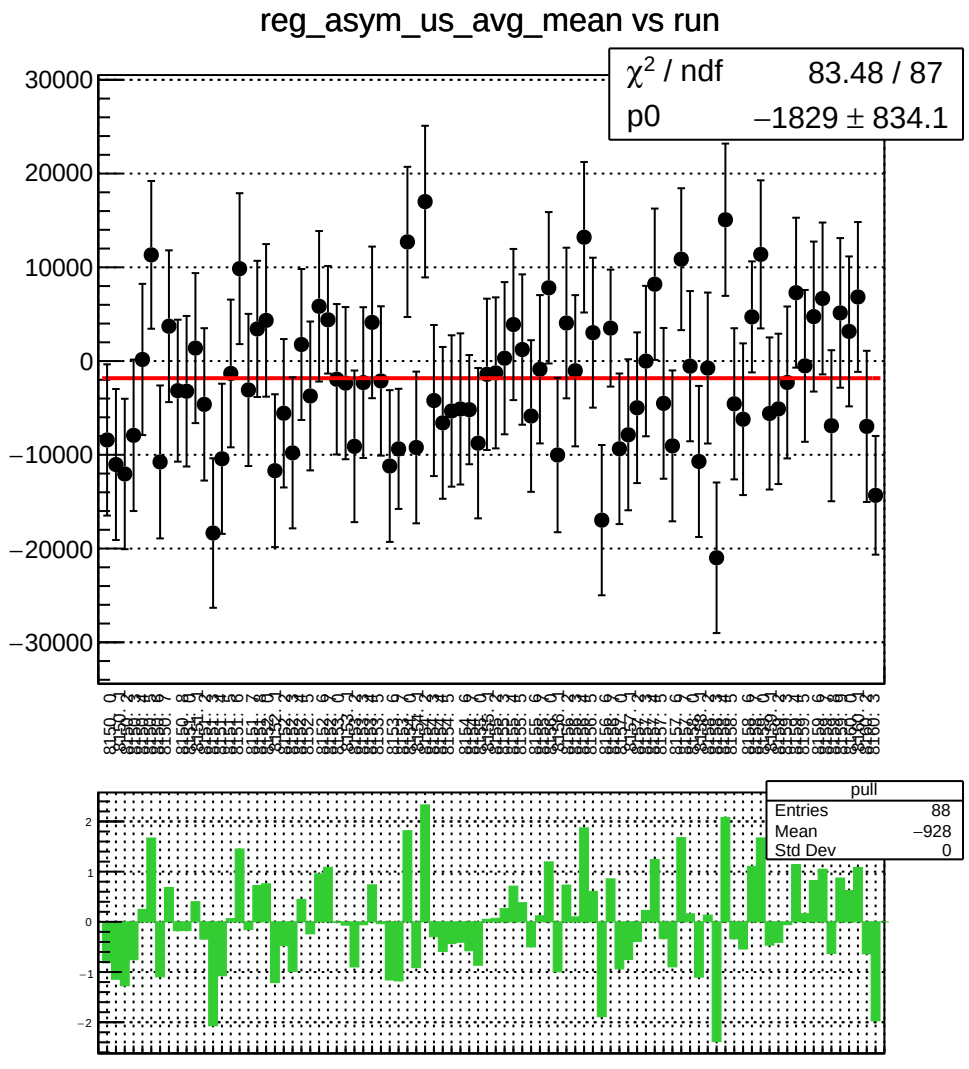
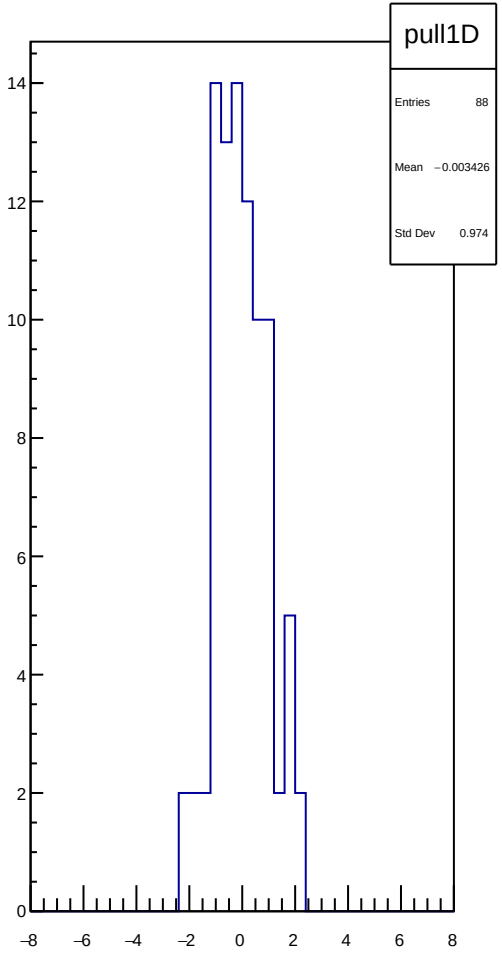
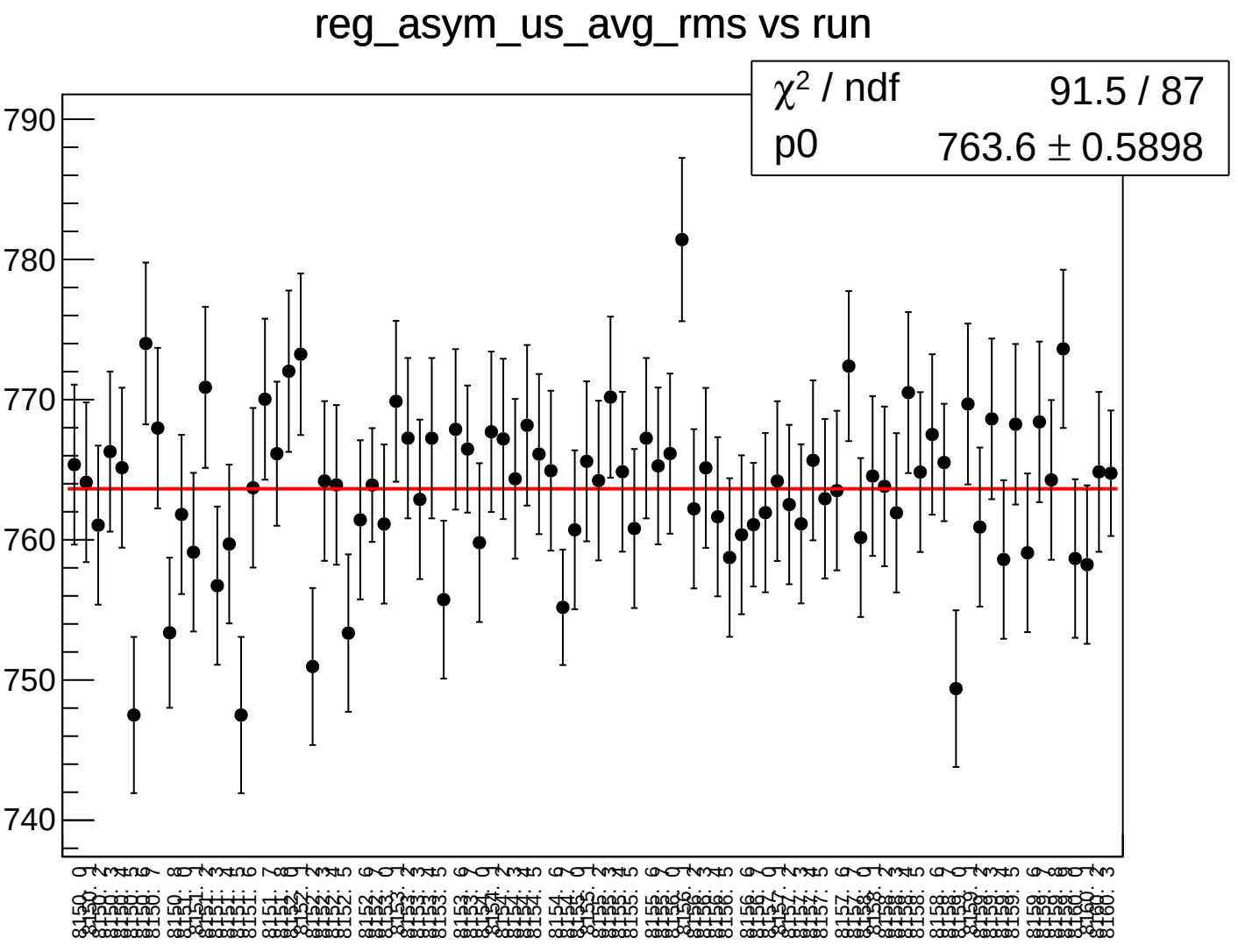
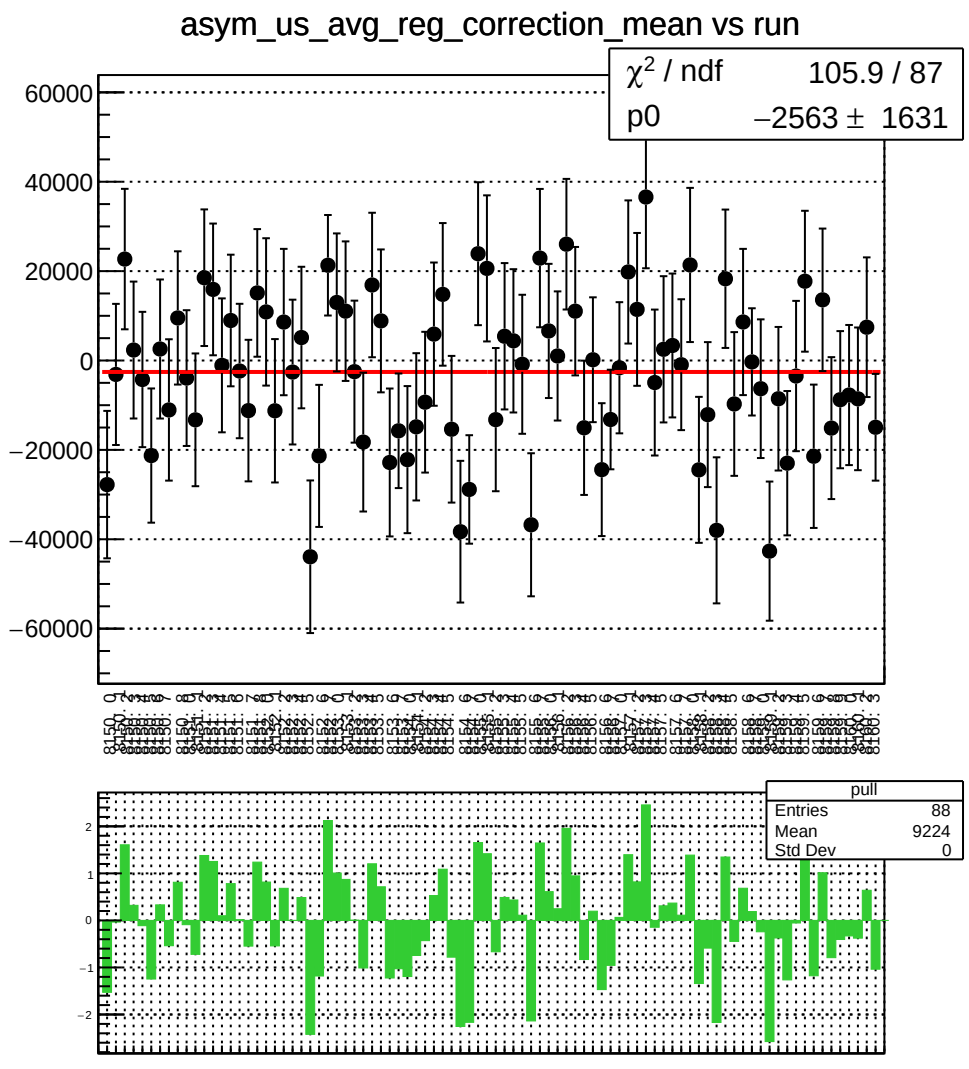
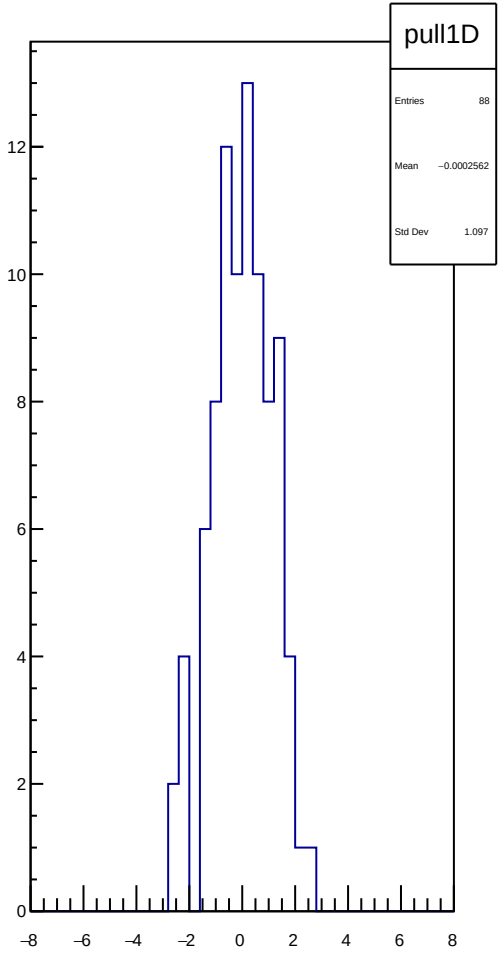
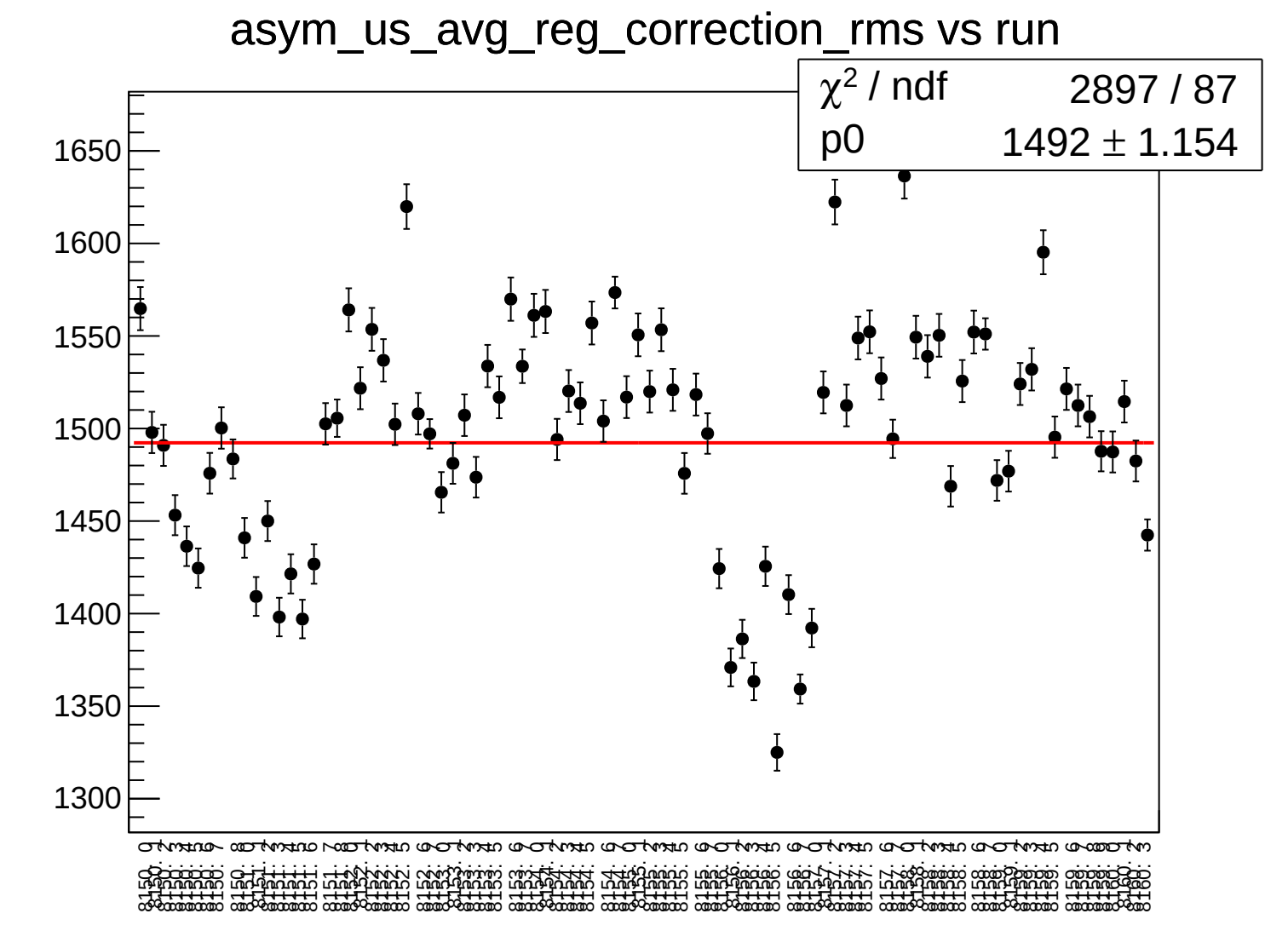

reg_asym_us_avg_mean vs run
χ² / ndf 83.48 / 87
p0 −1829 ± 834.1
pull
Entries 88
Mean −928
Std Dev 0

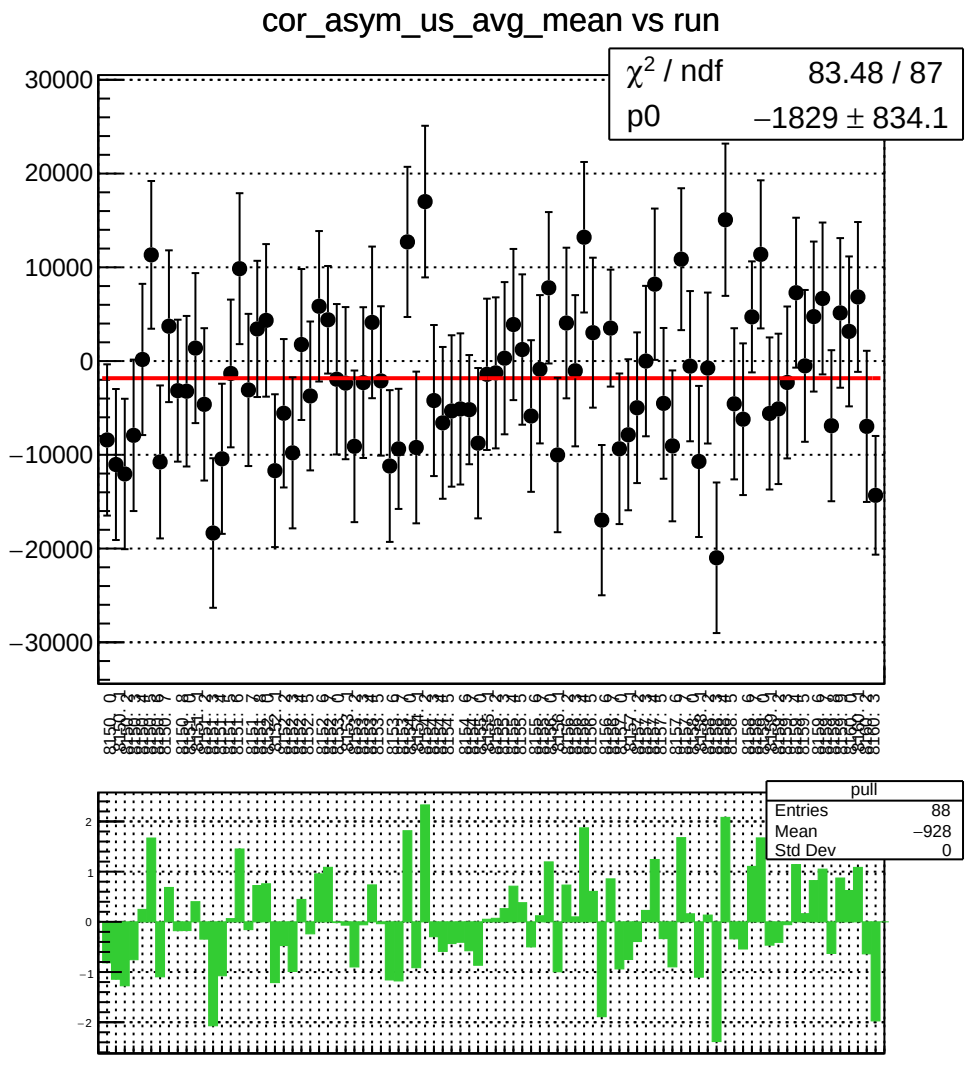

pull1D
Entries 88
Mean −0.003426
Std Dev 0.974

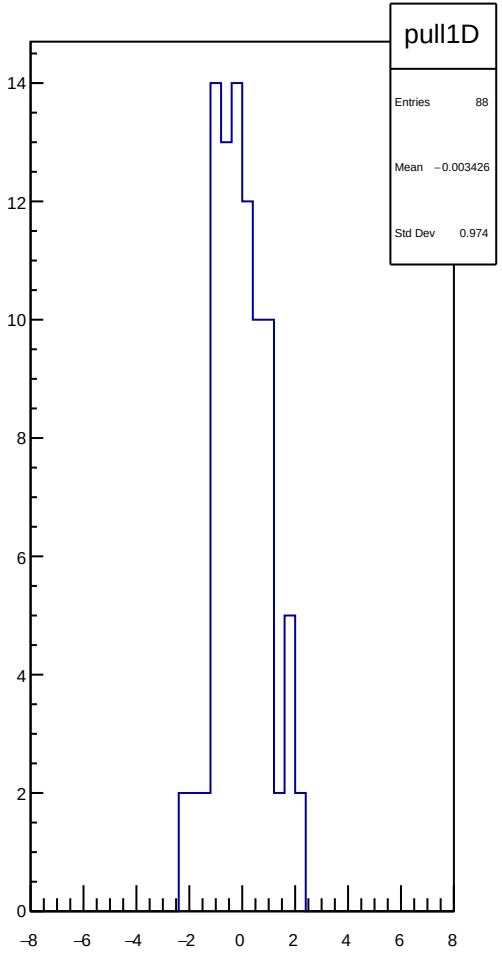

reg_asym_us_avg_rms vs run
χ^2 / ndf 91.5 / 87
p0 763.6 ± 0.5898
790
780
770
760
750
740

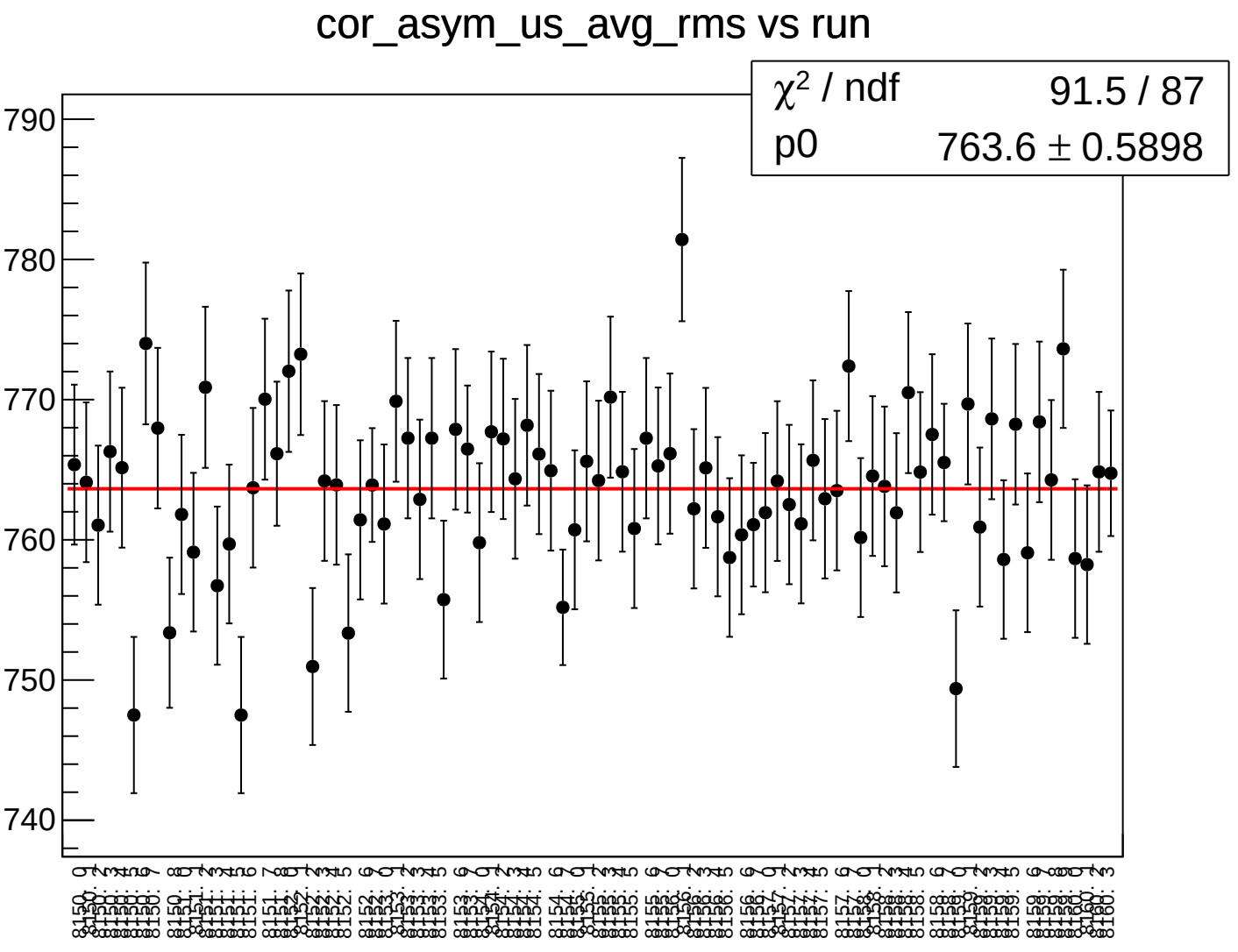

asym_us_avg_reg_correction_mean vs run
χ² / ndf 105.9 / 87
p0 −2563 ± 1631
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 9224
Std Dev 0
2
1
0
−1
−2

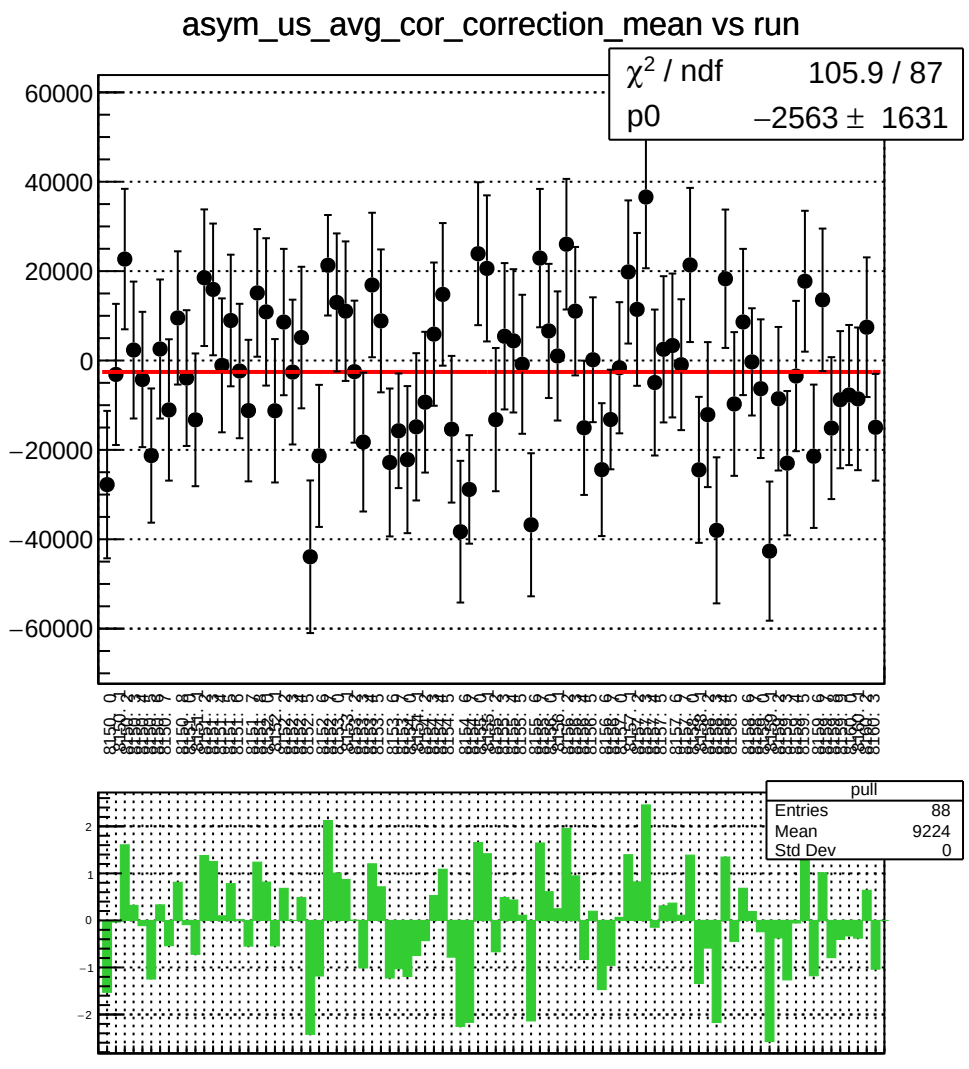

pull1D
Entries 88
Mean −0.0002562
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

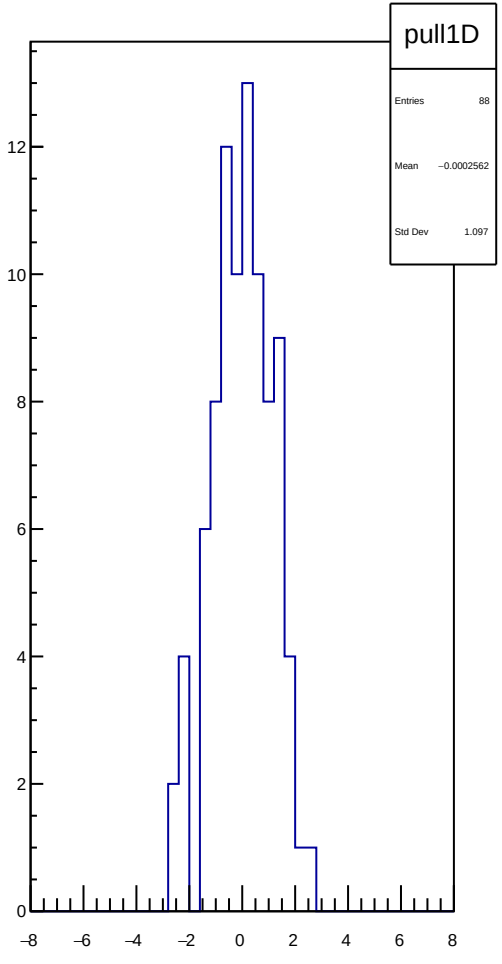

asym_us_avg_reg_correction_rms vs run
χ² / ndf 2897 / 87
p0 1492 ± 1.154
1650
1600
1550
1500
1450
1400
1350
1300

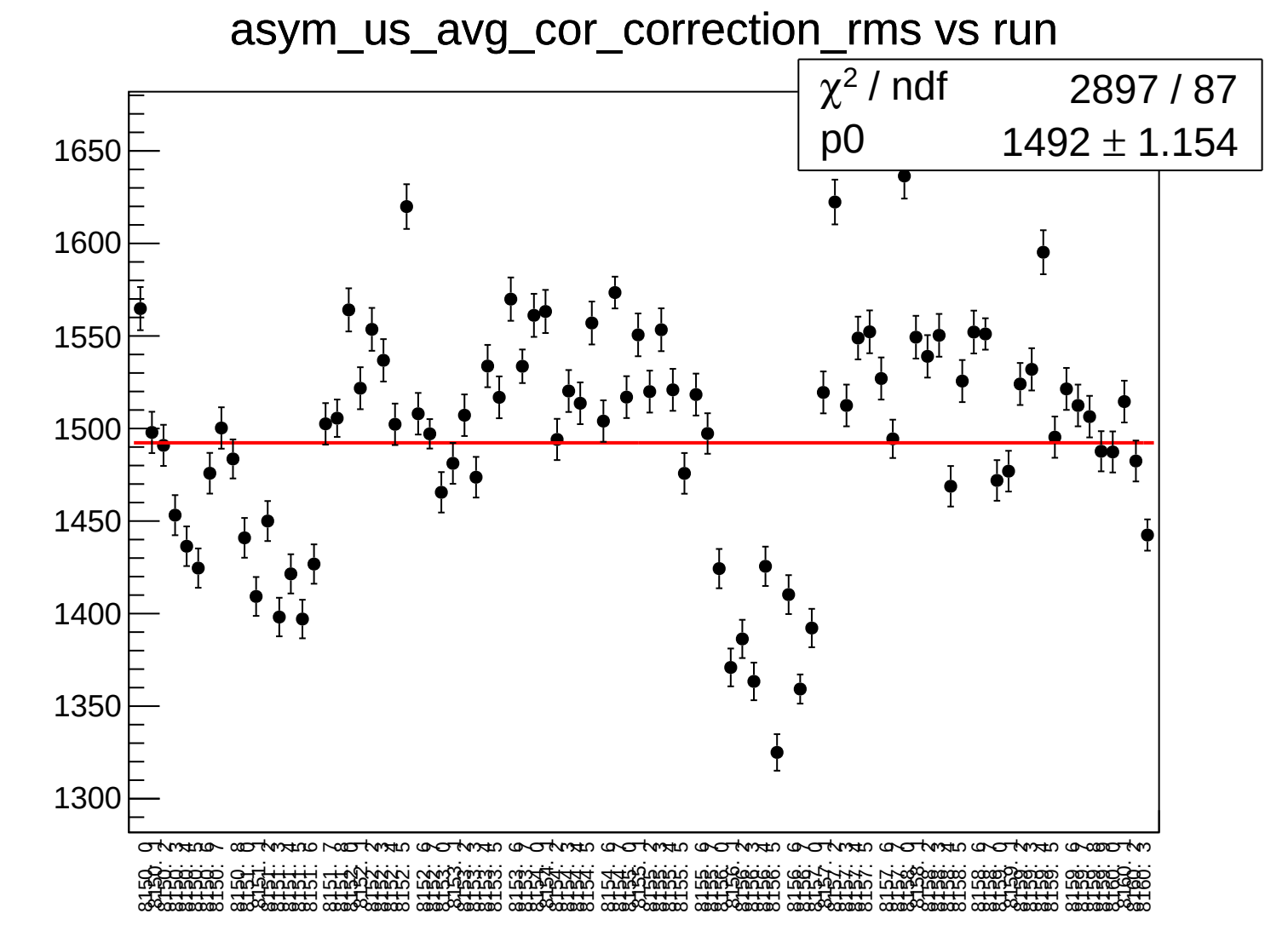

cor_asym_us_avg_mean vs run
χ² / ndf 83.48 / 87
p0 −1829 ± 834.1
pull
Entries 88
Mean −928
Std Dev 0

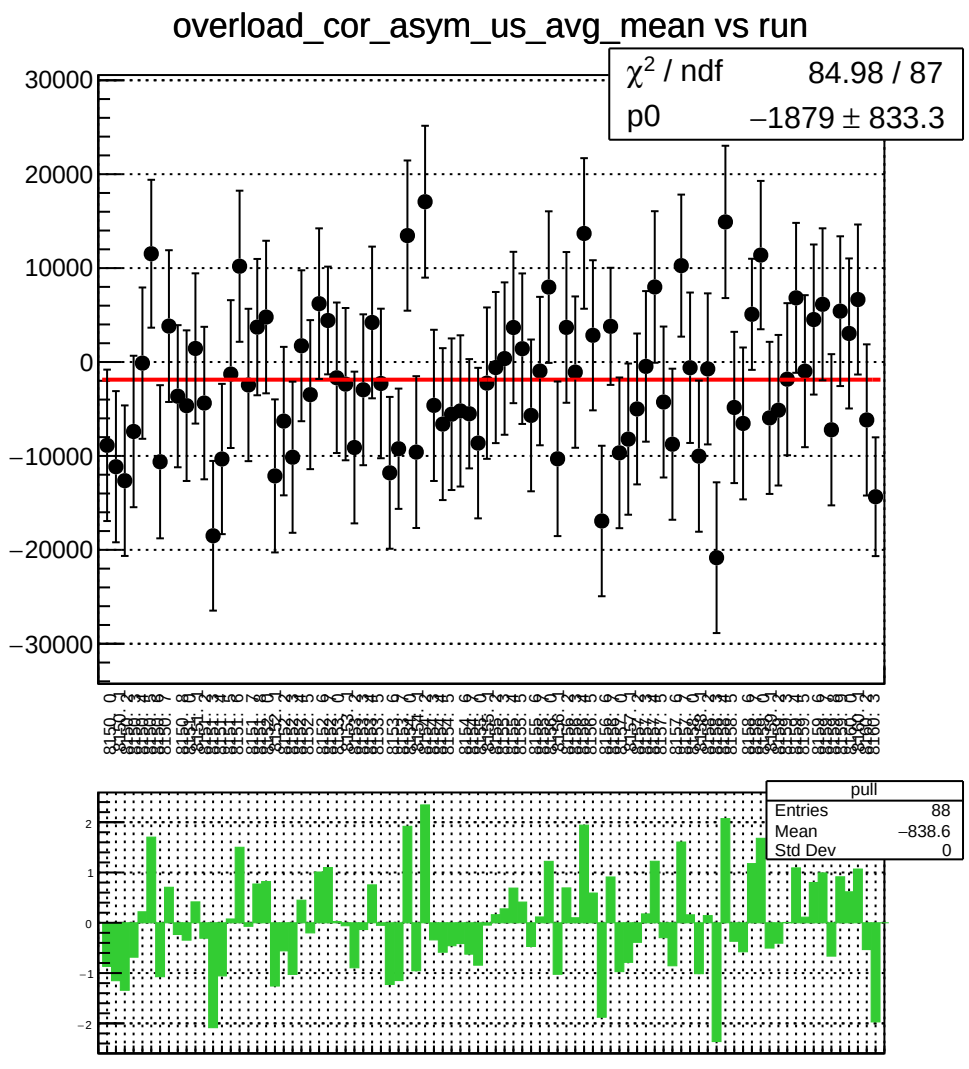

pull1D
Entries 88
Mean −0.003426
Std Dev 0.974

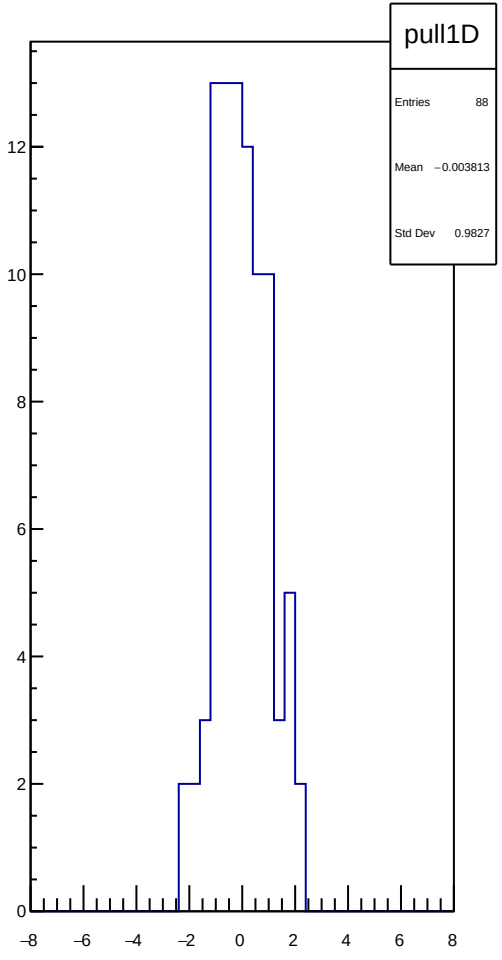

cor_asym_us_avg_rms vs run
χ² / ndf 91.5 / 87
p0 763.6 ± 0.5898
790
780
770
760
750
740

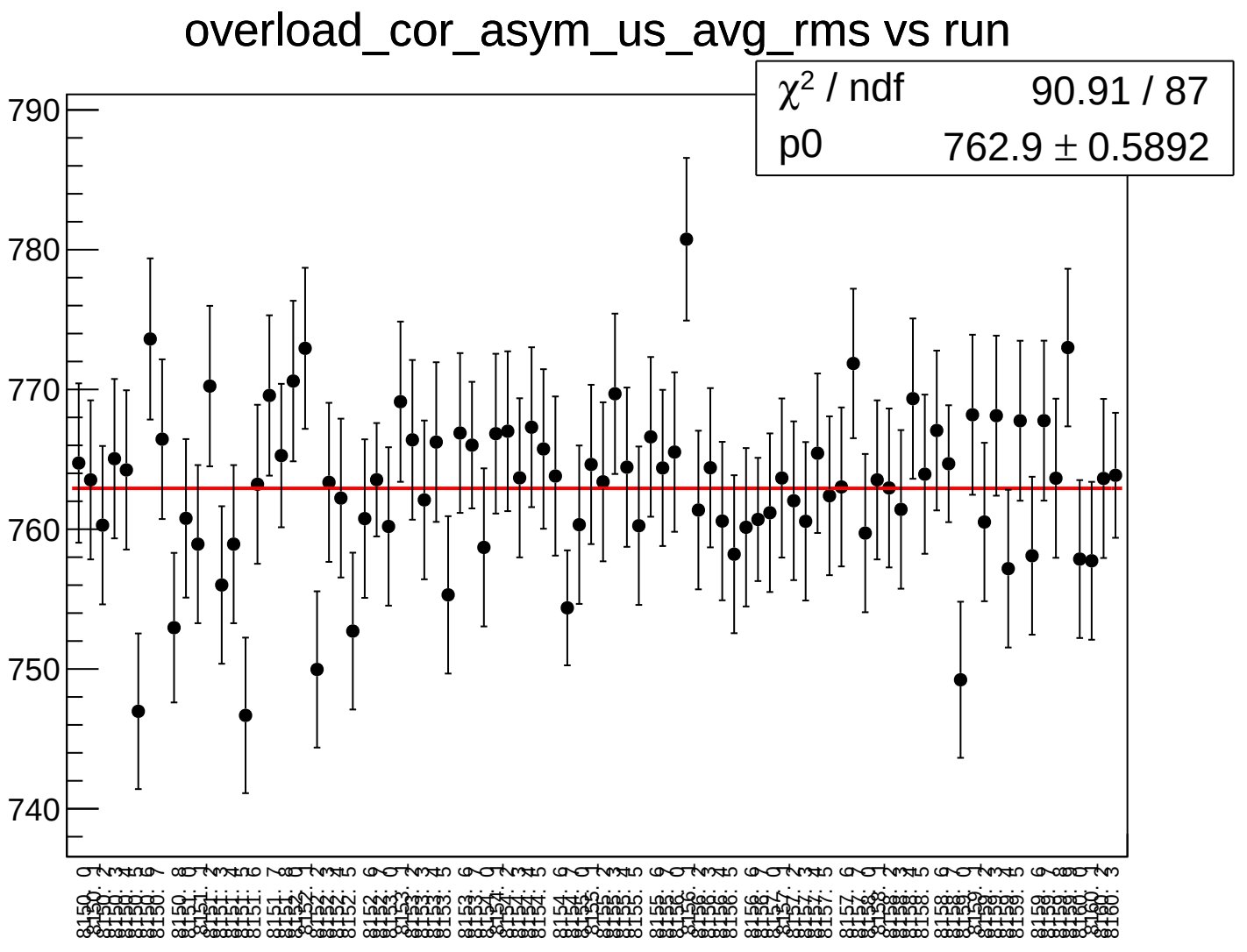

asym_us_avg_cor_correction_mean vs run
χ² / ndf 105.9 / 87
p0 −2563 ± 1631
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 9224
Std Dev 0
2
1
0
−1
−2

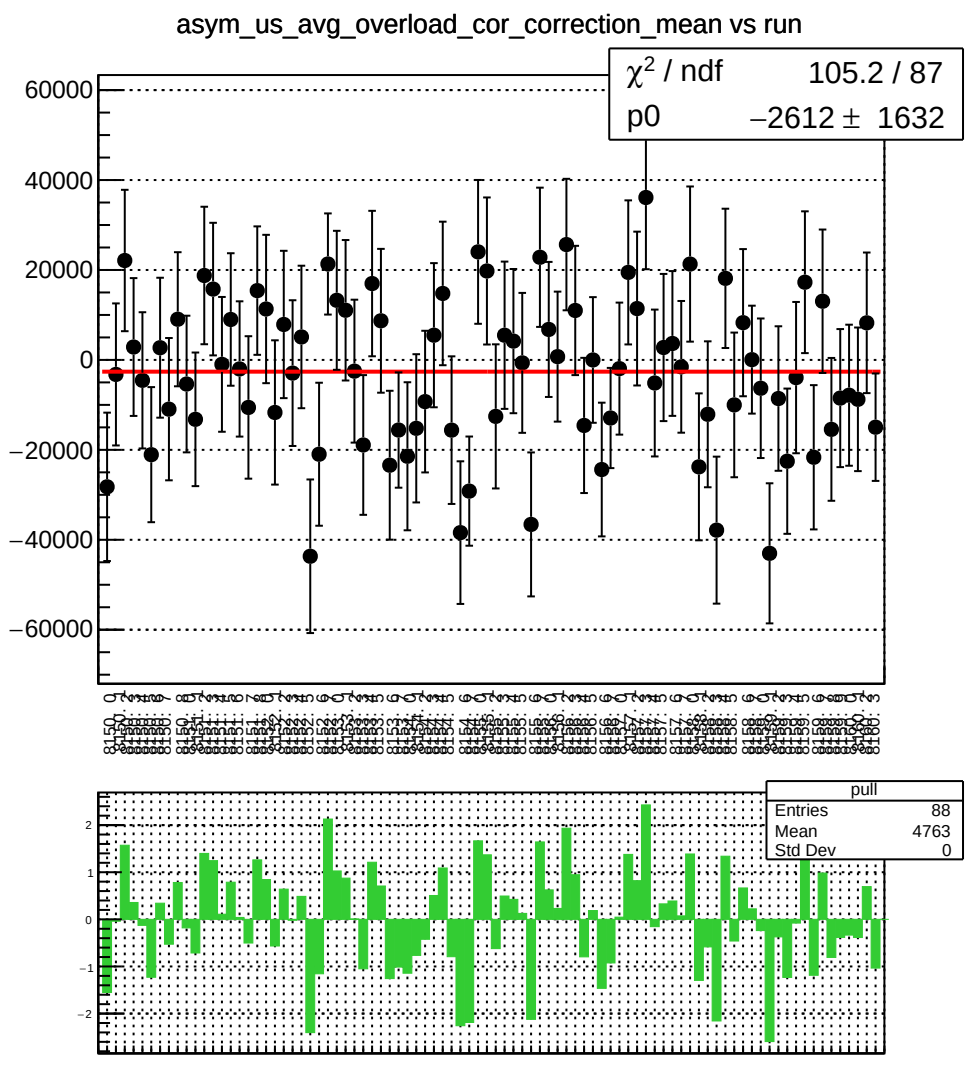

pull1D
Entries 88
Mean −0.0002562
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

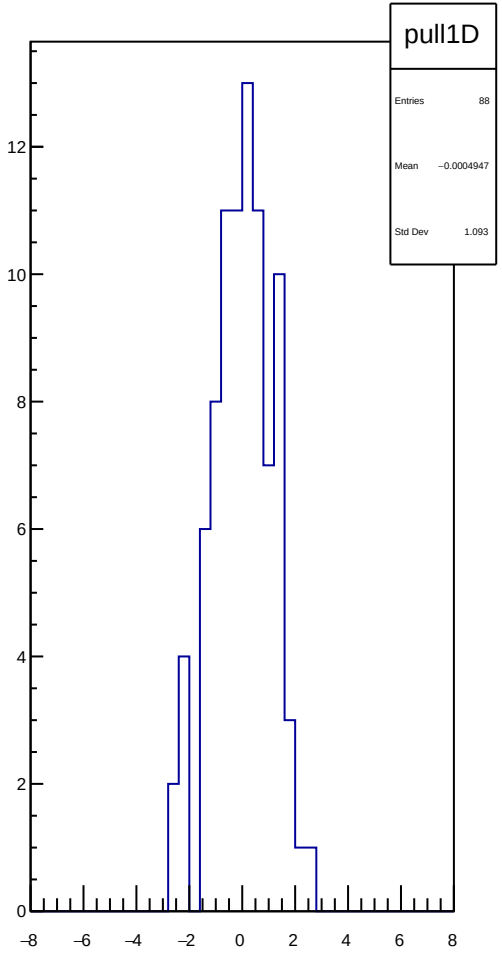

asym_us_avg_cor_correction_rms vs run
χ² / ndf 2897 / 87
p0 1492 ± 1.154
1650
1600
1550
1500
1450
1400
1350
1300

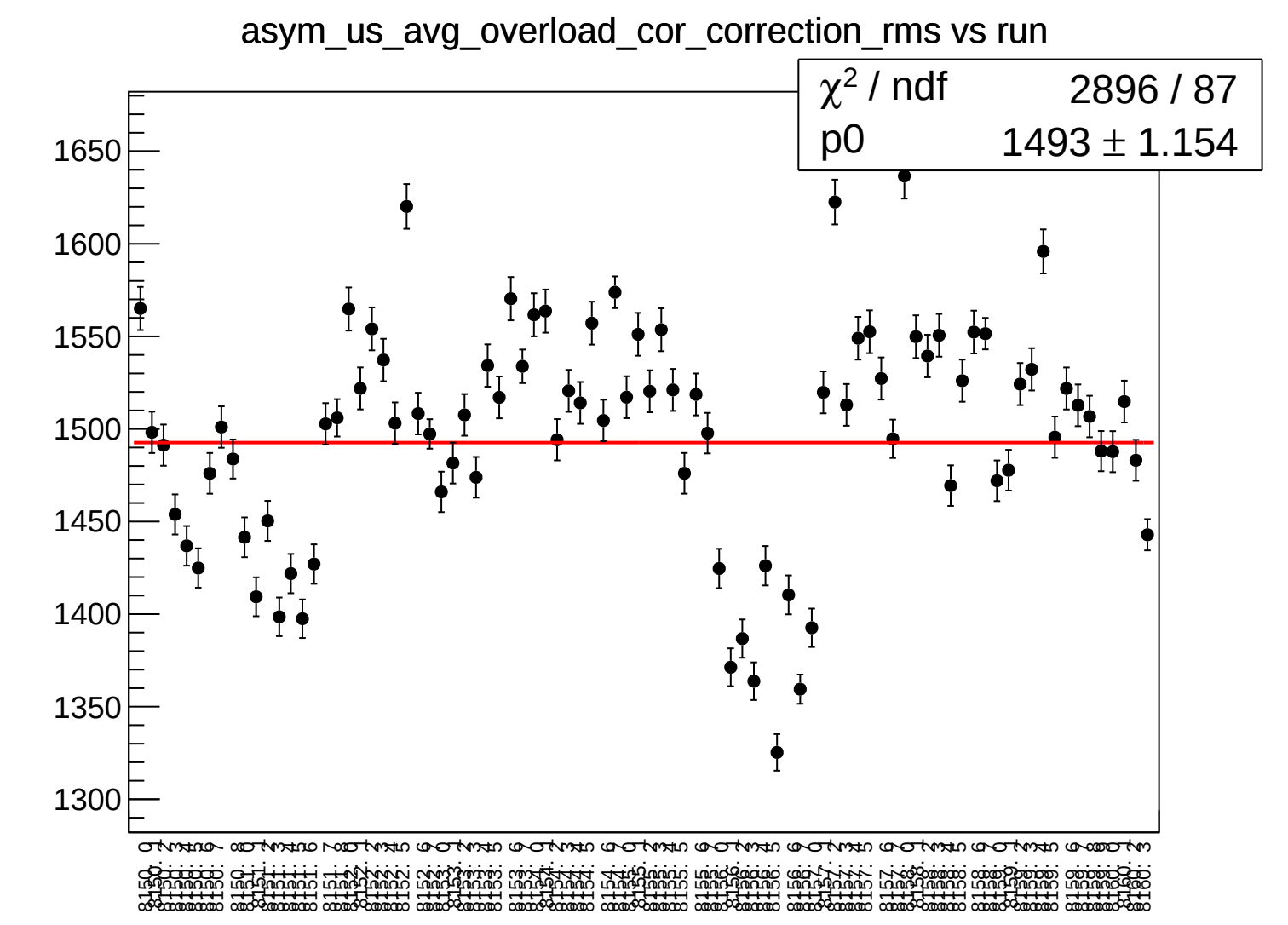

overload_cor_asym_us_avg_mean vs run
χ² / ndf 84.98 / 87
p0 −1879 ± 833.3
pull
Entries 88
Mean −838.6
Std Dev 0

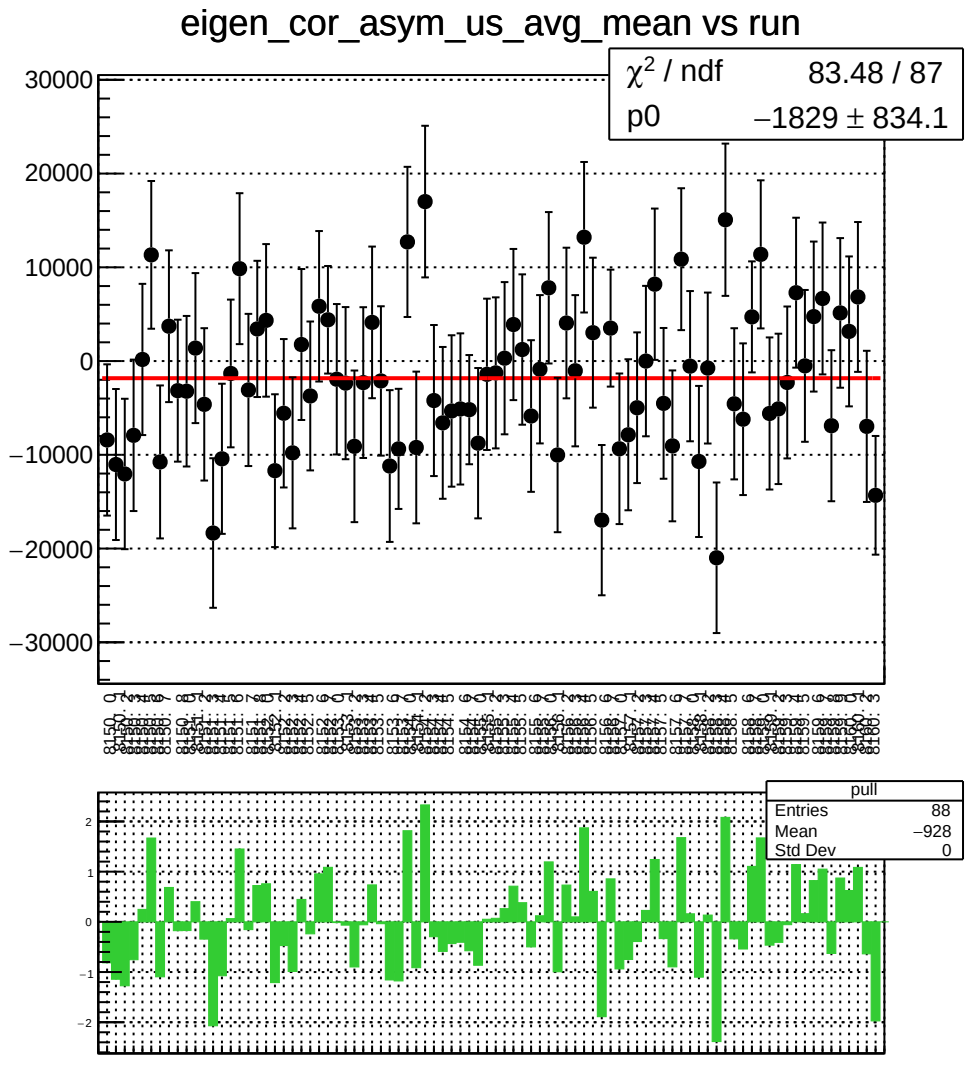

pull1D
Entries 88
Mean −0.003813
Std Dev 0.9827

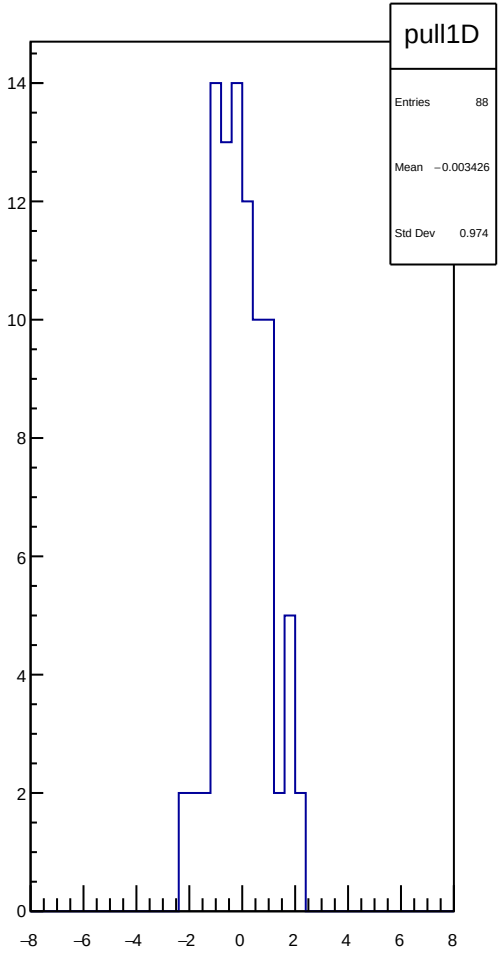

overload_cor_asym_us_avg_rms vs run
χ² / ndf 90.91 / 87
p0 762.9 ± 0.5892
790
780
770
760
750
740

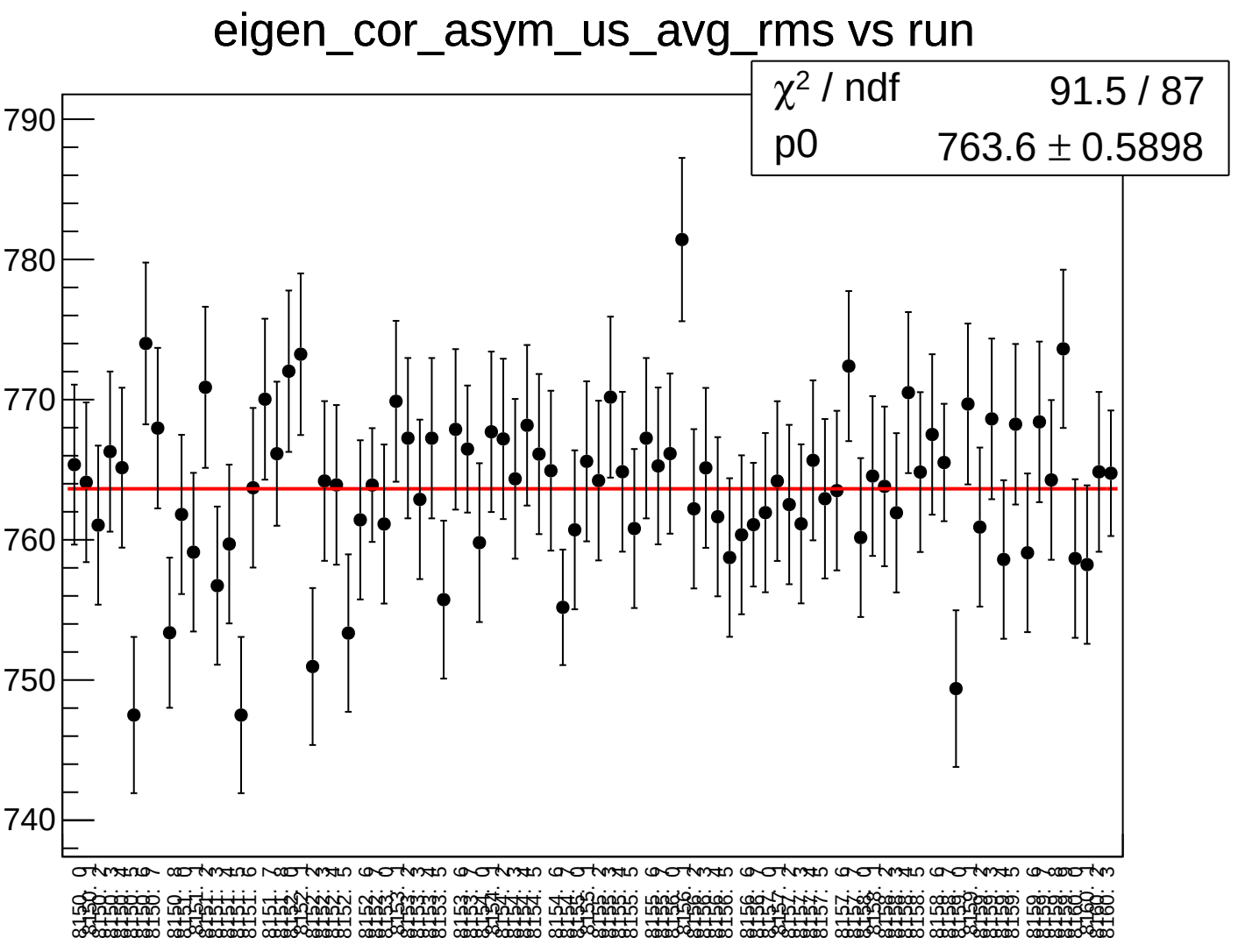

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 105.2 / 87
p0 −2612 ± 1632
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 4763
Std Dev 0
2
1
0
−1
−2

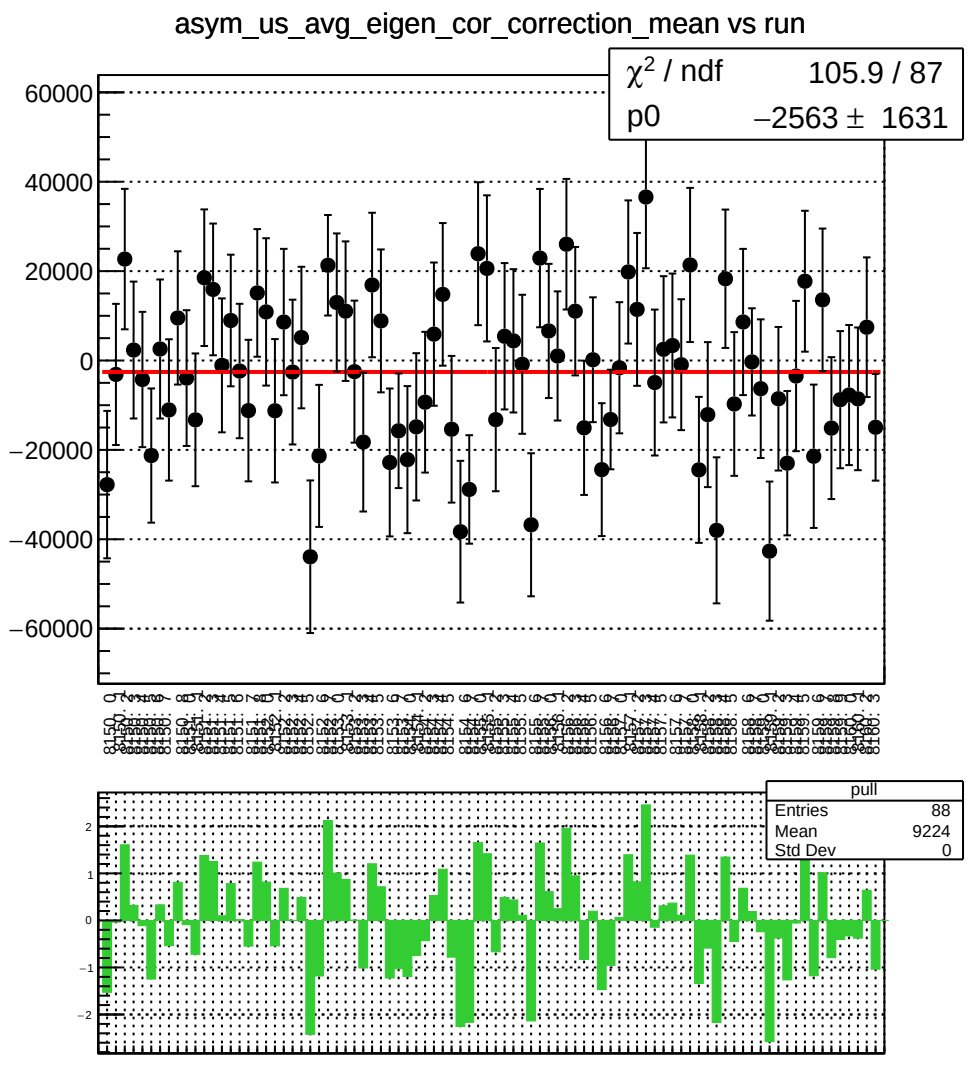

pull1D
Entries 88
Mean −0.0004947
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

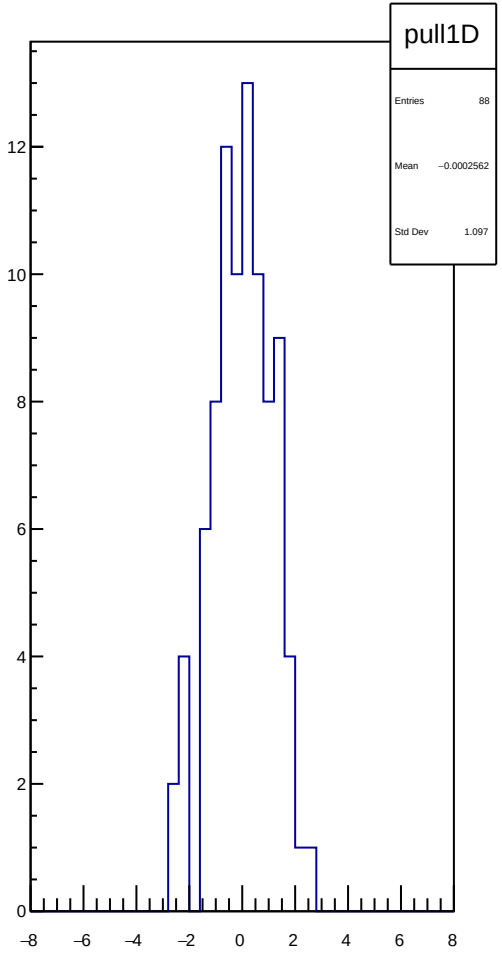

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 2896 / 87
p0 1493 ± 1.154
1650
1600
1550
1500
1450
1400
1350
1300

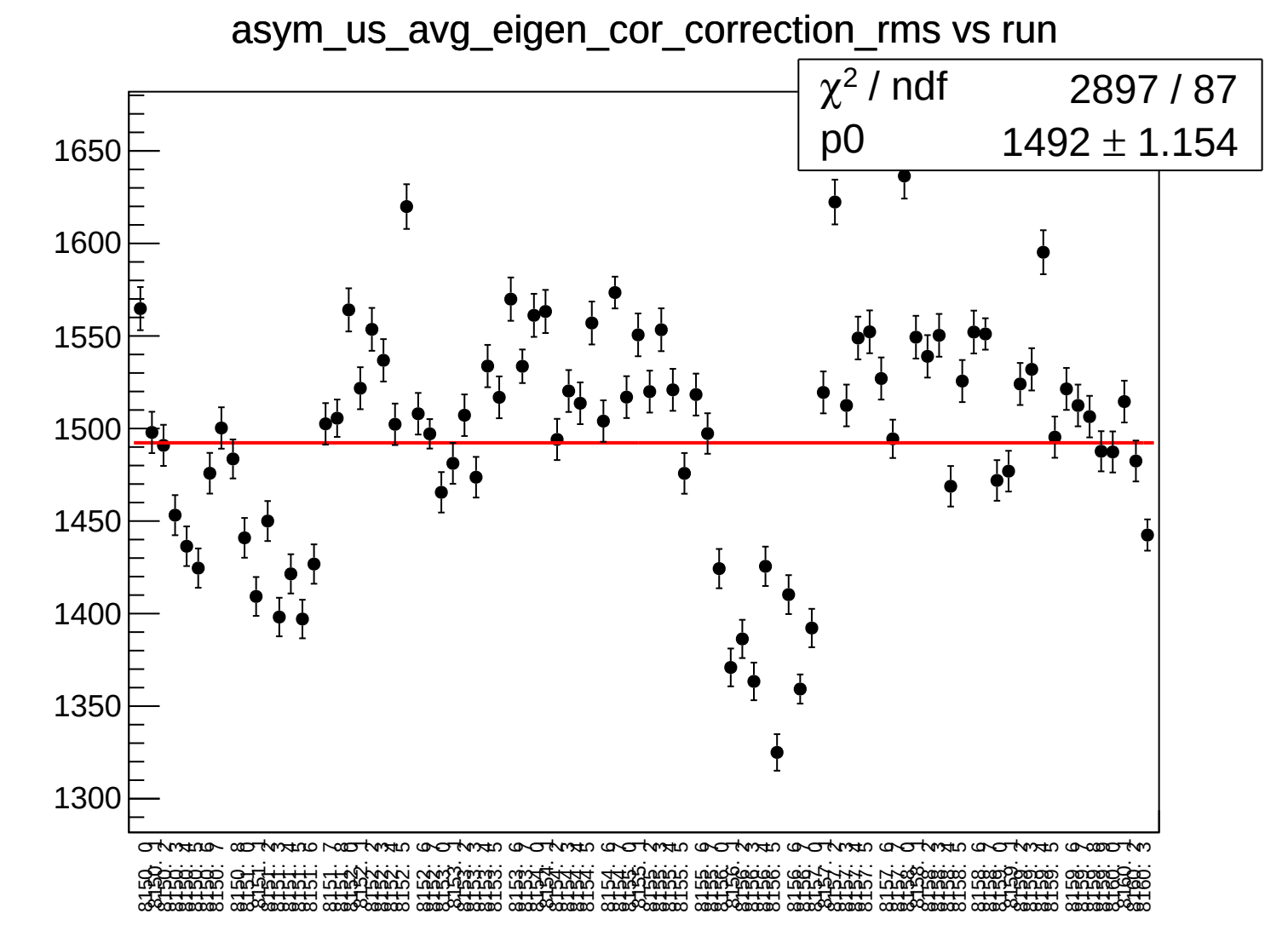

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 83.48 / 87
p0 −1829 ± 834.1
pull
Entries 88
Mean −928
Std Dev 0

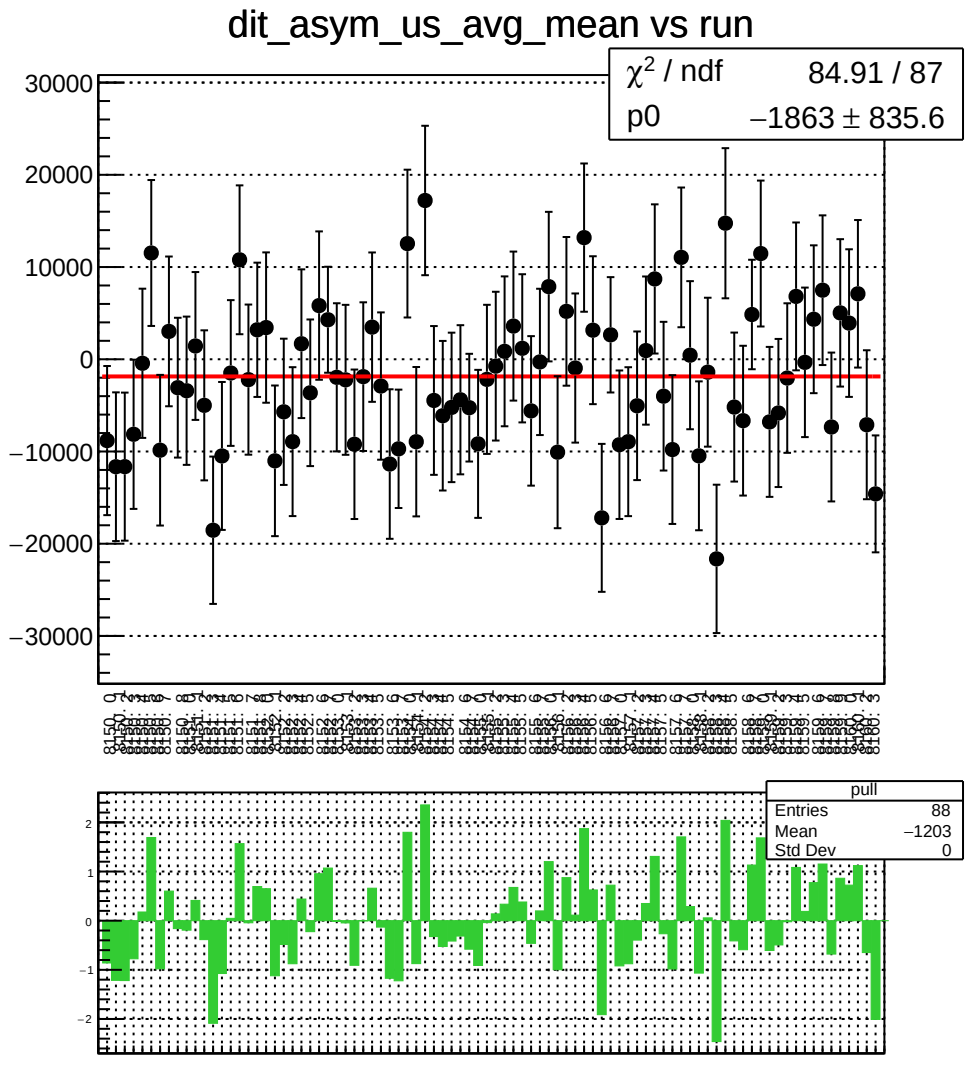

pull1D
Entries 88
Mean −0.003426
Std Dev 0.974

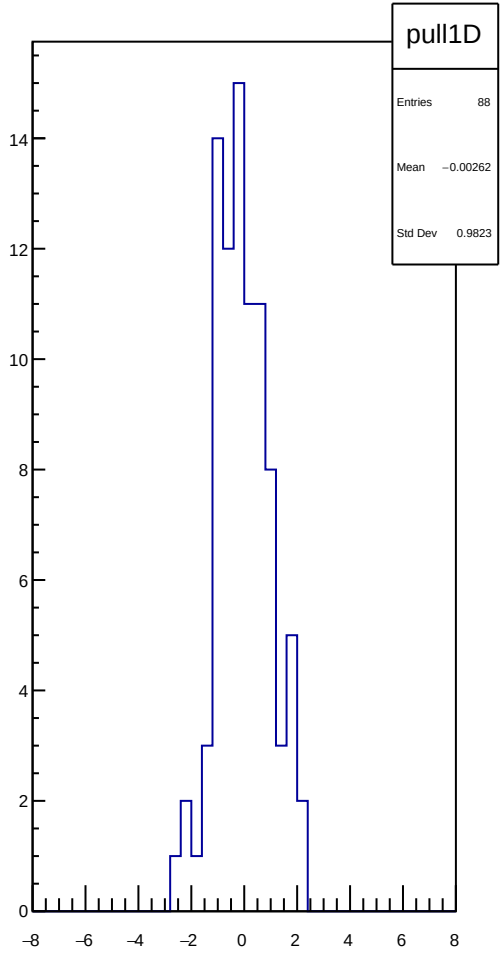

eigen_cor_asym_us_avg_rms vs run
χ^2 / ndf 91.5 / 87
p0 763.6 ± 0.5898
790
780
770
760
750
740

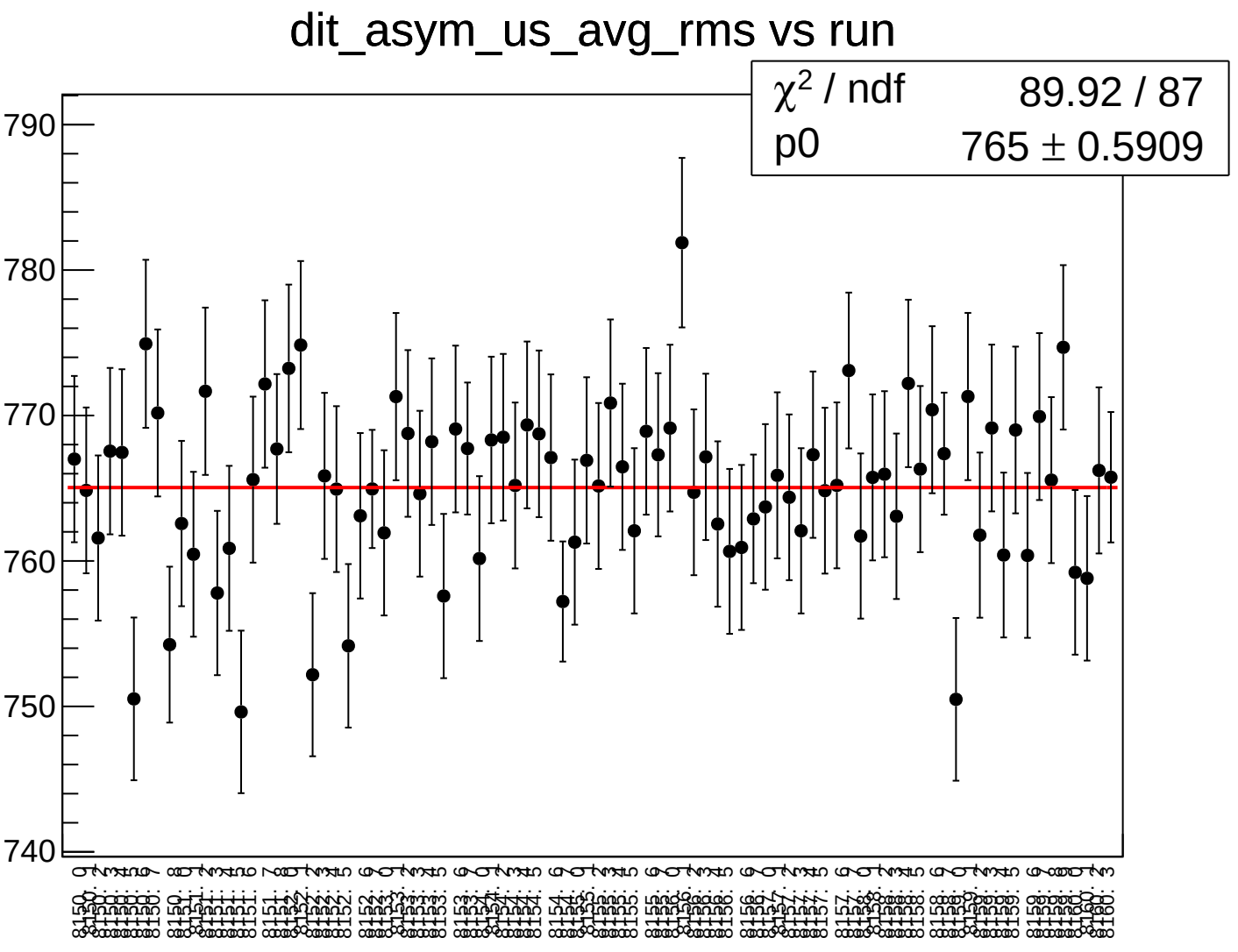

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 105.9 / 87
p0 −2563 ± 1631
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 9224
Std Dev 0
2
1
0
−1
−2

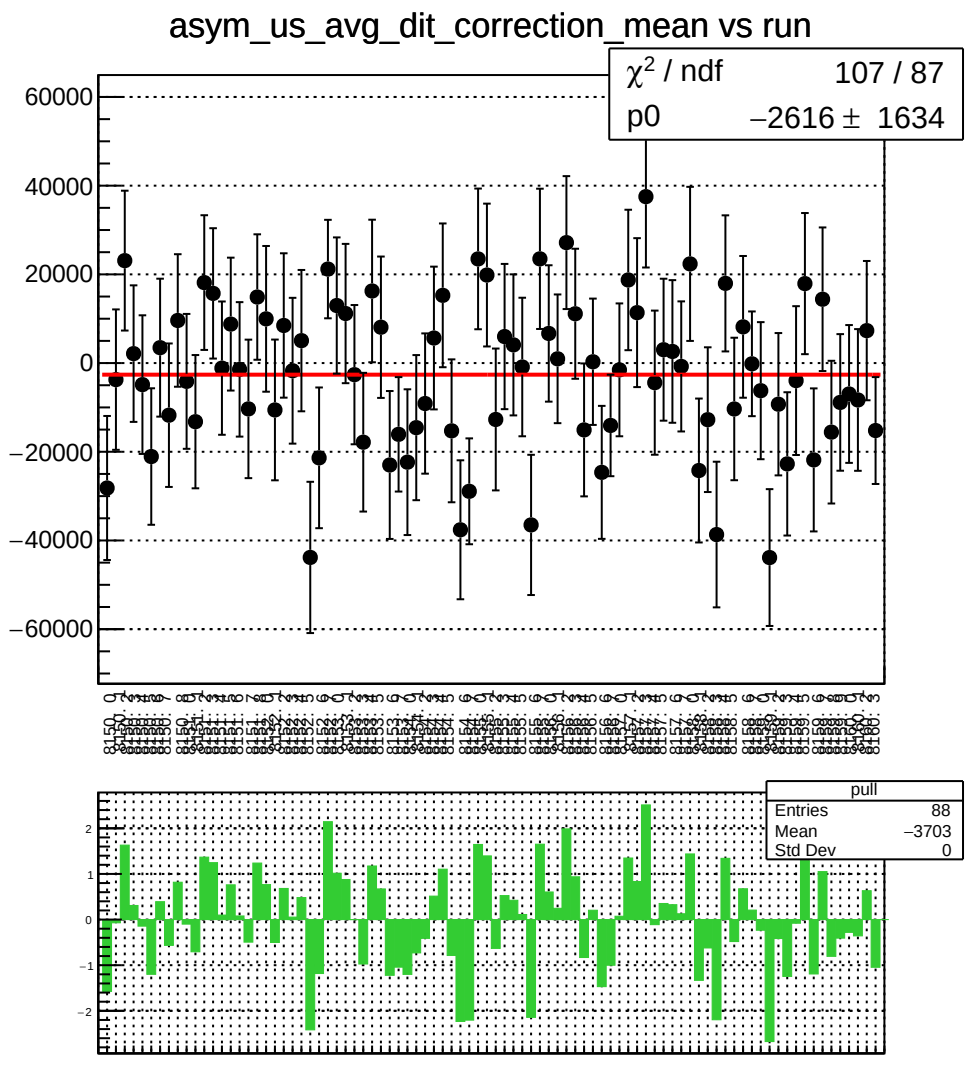

pull1D
Entries 88
Mean −0.0002562
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

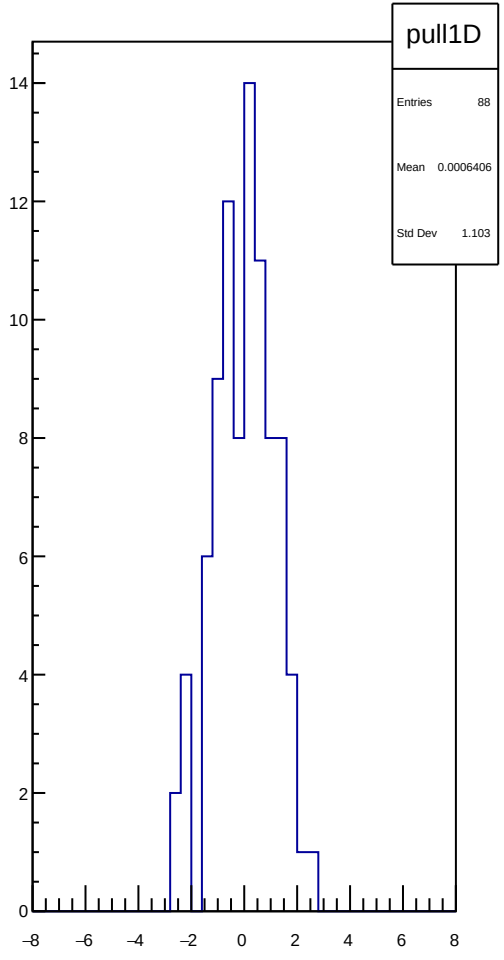

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 2897 / 87
p0 1492 ± 1.154
1650
1600
1550
1500
1450
1400
1350
1300

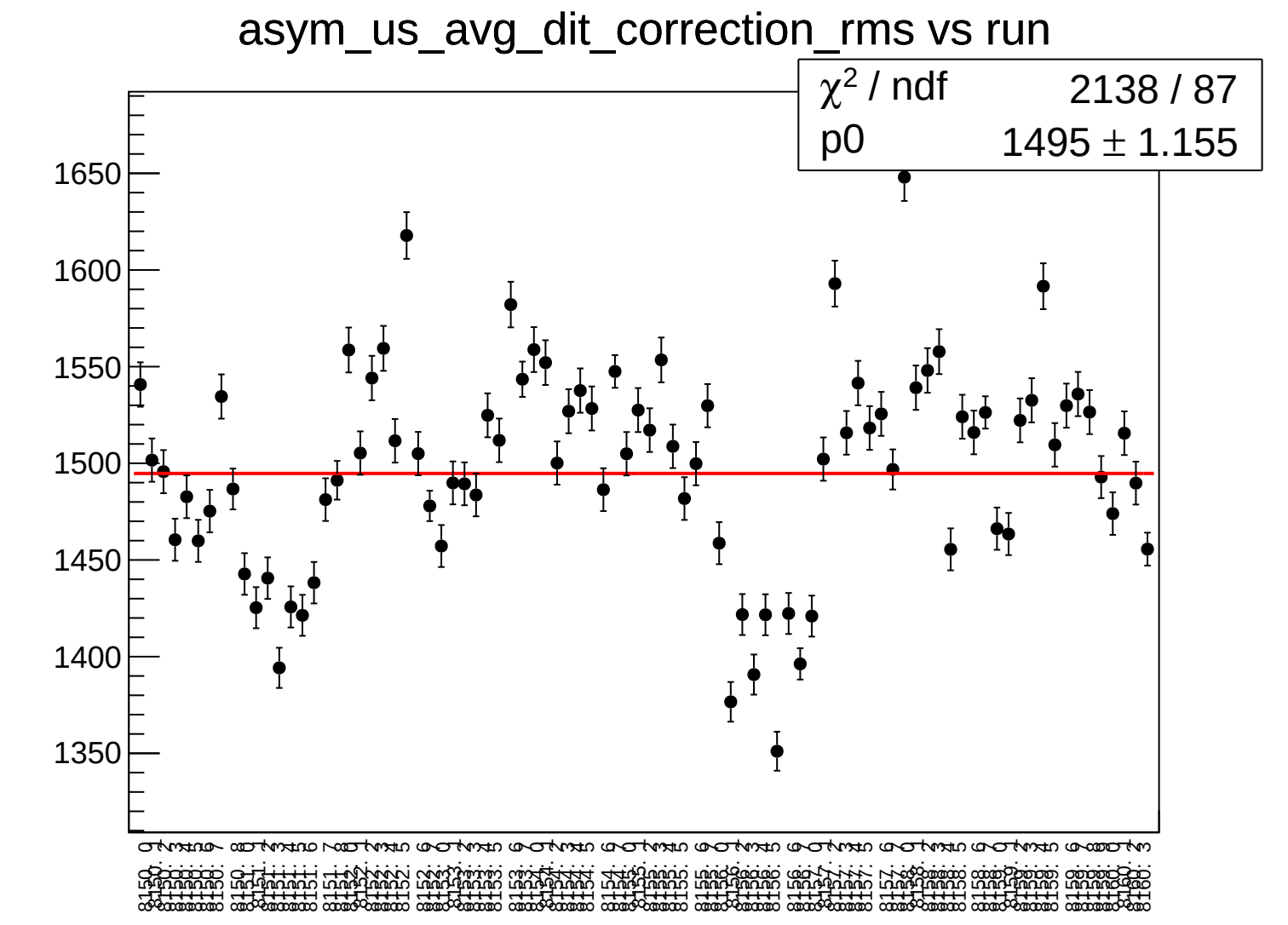

dit_asym_us_avg_mean vs run
χ² / ndf 84.91 / 87
p0 −1863 ± 835.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1203
Std Dev 0
2
1
0
−1
−2

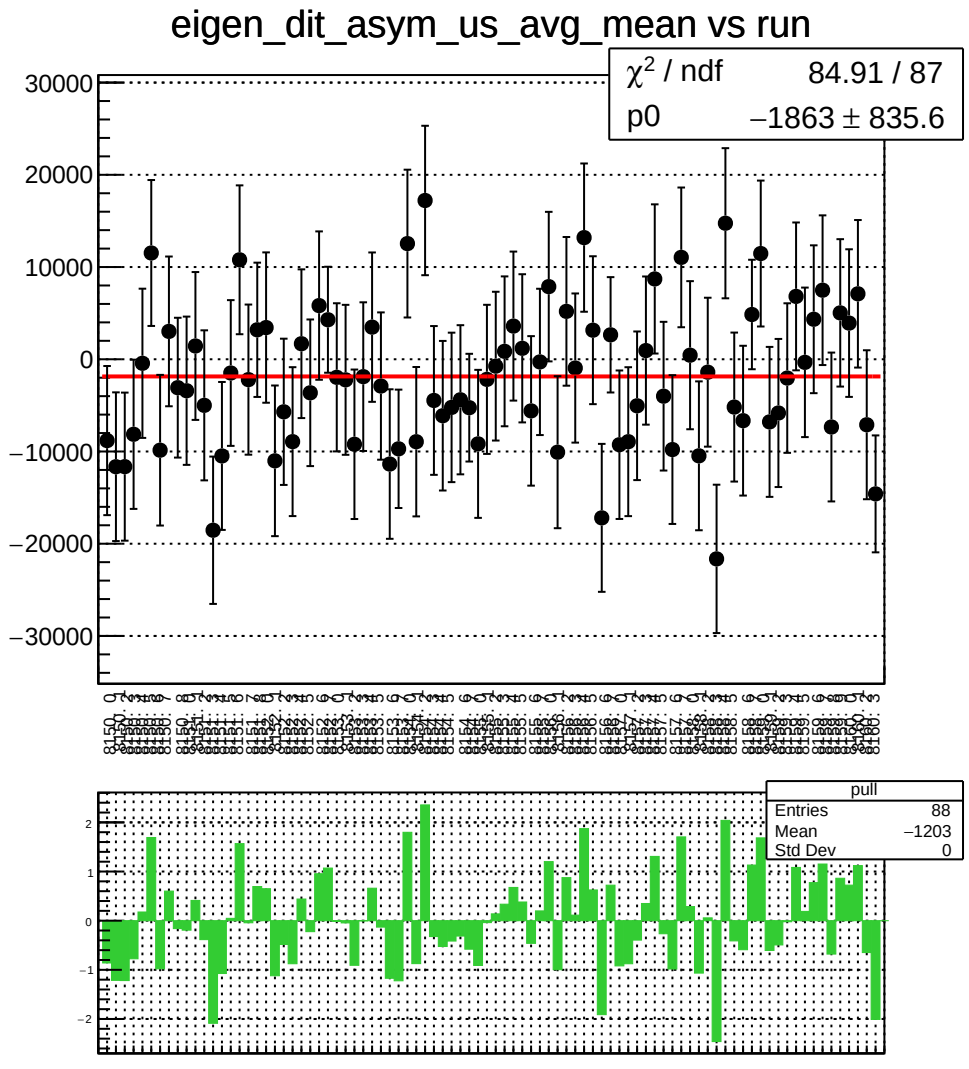

pull1D
Entries 88
Mean −0.00262
Std Dev 0.9823
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

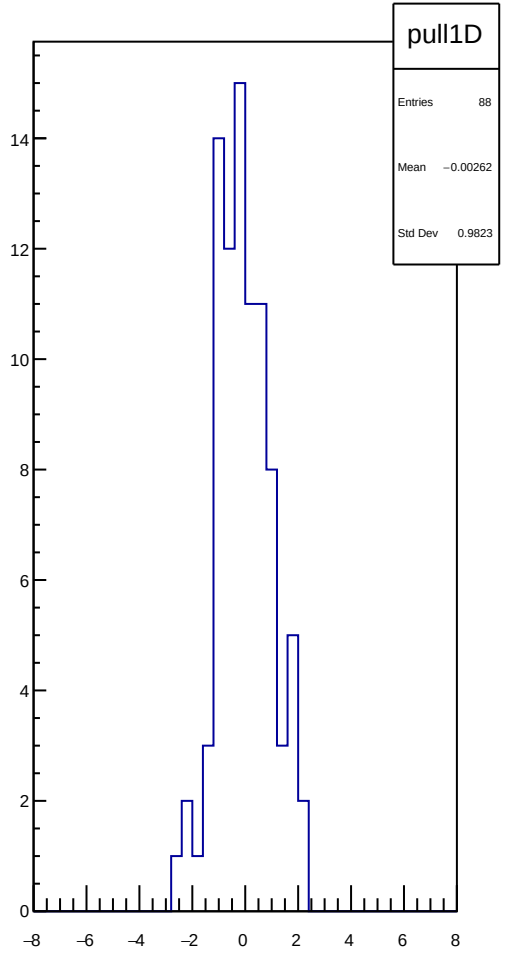

dit_asym_us_avg_rms vs run
χ² / ndf 89.92 / 87
p0 765 ± 0.5909
790
780
770
760
750
740

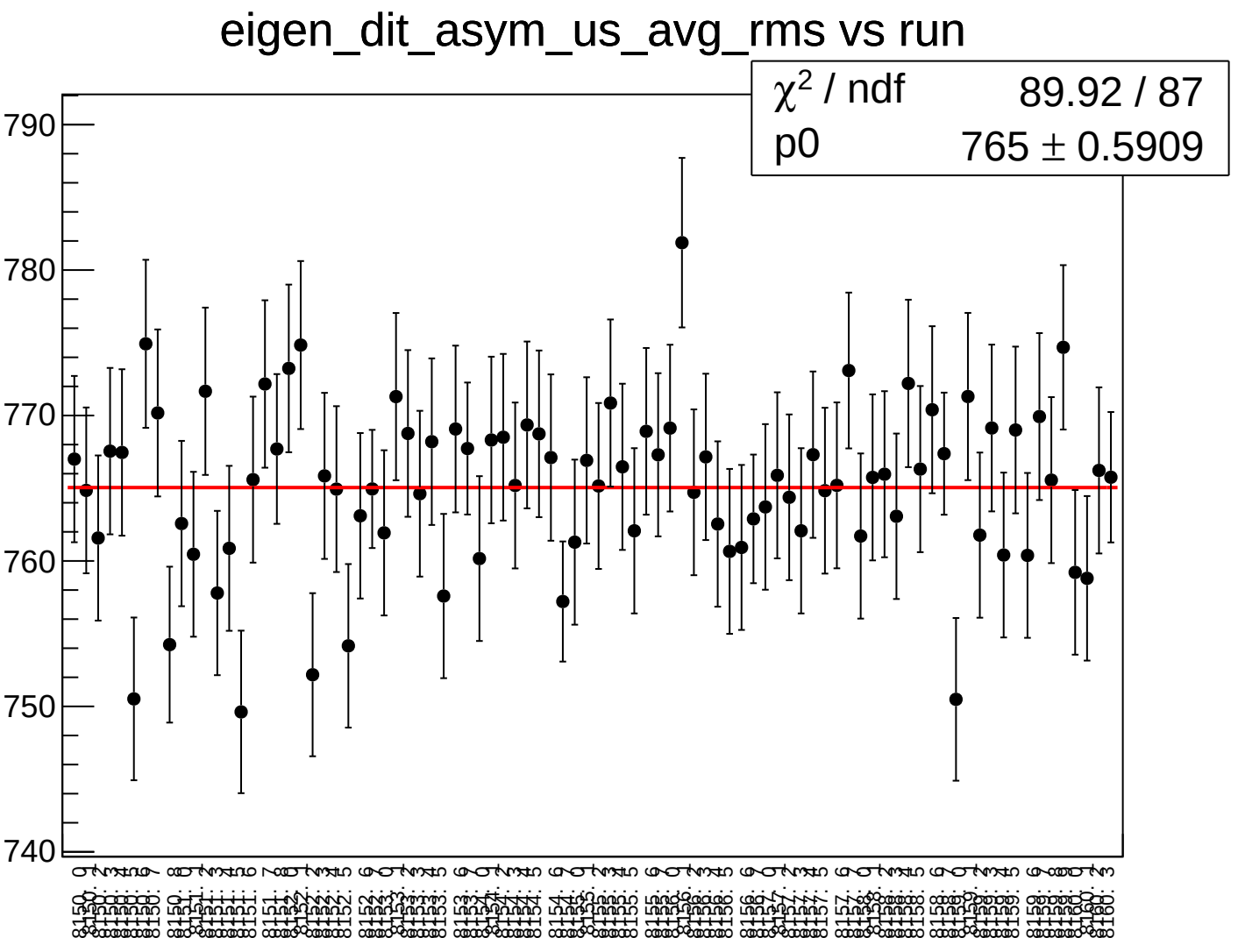

asym_us_avg_dit_correction_mean vs run
χ² / ndf 107 / 87
p0 −2616 ± 1634
pull
Entries 88
Mean −3703
Std Dev 0

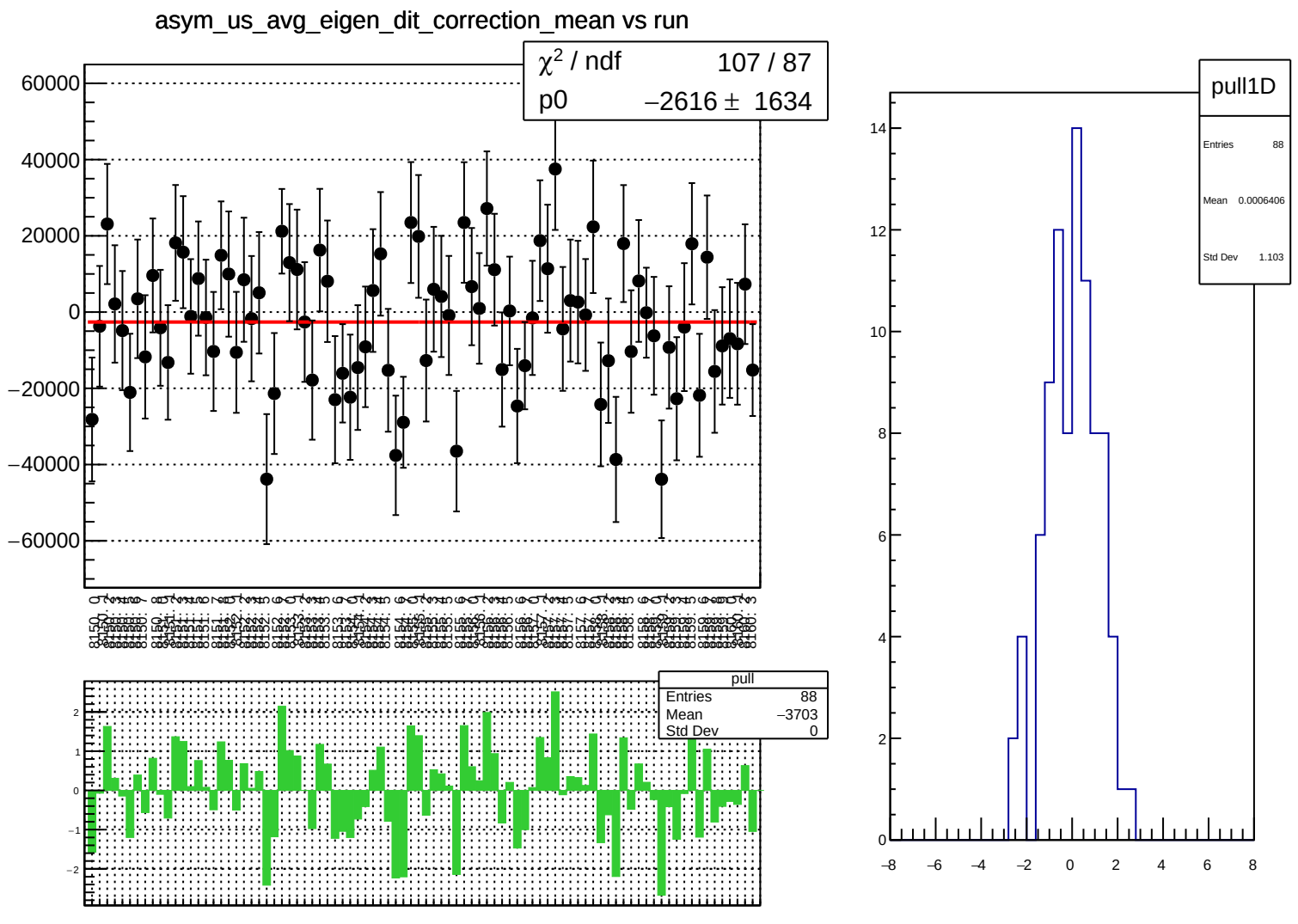

pull1D
Entries 88
Mean 0.0006406
Std Dev 1.103

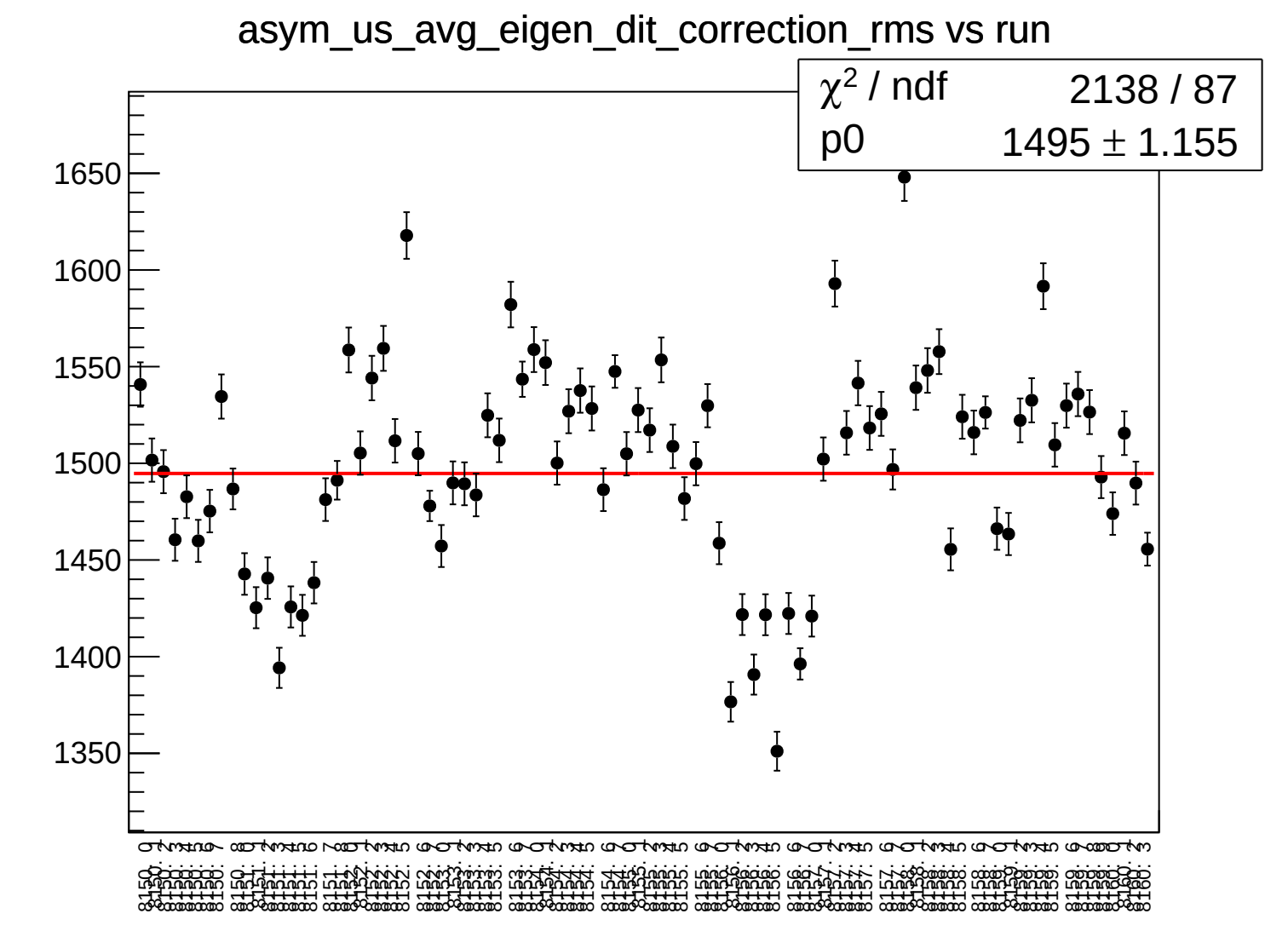

asym_us_avg_dit_correction_rms vs run
χ² / ndf 2138 / 87
p0 1495 ± 1.155
1650
1600
1550
1500
1450
1400
1350

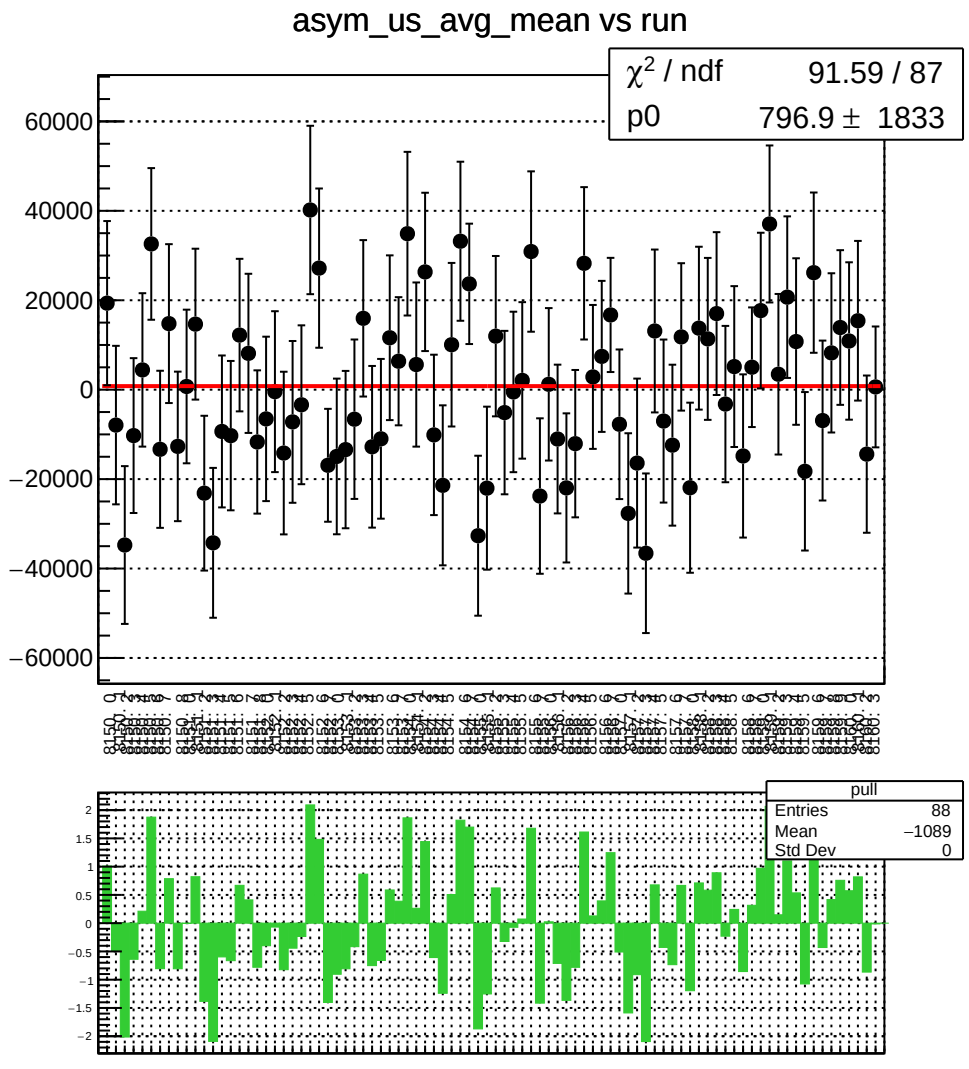

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 84.91 / 87
p0 −1863 ± 835.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1203
Std Dev 0
2
1
0
−1
−2

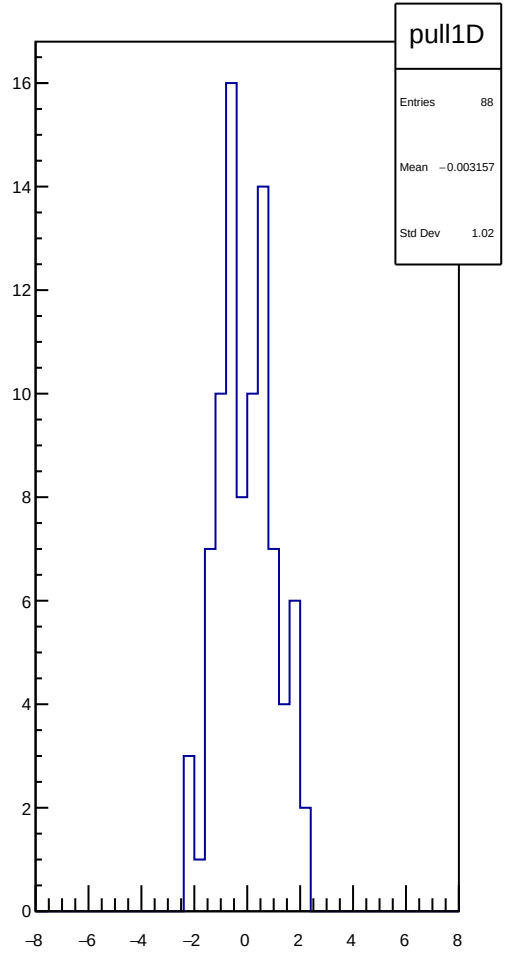

pull1D
Entries 88
Mean −0.00262
Std Dev 0.9823
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

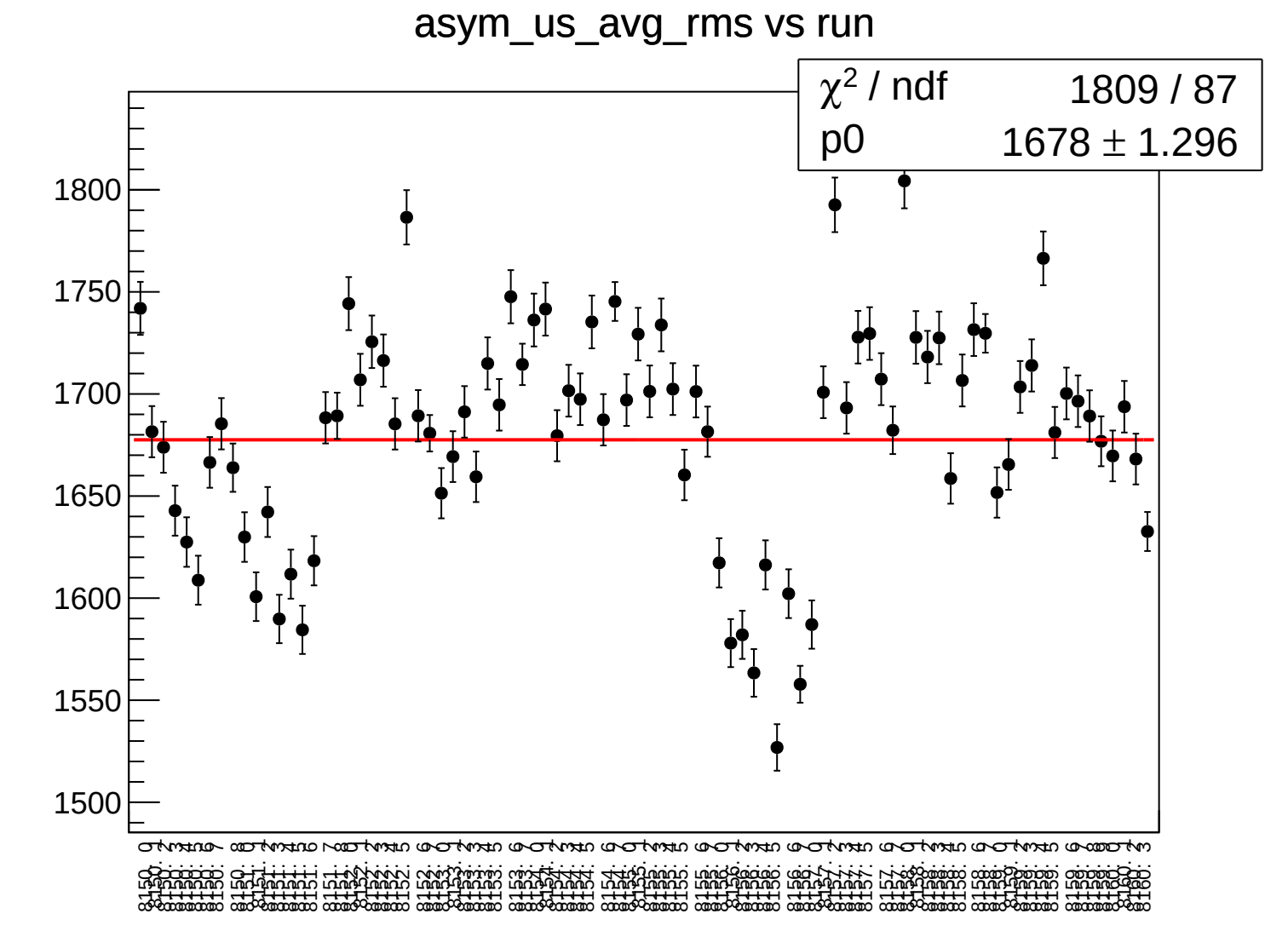

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 89.92 / 87
p0 765 ± 0.5909
790
780
770
760
750
740

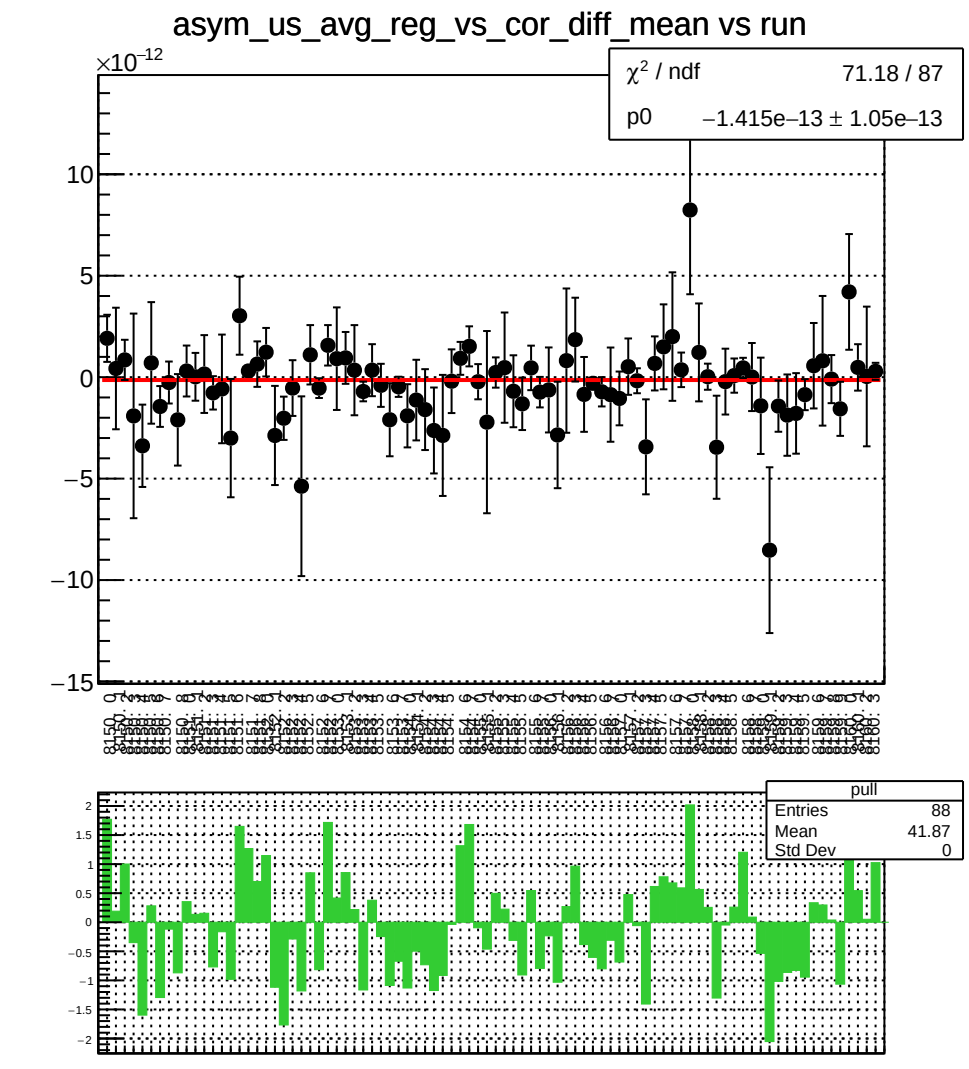

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 107 / 87
p0 −2616 ± 1634
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −3703
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0006406
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

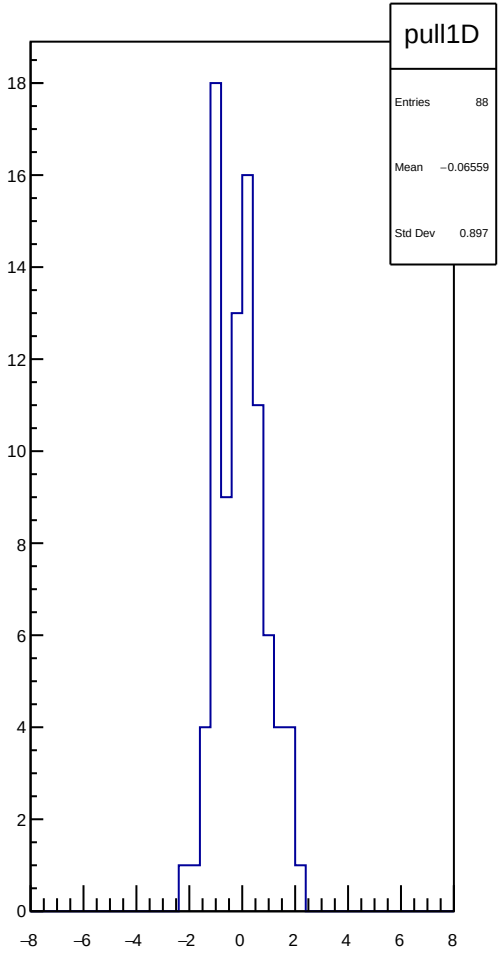

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 2138 / 87
p0 1495 ± 1.155
1650
1600
1550
1500
1450
1400
1350

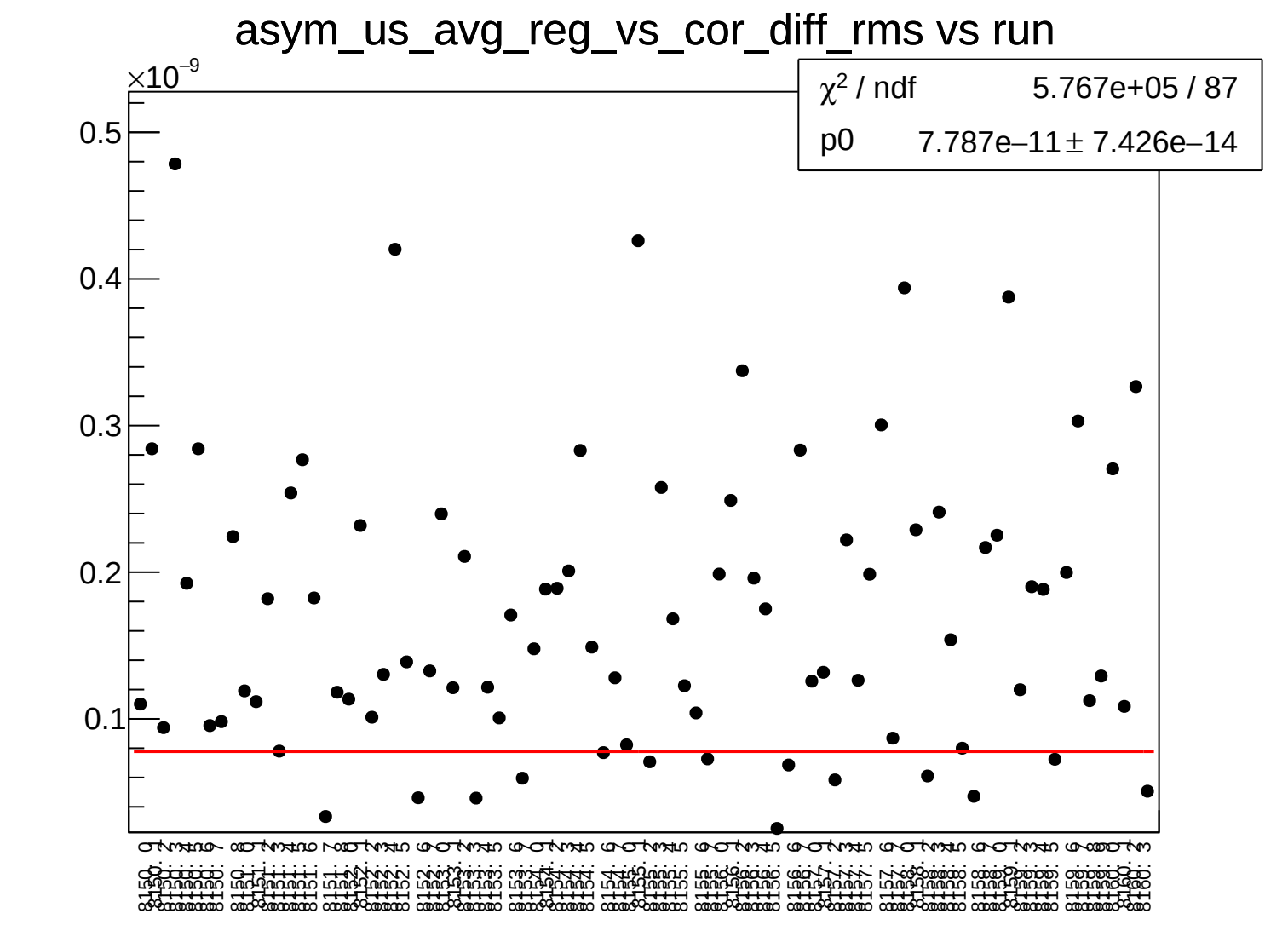

asym_us_avg_mean vs run
χ² / ndf 91.59 / 87
p0 796.9 ± 1833
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1089
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

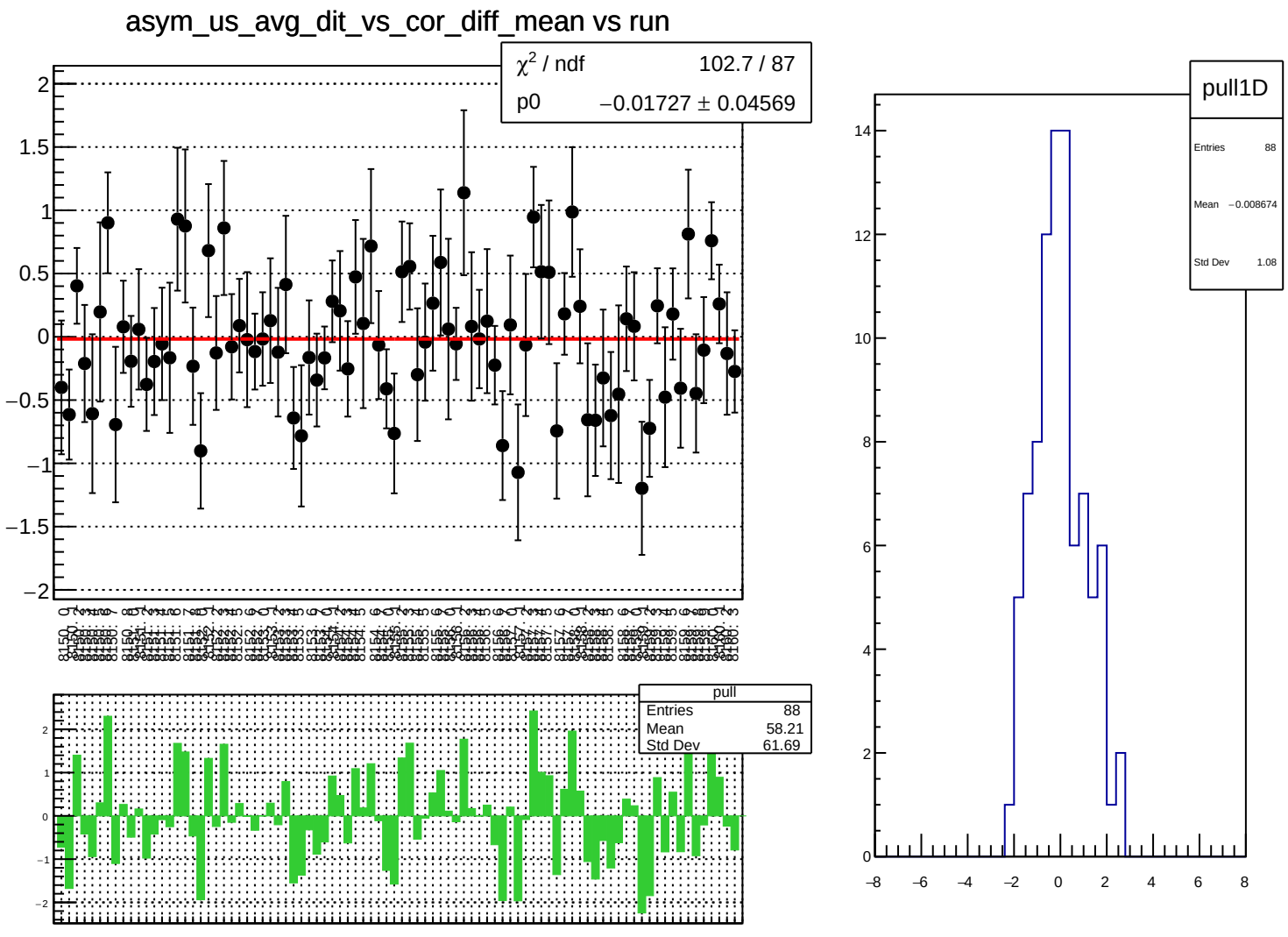

pull1D
Entries 88
Mean −0.003157
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

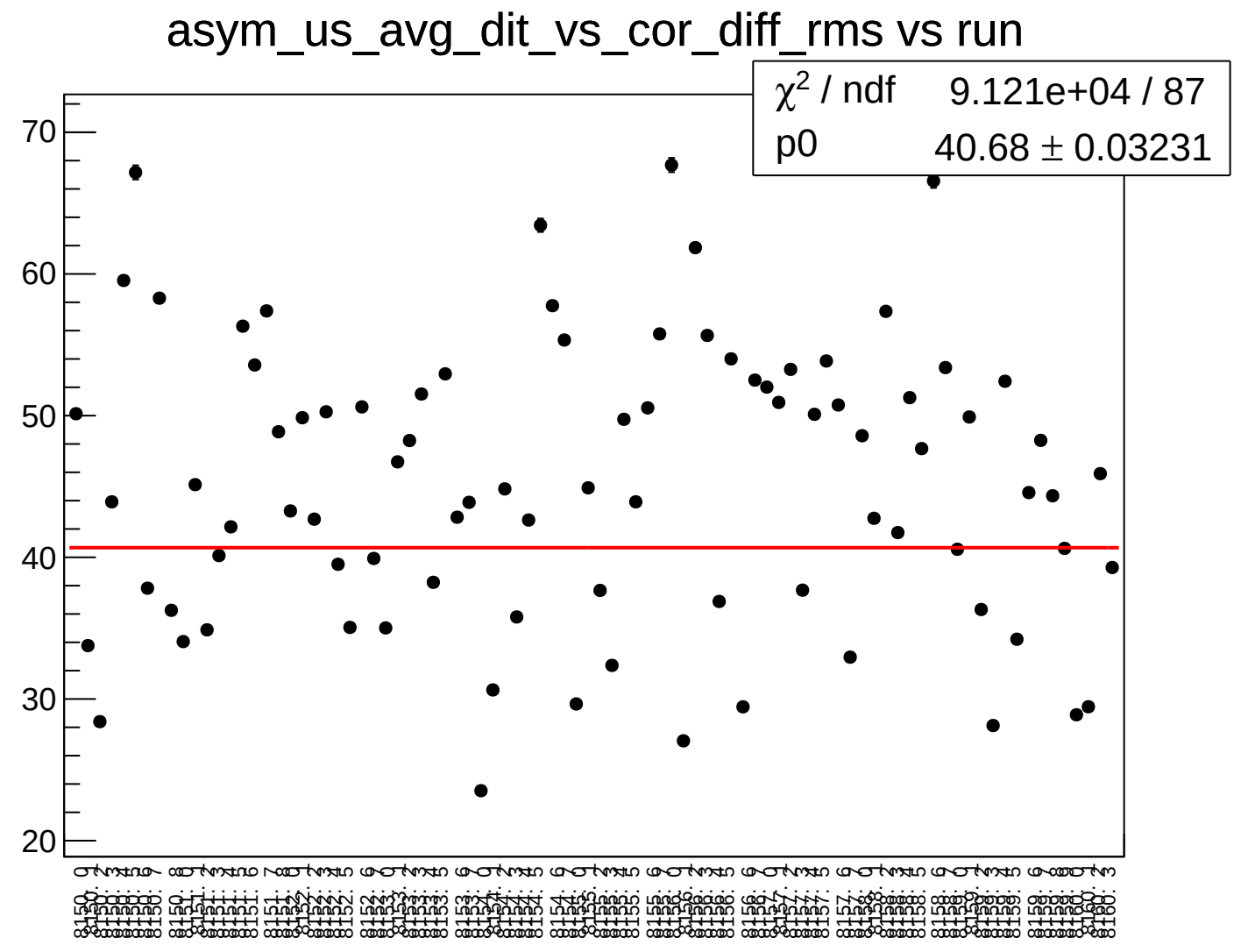

asym_us_avg_rms vs run
χ^2 / ndf 1809 / 87
p0 1678 ± 1.296
1800
1750
1700
1650
1600
1550
1500

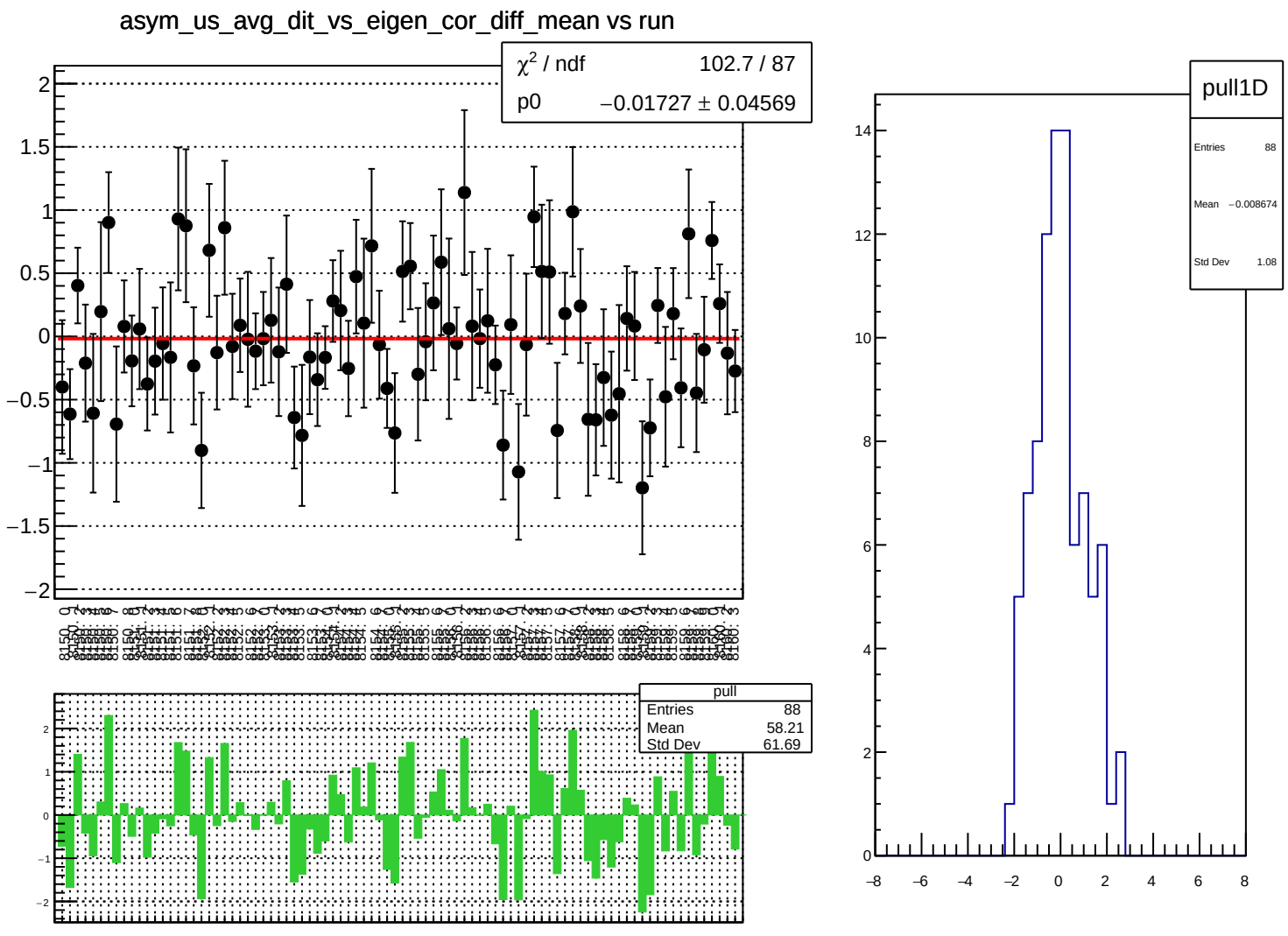

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.18 / 87
p0 −1.415e−13 ± 1.05e−13
pull
Entries 88
Mean 41.87
Std Dev 0

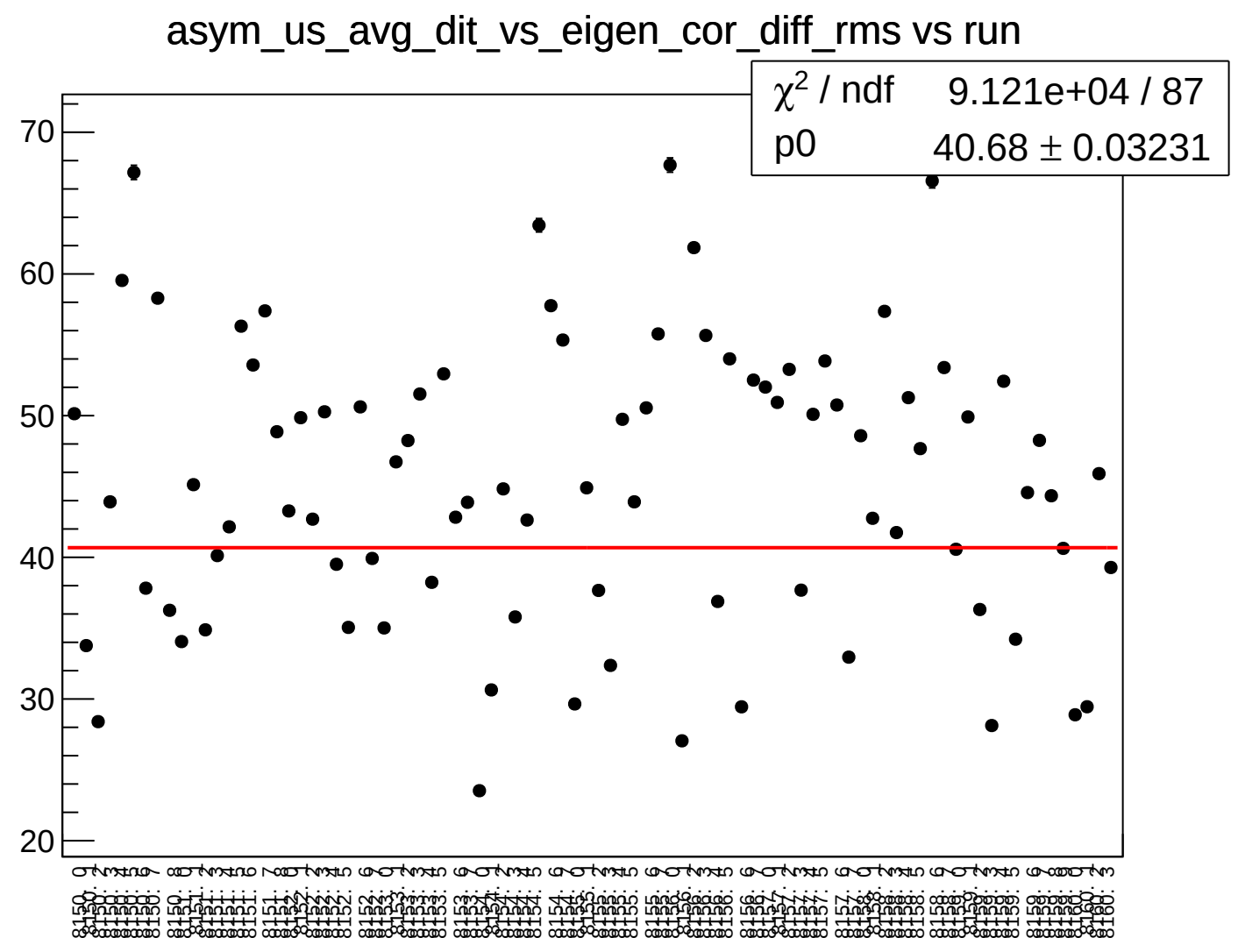

pull1D
Entries 88
Mean −0.06559
Std Dev 0.897

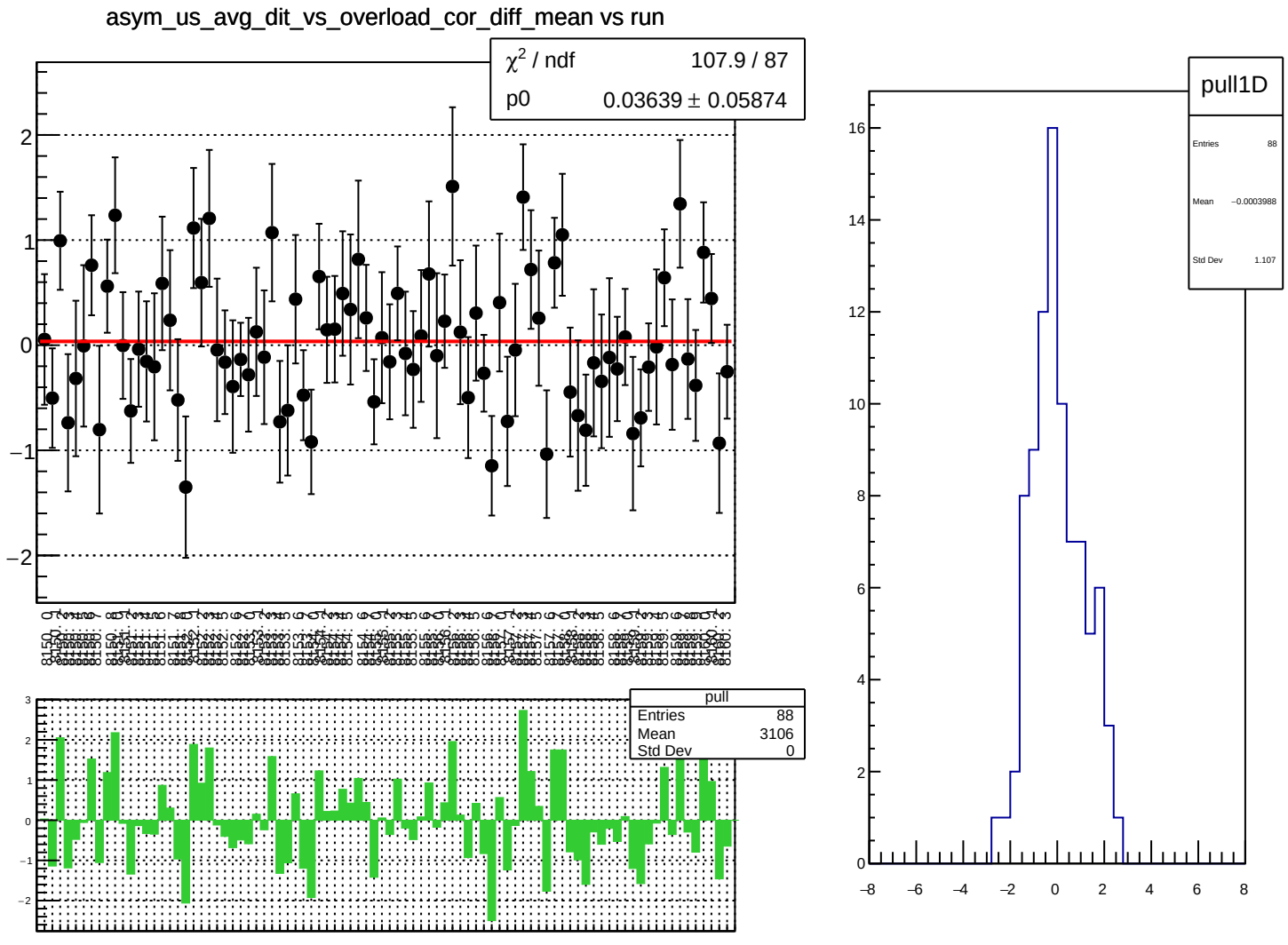

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.767e+05 / 87
p0 7.787e−11 ± 7.426e−14
0.5
0.4
0.3
0.2
0.1

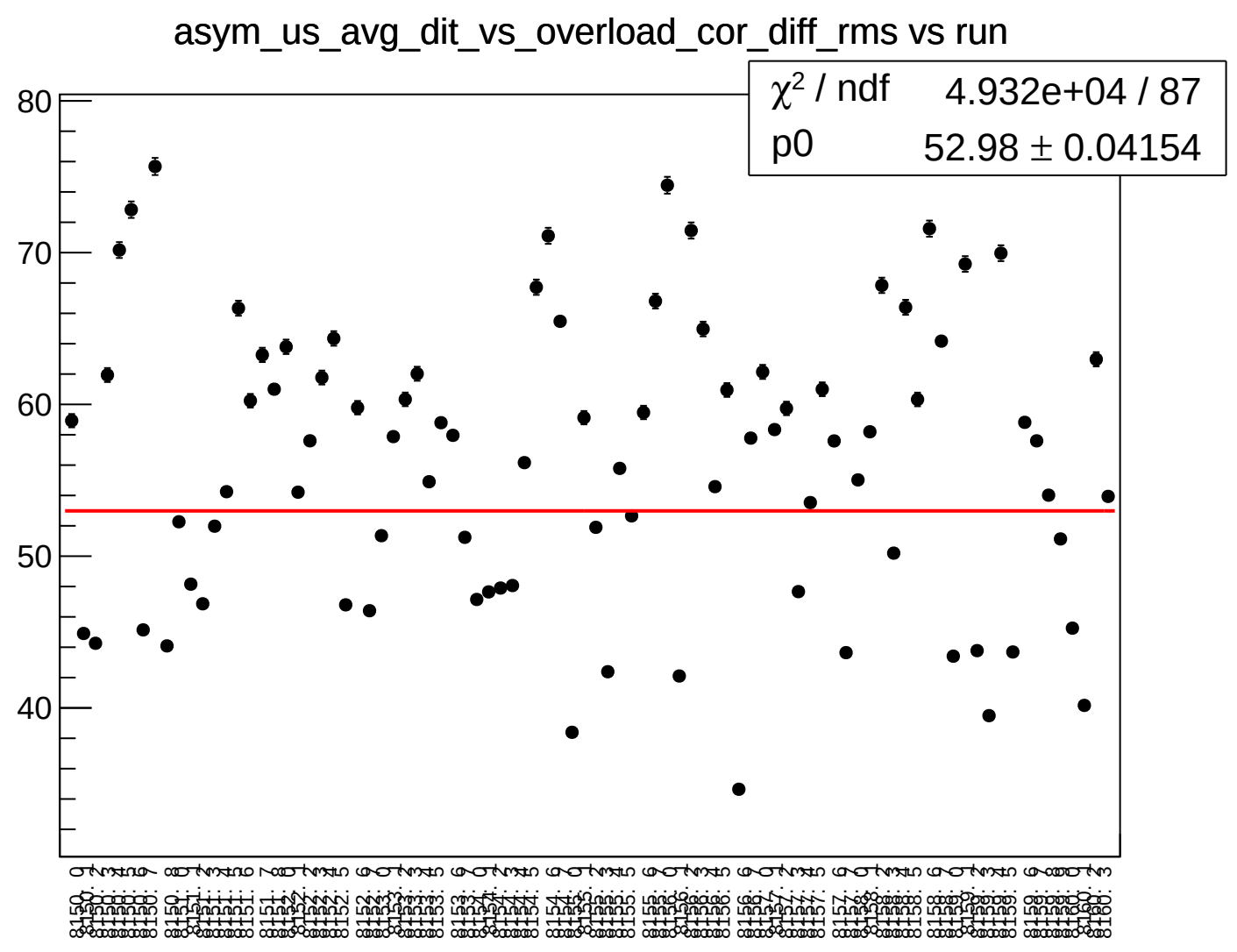

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 87
p0 −0.01727 ± 0.04569
pull
Entries 88
Mean 58.21
Std Dev 61.69
pull1D
Entries 88
Mean −0.008674
Std Dev 1.08

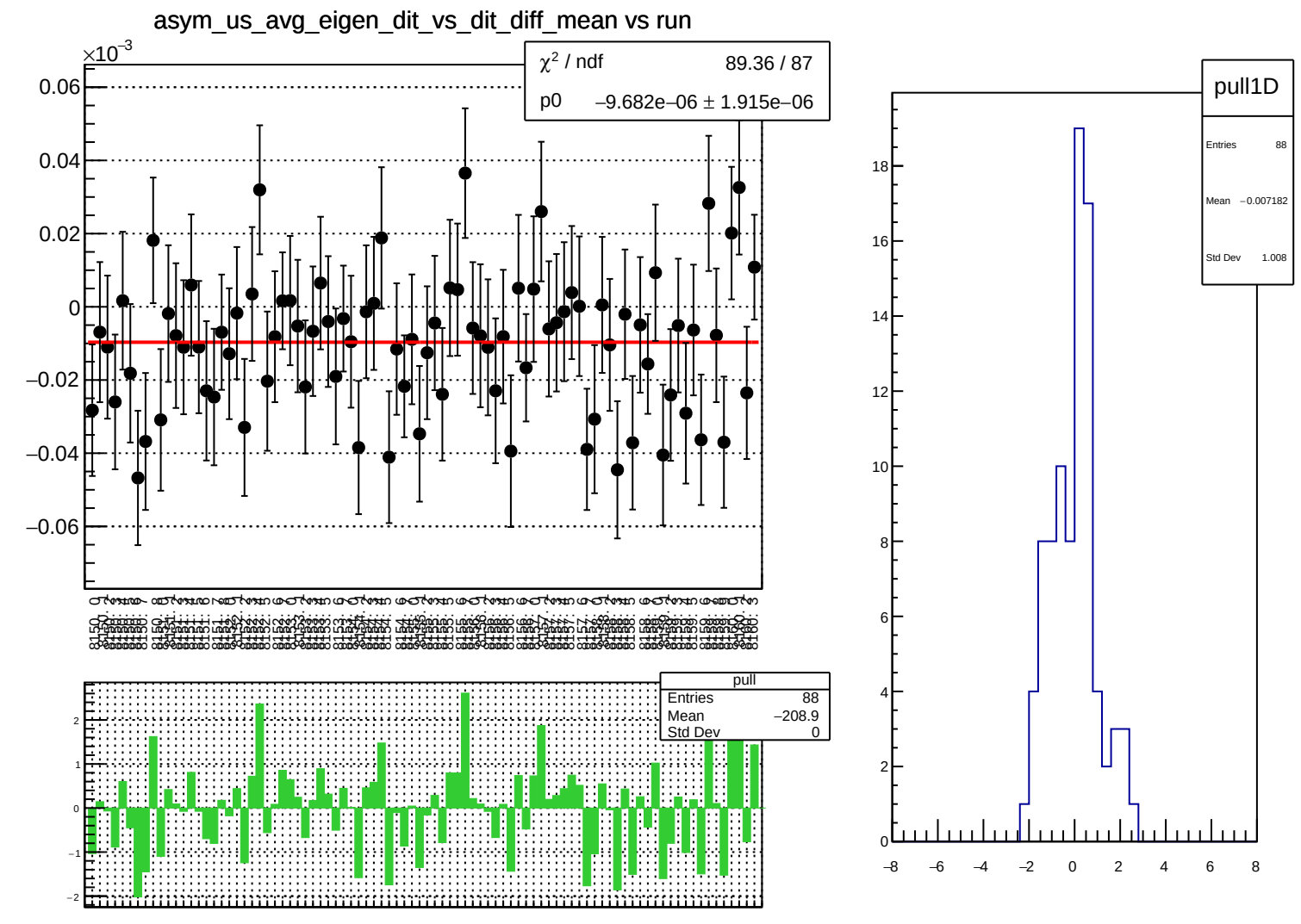

asym_us_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.121e+04 / 87
p0 40.68 ± 0.03231
70
60
50
40
30
20

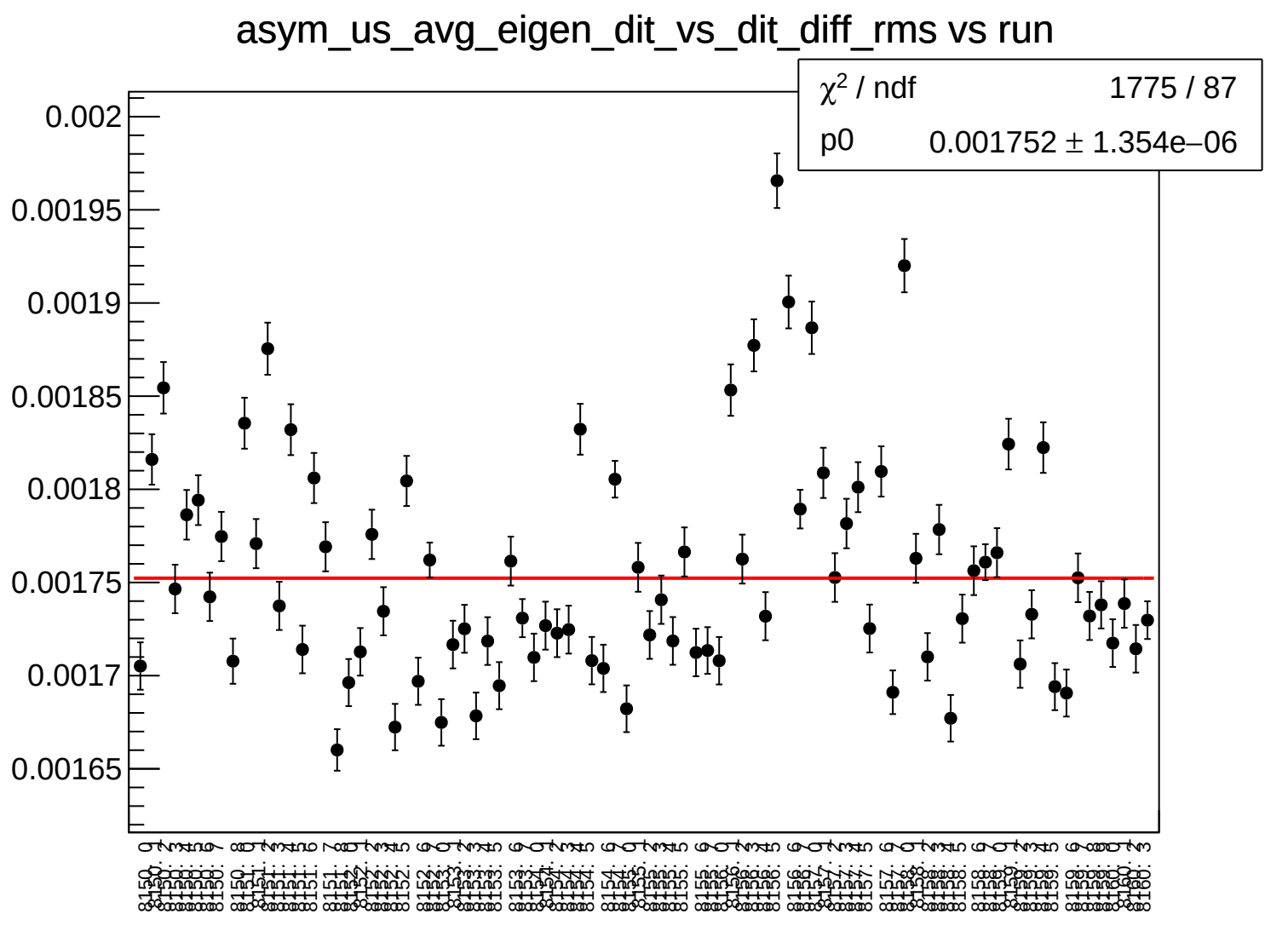

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.7 / 87
p0 −0.01727 ± 0.04569
pull
Entries 88
Mean 58.21
Std Dev 61.69
pull1D
Entries 88
Mean −0.008674
Std Dev 1.08

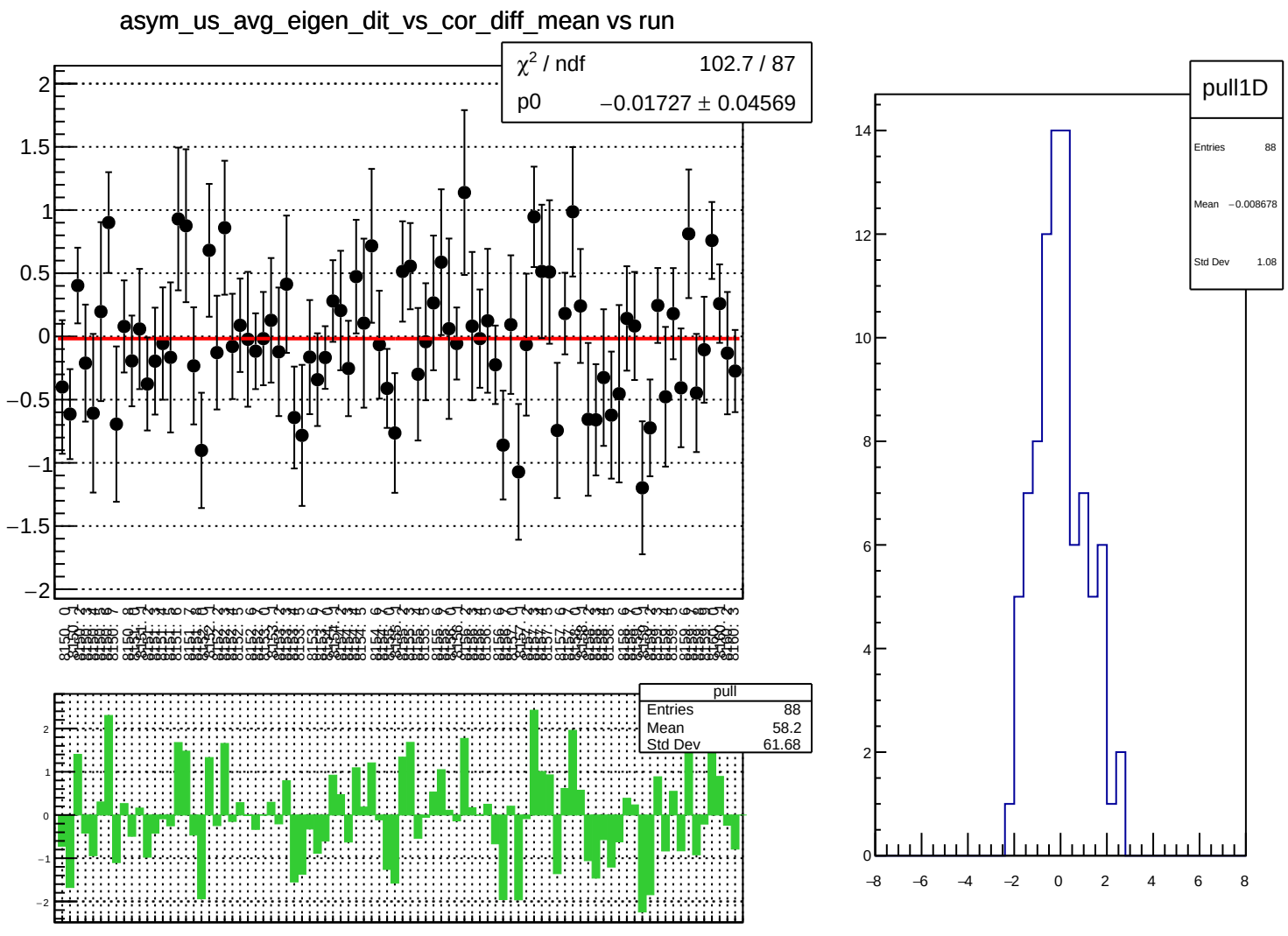

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.121e+04 / 87
p0 40.68 ± 0.03231
70
60
50
40
30
20

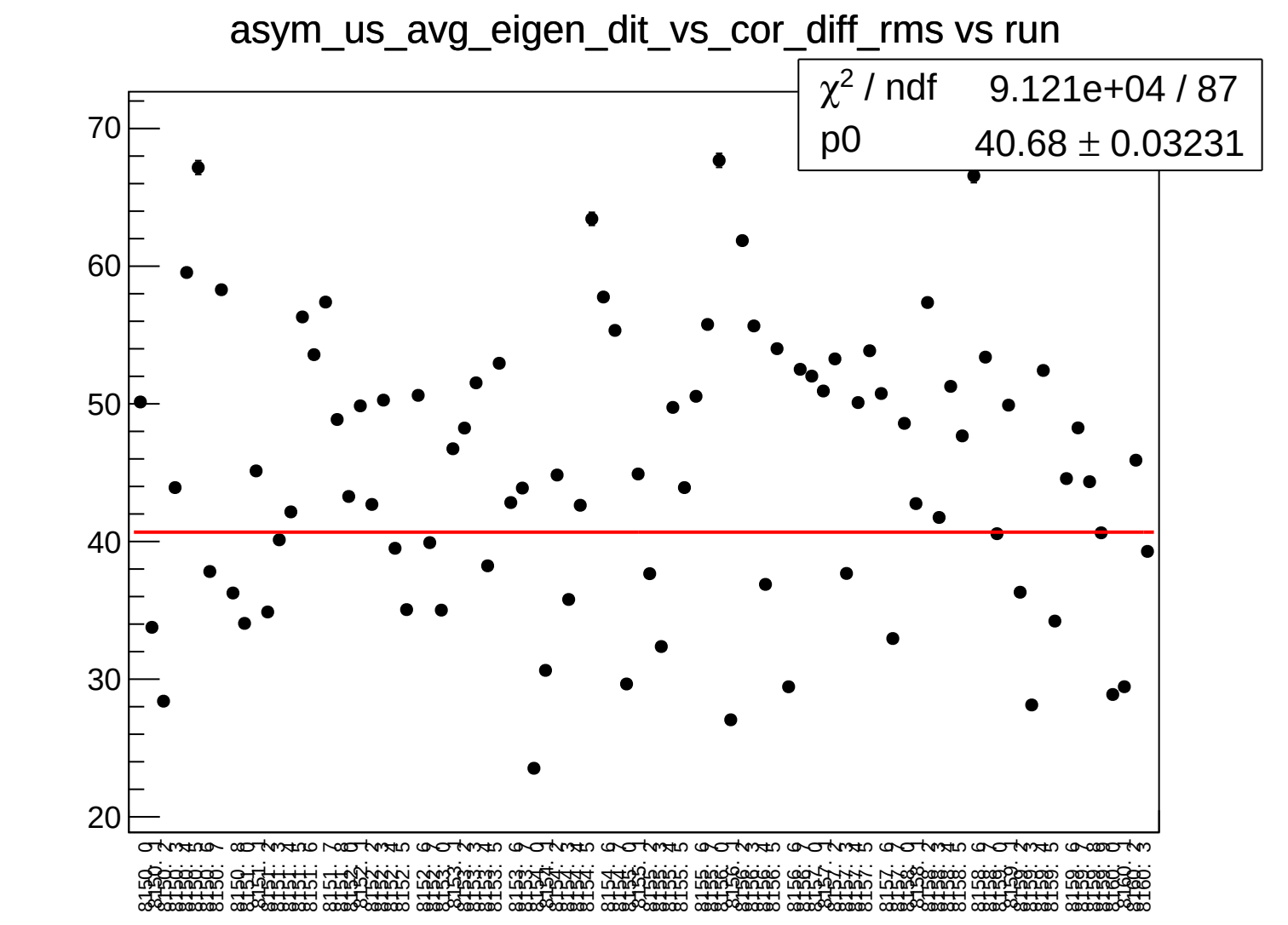

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 107.9 / 87
p0 0.03639 ± 0.05874
pull
Entries 88
Mean 3106
Std Dev 0
pull1D
Entries 88
Mean −0.0003988
Std Dev 1.107

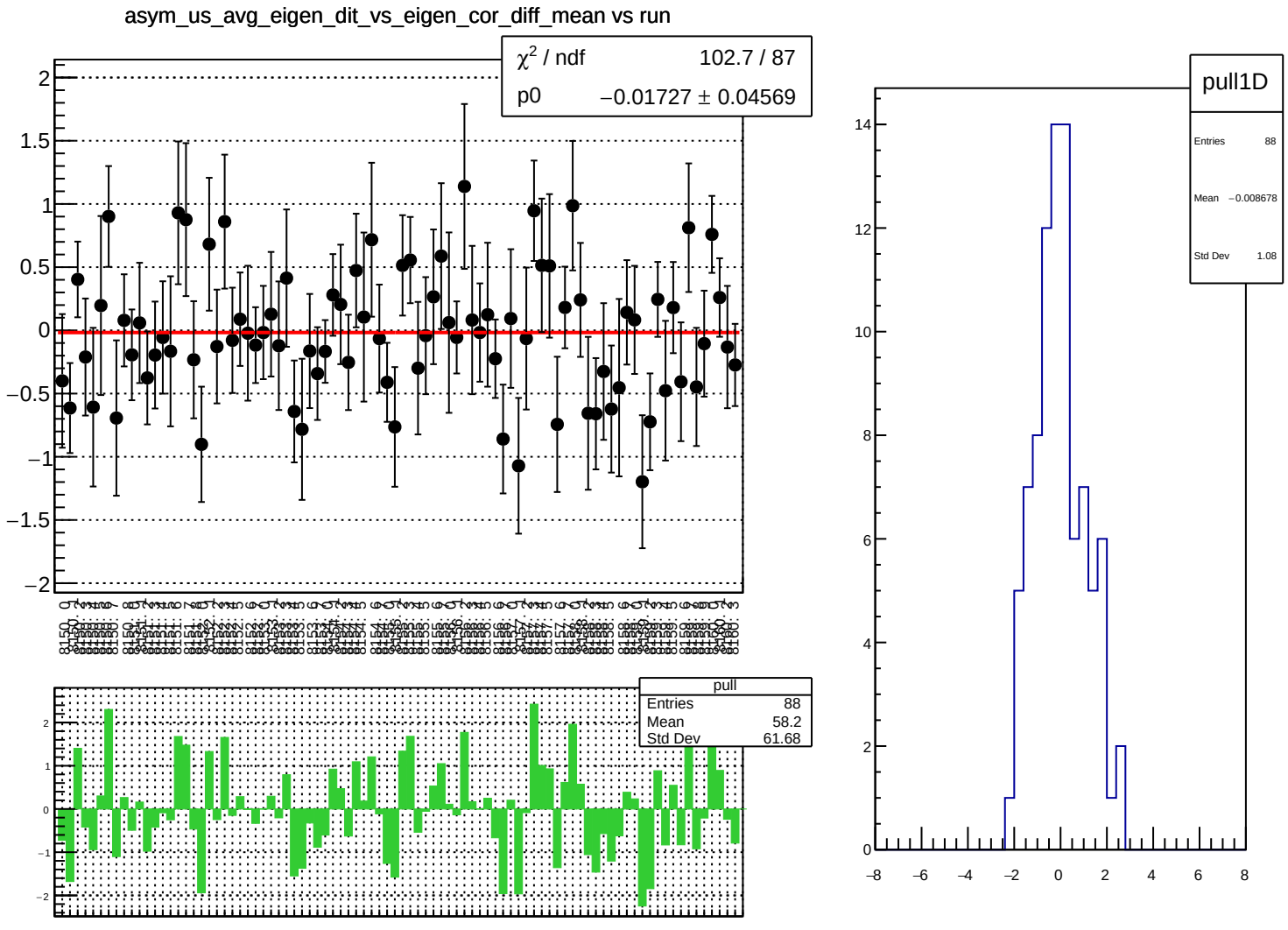

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.932e+04 / 87
p0 52.98 ± 0.04154
80
70
60
50
40

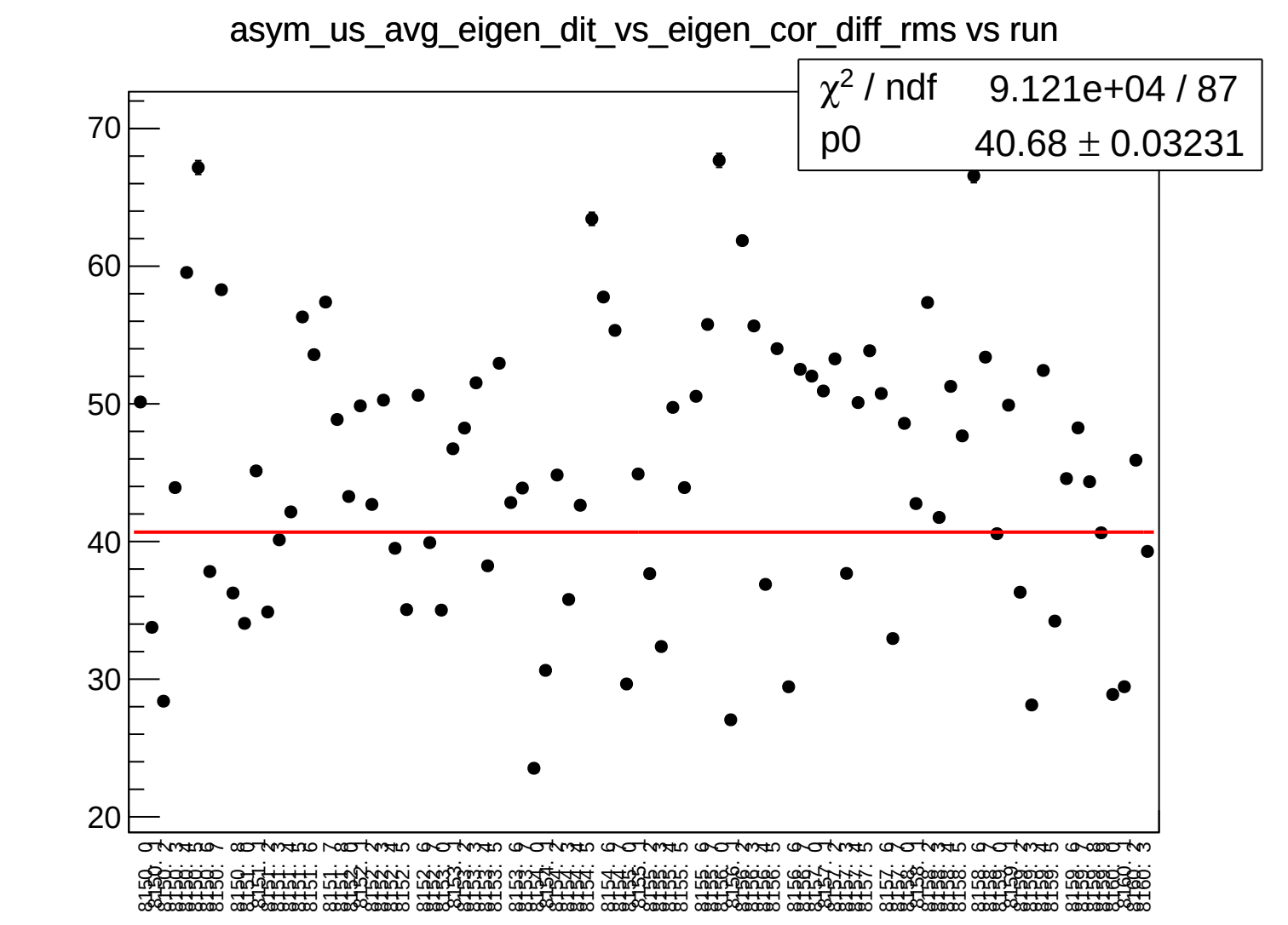

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.36 / 87
p0 −9.682e−06 ± 1.915e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean −208.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007182
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

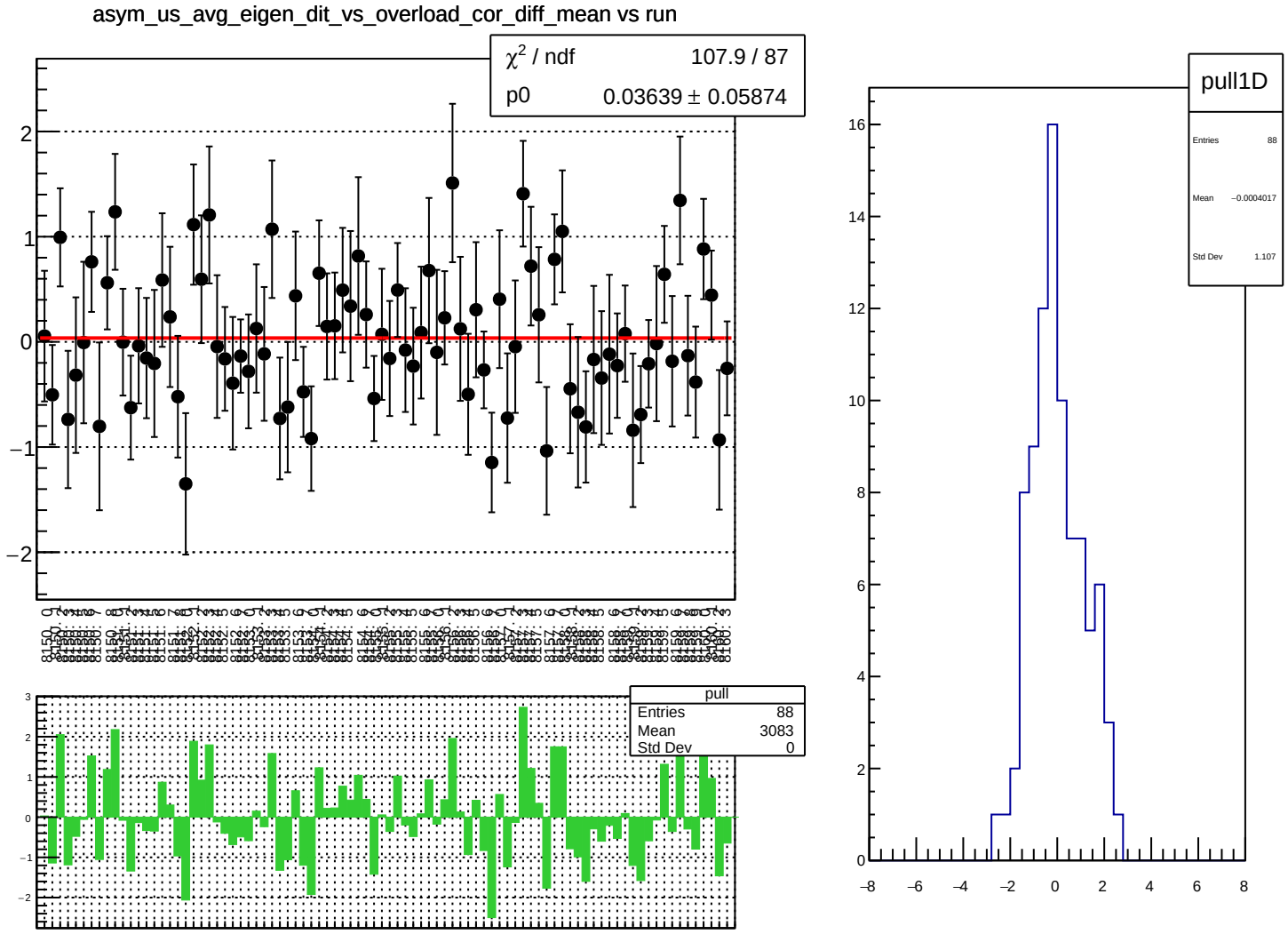

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1775 / 87
p0 0.001752 ± 1.354e−06
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165

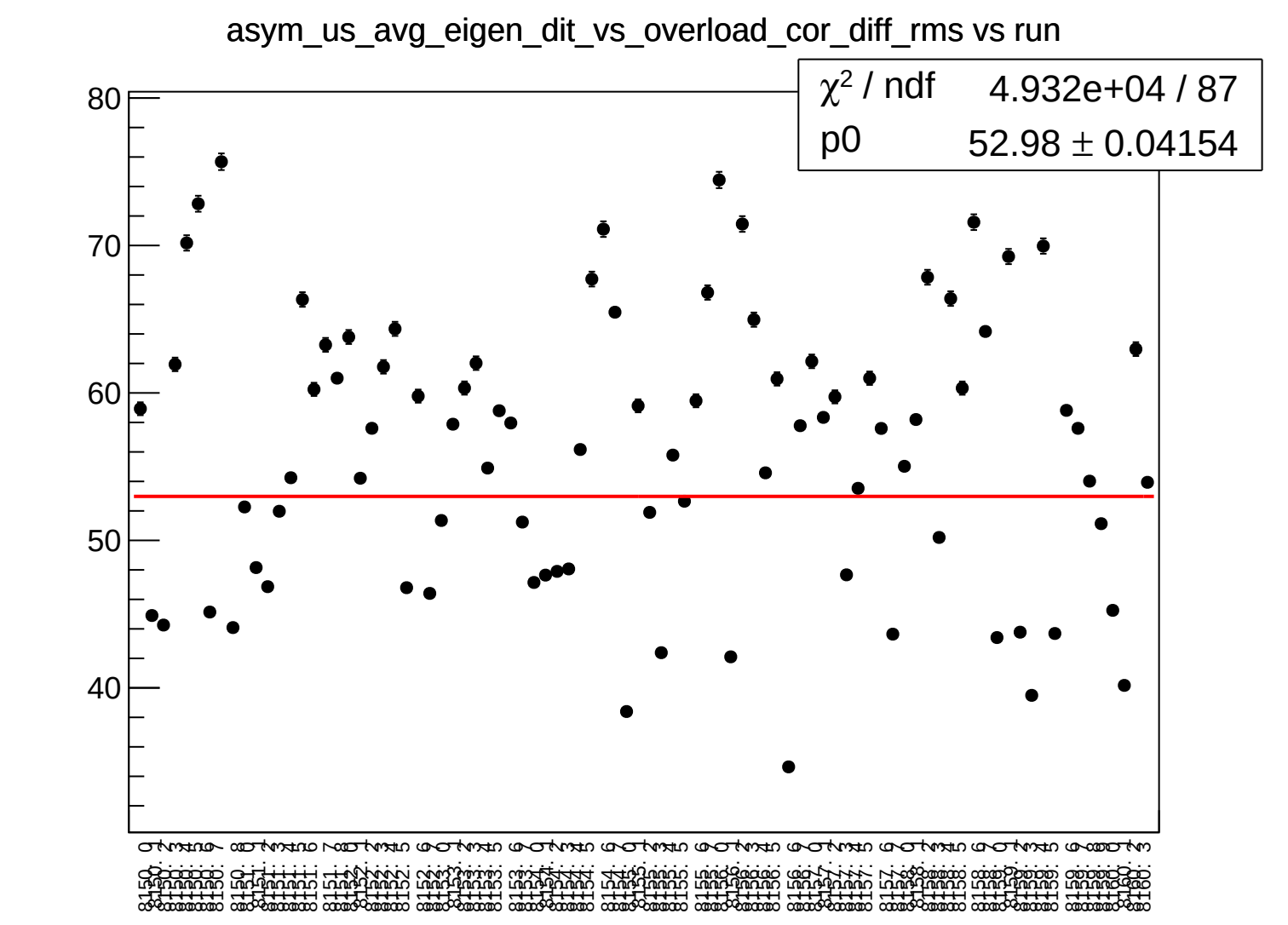

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 87
p0 −0.01727 ± 0.04569
pull
Entries 88
Mean 58.2
Std Dev 61.68
pull1D
Entries 88
Mean −0.008678
Std Dev 1.08

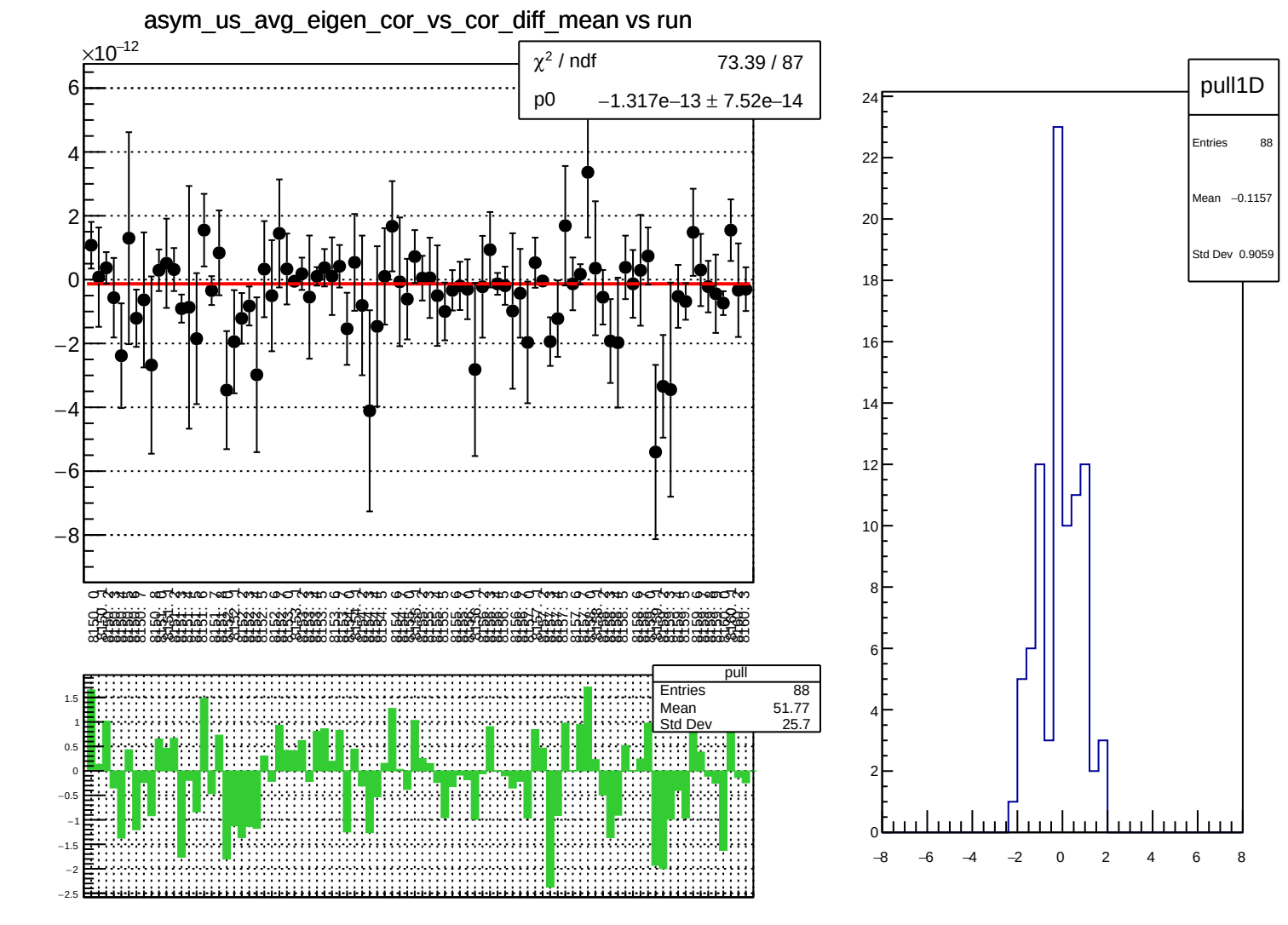

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.121e+04 / 87
p0 40.68 ± 0.03231
70
60
50
40
30
20

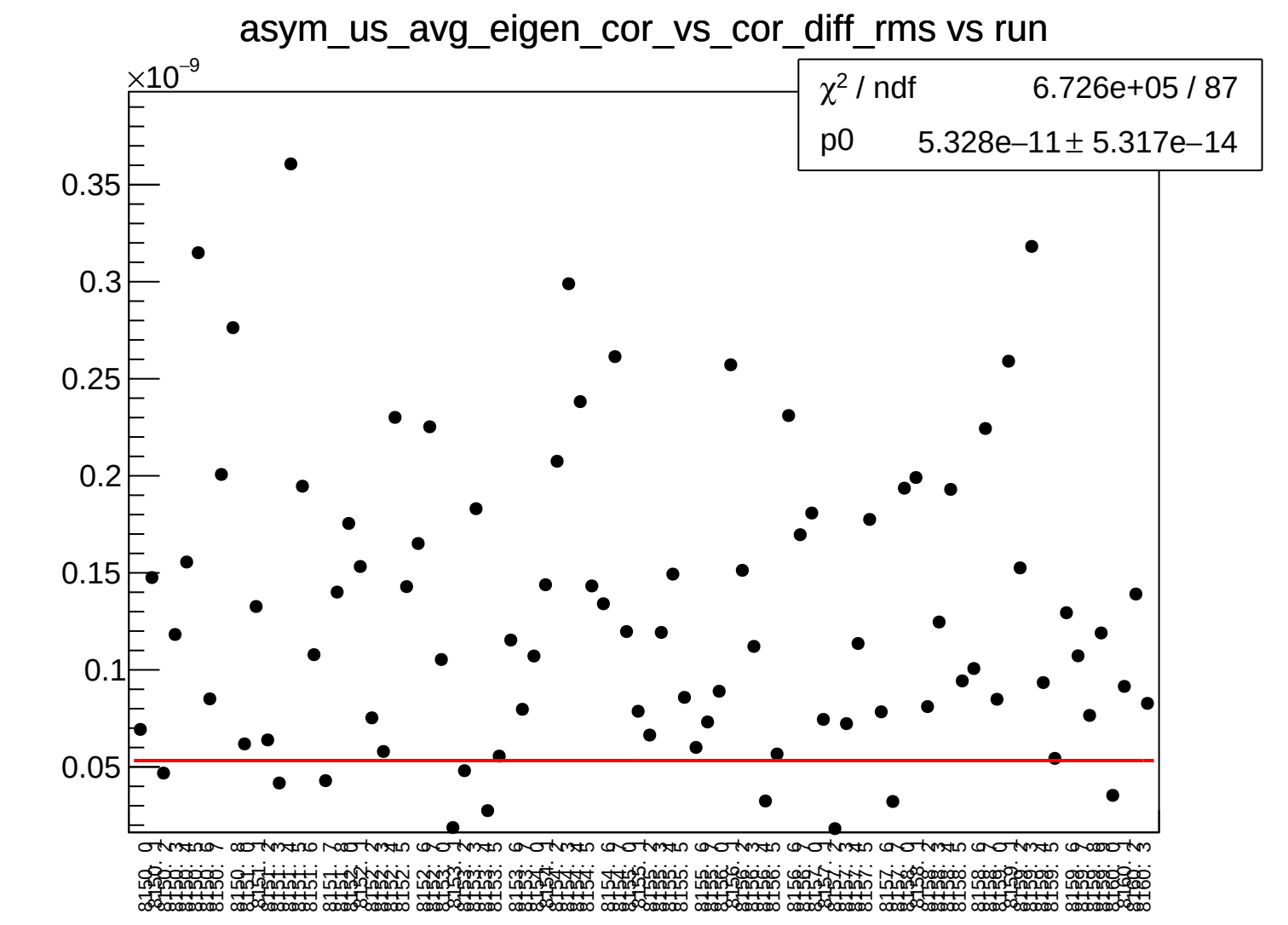

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.7 / 87
p0 −0.01727 ± 0.04569
pull
Entries 88
Mean 58.2
Std Dev 61.68
pull1D
Entries 88
Mean −0.008678
Std Dev 1.08

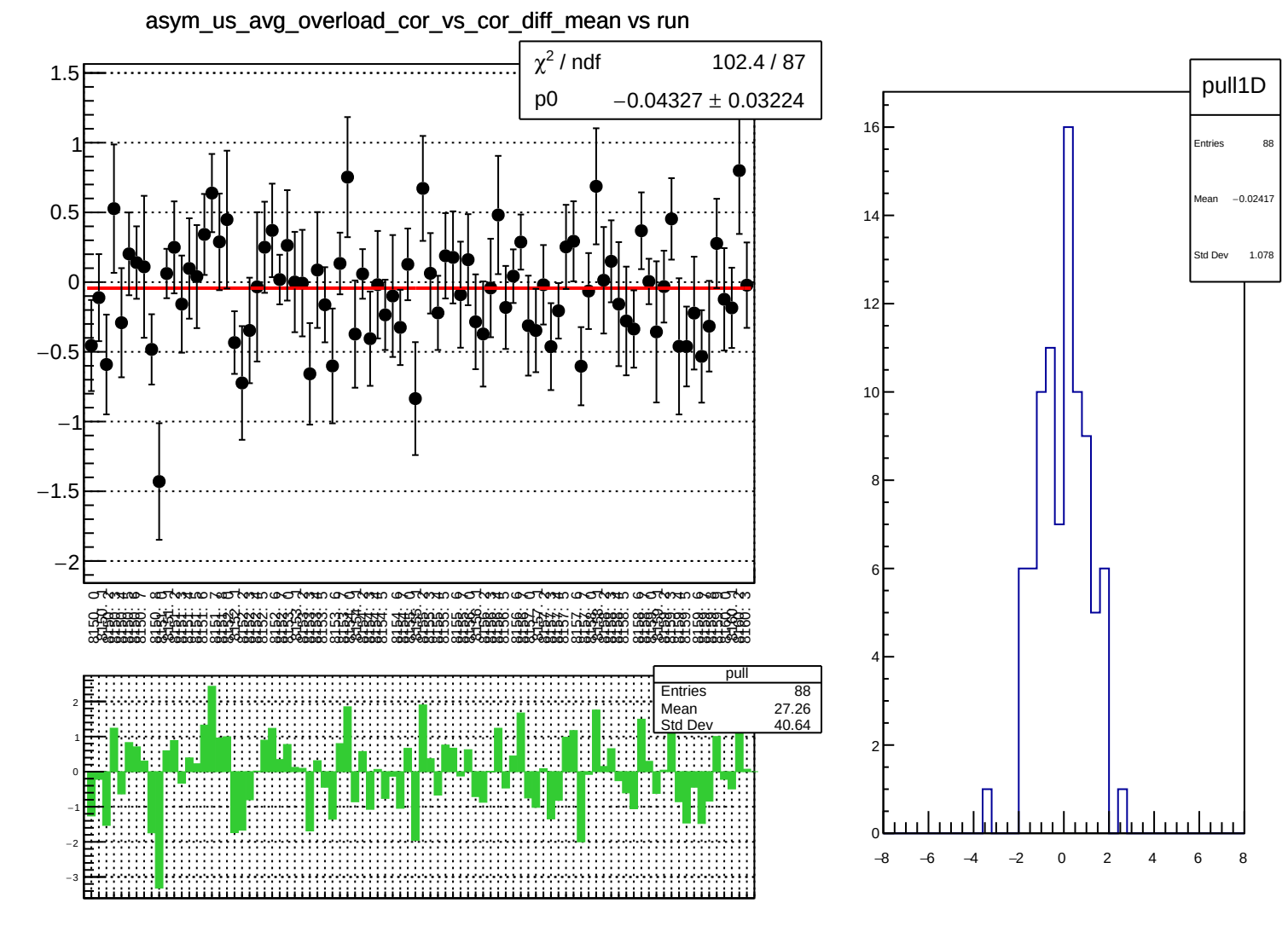

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.121e+04 / 87
p0 40.68 ± 0.03231
70
60
50
40
30
20

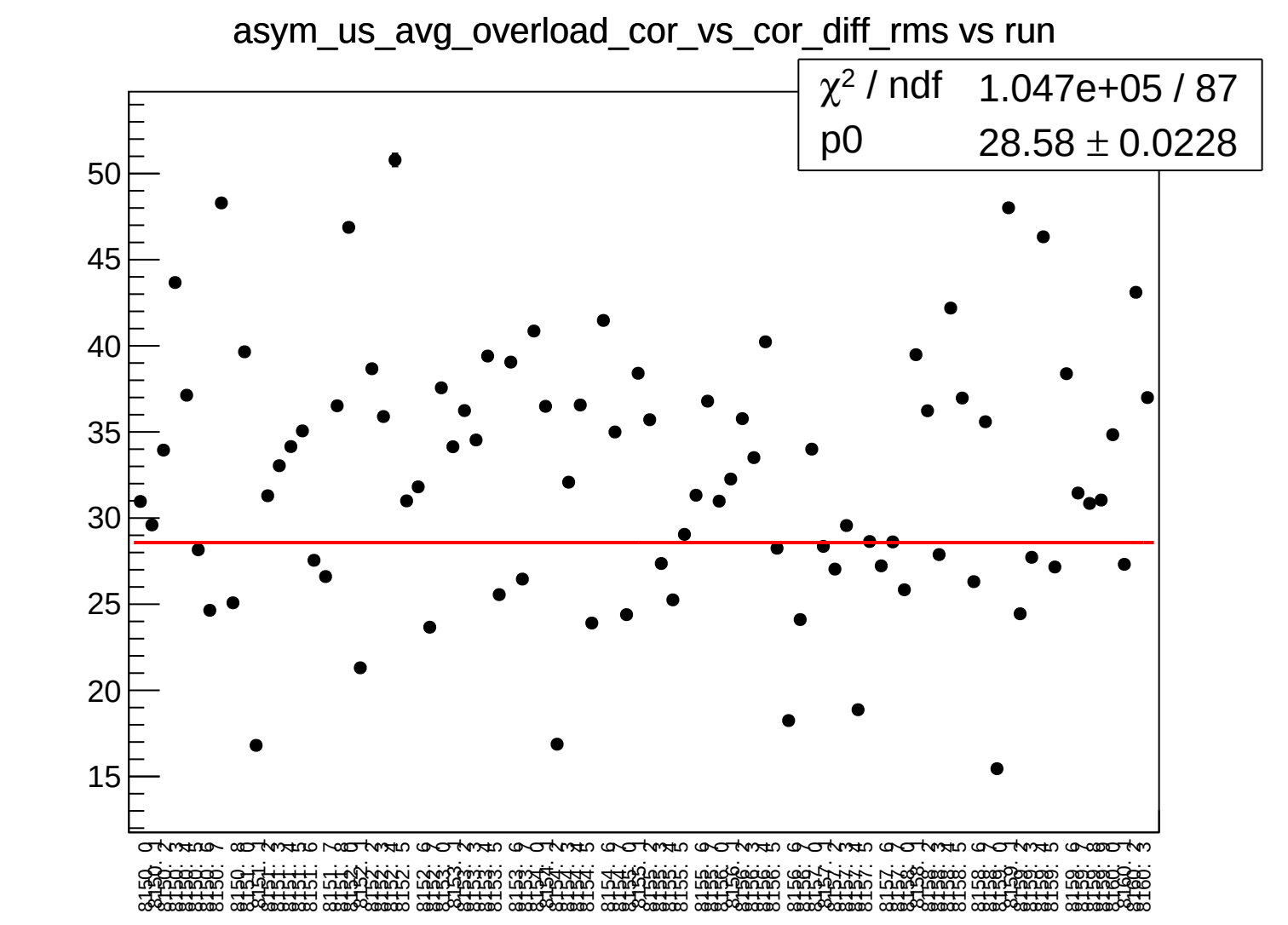

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 107.9 / 87
p0 0.03639 ± 0.05874
pull
Entries 88
Mean 3083
Std Dev 0
pull1D
Entries 88
Mean −0.0004017
Std Dev 1.107

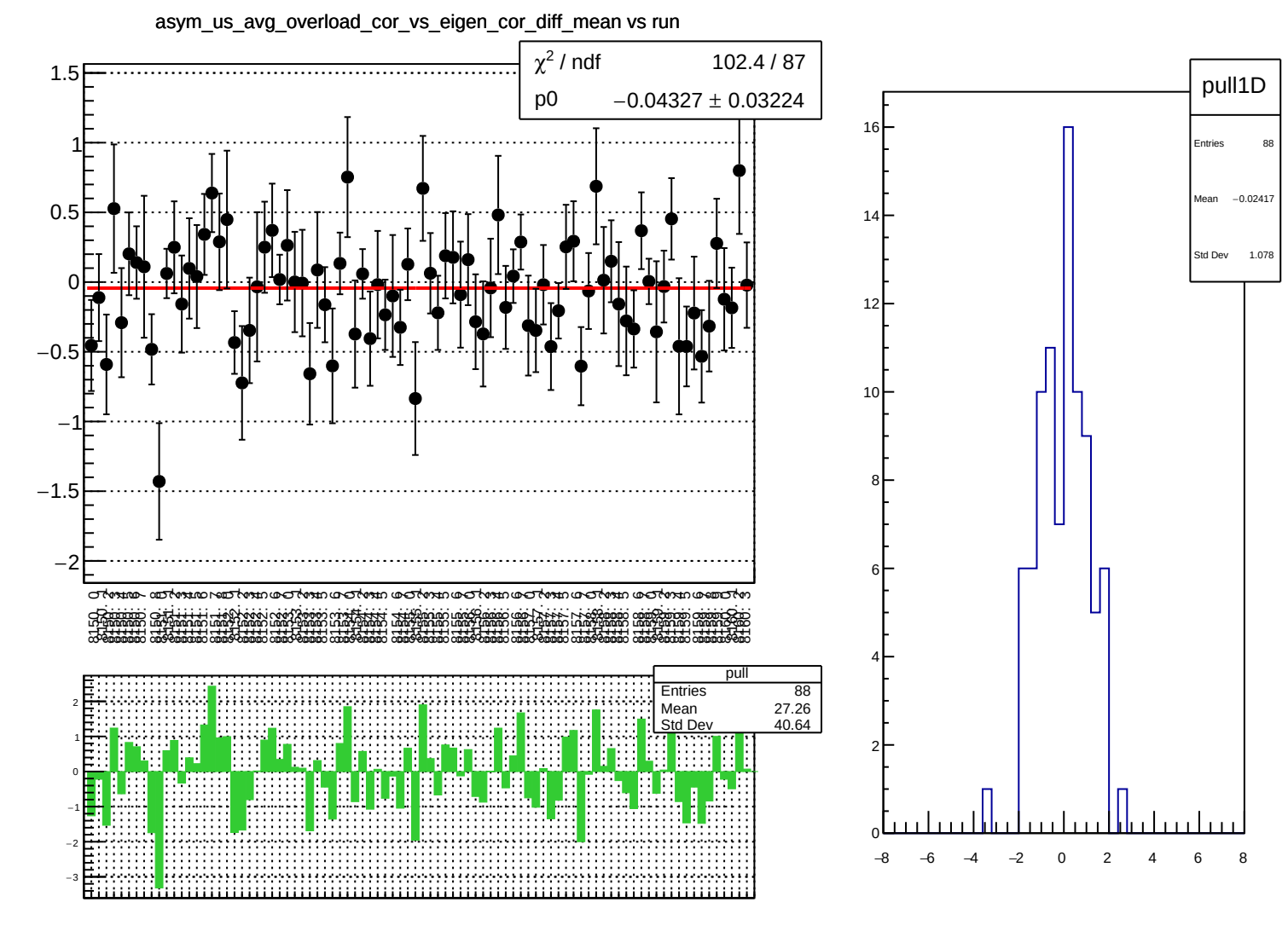

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.932e+04 / 87
p0 52.98 ± 0.04154
80
70
60
50
40

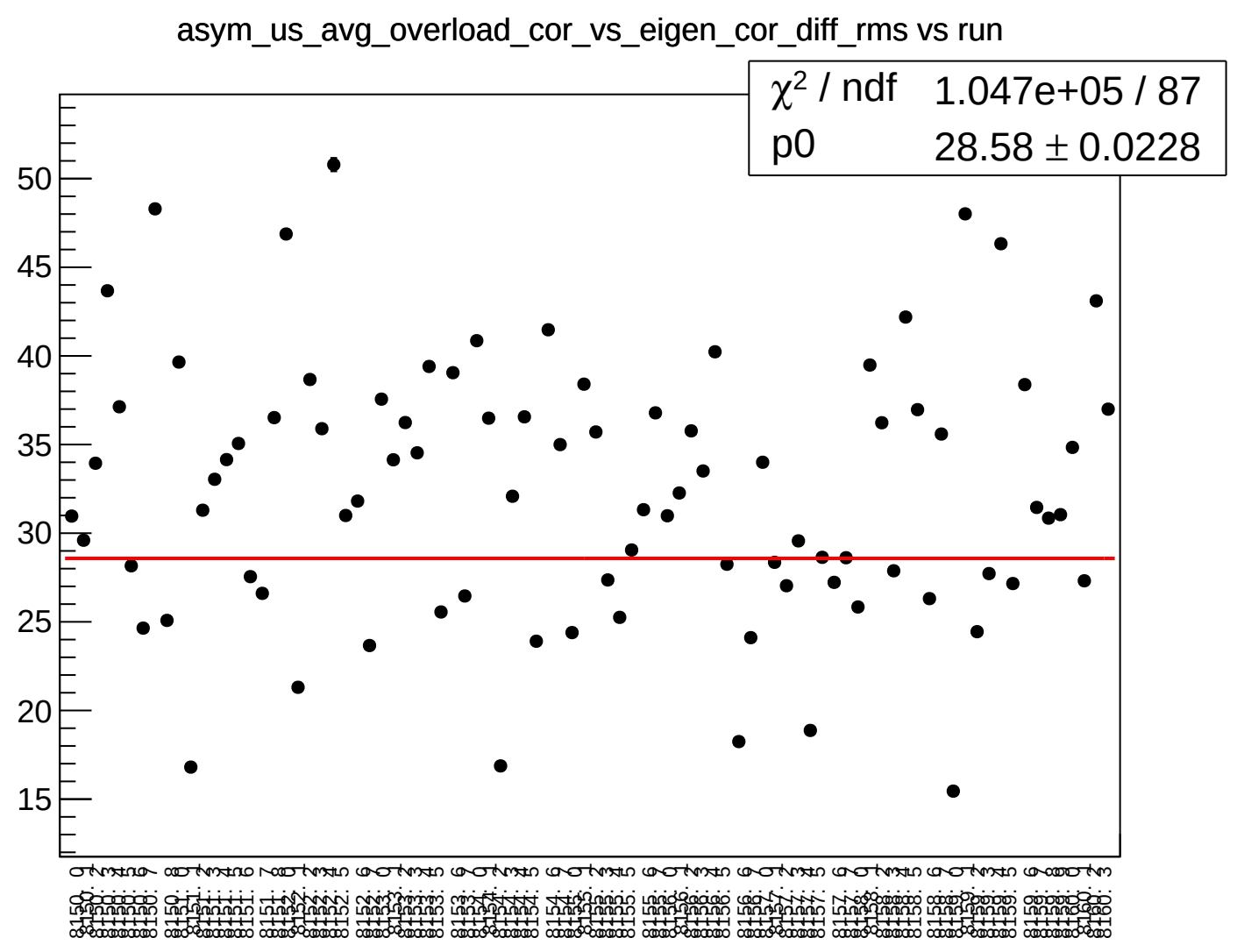

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.39 / 87
p0 −1.317e−13 ± 7.52e−14
pull
Entries 88
Mean 51.77
Std Dev 25.7
pull1D
Entries 88
Mean −0.1157
Std Dev 0.9059

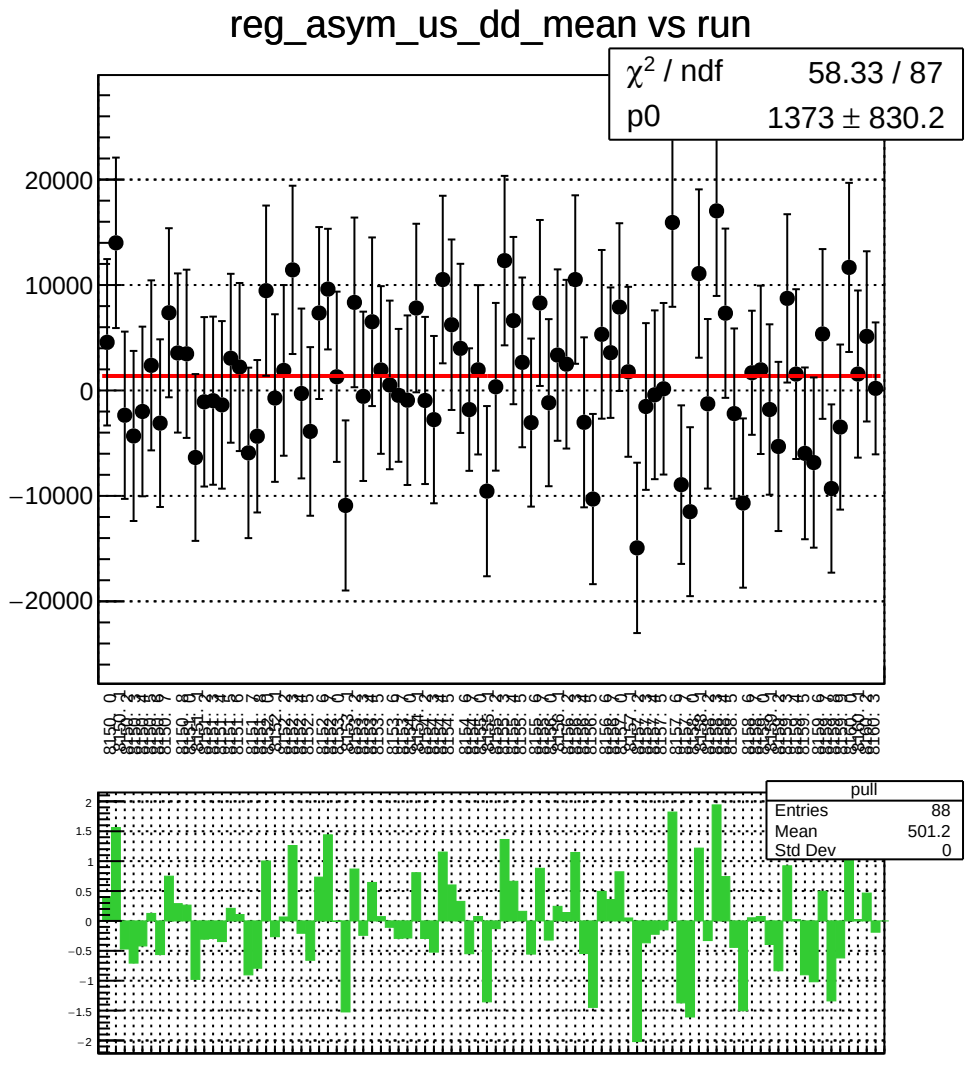

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.726e+05 / 87
p0 5.328e−11 ± 5.317e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

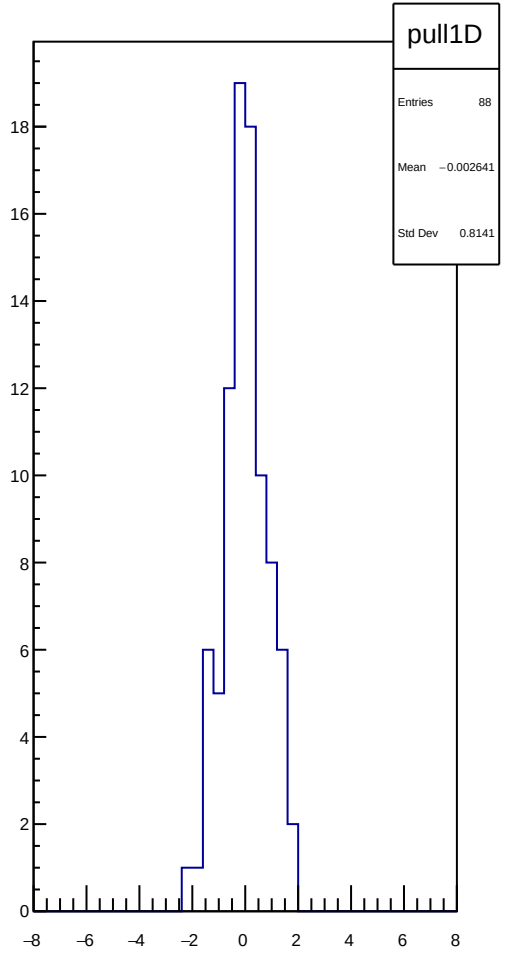

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 87
p0 −0.04327 ± 0.03224
pull
Entries 88
Mean 27.26
Std Dev 40.64
pull1D
Entries 88
Mean −0.02417
Std Dev 1.078

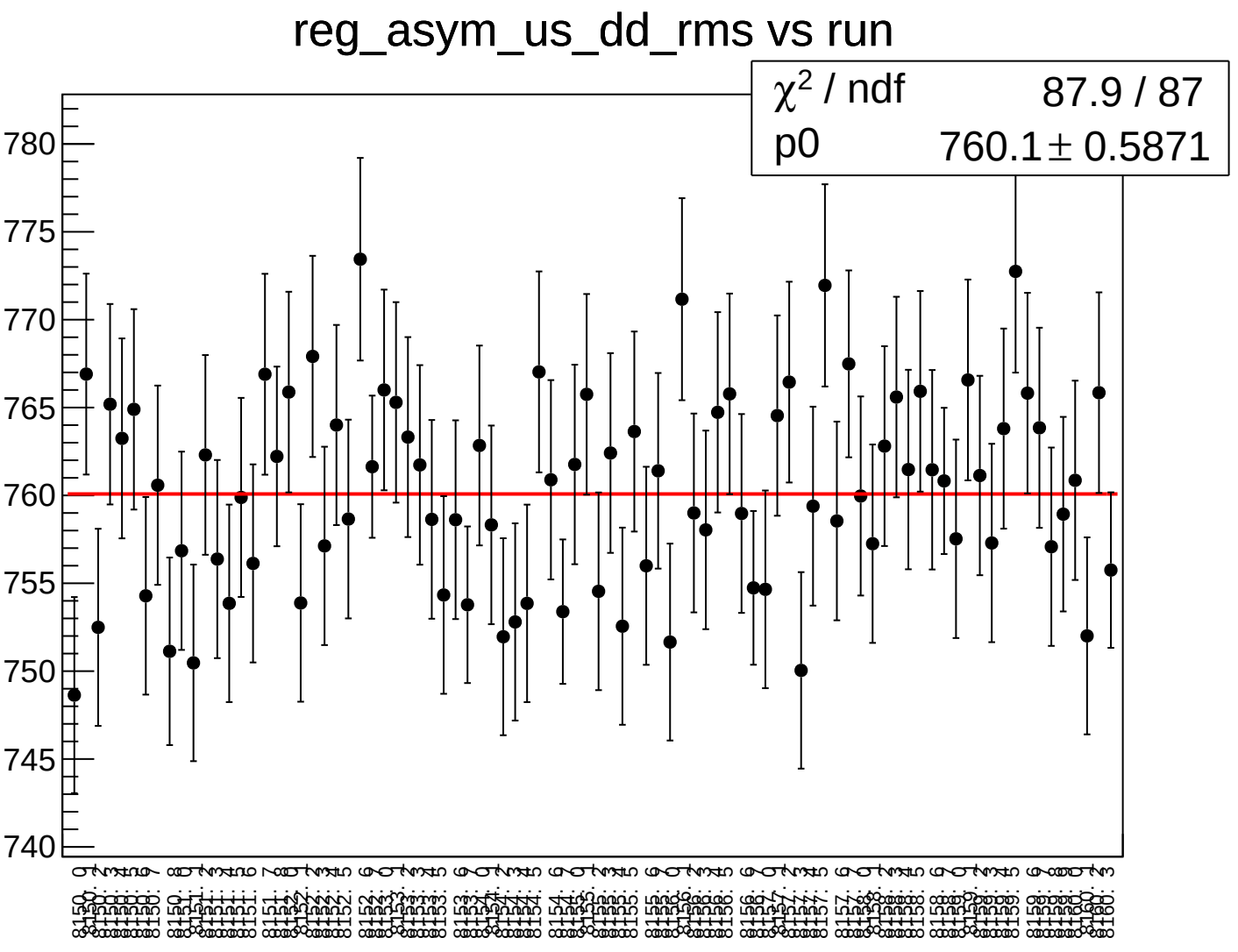

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.047e+05 / 87
p0 28.58 ± 0.0228
50
45
40
35
30
25
20
15

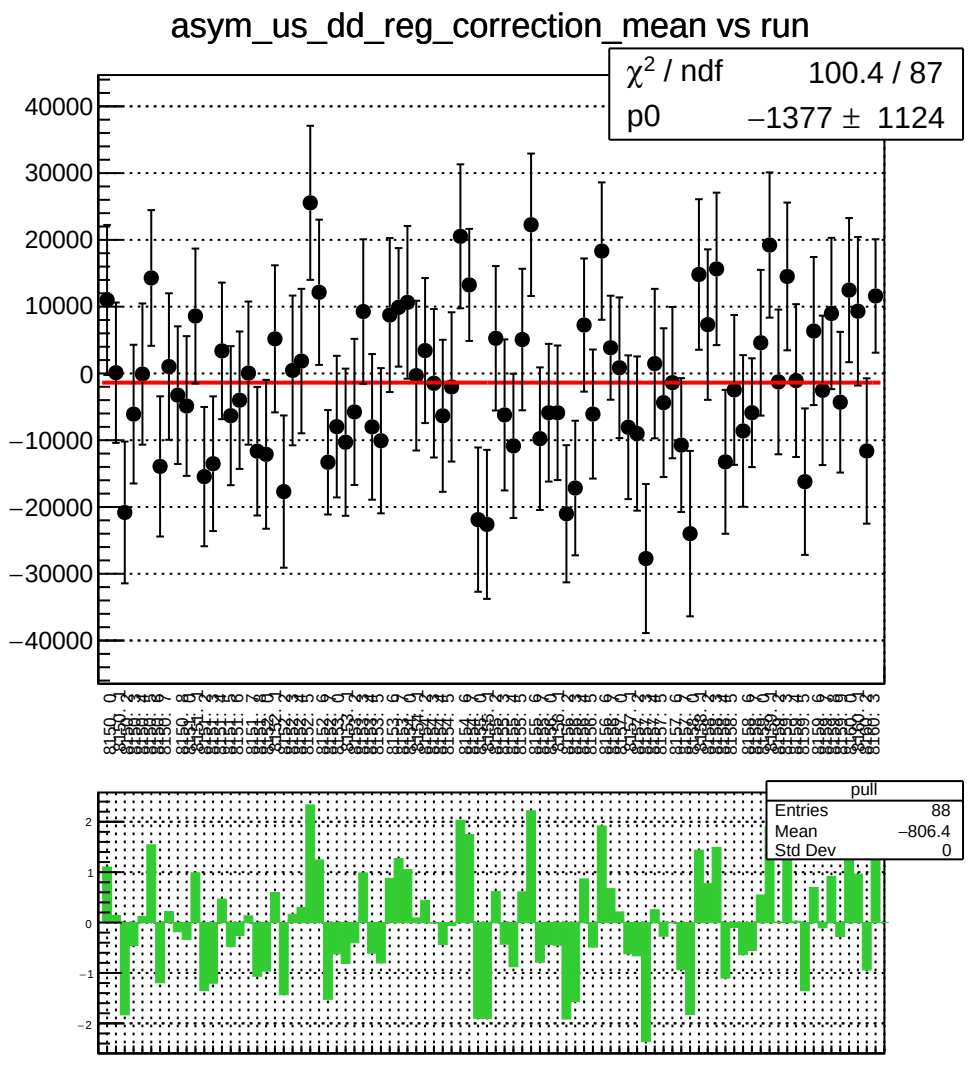

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.4 / 87
p0 −0.04327 ± 0.03224
pull
Entries 88
Mean 27.26
Std Dev 40.64
pull1D
Entries 88
Mean −0.02417
Std Dev 1.078

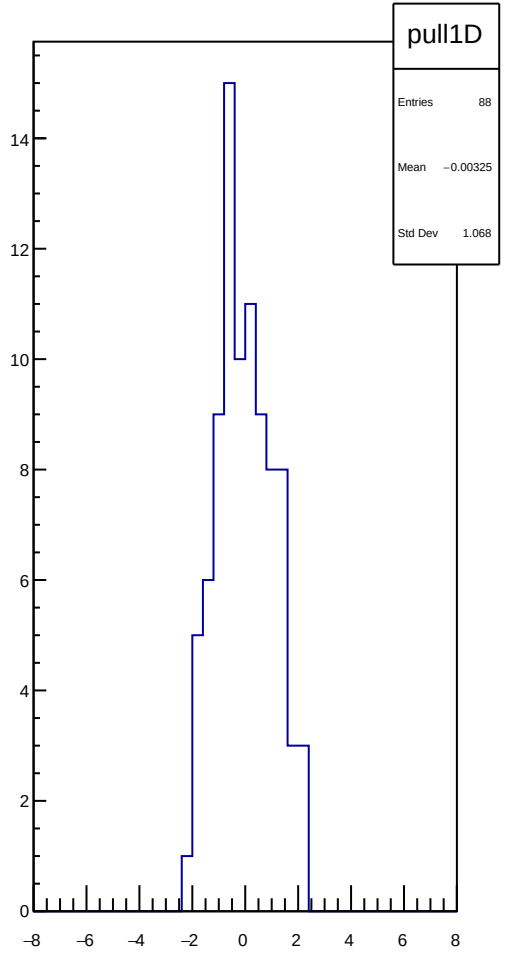

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.047e+05 / 87
p0 28.58 ± 0.0228
50
45
40
35
30
25
20
15

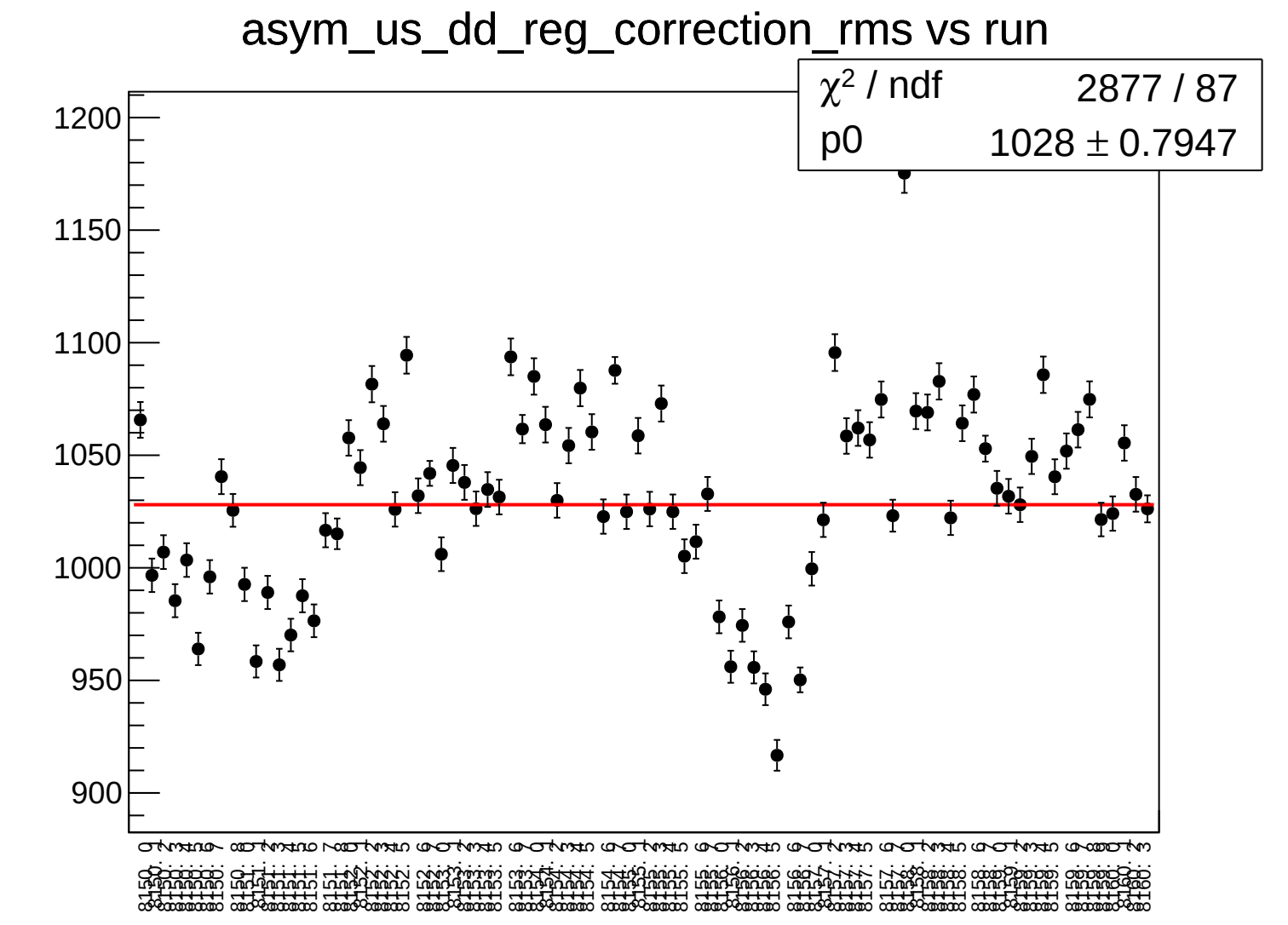

reg_asym_us_dd_mean vs run
χ² / ndf 58.33 / 87
p0 1373 ± 830.2
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 501.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

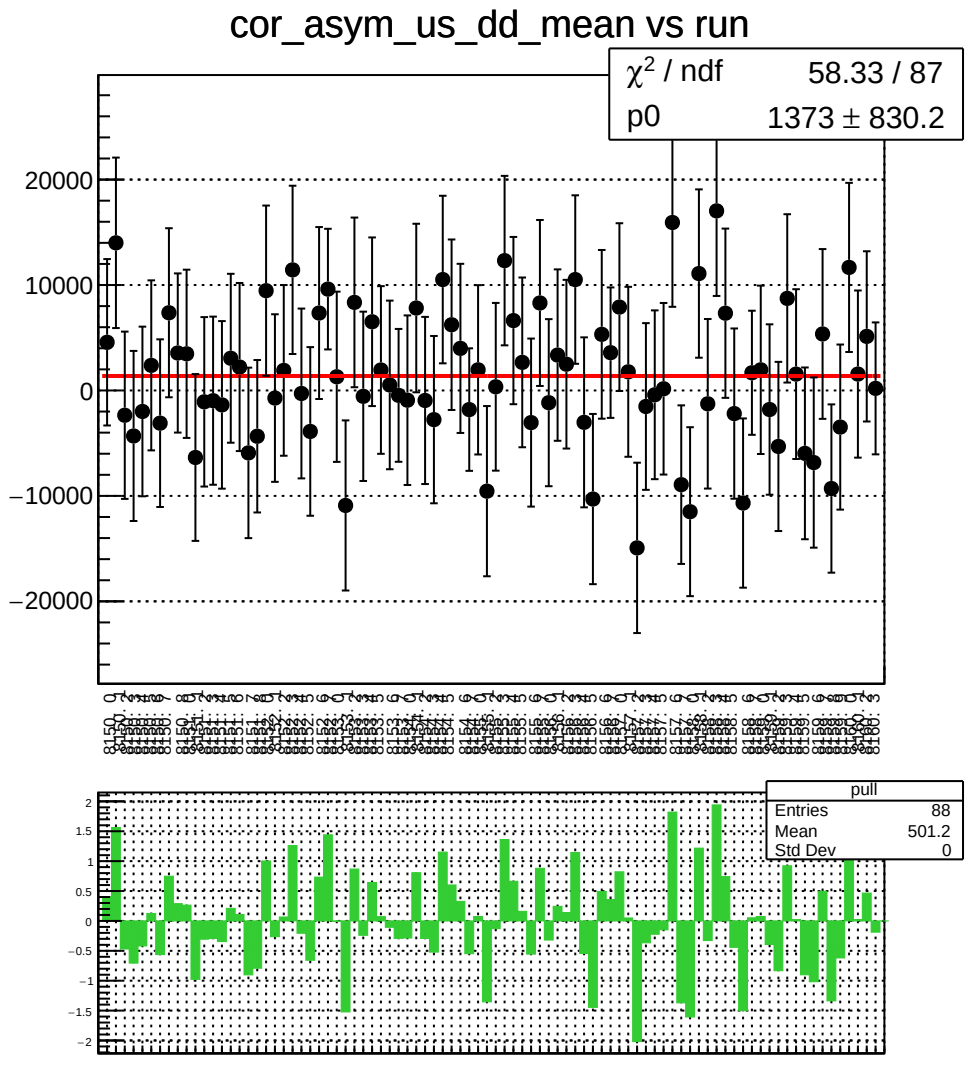

pull1D
Entries 88
Mean −0.002641
Std Dev 0.8141
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

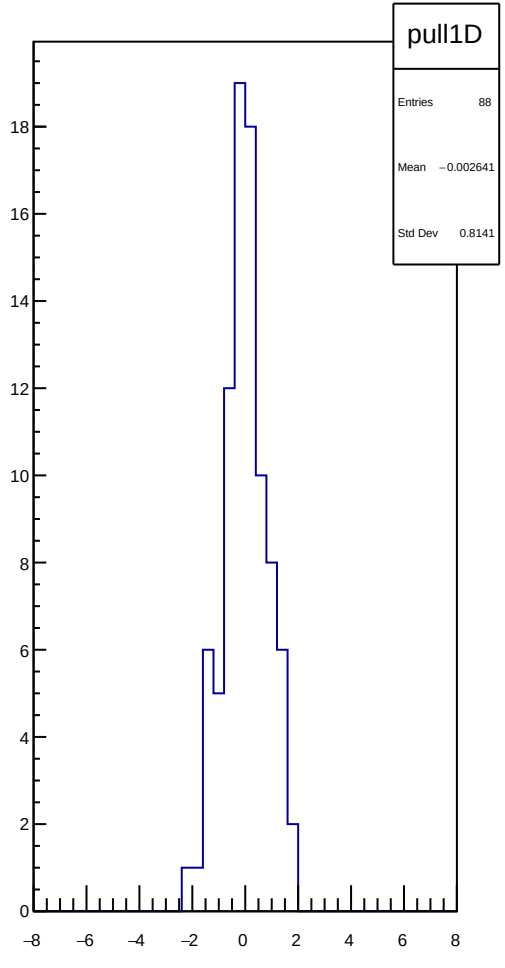

reg_asym_us_dd_rms vs run
χ² / ndf 87.9 / 87
p0 760.1 ± 0.5871
780
775
770
765
760
755
750
745
740

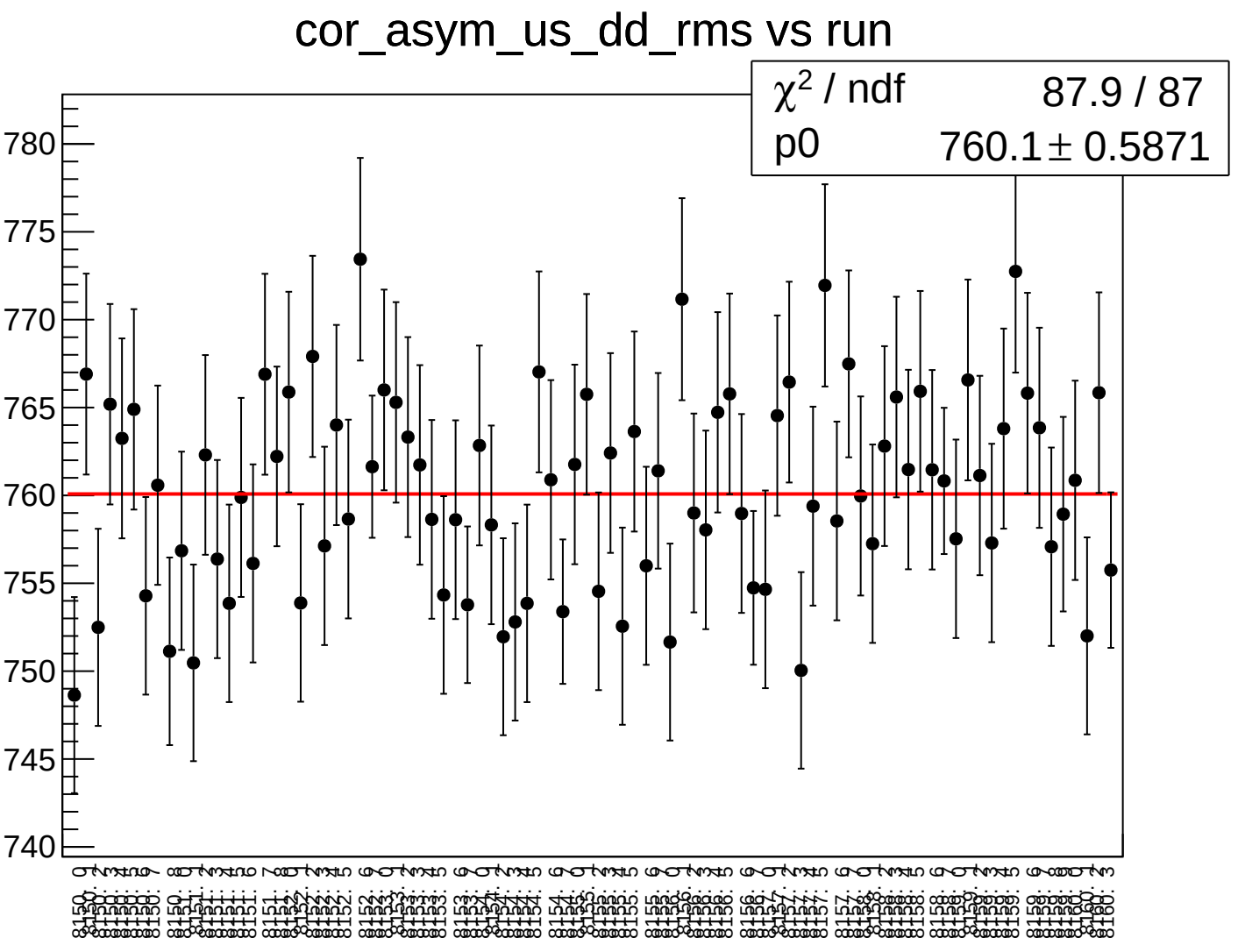

asym_us_dd_reg_correction_mean vs run
χ² / ndf 100.4 / 87
p0 −1377 ± 1124
pull
Entries 88
Mean −806.4
Std Dev 0

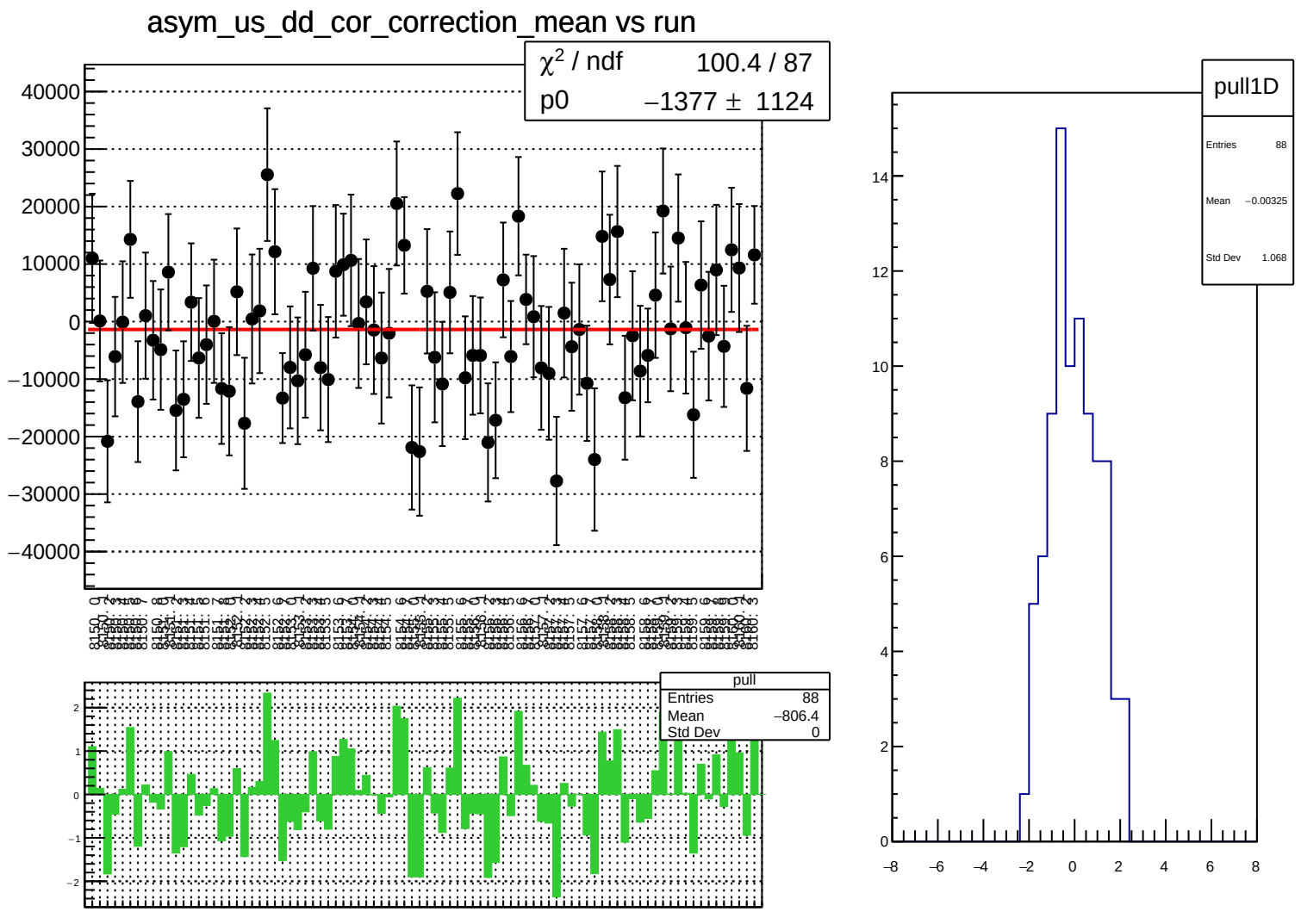

pull1D
Entries 88
Mean −0.00325
Std Dev 1.068

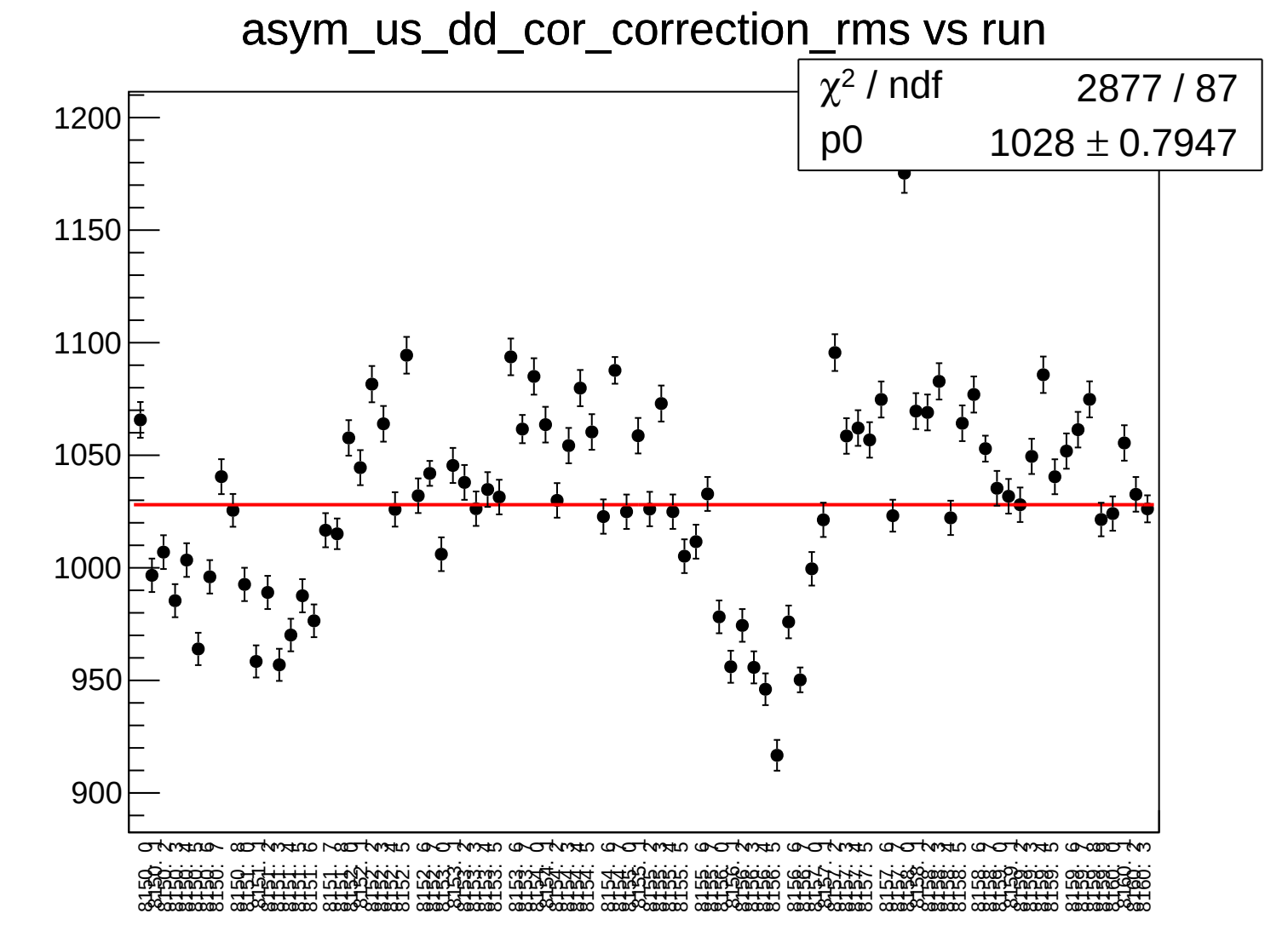

asym_us_dd_reg_correction_rms vs run
χ² / ndf 2877 / 87
p0 1028 ± 0.7947
1200
1150
1100
1050
1000
950
900

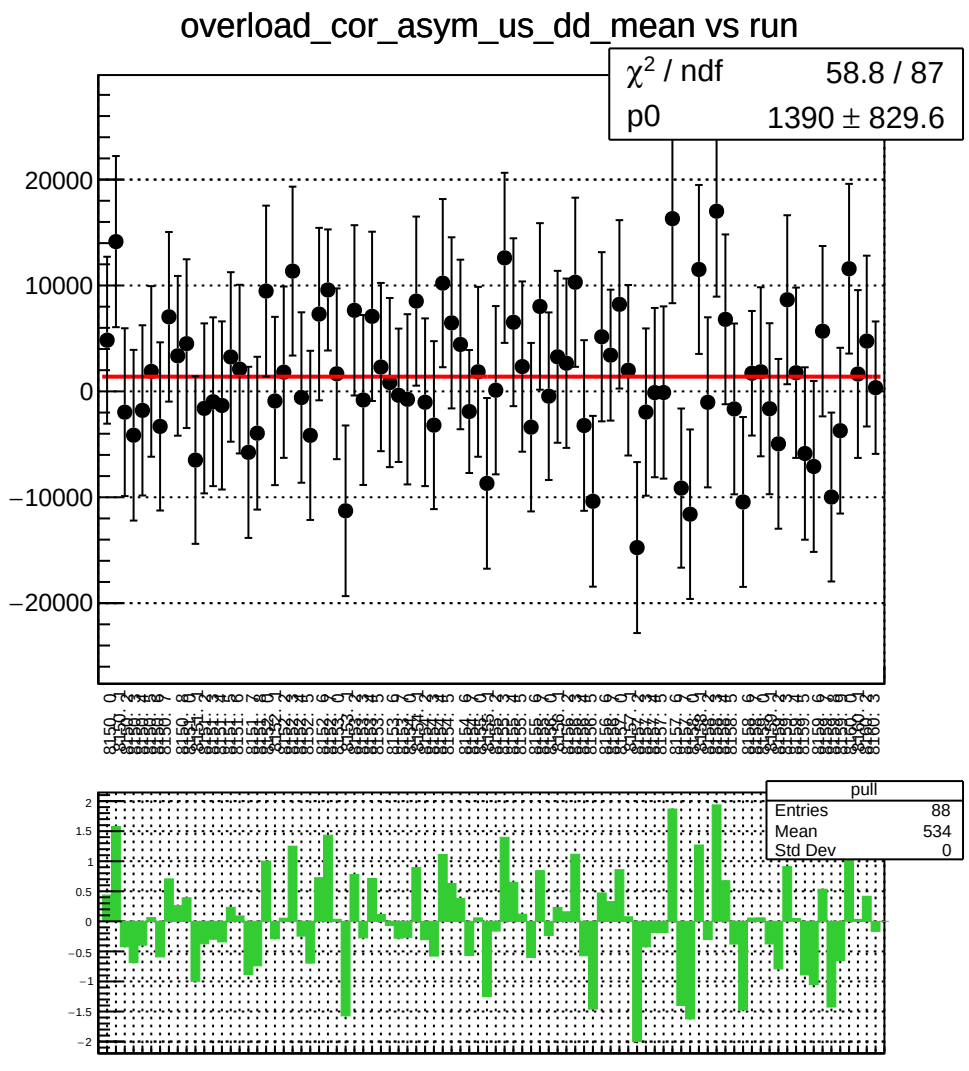

cor_asym_us_dd_mean vs run
χ² / ndf 58.33 / 87
p0 1373 ± 830.2
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 501.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

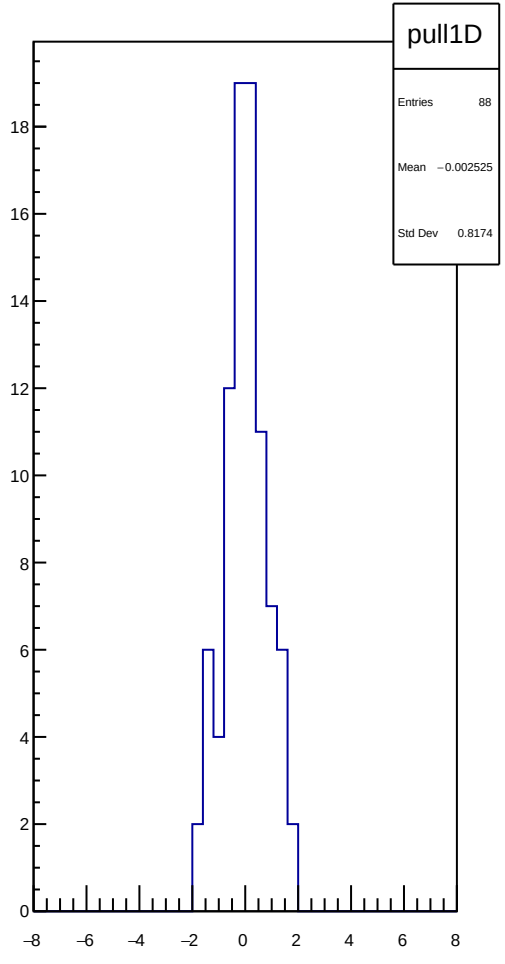

pull1D
Entries 88
Mean −0.002641
Std Dev 0.8141
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

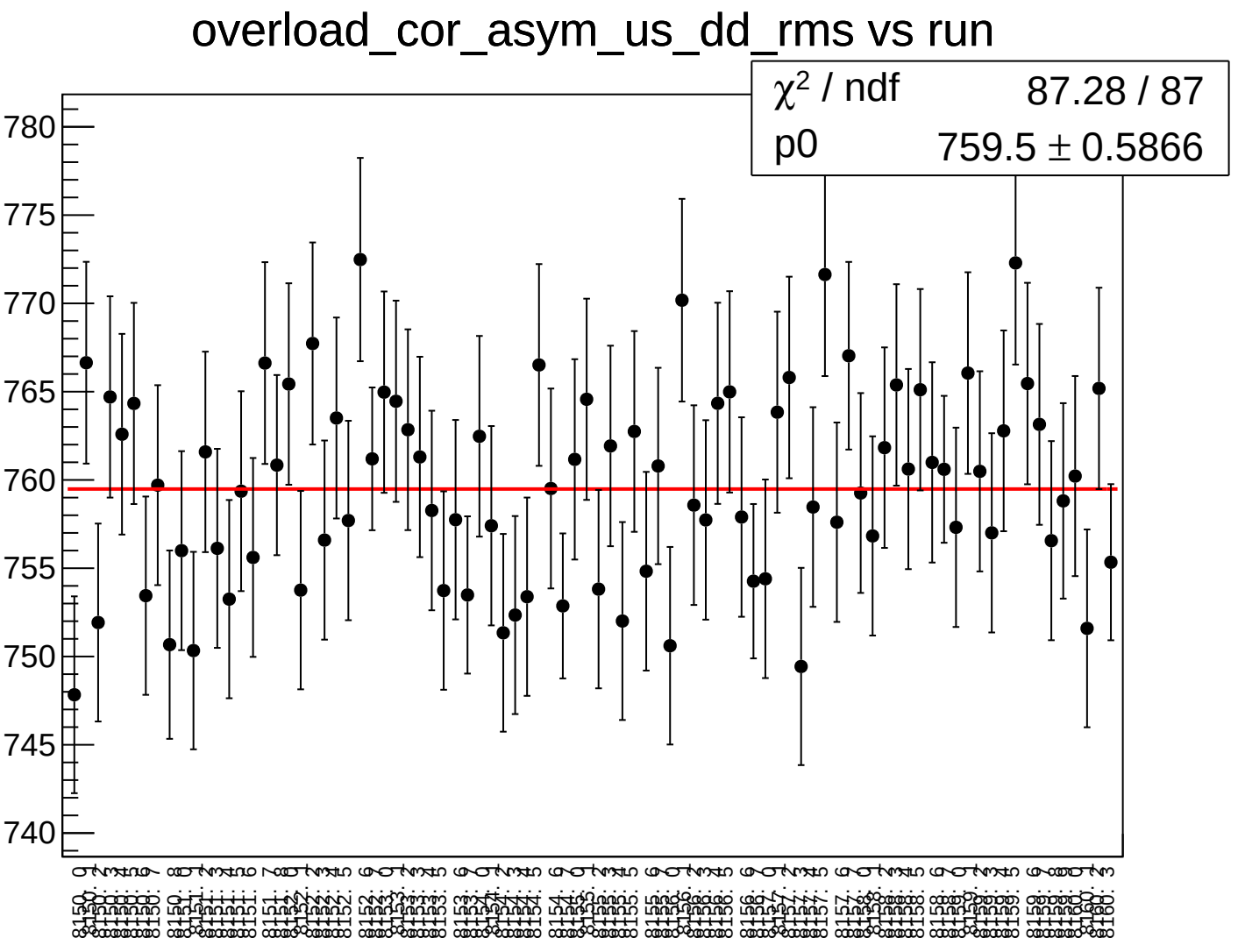

cor_asym_us_dd_rms vs run
χ^2 / ndf 87.9 / 87
p0 760.1 ± 0.5871
780
775
770
765
760
755
750
745
740

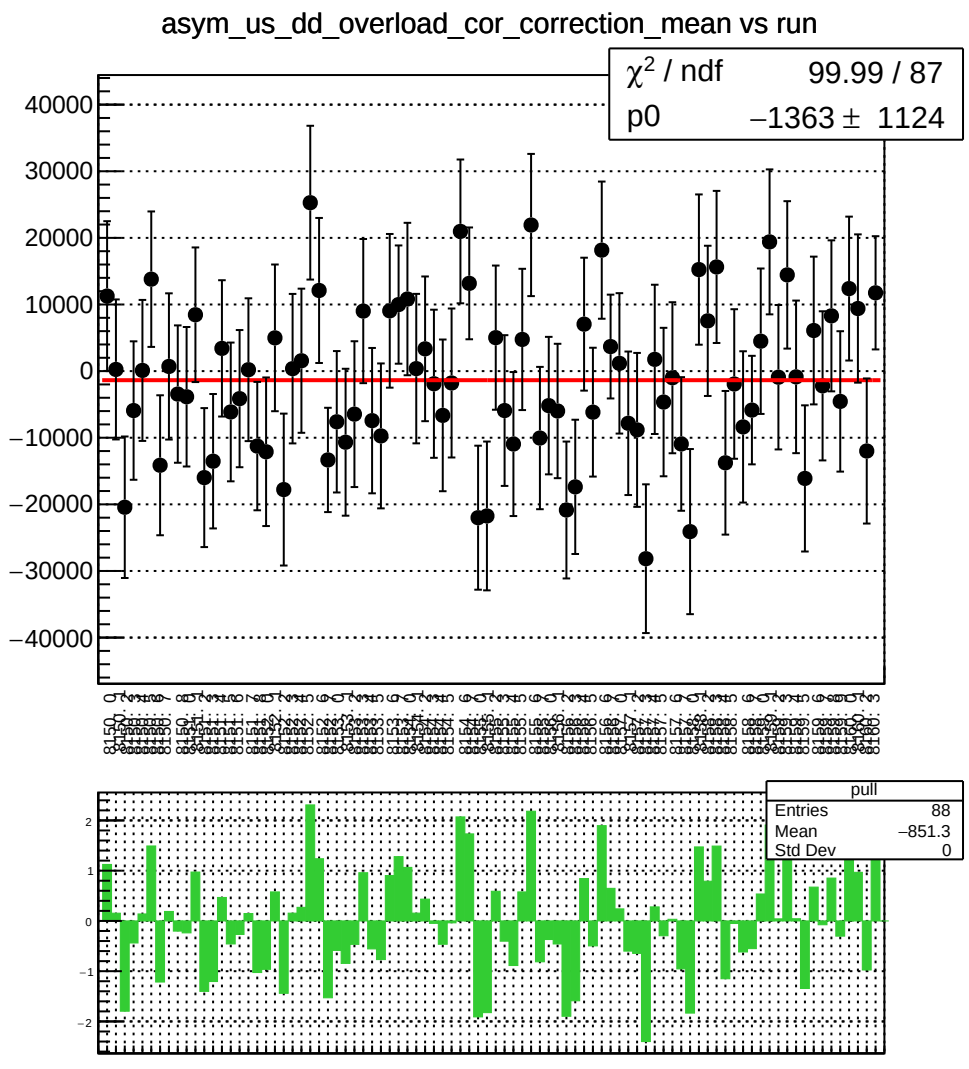

asym_us_dd_cor_correction_mean vs run
χ² / ndf 100.4 / 87
p0 −1377 ± 1124
pull
Entries 88
Mean −806.4
Std Dev 0
pull1D
Entries 88
Mean −0.00325
Std Dev 1.068

