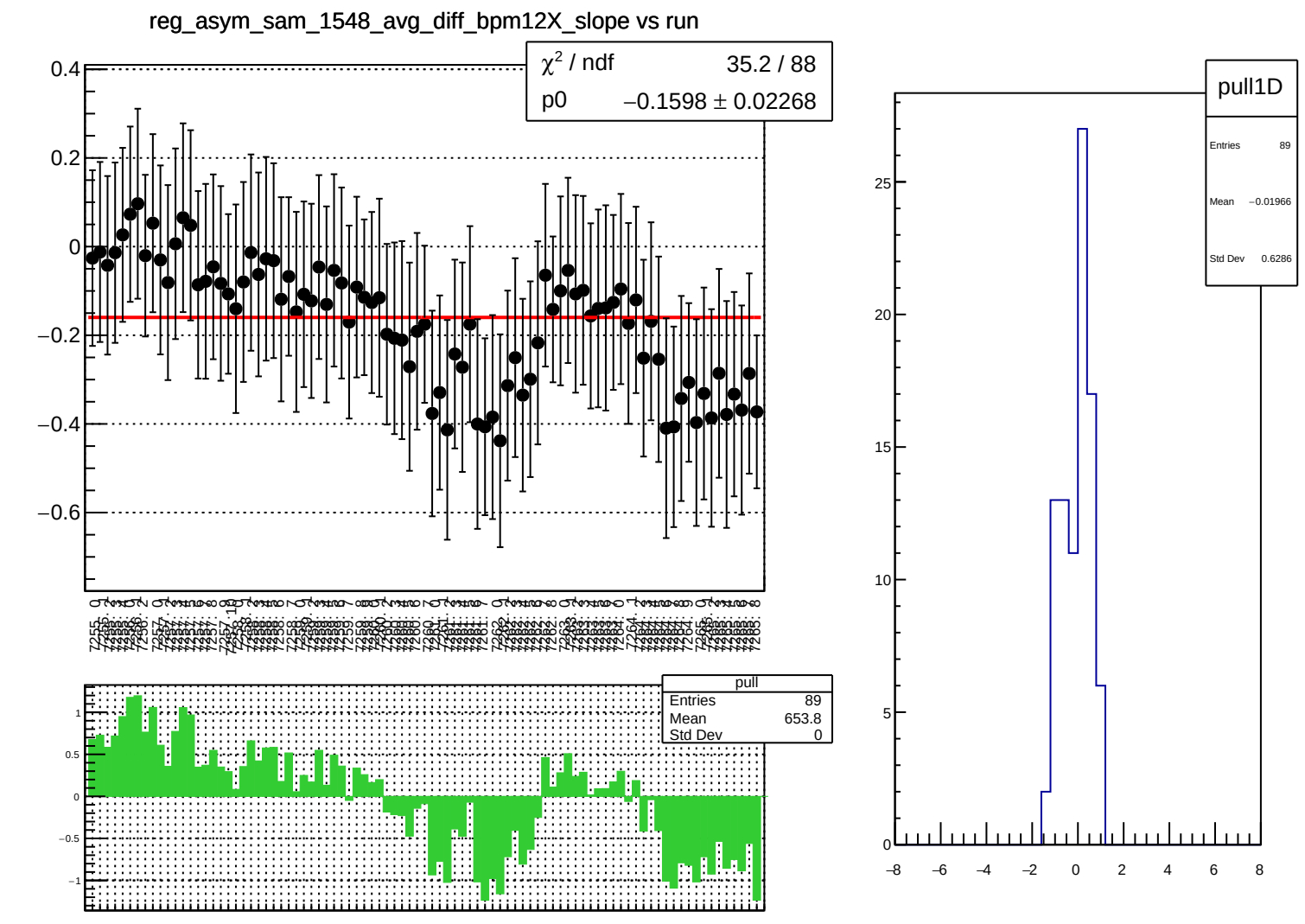

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 880.4 / 88
p0 −25.24 ± 0.5981
pull
Entries 89
Mean −149.3
Std Dev 0
pull1D
Entries 89
Mean 0.2587
Std Dev 3.135

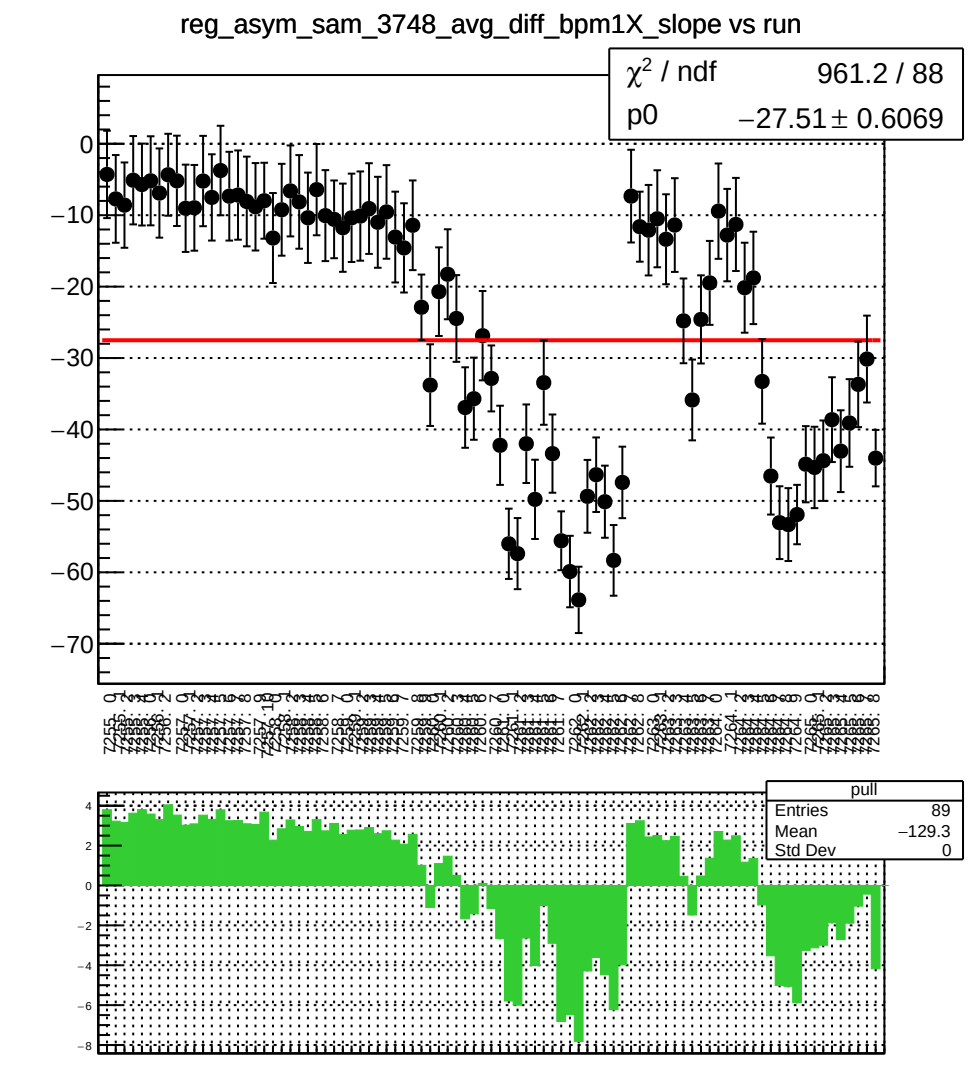

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 285.6 / 88
p0 2.663 ± 0.5241
pull
Entries 89
Mean 1447
Std Dev 0

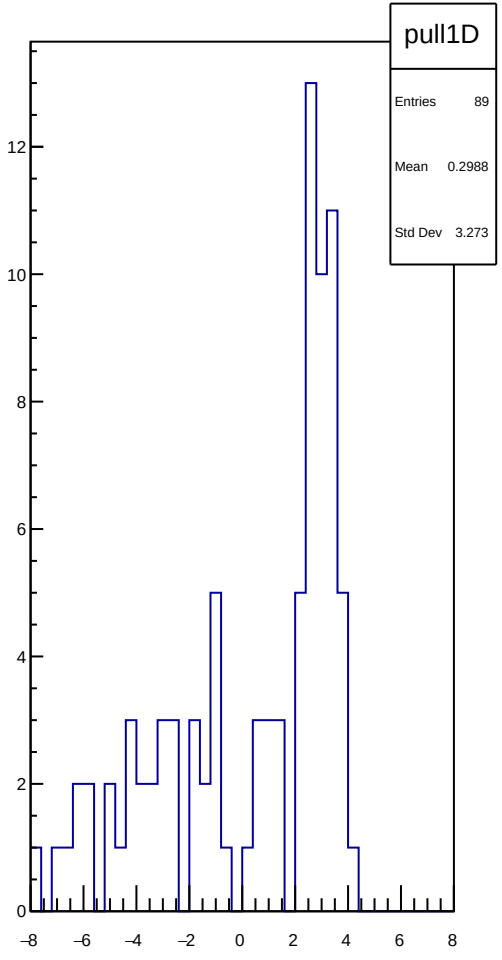

pull1D
Entries 89
Mean 0.01902
Std Dev 1.791

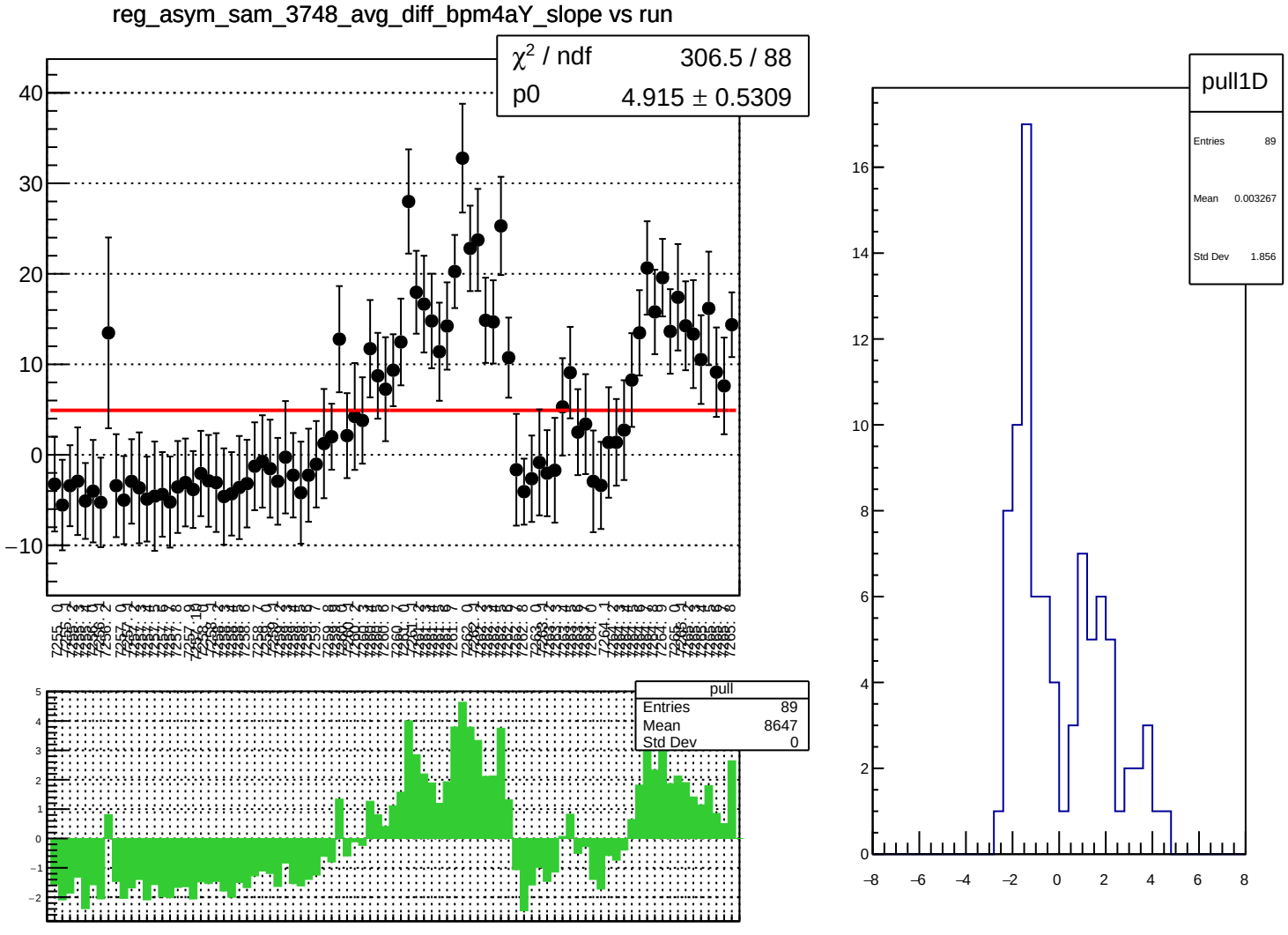

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 789.6 / 88
p0 −21.98 ± 0.6477
pull
Entries 89
Mean −136.9
Std Dev 0
pull1D
Entries 89
Mean −0.2598
Std Dev 2.967

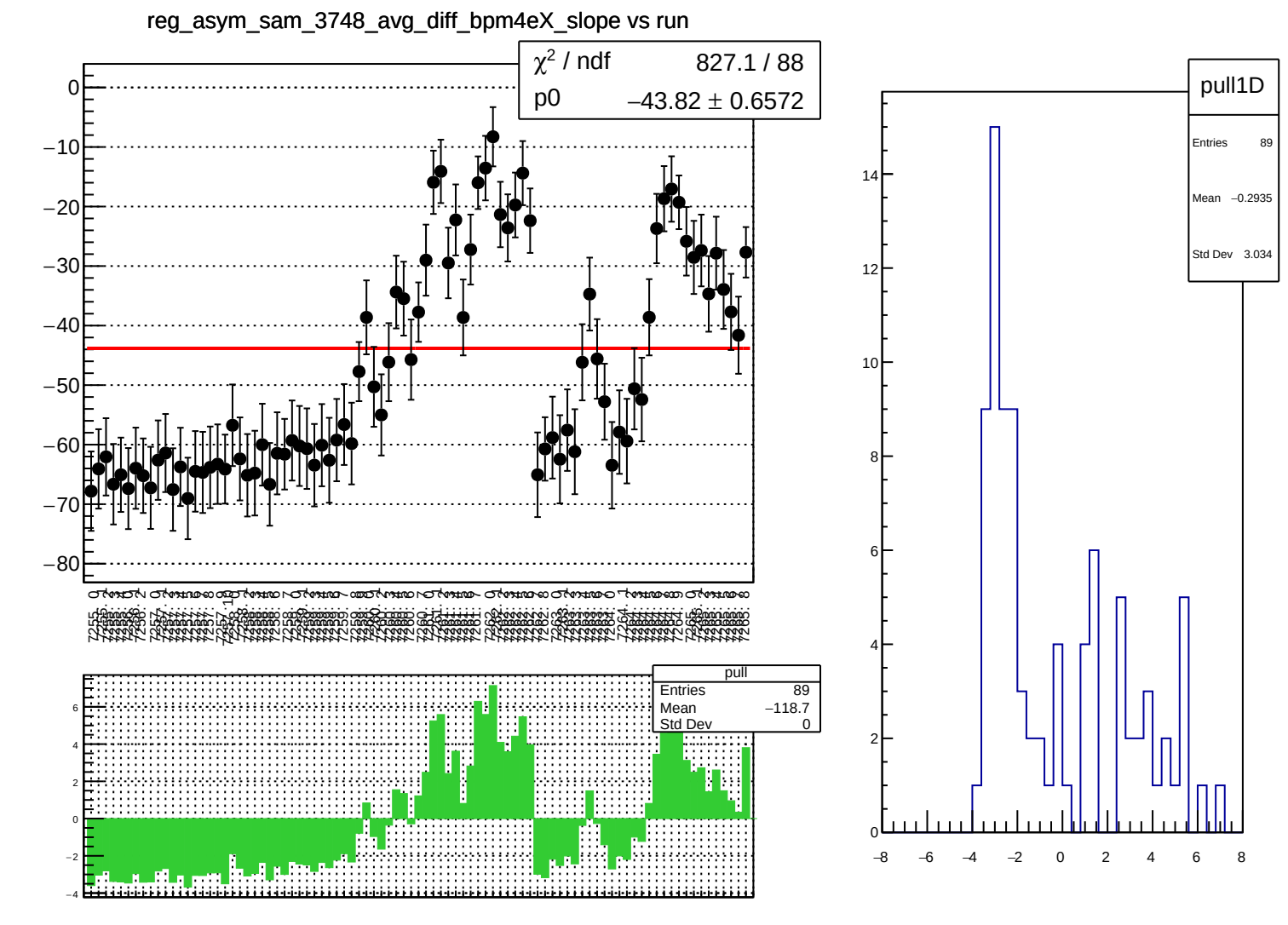

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 230.6 / 88
p0 75.56 ± 0.5504
pull
Entries 89
Mean 1.663e+04
Std Dev 0
pull1D
Entries 89
Mean −0.00145
Std Dev 1.61

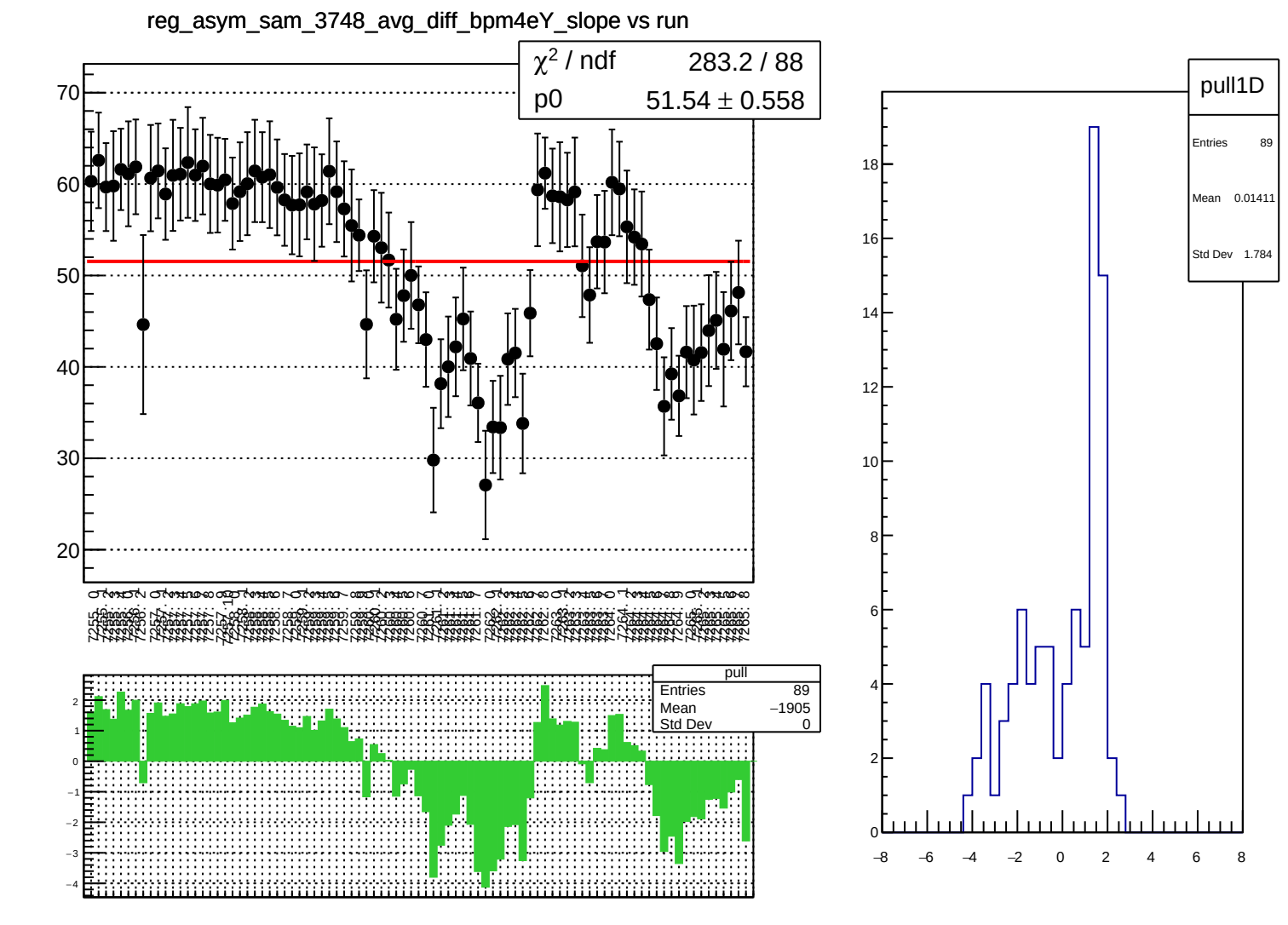

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 35.2 / 88
p0 −0.1598 ± 0.02268
pull
Entries 89
Mean 653.8
Std Dev 0
pull1D
Entries 89
Mean −0.01966
Std Dev 0.6286

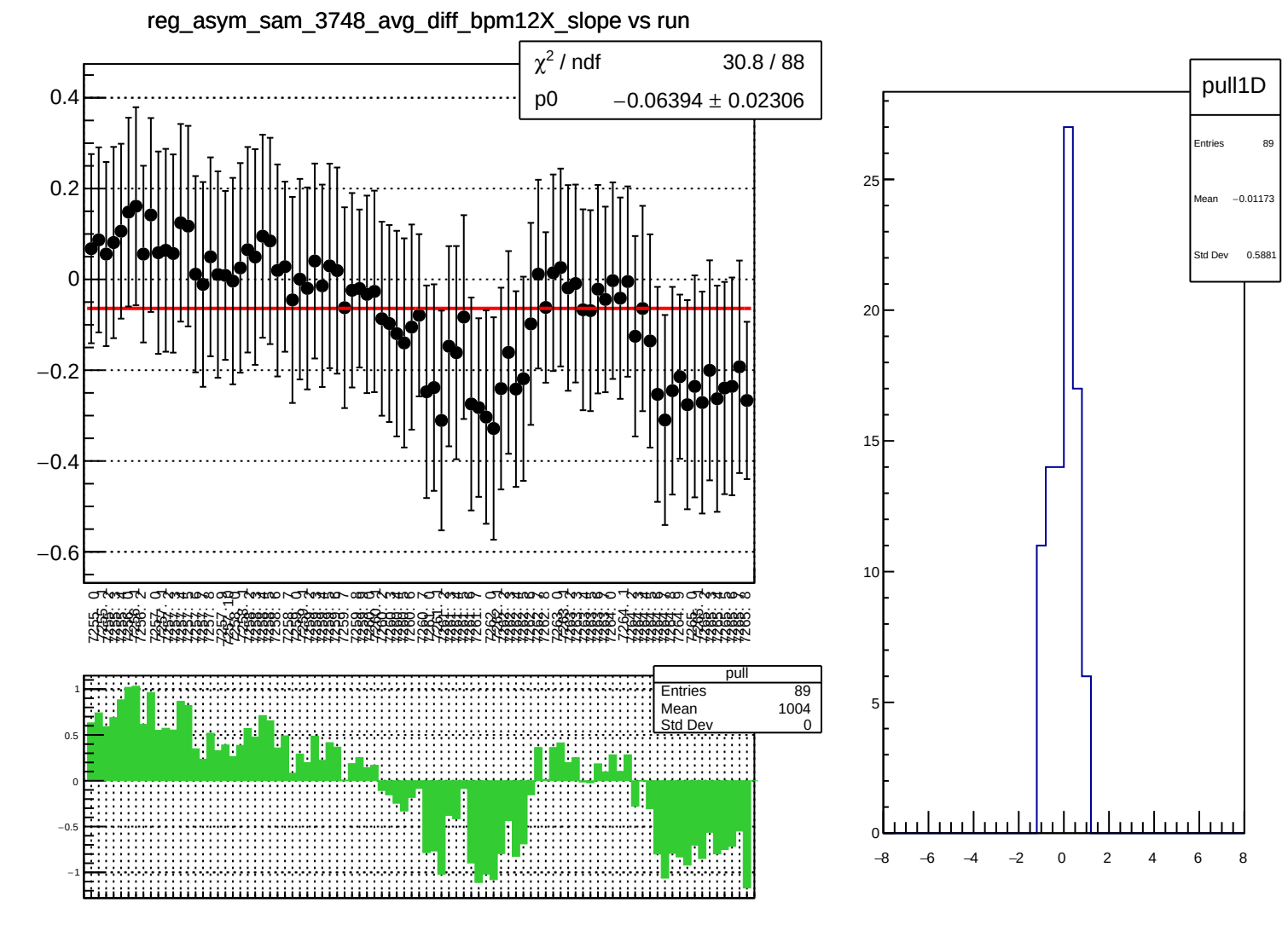

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 961.2 / 88
p0 −27.51 ± 0.6069
pull
Entries 89
Mean −129.3
Std Dev 0

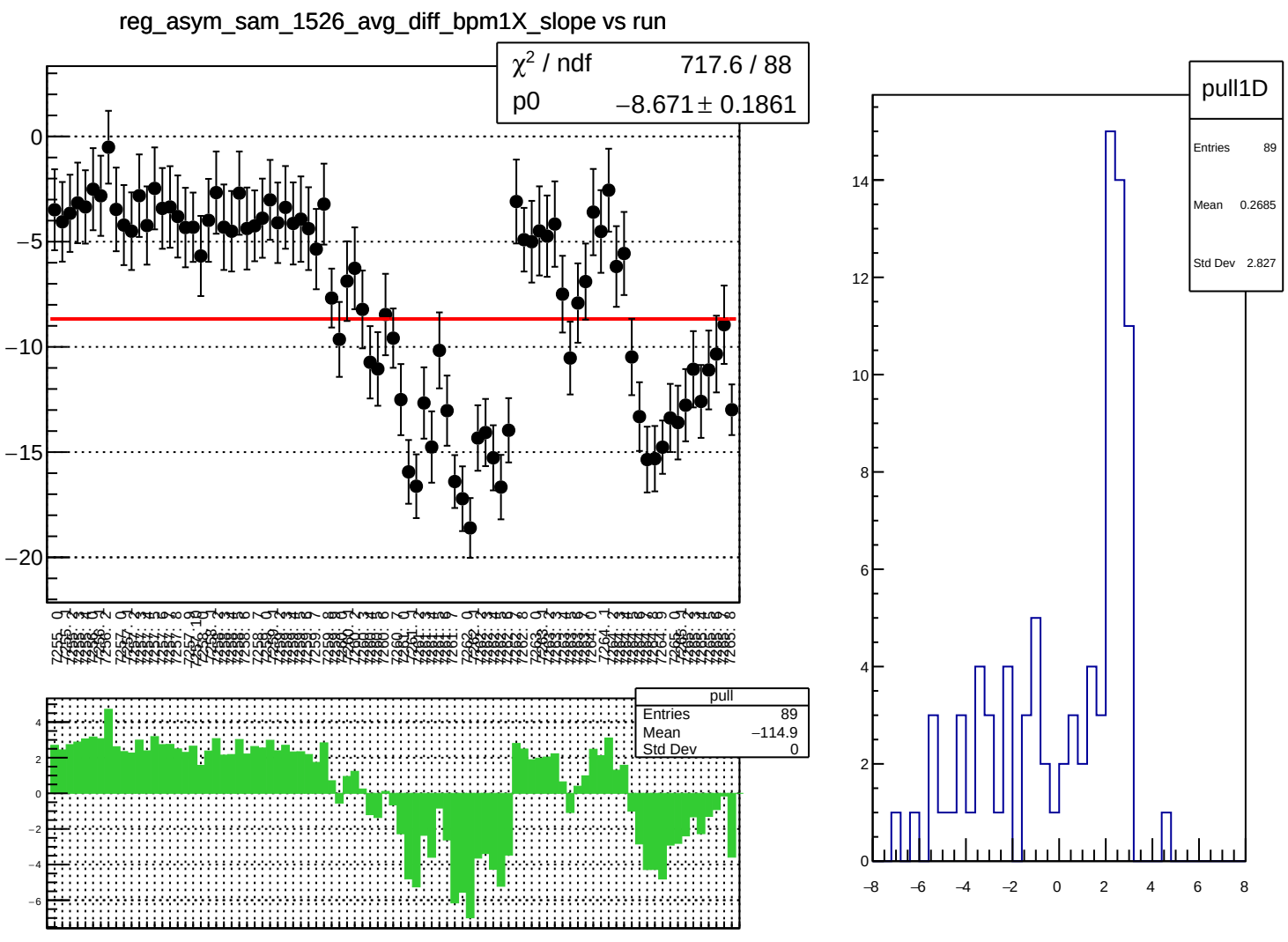

pull1D
Entries 89
Mean 0.2988
Std Dev 3.273

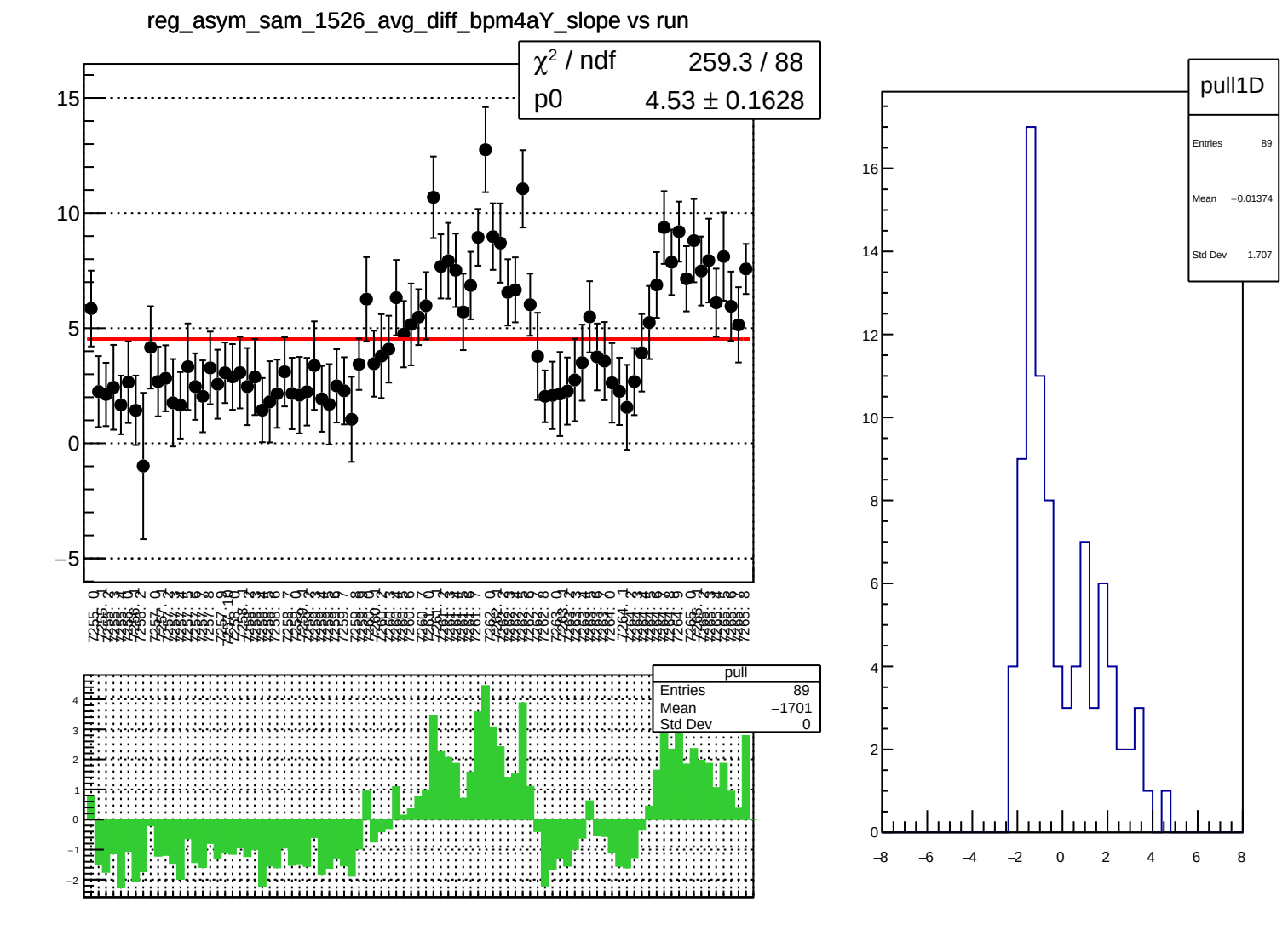

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 306.5 / 88
p0 4.915 ± 0.5309
pull
Entries 89
Mean 8647
Std Dev 0
pull1D
Entries 89
Mean 0.003267
Std Dev 1.856

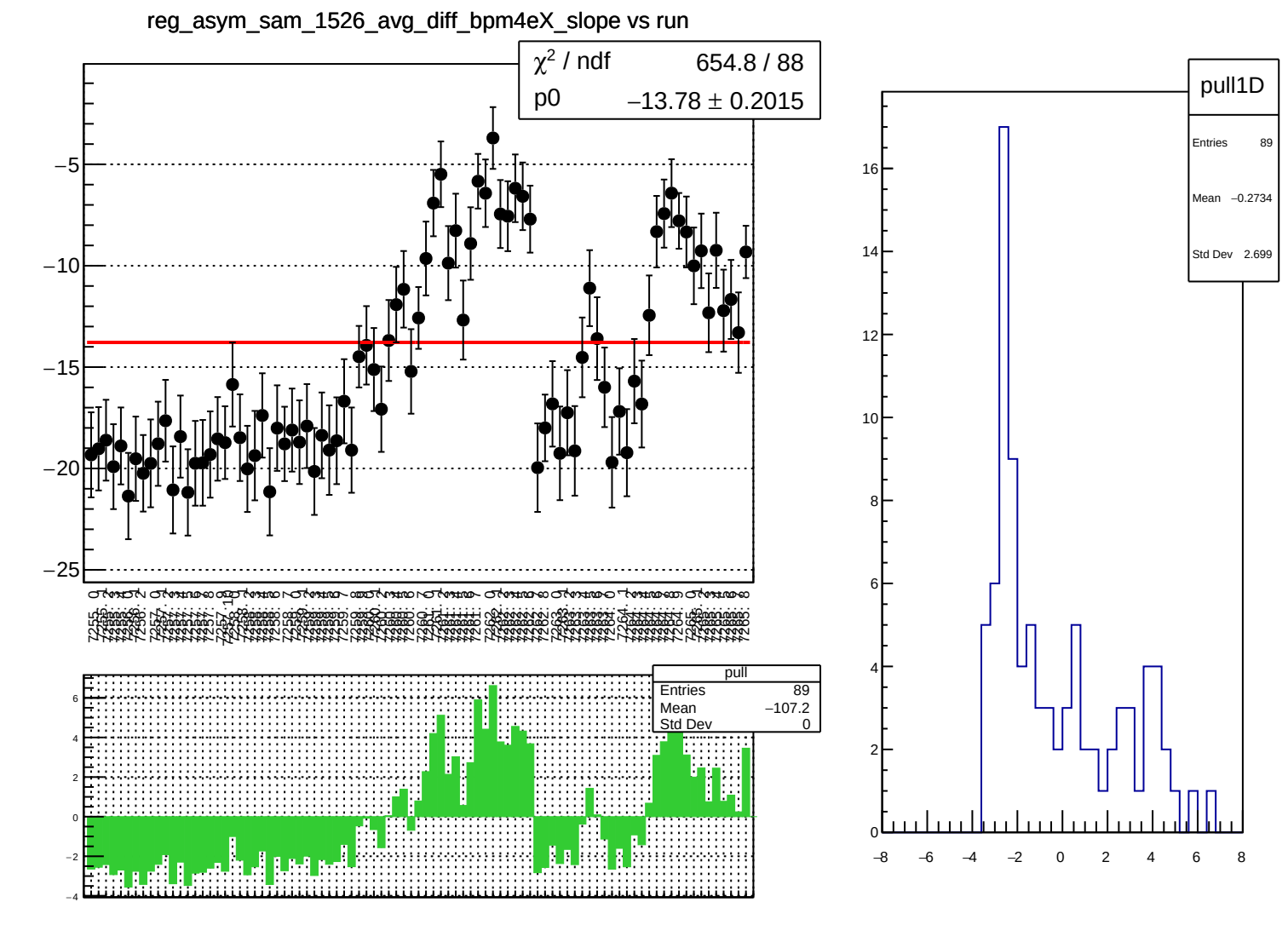

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 827.1 / 88
p0 −43.82 ± 0.6572
pull
Entries 89
Mean −118.7
Std Dev 0
pull1D
Entries 89
Mean −0.2935
Std Dev 3.034

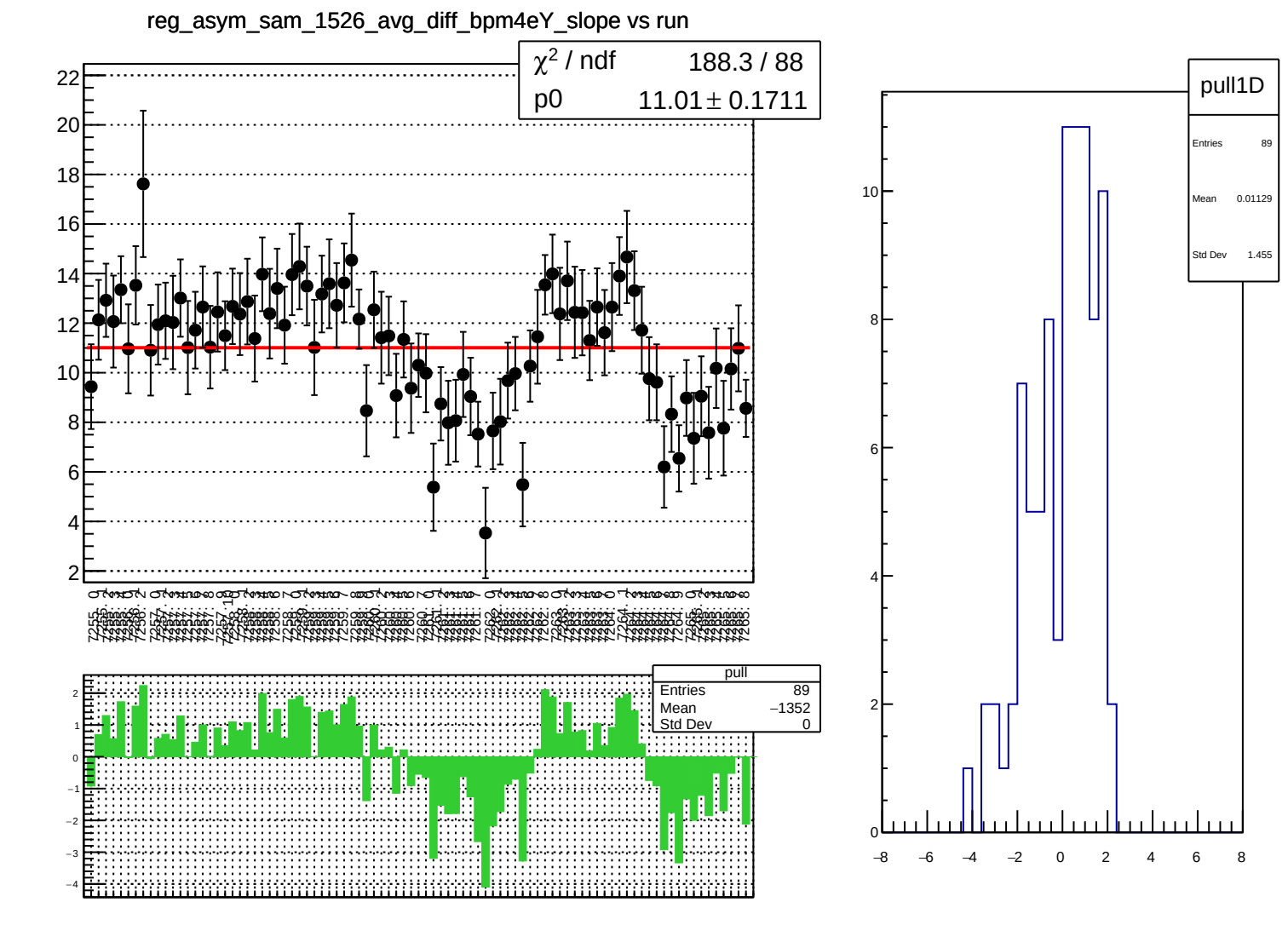

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 283.2 / 88
p0 51.54 ± 0.558
pull
Entries 89
Mean −1905
Std Dev 0
pull1D
Entries 89
Mean 0.01411
Std Dev 1.784

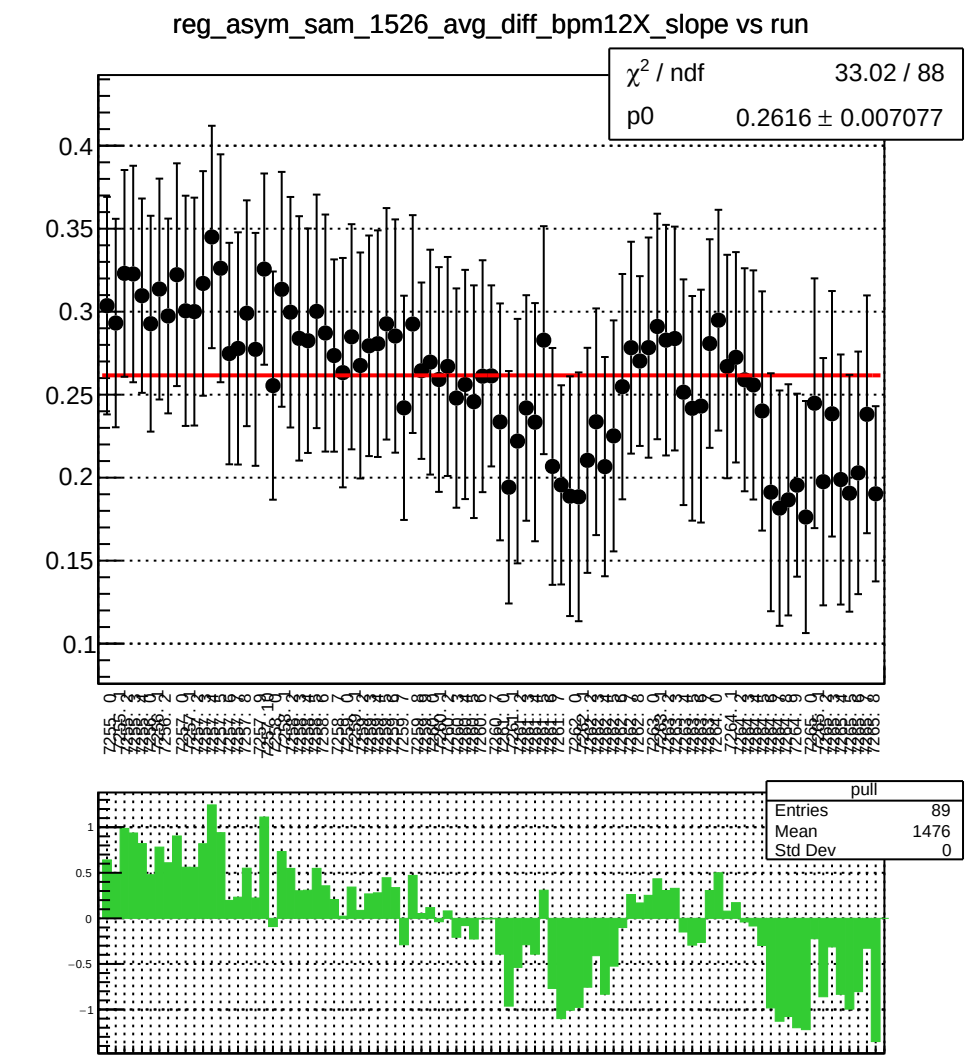

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 30.8 / 88
p0 −0.06394 ± 0.02306
pull
Entries 89
Mean 1004
Std Dev 0
pull1D
Entries 89
Mean −0.01173
Std Dev 0.5881

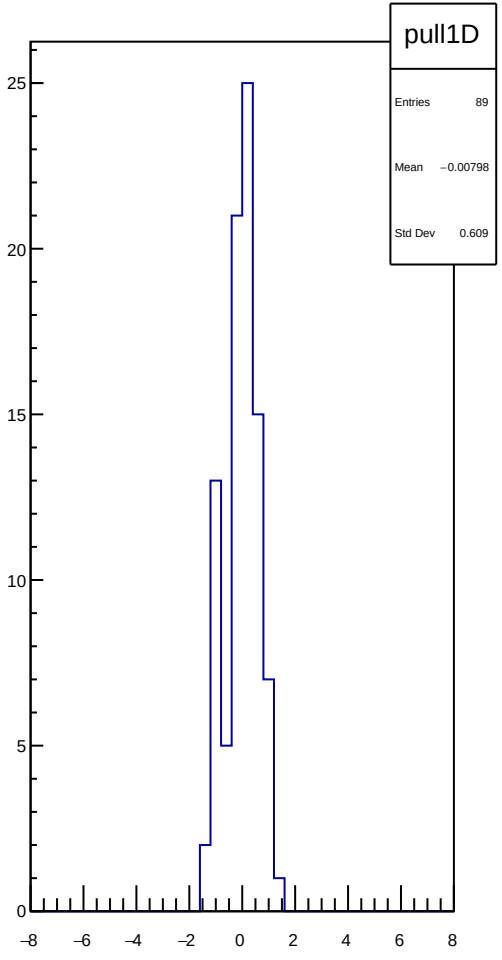

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 717.6 / 88
p0 −8.671 ± 0.1861
0
−5
−10
−15
−20
pull
Entries 89
Mean −114.9
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 89
Mean 0.2685
Std Dev 2.827
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

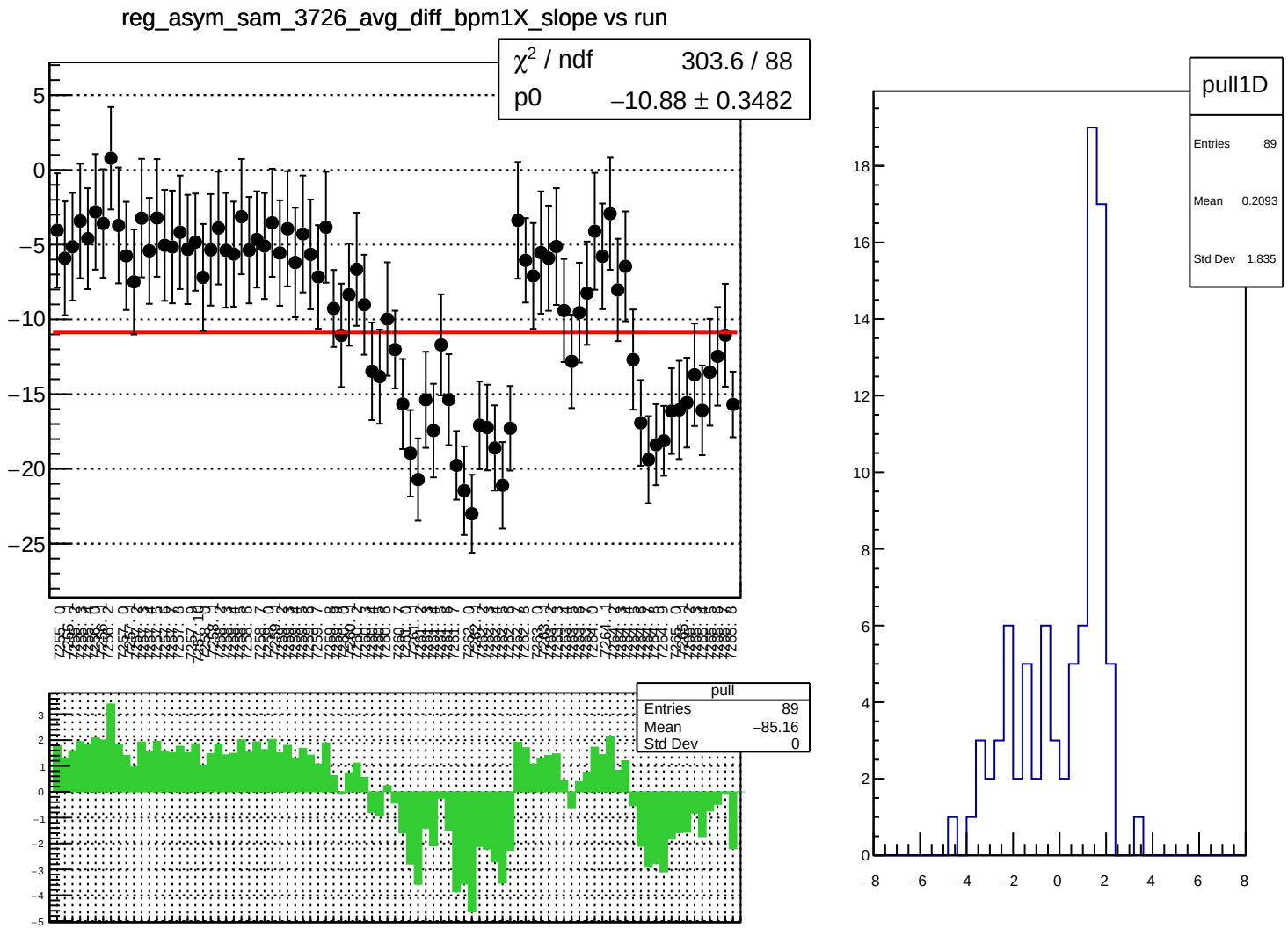

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 259.3 / 88
p0 4.53 ± 0.1628
pull
Entries 89
Mean −1701
Std Dev 0
pull1D
Entries 89
Mean −0.01374
Std Dev 1.707

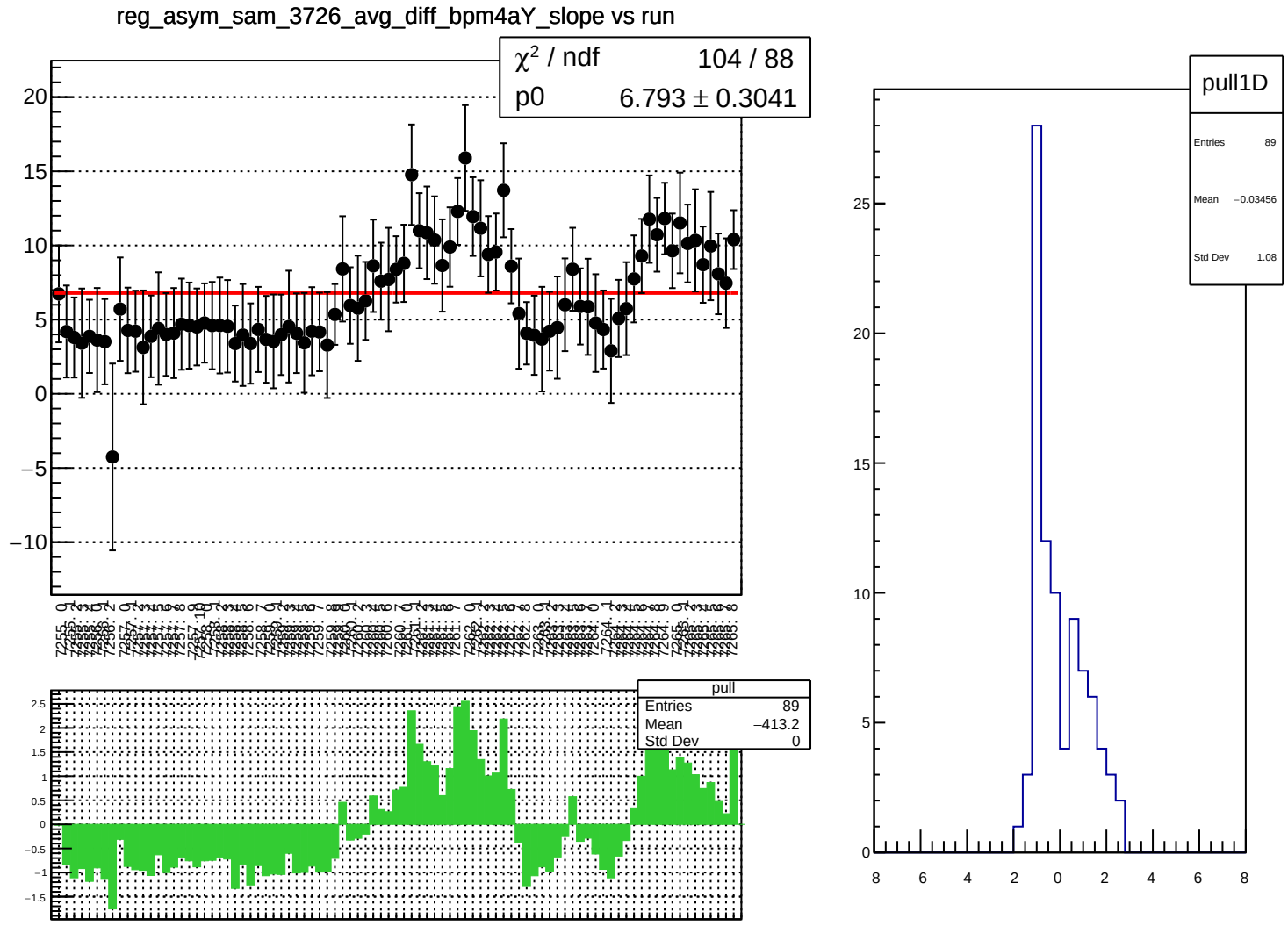

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 654.8 / 88
p0 −13.78 ± 0.2015
pull
Entries 89
Mean −107.2
Std Dev 0
pull1D
Entries 89
Mean −0.2734
Std Dev 2.699

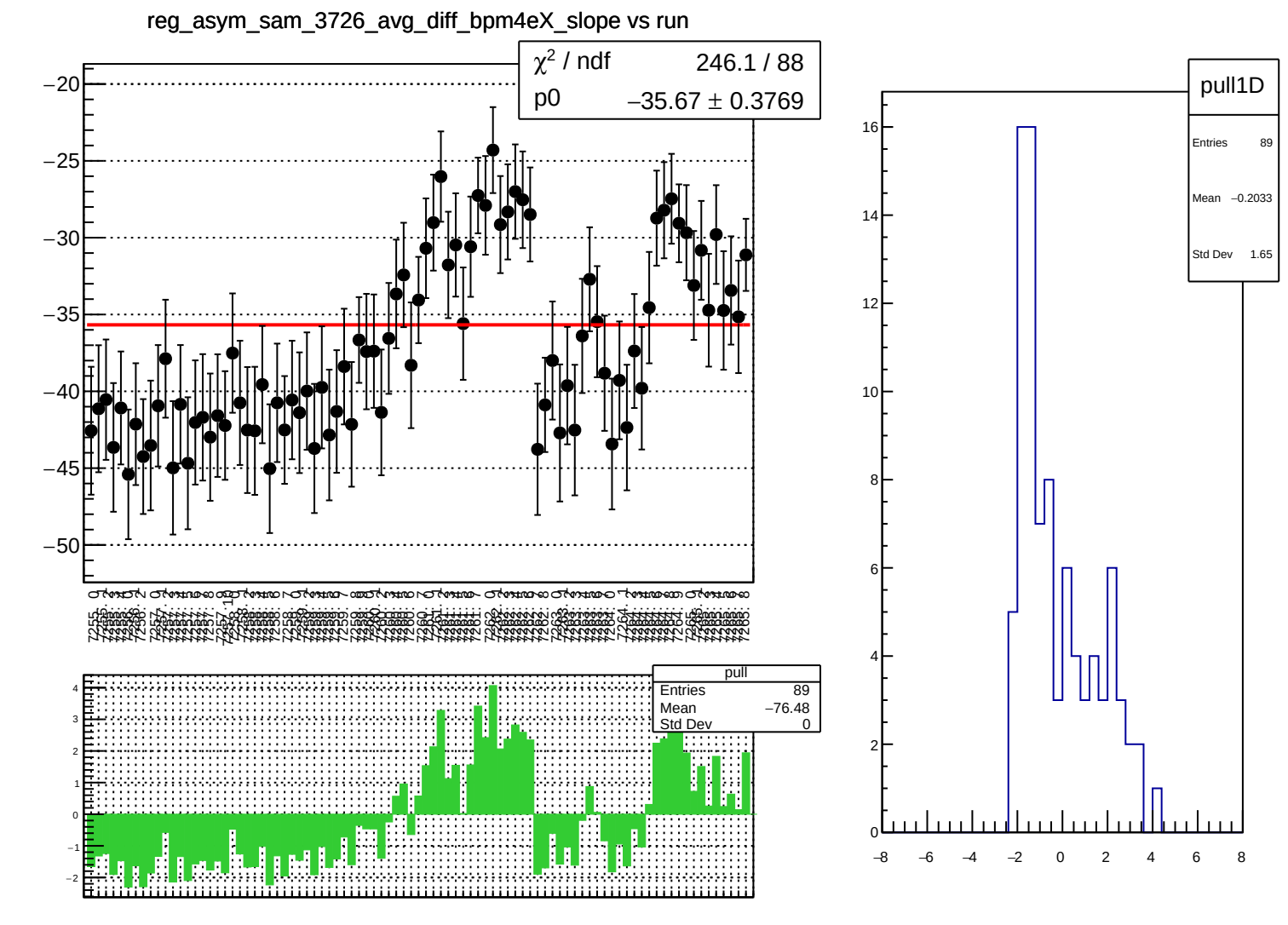

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 188.3 / 88
p0 11.01 ± 0.1711
pull
Entries 89
Mean −1352
Std Dev 0
pull1D
Entries 89
Mean 0.01129
Std Dev 1.455

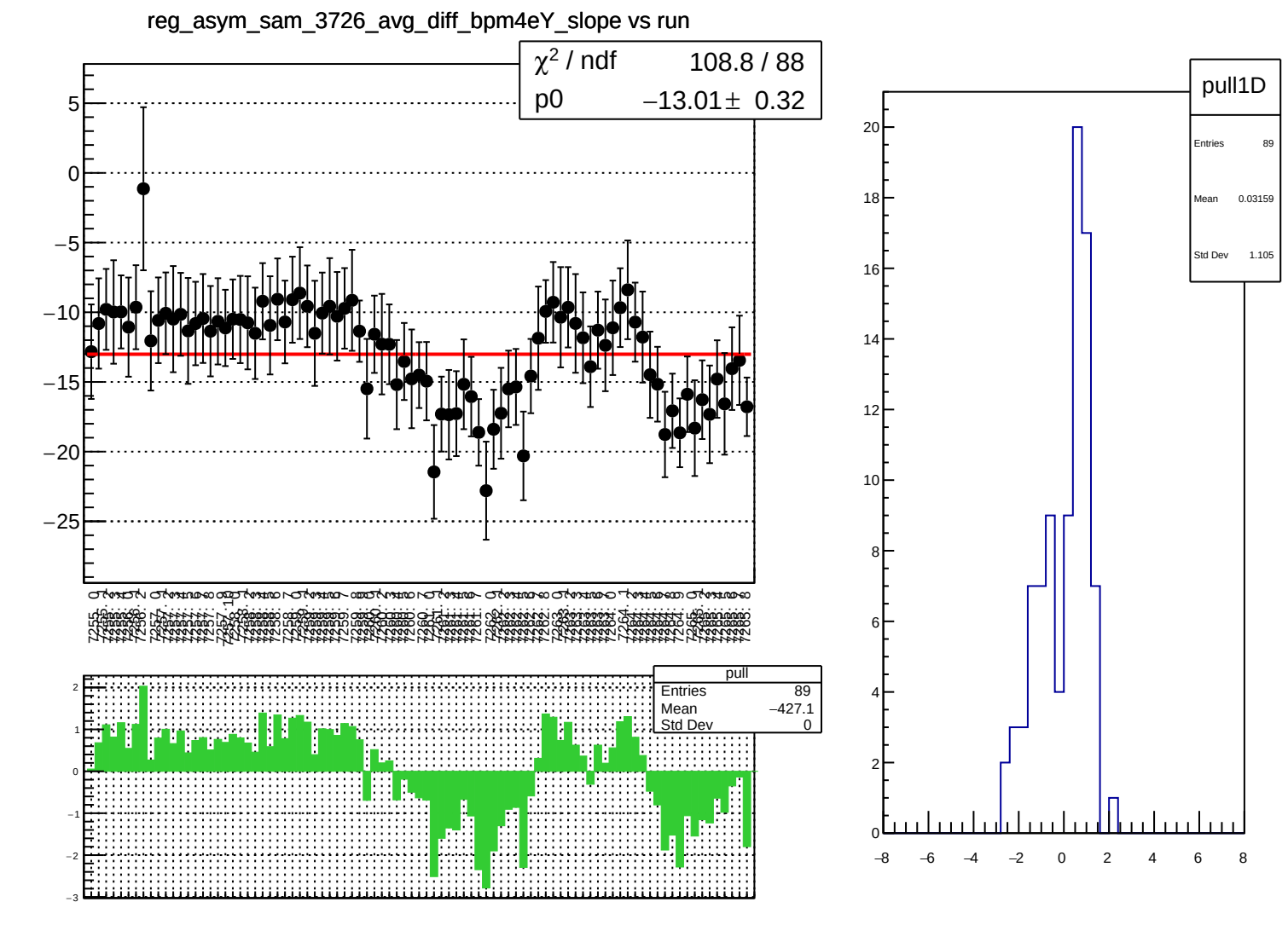

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 33.02 / 88
p0 0.2616 ± 0.007077
pull
Entries 89
Mean 1476
Std Dev 0

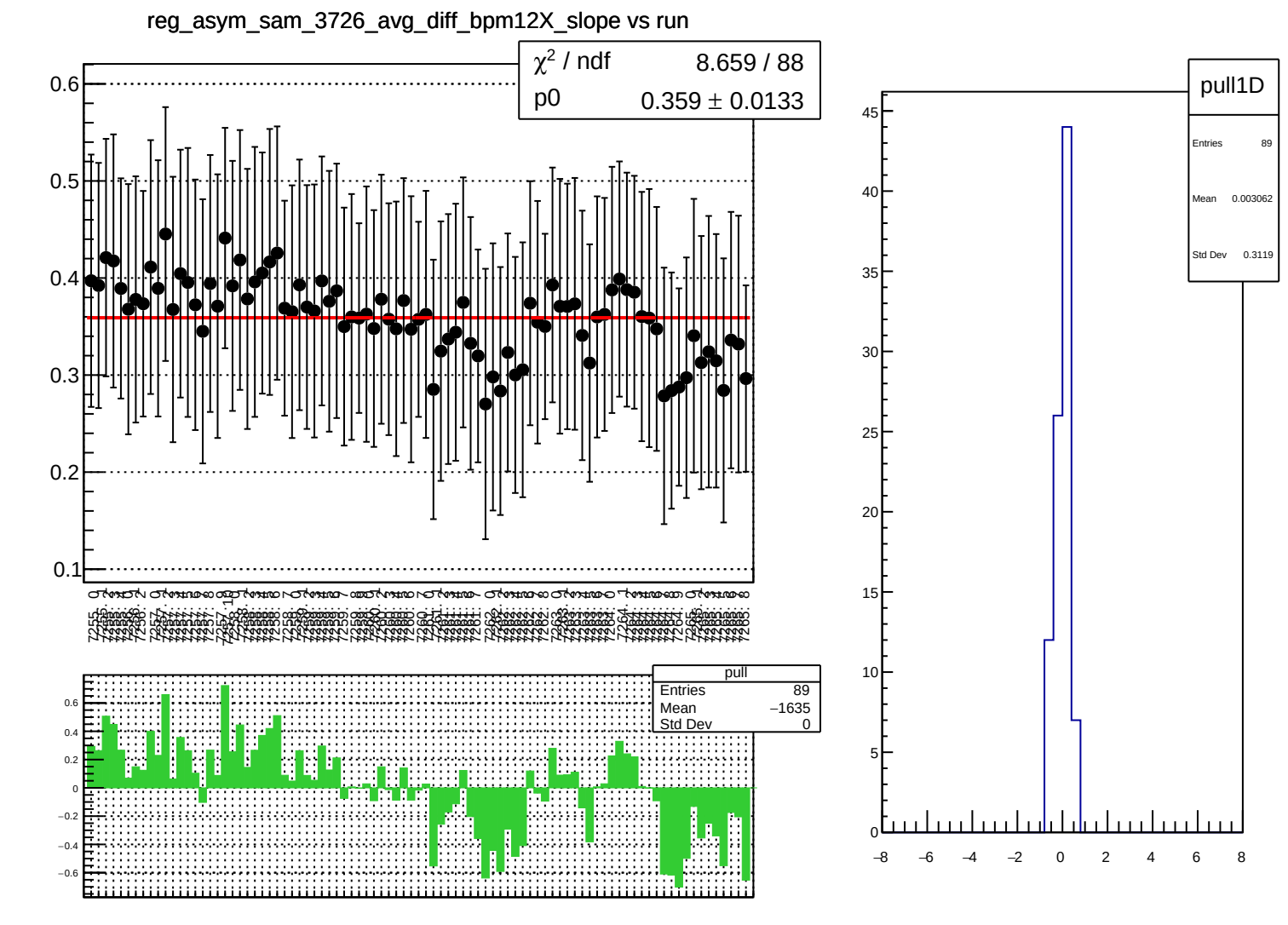

pull1D
Entries 89
Mean −0.00798
Std Dev 0.609

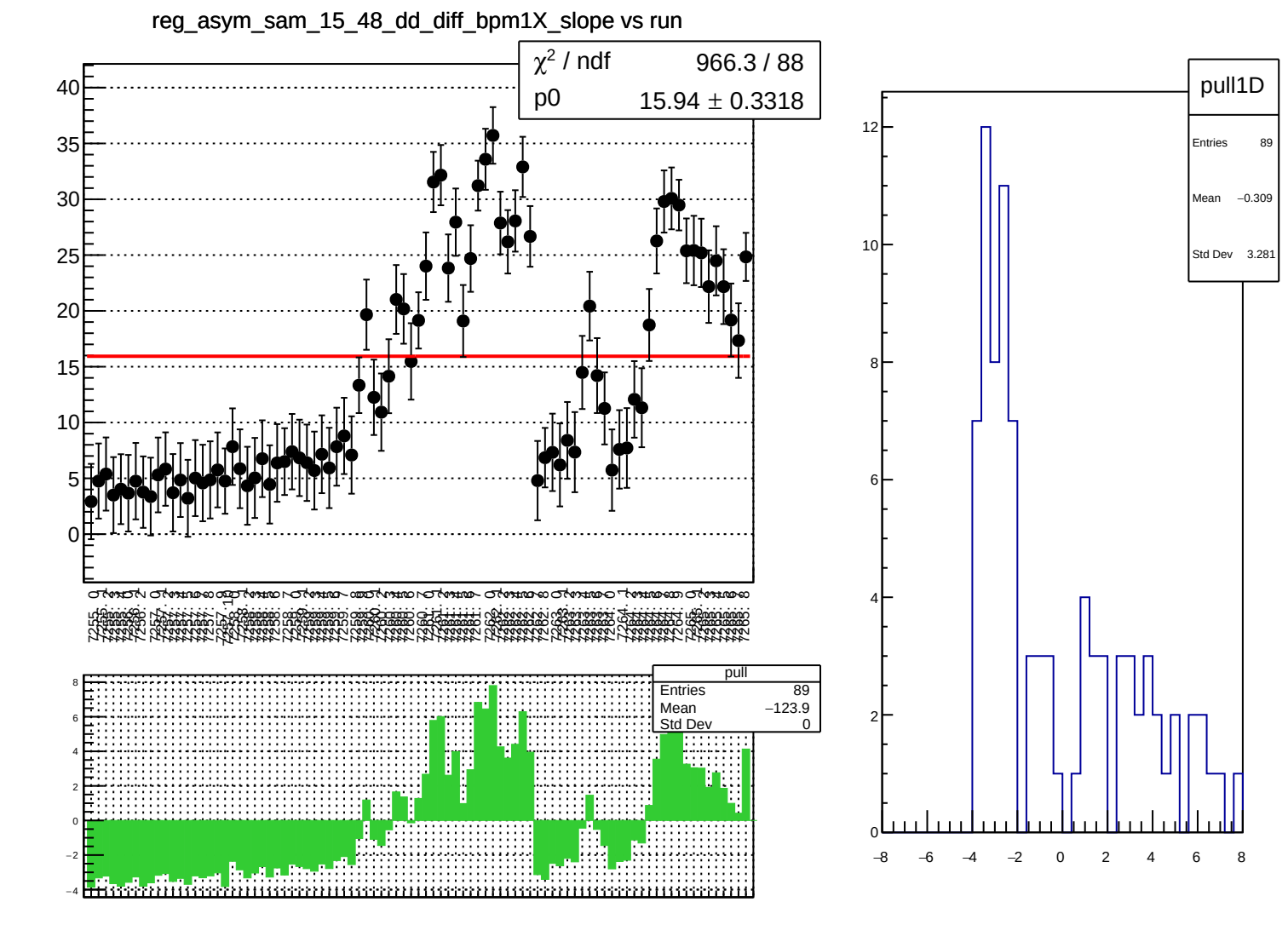

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 303.6 / 88
p0 −10.88 ± 0.3482
pull
Entries 89
Mean −85.16
Std Dev 0
pull1D
Entries 89
Mean 0.2093
Std Dev 1.835

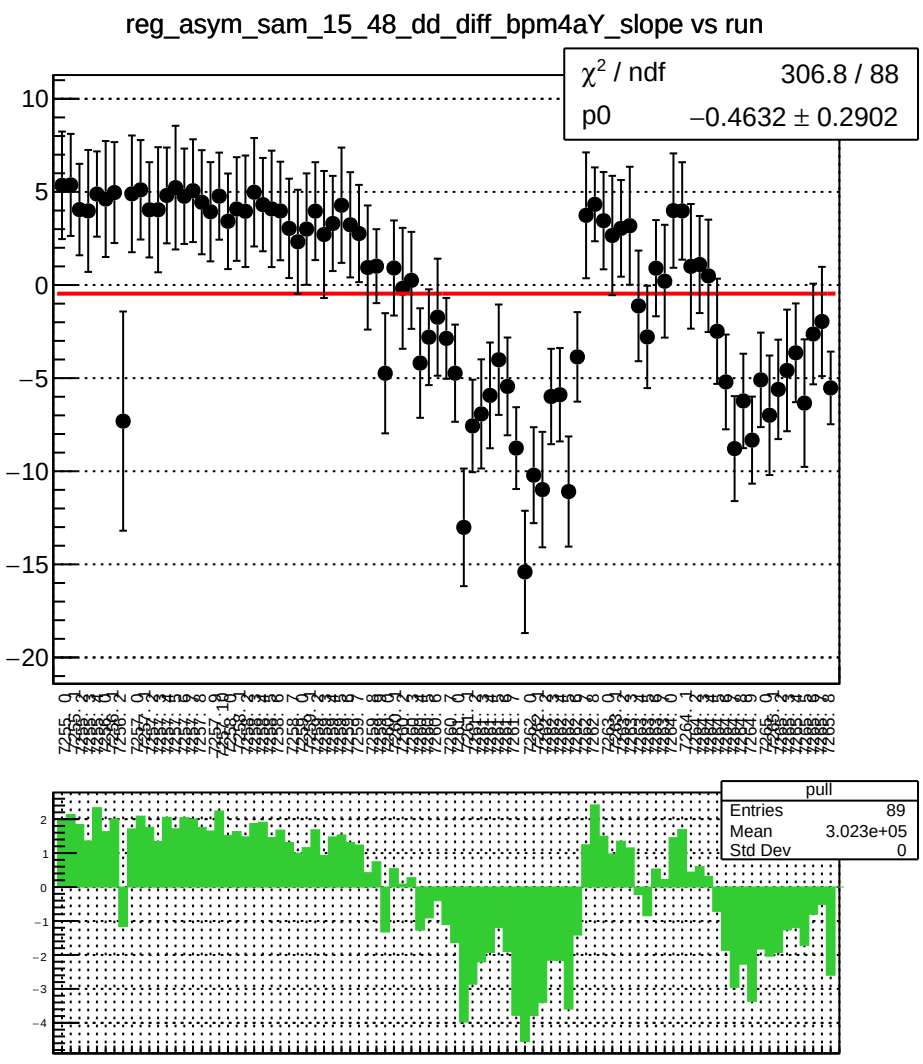

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 104 / 88
p0 6.793 ± 0.3041
pull
Entries 89
Mean −413.2
Std Dev 0
pull1D
Entries 89
Mean −0.03456
Std Dev 1.08

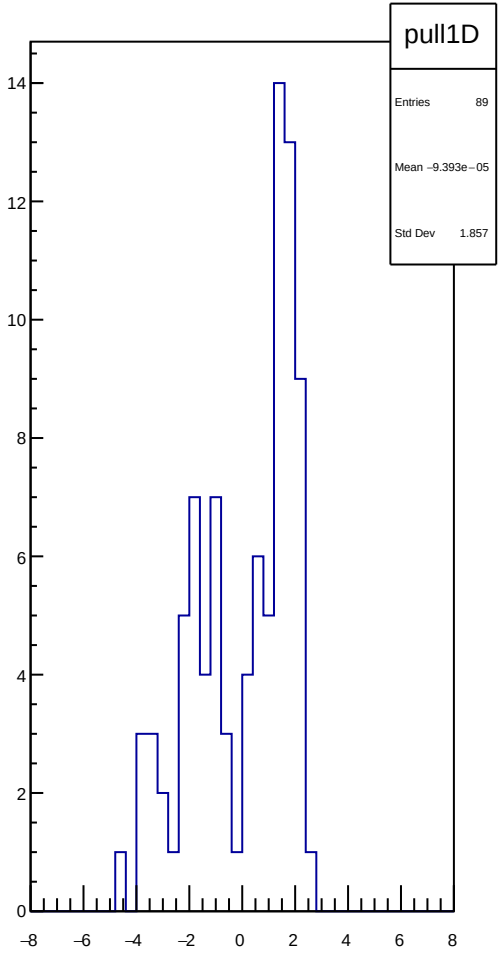

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 246.1 / 88
p0 −35.67 ± 0.3769
pull
Entries 89
Mean −76.48
Std Dev 0
pull1D
Entries 89
Mean −0.2033
Std Dev 1.65

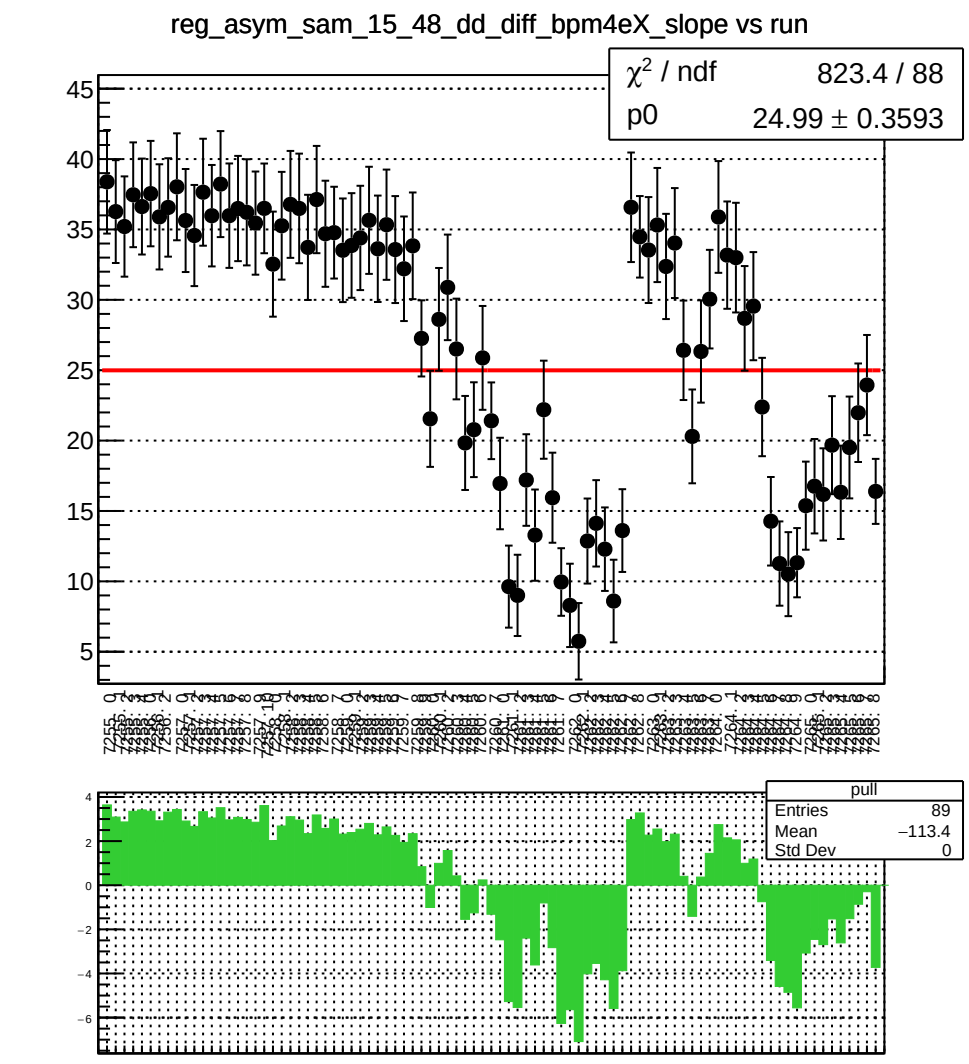

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 108.8 / 88
p0 −13.01± 0.32
pull
Entries 89
Mean −427.1
Std Dev 0
pull1D
Entries 89
Mean 0.03159
Std Dev 1.105

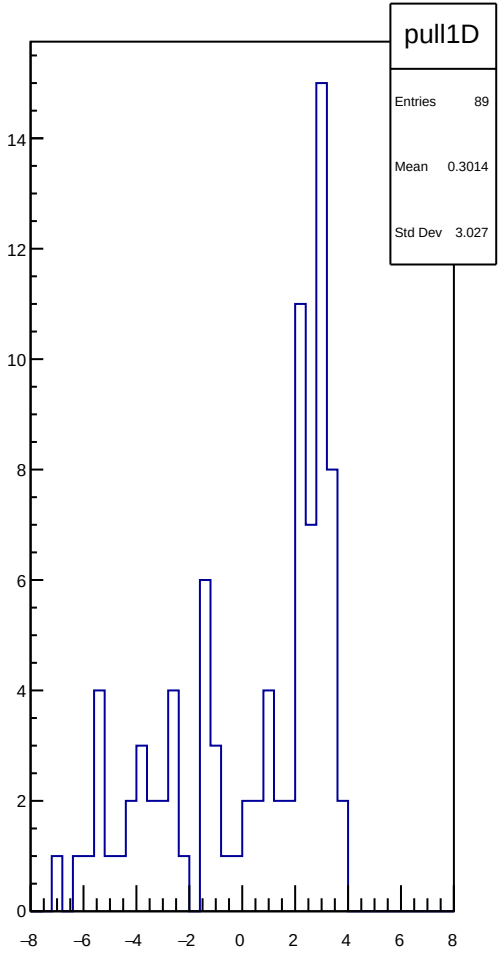

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 8.659 / 88
p0 0.359 ± 0.0133
pull
Entries 89
Mean −1635
Std Dev 0
pull1D
Entries 89
Mean 0.003062
Std Dev 0.3119

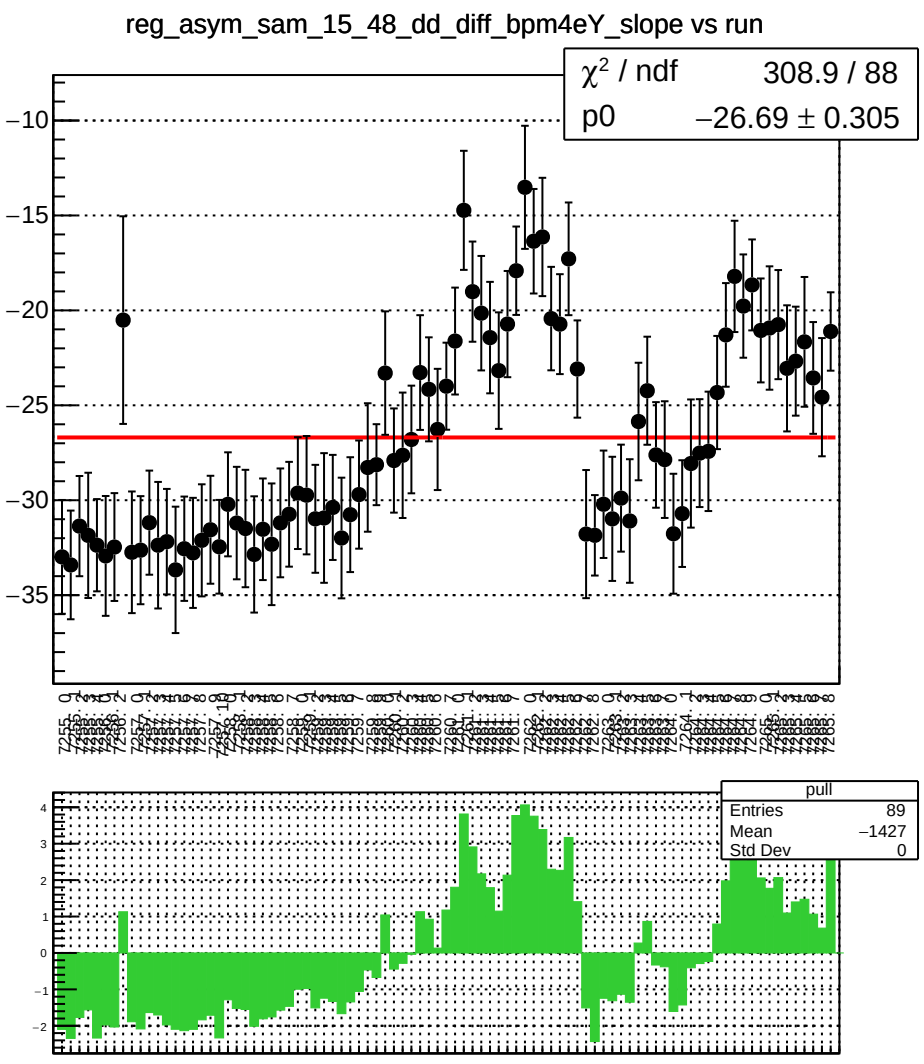

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 966.3 / 88
p0 15.94 ± 0.3318
pull
Entries 89
Mean −123.9
Std Dev 0
pull1D
Entries 89
Mean −0.309
Std Dev 3.281

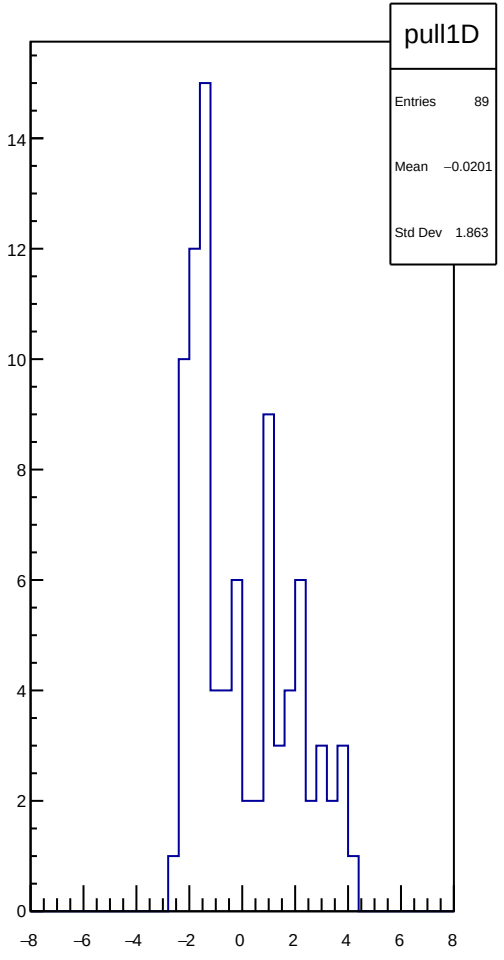

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 306.8 / 88
p0 −0.4632 ± 0.2902
pull
Entries 89
Mean 3.023e+05
Std Dev 0

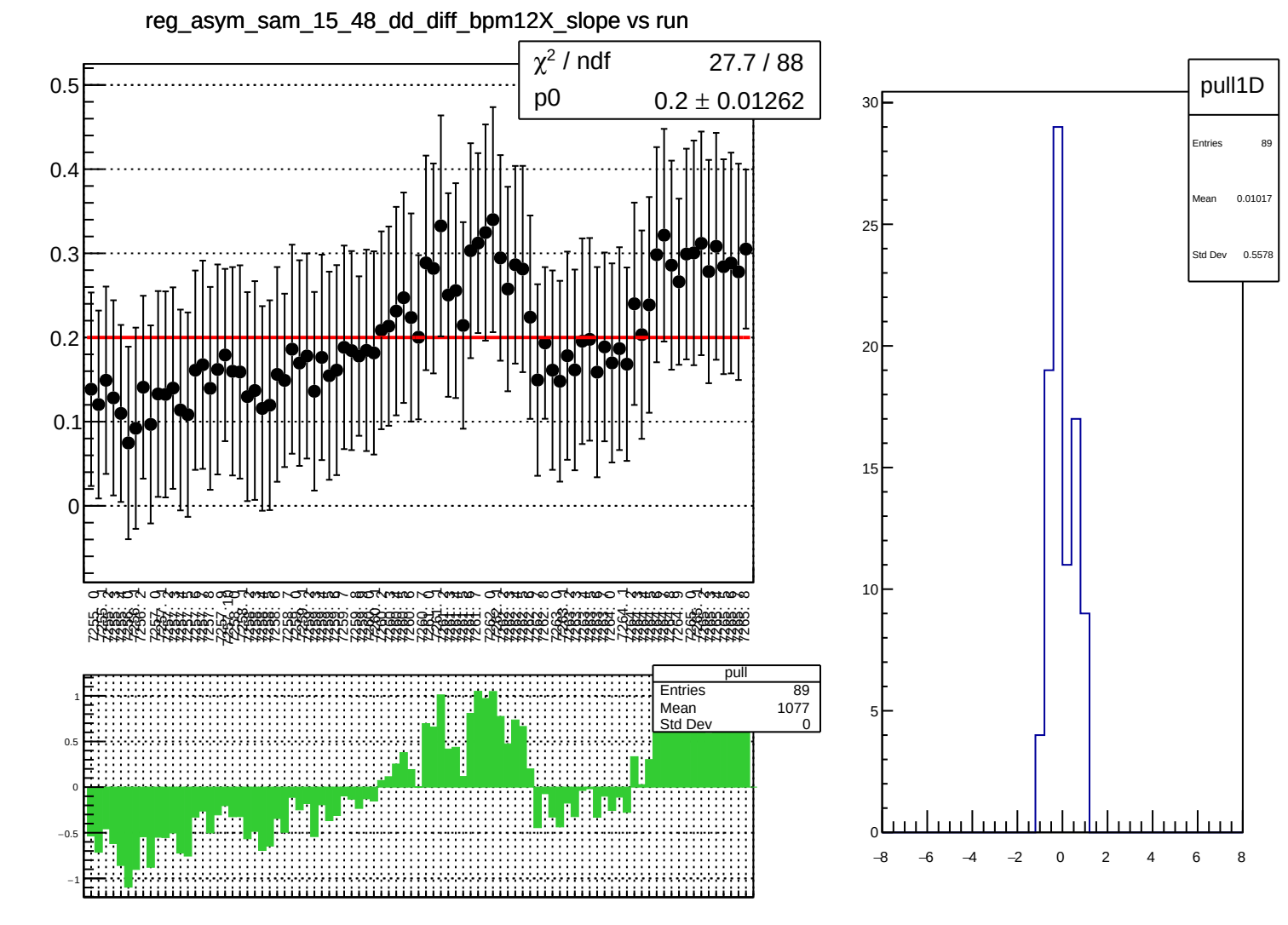

pull1D
Entries 89
Mean −9.393e−05
Std Dev 1.857

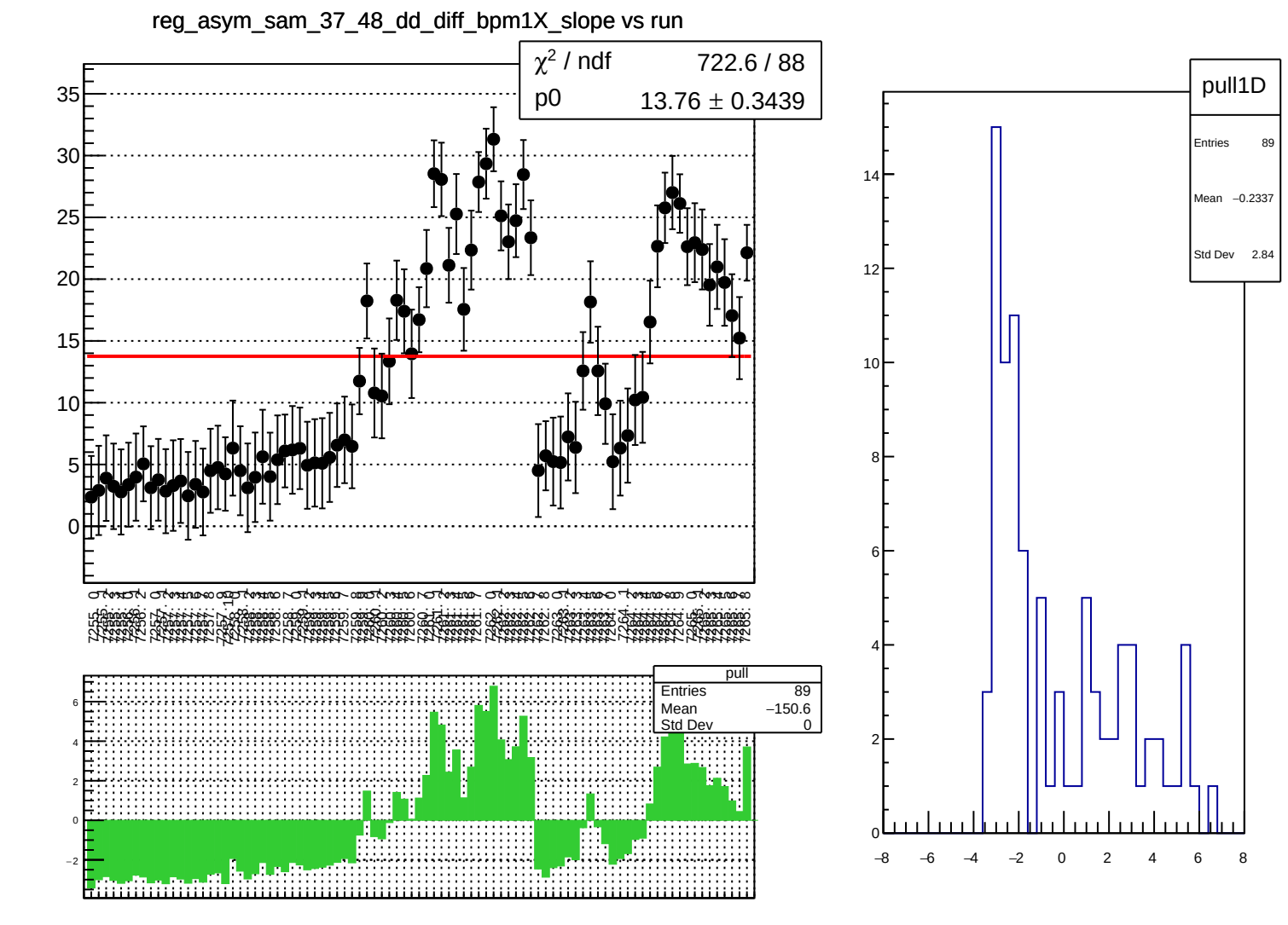

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 823.4 / 88
p0 24.99 ± 0.3593
pull
Entries 89
Mean −113.4
Std Dev 0

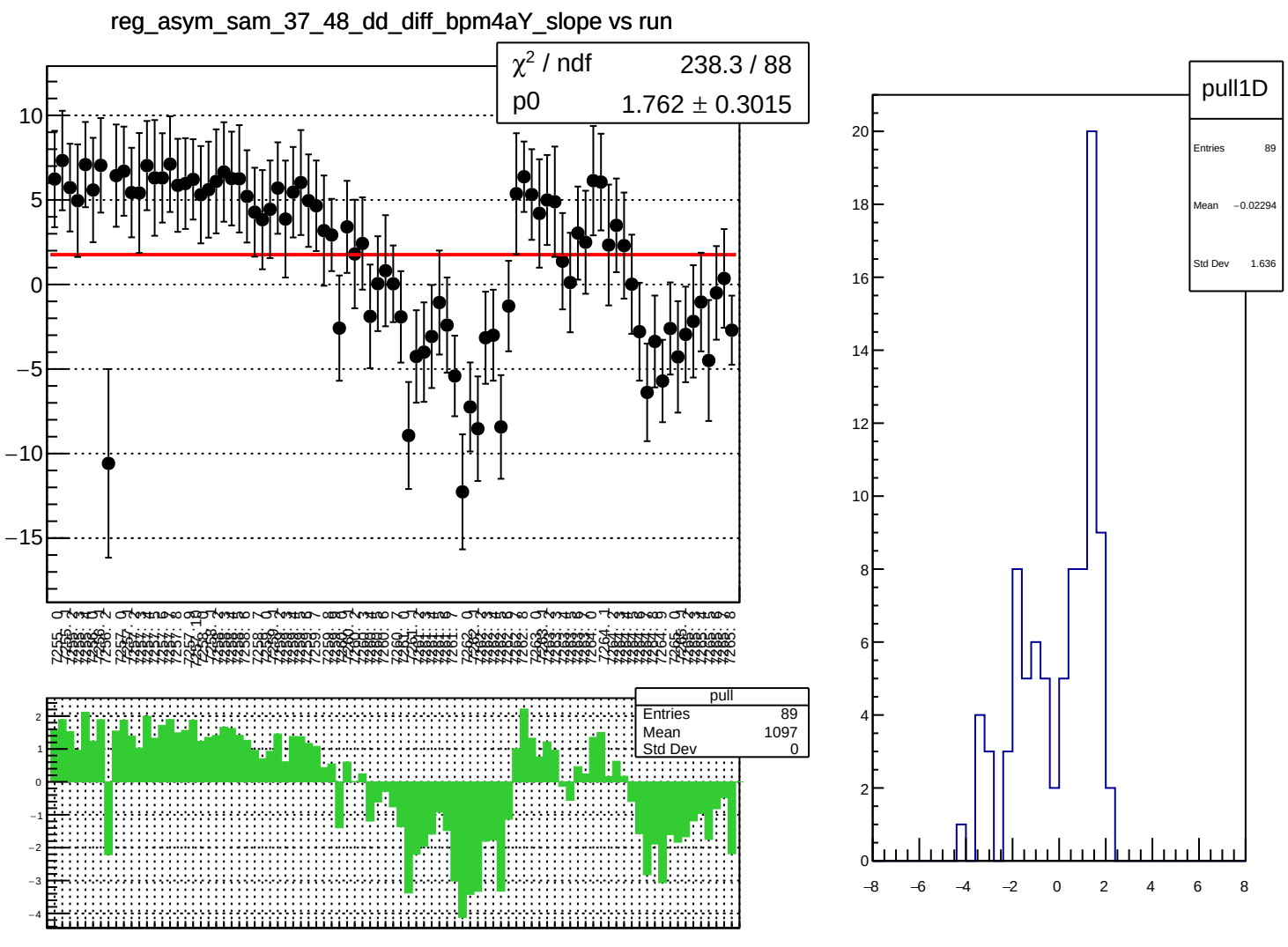

pull1D
Entries 89
Mean 0.3014
Std Dev 3.027

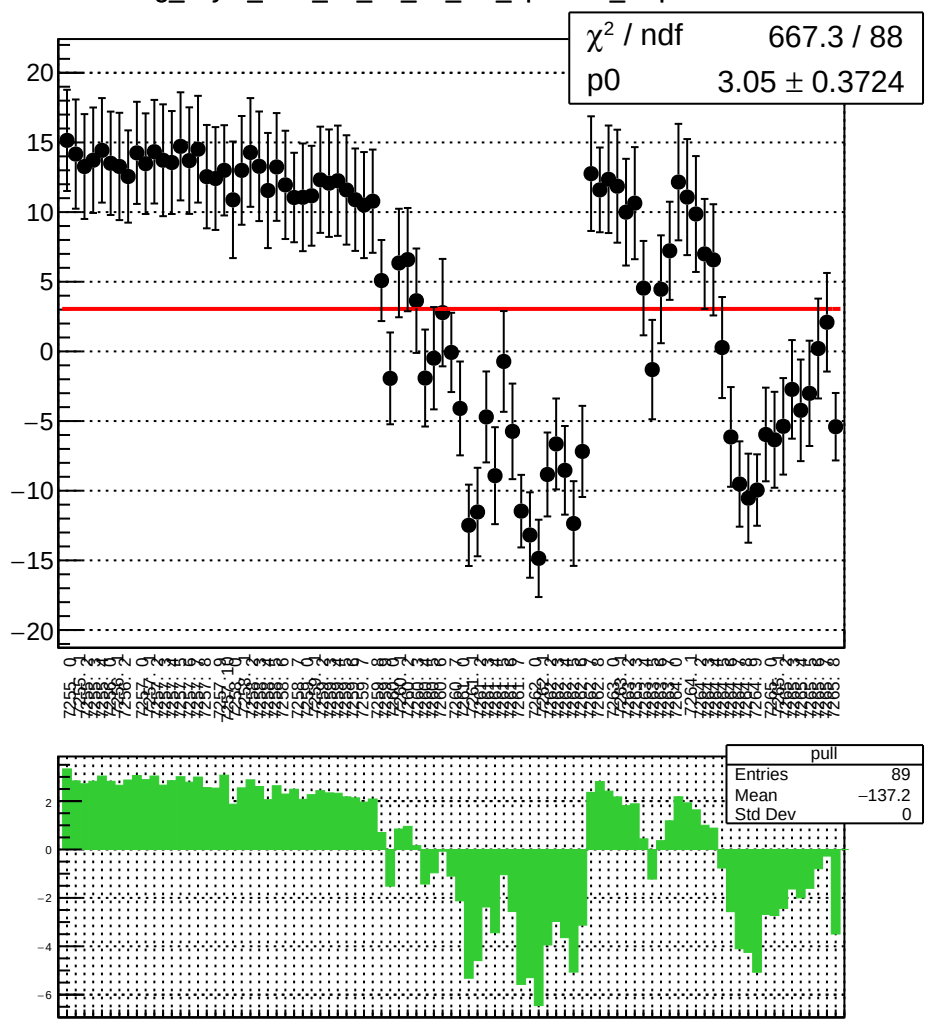

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 308.9 / 88
p0 −26.69 ± 0.305
pull
Entries 89
Mean −1427
Std Dev 0

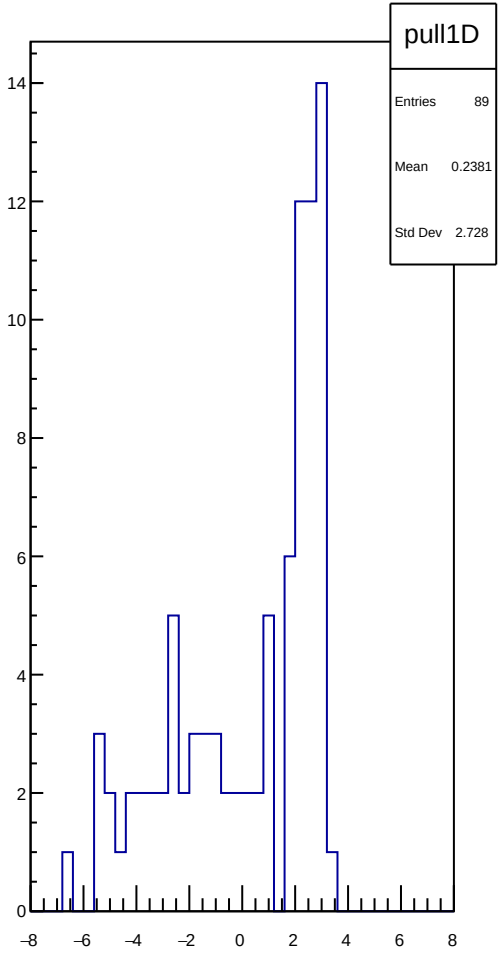

pull1D
Entries 89
Mean −0.0201
Std Dev 1.863

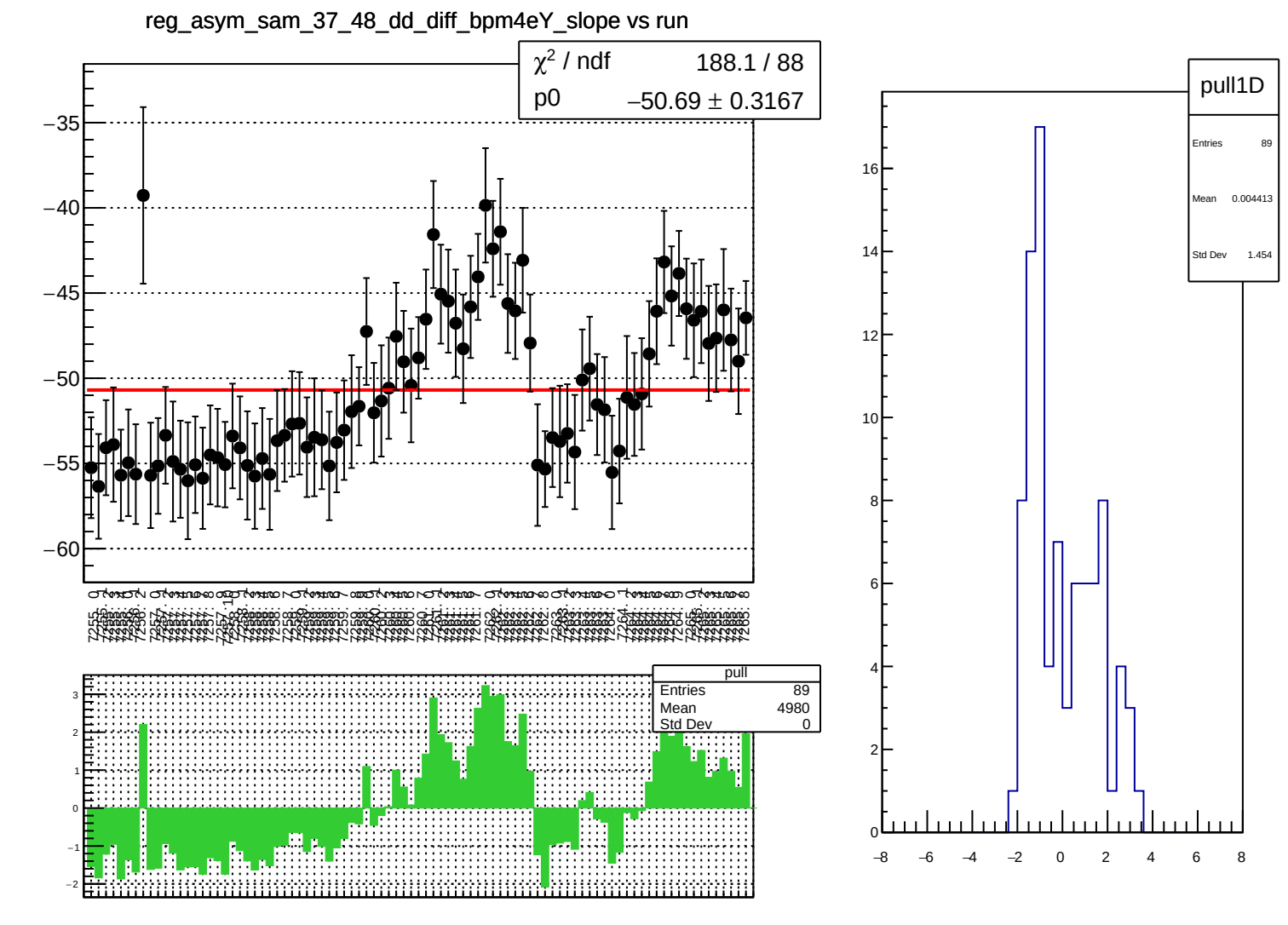

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 27.7 / 88
p0 0.2 ± 0.01262
pull
Entries 89
Mean 1077
Std Dev 0
pull1D
Entries 89
Mean 0.01017
Std Dev 0.5578

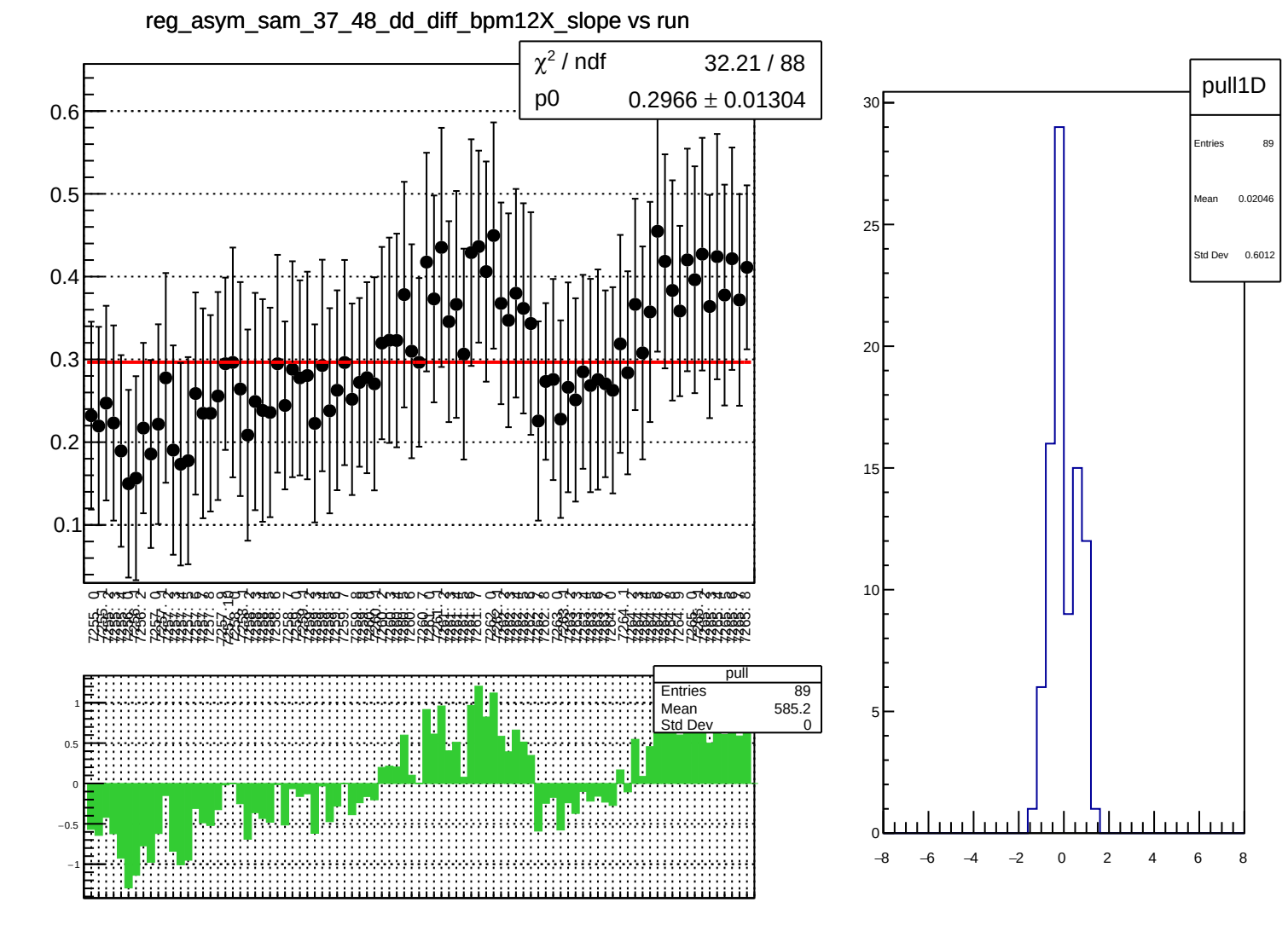

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 722.6 / 88
p0 13.76 ± 0.3439
pull
Entries 89
Mean −150.6
Std Dev 0
pull1D
Entries 89
Mean −0.2337
Std Dev 2.84

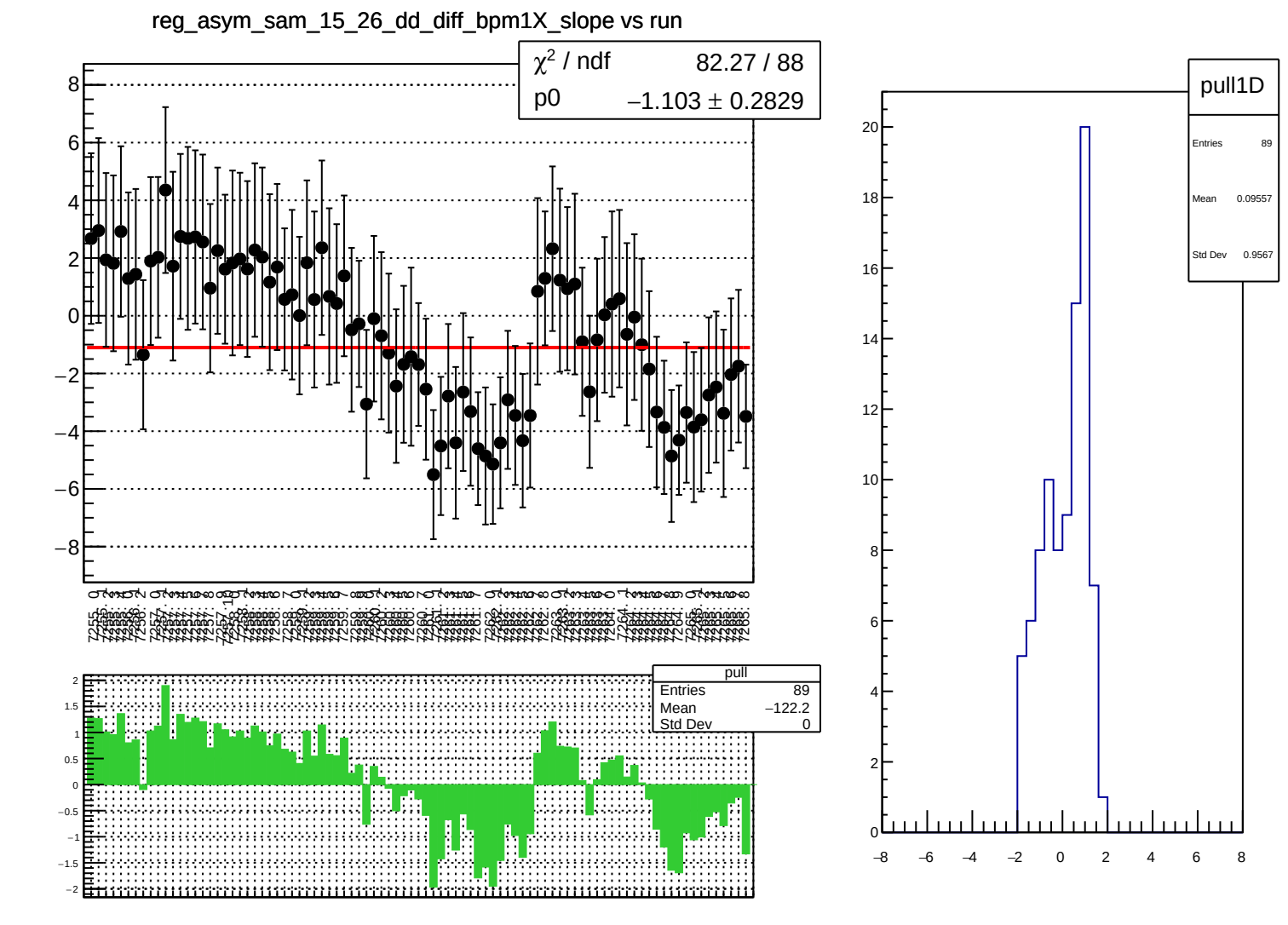

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 238.3 / 88
p0 1.762 ± 0.3015
pull
Entries 89
Mean 1097
Std Dev 0
pull1D
Entries 89
Mean −0.02294
Std Dev 1.636

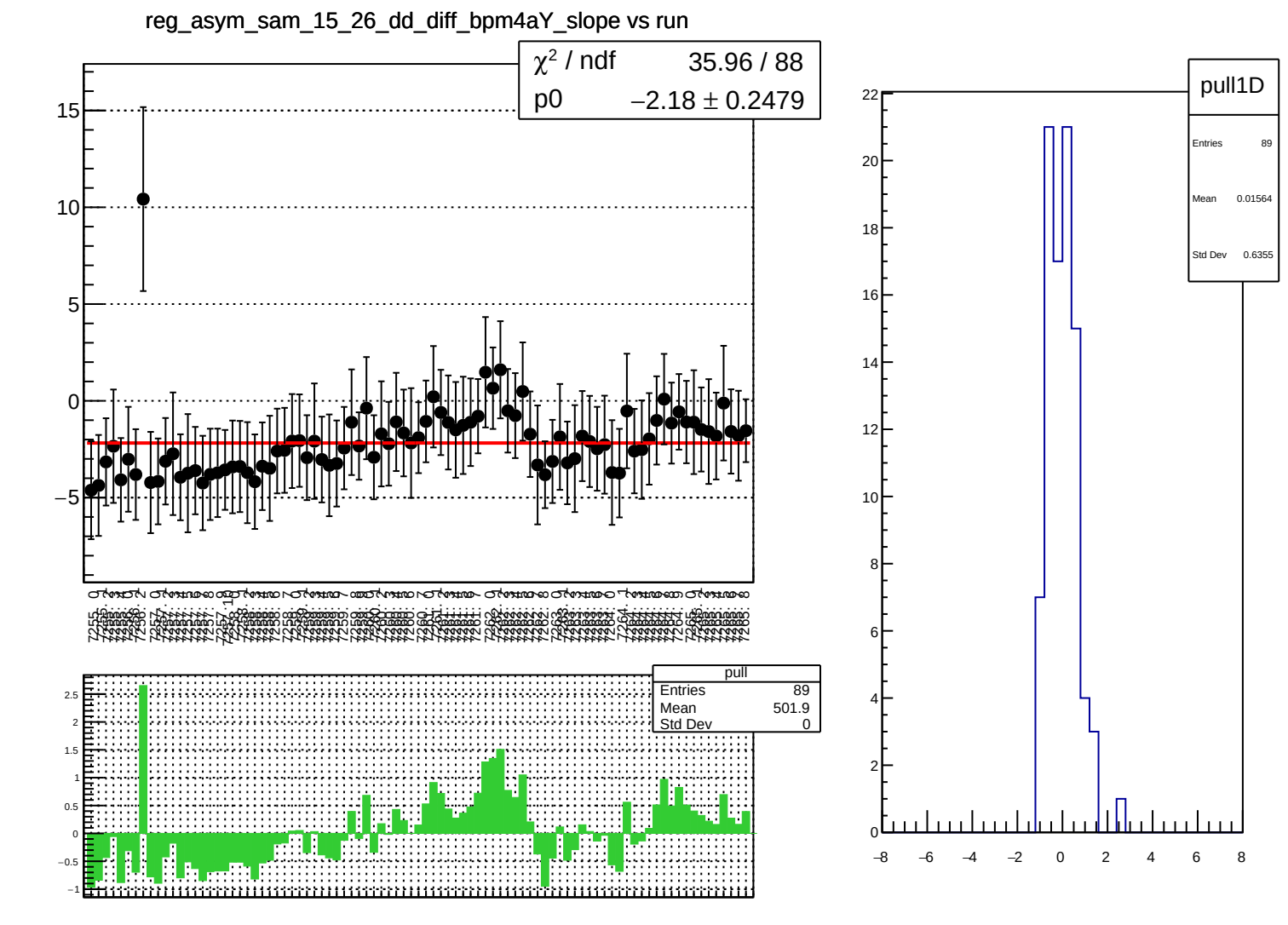

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 667.3 / 88
p0 3.05 ± 0.3724
pull
Entries 89
Mean −137.2
Std Dev 0

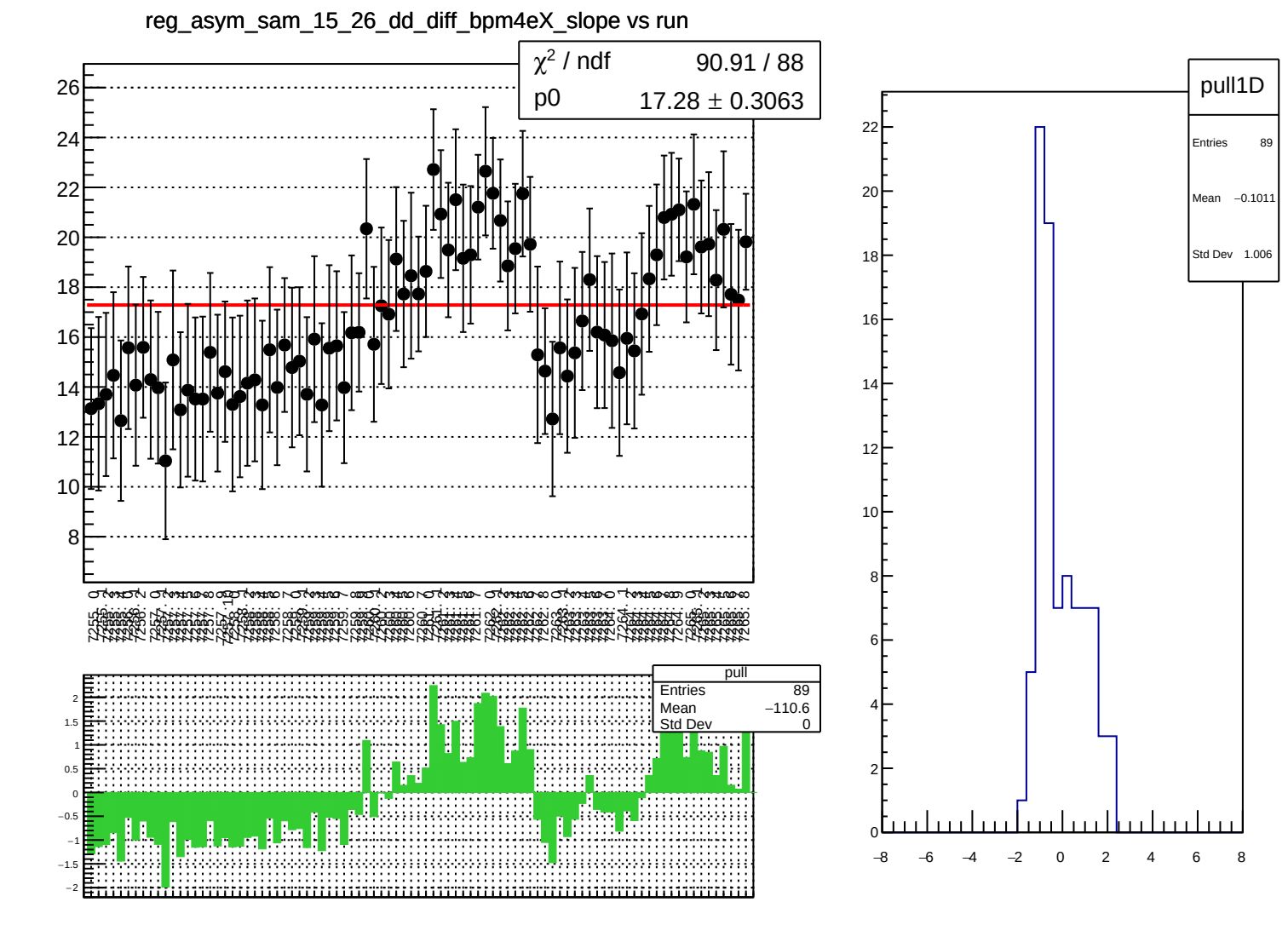

pull1D
Entries 89
Mean 0.2381
Std Dev 2.728

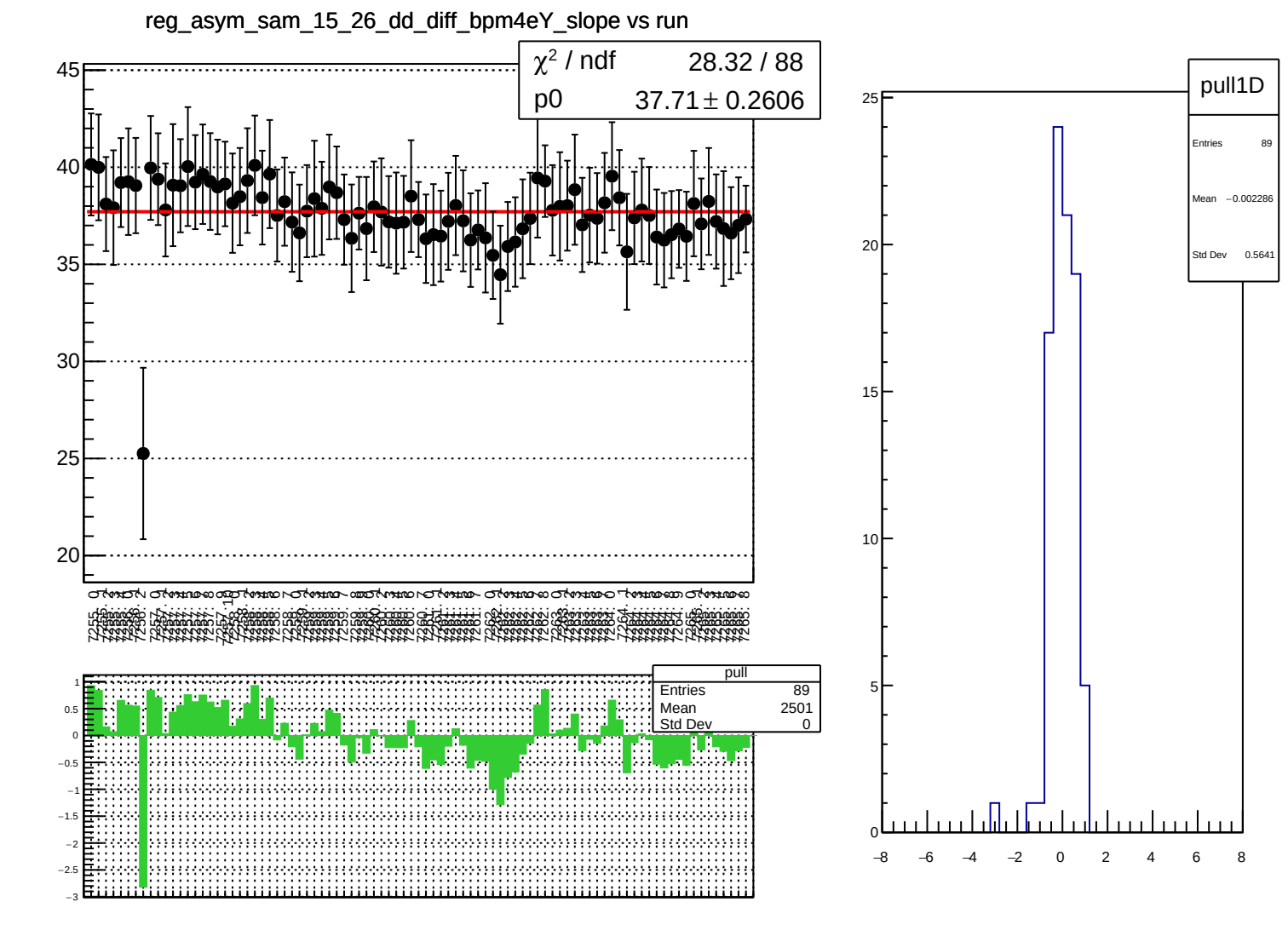

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 188.1 / 88
p0 −50.69 ± 0.3167
pull
Entries 89
Mean 4980
Std Dev 0
pull1D
Entries 89
Mean 0.004413
Std Dev 1.454

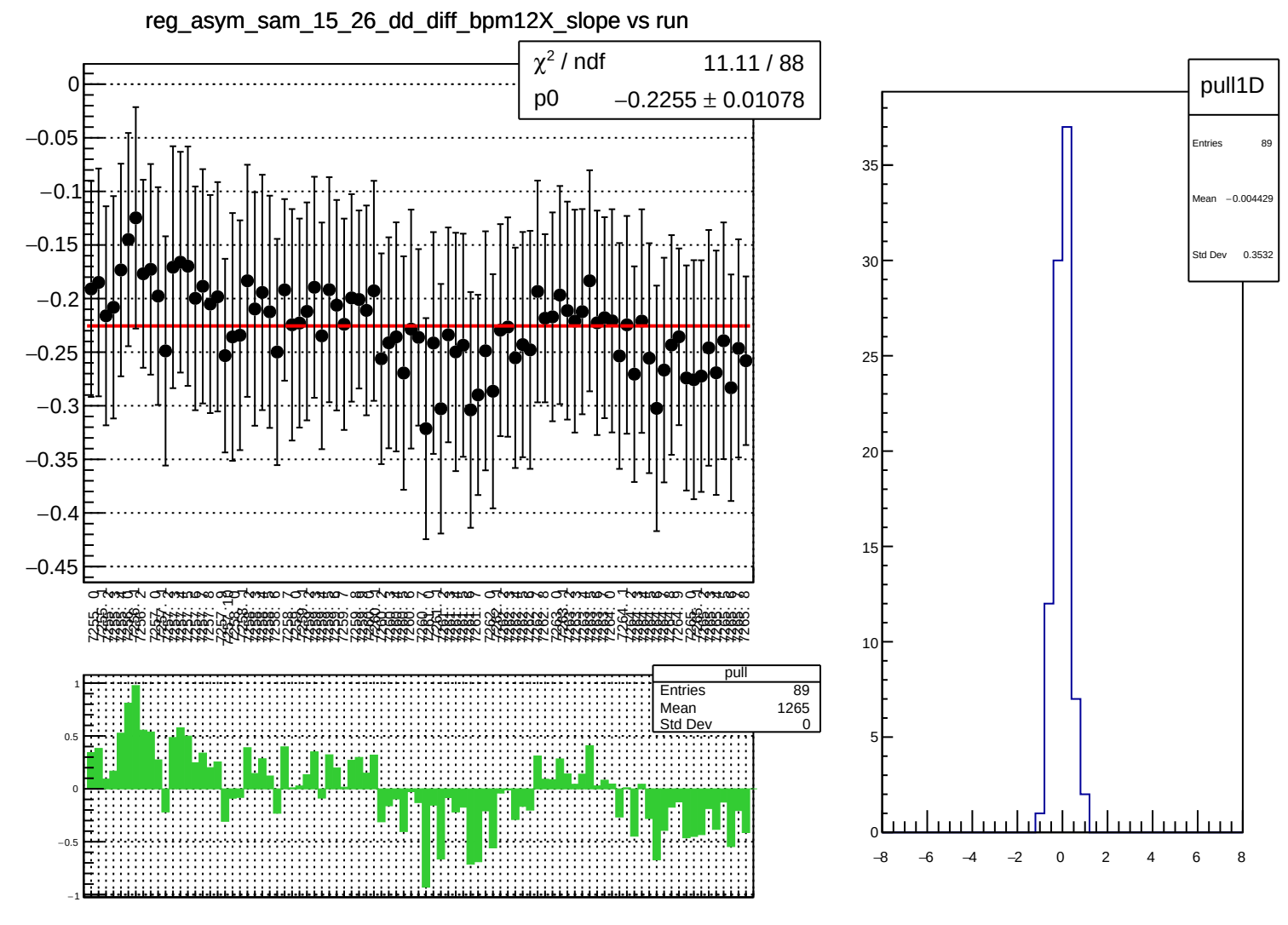

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 32.21 / 88
p0 0.2966 ± 0.01304
pull
Entries 89
Mean 585.2
Std Dev 0
pull1D
Entries 89
Mean 0.02046
Std Dev 0.6012

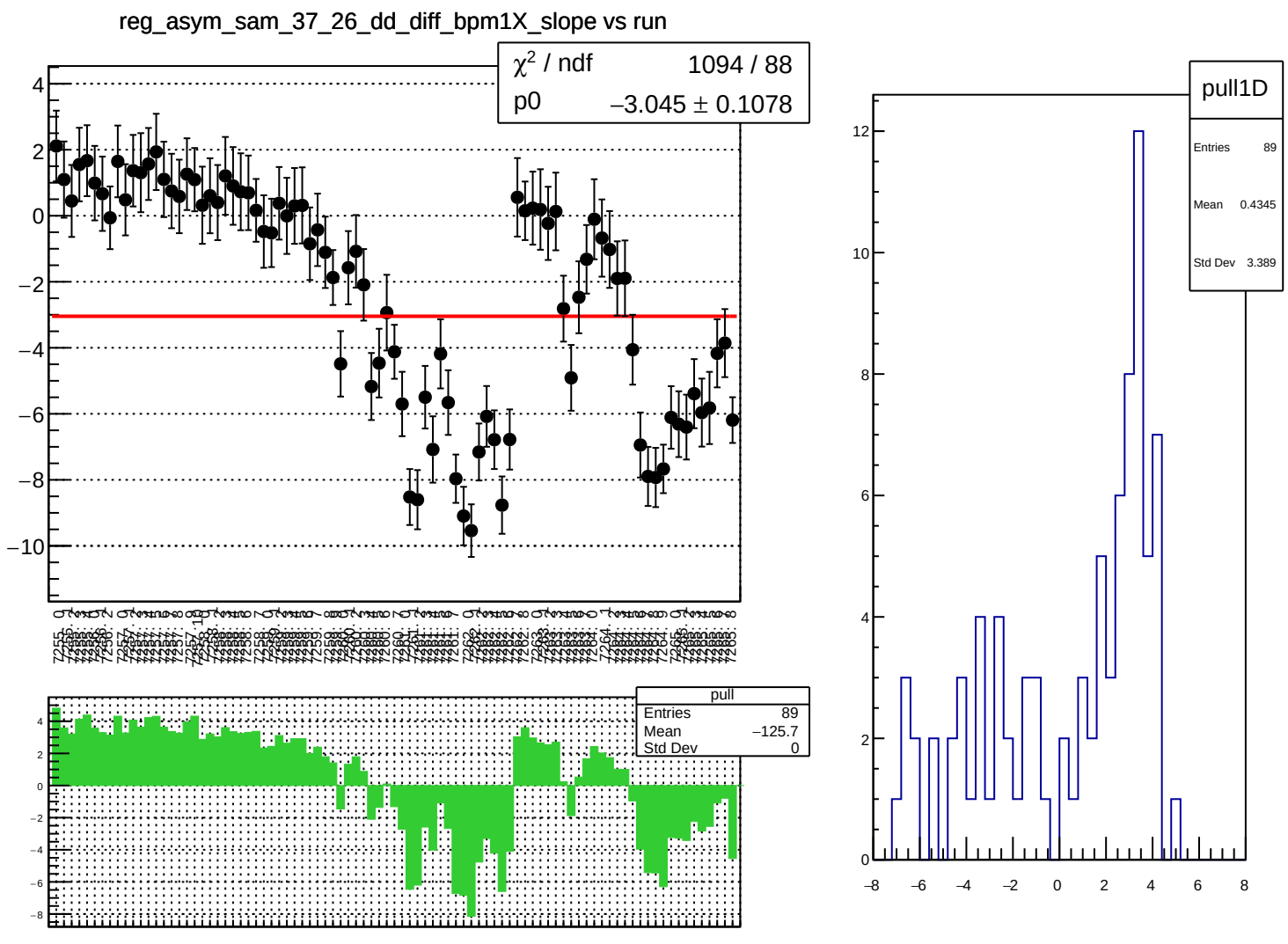

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 82.27 / 88
p0 −1.103 ± 0.2829
pull
Entries 89
Mean −122.2
Std Dev 0
pull1D
Entries 89
Mean 0.09557
Std Dev 0.9567

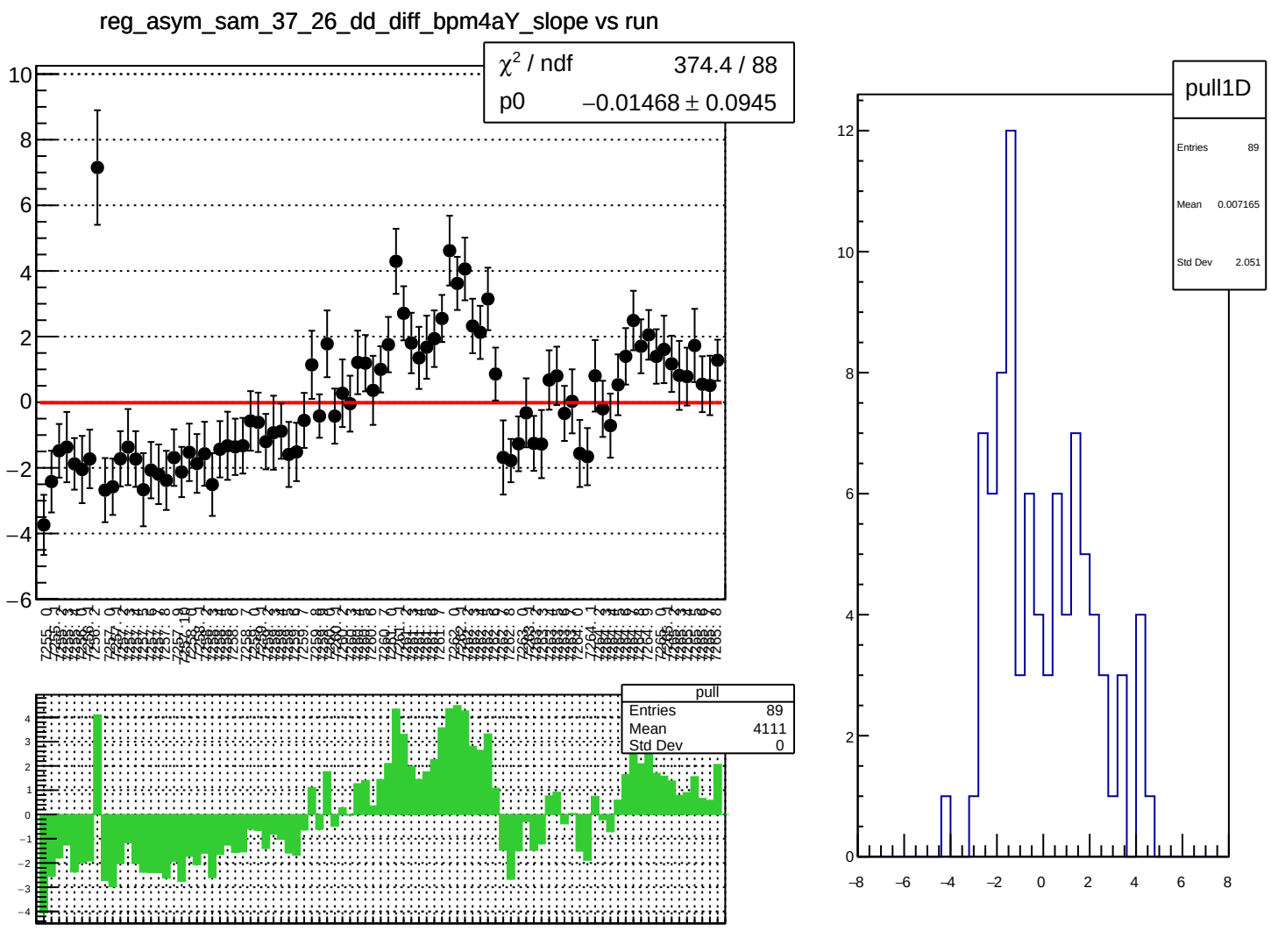

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.96 / 88
p0 −2.18 ± 0.2479
pull
Entries 89
Mean 501.9
Std Dev 0
pull1D
Entries 89
Mean 0.01564
Std Dev 0.6355

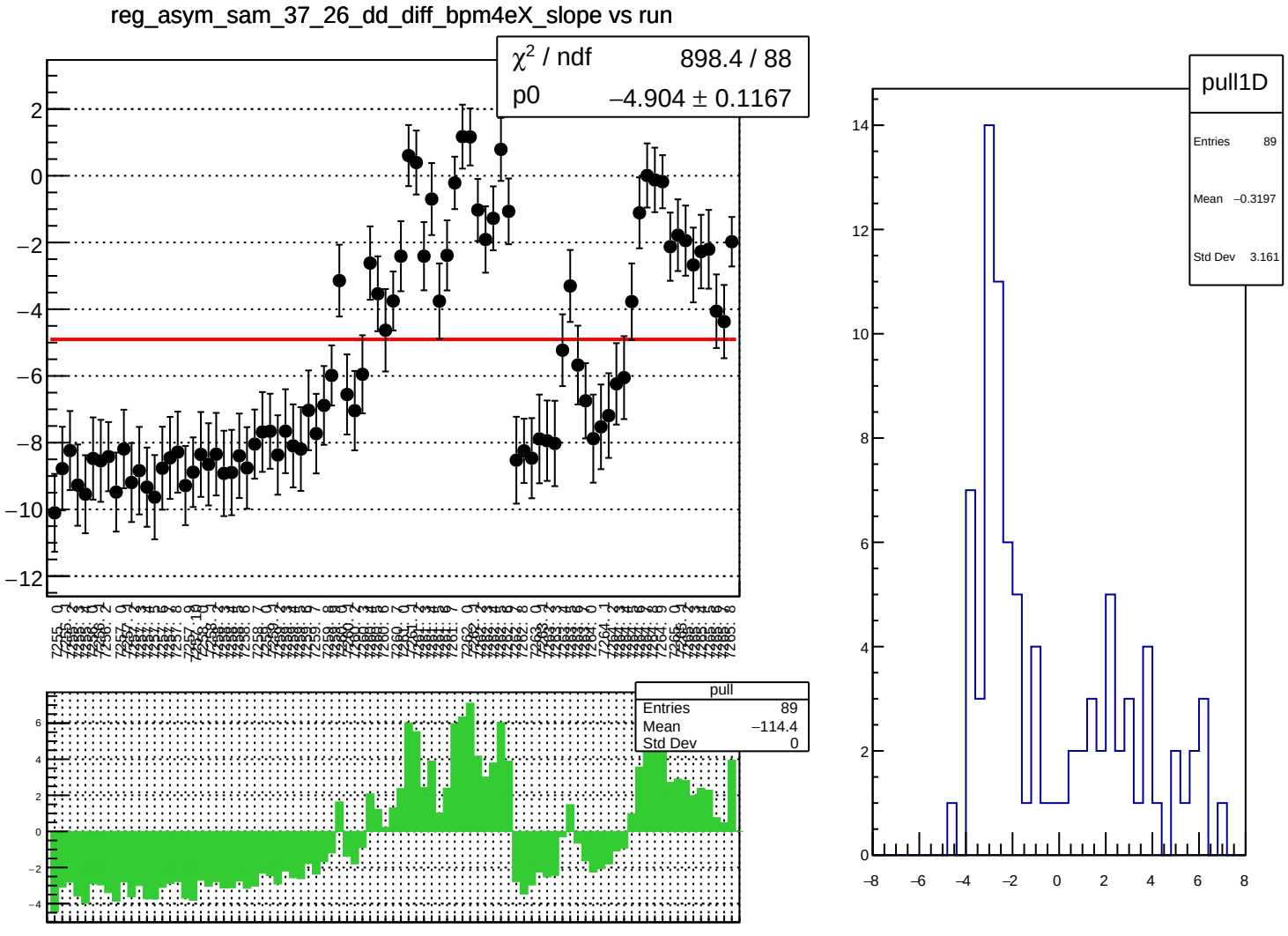

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 90.91 / 88
p0 17.28 ± 0.3063
pull
Entries 89
Mean −110.6
Std Dev 0
pull1D
Entries 89
Mean −0.1011
Std Dev 1.006

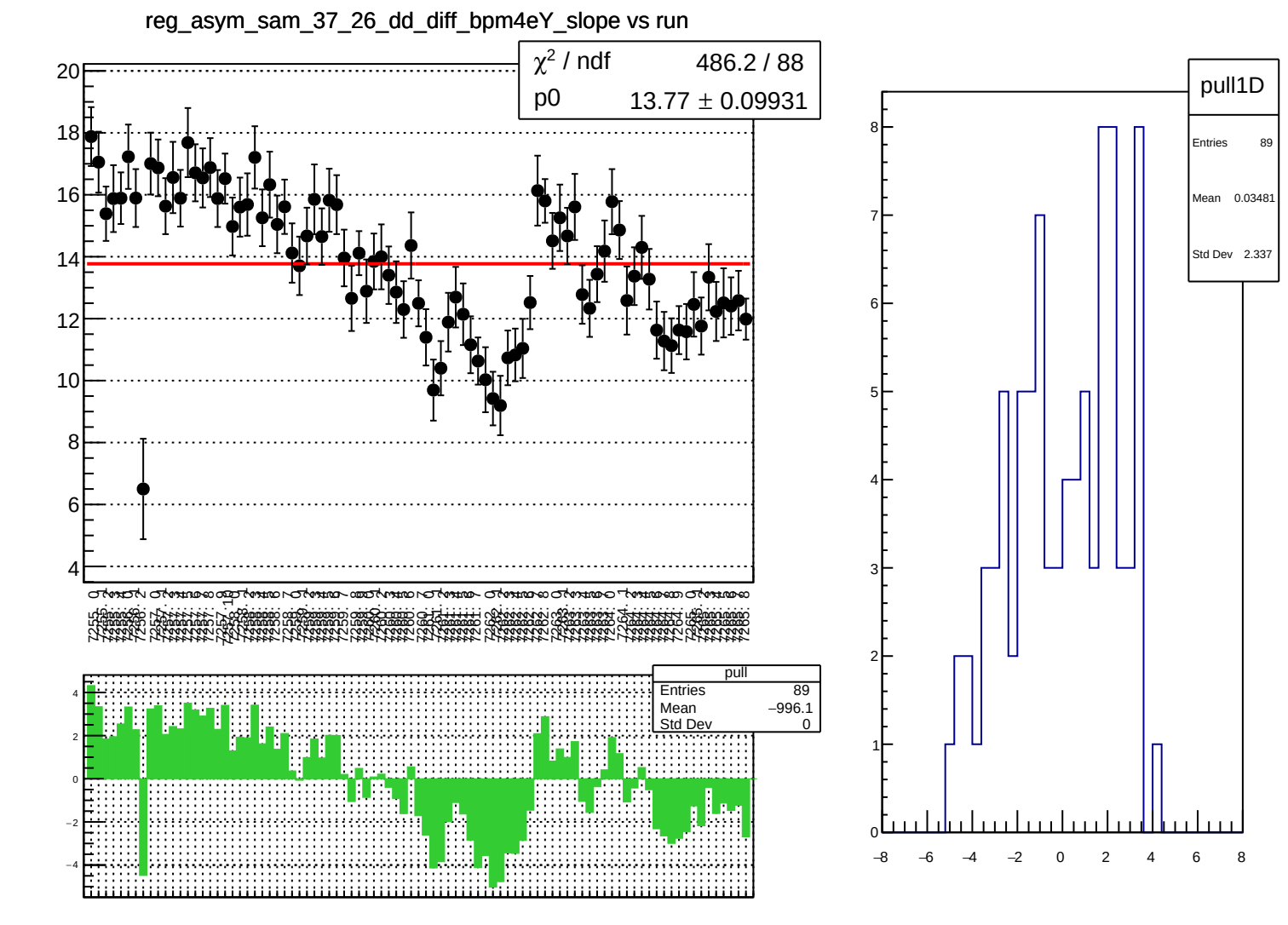

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.32 / 88
p0 37.71 ± 0.2606
pull
Entries 89
Mean 2501
Std Dev 0
pull1D
Entries 89
Mean −0.002286
Std Dev 0.5641

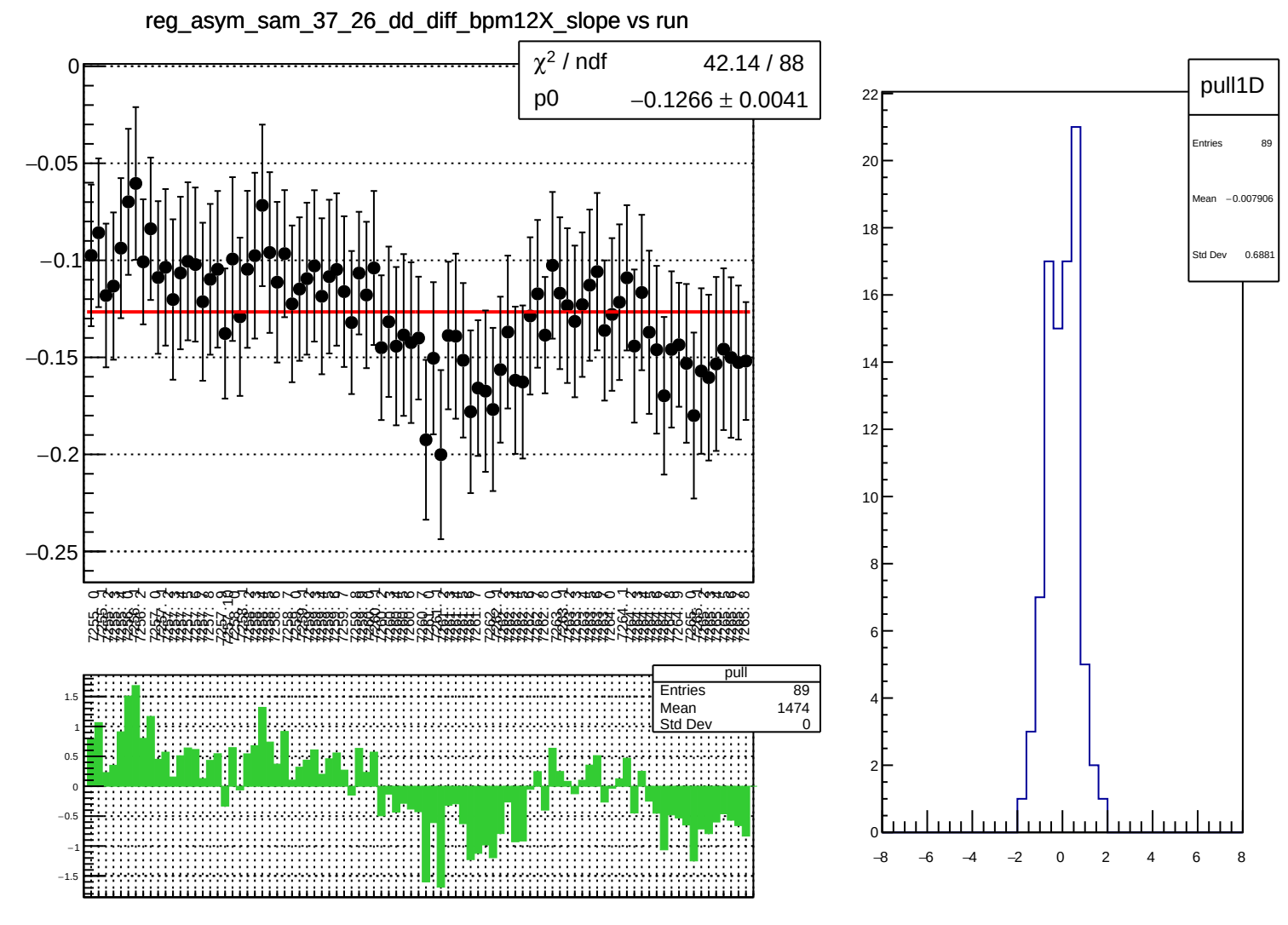

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 11.11 / 88
p0 −0.2255 ± 0.01078
pull
Entries 89
Mean 1265
Std Dev 0
pull1D
Entries 89
Mean −0.004429
Std Dev 0.3532

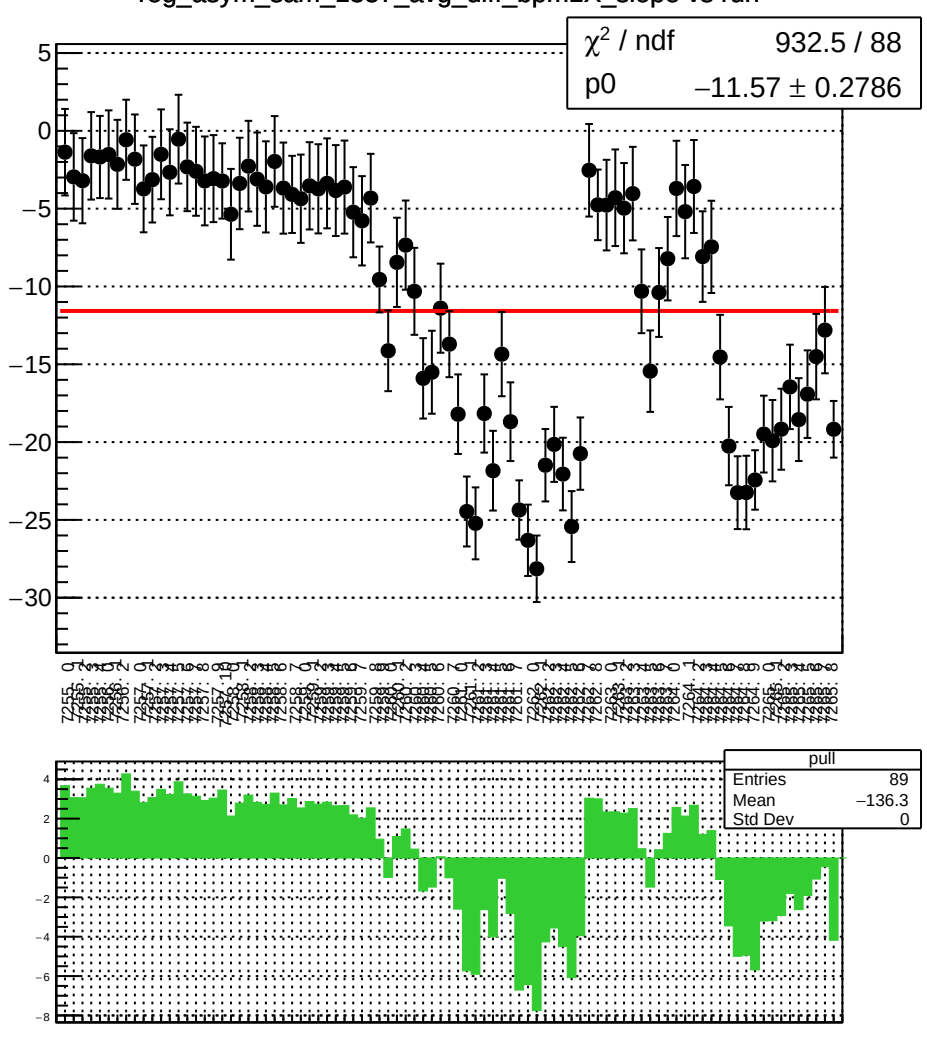

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1094 / 88
p0 −3.045 ± 0.1078
pull
Entries 89
Mean −125.7
Std Dev 0
pull1D
Entries 89
Mean 0.4345
Std Dev 3.389

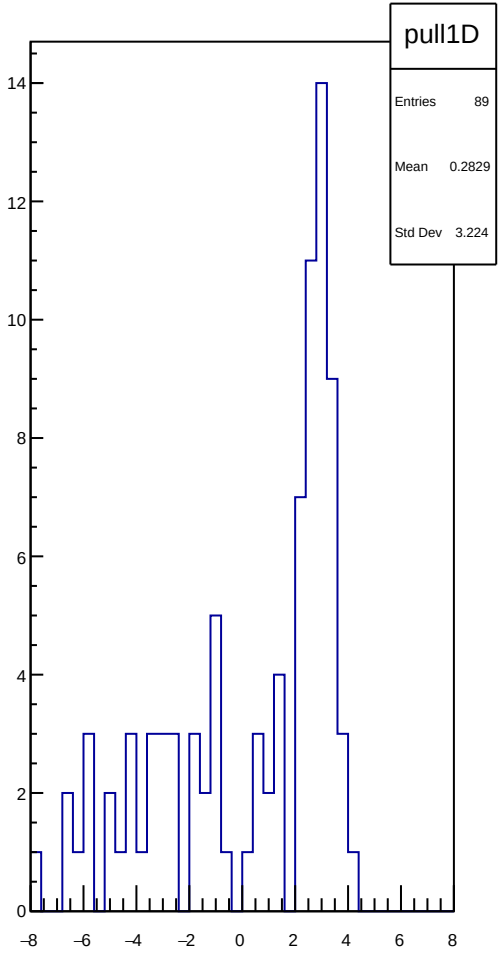

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 374.4 / 88
p0 −0.01468 ± 0.0945
pull
Entries 89
Mean 4111
Std Dev 0
pull1D
Entries 89
Mean 0.007165
Std Dev 2.051

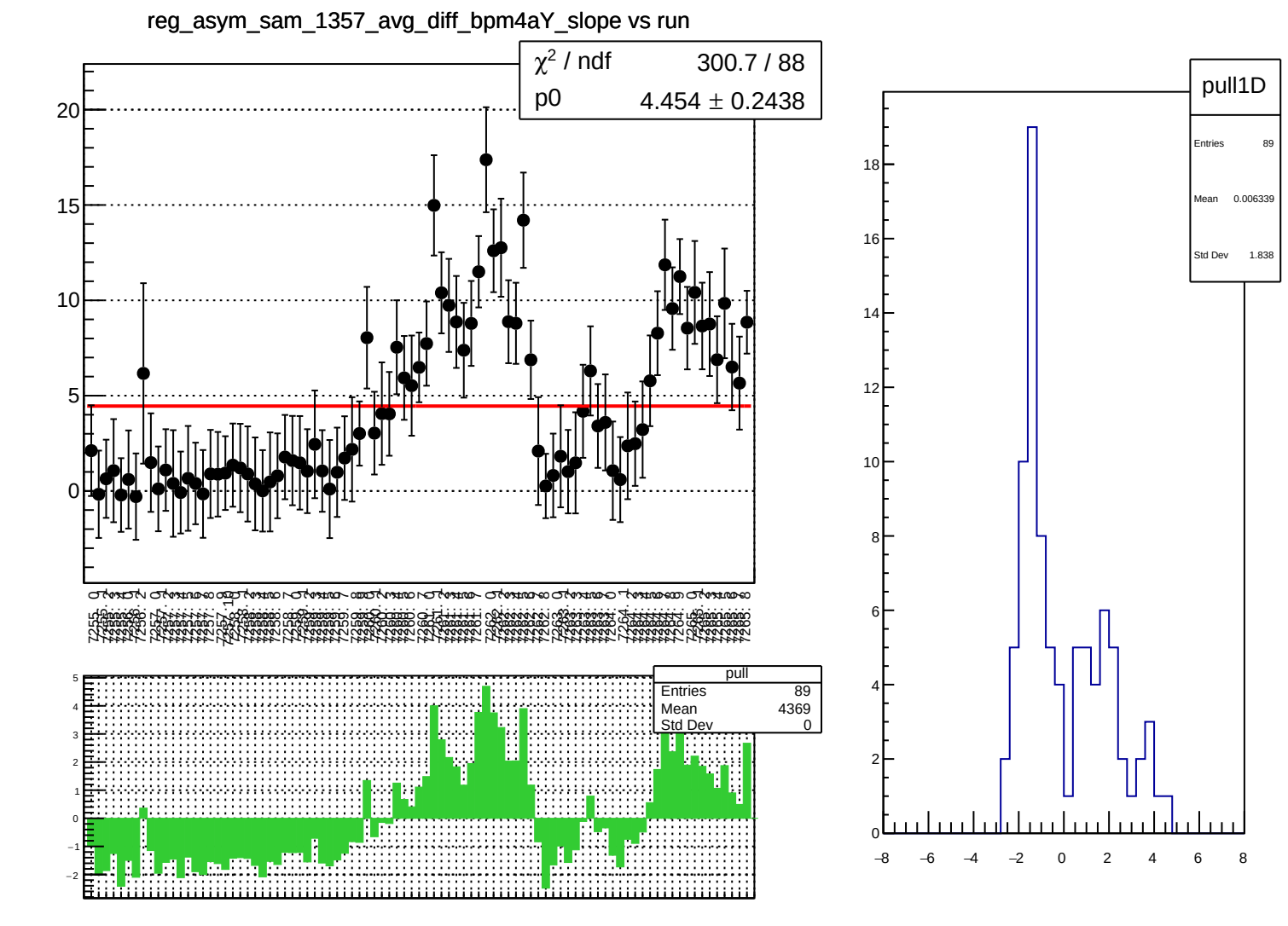

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 898.4 / 88
p0 −4.904 ± 0.1167
pull
Entries 89
Mean −114.4
Std Dev 0
pull1D
Entries 89
Mean −0.3197
Std Dev 3.161

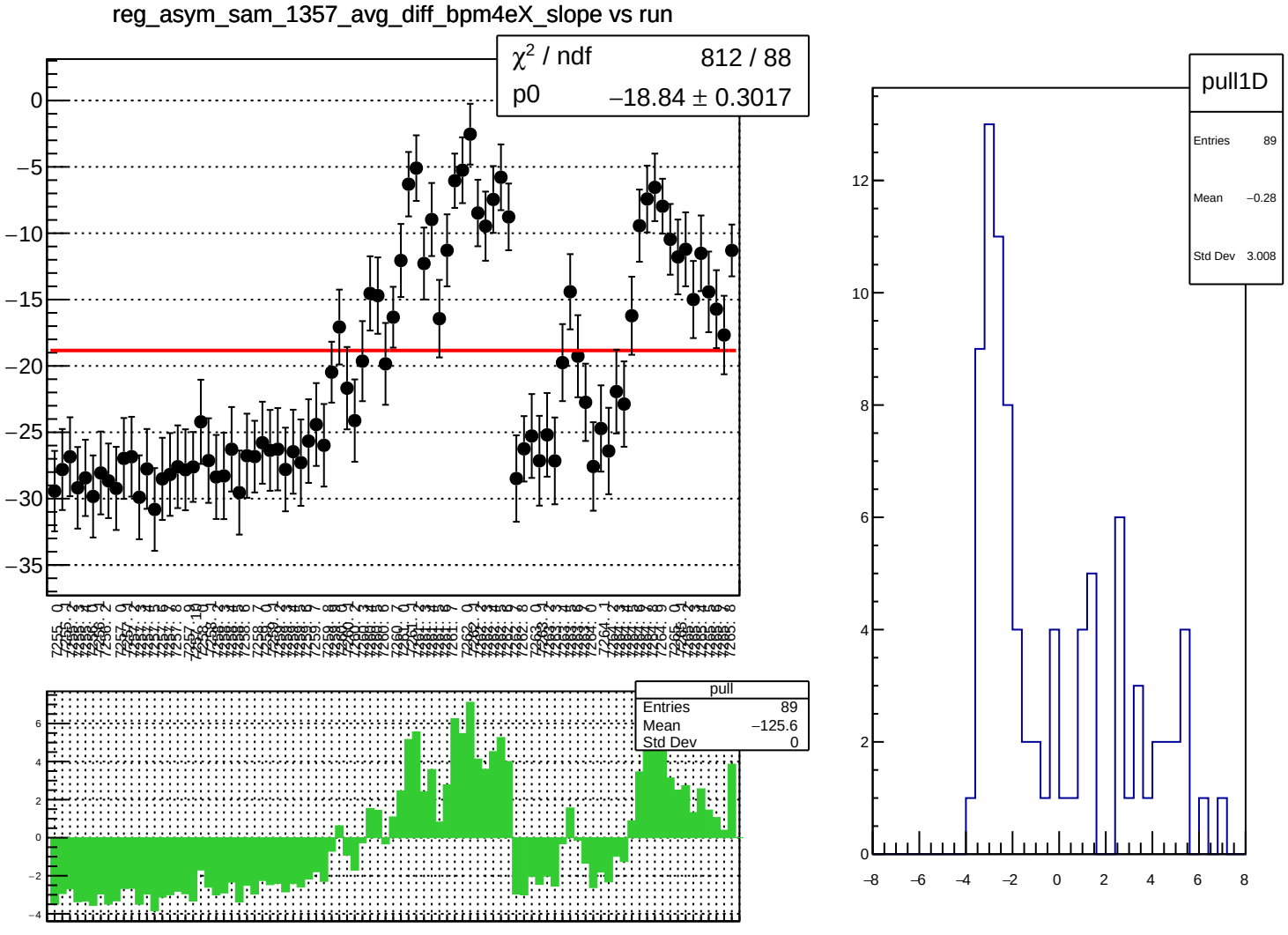

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 486.2 / 88
p0 13.77 ± 0.09931
pull
Entries 89
Mean −996.1
Std Dev 0
pull1D
Entries 89
Mean 0.03481
Std Dev 2.337

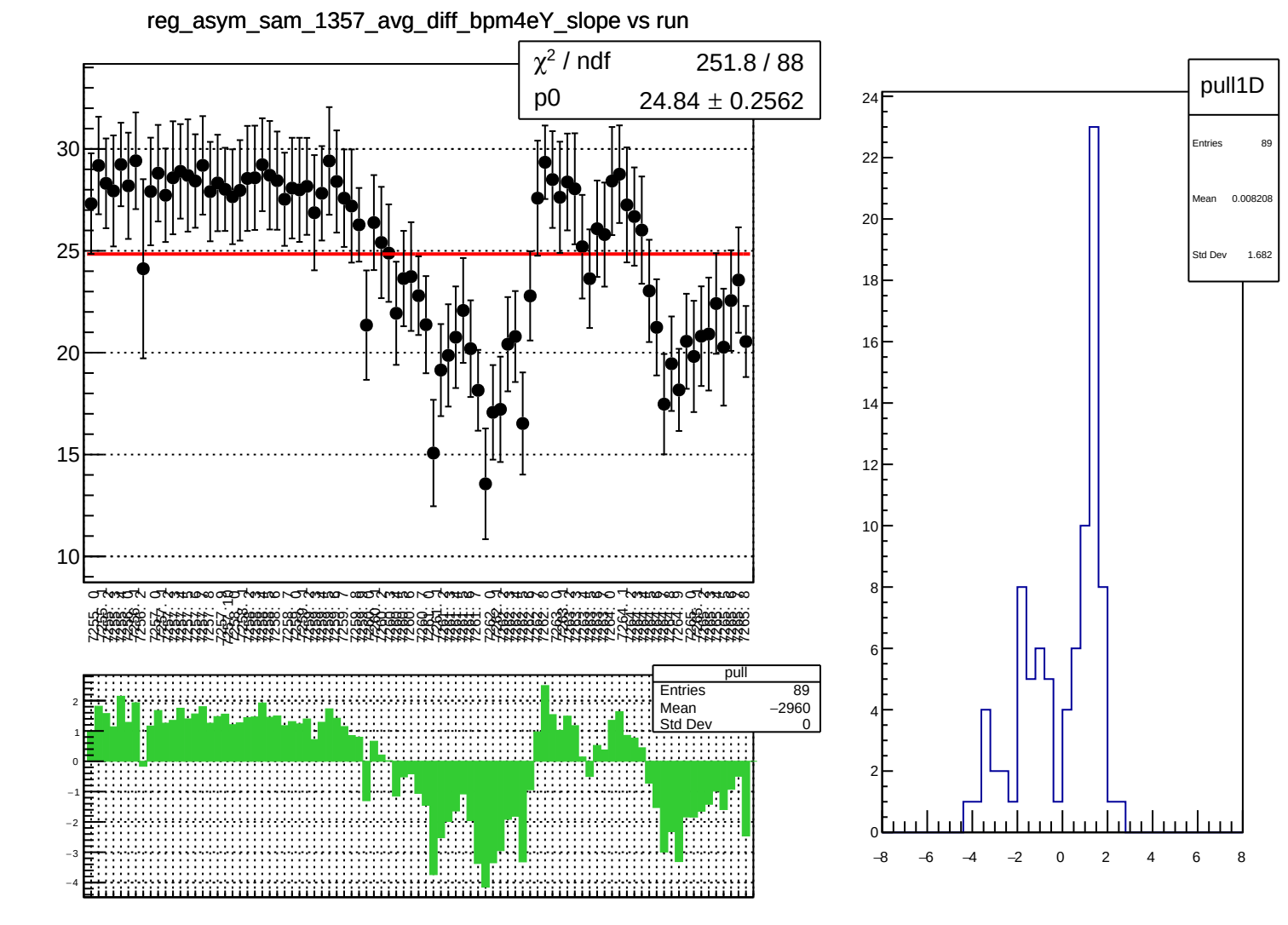

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 42.14 / 88
p0 −0.1266 ± 0.0041
pull
Entries 89
Mean 1474
Std Dev 0
pull1D
Entries 89
Mean −0.007906
Std Dev 0.6881

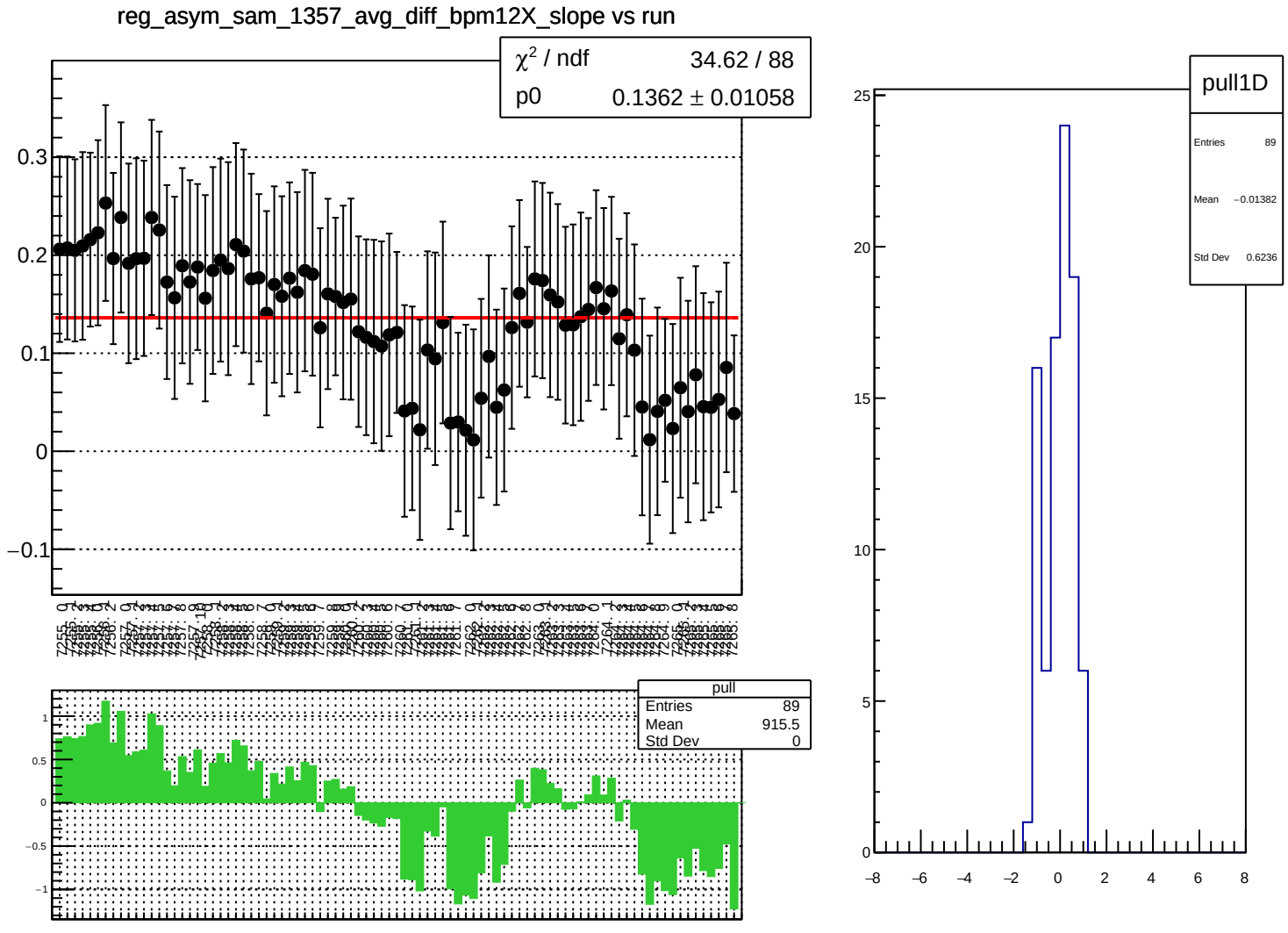

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 932.5 / 88
p0 −11.57 ± 0.2786
pull
Entries 89
Mean −136.3
Std Dev 0

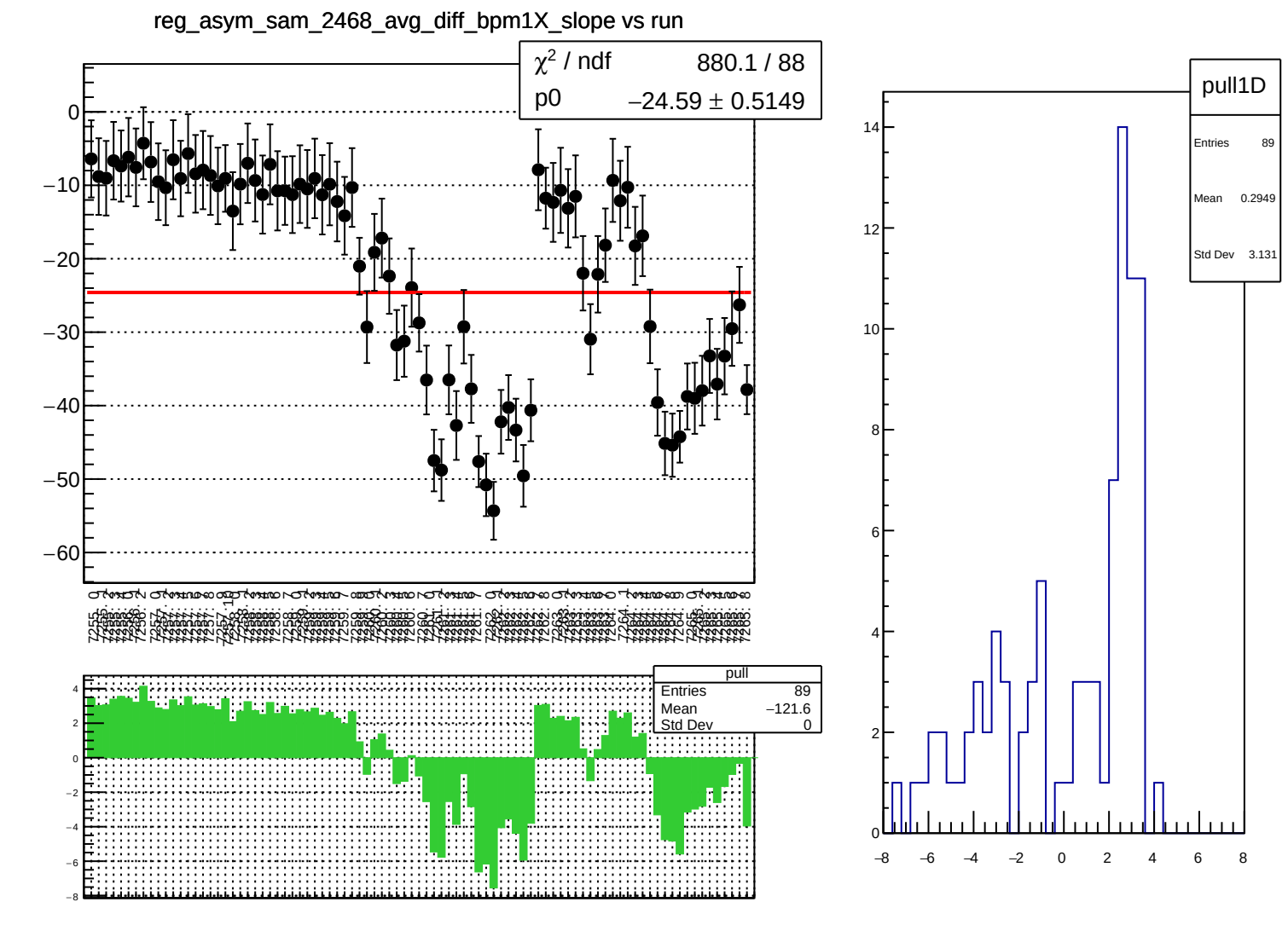

pull1D
Entries 89
Mean 0.2829
Std Dev 3.224

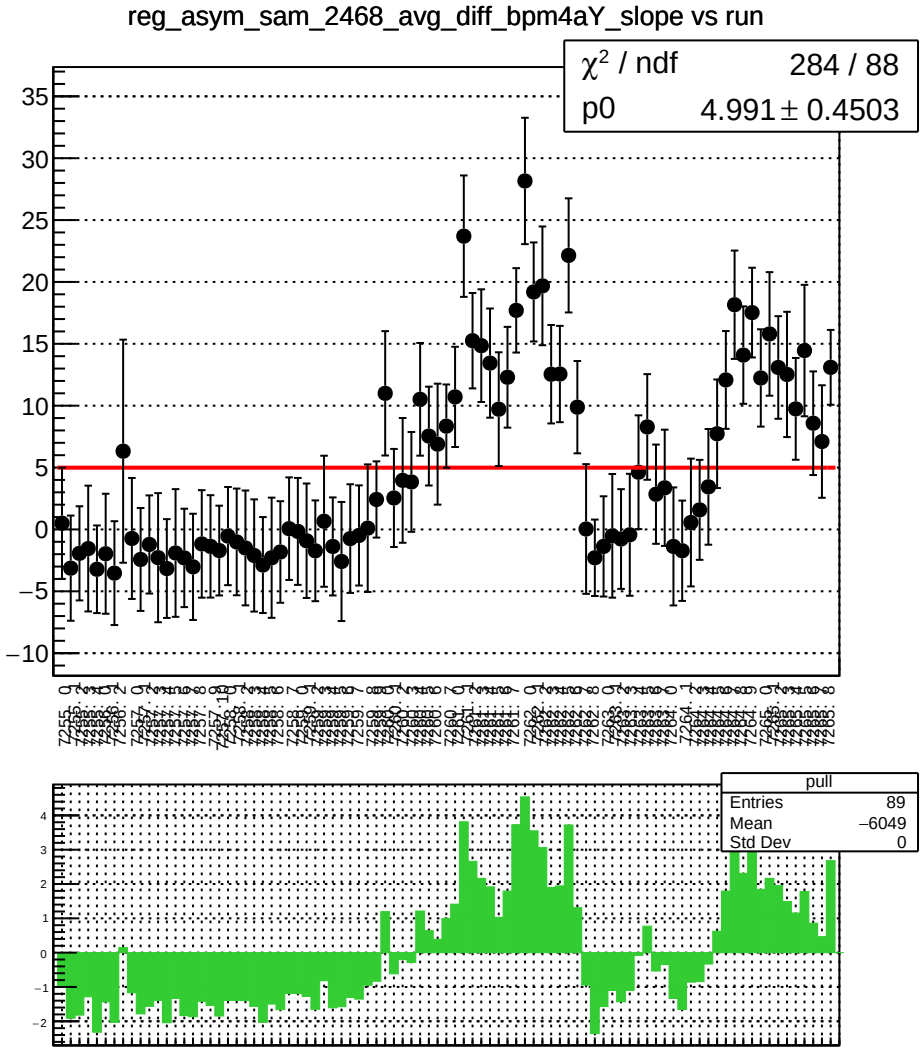

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 300.7 / 88
p0 4.454 ± 0.2438
pull
Entries 89
Mean 4369
Std Dev 0
pull1D
Entries 89
Mean 0.006339
Std Dev 1.838

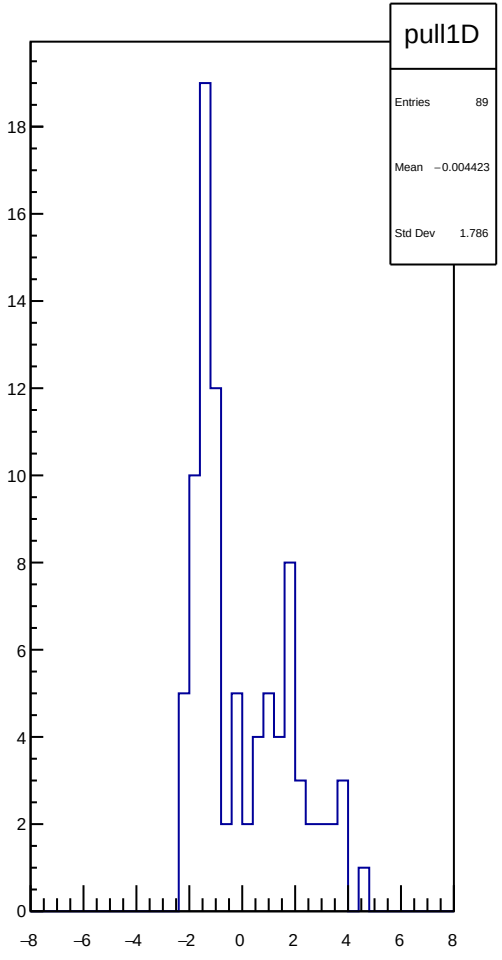

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 812 / 88
p0 −18.84 ± 0.3017
pull
Entries 89
Mean −125.6
Std Dev 0
pull1D
Entries 89
Mean −0.28
Std Dev 3.008

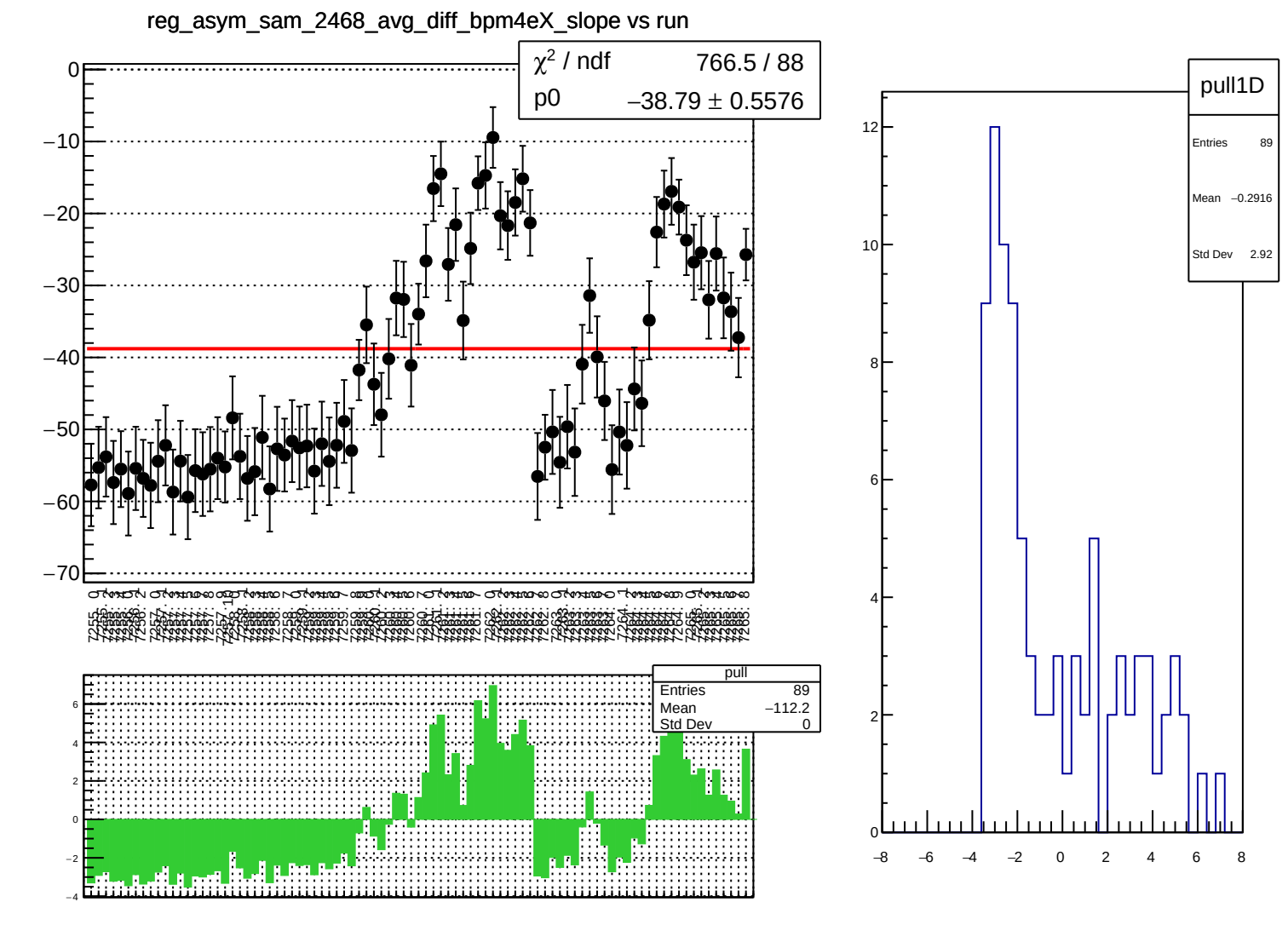

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 251.8 / 88
p0 24.84 ± 0.2562
pull
Entries 89
Mean −2960
Std Dev 0
pull1D
Entries 89
Mean 0.008208
Std Dev 1.682

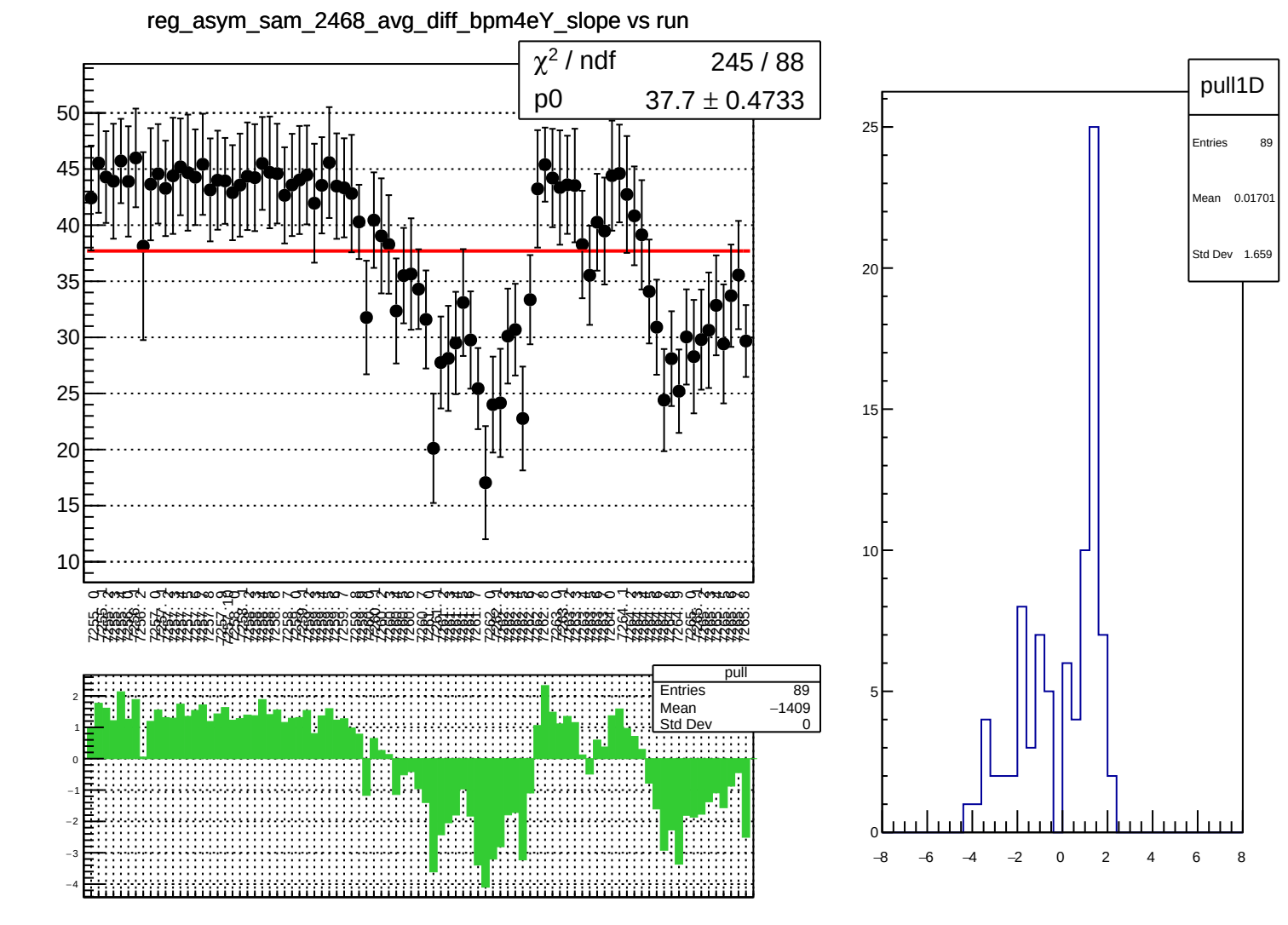

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 34.62 / 88
p0 0.1362 ± 0.01058
0.3
0.2
0.1
0
−0.1
pull
Entries 89
Mean 915.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.01382
Std Dev 0.6236
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