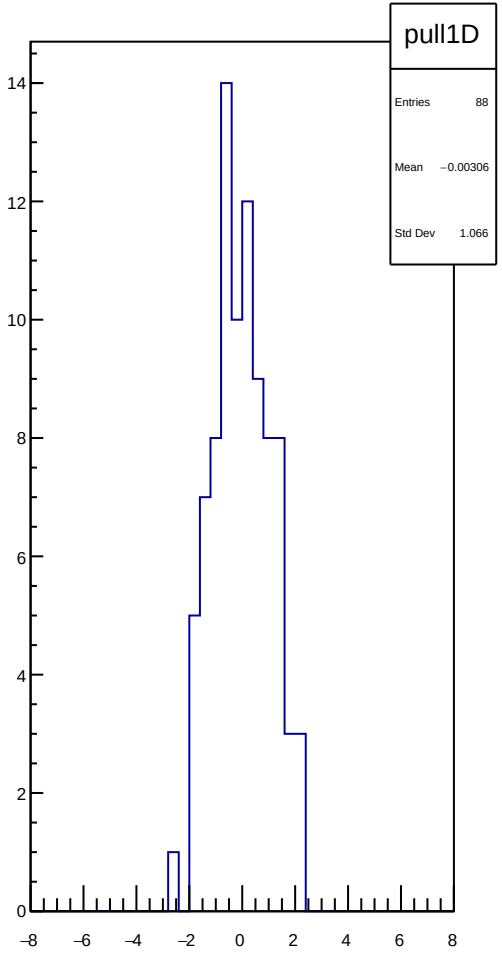

asym_us_dd_cor_correction_rms vs run
χ² / ndf 2877 / 87
p0 1028 ± 0.7947
1200
1150
1100
1050
1000
950
900

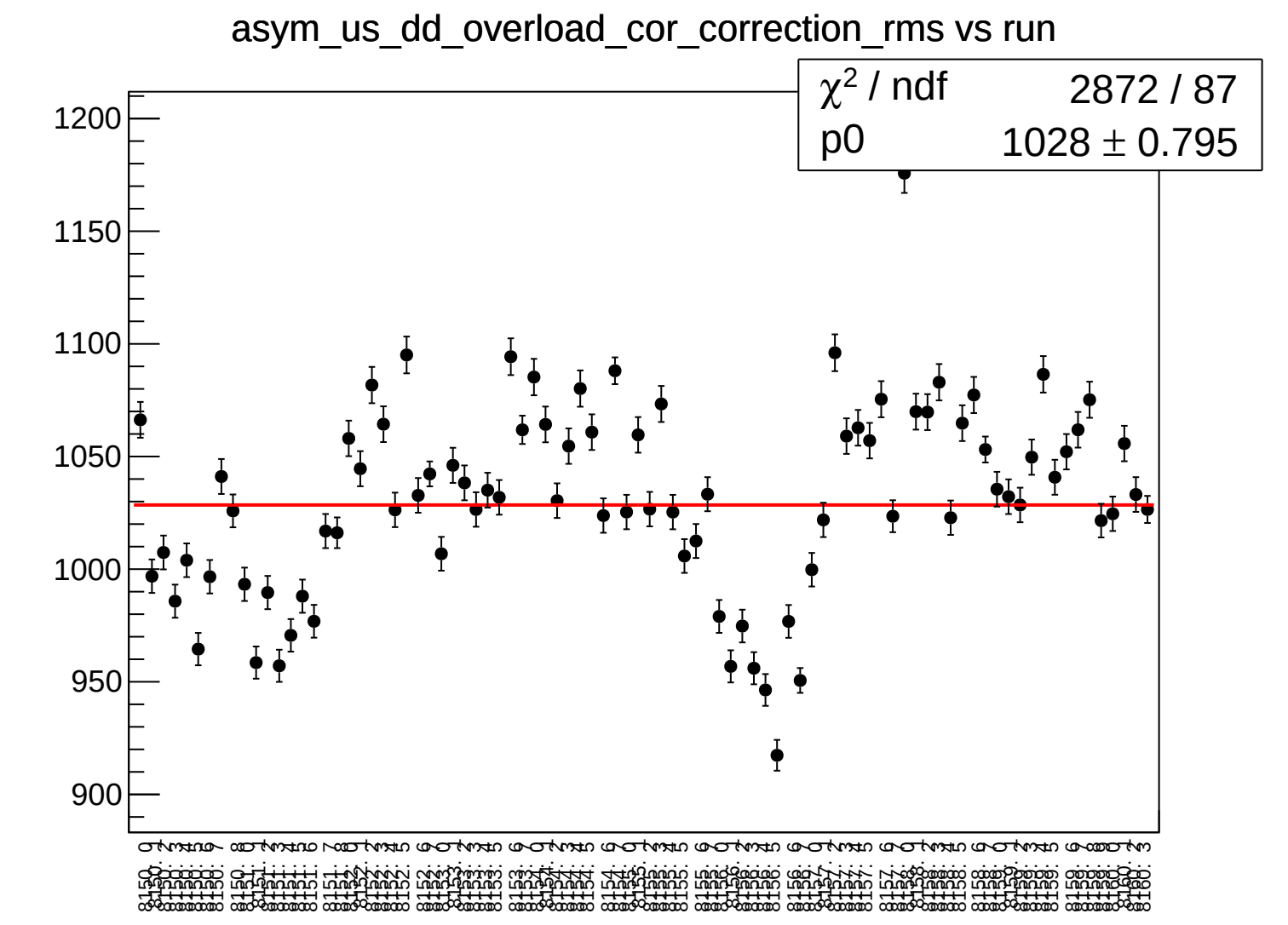

overload_cor_asym_us_dd_mean vs run
χ² / ndf 58.8 / 87
p0 1390 ± 829.6
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 534
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

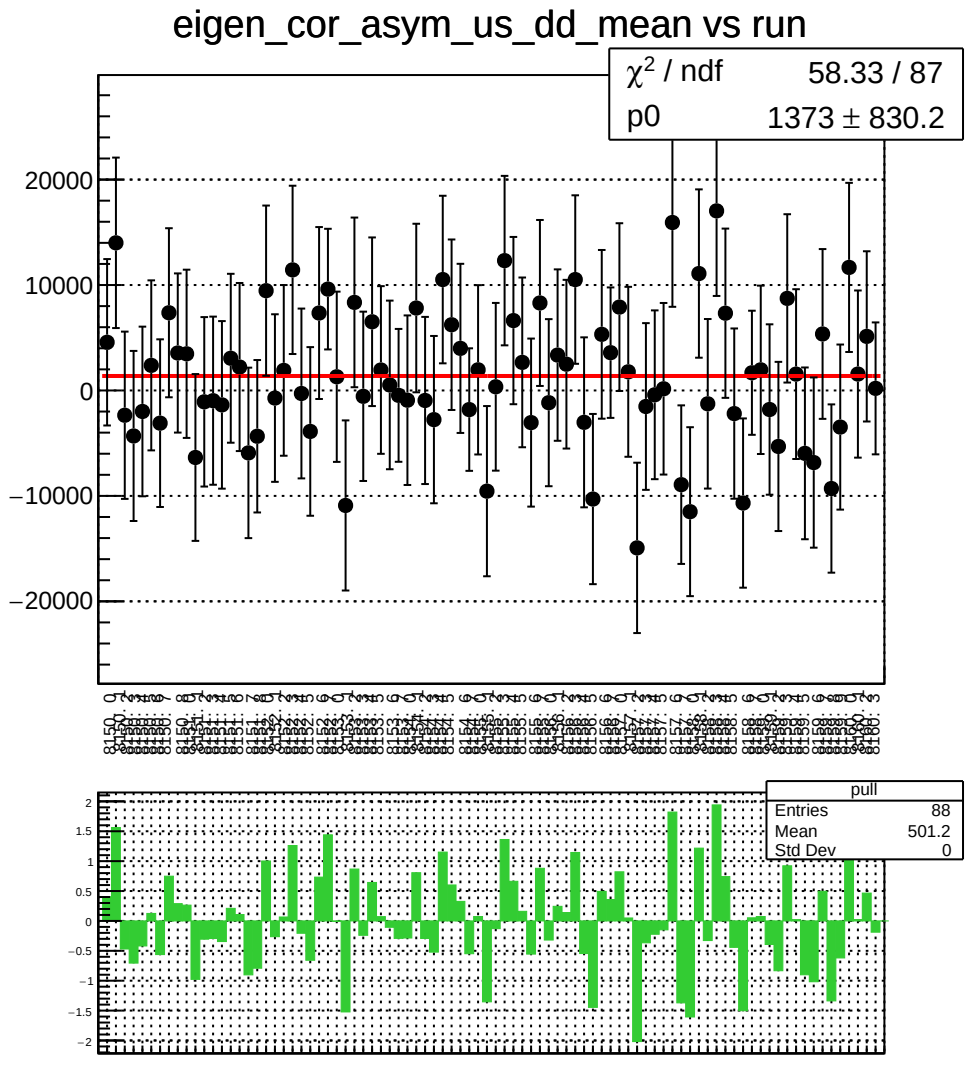

pull1D
Entries 88
Mean −0.002525
Std Dev 0.8174
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

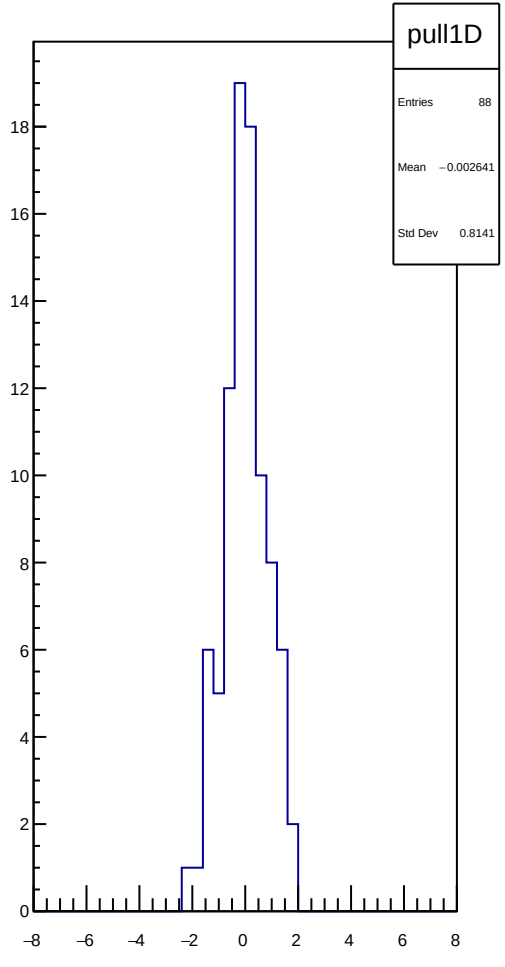

overload_cor_asym_us_dd_rms vs run
χ² / ndf 87.28 / 87
p0 759.5 ± 0.5866
780
775
770
765
760
755
750
745
740

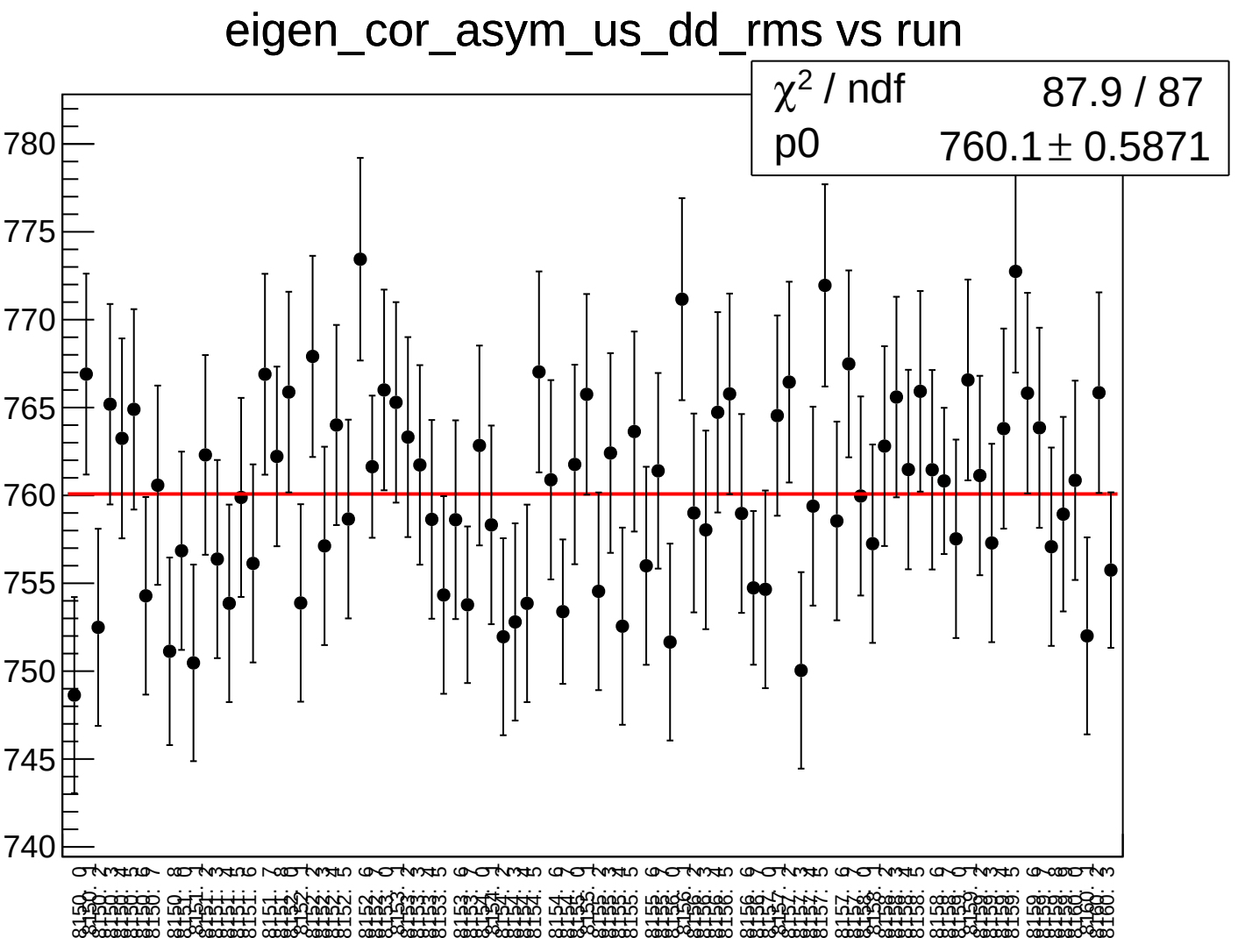

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 99.99 / 87
p0 −1363 ± 1124
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −851.3
Std Dev 0
2
1
0
−1
−2

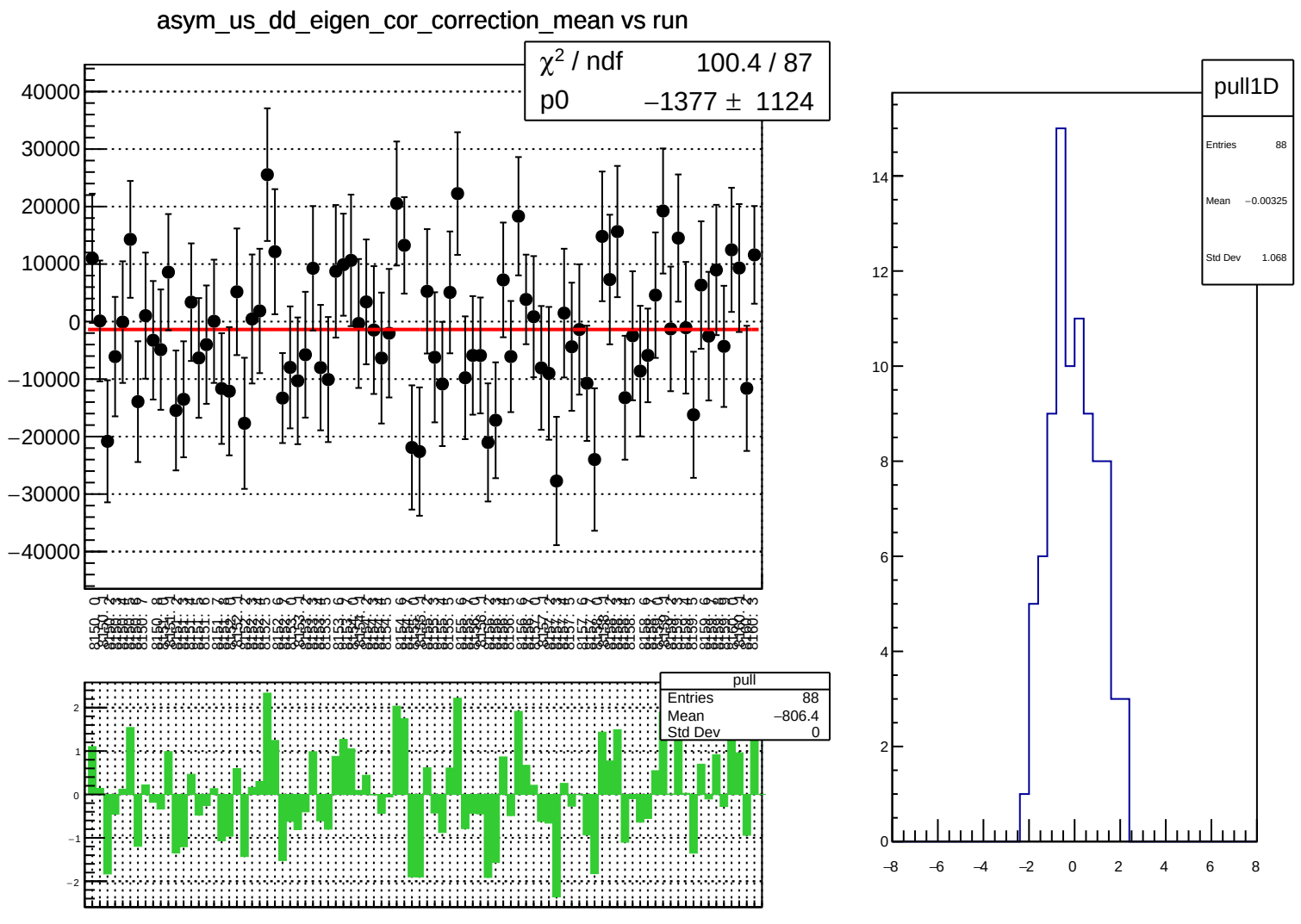

pull1D
Entries 88
Mean −0.00306
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

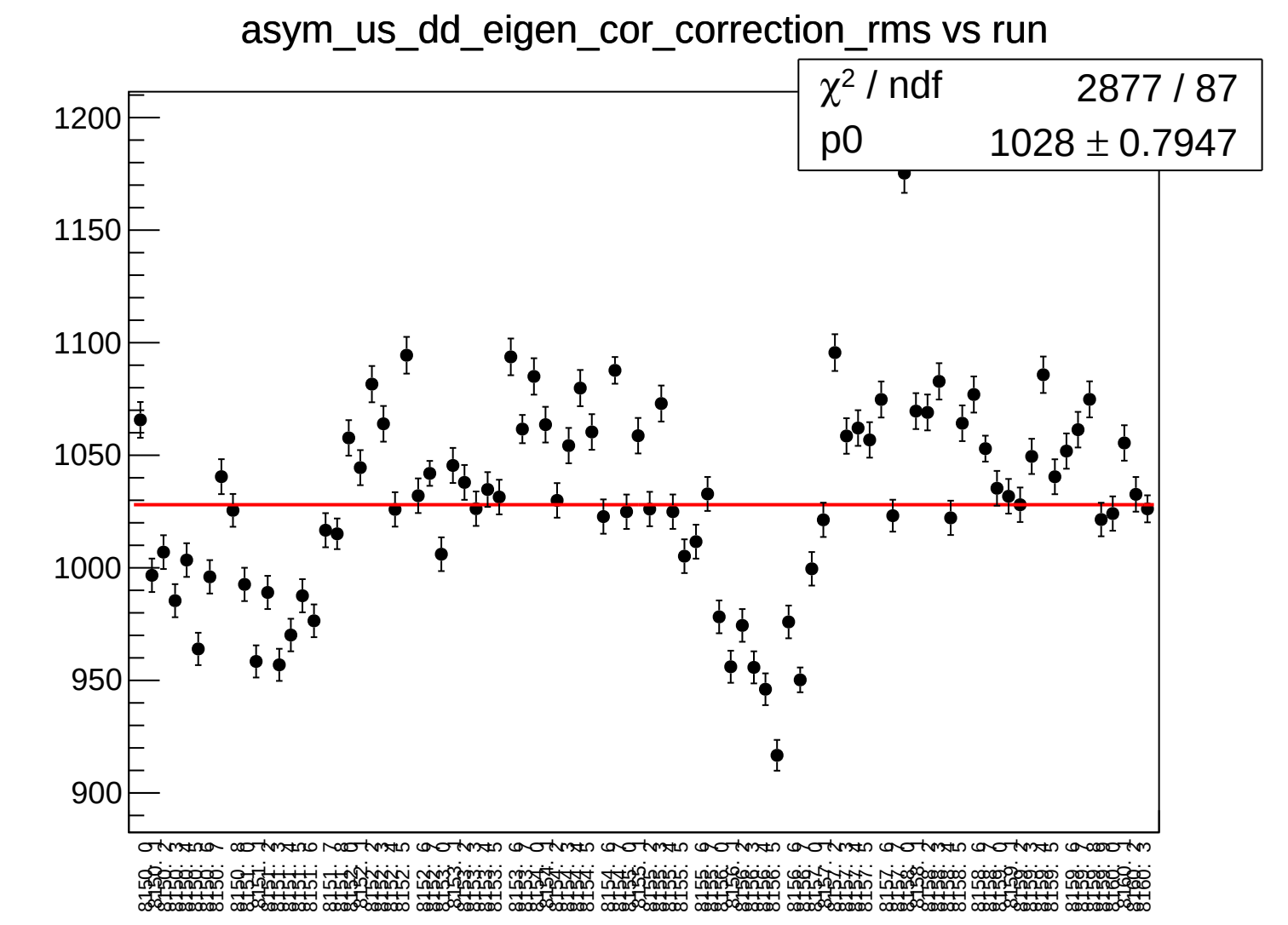

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 2872 / 87
p0 1028 ± 0.795
1200
1150
1100
1050
1000
950
900

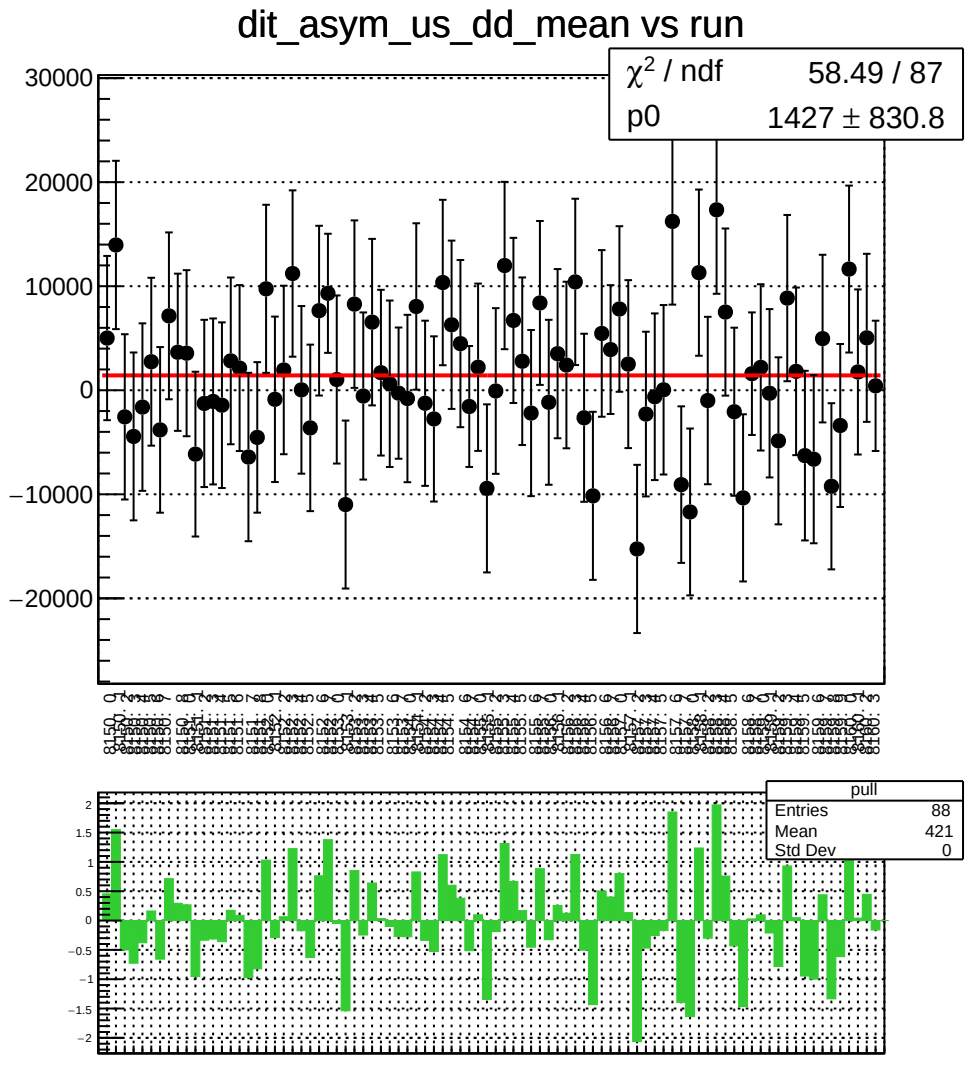

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 58.33 / 87
p0 1373 ± 830.2
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 501.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

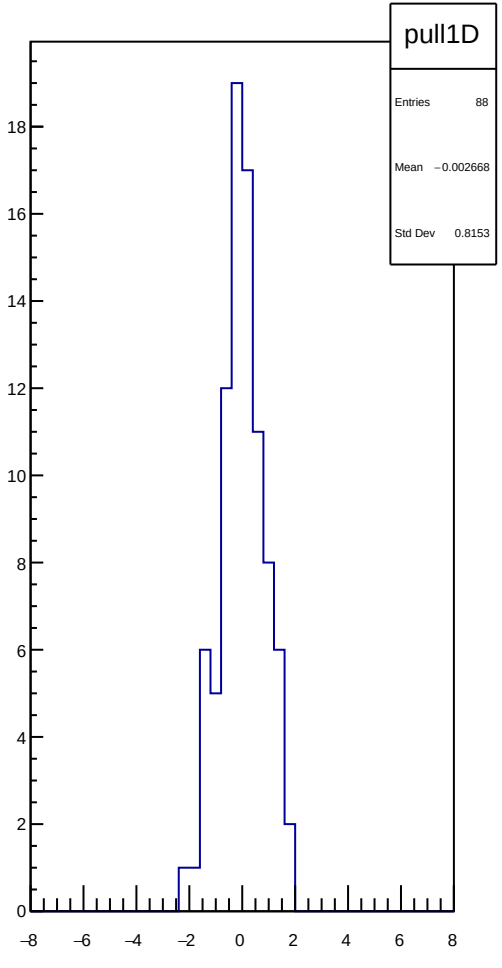

pull1D
Entries 88
Mean −0.002641
Std Dev 0.8141
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

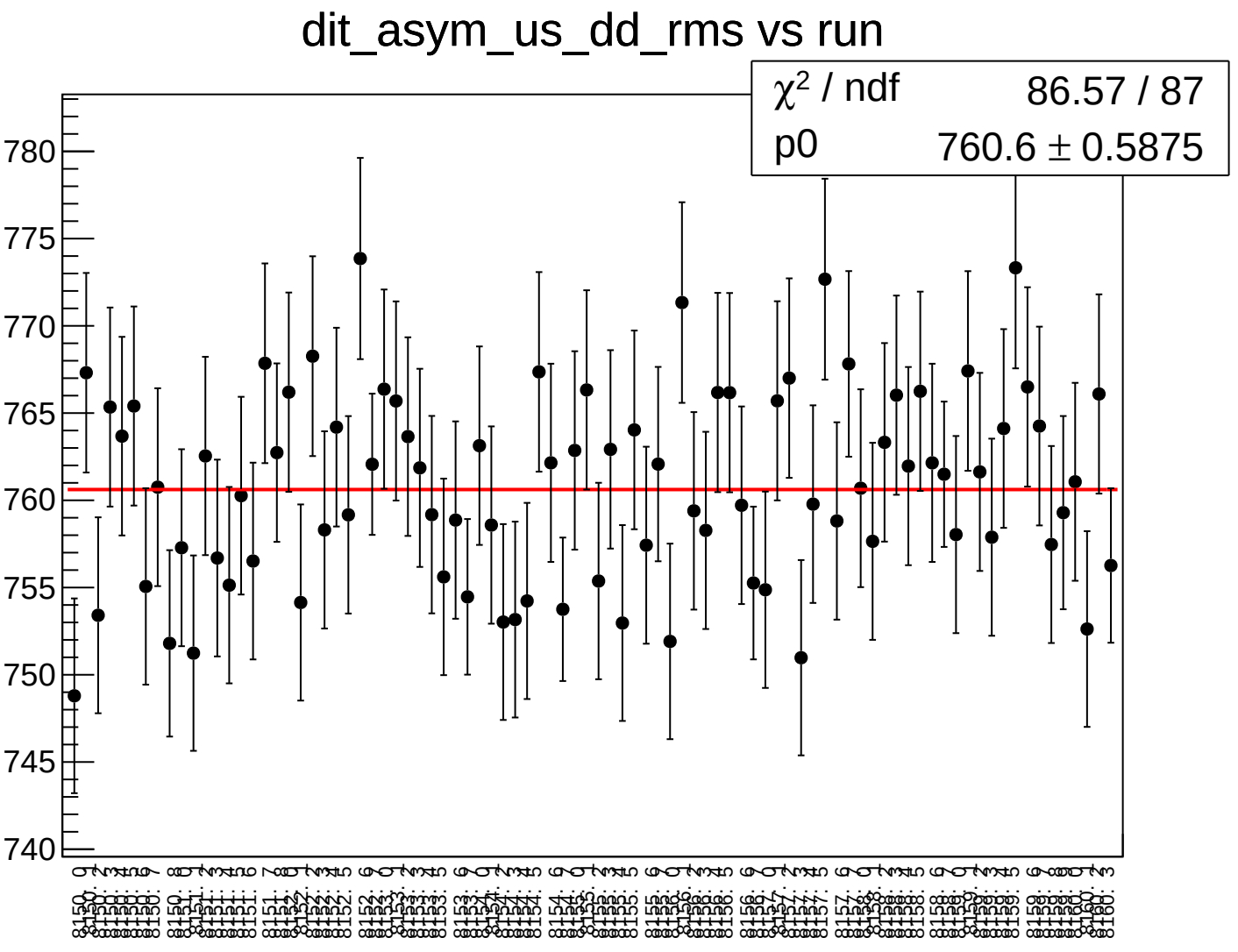

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 87.9 / 87
p0 760.1 ± 0.5871
780
775
770
765
760
755
750
745
740

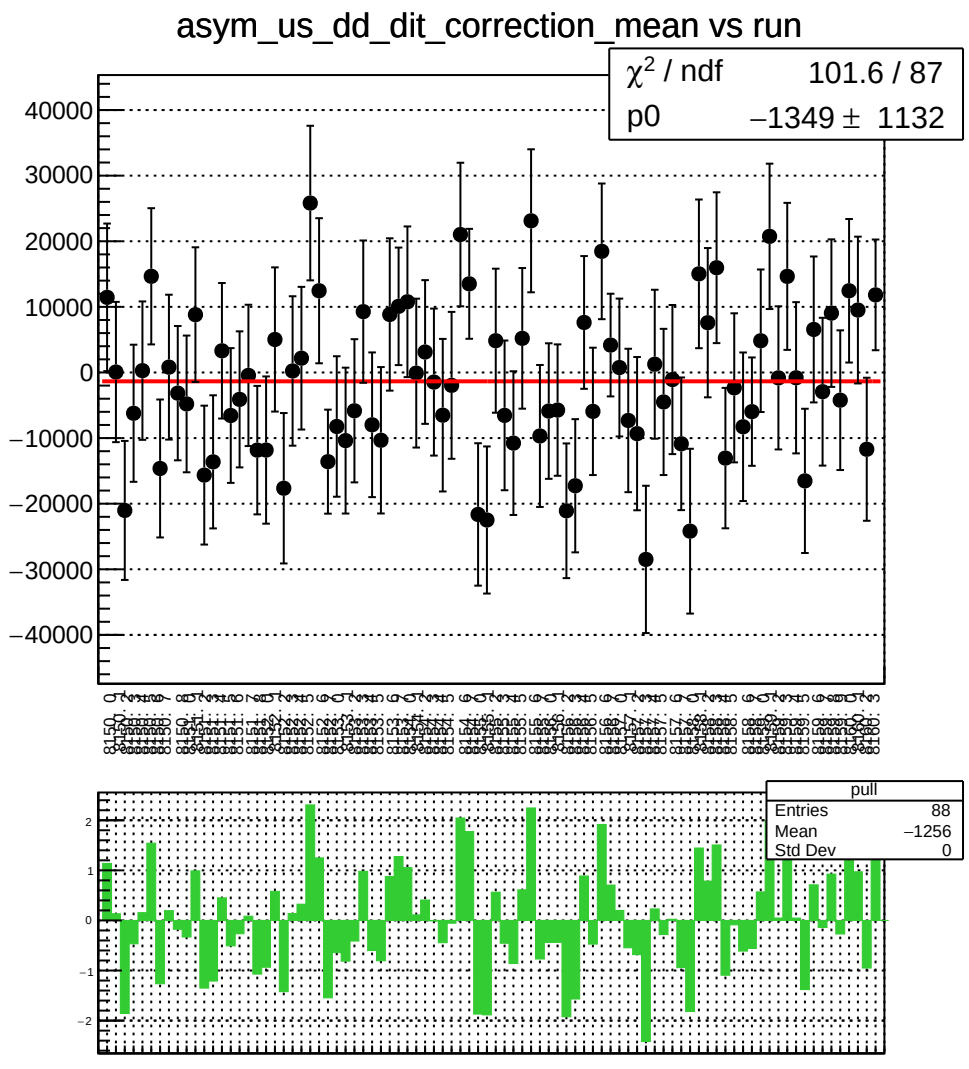

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.4 / 87
p0 −1377 ± 1124
pull
Entries 88
Mean −806.4
Std Dev 0
pull1D
Entries 88
Mean −0.00325
Std Dev 1.068

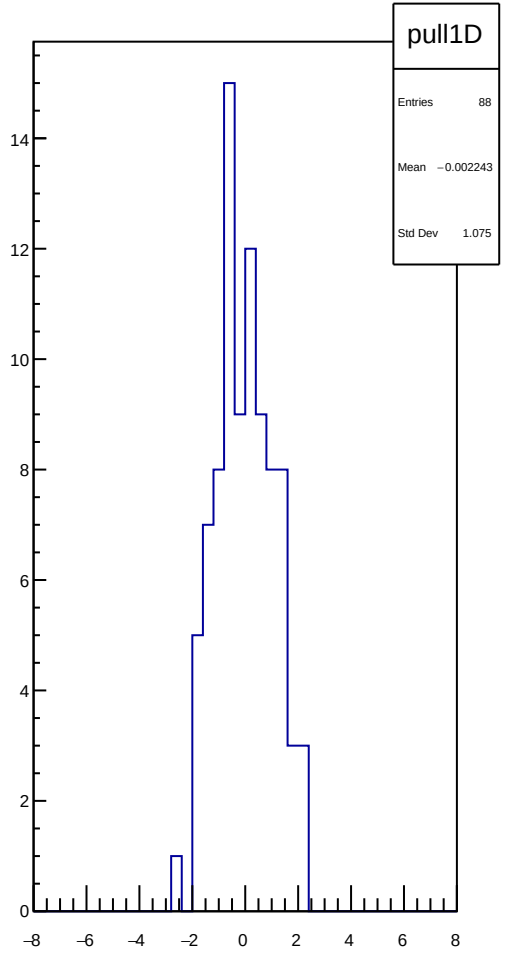

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 2877 / 87
p0 1028 ± 0.7947
1200
1150
1100
1050
1000
950
900

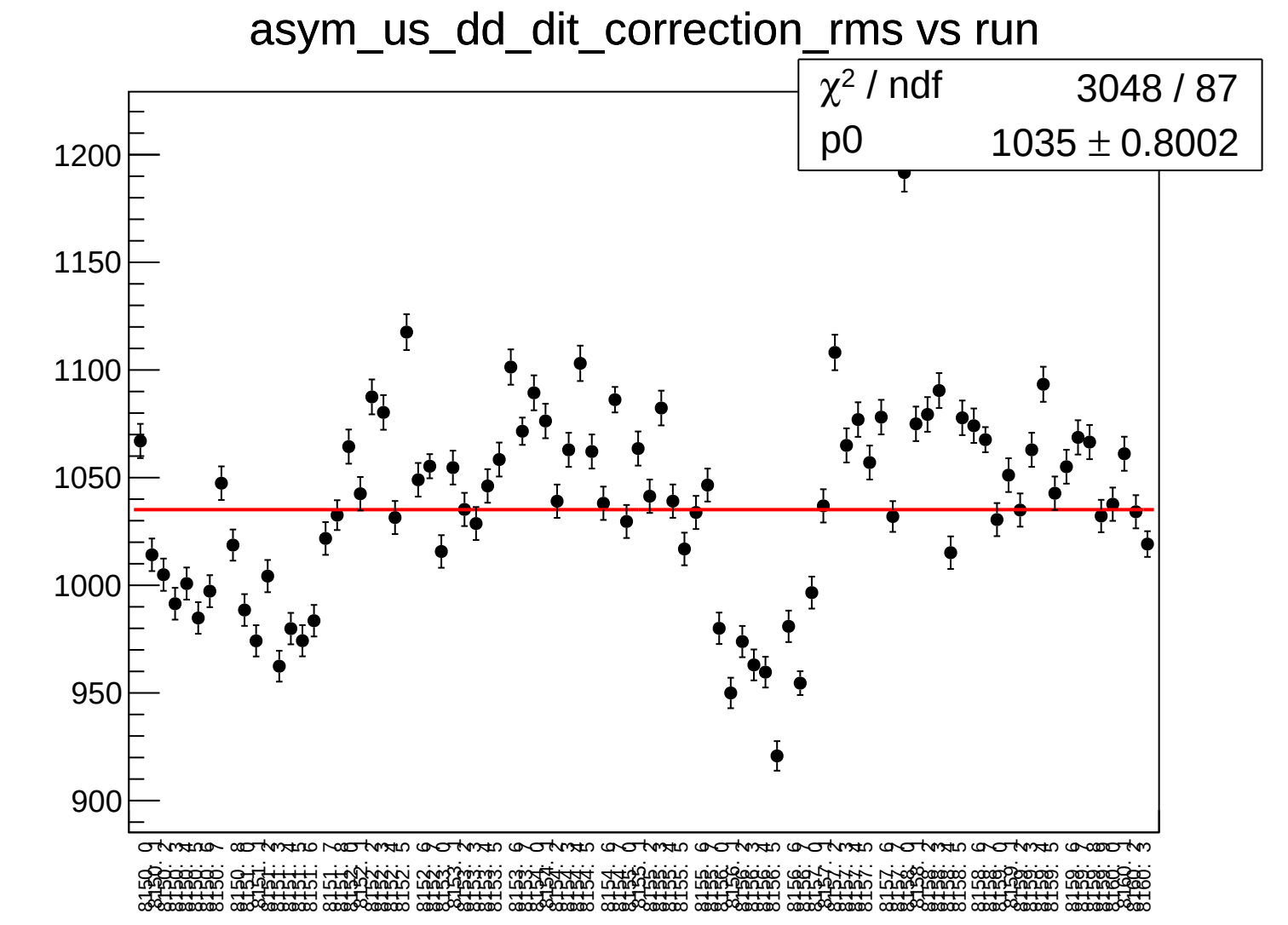

dit_asym_us_dd_mean vs run
χ² / ndf 58.49 / 87
p0 1427 ± 830.8
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 421
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

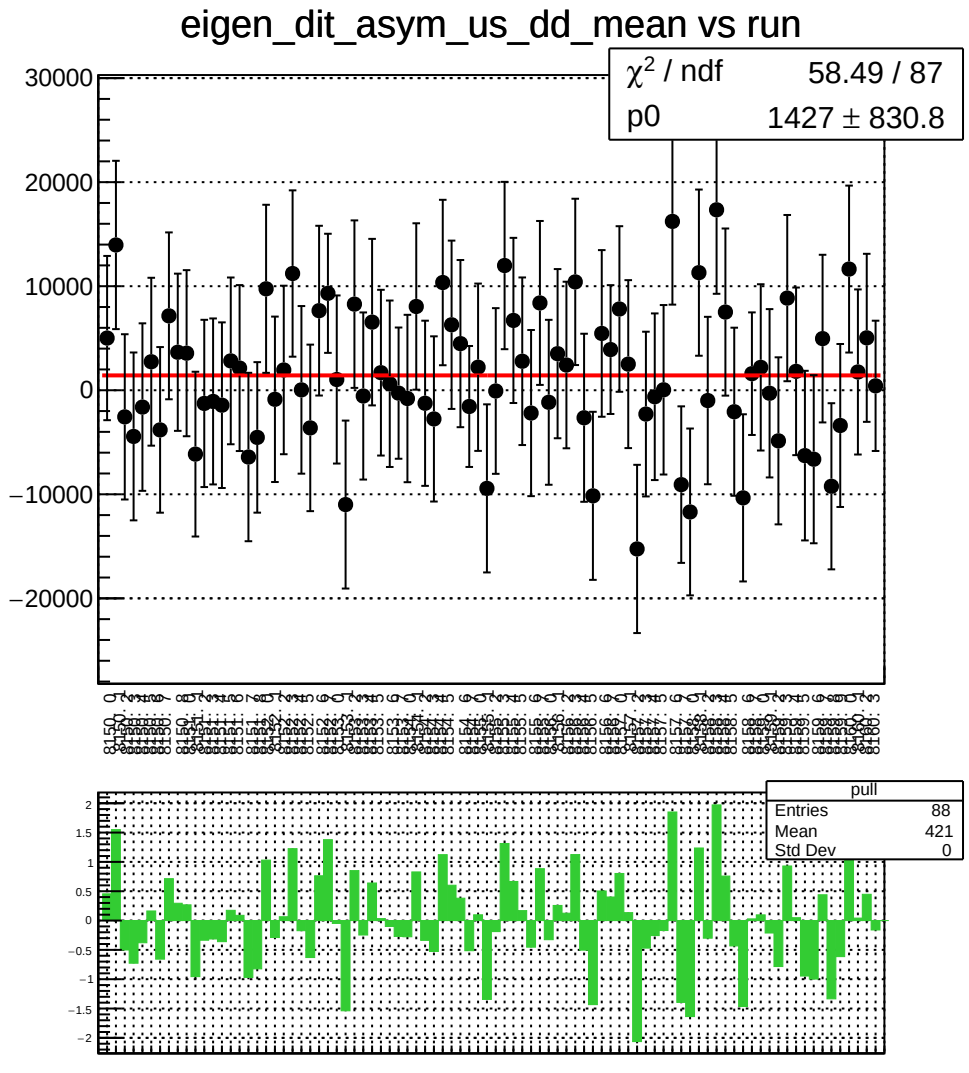

pull1D
Entries 88
Mean −0.002668
Std Dev 0.8153
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

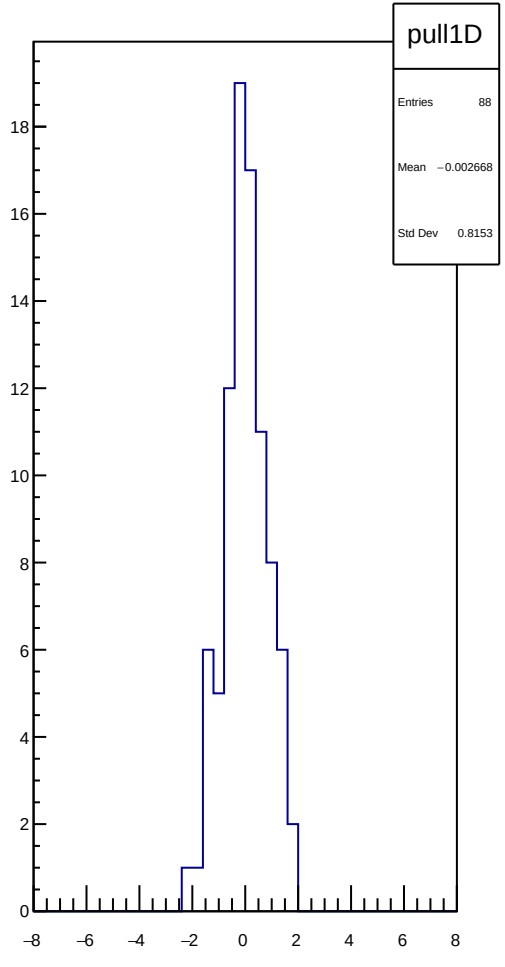

dit_asym_us_dd_rms vs run
χ² / ndf 86.57 / 87
p0 760.6 ± 0.5875
780
775
770
765
760
755
750
745
740

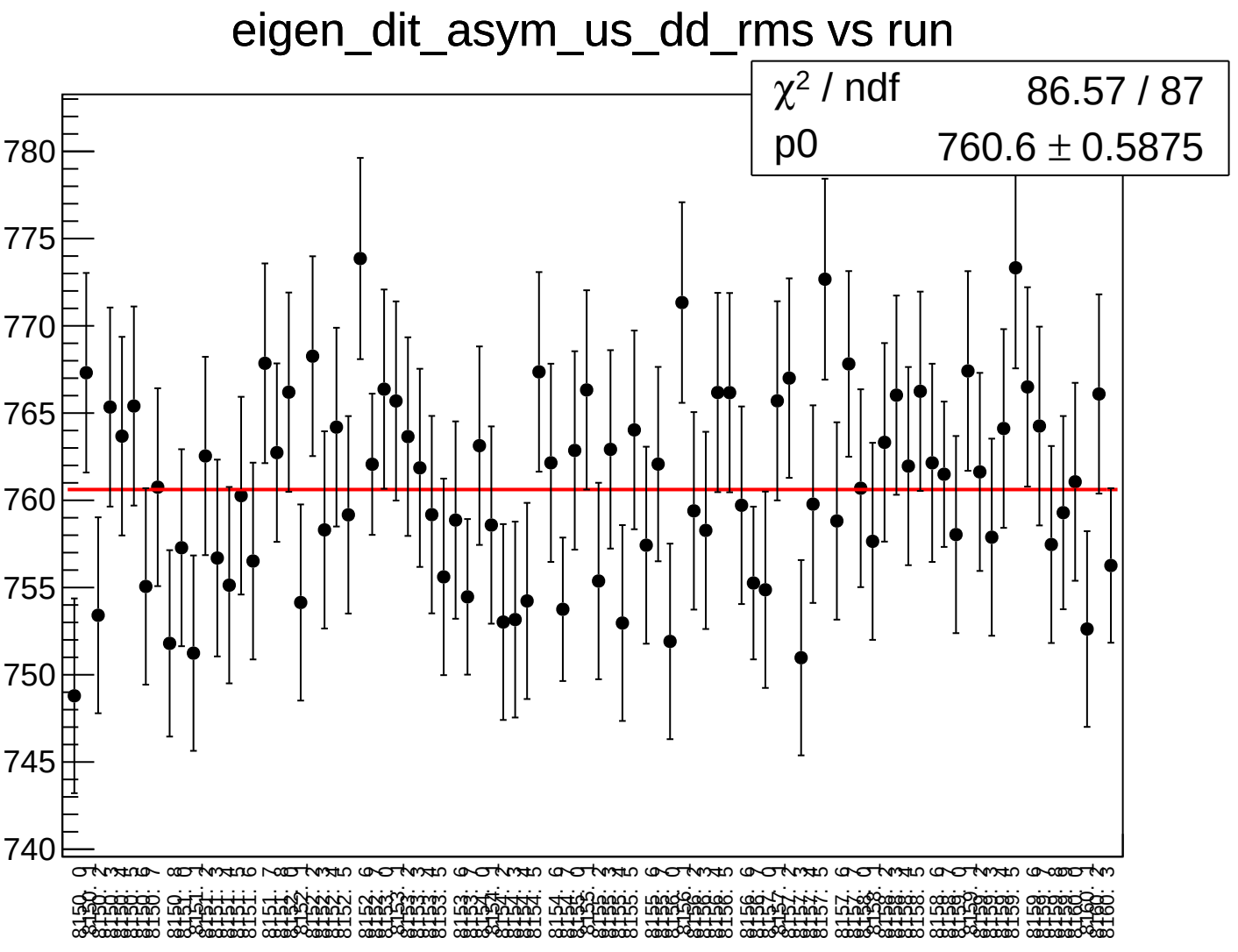

asym_us_dd_dit_correction_mean vs run
χ² / ndf 101.6 / 87
p0 −1349 ± 1132
pull
Entries 88
Mean −1256
Std Dev 0

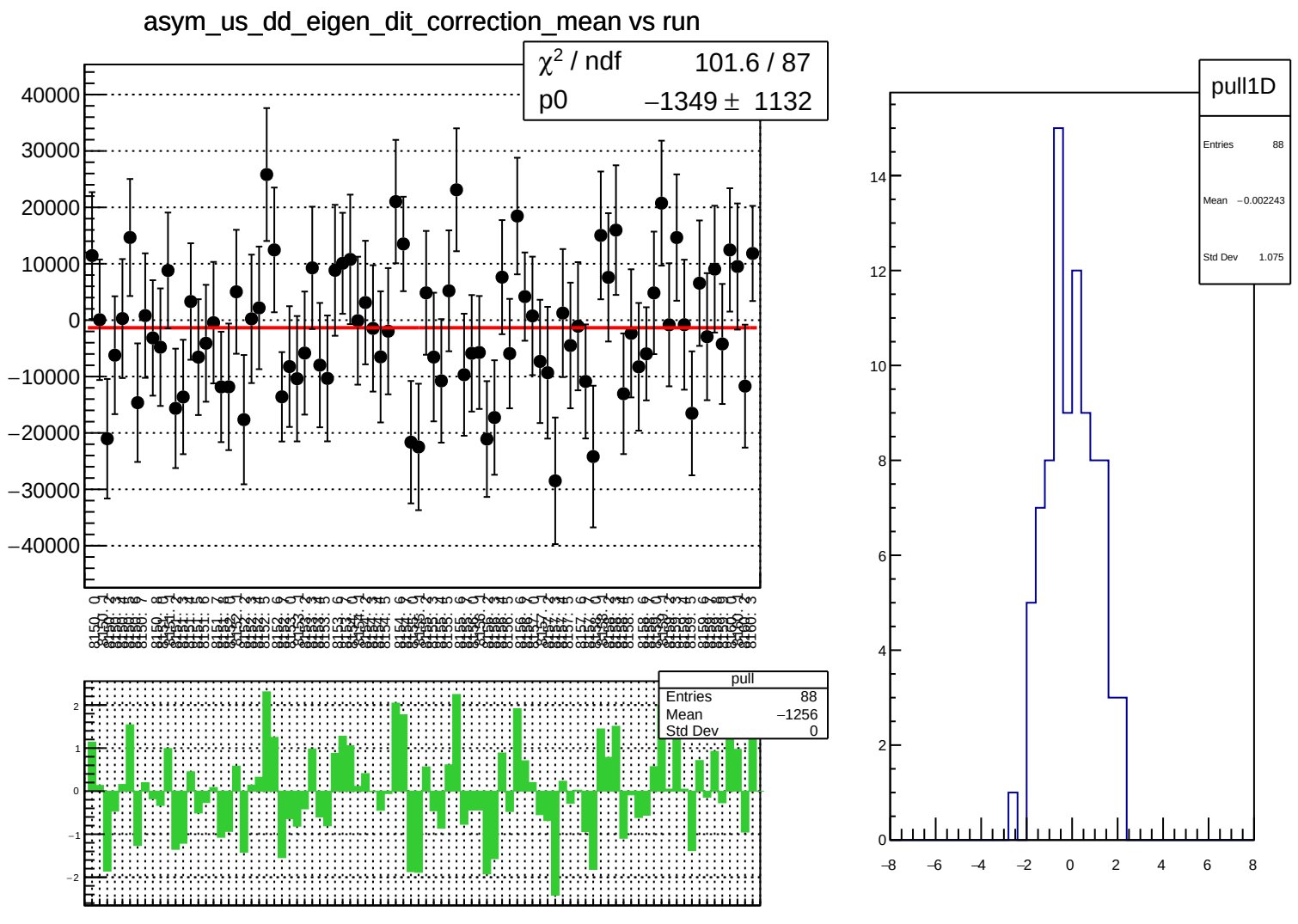

pull1D
Entries 88
Mean −0.002243
Std Dev 1.075

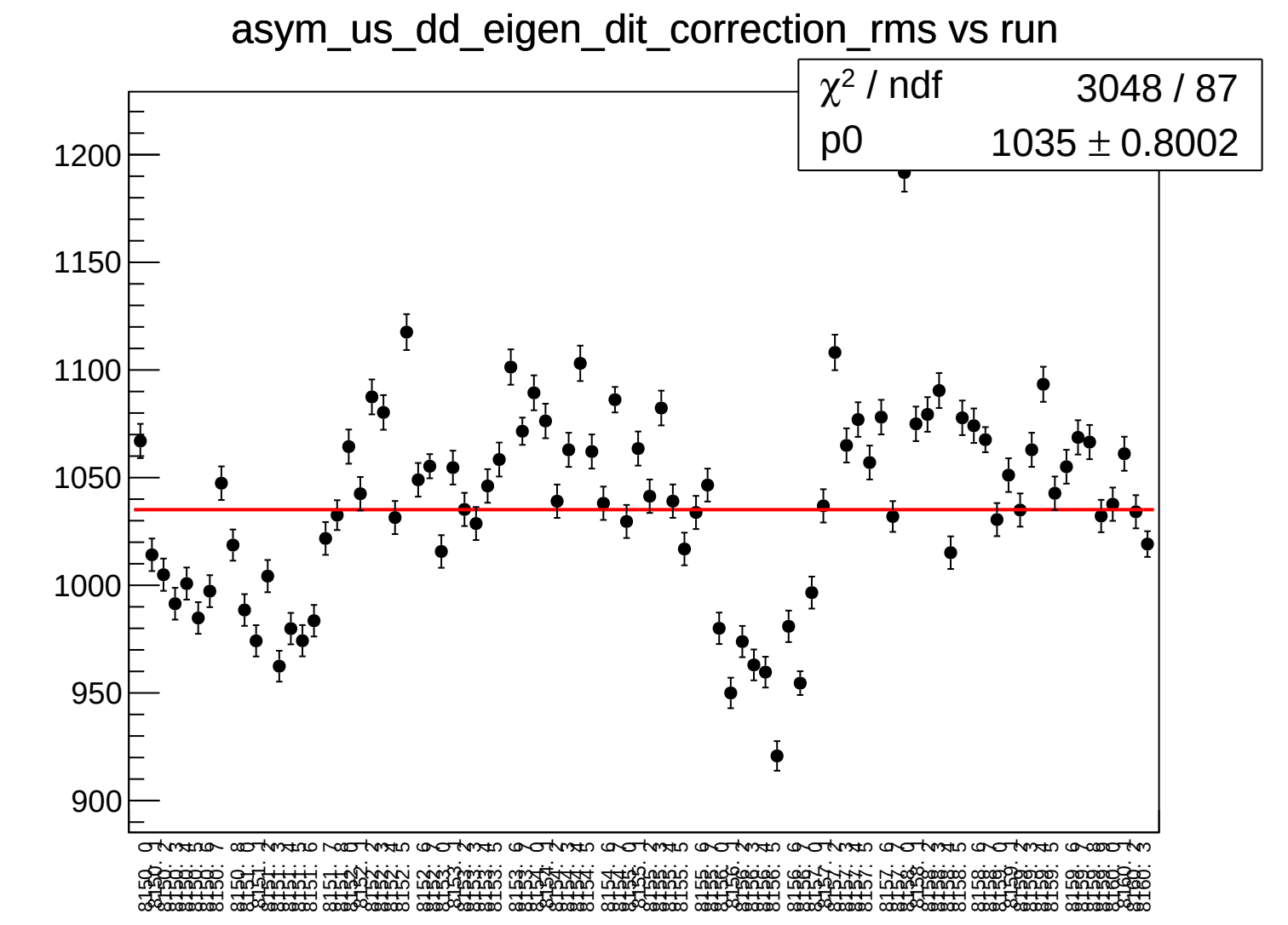

asym_us_dd_dit_correction_rms vs run
χ² / ndf 3048 / 87
p0 1035 ± 0.8002
1200
1150
1100
1050
1000
950
900

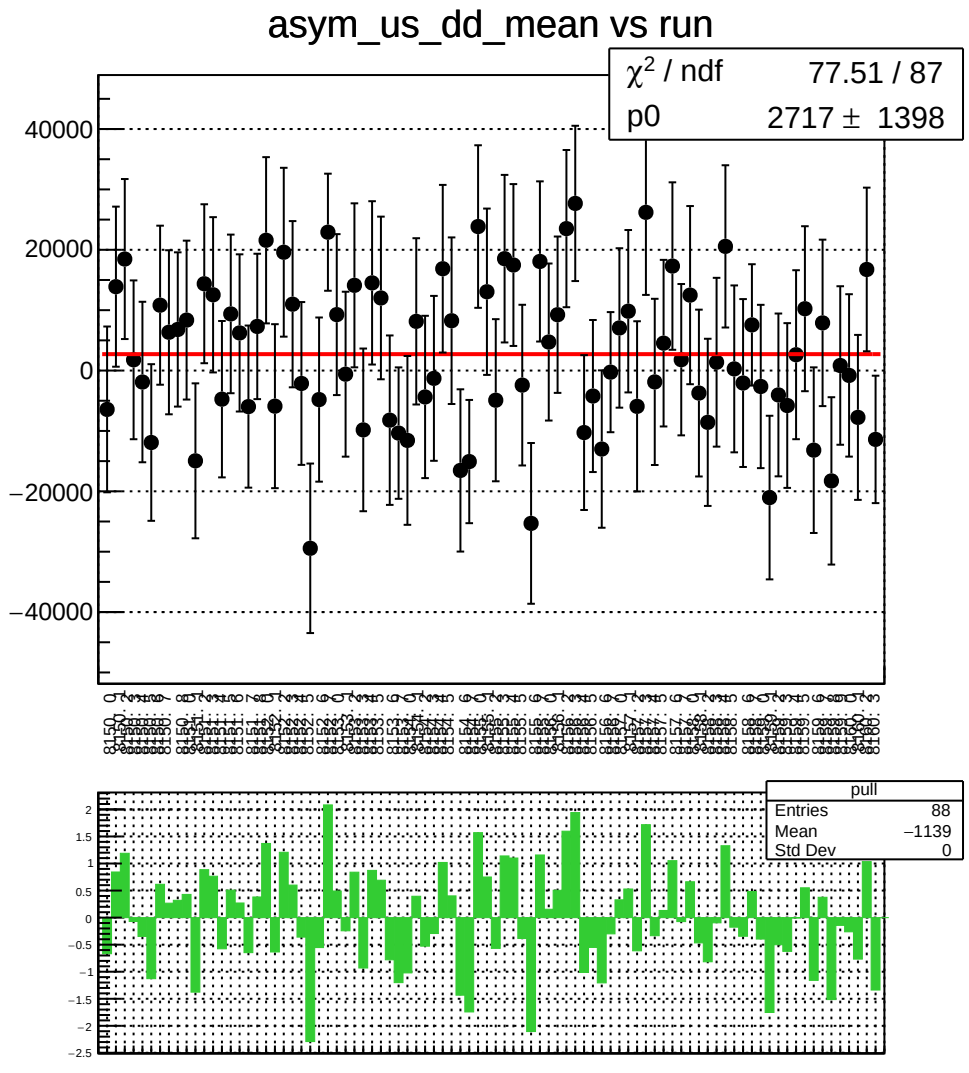

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 58.49 / 87
p0 1427 ± 830.8
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 421
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

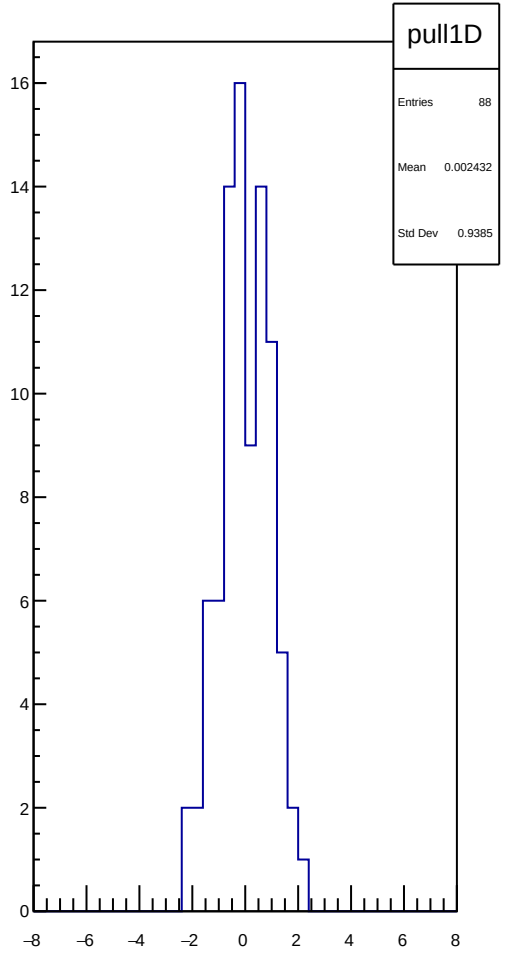

pull1D
Entries 88
Mean −0.002668
Std Dev 0.8153
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

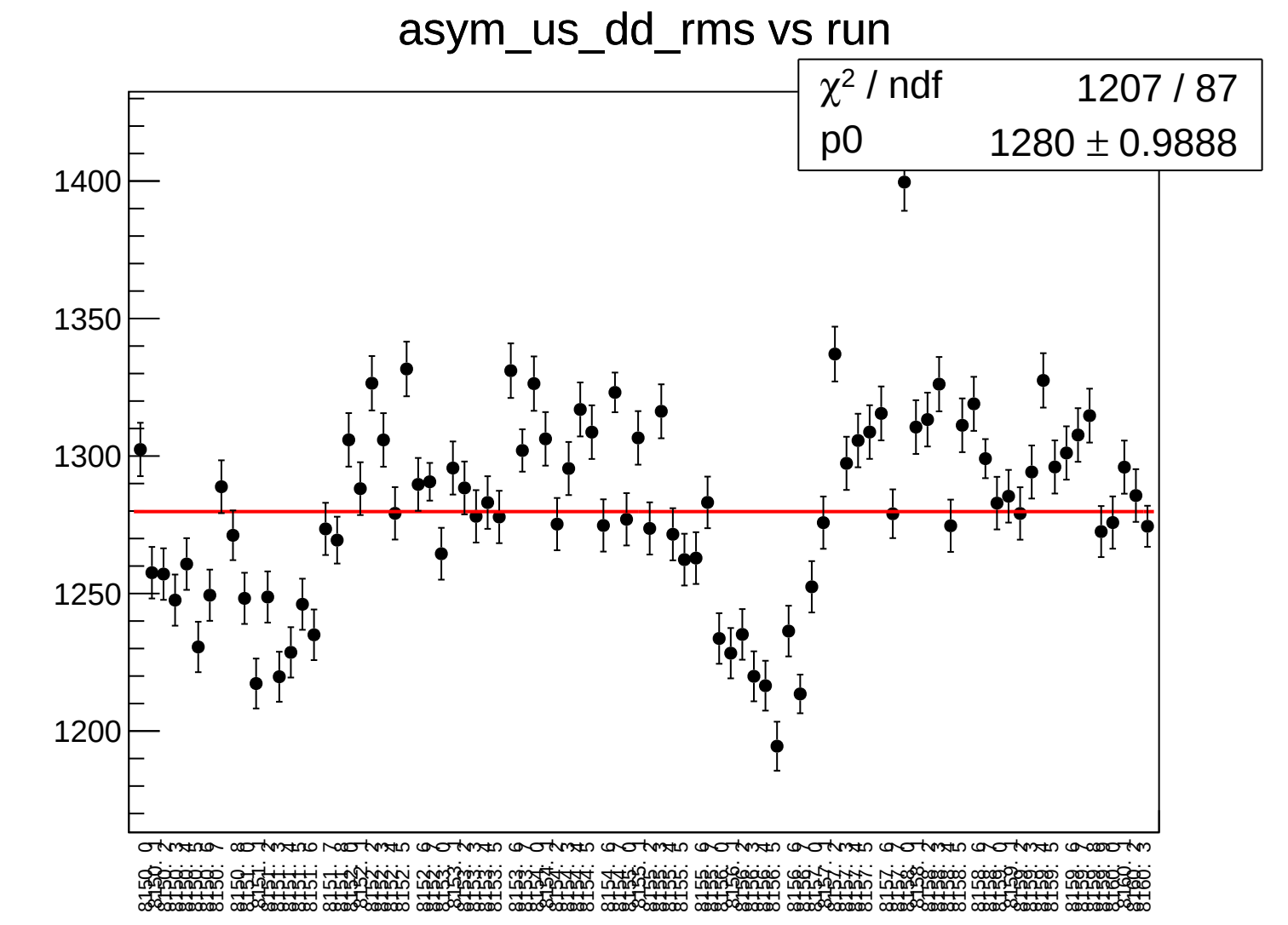

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 86.57 / 87
p0 760.6 ± 0.5875
780
775
770
765
760
755
750
745
740

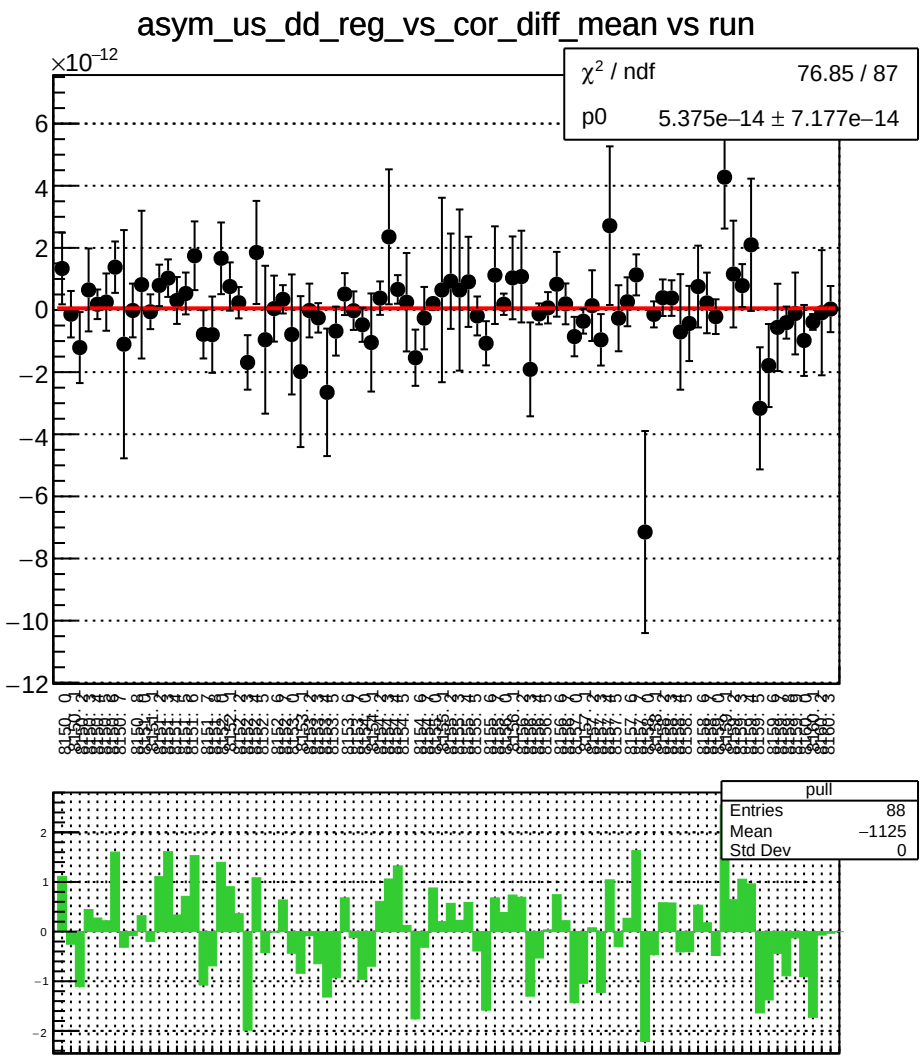

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.6 / 87
p0 −1349 ± 1132
pull
Entries 88
Mean −1256
Std Dev 0
pull1D
Entries 88
Mean −0.002243
Std Dev 1.075

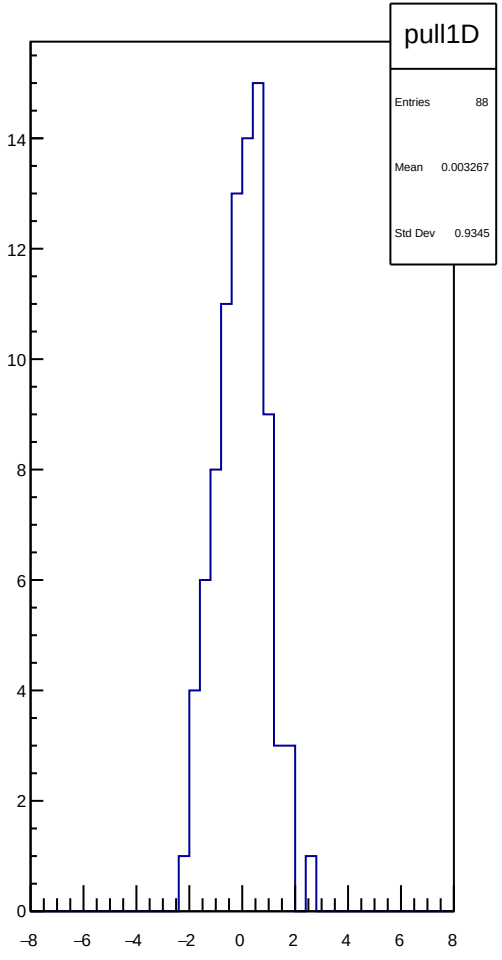

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 3048 / 87
p0 1035 ± 0.8002
1200
1150
1100
1050
1000
950
900

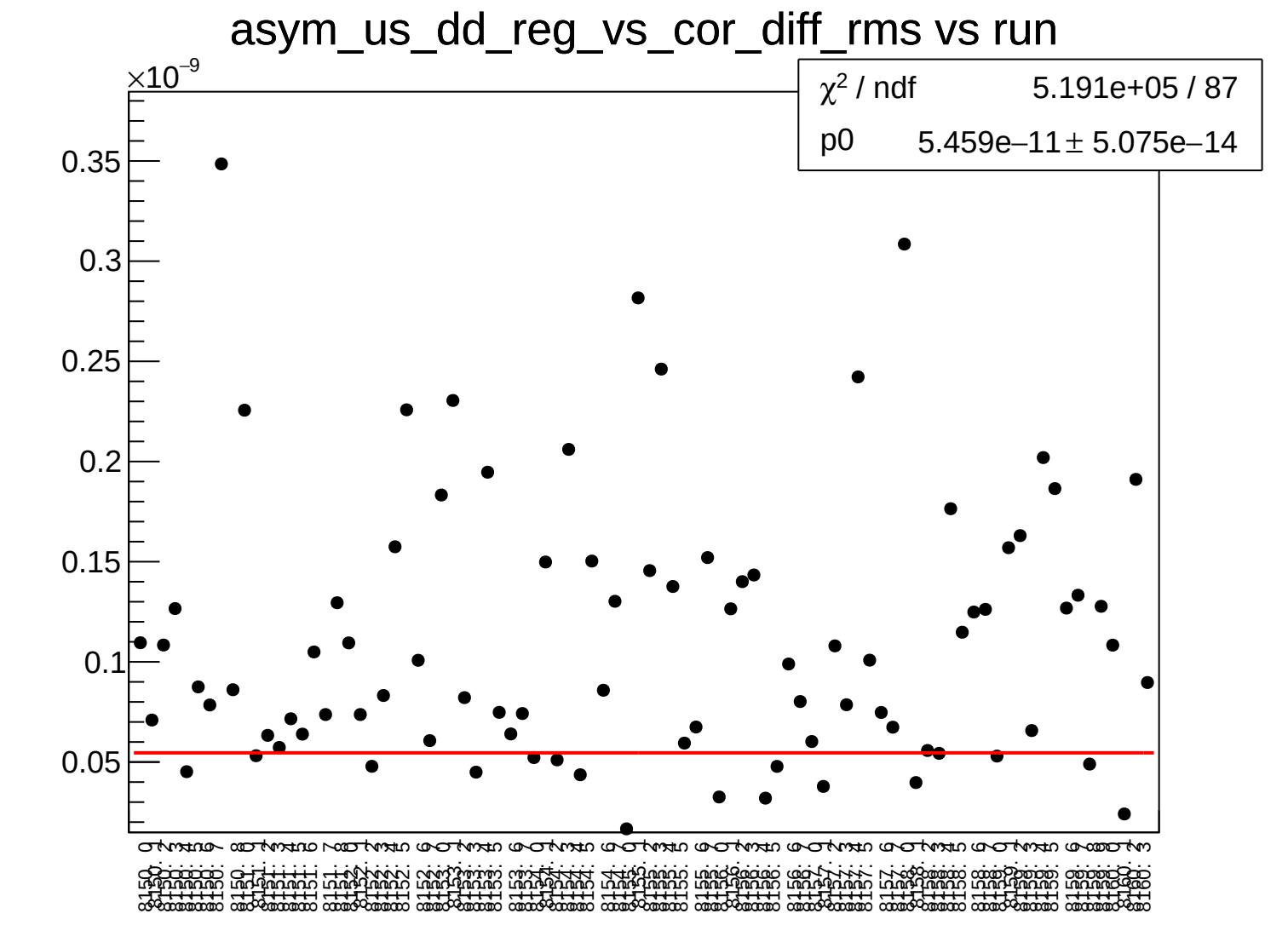

asym_us_dd_mean vs run
χ² / ndf 77.51 / 87
p0 2717 ± 1398
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −1139
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

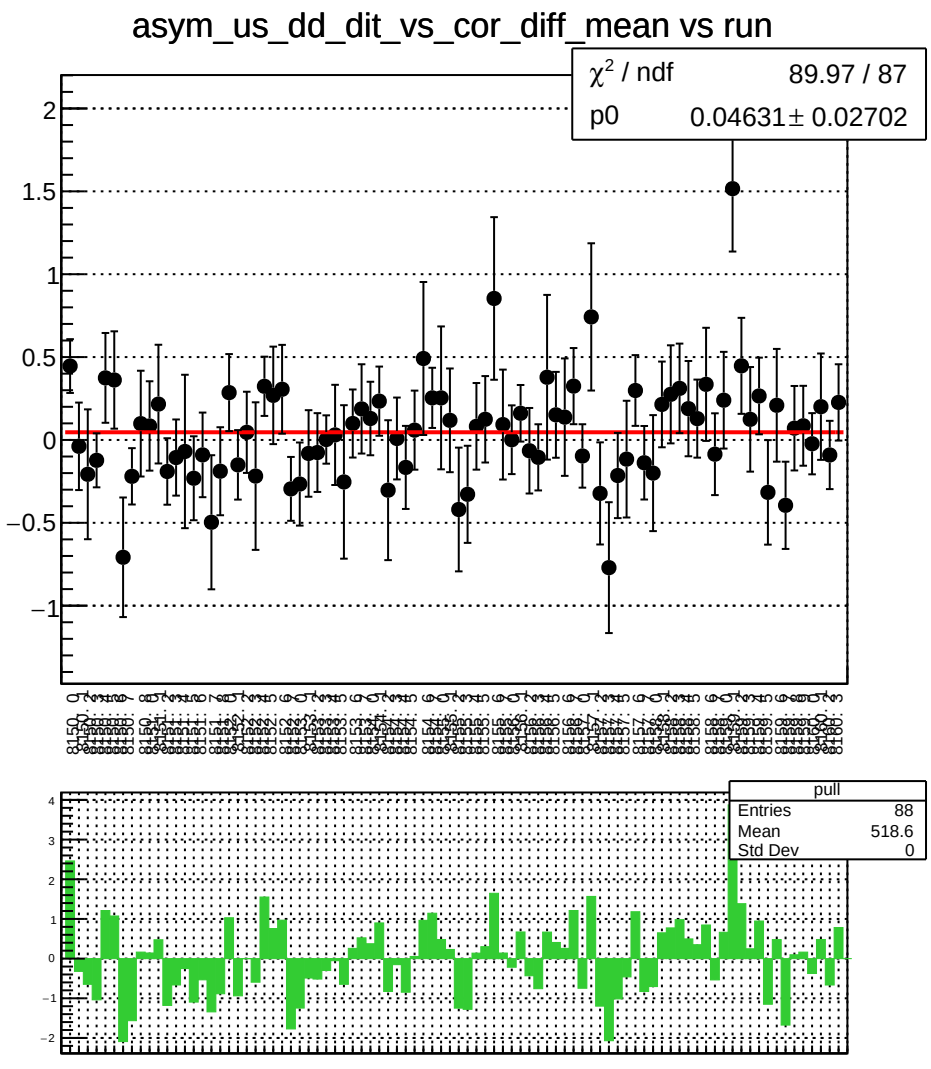

pull1D
Entries 88
Mean 0.002432
Std Dev 0.9385
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

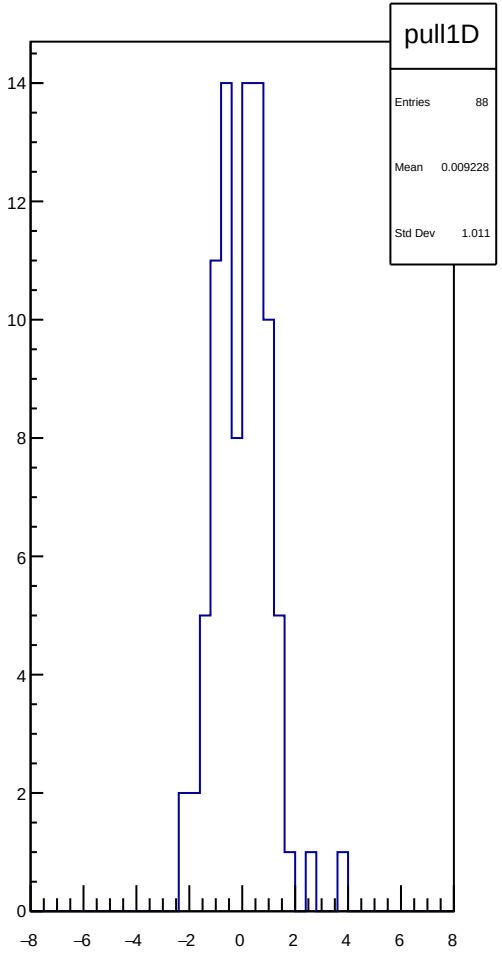

asym_us_dd_rms vs run
χ² / ndf 1207 / 87
p0 1280 ± 0.9888
1400
1350
1300
1250
1200

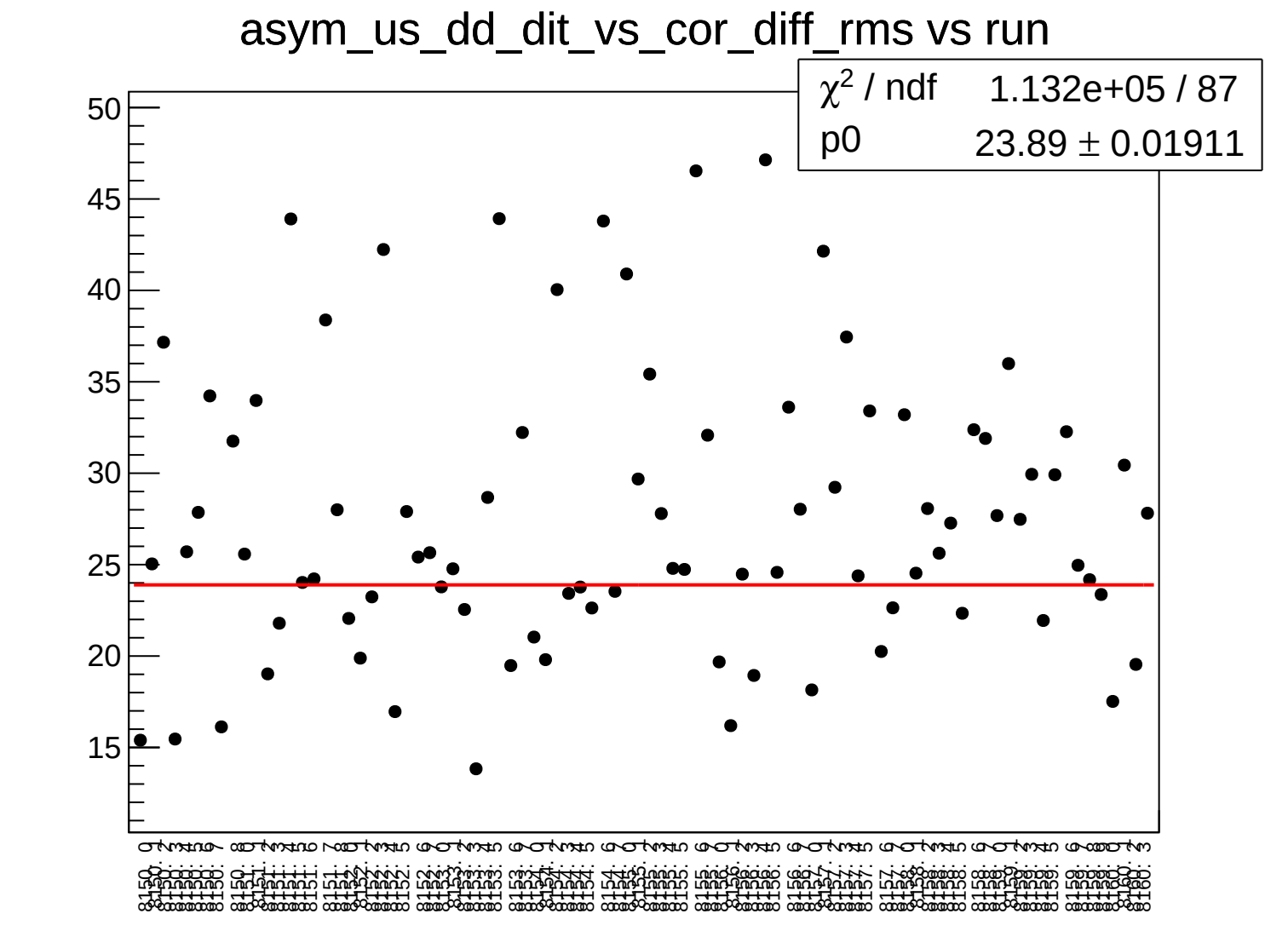

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.85 / 87
p0 5.375e−14 ± 7.177e−14
pull
Entries 88
Mean −1125
Std Dev 0

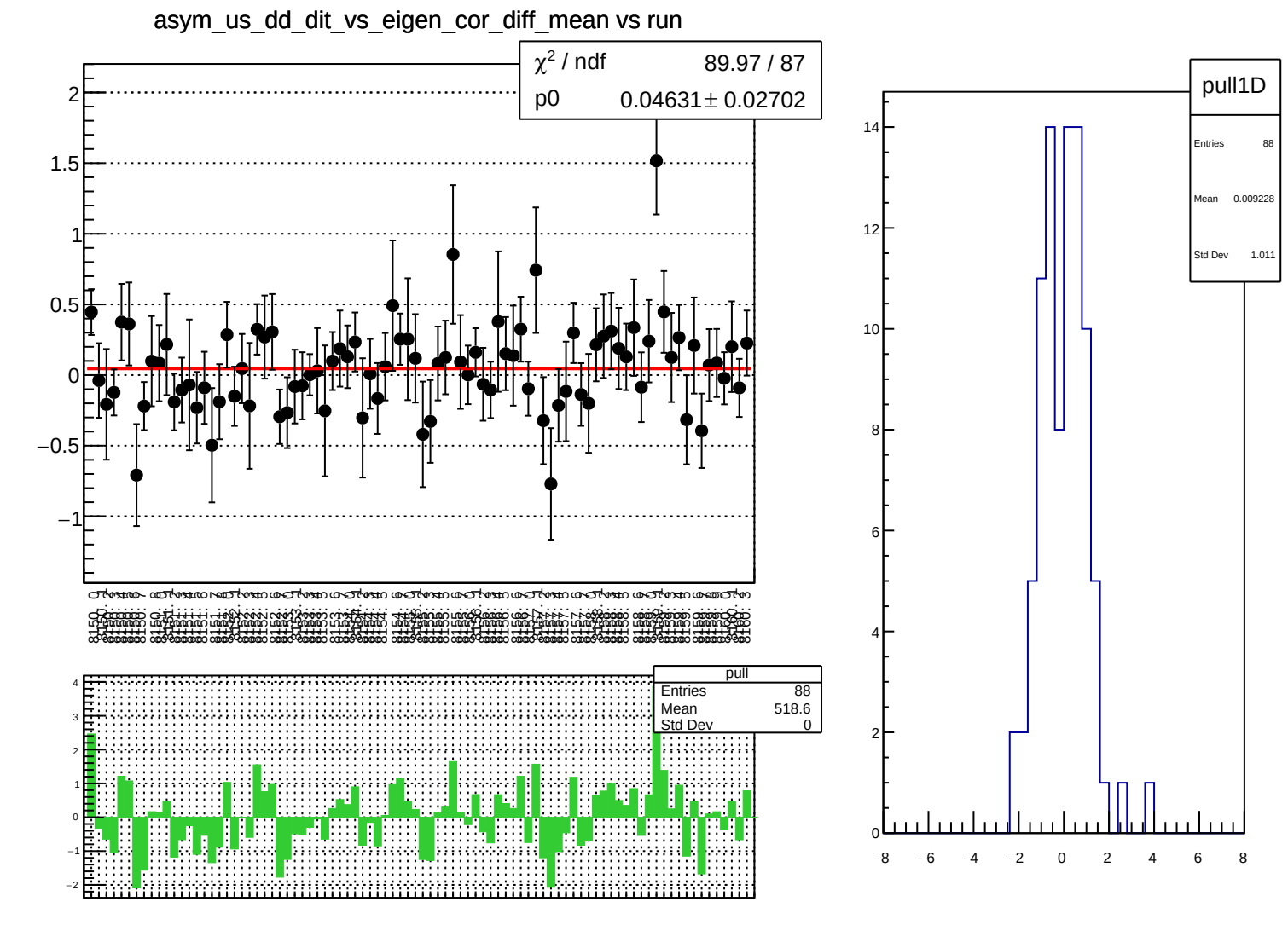

pull1D
Entries 88
Mean 0.003267
Std Dev 0.9345

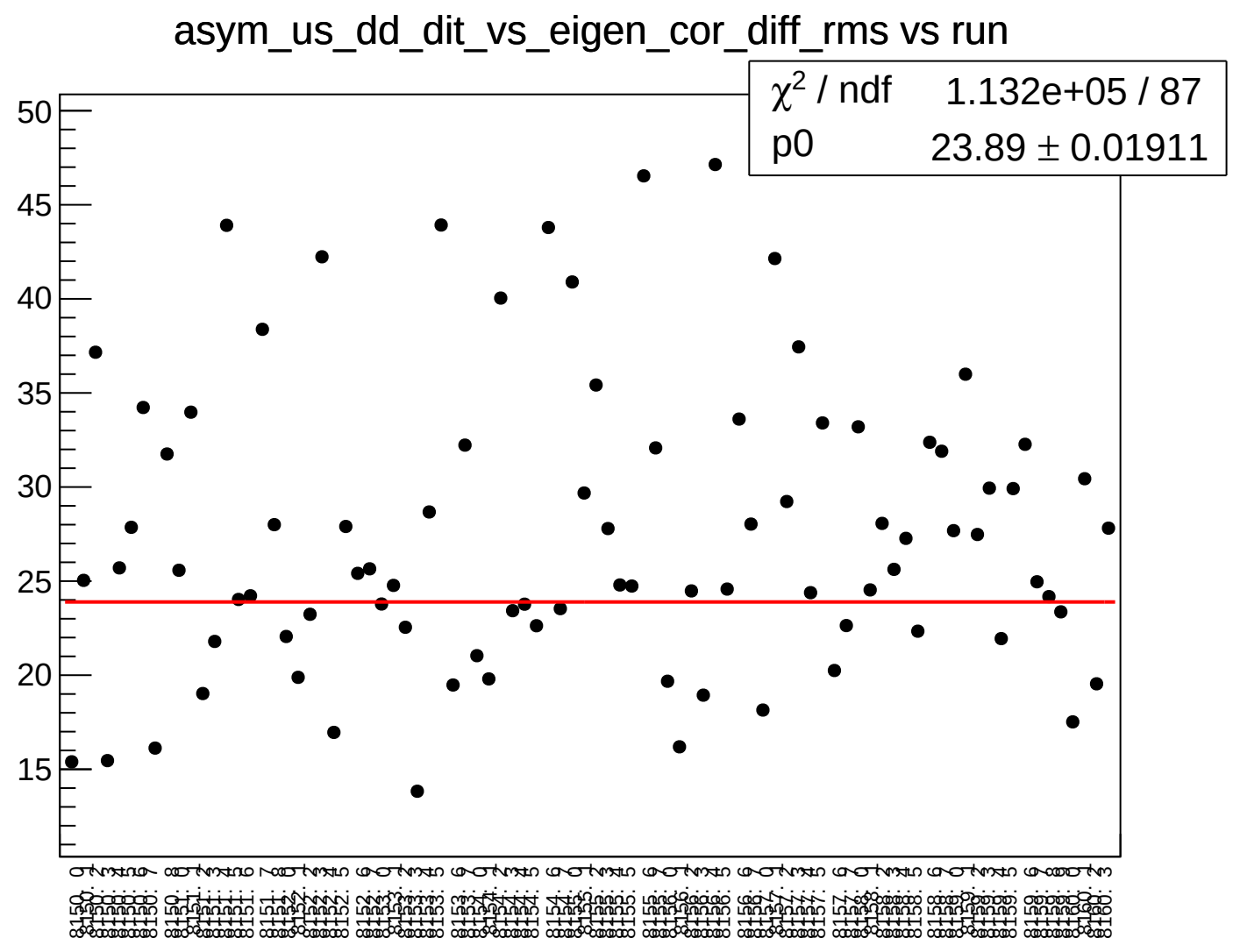

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.191e+05 / 87
p0 5.459e−11 ± 5.075e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

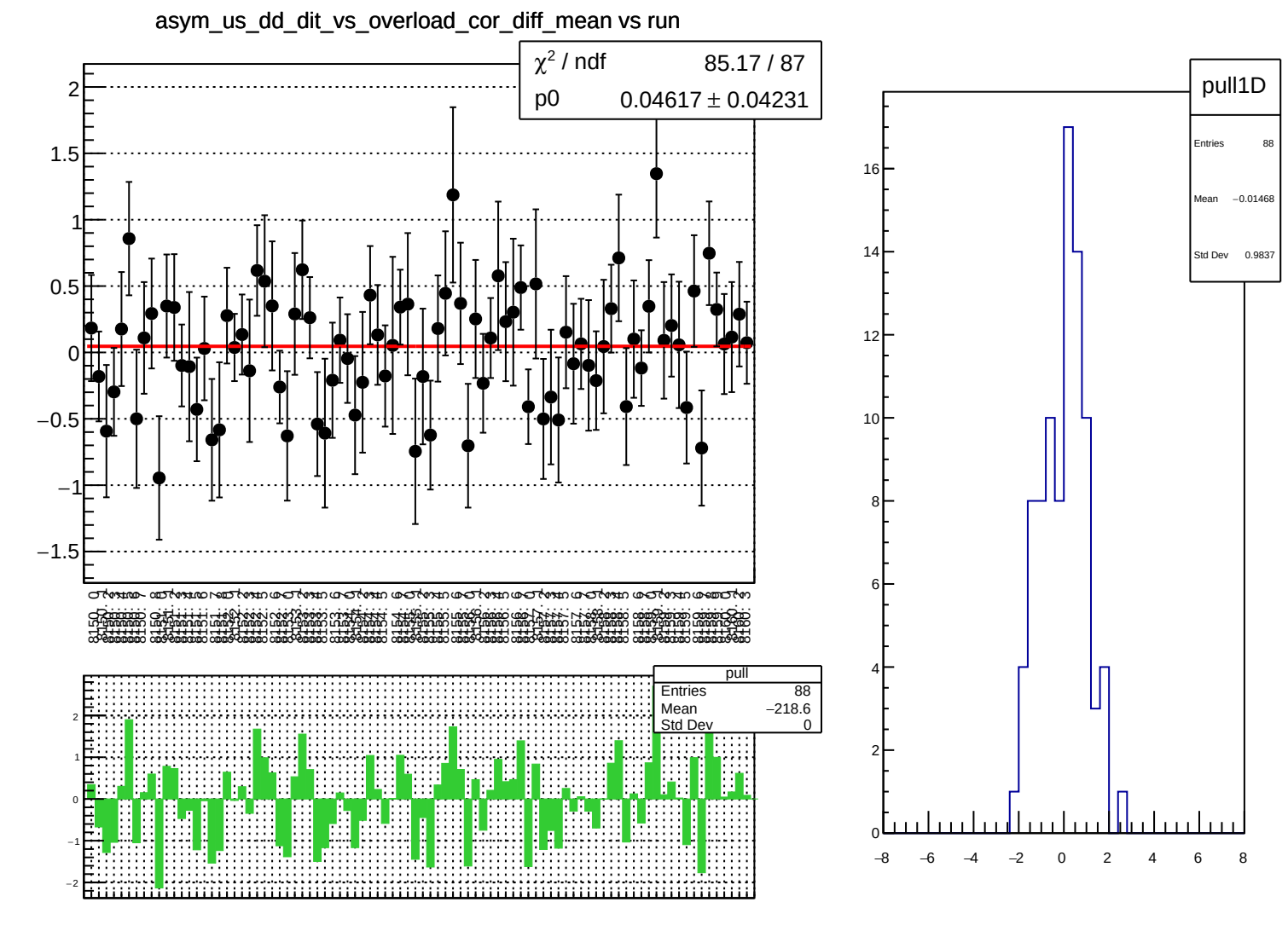

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.97 / 87
p0 0.04631 ± 0.02702
pull
Entries 88
Mean 518.6
Std Dev 0

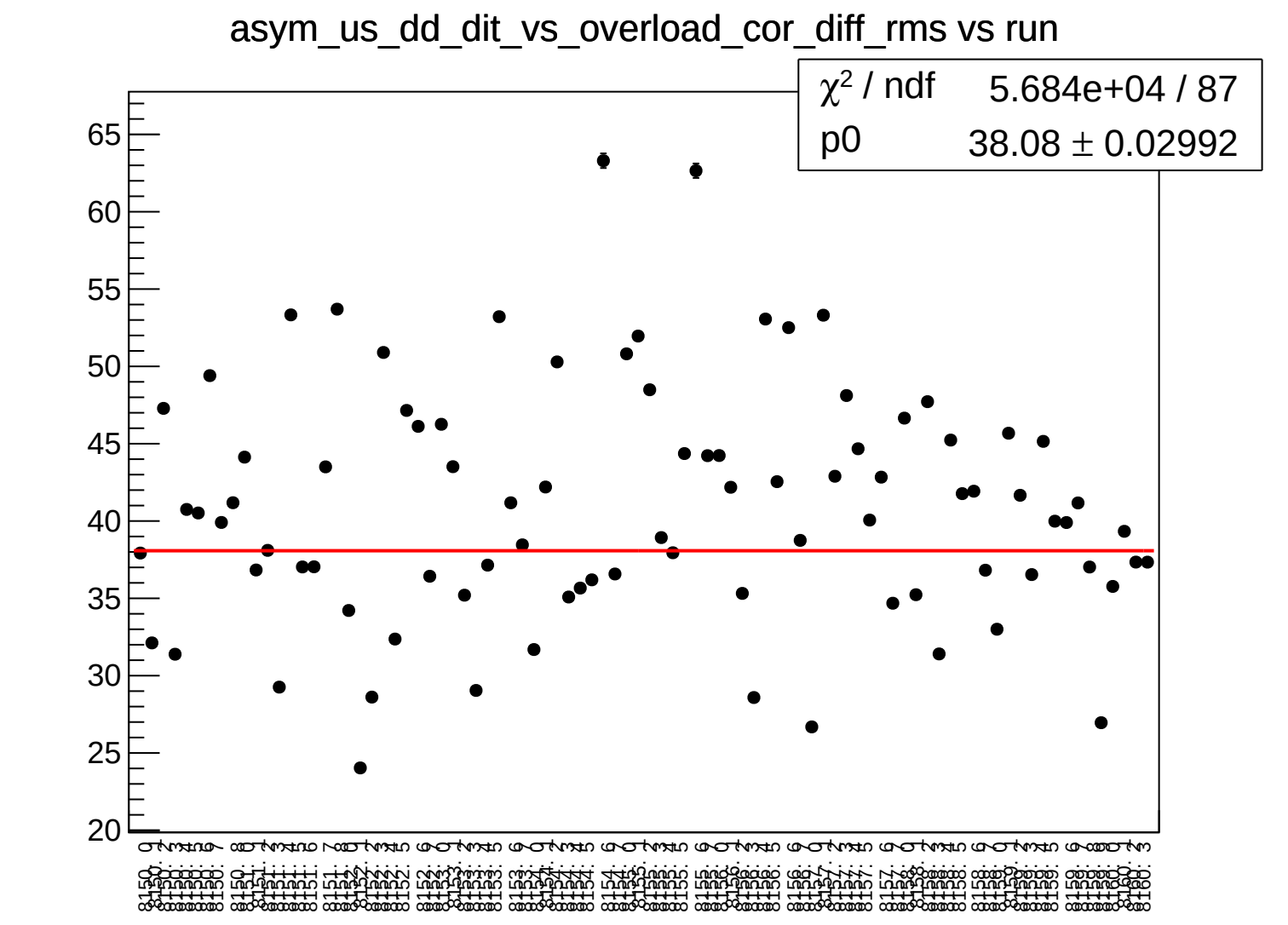

pull1D
Entries 88
Mean 0.009228
Std Dev 1.011

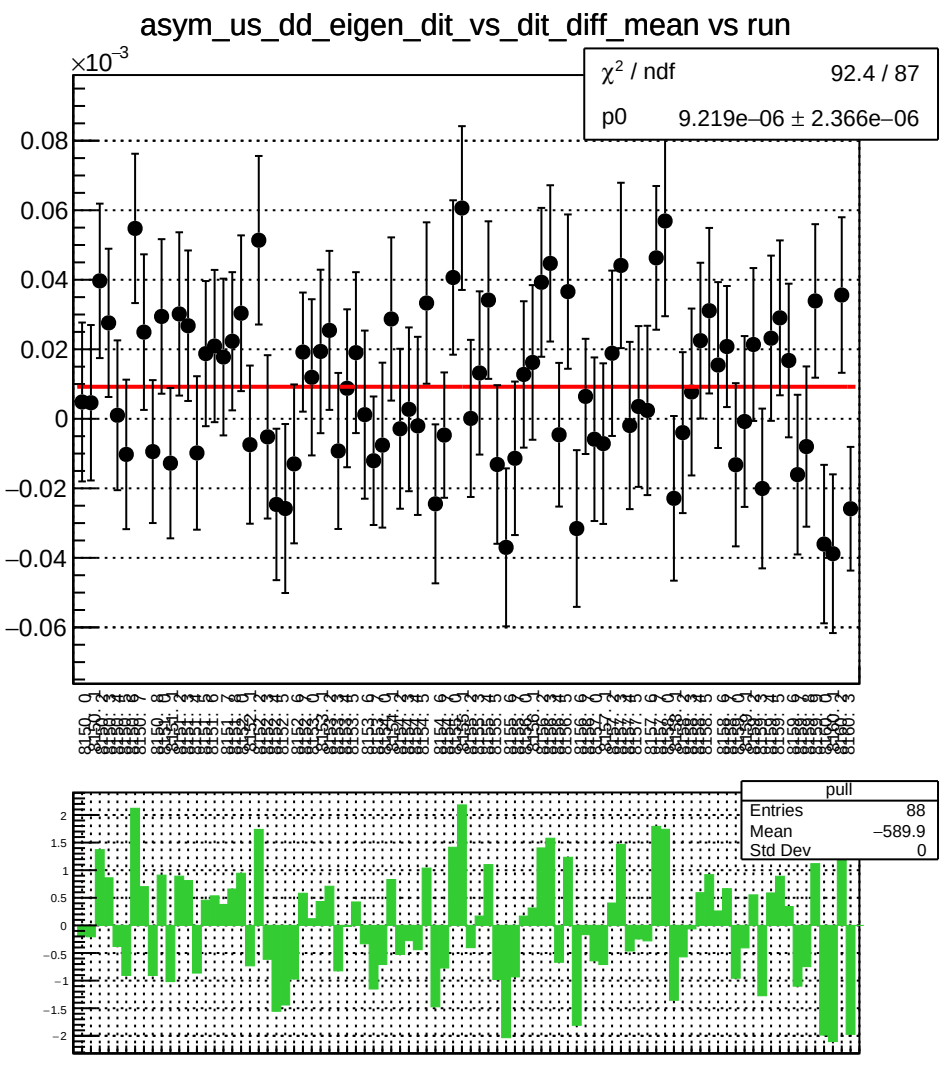

asym_us_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.132e+05 / 87
p0 23.89 ± 0.01911
50
45
40
35
30
25
20
15

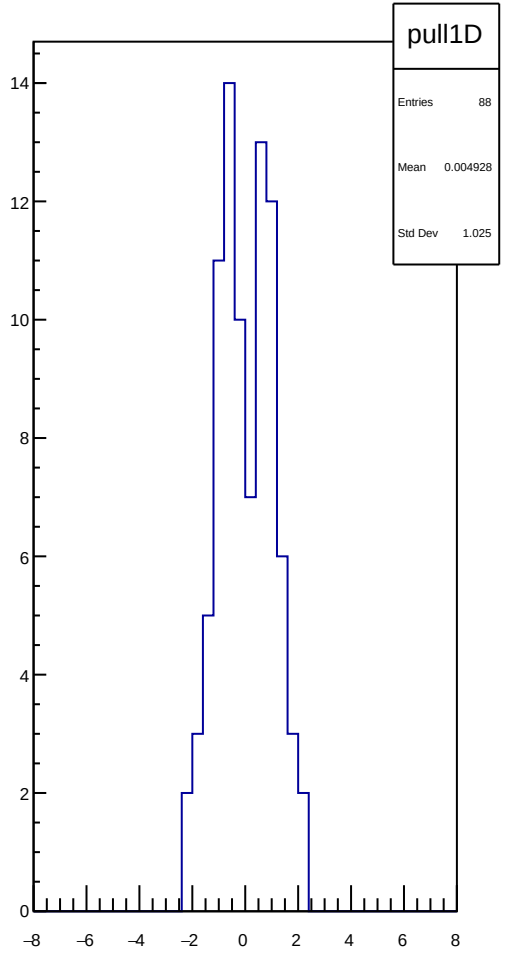

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.97 / 87
p0 0.04631 ± 0.02702
pull
Entries 88
Mean 518.6
Std Dev 0
pull1D
Entries 88
Mean 0.009228
Std Dev 1.011

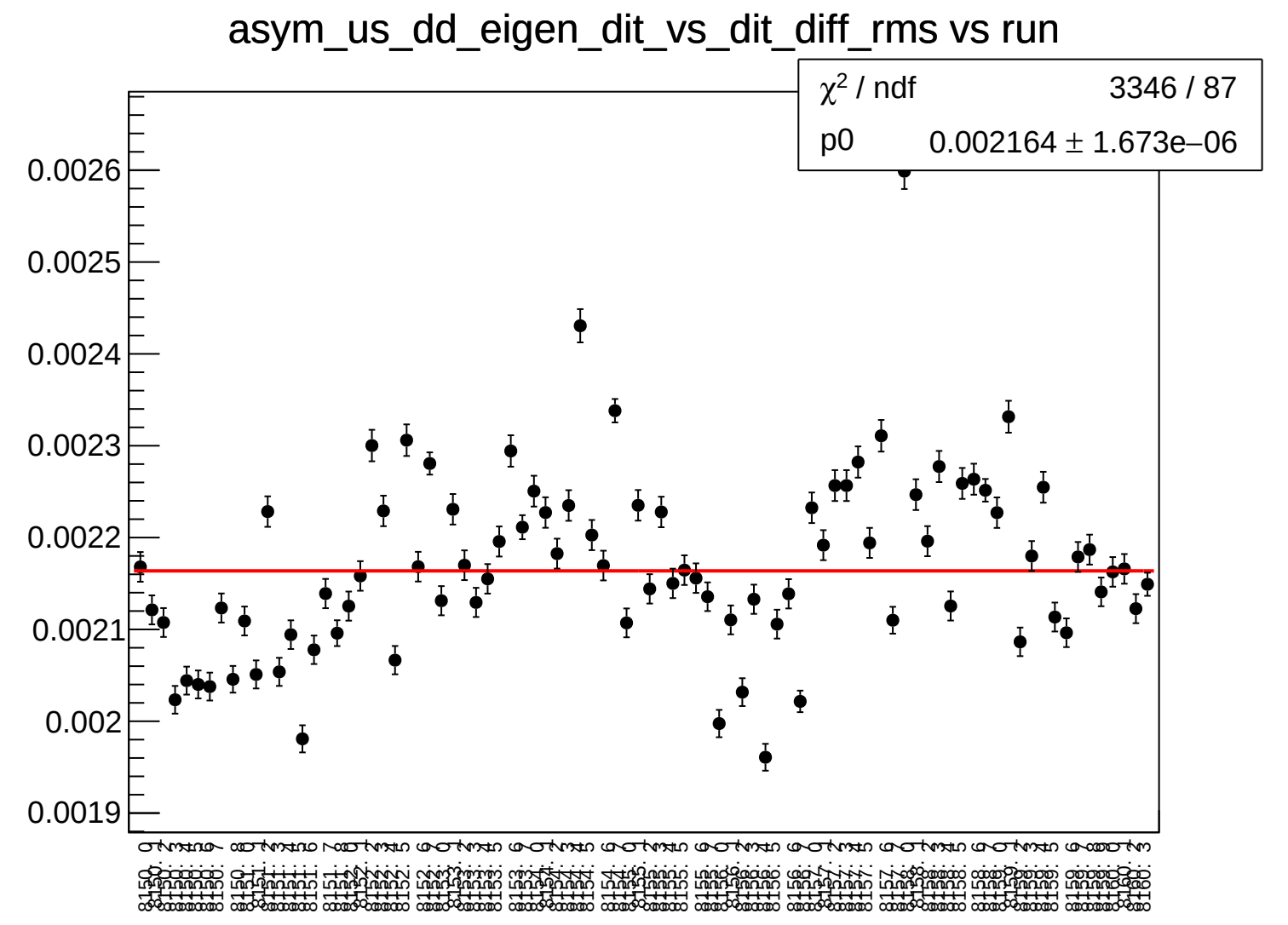

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.132e+05 / 87
p0 23.89 ± 0.01911
50
45
40
35
30
25
20
15

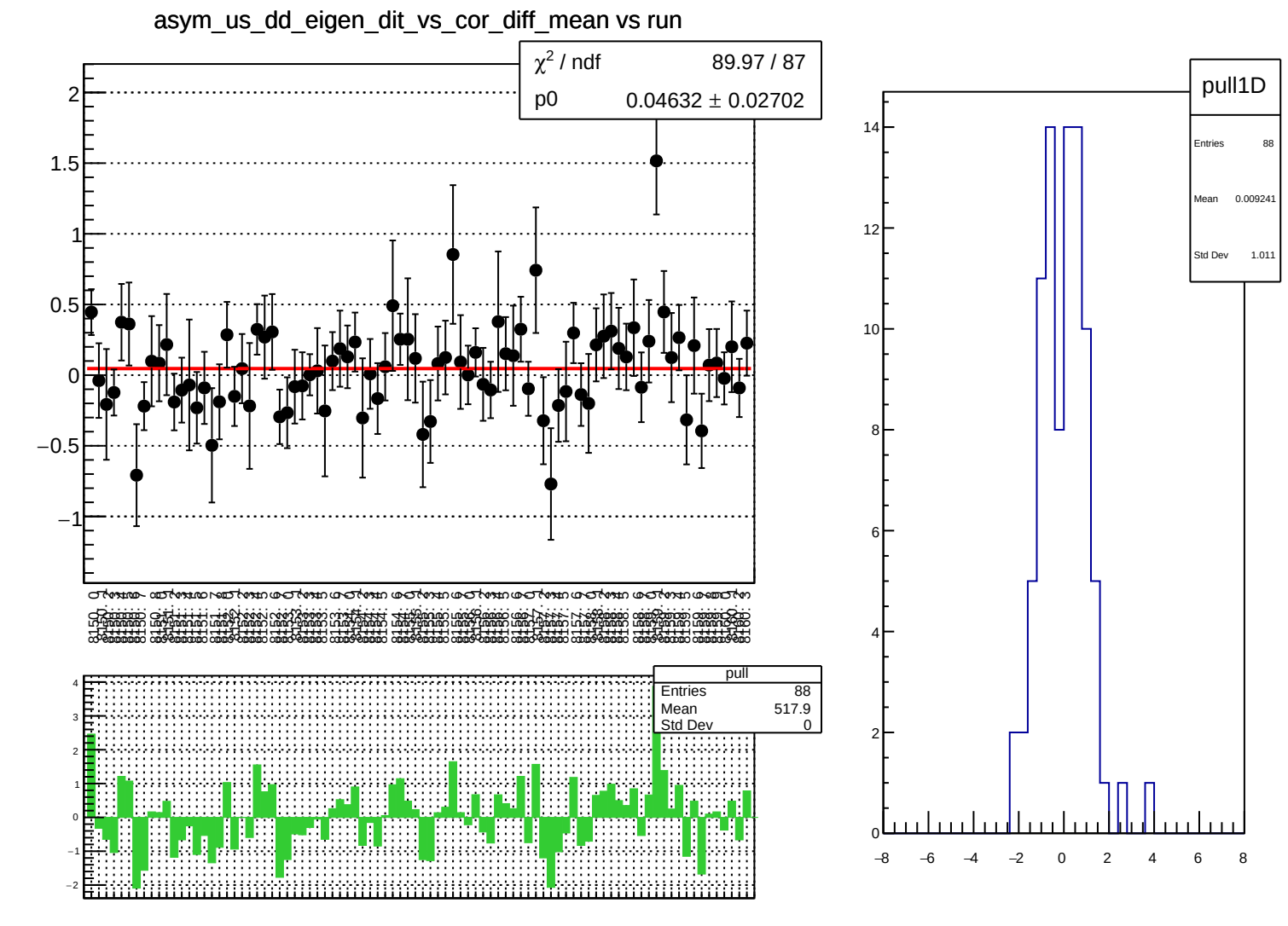

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 85.17 / 87
p0 0.04617 ± 0.04231
pull
Entries 88
Mean −218.6
Std Dev 0
pull1D
Entries 88
Mean −0.01468
Std Dev 0.9837

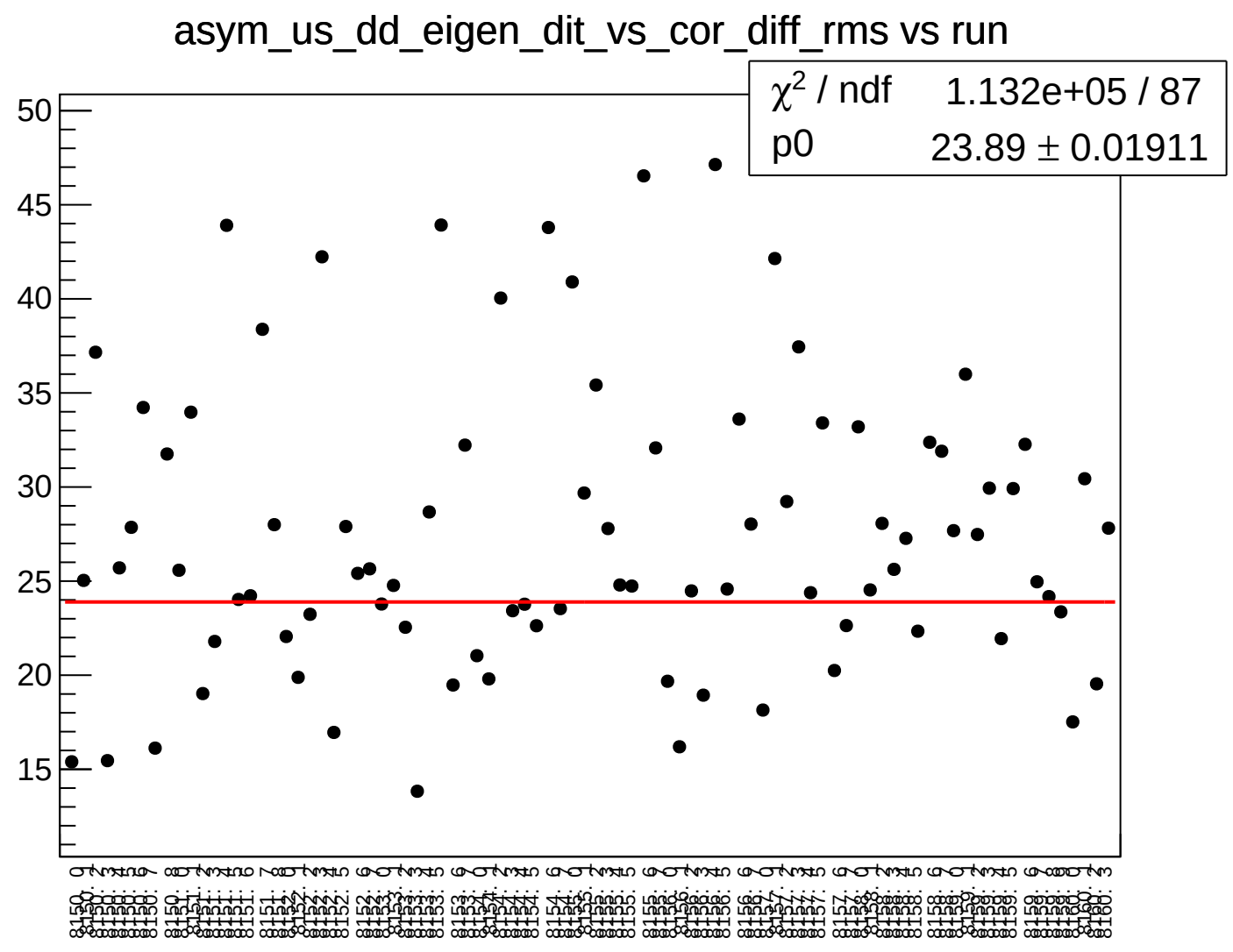

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.684e+04 / 87
p0 38.08 ± 0.02992
65
60
55
50
45
40
35
30
25
20

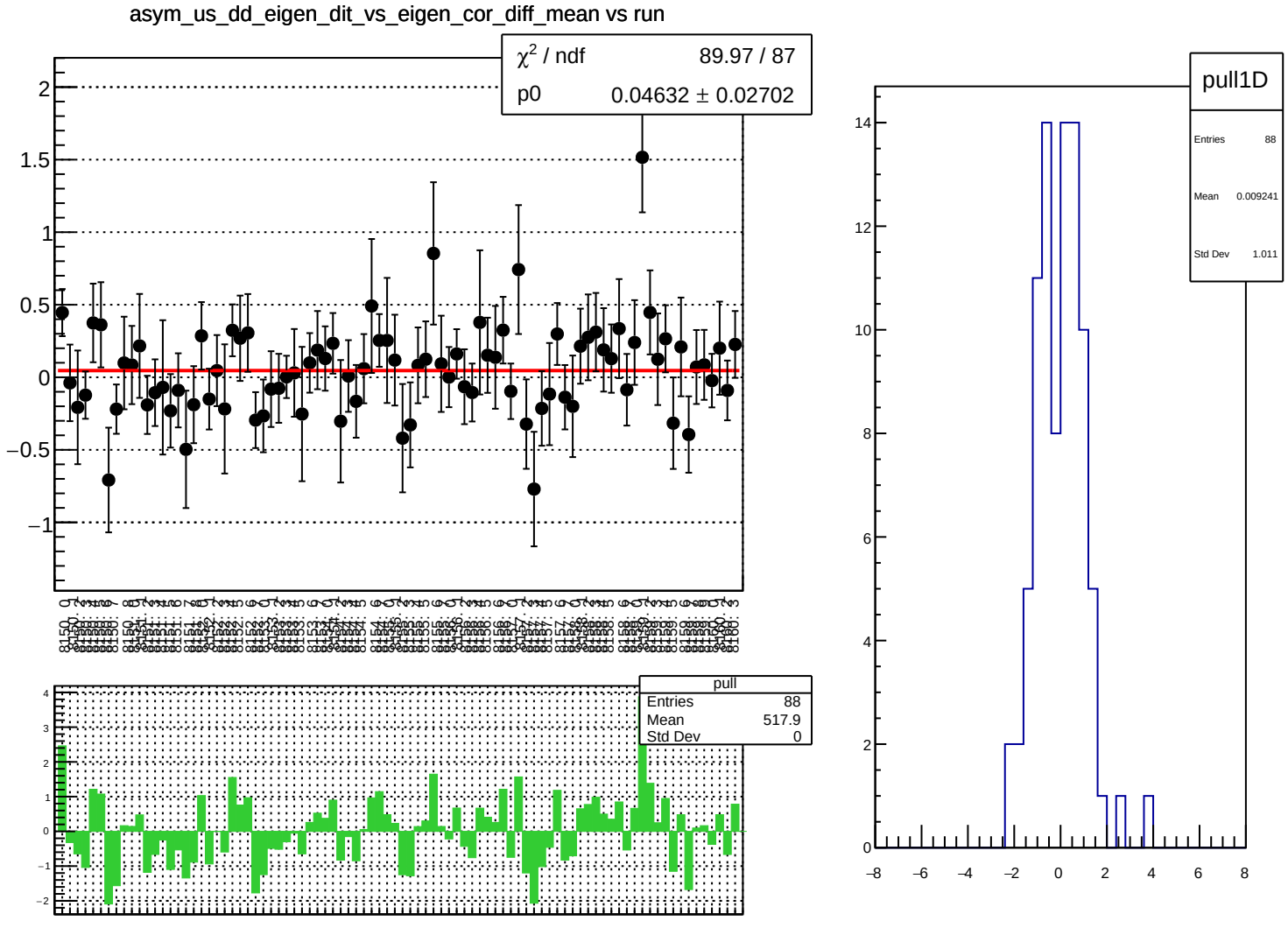

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.4 / 87
p0 9.219e−06 ± 2.366e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean −589.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

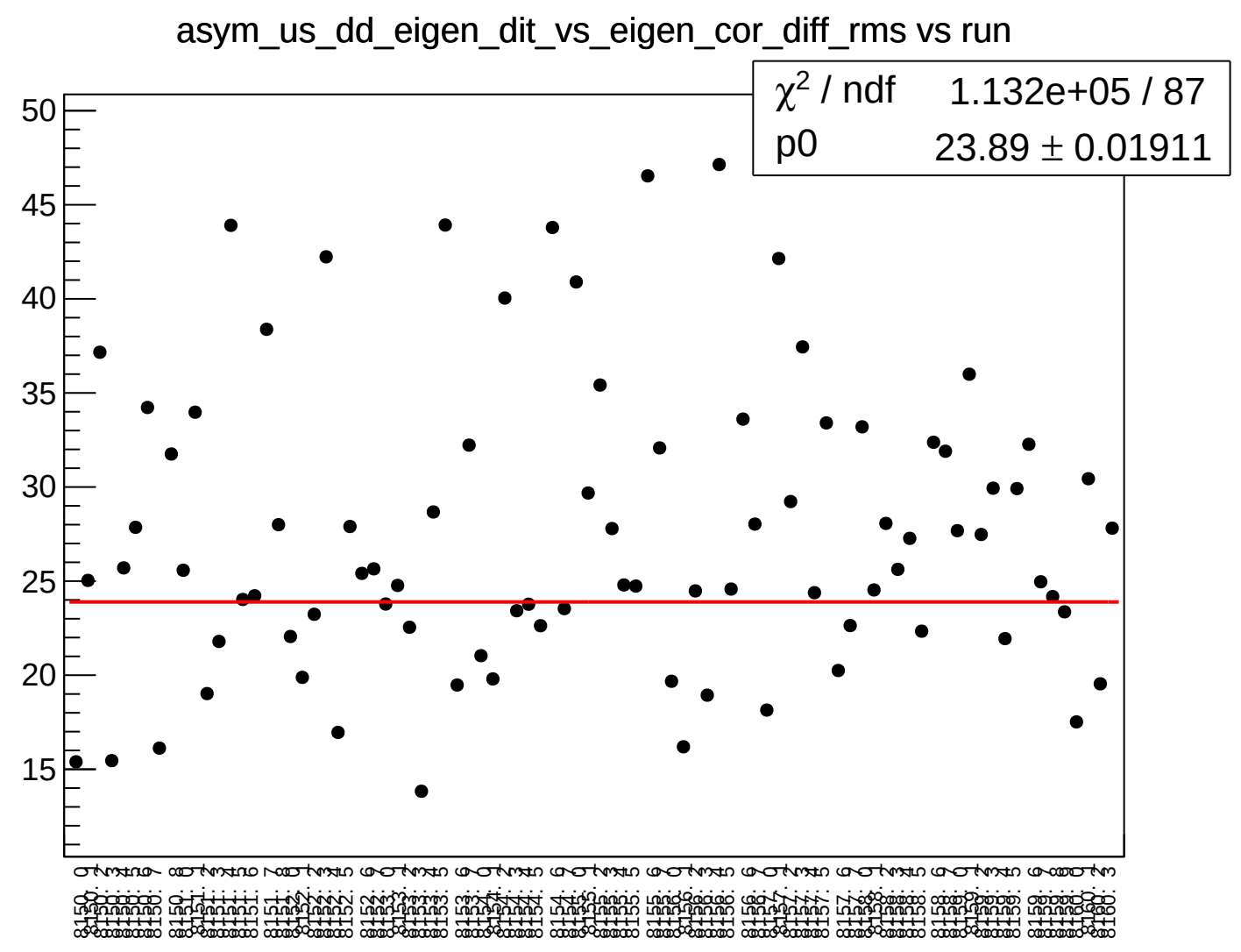

pull1D
Entries 88
Mean 0.004928
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

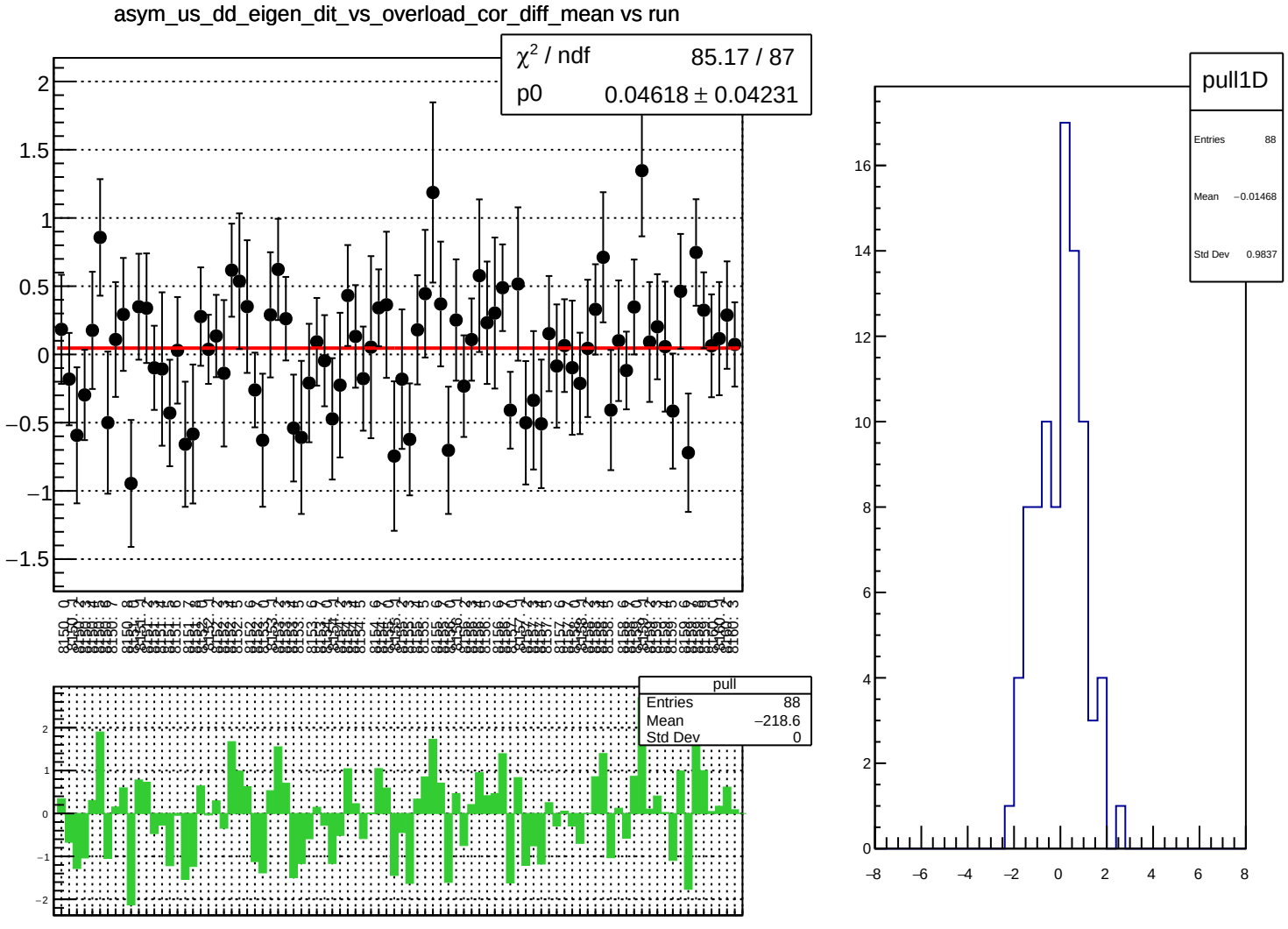

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3346 / 87
p0 0.002164 ± 1.673e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

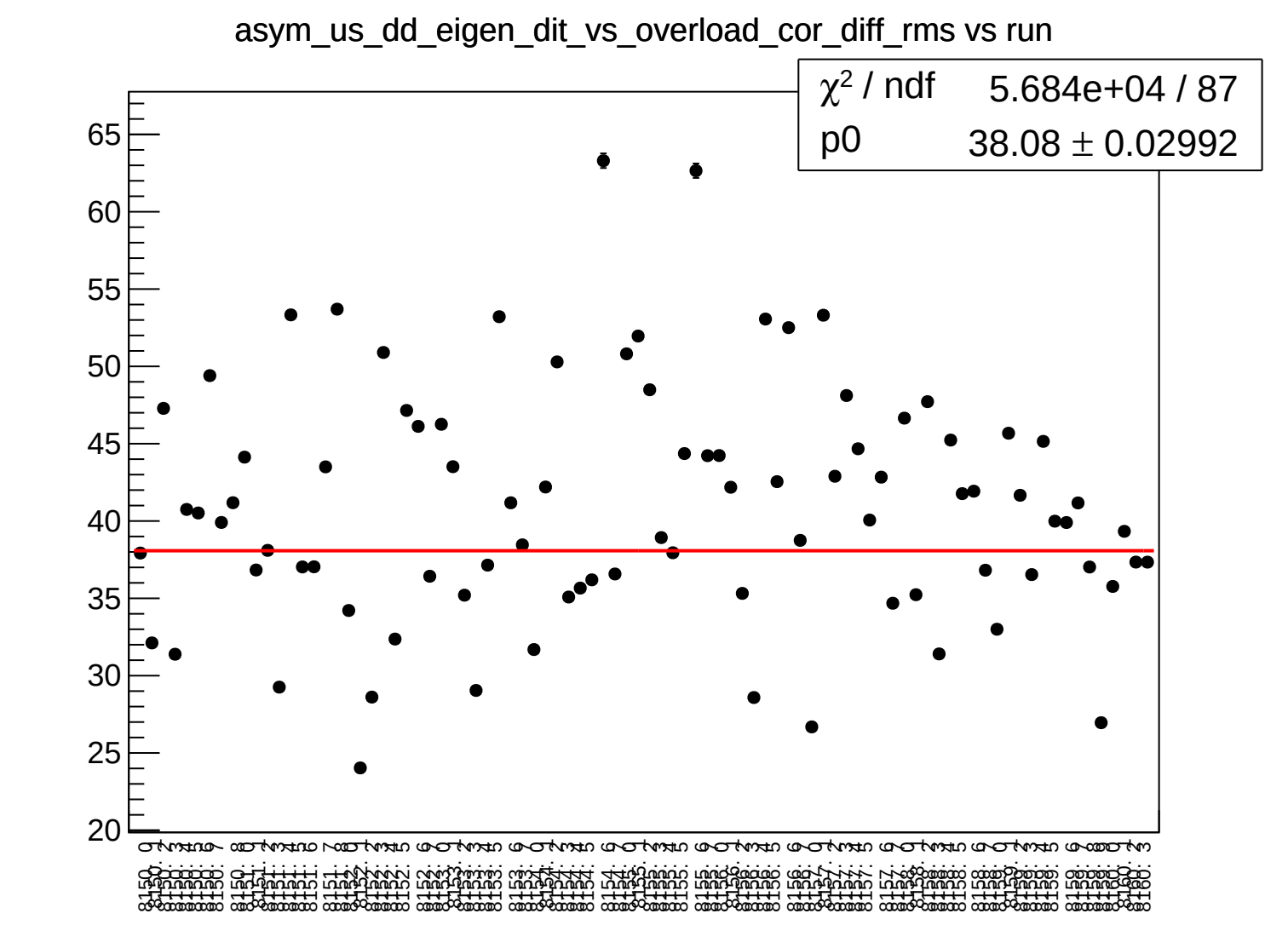

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.97 / 87
p0 0.04632 ± 0.02702
pull
Entries 88
Mean 517.9
Std Dev 0
pull1D
Entries 88
Mean 0.009241
Std Dev 1.011

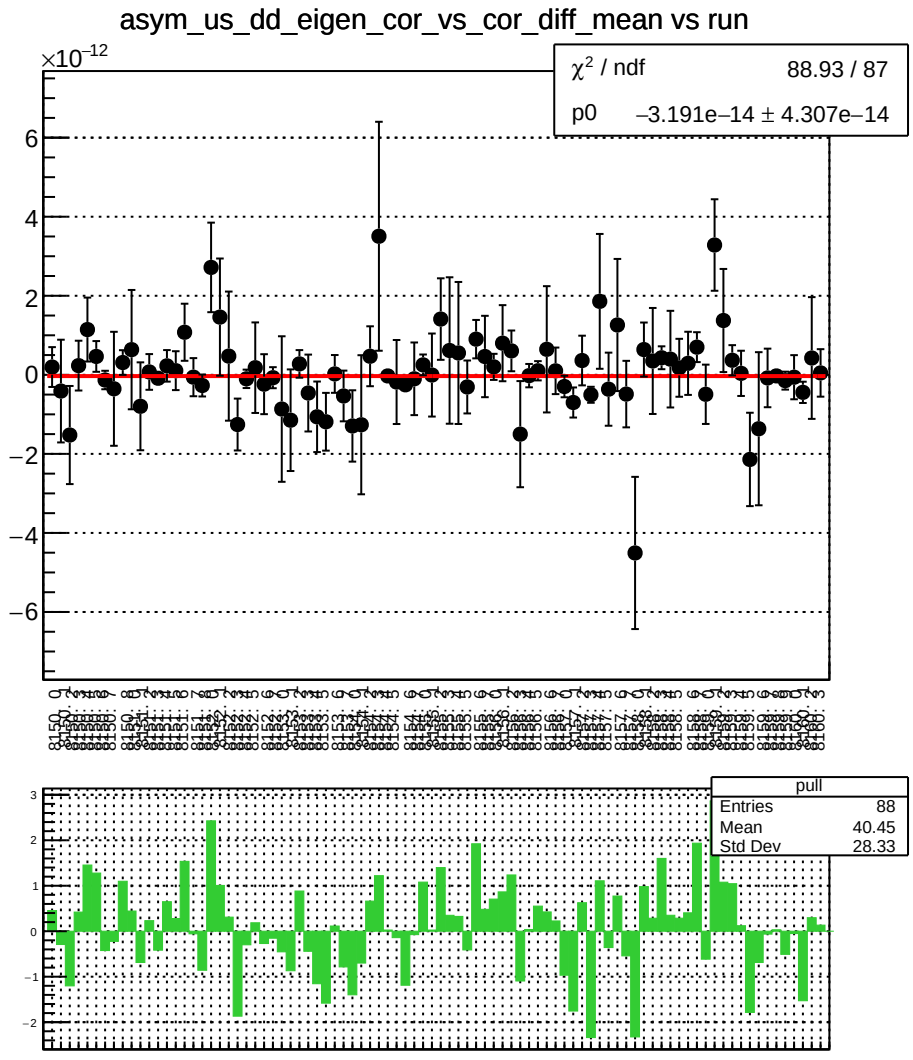

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.132e+05 / 87
p0 23.89 ± 0.01911
50
45
40
35
30
25
20
15

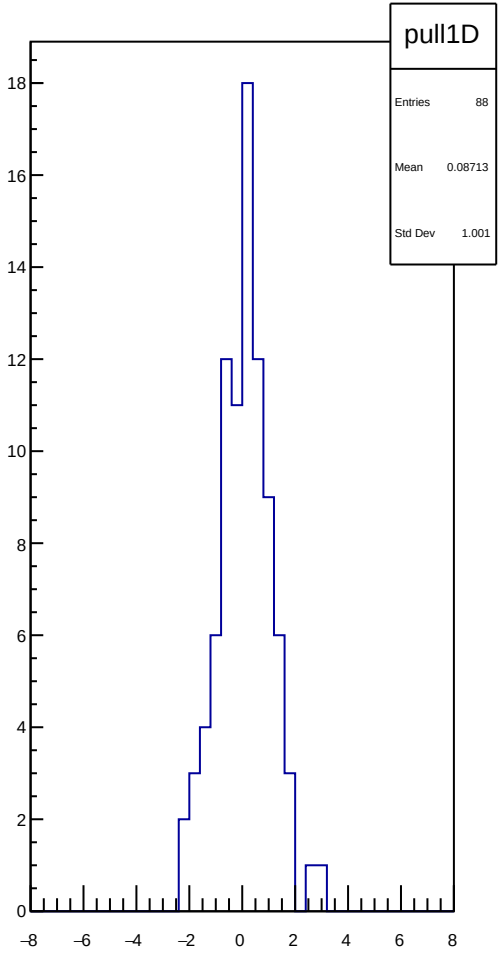

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.97 / 87
p0 0.04632 ± 0.02702
pull
Entries 88
Mean 517.9
Std Dev 0
pull1D
Entries 88
Mean 0.009241
Std Dev 1.011

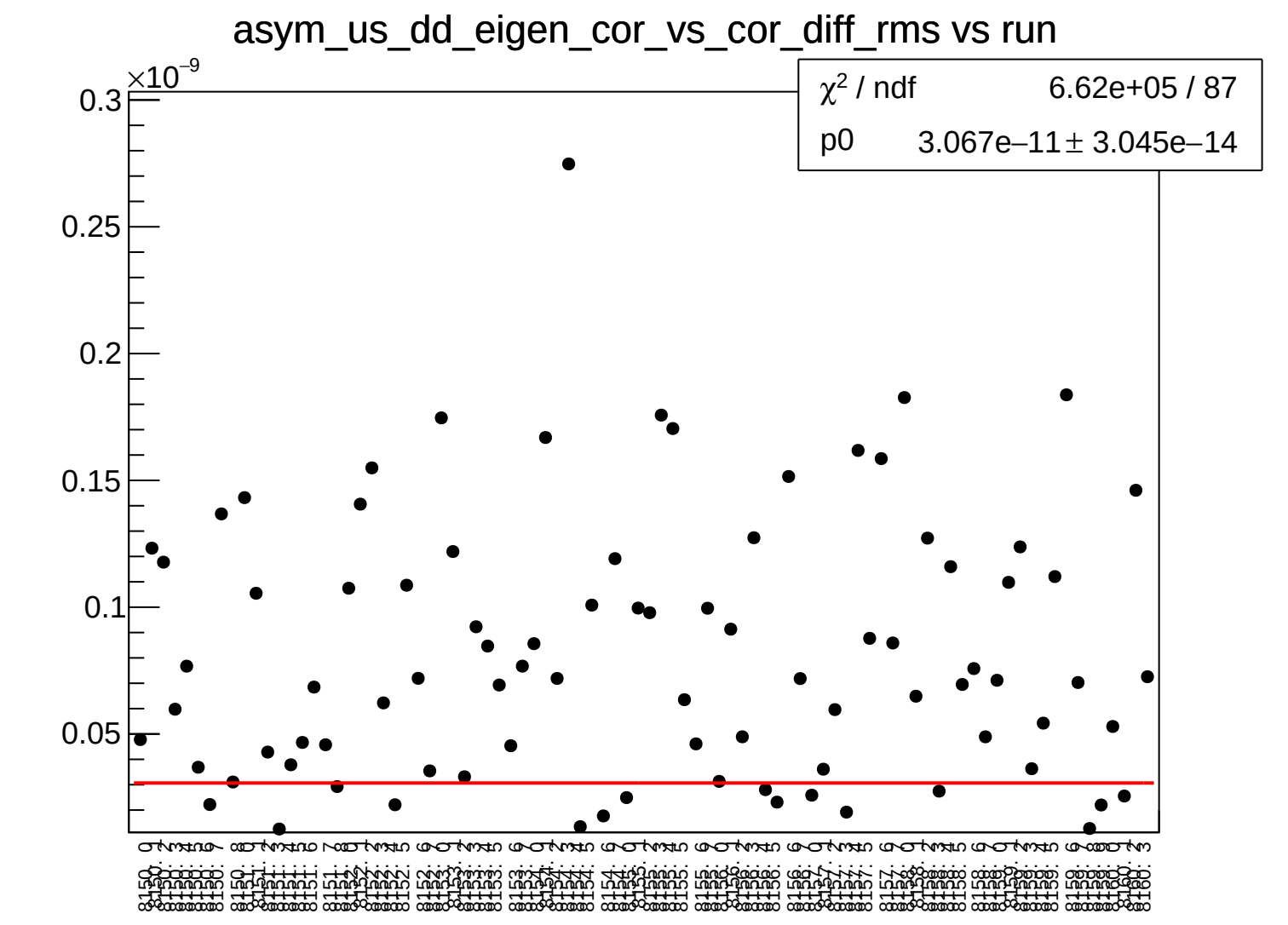

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.132e+05 / 87
p0 23.89 ± 0.01911
50
45
40
35
30
25
20
15

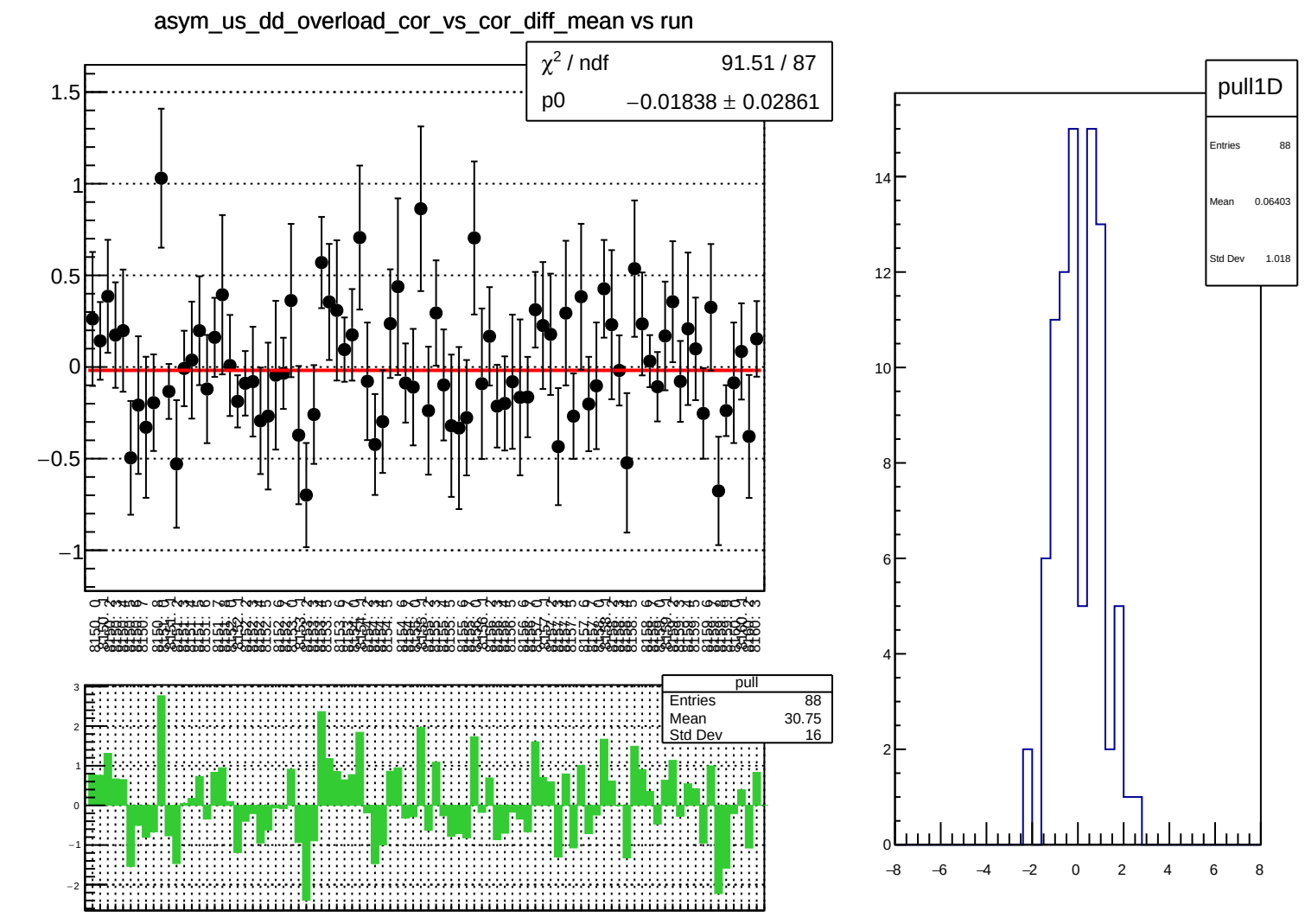

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 85.17 / 87
p0 0.04618 ± 0.04231
pull
Entries 88
Mean −218.6
Std Dev 0
pull1D
Entries 88
Mean −0.01468
Std Dev 0.9837

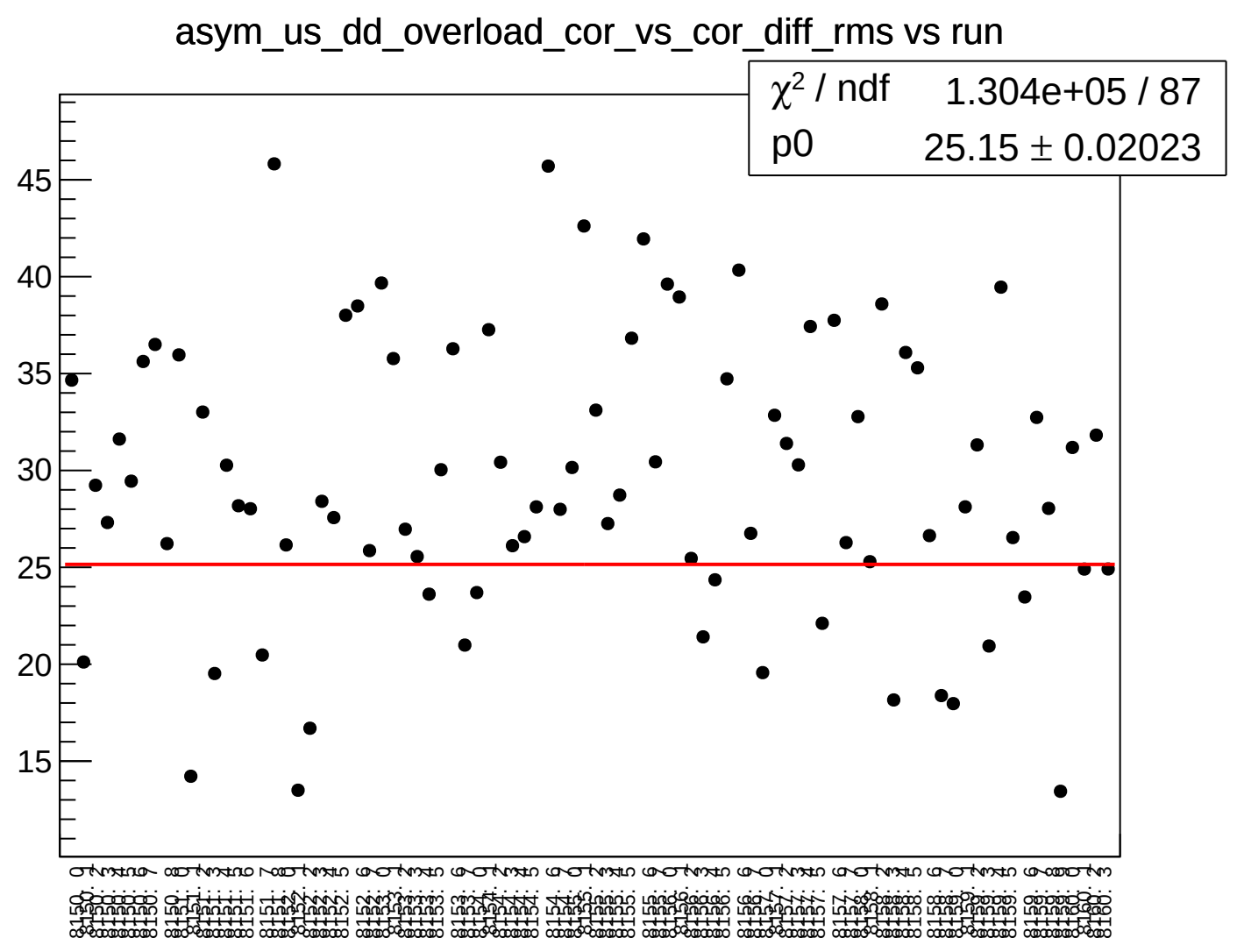

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 5.684e+04 / 87
p0 38.08 ± 0.02992
65
60
55
50
45
40
35
30
25
20

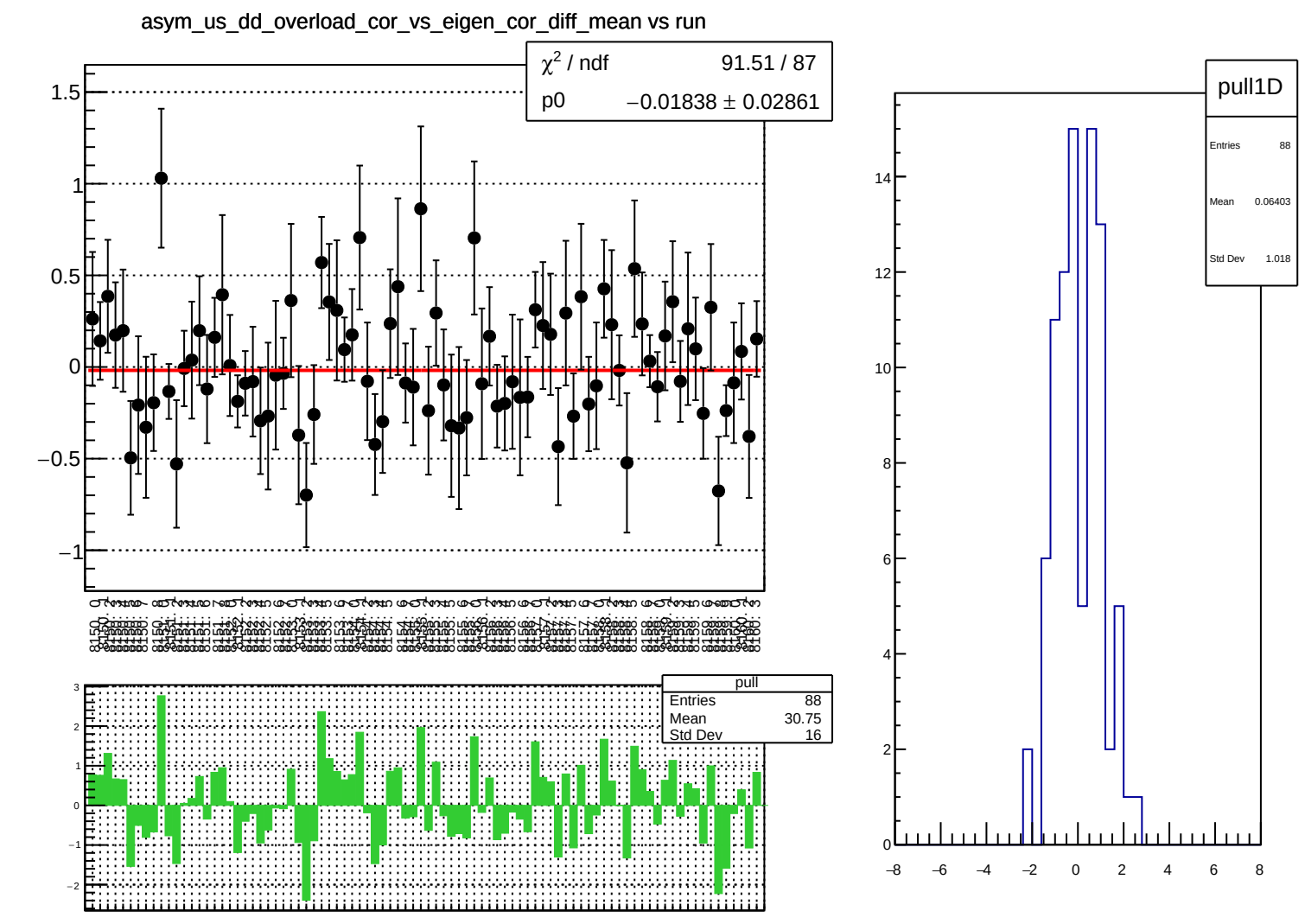

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.93 / 87
p0 −3.191e−14 ± 4.307e−14
pull
Entries 88
Mean 40.45
Std Dev 28.33

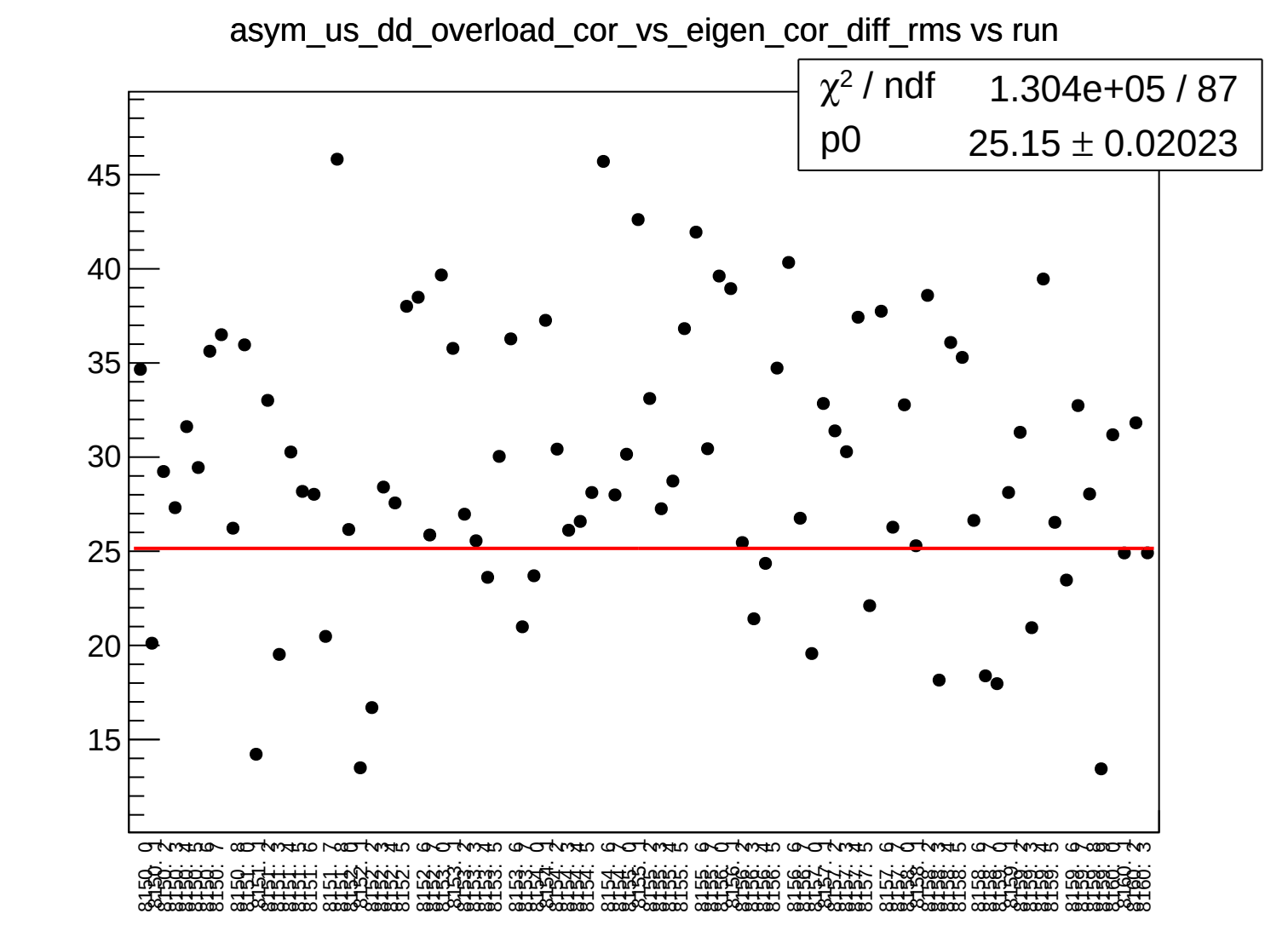

pull1D
Entries 88
Mean 0.08713
Std Dev 1.001

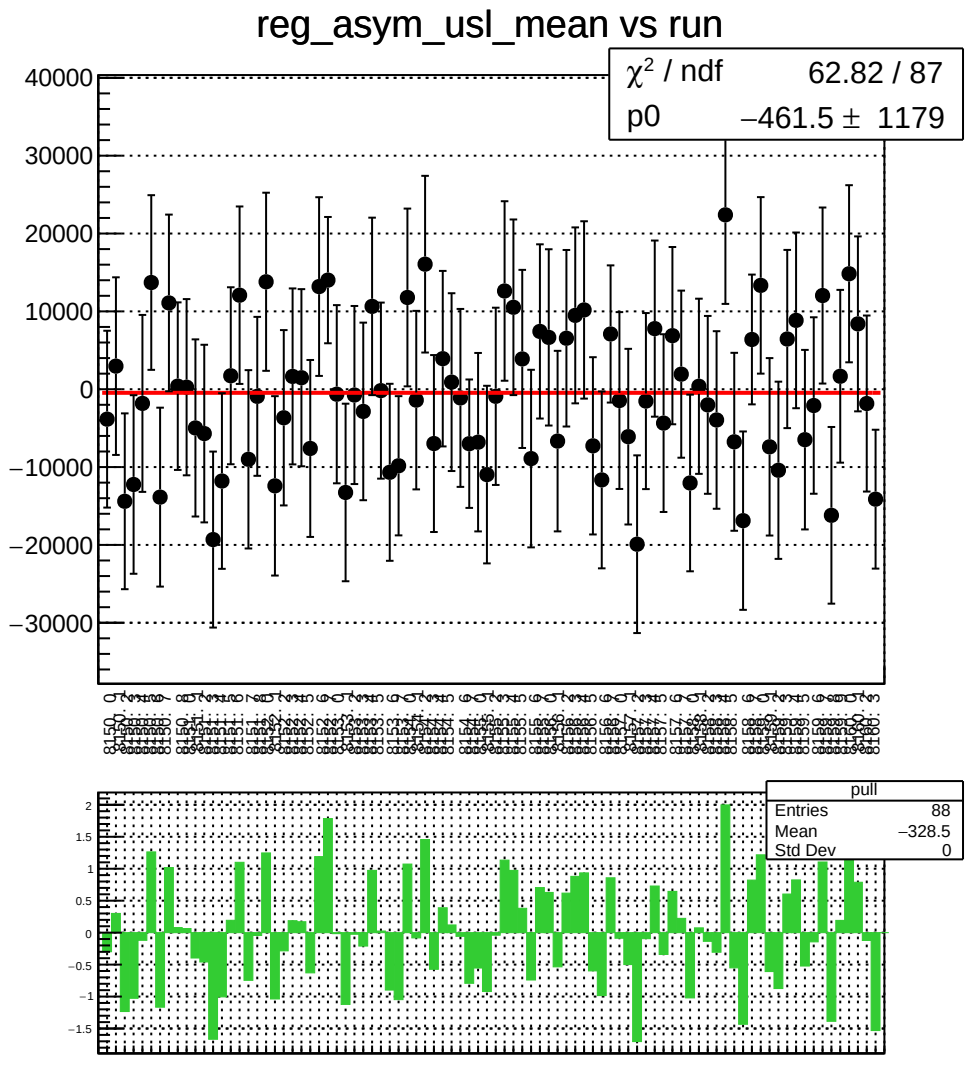

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 6.62e+05 / 87
p0 3.067e−11 ± 3.045e−14

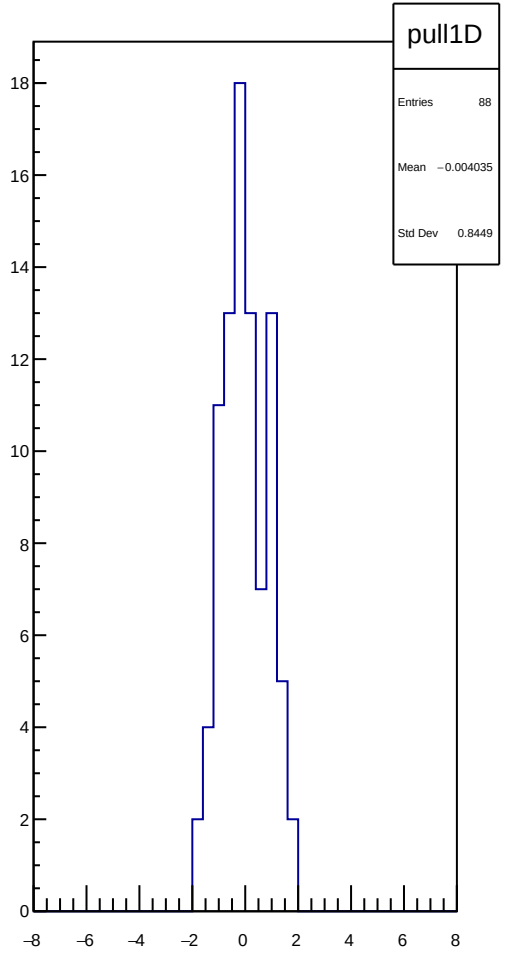

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 91.51 / 87
p0 −0.01838 ± 0.02861
pull
Entries 88
Mean 30.75
Std Dev 16
pull1D
Entries 88
Mean 0.06403
Std Dev 1.018

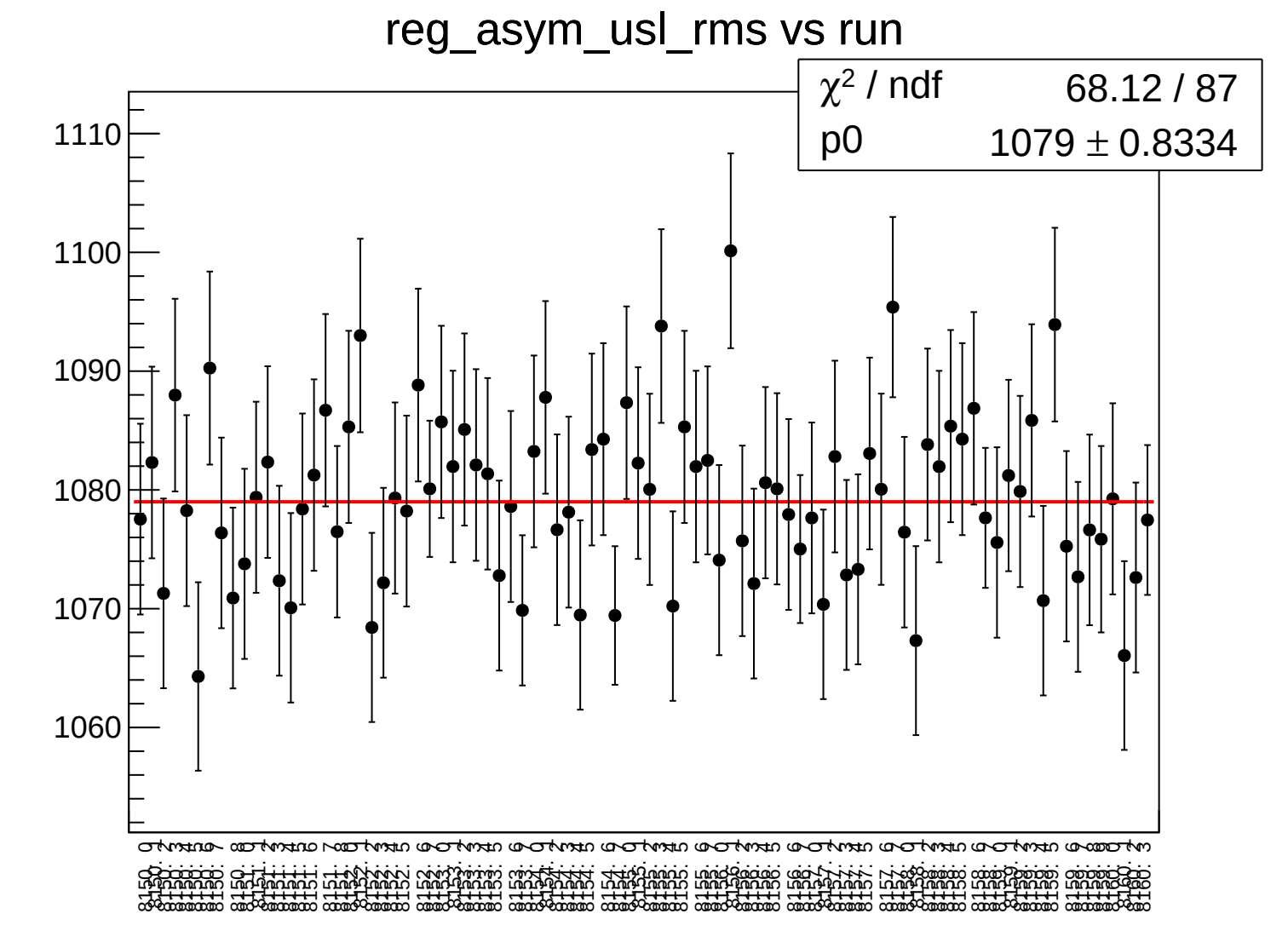

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.304e+05 / 87
p0 25.15 ± 0.02023
45
40
35
30
25
20
15

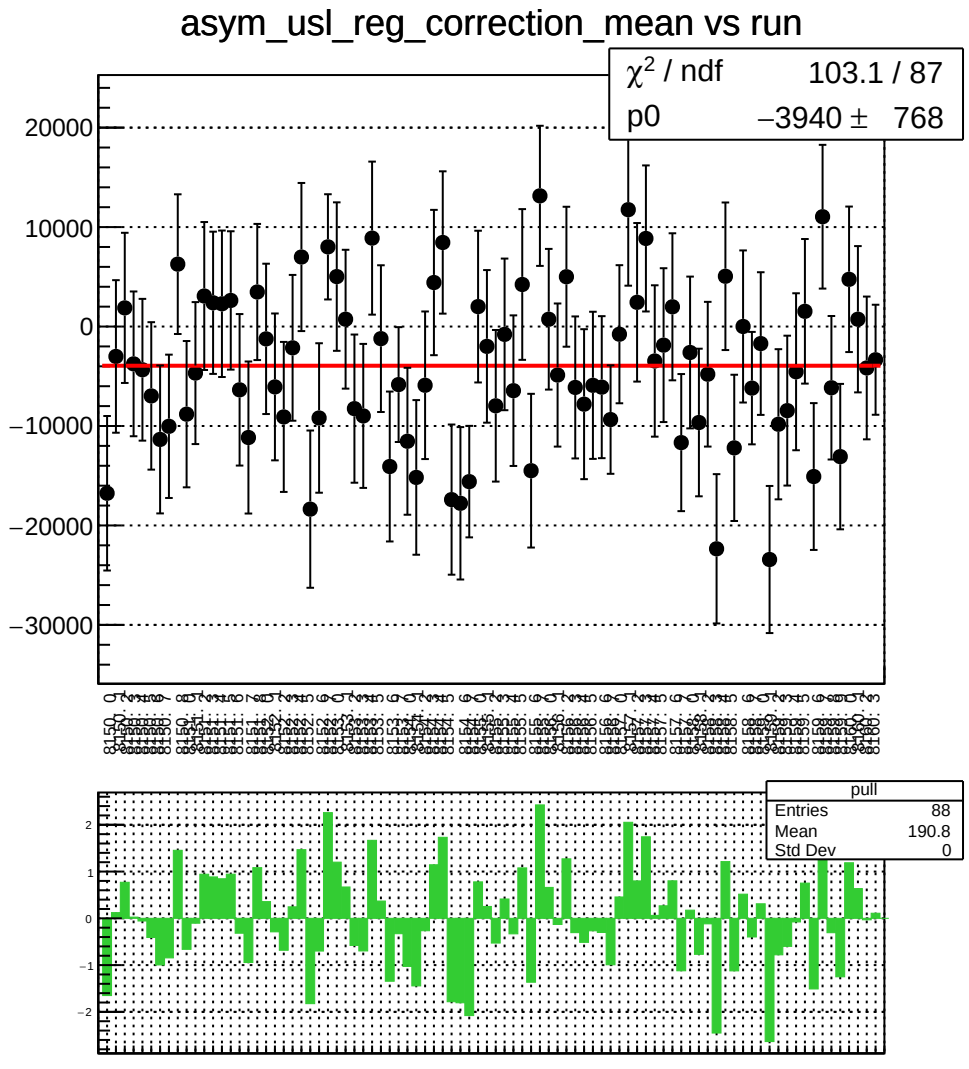

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.51 / 87
p0 −0.01838 ± 0.02861
pull
Entries 88
Mean 30.75
Std Dev 16
pull1D
Entries 88
Mean 0.06403
Std Dev 1.018

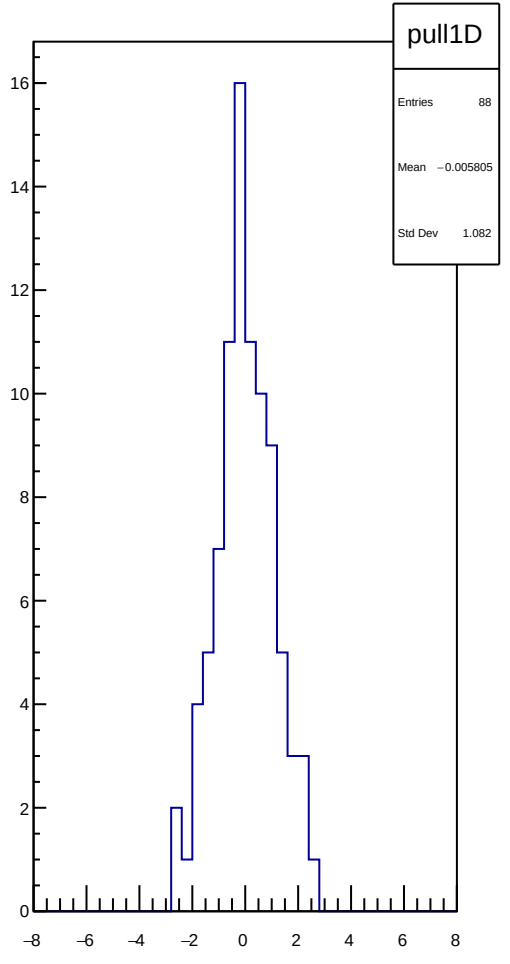

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.304e+05 / 87
p0 25.15 ± 0.02023
45
40
35
30
25
20
15

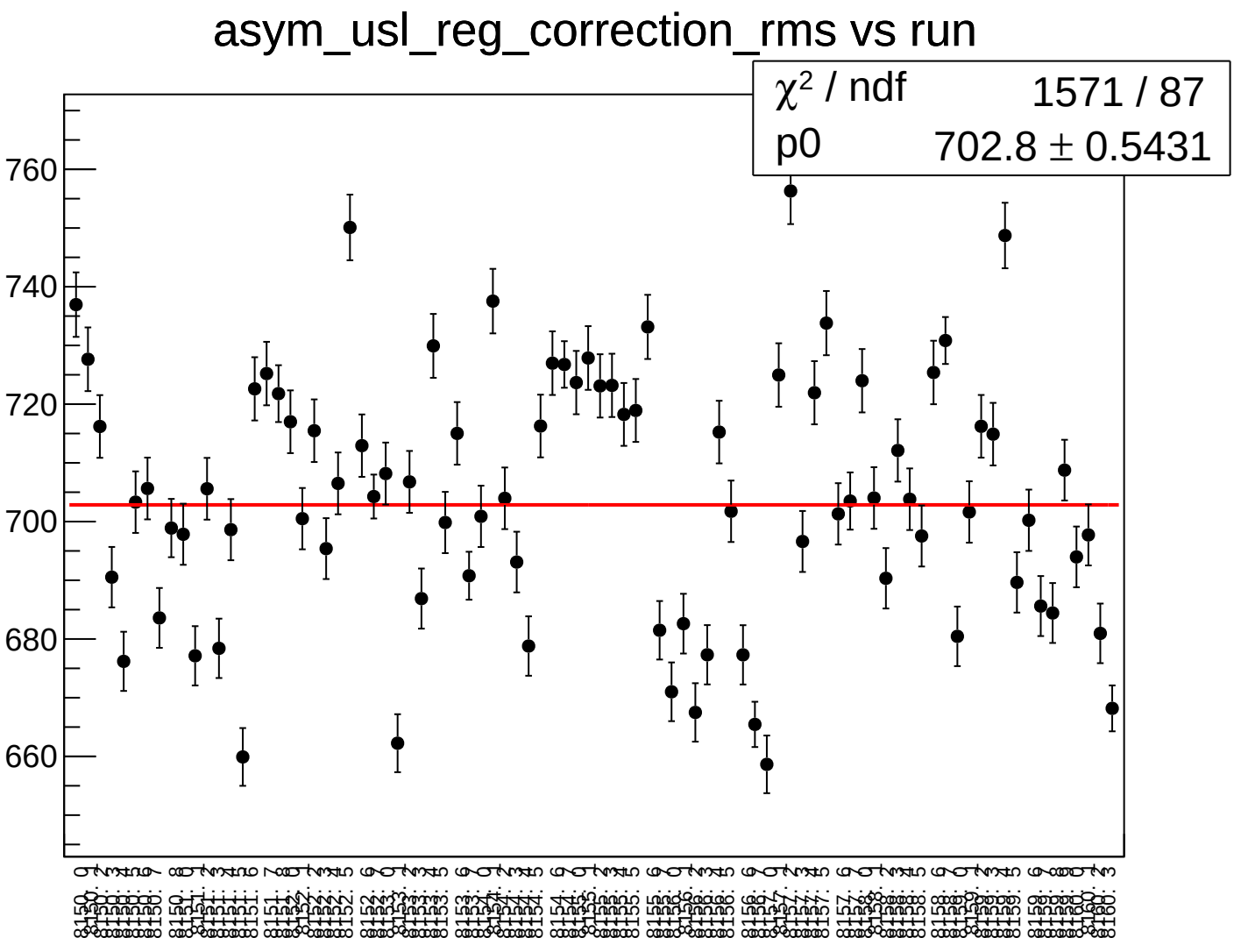

reg_asym_usl_mean vs run
χ² / ndf 62.82 / 87
p0 −461.5 ± 1179
pull
Entries 88
Mean −328.5
Std Dev 0

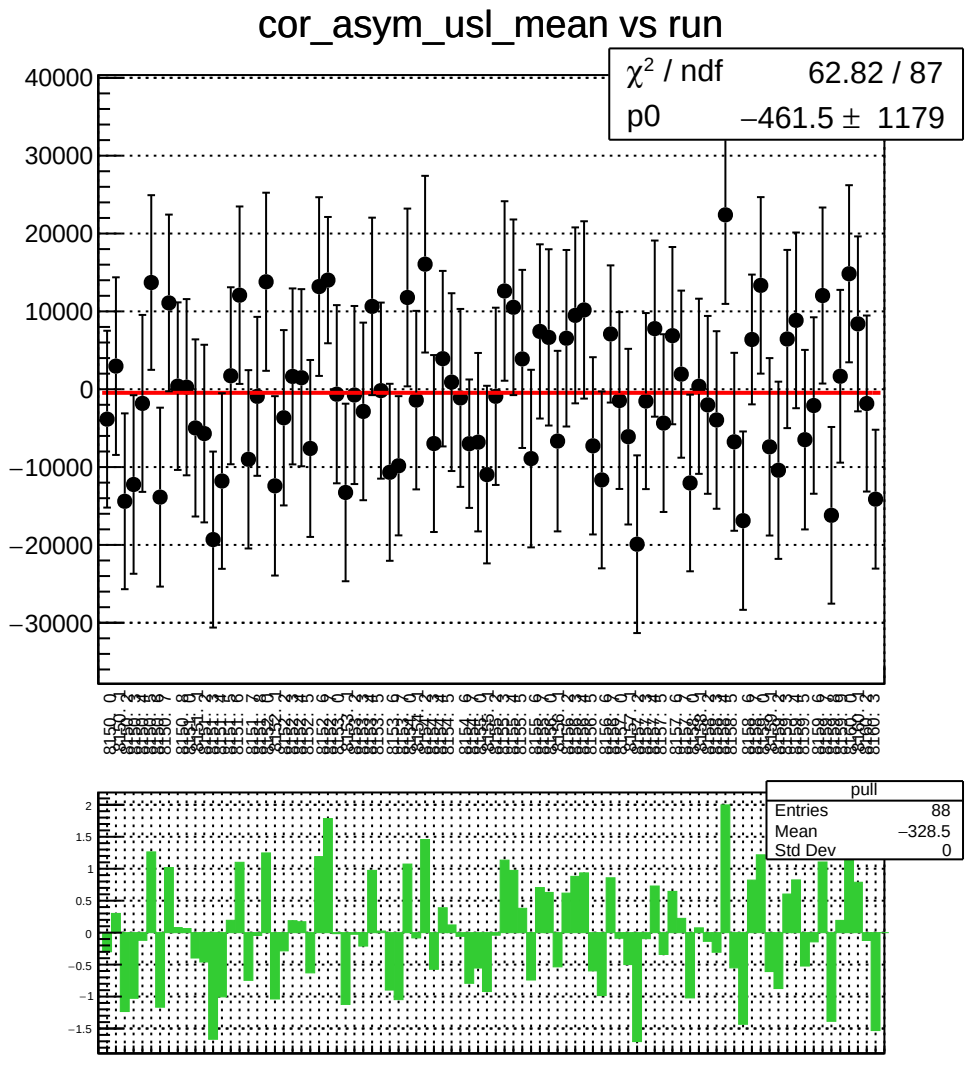

pull1D
Entries 88
Mean −0.004035
Std Dev 0.8449

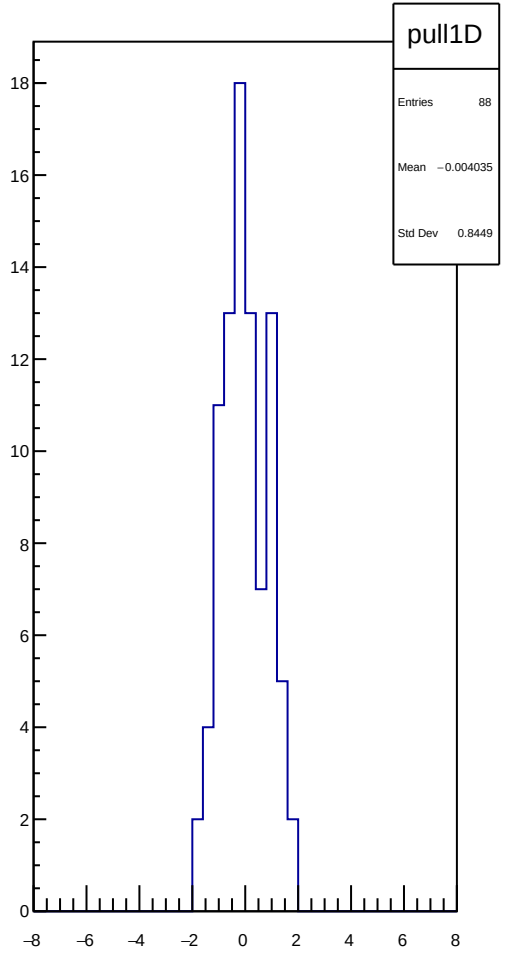

reg_asym_usl_rms vs run
χ² / ndf 68.12 / 87
p0 1079 ± 0.8334
1110
1100
1090
1080
1070
1060

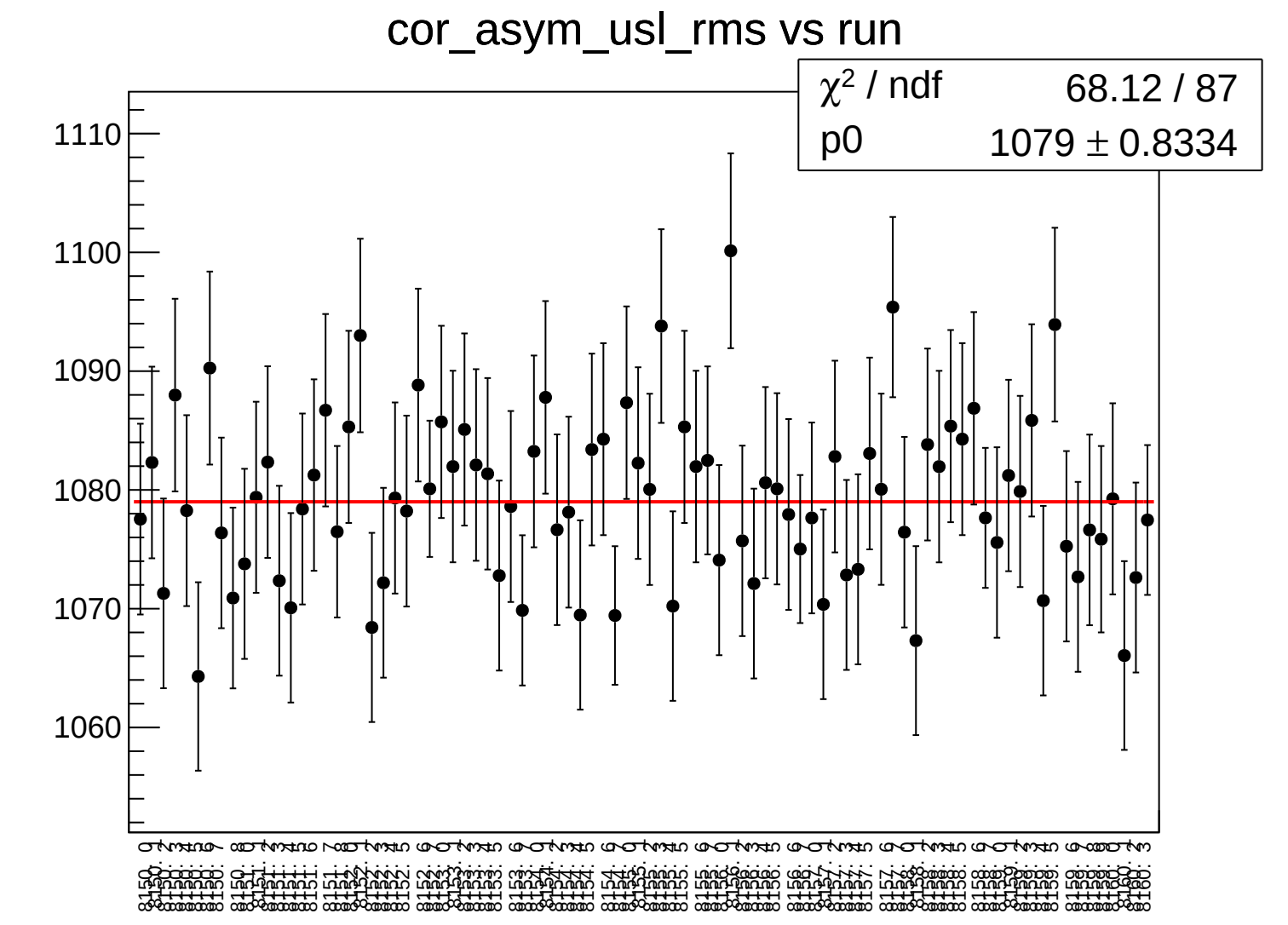

asym_usl_reg_correction_mean vs run
χ² / ndf 103.1 / 87
p0 −3940 ± 768
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 190.8
Std Dev 0
2
1
0
−1
−2

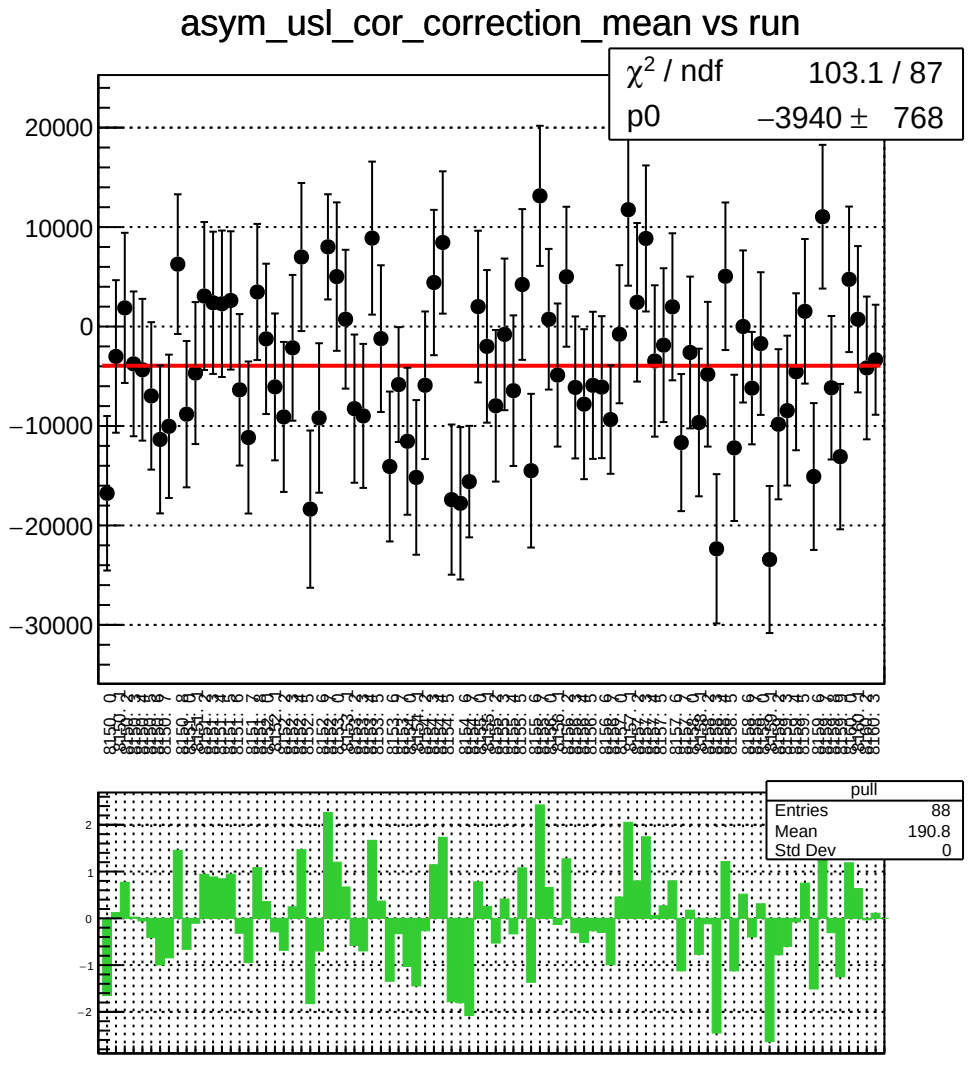

pull1D
Entries 88
Mean −0.005805
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

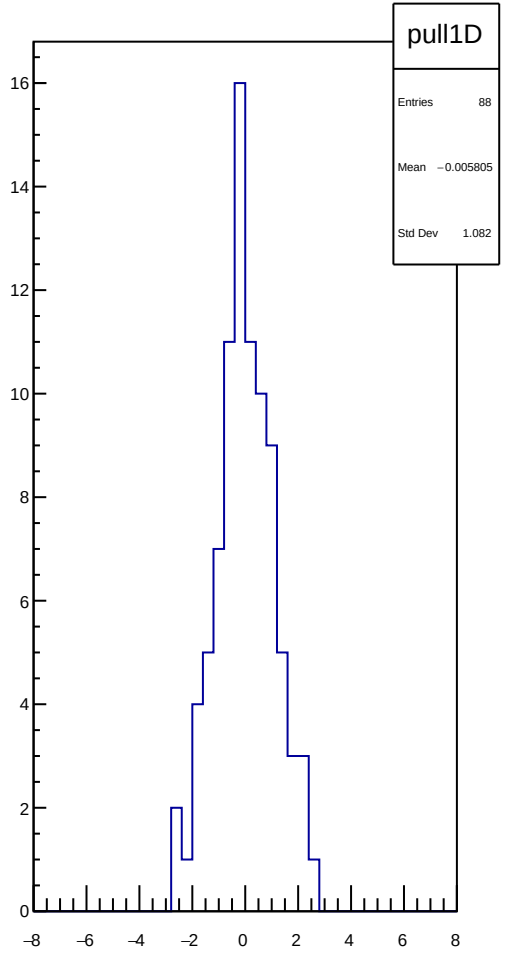

asym_usl_reg_correction_rms vs run
χ² / ndf 1571 / 87
p0 702.8 ± 0.5431
760
740
720
700
680
660

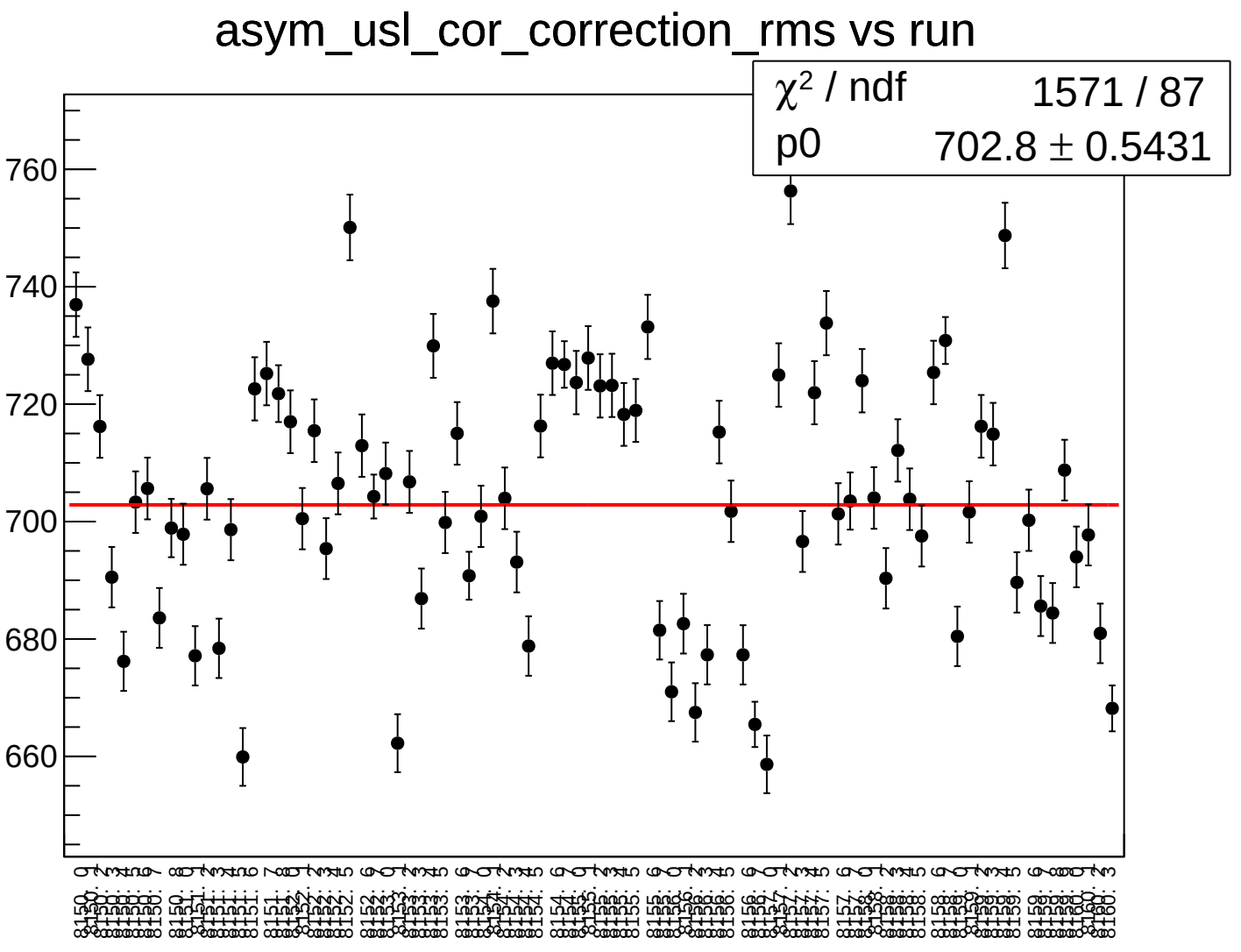

cor_asym_usl_mean vs run
χ² / ndf 62.82 / 87
p0 −461.5 ± 1179
pull
Entries 88
Mean −328.5
Std Dev 0

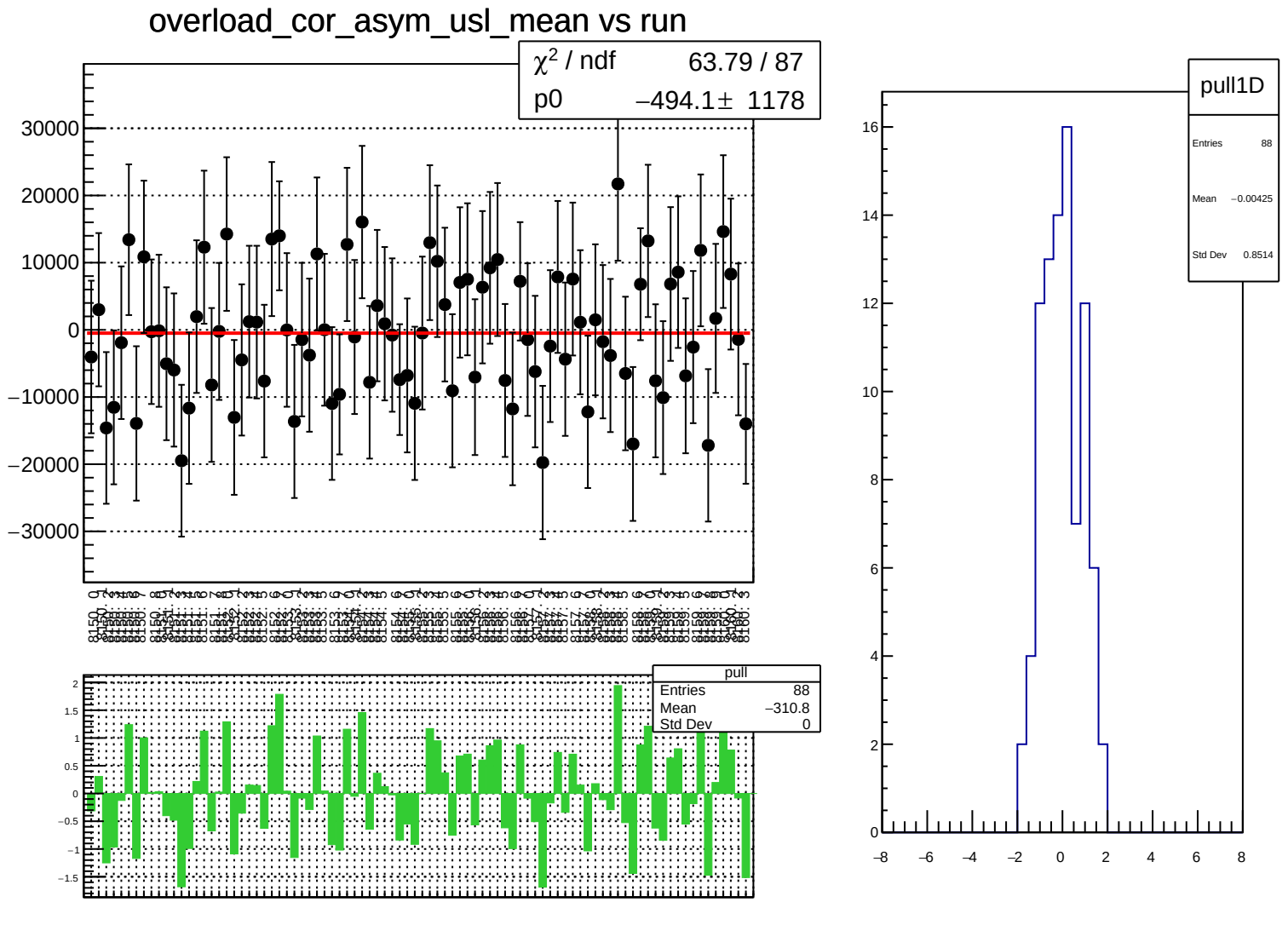

pull1D
Entries 88
Mean −0.004035
Std Dev 0.8449

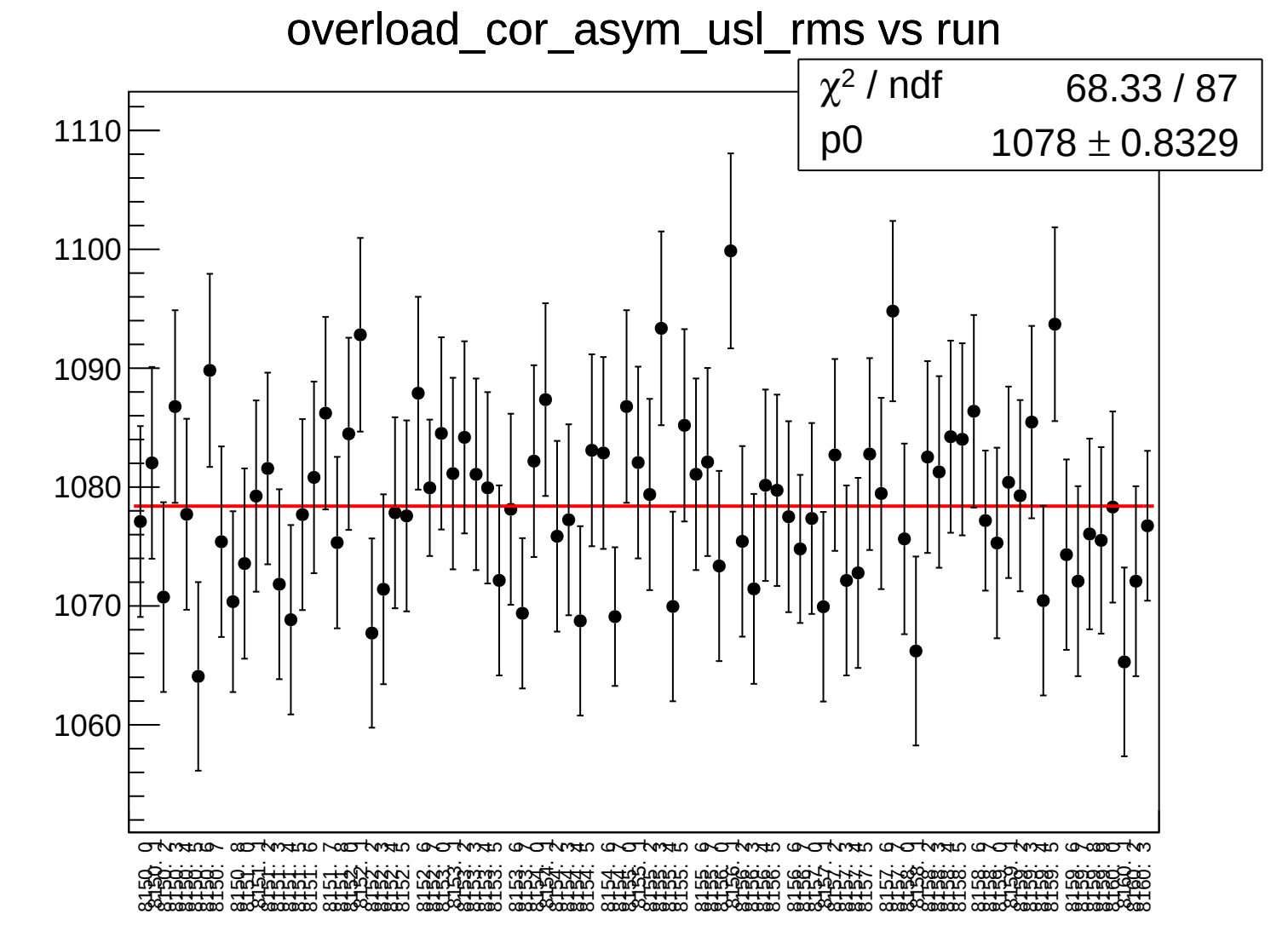

cor_asym_usl_rms vs run
χ² / ndf 68.12 / 87
p0 1079 ± 0.8334
1110
1100
1090
1080
1070
1060

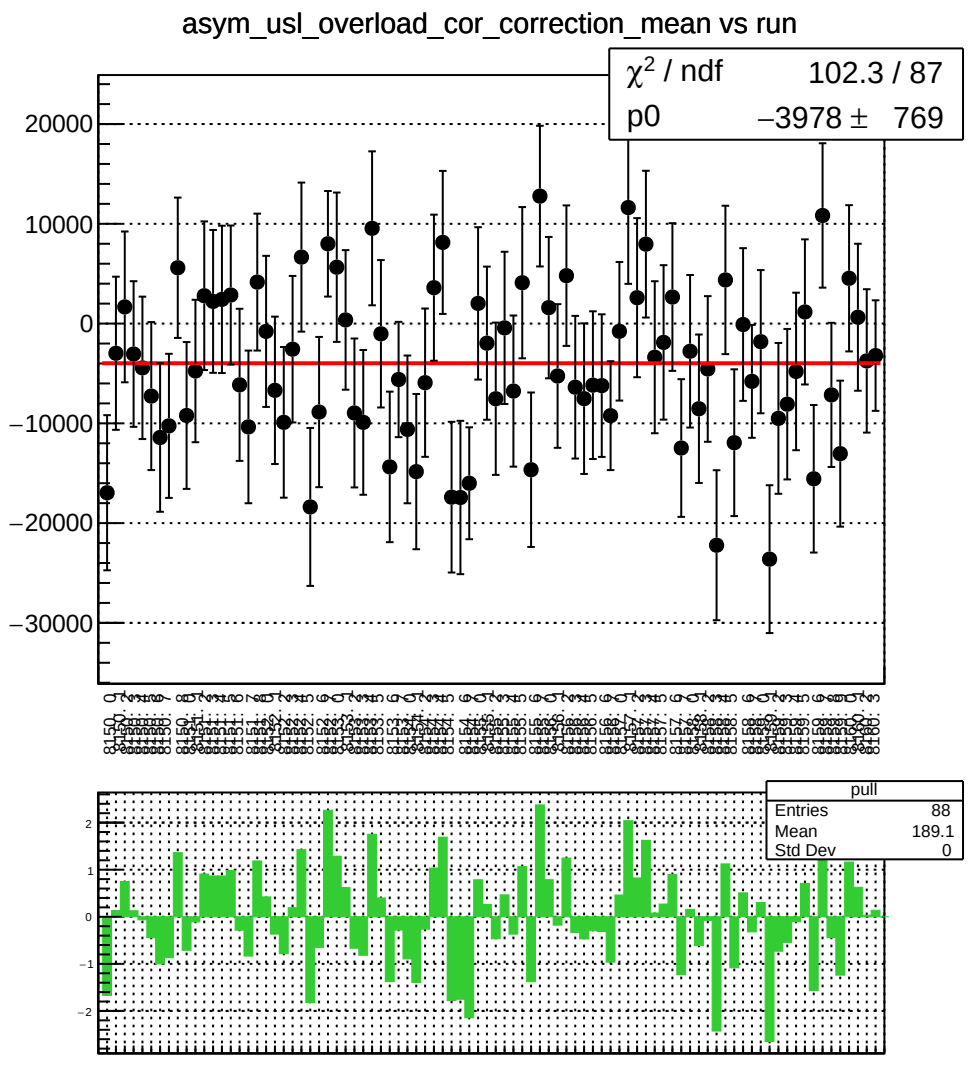

asym_usl_cor_correction_mean vs run
χ² / ndf 103.1 / 87
p0 −3940 ± 768
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 190.8
Std Dev 0
2
1
0
−1
−2

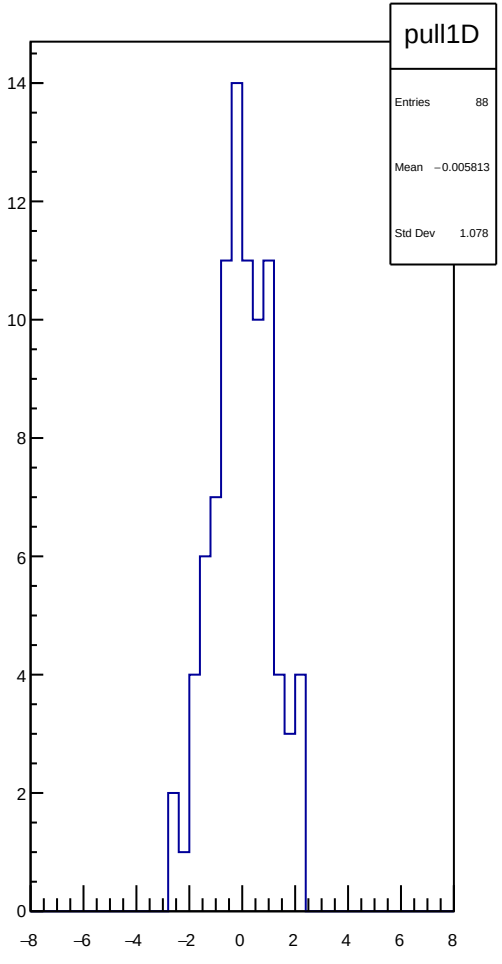

pull1D
Entries 88
Mean −0.005805
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

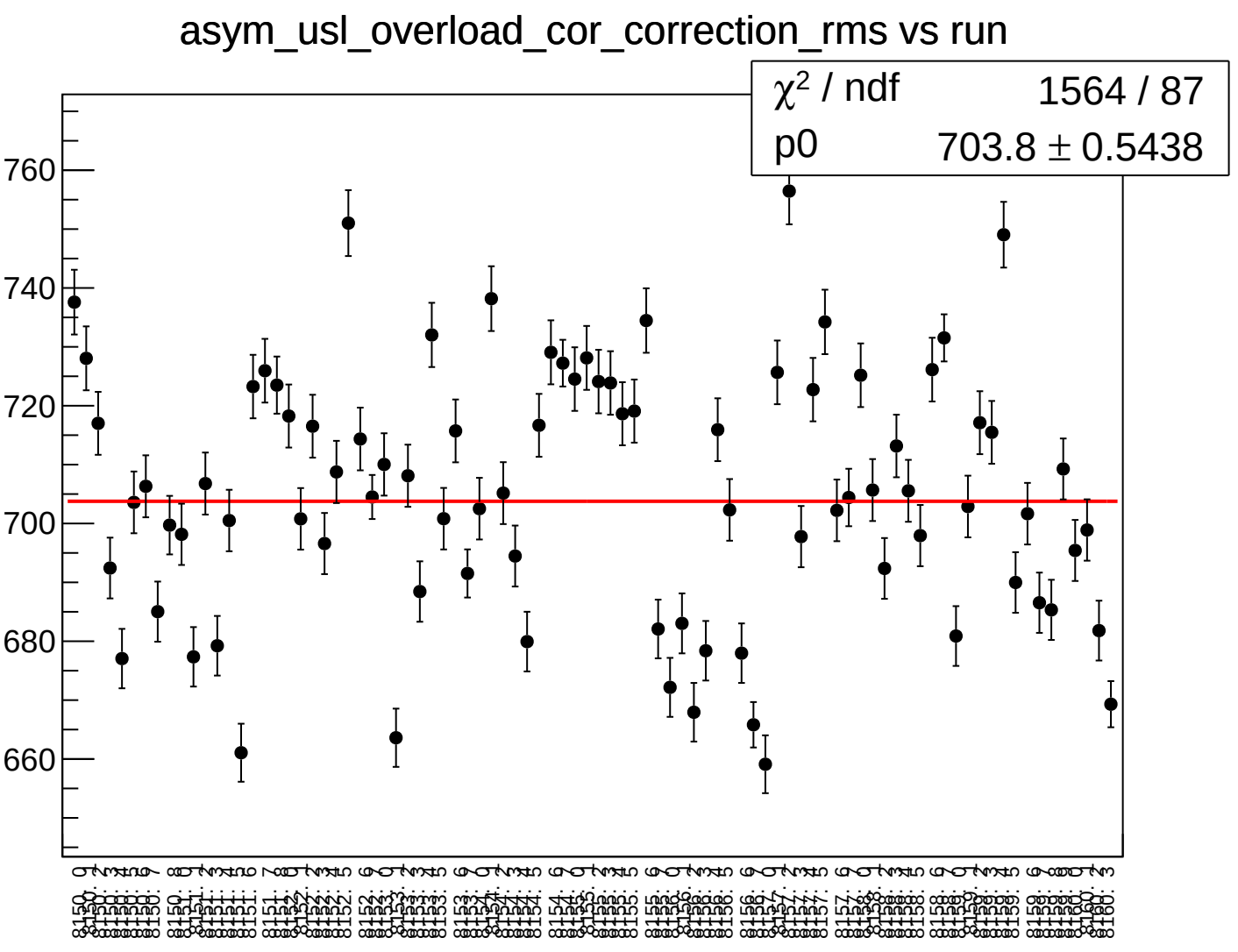

asym_usl_cor_correction_rms vs run
χ² / ndf 1571 / 87
p0 702.8 ± 0.5431
760
740
720
700
680
660

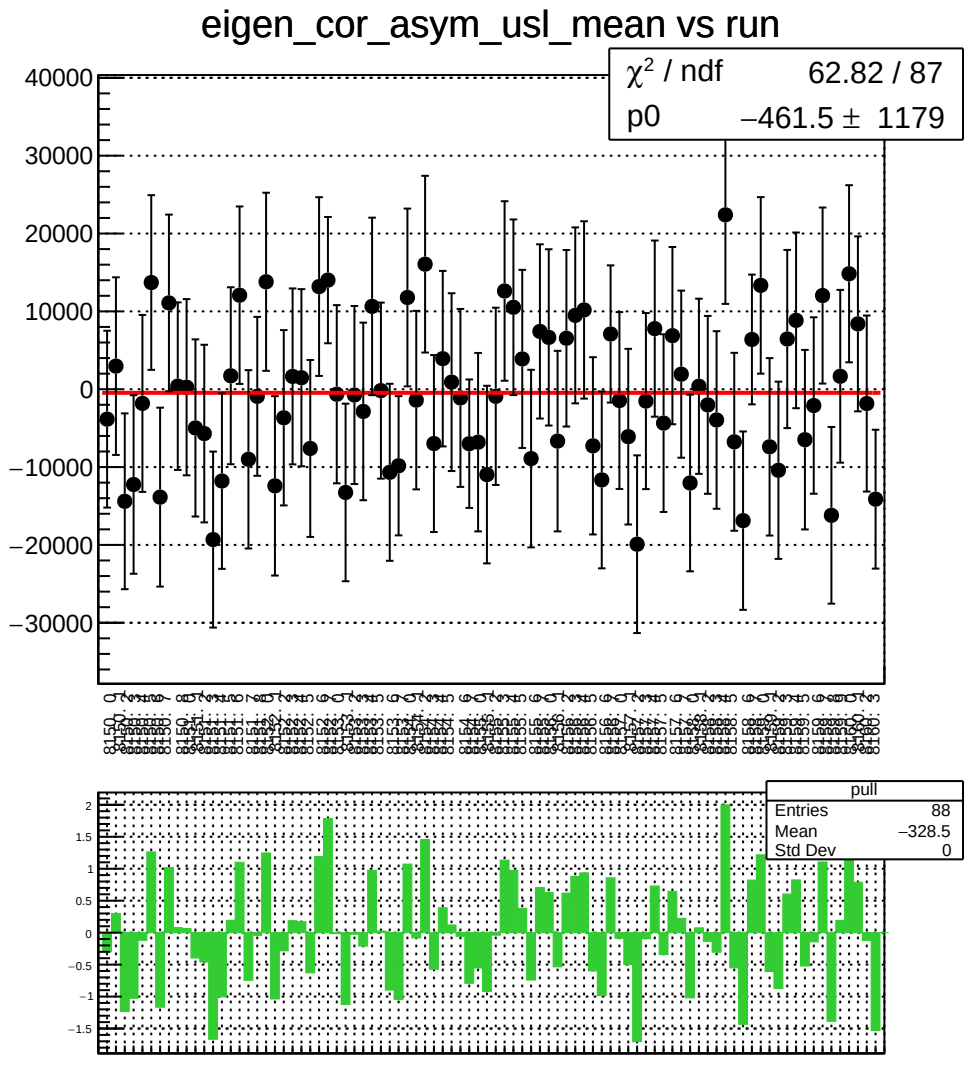

overload_cor_asym_usl_mean vs run
χ² / ndf 63.79 / 87
p0 −494.1± 1178
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −310.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −0.00425
Std Dev 0.8514
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

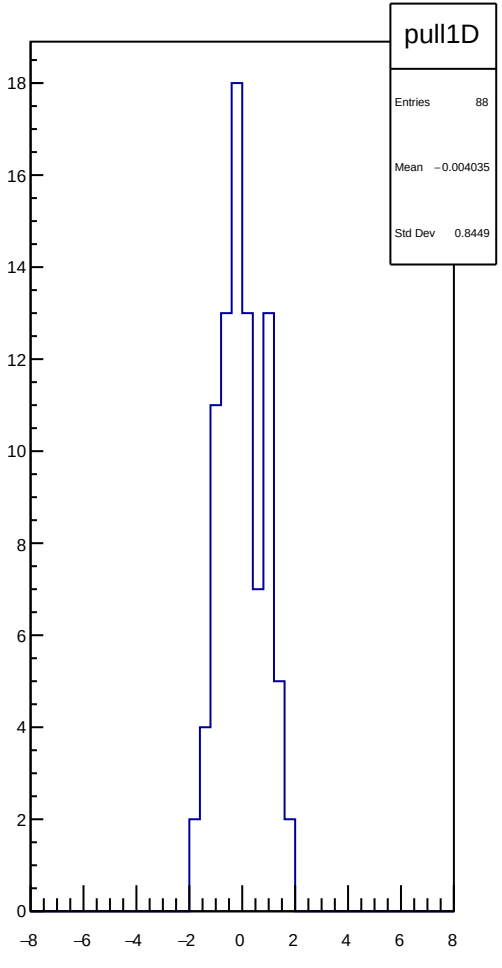

overload_cor_asym_usl_rms vs run
χ² / ndf 68.33 / 87
p0 1078 ± 0.8329
1110
1100
1090
1080
1070
1060

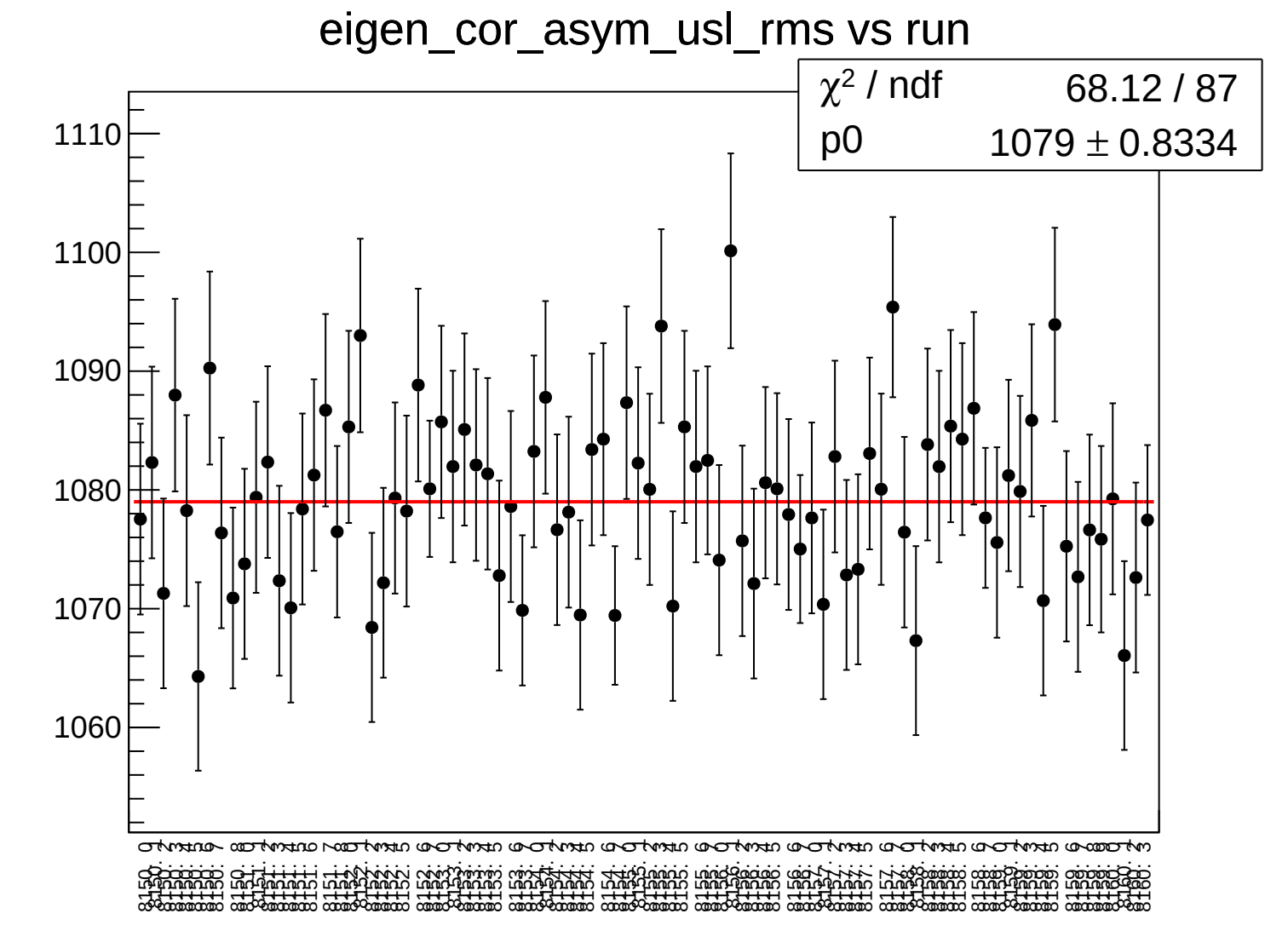

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 102.3 / 87
p0 −3978 ± 769
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 189.1
Std Dev 0
2
1
0
−1
−2

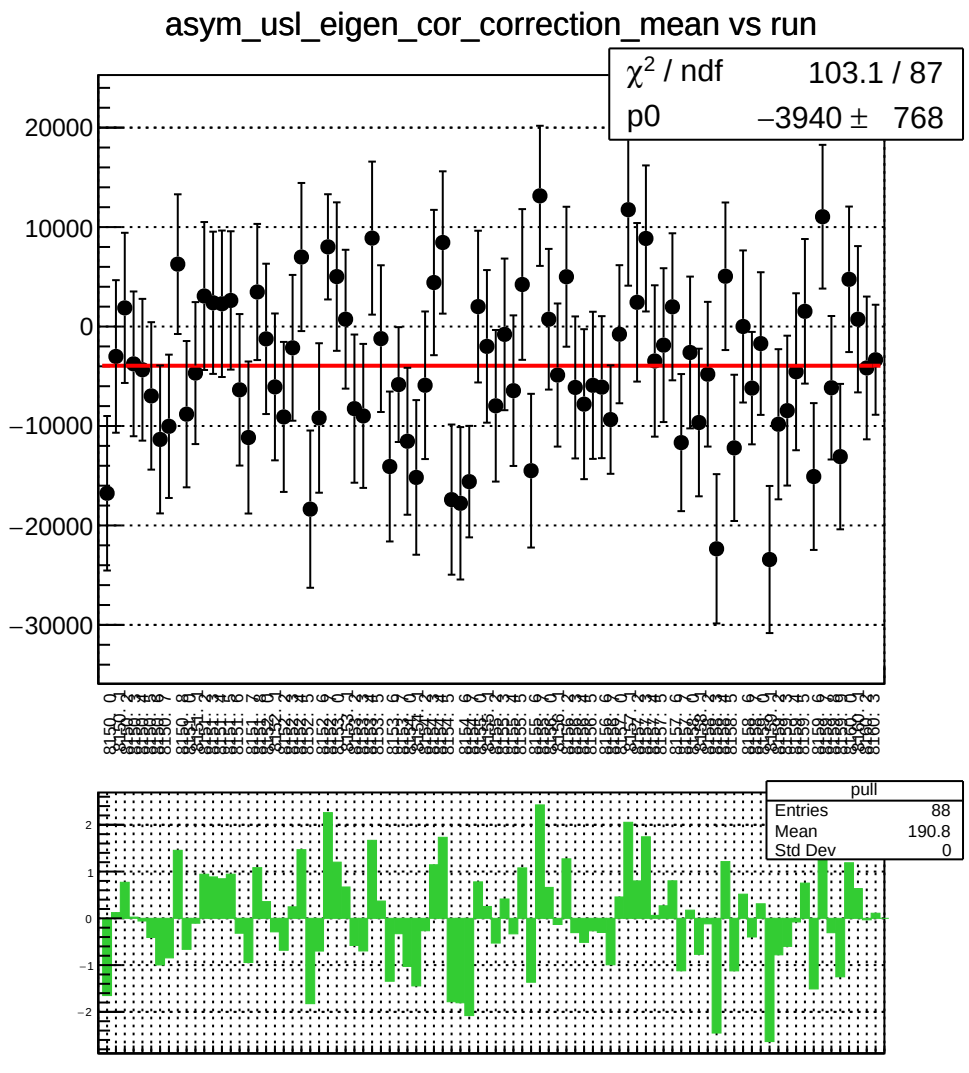

pull1D
Entries 88
Mean −0.005813
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

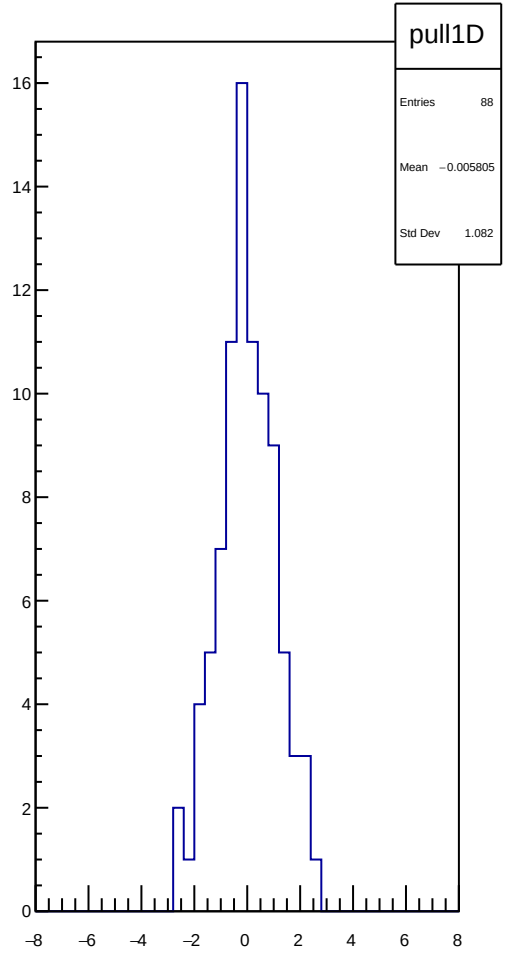

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 1564 / 87
p0 703.8 ± 0.5438
760
740
720
700
680
660

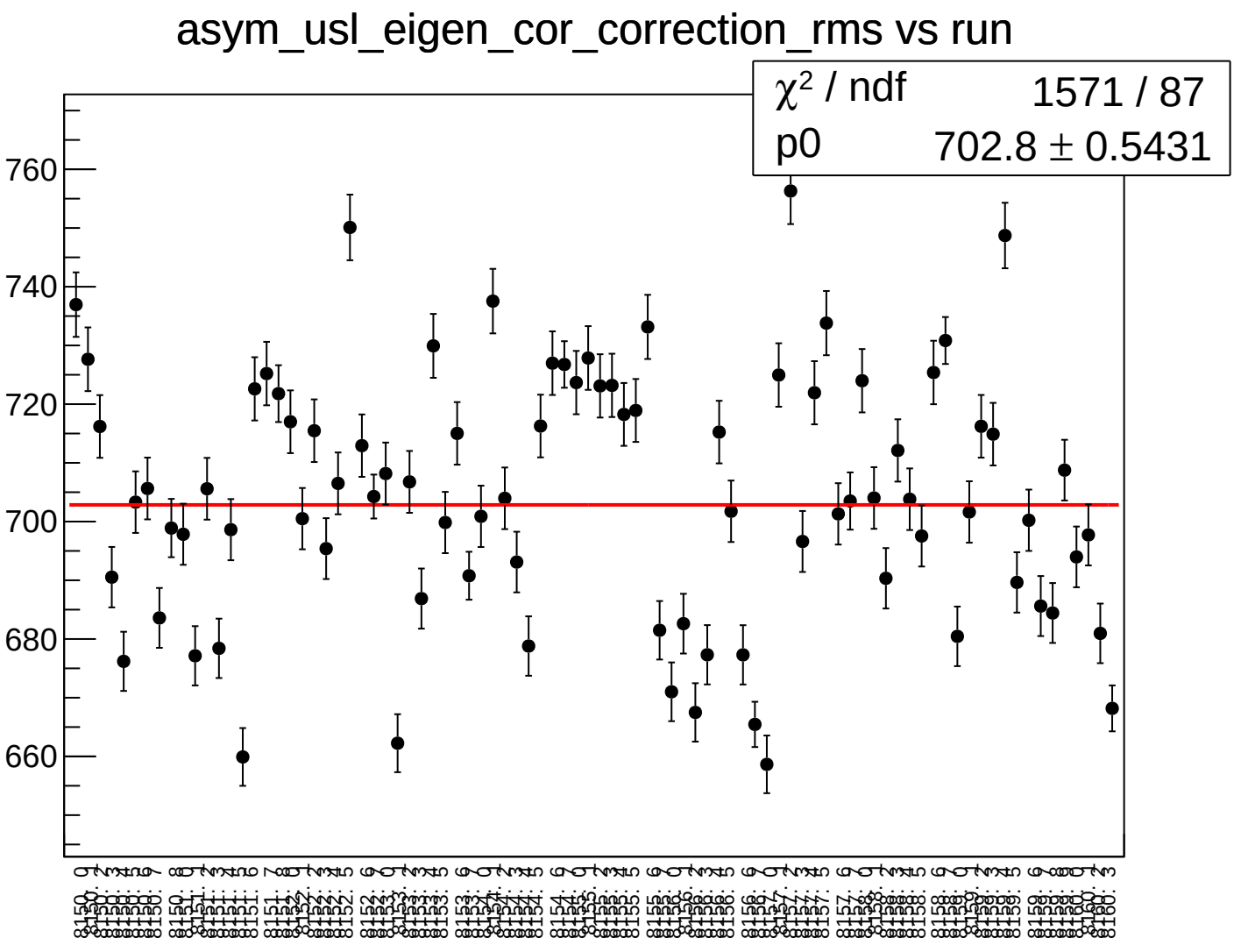

eigen_cor_asym_usl_mean vs run
χ² / ndf 62.82 / 87
p0 −461.5 ± 1179
pull
Entries 88
Mean −328.5
Std Dev 0

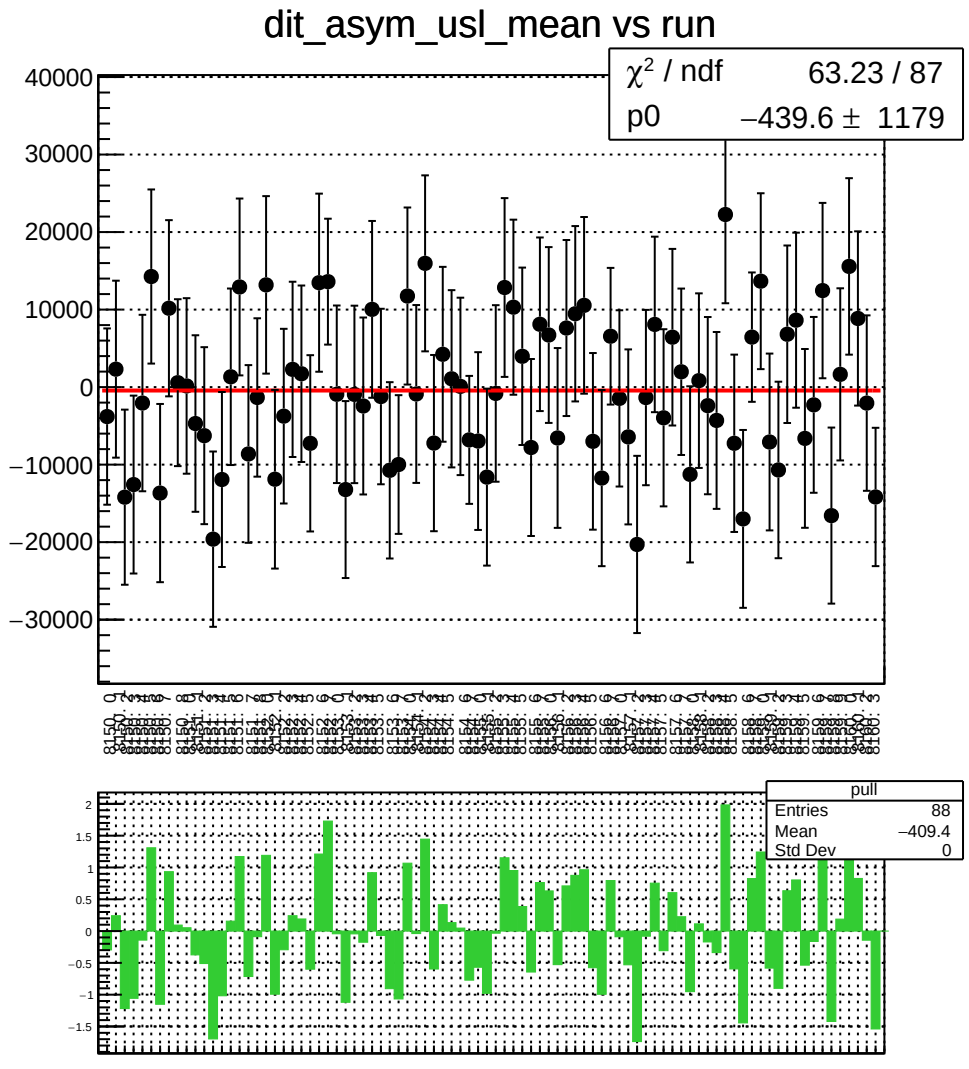

pull1D
Entries 88
Mean −0.004035
Std Dev 0.8449

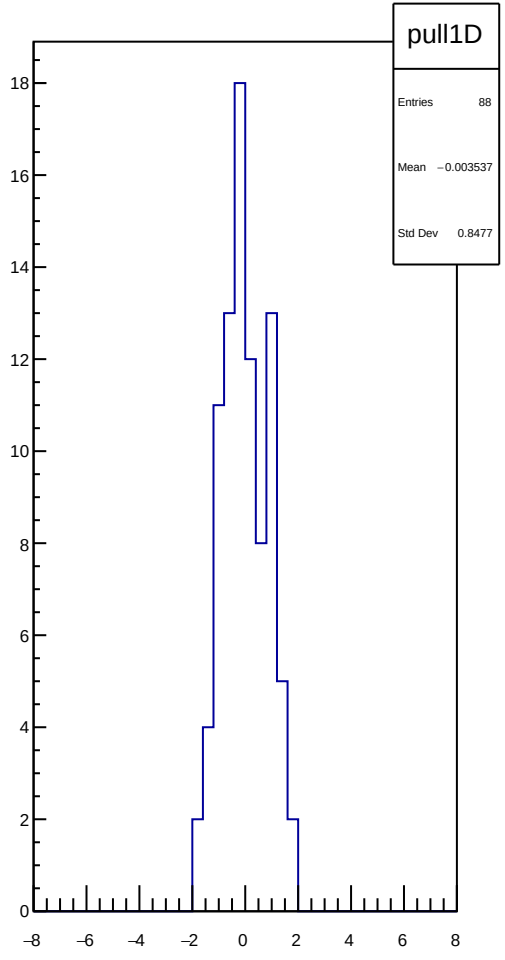

eigen_cor_asym_usl_rms vs run
χ^2 / ndf 68.12 / 87
p0 1079 ± 0.8334
1110
1100
1090
1080
1070
1060

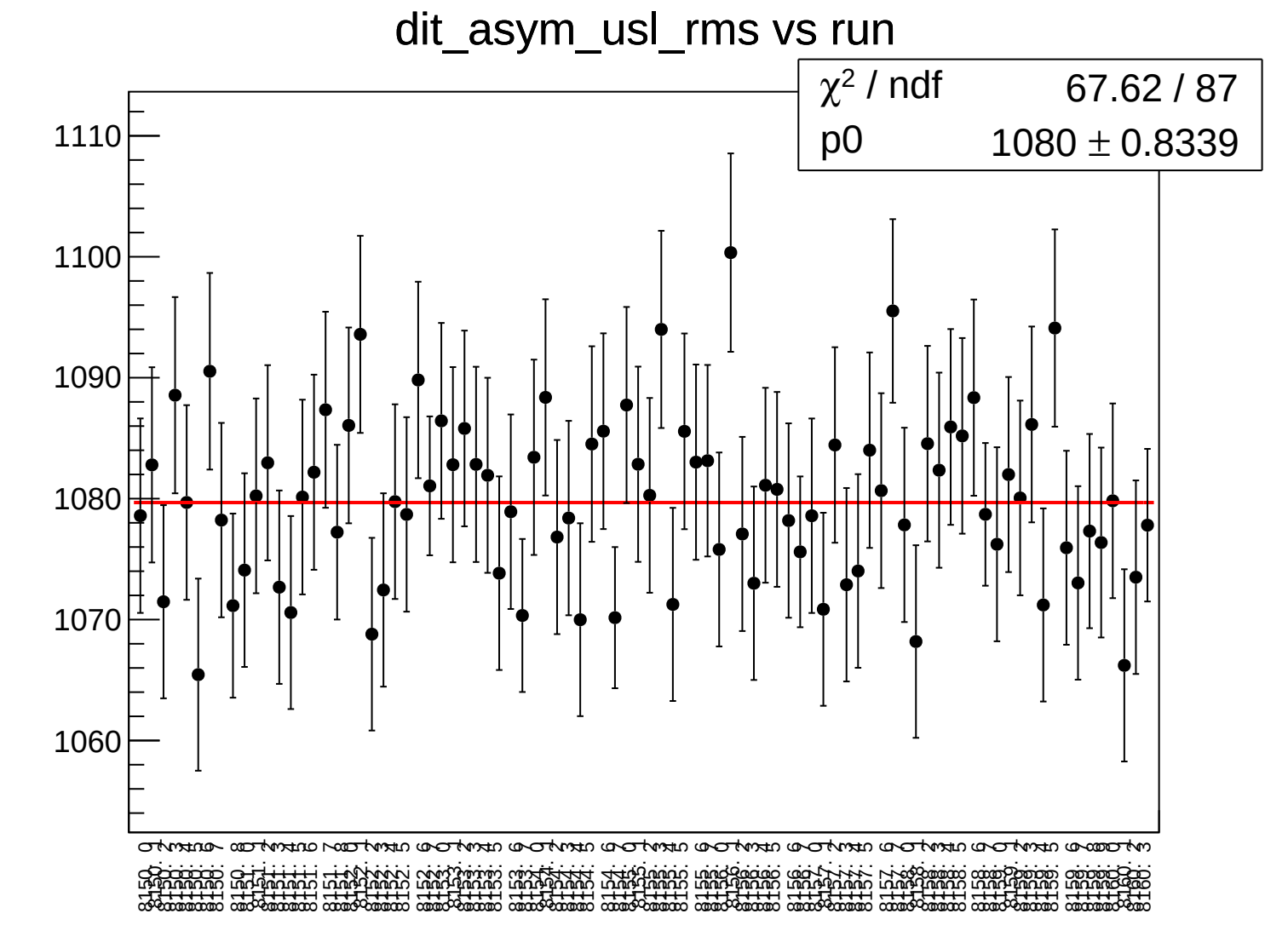

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 103.1 / 87
p0 −3940 ± 768
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 190.8
Std Dev 0
2
1
0
−1
−2

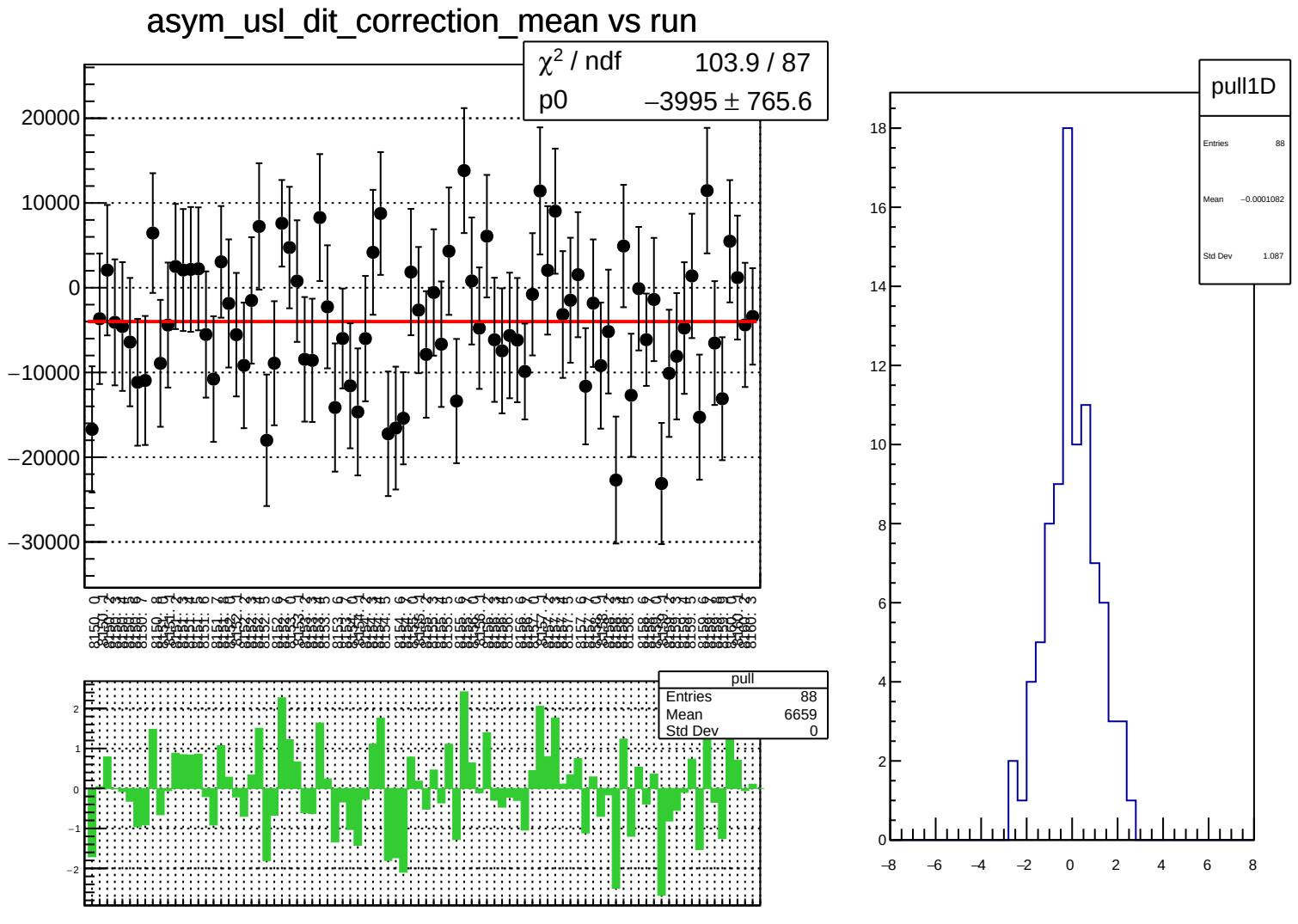

pull1D
Entries 88
Mean −0.005805
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

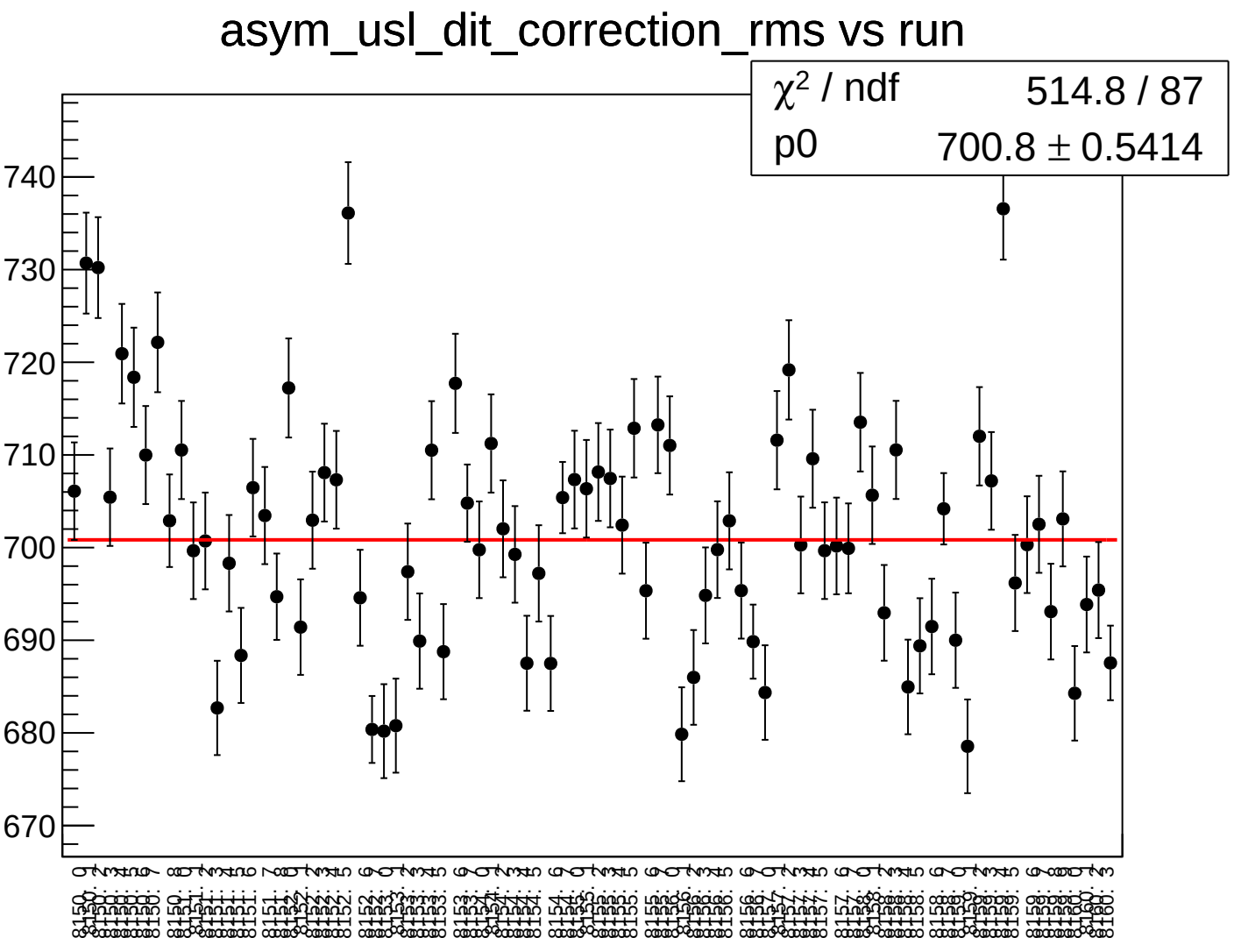

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 1571 / 87
p0 702.8 ± 0.5431
760
740
720
700
680
660

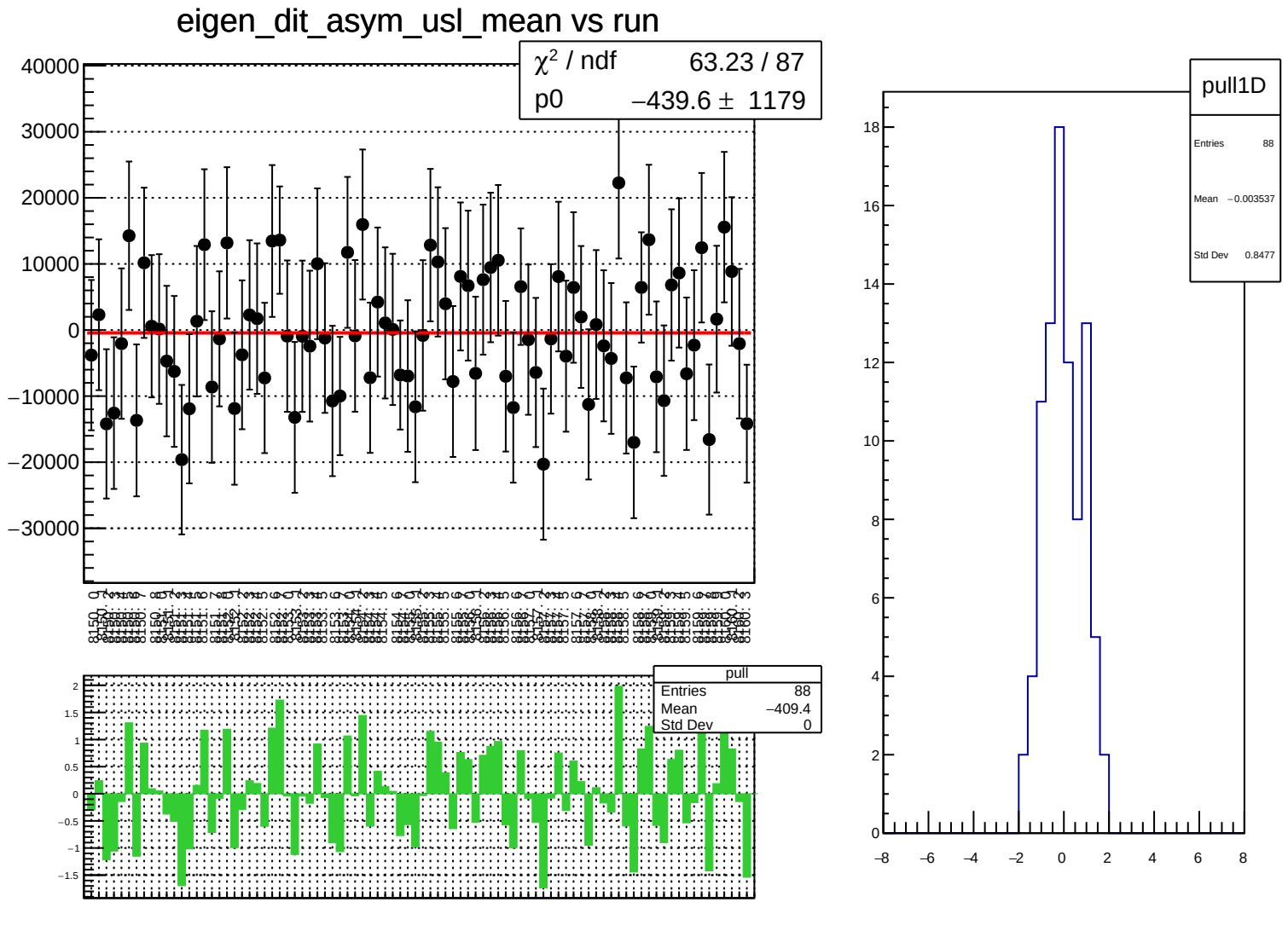

dit_asym_usl_mean vs run
χ² / ndf 63.23 / 87
p0 −439.6 ± 1179
pull
Entries 88
Mean −409.4
Std Dev 0

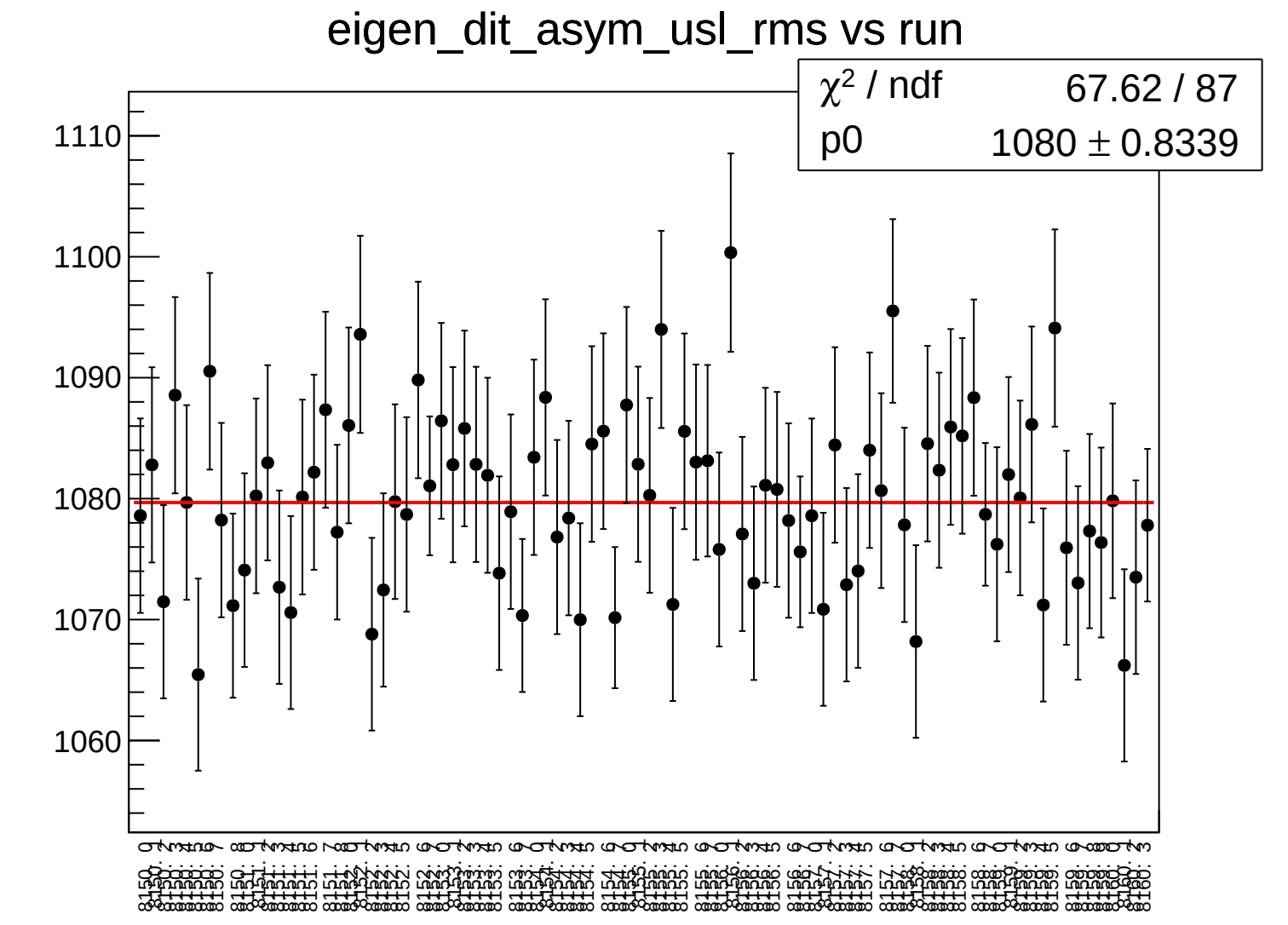

pull1D
Entries 88
Mean −0.003537
Std Dev 0.8477

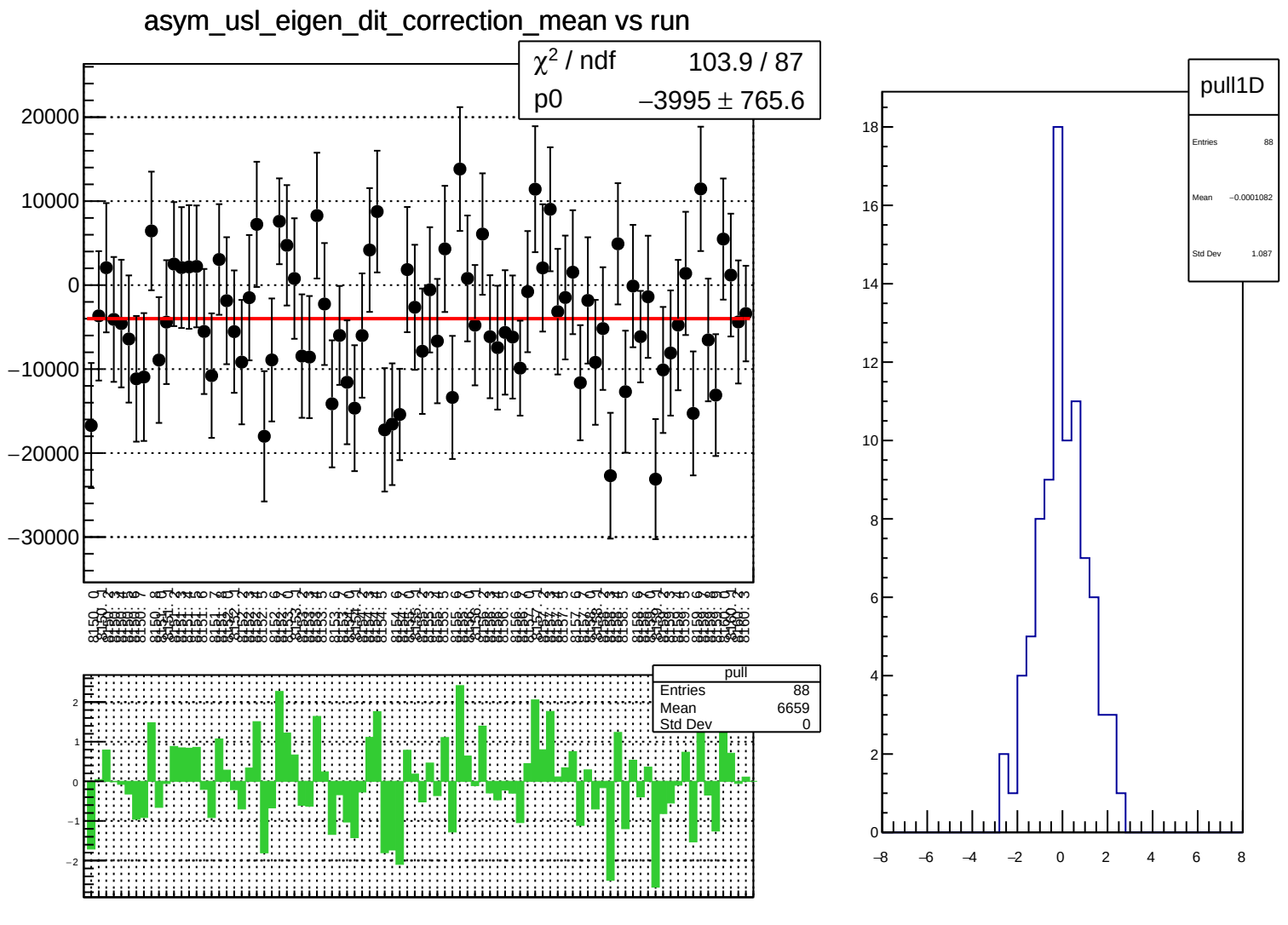

dit_asym_usl_rms vs run
χ² / ndf 67.62 / 87
p0 1080 ± 0.8339
1110
1100
1090
1080
1070
1060

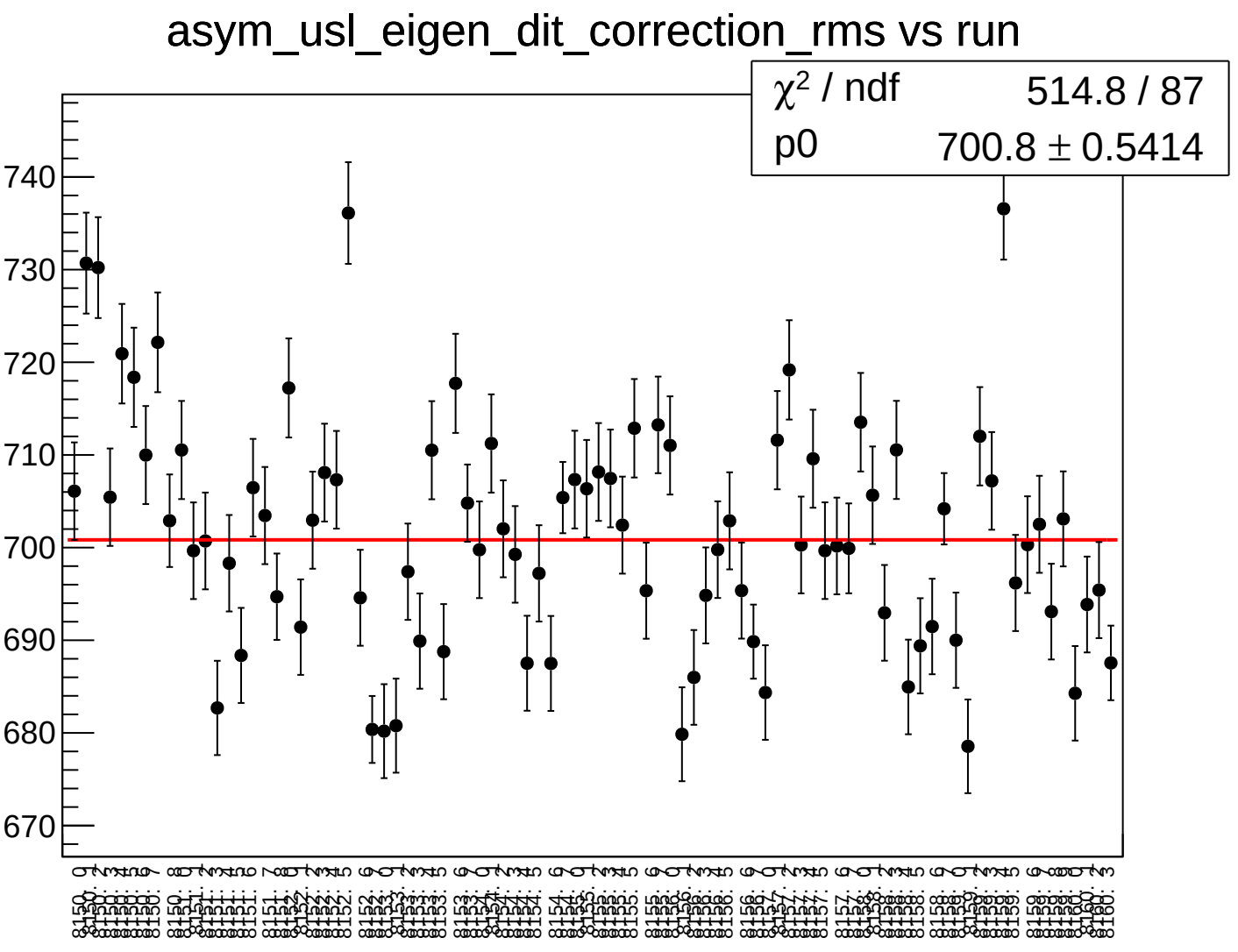

asym_usl_dit_correction_mean vs run
χ² / ndf 103.9 / 87
p0 −3995 ± 765.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 6659
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0001082
Std Dev 1.087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

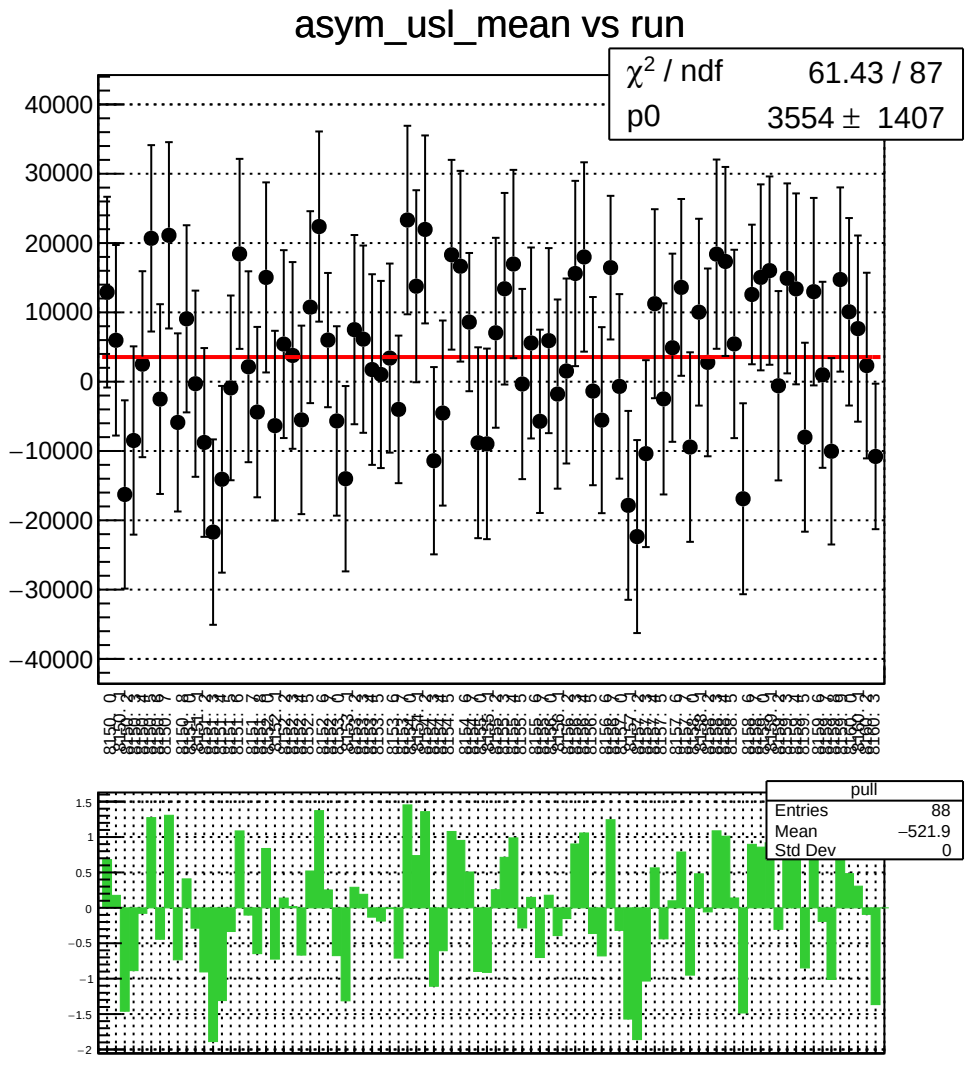

asym_usl_dit_correction_rms vs run
χ² / ndf 514.8 / 87
p0 700.8 ± 0.5414
740
730
720
710
700
690
680
670

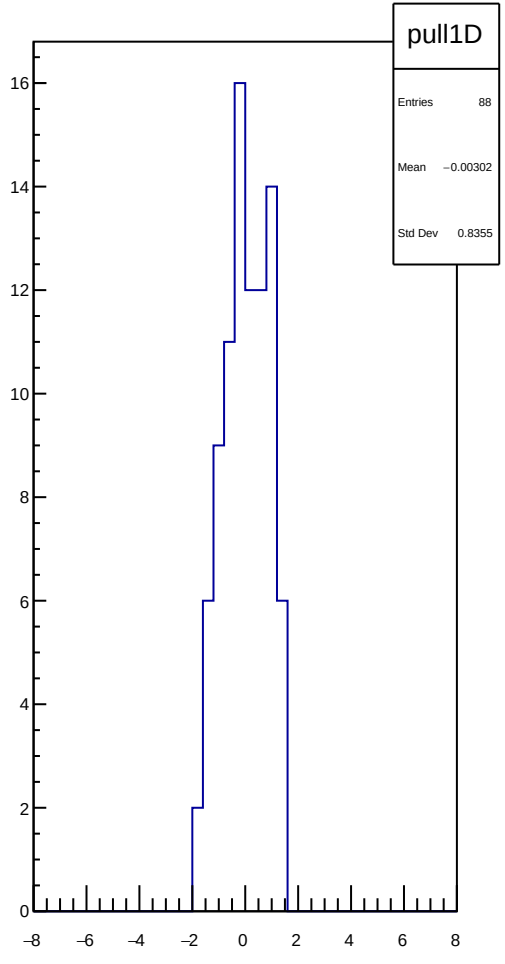

eigen_dit_asym_usl_mean vs run
χ² / ndf 63.23 / 87
p0 −439.6 ± 1179
pull
Entries 88
Mean −409.4
Std Dev 0
pull1D
Entries 88
Mean −0.003537
Std Dev 0.8477

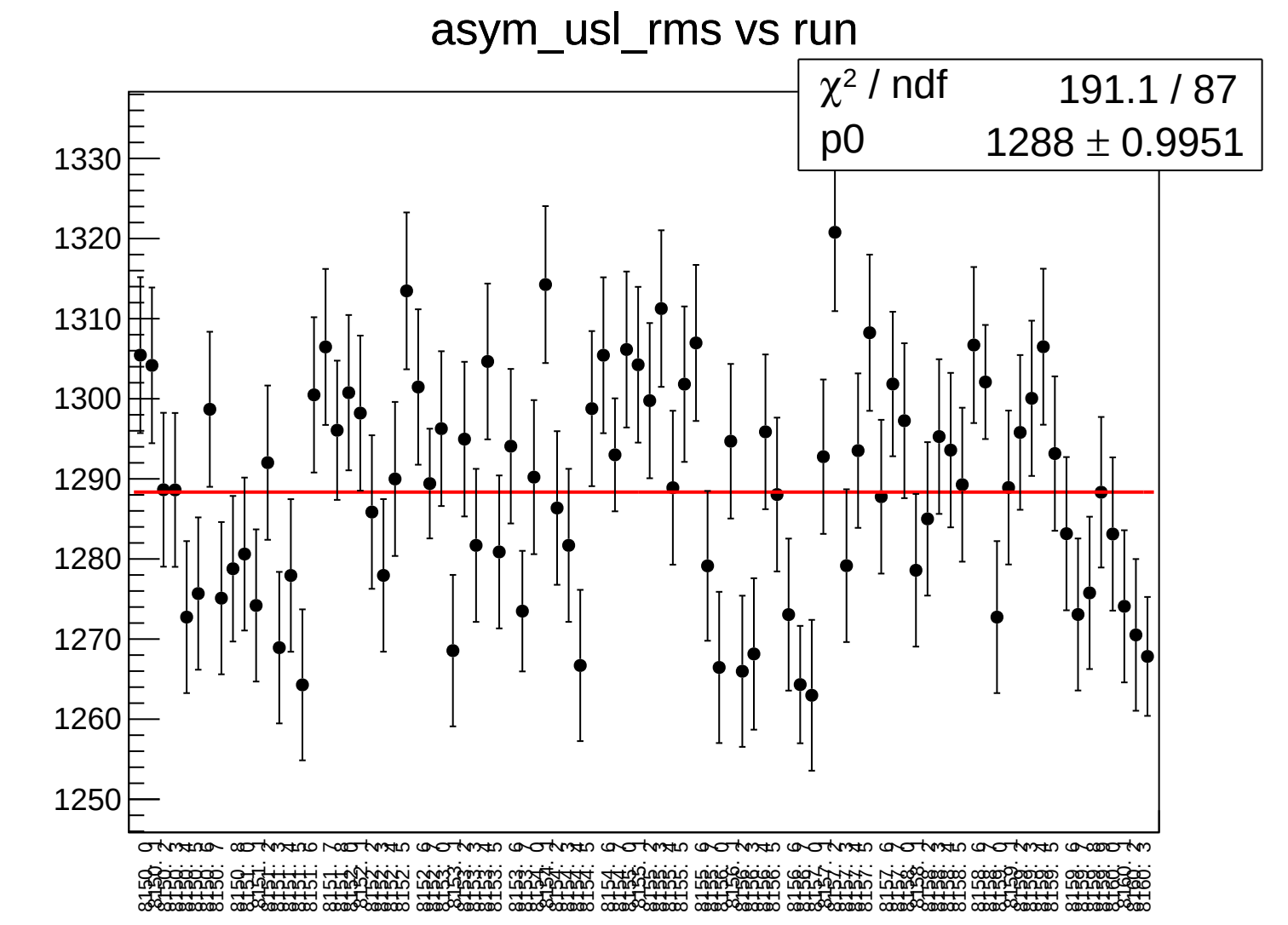

eigen_dit_asym_usl_rms vs run
χ^2 / ndf 67.62 / 87
p0 1080 ± 0.8339
1110
1100
1090
1080
1070
1060

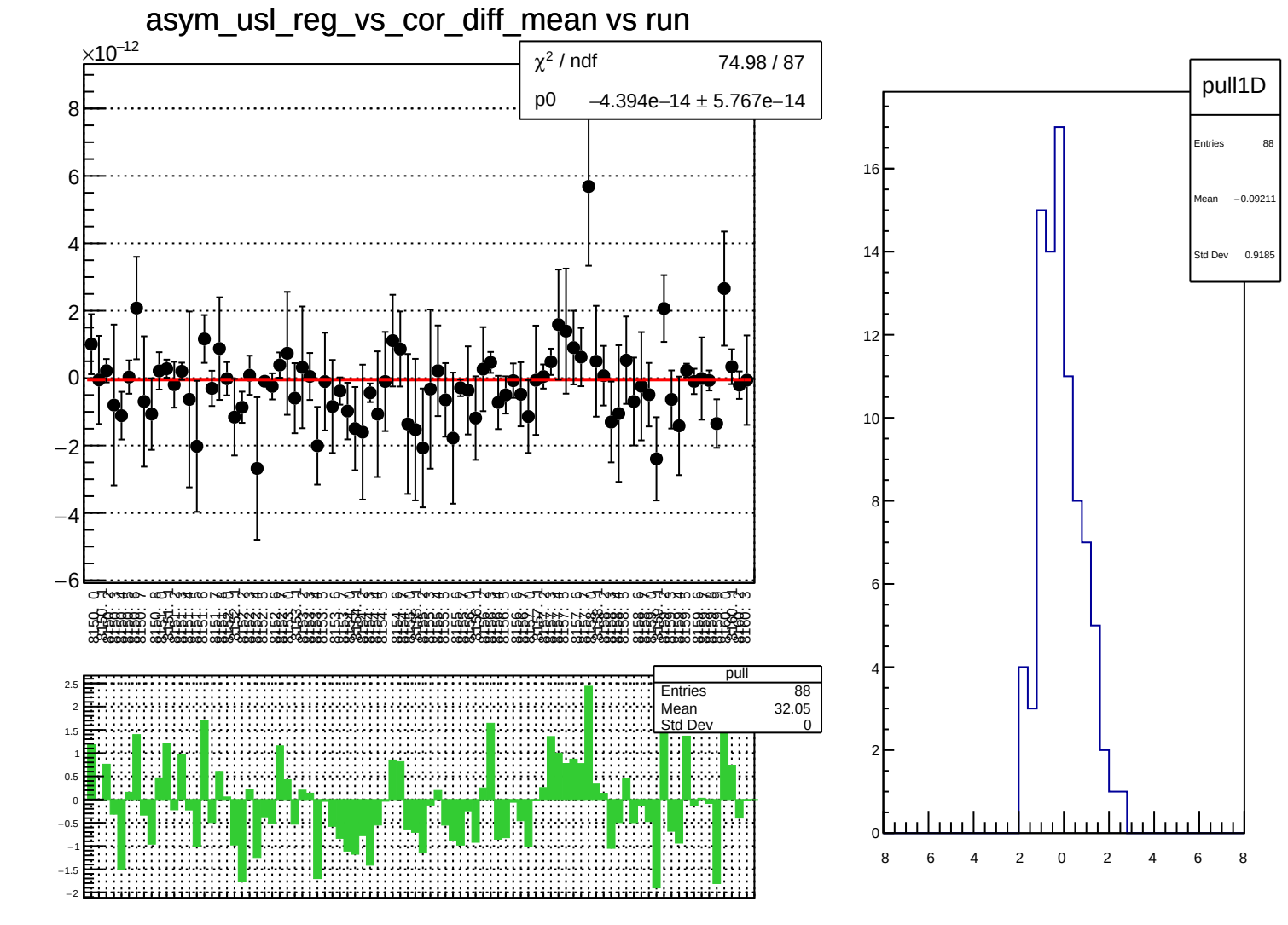

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 103.9 / 87
p0 −3995 ± 765.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 6659
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0001082
Std Dev 1.087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

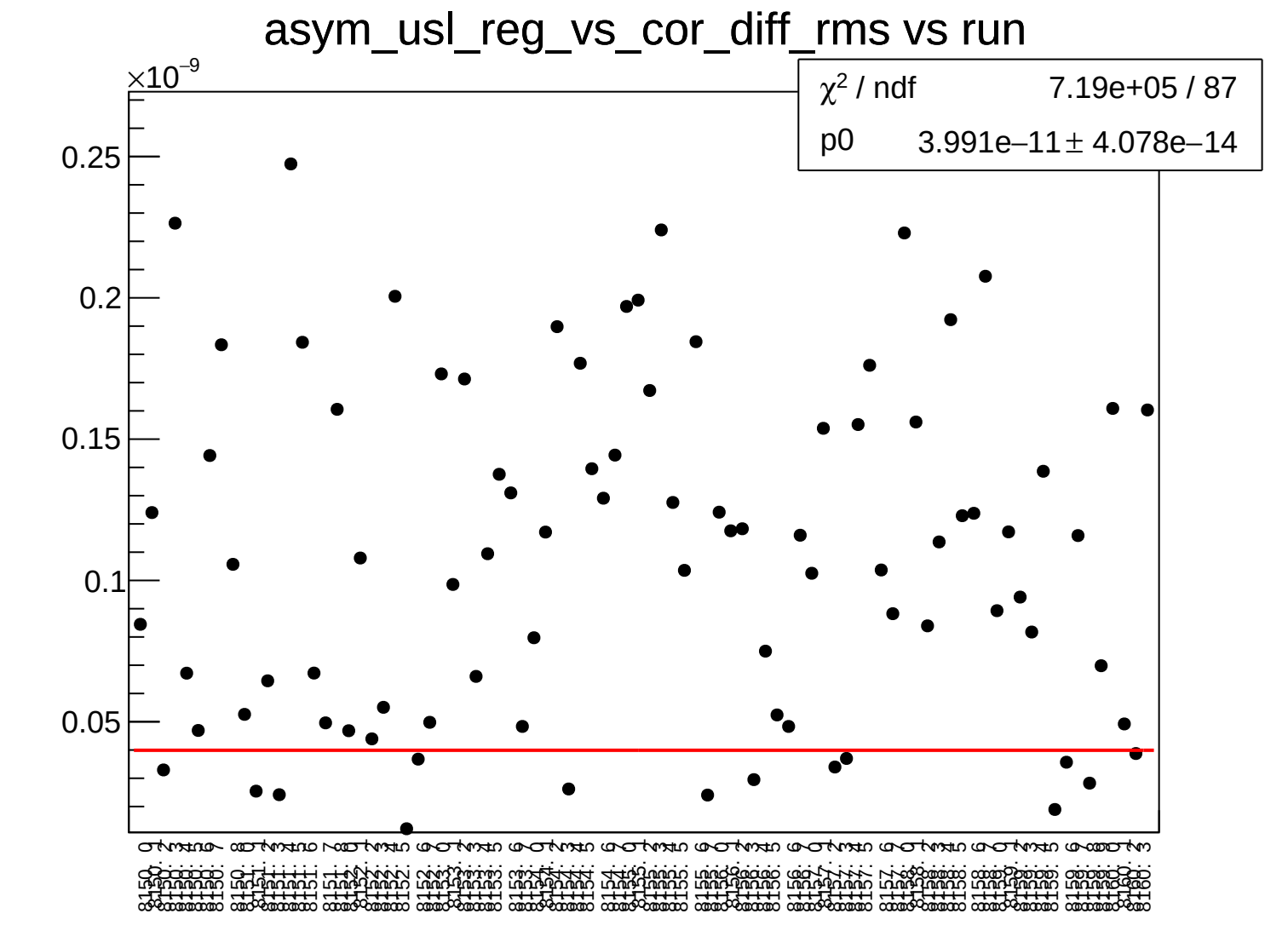

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 514.8 / 87
p0 700.8 ± 0.5414
740
730
720
710
700
690
680
670

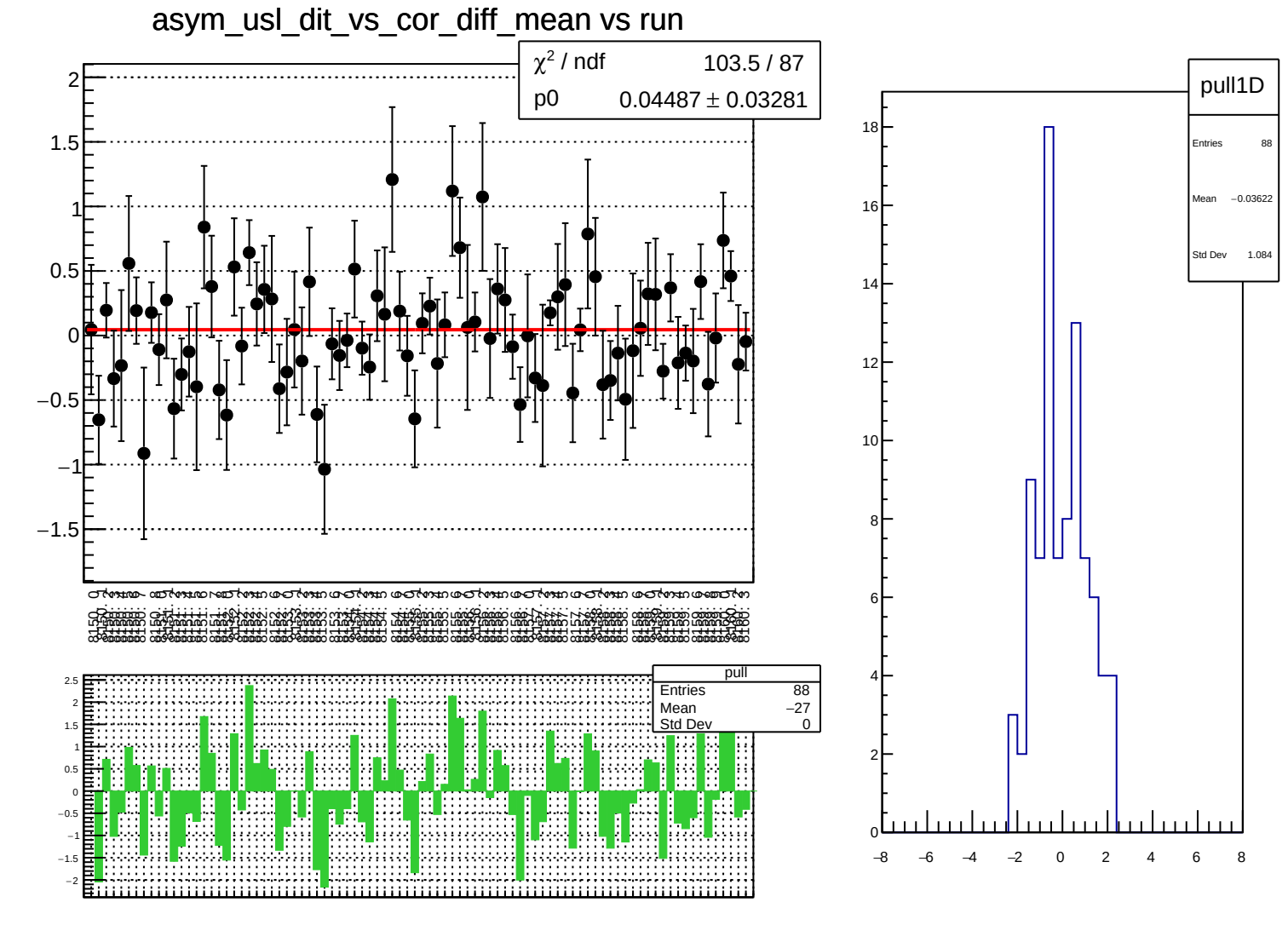

asym_usl_mean vs run
χ² / ndf 61.43 / 87
p0 3554 ± 1407
pull
Entries 88
Mean −521.9
Std Dev 0

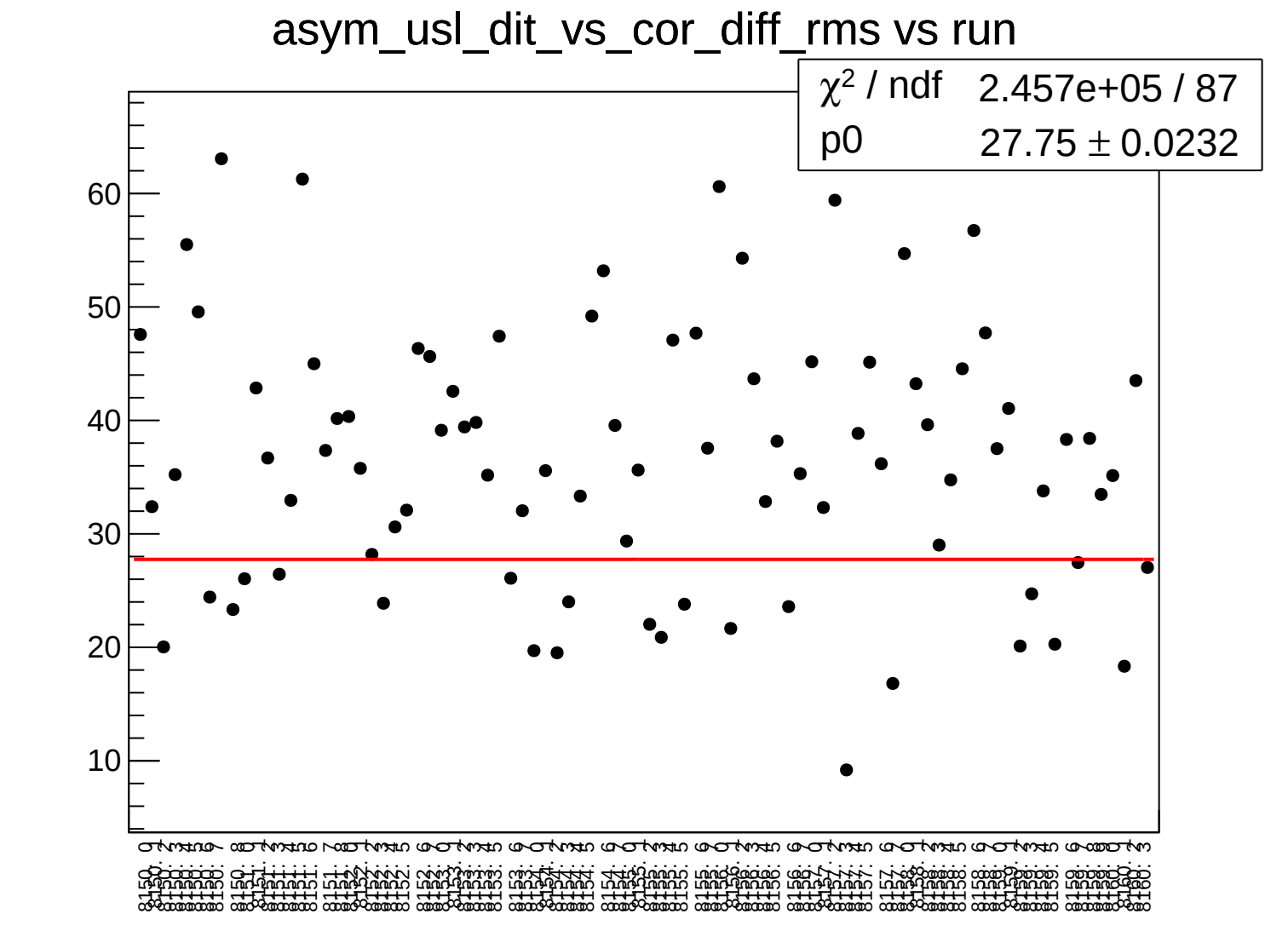

pull1D
Entries 88
Mean −0.00302
Std Dev 0.8355

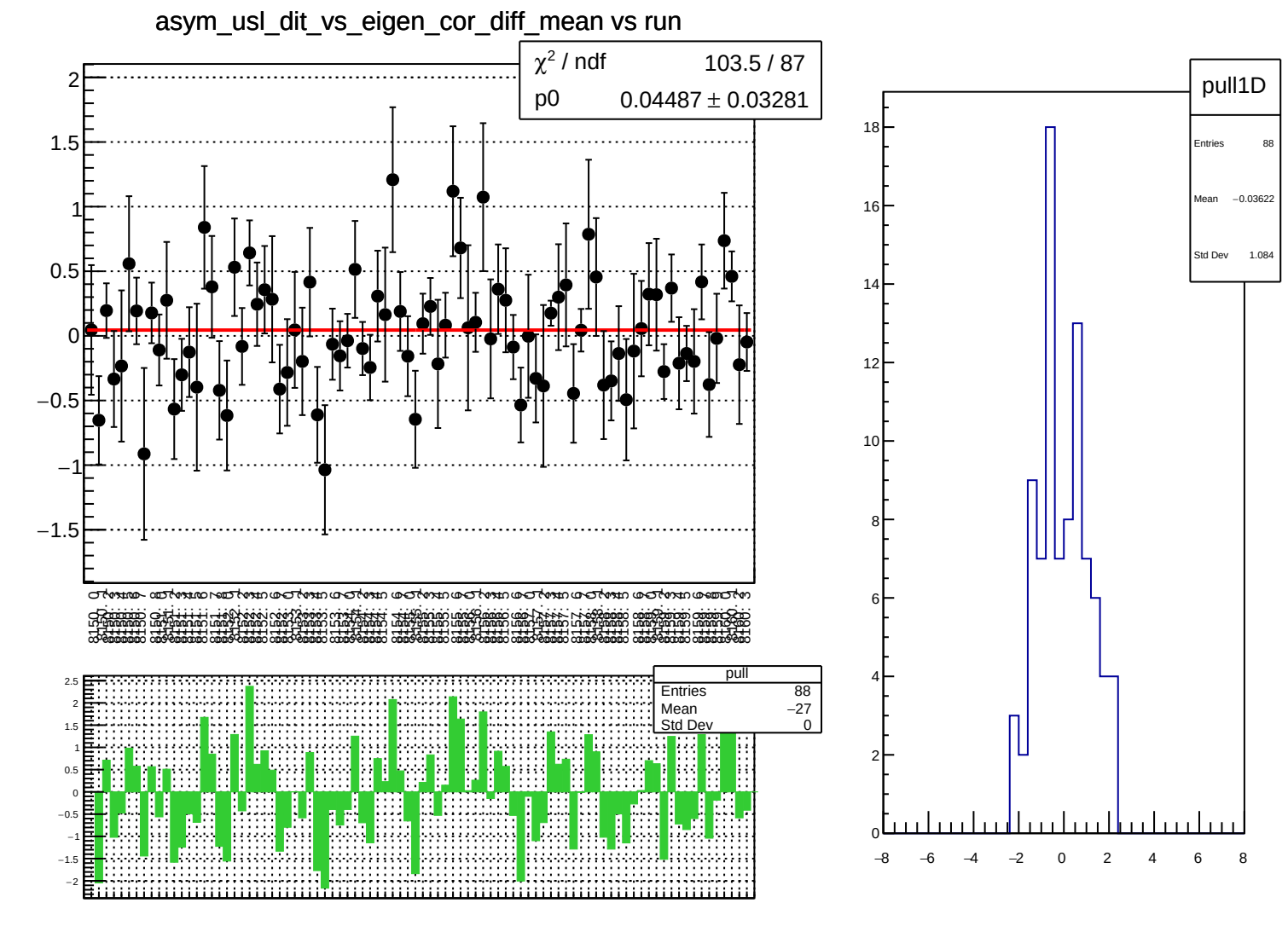

asym_usl_rms vs run
χ² / ndf 191.1 / 87
p0 1288 ± 0.9951
1330
1320
1310
1300
1290
1280
1270
1260
1250

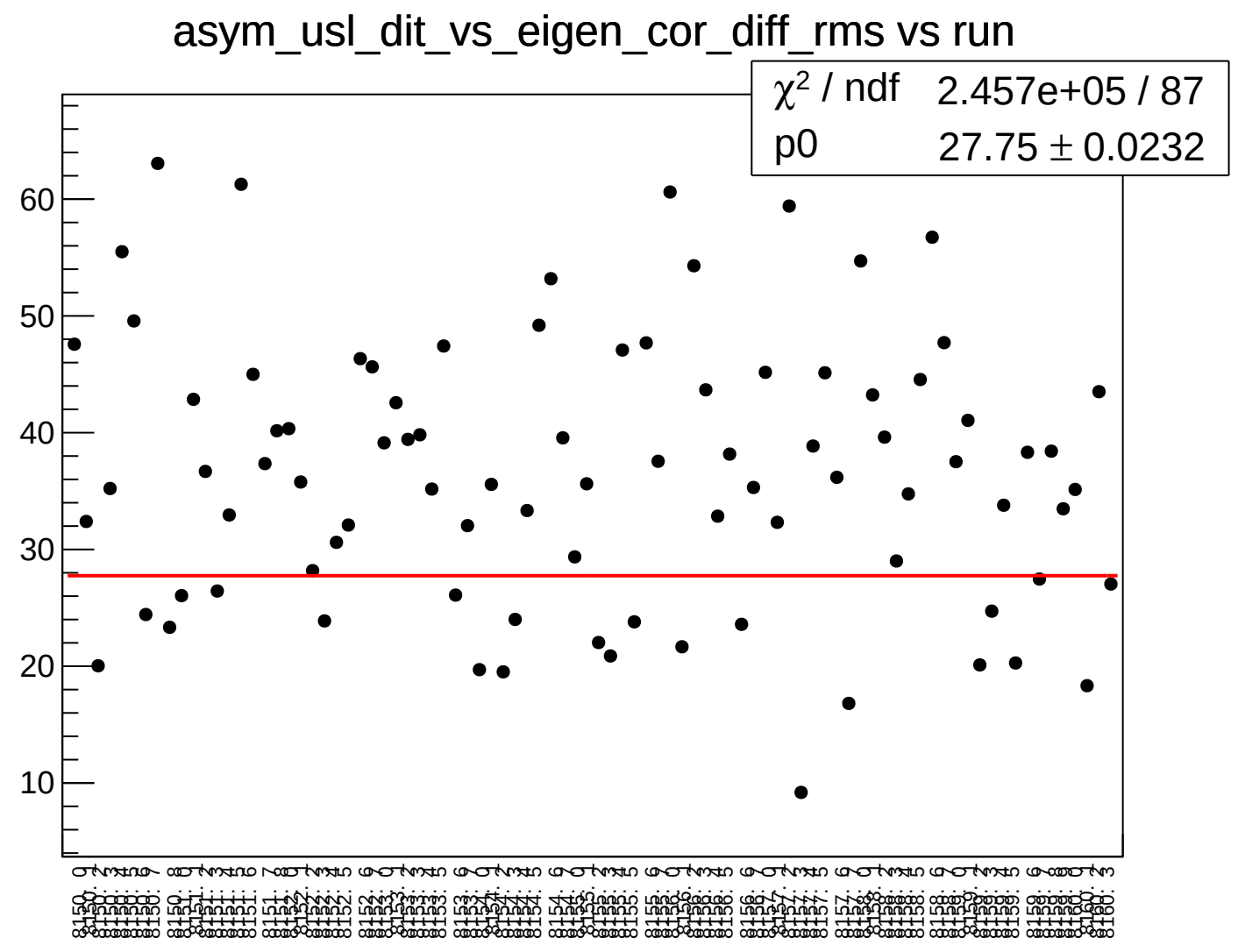

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.98 / 87
p0 −4.394e−14 ± 5.767e−14
pull
Entries 88
Mean 32.05
Std Dev 0
pull1D
Entries 88
Mean −0.09211
Std Dev 0.9185

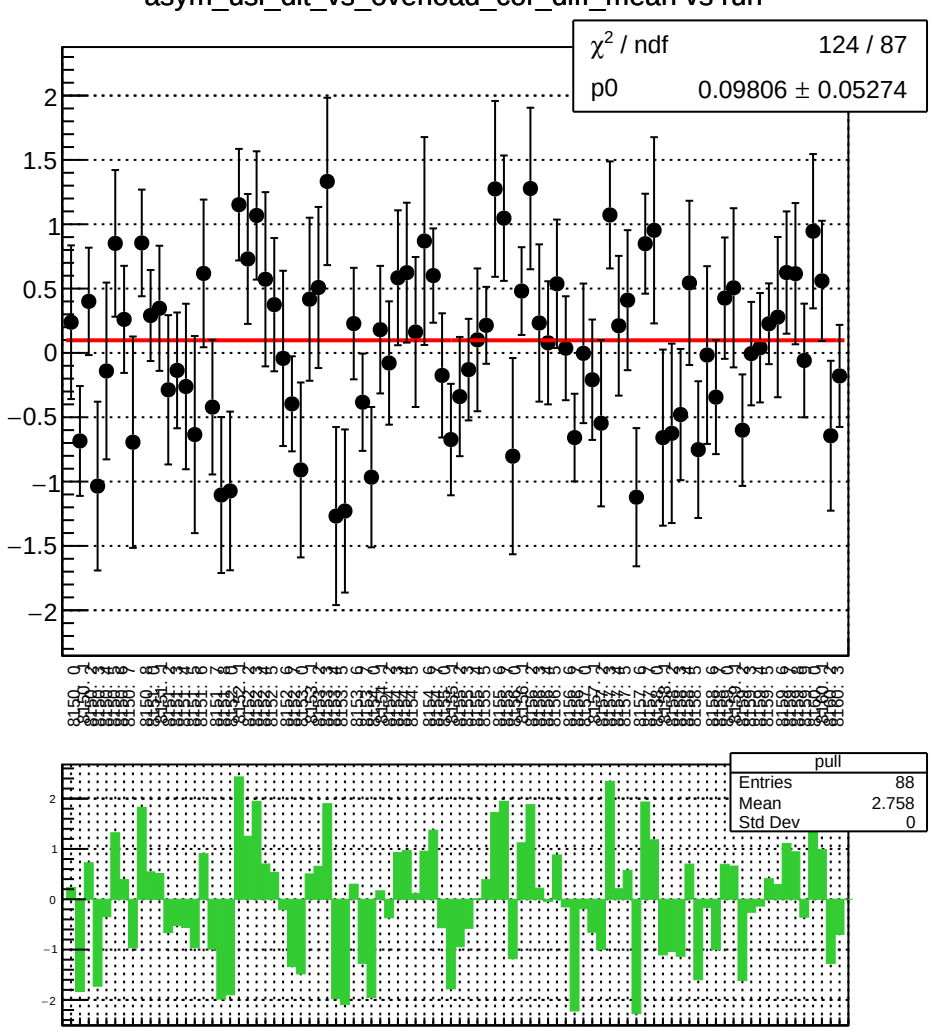

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.19e+05 / 87
p0 3.991e−11 ± 4.078e−14
0.25
0.2
0.15
0.1
0.05

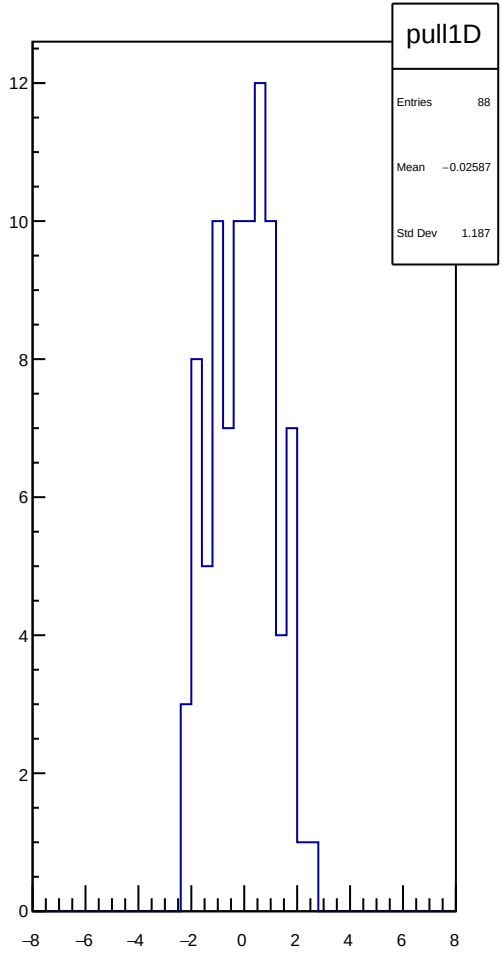

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 103.5 / 87
p0 0.04487 ± 0.03281
pull
Entries 88
Mean −27
Std Dev 0
pull1D
Entries 88
Mean −0.03622
Std Dev 1.084

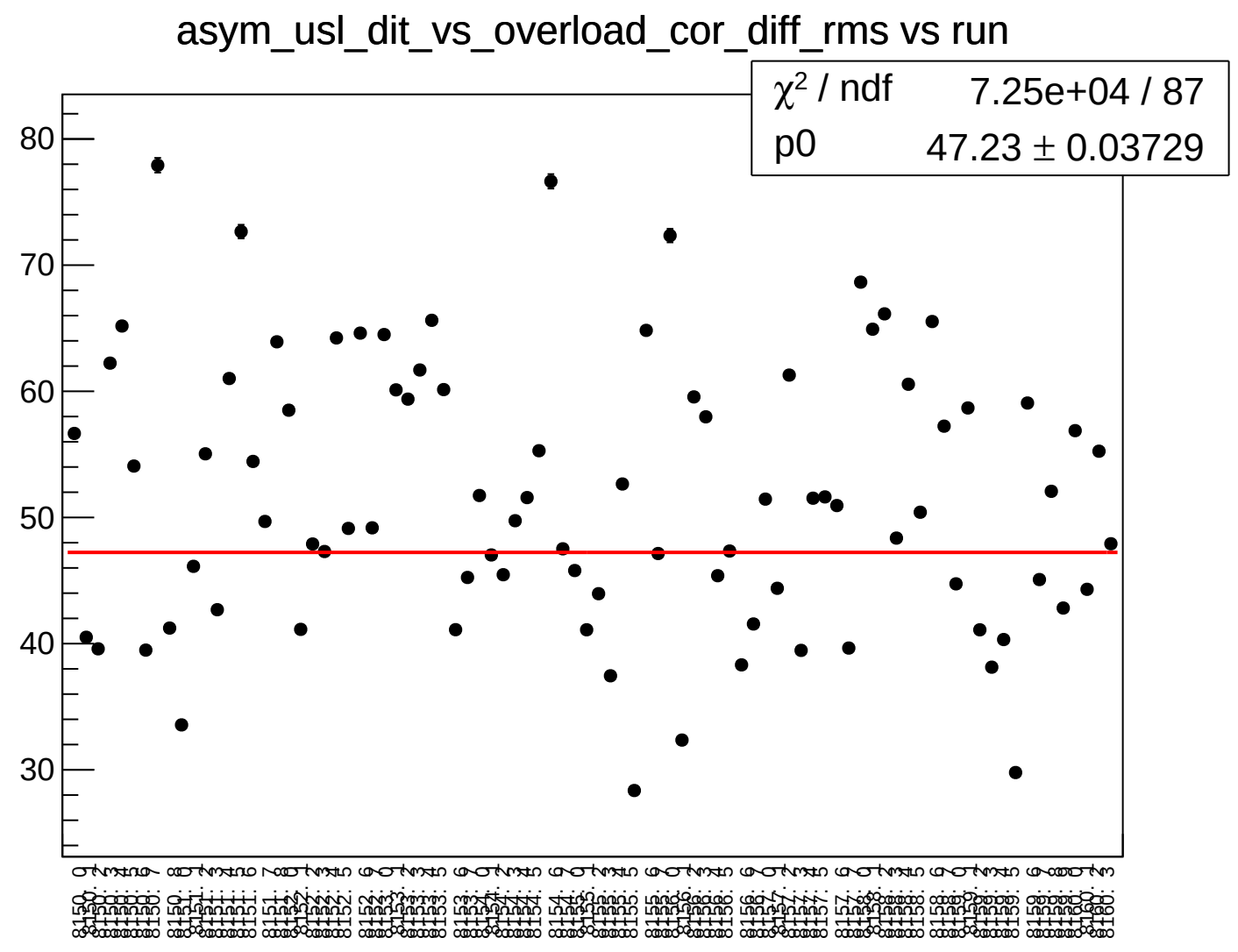

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 2.457e+05 / 87
p0 27.75 ± 0.0232
60
50
40
30
20
10

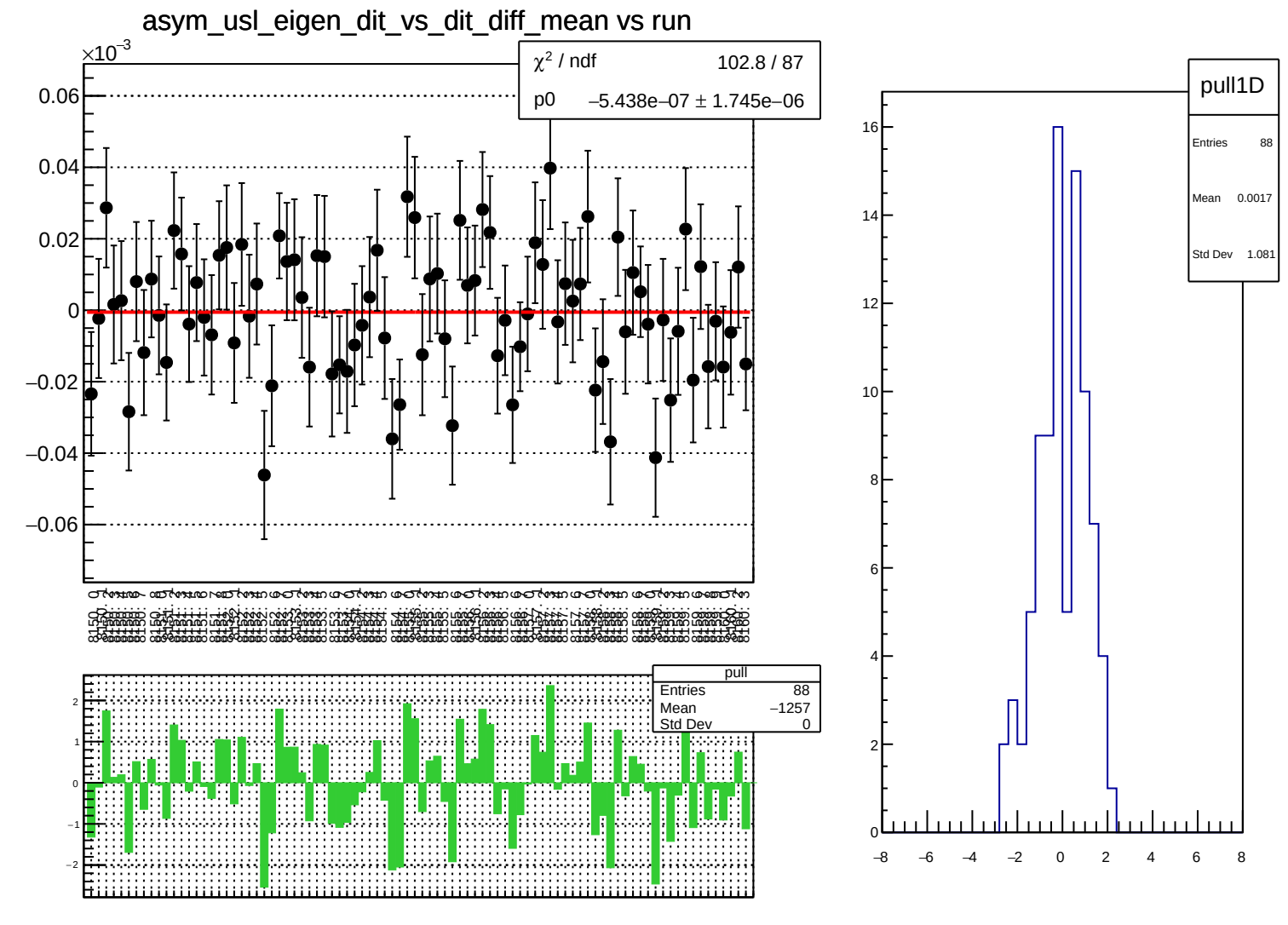

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.5 / 87
p0 0.04487 ± 0.03281
pull
Entries 88
Mean −27
Std Dev 0
pull1D
Entries 88
Mean −0.03622
Std Dev 1.084

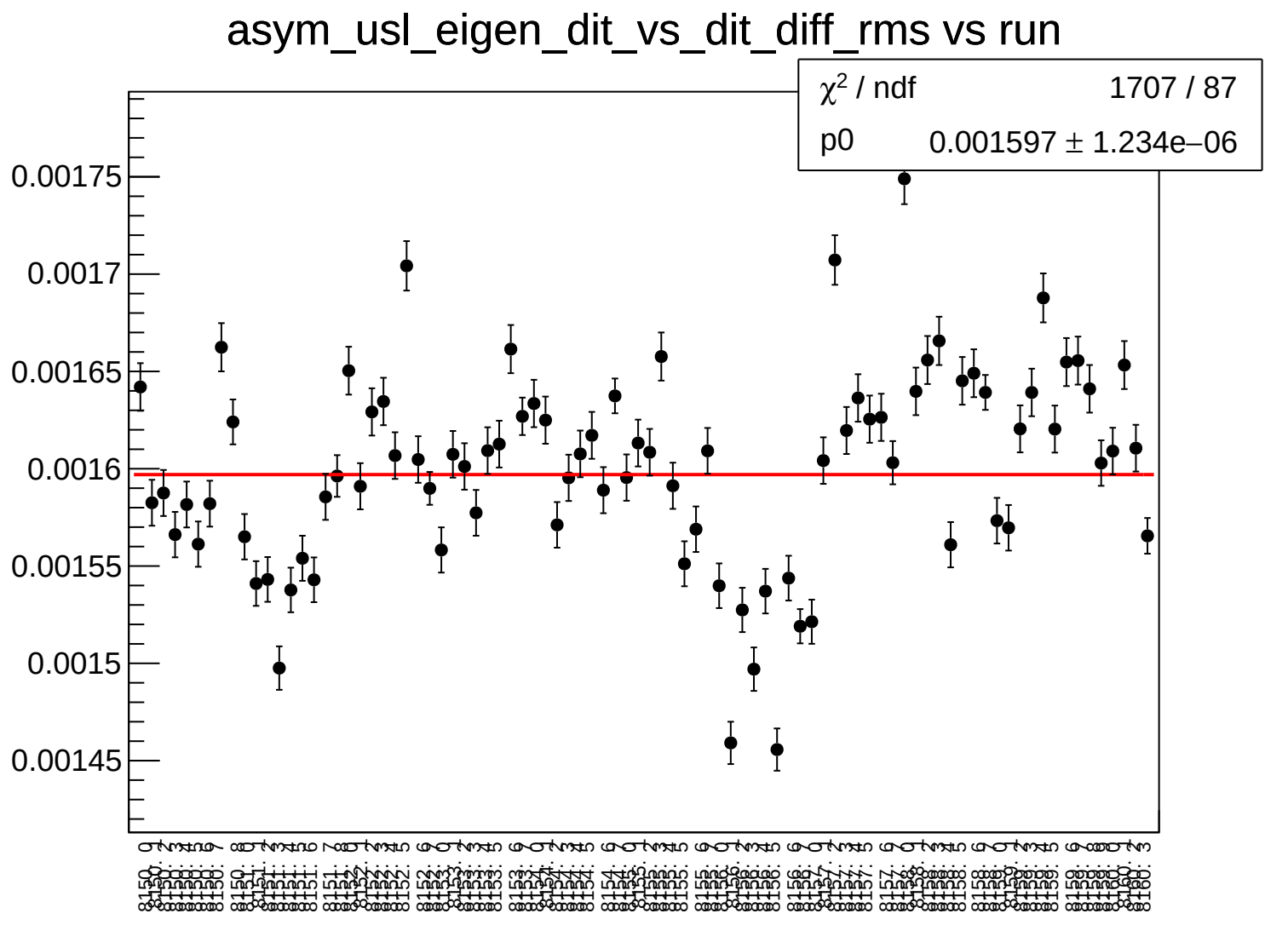

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.457e+05 / 87
p0 27.75 ± 0.0232
60
50
40
30
20
10

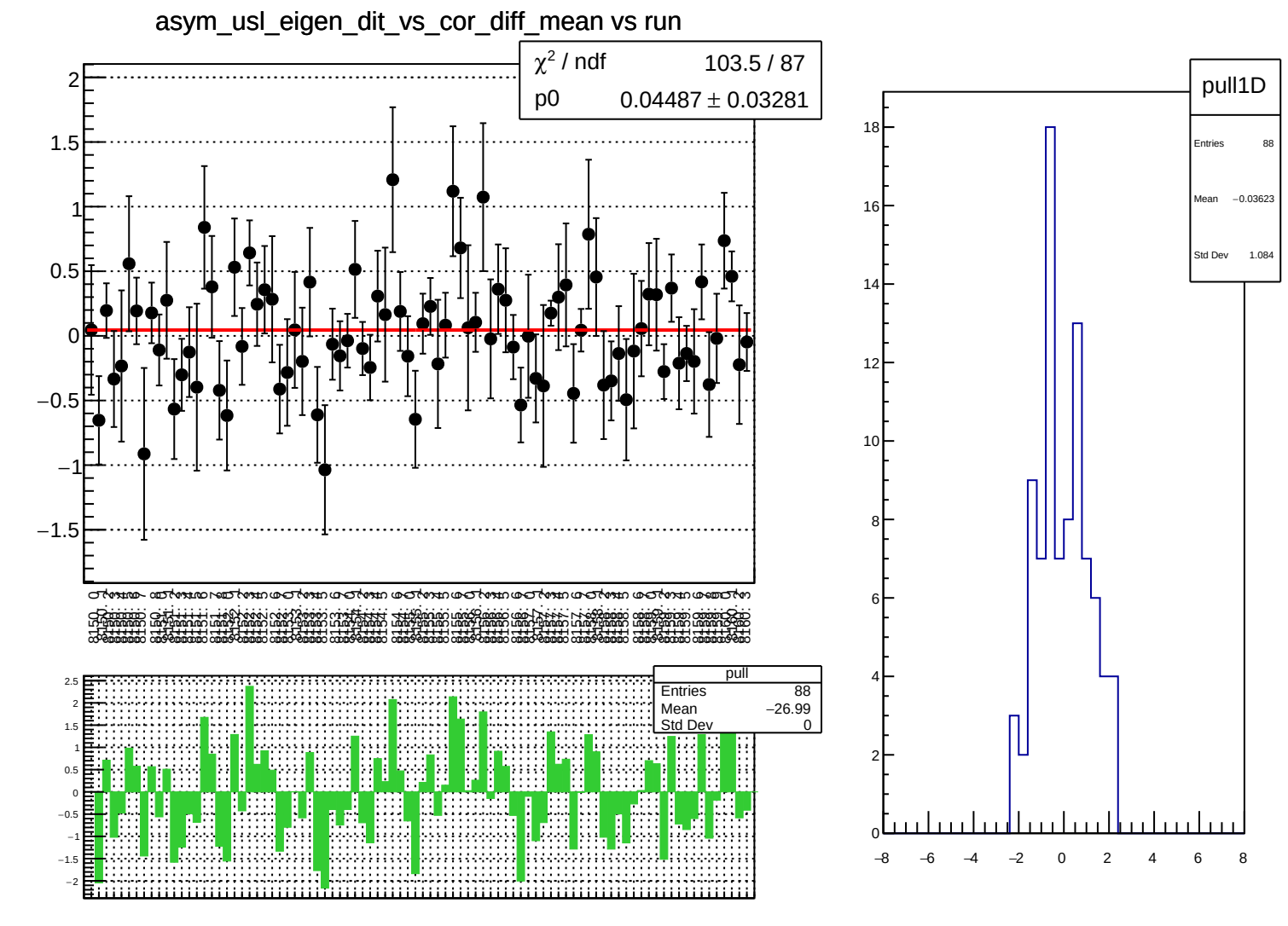

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 124 / 87
p0 0.09806 ± 0.05274
pull
Entries 88
Mean 2.758
Std Dev 0

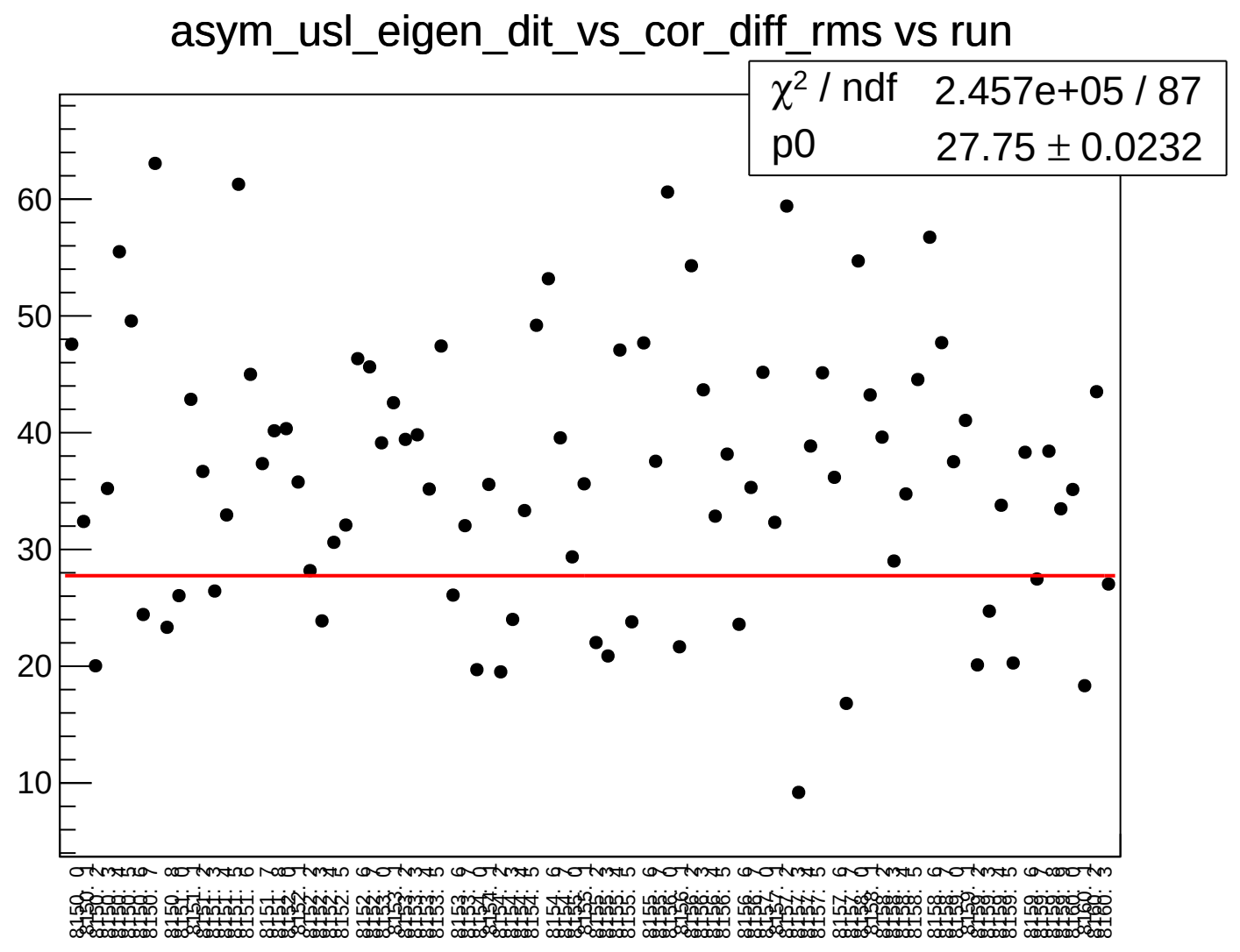

pull1D
Entries 88
Mean −0.02587
Std Dev 1.187

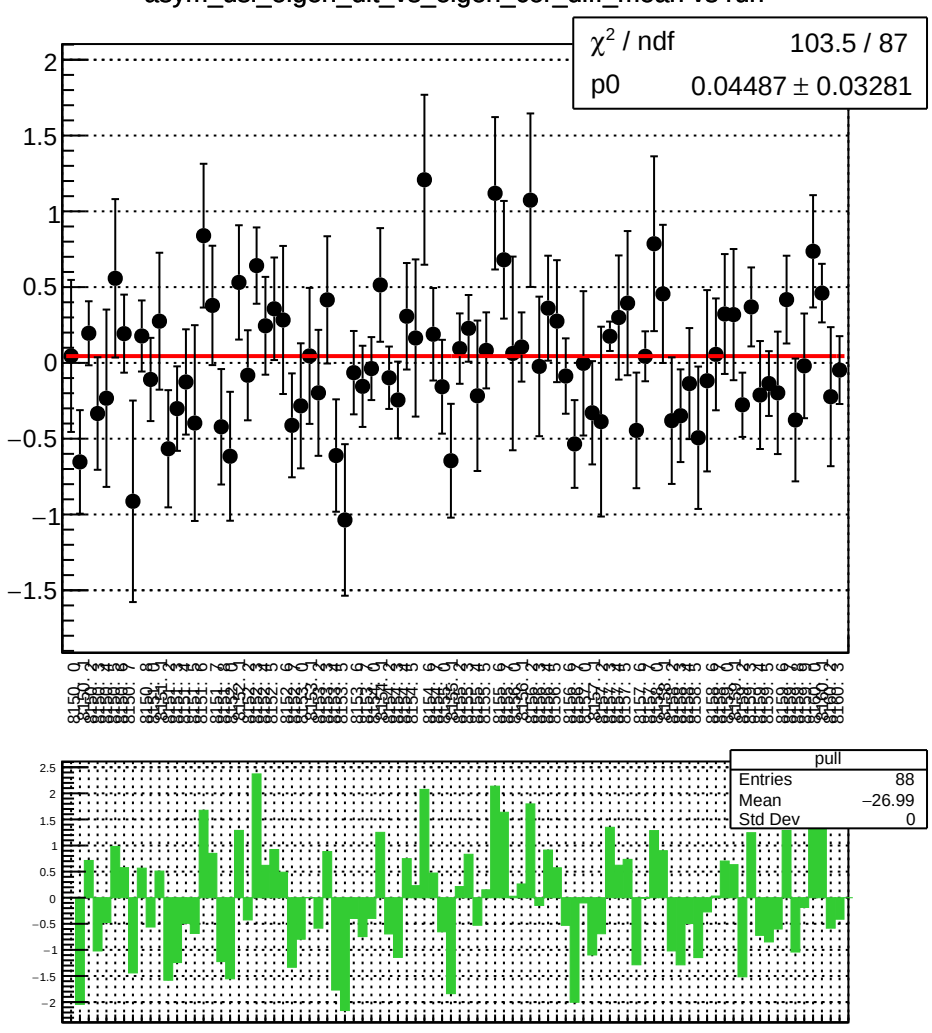

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.25e+04 / 87
p0 47.23 ± 0.03729
80
70
60
50
40
30

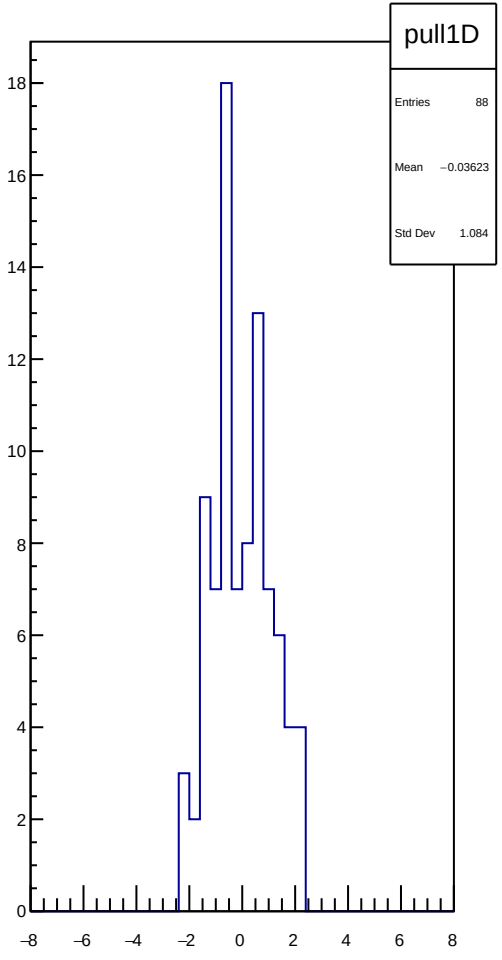

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.8 / 87
p0 −5.438e−07 ± 1.745e−06
pull
Entries 88
Mean −1257
Std Dev 0
pull1D
Entries 88
Mean 0.0017
Std Dev 1.081

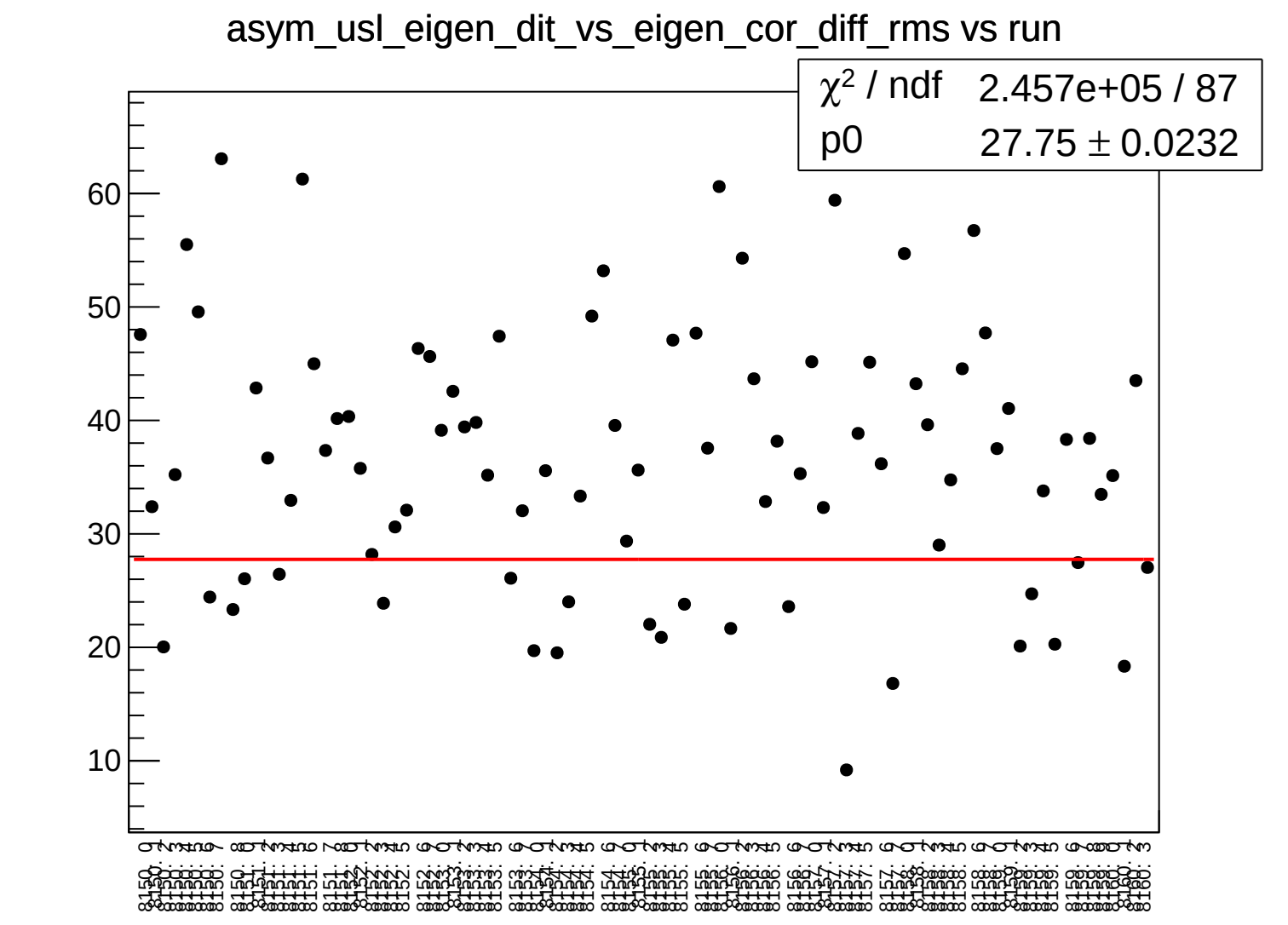

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1707 / 87
p0 0.001597 ± 1.234e−06
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145

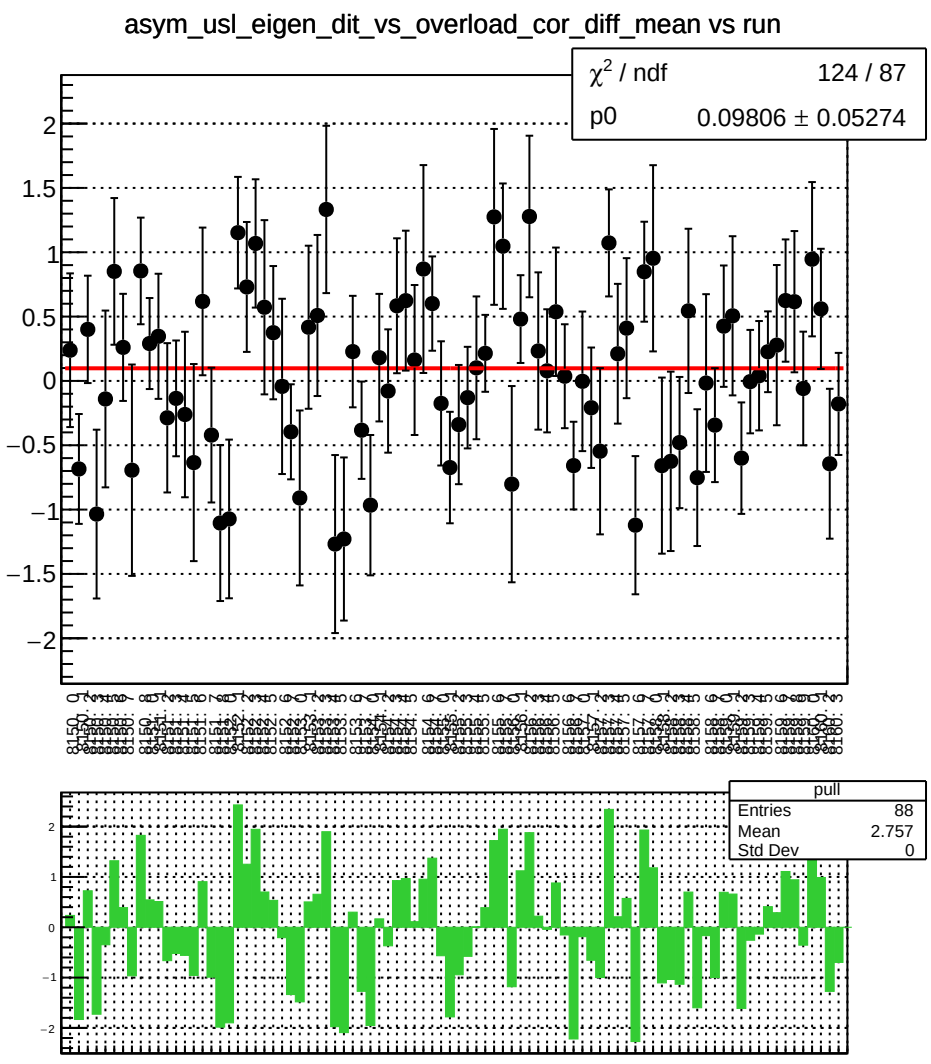

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.5 / 87
p0 0.04487 ± 0.03281
pull
Entries 88
Mean −26.99
Std Dev 0
pull1D
Entries 88
Mean −0.03623
Std Dev 1.084

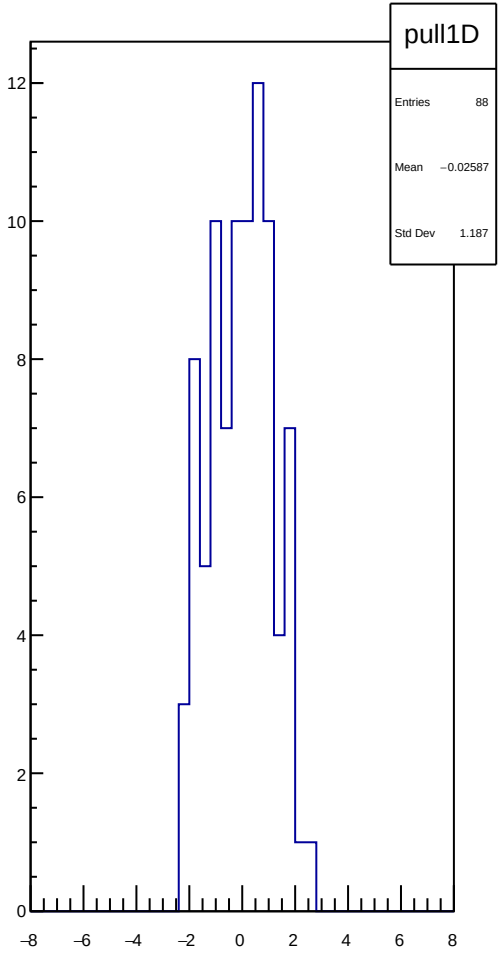

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.457e+05 / 87
p0 27.75 ± 0.0232
60
50
40
30
20
10

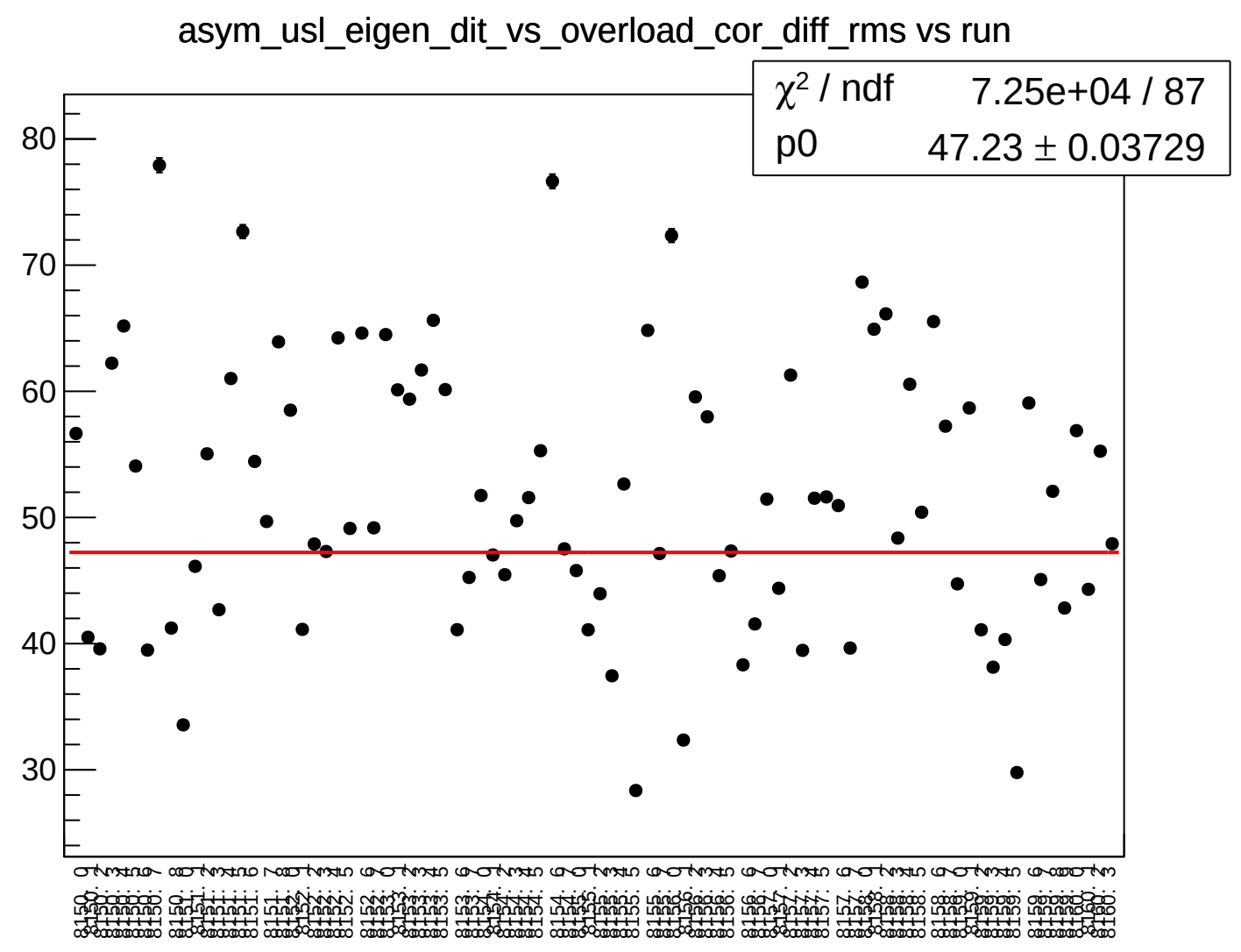

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.5 / 87
p0 0.04487 ± 0.03281
pull
Entries 88
Mean −26.99
Std Dev 0

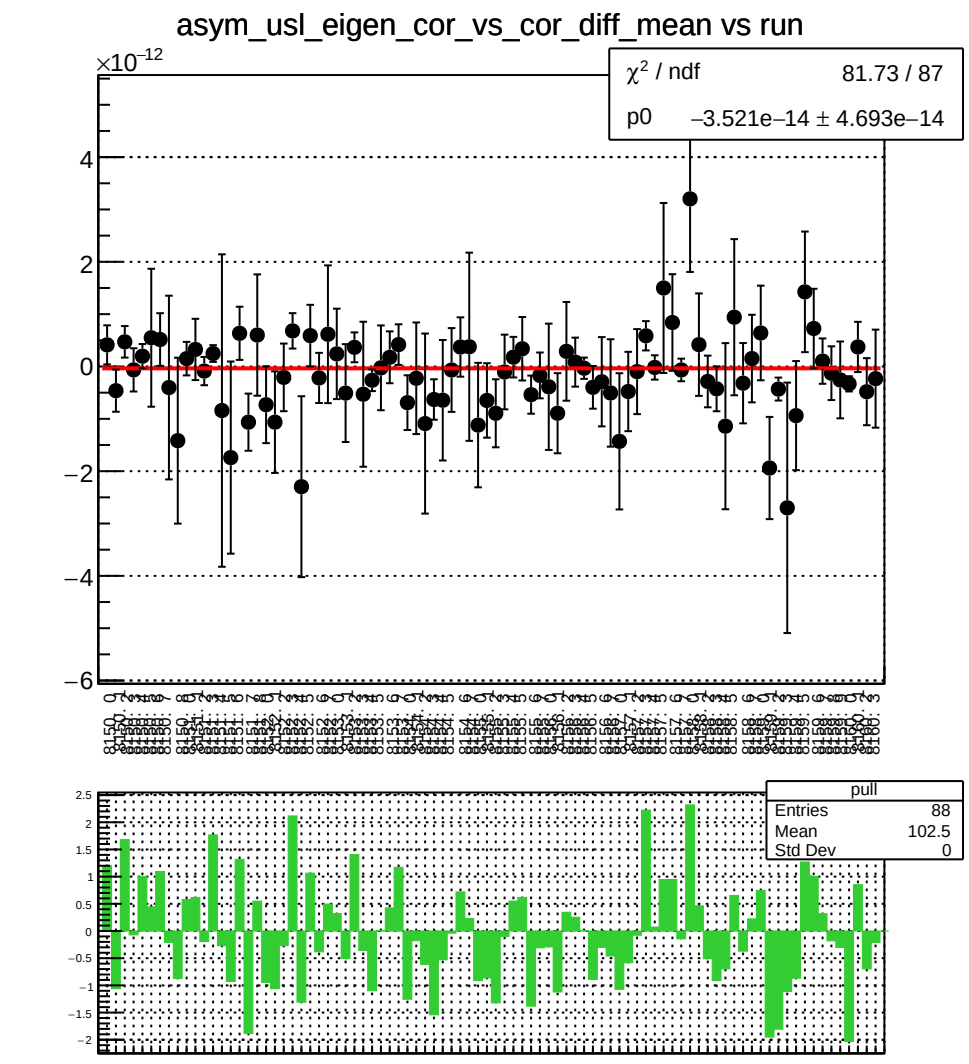

pull1D
Entries 88
Mean −0.03623
Std Dev 1.084

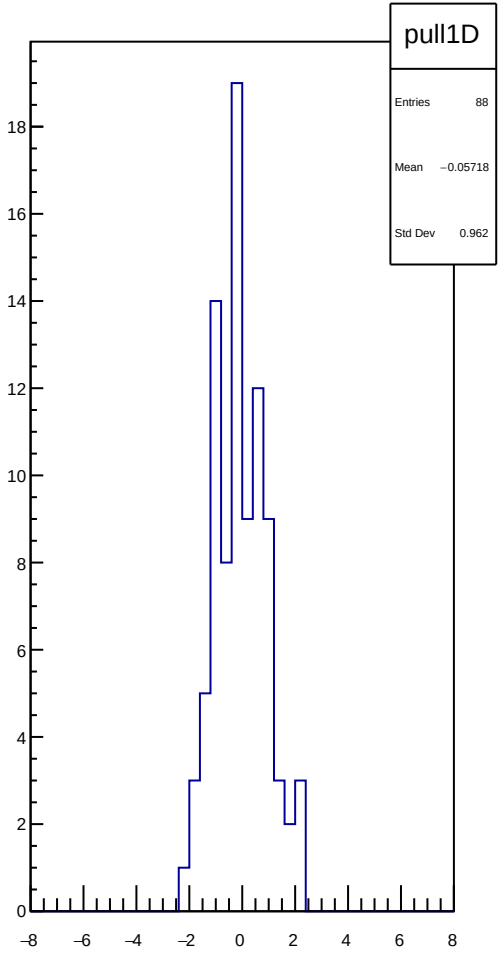

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.457e+05 / 87
p0 27.75 ± 0.0232
60
50
40
30
20
10

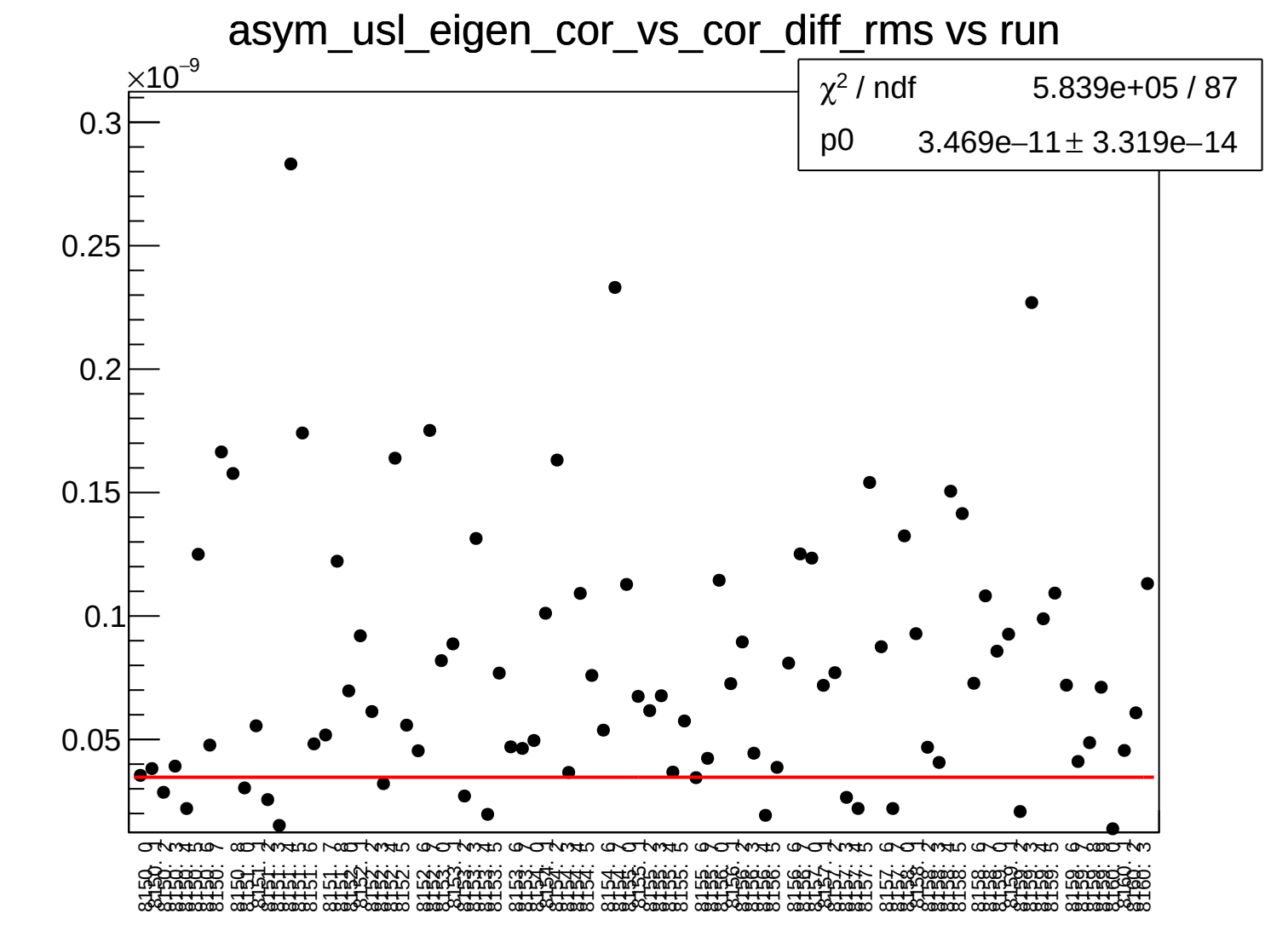

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 124 / 87
p0 0.09806 ± 0.05274
pull
Entries 88
Mean 2.757
Std Dev 0

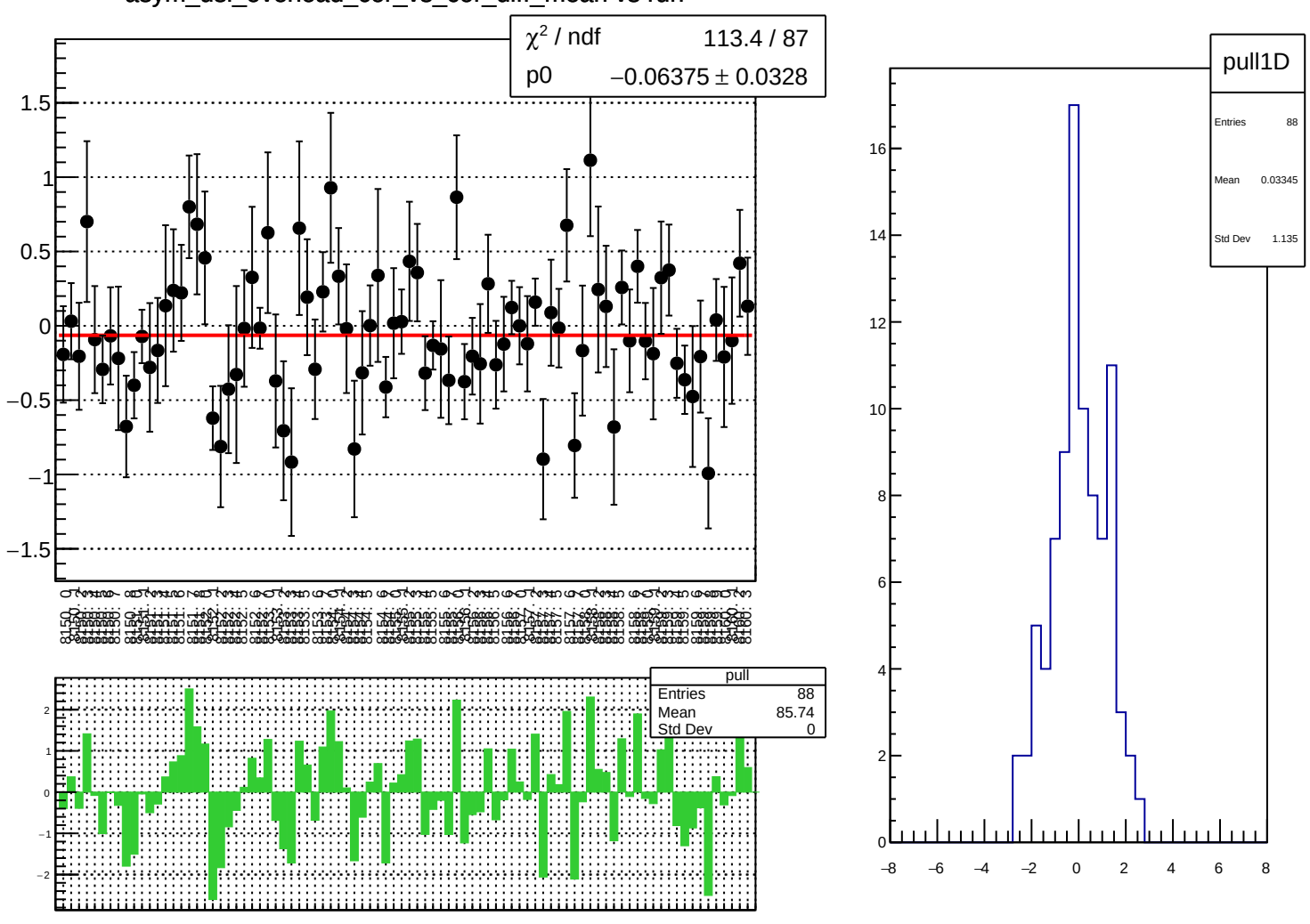

pull1D
Entries 88
Mean −0.02587
Std Dev 1.187

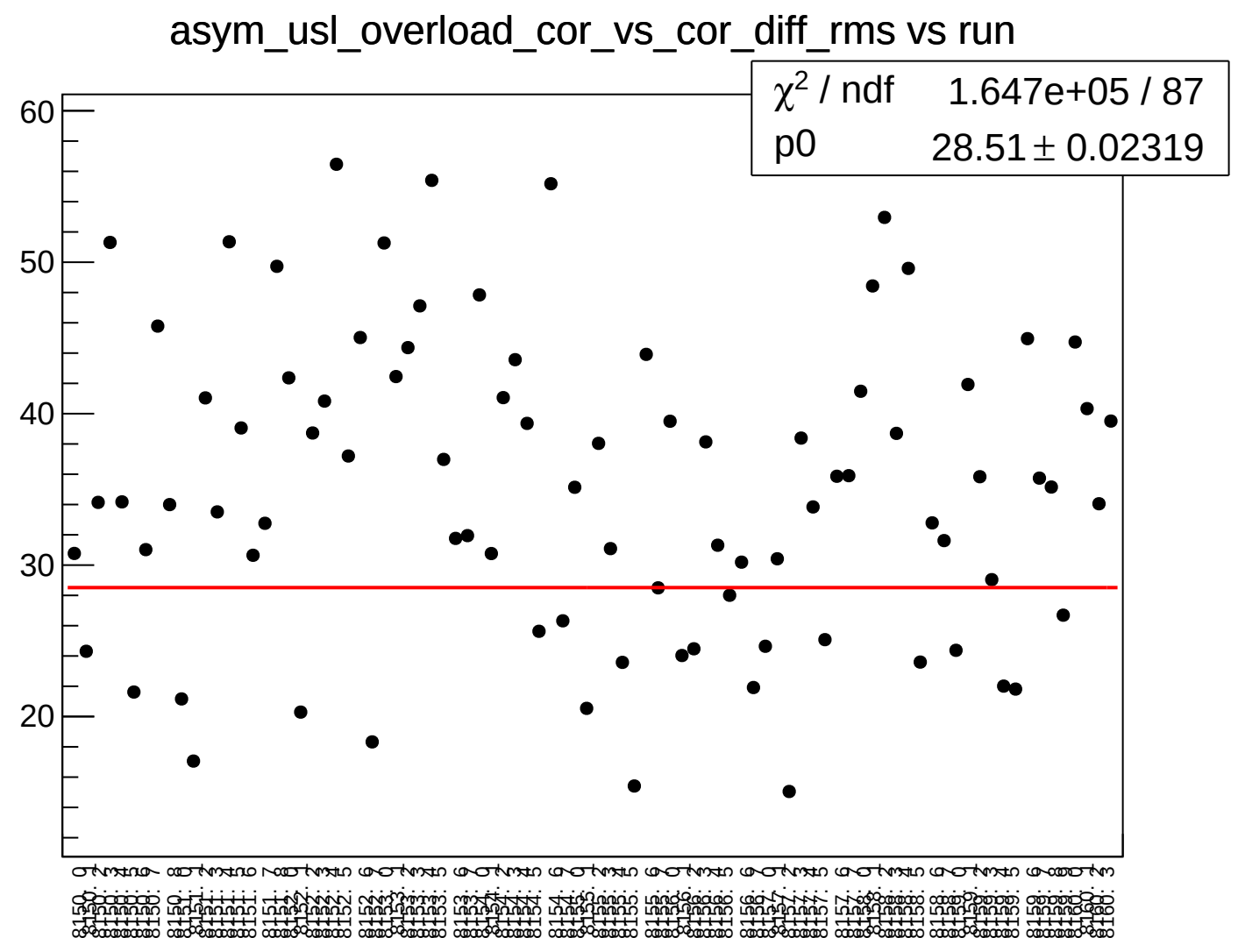

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.25e+04 / 87
p0 47.23 ± 0.03729
80
70
60
50
40
30

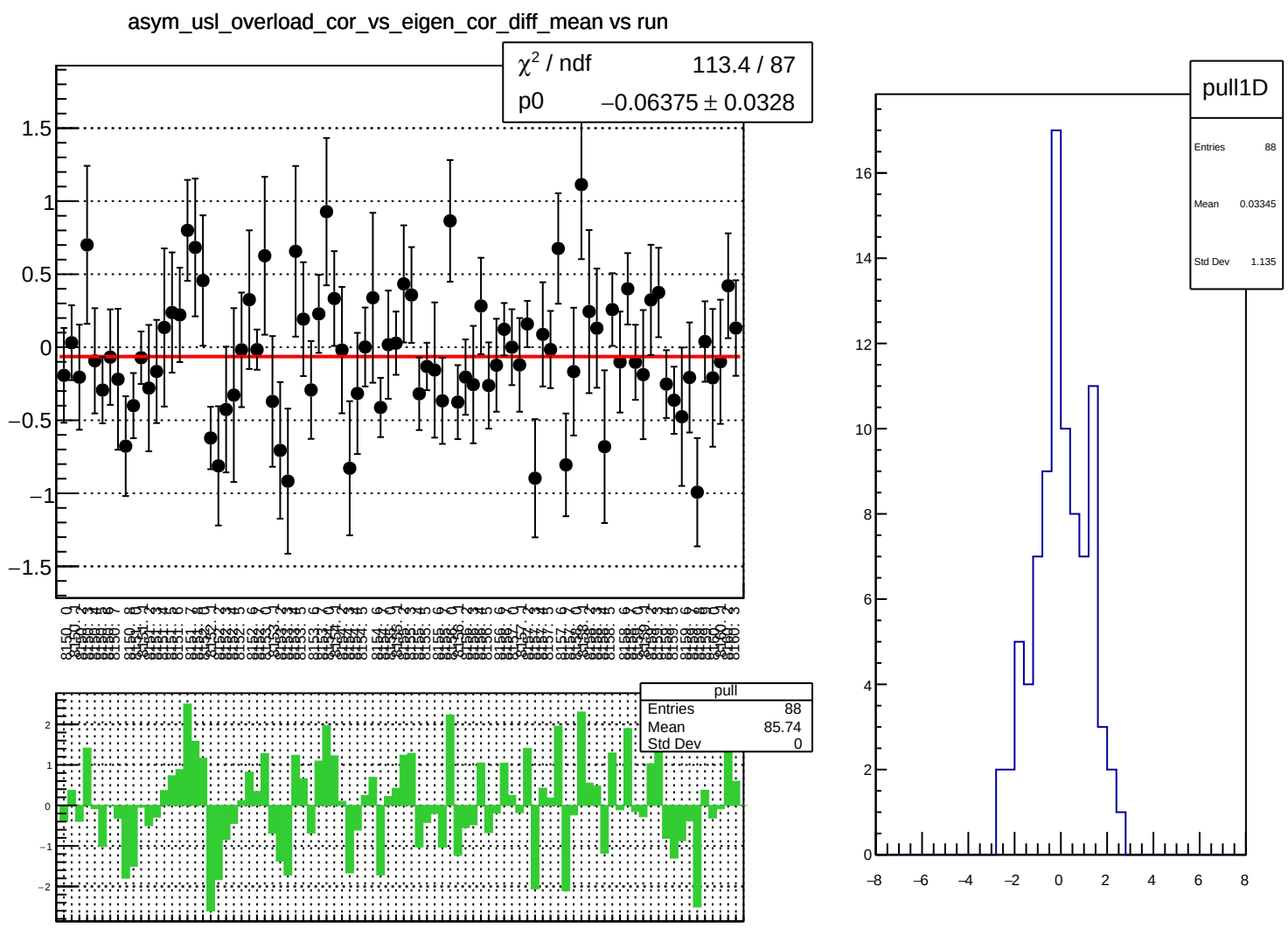

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 81.73 / 87
p0 −3.521e−14 ± 4.693e−14
pull
Entries 88
Mean 102.5
Std Dev 0

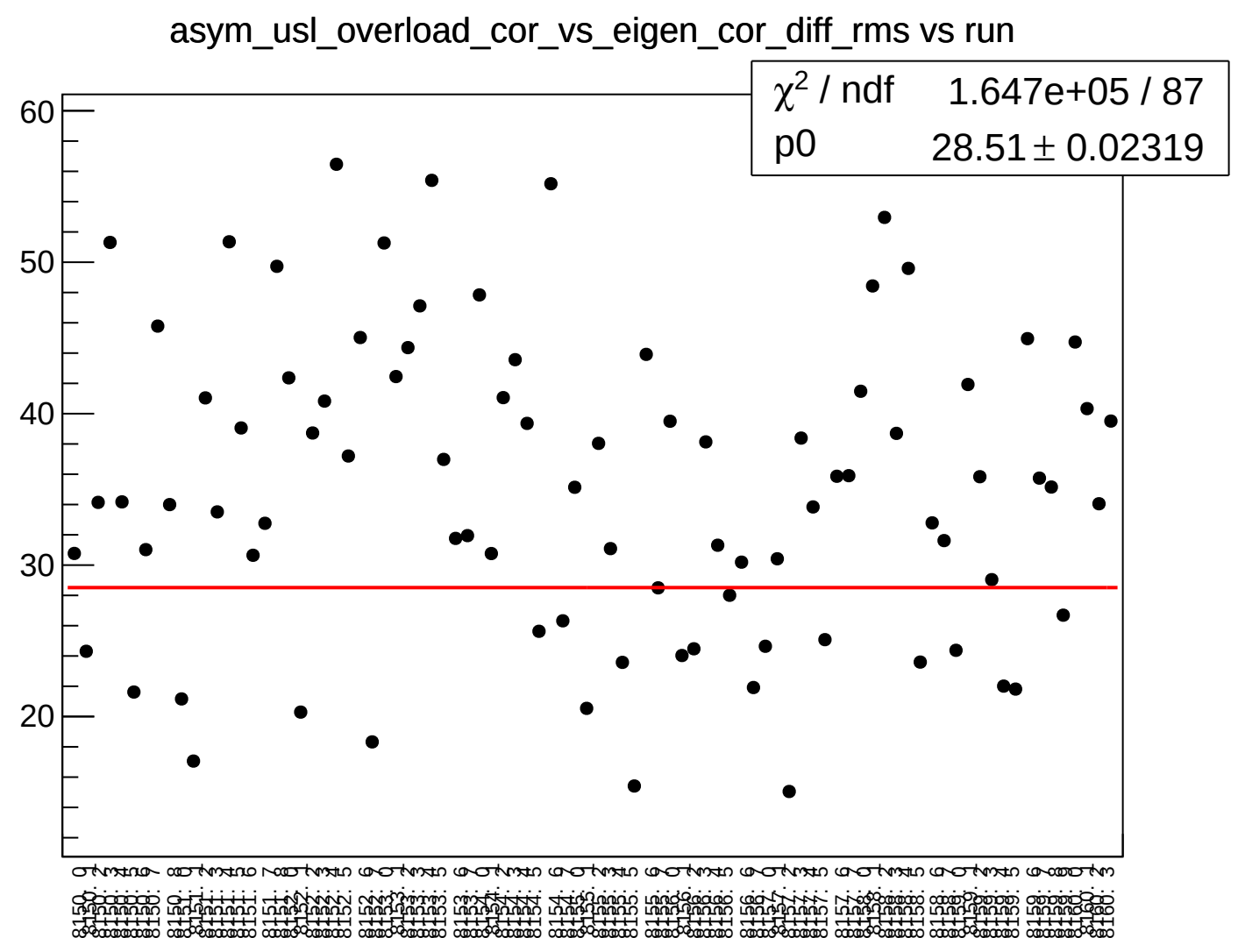

pull1D
Entries 88
Mean −0.05718
Std Dev 0.962

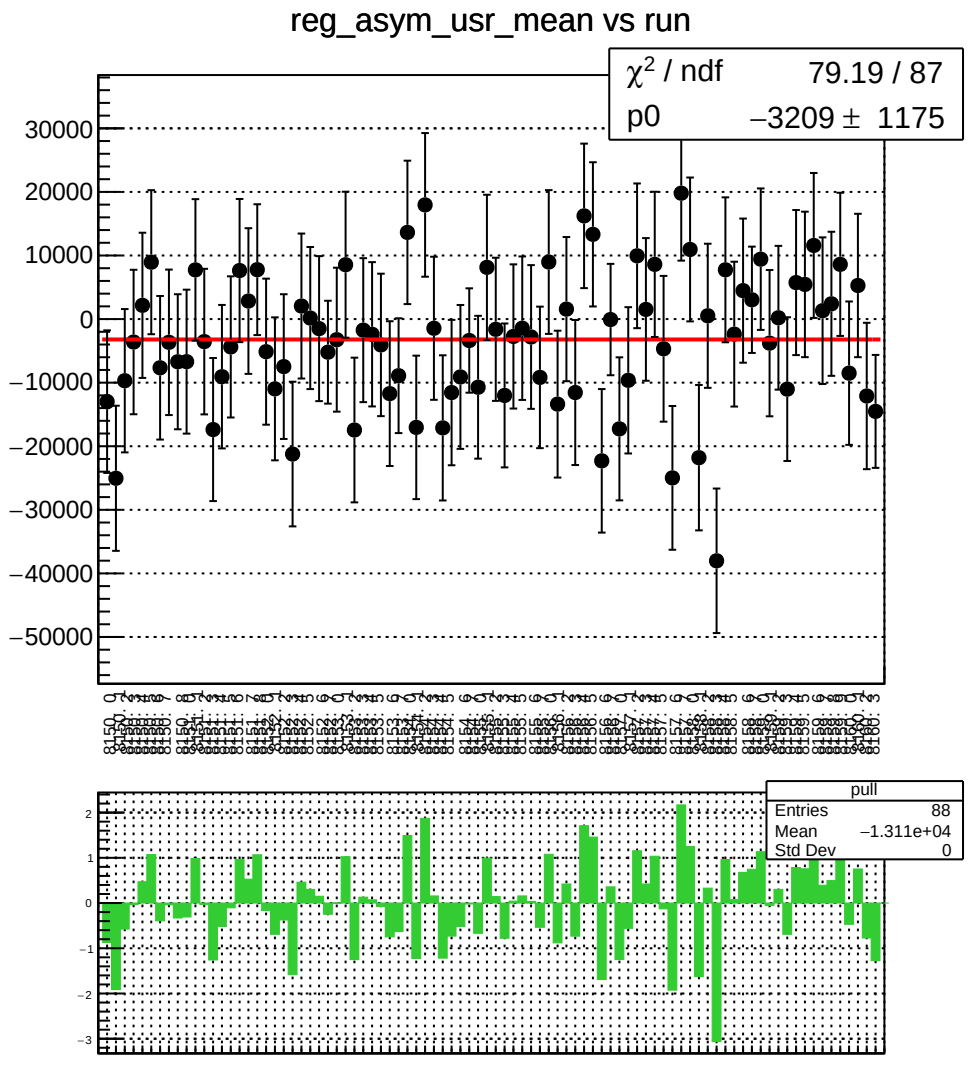

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 5.839e+05 / 87
p0 3.469e−11 ± 3.319e−14

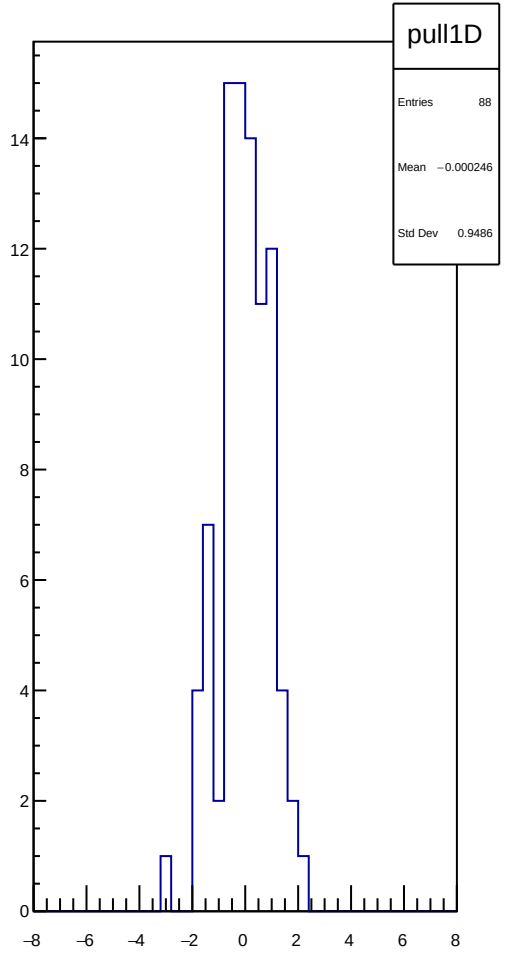

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 113.4 / 87
p0 −0.06375 ± 0.0328
pull
Entries 88
Mean 85.74
Std Dev 0
pull1D
Entries 88
Mean 0.03345
Std Dev 1.135

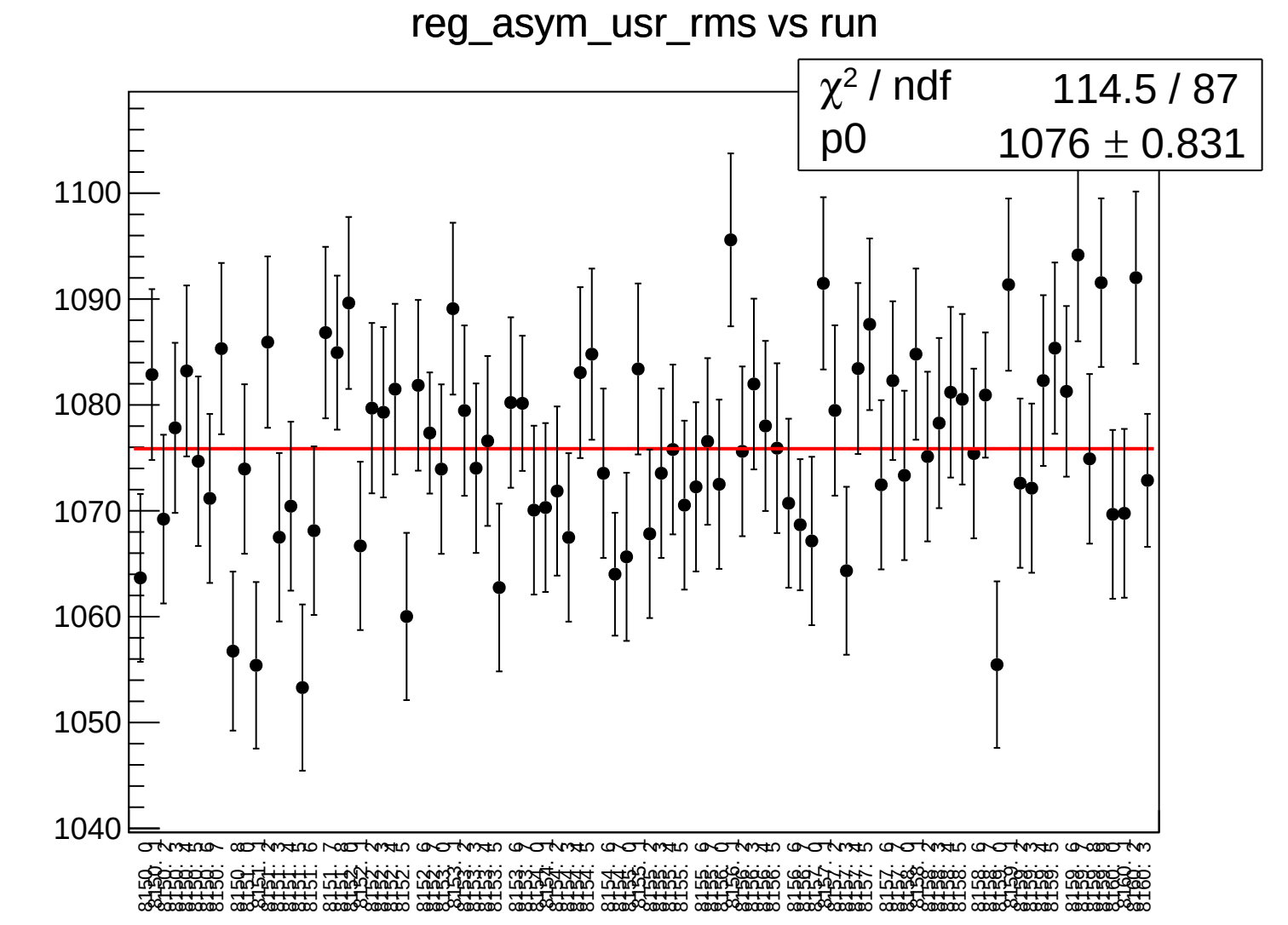

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.647e+05 / 87
p0 28.51 ± 0.02319
60
50
40
30
20

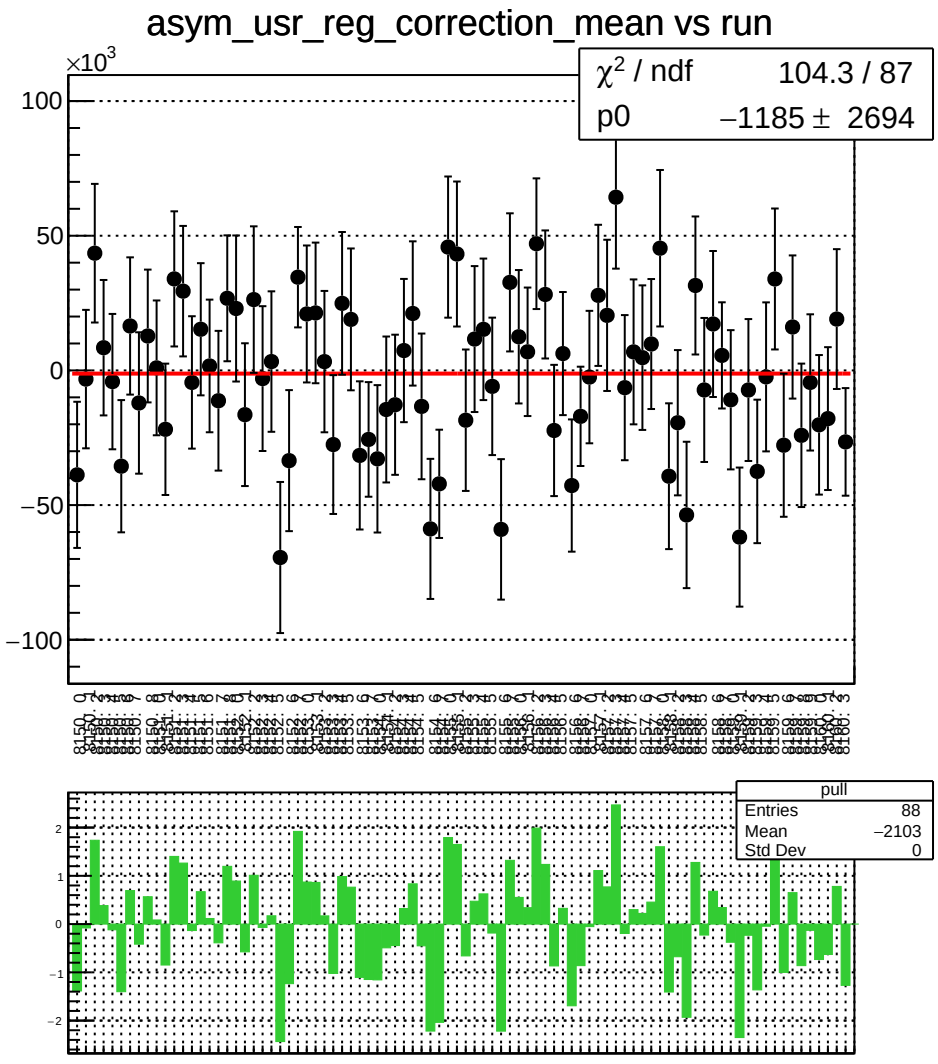

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.4 / 87
p0 −0.06375 ± 0.0328
pull
Entries 88
Mean 85.74
Std Dev 0
pull1D
Entries 88
Mean 0.03345
Std Dev 1.135

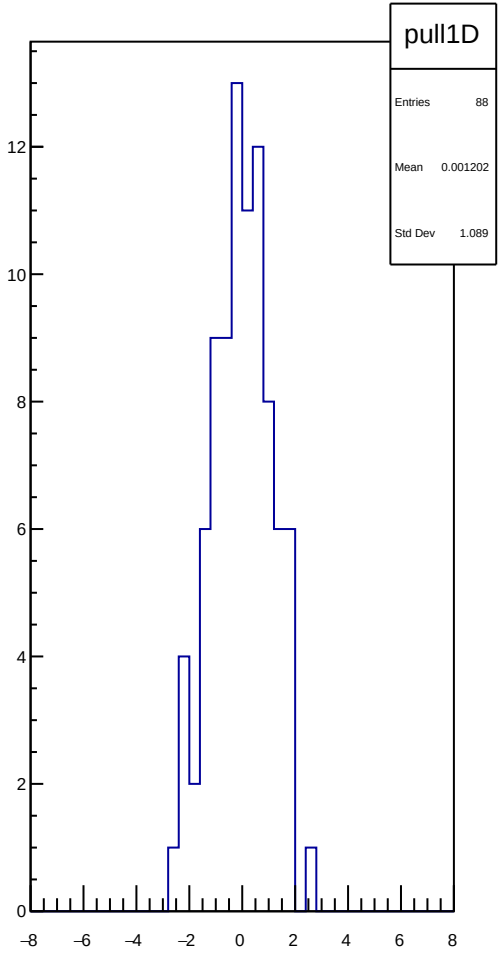

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.647e+05 / 87
p0 28.51 ± 0.02319
60
50
40
30
20

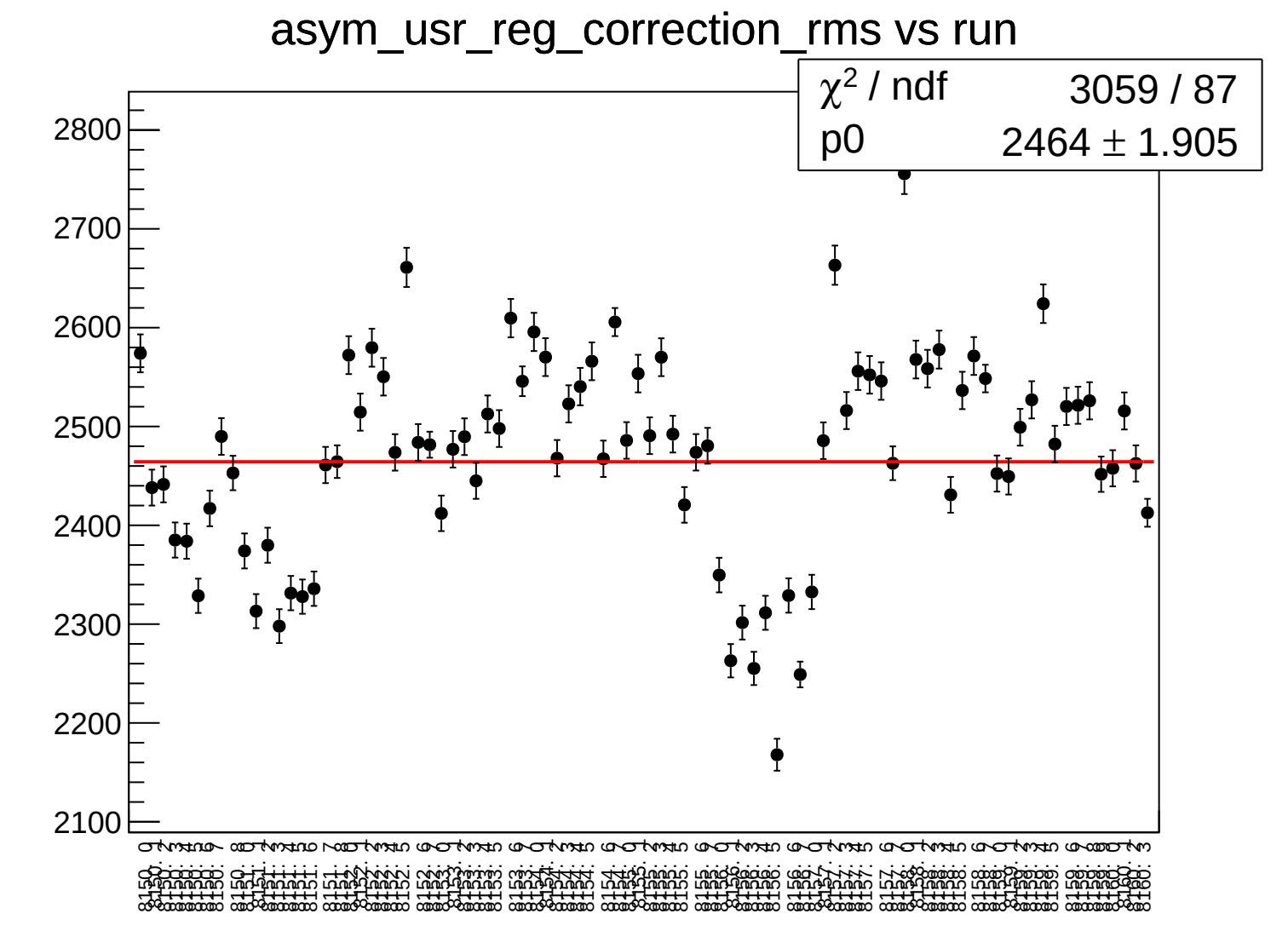

reg_asym_usr_mean vs run
χ² / ndf 79.19 / 87
p0 −3209 ± 1175
pull
Entries 88
Mean −1.311e+04
Std Dev 0

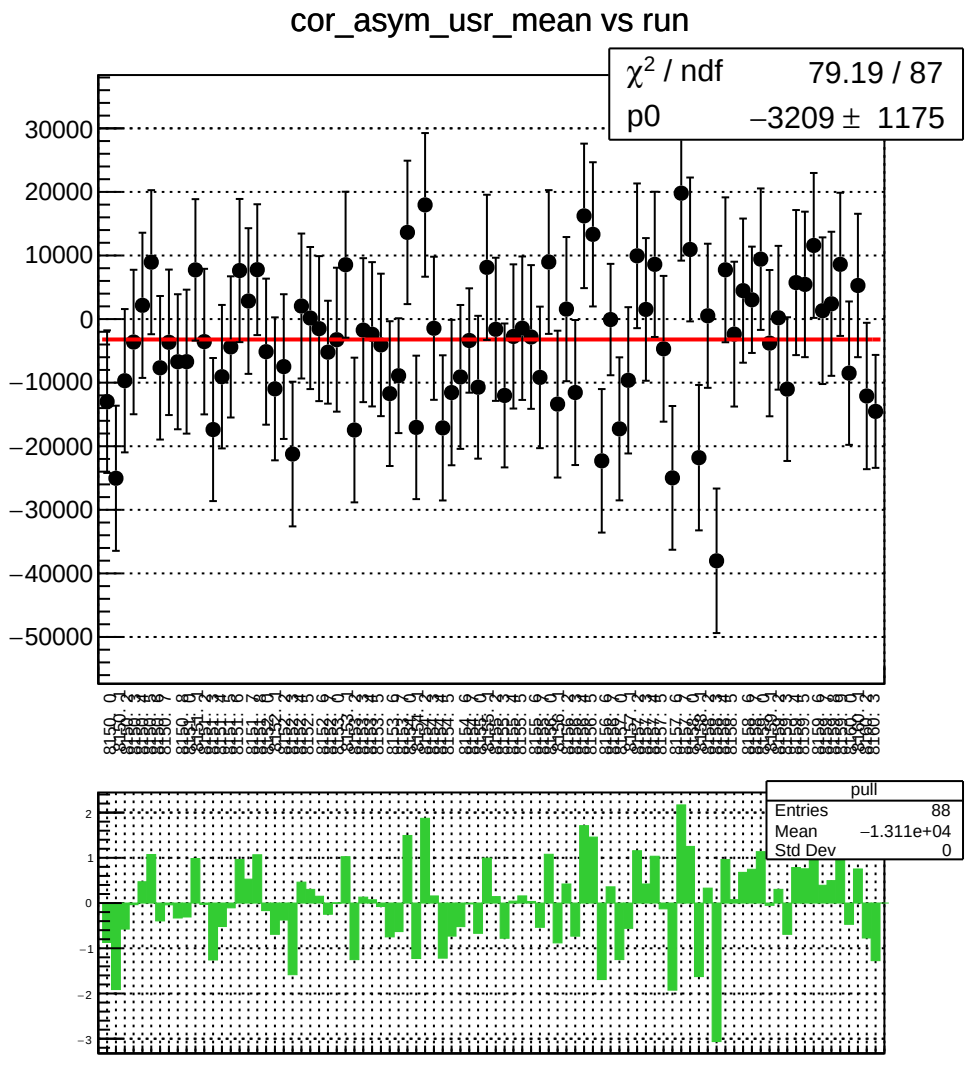

pull1D
Entries 88
Mean −0.000246
Std Dev 0.9486

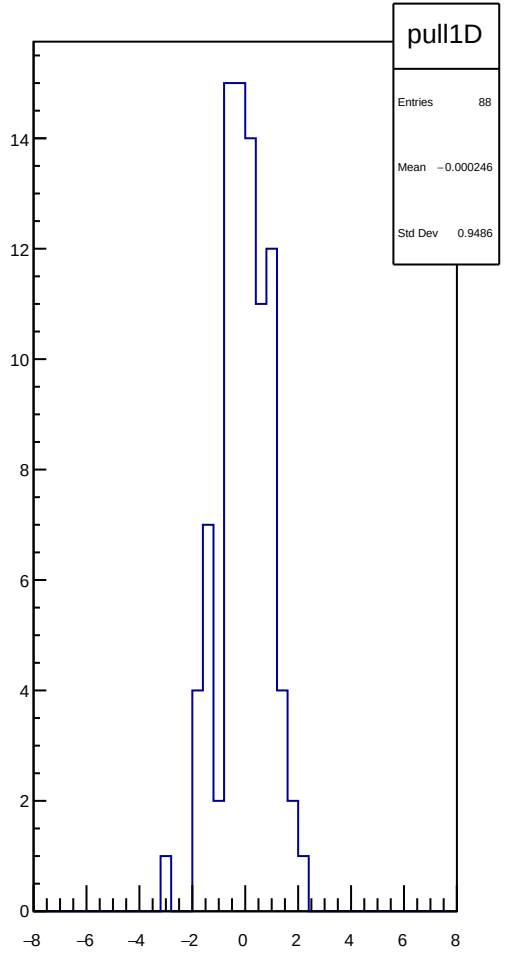

reg_asym_usr_rms vs run
χ^2 / ndf 114.5 / 87
p0 1076 ± 0.831
1100
1090
1080
1070
1060
1050
1040

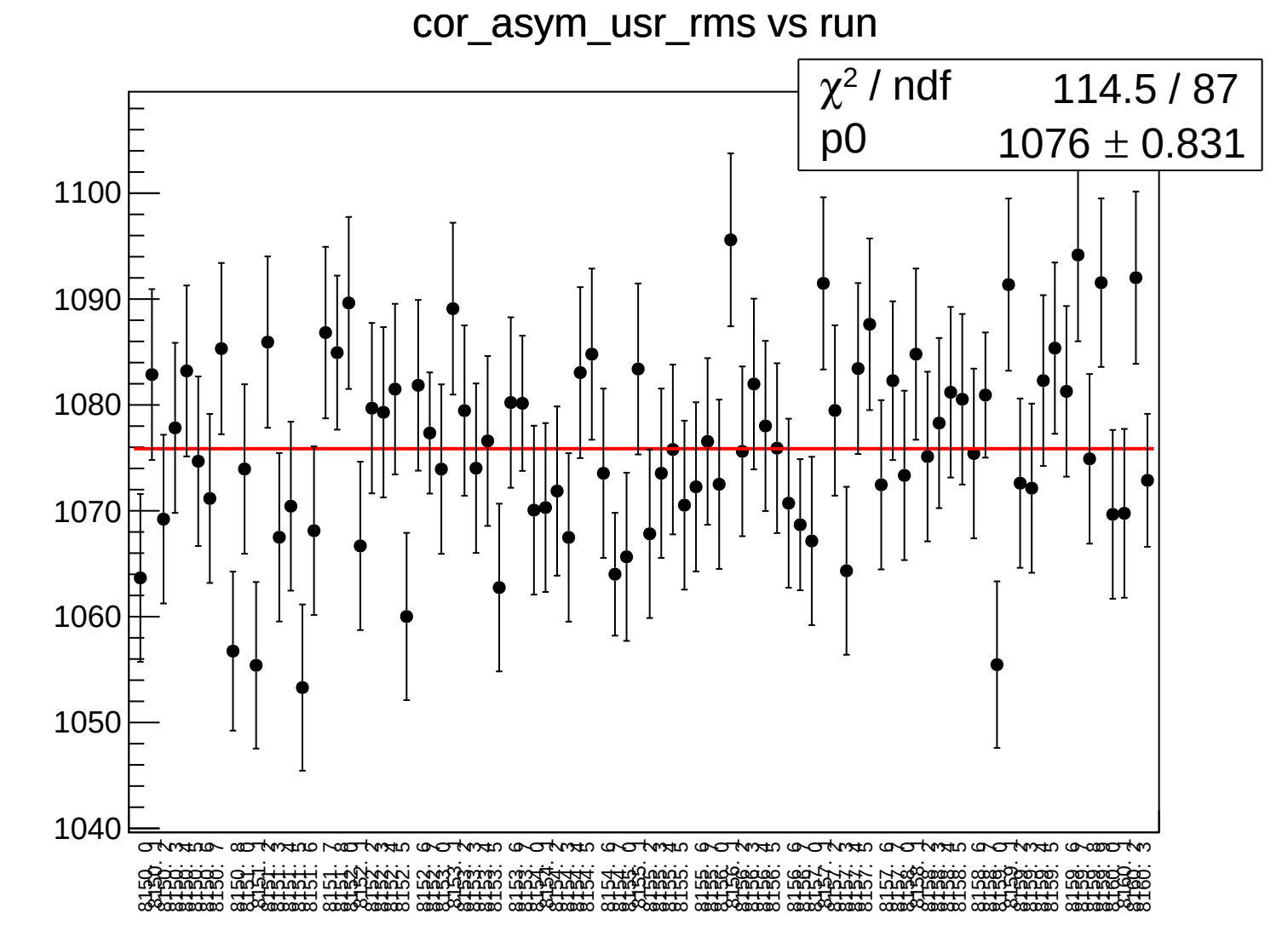

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 104.3 / 87
p0 −1185 ± 2694
100
50
0
−50
−100
pull
Entries 88
Mean −2103
Std Dev 0
2
1
0
−1
−2

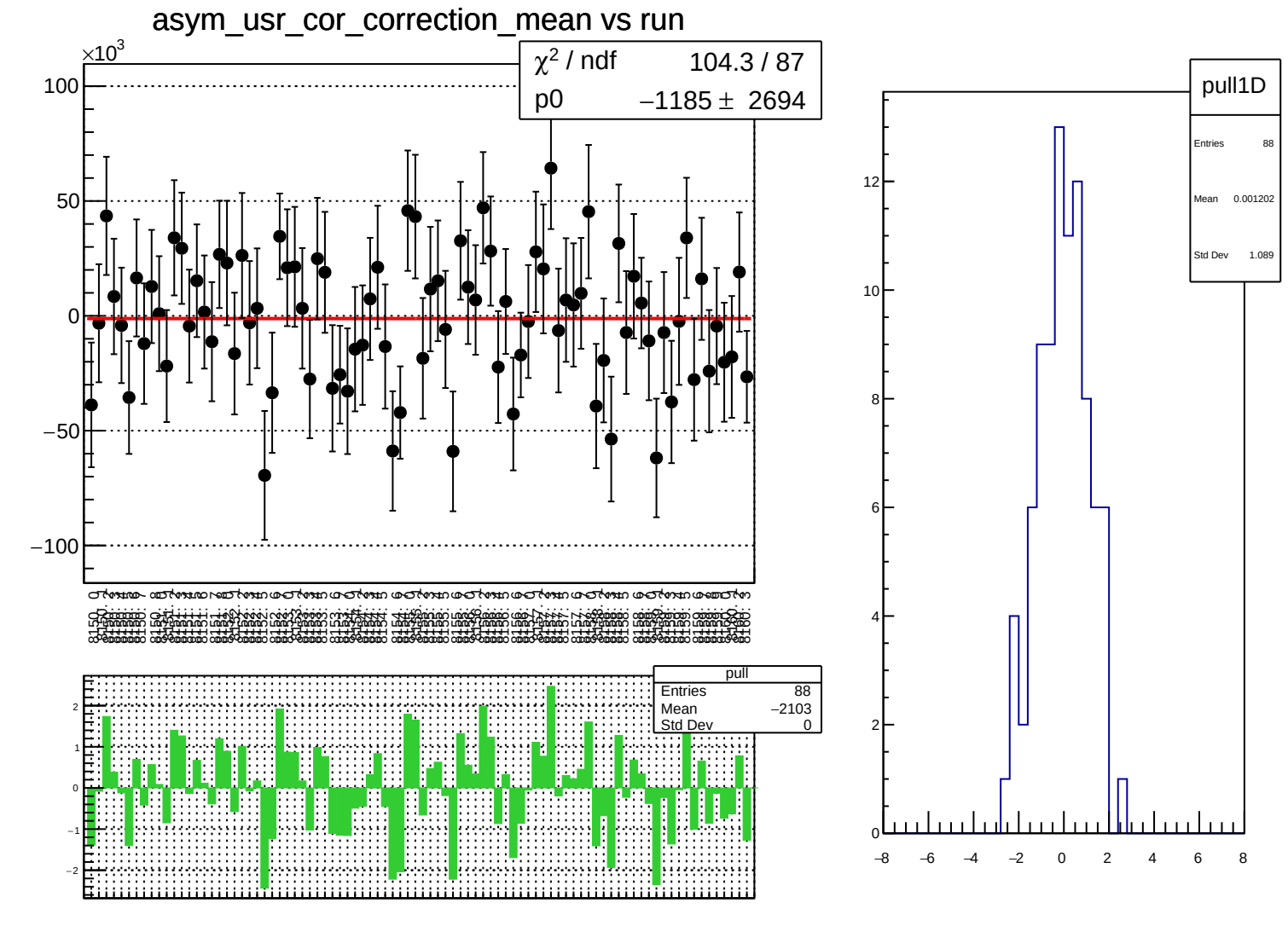

pull1D
Entries 88
Mean 0.001202
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

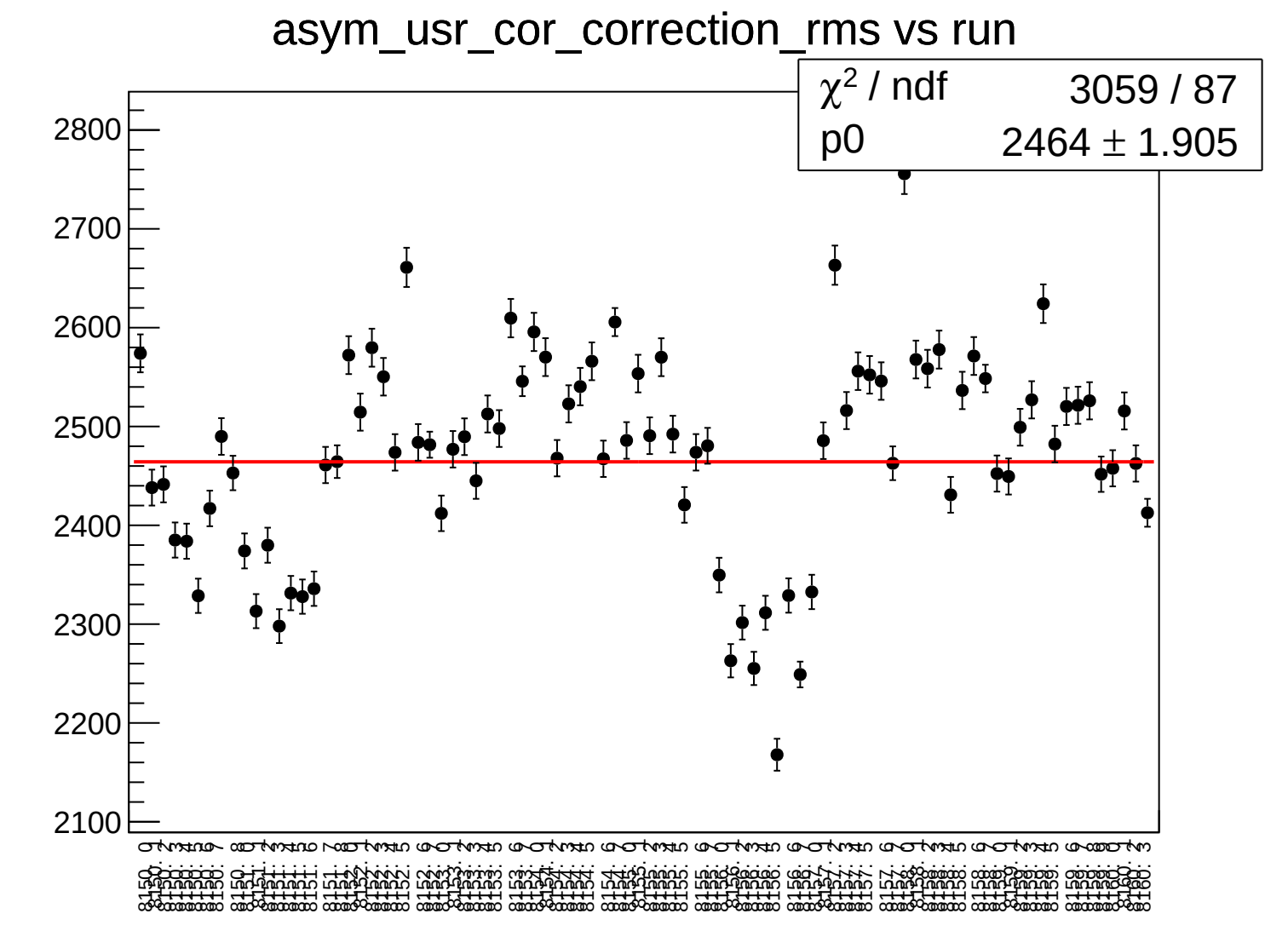

asym_usr_reg_correction_rms vs run
χ² / ndf 3059 / 87
p0 2464 ± 1.905
2800
2700
2600
2500
2400
2300
2200
2100

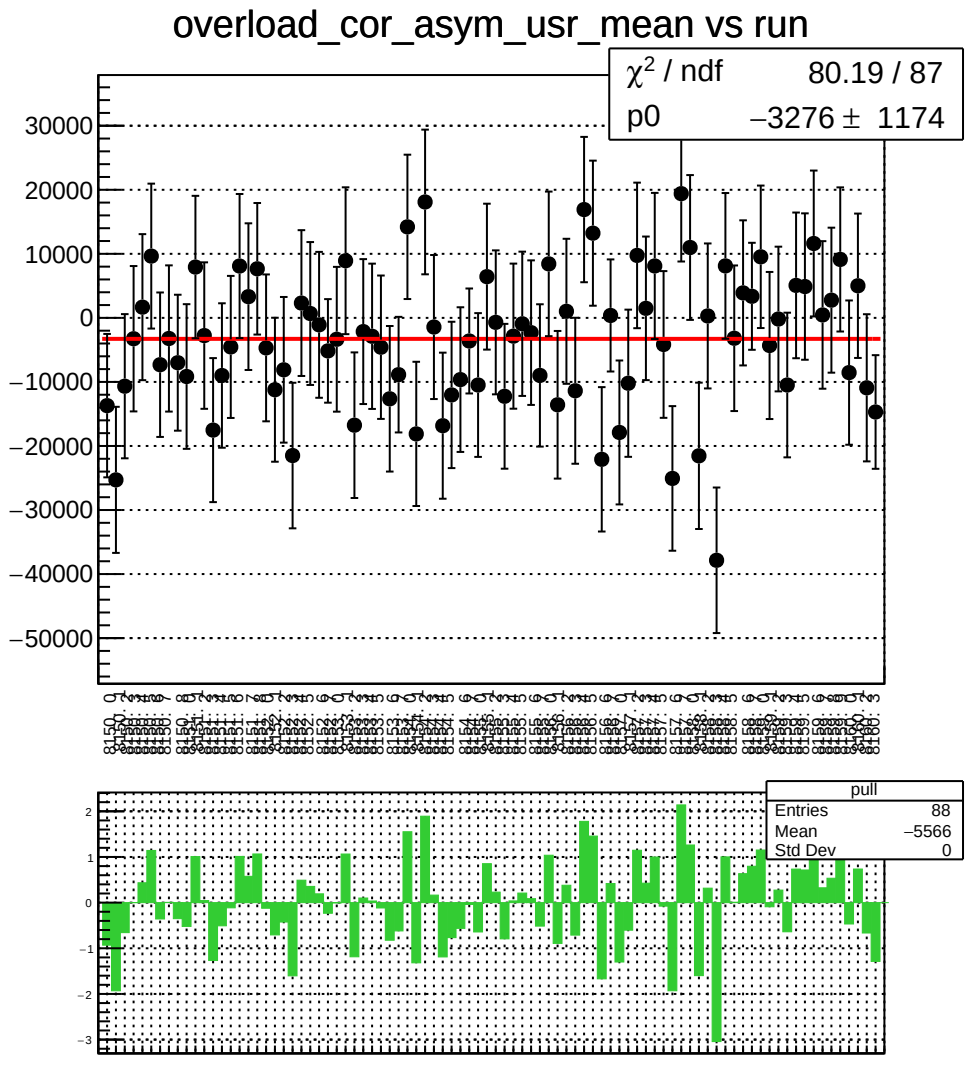

cor_asym_usr_mean vs run
χ² / ndf 79.19 / 87
p0 −3209 ± 1175
pull
Entries 88
Mean −1.311e+04
Std Dev 0

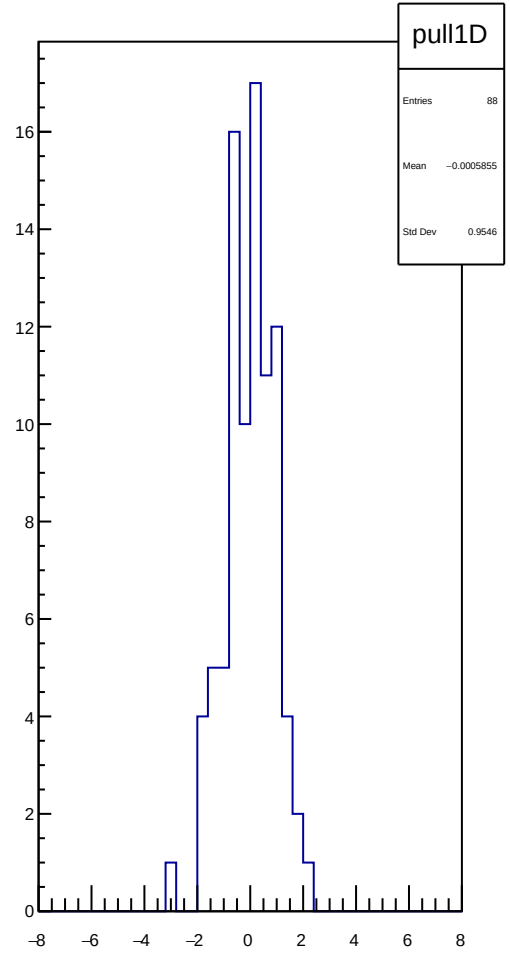

pull1D
Entries 88
Mean −0.000246
Std Dev 0.9486

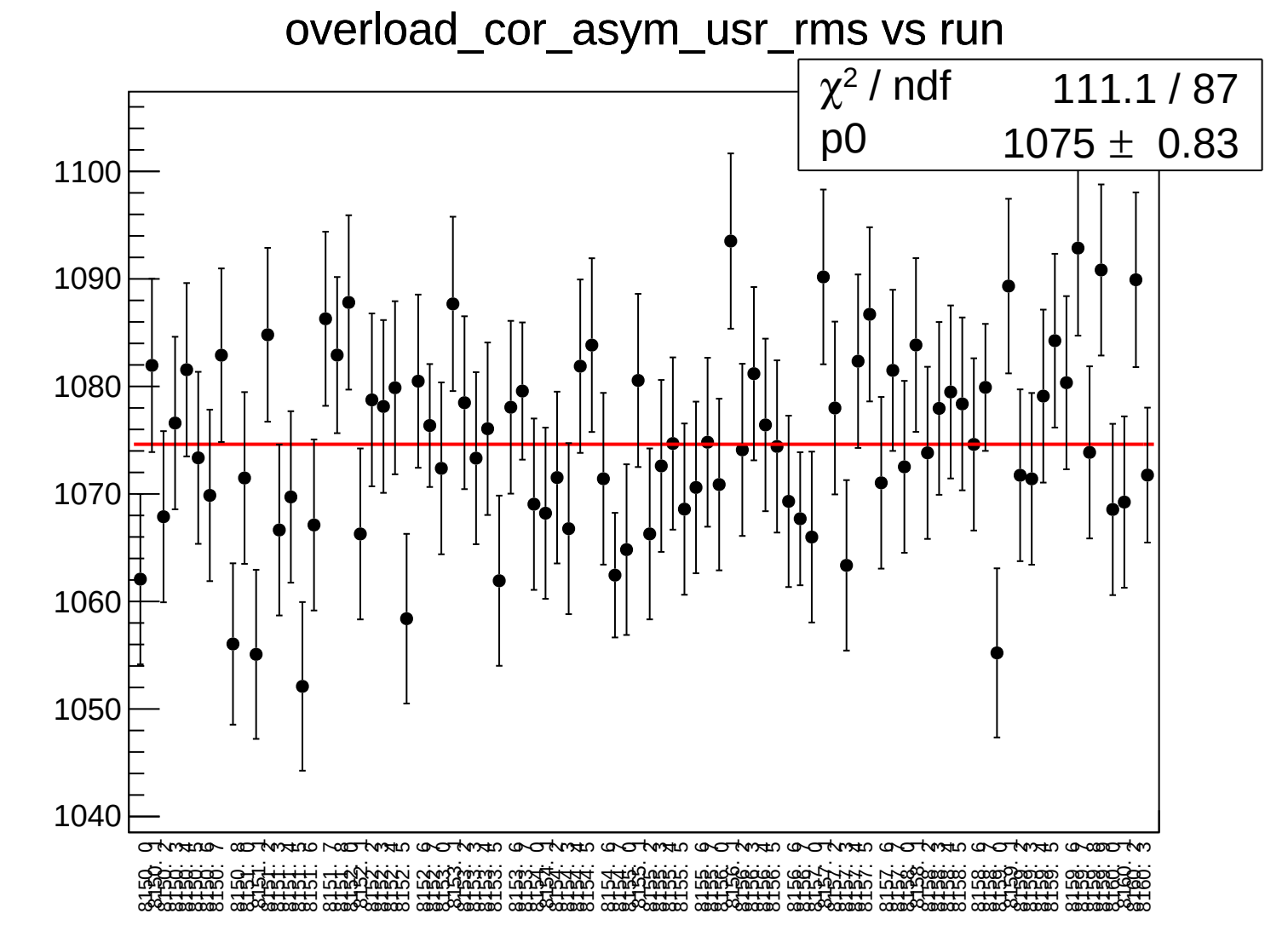

cor_asym_usr_rms vs run
χ² / ndf 114.5 / 87
p0 1076 ± 0.831
1100
1090
1080
1070
1060
1050
1040

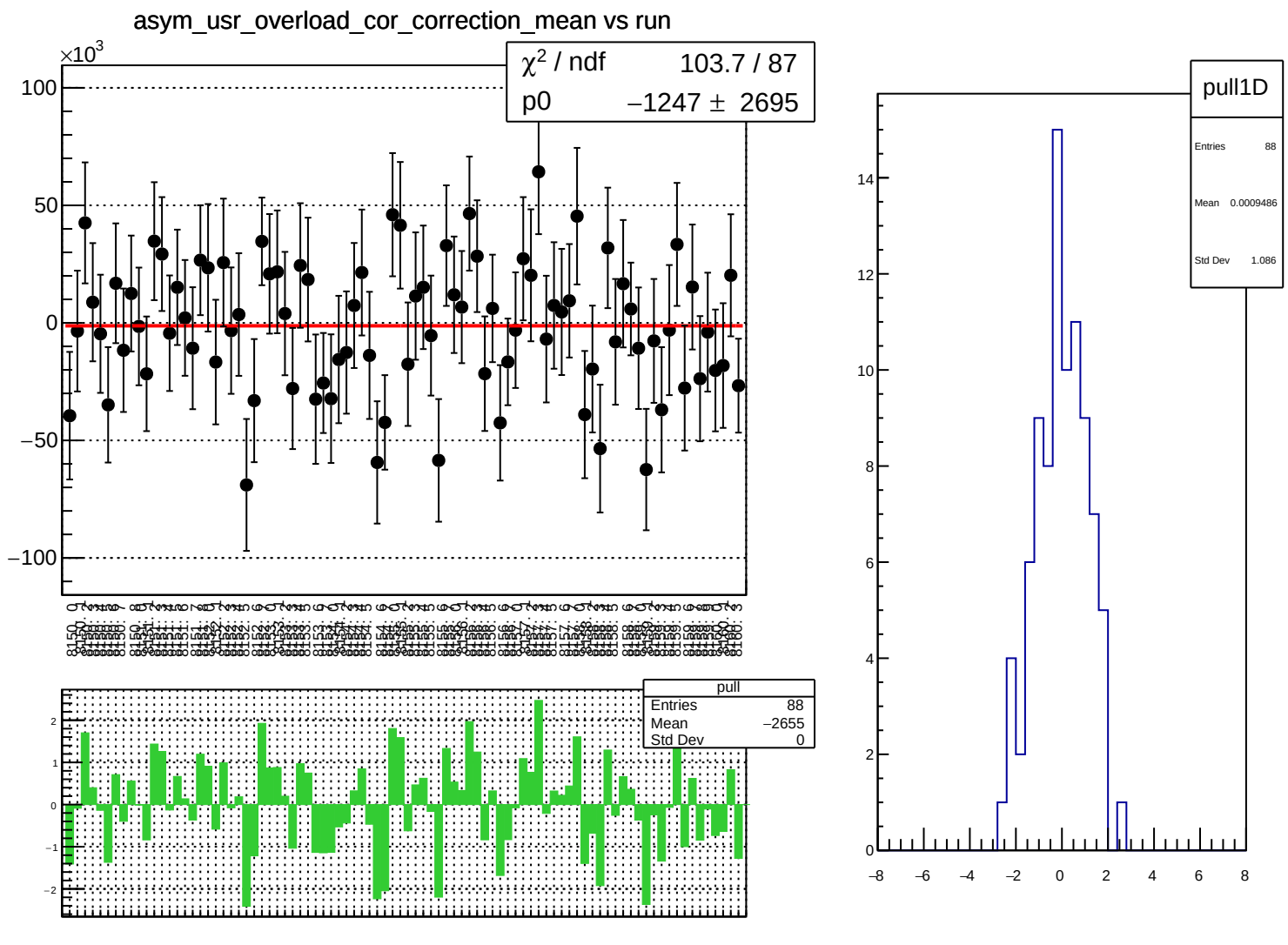

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 104.3 / 87
p0 −1185 ± 2694
100
50
0
−50
−100
pull
Entries 88
Mean −2103
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001202
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

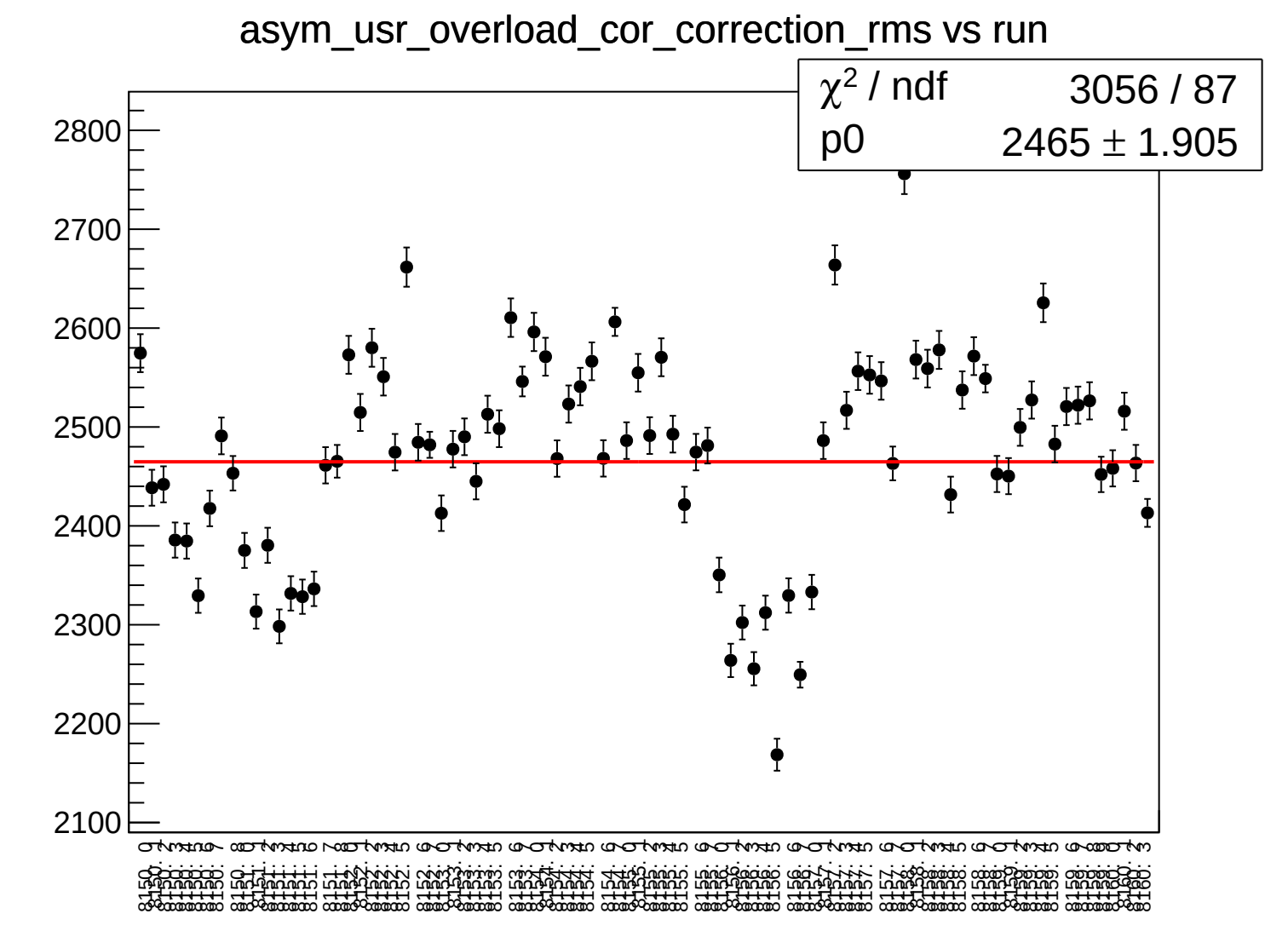

asym_usr_cor_correction_rms vs run
χ² / ndf 3059 / 87
p0 2464 ± 1.905
2800
2700
2600
2500
2400
2300
2200
2100

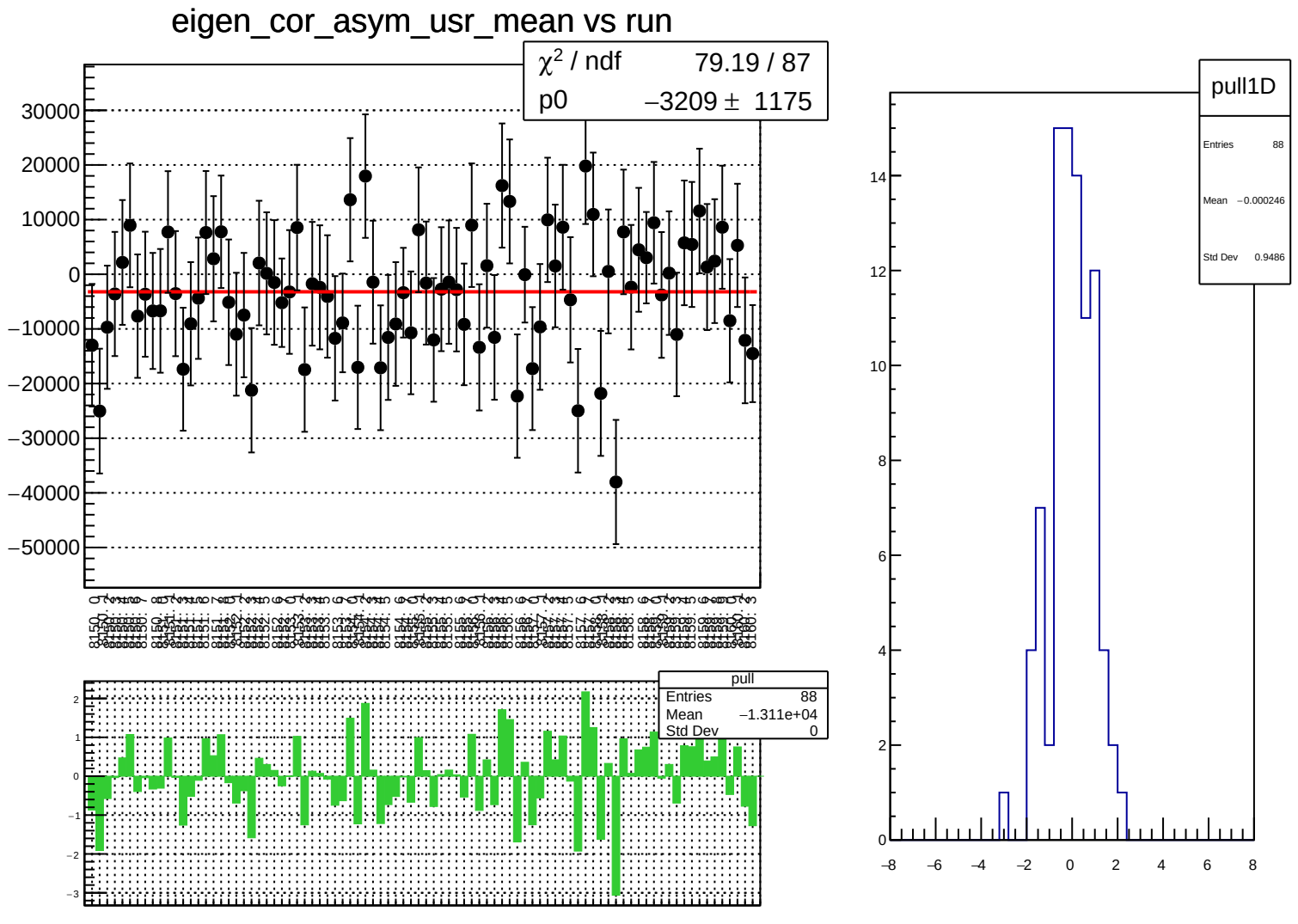

overload_cor_asym_usr_mean vs run
χ² / ndf 80.19 / 87
p0 −3276 ± 1174
pull
Entries 88
Mean −5566
Std Dev 0

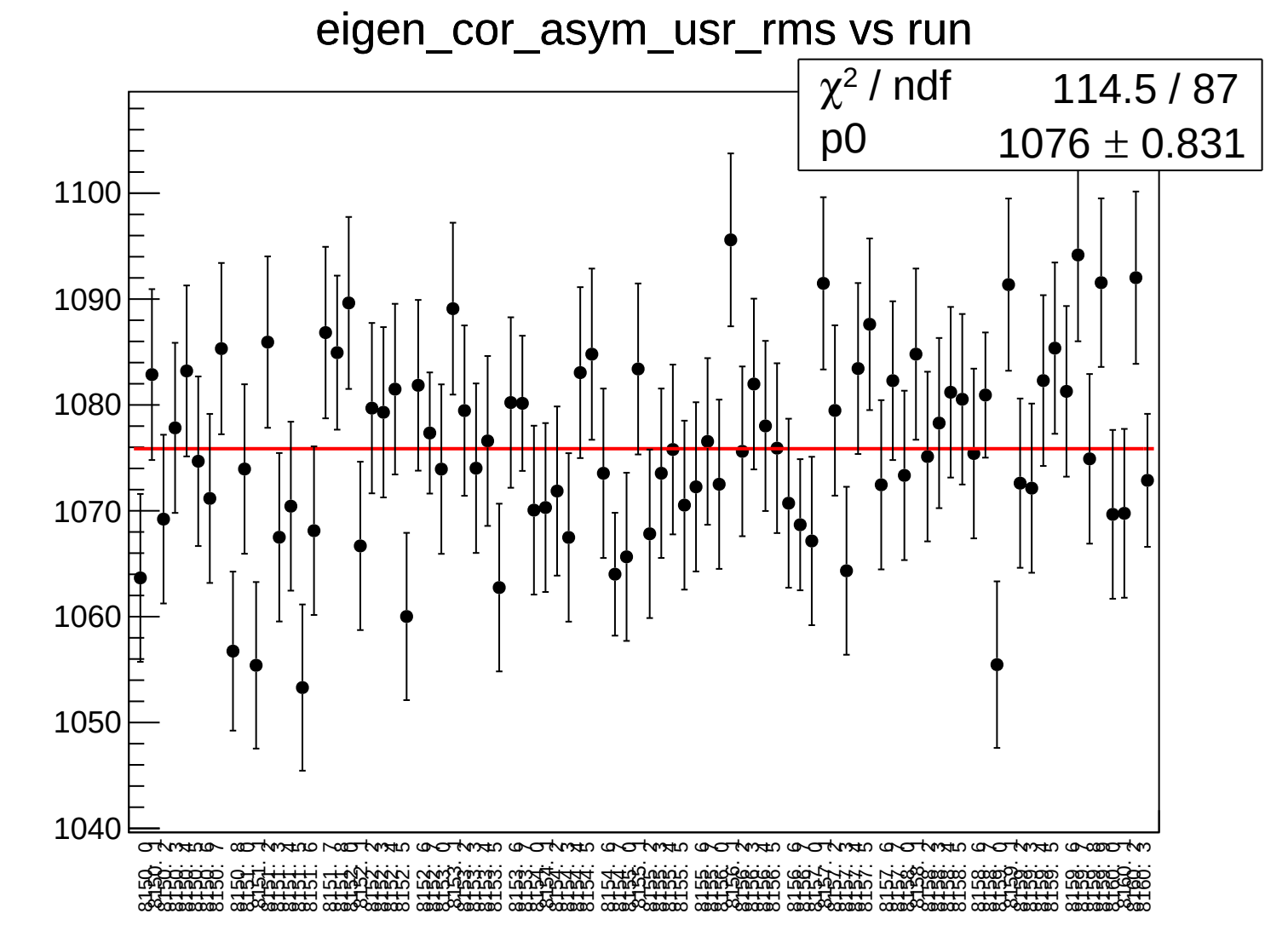

pull1D
Entries 88
Mean −0.0005855
Std Dev 0.9546

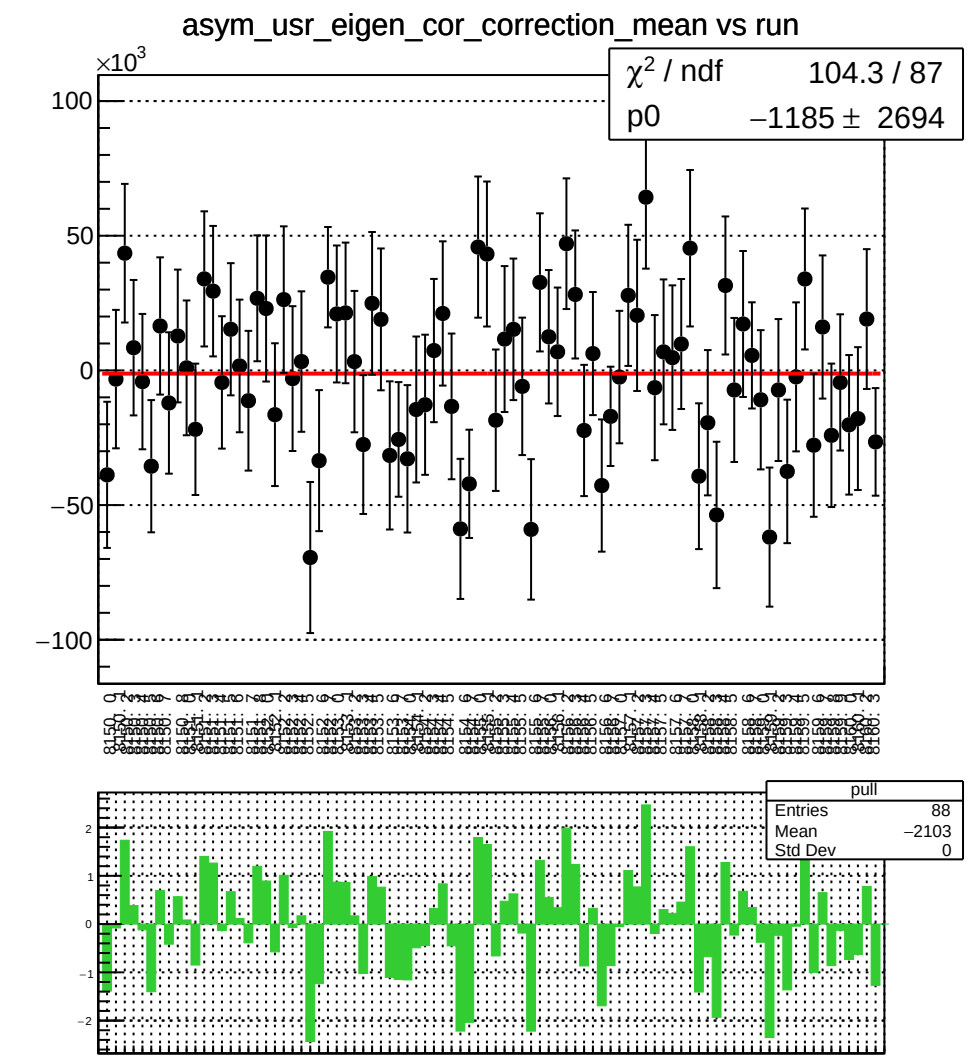

overload_cor_asym_usr_rms vs run
χ² / ndf 111.1 / 87
p0 1075 ± 0.83
1100
1090
1080
1070
1060
1050
1040

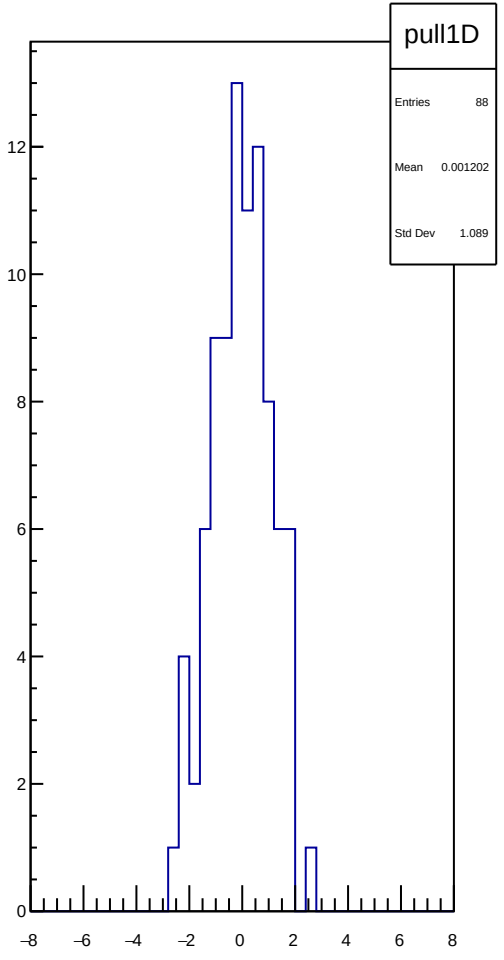

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 103.7 / 87
p0 −1247 ± 2695
100
50
0
−50
−100
pull
Entries 88
Mean −2655
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0009486
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

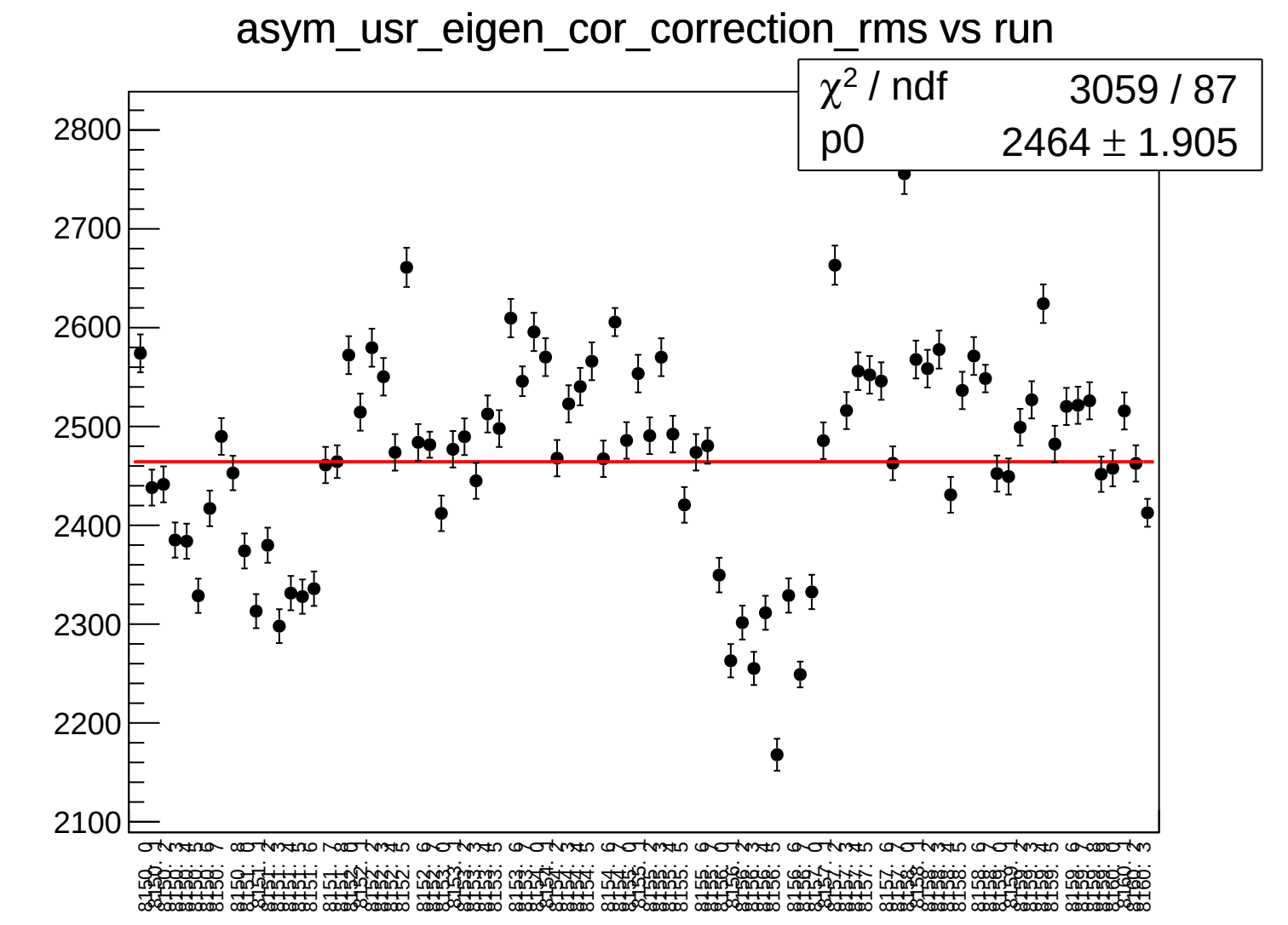

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 3056 / 87
p0 2465 ± 1.905
2800
2700
2600
2500
2400
2300
2200
2100

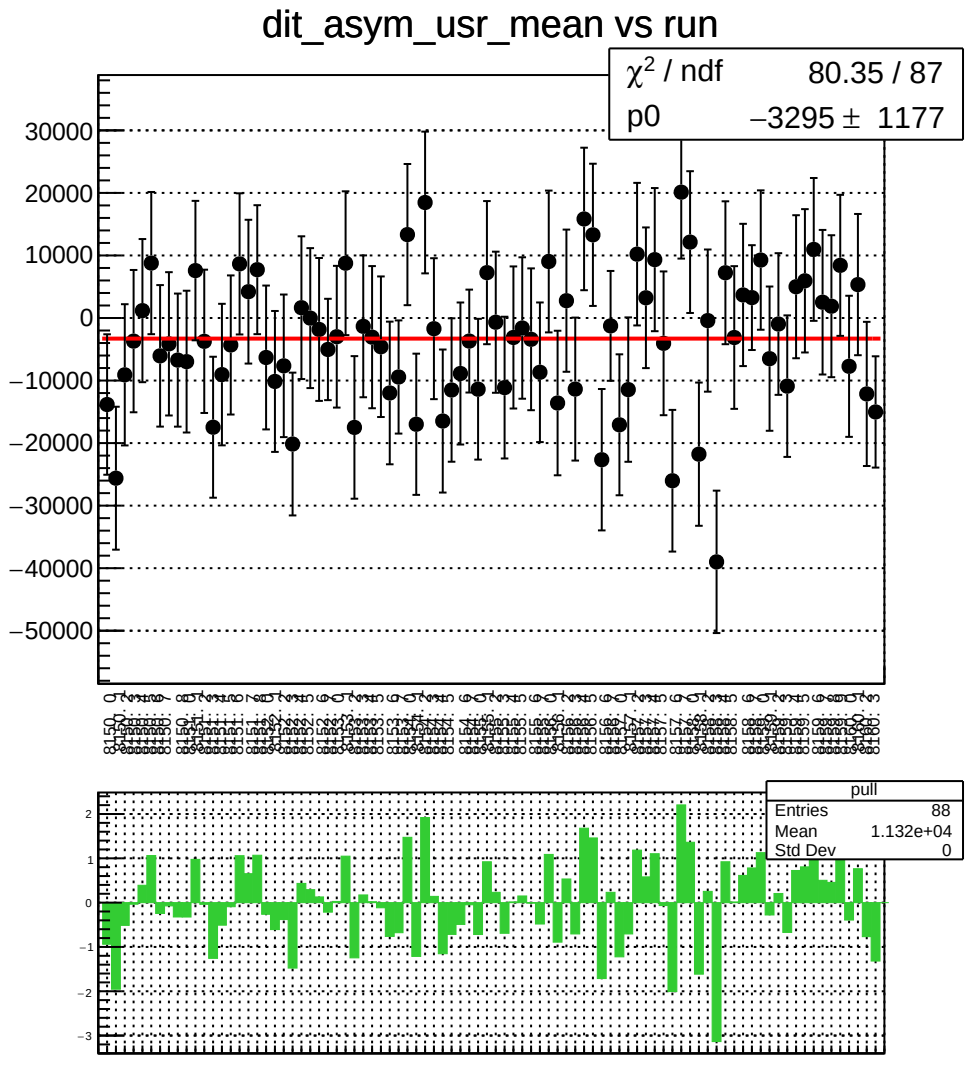

eigen_cor_asym_usr_mean vs run
χ² / ndf 79.19 / 87
p0 −3209 ± 1175
pull
Entries 88
Mean −1.311e+04
Std Dev 0
pull1D
Entries 88
Mean −0.000246
Std Dev 0.9486

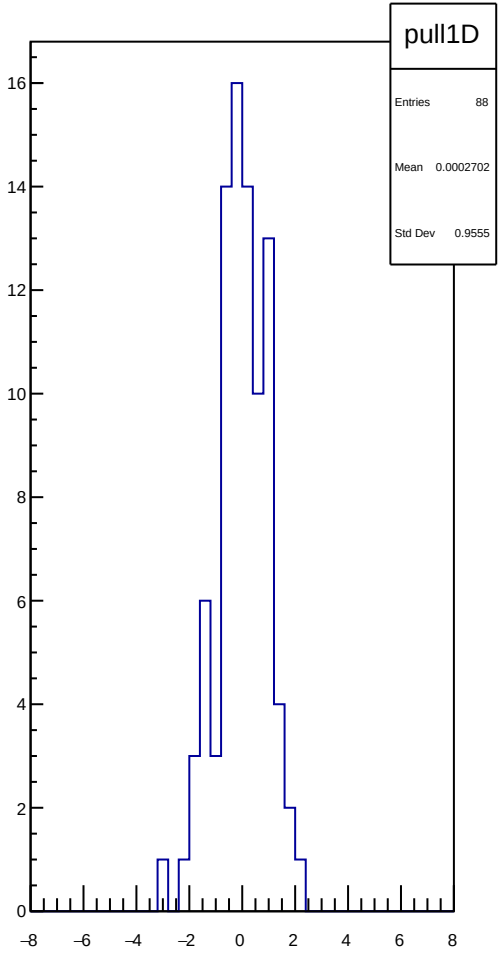

eigen_cor_asym_usr_rms vs run
χ^2 / ndf 114.5 / 87
p0 1076 ± 0.831
1100
1090
1080
1070
1060
1050
1040

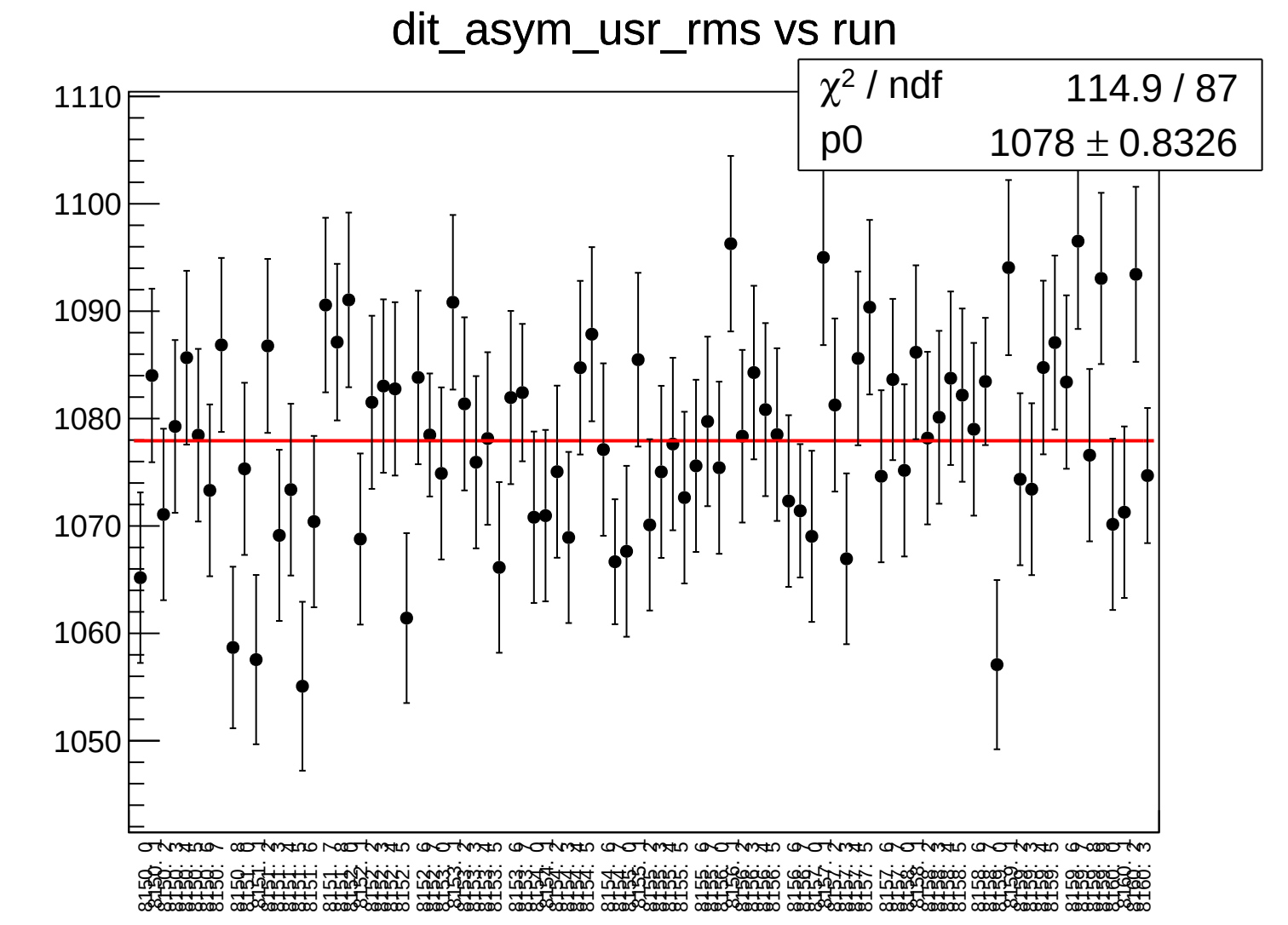

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 104.3 / 87
p0 −1185 ± 2694
100
50
0
−50
−100
pull
Entries 88
Mean −2103
Std Dev 0
2
1
0
−1
−2

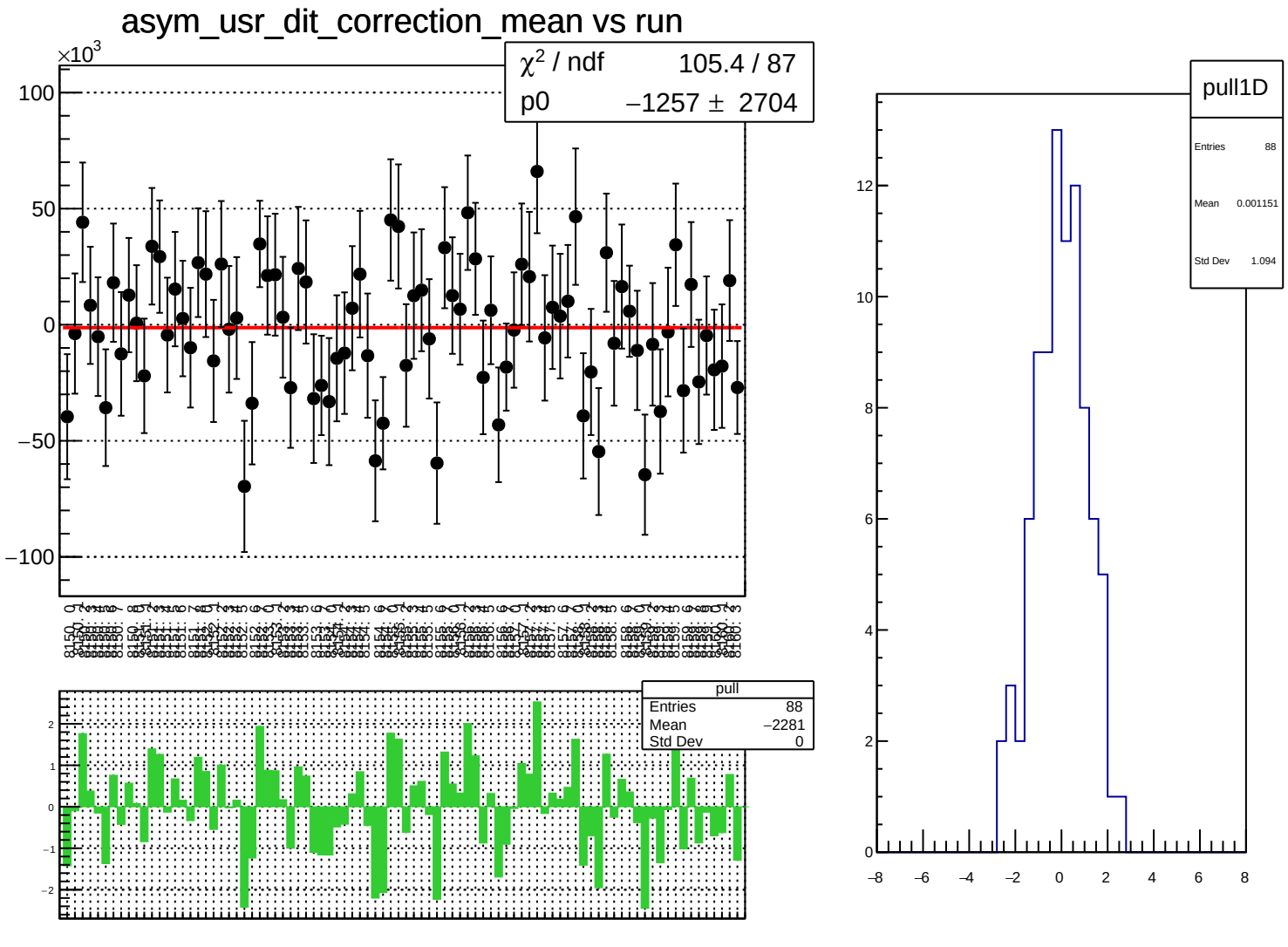

pull1D
Entries 88
Mean 0.001202
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

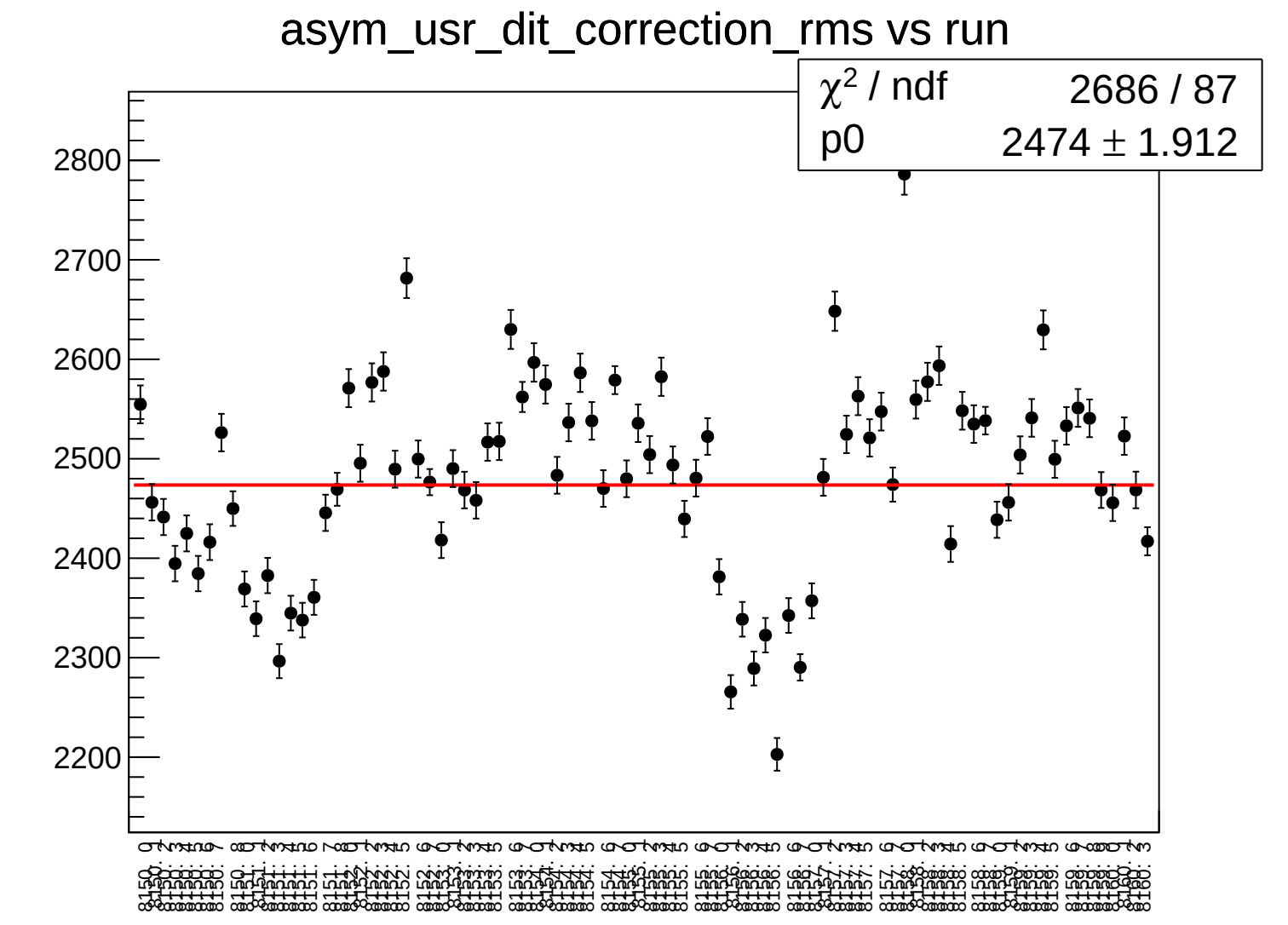

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 3059 / 87
p0 2464 ± 1.905
2800
2700
2600
2500
2400
2300
2200
2100

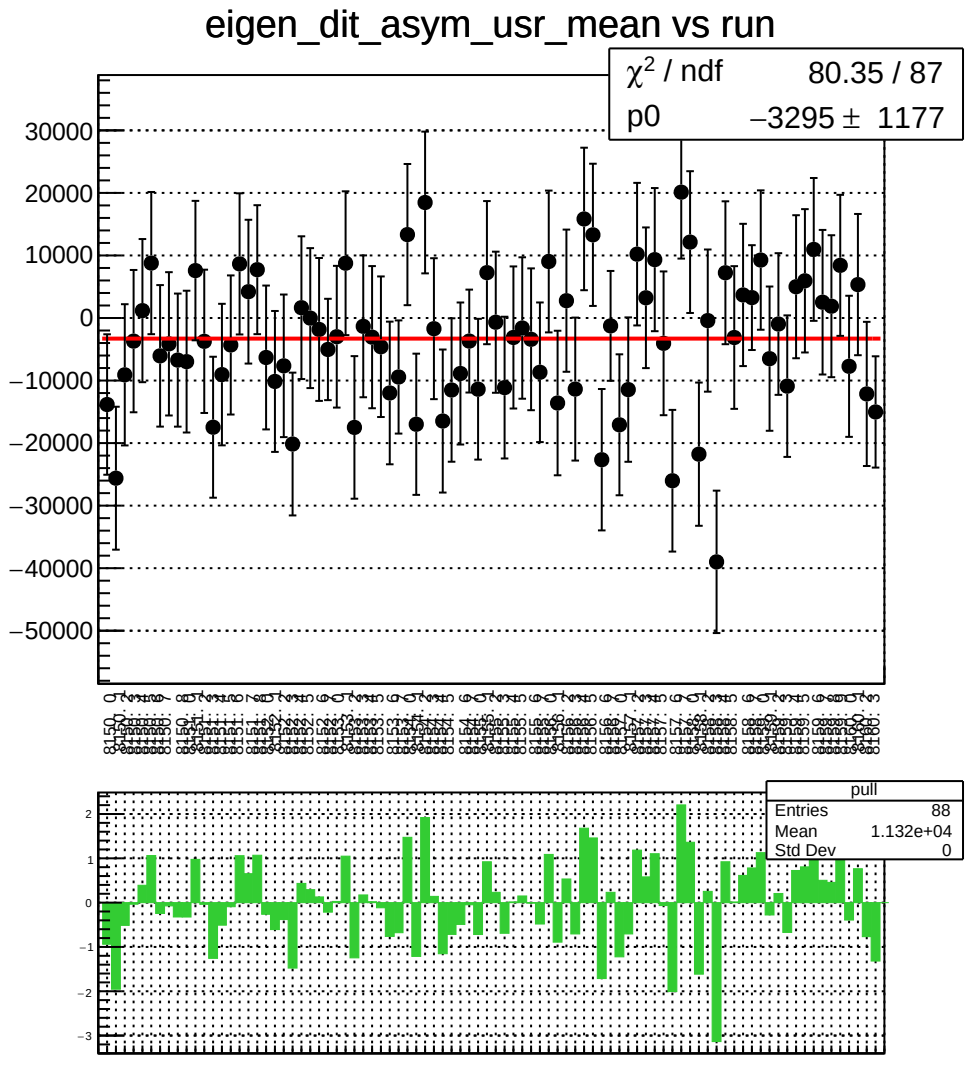

dit_asym_usr_mean vs run
χ² / ndf 80.35 / 87
p0 −3295 ± 1177
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 88
Mean 1.132e+04
Std Dev 0
2
1
0
−1
−2
−3

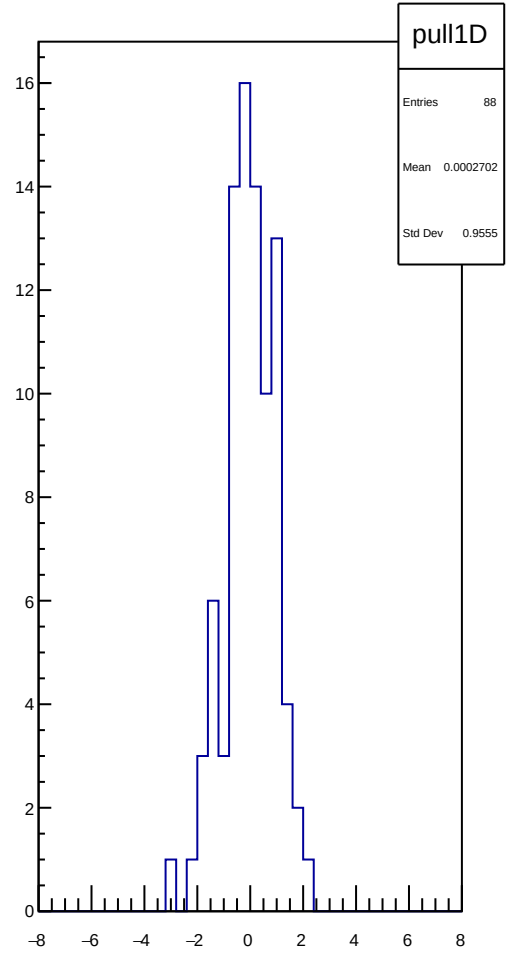

pull1D
Entries 88
Mean 0.0002702
Std Dev 0.9555
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

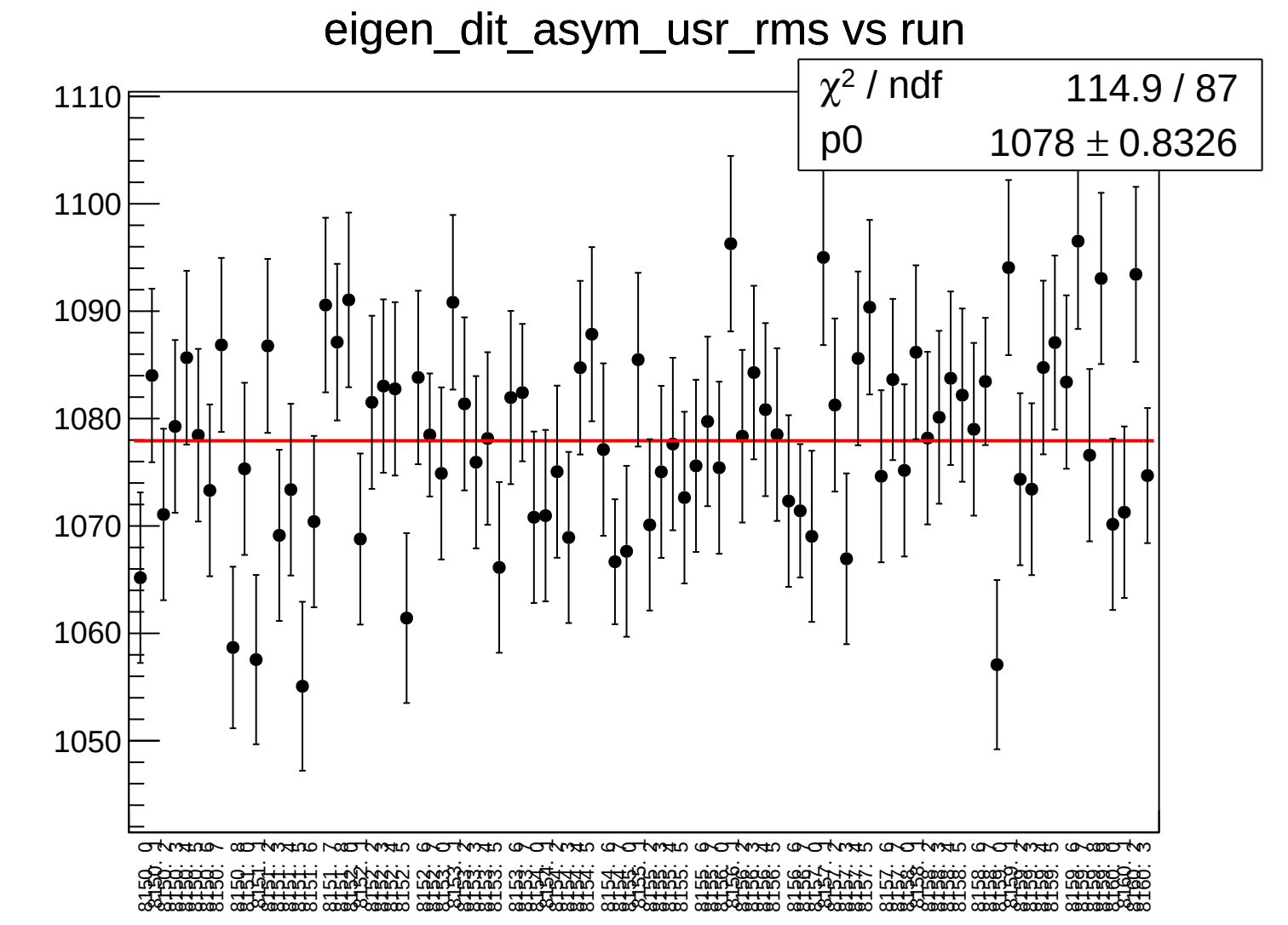

dit_asym_usr_rms vs run
χ² / ndf 114.9 / 87
p0 1078 ± 0.8326
1110
1100
1090
1080
1070
1060
1050

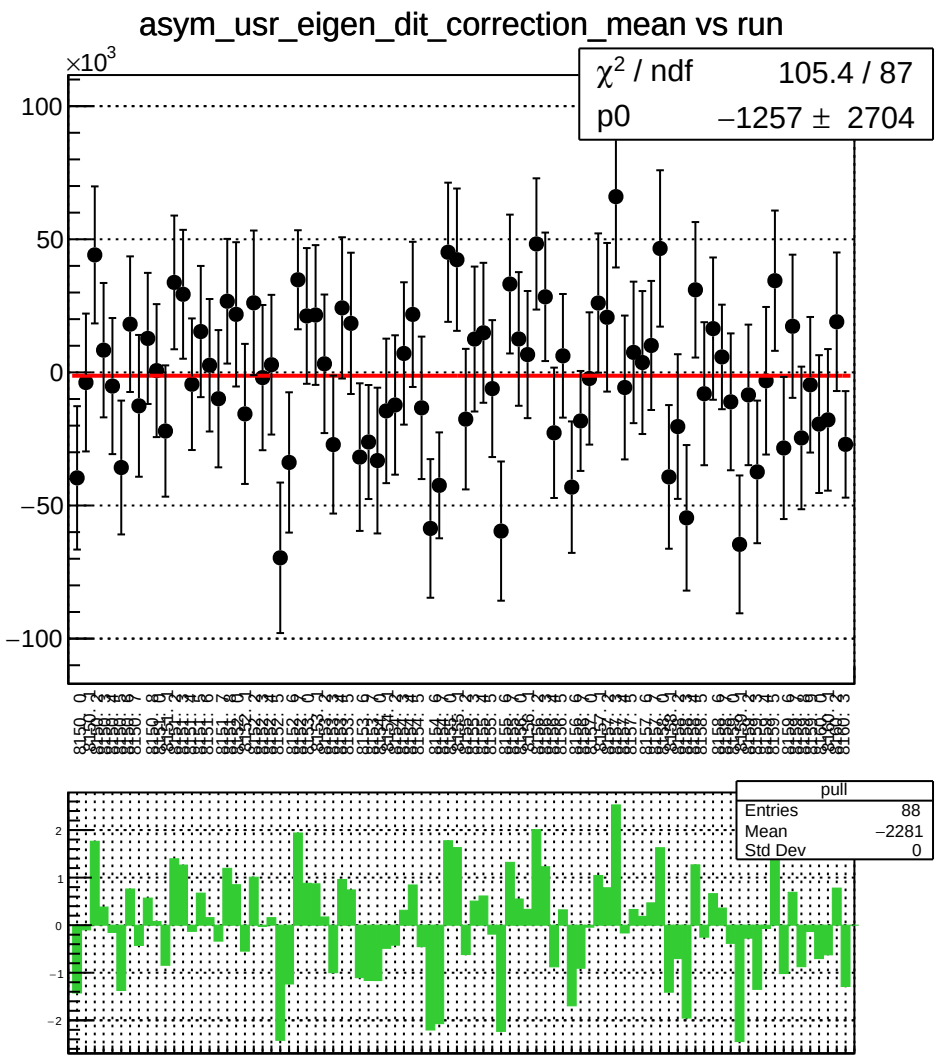

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 105.4 / 87
p0 −1257 ± 2704
100
50
0
−50
−100
pull
Entries 88
Mean −2281
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001151
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

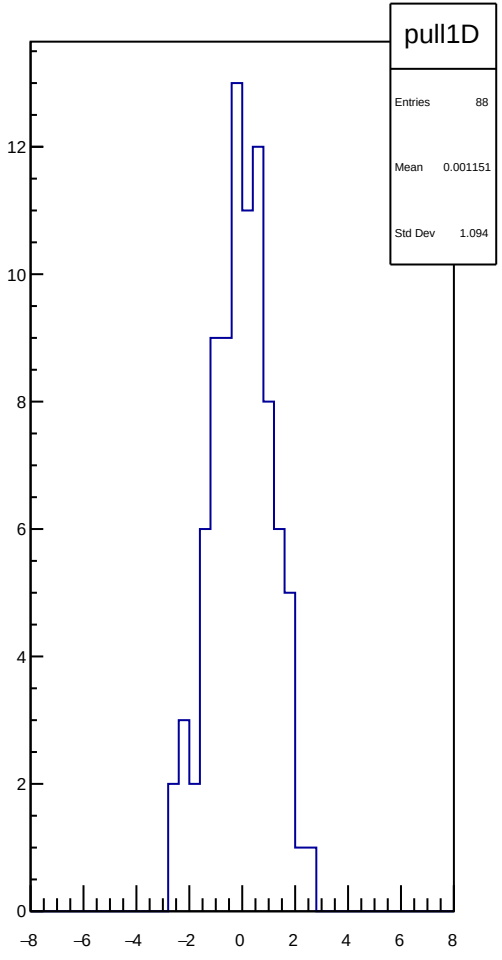

asym_usr_dit_correction_rms vs run
χ² / ndf 2686 / 87
p0 2474 ± 1.912
2800
2700
2600
2500
2400
2300
2200

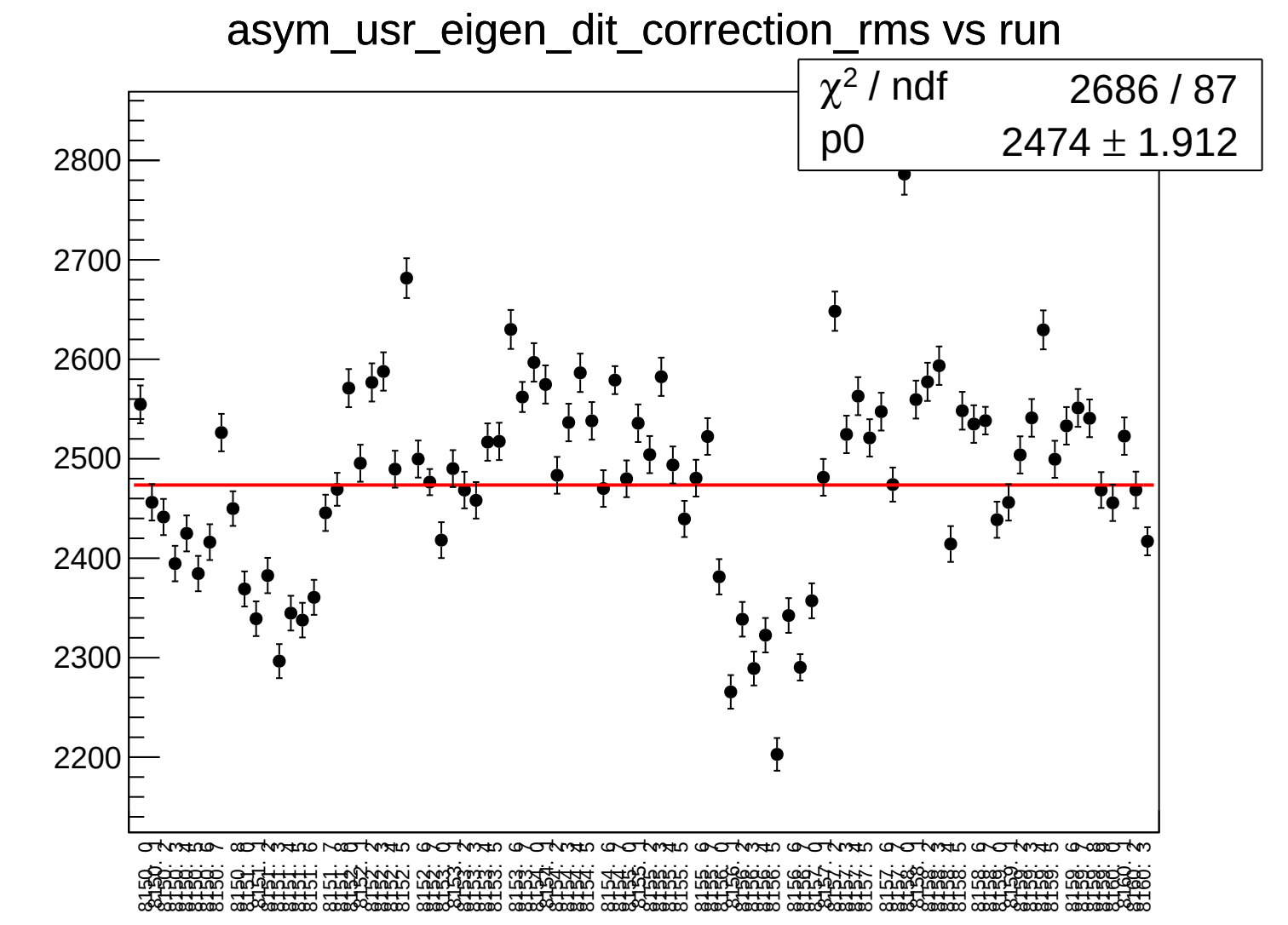

eigen_dit_asym_usr_mean vs run
χ² / ndf 80.35 / 87
p0 −3295 ± 1177
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 88
Mean 1.132e+04
Std Dev 0
2
1
0
−1
−2
−3

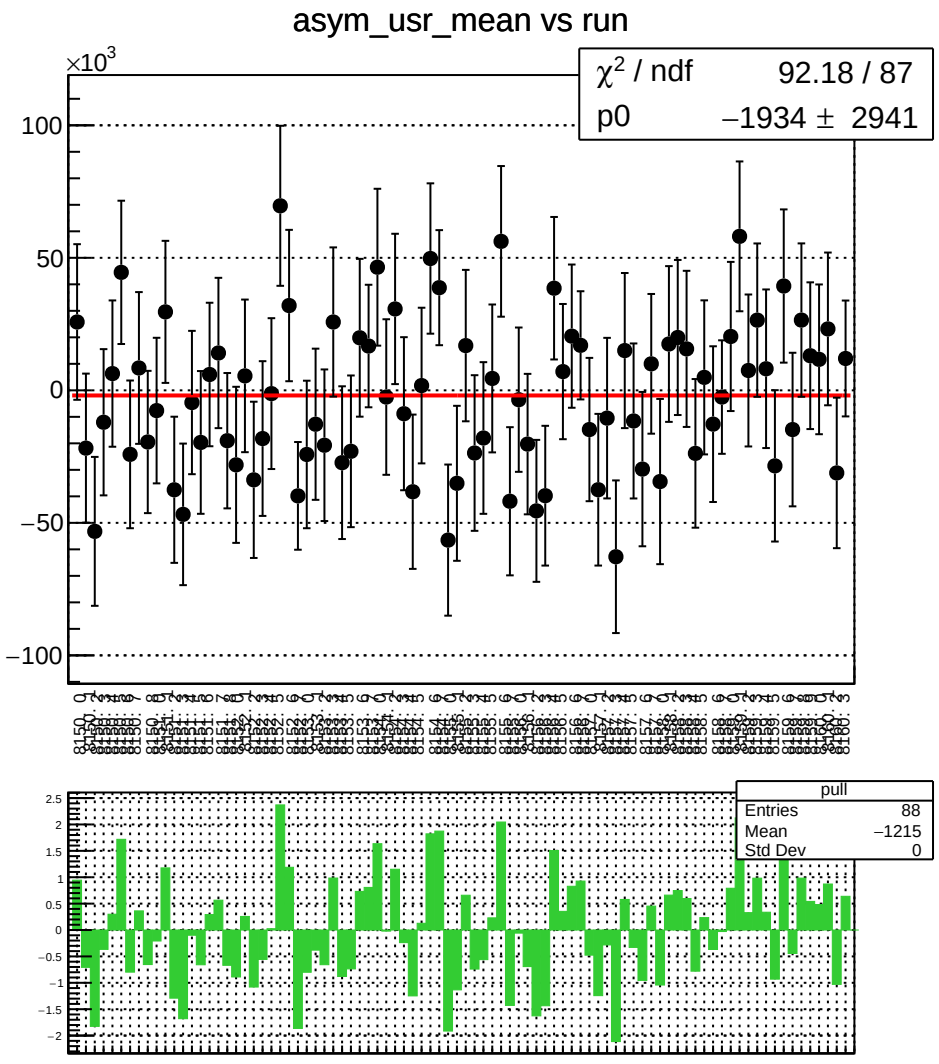

pull1D
Entries 88
Mean 0.0002702
Std Dev 0.9555
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

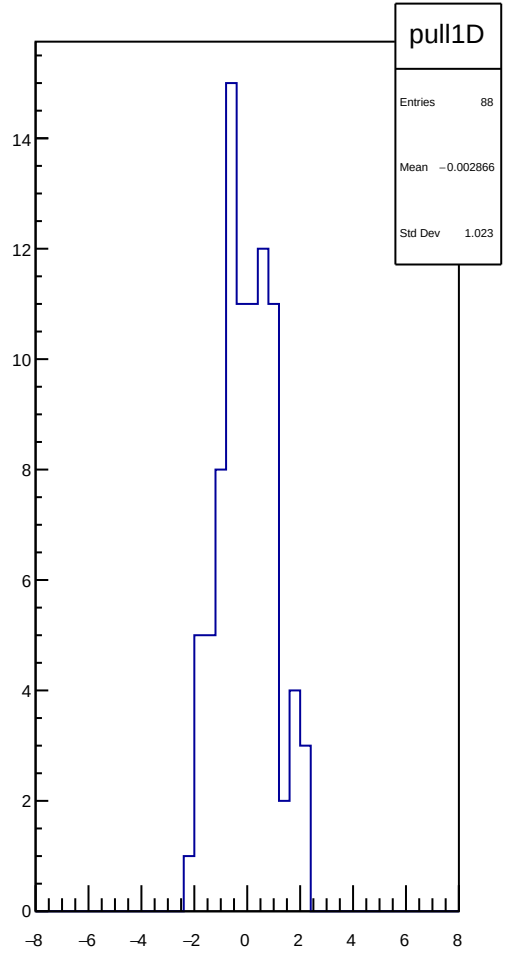

eigen_dit_asym_usr_rms vs run
χ² / ndf 114.9 / 87
p0 1078 ± 0.8326
1110
1100
1090
1080
1070
1060
1050

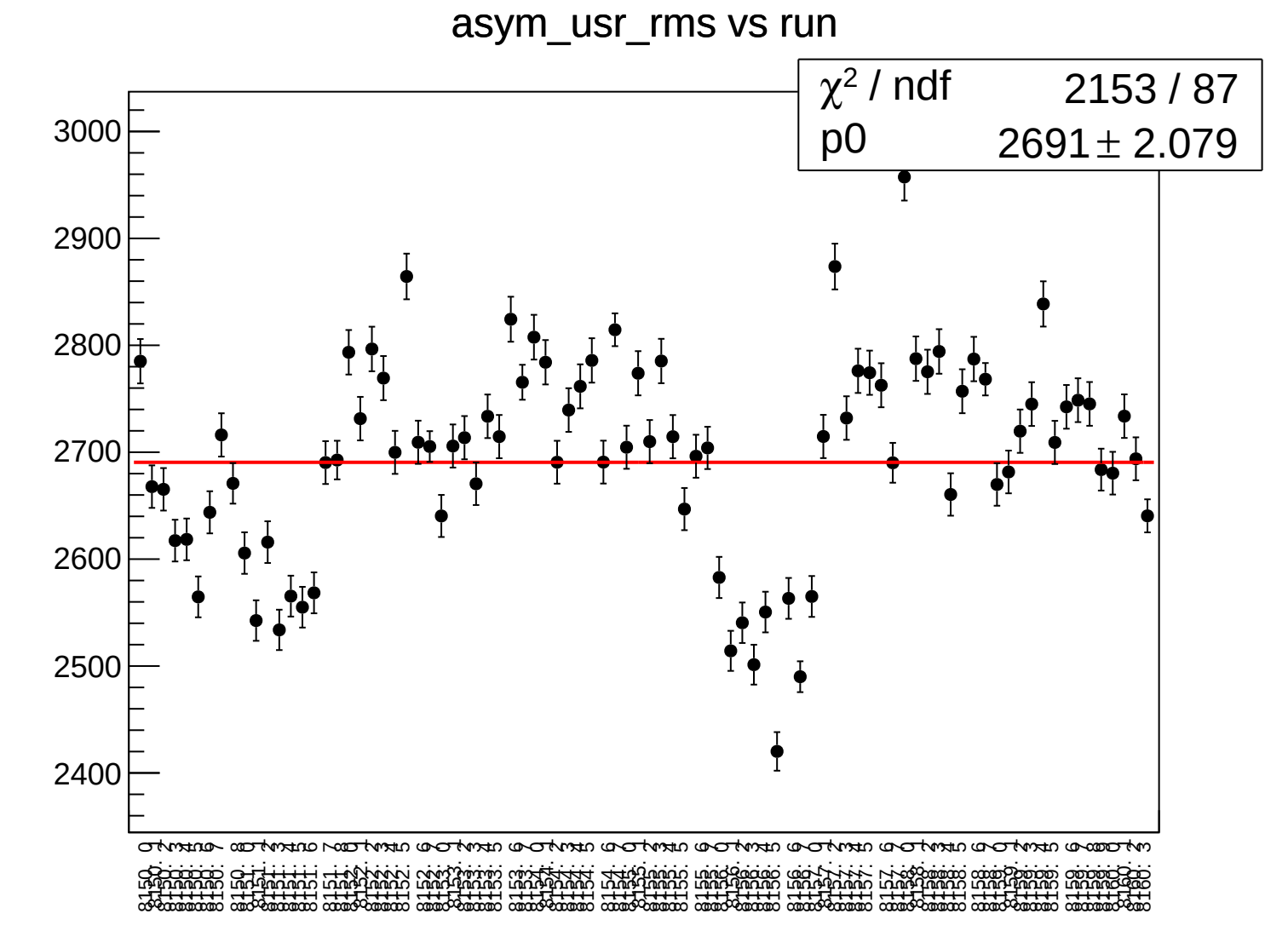

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 105.4 / 87
p0 −1257 ± 2704
100
50
0
−50
−100
pull
Entries 88
Mean −2281
Std Dev 0
2
1
0
−1
−2

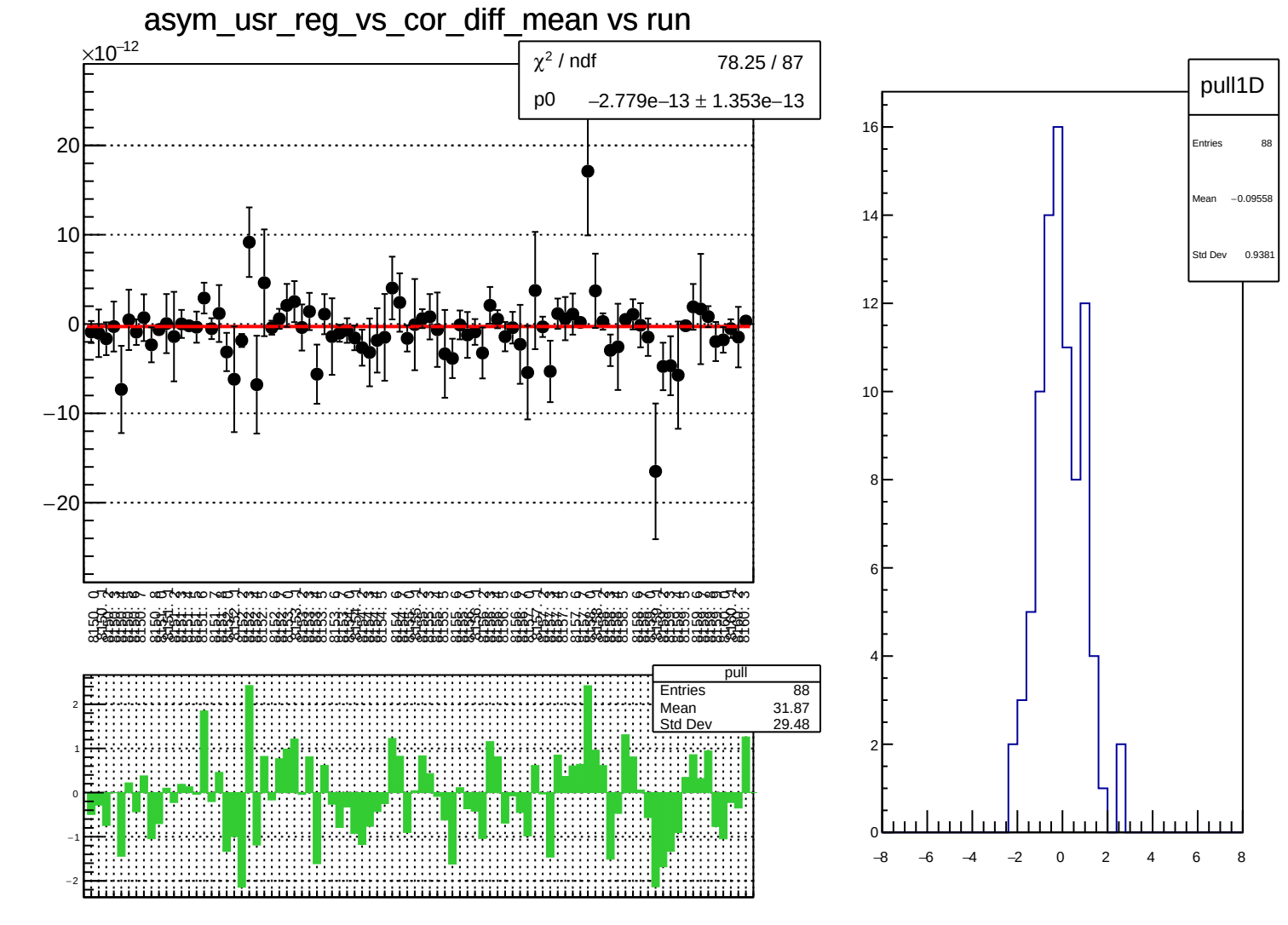

pull1D
Entries 88
Mean 0.001151
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

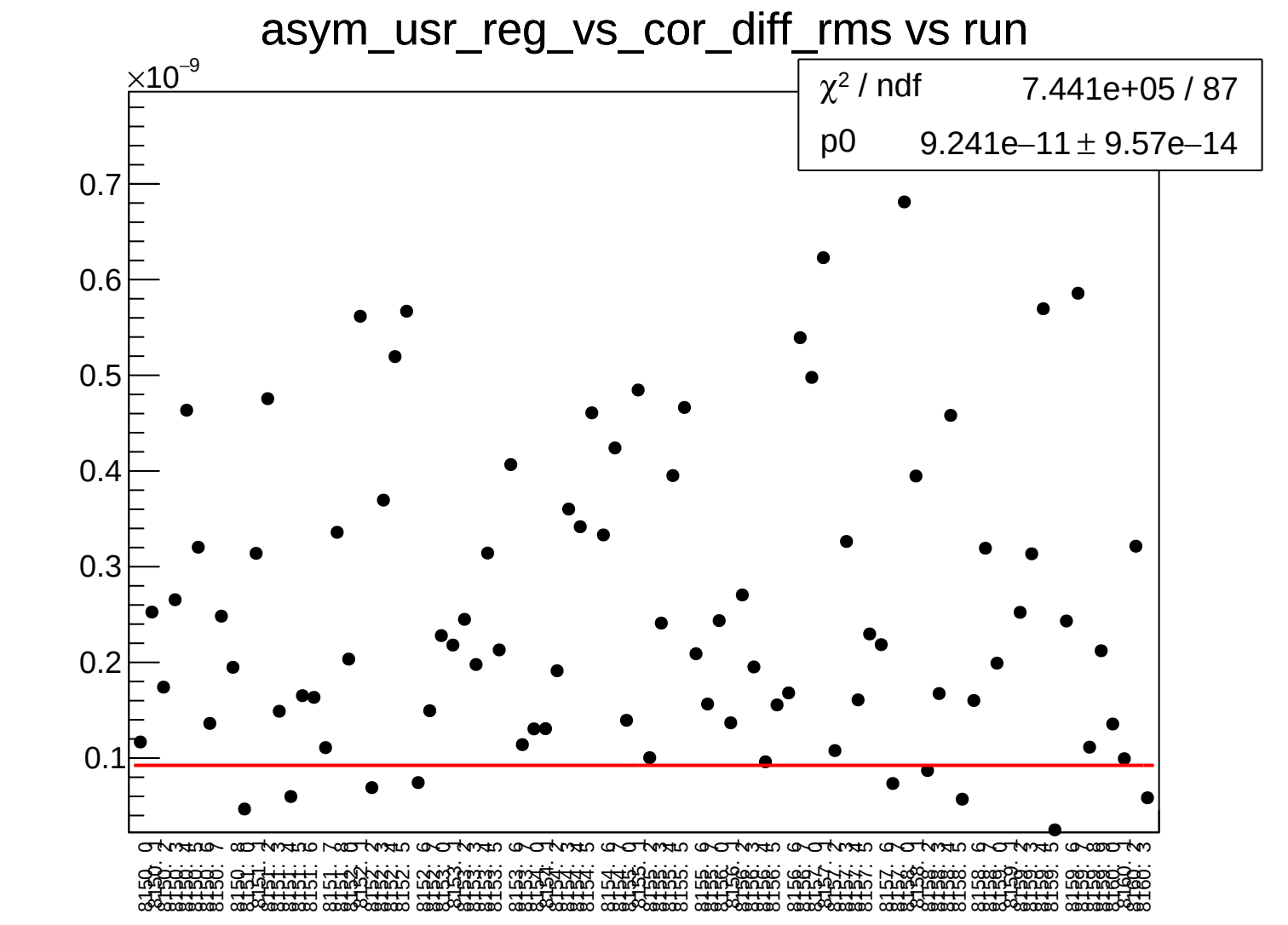

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 2686 / 87
p0 2474 ± 1.912
2800
2700
2600
2500
2400
2300
2200

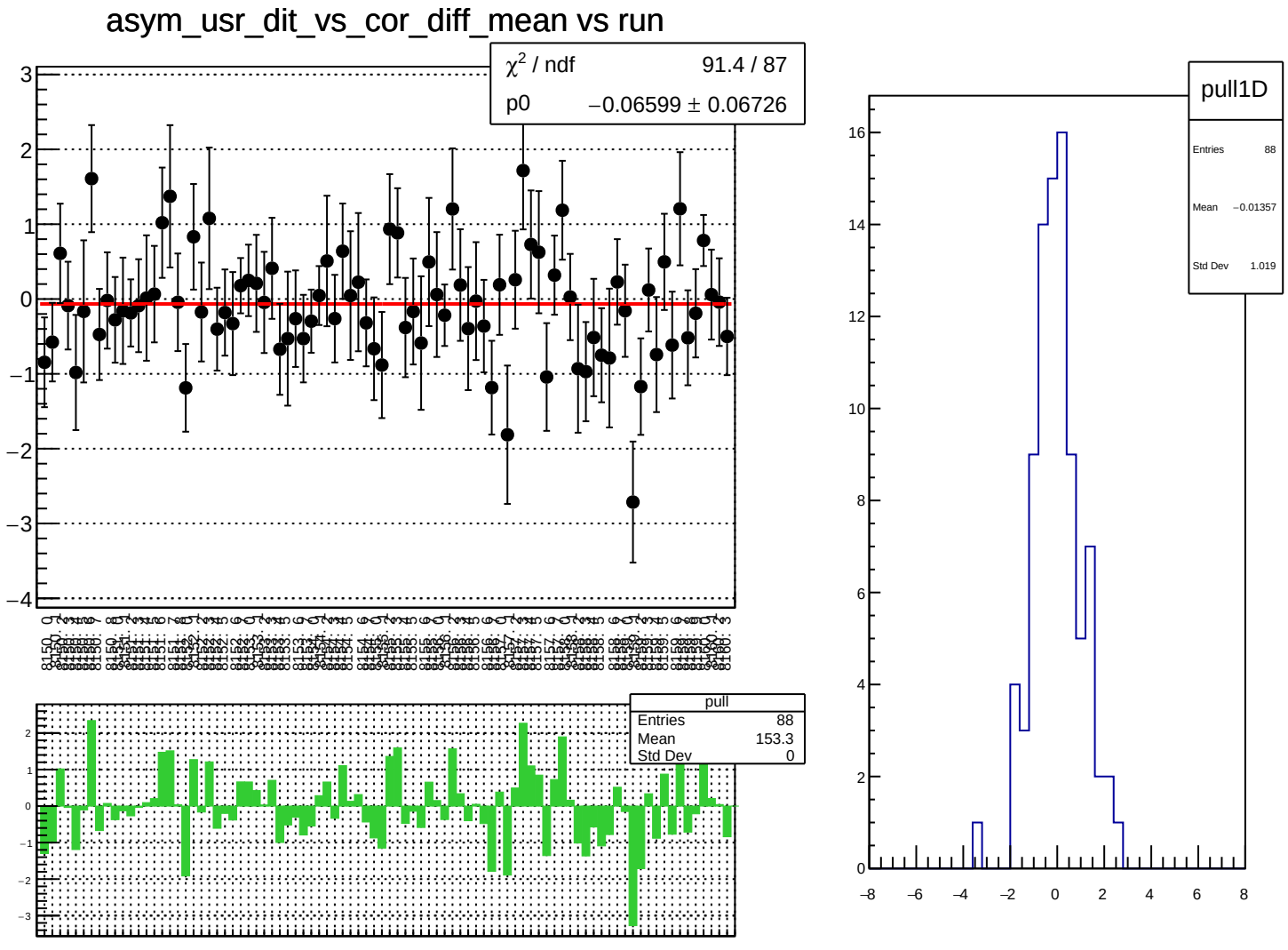

asym_usr_mean vs run
×10^3
χ² / ndf 92.18 / 87
p0 −1934 ± 2941
100
50
0
−50
−100
pull
Entries 88
Mean −1215
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

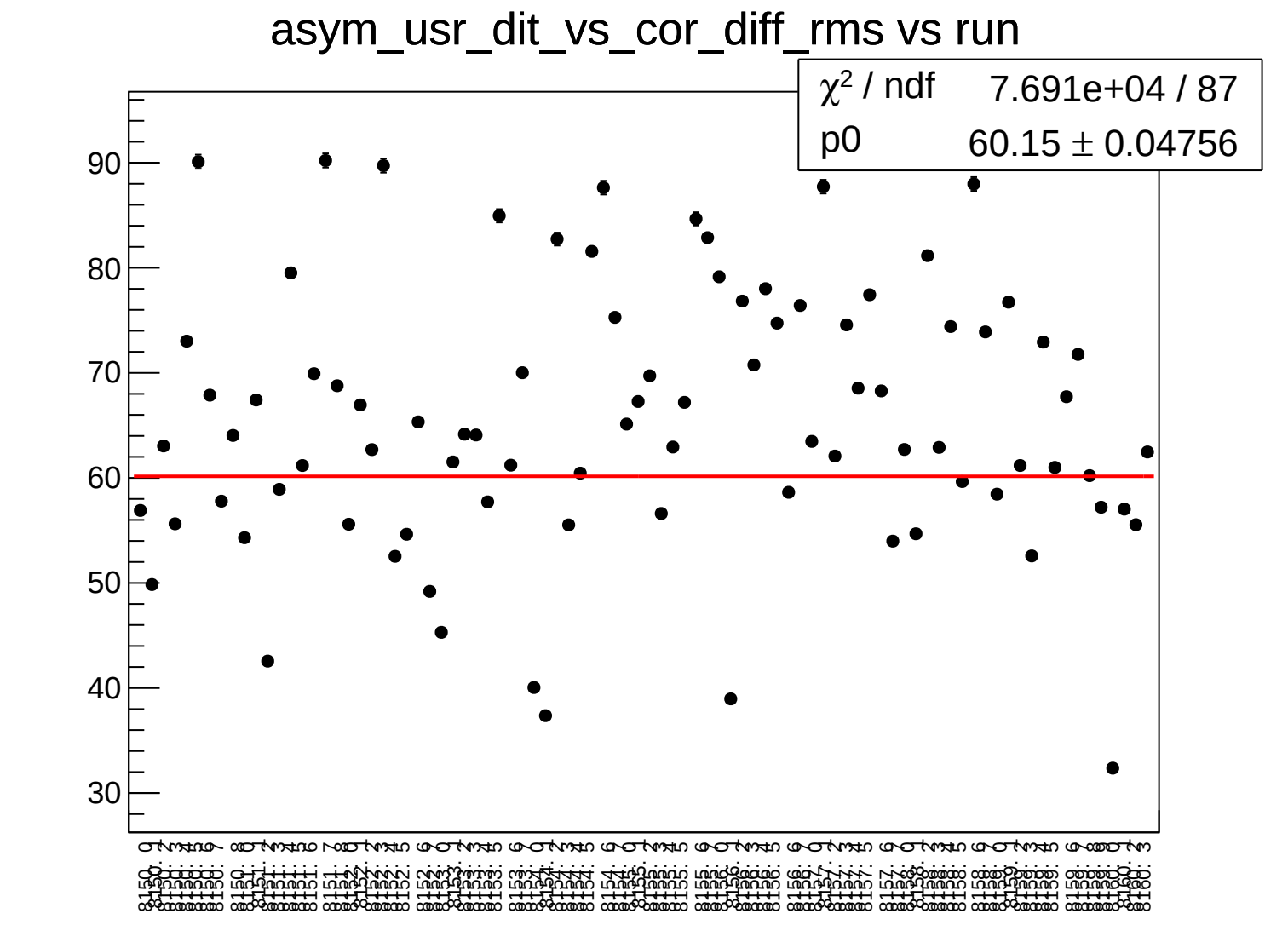

pull1D
Entries 88
Mean −0.002866
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

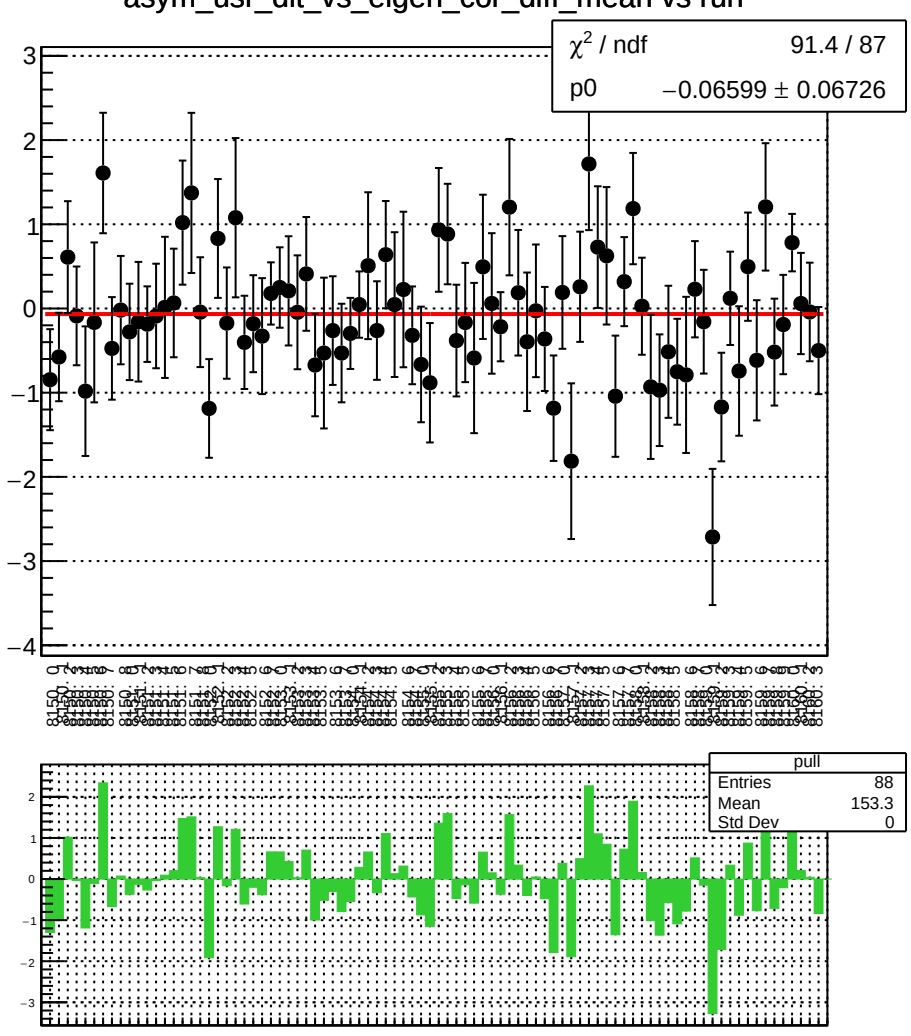

asym_usr_rms vs run
χ² / ndf 2153 / 87
p0 2691 ± 2.079
3000
2900
2800
2700
2600
2500
2400

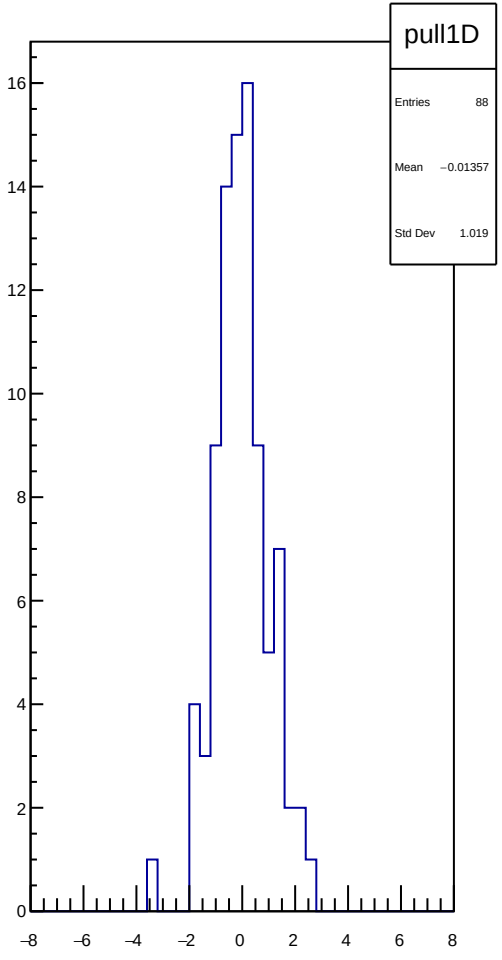

asym_usr_reg_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 78.25 / 87
p0 −2.779e−13 ± 1.353e−13
20
10
0
−10
−20
pull
Entries 88
Mean 31.87
Std Dev 29.48
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.09558
Std Dev 0.9381
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

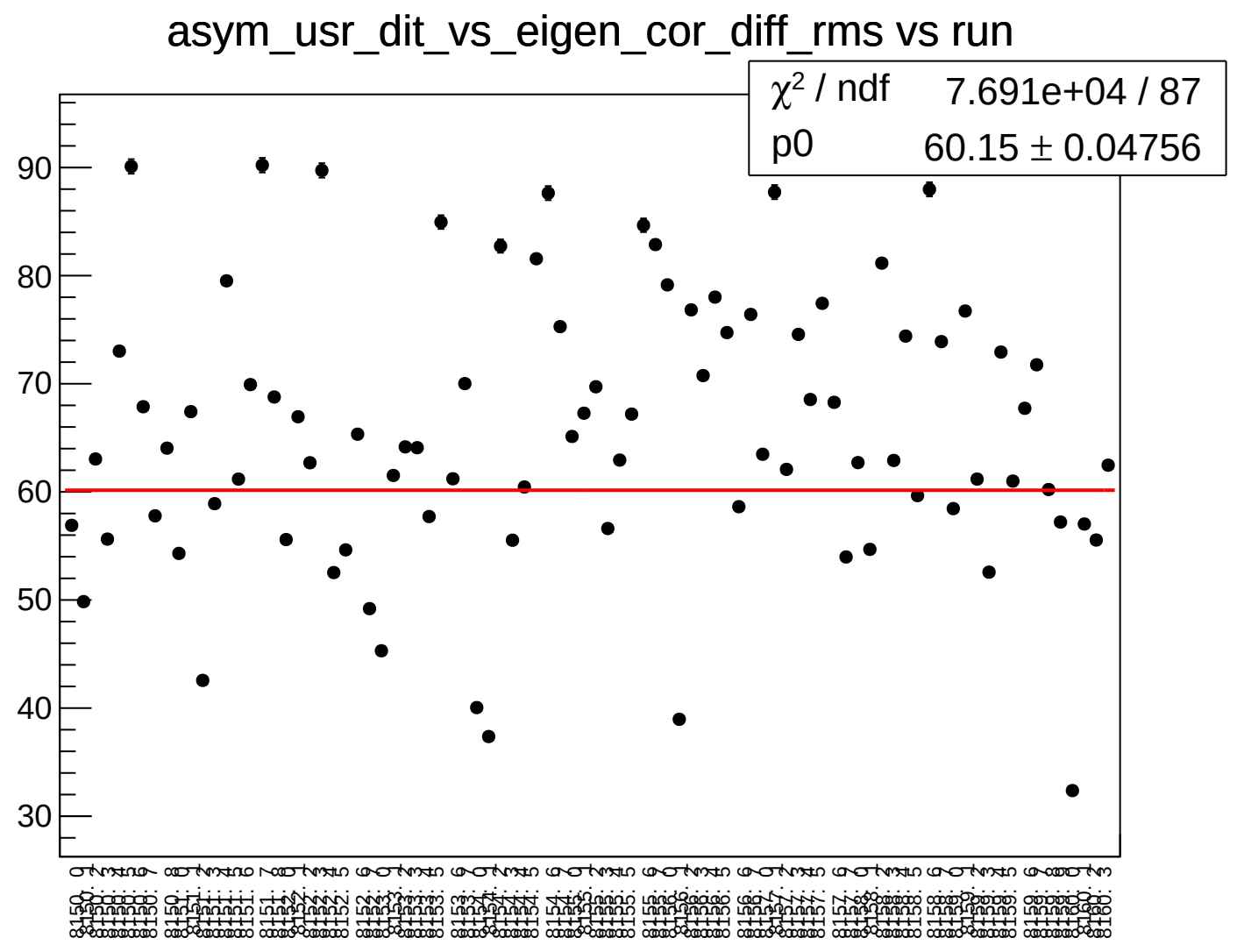

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.441e+05 / 87
p0 9.241e−11 ± 9.57e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