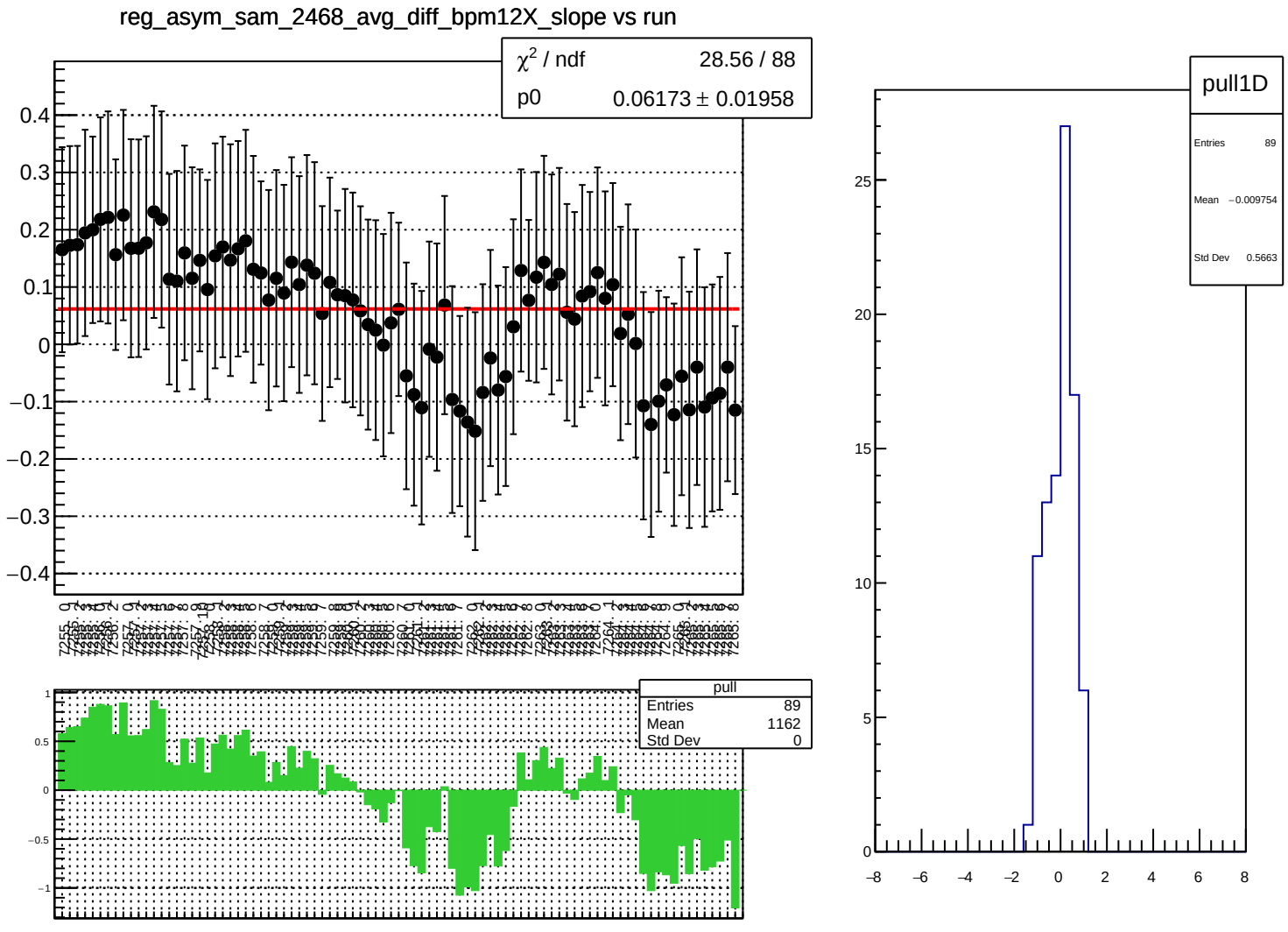

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 880.1 / 88
p0 −24.59 ± 0.5149
pull
Entries 89
Mean −121.6
Std Dev 0
pull1D
Entries 89
Mean 0.2949
Std Dev 3.131

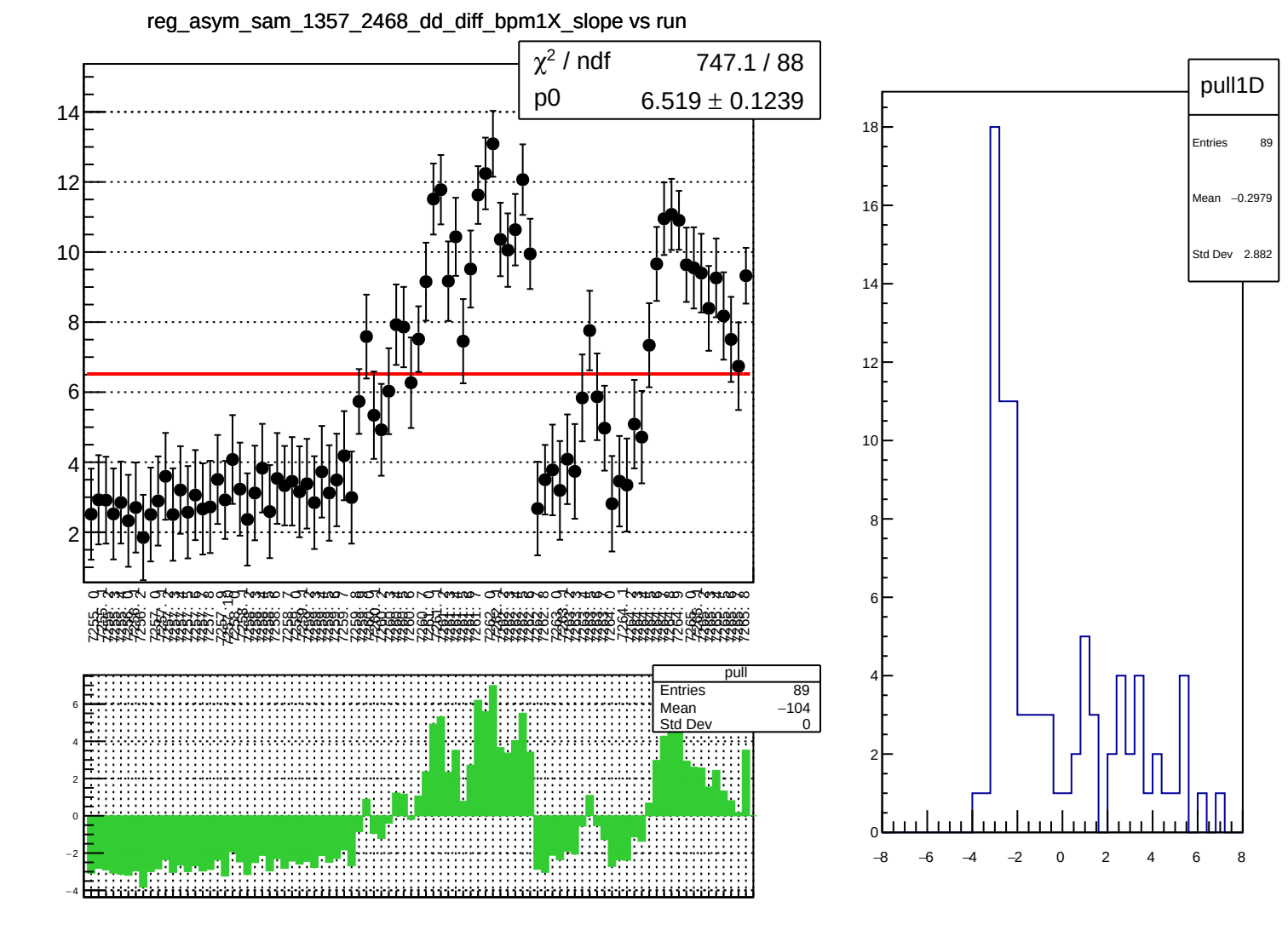

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 284 / 88
p0 4.991 ± 0.4503
pull
Entries 89
Mean −6049
Std Dev 0

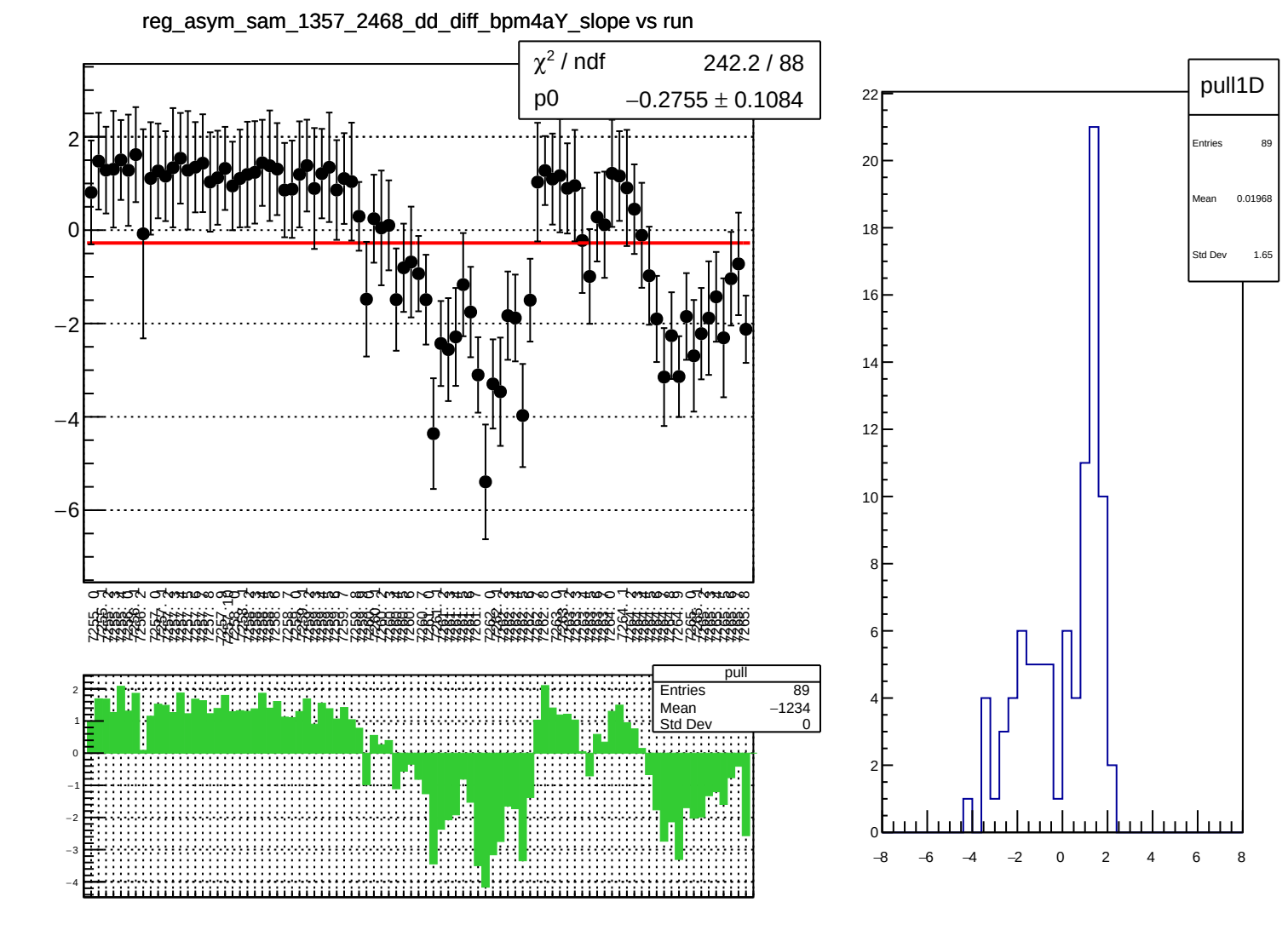

pull1D
Entries 89
Mean −0.004423
Std Dev 1.786

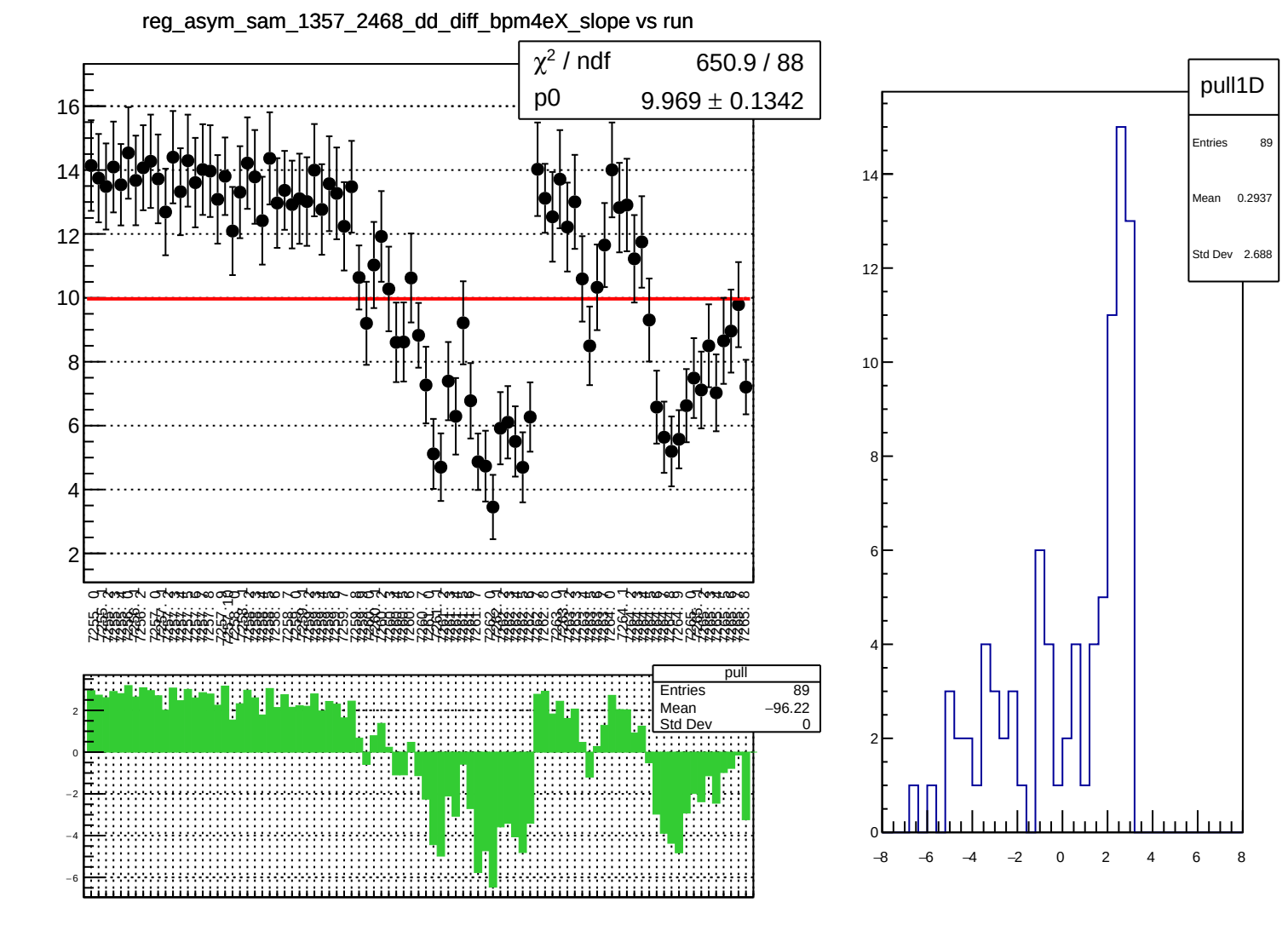

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 766.5 / 88
p0 −38.79 ± 0.5576
pull
Entries 89
Mean −112.2
Std Dev 0
pull1D
Entries 89
Mean −0.2916
Std Dev 2.92

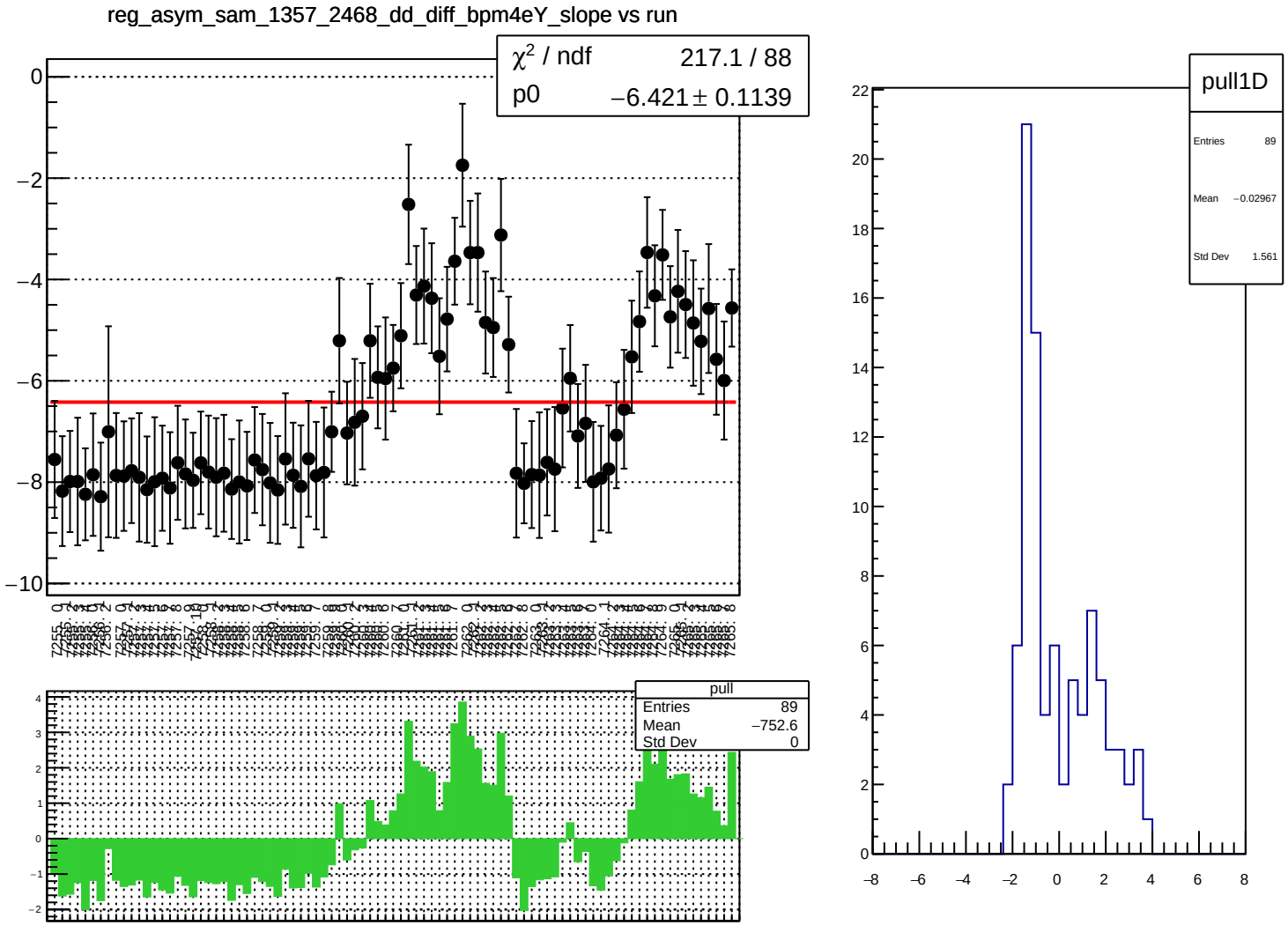

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 245 / 88
p0 37.7 ± 0.4733
pull
Entries 89
Mean −1409
Std Dev 0
pull1D
Entries 89
Mean 0.01701
Std Dev 1.659

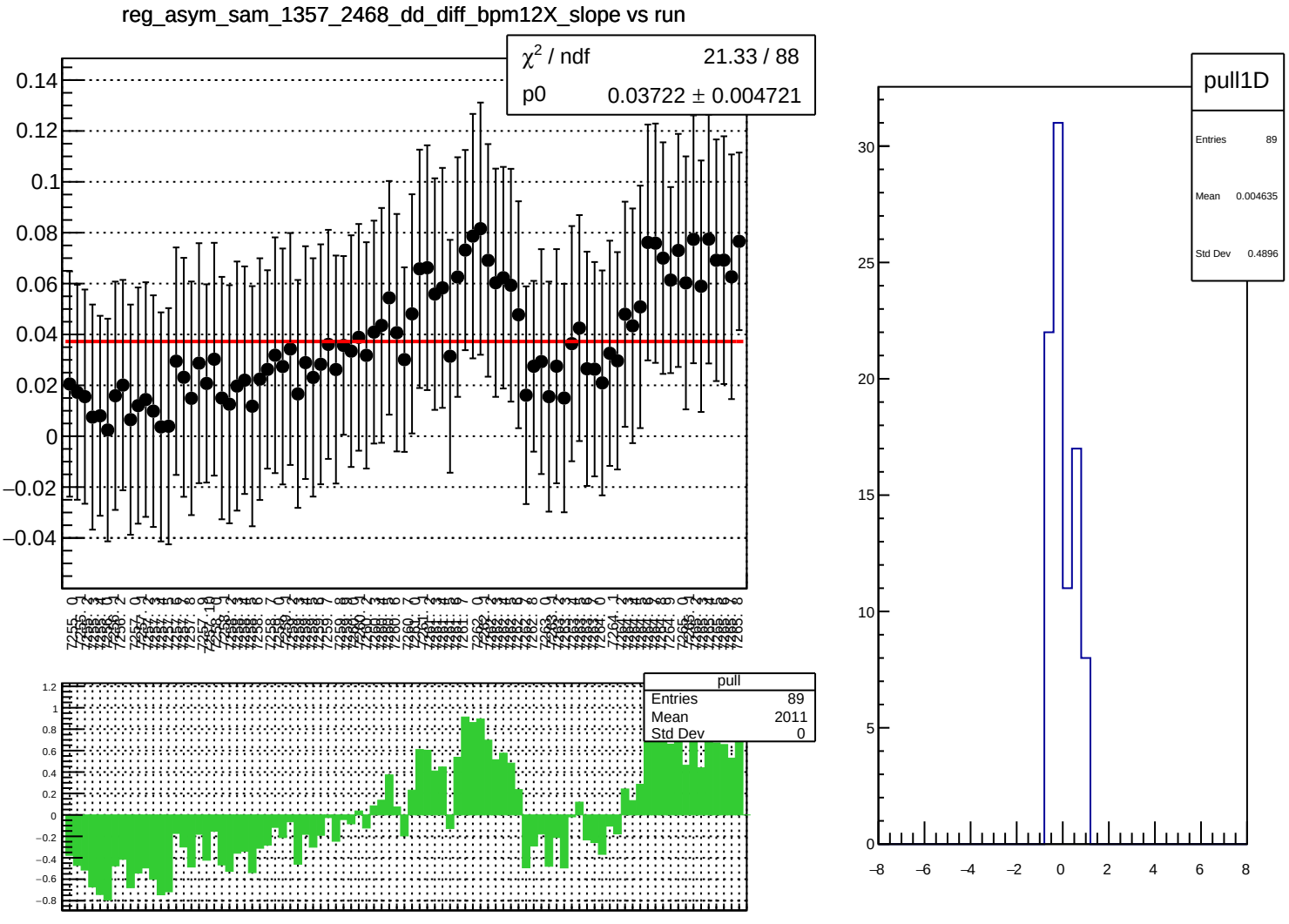

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 28.56 / 88
p0 0.06173 ± 0.01958
pull
Entries 89
Mean 1162
Std Dev 0
pull1D
Entries 89
Mean −0.009754
Std Dev 0.5663

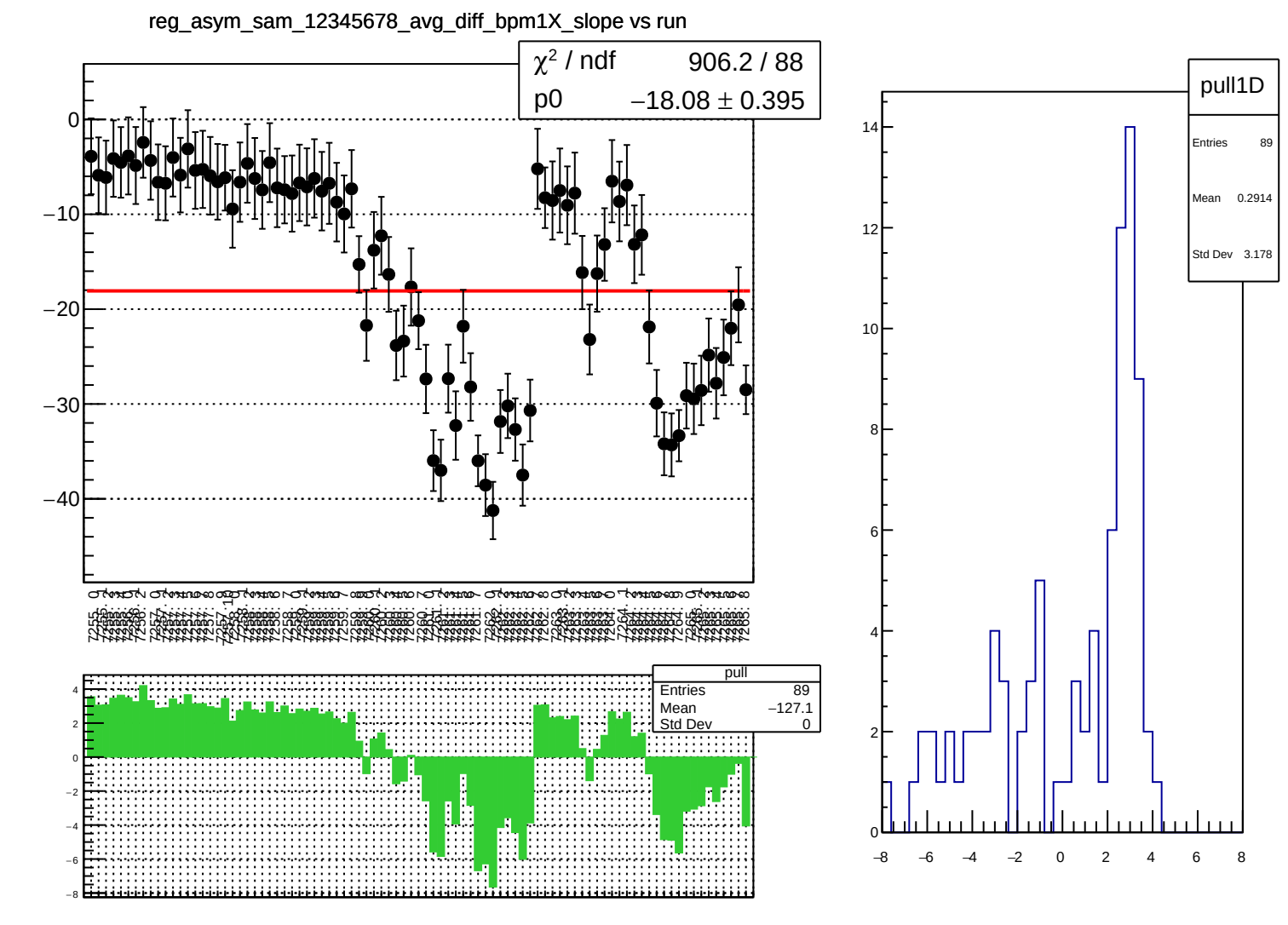

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 747.1 / 88
p0 6.519 ± 0.1239
pull
Entries 89
Mean −104
Std Dev 0
pull1D
Entries 89
Mean −0.2979
Std Dev 2.882

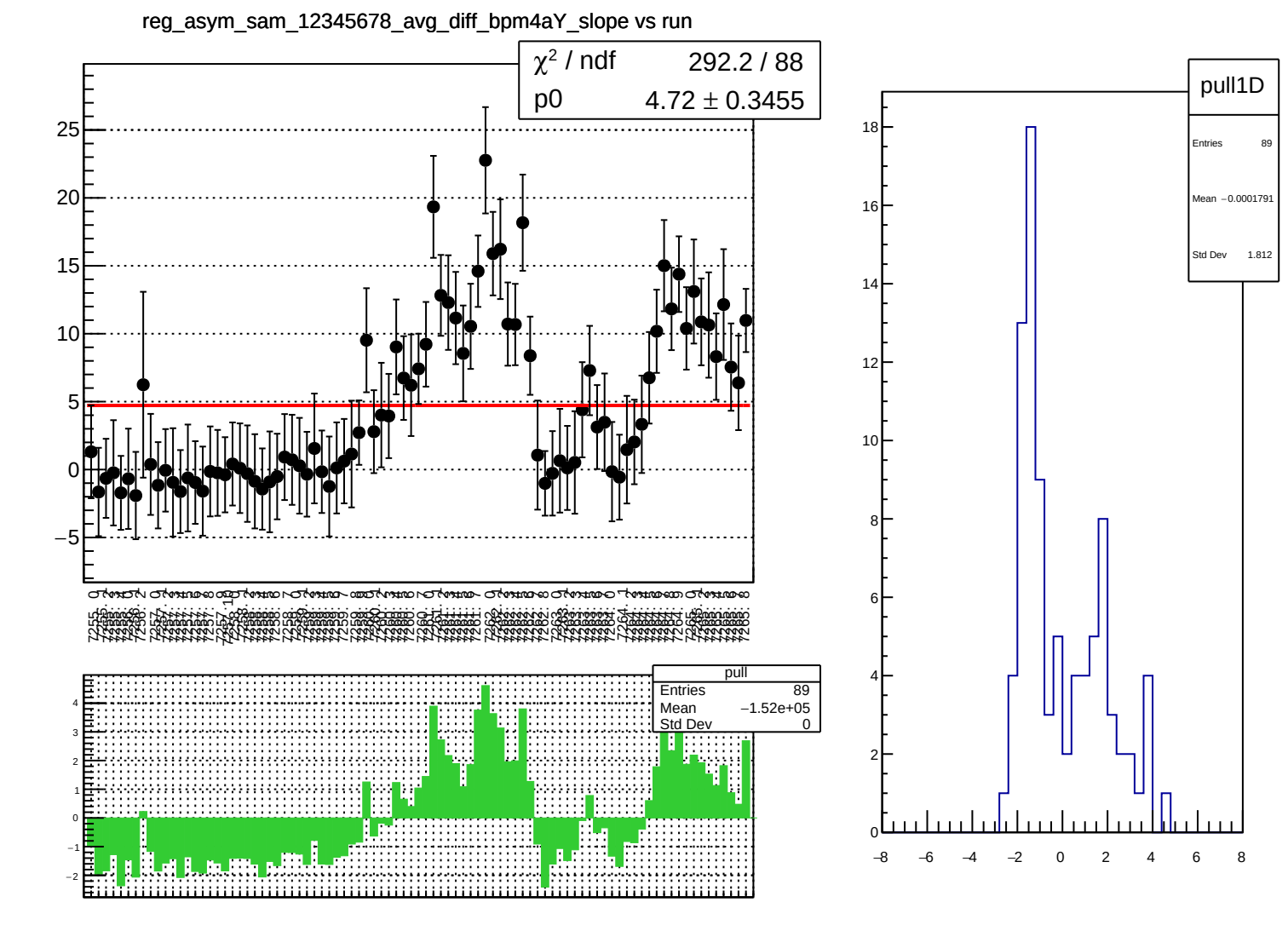

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 242.2 / 88
p0 −0.2755 ± 0.1084
pull
Entries 89
Mean −1234
Std Dev 0
pull1D
Entries 89
Mean 0.01968
Std Dev 1.65

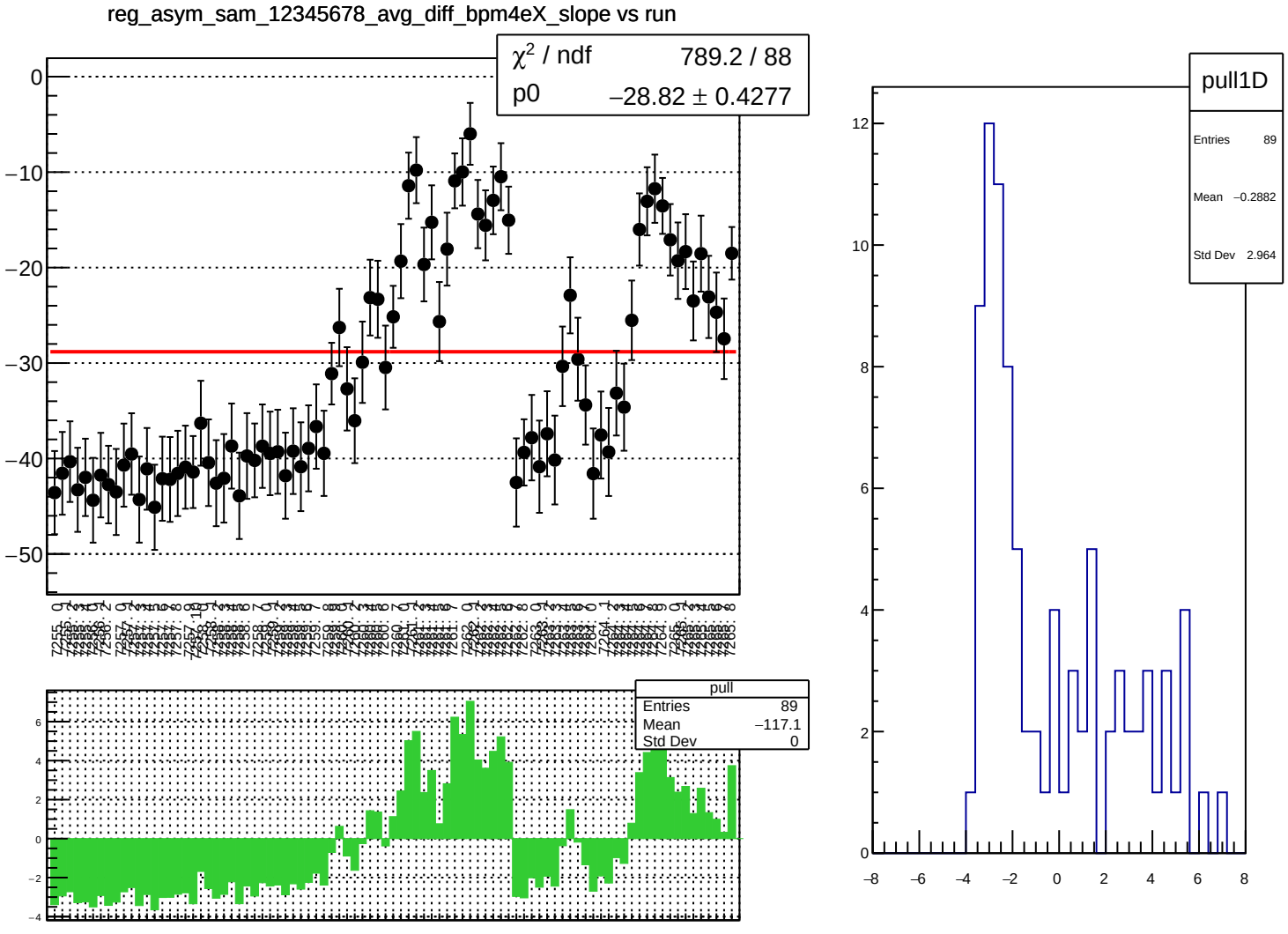

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 650.9 / 88
p0 9.969 ± 0.1342
pull
Entries 89
Mean −96.22
Std Dev 0
pull1D
Entries 89
Mean 0.2937
Std Dev 2.688

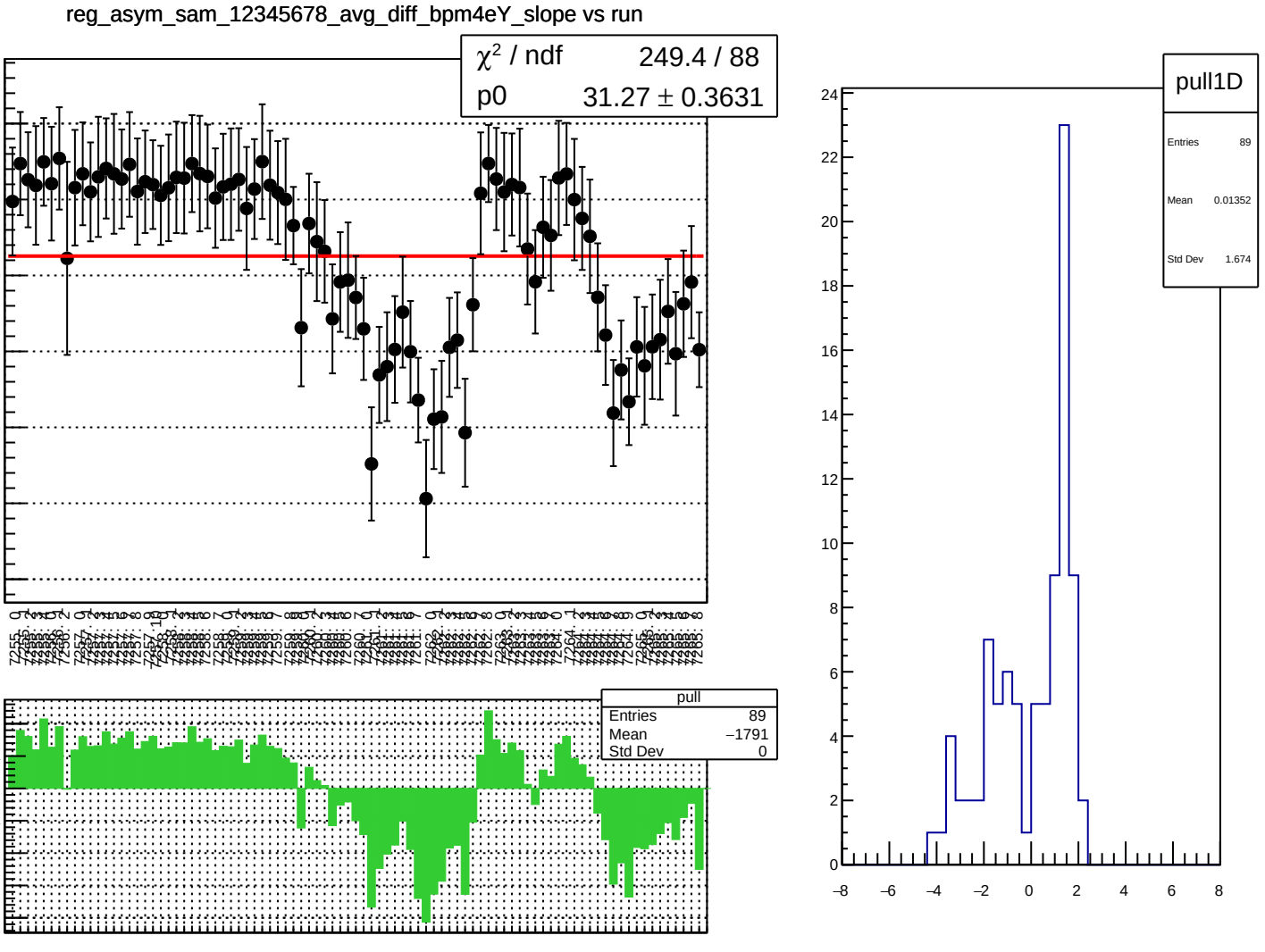

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 217.1 / 88
p0 −6.421 ± 0.1139
pull
Entries 89
Mean −752.6
Std Dev 0
pull1D
Entries 89
Mean −0.02967
Std Dev 1.561

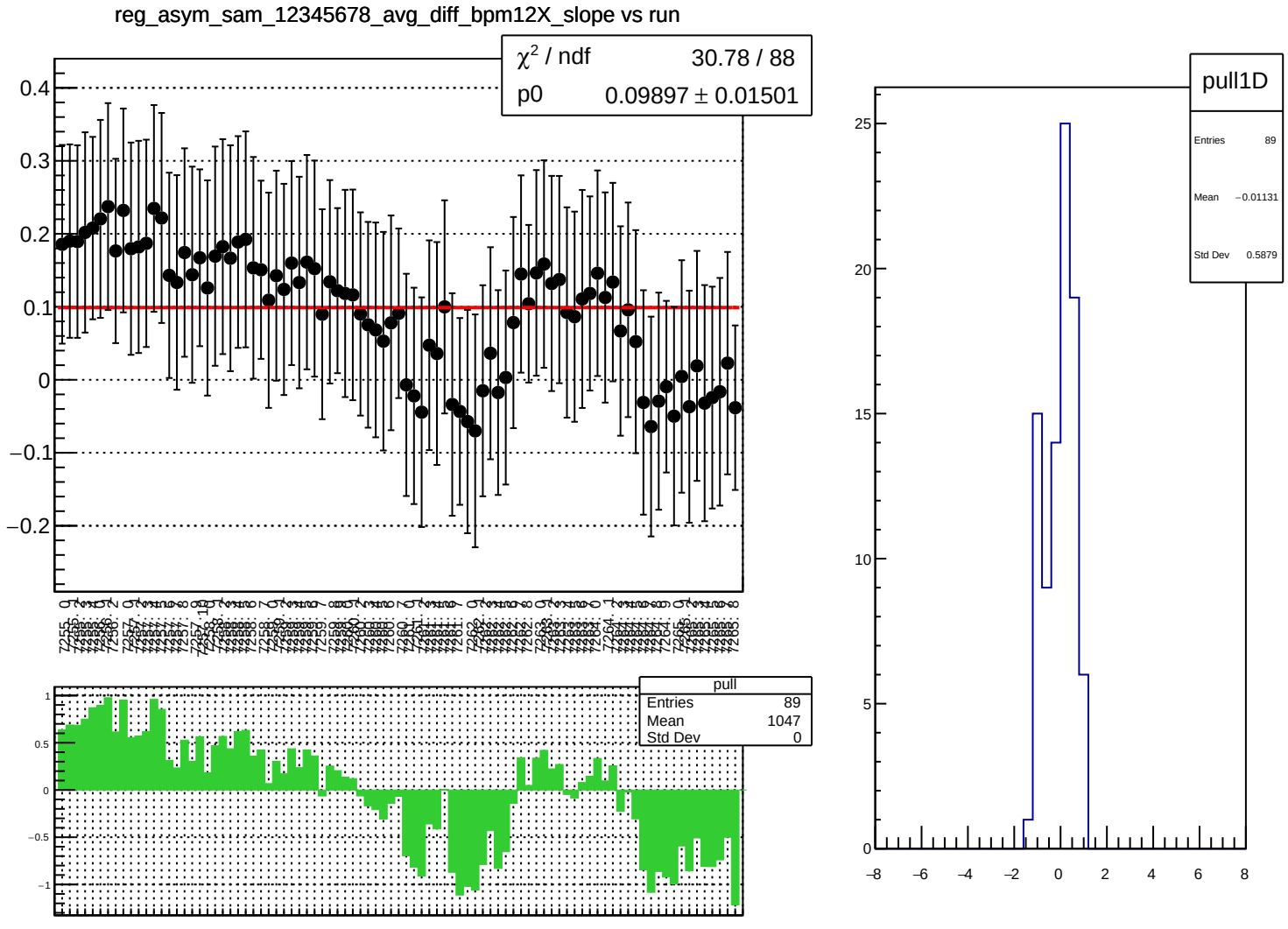

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 21.33 / 88
p0 0.03722 ± 0.004721
pull
Entries 89
Mean 2011
Std Dev 0
pull1D
Entries 89
Mean 0.004635
Std Dev 0.4896

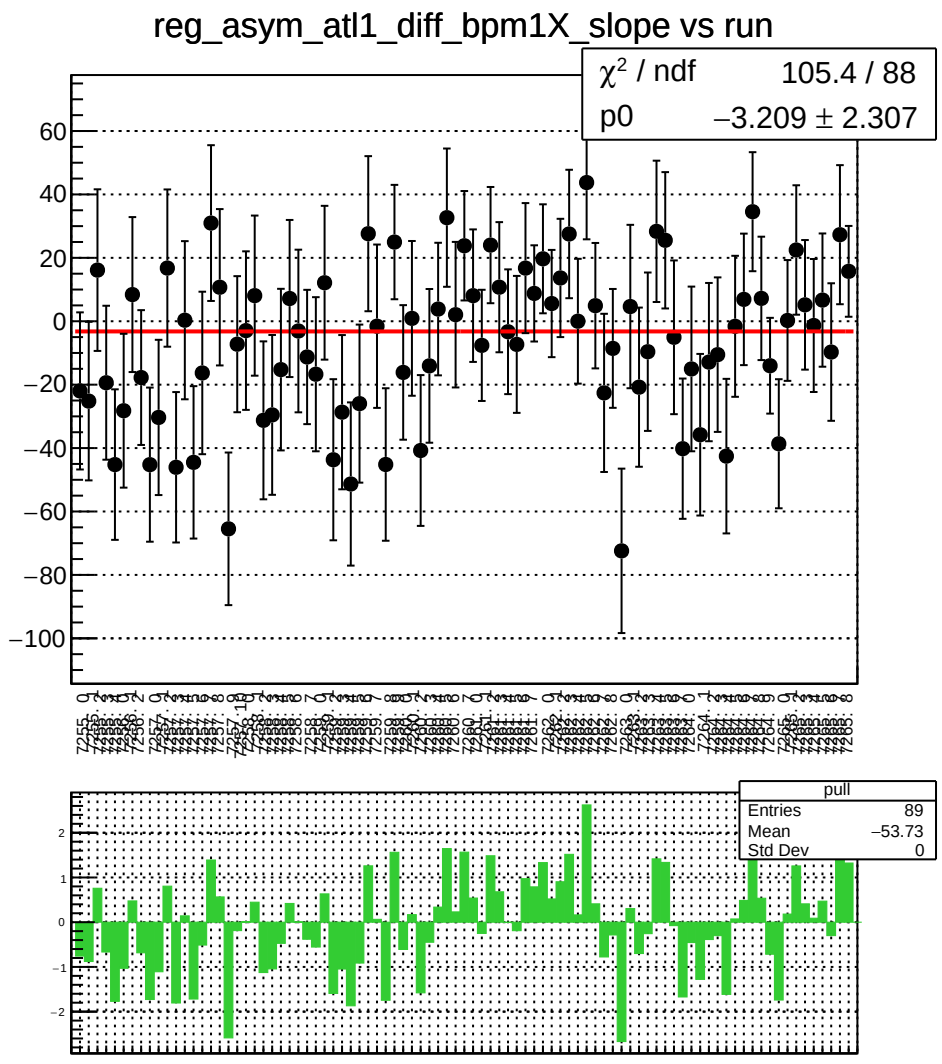

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 906.2 / 88
p0 −18.08 ± 0.395
pull
Entries 89
Mean −127.1
Std Dev 0
pull1D
Entries 89
Mean 0.2914
Std Dev 3.178

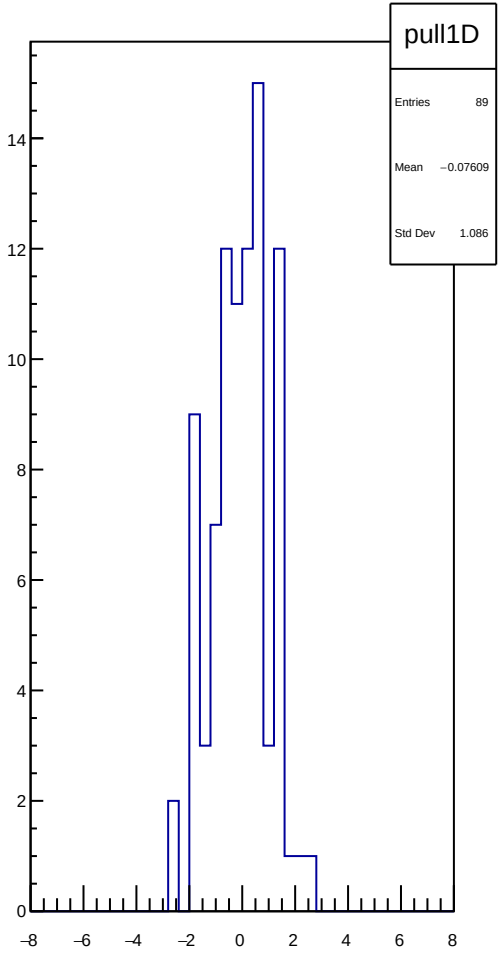

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 292.2 / 88
p0 4.72 ± 0.3455
pull
Entries 89
Mean −1.52e+05
Std Dev 0
pull1D
Entries 89
Mean −0.0001791
Std Dev 1.812

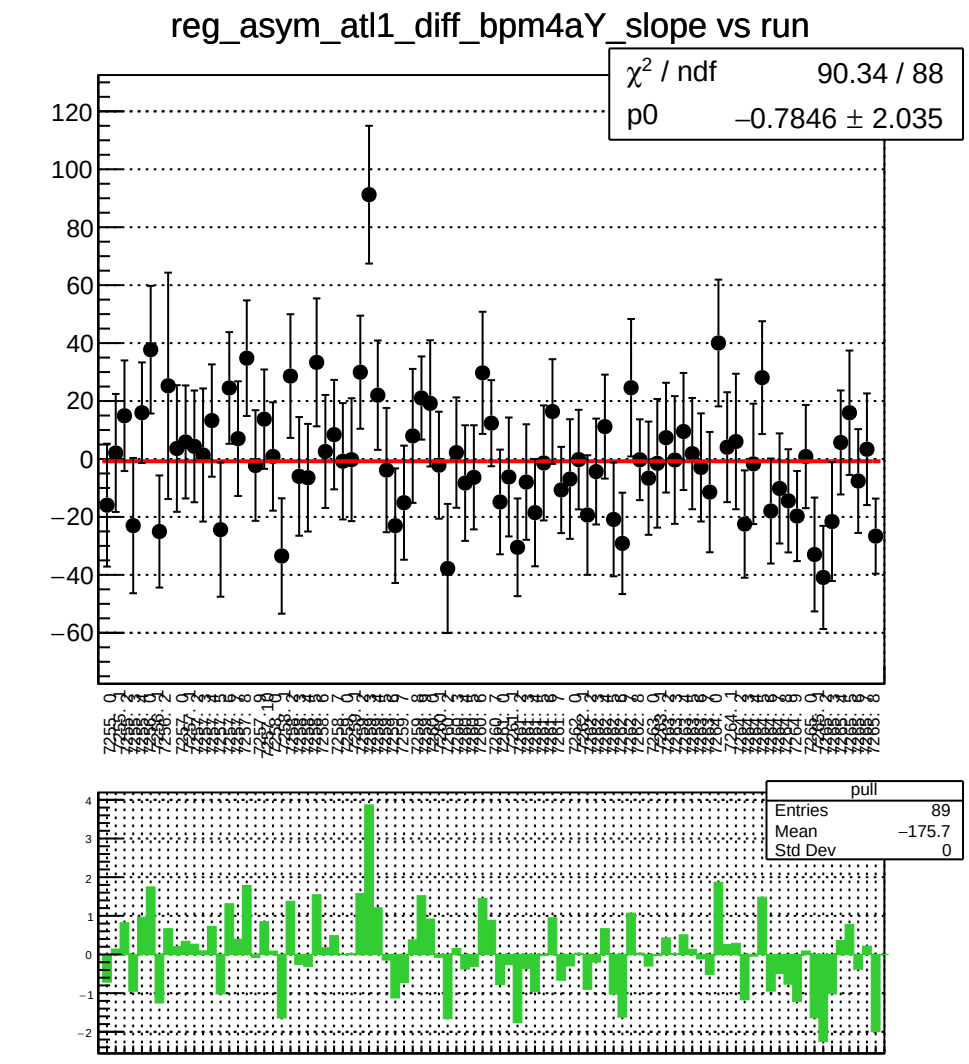

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 789.2 / 88
p0 −28.82 ± 0.4277
pull
Entries 89
Mean −117.1
Std Dev 0
pull1D
Entries 89
Mean −0.2882
Std Dev 2.964

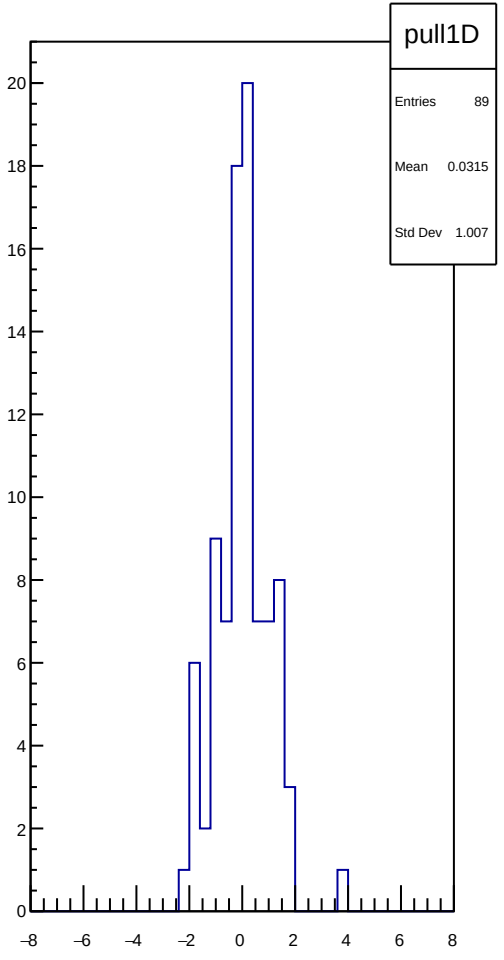

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 249.4 / 88
p0 31.27 ± 0.3631
pull
Entries 89
Mean −1791
Std Dev 0
pull1D
Entries 89
Mean 0.01352
Std Dev 1.674

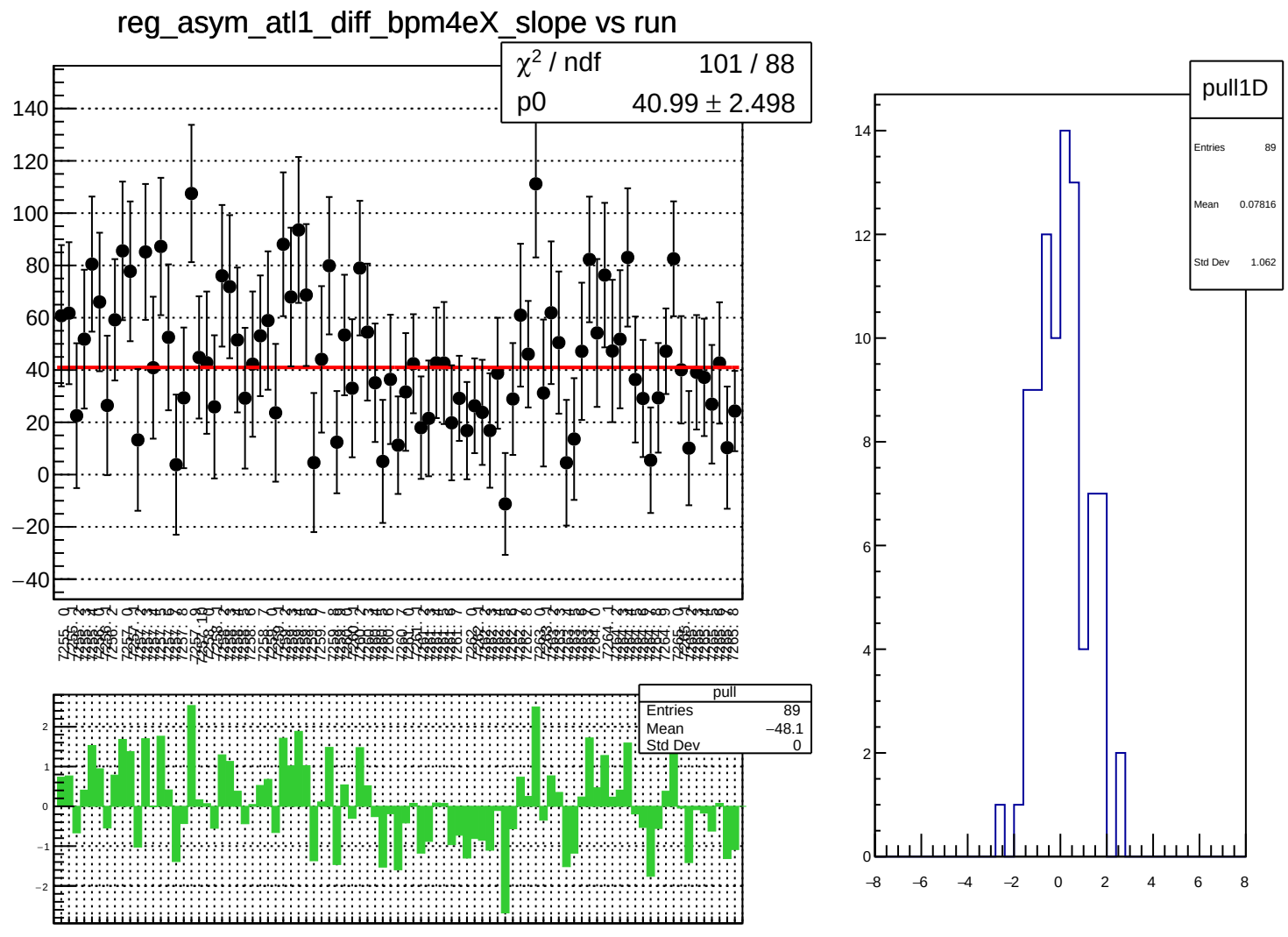

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 30.78 / 88
p0 0.09897 ± 0.01501
pull
Entries 89
Mean 1047
Std Dev 0
pull1D
Entries 89
Mean −0.01131
Std Dev 0.5879

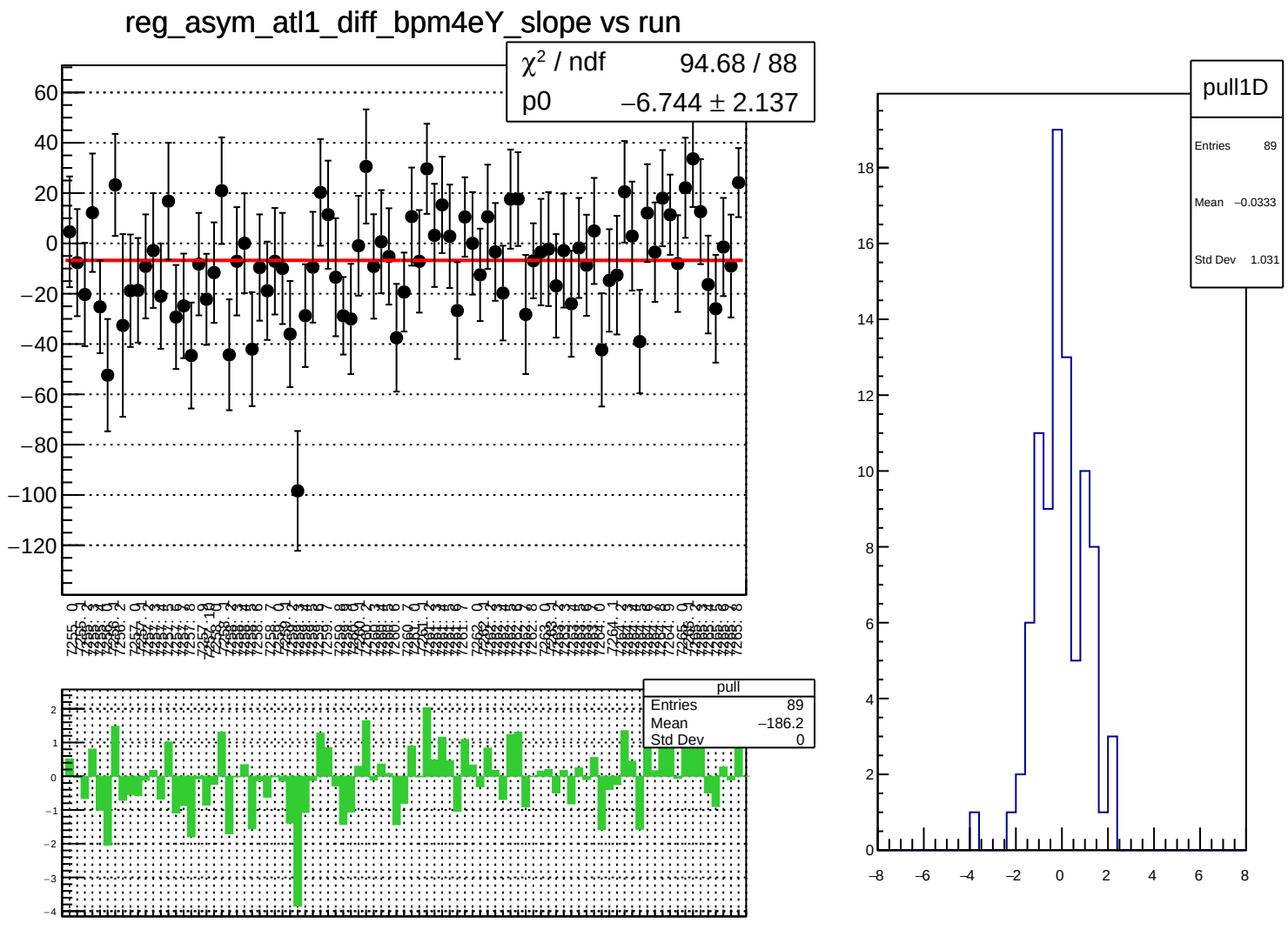

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 105.4 / 88
p0 −3.209 ± 2.307
pull
Entries 89
Mean −53.73
Std Dev 0

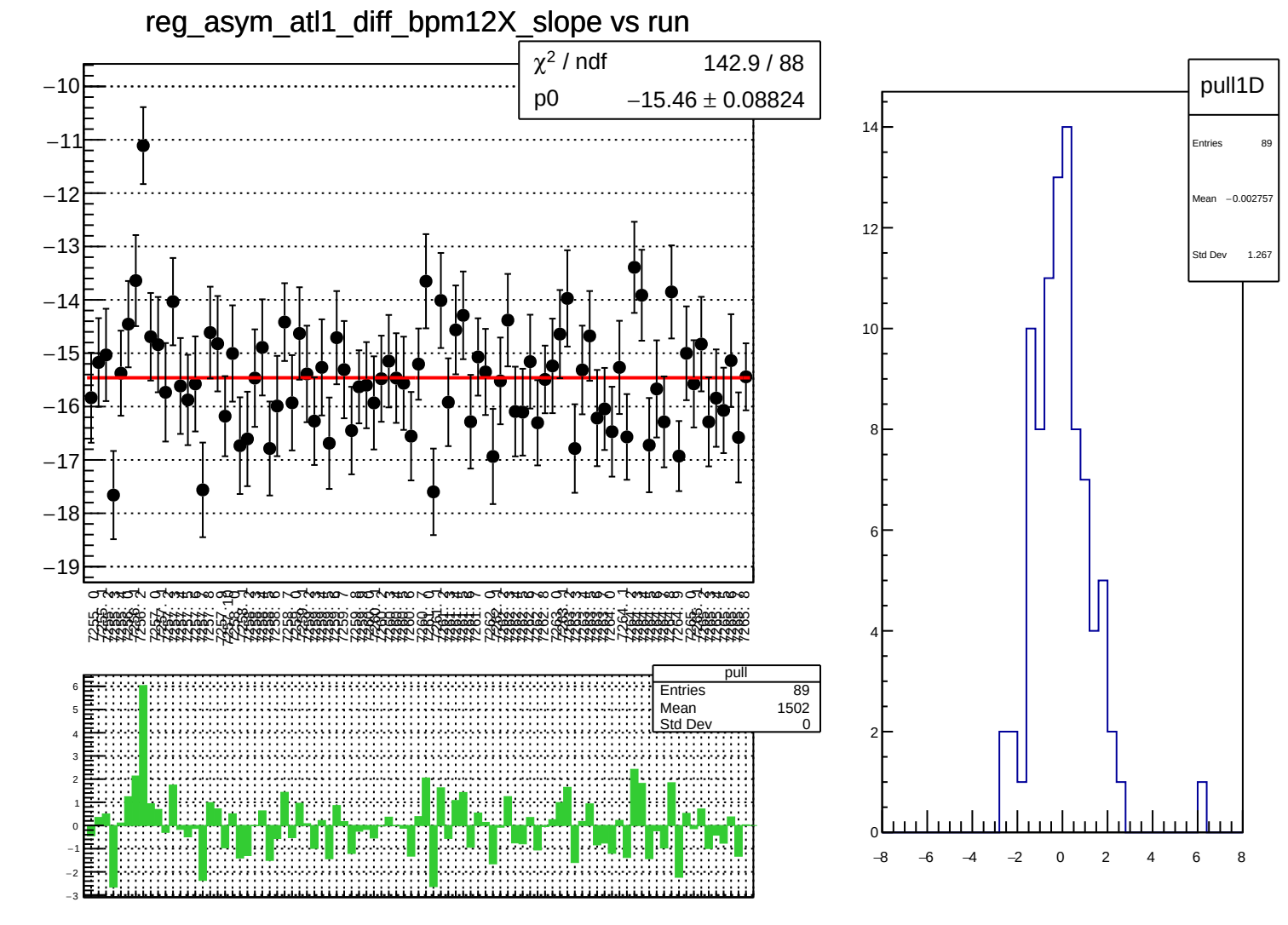

pull1D
Entries 89
Mean −0.07609
Std Dev 1.086

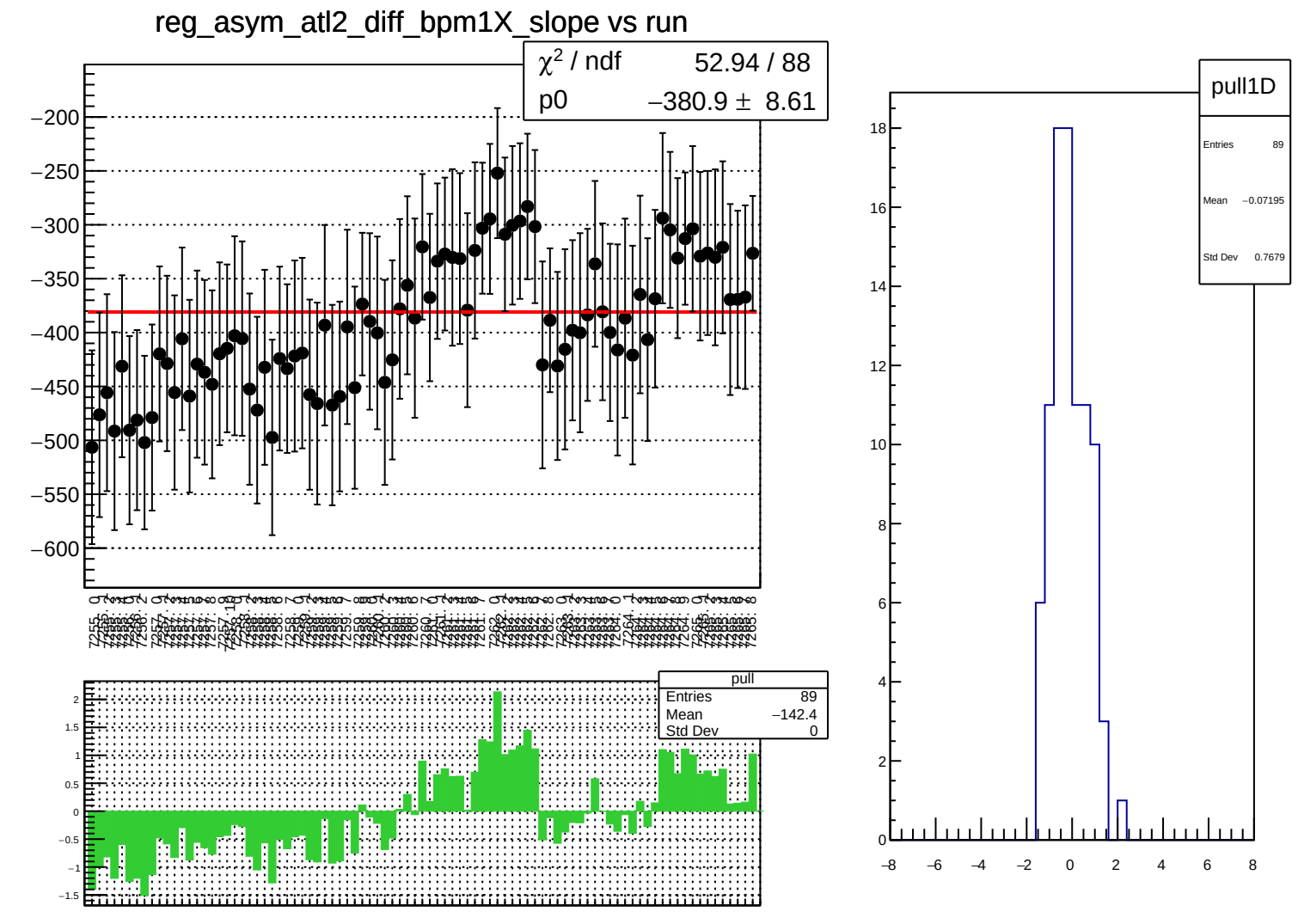

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 90.34 / 88
p0 −0.7846 ± 2.035
pull
Entries 89
Mean −175.7
Std Dev 0

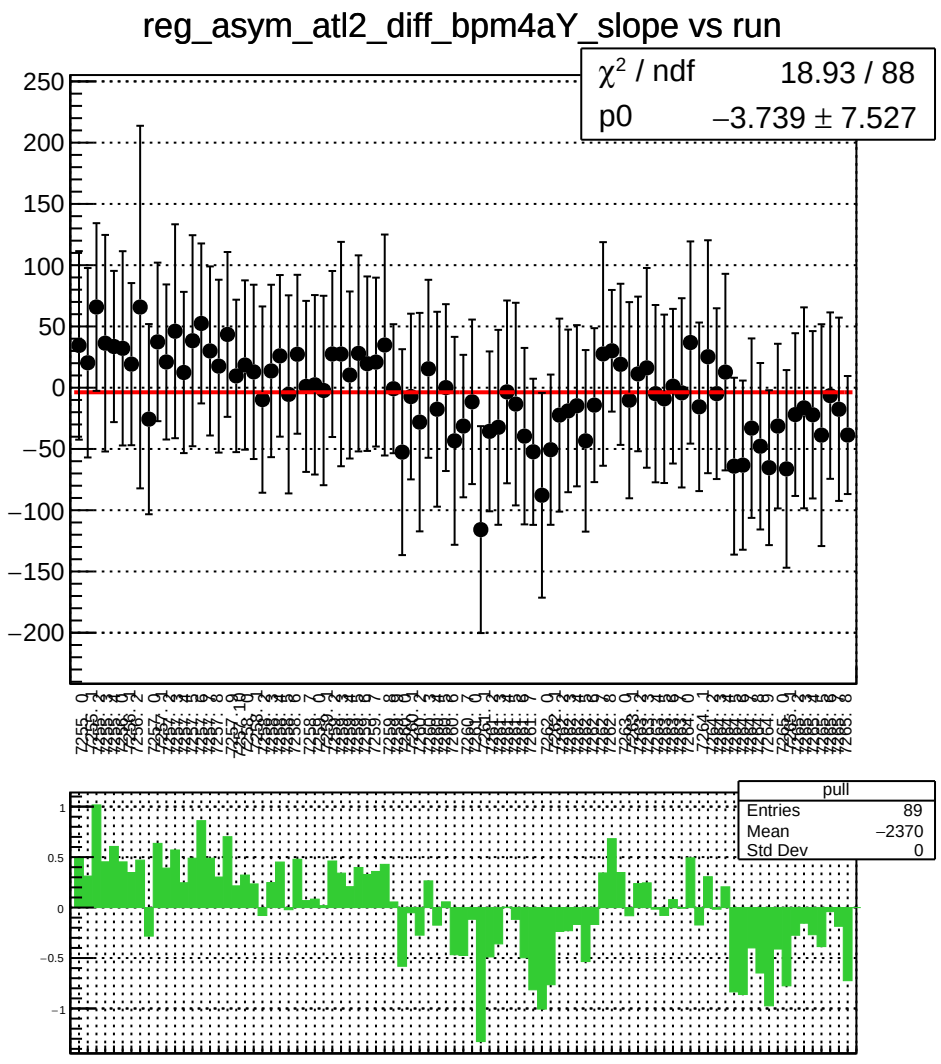

pull1D
Entries 89
Mean 0.0315
Std Dev 1.007

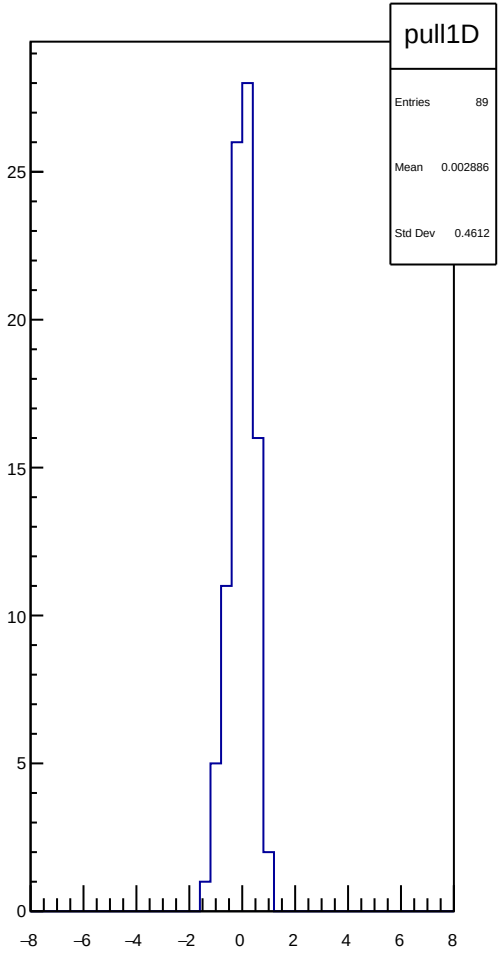

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 101 / 88
p0 40.99 ± 2.498
pull
Entries 89
Mean −48.1
Std Dev 0
pull1D
Entries 89
Mean 0.07816
Std Dev 1.062

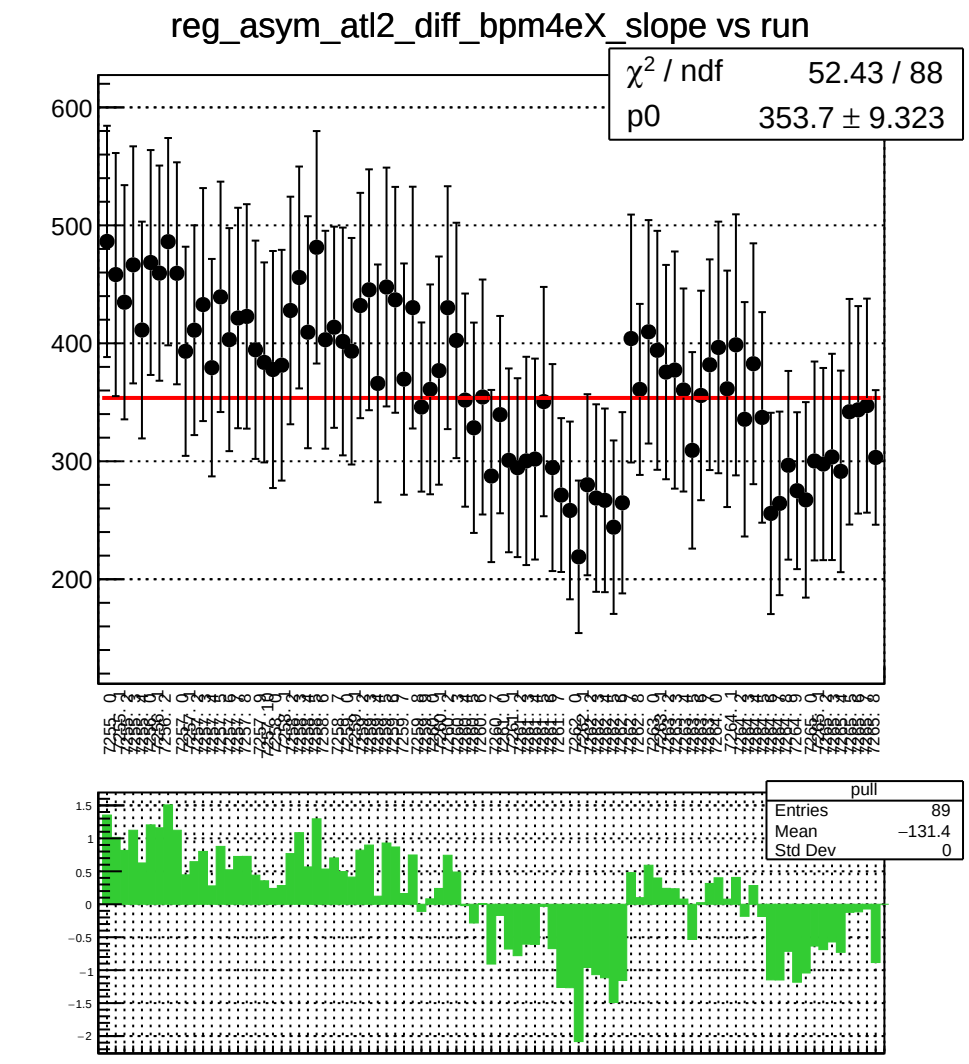

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 94.68 / 88
p0 −6.744 ± 2.137
pull
Entries 89
Mean −186.2
Std Dev 0
pull1D
Entries 89
Mean −0.0333
Std Dev 1.031

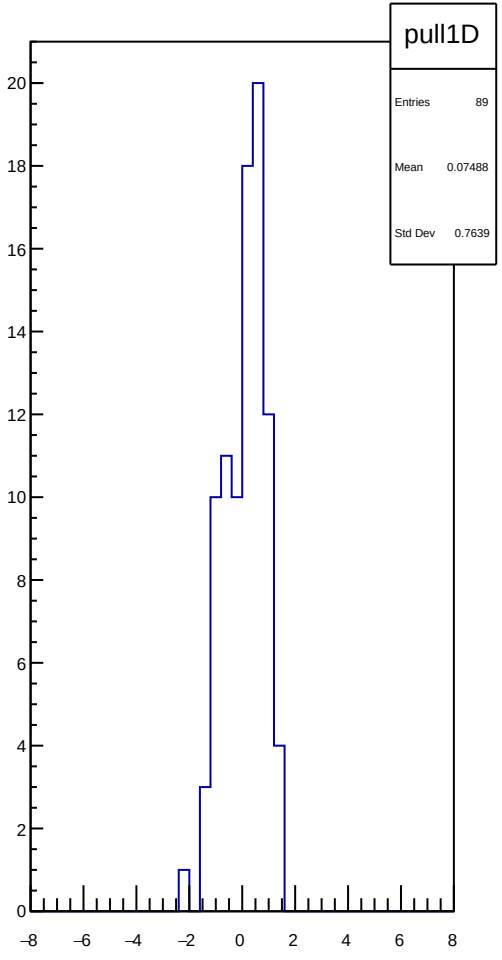

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 142.9 / 88
p0 −15.46 ± 0.08824
pull
Entries 89
Mean 1502
Std Dev 0
pull1D
Entries 89
Mean −0.002757
Std Dev 1.267

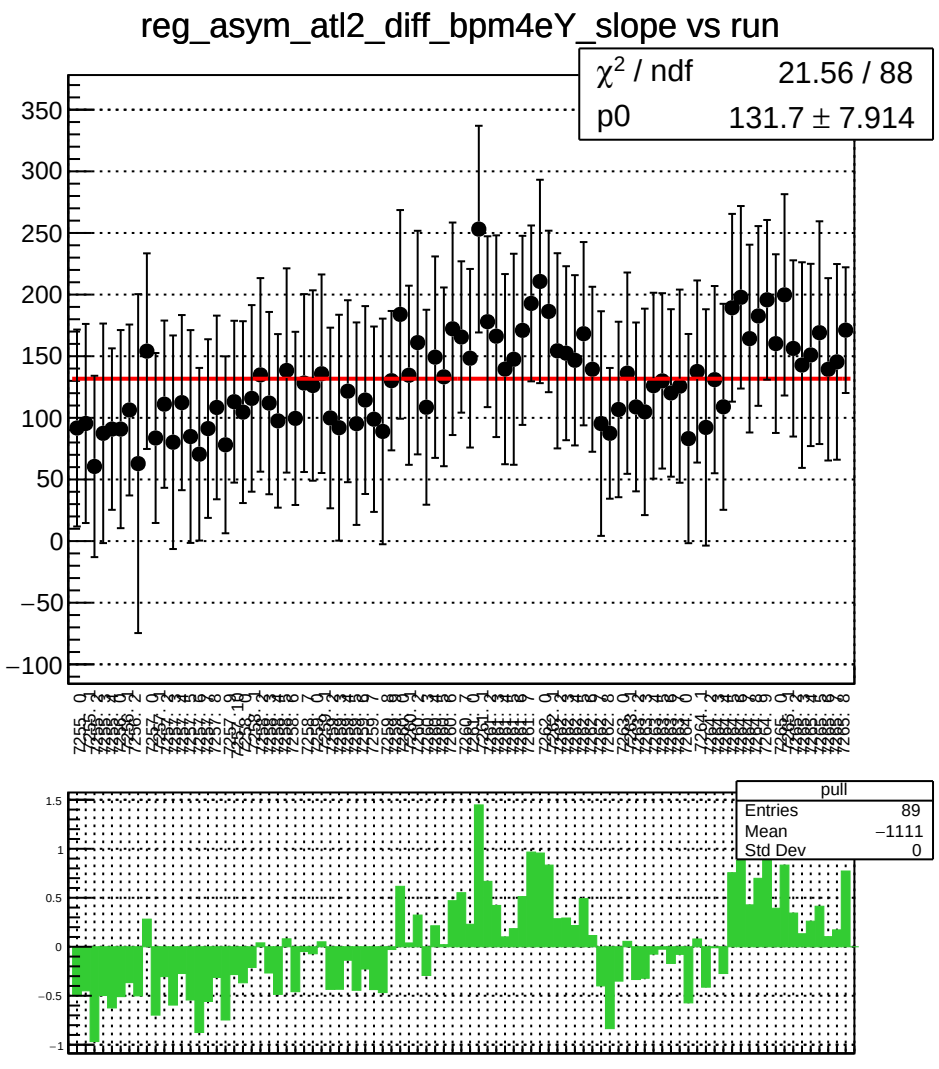

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 52.94 / 88
p0 −380.9 ± 8.61
pull
Entries 89
Mean −142.4
Std Dev 0
pull1D
Entries 89
Mean −0.07195
Std Dev 0.7679

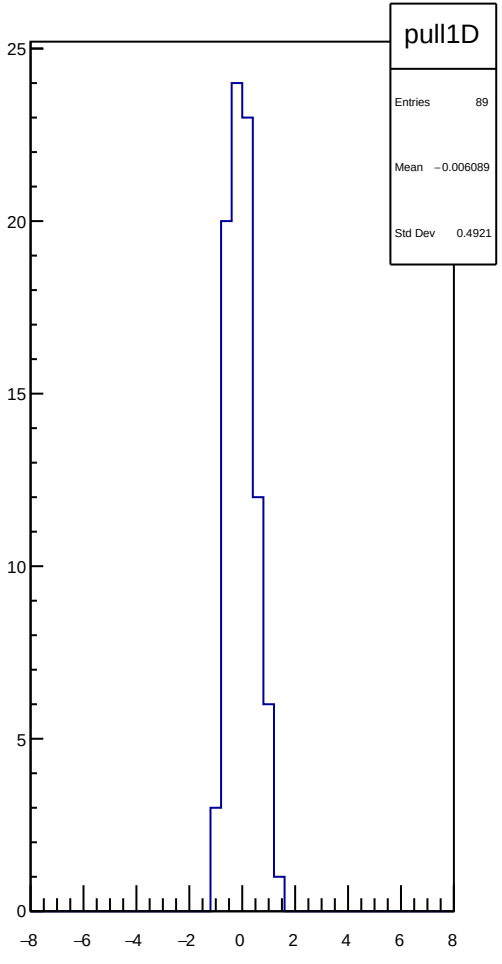

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 18.93 / 88
p0 −3.739 ± 7.527
pull
Entries 89
Mean −2370
Std Dev 0

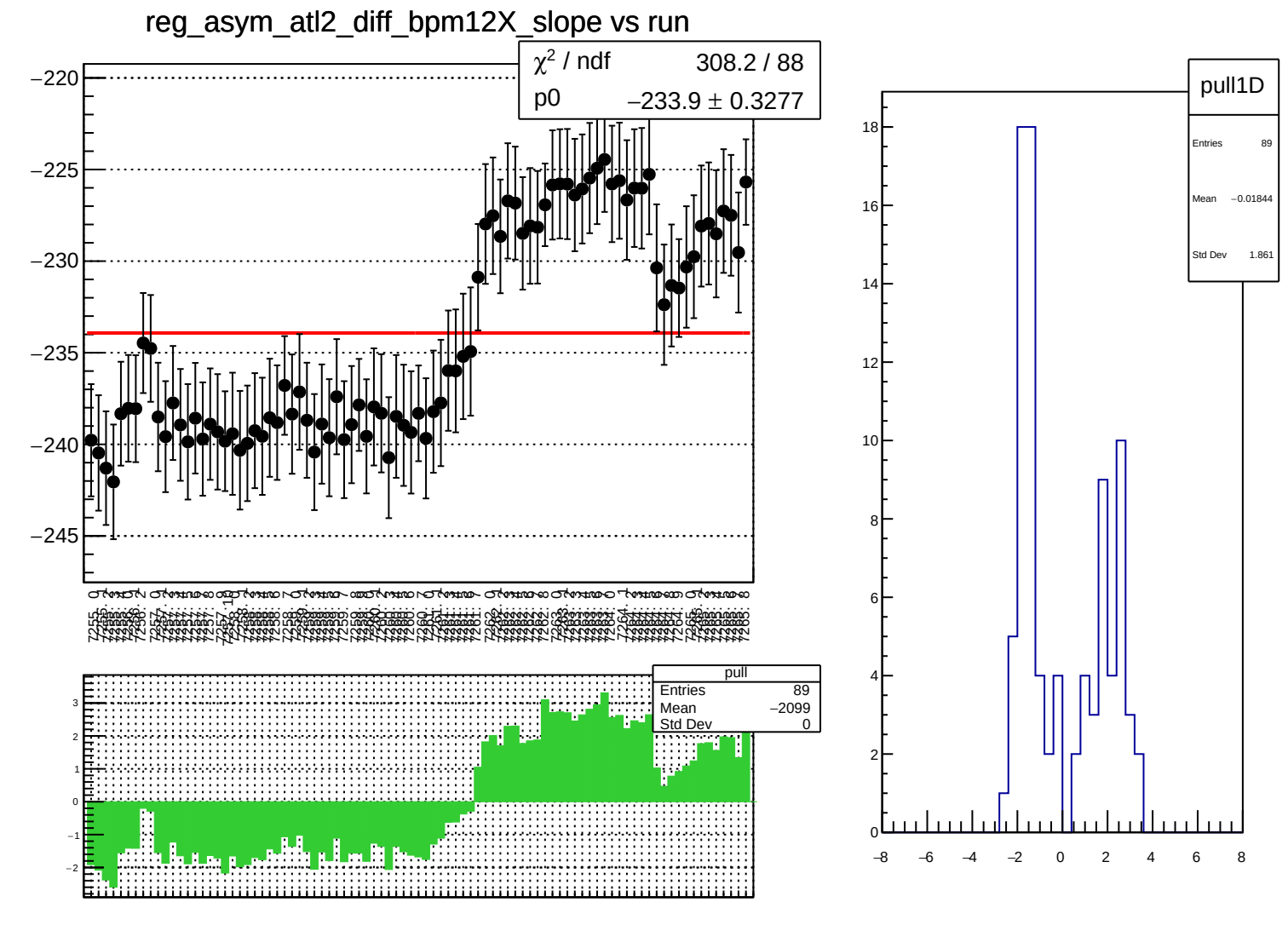

pull1D
Entries 89
Mean 0.002886
Std Dev 0.4612

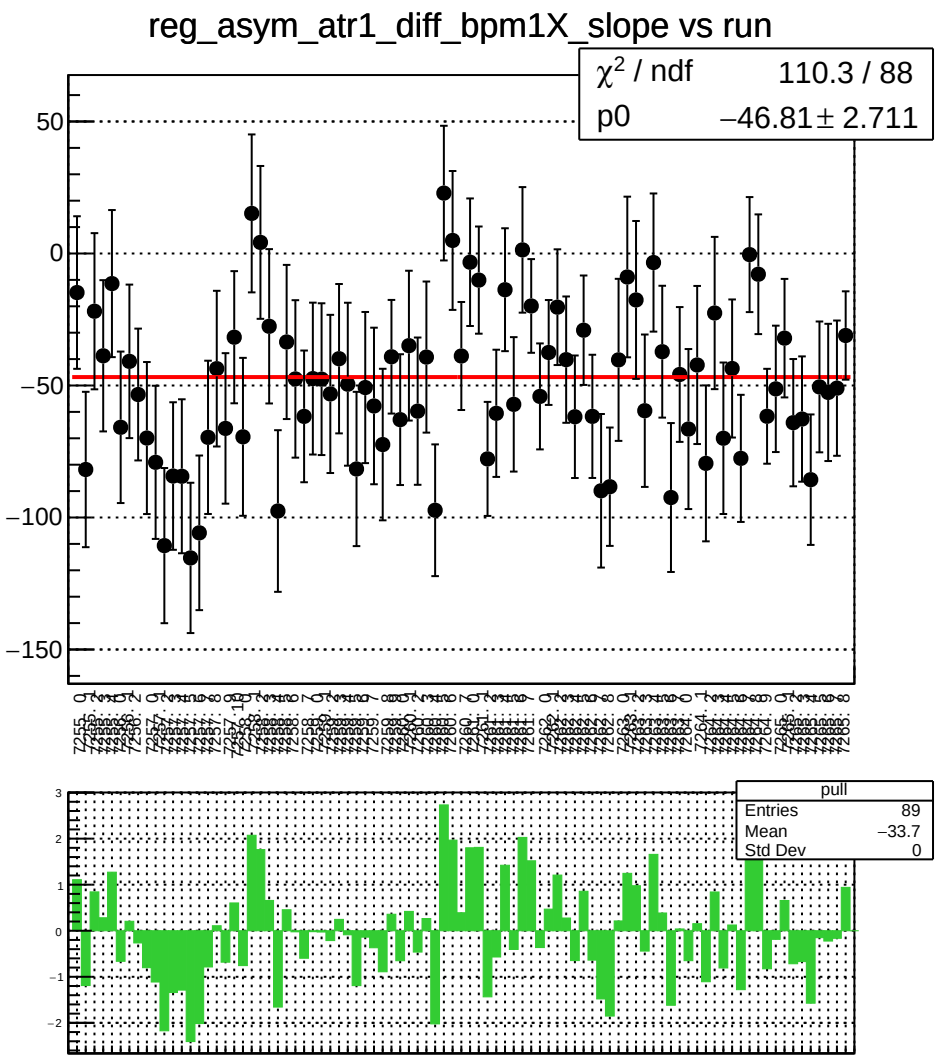

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 52.43 / 88
p0 353.7 ± 9.323
pull
Entries 89
Mean −131.4
Std Dev 0

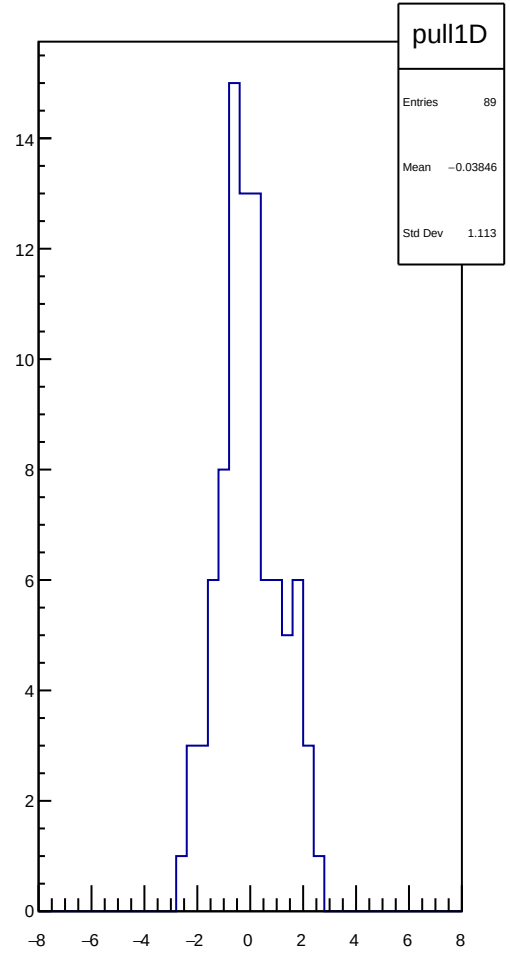

pull1D
Entries 89
Mean 0.07488
Std Dev 0.7639

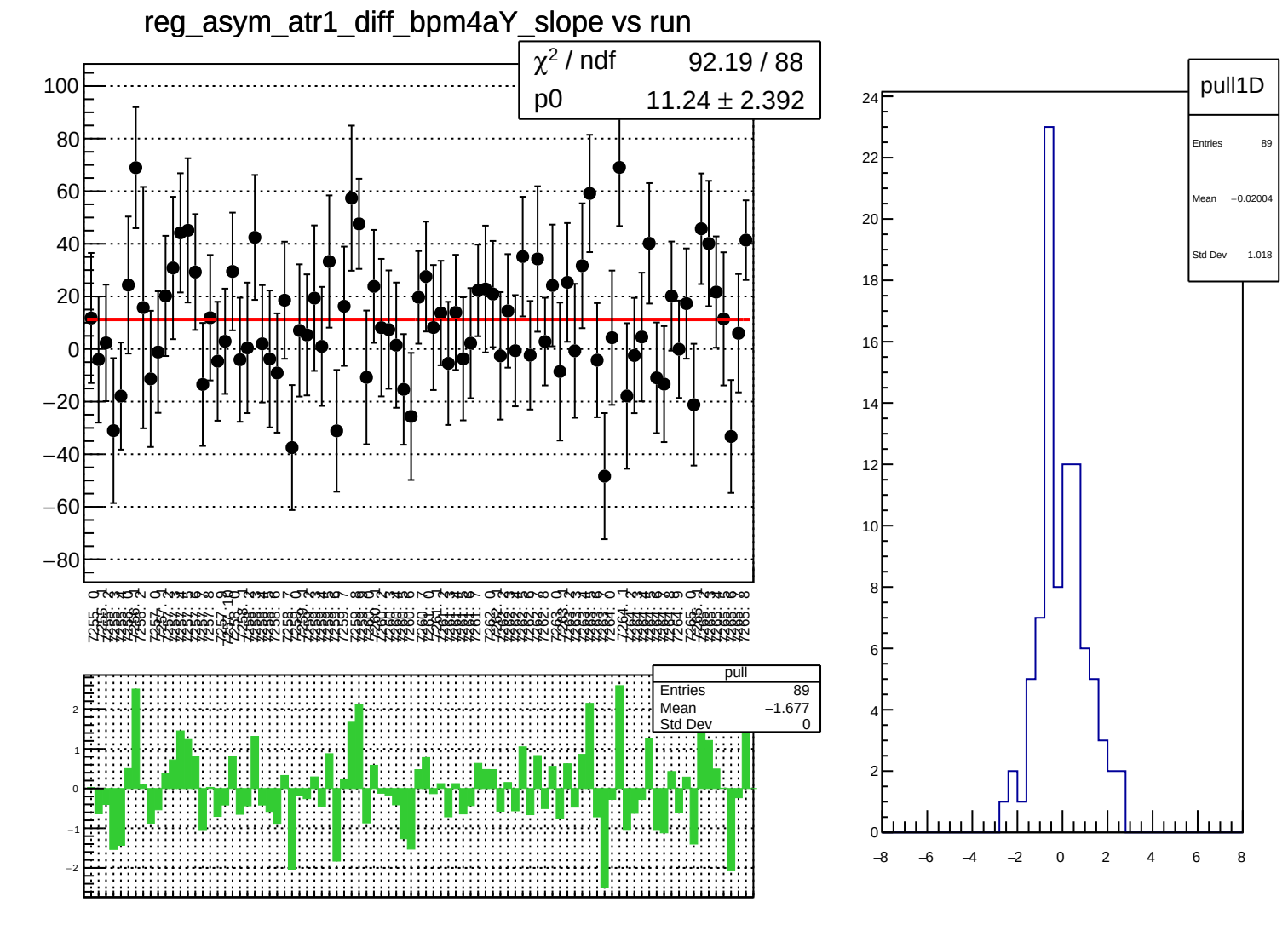

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 21.56 / 88
p0 131.7 ± 7.914
pull
Entries 89
Mean −1111
Std Dev 0

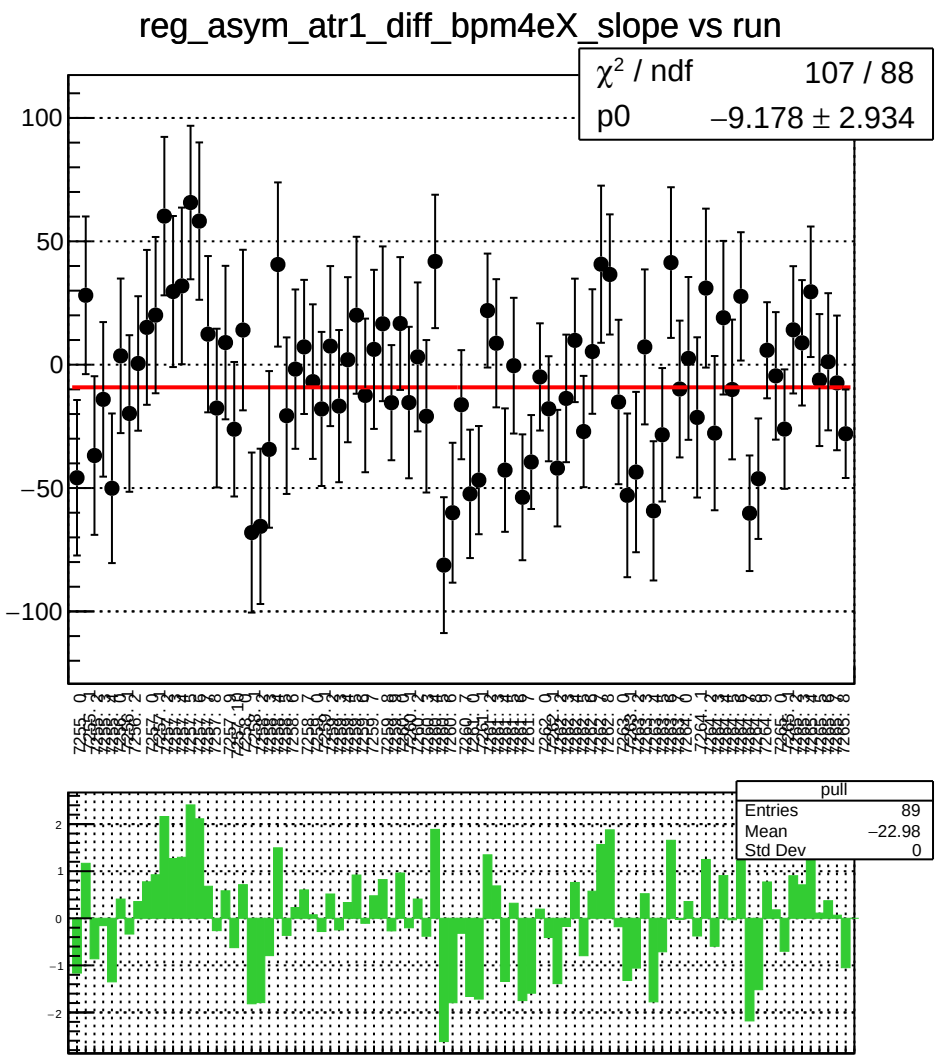

pull1D
Entries 89
Mean −0.006089
Std Dev 0.4921

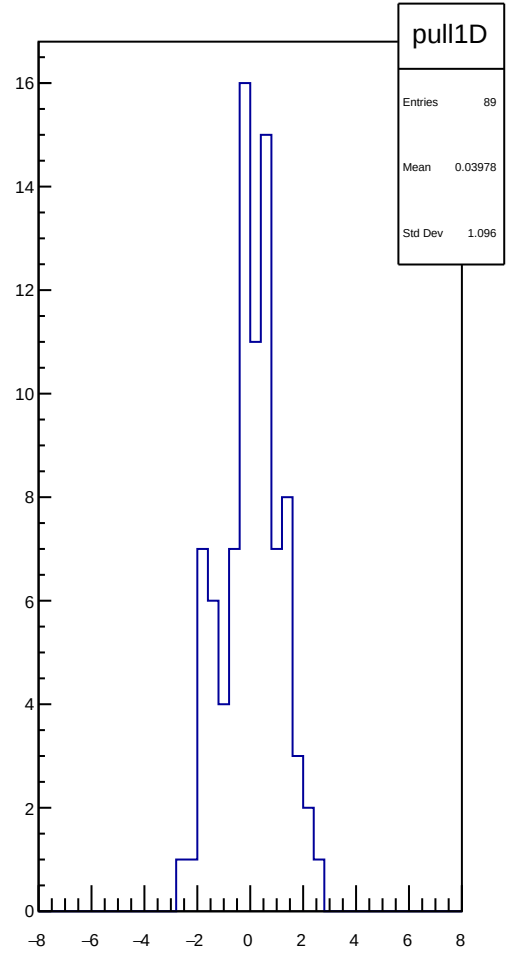

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 308.2 / 88
p0 −233.9 ± 0.3277
pull
Entries 89
Mean −2099
Std Dev 0
pull1D
Entries 89
Mean −0.01844
Std Dev 1.861

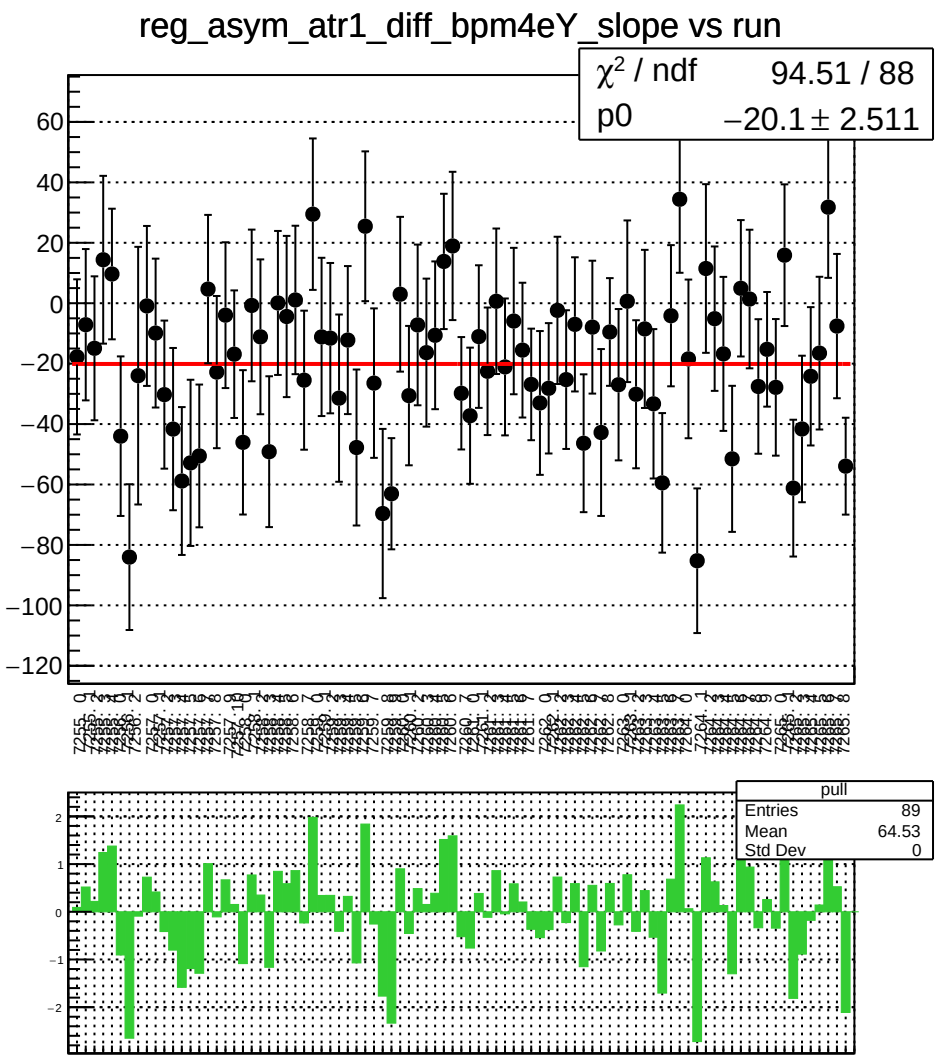

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 110.3 / 88
p0 −46.81 ± 2.711
50
0
−50
−100
−150
pull
Entries 89
Mean −33.7
Std Dev 0
3
2
1
0
−1
−2

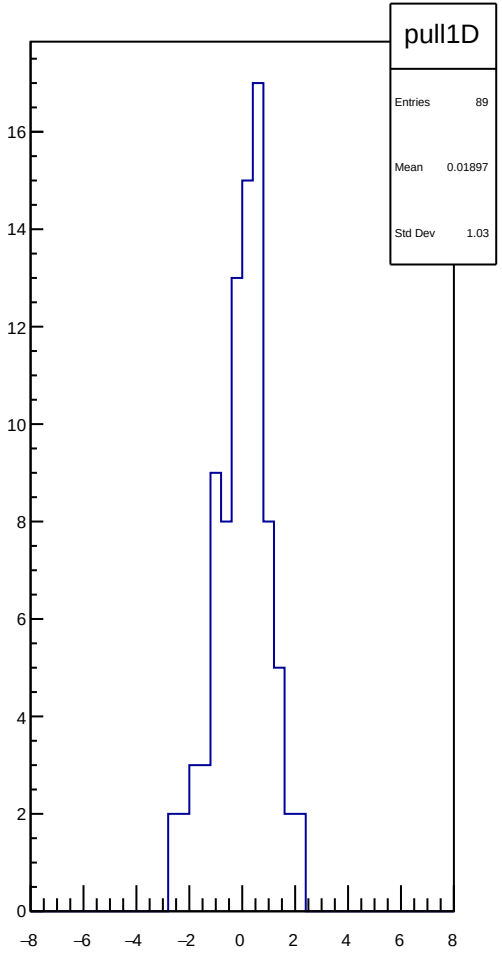

pull1D
Entries 89
Mean −0.03846
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

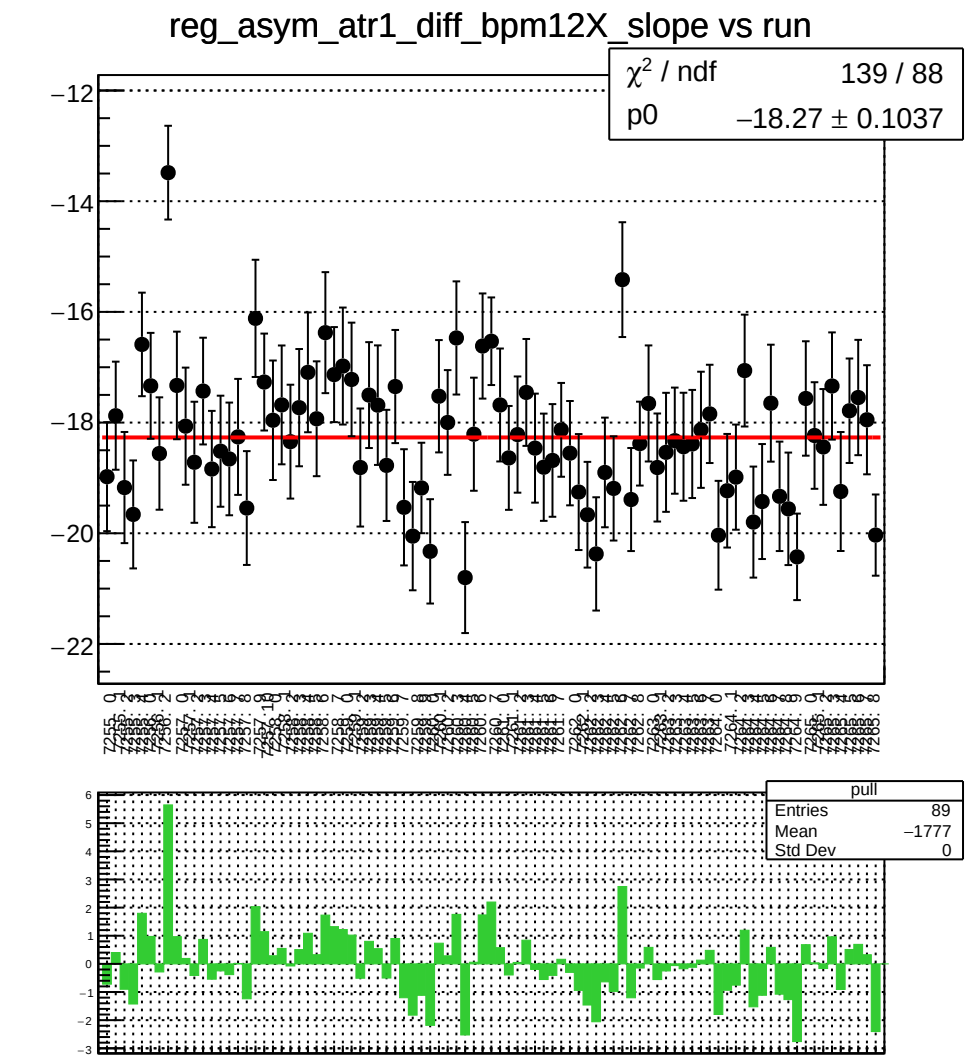

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 92.19 / 88
p0 11.24 ± 2.392
pull
Entries 89
Mean −1.677
Std Dev 0
pull1D
Entries 89
Mean −0.02004
Std Dev 1.018

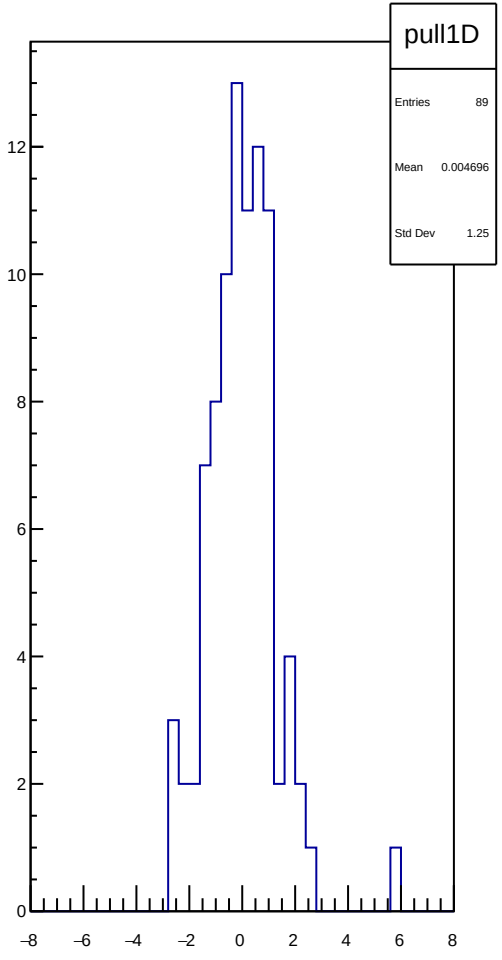

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 107 / 88
p0 −9.178 ± 2.934
pull
Entries 89
Mean −22.98
Std Dev 0

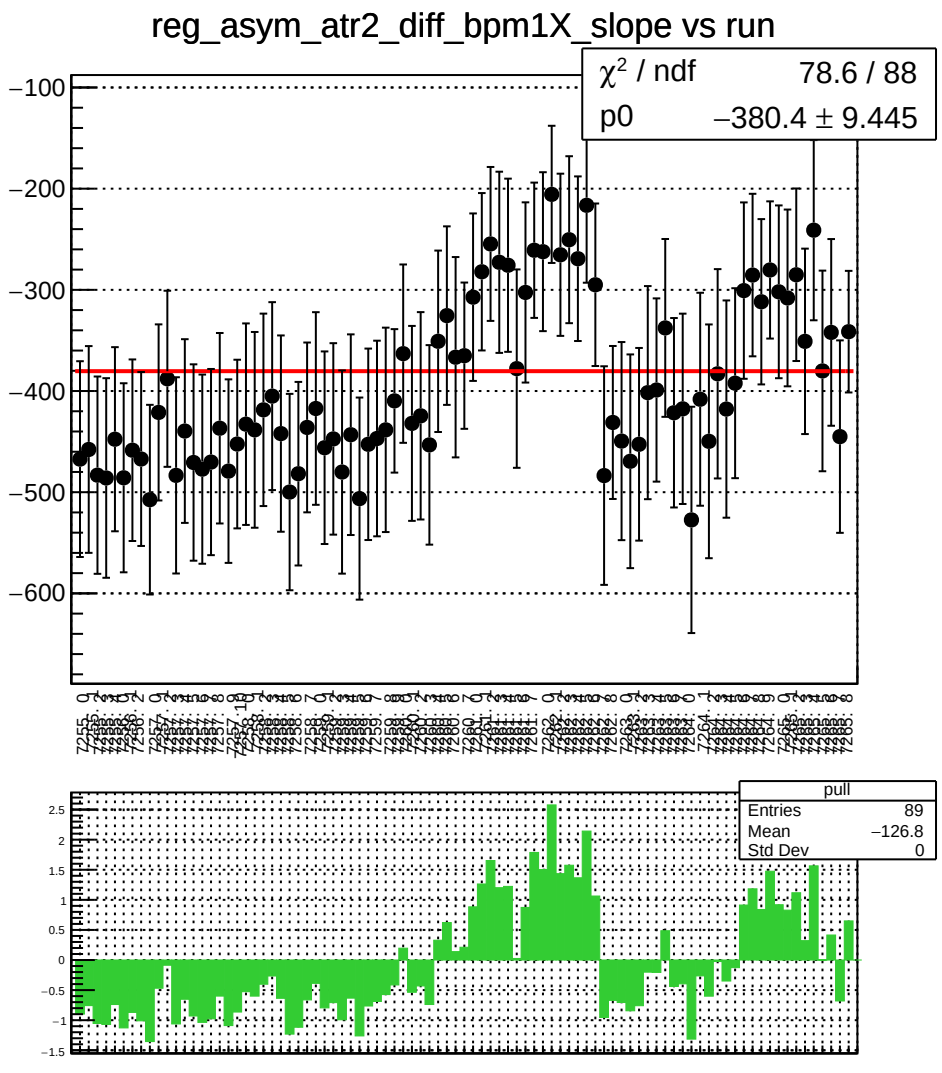

pull1D
Entries 89
Mean 0.03978
Std Dev 1.096

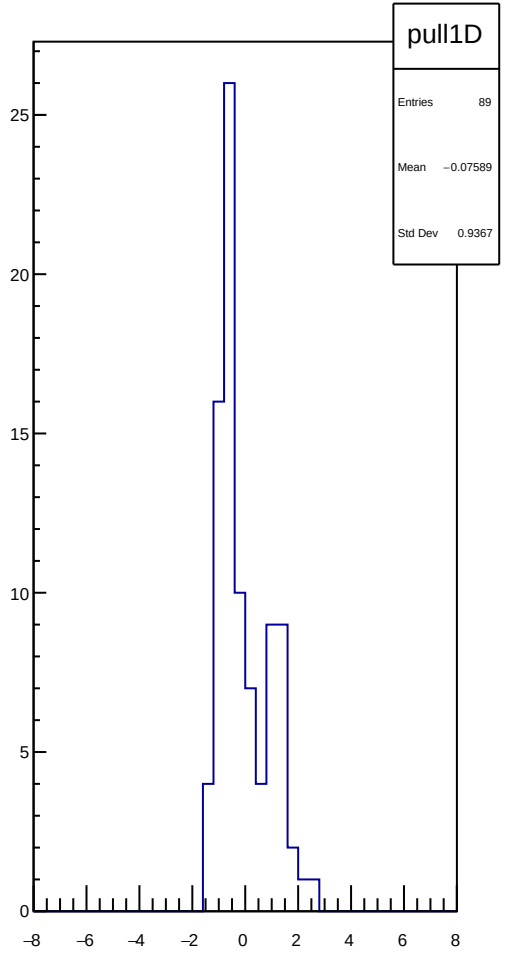

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 94.51 / 88
p0 −20.1 ± 2.511
pull
Entries 89
Mean 64.53
Std Dev 0

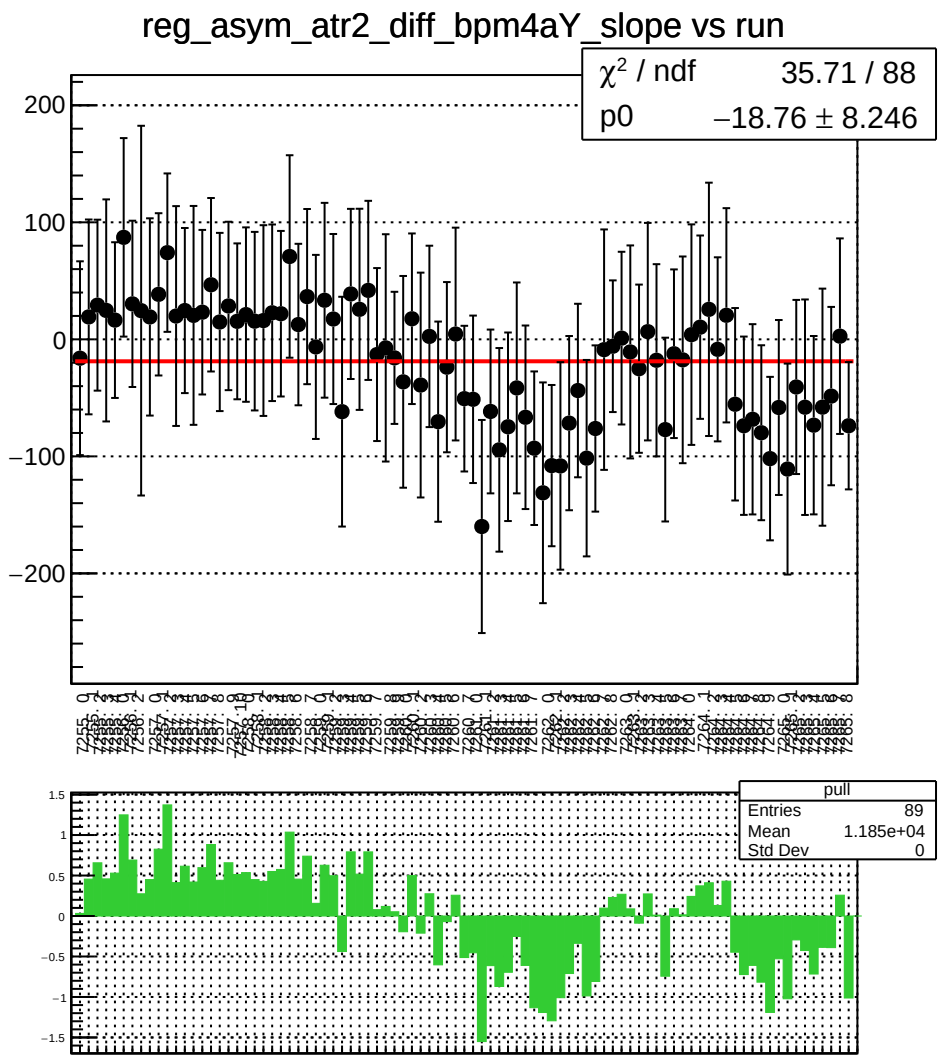

pull1D
Entries 89
Mean 0.01897
Std Dev 1.03

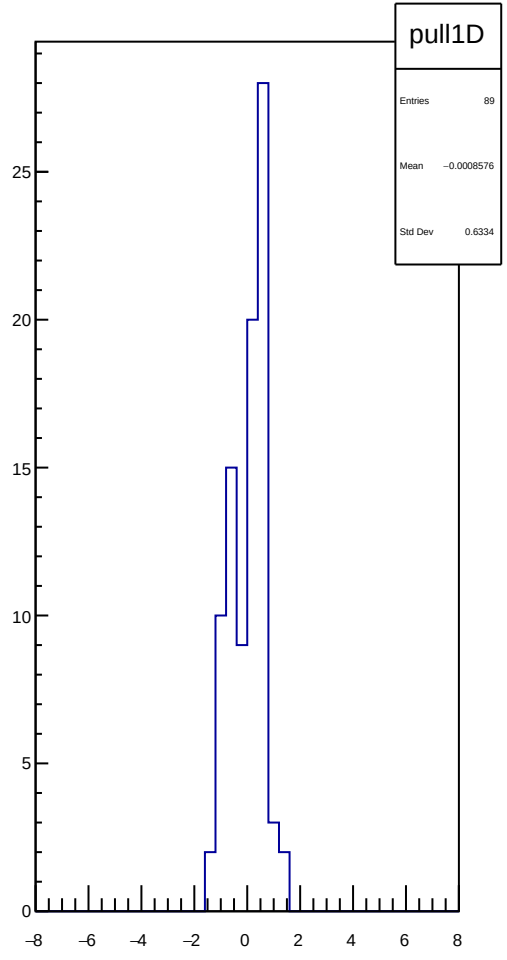

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 139 / 88
p0 −18.27 ± 0.1037
pull
Entries 89
Mean −1777
Std Dev 0

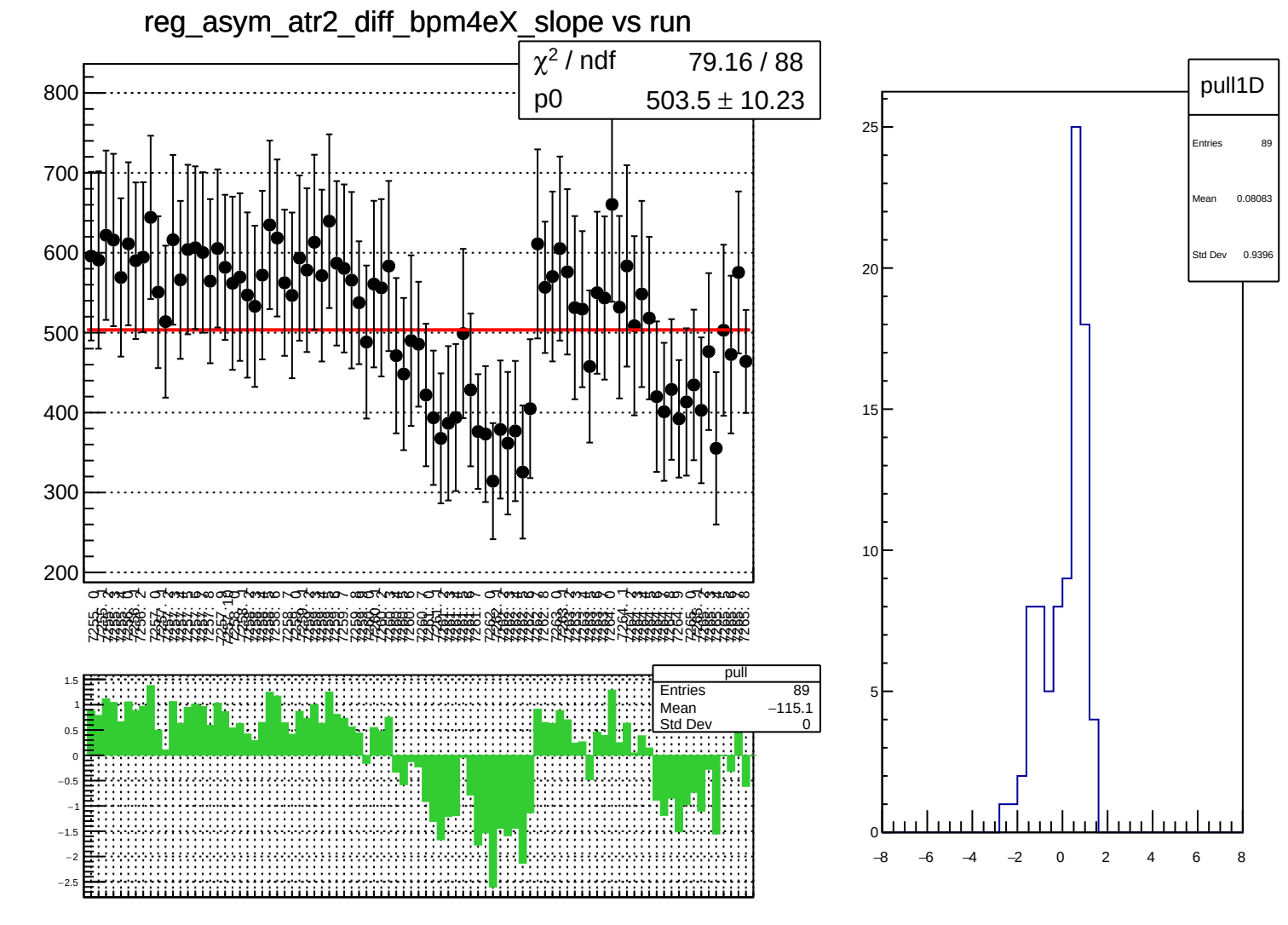

pull1D
Entries 89
Mean 0.004696
Std Dev 1.25

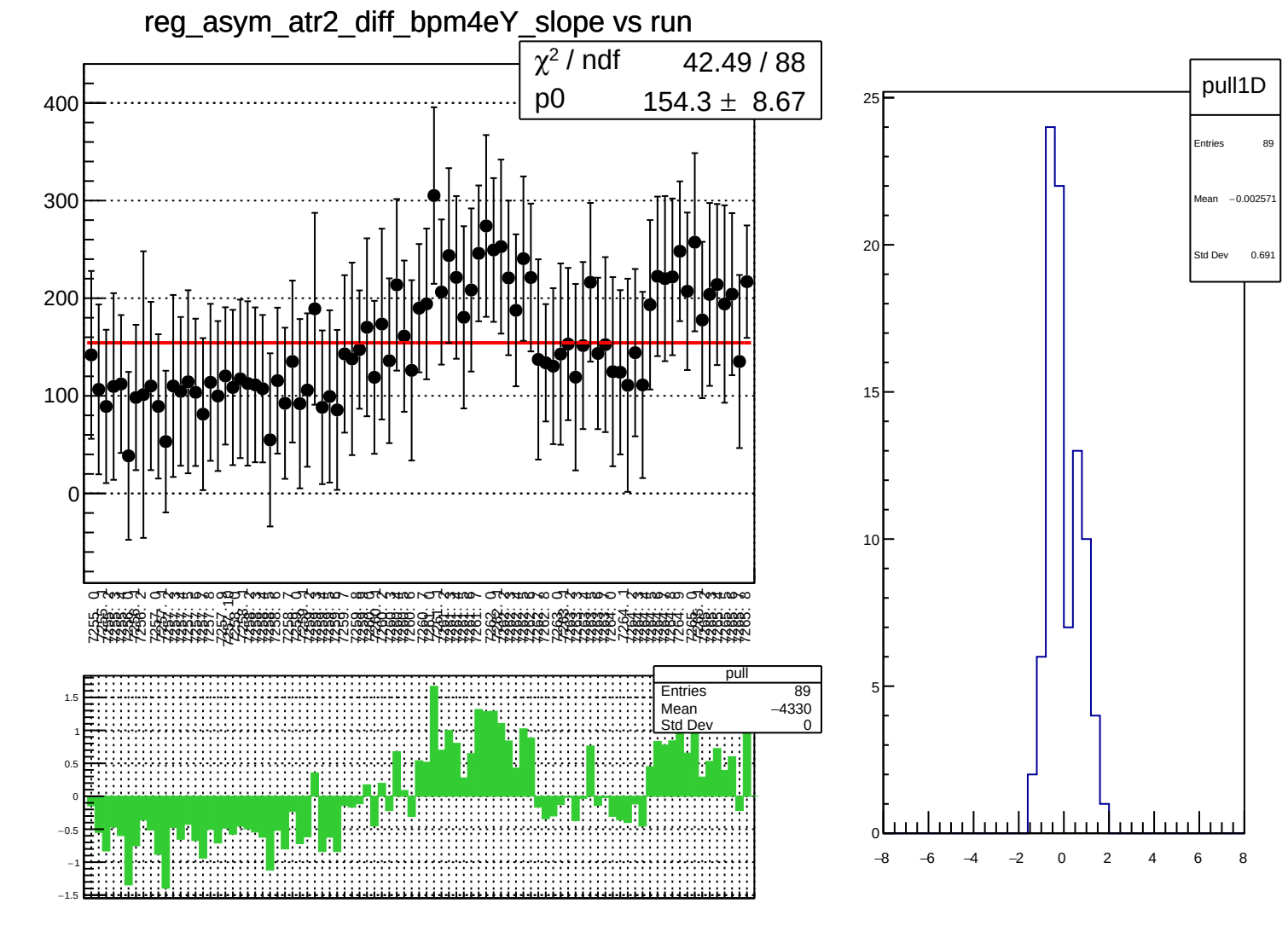

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 78.6 / 88
p0 −380.4 ± 9.445
pull
Entries 89
Mean −126.8
Std Dev 0

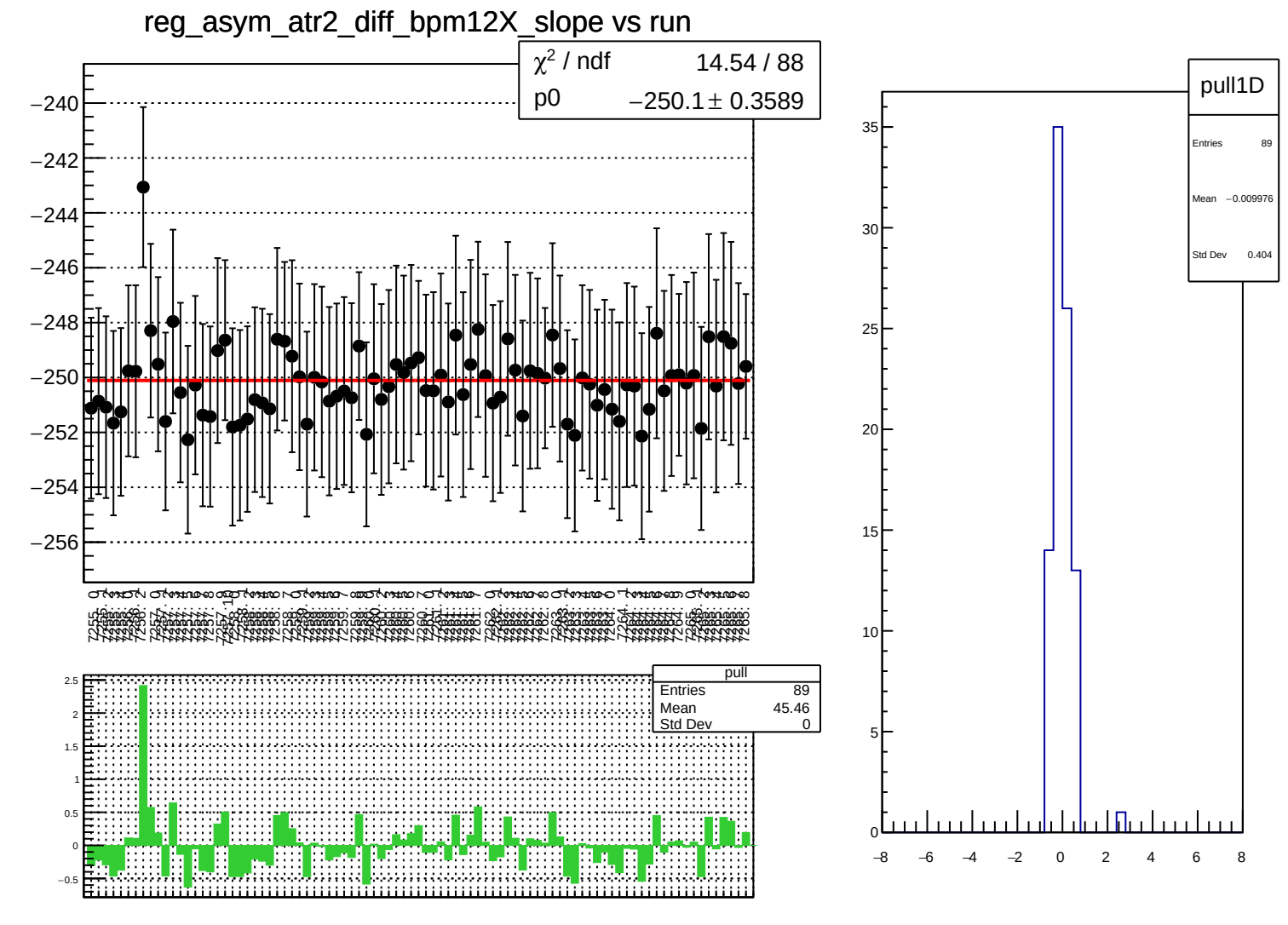

pull1D
Entries 89
Mean −0.07589
Std Dev 0.9367

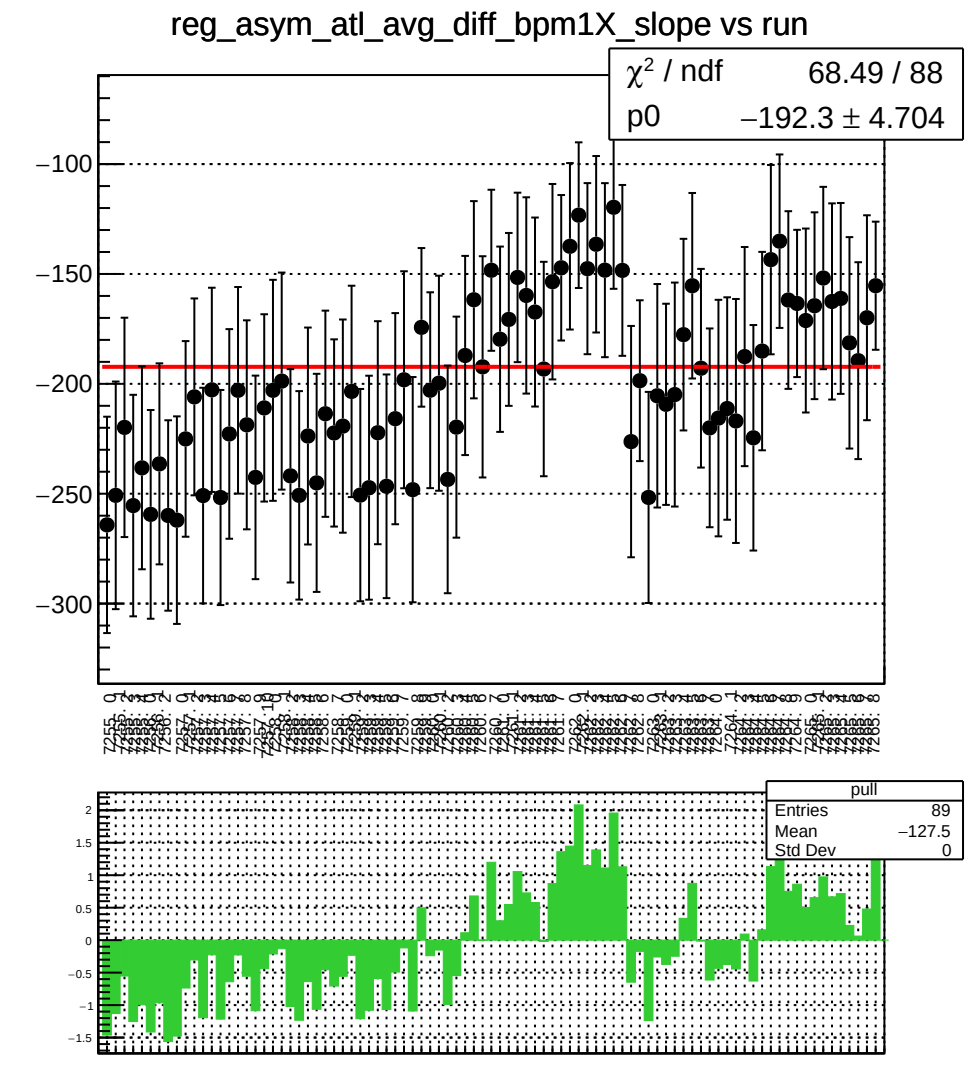

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 35.71 / 88
p0 −18.76 ± 8.246
200
100
0
−100
−200
pull
Entries 89
Mean 1.185e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

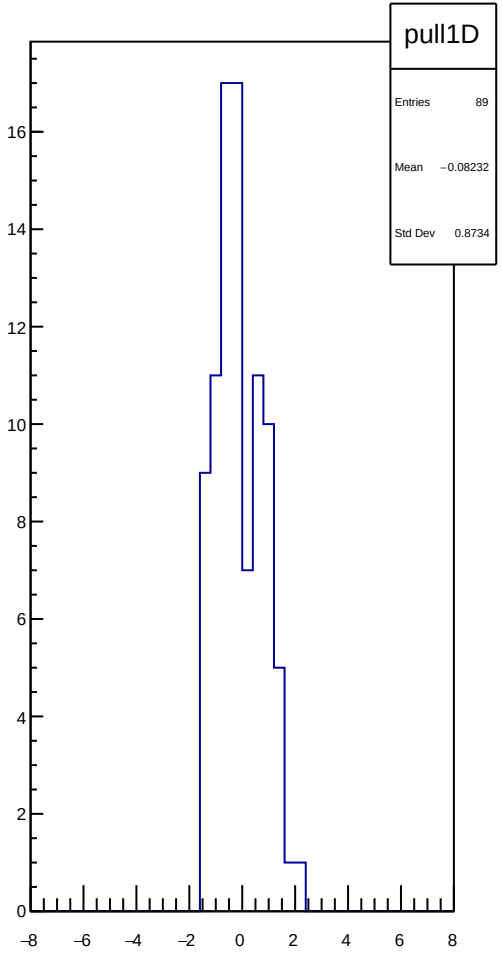

pull1D
Entries 89
Mean −0.0008576
Std Dev 0.6334
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

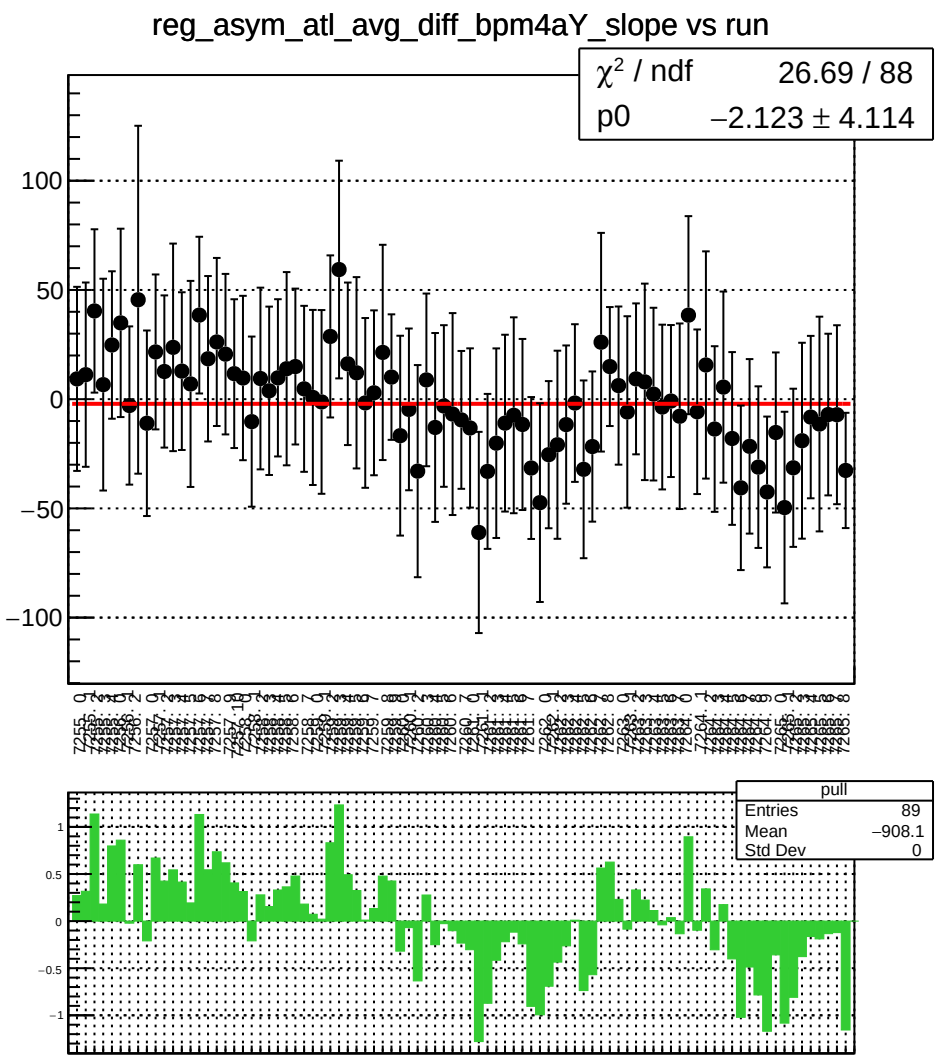

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 79.16 / 88
p0 503.5 ± 10.23
800
700
600
500
400
300
200
pull
Entries 89
Mean −115.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.08083
Std Dev 0.9396
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

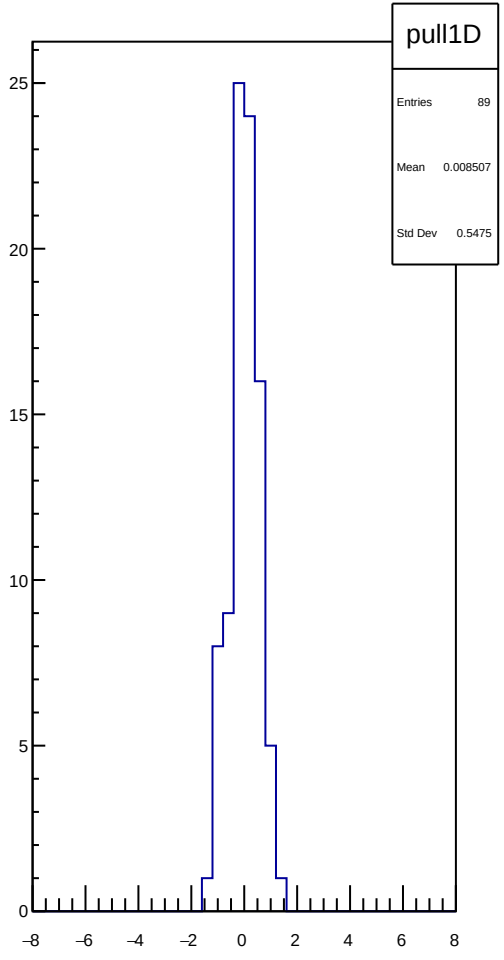

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 42.49 / 88
p0 154.3 ± 8.67
pull
Entries 89
Mean −4330
Std Dev 0
pull1D
Entries 89
Mean −0.002571
Std Dev 0.691

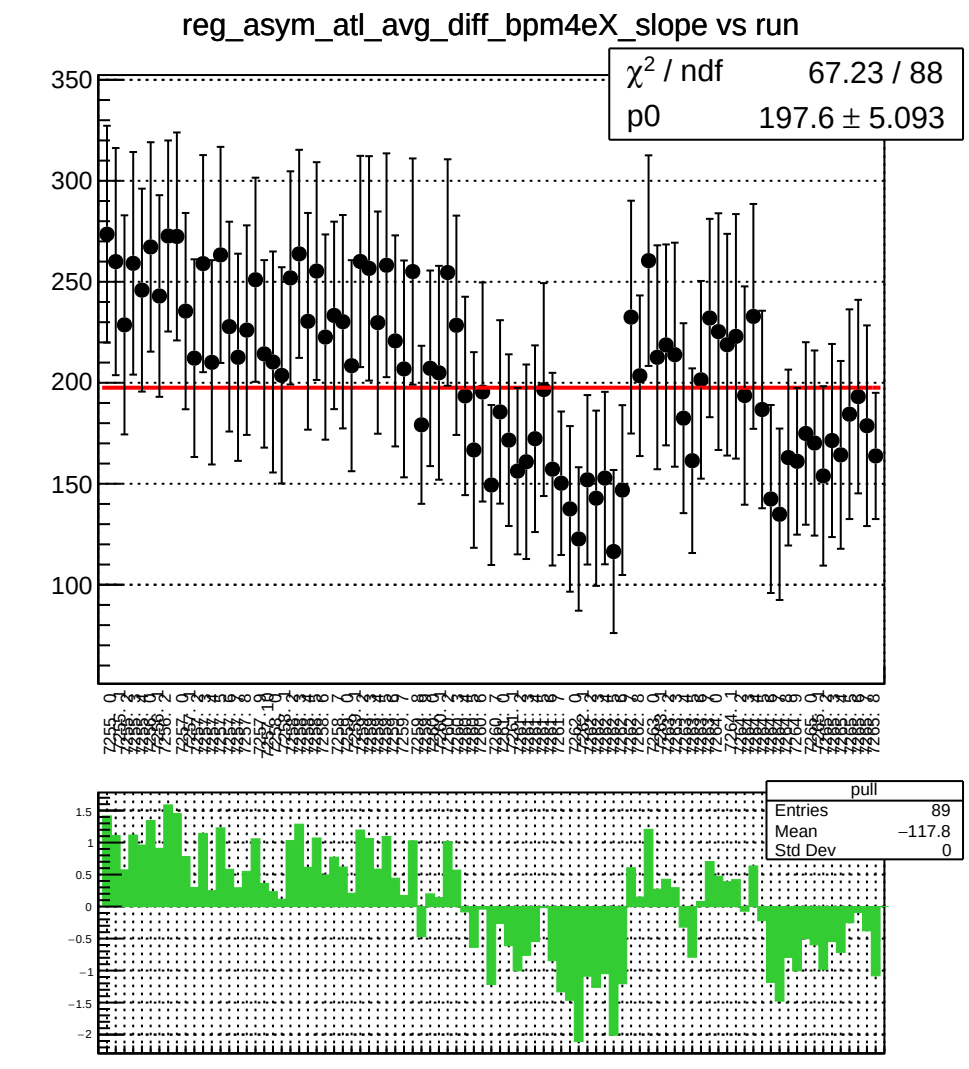

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 14.54 / 88
p0 −250.1 ± 0.3589
pull
Entries 89
Mean 45.46
Std Dev 0
pull1D
Entries 89
Mean −0.009976
Std Dev 0.404

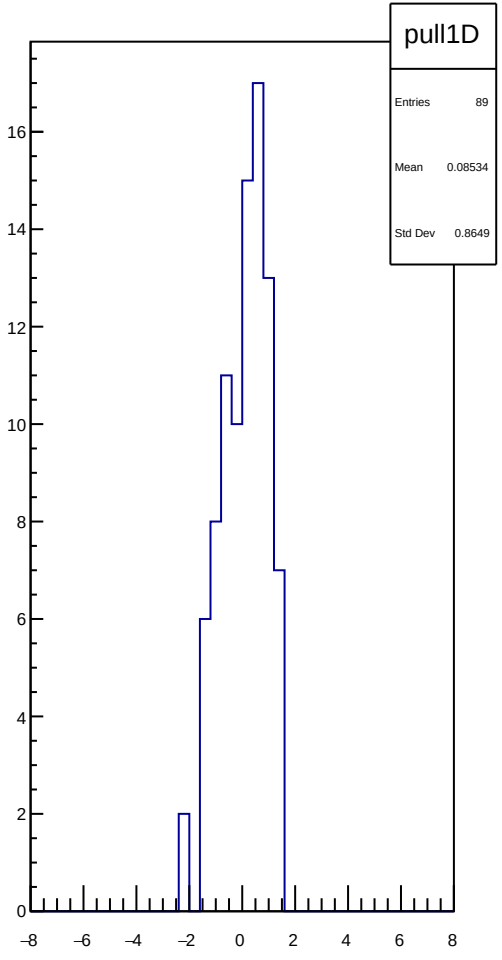

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 68.49 / 88
p0 −192.3 ± 4.704
pull
Entries 89
Mean −127.5
Std Dev 0

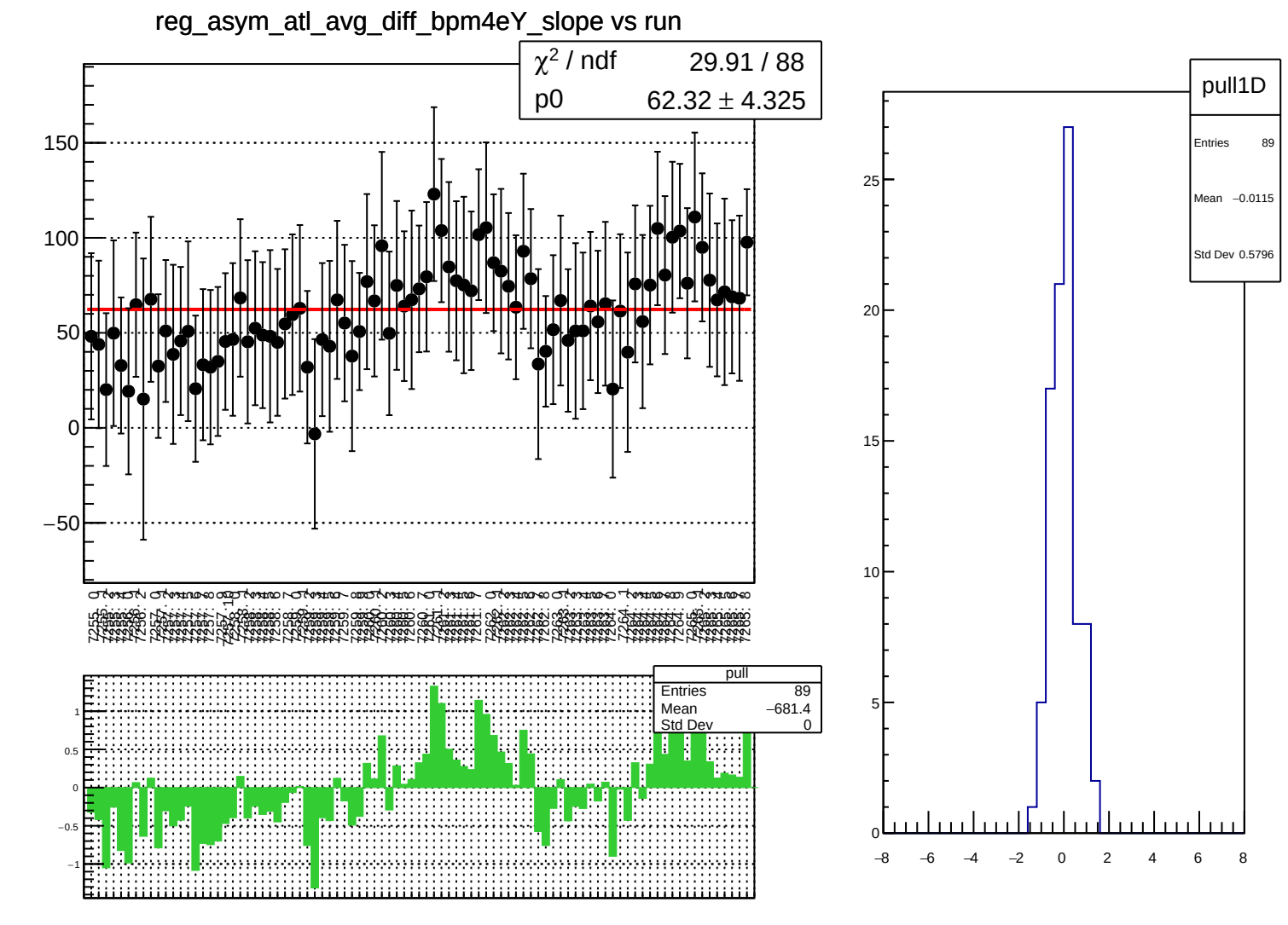

pull1D
Entries 89
Mean −0.08232
Std Dev 0.8734

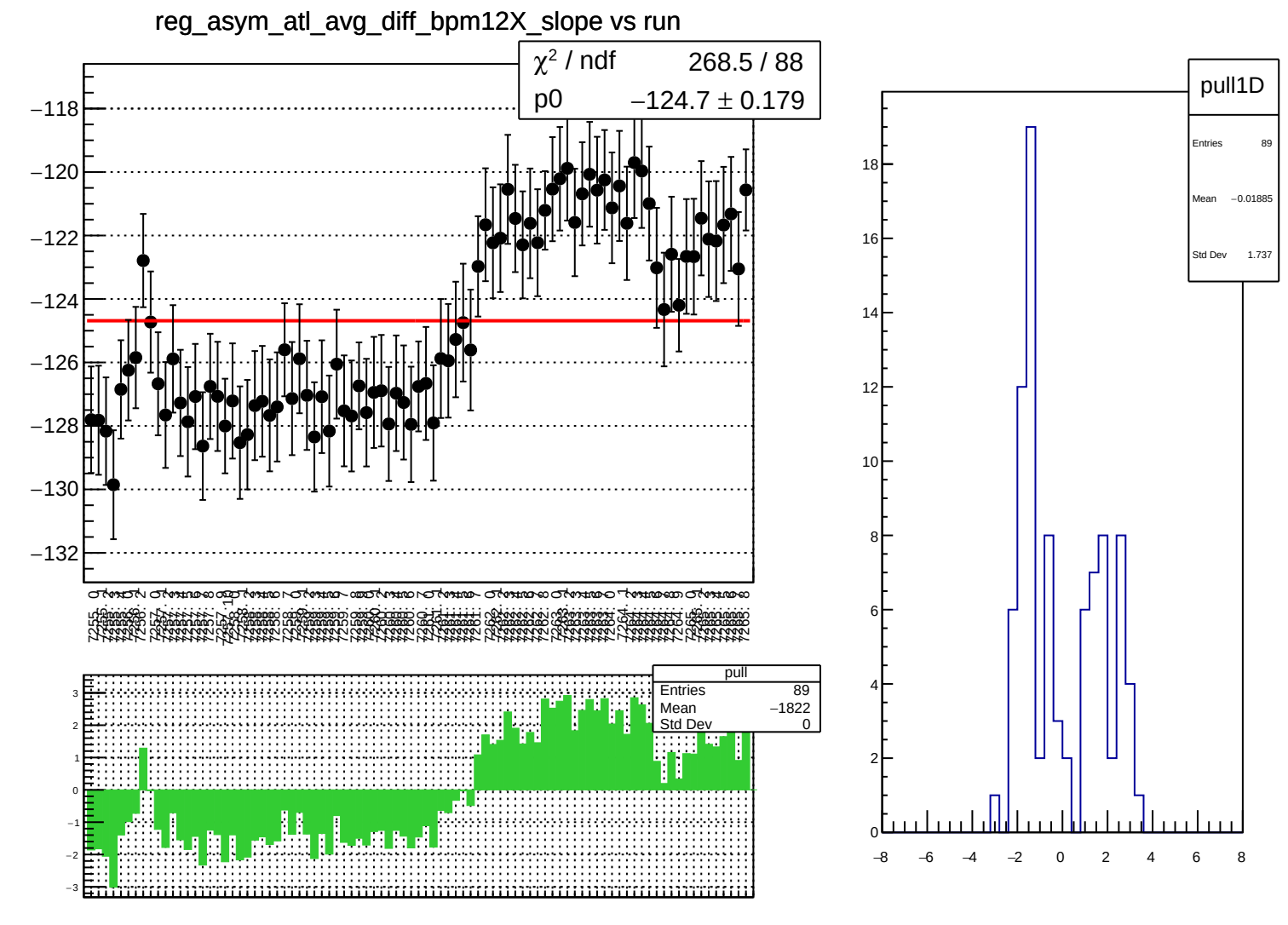

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.69 / 88
p0 −2.123 ± 4.114
100
50
0
−50
−100
pull
Entries 89
Mean −908.1
Std Dev 0
1
0.5
0
−0.5
−1

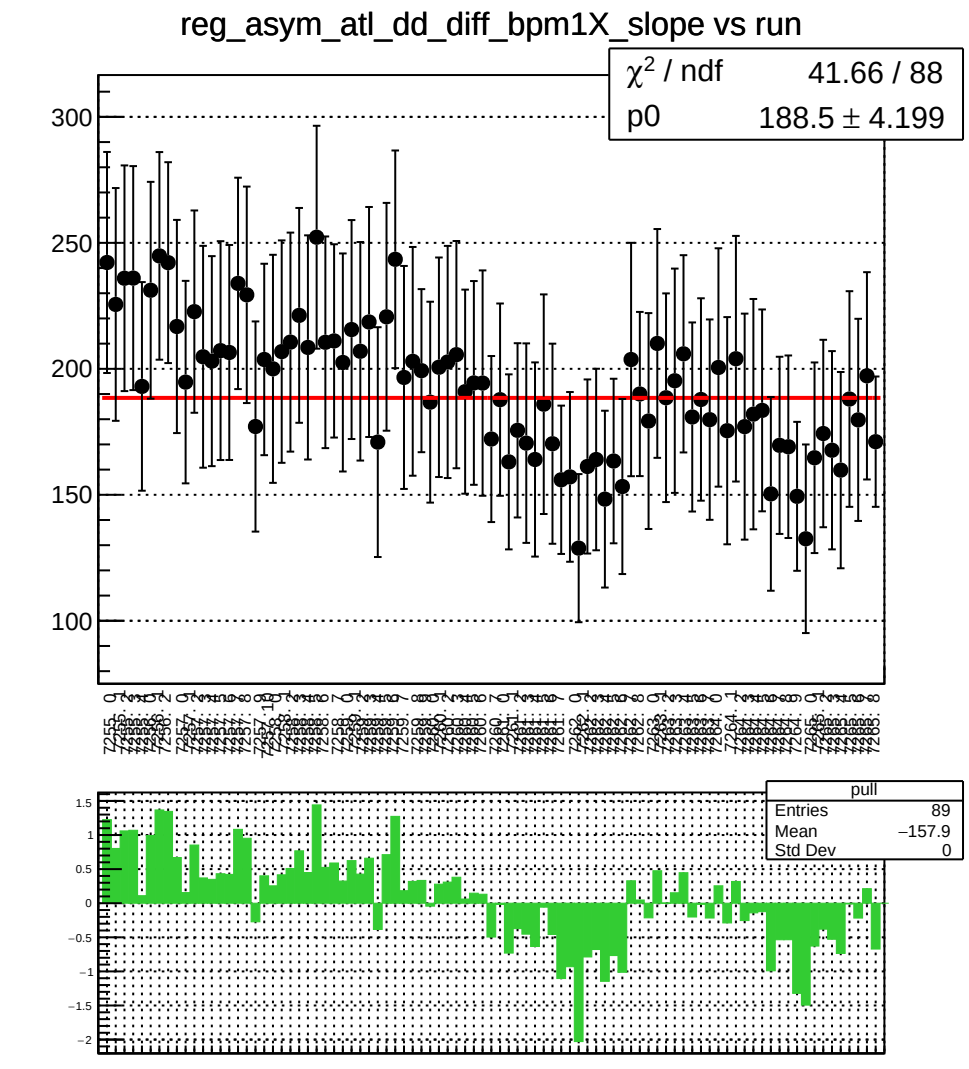

pull1D
Entries 89
Mean 0.008507
Std Dev 0.5475
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

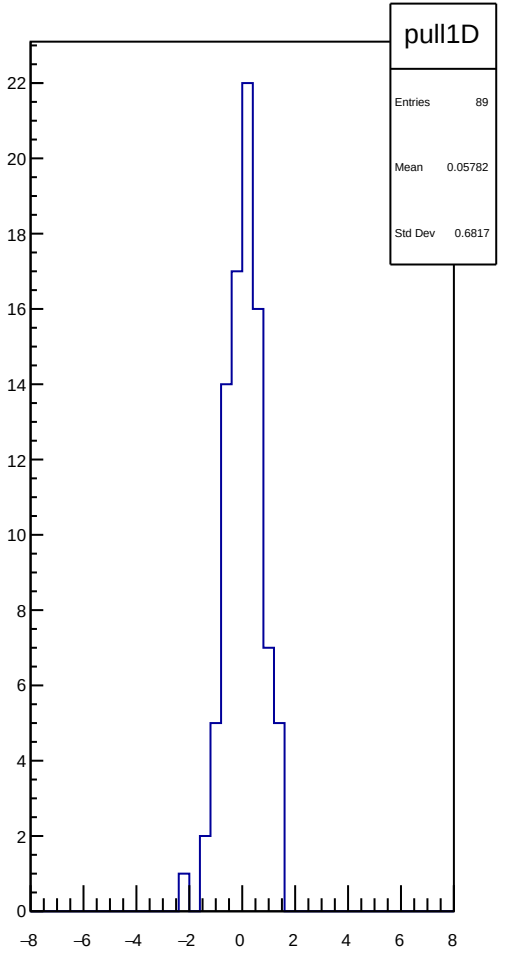

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 67.23 / 88
p0 197.6 ± 5.093
pull
Entries 89
Mean −117.8
Std Dev 0

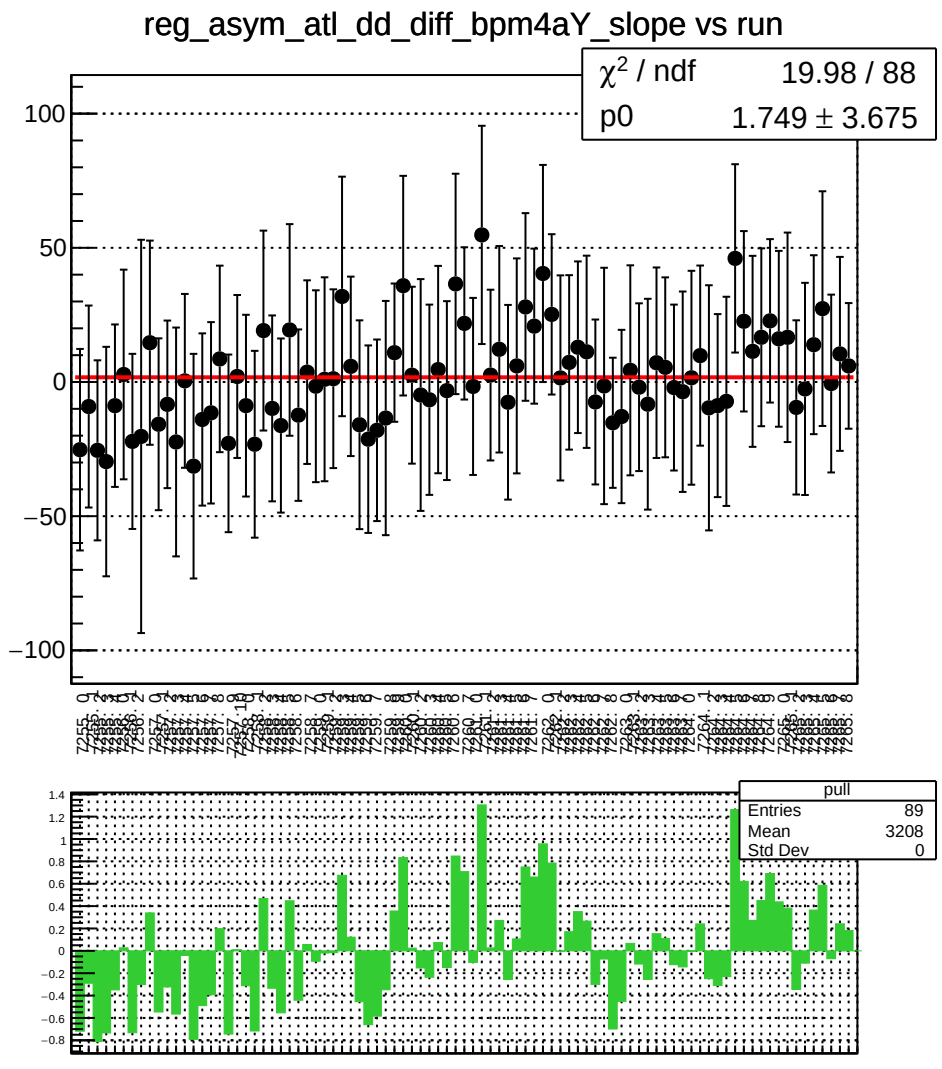

pull1D
Entries 89
Mean 0.08534
Std Dev 0.8649

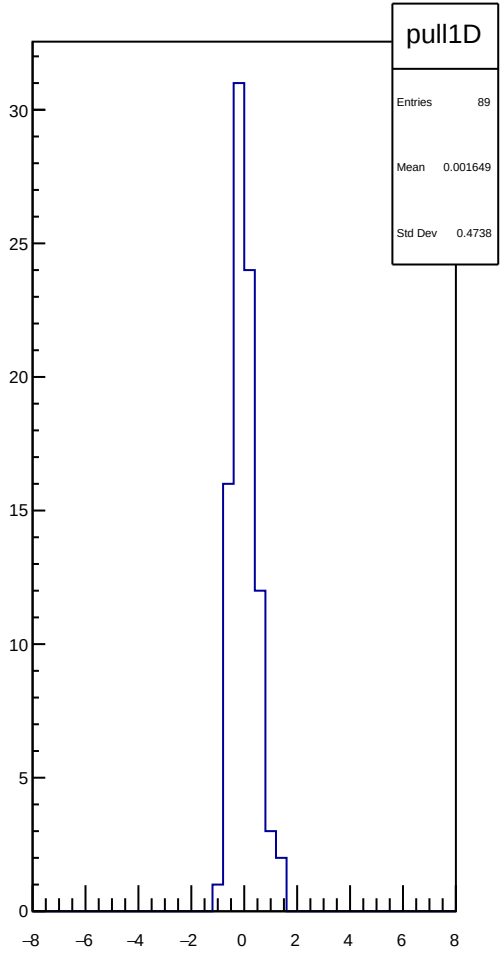

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.91 / 88
p0 62.32 ± 4.325
150
100
50
0
−50
pull
Entries 89
Mean −681.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.0115
Std Dev 0.5796
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

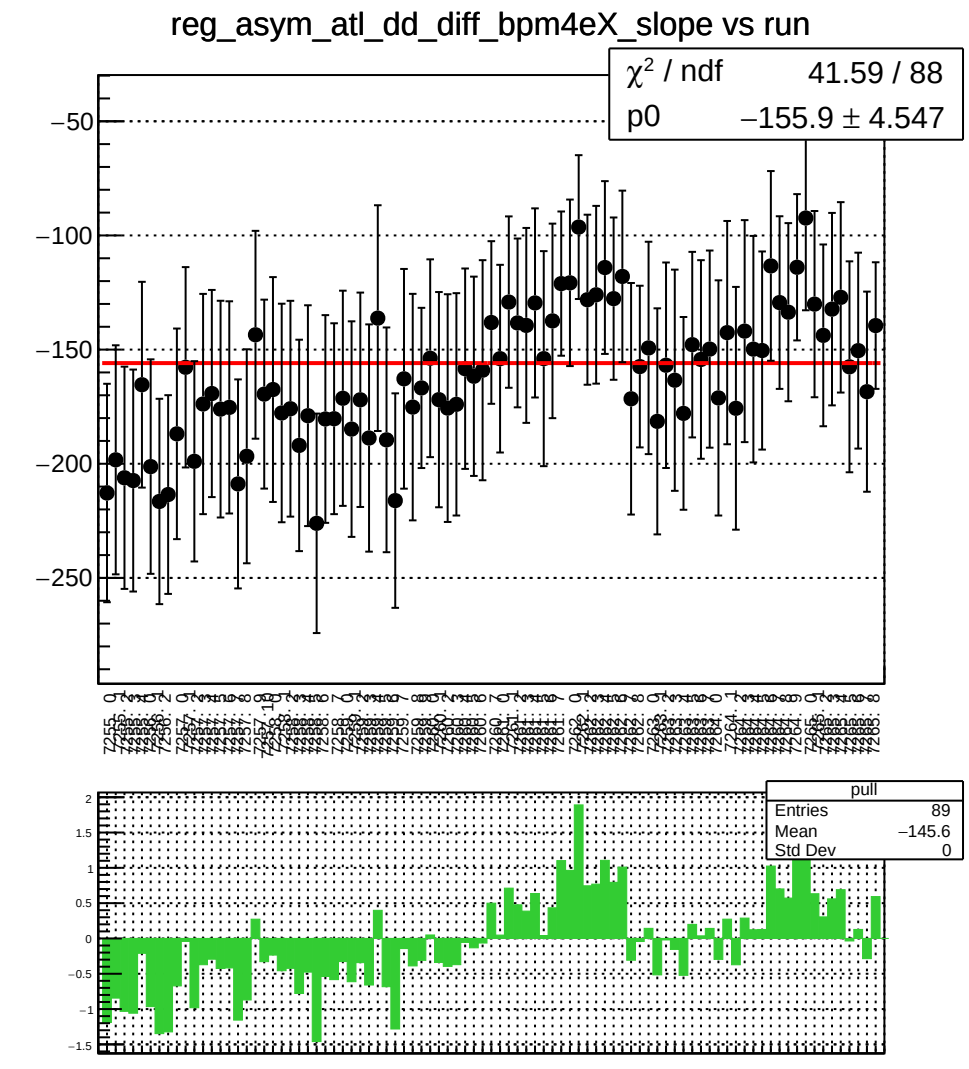

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 268.5 / 88
p0 −124.7 ± 0.179
pull
Entries 89
Mean −1822
Std Dev 0
pull1D
Entries 89
Mean −0.01885
Std Dev 1.737

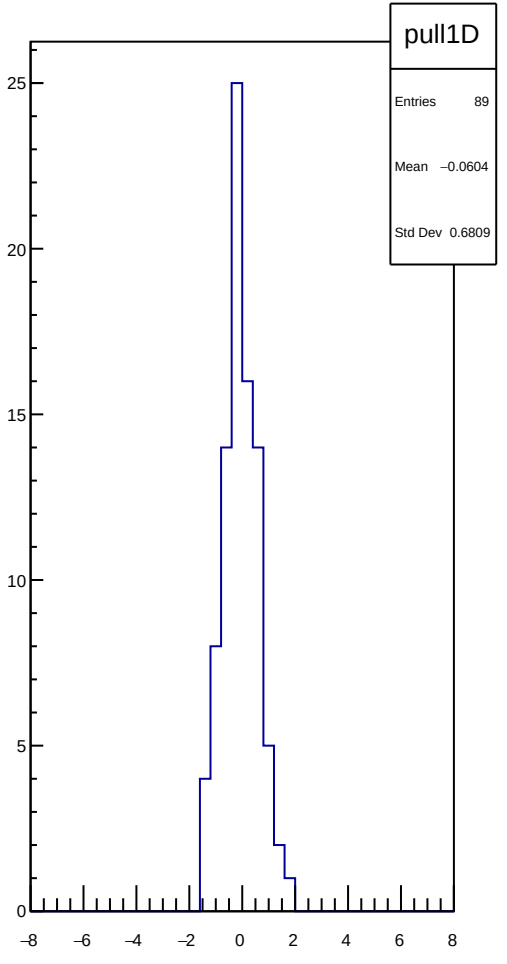

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 41.66 / 88
p0 188.5 ± 4.199
300
250
200
150
100
pull
Entries 89
Mean −157.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

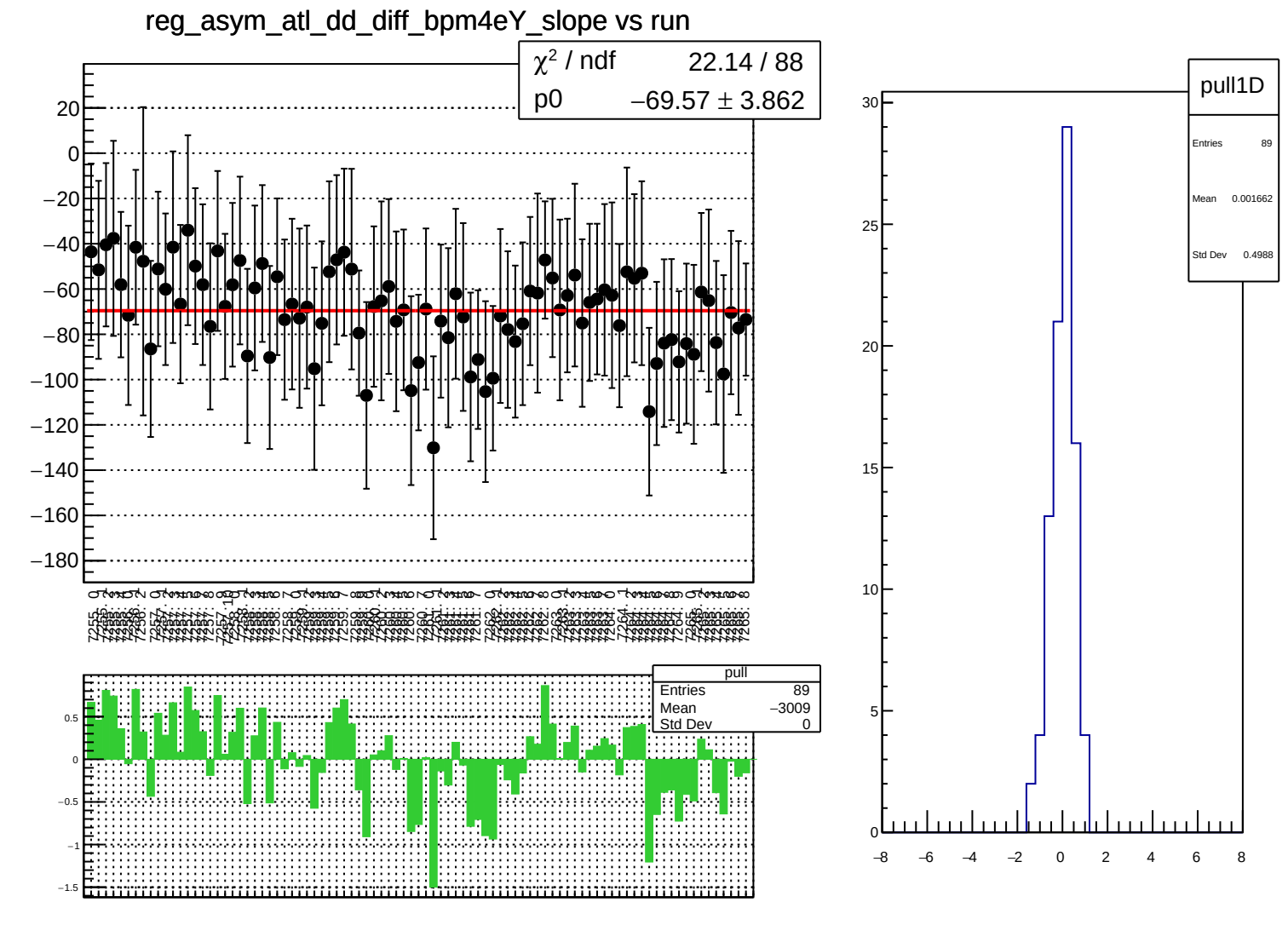

pull1D
Entries 89
Mean 0.05782
Std Dev 0.6817
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

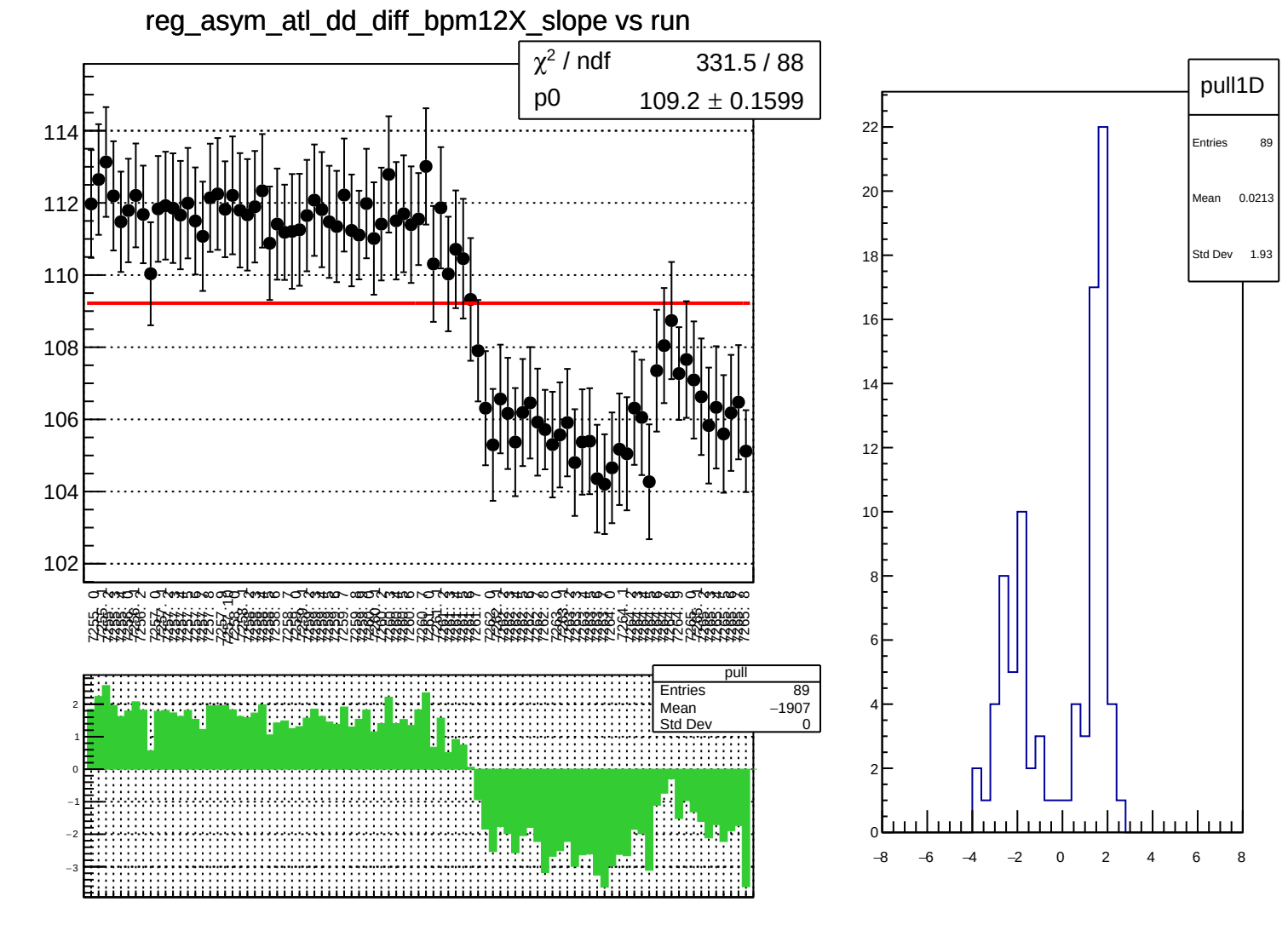

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.98 / 88
p0 1.749 ± 3.675
100
50
0
−50
−100
pull
Entries 89
Mean 3208
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

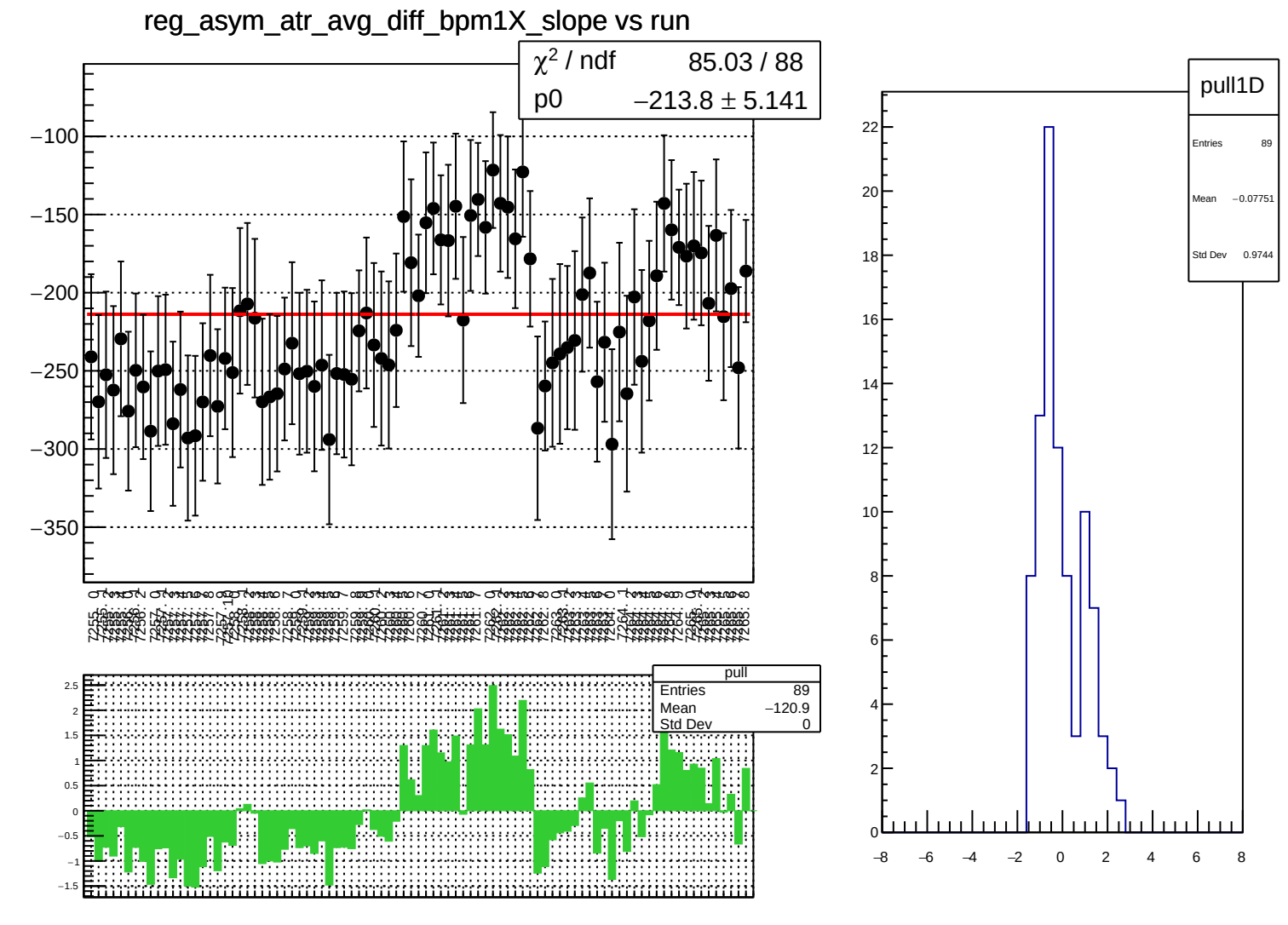

pull1D
Entries 89
Mean 0.001649
Std Dev 0.4738
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

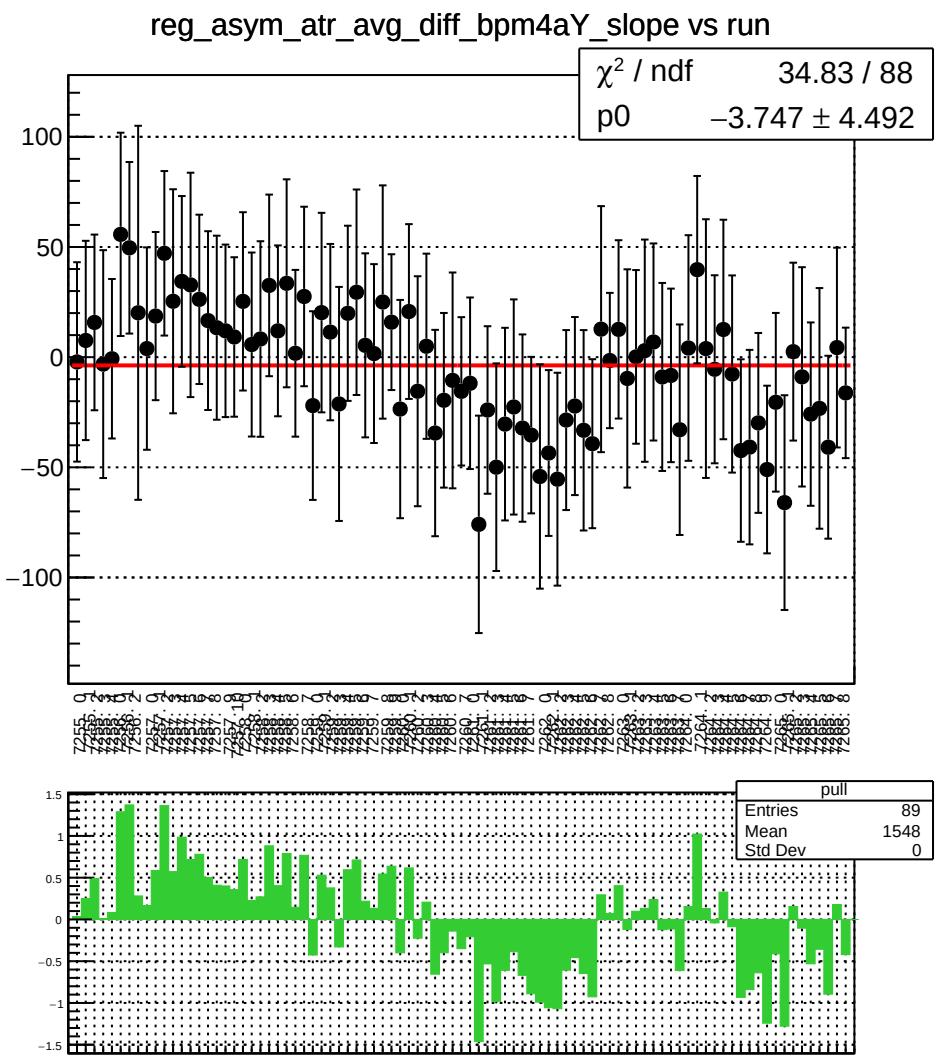

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.59 / 88
p0 −155.9 ± 4.547
−50
−100
−150
−200
−250
pull
Entries 89
Mean −145.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