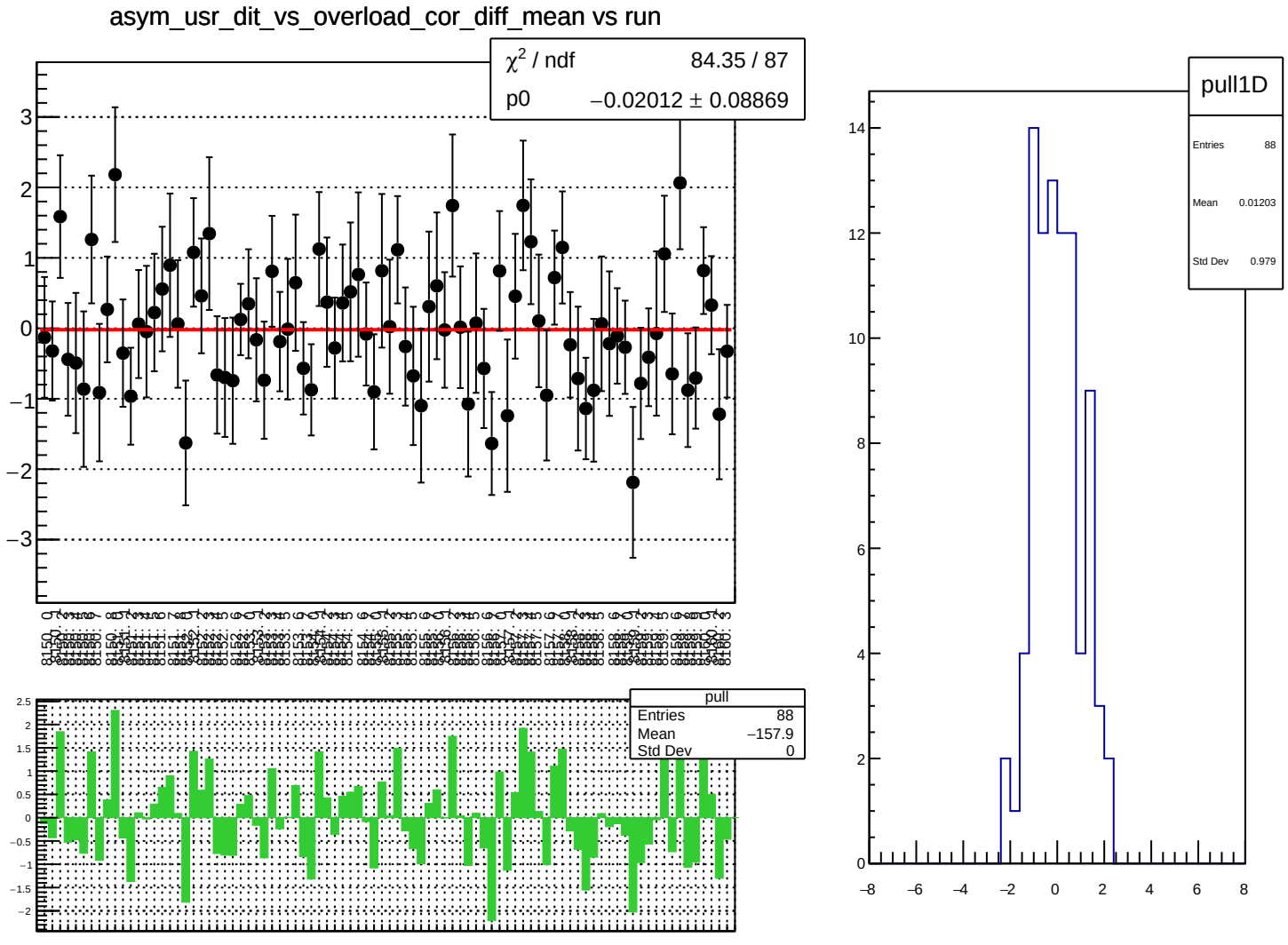

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 91.4 / 87
p0 −0.06599 ± 0.06726
pull
Entries 88
Mean 153.3
Std Dev 0
pull1D
Entries 88
Mean −0.01357
Std Dev 1.019

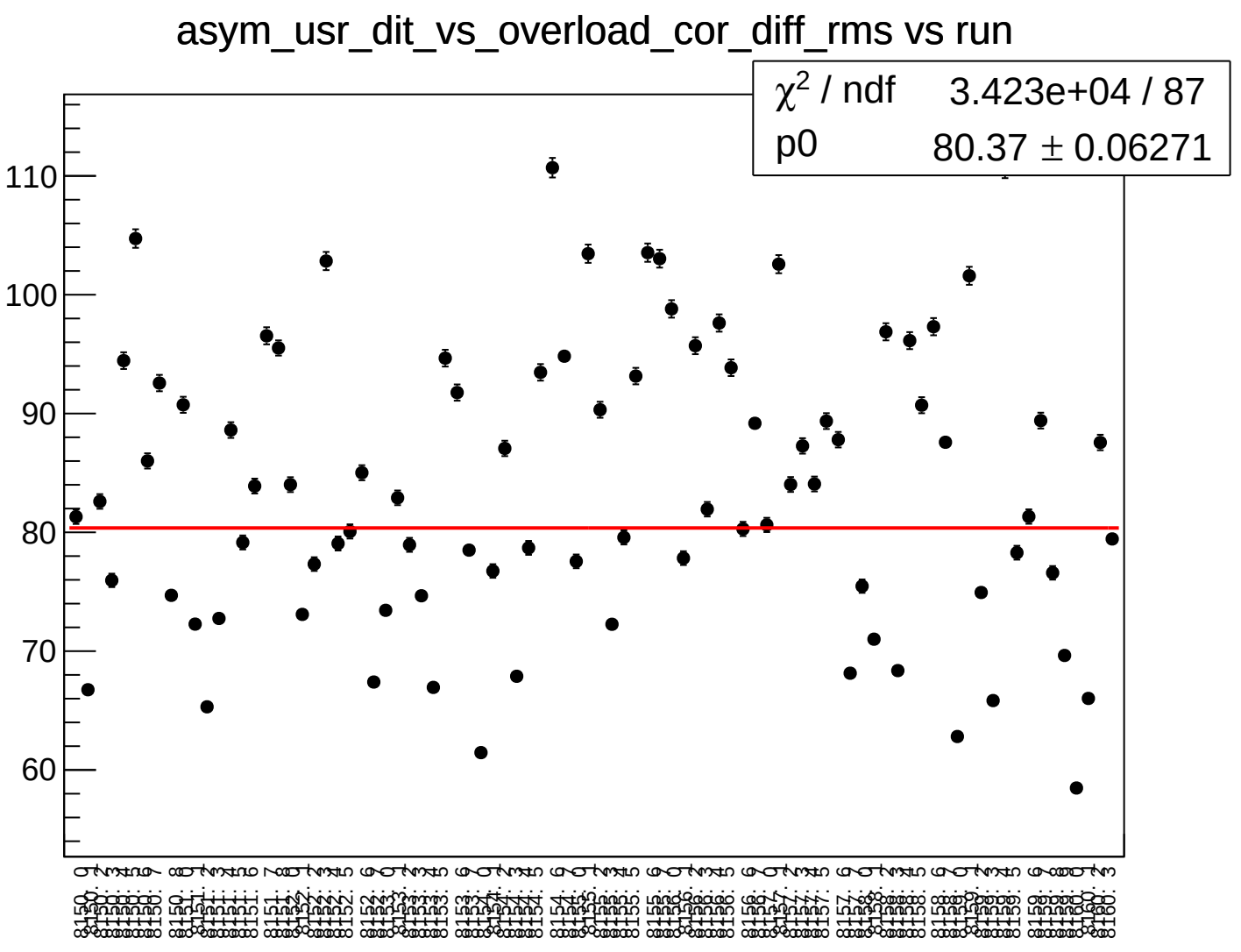

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 7.691e+04 / 87
p0 60.15 ± 0.04756
90
80
70
60
50
40
30

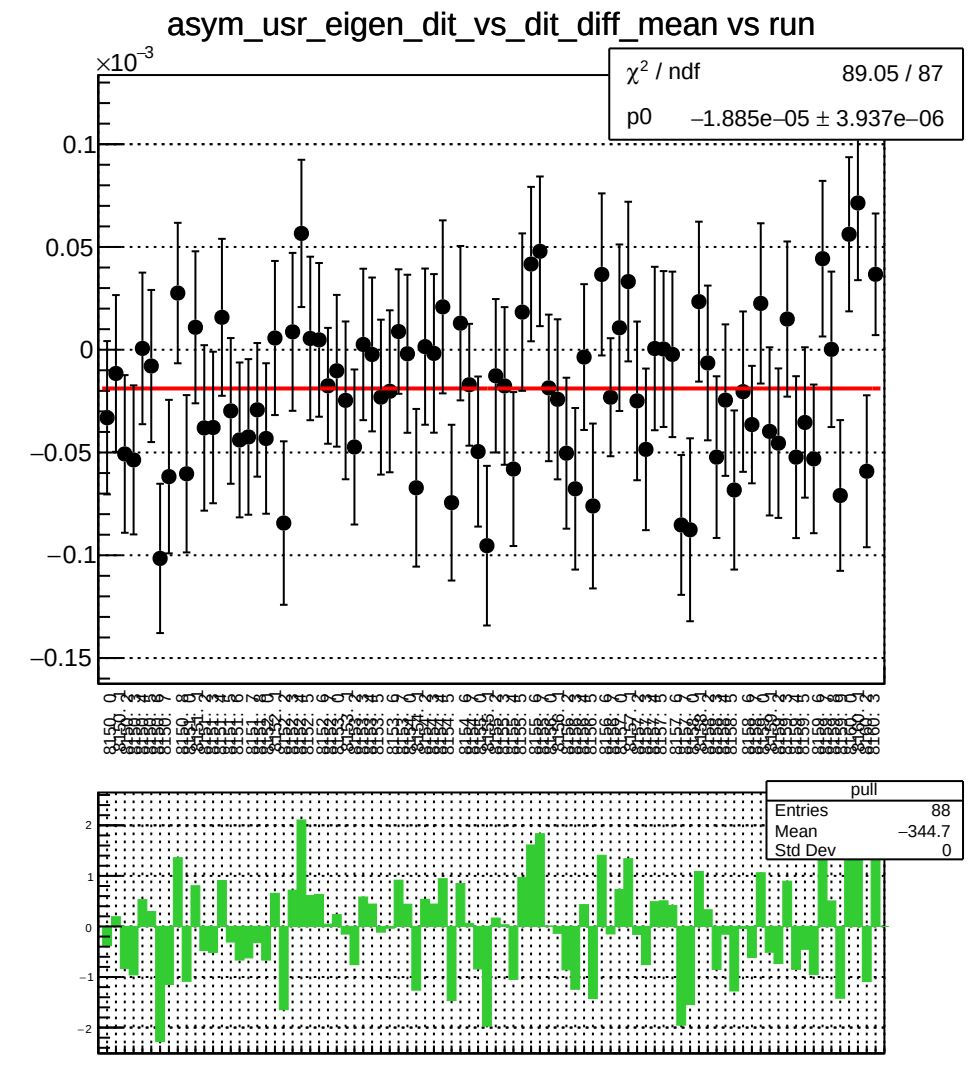

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.4 / 87
p0 −0.06599 ± 0.06726
pull
Entries 88
Mean 153.3
Std Dev 0

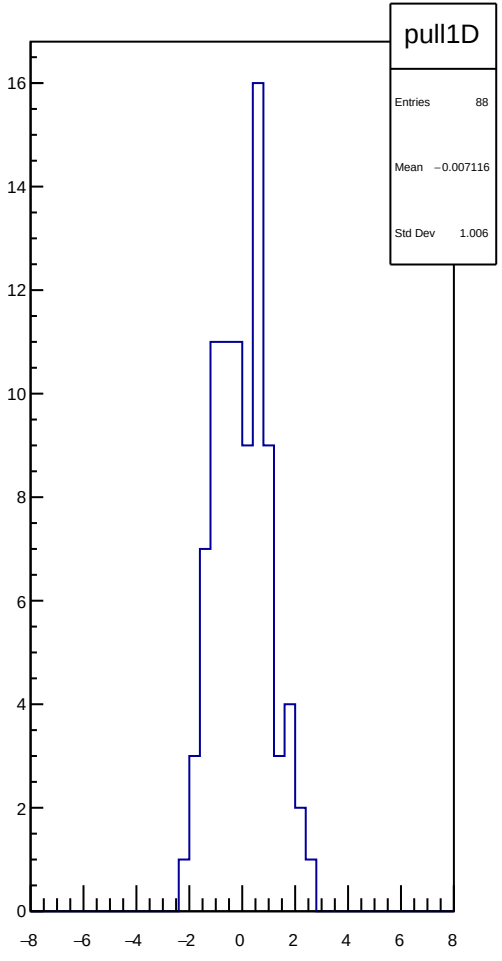

pull1D
Entries 88
Mean −0.01357
Std Dev 1.019

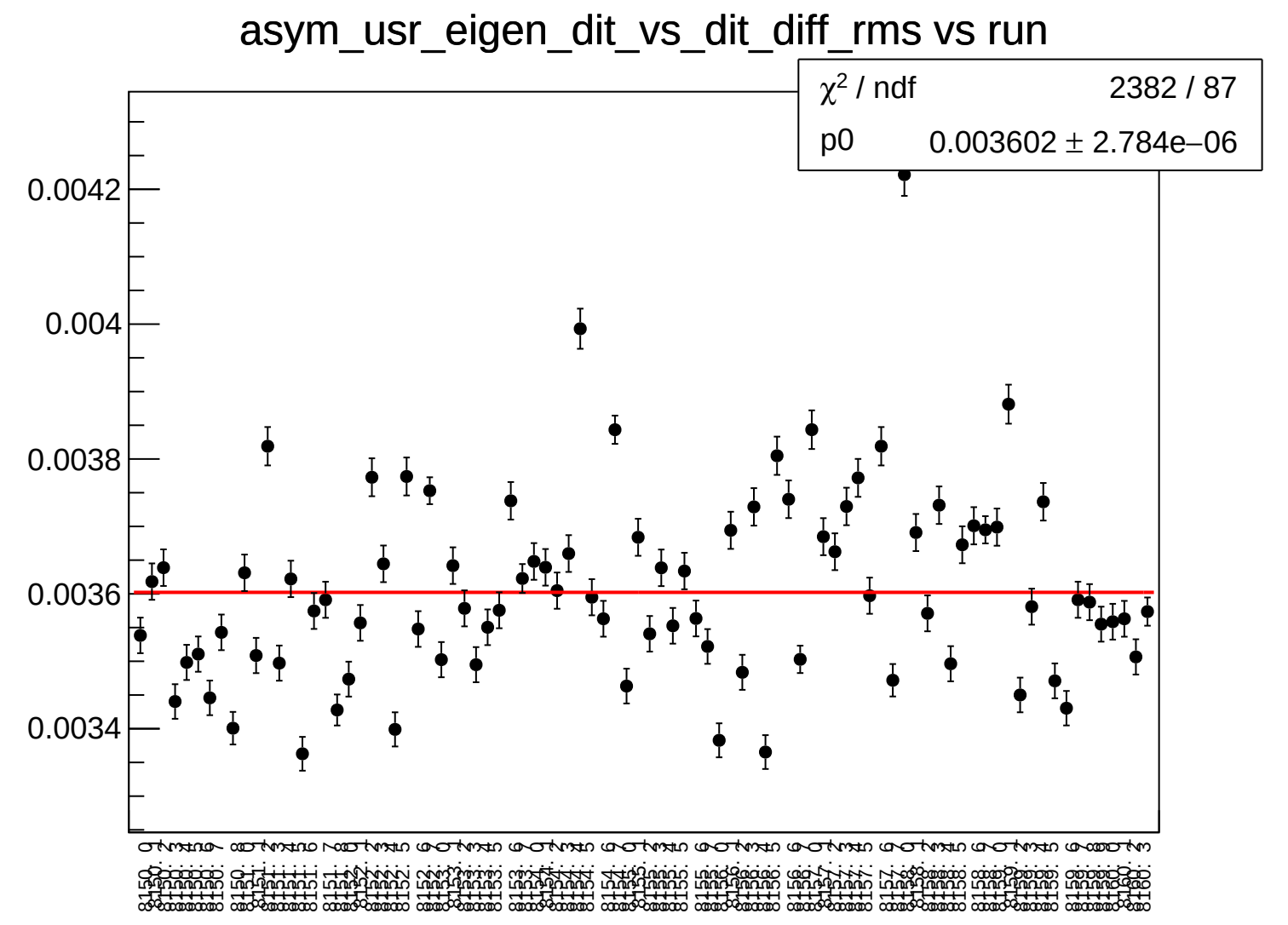

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.691e+04 / 87
p0 60.15 ± 0.04756
90
80
70
60
50
40
30

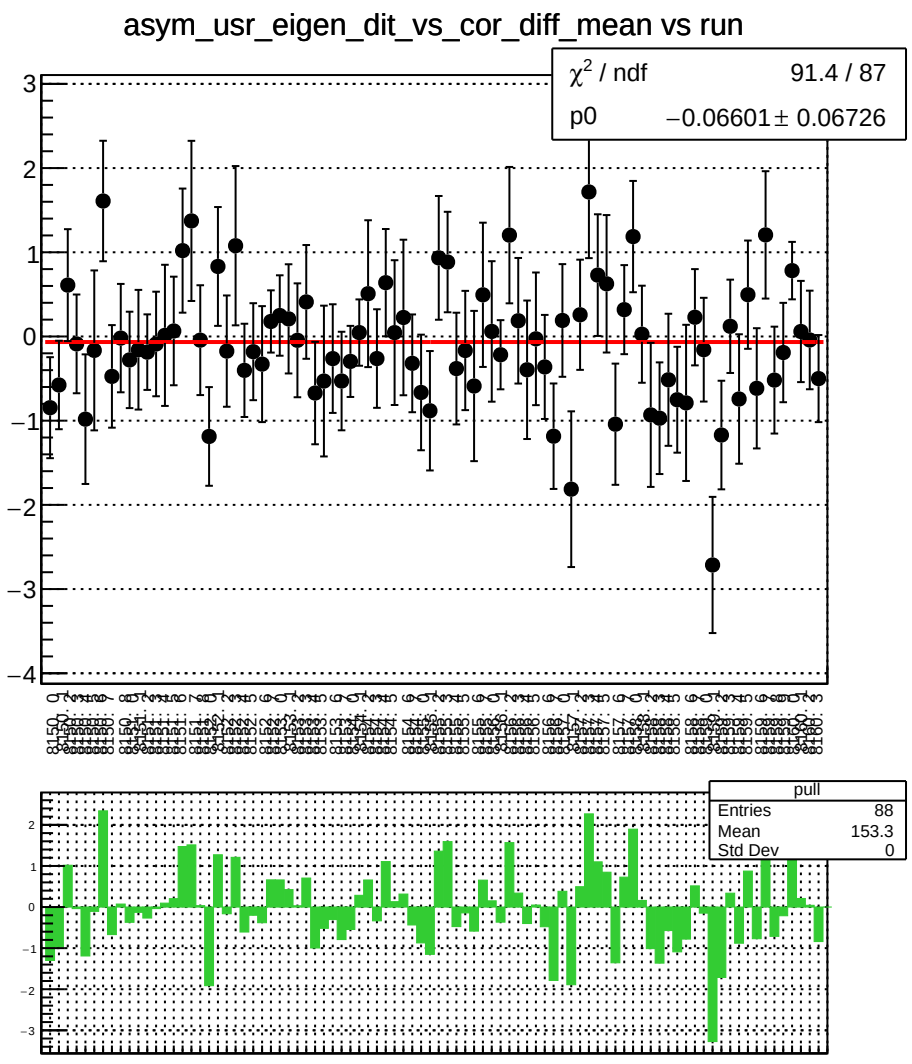

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.35 / 87
p0 −0.02012 ± 0.08869
pull
Entries 88
Mean −157.9
Std Dev 0
pull1D
Entries 88
Mean 0.01203
Std Dev 0.979

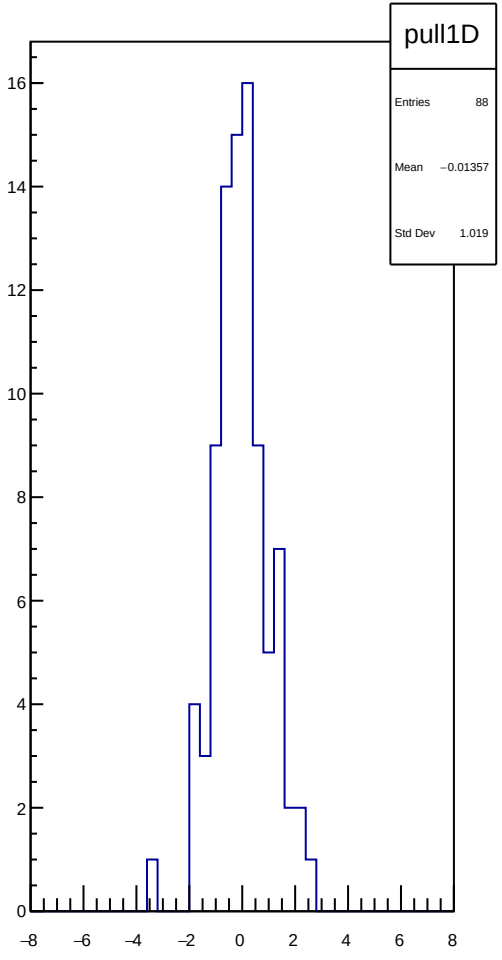

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 3.423e+04 / 87
p0 80.37 ± 0.06271
110
100
90
80
70
60

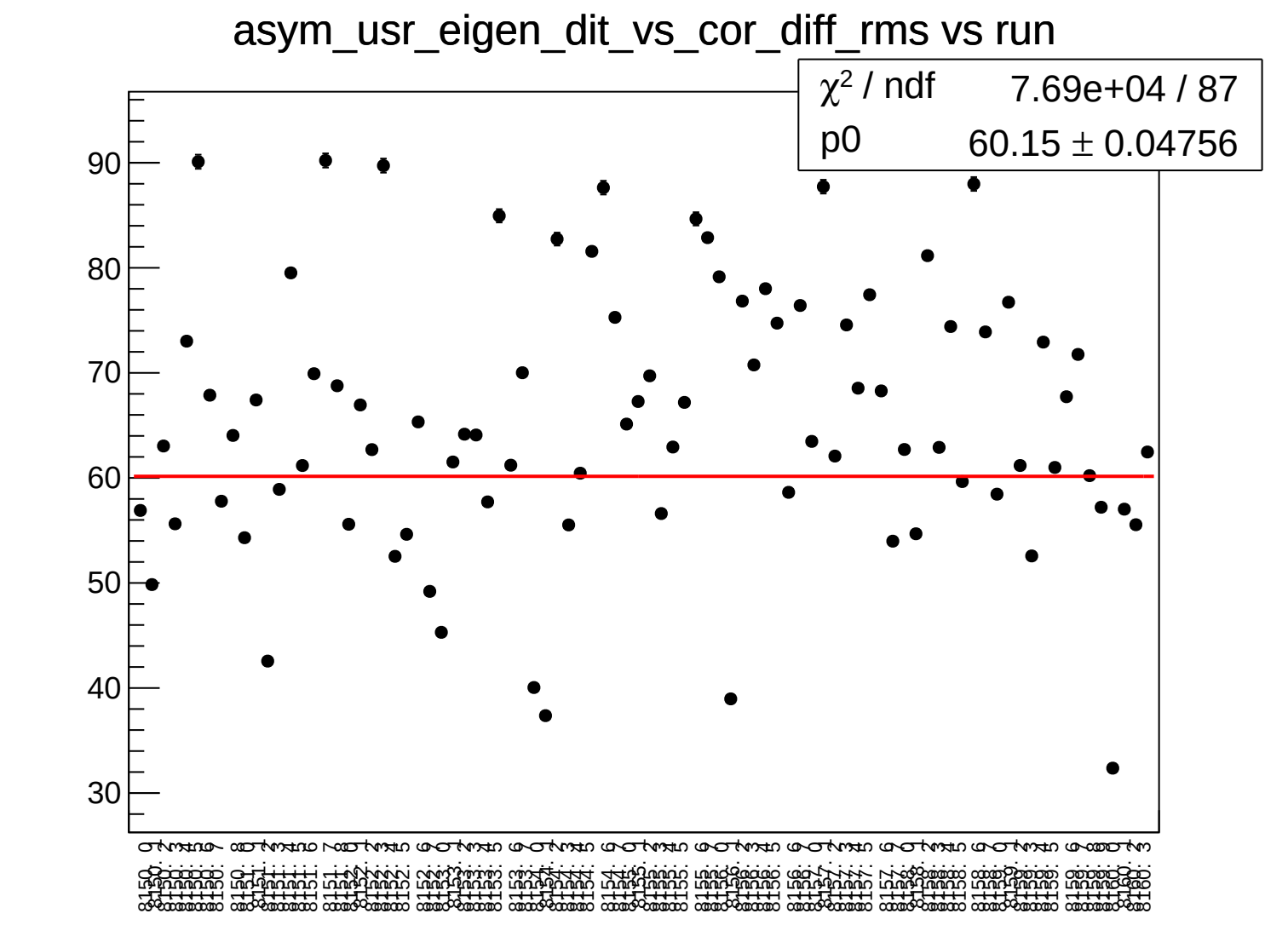

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.05 / 87
p0 −1.885e−05 ± 3.937e−06
pull
Entries 88
Mean −344.7
Std Dev 0

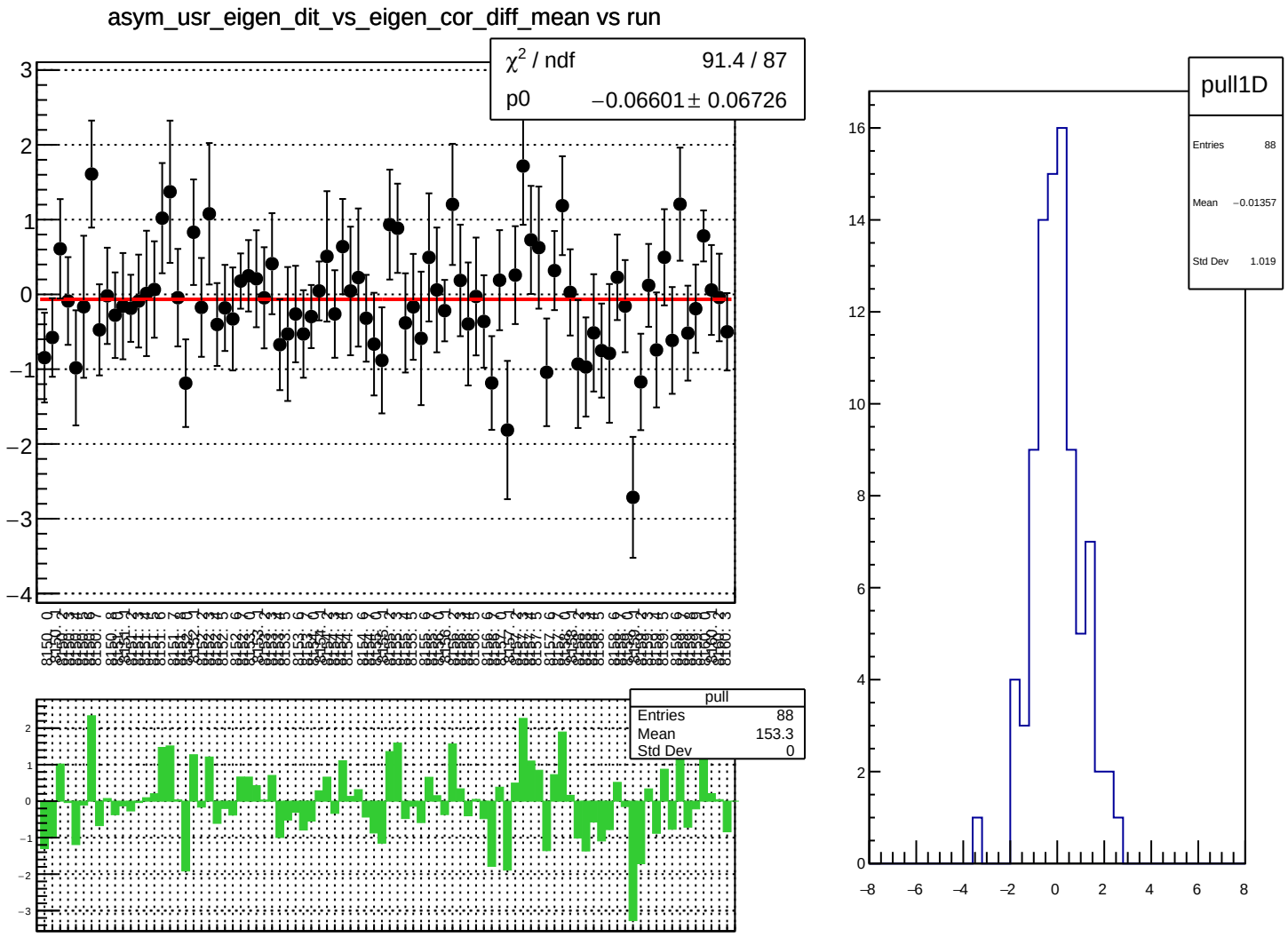

pull1D
Entries 88
Mean −0.007116
Std Dev 1.006

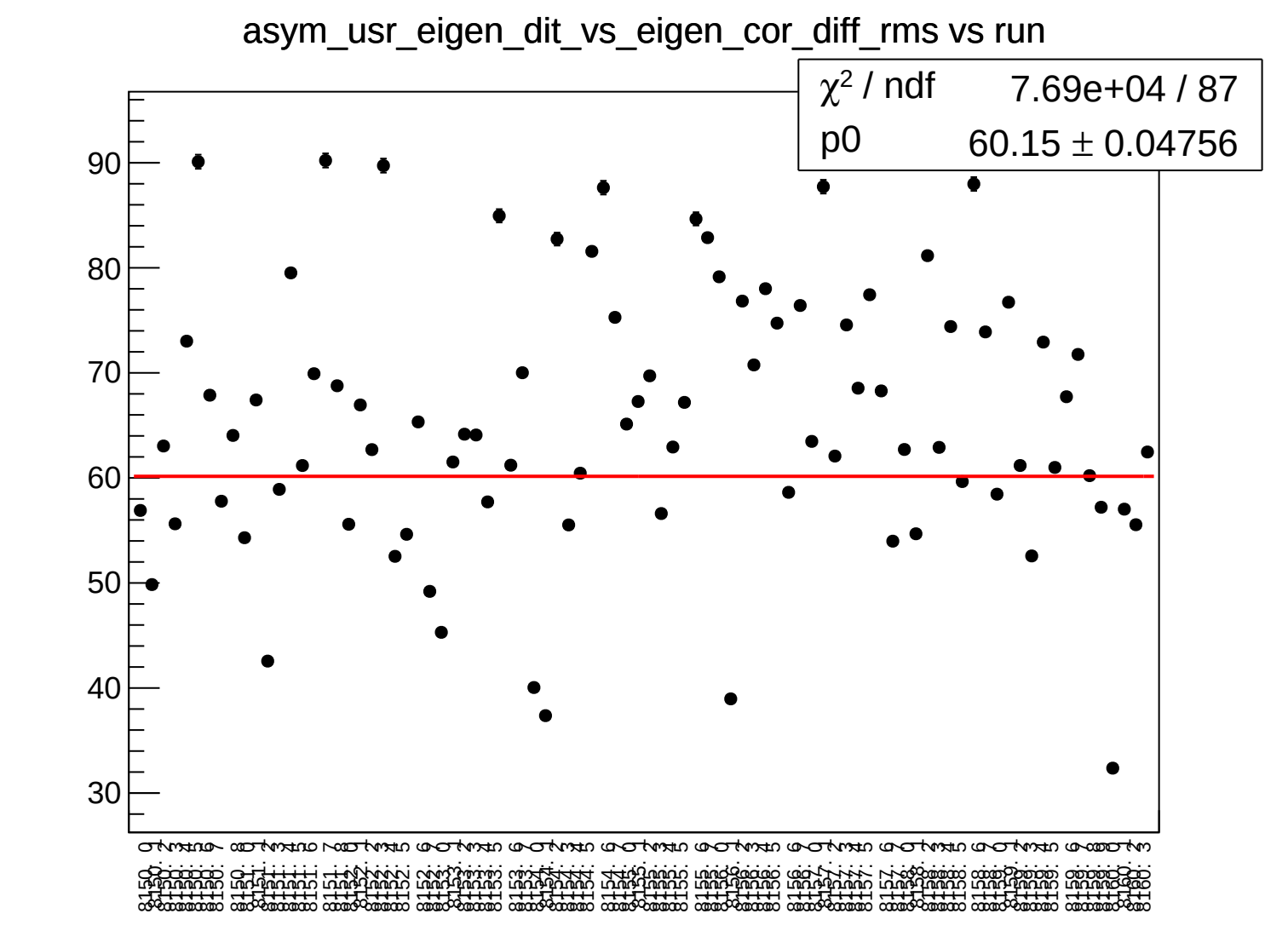

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2382 / 87
p0 0.003602 ± 2.784e−06
0.0042
0.004
0.0038
0.0036
0.0034

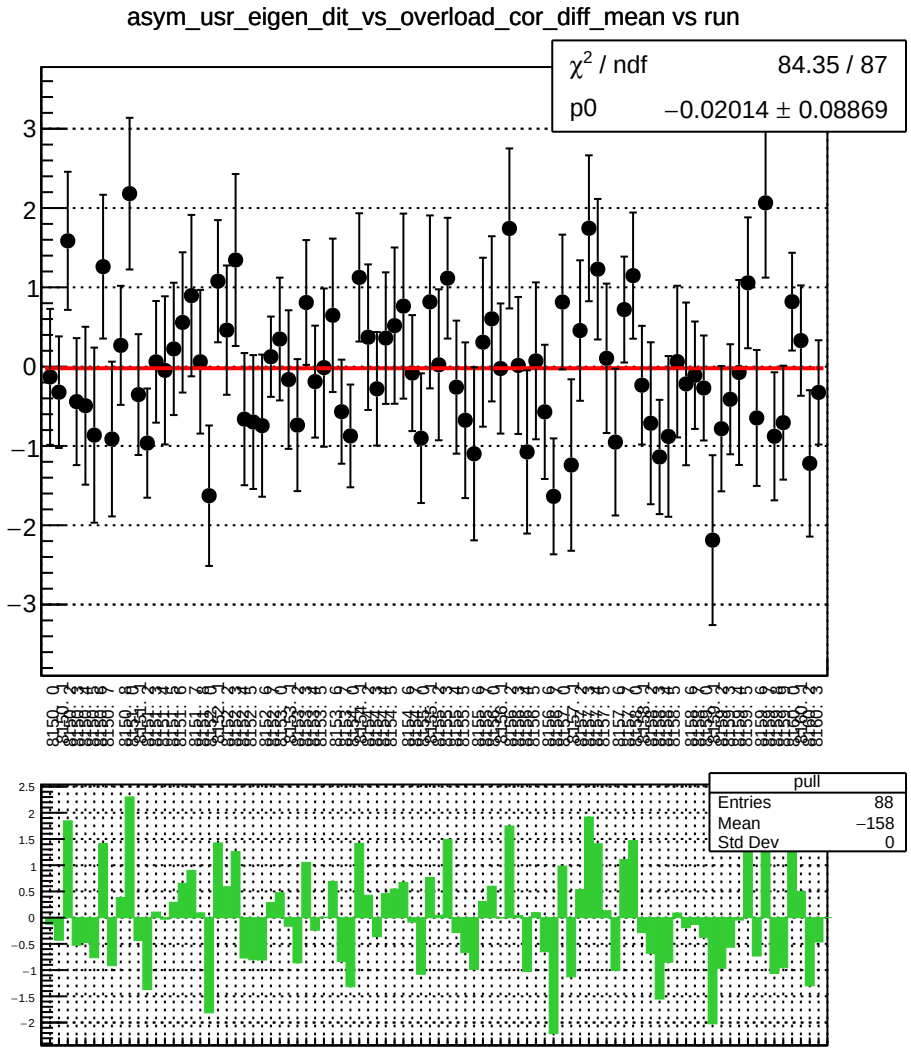

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.4 / 87
p0 −0.06601 ± 0.06726
pull
Entries 88
Mean 153.3
Std Dev 0

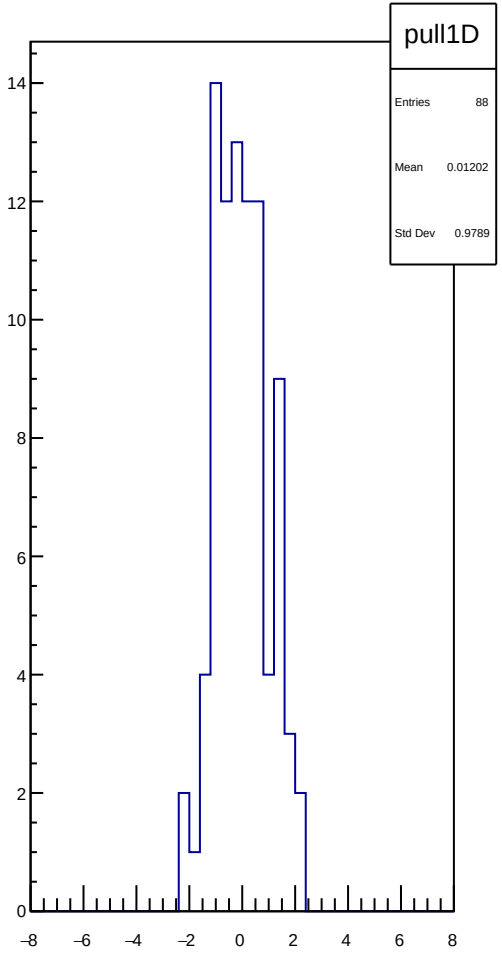

pull1D
Entries 88
Mean −0.01357
Std Dev 1.019

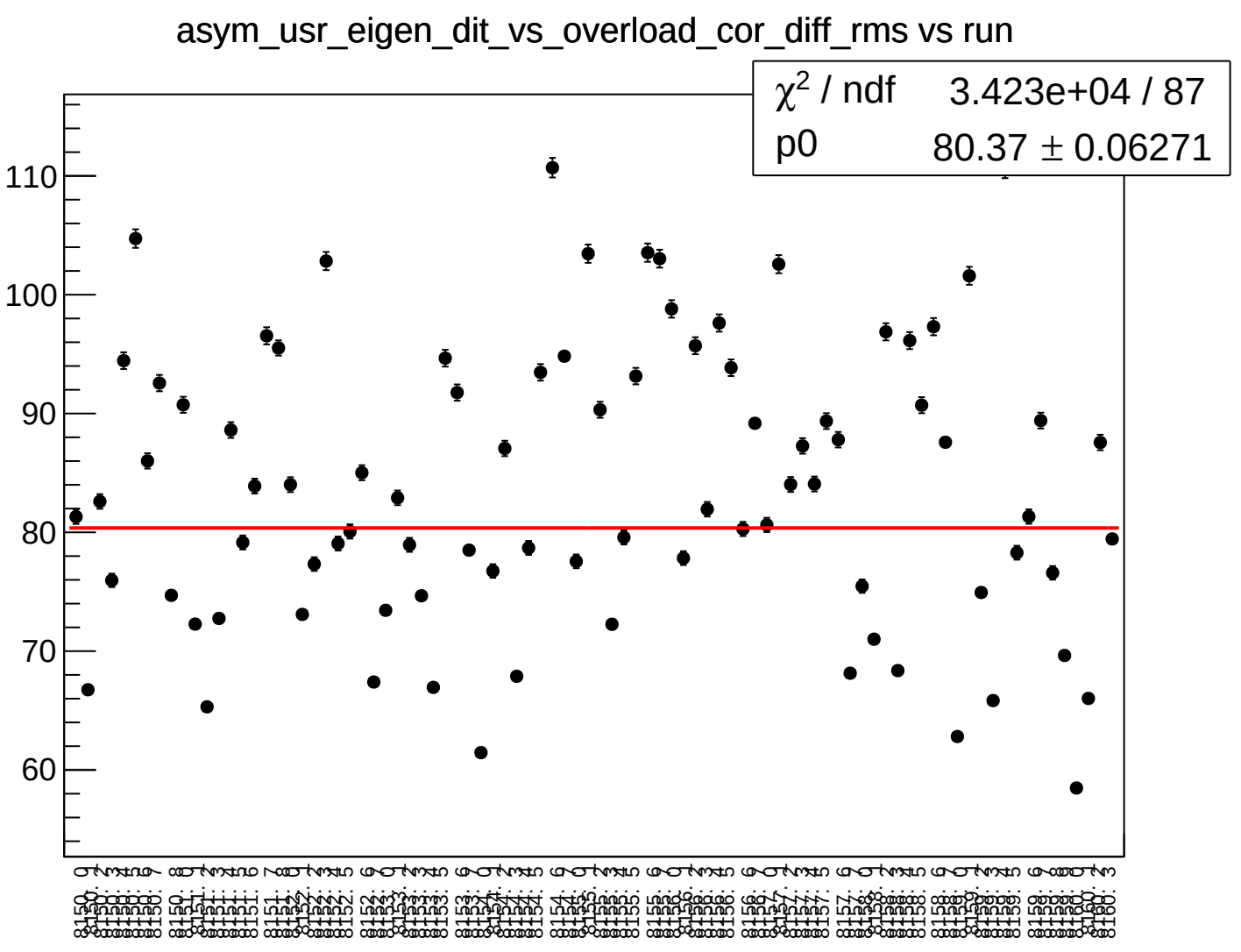

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.69e+04 / 87
p0 60.15 ± 0.04756
90
80
70
60
50
40
30

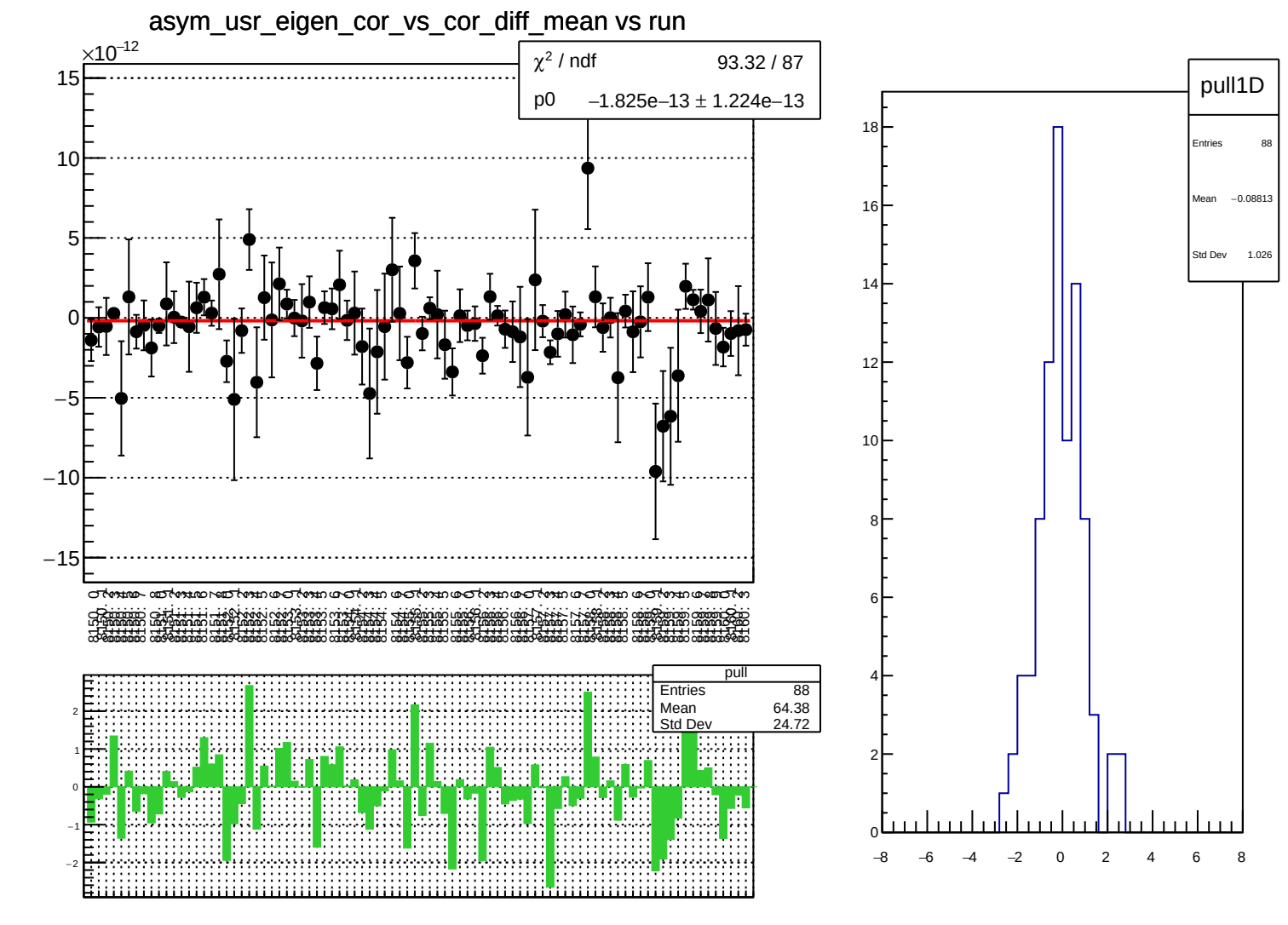

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.4 / 87
p0 −0.06601 ± 0.06726
pull
Entries 88
Mean 153.3
Std Dev 0
pull1D
Entries 88
Mean −0.01357
Std Dev 1.019

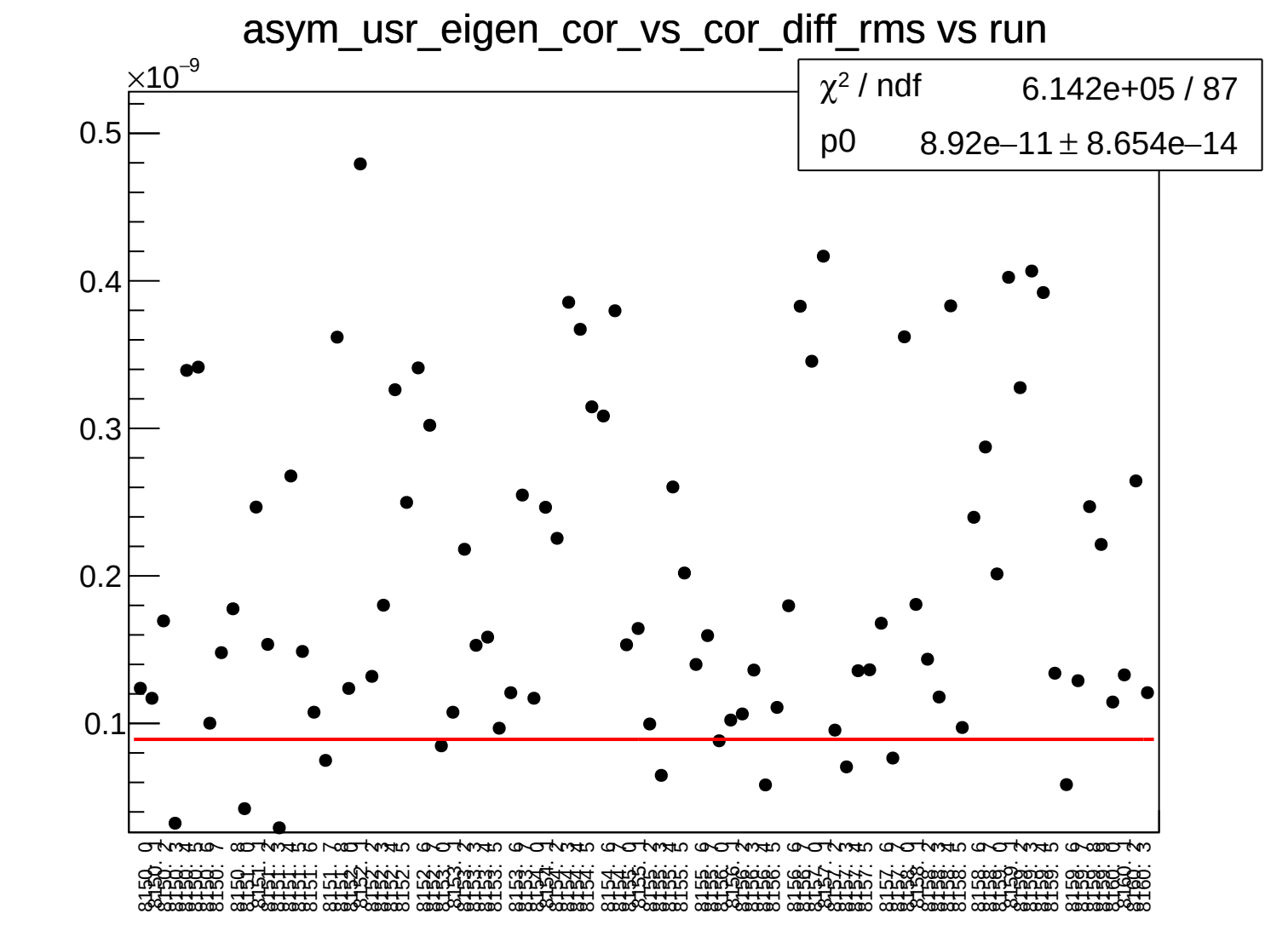

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.69e+04 / 87
p0 60.15 ± 0.04756
90
80
70
60
50
40
30

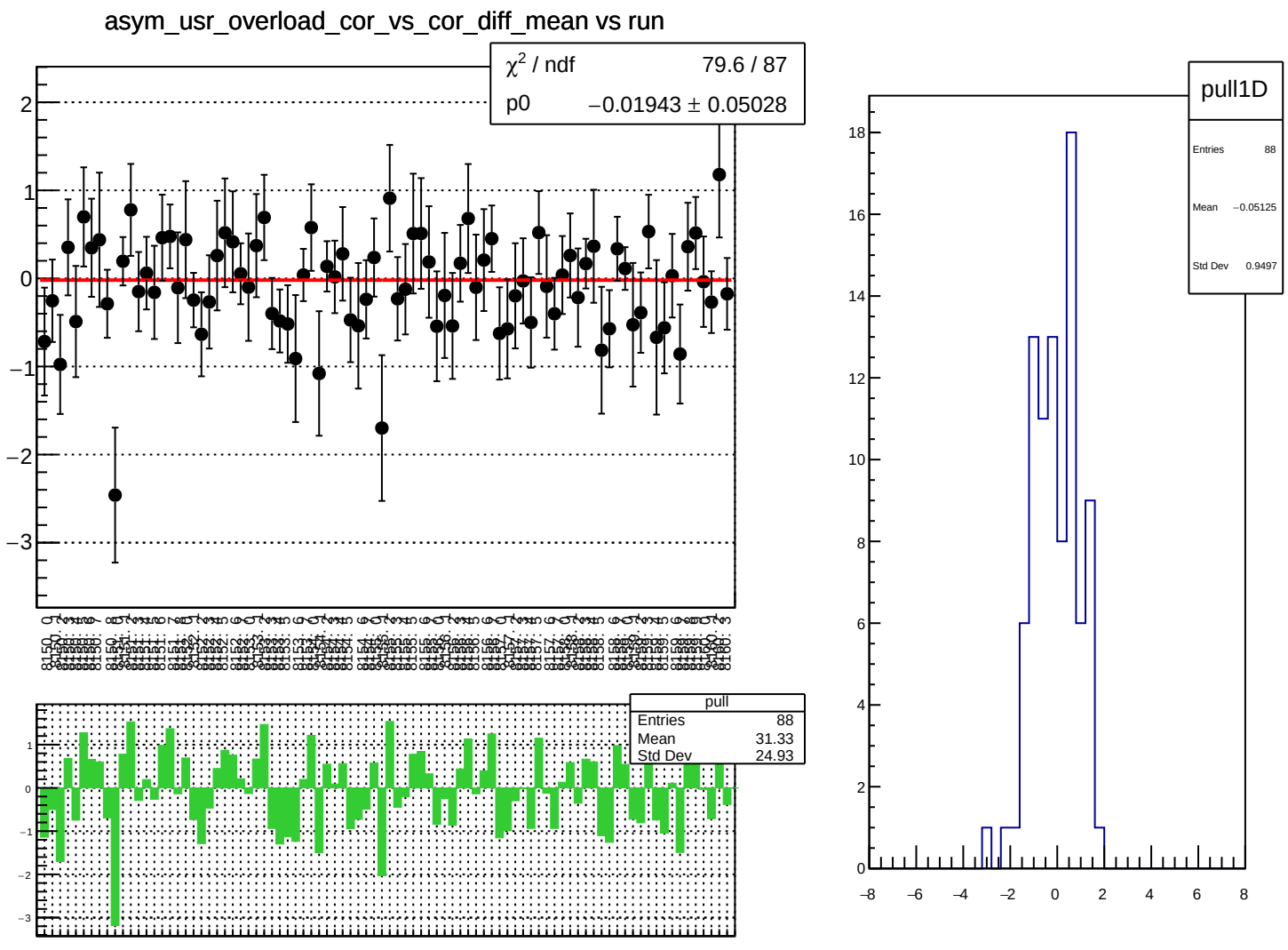

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.35 / 87
p0 −0.02014 ± 0.08869
pull
Entries 88
Mean −158
Std Dev 0

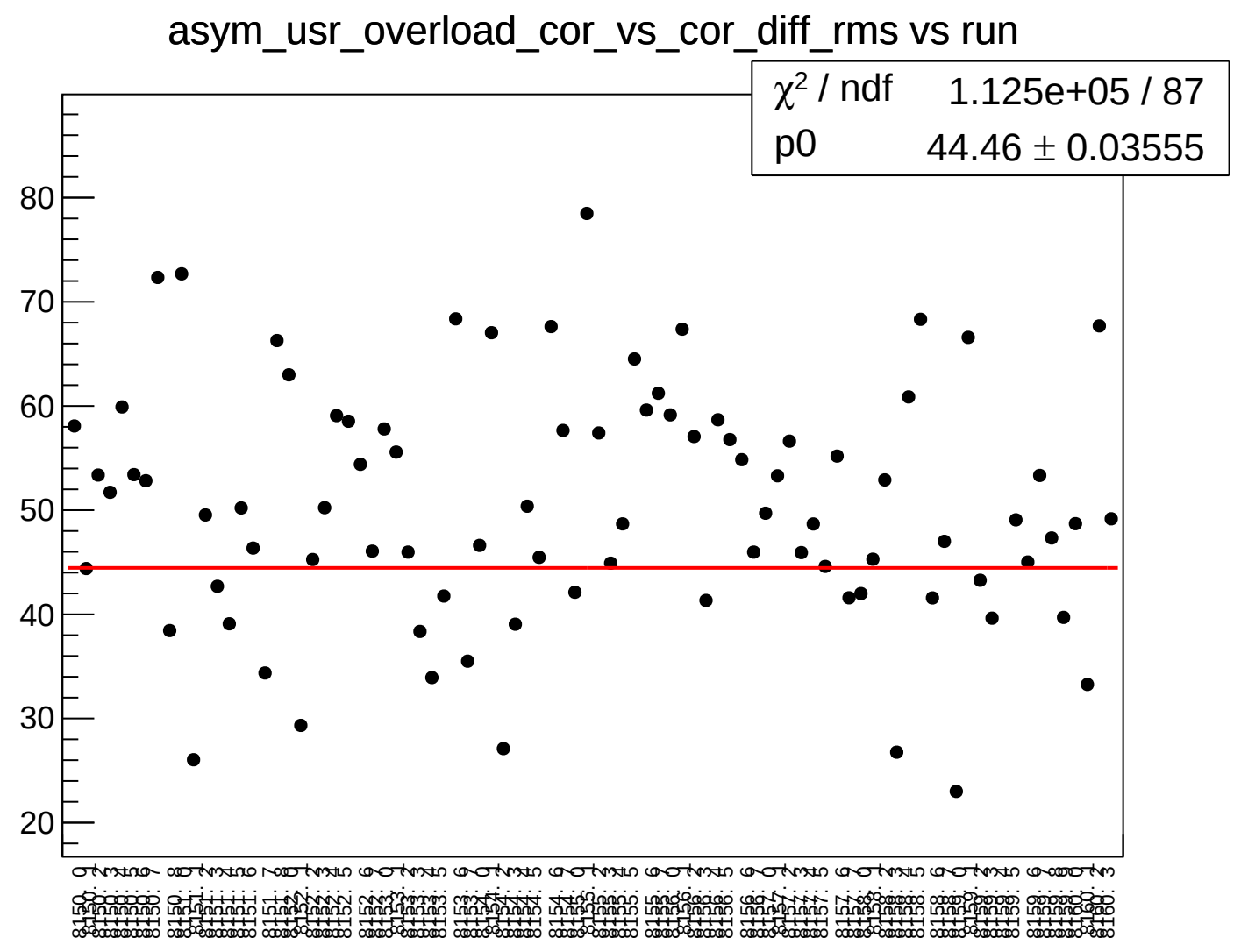

pull1D
Entries 88
Mean 0.01202
Std Dev 0.9789

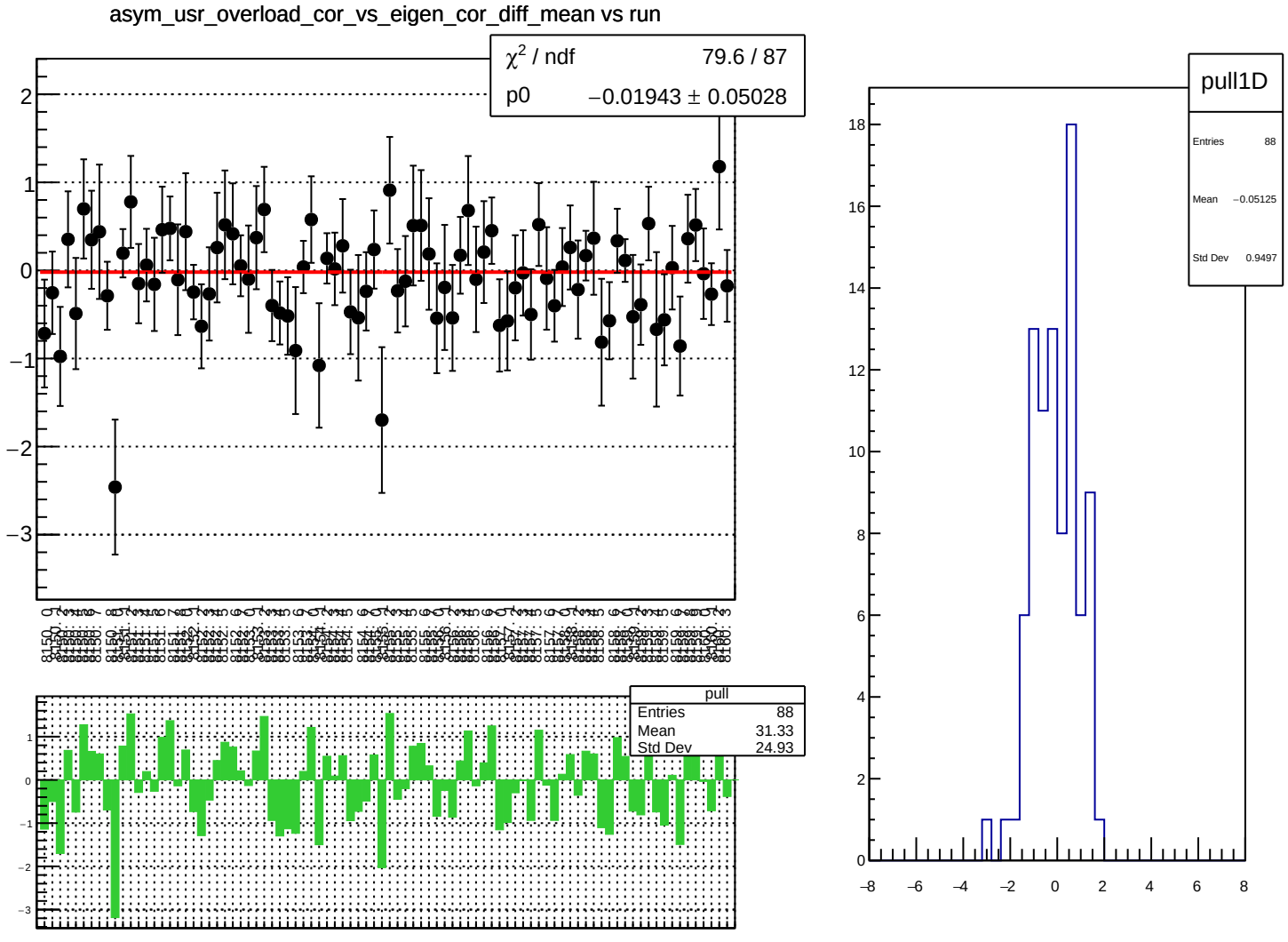

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.423e+04 / 87
p0 80.37 ± 0.06271
110
100
90
80
70
60

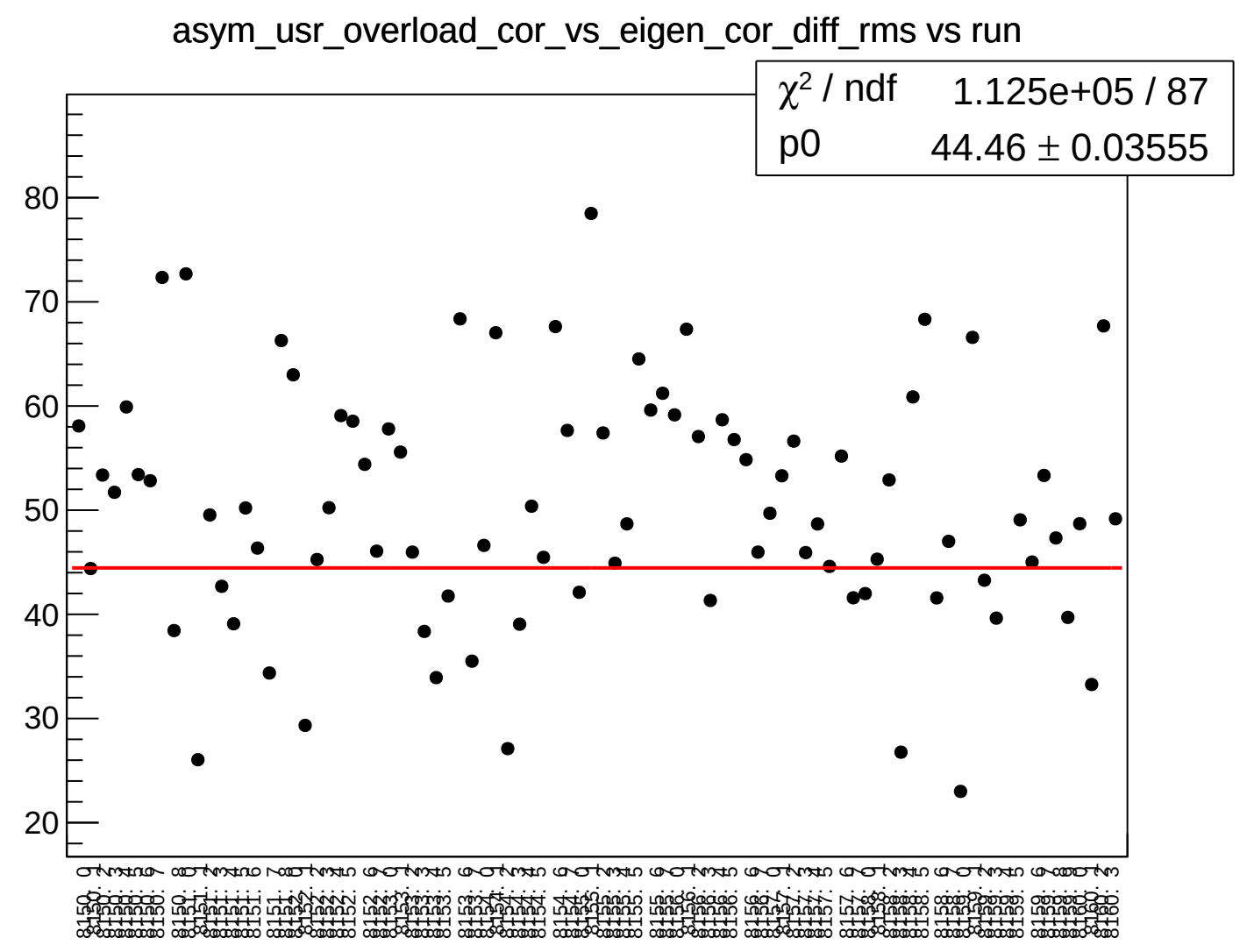

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 93.32 / 87
p0 −1.825e−13 ± 1.224e−13
pull
Entries 88
Mean 64.38
Std Dev 24.72
pull1D
Entries 88
Mean −0.08813
Std Dev 1.026

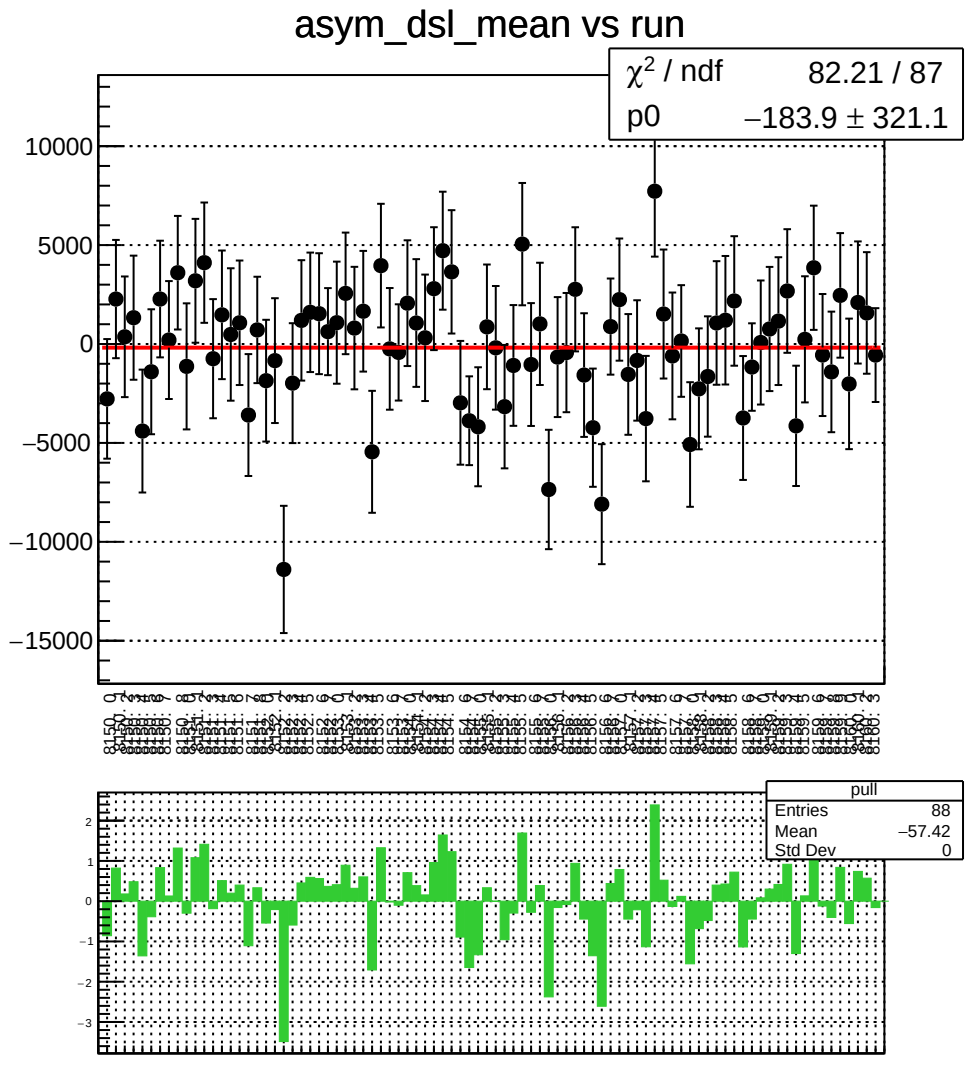

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.142e+05 / 87
p0 8.92e−11 ± 8.654e−14
0.5
0.4
0.3
0.2
0.1

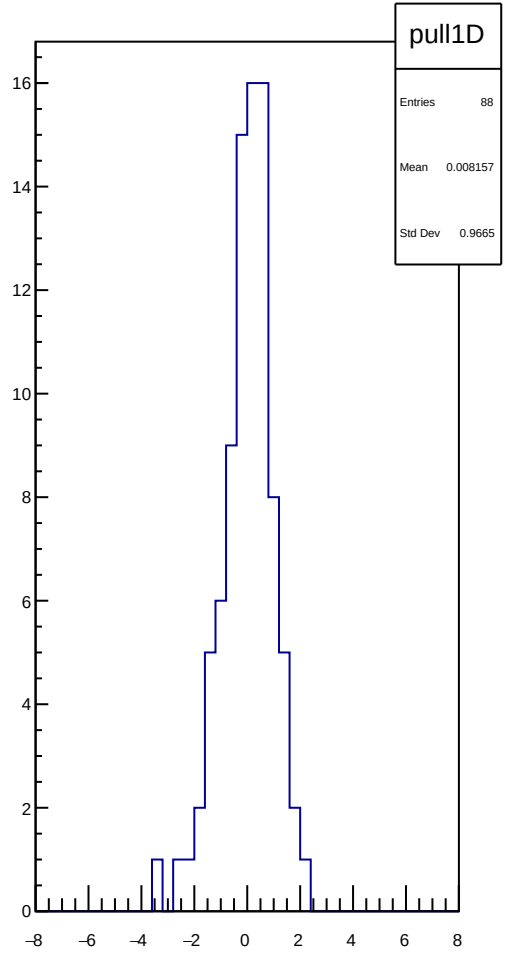

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 79.6 / 87
p0 −0.01943 ± 0.05028
pull
Entries 88
Mean 31.33
Std Dev 24.93
pull1D
Entries 88
Mean −0.05125
Std Dev 0.9497

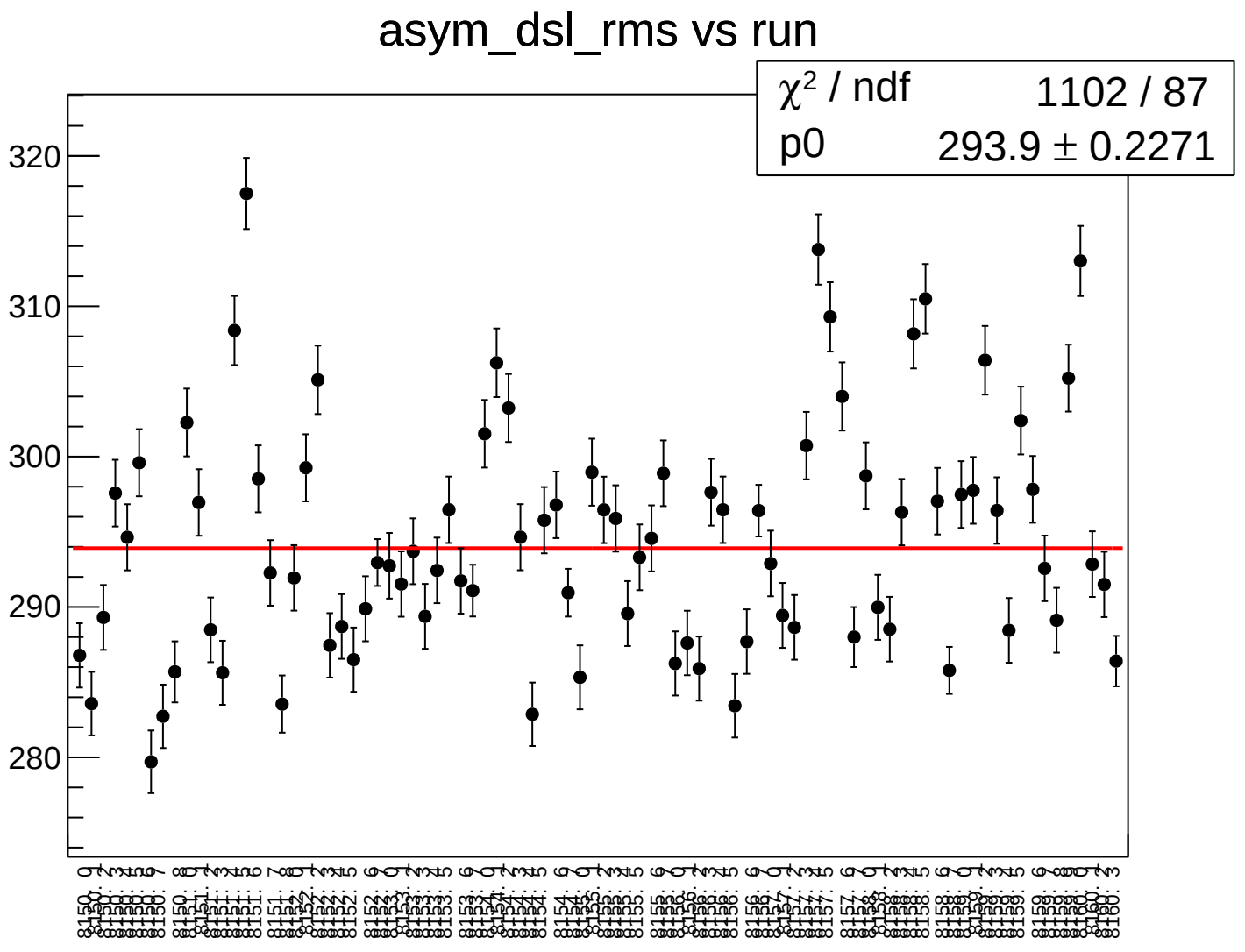

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.125e+05 / 87
p0 44.46 ± 0.03555
80
70
60
50
40
30
20

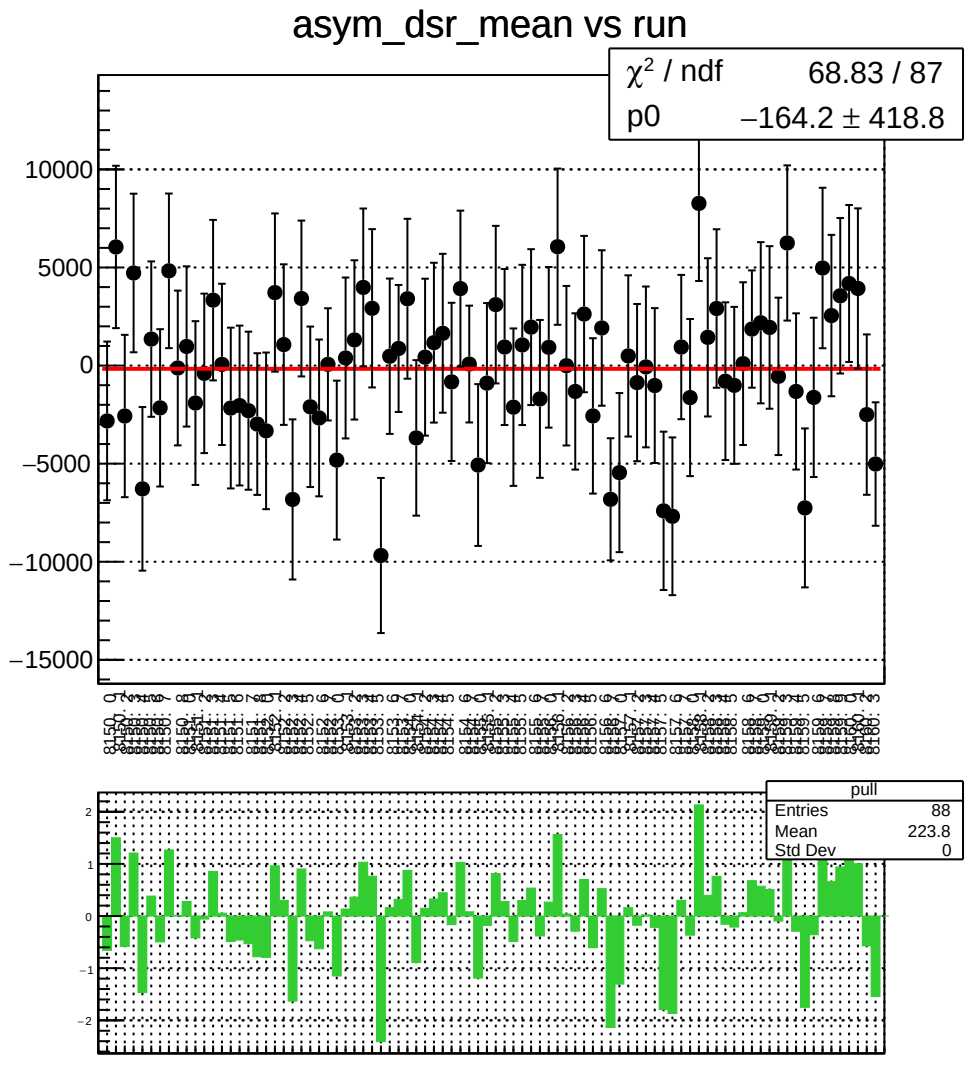

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.6 / 87
p0 −0.01943 ± 0.05028
pull
Entries 88
Mean 31.33
Std Dev 24.93
pull1D
Entries 88
Mean −0.05125
Std Dev 0.9497

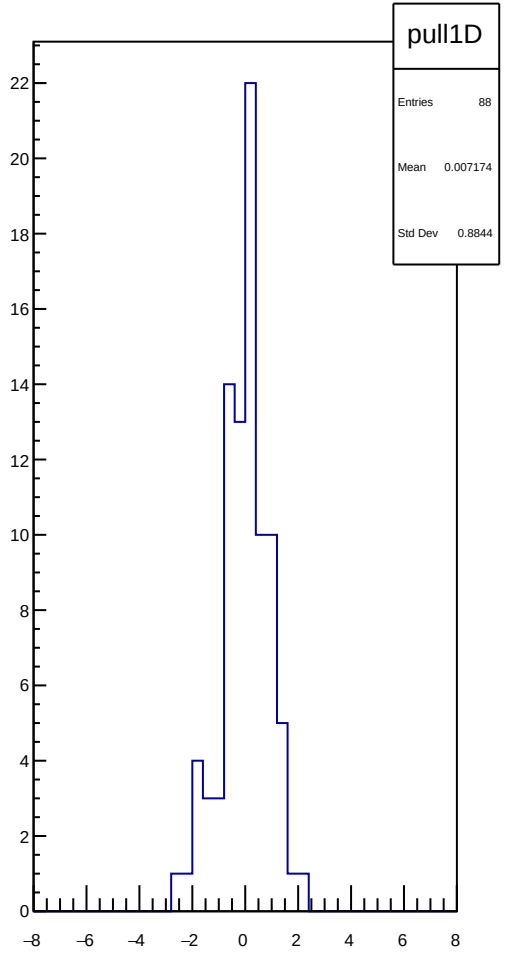

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.125e+05 / 87
p0 44.46 ± 0.03555
80
70
60
50
40
30
20

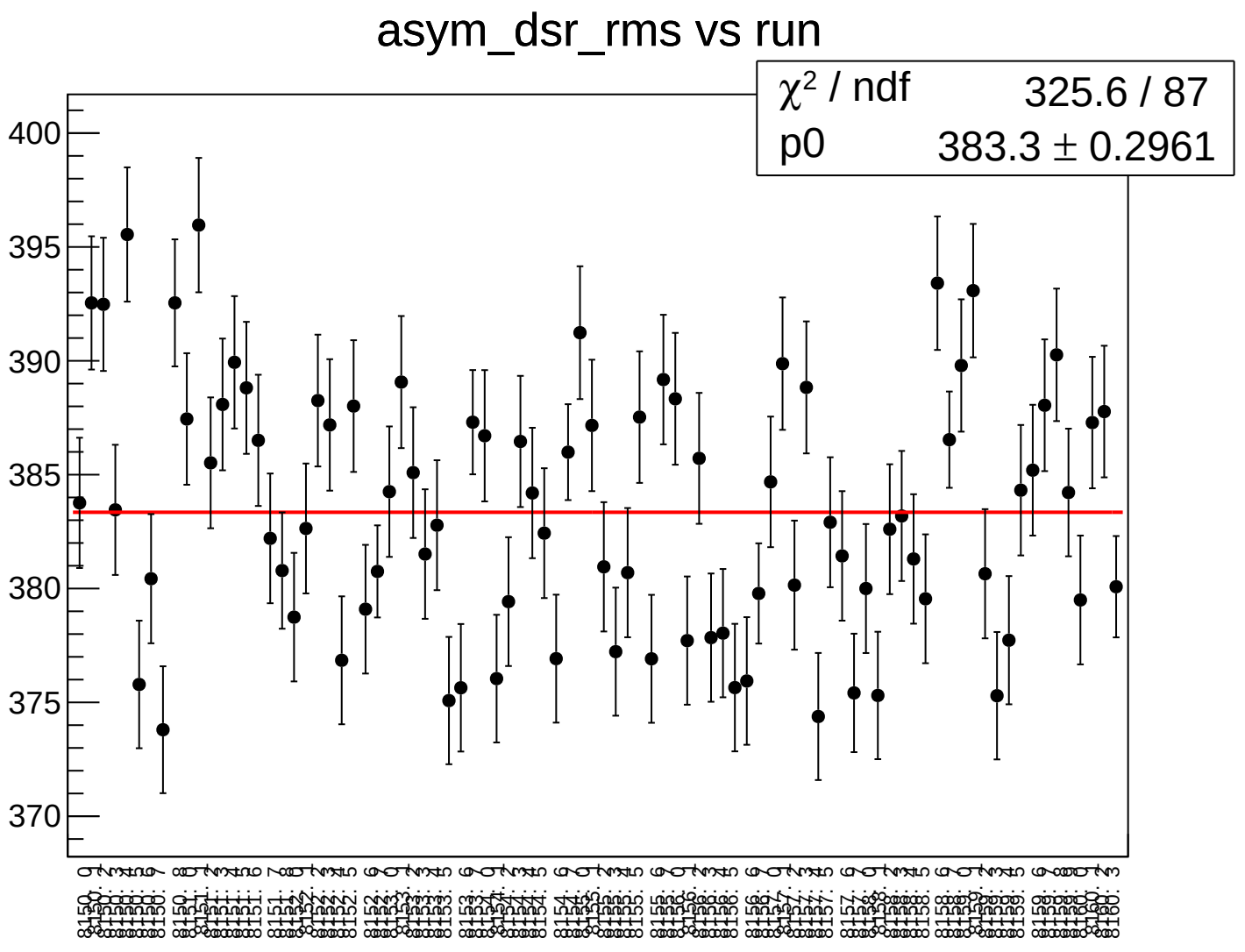

asym_dsl_mean vs run
χ² / ndf 82.21 / 87
p0 −183.9 ± 321.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −57.42
Std Dev 0
2
1
0
−1
−2
−3

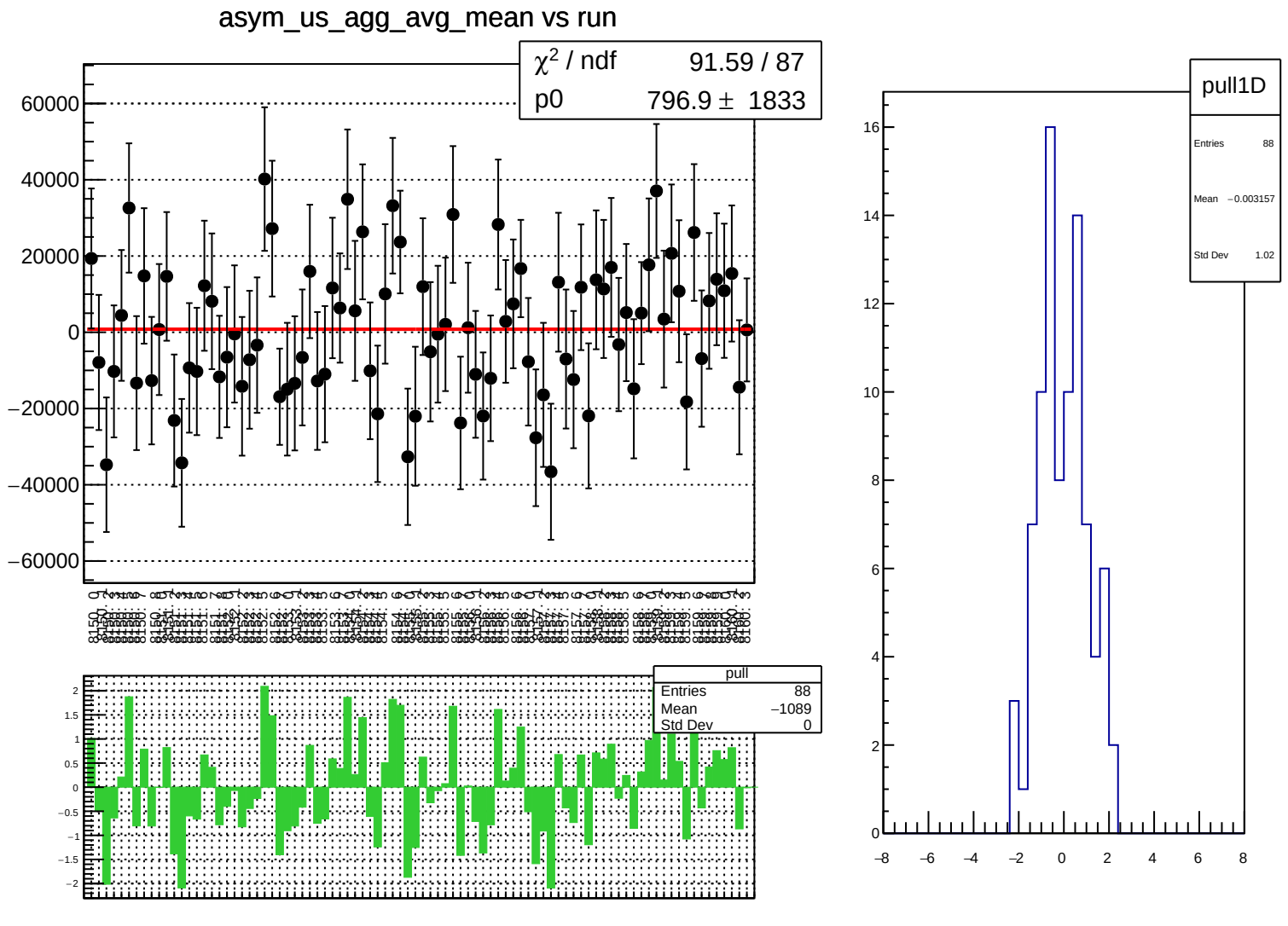

pull1D
Entries 88
Mean 0.008157
Std Dev 0.9665
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

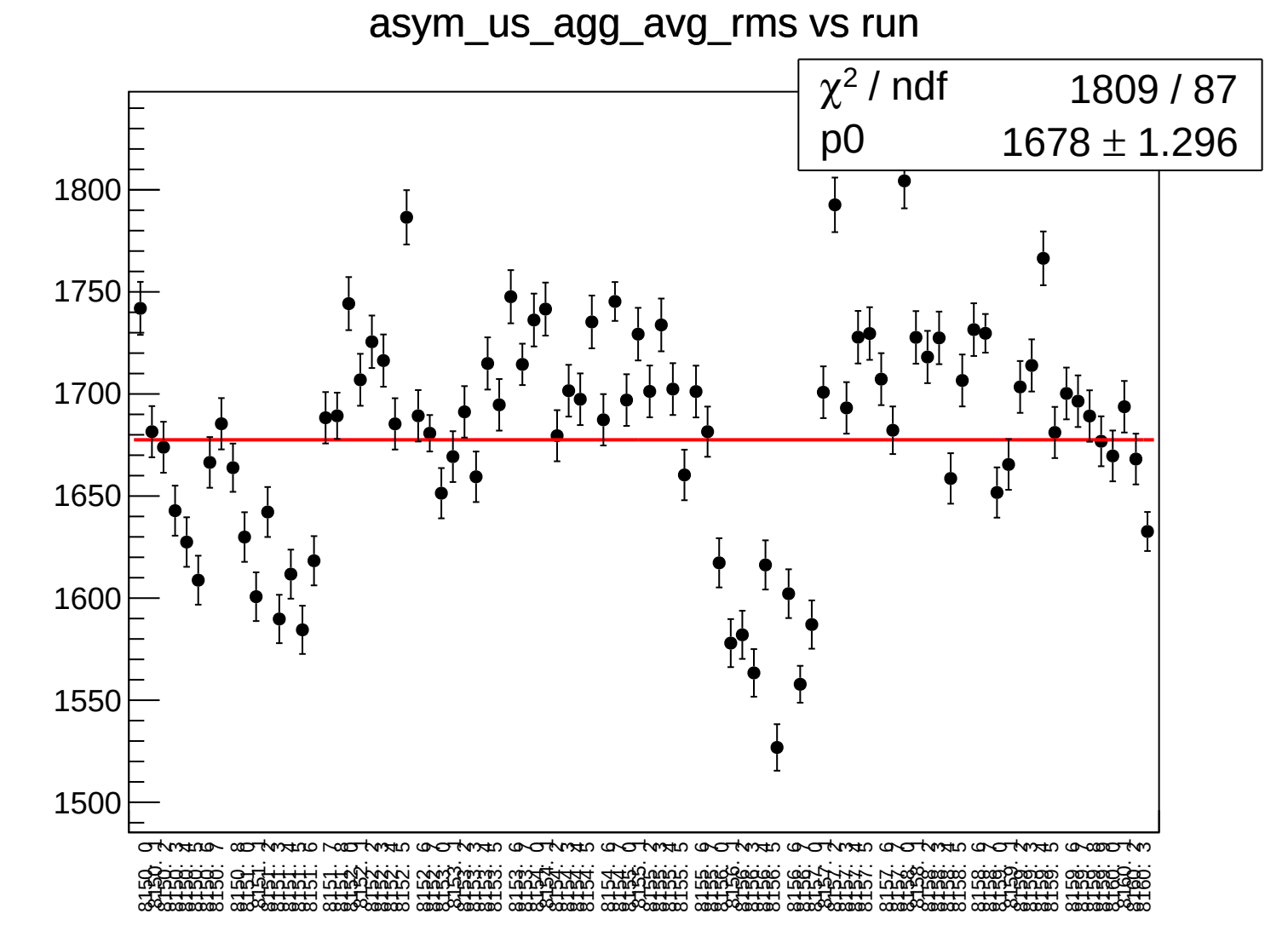

asym_dsl_rms vs run
χ² / ndf 1102 / 87
p0 293.9 ± 0.2271
320
310
300
290
280

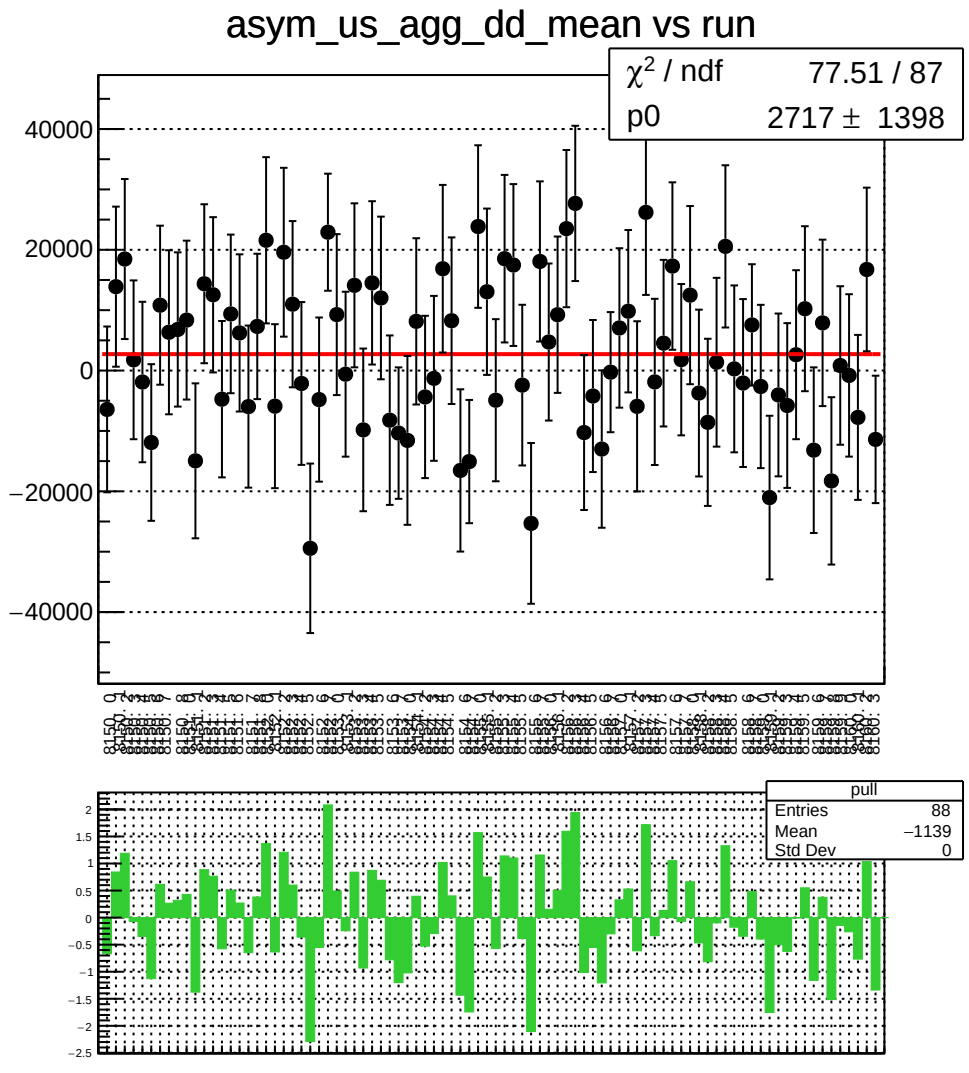

asym_dsr_mean vs run
χ² / ndf 68.83 / 87
p0 −164.2 ± 418.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 223.8
Std Dev 0
2
1
0
−1
−2

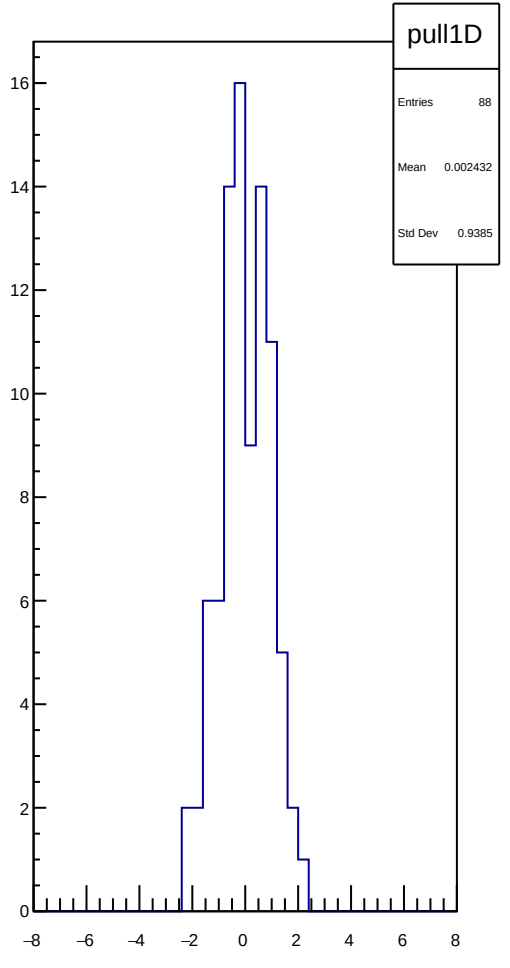

pull1D
Entries 88
Mean 0.007174
Std Dev 0.8844
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

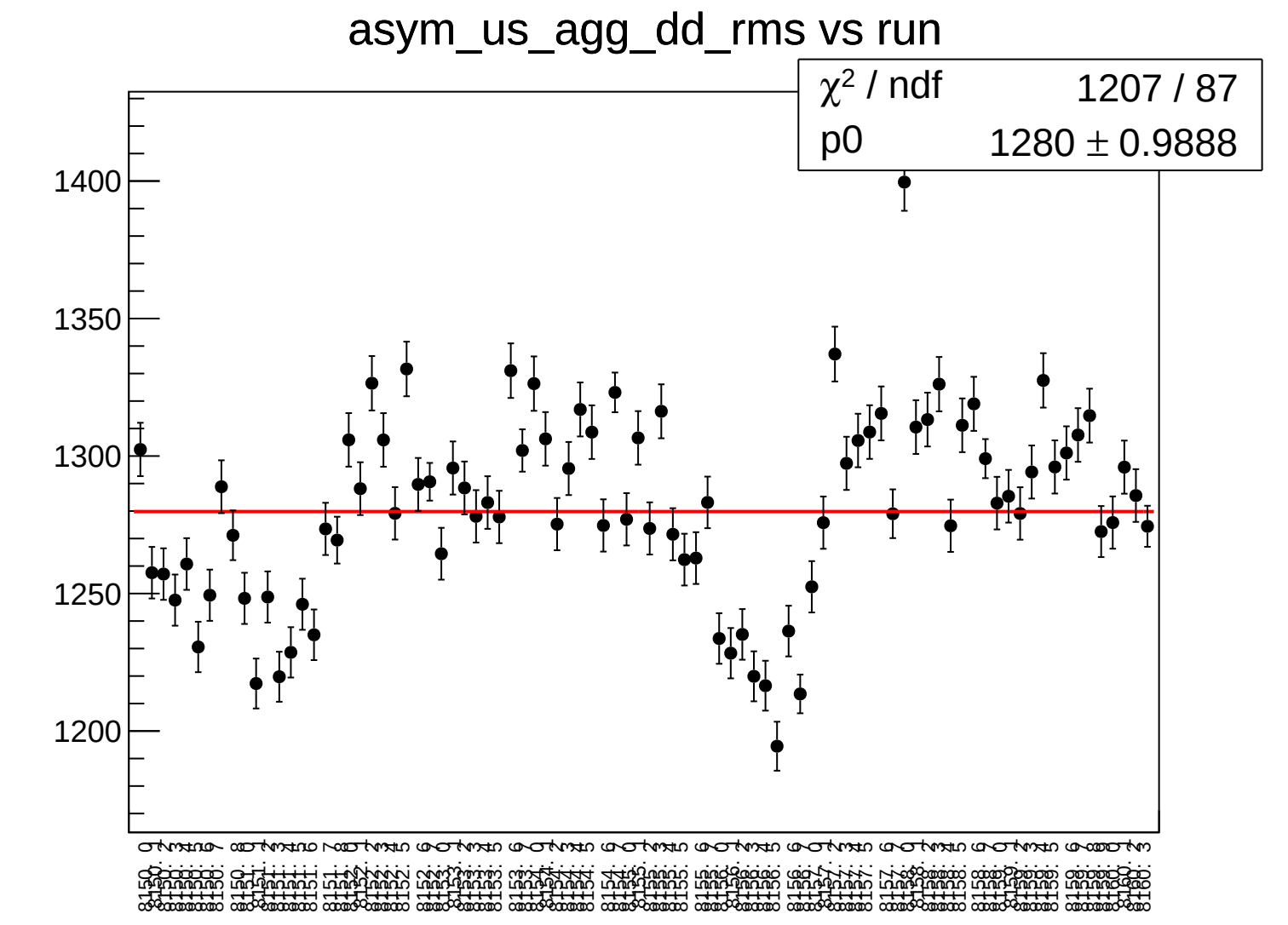

asym_dsr_rms vs run
χ² / ndf 325.6 / 87
p0 383.3 ± 0.2961
400
395
390
385
380
375
370

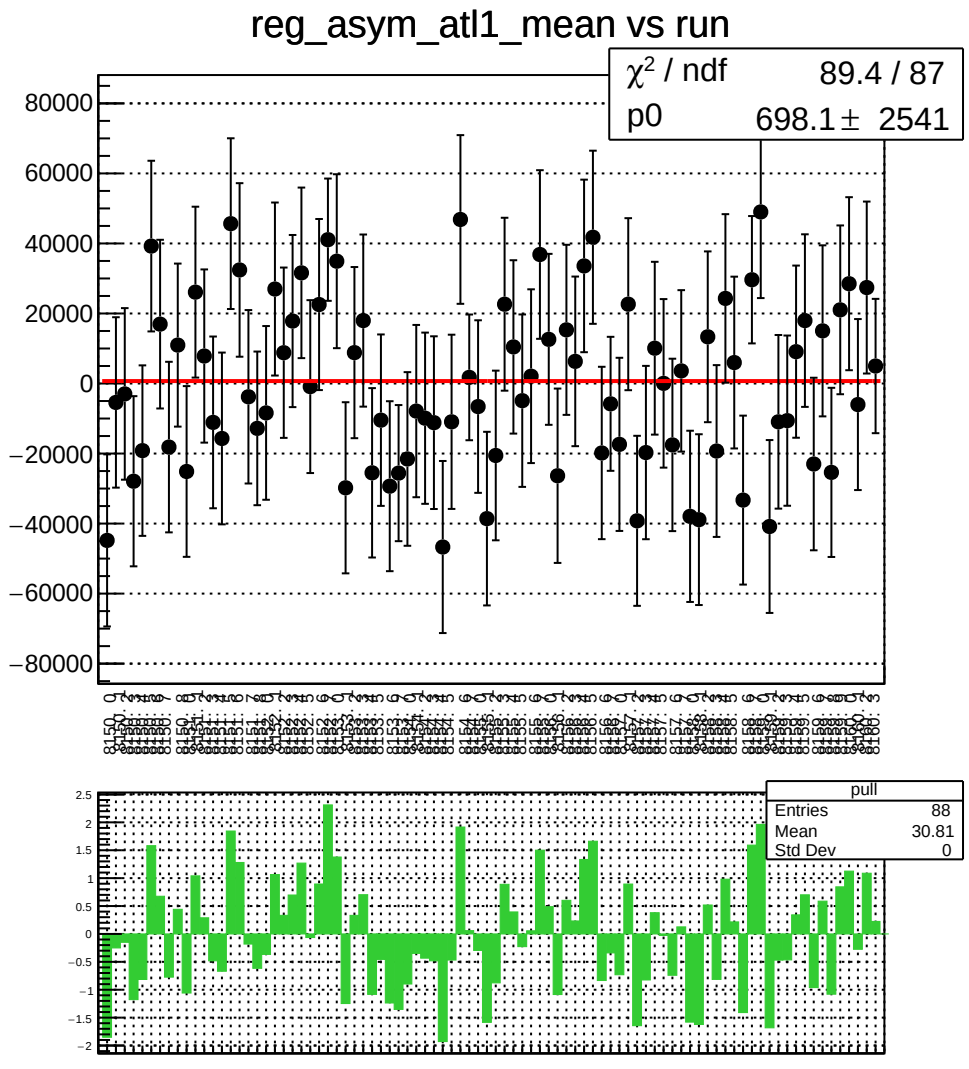

asym_us_agg_avg_mean vs run
χ² / ndf 91.59 / 87
p0 796.9 ± 1833
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1089
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.003157
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

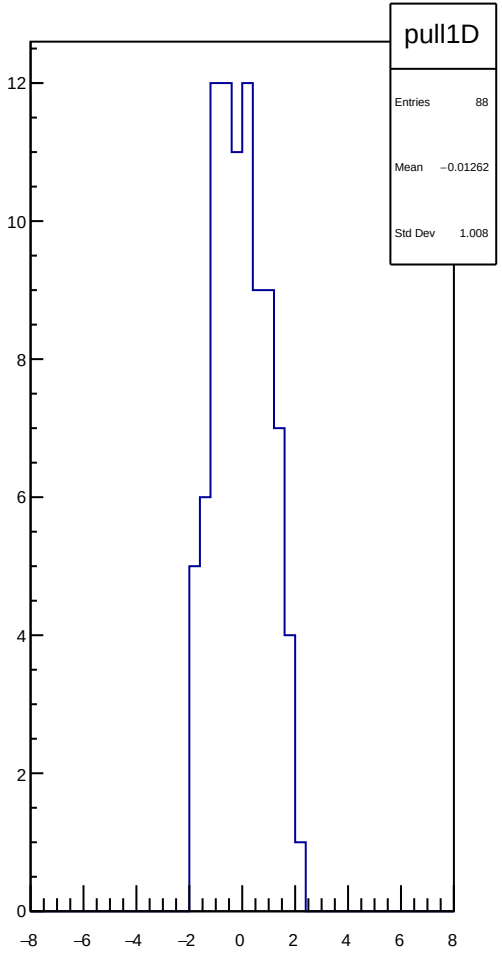

asym_us_agg_avg_rms vs run
χ^2 / ndf 1809 / 87
p0 1678 ± 1.296
1800
1750
1700
1650
1600
1550
1500

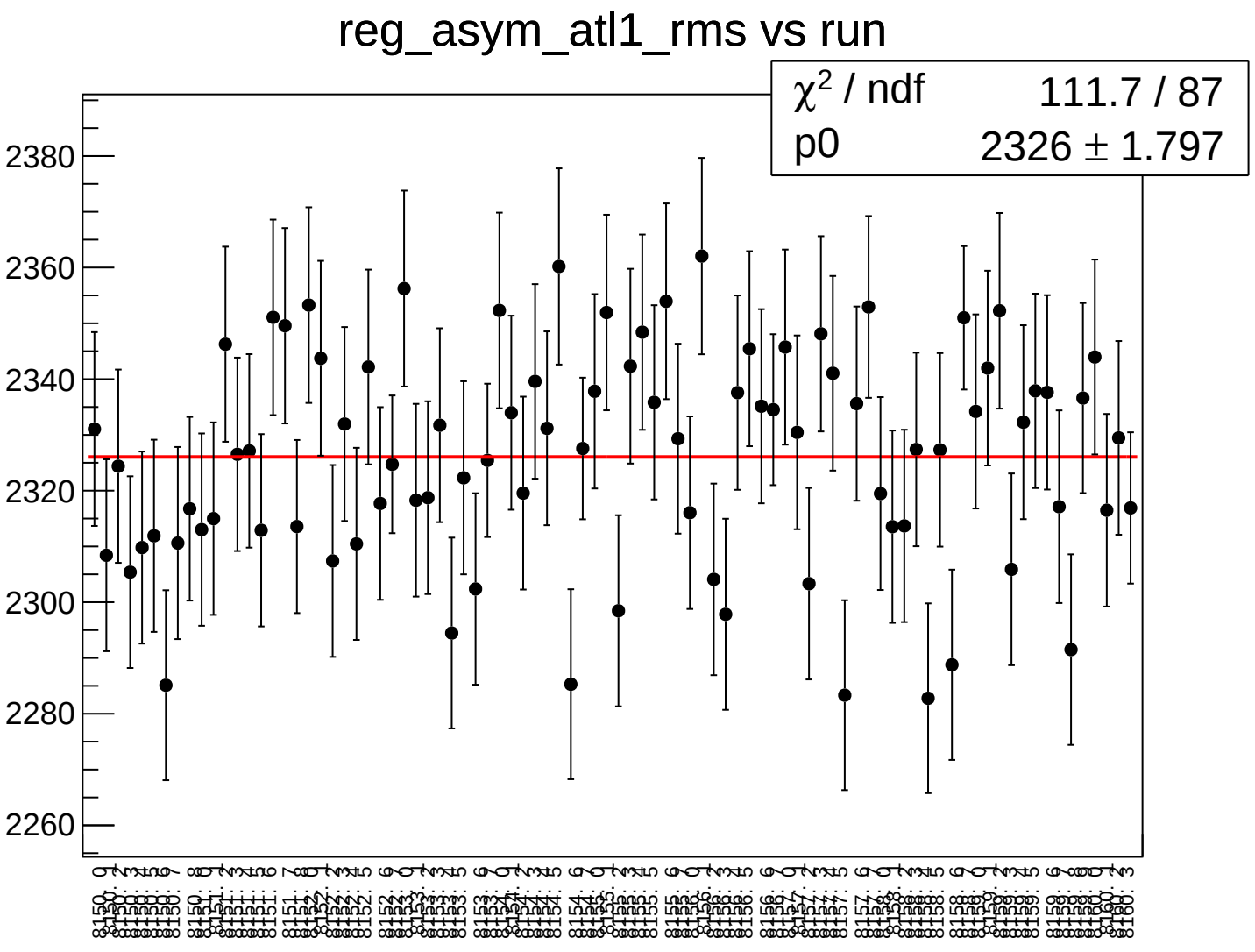

asym_us_agg_dd_mean vs run
χ² / ndf 77.51 / 87
p0 2717 ± 1398
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −1139
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

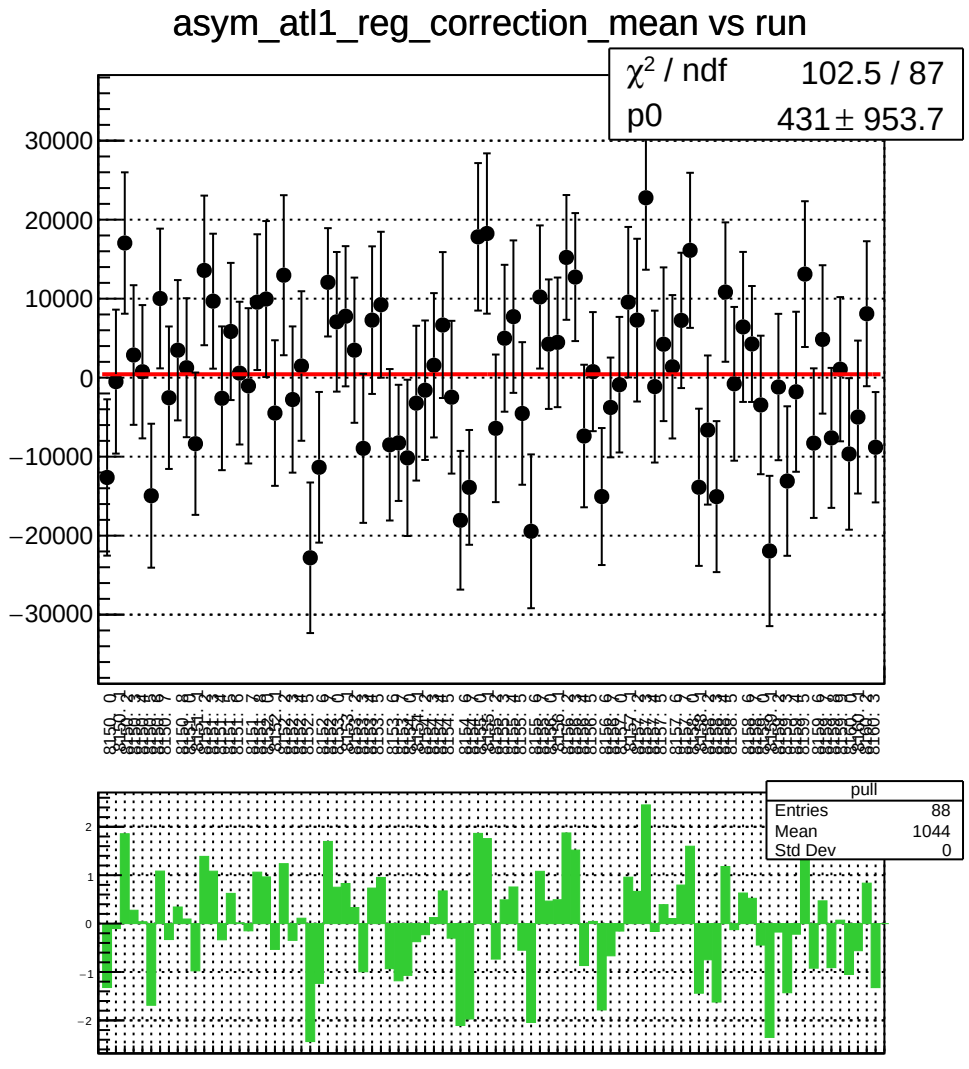

pull1D
Entries 88
Mean 0.002432
Std Dev 0.9385
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

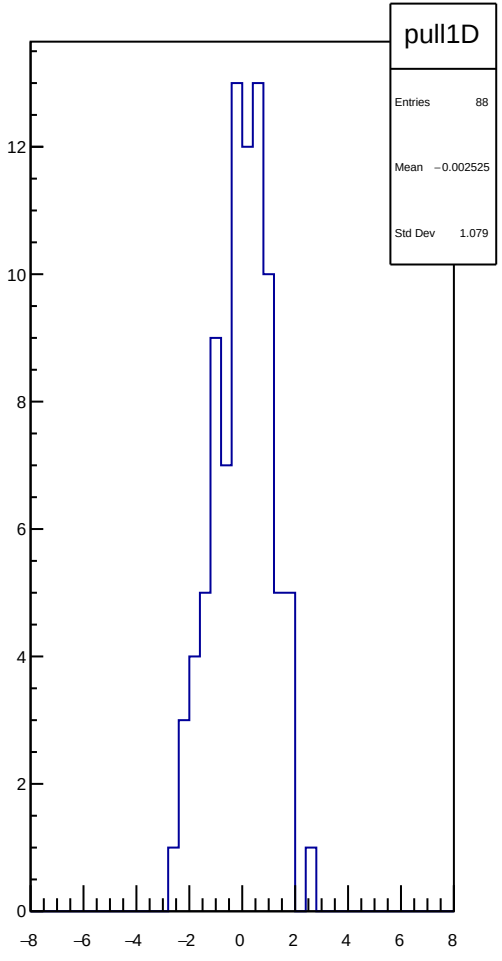

asym_us_agg_dd_rms vs run
χ² / ndf 1207 / 87
p0 1280 ± 0.9888
1400
1350
1300
1250
1200

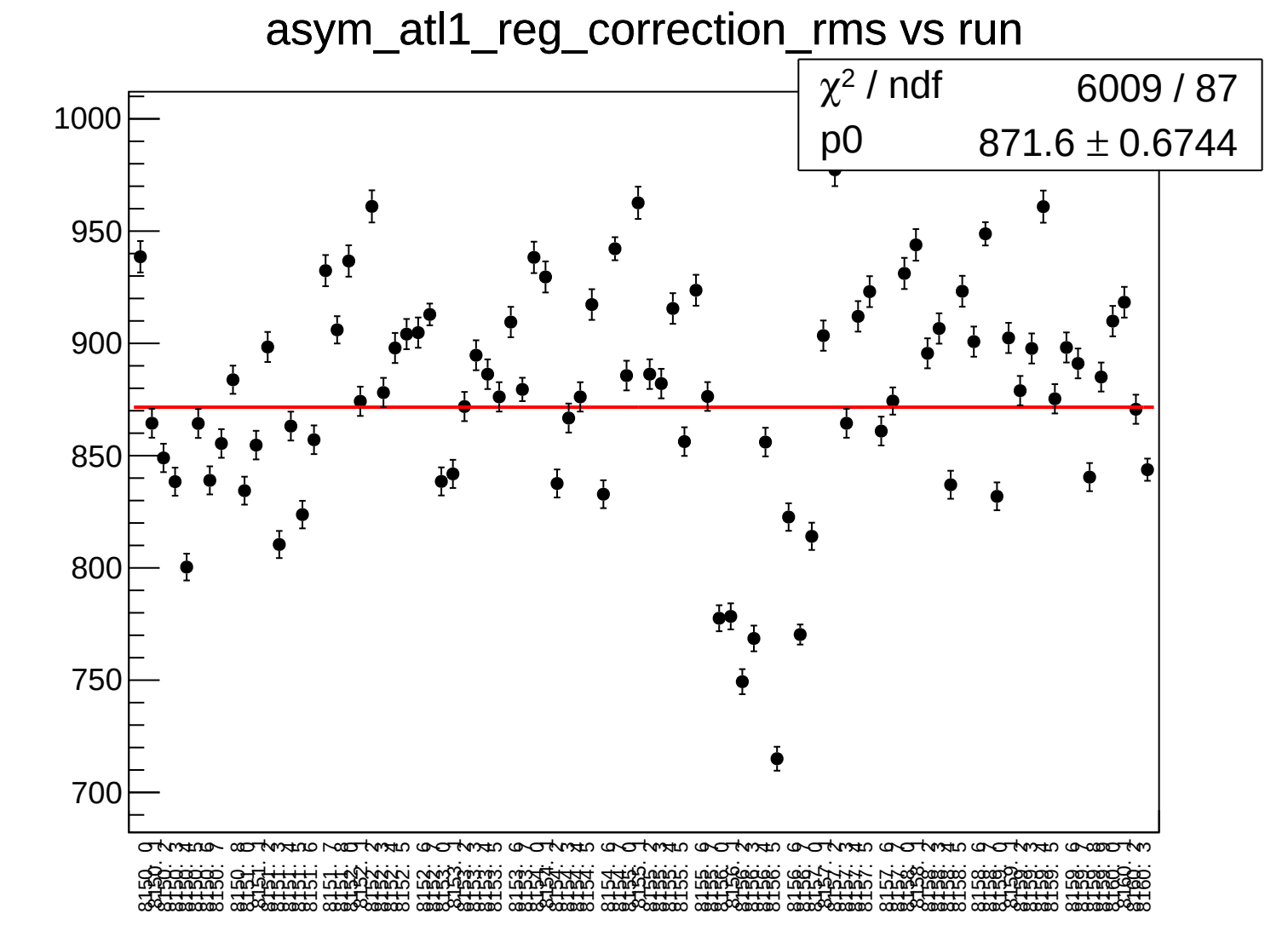

reg_asym_atl1_mean vs run
χ² / ndf 89.4 / 87
p0 698.1 ± 2541
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 30.81
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

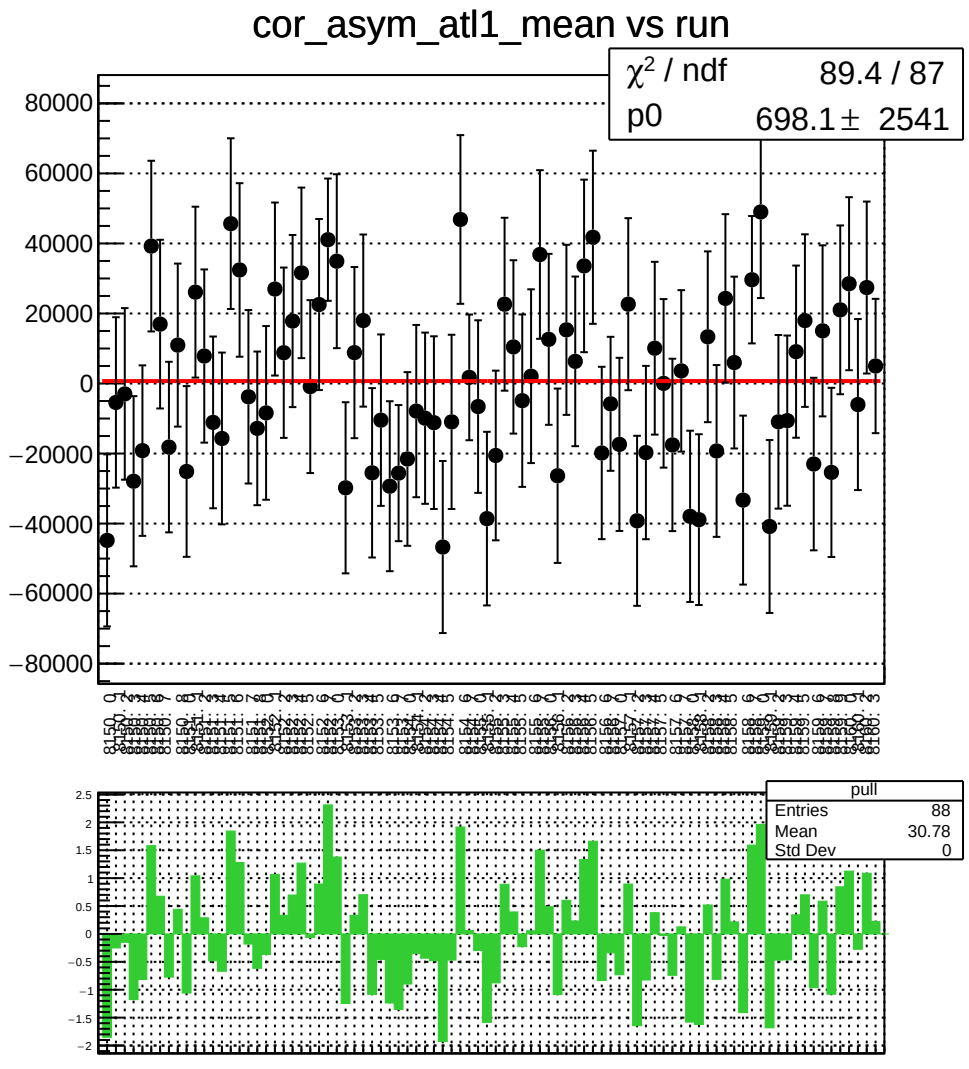

pull1D
Entries 88
Mean −0.01262
Std Dev 1.008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

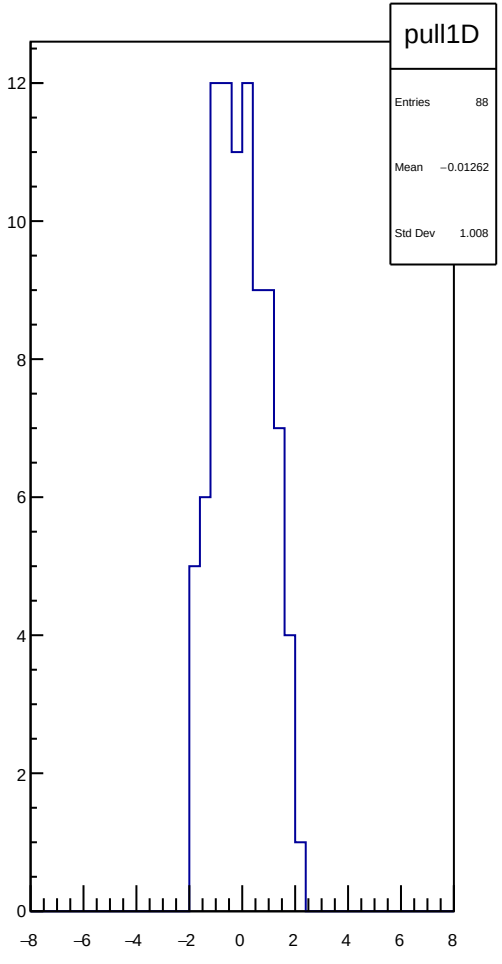

reg_asym_atl1_rms vs run
χ² / ndf 111.7 / 87
p0 2326 ± 1.797
2380
2360
2340
2320
2300
2280
2260

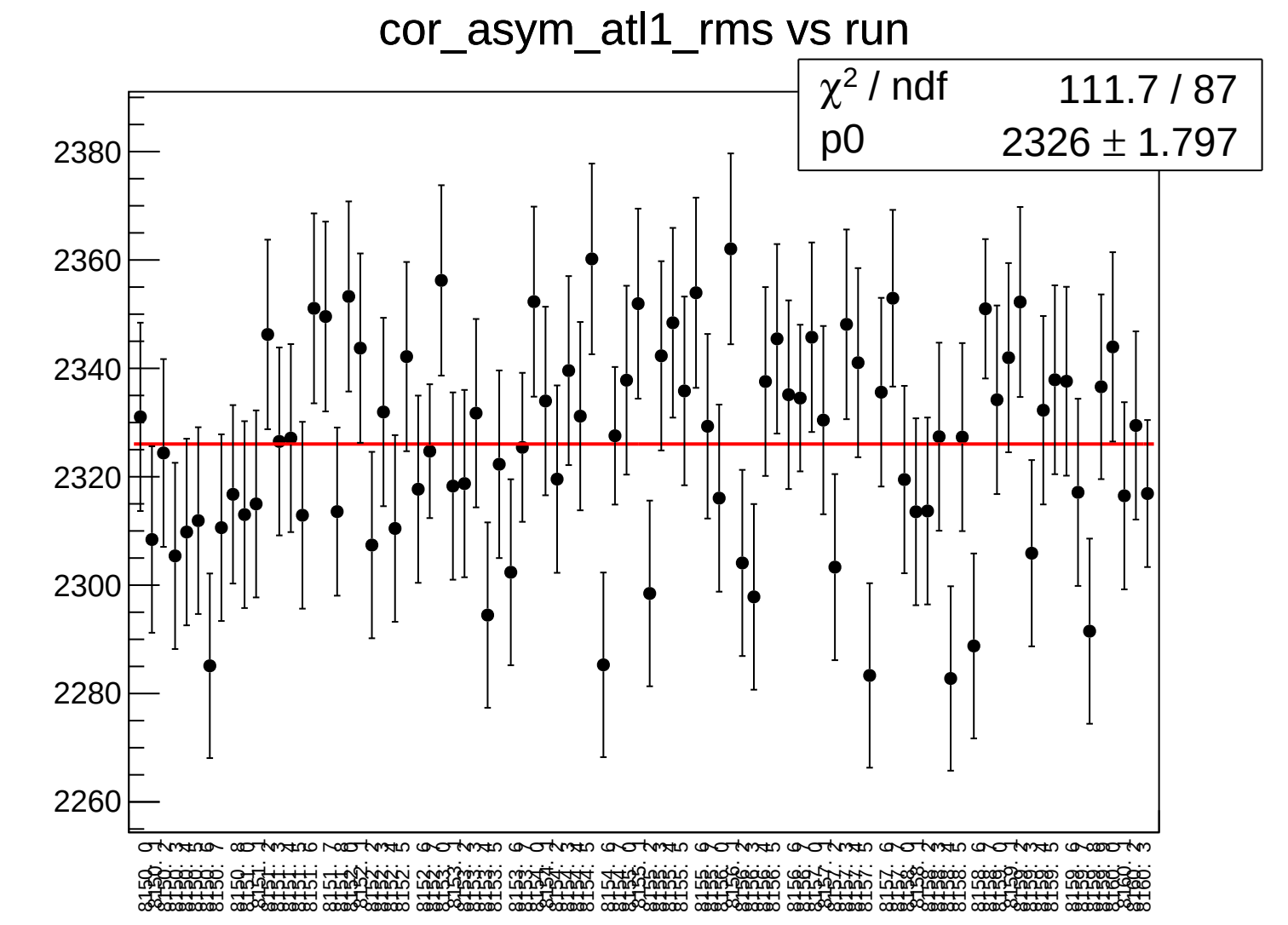

asym_atl1_reg_correction_mean vs run
χ² / ndf 102.5 / 87
p0 431 ± 953.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 1044
Std Dev 0
2
1
0
−1
−2

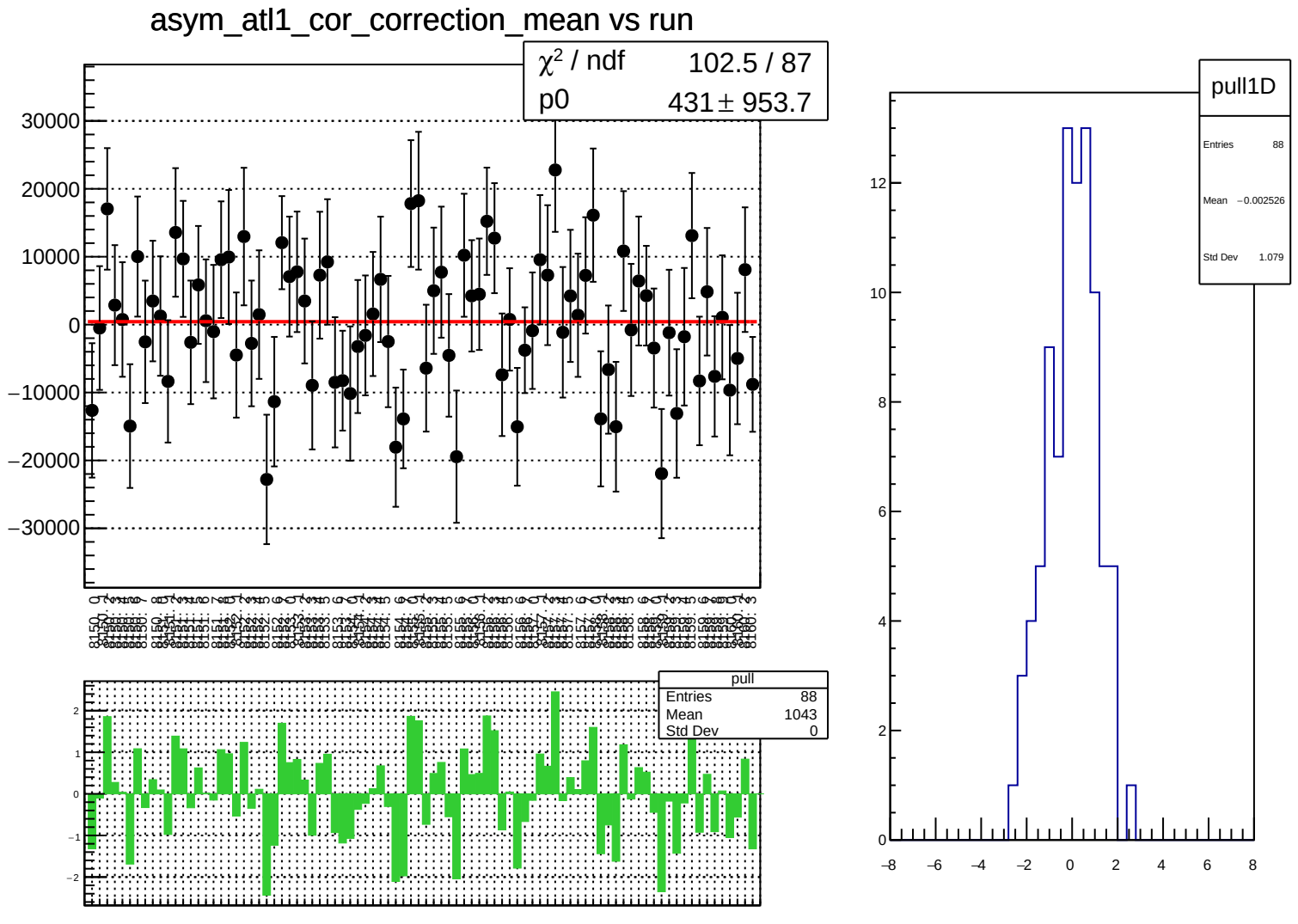

pull1D
Entries 88
Mean −0.002525
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

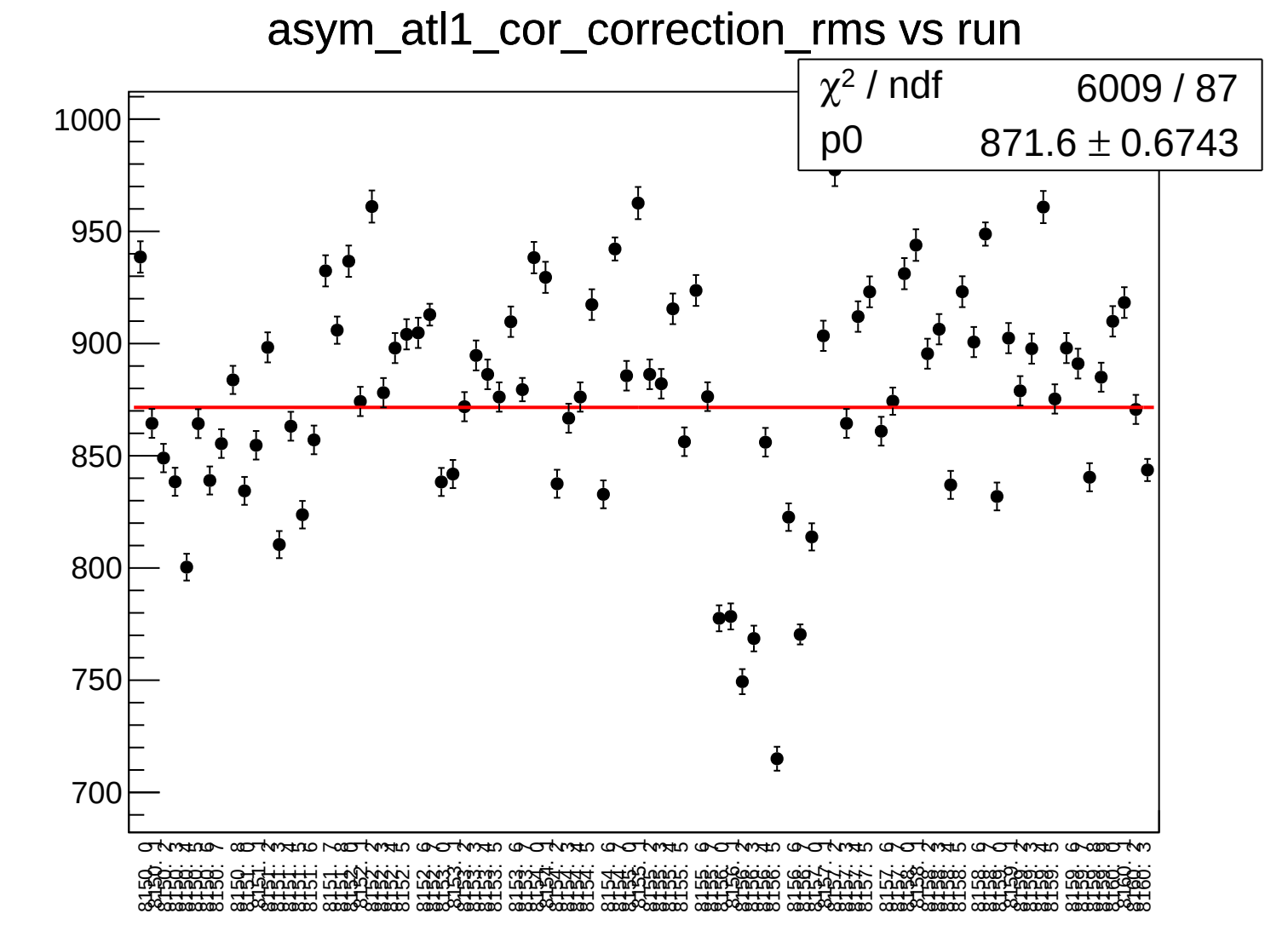

asym_atl1_reg_correction_rms vs run
χ² / ndf 6009 / 87
p0 871.6 ± 0.6744
1000
950
900
850
800
750
700

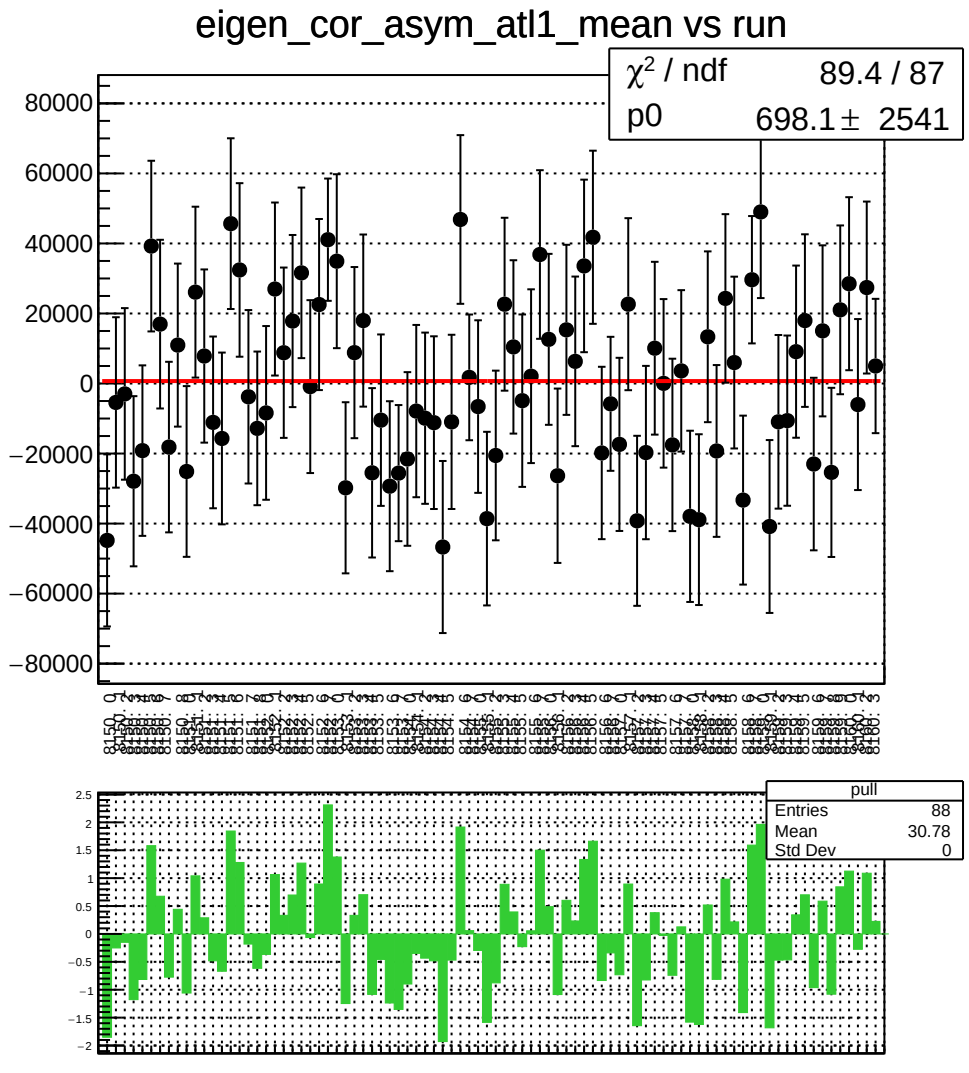

cor_asym_atl1_mean vs run
χ² / ndf 89.4 / 87
p0 698.1 ± 2541
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 30.78
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

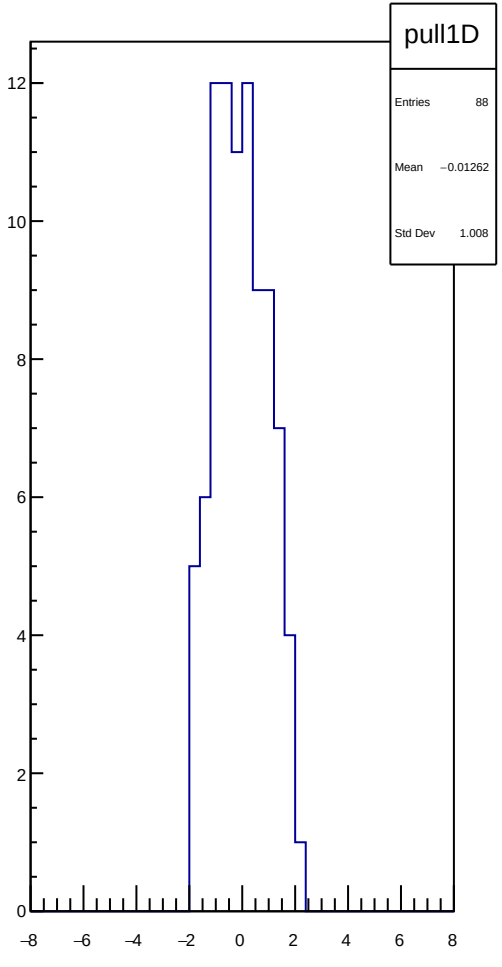

pull1D
Entries 88
Mean −0.01262
Std Dev 1.008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

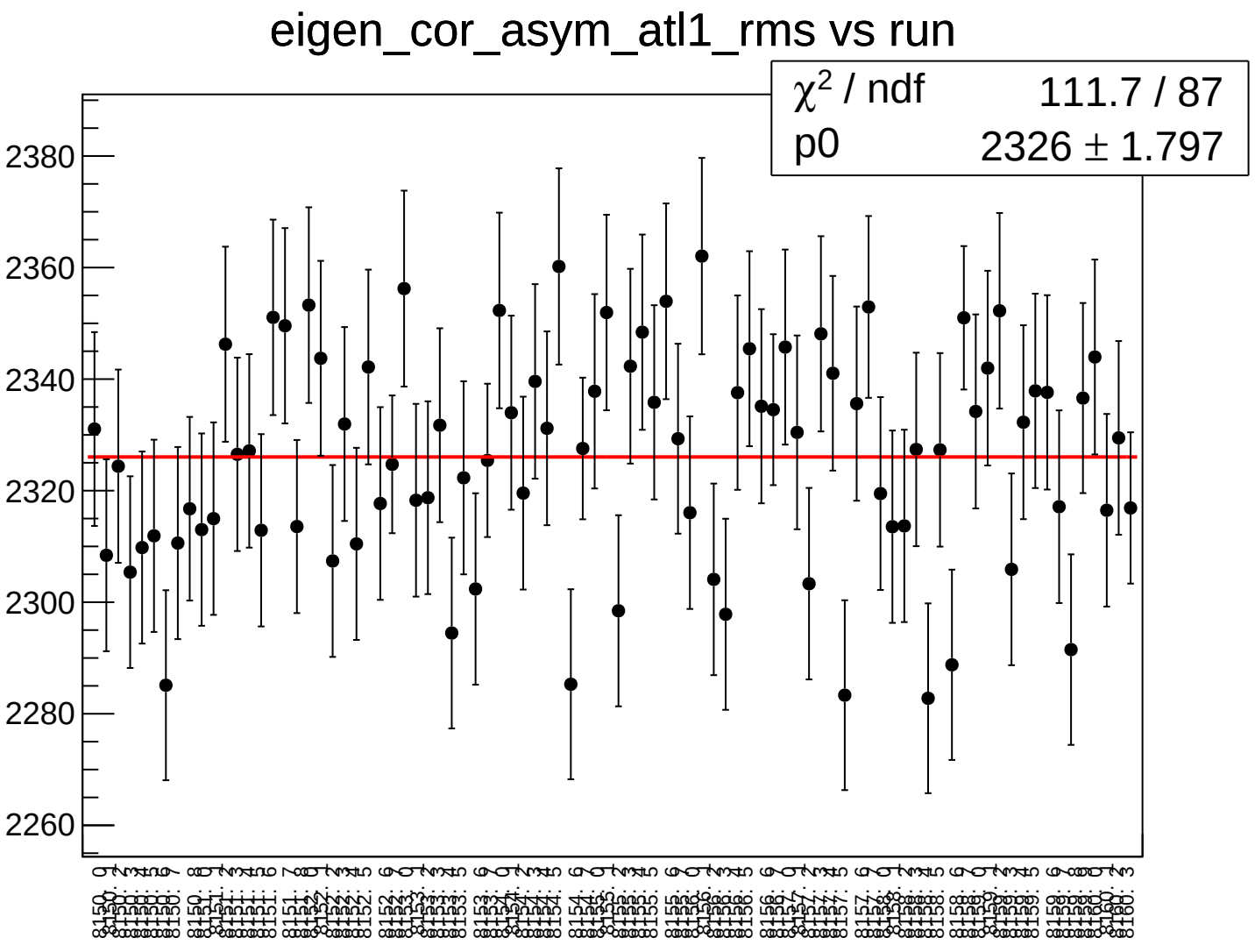

cor_asym_atl1_rms vs run
χ^2 / ndf 111.7 / 87
p0 2326 ± 1.797
2380
2360
2340
2320
2300
2280
2260

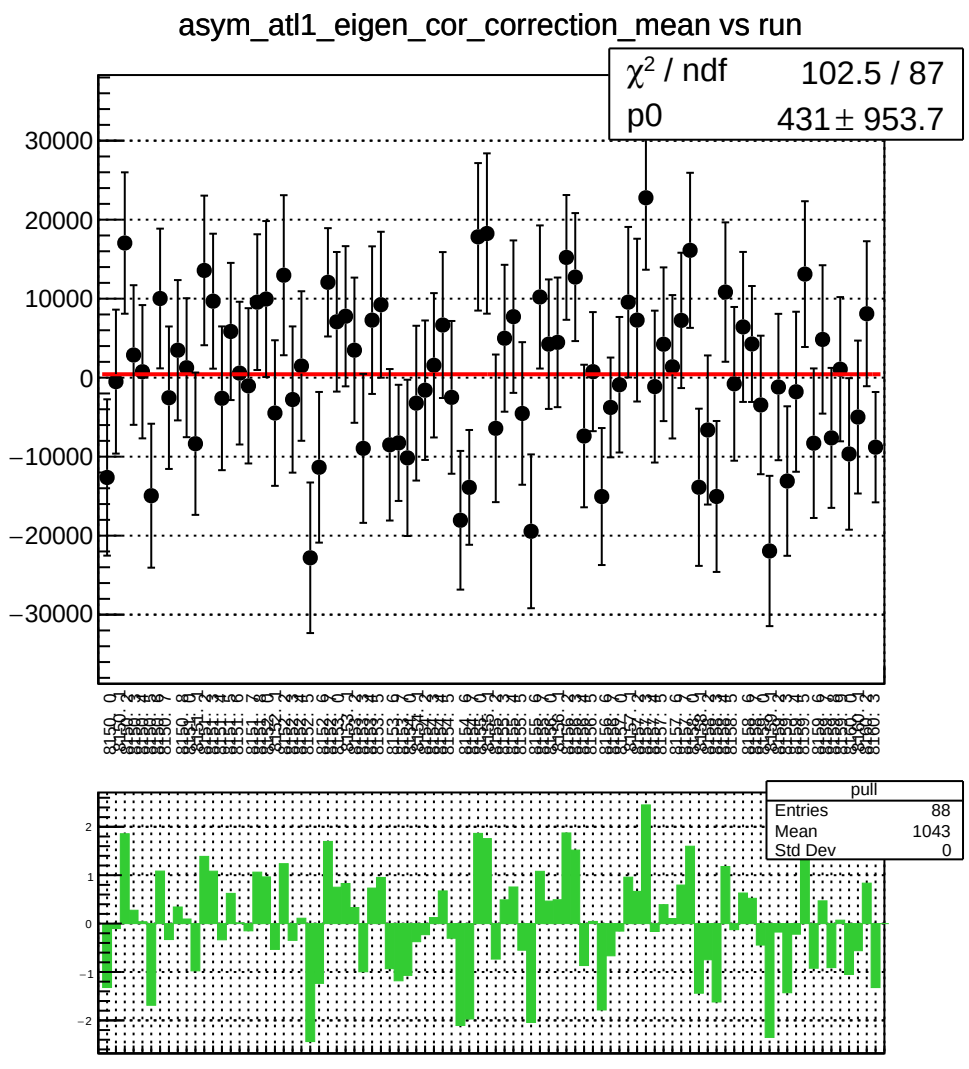

asym_atl1_cor_correction_mean vs run
χ² / ndf 102.5 / 87
p0 431 ± 953.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 1043
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002526
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

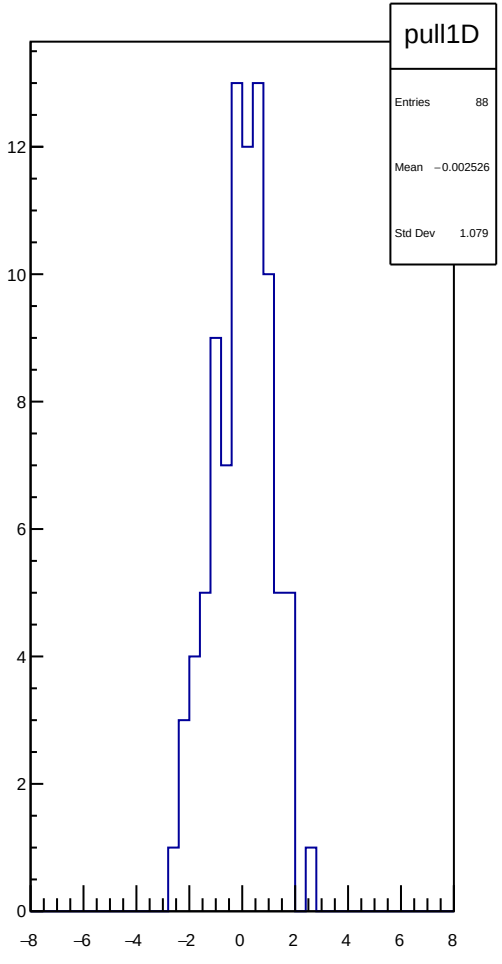

asym_atl1_cor_correction_rms vs run
χ² / ndf 6009 / 87
p0 871.6 ± 0.6743
1000
950
900
850
800
750
700


eigen_cor_asym_atl1_mean vs run
χ² / ndf 89.4 / 87
p0 698.1 ± 2541
pull
Entries 88
Mean 30.78
Std Dev 0


pull1D
Entries 88
Mean −0.01262
Std Dev 1.008


eigen_cor_asym_atl1_rms vs run
χ² / ndf 111.7 / 87
p0 2326 ± 1.797
2380
2360
2340
2320
2300
2280
2260


asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 102.5 / 87
p0 431 ± 953.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 1043
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.002526
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
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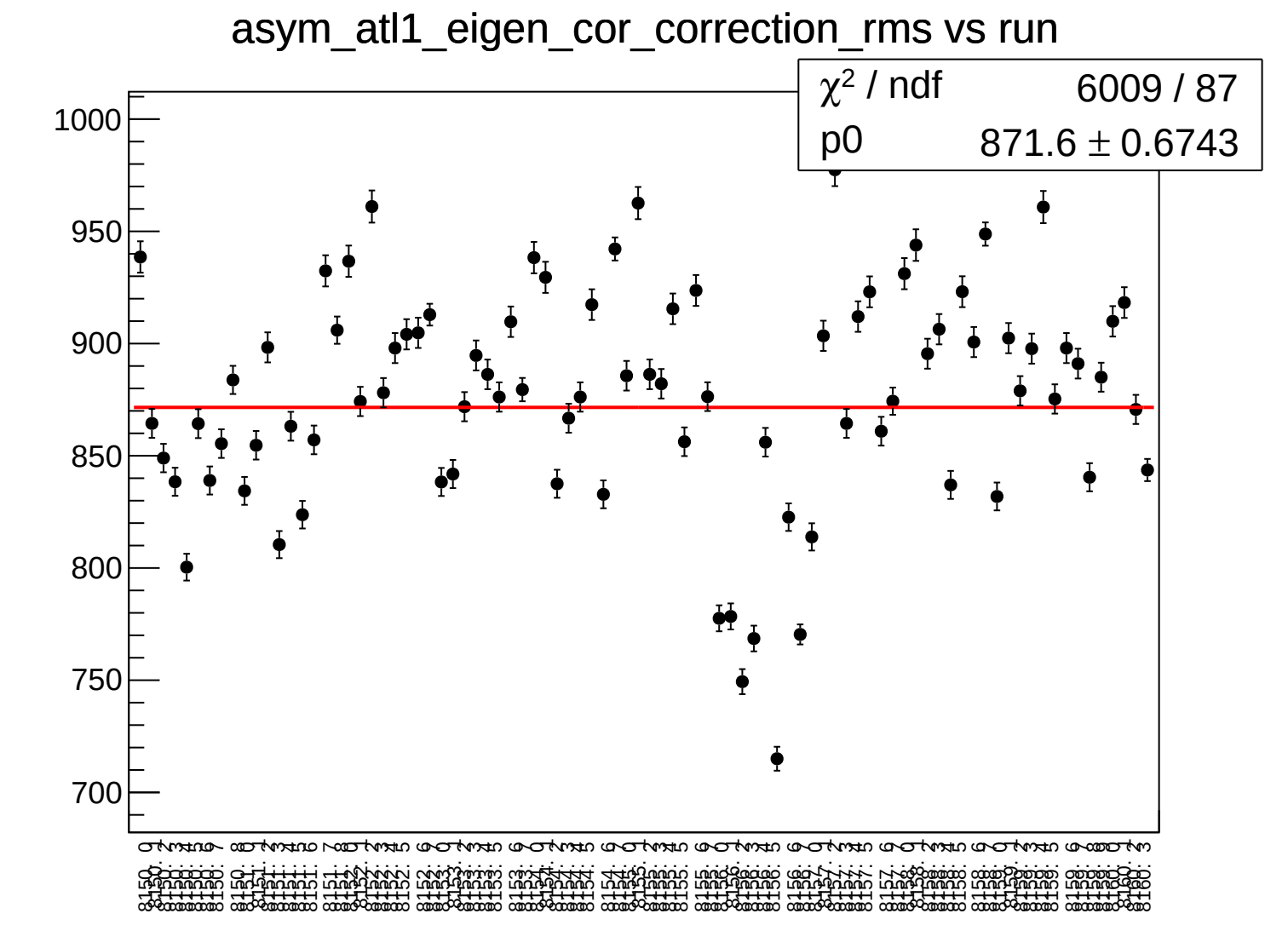
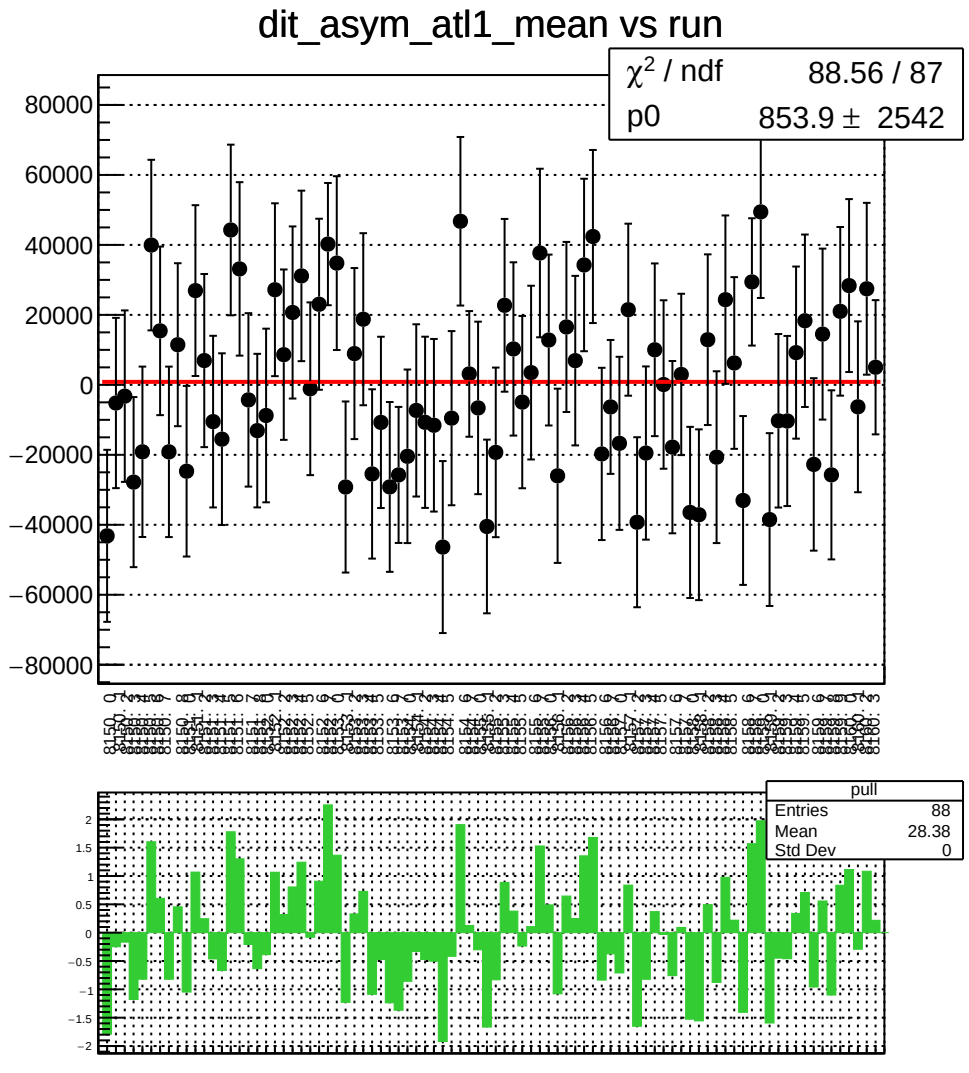
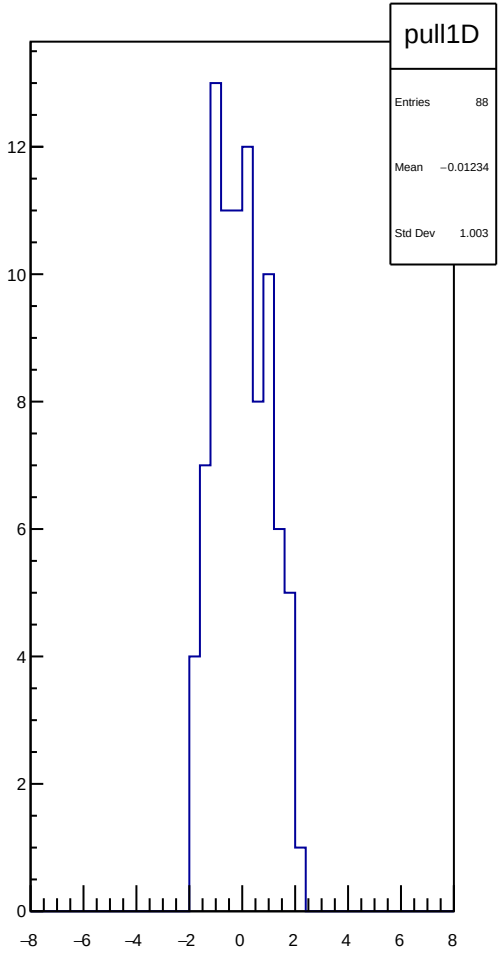
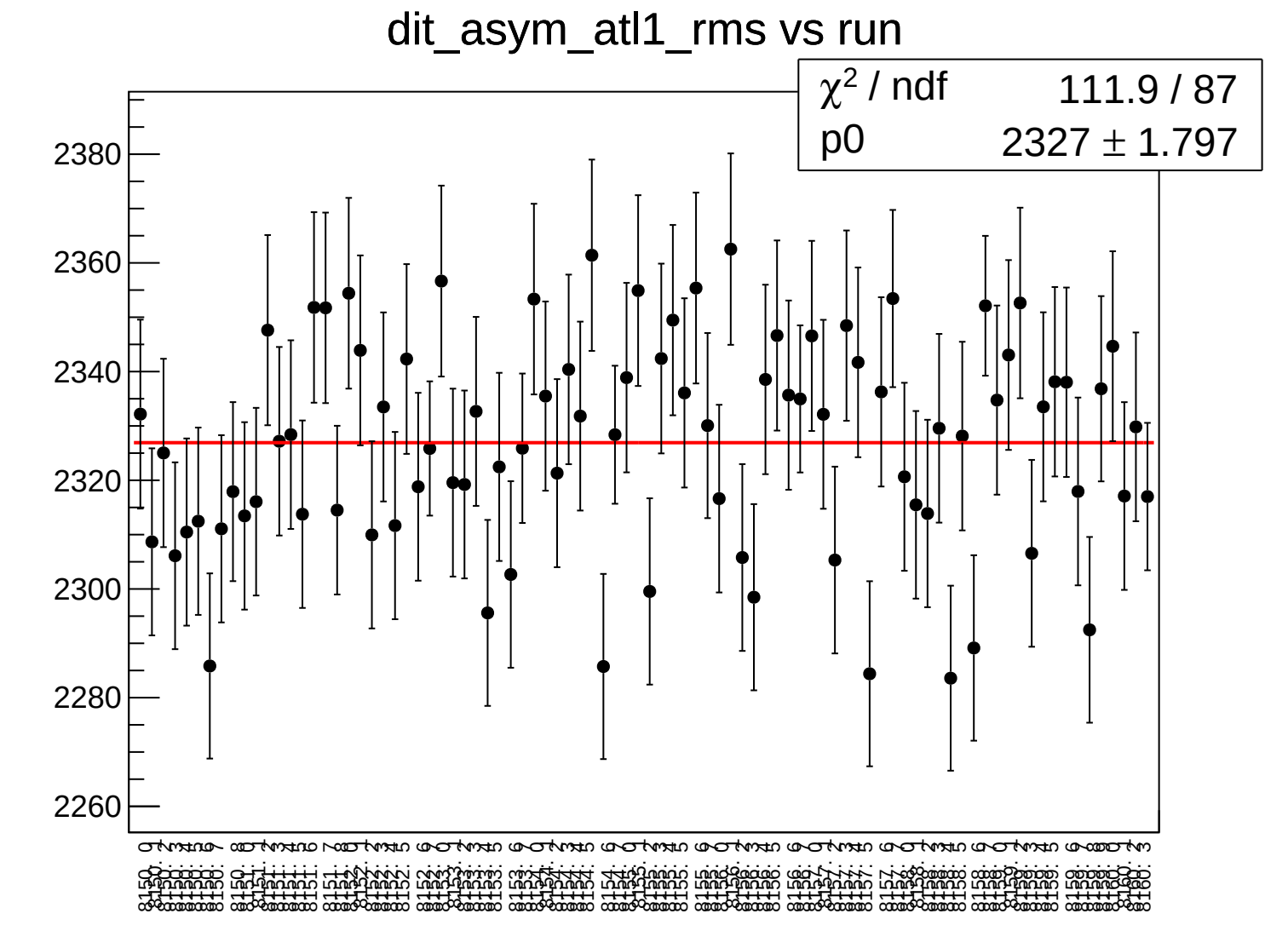
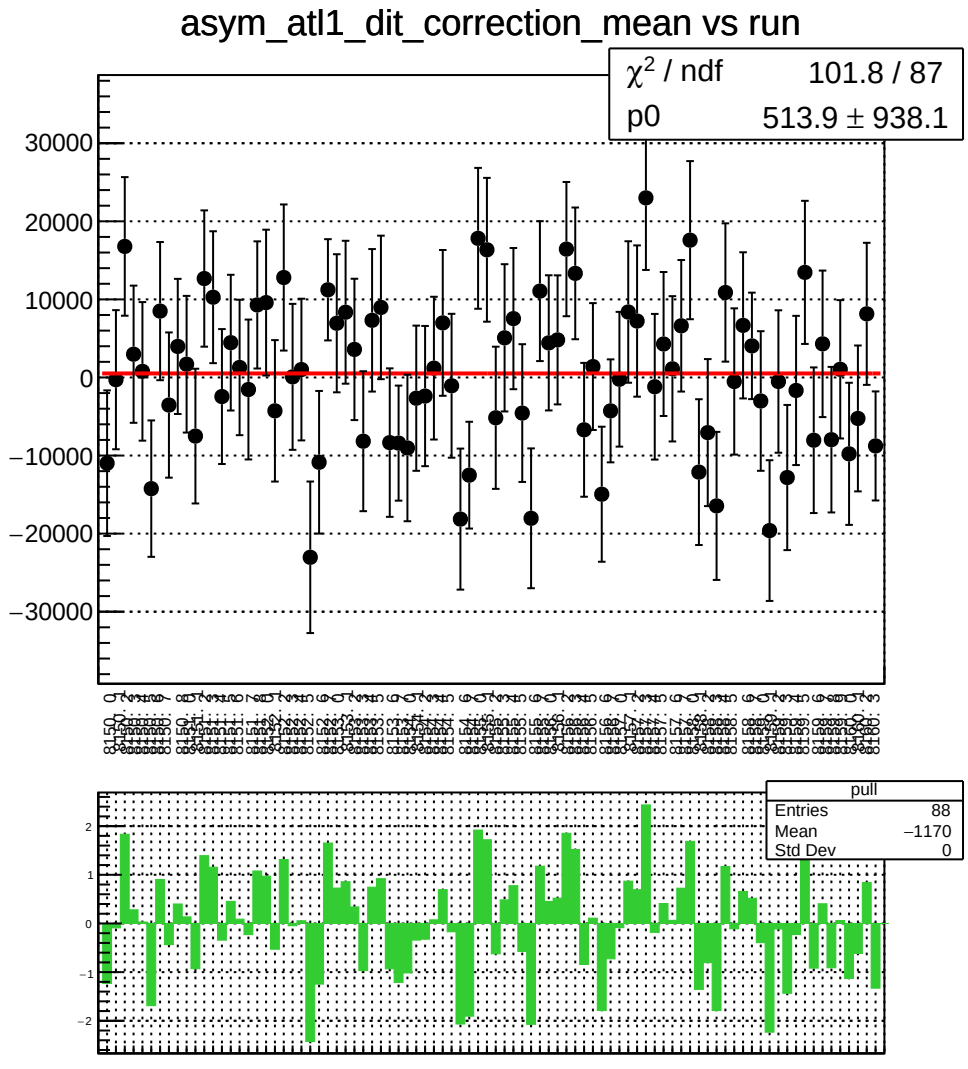
0
2
4
6
8

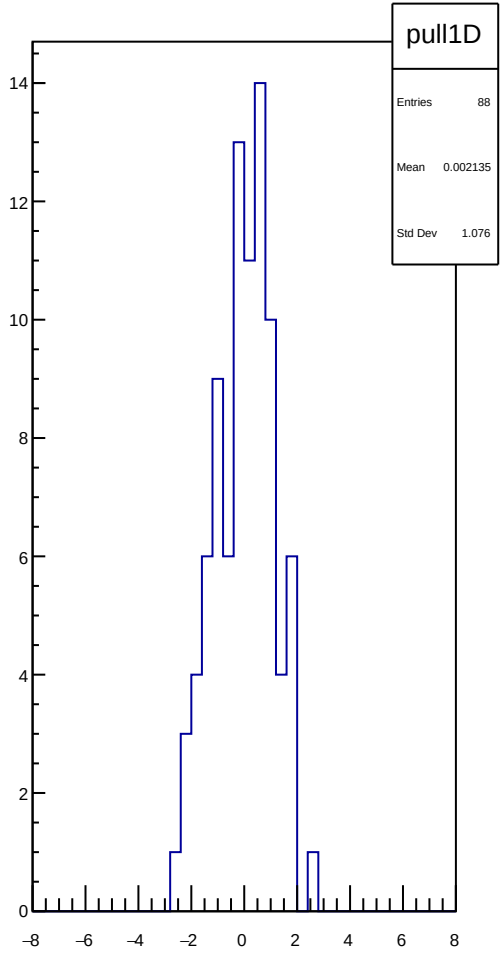

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 6009 / 87
p0 871.6 ± 0.6743
1000
950
900
850
800
750
700

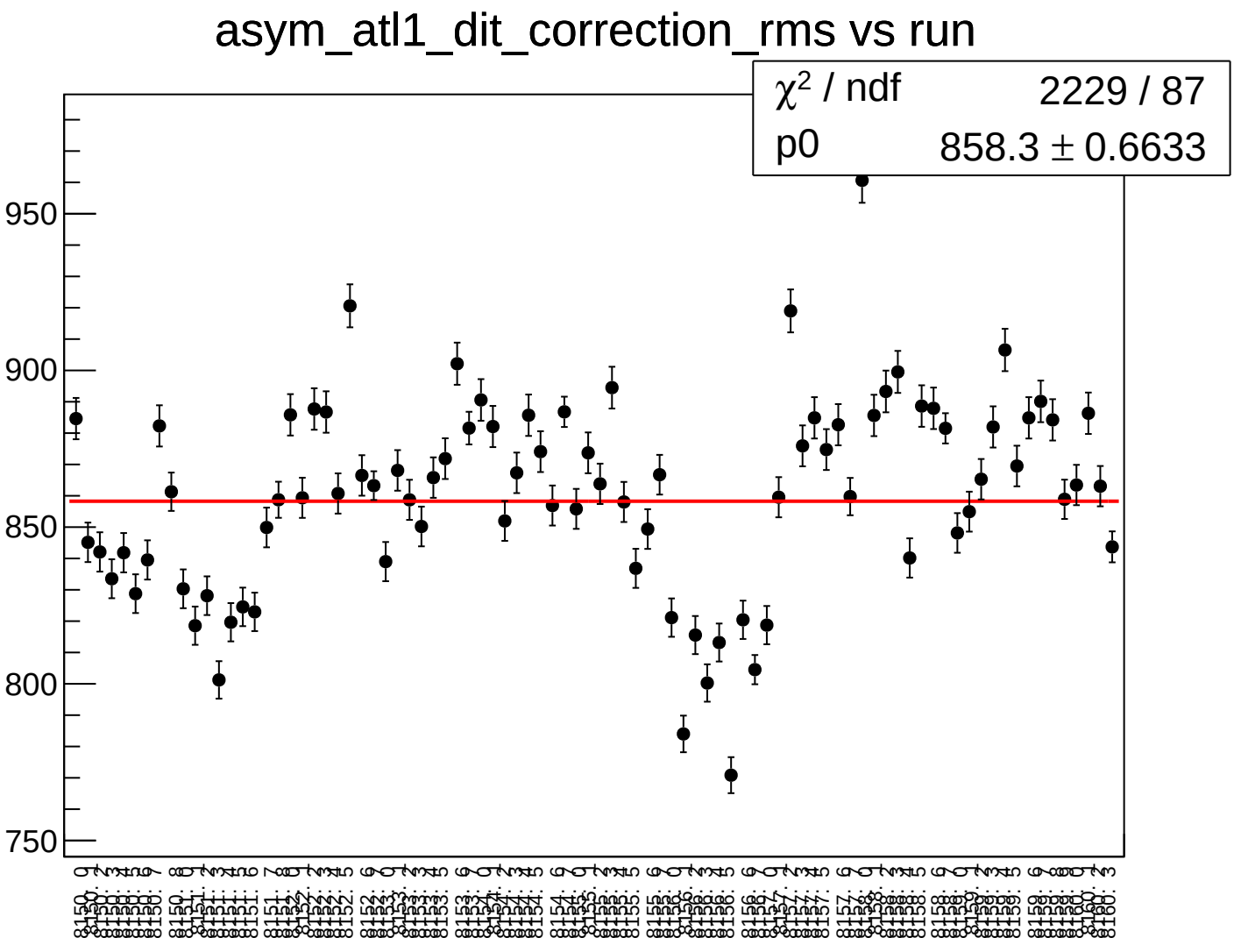

dit_asym_atl1_mean vs run
χ² / ndf 88.56 / 87
p0 853.9 ± 2542
pull
Entries 88
Mean 28.38
Std Dev 0

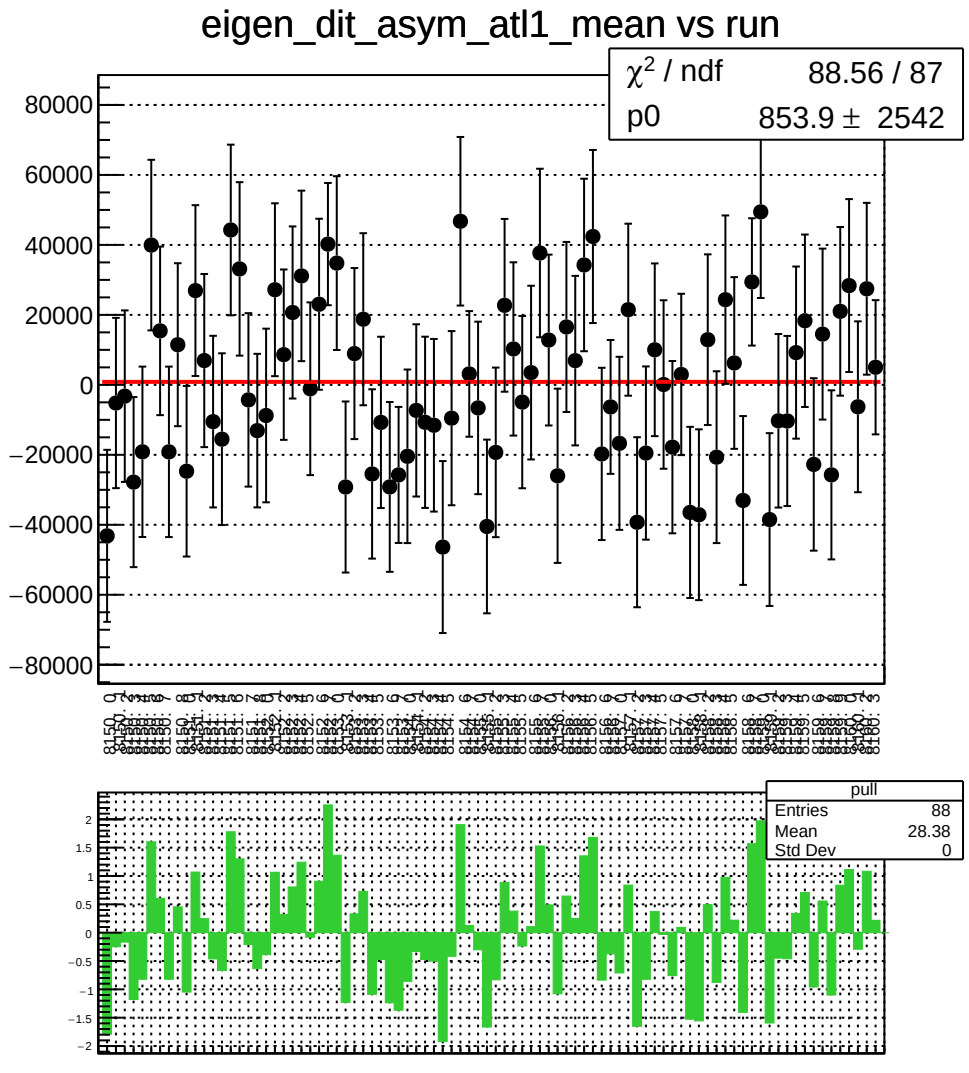

pull1D
Entries 88
Mean −0.01234
Std Dev 1.003

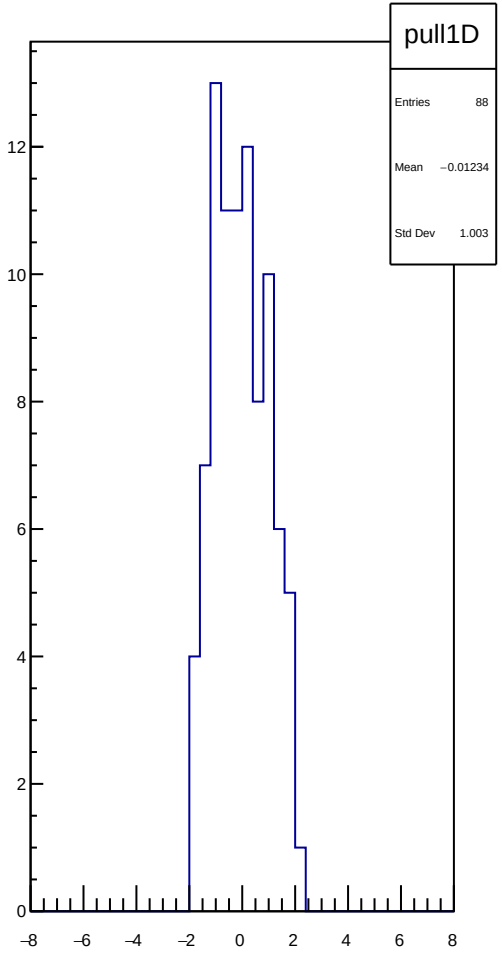

dit_asym_atl1_rms vs run
χ^2 / ndf 111.9 / 87
p0 2327 ± 1.797
2380
2360
2340
2320
2300
2280
2260

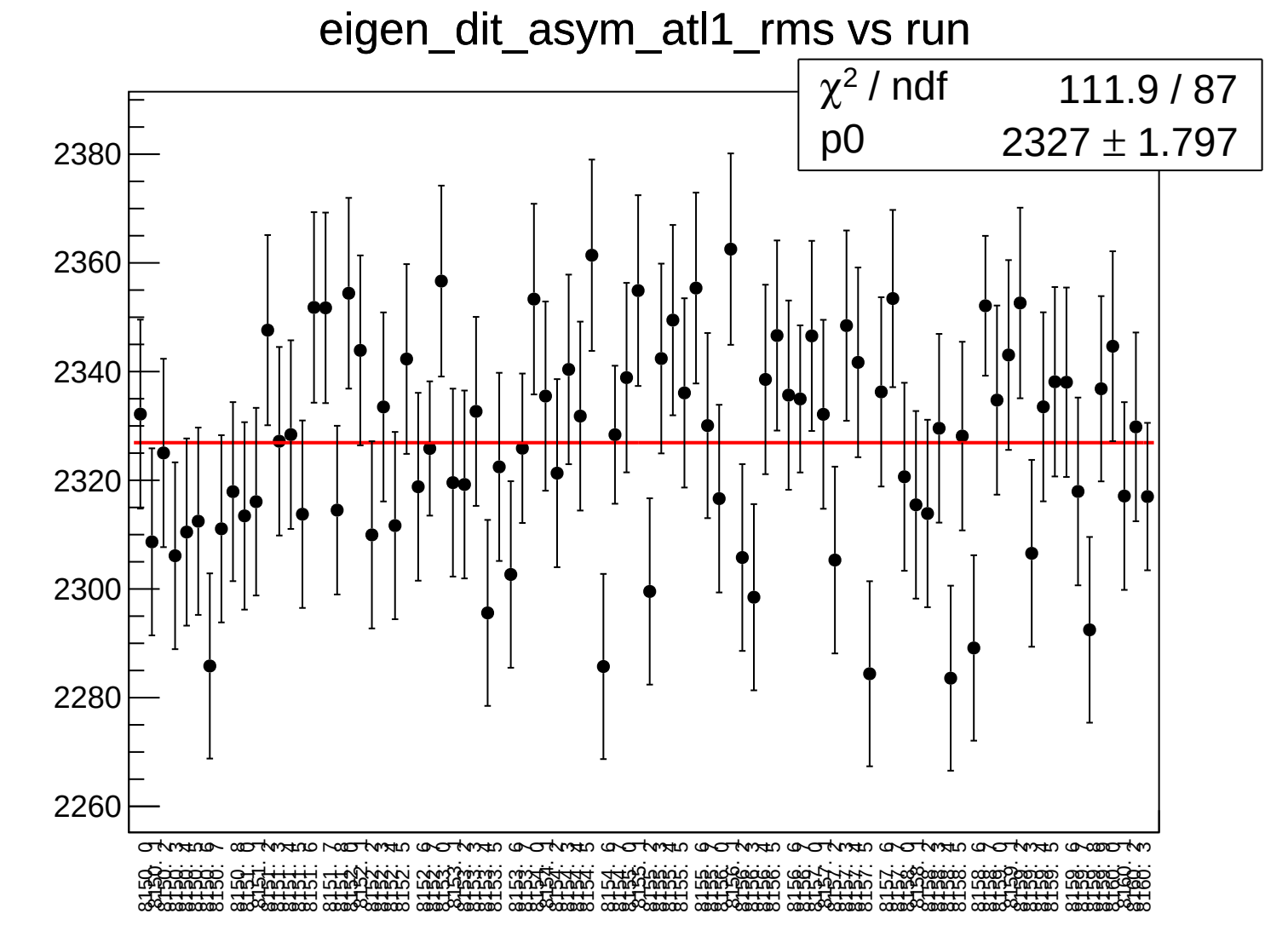

asym_atl1_dit_correction_mean vs run
χ² / ndf 101.8 / 87
p0 513.9 ± 938.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1170
Std Dev 0
2
1
0
−1
−2

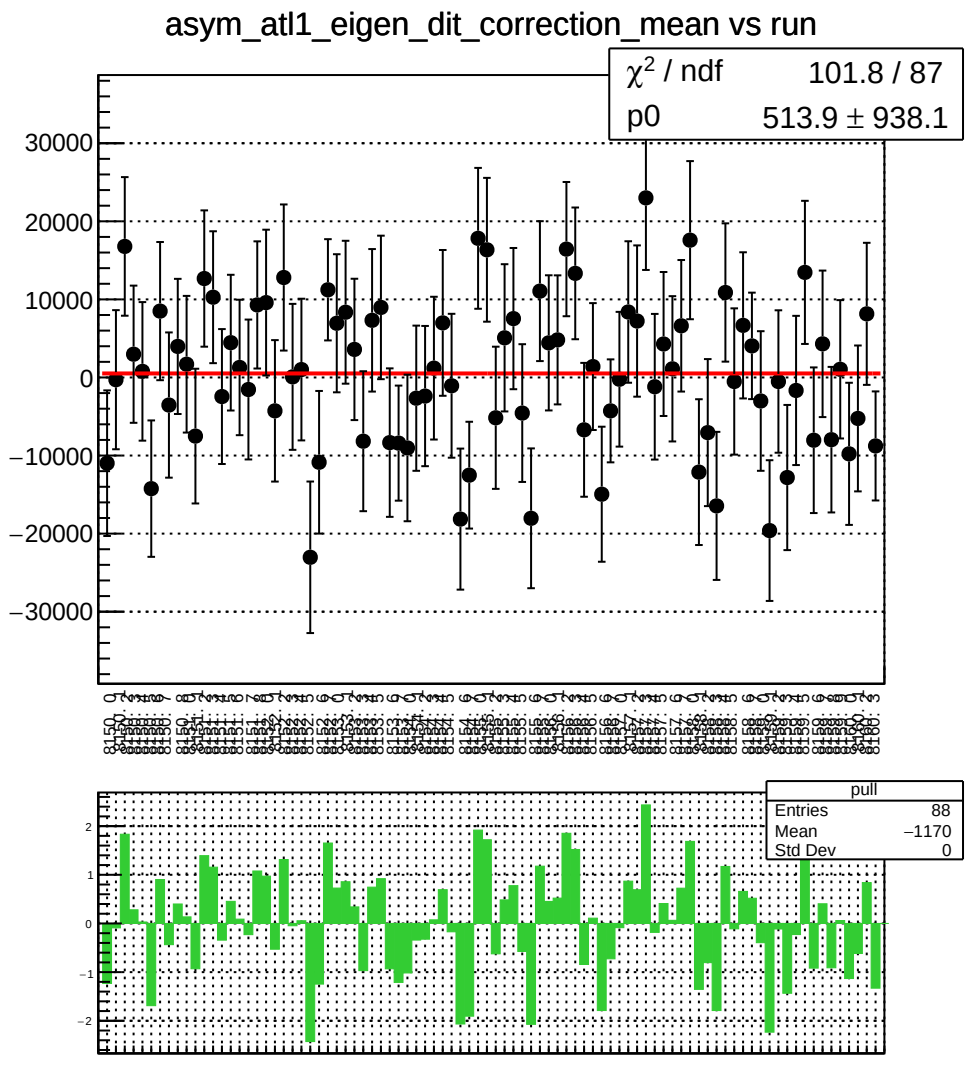

pull1D
Entries 88
Mean 0.002135
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

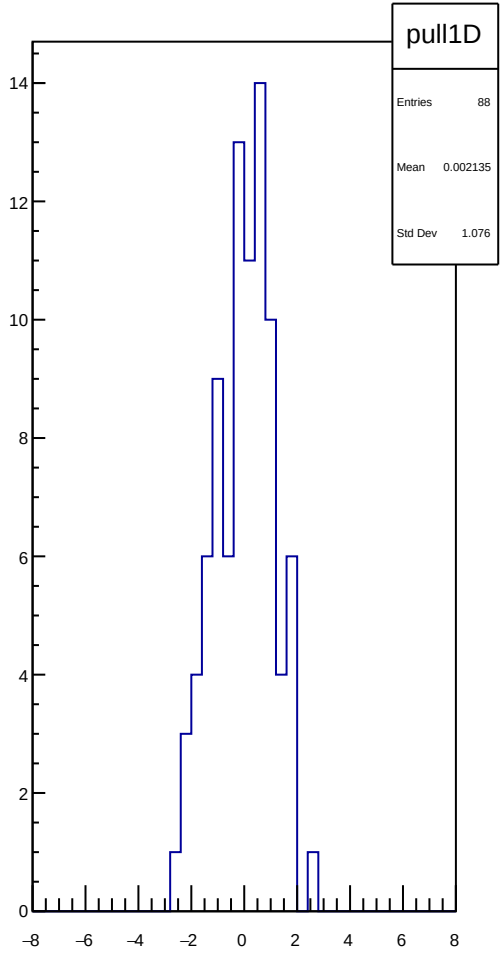

asym_atl1_dit_correction_rms vs run
χ² / ndf 2229 / 87
p0 858.3 ± 0.6633
950
900
850
800
750

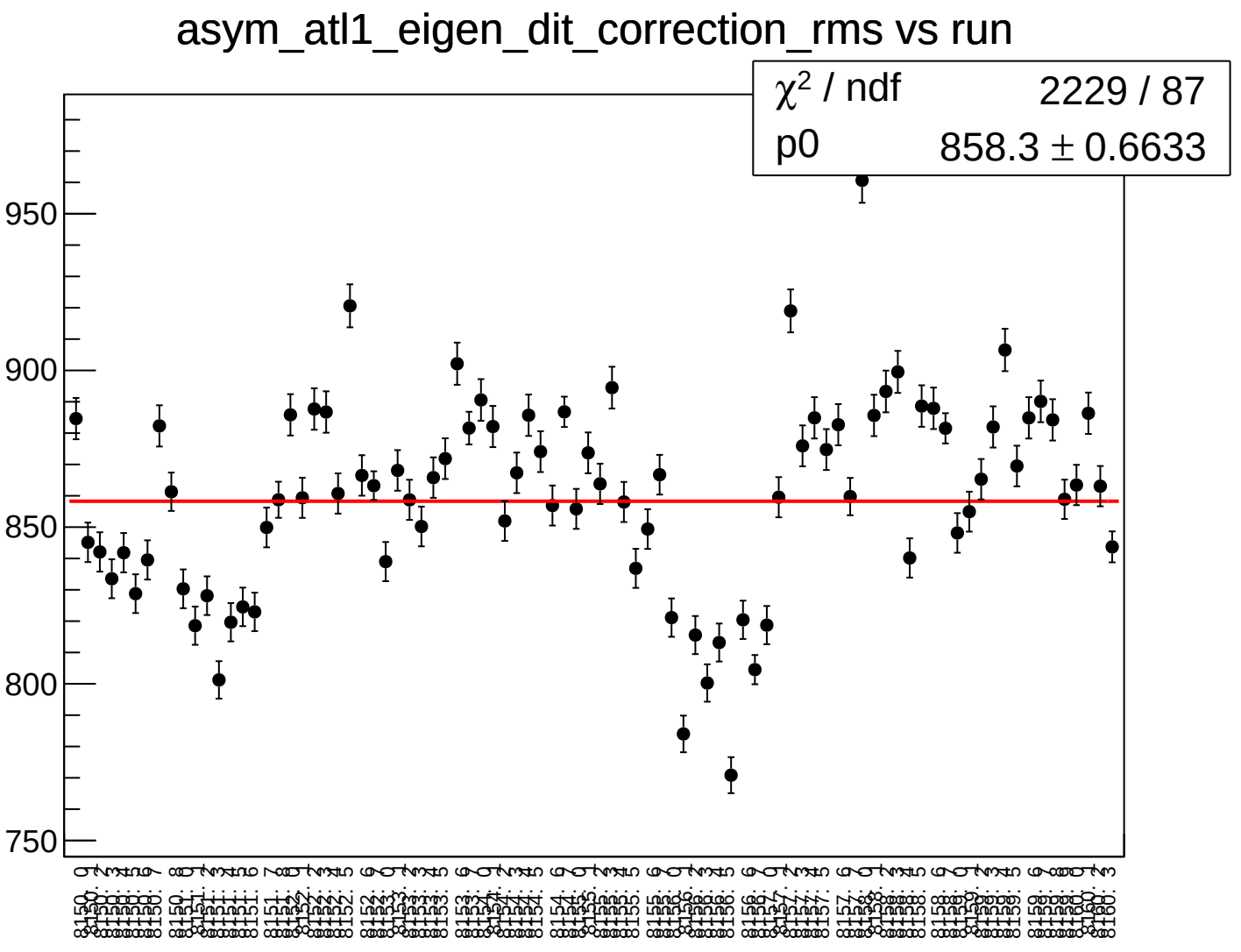

eigen_dit_asym_atl1_mean vs run
χ² / ndf 88.56 / 87
p0 853.9 ± 2542
pull
Entries 88
Mean 28.38
Std Dev 0

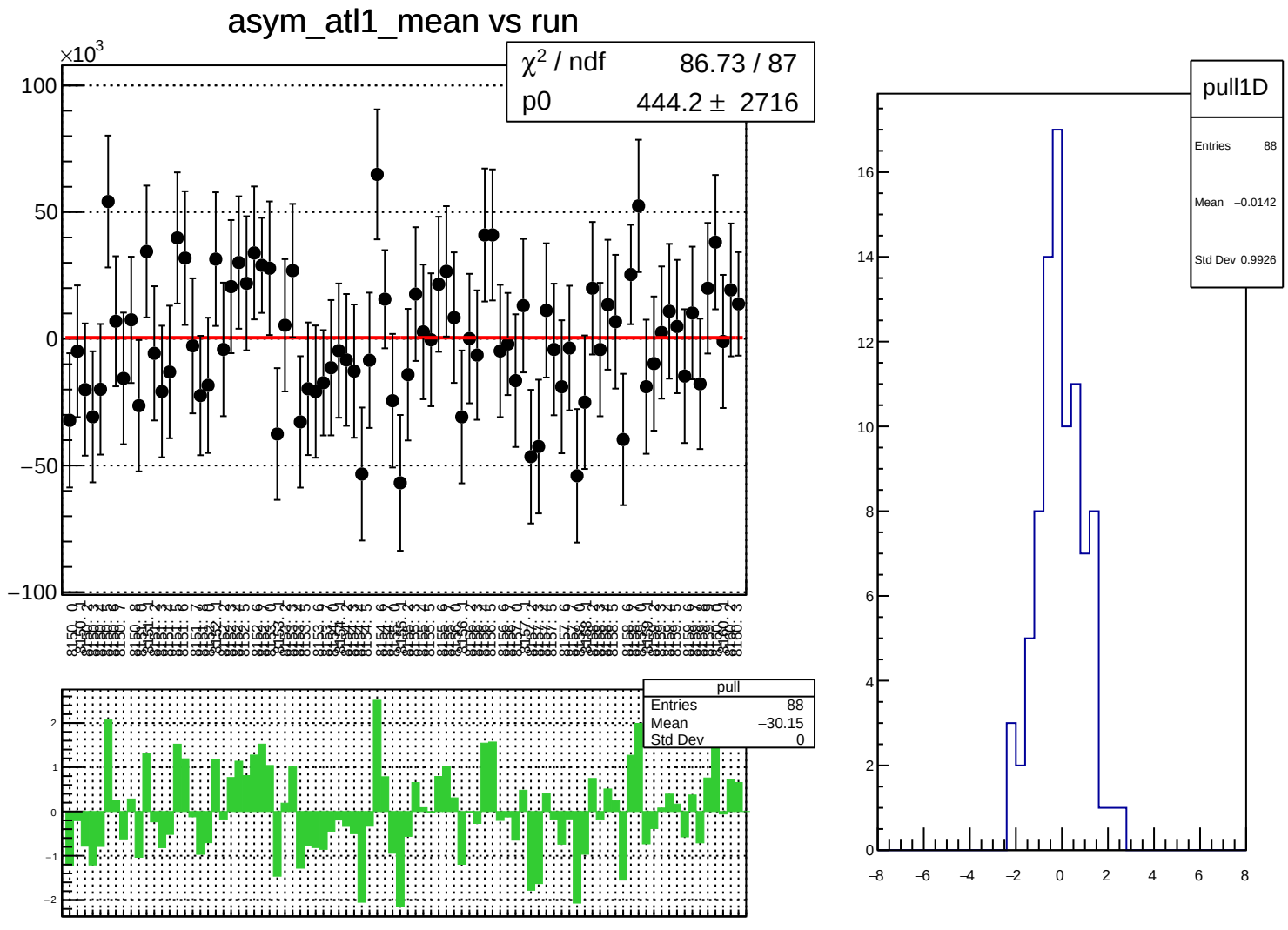

pull1D
Entries 88
Mean −0.01234
Std Dev 1.003

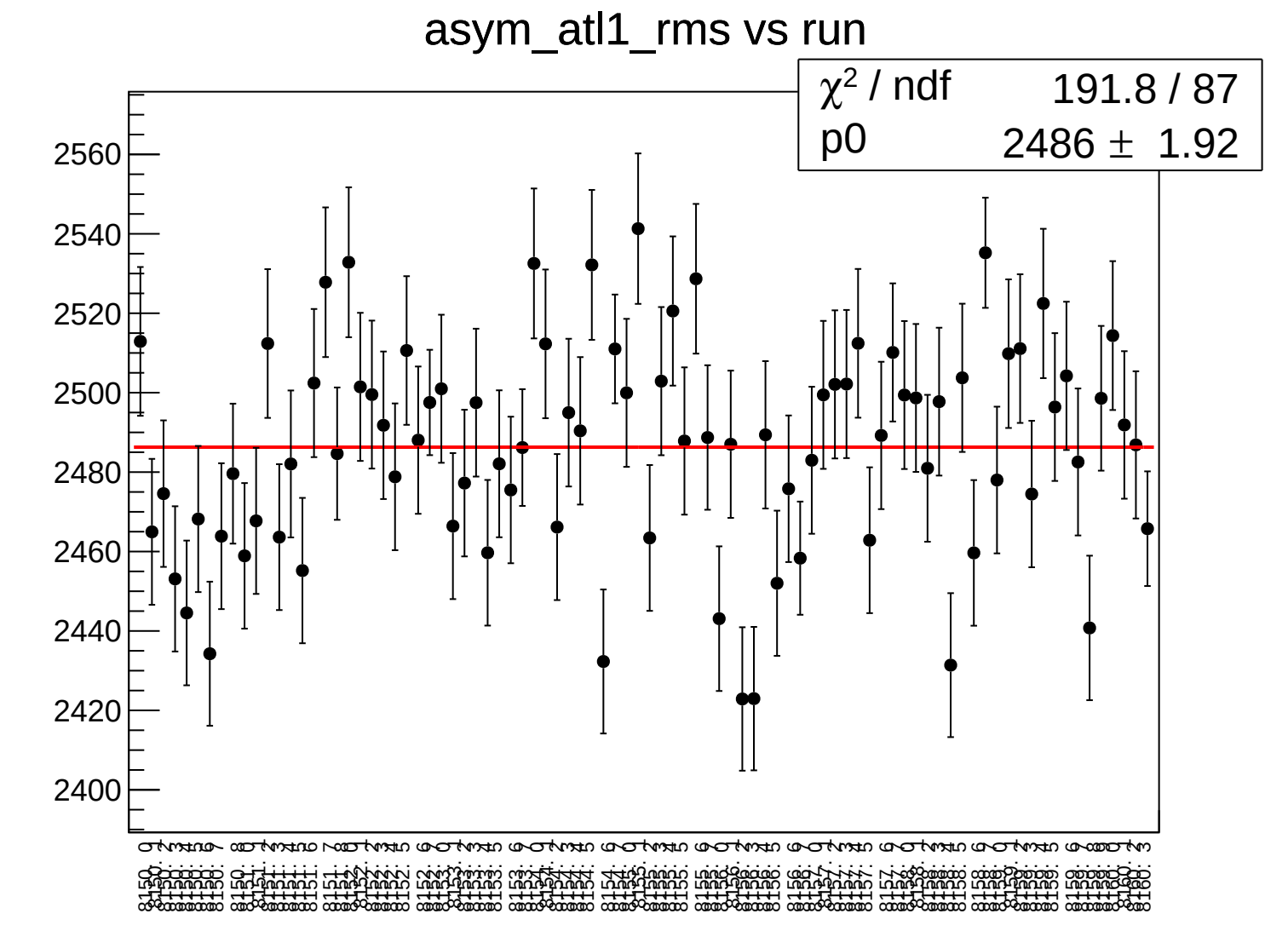

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 111.9 / 87
p0 2327 ± 1.797
2380
2360
2340
2320
2300
2280
2260

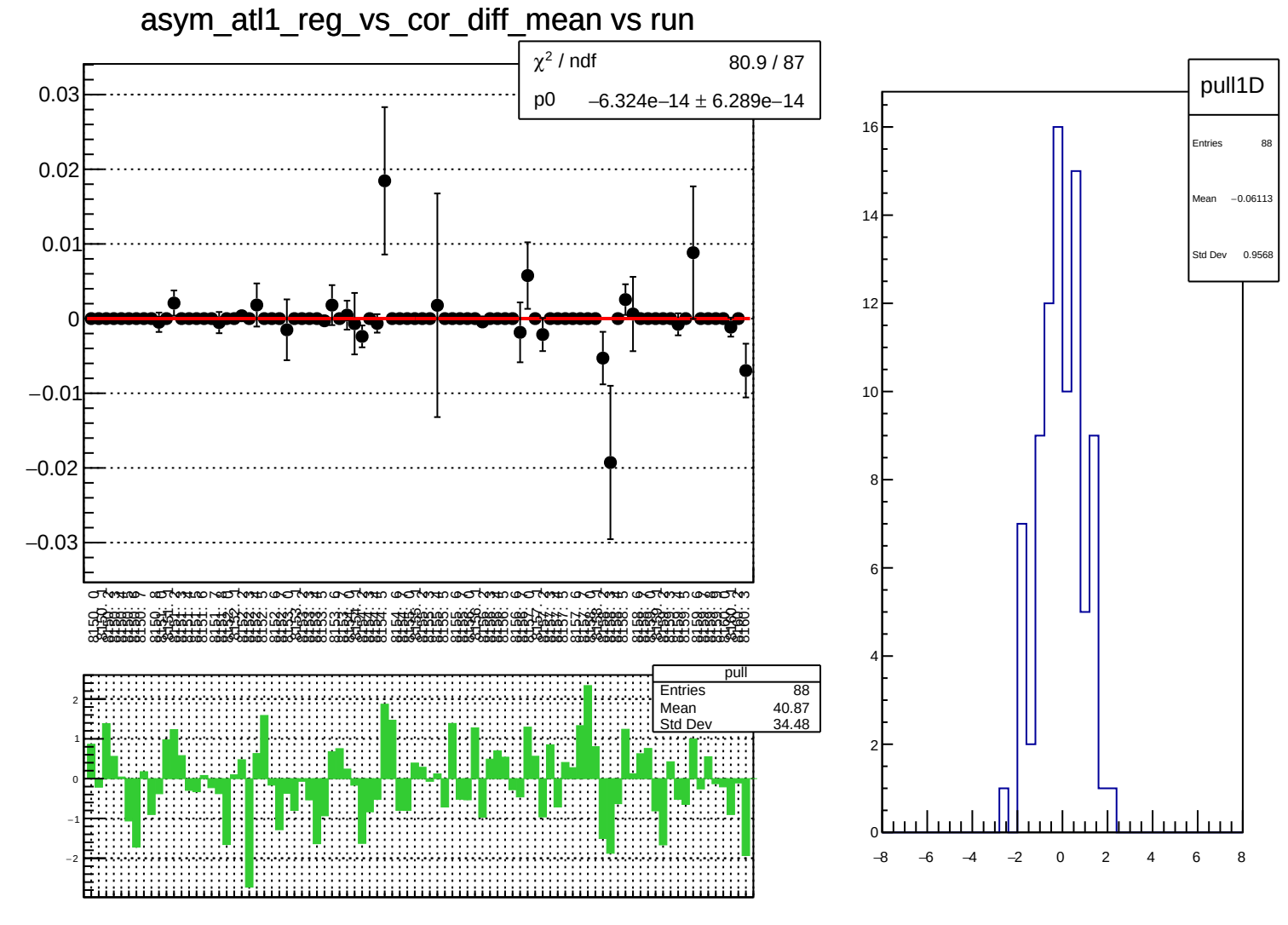

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 101.8 / 87
p0 513.9 ± 938.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1170
Std Dev 0
2
1
0
−1
−2

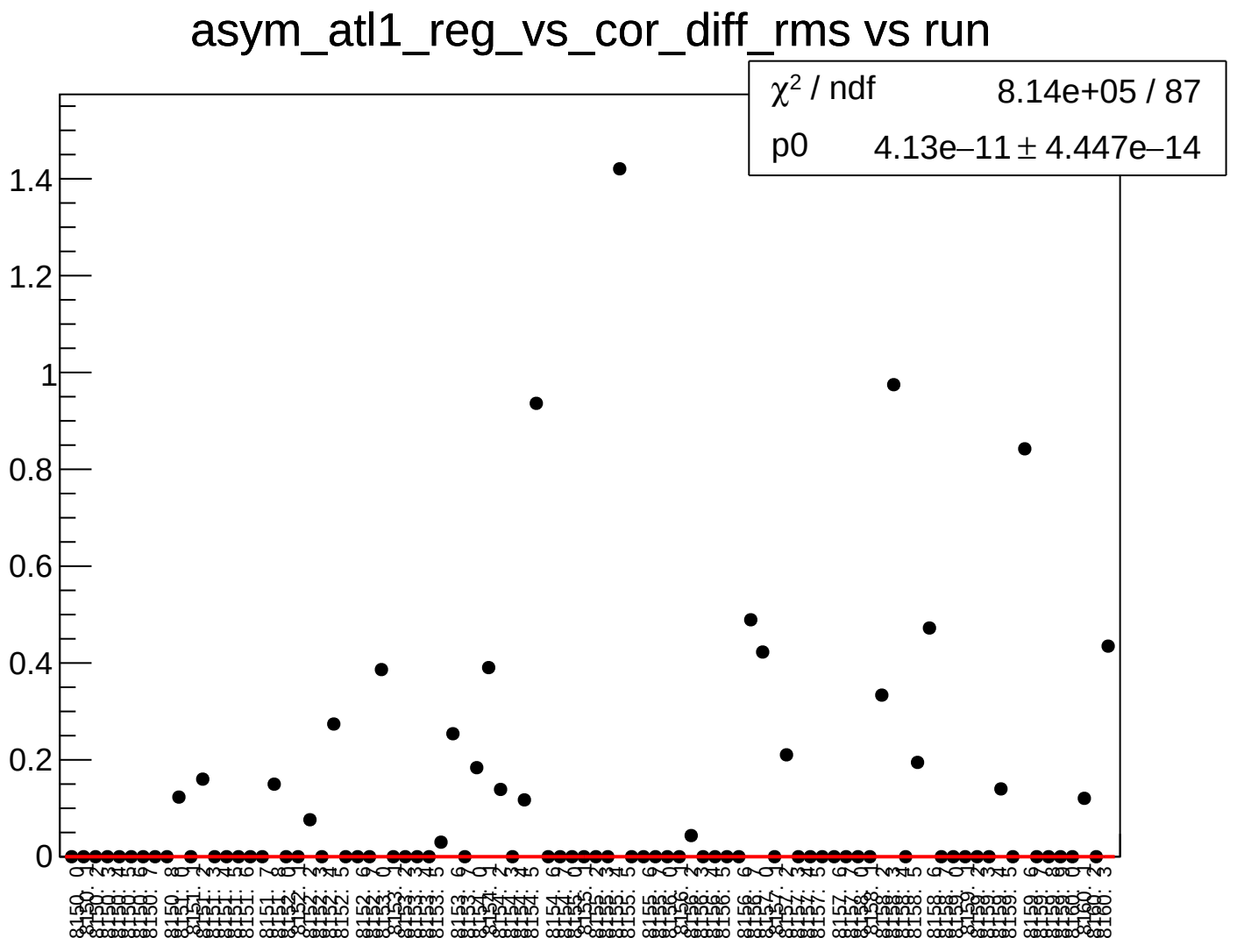

pull1D
Entries 88
Mean 0.002135
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

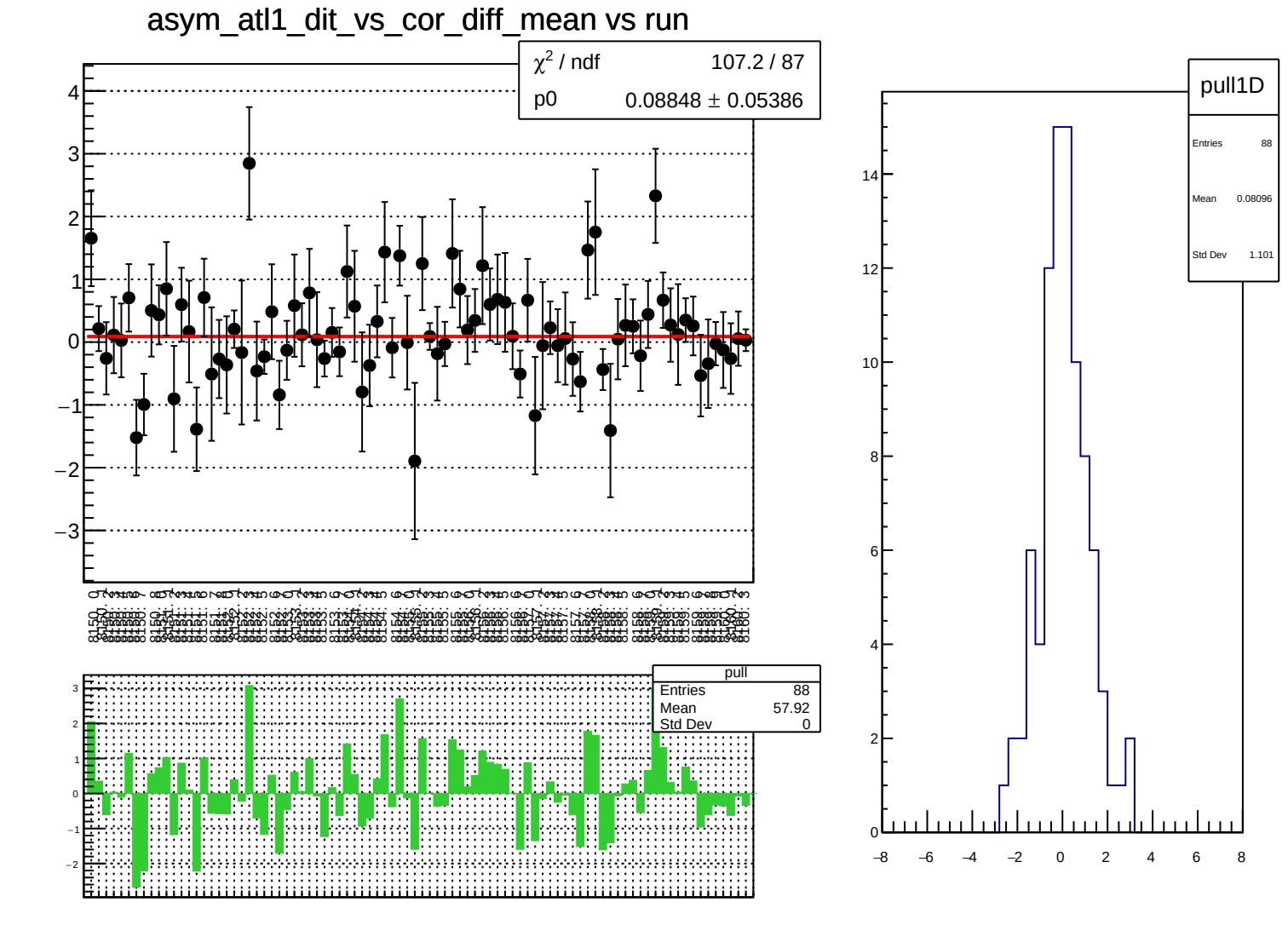

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 2229 / 87
p0 858.3 ± 0.6633
950
900
850
800
750

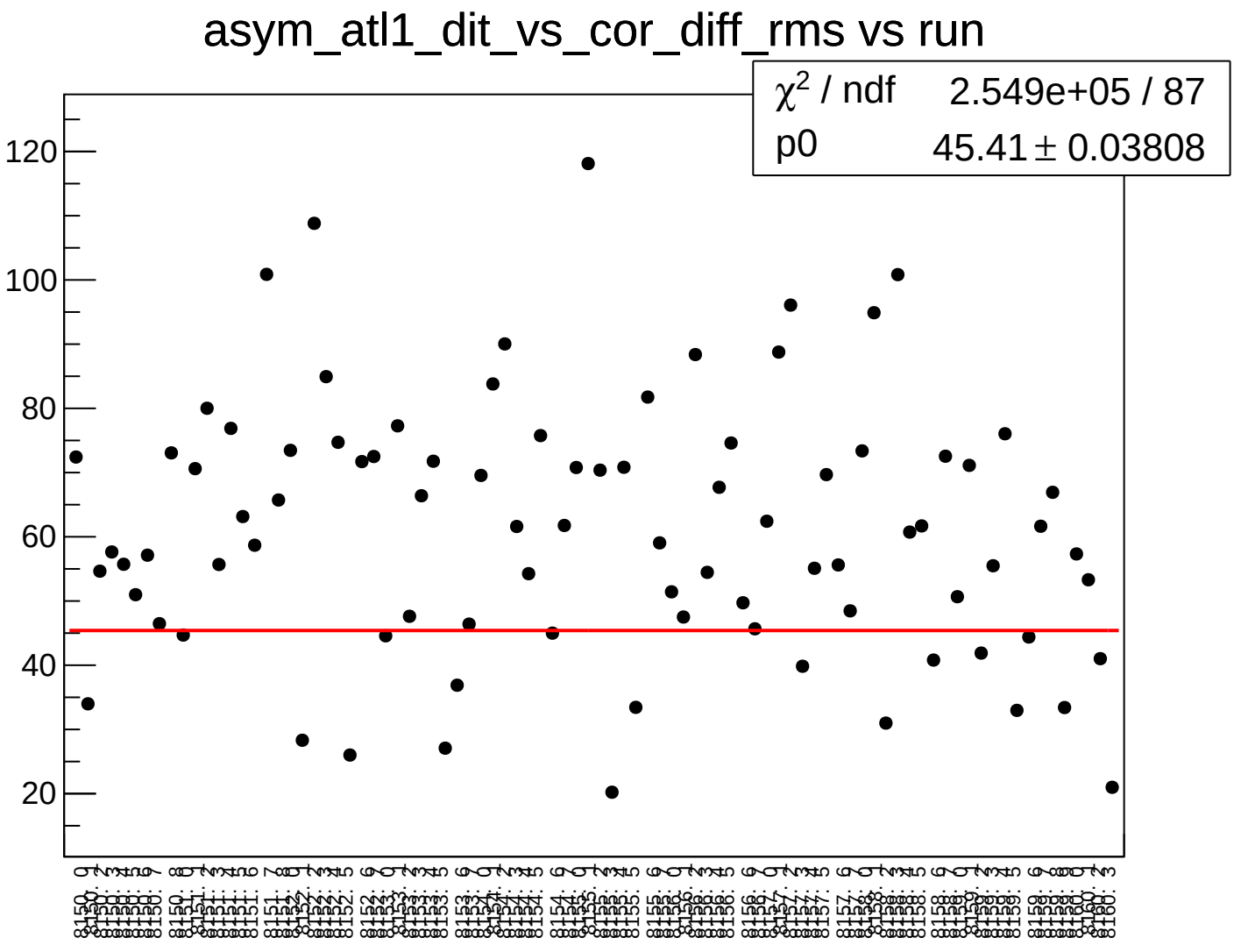

asym_atl1_mean vs run
×10^3
χ^2 / ndf 86.73 / 87
p0 444.2 ± 2716
100
50
0
−50
−100
pull
Entries 88
Mean −30.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0142
Std Dev 0.9926
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

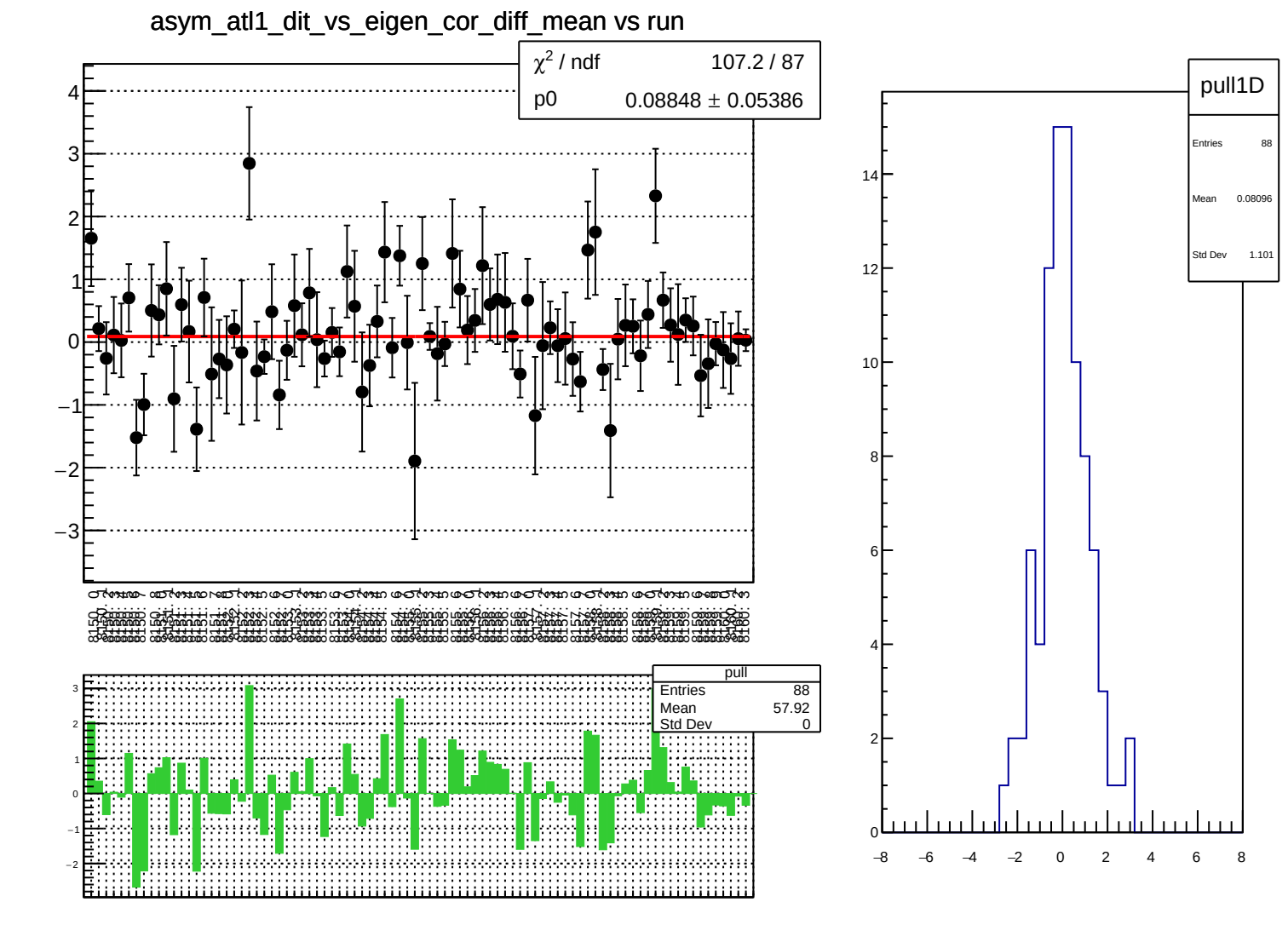

asym_atl1_rms vs run
χ² / ndf 191.8 / 87
p0 2486 ± 1.92
2560
2540
2520
2500
2480
2460
2440
2420
2400

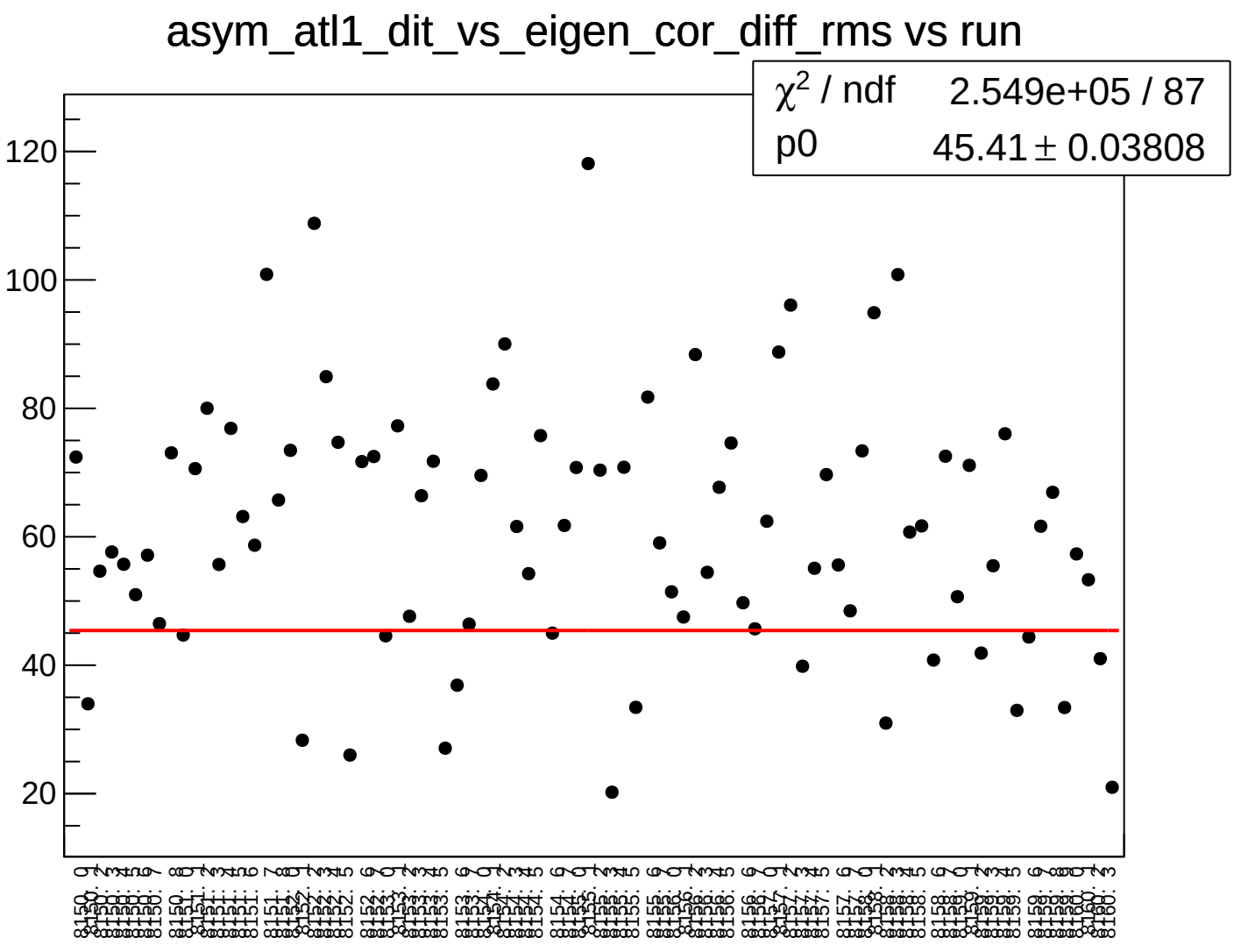

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 80.9 / 87
p0 −6.324e−14 ± 6.289e−14
pull
Entries 88
Mean 40.87
Std Dev 34.48
pull1D
Entries 88
Mean −0.06113
Std Dev 0.9568

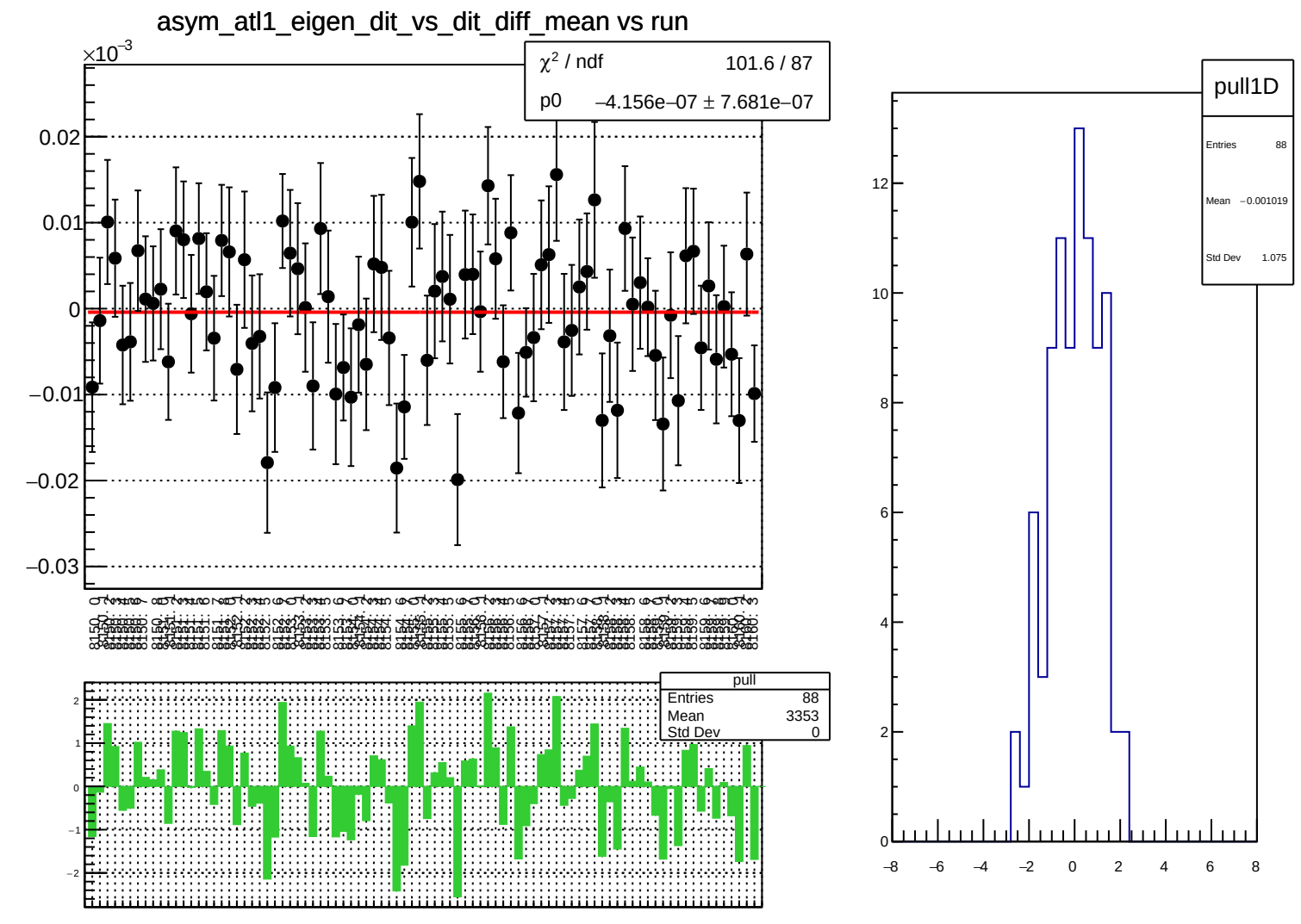

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 8.14e+05 / 87
p0 4.13e−11 ± 4.447e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

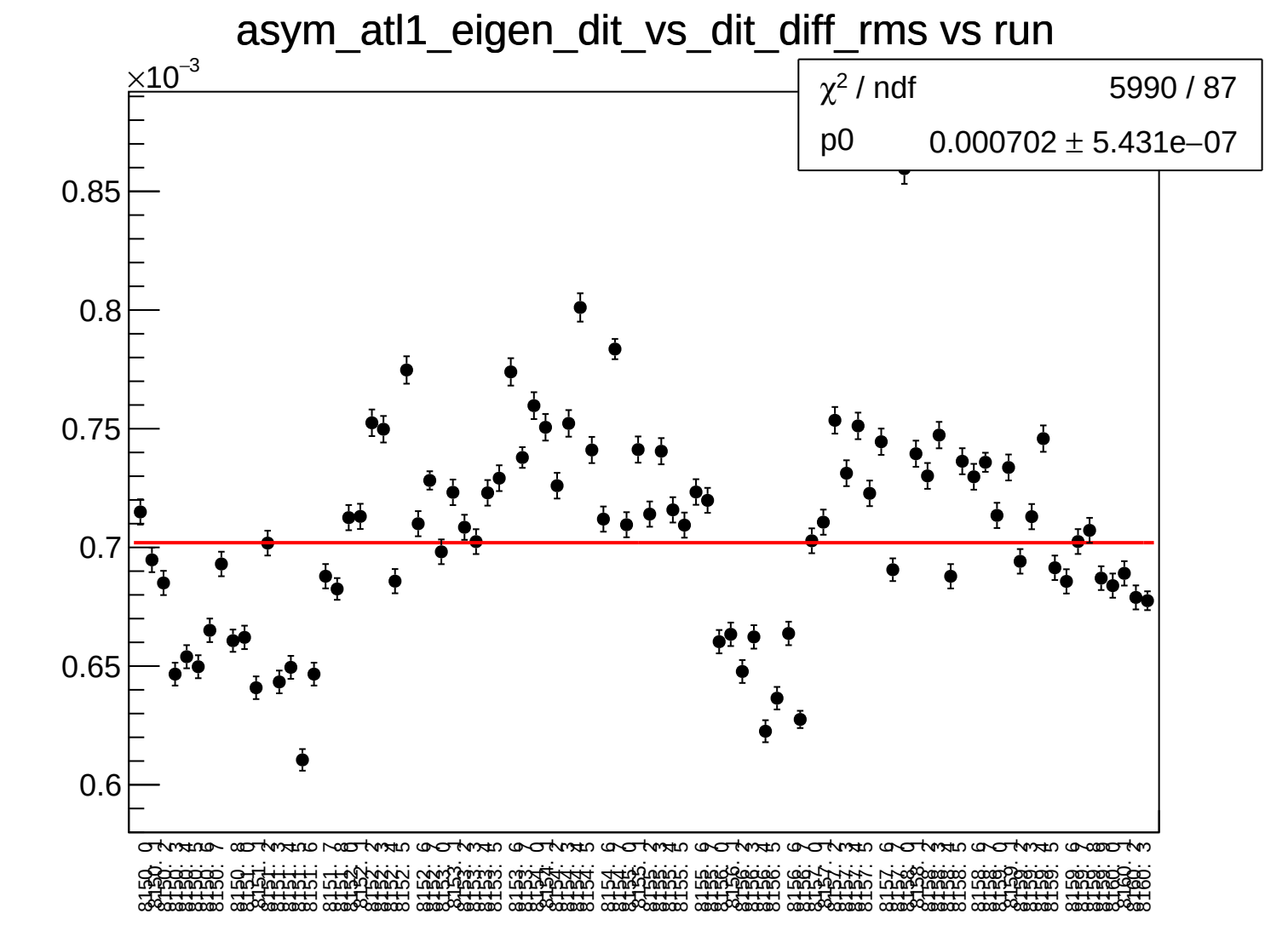

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 107.2 / 87
p0 0.08848 ± 0.05386
pull
Entries 88
Mean 57.92
Std Dev 0
pull1D
Entries 88
Mean 0.08096
Std Dev 1.101

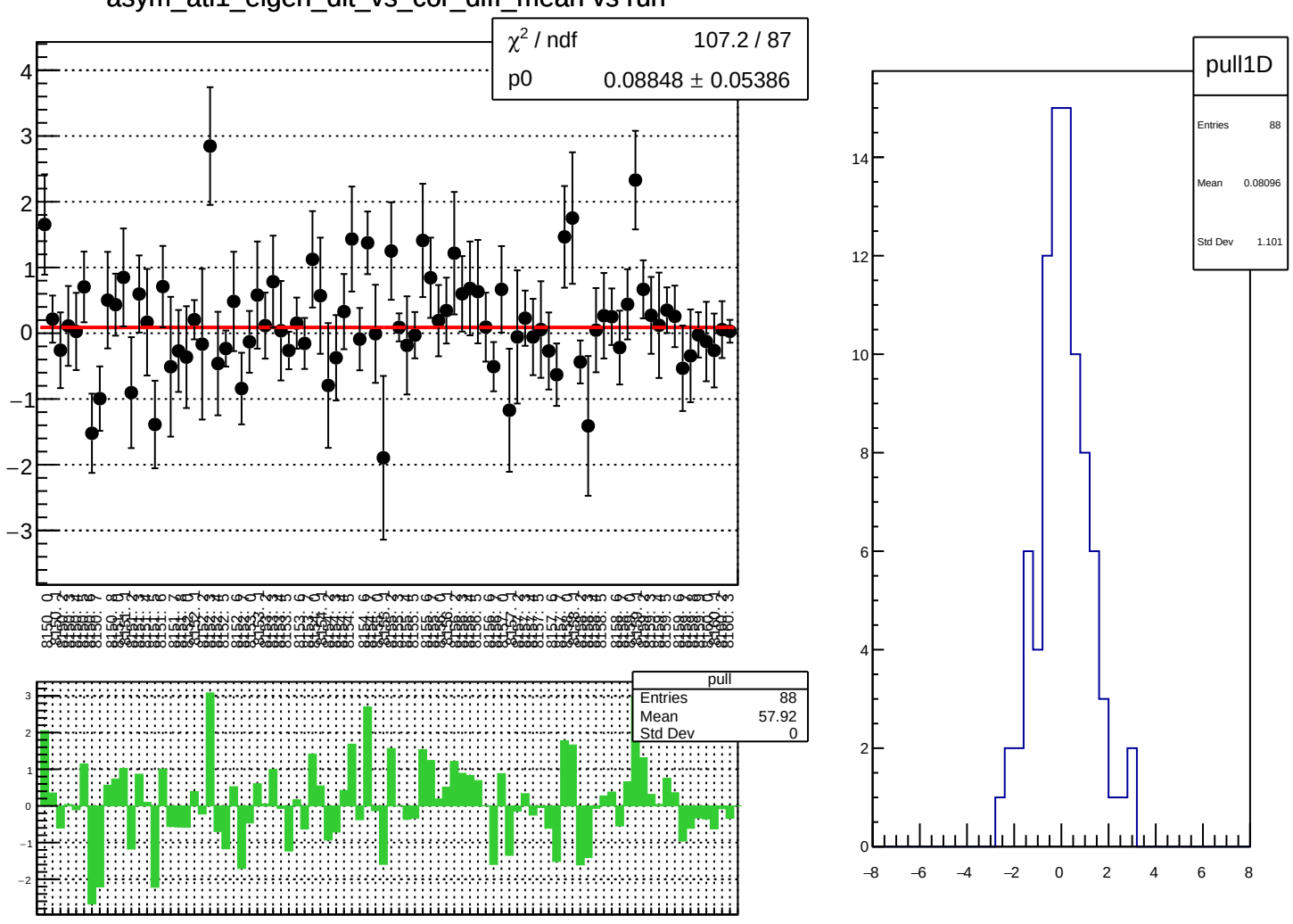

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.549e+05 / 87
p0 45.41 ± 0.03808
120
100
80
60
40
20

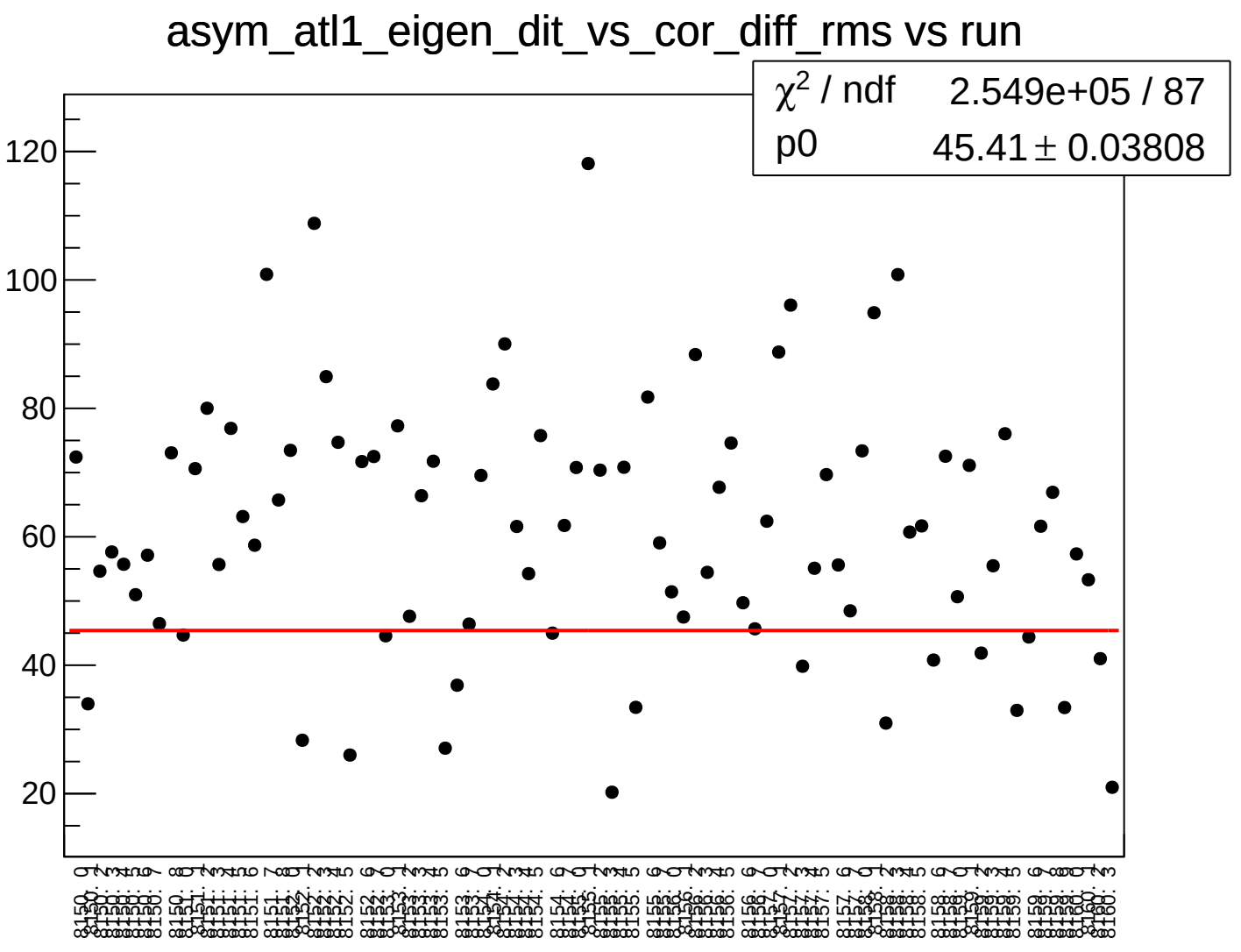

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.2 / 87
p0 0.08848 ± 0.05386
pull
Entries 88
Mean 57.92
Std Dev 0
pull1D
Entries 88
Mean 0.08096
Std Dev 1.101

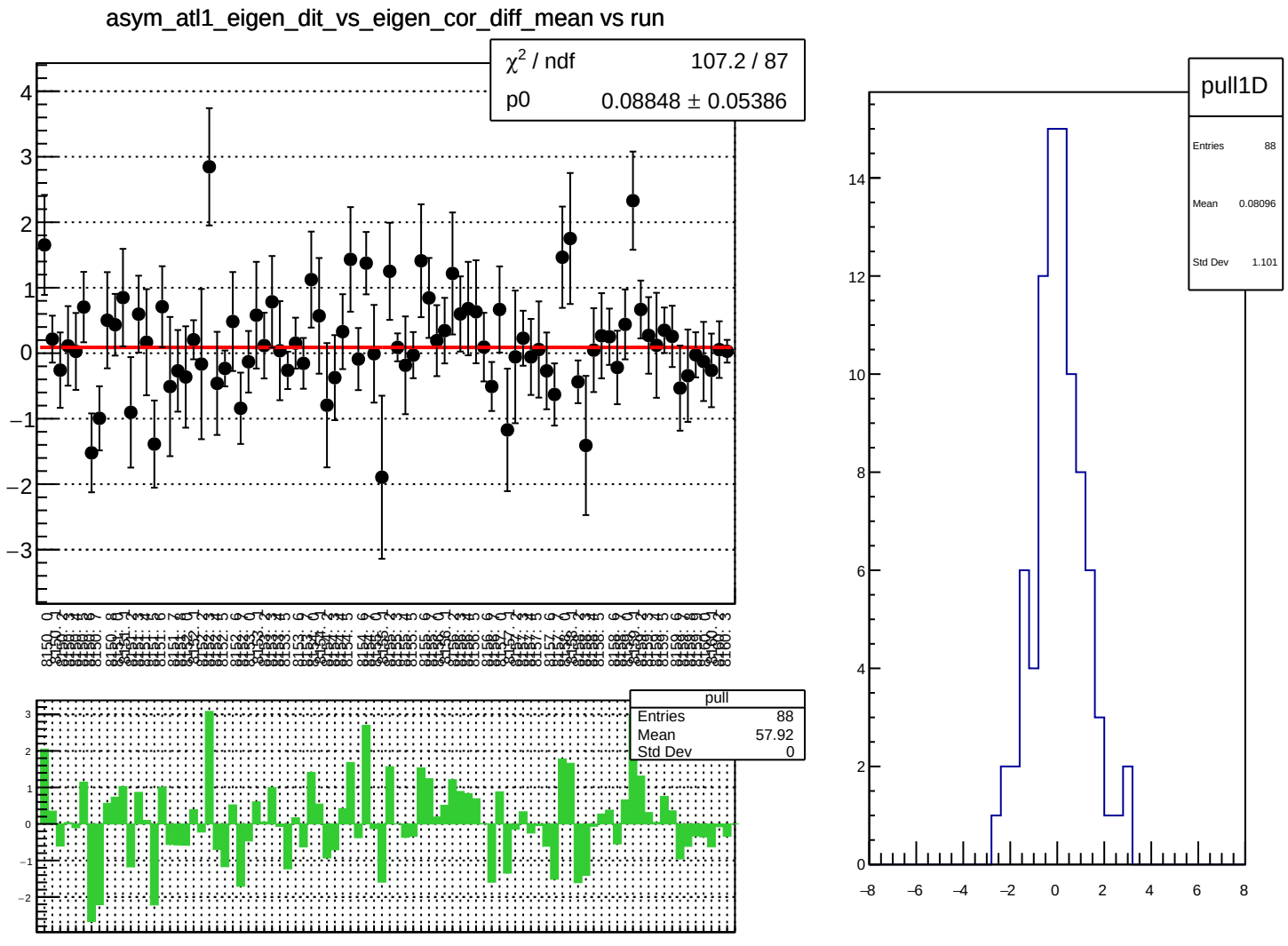

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.549e+05 / 87
p0 45.41 ± 0.03808
120
100
80
60
40
20

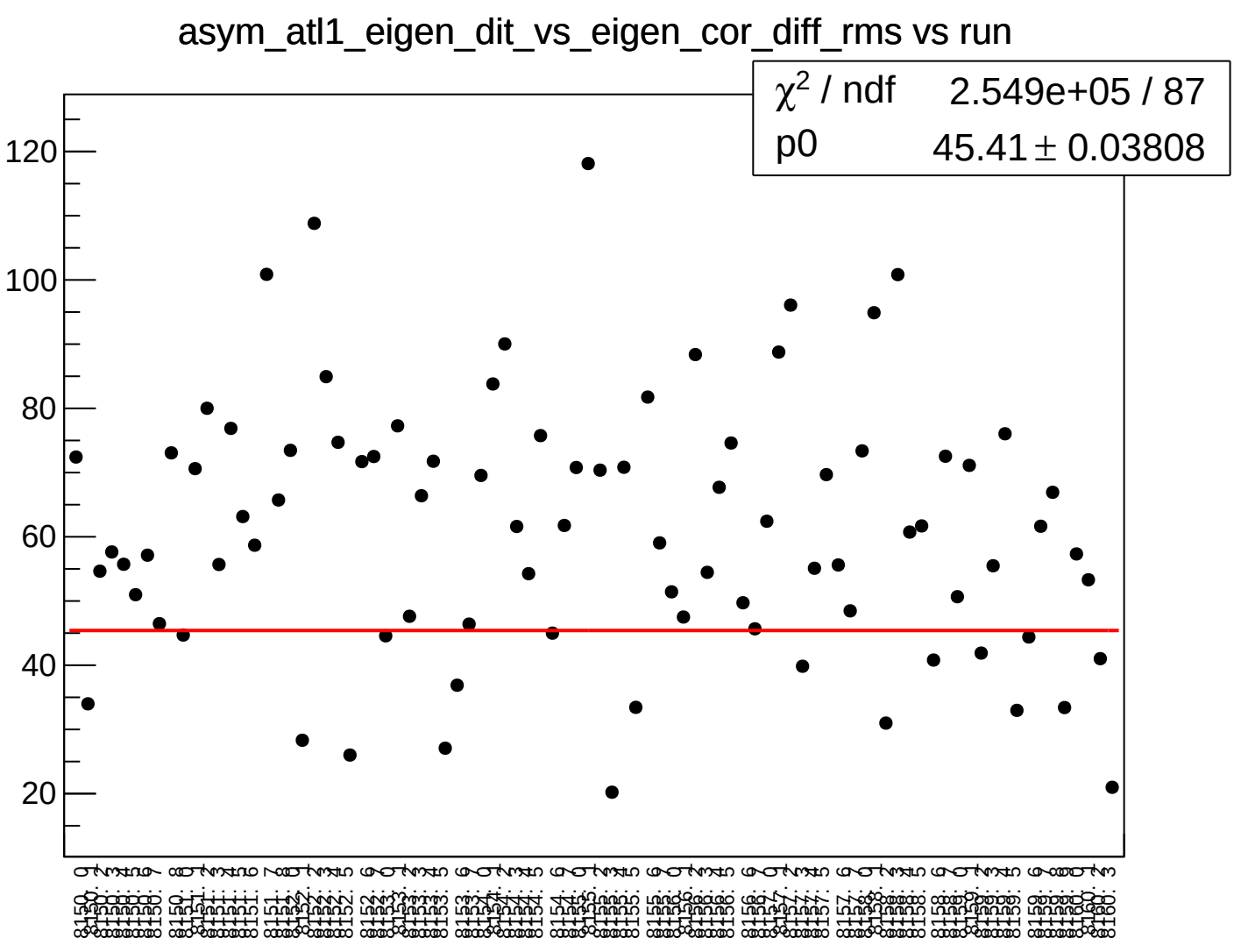

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 101.6 / 87
p0 −4.156e−07 ± 7.681e−07
×10⁻³
pull
Entries 88
Mean 3353
Std Dev 0
pull1D
Entries 88
Mean −0.001019
Std Dev 1.075

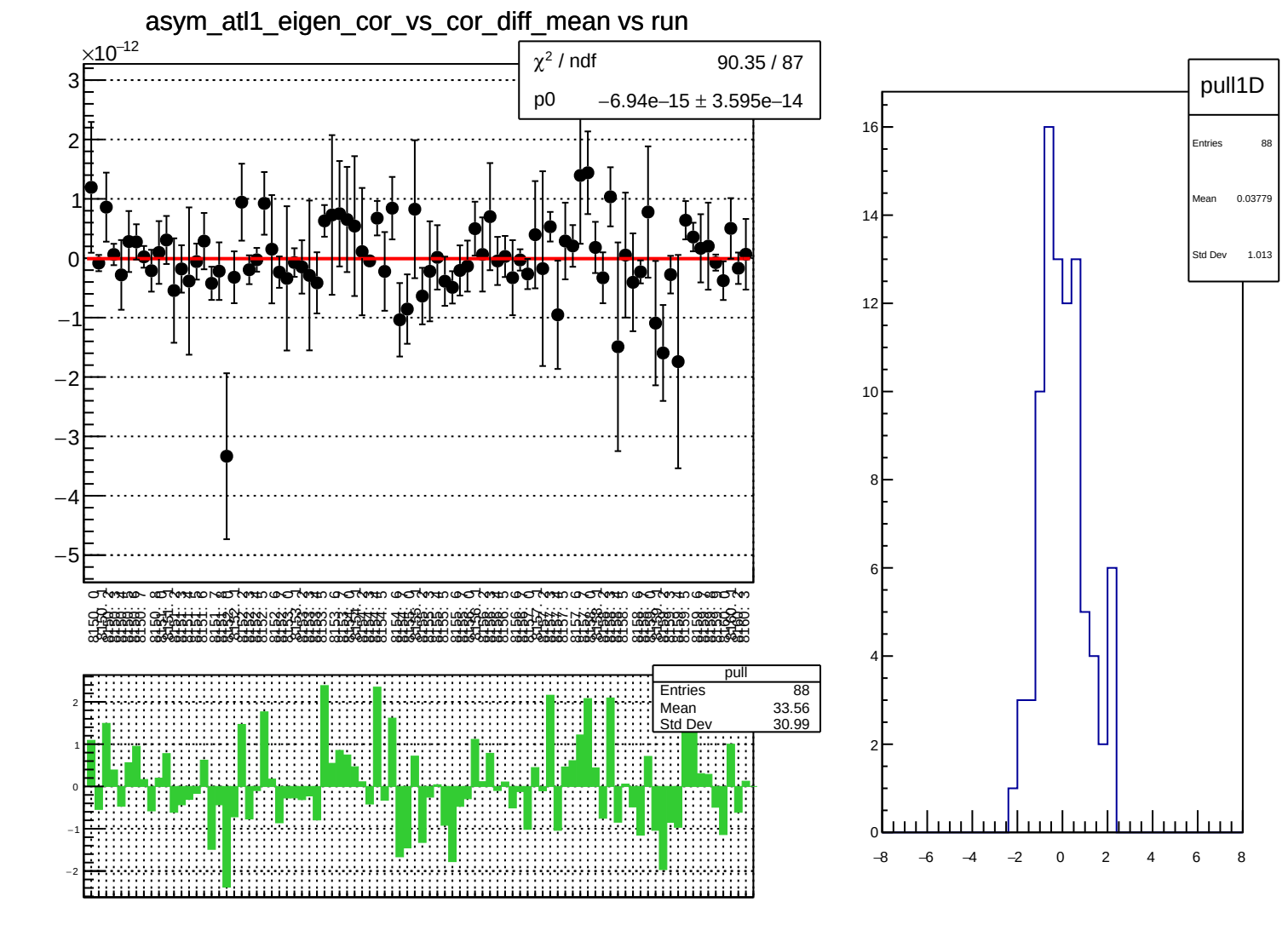

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 5990 / 87
p0 0.000702 ± 5.431e−07
0.85
0.8
0.75
0.7
0.65
0.6

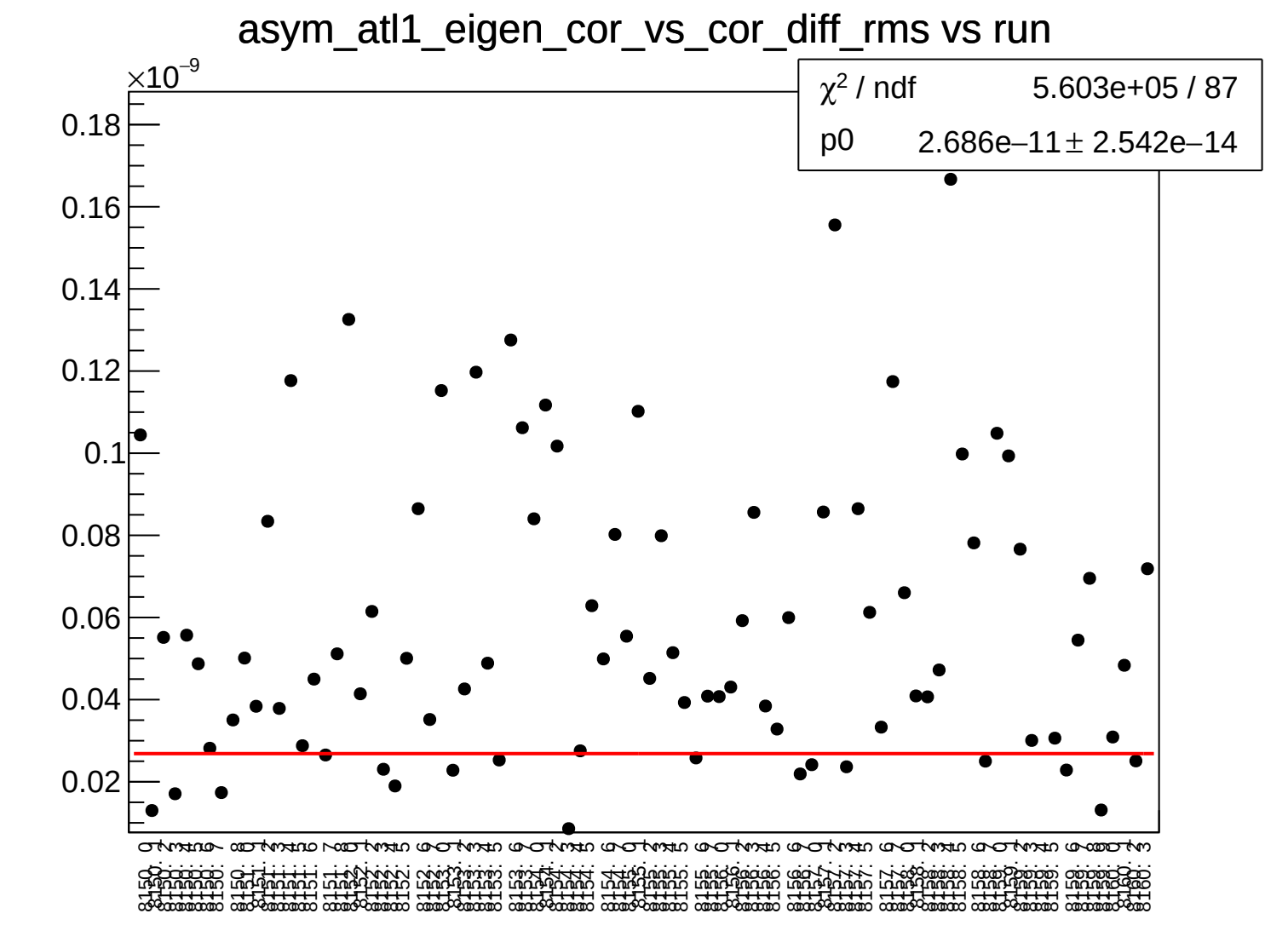

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.2 / 87
p0 0.08848 ± 0.05386
pull
Entries 88
Mean 57.92
Std Dev 0
pull1D
Entries 88
Mean 0.08096
Std Dev 1.101