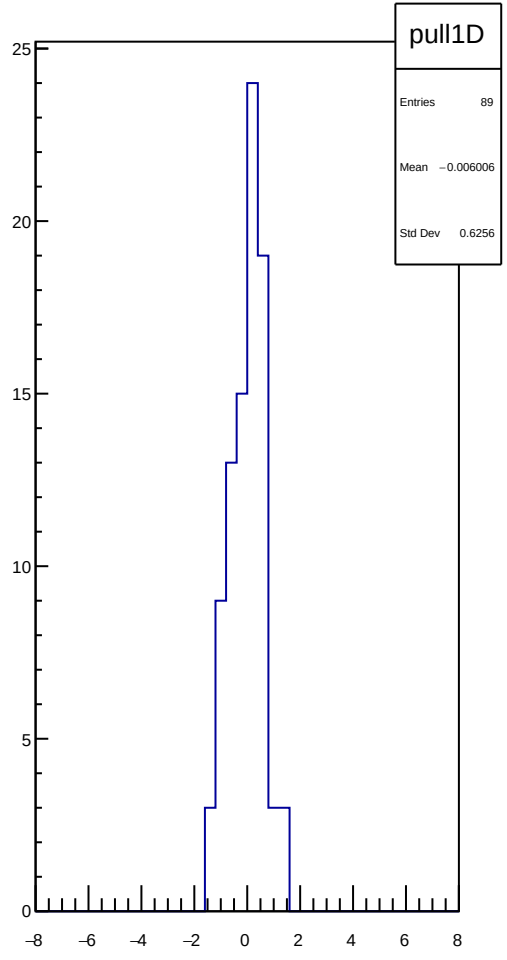

pull1D
Entries 89
Mean −0.0604
Std Dev 0.6809
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

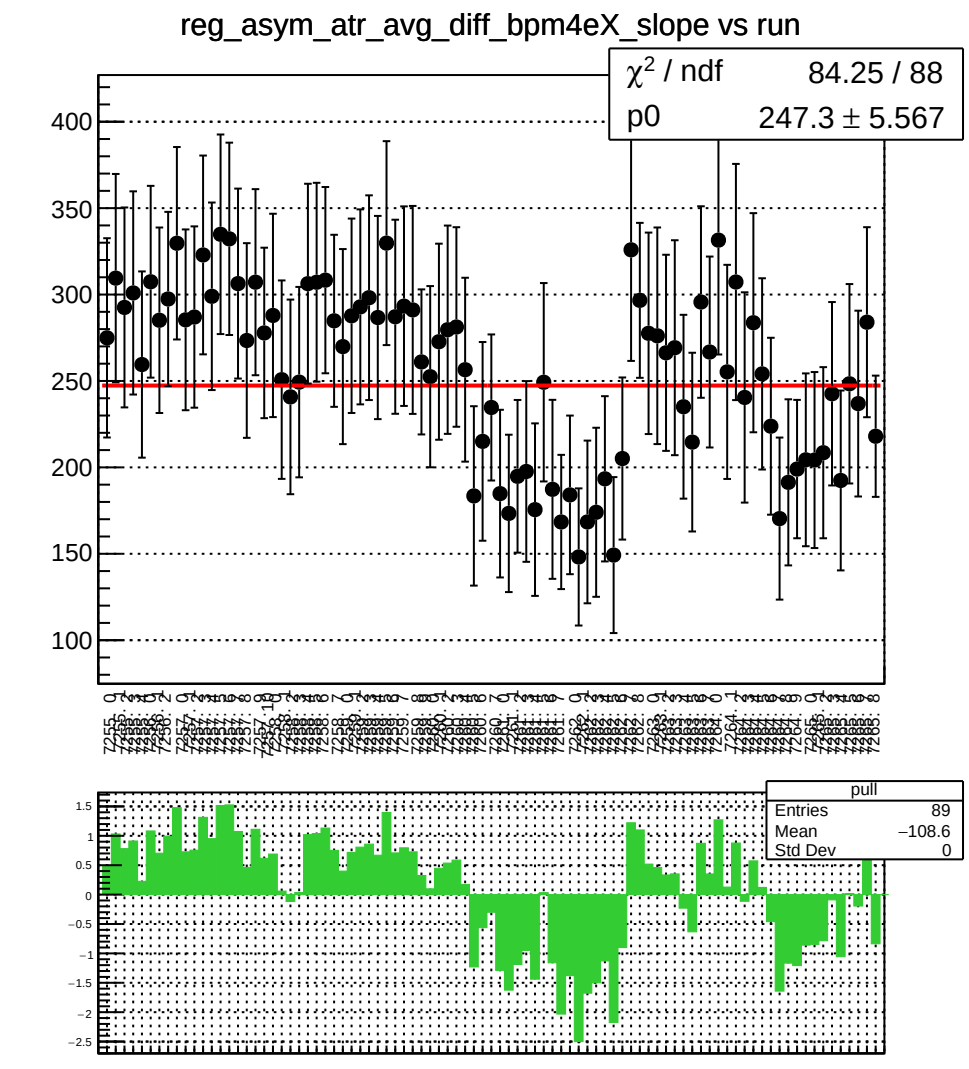

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.14 / 88
p0 −69.57 ± 3.862
pull
Entries 89
Mean −3009
Std Dev 0
pull1D
Entries 89
Mean 0.001662
Std Dev 0.4988

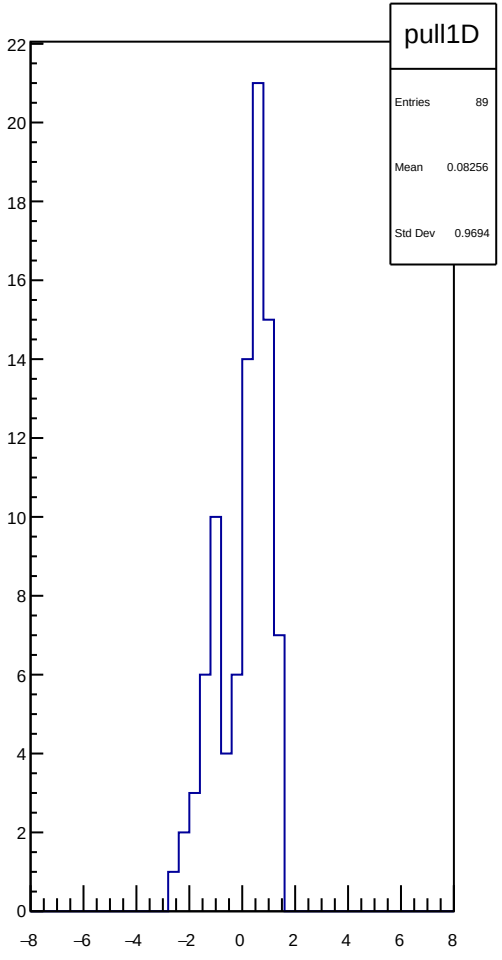

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 331.5 / 88
p0 109.2 ± 0.1599
pull
Entries 89
Mean −1907
Std Dev 0
pull1D
Entries 89
Mean 0.0213
Std Dev 1.93

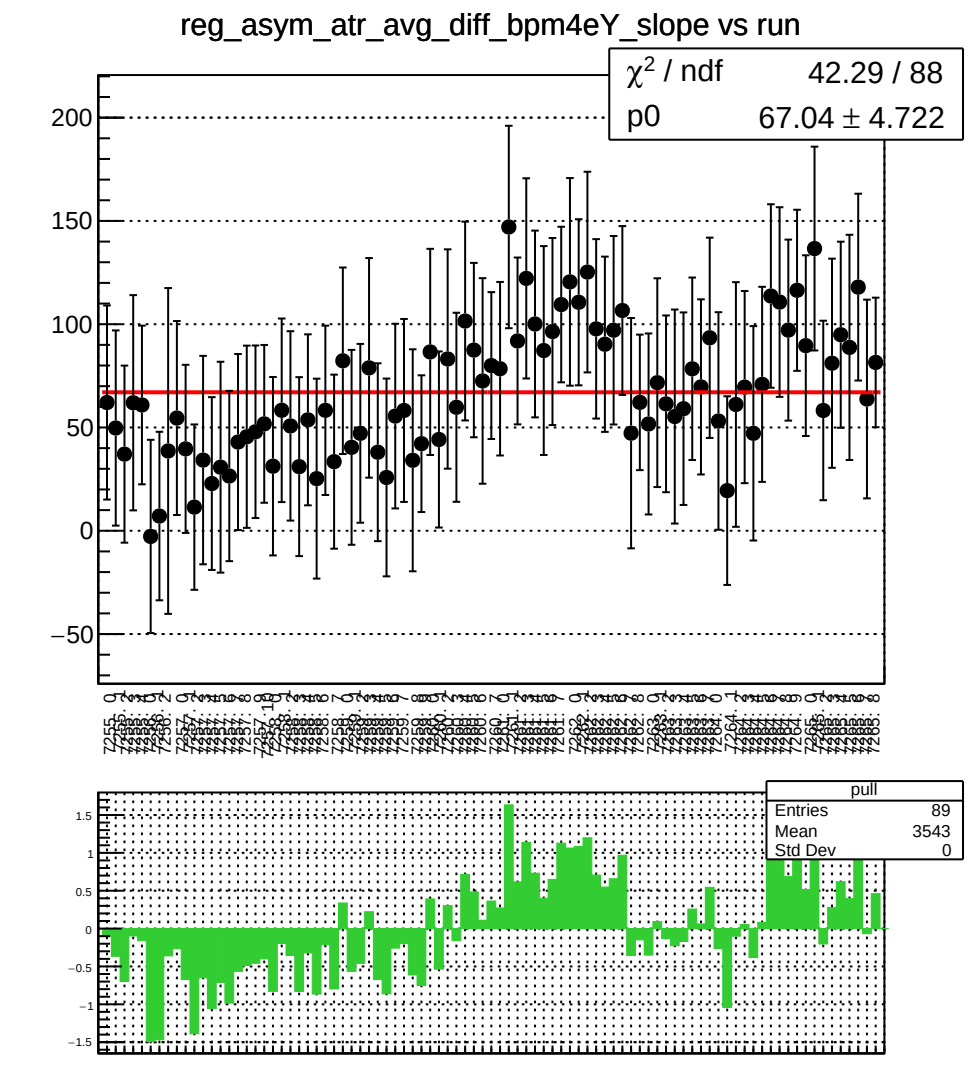

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 85.03 / 88
p0 −213.8 ± 5.141
pull
Entries 89
Mean −120.9
Std Dev 0
pull1D
Entries 89
Mean −0.07751
Std Dev 0.9744

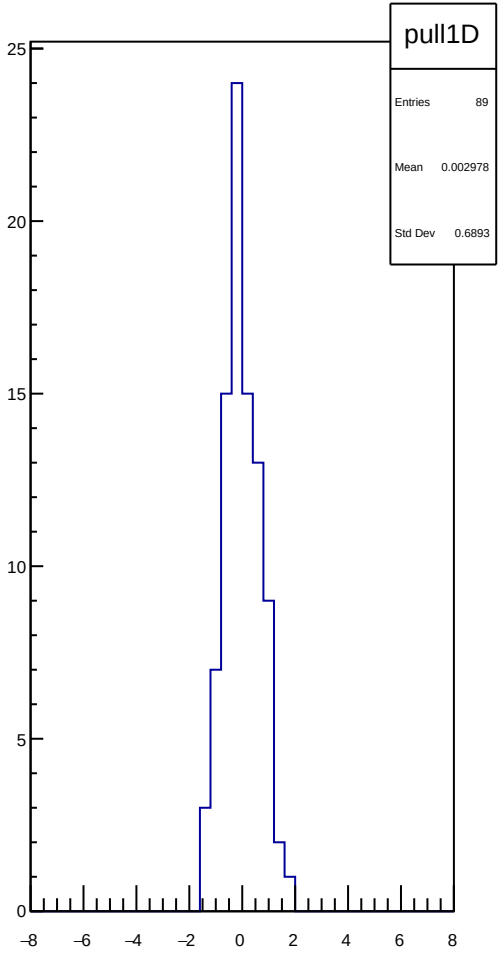

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.83 / 88
p0 −3.747 ± 4.492
100
50
0
−50
−100
pull
Entries 89
Mean 1548
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

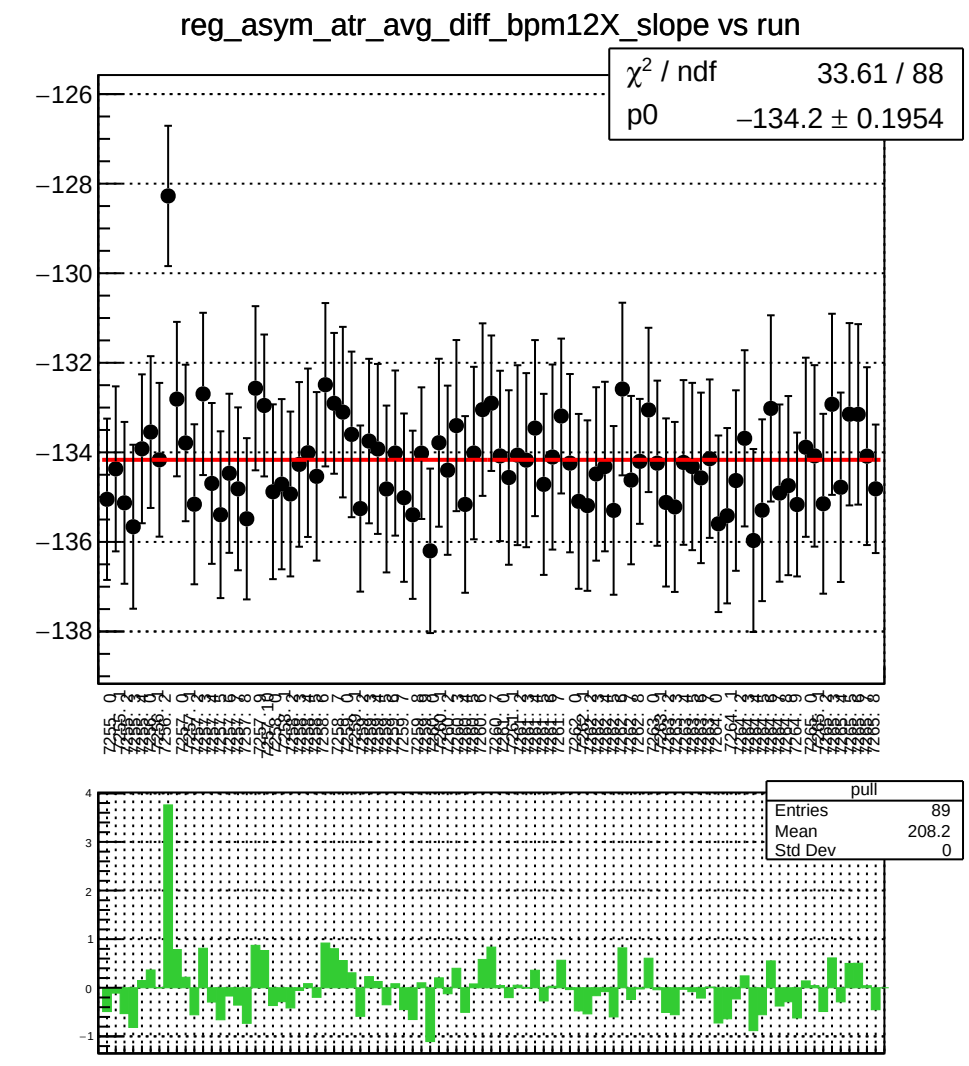

pull1D
Entries 89
Mean −0.006006
Std Dev 0.6256
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

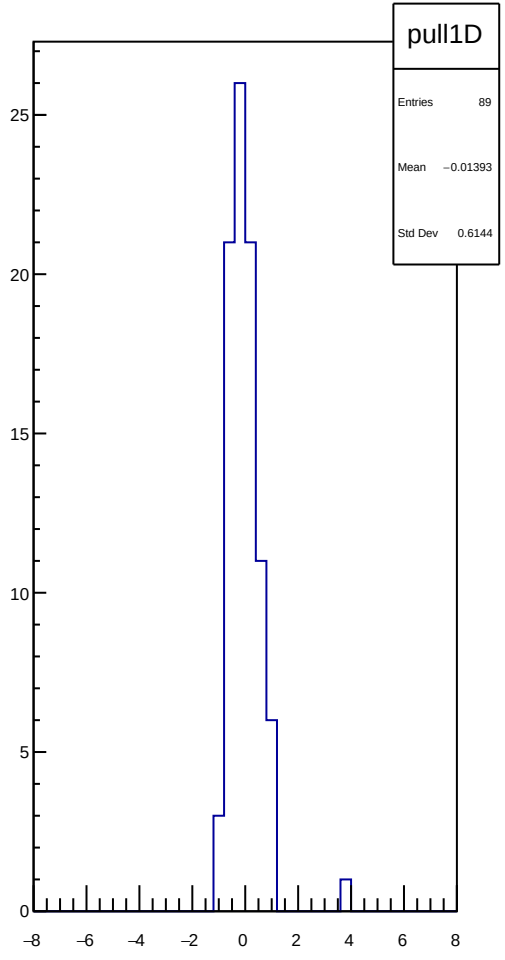

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.25 / 88
p0 247.3 ± 5.567
pull
Entries 89
Mean −108.6
Std Dev 0

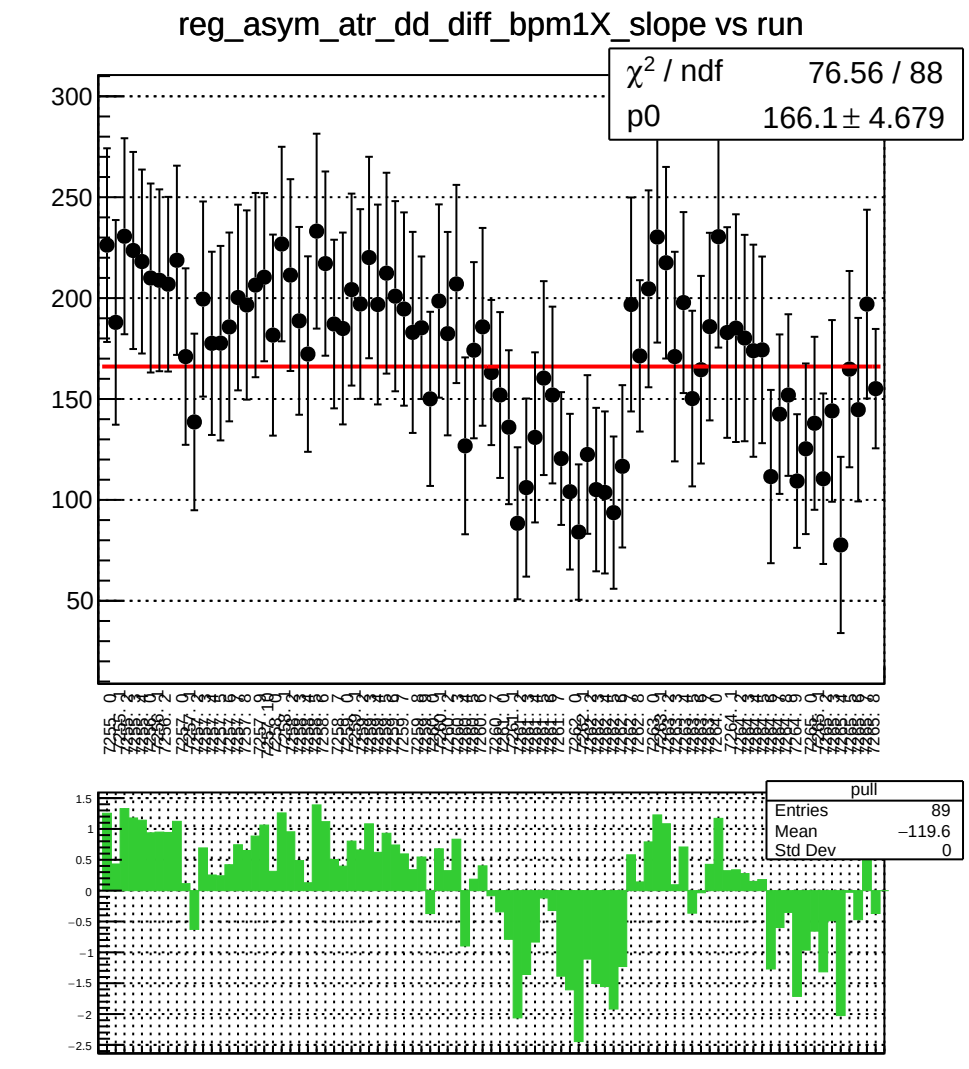

pull1D
Entries 89
Mean 0.08256
Std Dev 0.9694

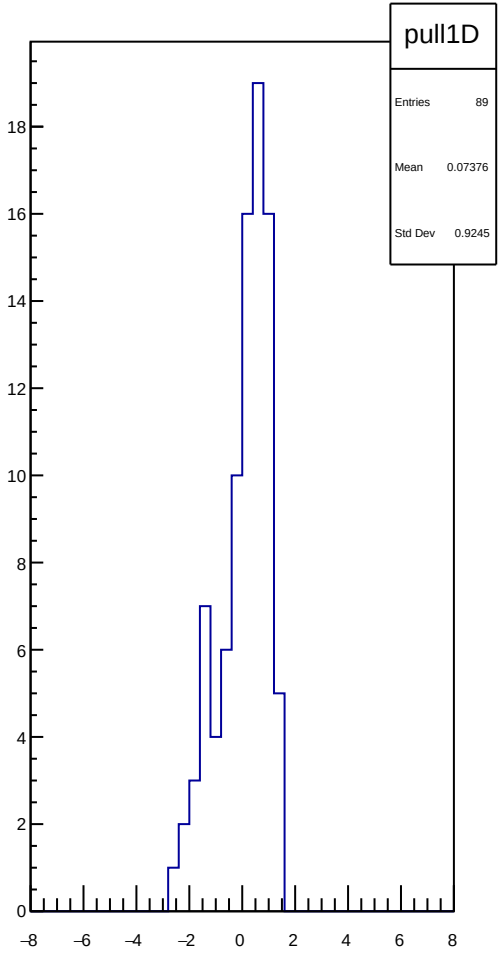

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.29 / 88
p0 67.04 ± 4.722
pull
Entries 89
Mean 3543
Std Dev 0

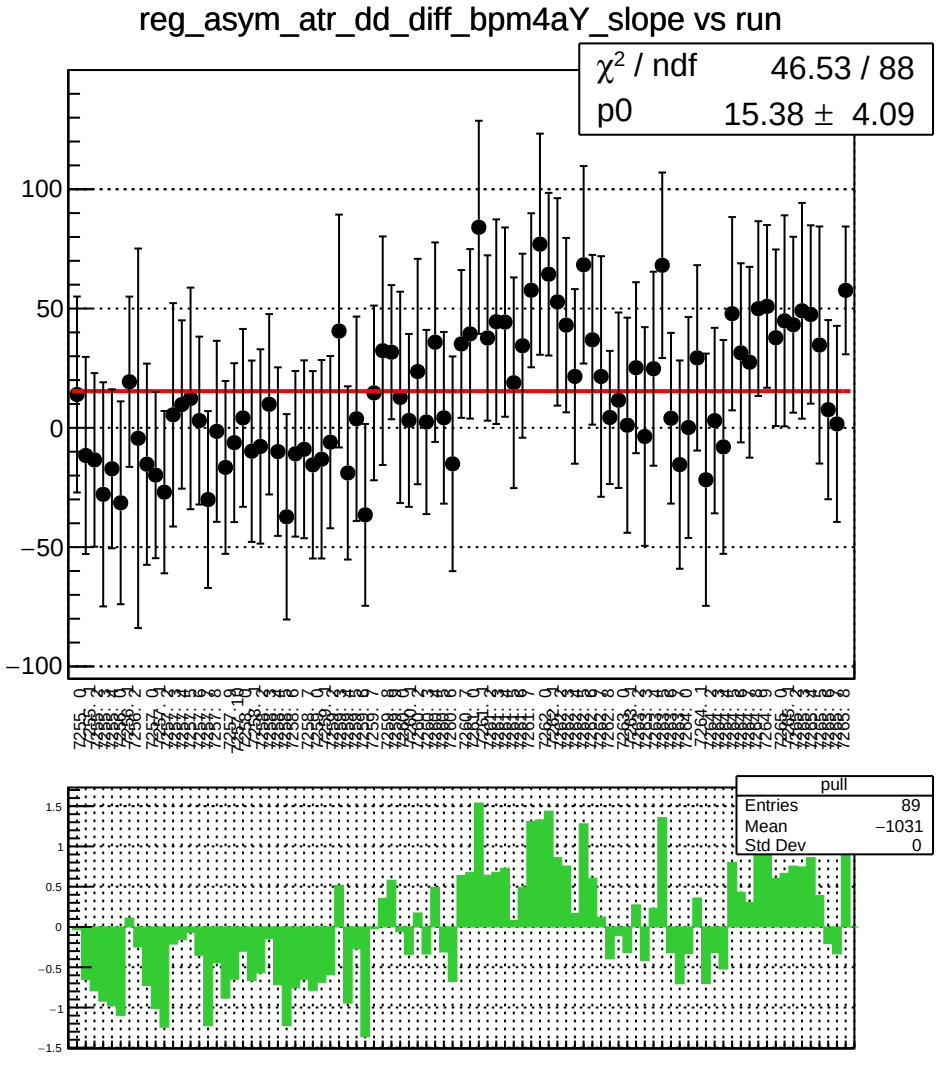

pull1D
Entries 89
Mean 0.002978
Std Dev 0.6893

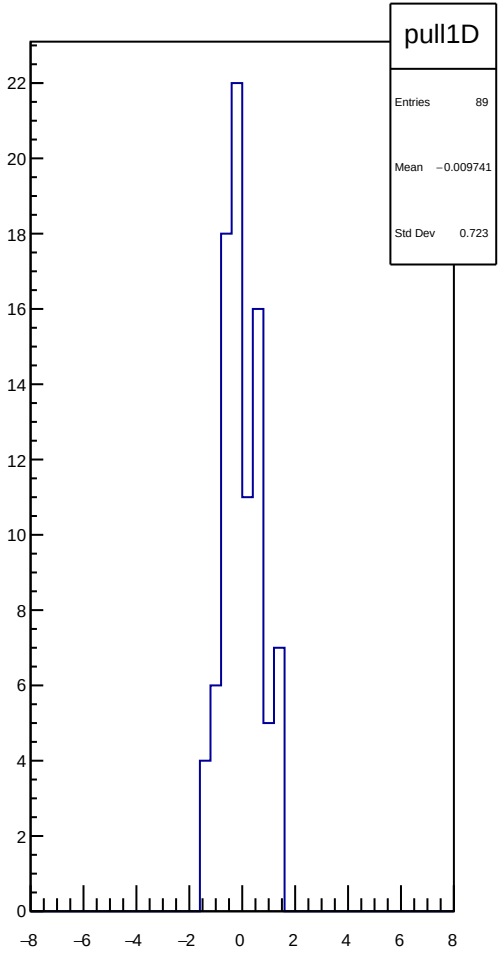

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 33.61 / 88
p0 −134.2 ± 0.1954
pull
Entries 89
Mean 208.2
Std Dev 0

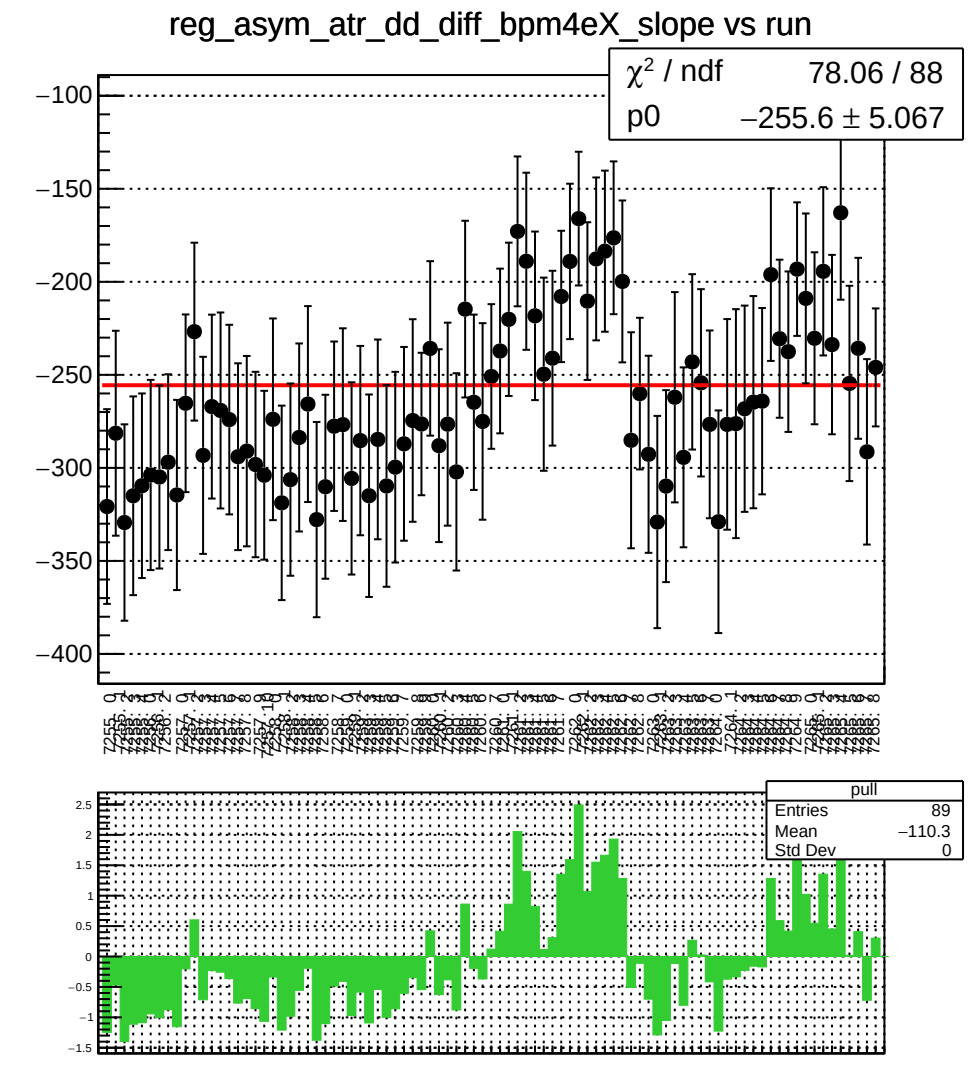

pull1D
Entries 89
Mean −0.01393
Std Dev 0.6144

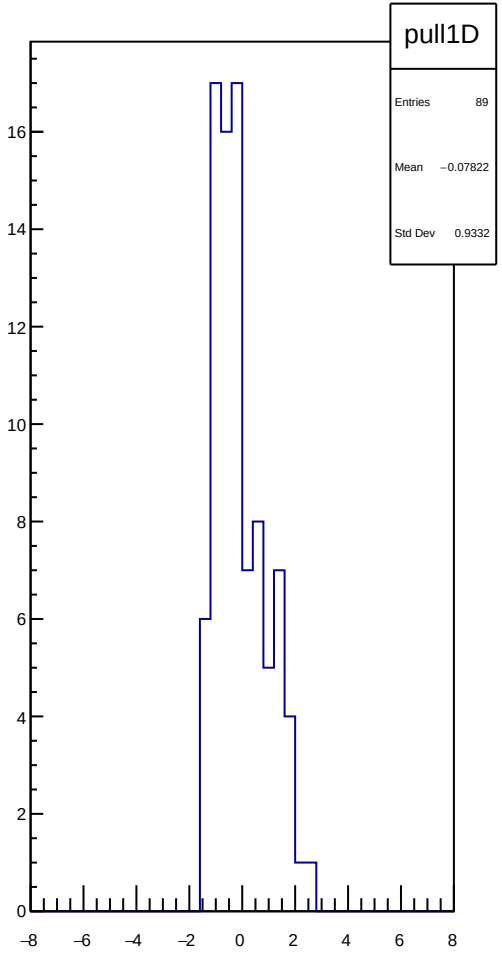

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 76.56 / 88
p0 166.1 ± 4.679
pull
Entries 89
Mean −119.6
Std Dev 0

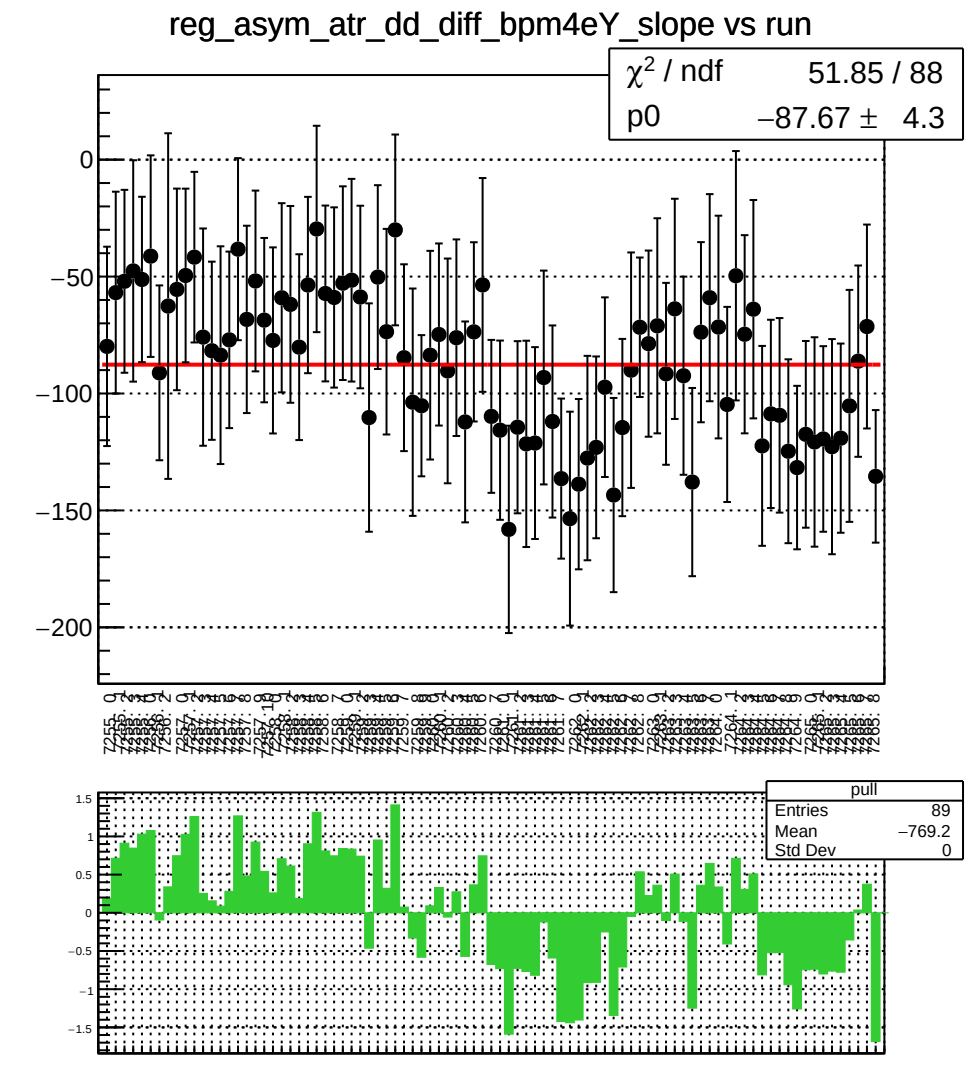

pull1D
Entries 89
Mean 0.07376
Std Dev 0.9245

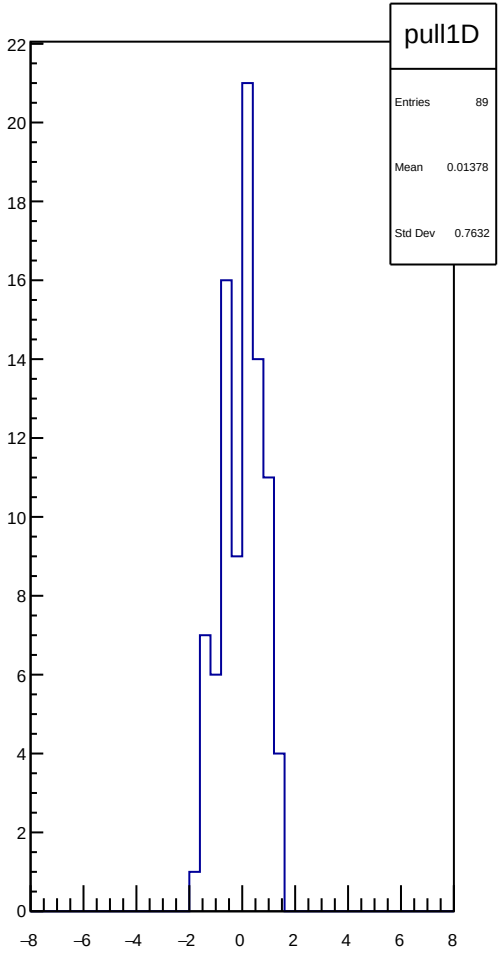

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 46.53 / 88
p0 15.38 ± 4.09
100
50
0
−50
−100
pull
Entries 89
Mean −1031
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

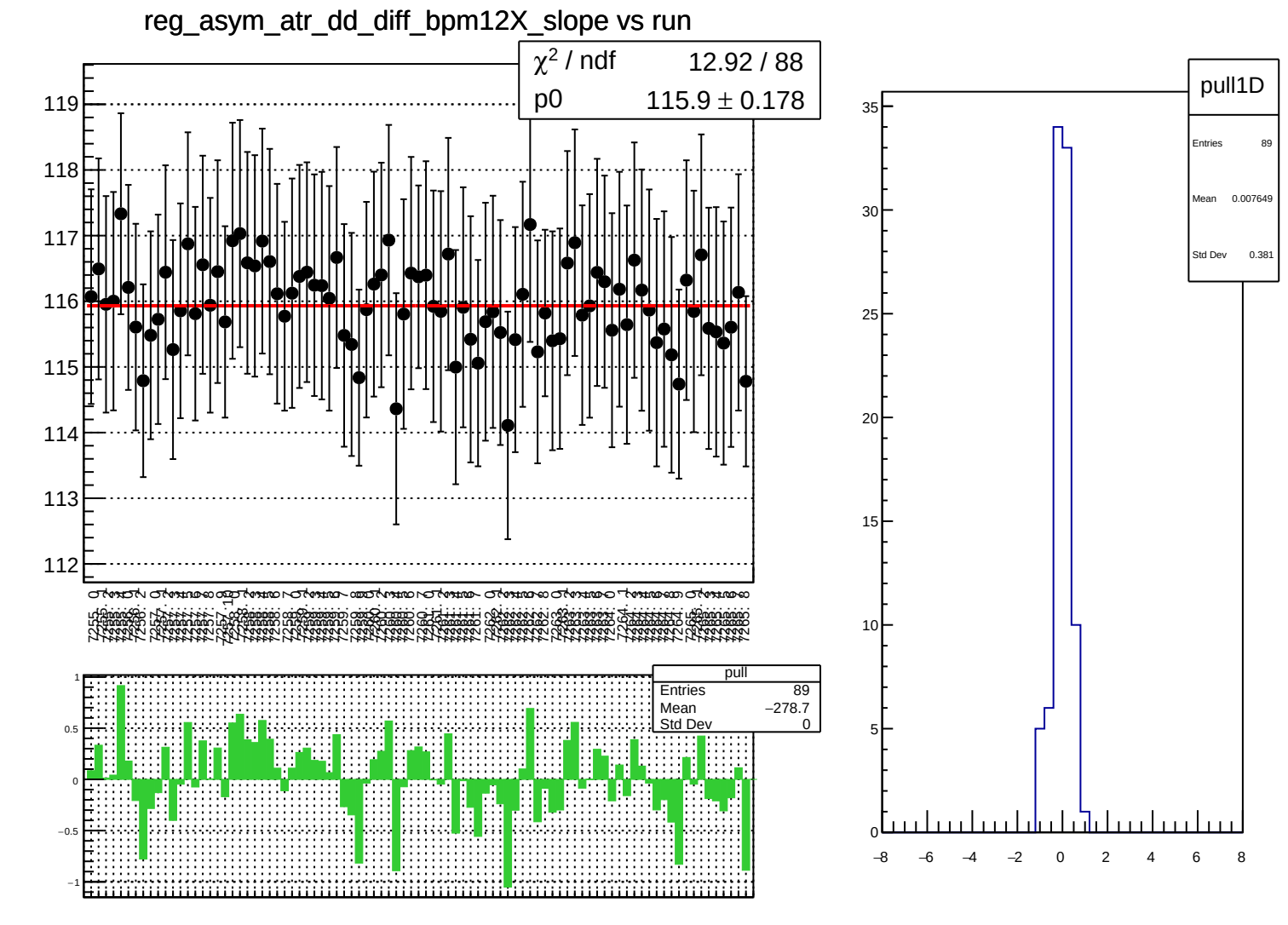

pull1D
Entries 89
Mean −0.009741
Std Dev 0.723
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

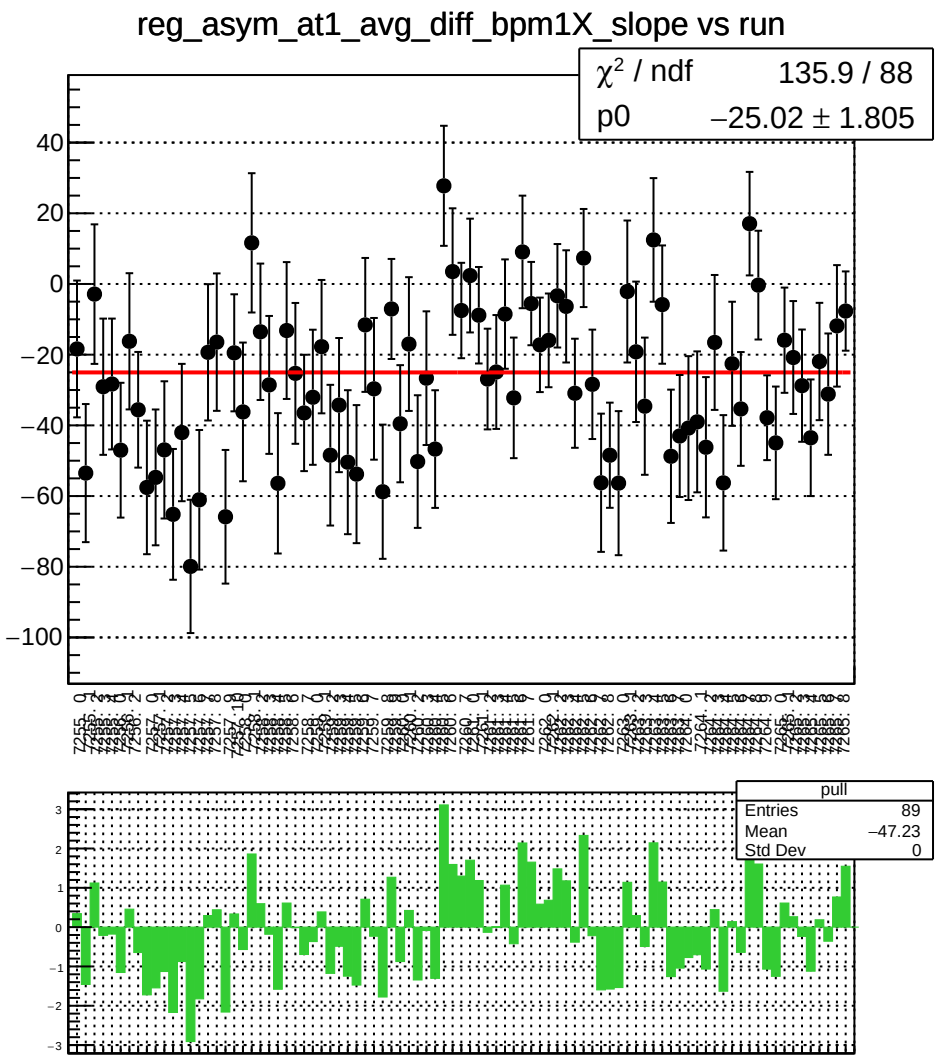

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.06 / 88
p0 −255.6 ± 5.067
pull
Entries 89
Mean −110.3
Std Dev 0

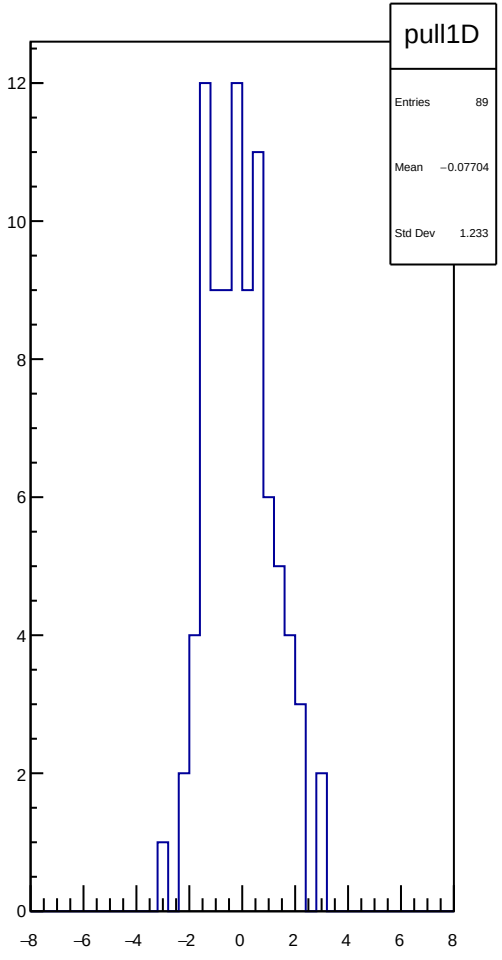

pull1D
Entries 89
Mean −0.07822
Std Dev 0.9332

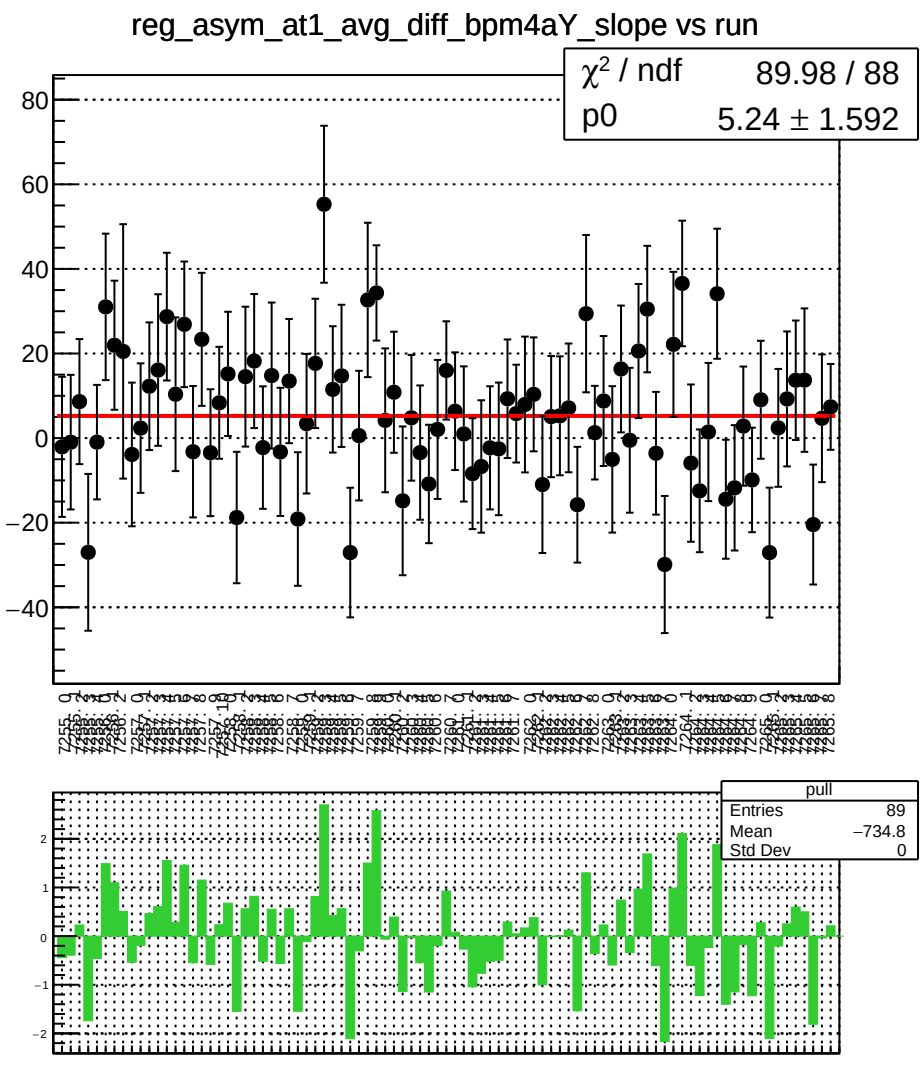

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.85 / 88
p0 −87.67 ± 4.3
pull
Entries 89
Mean −769.2
Std Dev 0

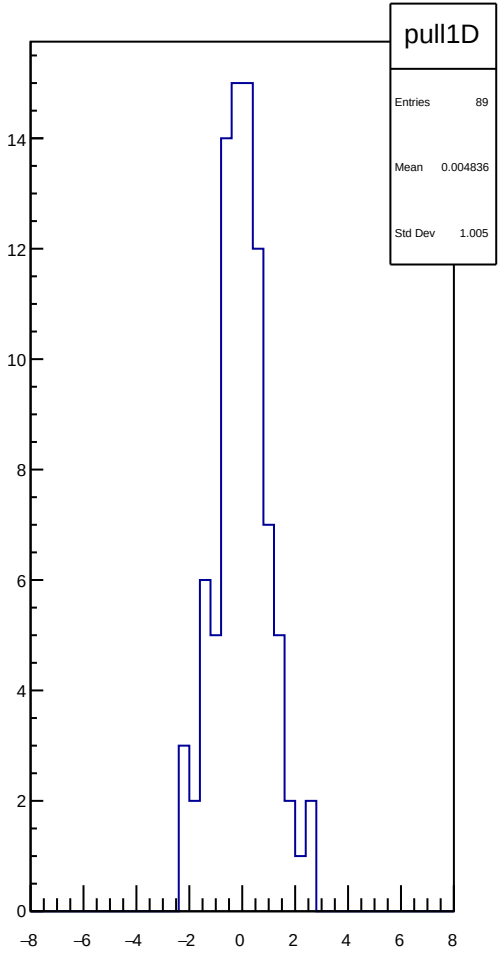

pull1D
Entries 89
Mean 0.01378
Std Dev 0.7632

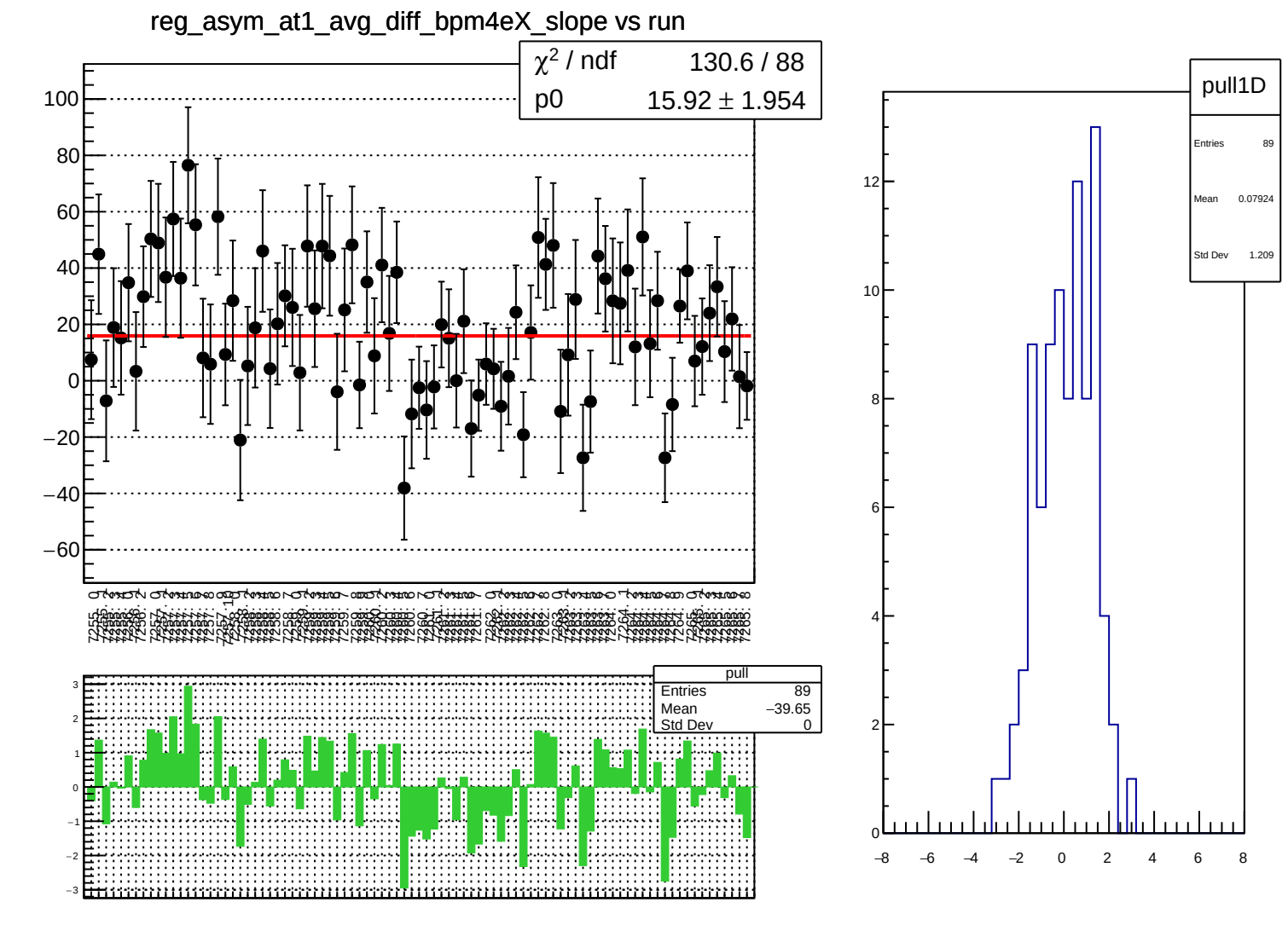

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 12.92 / 88
p0 115.9 ± 0.178
pull
Entries 89
Mean −278.7
Std Dev 0
pull1D
Entries 89
Mean 0.007649
Std Dev 0.381

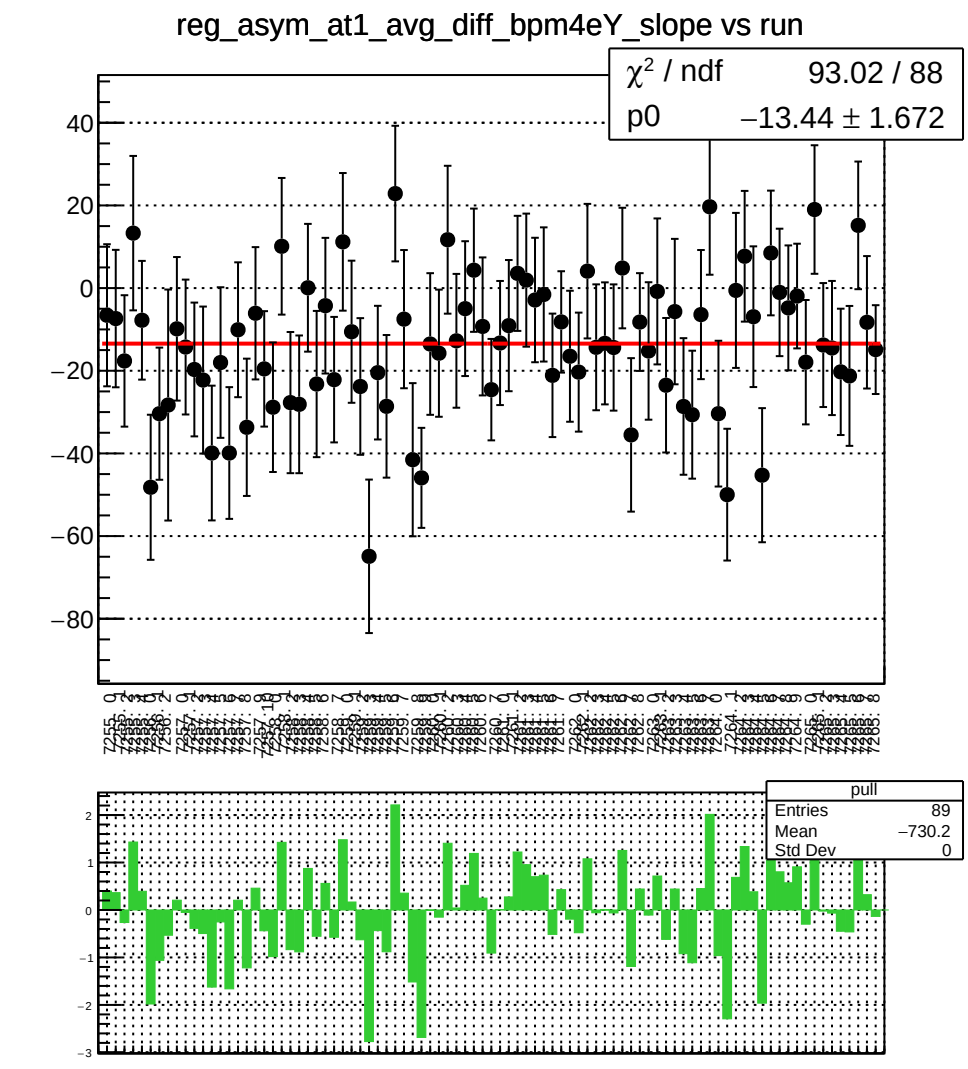

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 135.9 / 88
p0 −25.02 ± 1.805
pull
Entries 89
Mean −47.23
Std Dev 0

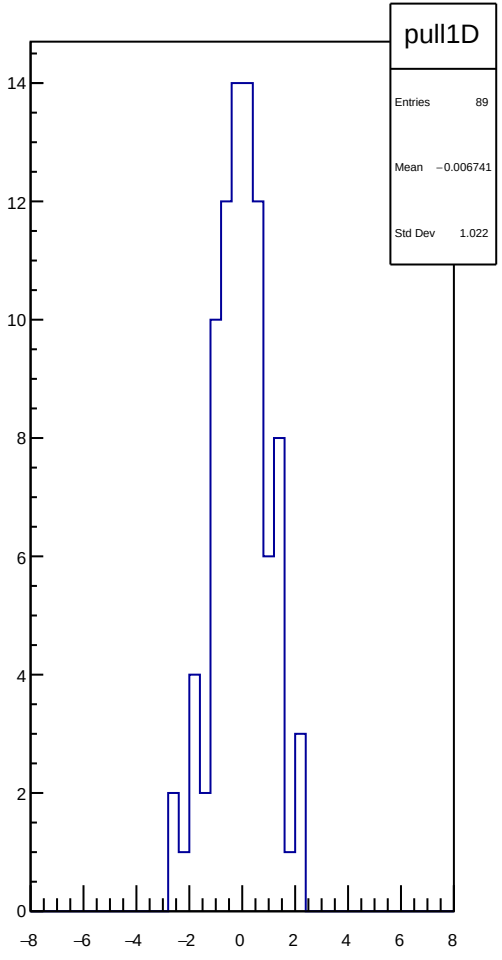

pull1D
Entries 89
Mean −0.07704
Std Dev 1.233

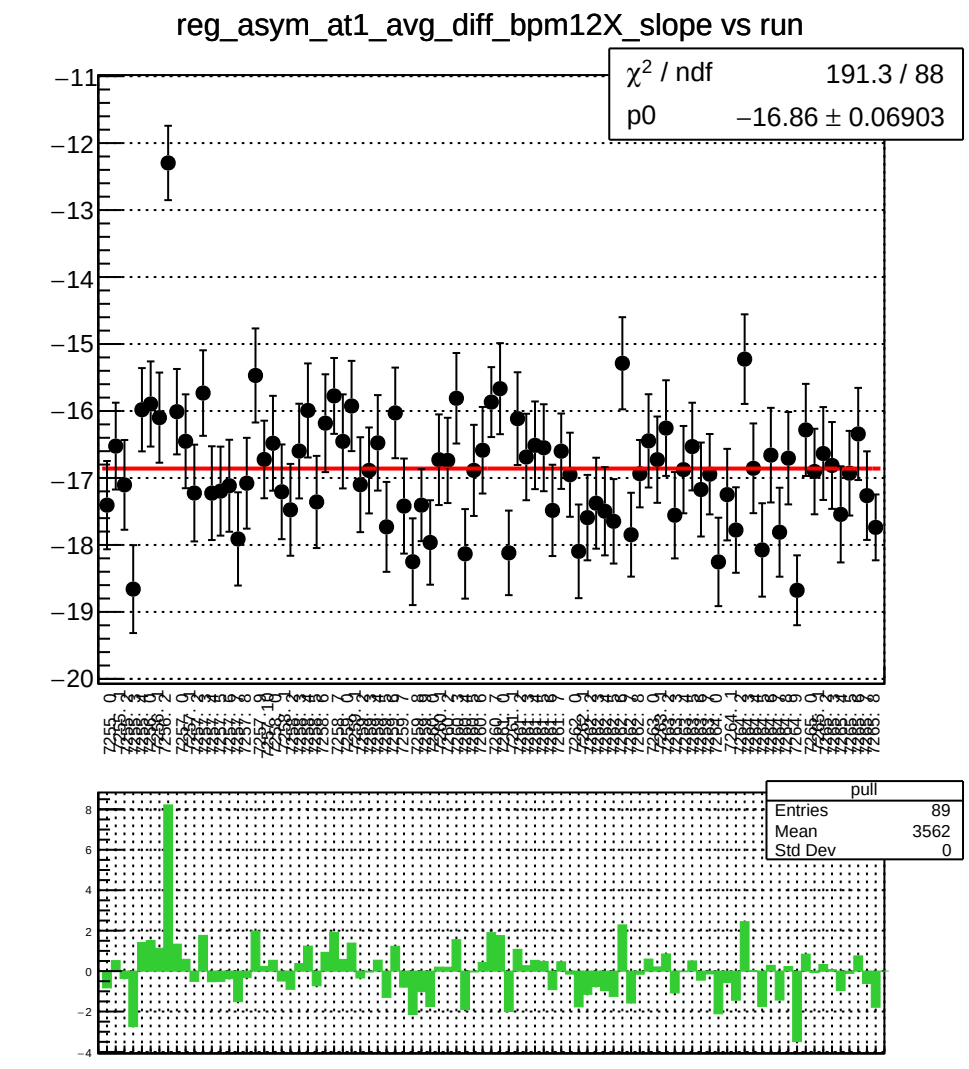

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.98 / 88
p0 5.24 ± 1.592
pull
Entries 89
Mean −734.8
Std Dev 0

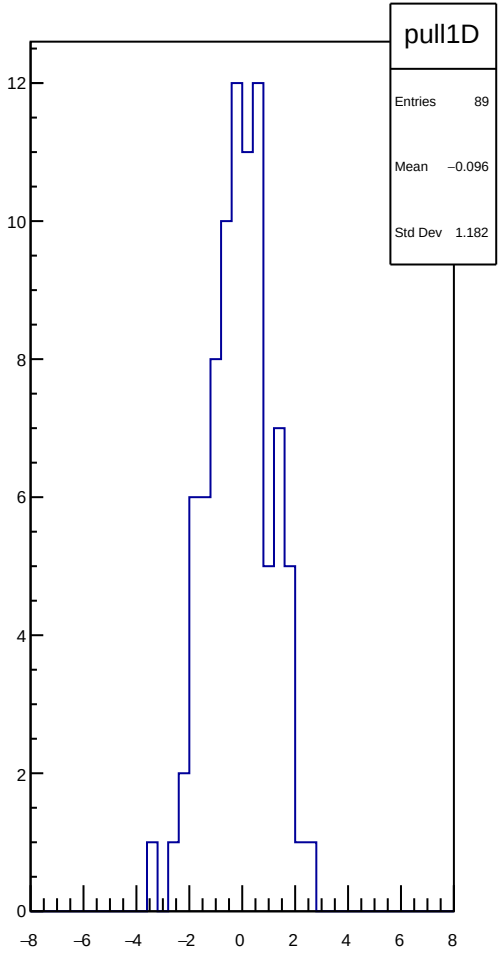

pull1D
Entries 89
Mean 0.004836
Std Dev 1.005

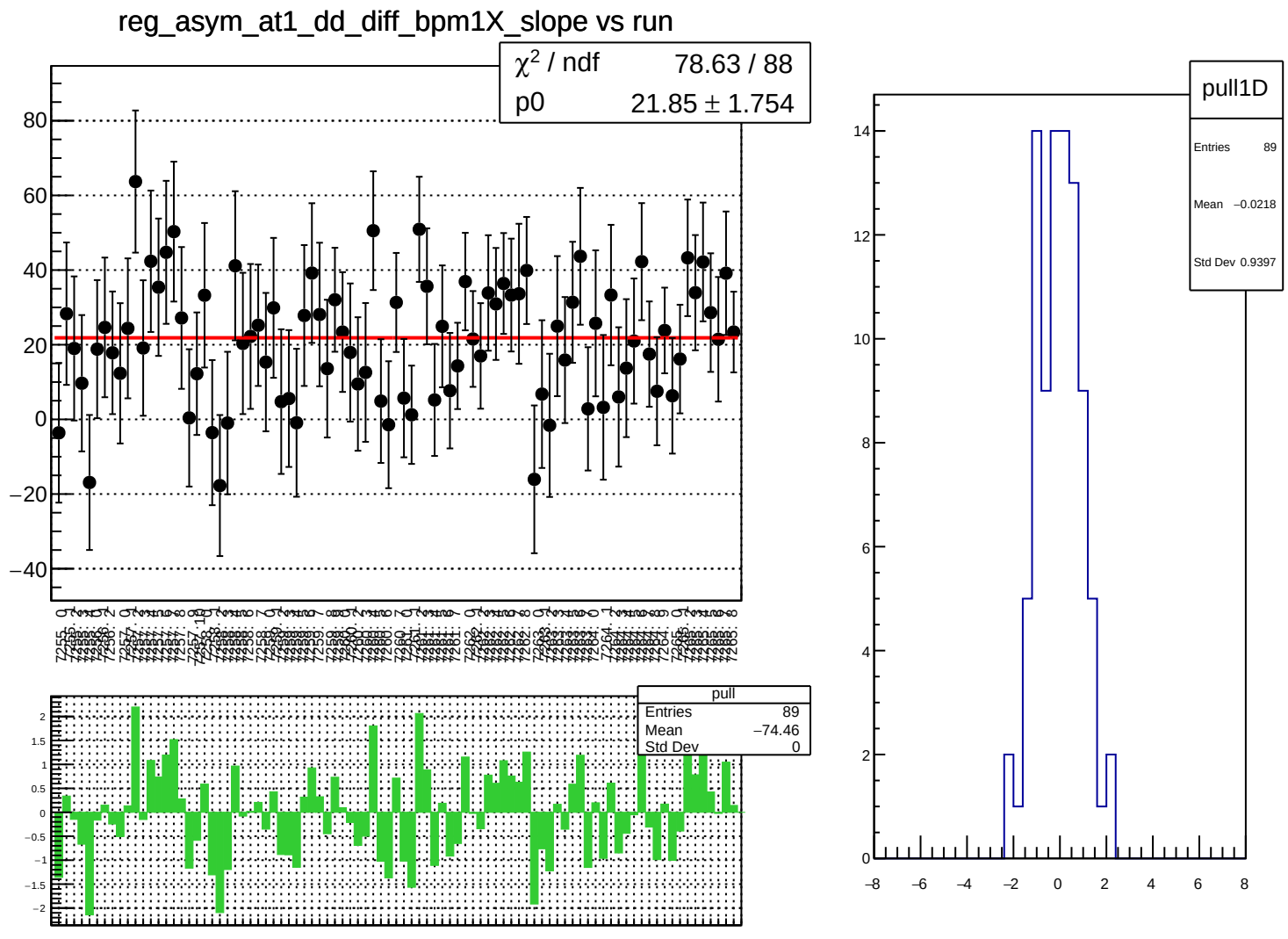

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 130.6 / 88
p0 15.92 ± 1.954
pull
Entries 89
Mean −39.65
Std Dev 0
pull1D
Entries 89
Mean 0.07924
Std Dev 1.209

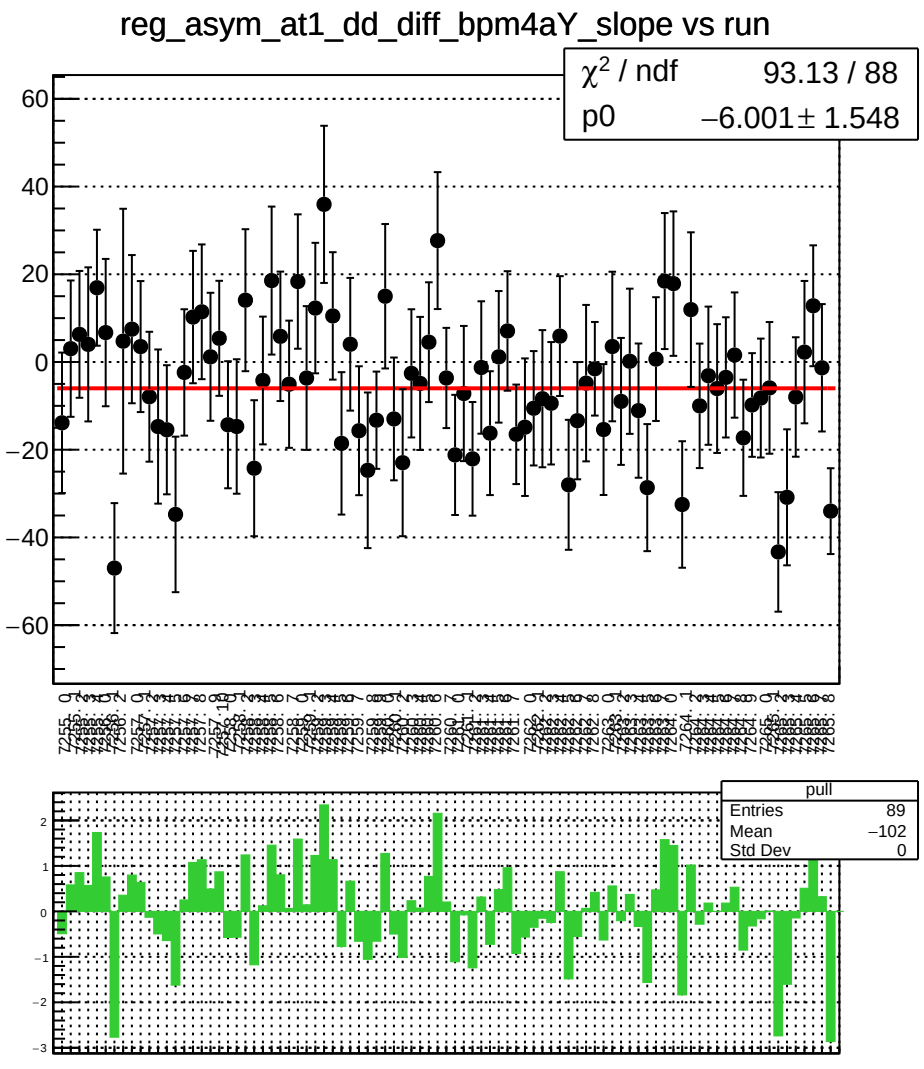

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 93.02 / 88
p0 −13.44 ± 1.672
pull
Entries 89
Mean −730.2
Std Dev 0

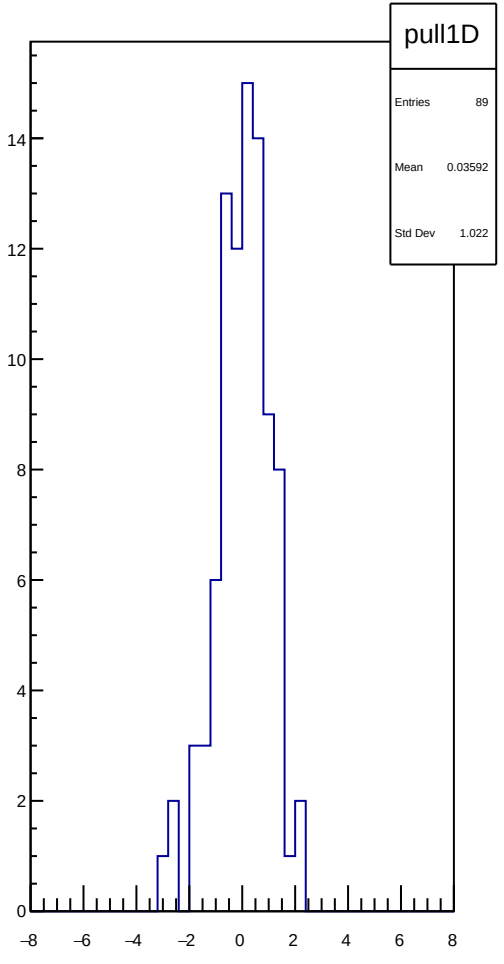

pull1D
Entries 89
Mean −0.006741
Std Dev 1.022

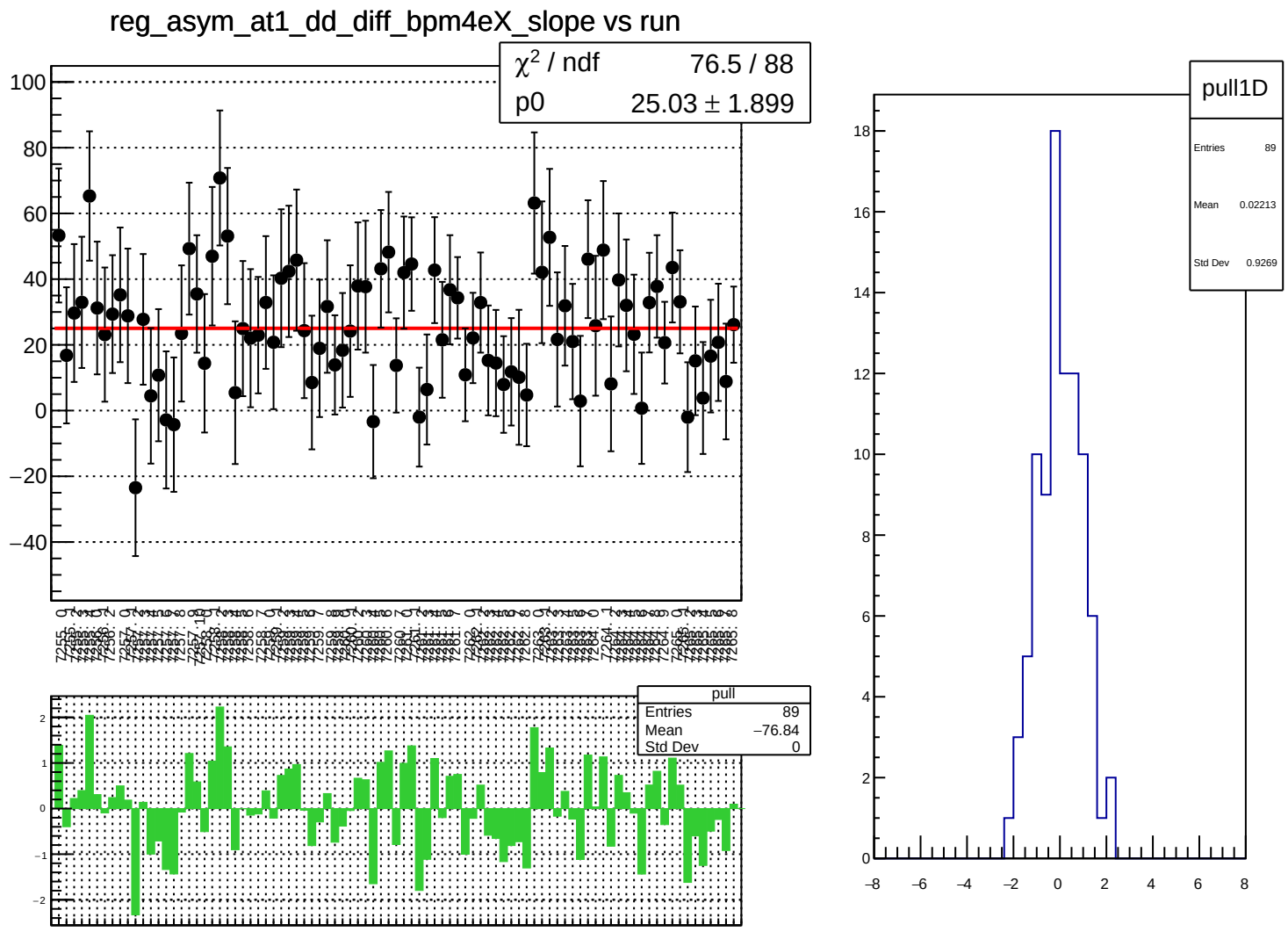

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 191.3 / 88
p0 −16.86 ± 0.06903
pull
Entries 89
Mean 3562
Std Dev 0

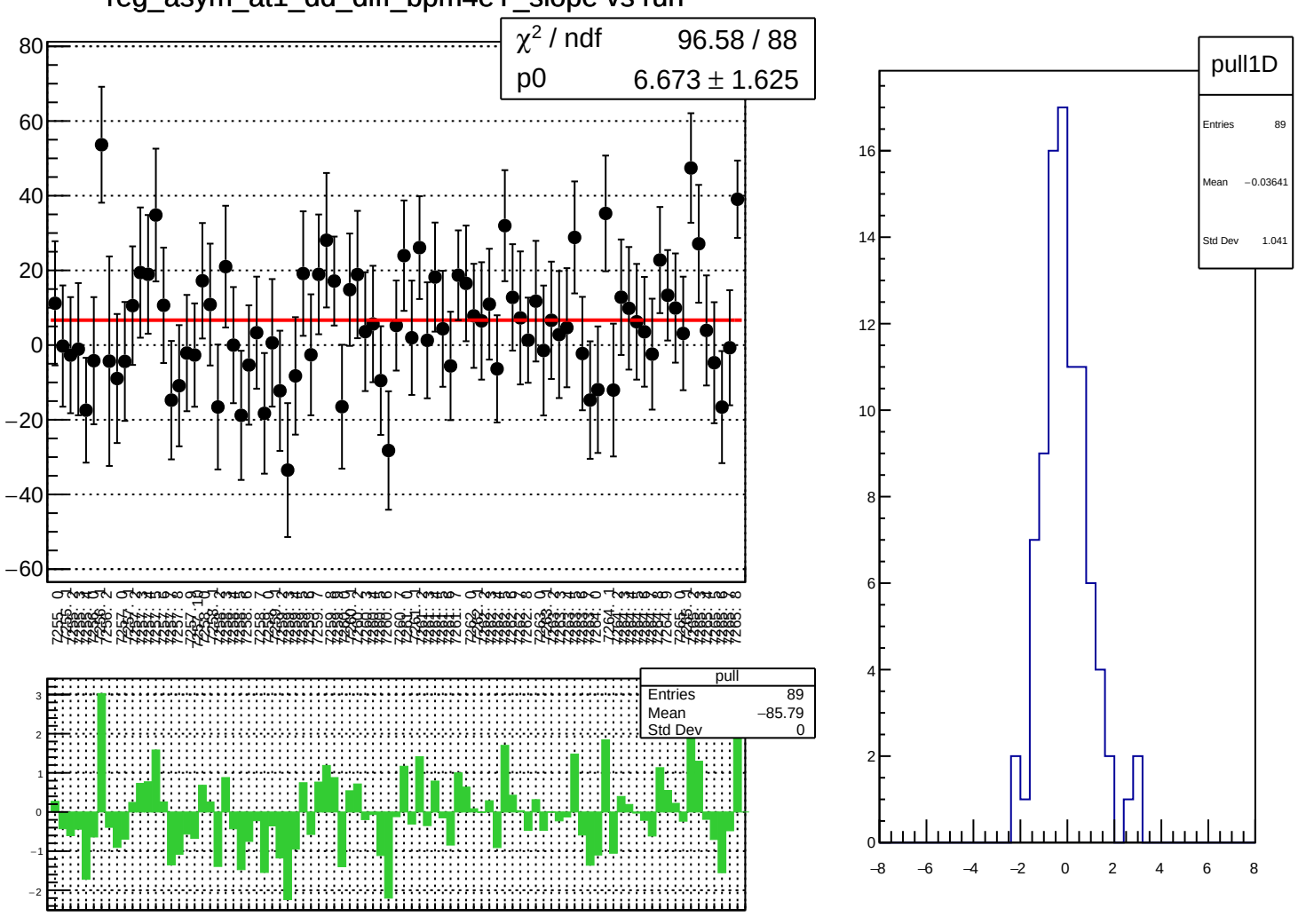

pull1D
Entries 89
Mean −0.096
Std Dev 1.182

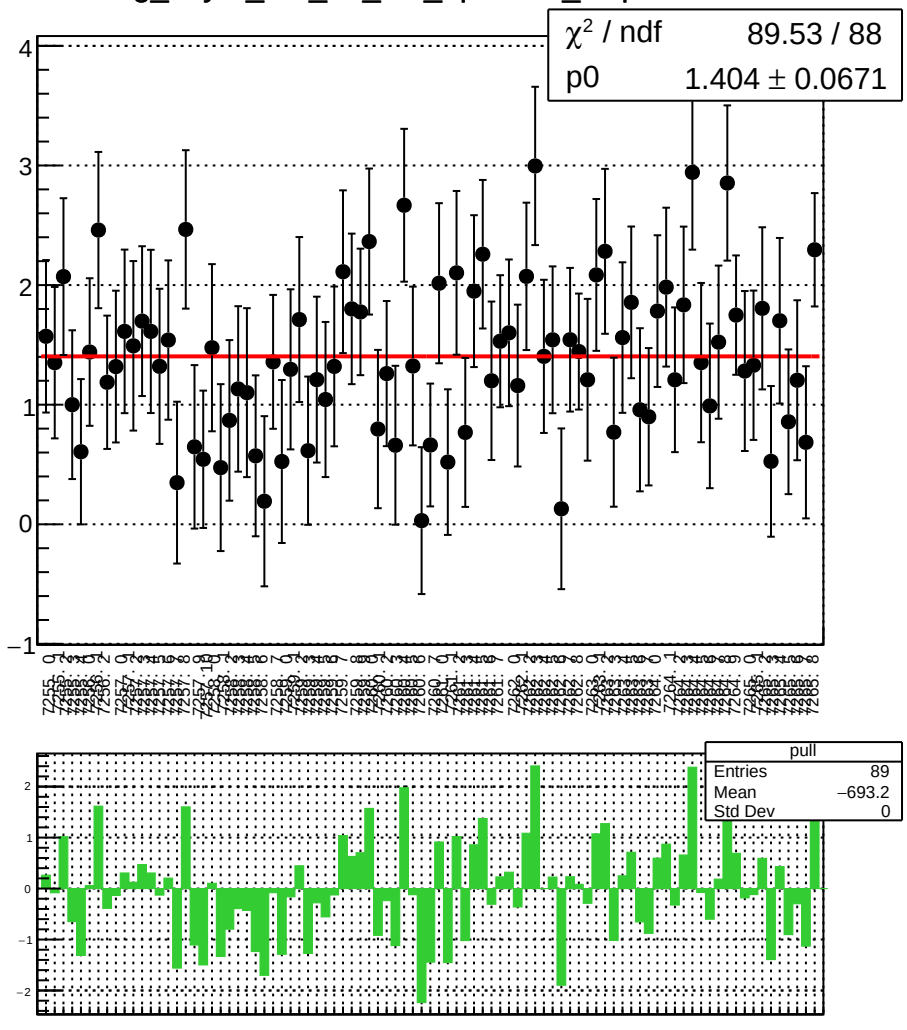

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 78.63 / 88
p0 21.85 ± 1.754
pull
Entries 89
Mean −74.46
Std Dev 0
pull1D
Entries 89
Mean −0.0218
Std Dev 0.9397

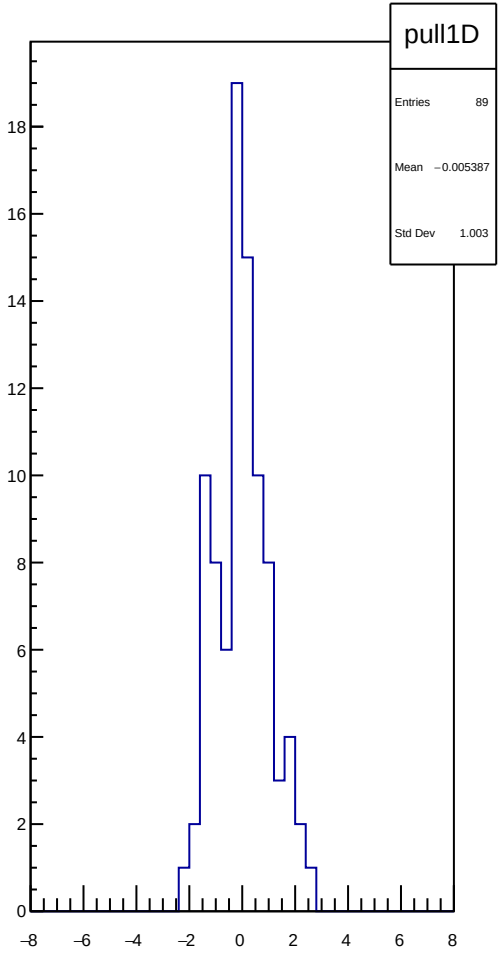

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 93.13 / 88
p0 −6.001 ± 1.548
pull
Entries 89
Mean −102
Std Dev 0

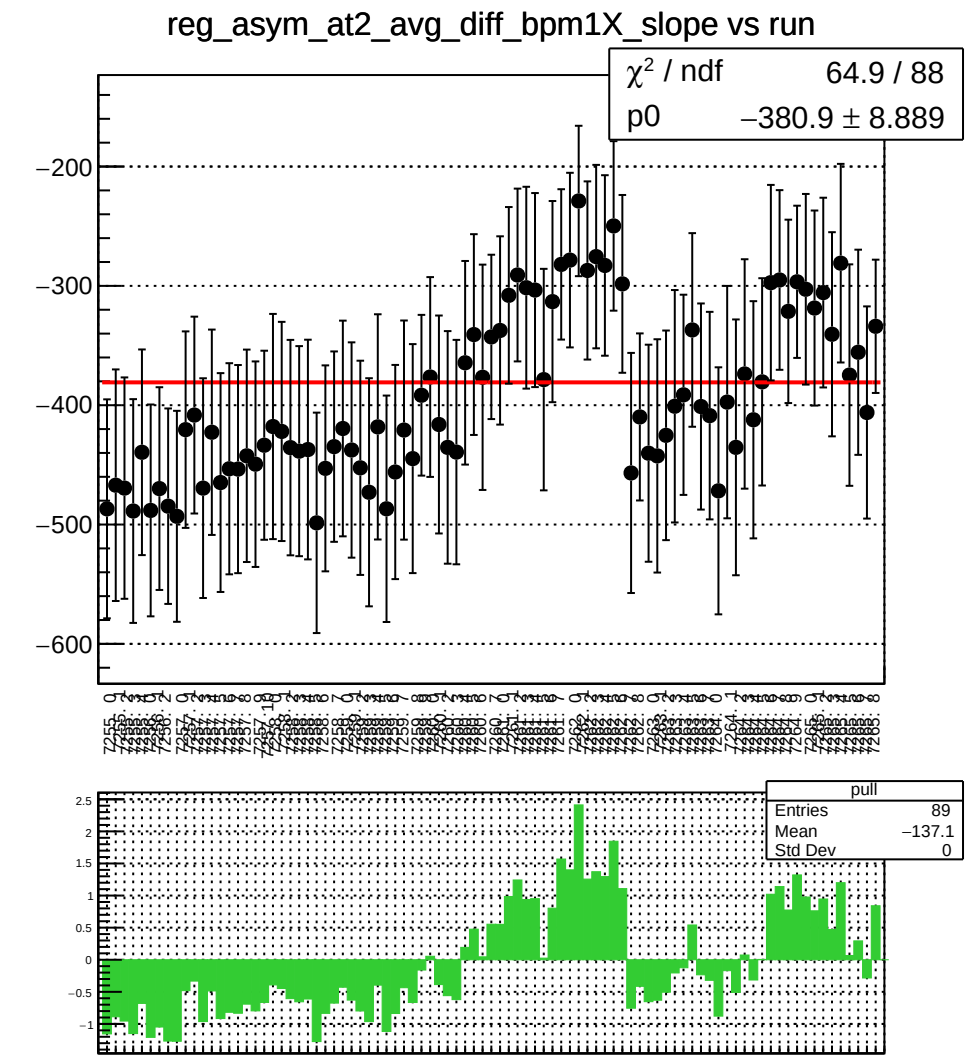

pull1D
Entries 89
Mean 0.03592
Std Dev 1.022

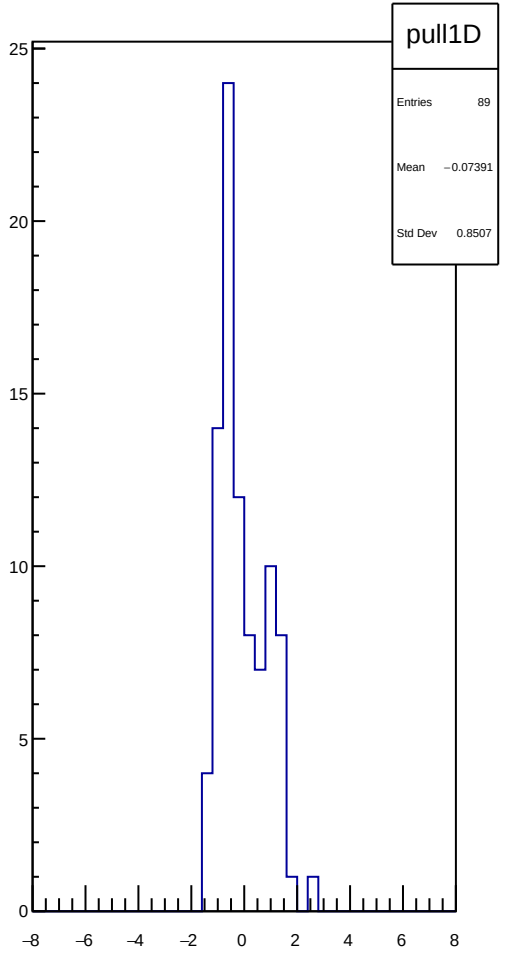

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 76.5 / 88
p0 25.03 ± 1.899
pull
Entries 89
Mean −76.84
Std Dev 0
pull1D
Entries 89
Mean 0.02213
Std Dev 0.9269

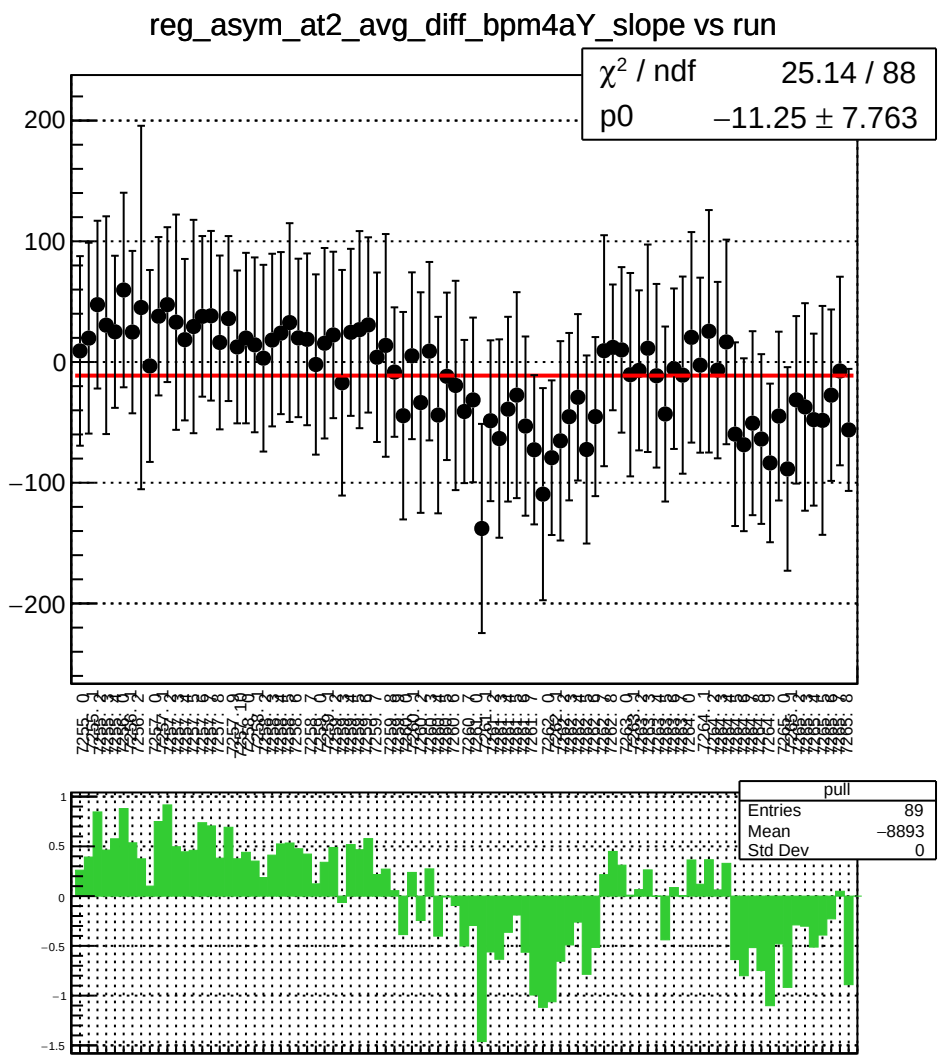

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 96.58 / 88
p0 6.673 ± 1.625
pull
Entries 89
Mean −85.79
Std Dev 0
pull1D
Entries 89
Mean −0.03641
Std Dev 1.041

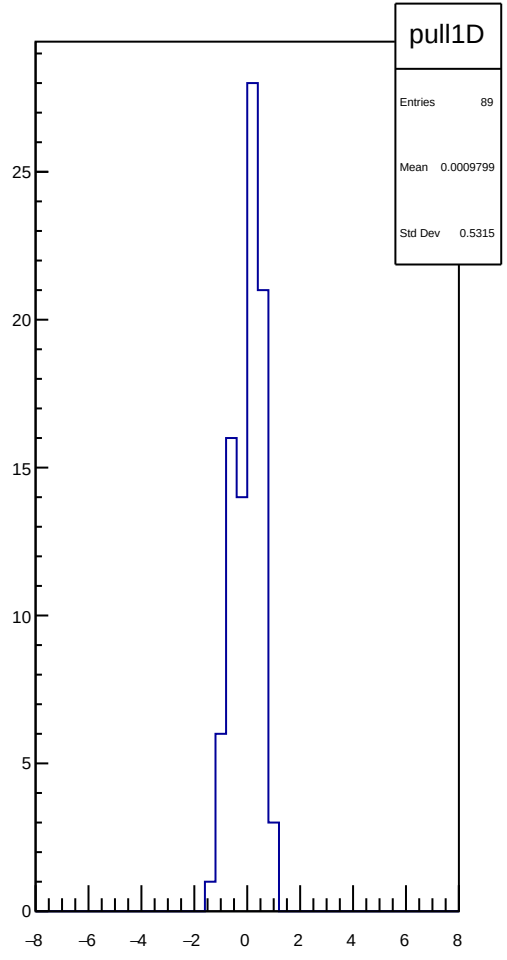

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 89.53 / 88
p0 1.404 ± 0.0671
pull
Entries 89
Mean −693.2
Std Dev 0

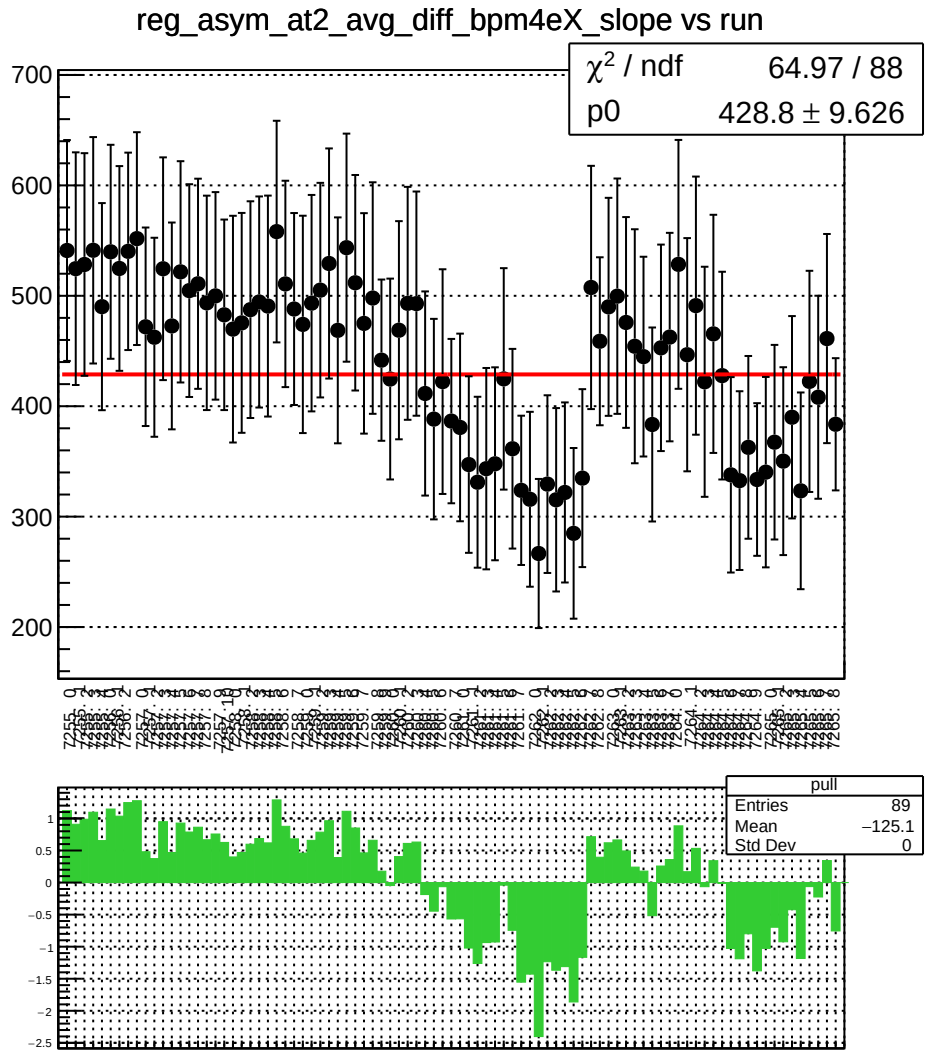

pull1D
Entries 89
Mean −0.005387
Std Dev 1.003

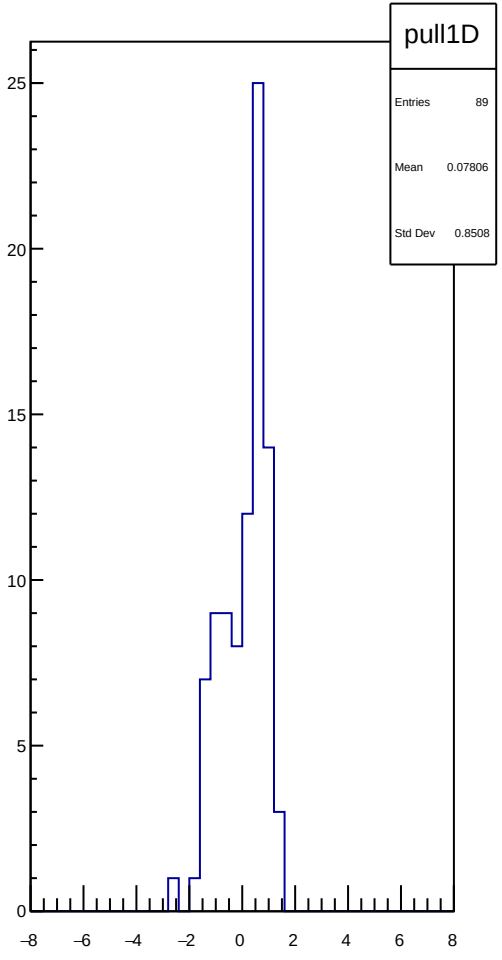

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 64.9 / 88
p0 −380.9 ± 8.889
−200
−300
−400
−500
−600
pull
Entries 89
Mean −137.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

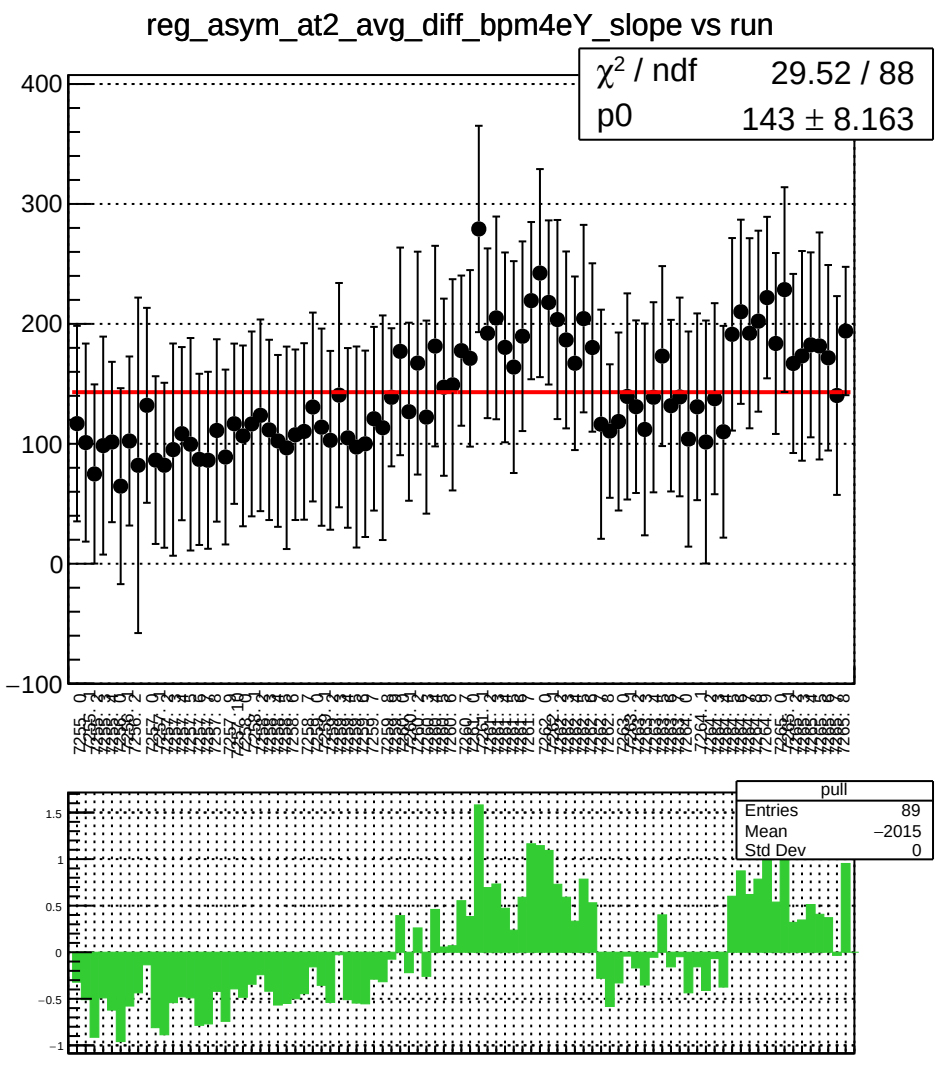

pull1D
Entries 89
Mean −0.07391
Std Dev 0.8507
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

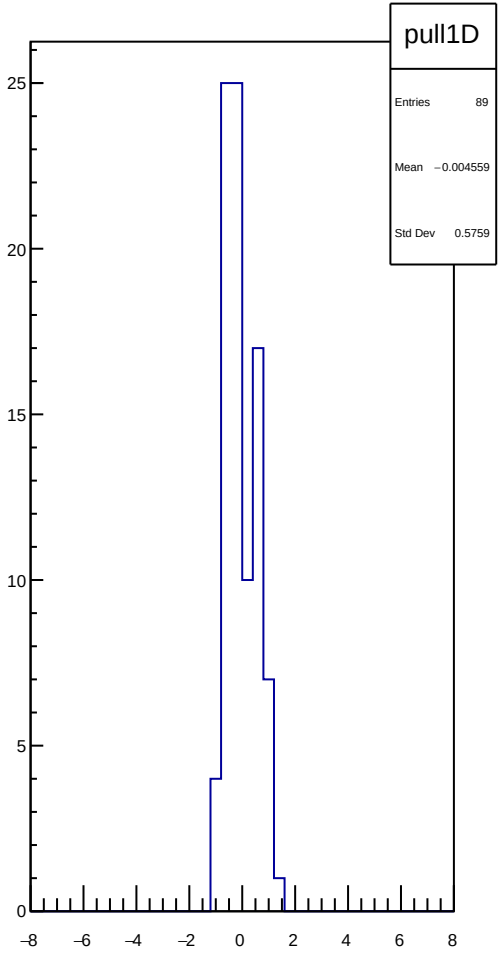

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.14 / 88
p0 −11.25 ± 7.763
200
100
0
−100
−200
pull
Entries 89
Mean −8893
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

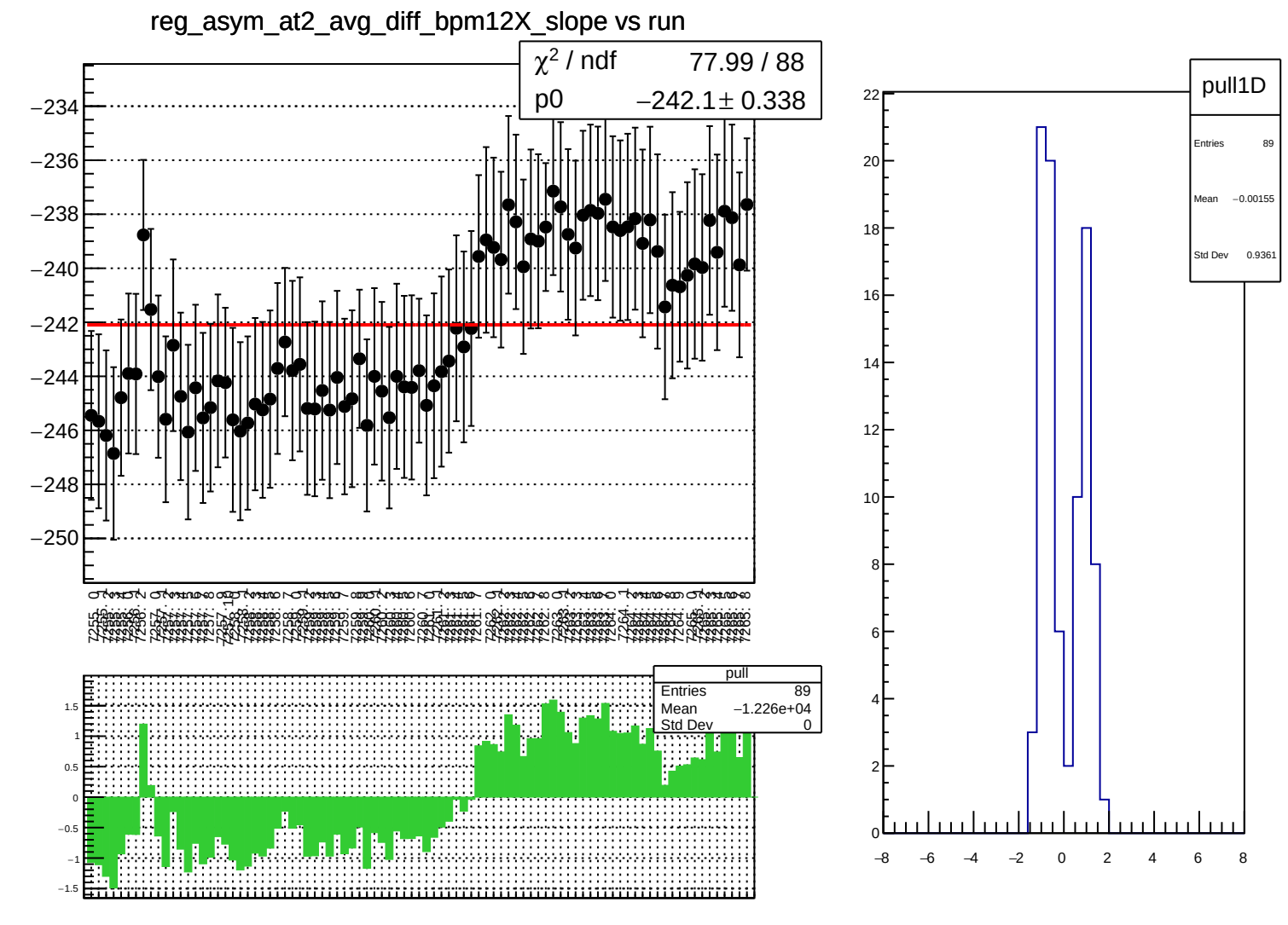

pull1D
Entries 89
Mean 0.0009799
Std Dev 0.5315
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

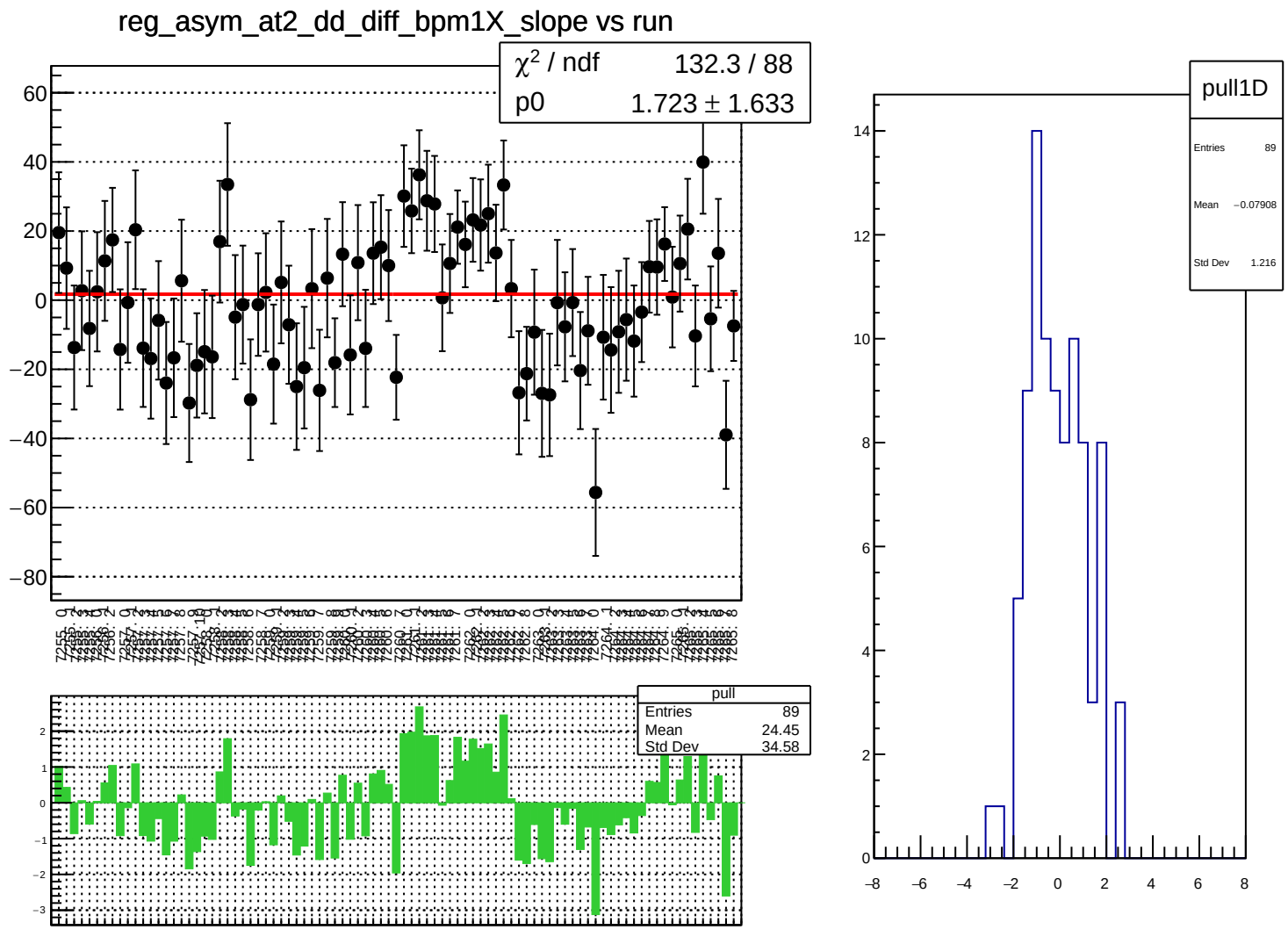

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.97 / 88
p0 428.8 ± 9.626
700
600
500
400
300
200
pull
Entries 89
Mean −125.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

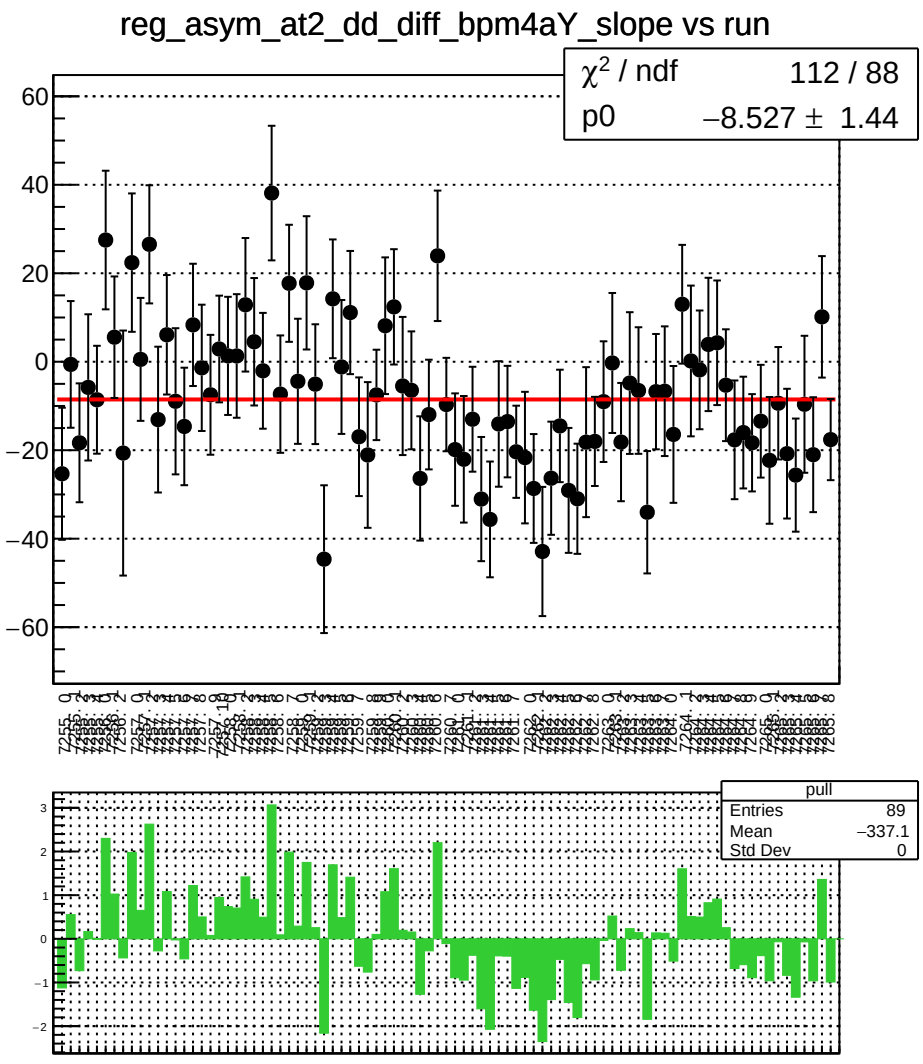

pull1D
Entries 89
Mean 0.07806
Std Dev 0.8508
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

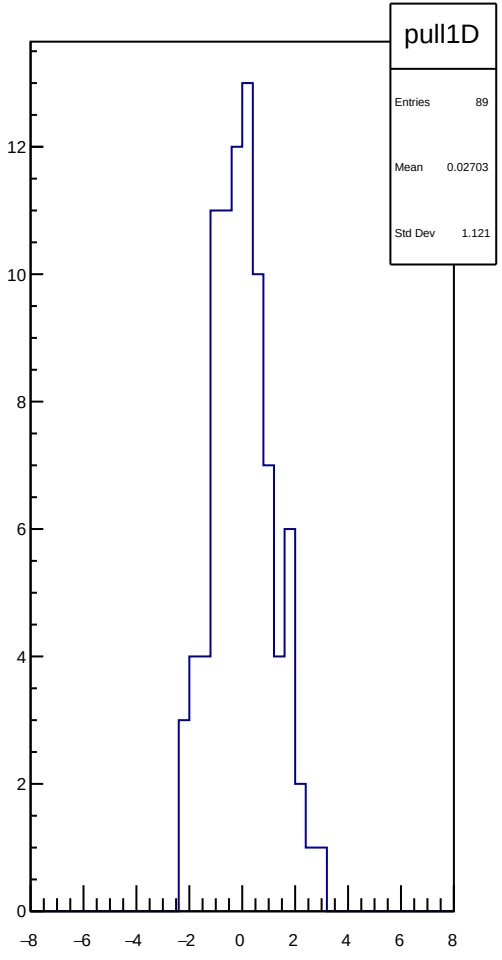

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.52 / 88
p0 143 ± 8.163
400
300
200
100
0
−100
pull
Entries 89
Mean −2015
Std Dev 0
1.5
1
0.5
0
−0.5
−1

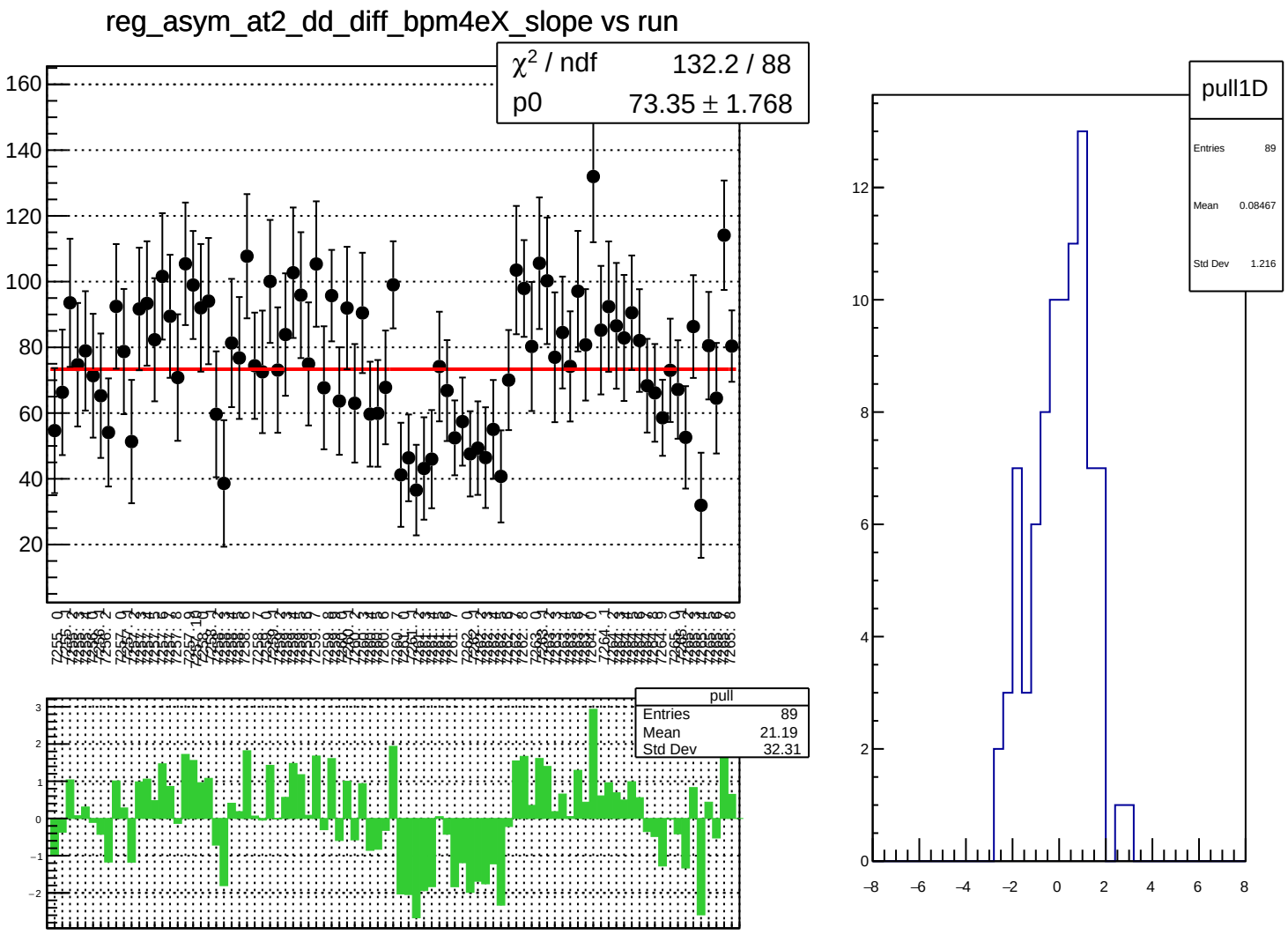

pull1D
Entries 89
Mean −0.004559
Std Dev 0.5759
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

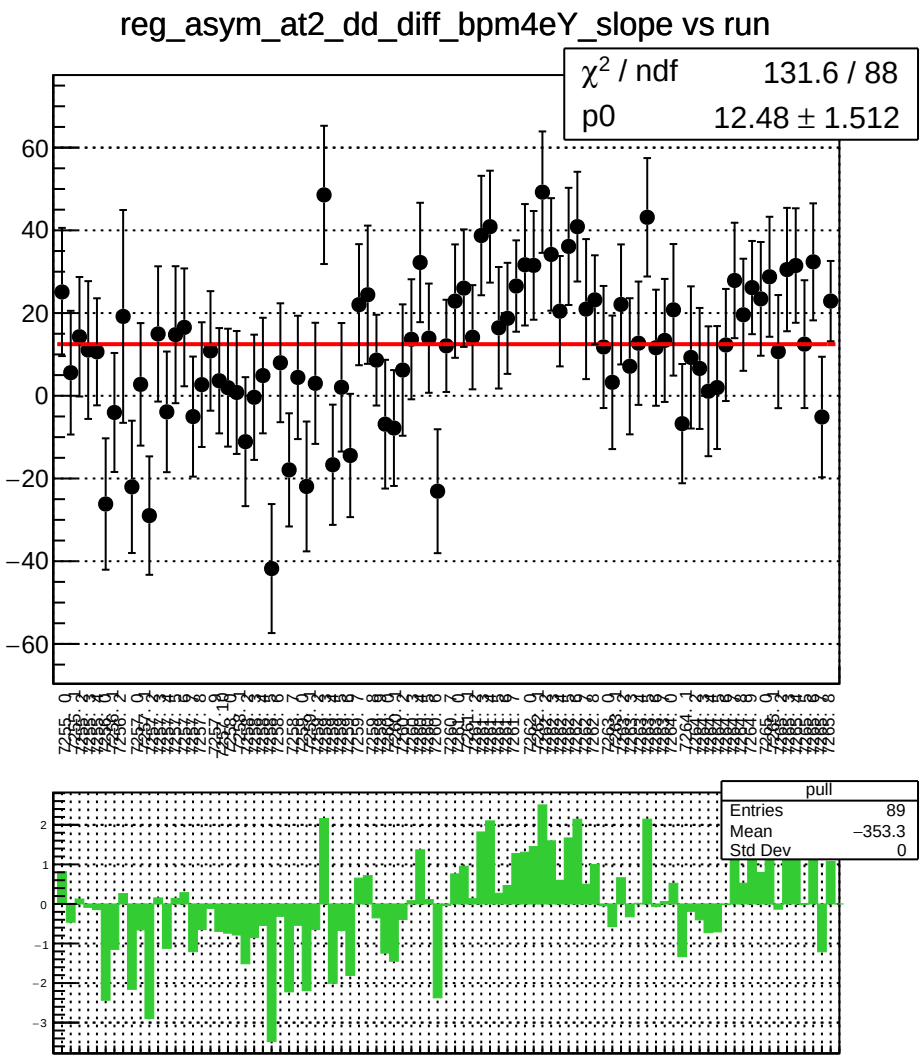

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 77.99 / 88
p0 −242.1 ± 0.338
pull
Entries 89
Mean −1.226e+04
Std Dev 0
pull1D
Entries 89
Mean −0.00155
Std Dev 0.9361

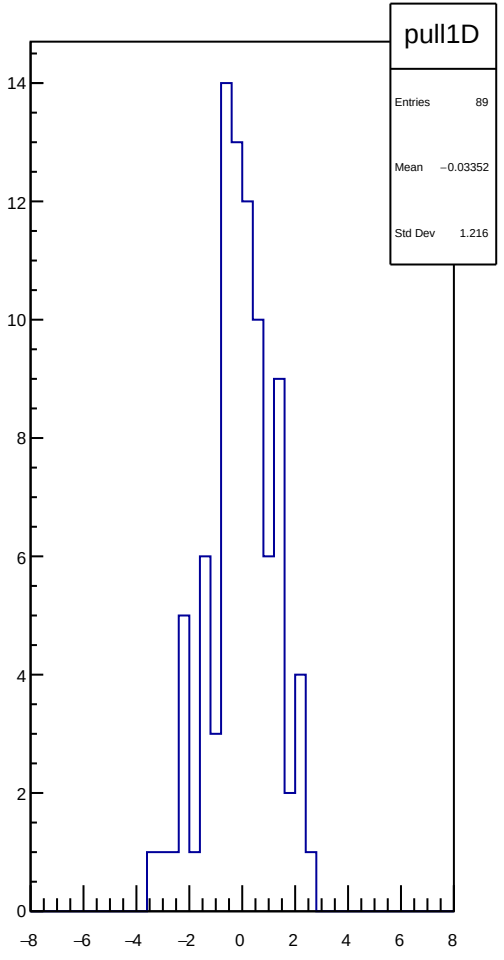

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 132.3 / 88
p0 1.723 ± 1.633
pull
Entries 89
Mean 24.45
Std Dev 34.58
pull1D
Entries 89
Mean −0.07908
Std Dev 1.216

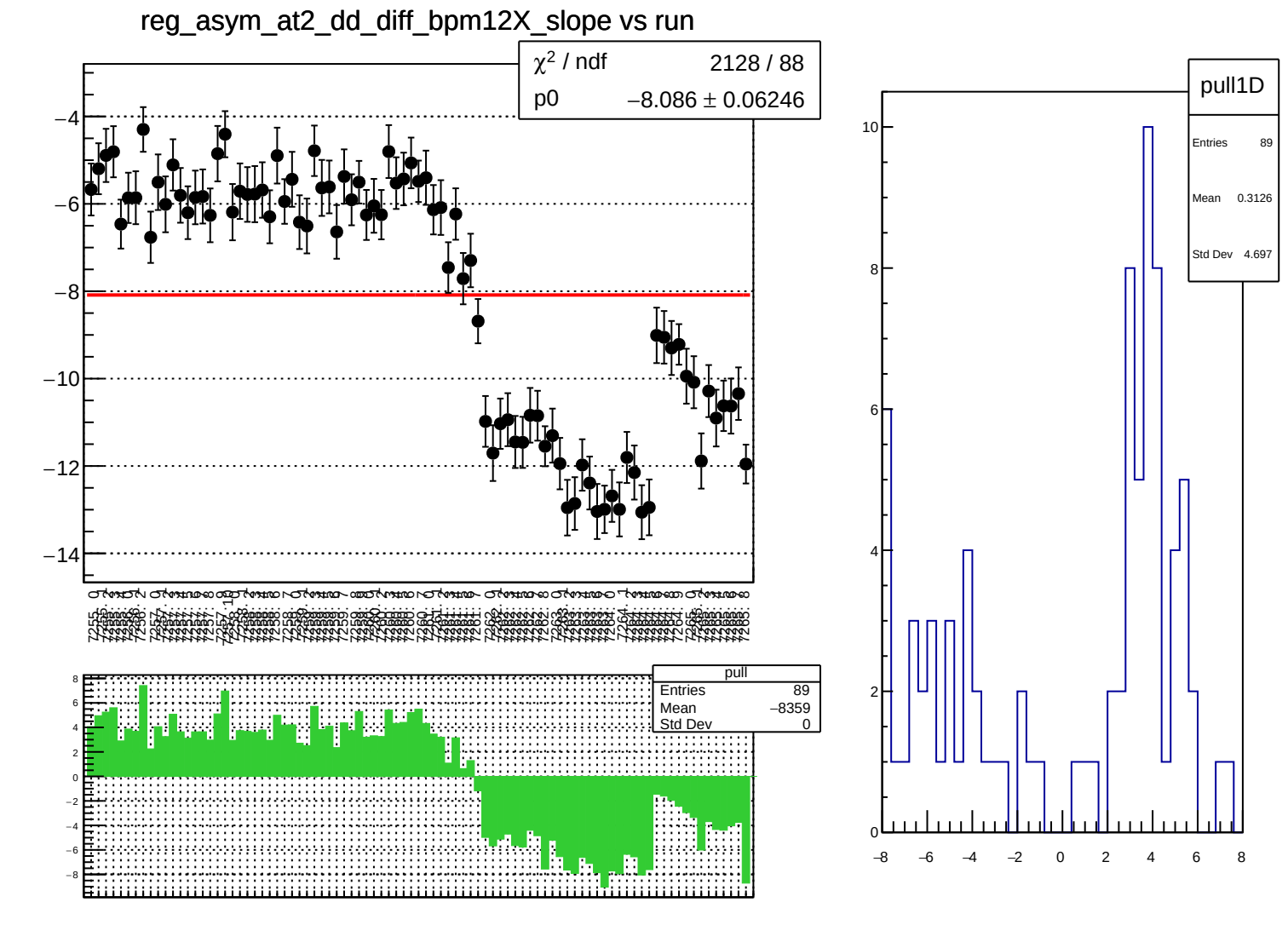

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 112 / 88
p0 −8.527 ± 1.44
pull
Entries 89
Mean −337.1
Std Dev 0

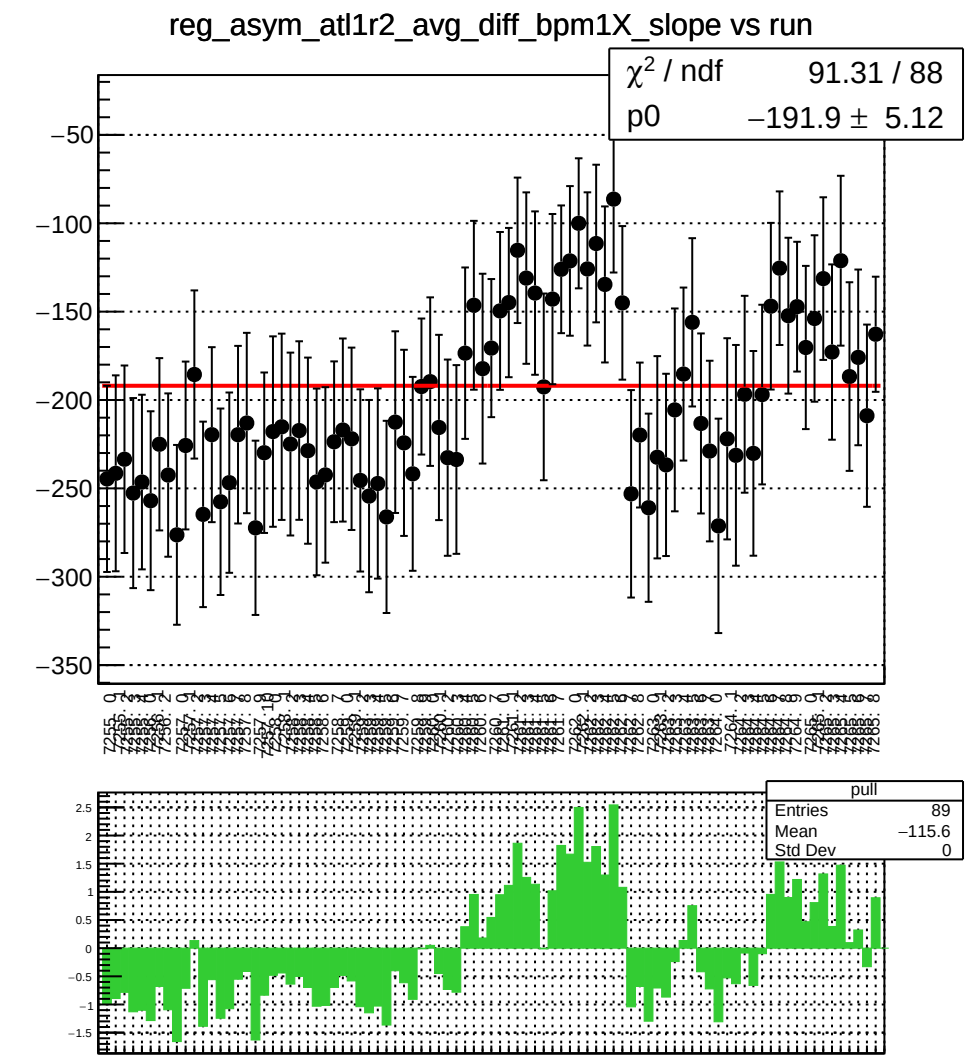

pull1D
Entries 89
Mean 0.02703
Std Dev 1.121

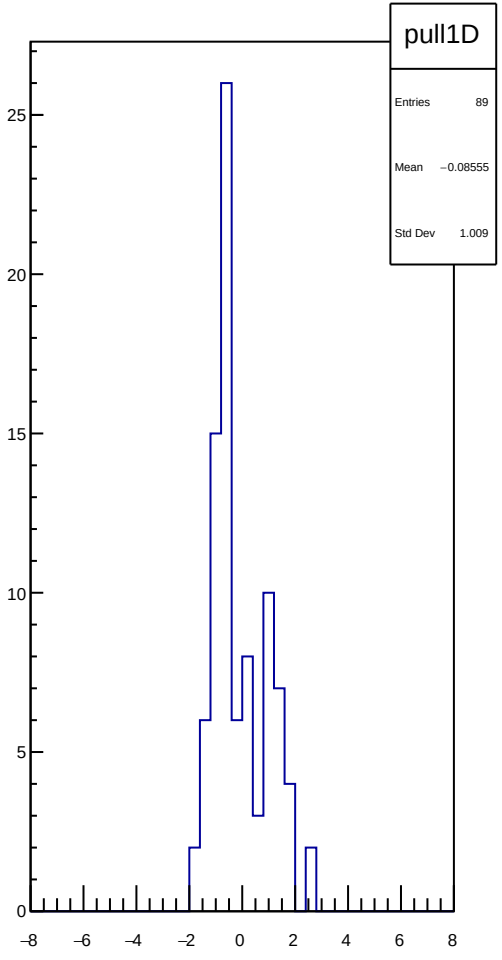

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 132.2 / 88
p0 73.35 ± 1.768
pull
Entries 89
Mean 21.19
Std Dev 32.31
pull1D
Entries 89
Mean 0.08467
Std Dev 1.216

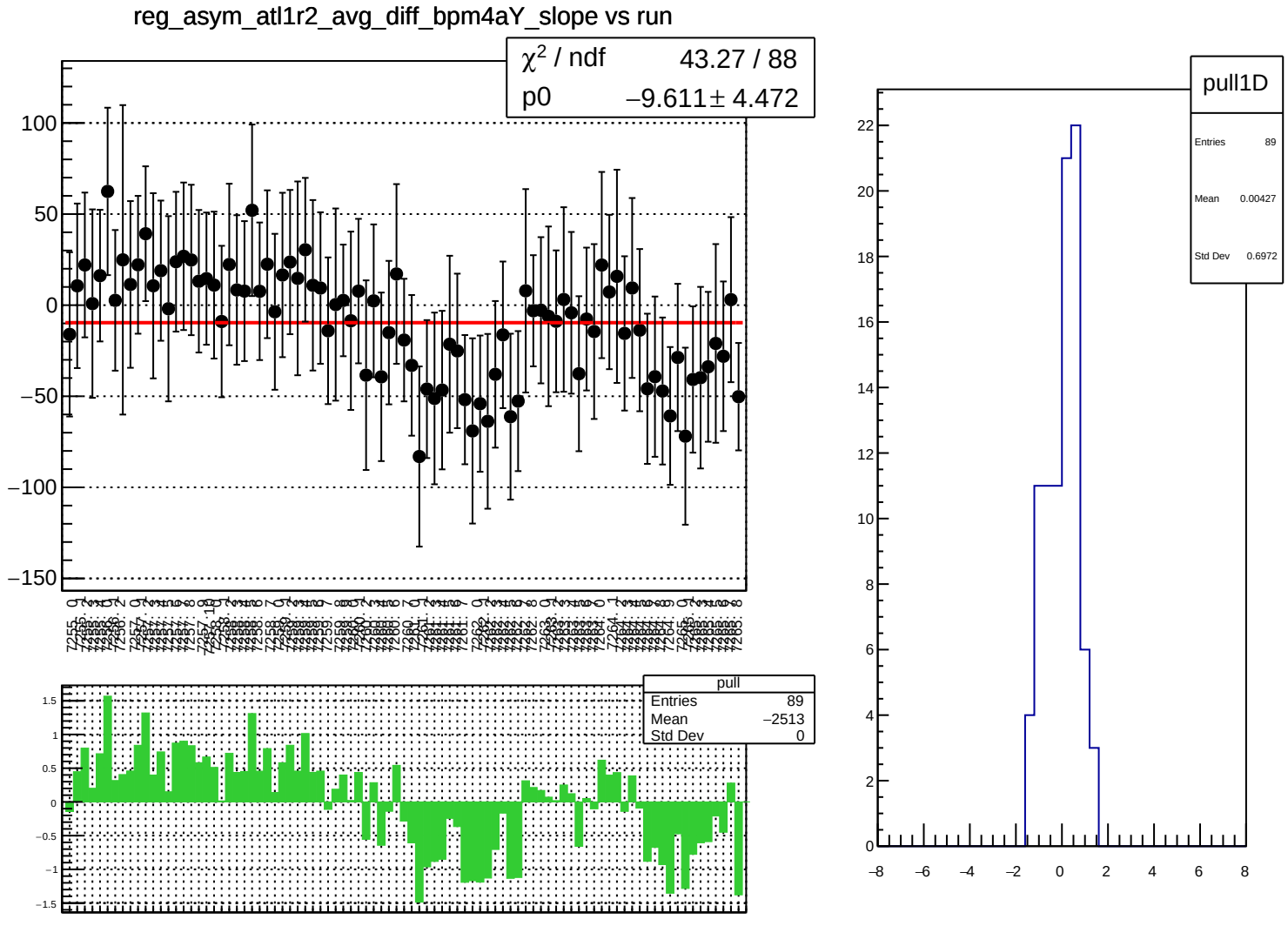

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 131.6 / 88
p0 12.48 ± 1.512
pull
Entries 89
Mean −353.3
Std Dev 0

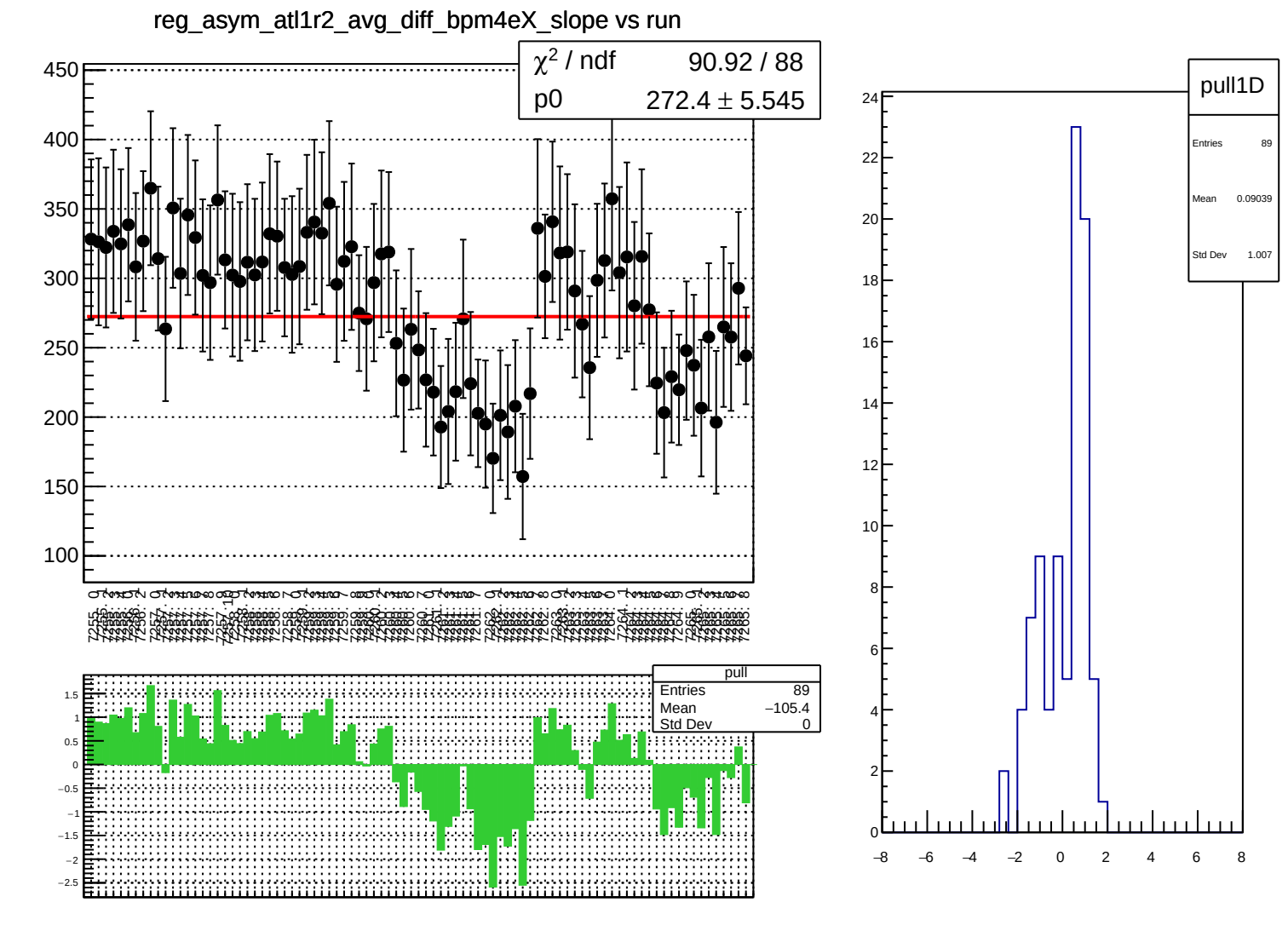

pull1D
Entries 89
Mean −0.03352
Std Dev 1.216

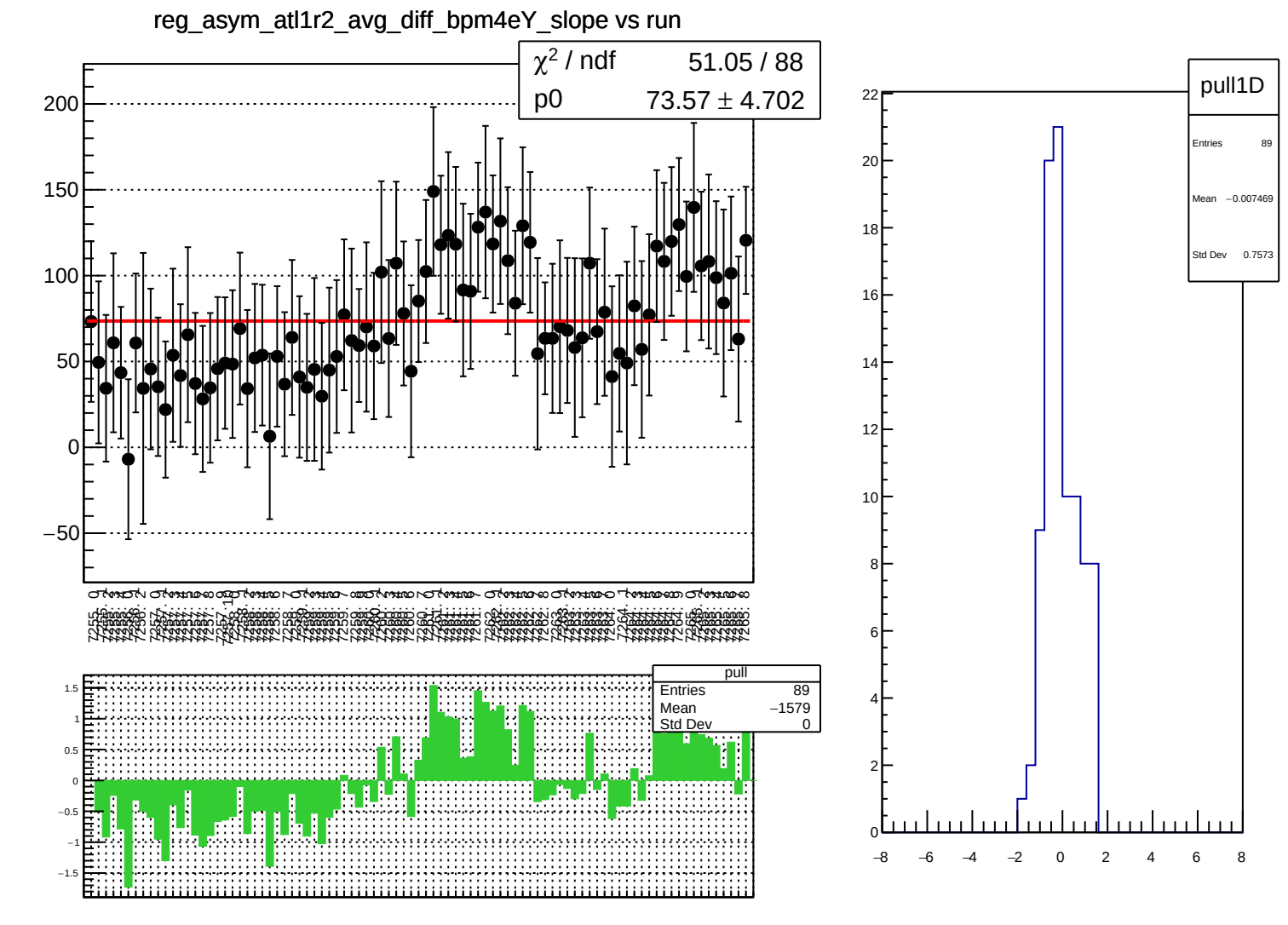

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 2128 / 88
p0 −8.086 ± 0.06246
pull
Entries 89
Mean −8359
Std Dev 0
pull1D
Entries 89
Mean 0.3126
Std Dev 4.697

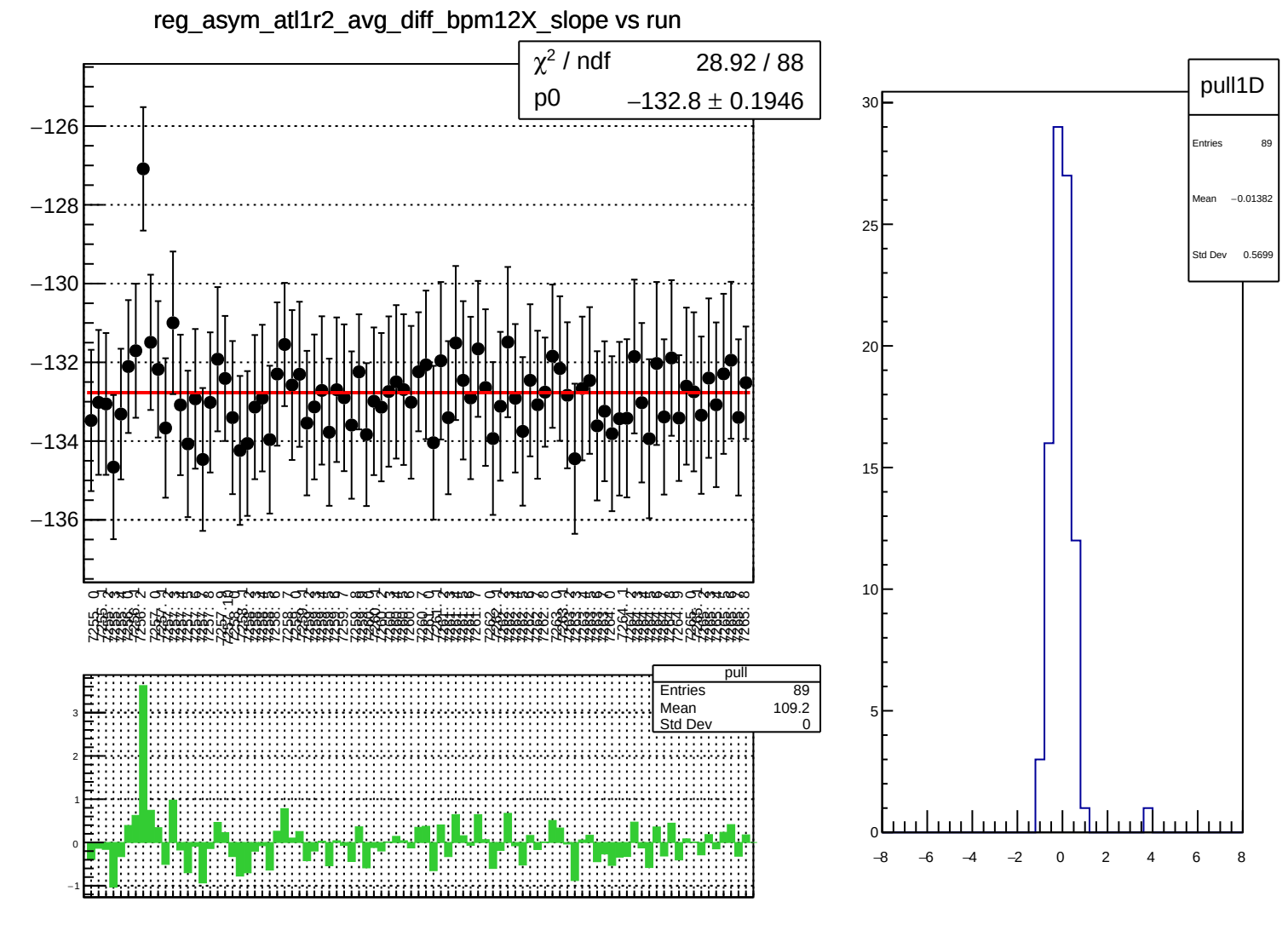

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 91.31 / 88
p0 −191.9 ± 5.12
pull
Entries 89
Mean −115.6
Std Dev 0

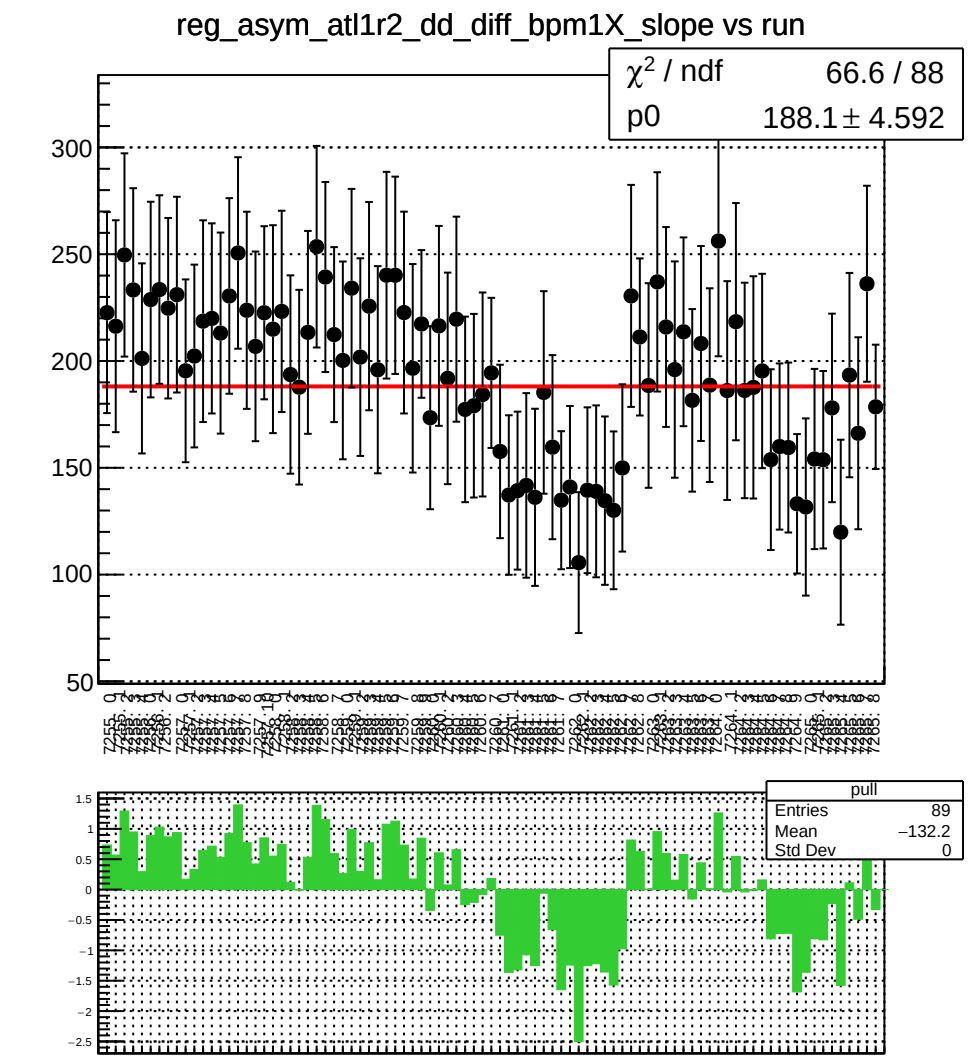

pull1D
Entries 89
Mean −0.08555
Std Dev 1.009

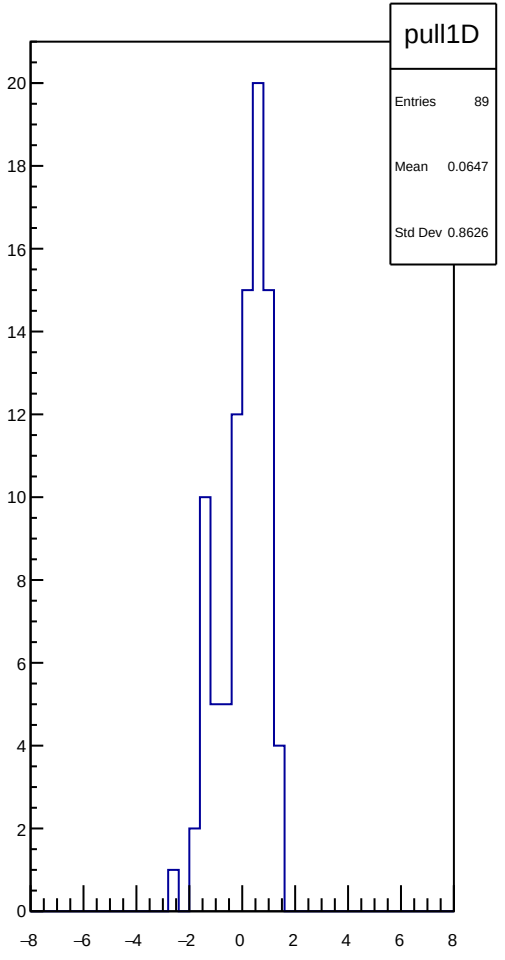

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.27 / 88
p0 −9.611 ± 4.472
pull
Entries 89
Mean −2513
Std Dev 0
pull1D
Entries 89
Mean 0.00427
Std Dev 0.6972

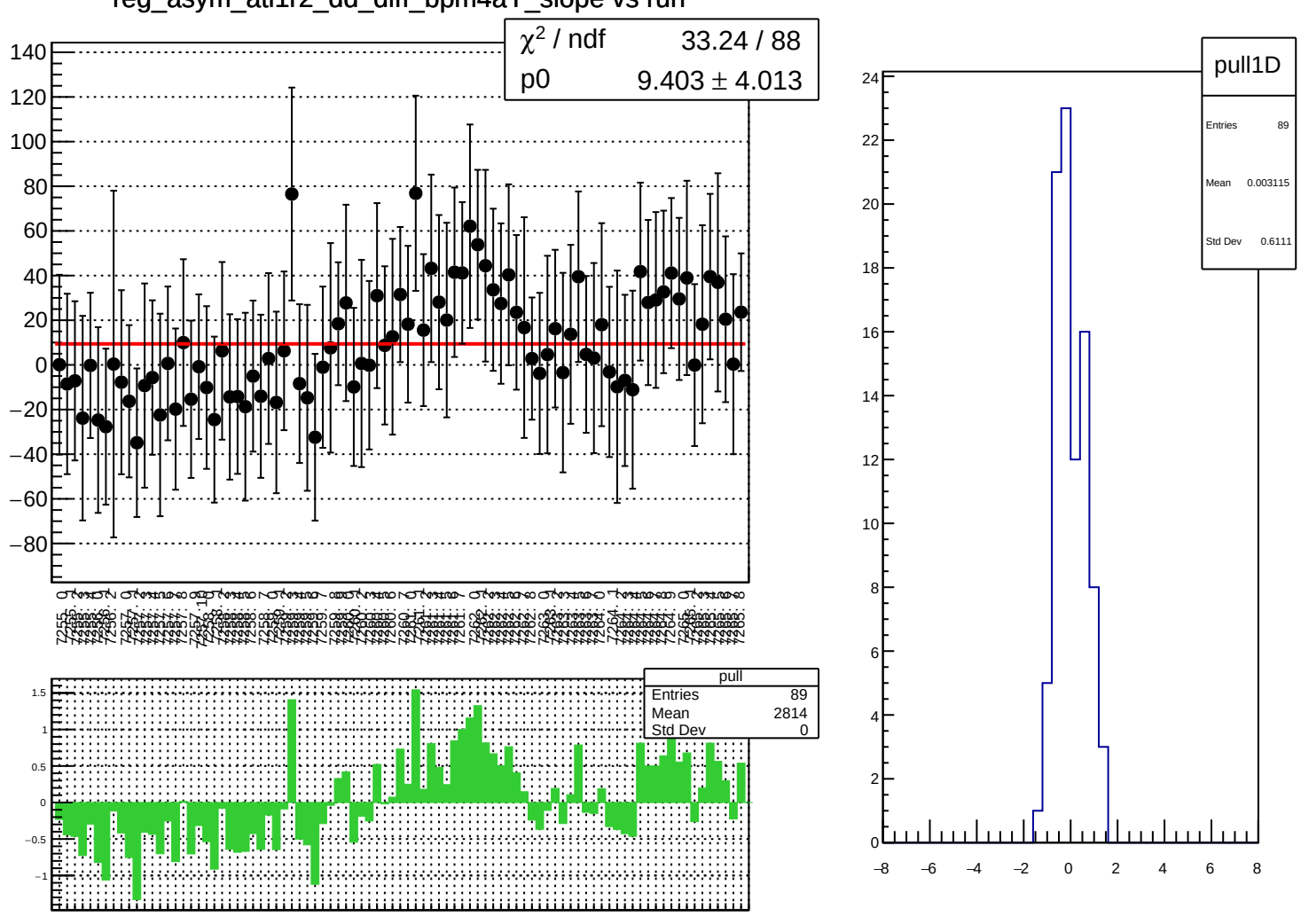

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 90.92 / 88
p0 272.4 ± 5.545
pull
Entries 89
Mean −105.4
Std Dev 0
pull1D
Entries 89
Mean 0.09039
Std Dev 1.007

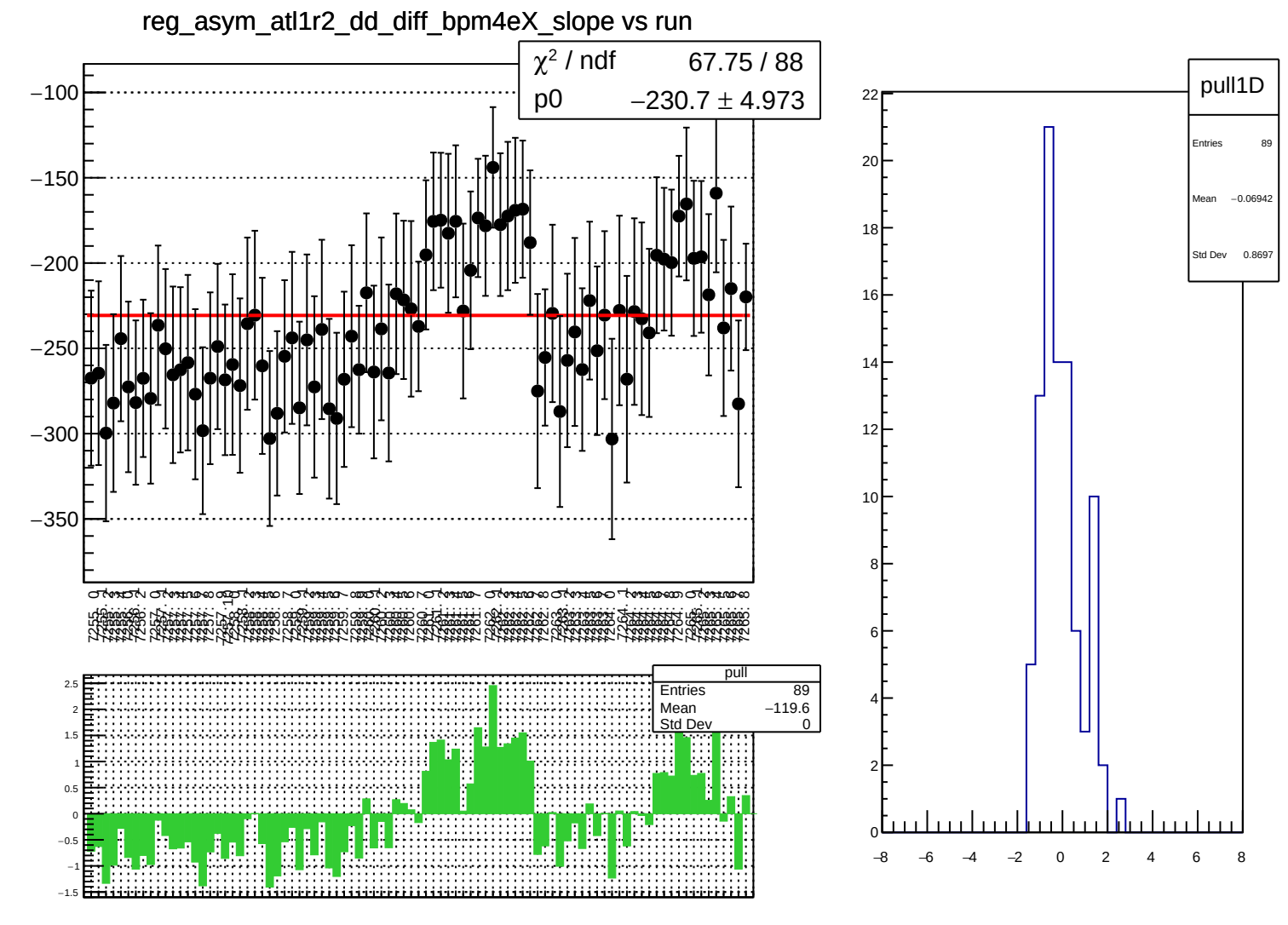

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.05 / 88
p0 73.57 ± 4.702
pull
Entries 89
Mean −1579
Std Dev 0
pull1D
Entries 89
Mean −0.007469
Std Dev 0.7573

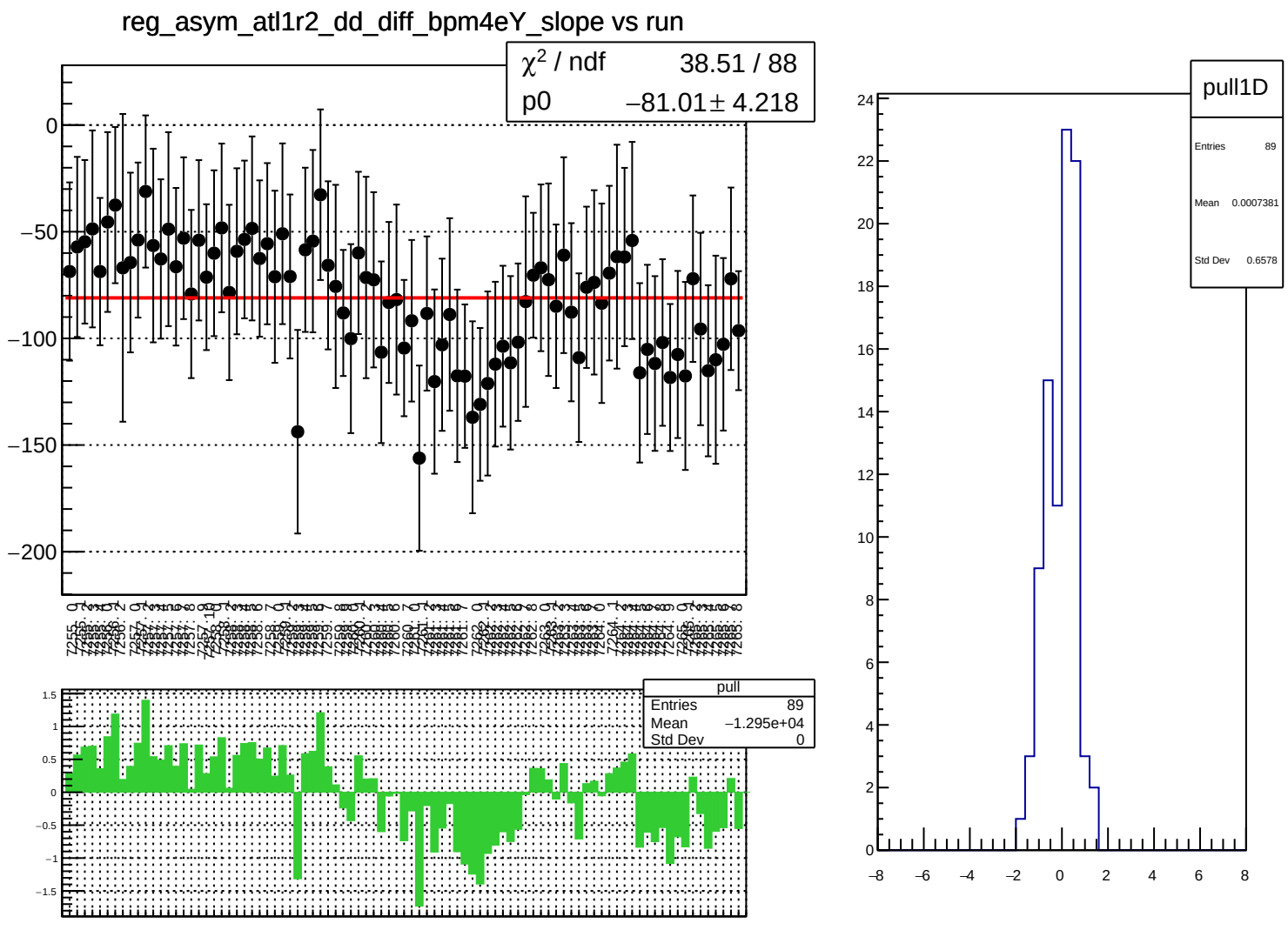

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 28.92 / 88
p0 −132.8 ± 0.1946
−126
−128
−130
−132
−134
−136
pull
Entries 89
Mean 109.2
Std Dev 0
3
2
1
0
−1
pull1D
Entries 89
Mean −0.01382
Std Dev 0.5699
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

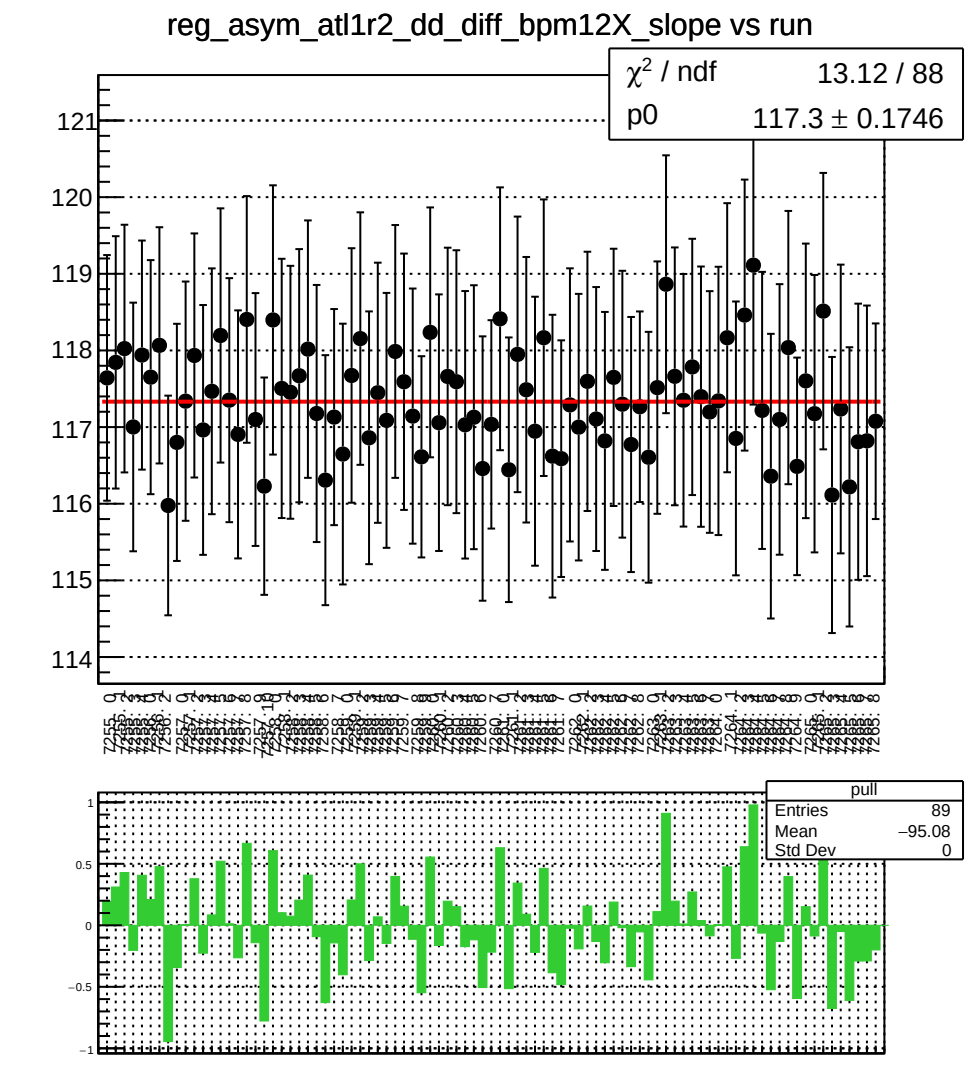

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 66.6 / 88
p0 188.1 ± 4.592
pull
Entries 89
Mean −132.2
Std Dev 0

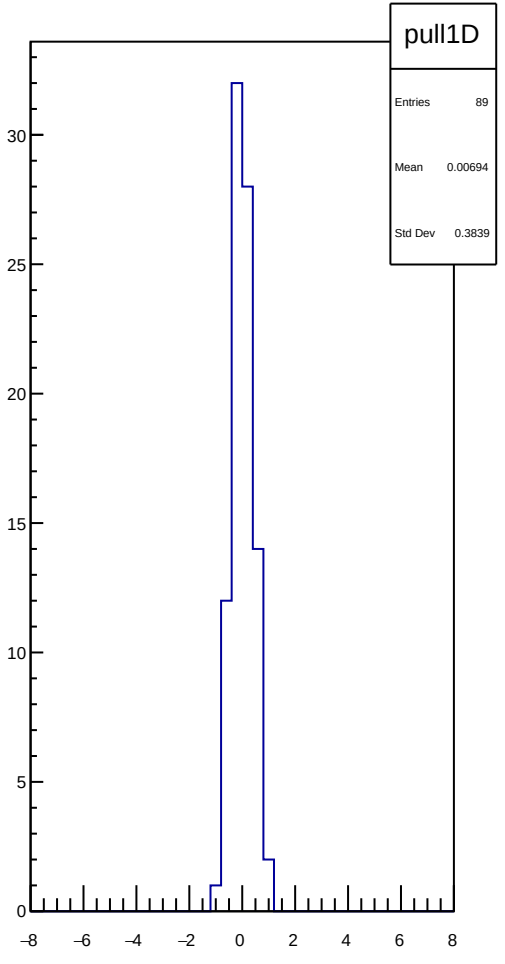

pull1D
Entries 89
Mean 0.0647
Std Dev 0.8626

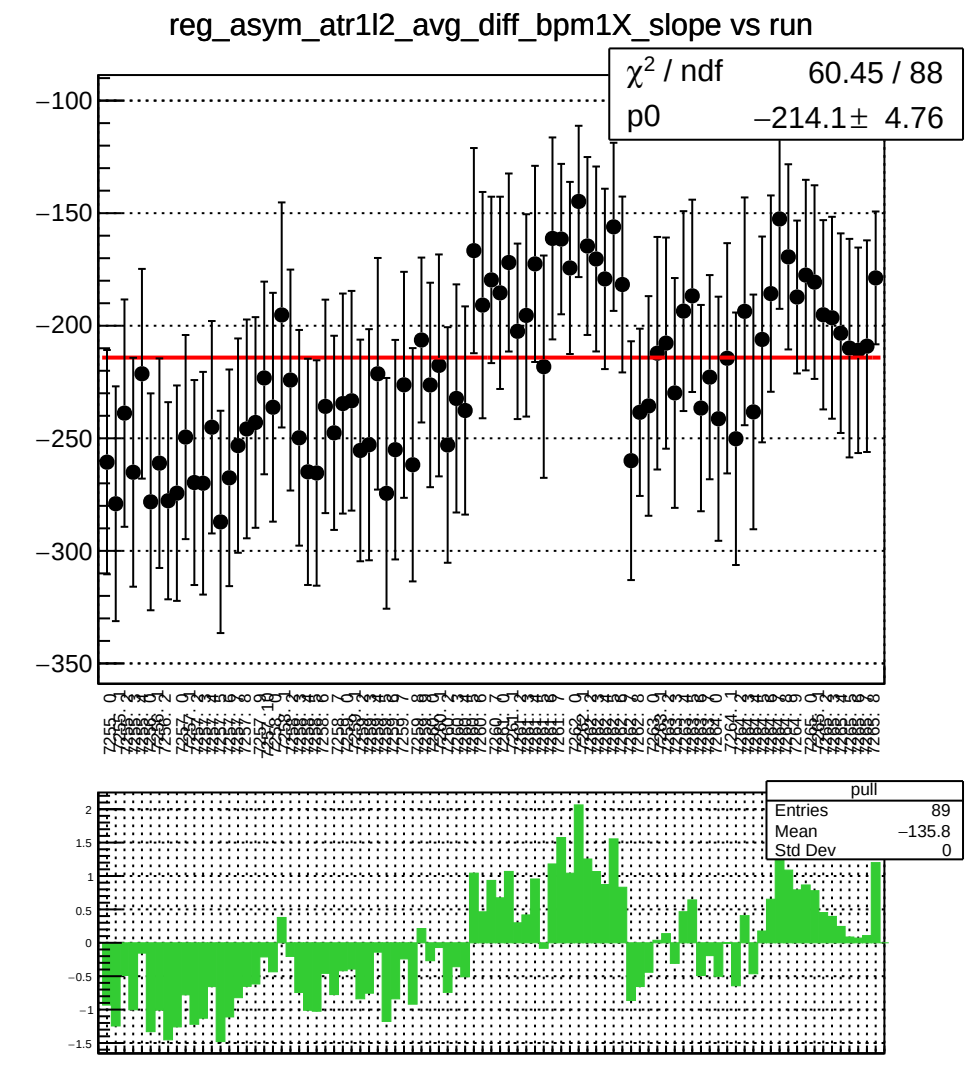

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.24 / 88
p0 9.403 ± 4.013
pull
Entries 89
Mean 2814
Std Dev 0
pull1D
Entries 89
Mean 0.003115
Std Dev 0.6111

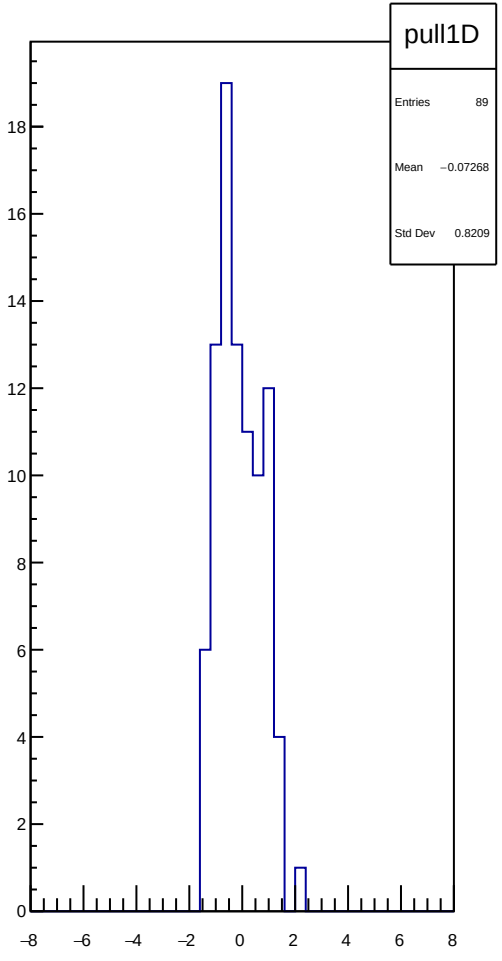

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.75 / 88
p0 −230.7 ± 4.973
pull
Entries 89
Mean −119.6
Std Dev 0
pull1D
Entries 89
Mean −0.06942
Std Dev 0.8697

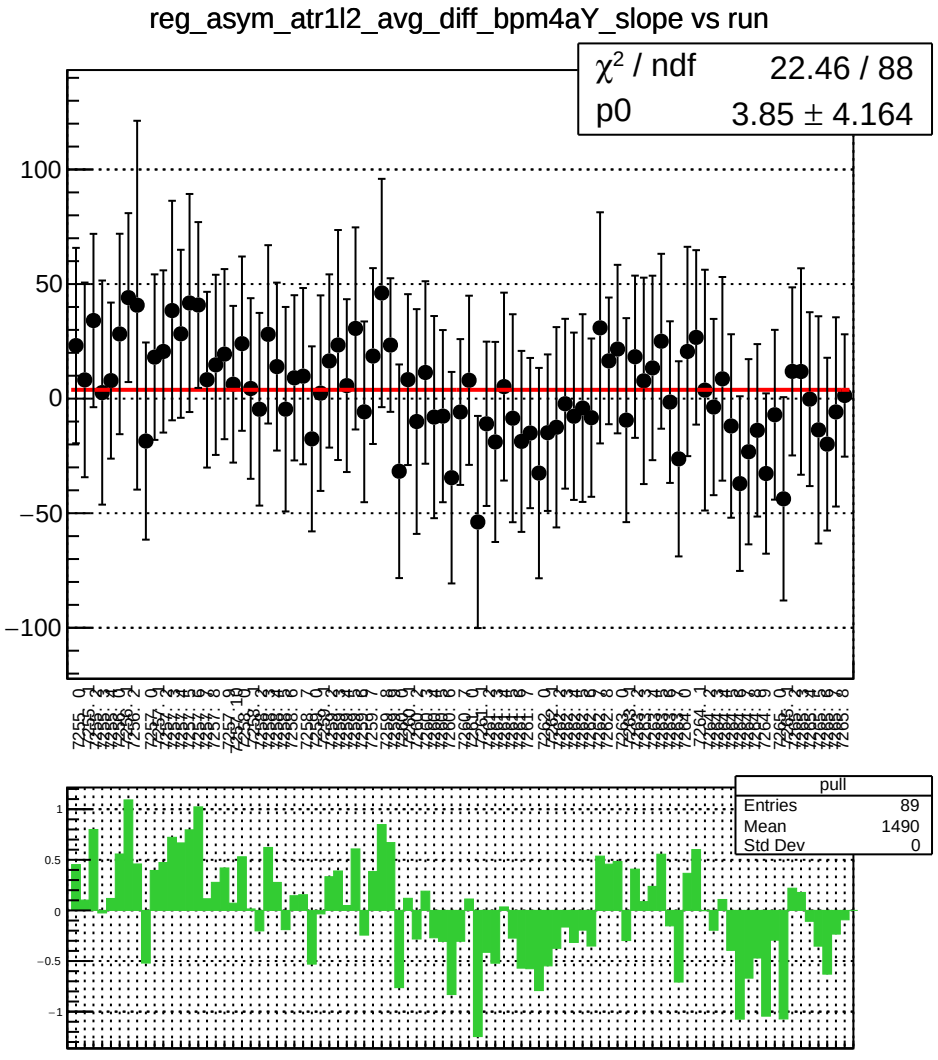

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.51 / 88
p0 −81.01 ± 4.218
pull
Entries 89
Mean −1.295e+04
Std Dev 0
pull1D
Entries 89
Mean 0.0007381
Std Dev 0.6578

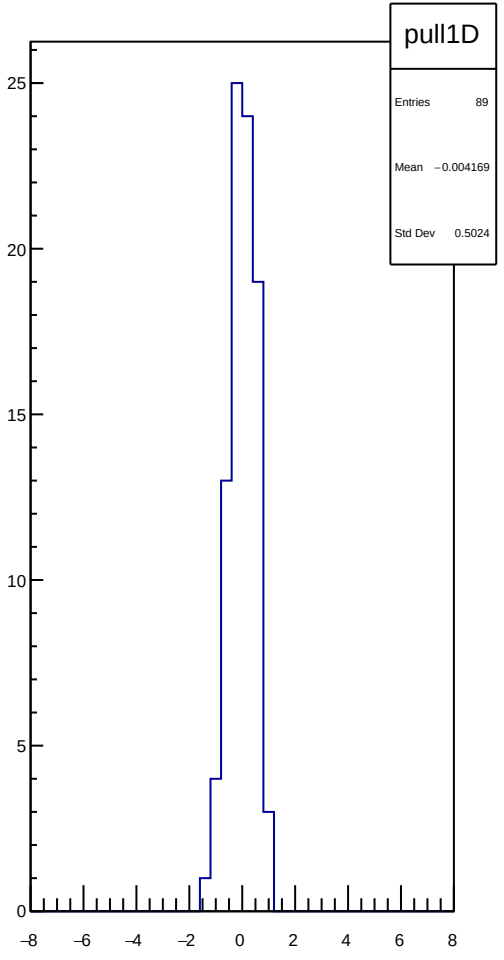

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 13.12 / 88
p0 117.3 ± 0.1746
pull
Entries 89
Mean −95.08
Std Dev 0