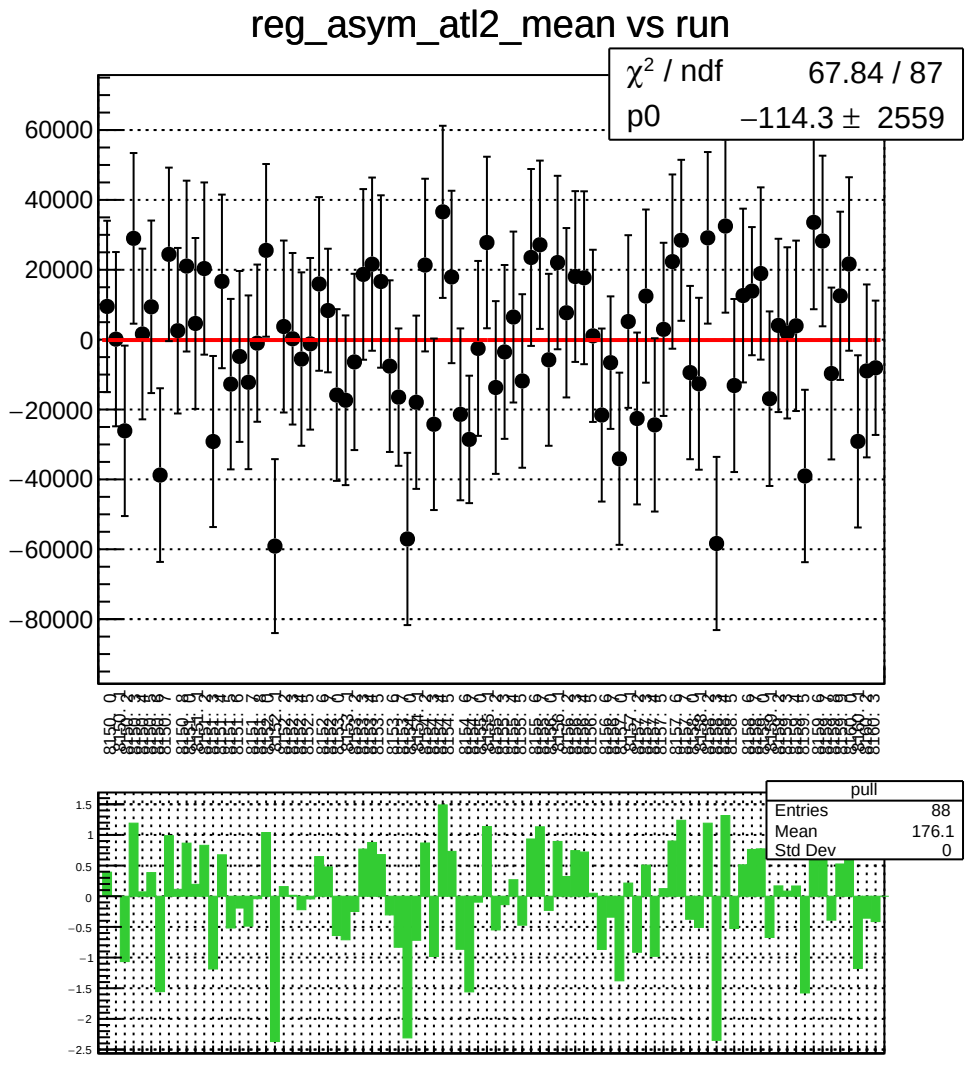

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.549e+05 / 87
p0 45.41 ± 0.03808
120
100
80
60
40
20

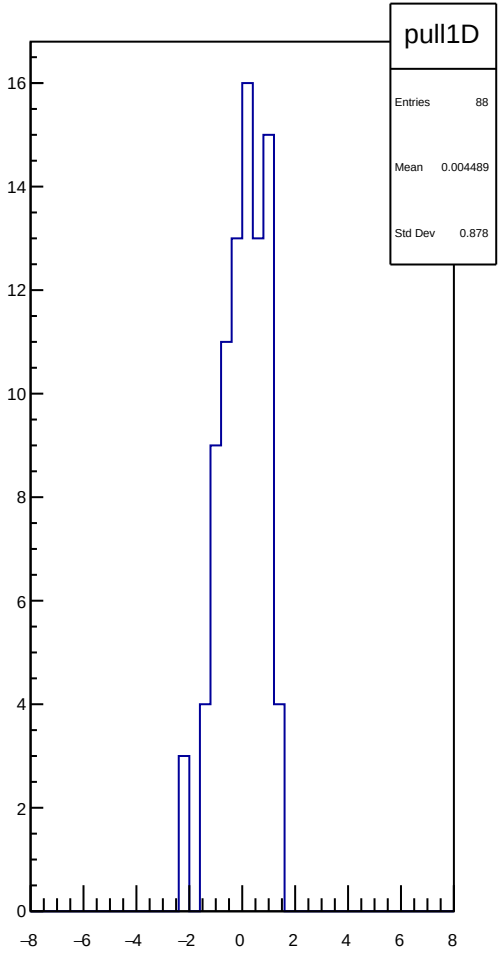

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.2 / 87
p0 0.08848 ± 0.05386
pull
Entries 88
Mean 57.92
Std Dev 0
pull1D
Entries 88
Mean 0.08096
Std Dev 1.101

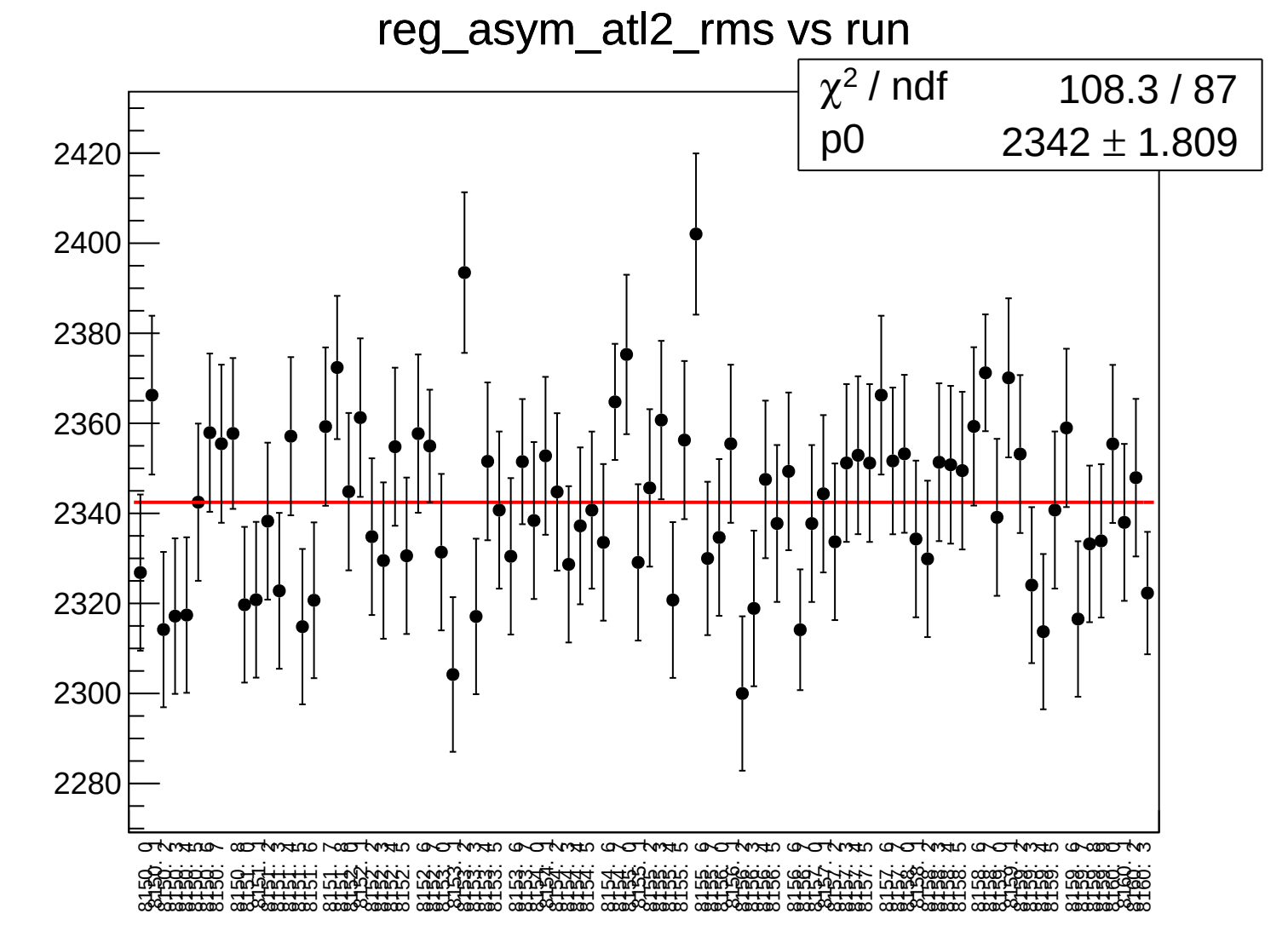

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.549e+05 / 87
p0 45.41 ± 0.03808
120
100
80
60
40
20

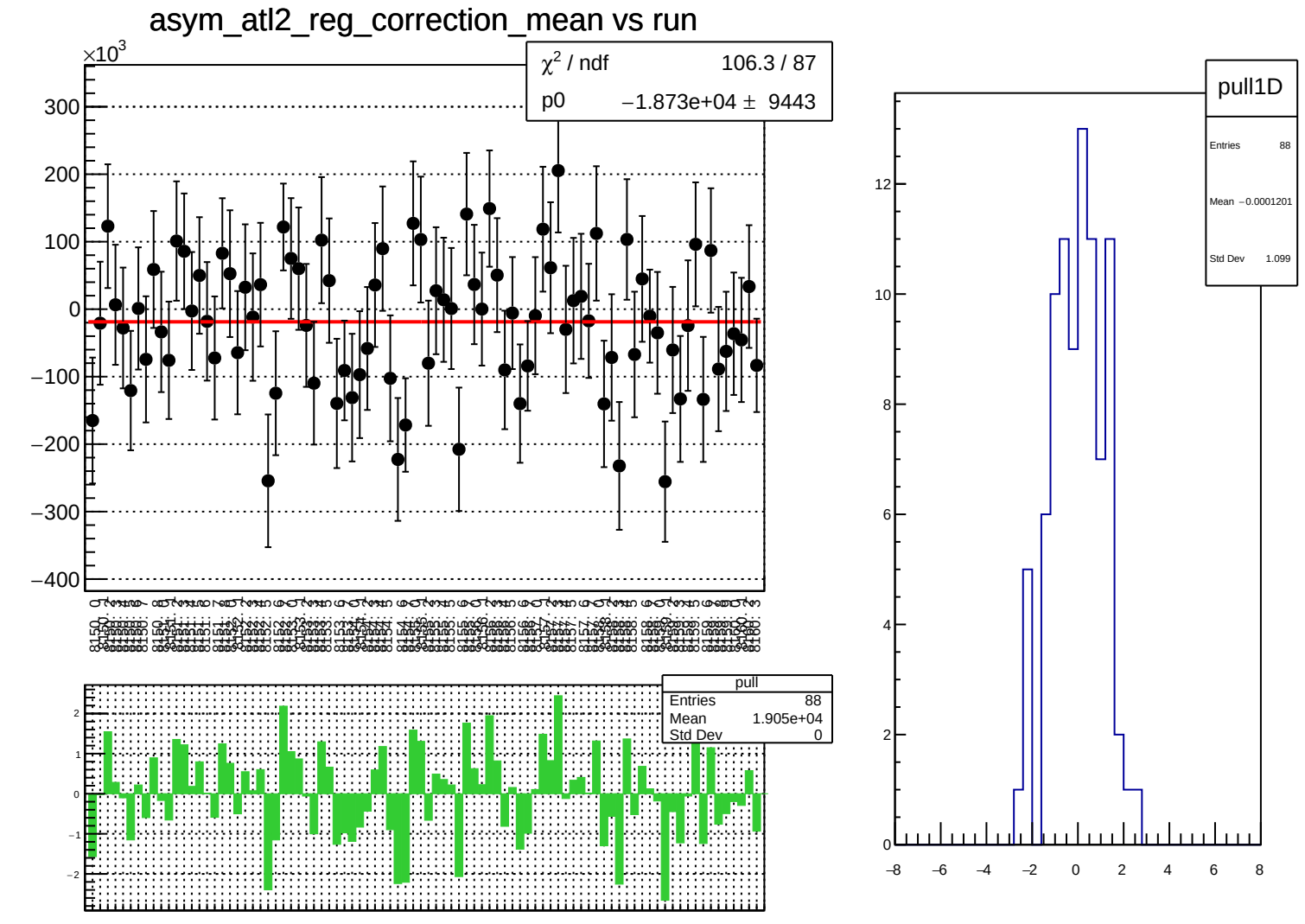

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.35 / 87
p0 −6.94e−15 ± 3.595e−14
pull
Entries 88
Mean 33.56
Std Dev 30.99
pull1D
Entries 88
Mean 0.03779
Std Dev 1.013

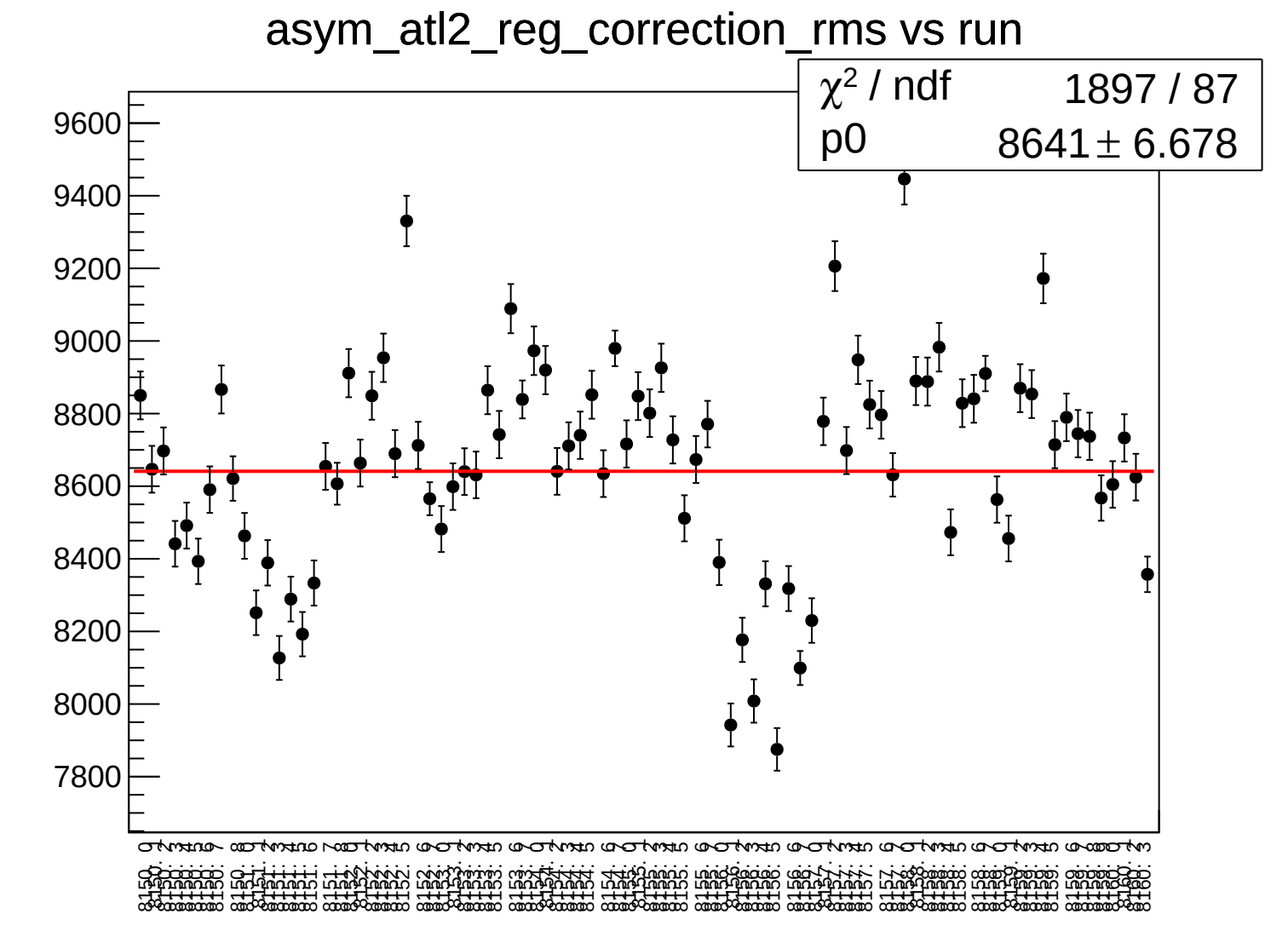

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.603e+05 / 87
p0 2.686e−11 ± 2.542e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

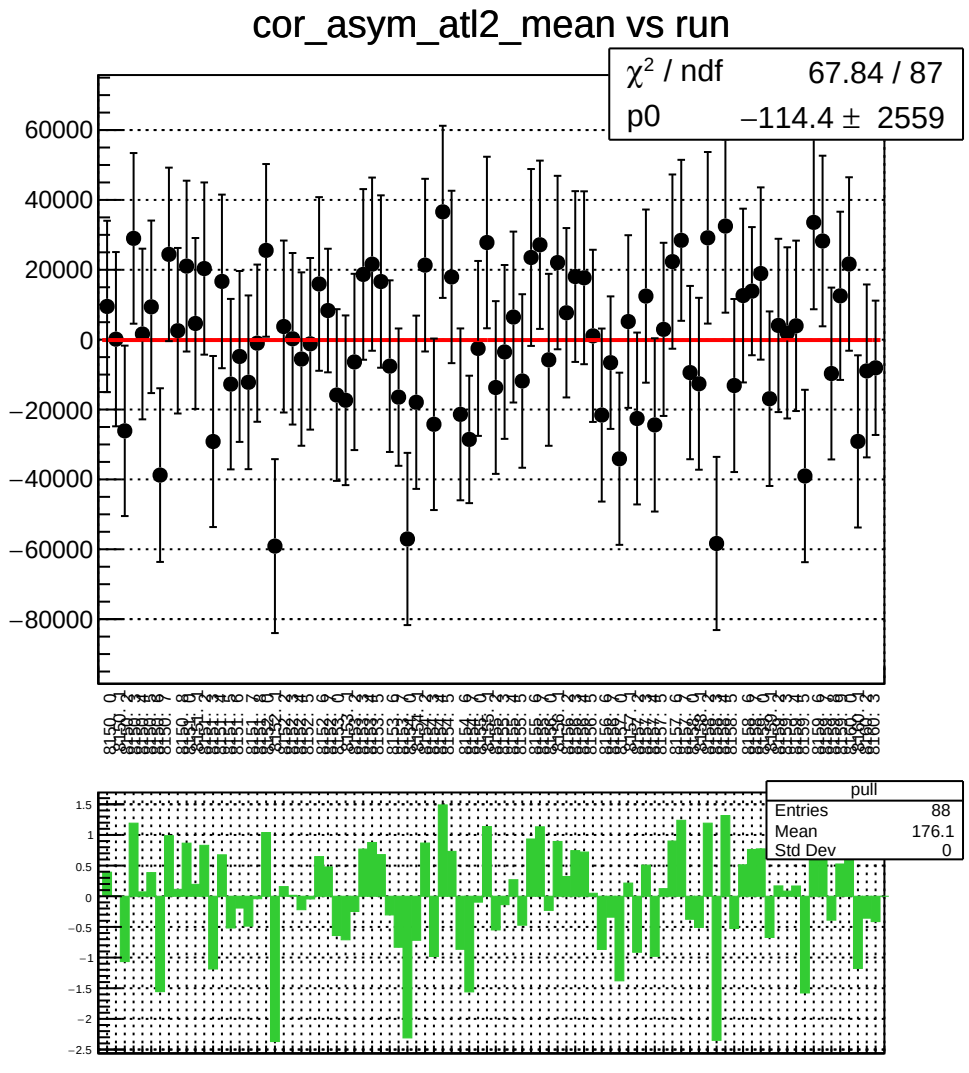

reg_asym_atl2_mean vs run
χ² / ndf 67.84 / 87
p0 −114.3 ± 2559
pull
Entries 88
Mean 176.1
Std Dev 0

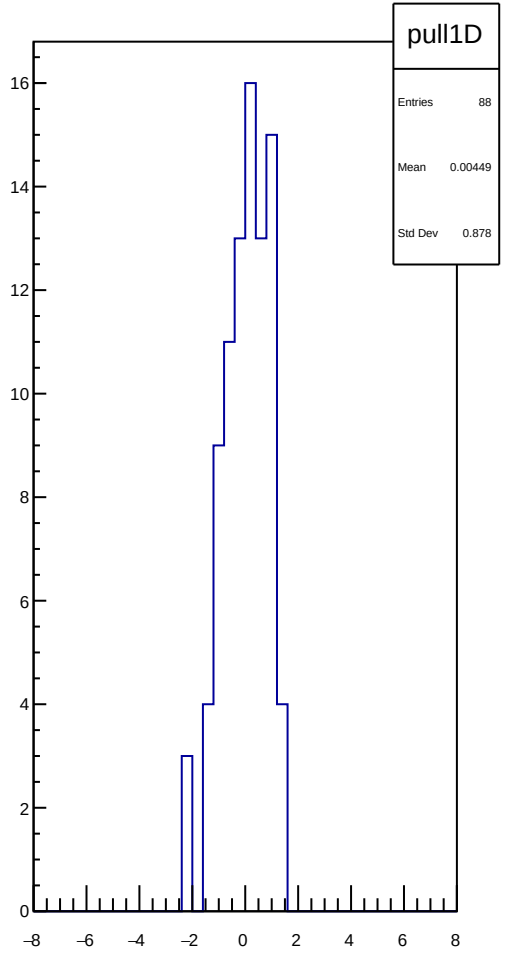

pull1D
Entries 88
Mean 0.004489
Std Dev 0.878

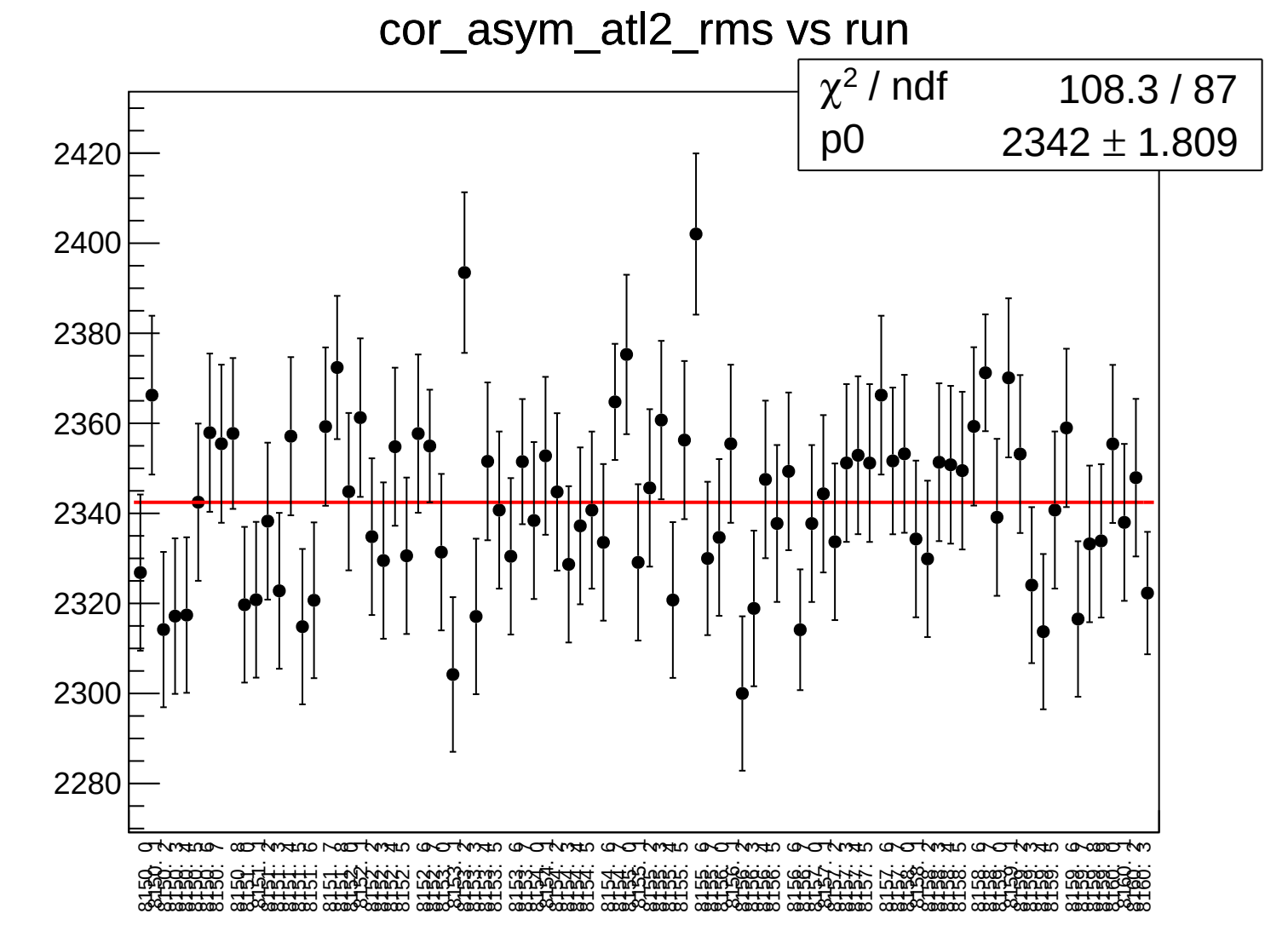

reg_asym_atl2_rms vs run
χ^2 / ndf 108.3 / 87
p0 2342 ± 1.809
2420
2400
2380
2360
2340
2320
2300
2280

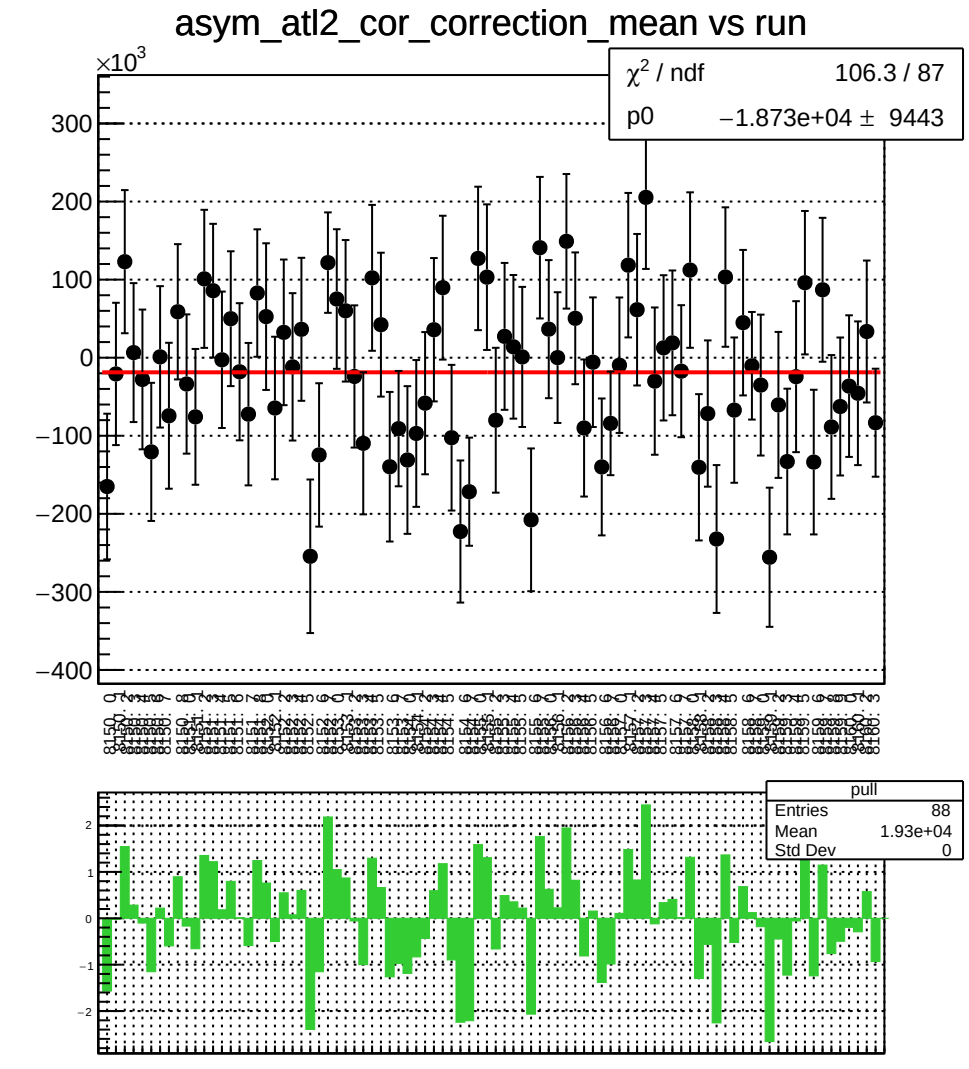

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 106.3 / 87
p0 −1.873e+04 ± 9443
pull
Entries 88
Mean 1.905e+04
Std Dev 0
pull1D
Entries 88
Mean −0.0001201
Std Dev 1.099

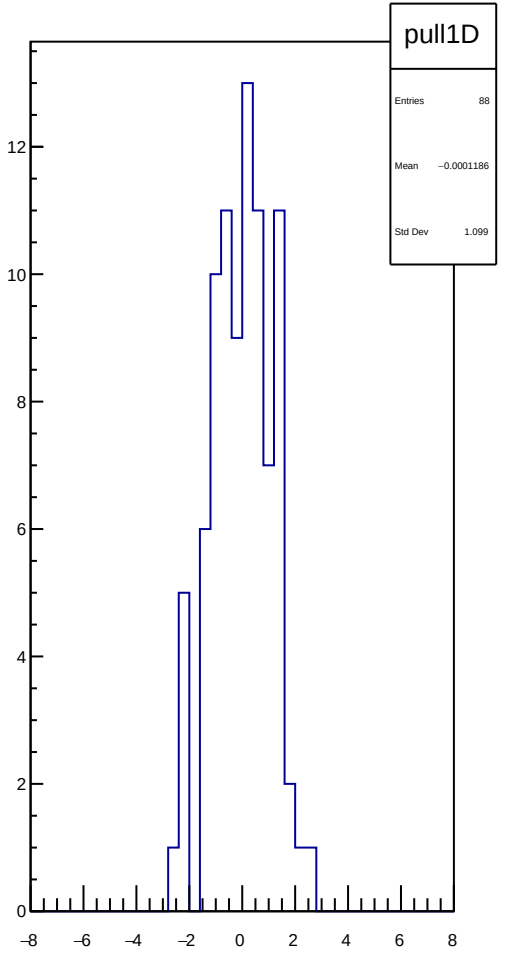

asym_atl2_reg_correction_rms vs run
χ² / ndf 1897 / 87
p0 8641 ± 6.678
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

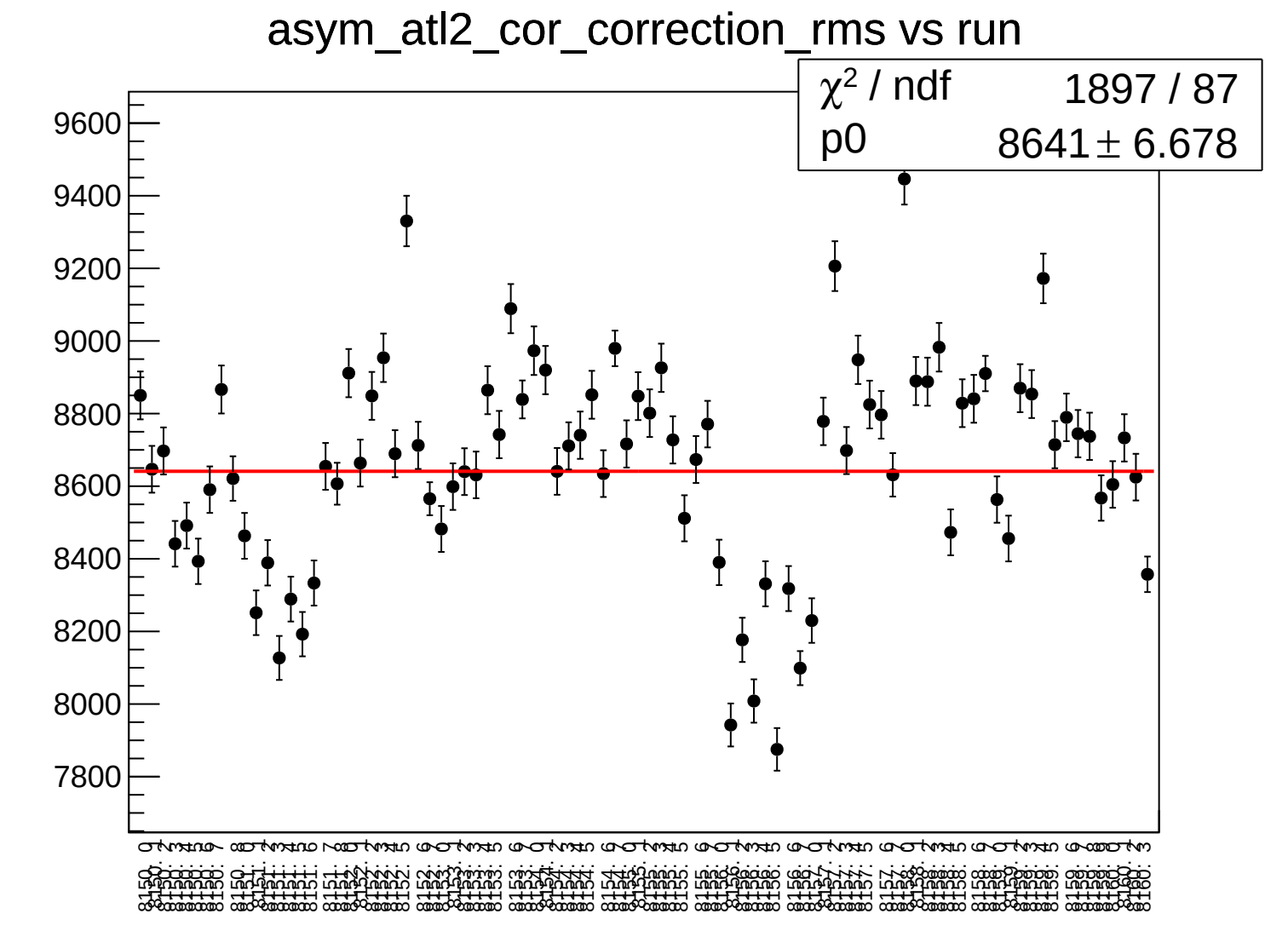

cor_asym_atl2_mean vs run
χ² / ndf 67.84 / 87
p0 −114.4 ± 2559
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 176.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

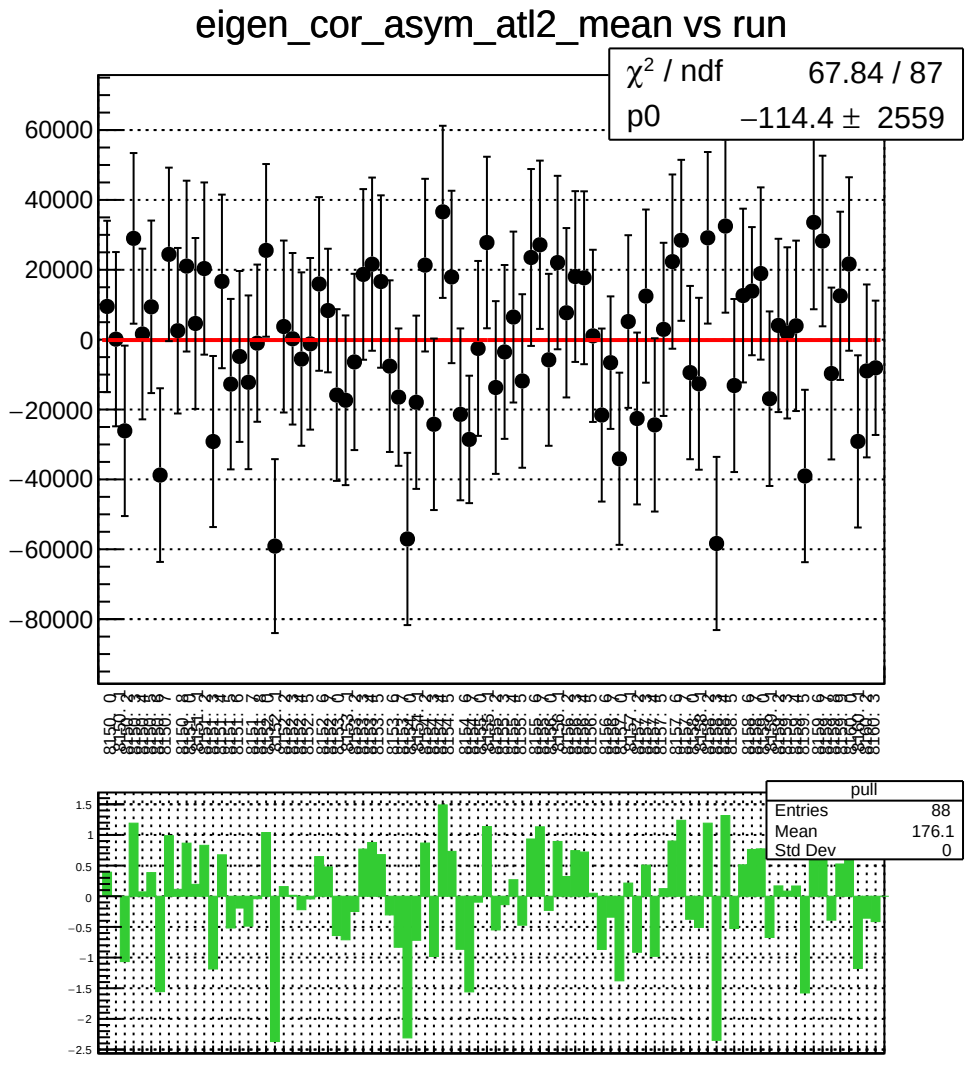

pull1D
Entries 88
Mean 0.00449
Std Dev 0.878
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

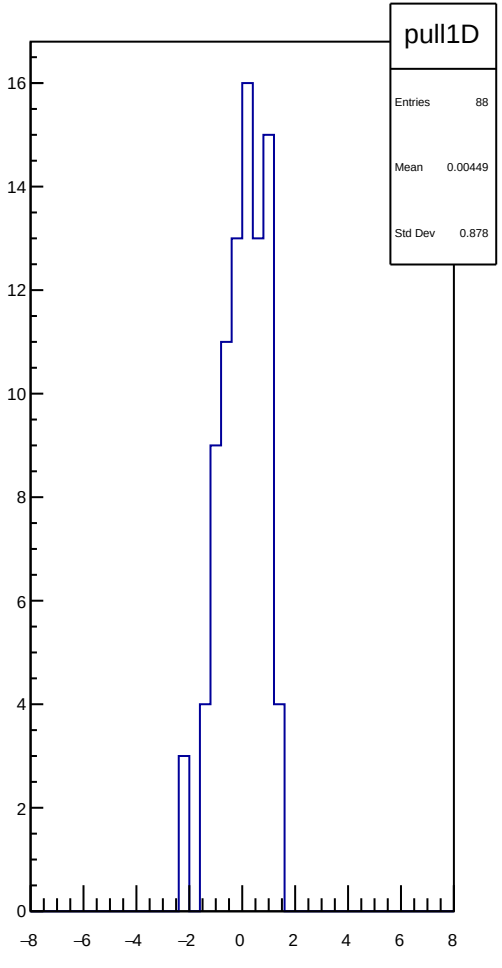

cor_asym_atl2_rms vs run
χ^2 / ndf 108.3 / 87
p0 2342 ± 1.809
2420
2400
2380
2360
2340
2320
2300
2280

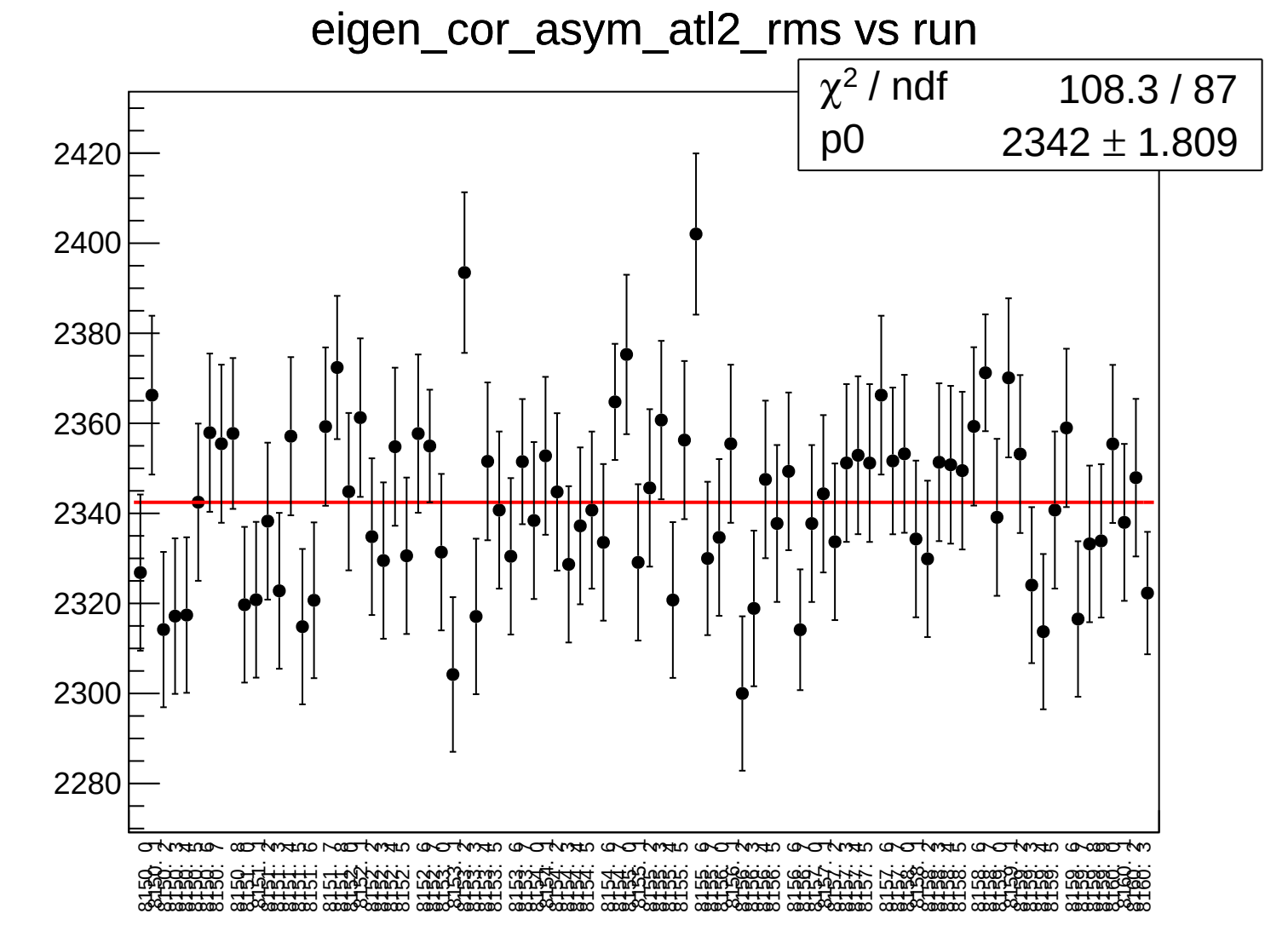

asym_atl2_cor_correction_mean vs run
χ² / ndf 106.3 / 87
p0 −1.873e+04 ± 9443
×10³
pull
Entries 88
Mean 1.93e+04
Std Dev 0

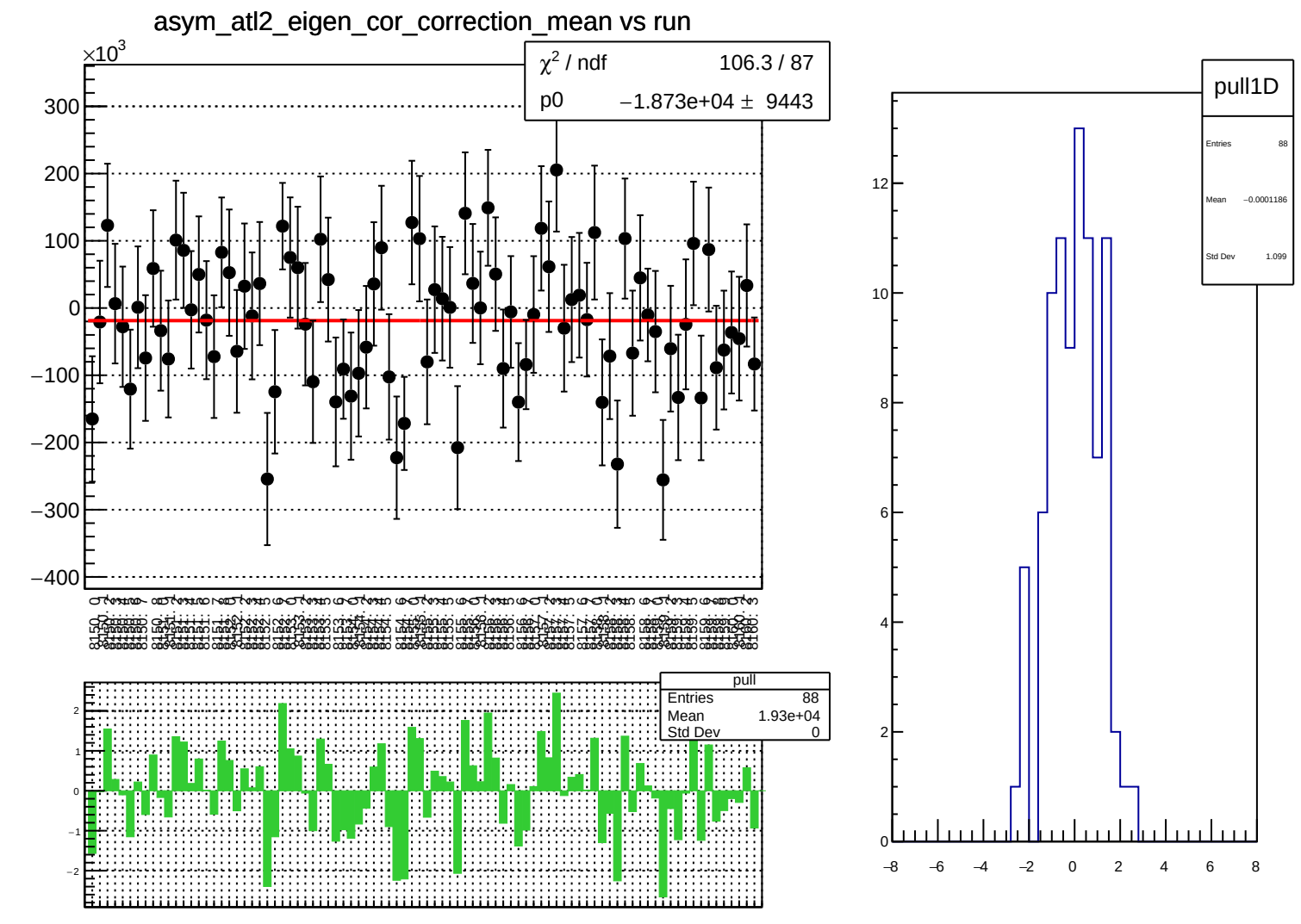

pull1D
Entries 88
Mean −0.0001186
Std Dev 1.099

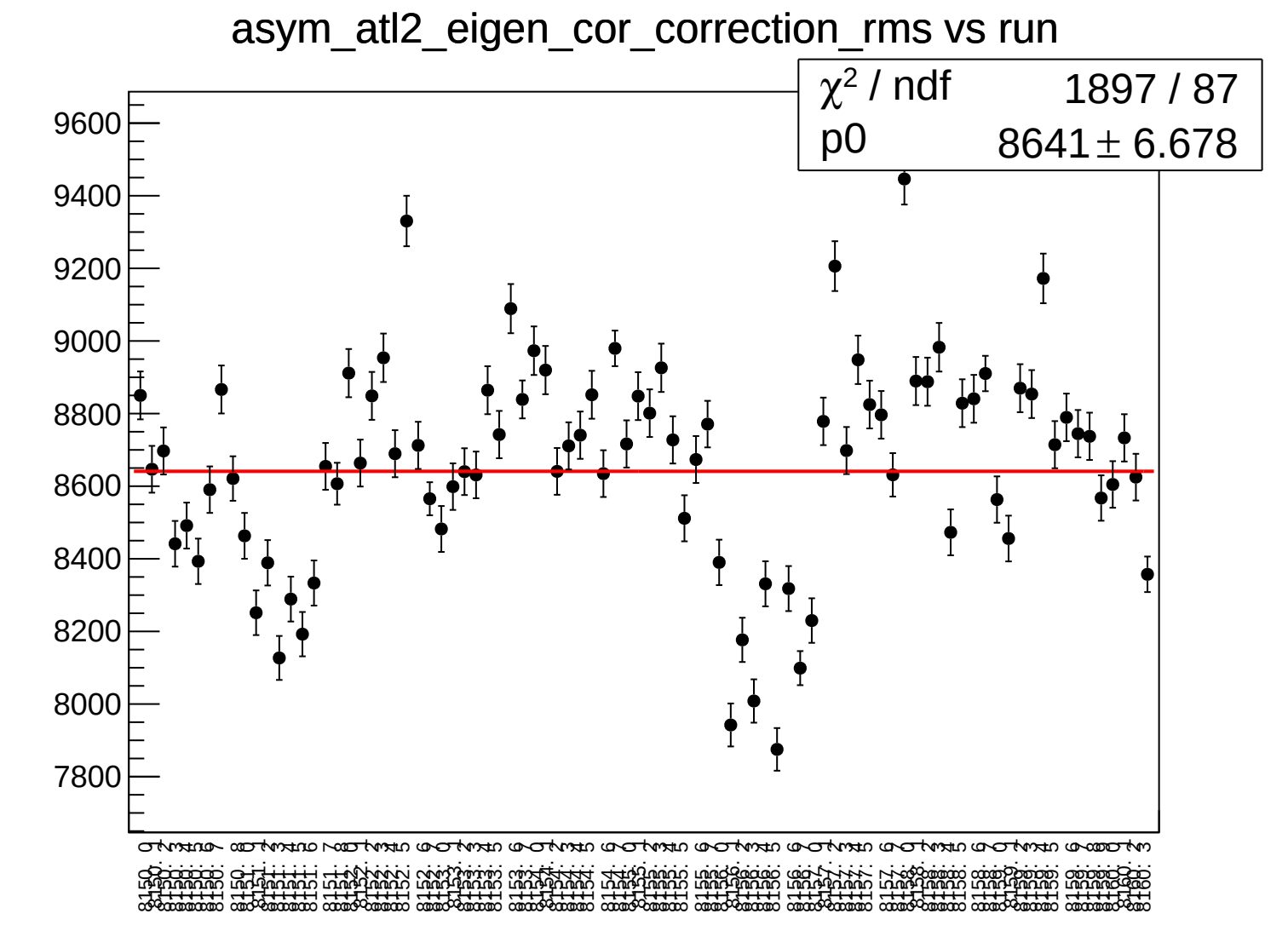

asym_atl2_cor_correction_rms vs run
χ² / ndf 1897 / 87
p0 8641 ± 6.678
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

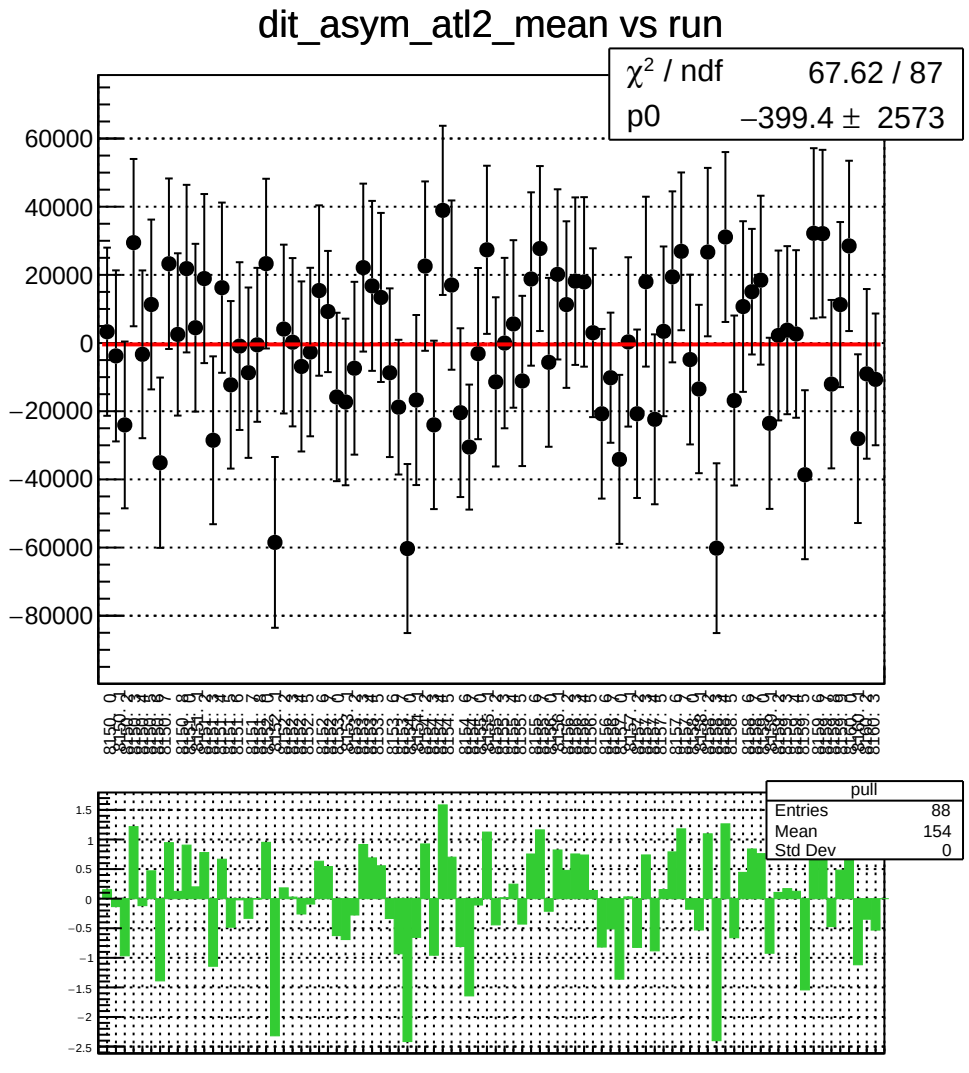

eigen_cor_asym_atl2_mean vs run
χ² / ndf 67.84 / 87
p0 −114.4 ± 2559
pull
Entries 88
Mean 176.1
Std Dev 0

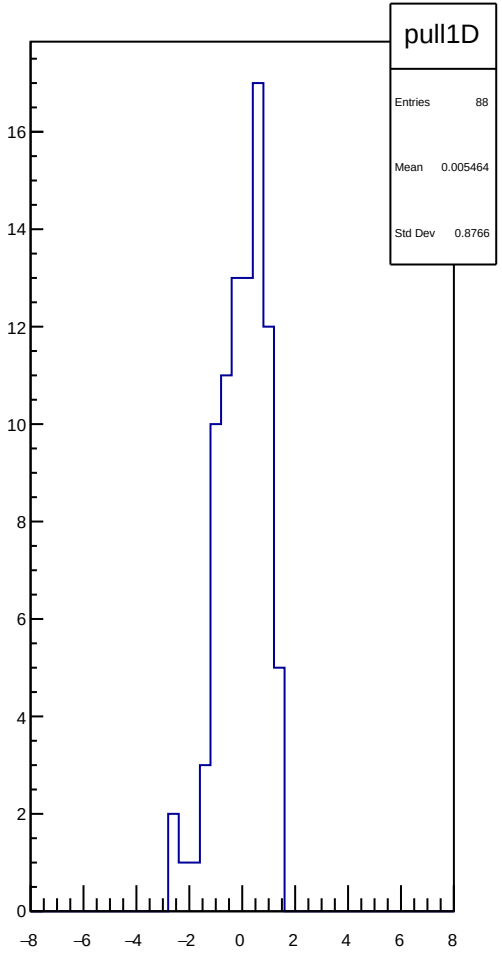

pull1D
Entries 88
Mean 0.00449
Std Dev 0.878

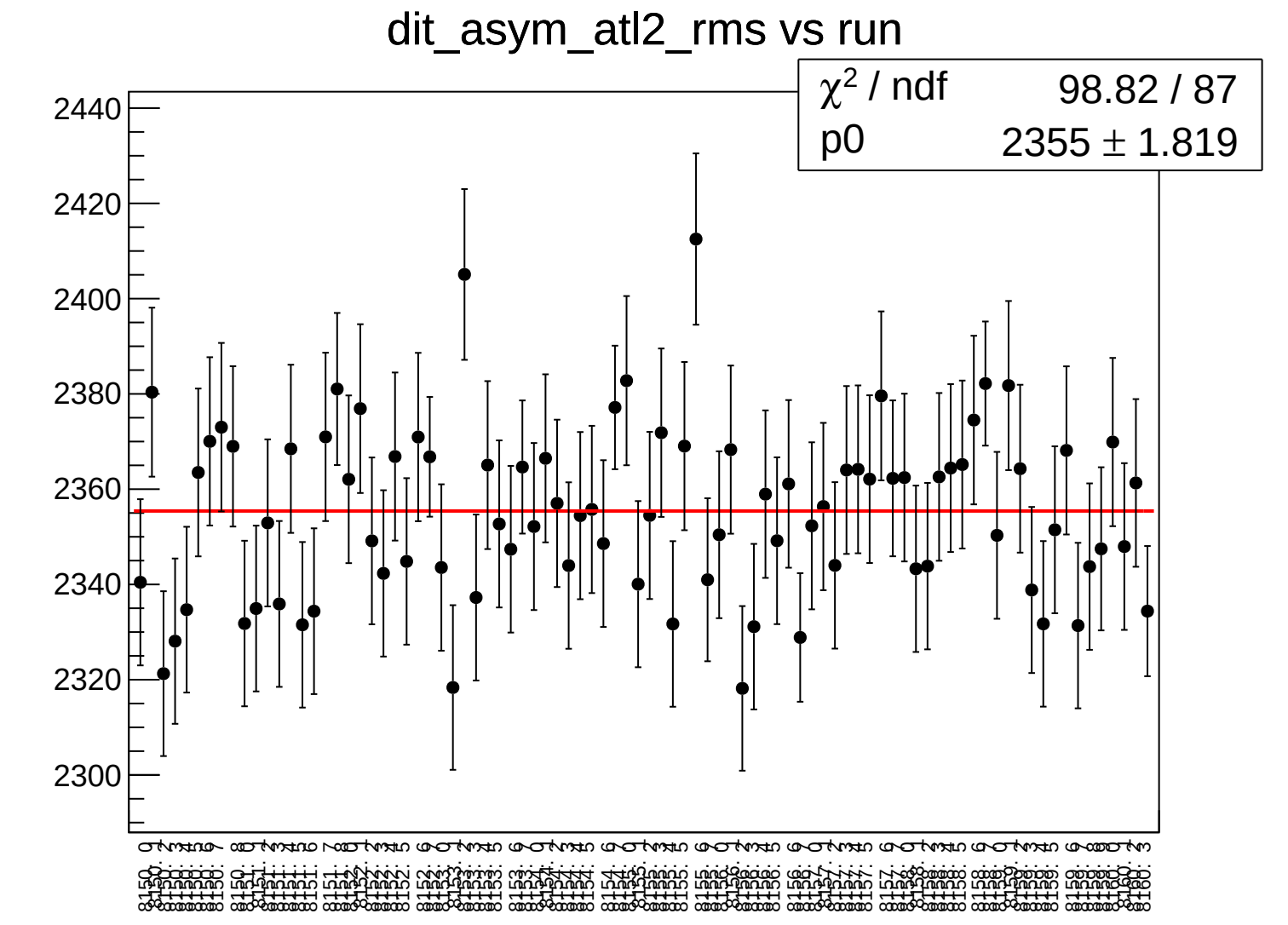

eigen_cor_asym_atl2_rms vs run
χ² / ndf 108.3 / 87
p0 2342 ± 1.809
2420
2400
2380
2360
2340
2320
2300
2280

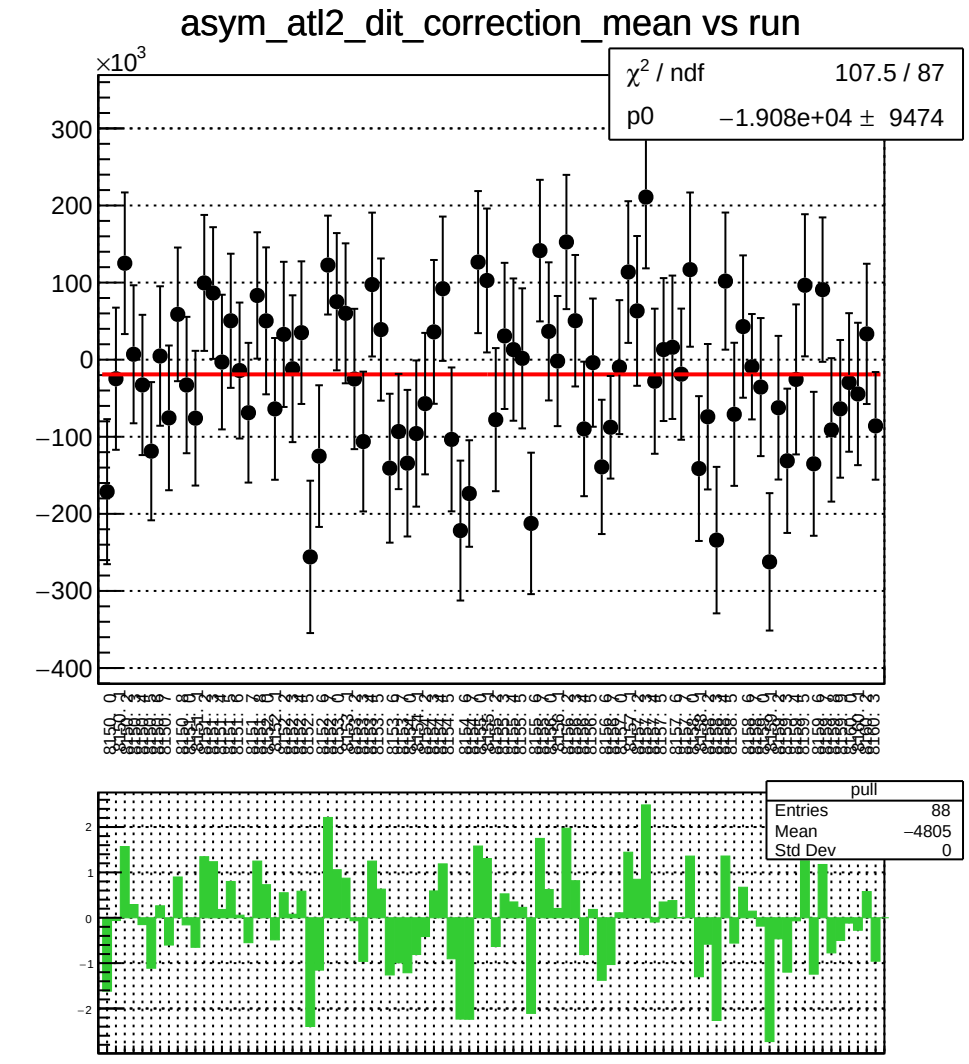

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.3 / 87
p0 −1.873e+04 ± 9443
pull
Entries 88
Mean 1.93e+04
Std Dev 0
pull1D
Entries 88
Mean −0.0001186
Std Dev 1.099

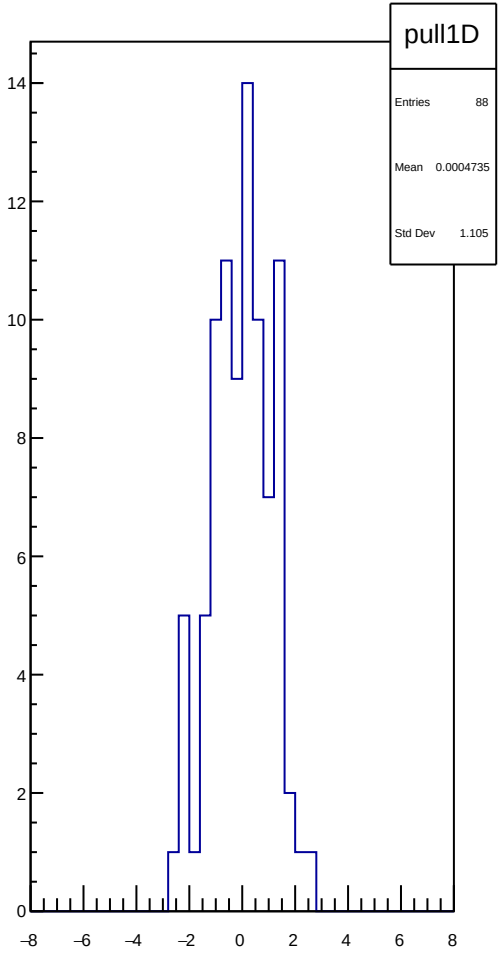

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1897 / 87
p0 8641 ± 6.678
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

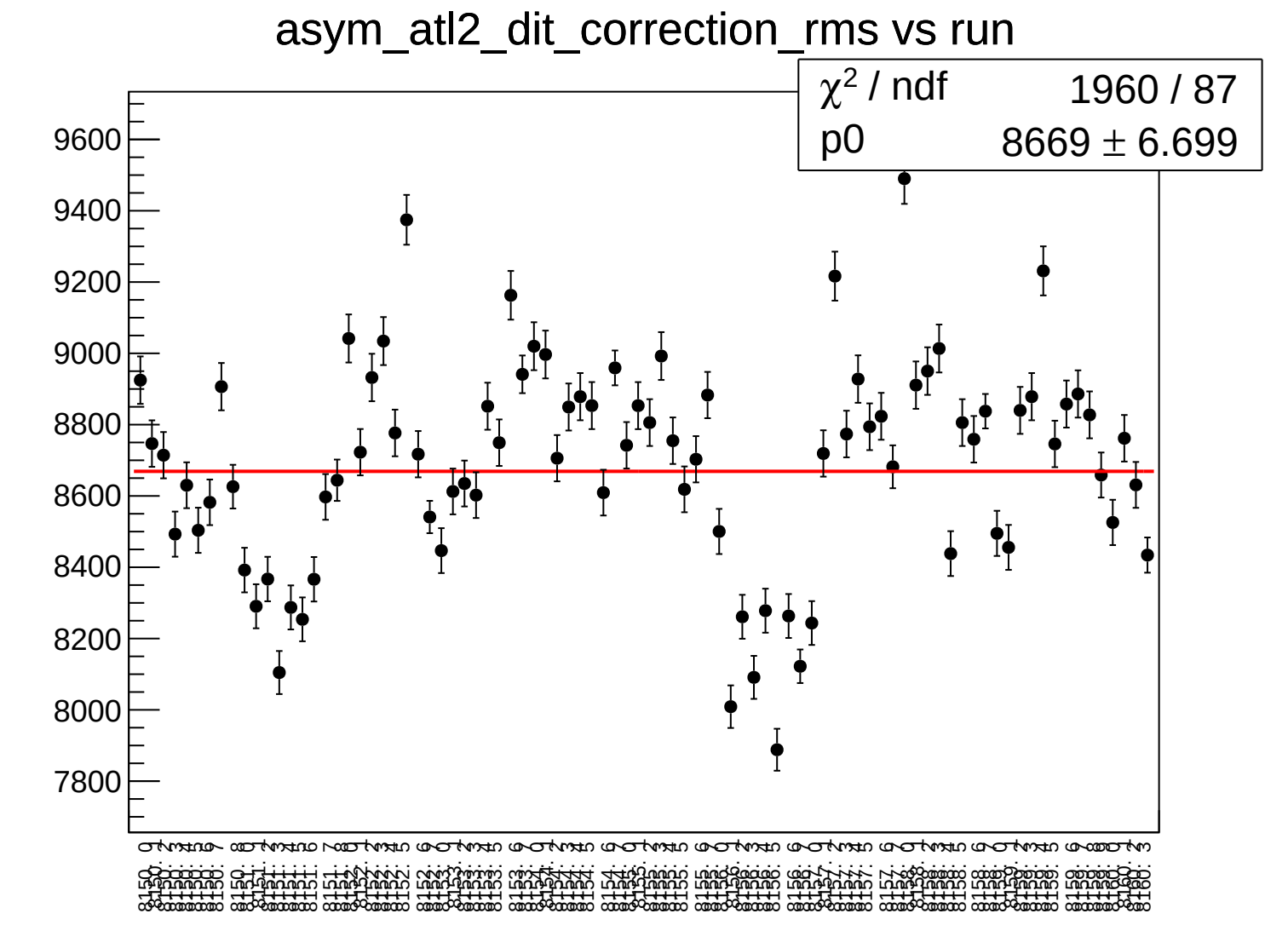

dit_asym_atl2_mean vs run
χ² / ndf 67.62 / 87
p0 −399.4 ± 2573
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 154
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

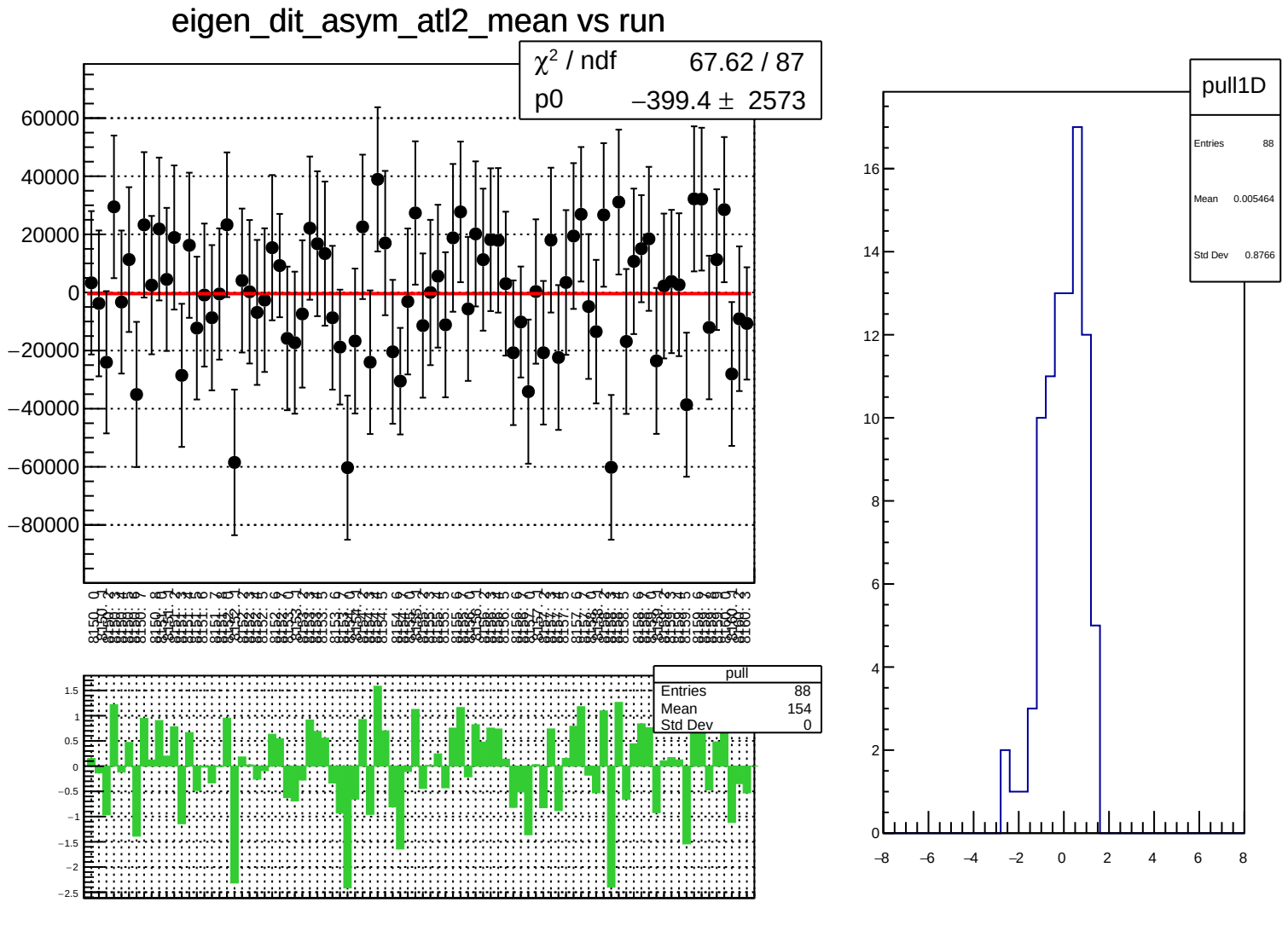

pull1D
Entries 88
Mean 0.005464
Std Dev 0.8766
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

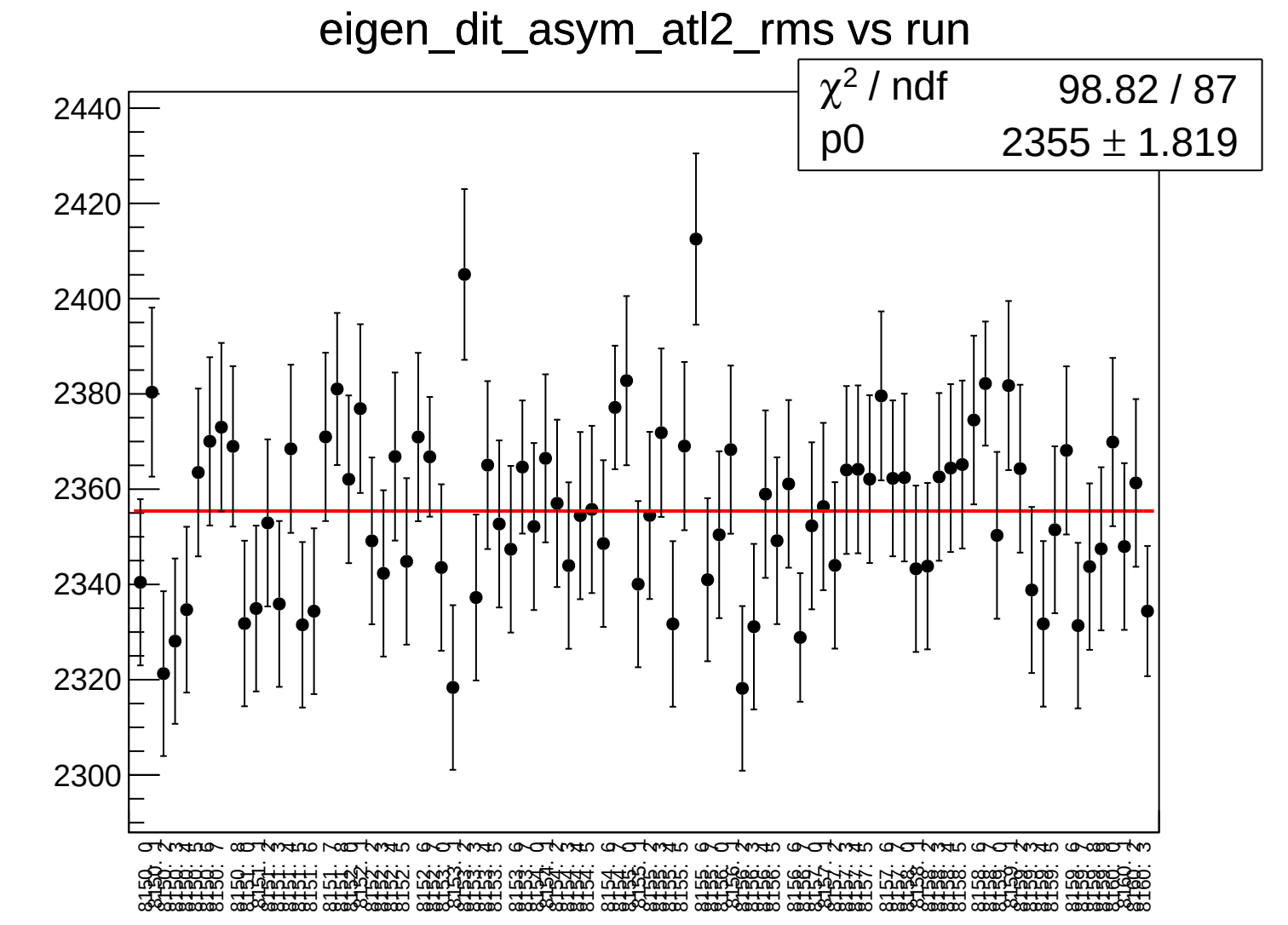

dit_asym_atl2_rms vs run
χ^2 / ndf 98.82 / 87
p0 2355 ± 1.819
2440
2420
2400
2380
2360
2340
2320
2300

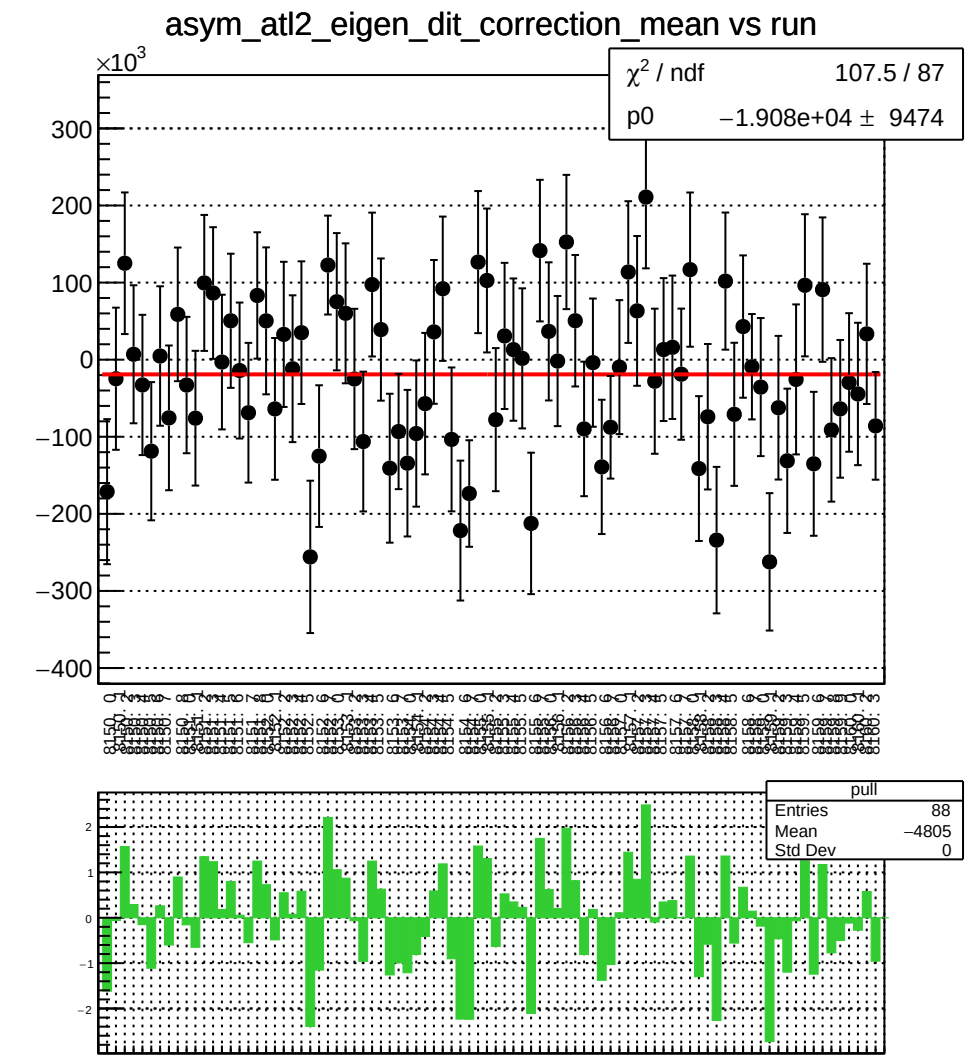

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 107.5 / 87
p0 −1.908e+04 ± 9474
pull
Entries 88
Mean −4805
Std Dev 0

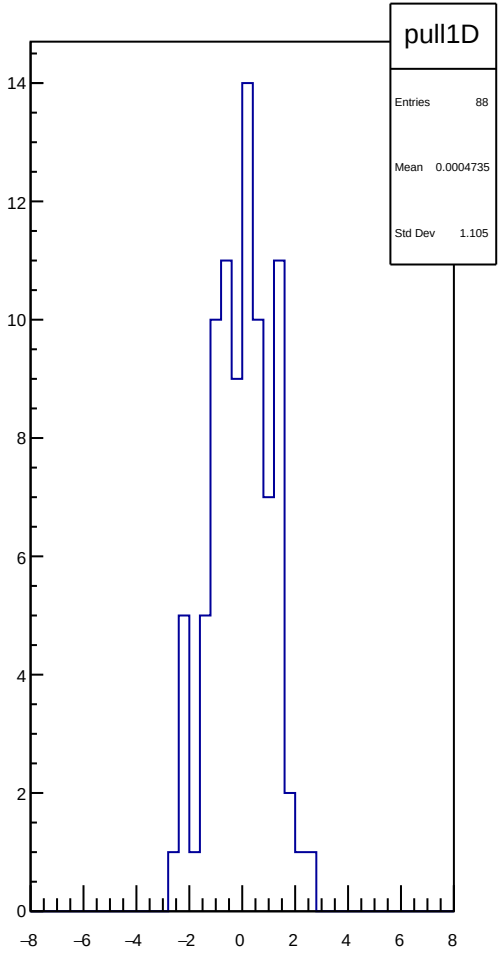

pull1D
Entries 88
Mean 0.0004735
Std Dev 1.105

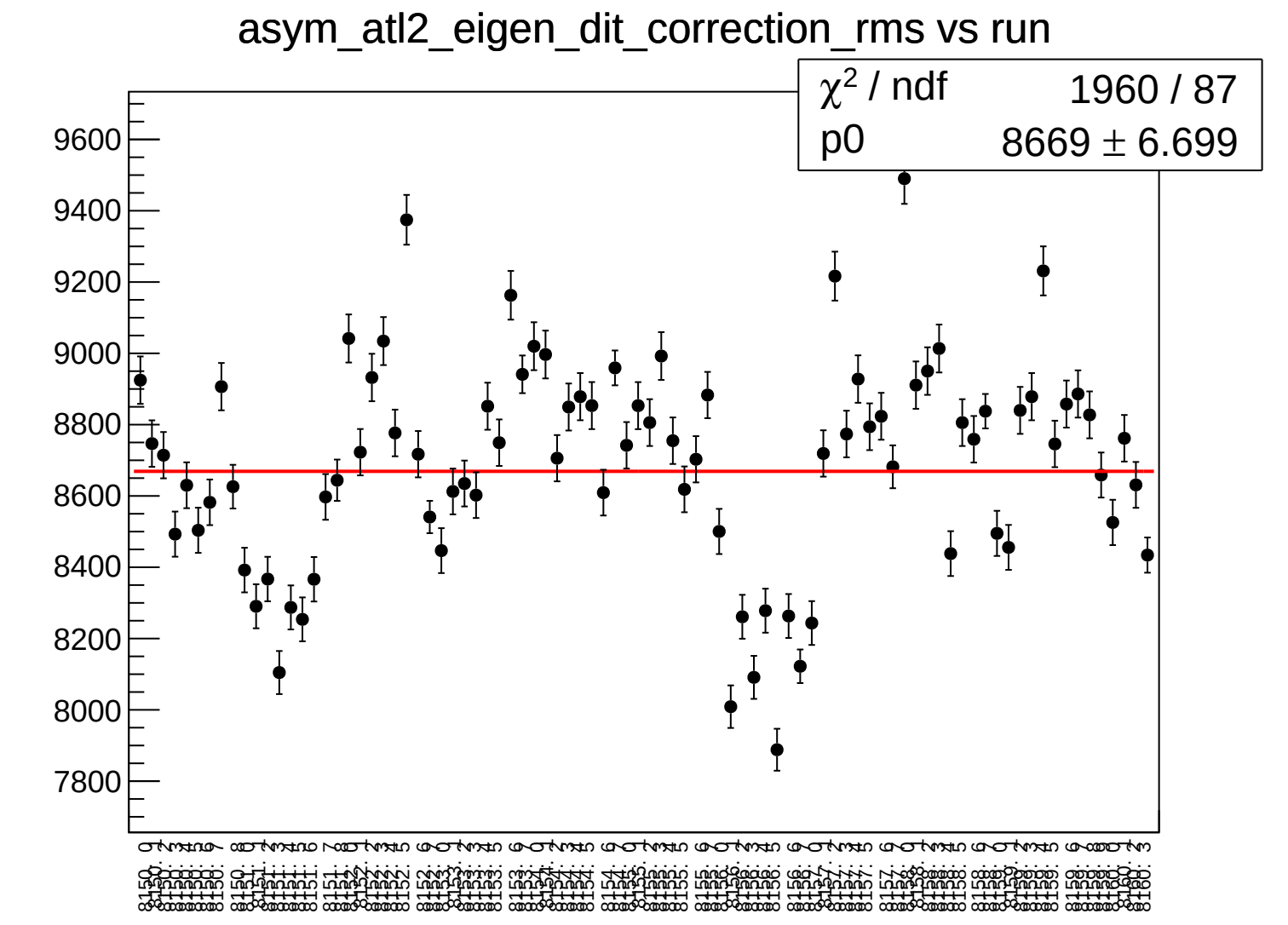

asym_atl2_dit_correction_rms vs run
χ² / ndf 1960 / 87
p0 8669 ± 6.699
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

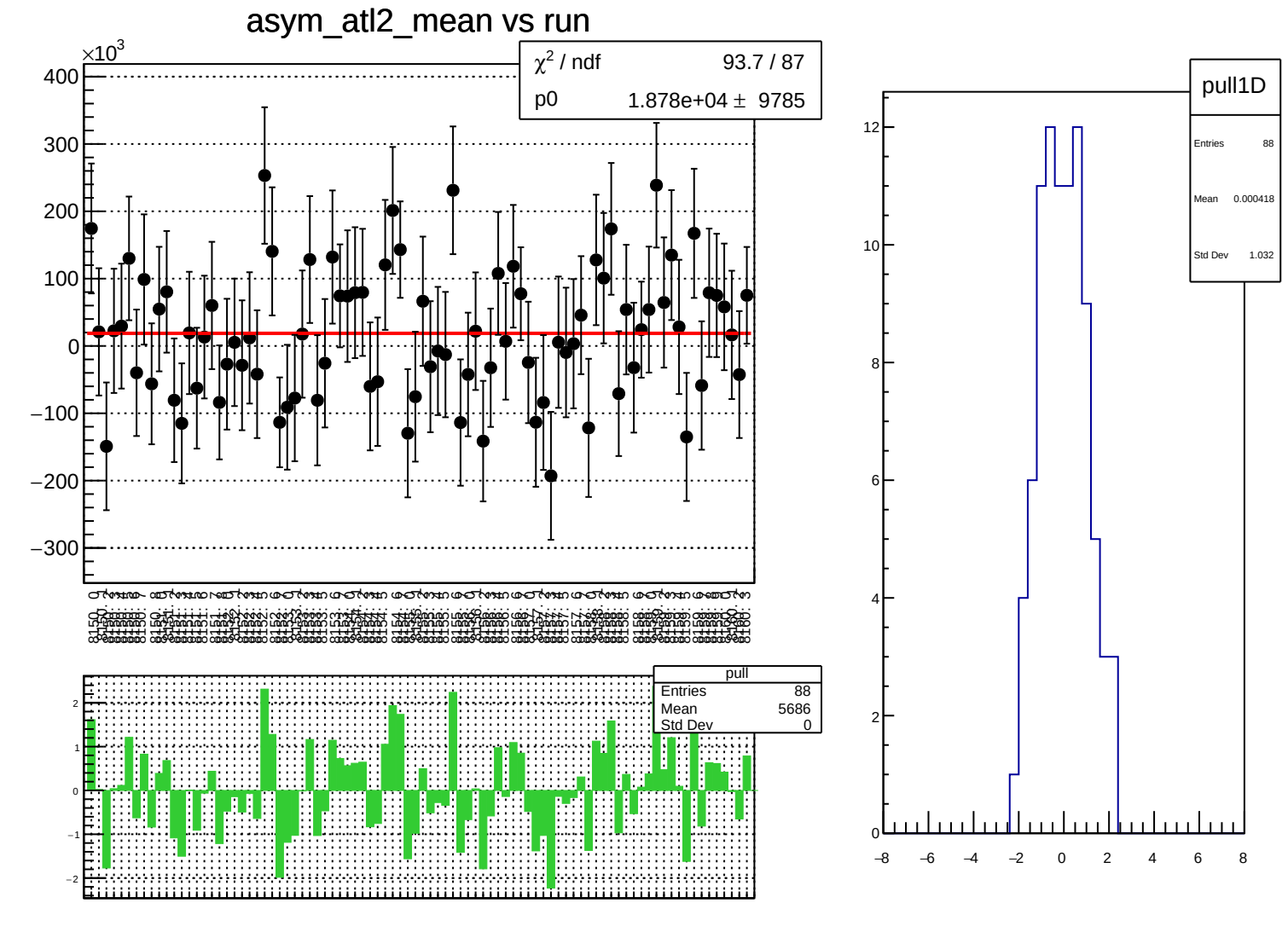

eigen_dit_asym_atl2_mean vs run
χ² / ndf 67.62 / 87
p0 −399.4 ± 2573
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 154
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean 0.005464
Std Dev 0.8766
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

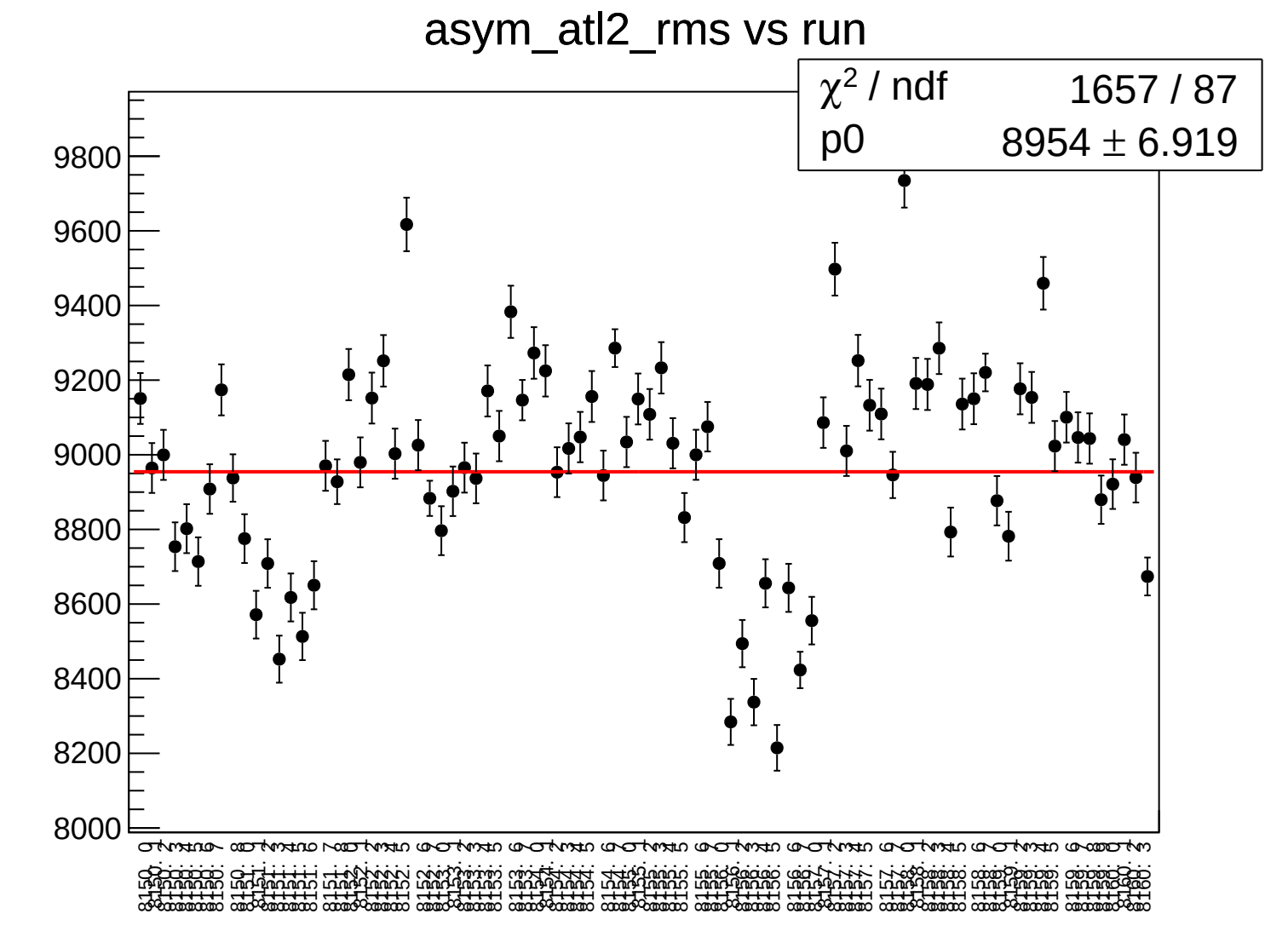

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 98.82 / 87
p0 2355 ± 1.819
2440
2420
2400
2380
2360
2340
2320
2300

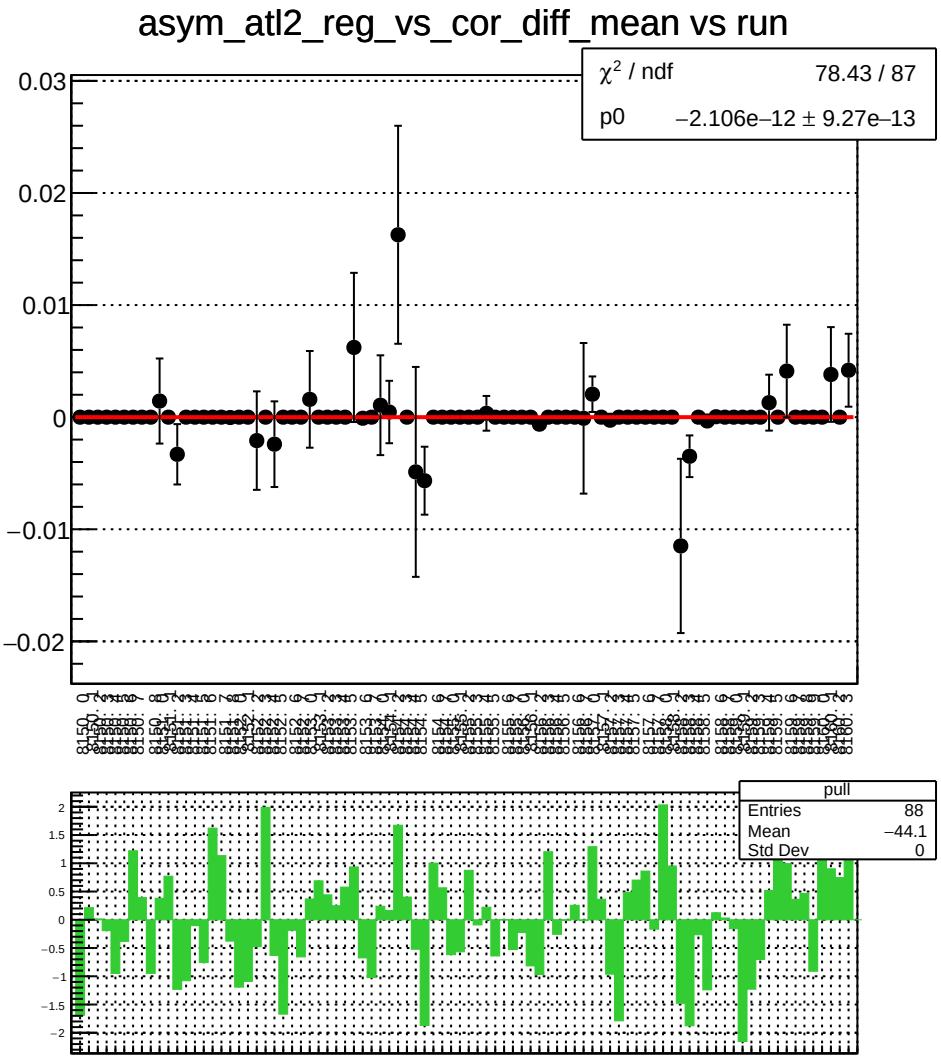

asym_atl2_eigen_dit_correction_mean vs run
χ² / ndf 107.5 / 87
p0 −1.908e+04 ± 9474
×10³
pull
Entries 88
Mean −4805
Std Dev 0

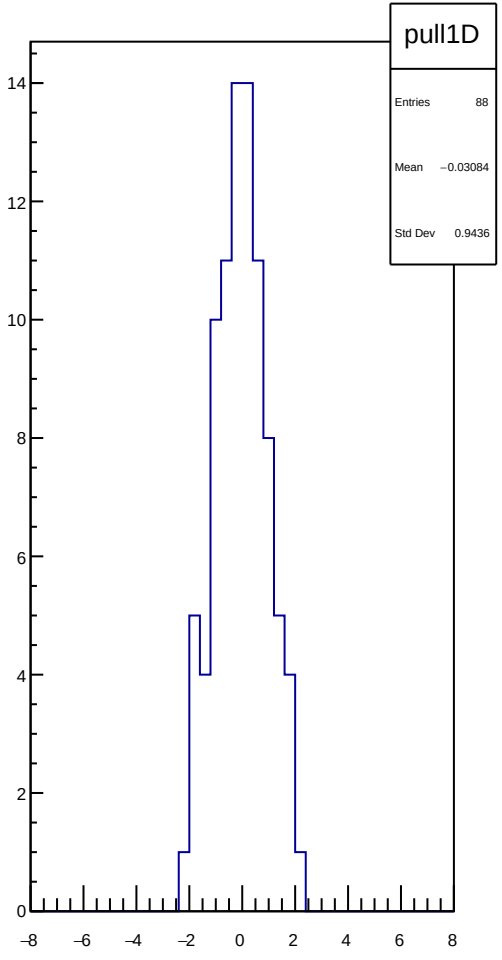

pull1D
Entries 88
Mean 0.0004735
Std Dev 1.105

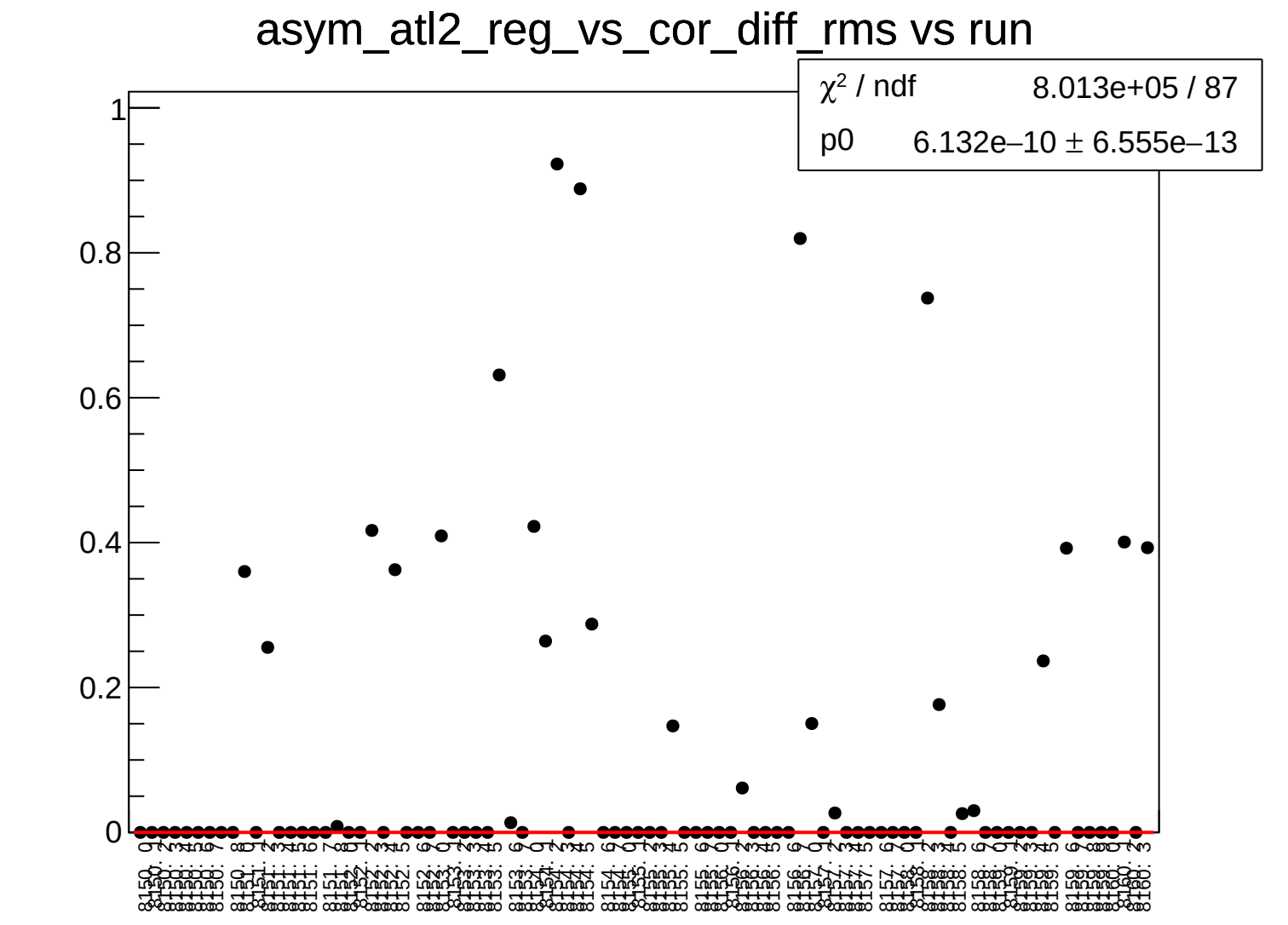

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 1960 / 87
p0 8669 ± 6.699
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

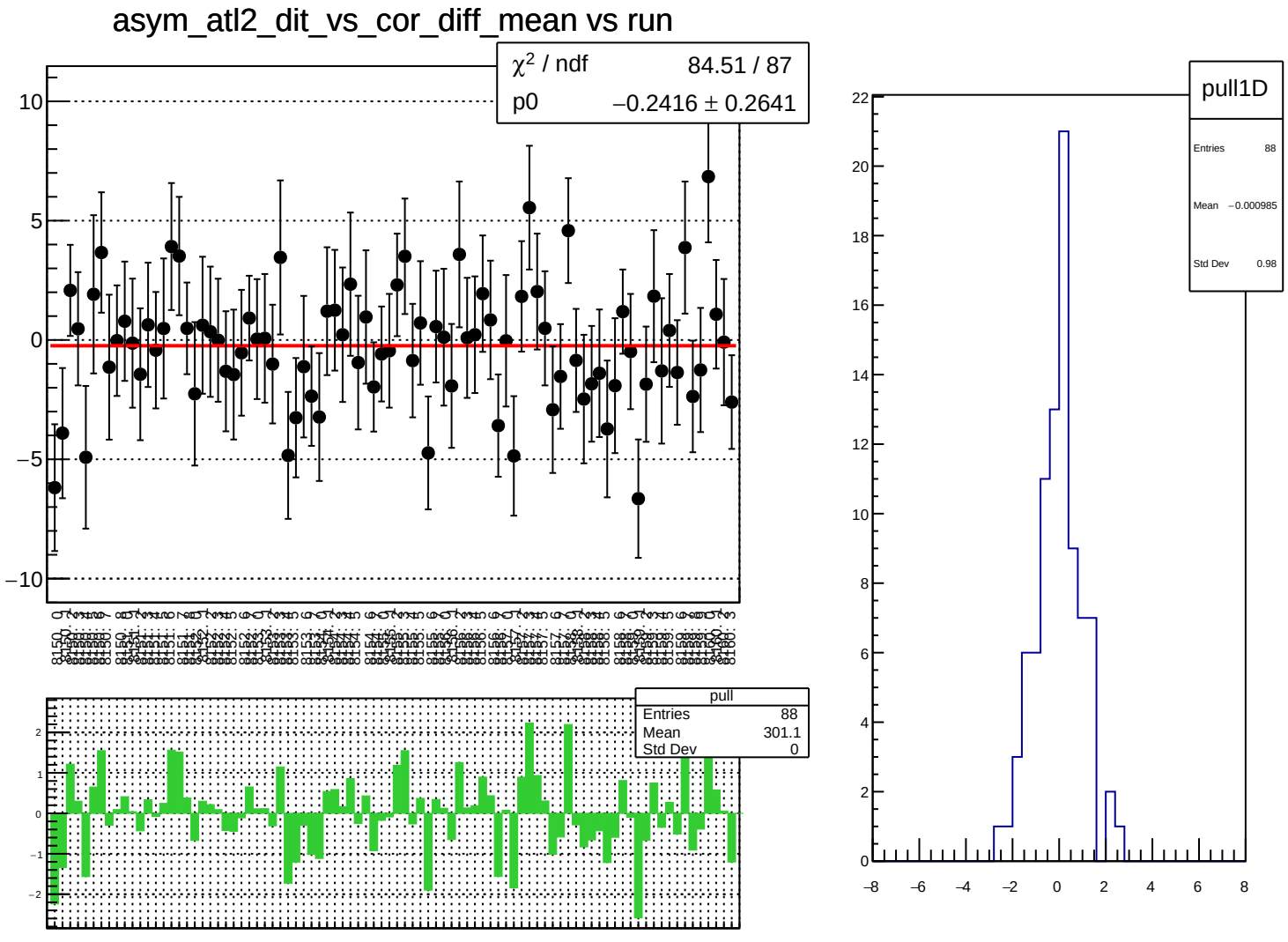

asym_atl2_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
χ² / ndf 93.7 / 87
p0 1.878e+04 ± 9785
pull
Entries 88
Mean 5686
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.000418
Std Dev 1.032
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

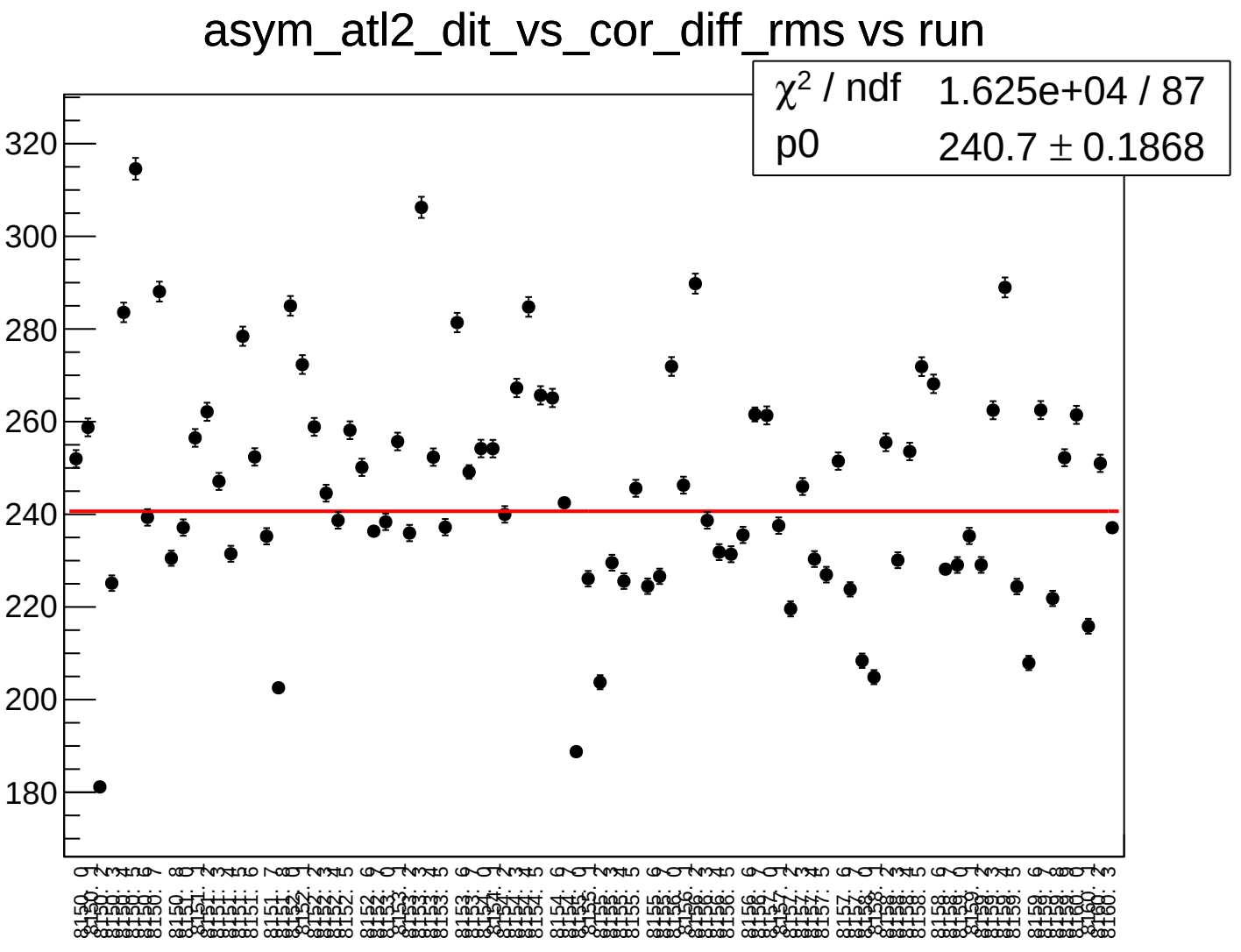

asym_atl2_rms vs run
χ² / ndf 1657 / 87
p0 8954 ± 6.919
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000

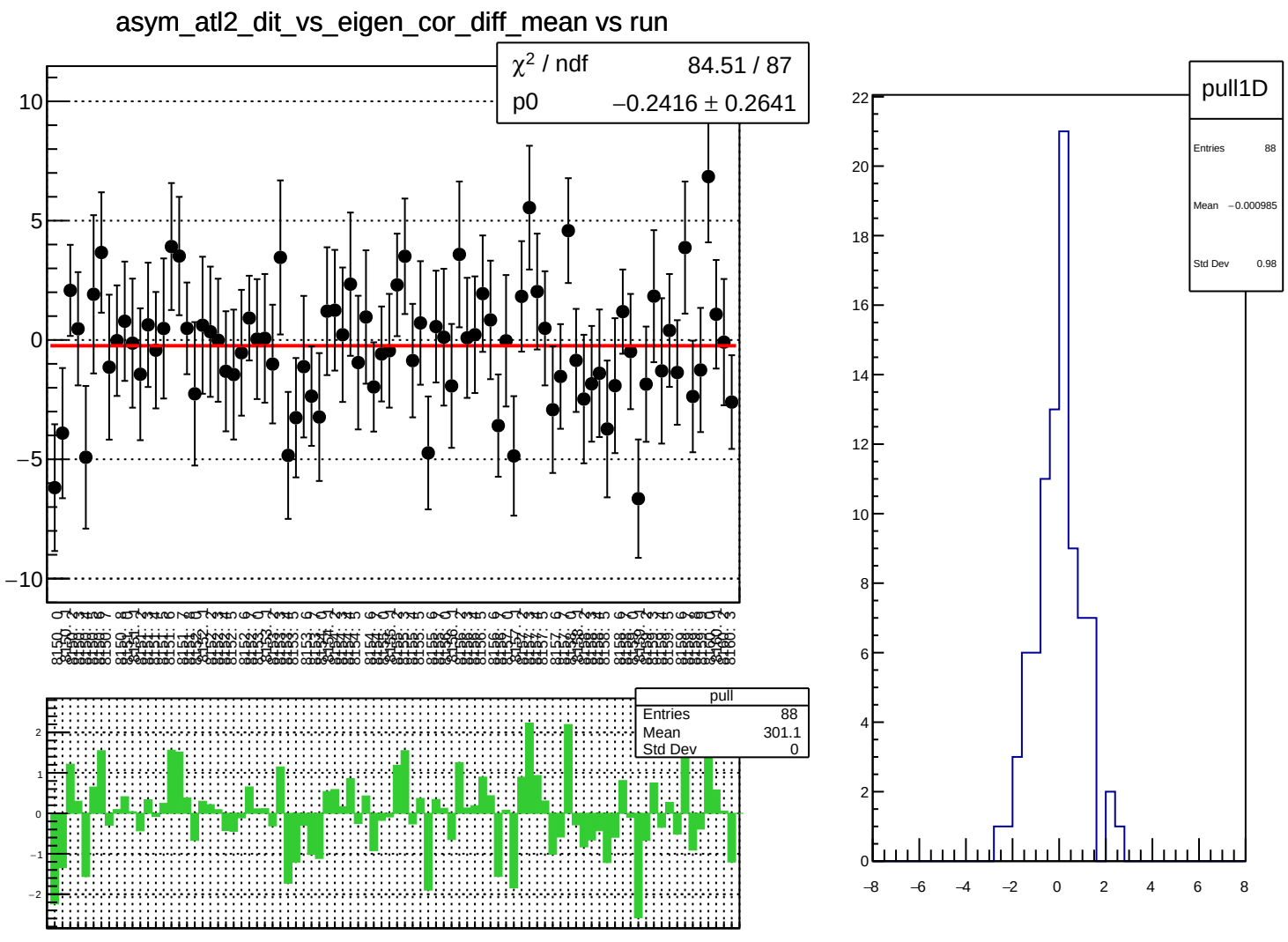

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 78.43 / 87
p0 −2.106e−12 ± 9.27e−13
pull
Entries 88
Mean −44.1
Std Dev 0

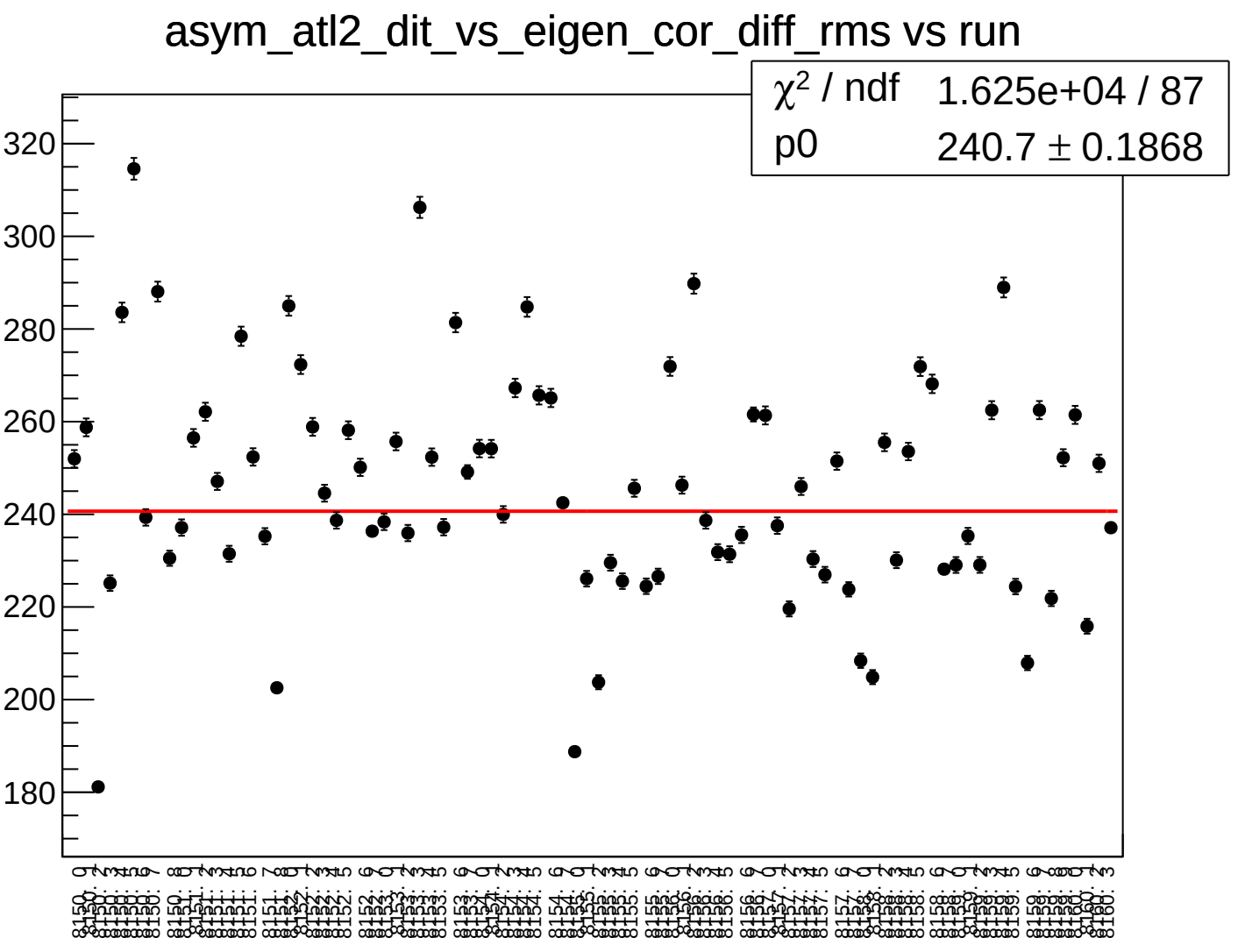

pull1D
Entries 88
Mean −0.03084
Std Dev 0.9436

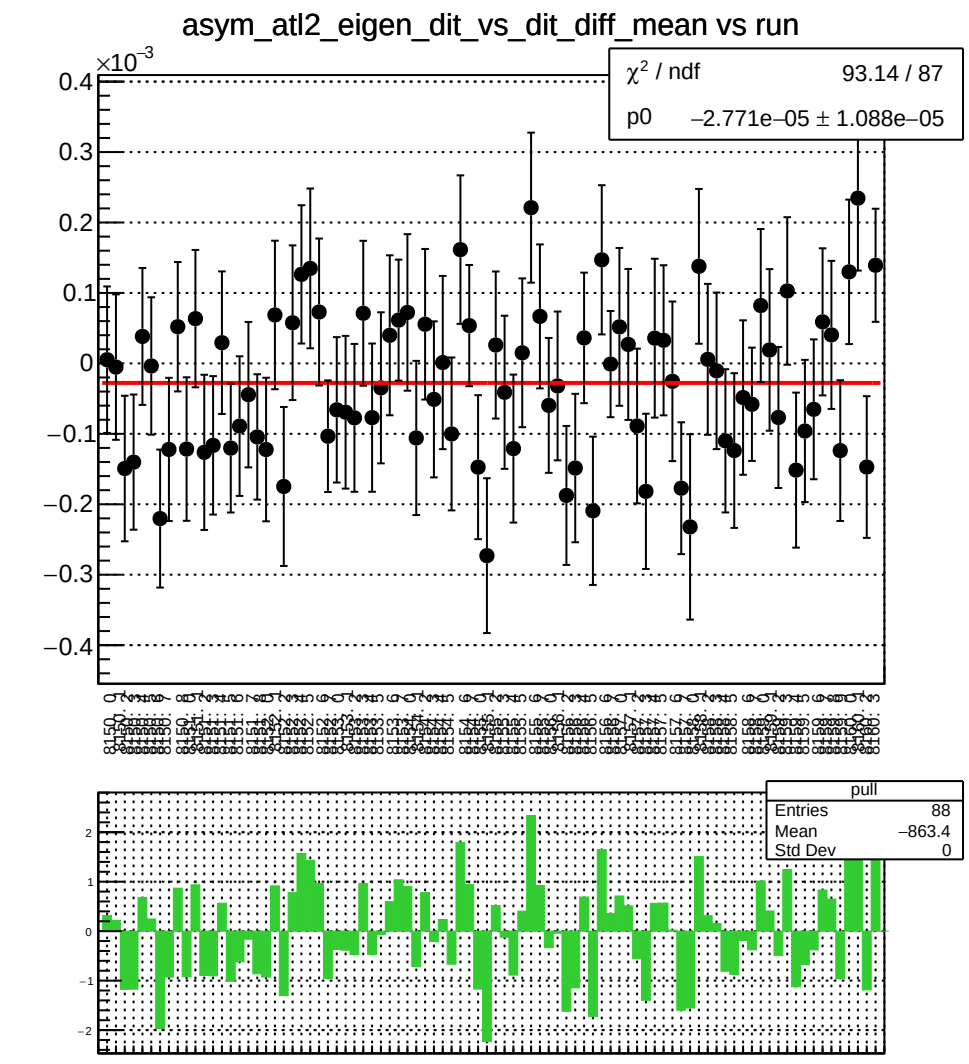

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 8.013e+05 / 87
p0 6.132e−10 ± 6.555e−13
1
0.8
0.6
0.4
0.2
0

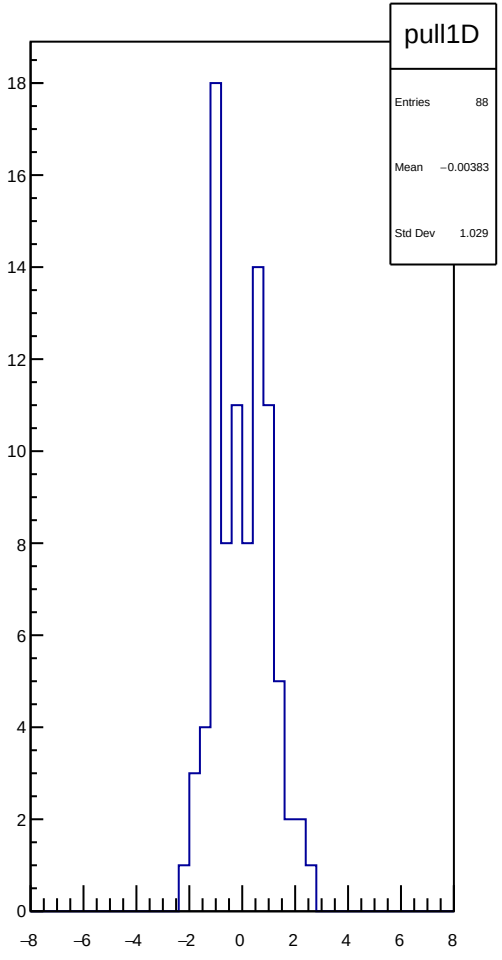

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 84.51 / 87
p0 −0.2416 ± 0.2641
pull
Entries 88
Mean 301.1
Std Dev 0
pull1D
Entries 88
Mean −0.000985
Std Dev 0.98

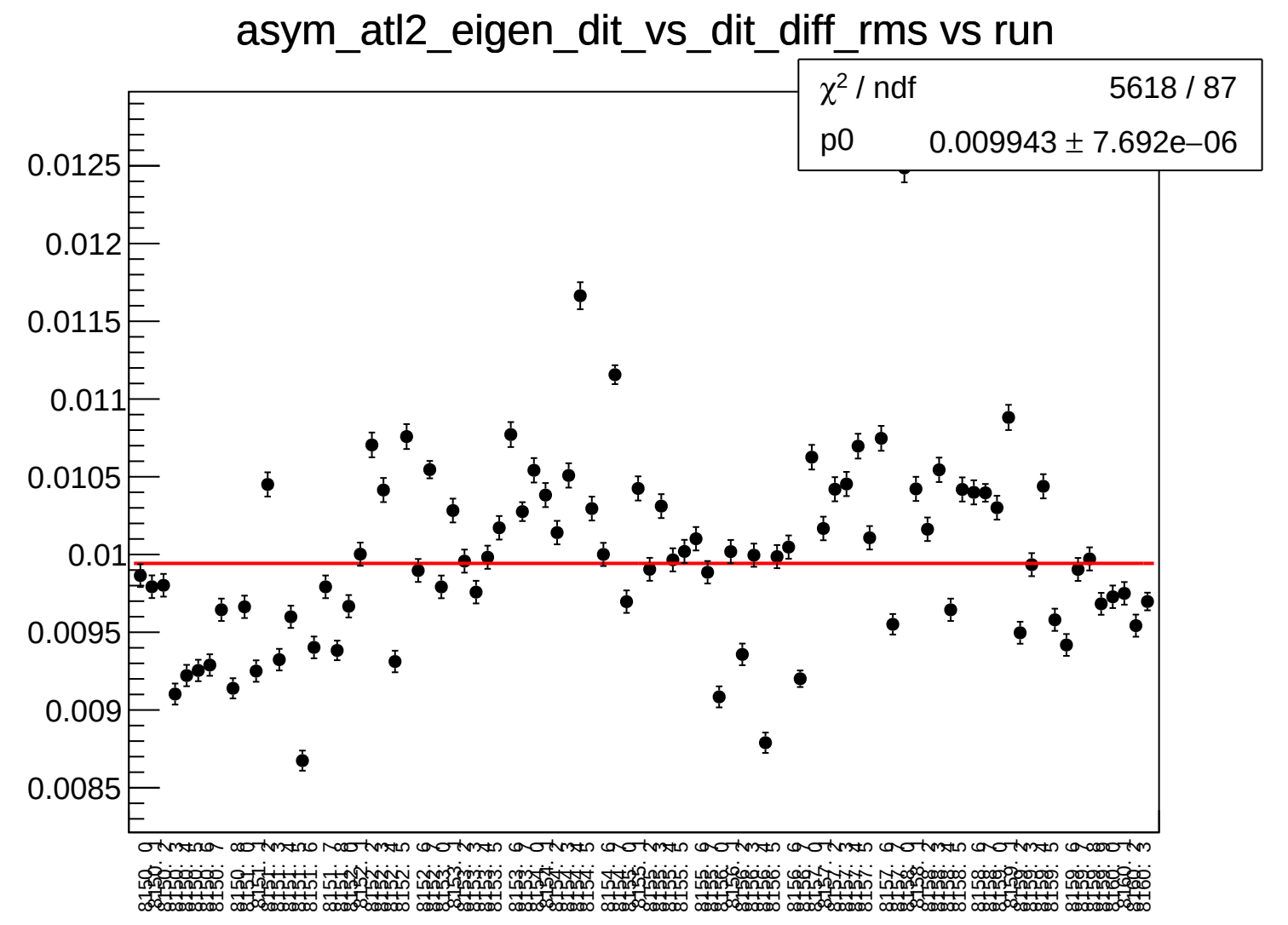

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.625e+04 / 87
p0 240.7 ± 0.1868
320
300
280
260
240
220
200
180

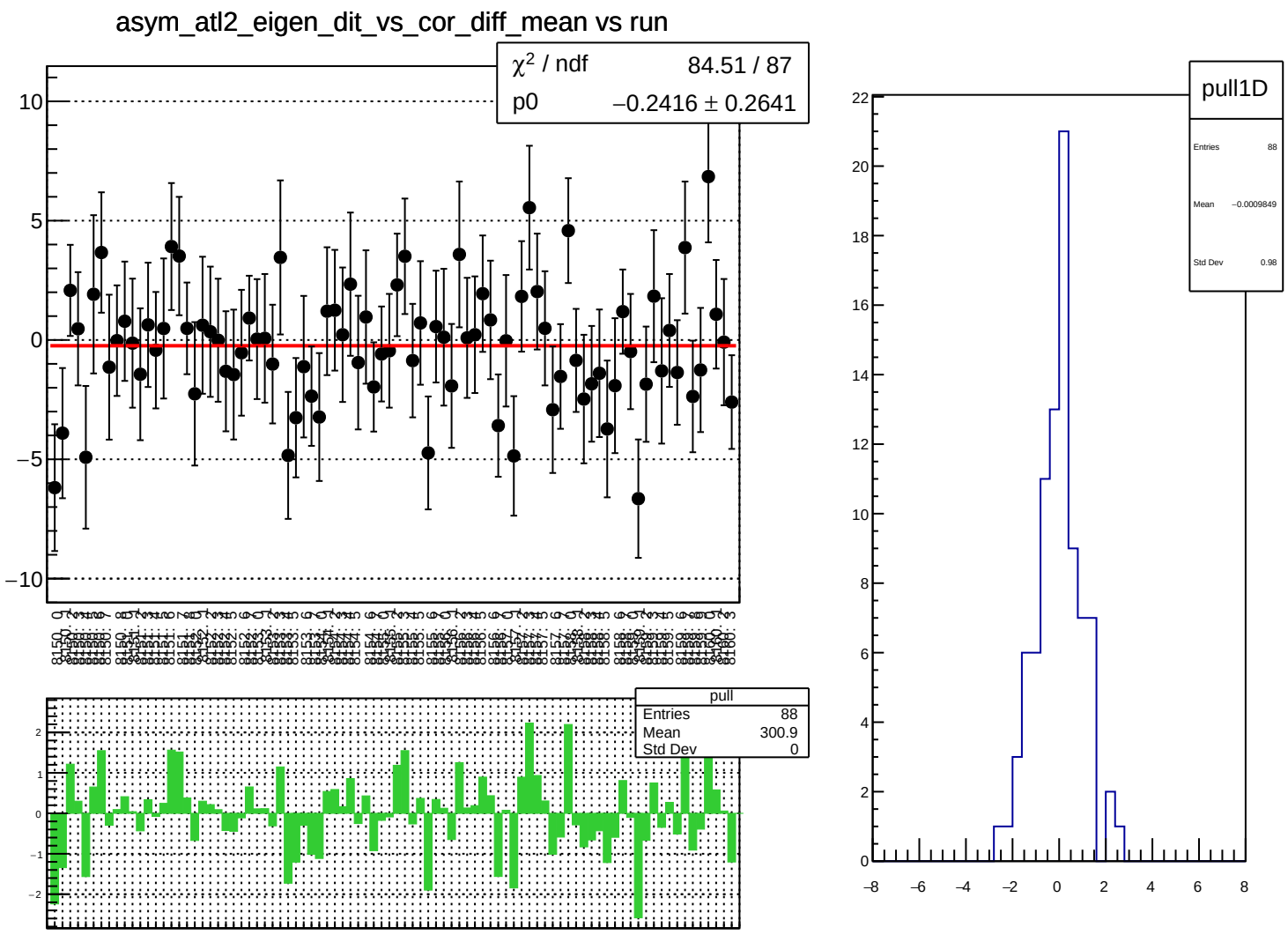

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.51 / 87
p0 −0.2416 ± 0.2641
pull
Entries 88
Mean 301.1
Std Dev 0
pull1D
Entries 88
Mean −0.000985
Std Dev 0.98

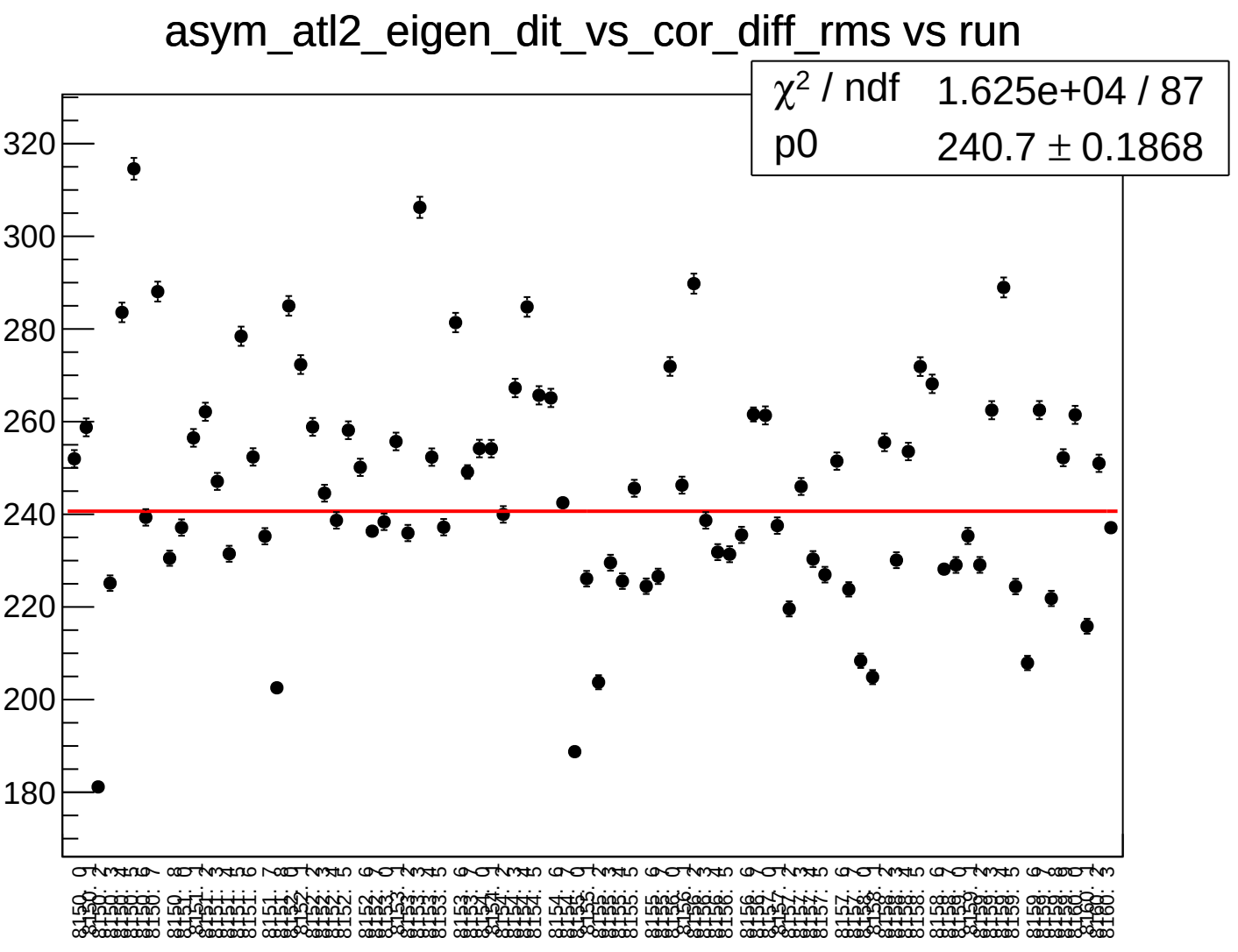

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.625e+04 / 87
p0 240.7 ± 0.1868
320
300
280
260
240
220
200
180

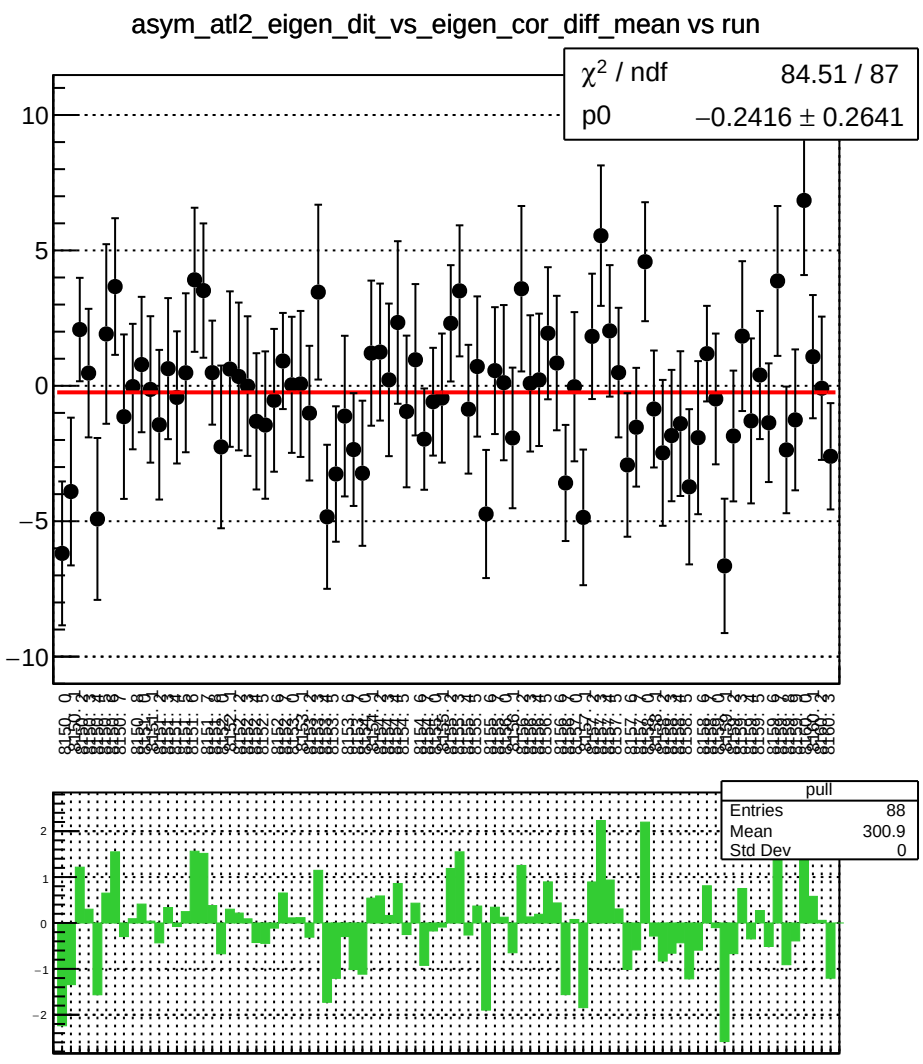

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.14 / 87
p0 −2.771e−05 ± 1.088e−05
pull
Entries 88
Mean −863.4
Std Dev 0

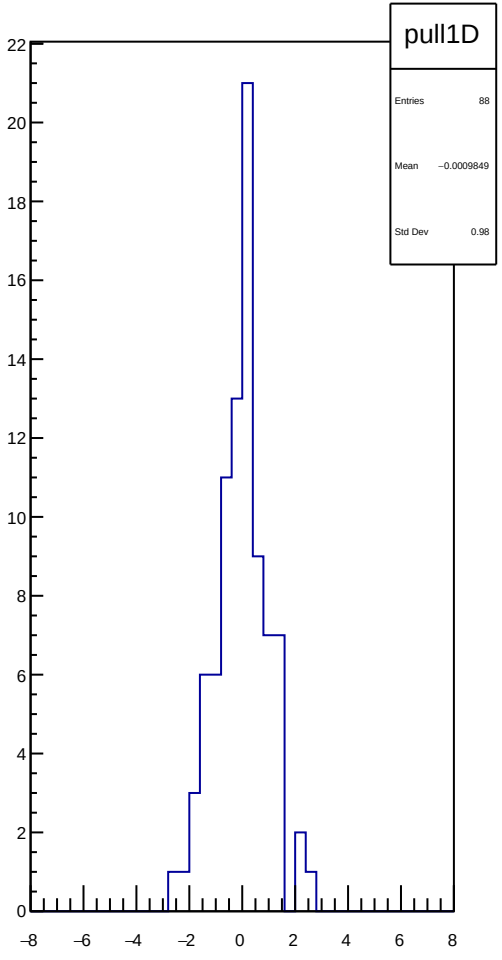

pull1D
Entries 88
Mean −0.00383
Std Dev 1.029

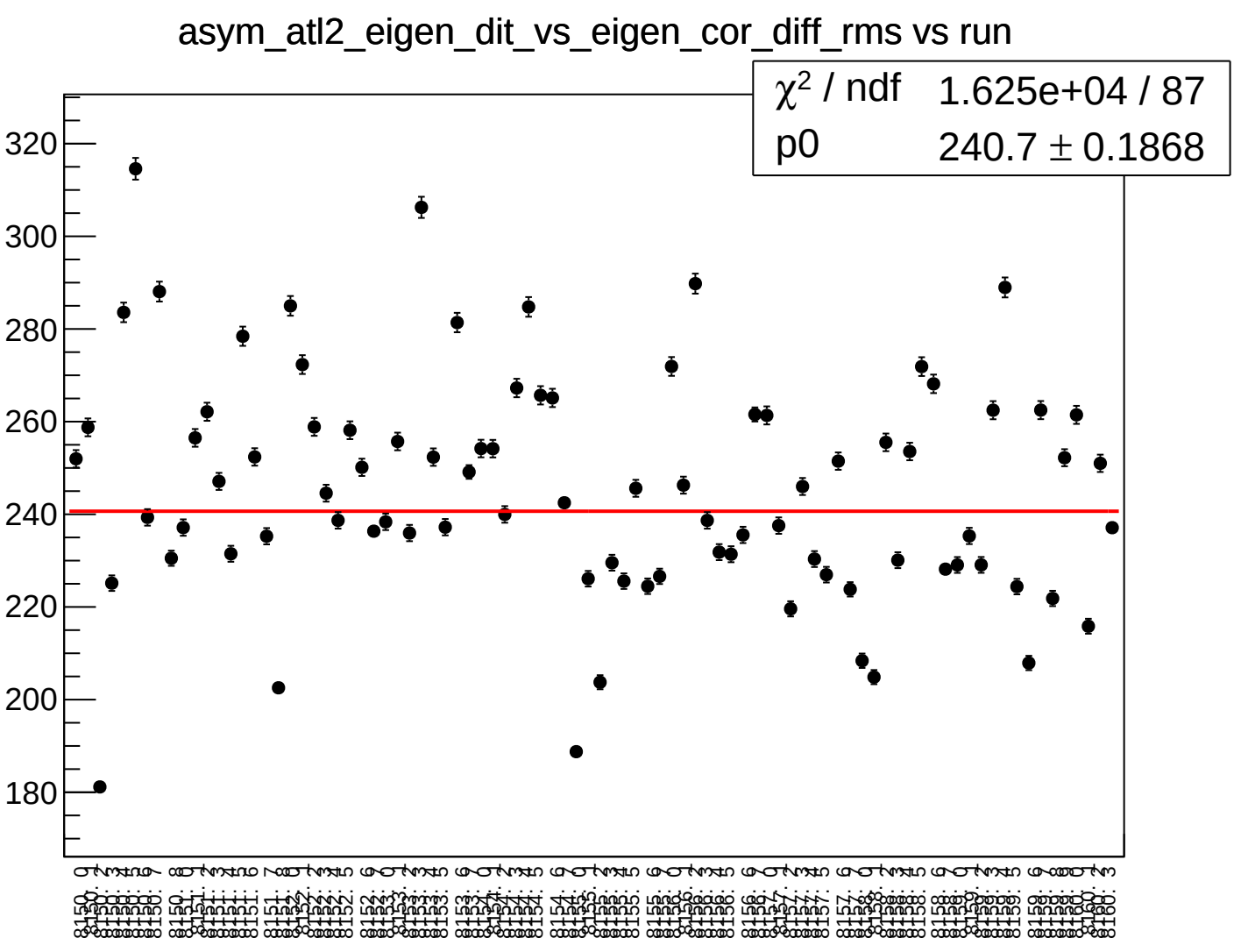

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5618 / 87
p0 0.009943 ± 7.692e−06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085

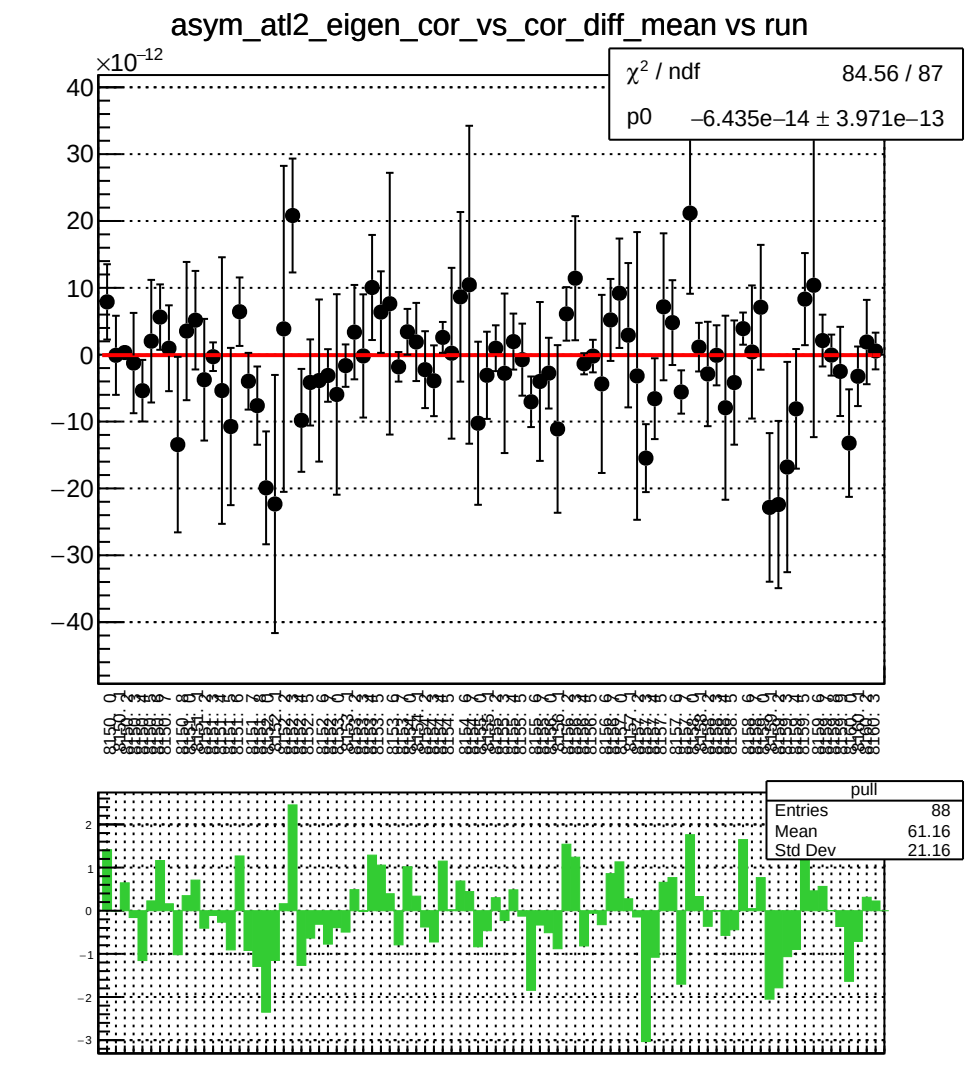

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.51 / 87
p0 −0.2416 ± 0.2641
pull
Entries 88
Mean 300.9
Std Dev 0
pull1D
Entries 88
Mean −0.0009849
Std Dev 0.98

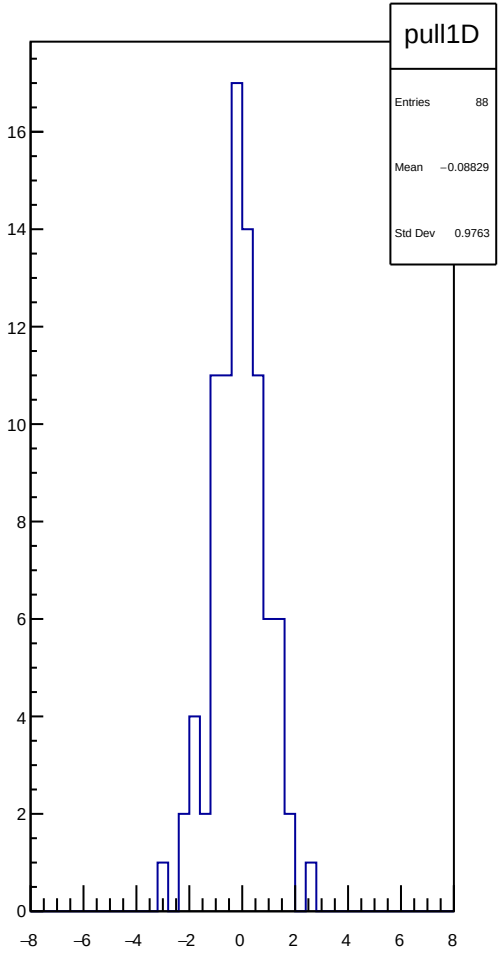

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.625e+04 / 87
p0 240.7 ± 0.1868
320
300
280
260
240
220
200
180

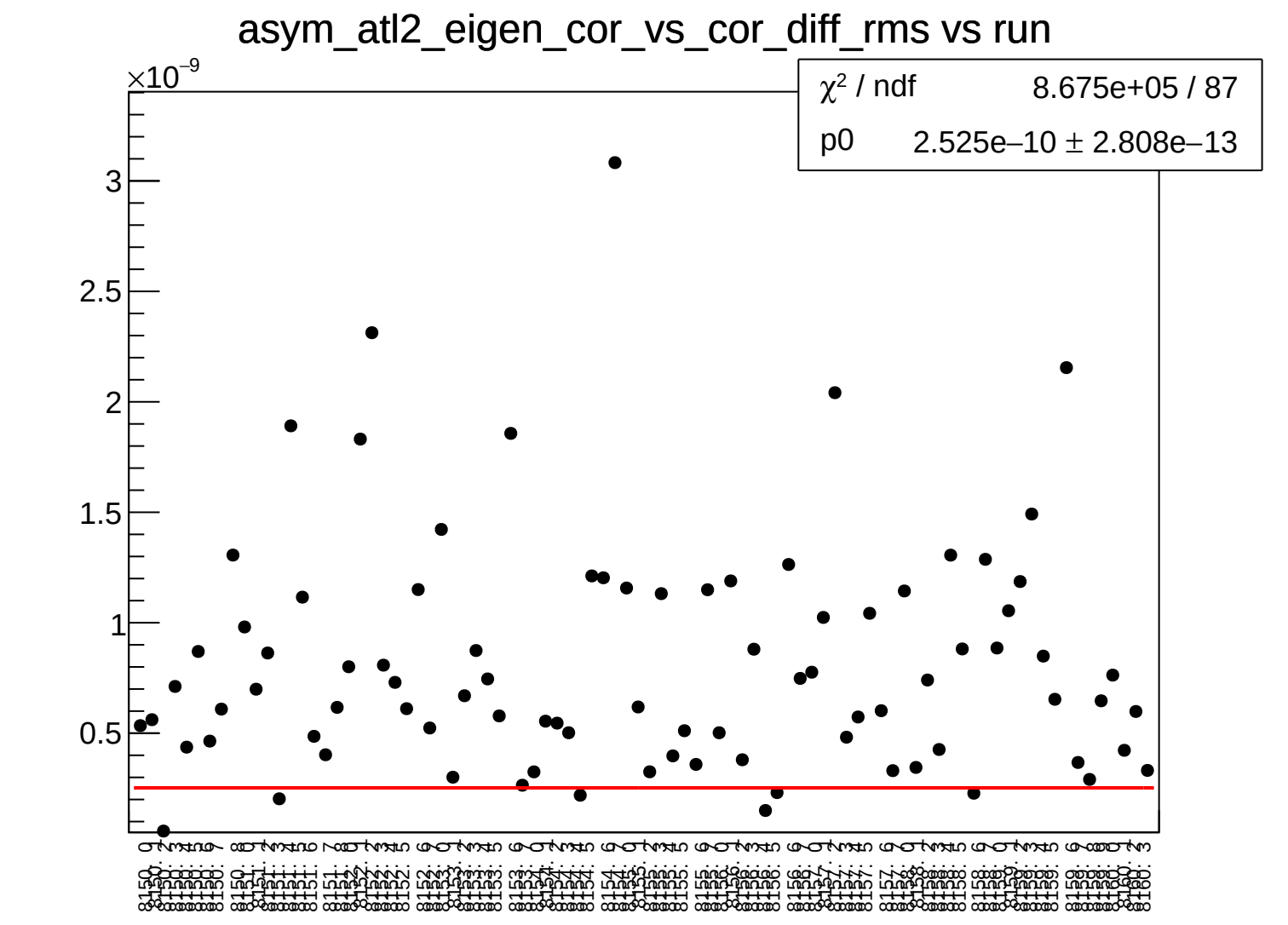

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.51 / 87
p0 −0.2416 ± 0.2641
pull
Entries 88
Mean 300.9
Std Dev 0

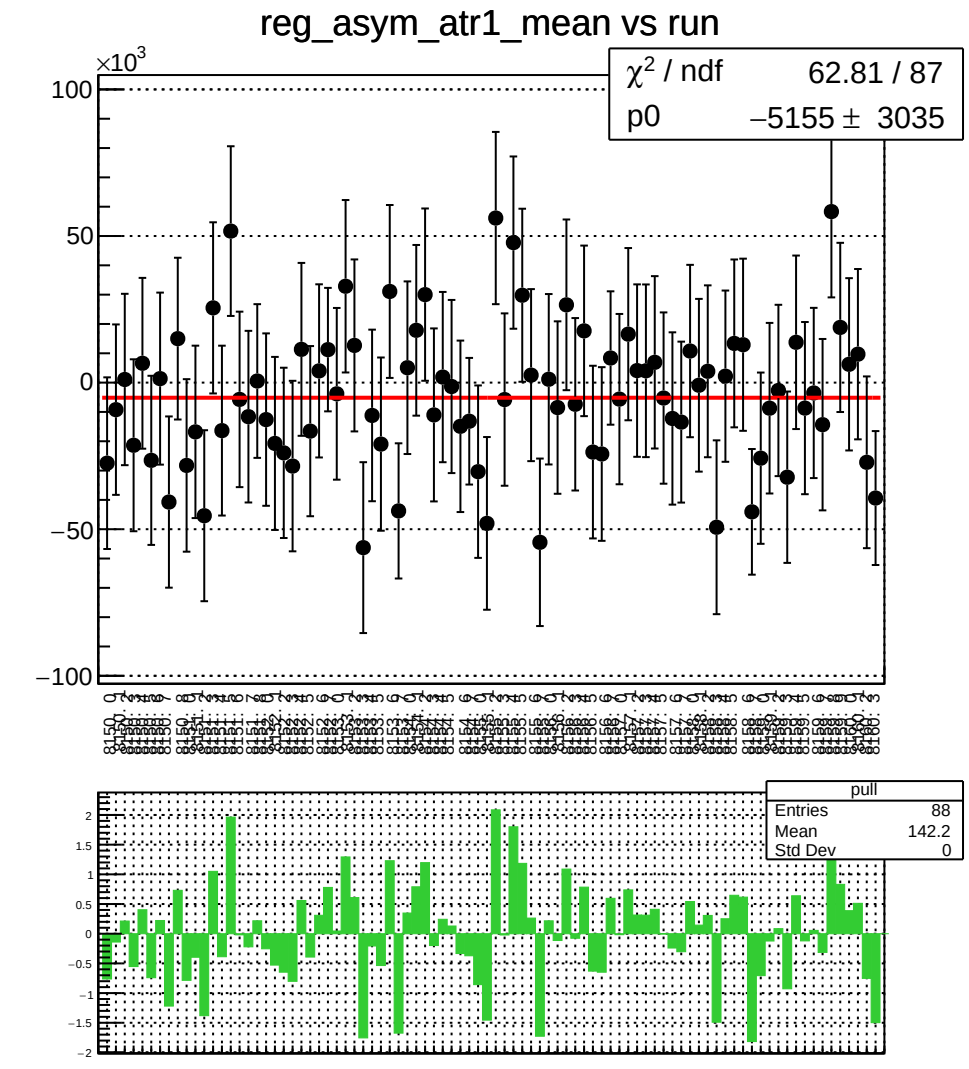

pull1D
Entries 88
Mean −0.0009849
Std Dev 0.98

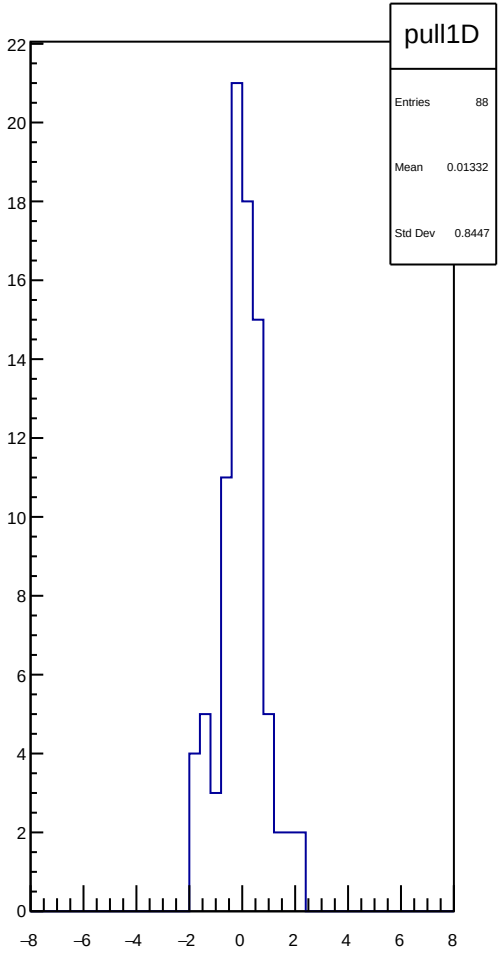

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.625e+04 / 87
p0 240.7 ± 0.1868
320
300
280
260
240
220
200
180

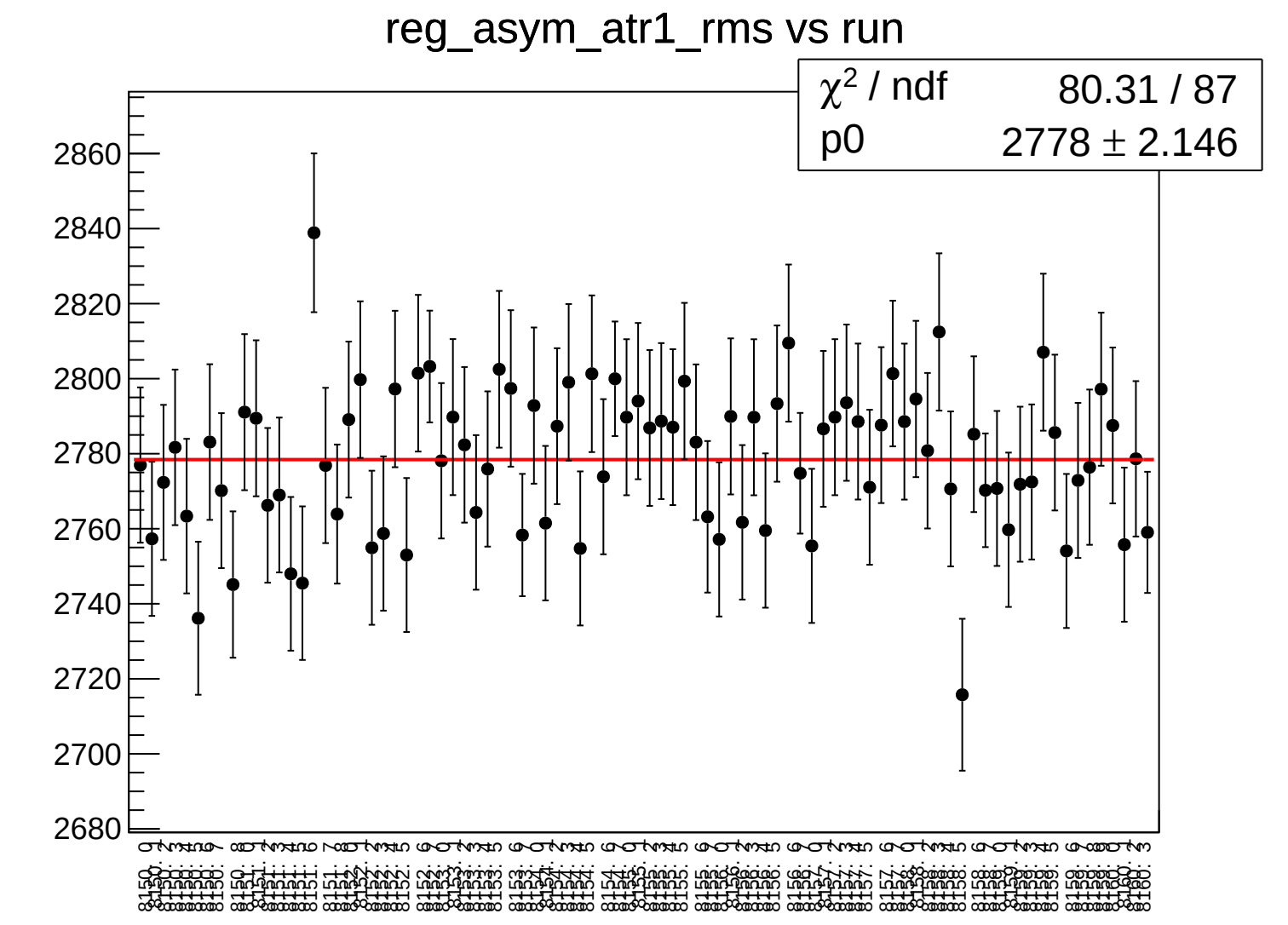

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.56 / 87
p0 −6.435e−14 ± 3.971e−13
pull
Entries 88
Mean 61.16
Std Dev 21.16

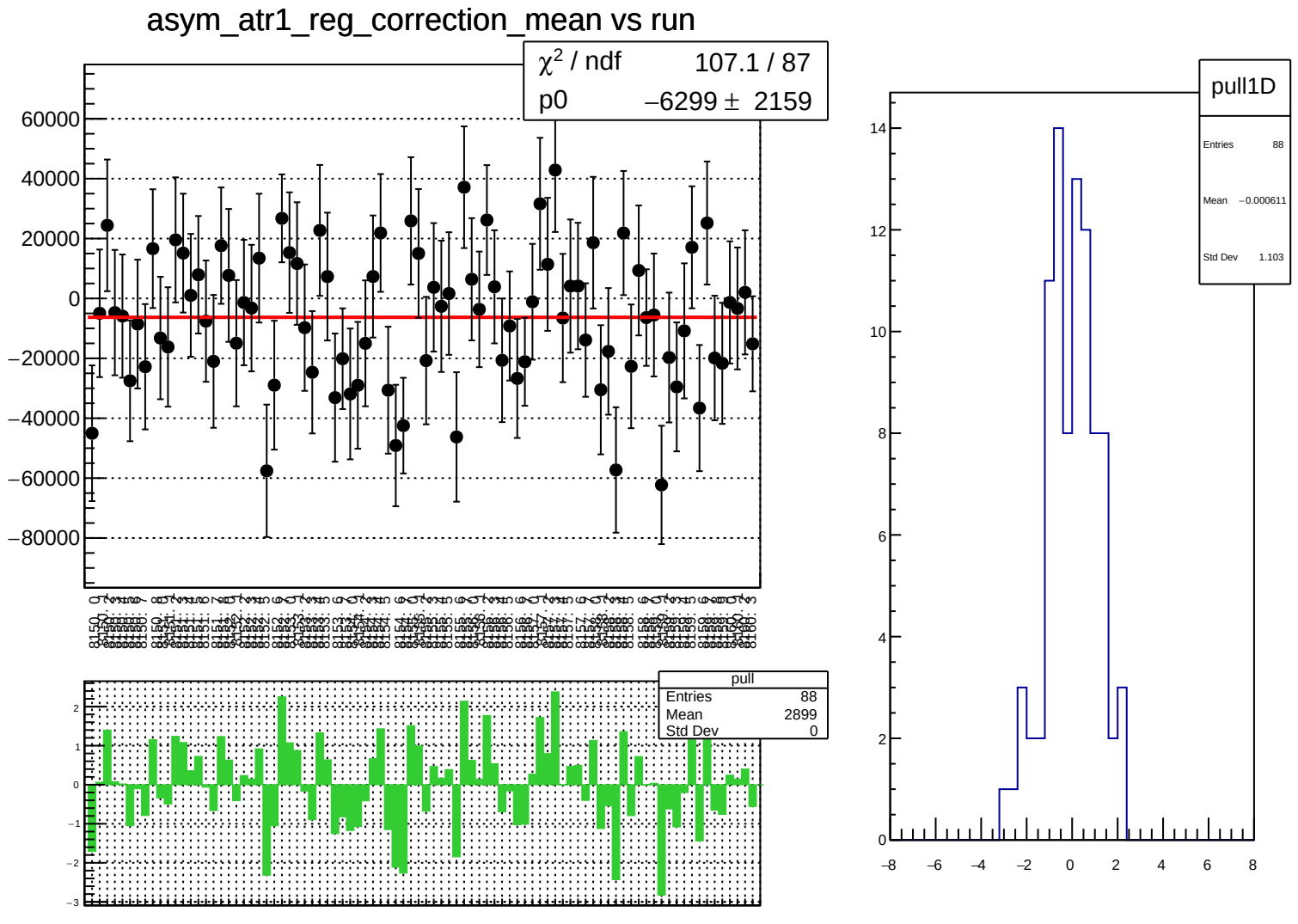

pull1D
Entries 88
Mean −0.08829
Std Dev 0.9763

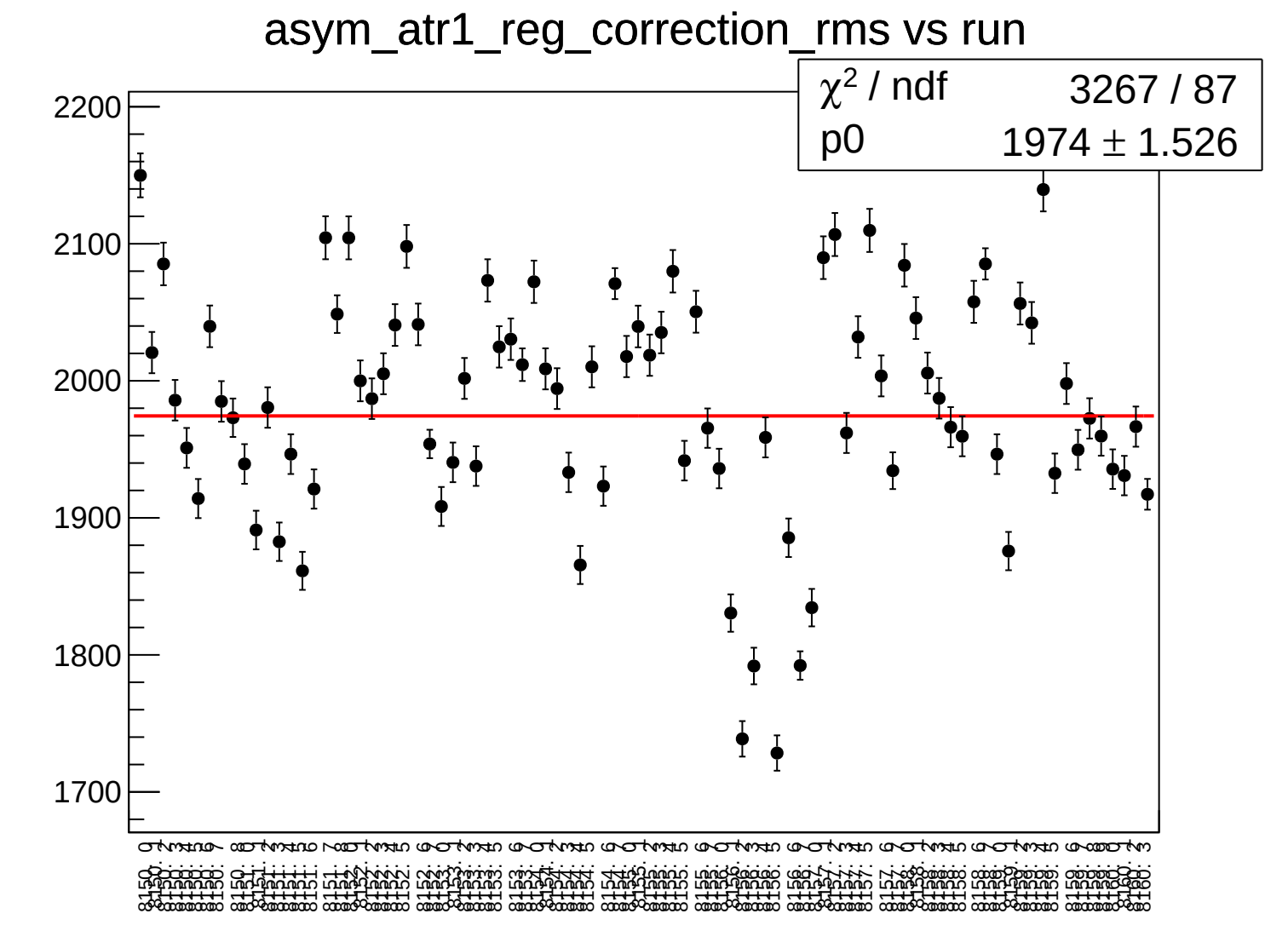

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.675e+05 / 87
p0 2.525e−10 ± 2.808e−13
3
2.5
2
1.5
1
0.5

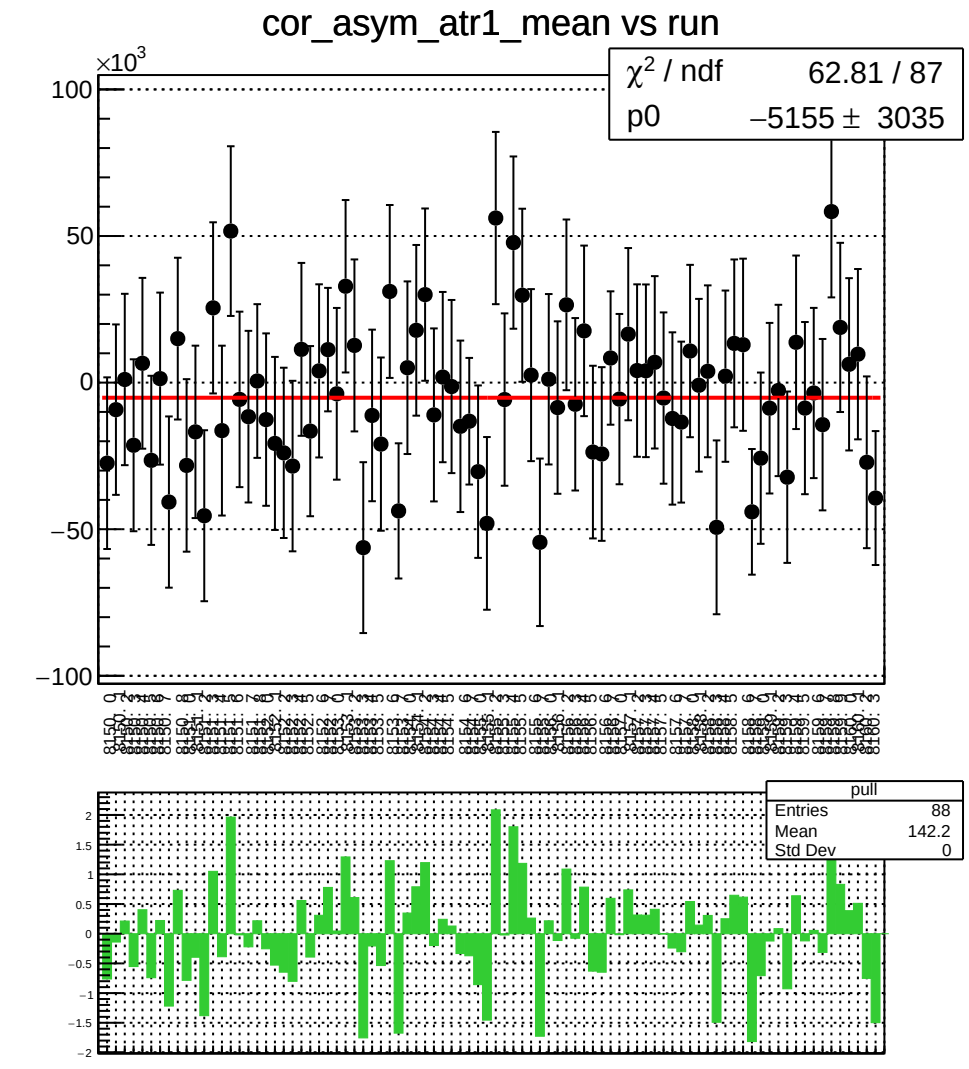

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 62.81 / 87
p0 −5155 ± 3035
pull
Entries 88
Mean 142.2
Std Dev 0

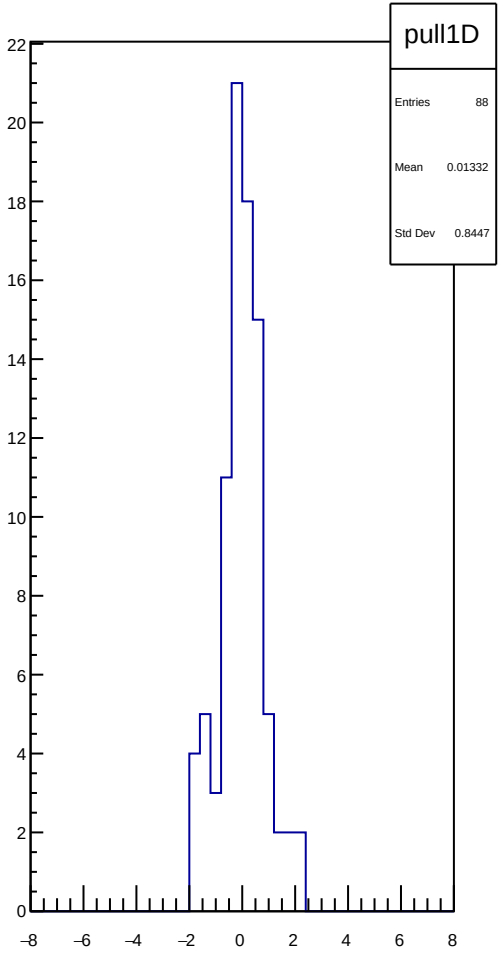

pull1D
Entries 88
Mean 0.01332
Std Dev 0.8447

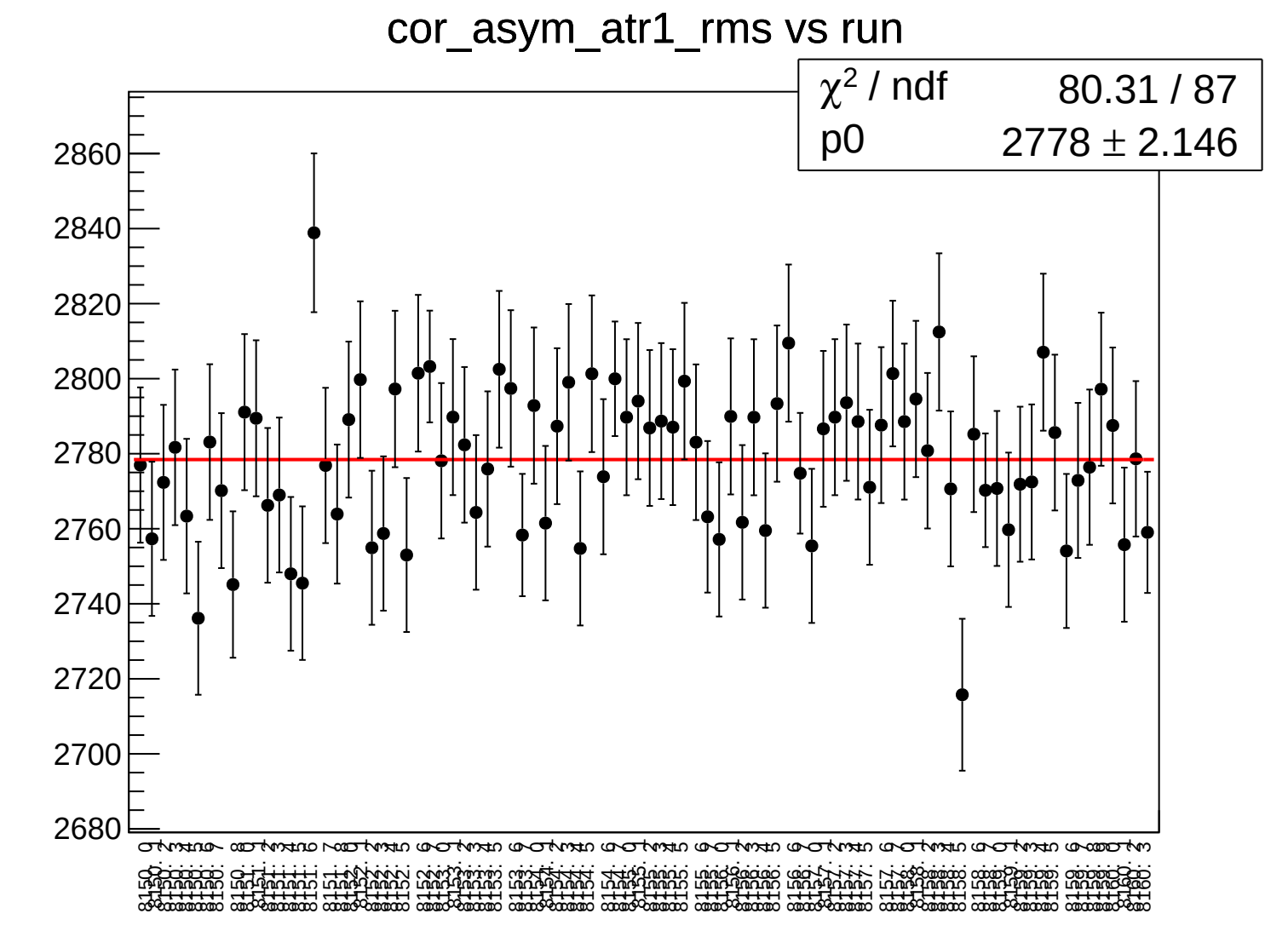

reg_asym_atr1_rms vs run
χ² / ndf 80.31 / 87
p0 2778 ± 2.146
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680

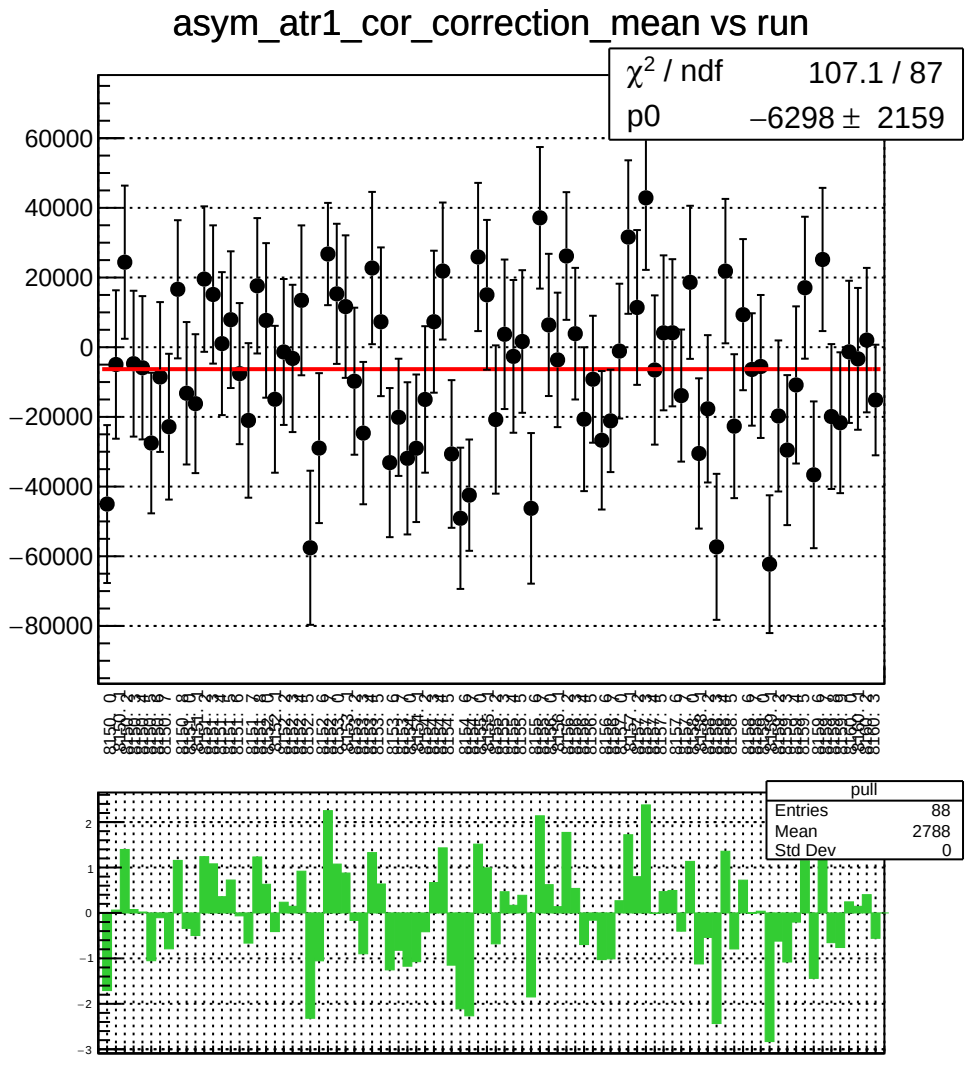

asym_atr1_reg_correction_mean vs run
χ² / ndf 107.1 / 87
p0 −6299 ± 2159
pull
Entries 88
Mean 2899
Std Dev 0
pull1D
Entries 88
Mean −0.000611
Std Dev 1.103

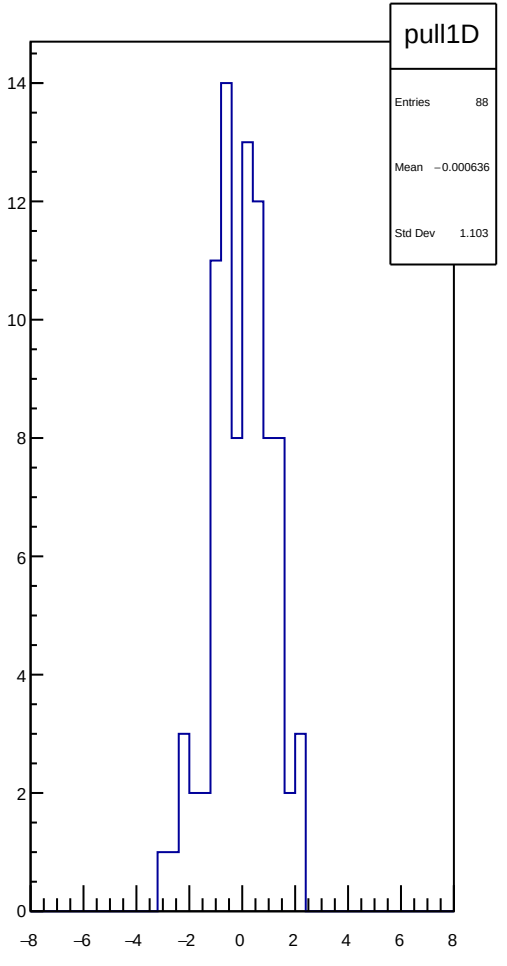

asym_atr1_reg_correction_rms vs run
χ² / ndf 3267 / 87
p0 1974 ± 1.526
2200
2100
2000
1900
1800
1700

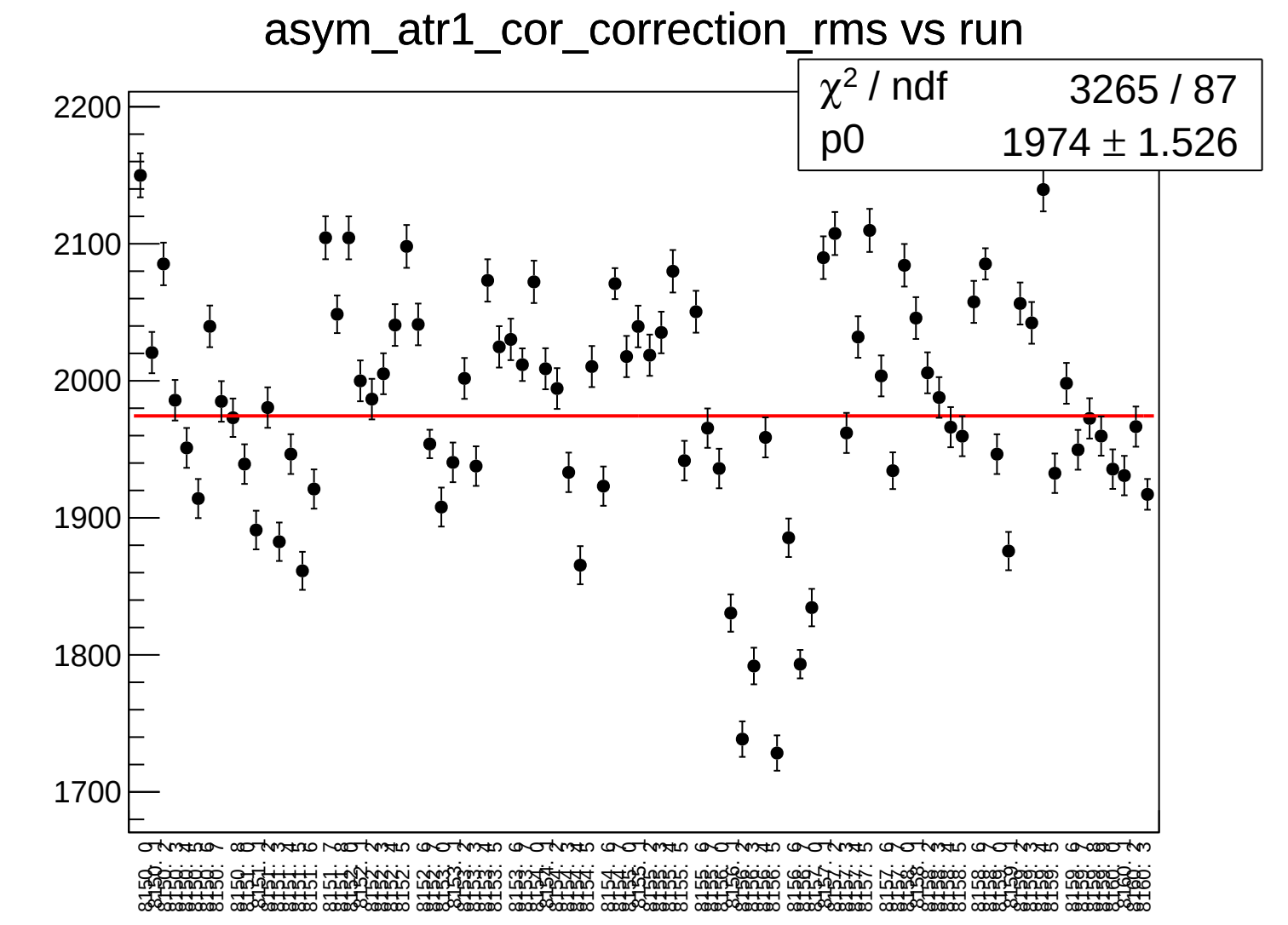

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 62.81 / 87
p0 −5155 ± 3035
pull
Entries 88
Mean 142.2
Std Dev 0

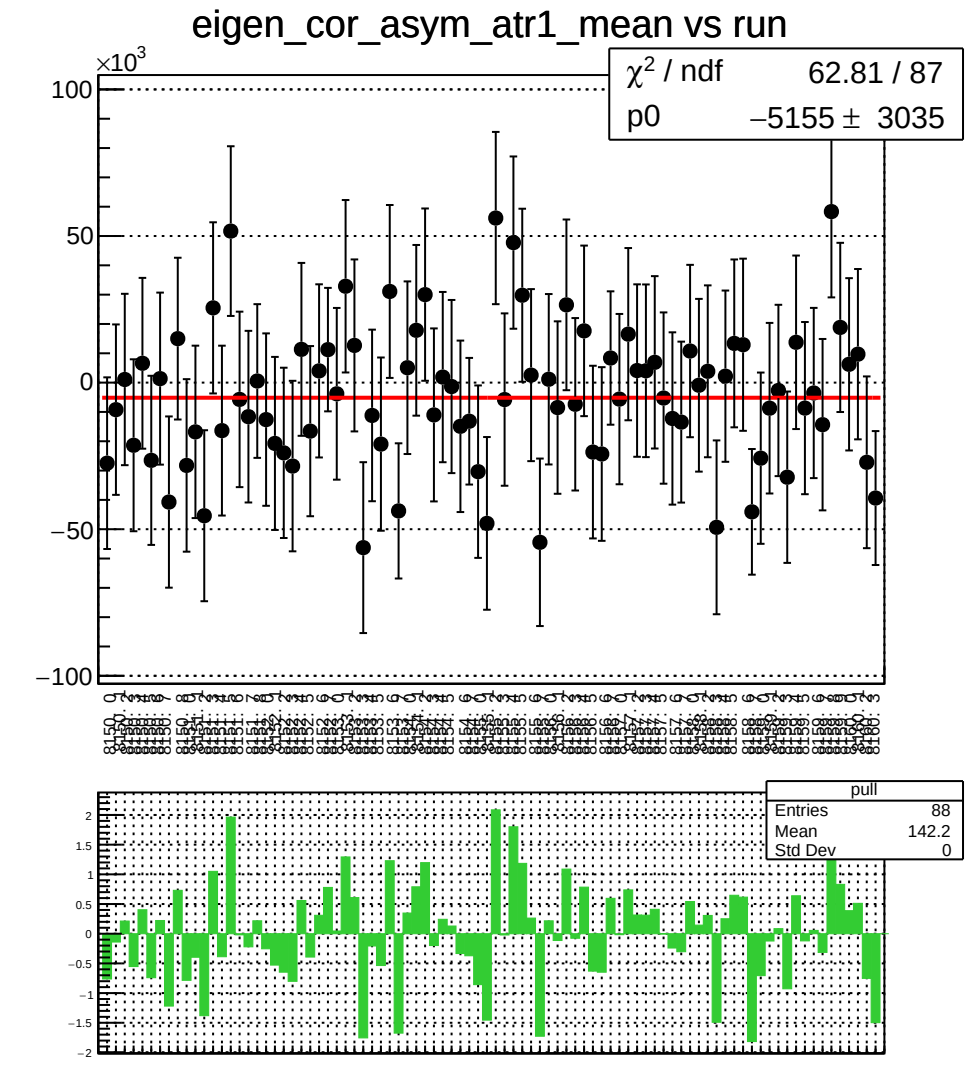

pull1D
Entries 88
Mean 0.01332
Std Dev 0.8447

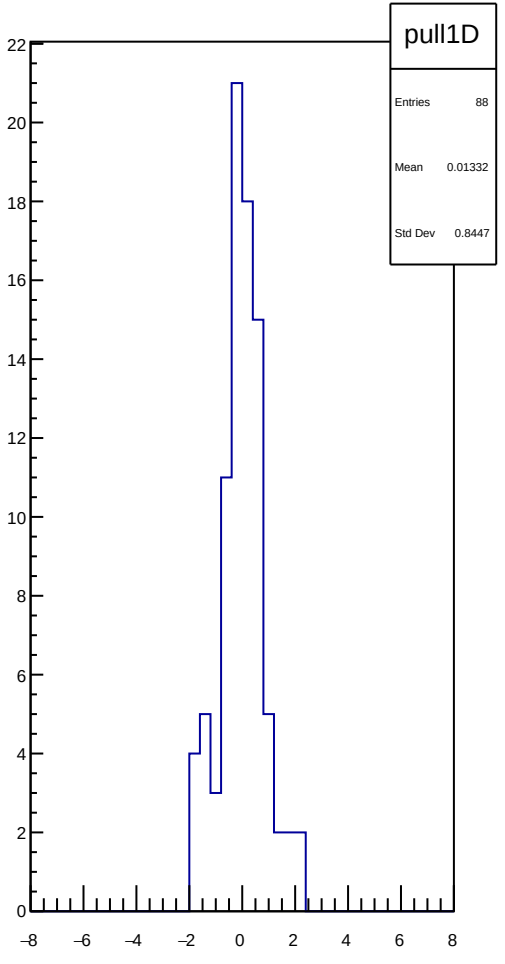

cor_asym_atr1_rms vs run
χ² / ndf 80.31 / 87
p0 2778 ± 2.146
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680

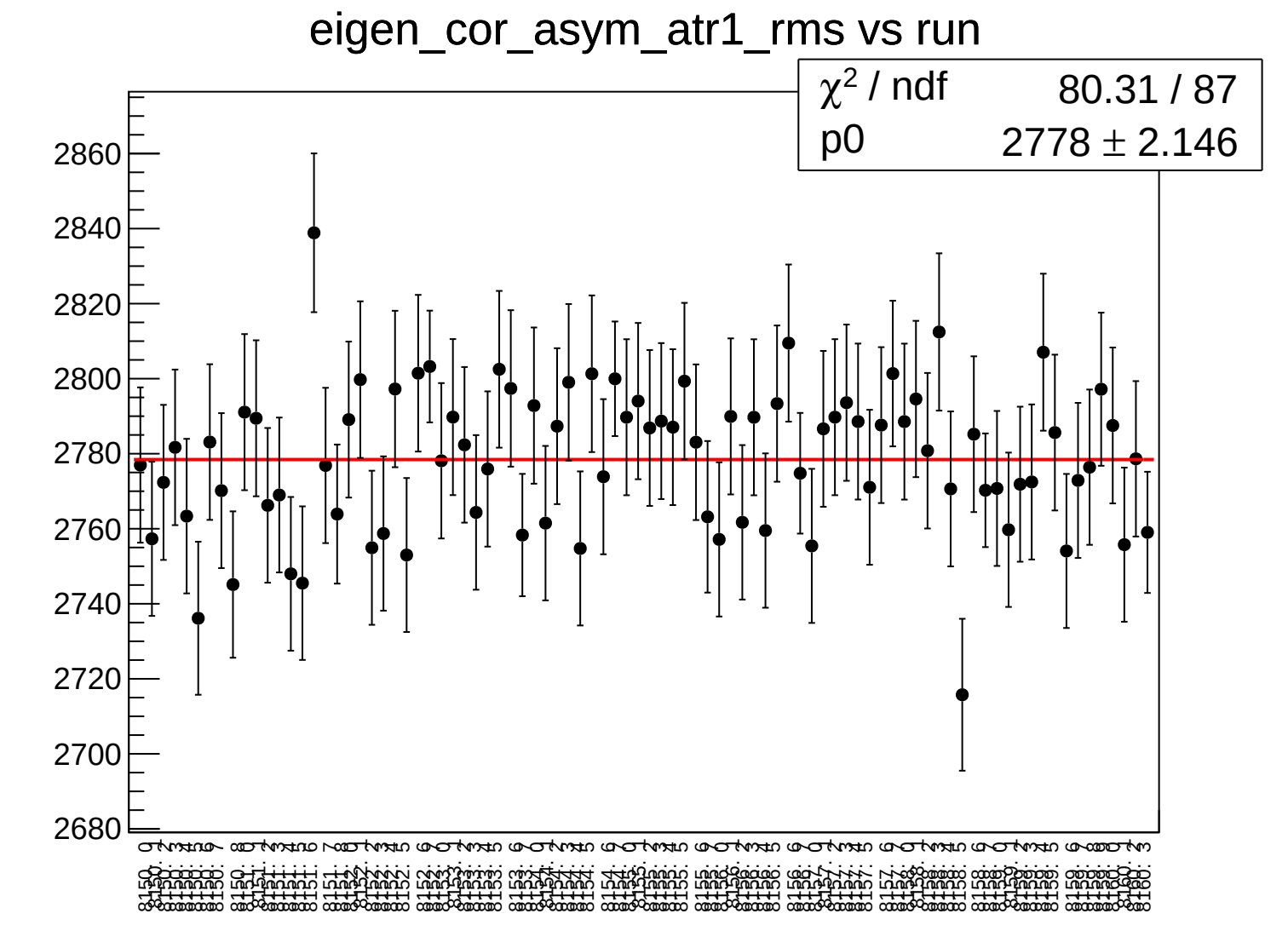

asym_atr1_cor_correction_mean vs run
χ² / ndf 107.1 / 87
p0 −6298 ± 2159
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 2788
Std Dev 0
2
1
0
−1
−2
−3

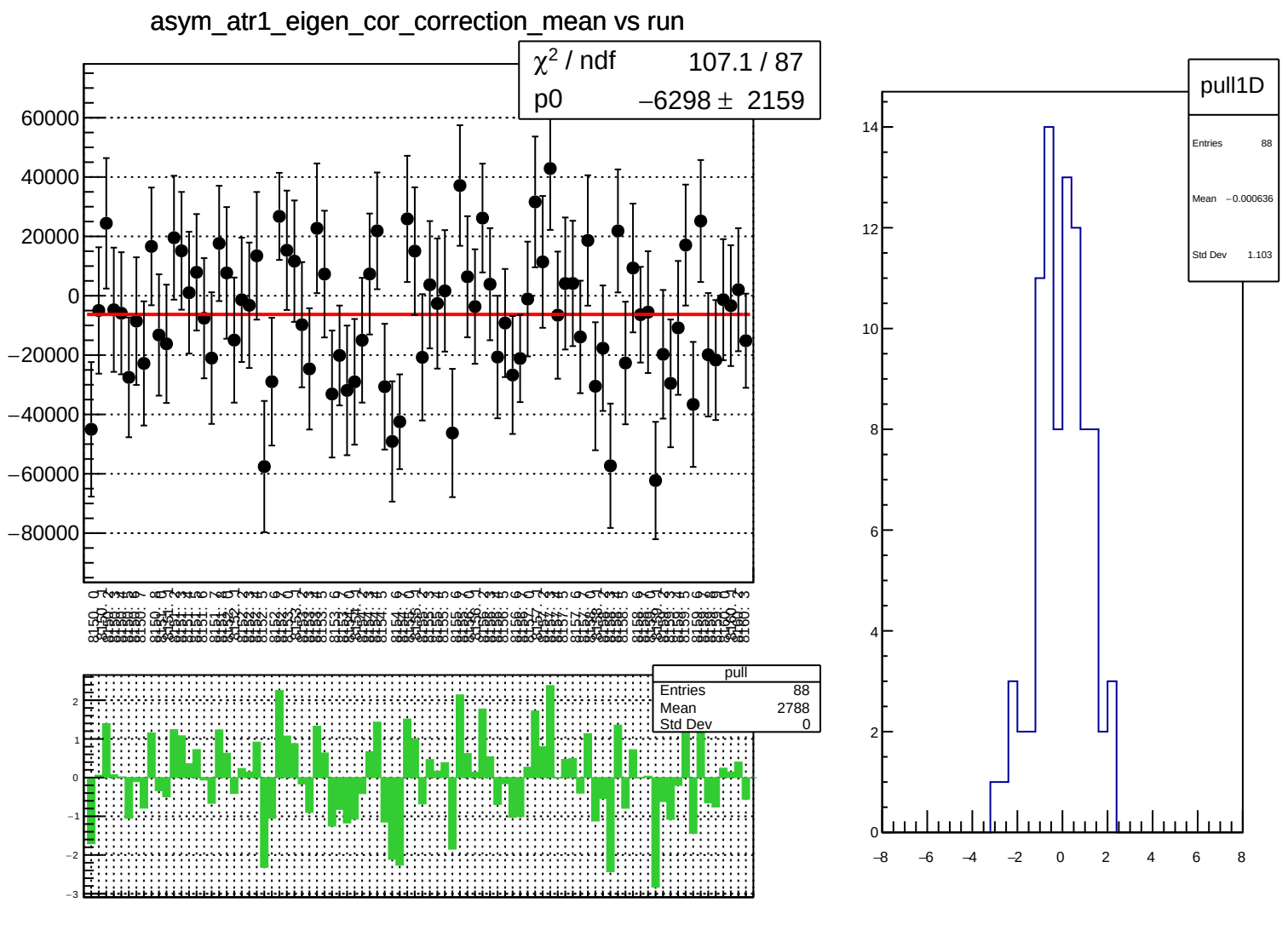

pull1D
Entries 88
Mean −0.000636
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

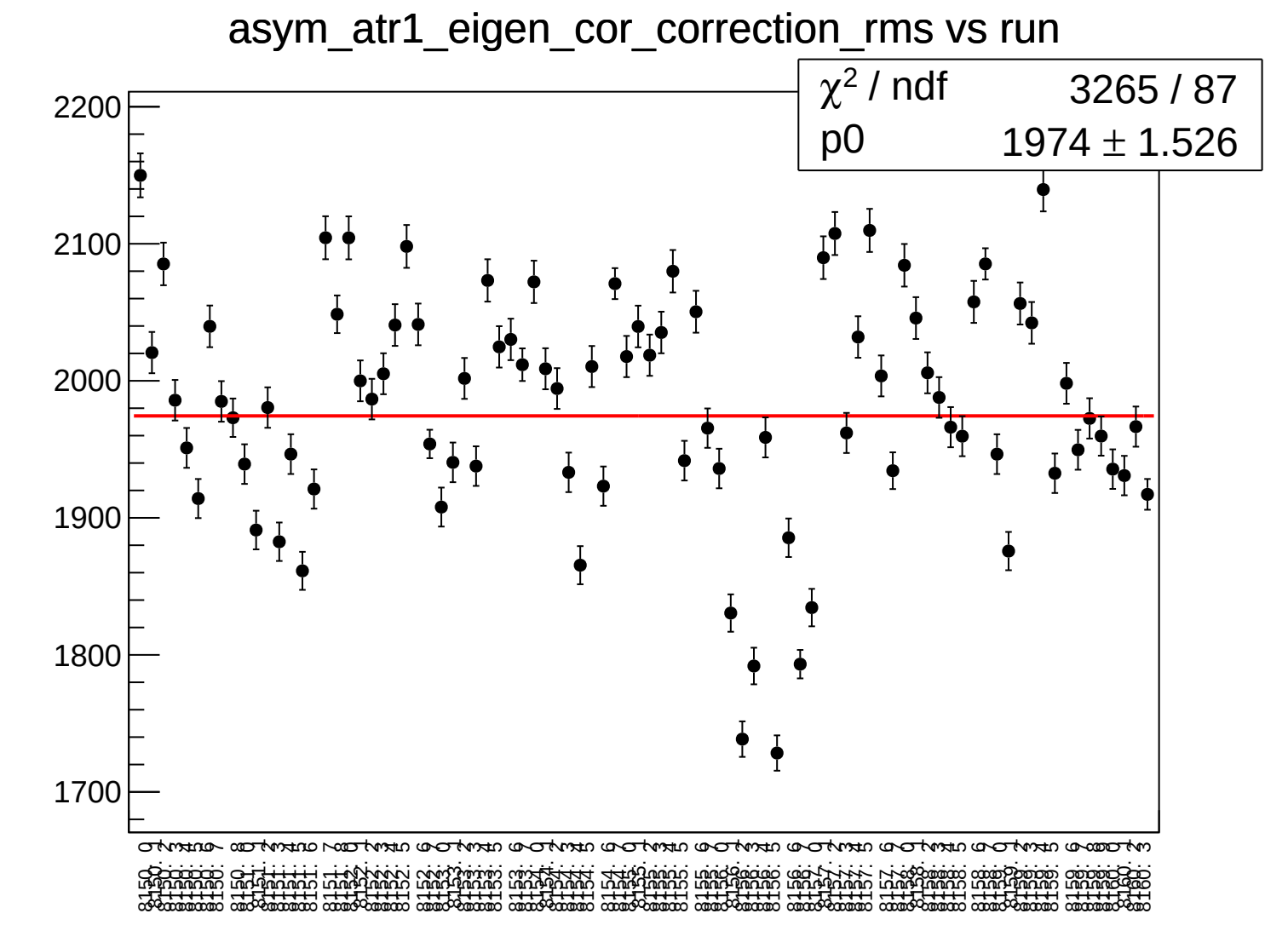

asym_atr1_cor_correction_rms vs run
χ² / ndf 3265 / 87
p0 1974 ± 1.526
2200
2100
2000
1900
1800
1700

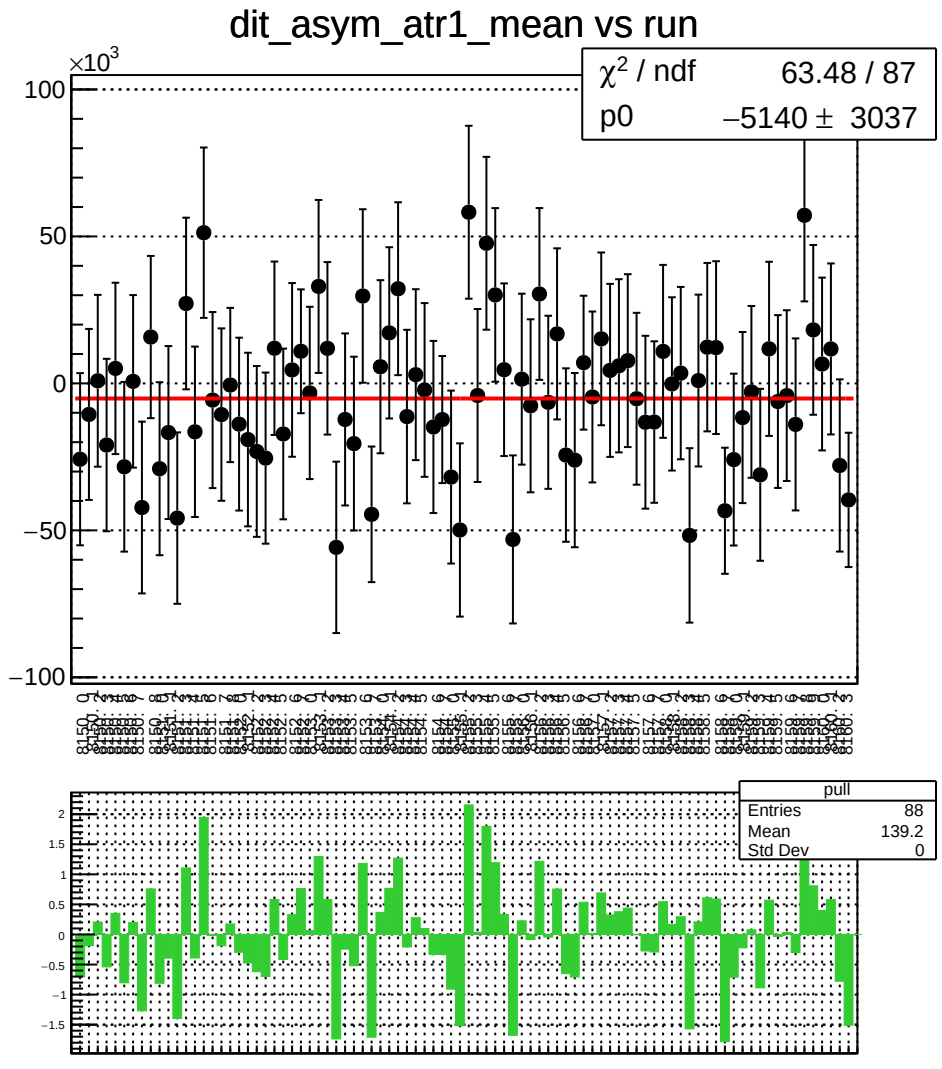

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 62.81 / 87
p0 −5155 ± 3035
100
50
0
−50
−100
pull
Entries 88
Mean 142.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

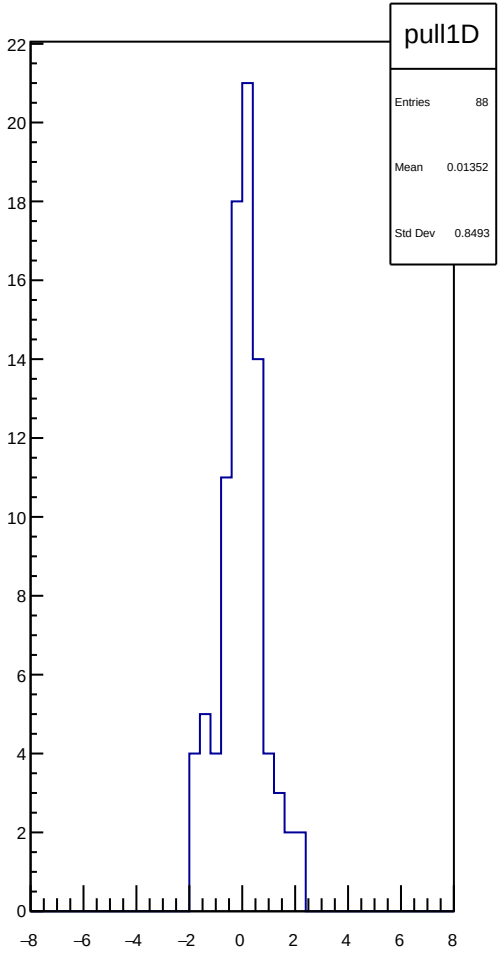

pull1D
Entries 88
Mean 0.01332
Std Dev 0.8447
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

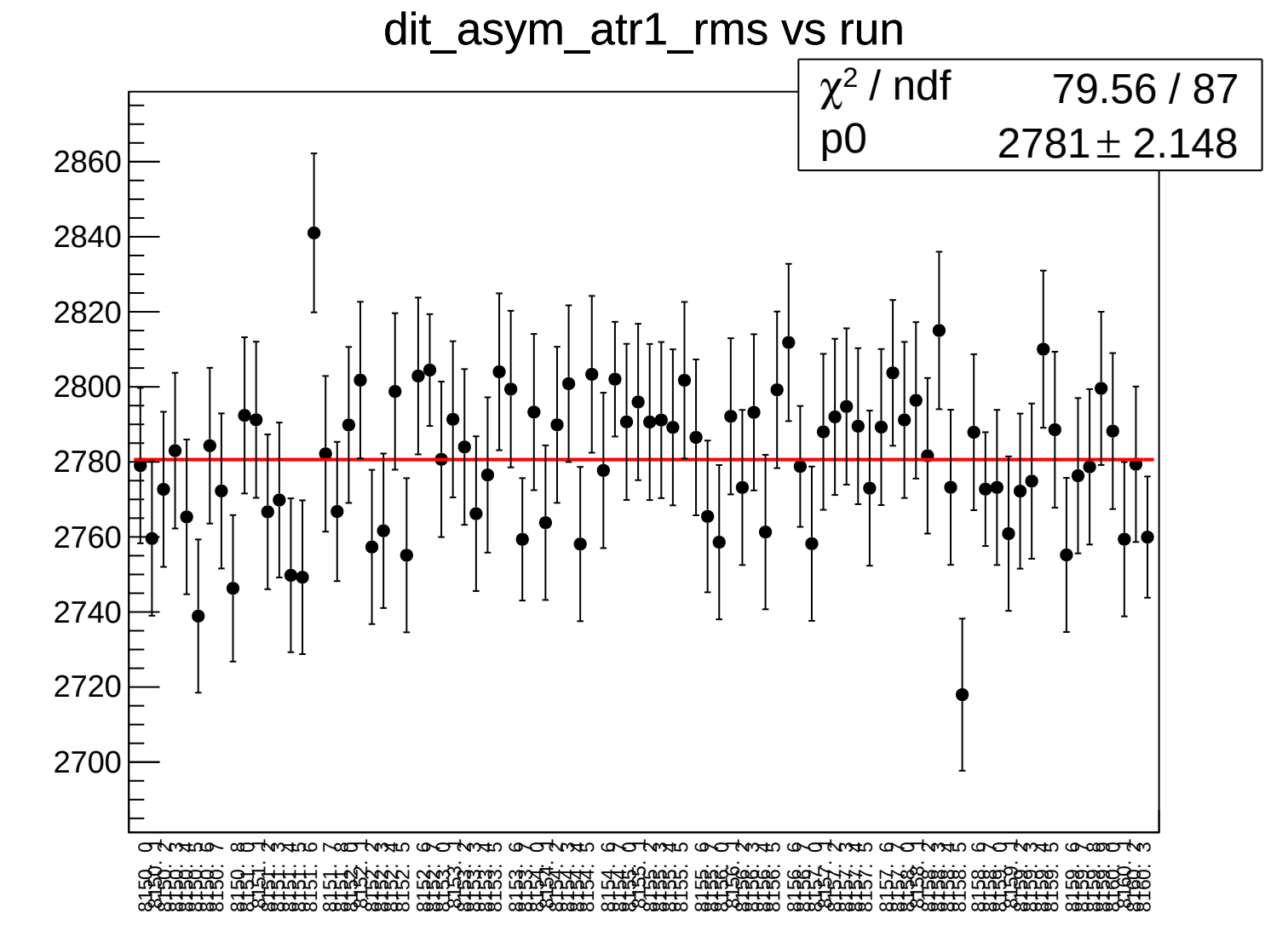

eigen_cor_asym_atr1_rms vs run
χ² / ndf 80.31 / 87
p0 2778 ± 2.146
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680

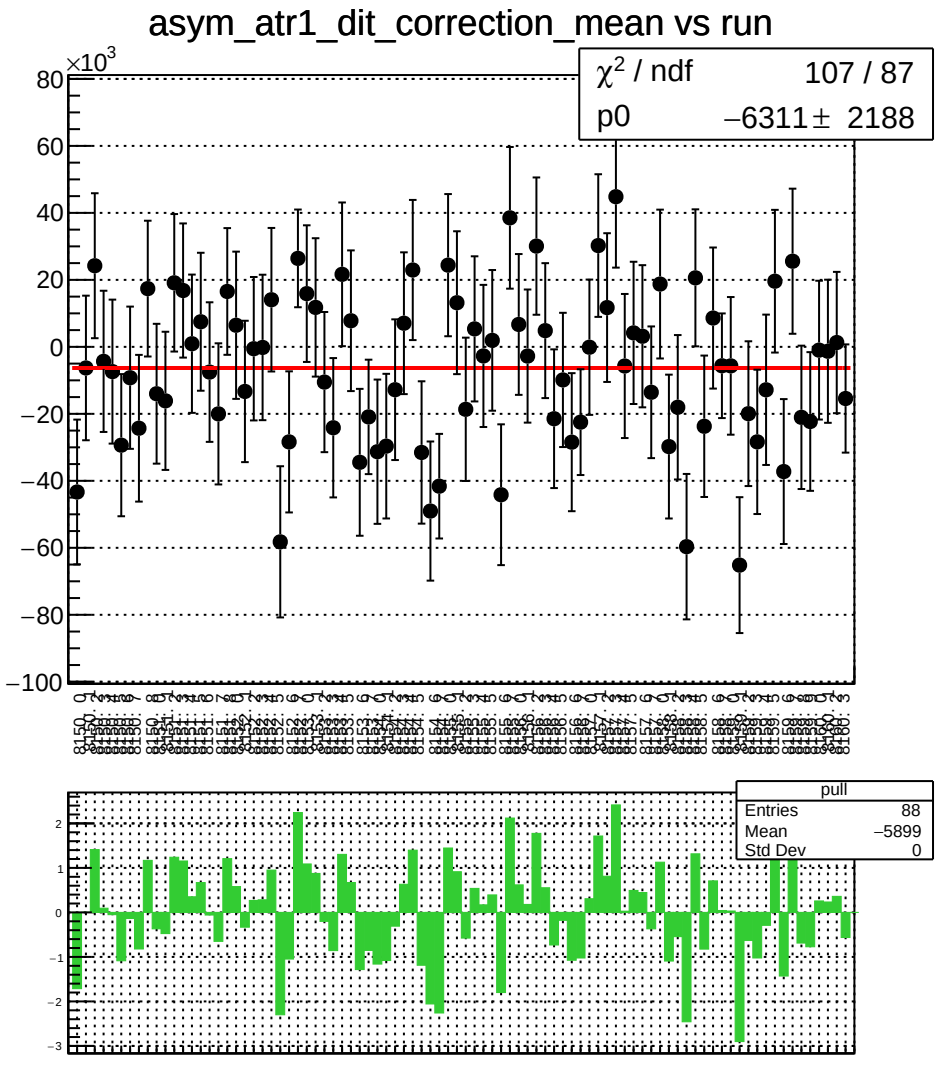

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 107.1 / 87
p0 −6298 ± 2159
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 2788
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.000636
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

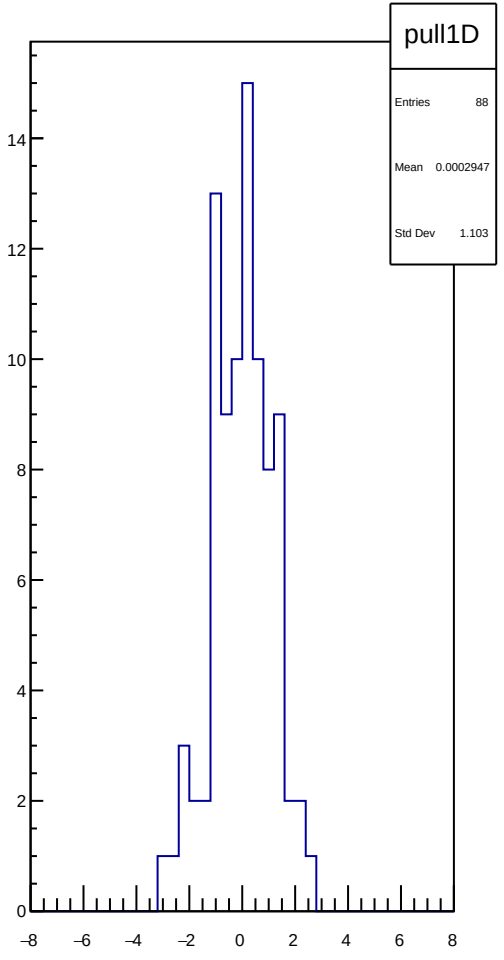

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 3265 / 87
p0 1974 ± 1.526
2200
2100
2000
1900
1800
1700

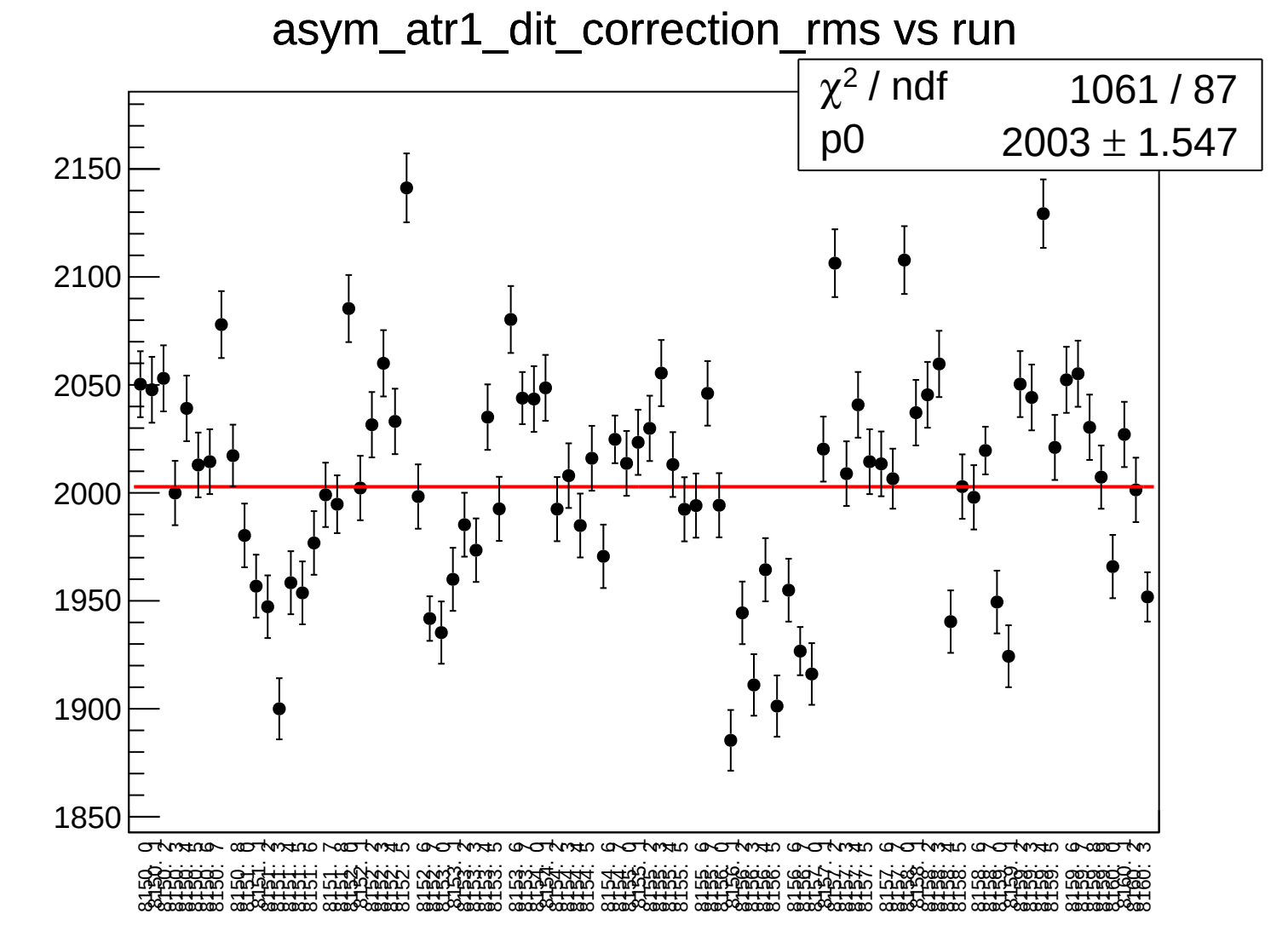

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 63.48 / 87
p0 −5140 ± 3037
pull
Entries 88
Mean 139.2
Std Dev 0

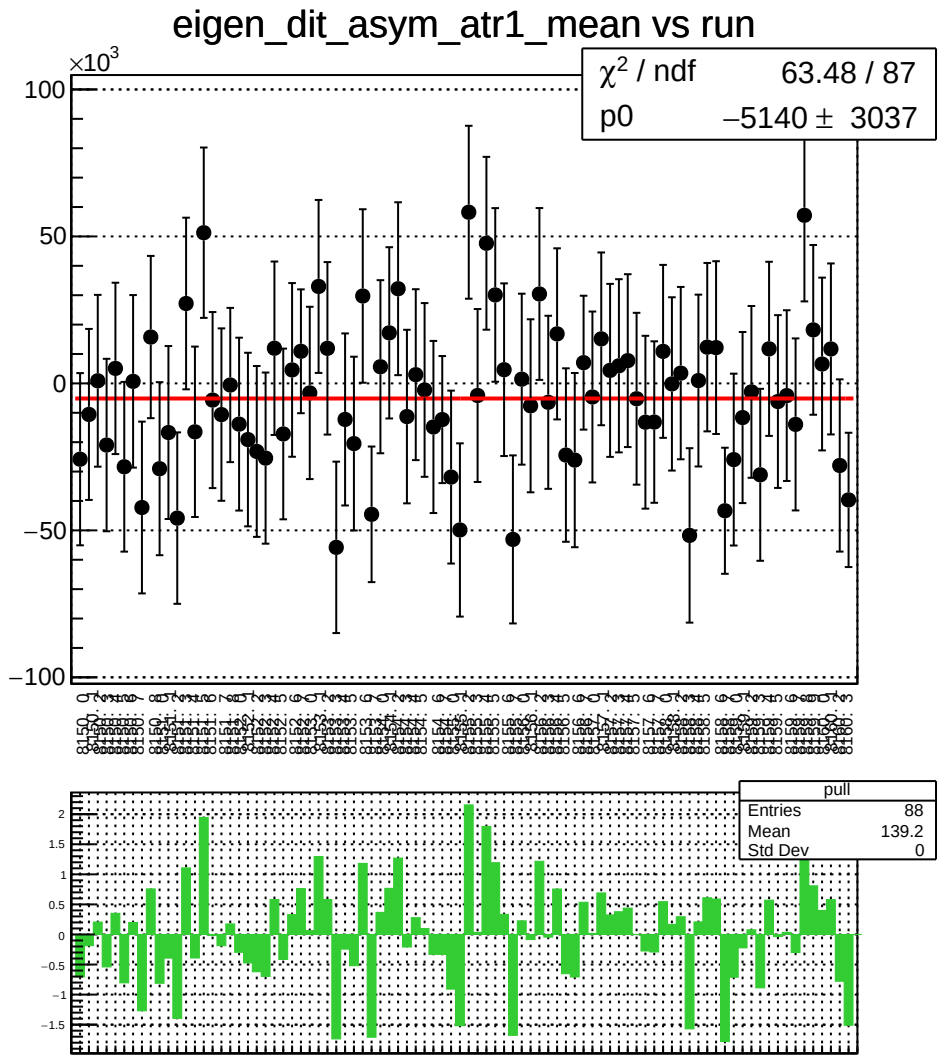

pull1D
Entries 88
Mean 0.01352
Std Dev 0.8493

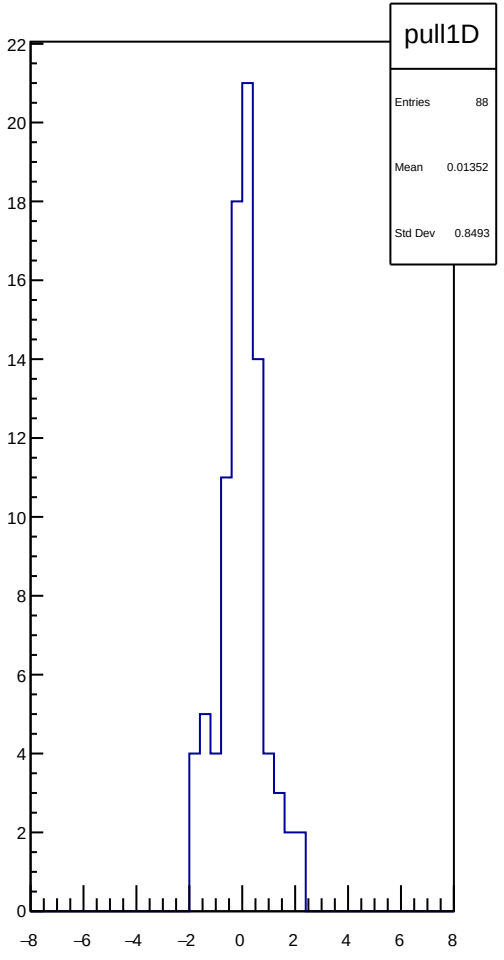

dit_asym_atr1_rms vs run
χ^2 / ndf 79.56 / 87
p0 2781 ± 2.148
2860
2840
2820
2800
2780
2760
2740
2720
2700

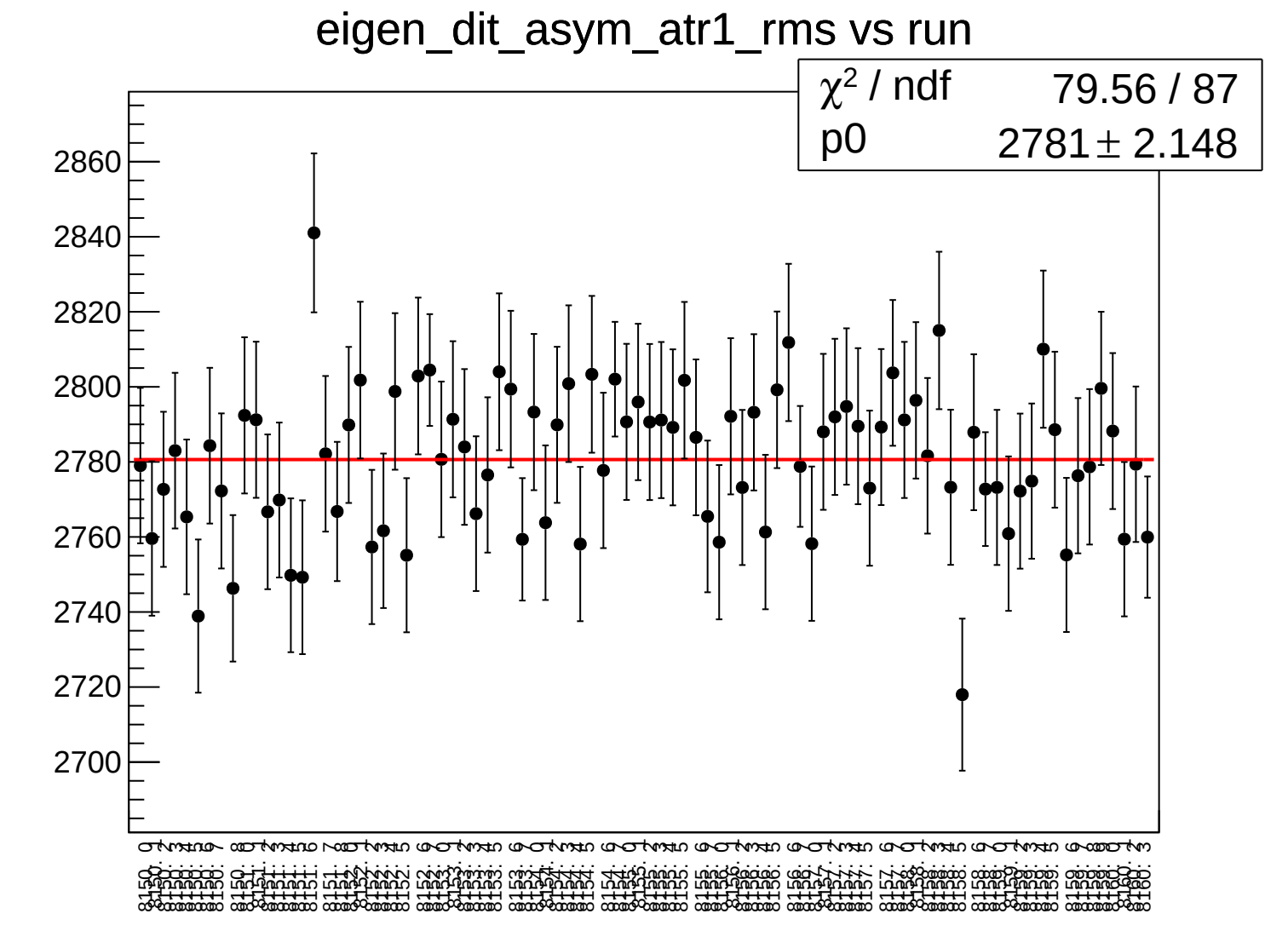

asym_atr1_dit_correction_mean vs run
χ^2 / ndf 107 / 87
p0 −6311 ± 2188
×10^3
pull
Entries 88
Mean −5899
Std Dev 0

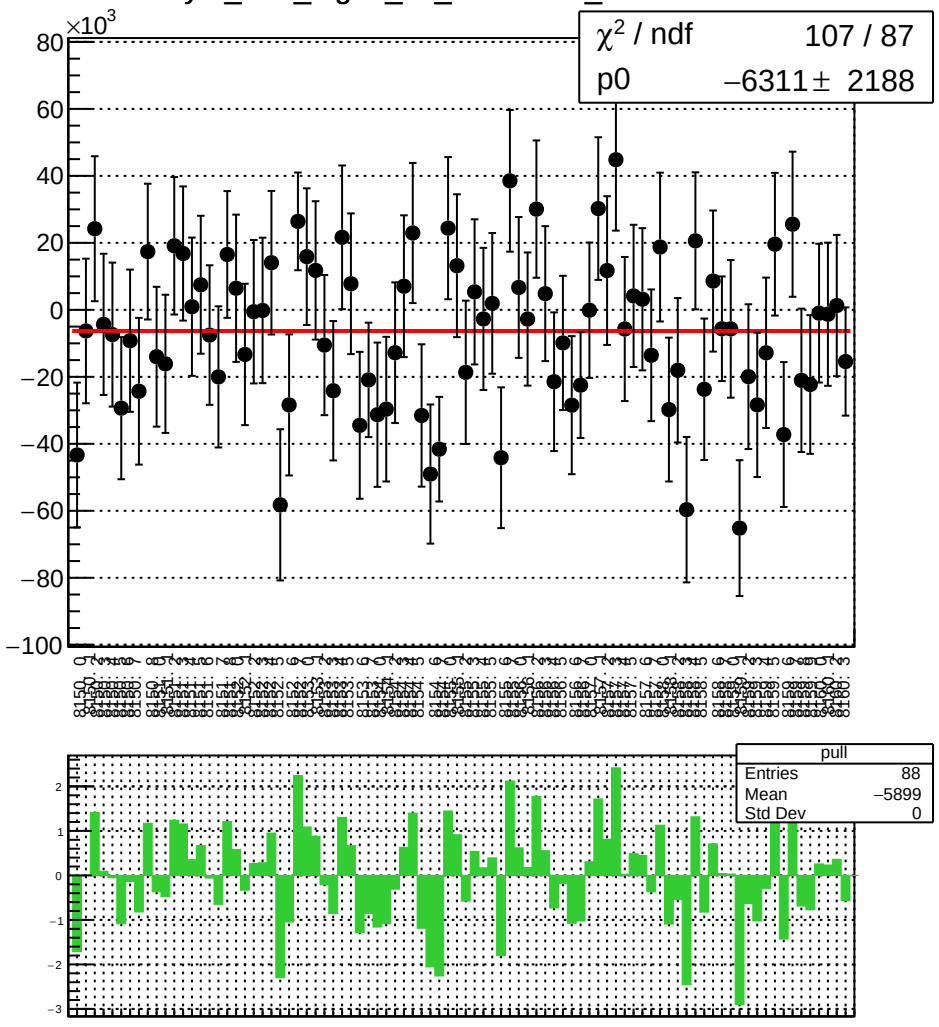

pull1D
Entries 88
Mean 0.0002947
Std Dev 1.103

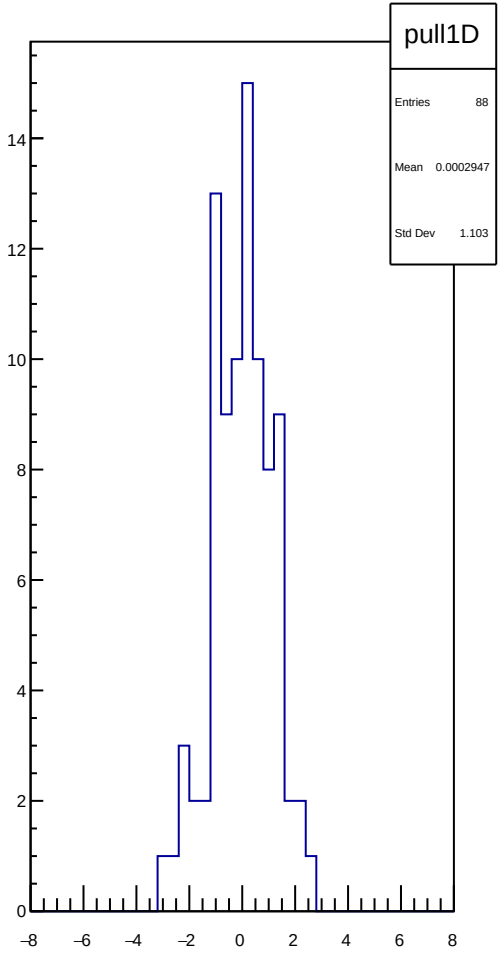

asym_atr1_dit_correction_rms vs run
χ² / ndf 1061 / 87
p0 2003 ± 1.547
2150
2100
2050
2000
1950
1900
1850

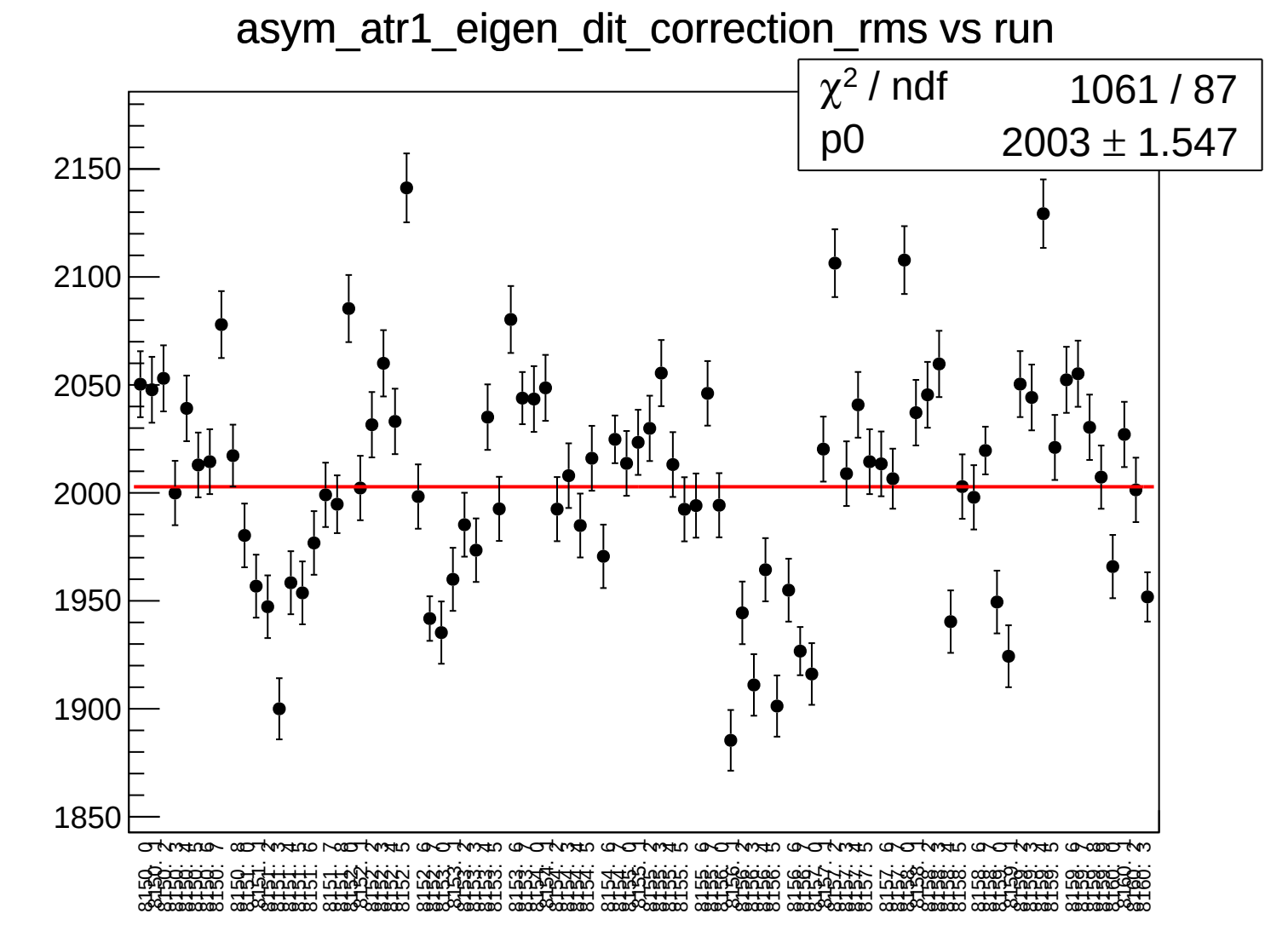

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 63.48 / 87
p0 −5140 ± 3037
100
50
0
−50
−100
pull
Entries 88
Mean 139.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

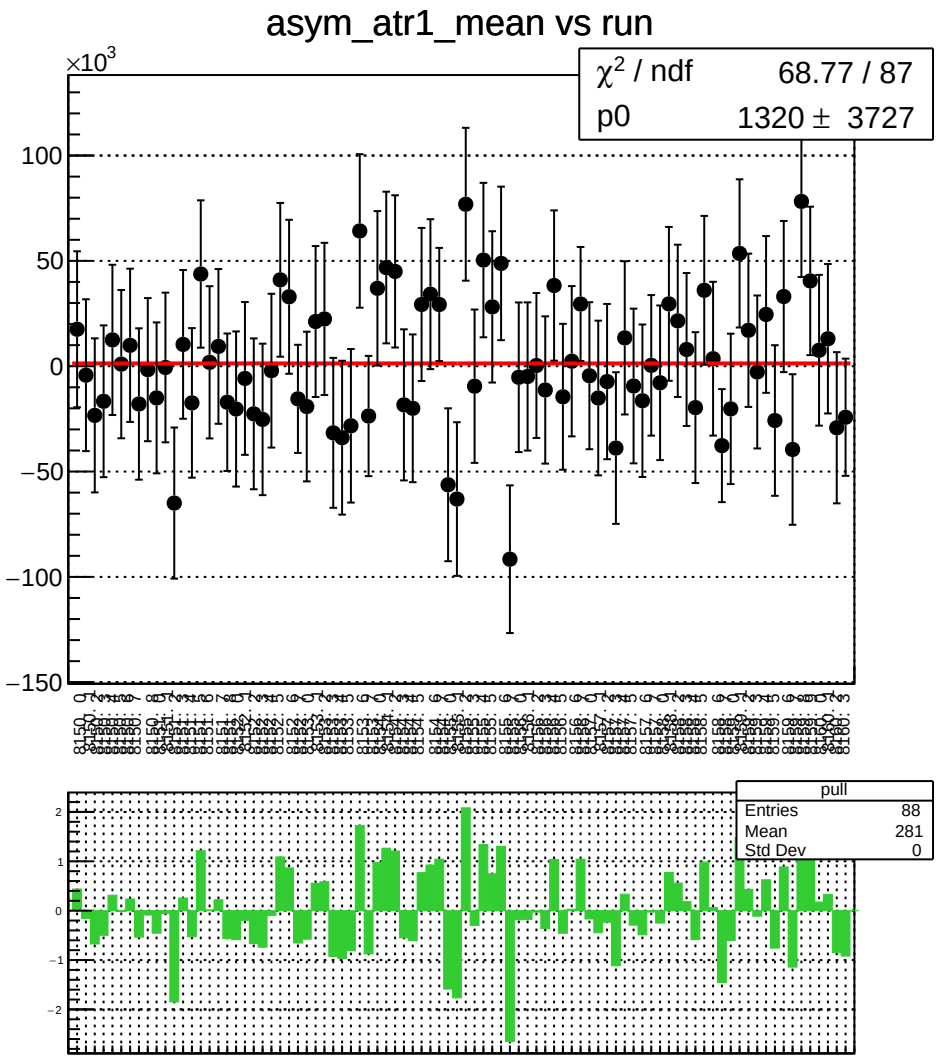

pull1D
Entries 88
Mean 0.01352
Std Dev 0.8493
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

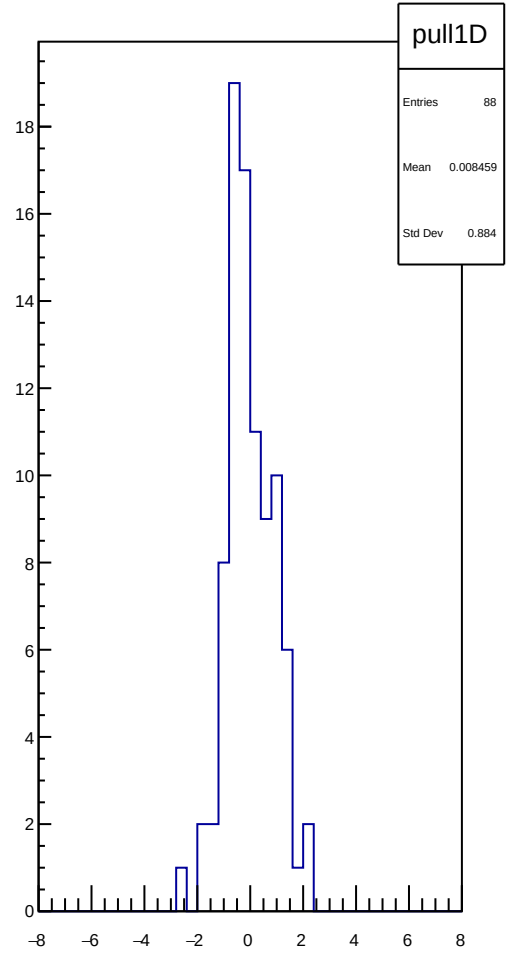

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 79.56 / 87
p0 2781 ± 2.148
2860
2840
2820
2800
2780
2760
2740
2720
2700

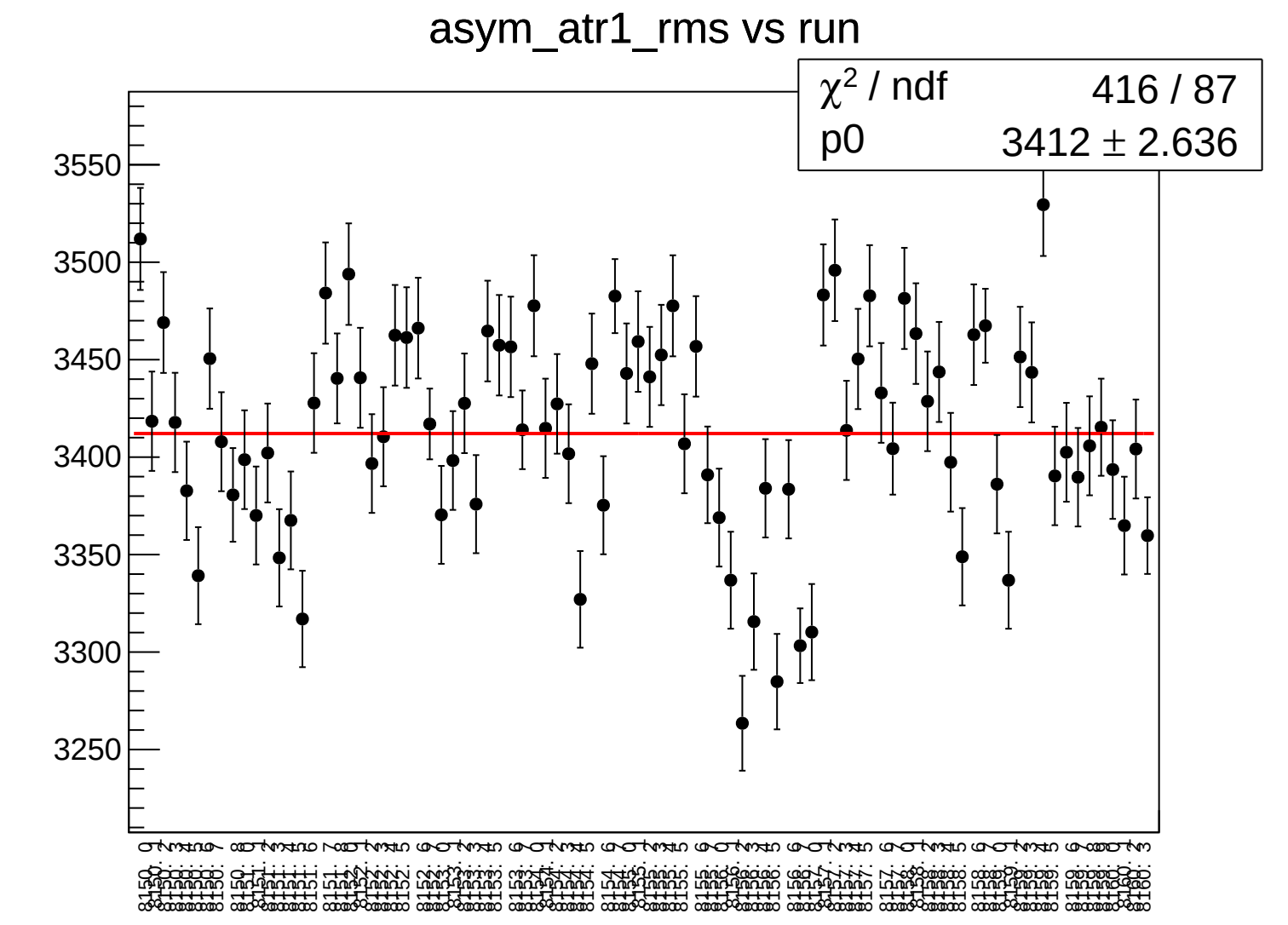

asym_atr1_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 87
p0 −6311 ± 2188
pull
Entries 88
Mean −5899
Std Dev 0

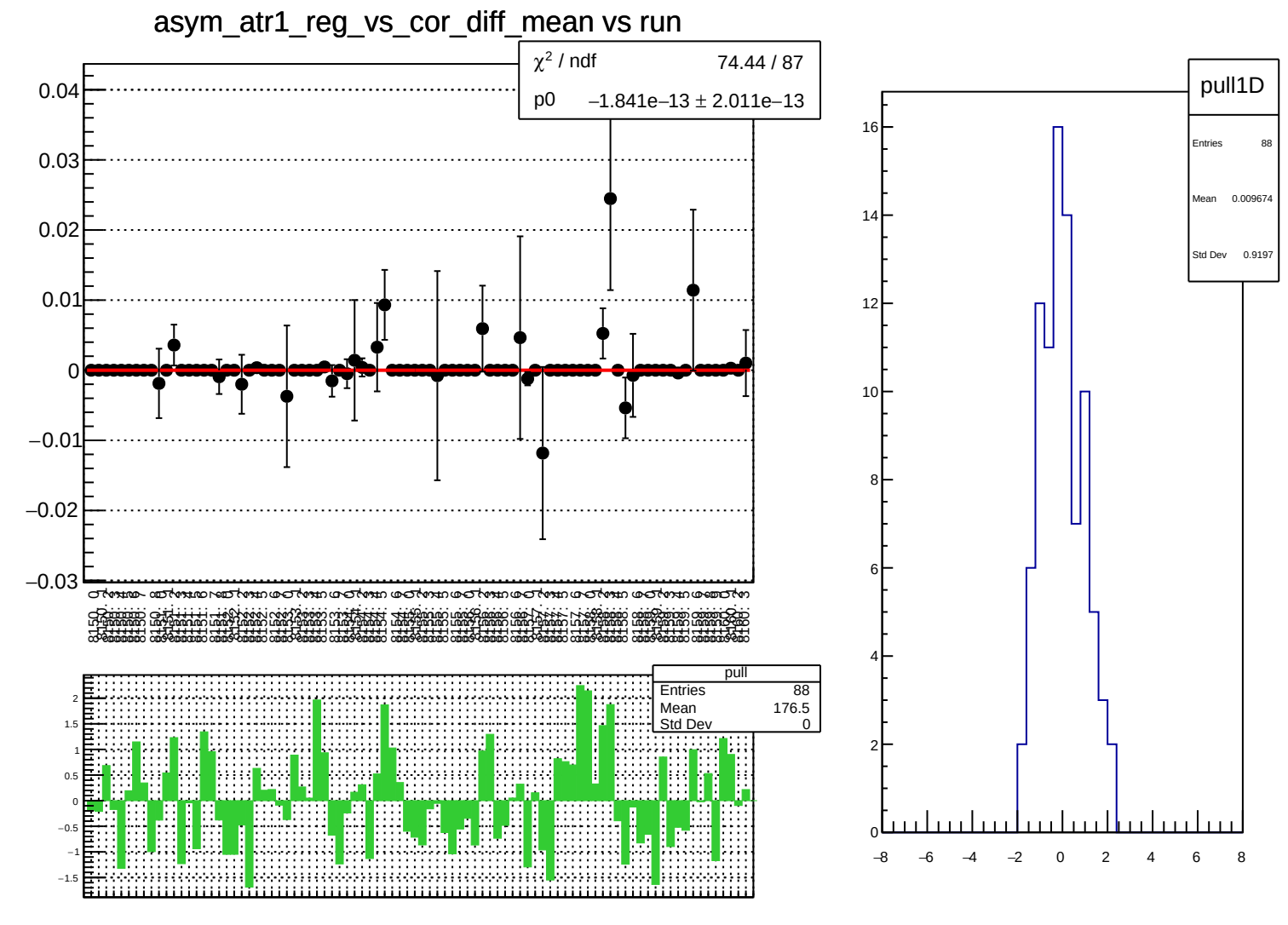

pull1D
Entries 88
Mean 0.0002947
Std Dev 1.103

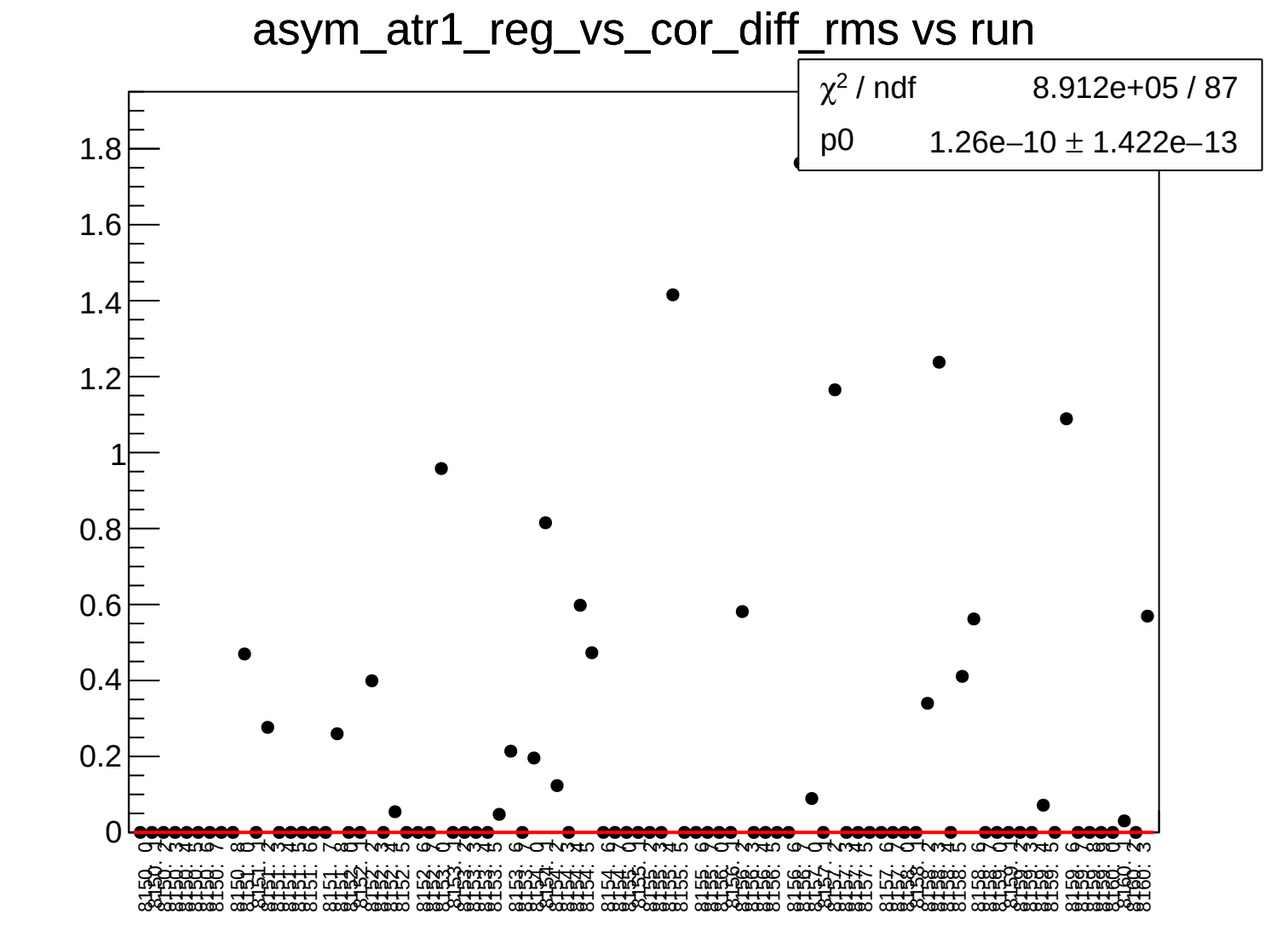

asym_atr1_eigen_dit_correction_rms vs run
χ^2 / ndf 1061 / 87
p0 2003 ± 1.547
2150
2100
2050
2000
1950
1900
1850

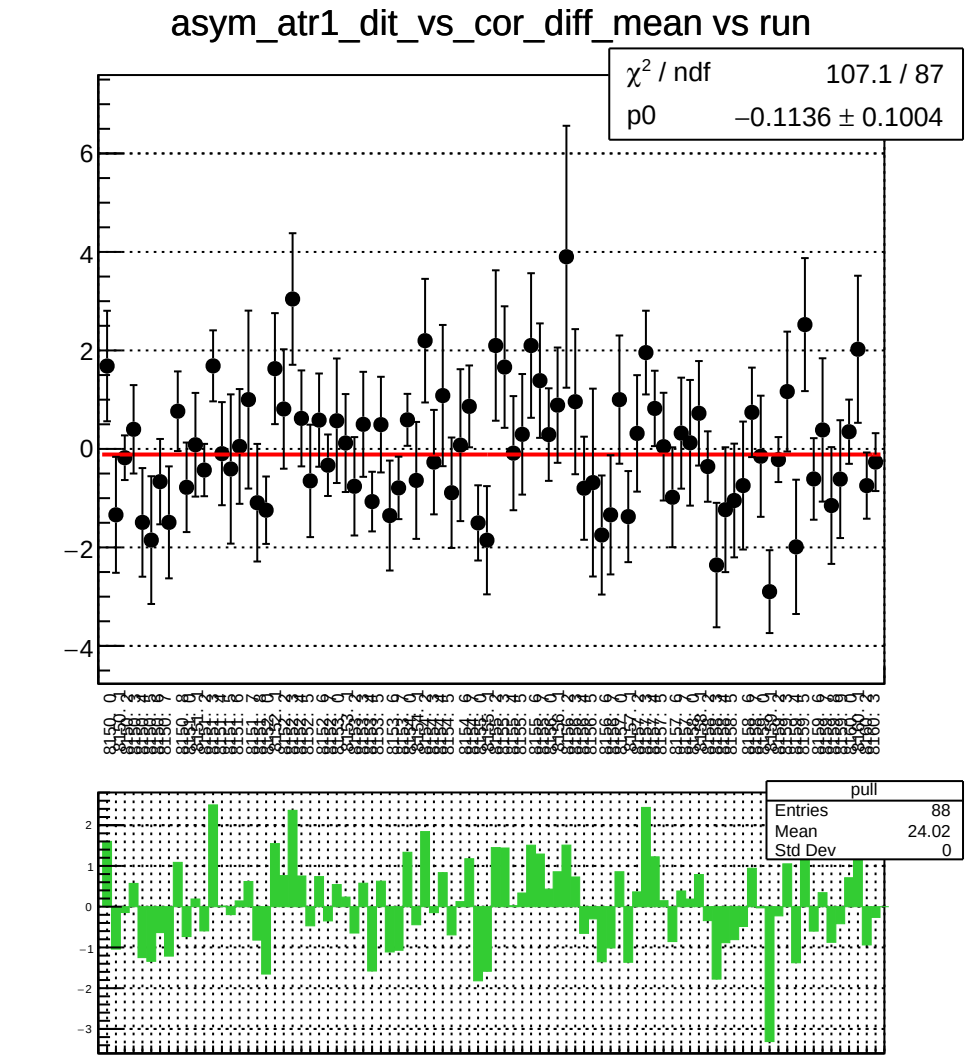

asym_atr1_mean vs run
×10^3
χ² / ndf 68.77 / 87
p0 1320 ± 3727
100
50
0
−50
−100
−150
pull
Entries 88
Mean 281
Std Dev 0
2
1
0
−1
−2

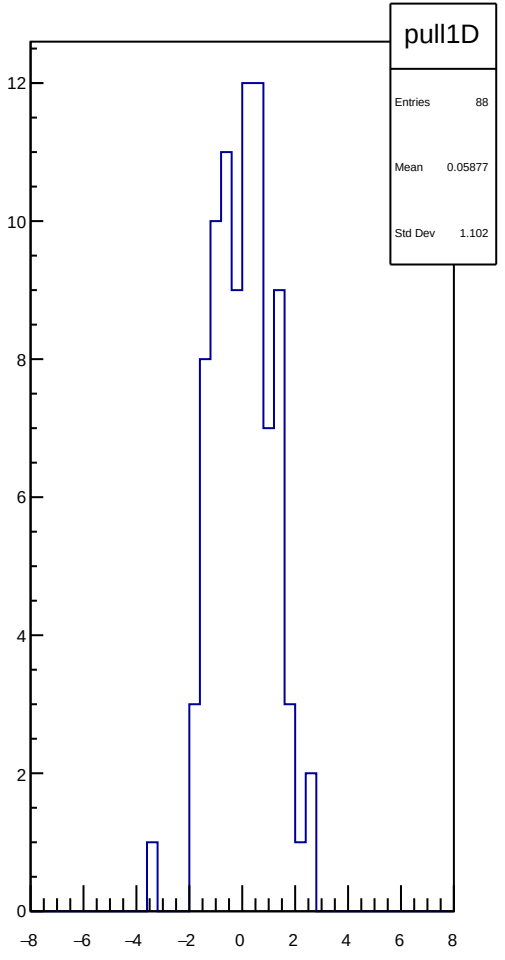

pull1D
Entries 88
Mean 0.008459
Std Dev 0.884
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

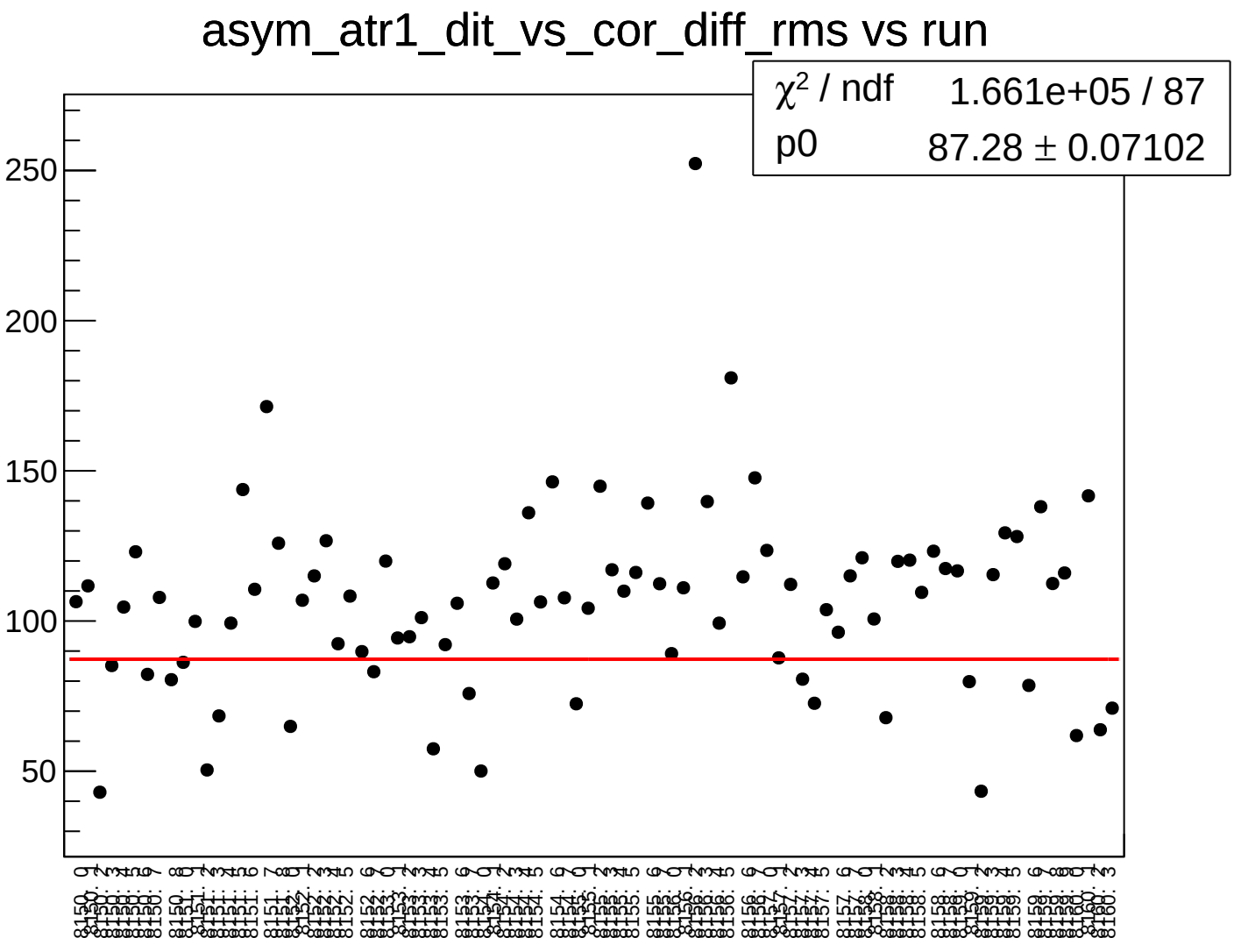

asym_atr1_rms vs run
χ^2 / ndf 416 / 87
p0 3412 ± 2.636
3550
3500
3450
3400
3350
3300
3250

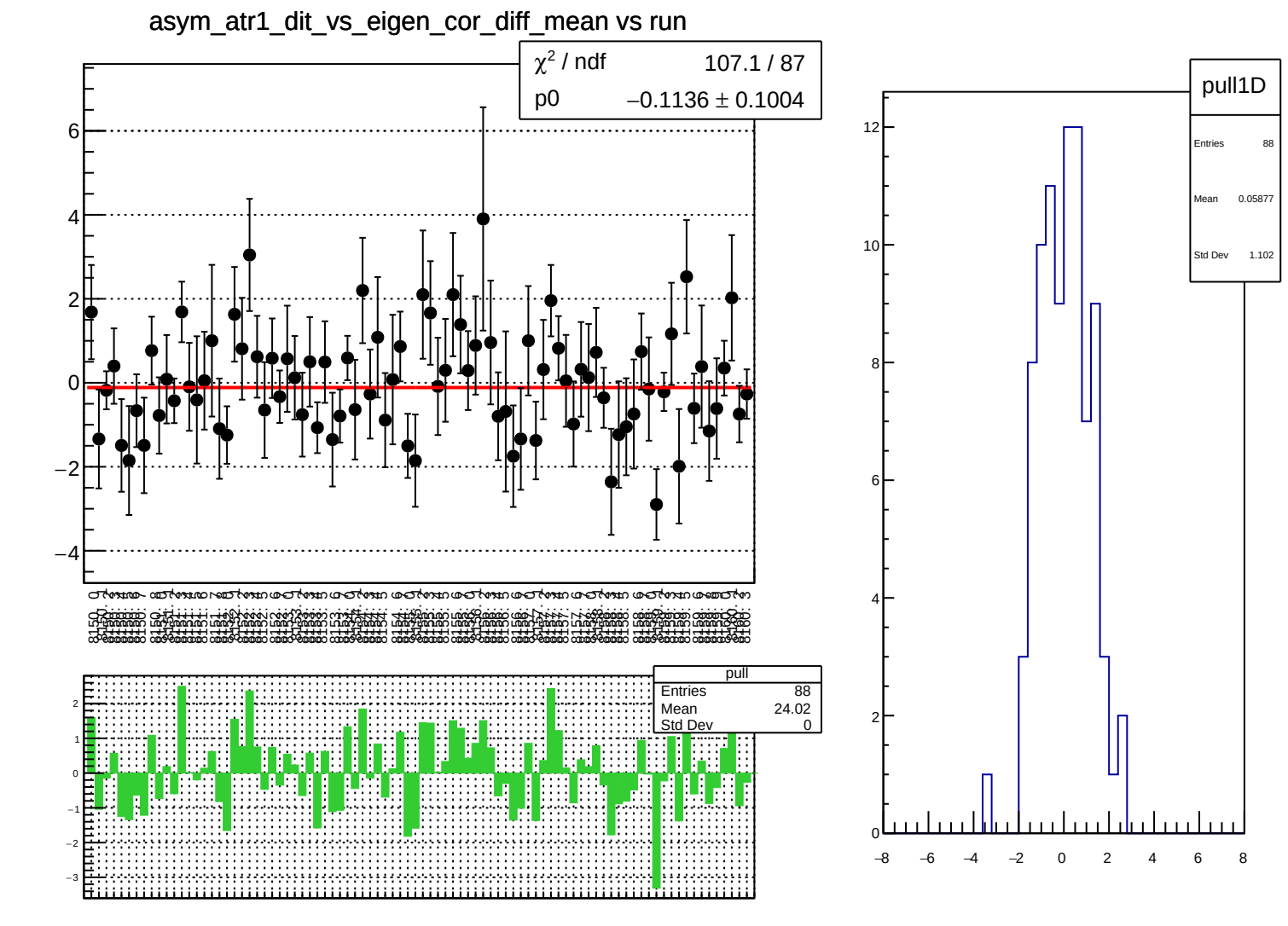

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 74.44 / 87
p0 −1.841e−13 ± 2.011e−13
pull
Entries 88
Mean 176.5
Std Dev 0
pull1D
Entries 88
Mean 0.009674
Std Dev 0.9197

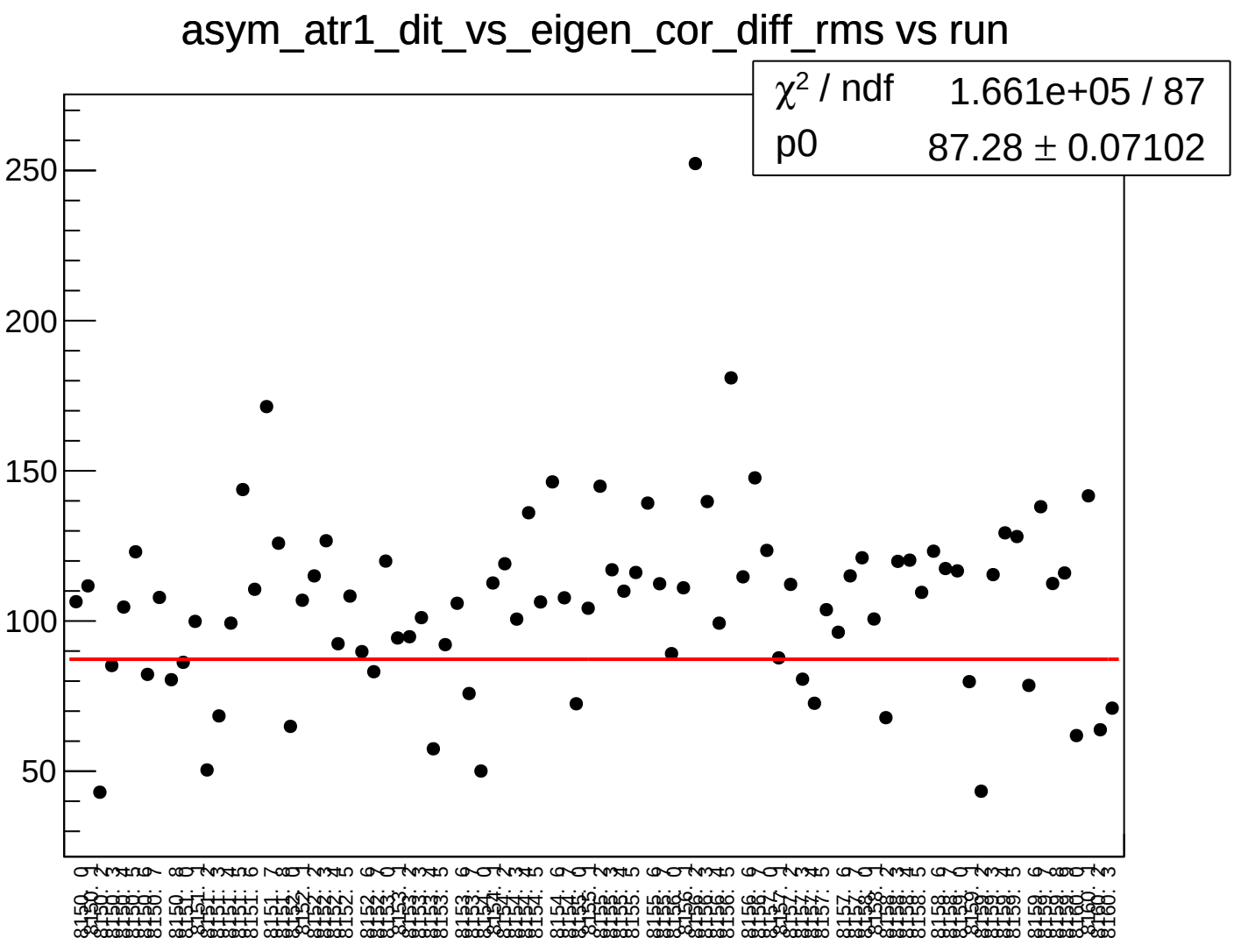

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 8.912e+05 / 87
p0 1.26e−10 ± 1.422e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

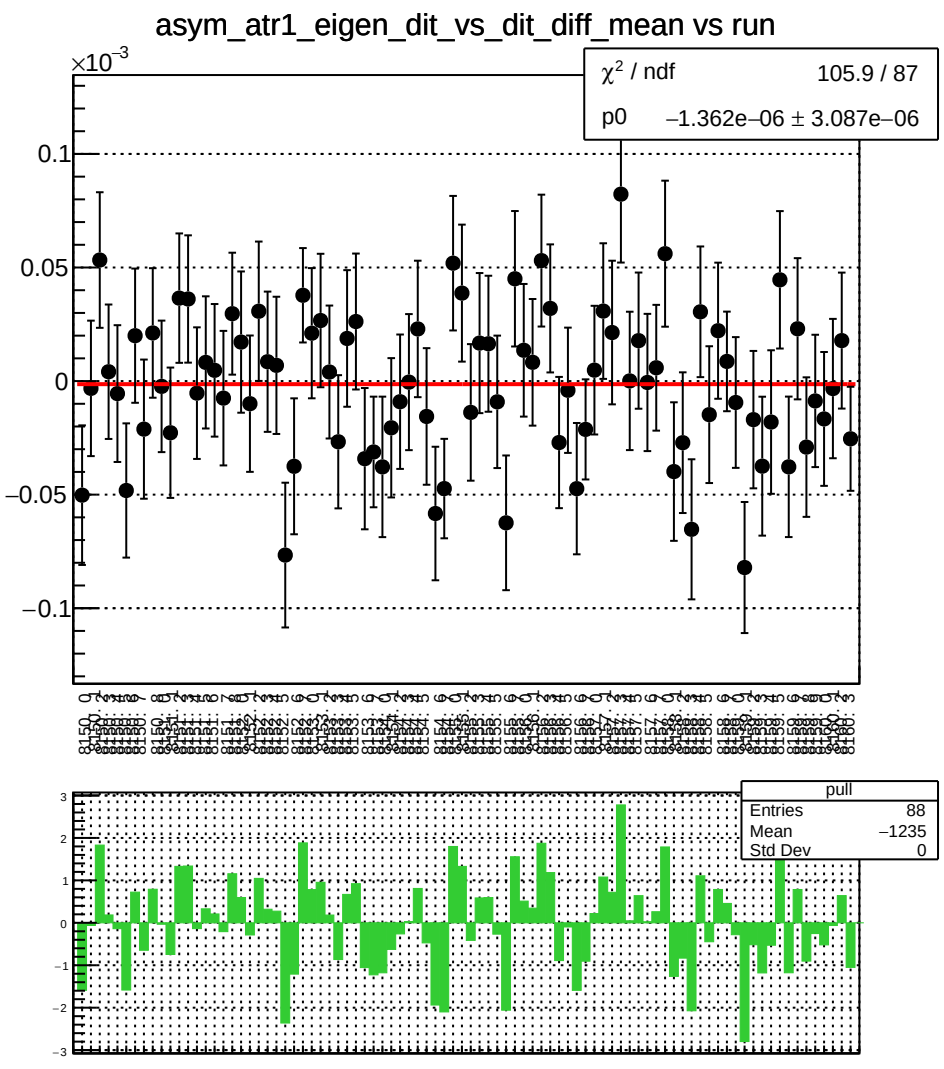

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 107.1 / 87
p0 −0.1136 ± 0.1004
pull
Entries 88
Mean 24.02
Std Dev 0

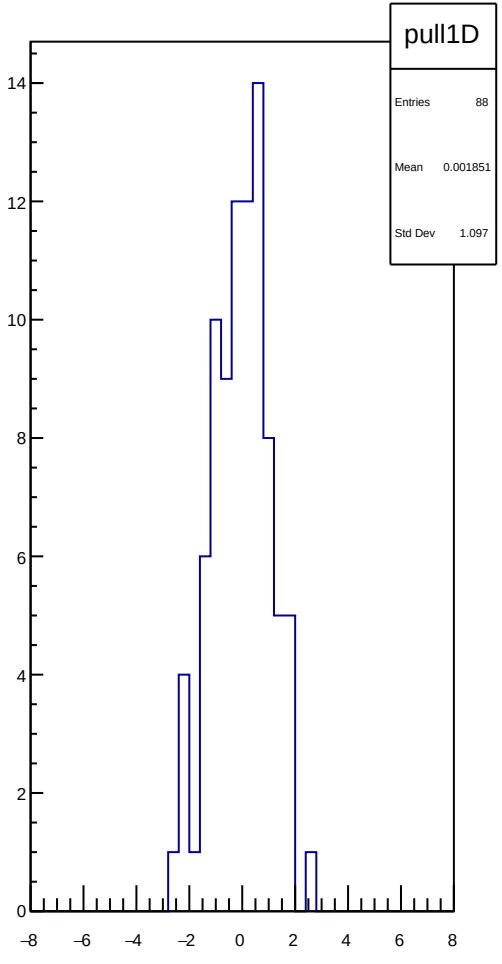

pull1D
Entries 88
Mean 0.05877
Std Dev 1.102

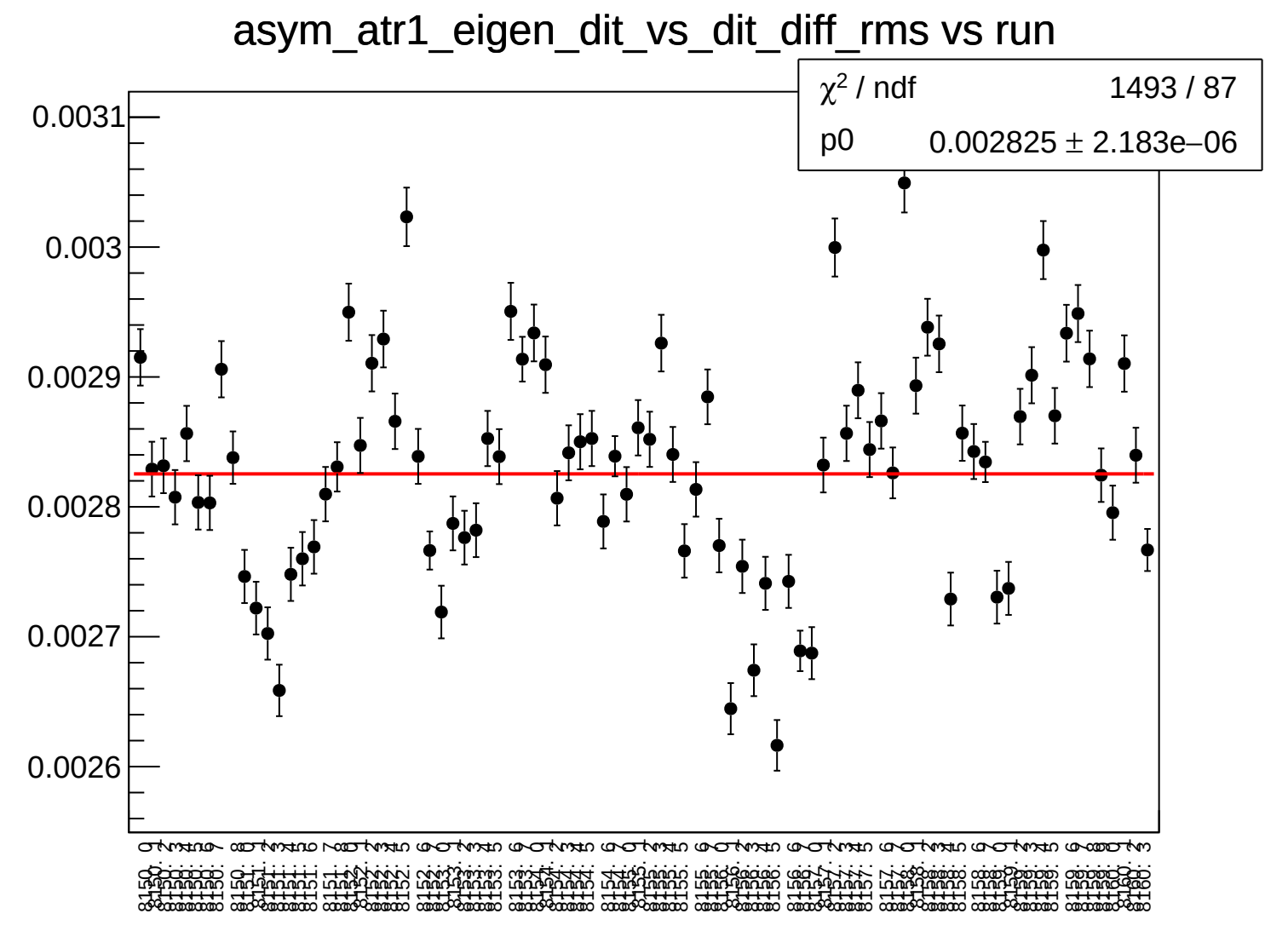

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.661e+05 / 87
p0 87.28 ± 0.07102
250
200
150
100
50

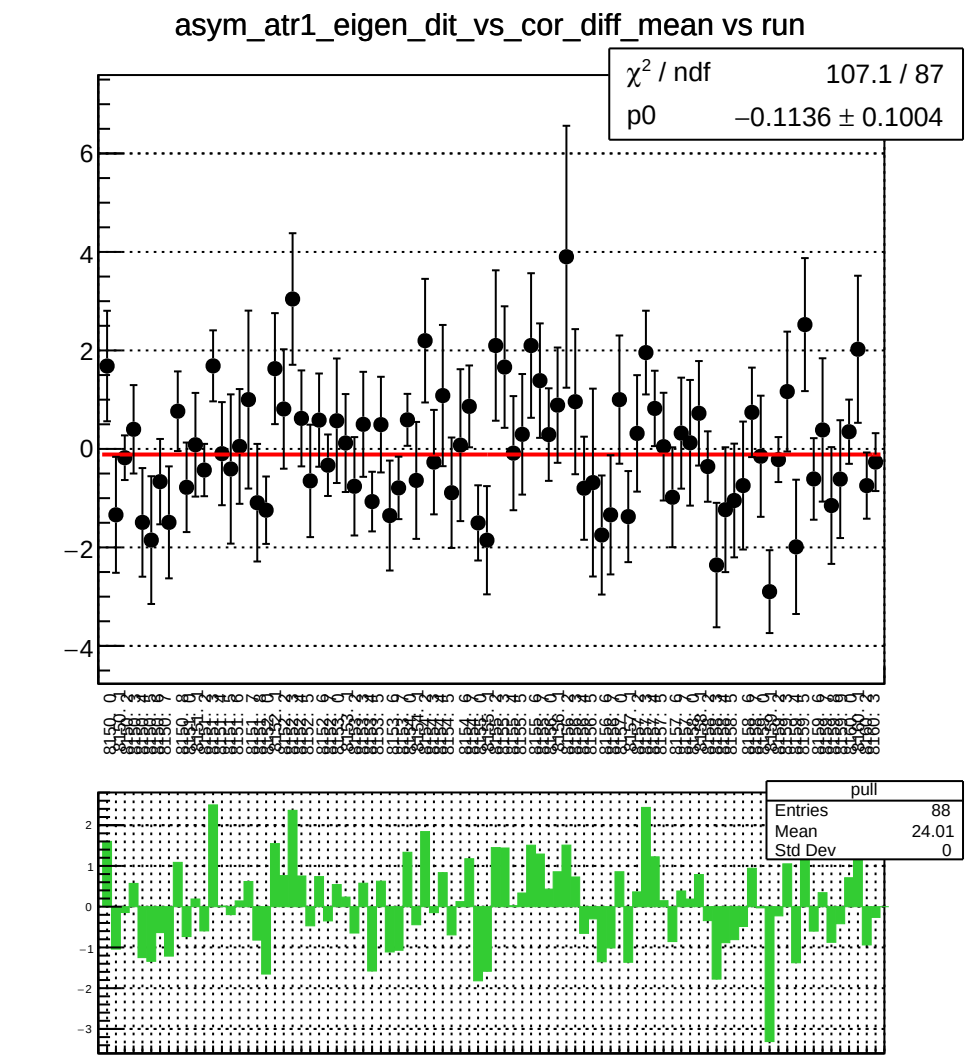

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.1 / 87
p0 −0.1136 ± 0.1004
pull
Entries 88
Mean 24.02
Std Dev 0
pull1D
Entries 88
Mean 0.05877
Std Dev 1.102

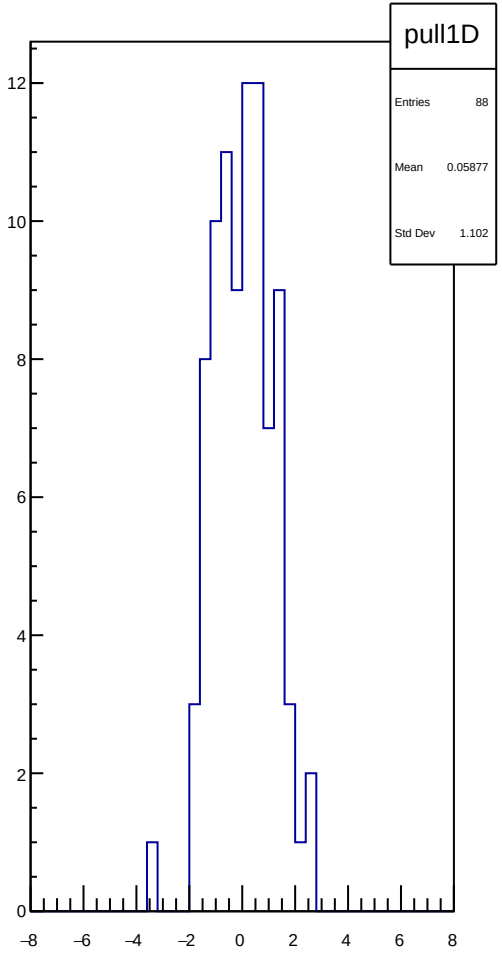

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.661e+05 / 87
p0 87.28 ± 0.07102
250
200
150
100
50

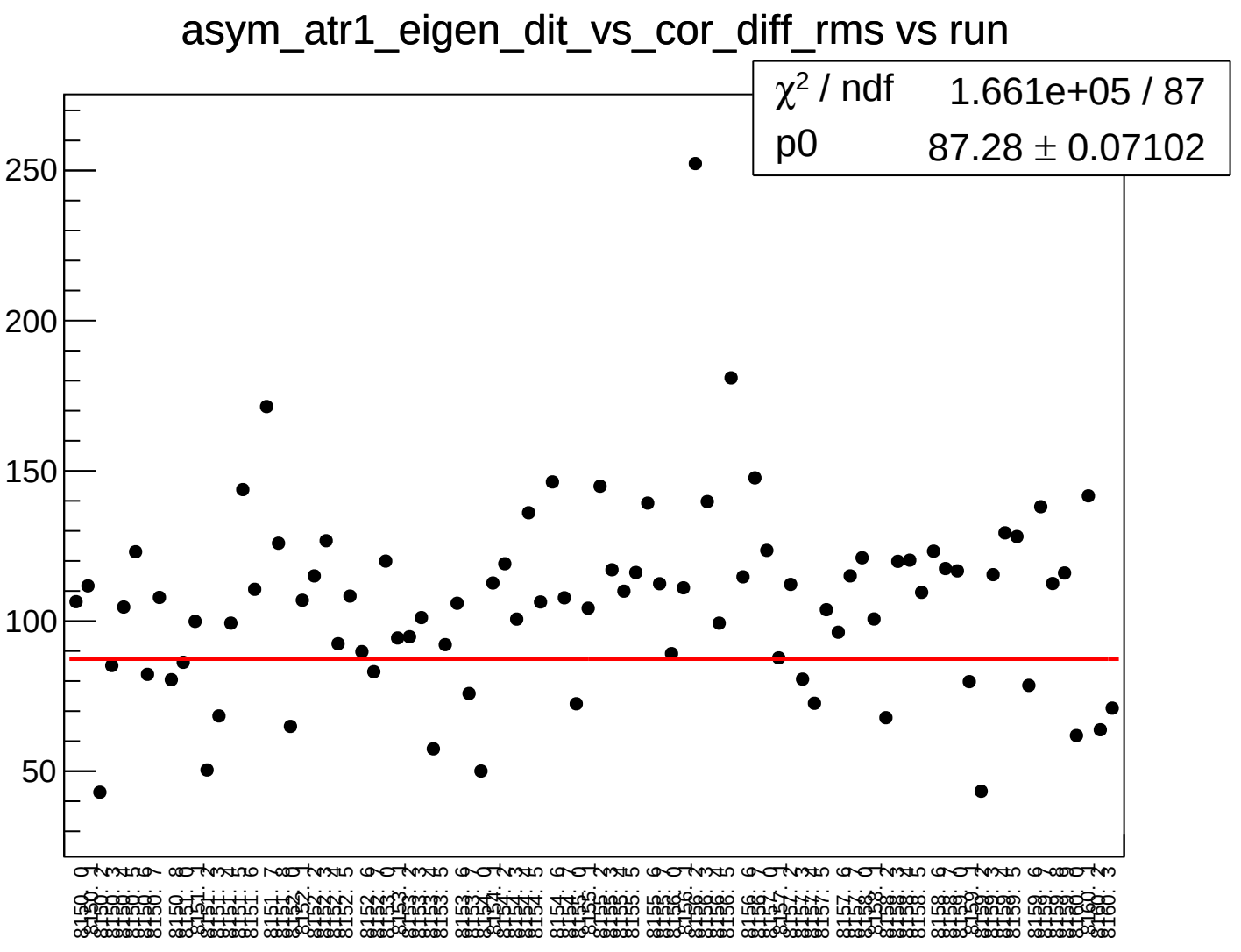

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.9 / 87
p0 −1.362e−06 ± 3.087e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −1235
Std Dev 0
3
2
1
0
−1
−2
−3

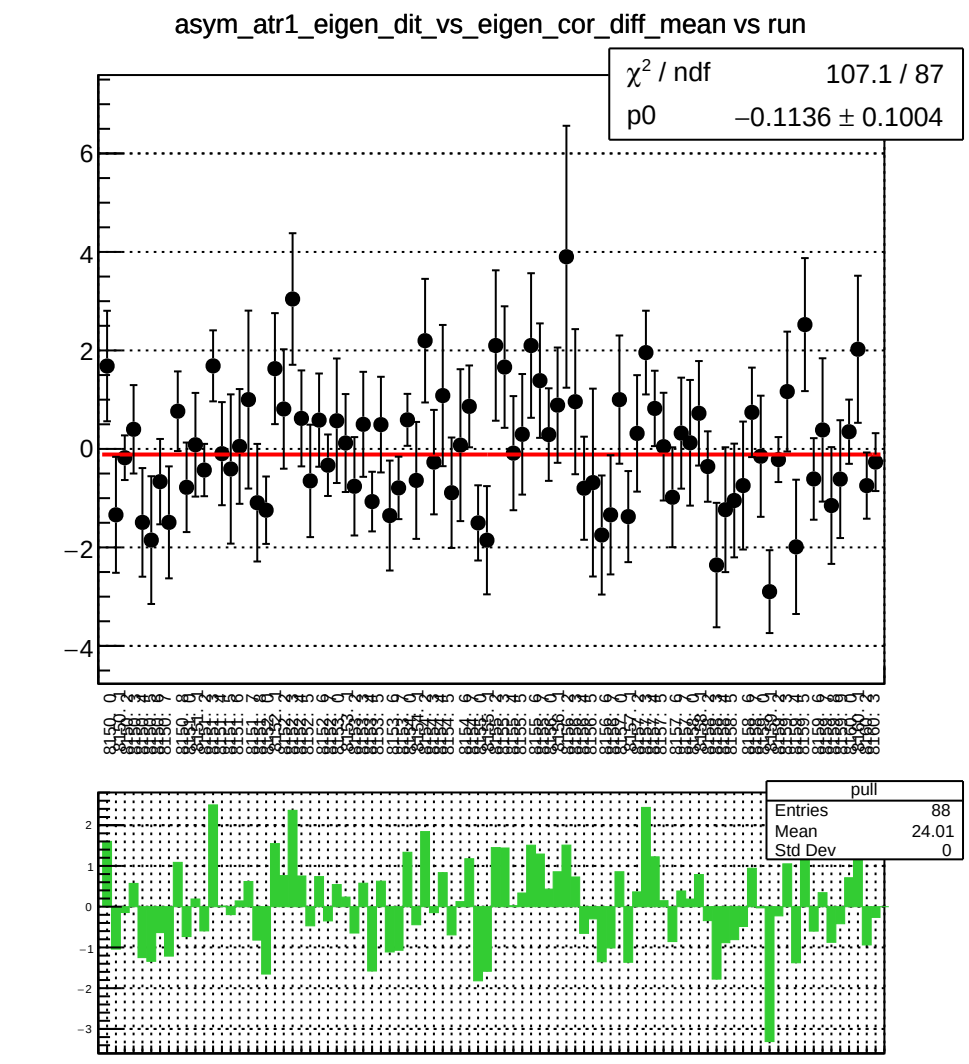

pull1D
Entries 88
Mean 0.001851
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

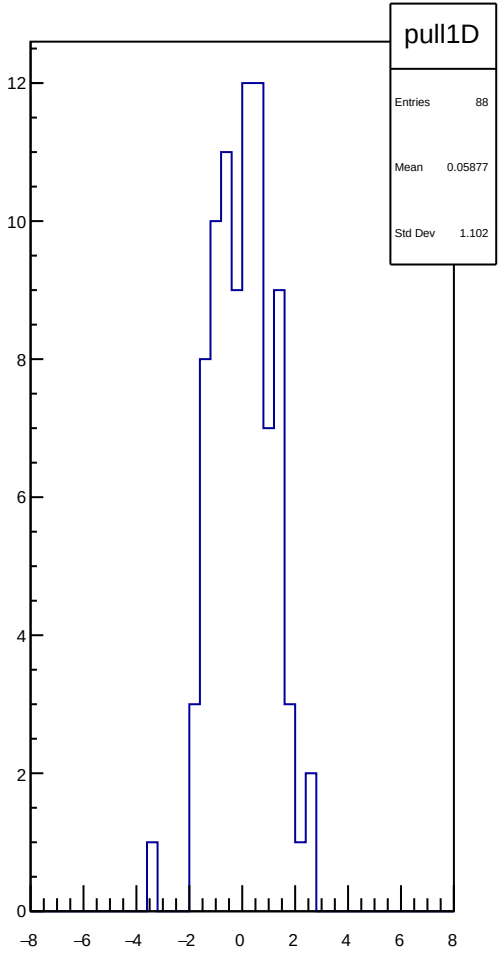

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1493 / 87
p0 0.002825 ± 2.183e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026

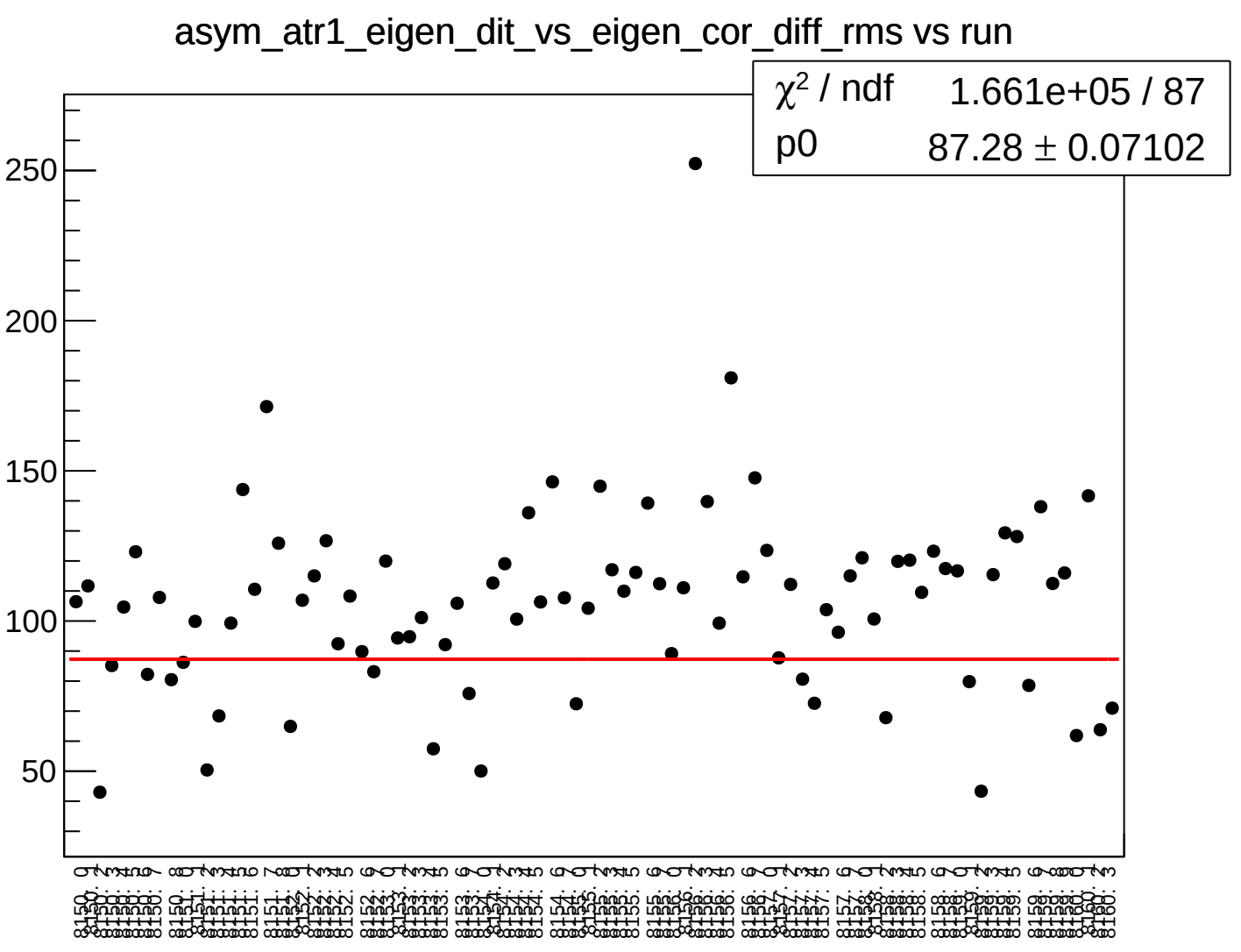

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.1 / 87
p0 −0.1136 ± 0.1004
pull
Entries 88
Mean 24.01
Std Dev 0

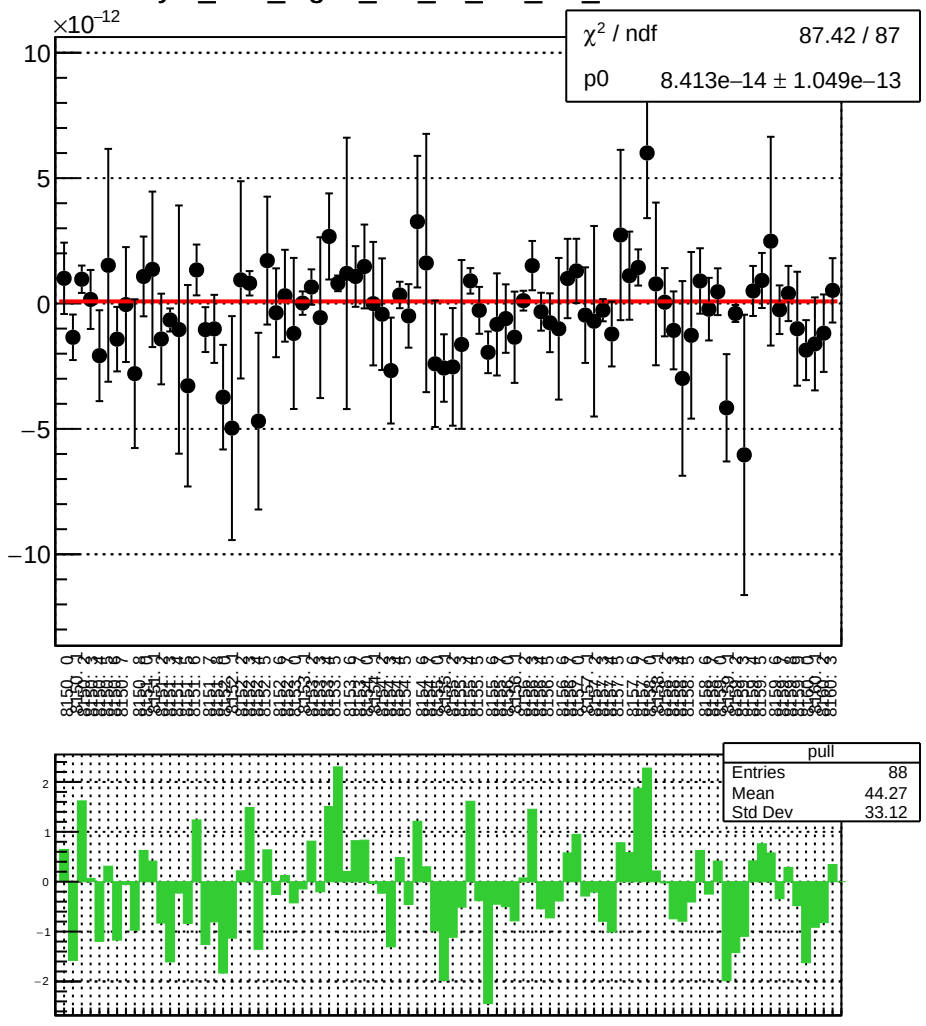

pull1D
Entries 88
Mean 0.05877
Std Dev 1.102

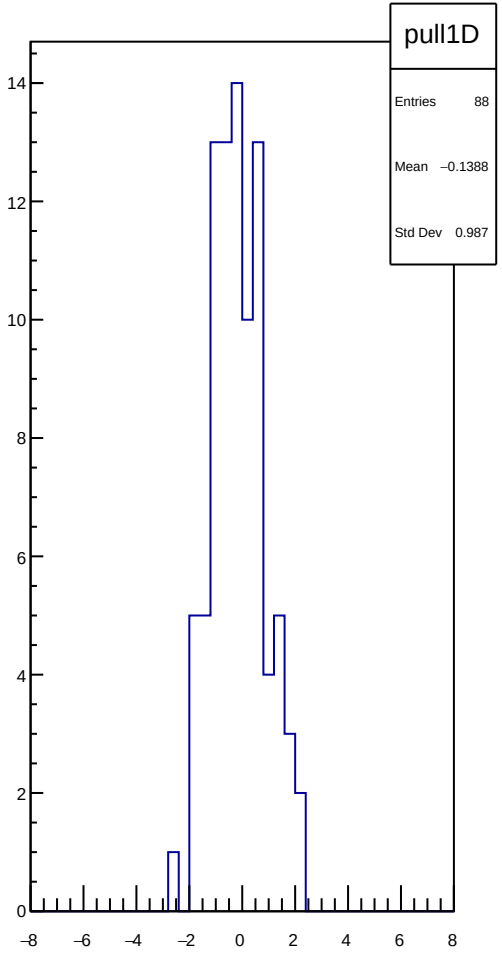

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.661e+05 / 87
p0 87.28 ± 0.07102
250
200
150
100
50

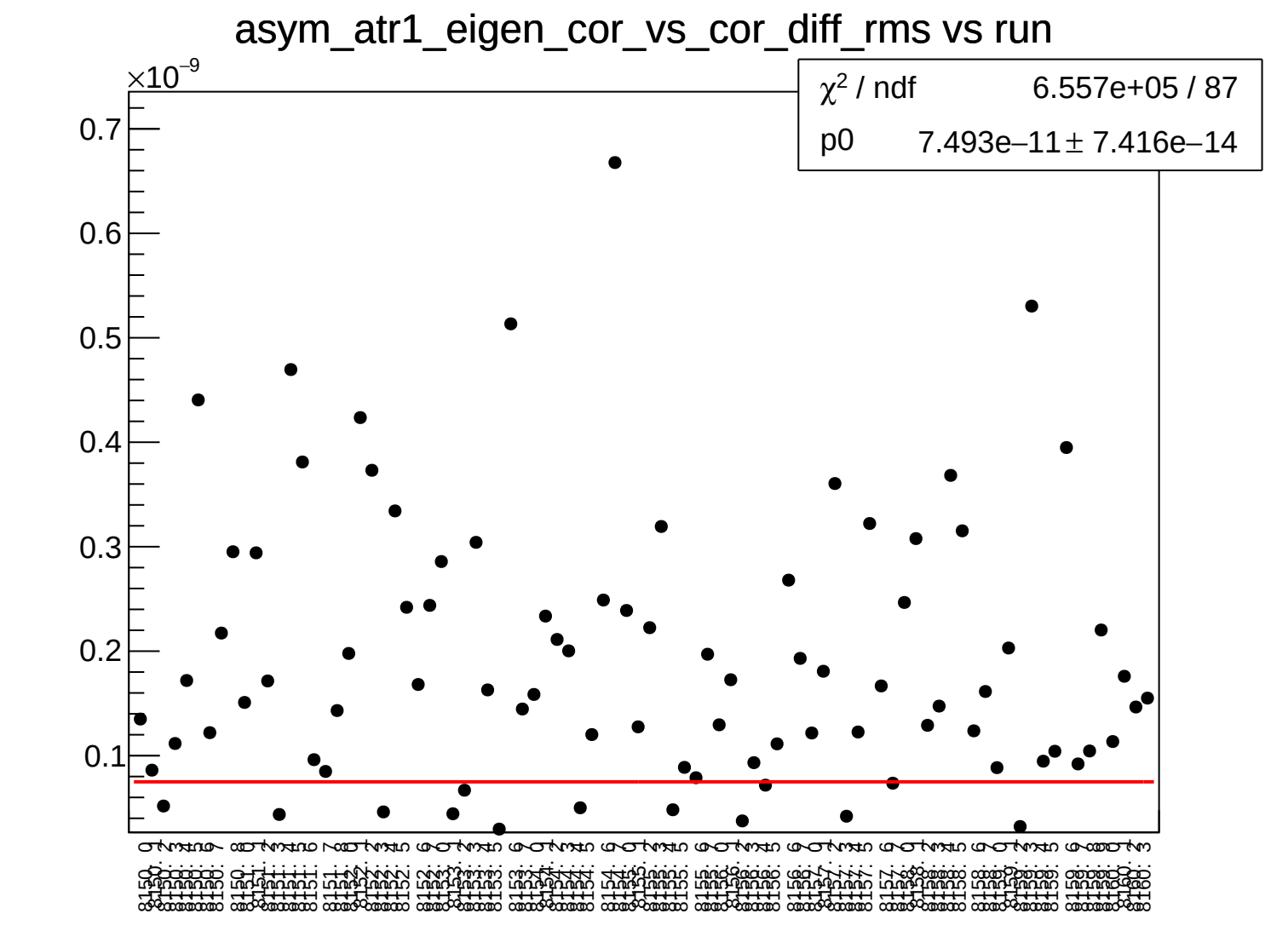

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.1 / 87
p0 −0.1136 ± 0.1004
pull
Entries 88
Mean 24.01
Std Dev 0

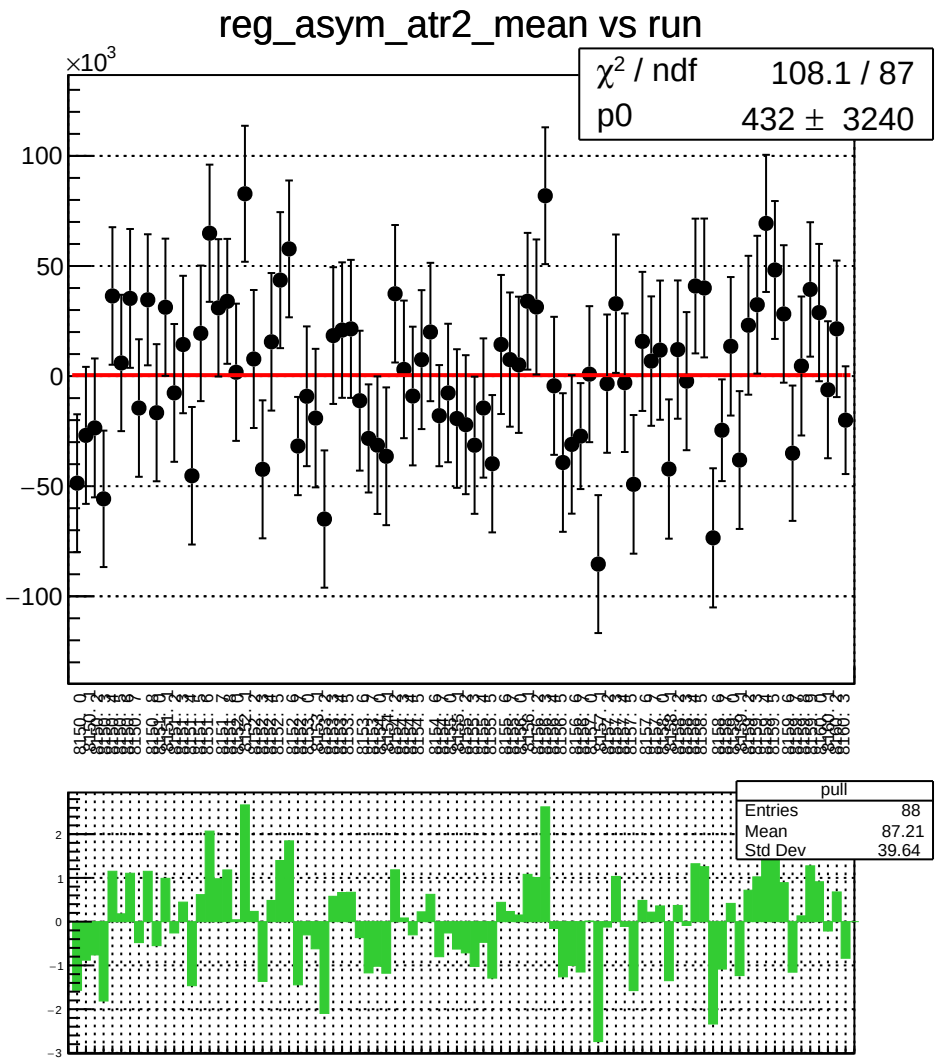

pull1D
Entries 88
Mean 0.05877
Std Dev 1.102

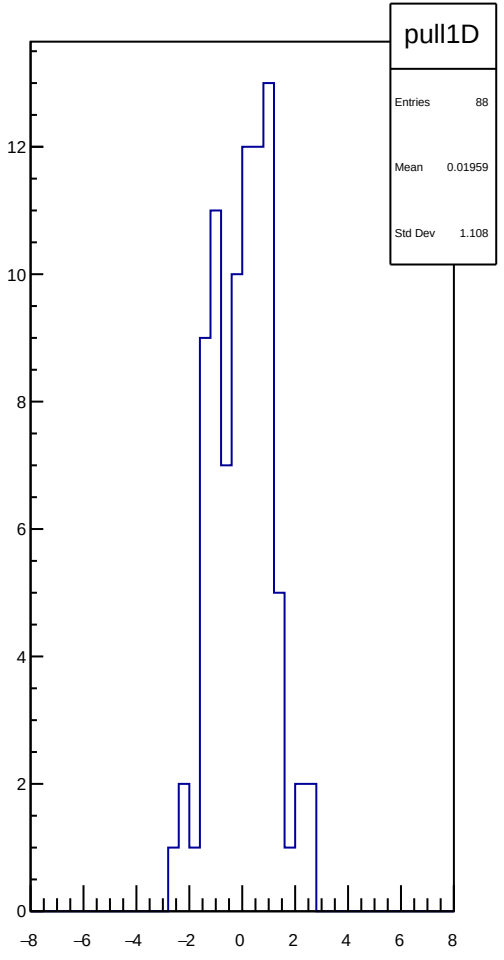

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.661e+05 / 87
p0 87.28 ± 0.07102
250
200
150
100
50

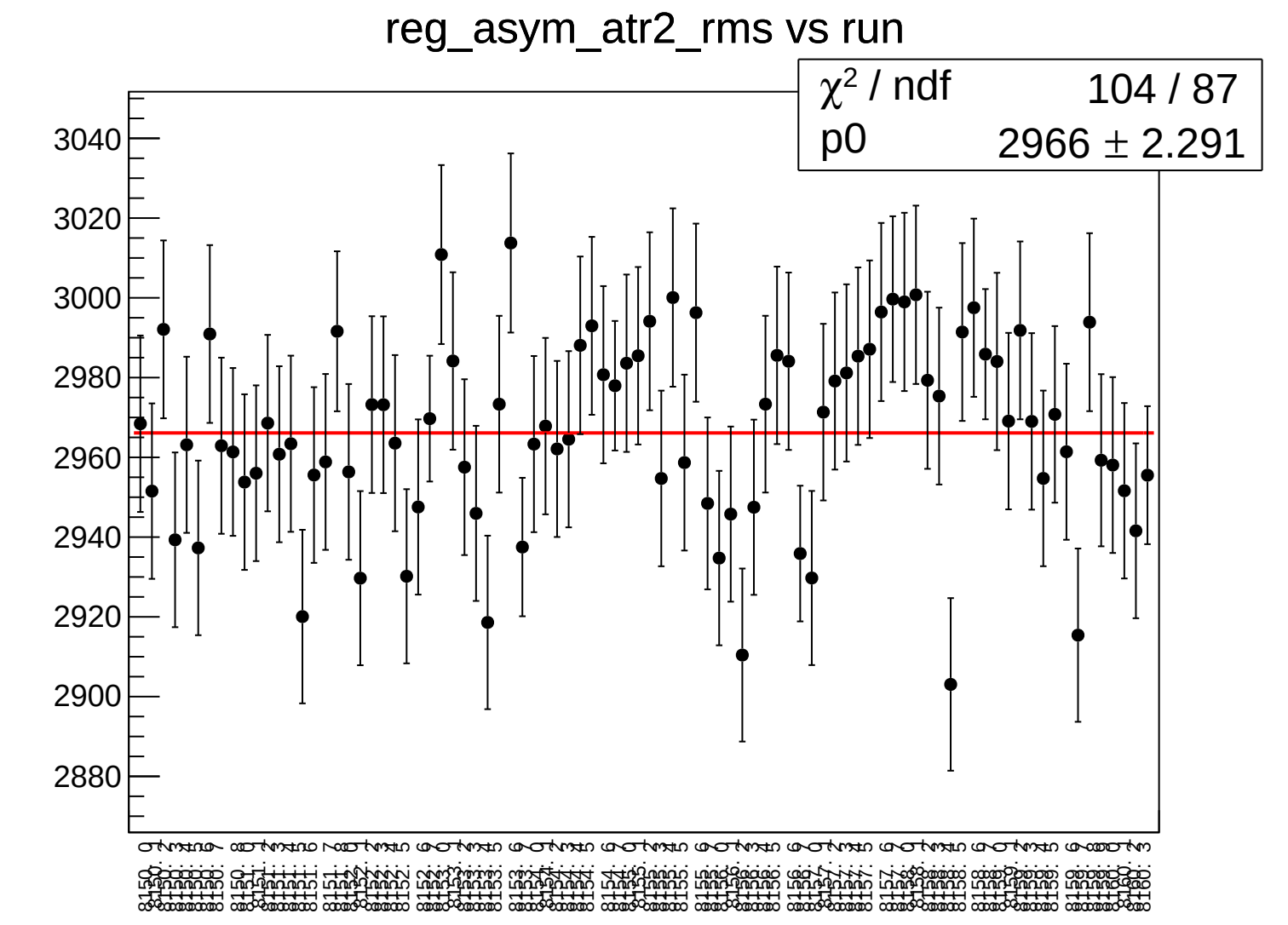

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.42 / 87
p0 8.413e−14 ± 1.049e−13
pull
Entries 88
Mean 44.27
Std Dev 33.12

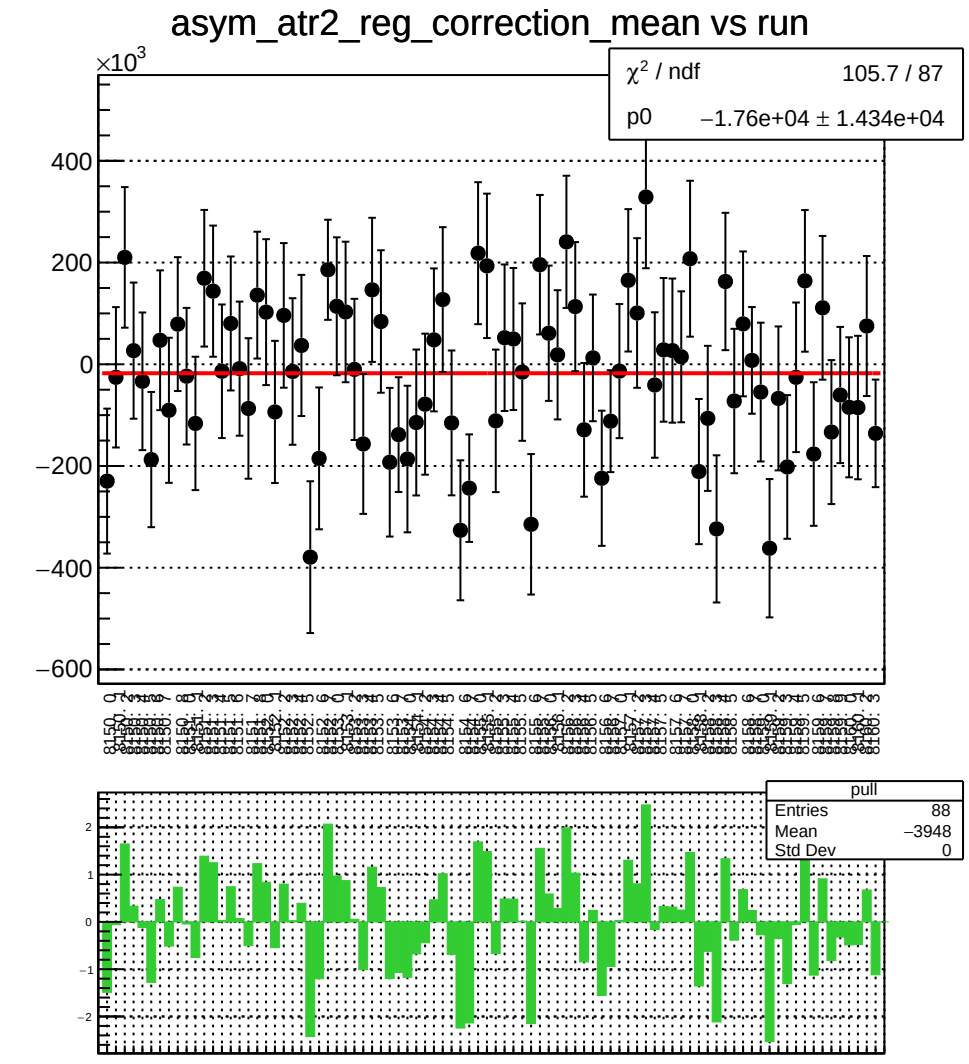

pull1D
Entries 88
Mean −0.1388
Std Dev 0.987

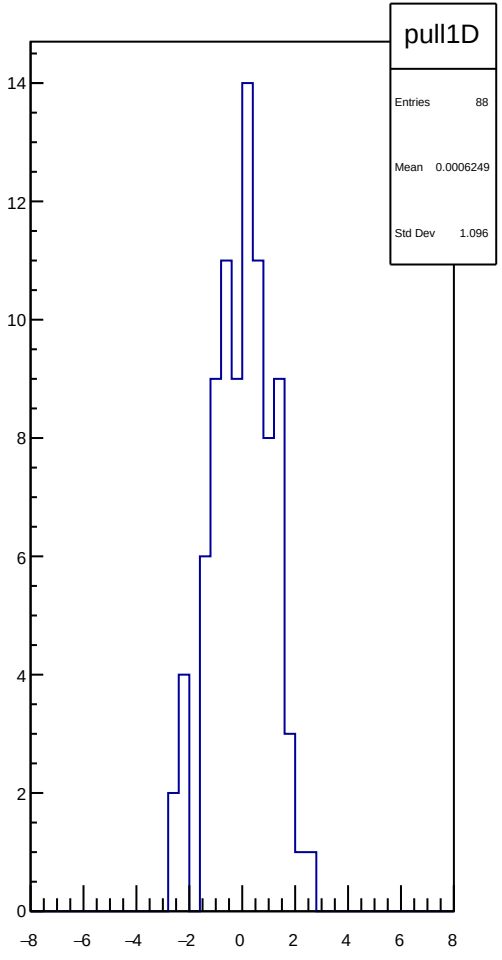

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.557e+05 / 87
p0 7.493e−11 ± 7.416e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

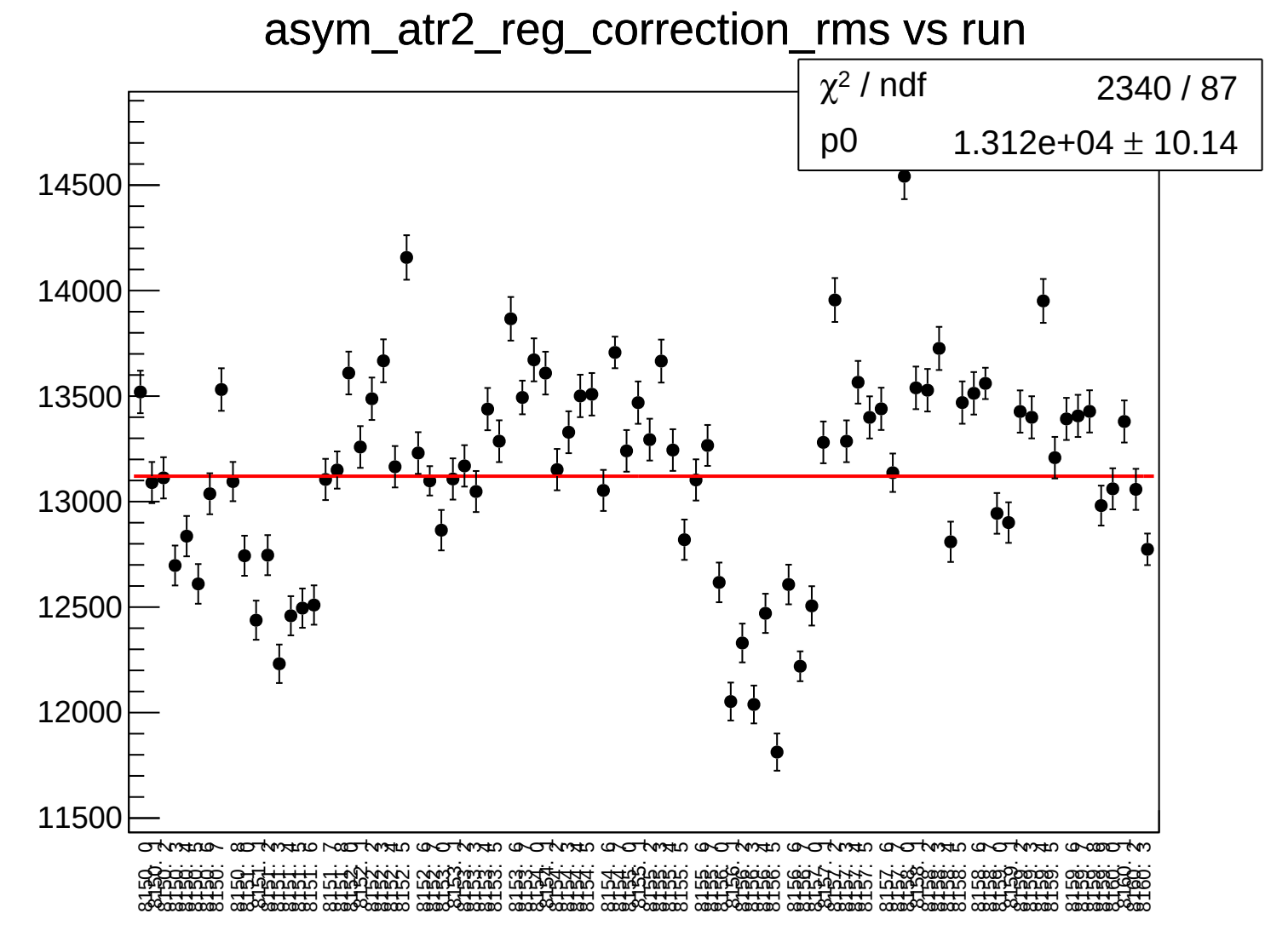

reg_asym_atr2_mean vs run
χ^2 / ndf 108.1 / 87
p0 432 ± 3240
×10^3
pull
Entries 88
Mean 87.21
Std Dev 39.64

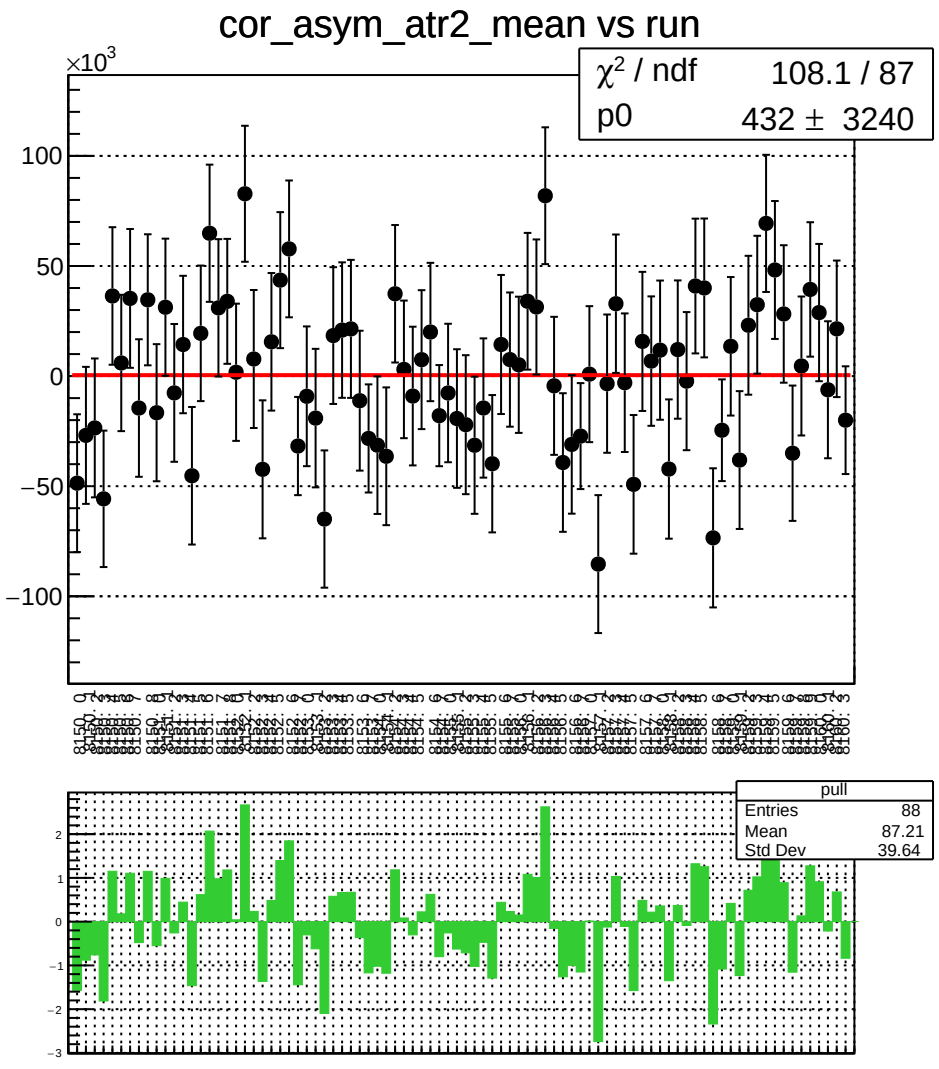

pull1D
Entries 88
Mean 0.01959
Std Dev 1.108

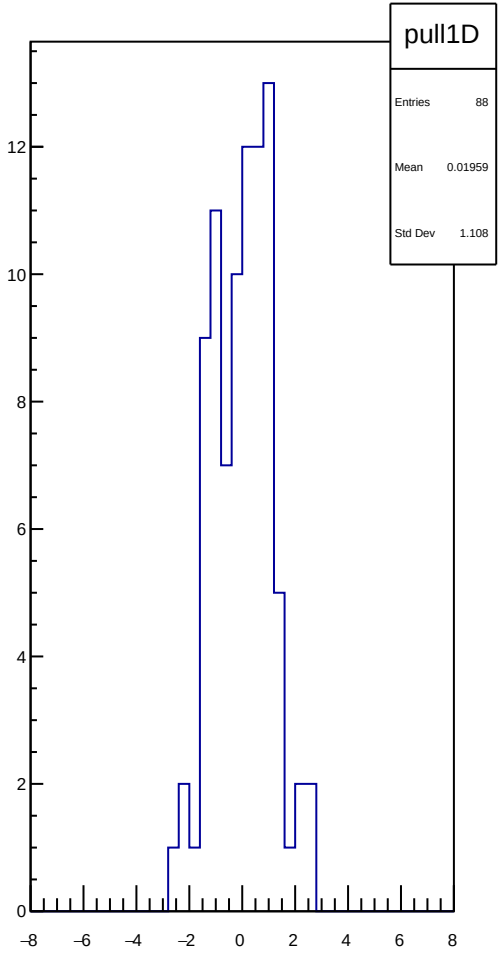

reg_asym_atr2_rms vs run
χ² / ndf 104 / 87
p0 2966 ± 2.291
3040
3020
3000
2980
2960
2940
2920
2900
2880

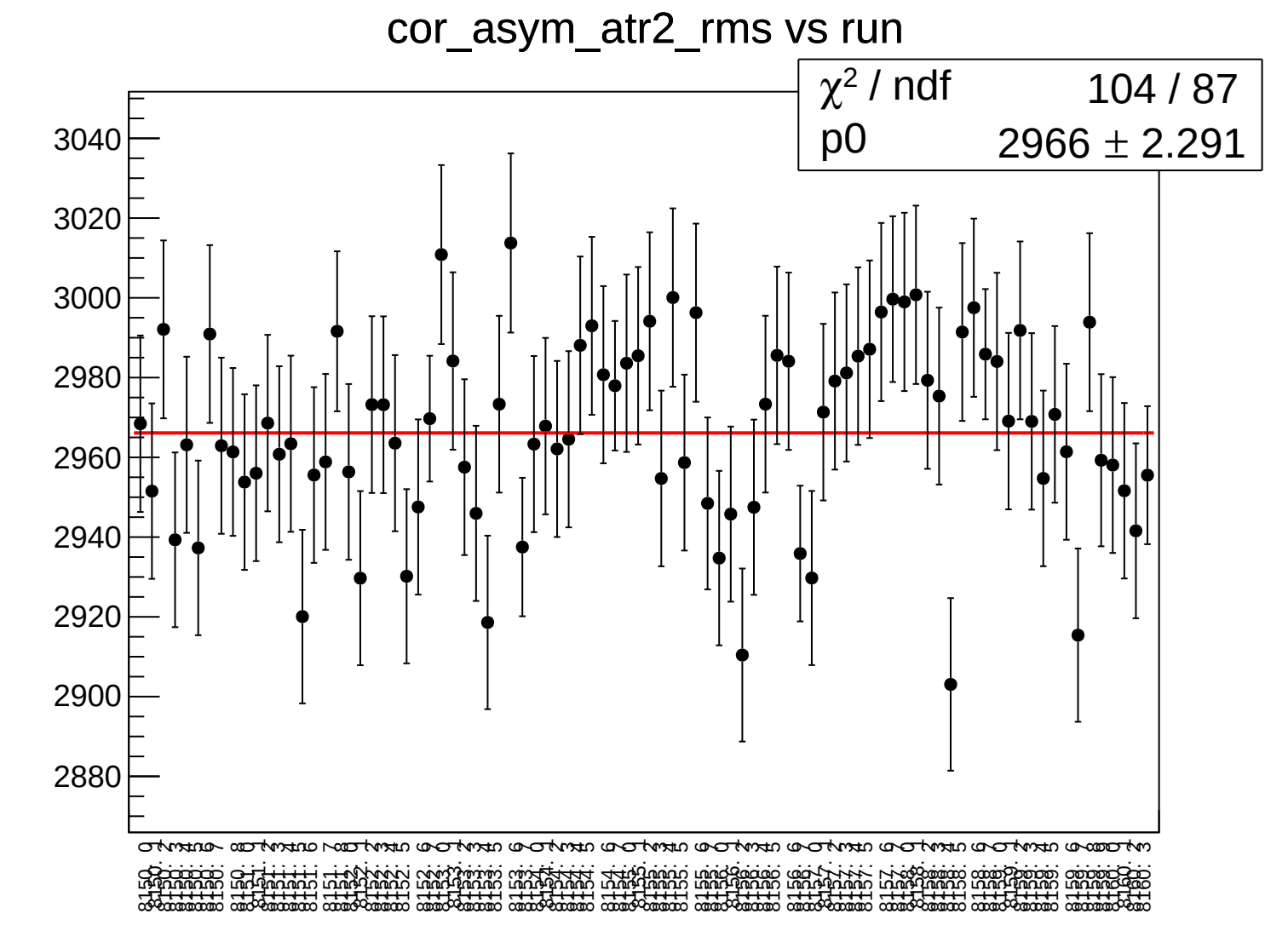

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 105.7 / 87
p0 −1.76e+04 ± 1.434e+04
400
200
0
−200
−400
−600
pull
Entries 88
Mean −3948
Std Dev 0
2
1
0
−1
−2

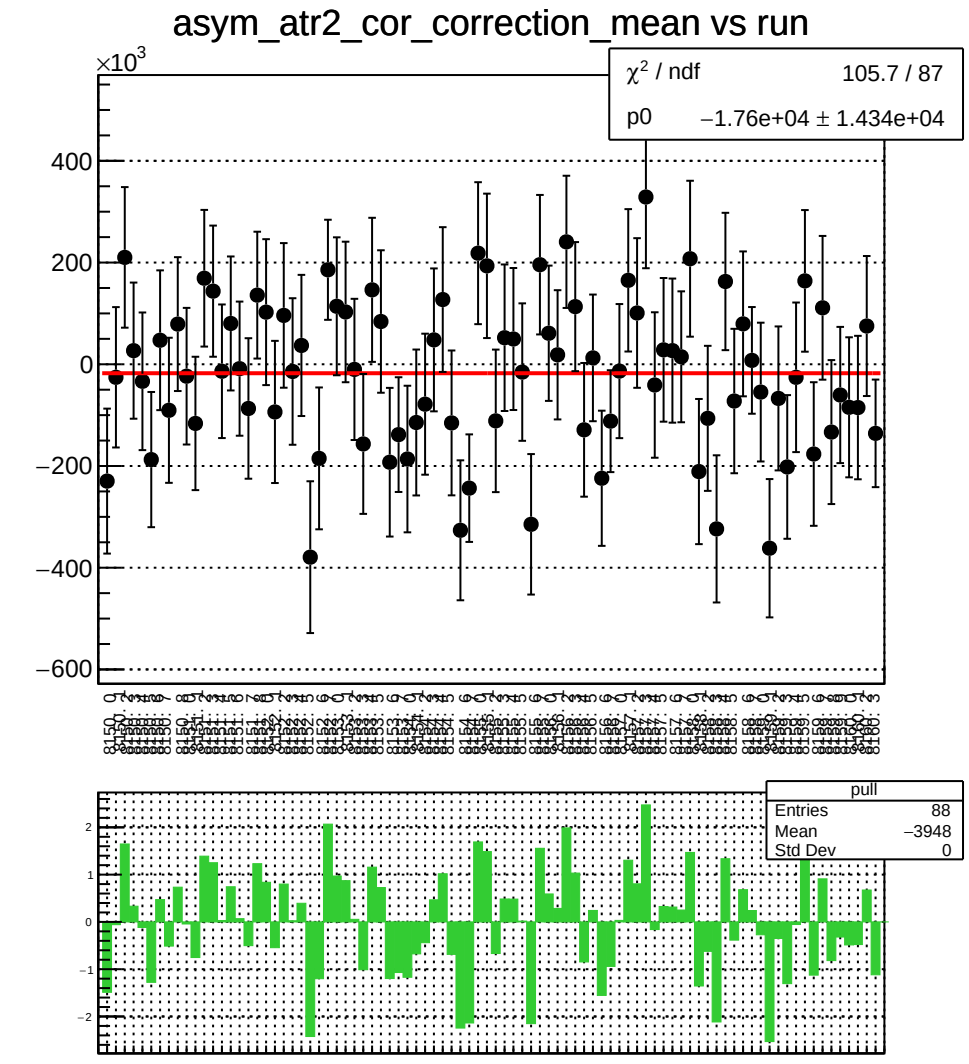

pull1D
Entries 88
Mean 0.0006249
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

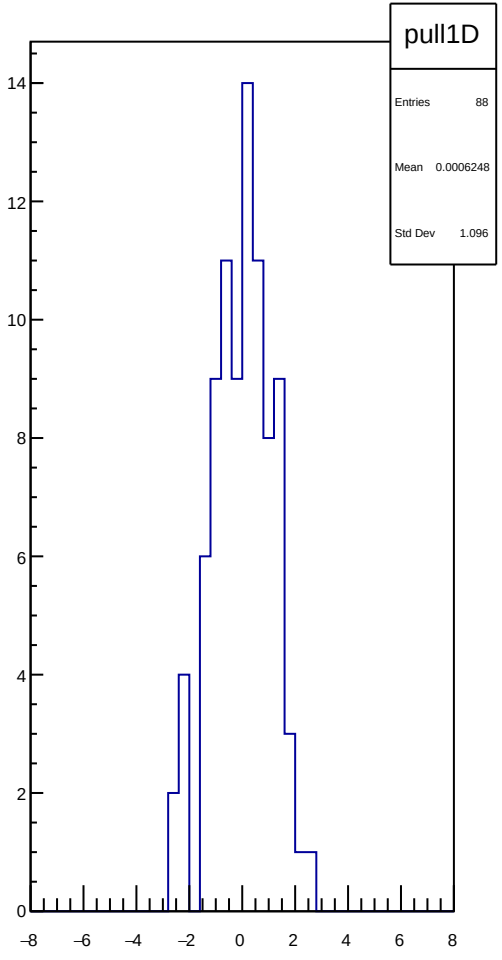

asym_atr2_reg_correction_rms vs run
χ² / ndf 2340 / 87
p0 1.312e+04 ± 10.14
14500
14000
13500
13000
12500
12000
11500

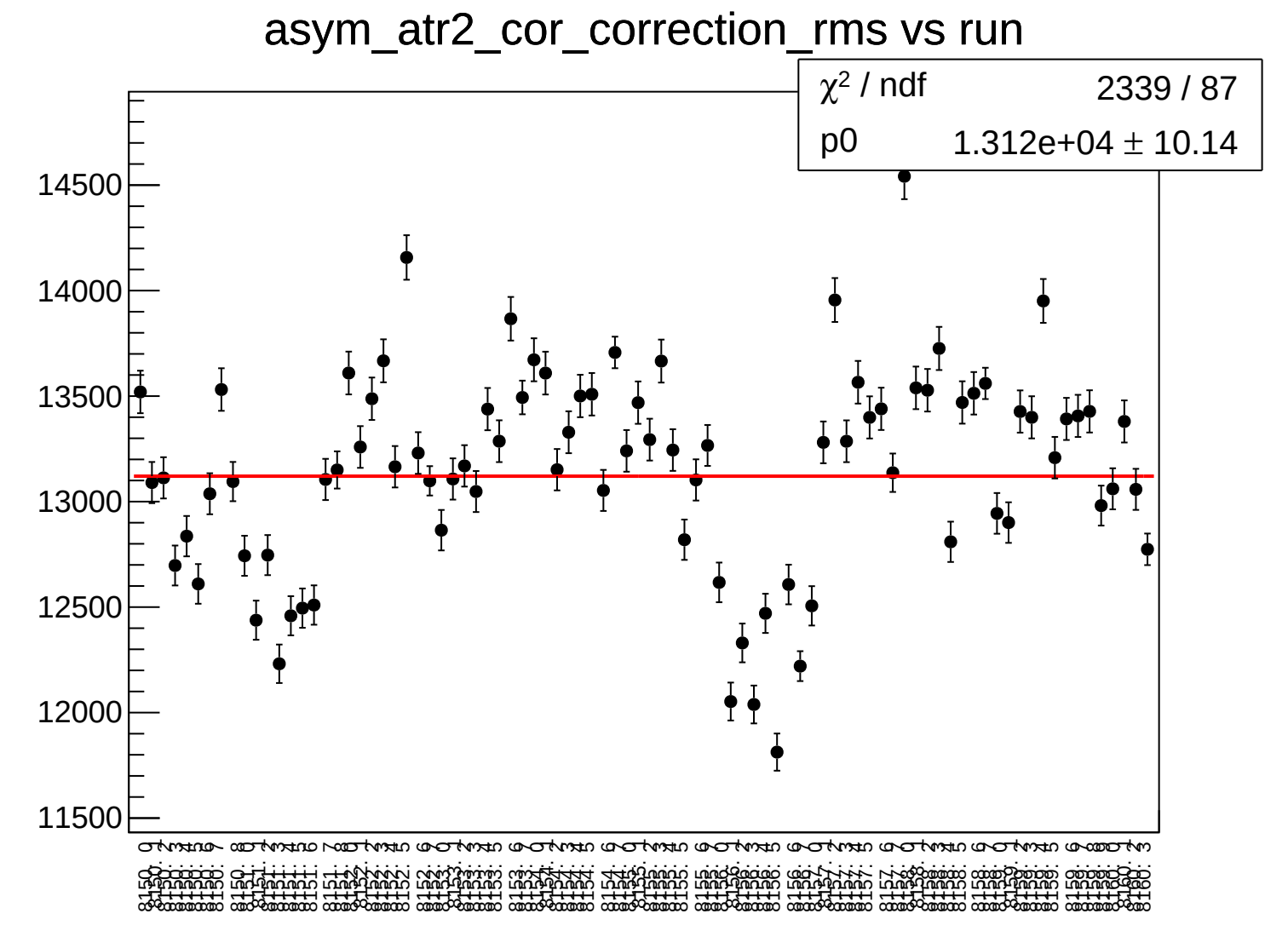

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 108.1 / 87
p0 432 ± 3240
100
50
0
−50
−100
pull
Entries 88
Mean 87.21
Std Dev 39.64
2
1
0
−1
−2
−3

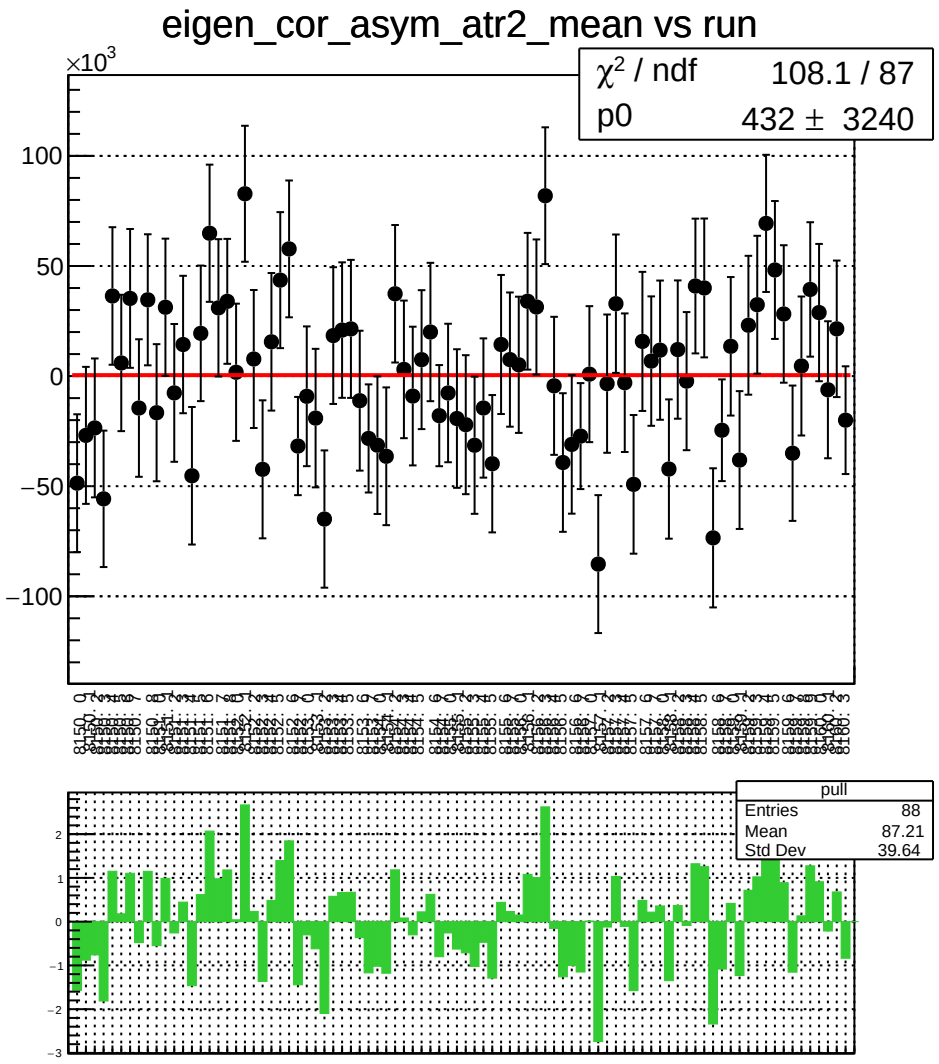

pull1D
Entries 88
Mean 0.01959
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

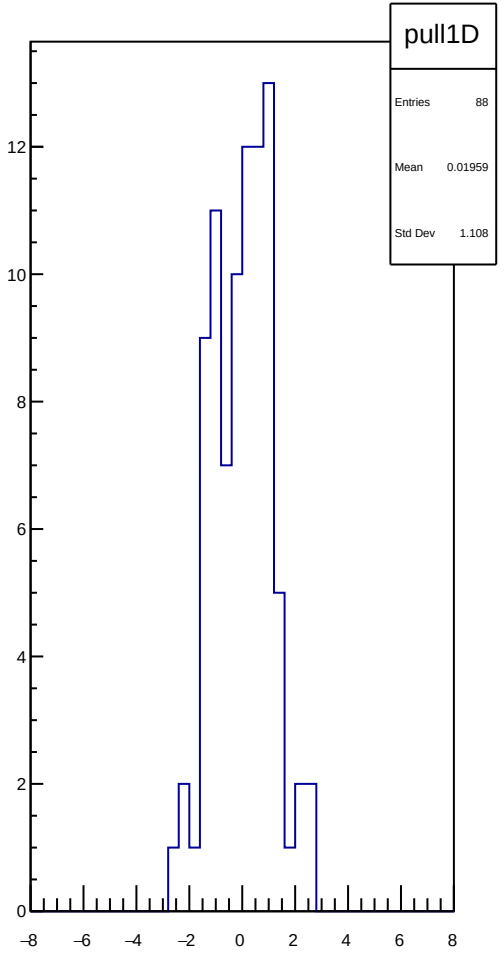

cor_asym_atr2_rms vs run
χ² / ndf 104 / 87
p0 2966 ± 2.291
3040
3020
3000
2980
2960
2940
2920
2900
2880

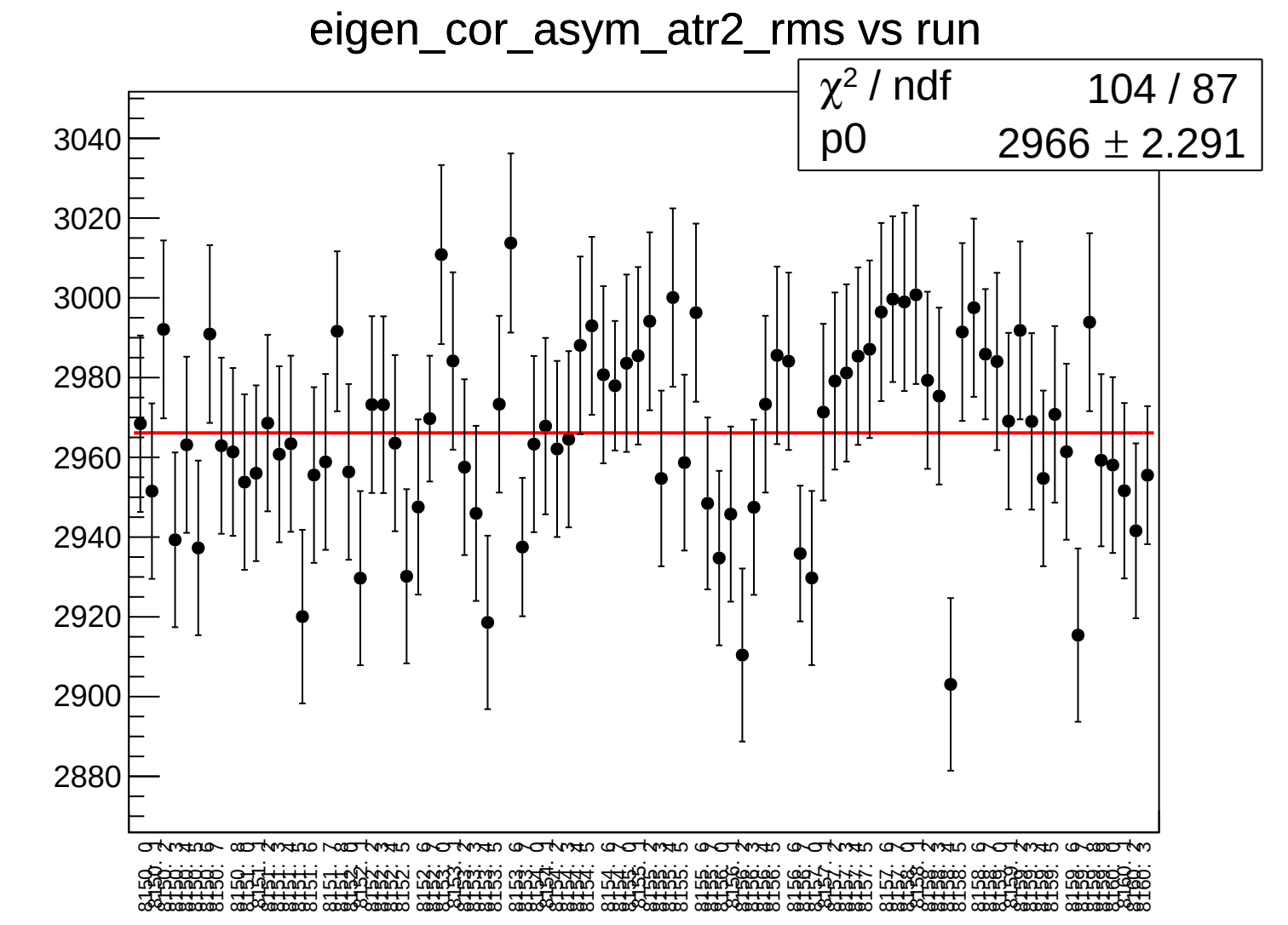

asym_atr2_cor_correction_mean vs run
χ² / ndf 105.7 / 87
p0 −1.76e+04 ± 1.434e+04
pull
Entries 88
Mean −3948
Std Dev 0

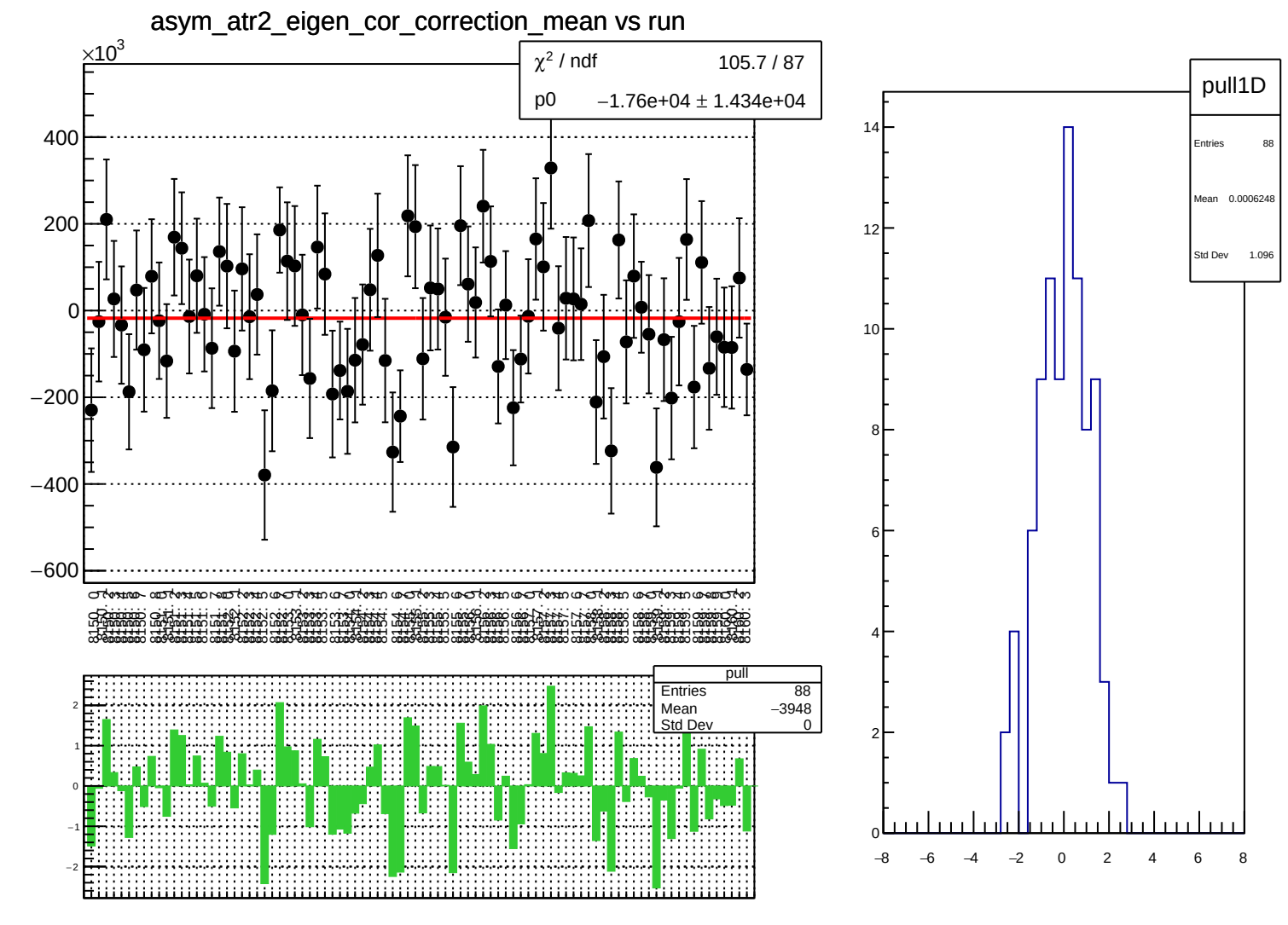

pull1D
Entries 88
Mean 0.0006248
Std Dev 1.096

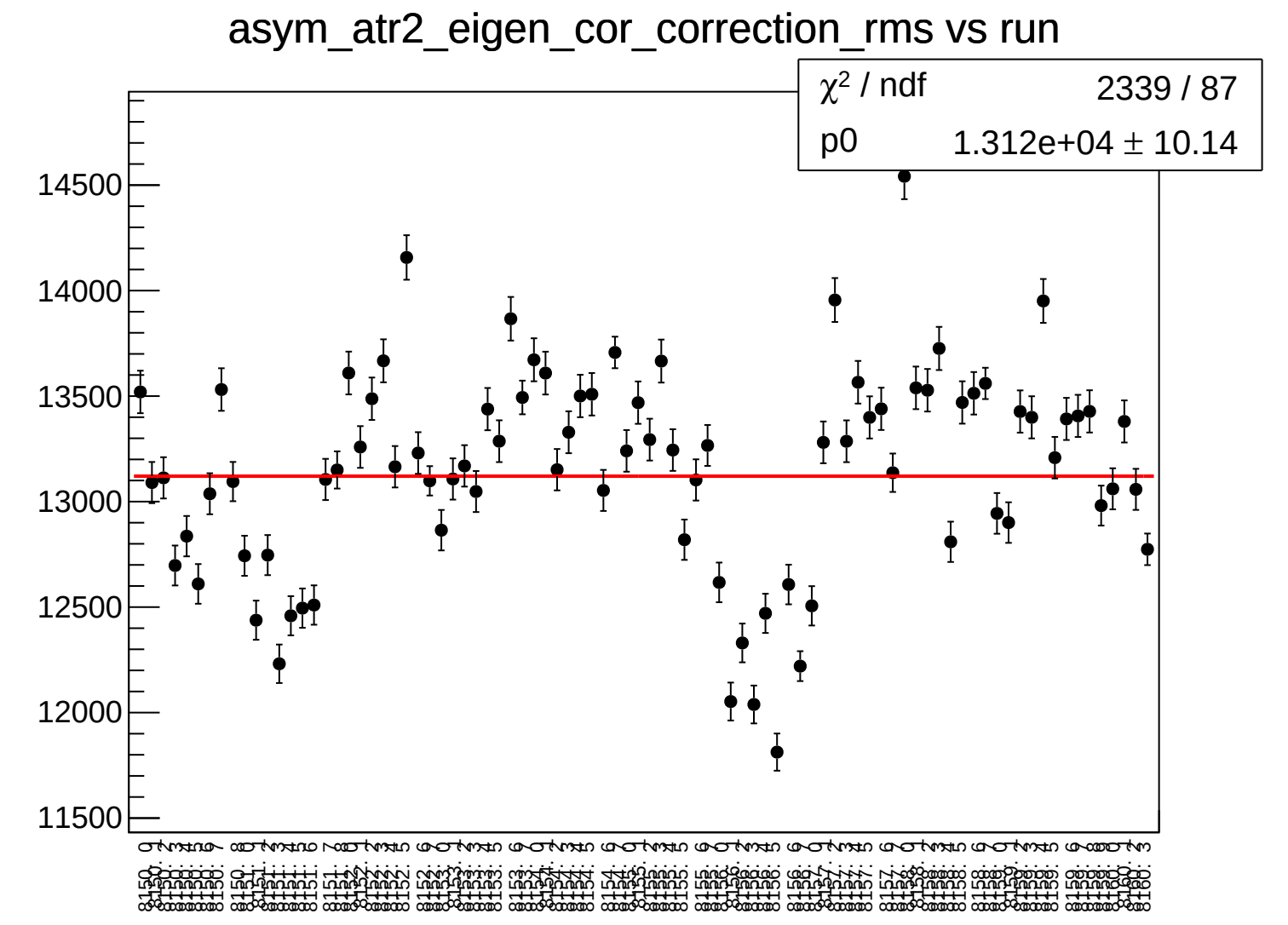

asym_atr2_cor_correction_rms vs run
χ² / ndf 2339 / 87
p0 1.312e+04 ± 10.14
14500
14000
13500
13000
12500
12000
11500

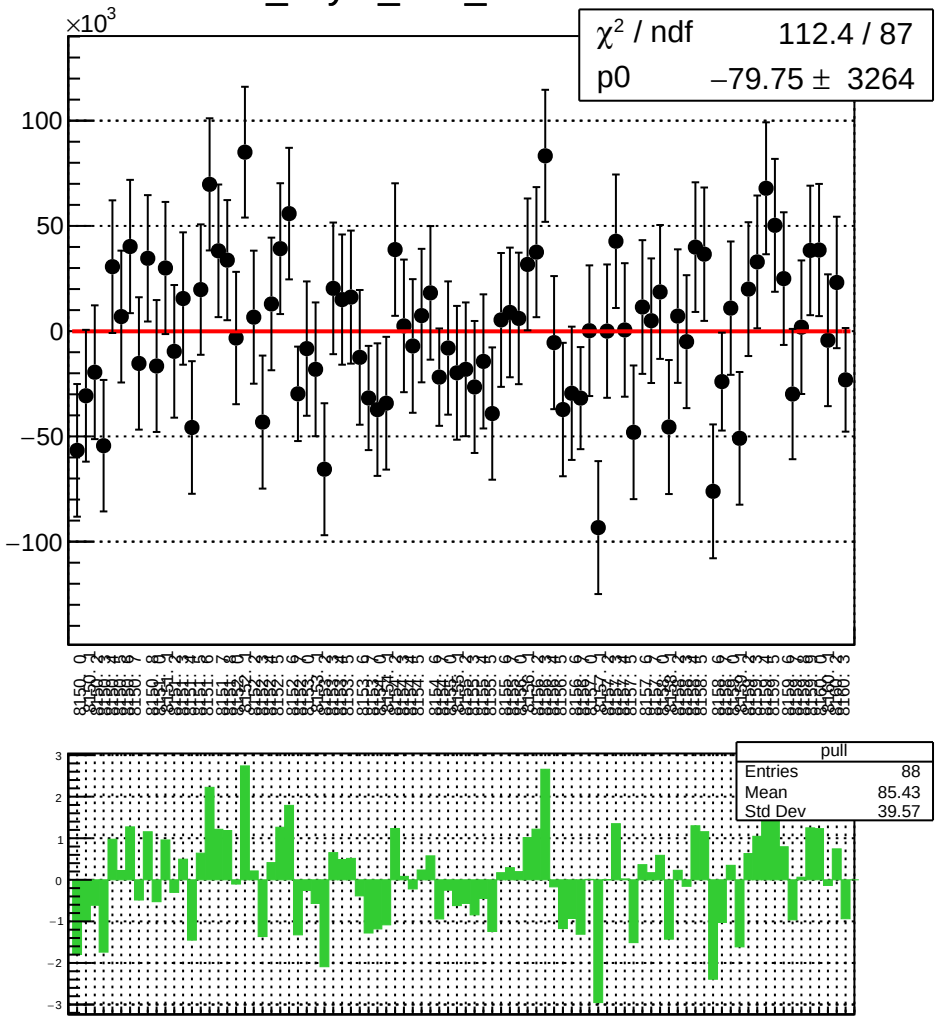

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 108.1 / 87
p0 432 ± 3240
100
50
0
−50
−100
pull
Entries 88
Mean 87.21
Std Dev 39.64
2
1
0
−1
−2
−3

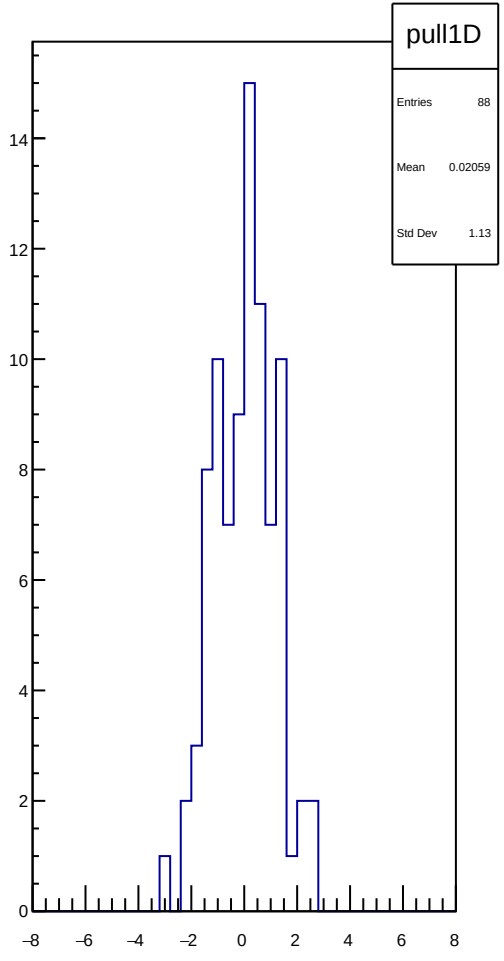

pull1D
Entries 88
Mean 0.01959
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

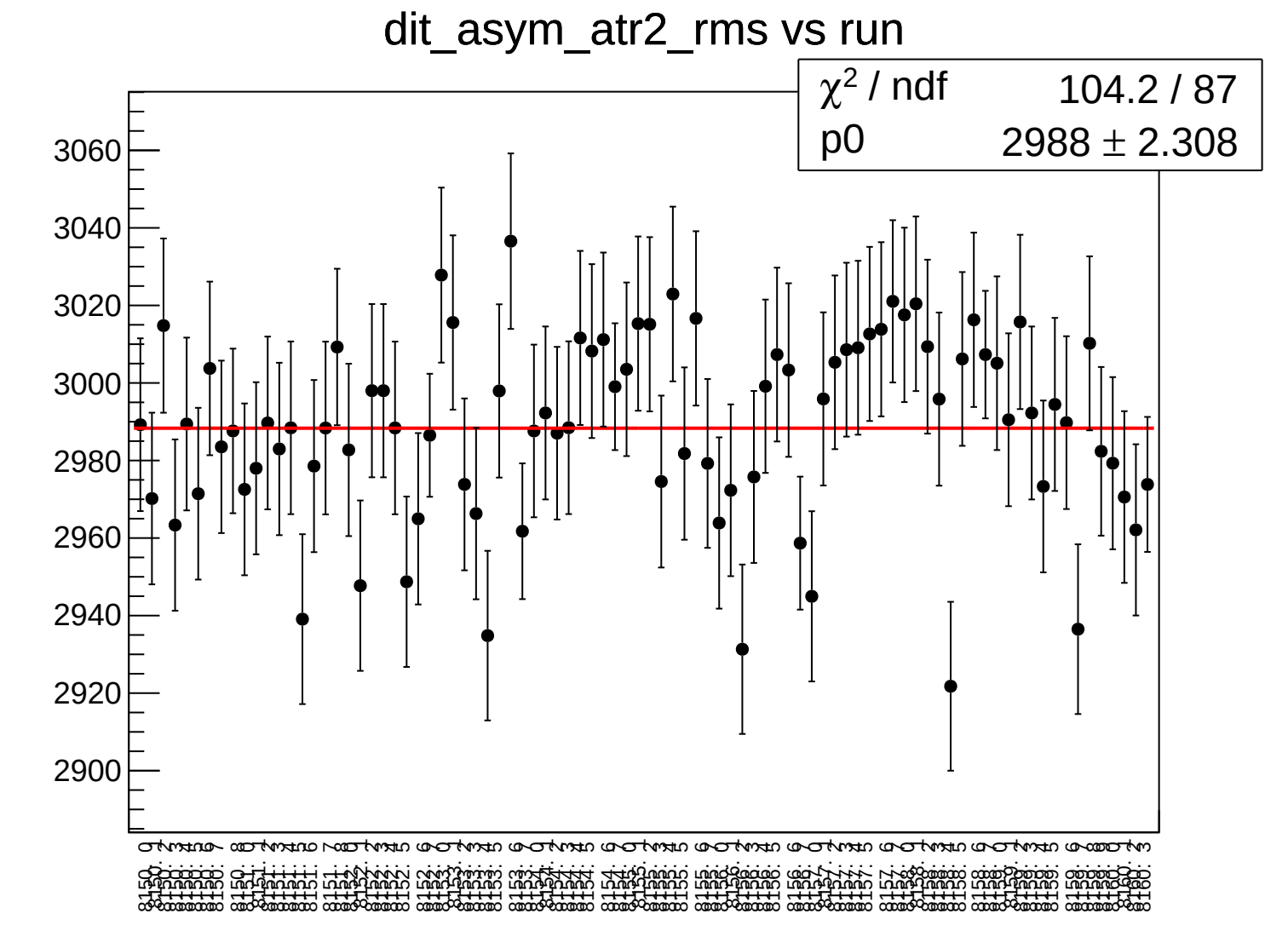

eigen_cor_asym_atr2_rms vs run
χ² / ndf 104 / 87
p0 2966 ± 2.291
3040
3020
3000
2980
2960
2940
2920
2900
2880

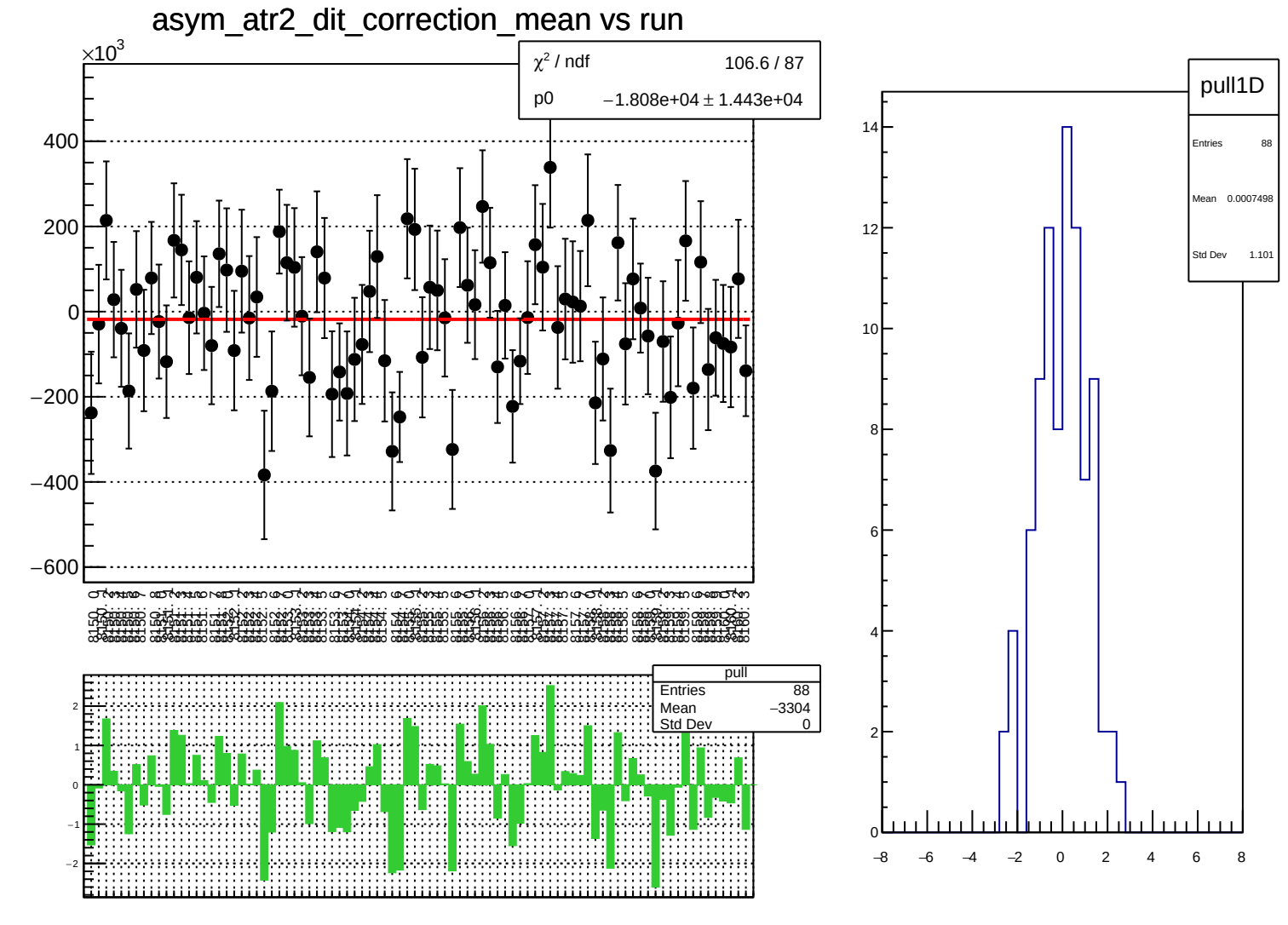

asym_atr2_eigen_cor_correction_mean vs run
χ² / ndf 105.7 / 87
p0 −1.76e+04 ± 1.434e+04
×10³
400
200
0
−200
−400
−600
pull
Entries 88
Mean −3948
Std Dev 0
pull1D
Entries 88
Mean 0.0006248
Std Dev 1.096

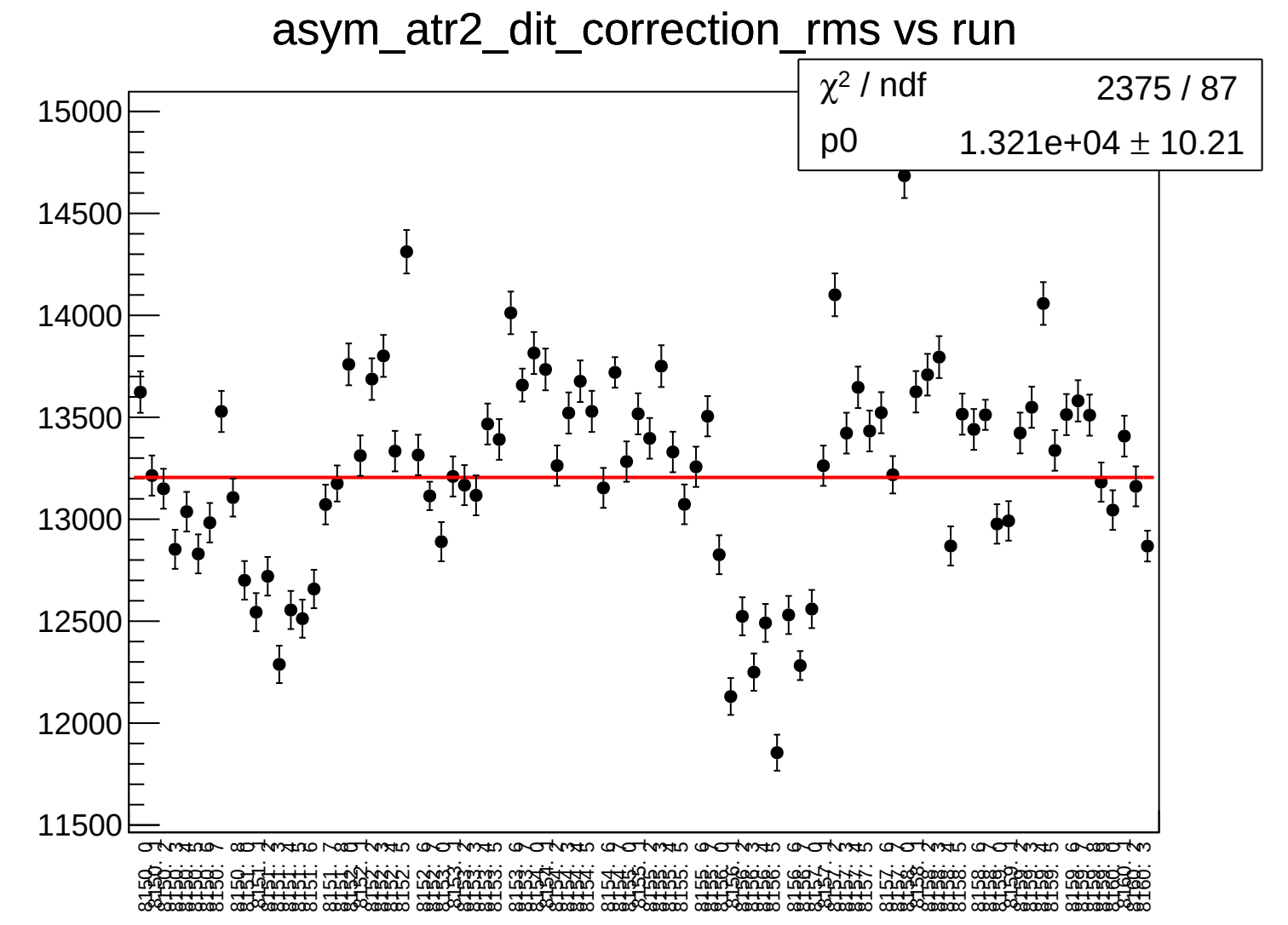

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 2339 / 87
p0 1.312e+04 ± 10.14
14500
14000
13500
13000
12500
12000
11500

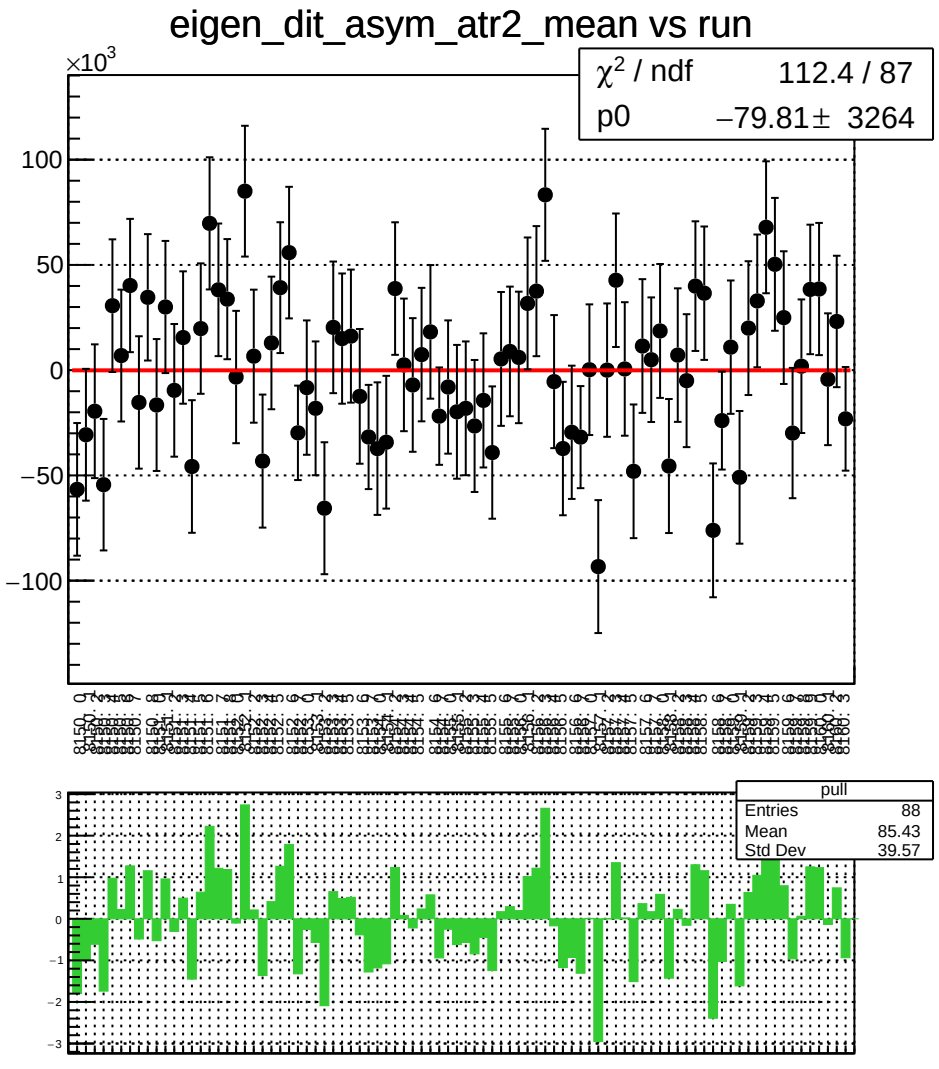

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 112.4 / 87
p0 −79.75 ± 3264
100
50
0
−50
−100
pull
Entries 88
Mean 85.43
Std Dev 39.57
3
2
1
0
−1
−2
−3

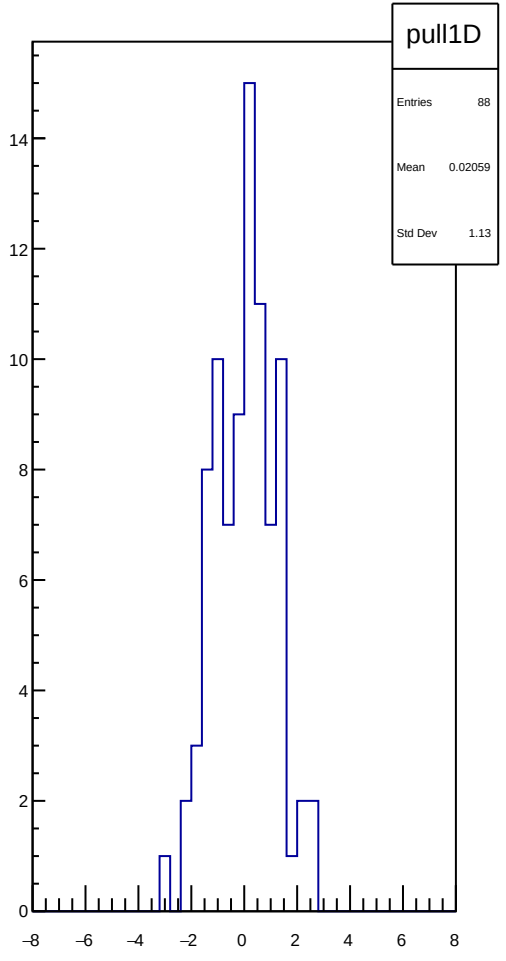

pull1D
Entries 88
Mean 0.02059
Std Dev 1.13
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

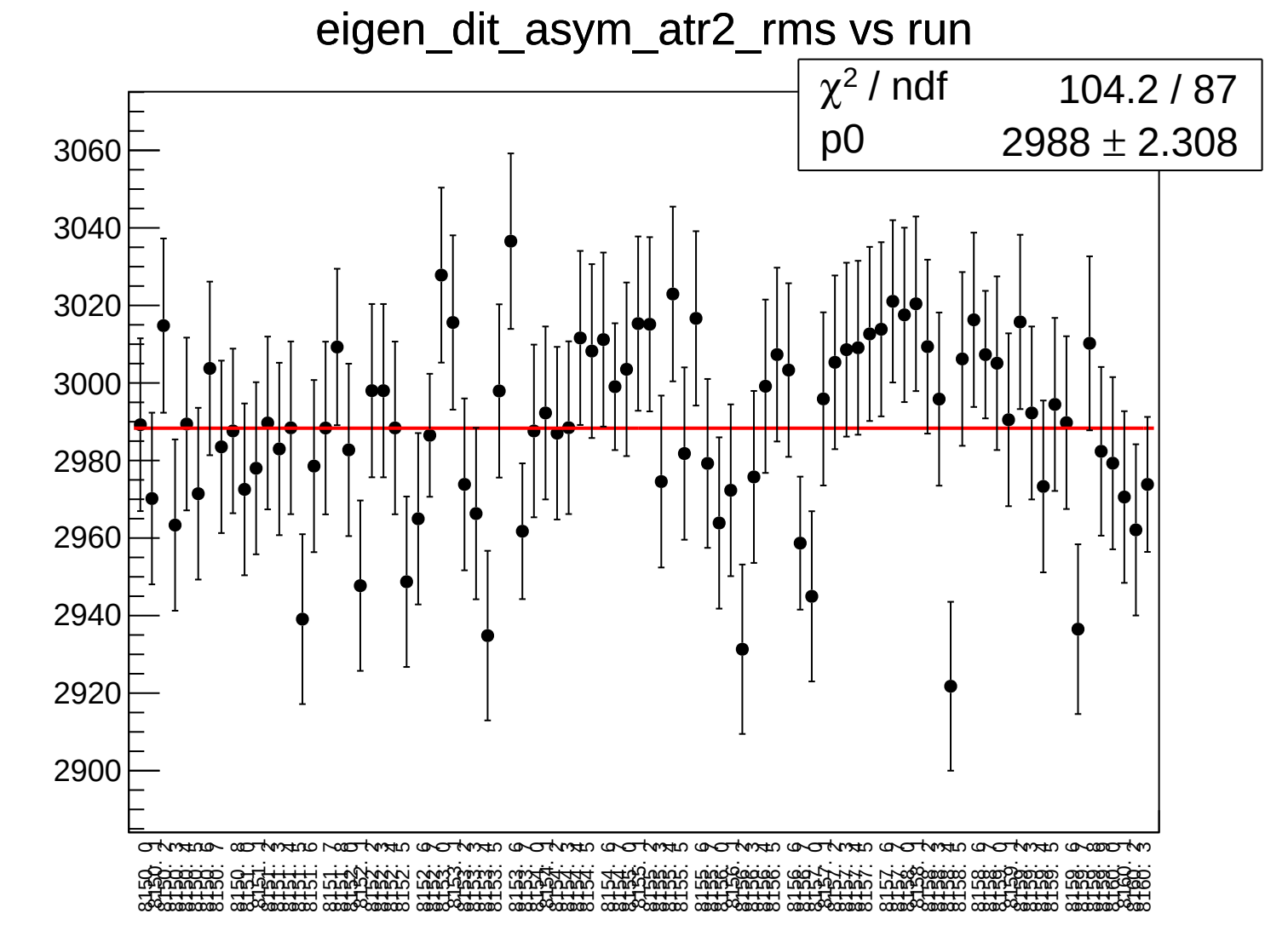

dit_asym_atr2_rms vs run
χ^2 / ndf 104.2 / 87
p0 2988 ± 2.308
3060
3040
3020
3000
2980
2960
2940
2920
2900

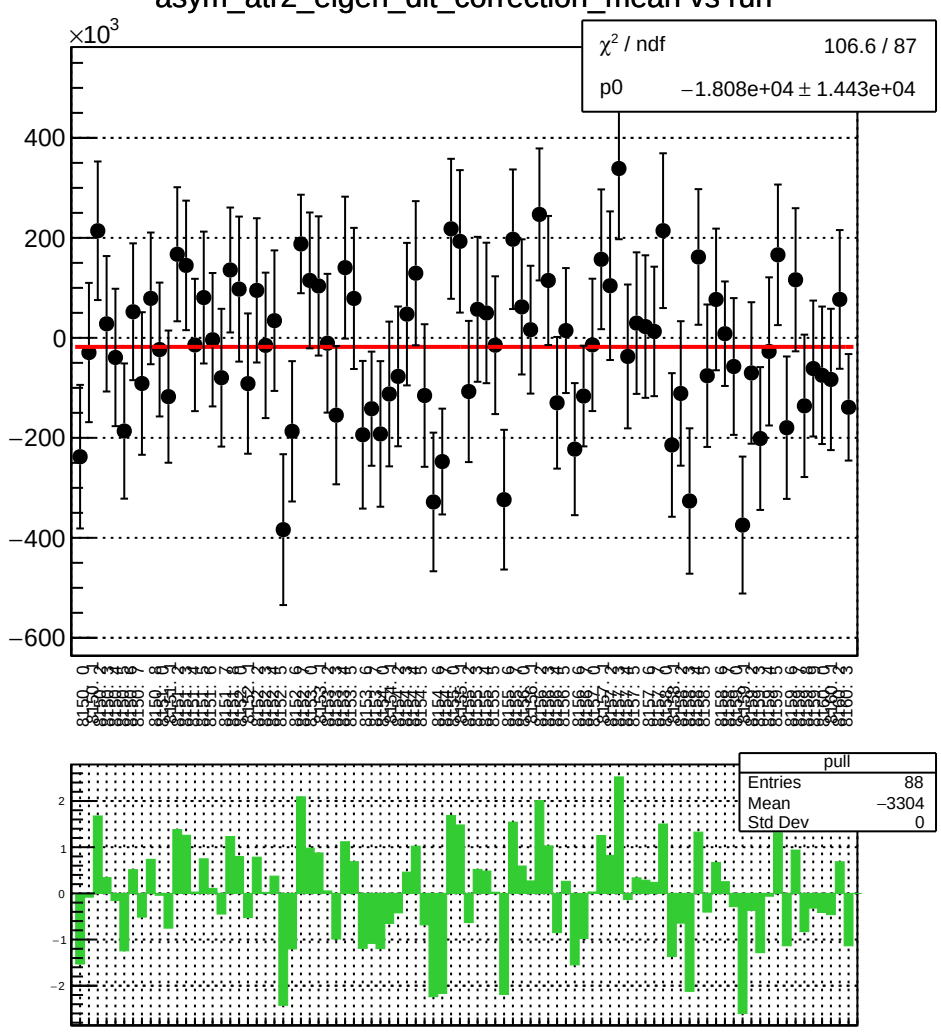

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 106.6 / 87
p0 −1.808e+04 ± 1.443e+04
400
200
0
−200
−400
−600
pull
Entries 88
Mean −3304
Std Dev 0
pull1D
Entries 88
Mean 0.0007498
Std Dev 1.101

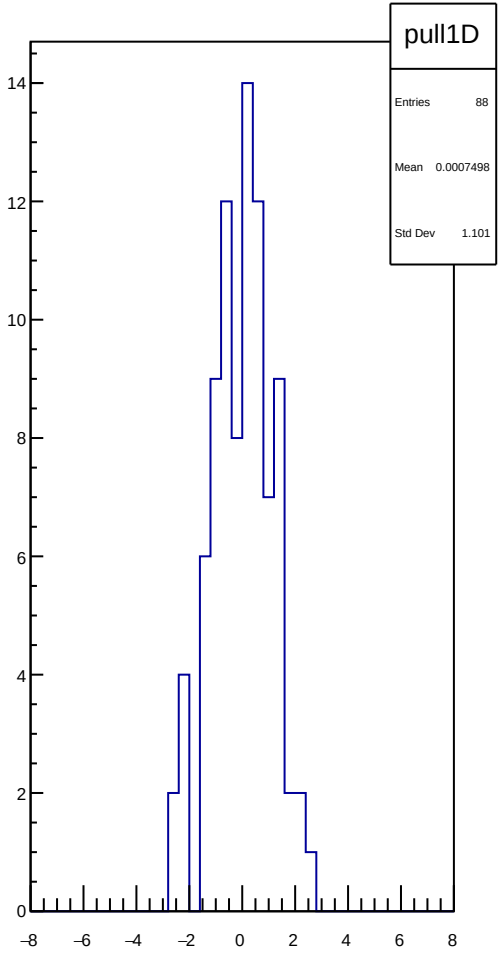

asym_atr2_dit_correction_rms vs run
χ² / ndf 2375 / 87
p0 1.321e+04 ± 10.21
15000
14500
14000
13500
13000
12500
12000
11500

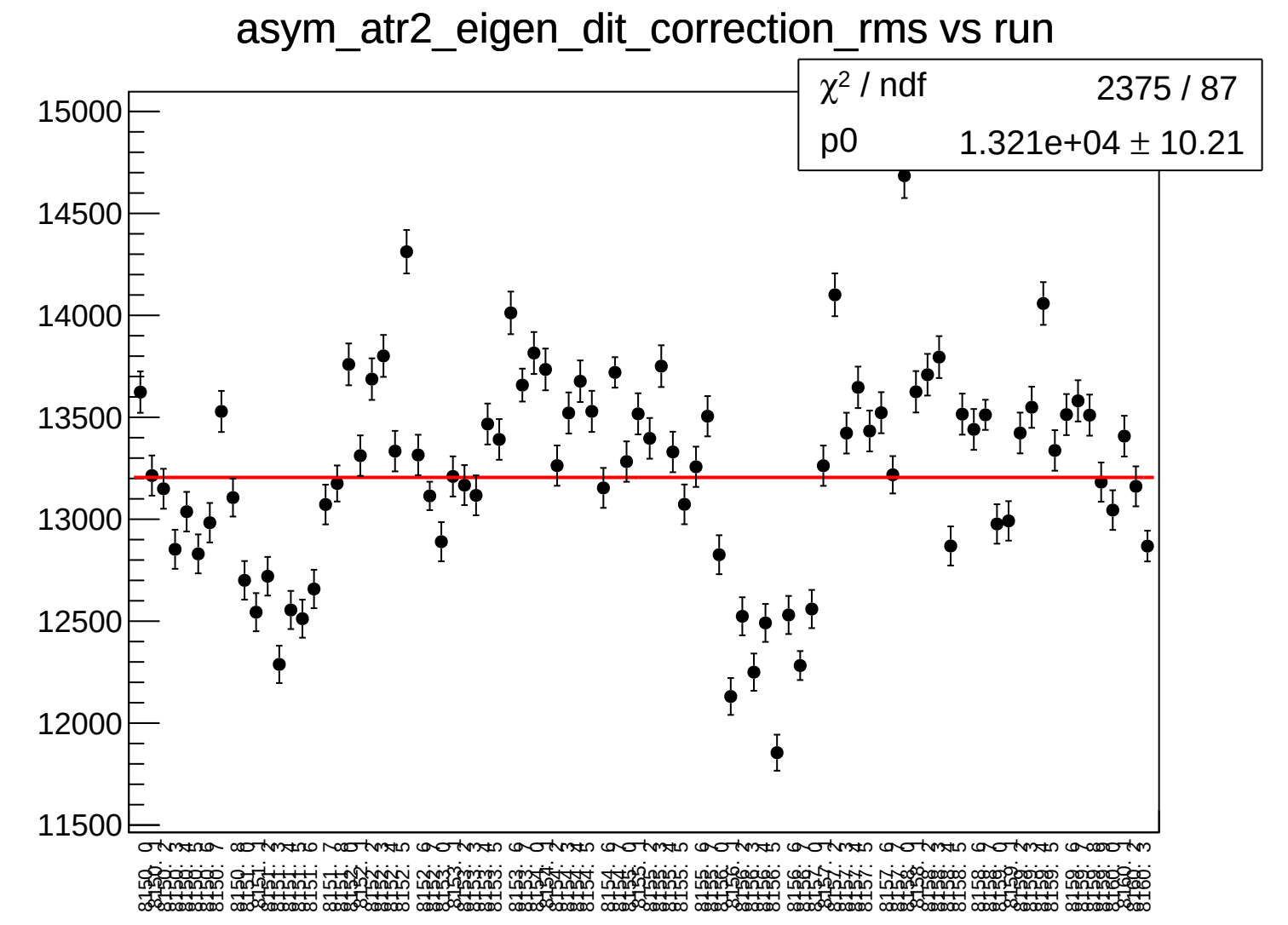

eigen_dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 112.4 / 87
p0 −79.81± 3264
100
50
0
−50
−100
pull
Entries 88
Mean 85.43
Std Dev 39.57
3
2
1
0
−1
−2
−3

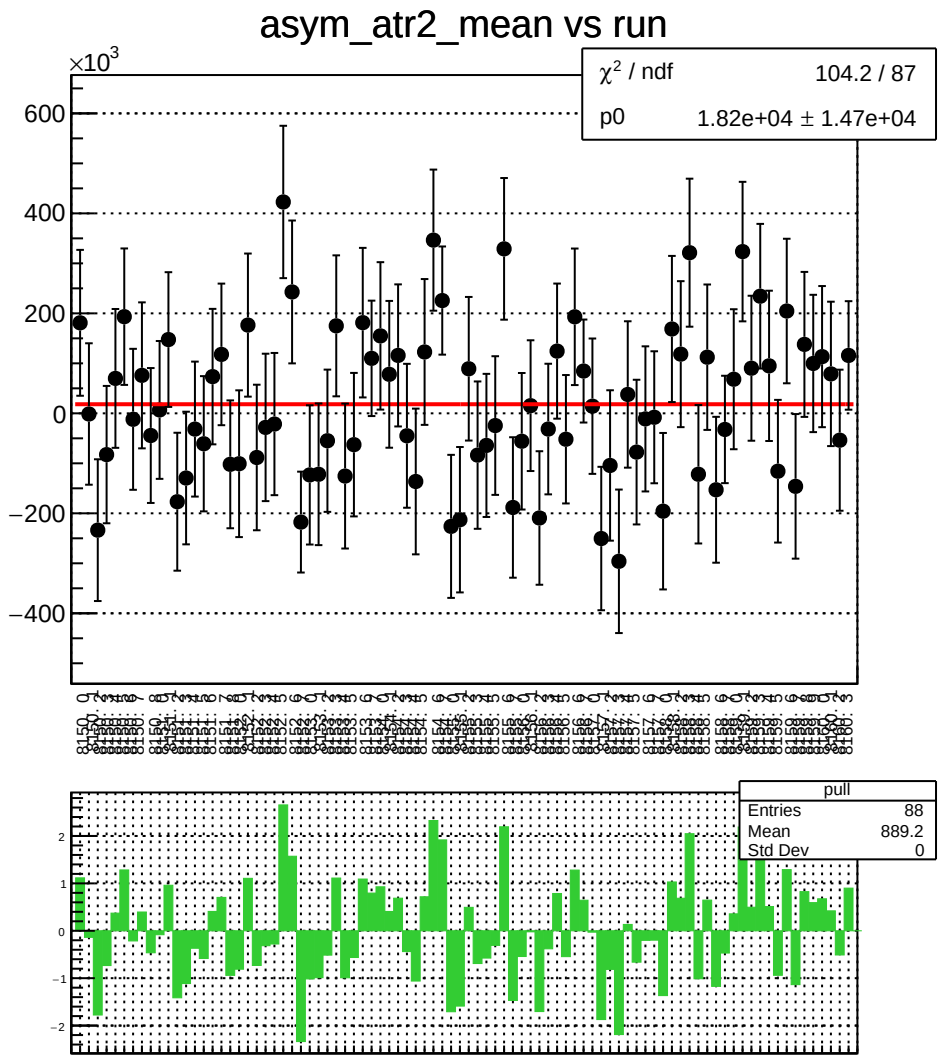

pull1D
Entries 88
Mean 0.02059
Std Dev 1.13
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

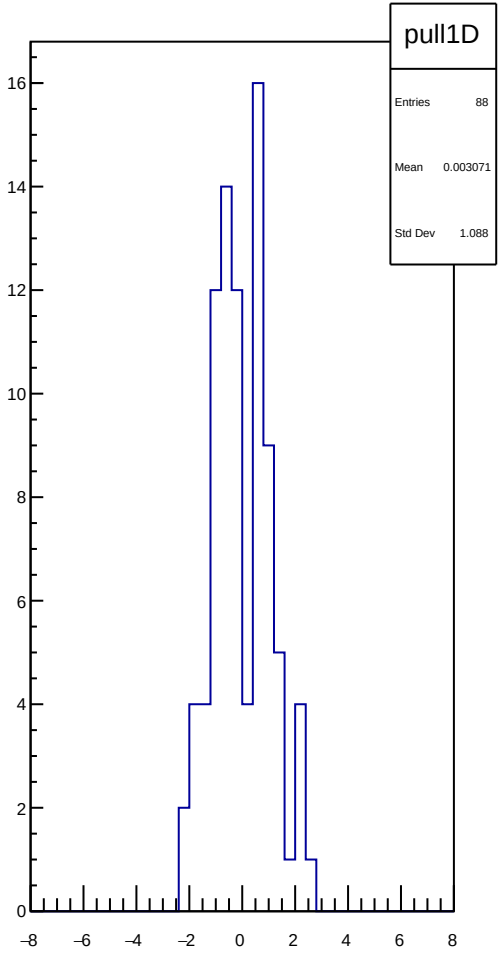

eigen_dit_asym_atr2_rms vs run
χ^2 / ndf 104.2 / 87
p0 2988 ± 2.308
3060
3040
3020
3000
2980
2960
2940
2920
2900

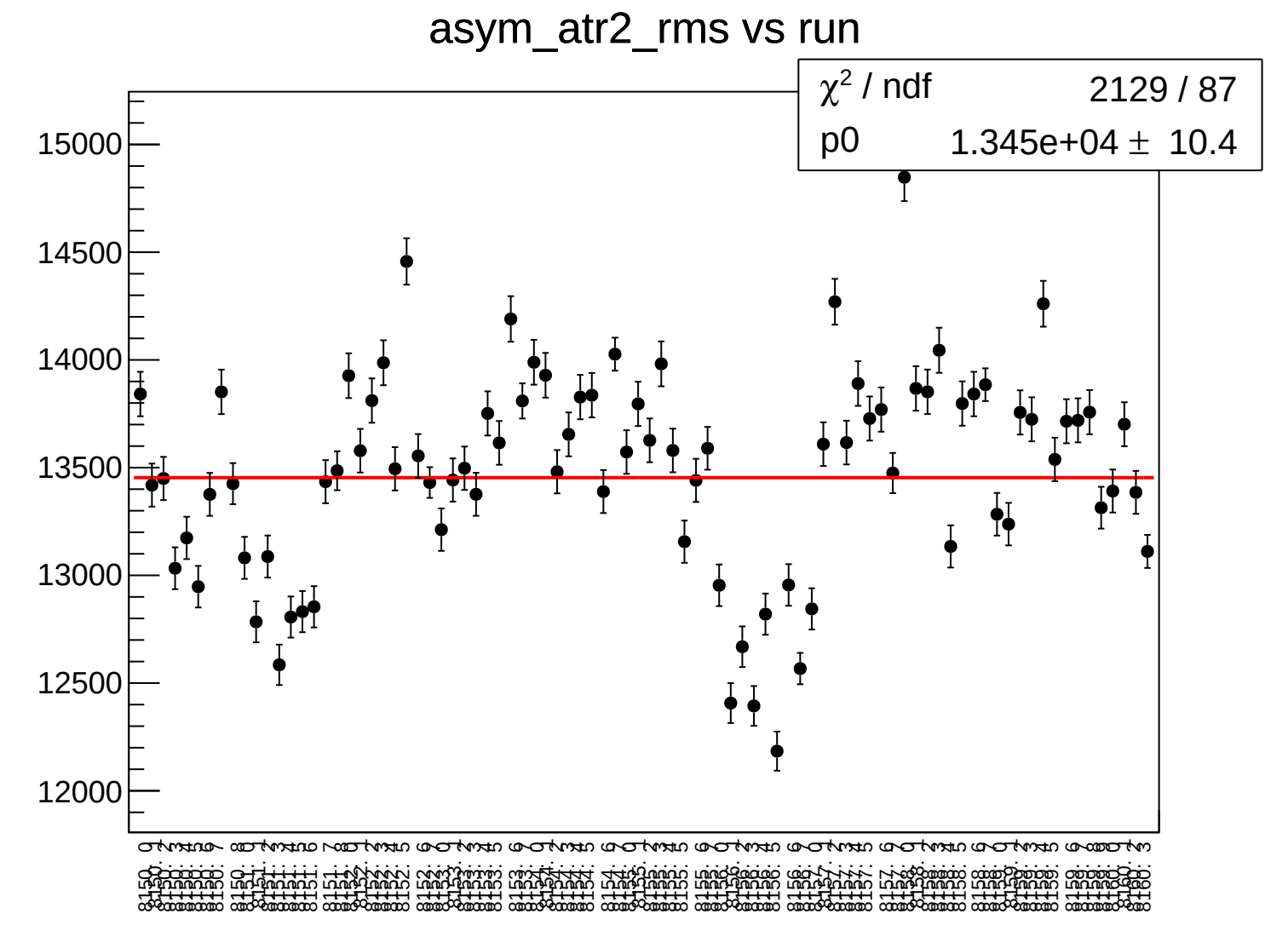

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 106.6 / 87
p0 −1.808e+04 ± 1.443e+04
400
200
0
−200
−400
−600
pull
Entries 88
Mean −3304
Std Dev 0
2
1
0
−1
−2

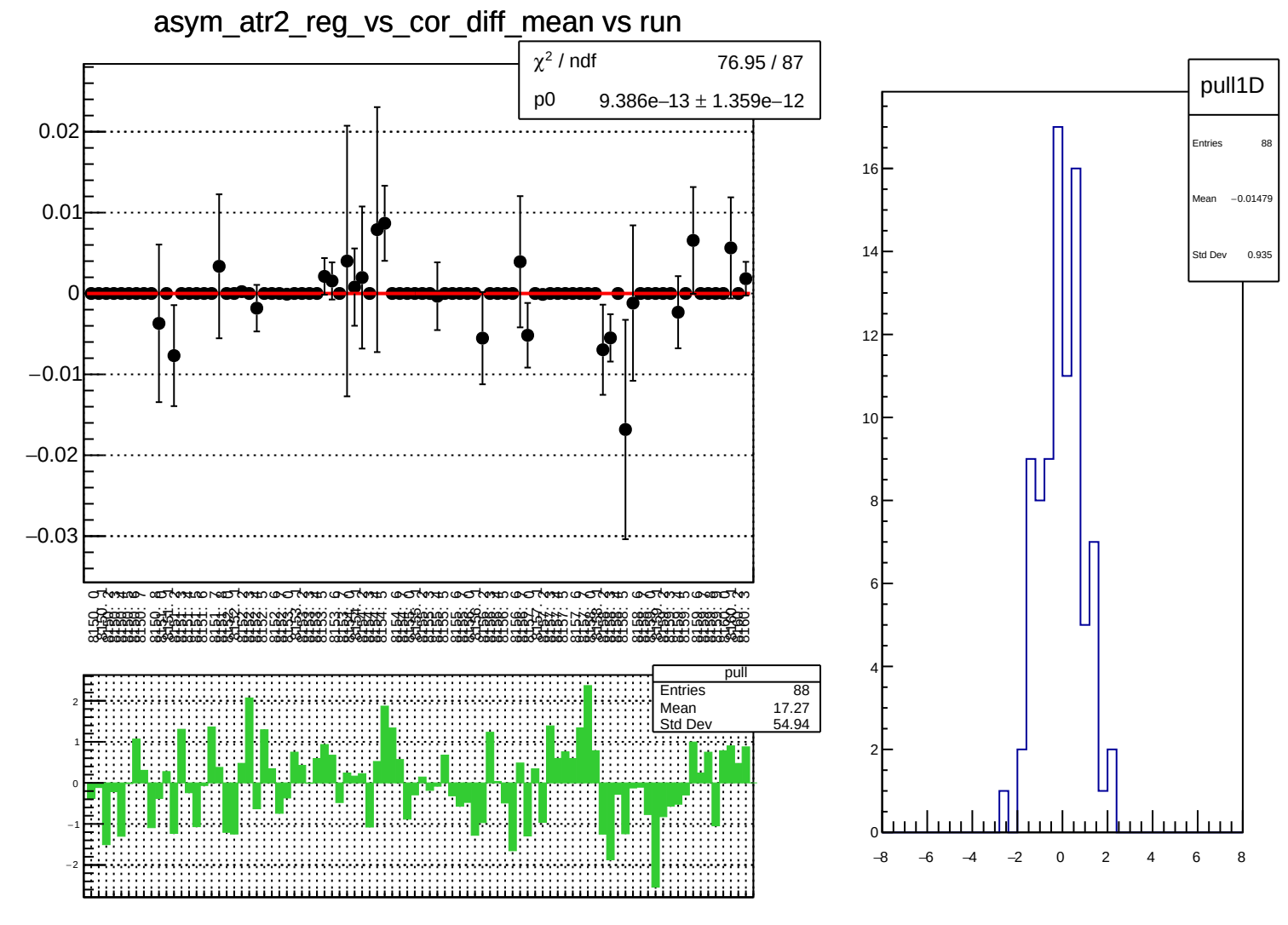

pull1D
Entries 88
Mean 0.0007498
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

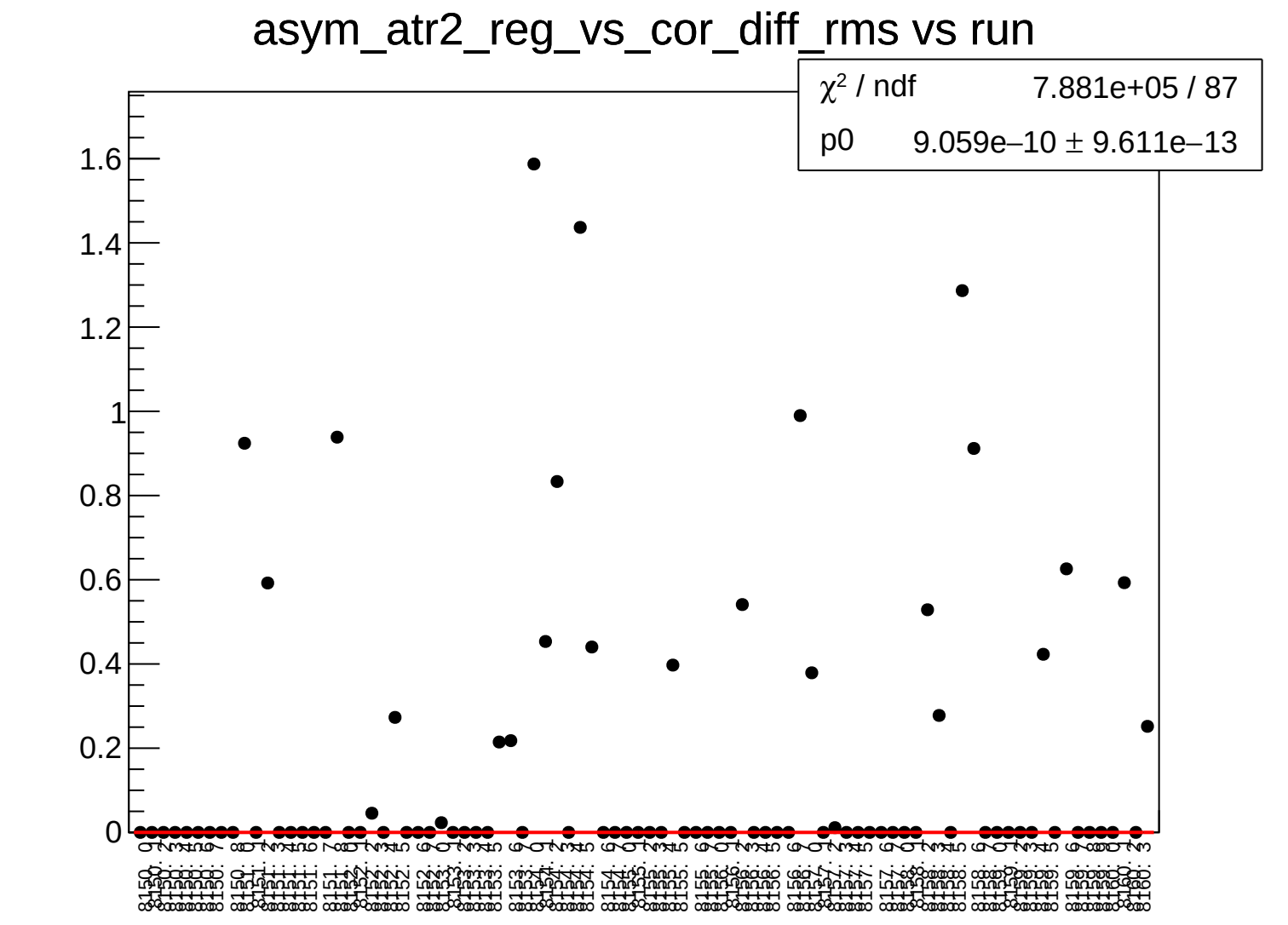

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 2375 / 87
p0 1.321e+04 ± 10.21
15000
14500
14000
13500
13000
12500
12000
11500

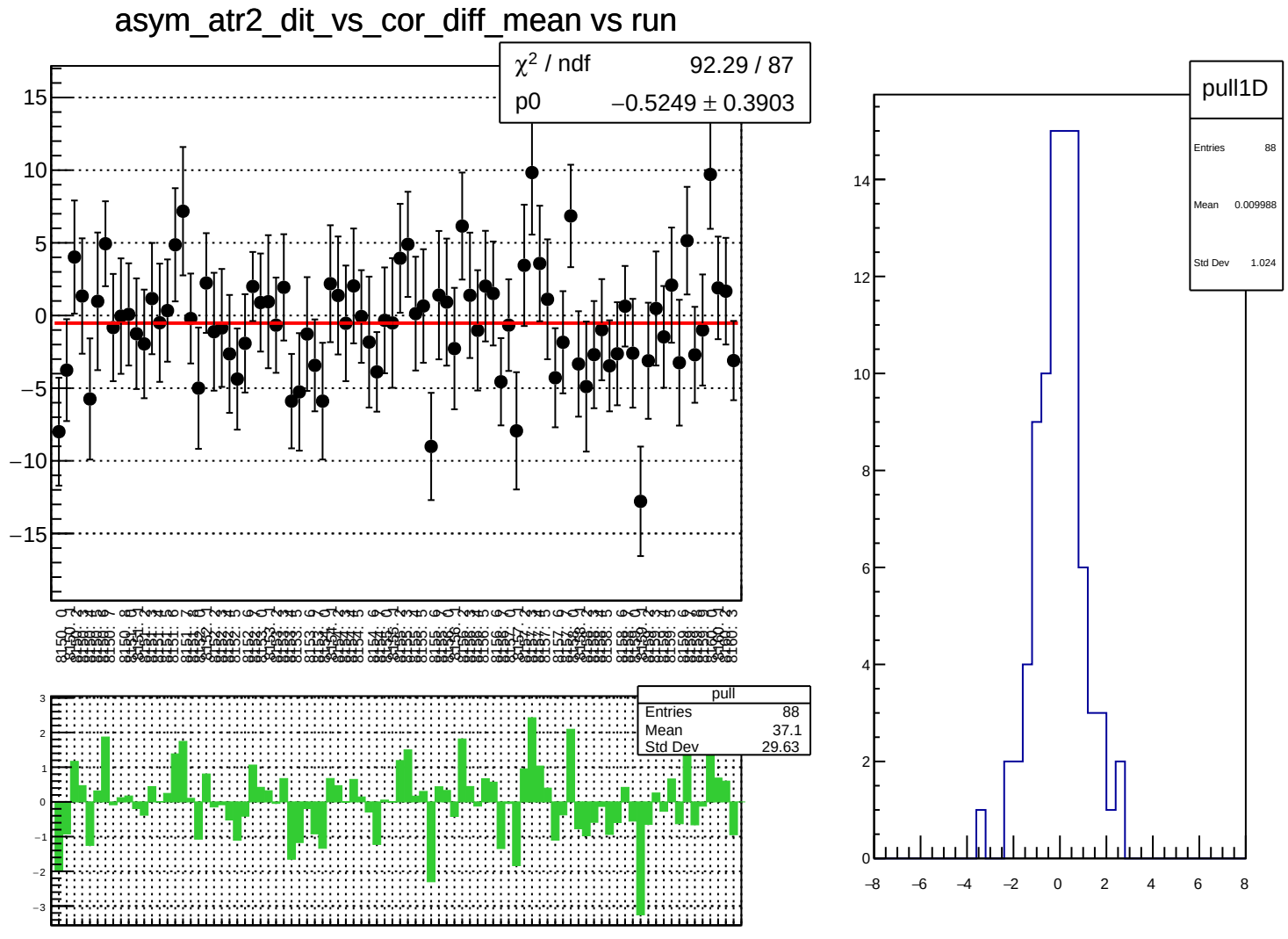

asym_atr2_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 104.2 / 87
p0 1.82e+04 ± 1.47e+04
pull
Entries 88
Mean 889.2
Std Dev 0
2
1
0
−1
−2

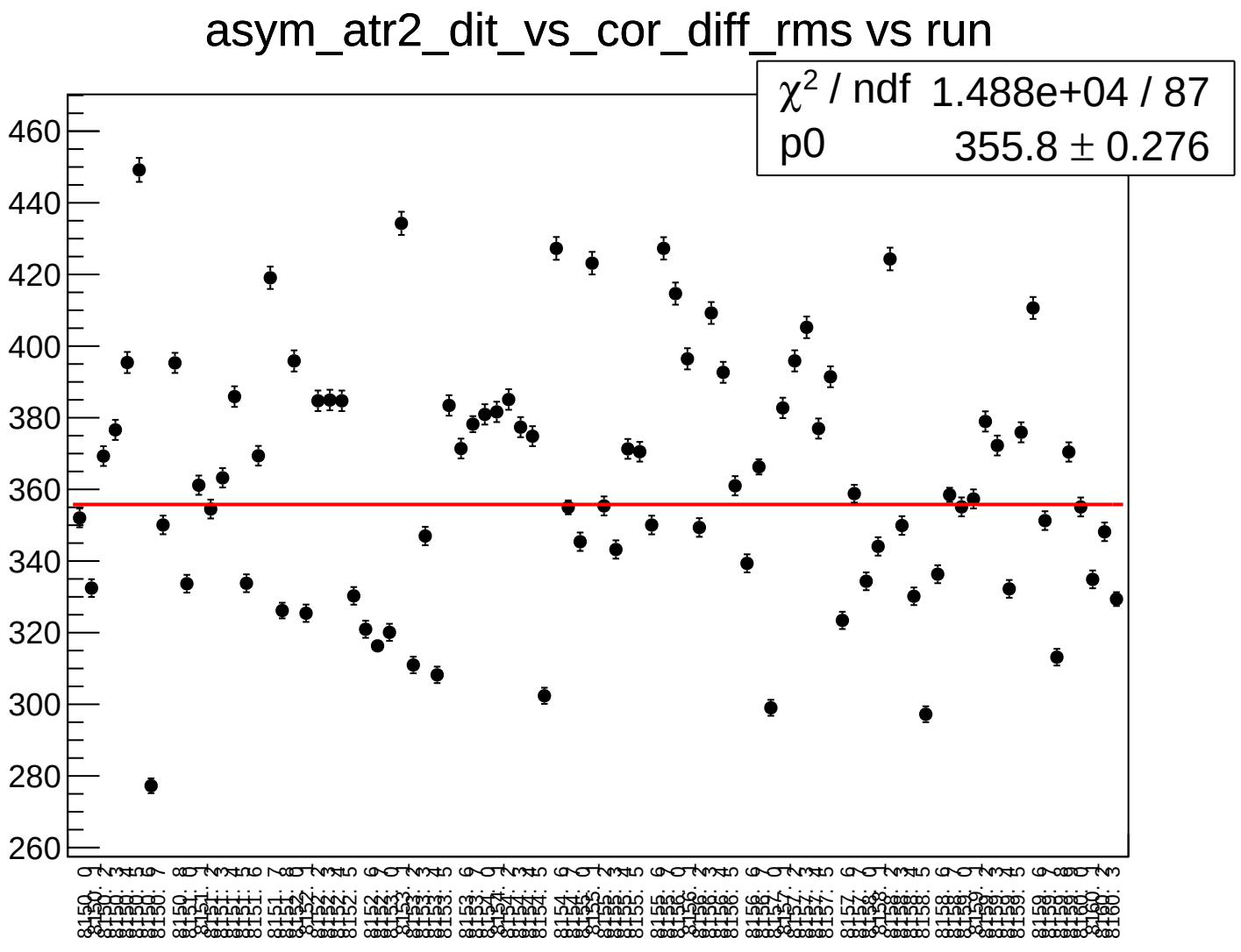

pull1D
Entries 88
Mean 0.003071
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

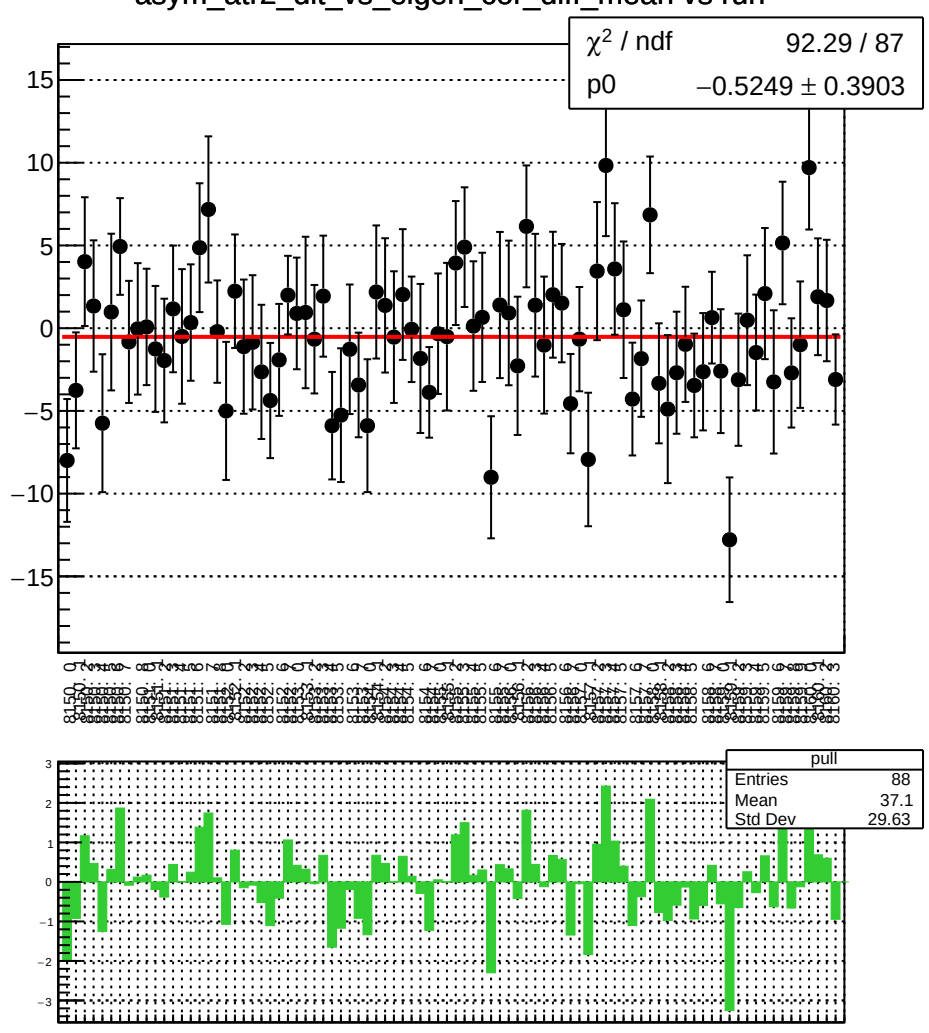

asym_atr2_rms vs run
χ² / ndf 2129 / 87
p0 1.345e+04 ± 10.4
15000
14500
14000
13500
13000
12500
12000

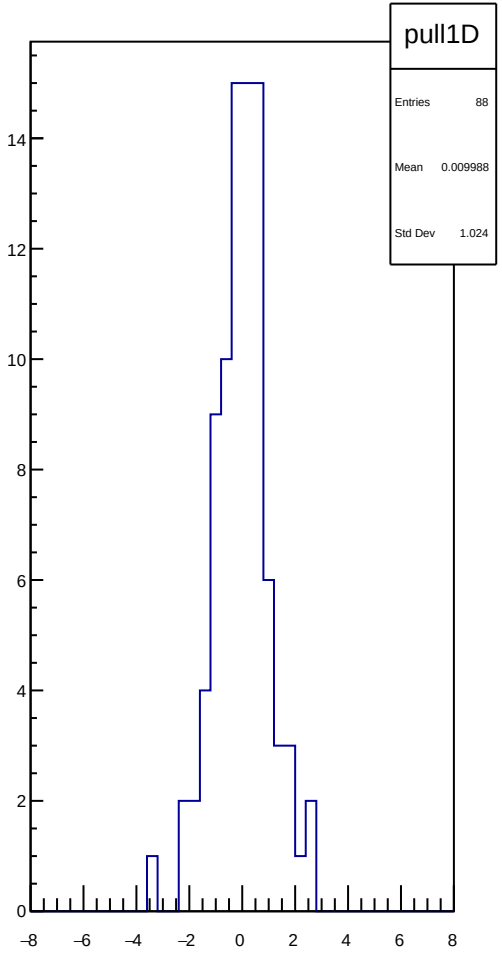

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 76.95 / 87
p0 9.386e−13 ± 1.359e−12
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 17.27
Std Dev 54.94
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01479
Std Dev 0.935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

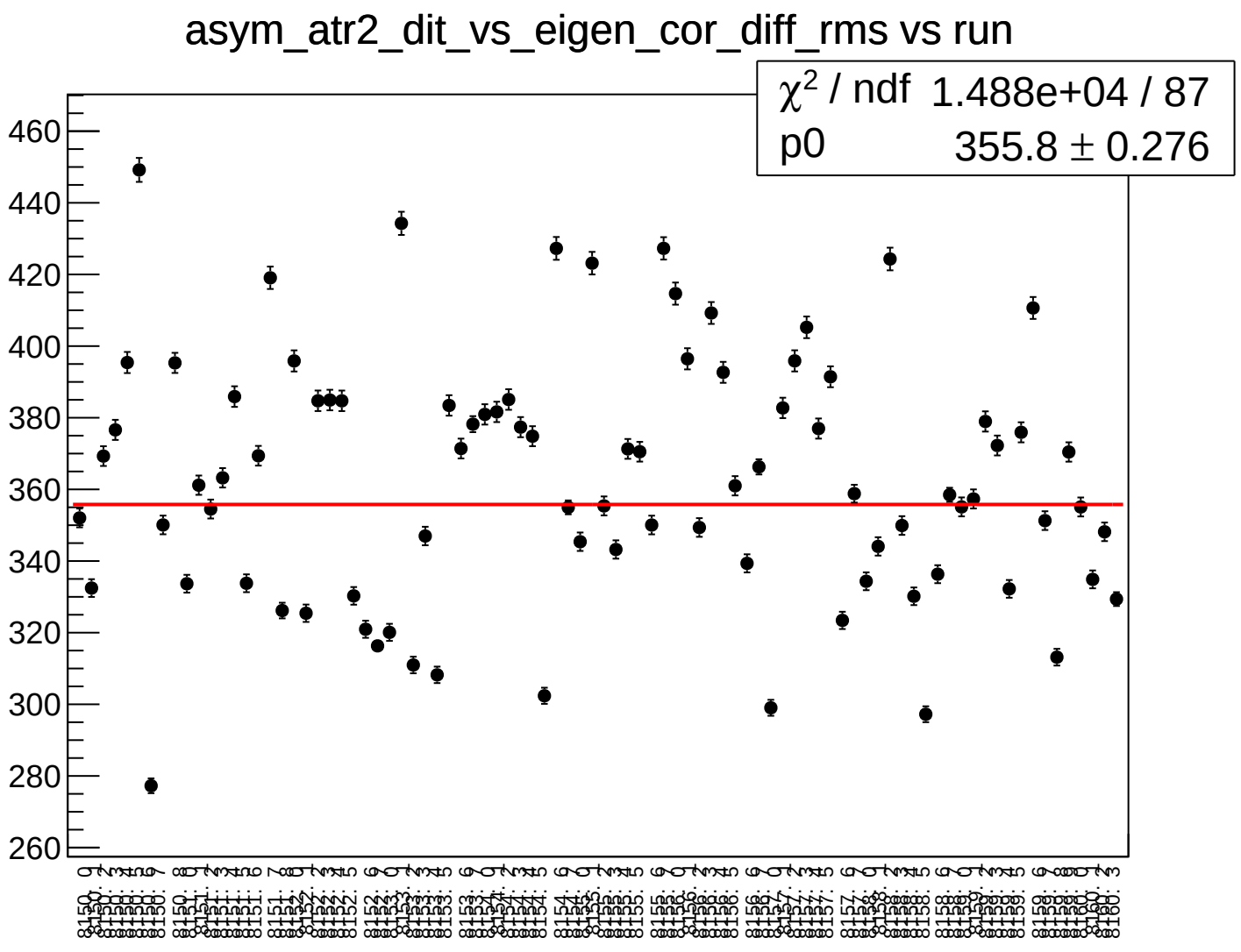

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 7.881e+05 / 87
p0 9.059e−10 ± 9.611e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

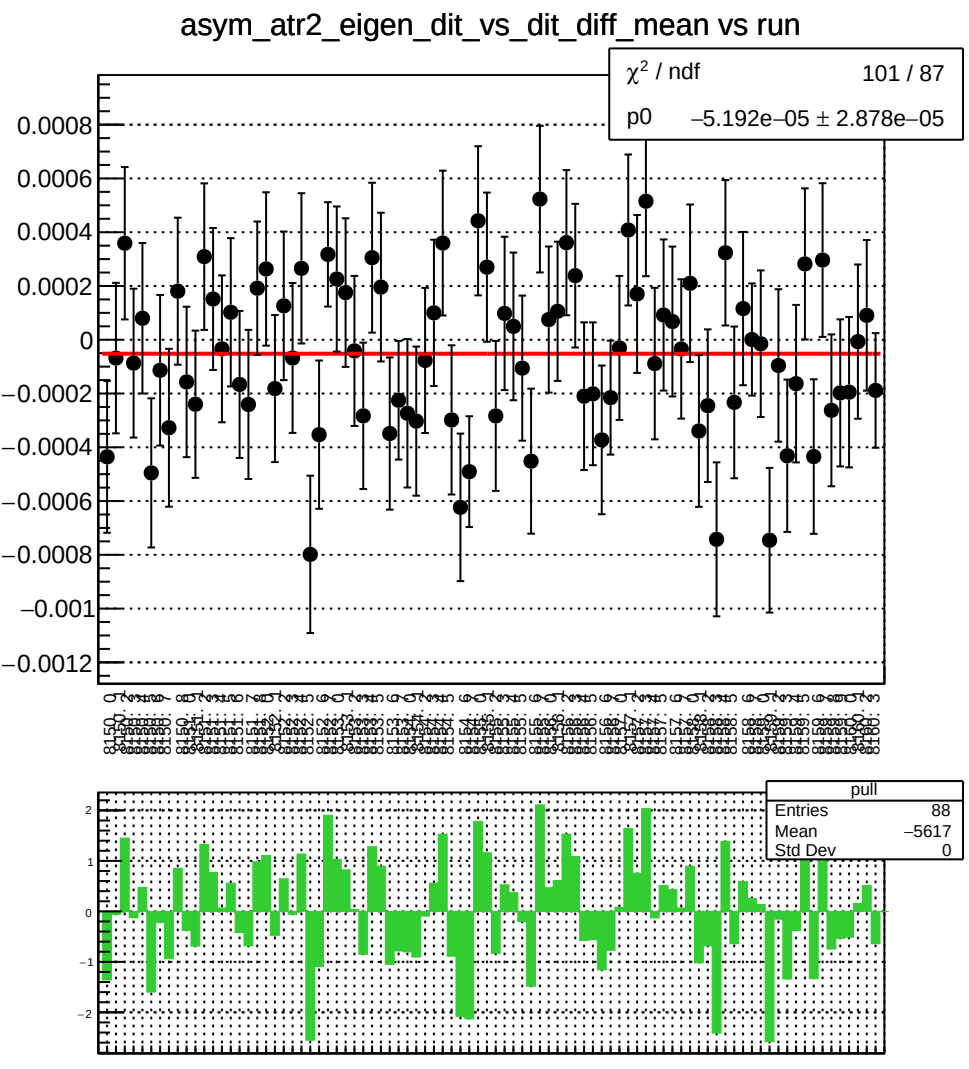

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 92.29 / 87
p0 −0.5249 ± 0.3903
pull
Entries 88
Mean 37.1
Std Dev 29.63
pull1D
Entries 88
Mean 0.009988
Std Dev 1.024

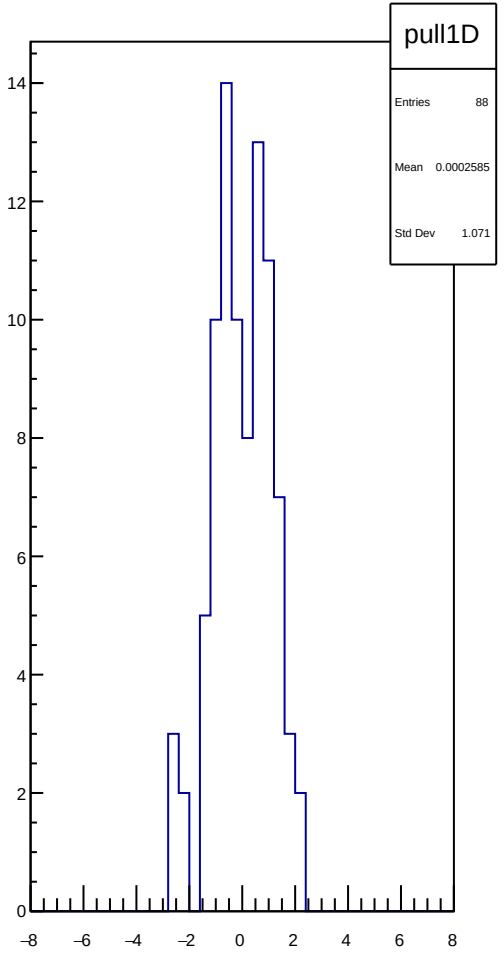

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.488e+04 / 87
p0 355.8 ± 0.276
460
440
420
400
380
360
340
320
300
280
260

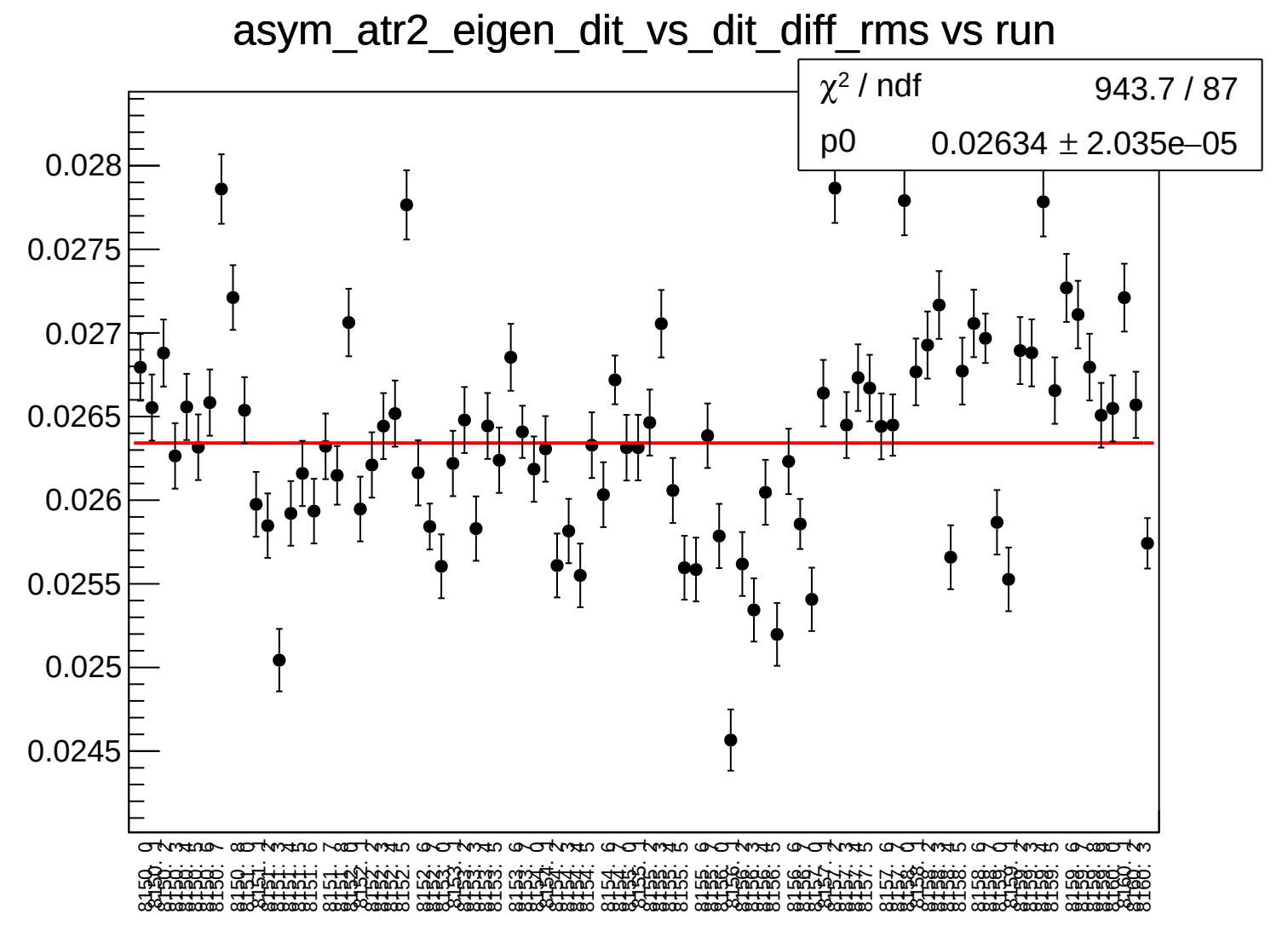

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.29 / 87
p0 −0.5249 ± 0.3903
pull
Entries 88
Mean 37.1
Std Dev 29.63

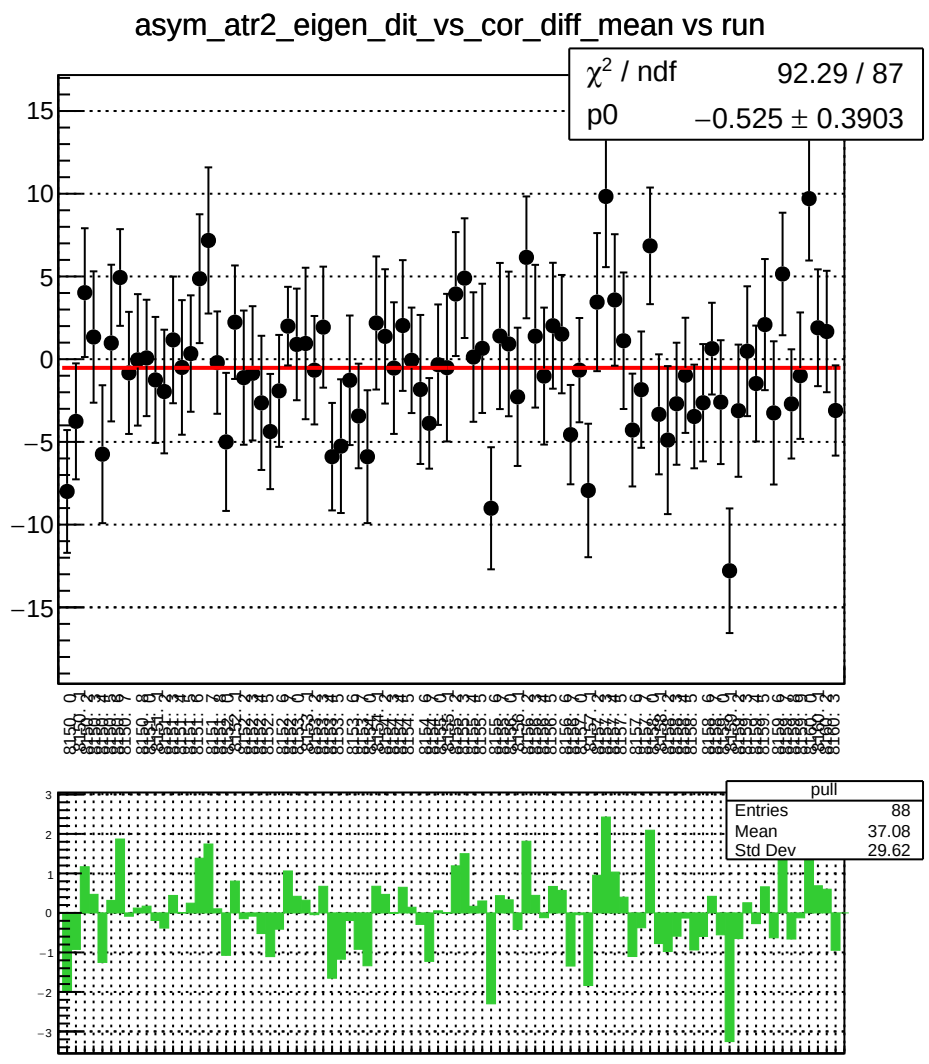

pull1D
Entries 88
Mean 0.009988
Std Dev 1.024

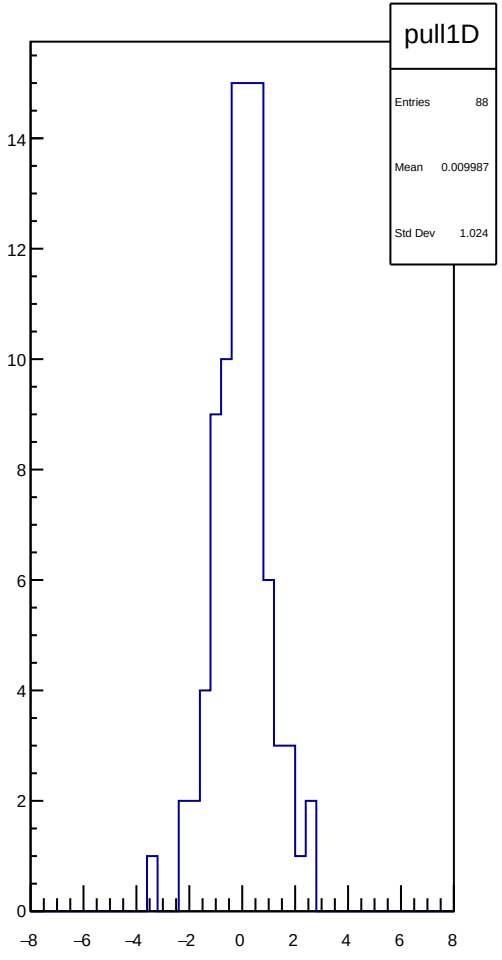

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.488e+04 / 87
p0 355.8 ± 0.276
460
440
420
400
380
360
340
320
300
280
260

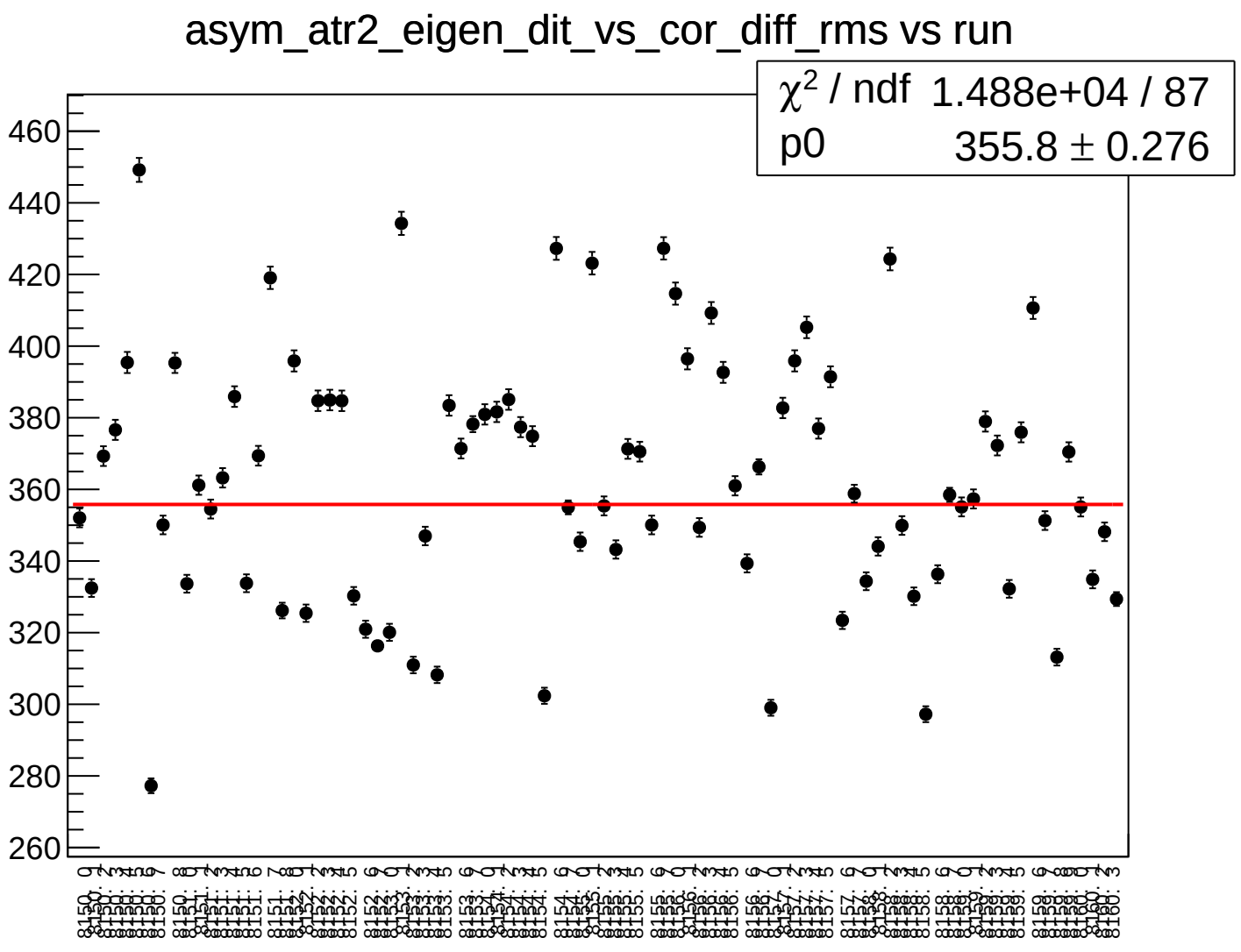

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 101 / 87
p0 −5.192e−05 ± 2.878e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 88
Mean −5617
Std Dev 0
2
1
0
−1
−2

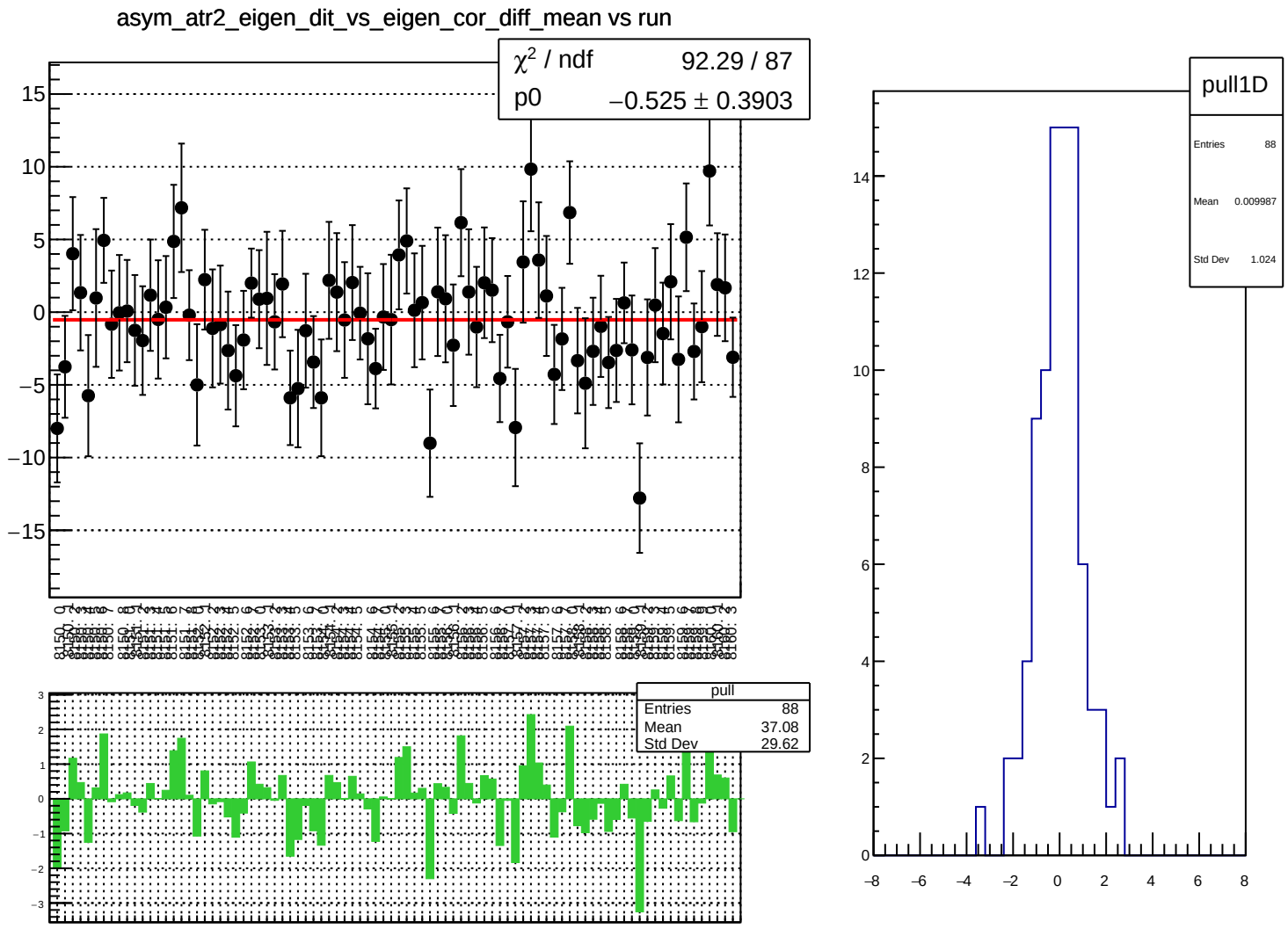

pull1D
Entries 88
Mean 0.0002585
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

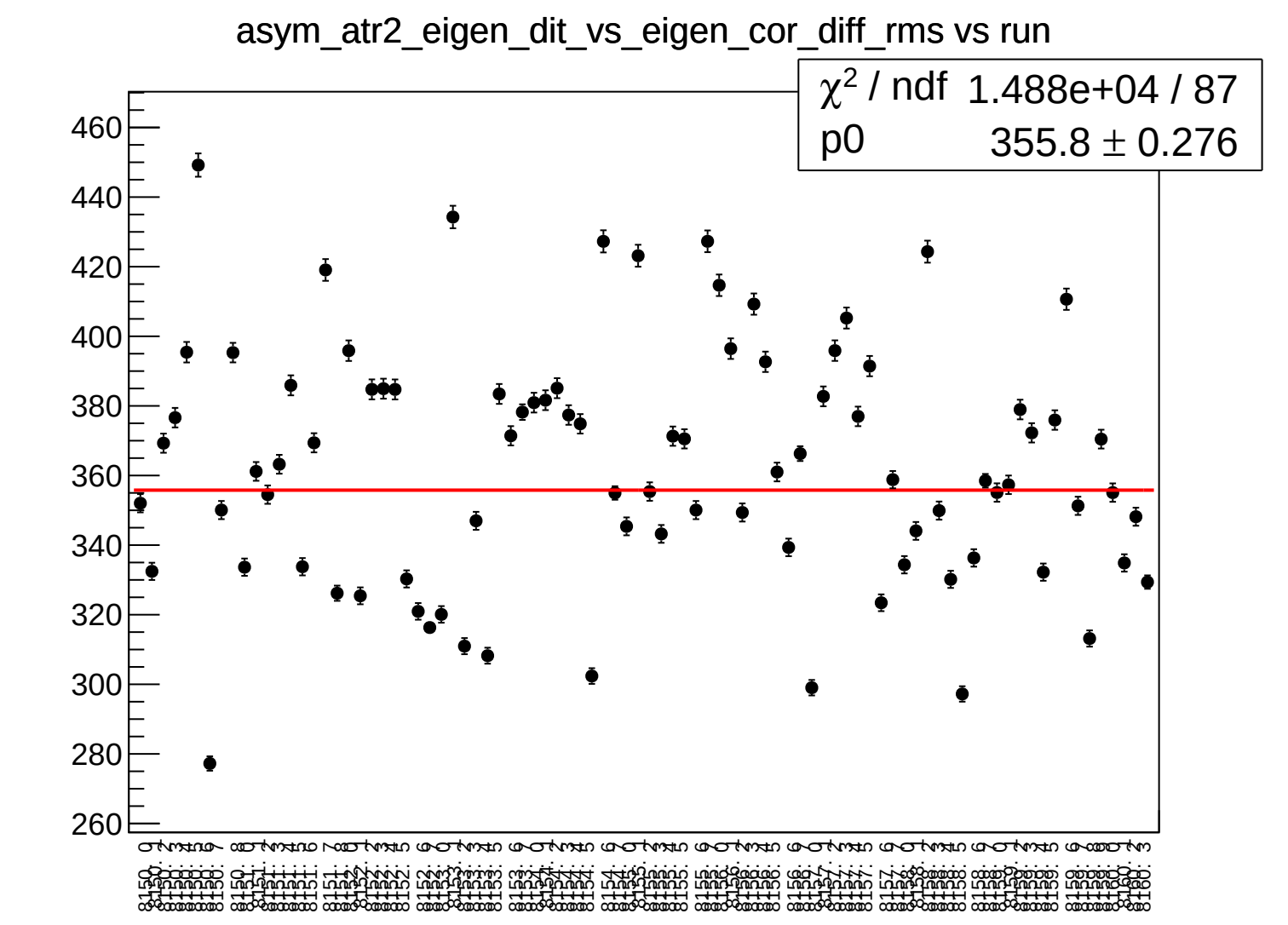

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 943.7 / 87
p0 0.02634 ± 2.035e−05
0.028
0.0275
0.027
0.0265
0.026
0.0255
0.025
0.0245

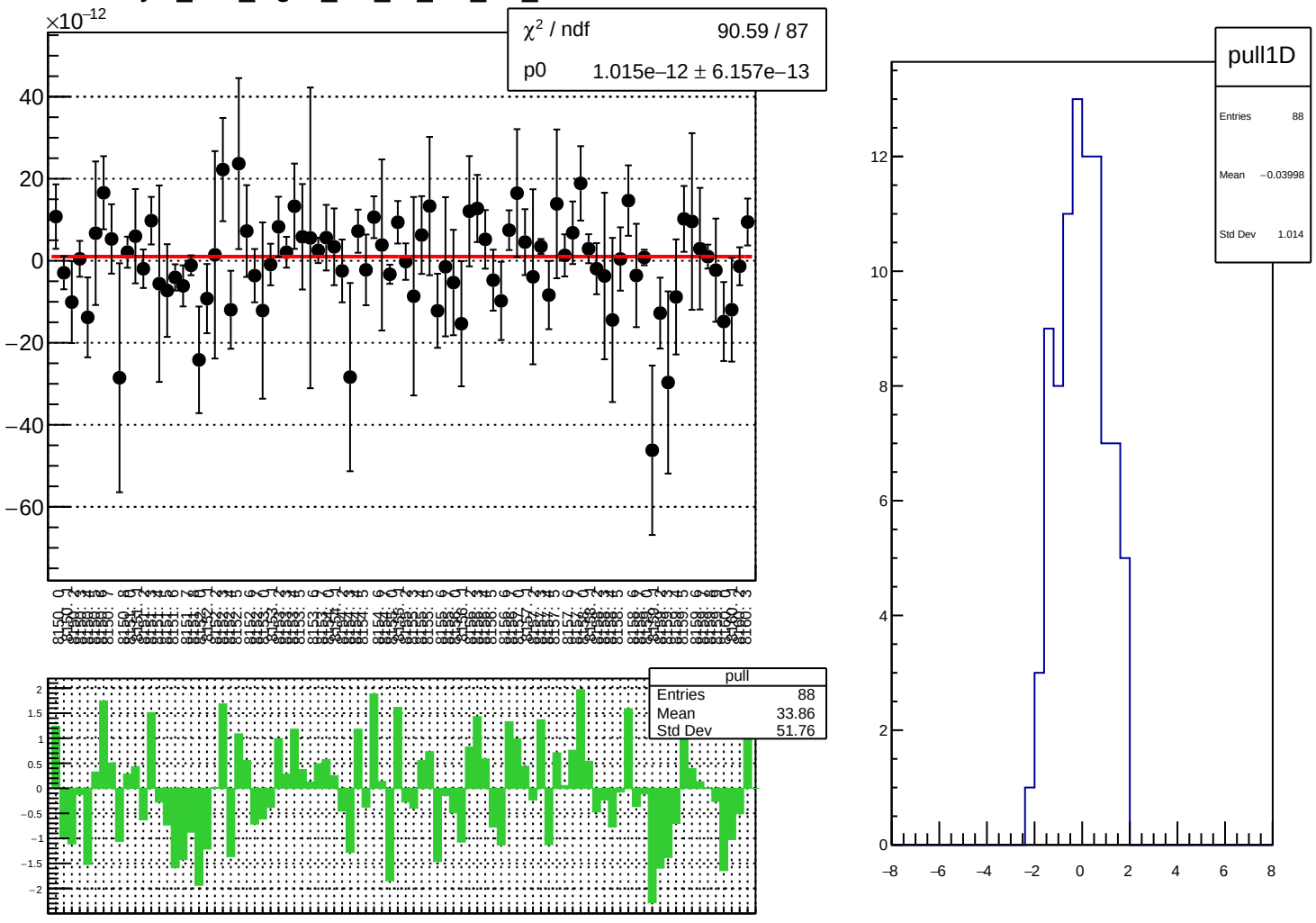

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.29 / 87
p0 −0.525 ± 0.3903
pull
Entries 88
Mean 37.08
Std Dev 29.62

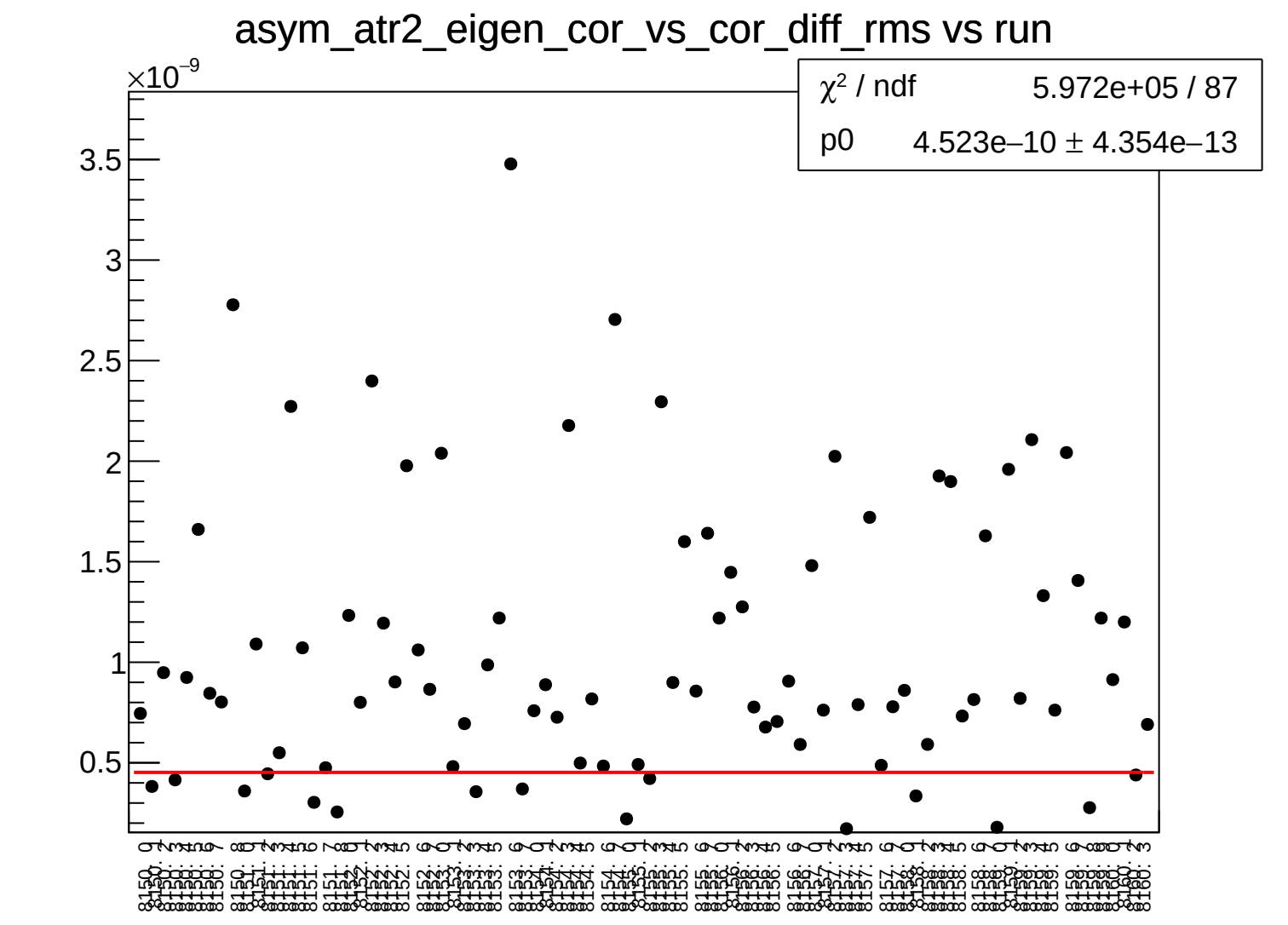

pull1D
Entries 88
Mean 0.009987
Std Dev 1.024

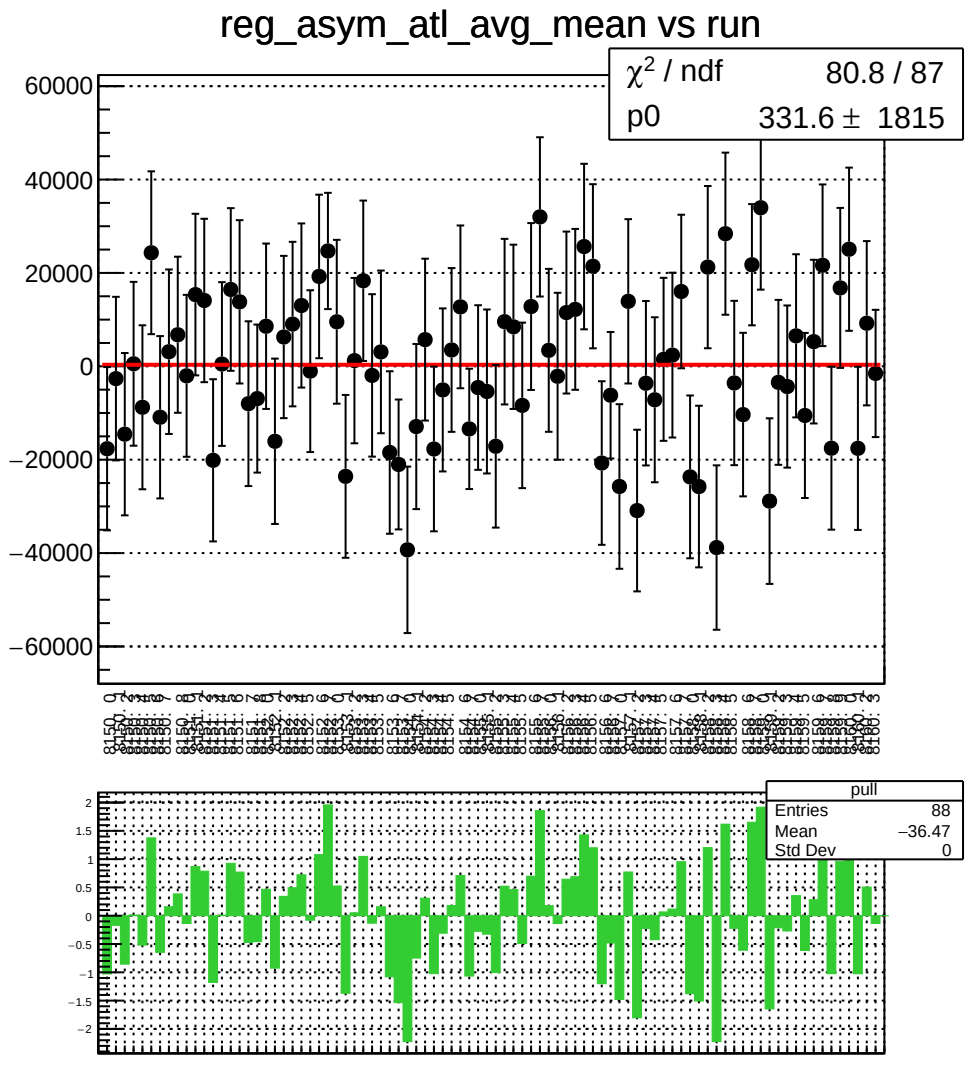

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.488e+04 / 87
p0 355.8 ± 0.276
460
440
420
400
380
360
340
320
300
280
260

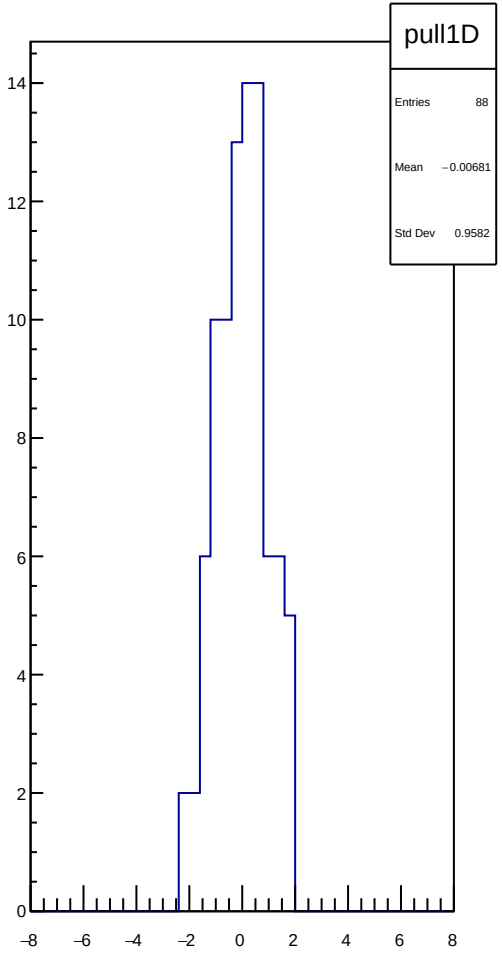

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.29 / 87
p0 −0.525 ± 0.3903
pull
Entries 88
Mean 37.08
Std Dev 29.62
pull1D
Entries 88
Mean 0.009987
Std Dev 1.024

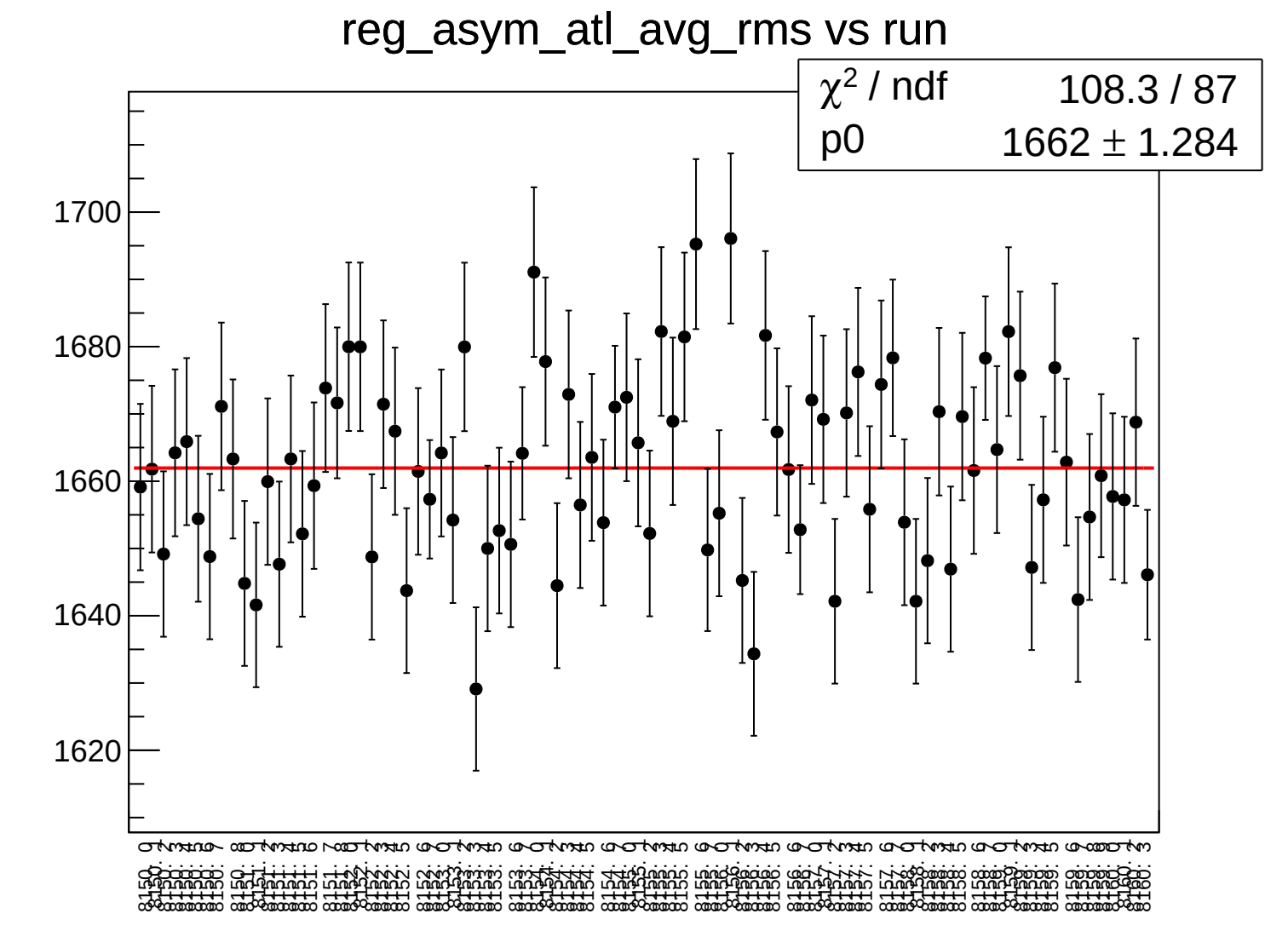

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.488e+04 / 87
p0 355.8 ± 0.276
460
440
420
400
380
360
340
320
300
280
260

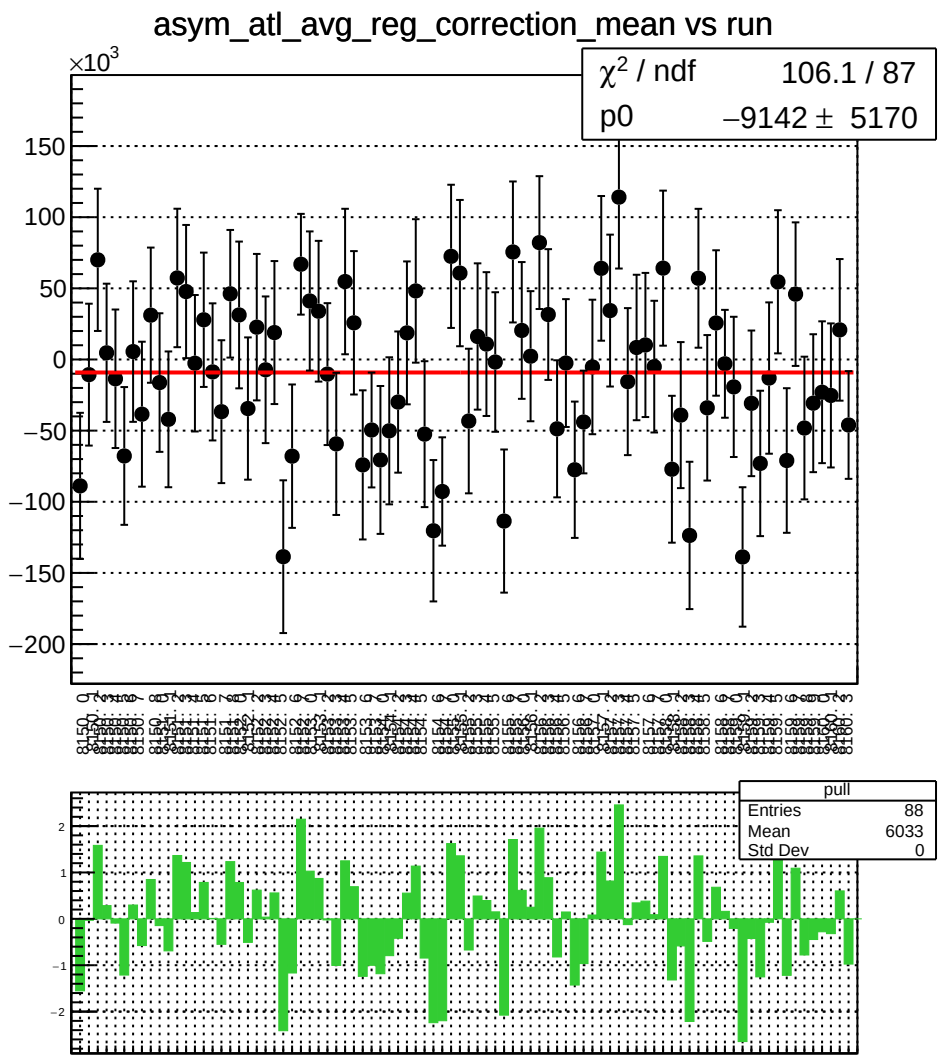

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.59 / 87
p0 1.015e−12 ± 6.157e−13
40
20
0
−20
−40
−60
pull
Entries 88
Mean 33.86
Std Dev 51.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.03998
Std Dev 1.014
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

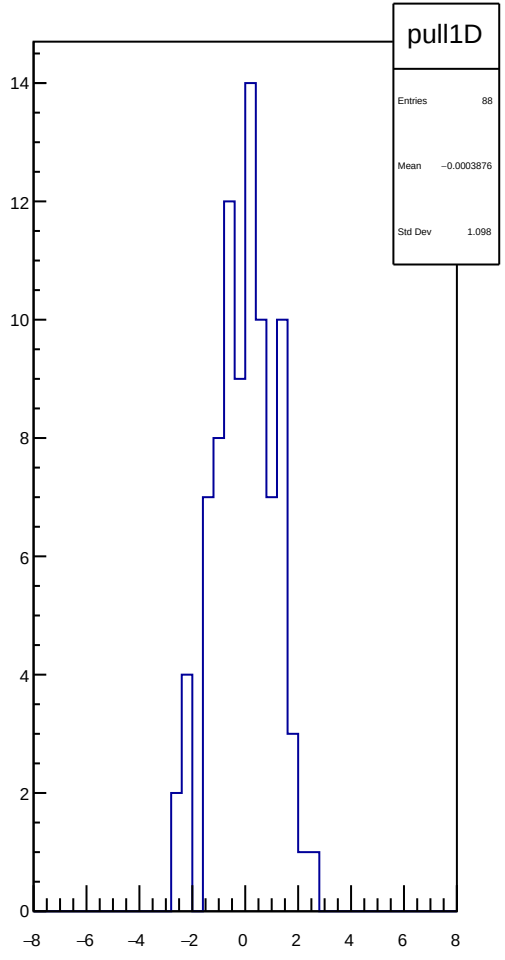

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.972e+05 / 87
p0 4.523e−10 ± 4.354e−13
3.5
3
2.5
2
1.5
1
0.5

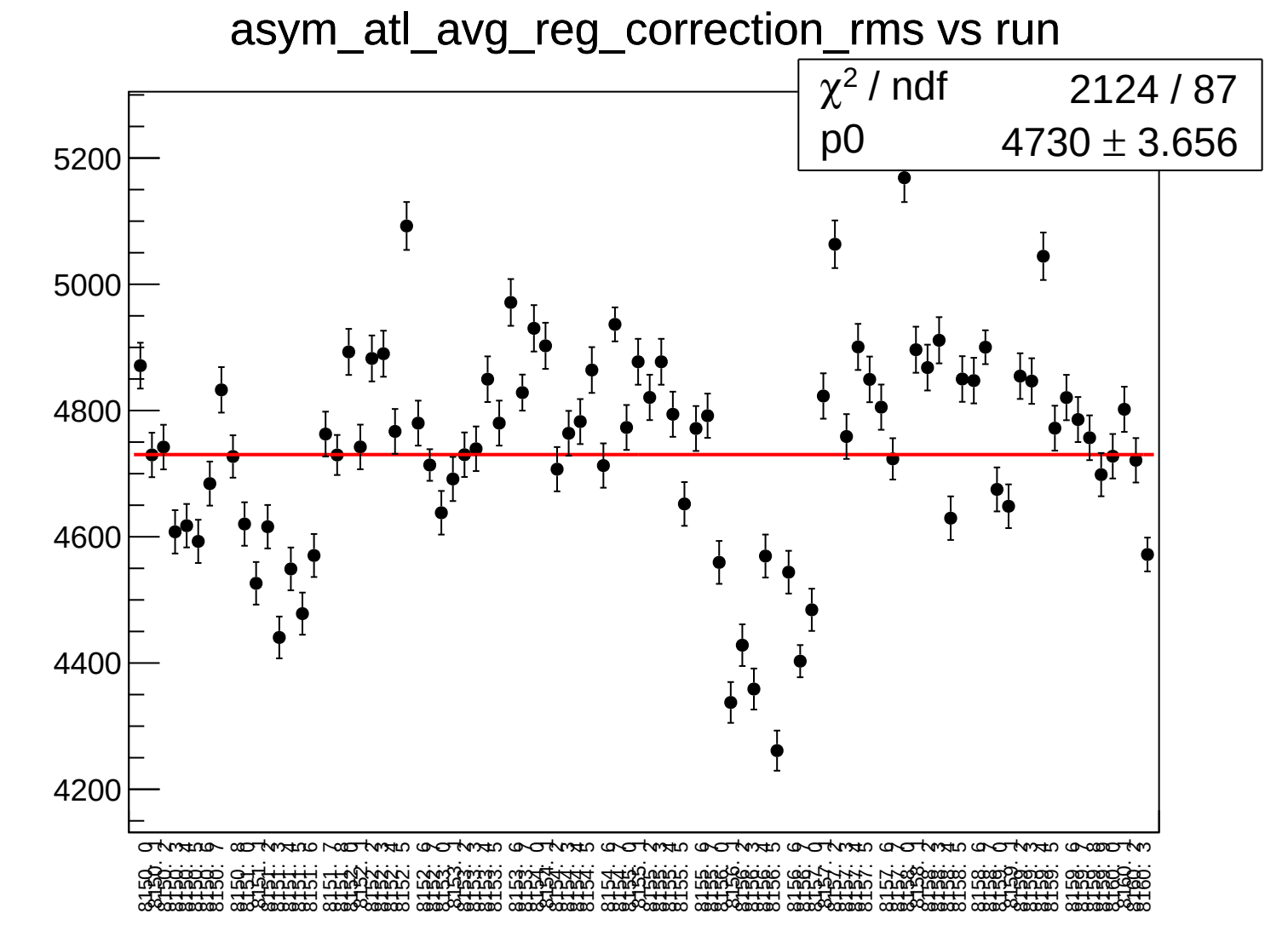

reg_asym_atl_avg_mean vs run
χ² / ndf 80.8 / 87
p0 331.6 ± 1815
pull
Entries 88
Mean −36.47
Std Dev 0

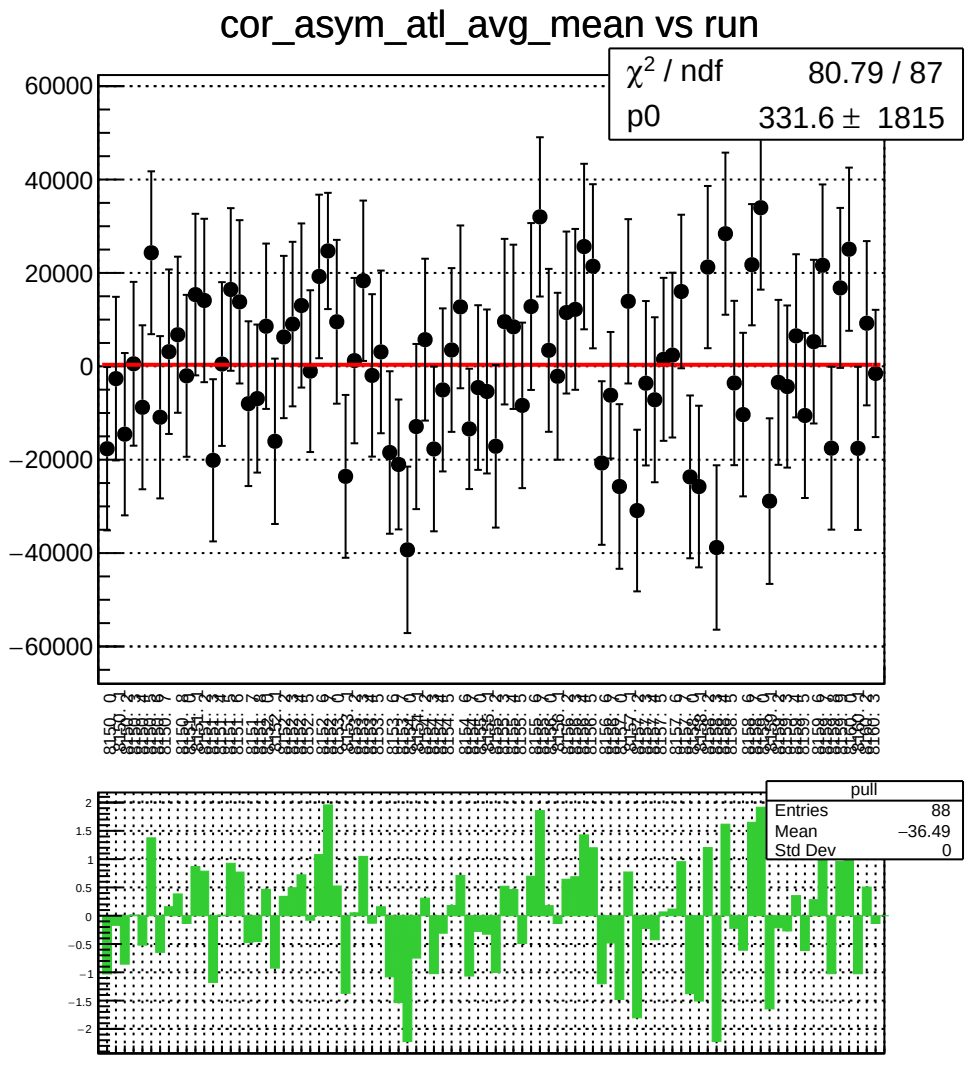

pull1D
Entries 88
Mean −0.00681
Std Dev 0.9582

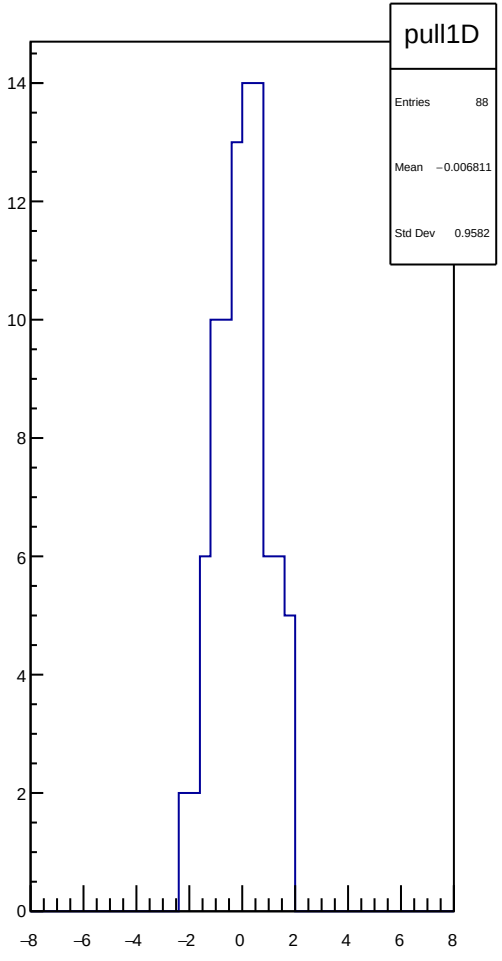

reg_asym_atl_avg_rms vs run
χ^2 / ndf 108.3 / 87
p0 1662 ± 1.284
1700
1680
1660
1640
1620

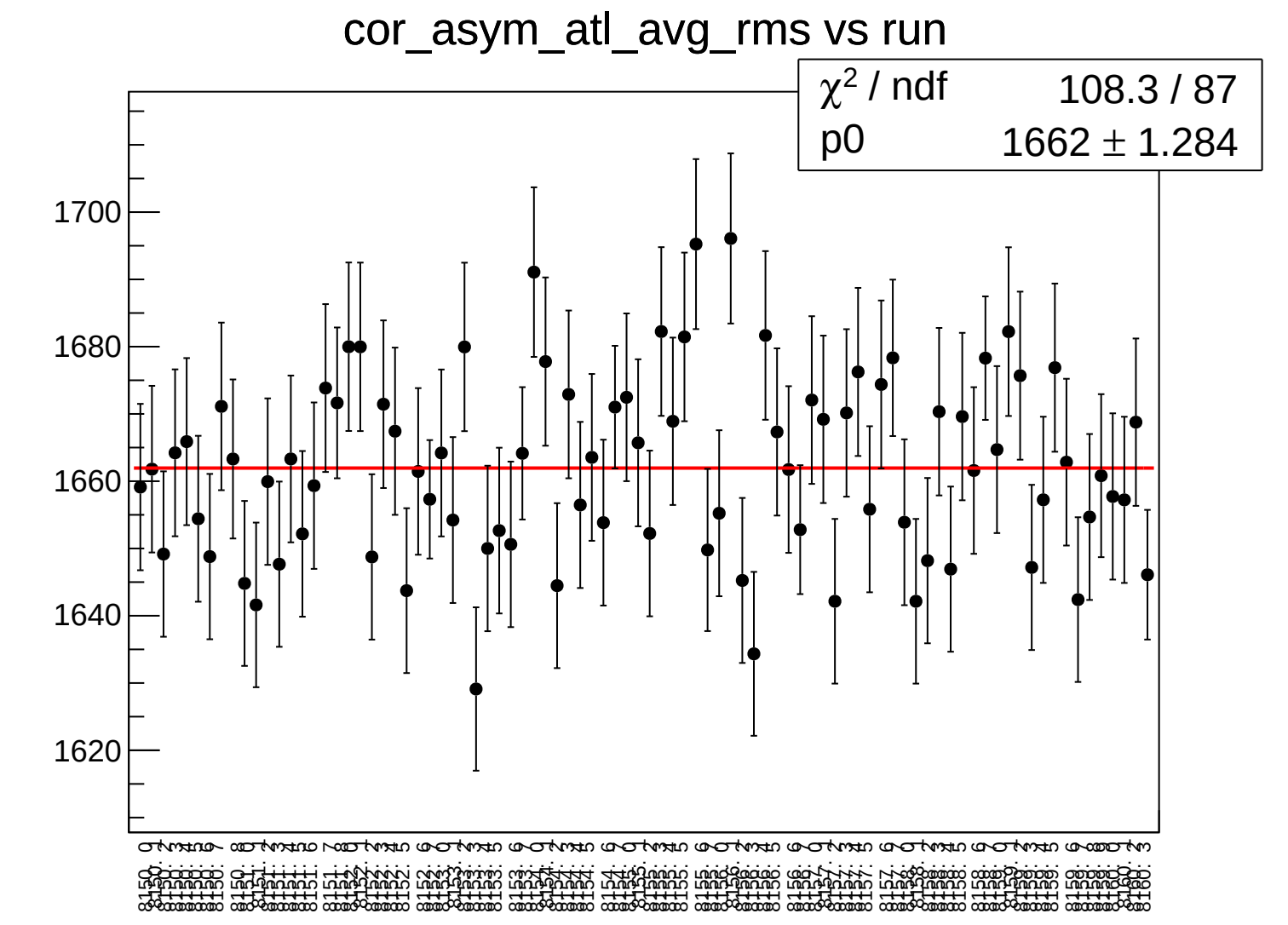

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 106.1 / 87
p0 −9142 ± 5170
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 6033
Std Dev 0
2
1
0
−1
−2

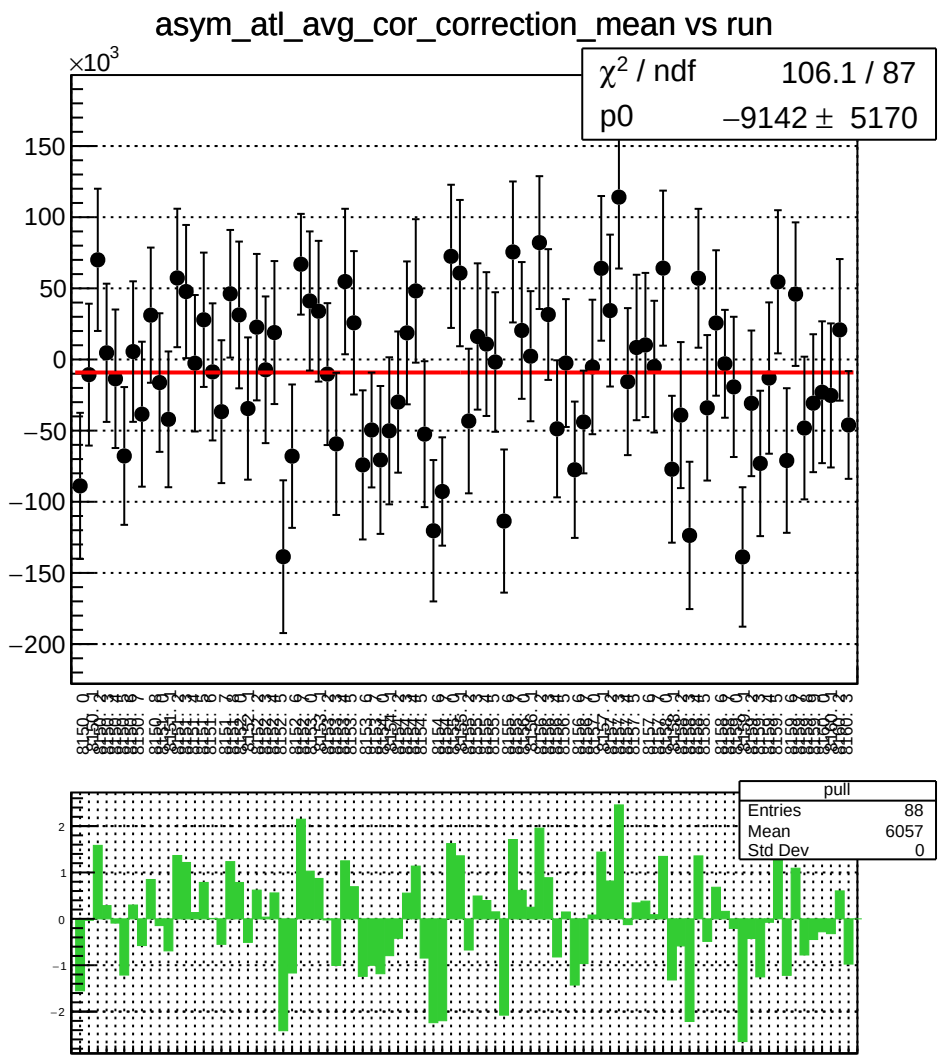

pull1D
Entries 88
Mean −0.0003876
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

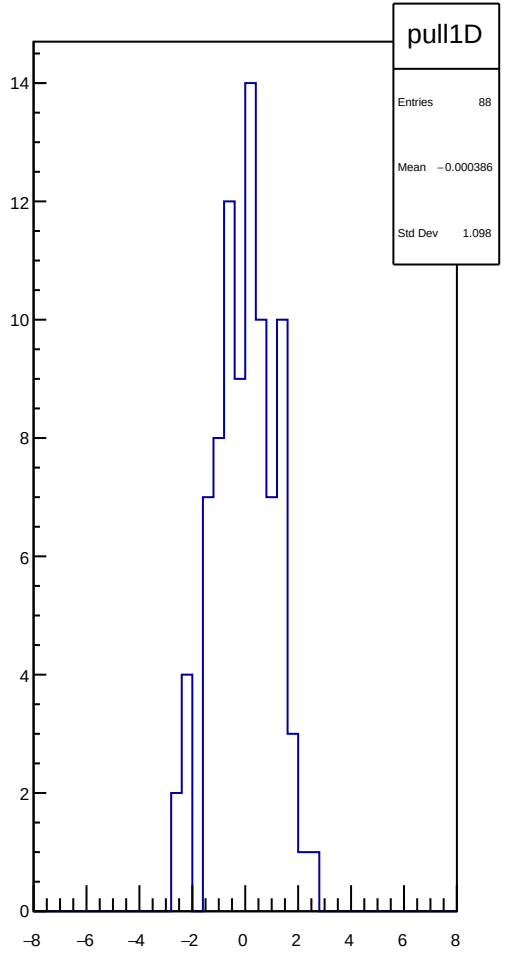

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 2124 / 87
p0 4730 ± 3.656
5200
5000
4800
4600
4400
4200