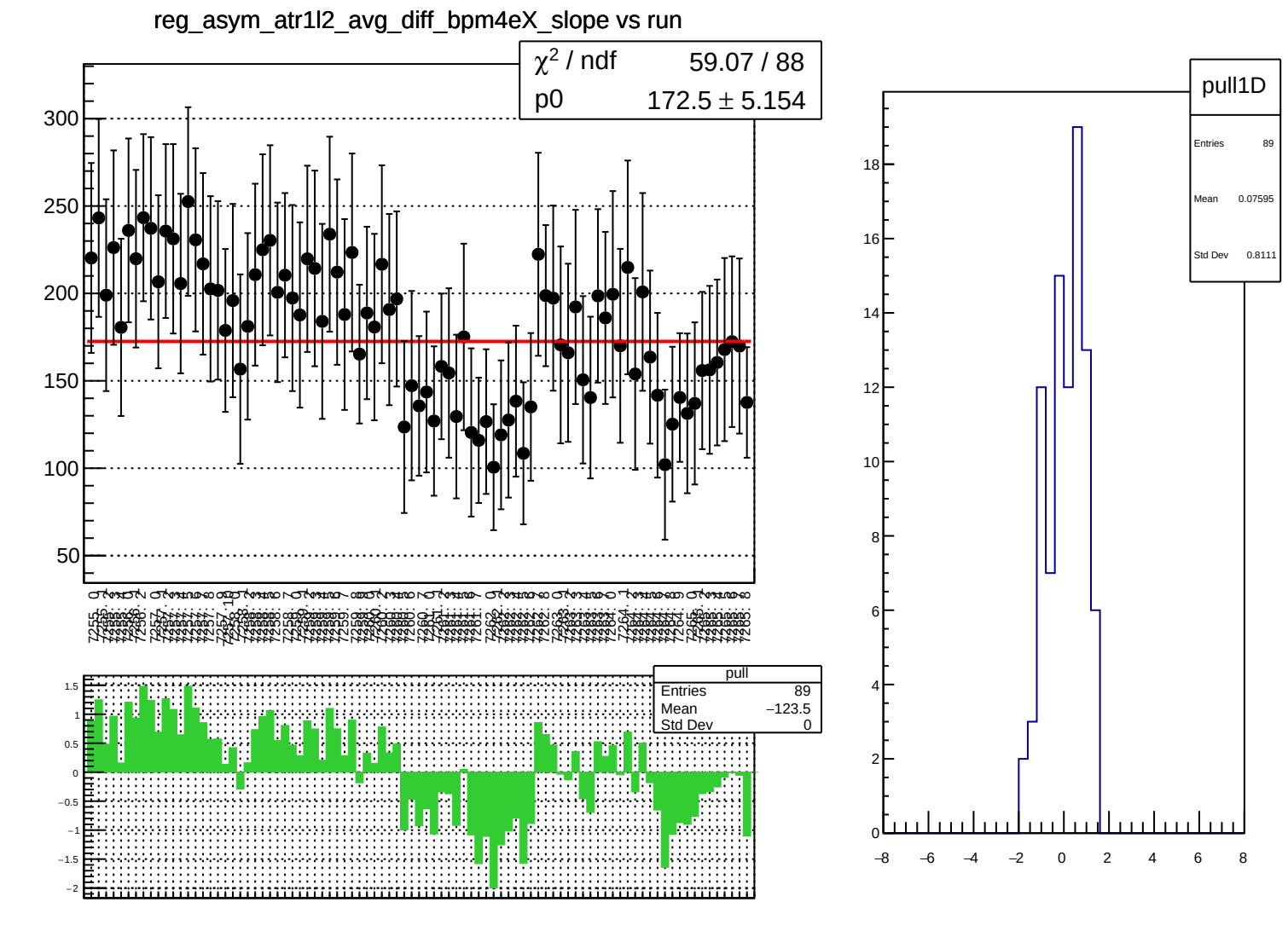

pull1D
Entries 89
Mean 0.00694
Std Dev 0.3839

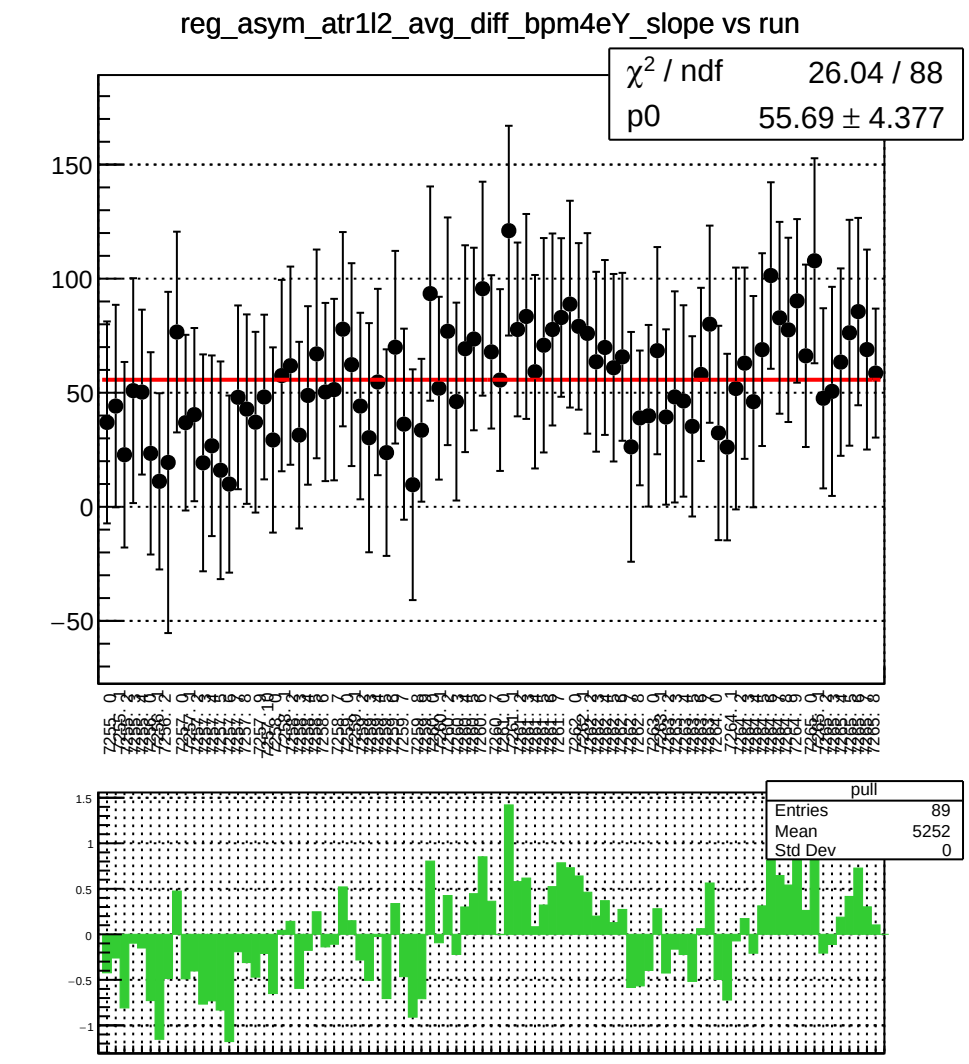

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 60.45 / 88
p0 −214.1± 4.76
pull
Entries 89
Mean −135.8
Std Dev 0

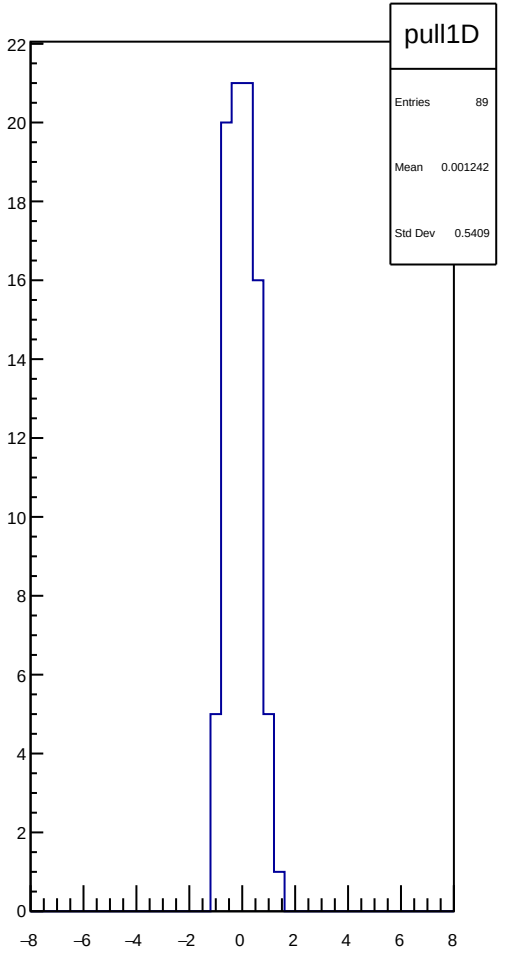

pull1D
Entries 89
Mean −0.07268
Std Dev 0.8209

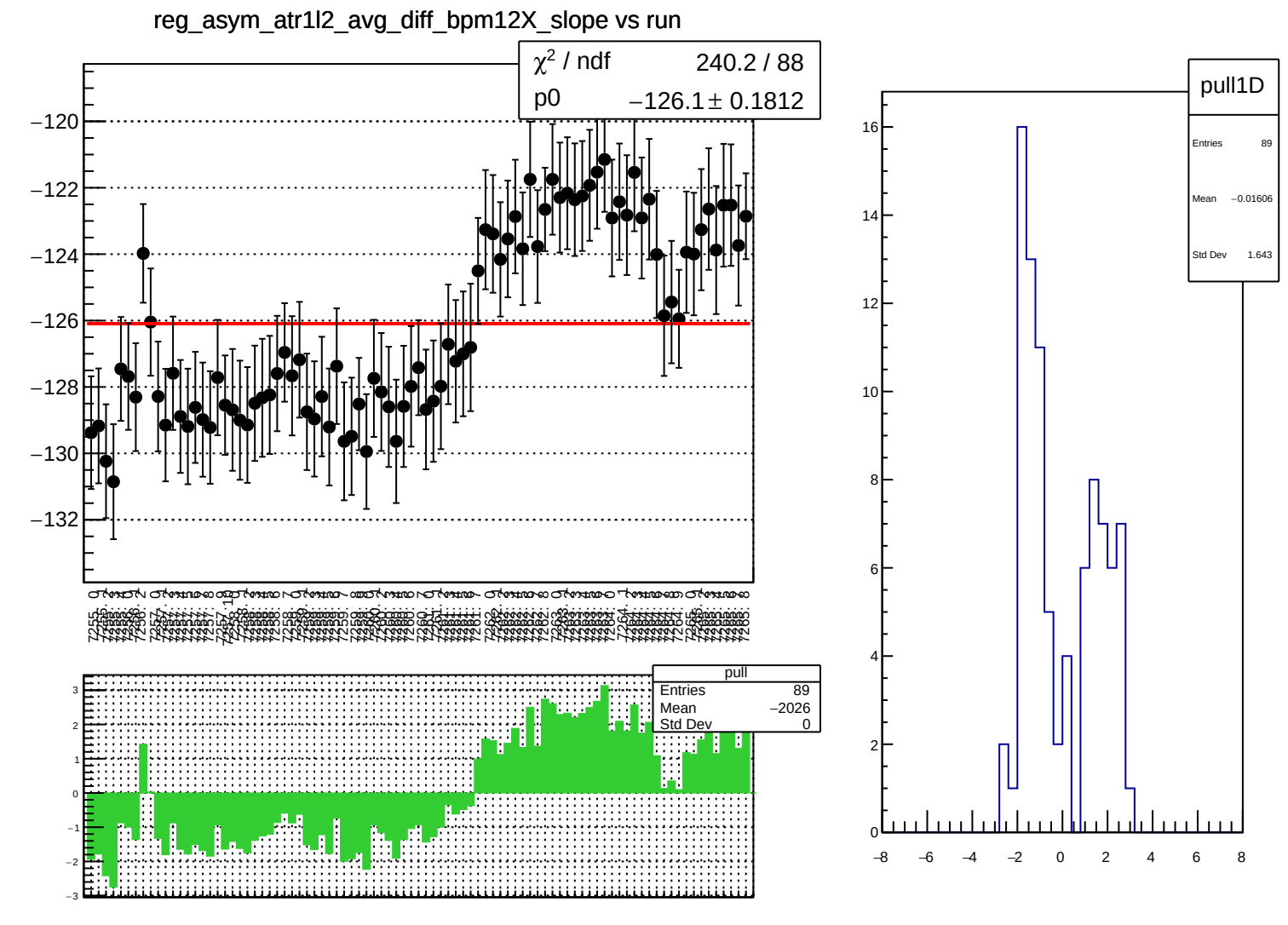

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.46 / 88
p0 3.85 ± 4.164
100
50
0
−50
−100
pull
Entries 89
Mean 1490
Std Dev 0
1
0.5
0
−0.5
−1

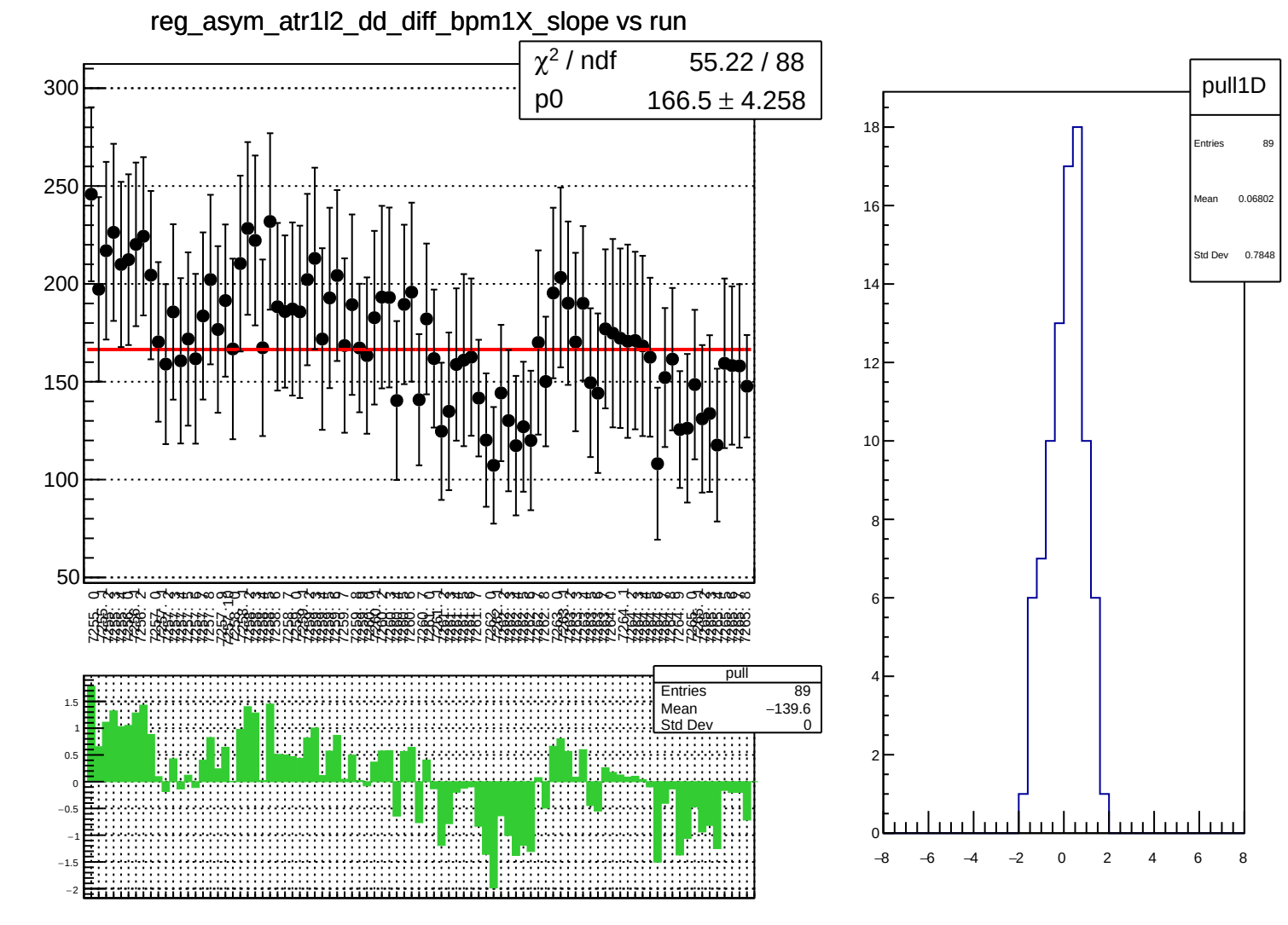

pull1D
Entries 89
Mean −0.004169
Std Dev 0.5024
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

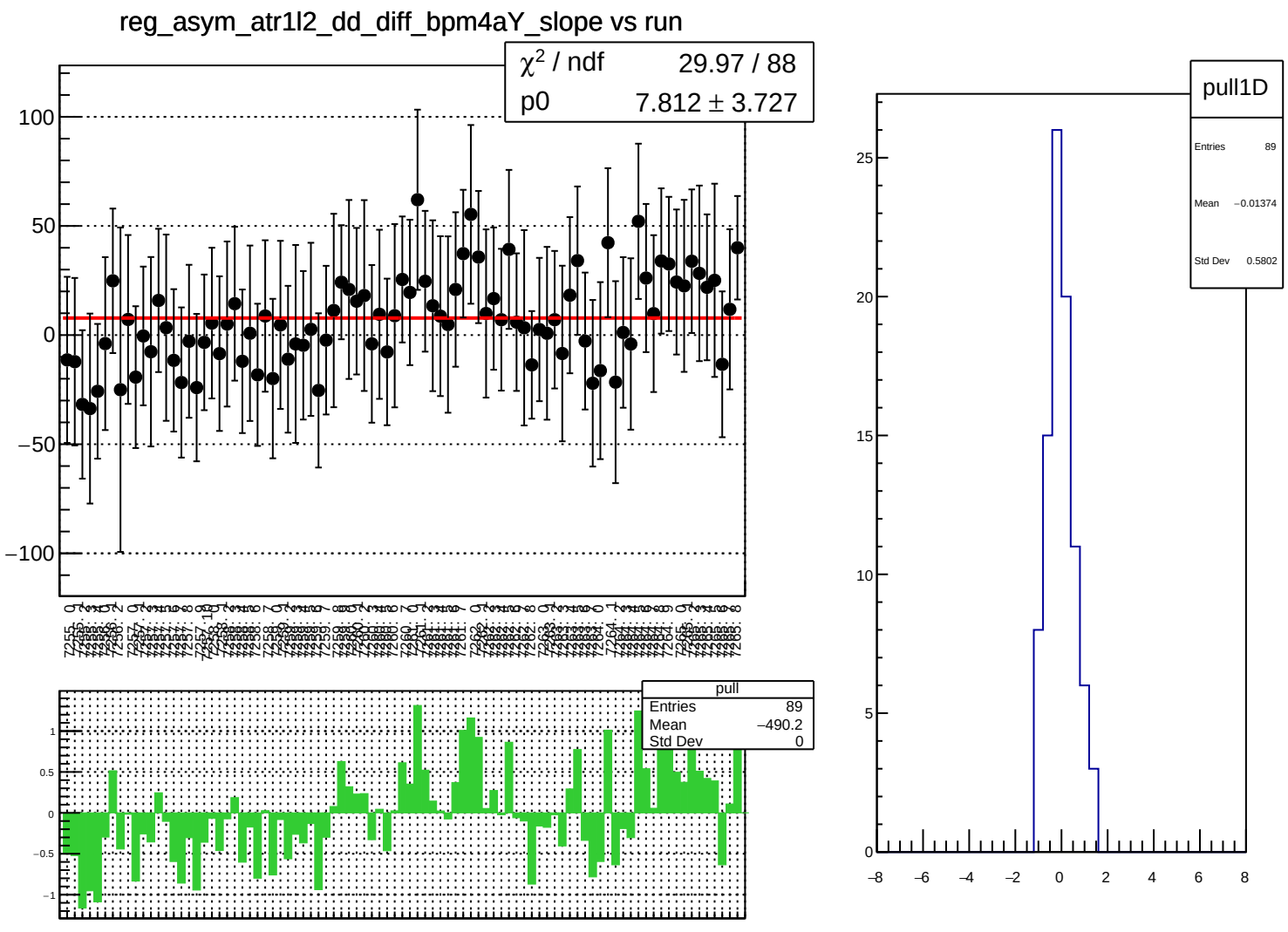

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 59.07 / 88
p0 172.5 ± 5.154
300
250
200
150
100
50
pull
Entries 89
Mean −123.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.07595
Std Dev 0.8111
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

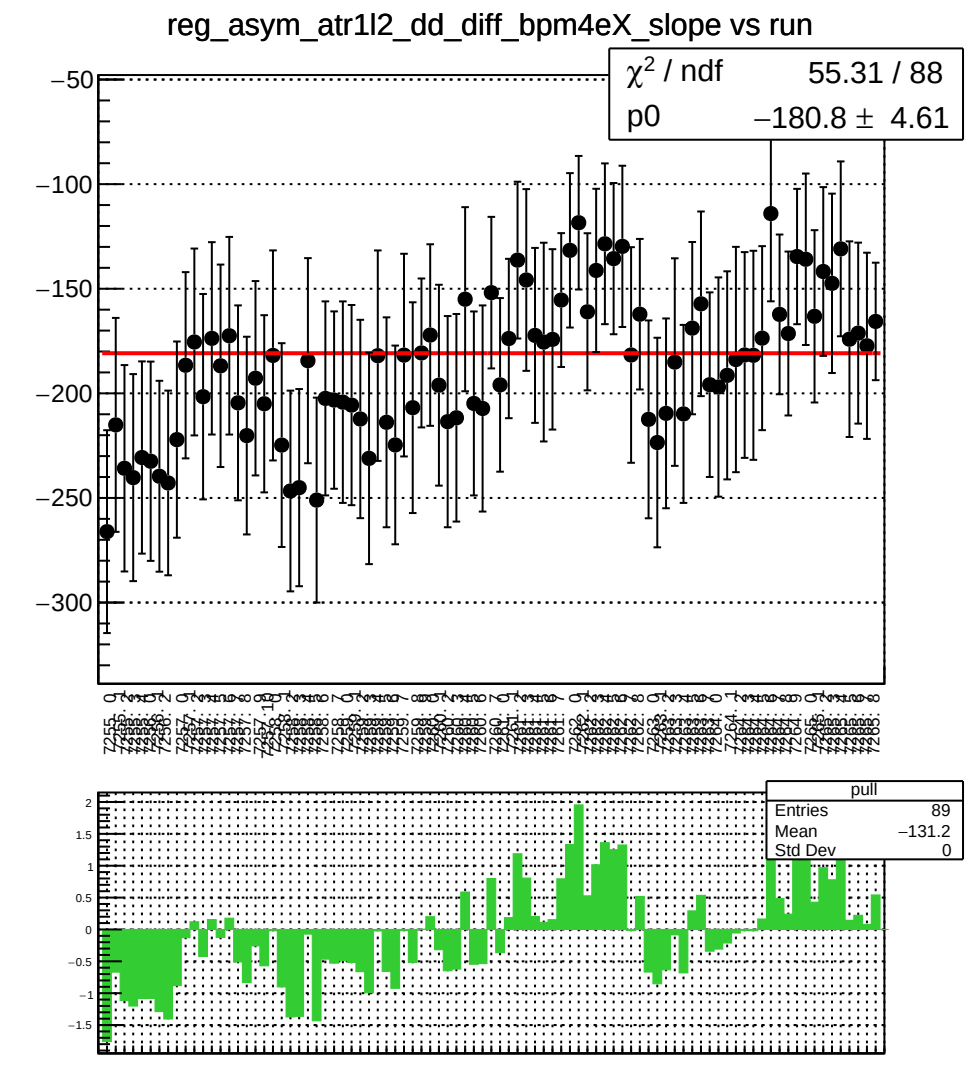

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.04 / 88
p0 55.69 ± 4.377
150
100
50
0
−50
pull
Entries 89
Mean 5252
Std Dev 0
1.5
1
0.5
0
−0.5
−1

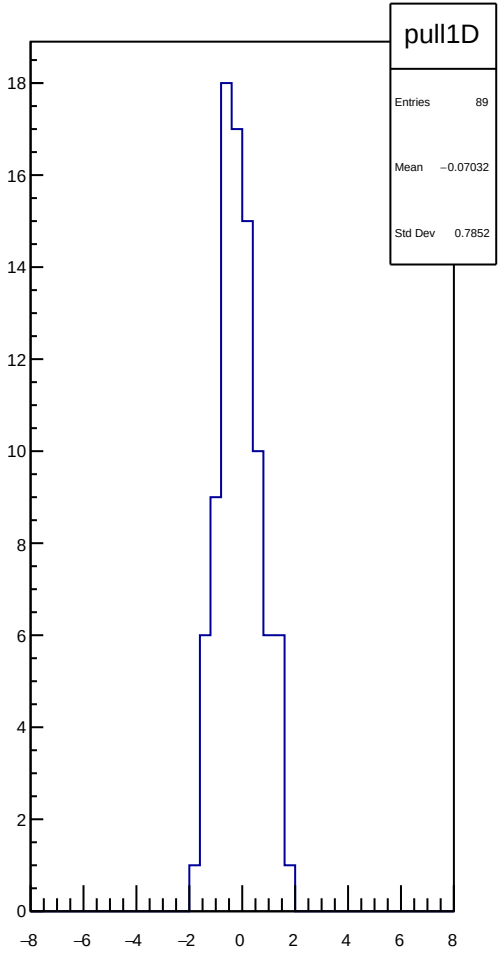

pull1D
Entries 89
Mean 0.001242
Std Dev 0.5409
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

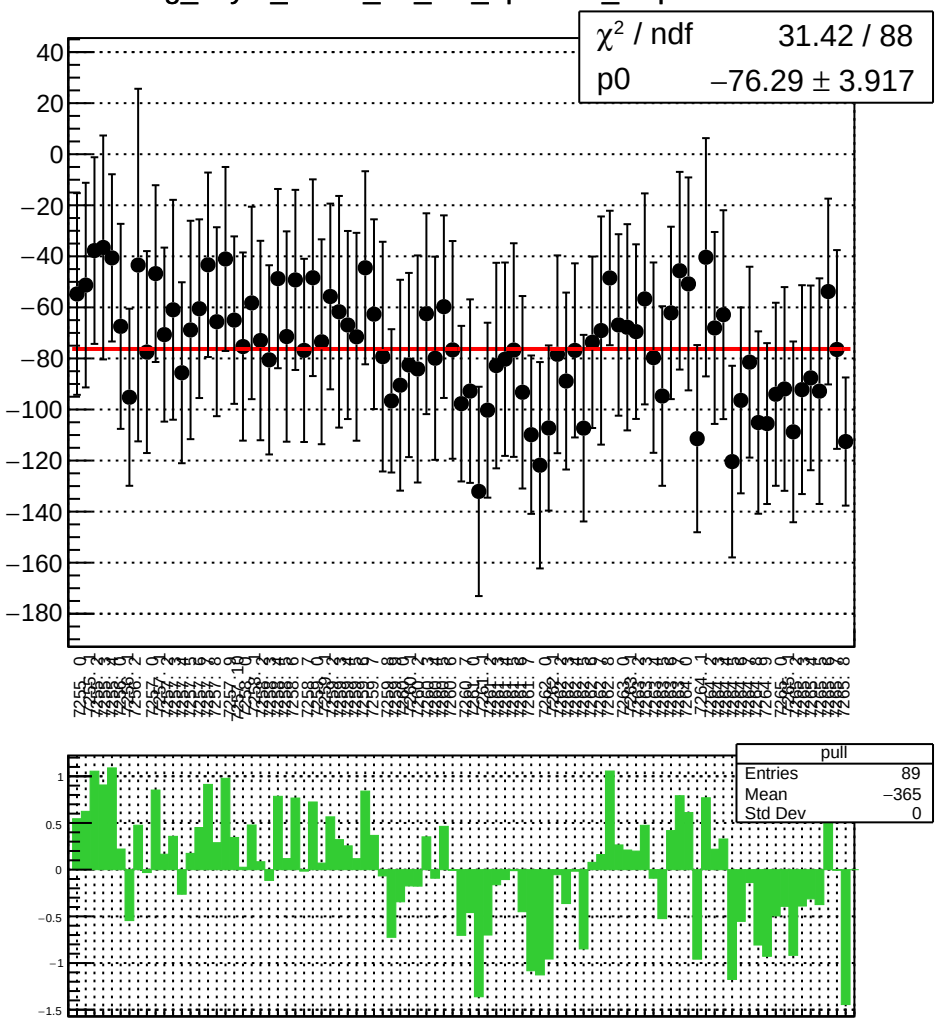

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 240.2 / 88
p0 −126.1 ± 0.1812
−120
−122
−124
−126
−128
−130
−132
pull
Entries 89
Mean −2026
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01606
Std Dev 1.643
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

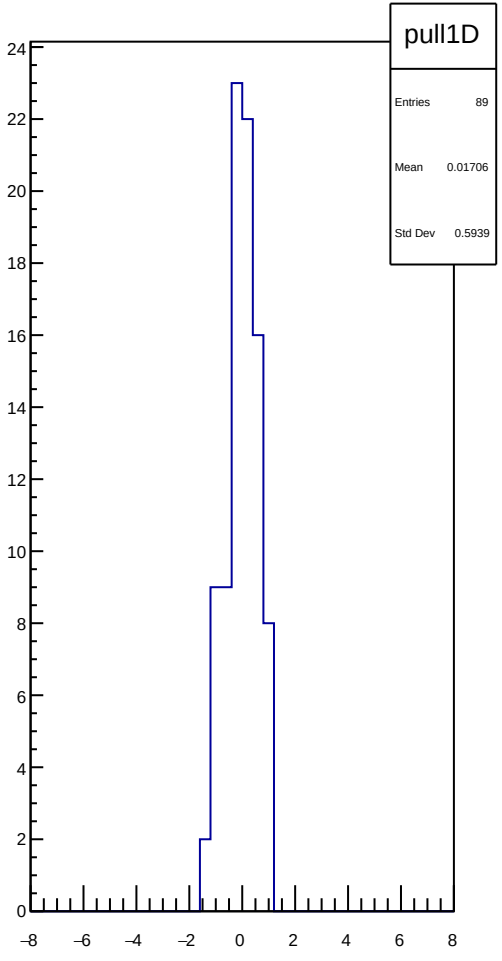

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 55.22 / 88
p0 166.5 ± 4.258
pull
Entries 89
Mean −139.6
Std Dev 0
pull1D
Entries 89
Mean 0.06802
Std Dev 0.7848

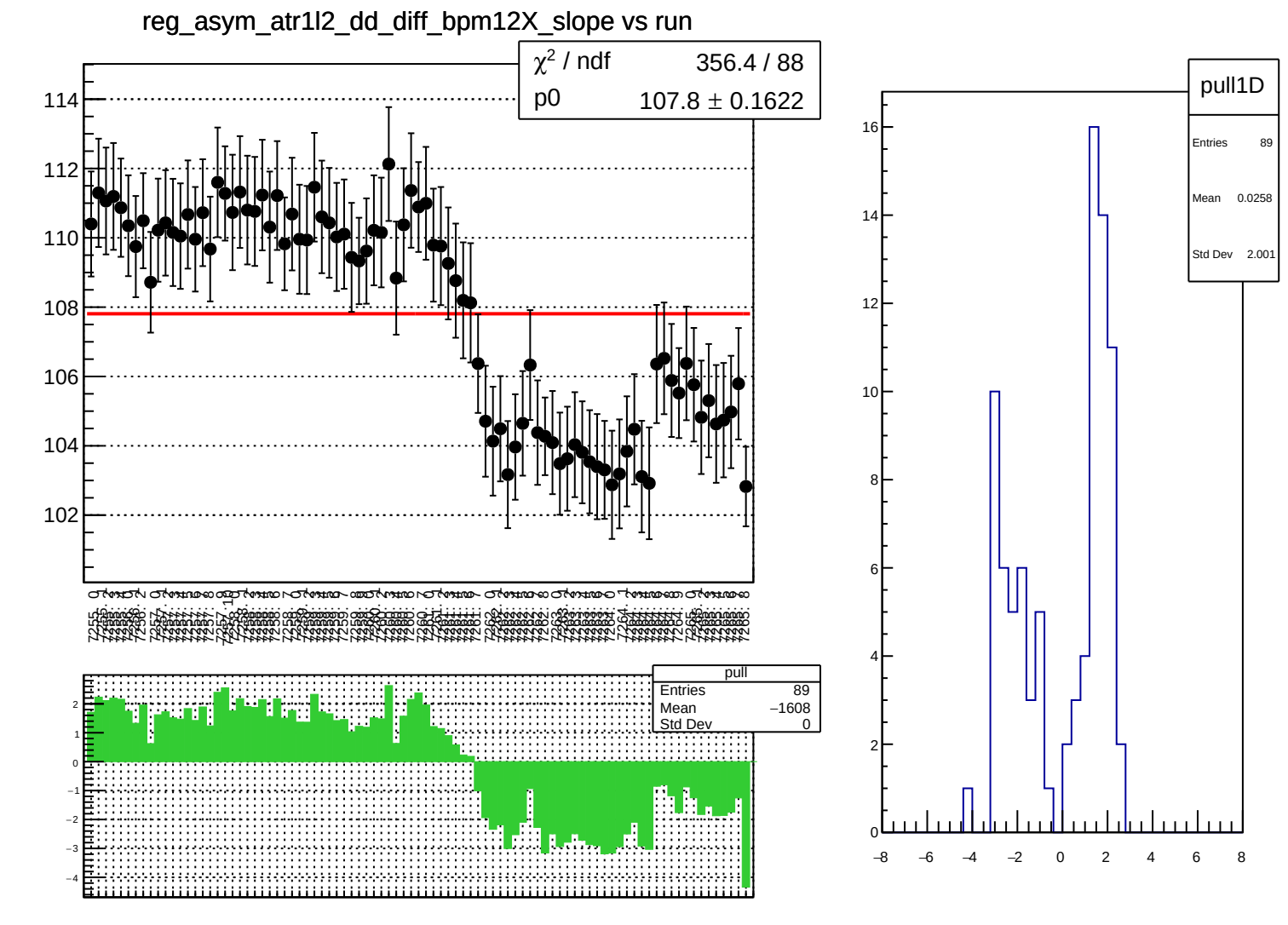

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.97 / 88
p0 7.812 ± 3.727
100
50
0
−50
−100
pull
Entries 89
Mean −490.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.01374
Std Dev 0.5802
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

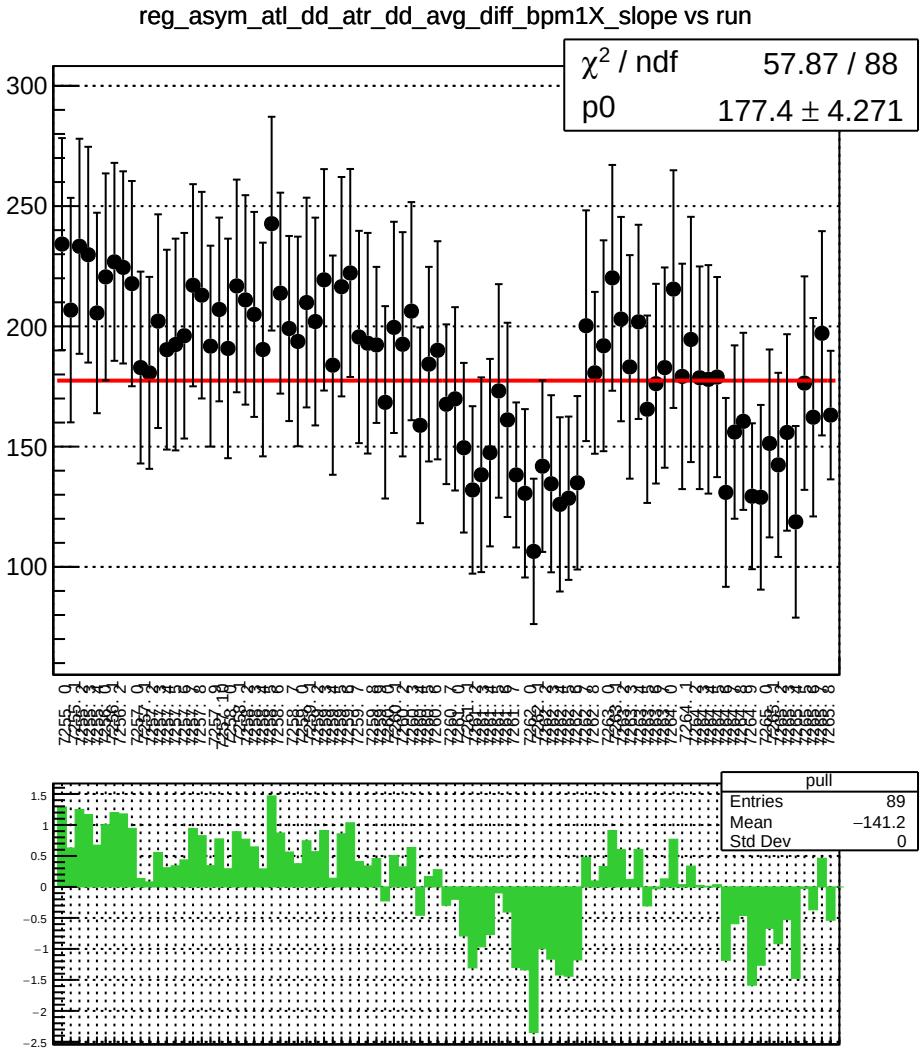

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.31 / 88
p0 −180.8 ± 4.61
pull
Entries 89
Mean −131.2
Std Dev 0

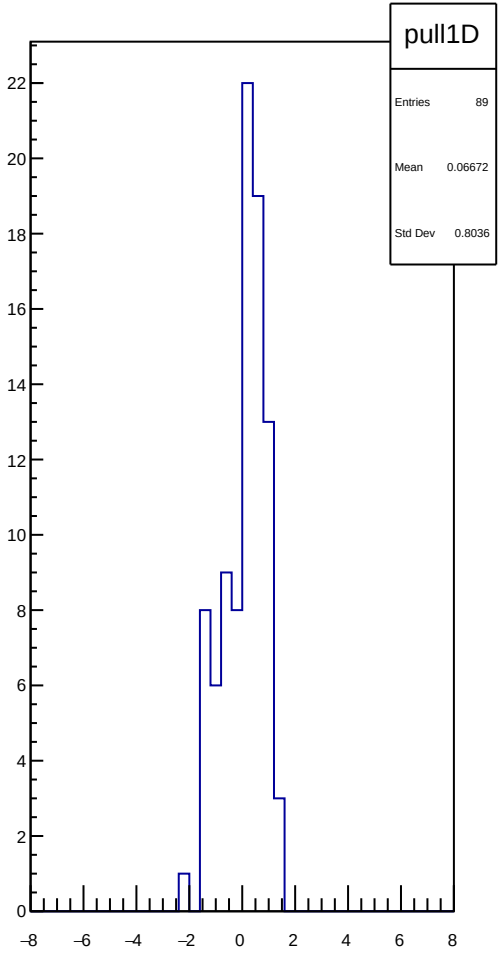

pull1D
Entries 89
Mean −0.07032
Std Dev 0.7852

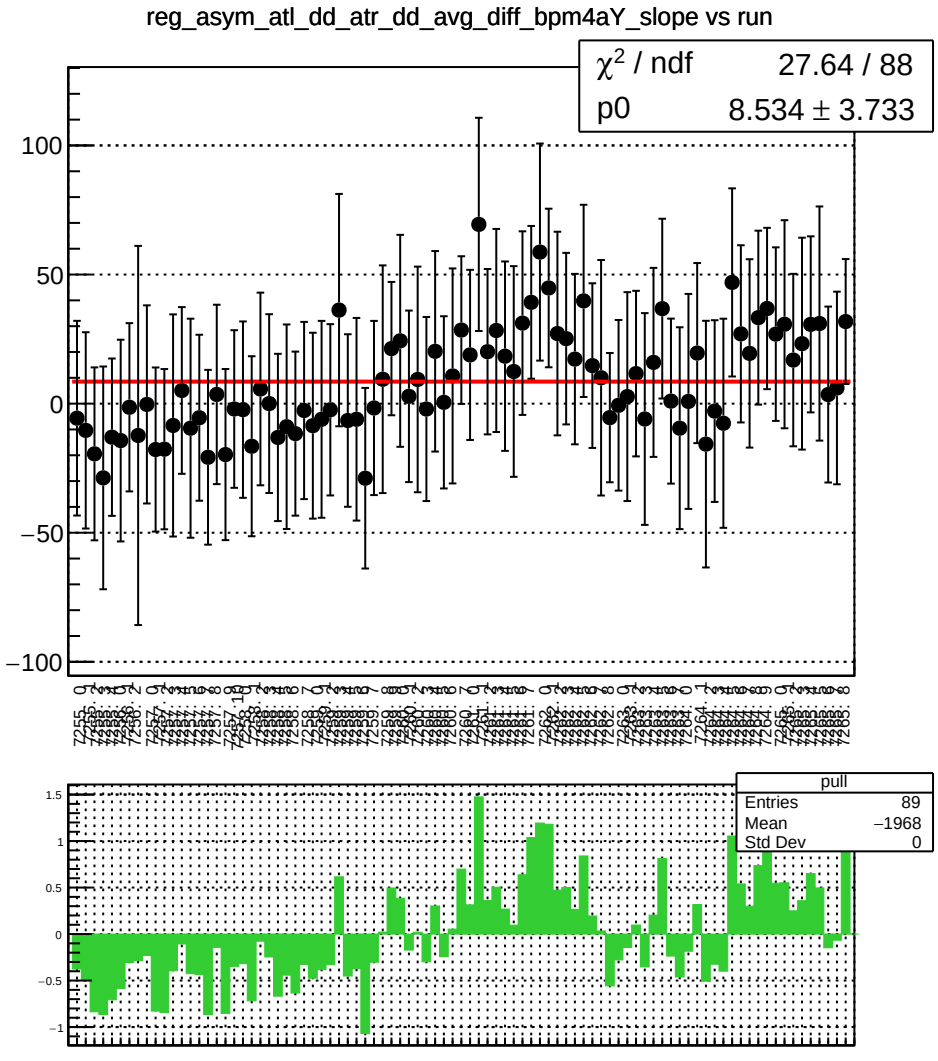

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.42 / 88
p0 −76.29 ± 3.917
pull
Entries 89
Mean −365
Std Dev 0

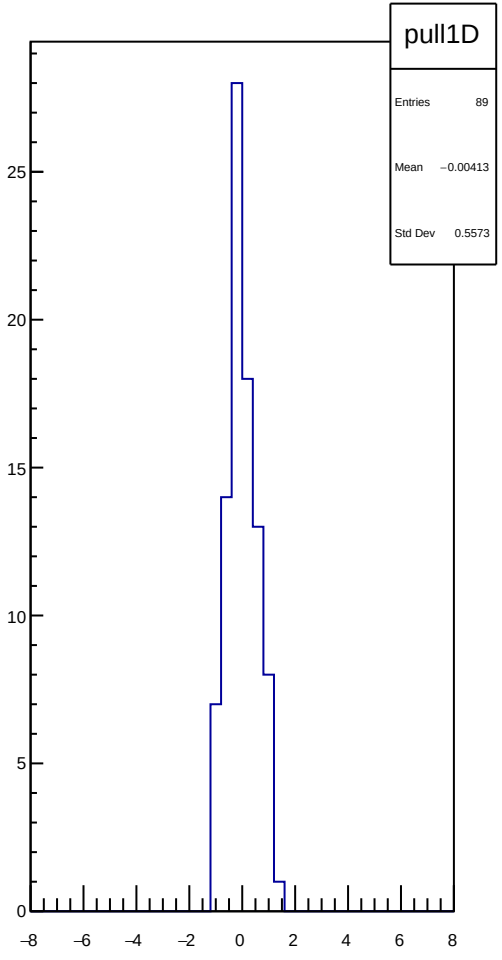

pull1D
Entries 89
Mean 0.01706
Std Dev 0.5939

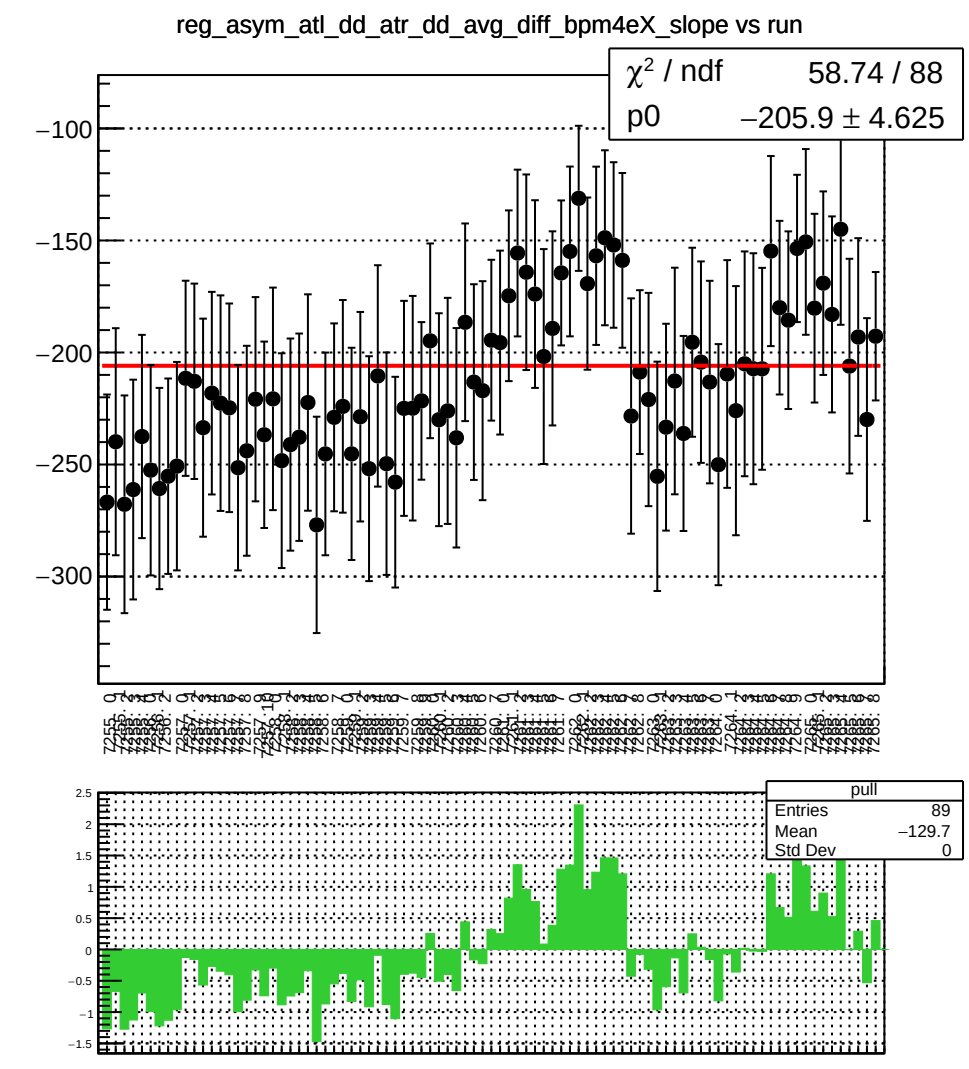

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 356.4 / 88
p0 107.8 ± 0.1622
pull
Entries 89
Mean −1608
Std Dev 0
pull1D
Entries 89
Mean 0.0258
Std Dev 2.001

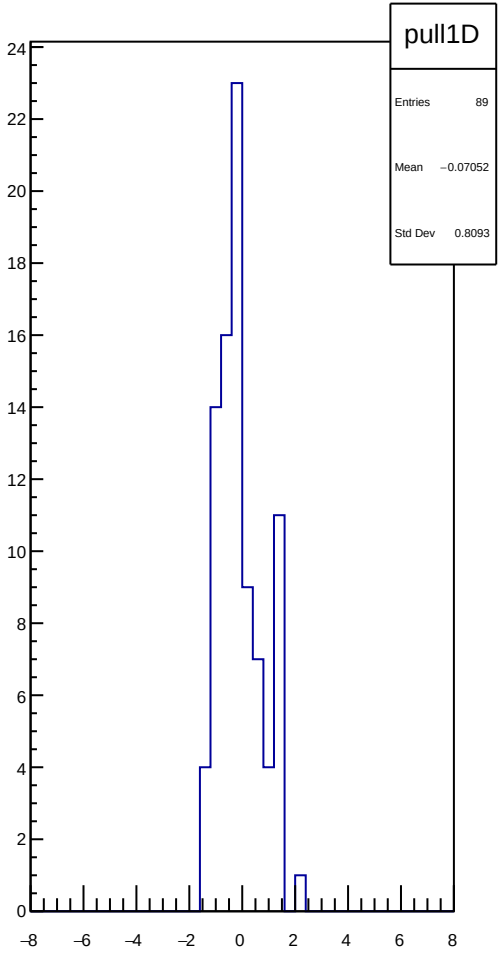

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 57.87 / 88
p0 177.4 ± 4.271
300
250
200
150
100
pull
Entries 89
Mean −141.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

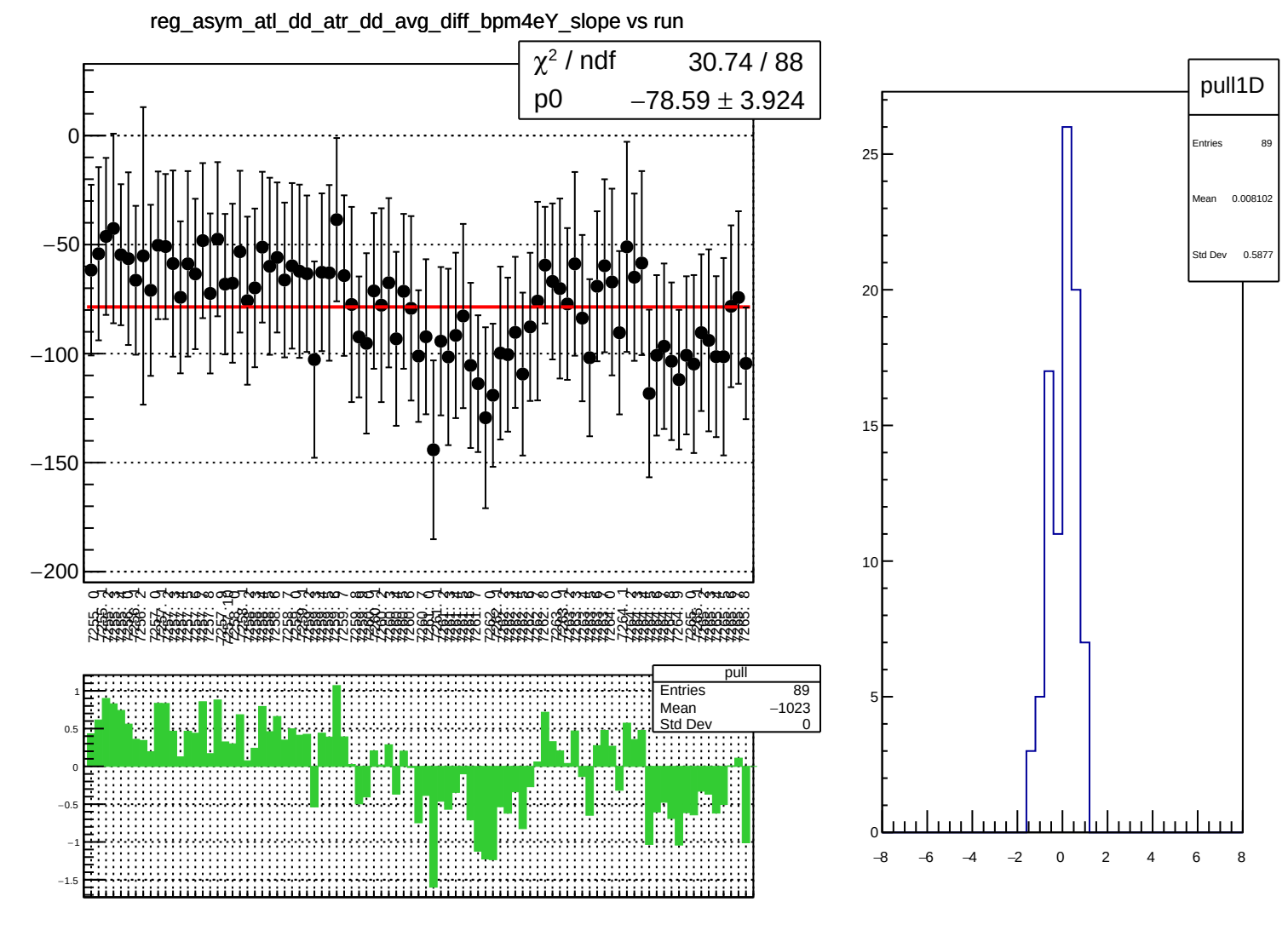

pull1D
Entries 89
Mean 0.06672
Std Dev 0.8036
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

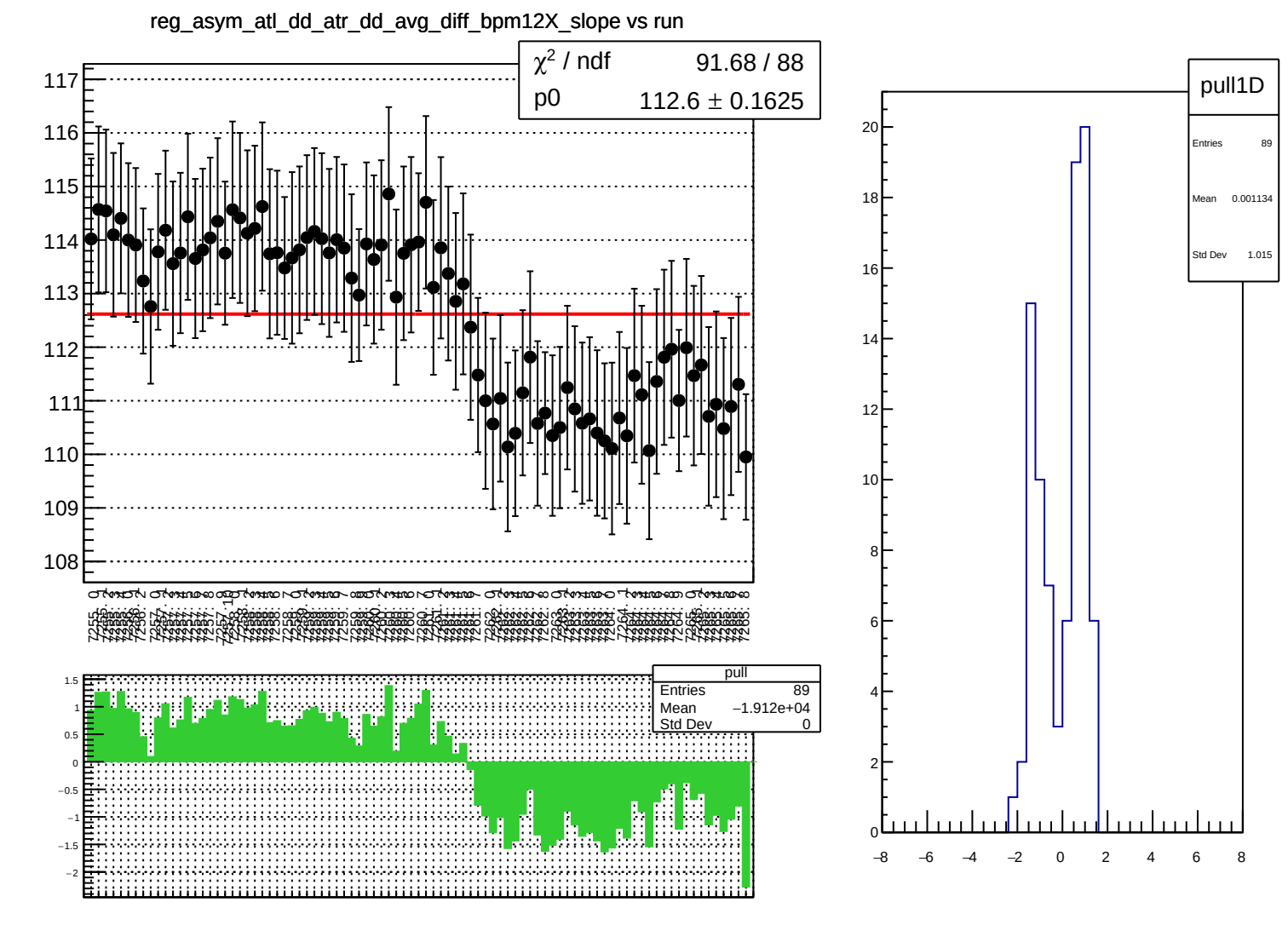

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.64 / 88
p0 8.534 ± 3.733
pull
Entries 89
Mean −1968
Std Dev 0

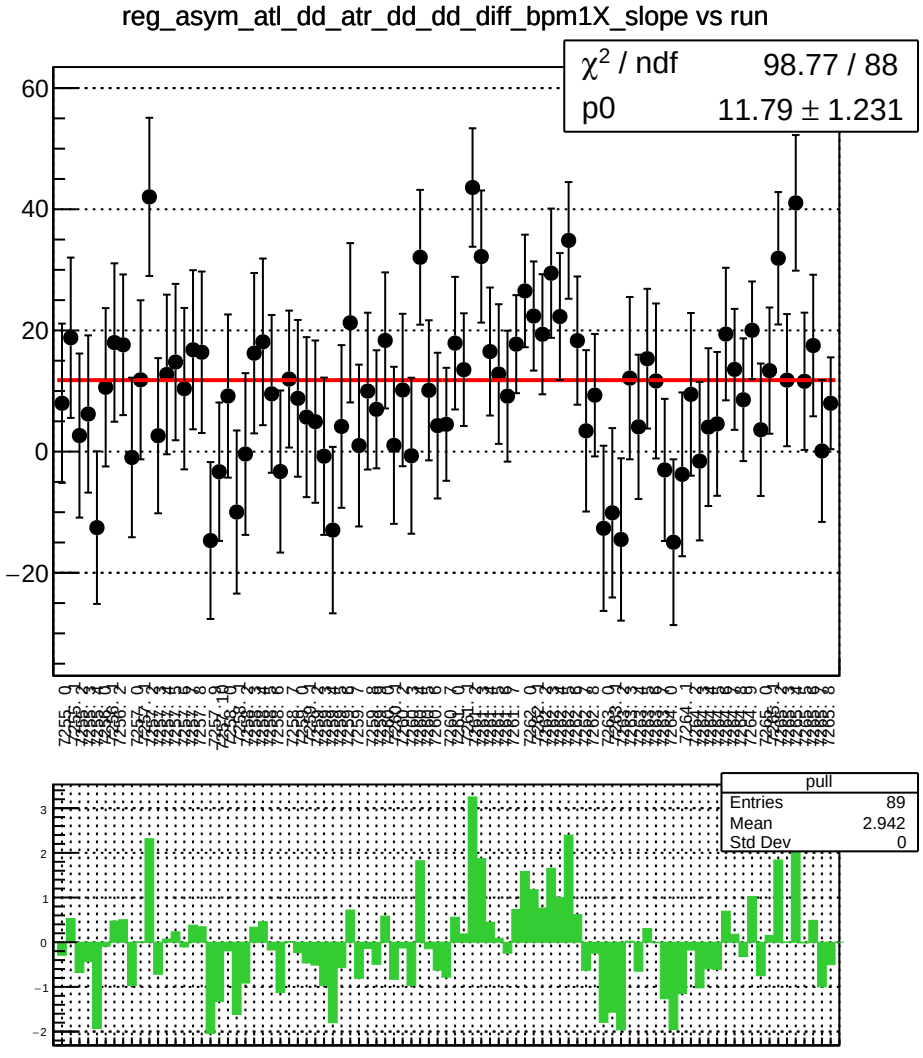

pull1D
Entries 89
Mean −0.00413
Std Dev 0.5573

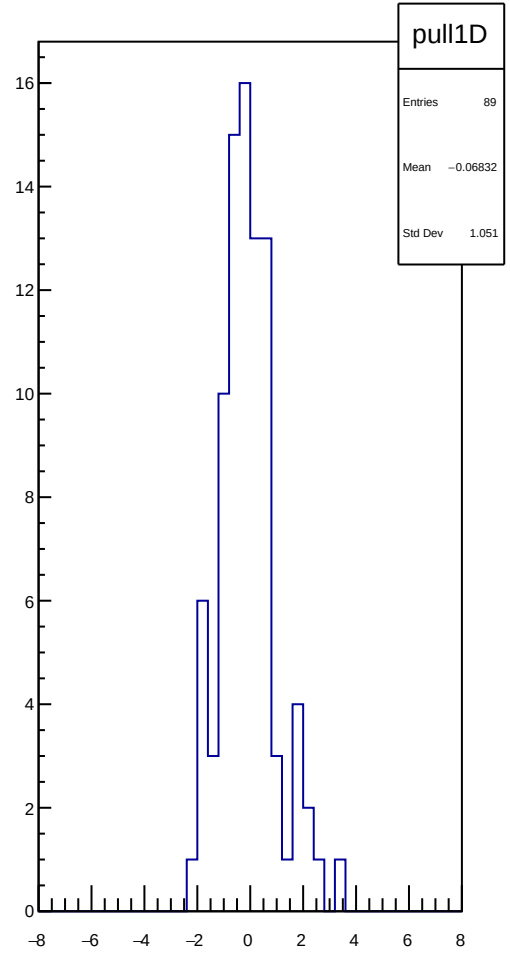

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.74 / 88
p0 −205.9 ± 4.625
pull
Entries 89
Mean −129.7
Std Dev 0

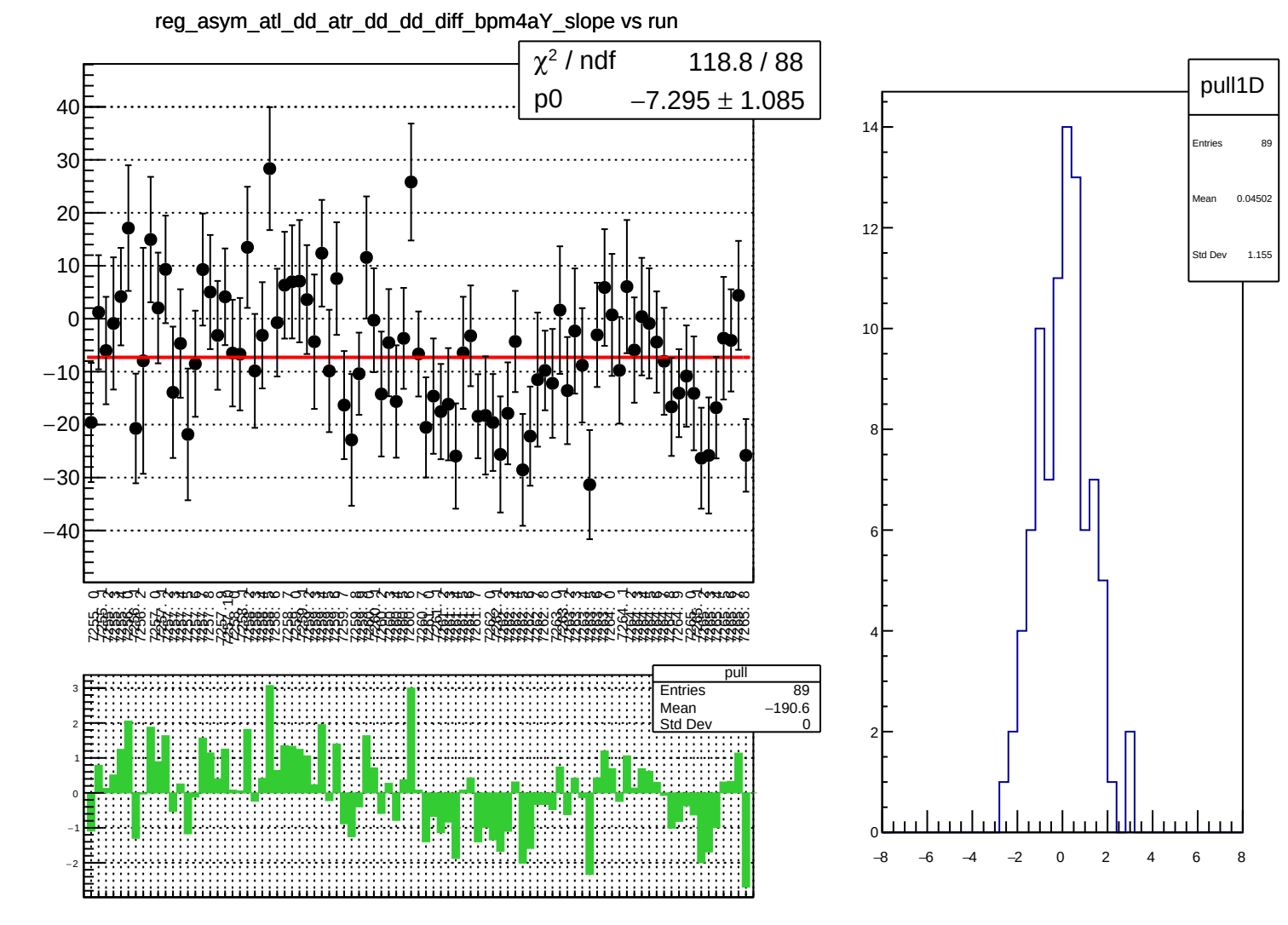

pull1D
Entries 89
Mean −0.07052
Std Dev 0.8093

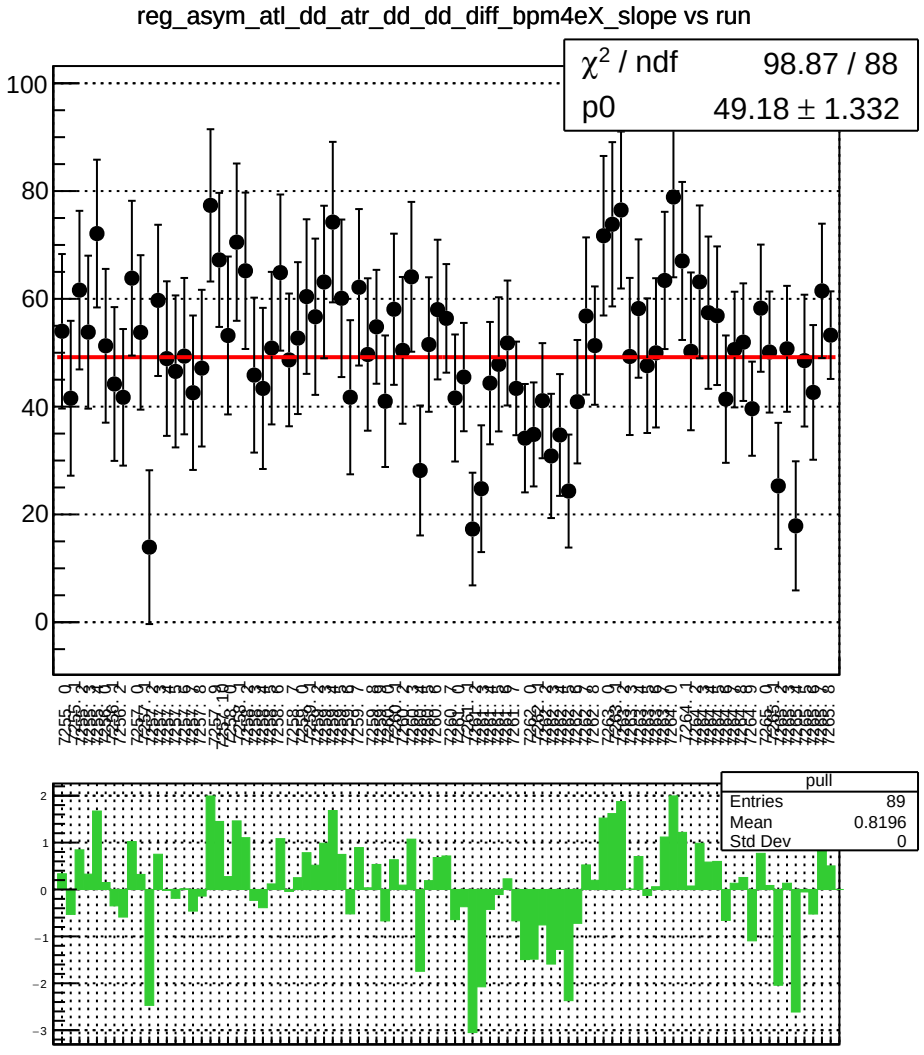

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.74 / 88
p0 −78.59 ± 3.924
pull
Entries 89
Mean −1023
Std Dev 0
pull1D
Entries 89
Mean 0.008102
Std Dev 0.5877

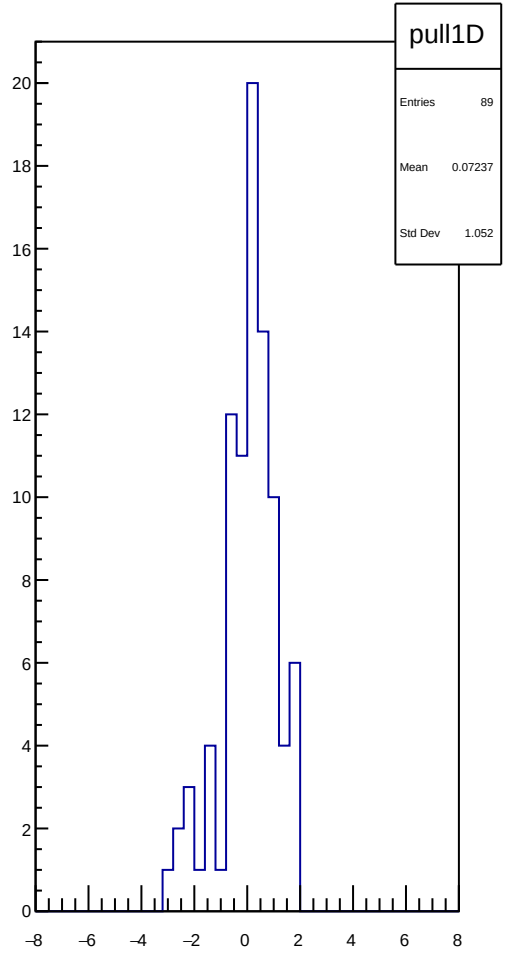

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 91.68 / 88
p0 112.6 ± 0.1625
pull
Entries 89
Mean −1.912e+04
Std Dev 0
pull1D
Entries 89
Mean 0.001134
Std Dev 1.015

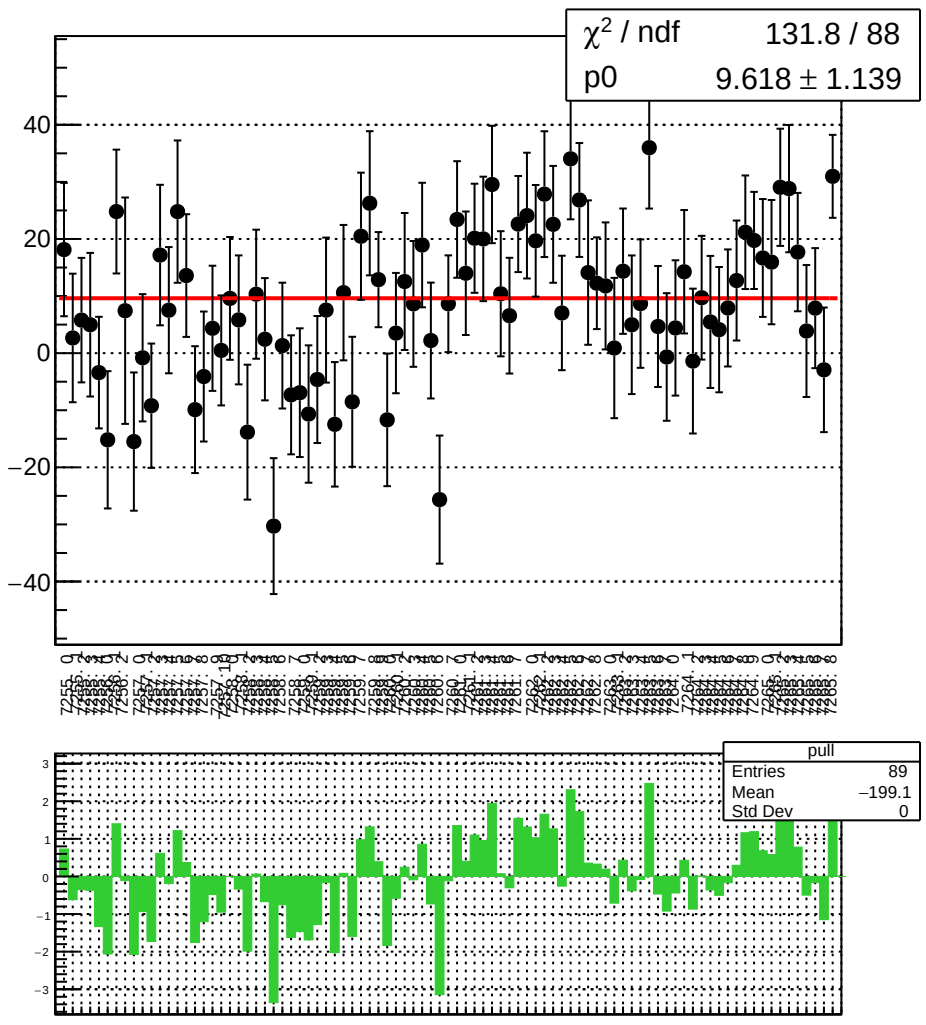

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 98.77 / 88
p0 11.79 ± 1.231
pull
Entries 89
Mean 2.942
Std Dev 0

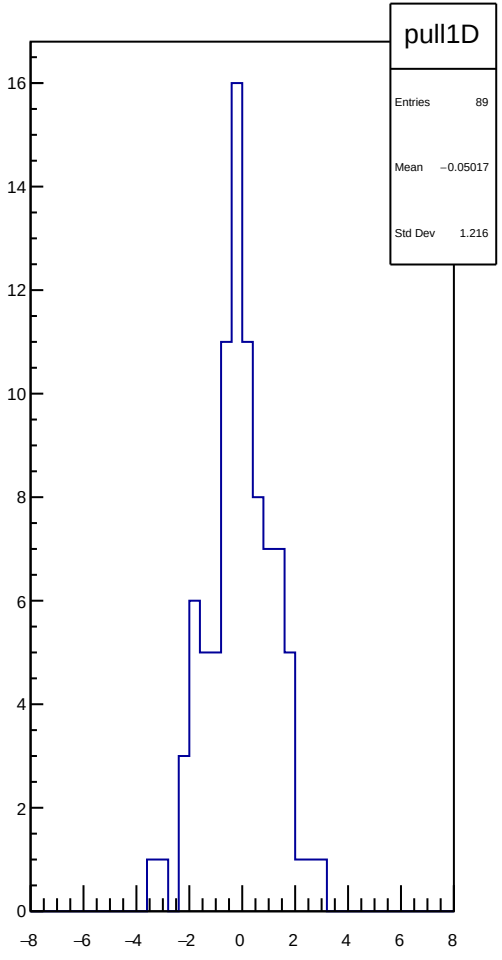

pull1D
Entries 89
Mean −0.06832
Std Dev 1.051

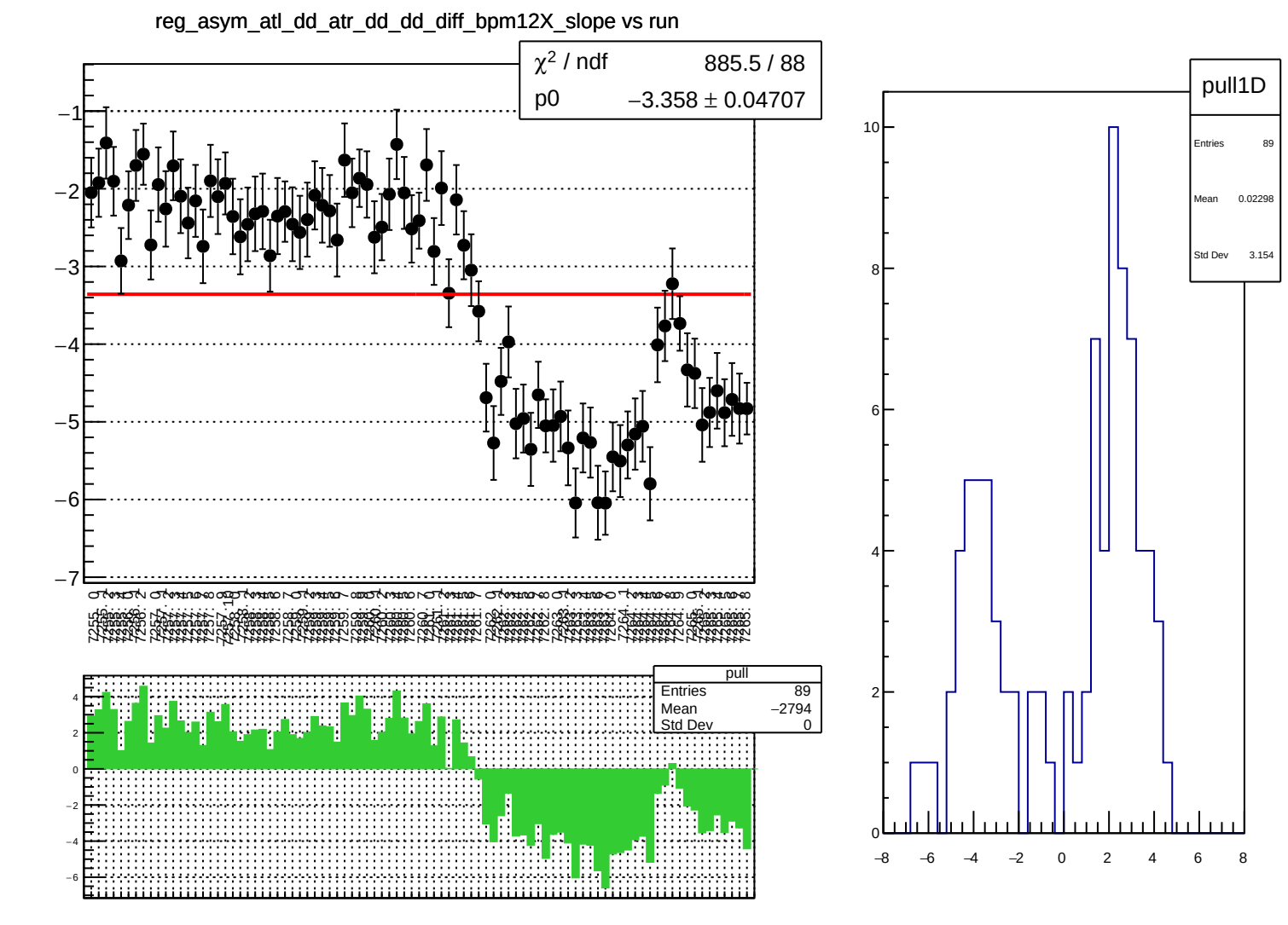

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 118.8 / 88
p0 −7.295 ± 1.085
pull
Entries 89
Mean −190.6
Std Dev 0
pull1D
Entries 89
Mean 0.04502
Std Dev 1.155

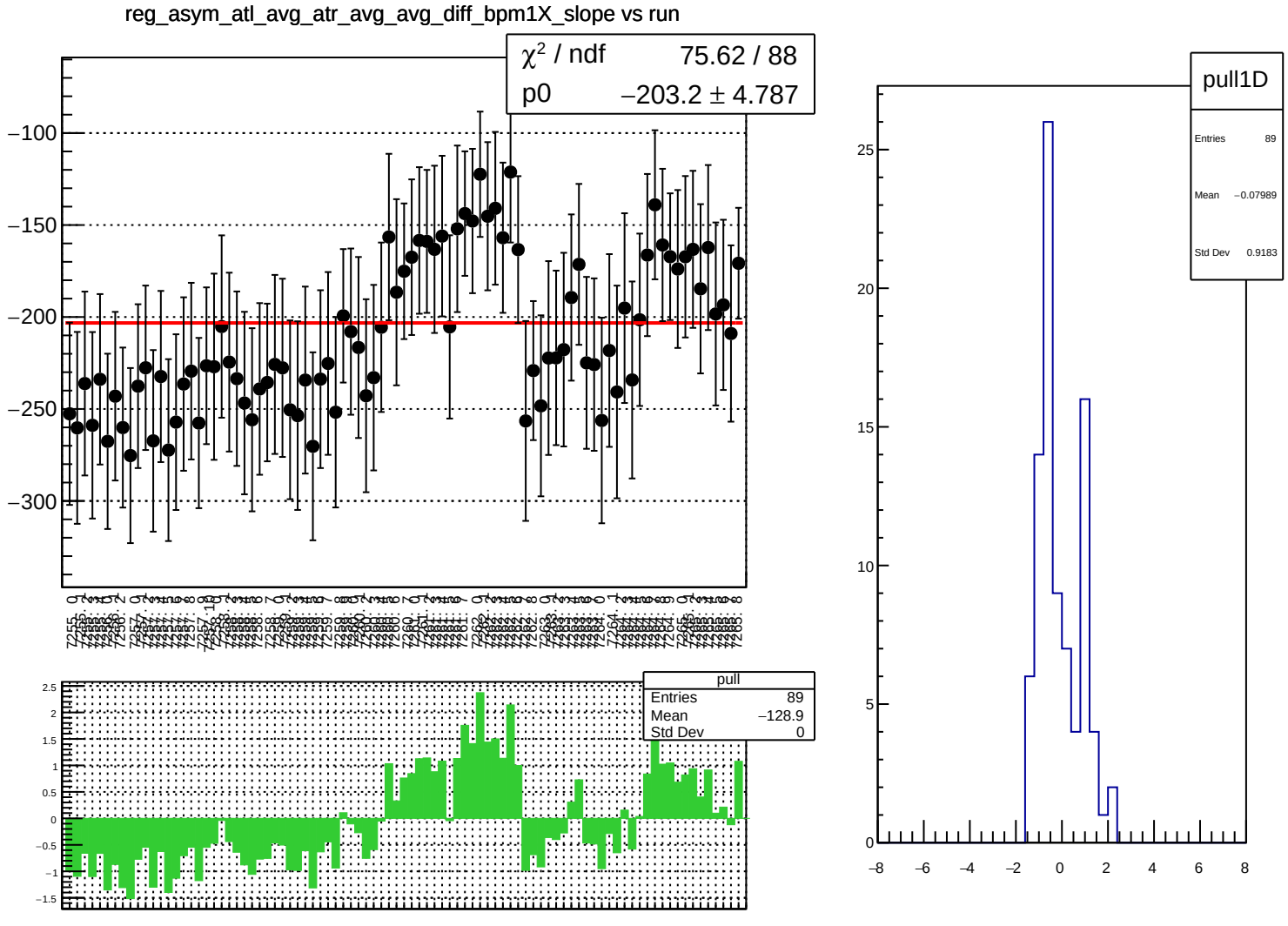

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 98.87 / 88
p0 49.18 ± 1.332
pull
Entries 89
Mean 0.8196
Std Dev 0

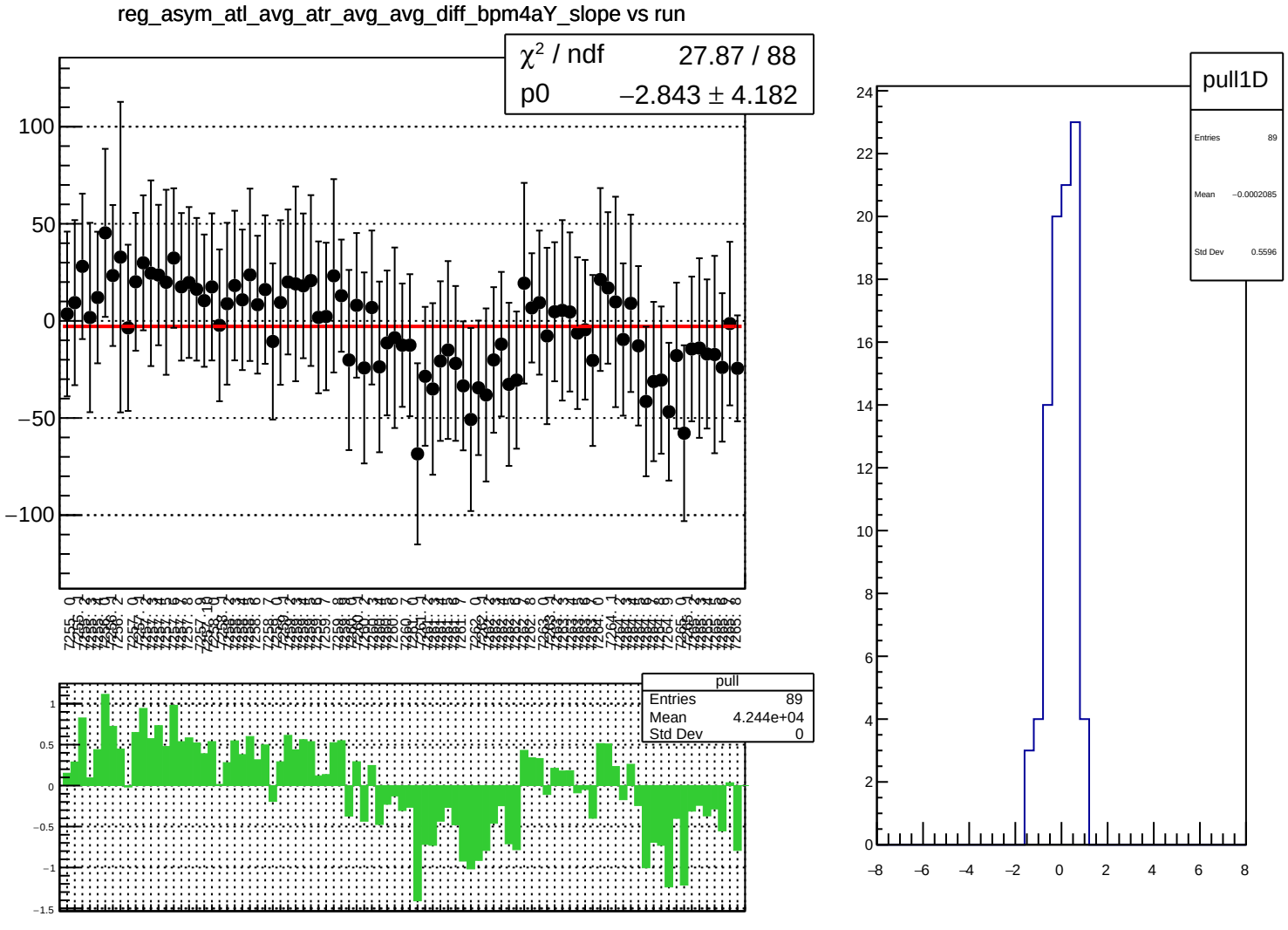

pull1D
Entries 89
Mean 0.07237
Std Dev 1.052

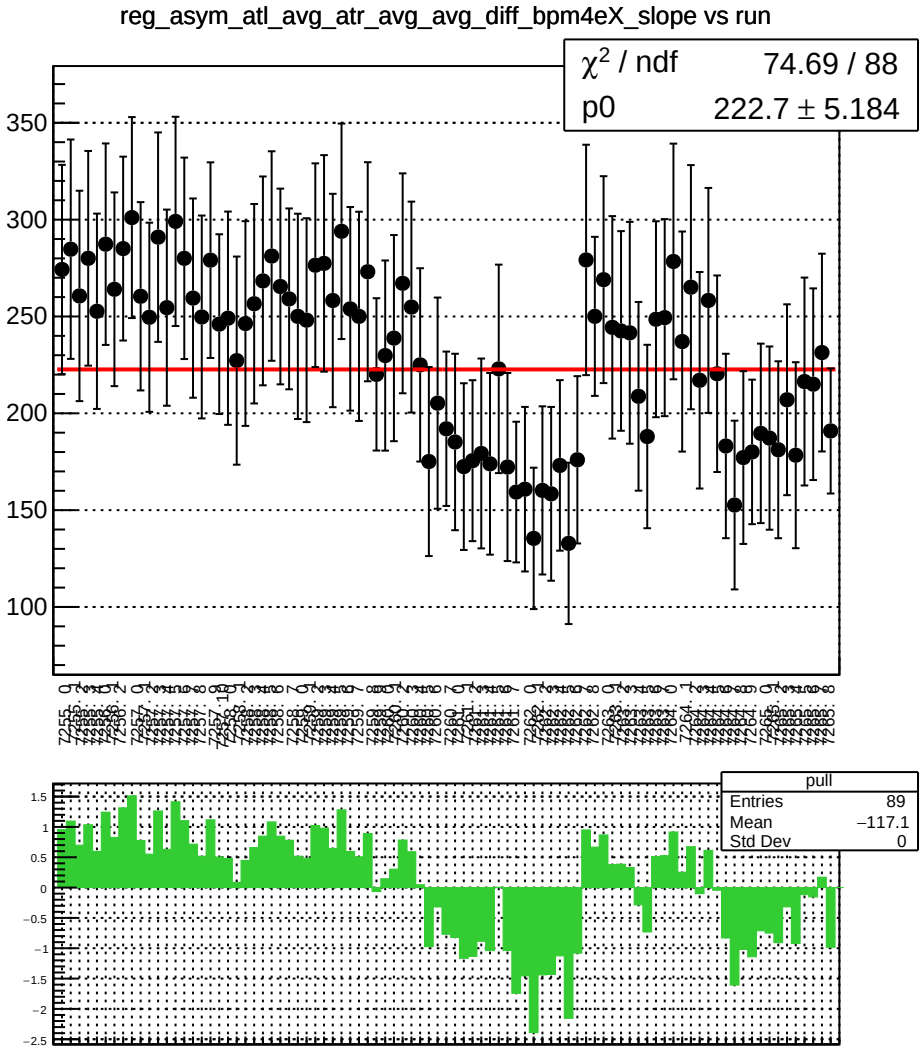

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 131.8 / 88
p0 9.618 ± 1.139
pull
Entries 89
Mean −199.1
Std Dev 0

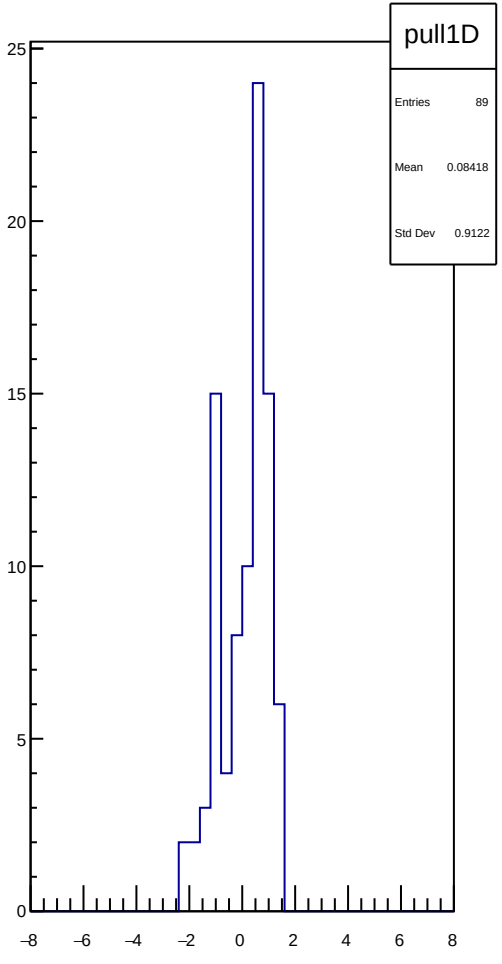

pull1D
Entries 89
Mean −0.05017
Std Dev 1.216

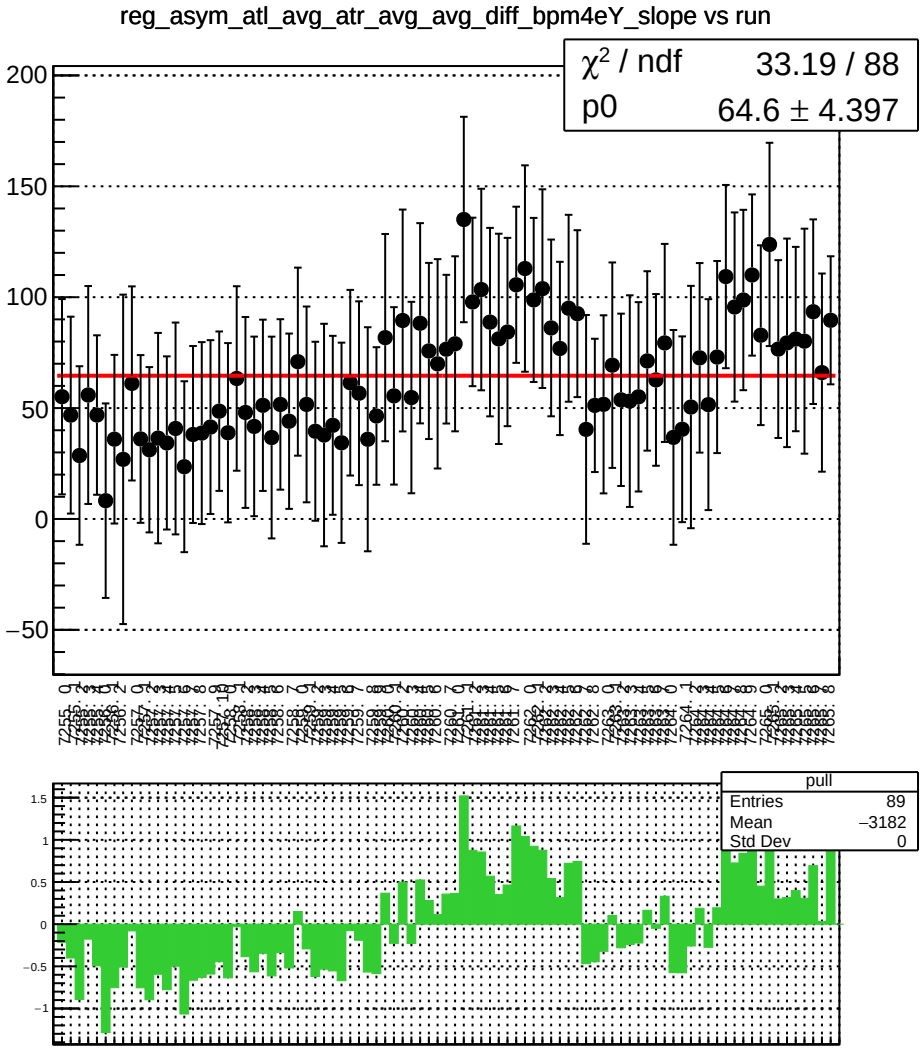

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 885.5 / 88
p0 −3.358 ± 0.04707
pull
Entries 89
Mean −2794
Std Dev 0
pull1D
Entries 89
Mean 0.02298
Std Dev 3.154

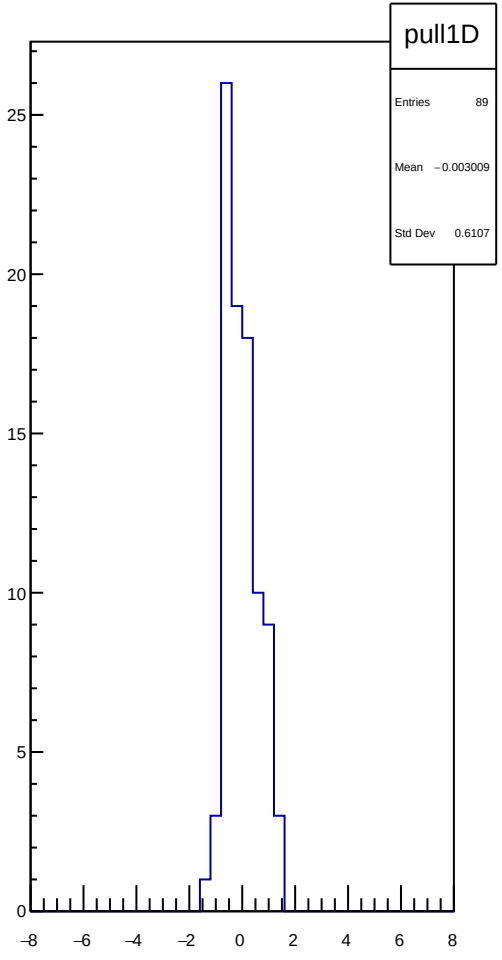

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 75.62 / 88
p0 −203.2 ± 4.787
−100
−150
−200
−250
−300
pull
Entries 89
Mean −128.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.07989
Std Dev 0.9183
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

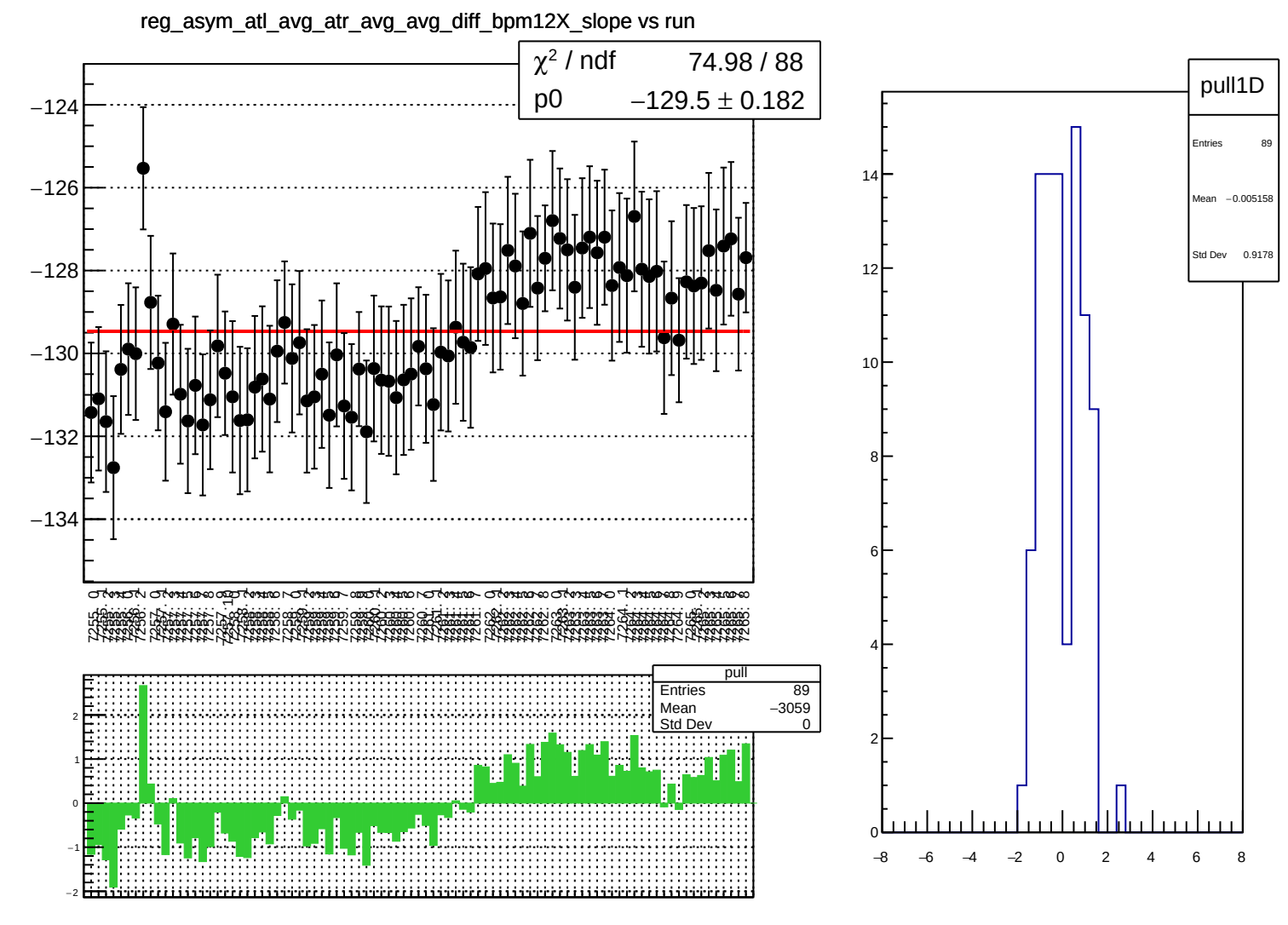

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.87 / 88
p0 −2.843 ± 4.182
pull
Entries 89
Mean 4.244e+04
Std Dev 0
pull1D
Entries 89
Mean −0.0002085
Std Dev 0.5596

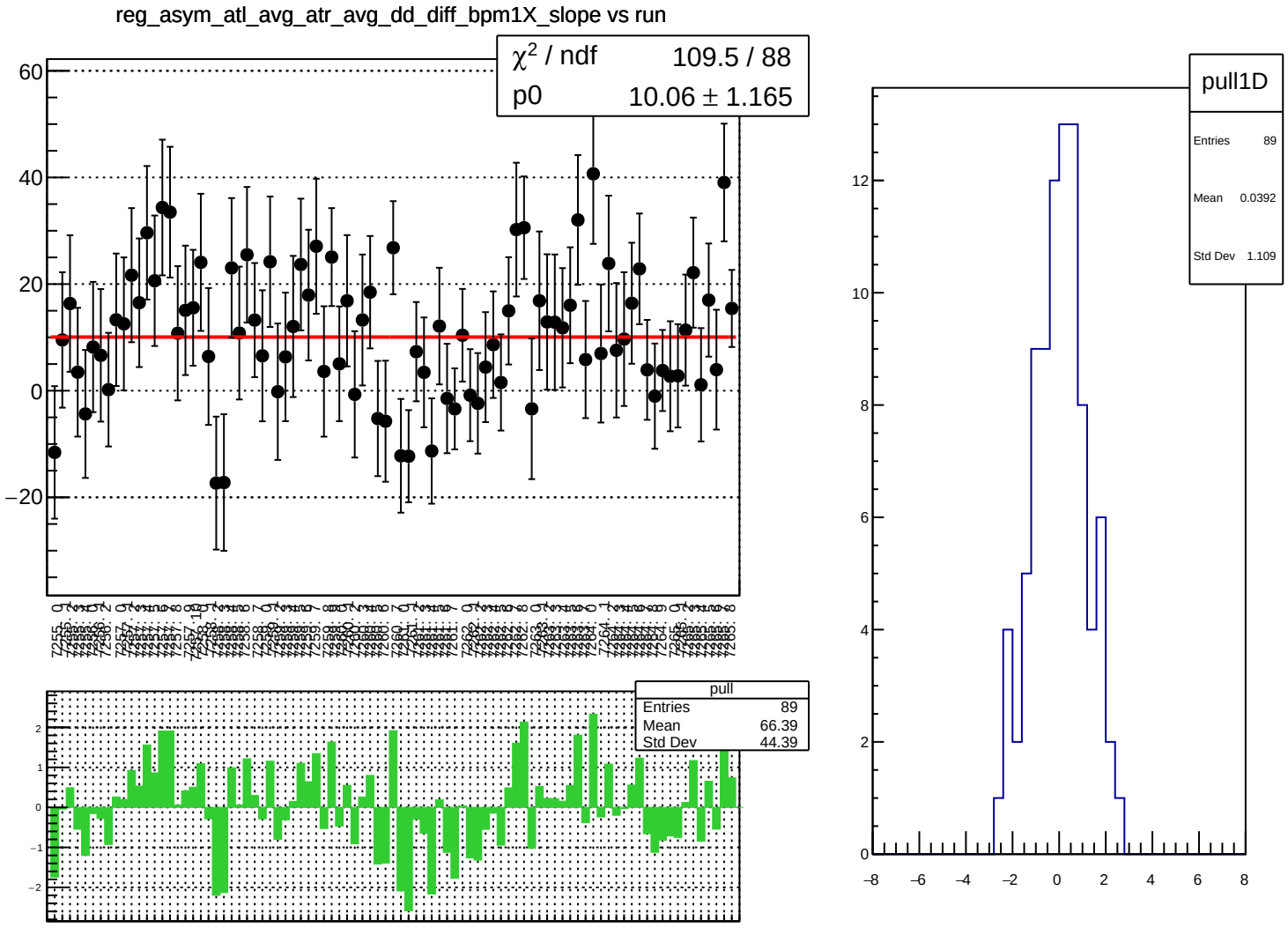

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 74.69 / 88
p0 222.7 ± 5.184
pull
Entries 89
Mean −117.1
Std Dev 0

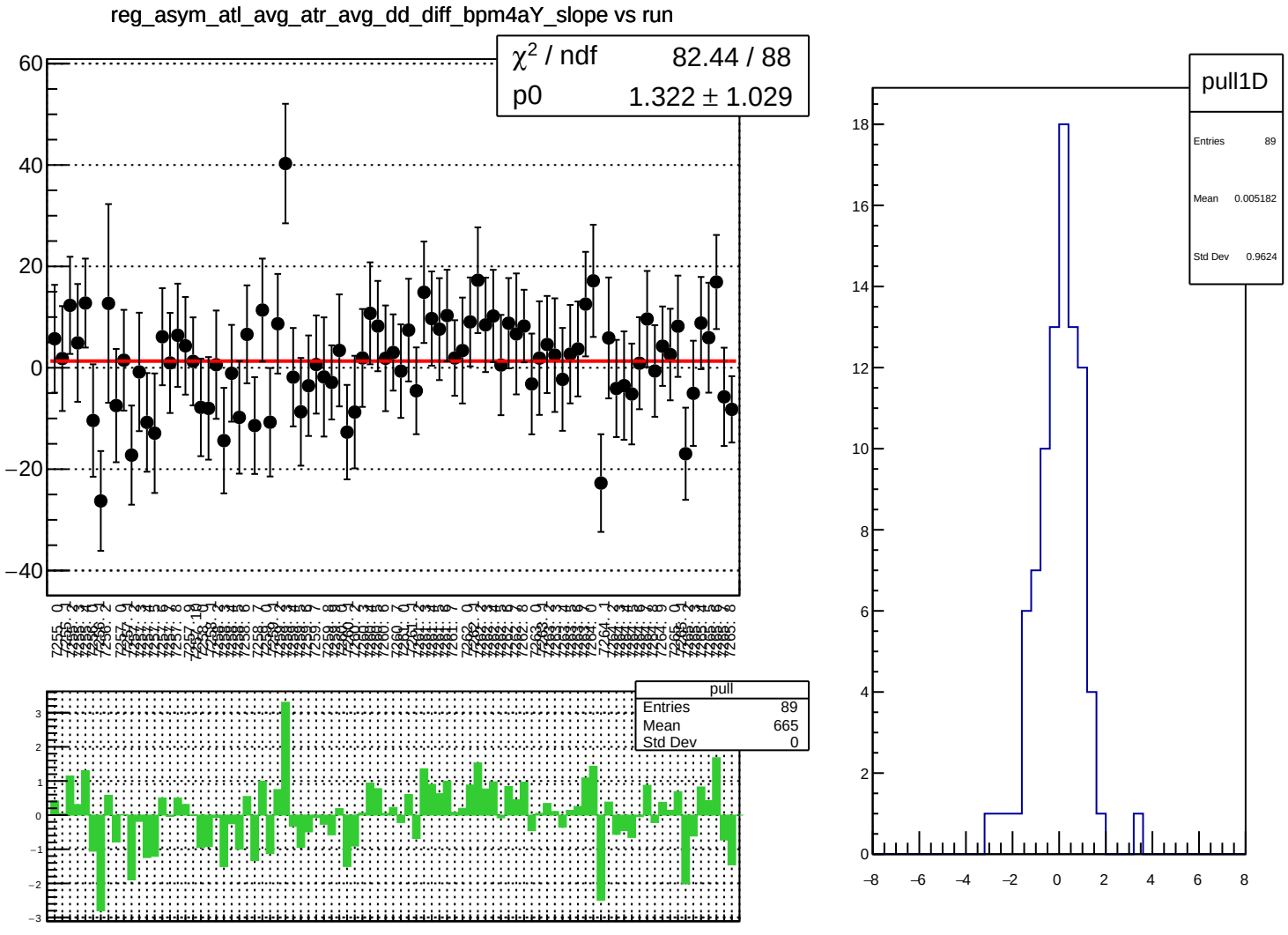

pull1D
Entries 89
Mean 0.08418
Std Dev 0.9122

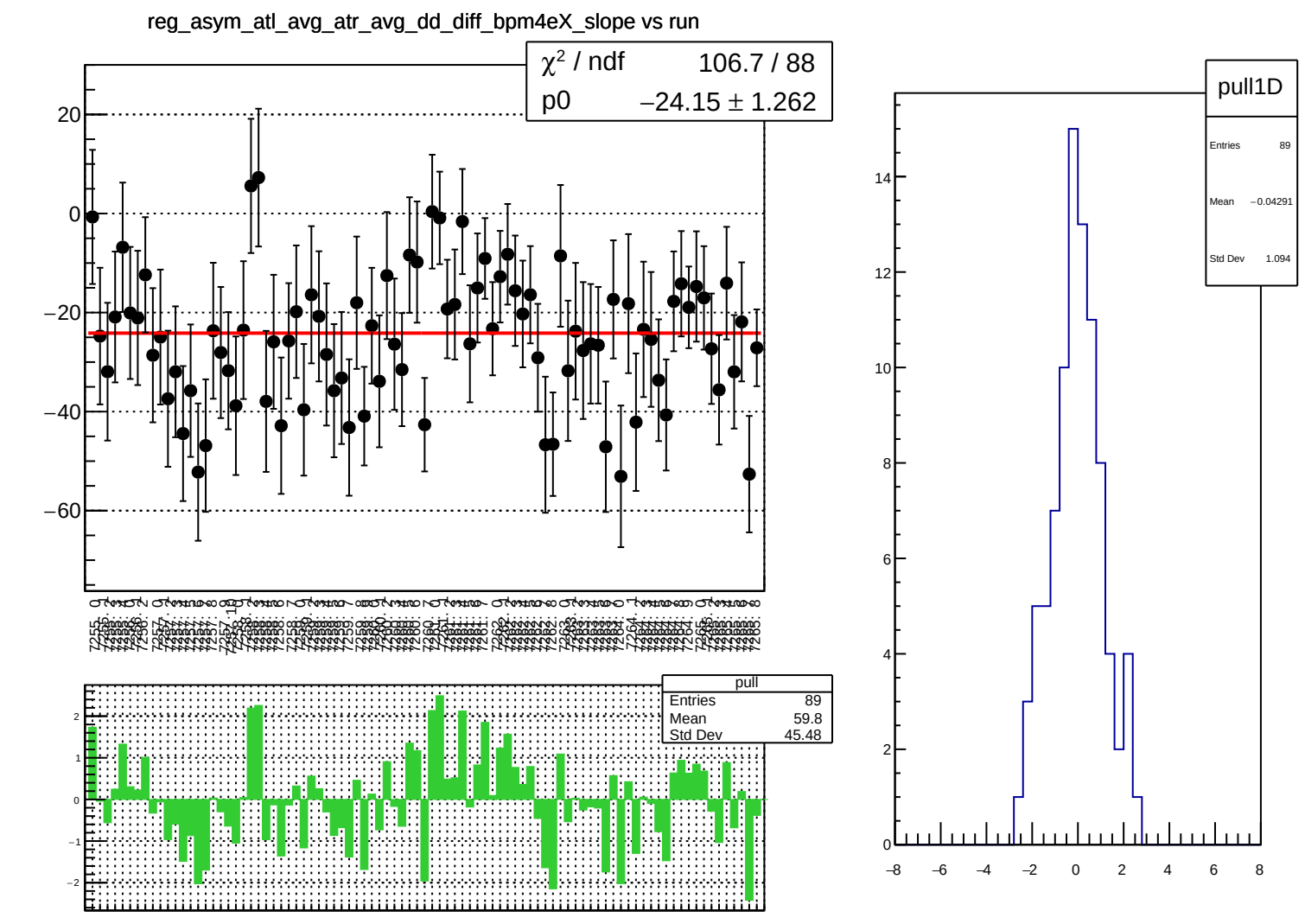

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.19 / 88
p0 64.6 ± 4.397
pull
Entries 89
Mean −3182
Std Dev 0

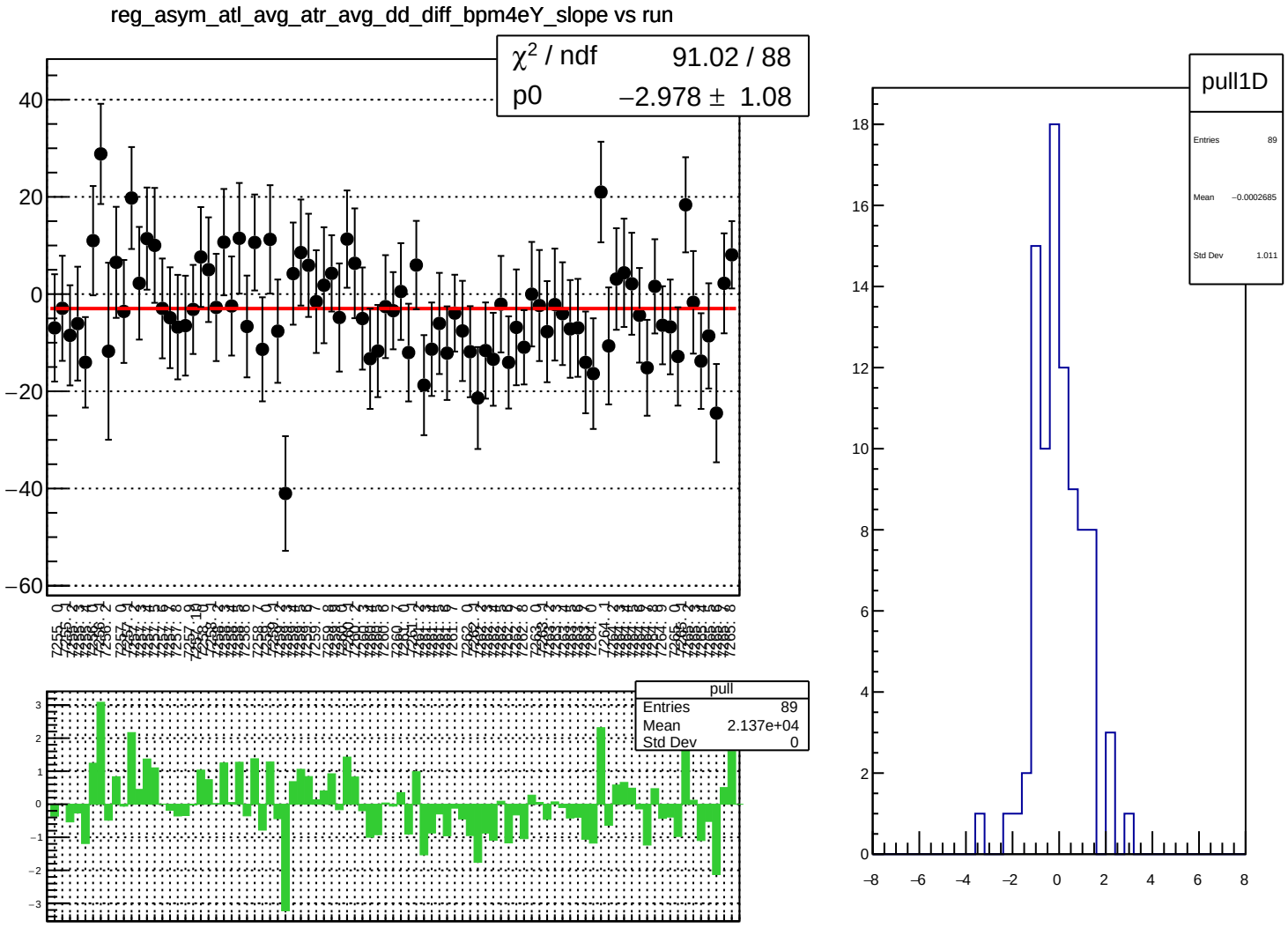

pull1D
Entries 89
Mean −0.003009
Std Dev 0.6107

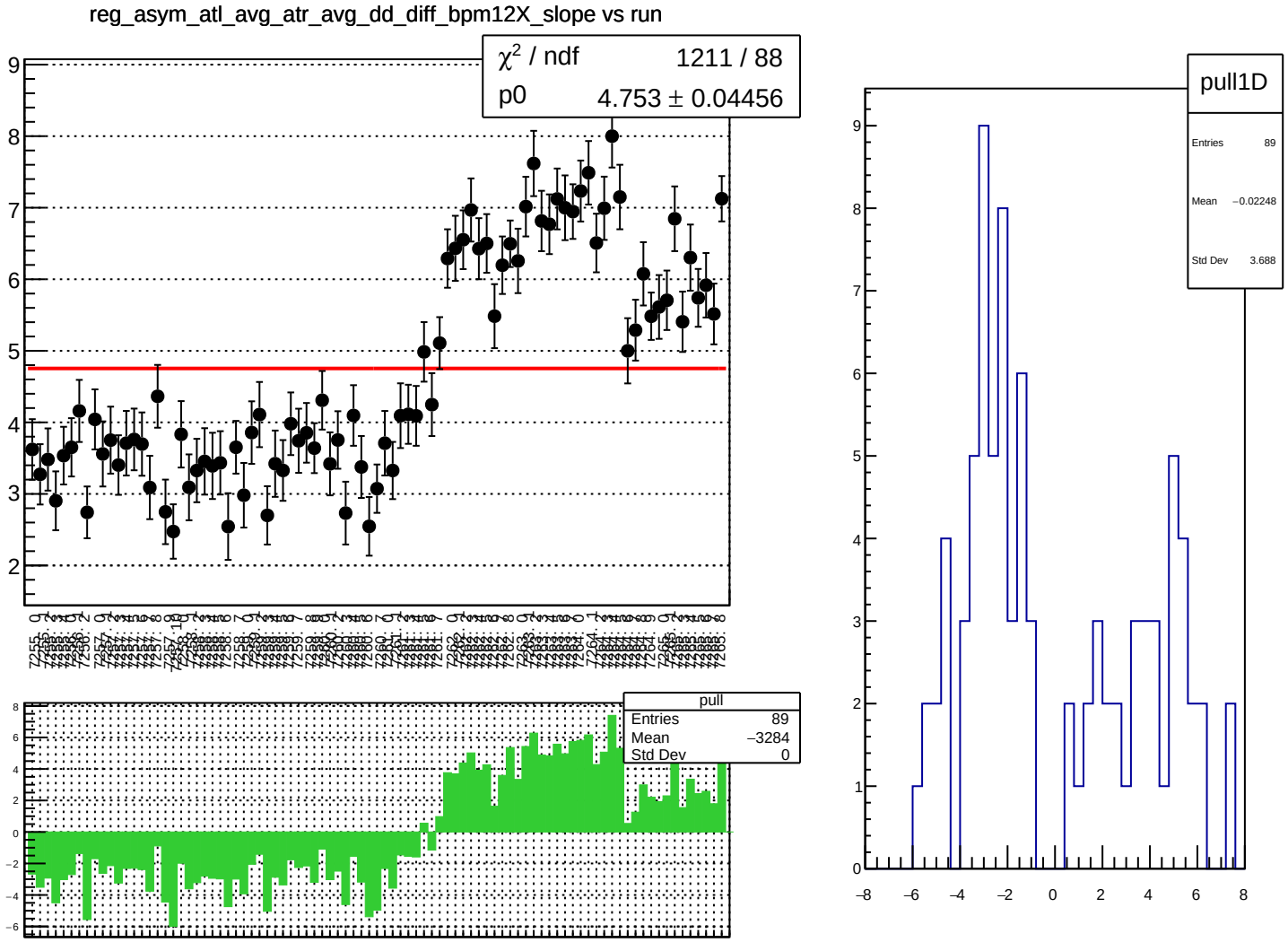

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 74.98 / 88
p0 −129.5 ± 0.182
−124
−126
−128
−130
−132
−134
pull
Entries 89
Mean −3059
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.005158
Std Dev 0.9178
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

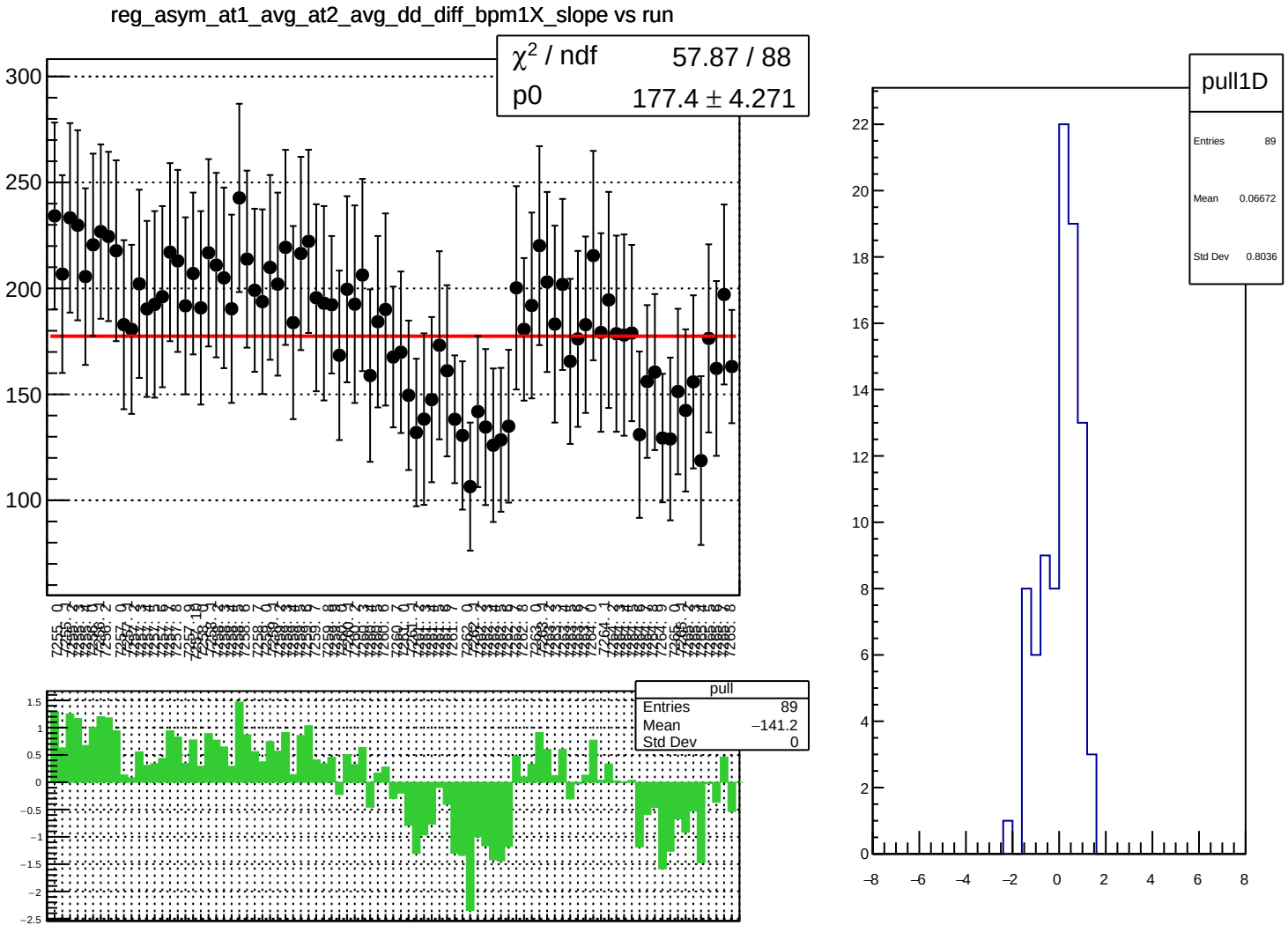

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 109.5 / 88
p0 10.06 ± 1.165
pull
Entries 89
Mean 66.39
Std Dev 44.39
pull1D
Entries 89
Mean 0.0392
Std Dev 1.109

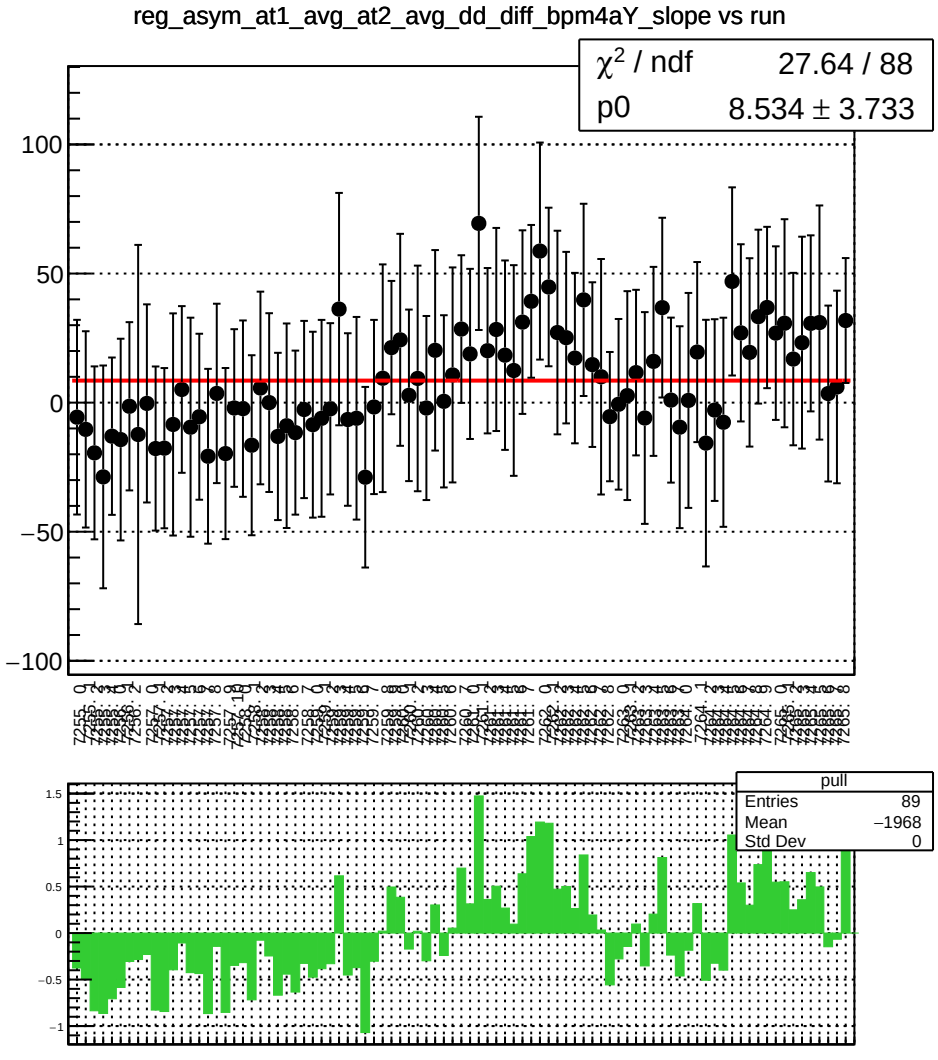

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.44 / 88
p0 1.322 ± 1.029
pull
Entries 89
Mean 665
Std Dev 0
pull1D
Entries 89
Mean 0.005182
Std Dev 0.9624

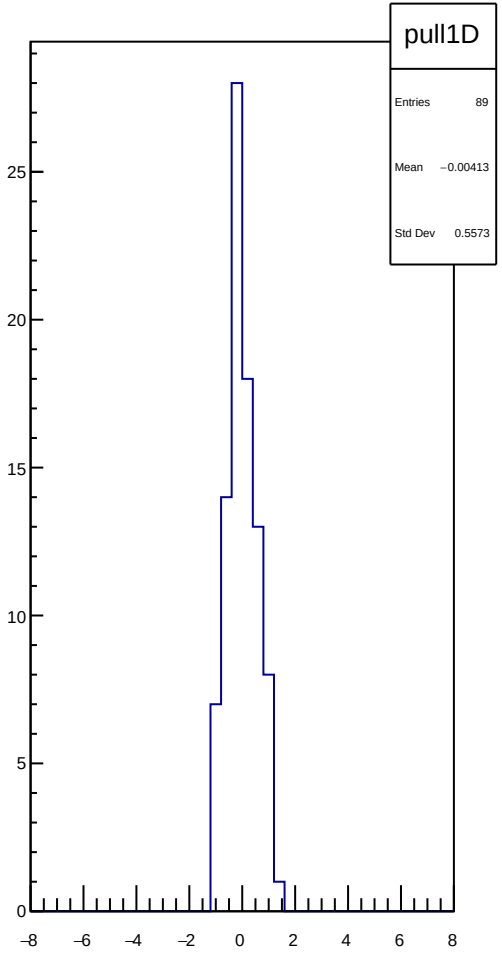

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 106.7 / 88
p0 −24.15 ± 1.262
20
0
−20
−40
−60
pull
Entries 89
Mean 59.8
Std Dev 45.48
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.04291
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

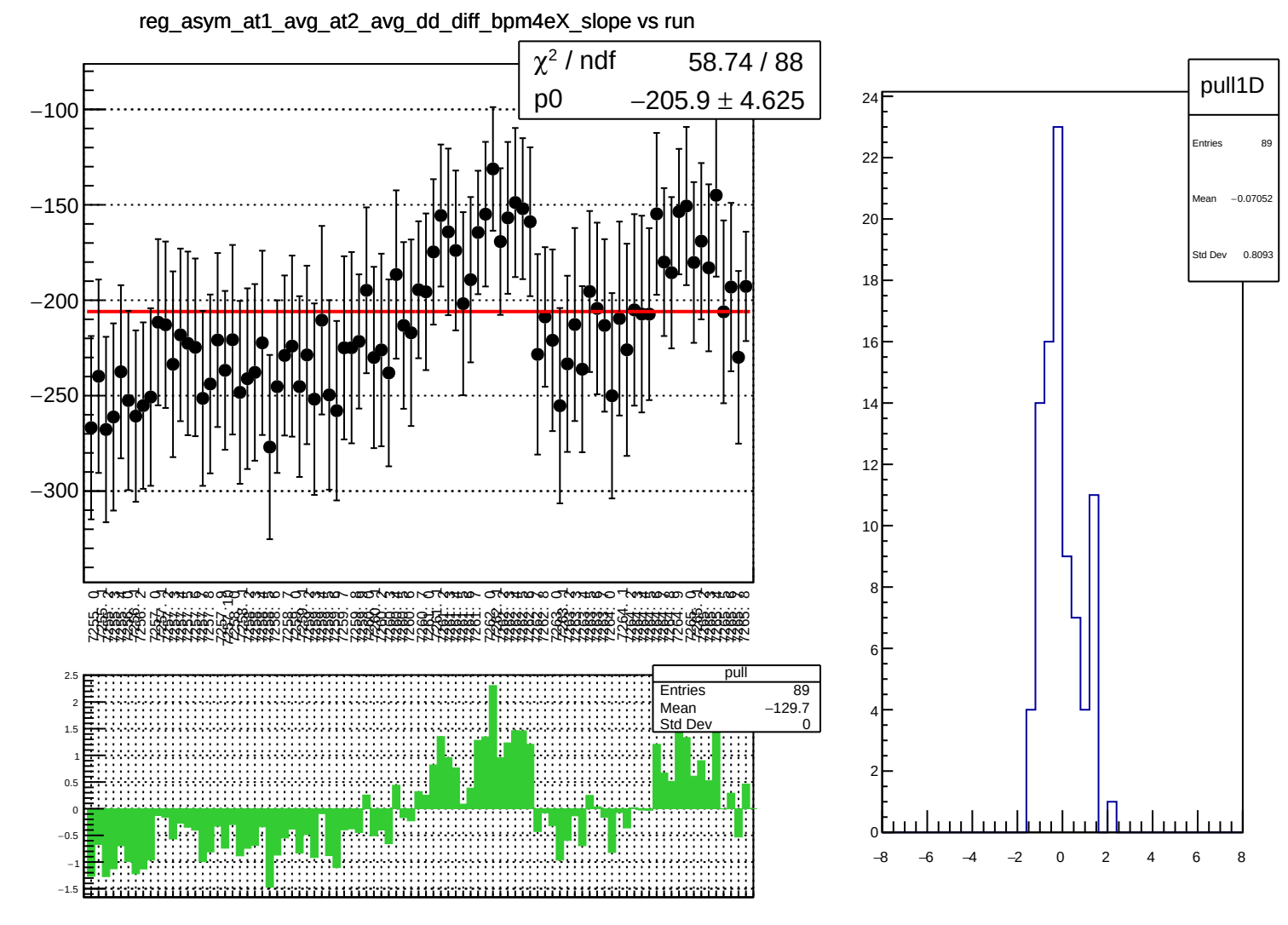

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 91.02 / 88
p0 −2.978 ± 1.08
pull
Entries 89
Mean 2.137e+04
Std Dev 0
pull1D
Entries 89
Mean −0.0002685
Std Dev 1.011

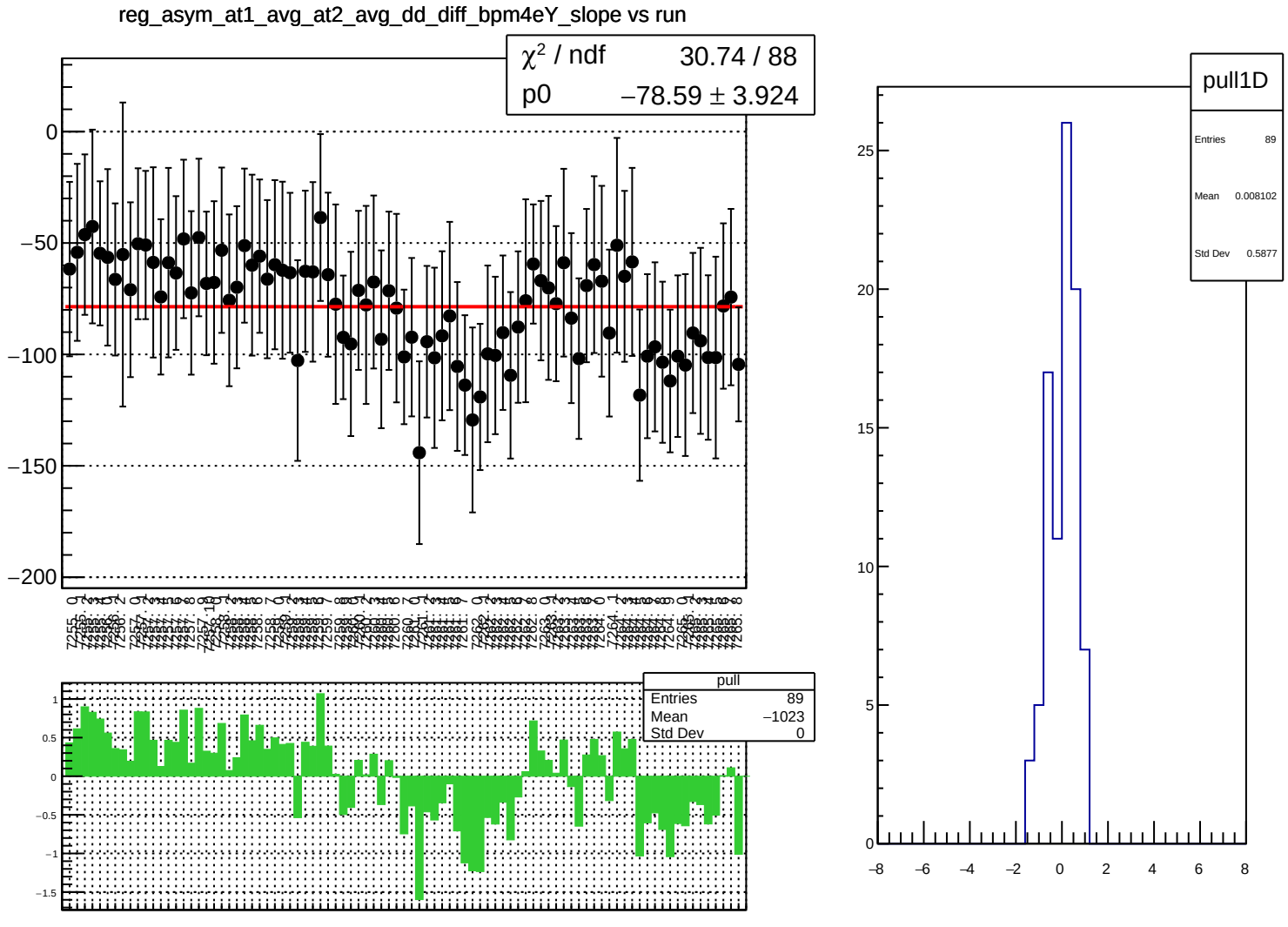

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1211 / 88
p0 4.753 ± 0.04456
pull
Entries 89
Mean −3284
Std Dev 0
pull1D
Entries 89
Mean −0.02248
Std Dev 3.688

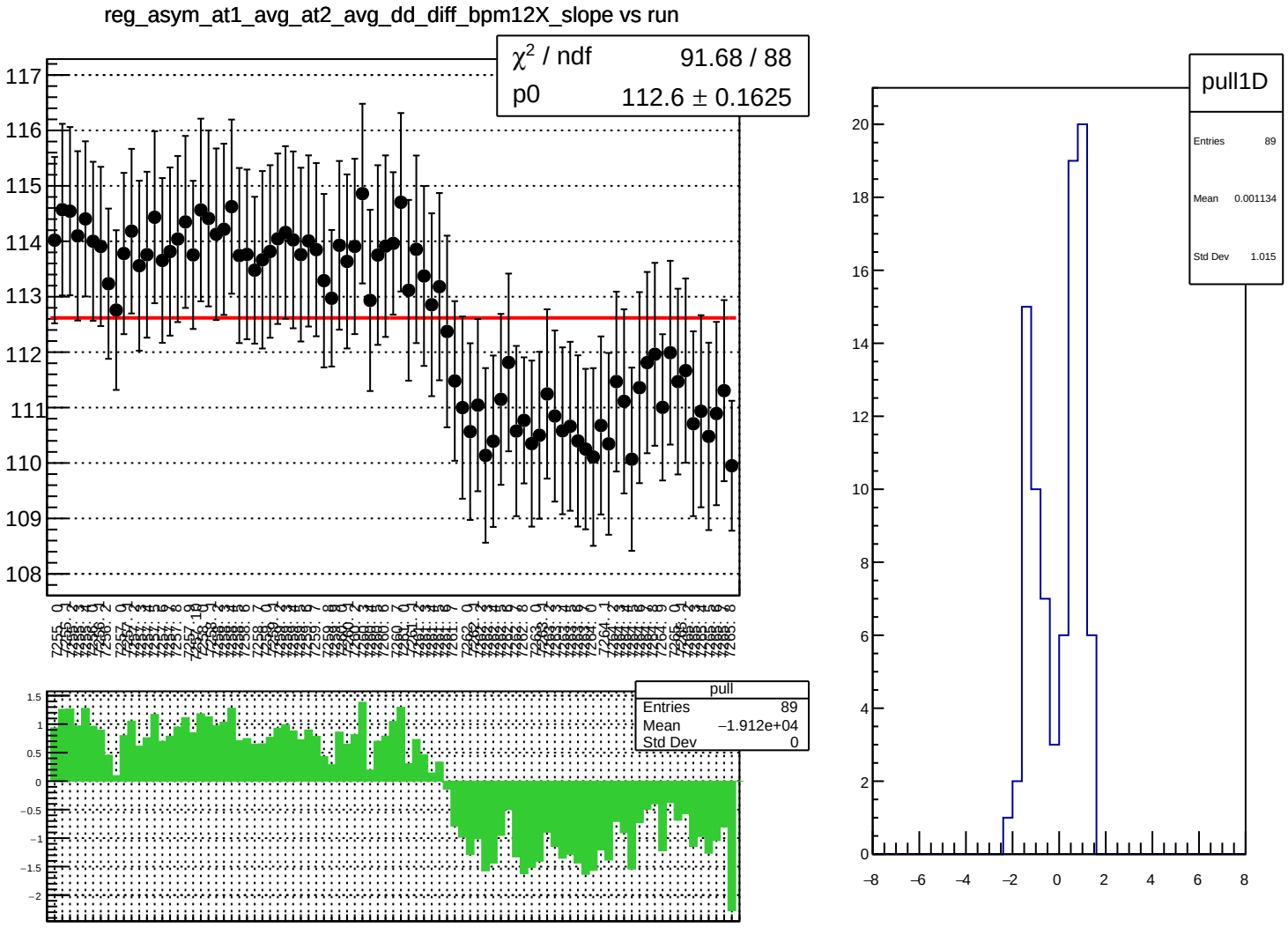

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 57.87 / 88
p0 177.4 ± 4.271
300
250
200
150
100
pull
Entries 89
Mean −141.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.06672
Std Dev 0.8036
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

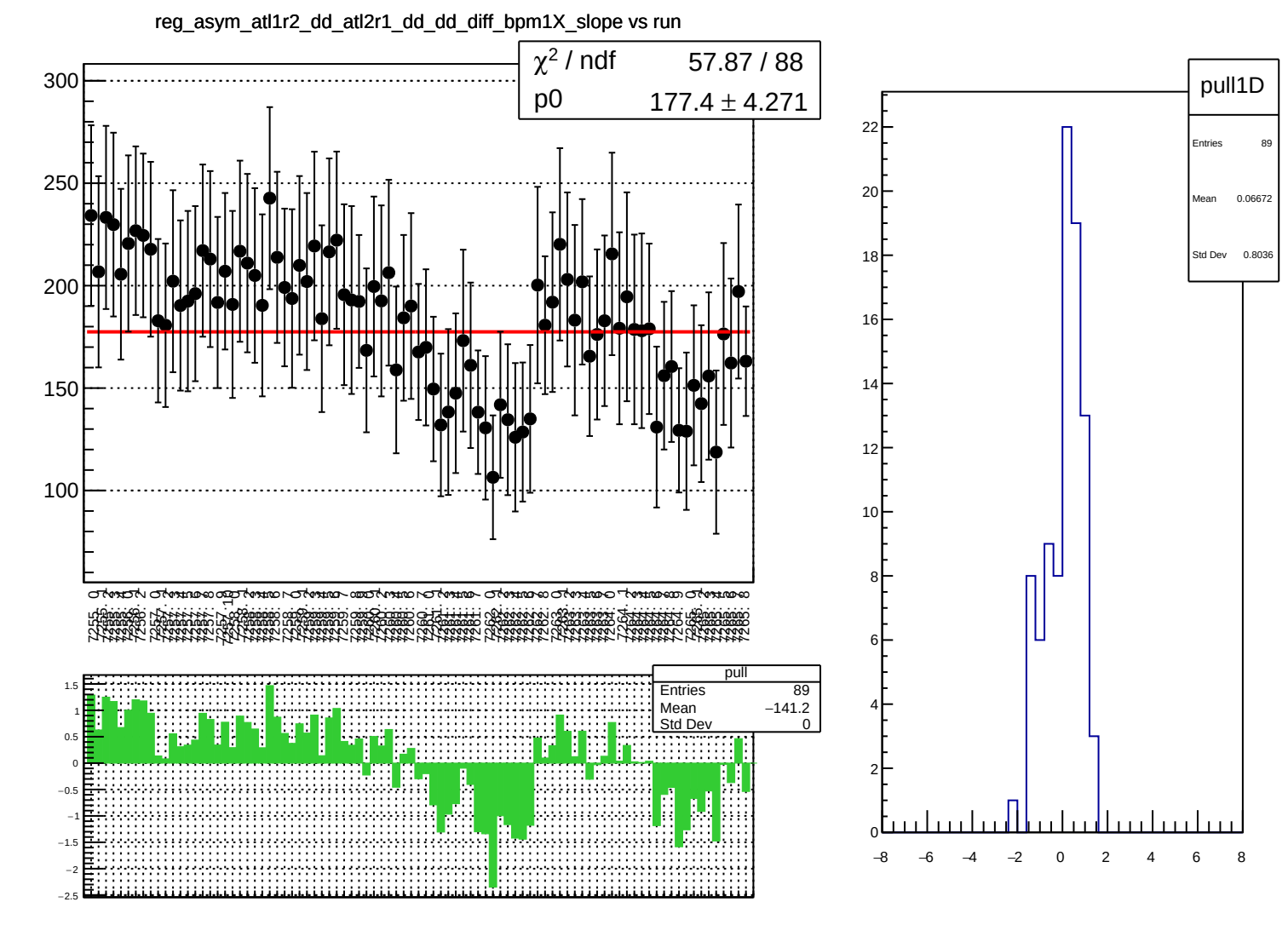

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.64 / 88
p0 8.534 ± 3.733
pull
Entries 89
Mean −1968
Std Dev 0

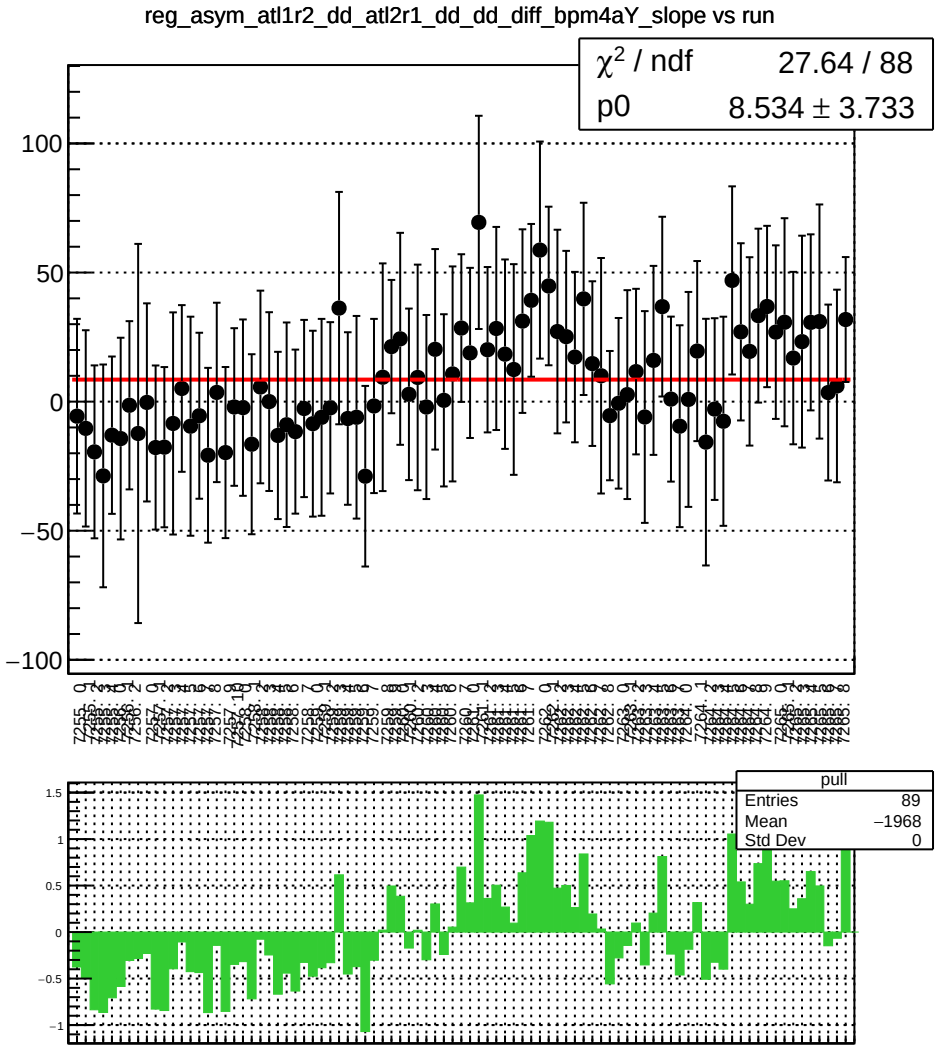

pull1D
Entries 89
Mean −0.00413
Std Dev 0.5573

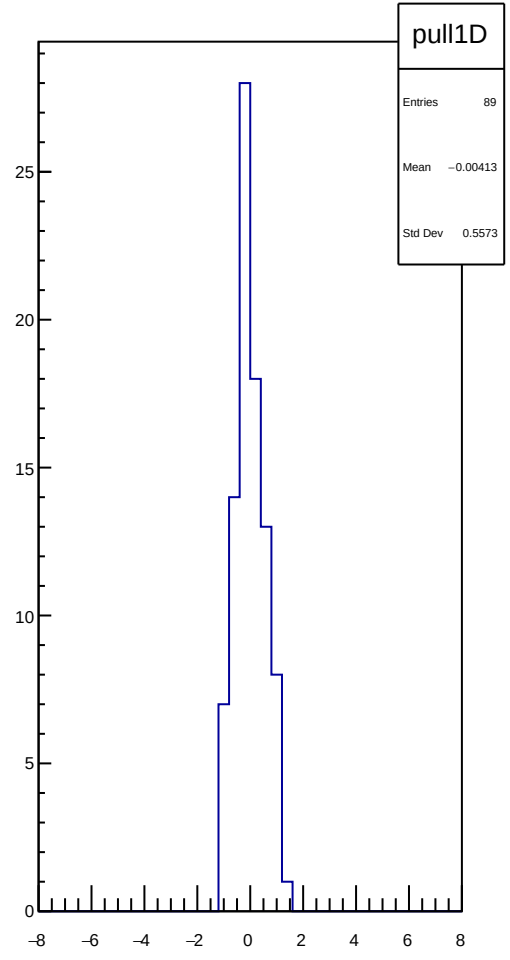

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.74 / 88
p0 −205.9 ± 4.625
pull
Entries 89
Mean −129.7
Std Dev 0
pull1D
Entries 89
Mean −0.07052
Std Dev 0.8093

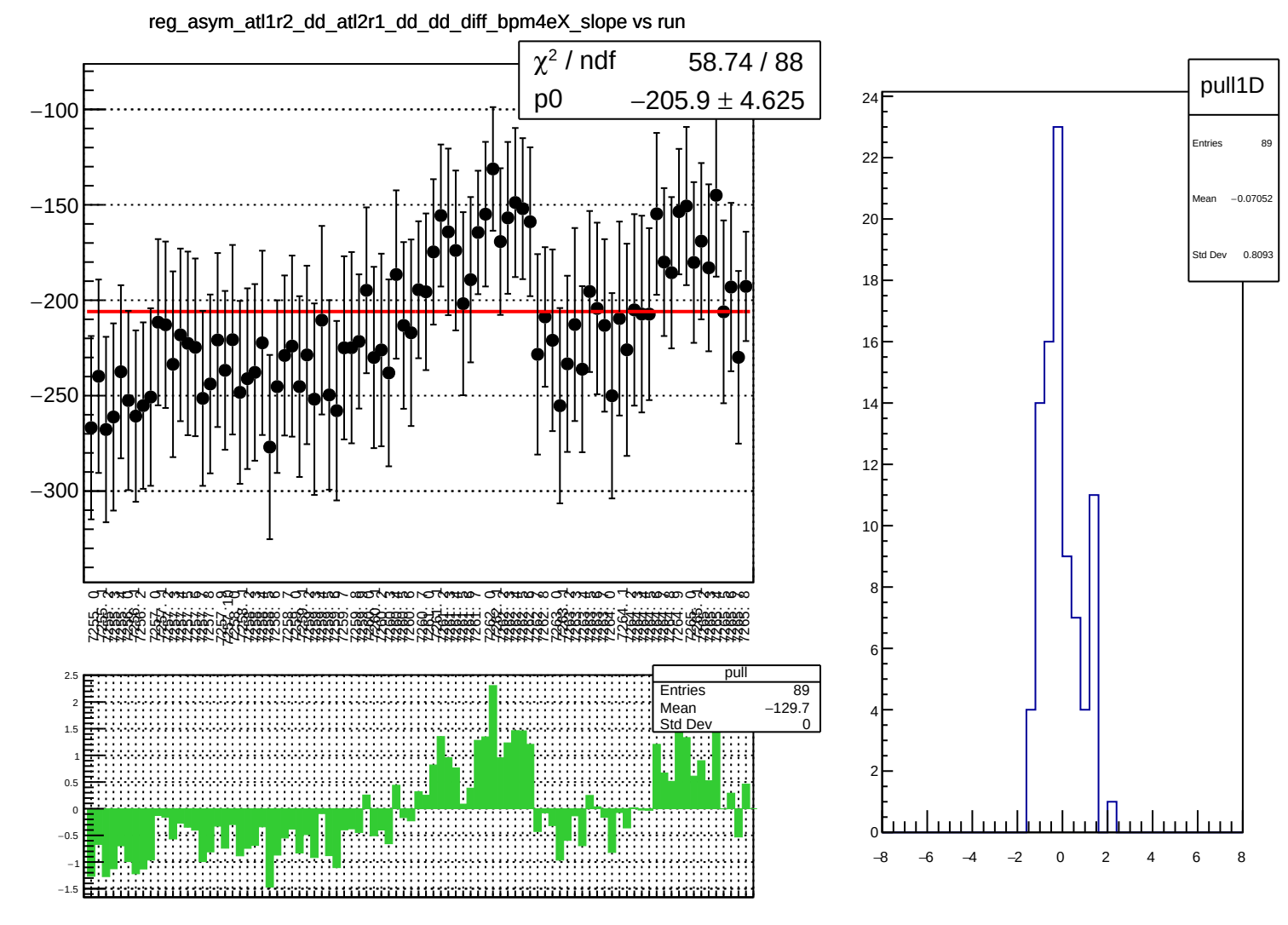

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.74 / 88
p0 −78.59 ± 3.924
pull
Entries 89
Mean −1023
Std Dev 0
pull1D
Entries 89
Mean 0.008102
Std Dev 0.5877

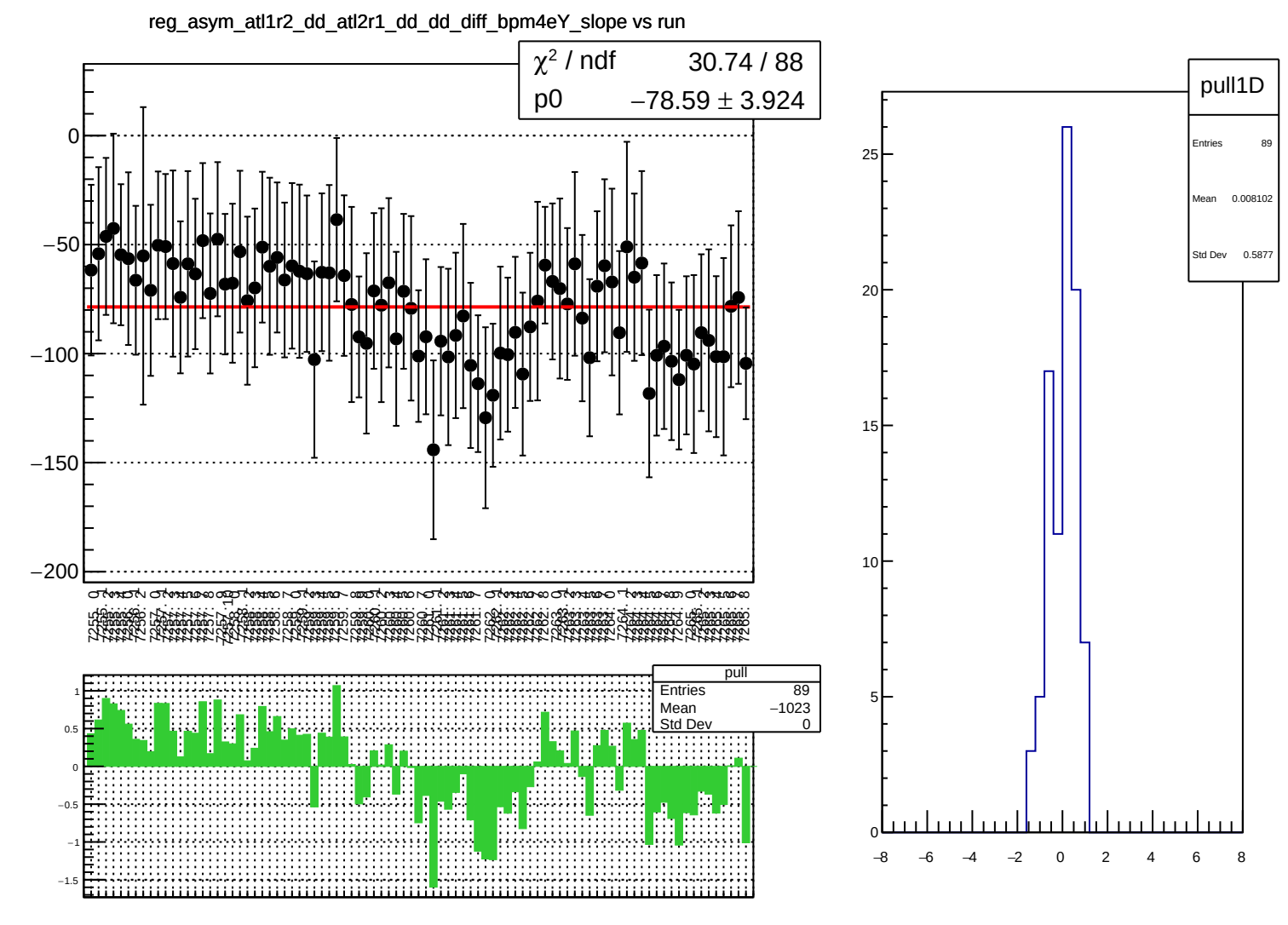

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 91.68 / 88
p0 112.6 ± 0.1625
pull
Entries 89
Mean −1.912e+04
Std Dev 0
pull1D
Entries 89
Mean 0.001134
Std Dev 1.015

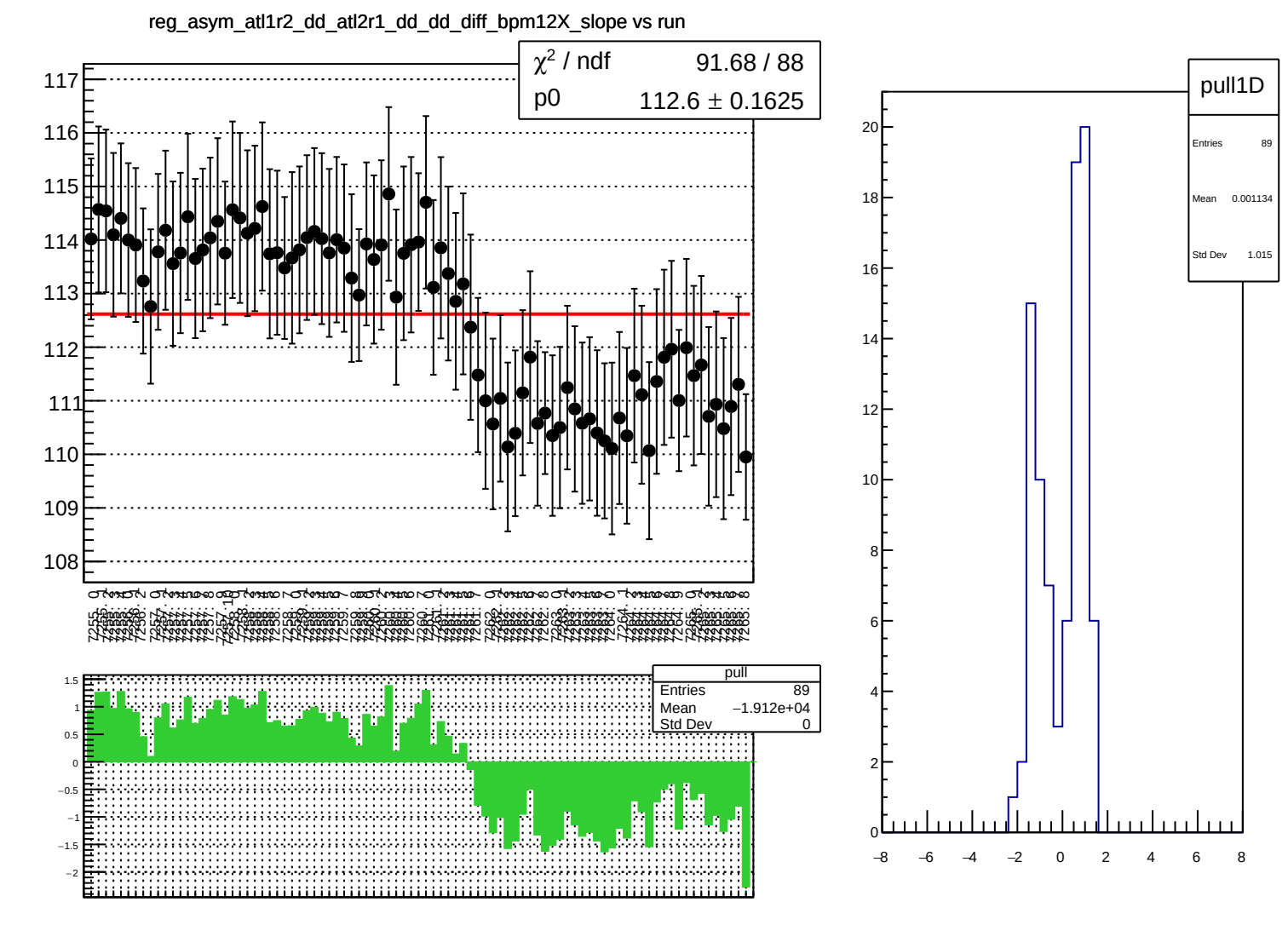

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 57.87 / 88
p0 177.4 ± 4.271
300
250
200
150
100
pull
Entries 89
Mean −141.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.06672
Std Dev 0.8036
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

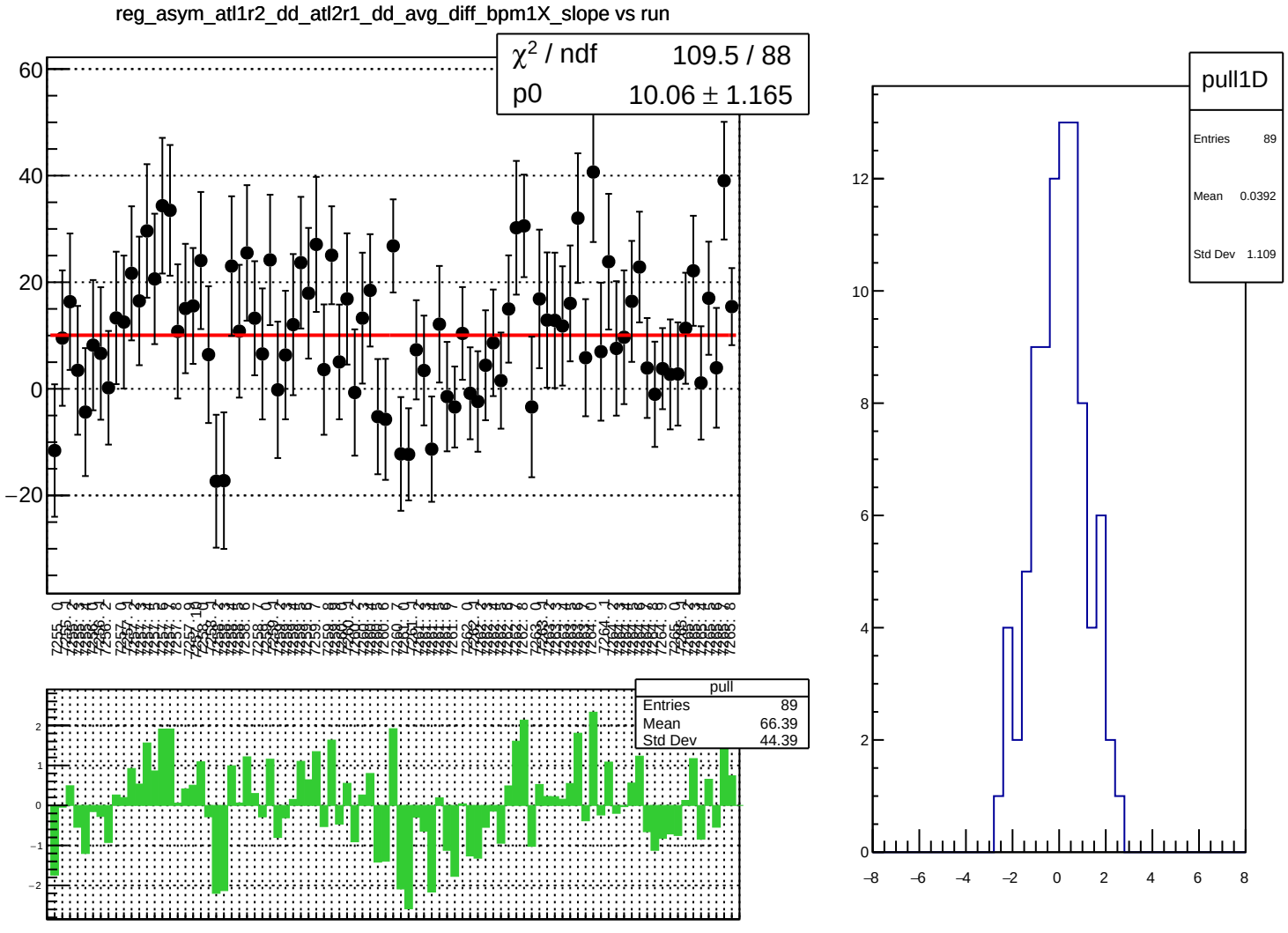

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.64 / 88
p0 8.534 ± 3.733
pull
Entries 89
Mean −1968
Std Dev 0

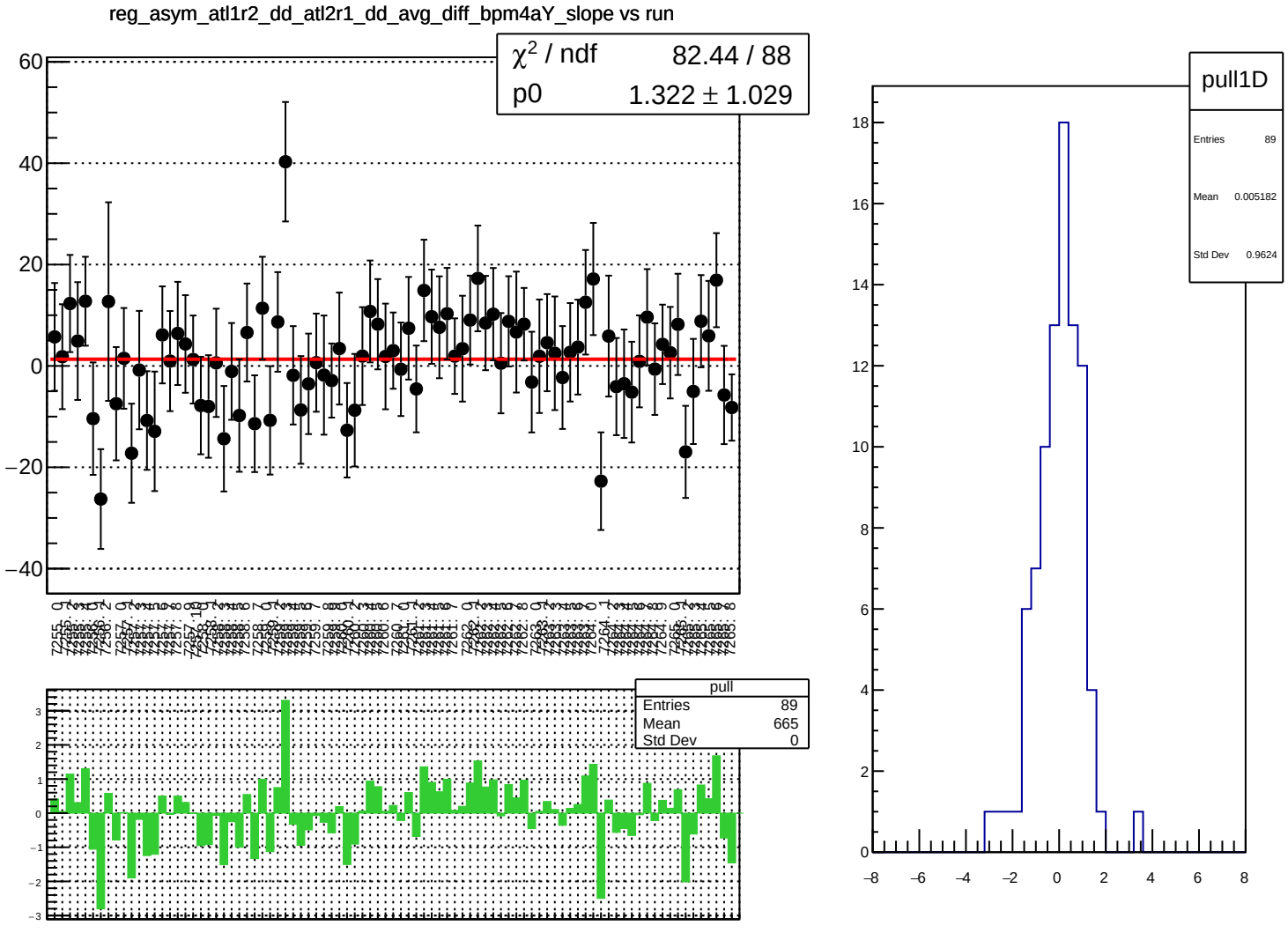

pull1D
Entries 89
Mean −0.00413
Std Dev 0.5573

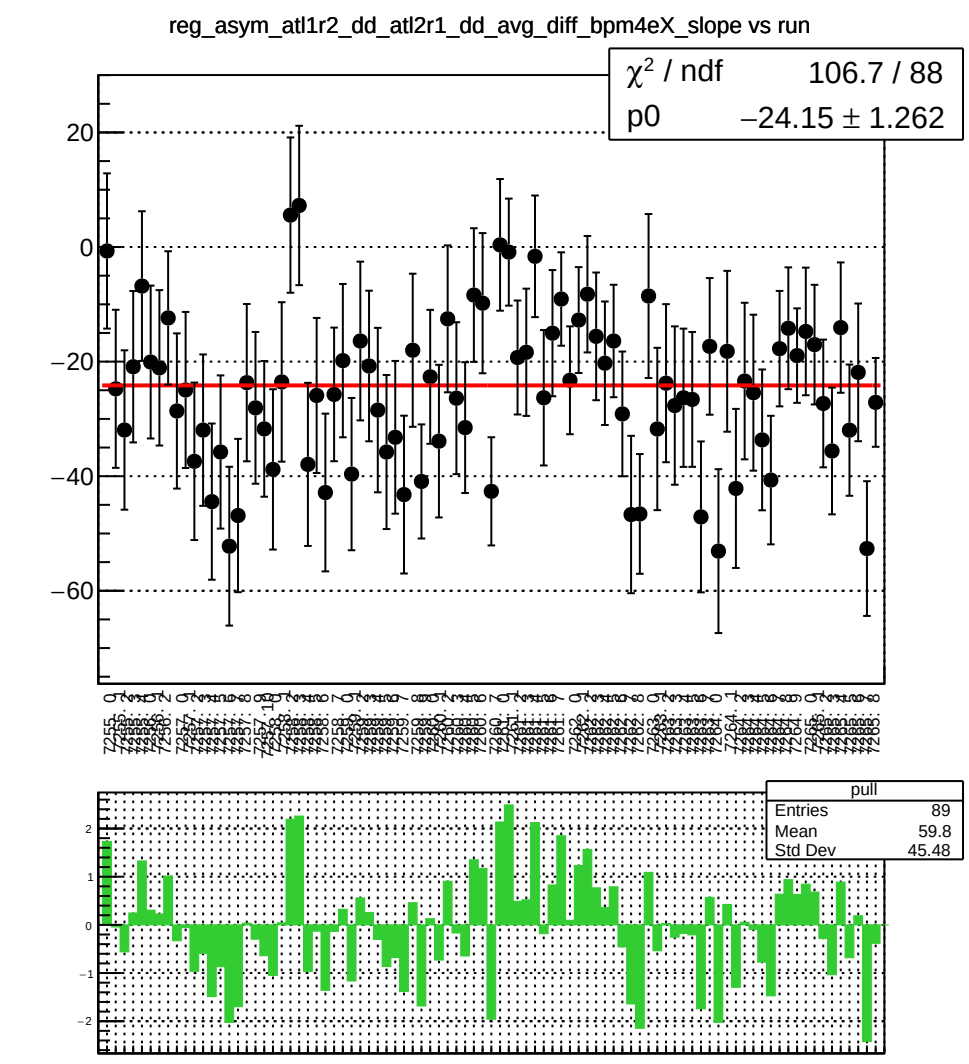

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.74 / 88
p0 −205.9 ± 4.625
pull
Entries 89
Mean −129.7
Std Dev 0
pull1D
Entries 89
Mean −0.07052
Std Dev 0.8093

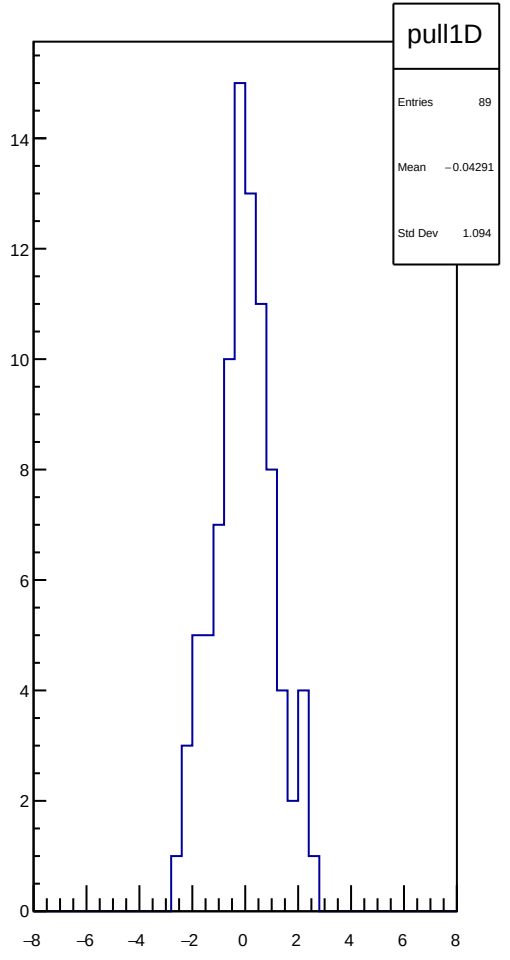

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.74 / 88
p0 −78.59 ± 3.924
pull
Entries 89
Mean −1023
Std Dev 0
pull1D
Entries 89
Mean 0.008102
Std Dev 0.5877

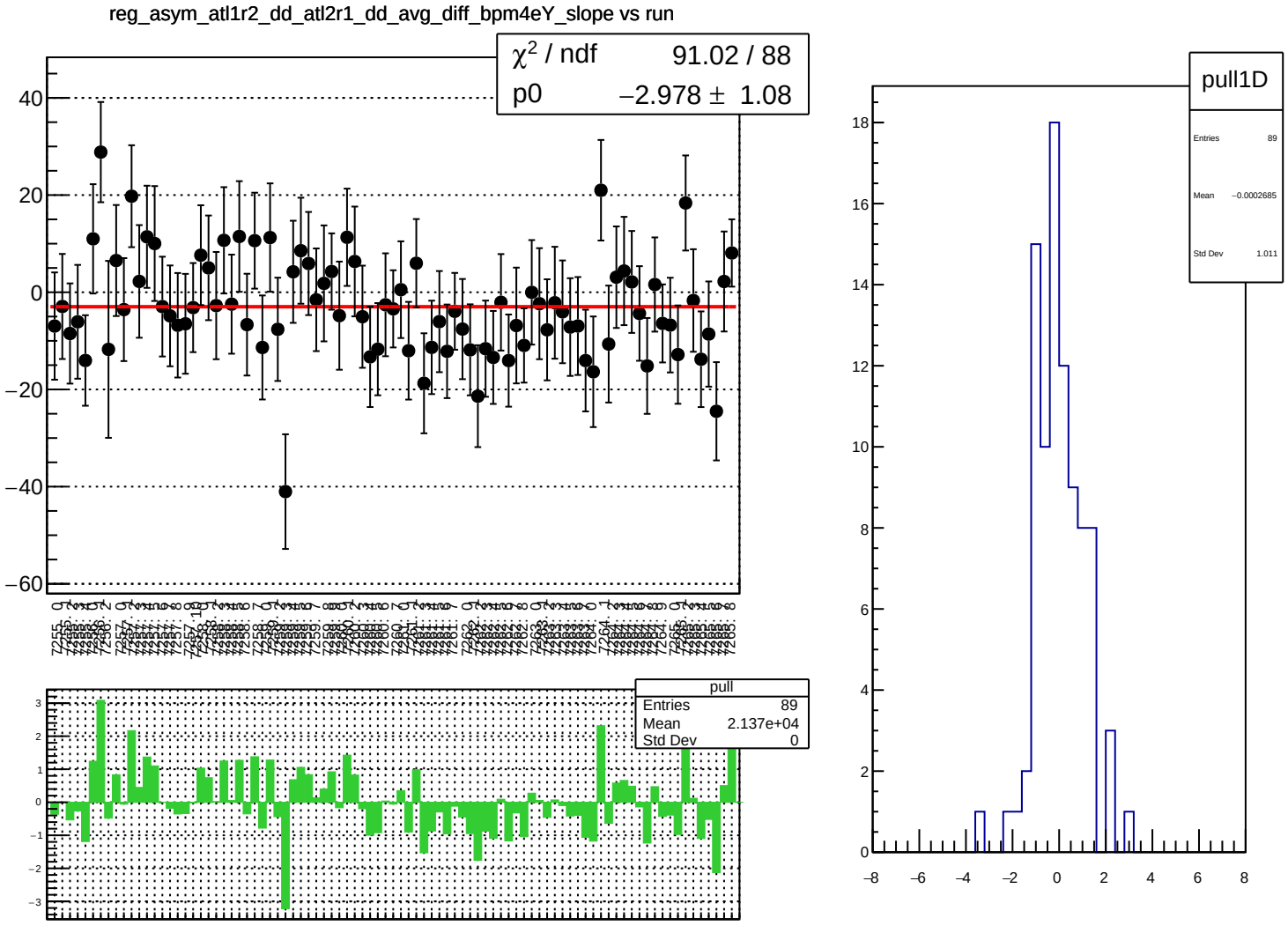

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 91.68 / 88
p0 112.6 ± 0.1625
pull
Entries 89
Mean −1.912e+04
Std Dev 0
pull1D
Entries 89
Mean 0.001134
Std Dev 1.015

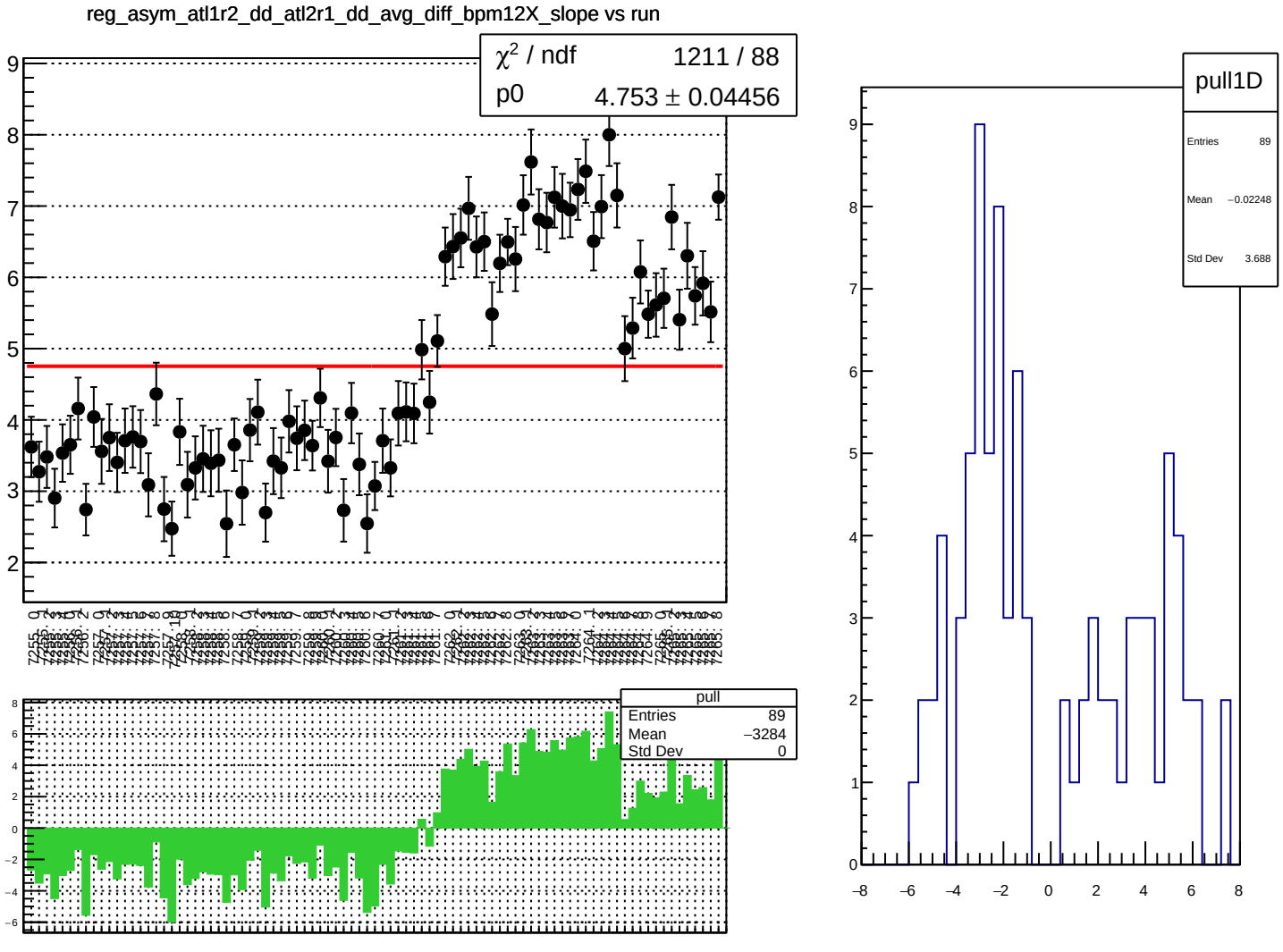

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 109.5 / 88
p0 10.06 ± 1.165
pull
Entries 89
Mean 66.39
Std Dev 44.39
pull1D
Entries 89
Mean 0.0392
Std Dev 1.109

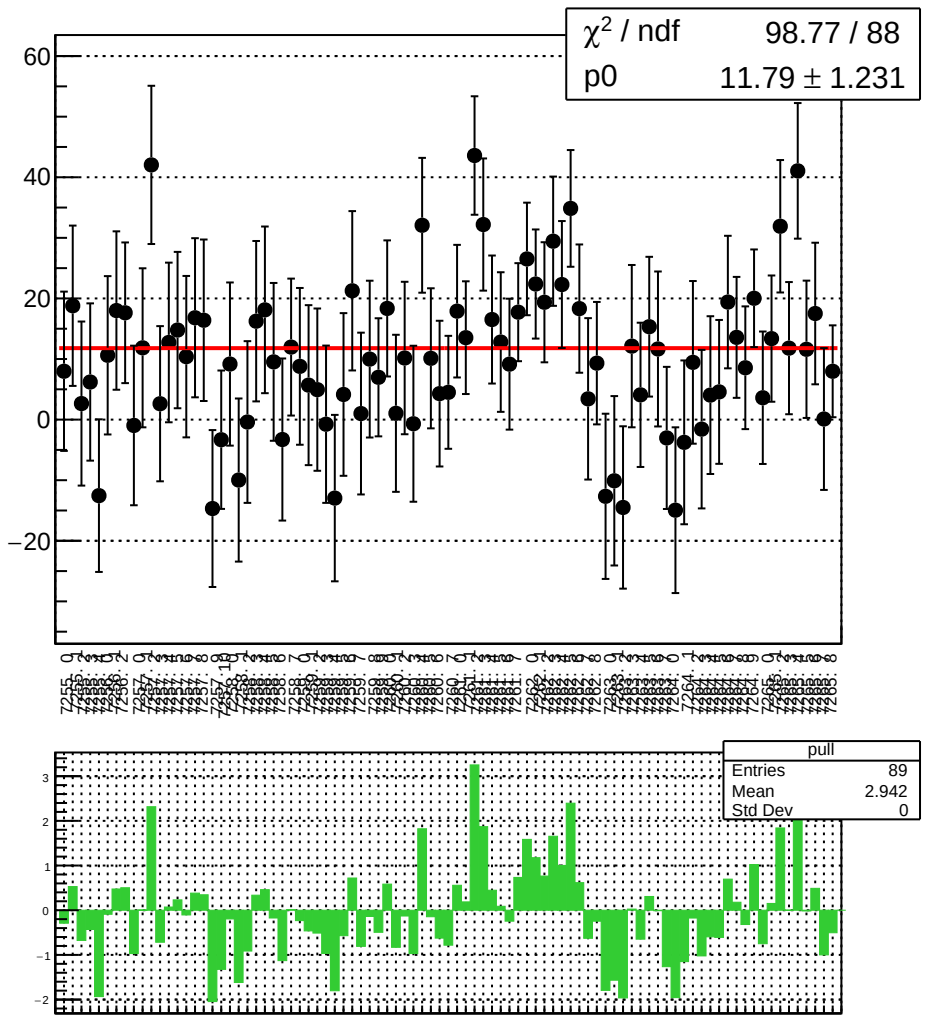

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 82.44 / 88
p0 1.322 ± 1.029
pull
Entries 89
Mean 665
Std Dev 0
pull1D
Entries 89
Mean 0.005182
Std Dev 0.9624

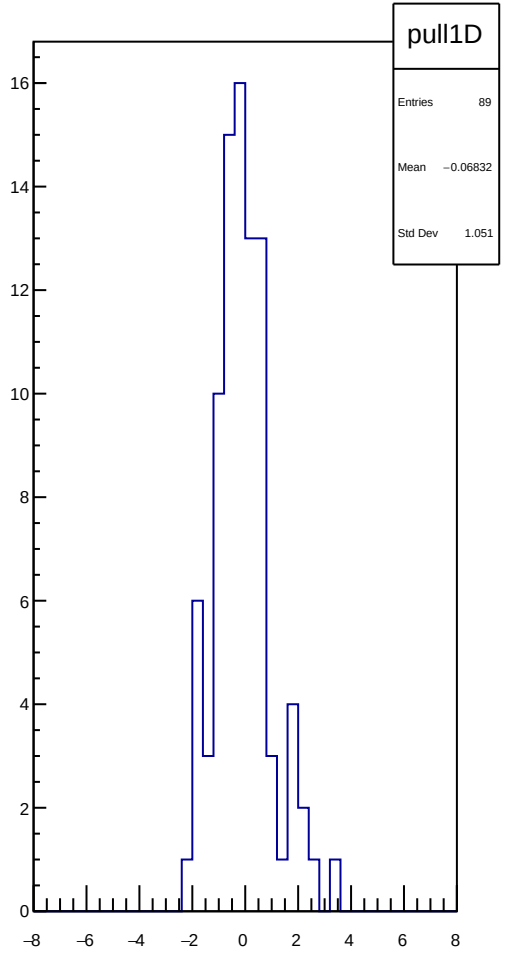

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 106.7 / 88
p0 −24.15 ± 1.262
20
0
−20
−40
−60
pull
Entries 89
Mean 59.8
Std Dev 45.48
2
1
0
−1
−2

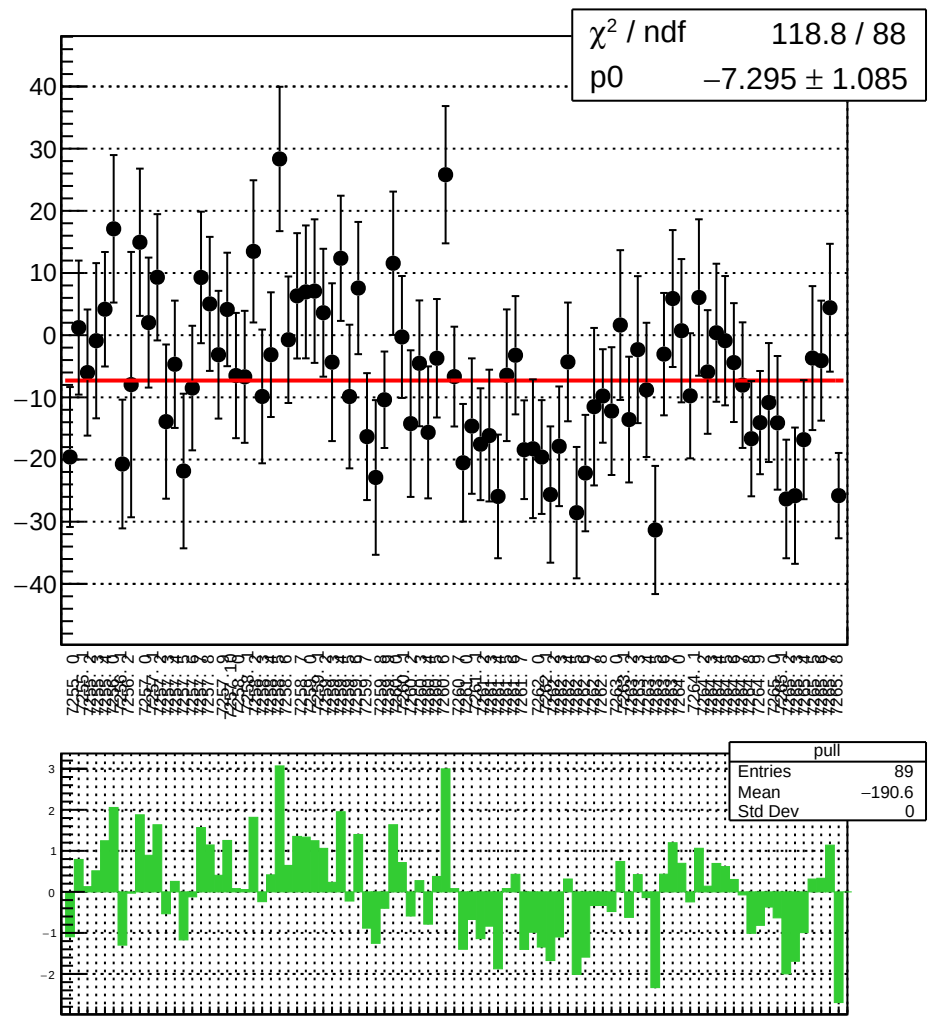

pull1D
Entries 89
Mean −0.04291
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

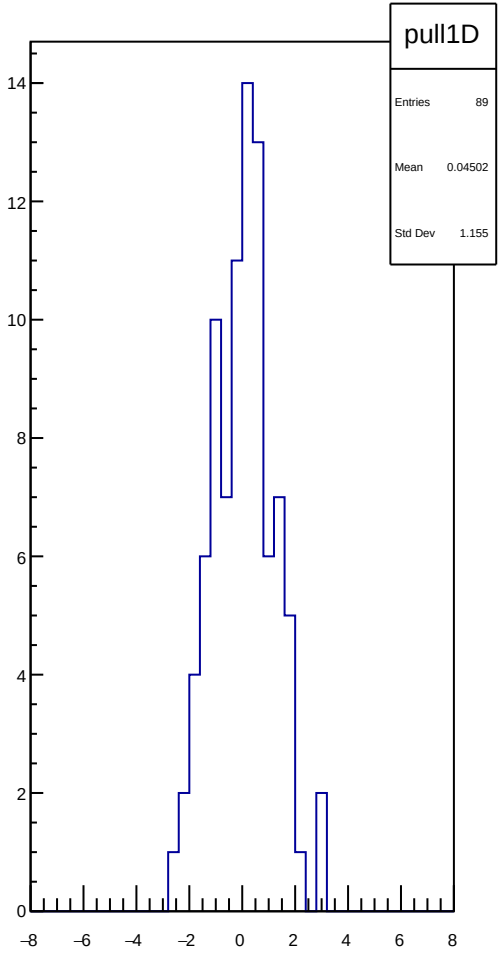

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.02 / 88
p0 −2.978 ± 1.08
pull
Entries 89
Mean 2.137e+04
Std Dev 0
pull1D
Entries 89
Mean −0.0002685
Std Dev 1.011

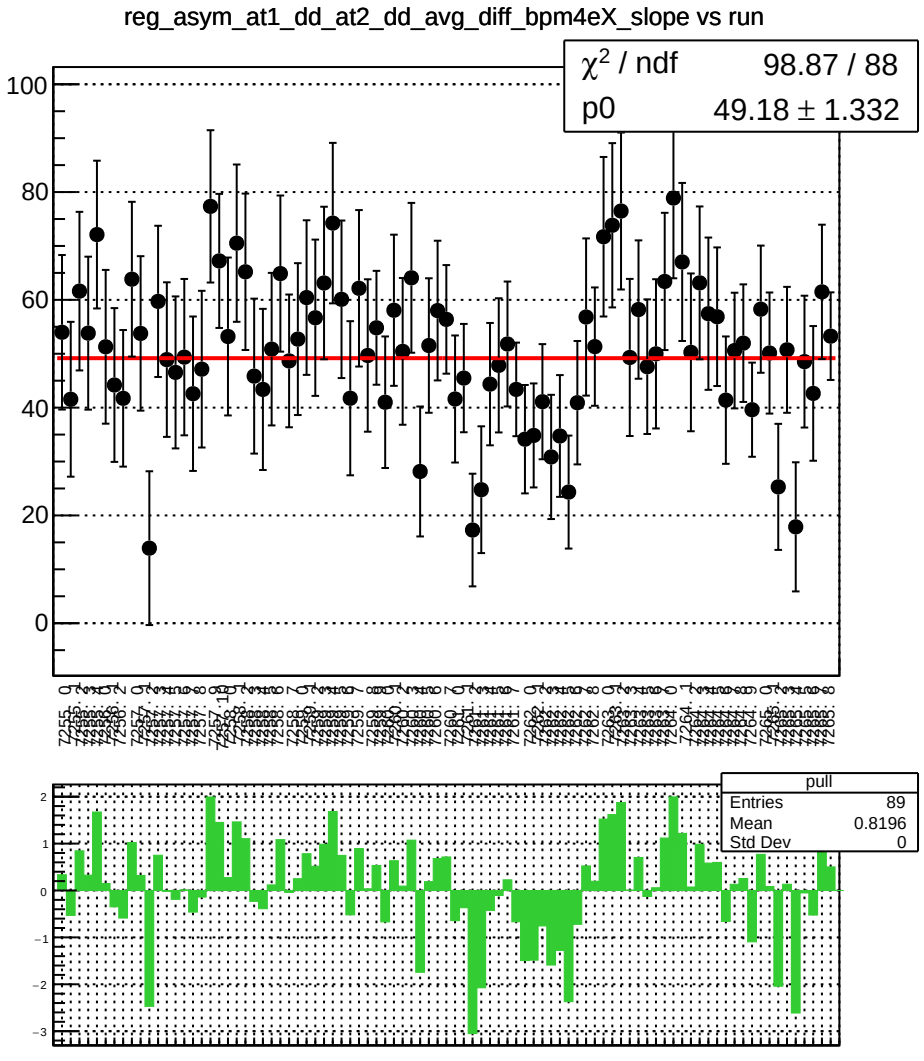

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 1211 / 88
p0 4.753 ± 0.04456
pull
Entries 89
Mean −3284
Std Dev 0
pull1D
Entries 89
Mean −0.02248
Std Dev 3.688

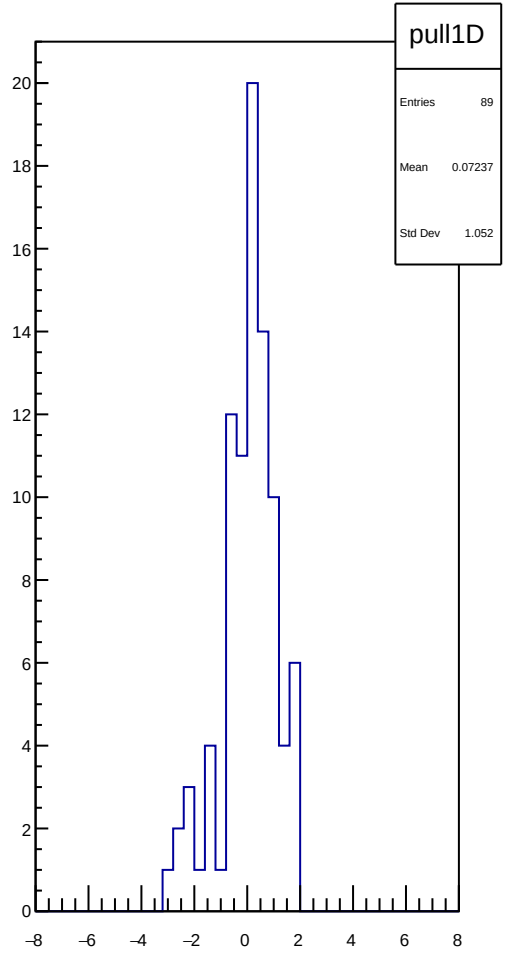

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 98.77 / 88
p0 11.79 ± 1.231
60
40
20
0
−20
pull
Entries 89
Mean 2.942
Std Dev 0
3
2
1
0
−1
−2

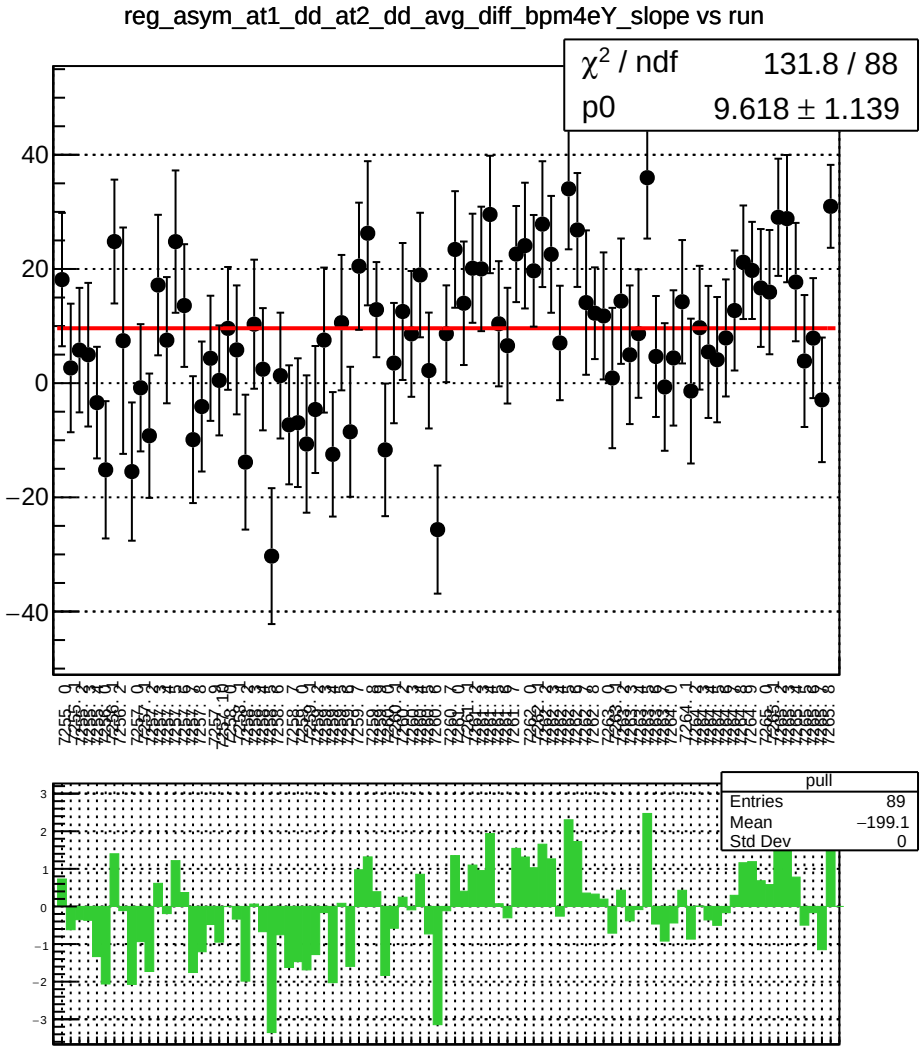

pull1D
Entries 89
Mean −0.06832
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

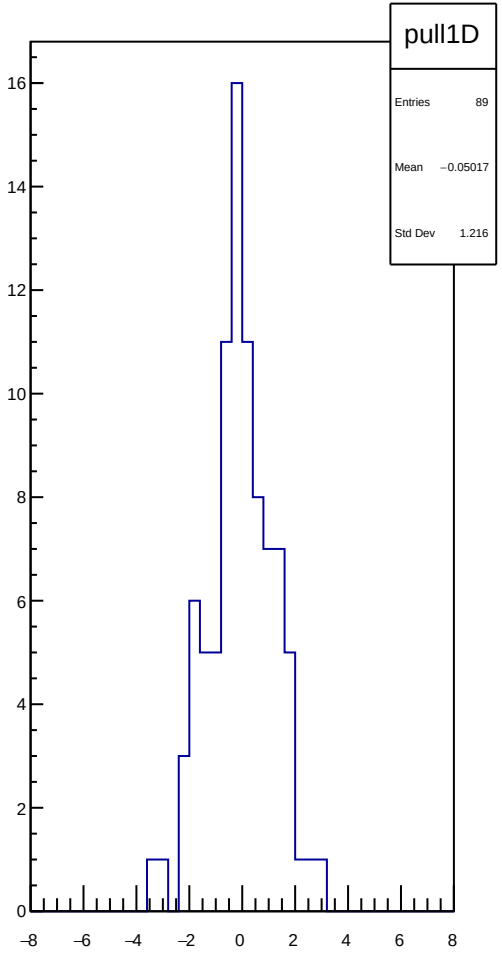

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 118.8 / 88
p0 −7.295 ± 1.085
pull
Entries 89
Mean −190.6
Std Dev 0

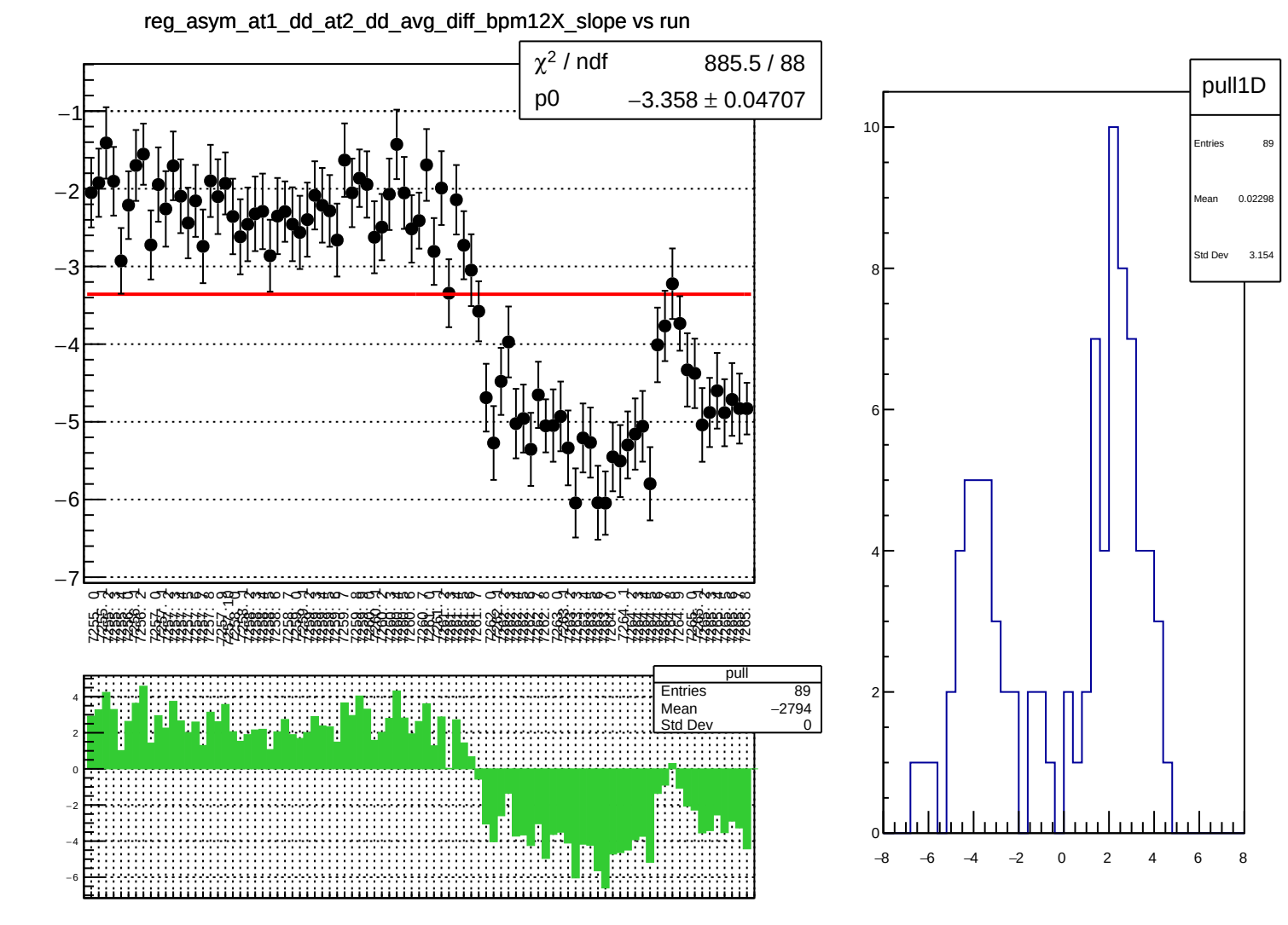

pull1D
Entries 89
Mean 0.04502
Std Dev 1.155

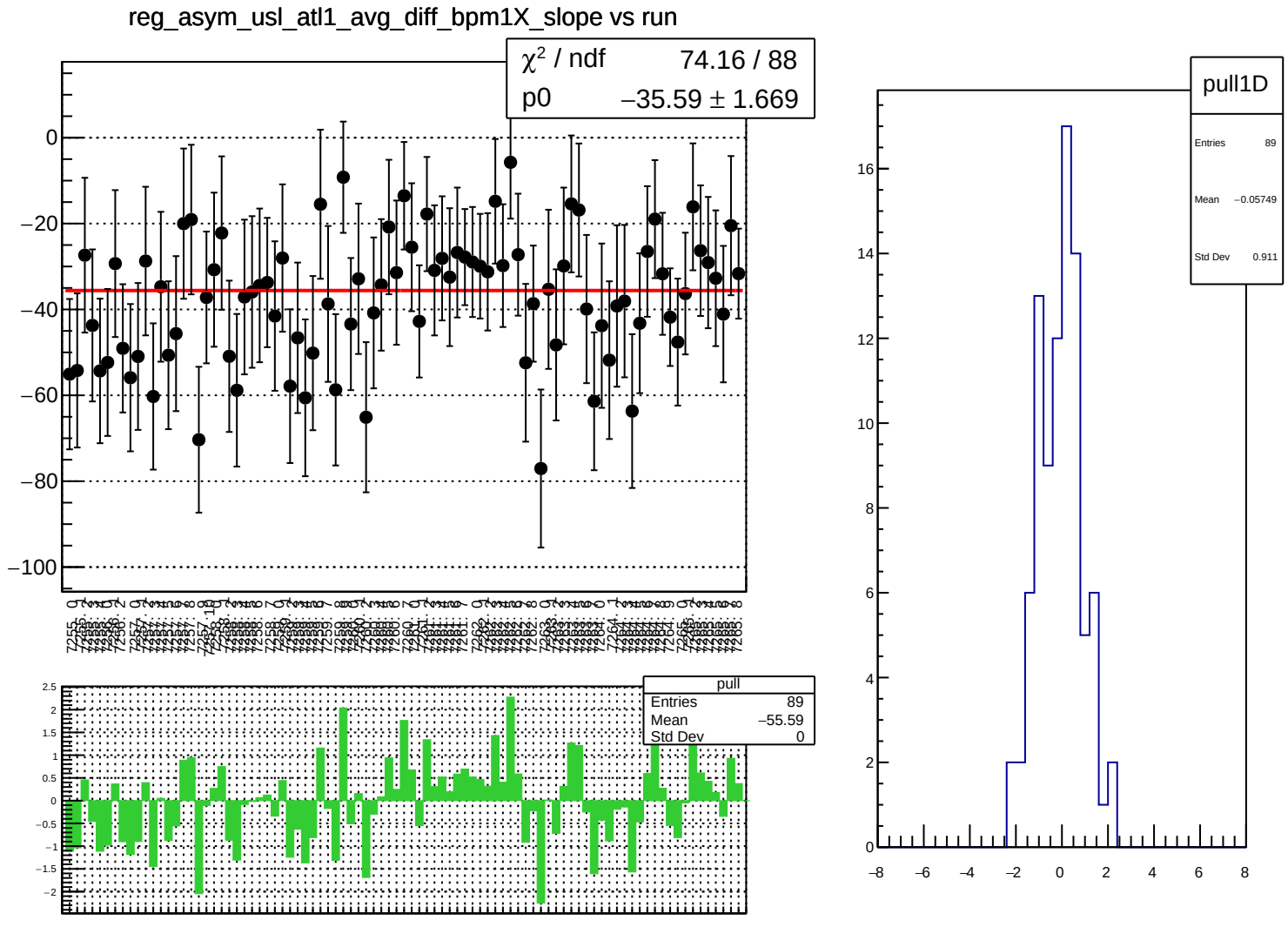

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 98.87 / 88
p0 49.18 ± 1.332
pull
Entries 89
Mean 0.8196
Std Dev 0

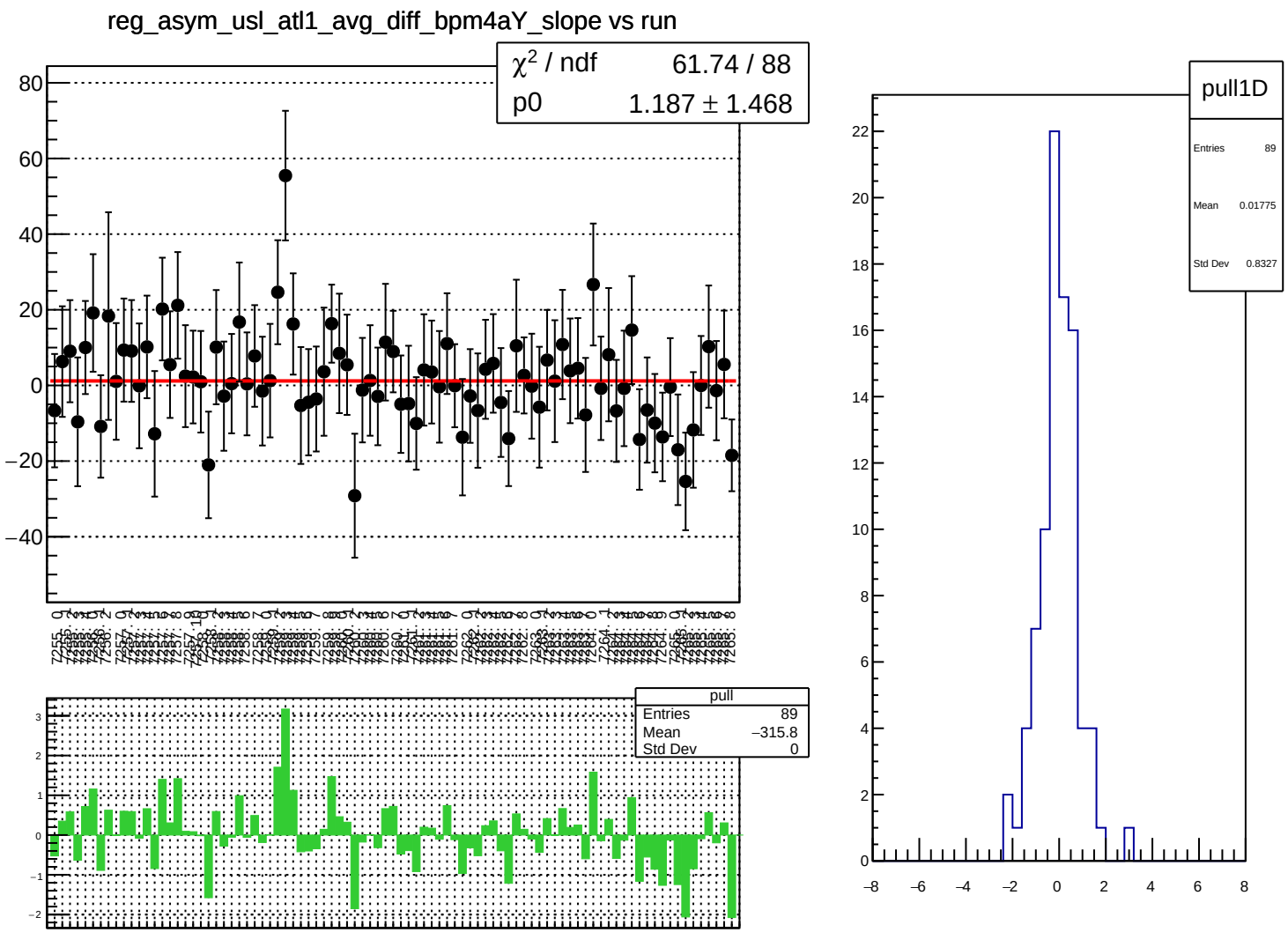

pull1D
Entries 89
Mean 0.07237
Std Dev 1.052

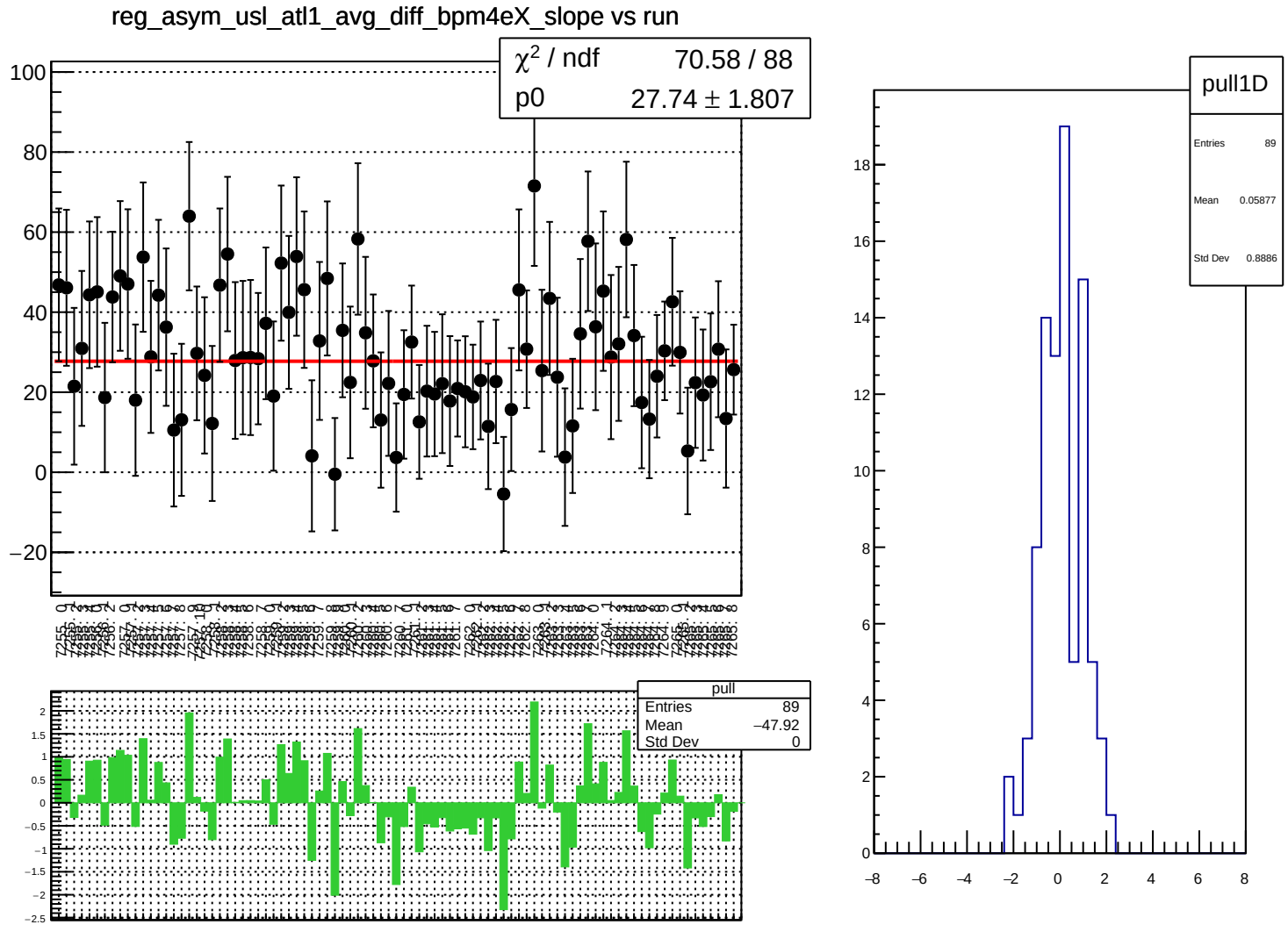

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 131.8 / 88
p0 9.618 ± 1.139
pull
Entries 89
Mean −199.1
Std Dev 0

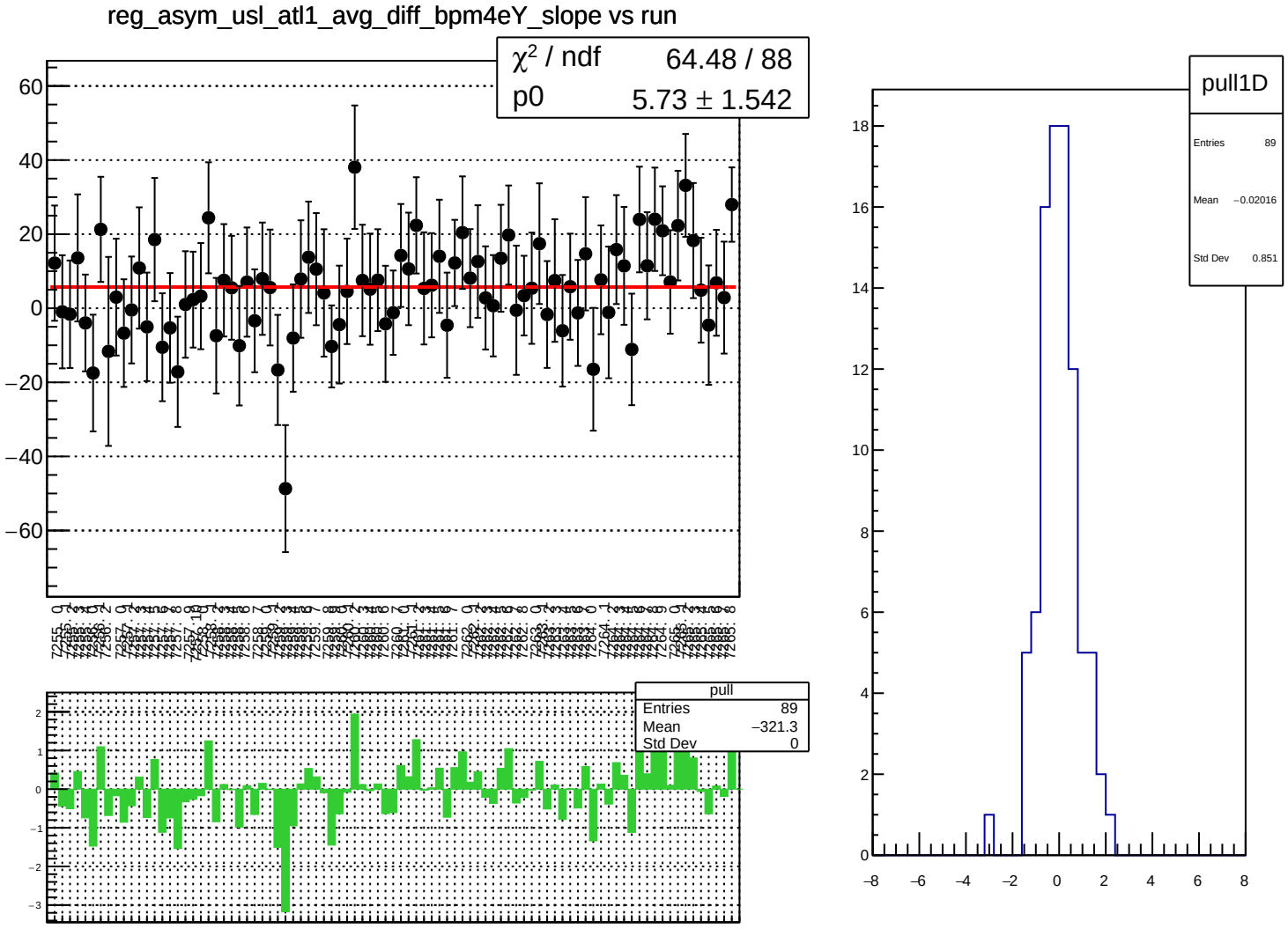

pull1D
Entries 89
Mean −0.05017
Std Dev 1.216

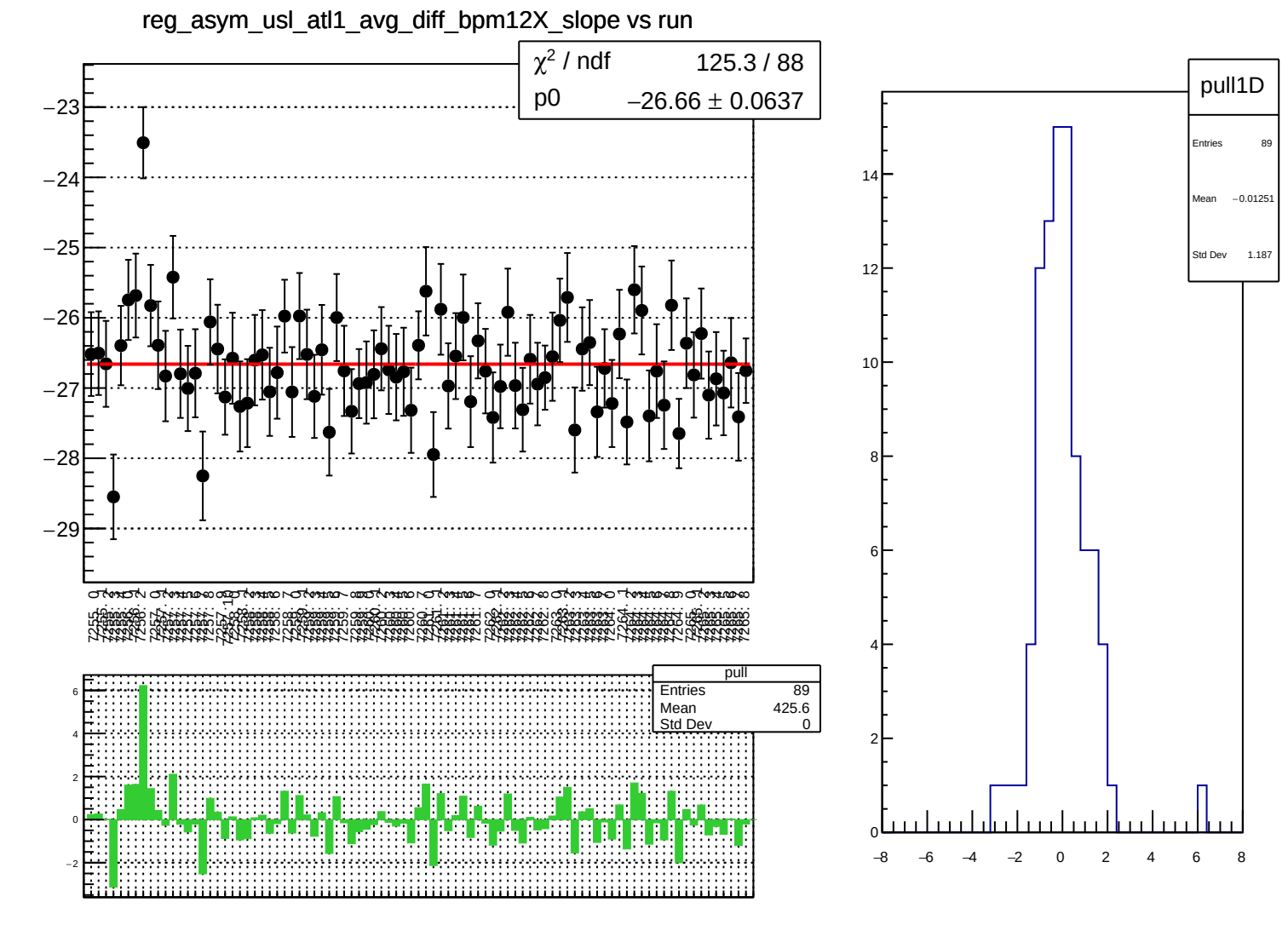

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 885.5 / 88
p0 −3.358 ± 0.04707
pull
Entries 89
Mean −2794
Std Dev 0
pull1D
Entries 89
Mean 0.02298
Std Dev 3.154

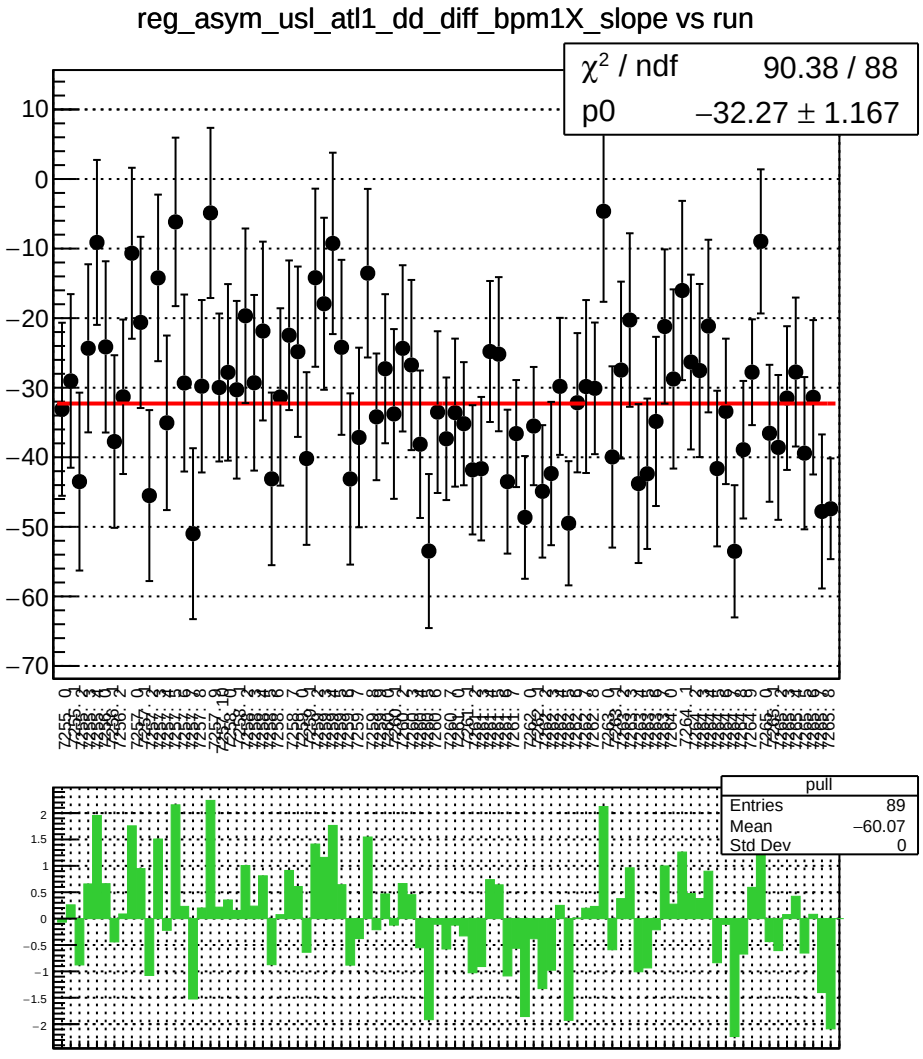

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 74.16 / 88
p0 −35.59 ± 1.669
pull
Entries 89
Mean −55.59
Std Dev 0
pull1D
Entries 89
Mean −0.05749
Std Dev 0.911

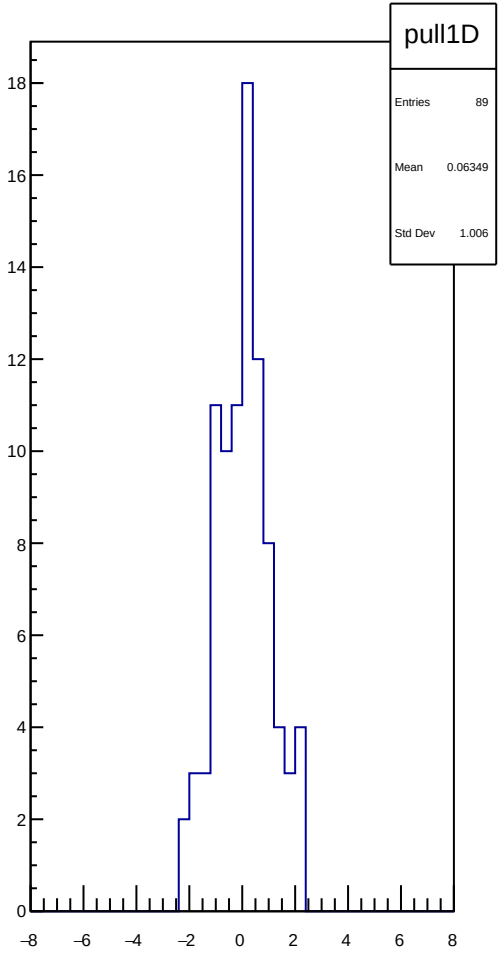

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 61.74 / 88
p0 1.187 ± 1.468
pull
Entries 89
Mean −315.8
Std Dev 0
pull1D
Entries 89
Mean 0.01775
Std Dev 0.8327

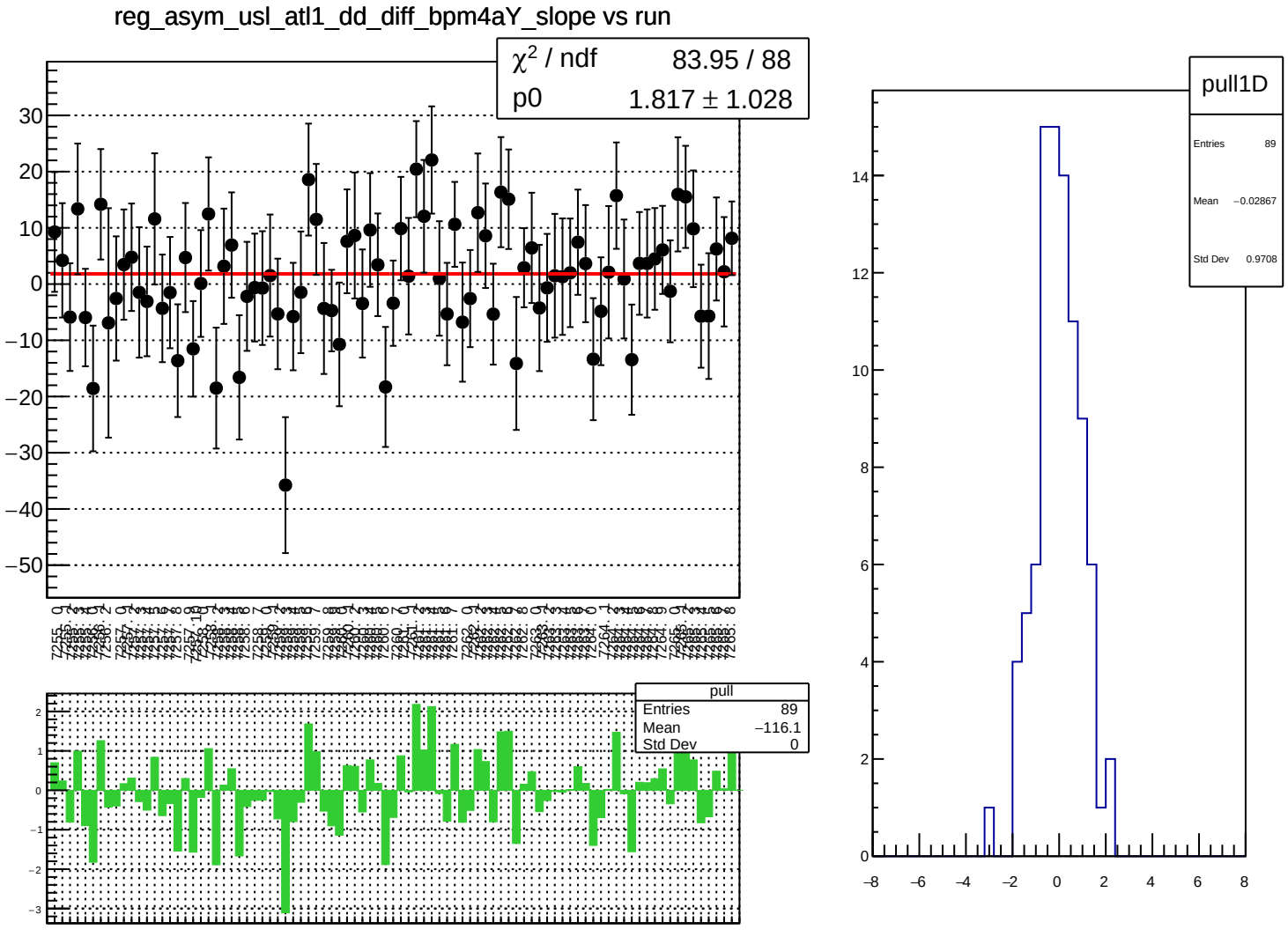

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 70.58 / 88
p0 27.74 ± 1.807
pull
Entries 89
Mean −47.92
Std Dev 0
pull1D
Entries 89
Mean 0.05877
Std Dev 0.8886

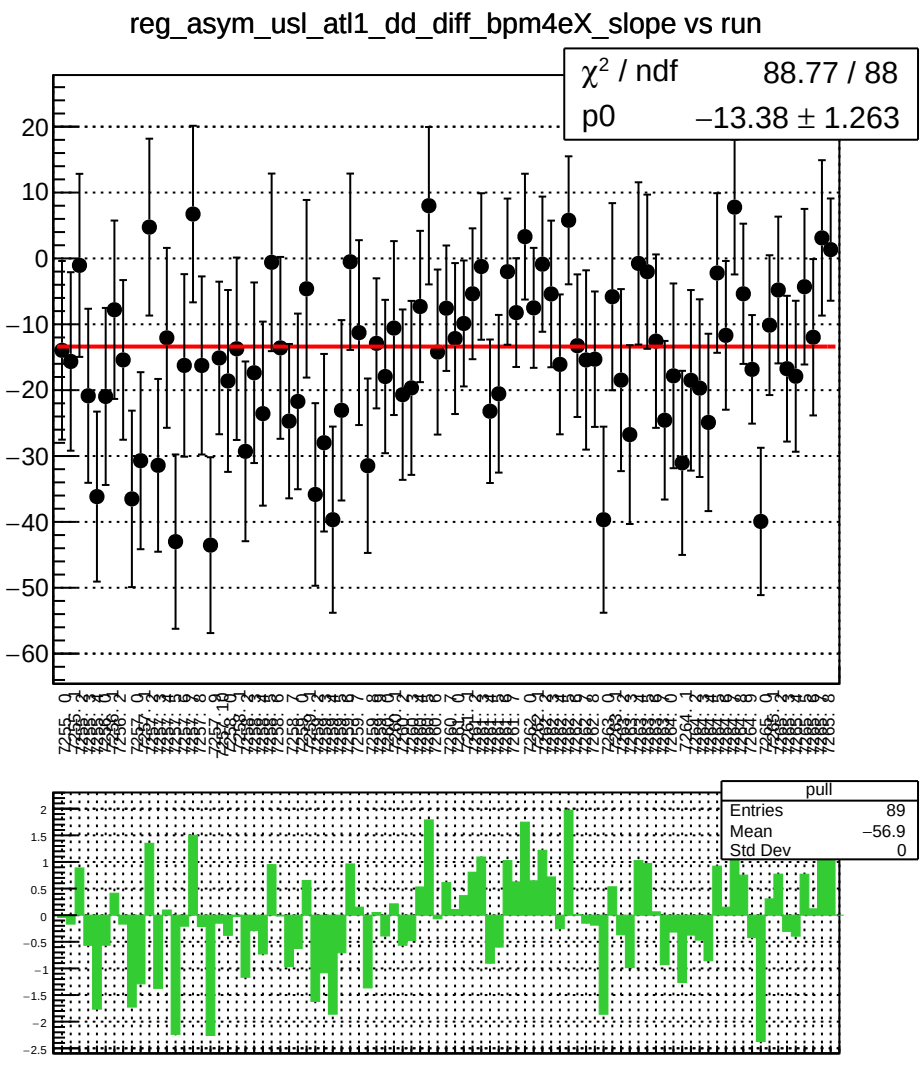

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 64.48 / 88
p0 5.73 ± 1.542
pull
Entries 89
Mean −321.3
Std Dev 0
pull1D
Entries 89
Mean −0.02016
Std Dev 0.851

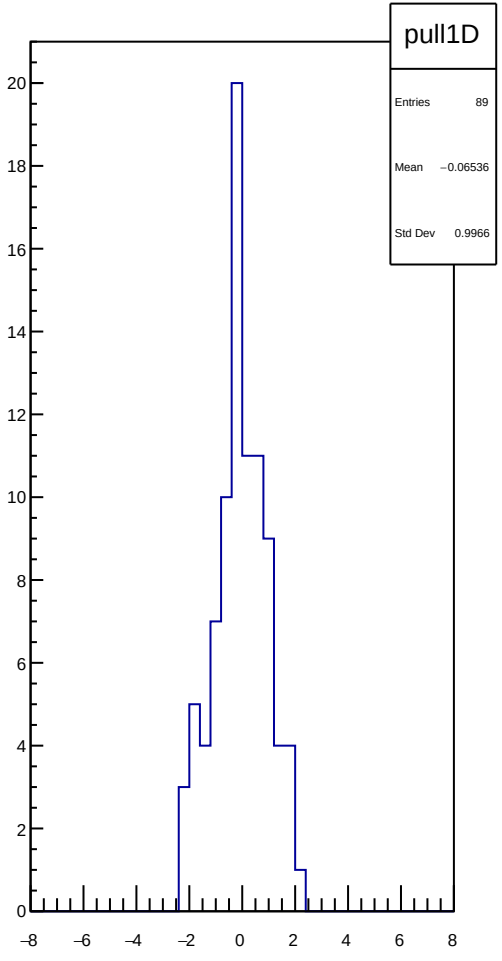

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 125.3 / 88
p0 −26.66 ± 0.0637
pull
Entries 89
Mean 425.6
Std Dev 0
pull1D
Entries 89
Mean −0.01251
Std Dev 1.187

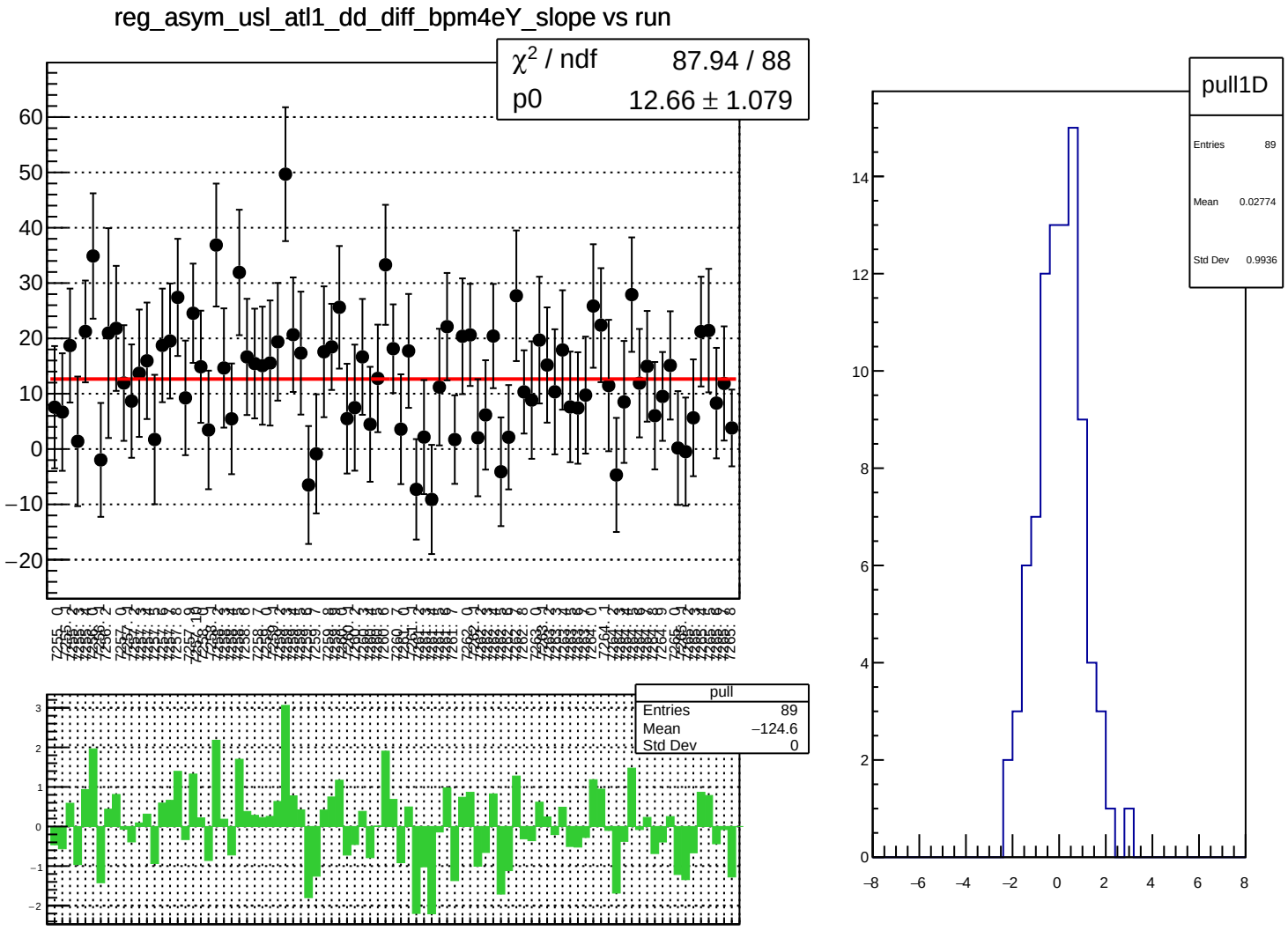

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 90.38 / 88
p0 −32.27 ± 1.167
pull
Entries 89
Mean −60.07
Std Dev 0

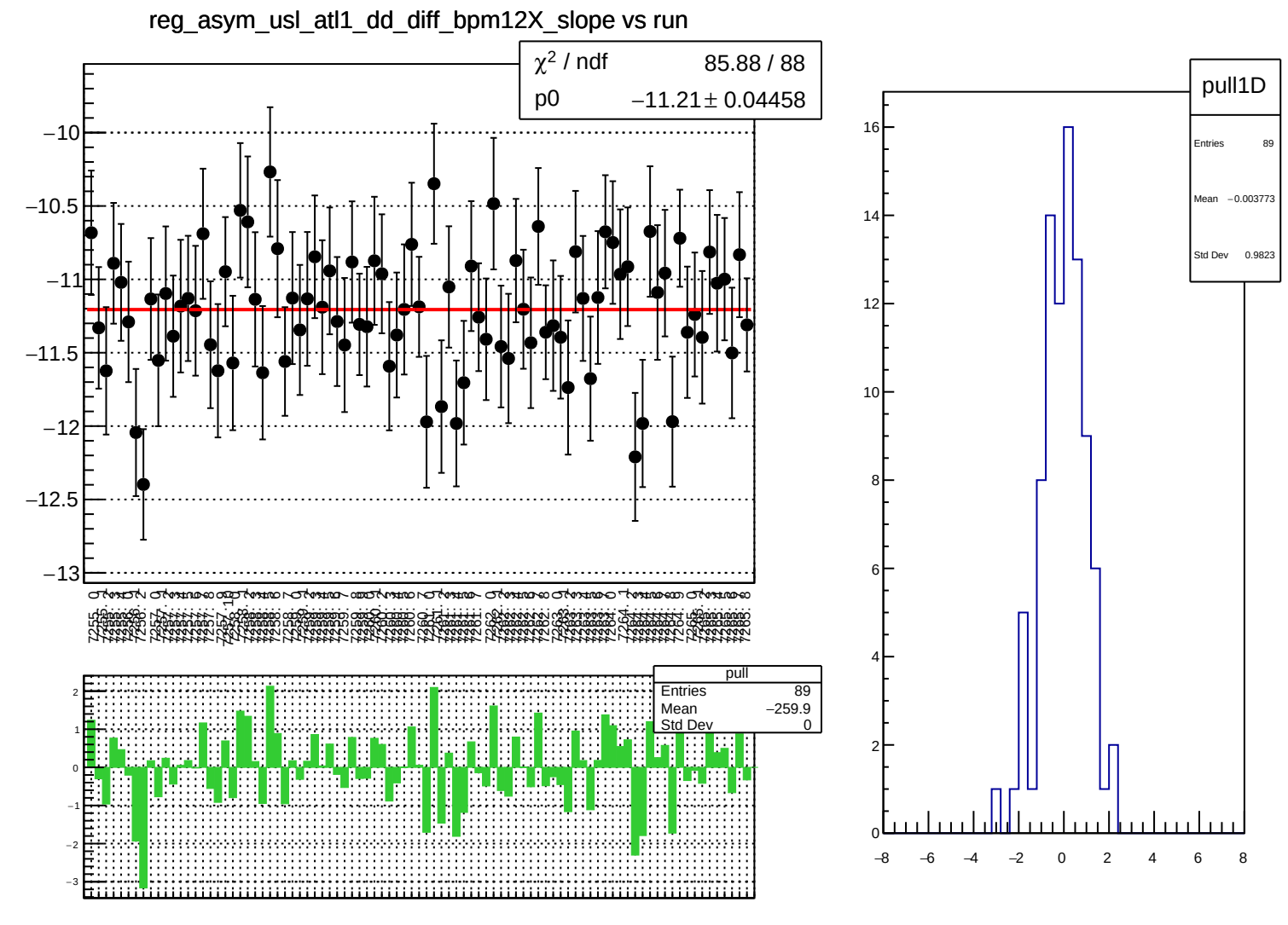

pull1D
Entries 89
Mean 0.06349
Std Dev 1.006

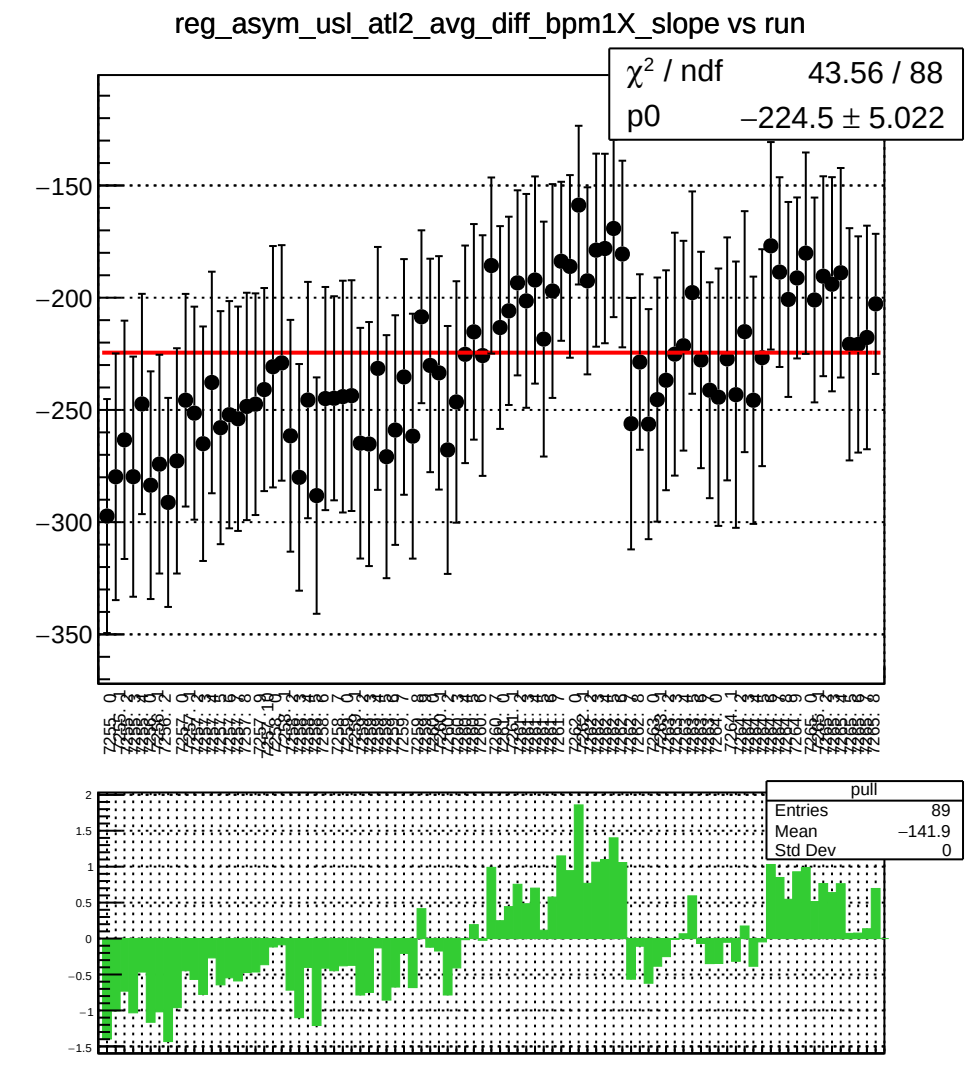

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.95 / 88
p0 1.817 ± 1.028
pull
Entries 89
Mean −116.1
Std Dev 0
pull1D
Entries 89
Mean −0.02867
Std Dev 0.9708

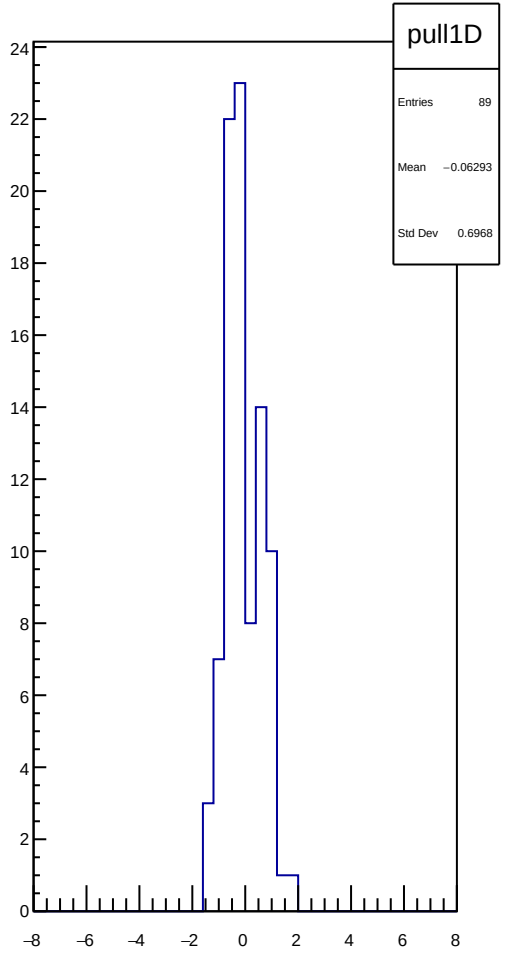

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.77 / 88
p0 −13.38 ± 1.263
pull
Entries 89
Mean −56.9
Std Dev 0

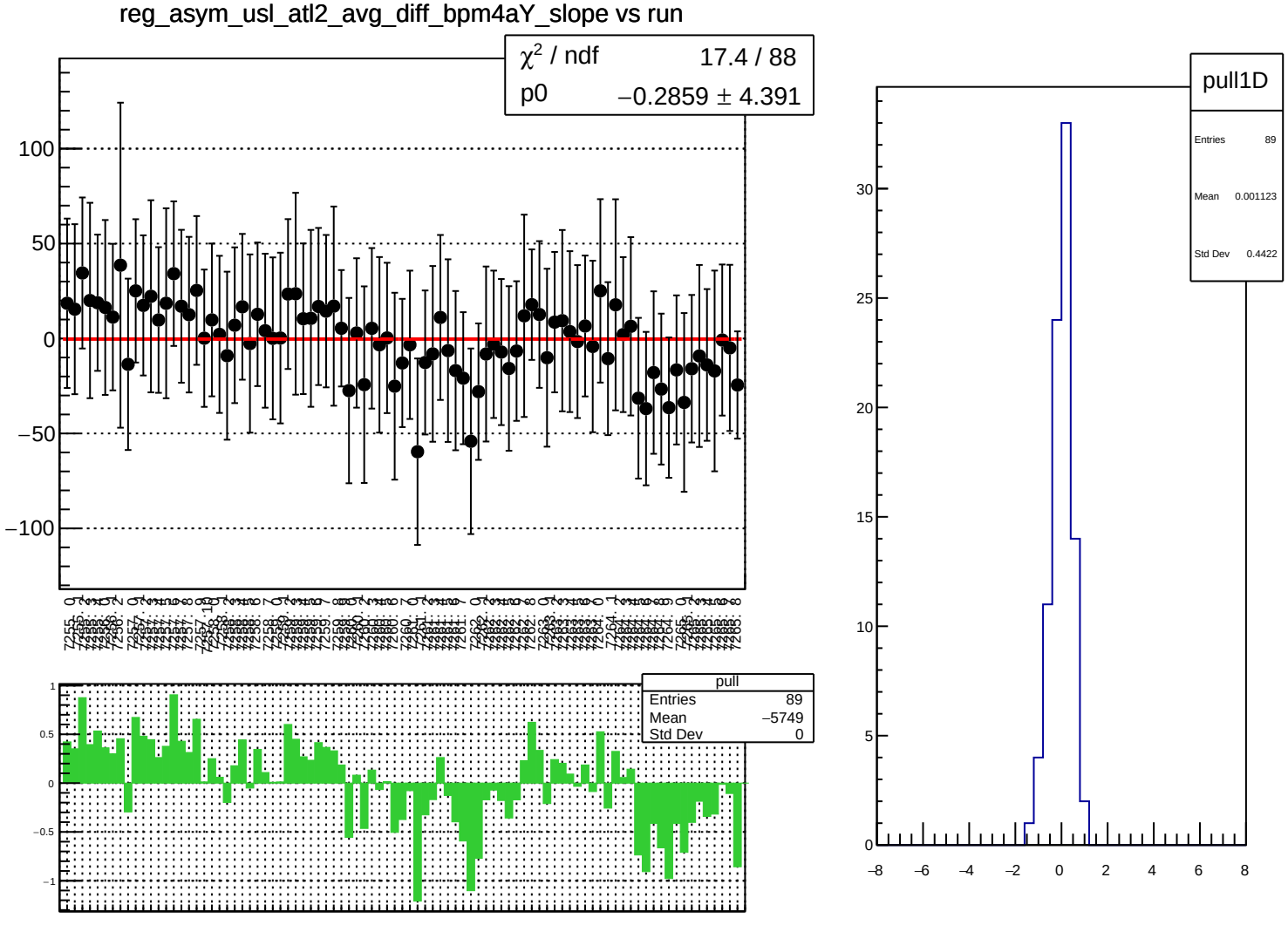

pull1D
Entries 89
Mean −0.06536
Std Dev 0.9966

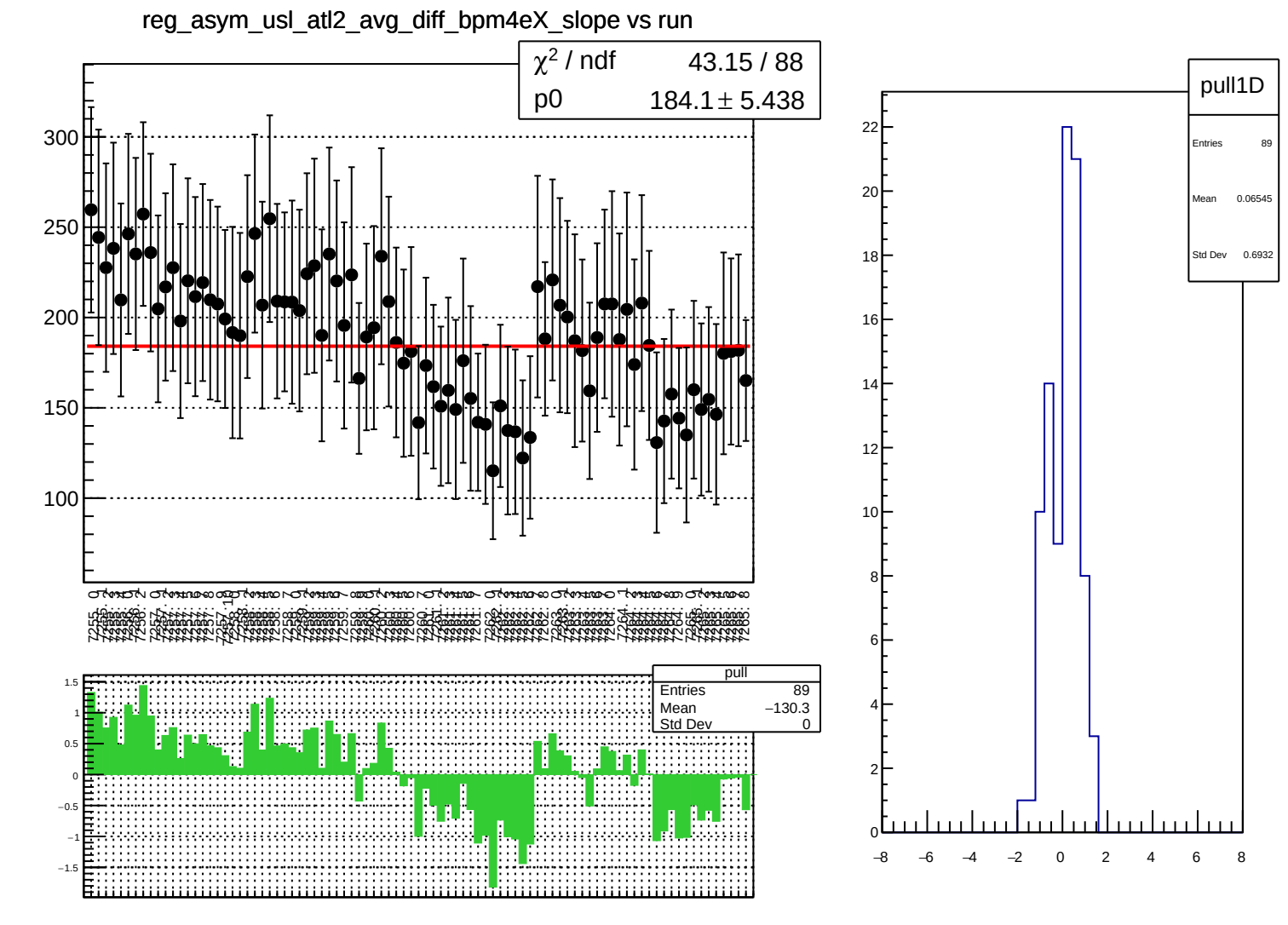

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 87.94 / 88
p0 12.66 ± 1.079
pull
Entries 89
Mean −124.6
Std Dev 0
pull1D
Entries 89
Mean 0.02774
Std Dev 0.9936

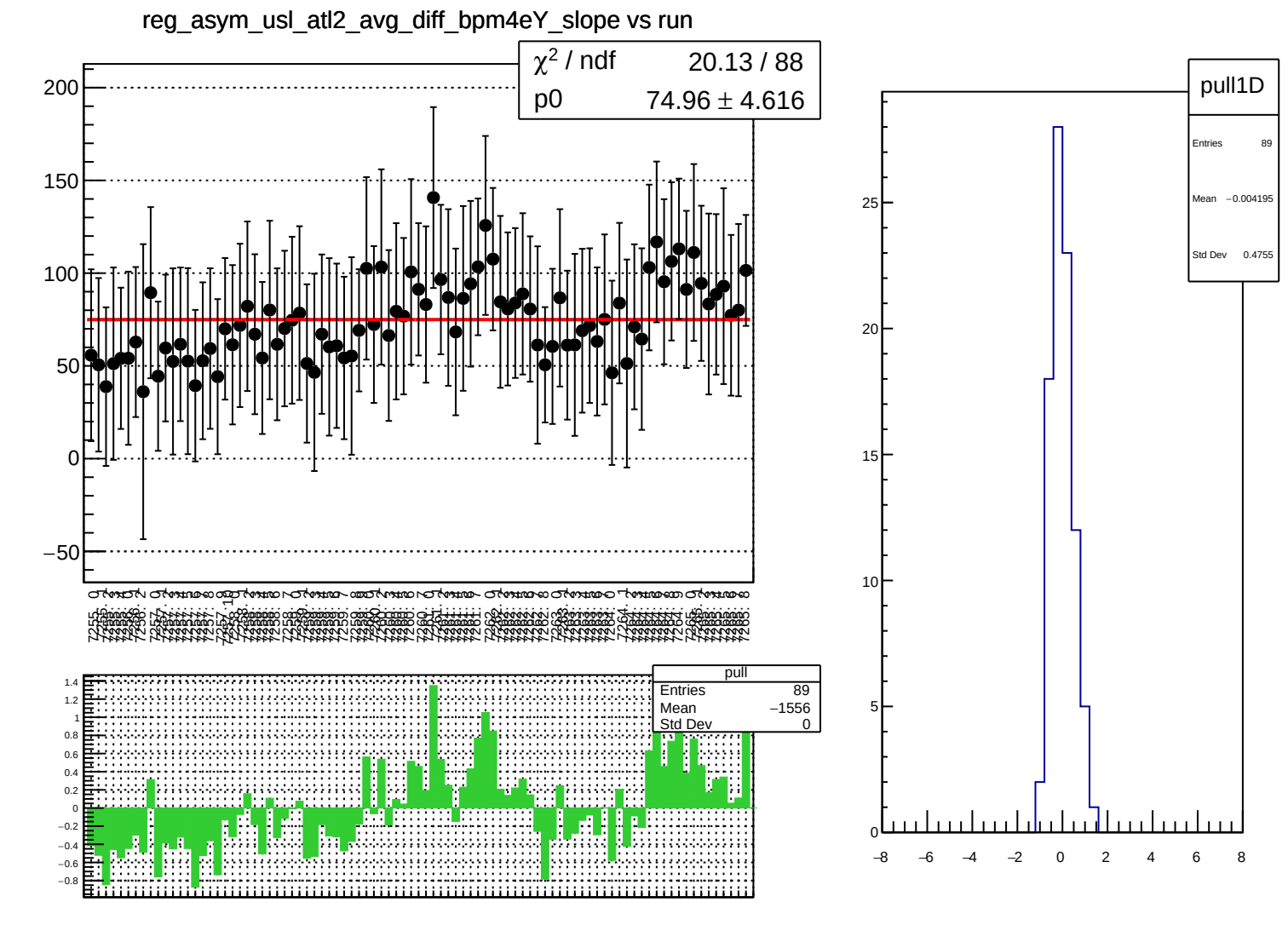

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 85.88 / 88
p0 −11.21 ± 0.04458
pull
Entries 89
Mean −259.9
Std Dev 0
pull1D
Entries 89
Mean −0.003773
Std Dev 0.9823

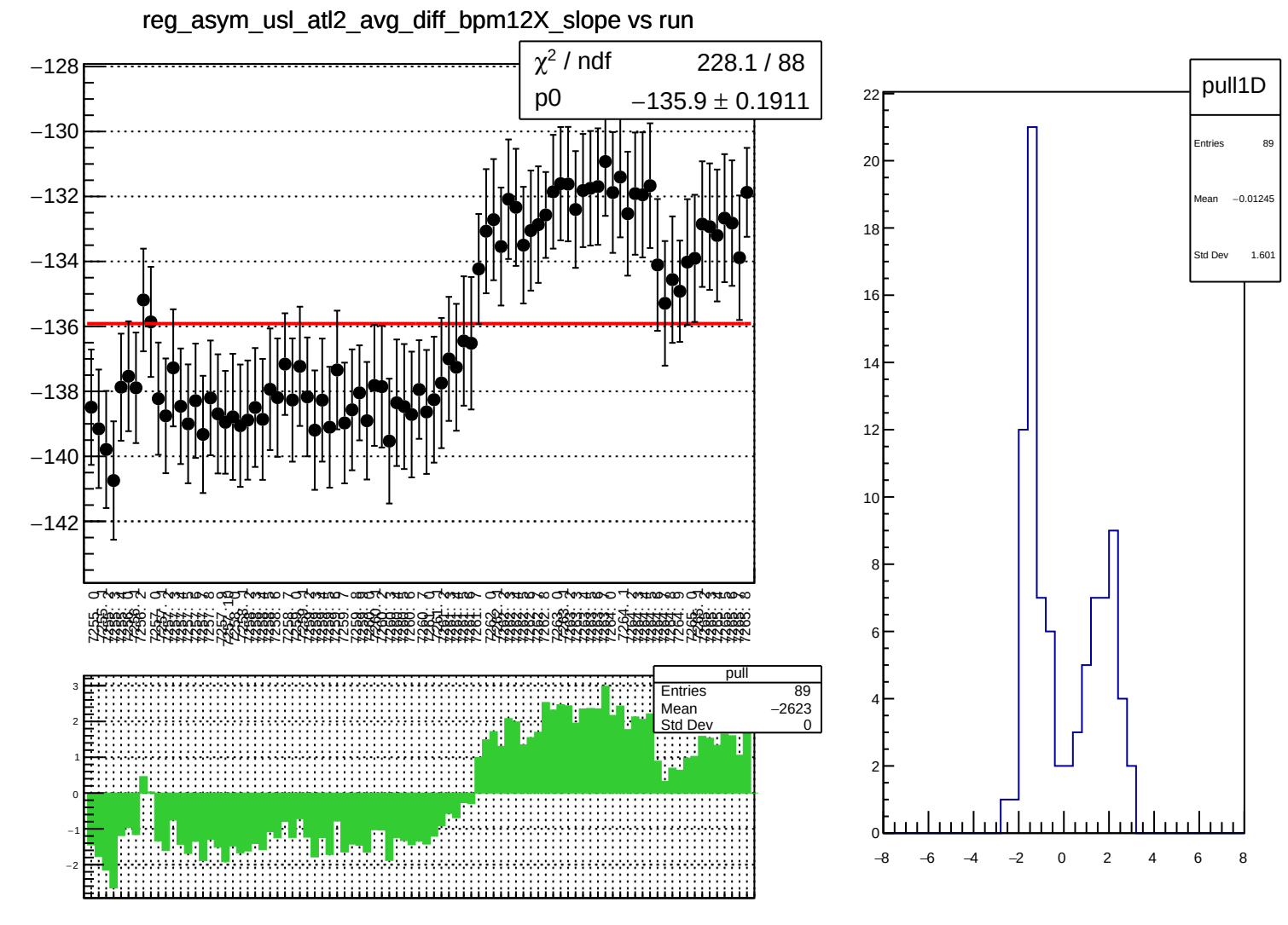

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 43.56 / 88
p0 −224.5 ± 5.022
−150
−200
−250
−300
−350
pull
Entries 89
Mean −141.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

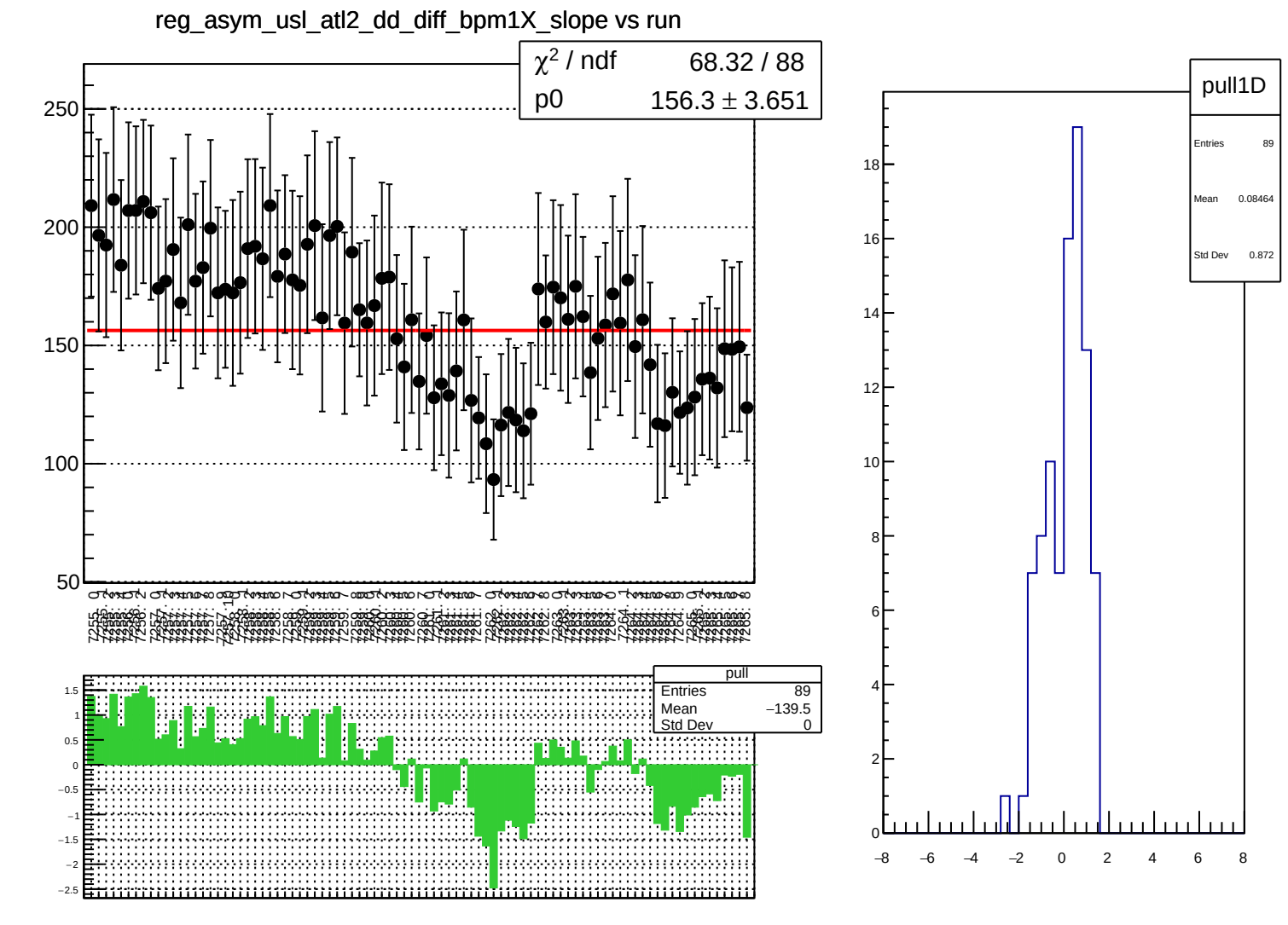

pull1D
Entries 89
Mean −0.06293
Std Dev 0.6968
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

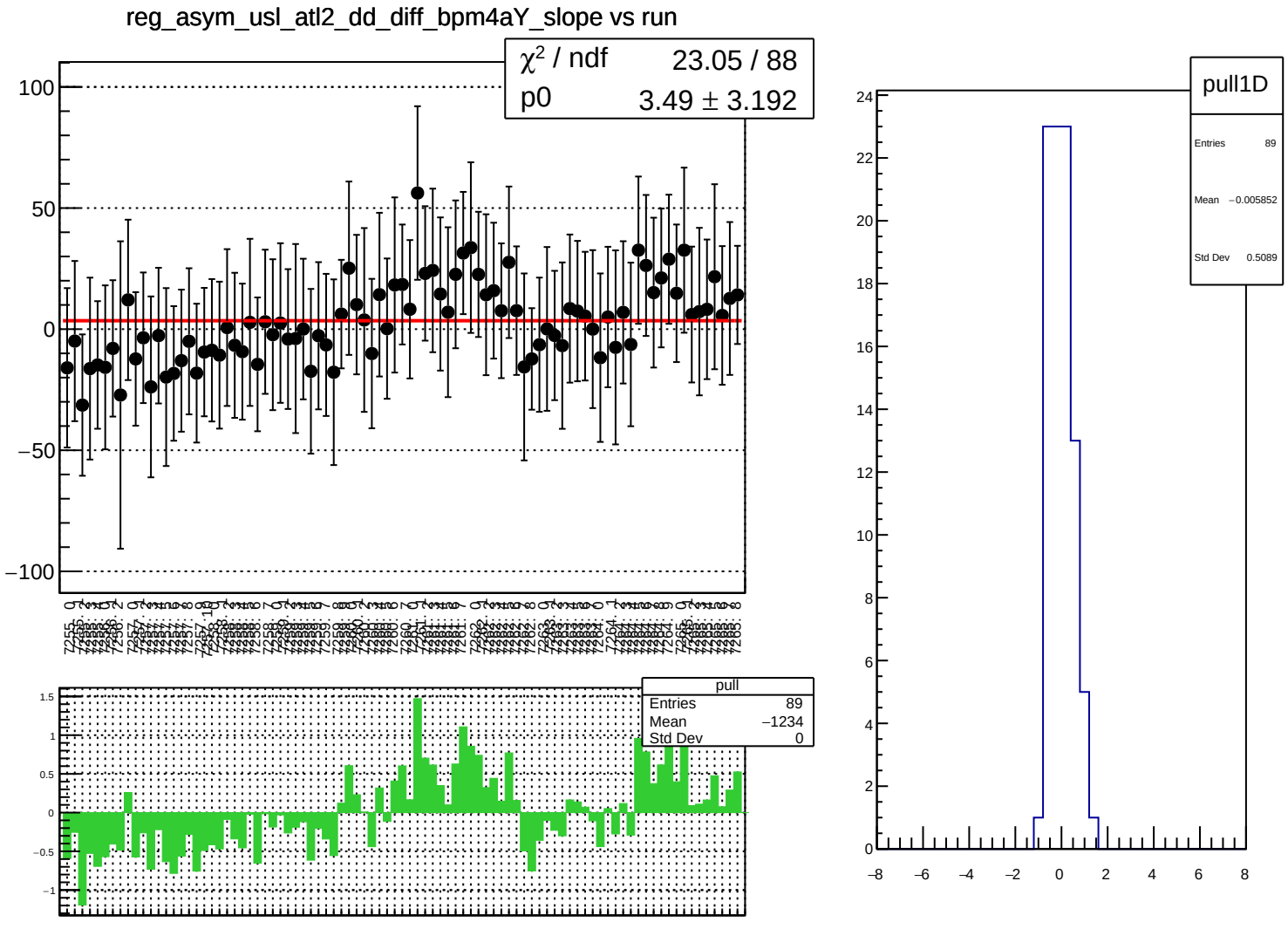

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.4 / 88
p0 −0.2859 ± 4.391
100
50
0
−50
−100
pull
Entries 89
Mean −5749
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.001123
Std Dev 0.4422
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

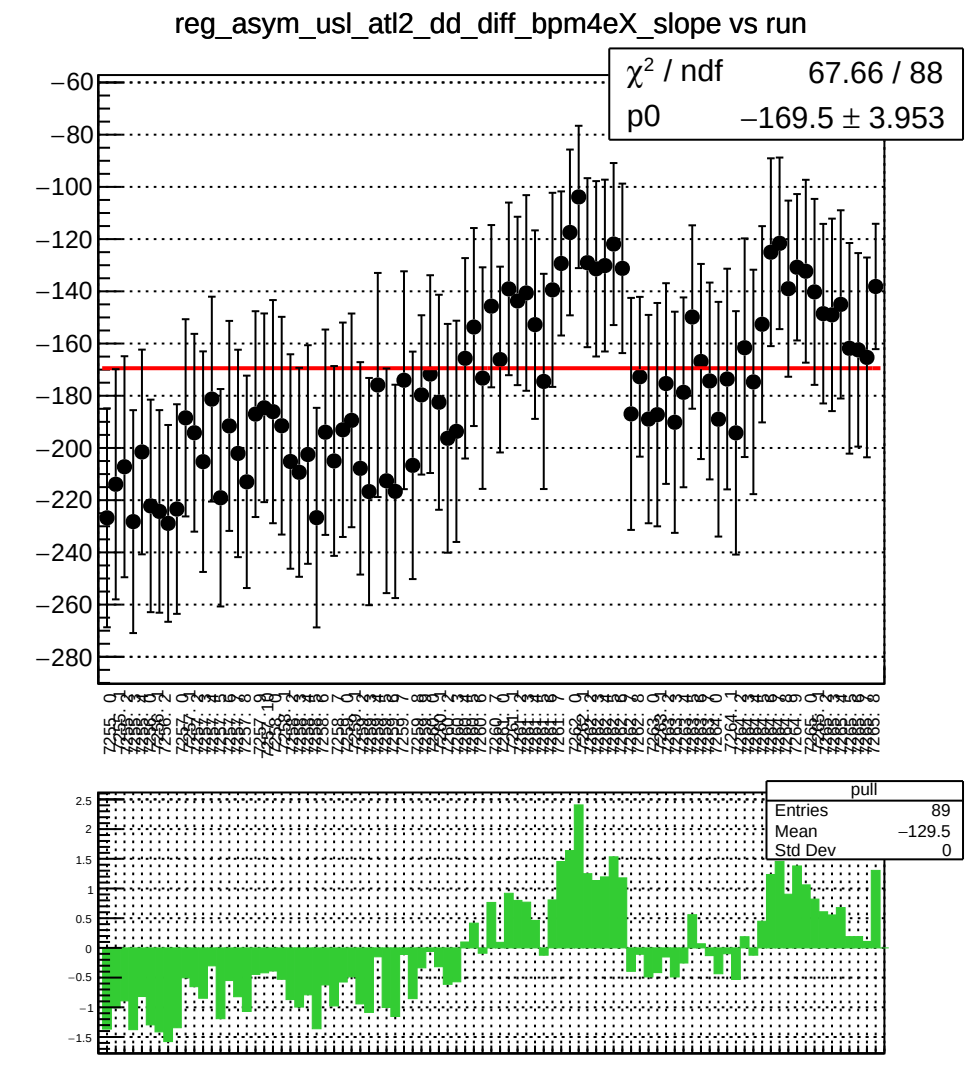

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.15 / 88
p0 184.1 ± 5.438
pull
Entries 89
Mean −130.3
Std Dev 0
pull1D
Entries 89
Mean 0.06545
Std Dev 0.6932

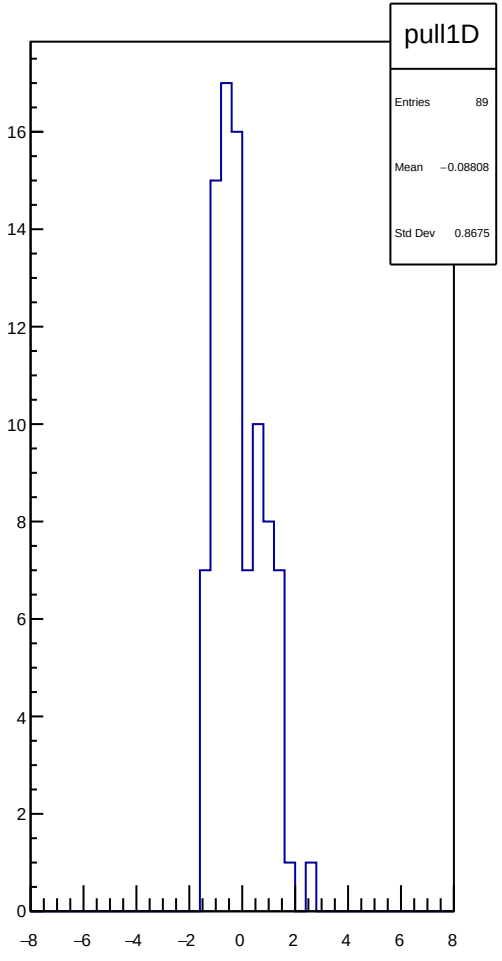

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.13 / 88
p0 74.96 ± 4.616
200
150
100
50
0
−50
pull
Entries 89
Mean −1556
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 89
Mean −0.004195
Std Dev 0.4755
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

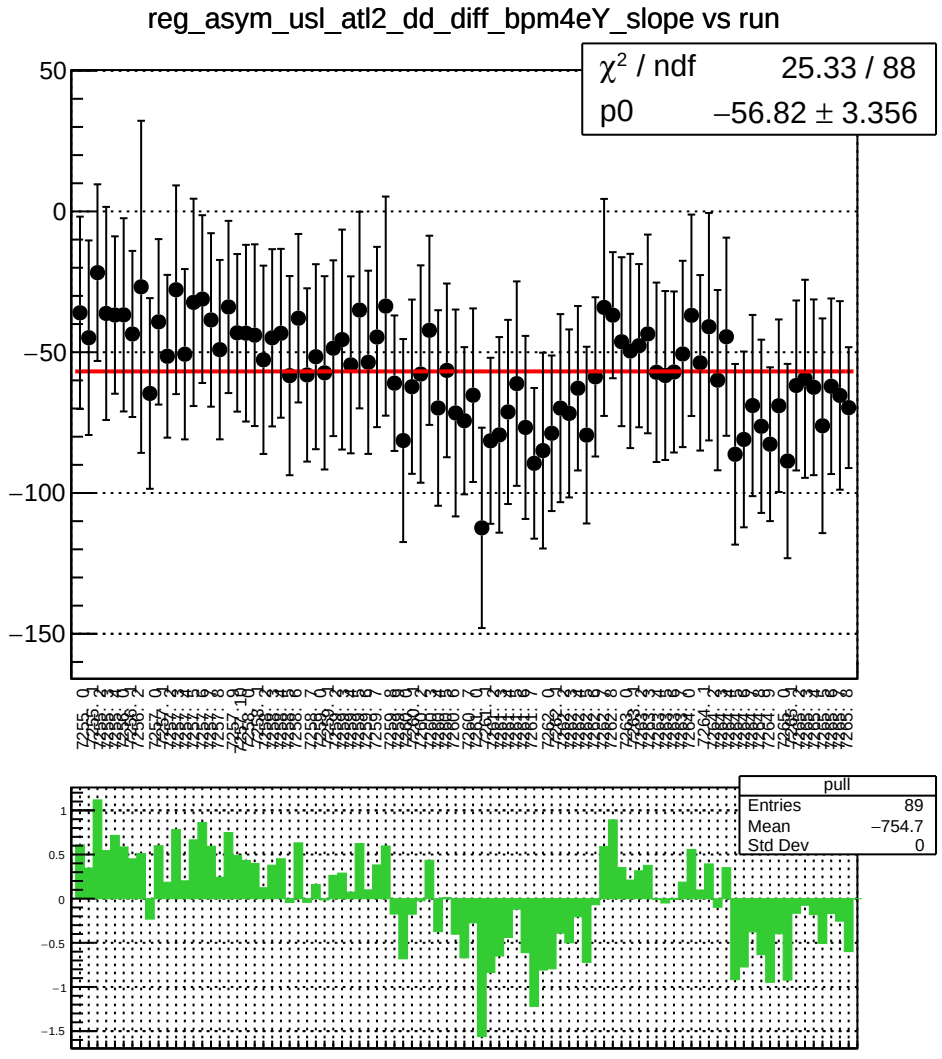

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 228.1 / 88
p0 −135.9 ± 0.1911
pull
Entries 89
Mean −2623
Std Dev 0
pull1D
Entries 89
Mean −0.01245
Std Dev 1.601

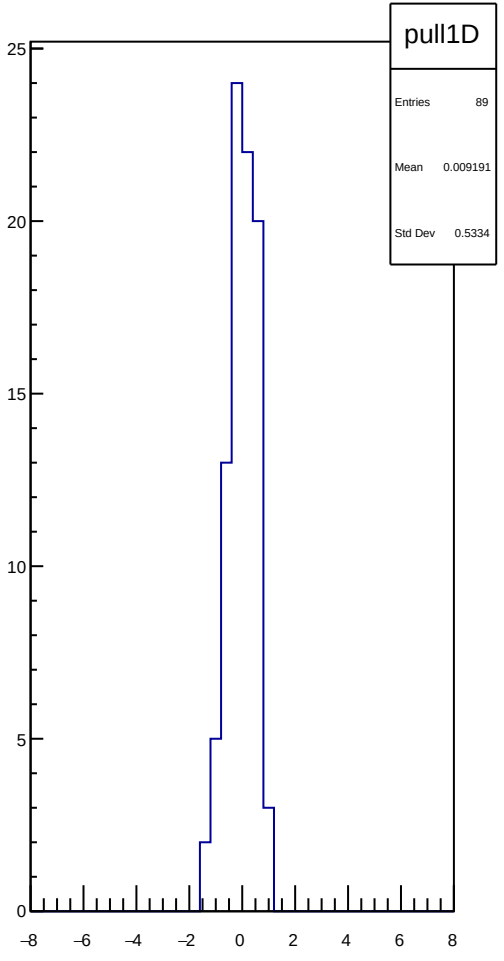

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 68.32 / 88
p0 156.3 ± 3.651
250
200
150
100
50
pull
Entries 89
Mean −139.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.08464
Std Dev 0.872
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

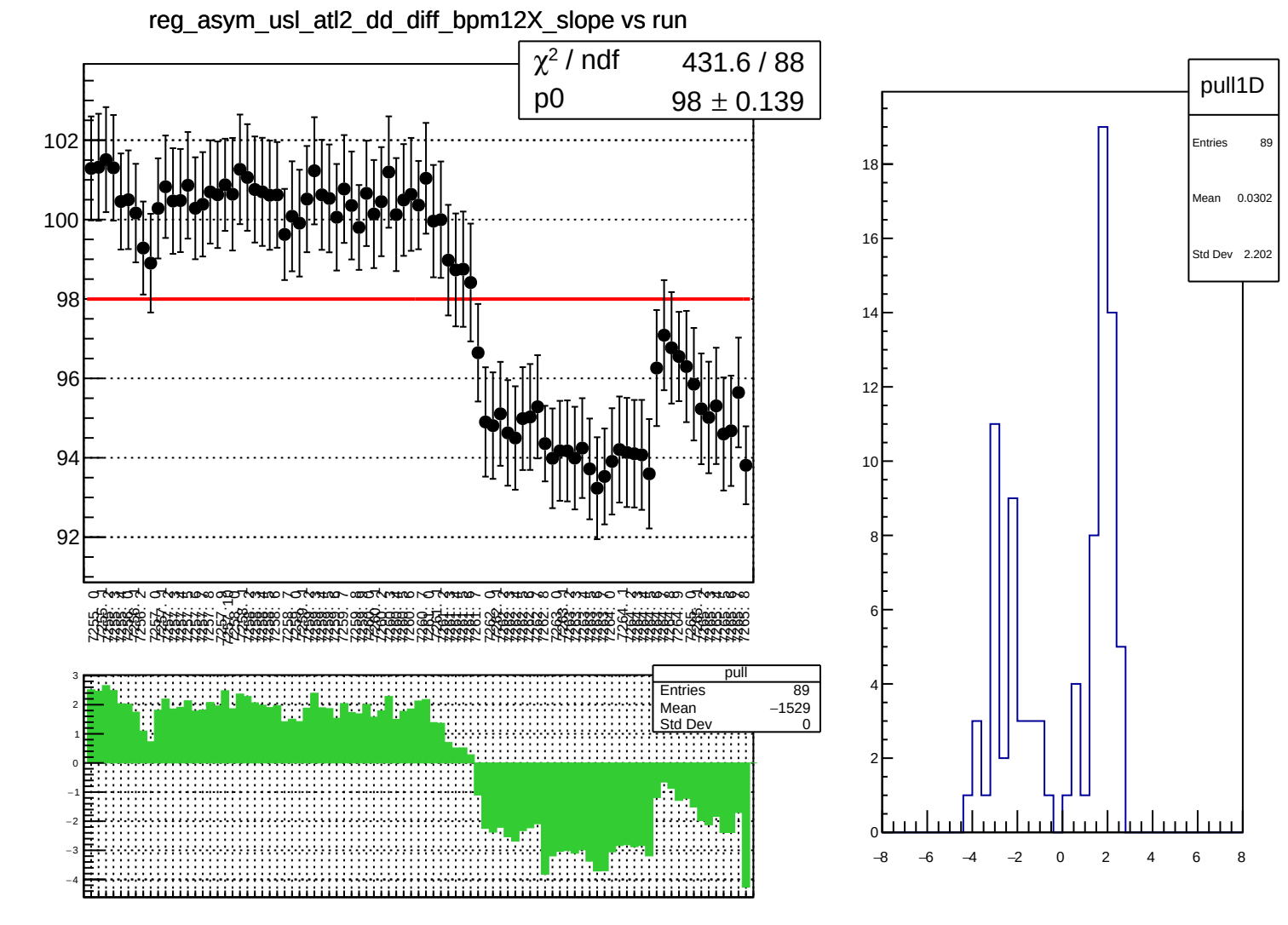

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.05 / 88
p0 3.49 ± 3.192
pull
Entries 89
Mean −1234
Std Dev 0
pull1D
Entries 89
Mean −0.005852
Std Dev 0.5089

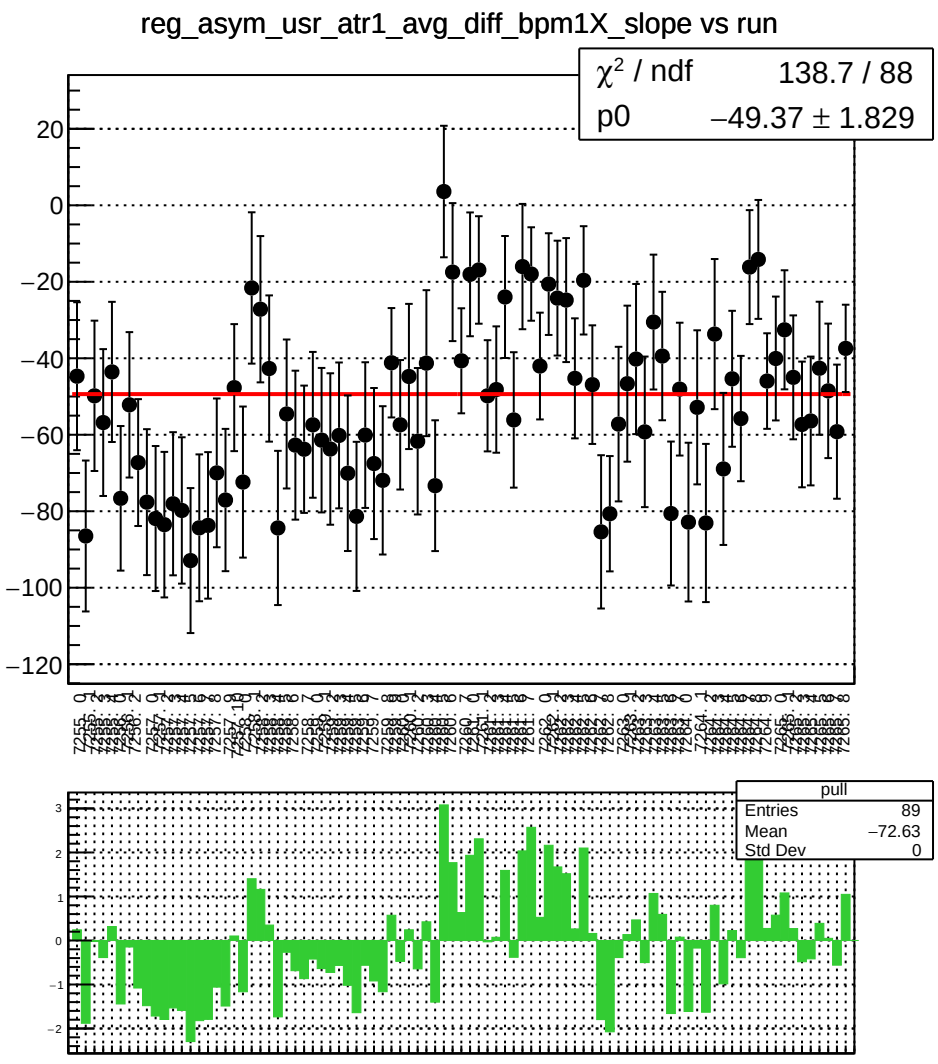

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.66 / 88
p0 −169.5 ± 3.953
pull
Entries 89
Mean −129.5
Std Dev 0

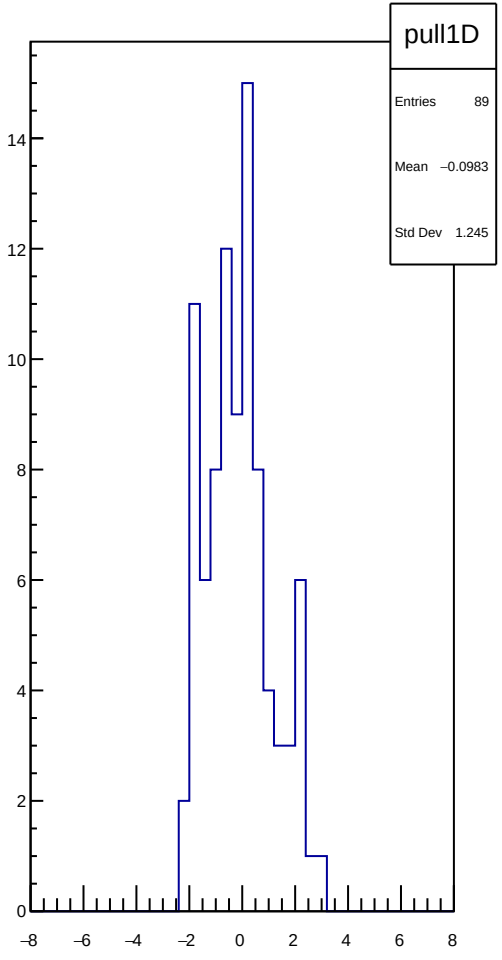

pull1D
Entries 89
Mean −0.08808
Std Dev 0.8675

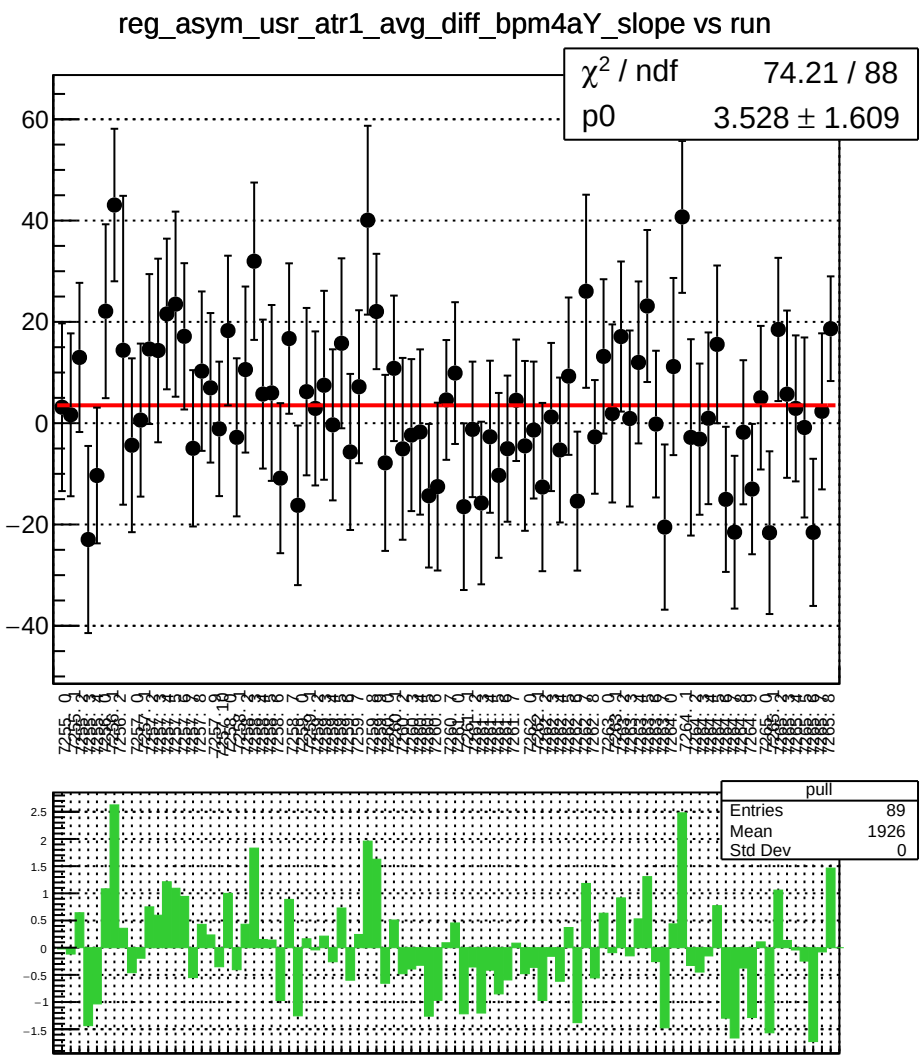

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.33 / 88
p0 −56.82 ± 3.356
pull
Entries 89
Mean −754.7
Std Dev 0

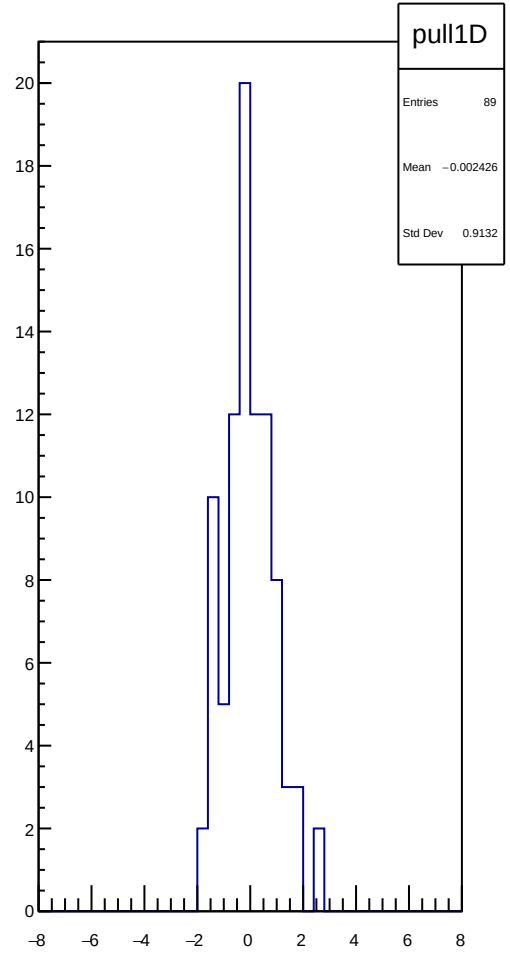

pull1D
Entries 89
Mean 0.009191
Std Dev 0.5334

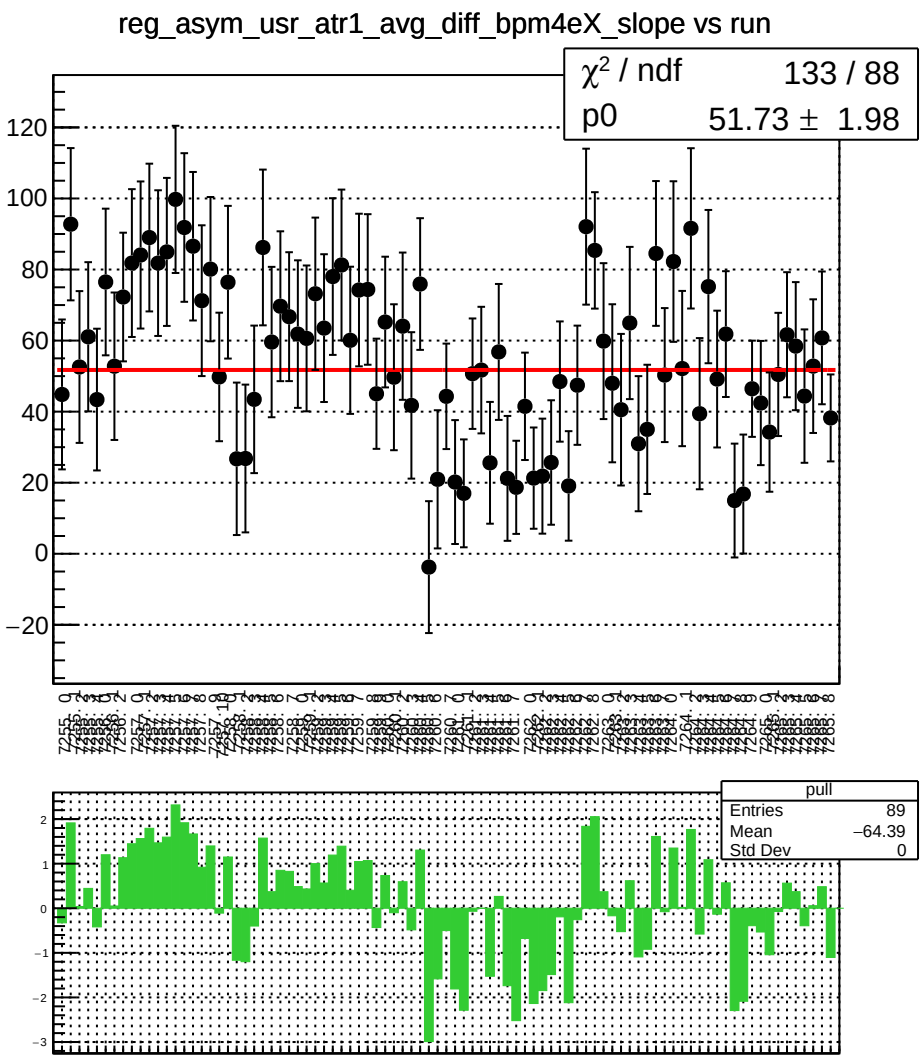

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 431.6 / 88
p0 98 ± 0.139
102
100
98
96
94
92
pull
Entries 89
Mean −1529
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean 0.0302
Std Dev 2.202
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

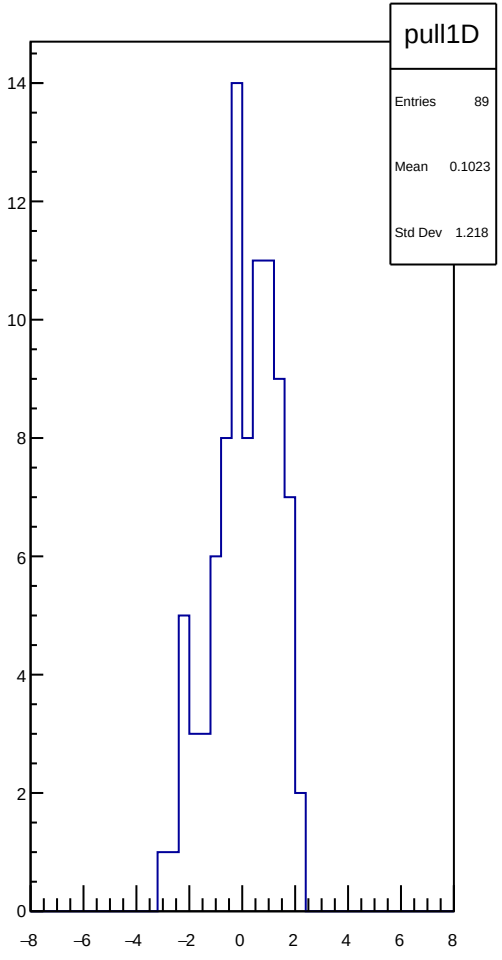

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 138.7 / 88
p0 −49.37 ± 1.829
pull
Entries 89
Mean −72.63
Std Dev 0

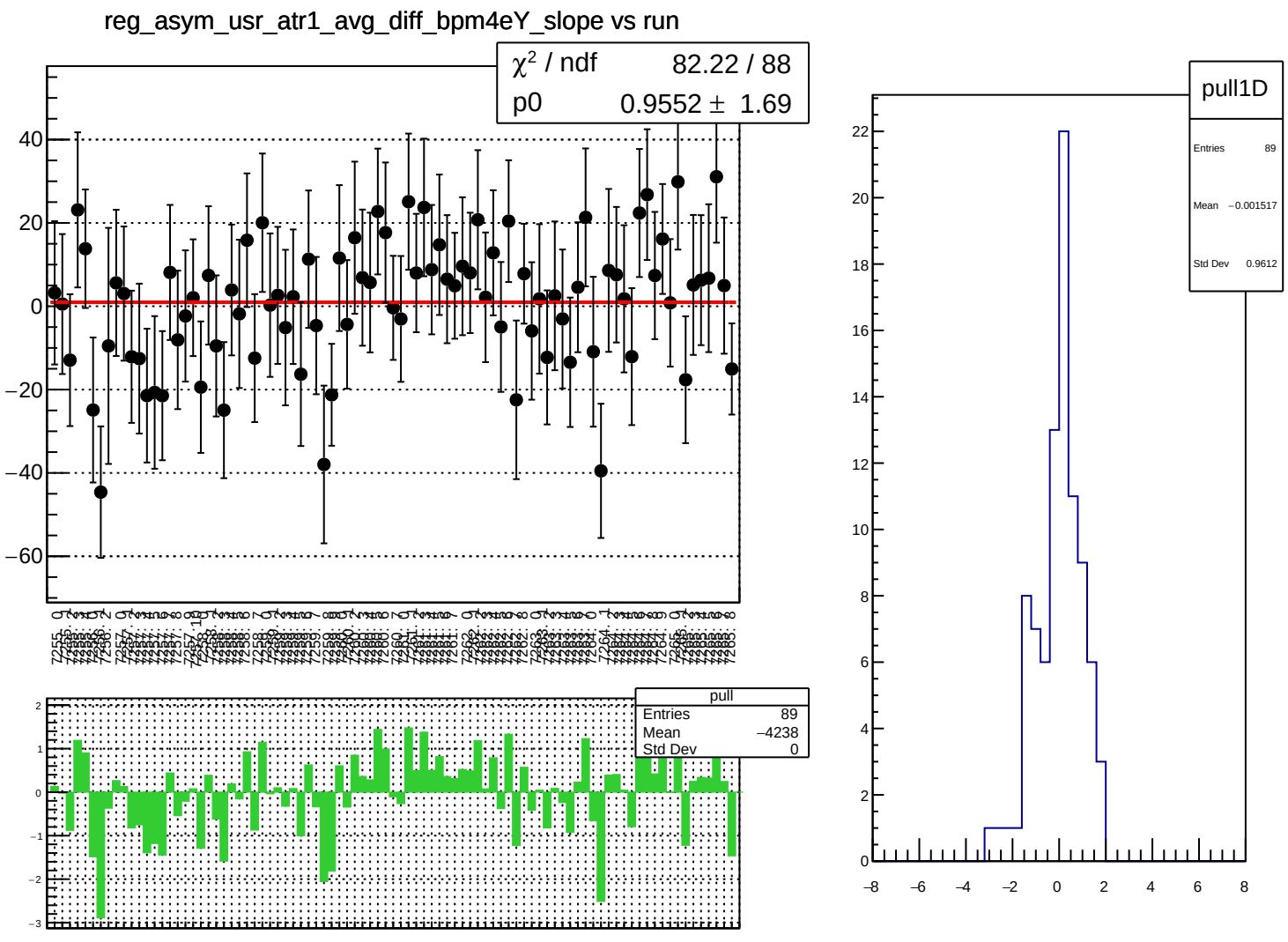

pull1D
Entries 89
Mean −0.0983
Std Dev 1.245

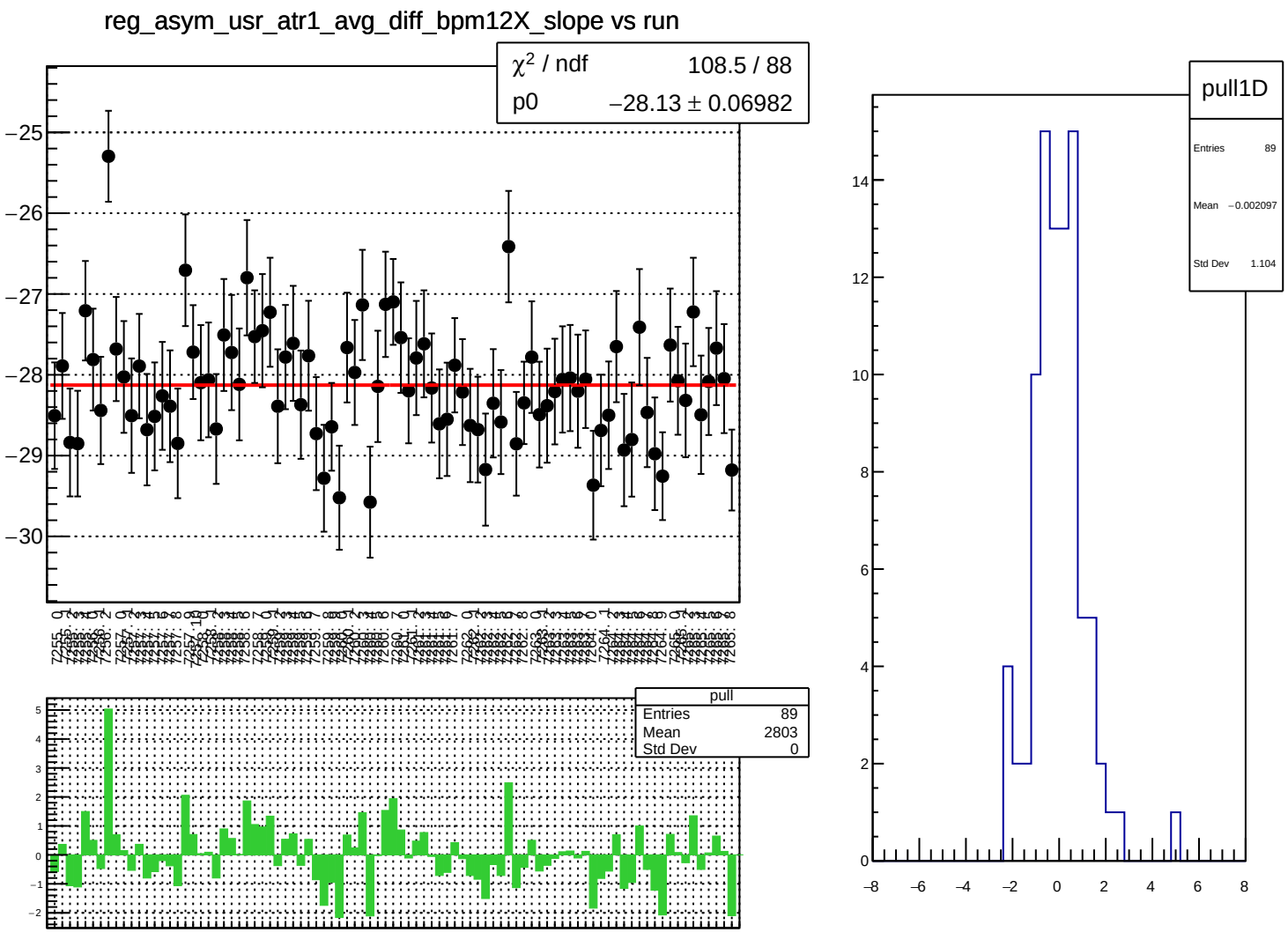

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 74.21 / 88
p0 3.528 ± 1.609
pull
Entries 89
Mean 1926
Std Dev 0

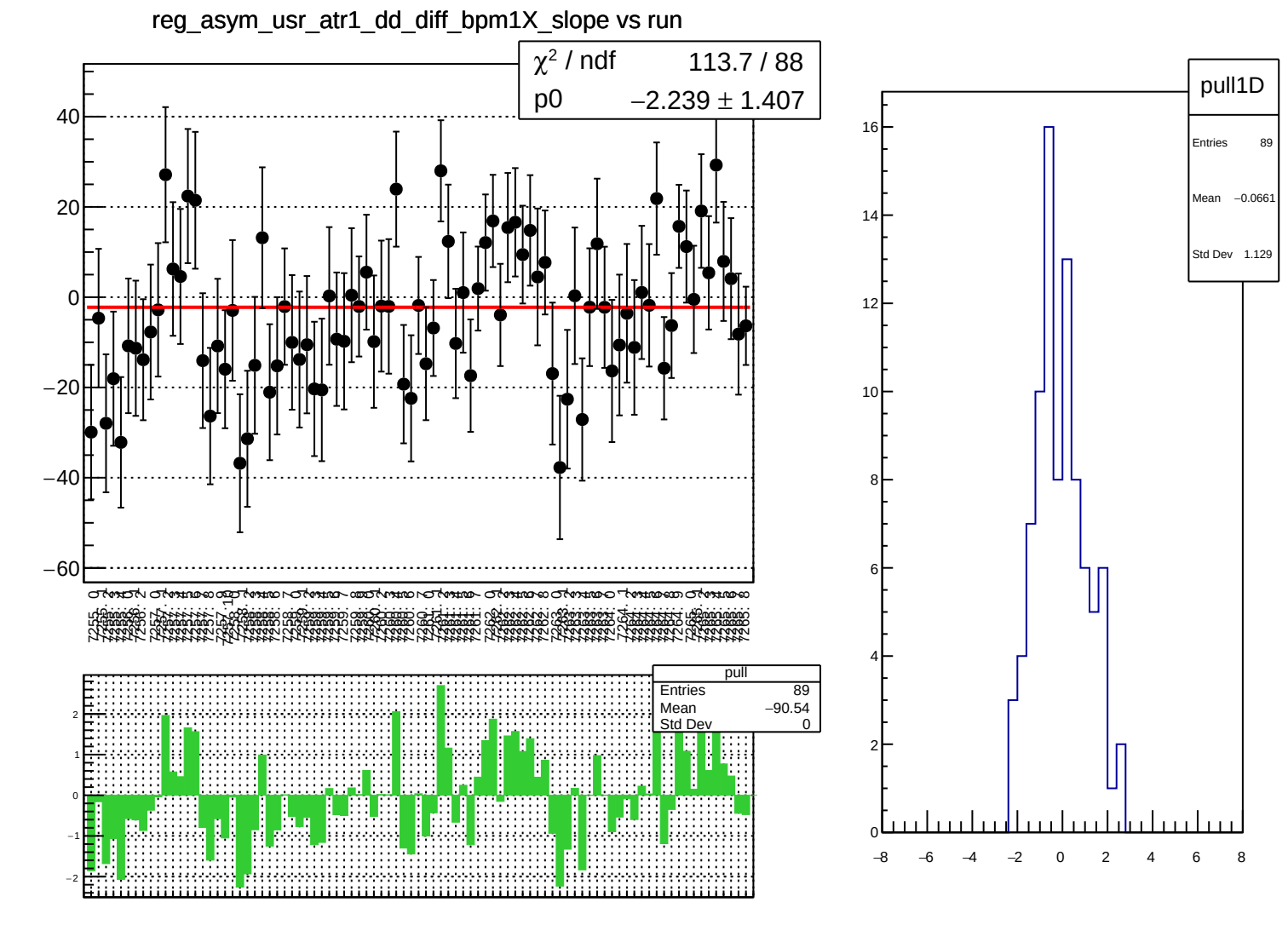

pull1D
Entries 89
Mean −0.002426
Std Dev 0.9132

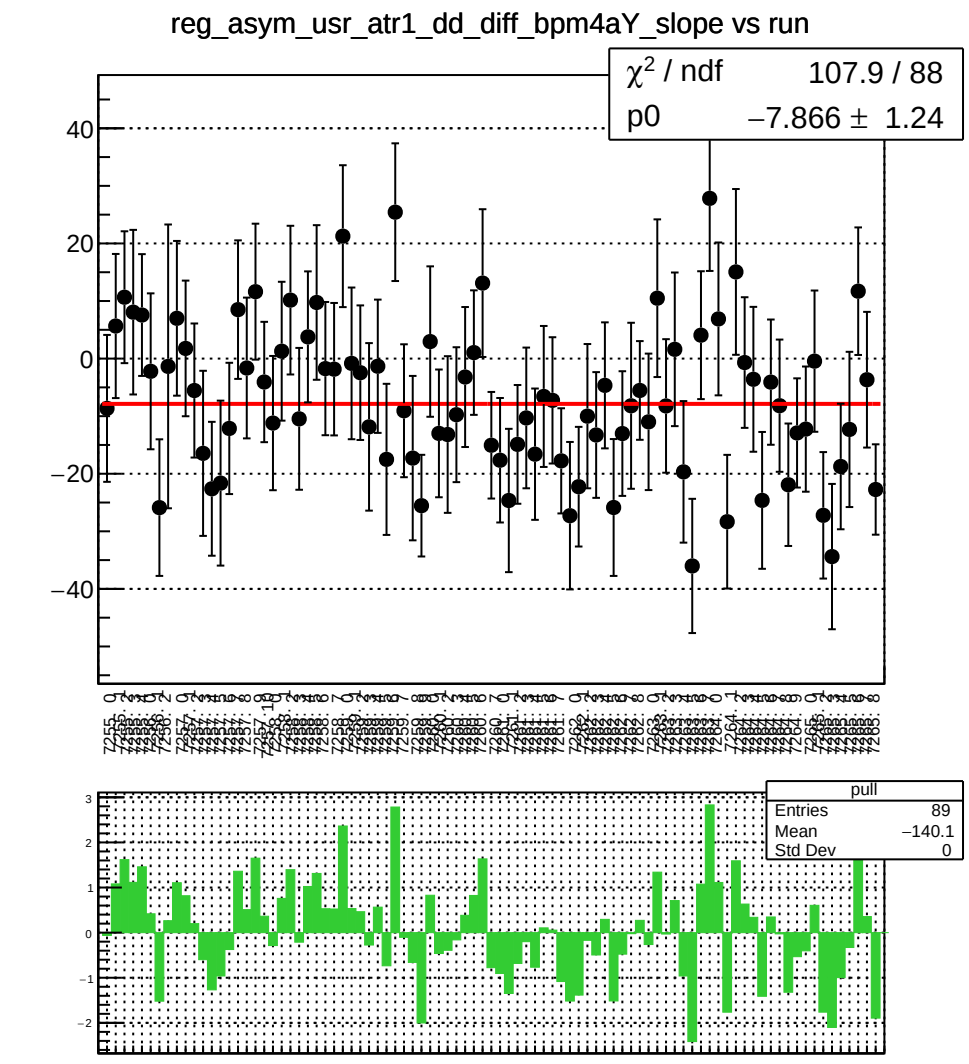

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 133 / 88
p0 51.73 ± 1.98
pull
Entries 89
Mean −64.39
Std Dev 0

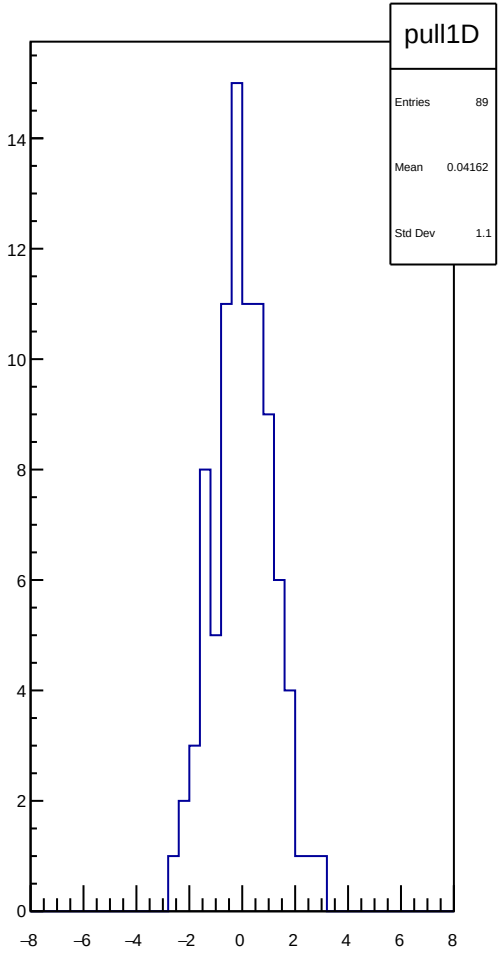

pull1D
Entries 89
Mean 0.1023
Std Dev 1.218

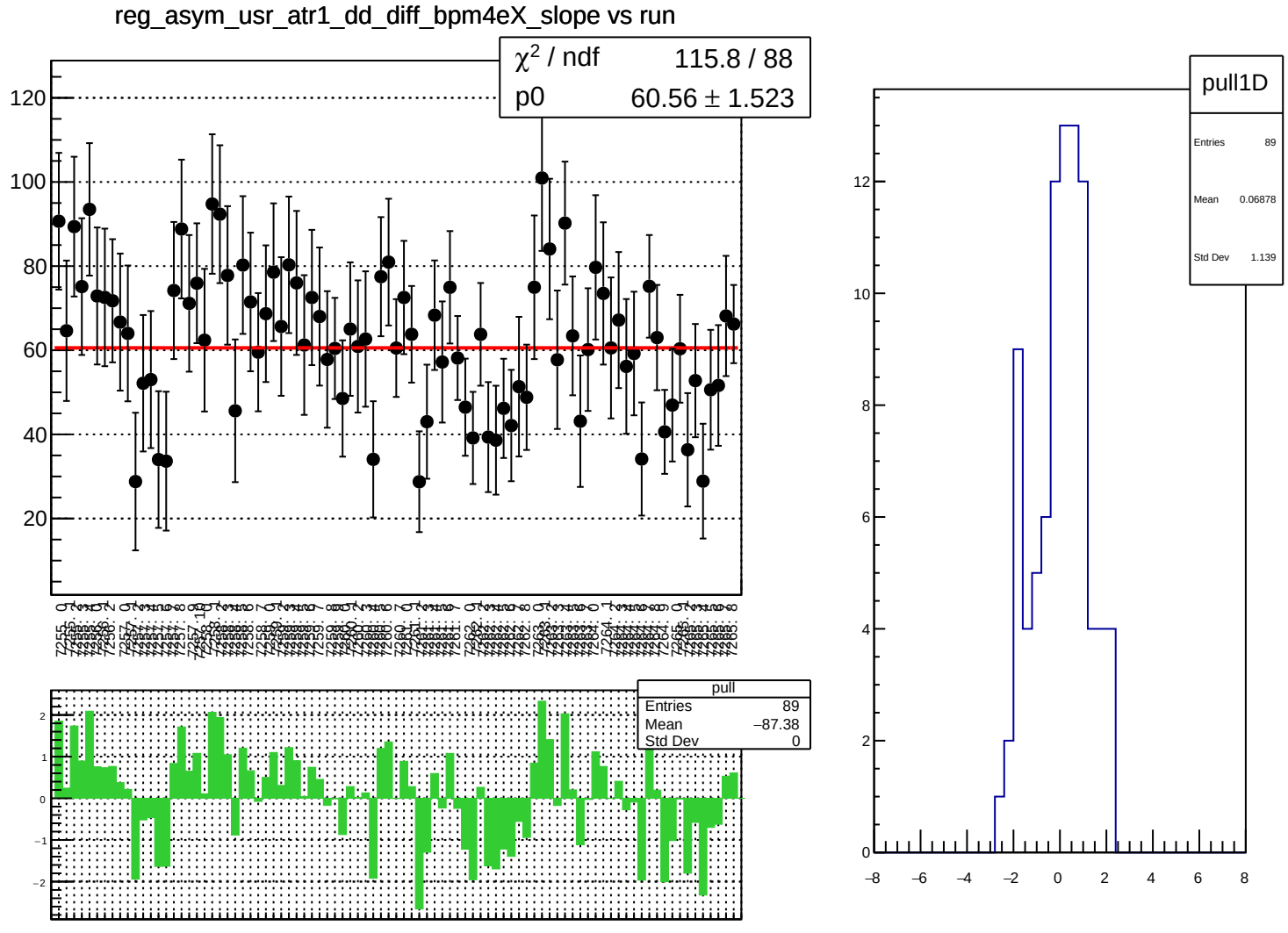

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 82.22 / 88
p0 0.9552 ± 1.69
pull
Entries 89
Mean −4238
Std Dev 0
pull1D
Entries 89
Mean −0.001517
Std Dev 0.9612

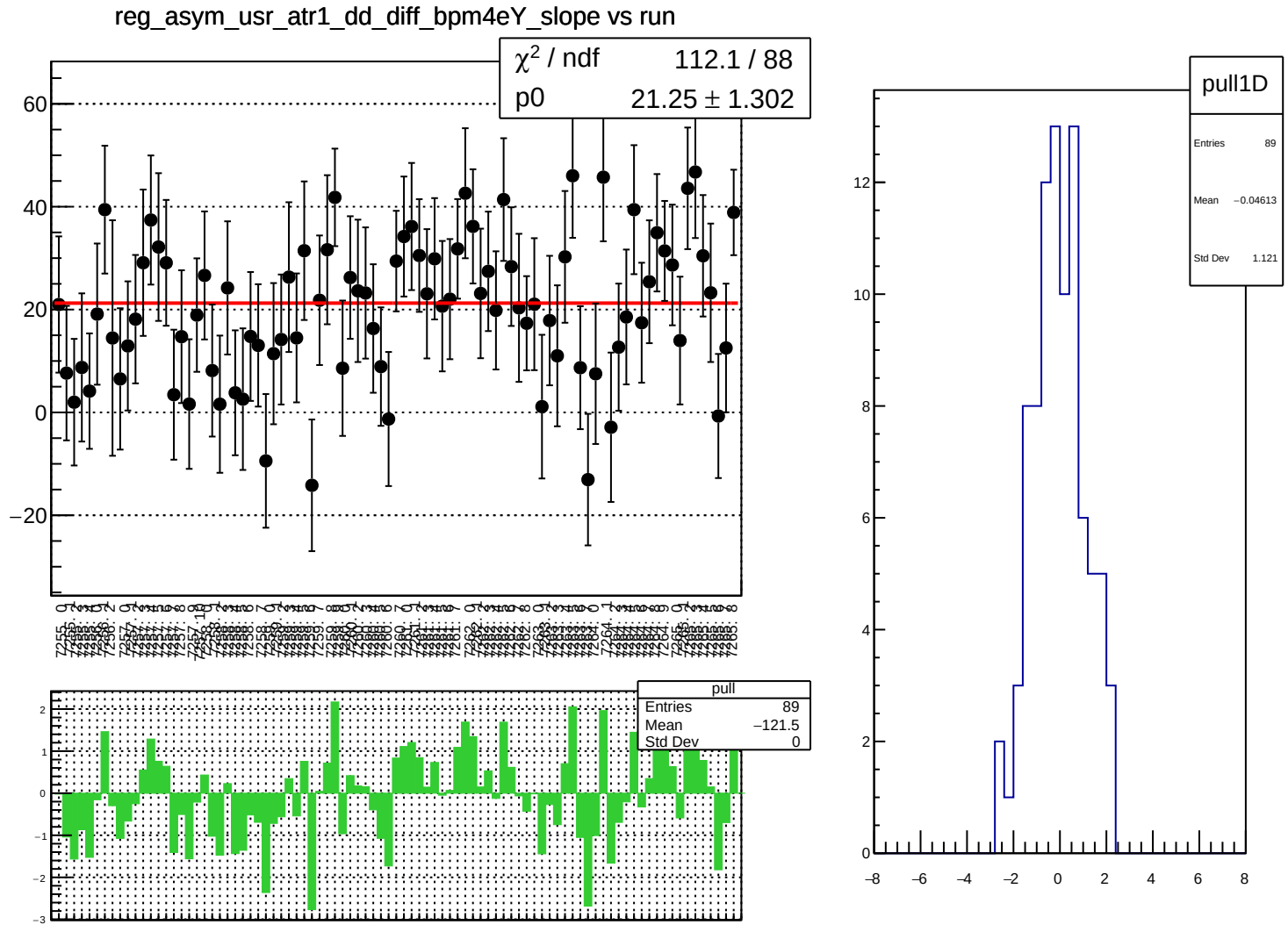

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 108.5 / 88
p0 −28.13 ± 0.06982
pull
Entries 89
Mean 2803
Std Dev 0
pull1D
Entries 89
Mean −0.002097
Std Dev 1.104

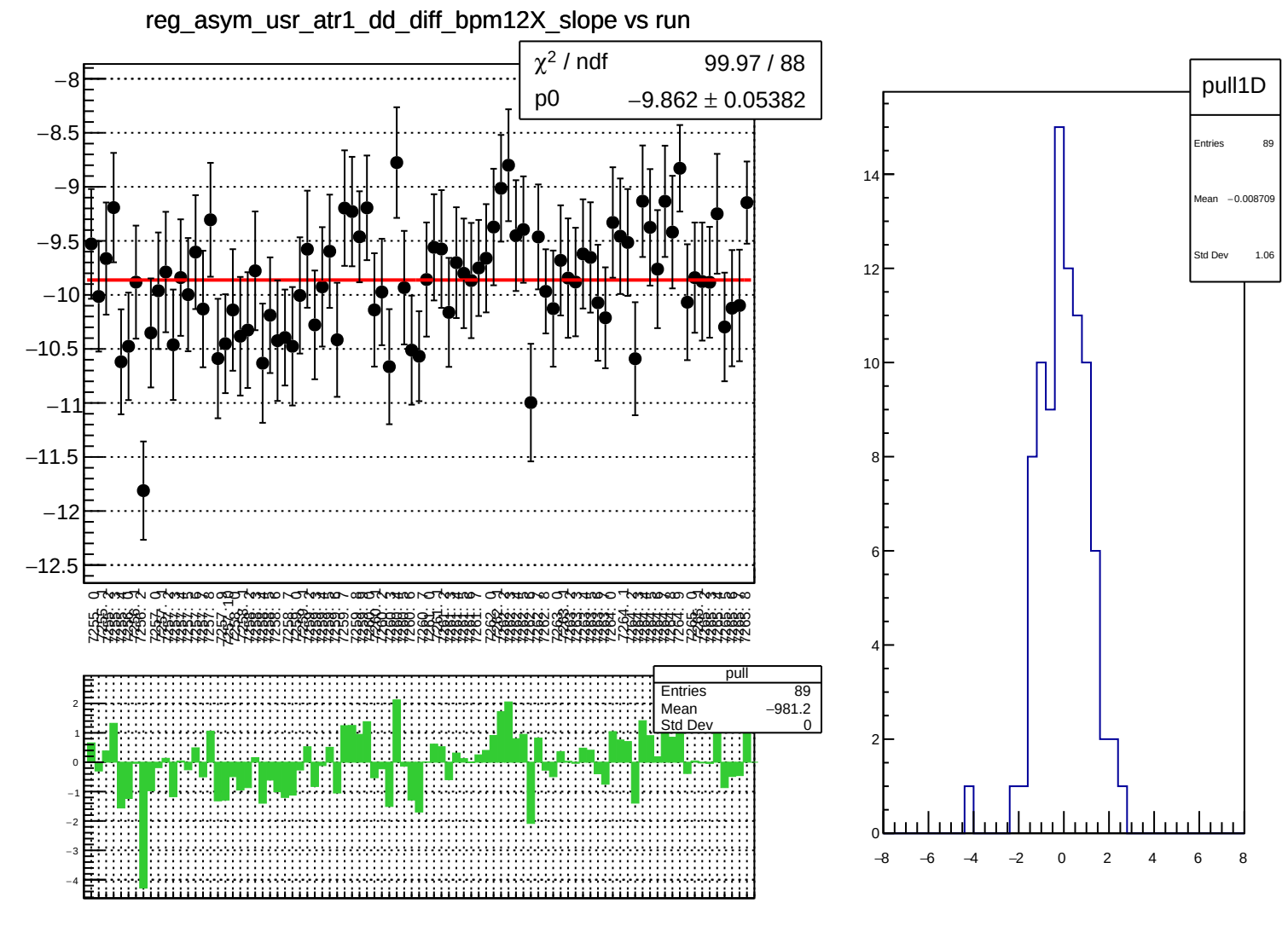

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 113.7 / 88
p0 −2.239 ± 1.407
pull
Entries 89
Mean −90.54
Std Dev 0
pull1D
Entries 89
Mean −0.0661
Std Dev 1.129

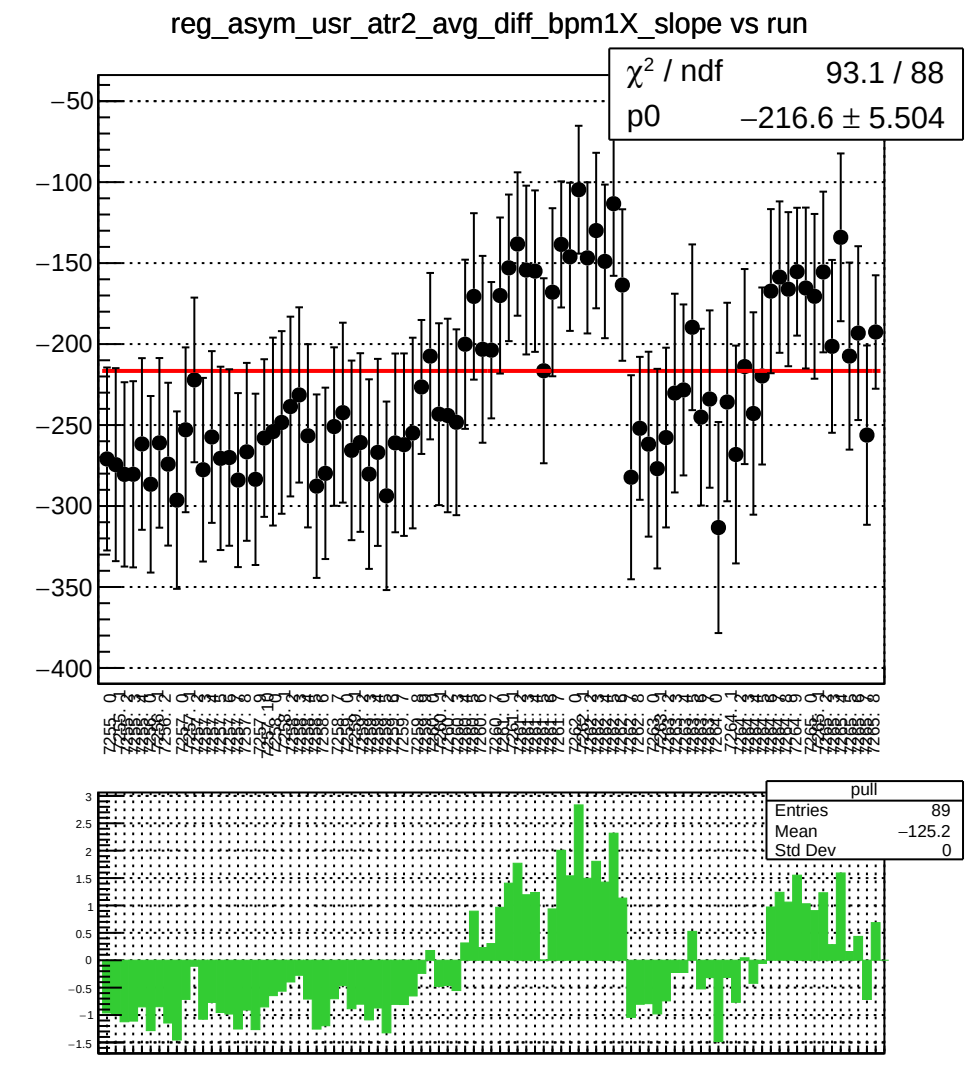

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 107.9 / 88
p0 −7.866 ± 1.24
pull
Entries 89
Mean −140.1
Std Dev 0

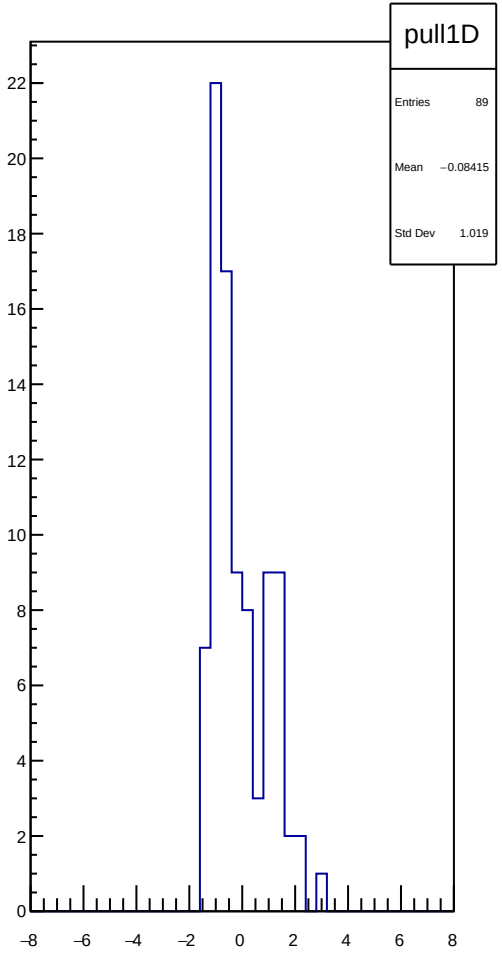

pull1D
Entries 89
Mean 0.04162
Std Dev 1.1

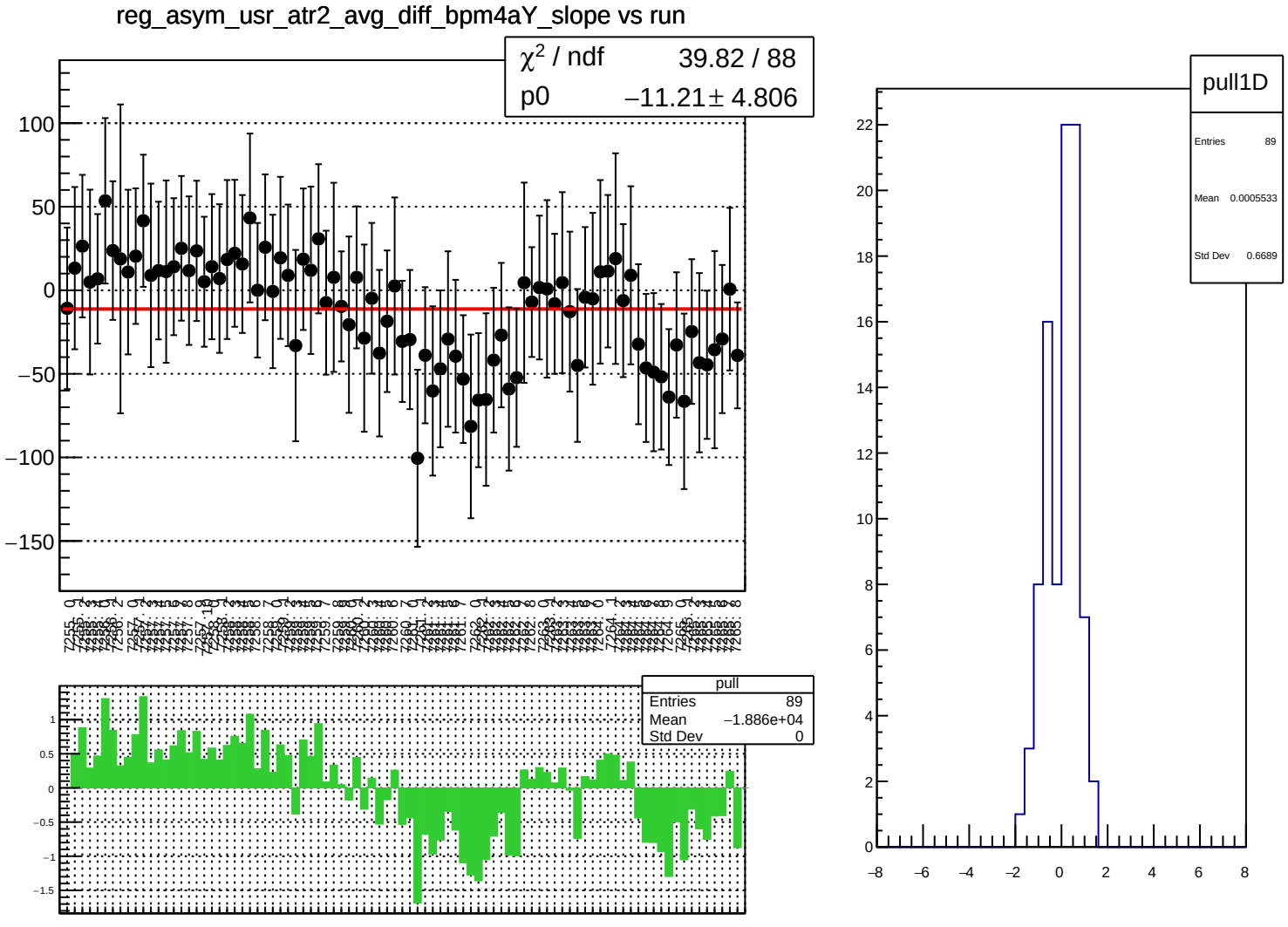

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 115.8 / 88
p0 60.56 ± 1.523
120
100
80
60
40
20
pull
Entries 89
Mean −87.38
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.06878
Std Dev 1.139
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

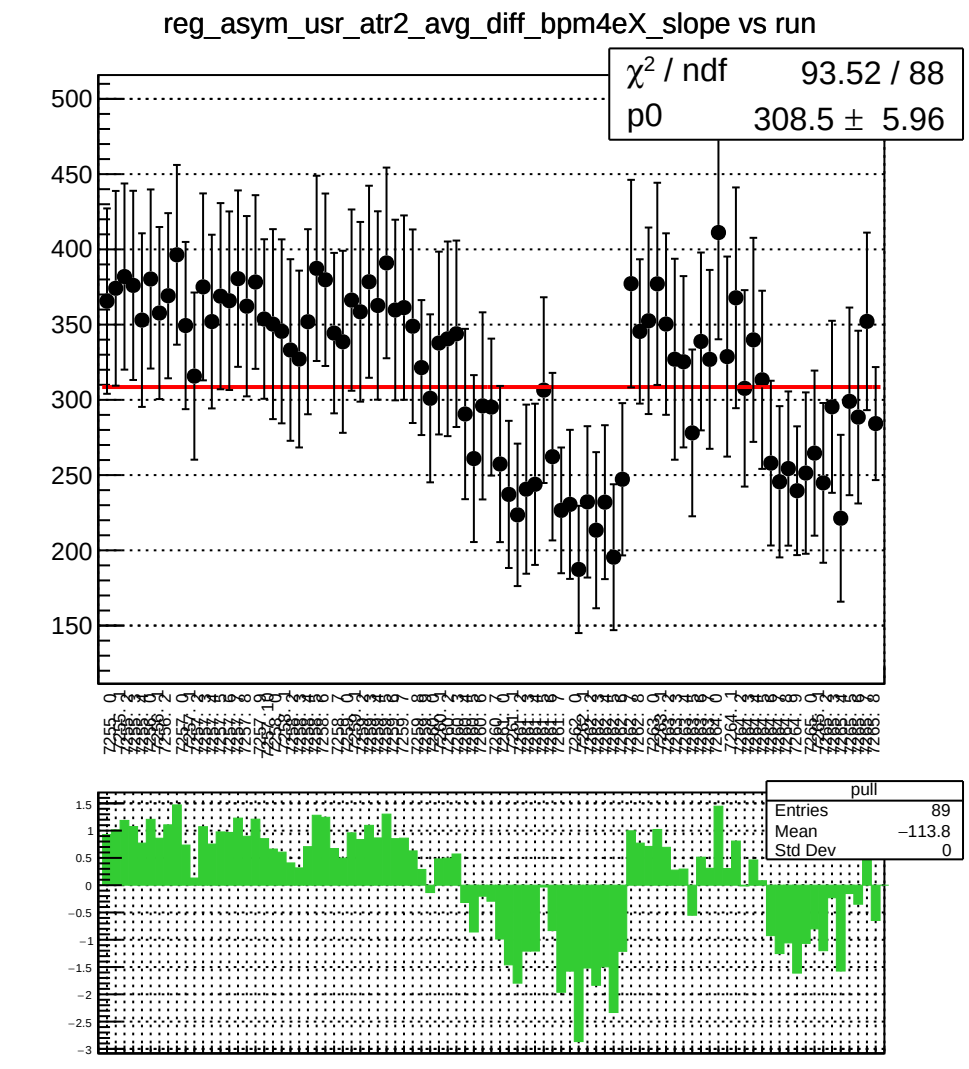

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 112.1 / 88
p0 21.25 ± 1.302
pull
Entries 89
Mean −121.5
Std Dev 0
pull1D
Entries 89
Mean −0.04613
Std Dev 1.121

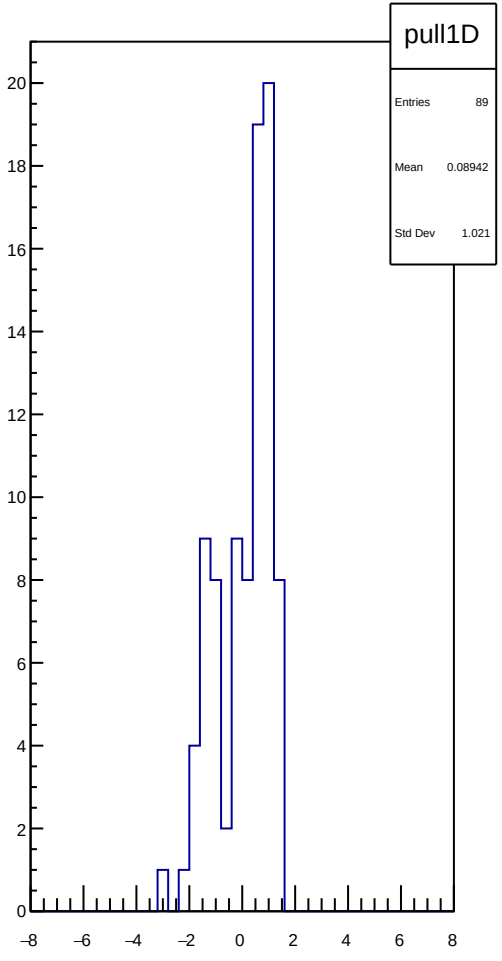

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 99.97 / 88
p0 −9.862 ± 0.05382
pull
Entries 89
Mean −981.2
Std Dev 0
pull1D
Entries 89
Mean −0.008709
Std Dev 1.06

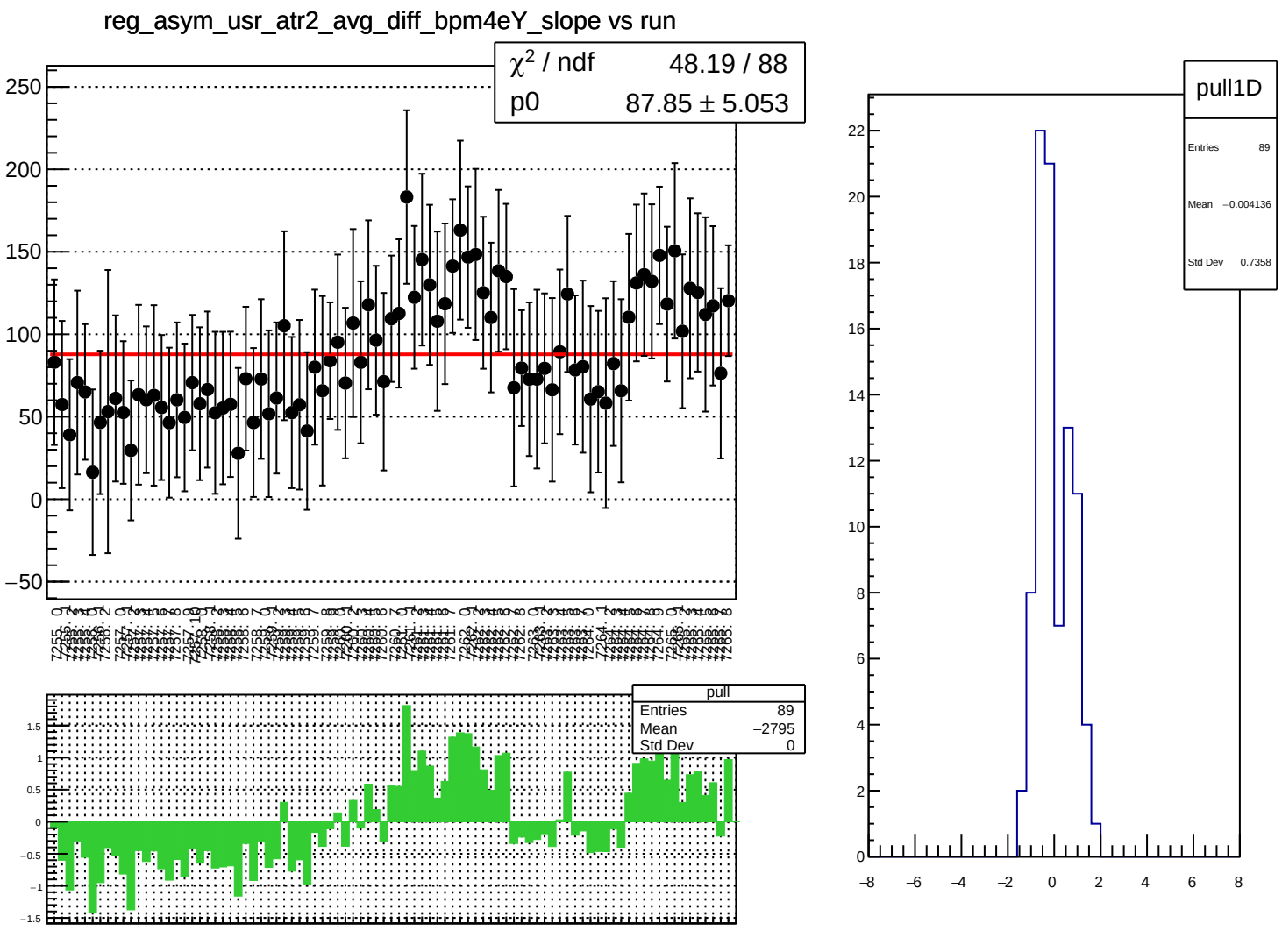

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 93.1 / 88
p0 −216.6 ± 5.504
pull
Entries 89
Mean −125.2
Std Dev 0

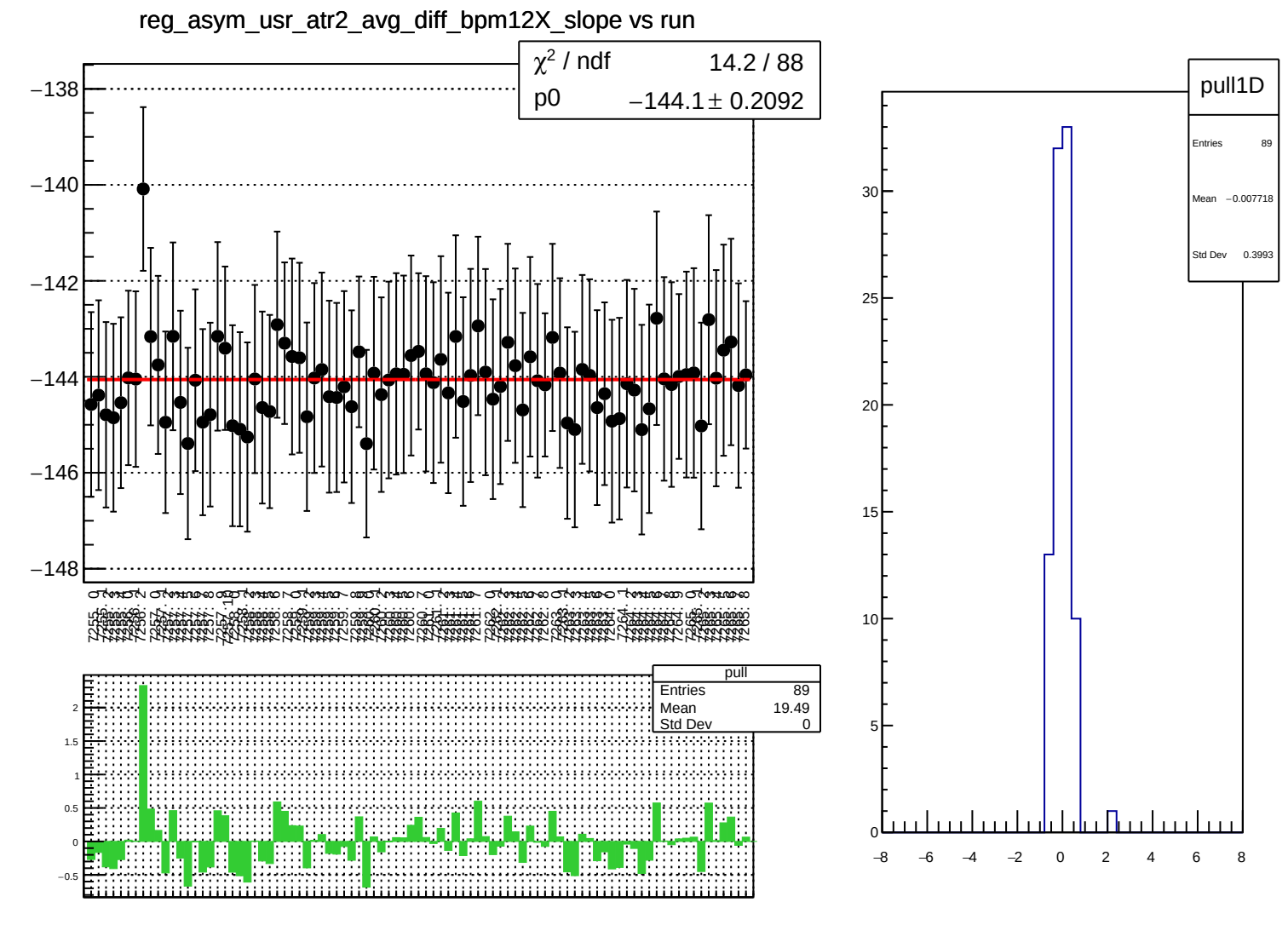

pull1D
Entries 89
Mean −0.08415
Std Dev 1.019

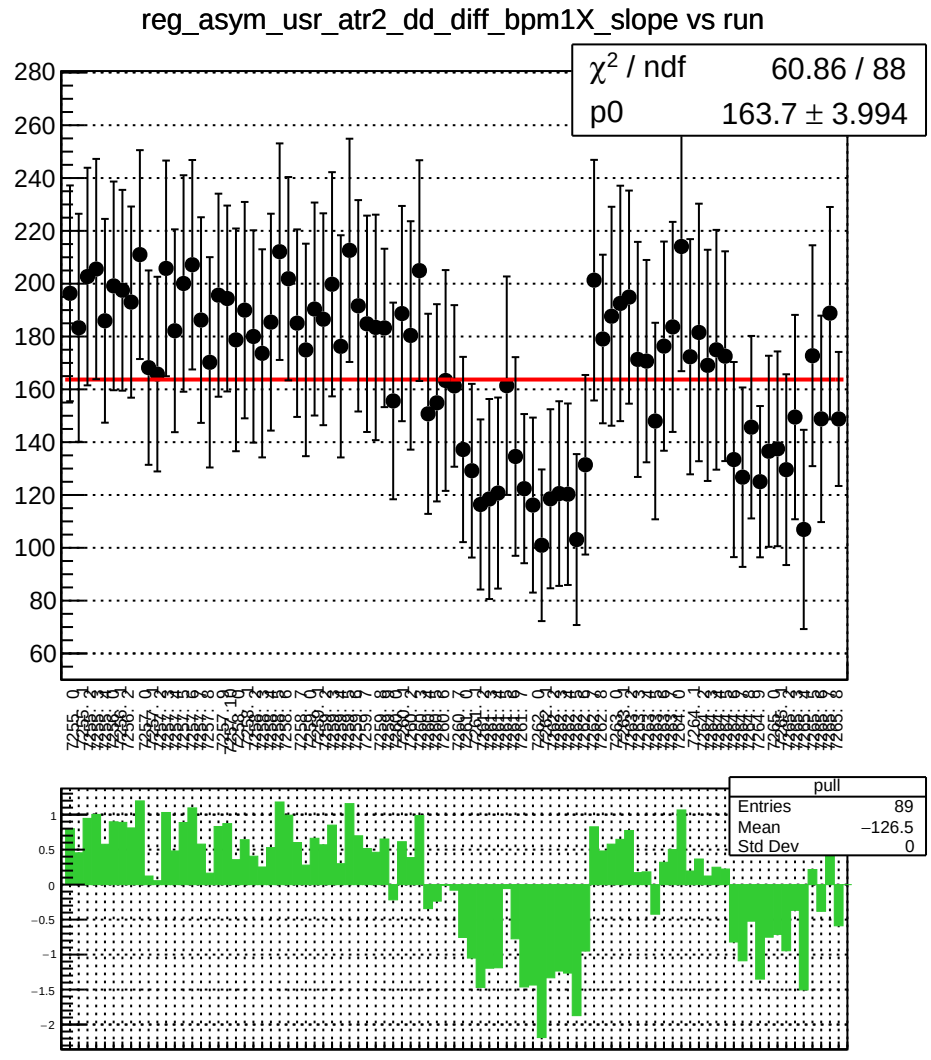

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 39.82 / 88
p0 −11.21 ± 4.806
pull
Entries 89
Mean −1.886e+04
Std Dev 0
pull1D
Entries 89
Mean 0.0005533
Std Dev 0.6689

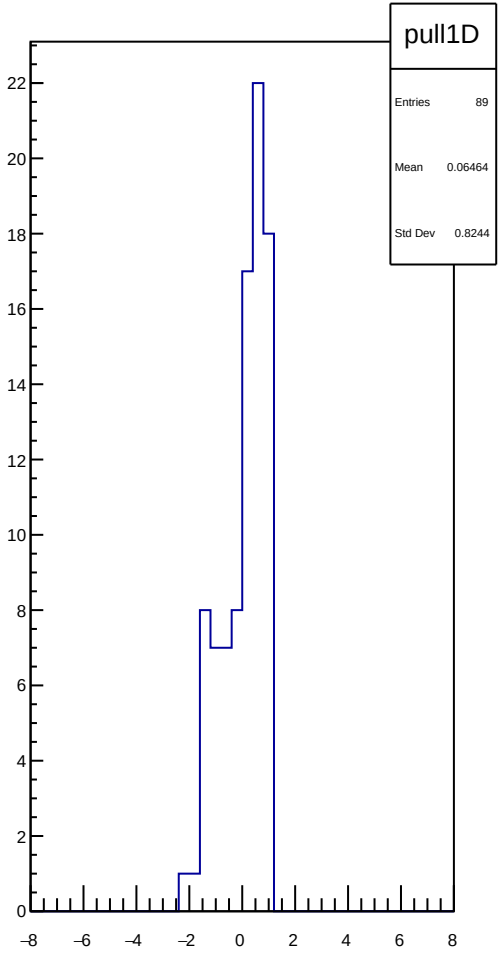

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 93.52 / 88
p0 308.5 ± 5.96
pull
Entries 89
Mean −113.8
Std Dev 0

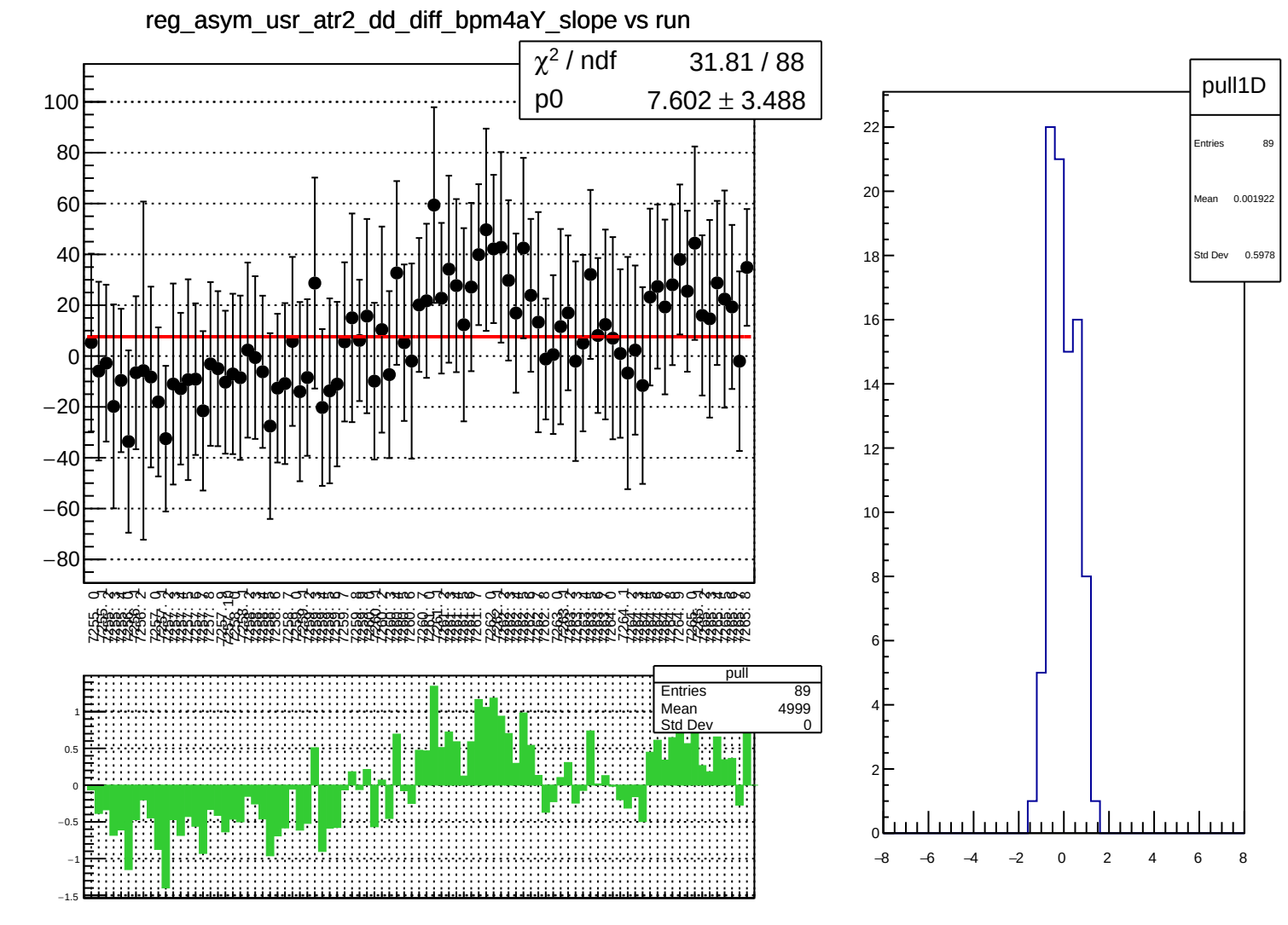

pull1D
Entries 89
Mean 0.08942
Std Dev 1.021

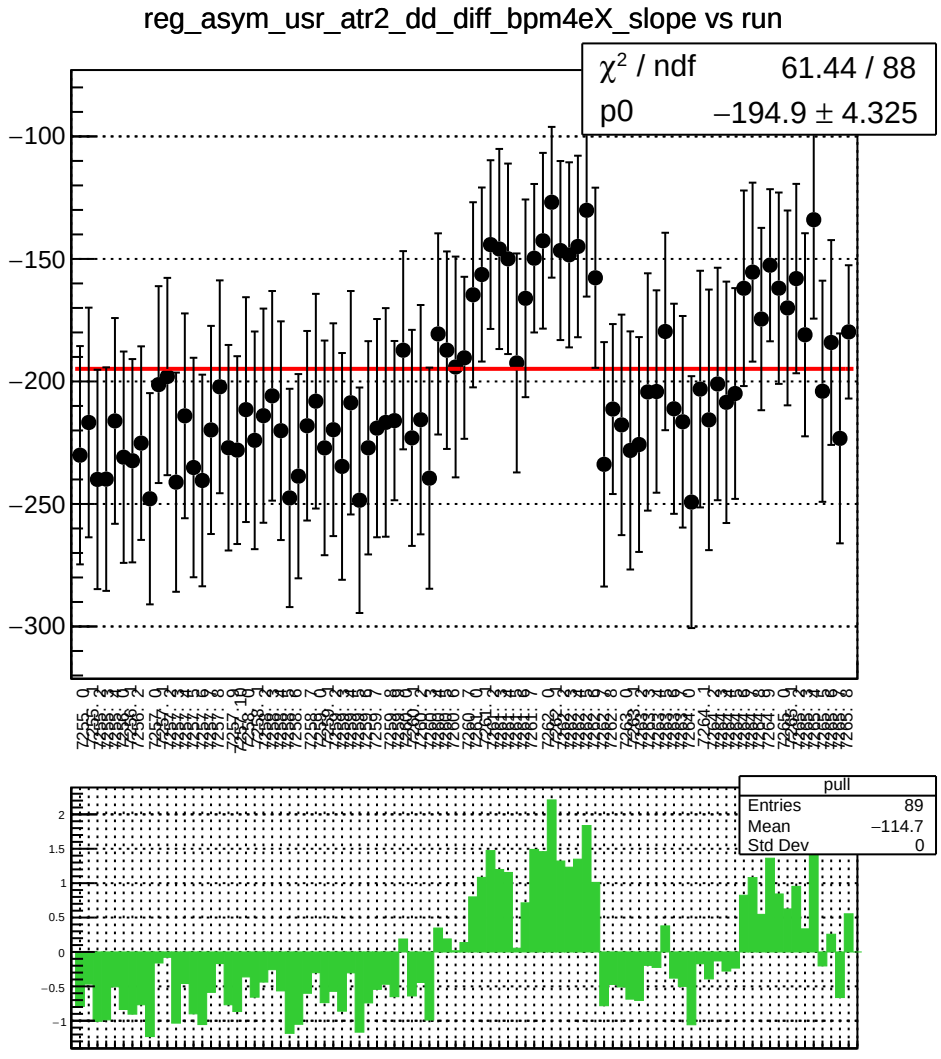

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 48.19 / 88
p0 87.85 ± 5.053
pull
Entries 89
Mean −2795
Std Dev 0
pull1D
Entries 89
Mean −0.004136
Std Dev 0.7358

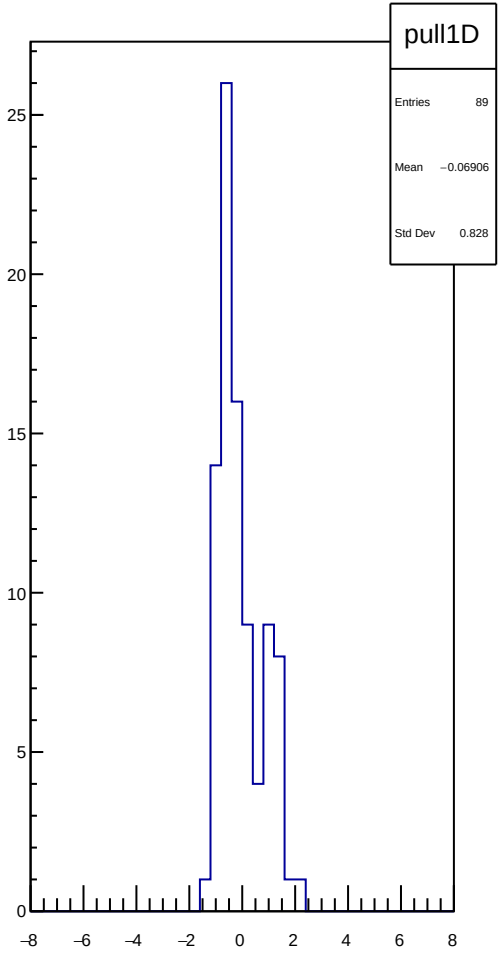

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 14.2 / 88
p0 −144.1 ± 0.2092
pull
Entries 89
Mean 19.49
Std Dev 0
pull1D
Entries 89
Mean −0.007718
Std Dev 0.3993

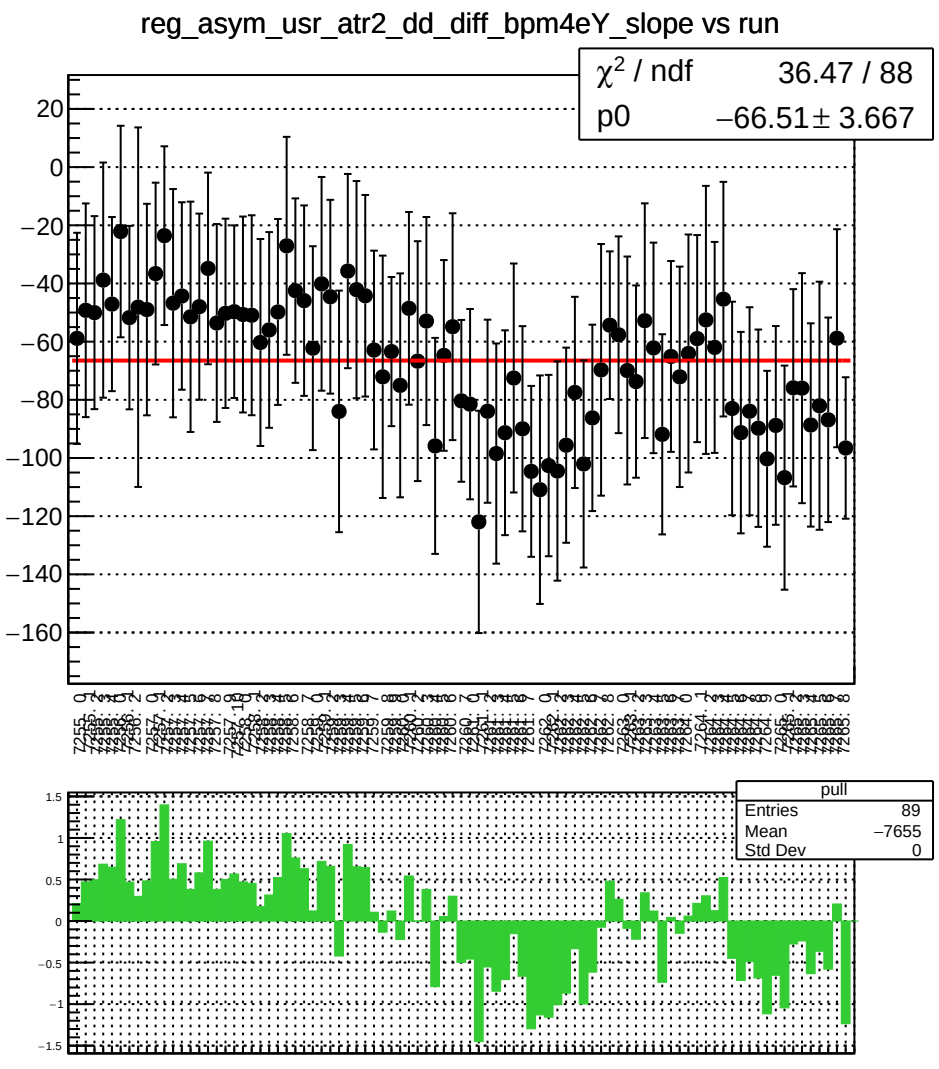

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 60.86 / 88
p0 163.7 ± 3.994
pull
Entries 89
Mean −126.5
Std Dev 0