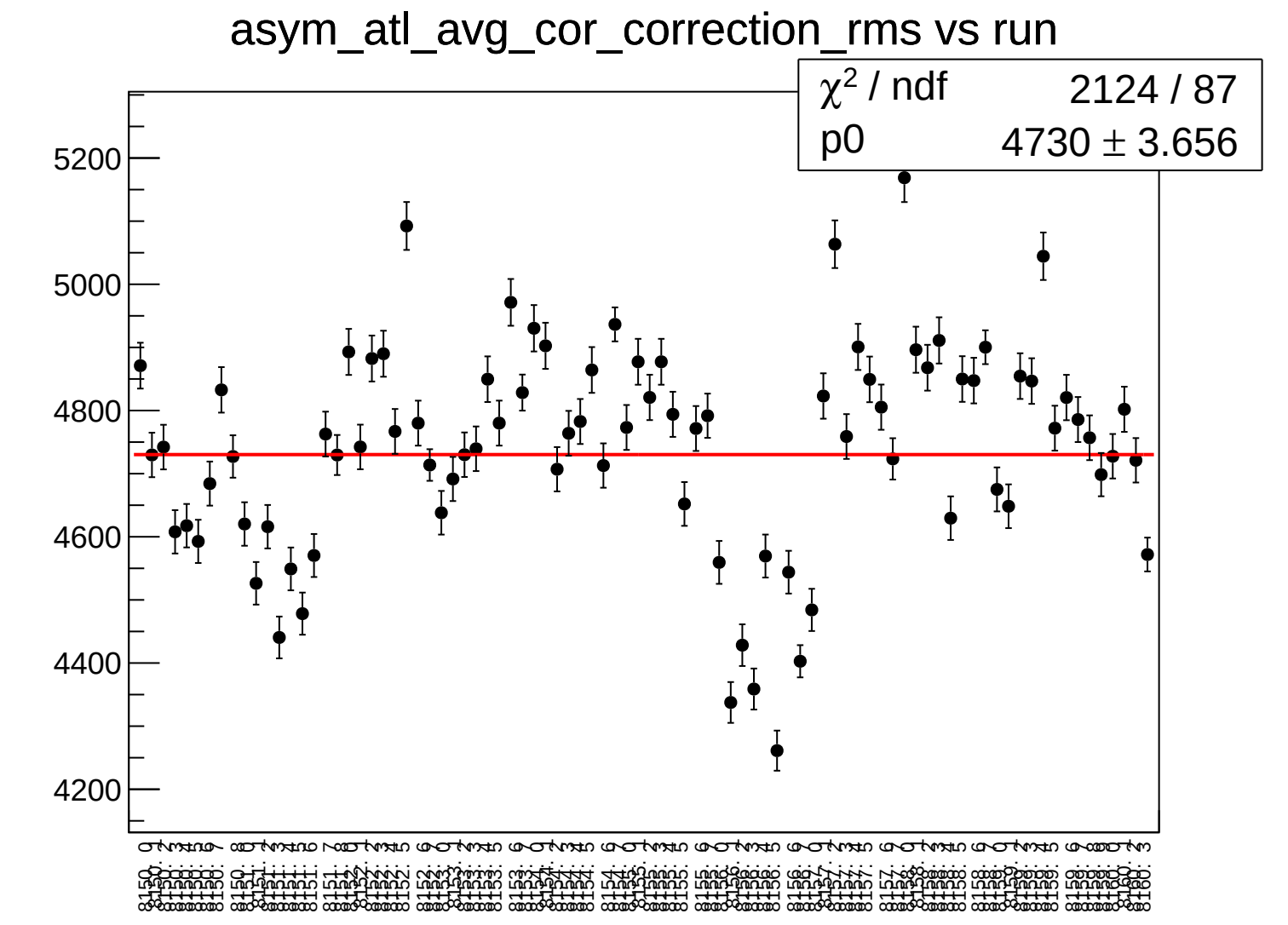

cor_asym_atl_avg_mean vs run
χ² / ndf 80.79 / 87
p0 331.6 ± 1815
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −36.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

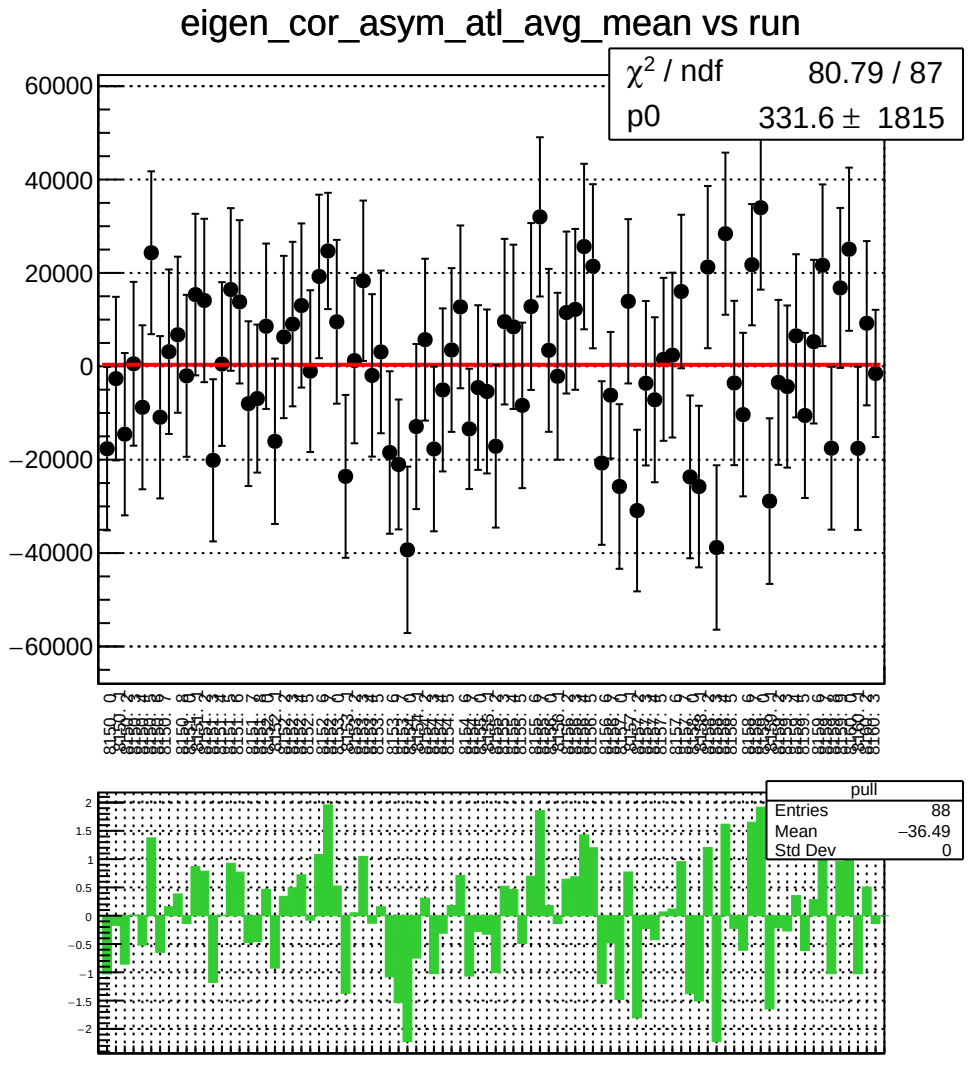

pull1D
Entries 88
Mean −0.006811
Std Dev 0.9582
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

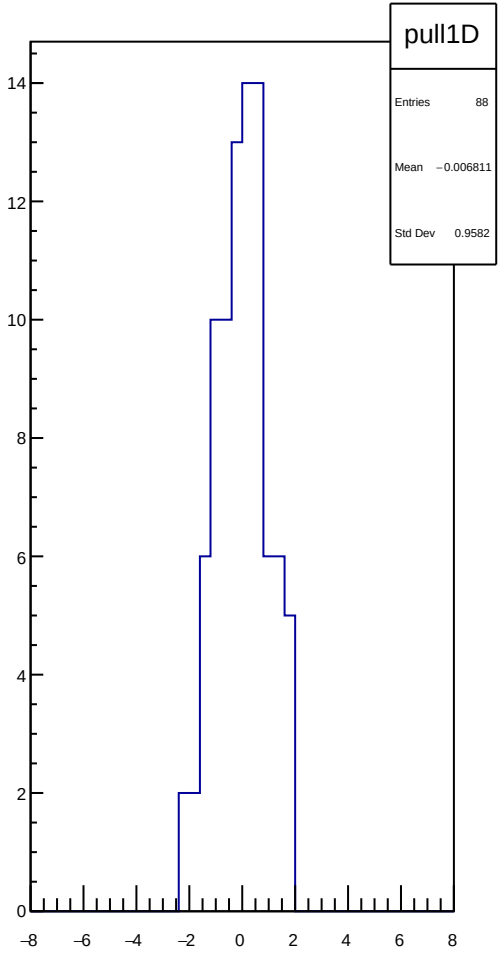

cor_asym_atl_avg_rms vs run
χ^2 / ndf 108.3 / 87
p0 1662 ± 1.284
1700
1680
1660
1640
1620

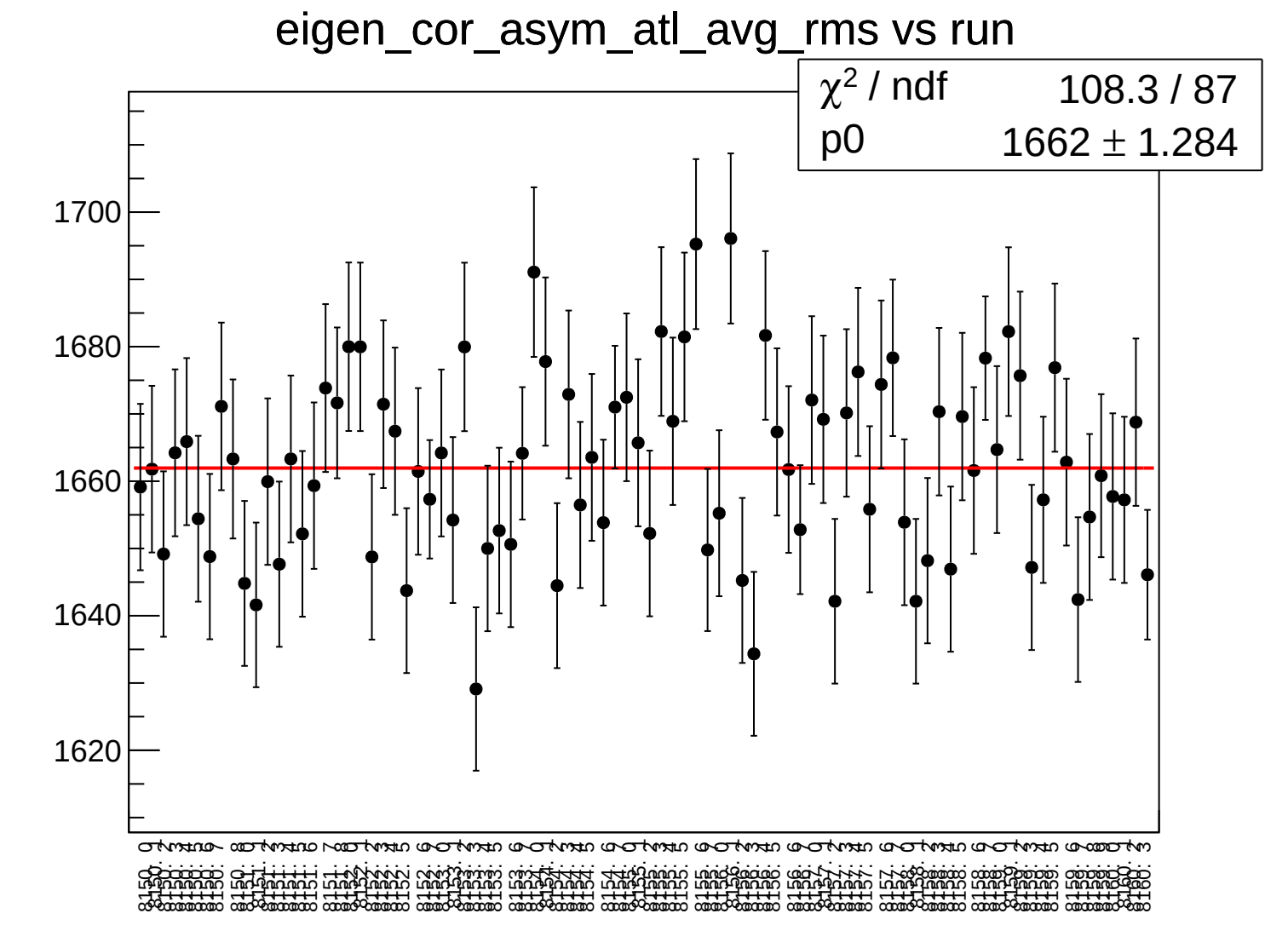

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 106.1 / 87
p0 −9142 ± 5170
×10³
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 6057
Std Dev 0
2
1
0
−1
−2

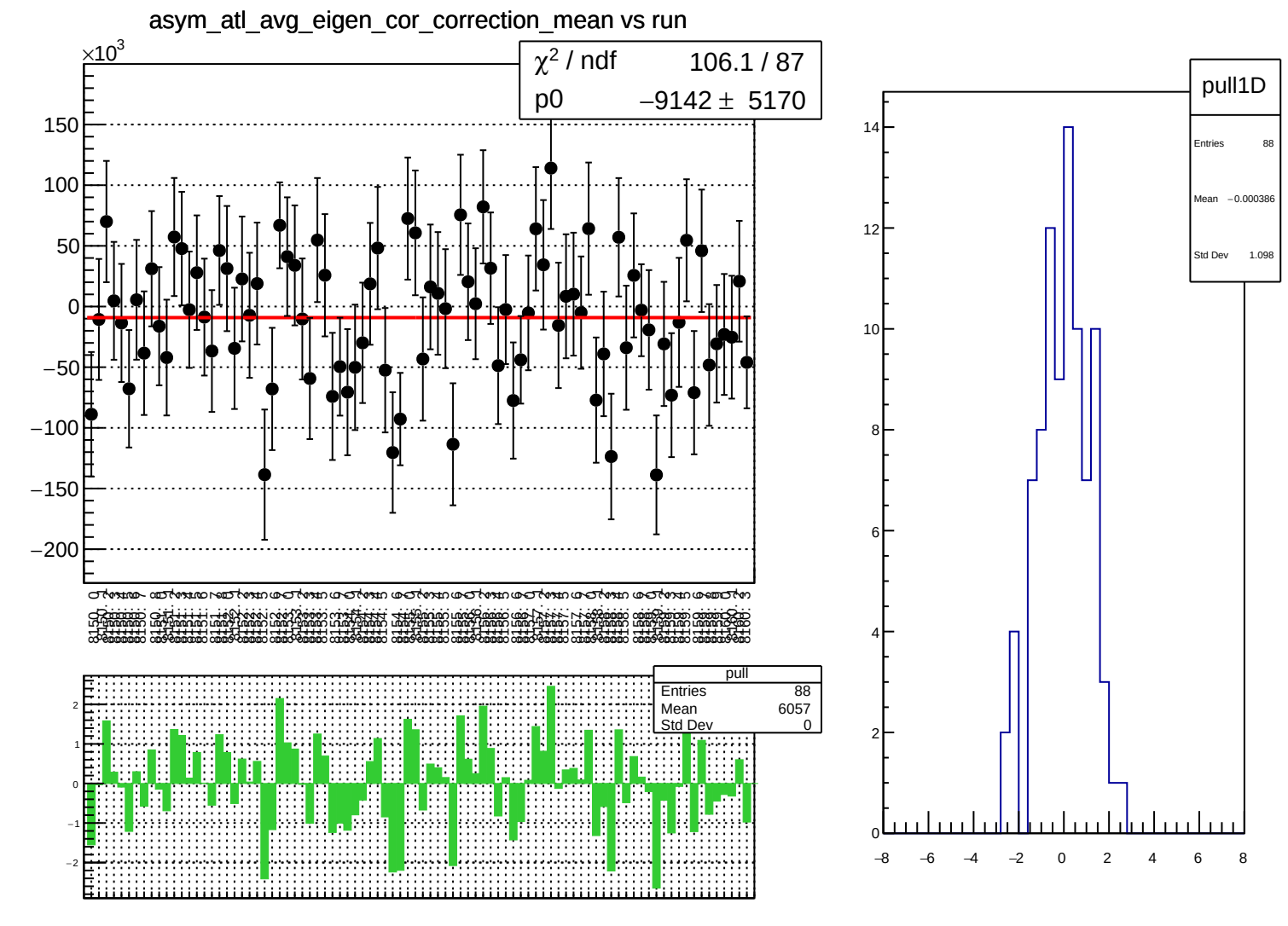

pull1D
Entries 88
Mean −0.000386
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

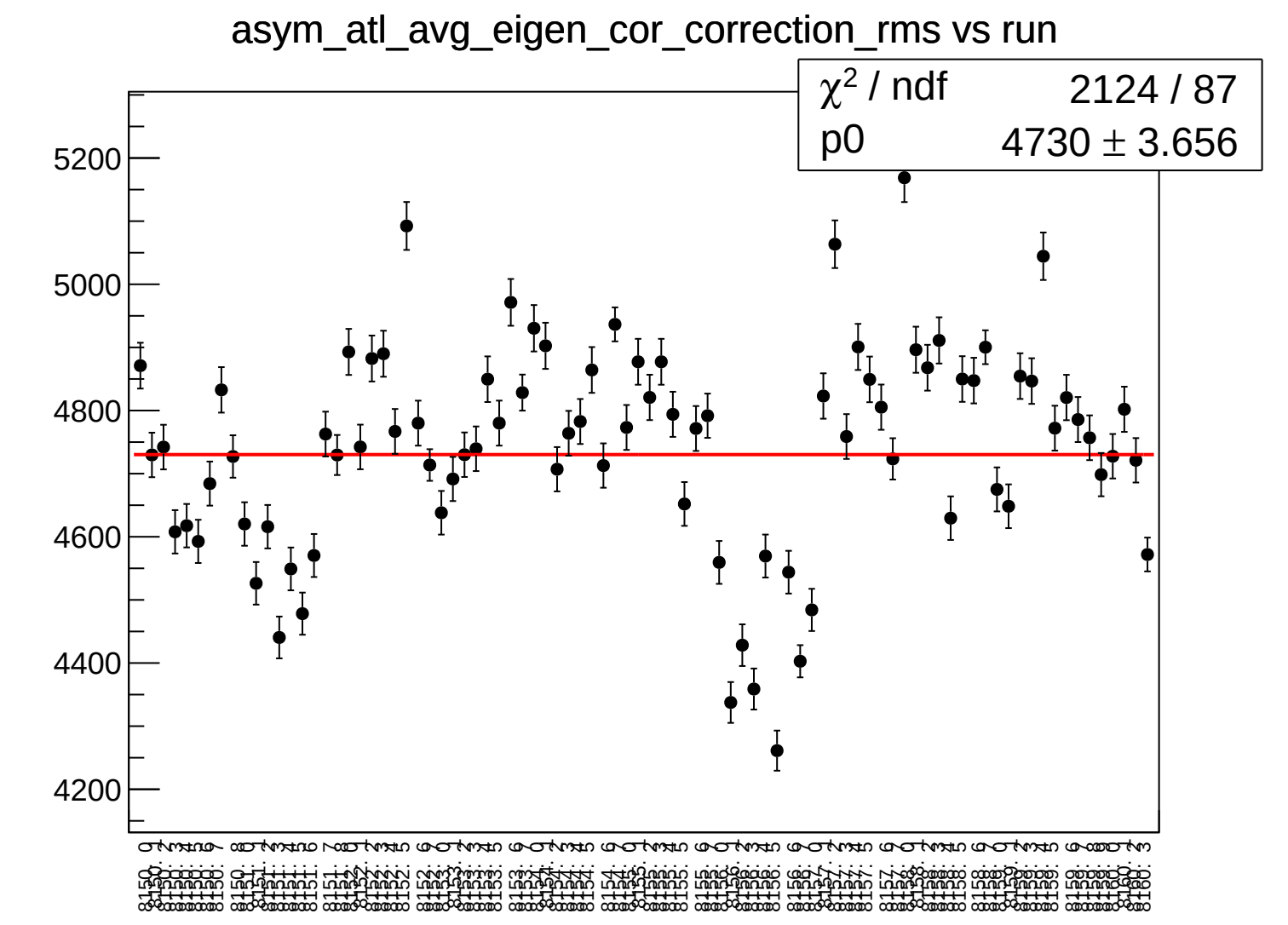

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 2124 / 87
p0 4730 ± 3.656
5200
5000
4800
4600
4400
4200

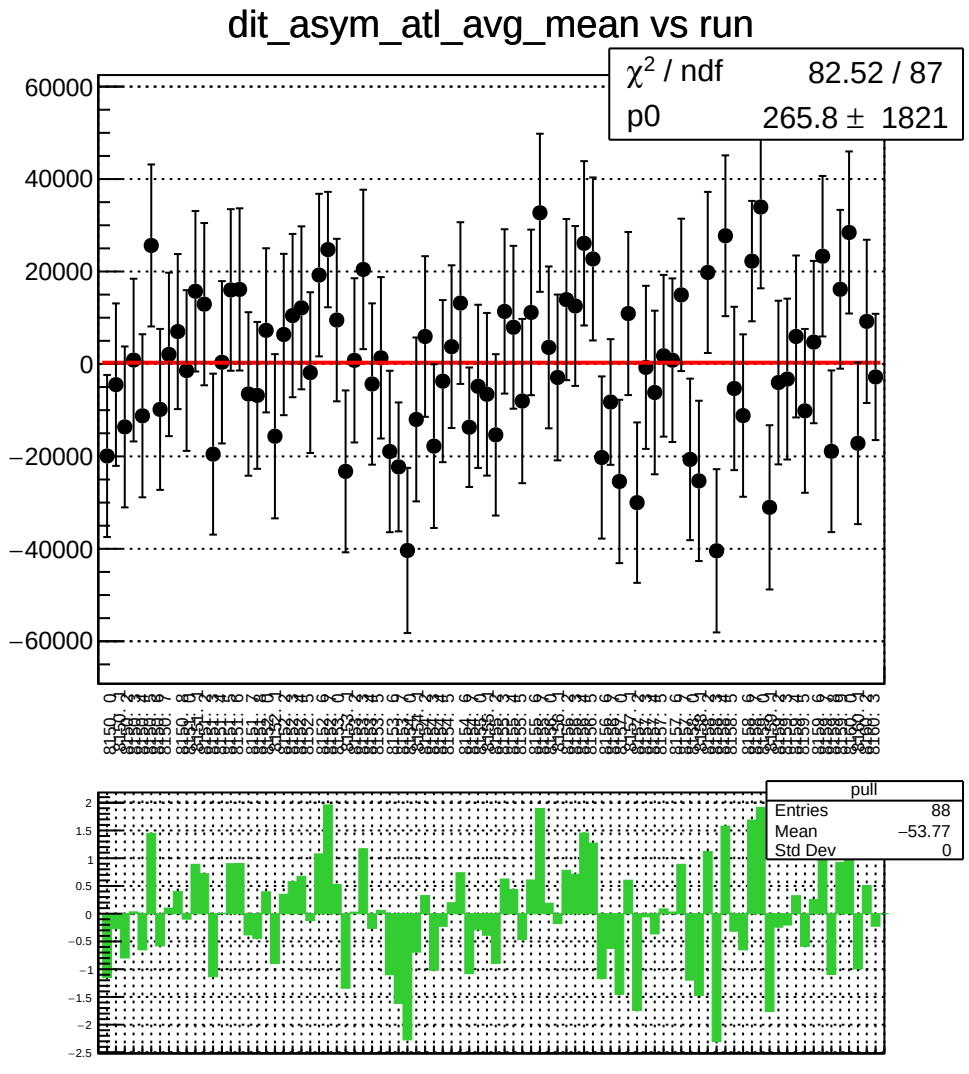

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 80.79 / 87
p0 331.6 ± 1815
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −36.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

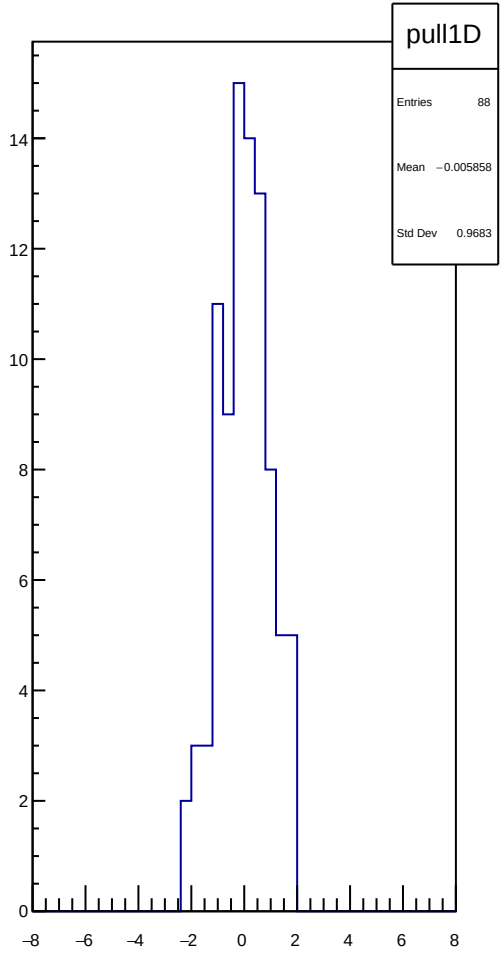

pull1D
Entries 88
Mean −0.006811
Std Dev 0.9582
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

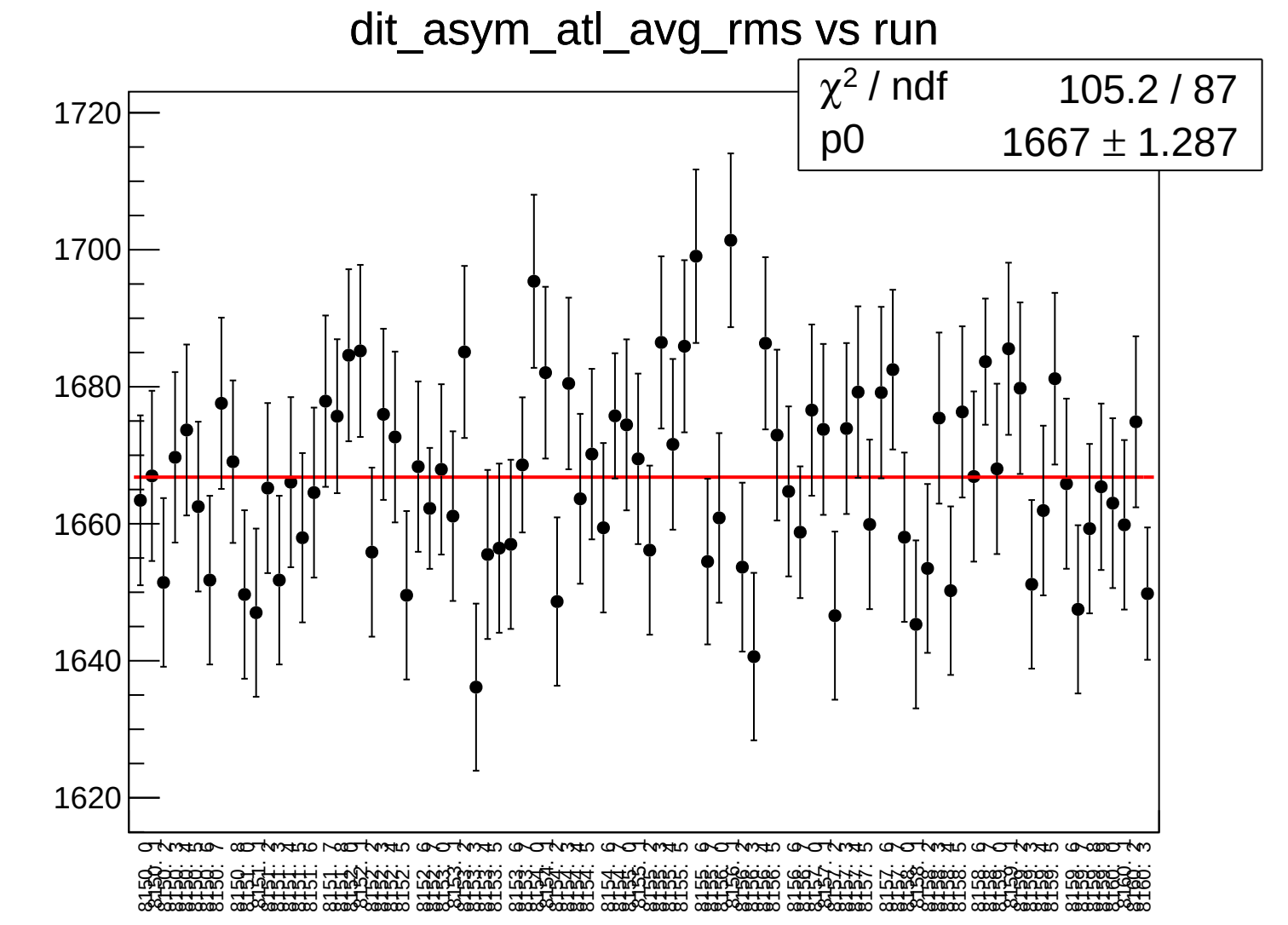

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 108.3 / 87
p0 1662 ± 1.284
1700
1680
1660
1640
1620

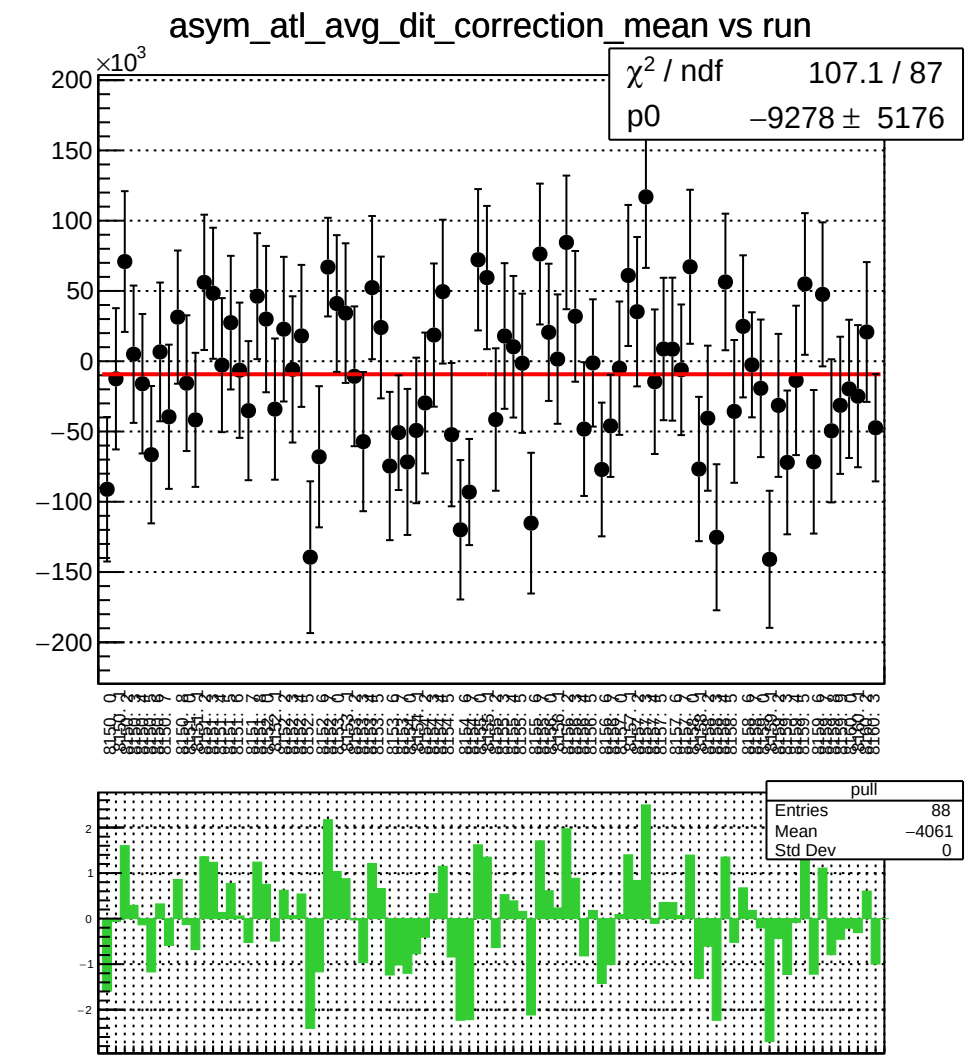

asym_atl_avg_eigen_cor_correction_mean vs run
χ² / ndf 106.1 / 87
p0 −9142 ± 5170
×10³
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 6057
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.000386
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

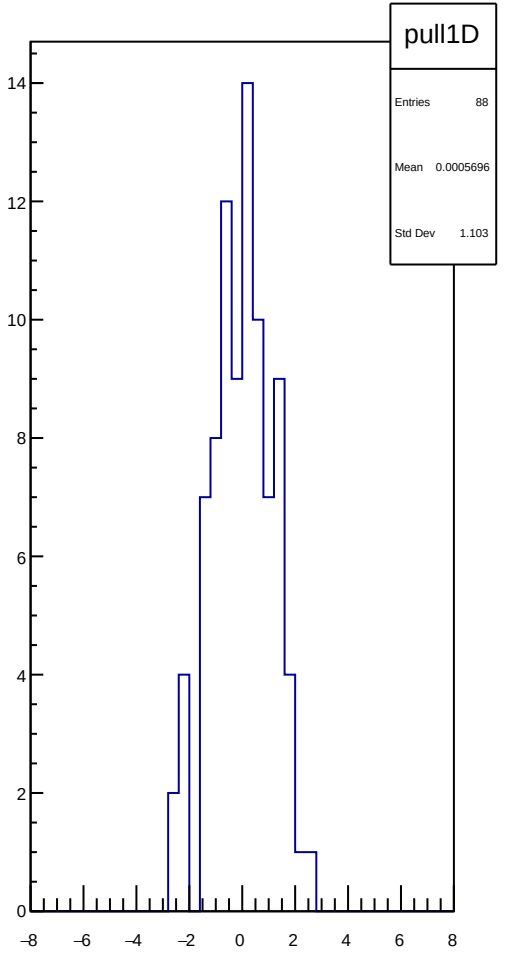

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 2124 / 87
p0 4730 ± 3.656
5200
5000
4800
4600
4400
4200

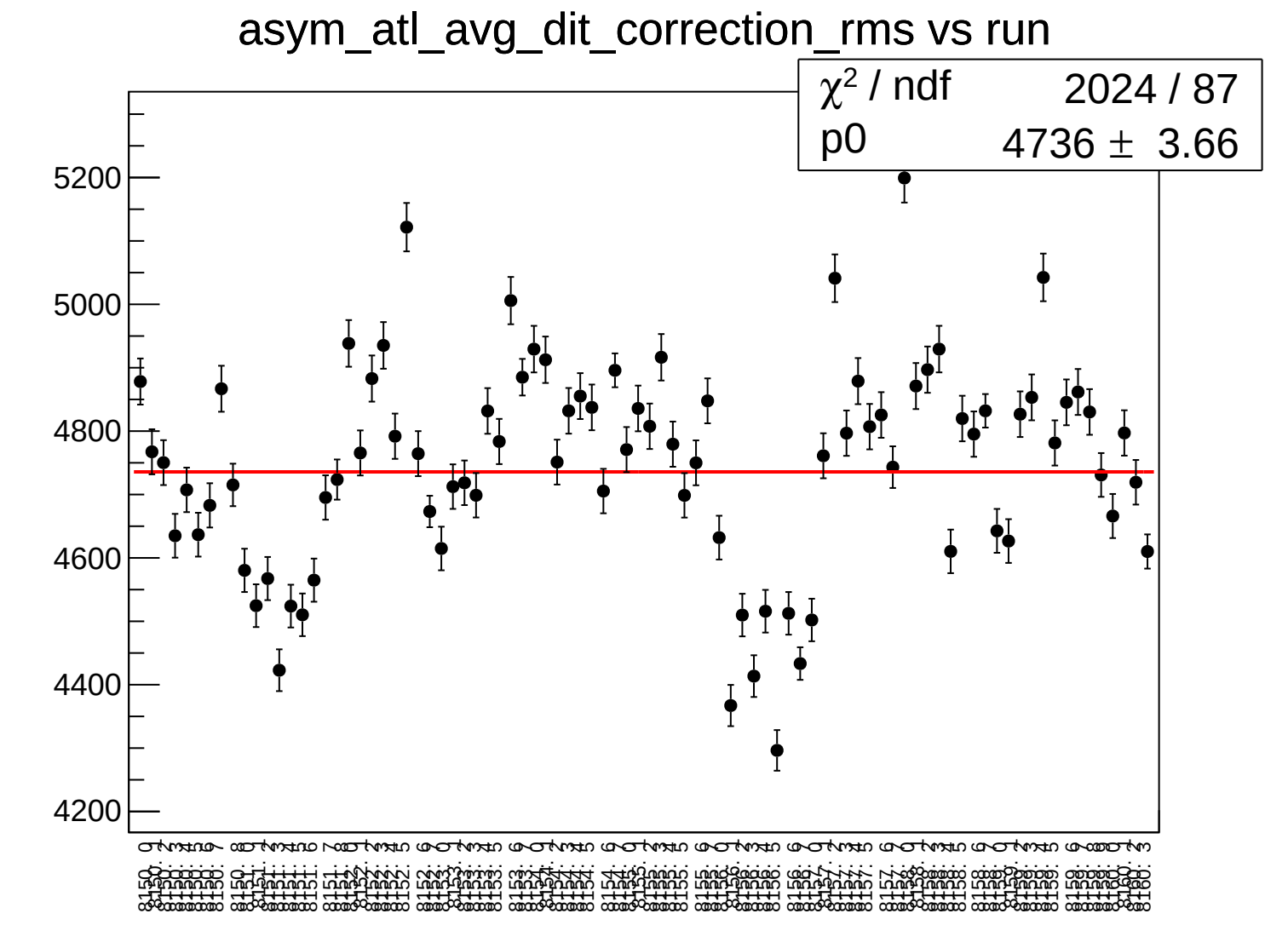

dit_asym_atl_avg_mean vs run
χ² / ndf 82.52 / 87
p0 265.8 ± 1821
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −53.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

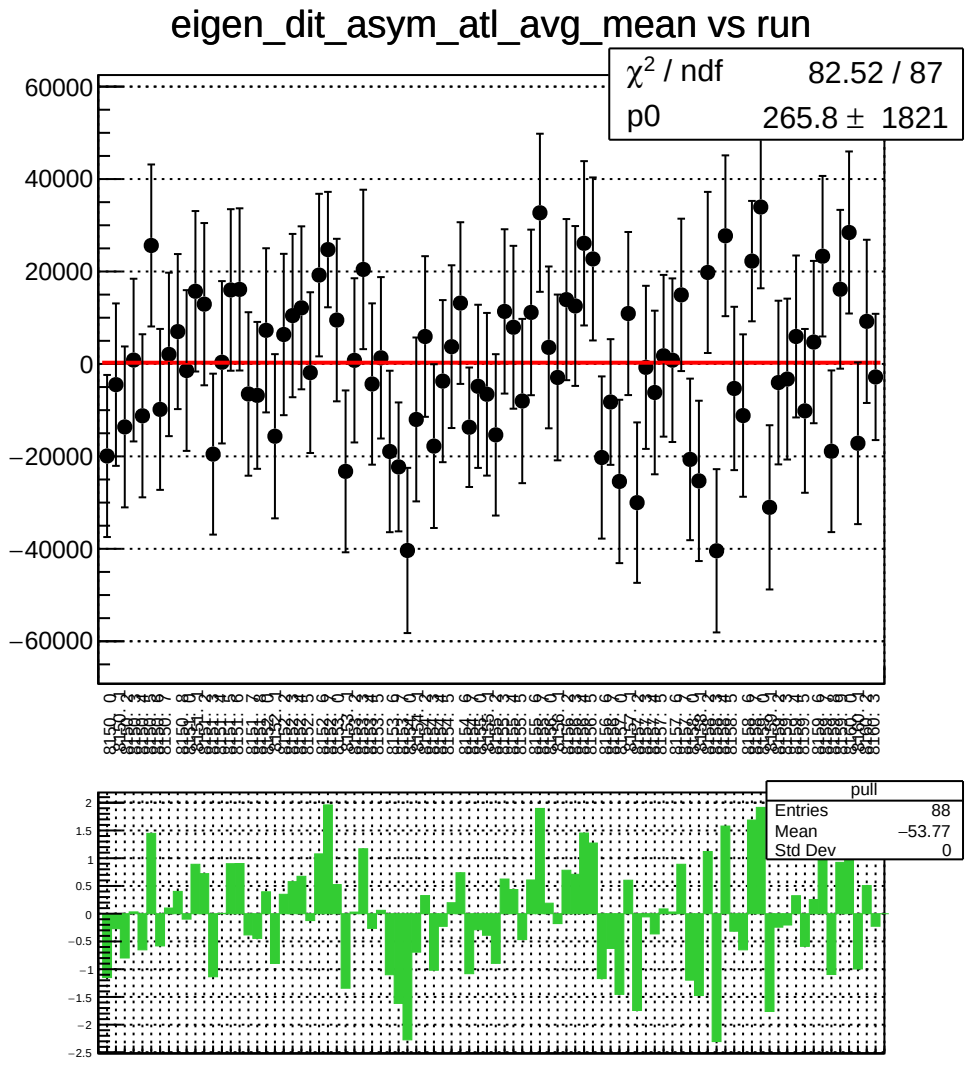

pull1D
Entries 88
Mean −0.005858
Std Dev 0.9683
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

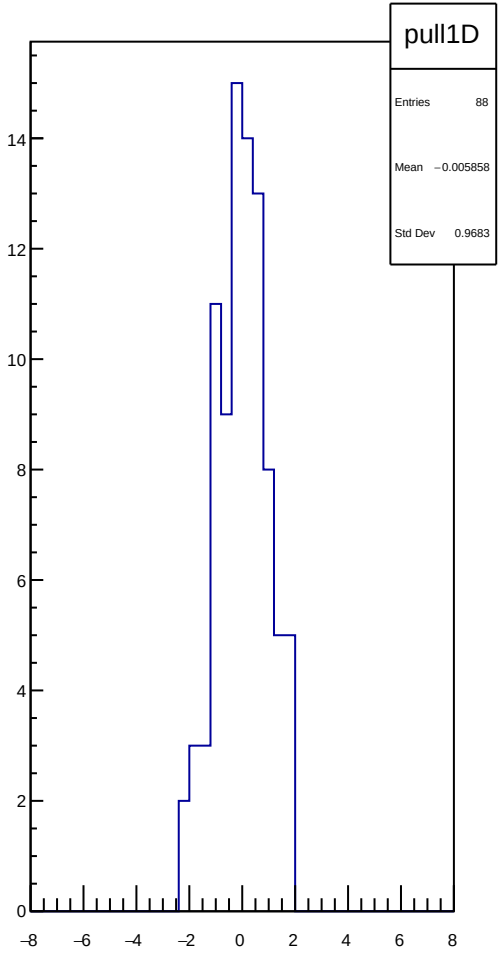

dit_asym_atl_avg_rms vs run
χ² / ndf 105.2 / 87
p0 1667 ± 1.287
1720
1700
1680
1660
1640
1620

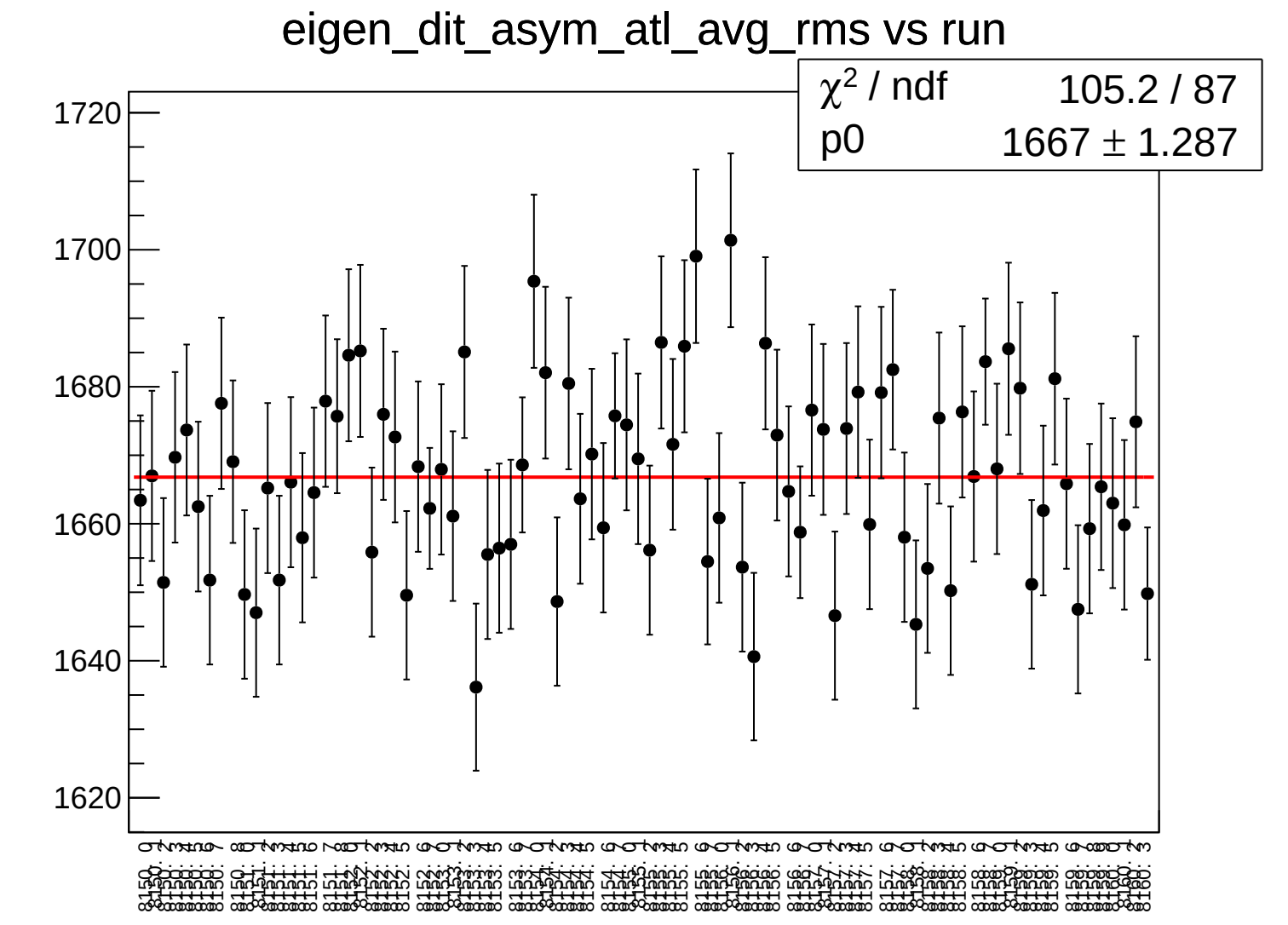

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107.1 / 87
p0 −9278 ± 5176
pull
Entries 88
Mean −4061
Std Dev 0

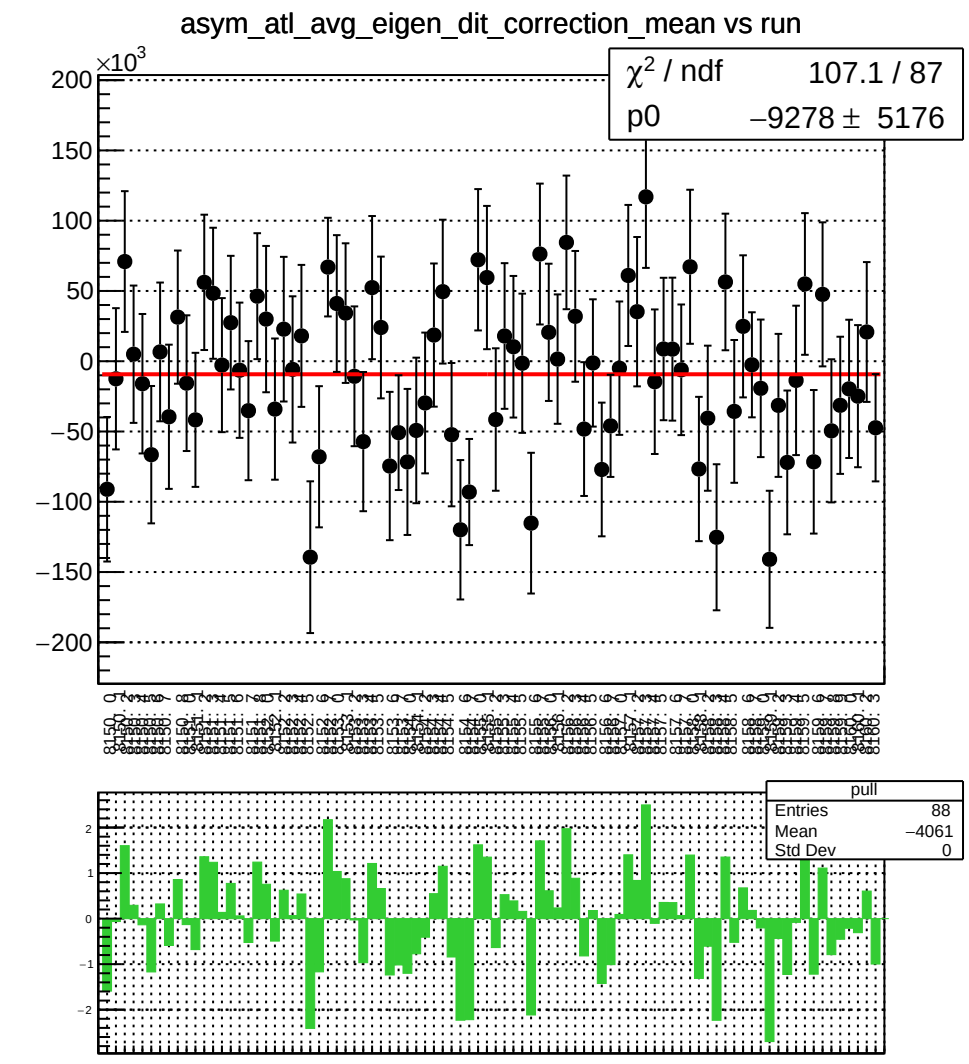

pull1D
Entries 88
Mean 0.0005696
Std Dev 1.103

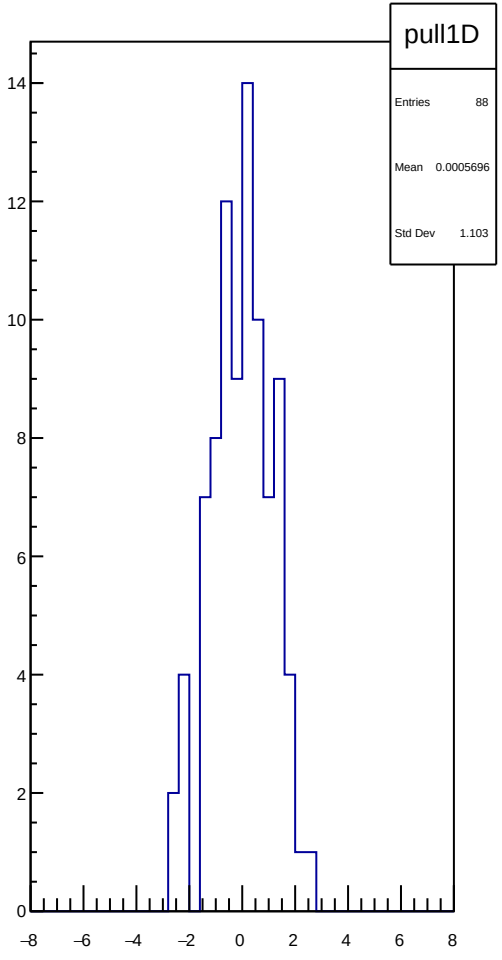

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 2024 / 87
p0 4736 ± 3.66
5200
5000
4800
4600
4400
4200

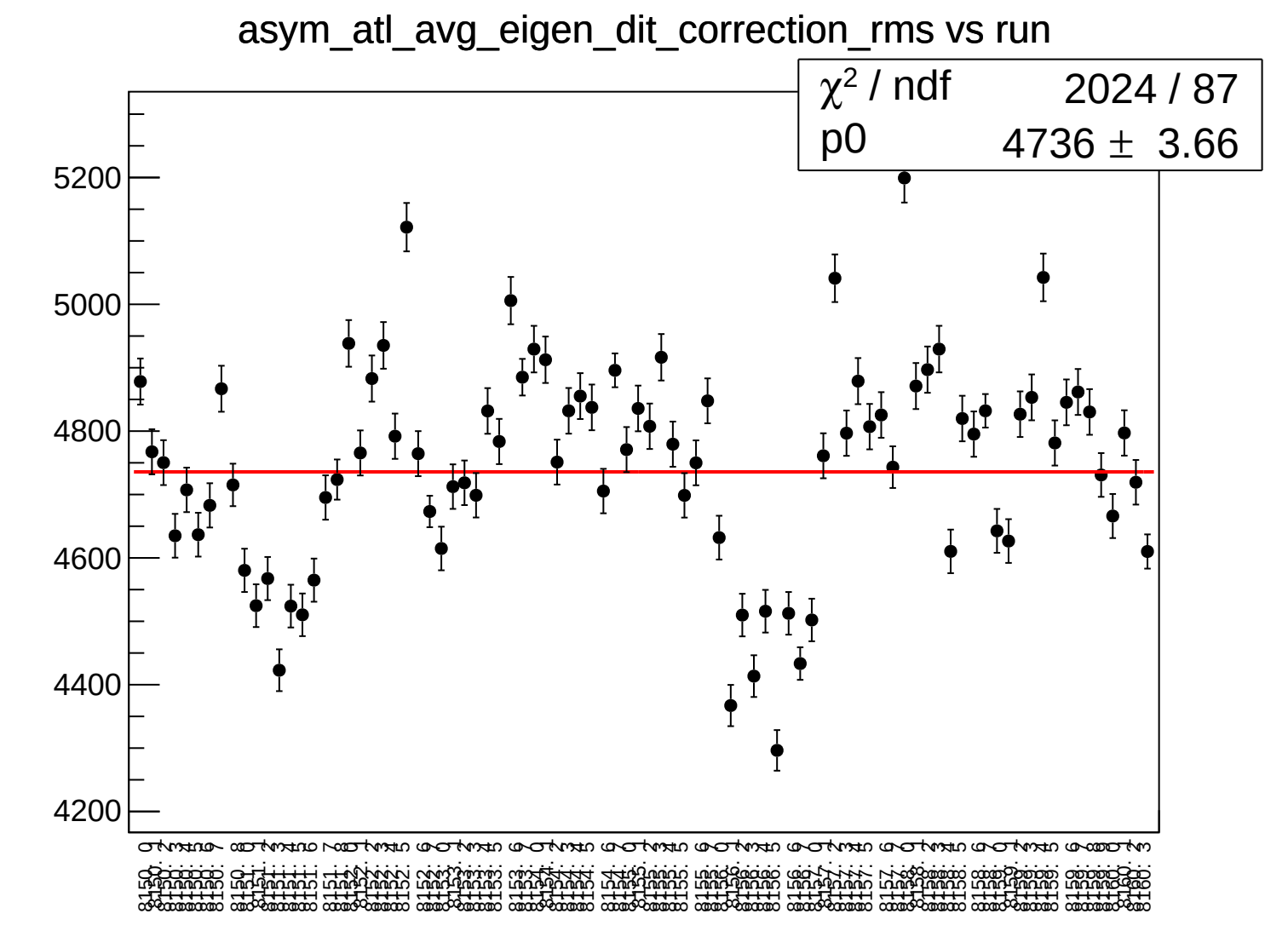

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 82.52 / 87
p0 265.8 ± 1821
pull
Entries 88
Mean −53.77
Std Dev 0

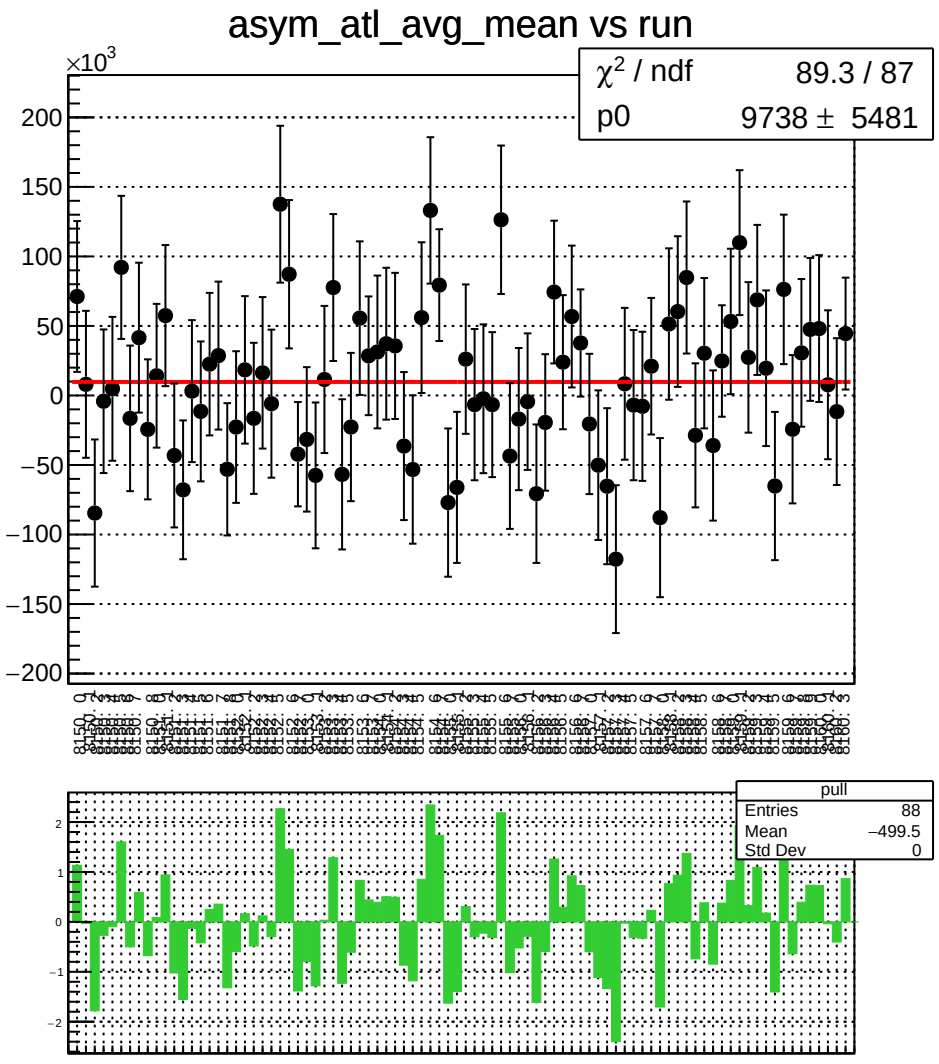

pull1D
Entries 88
Mean −0.005858
Std Dev 0.9683

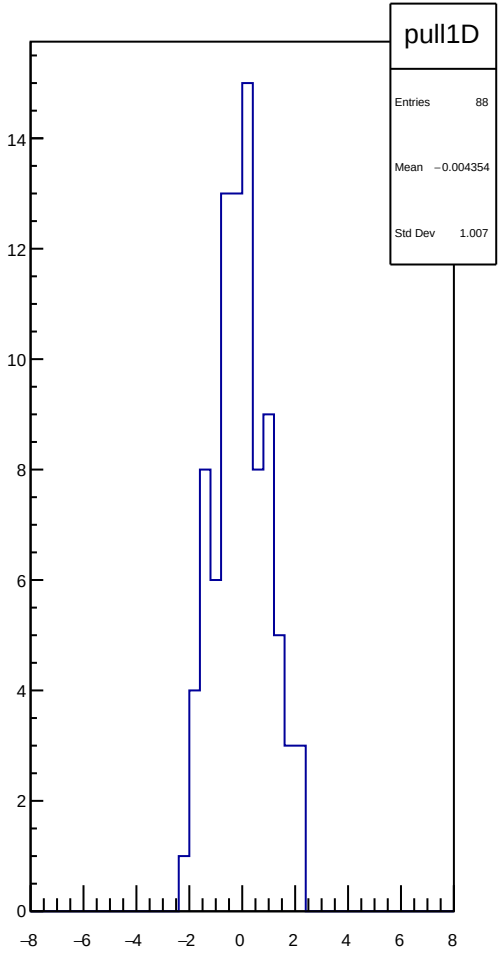

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 105.2 / 87
p0 1667 ± 1.287
1720
1700
1680
1660
1640
1620

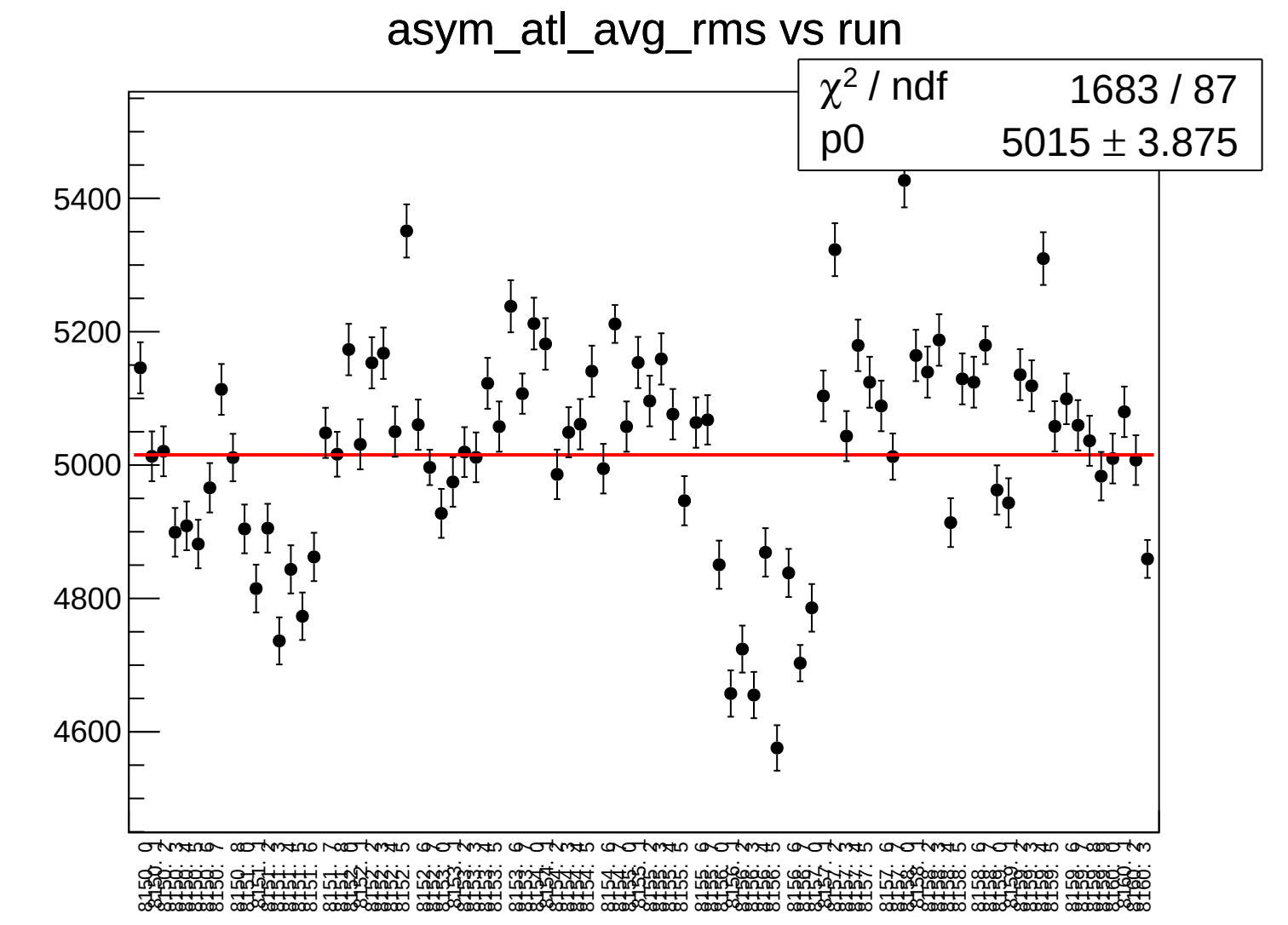

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.1 / 87
p0 −9278 ± 5176
pull
Entries 88
Mean −4061
Std Dev 0

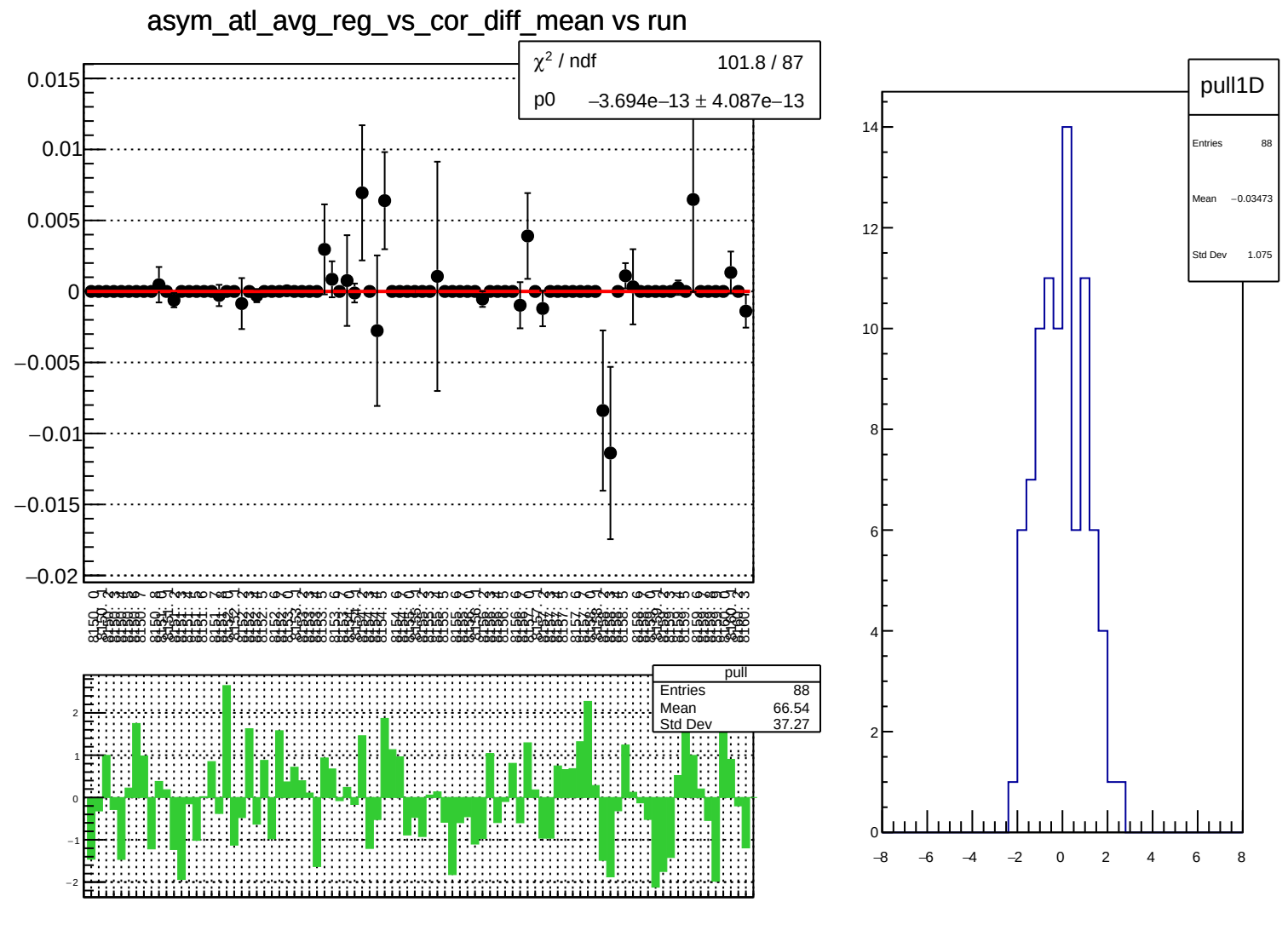

pull1D
Entries 88
Mean 0.0005696
Std Dev 1.103

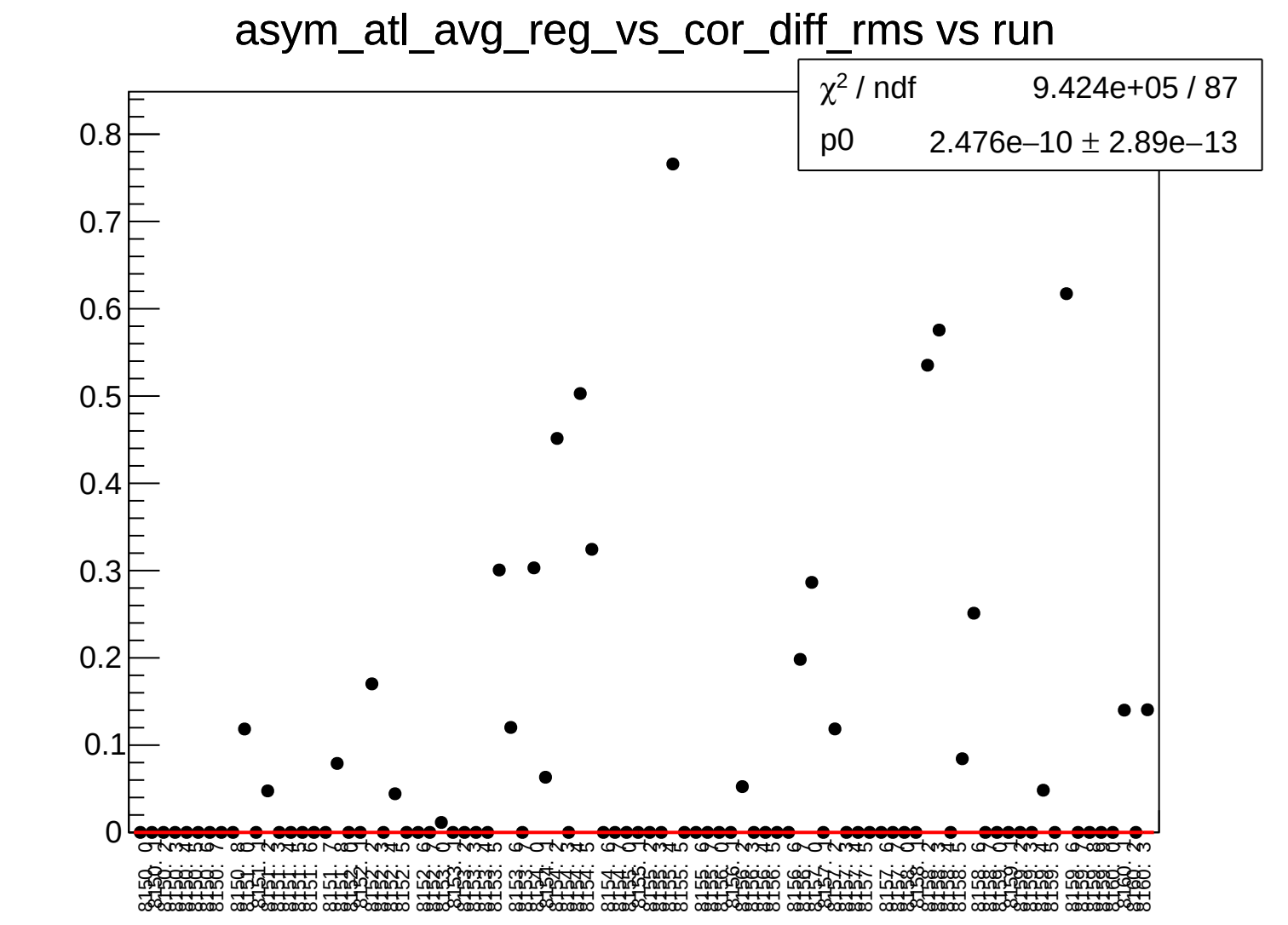

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 2024 / 87
p0 4736 ± 3.66
5200
5000
4800
4600
4400
4200

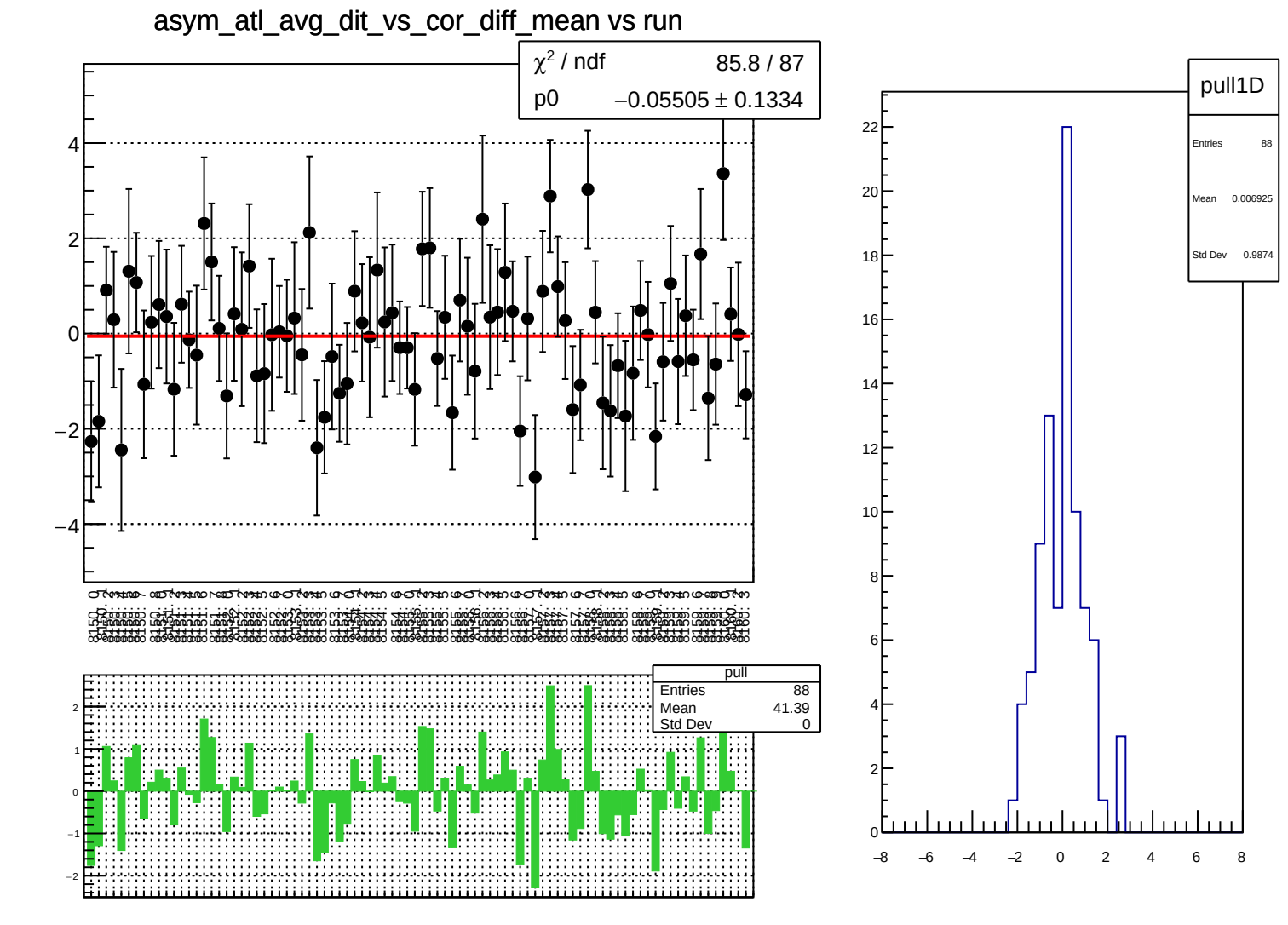

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 89.3 / 87
p0 9738 ± 5481
pull
Entries 88
Mean −499.5
Std Dev 0

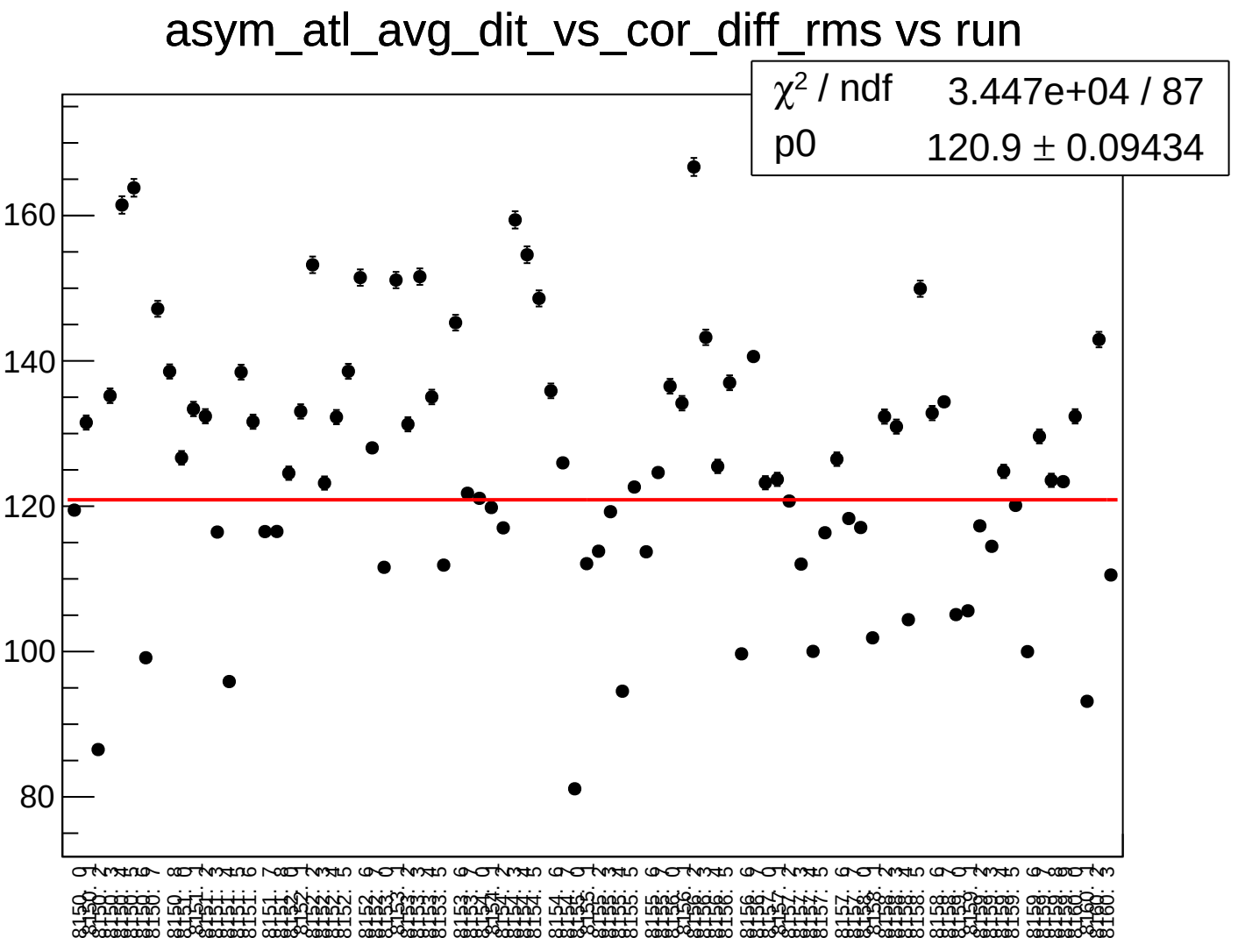

pull1D
Entries 88
Mean −0.004354
Std Dev 1.007

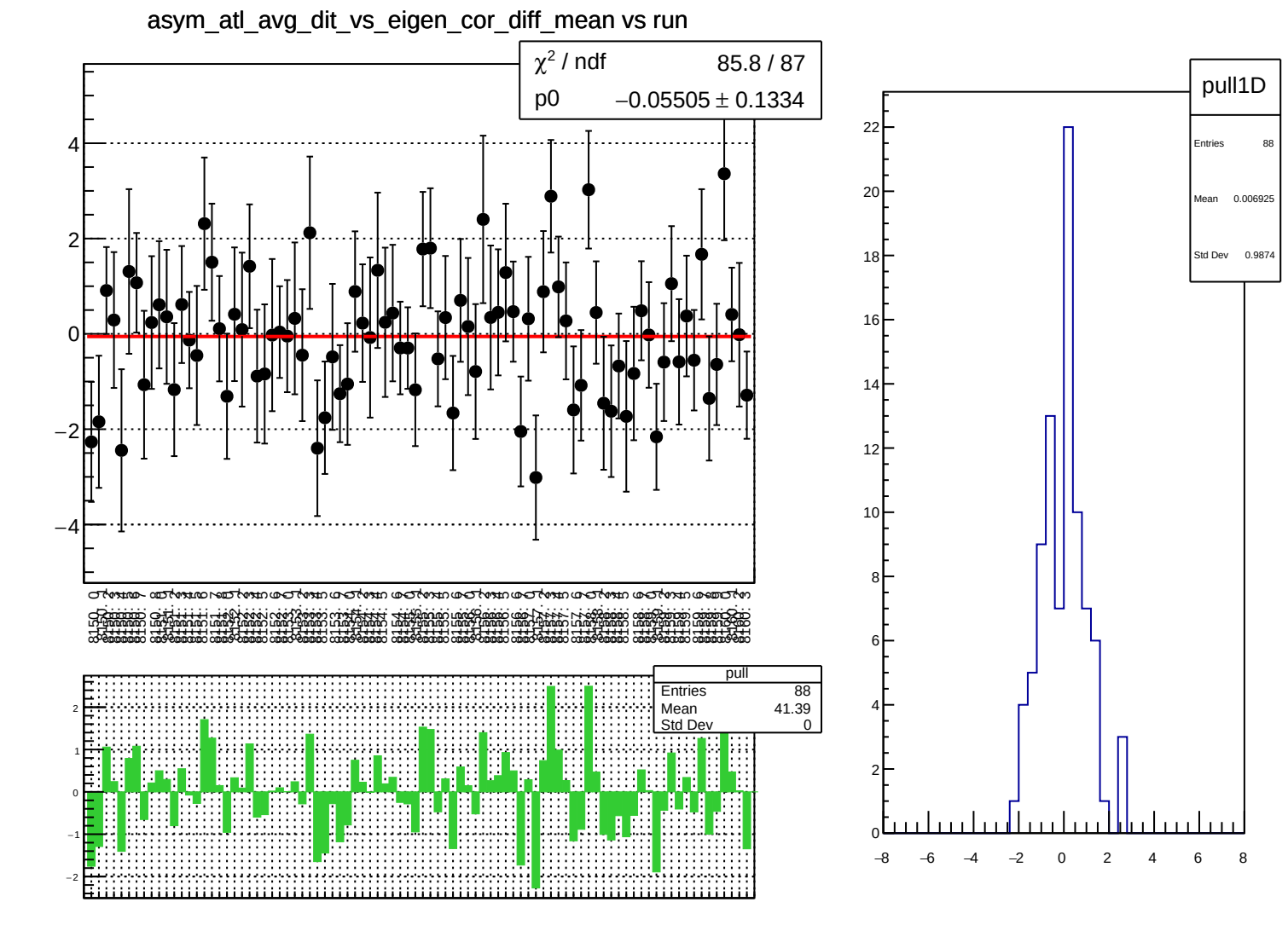

asym_atl_avg_rms vs run
χ² / ndf 1683 / 87
p0 5015 ± 3.875
5400
5200
5000
4800
4600

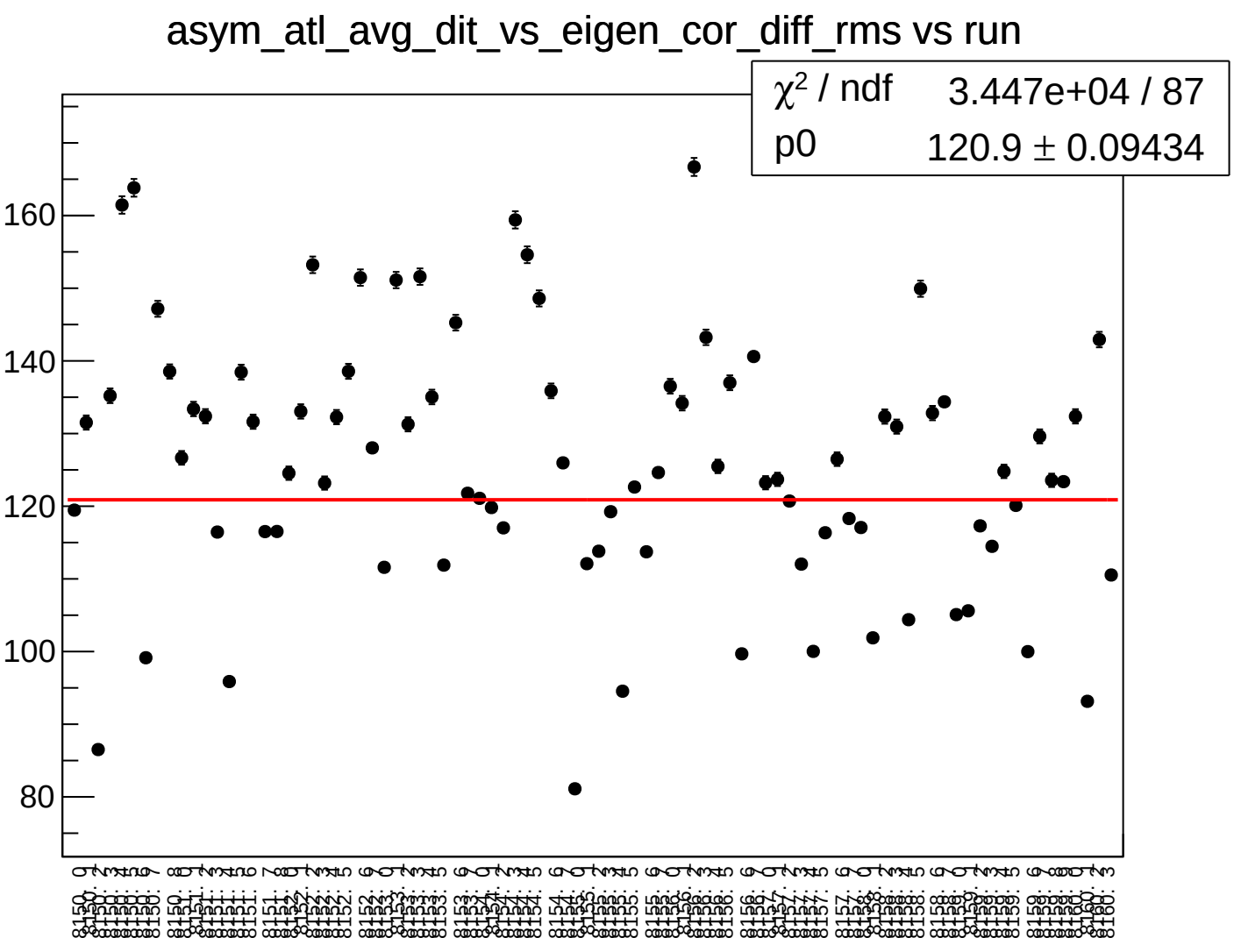

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 87
p0 −3.694e−13 ± 4.087e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 88
Mean 66.54
Std Dev 37.27
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.03473
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

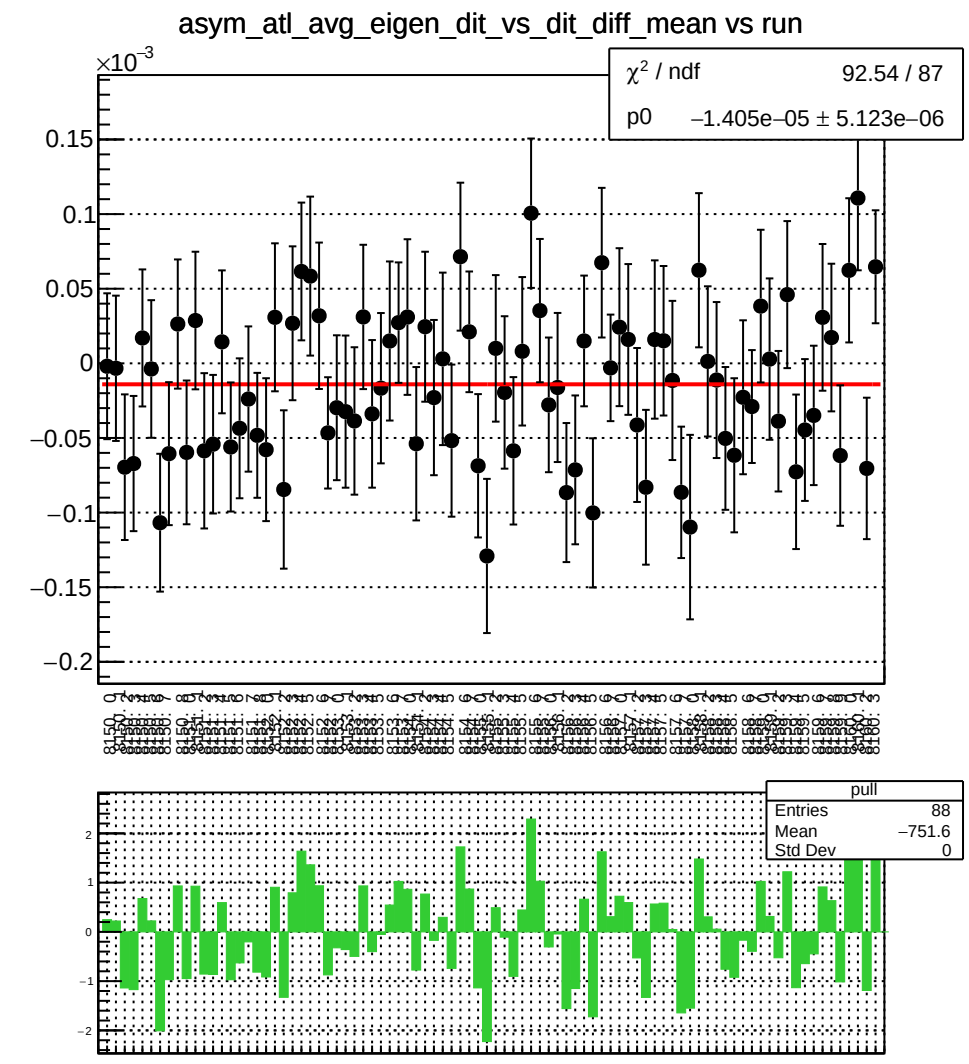

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.424e+05 / 87
p0 2.476e−10 ± 2.89e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

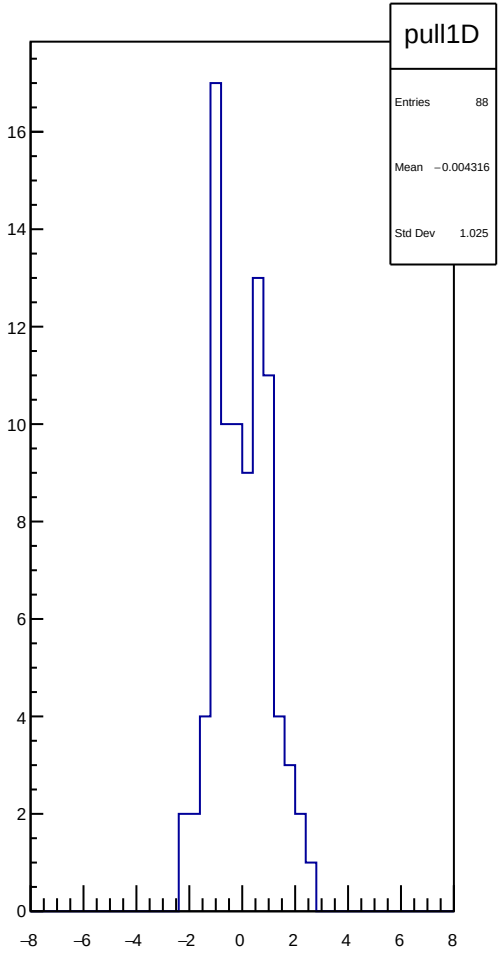

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.8 / 87
p0 −0.05505 ± 0.1334
pull
Entries 88
Mean 41.39
Std Dev 0
pull1D
Entries 88
Mean 0.006925
Std Dev 0.9874

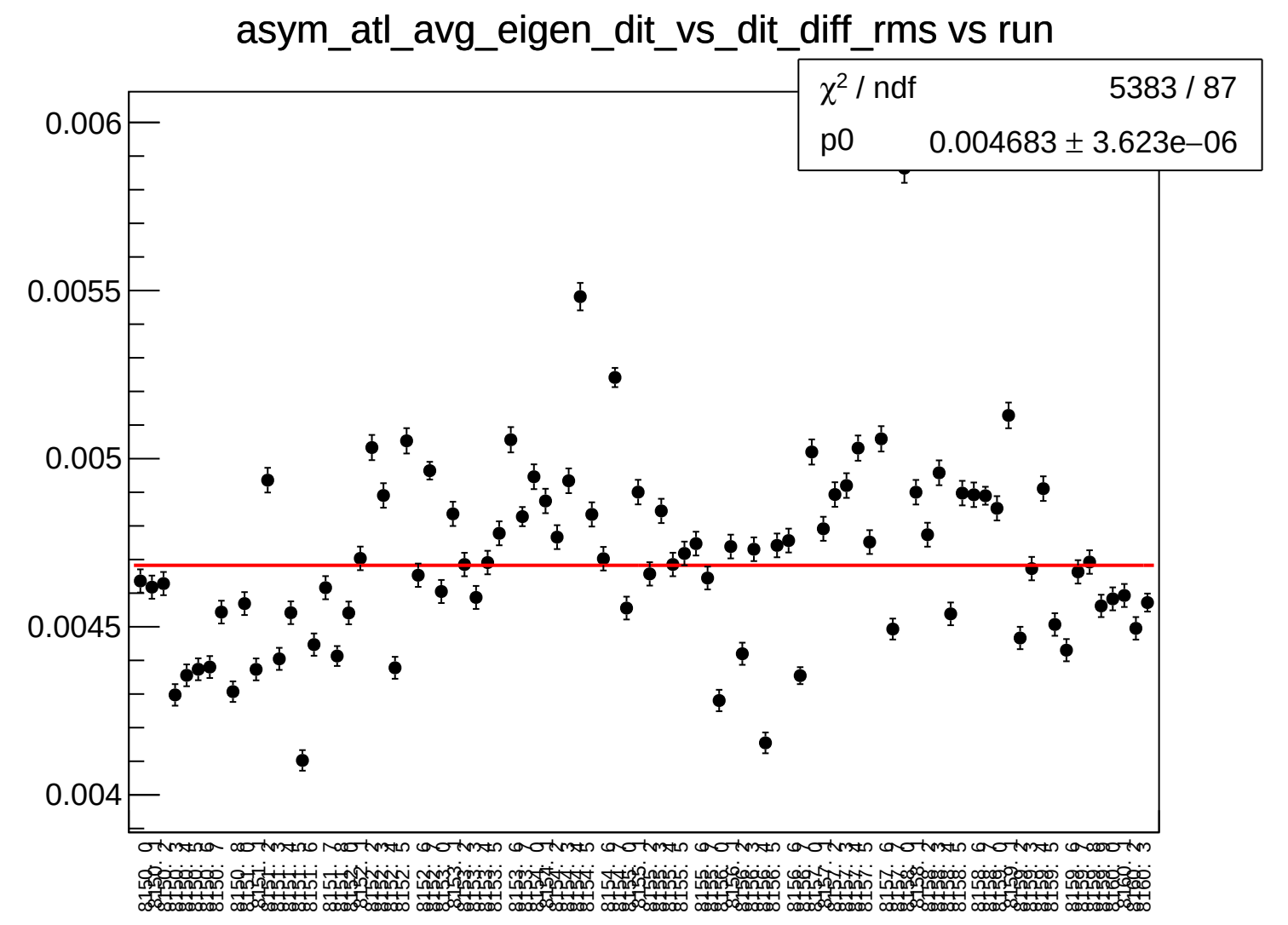

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.447e+04 / 87
p0 120.9 ± 0.09434
160
140
120
100
80

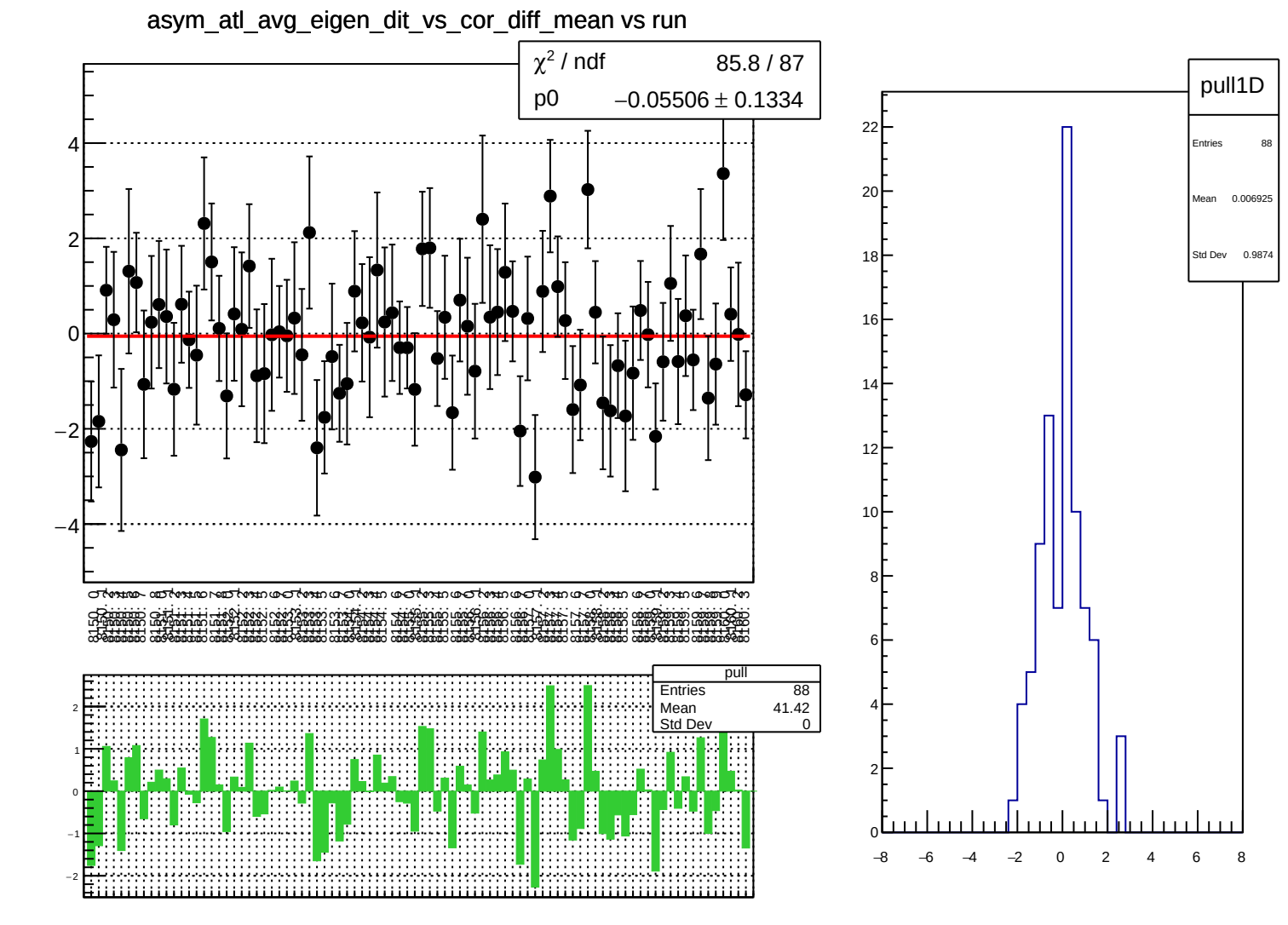

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.8 / 87
p0 −0.05505 ± 0.1334
pull
Entries 88
Mean 41.39
Std Dev 0
pull1D
Entries 88
Mean 0.006925
Std Dev 0.9874

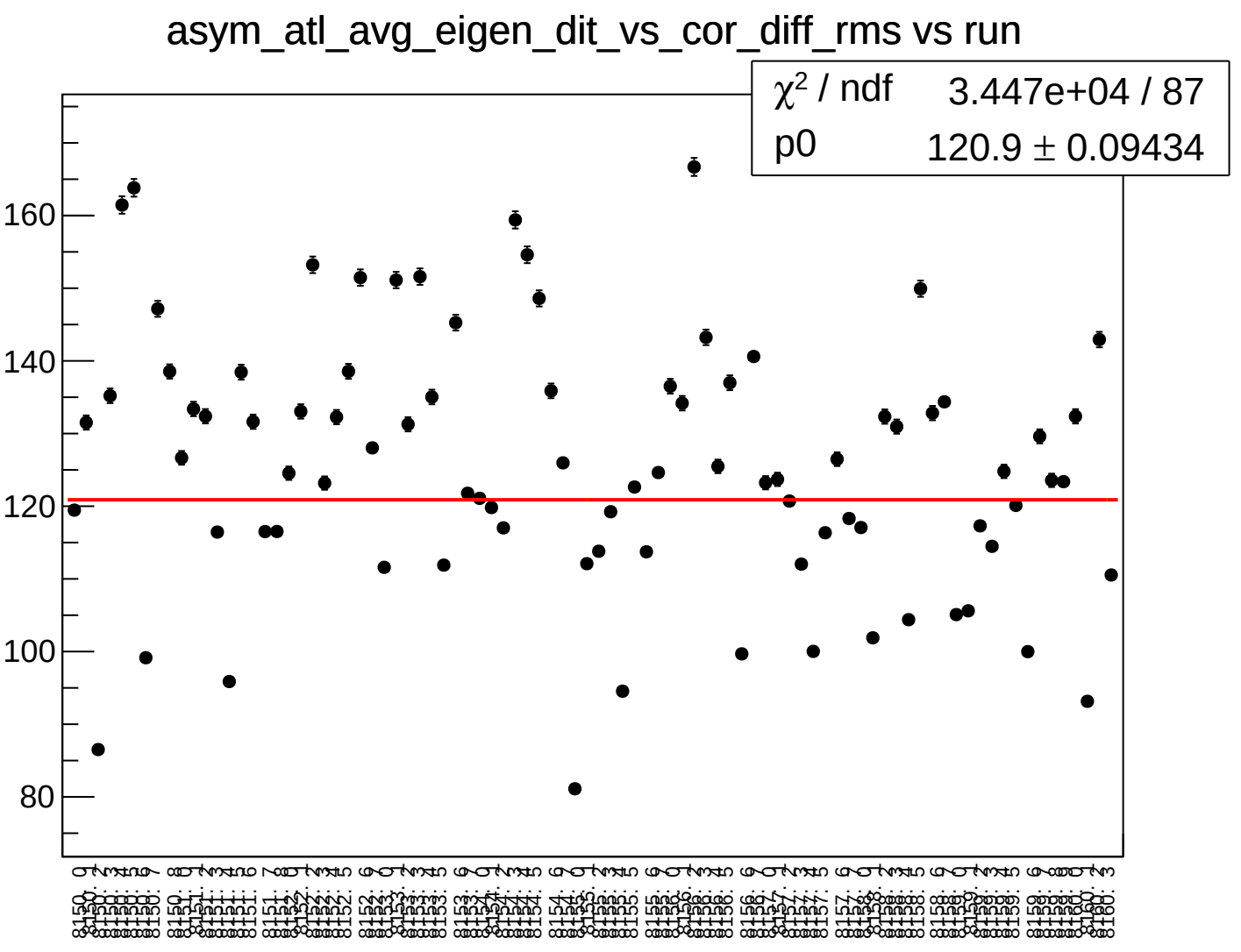

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.447e+04 / 87
p0 120.9 ± 0.09434
160
140
120
100
80

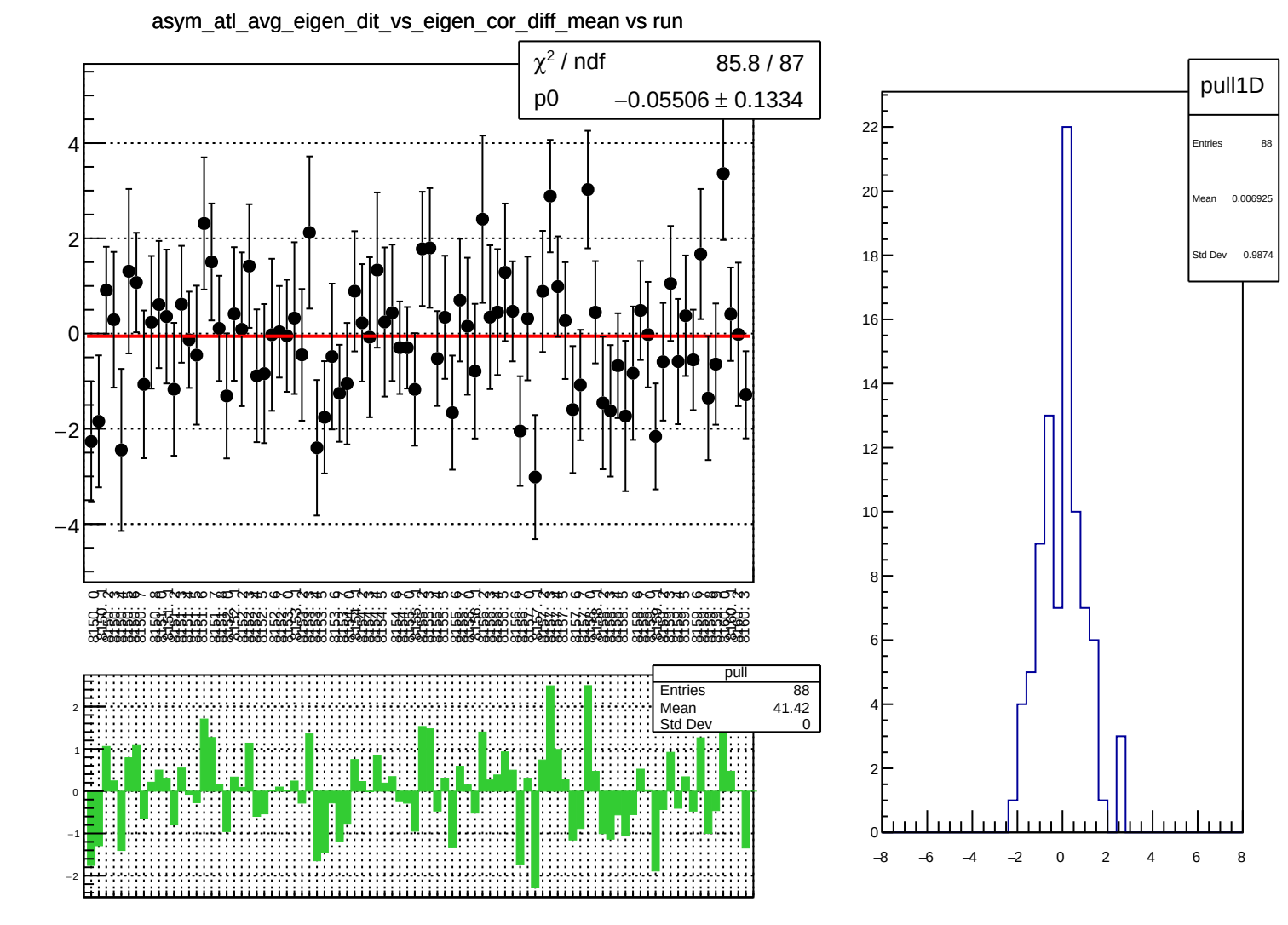

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.54 / 87
p0 −1.405e−05 ± 5.123e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 88
Mean −751.6
Std Dev 0
2
1
0
−1
−2

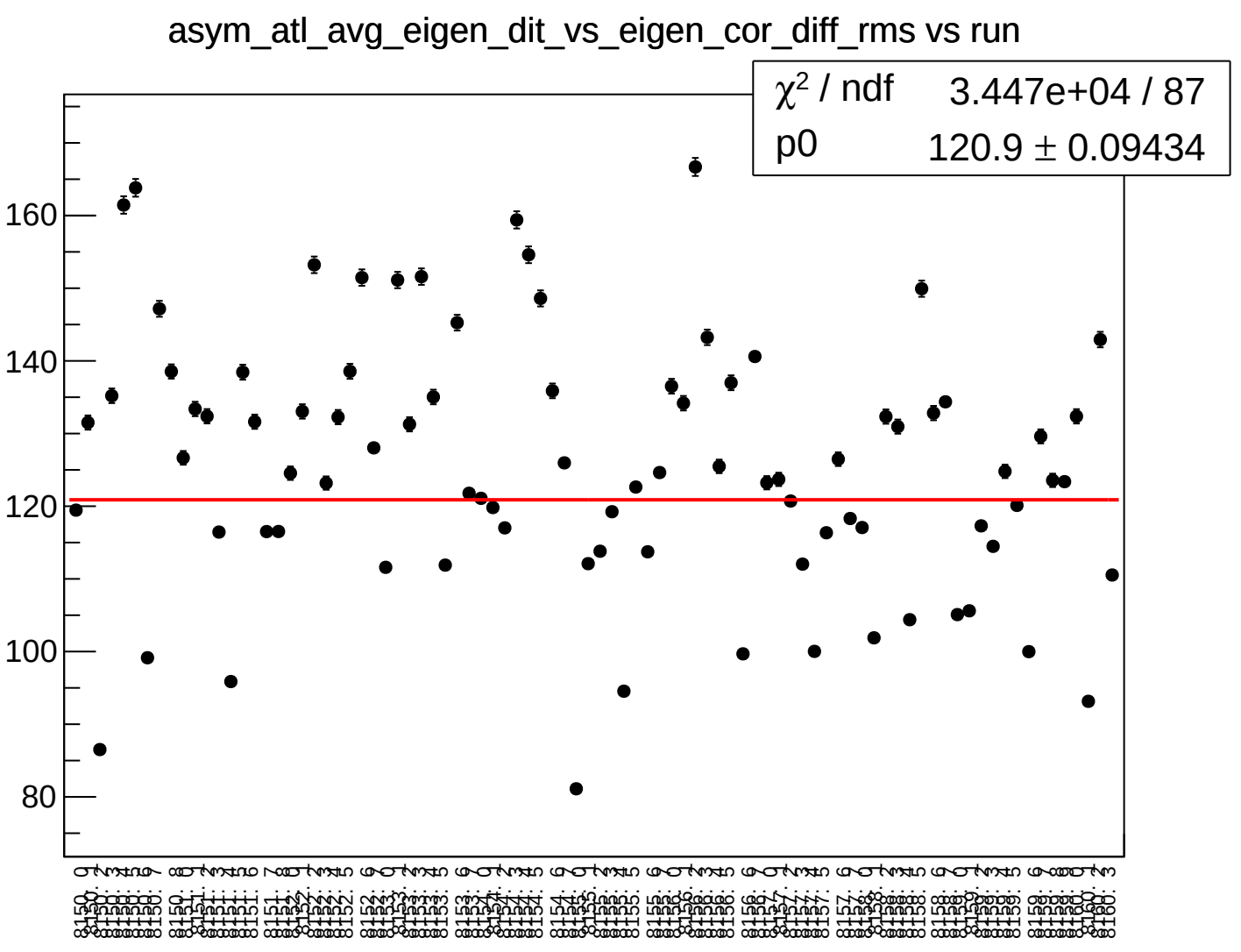

pull1D
Entries 88
Mean −0.004316
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

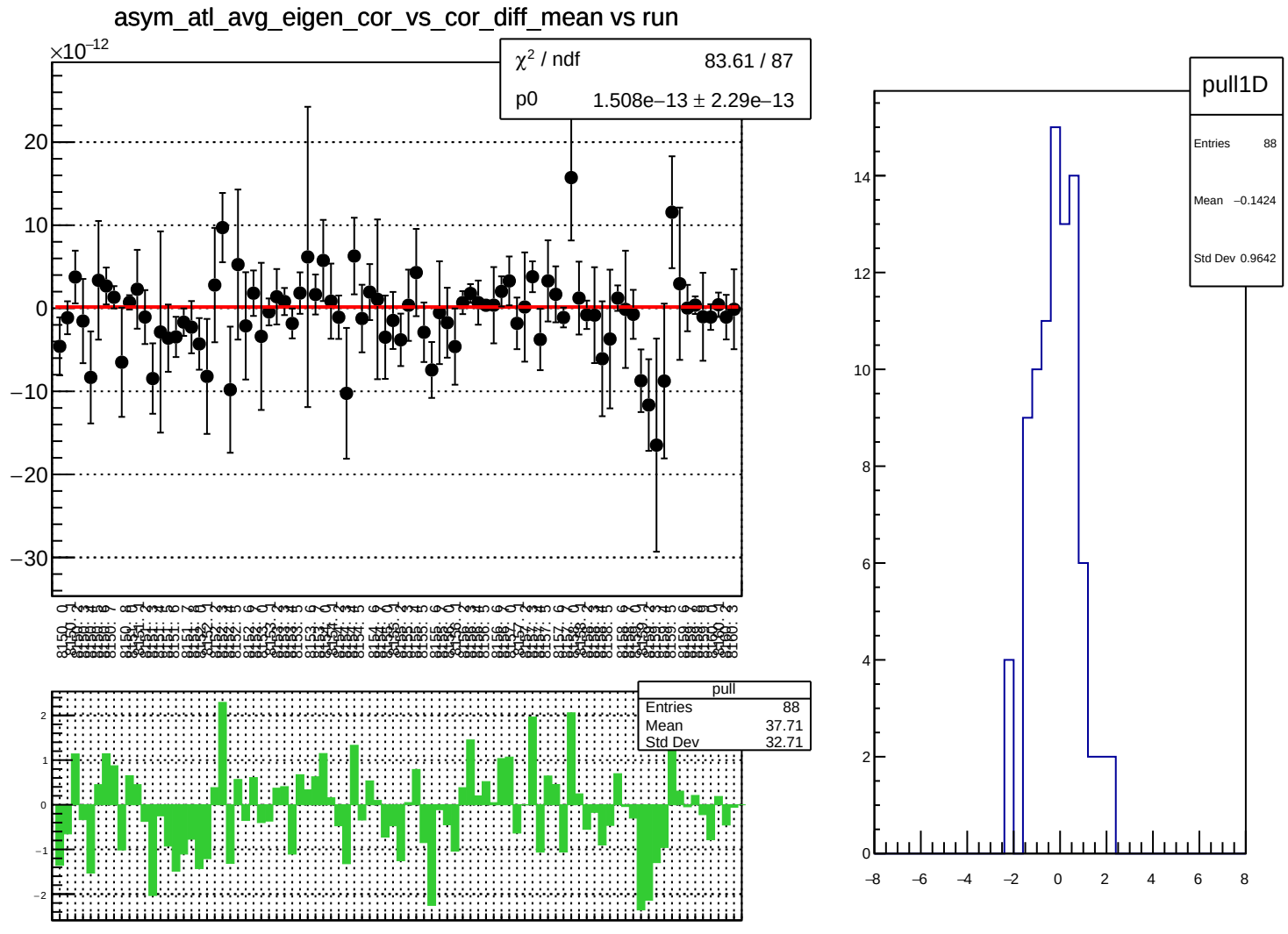

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5383 / 87
p0 0.004683 ± 3.623e−06
0.006
0.0055
0.005
0.0045
0.004

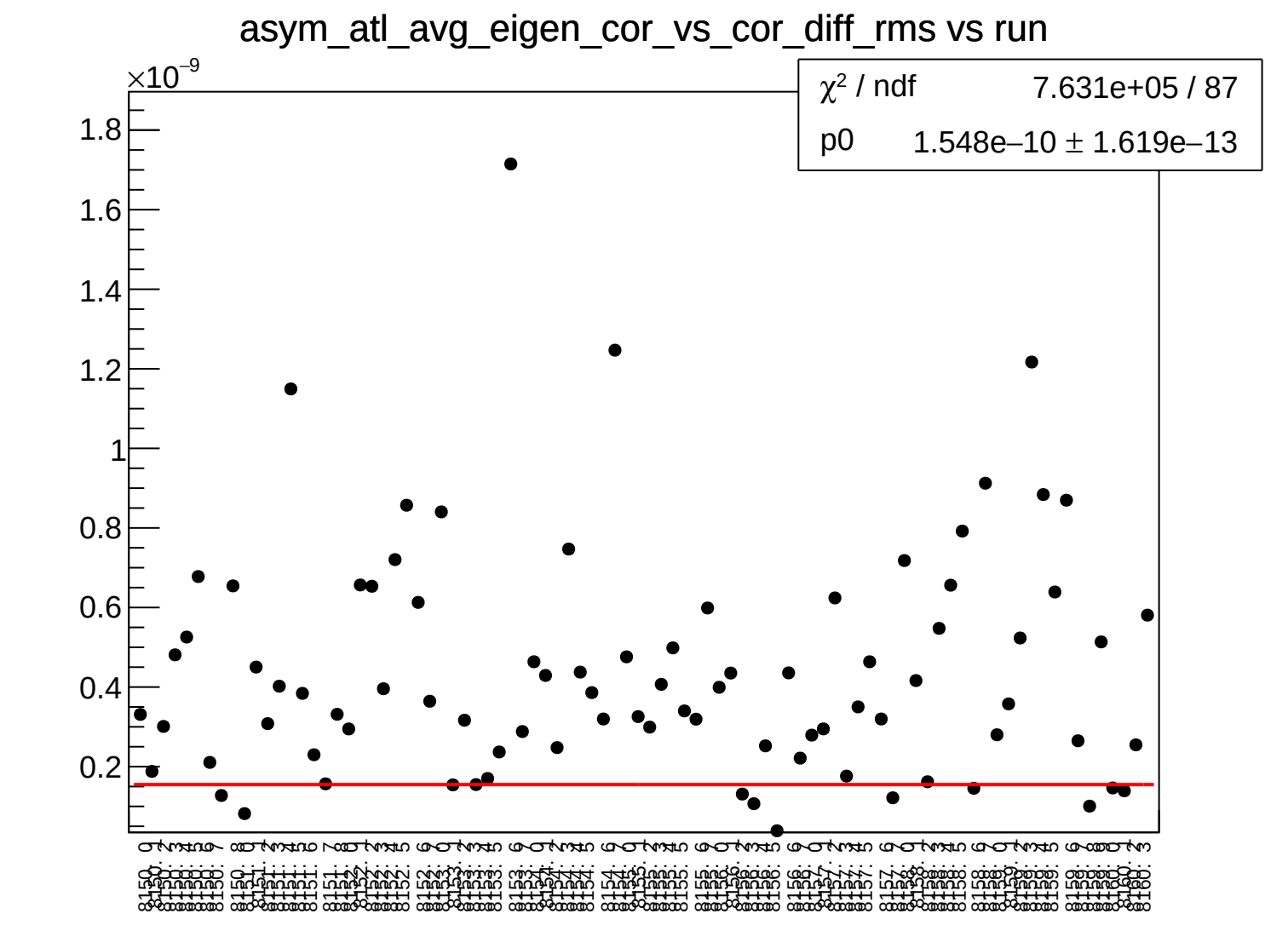

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.8 / 87
p0 −0.05506 ± 0.1334
pull
Entries 88
Mean 41.42
Std Dev 0
pull1D
Entries 88
Mean 0.006925
Std Dev 0.9874

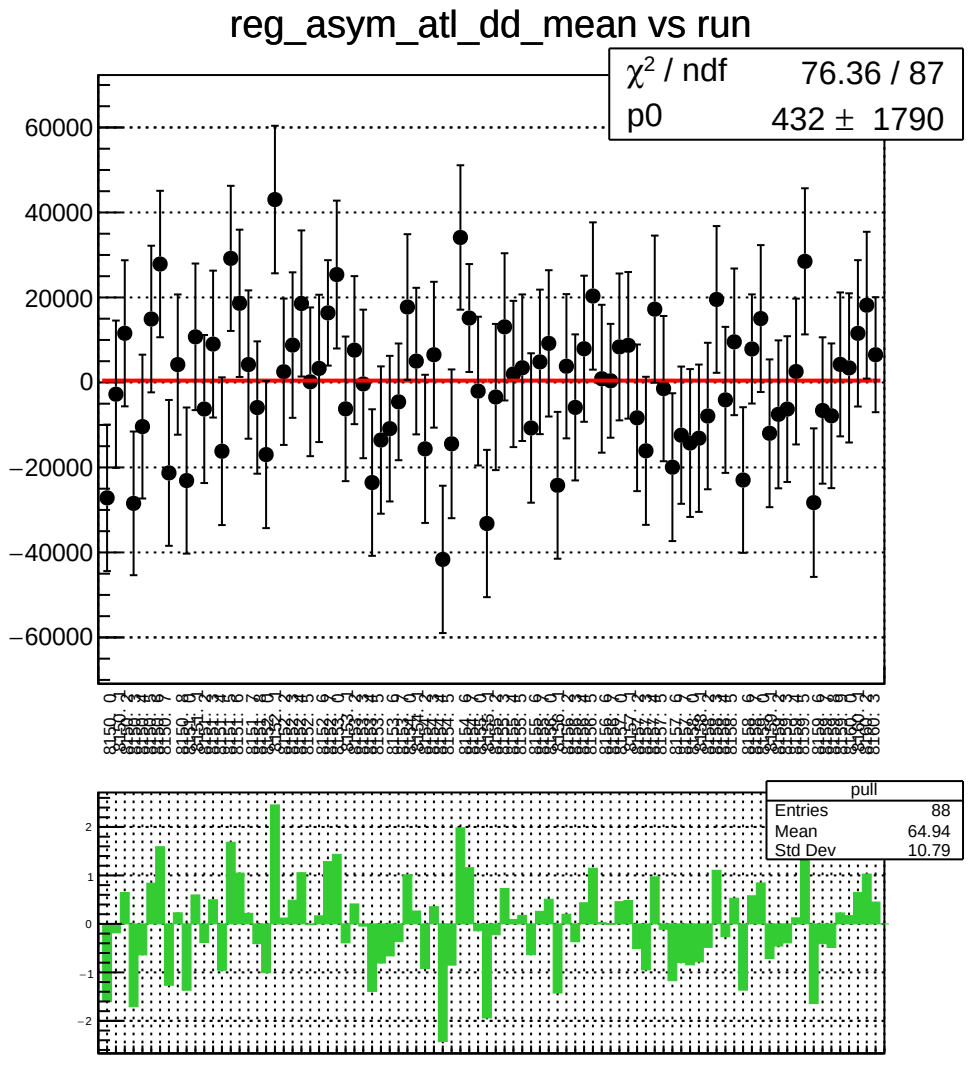

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.447e+04 / 87
p0 120.9 ± 0.09434
160
140
120
100
80

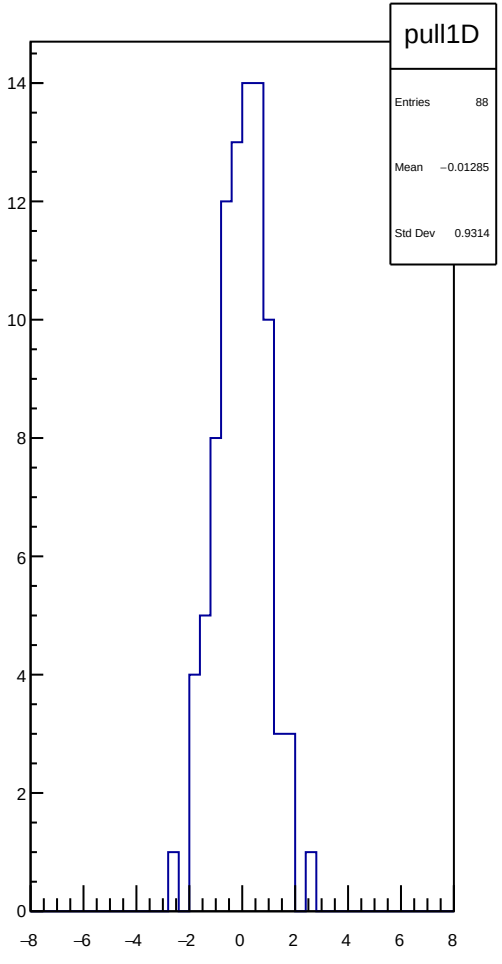

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.8 / 87
p0 −0.05506 ± 0.1334
pull
Entries 88
Mean 41.42
Std Dev 0
pull1D
Entries 88
Mean 0.006925
Std Dev 0.9874

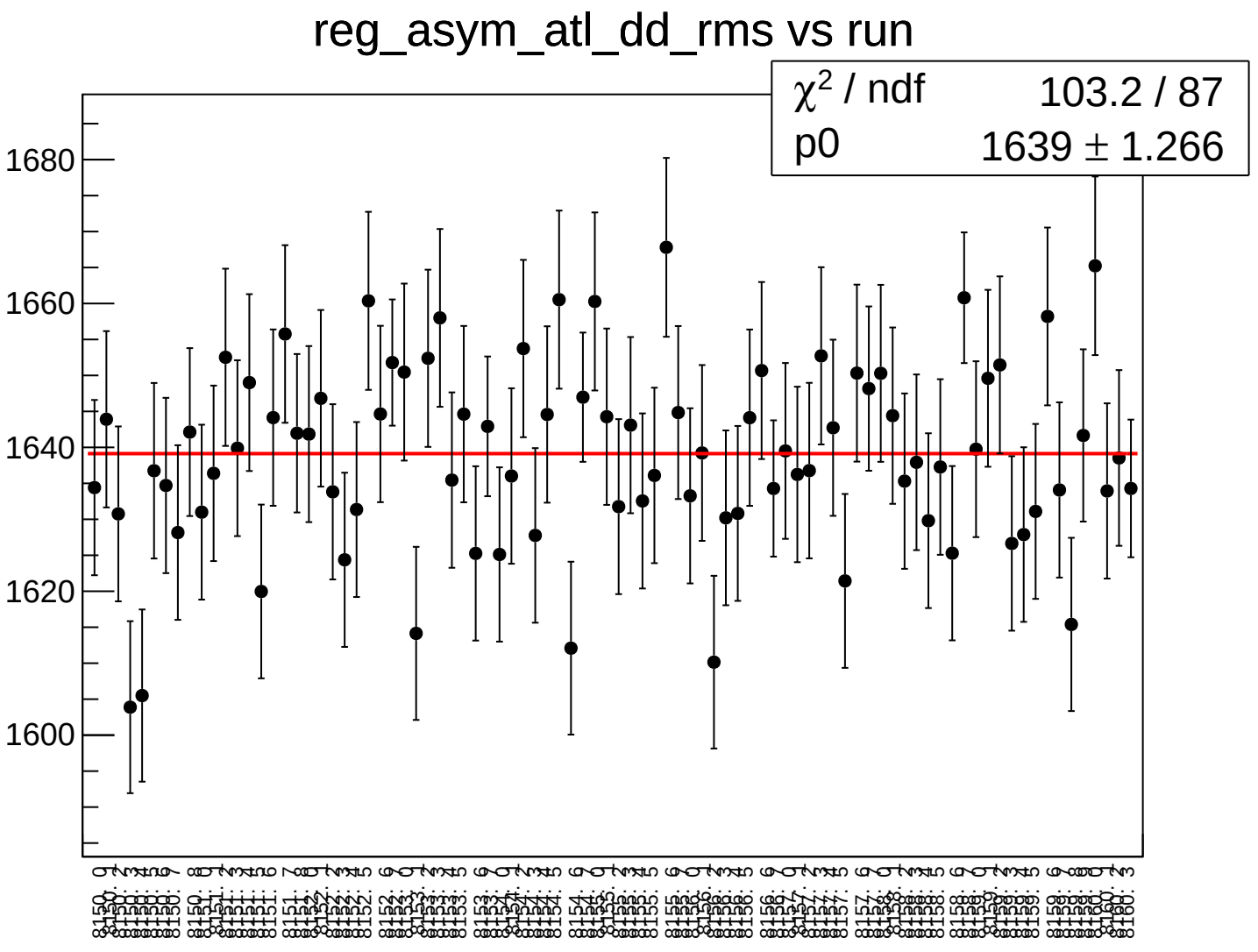

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.447e+04 / 87
p0 120.9 ± 0.09434
160
140
120
100
80

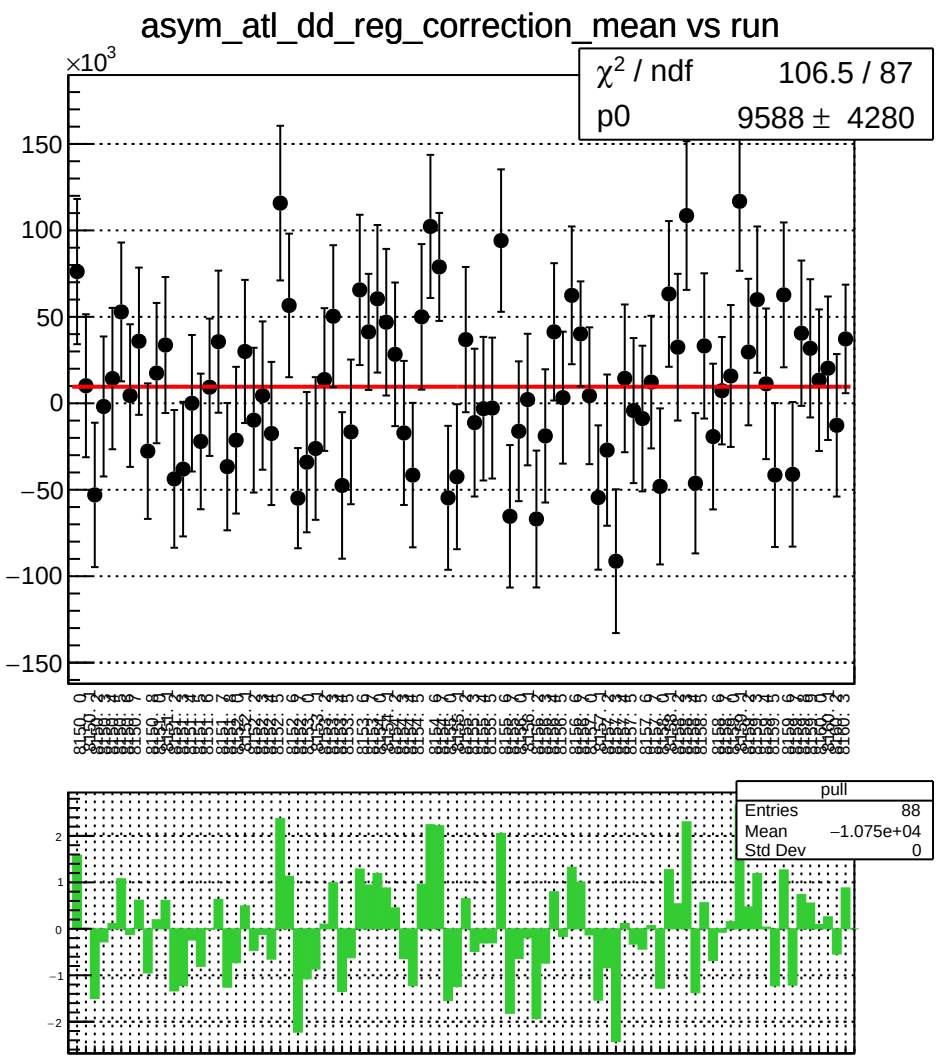

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.61 / 87
p0 1.508e−13 ± 2.29e−13
20
10
0
−10
−20
−30
pull
Entries 88
Mean 37.71
Std Dev 32.71
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.1424
Std Dev 0.9642
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

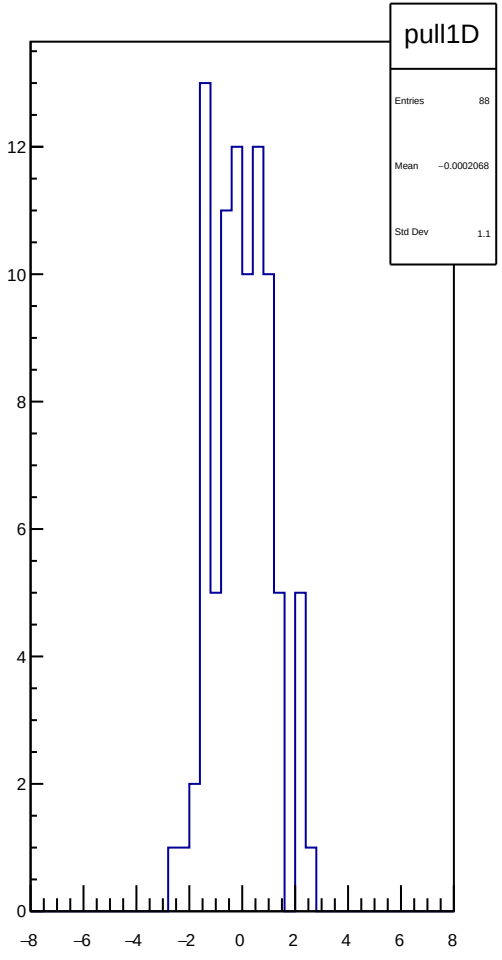

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.631e+05 / 87
p0 1.548e−10 ± 1.619e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

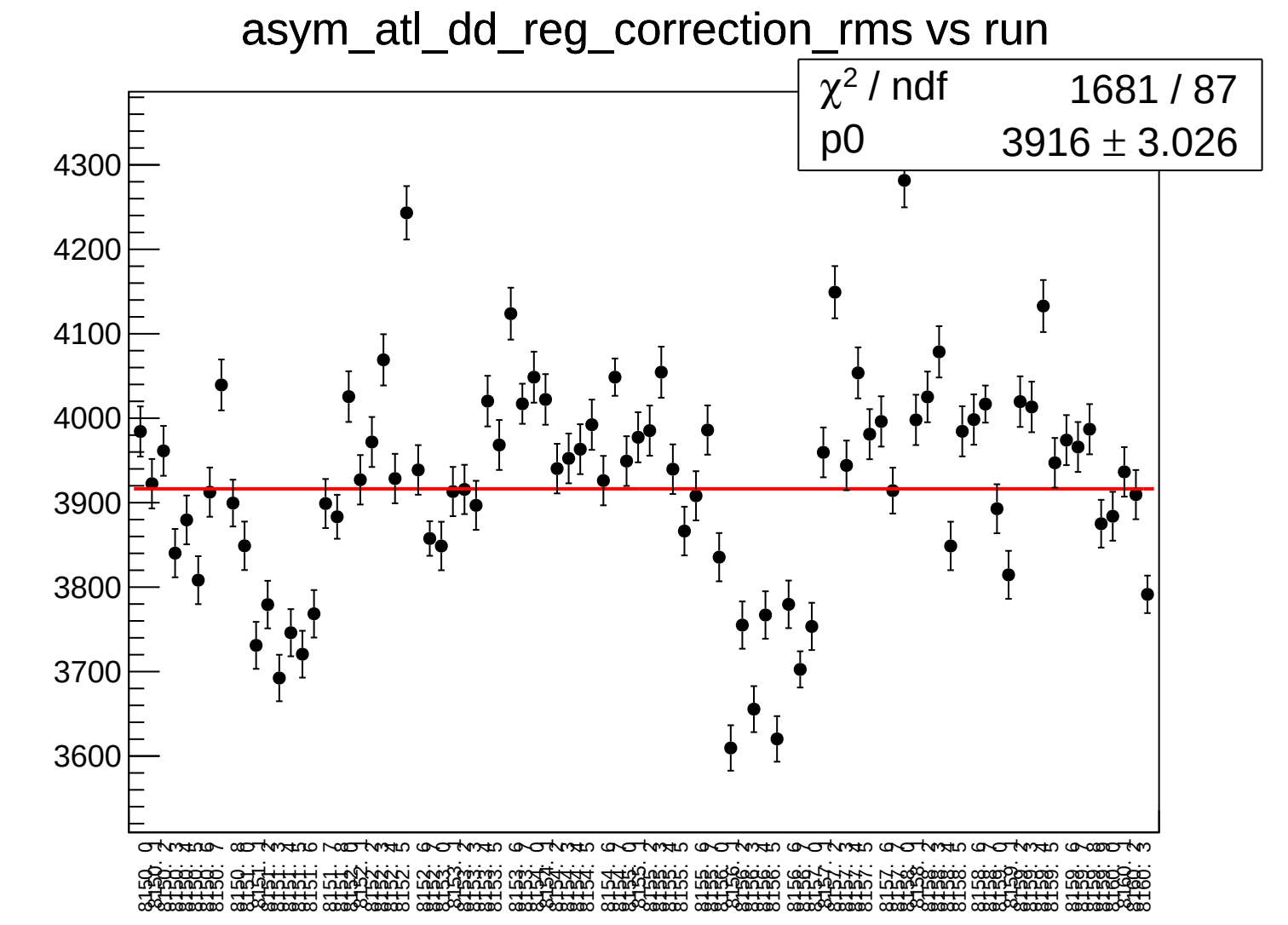

reg_asym_atl_dd_mean vs run
χ² / ndf 76.36 / 87
p0 432 ± 1790
pull
Entries 88
Mean 64.94
Std Dev 10.79

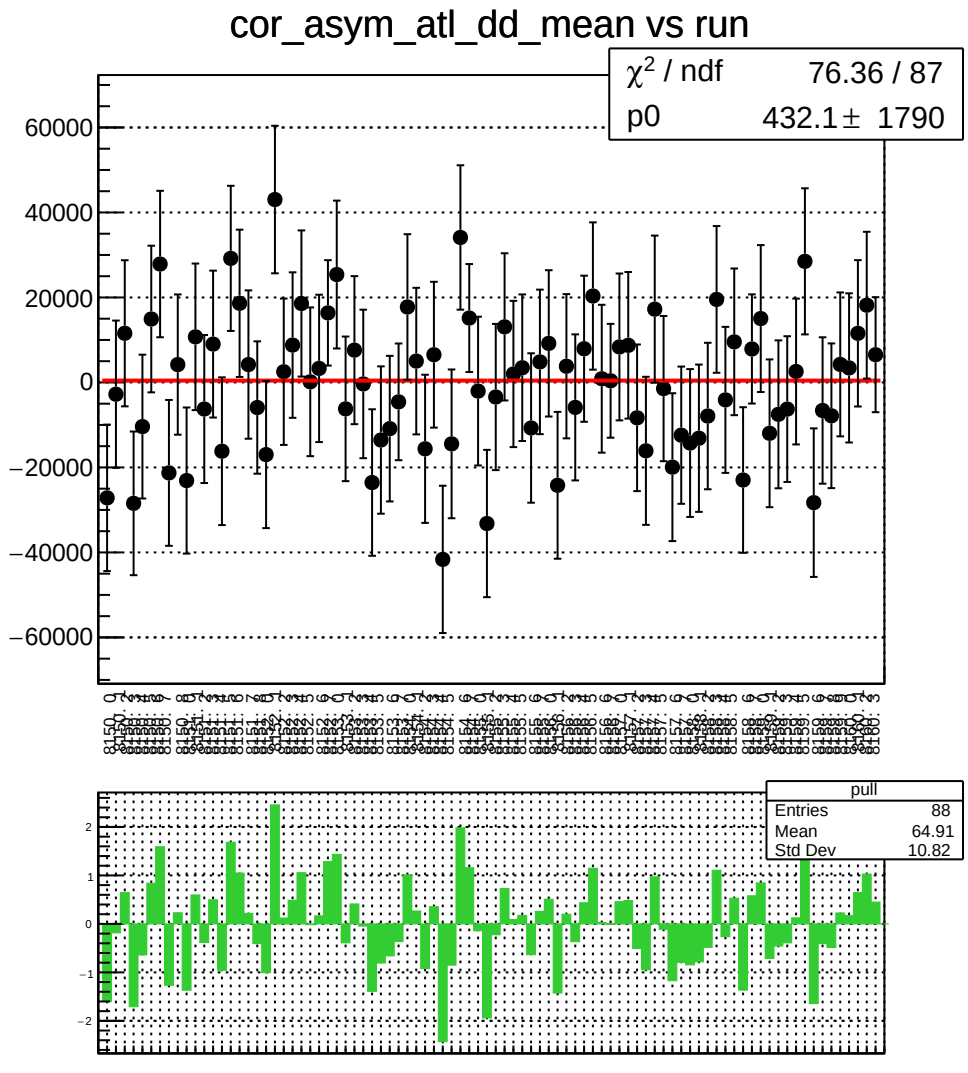

pull1D
Entries 88
Mean −0.01285
Std Dev 0.9314

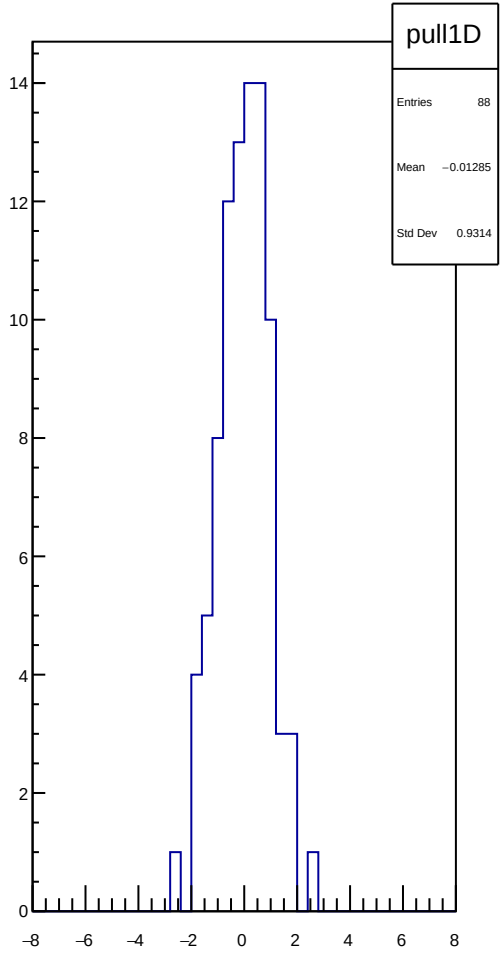

reg_asym_atl_dd_rms vs run
χ² / ndf 103.2 / 87
p0 1639 ± 1.266
1680
1660
1640
1620
1600


asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 106.5 / 87
p0 9588 ± 4280
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −1.075e+04
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.0002068
Std Dev 1.1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1681 / 87
p0 3916 ± 3.026
4300
4200
4100
4000
3900
3800
3700
3600


cor_asym_atl_dd_mean vs run
χ² / ndf 76.36 / 87
p0 432.1± 1790
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 64.91
Std Dev 10.82
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.01285
Std Dev 0.9314
14
12
10
8
6
4
2
0
−8
−6
−4
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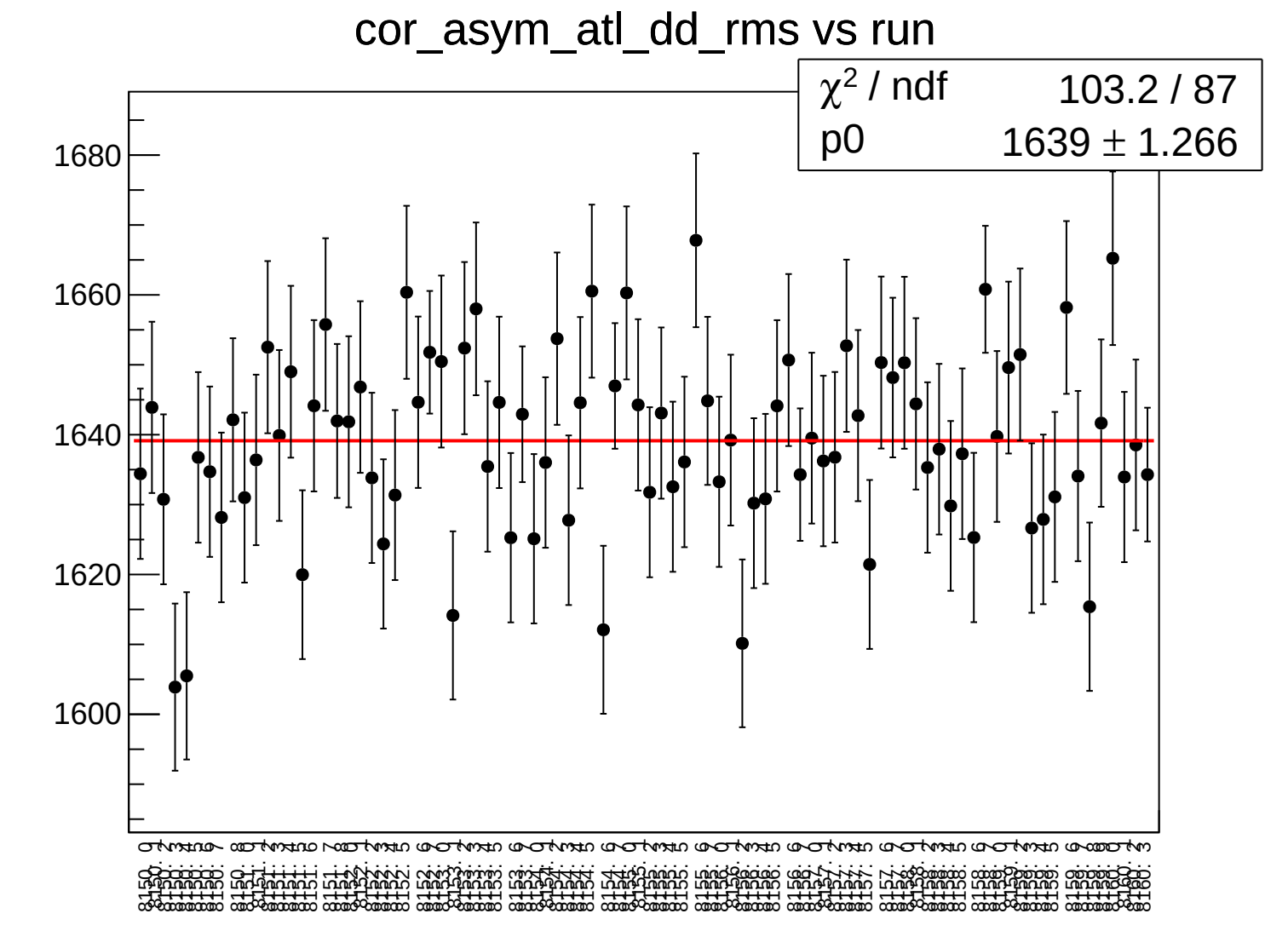
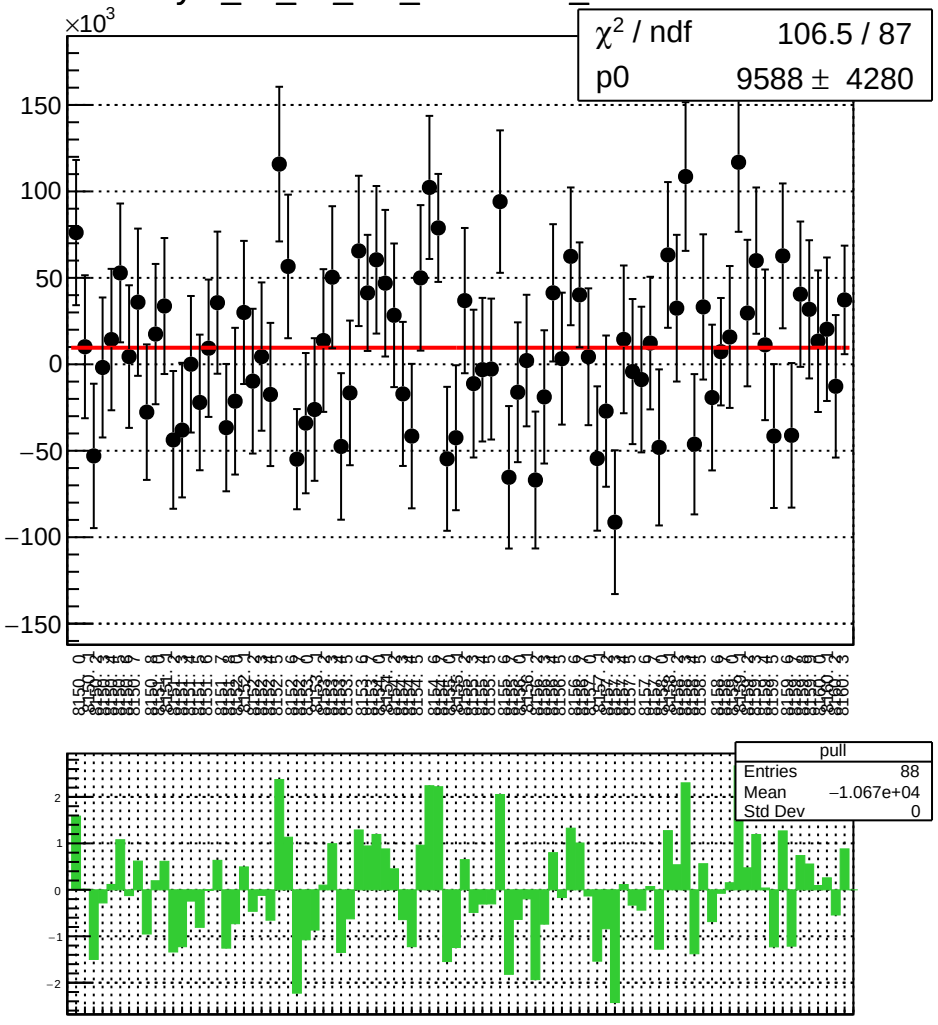
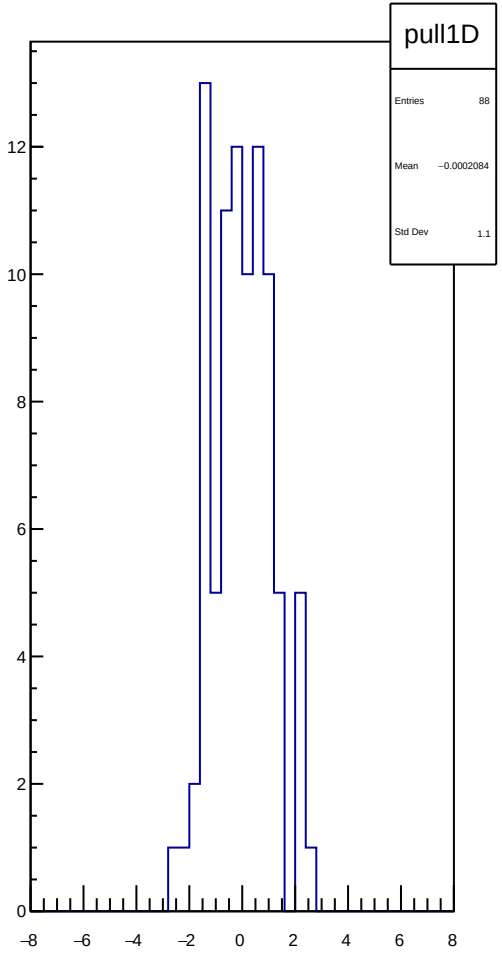
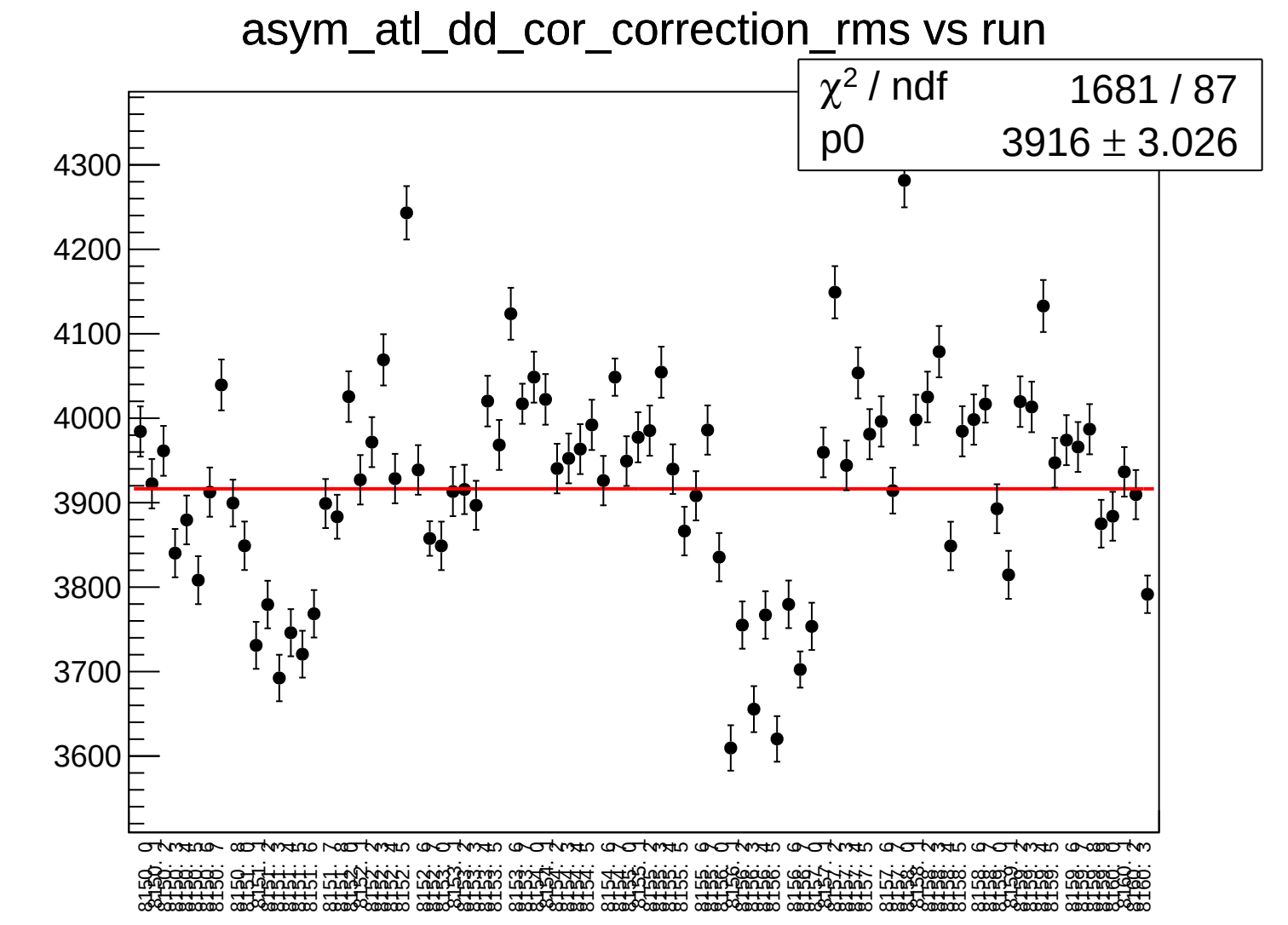
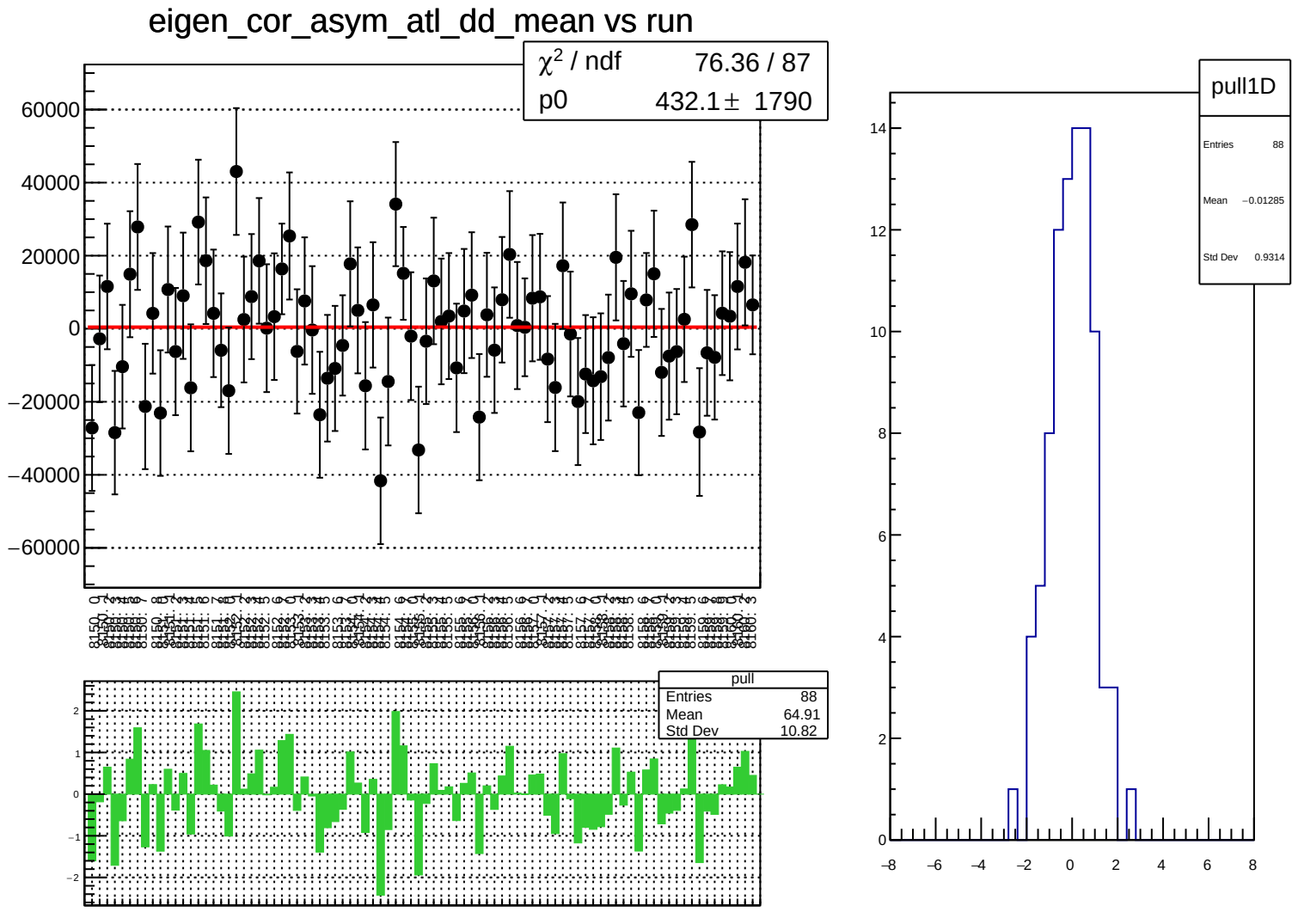
0
2
4
6
8

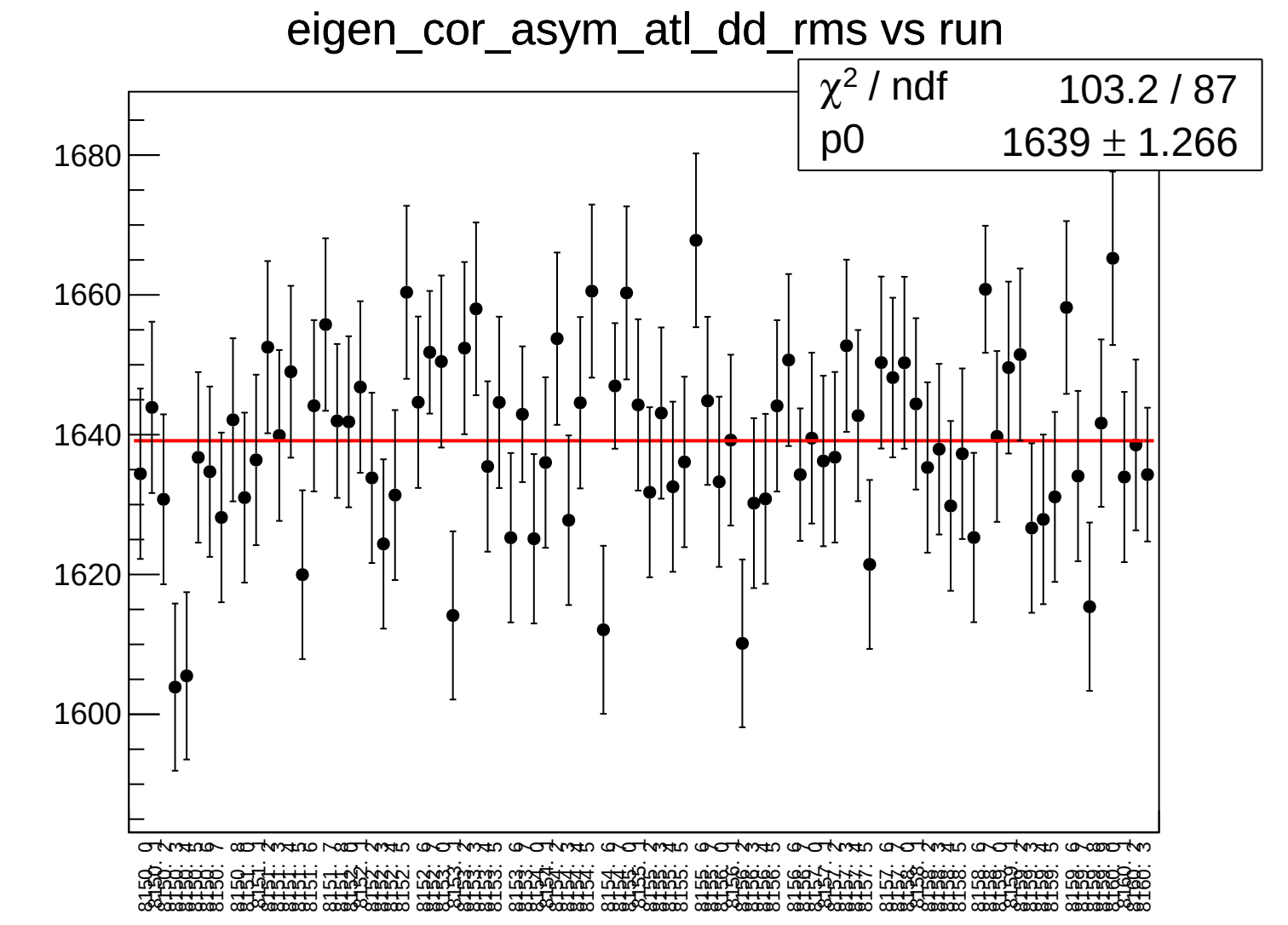

cor_asym_atl_dd_rms vs run
χ^2 / ndf 103.2 / 87
p0 1639 ± 1.266
1680
1660
1640
1620
1600

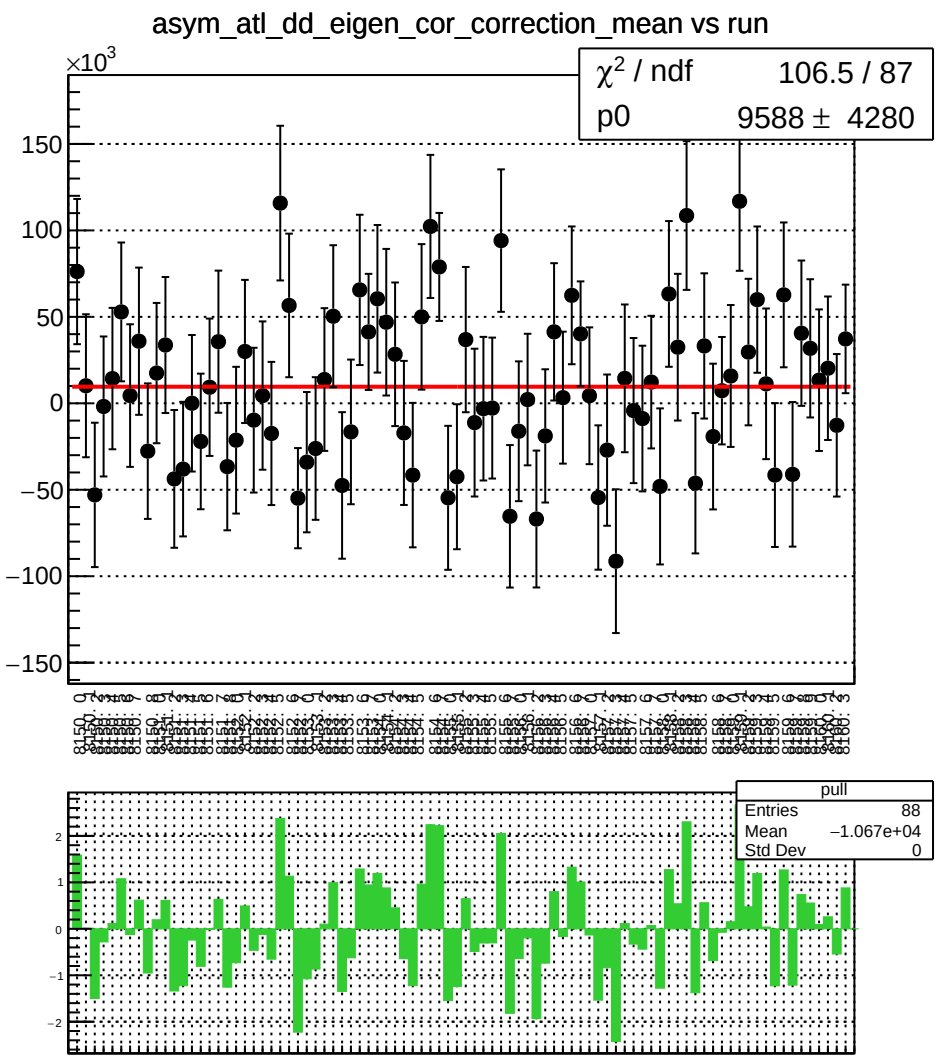

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 106.5 / 87
p0 9588 ± 4280
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −1.067e+04
Std Dev 0
2
1
0
−1
−2

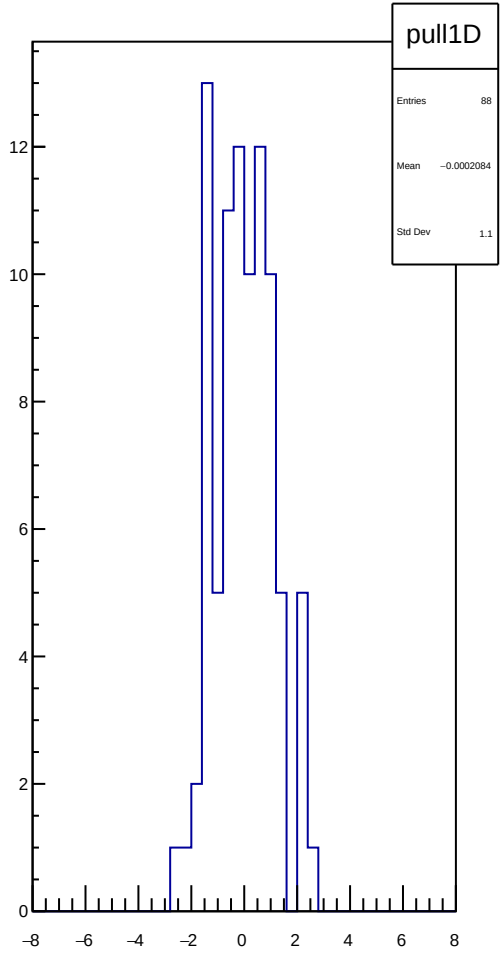

pull1D
Entries 88
Mean −0.0002084
Std Dev 1.1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

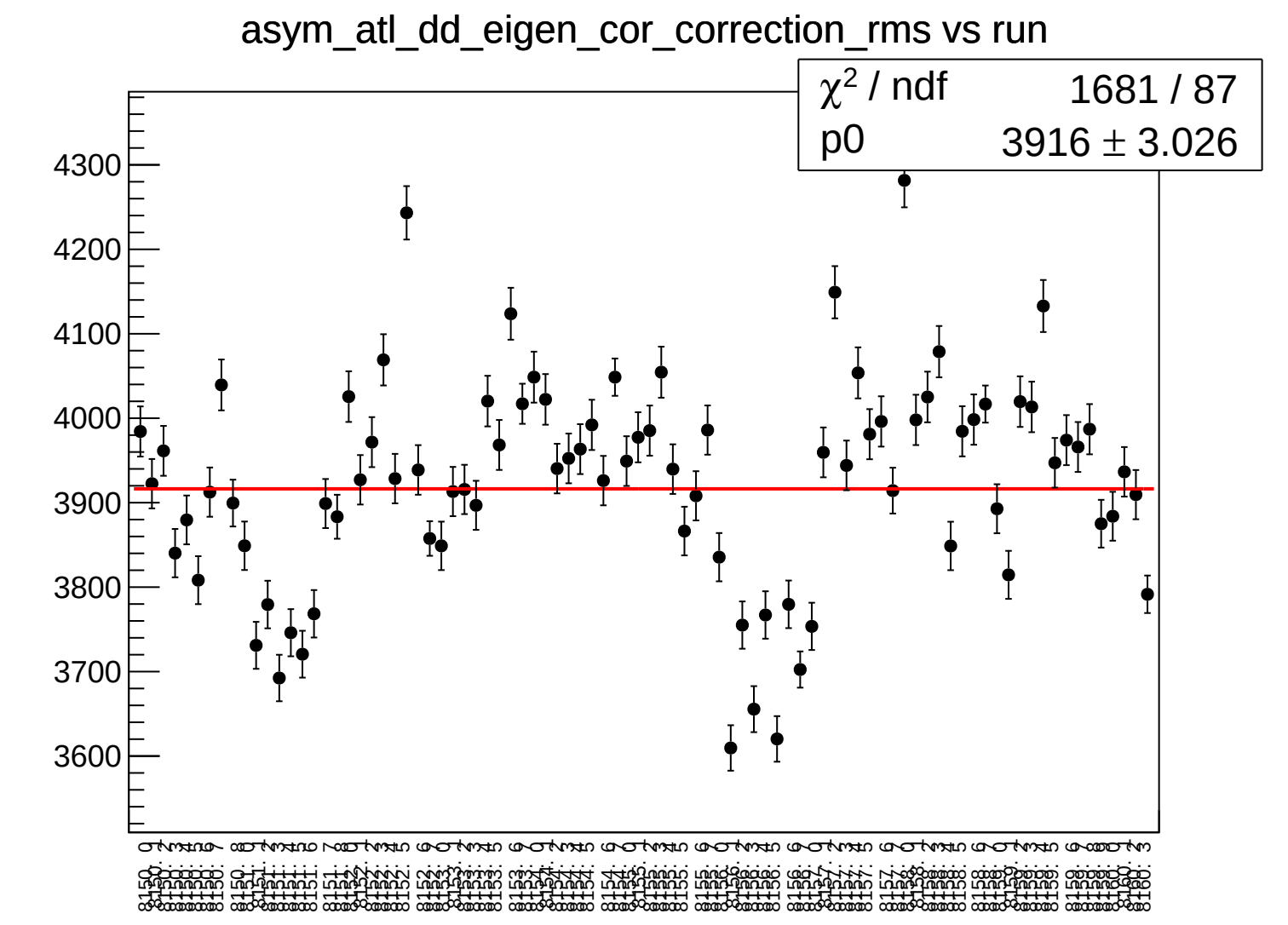

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1681 / 87
p0 3916 ± 3.026
4300
4200
4100
4000
3900
3800
3700
3600

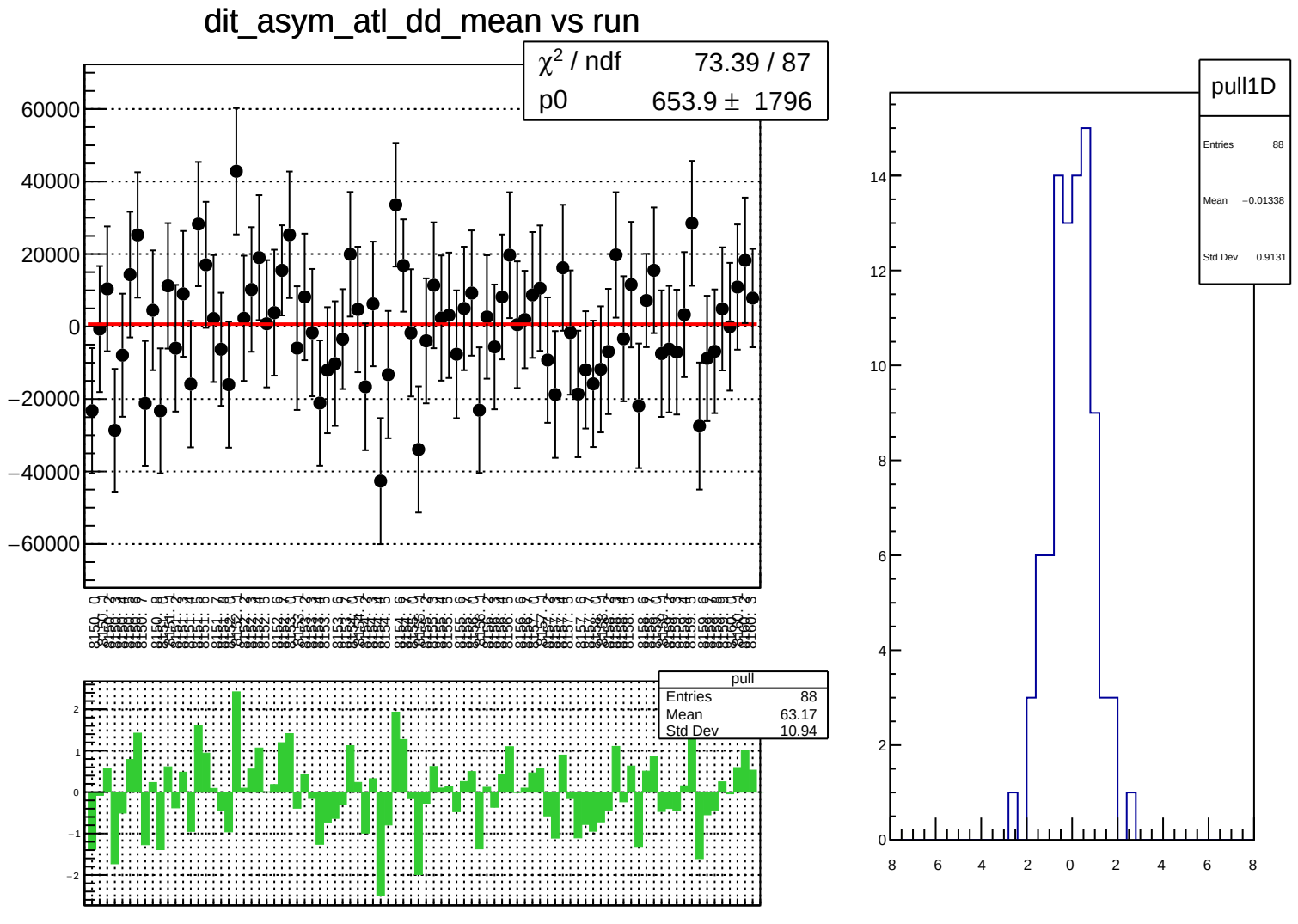

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 76.36 / 87
p0 432.1± 1790
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 64.91
Std Dev 10.82
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01285
Std Dev 0.9314
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

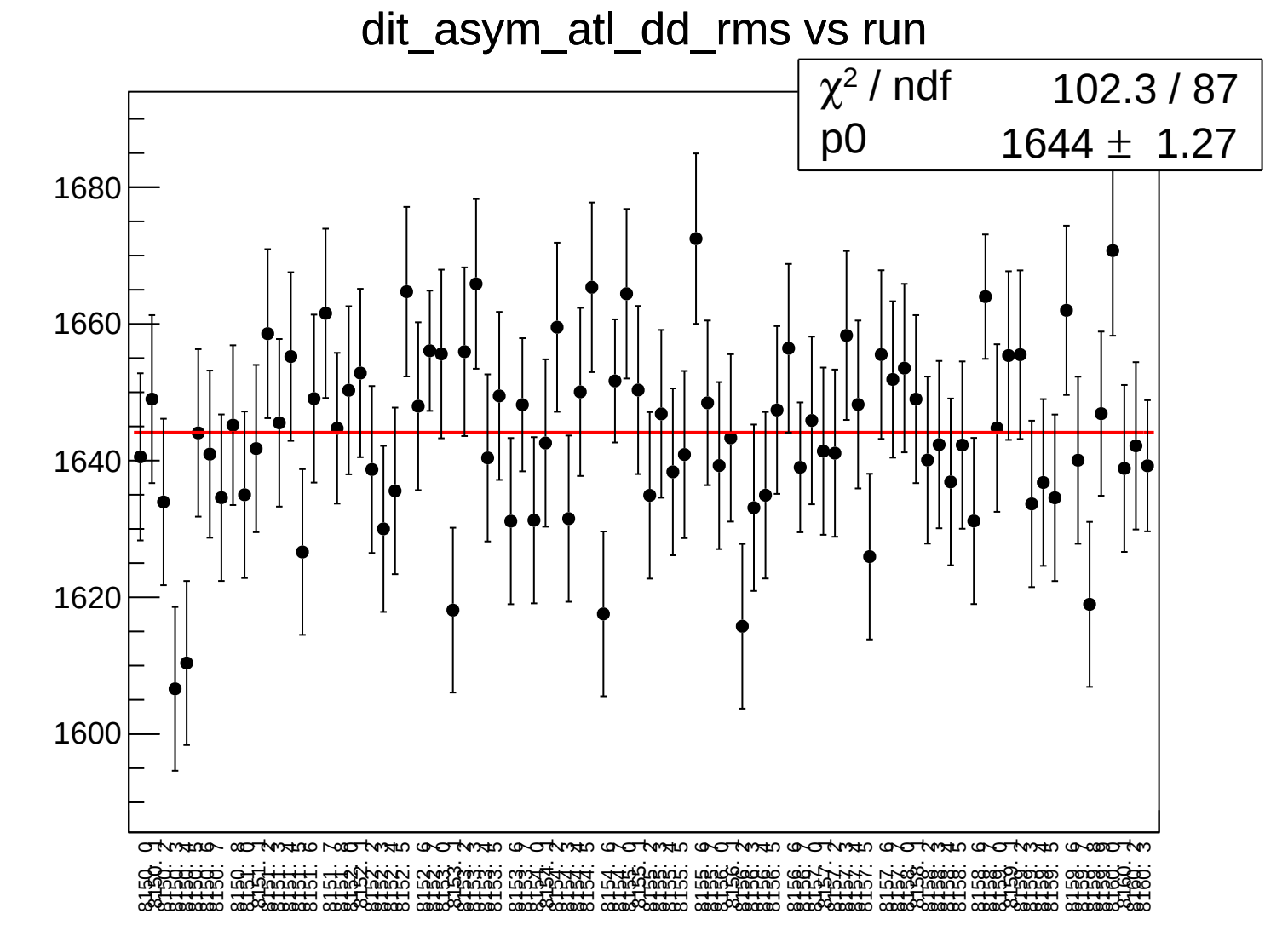

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 103.2 / 87
p0 1639 ± 1.266
1680
1660
1640
1620
1600

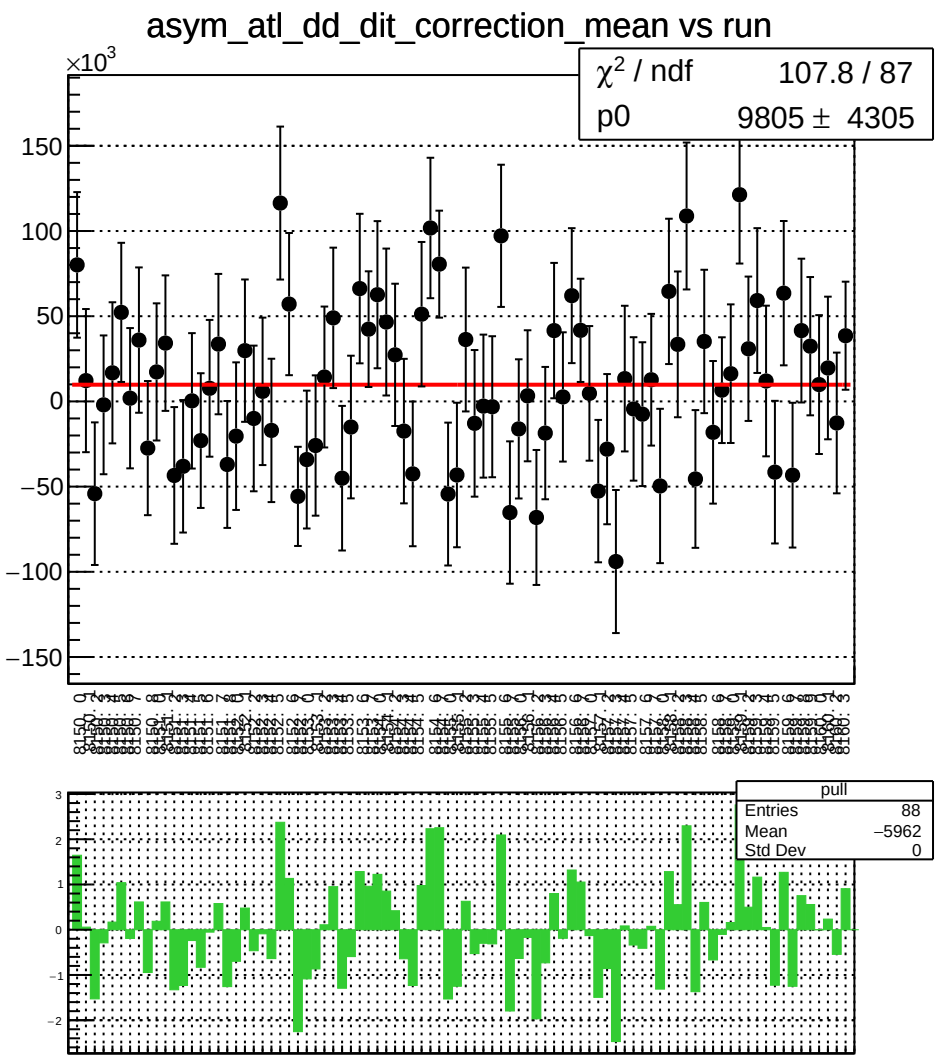

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 106.5 / 87
p0 9588 ± 4280
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −1.067e+04
Std Dev 0
2
1
0
−1
−2

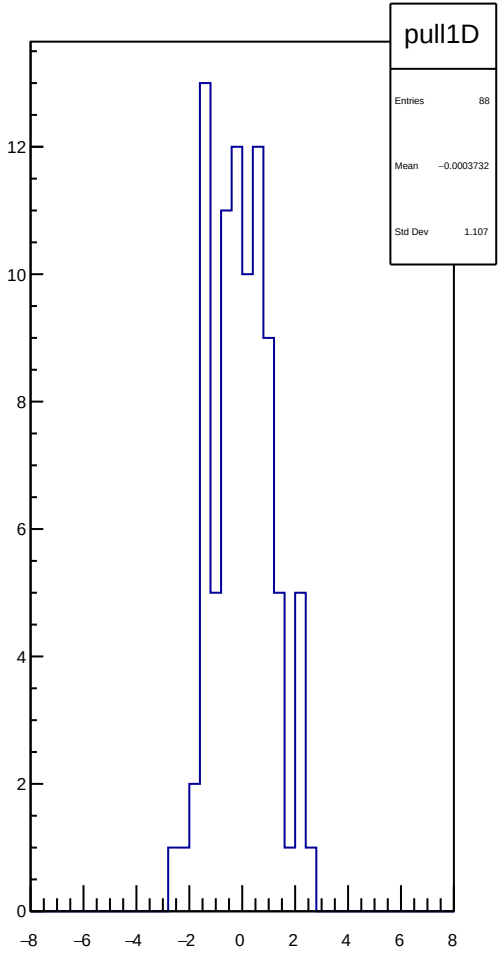

pull1D
Entries 88
Mean −0.0002084
Std Dev 1.1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

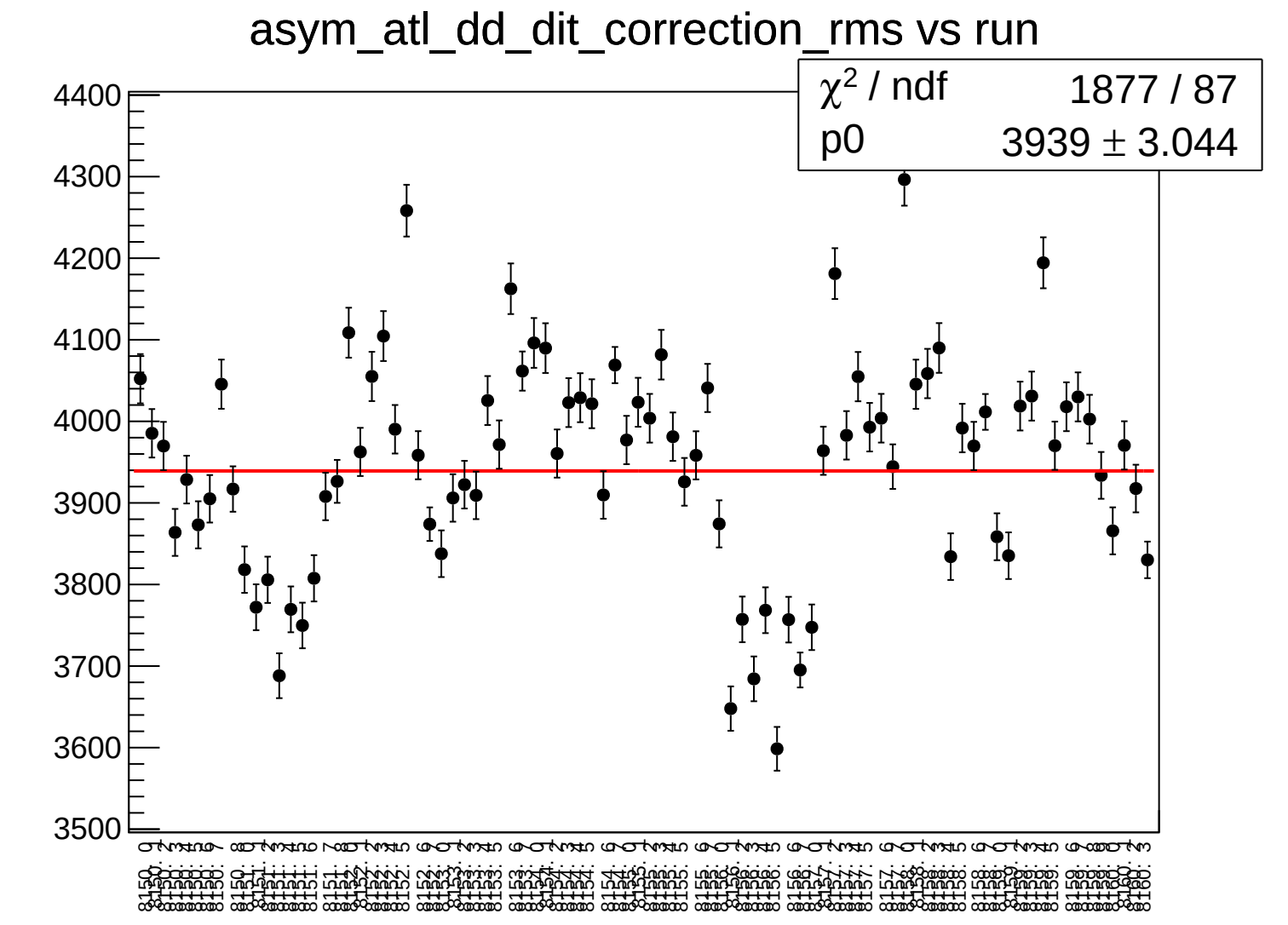

asym_atl_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 1681 / 87
p0 3916 ± 3.026
4300
4200
4100
4000
3900
3800
3700
3600

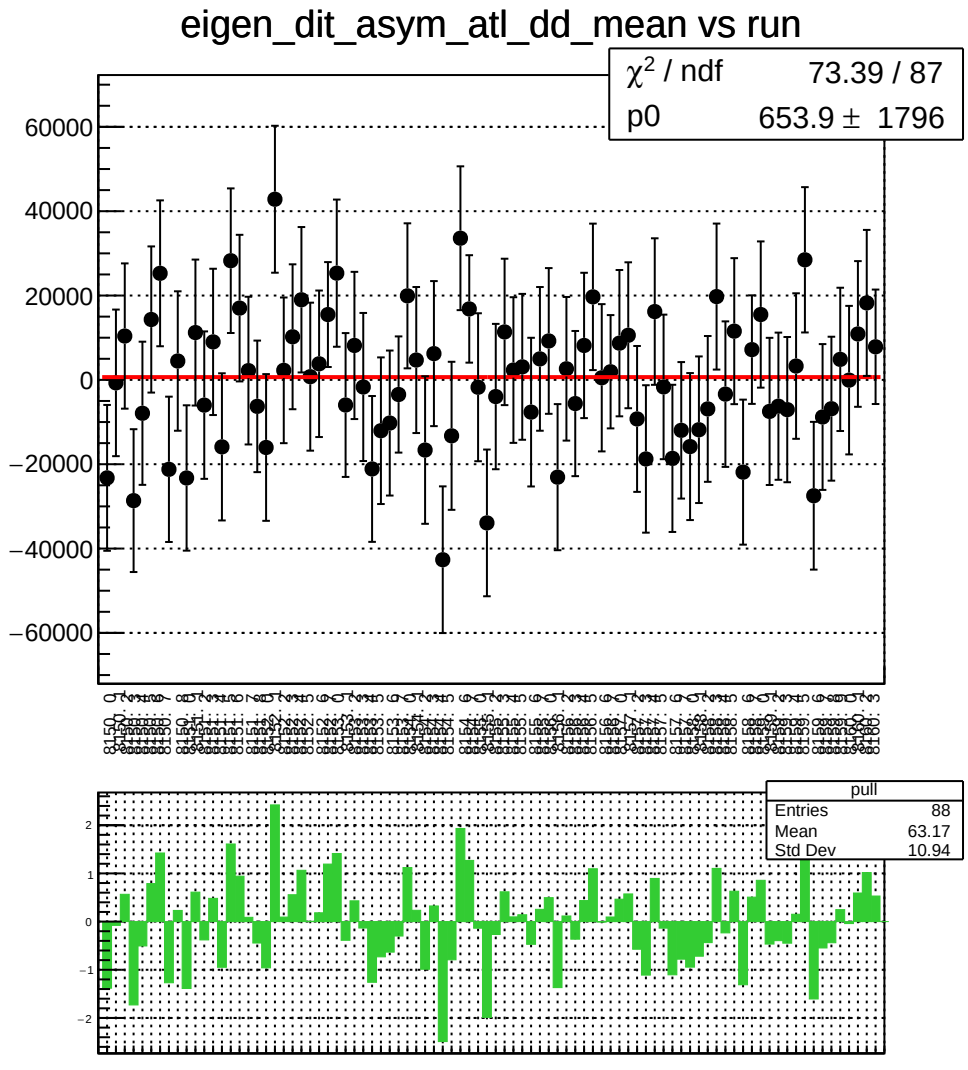

dit_asym_atl_dd_mean vs run
χ² / ndf 73.39 / 87
p0 653.9 ± 1796
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 63.17
Std Dev 10.94
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01338
Std Dev 0.9131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

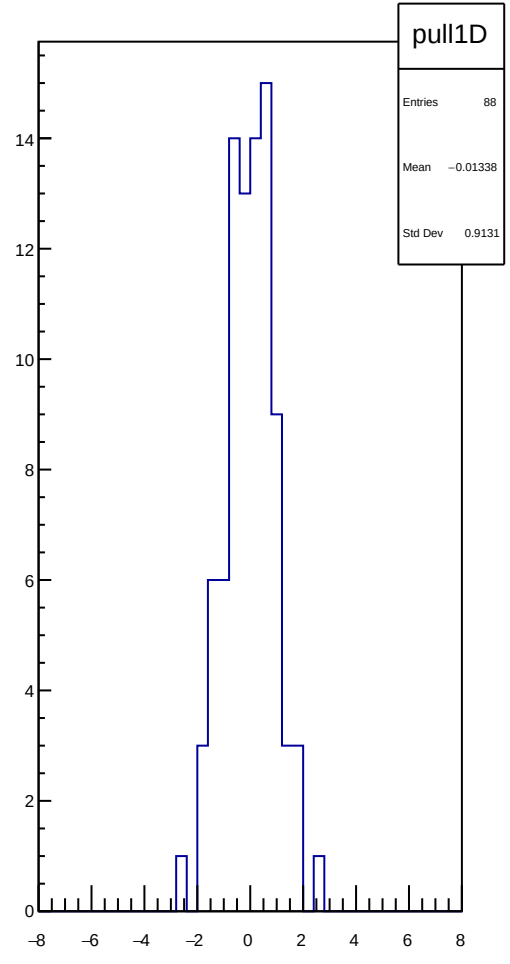

dit_asym_atl_dd_rms vs run
χ^2 / ndf 102.3 / 87
p0 1644 ± 1.27
1680
1660
1640
1620
1600

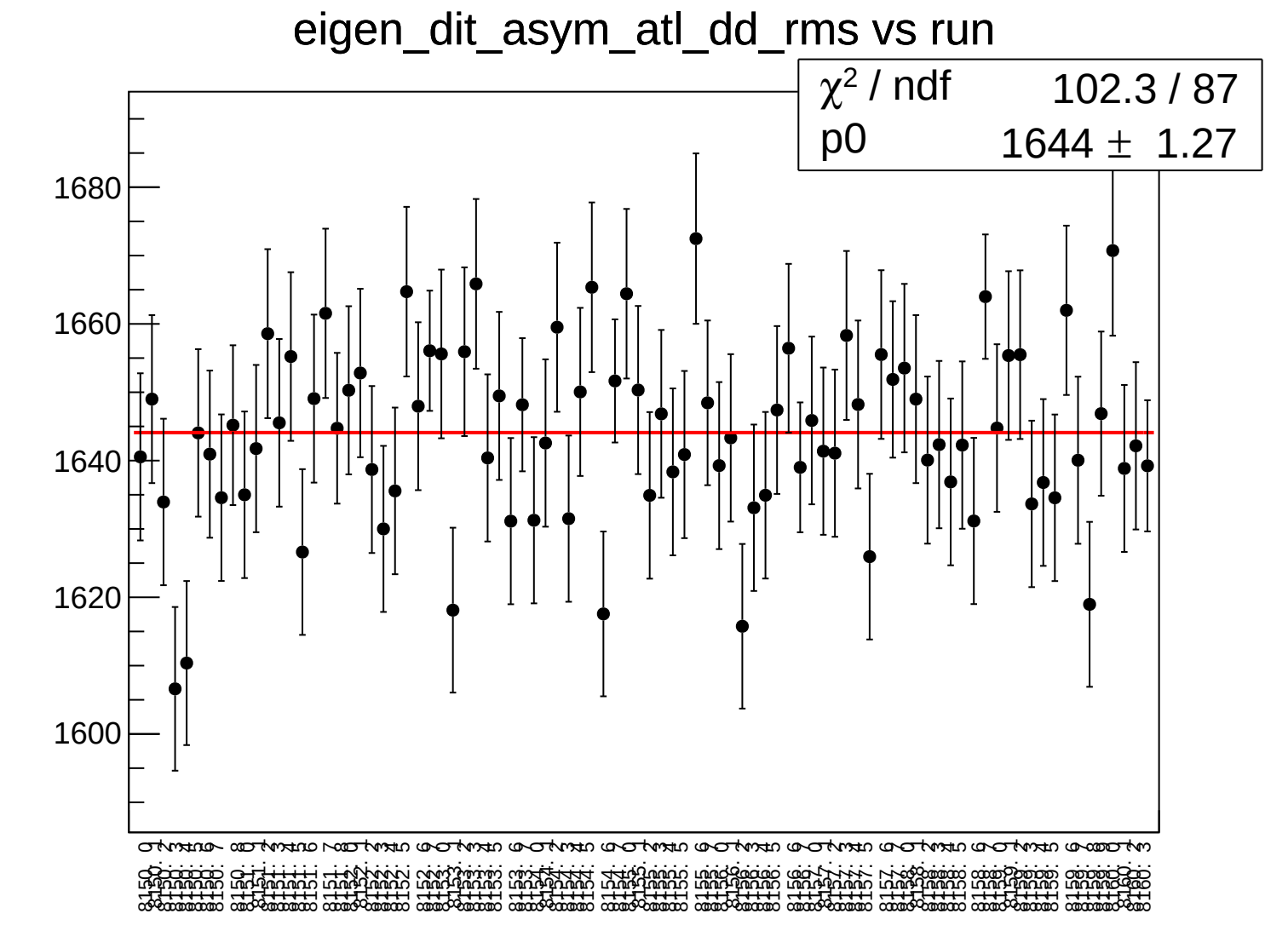

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 107.8 / 87
p0 9805 ± 4305
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −5962
Std Dev 0
3
2
1
0
−1
−2

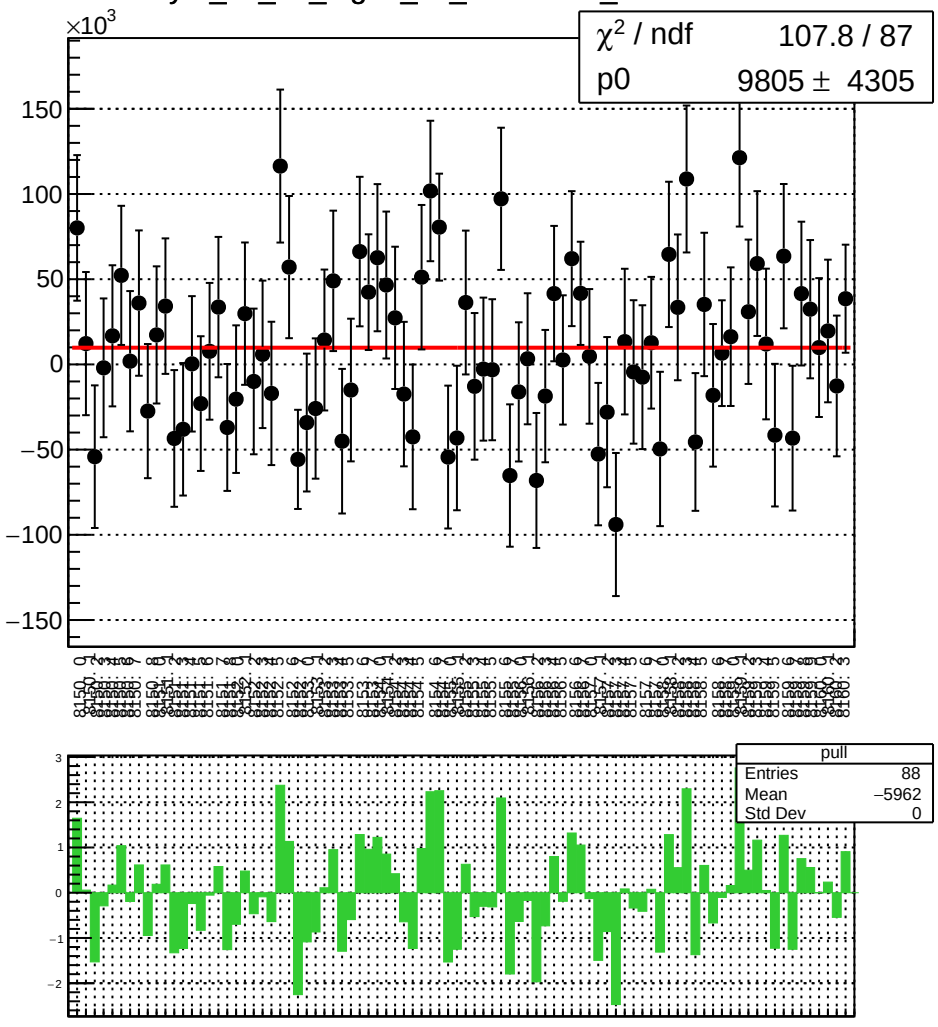

pull1D
Entries 88
Mean −0.0003732
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

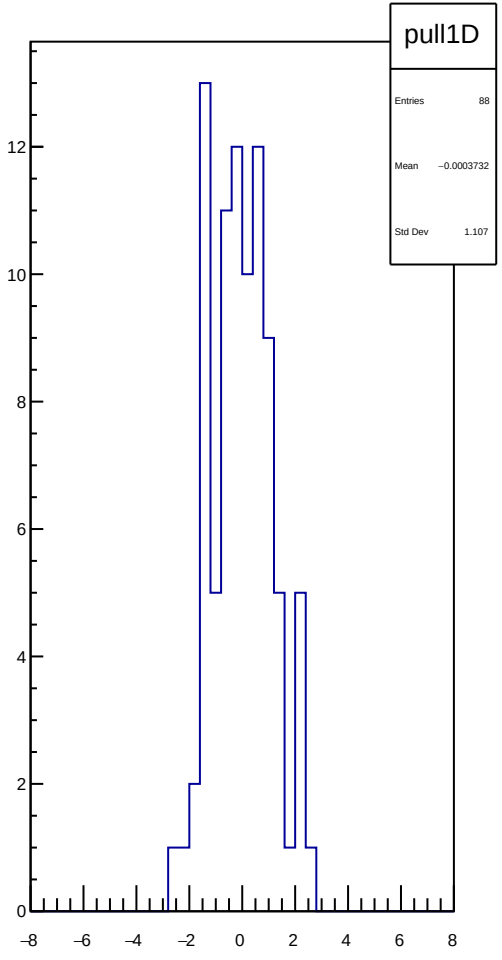

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 1877 / 87
p0 3939 ± 3.044
4400
4300
4200
4100
4000
3900
3800
3700
3600
3500

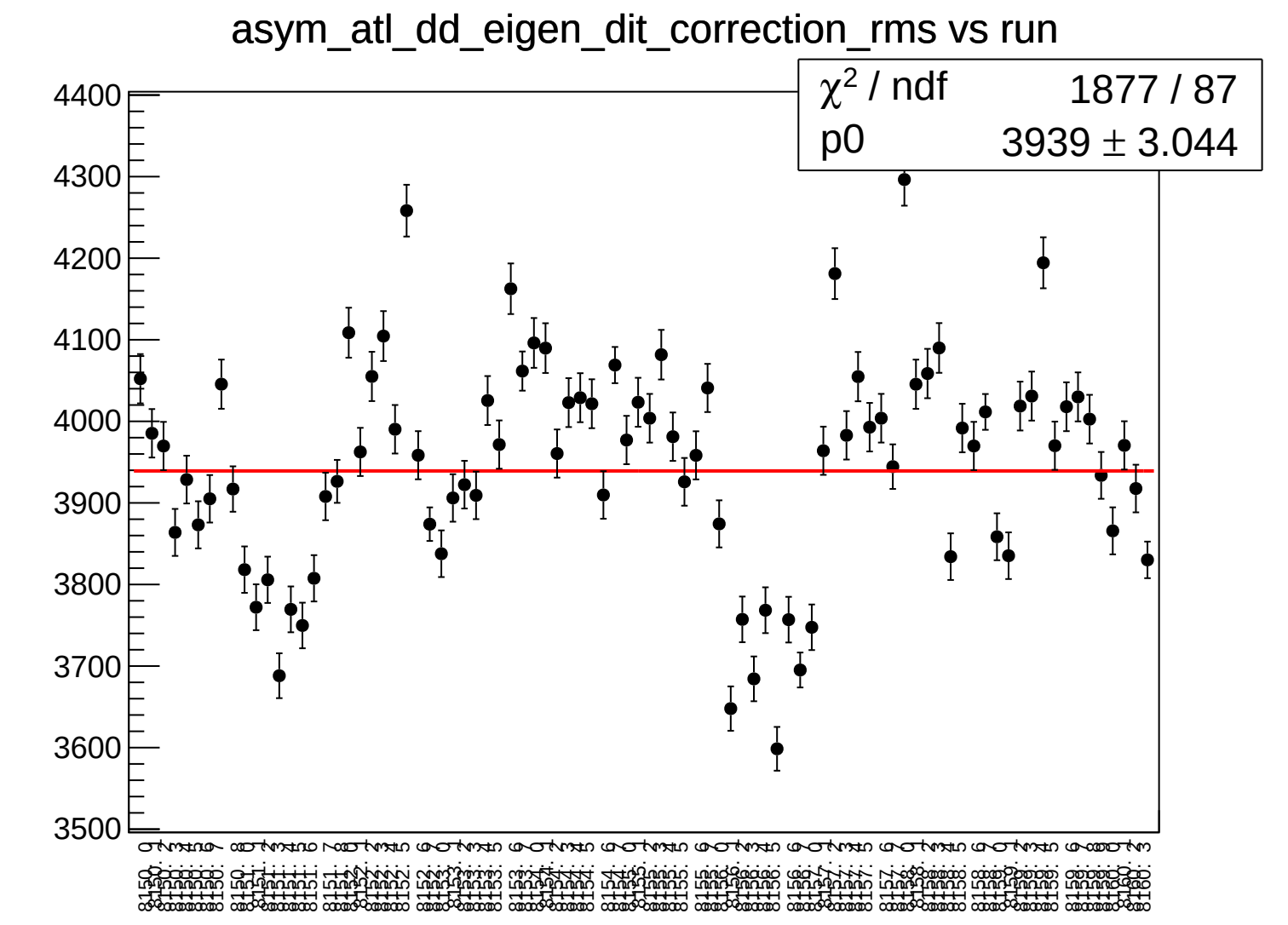

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 73.39 / 87
p0 653.9 ± 1796
pull
Entries 88
Mean 63.17
Std Dev 10.94

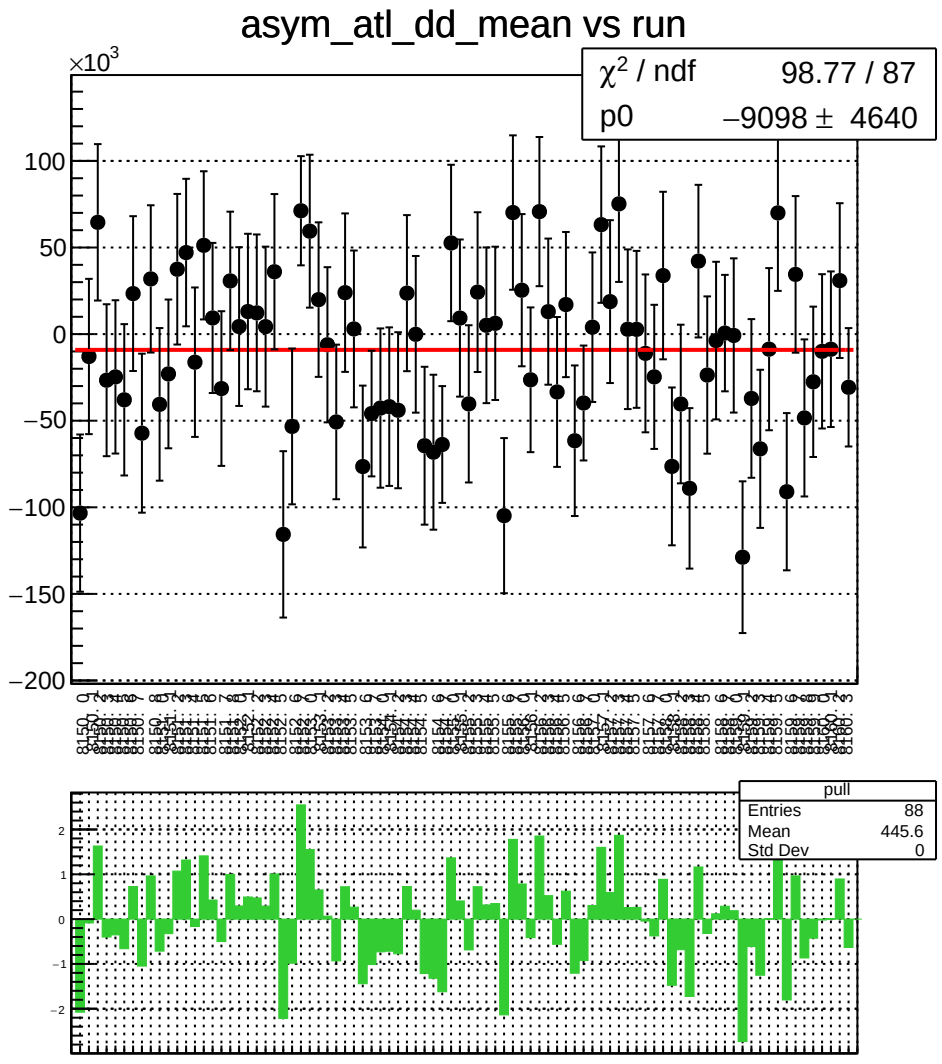

pull1D
Entries 88
Mean −0.01338
Std Dev 0.9131

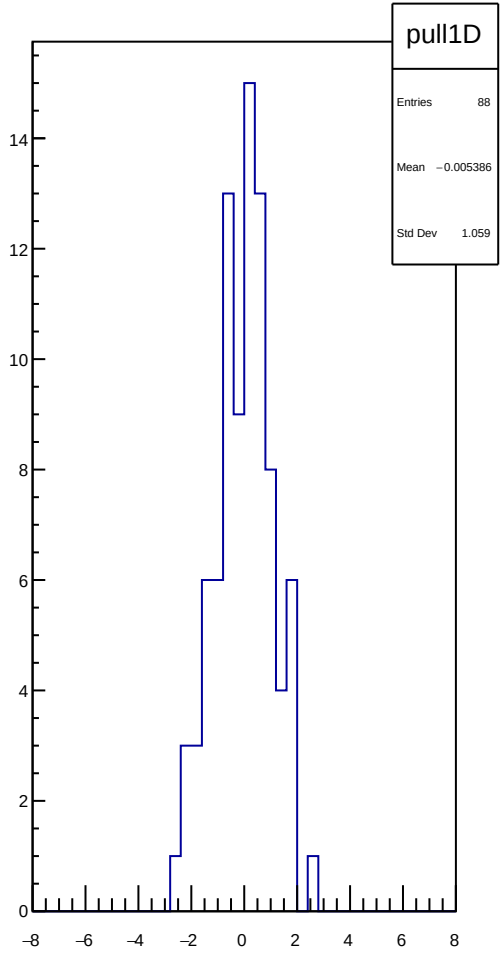

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 102.3 / 87
p0 1644 ± 1.27
1680
1660
1640
1620
1600

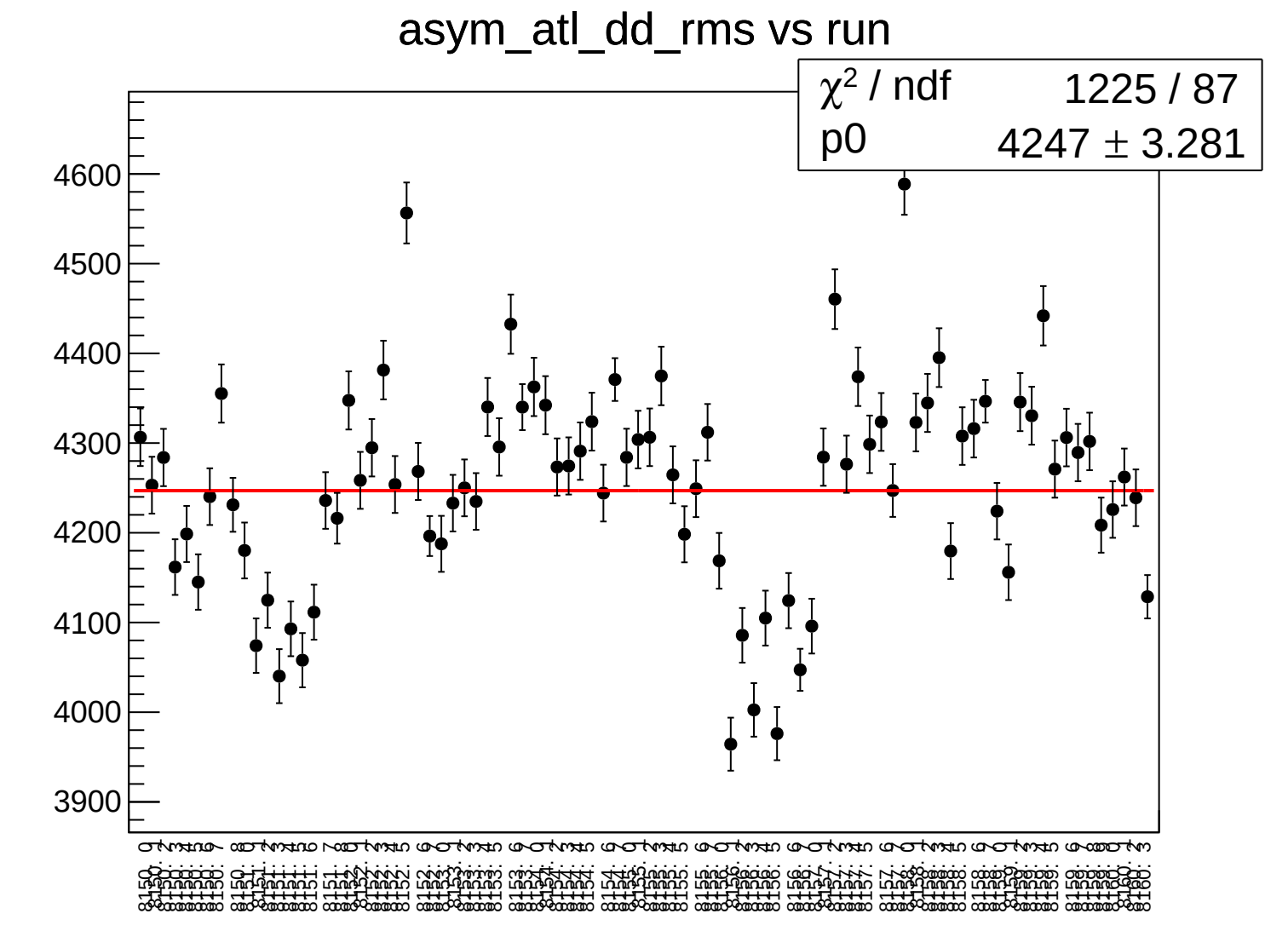

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.8 / 87
p0 9805 ± 4305
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −5962
Std Dev 0
3
2
1
0
−1
−2

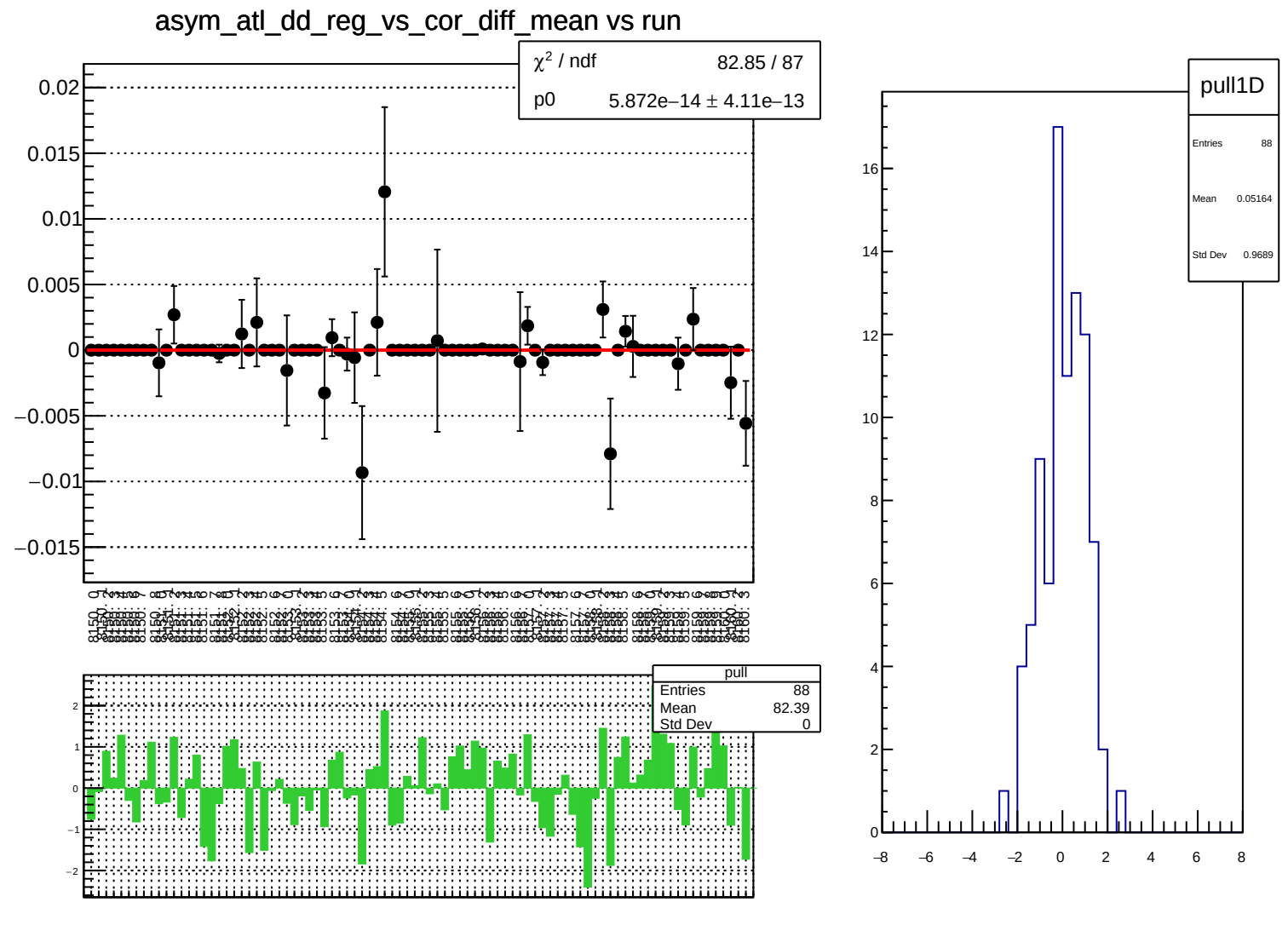

pull1D
Entries 88
Mean −0.0003732
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

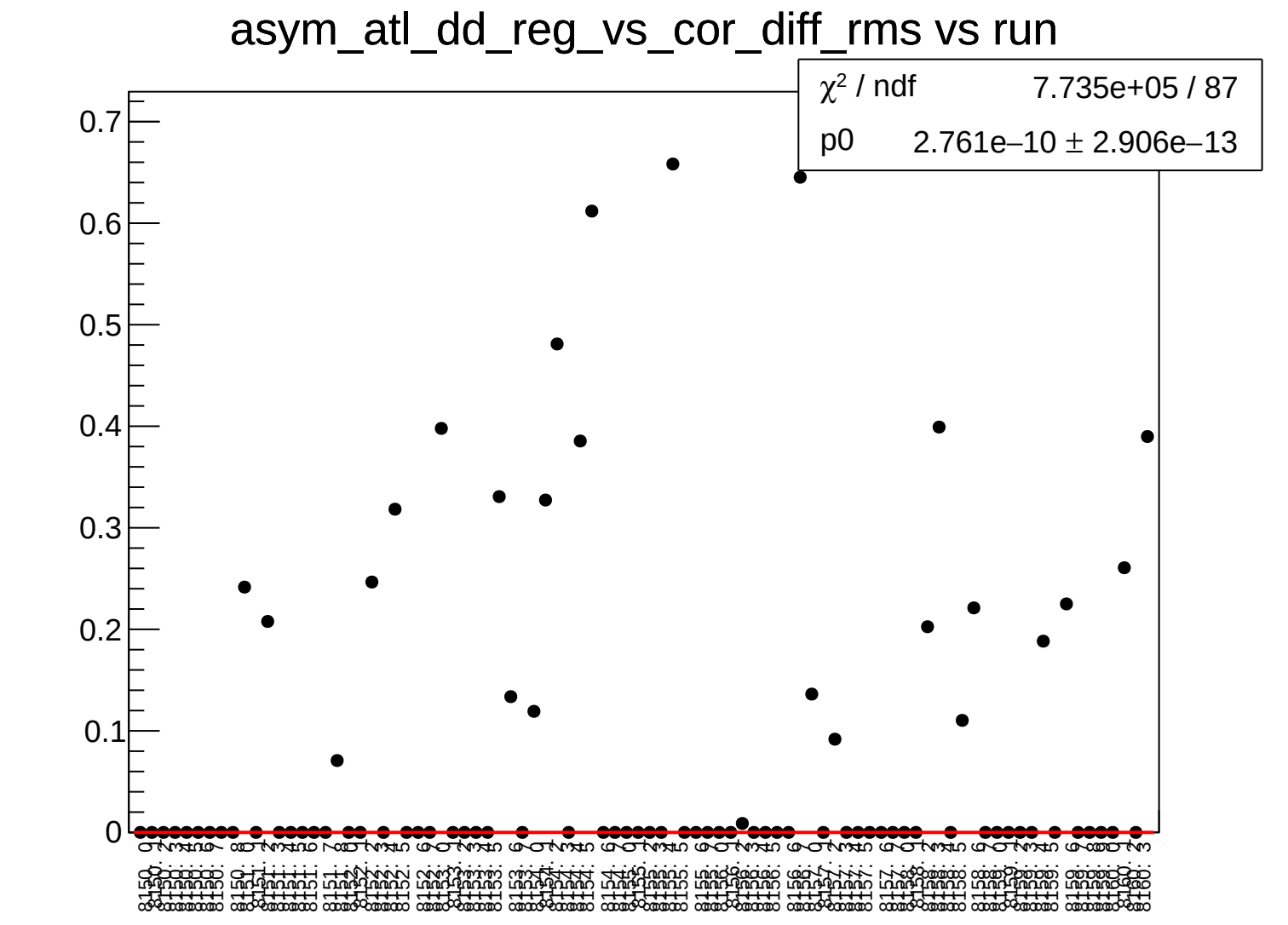

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1877 / 87
p0 3939 ± 3.044
4400
4300
4200
4100
4000
3900
3800
3700
3600
3500

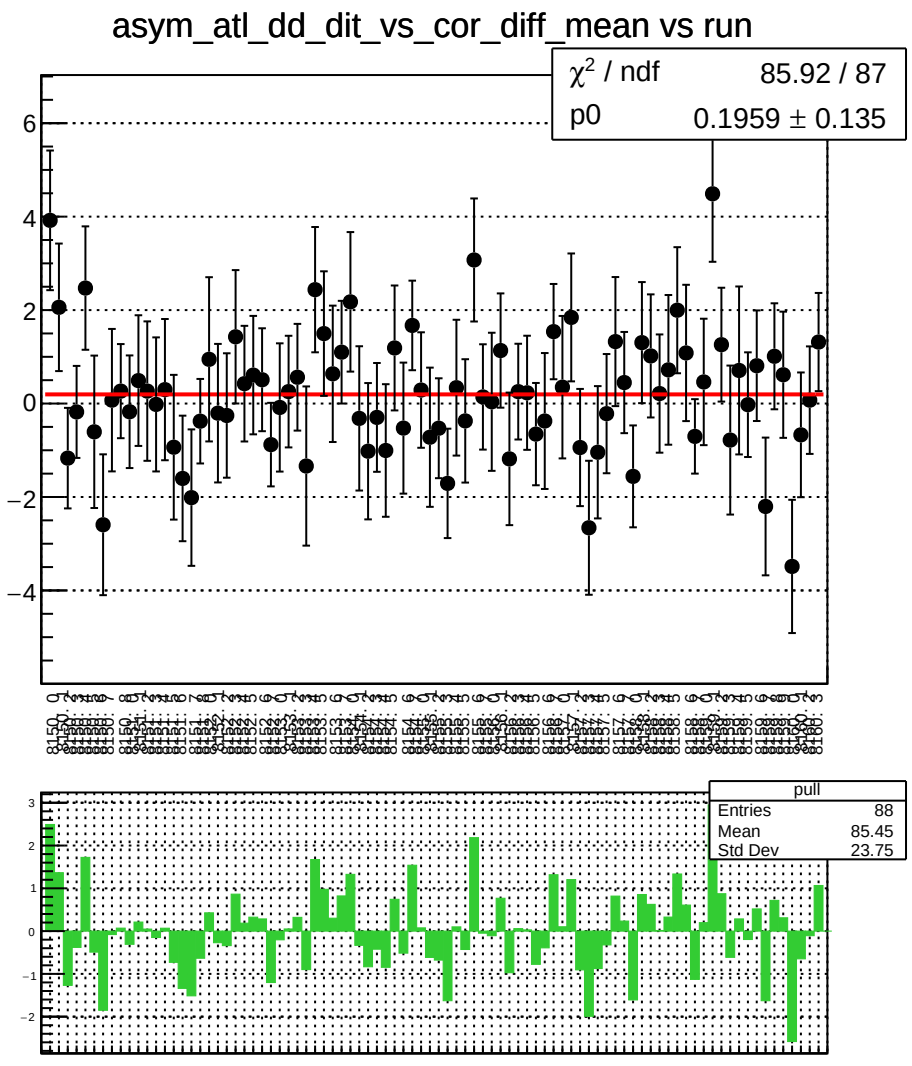

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 98.77 / 87
p0 −9098 ± 4640
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 445.6
Std Dev 0
2
1
0
−1
−2

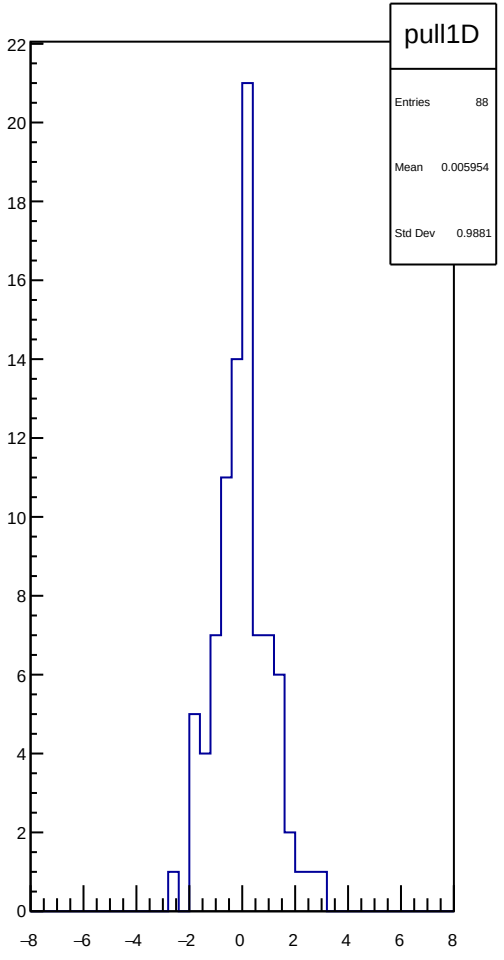

pull1D
Entries 88
Mean −0.005386
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

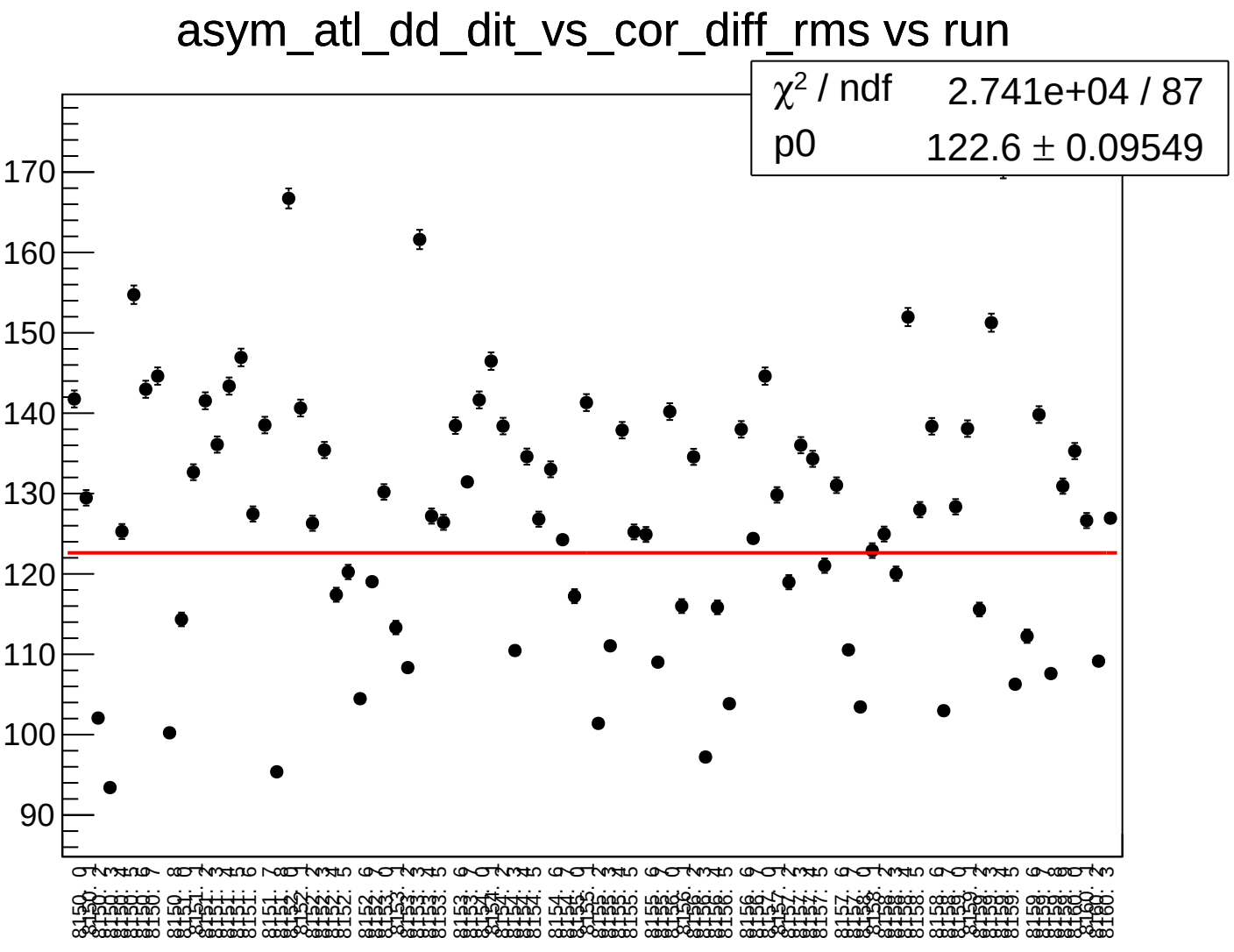

asym_atl_dd_rms vs run
χ² / ndf 1225 / 87
p0 4247 ± 3.281
4600
4500
4400
4300
4200
4100
4000
3900

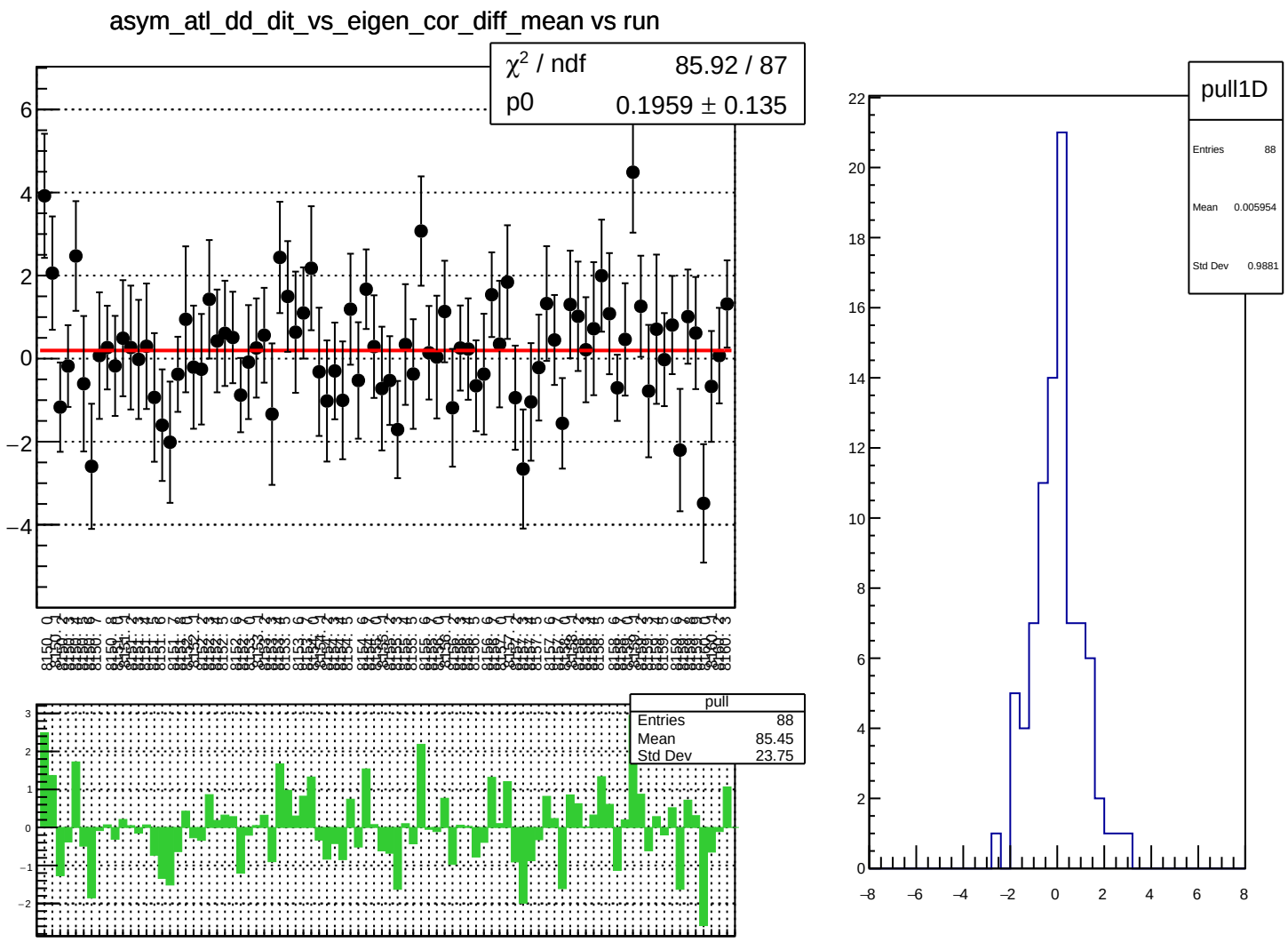

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.85 / 87
p0 5.872e−14 ± 4.11e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 82.39
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.05164
Std Dev 0.9689
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

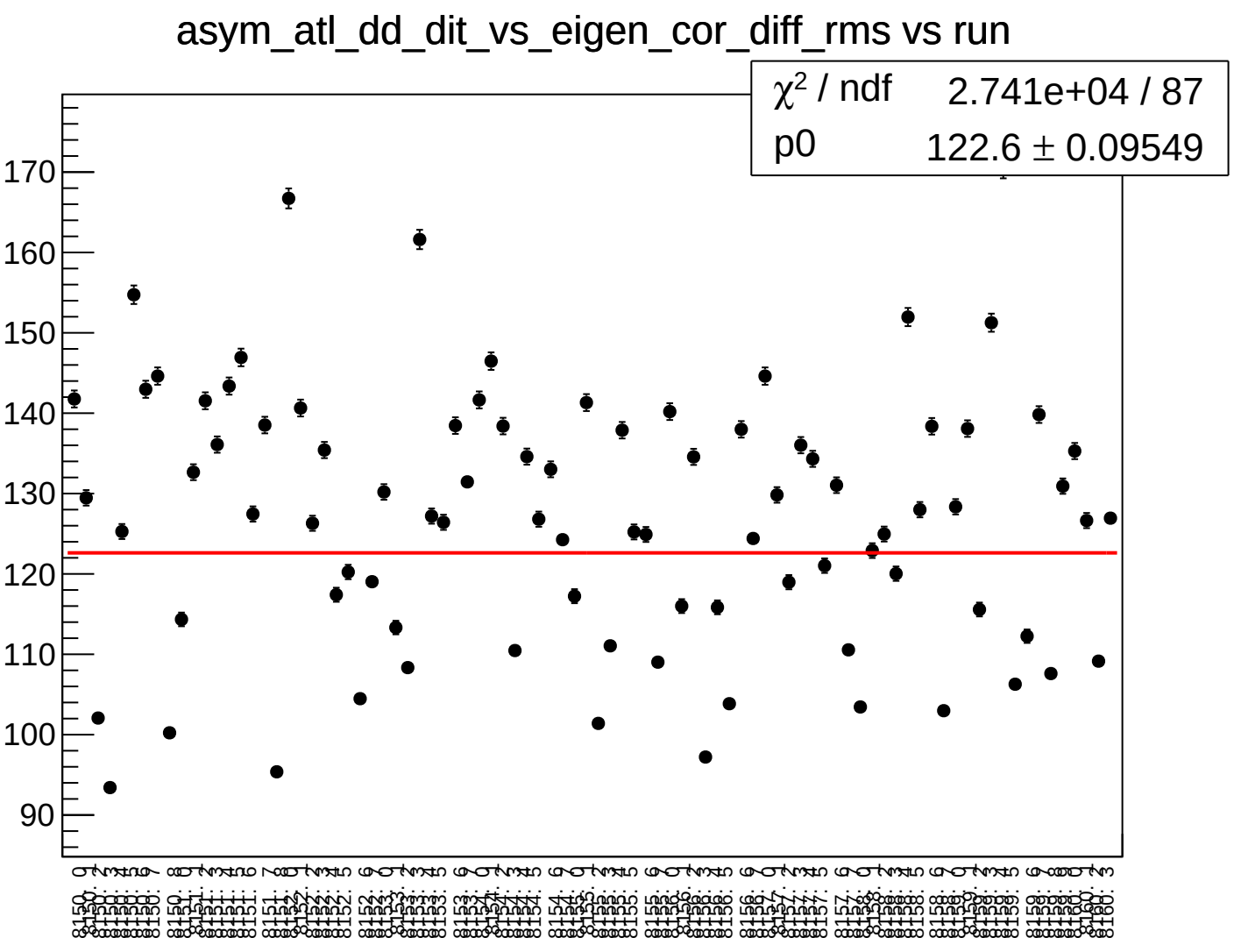

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.735e+05 / 87
p0 2.761e−10 ± 2.906e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

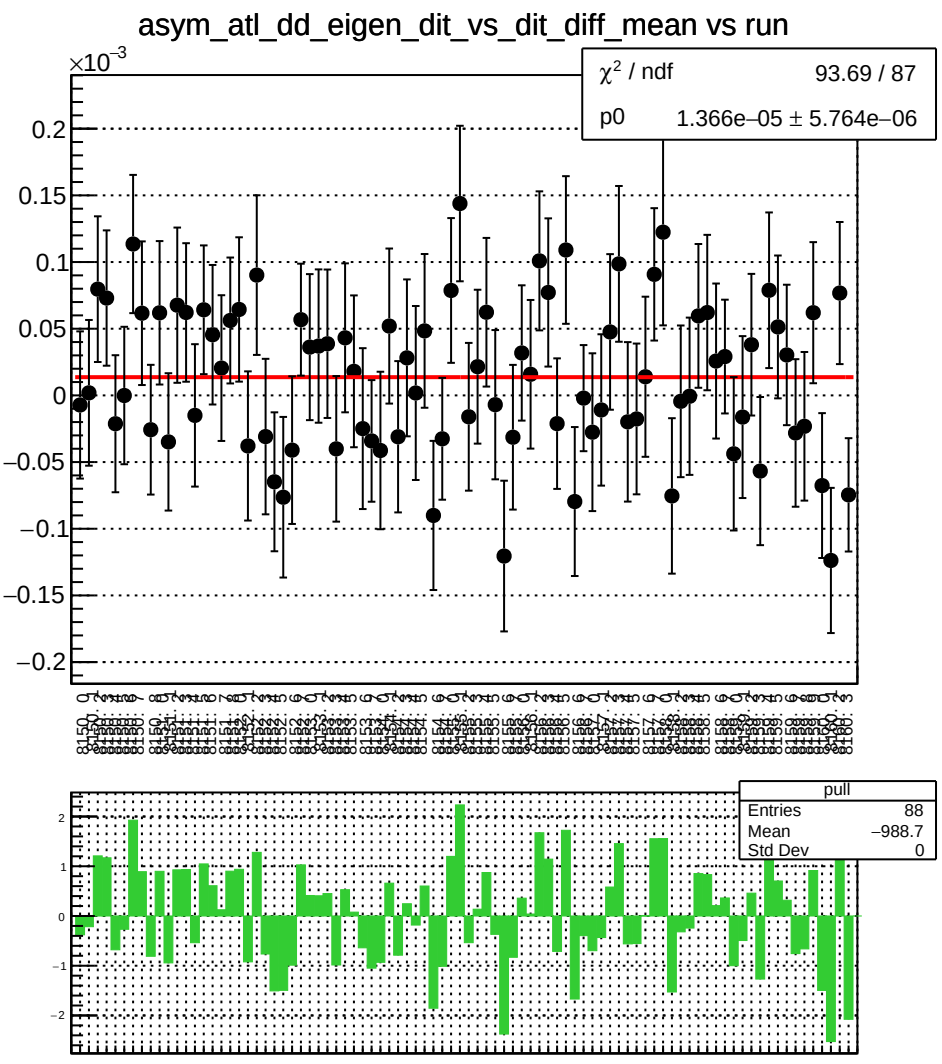

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.92 / 87
p0 0.1959 ± 0.135
pull
Entries 88
Mean 85.45
Std Dev 23.75

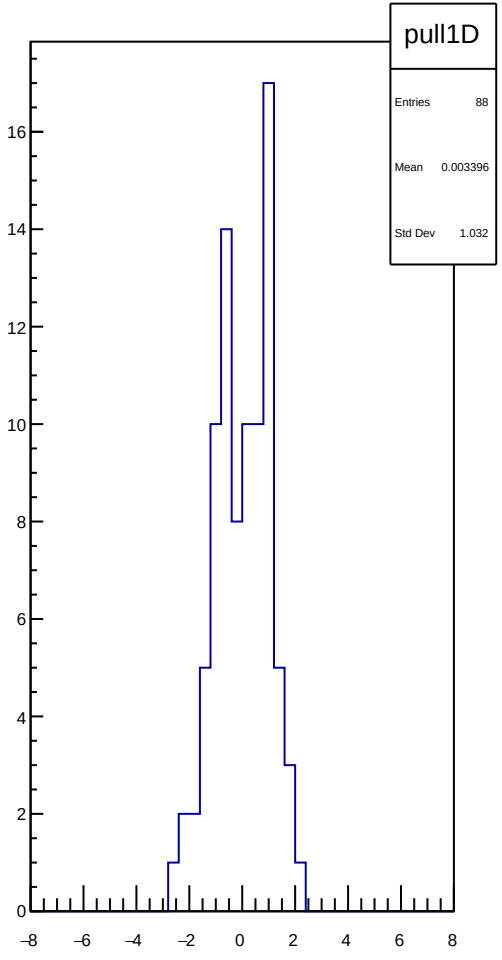

pull1D
Entries 88
Mean 0.005954
Std Dev 0.9881

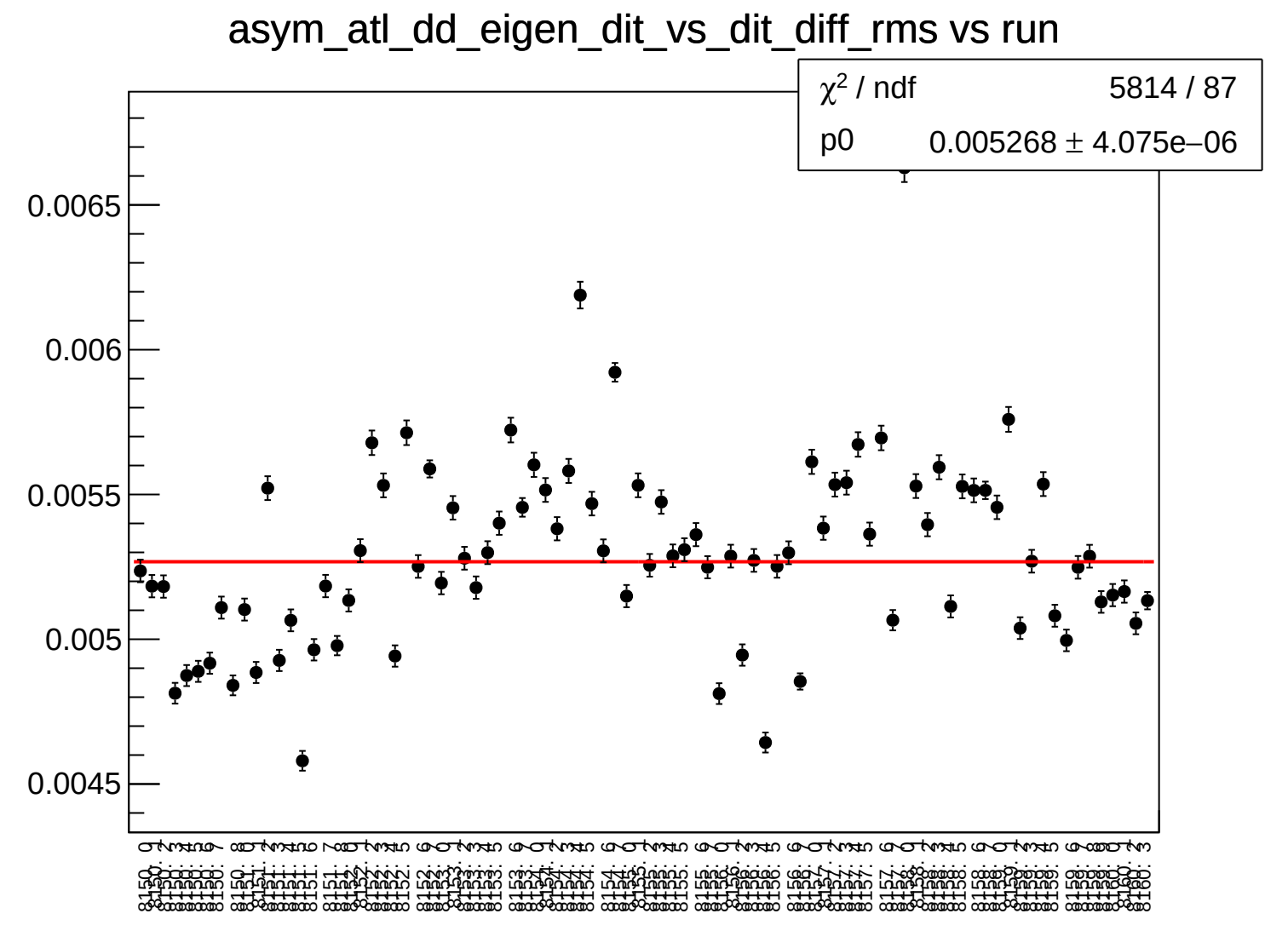

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.741e+04 / 87
p0 122.6 ± 0.09549
170
160
150
140
130
120
110
100
90