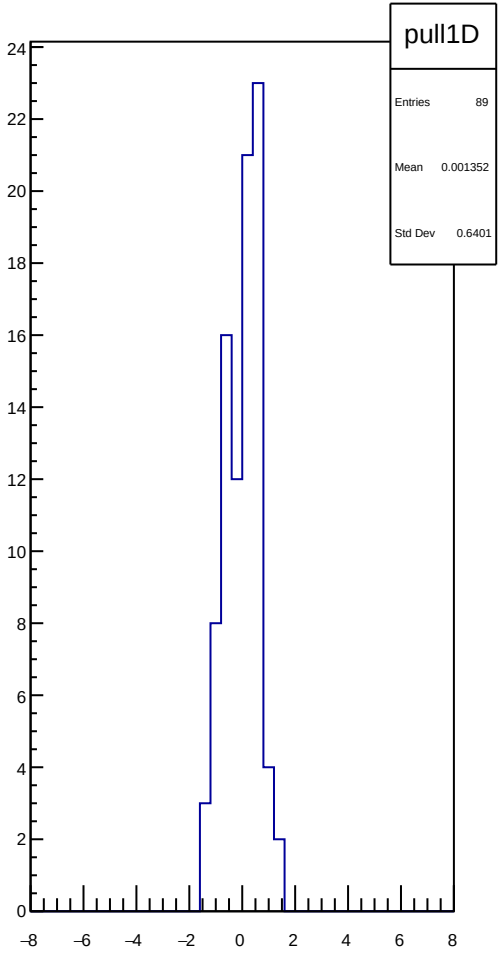

pull1D
Entries 89
Mean 0.06464
Std Dev 0.8244

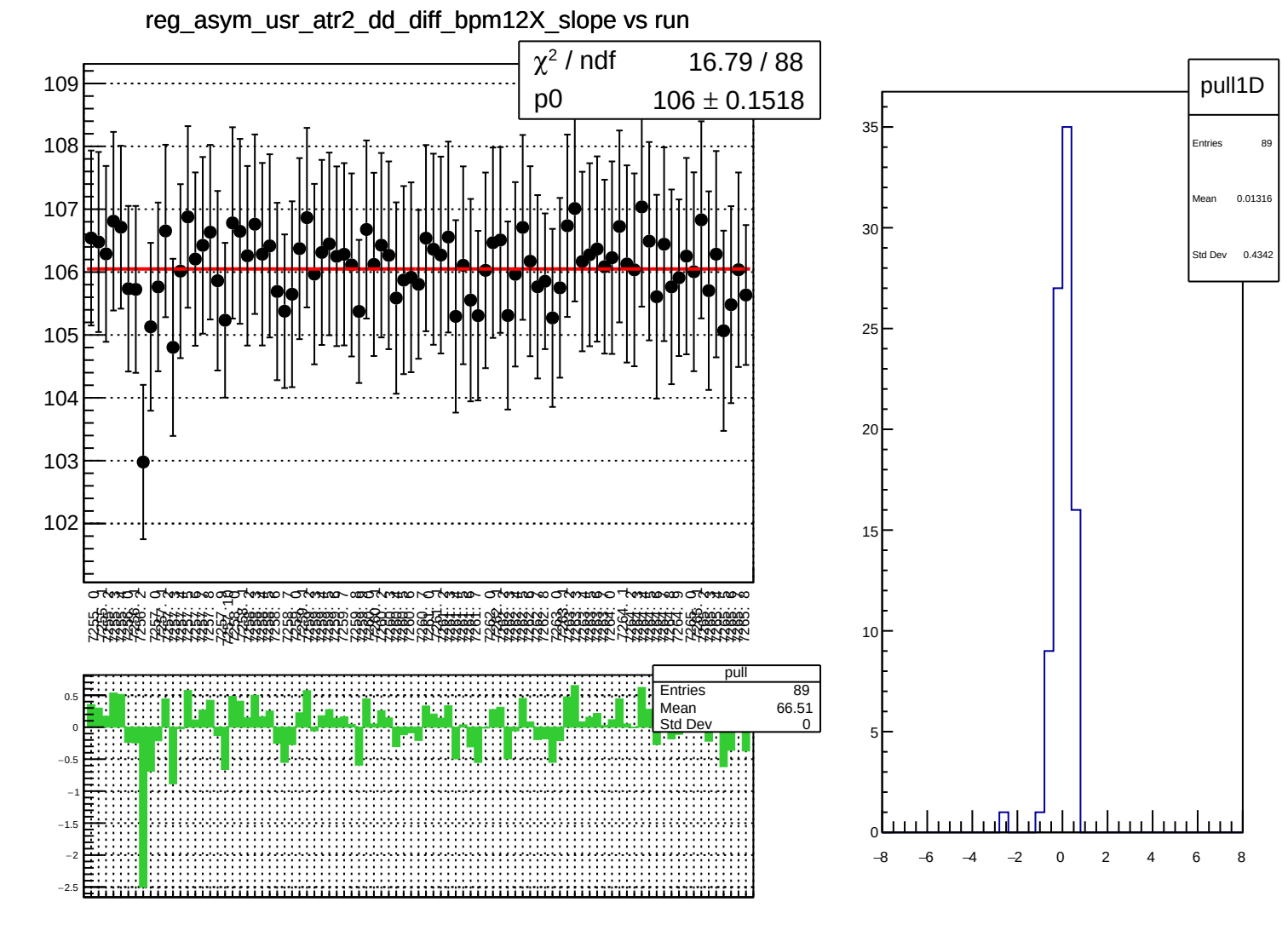

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.81 / 88
p0 7.602 ± 3.488
pull
Entries 89
Mean 4999
Std Dev 0
pull1D
Entries 89
Mean 0.001922
Std Dev 0.5978

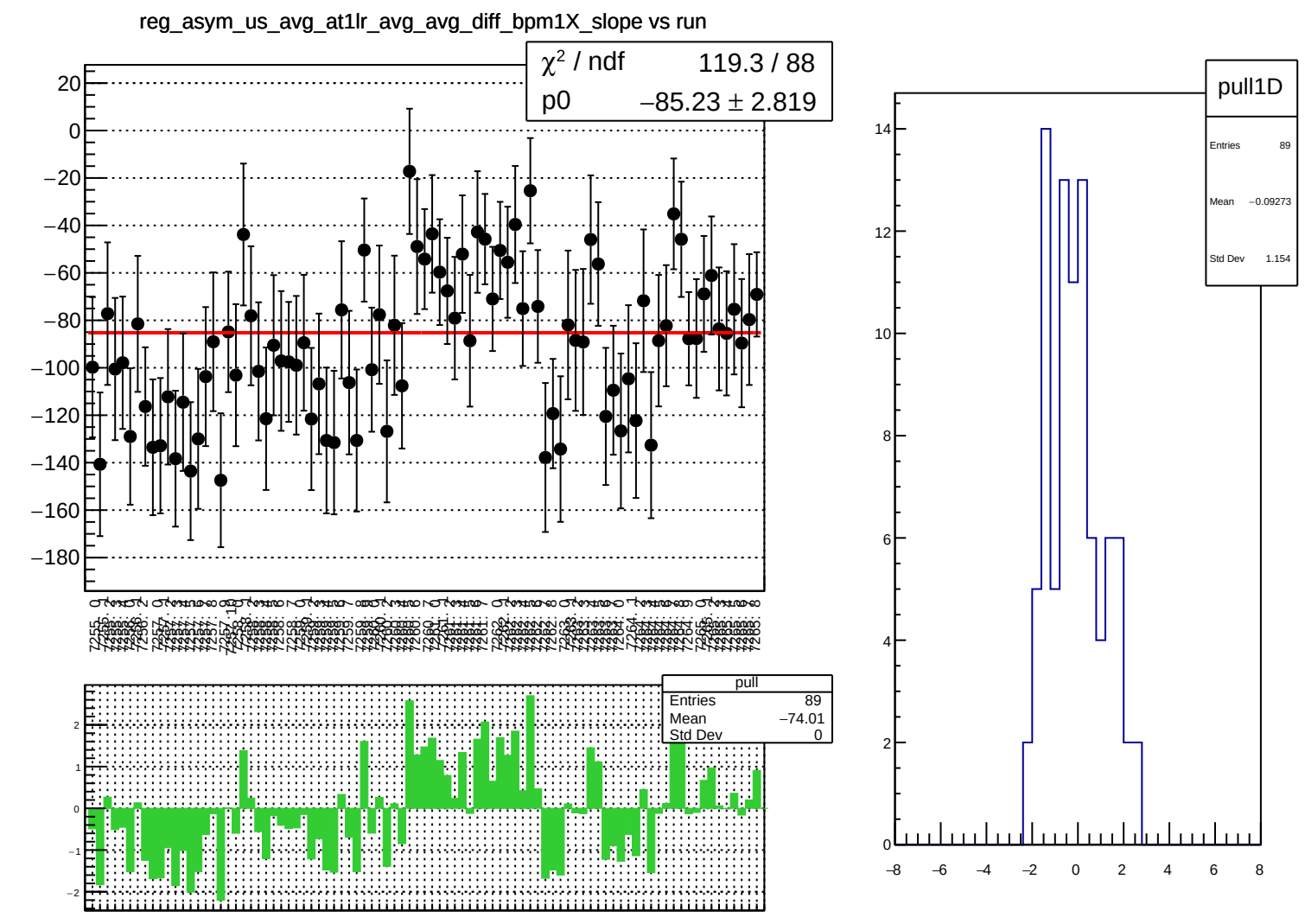

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.44 / 88
p0 −194.9 ± 4.325
pull
Entries 89
Mean −114.7
Std Dev 0

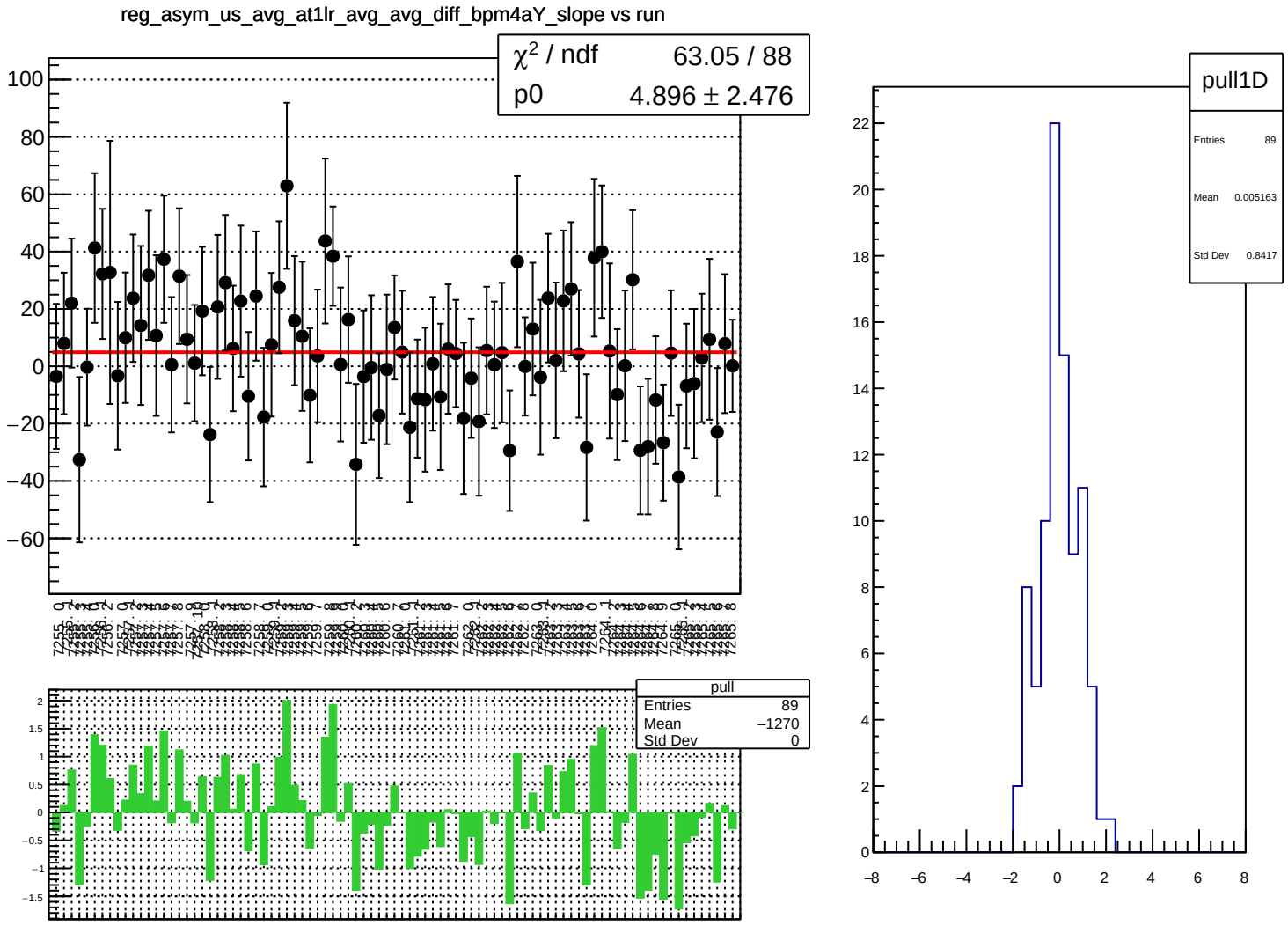

pull1D
Entries 89
Mean −0.06906
Std Dev 0.828

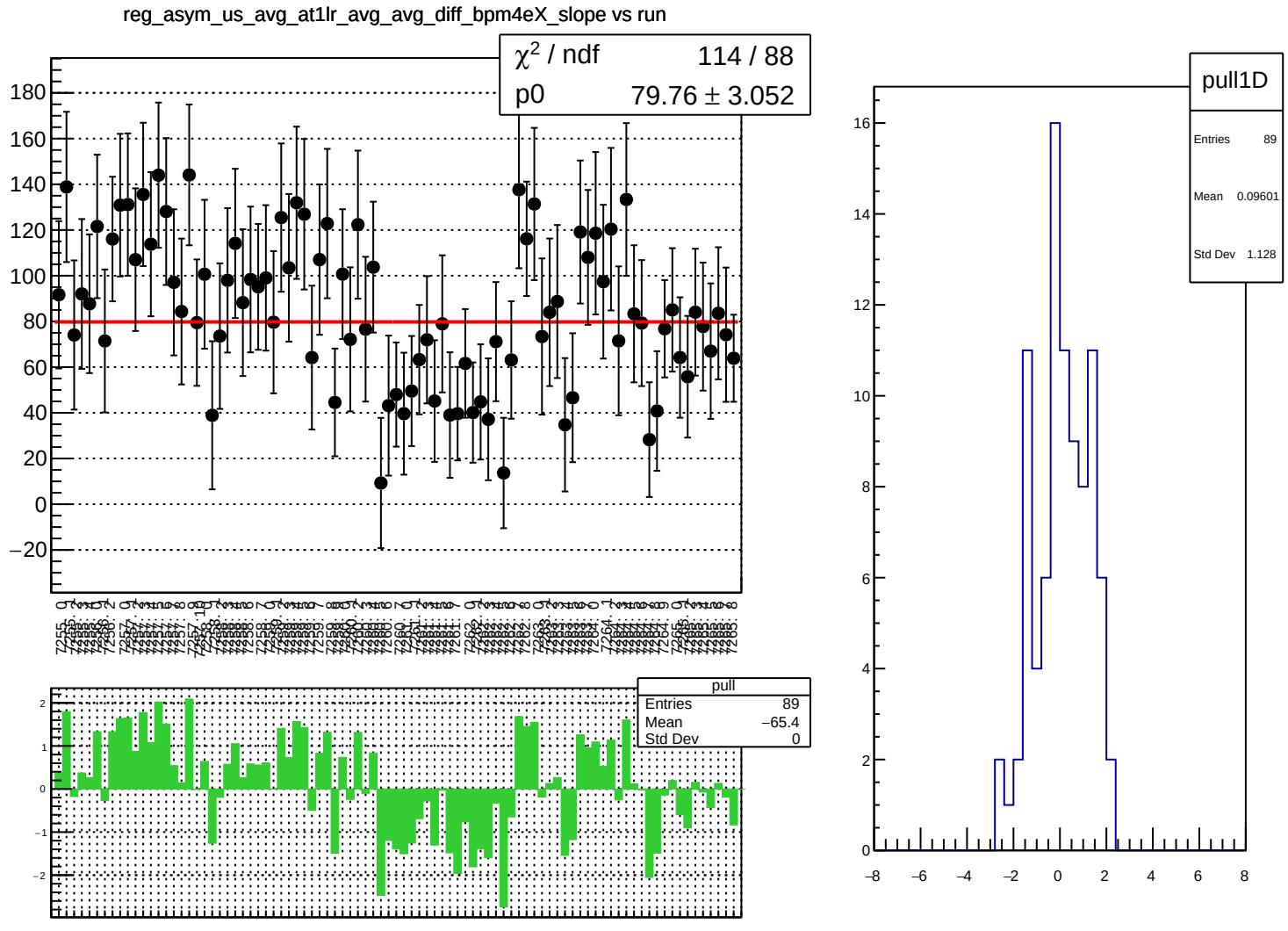

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.47 / 88
p0 −66.51 ± 3.667
pull
Entries 89
Mean −7655
Std Dev 0

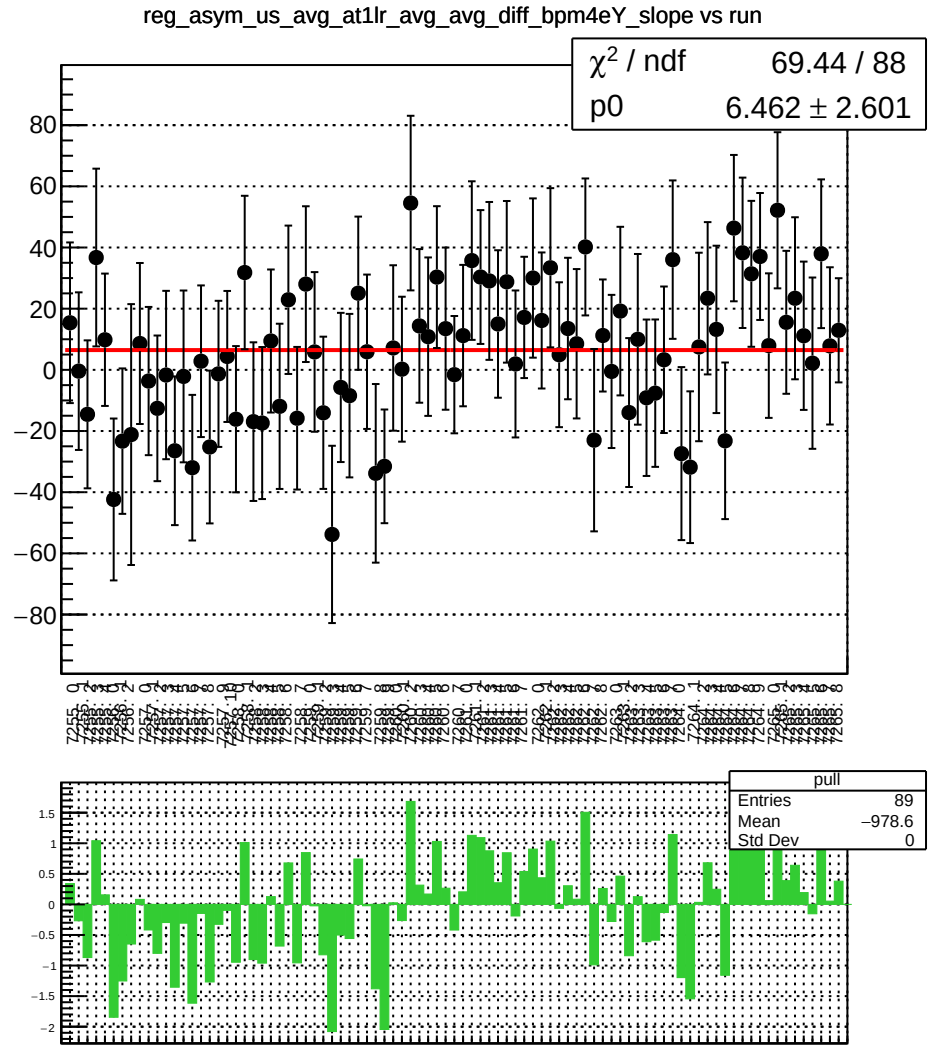

pull1D
Entries 89
Mean 0.001352
Std Dev 0.6401

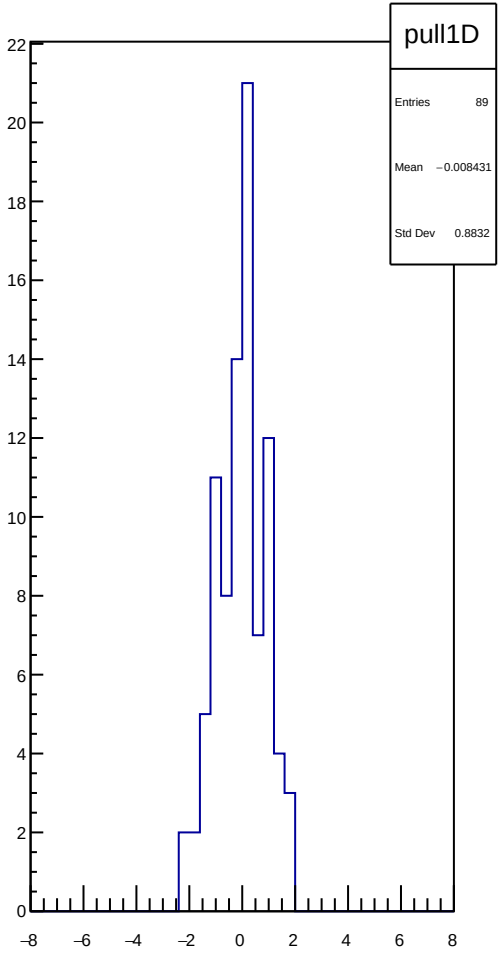

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 16.79 / 88
p0 106 ± 0.1518
pull
Entries 89
Mean 66.51
Std Dev 0
pull1D
Entries 89
Mean 0.01316
Std Dev 0.4342

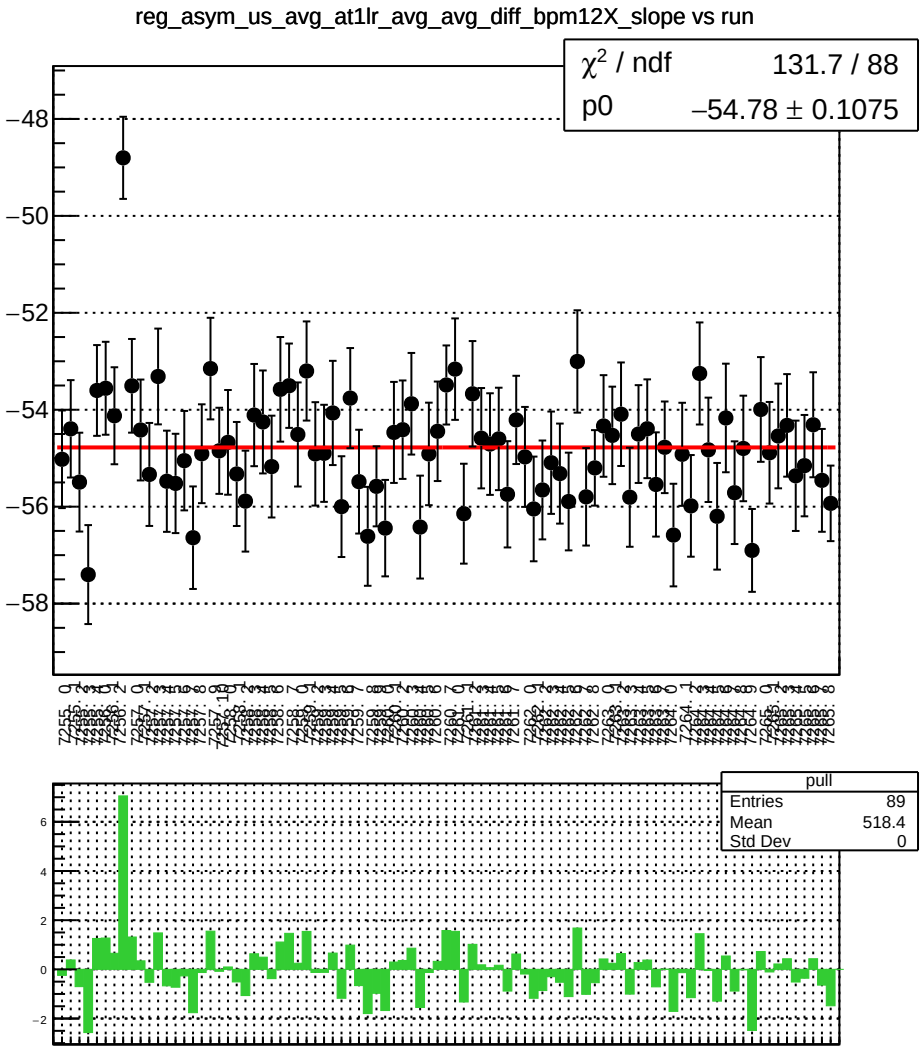

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 119.3 / 88
p0 −85.23 ± 2.819
pull
Entries 89
Mean −74.01
Std Dev 0
pull1D
Entries 89
Mean −0.09273
Std Dev 1.154

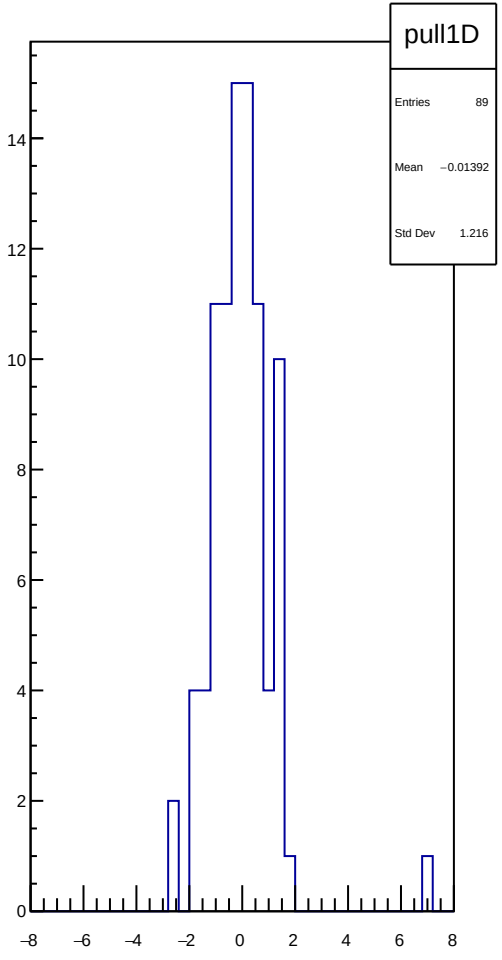

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 63.05 / 88
p0 4.896 ± 2.476
pull
Entries 89
Mean −1270
Std Dev 0
pull1D
Entries 89
Mean 0.005163
Std Dev 0.8417

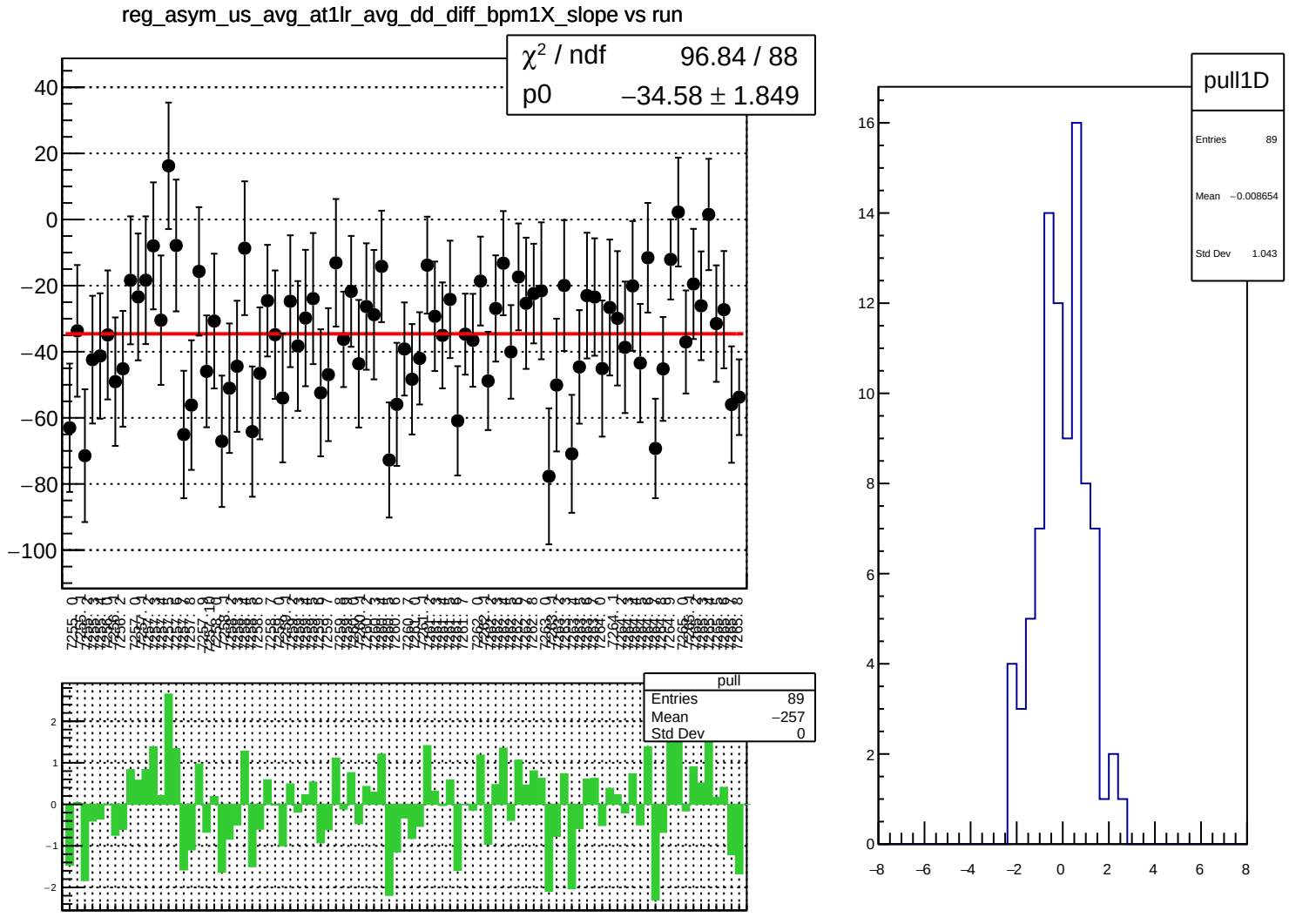

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 114 / 88
p0 79.76 ± 3.052
pull
Entries 89
Mean −65.4
Std Dev 0
pull1D
Entries 89
Mean 0.09601
Std Dev 1.128

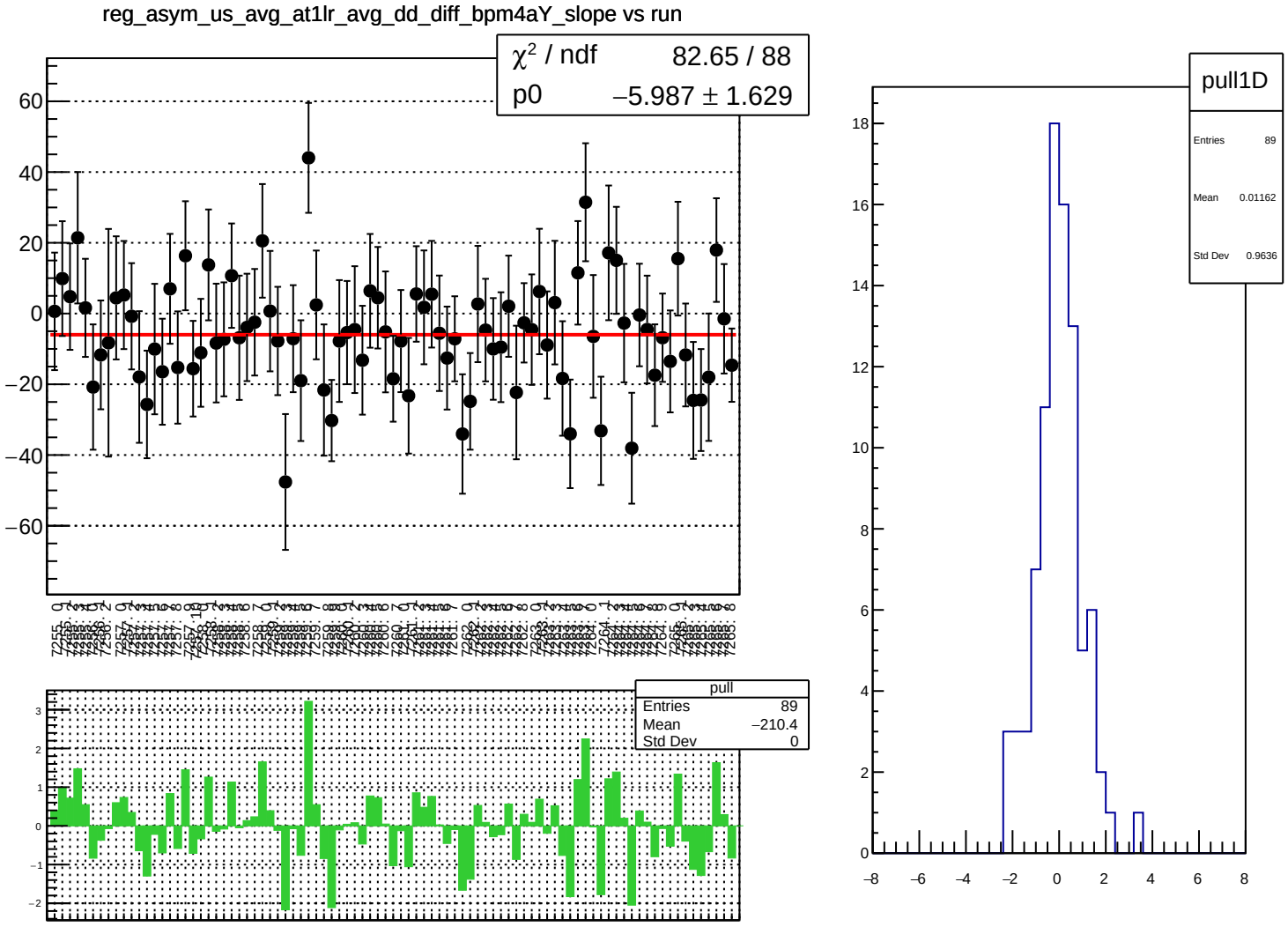

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 69.44 / 88
p0 6.462 ± 2.601
pull
Entries 89
Mean −978.6
Std Dev 0

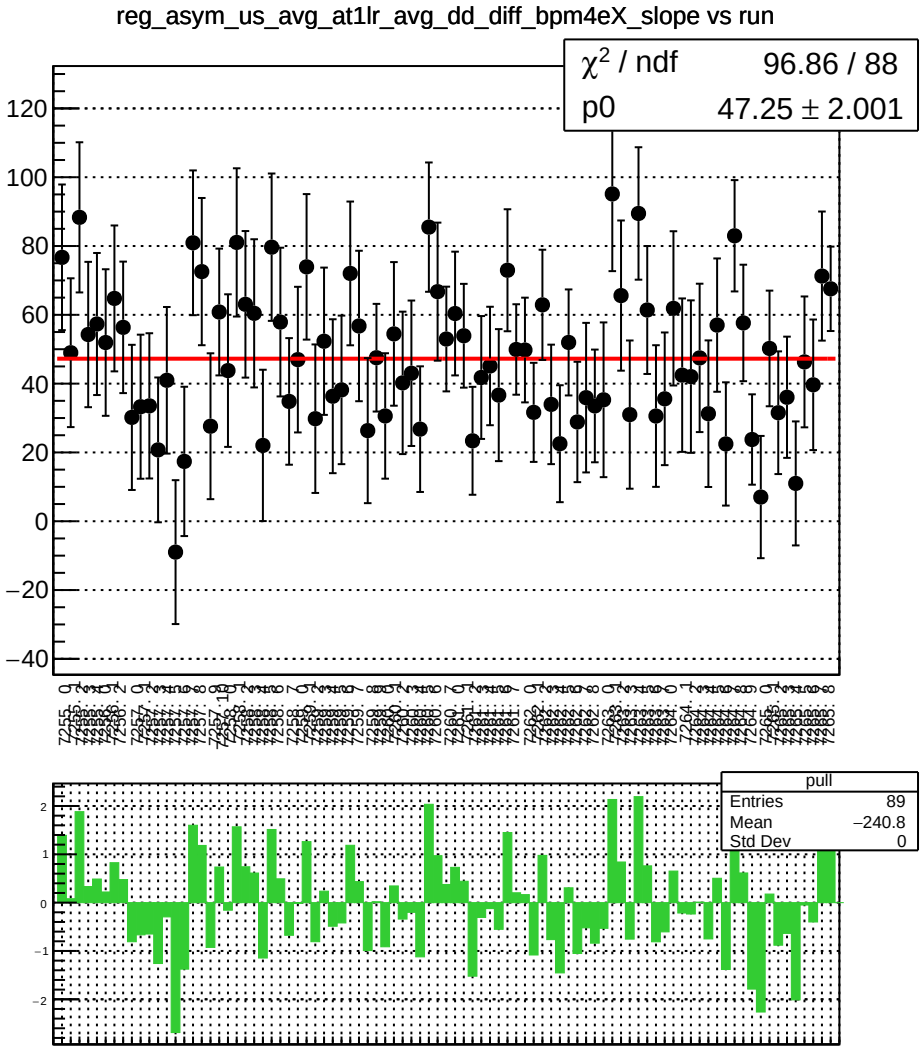

pull1D
Entries 89
Mean −0.008431
Std Dev 0.8832

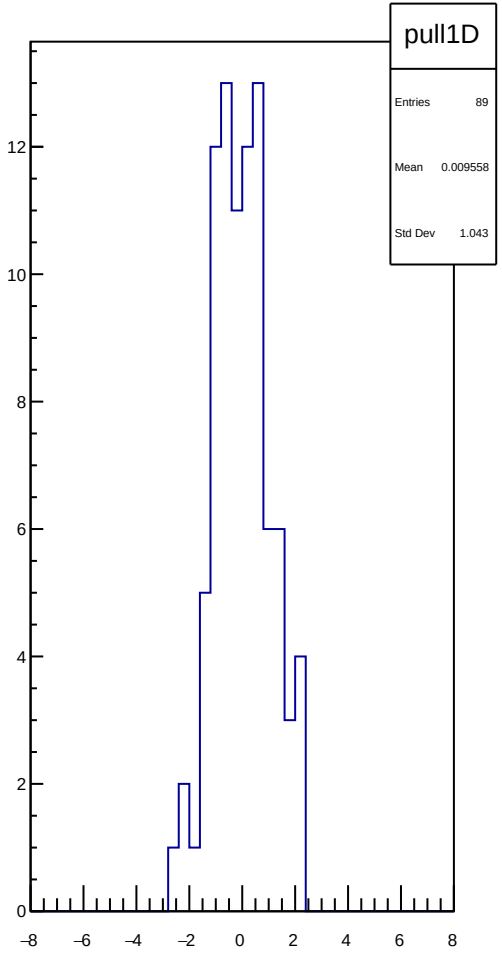

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 131.7 / 88
p0 −54.78 ± 0.1075
−48
−50
−52
−54
−56
−58
pull
Entries 89
Mean 518.4
Std Dev 0
6
4
2
0
−2

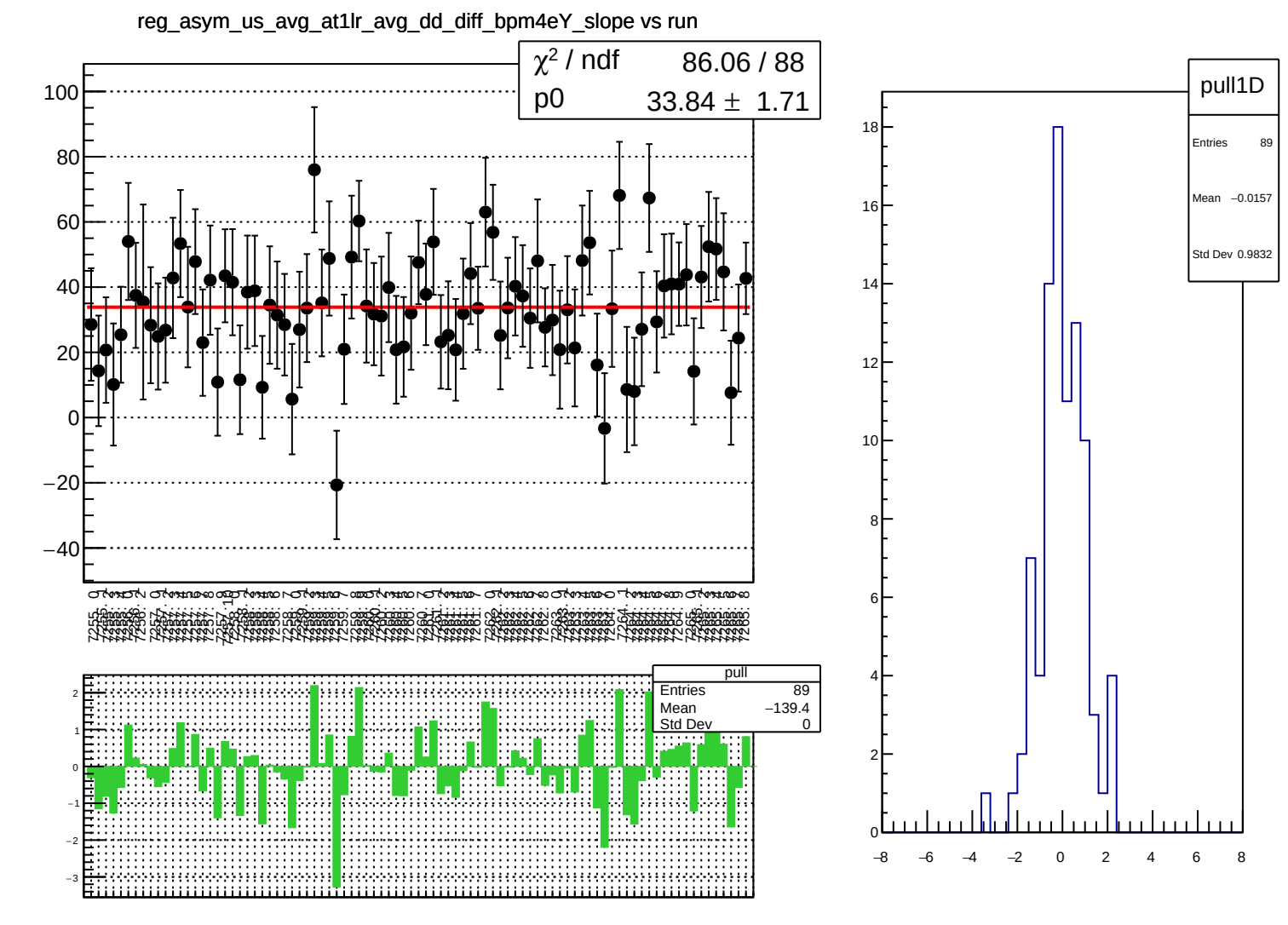

pull1D
Entries 89
Mean −0.01392
Std Dev 1.216
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

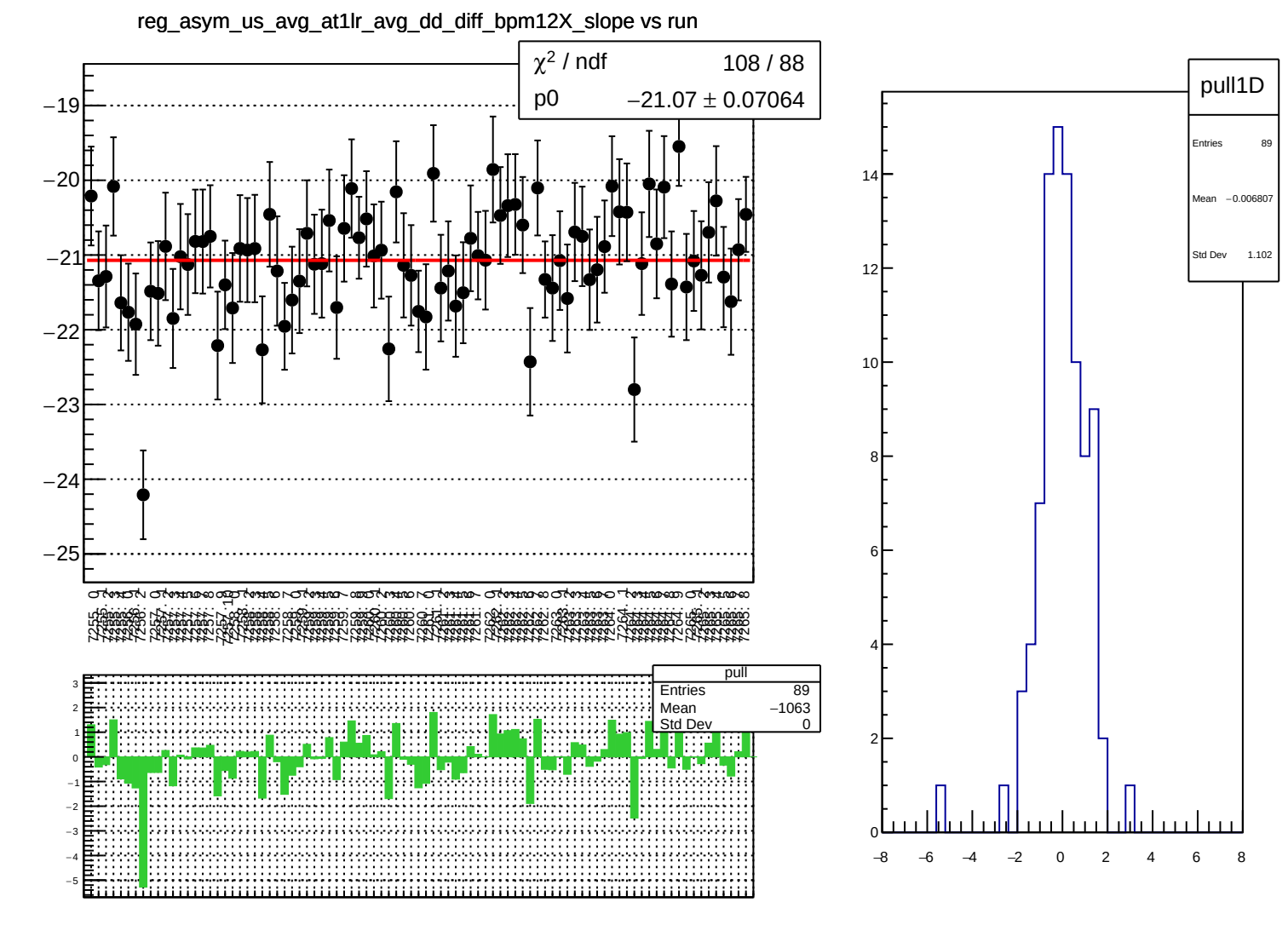

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 96.84 / 88
p0 −34.58 ± 1.849
pull
Entries 89
Mean −257
Std Dev 0
pull1D
Entries 89
Mean −0.008654
Std Dev 1.043

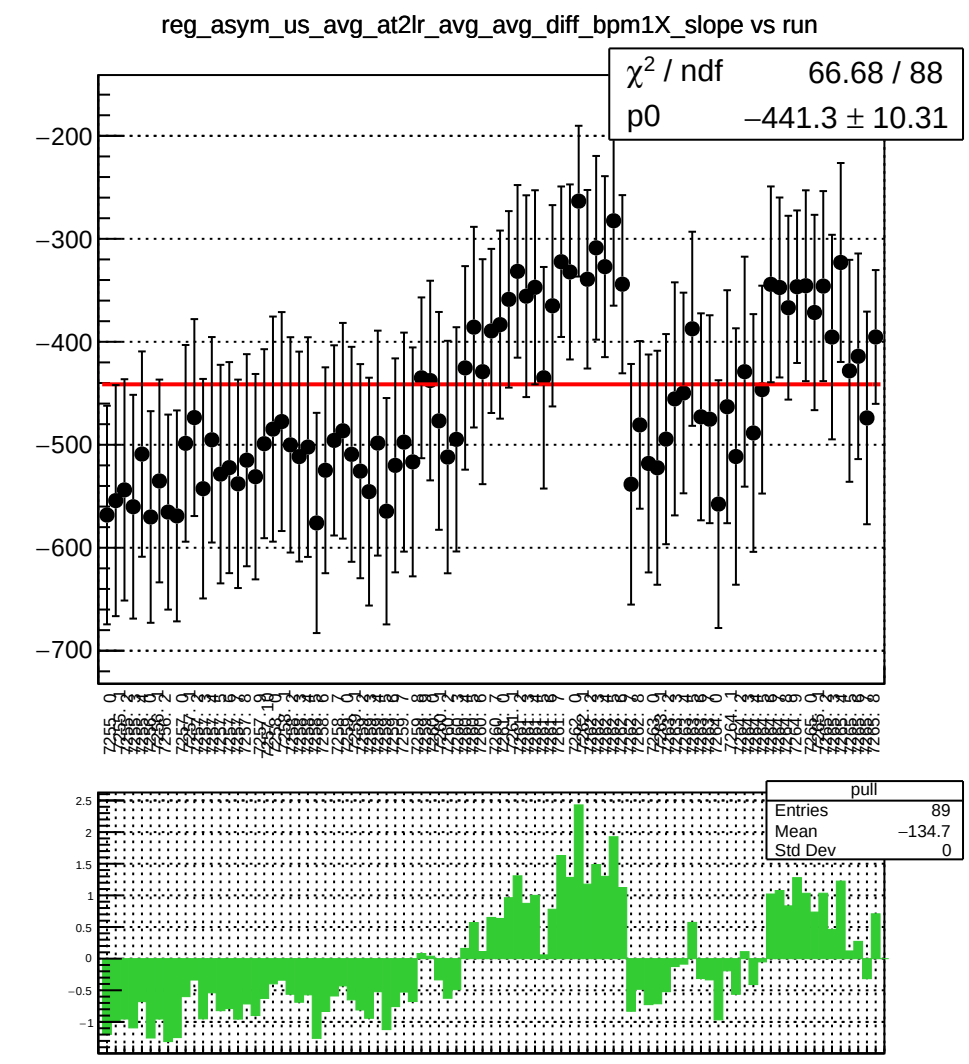

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.65 / 88
p0 −5.987 ± 1.629
pull
Entries 89
Mean −210.4
Std Dev 0
pull1D
Entries 89
Mean 0.01162
Std Dev 0.9636

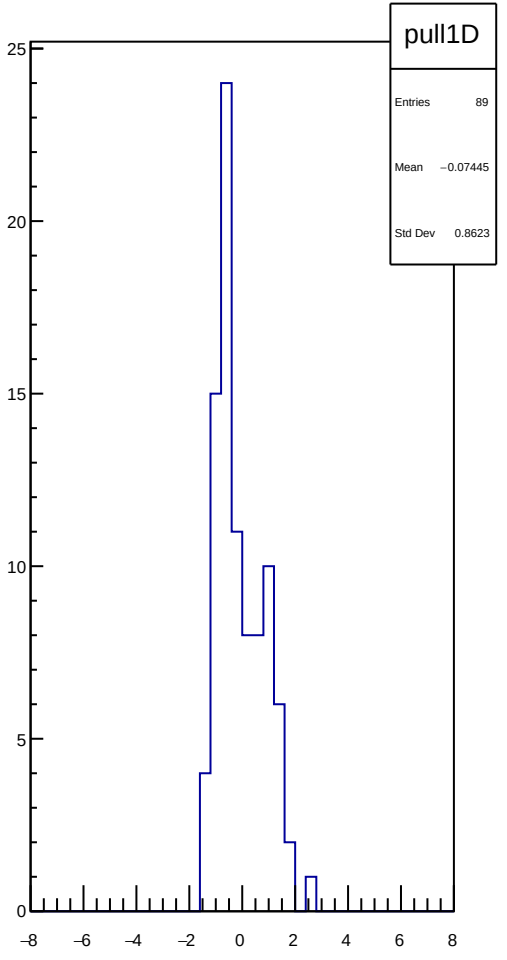

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 96.86 / 88
p0 47.25 ± 2.001
pull
Entries 89
Mean −240.8
Std Dev 0

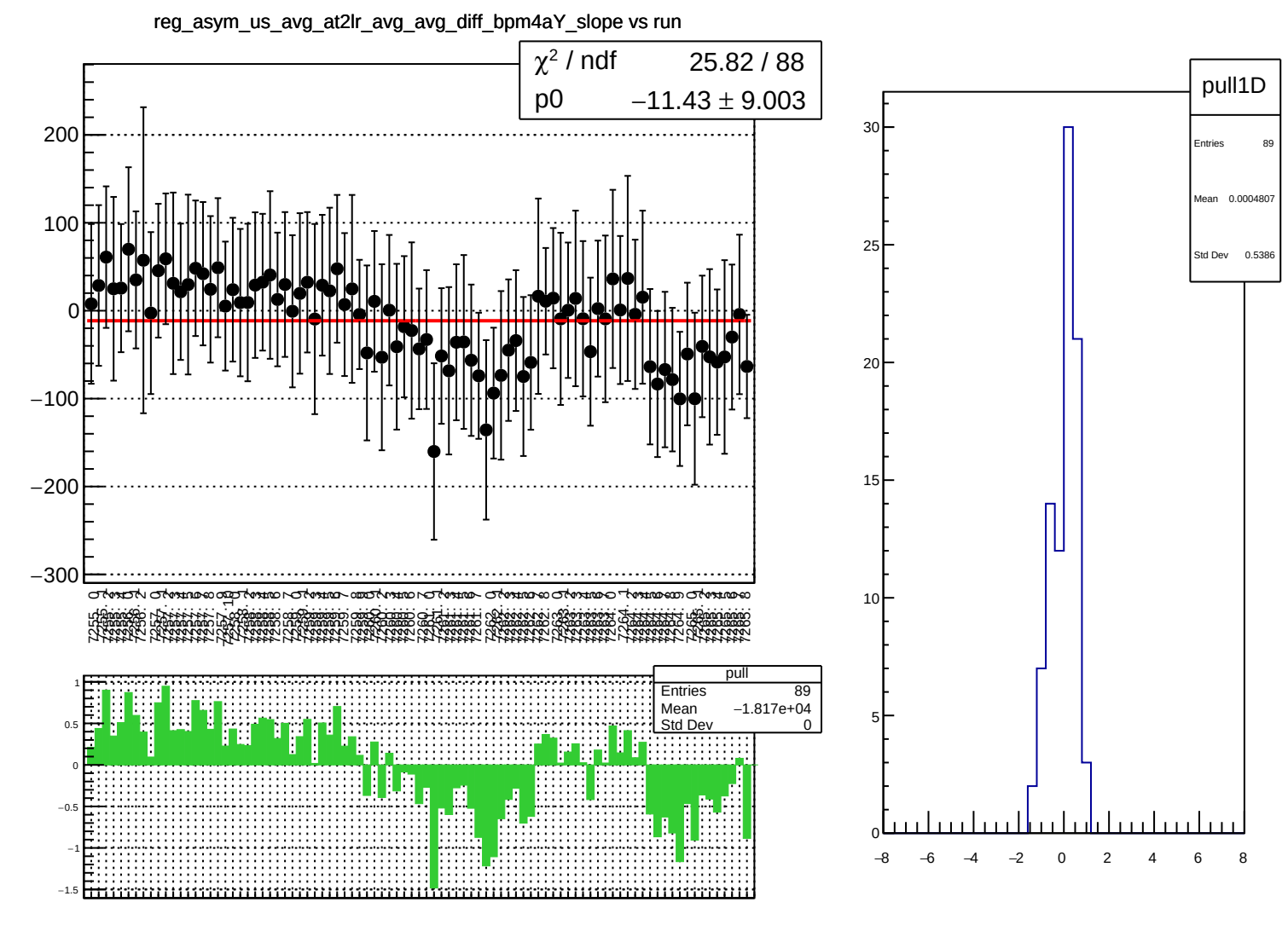

pull1D
Entries 89
Mean 0.009558
Std Dev 1.043

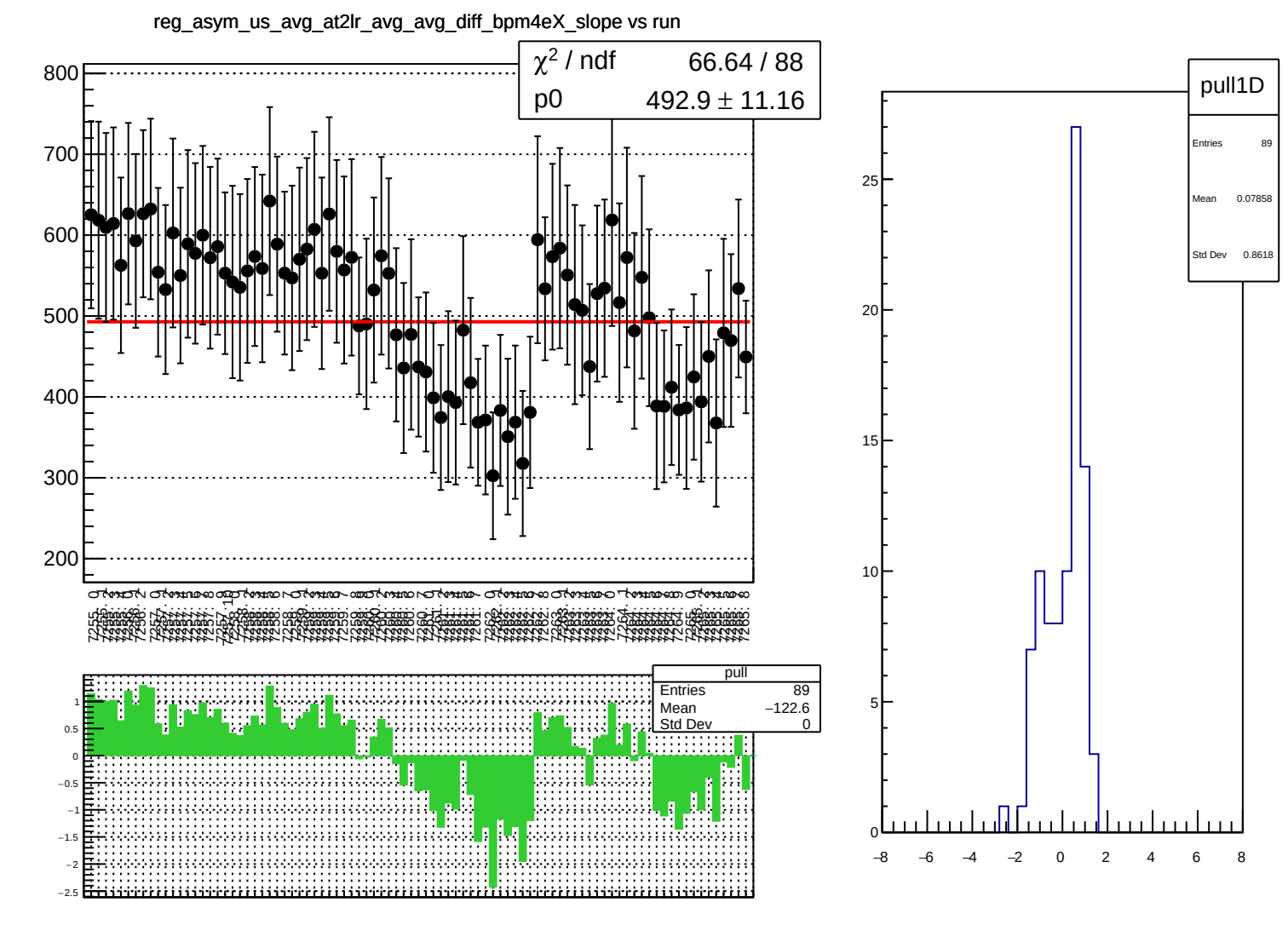

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 86.06 / 88
p0 33.84 ± 1.71
pull
Entries 89
Mean −139.4
Std Dev 0
pull1D
Entries 89
Mean −0.0157
Std Dev 0.9832

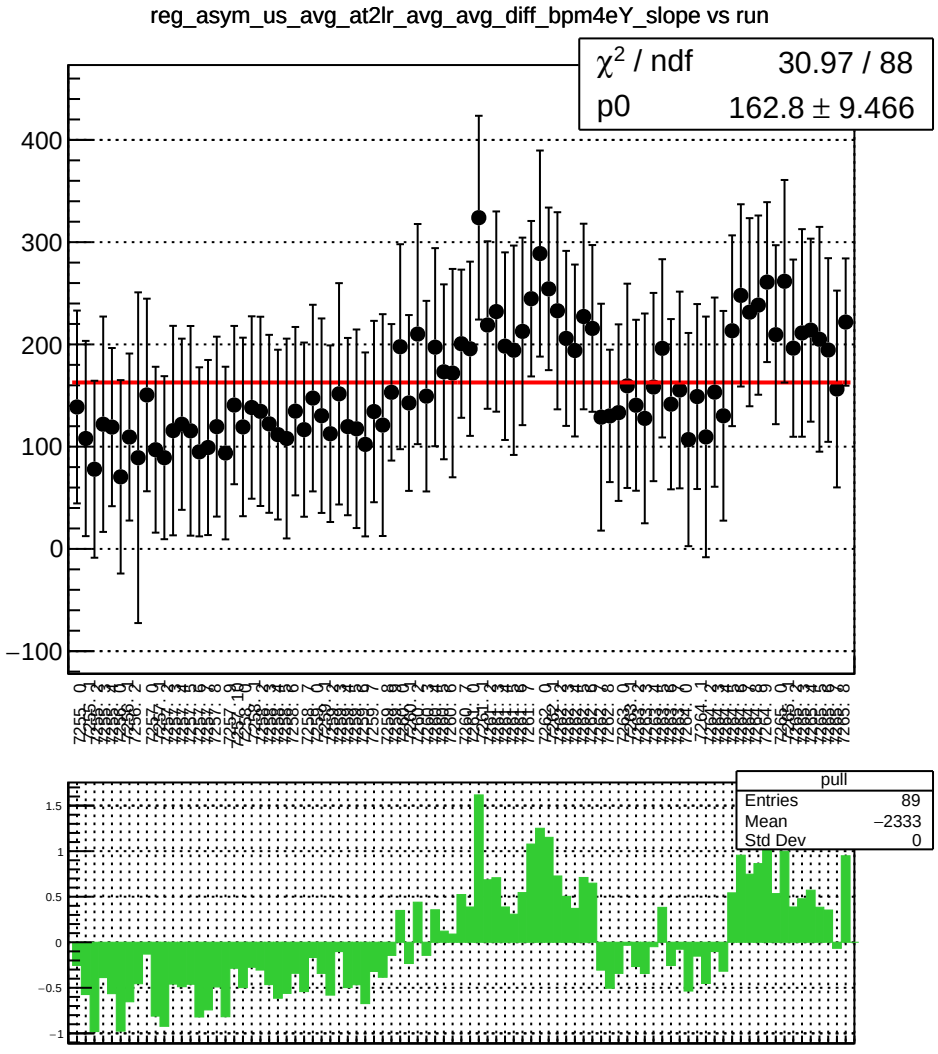

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 108 / 88
p0 −21.07 ± 0.07064
pull
Entries 89
Mean −1063
Std Dev 0
pull1D
Entries 89
Mean −0.006807
Std Dev 1.102

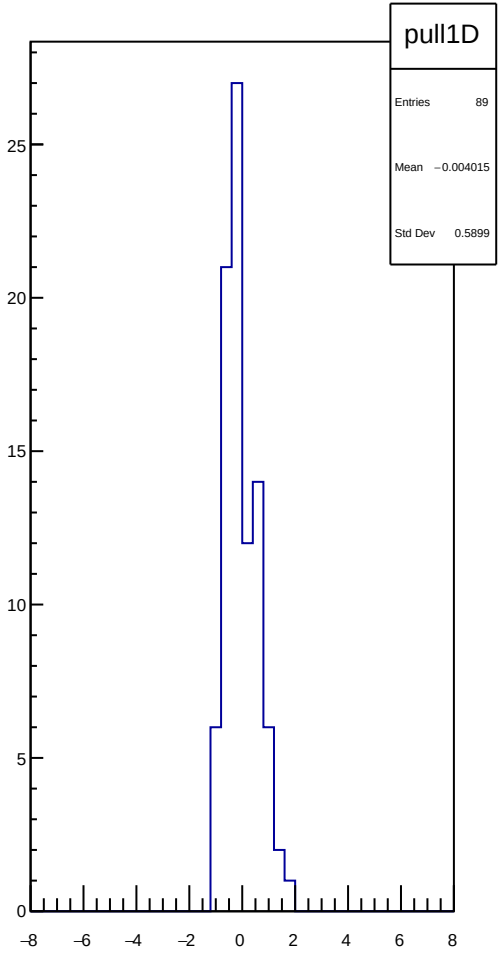

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 66.68 / 88
p0 −441.3 ± 10.31
pull
Entries 89
Mean −134.7
Std Dev 0

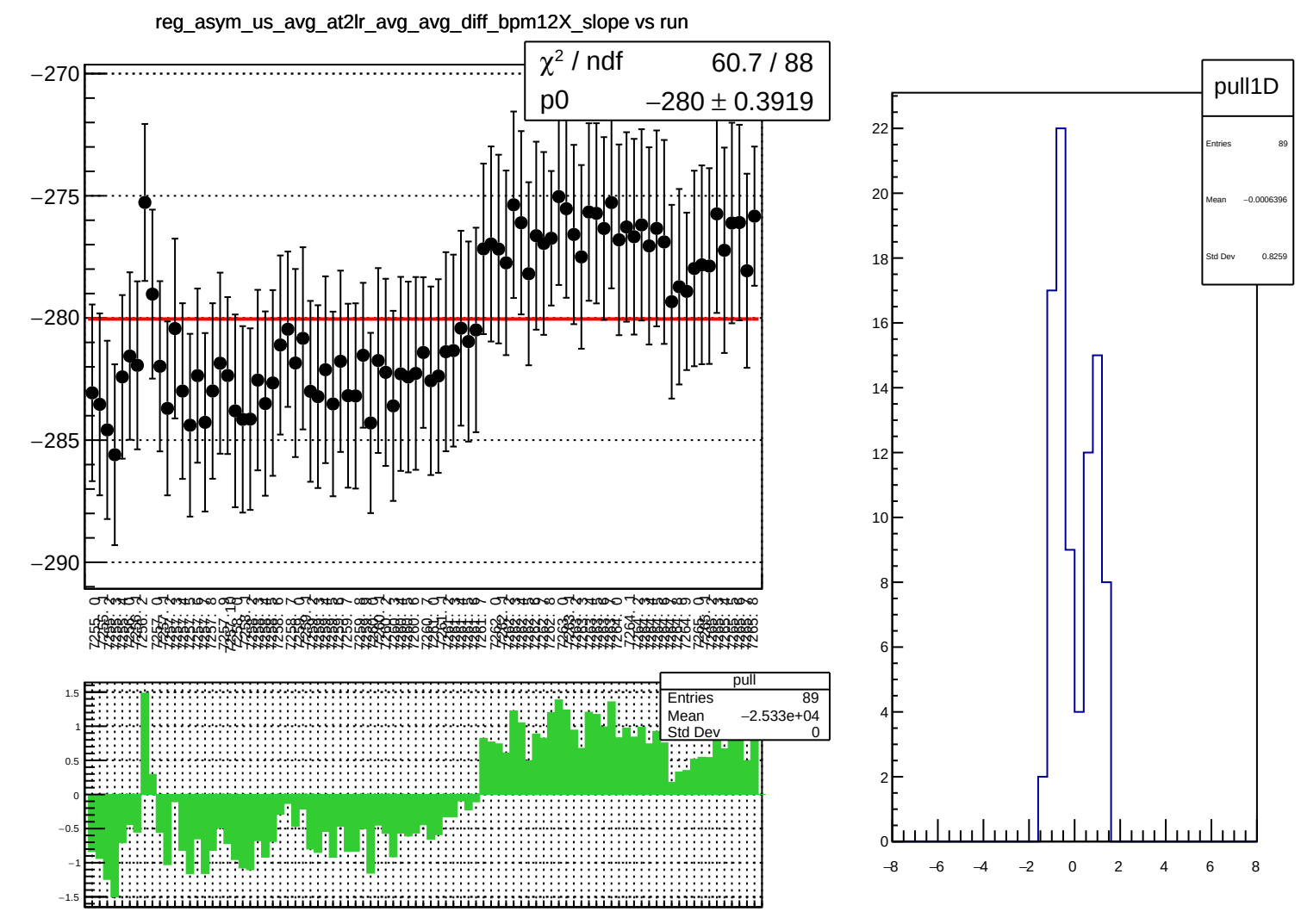

pull1D
Entries 89
Mean −0.07445
Std Dev 0.8623

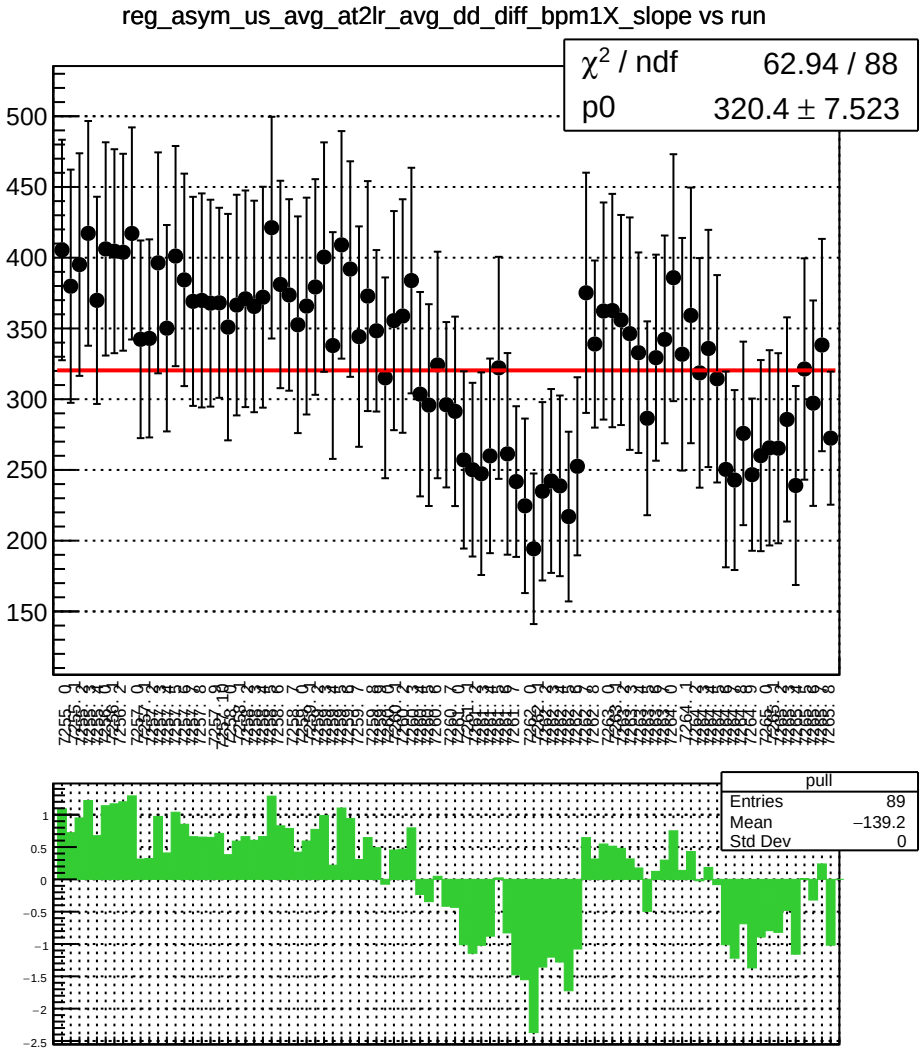

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.82 / 88
p0 −11.43 ± 9.003
200
100
0
−100
−200
−300
pull
Entries 89
Mean −1.817e+04
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.0004807
Std Dev 0.5386
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

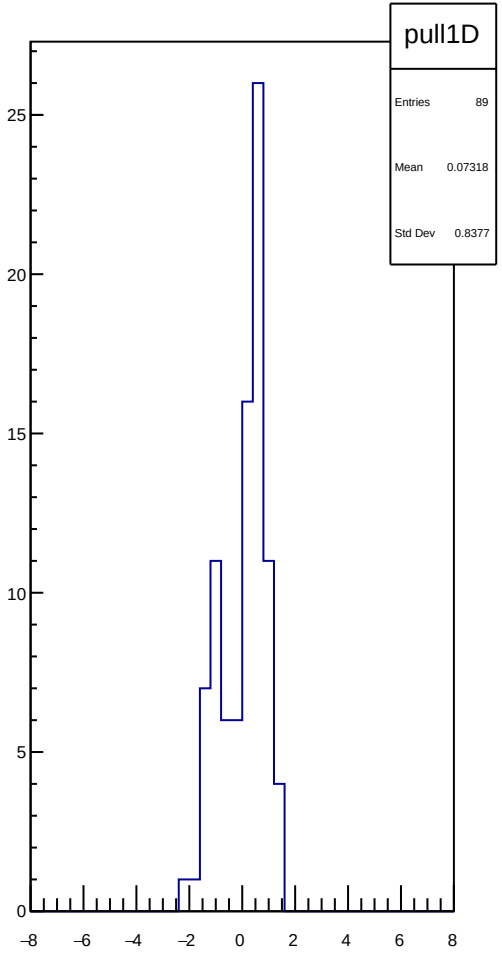

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.64 / 88
p0 492.9 ± 11.16
800
700
600
500
400
300
200
pull
Entries 89
Mean −122.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.07858
Std Dev 0.8618
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

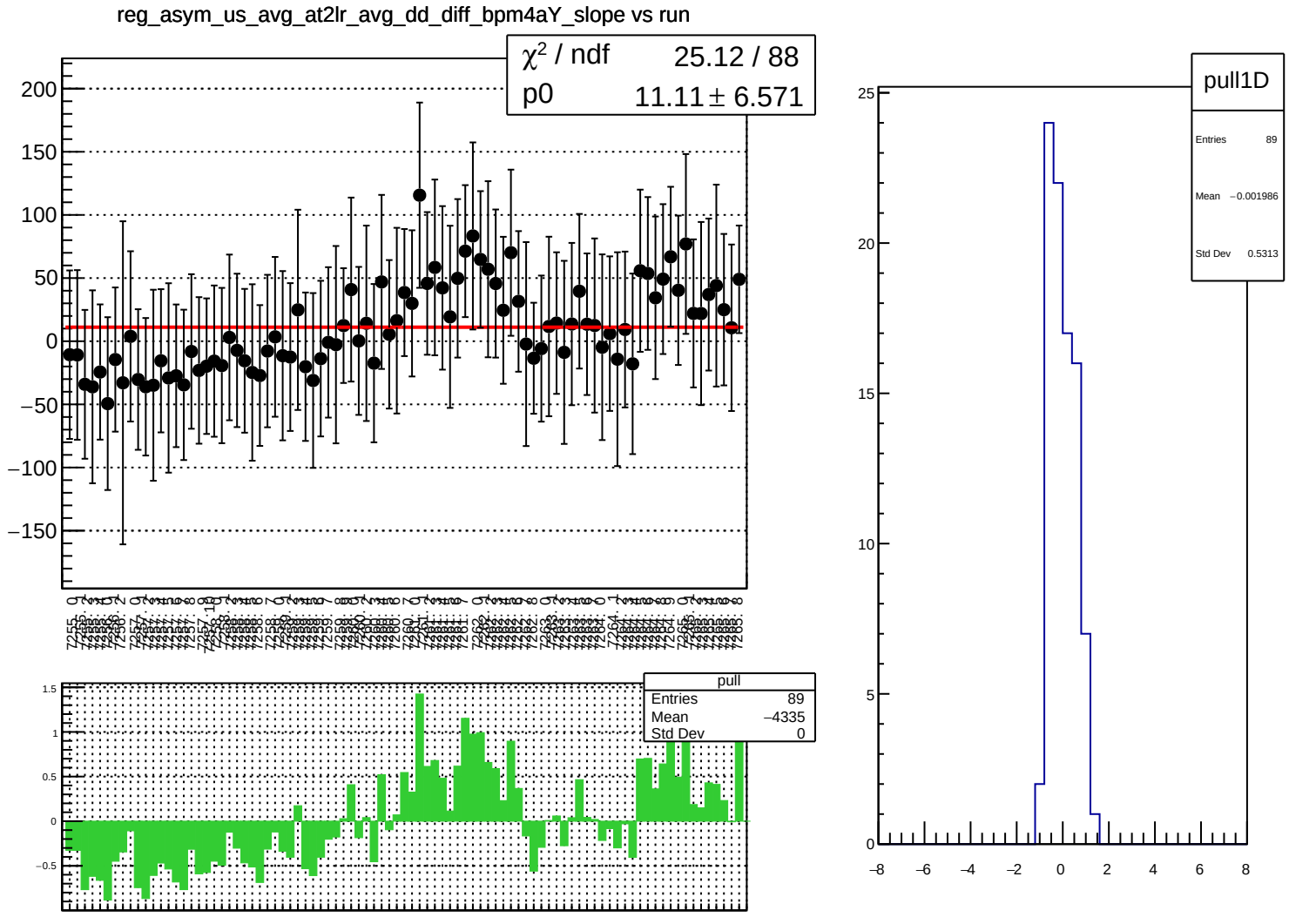

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.97 / 88
p0 162.8 ± 9.466
pull
Entries 89
Mean −2333
Std Dev 0

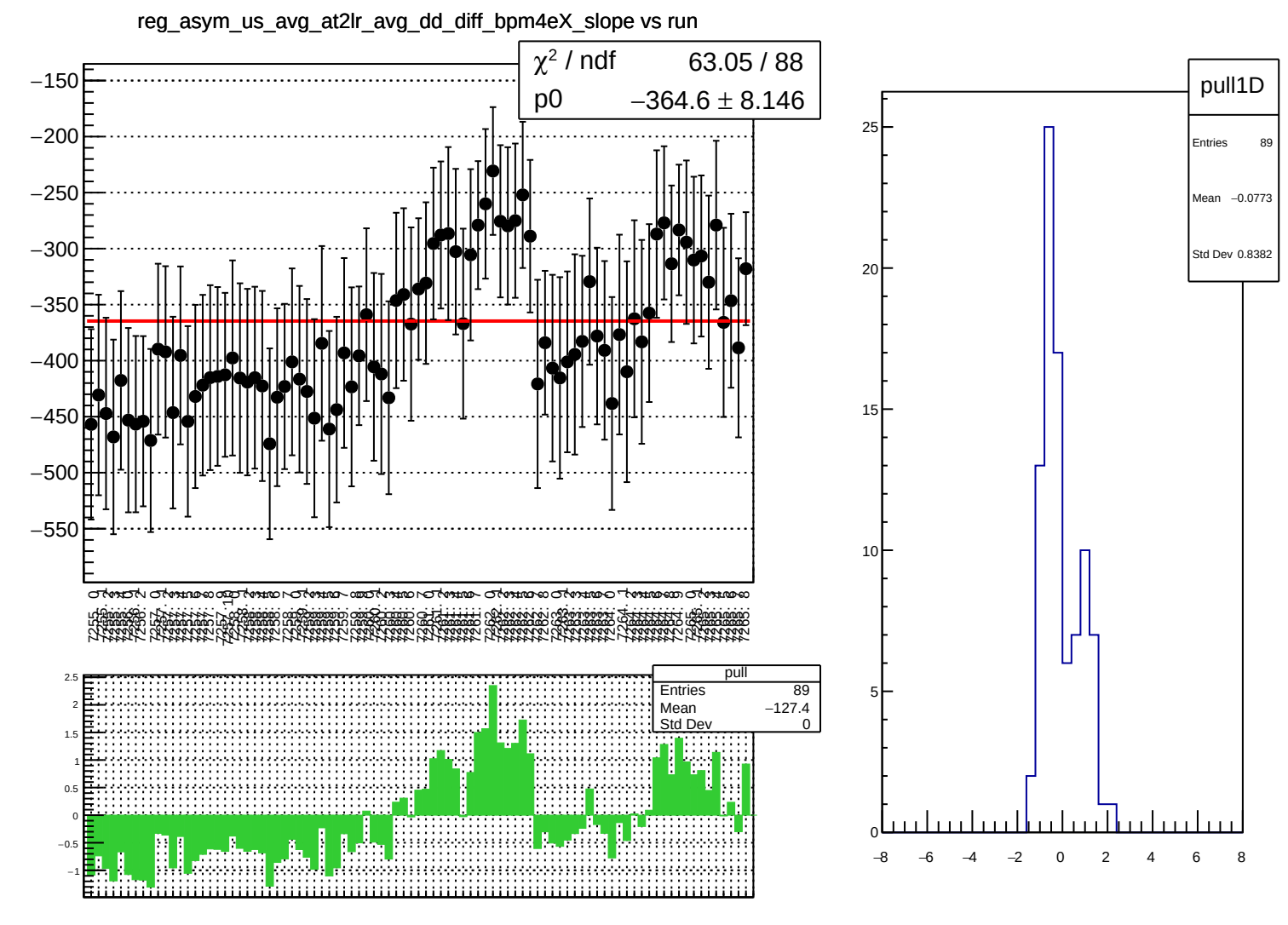

pull1D
Entries 89
Mean −0.004015
Std Dev 0.5899

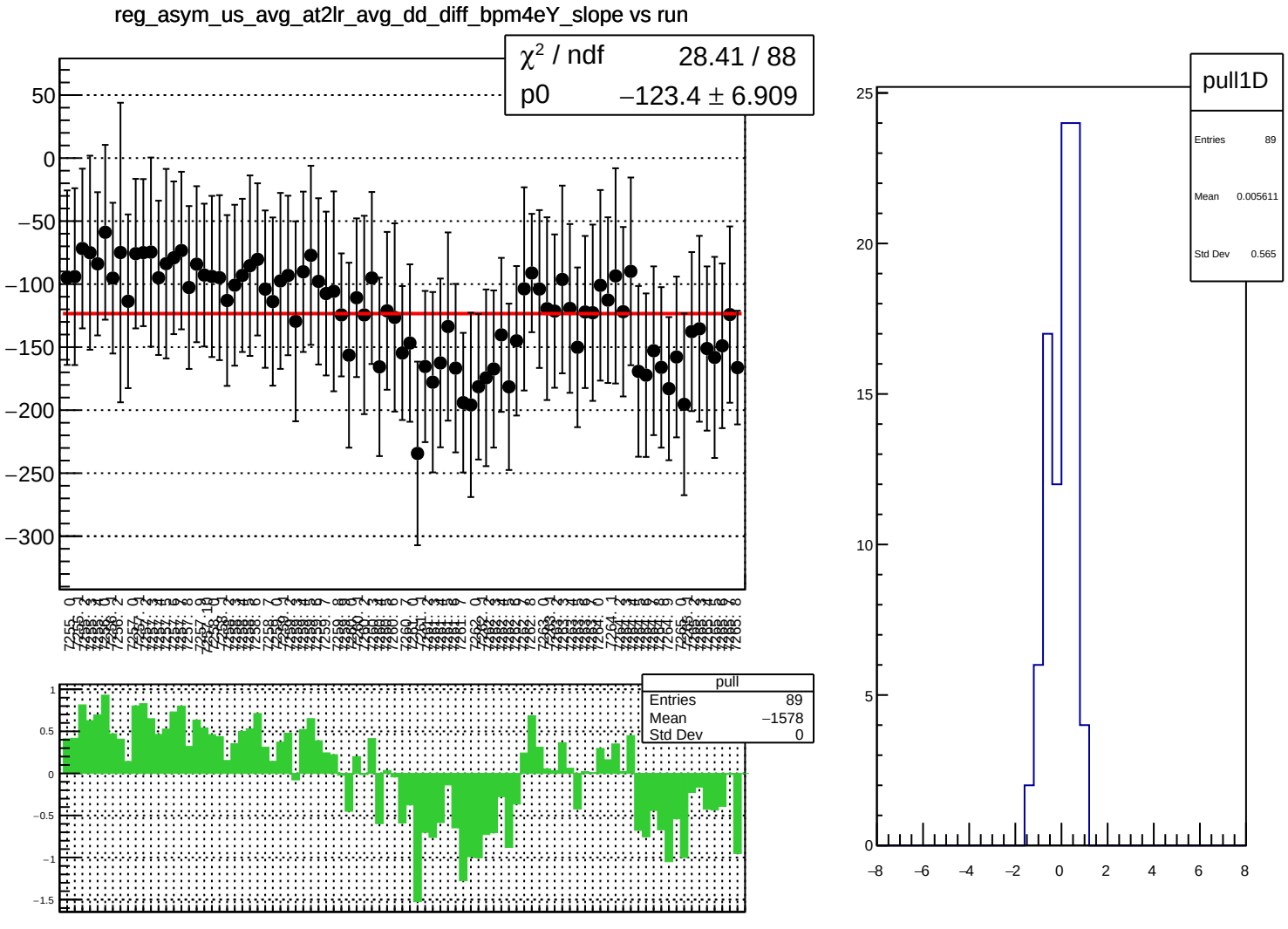

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 60.7 / 88
p0 −280 ± 0.3919
−270
−275
−280
−285
−290
pull
Entries 89
Mean −2.533e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.0006396
Std Dev 0.8259
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

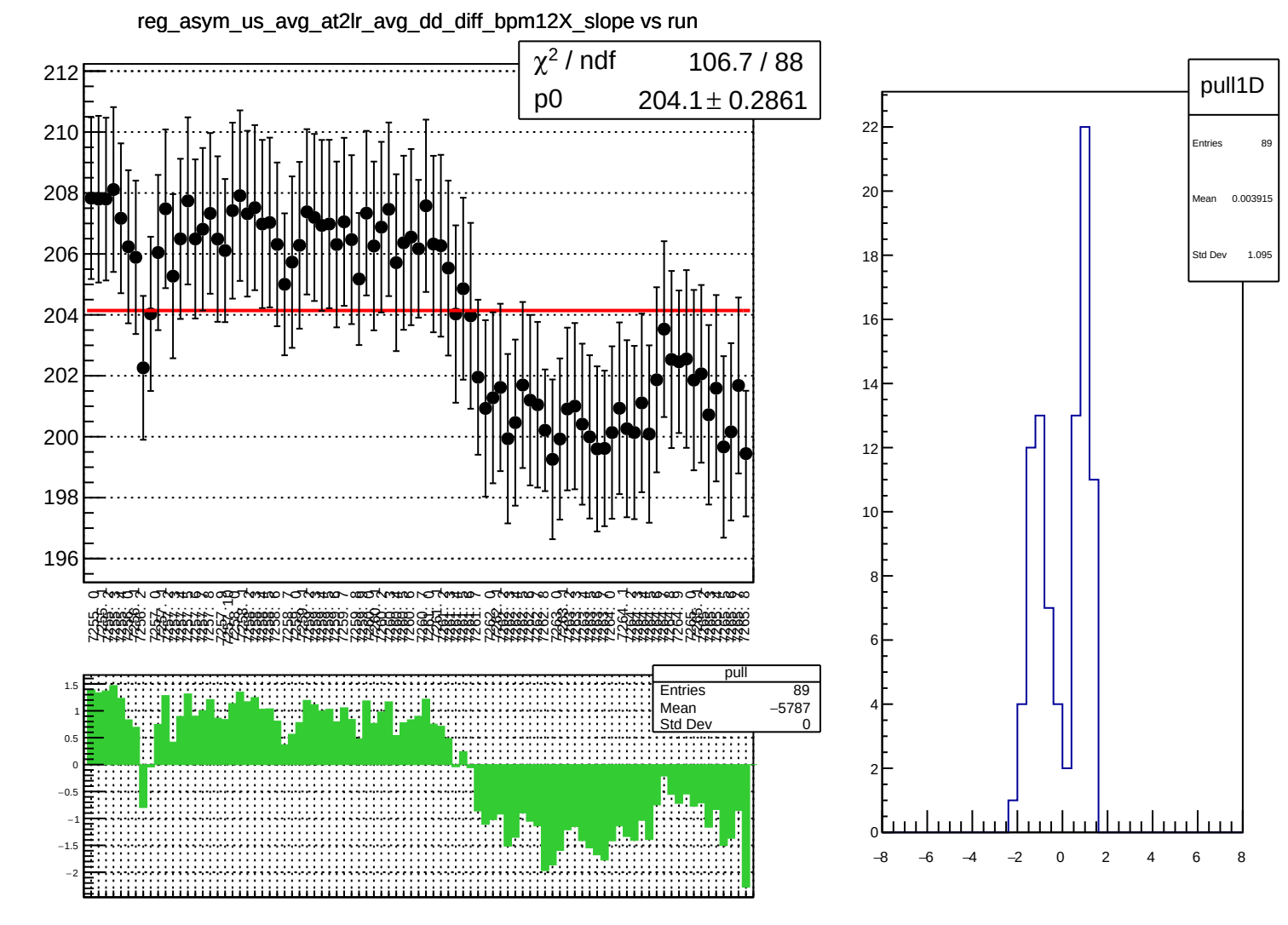

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 62.94 / 88
p0 320.4 ± 7.523
pull
Entries 89
Mean −139.2
Std Dev 0

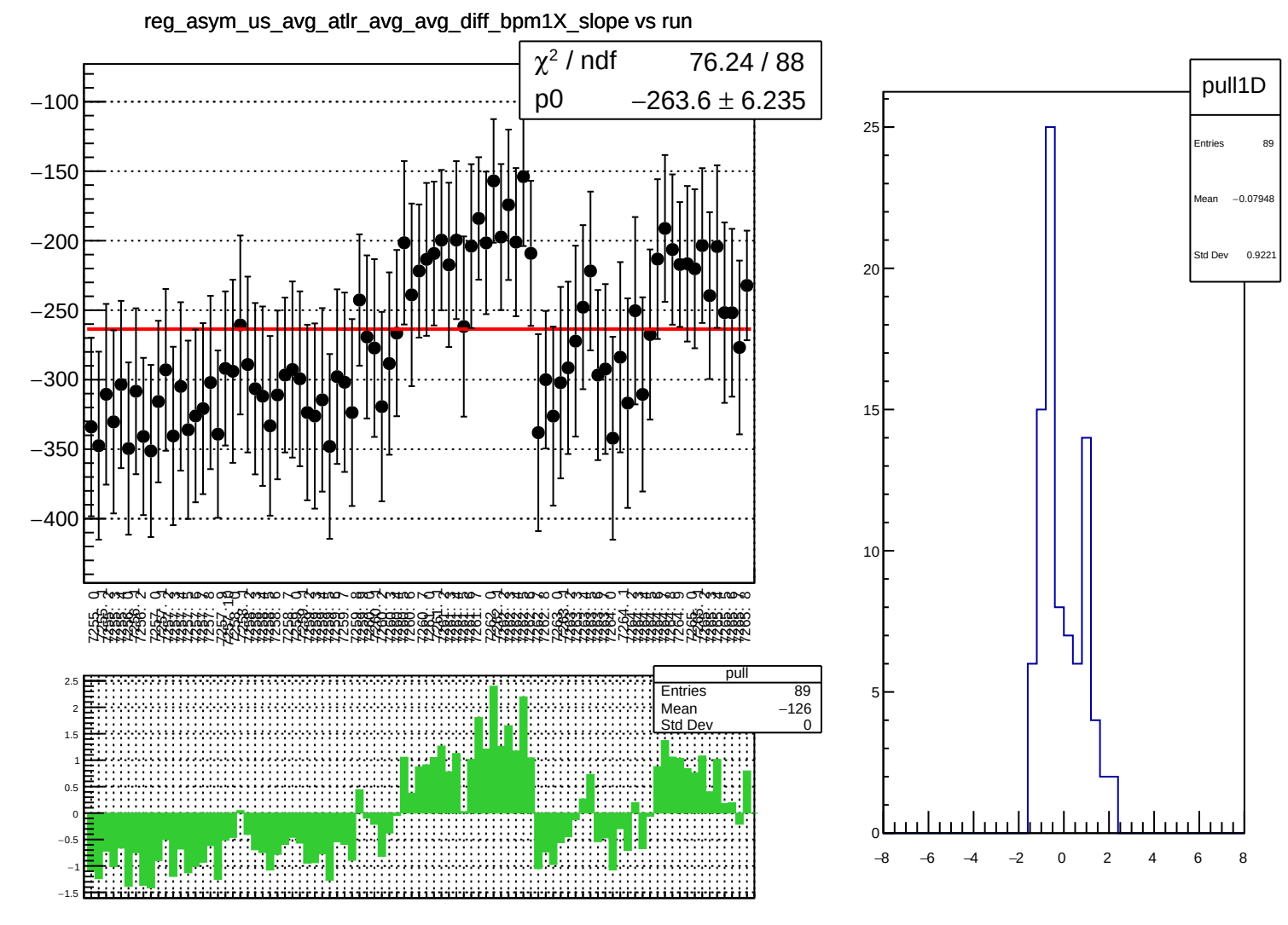

pull1D
Entries 89
Mean 0.07318
Std Dev 0.8377

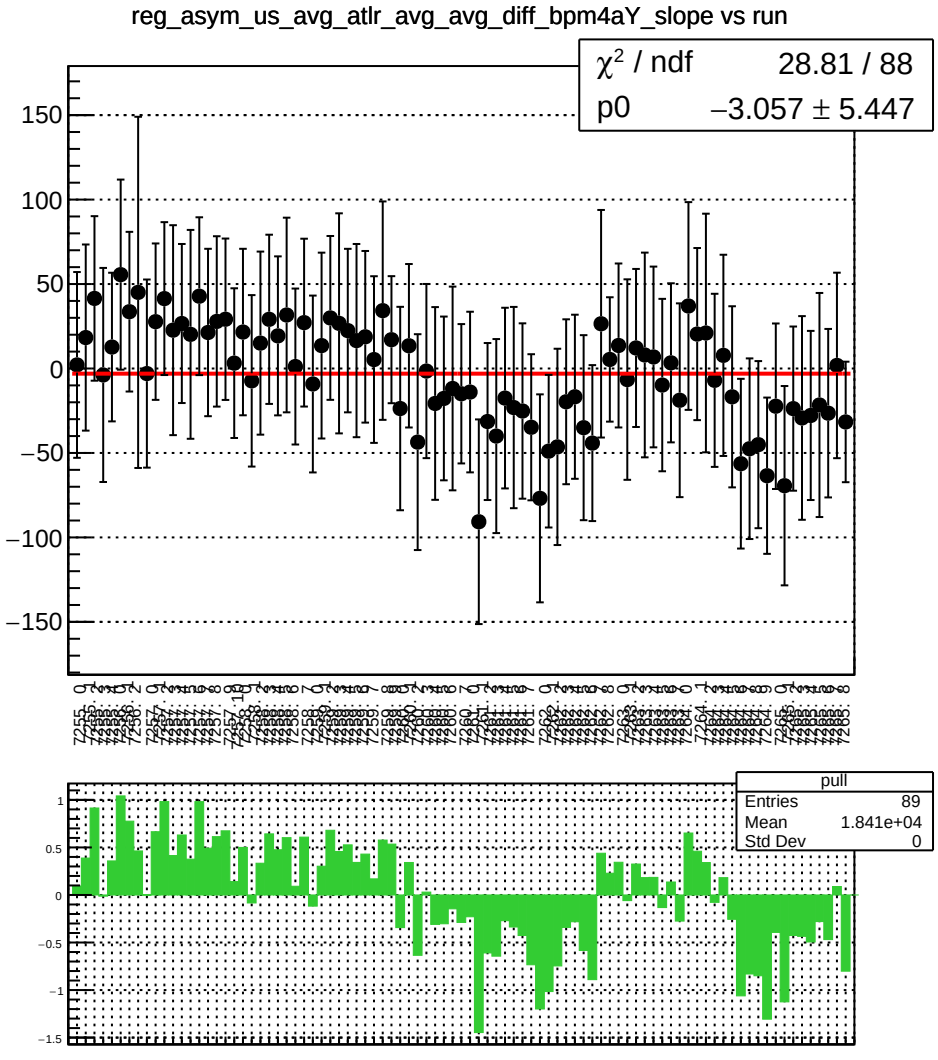

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.12 / 88
p0 11.11 ± 6.571
pull
Entries 89
Mean −4335
Std Dev 0
pull1D
Entries 89
Mean −0.001986
Std Dev 0.5313

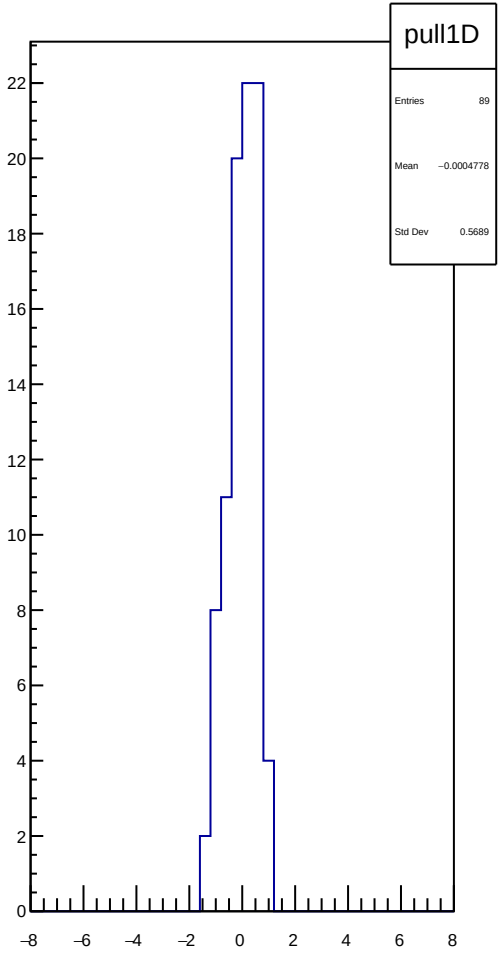

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.05 / 88
p0 −364.6 ± 8.146
pull
Entries 89
Mean −127.4
Std Dev 0
pull1D
Entries 89
Mean −0.0773
Std Dev 0.8382

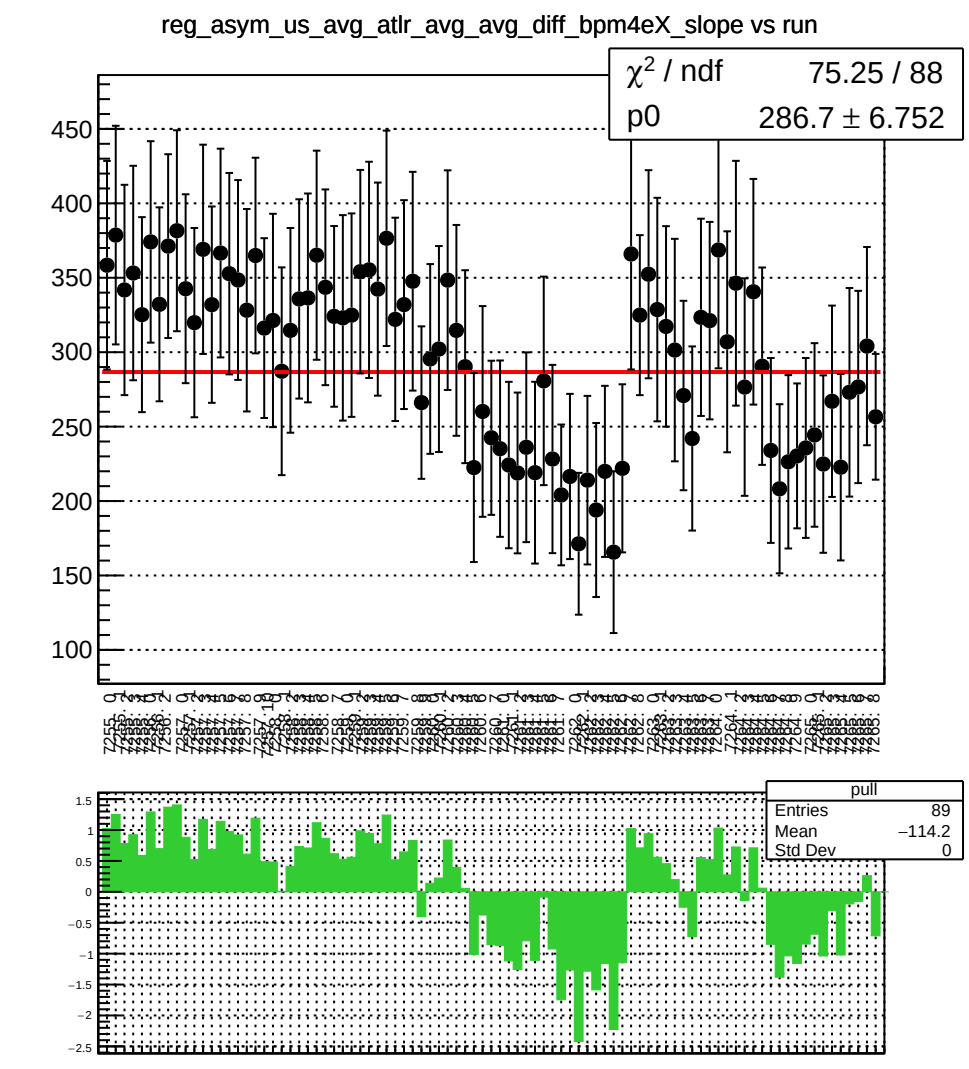

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.41 / 88
p0 −123.4 ± 6.909
pull
Entries 89
Mean −1578
Std Dev 0
pull1D
Entries 89
Mean 0.005611
Std Dev 0.565

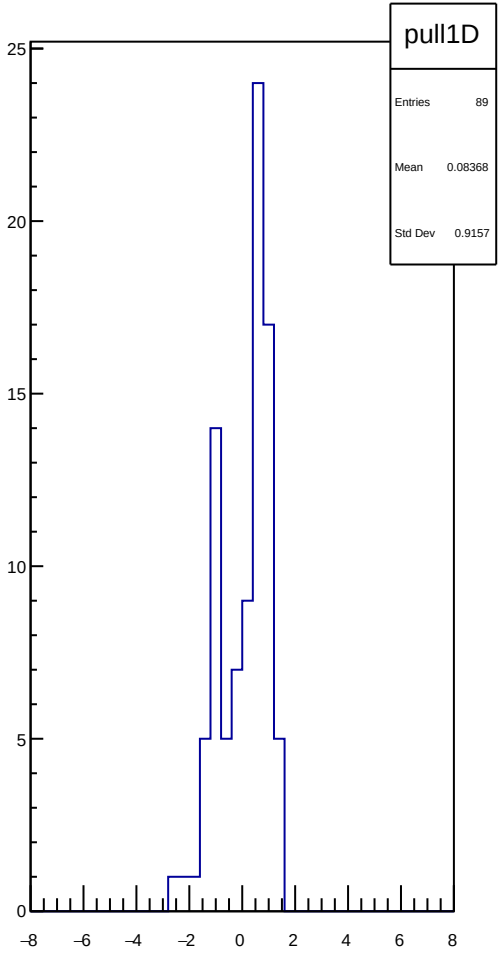

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 106.7 / 88
p0 204.1 ± 0.2861
pull
Entries 89
Mean −5787
Std Dev 0
pull1D
Entries 89
Mean 0.003915
Std Dev 1.095

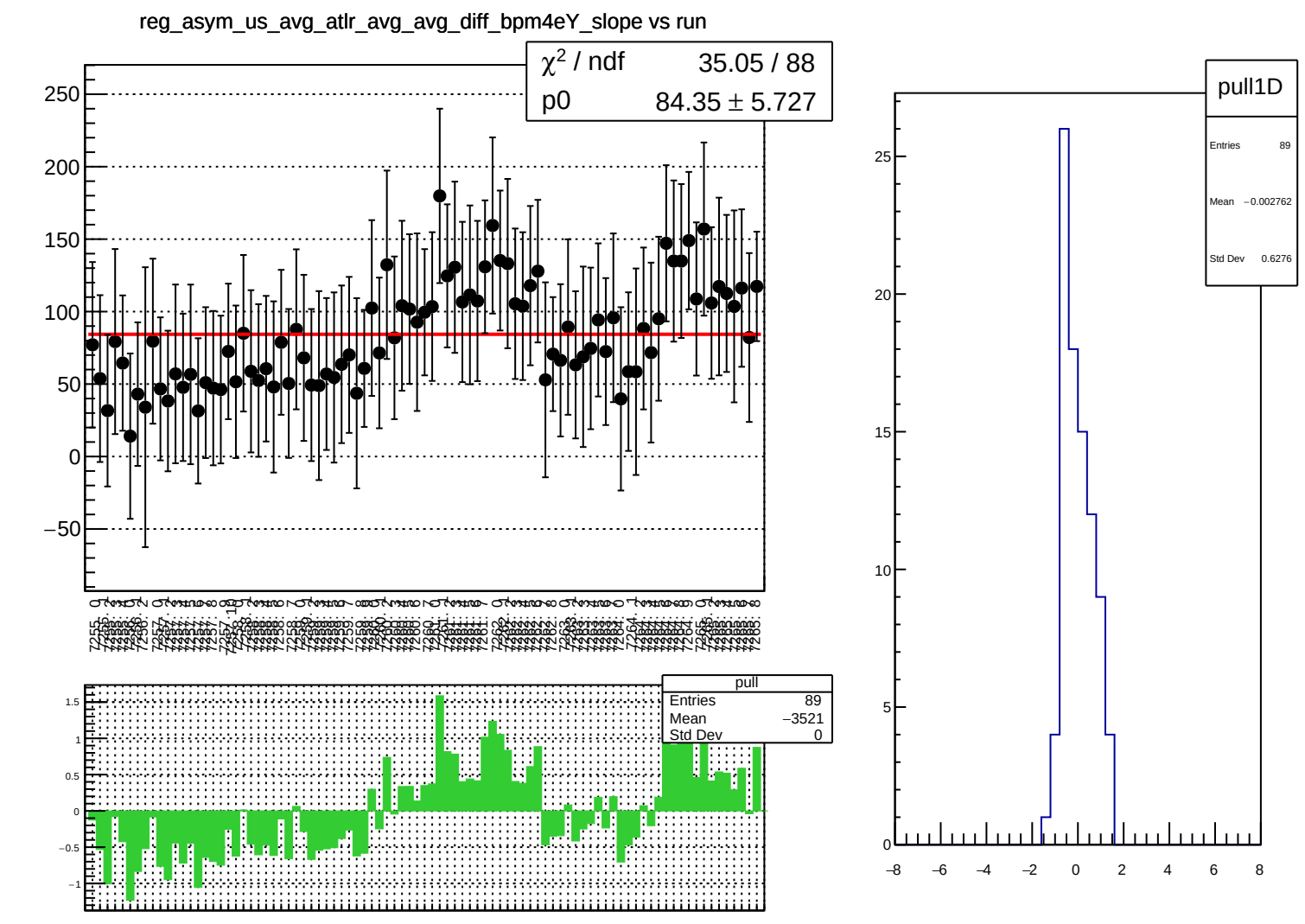

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 76.24 / 88
p0 −263.6 ± 6.235
pull
Entries 89
Mean −126
Std Dev 0
pull1D
Entries 89
Mean −0.07948
Std Dev 0.9221

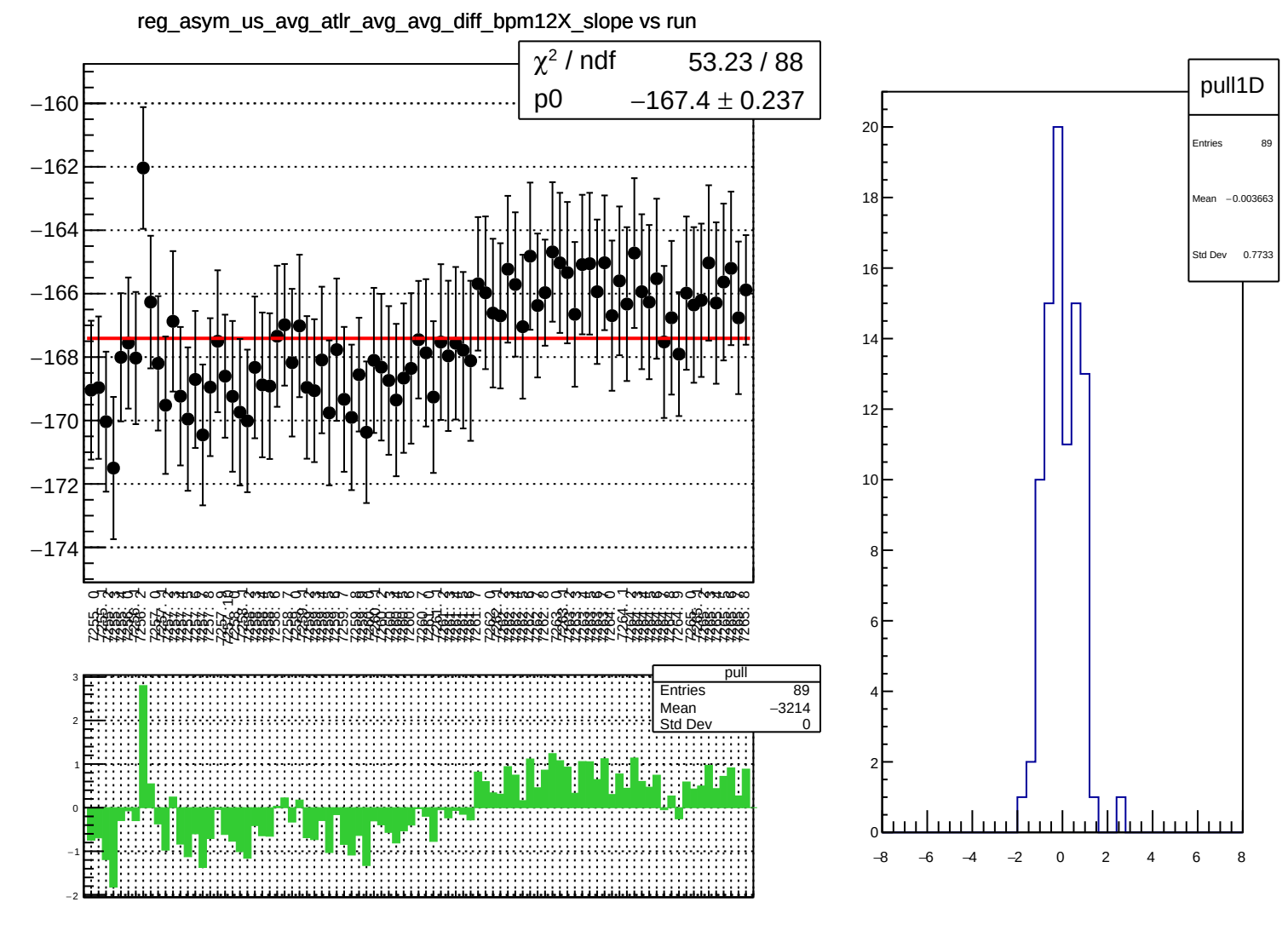

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.81 / 88
p0 −3.057 ± 5.447
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 1.841e+04
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

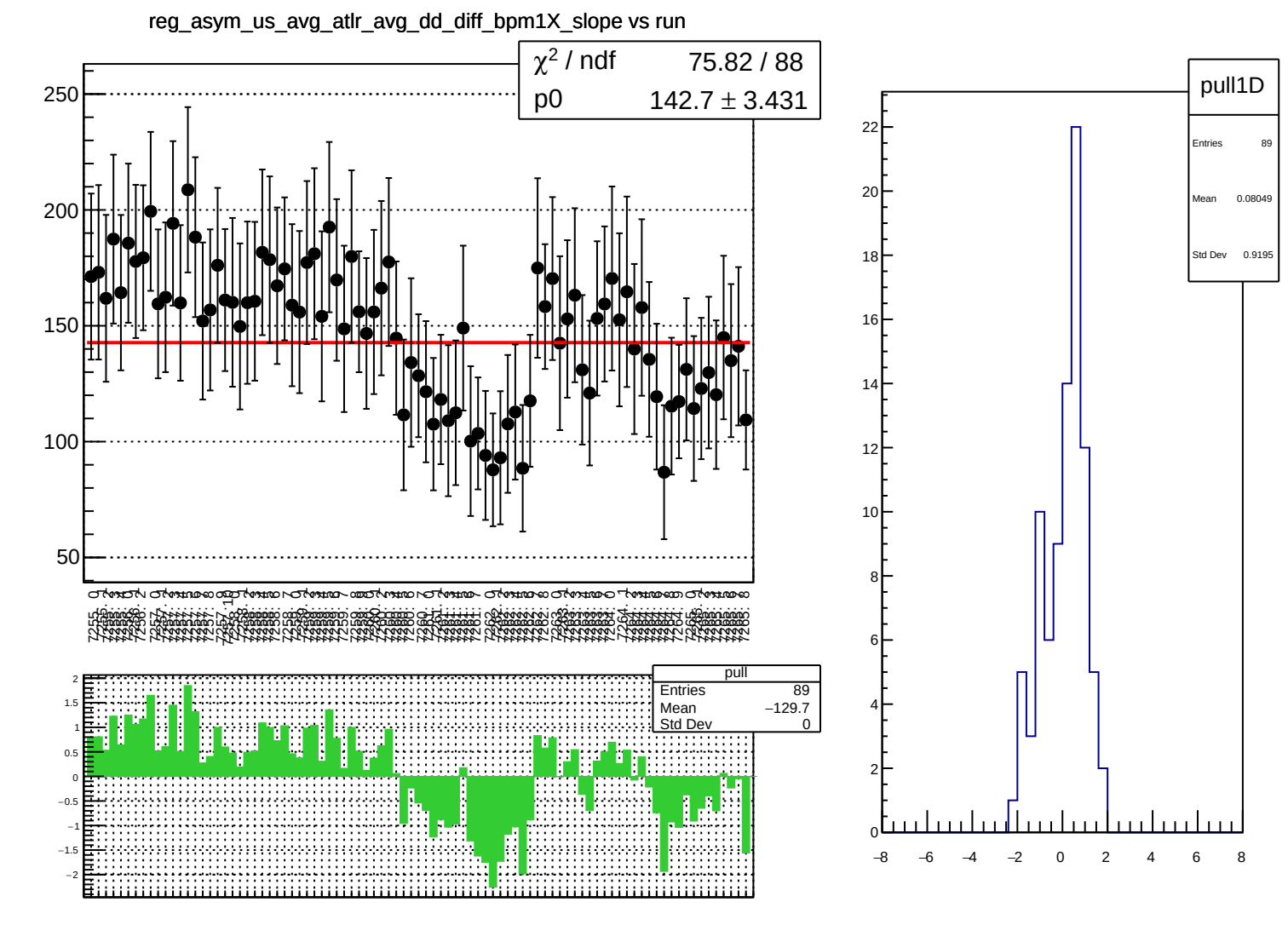

pull1D
Entries 89
Mean −0.0004778
Std Dev 0.5689
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

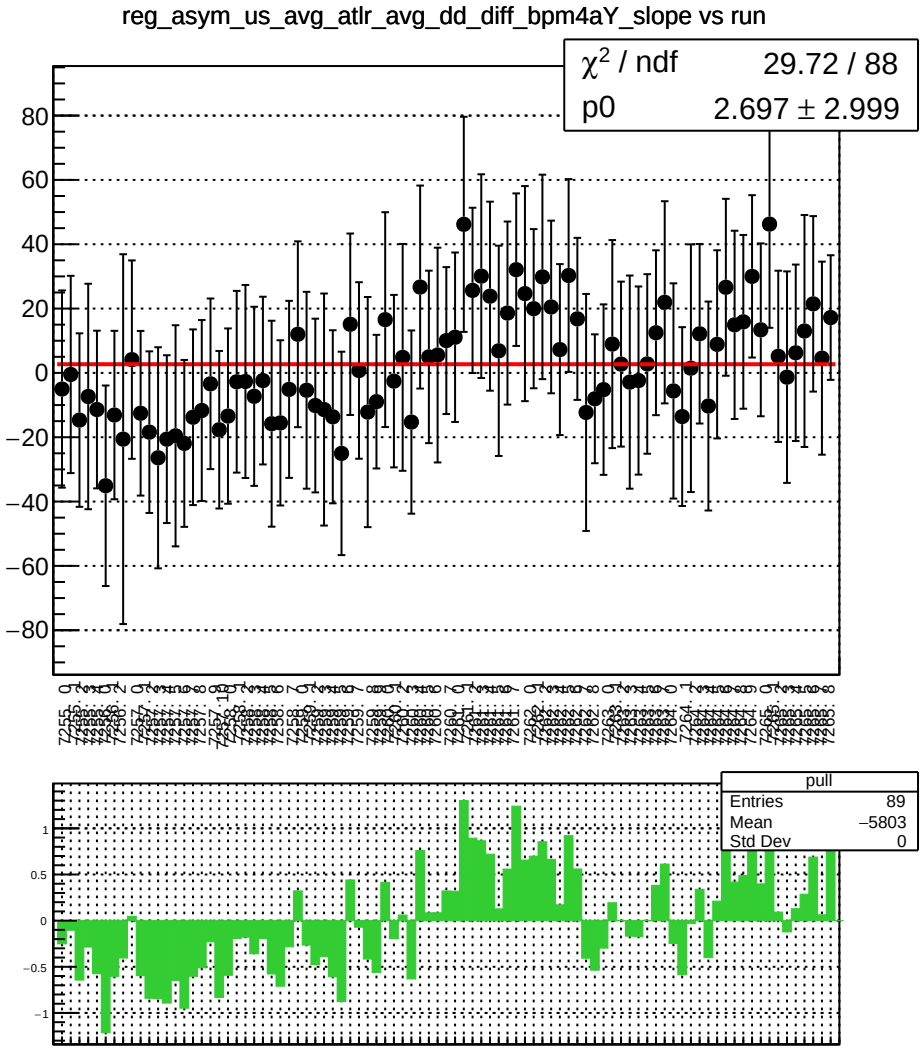

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 75.25 / 88
p0 286.7 ± 6.752
pull
Entries 89
Mean −114.2
Std Dev 0

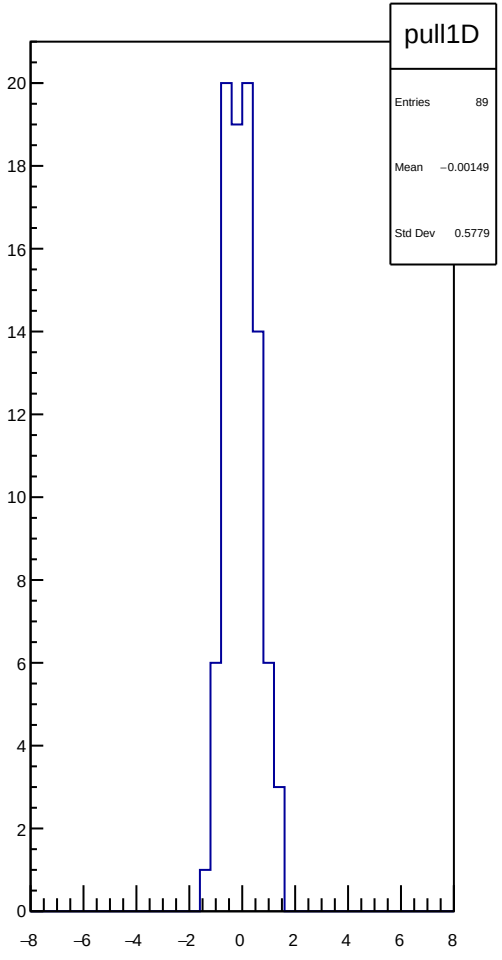

pull1D
Entries 89
Mean 0.08368
Std Dev 0.9157

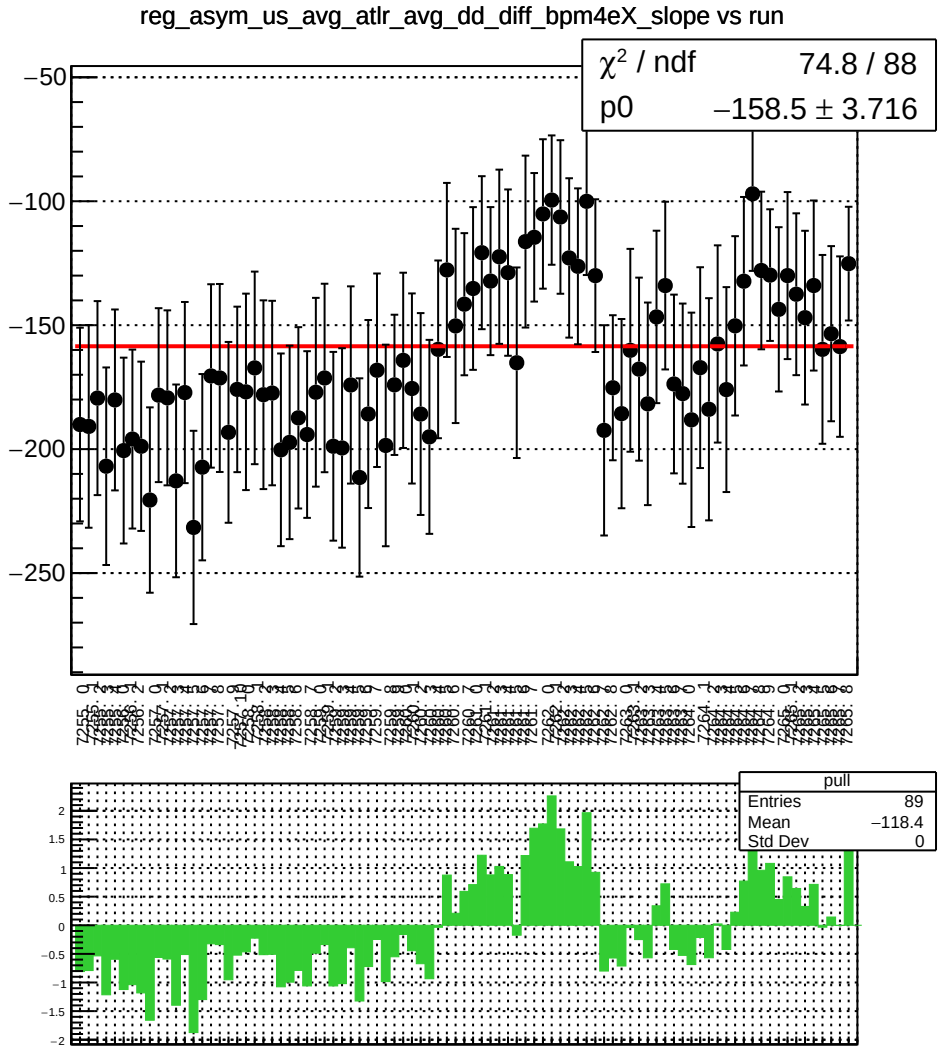

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.05 / 88
p0 84.35 ± 5.727
pull
Entries 89
Mean −3521
Std Dev 0
pull1D
Entries 89
Mean −0.002762
Std Dev 0.6276

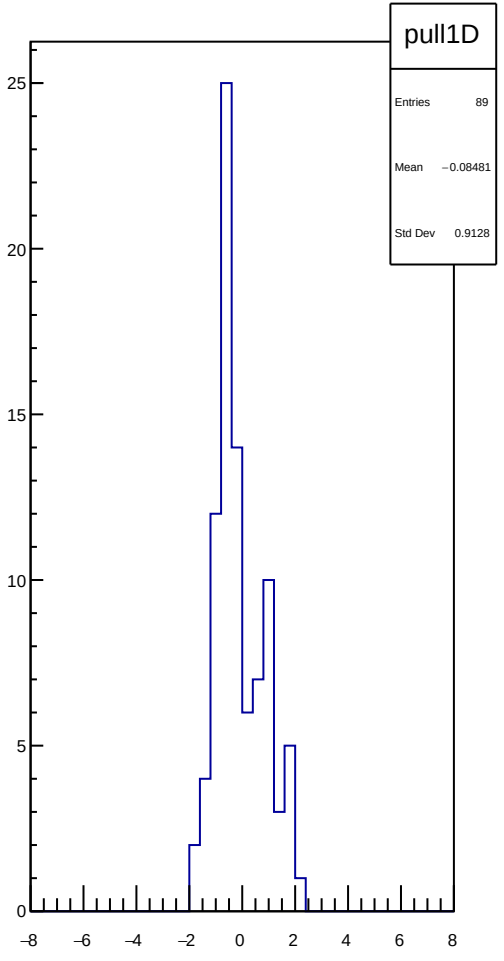

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 53.23 / 88
p0 −167.4 ± 0.237
pull
Entries 89
Mean −3214
Std Dev 0
pull1D
Entries 89
Mean −0.003663
Std Dev 0.7733

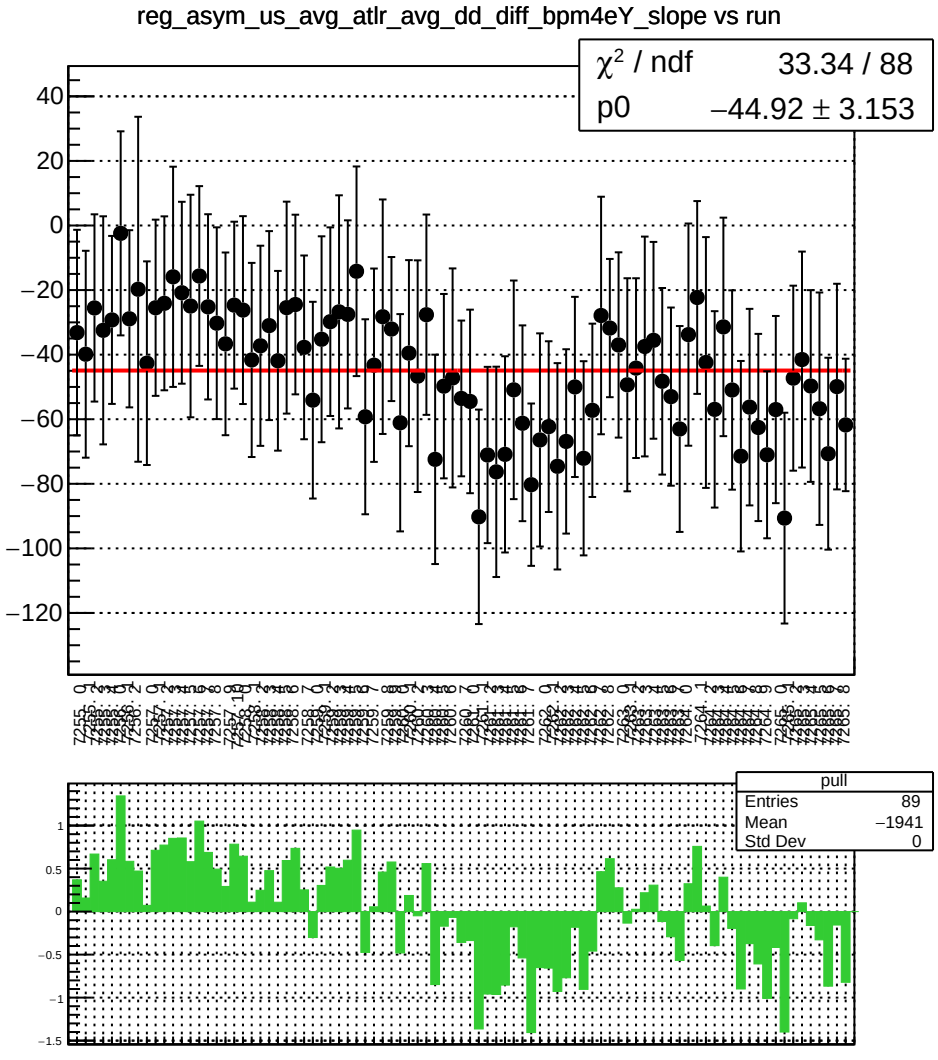

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 75.82 / 88
p0 142.7 ± 3.431
250
200
150
100
50
pull
Entries 89
Mean −129.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.08049
Std Dev 0.9195
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

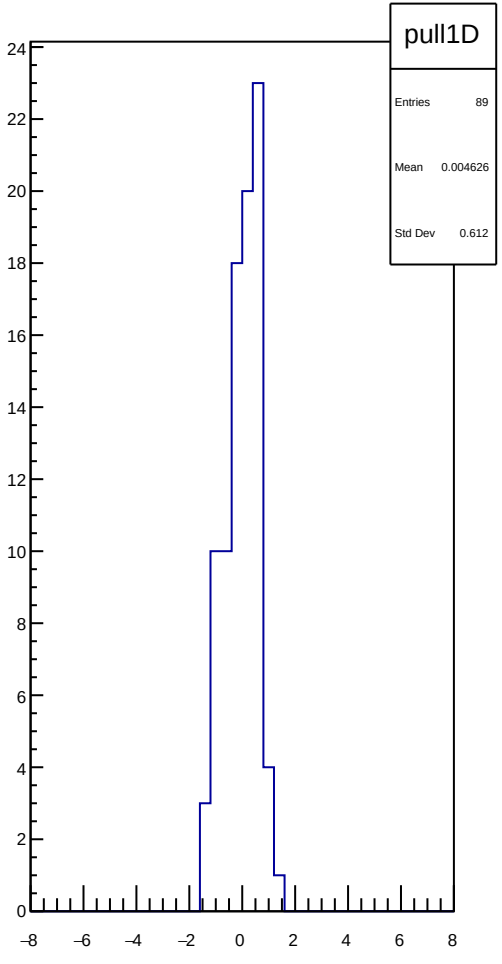

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.72 / 88
p0 2.697 ± 2.999
pull
Entries 89
Mean −5803
Std Dev 0

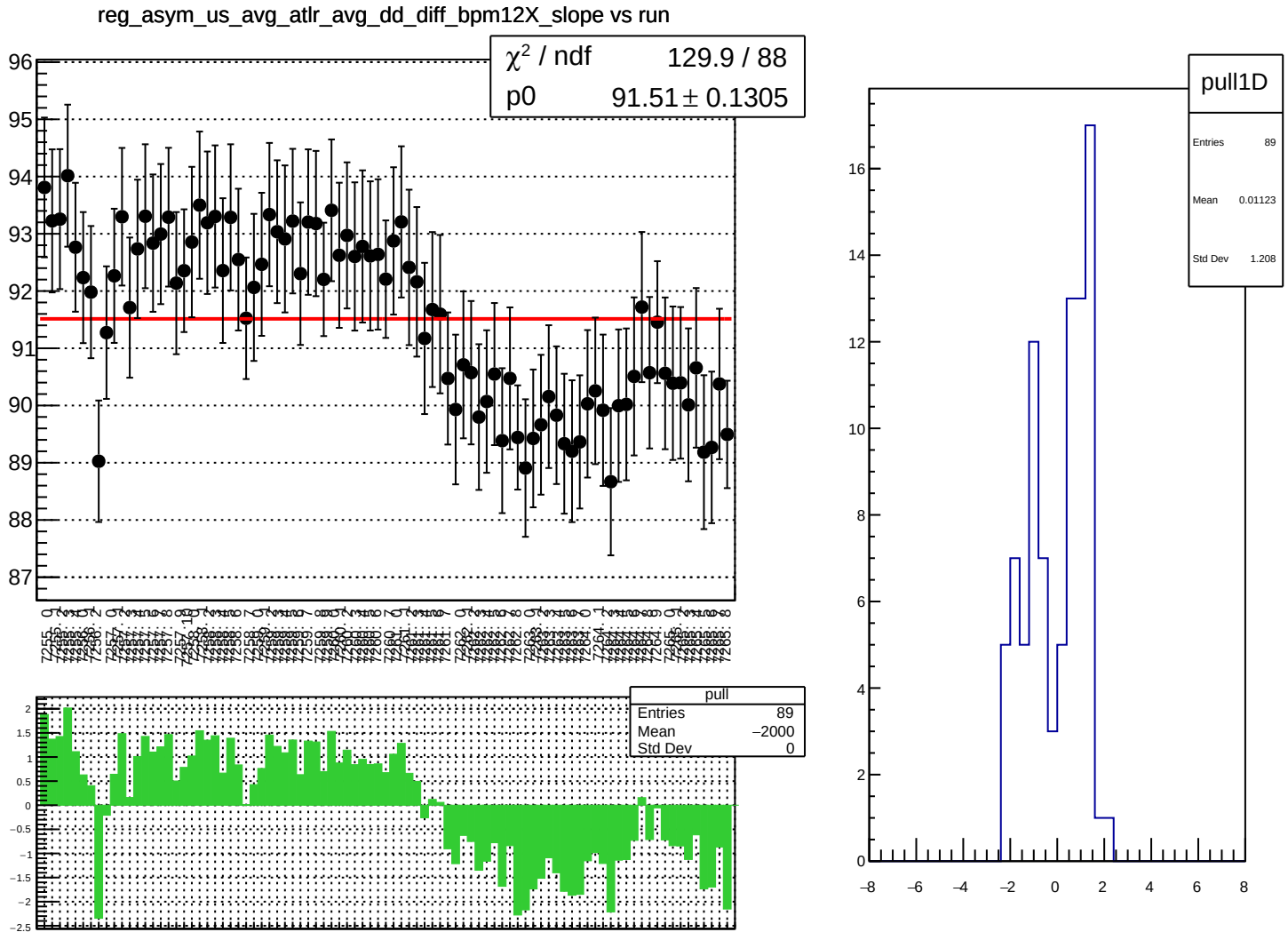

pull1D
Entries 89
Mean −0.00149
Std Dev 0.5779

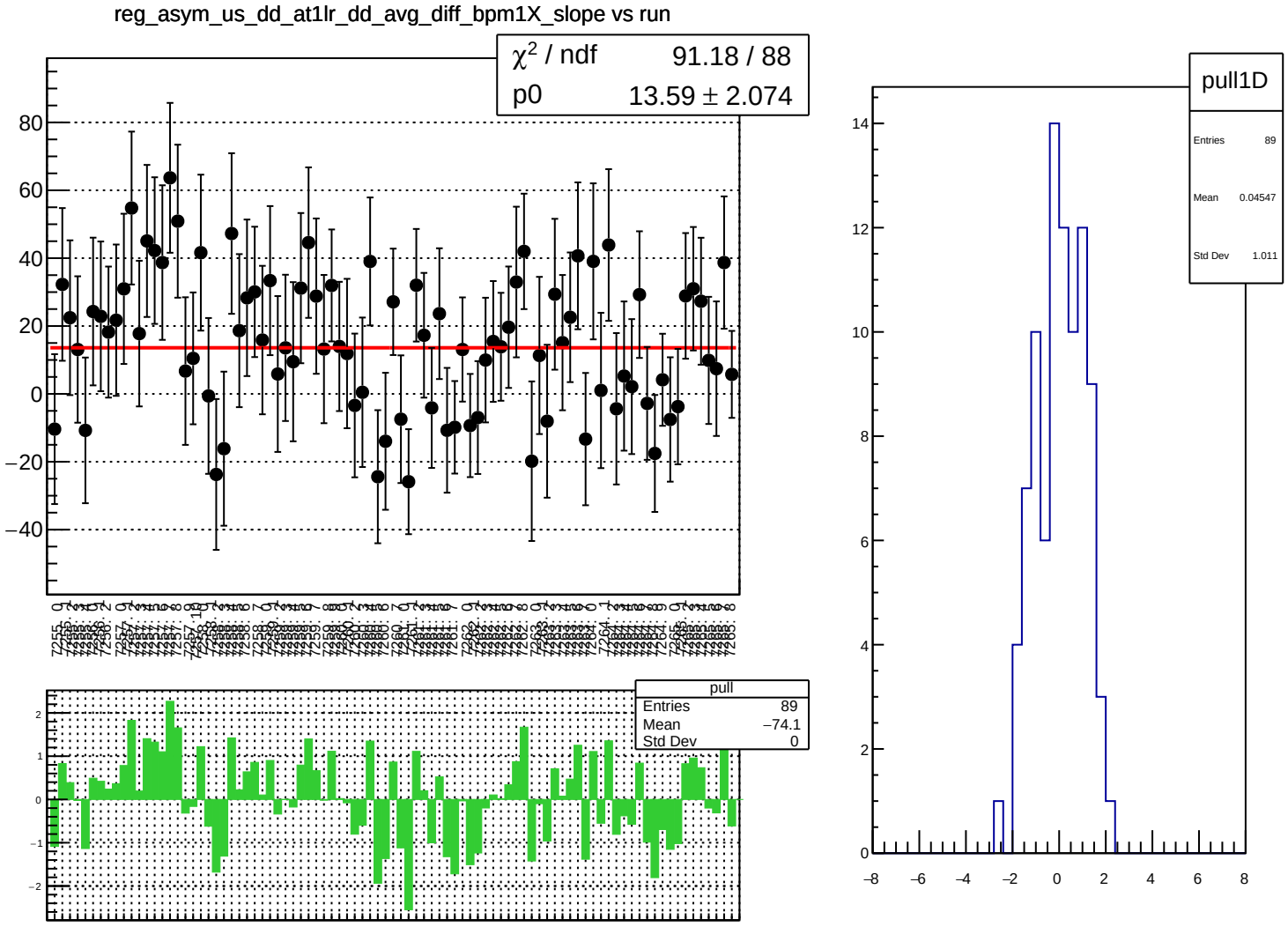

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.8 / 88
p0 −158.5 ± 3.716
pull
Entries 89
Mean −118.4
Std Dev 0

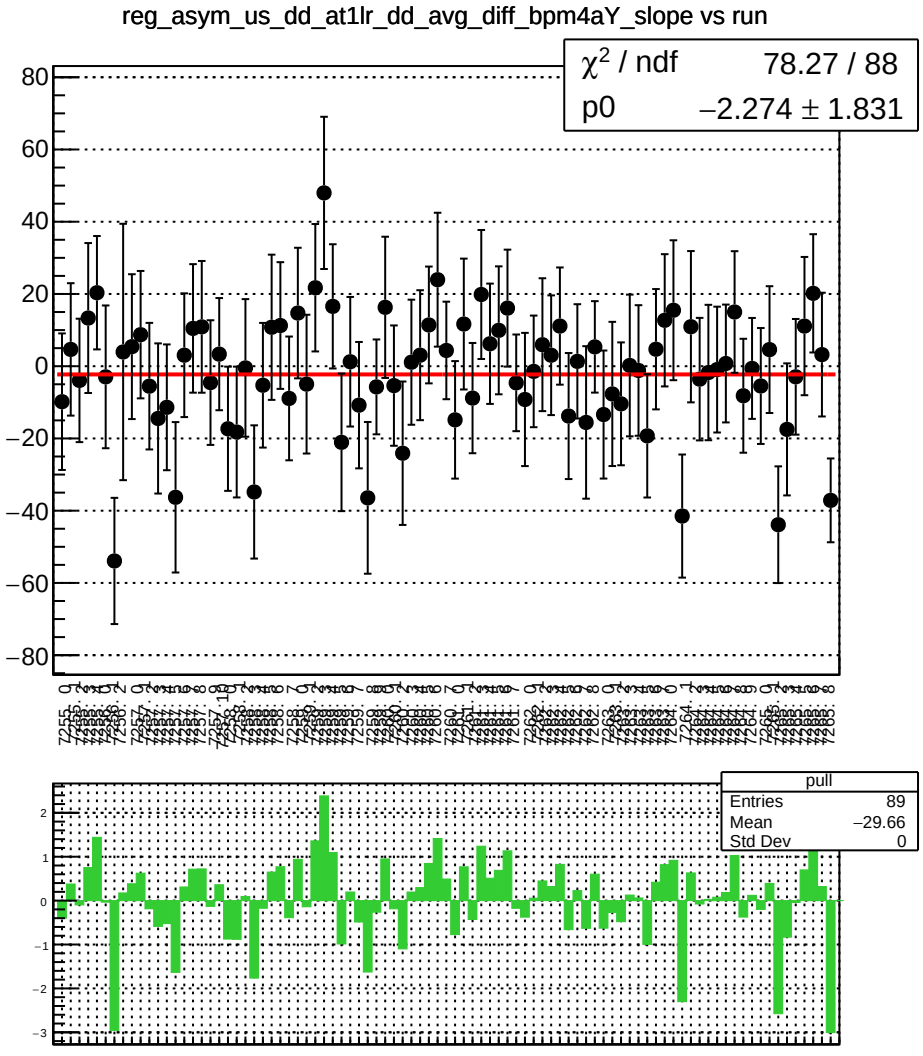

pull1D
Entries 89
Mean −0.08481
Std Dev 0.9128

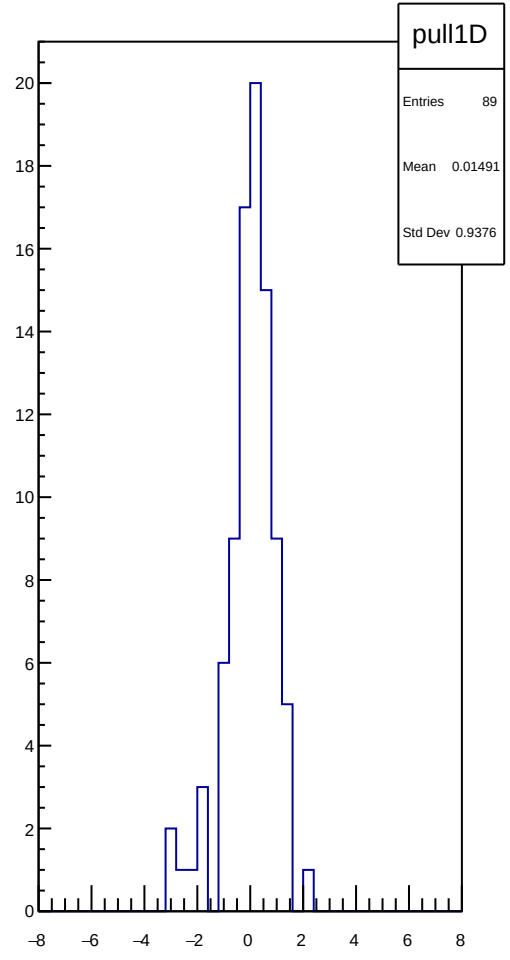

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.34 / 88
p0 −44.92 ± 3.153
pull
Entries 89
Mean −1941
Std Dev 0

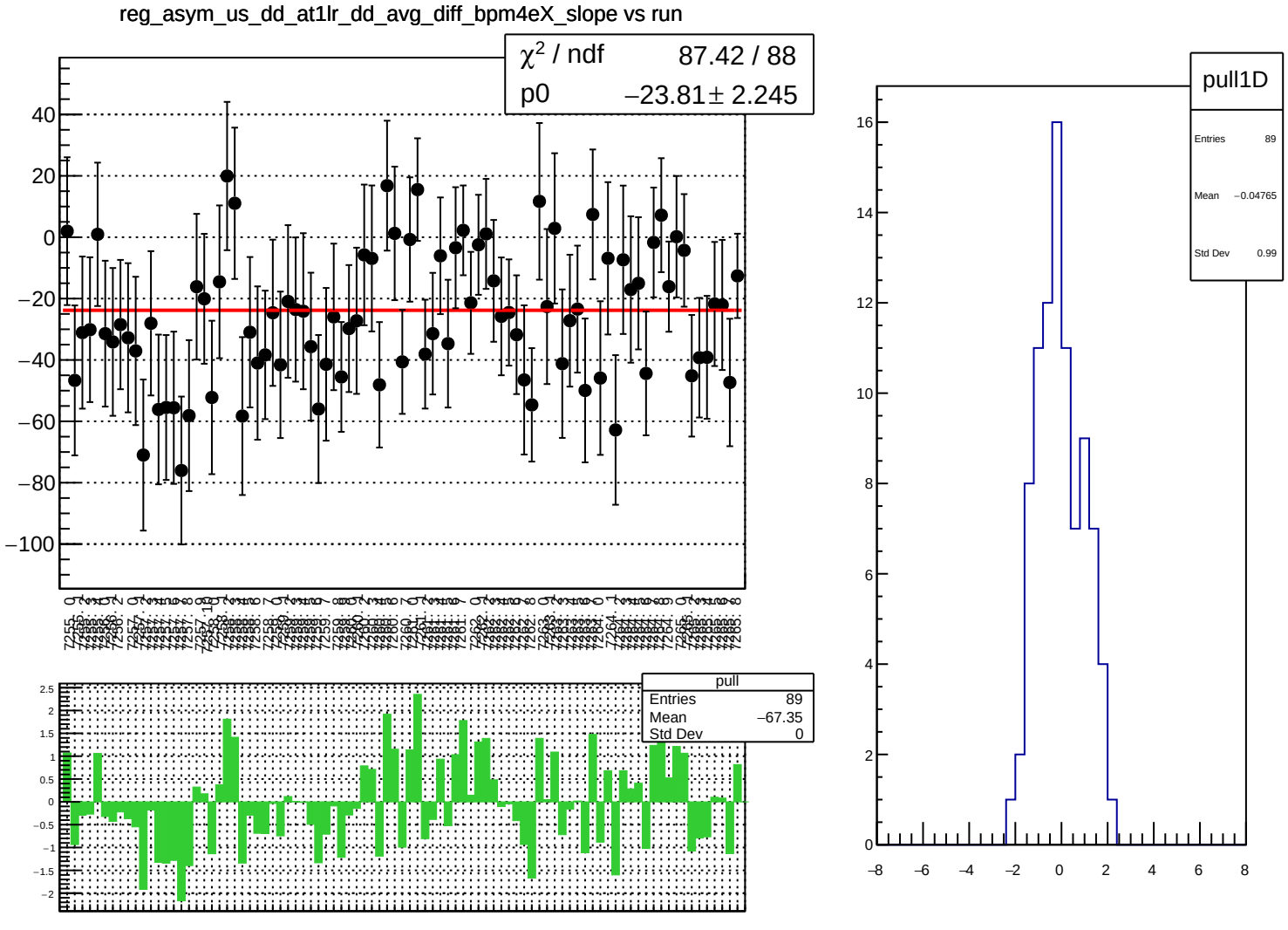

pull1D
Entries 89
Mean 0.004626
Std Dev 0.612

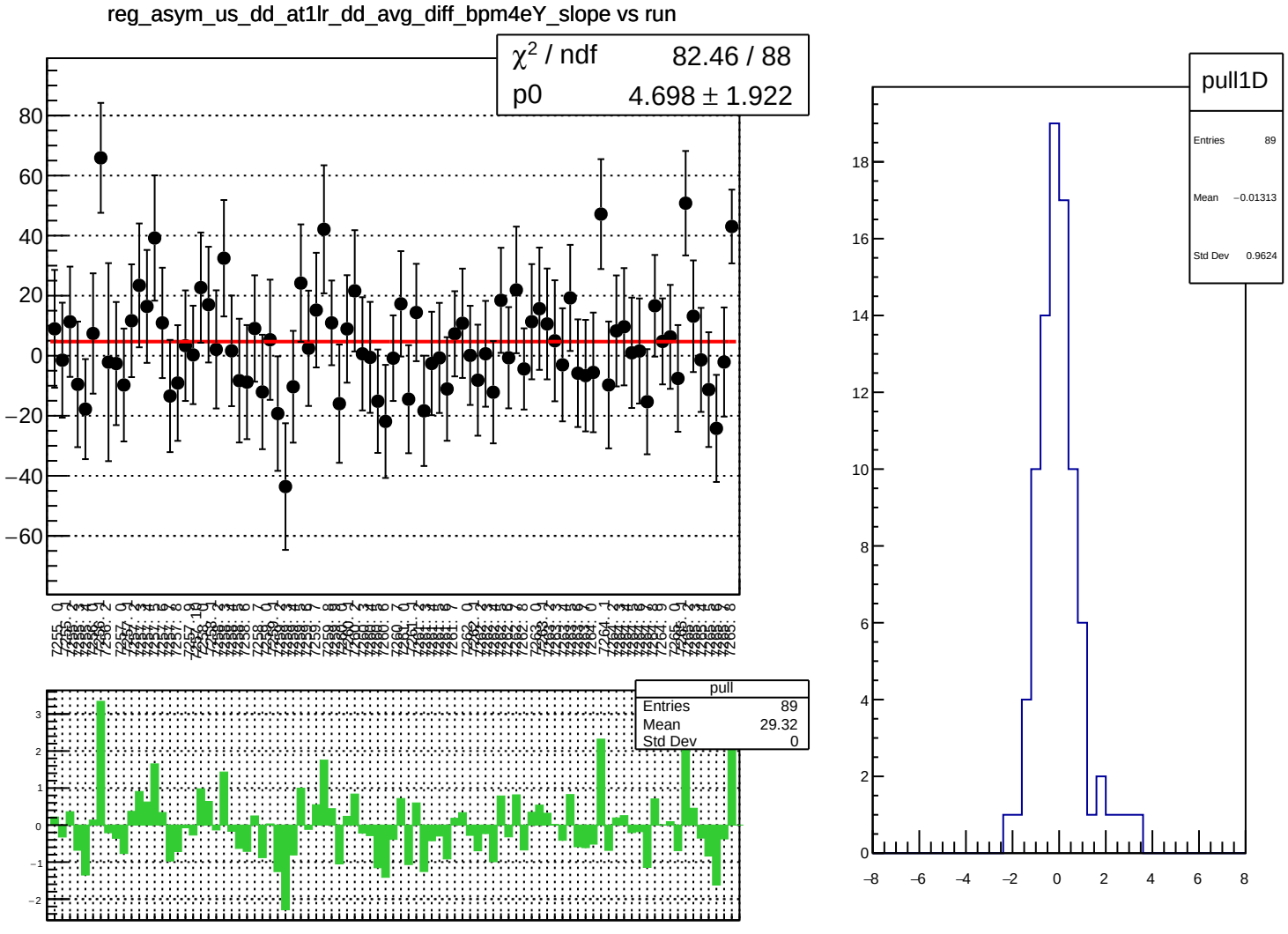

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 129.9 / 88
p0 91.51 ± 0.1305
pull
Entries 89
Mean −2000
Std Dev 0
pull1D
Entries 89
Mean 0.01123
Std Dev 1.208

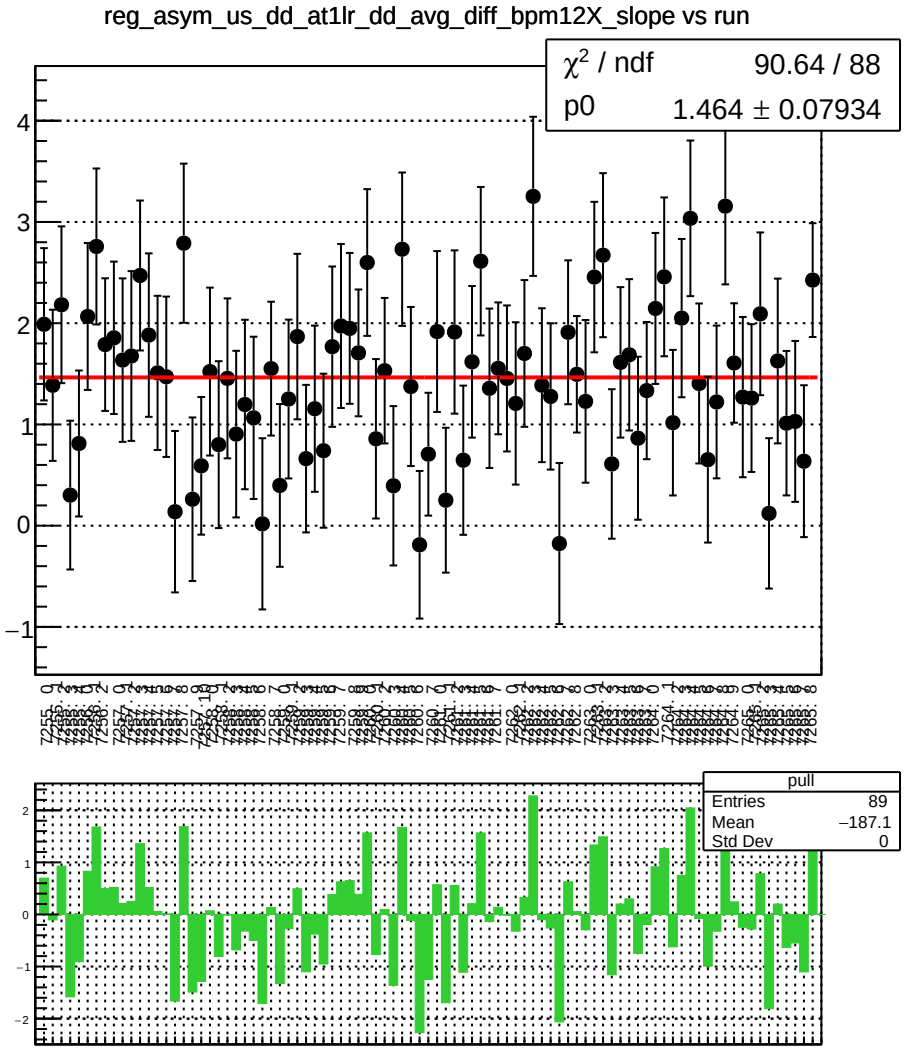

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 91.18 / 88
p0 13.59 ± 2.074
pull
Entries 89
Mean −74.1
Std Dev 0
pull1D
Entries 89
Mean 0.04547
Std Dev 1.011

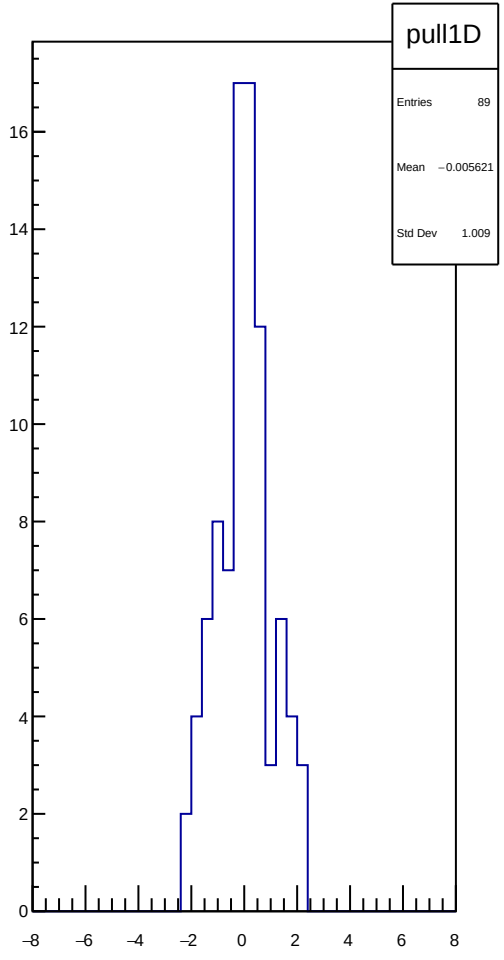

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 78.27 / 88
p0 −2.274 ± 1.831
pull
Entries 89
Mean −29.66
Std Dev 0

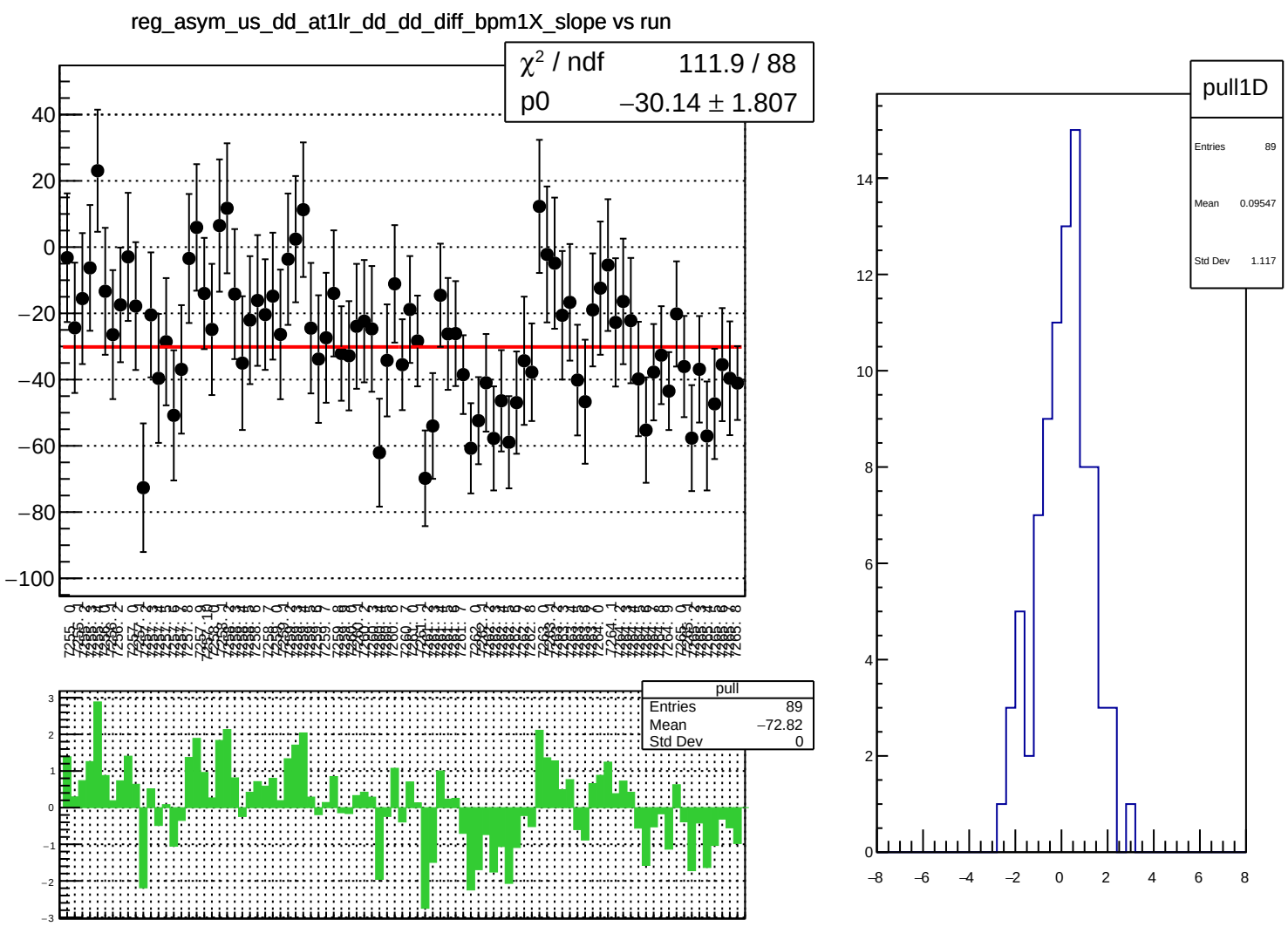

pull1D
Entries 89
Mean 0.01491
Std Dev 0.9376

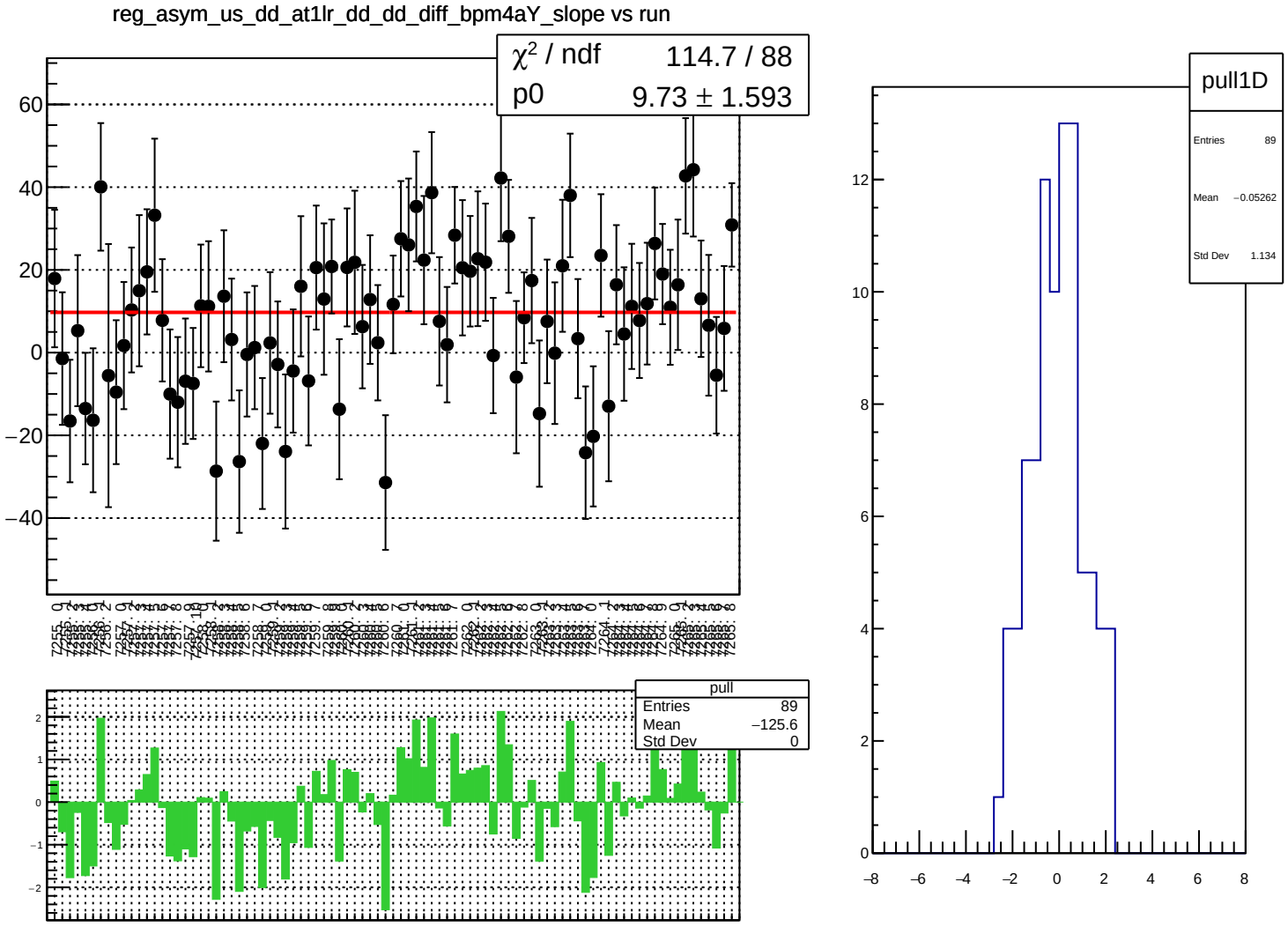

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 87.42 / 88
p0 −23.81 ± 2.245
pull
Entries 89
Mean −67.35
Std Dev 0
pull1D
Entries 89
Mean −0.04765
Std Dev 0.99

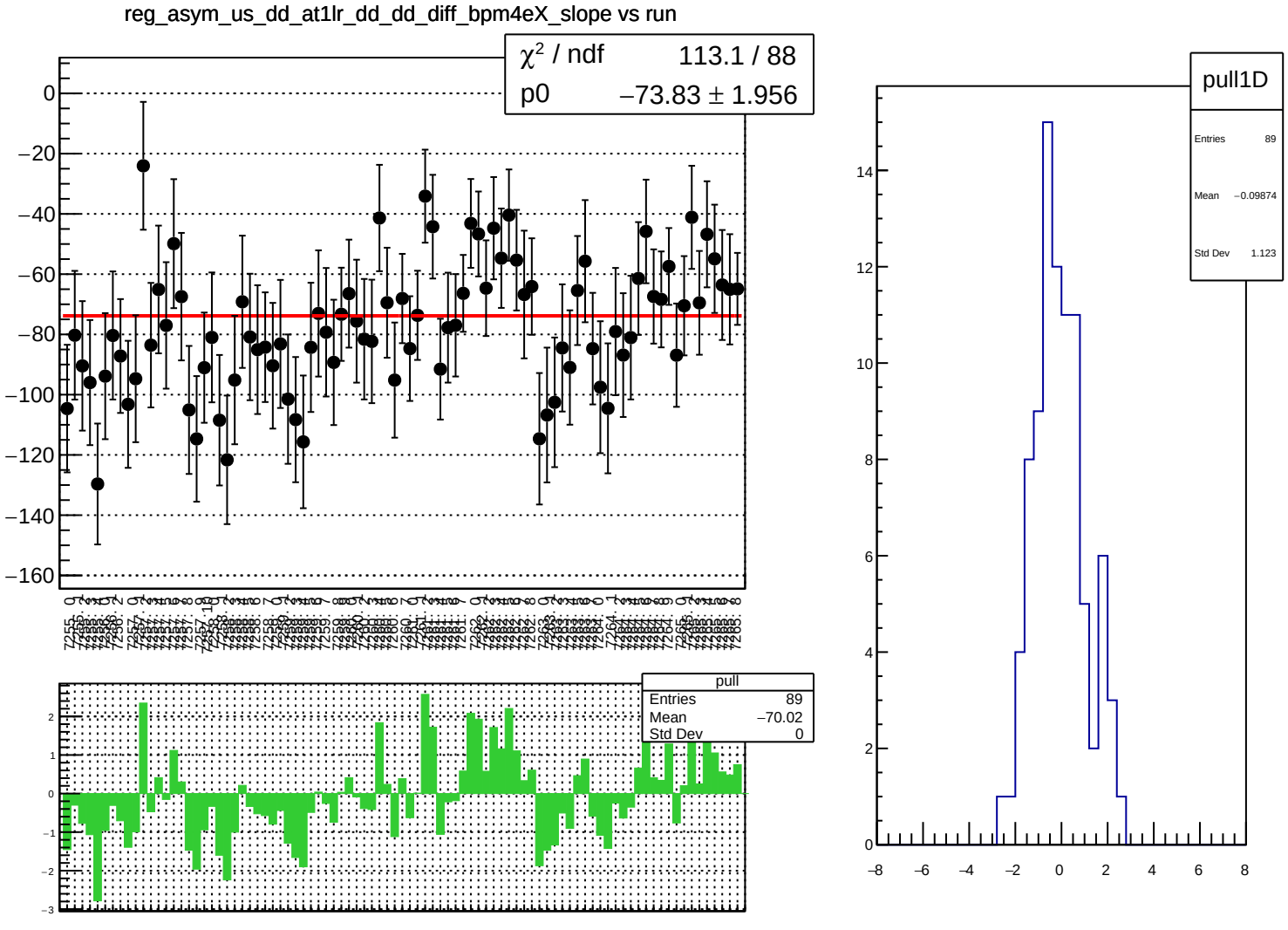

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 82.46 / 88
p0 4.698 ± 1.922
pull
Entries 89
Mean 29.32
Std Dev 0
pull1D
Entries 89
Mean −0.01313
Std Dev 0.9624

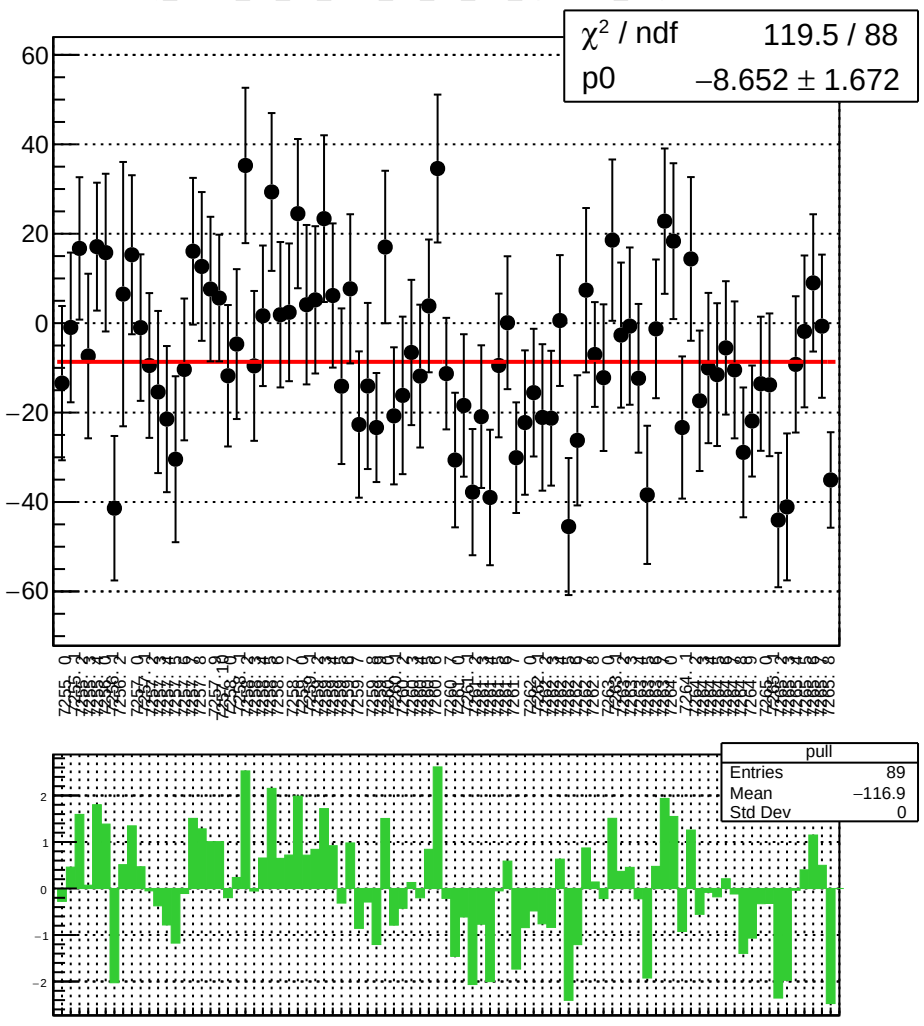

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 90.64 / 88
p0 1.464 ± 0.07934
pull
Entries 89
Mean −187.1
Std Dev 0

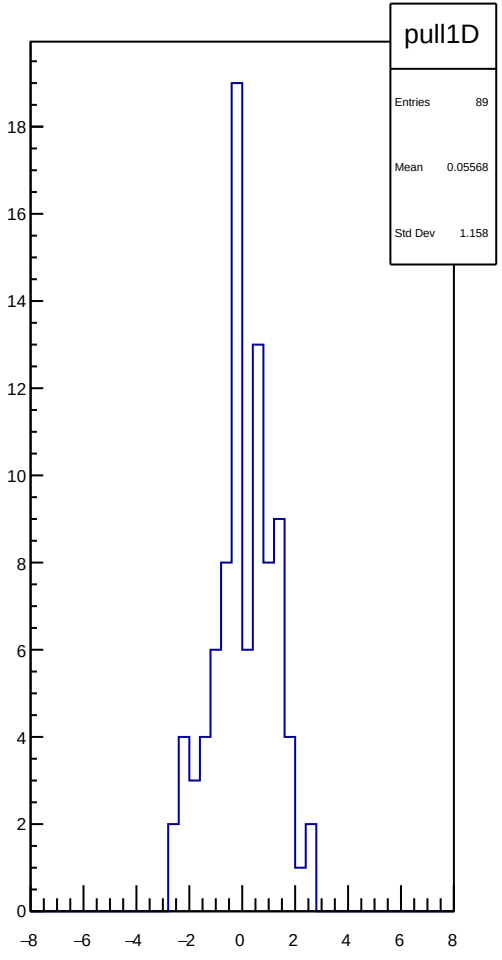

pull1D
Entries 89
Mean −0.005621
Std Dev 1.009

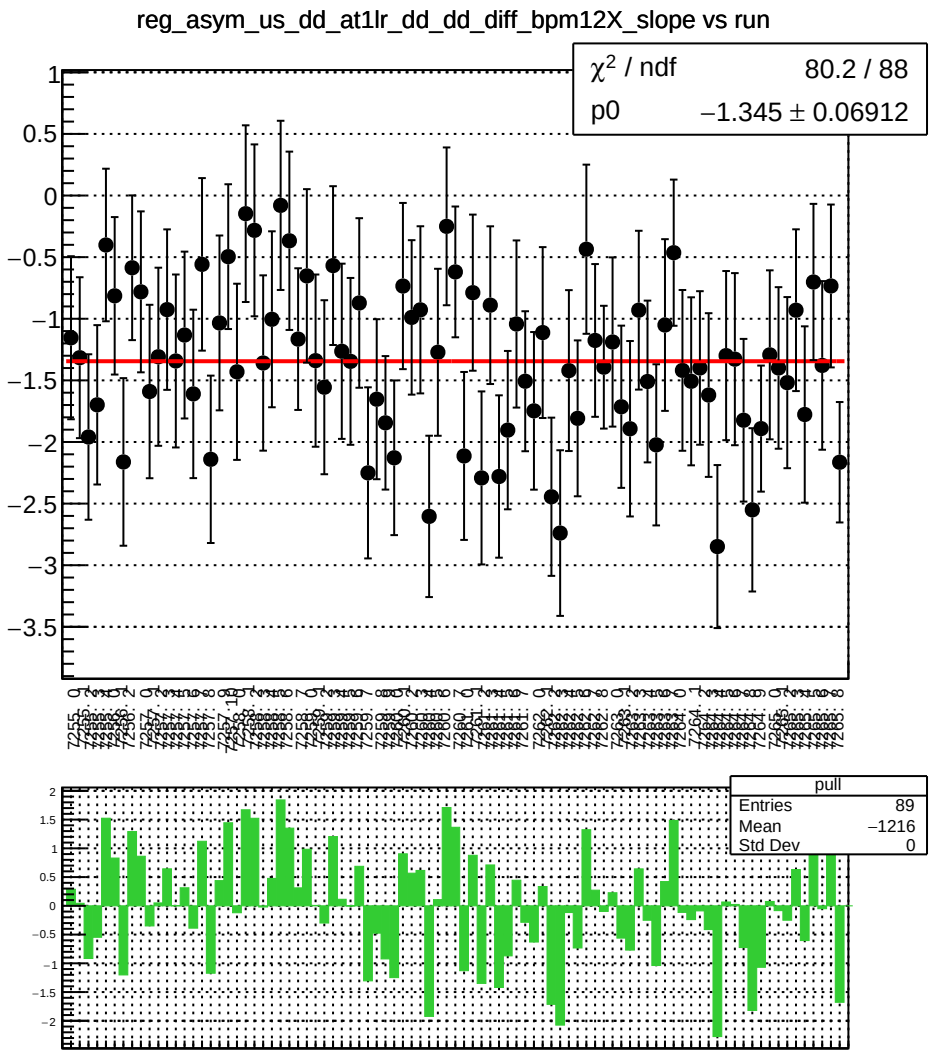

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 111.9 / 88
p0 −30.14 ± 1.807
pull
Entries 89
Mean −72.82
Std Dev 0
pull1D
Entries 89
Mean 0.09547
Std Dev 1.117

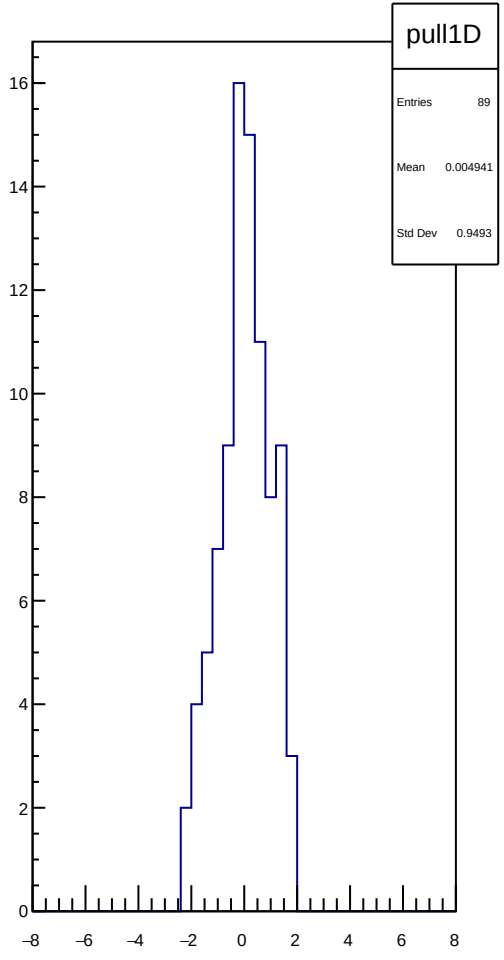

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 114.7 / 88
p0 9.73 ± 1.593
pull
Entries 89
Mean −125.6
Std Dev 0
pull1D
Entries 89
Mean −0.05262
Std Dev 1.134

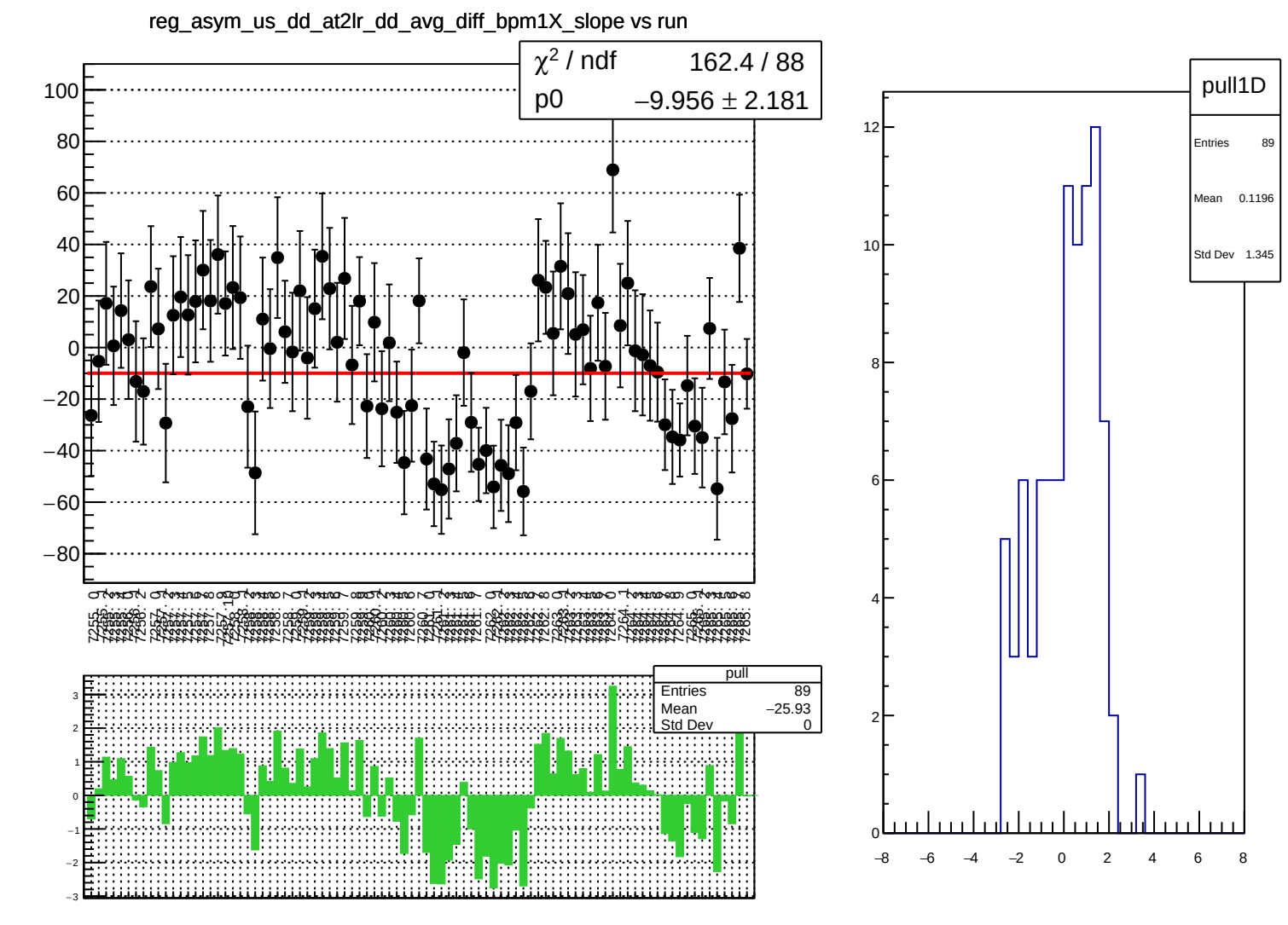

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 113.1 / 88
p0 −73.83 ± 1.956
pull
Entries 89
Mean −70.02
Std Dev 0
pull1D
Entries 89
Mean −0.09874
Std Dev 1.123

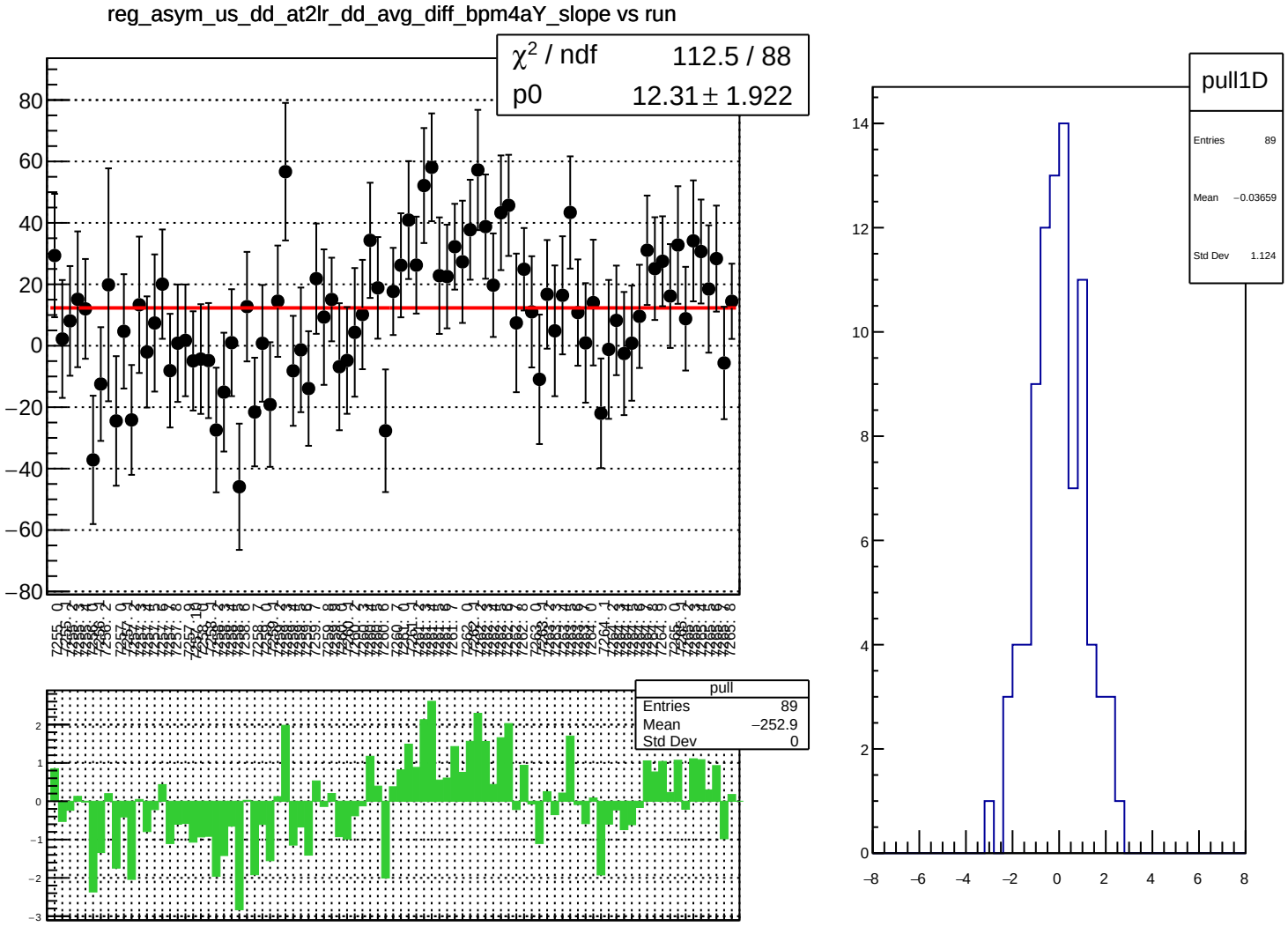

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 119.5 / 88
p0 −8.652 ± 1.672
pull
Entries 89
Mean −116.9
Std Dev 0

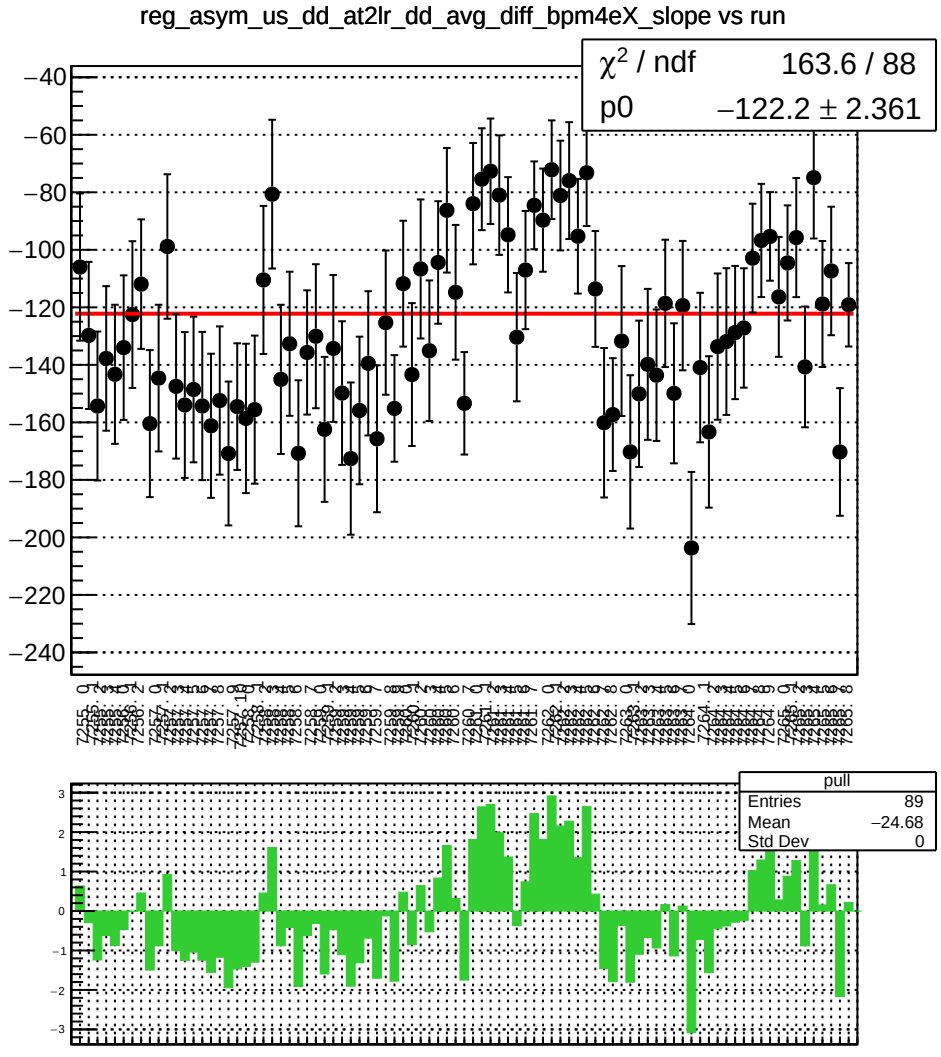

pull1D
Entries 89
Mean 0.05568
Std Dev 1.158

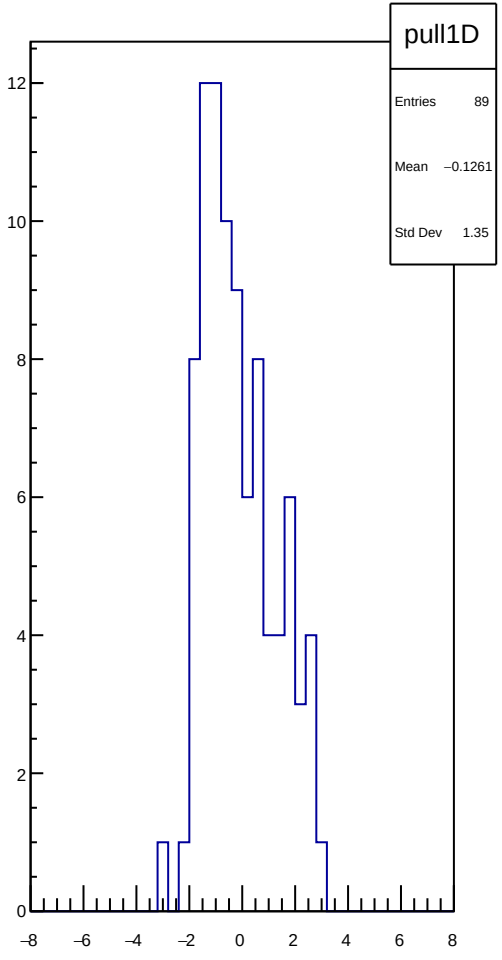

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 80.2 / 88
p0 −1.345 ± 0.06912
pull
Entries 89
Mean −1216
Std Dev 0

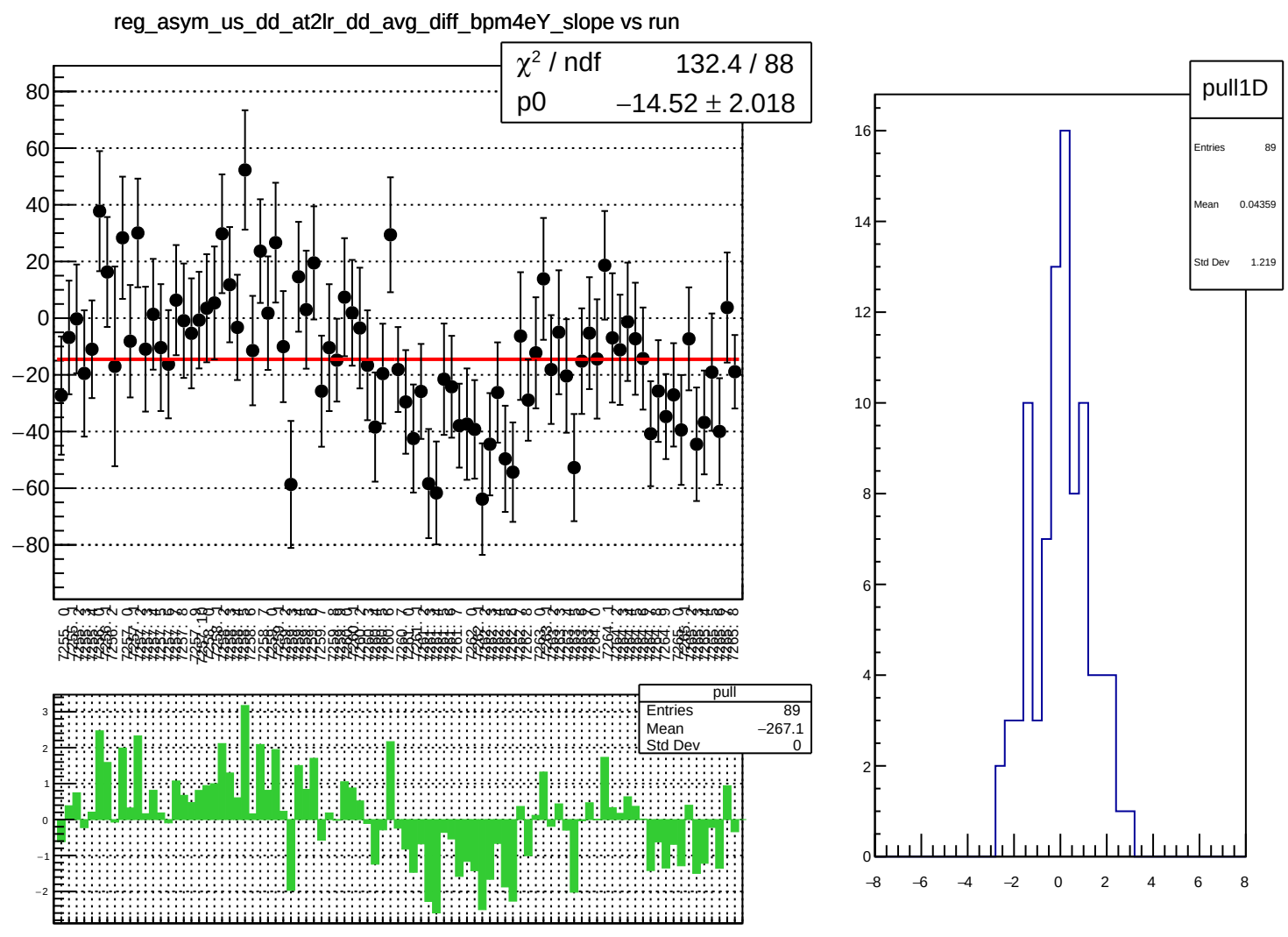

pull1D
Entries 89
Mean 0.004941
Std Dev 0.9493

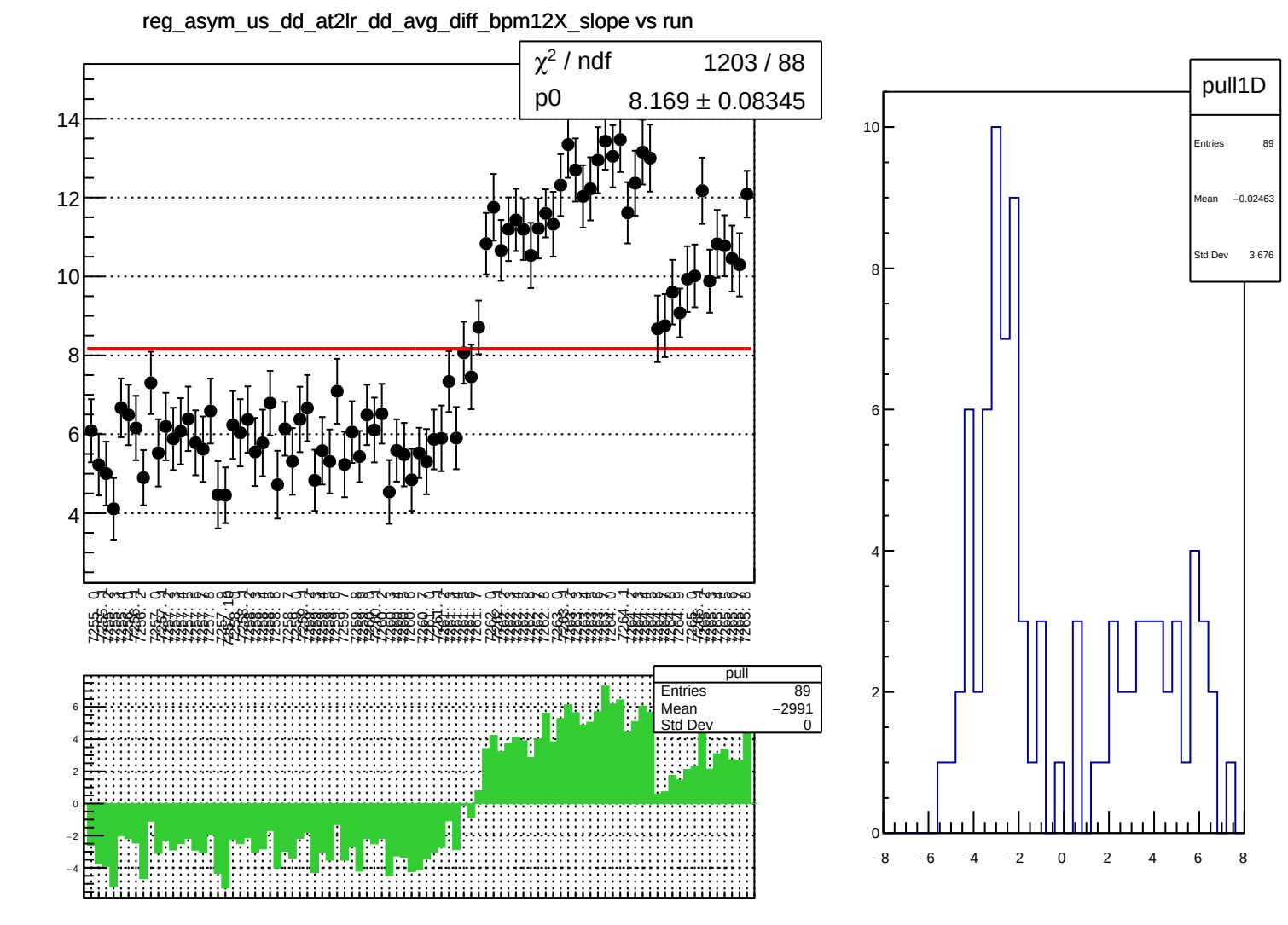

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 162.4 / 88
p0 −9.956 ± 2.181
pull
Entries 89
Mean −25.93
Std Dev 0
pull1D
Entries 89
Mean 0.1196
Std Dev 1.345

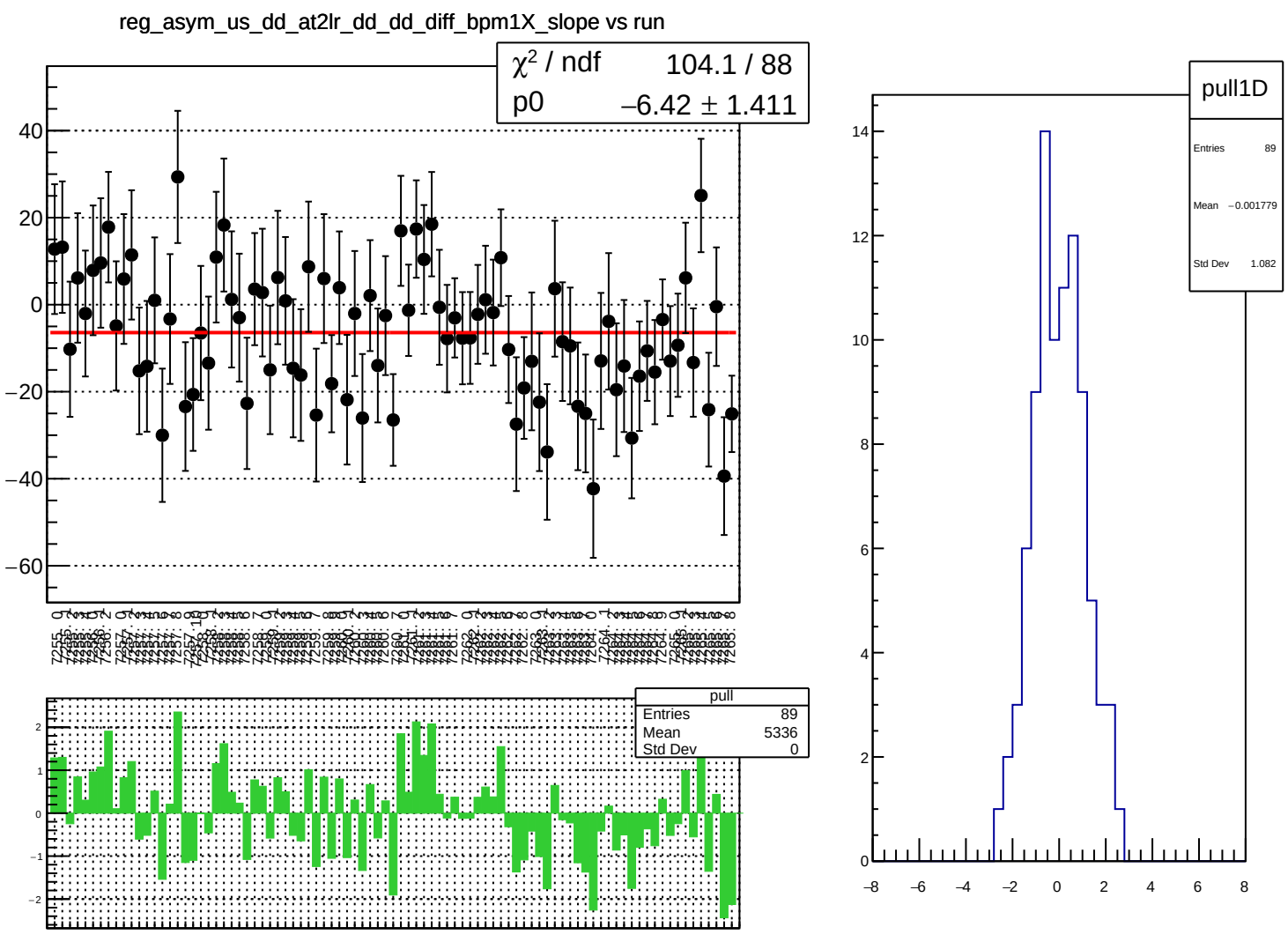

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 112.5 / 88
p0 12.31 ± 1.922
pull
Entries 89
Mean −252.9
Std Dev 0
pull1D
Entries 89
Mean −0.03659
Std Dev 1.124

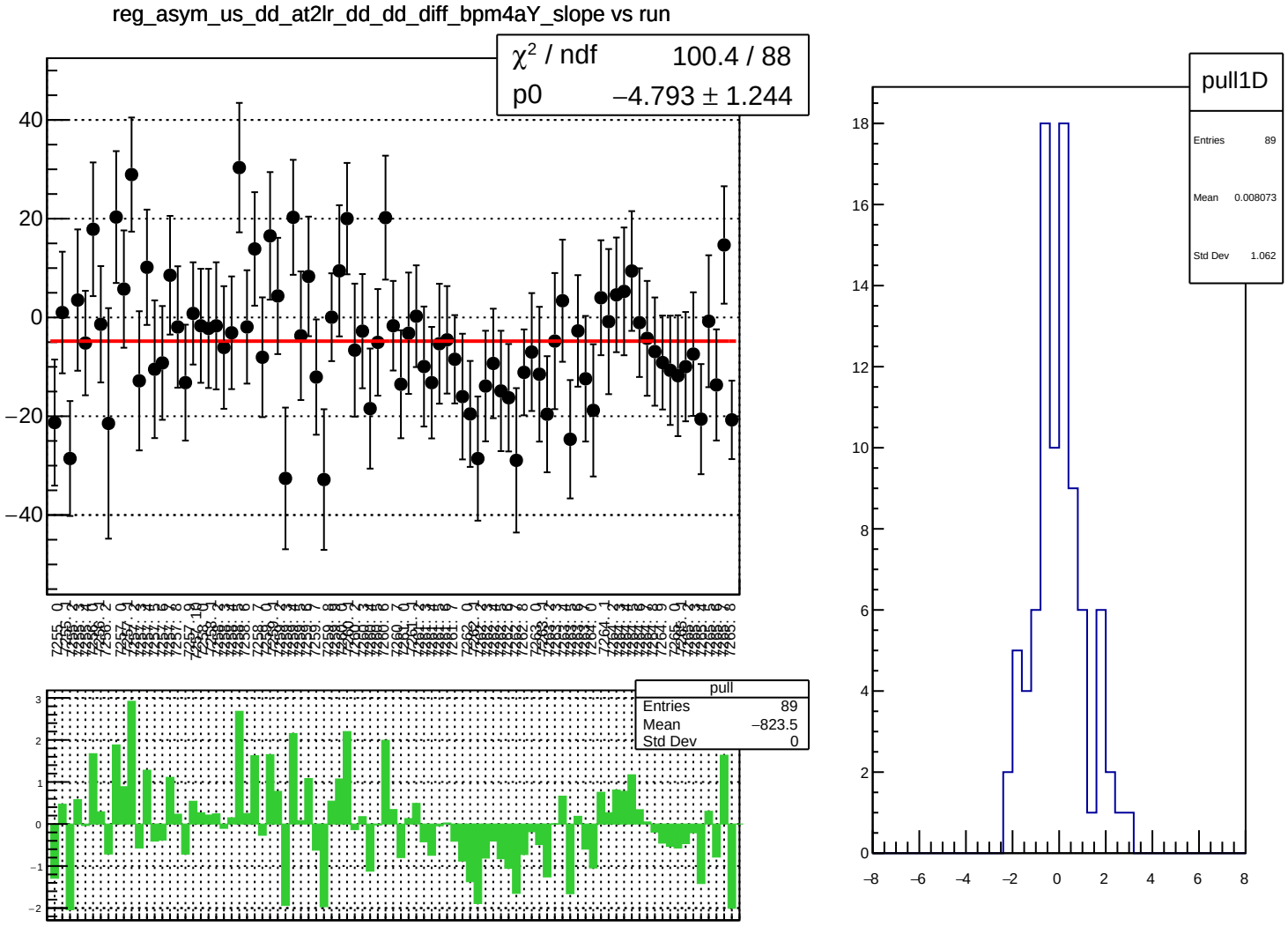

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 163.6 / 88
p0 −122.2 ± 2.361
pull
Entries 89
Mean −24.68
Std Dev 0

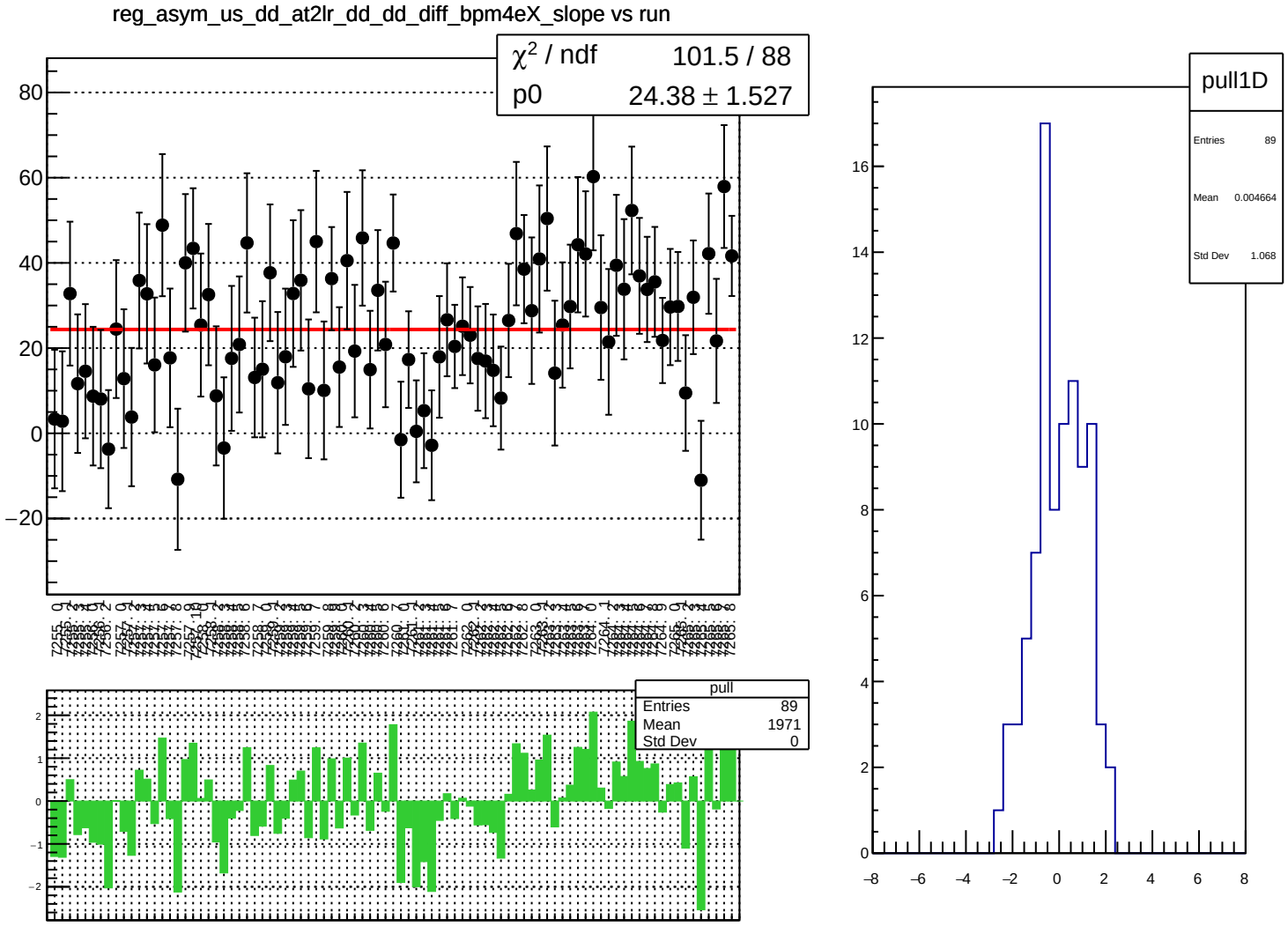

pull1D
Entries 89
Mean −0.1261
Std Dev 1.35

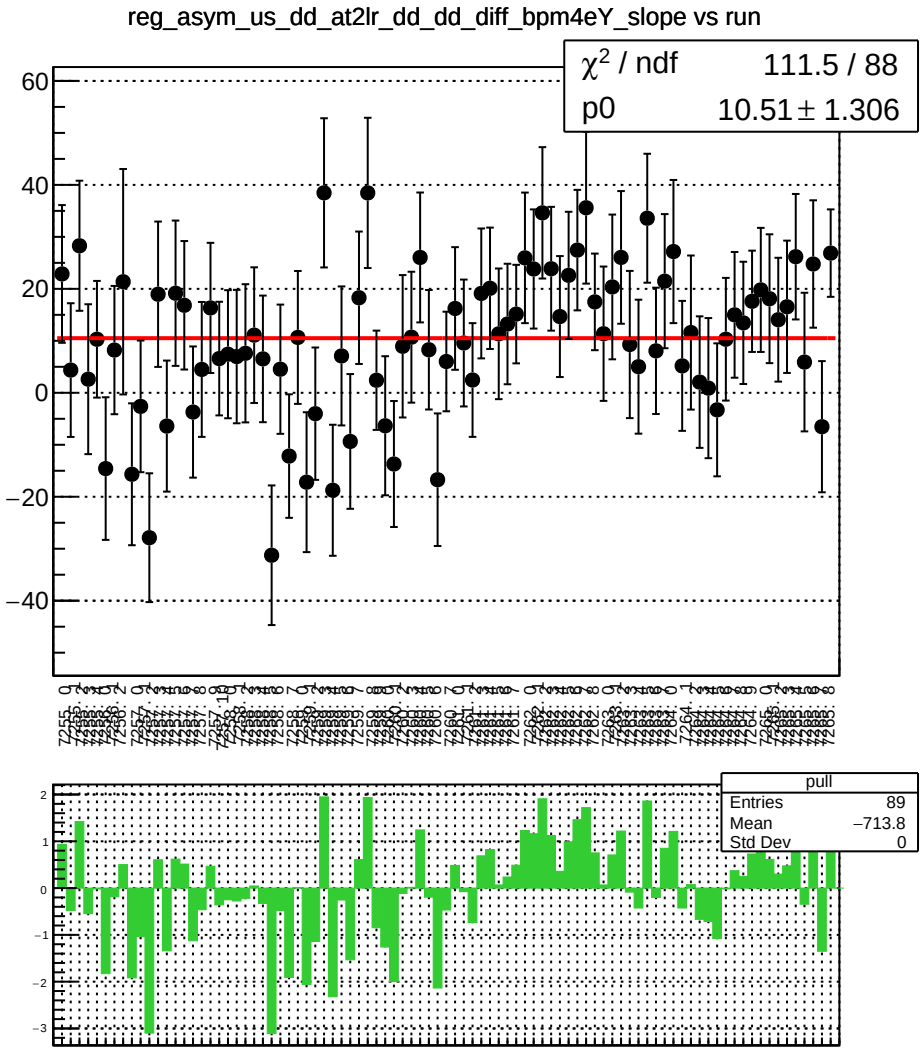

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 132.4 / 88
p0 −14.52 ± 2.018
pull
Entries 89
Mean −267.1
Std Dev 0
pull1D
Entries 89
Mean 0.04359
Std Dev 1.219

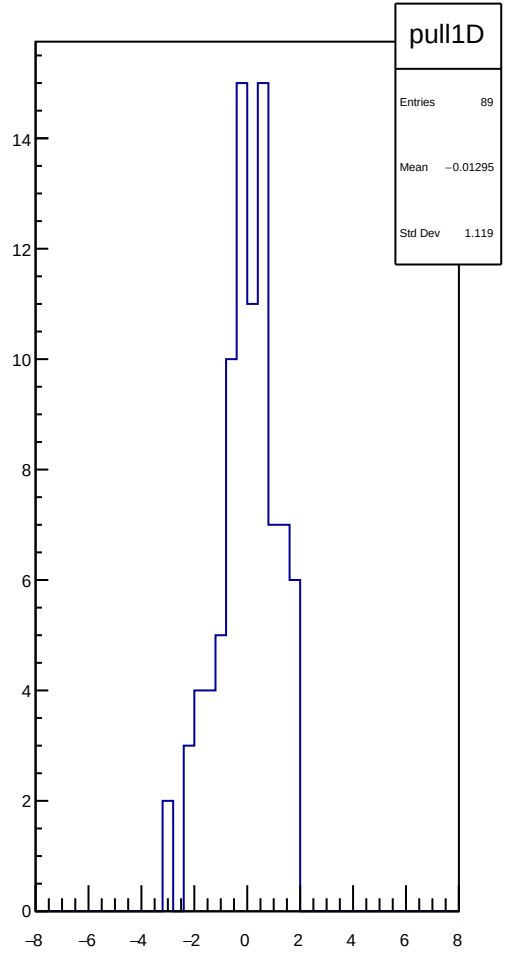

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 1203 / 88
p0 8.169 ± 0.08345
pull
Entries 89
Mean −2991
Std Dev 0
pull1D
Entries 89
Mean −0.02463
Std Dev 3.676

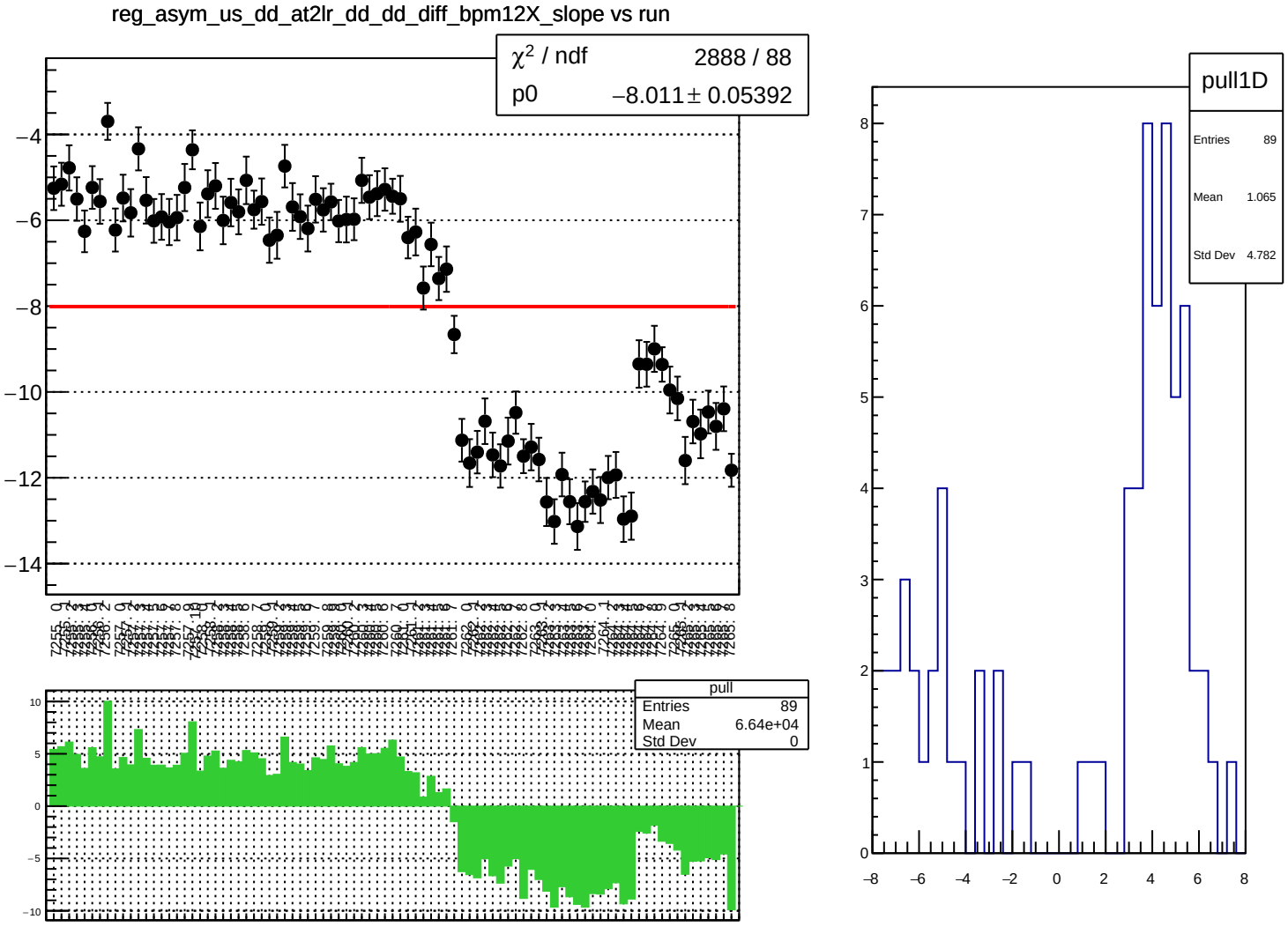

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 104.1 / 88
p0 −6.42 ± 1.411
pull
Entries 89
Mean 5336
Std Dev 0
pull1D
Entries 89
Mean −0.001779
Std Dev 1.082

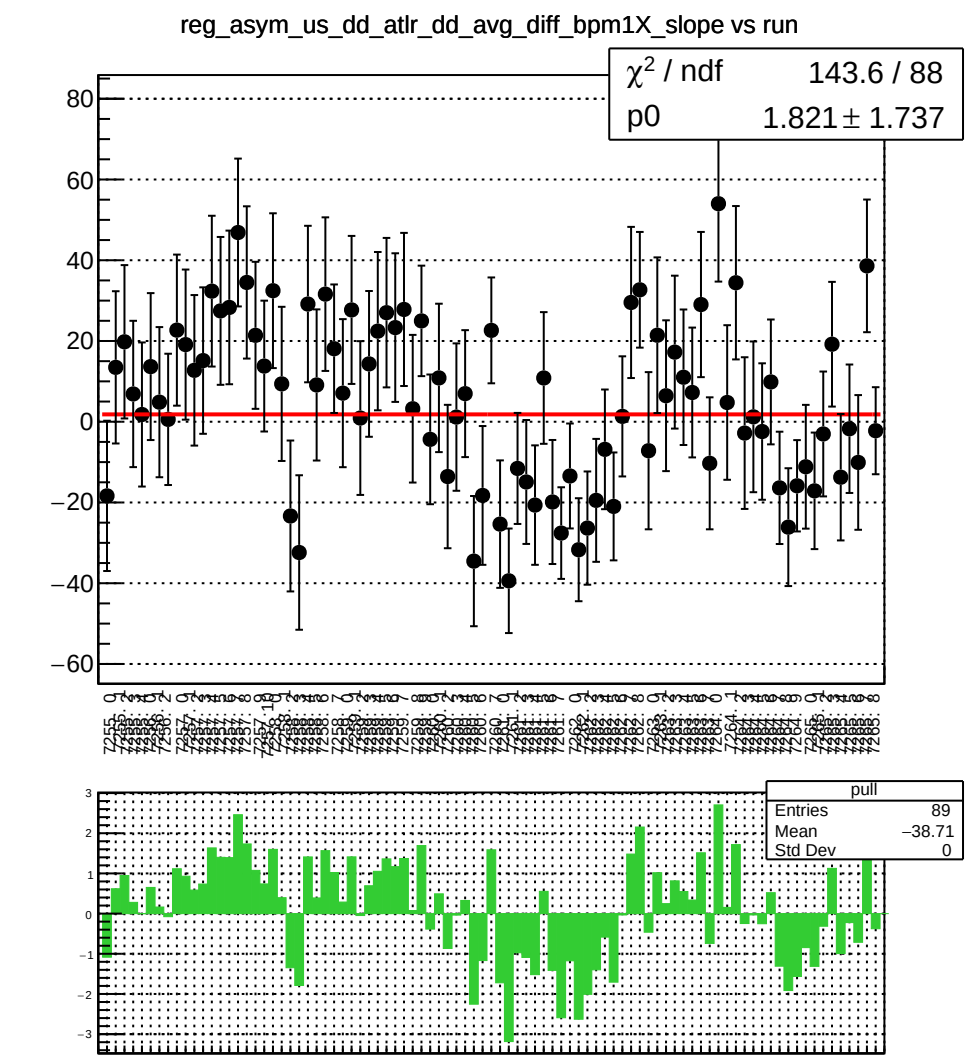

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 100.4 / 88
p0 −4.793 ± 1.244
pull
Entries 89
Mean −823.5
Std Dev 0
pull1D
Entries 89
Mean 0.008073
Std Dev 1.062

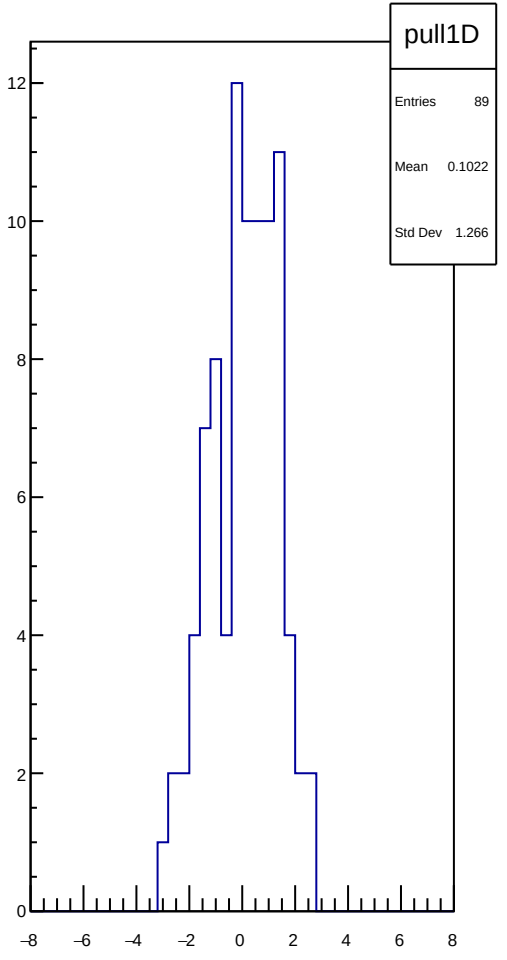

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 101.5 / 88
p0 24.38 ± 1.527
pull
Entries 89
Mean 1971
Std Dev 0
pull1D
Entries 89
Mean 0.004664
Std Dev 1.068

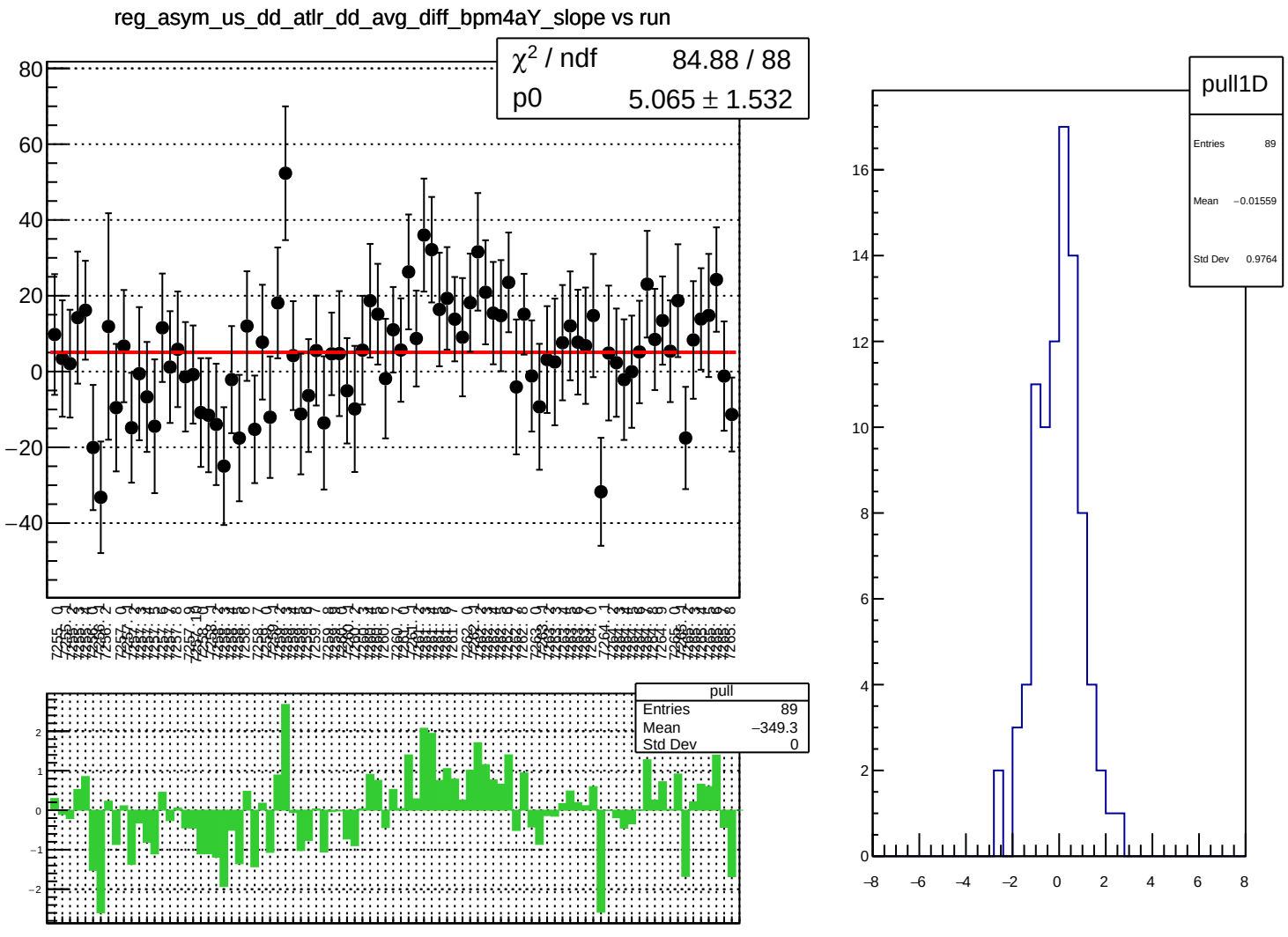

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 111.5 / 88
p0 10.51 ± 1.306
pull
Entries 89
Mean −713.8
Std Dev 0

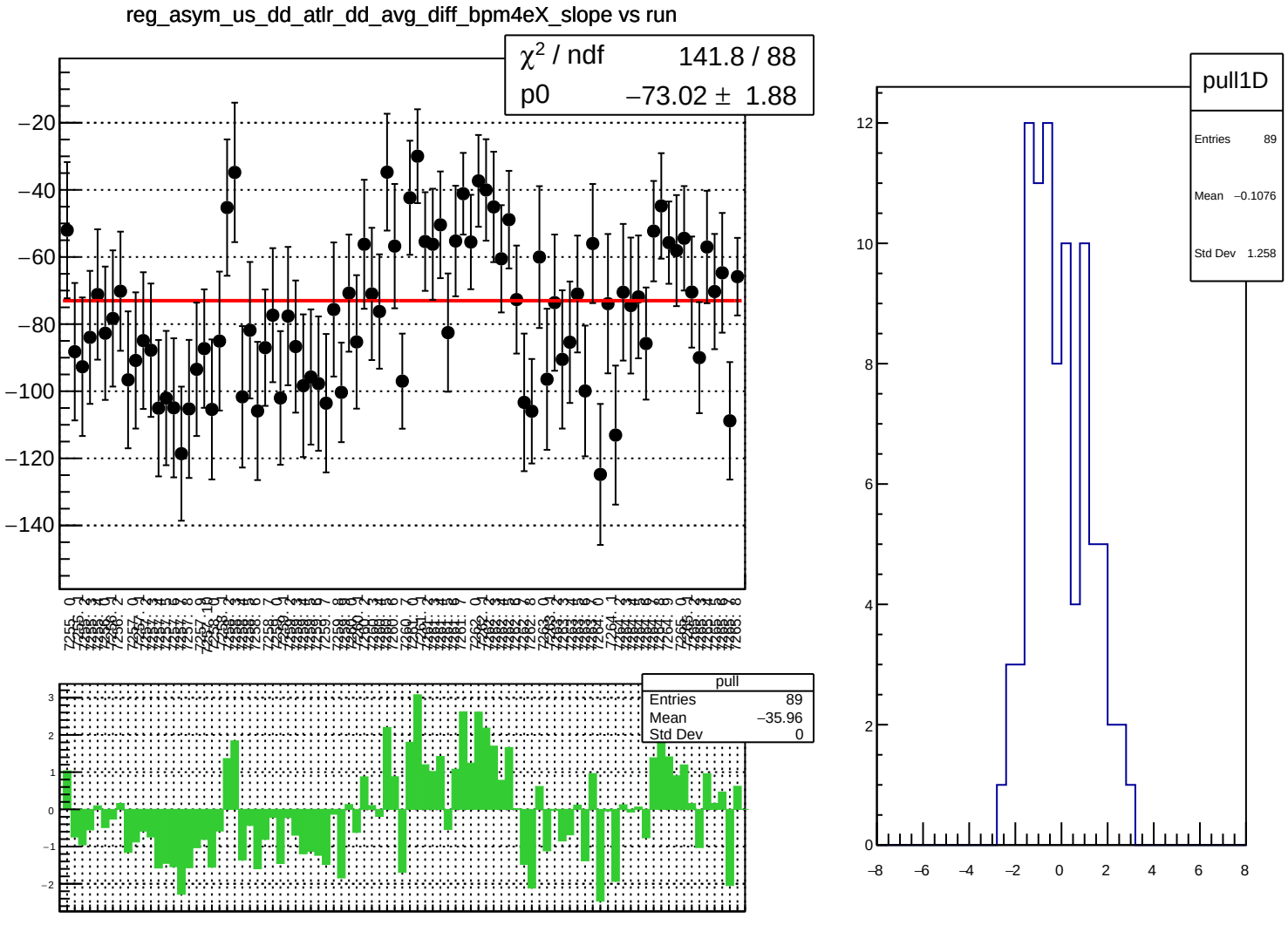

pull1D
Entries 89
Mean −0.01295
Std Dev 1.119

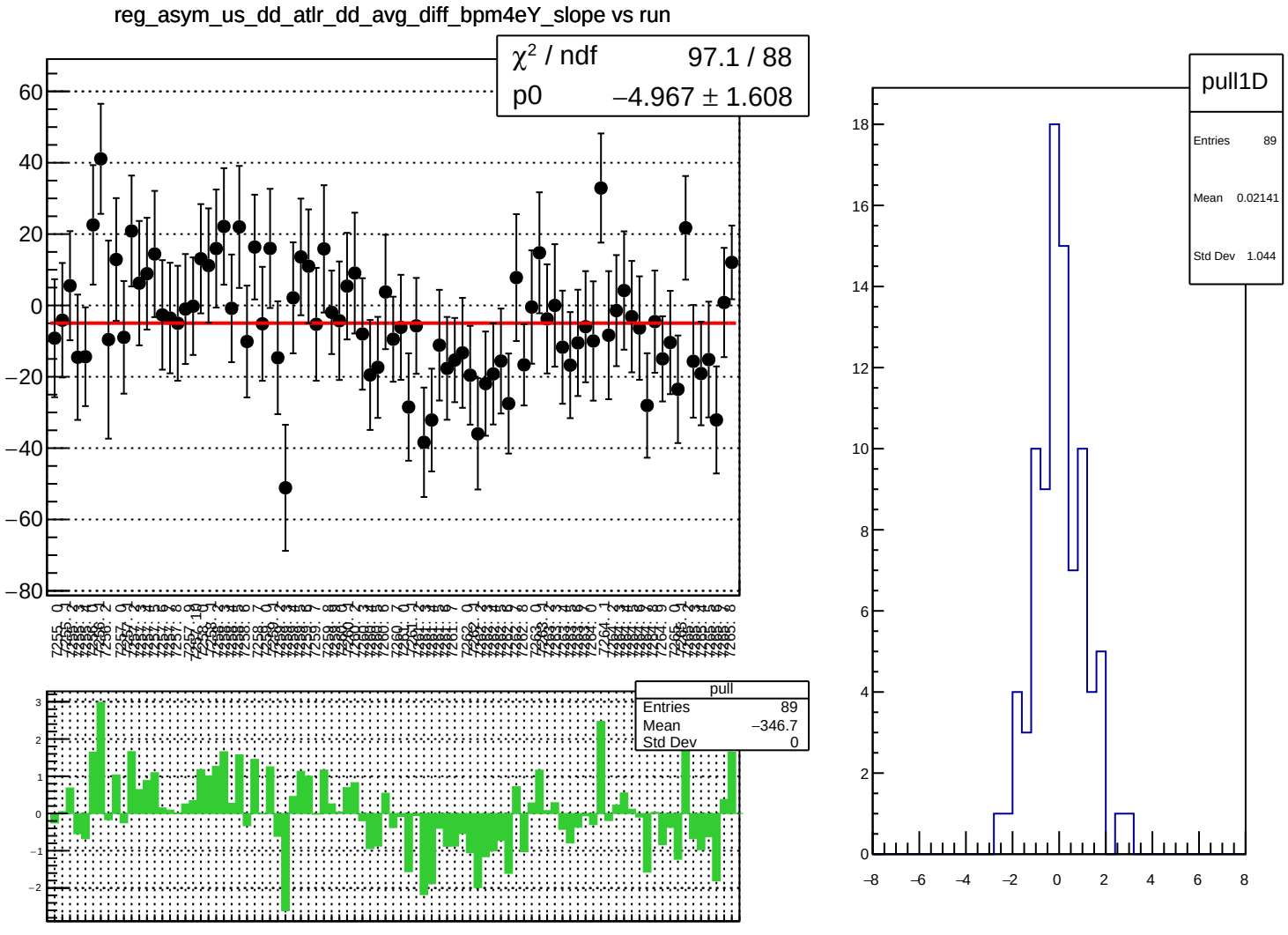

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 2888 / 88
p0 −8.011 ± 0.05392
pull
Entries 89
Mean 6.64e+04
Std Dev 0
pull1D
Entries 89
Mean 1.065
Std Dev 4.782

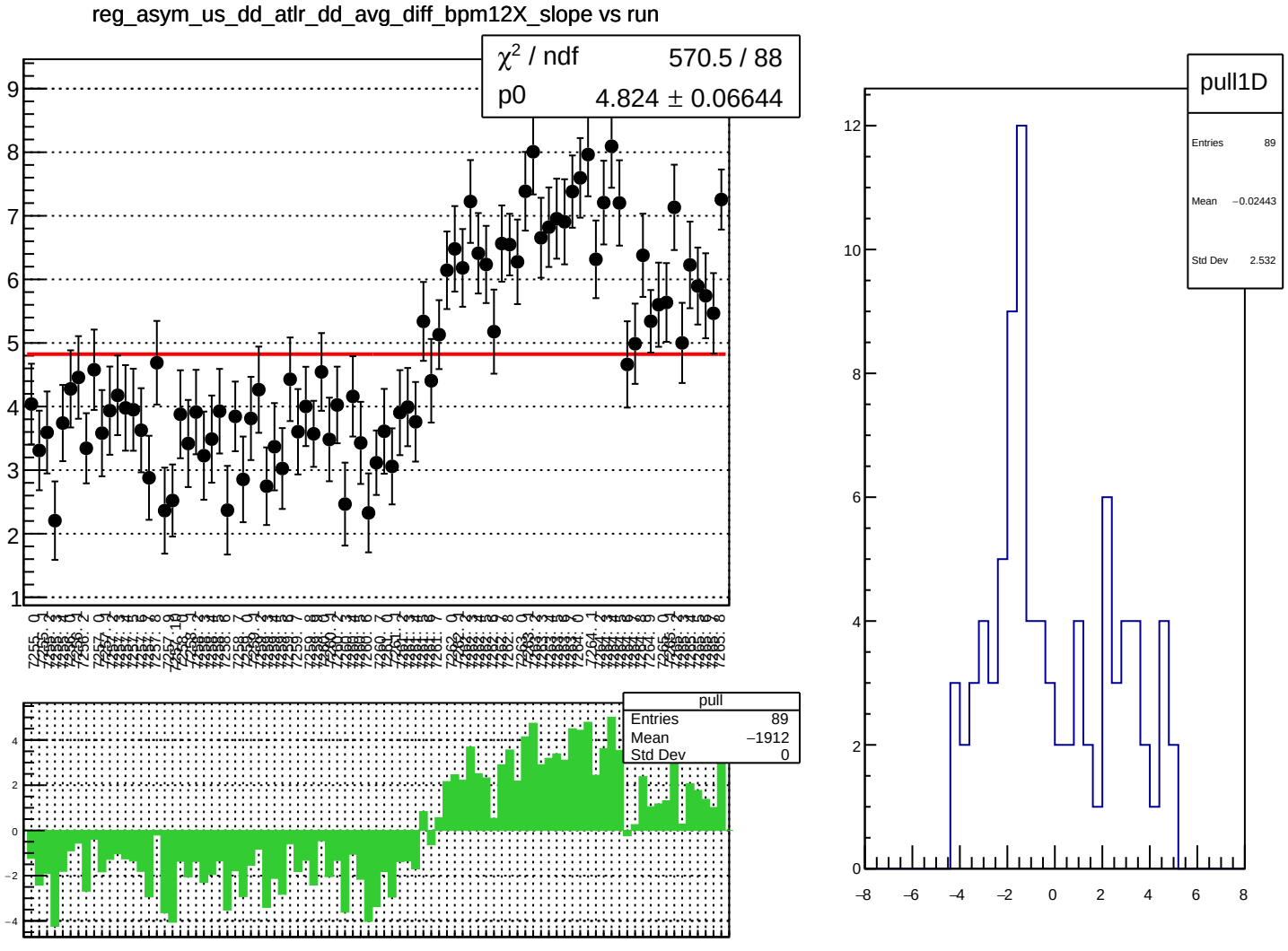

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 143.6 / 88
p0 1.821 ± 1.737
pull
Entries 89
Mean −38.71
Std Dev 0

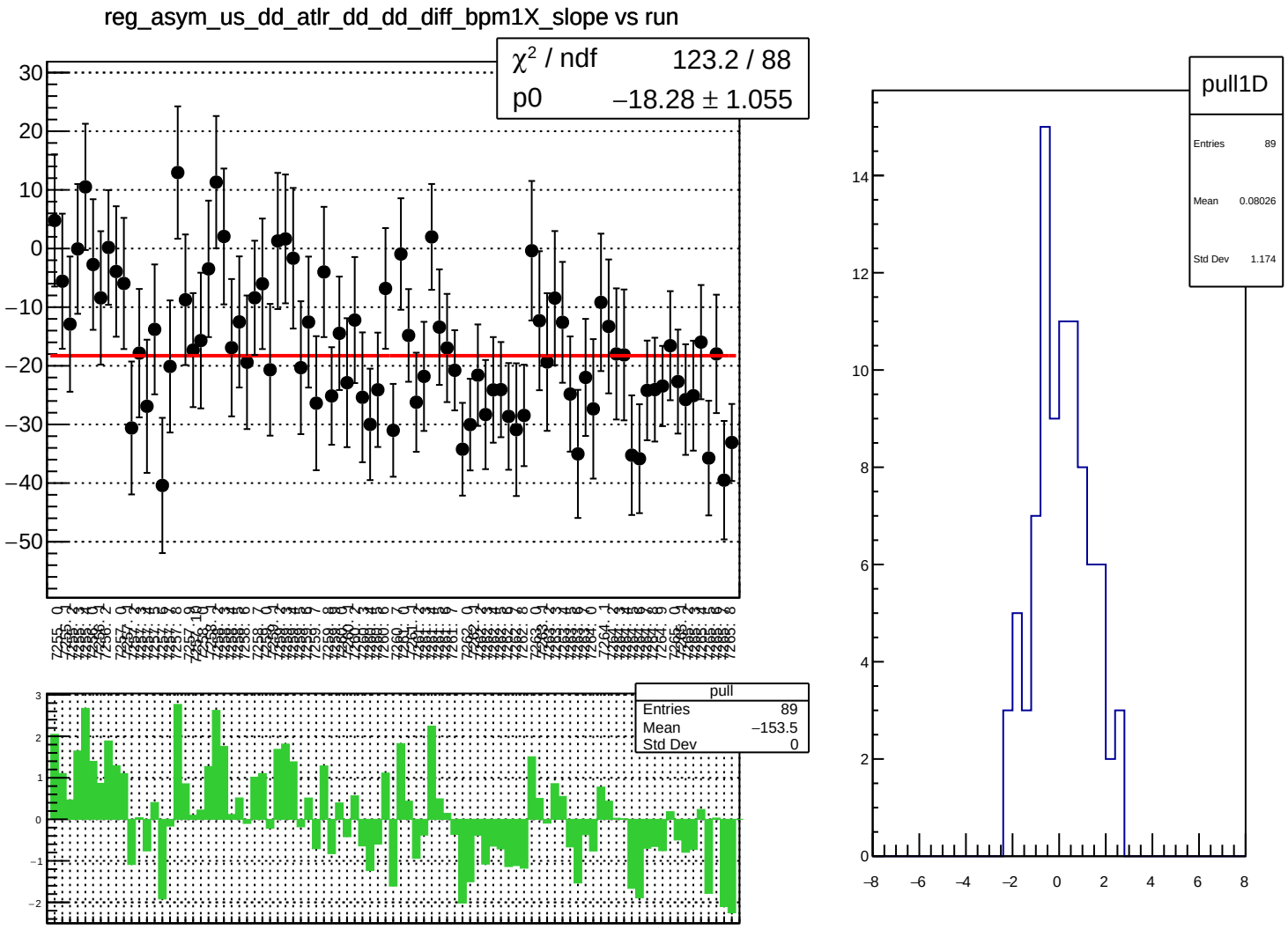

pull1D
Entries 89
Mean 0.1022
Std Dev 1.266

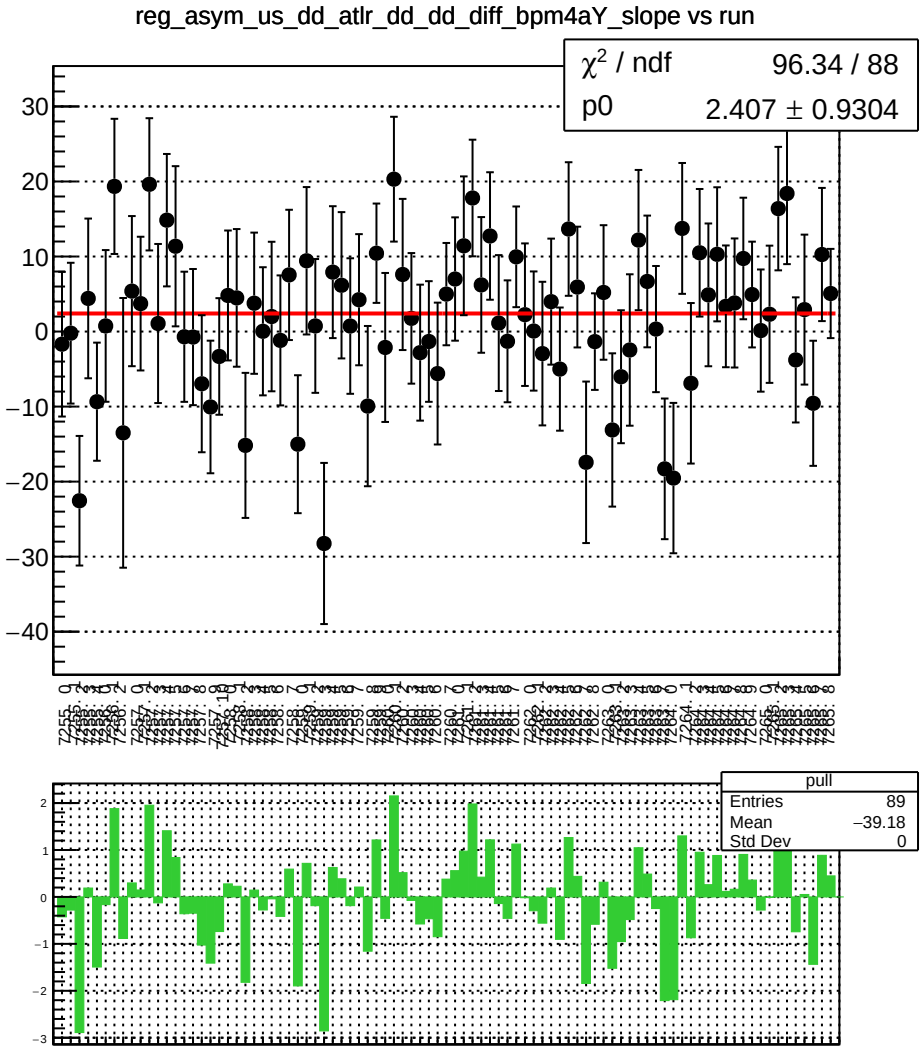

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 84.88 / 88
p0 5.065 ± 1.532
pull
Entries 89
Mean −349.3
Std Dev 0
pull1D
Entries 89
Mean −0.01559
Std Dev 0.9764

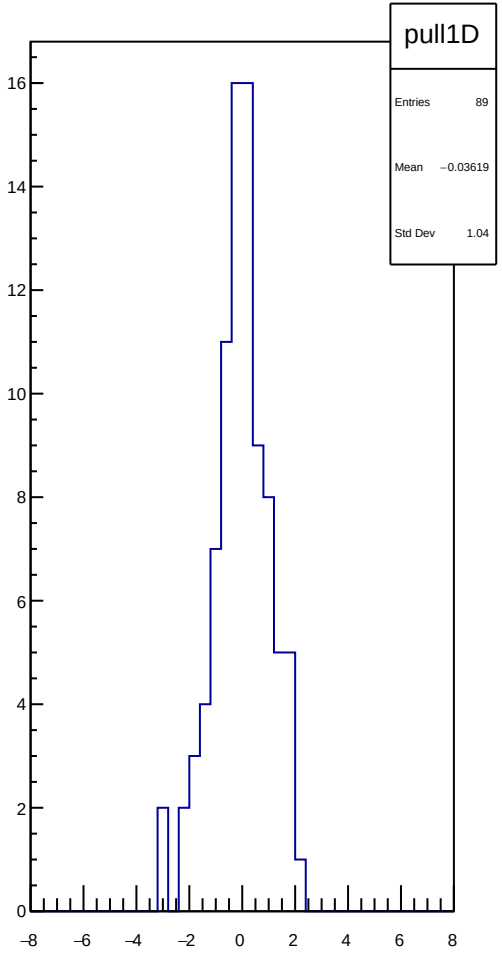

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 141.8 / 88
p0 −73.02 ± 1.88
pull
Entries 89
Mean −35.96
Std Dev 0
pull1D
Entries 89
Mean −0.1076
Std Dev 1.258

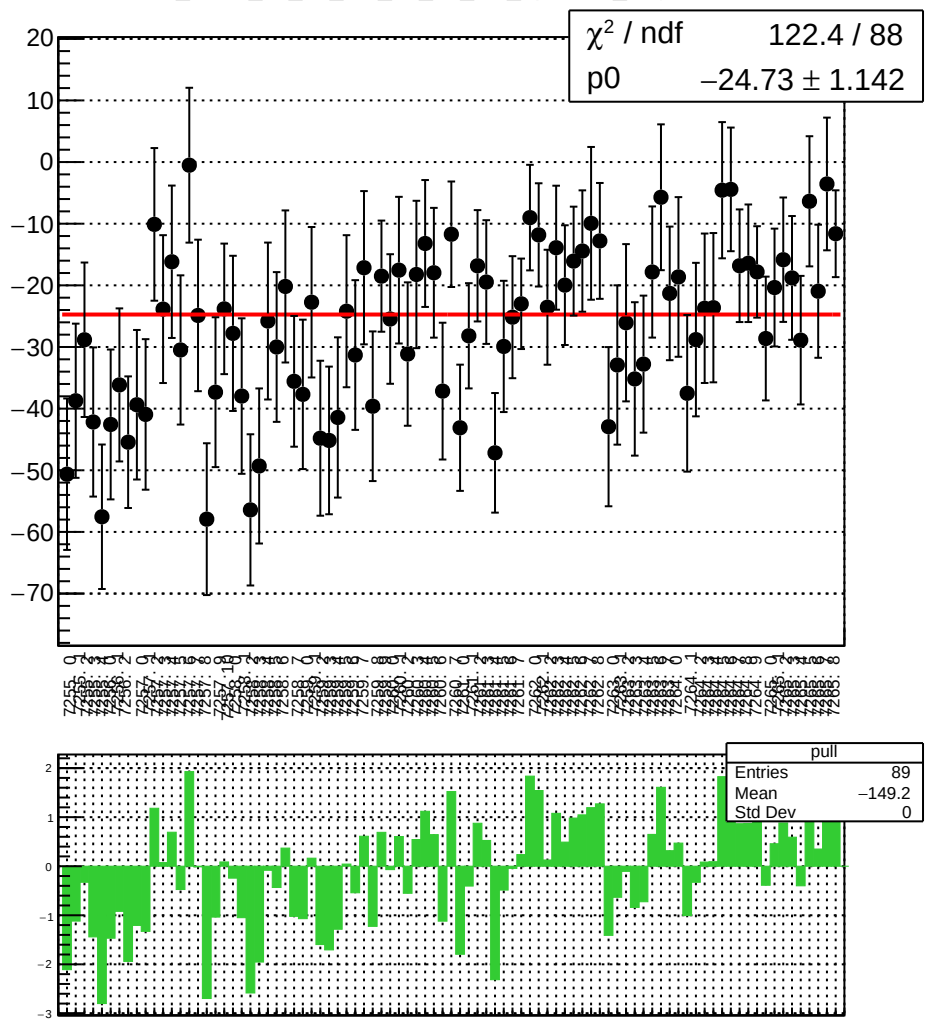

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 97.1 / 88
p0 −4.967 ± 1.608
pull
Entries 89
Mean −346.7
Std Dev 0
pull1D
Entries 89
Mean 0.02141
Std Dev 1.044

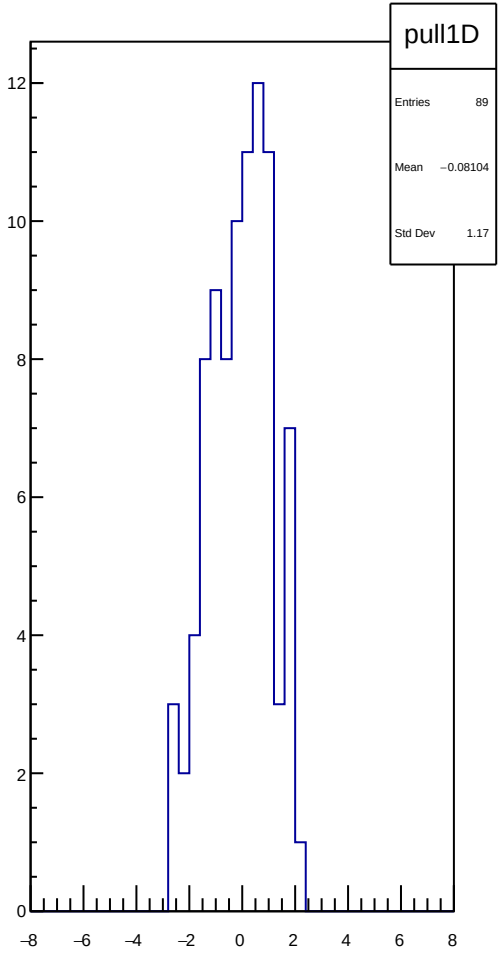

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 570.5 / 88
p0 4.824 ± 0.06644
pull
Entries 89
Mean −1912
Std Dev 0
pull1D
Entries 89
Mean −0.02443
Std Dev 2.532

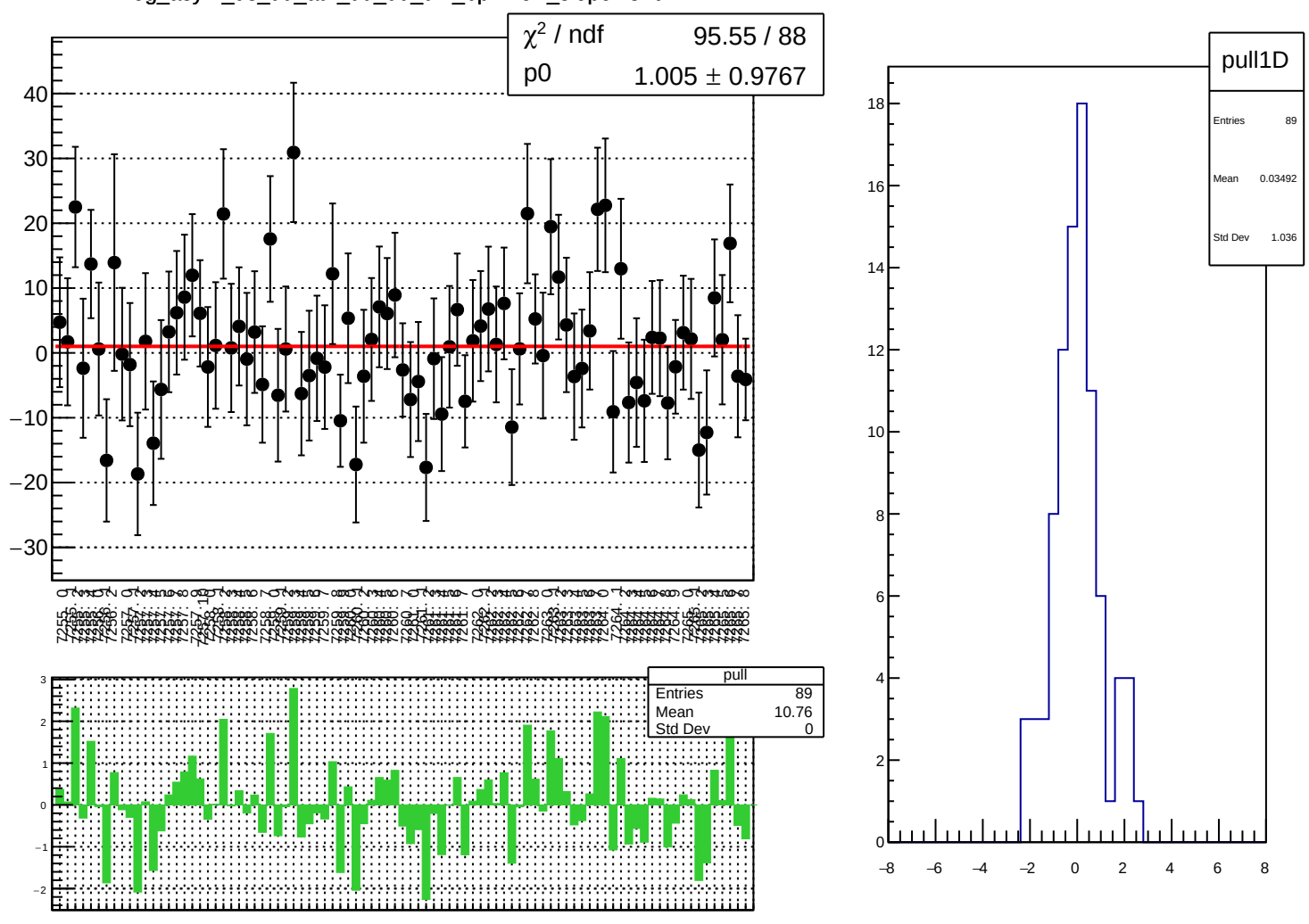

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 123.2 / 88
p0 −18.28 ± 1.055
pull
Entries 89
Mean −153.5
Std Dev 0
pull1D
Entries 89
Mean 0.08026
Std Dev 1.174

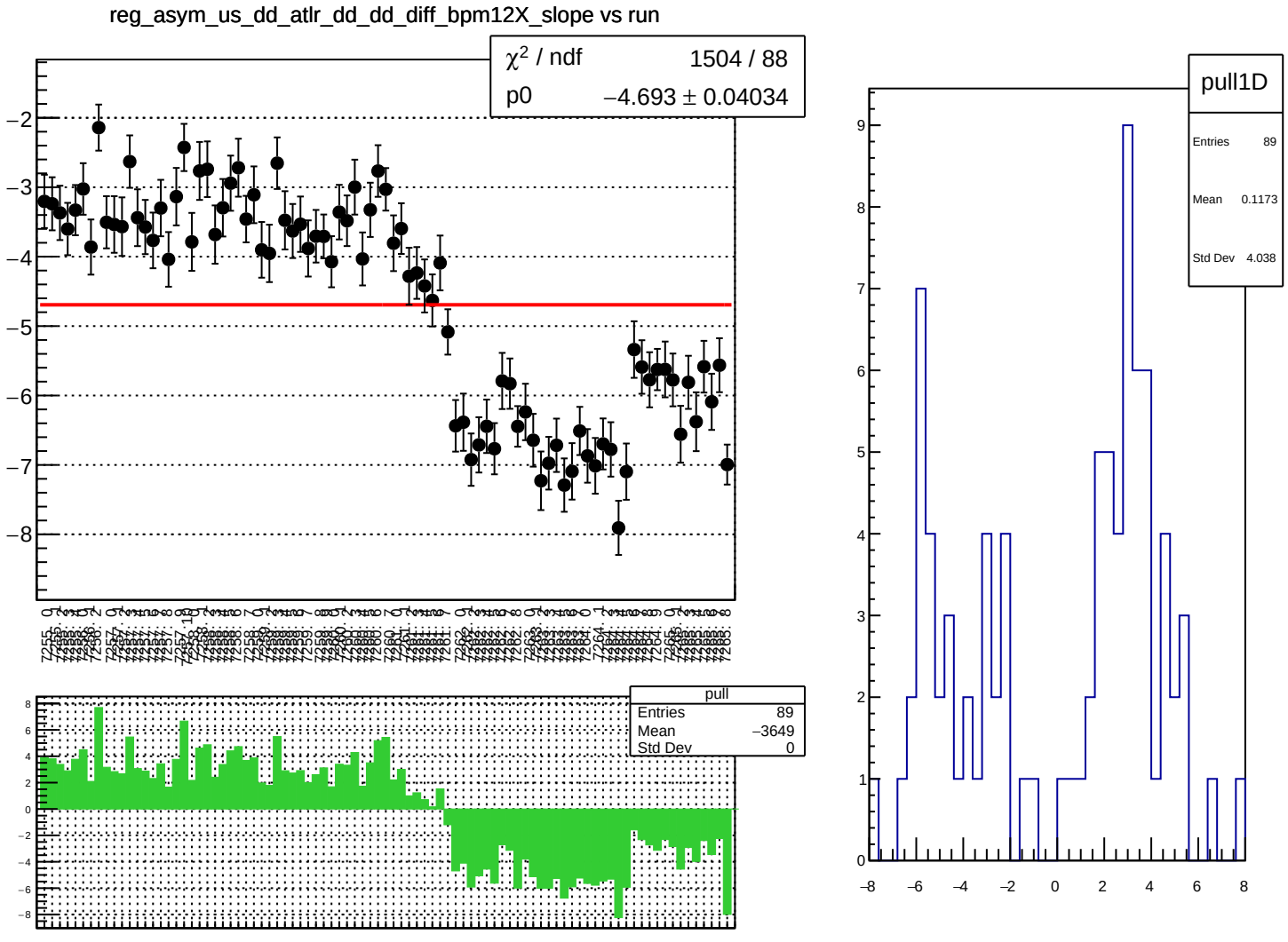

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 96.34 / 88
p0 2.407 ± 0.9304
pull
Entries 89
Mean −39.18
Std Dev 0

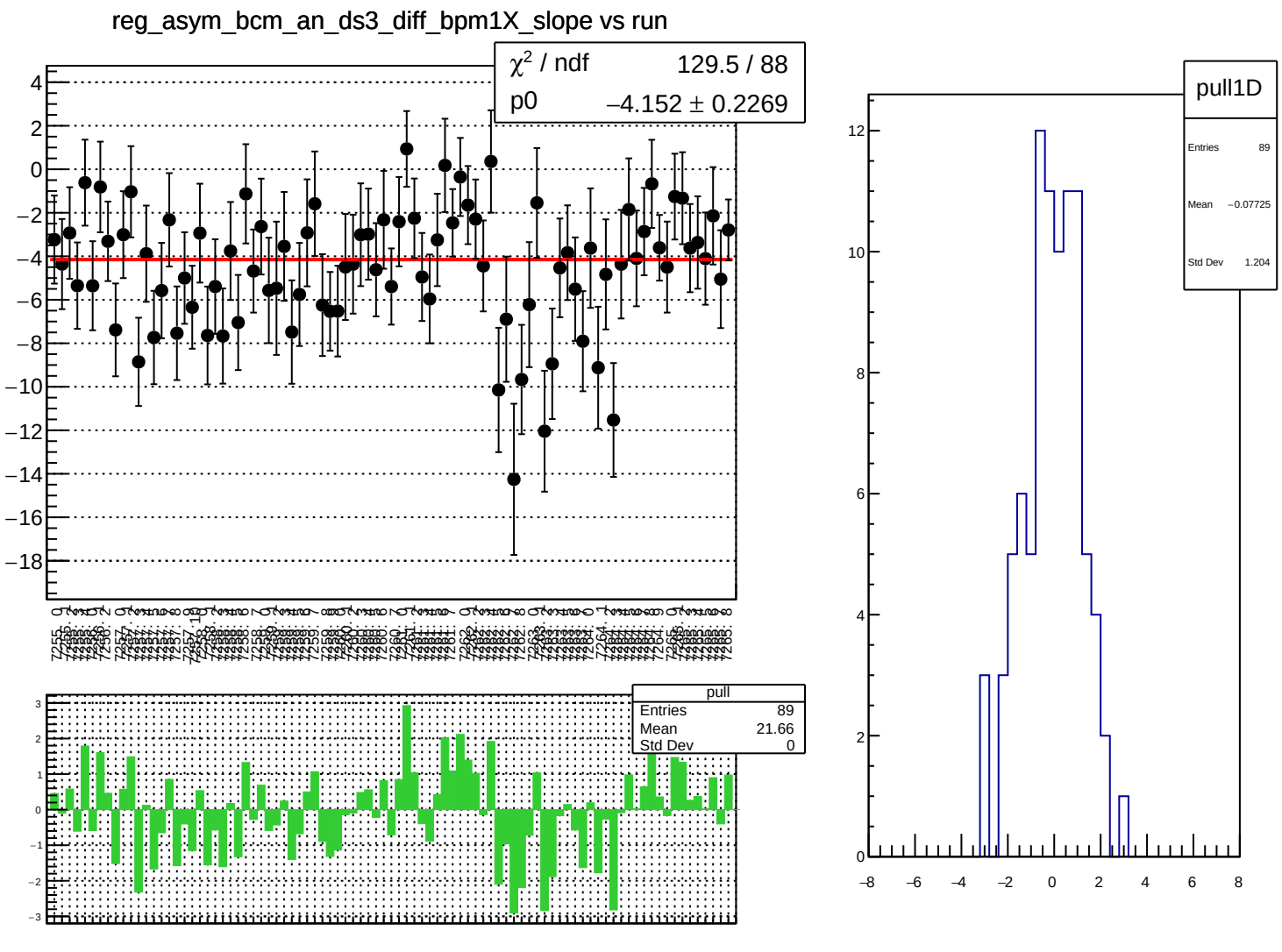

pull1D
Entries 89
Mean −0.03619
Std Dev 1.04

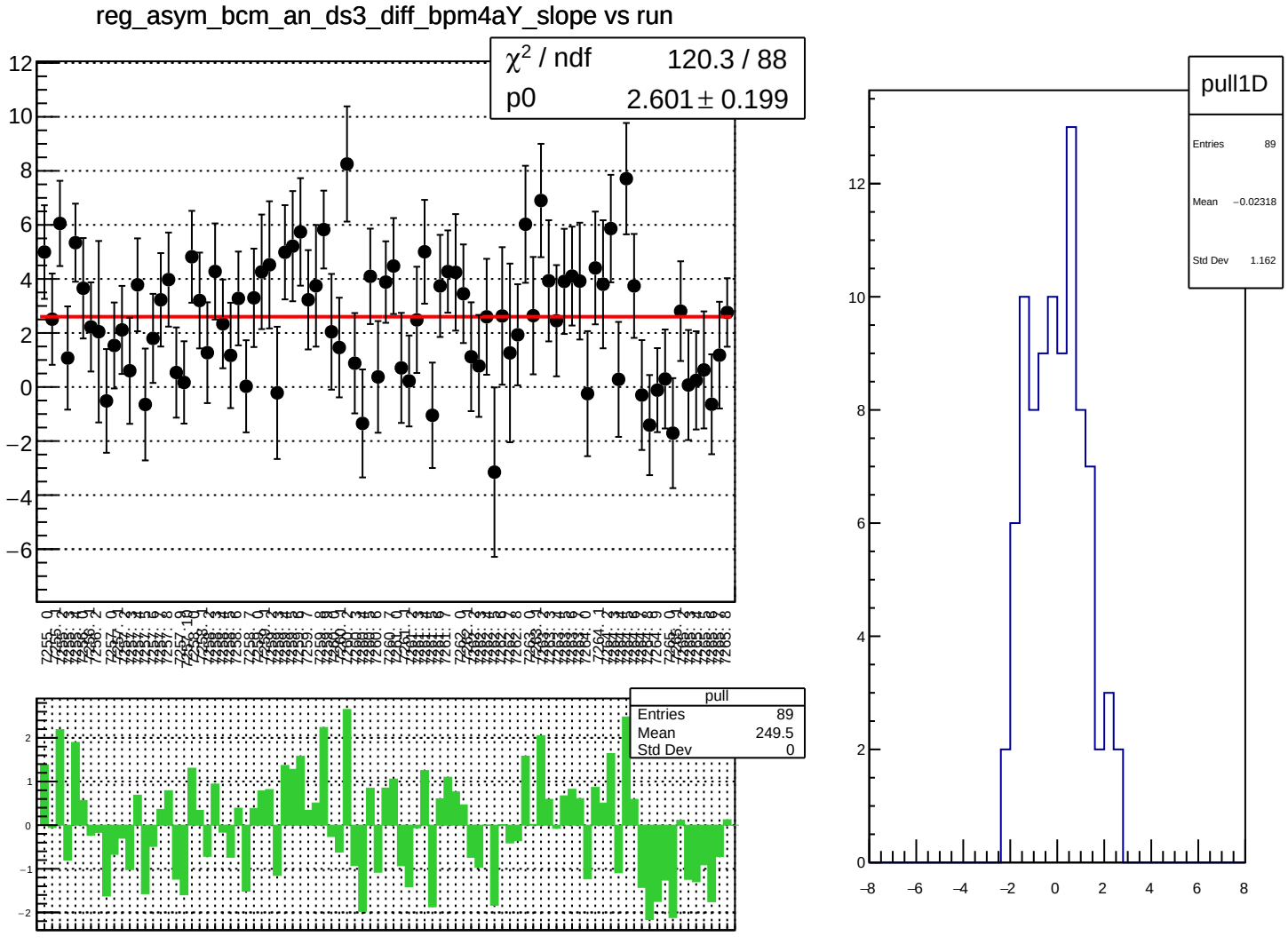

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 122.4 / 88
p0 −24.73 ± 1.142
pull
Entries 89
Mean −149.2
Std Dev 0

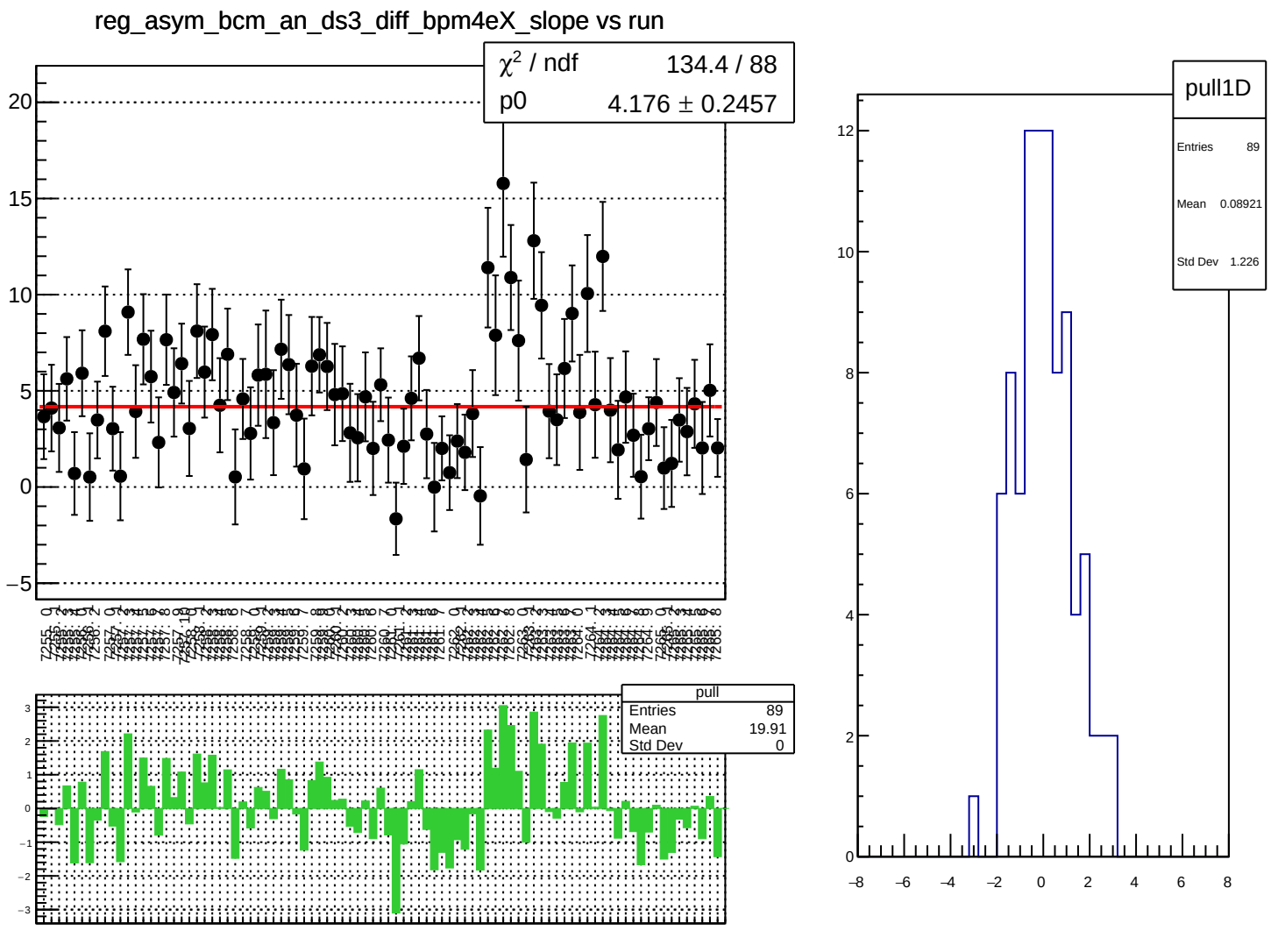

pull1D
Entries 89
Mean −0.08104
Std Dev 1.17

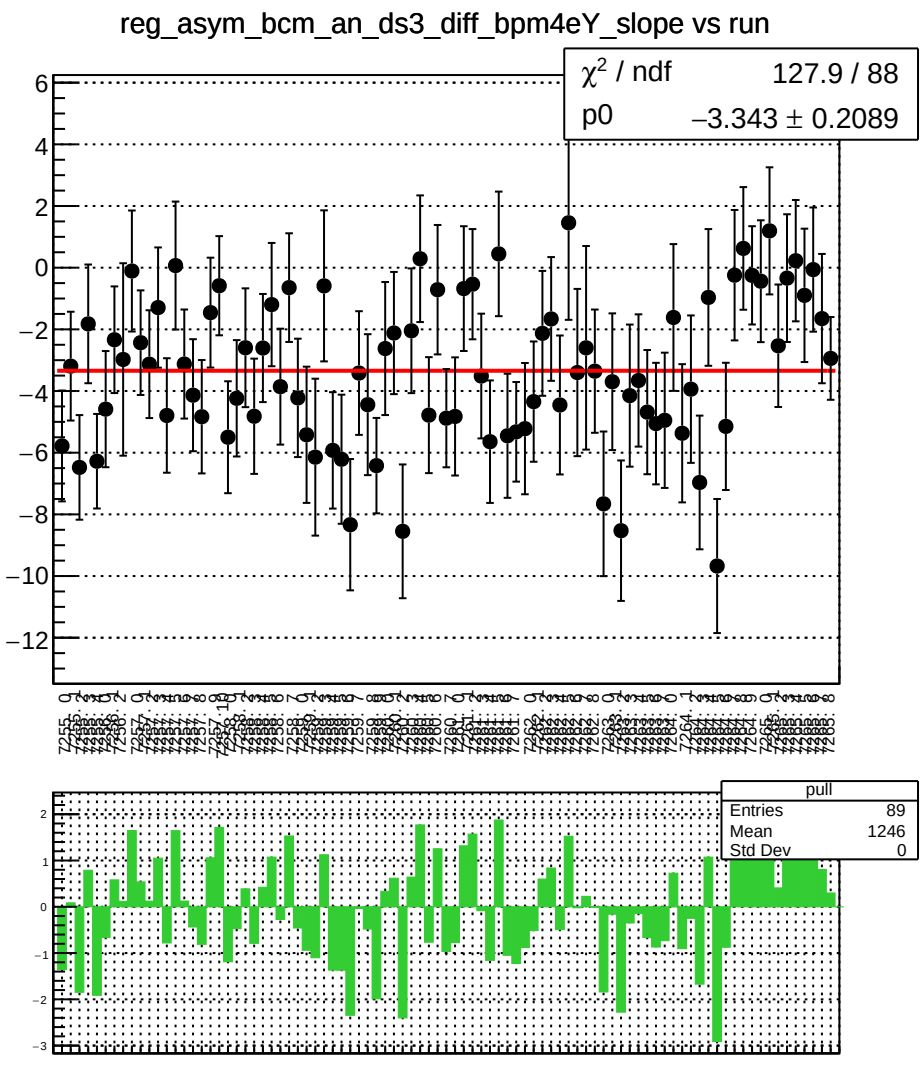

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 95.55 / 88
p0 1.005 ± 0.9767
pull
Entries 89
Mean 10.76
Std Dev 0
pull1D
Entries 89
Mean 0.03492
Std Dev 1.036

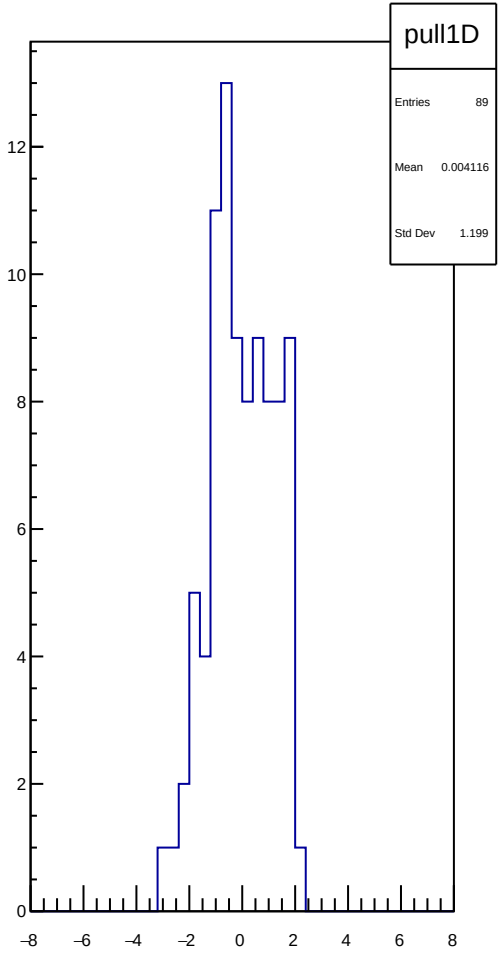

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 1504 / 88
p0 −4.693 ± 0.04034
pull
Entries 89
Mean −3649
Std Dev 0
pull1D
Entries 89
Mean 0.1173
Std Dev 4.038

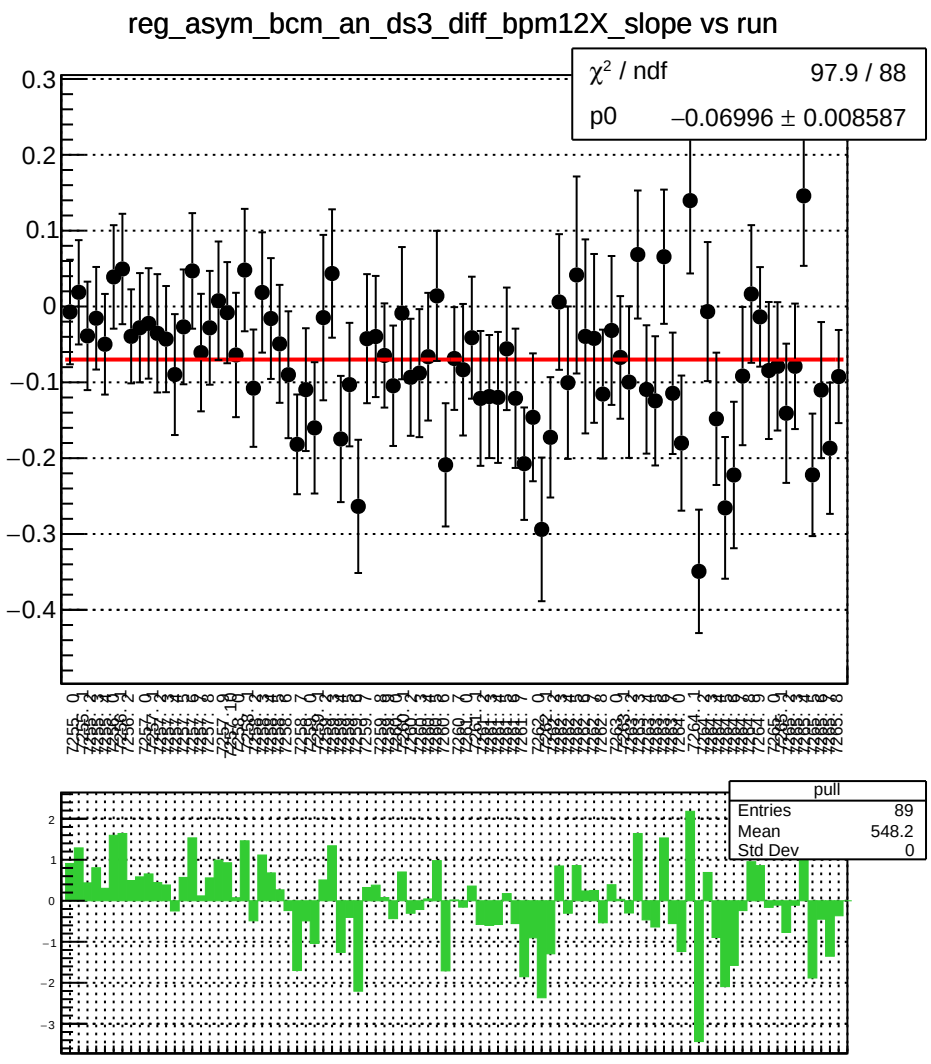

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 129.5 / 88
p0 −4.152 ± 0.2269
pull
Entries 89
Mean 21.66
Std Dev 0
pull1D
Entries 89
Mean −0.07725
Std Dev 1.204

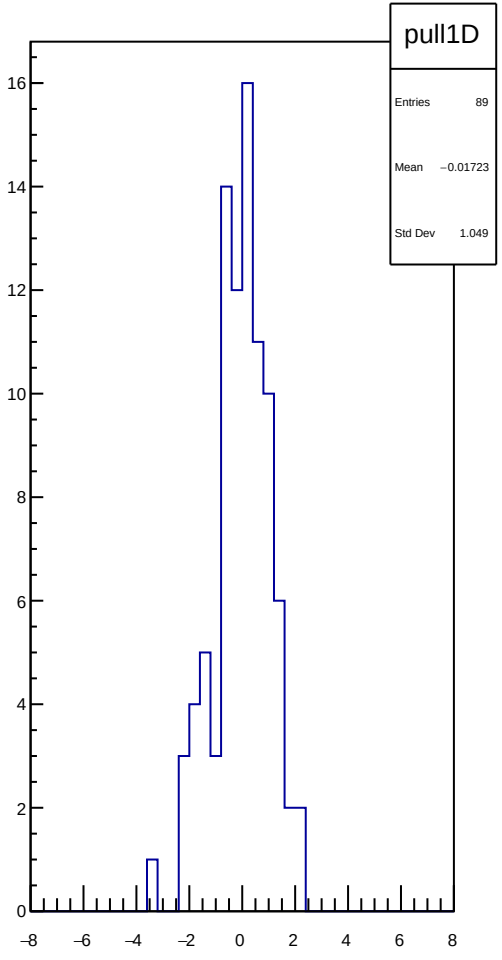

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 120.3 / 88
p0 2.601 ± 0.199
pull
Entries 89
Mean 249.5
Std Dev 0
pull1D
Entries 89
Mean −0.02318
Std Dev 1.162

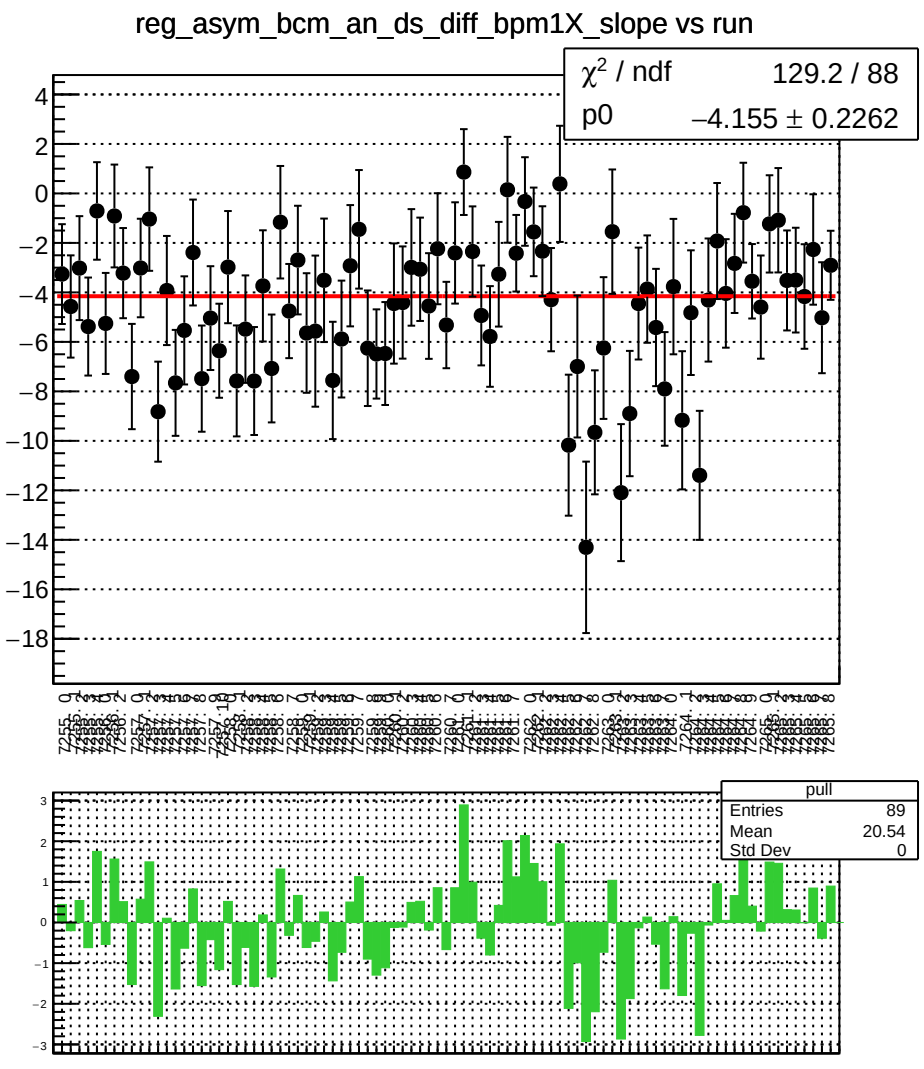

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 134.4 / 88
p0 4.176 ± 0.2457
pull
Entries 89
Mean 19.91
Std Dev 0
pull1D
Entries 89
Mean 0.08921
Std Dev 1.226

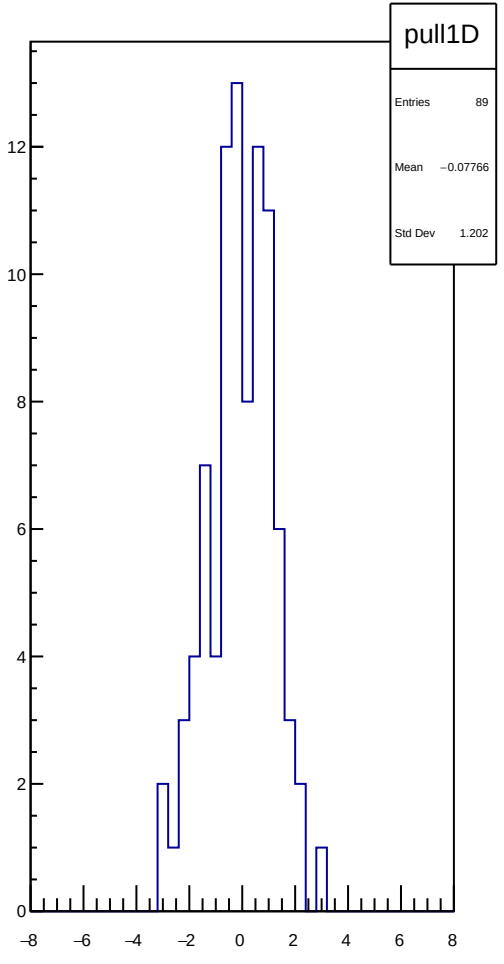

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 127.9 / 88
p0 −3.343 ± 0.2089
pull
Entries 89
Mean 1246
Std Dev 0

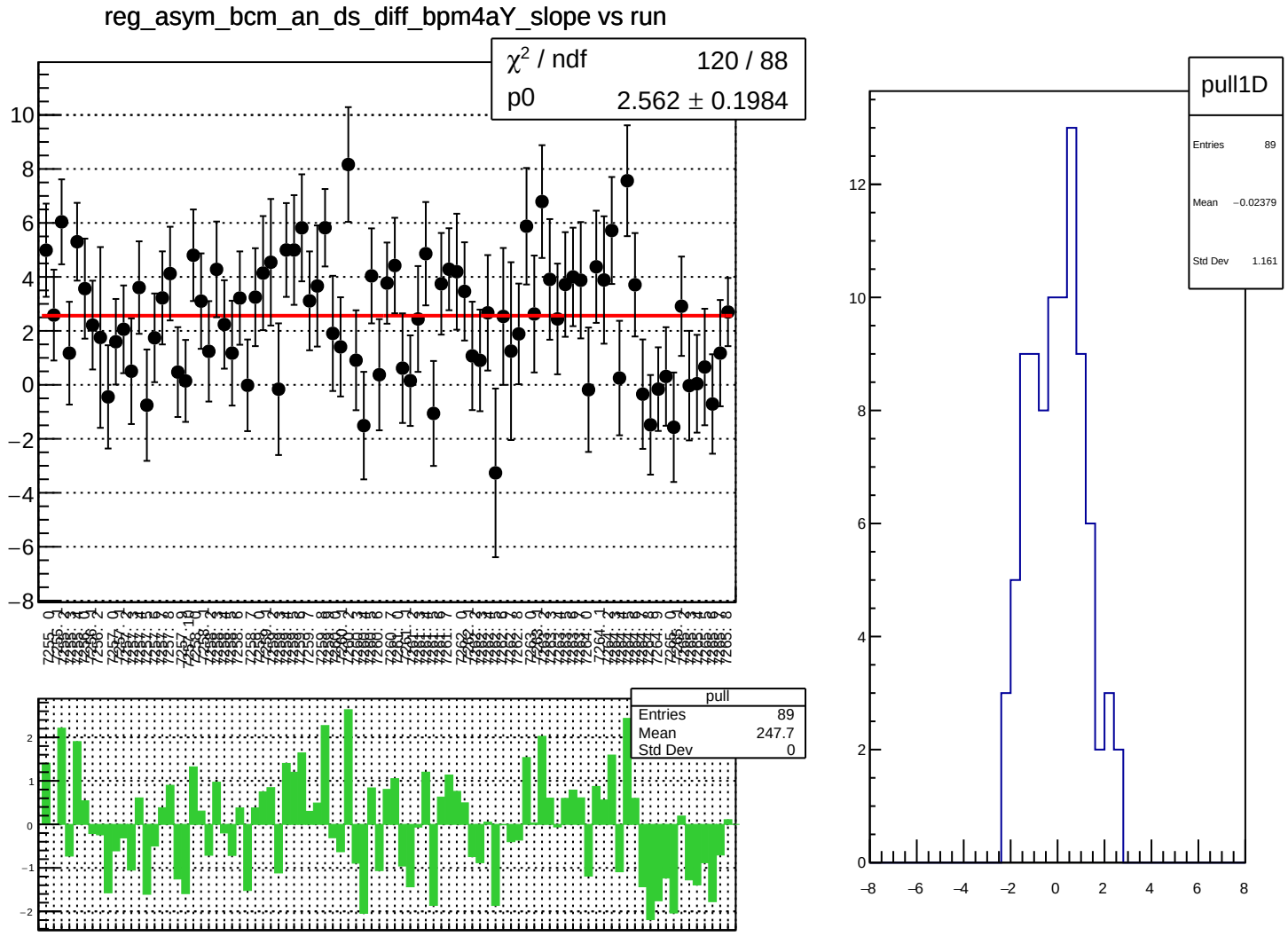

pull1D
Entries 89
Mean 0.004116
Std Dev 1.199

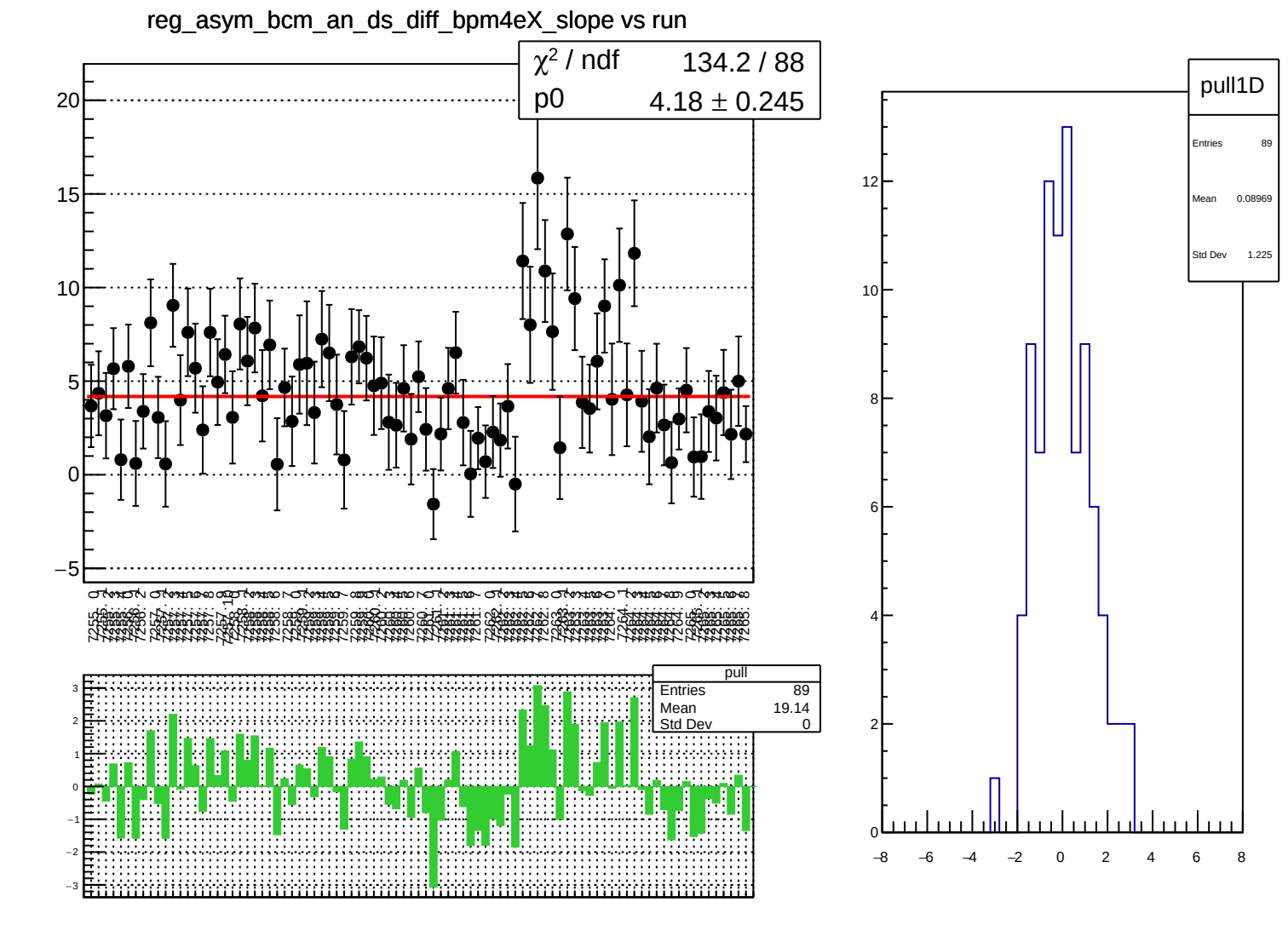

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 97.9 / 88
p0 −0.06996 ± 0.008587
pull
Entries 89
Mean 548.2
Std Dev 0

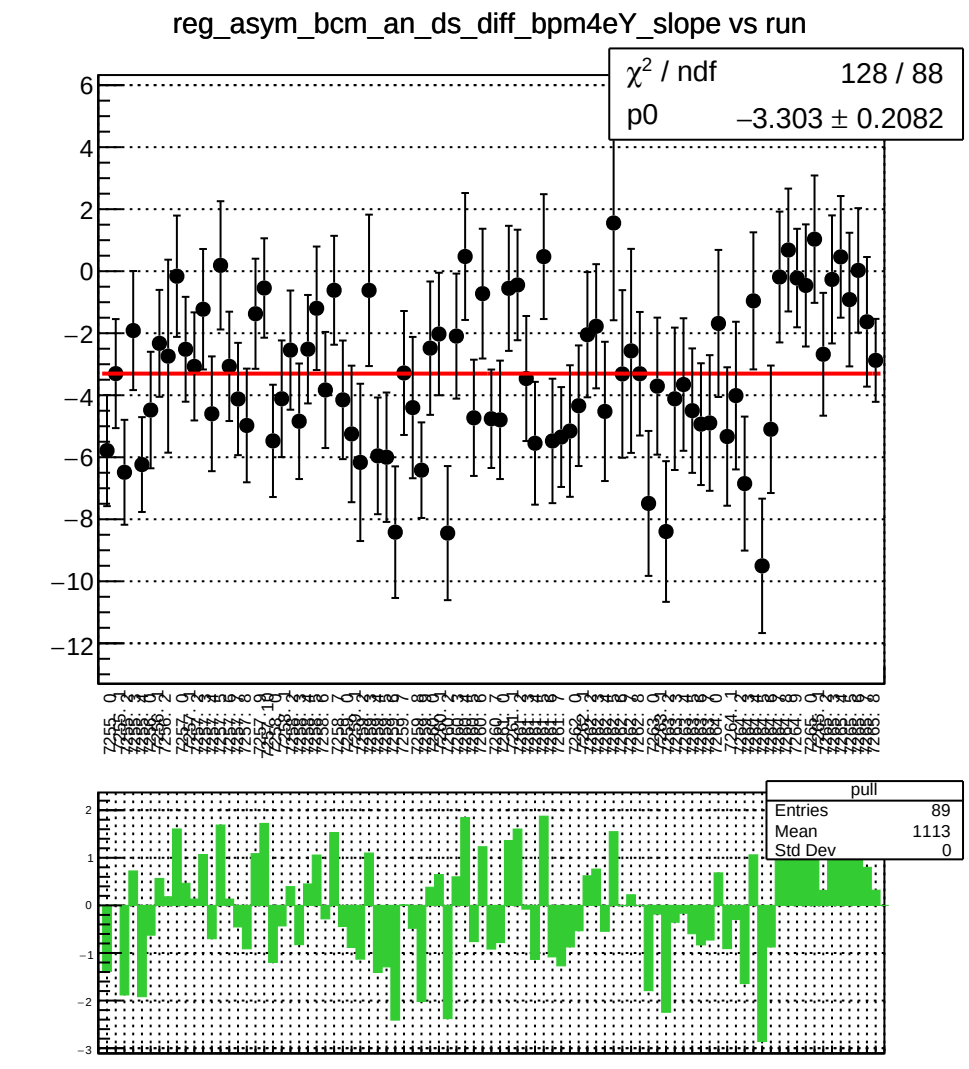

pull1D
Entries 89
Mean −0.01723
Std Dev 1.049

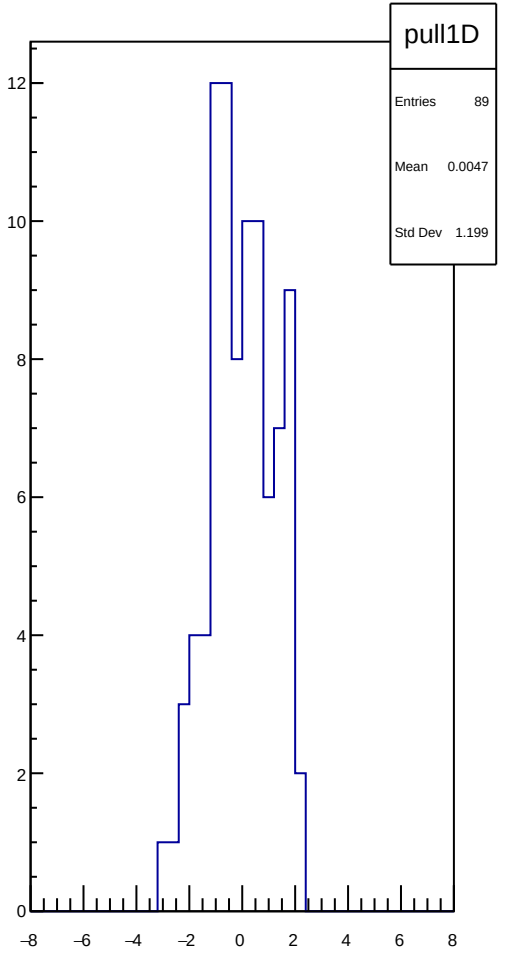

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 129.2 / 88
p0 −4.155 ± 0.2262
pull
Entries 89
Mean 20.54
Std Dev 0

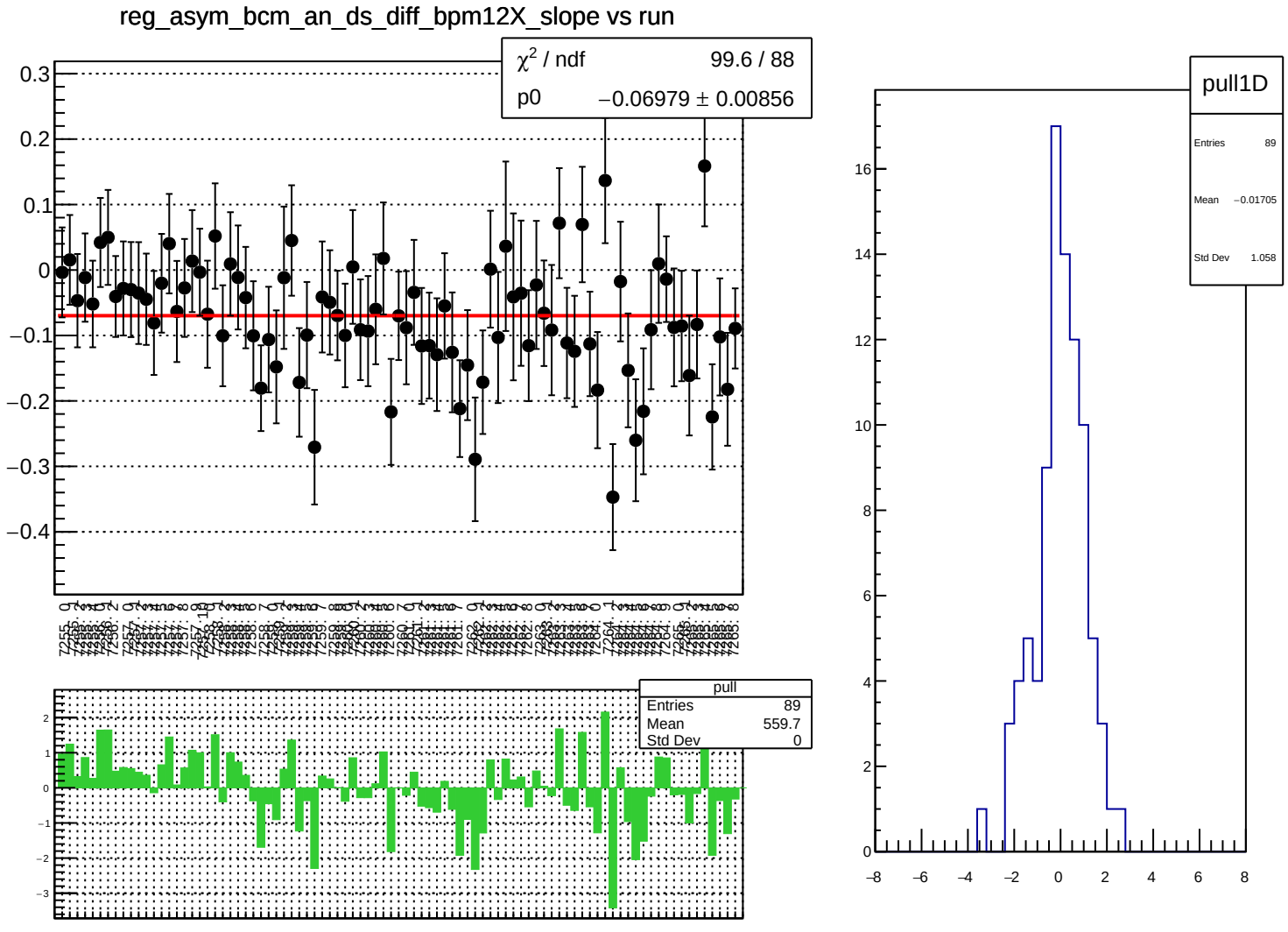

pull1D
Entries 89
Mean −0.07766
Std Dev 1.202

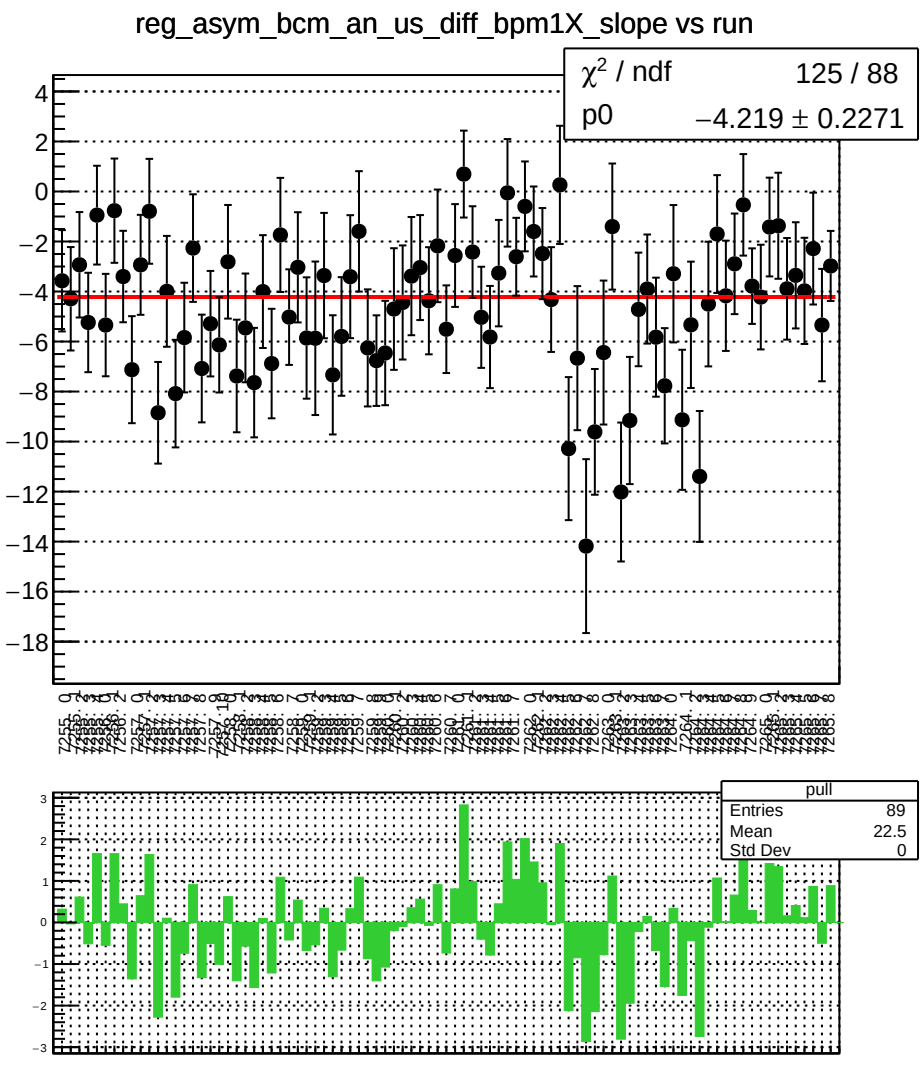

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 120 / 88
p0 2.562 ± 0.1984
pull
Entries 89
Mean 247.7
Std Dev 0
pull1D
Entries 89
Mean −0.02379
Std Dev 1.161

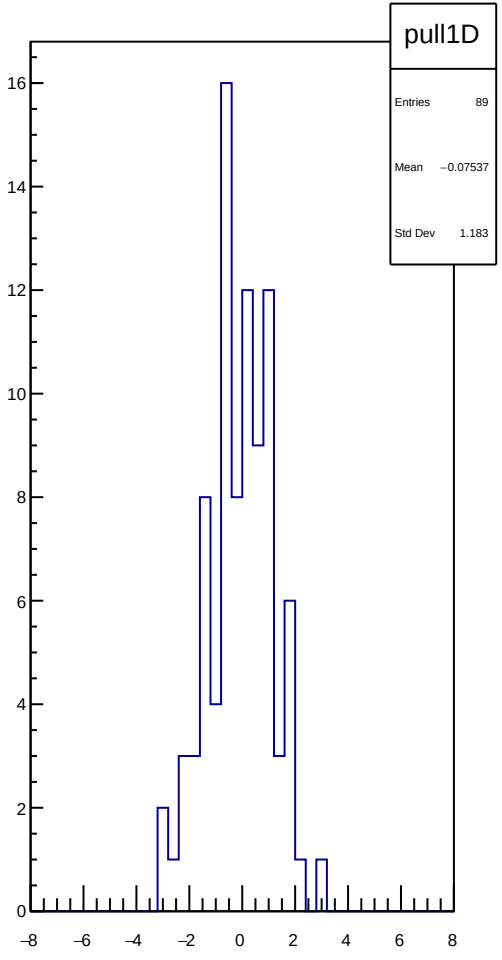

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 134.2 / 88
p0 4.18 ± 0.245
pull
Entries 89
Mean 19.14
Std Dev 0
pull1D
Entries 89
Mean 0.08969
Std Dev 1.225

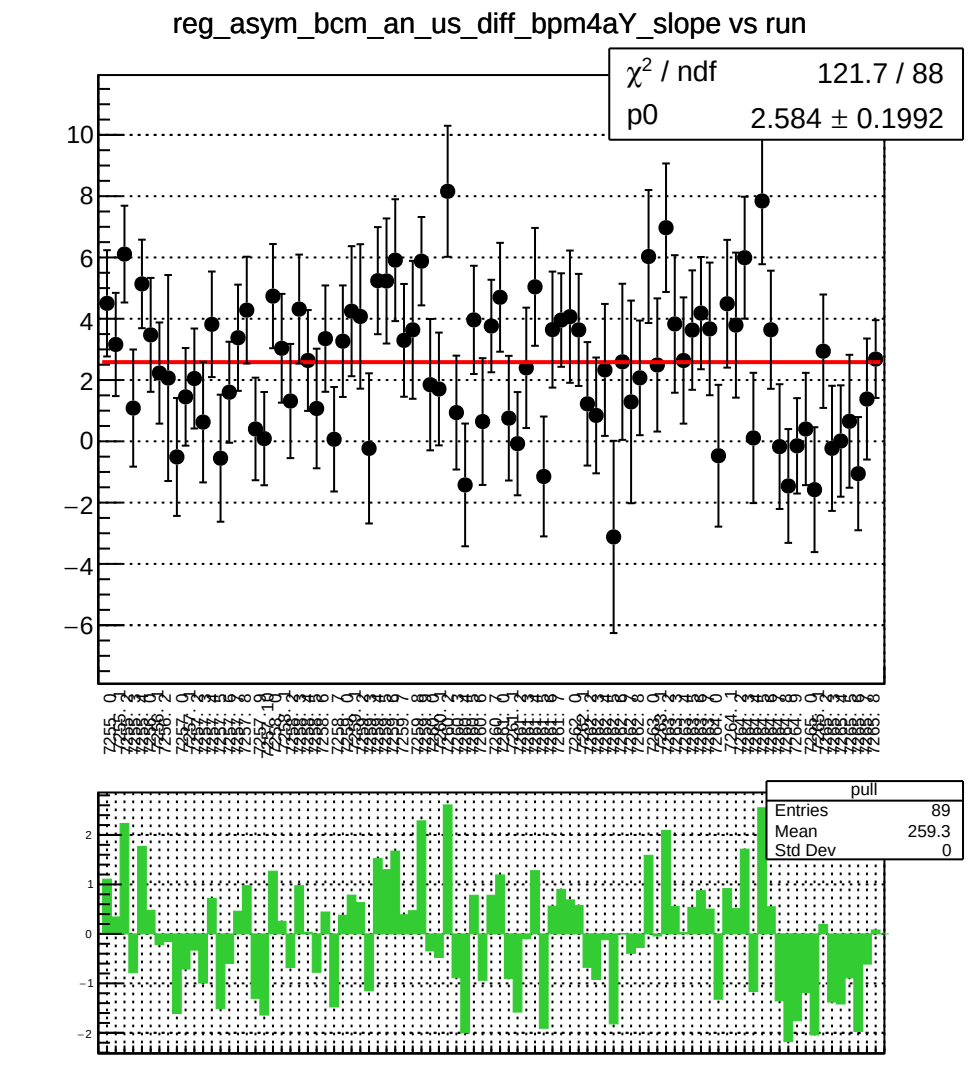

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 128 / 88
p0 −3.303 ± 0.2082
pull
Entries 89
Mean 1113
Std Dev 0

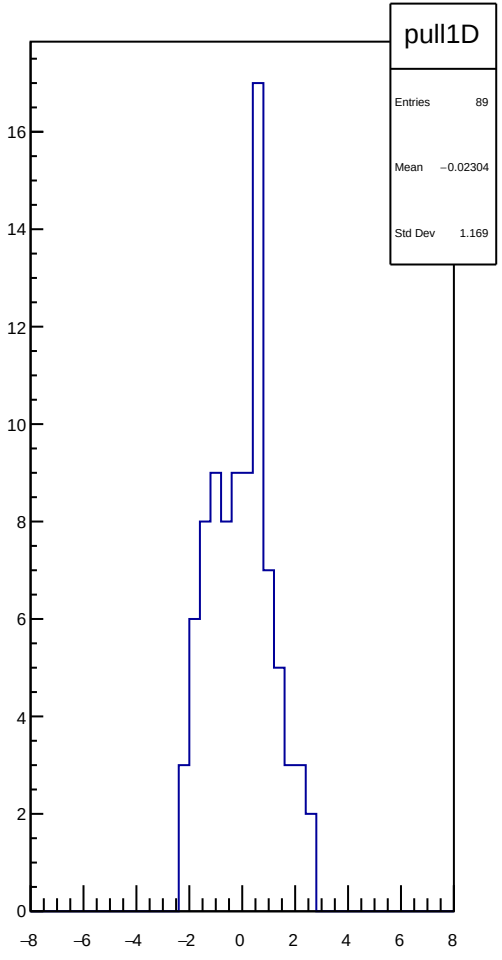

pull1D
Entries 89
Mean 0.0047
Std Dev 1.199

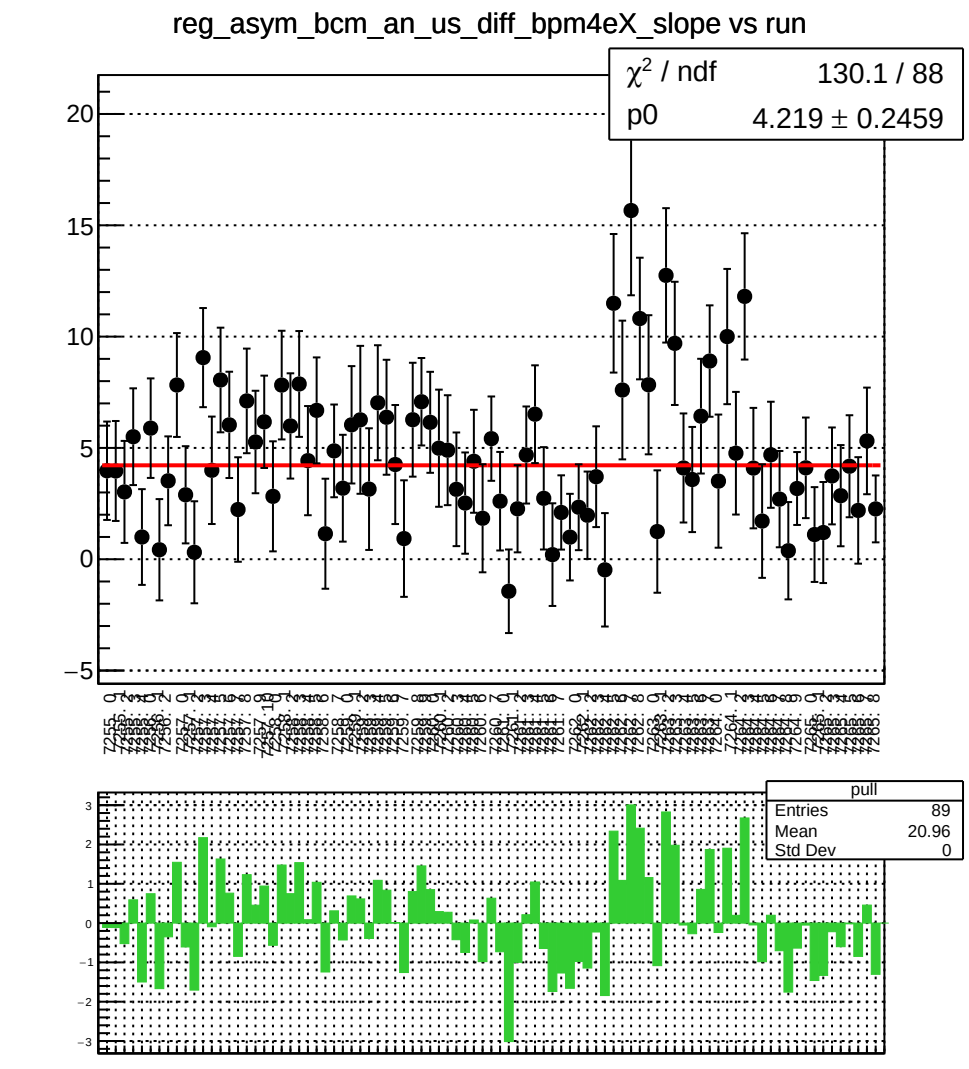

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 99.6 / 88
p0 −0.06979 ± 0.00856
pull
Entries 89
Mean 559.7
Std Dev 0
pull1D
Entries 89
Mean −0.01705
Std Dev 1.058

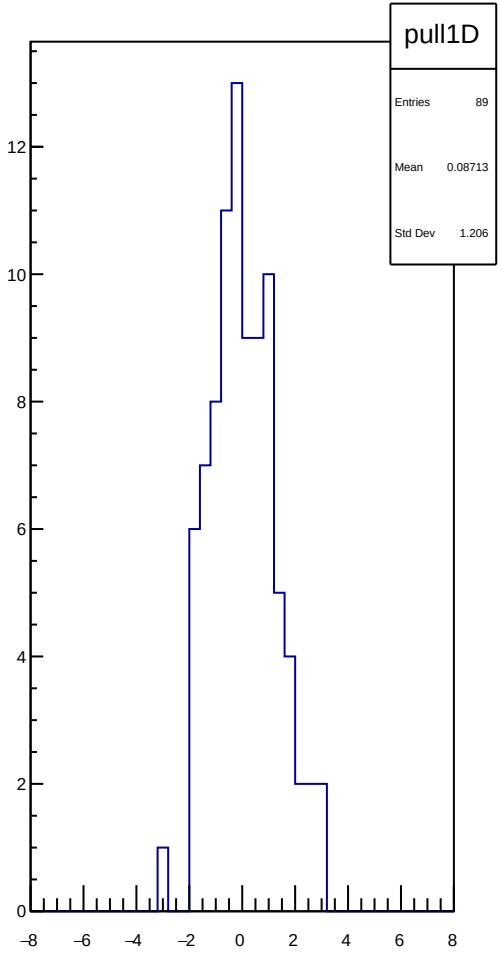

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 125 / 88
p0 −4.219 ± 0.2271
pull
Entries 89
Mean 22.5
Std Dev 0

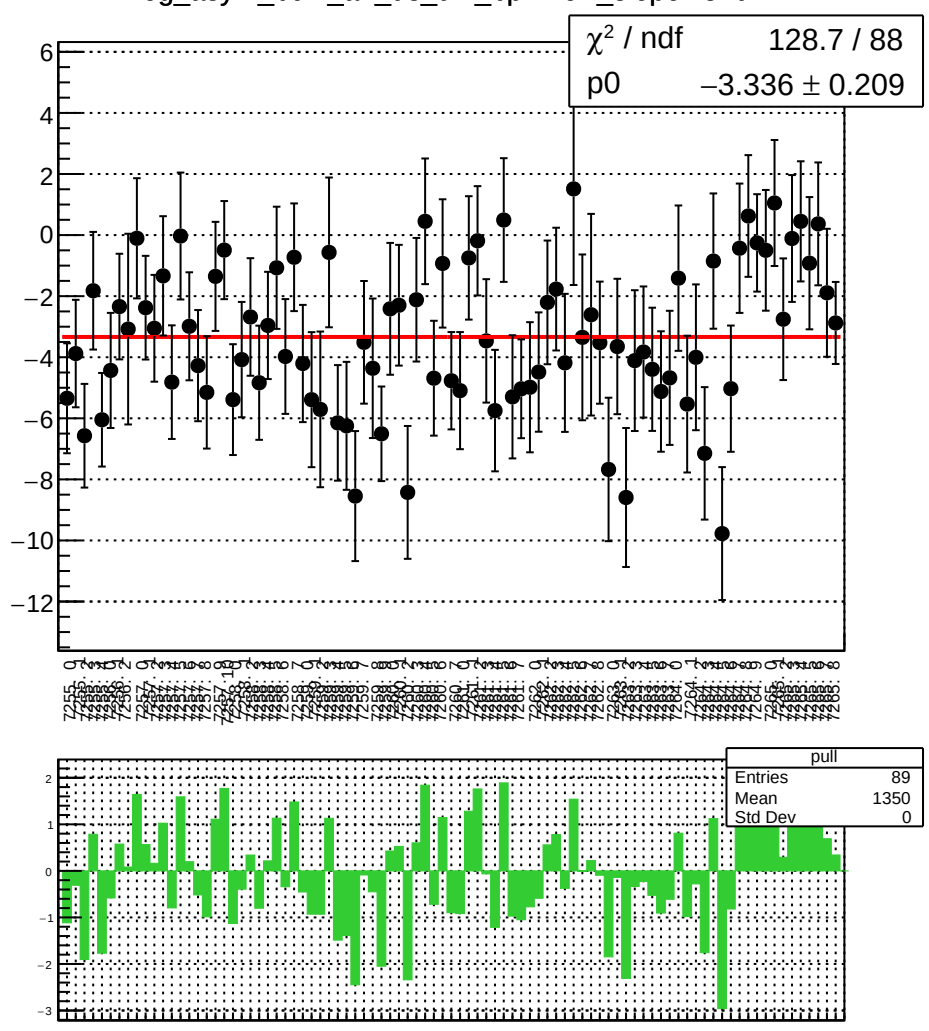

pull1D
Entries 89
Mean −0.07537
Std Dev 1.183

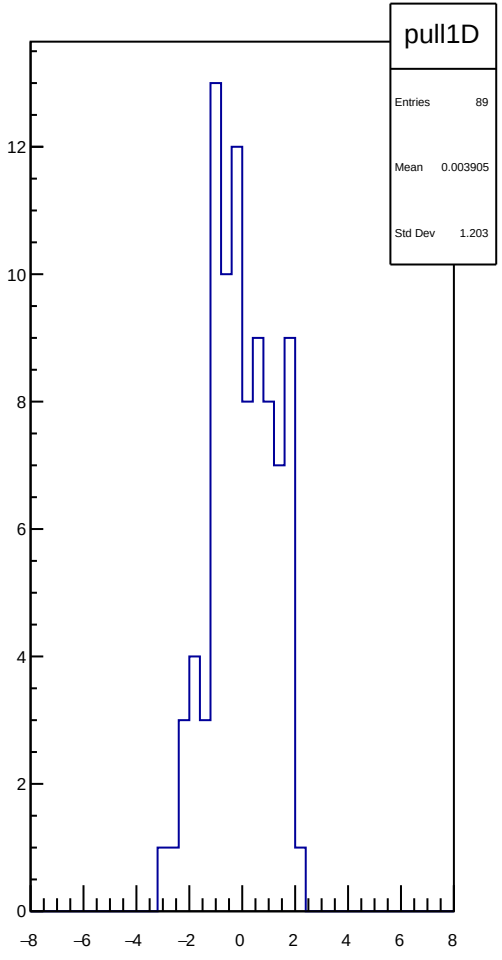

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 121.7 / 88
p0 2.584 ± 0.1992
pull
Entries 89
Mean 259.3
Std Dev 0

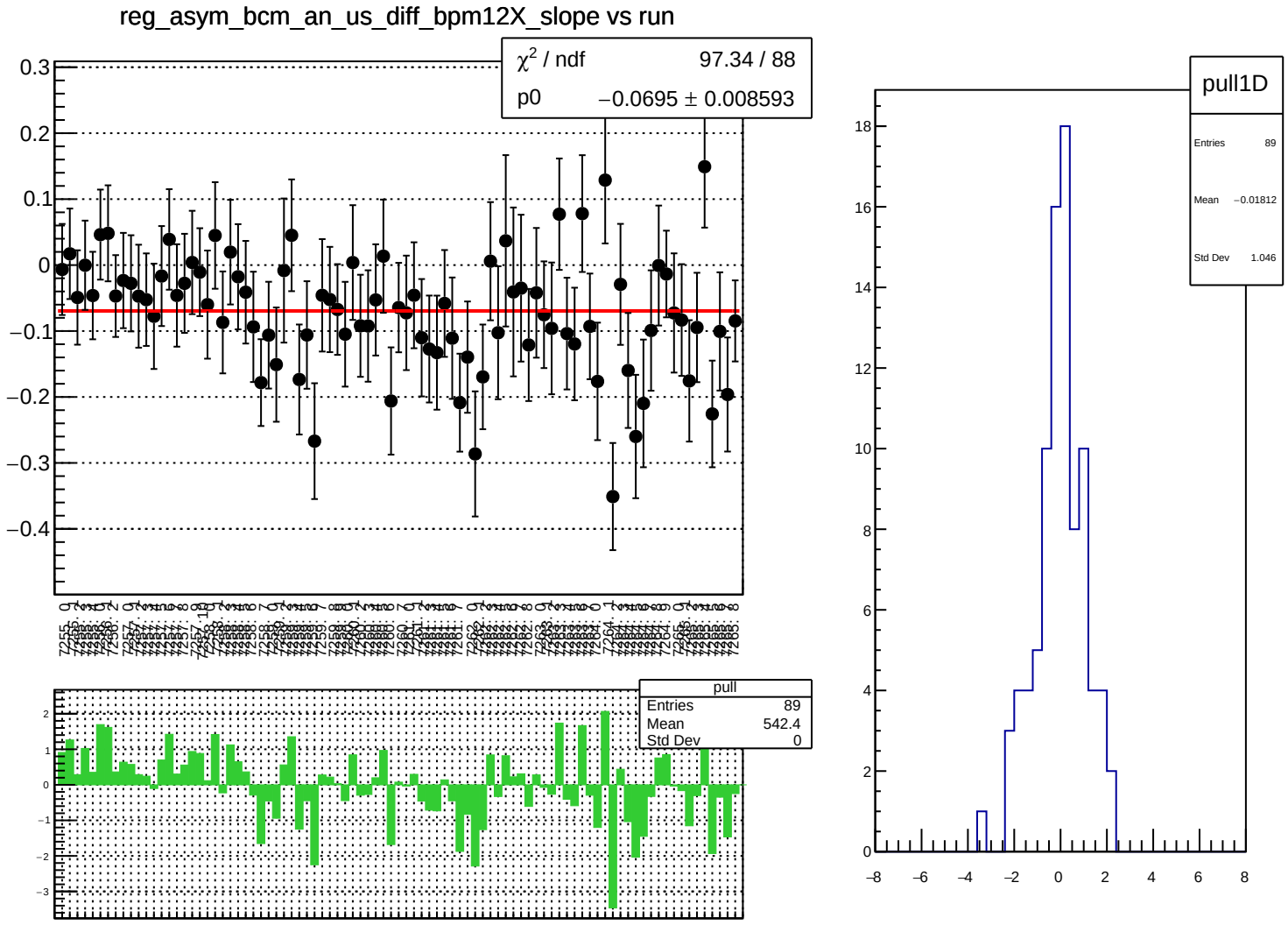

pull1D
Entries 89
Mean −0.02304
Std Dev 1.169

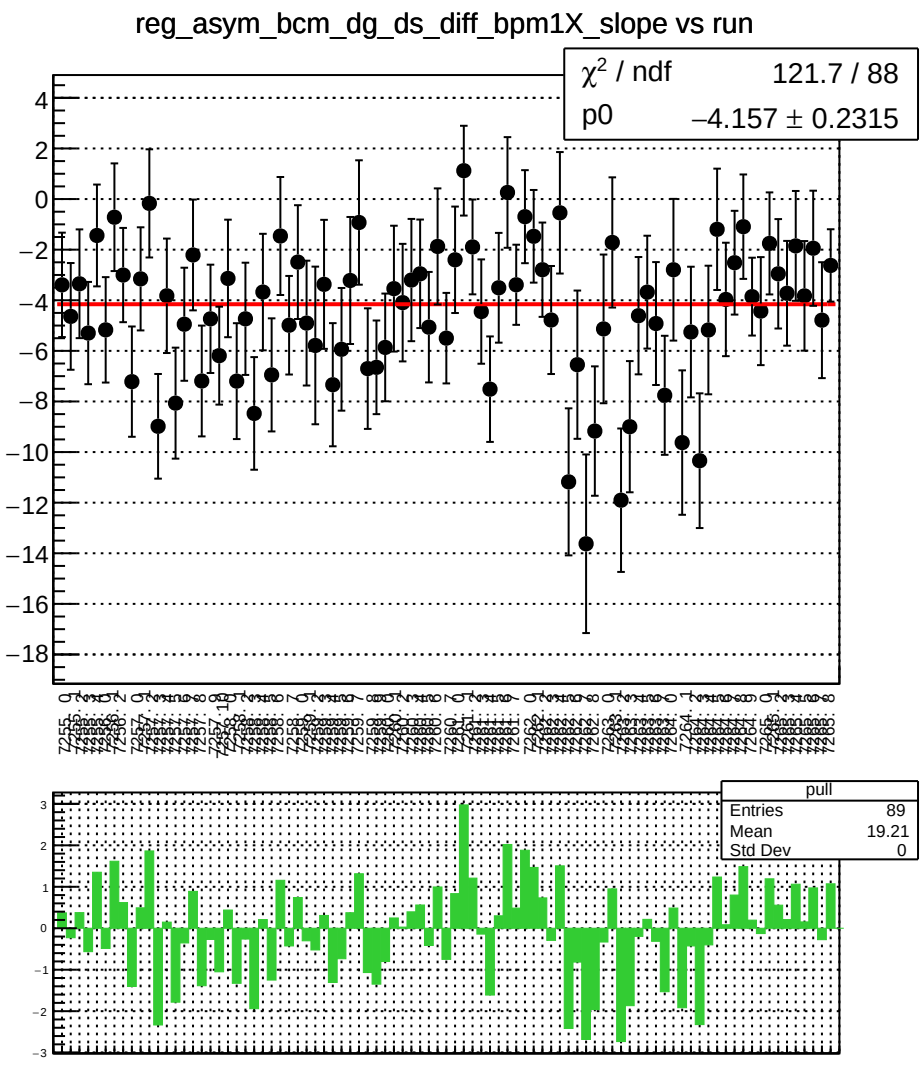

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 130.1 / 88
p0 4.219 ± 0.2459
pull
Entries 89
Mean 20.96
Std Dev 0

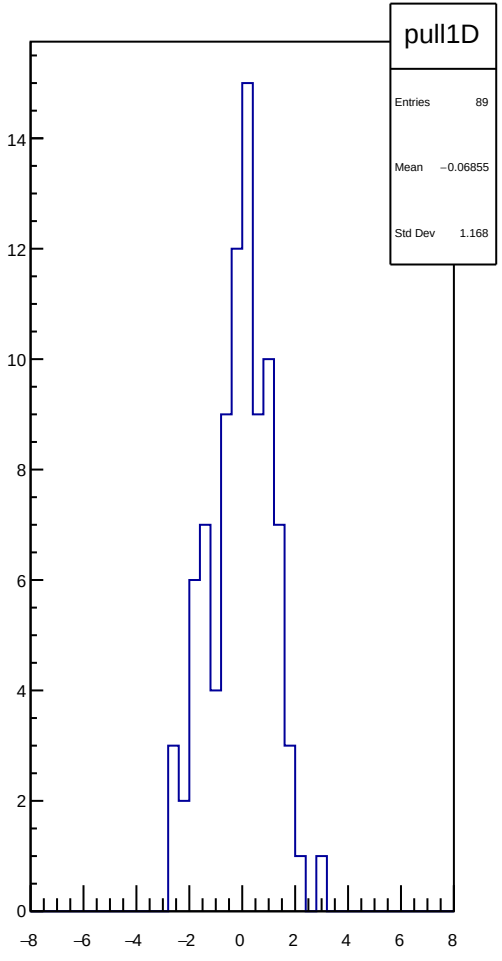

pull1D
Entries 89
Mean 0.08713
Std Dev 1.206

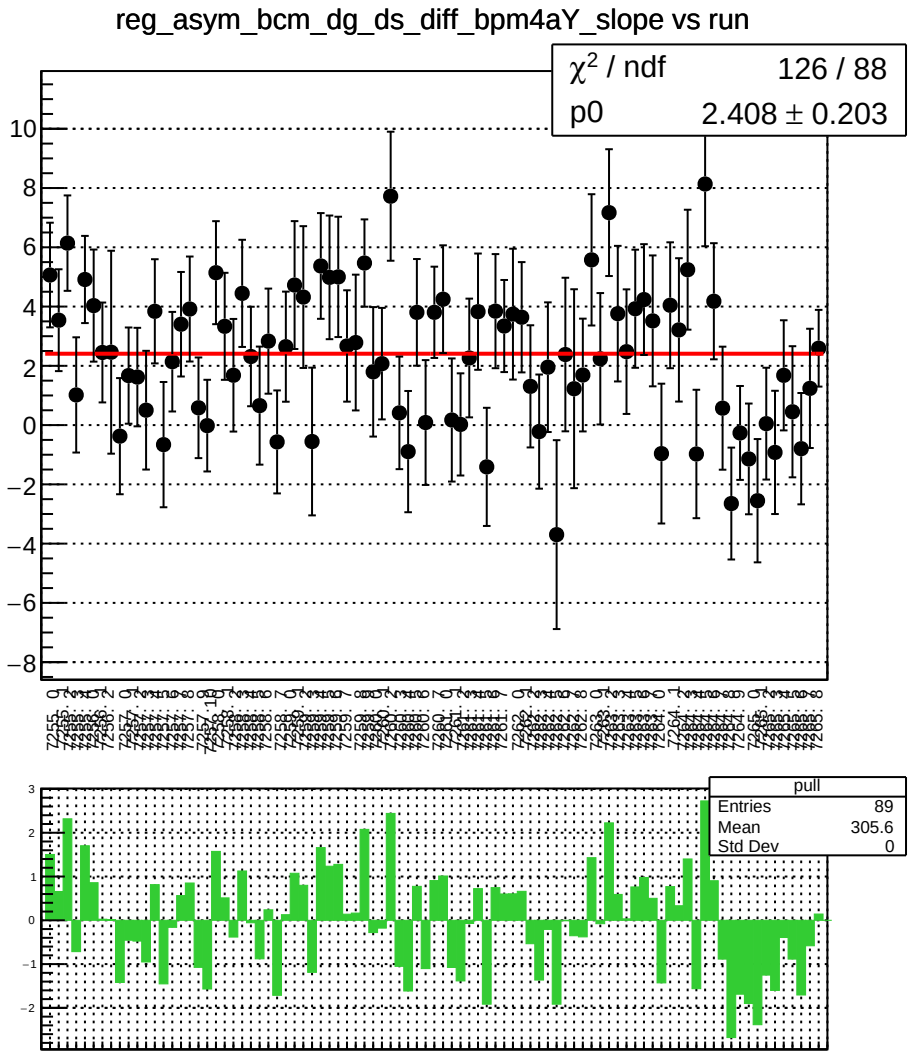

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 128.7 / 88
p0 −3.336 ± 0.209
pull
Entries 89
Mean 1350
Std Dev 0

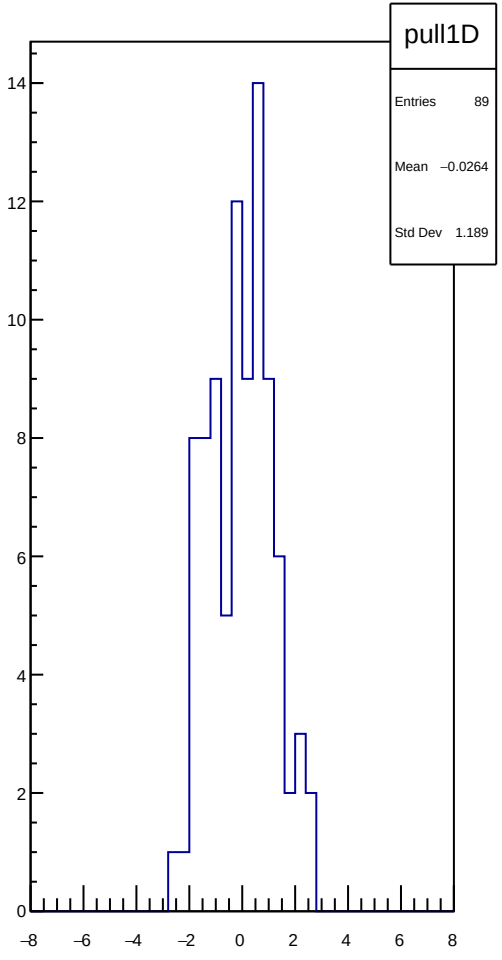

pull1D
Entries 89
Mean 0.003905
Std Dev 1.203

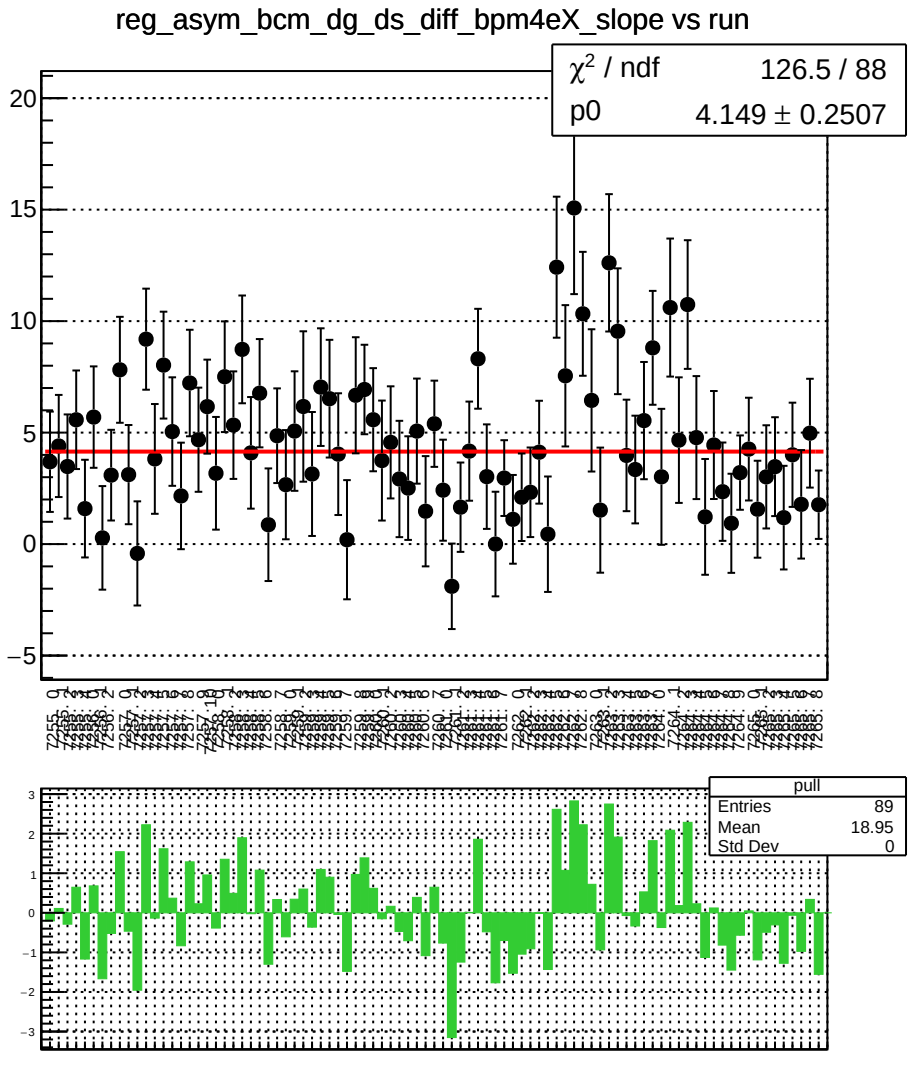

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 97.34 / 88
p0 −0.0695 ± 0.008593
pull
Entries 89
Mean 542.4
Std Dev 0
pull1D
Entries 89
Mean −0.01812
Std Dev 1.046

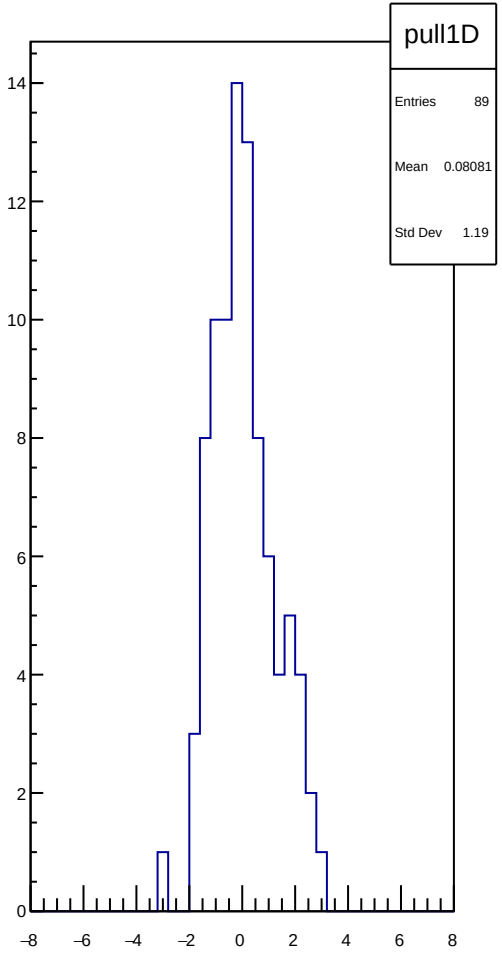

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 121.7 / 88
p0 −4.157 ± 0.2315
pull
Entries 89
Mean 19.21
Std Dev 0

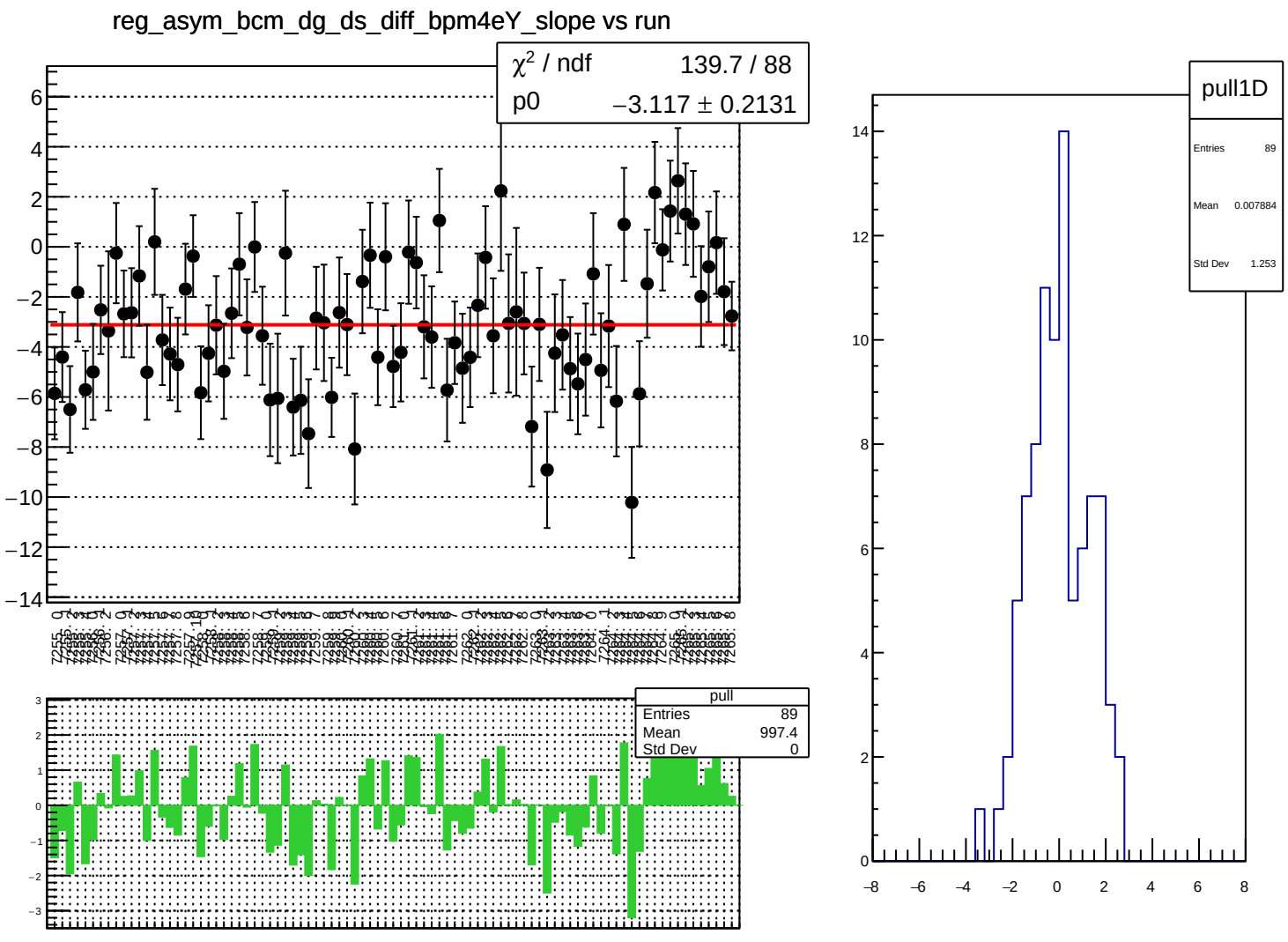

pull1D
Entries 89
Mean −0.06855
Std Dev 1.168

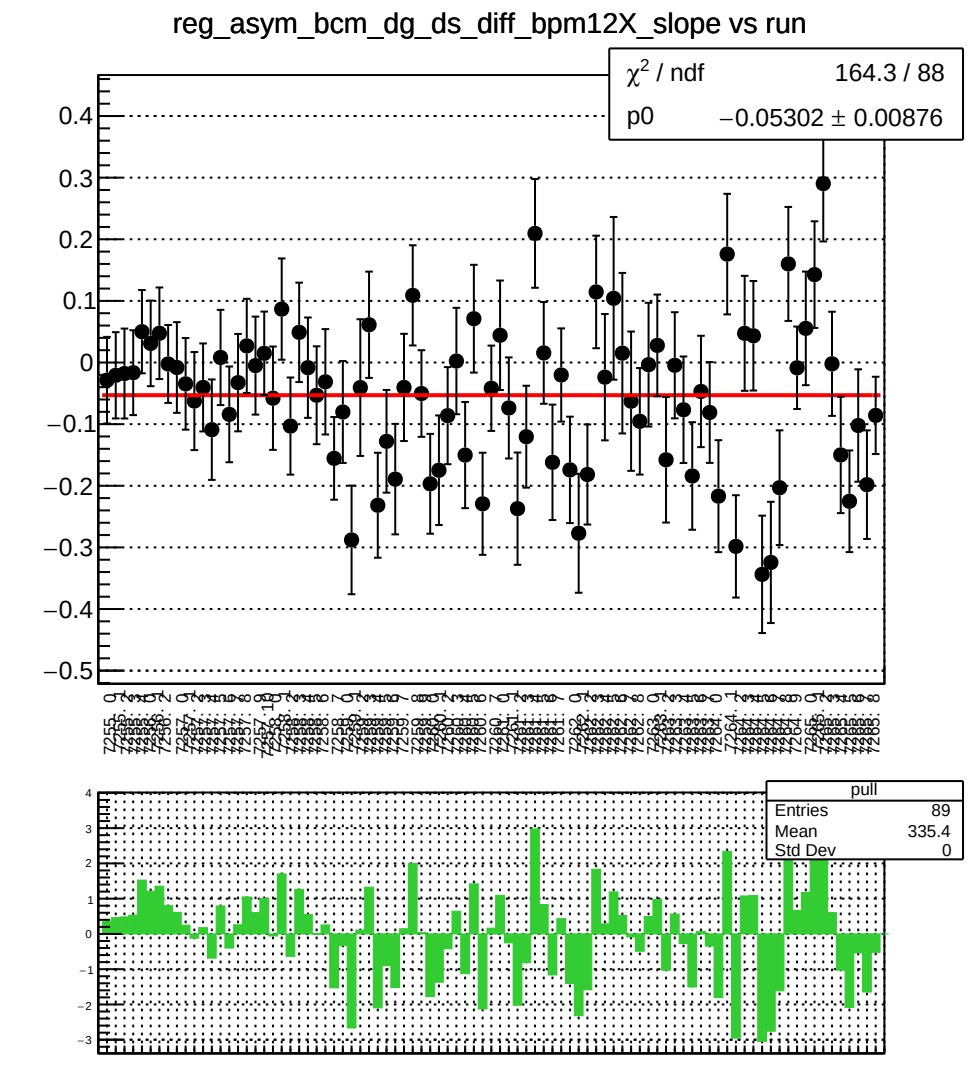

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 126 / 88
p0 2.408 ± 0.203
pull
Entries 89
Mean 305.6
Std Dev 0

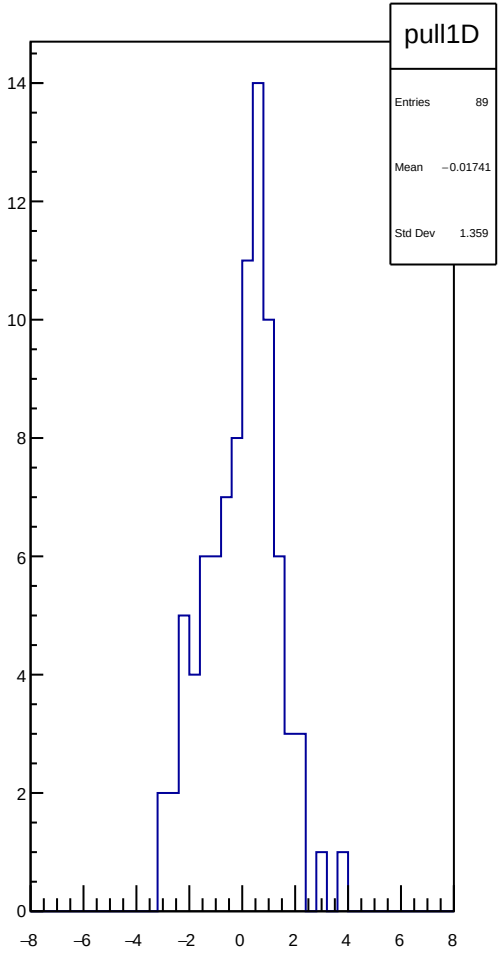

pull1D
Entries 89
Mean −0.0264
Std Dev 1.189

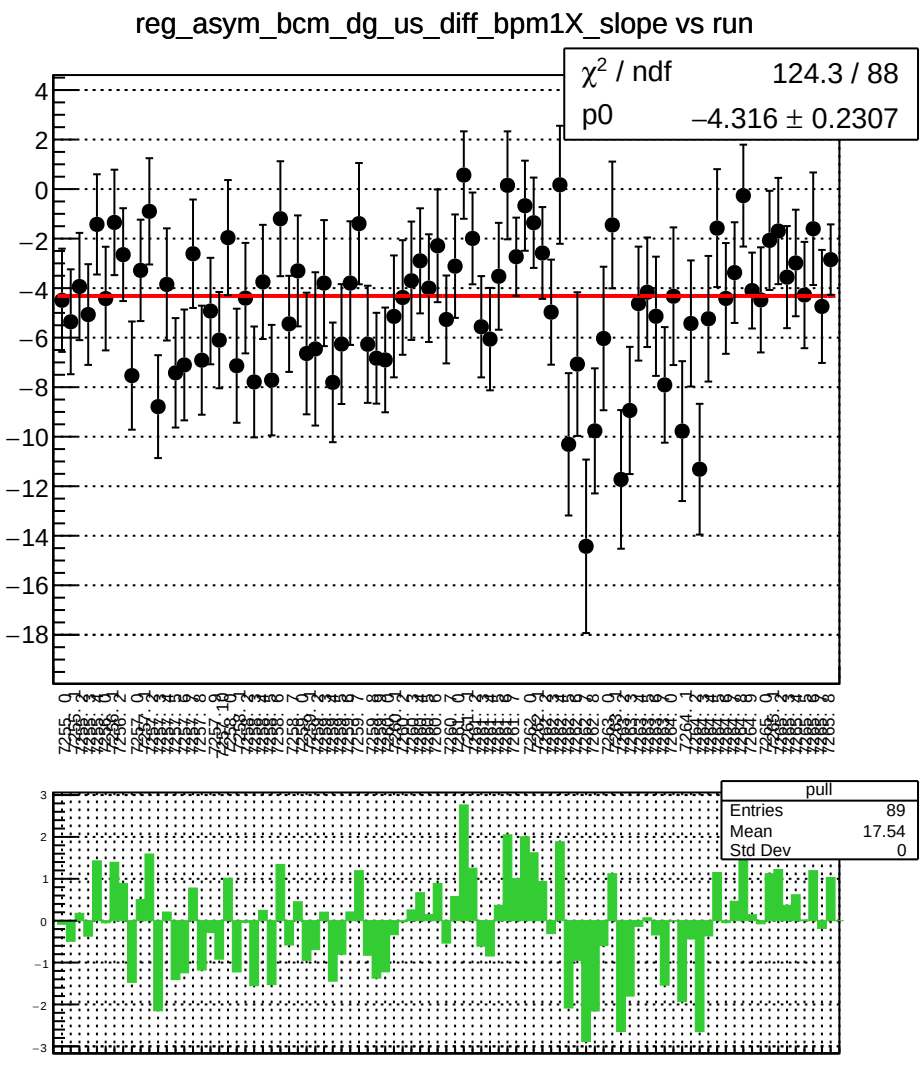

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 126.5 / 88
p0 4.149 ± 0.2507
pull
Entries 89
Mean 18.95
Std Dev 0

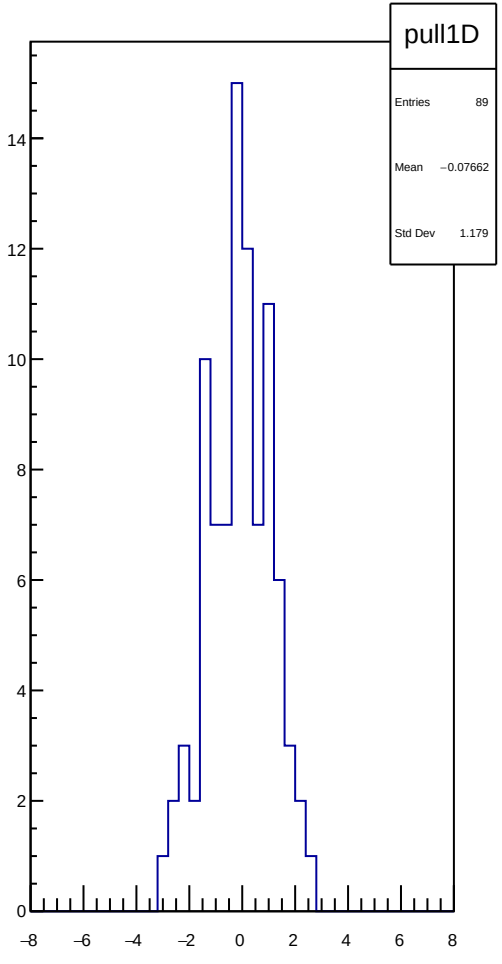

pull1D
Entries 89
Mean 0.08081
Std Dev 1.19

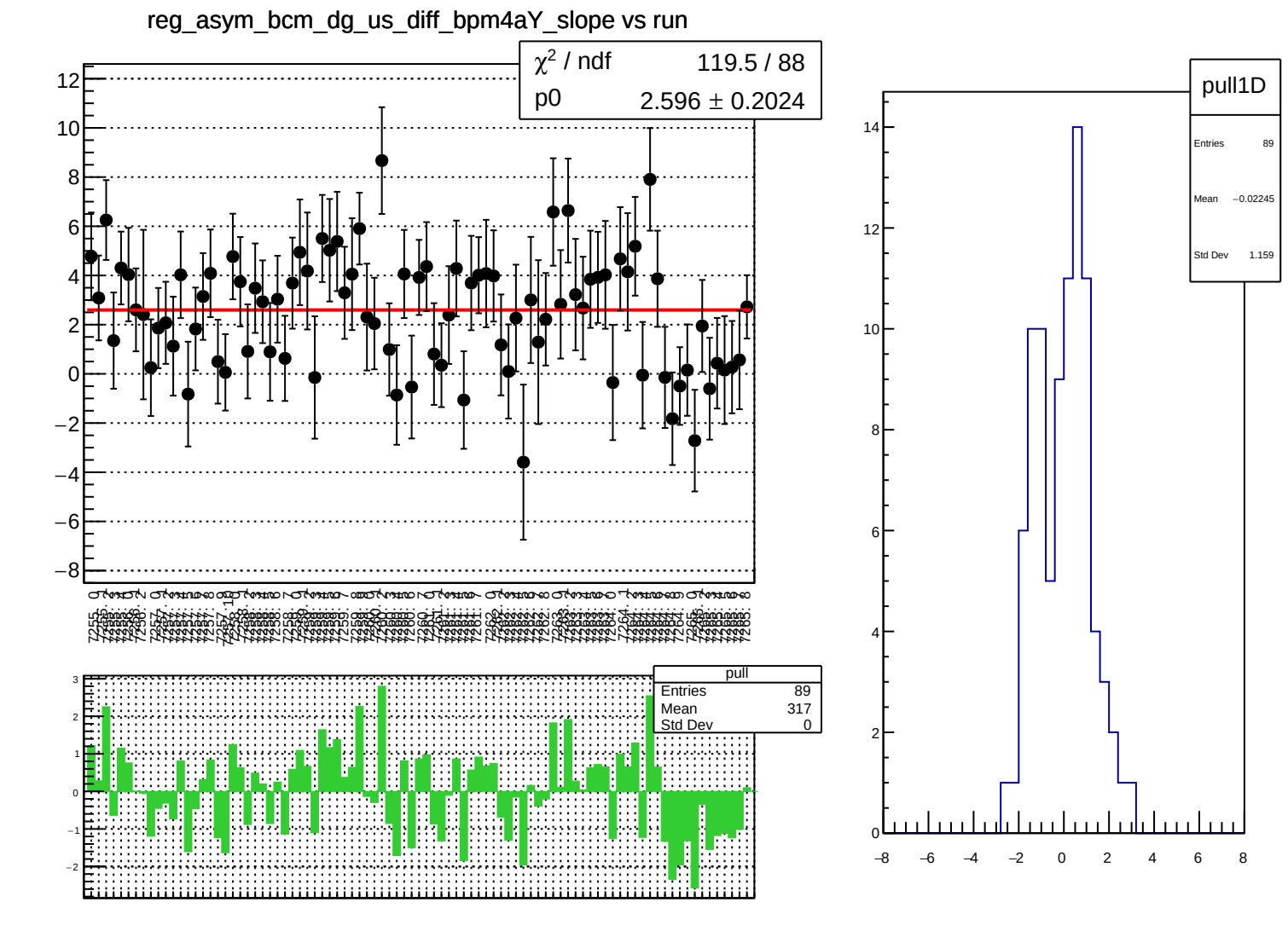

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 139.7 / 88
p0 −3.117 ± 0.2131
pull
Entries 89
Mean 997.4
Std Dev 0
pull1D
Entries 89
Mean 0.007884
Std Dev 1.253

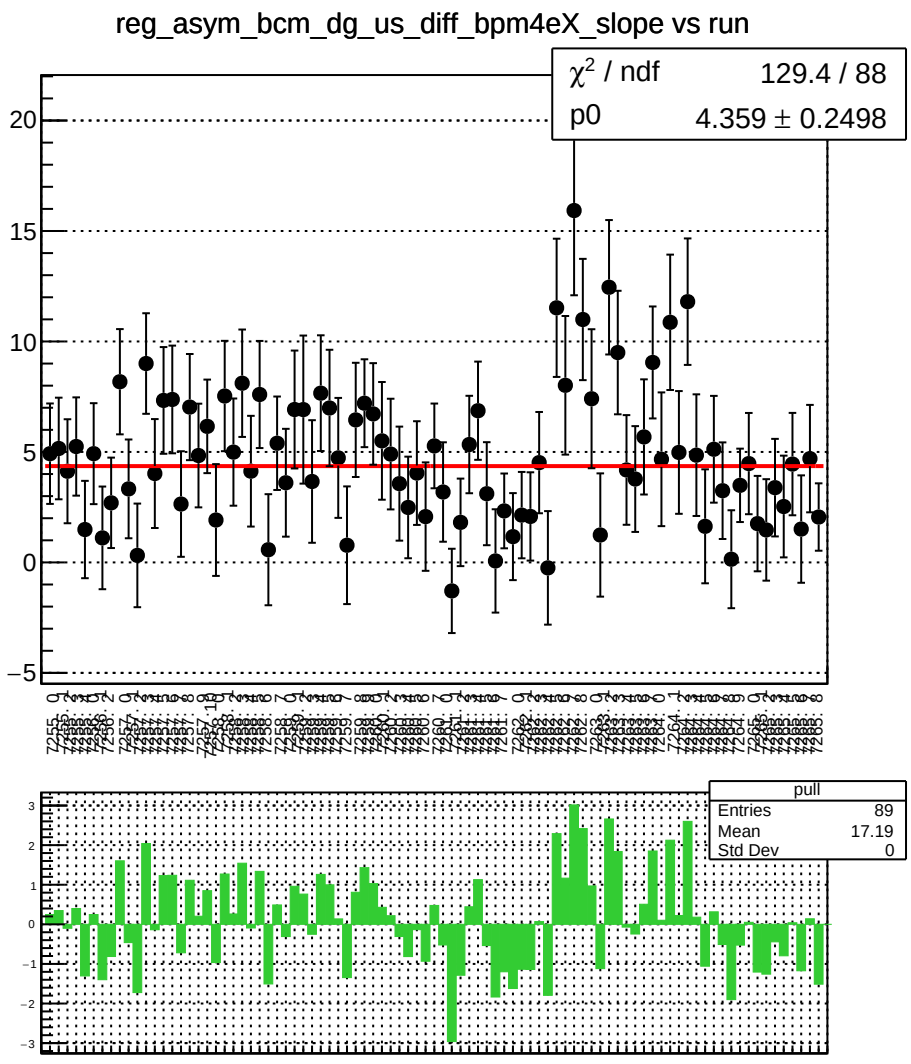

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 164.3 / 88
p0 −0.05302 ± 0.00876
pull
Entries 89
Mean 335.4
Std Dev 0

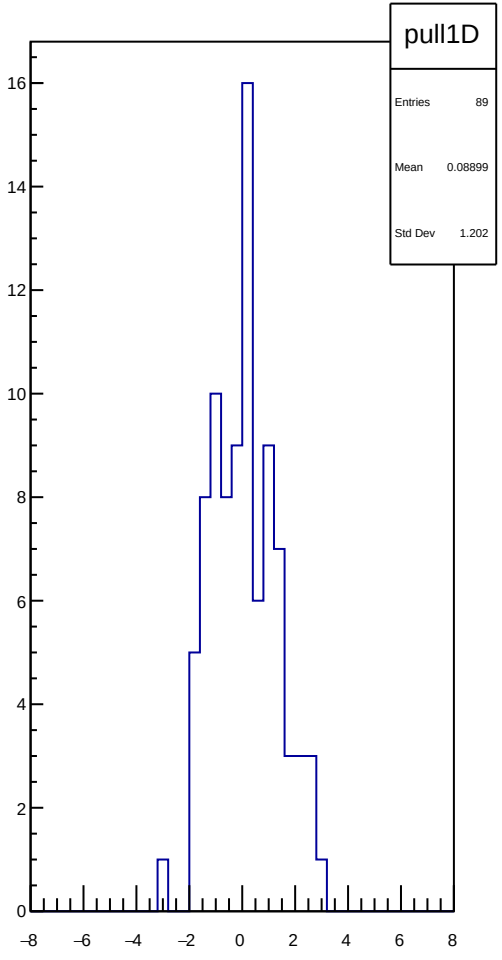

pull1D
Entries 89
Mean −0.01741
Std Dev 1.359

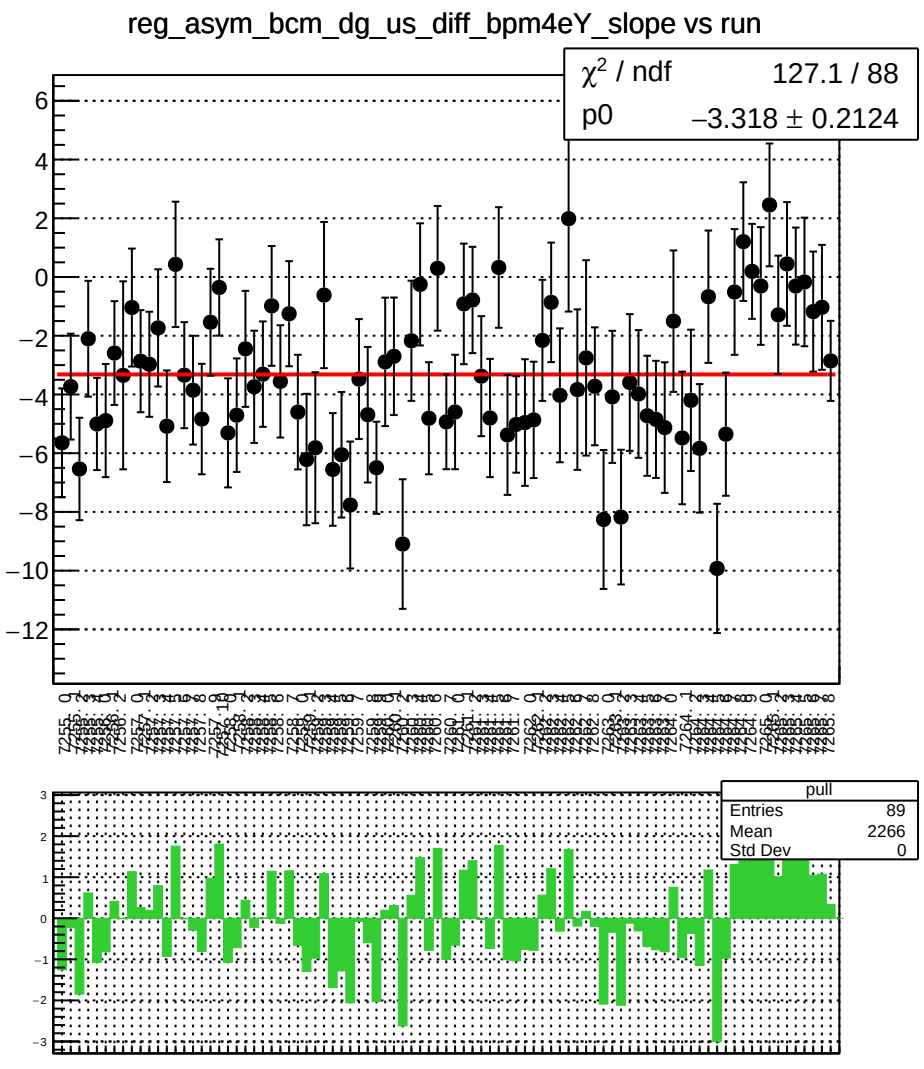

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 124.3 / 88
p0 −4.316 ± 0.2307
pull
Entries 89
Mean 17.54
Std Dev 0

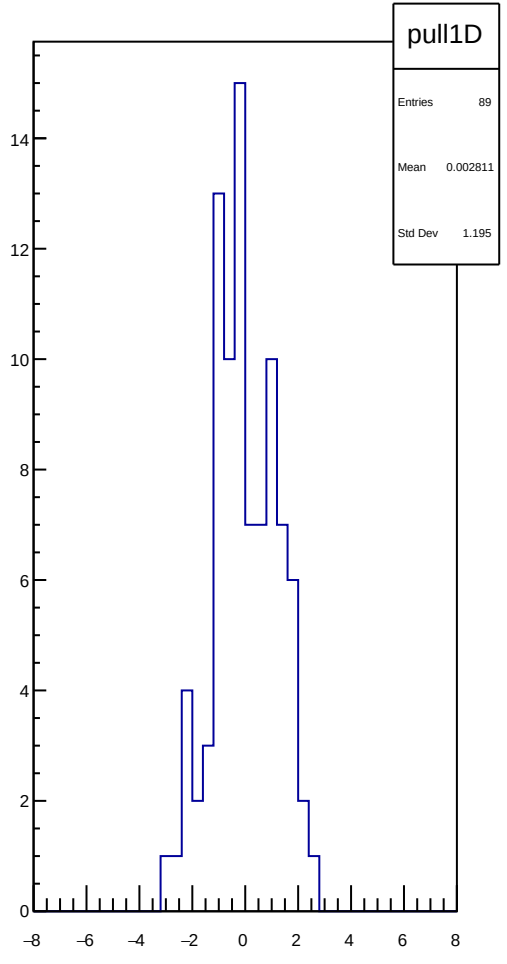

pull1D
Entries 89
Mean −0.07662
Std Dev 1.179

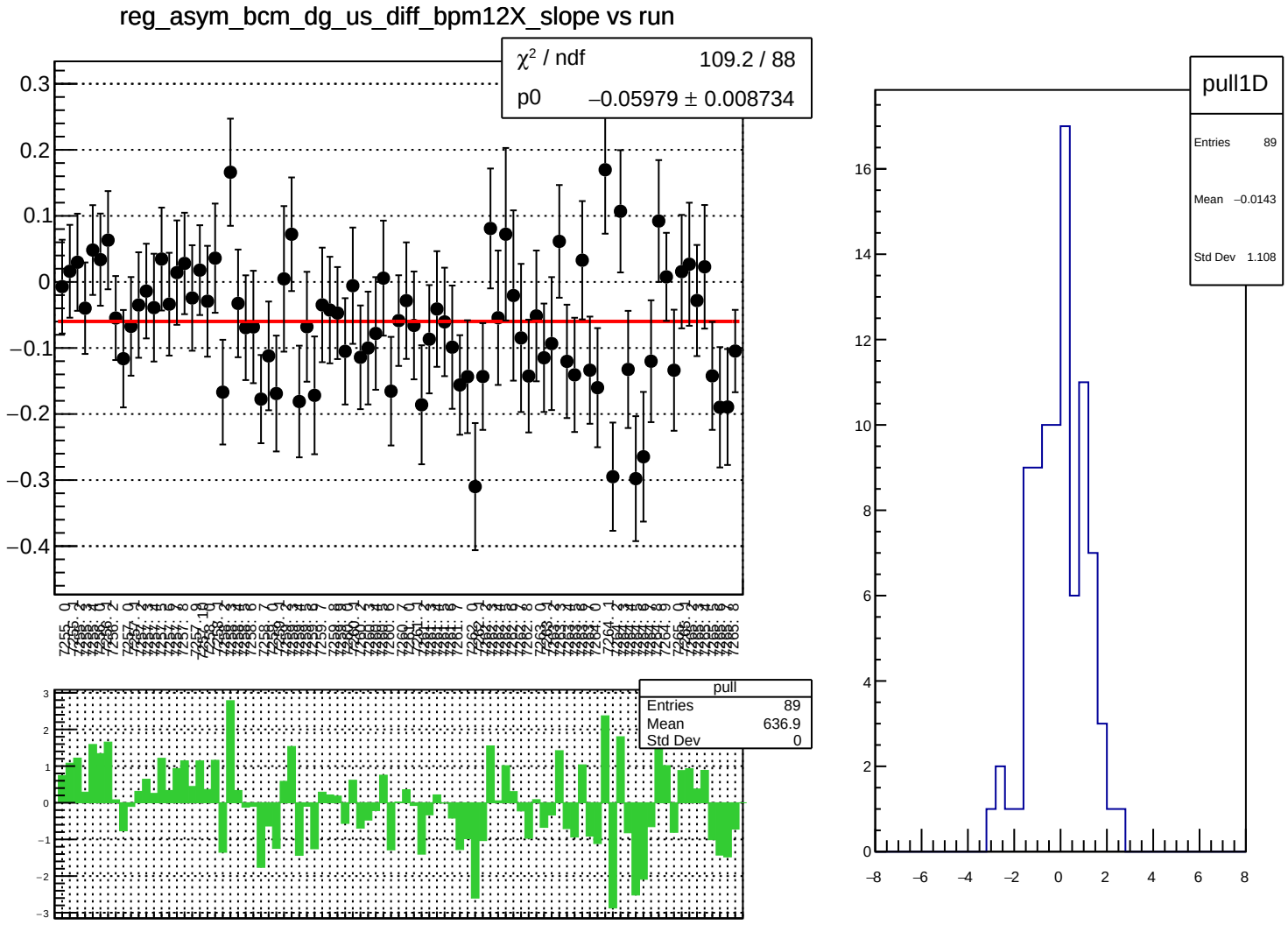

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 119.5 / 88
p0 2.596 ± 0.2024
pull
Entries 89
Mean 317
Std Dev 0
pull1D
Entries 89
Mean −0.02245
Std Dev 1.159

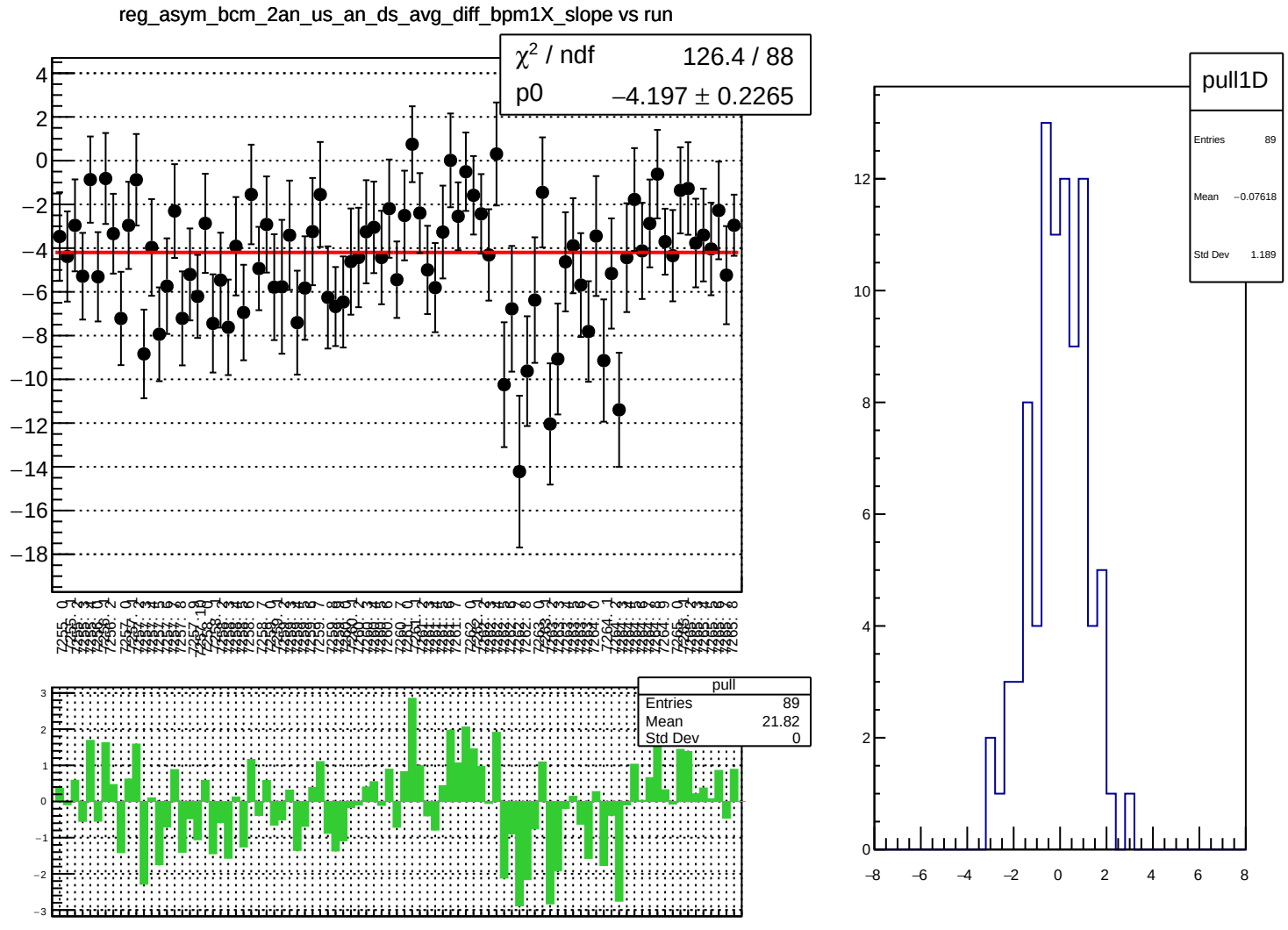

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 129.4 / 88
p0 4.359 ± 0.2498
pull
Entries 89
Mean 17.19
Std Dev 0

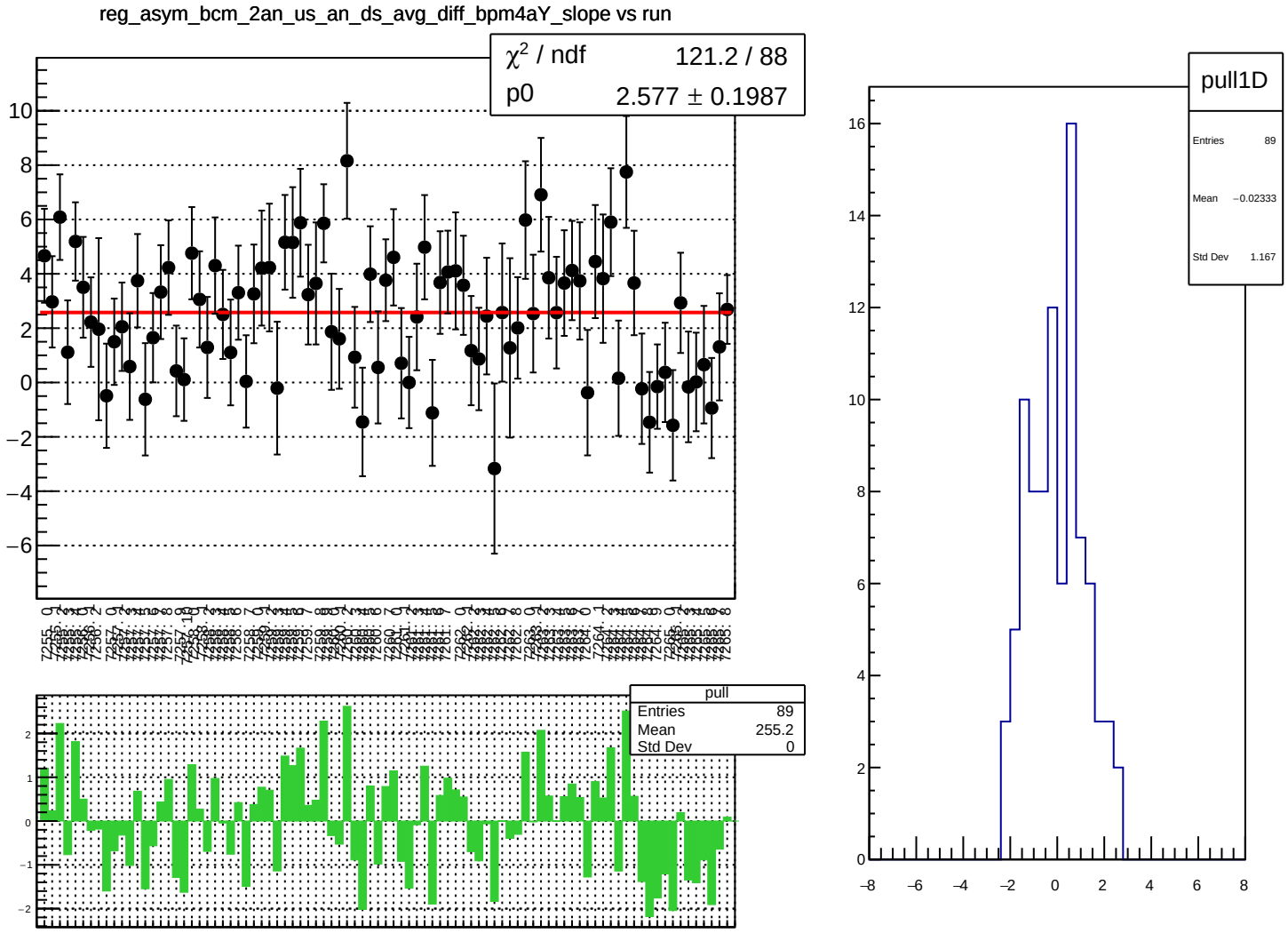

pull1D
Entries 89
Mean 0.08899
Std Dev 1.202

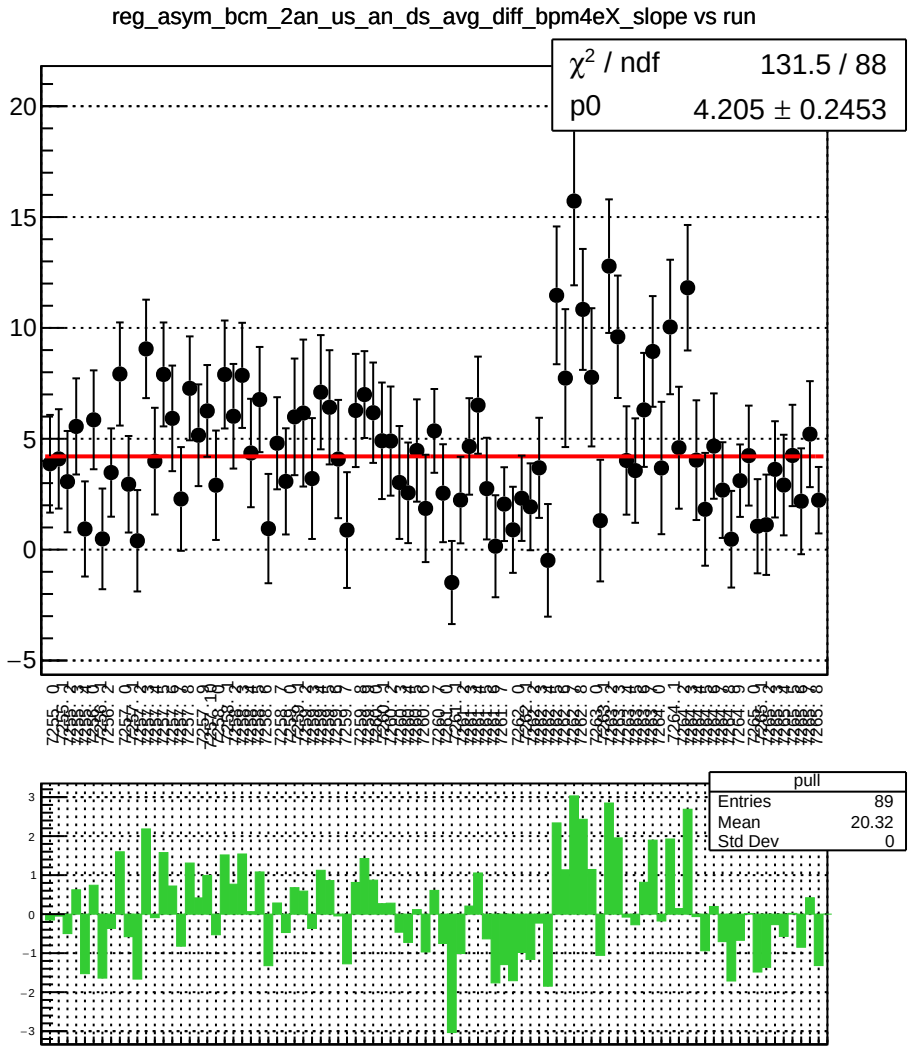

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 127.1 / 88
p0 −3.318 ± 0.2124
pull
Entries 89
Mean 2266
Std Dev 0

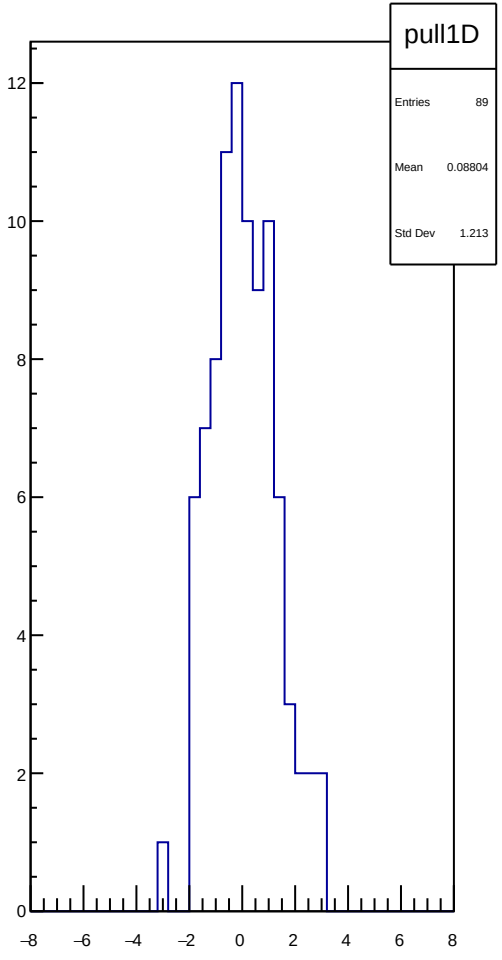

pull1D
Entries 89
Mean 0.002811
Std Dev 1.195

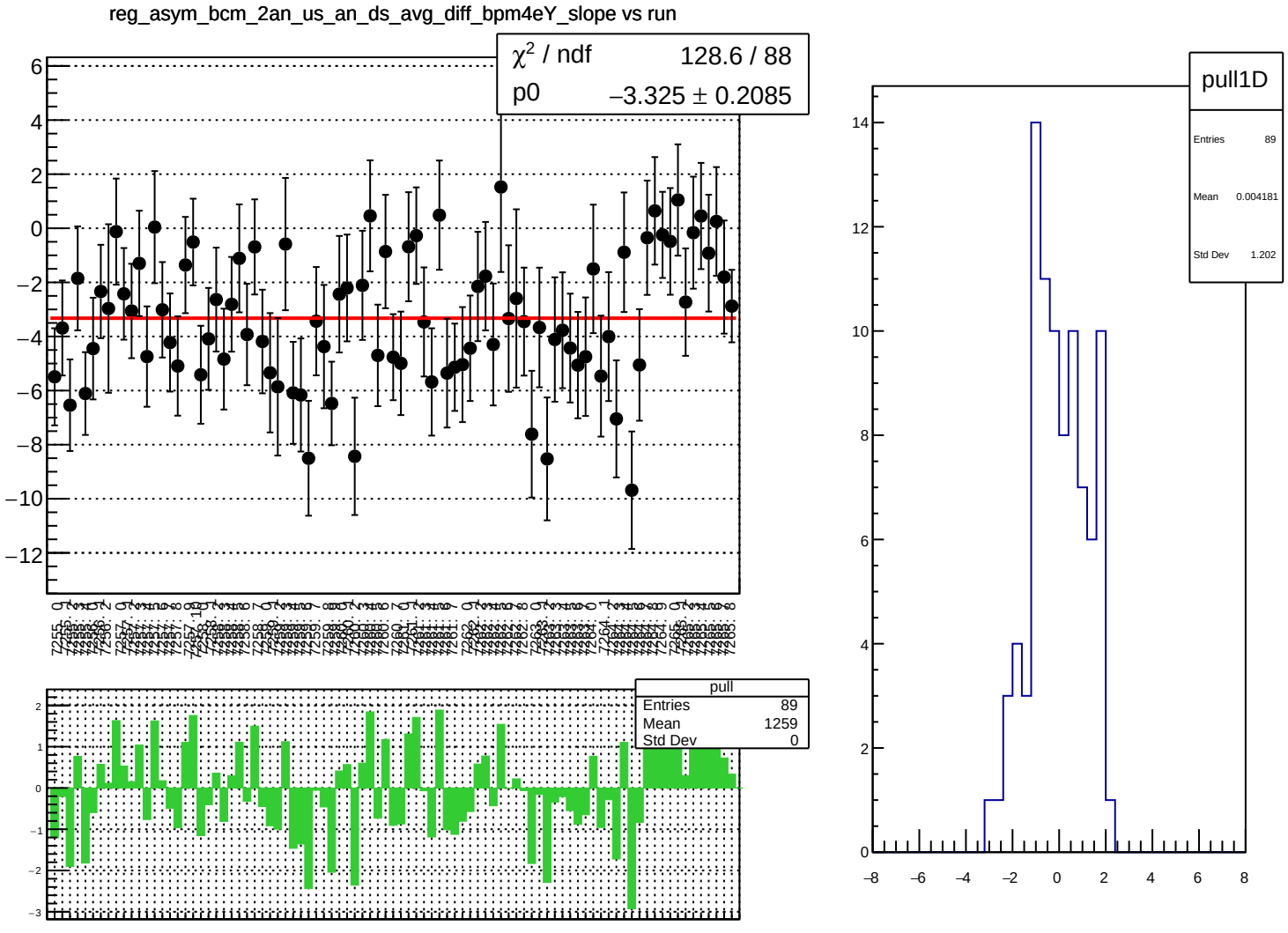

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 109.2 / 88
p0 −0.05979 ± 0.008734
pull
Entries 89
Mean 636.9
Std Dev 0
pull1D
Entries 89
Mean −0.0143
Std Dev 1.108

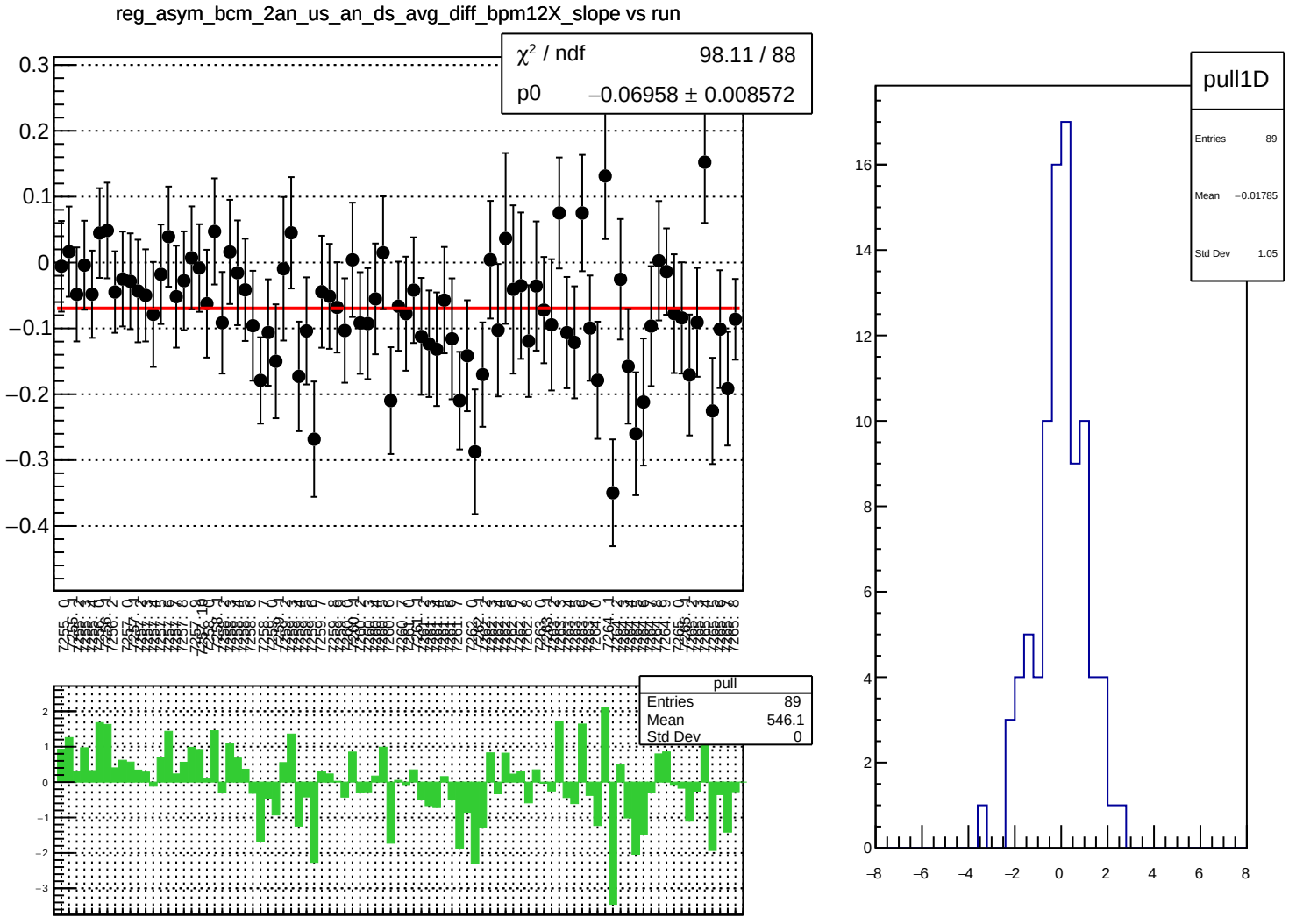

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 126.4 / 88
p0 −4.197 ± 0.2265
pull
Entries 89
Mean 21.82
Std Dev 0
pull1D
Entries 89
Mean −0.07618
Std Dev 1.189

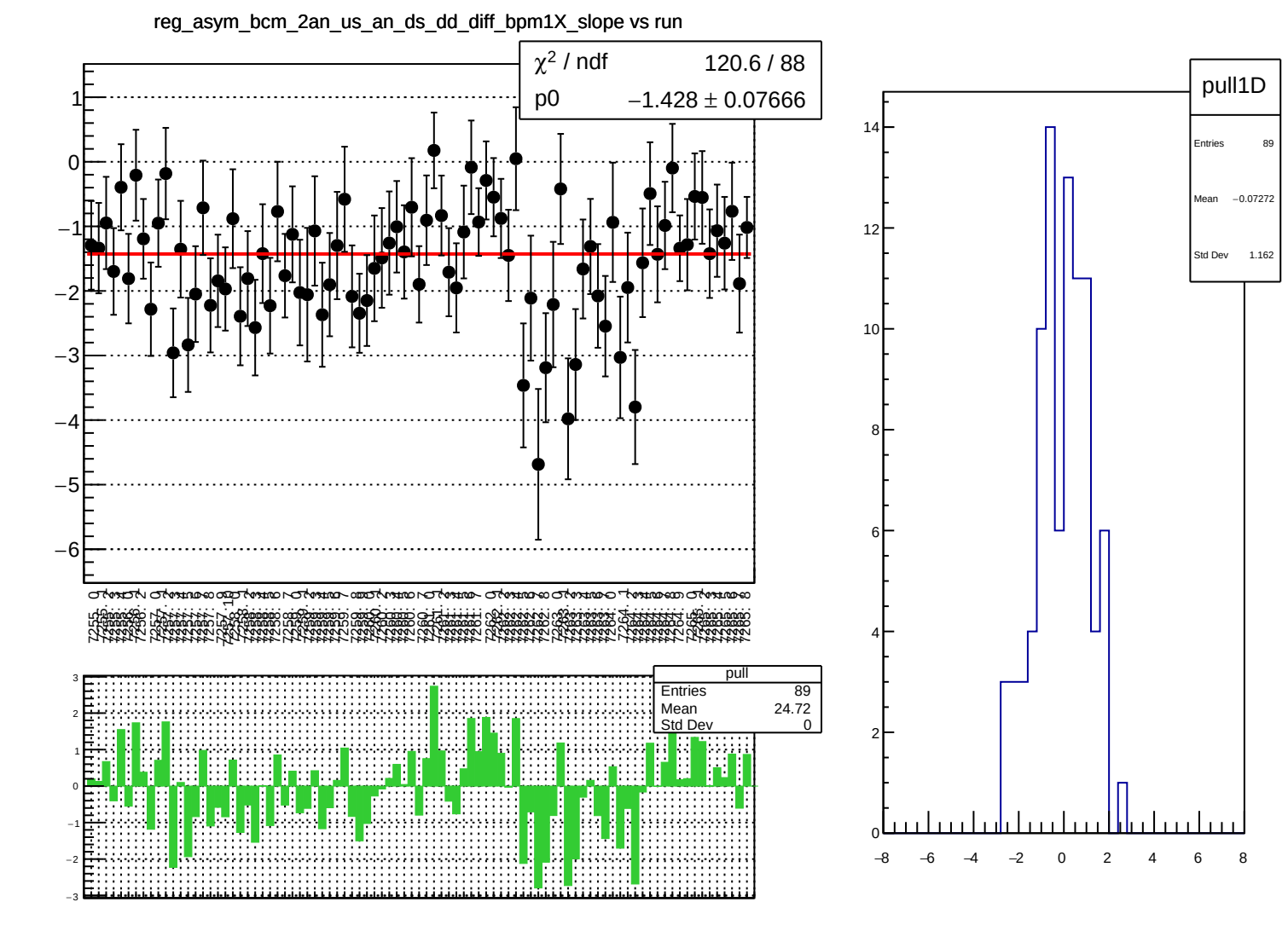

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 121.2 / 88
p0 2.577 ± 0.1987
pull
Entries 89
Mean 255.2
Std Dev 0
pull1D
Entries 89
Mean −0.02333
Std Dev 1.167

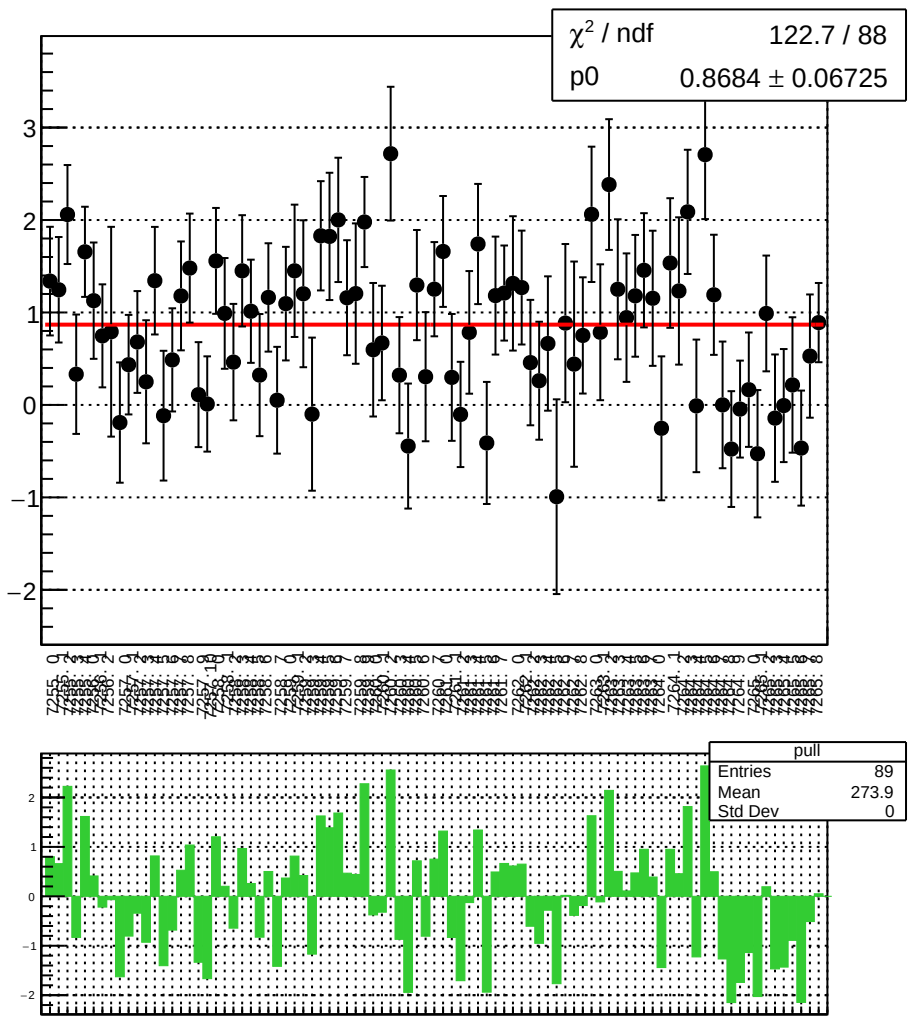

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 131.5 / 88
p0 4.205 ± 0.2453
pull
Entries 89
Mean 20.32
Std Dev 0

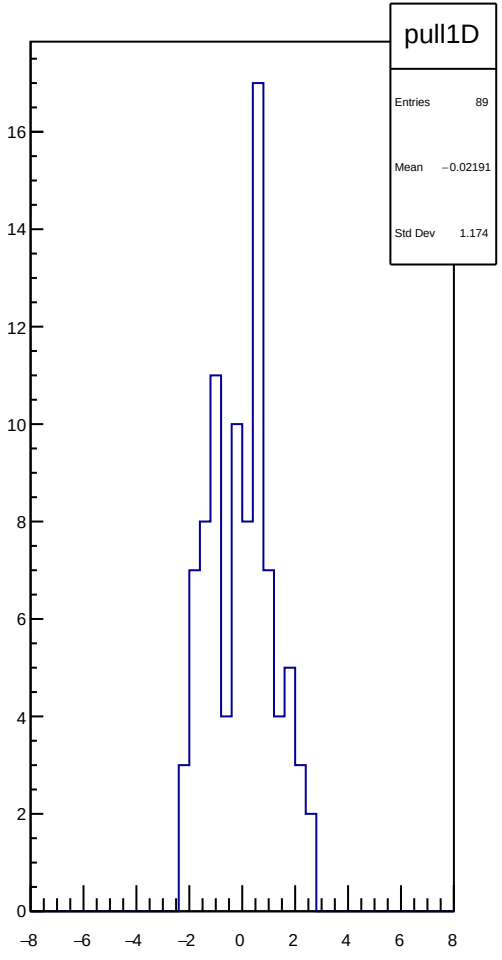

pull1D
Entries 89
Mean 0.08804
Std Dev 1.213

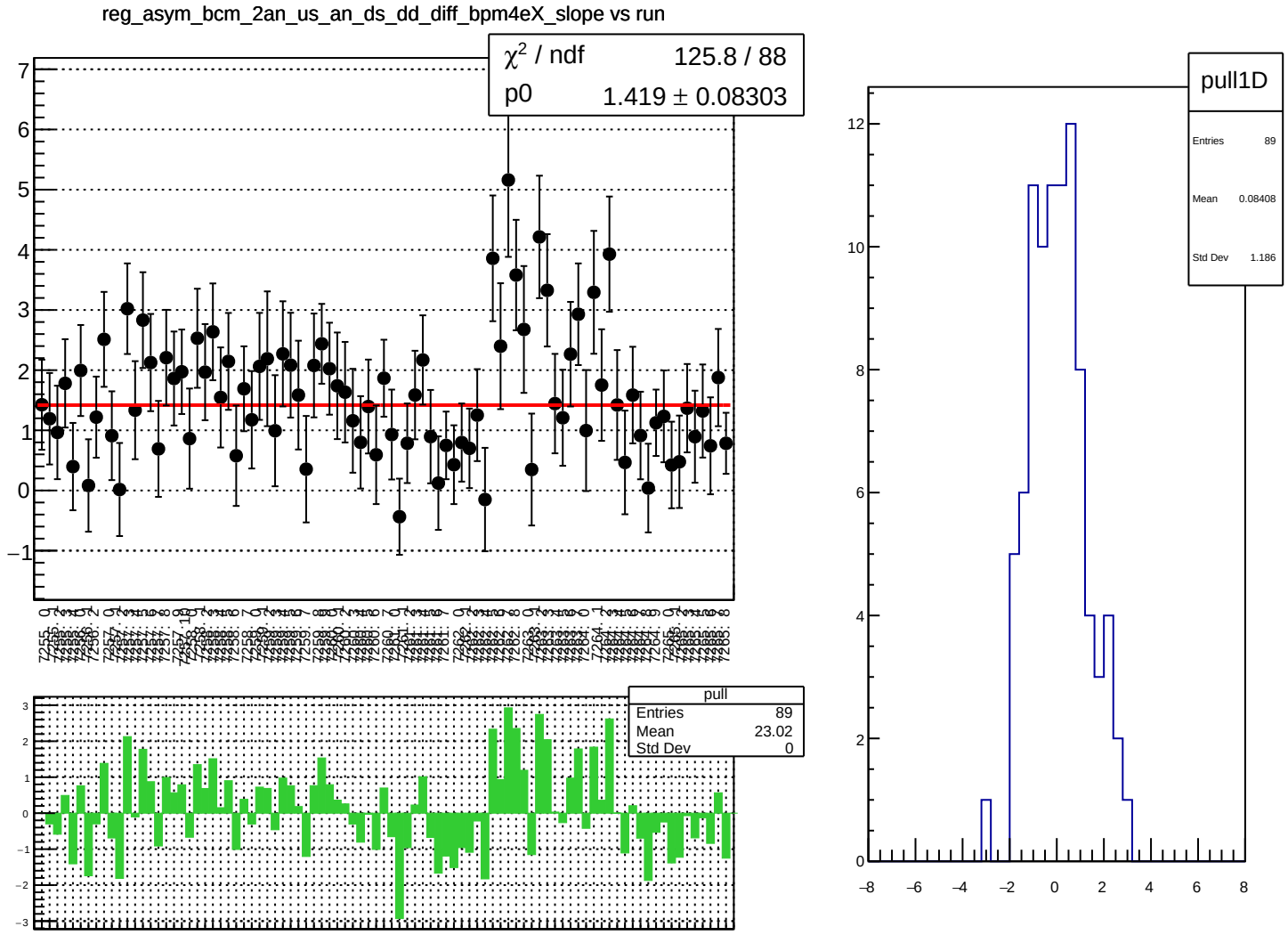

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 128.6 / 88
p0 −3.325 ± 0.2085
pull
Entries 89
Mean 1259
Std Dev 0
pull1D
Entries 89
Mean 0.004181
Std Dev 1.202

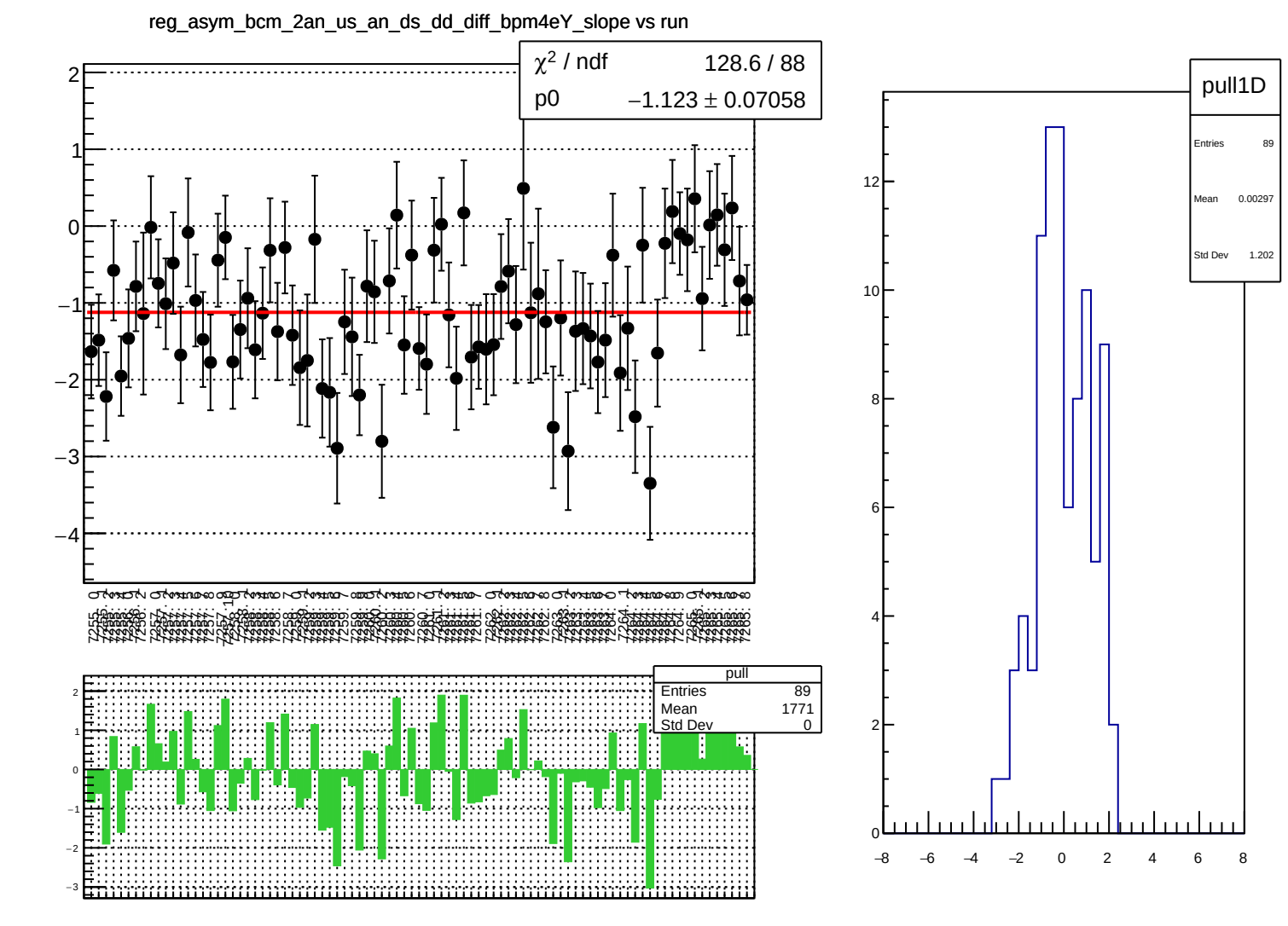

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 98.11 / 88
p0 −0.06958 ± 0.008572
pull
Entries 89
Mean 546.1
Std Dev 0
pull1D
Entries 89
Mean −0.01785
Std Dev 1.05

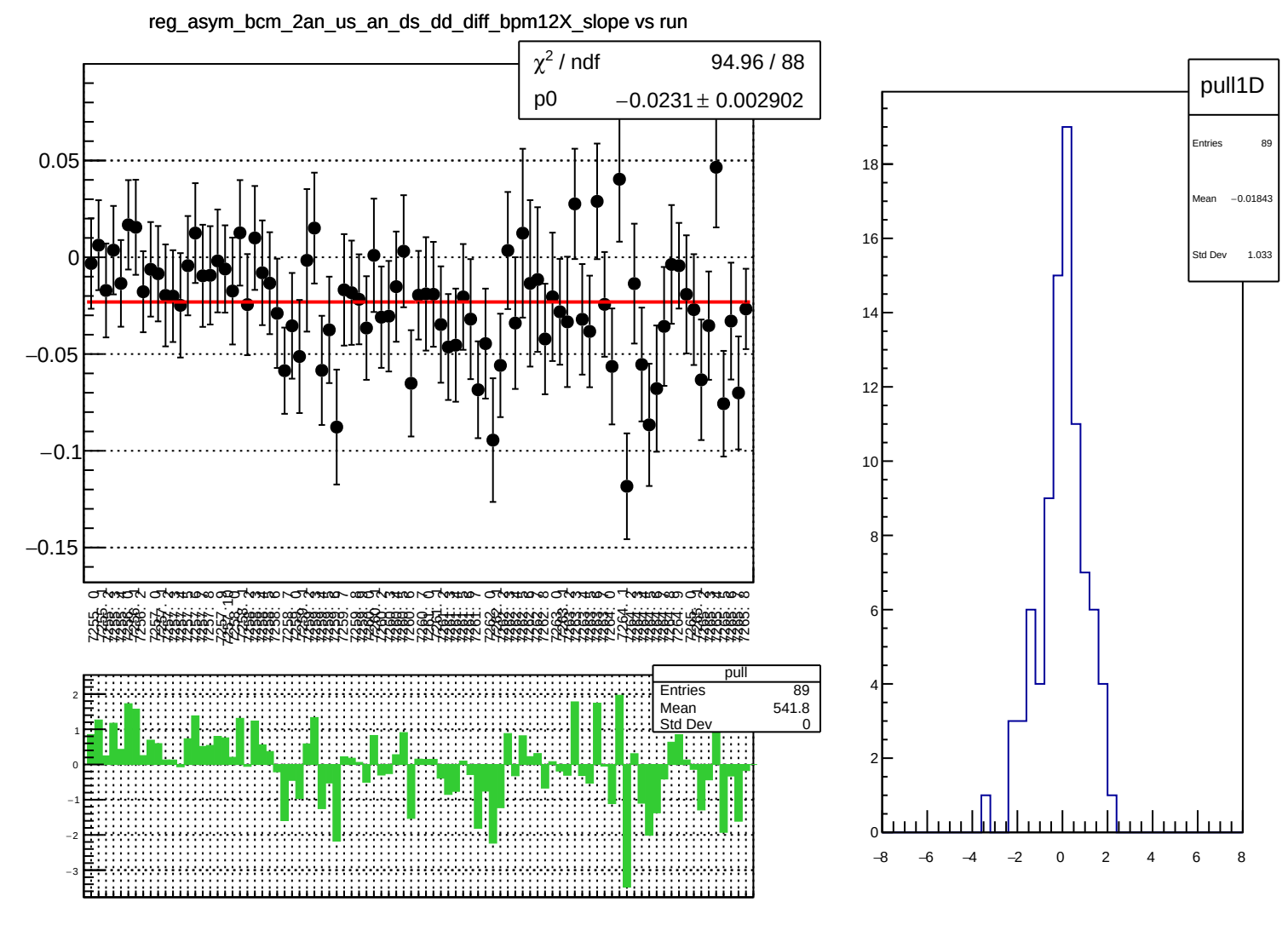

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 120.6 / 88
p0 −1.428 ± 0.07666
pull
Entries 89
Mean 24.72
Std Dev 0
pull1D
Entries 89
Mean −0.07272
Std Dev 1.162

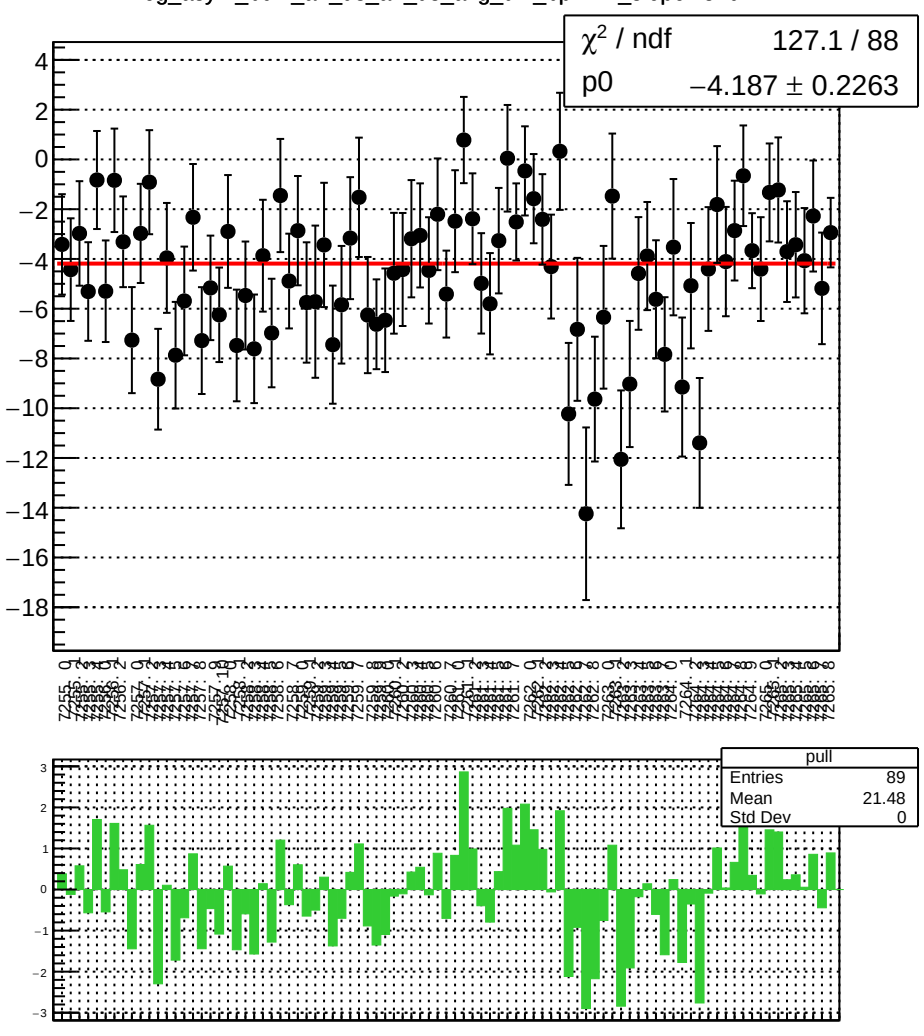

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 122.7 / 88
p0 0.8684 ± 0.06725
pull
Entries 89
Mean 273.9
Std Dev 0

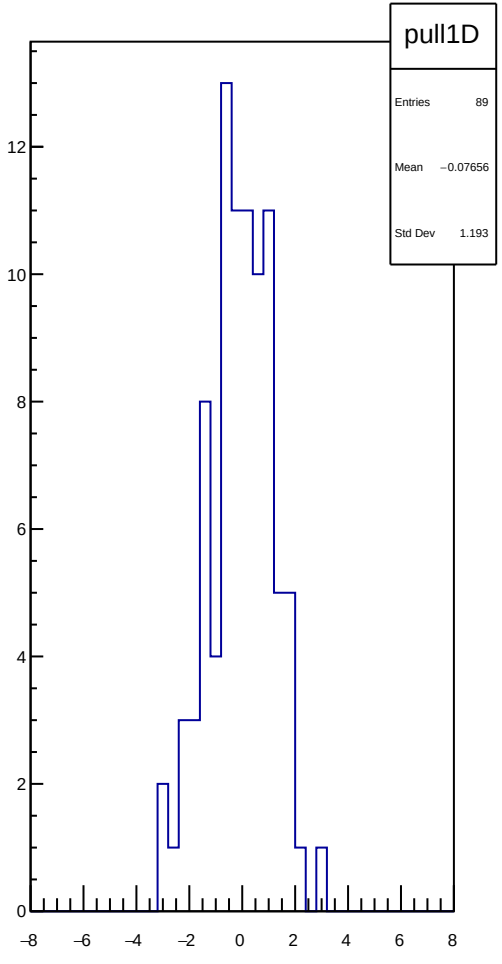

pull1D
Entries 89
Mean −0.02191
Std Dev 1.174

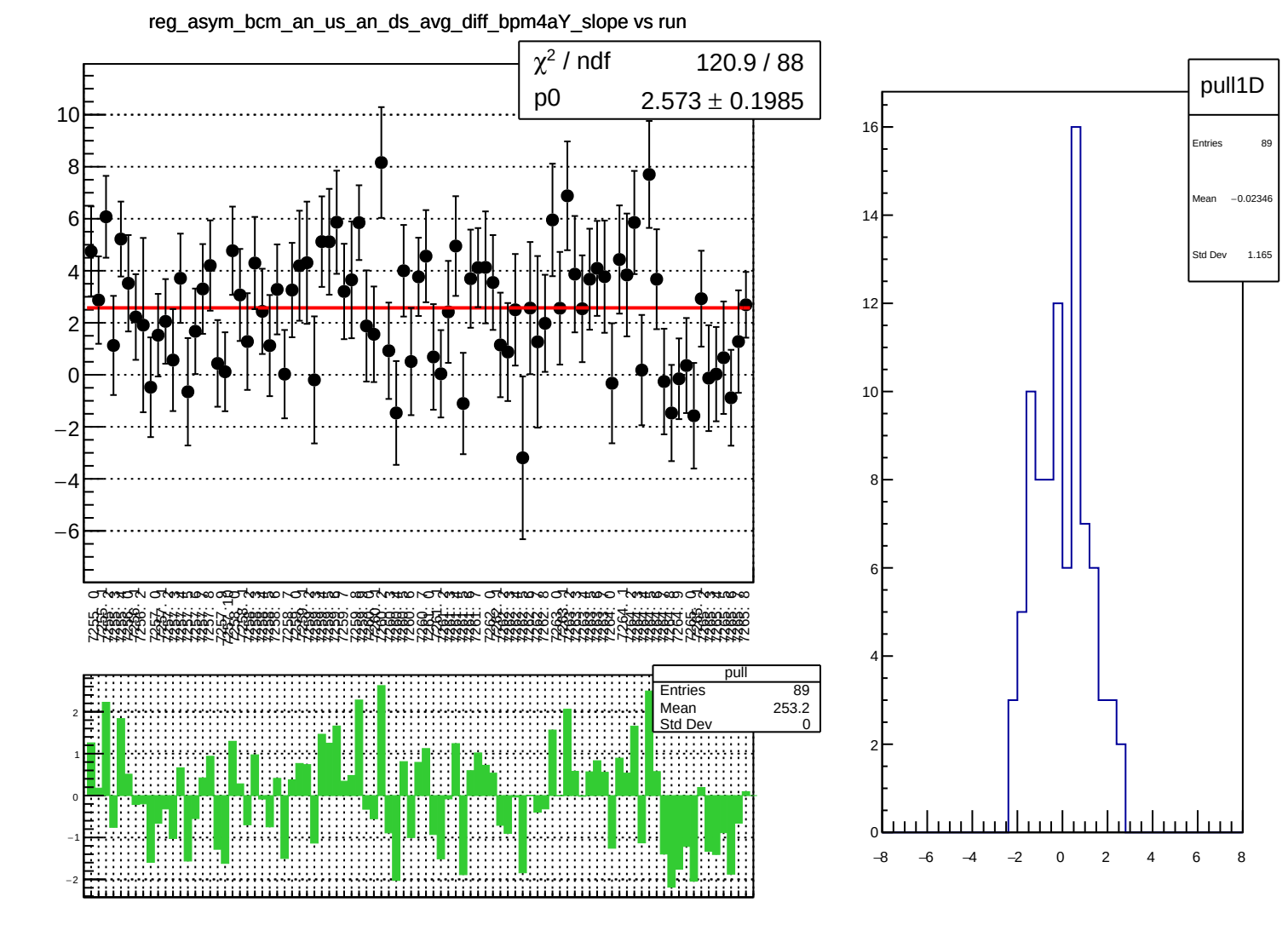

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 125.8 / 88
p0 1.419 ± 0.08303
pull
Entries 89
Mean 23.02
Std Dev 0
pull1D
Entries 89
Mean 0.08408
Std Dev 1.186

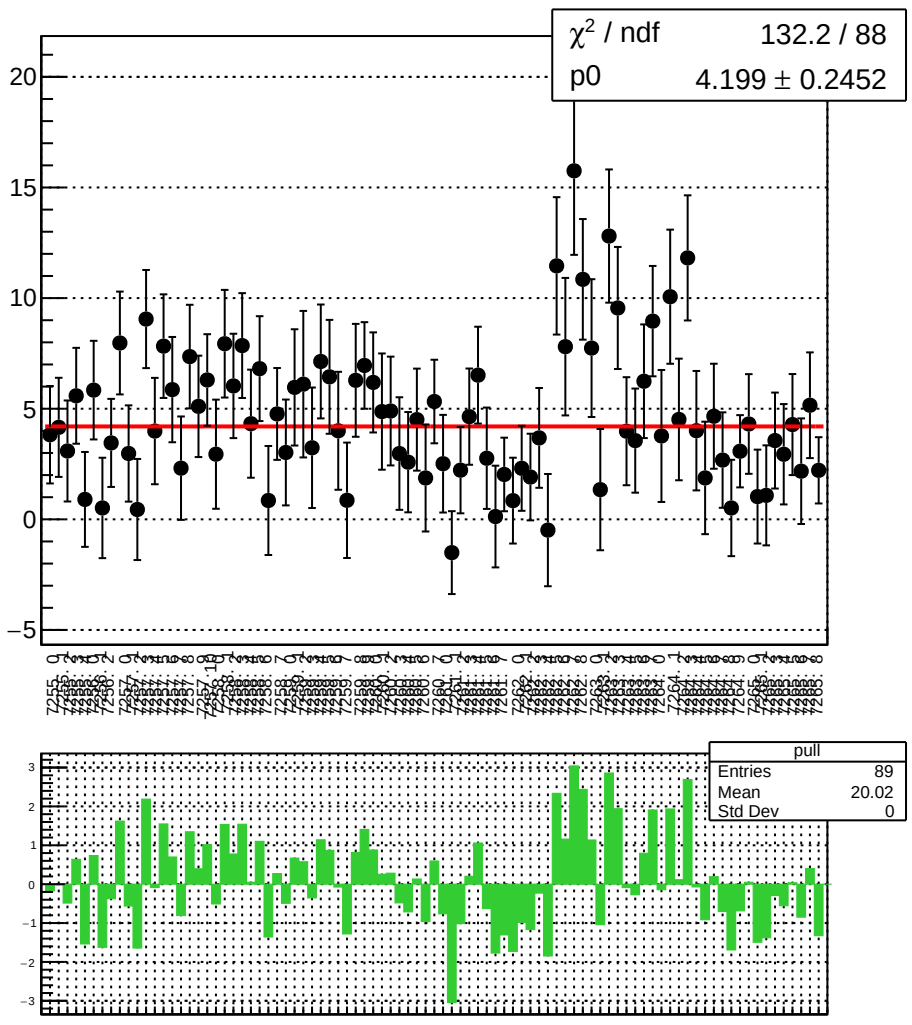

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 128.6 / 88
p0 −1.123 ± 0.07058
pull
Entries 89
Mean 1771
Std Dev 0
pull1D
Entries 89
Mean 0.00297
Std Dev 1.202

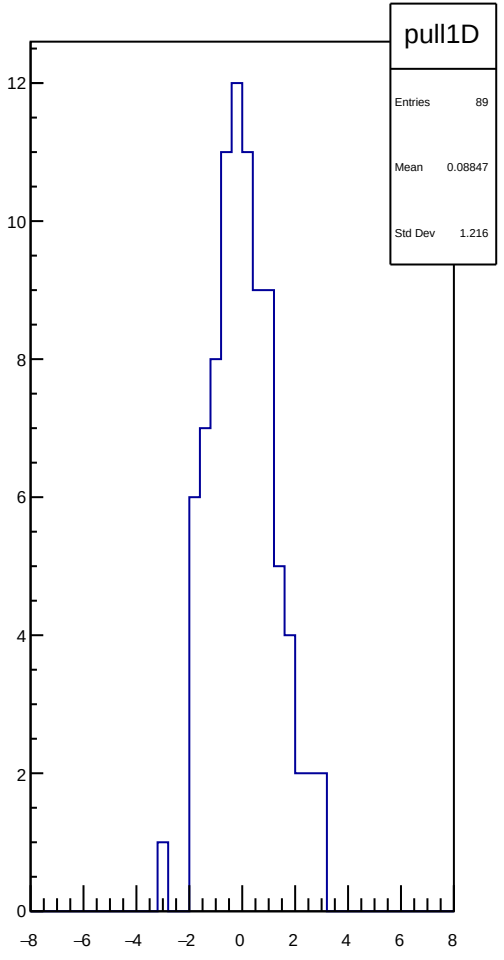

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 94.96 / 88
p0 −0.0231 ± 0.002902
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean 541.8
Std Dev 0
pull1D
Entries 89
Mean −0.01843
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

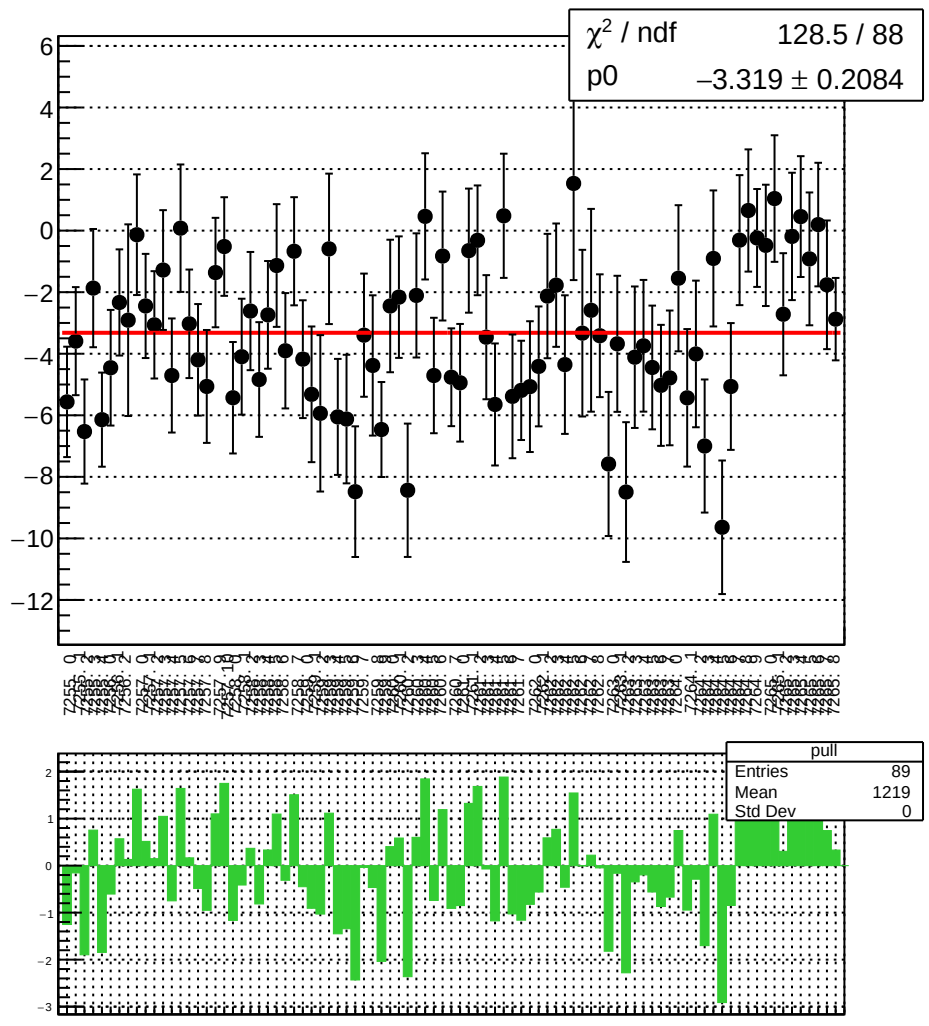

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 127.1 / 88
p0 −4.187 ± 0.2263
pull
Entries 89
Mean 21.48
Std Dev 0

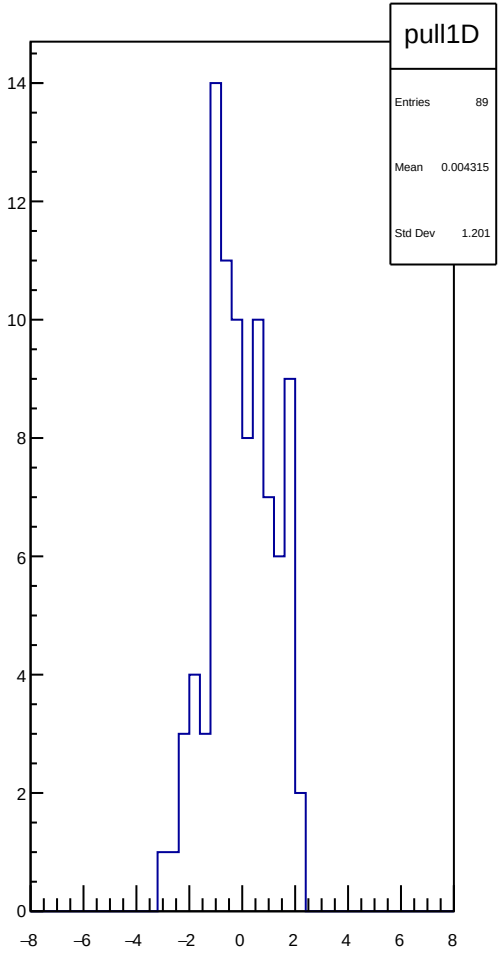

pull1D
Entries 89
Mean −0.07656
Std Dev 1.193

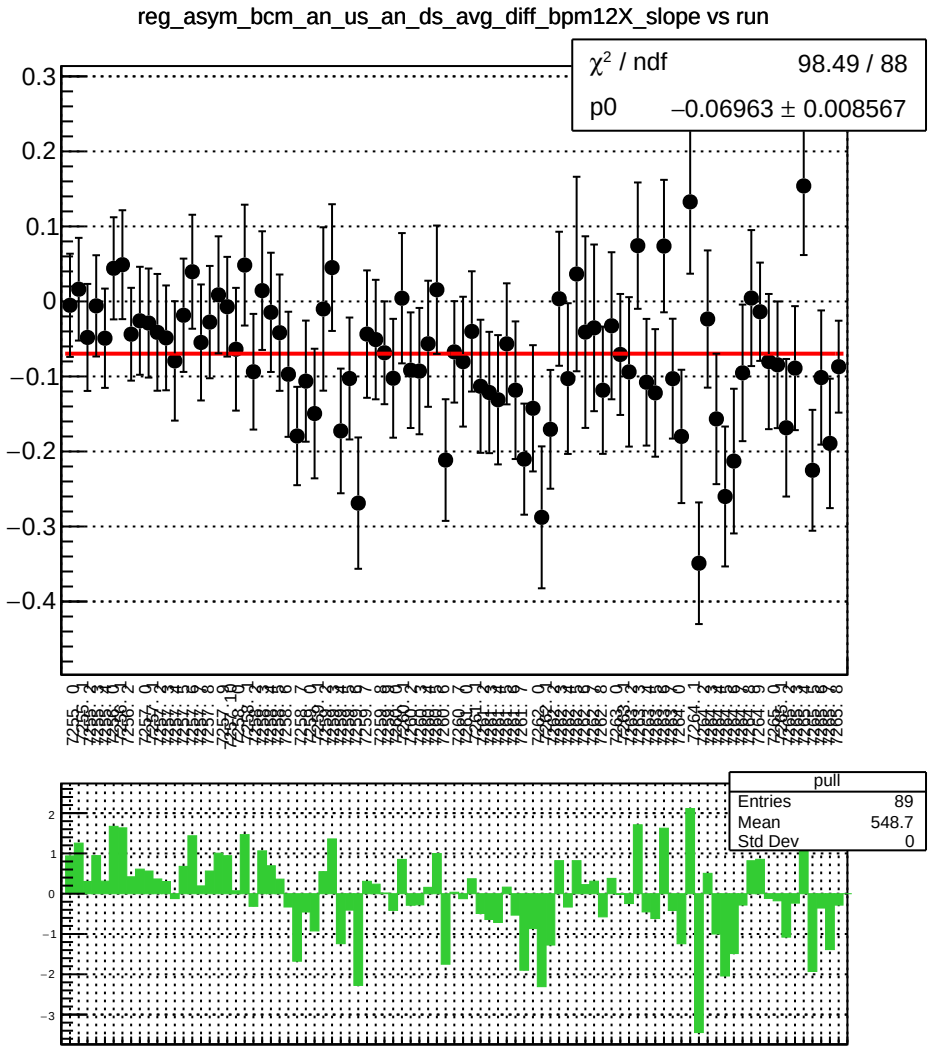

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 120.9 / 88
p0 2.573 ± 0.1985
pull
Entries 89
Mean 253.2
Std Dev 0
pull1D
Entries 89
Mean −0.02346
Std Dev 1.165

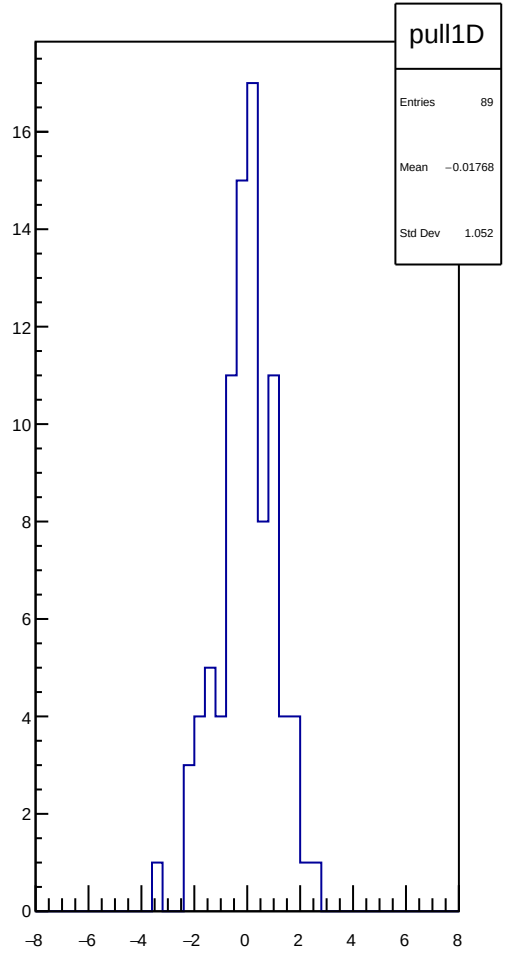

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 132.2 / 88
p0 4.199 ± 0.2452
pull
Entries 89
Mean 20.02
Std Dev 0

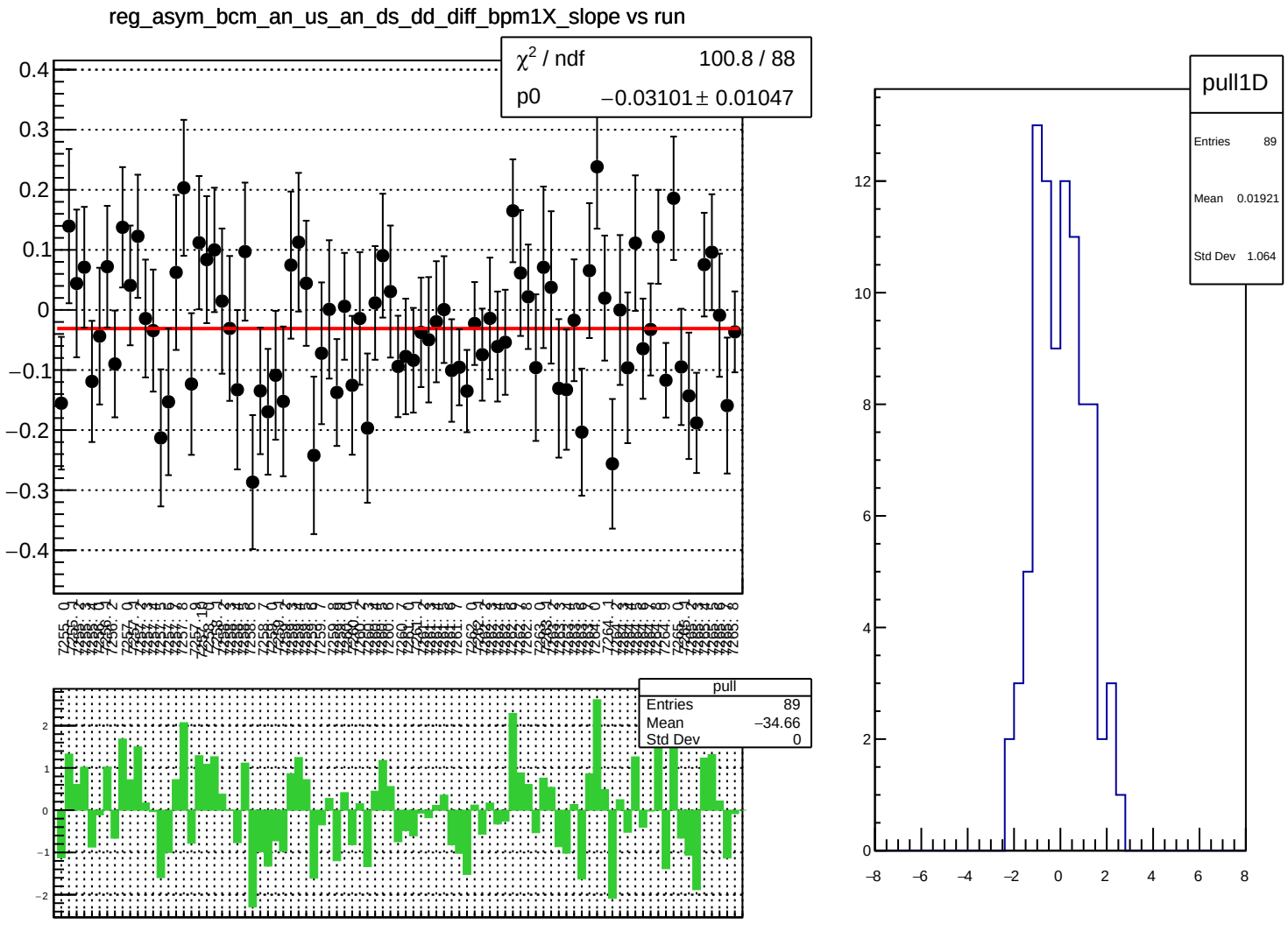

pull1D
Entries 89
Mean 0.08847
Std Dev 1.216

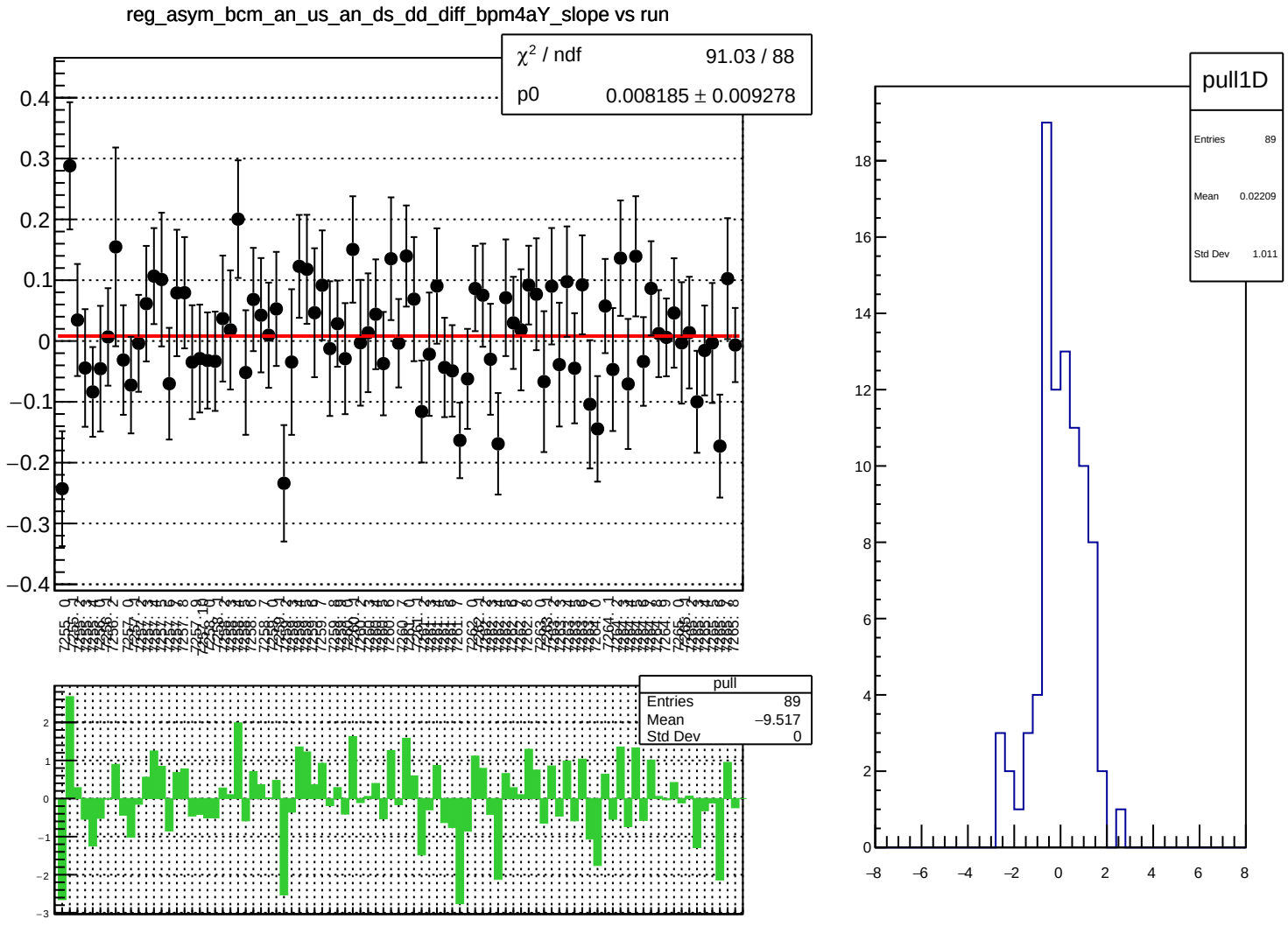

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 128.5 / 88
p0 −3.319 ± 0.2084
pull
Entries 89
Mean 1219
Std Dev 0

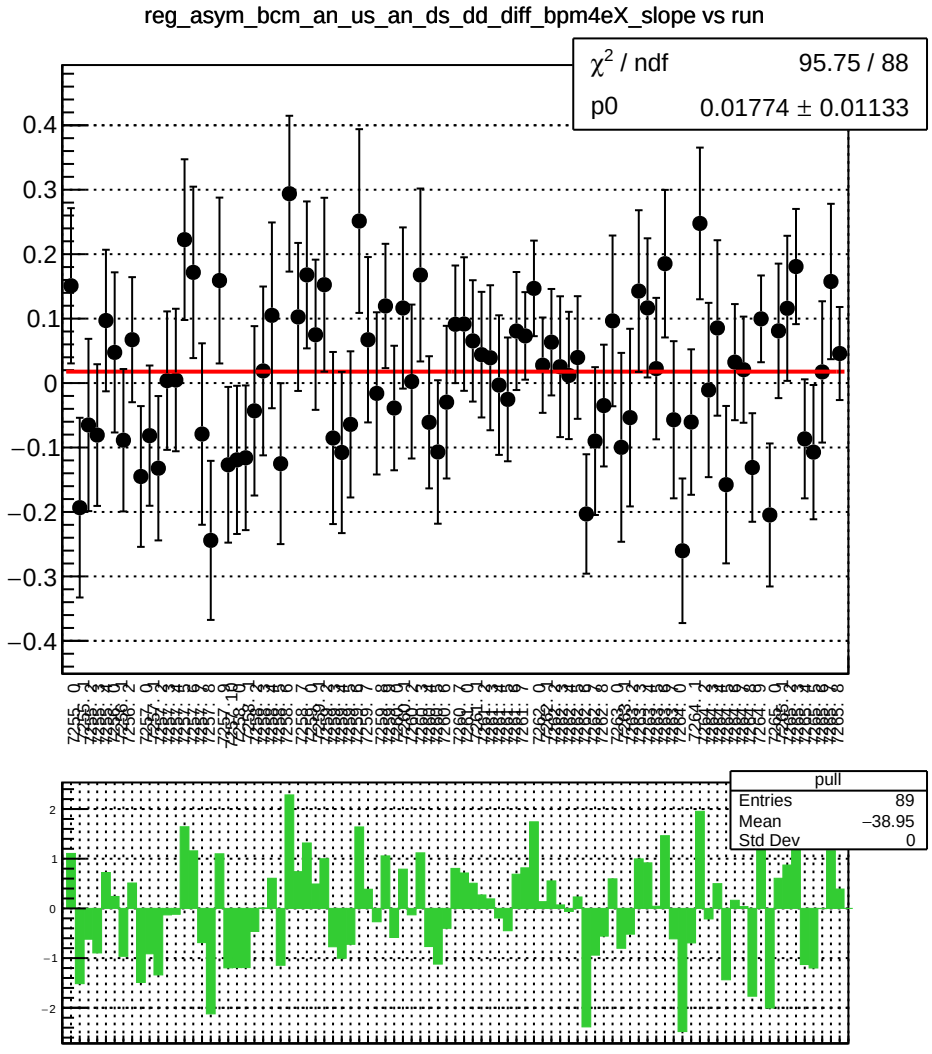

pull1D
Entries 89
Mean 0.004315
Std Dev 1.201

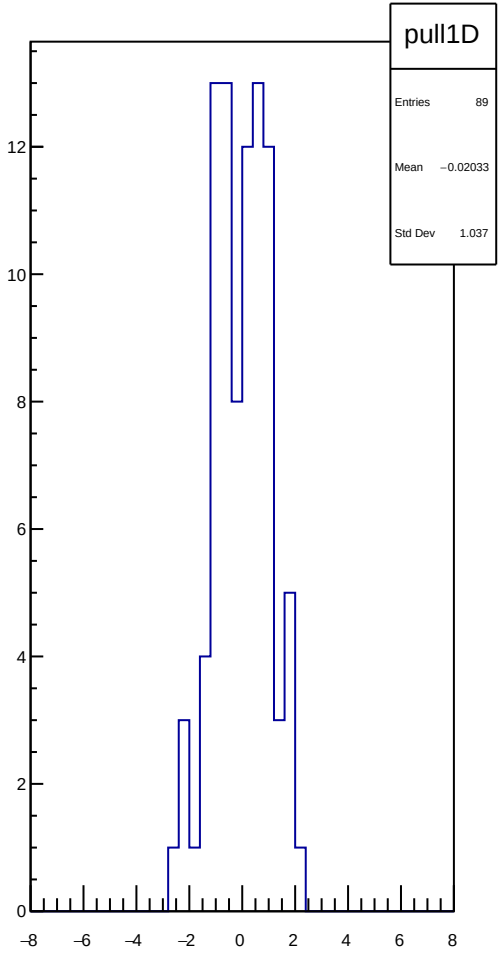

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 98.49 / 88
p0 −0.06963 ± 0.008567
pull
Entries 89
Mean 548.7
Std Dev 0

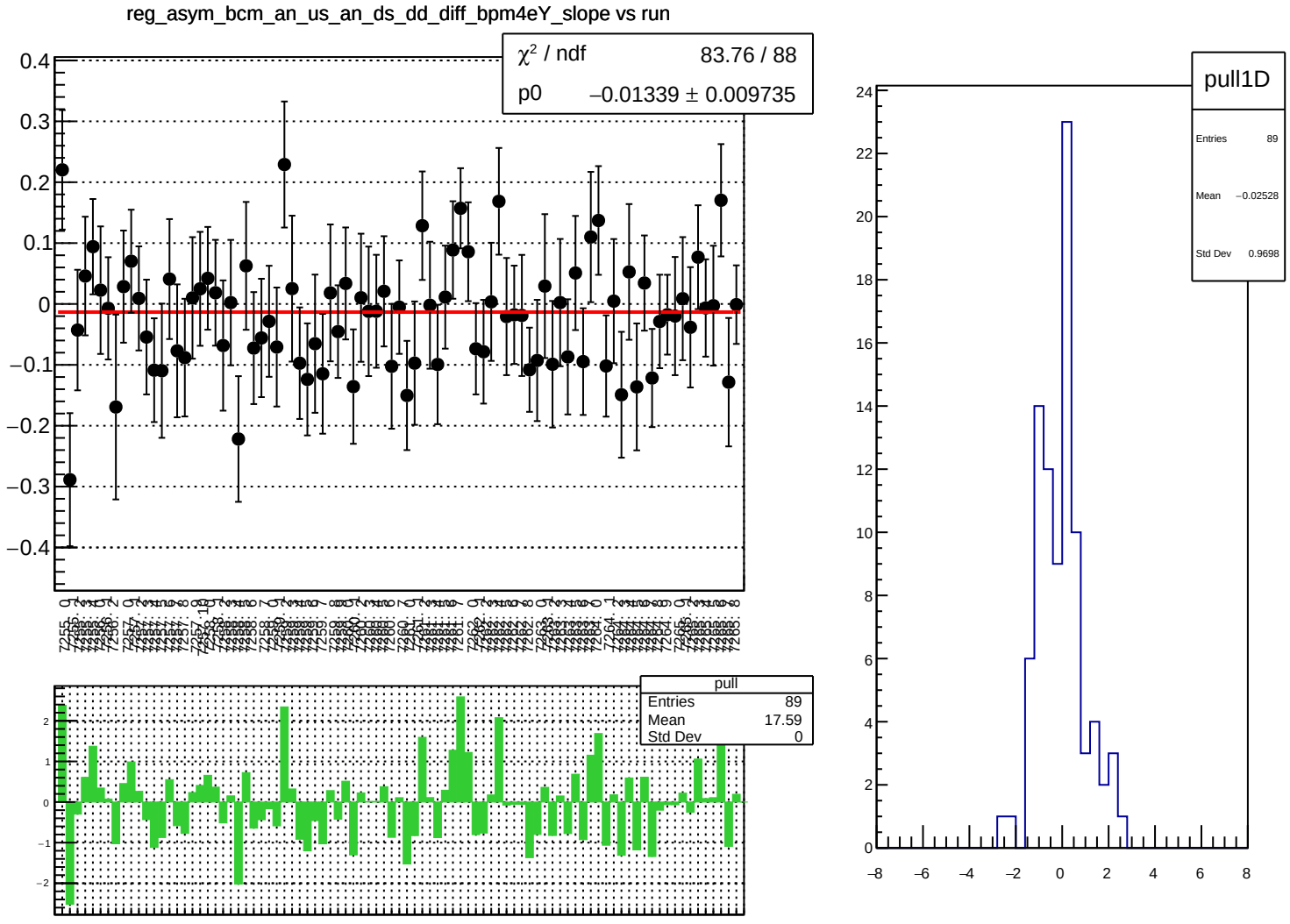

pull1D
Entries 89
Mean −0.01768
Std Dev 1.052

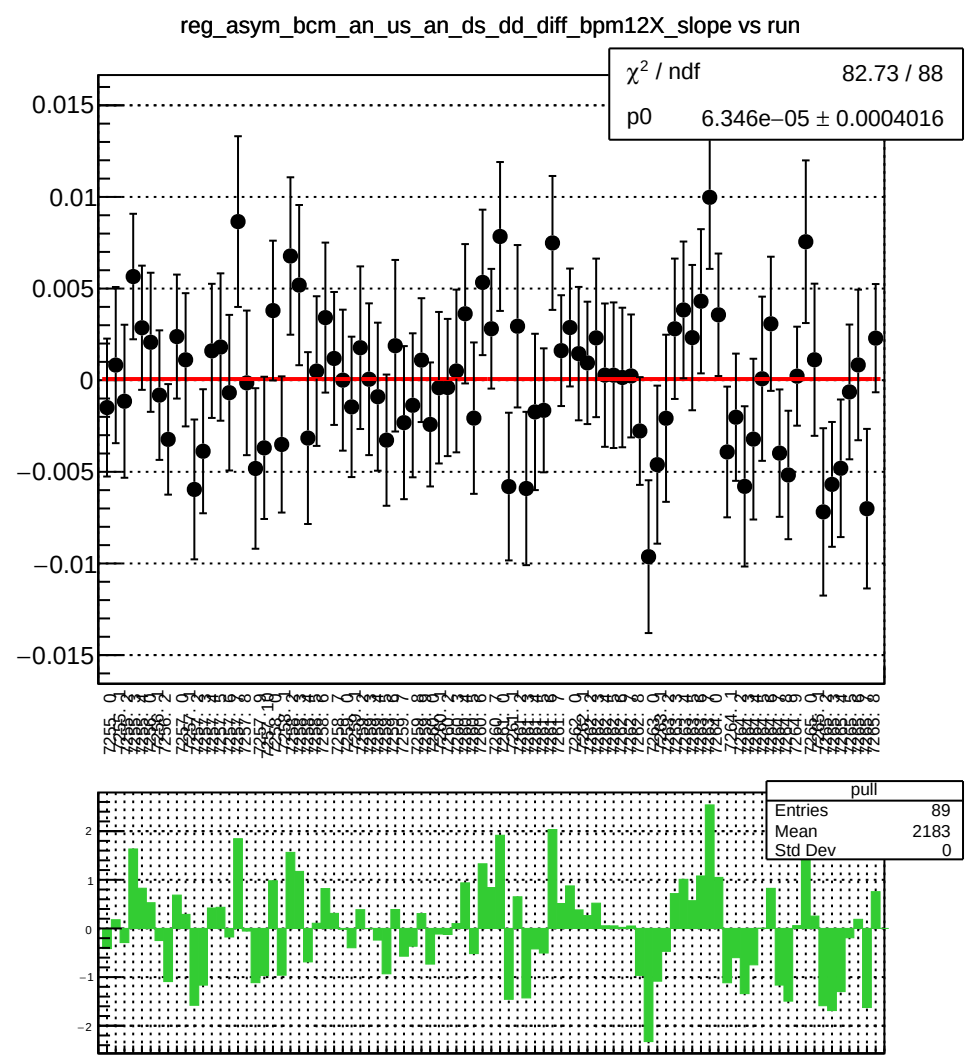

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 100.8 / 88
p0 −0.03101 ± 0.01047
pull
Entries 89
Mean −34.66
Std Dev 0
pull1D
Entries 89
Mean 0.01921
Std Dev 1.064

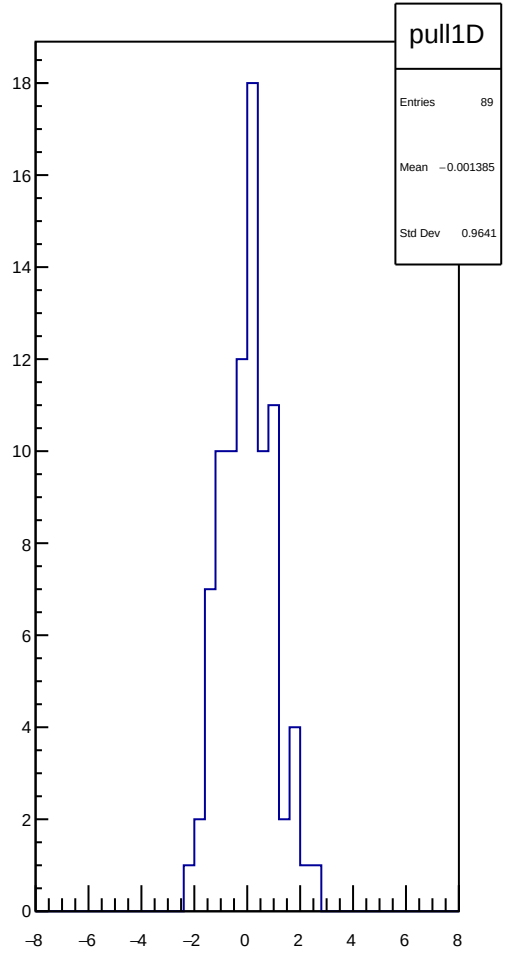

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 91.03 / 88
p0 0.008185 ± 0.009278
pull
Entries 89
Mean −9.517
Std Dev 0
pull1D
Entries 89
Mean 0.02209
Std Dev 1.011

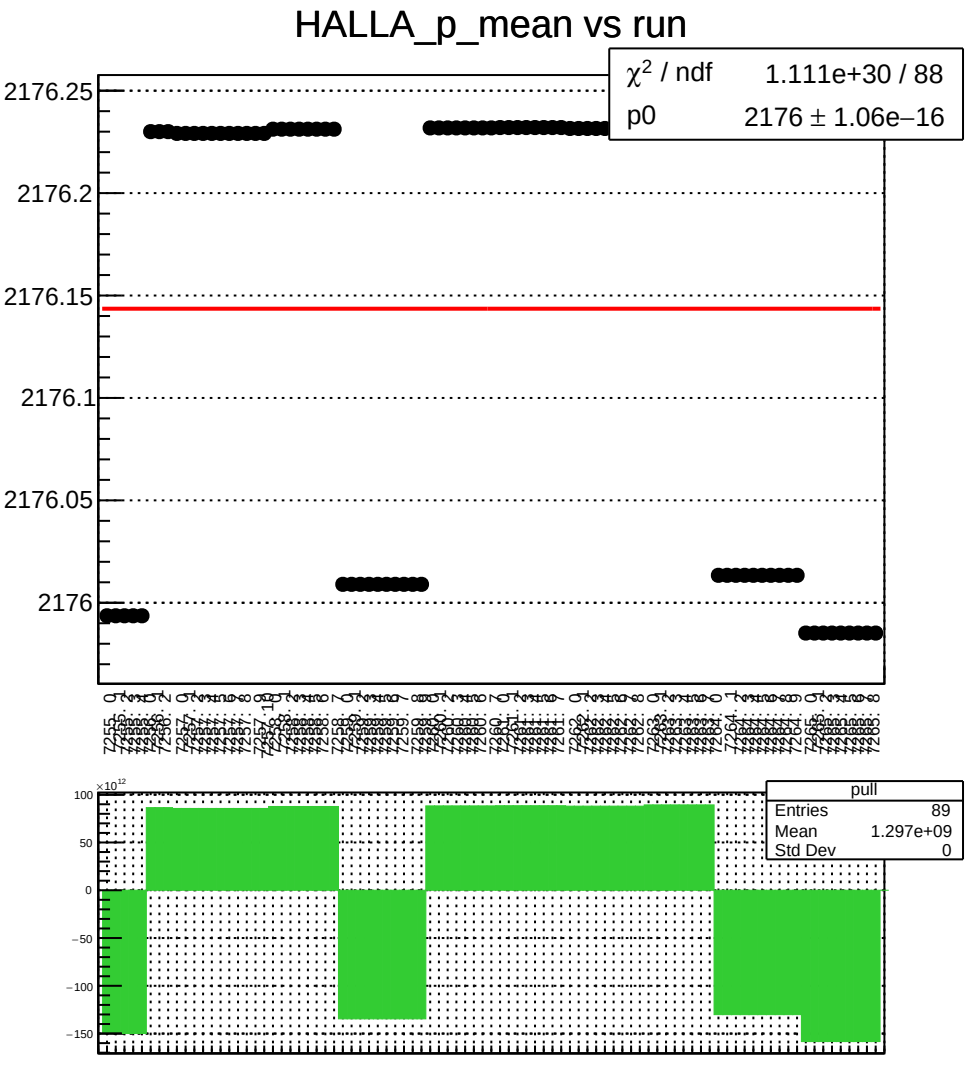

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 95.75 / 88
p0 0.01774 ± 0.01133
pull
Entries 89
Mean −38.95
Std Dev 0

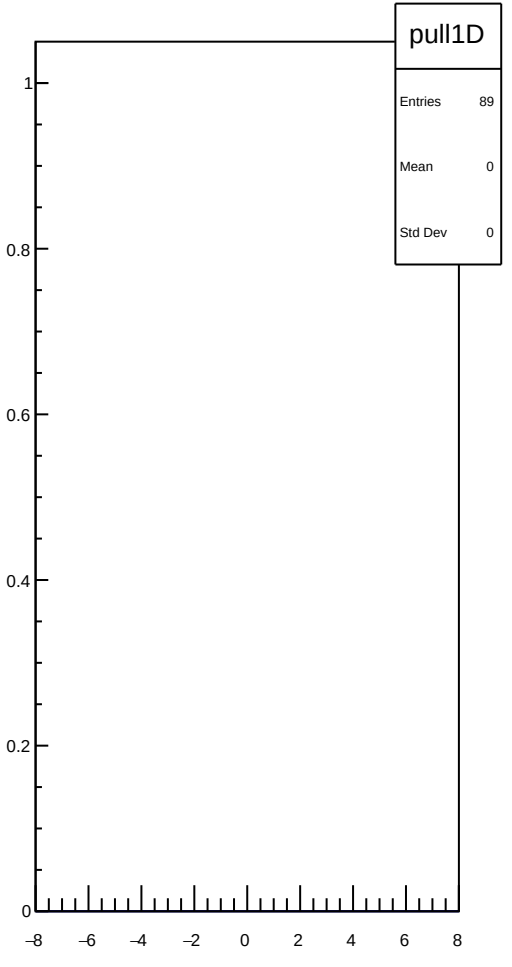

pull1D
Entries 89
Mean −0.02033
Std Dev 1.037

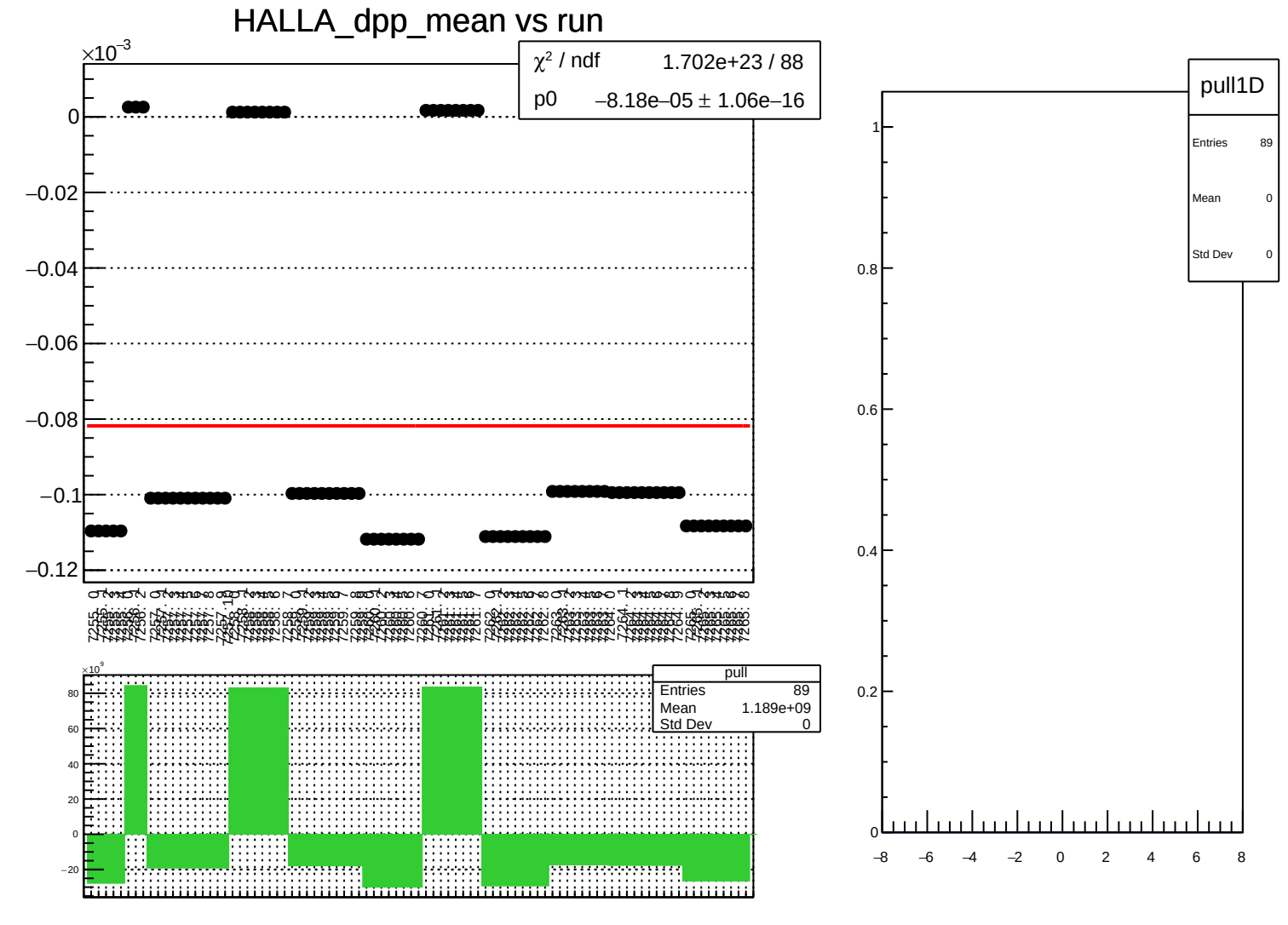

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.76 / 88
p0 −0.01339 ± 0.009735
pull
Entries 89
Mean 17.59
Std Dev 0
pull1D
Entries 89
Mean −0.02528
Std Dev 0.9698

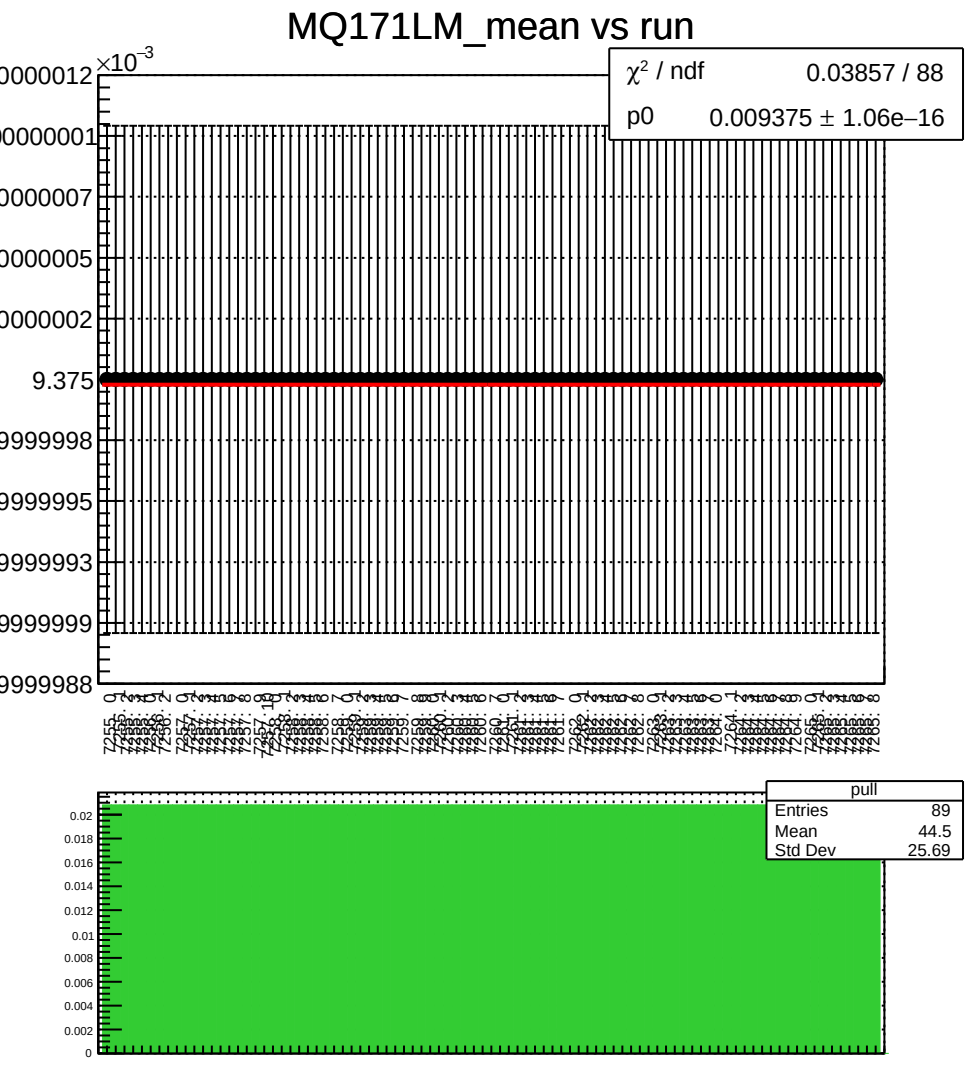

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 82.73 / 88
p0 6.346e−05 ± 0.0004016
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 2183
Std Dev 0
2
1
0
−1
−2

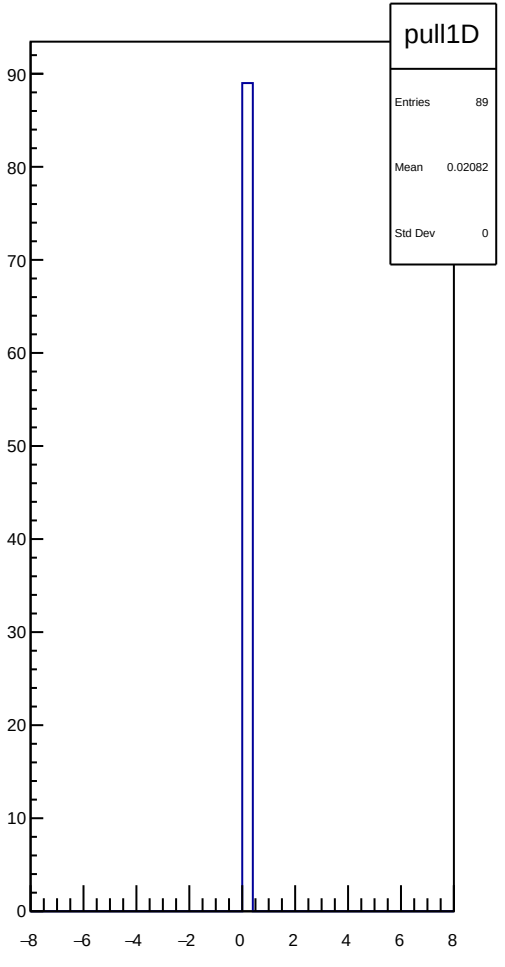

pull1D
Entries 89
Mean −0.001385
Std Dev 0.9641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

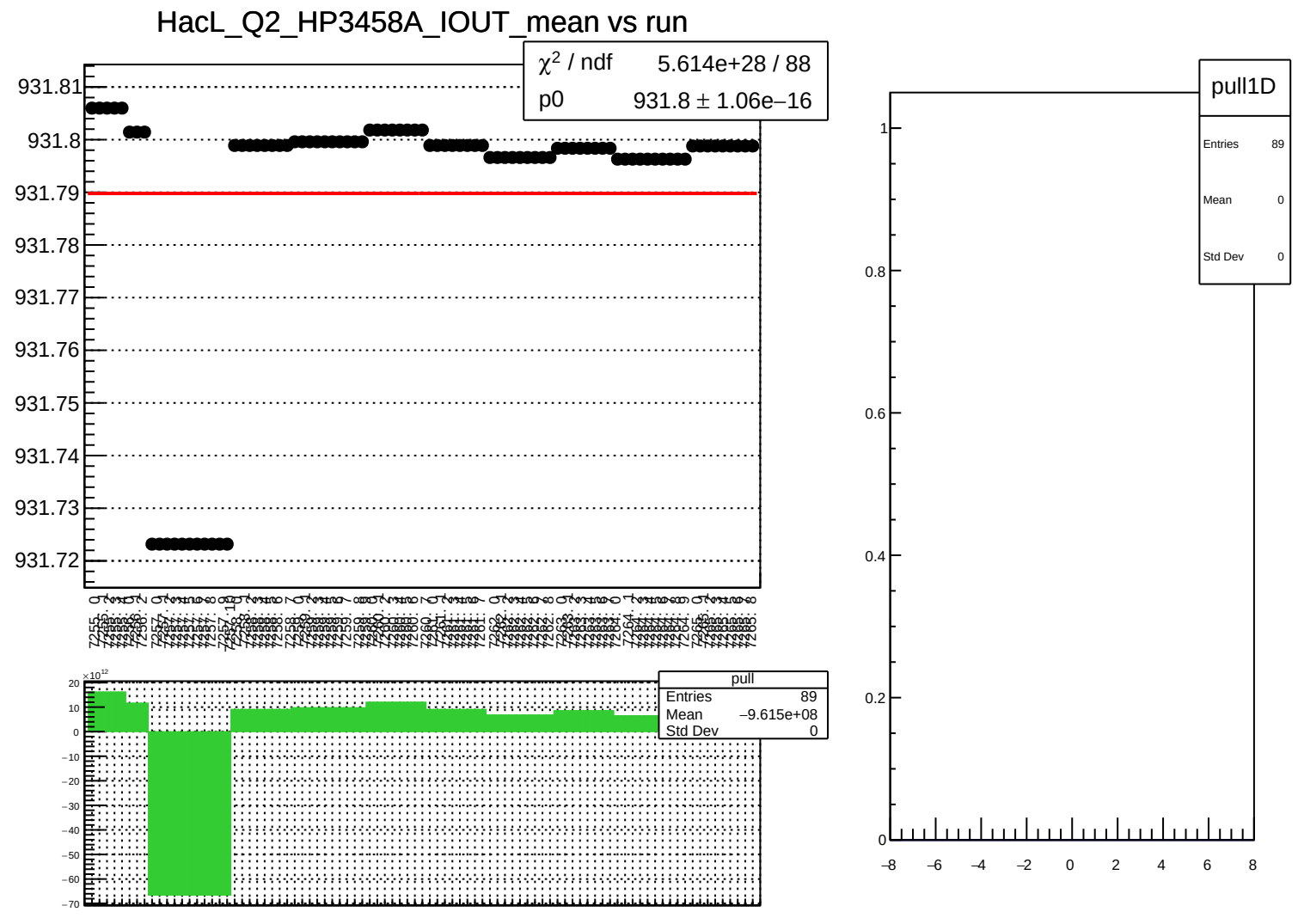

HALLA_p_mean vs run
χ² / ndf 1.111e+30 / 88
p0 2176 ± 1.06e−16
2176.25
2176.2
2176.15
2176.1
2176.05
2176
pull
Entries 89
Mean 1.297e+09
Std Dev 0
×10¹²
100
50
0
−50
−100
−150

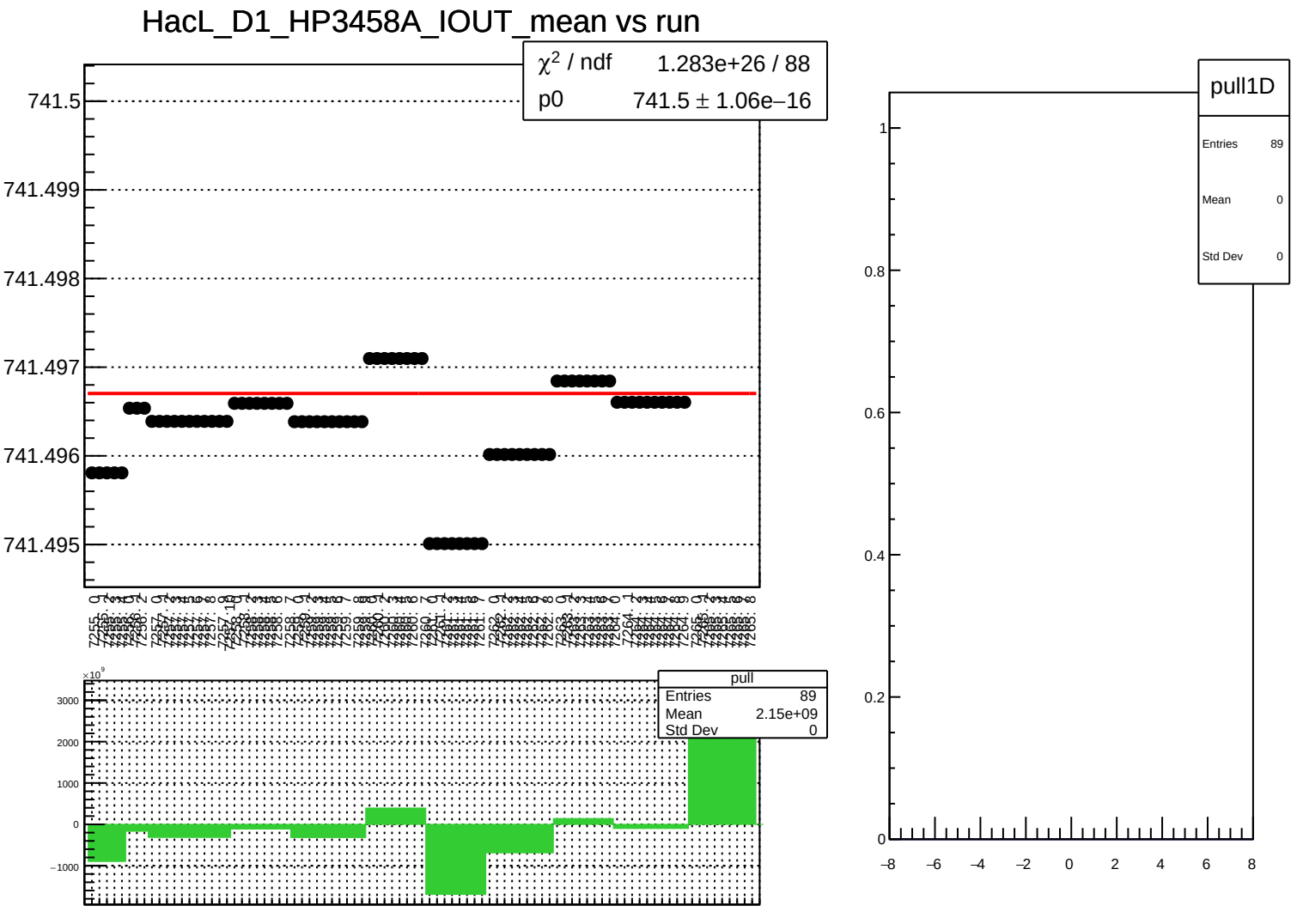

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

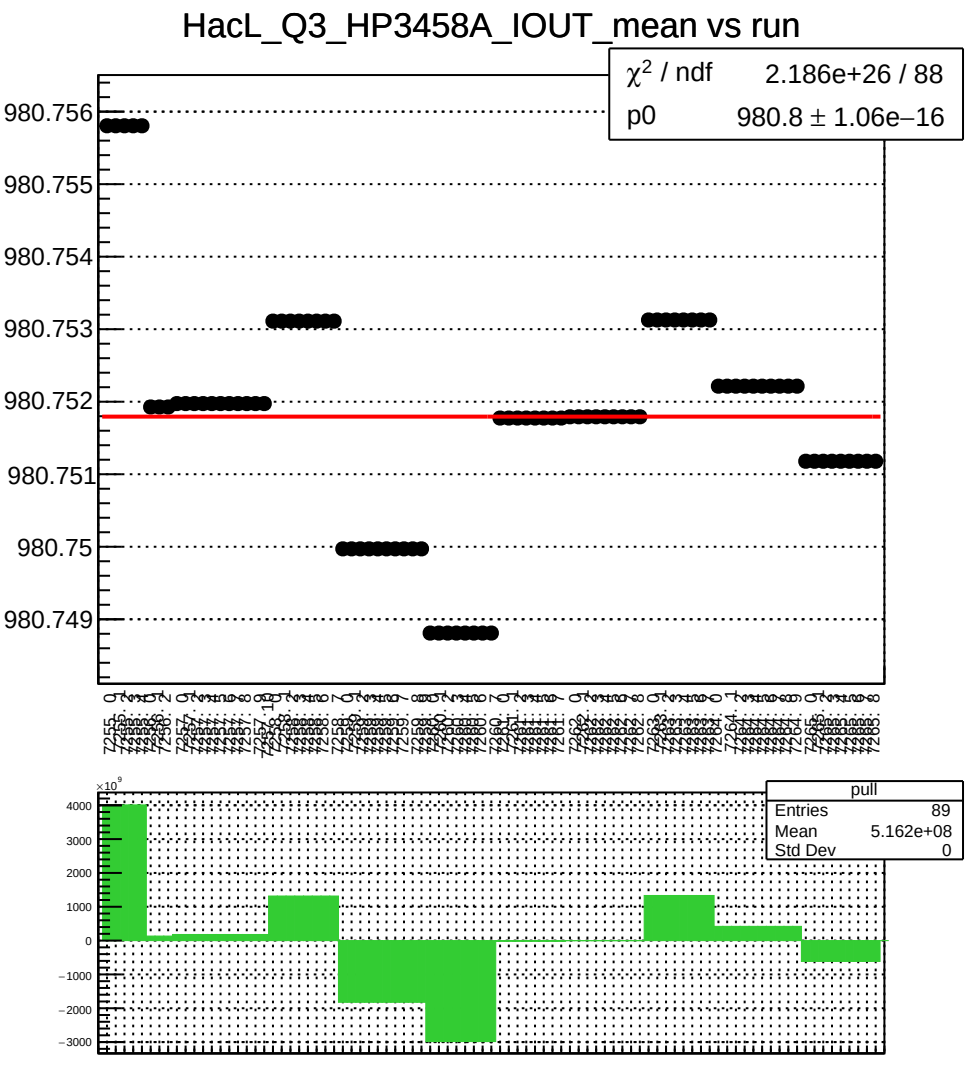

HALLA_dpp_mean vs run
χ² / ndf 1.702e+23 / 88
p0 −8.18e−05 ± 1.06e−16
×10⁻³
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
80
60
40
20
0
−20
pull
Entries 89
Mean 1.189e+09
Std Dev 0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

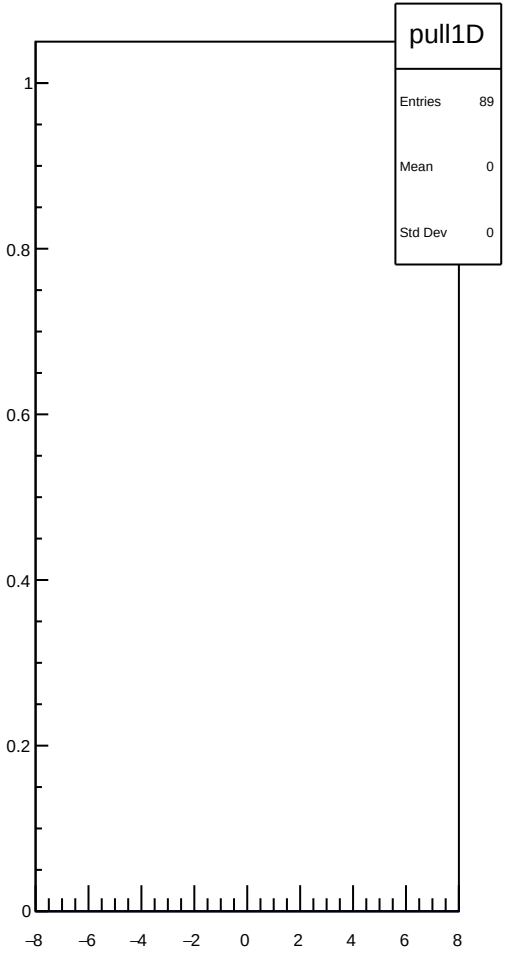

MQ171LM_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69

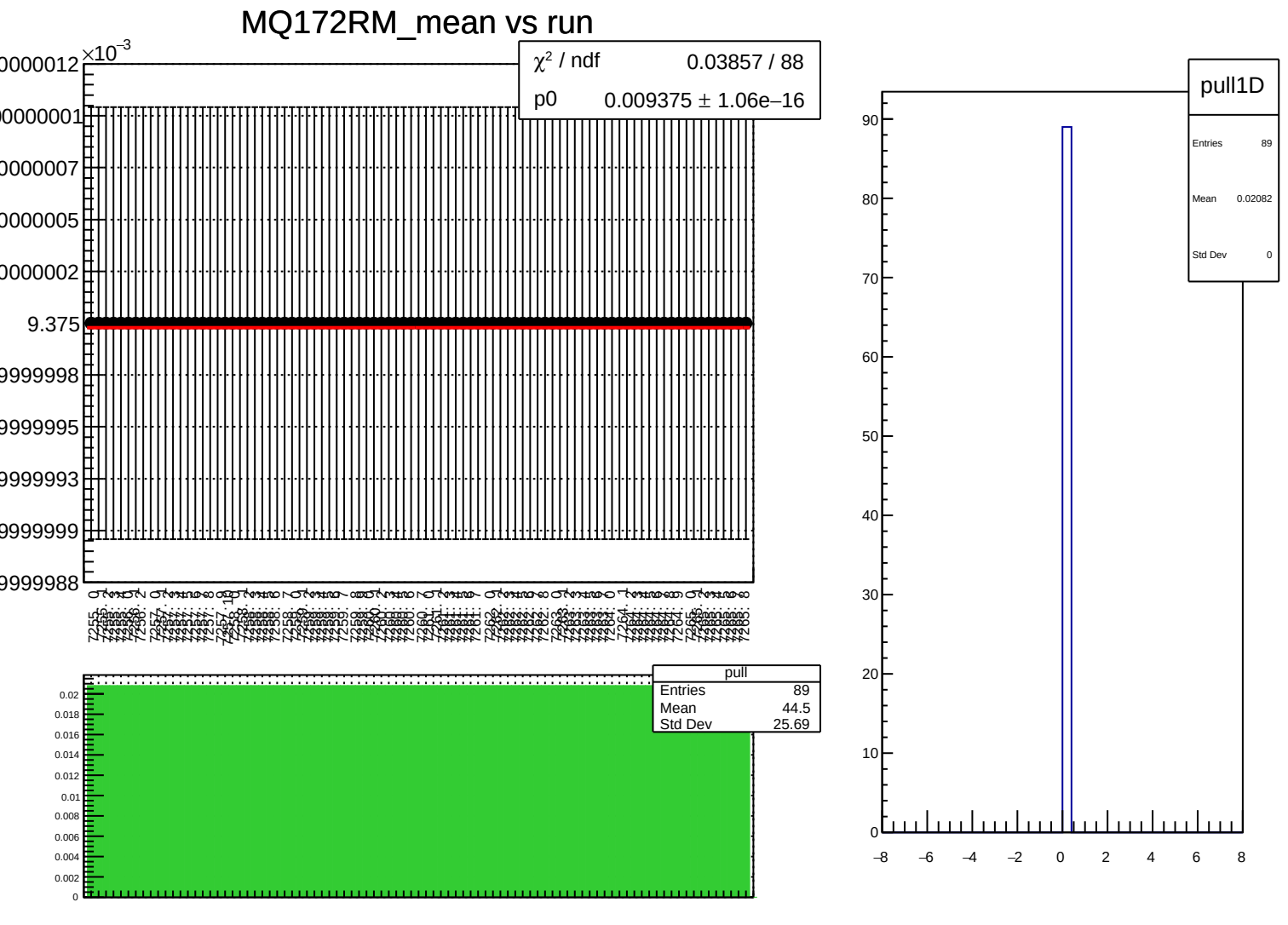

pull1D
Entries 89
Mean 0.02082
Std Dev 0

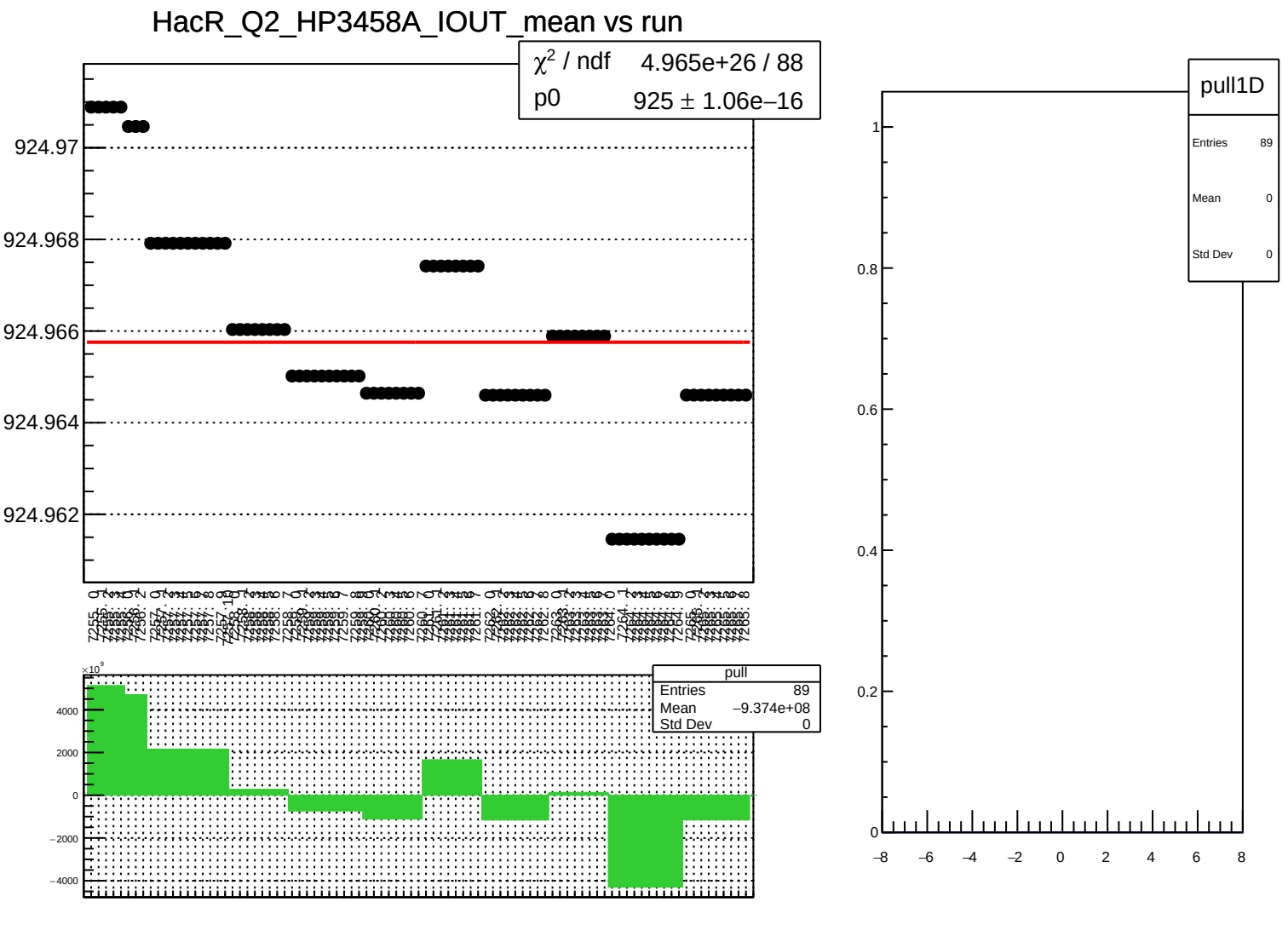

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 5.614e+28 / 88
p0 931.8 ± 1.06e−16
931.81
931.8
931.79
931.78
931.77
931.76
931.75
931.74
931.73
931.72
pull
Entries 89
Mean −9.615e+08
Std Dev 0
×10¹²
20
10
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

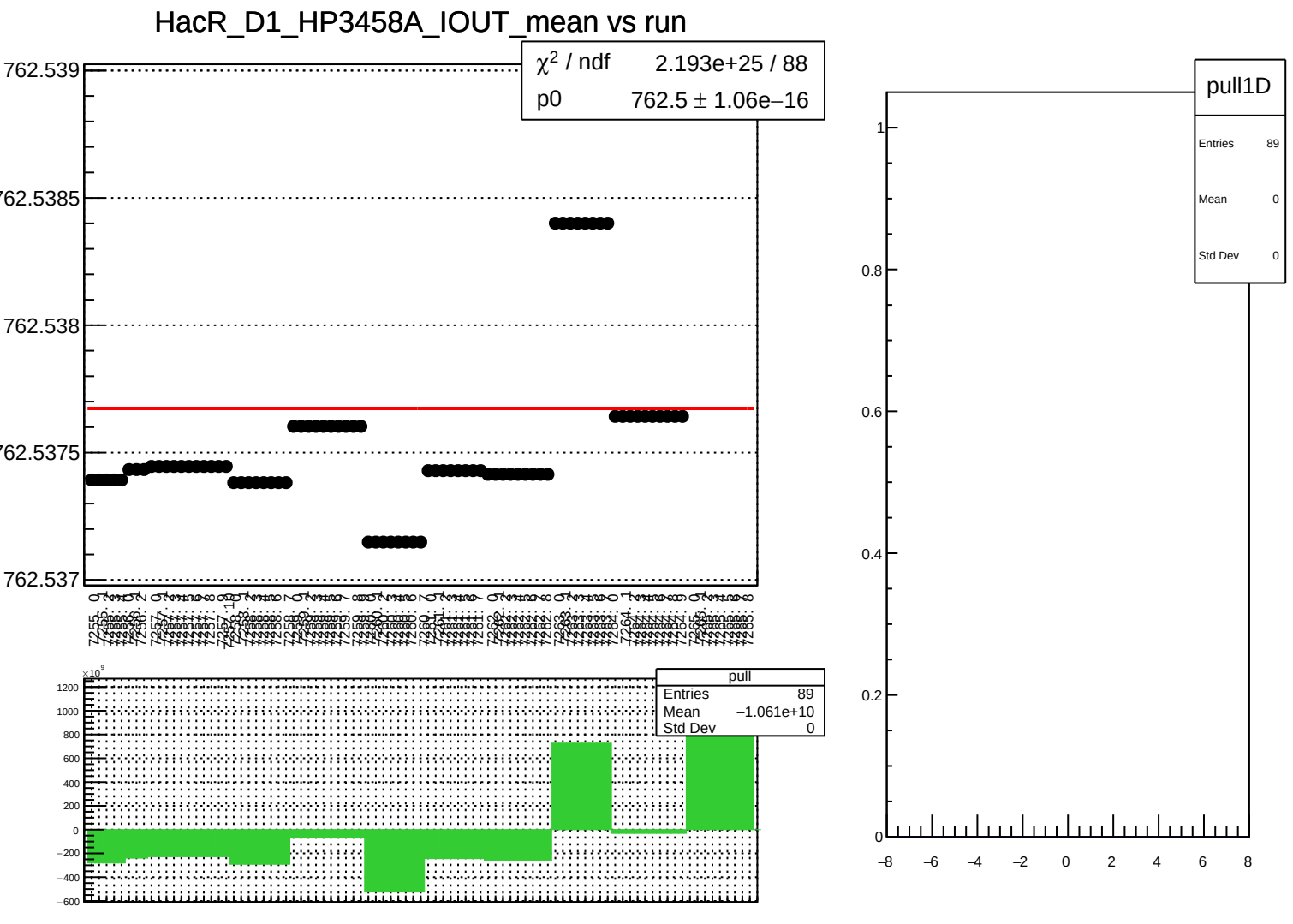

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.283e+26 / 88
p0 741.5 ± 1.06e−16
741.5
741.499
741.498
741.497
741.496
741.495
×10⁹
3000
2000
1000
0
−1000
pull
Entries 89
Mean 2.15e+09
Std Dev 0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

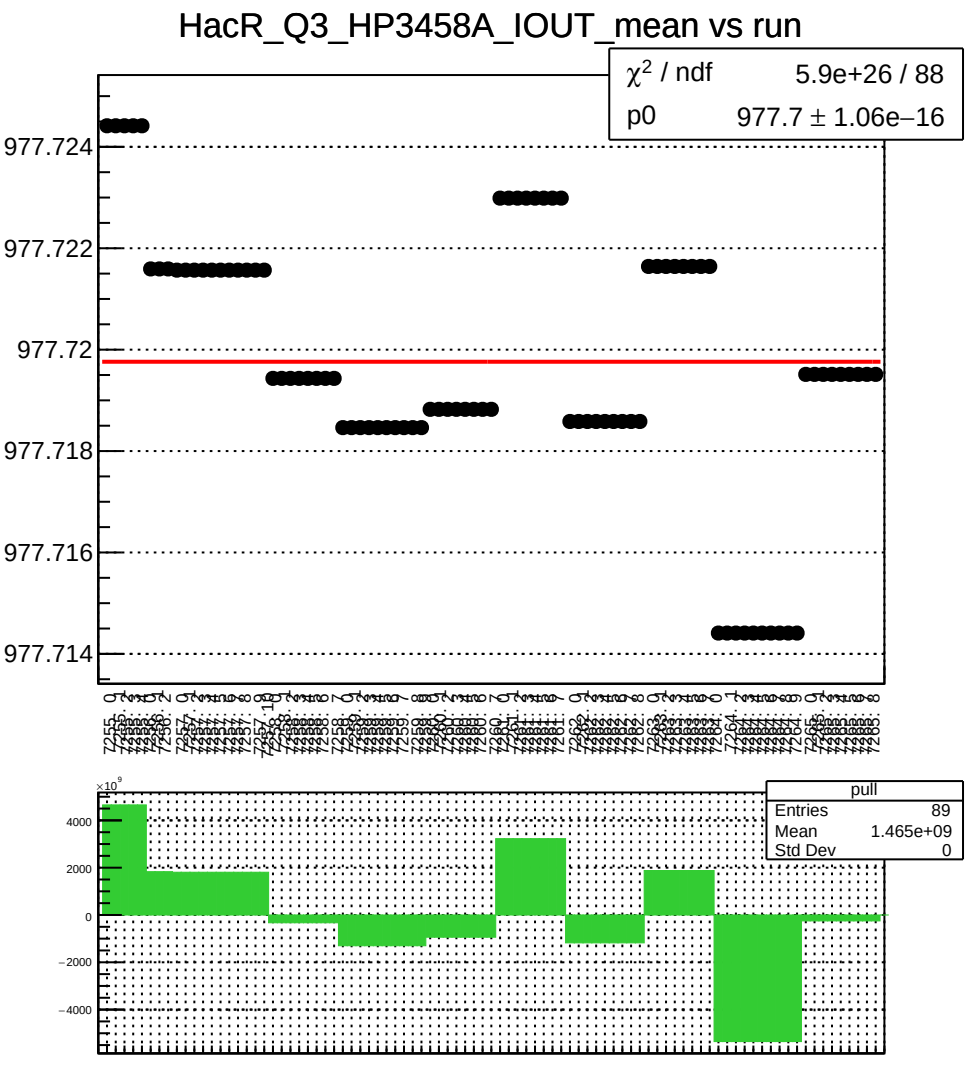

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.186e+26 / 88
p0 980.8 ± 1.06e−16
980.756
980.755
980.754
980.753
980.752
980.751
980.75
980.749
pull
Entries 89
Mean 5.162e+08
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000

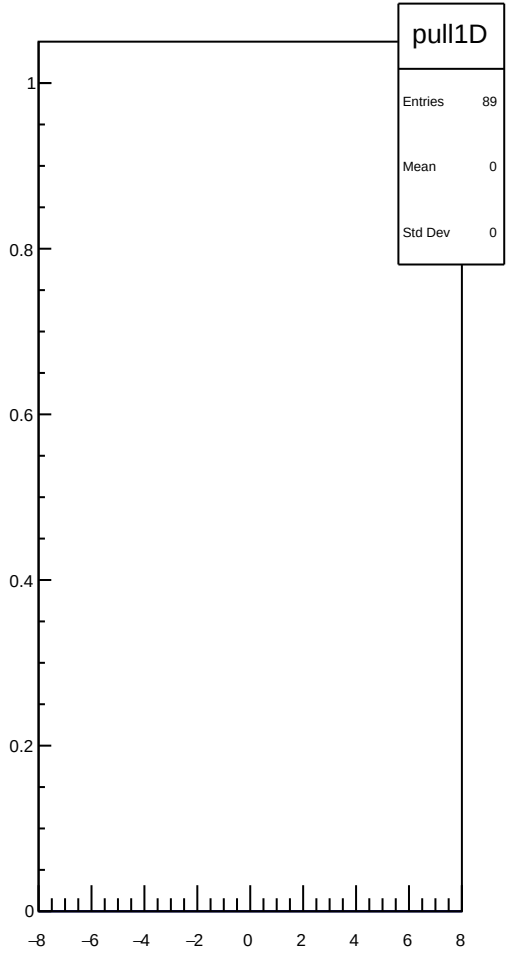

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

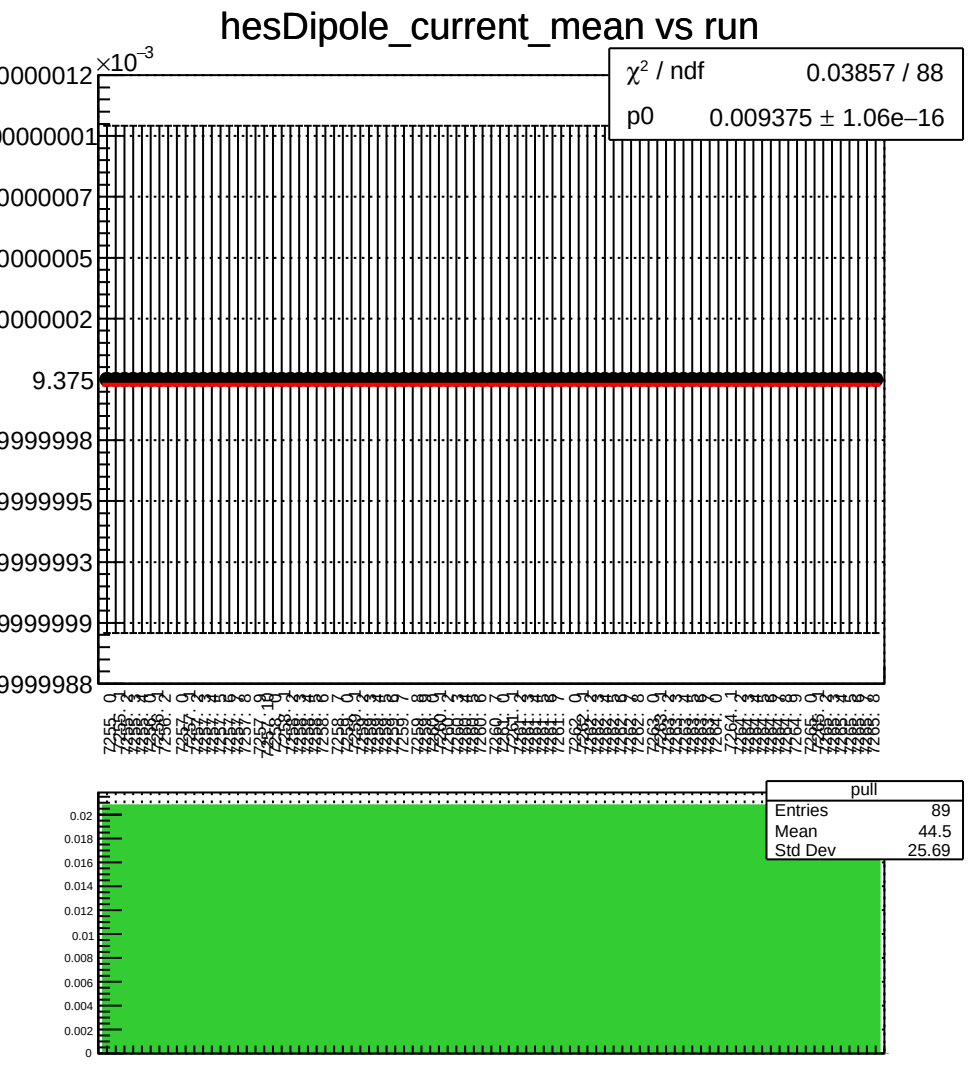

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
9.375
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0

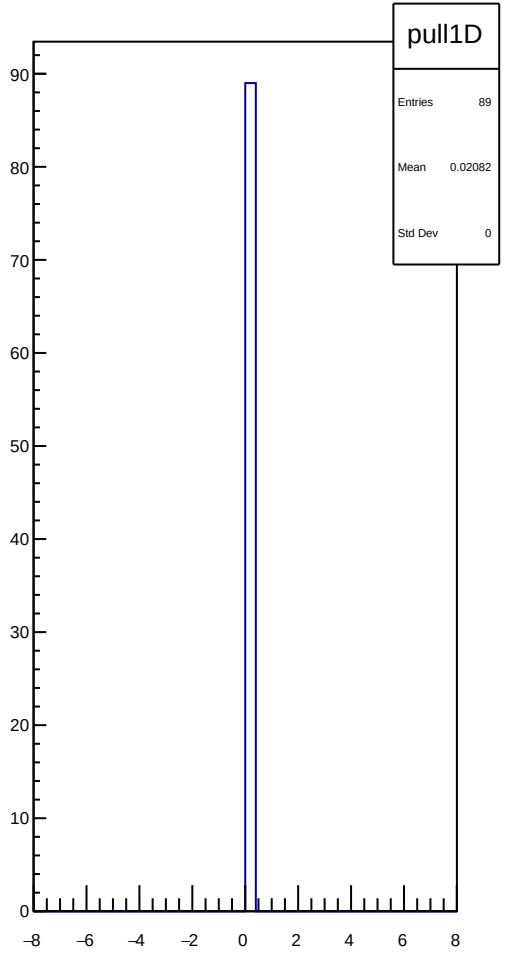

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.965e+26 / 88
p0 925 ± 1.06e−16
924.97
924.968
924.966
924.964
924.962
pull
Entries 89
Mean −9.374e+08
Std Dev 0
×10⁹
4000
2000
0
−2000
−4000
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

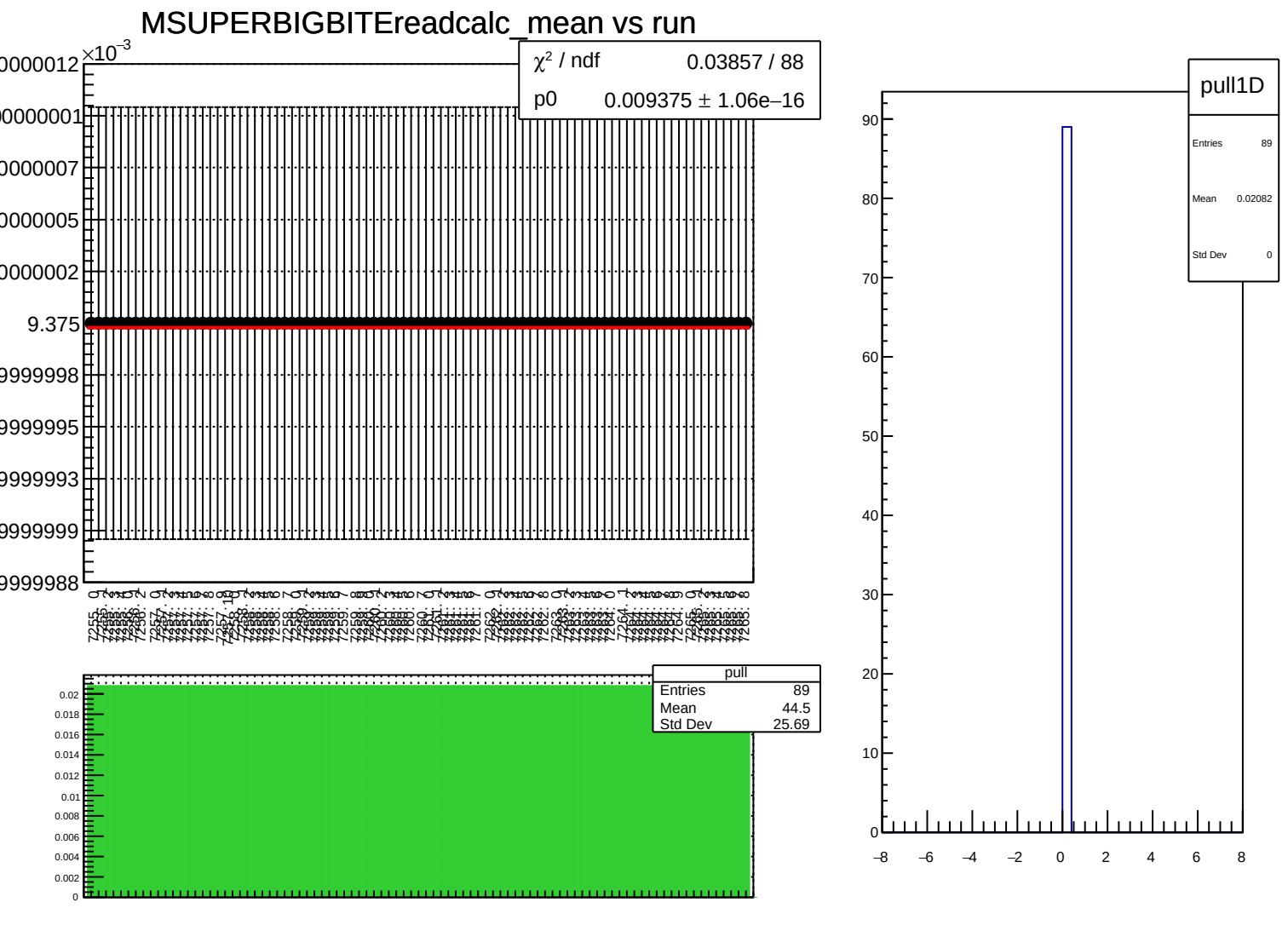

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.193e+25 / 88
p0 762.5 ± 1.06e−16
762.539
762.5385
762.538
762.5375
762.537
pull
Entries 89
Mean −1.061e+10
Std Dev 0
×10⁹
1200
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

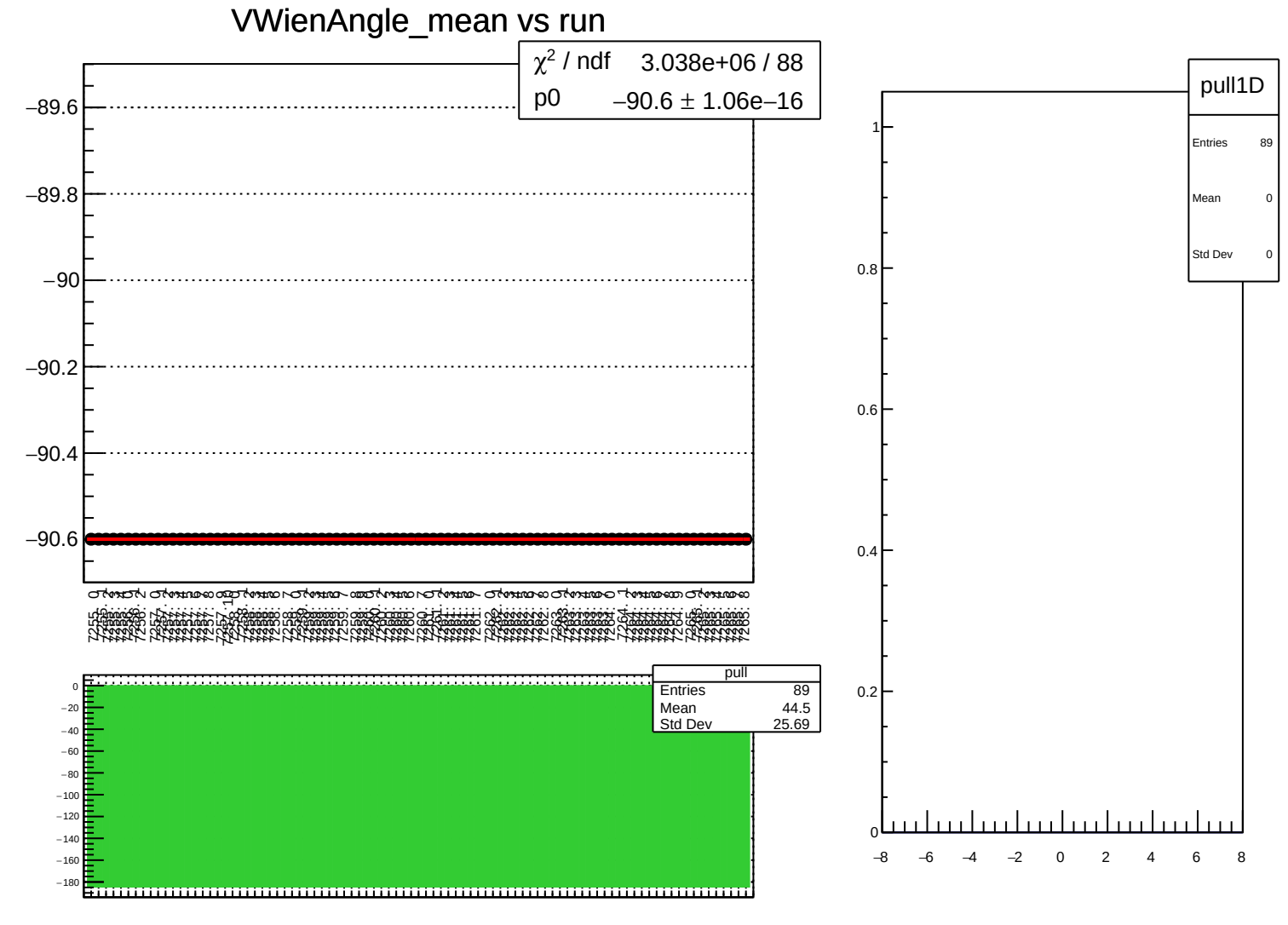

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.9e+26 / 88
p0 977.7 ± 1.06e−16
977.724
977.722
977.72
977.718
977.716
977.714
pull
Entries 89
Mean 1.465e+09
Std Dev 0
×10⁹
4000
2000
0
−2000
−4000

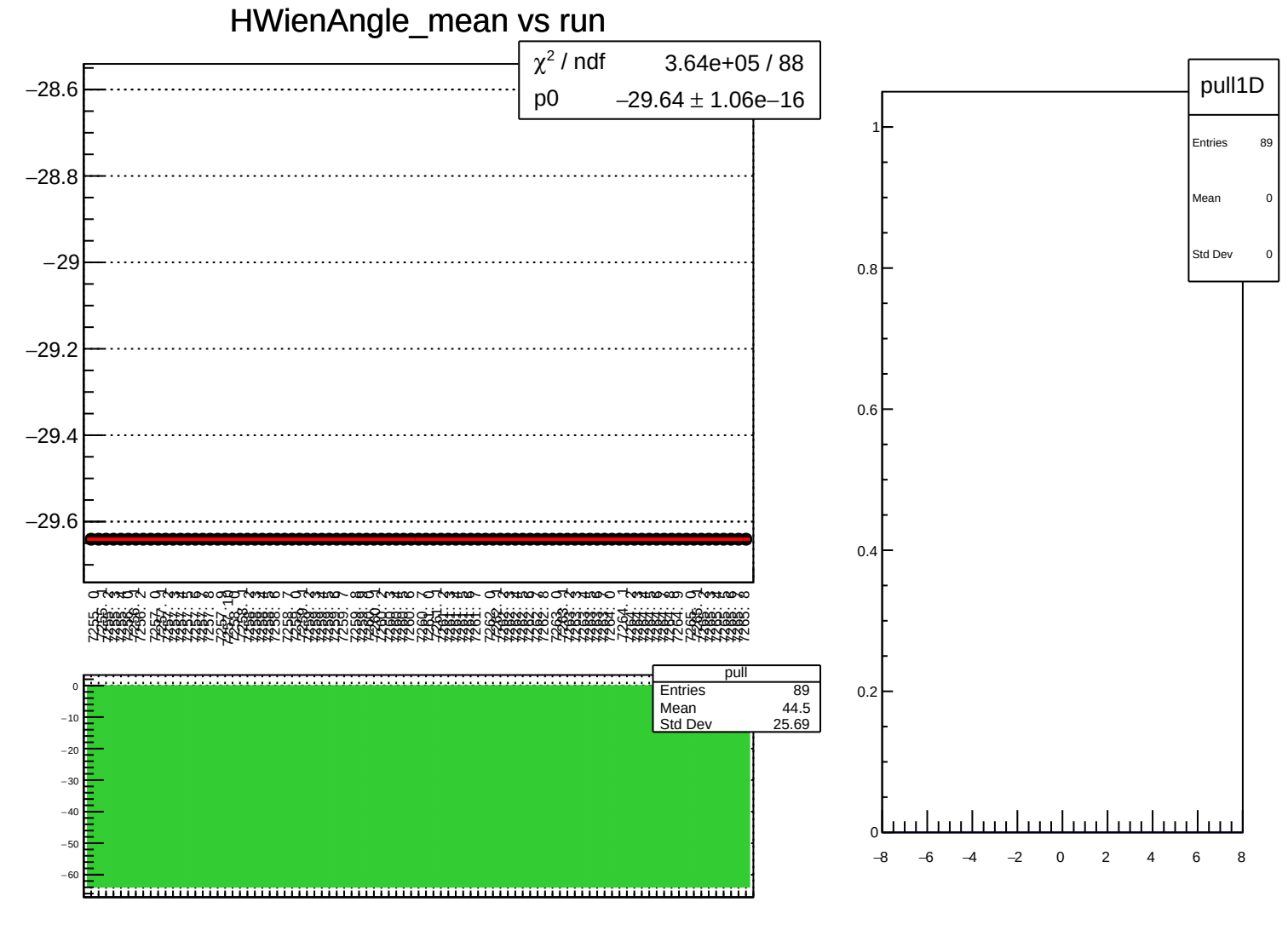

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

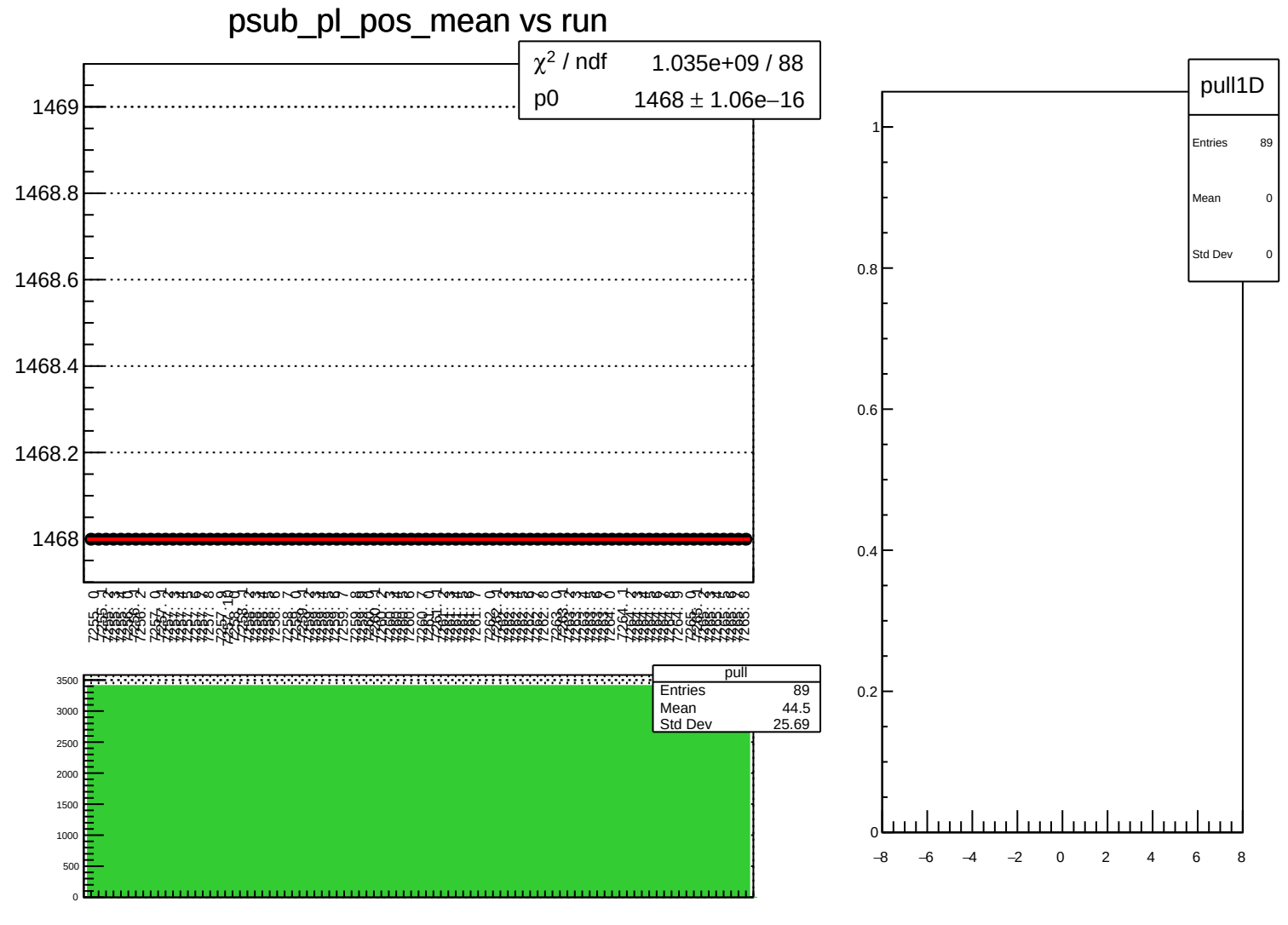

hesDipole_current_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69

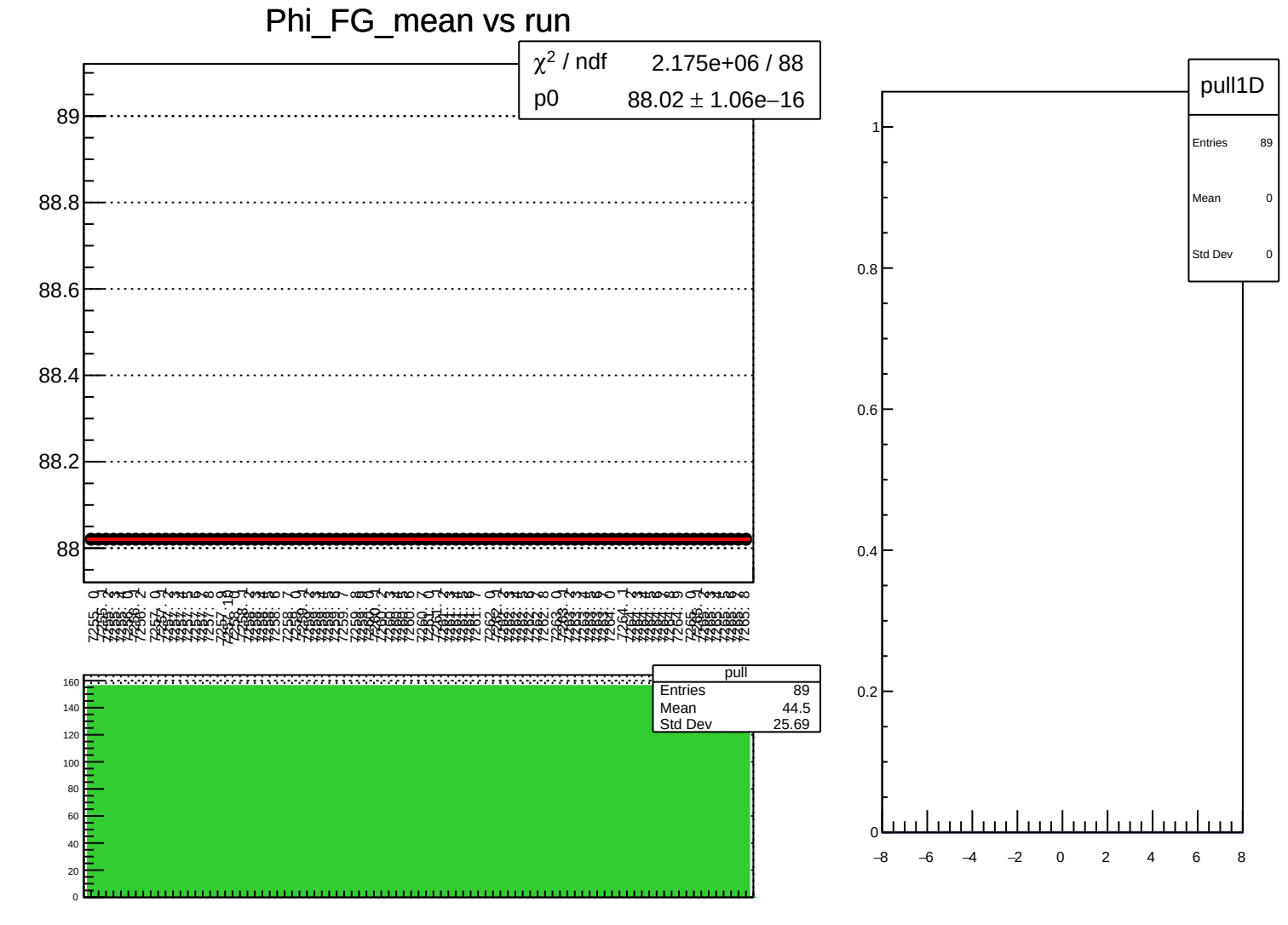

pull1D
Entries 89
Mean 0.02082
Std Dev 0

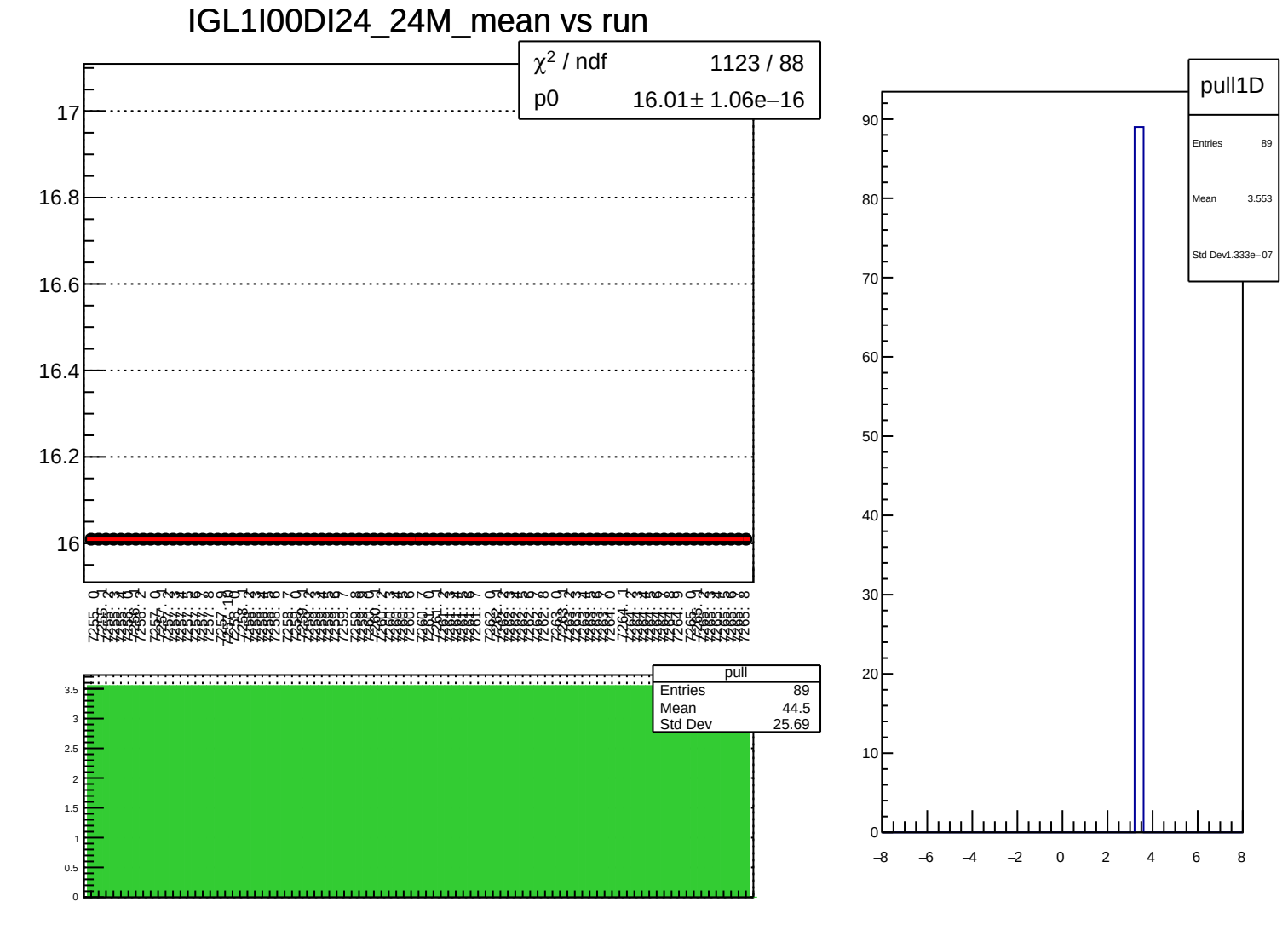

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
9.375
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0

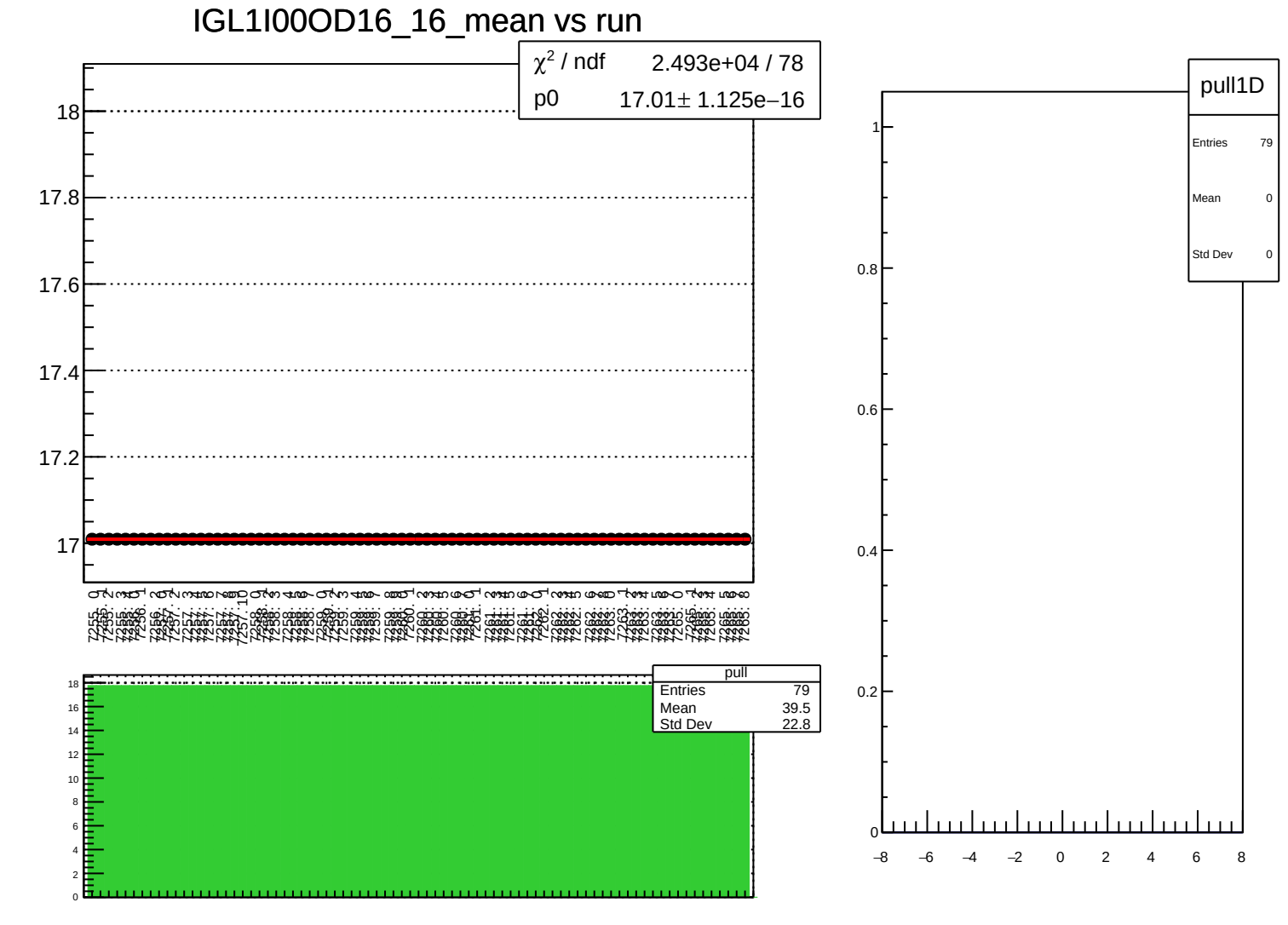

VWienAngle_mean vs run
χ² / ndf 3.038e+06 / 88
p0 −90.6 ± 1.06e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 89
Mean 44.5
Std Dev 25.69
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

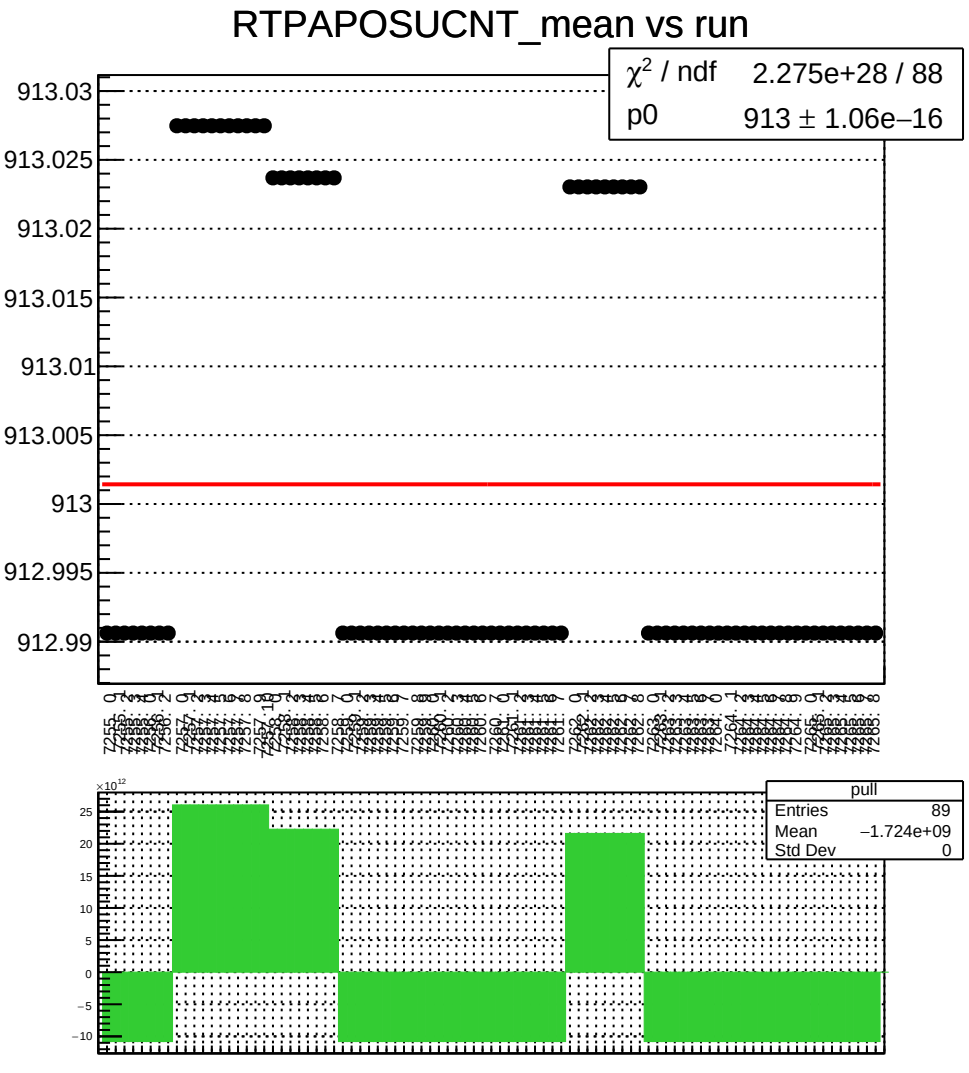

HWienAngle_mean vs run
χ² / ndf 3.64e+05 / 88
p0 −29.64 ± 1.06e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 89
Mean 44.5
Std Dev 25.69
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

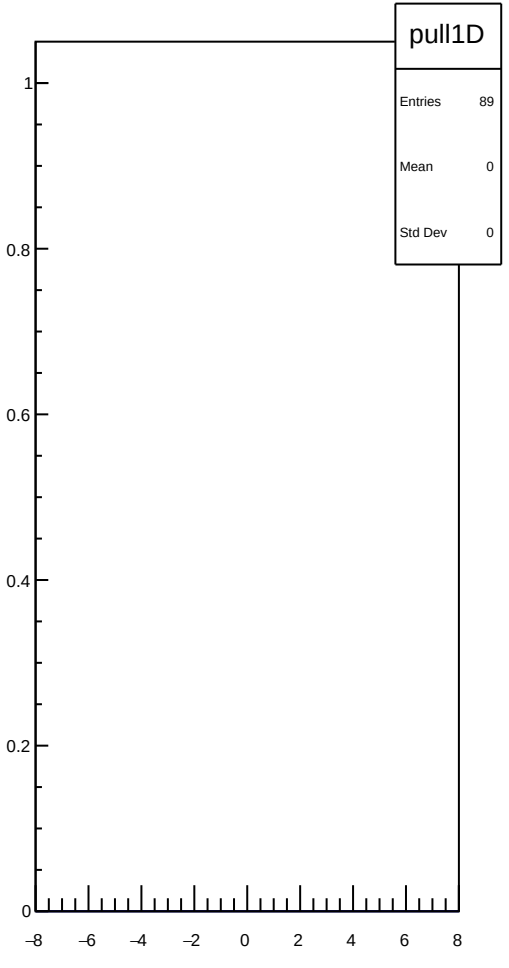

psub_pl_pos_mean vs run
χ² / ndf 1.035e+09 / 88
p0 1468 ± 1.06e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 89
Mean 44.5
Std Dev 25.69
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

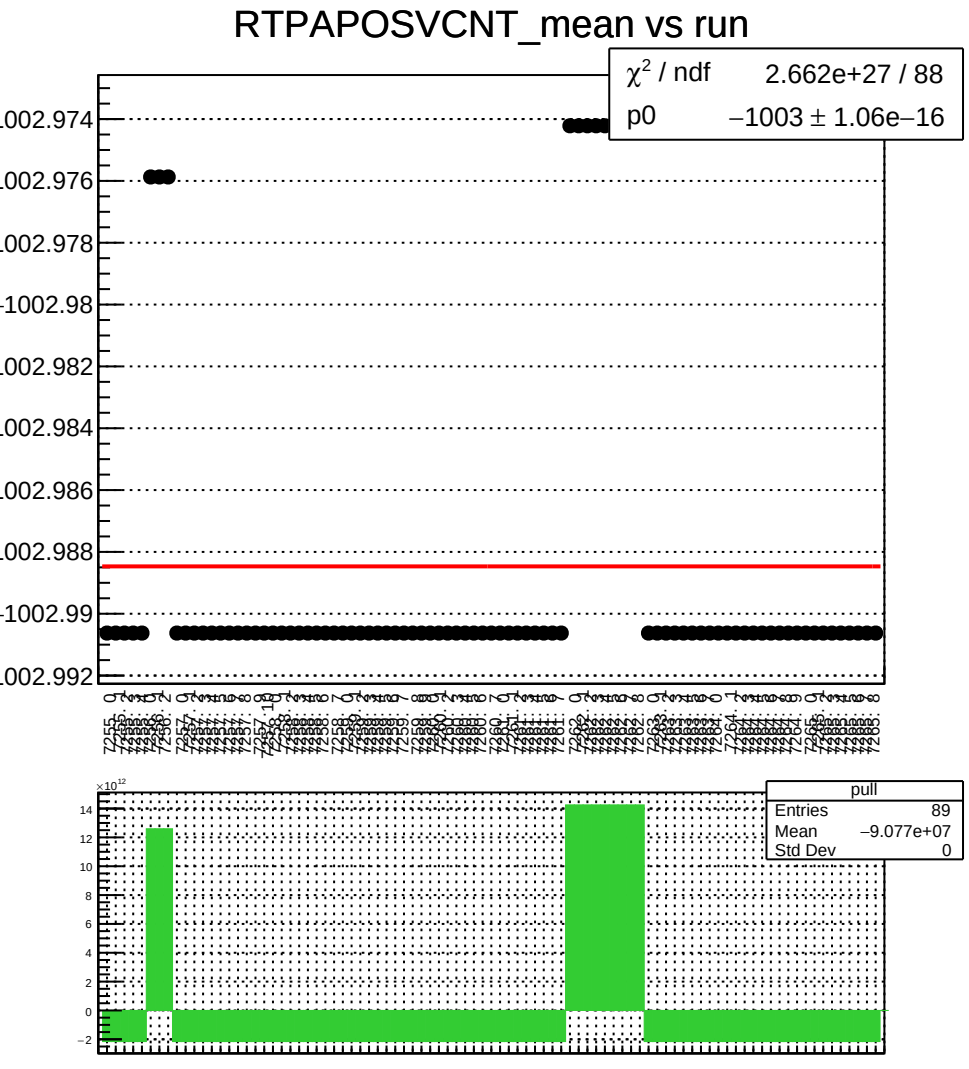

Phi_FG_mean vs run
χ² / ndf 2.175e+06 / 88
p0 88.02 ± 1.06e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 89
Mean 44.5
Std Dev 25.69
160
140
120
100
80
60
40
20
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

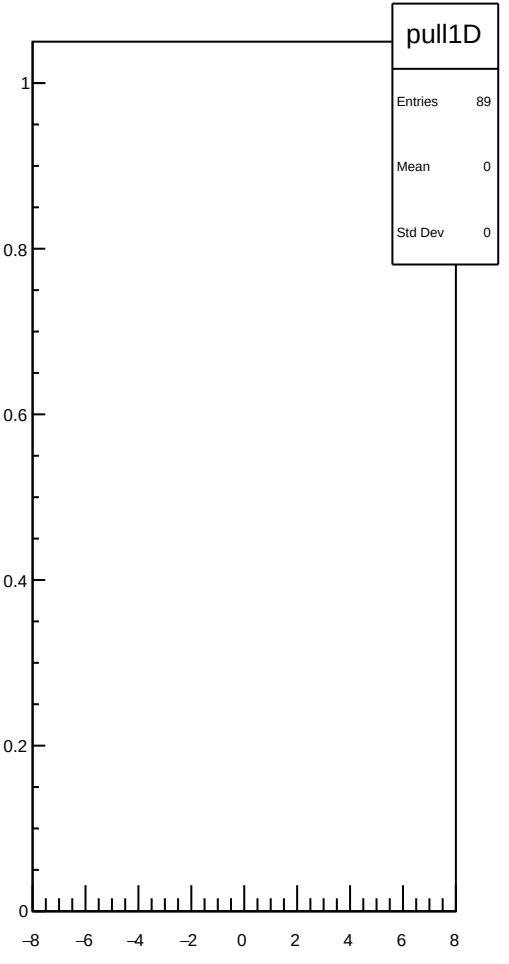

IGL1I00DI24_24M_mean vs run
χ² / ndf 1123 / 88
p0 16.01± 1.06e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 89
Mean 44.5
Std Dev 25.69
3.5
3
2.5
2
1.5
1
0.5
0
pull1D
Entries 89
Mean 3.553
Std Dev1.333e−07
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

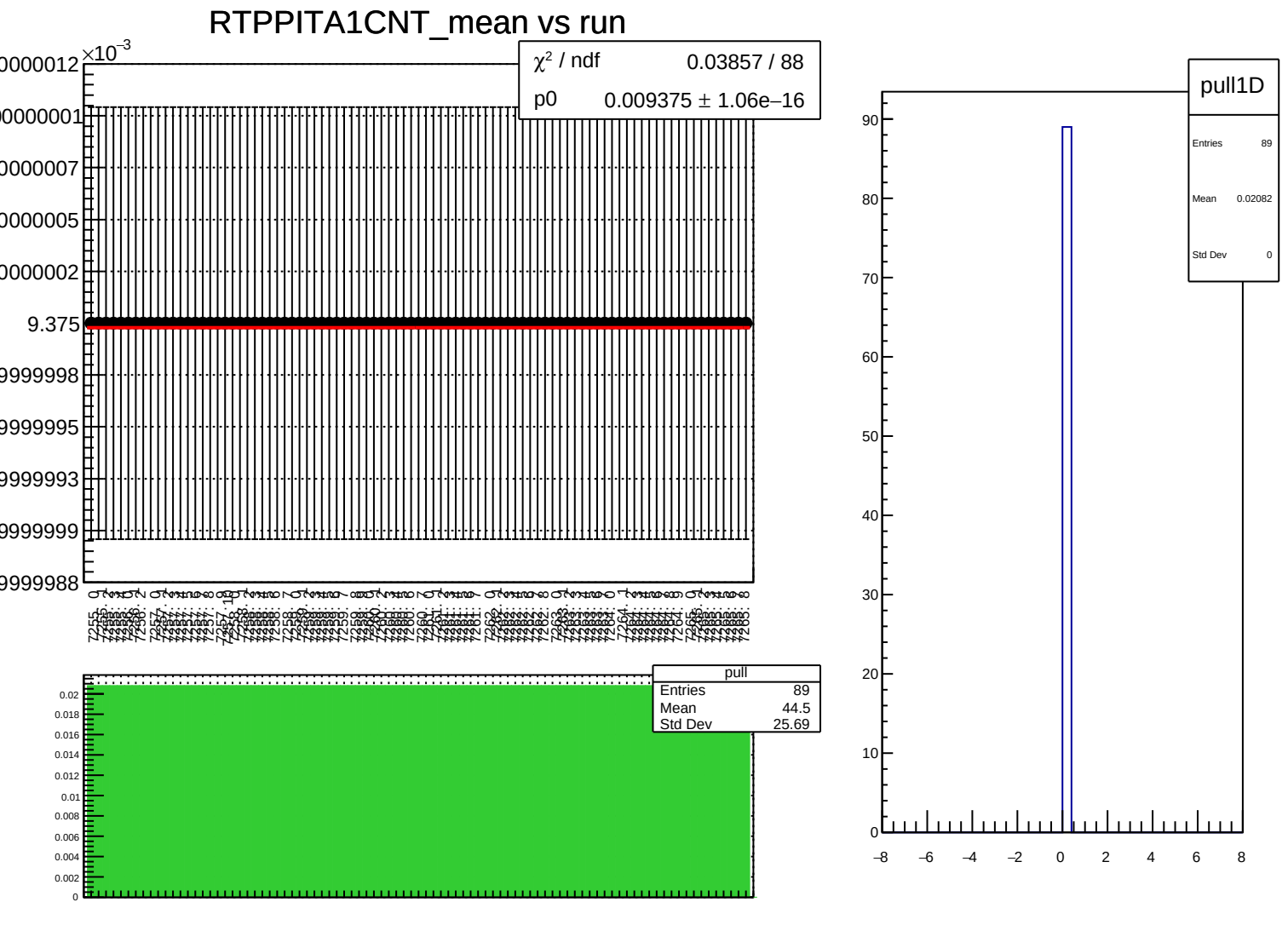

IGL1I00OD16_16_mean vs run
χ² / ndf 2.493e+04 / 78
p0 17.01± 1.125e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 79
Mean 39.5
Std Dev 22.8
pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

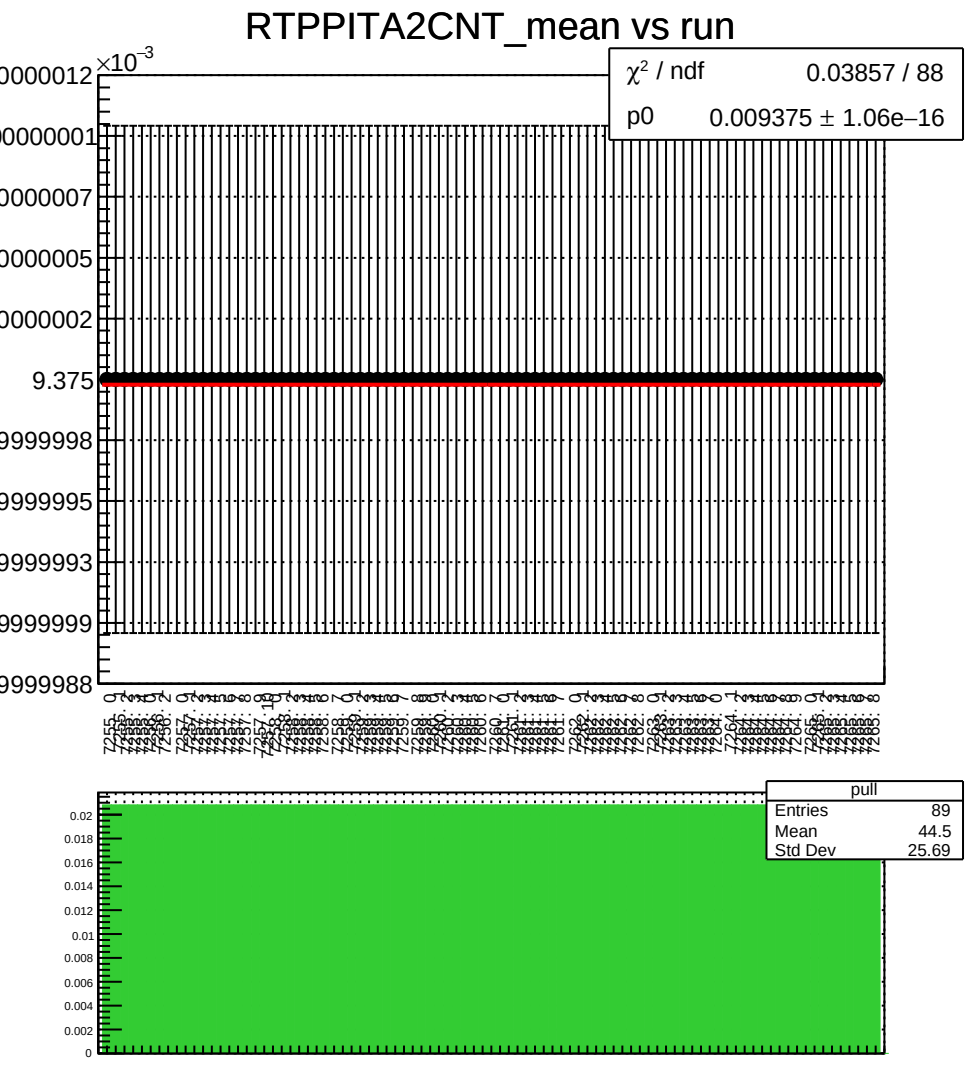

RTPAPOSUCNT_mean vs run
χ² / ndf 2.275e+28 / 88
p0 913 ± 1.06e−16
913.03
913.025
913.02
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 89
Mean −1.724e+09
Std Dev 0
×10¹²
25
20
15
10
5
0
−5
−10

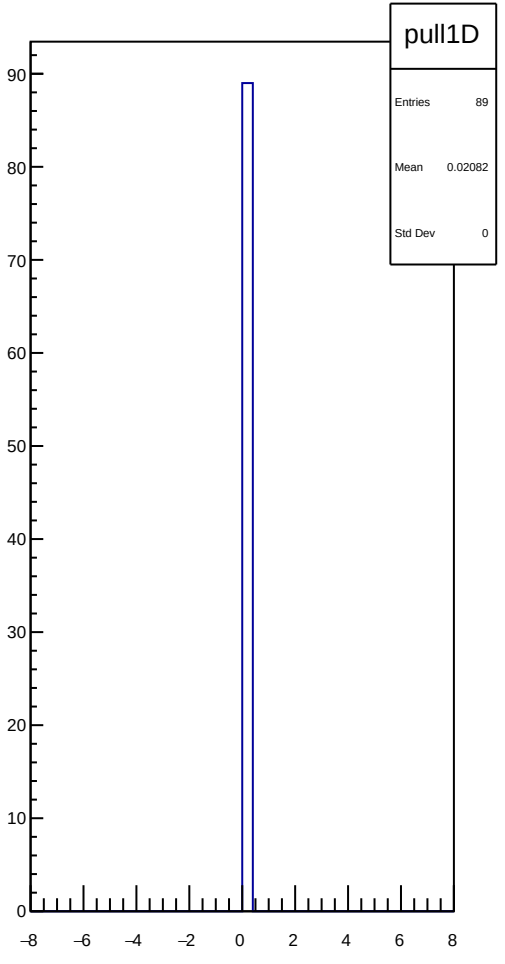

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 2.662e+27 / 88
p0 −1003 ± 1.06e−16
−1002.974
−1002.976
−1002.978
−1002.98
−1002.982
−1002.984
−1002.986
−1002.988
−1002.99
−1002.992
pull
Entries 89
Mean −9.077e+07
Std Dev 0
×10¹²
14
12
10
8
6
4
2
0
−2


pull1D
Entries 89
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 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
9.375
pull
Entries 89
Mean 44.5
Std Dev 25.69


pull1D
Entries 89
Mean 0.02082
Std Dev 0