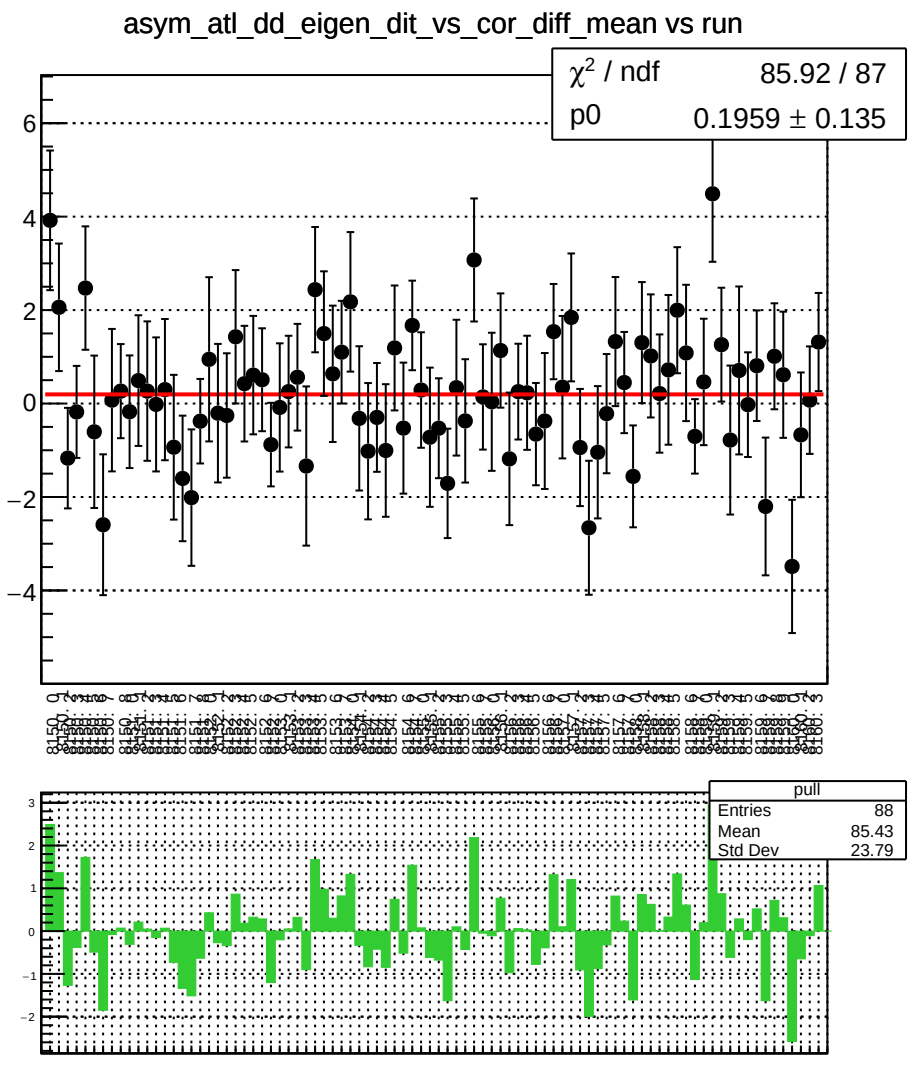

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.92 / 87
p0 0.1959 ± 0.135
pull
Entries 88
Mean 85.45
Std Dev 23.75
pull1D
Entries 88
Mean 0.005954
Std Dev 0.9881

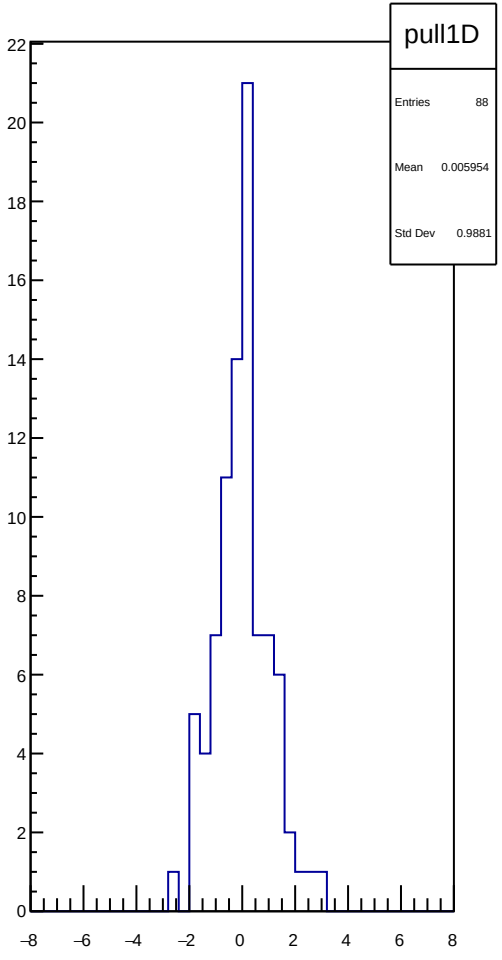

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.741e+04 / 87
p0 122.6 ± 0.09549
170
160
150
140
130
120
110
100
90

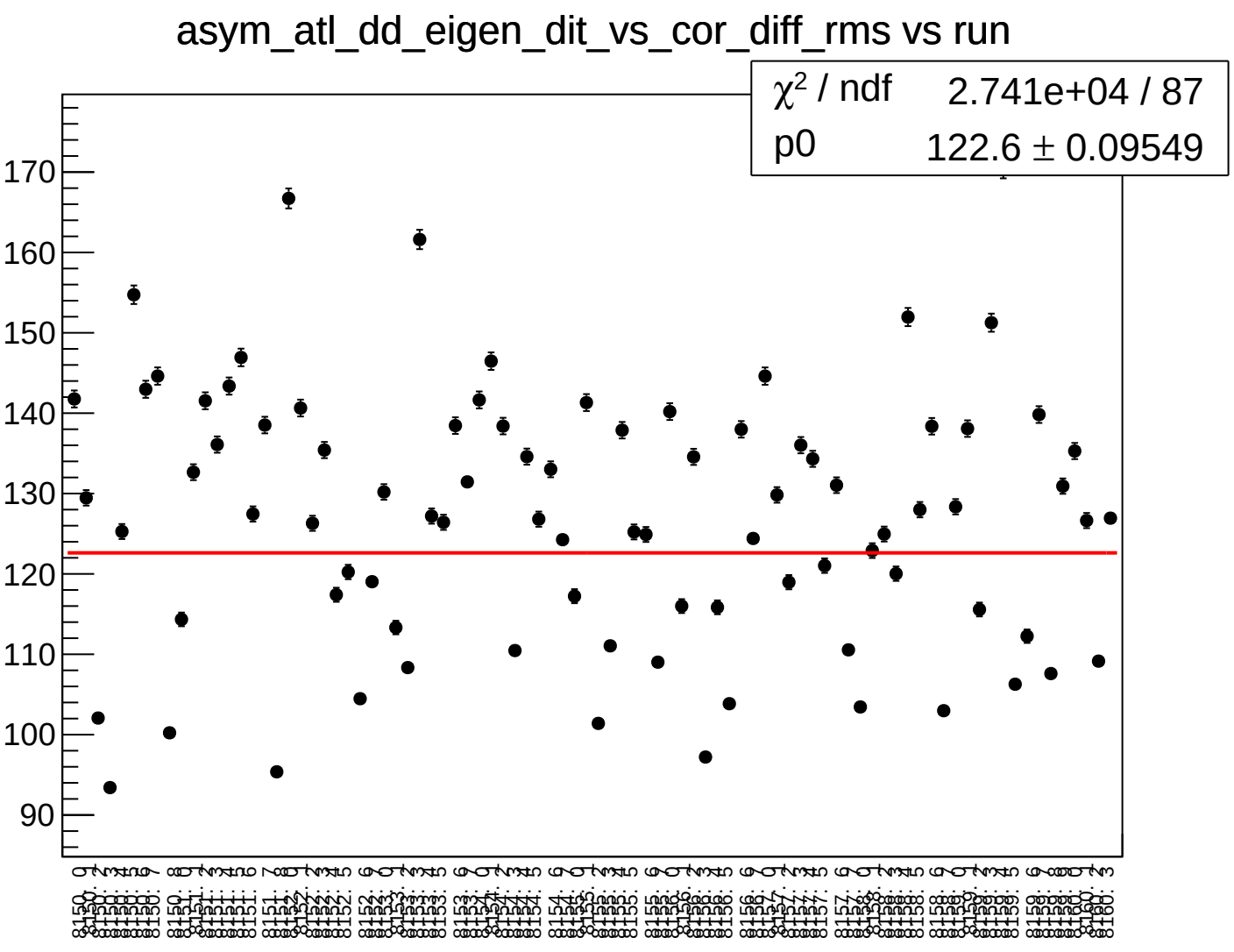

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.69 / 87
p0 1.366e−05 ± 5.764e−06
pull
Entries 88
Mean −988.7
Std Dev 0


pull1D
Entries 88
Mean 0.003396
Std Dev 1.032

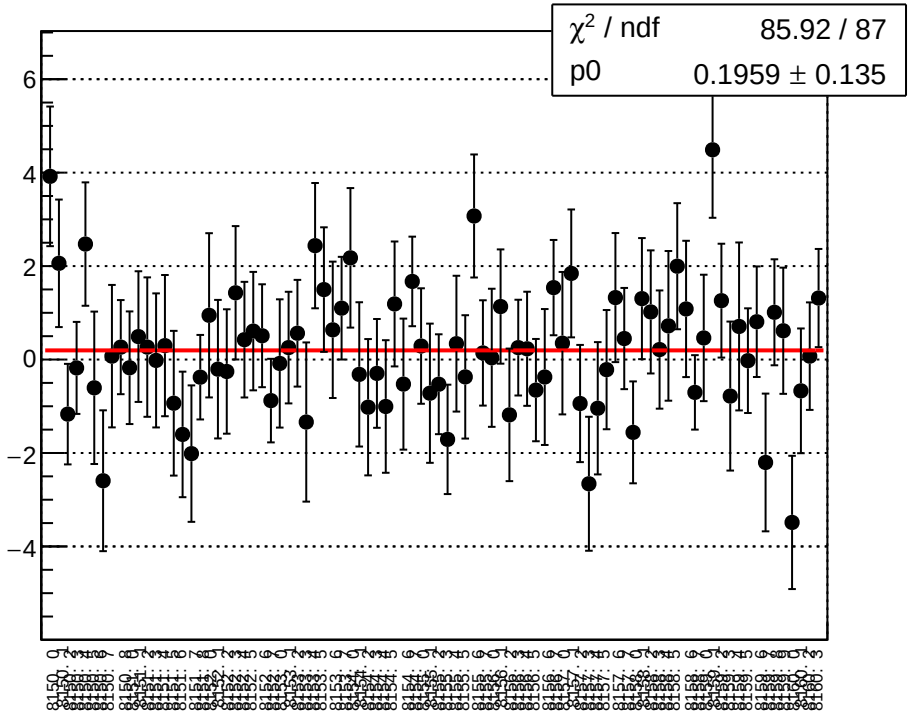

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5814 / 87
p0 0.005268 ± 4.075e−06
0.0065
0.006
0.0055
0.005
0.0045

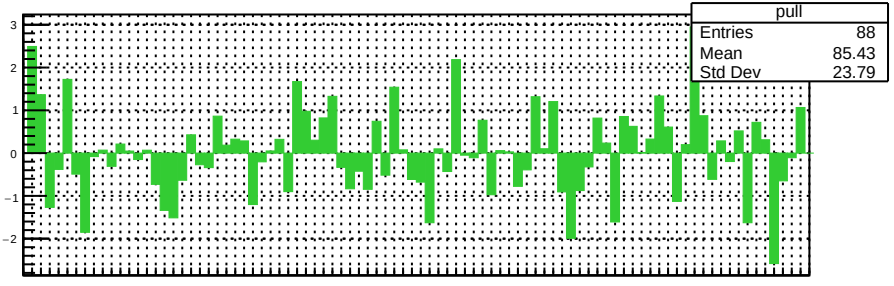

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.92 / 87
p0 0.1959 ± 0.135
pull
Entries 88
Mean 85.43
Std Dev 23.79

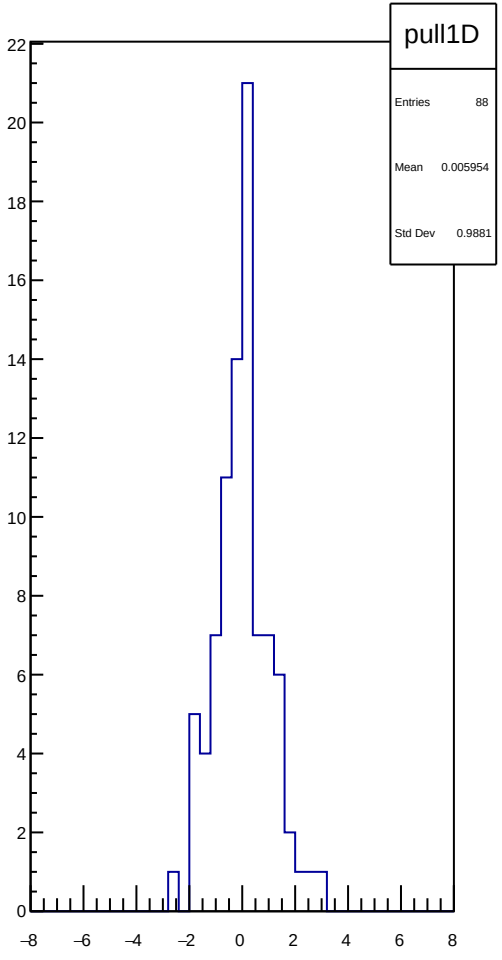

pull1D
Entries 88
Mean 0.005954
Std Dev 0.9881

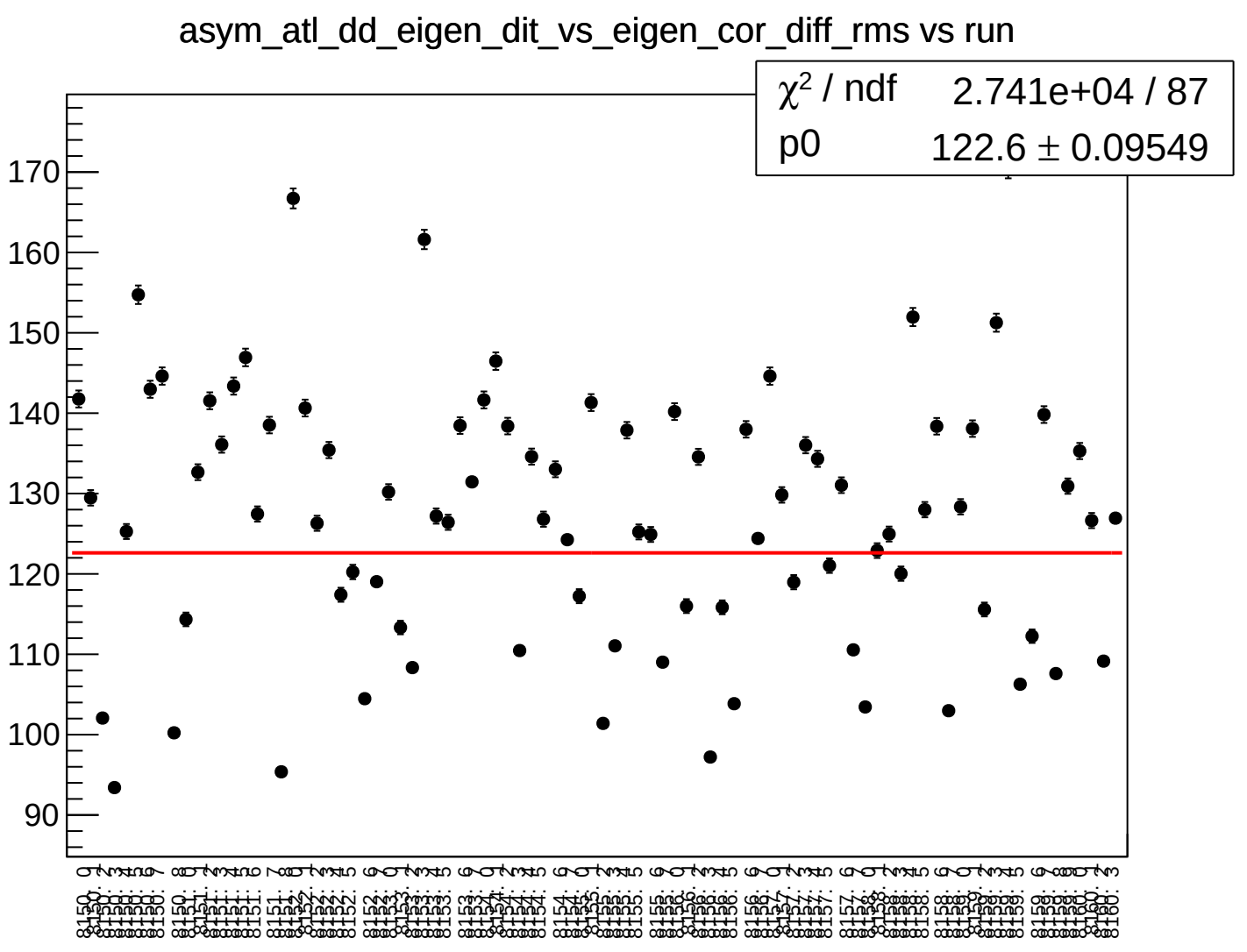

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.741e+04 / 87
p0 122.6 ± 0.09549
170
160
150
140
130
120
110
100
90

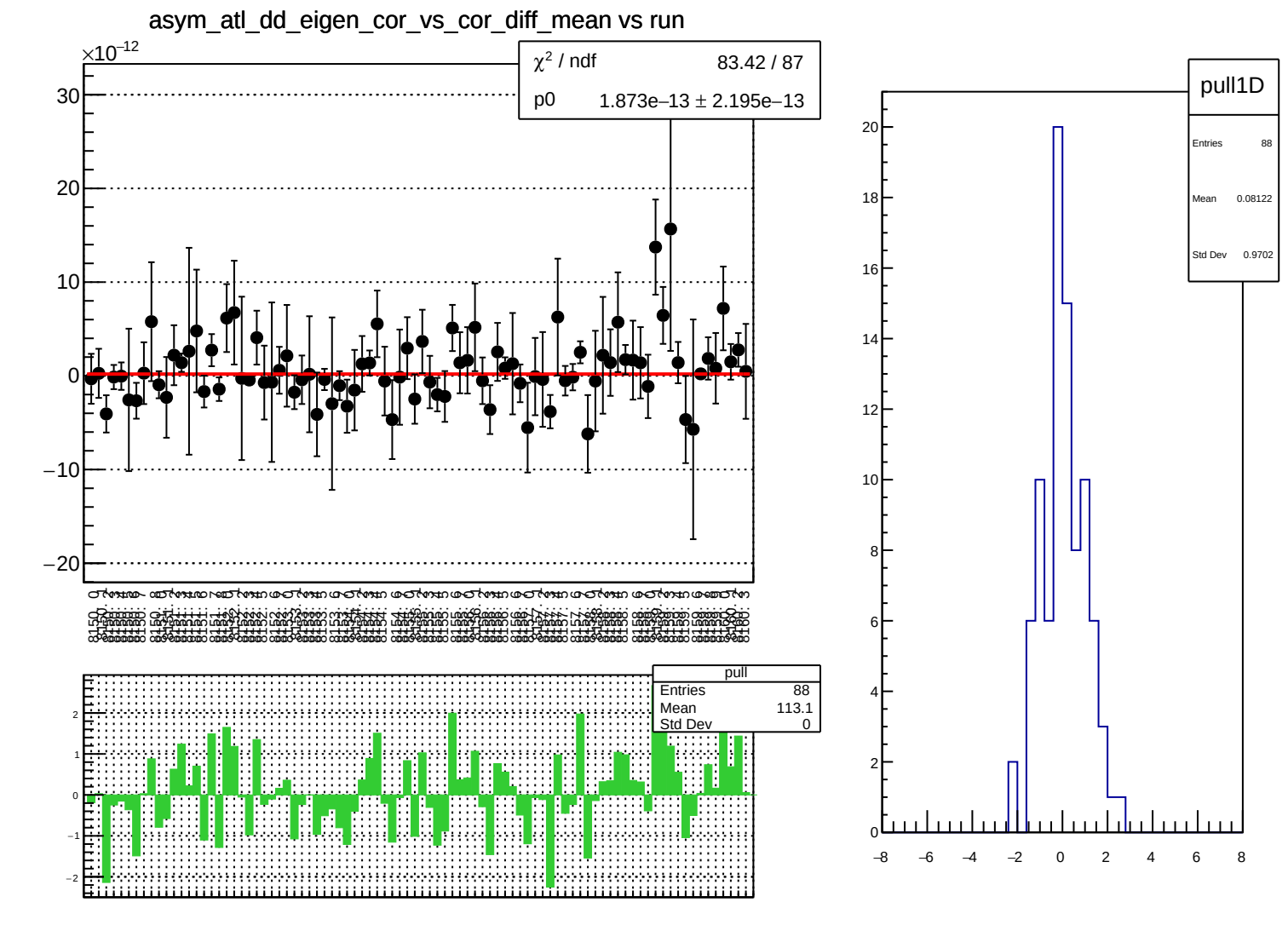
asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

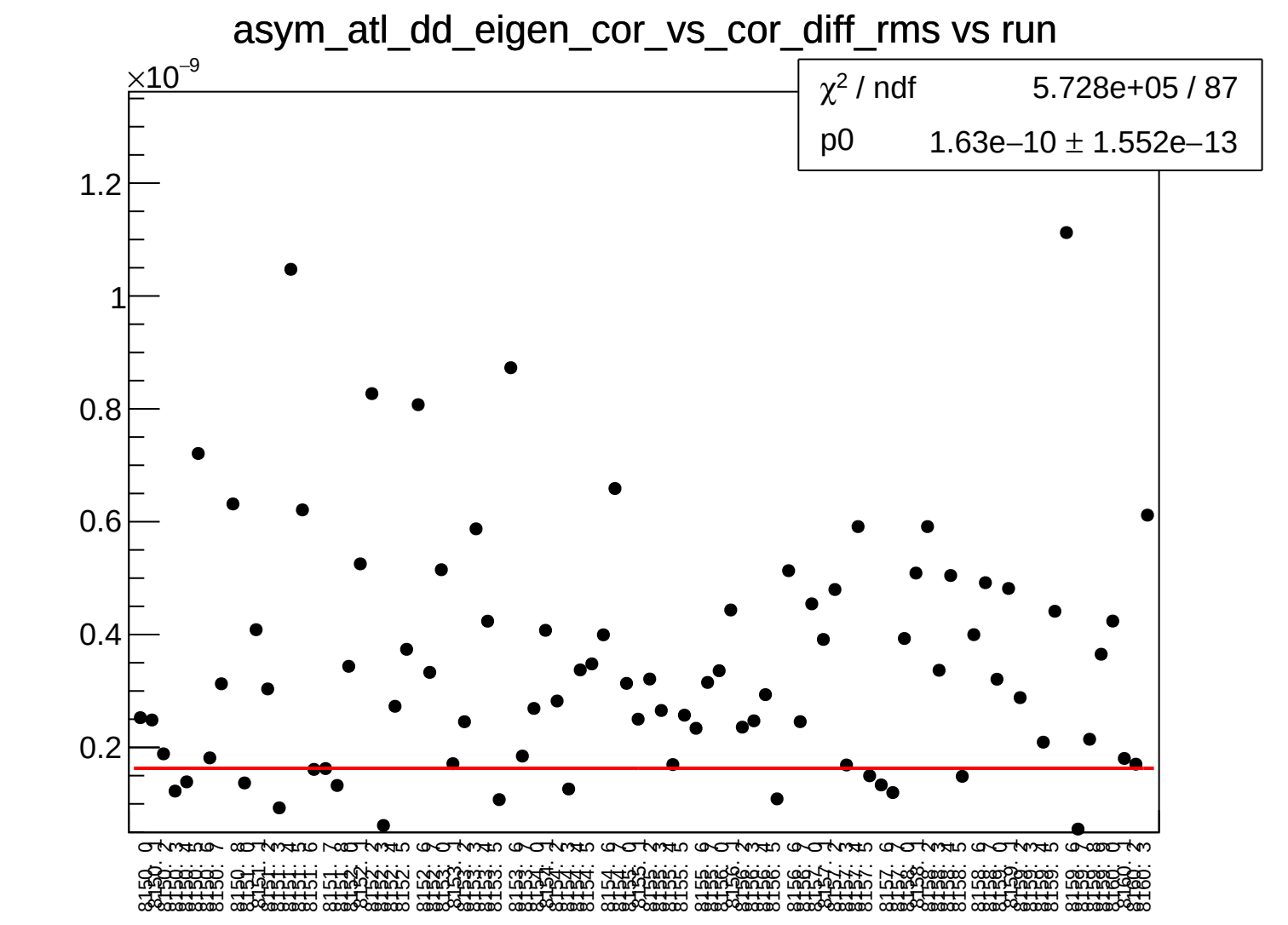


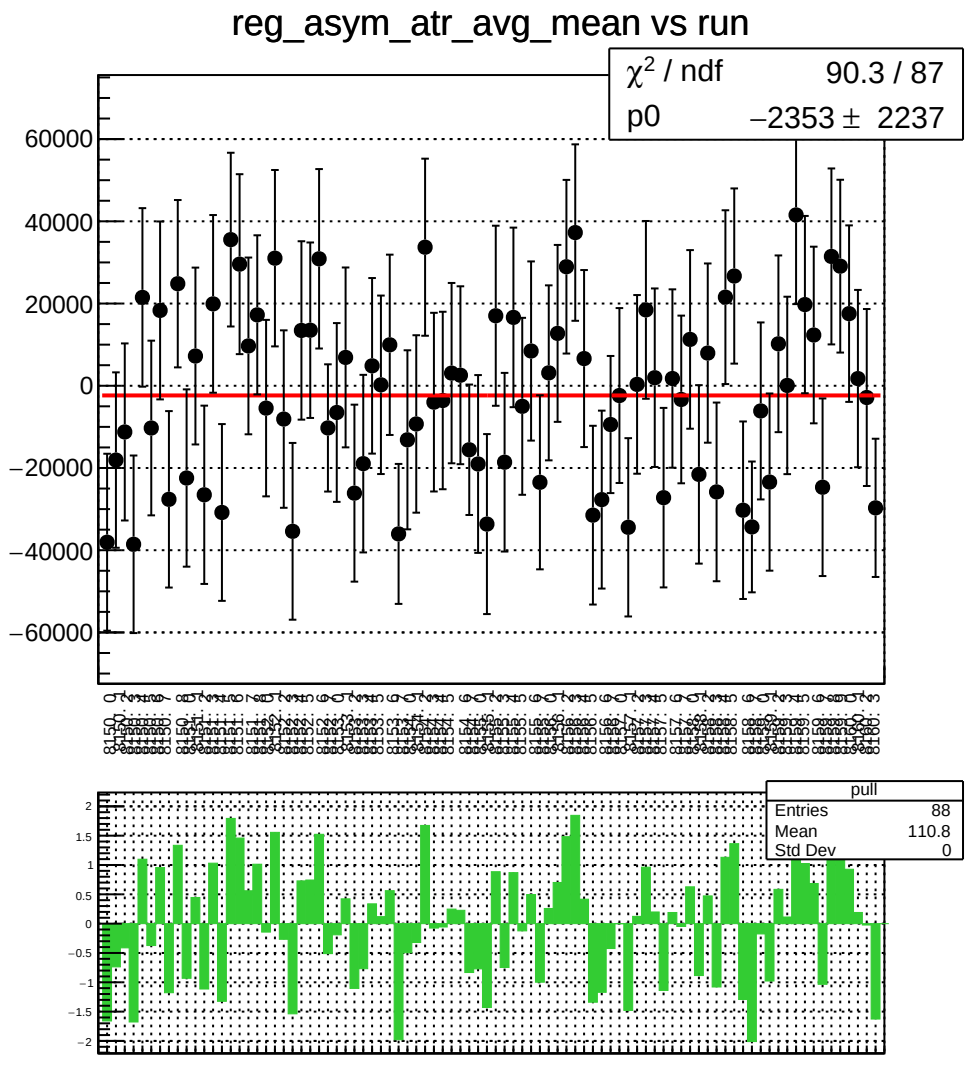


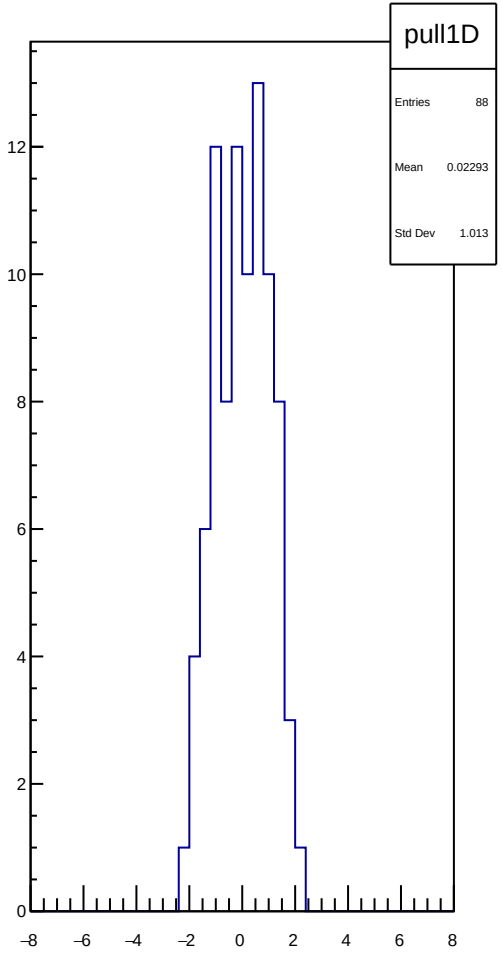


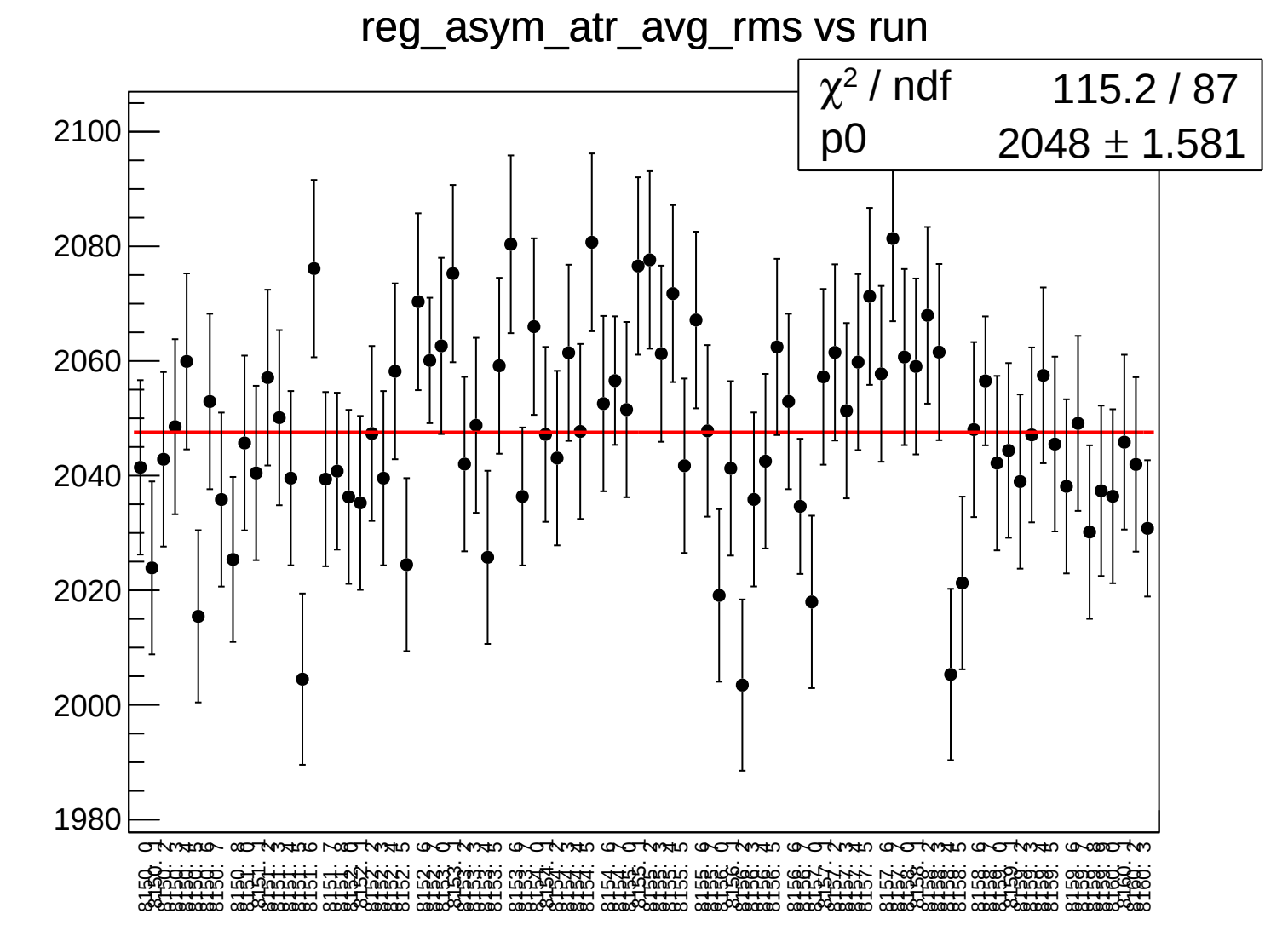

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.741e+04 / 87
p0 122.6 ± 0.09549
170
160
150
140
130
120
110
100
90

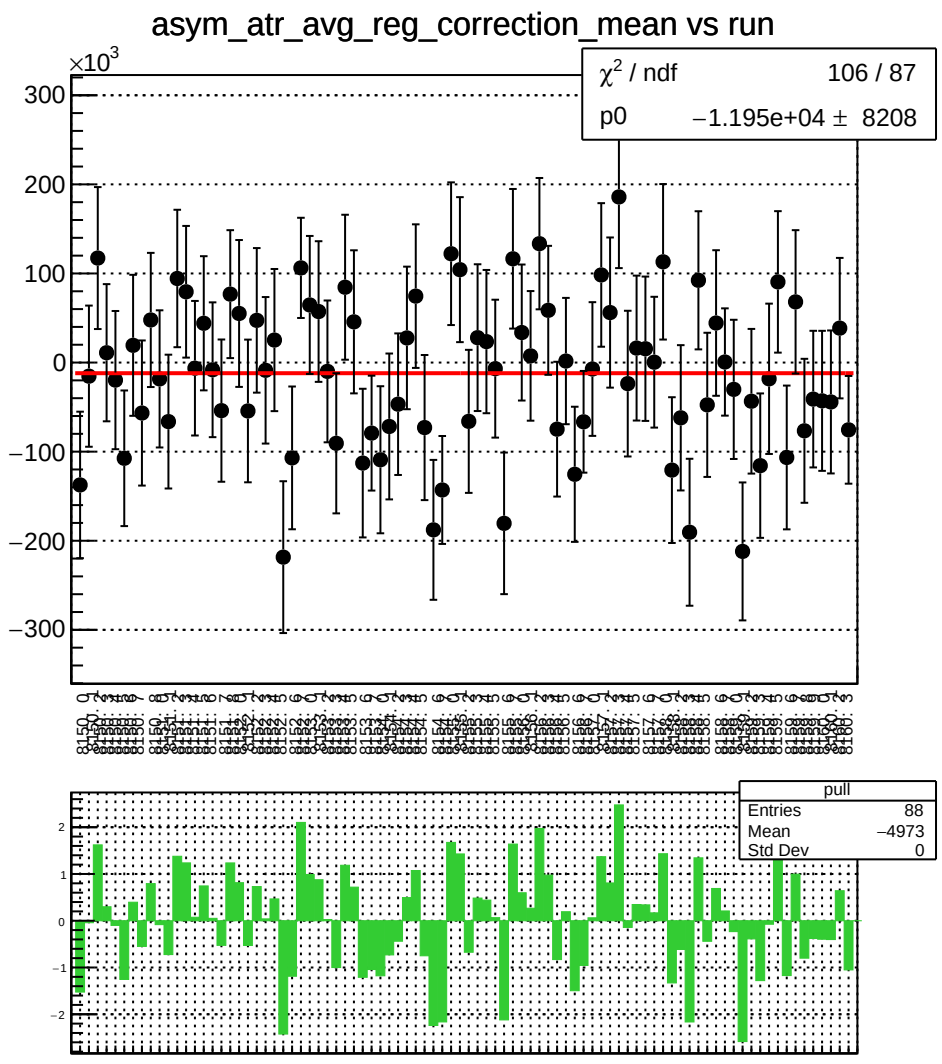

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.42 / 87
p0 1.873e−13 ± 2.195e−13
pull
Entries 88
Mean 113.1
Std Dev 0
pull1D
Entries 88
Mean 0.08122
Std Dev 0.9702

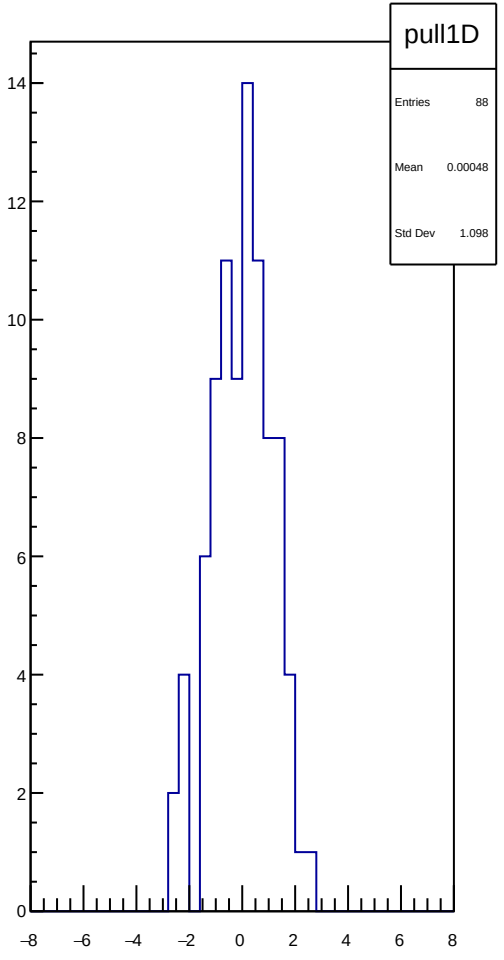

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.728e+05 / 87
p0 1.63e−10 ± 1.552e−13
1.2
1
0.8
0.6
0.4
0.2

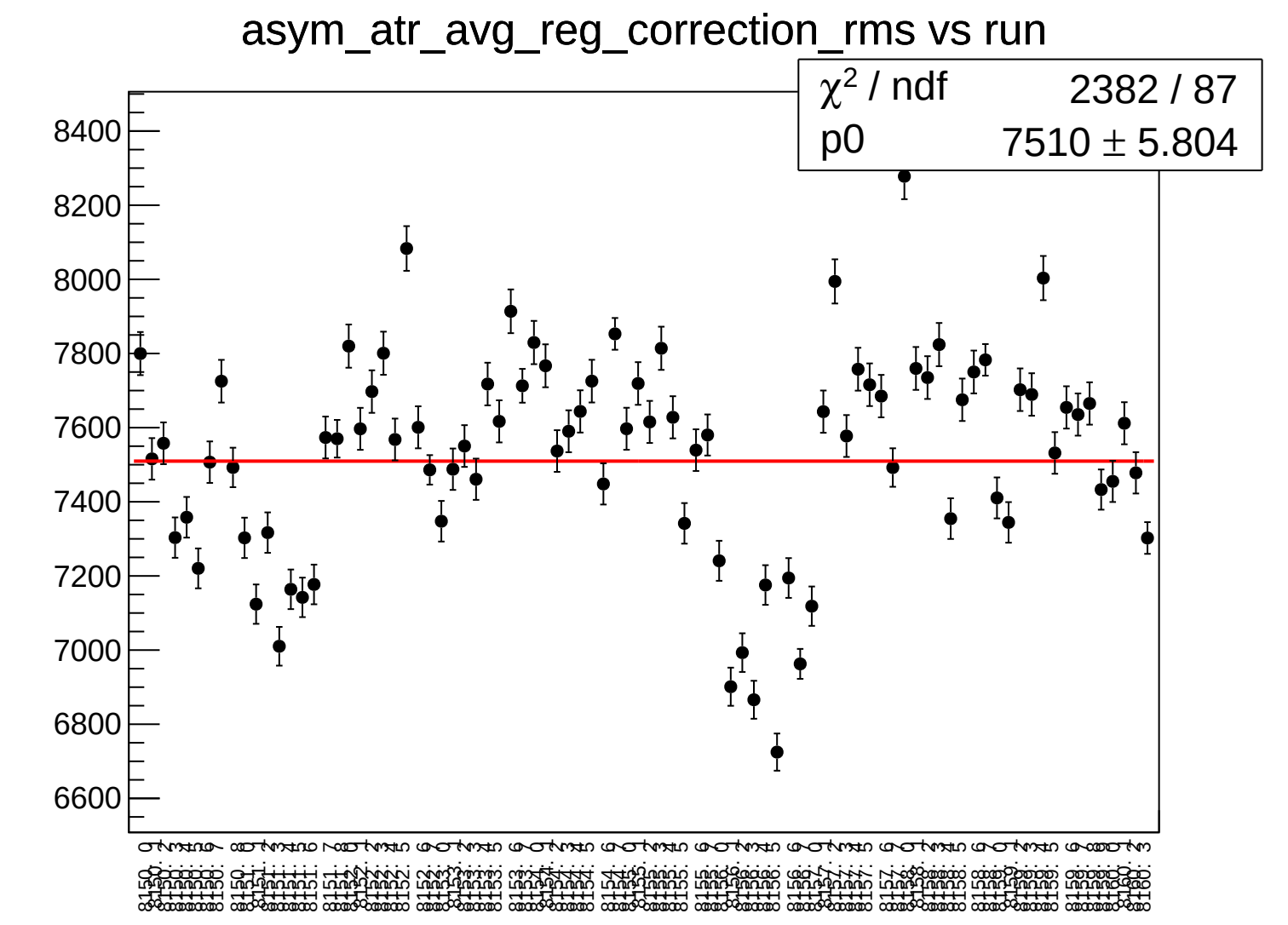

reg_asym_atr_avg_mean vs run
χ² / ndf 90.3 / 87
p0 −2353 ± 2237
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 110.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

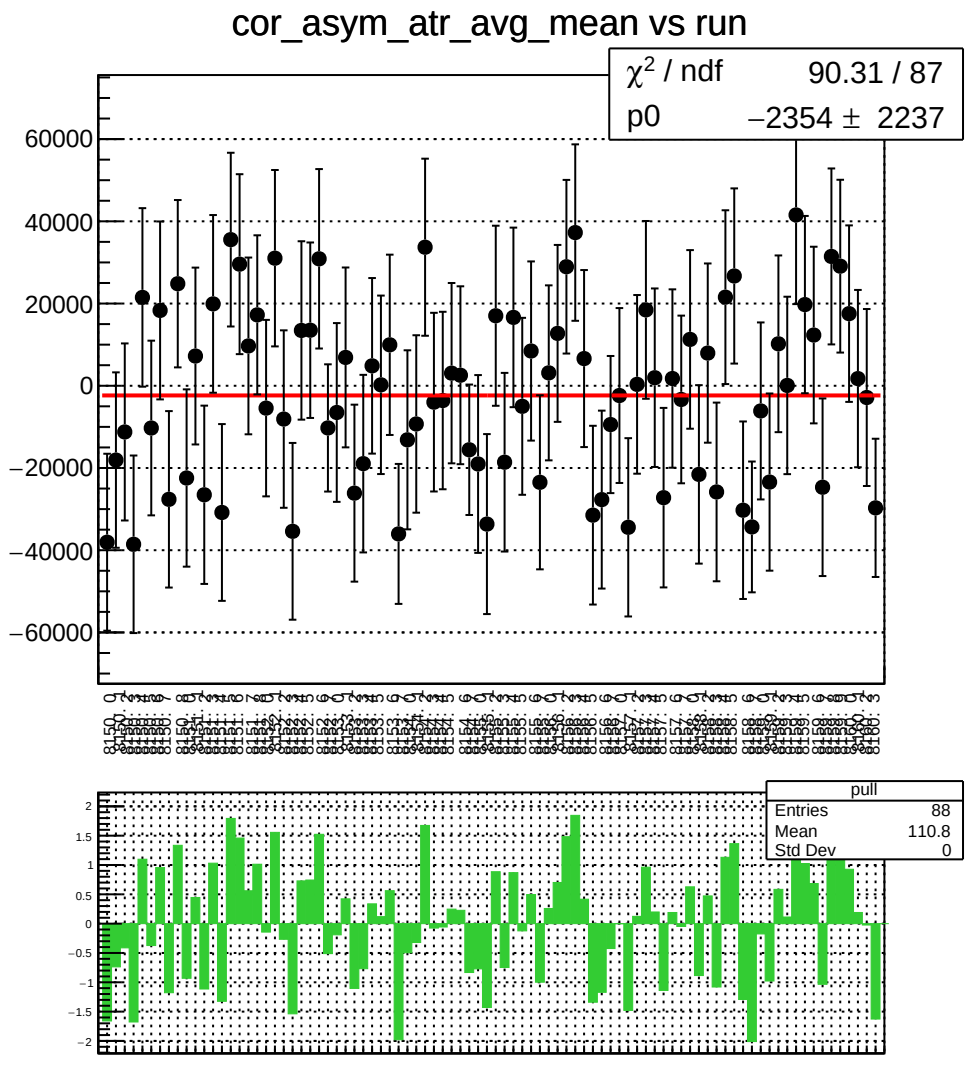

pull1D
Entries 88
Mean 0.02293
Std Dev 1.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

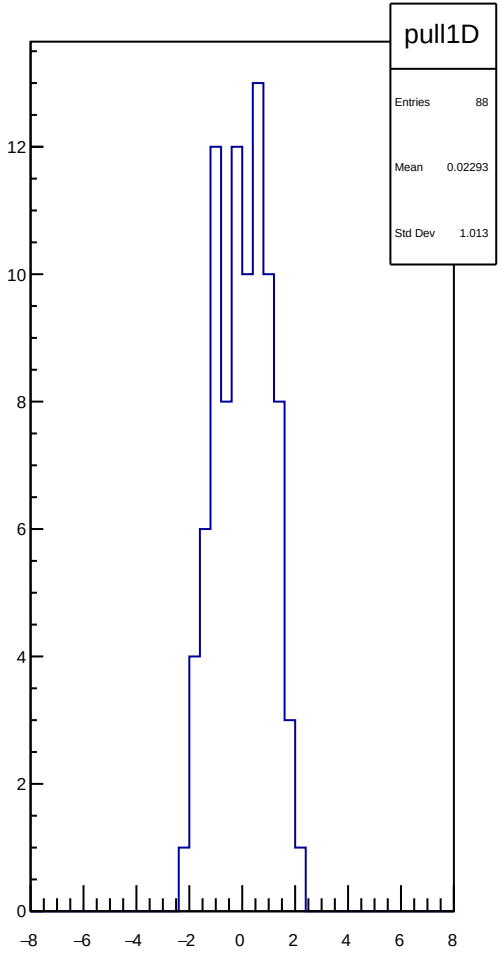

reg_asym_atr_avg_rms vs run
χ^2 / ndf 115.2 / 87
p0 2048 ± 1.581
2100
2080
2060
2040
2020
2000
1980

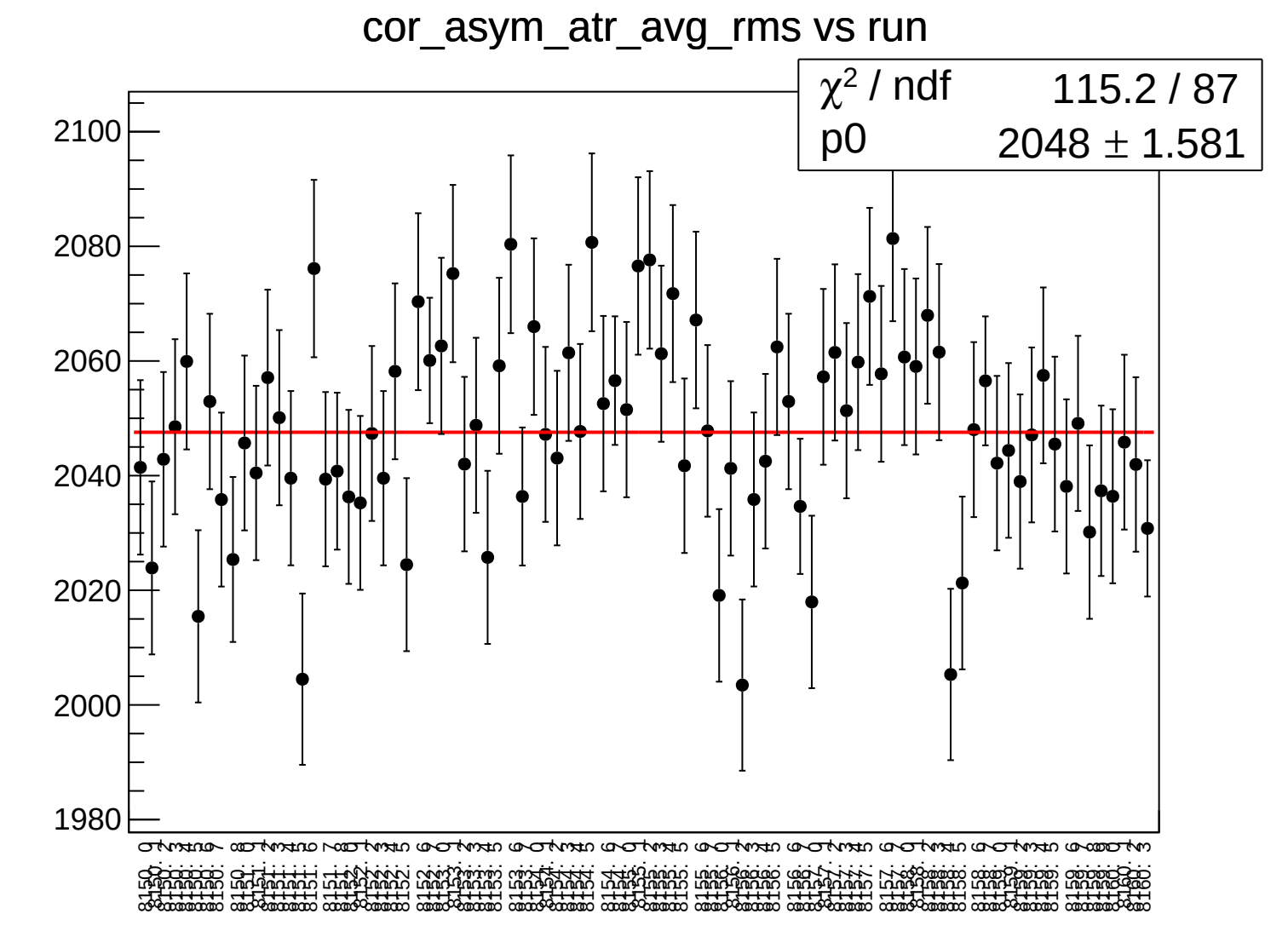

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 106 / 87
p0 −1.195e+04 ± 8208
pull
Entries 88
Mean −4973
Std Dev 0

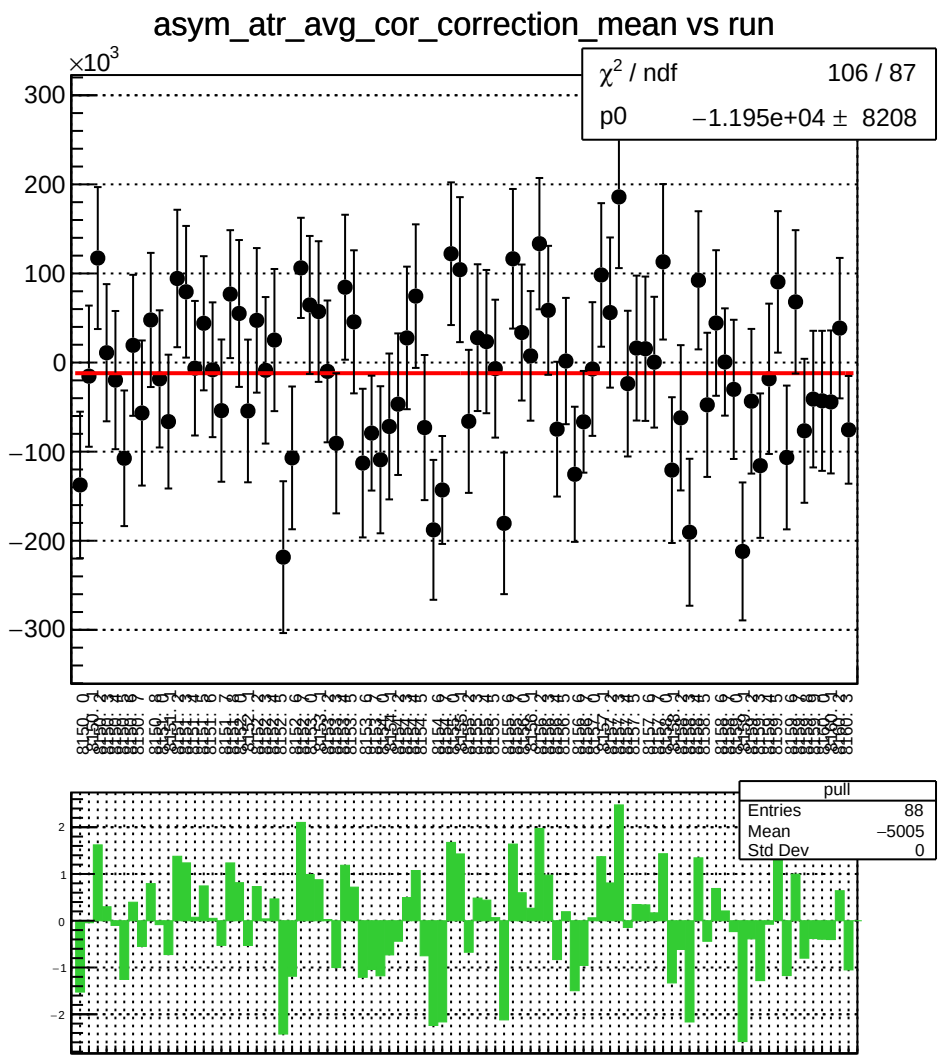

pull1D
Entries 88
Mean 0.00048
Std Dev 1.098

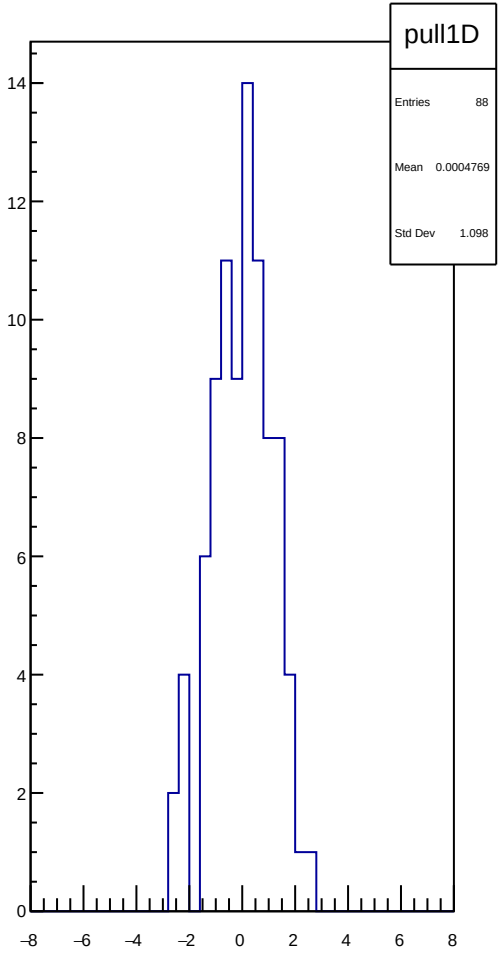

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 2382 / 87
p0 7510 ± 5.804
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

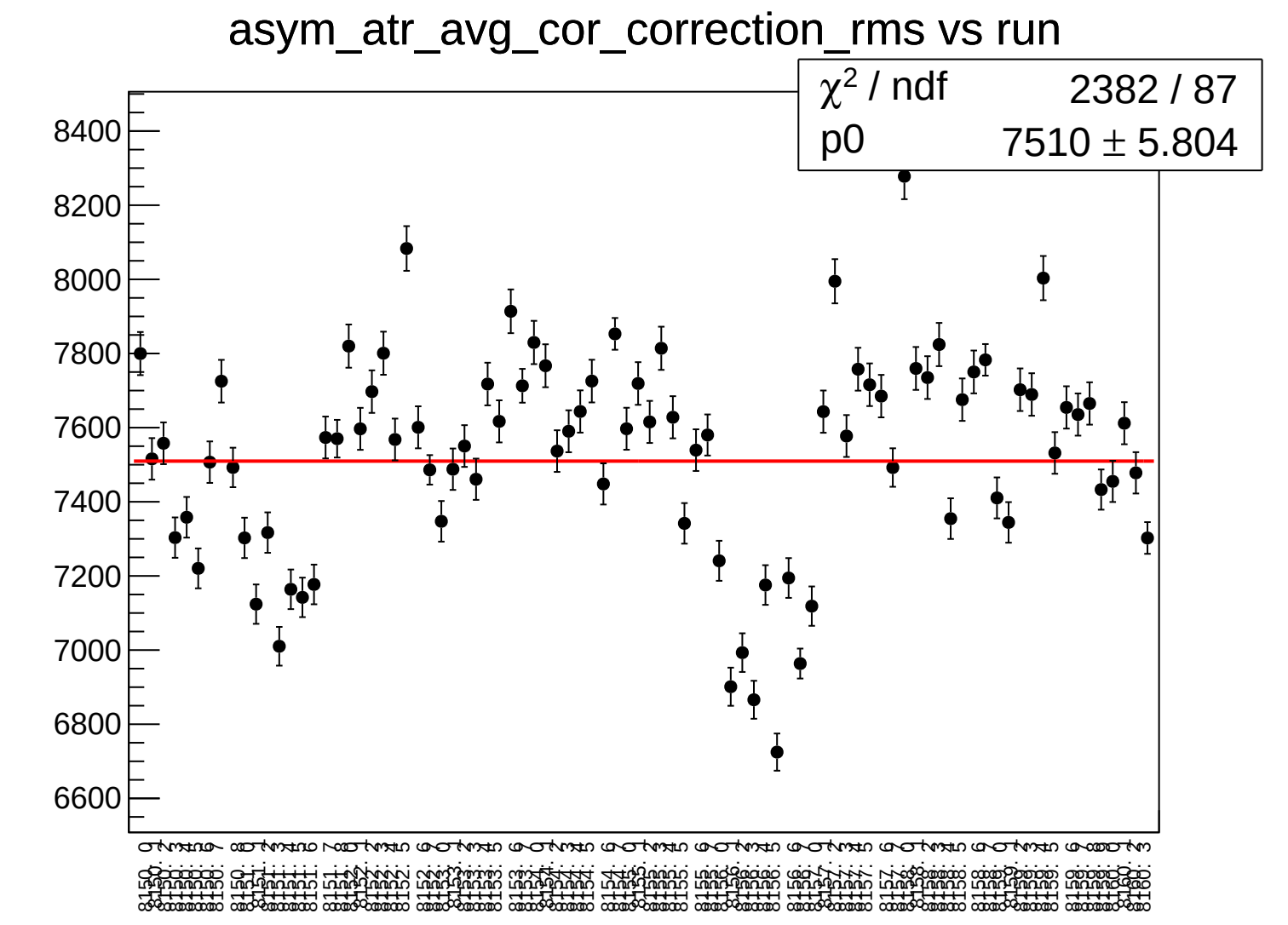

cor_asym_atr_avg_mean vs run
χ² / ndf 90.31 / 87
p0 −2354 ± 2237
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 110.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

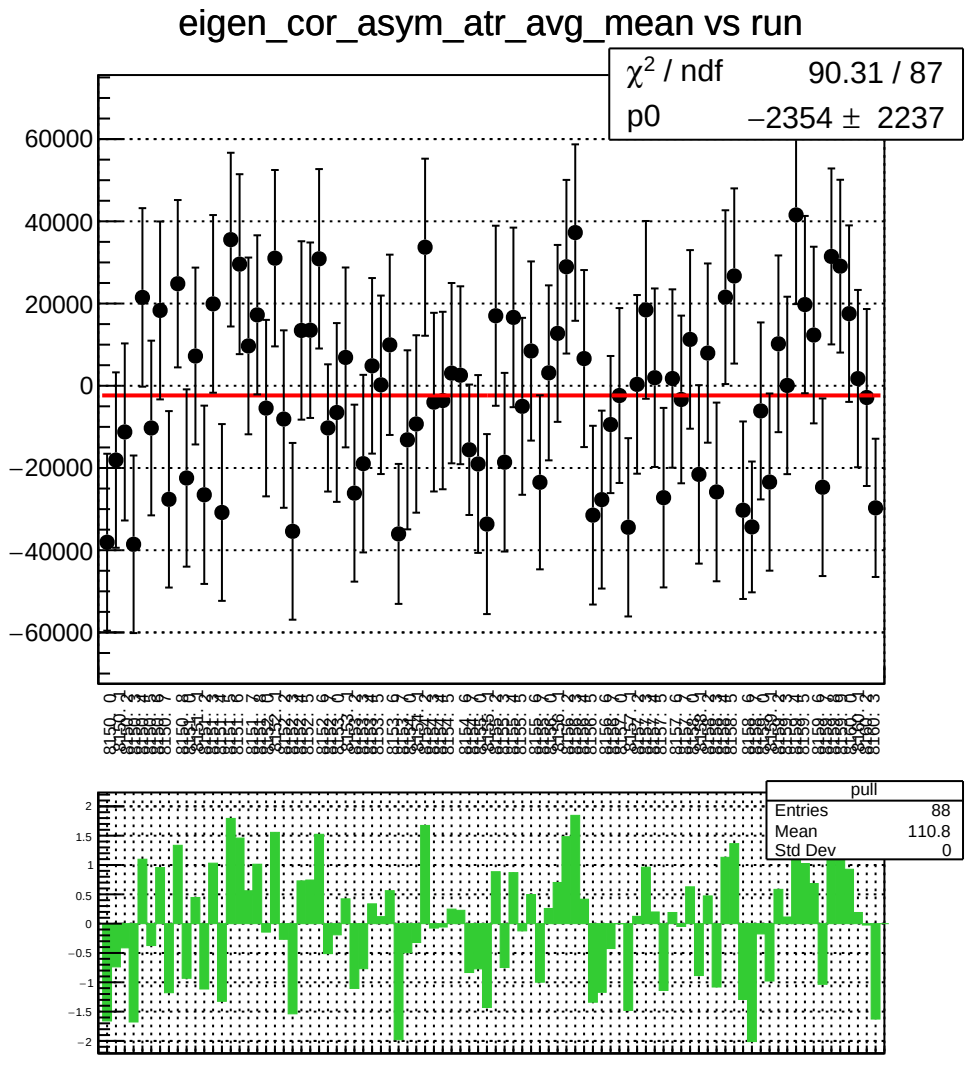

pull1D
Entries 88
Mean 0.02293
Std Dev 1.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

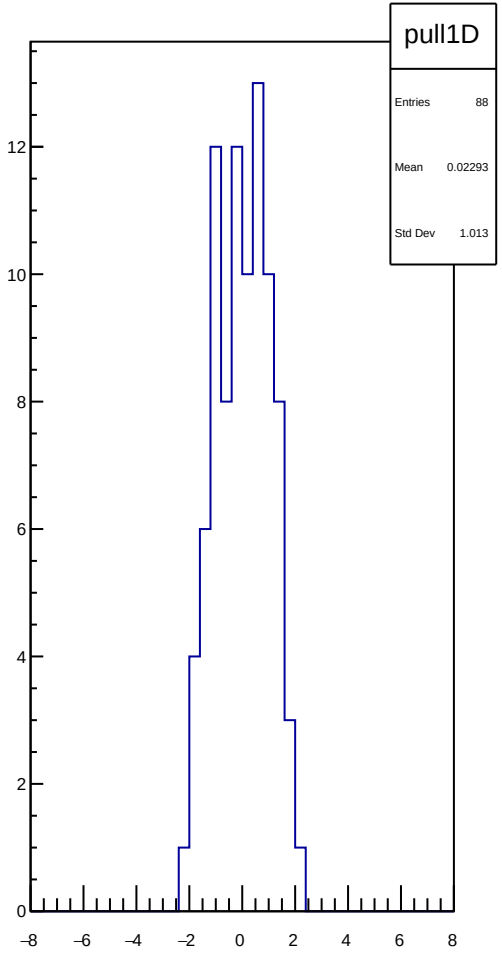

cor_asym_atr_avg_rms vs run
χ² / ndf 115.2 / 87
p0 2048 ± 1.581
2100
2080
2060
2040
2020
2000
1980

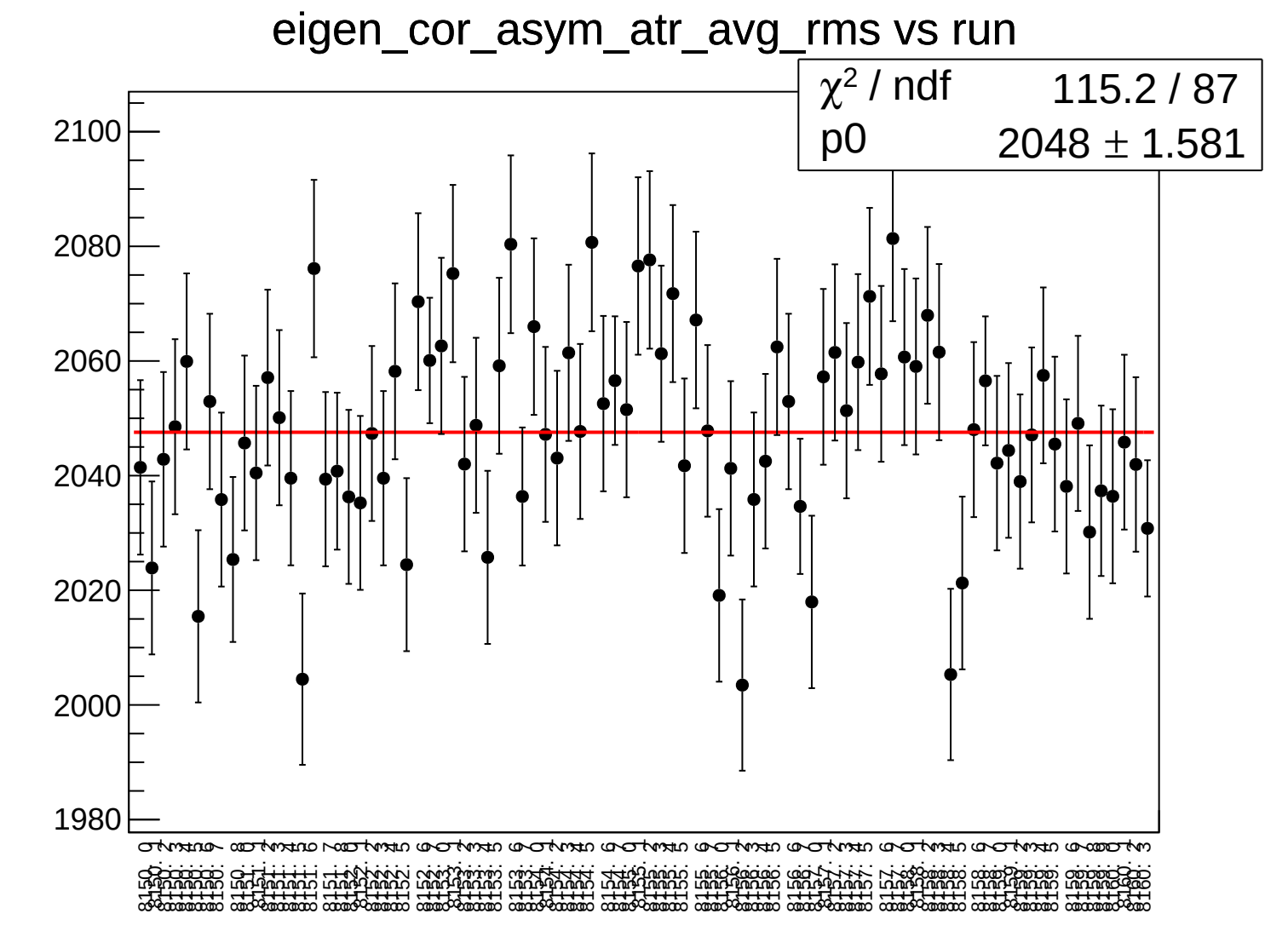

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 106 / 87
p0 −1.195e+04 ± 8208
pull
Entries 88
Mean −5005
Std Dev 0

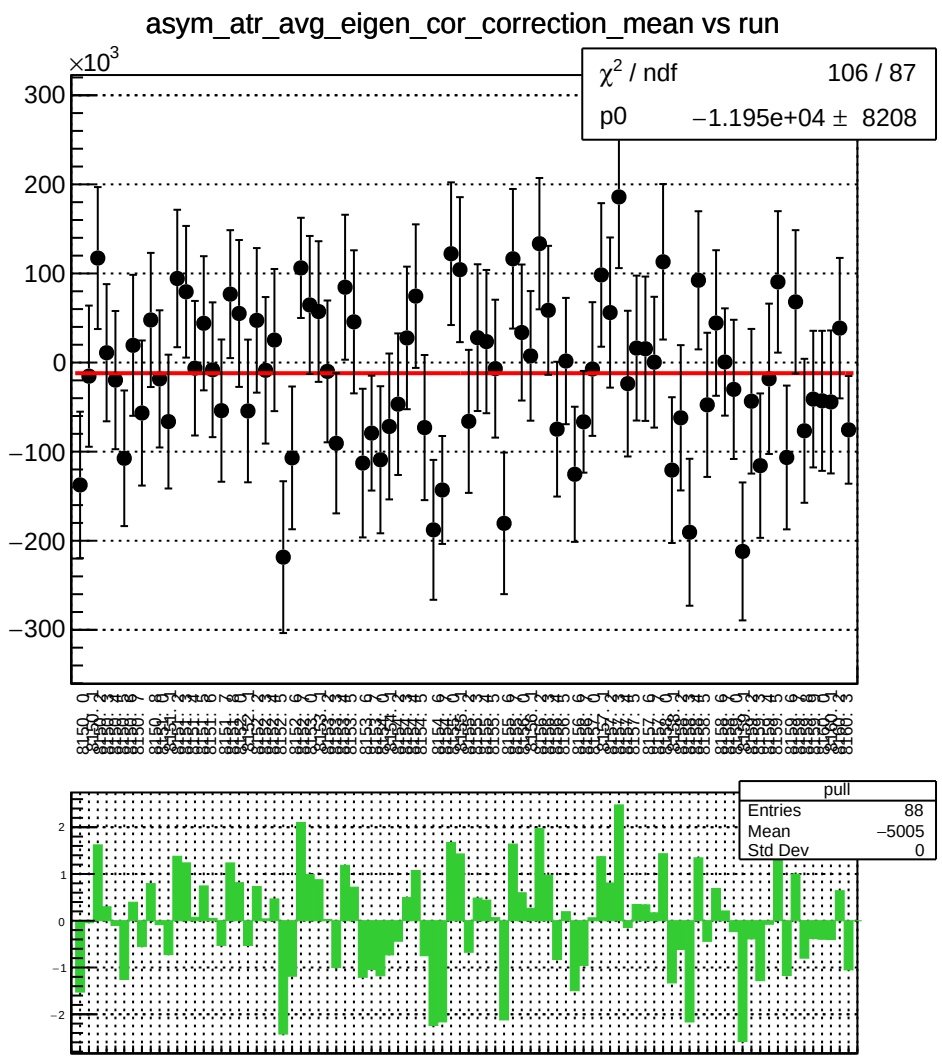

pull1D
Entries 88
Mean 0.0004769
Std Dev 1.098

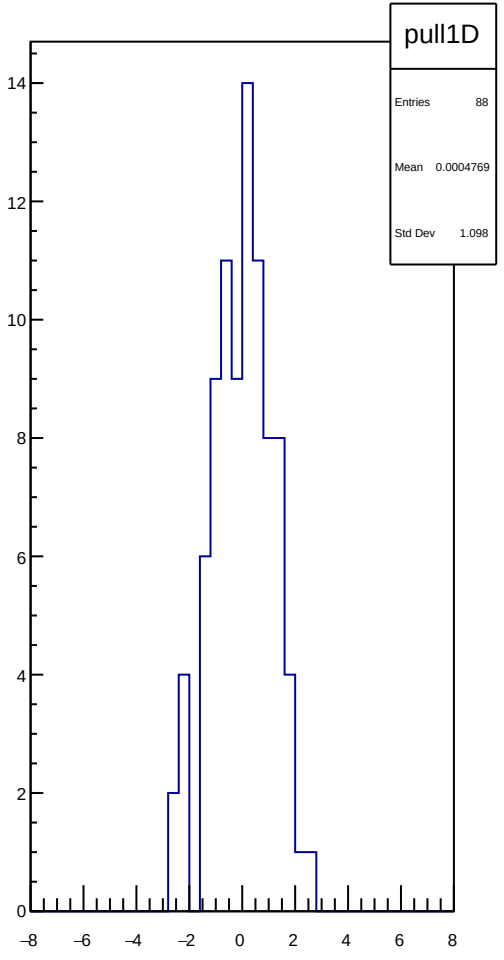

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 2382 / 87
p0 7510 ± 5.804
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

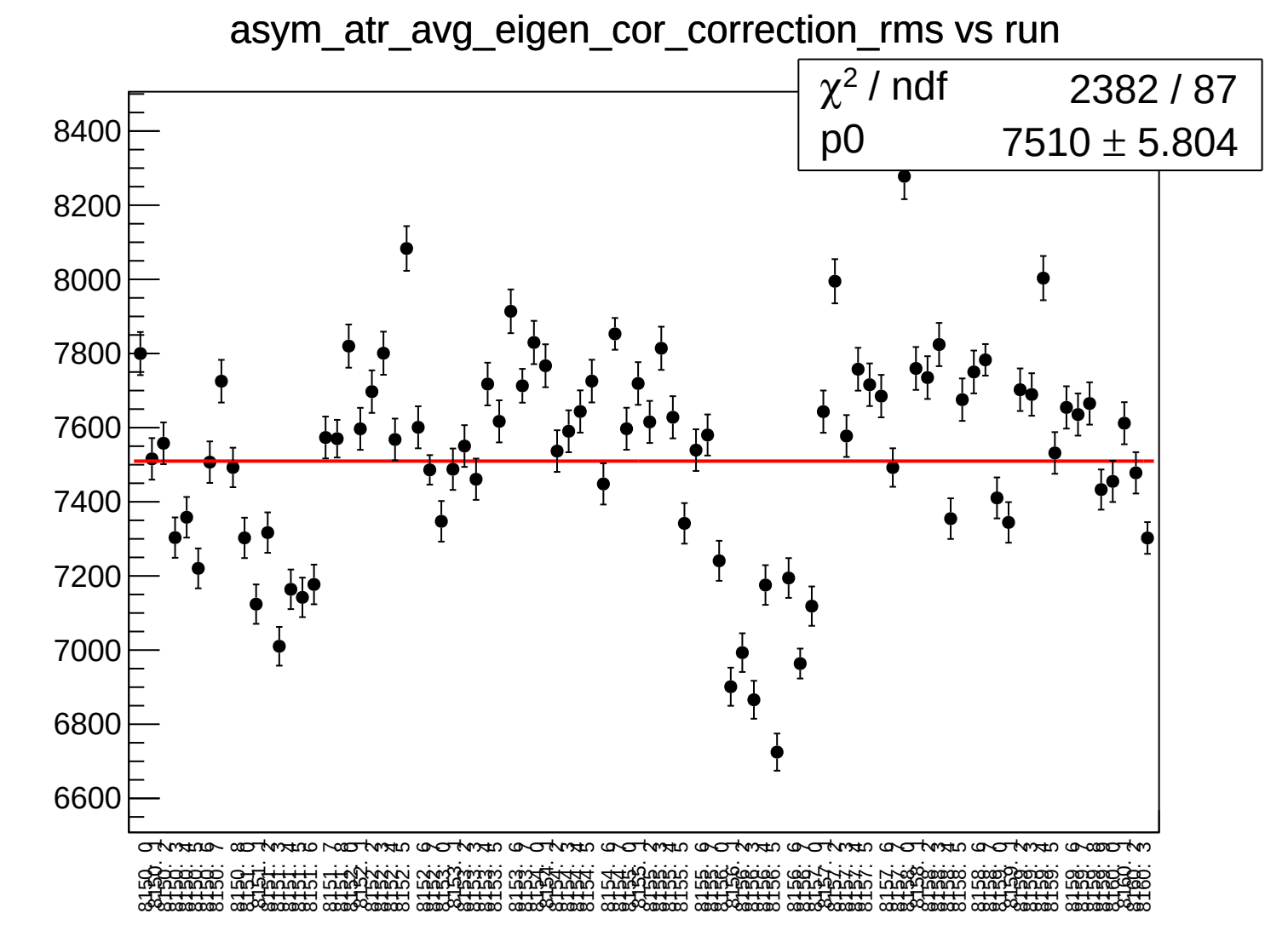

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 90.31 / 87
p0 −2354 ± 2237
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 110.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

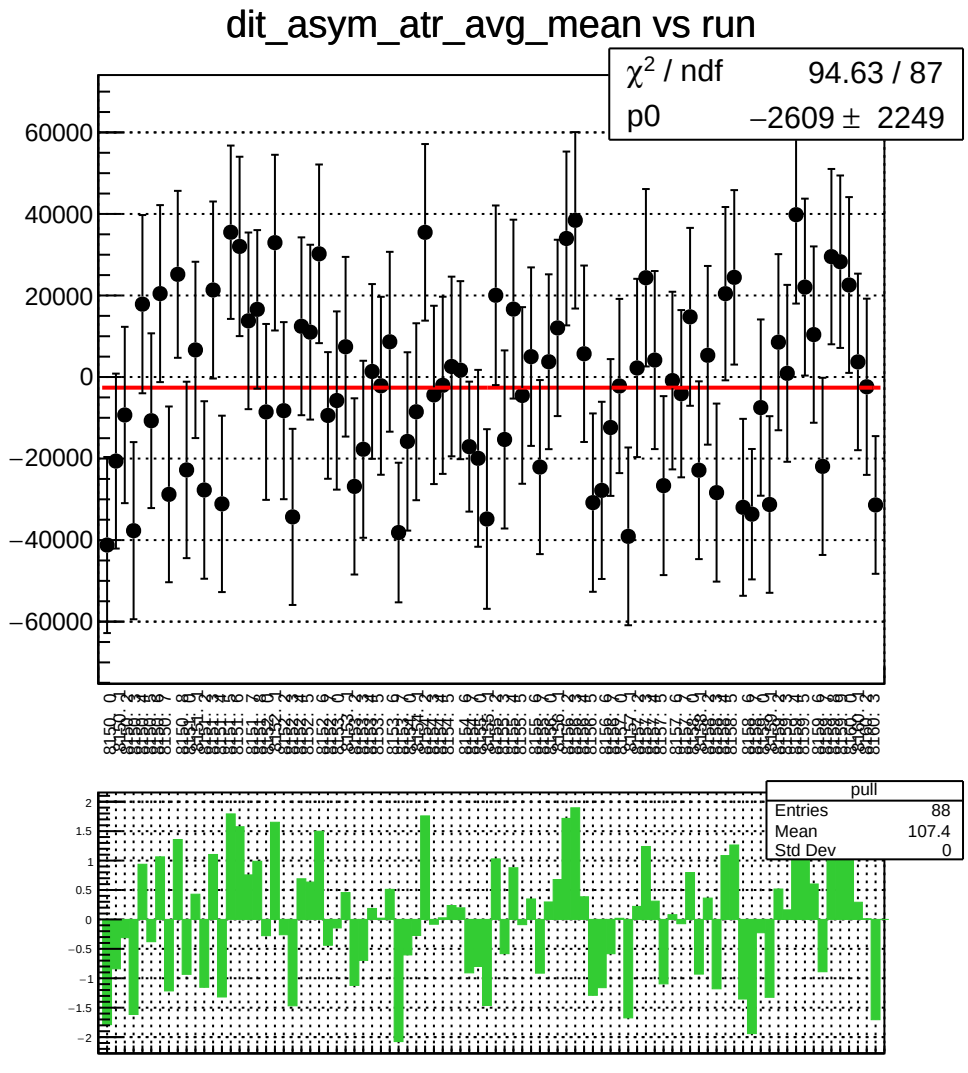

pull1D
Entries 88
Mean 0.02293
Std Dev 1.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

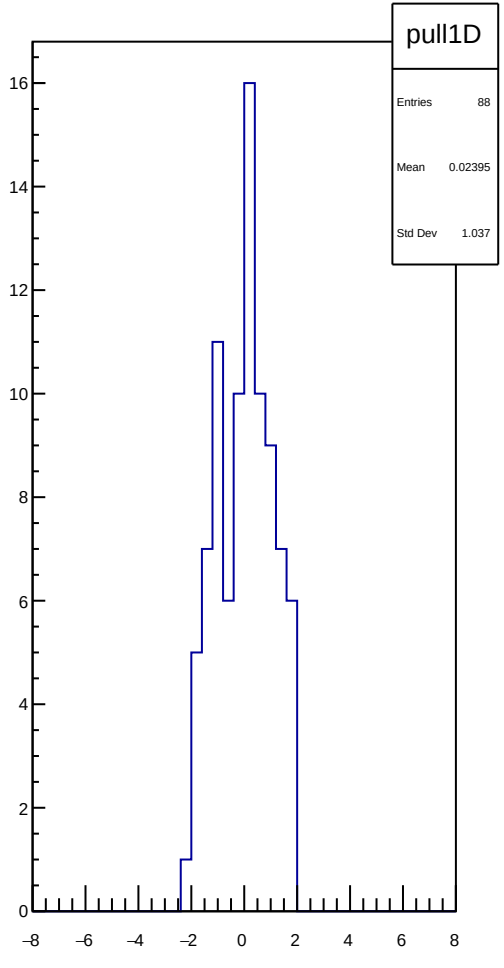

eigen_cor_asym_atr_avg_rms vs run
χ^2 / ndf 115.2 / 87
p0 2048 ± 1.581
2100
2080
2060
2040
2020
2000
1980

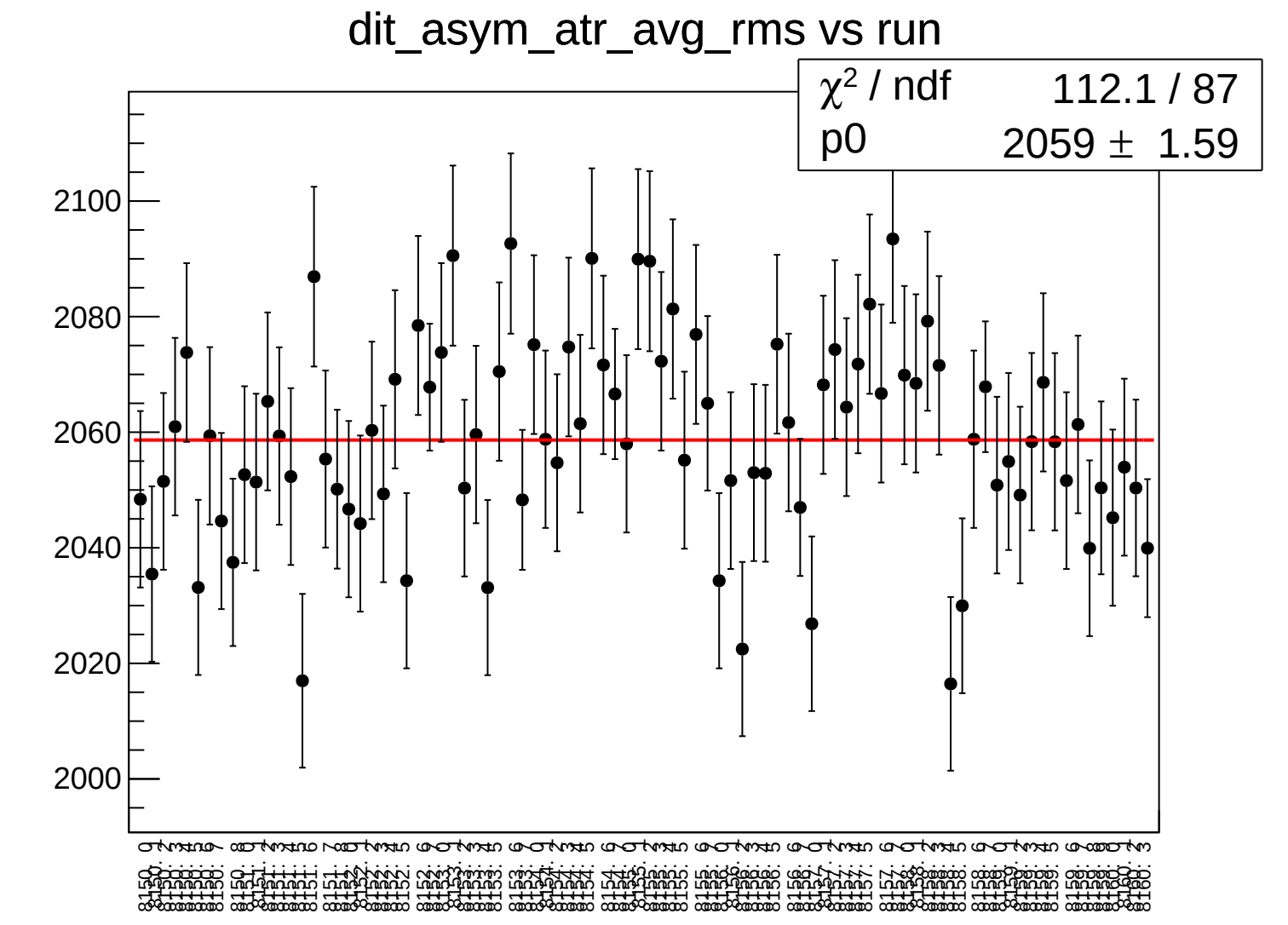

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106 / 87
p0 −1.195e+04 ± 8208
pull
Entries 88
Mean −5005
Std Dev 0

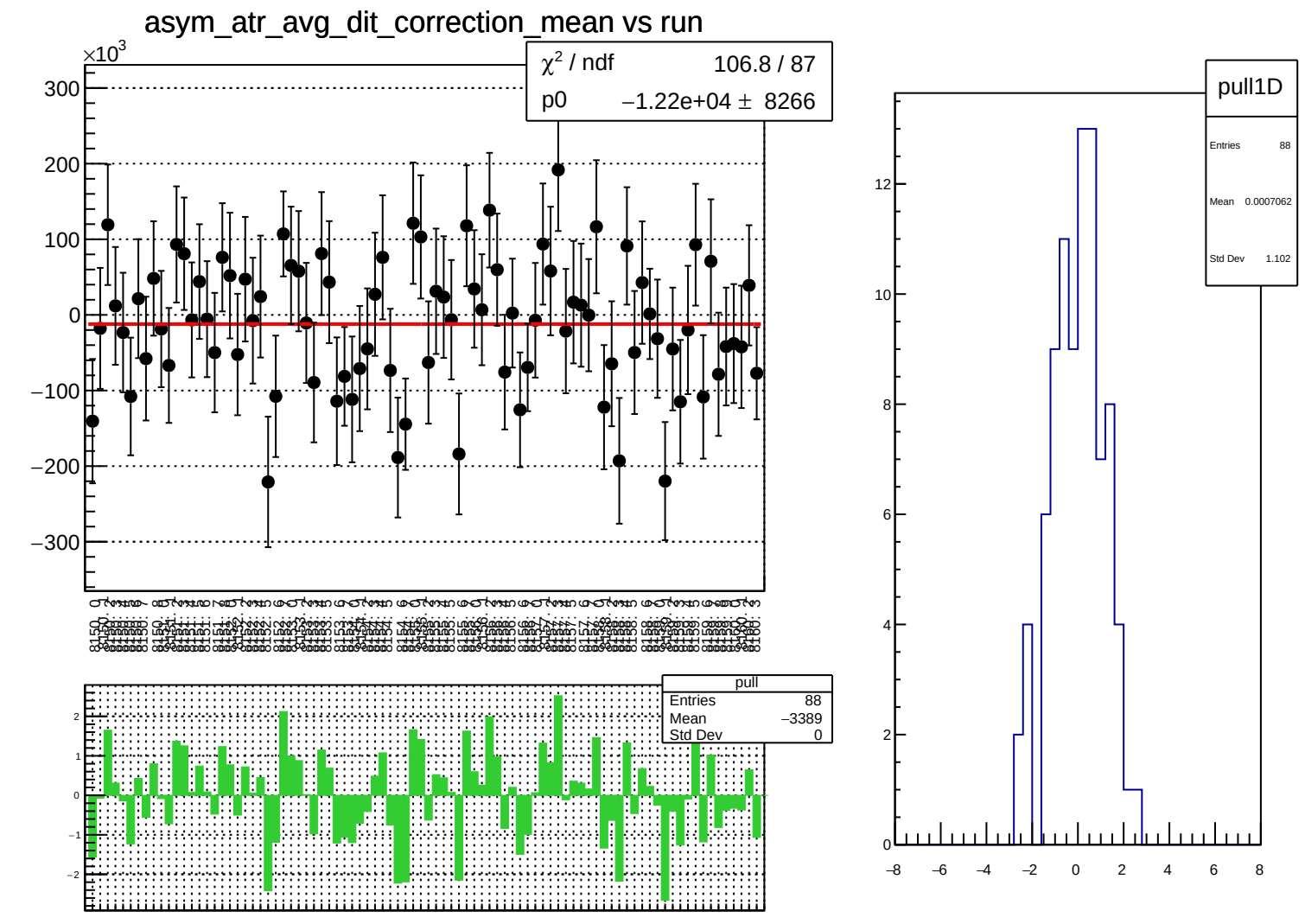

pull1D
Entries 88
Mean 0.0004769
Std Dev 1.098

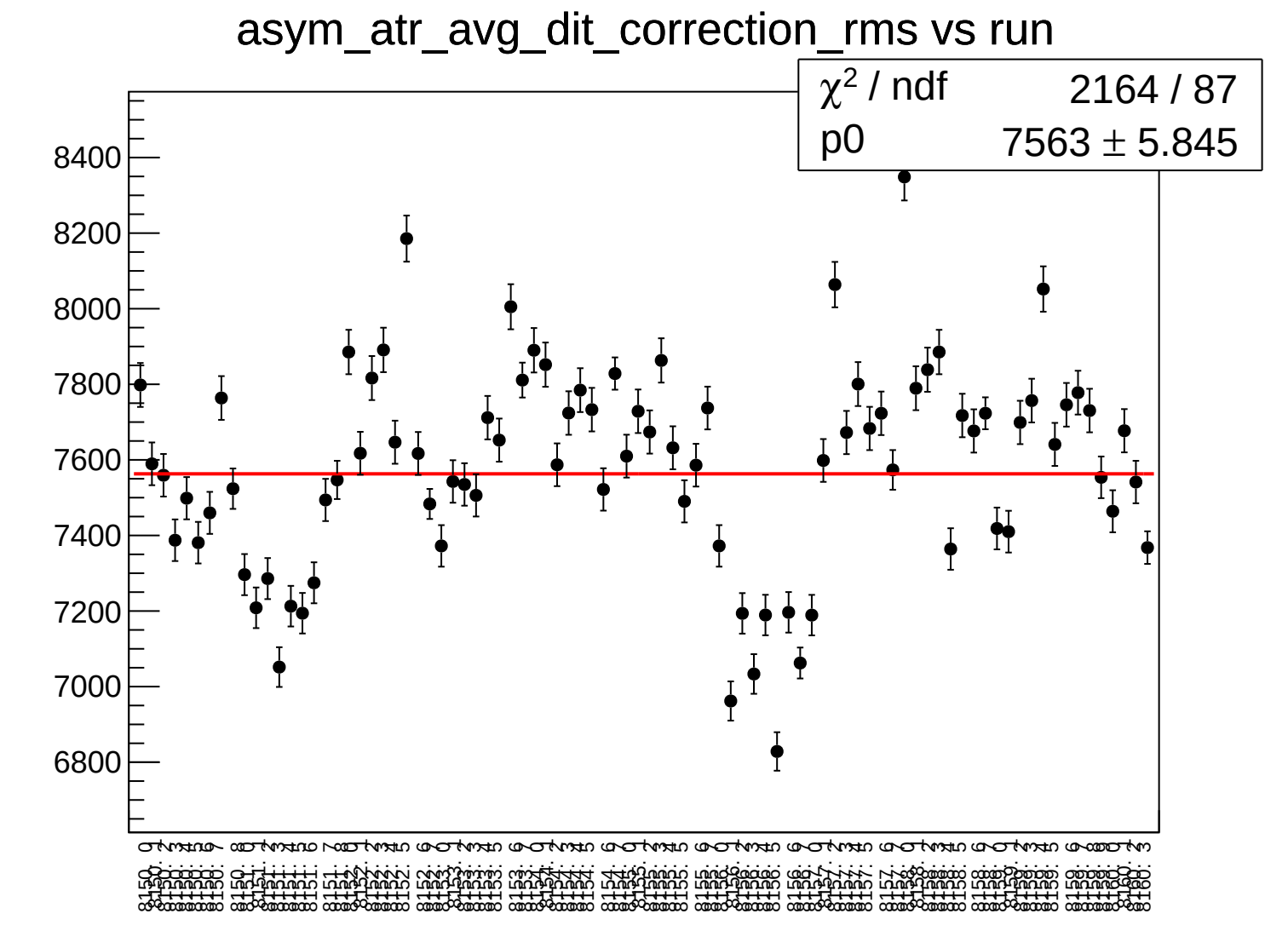

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 2382 / 87
p0 7510 ± 5.804
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

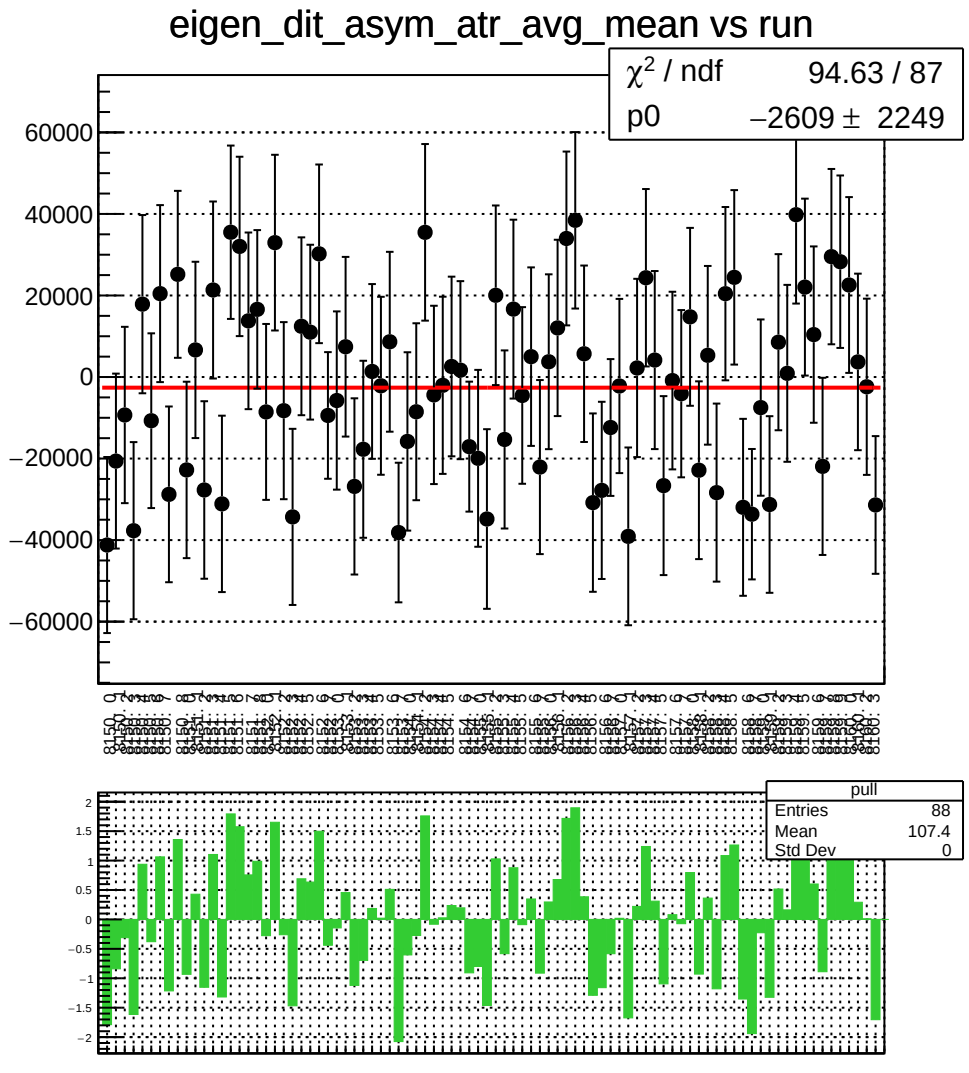

dit_asym_atr_avg_mean vs run
χ² / ndf 94.63 / 87
p0 −2609 ± 2249
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 107.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

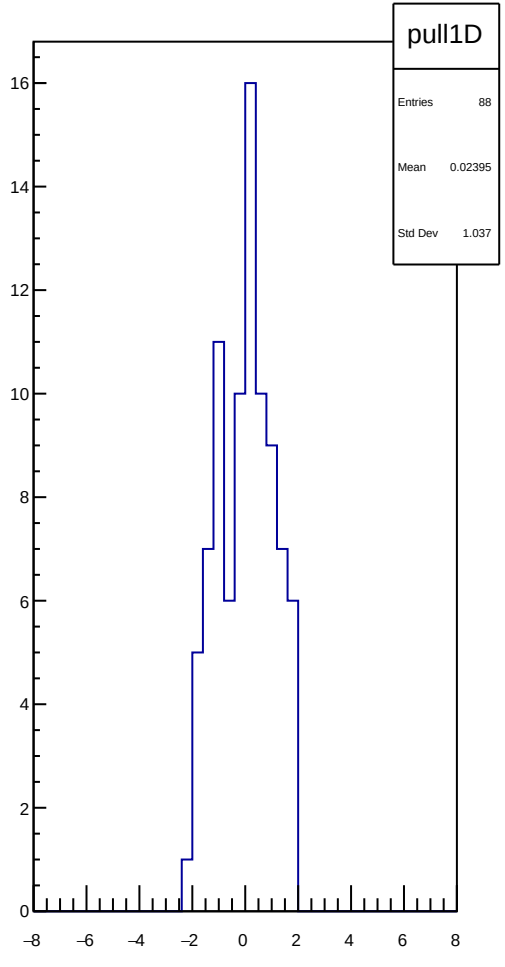

pull1D
Entries 88
Mean 0.02395
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

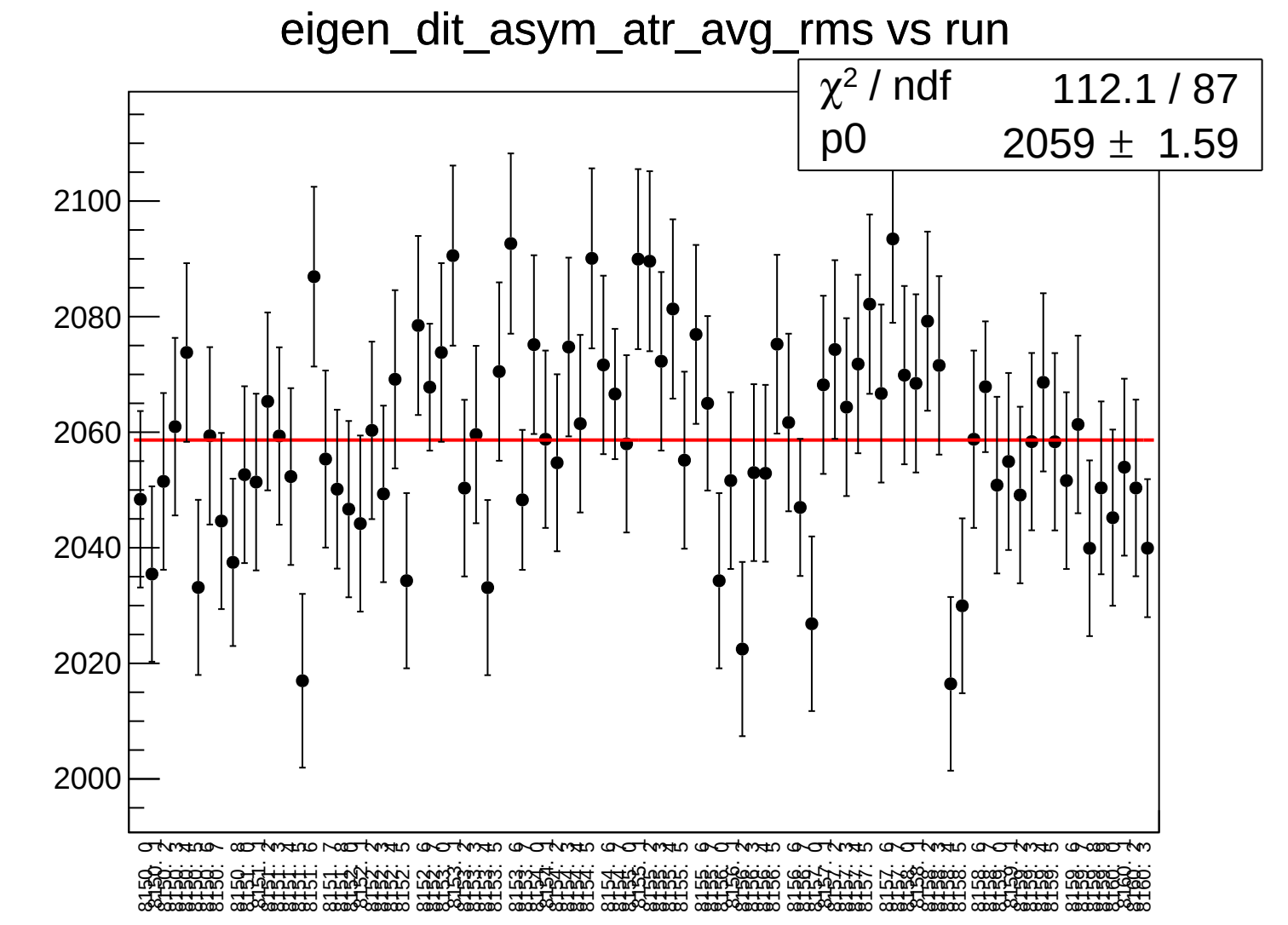

dit_asym_atr_avg_rms vs run
χ² / ndf 112.1 / 87
p0 2059 ± 1.59
2100
2080
2060
2040
2020
2000

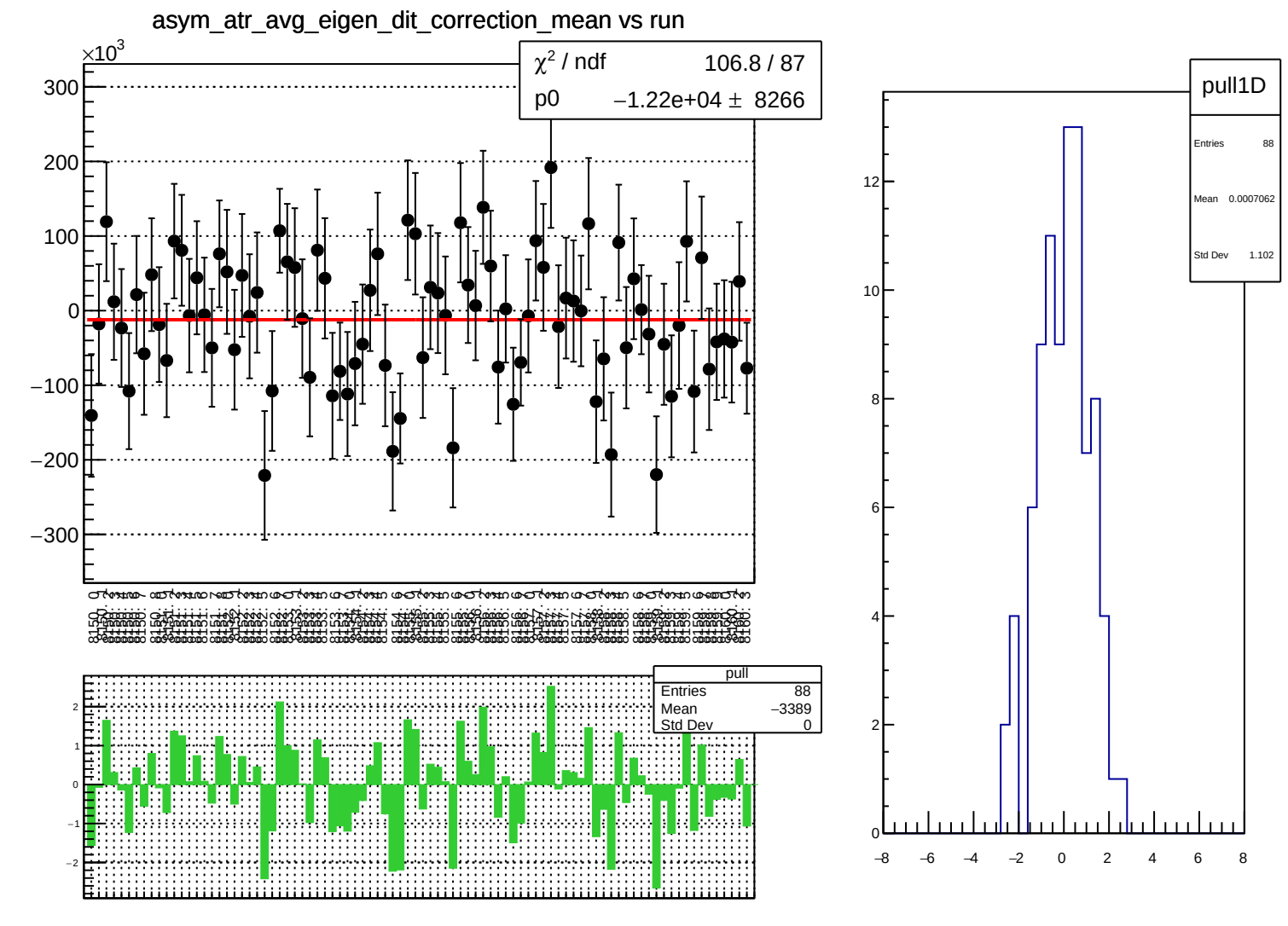

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 106.8 / 87
p0 −1.22e+04 ± 8266
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −3389
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0007062
Std Dev 1.102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

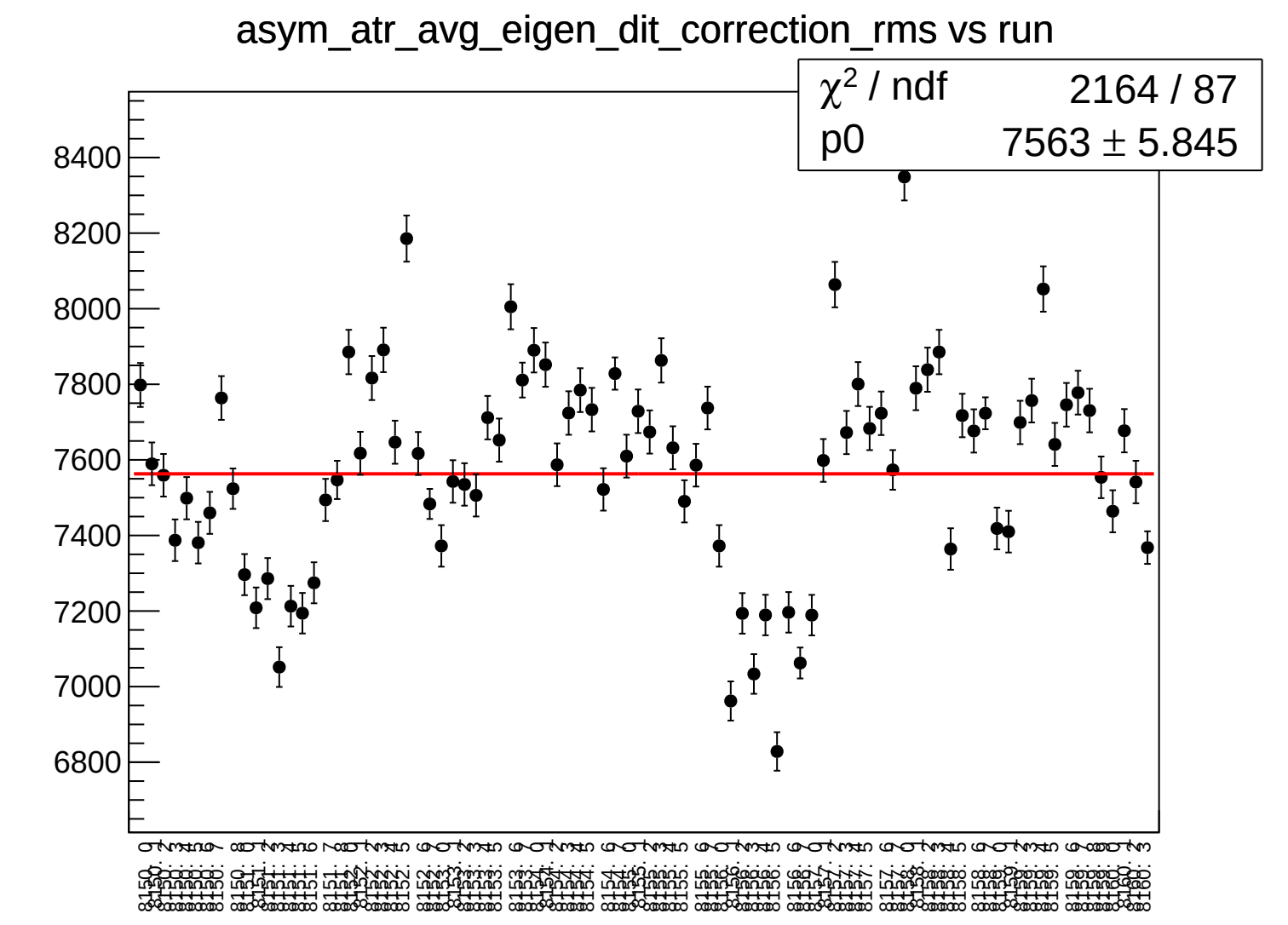

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 2164 / 87
p0 7563 ± 5.845
8400
8200
8000
7800
7600
7400
7200
7000
6800

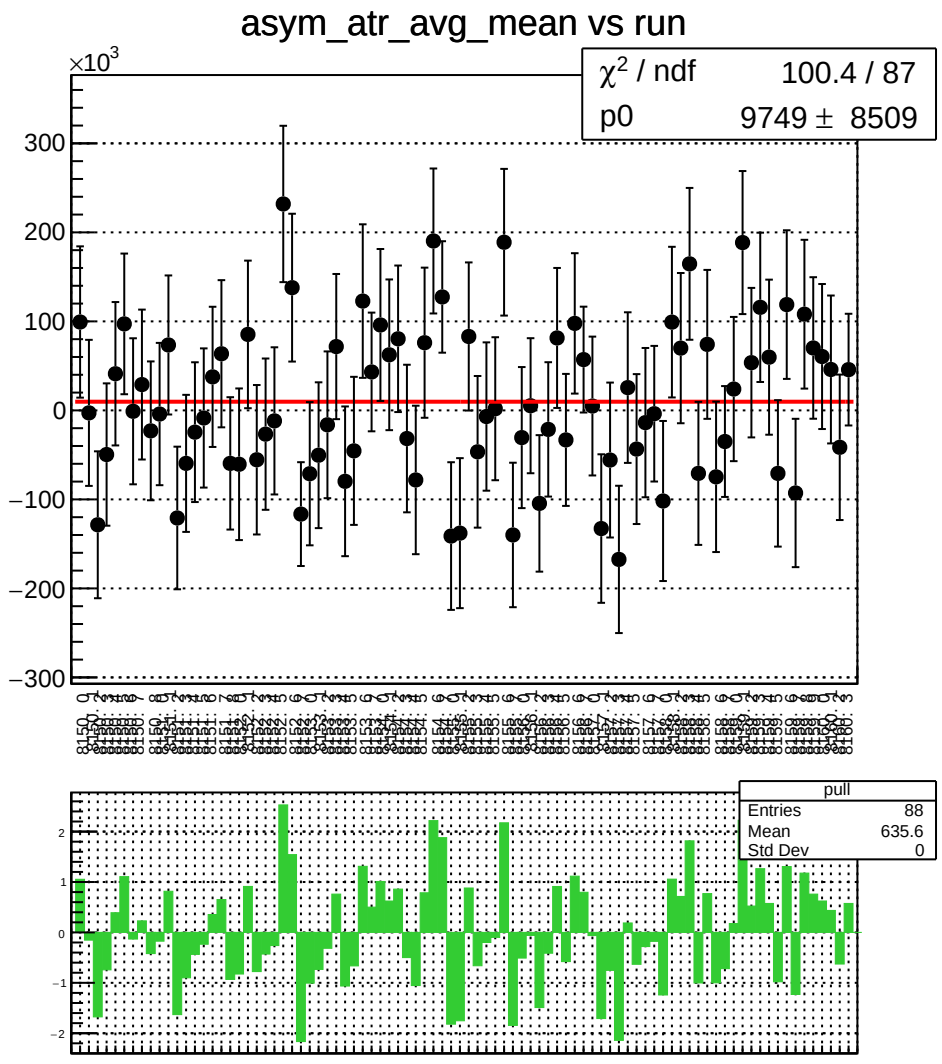

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 94.63 / 87
p0 −2609 ± 2249
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 107.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

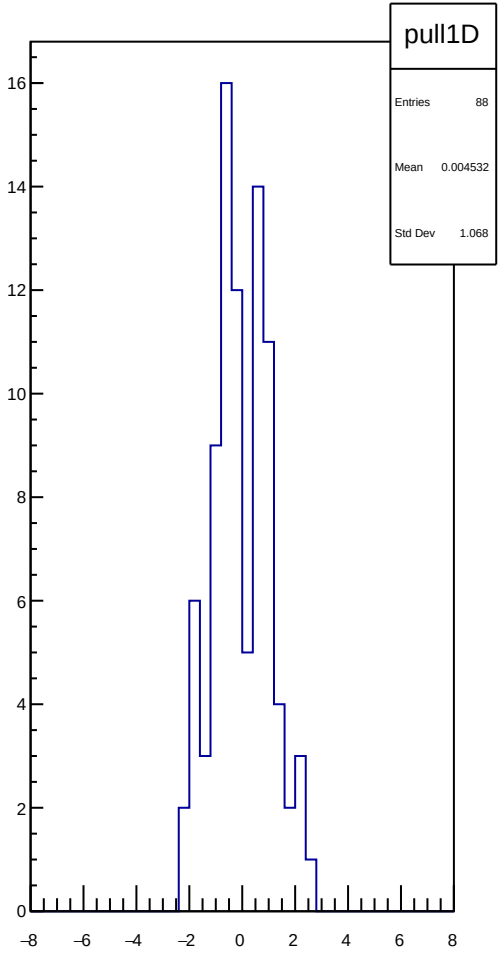

pull1D
Entries 88
Mean 0.02395
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

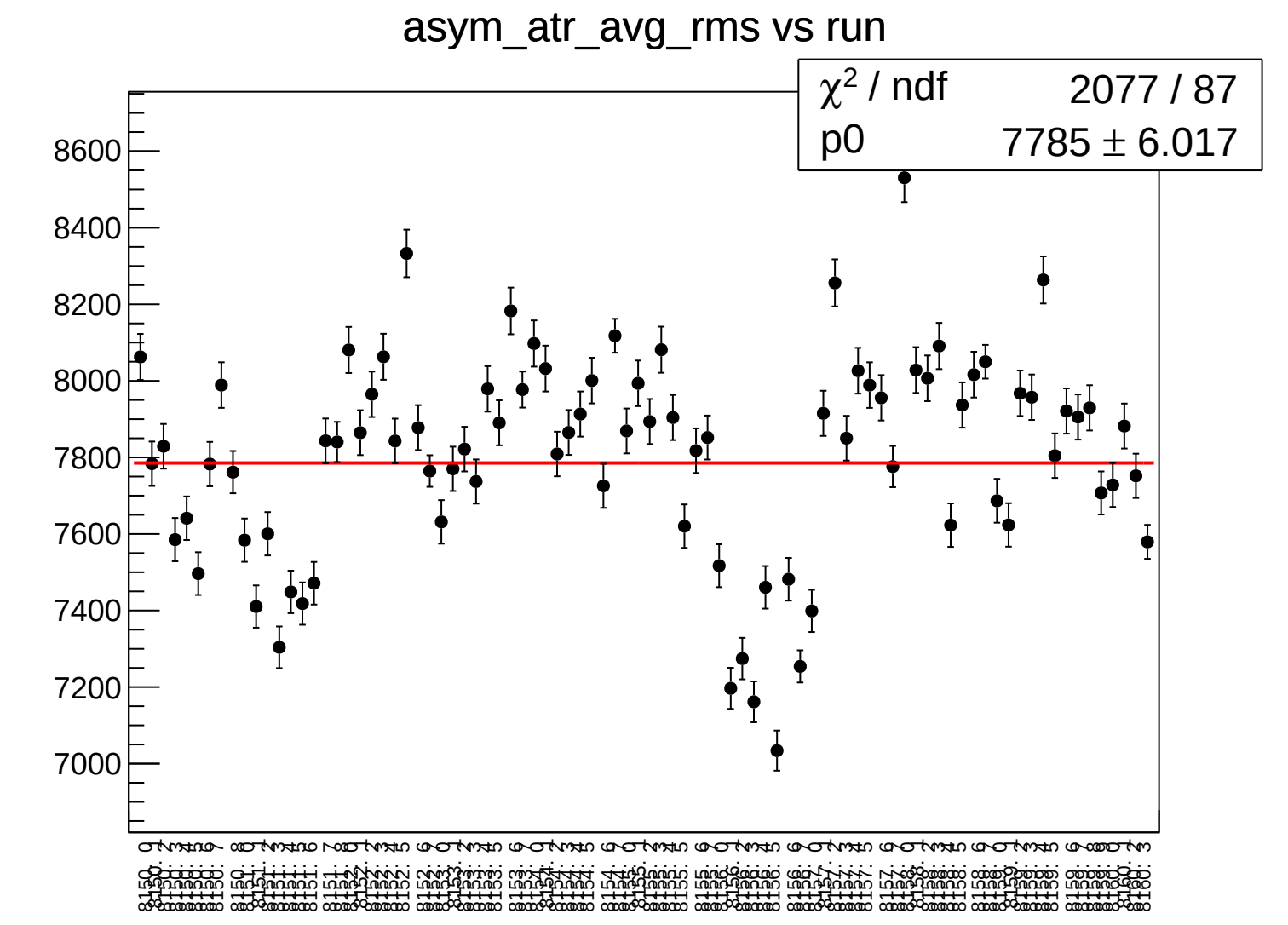

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 112.1 / 87
p0 2059 ± 1.59
2100
2080
2060
2040
2020
2000

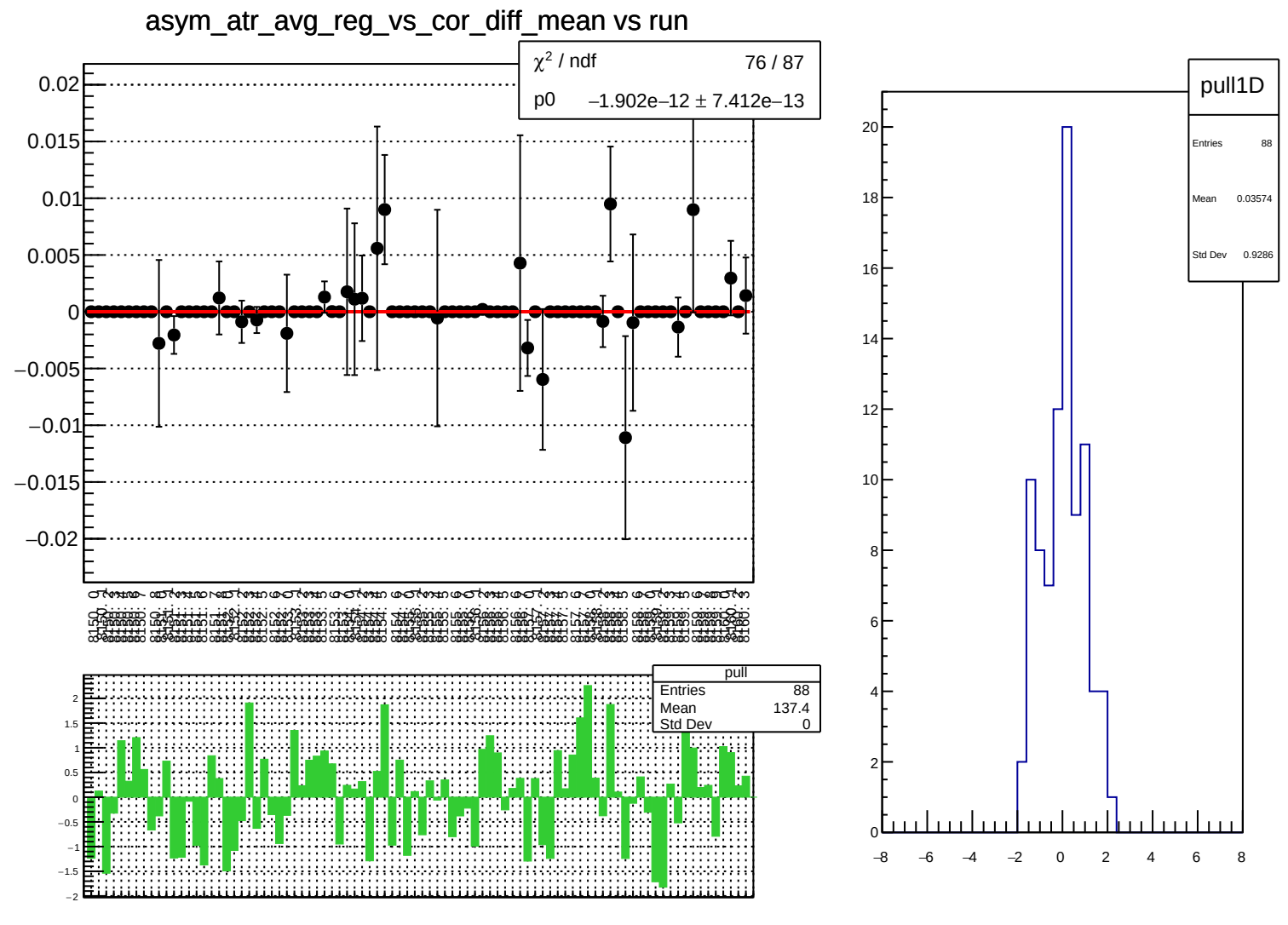

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 106.8 / 87
p0 −1.22e+04 ± 8266
pull
Entries 88
Mean −3389
Std Dev 0
pull1D
Entries 88
Mean 0.0007062
Std Dev 1.102

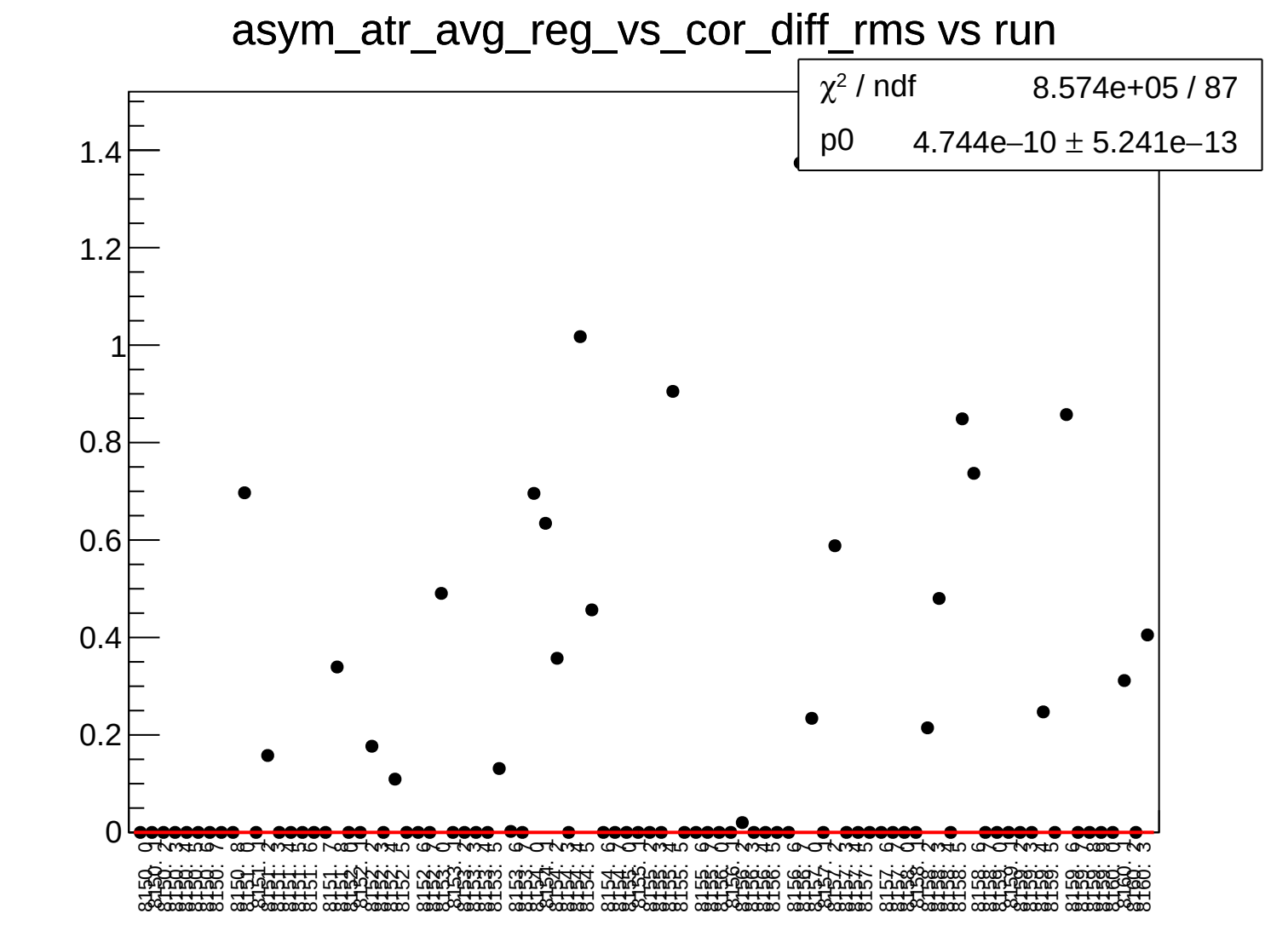

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 2164 / 87
p0 7563 ± 5.845
8400
8200
8000
7800
7600
7400
7200
7000
6800

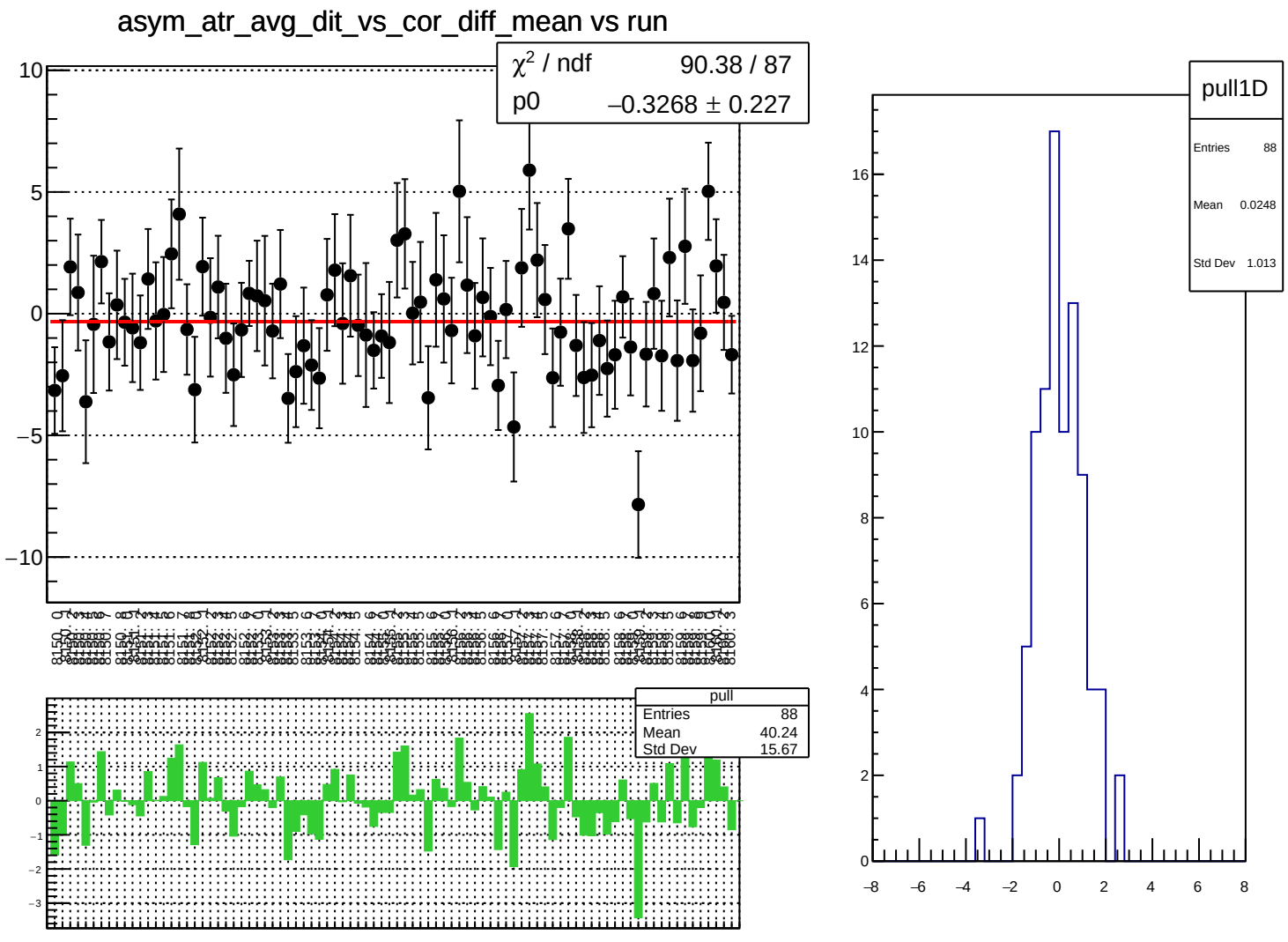

asym_atr_avg_mean vs run
×10^3
χ² / ndf 100.4 / 87
p0 9749 ± 8509
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 635.6
Std Dev 0
2
1
0
−1
−2

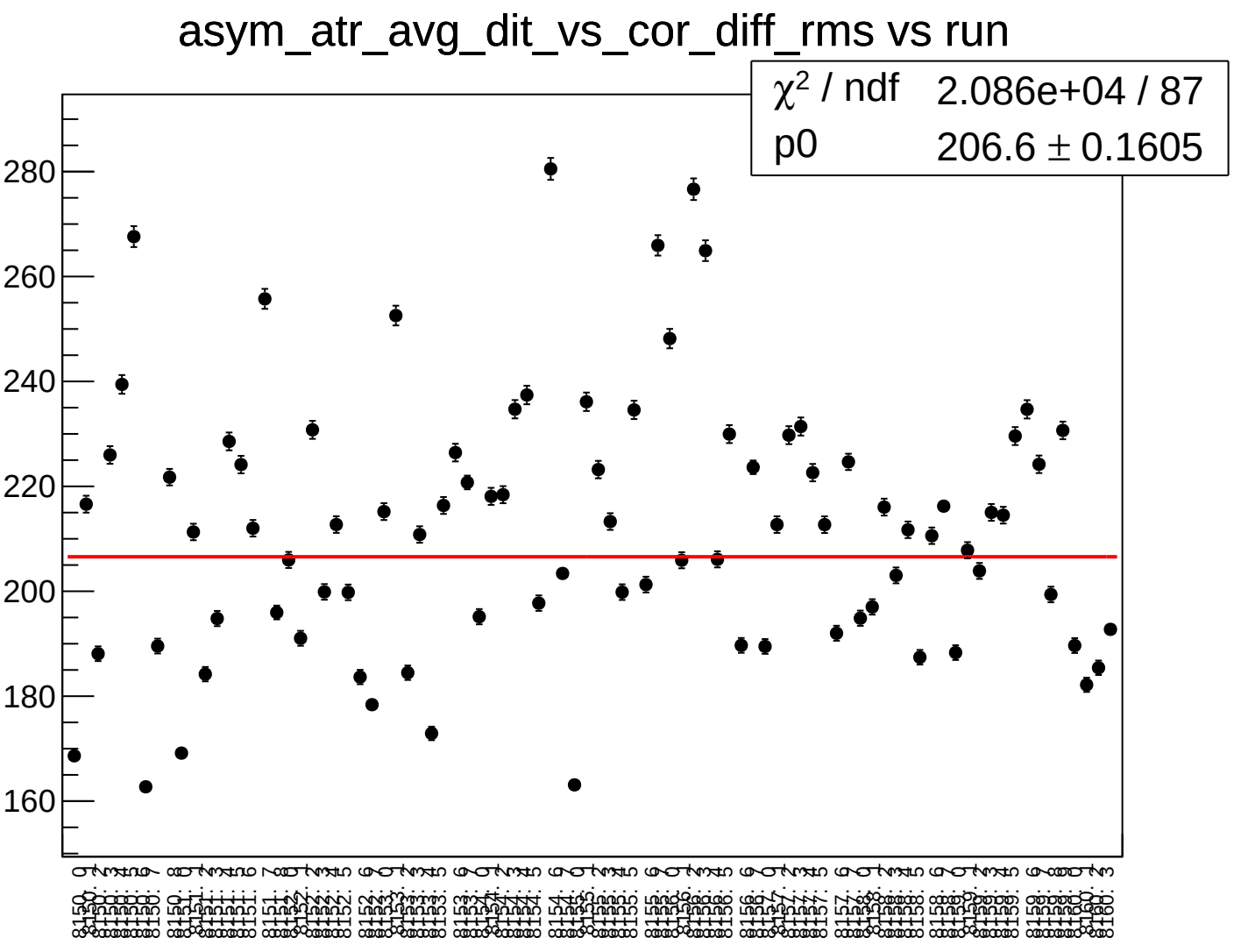

pull1D
Entries 88
Mean 0.004532
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

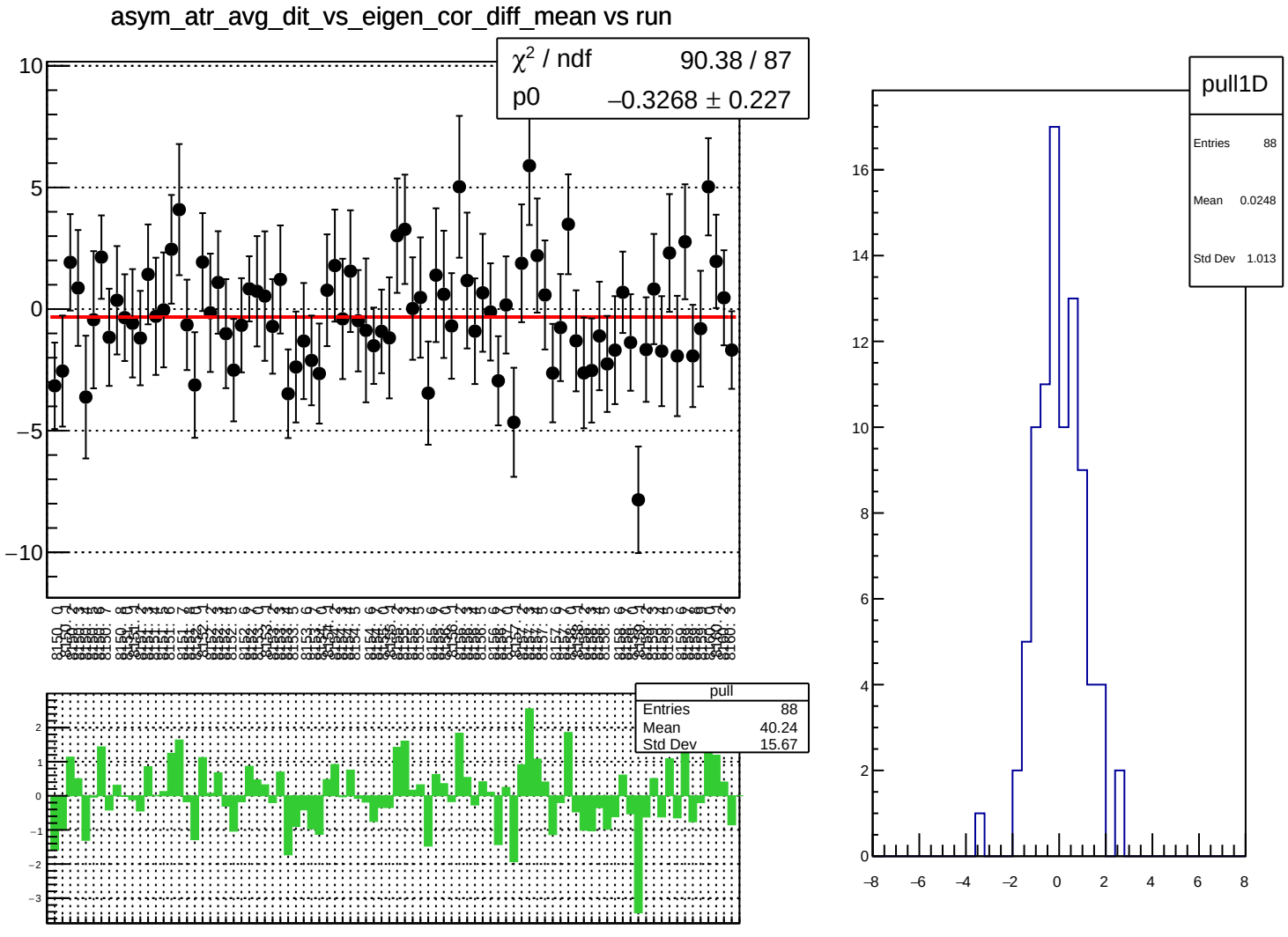

asym_atr_avg_rms vs run
χ^2 / ndf 2077 / 87
p0 7785 ± 6.017
8600
8400
8200
8000
7800
7600
7400
7200
7000

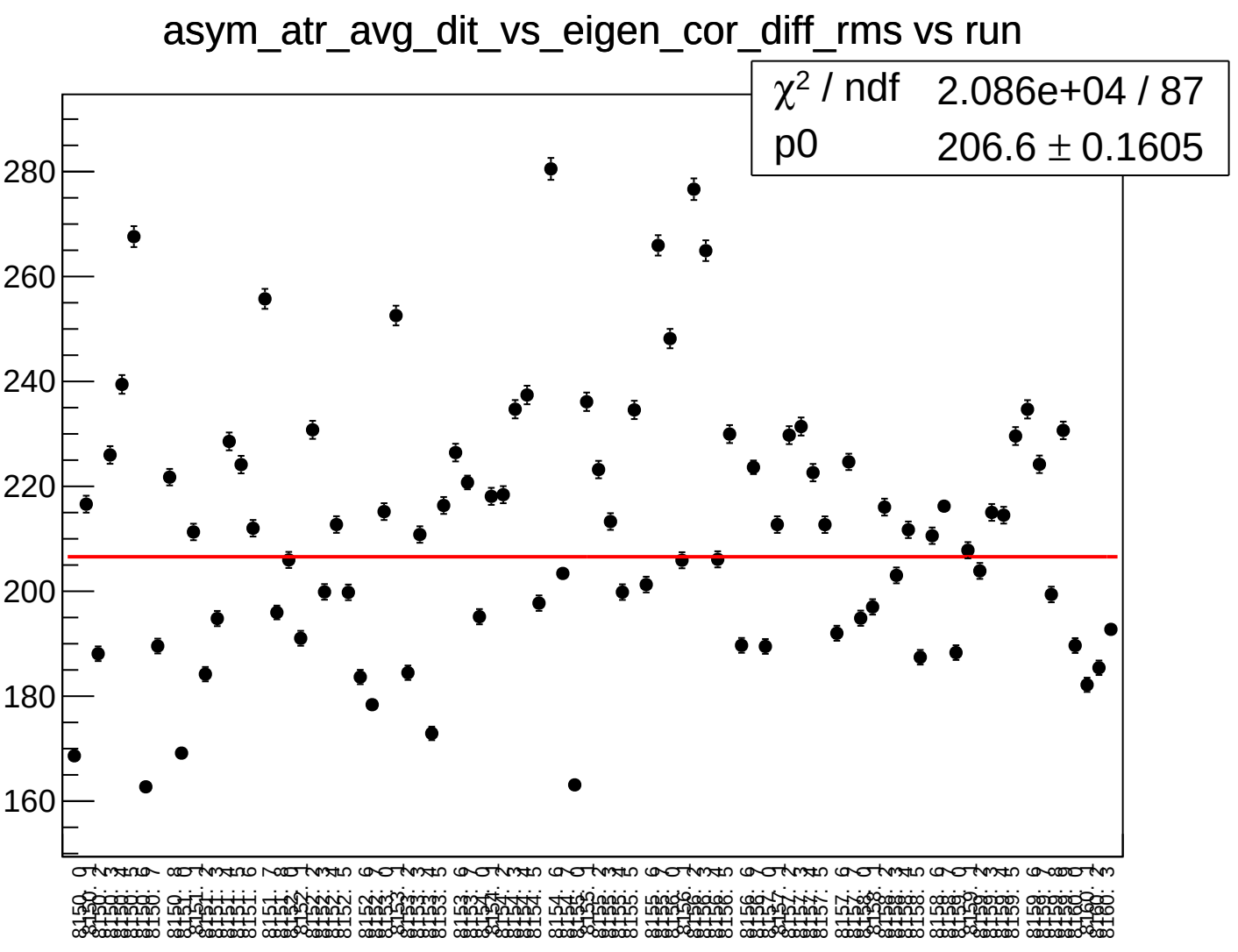

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76 / 87
p0 −1.902e−12 ± 7.412e−13
pull
Entries 88
Mean 137.4
Std Dev 0
pull1D
Entries 88
Mean 0.03574
Std Dev 0.9286

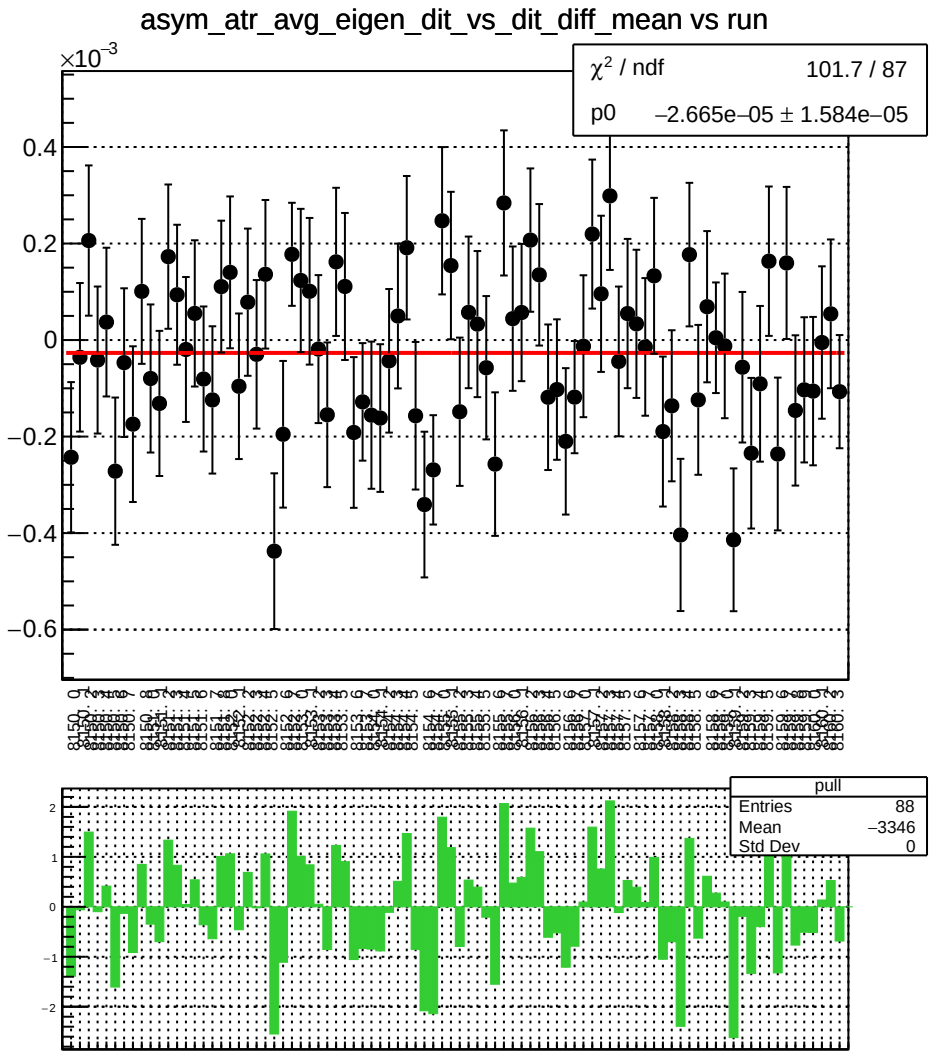

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.574e+05 / 87
p0 4.744e−10 ± 5.241e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

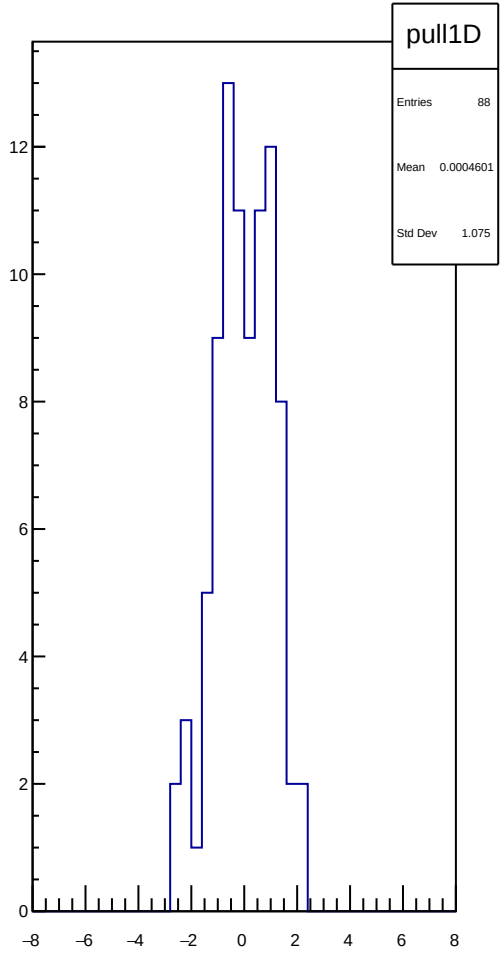

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.38 / 87
p0 −0.3268 ± 0.227
pull
Entries 88
Mean 40.24
Std Dev 15.67
pull1D
Entries 88
Mean 0.0248
Std Dev 1.013

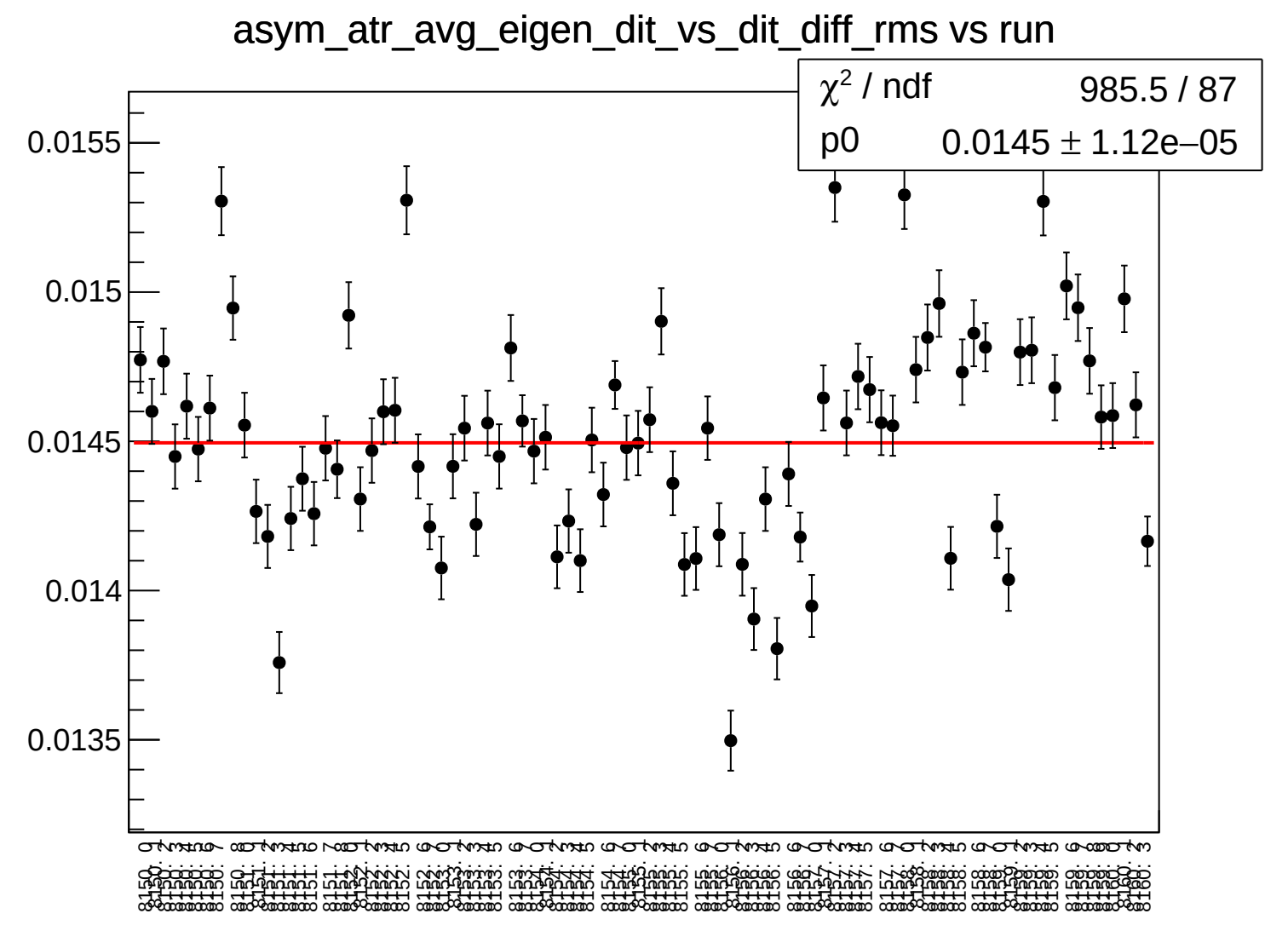

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.086e+04 / 87
p0 206.6 ± 0.1605
280
260
240
220
200
180
160

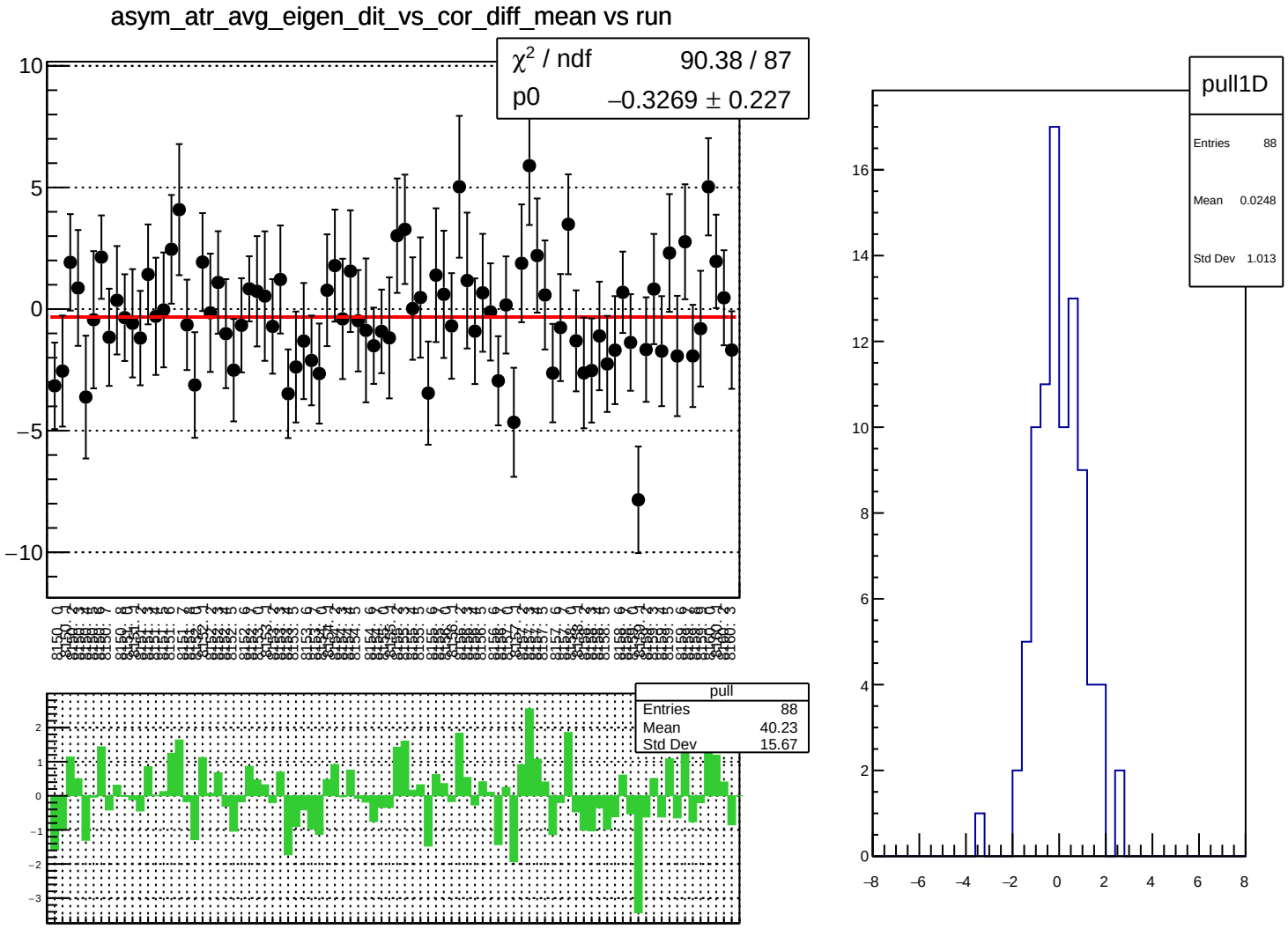

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.38 / 87
p0 −0.3268 ± 0.227
pull
Entries 88
Mean 40.24
Std Dev 15.67
pull1D
Entries 88
Mean 0.0248
Std Dev 1.013

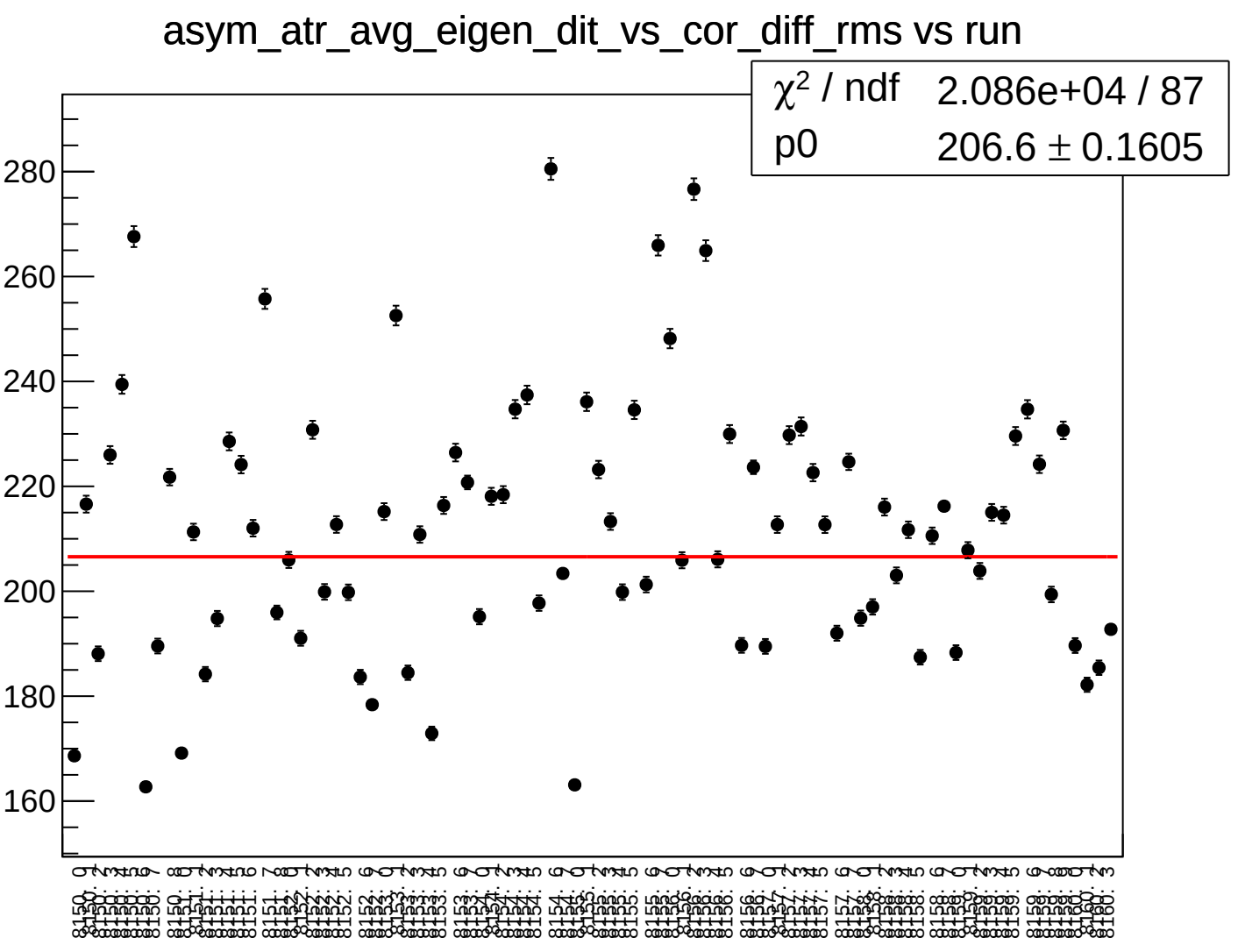

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.086e+04 / 87
p0 206.6 ± 0.1605
280
260
240
220
200
180
160

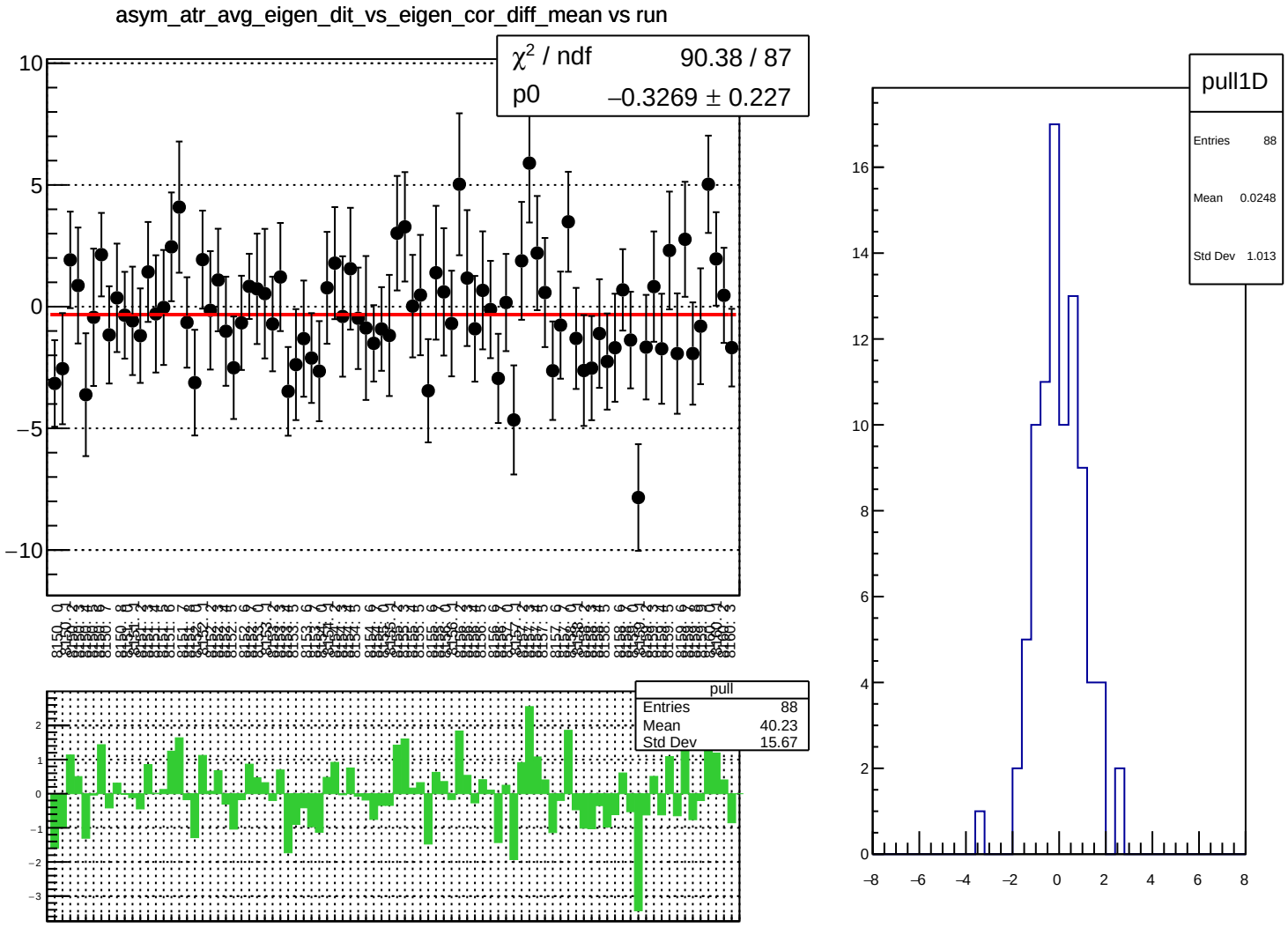

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.7 / 87
p0 −2.665e−05 ± 1.584e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 88
Mean −3346
Std Dev 0
2
1
0
−1
−2

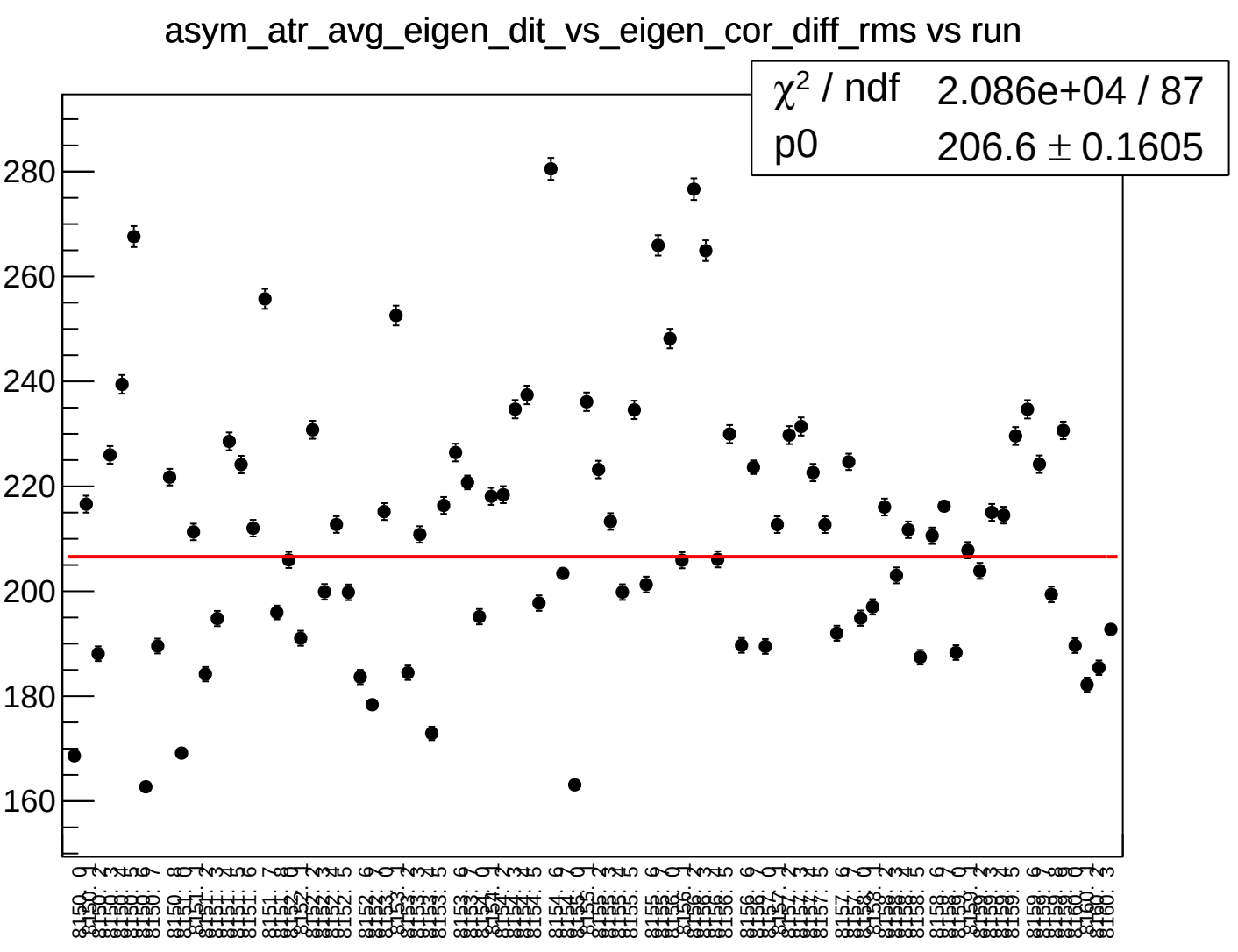

pull1D
Entries 88
Mean 0.0004601
Std Dev 1.075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

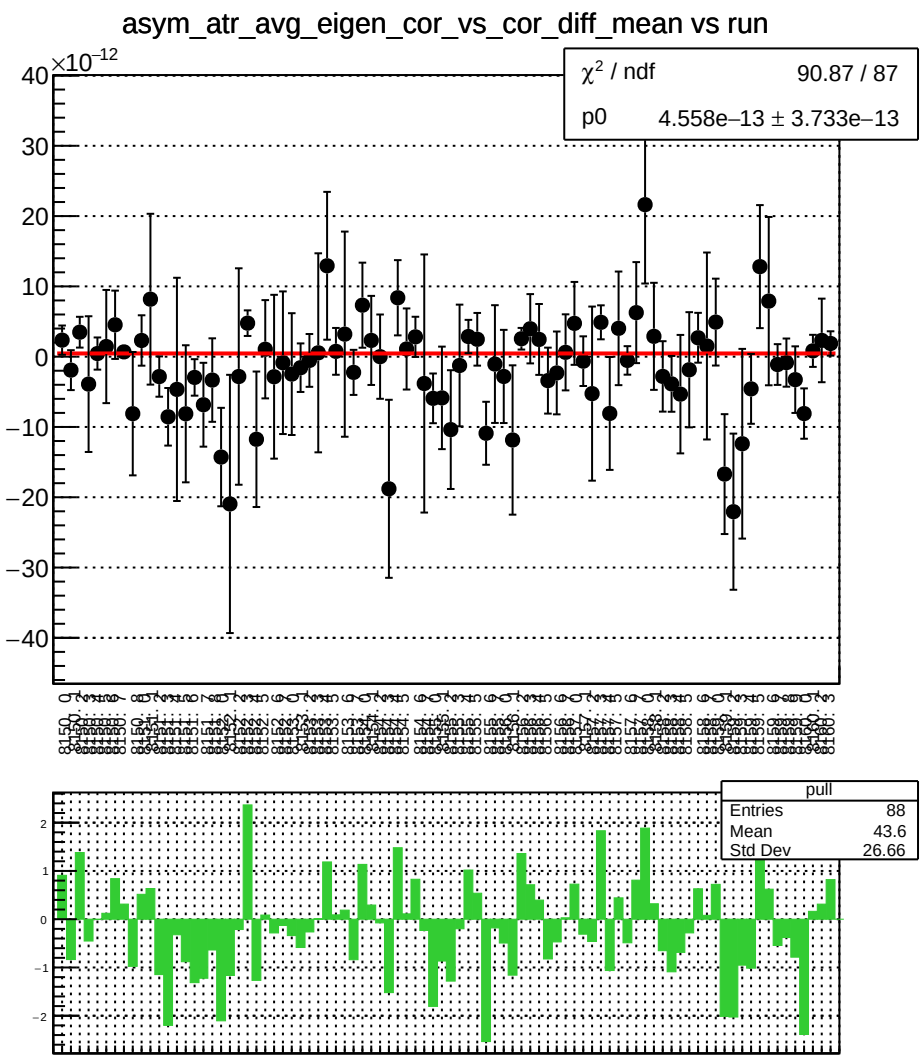

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 985.5 / 87
p0 0.0145 ± 1.12e−05
0.0155
0.015
0.0145
0.014
0.0135

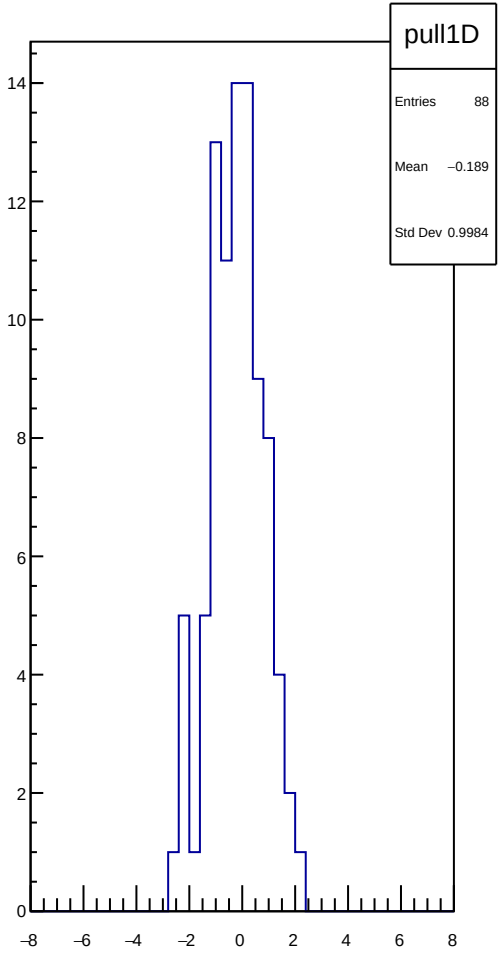

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.38 / 87
p0 −0.3269 ± 0.227
pull
Entries 88
Mean 40.23
Std Dev 15.67
pull1D
Entries 88
Mean 0.0248
Std Dev 1.013

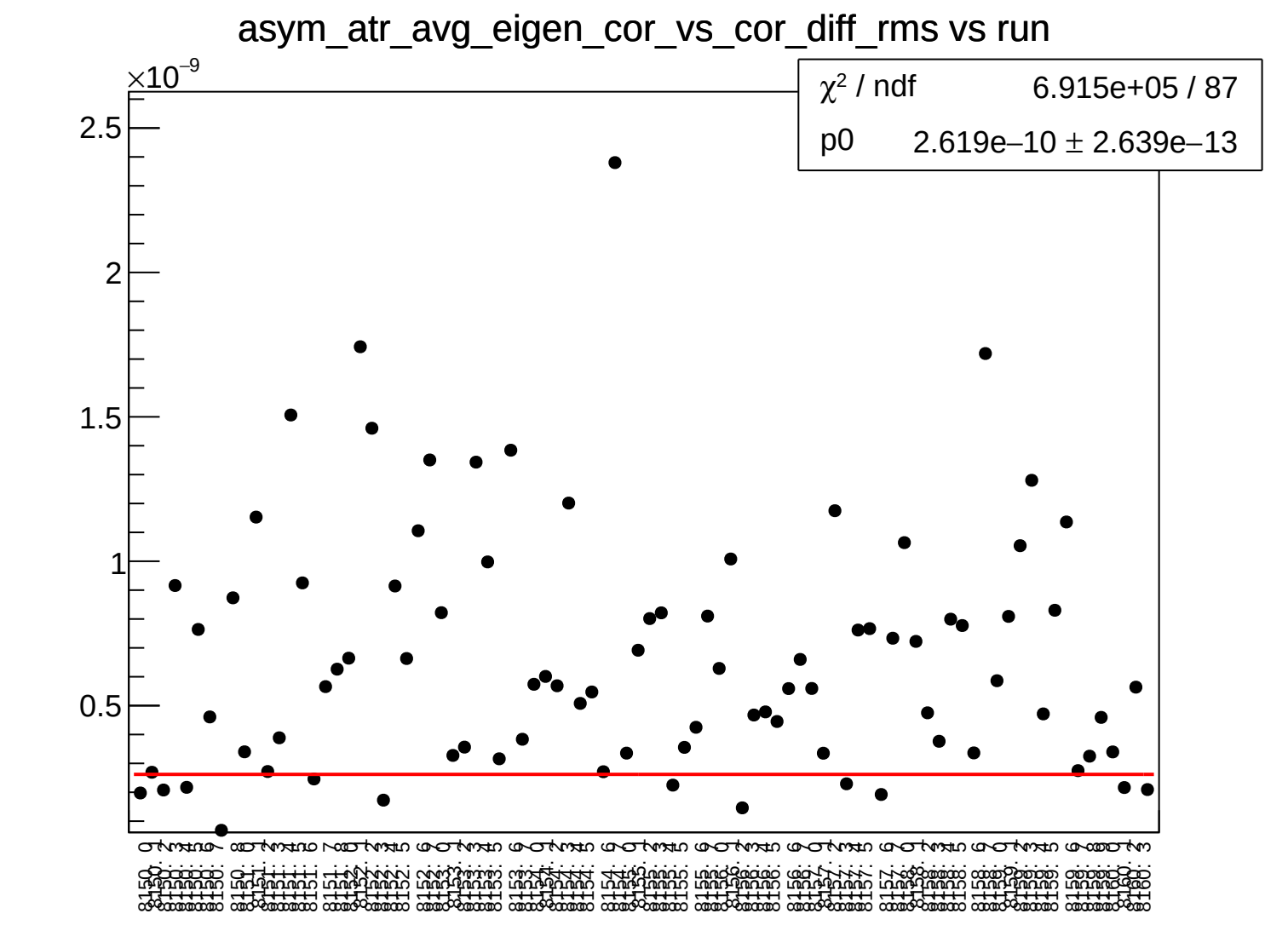

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.086e+04 / 87
p0 206.6 ± 0.1605
280
260
240
220
200
180
160

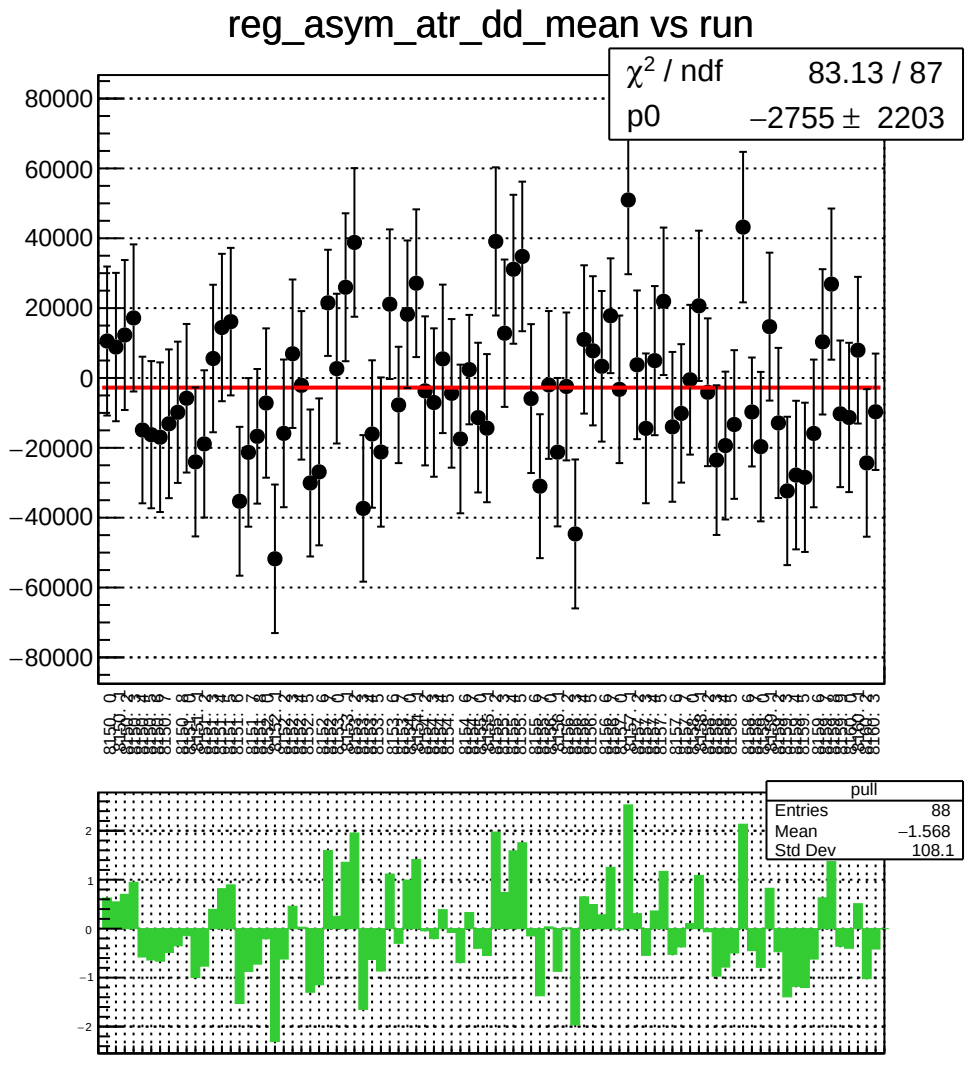

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.38 / 87
p0 −0.3269 ± 0.227
pull
Entries 88
Mean 40.23
Std Dev 15.67
pull1D
Entries 88
Mean 0.0248
Std Dev 1.013

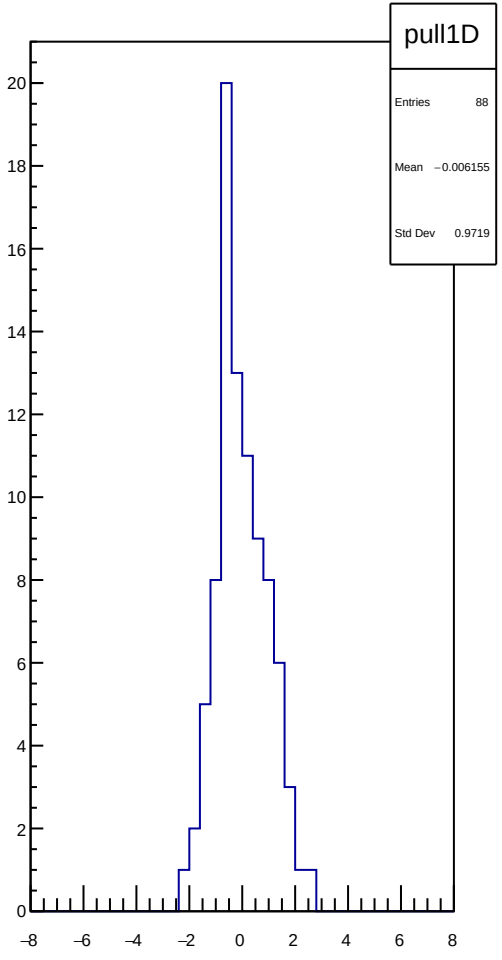

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.086e+04 / 87
p0 206.6 ± 0.1605
280
260
240
220
200
180
160

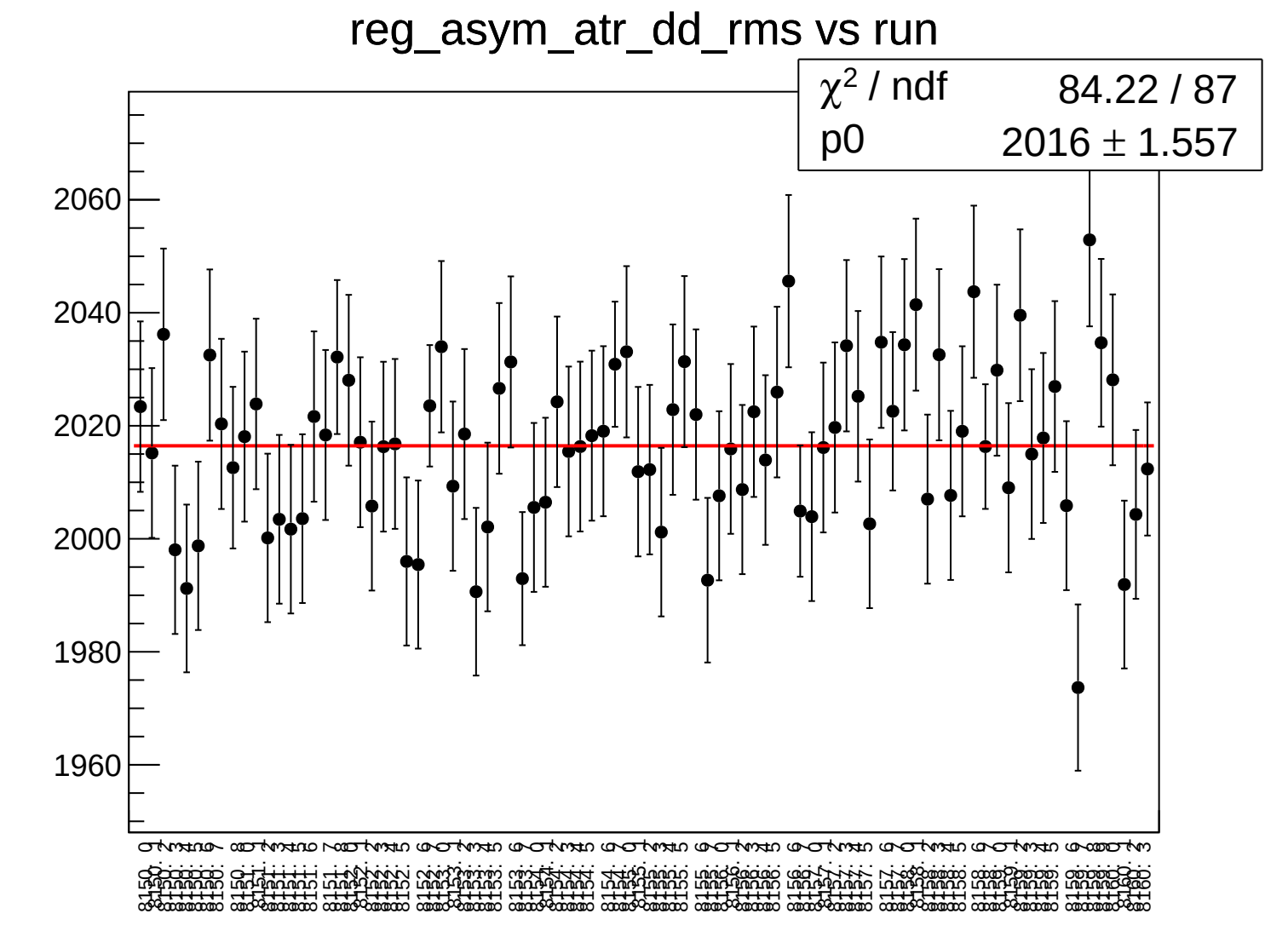

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.87 / 87
p0 4.558e−13 ± 3.733e−13
pull
Entries 88
Mean 43.6
Std Dev 26.66

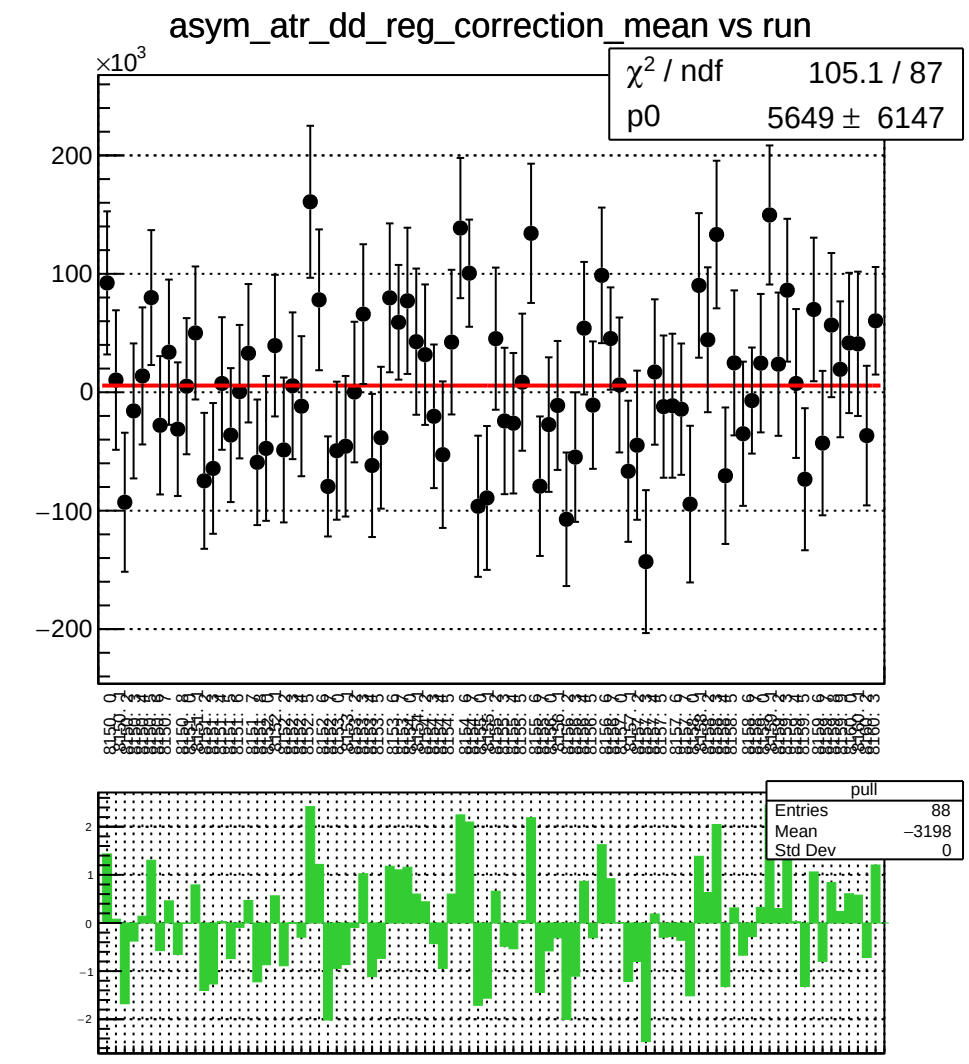

pull1D
Entries 88
Mean −0.189
Std Dev 0.9984

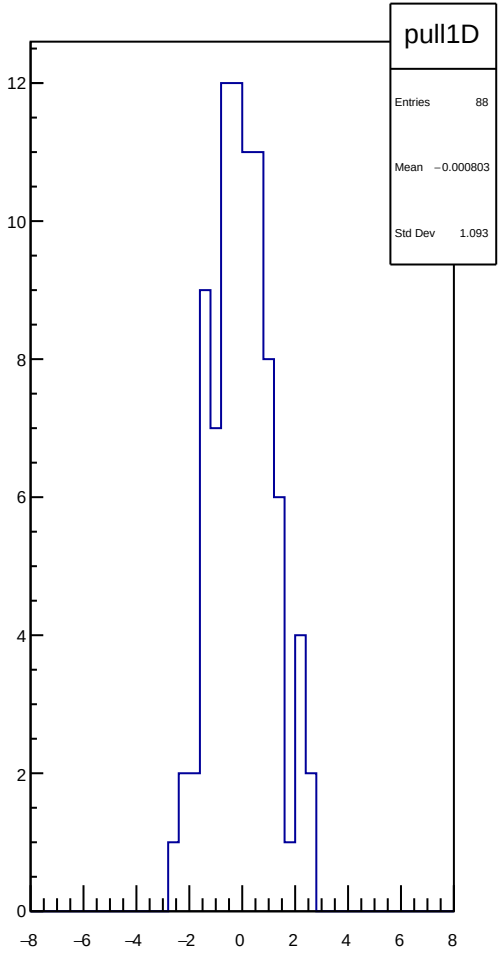

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.915e+05 / 87
p0 2.619e−10 ± 2.639e−13
2.5
2
1.5
1
0.5

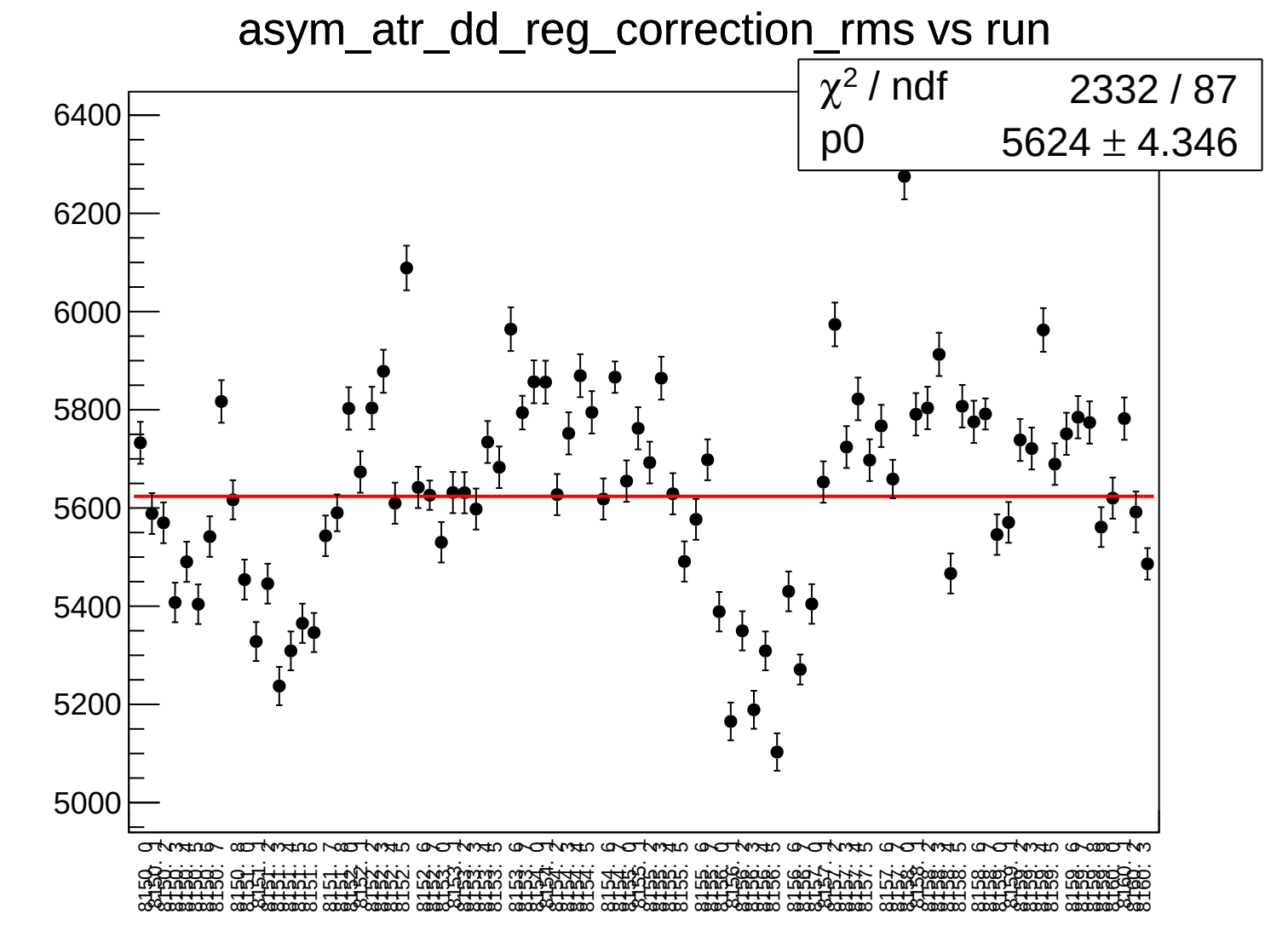

reg_asym_atr_dd_mean vs run
χ² / ndf 83.13 / 87
p0 −2755 ± 2203
pull
Entries 88
Mean −1.568
Std Dev 108.1

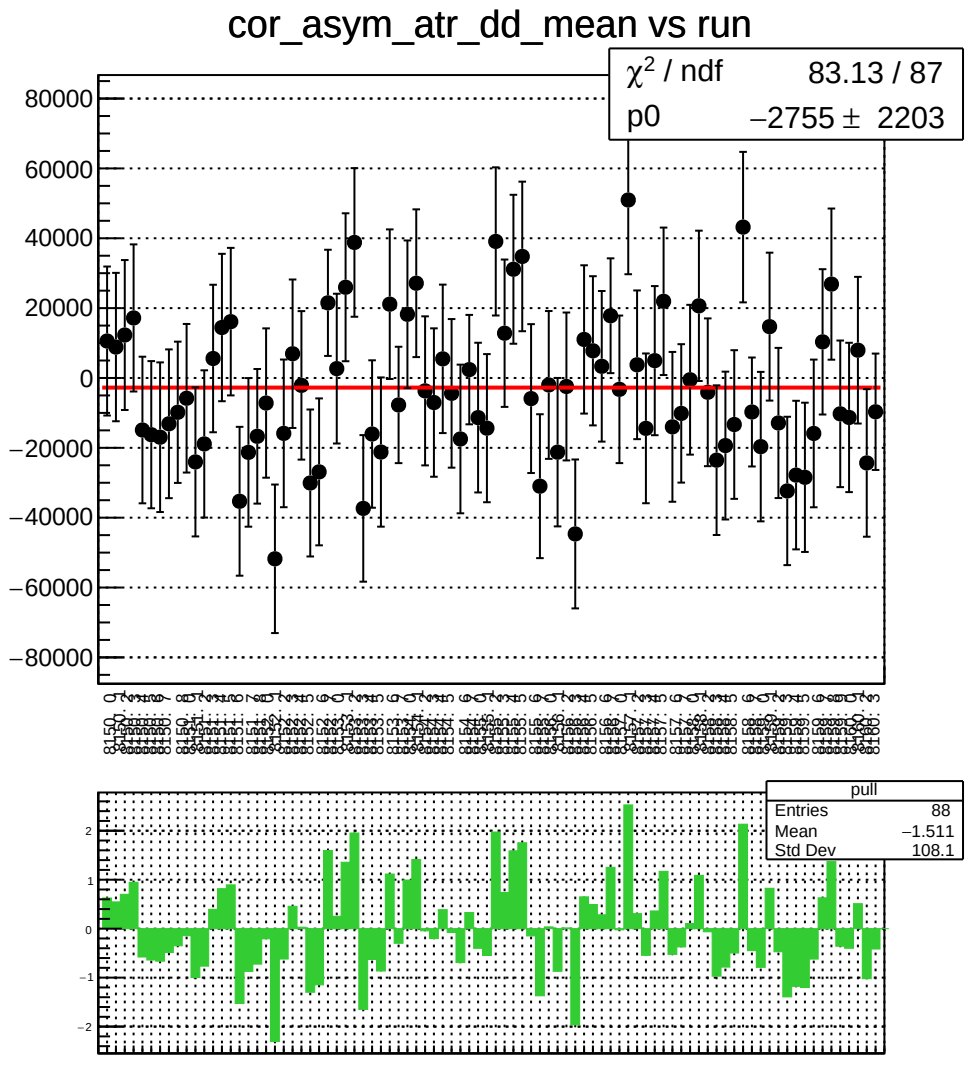

pull1D
Entries 88
Mean −0.006155
Std Dev 0.9719

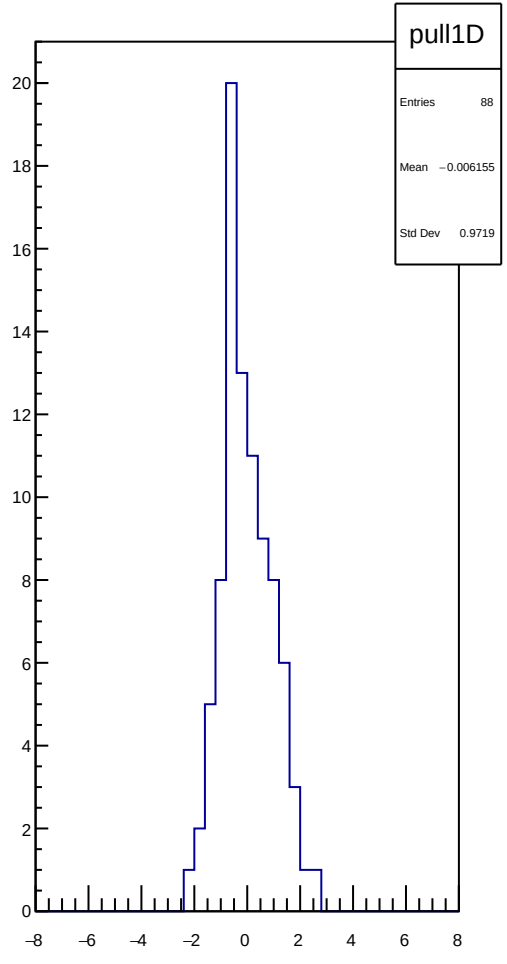

reg_asym_atr_dd_rms vs run
χ^2 / ndf 84.22 / 87
p0 2016 ± 1.557
2060
2040
2020
2000
1980
1960

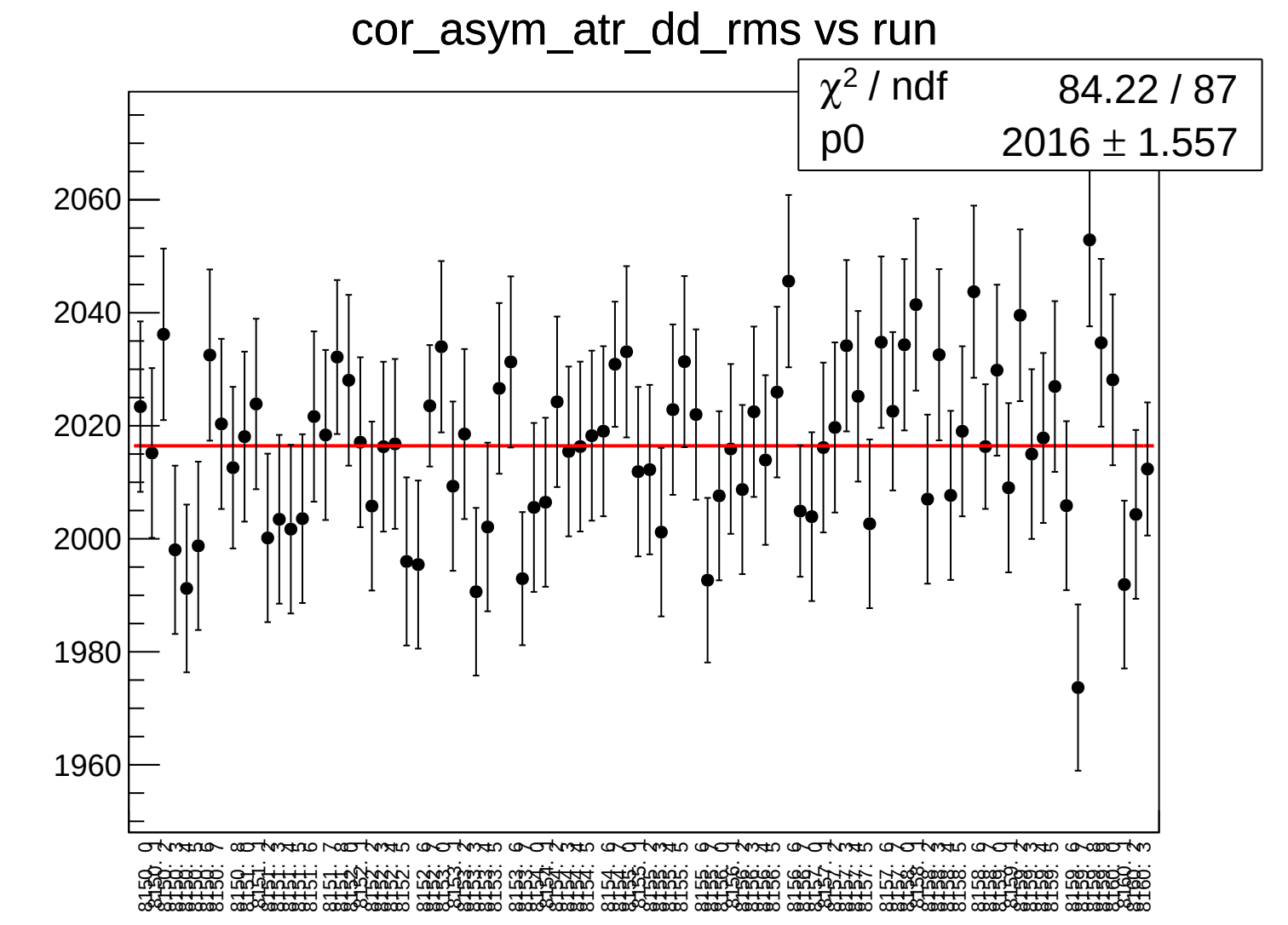

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 105.1 / 87
p0 5649 ± 6147
200
100
0
−100
−200
pull
Entries 88
Mean −3198
Std Dev 0
2
1
0
−1
−2

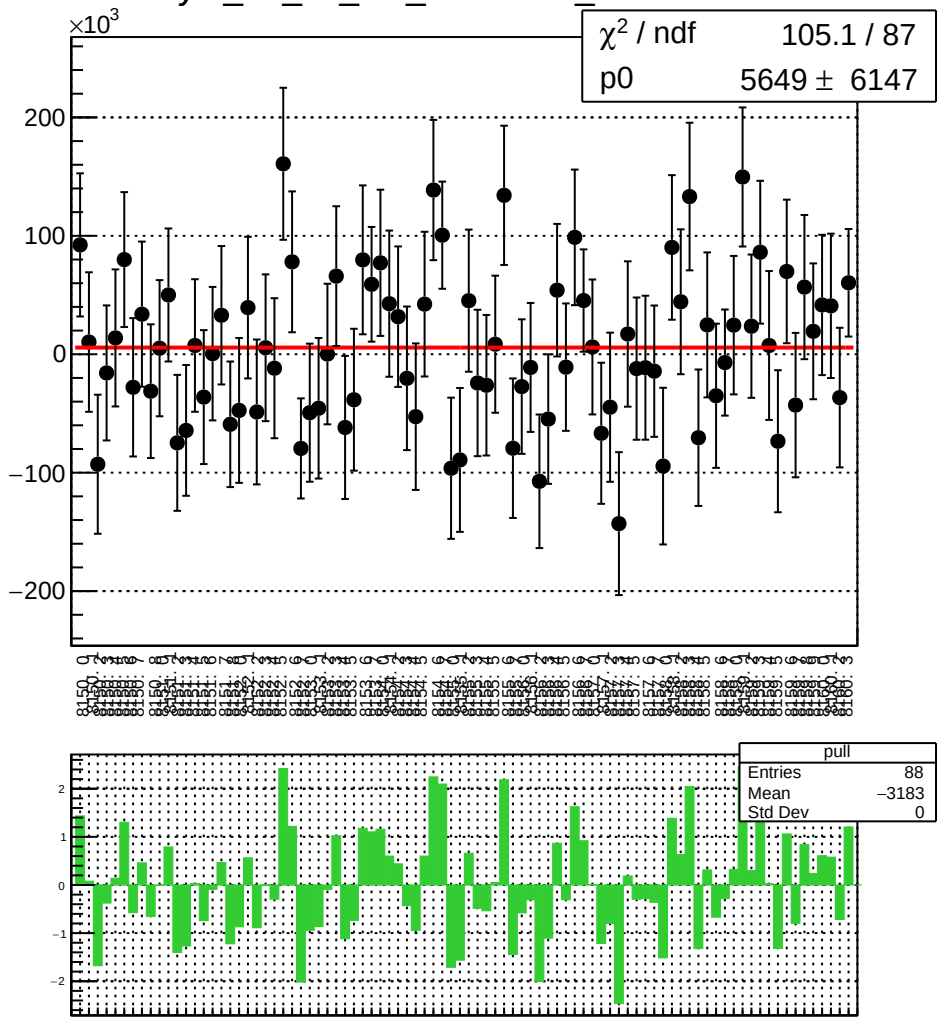

pull1D
Entries 88
Mean −0.000803
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

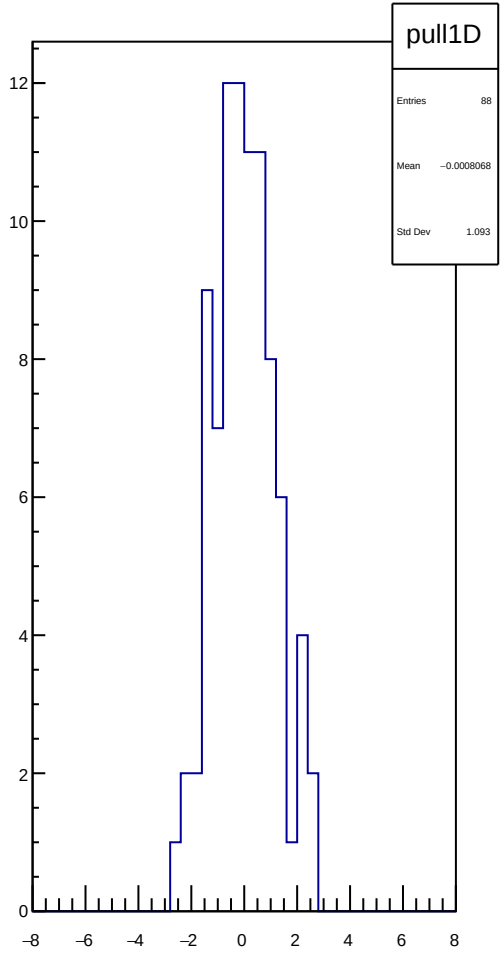

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 2332 / 87
p0 5624 ± 4.346
6400
6200
6000
5800
5600
5400
5200
5000

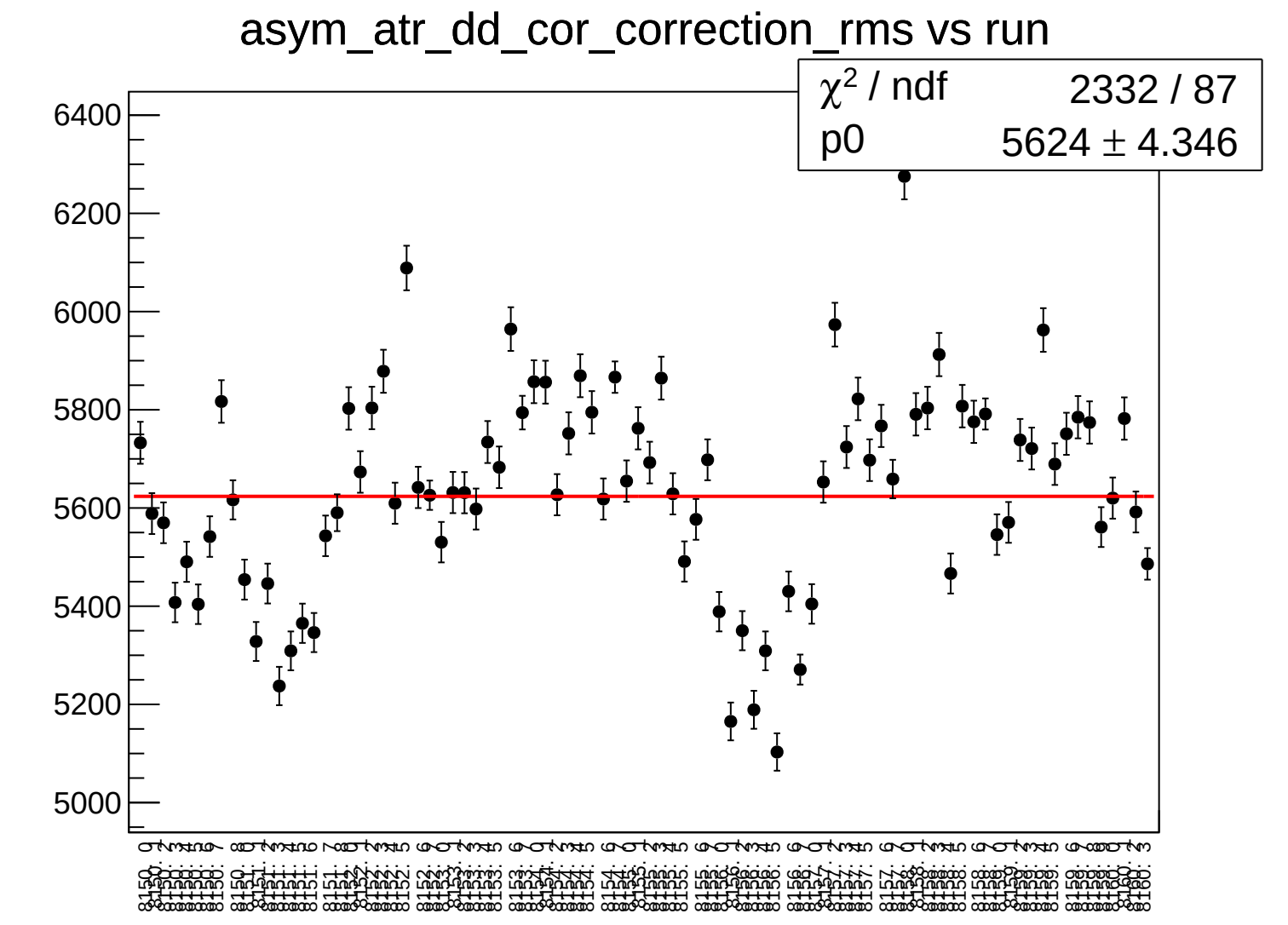

cor_asym_atr_dd_mean vs run
χ² / ndf 83.13 / 87
p0 −2755 ± 2203
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −1.511
Std Dev 108.1
2
1
0
−1
−2

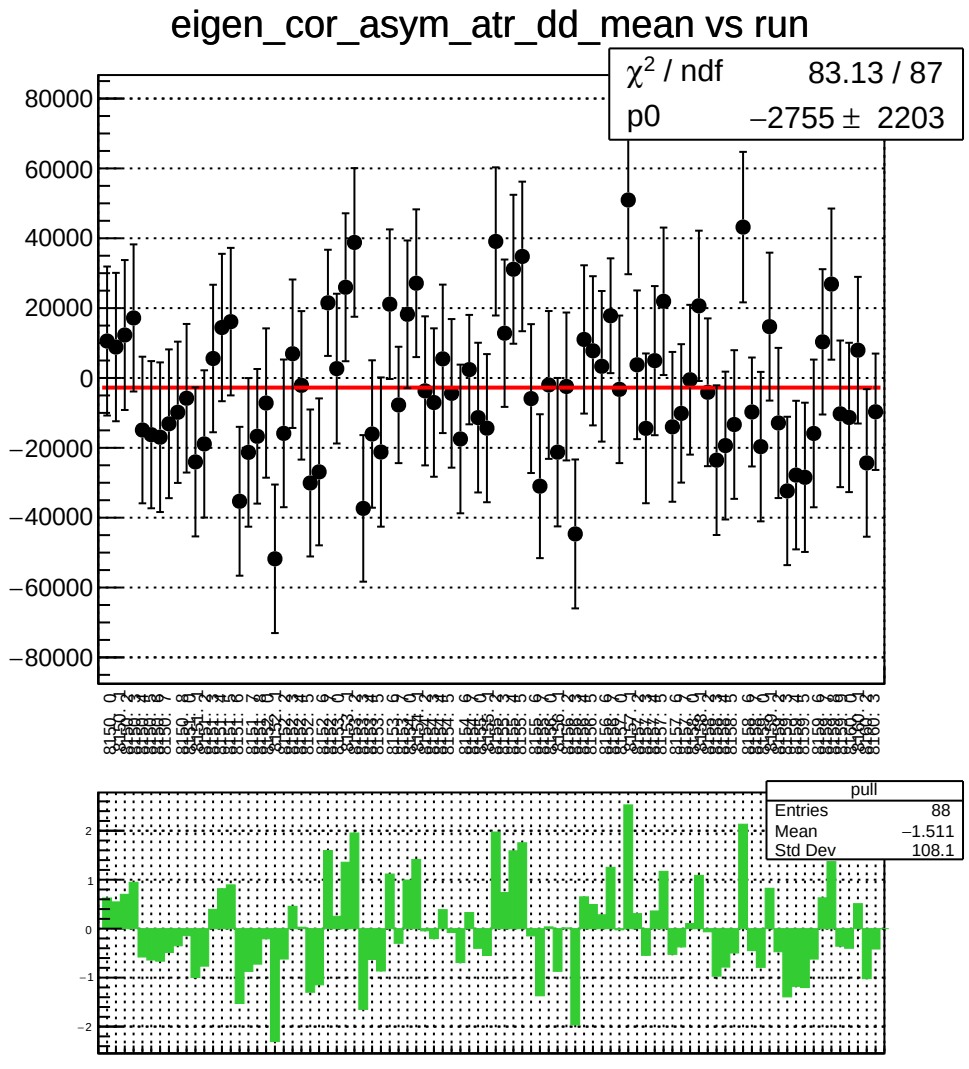

pull1D
Entries 88
Mean −0.006155
Std Dev 0.9719
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

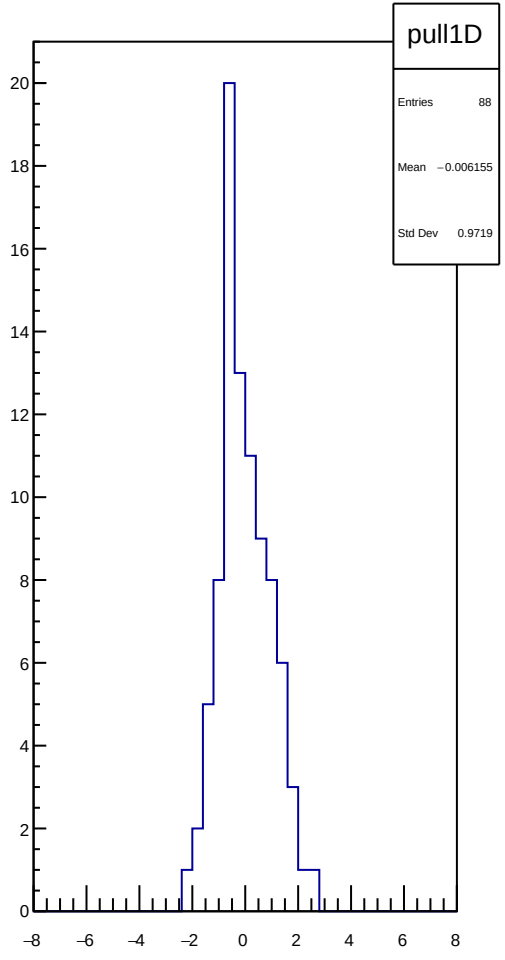

cor_asym_atr_dd_rms vs run
χ^2 / ndf 84.22 / 87
p0 2016 ± 1.557
2060
2040
2020
2000
1980
1960

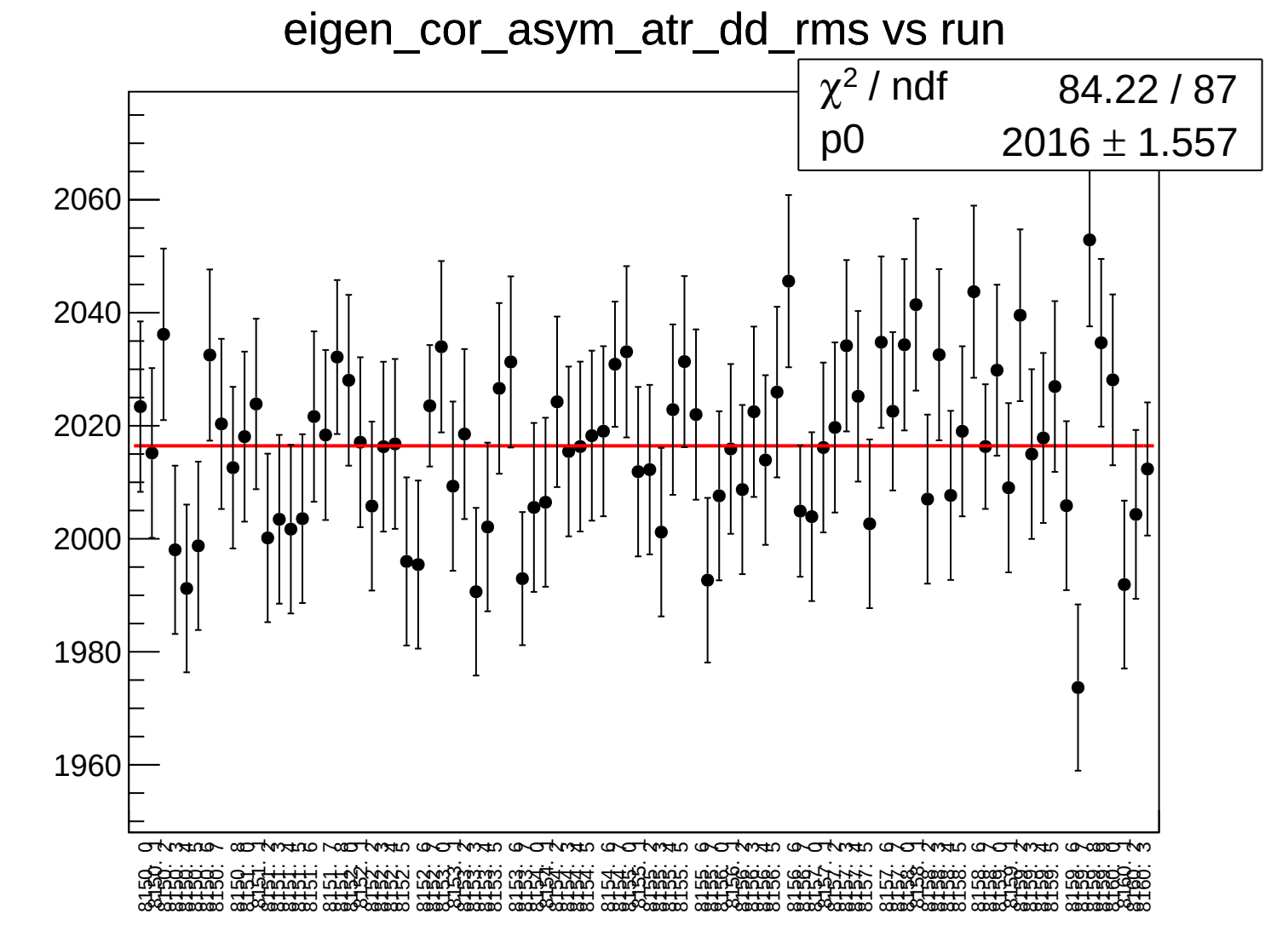

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 105.1 / 87
p0 5649 ± 6147
×10³
200
100
0
−100
−200
pull
Entries 88
Mean −3183
Std Dev 0
2
1
0
−1
−2

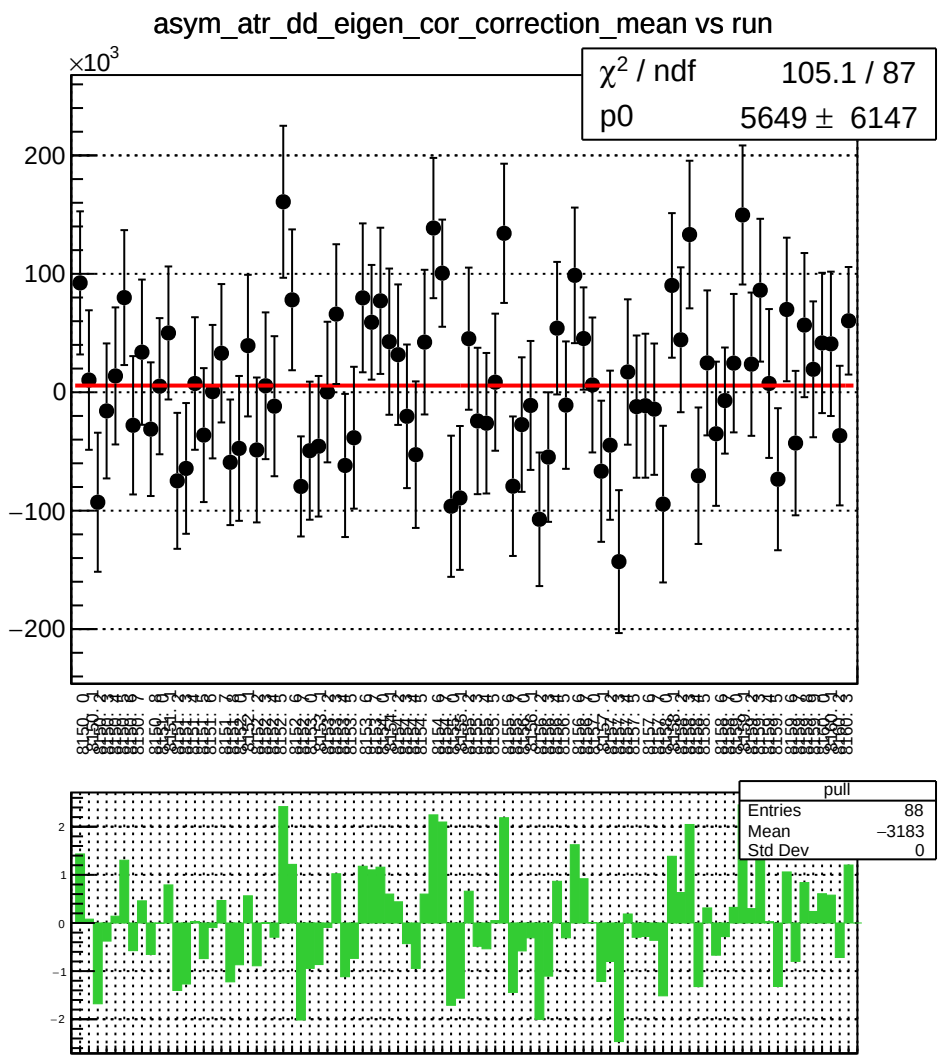

pull1D
Entries 88
Mean −0.0008068
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

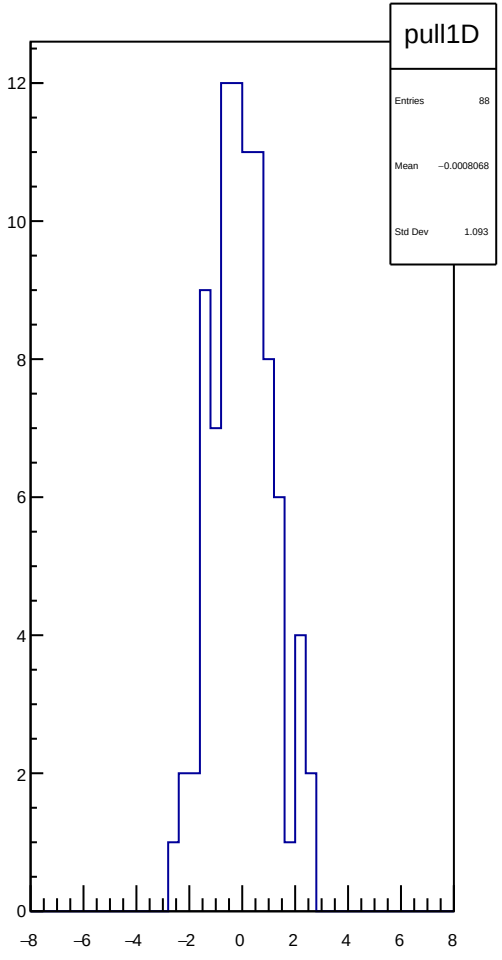

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 2332 / 87
p0 5624 ± 4.346
6400
6200
6000
5800
5600
5400
5200
5000

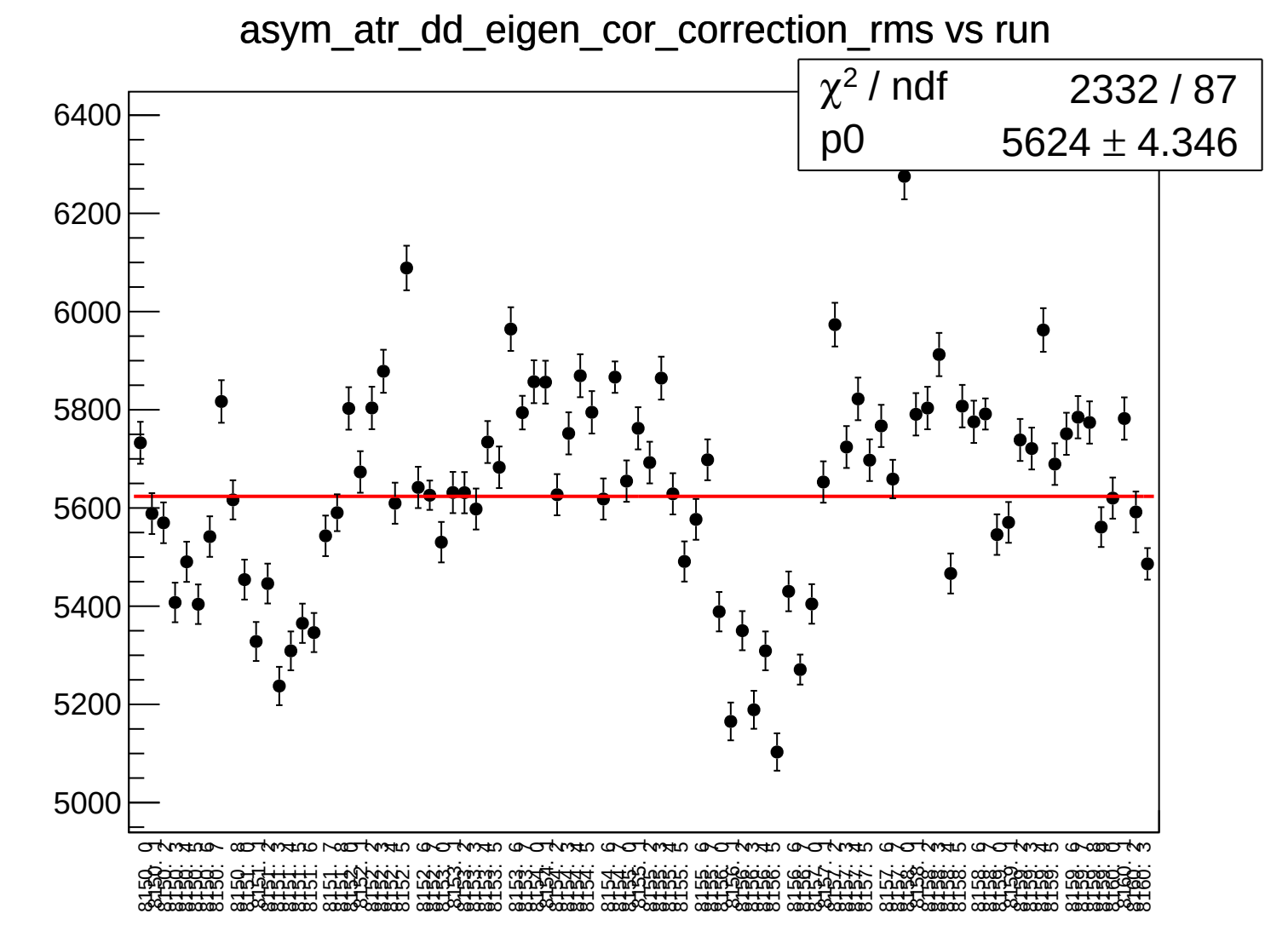

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 83.13 / 87
p0 −2755 ± 2203
pull
Entries 88
Mean −1.511
Std Dev 108.1

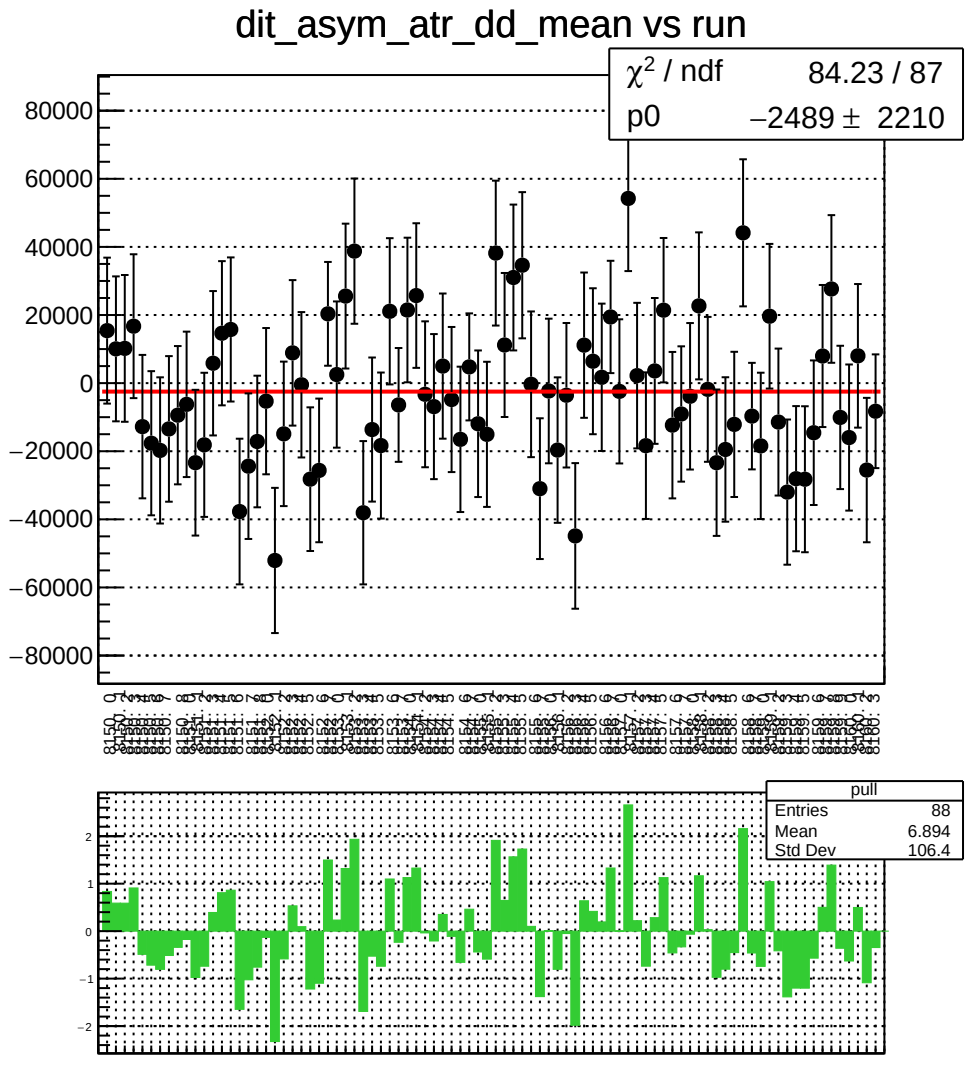

pull1D
Entries 88
Mean −0.006155
Std Dev 0.9719

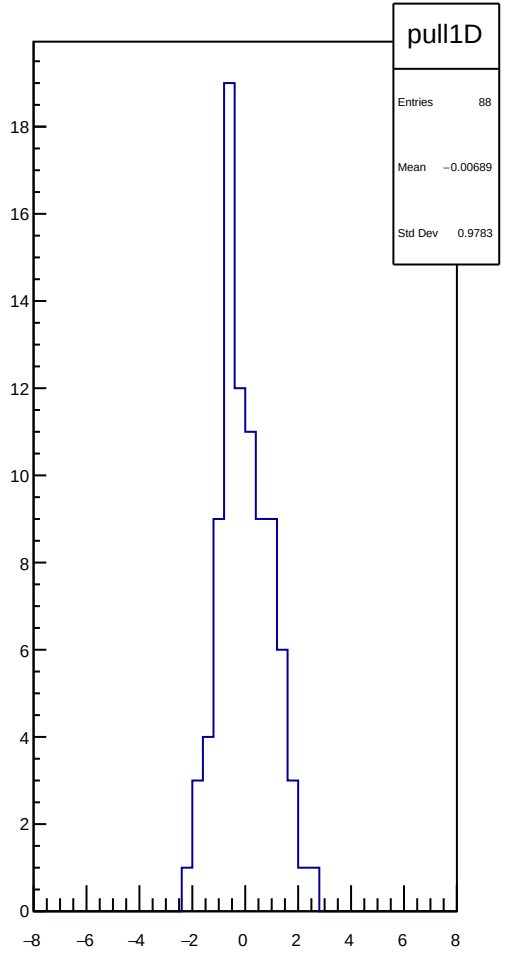

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 84.22 / 87
p0 2016 ± 1.557
2060
2040
2020
2000
1980
1960

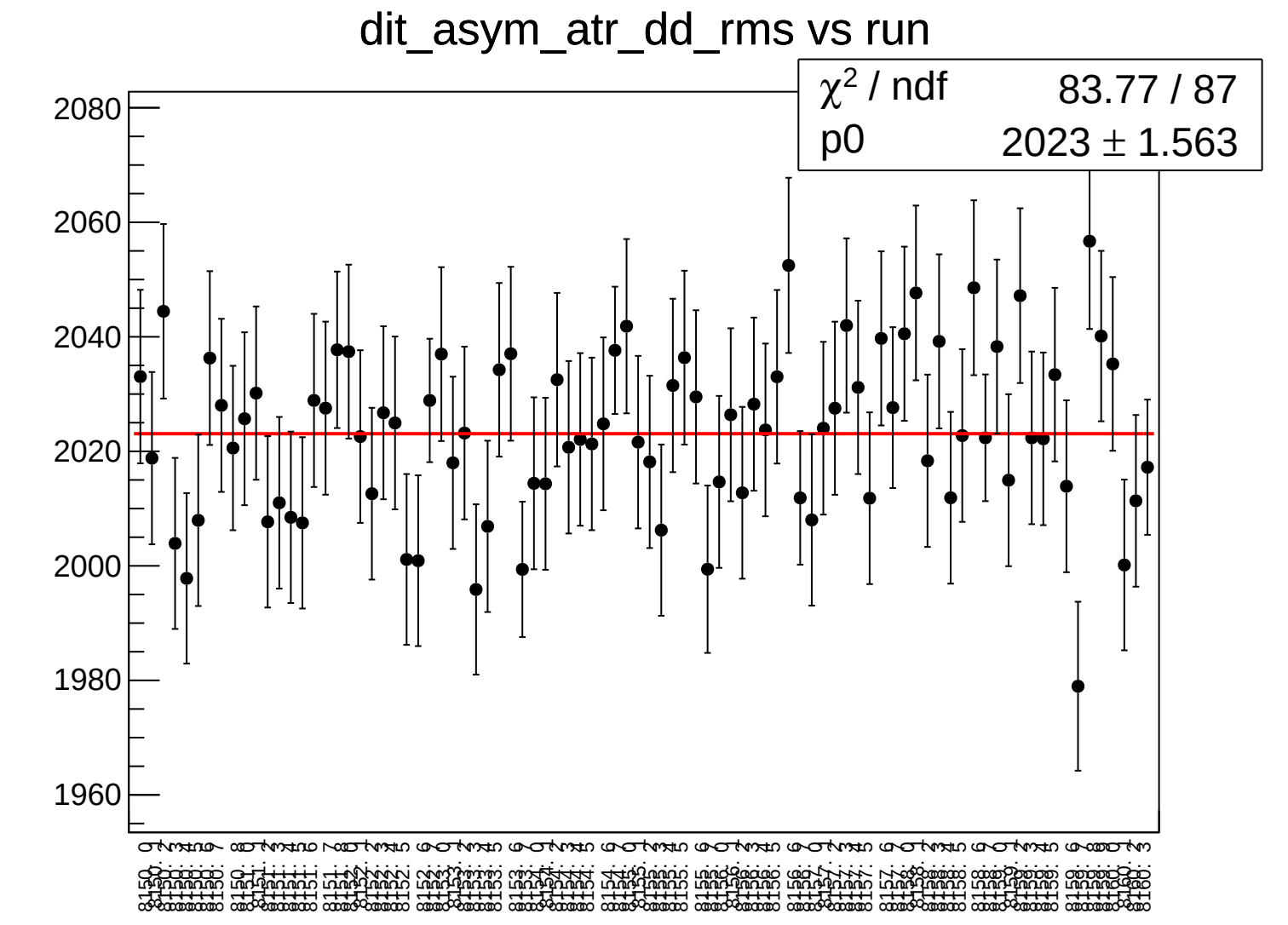

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 105.1 / 87
p0 5649 ± 6147
200
100
0
−100
−200
pull
Entries 88
Mean −3183
Std Dev 0
2
1
0
−1
−2

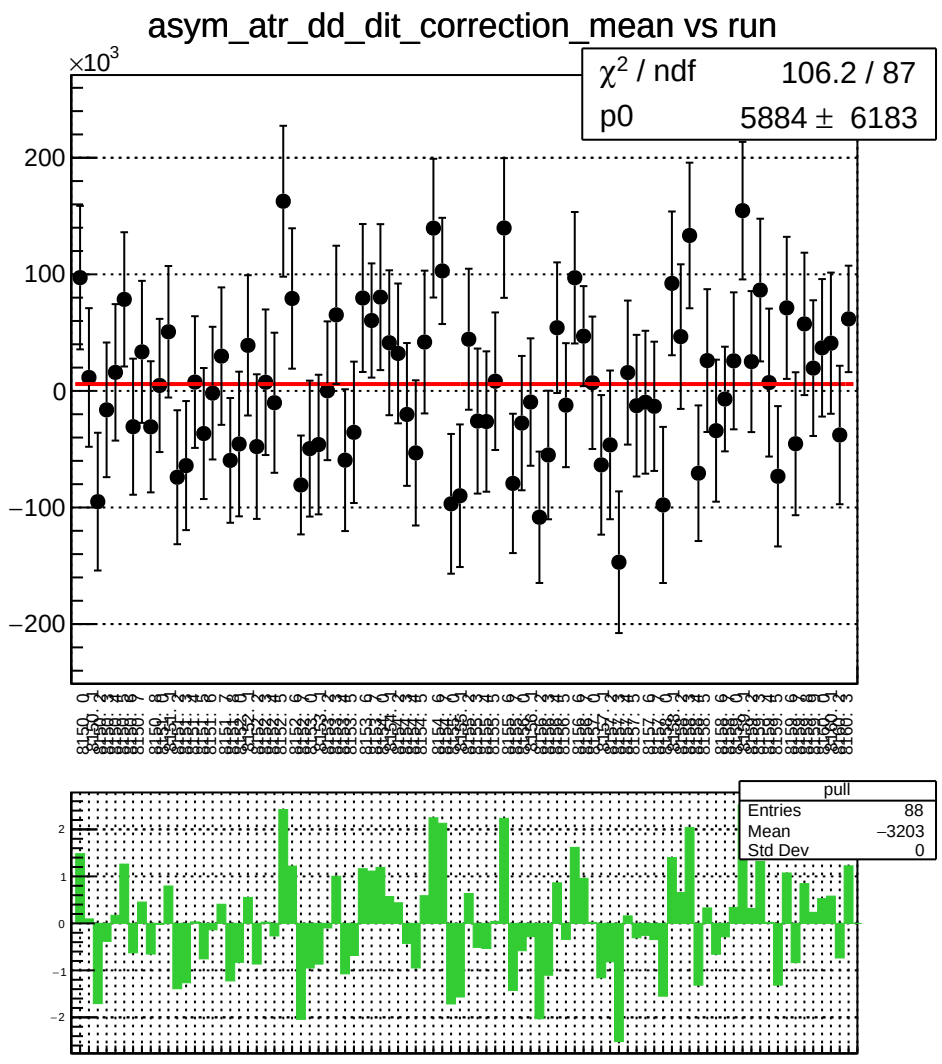

pull1D
Entries 88
Mean −0.0008068
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

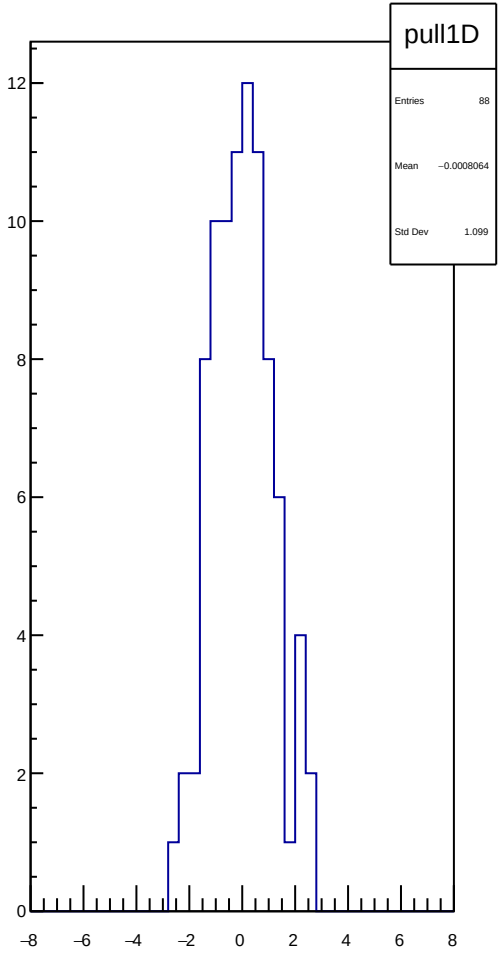

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 2332 / 87
p0 5624 ± 4.346
6400
6200
6000
5800
5600
5400
5200
5000

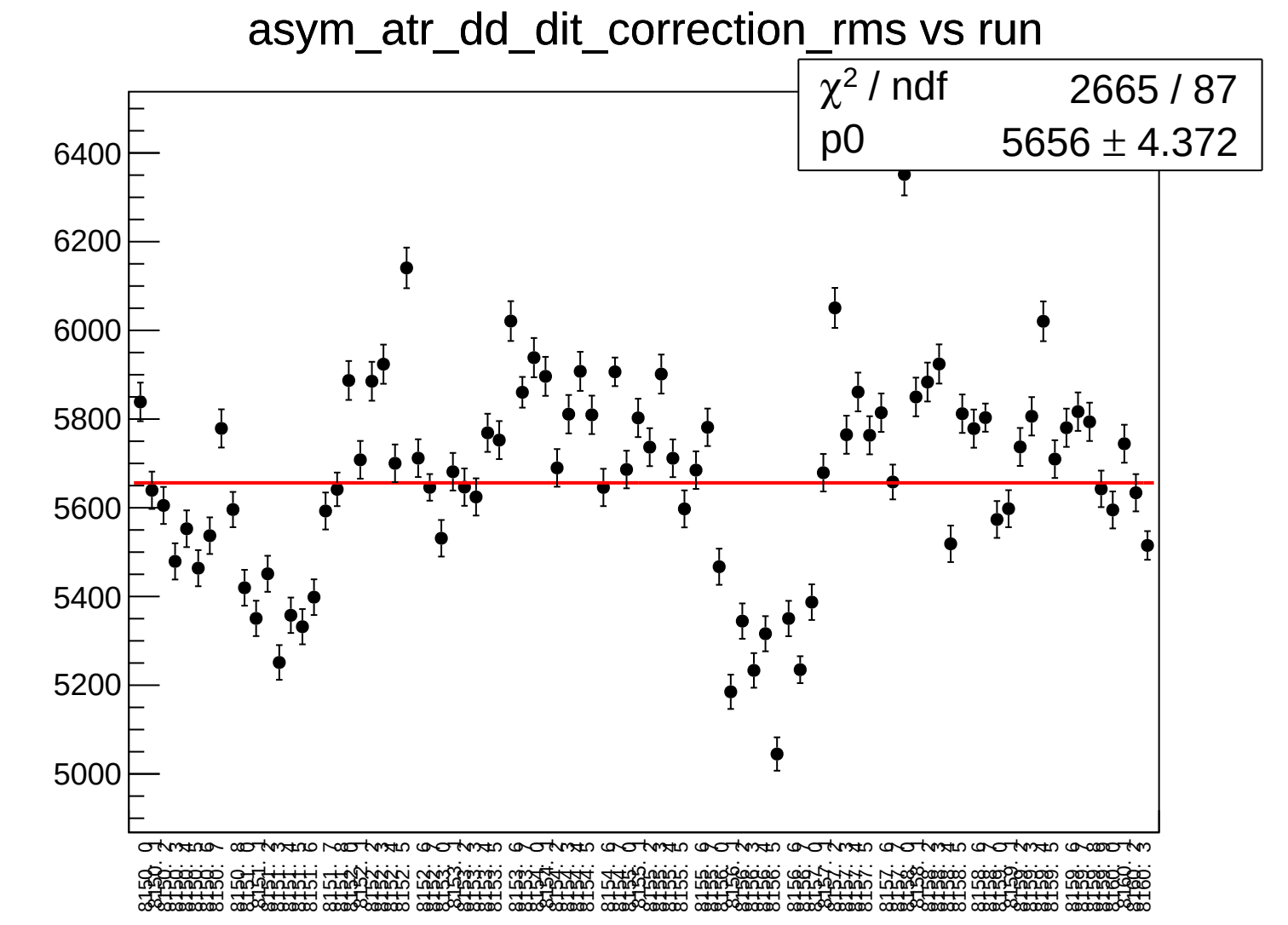

dit_asym_atr_dd_mean vs run
χ² / ndf 84.23 / 87
p0 −2489 ± 2210
pull
Entries 88
Mean 6.894
Std Dev 106.4

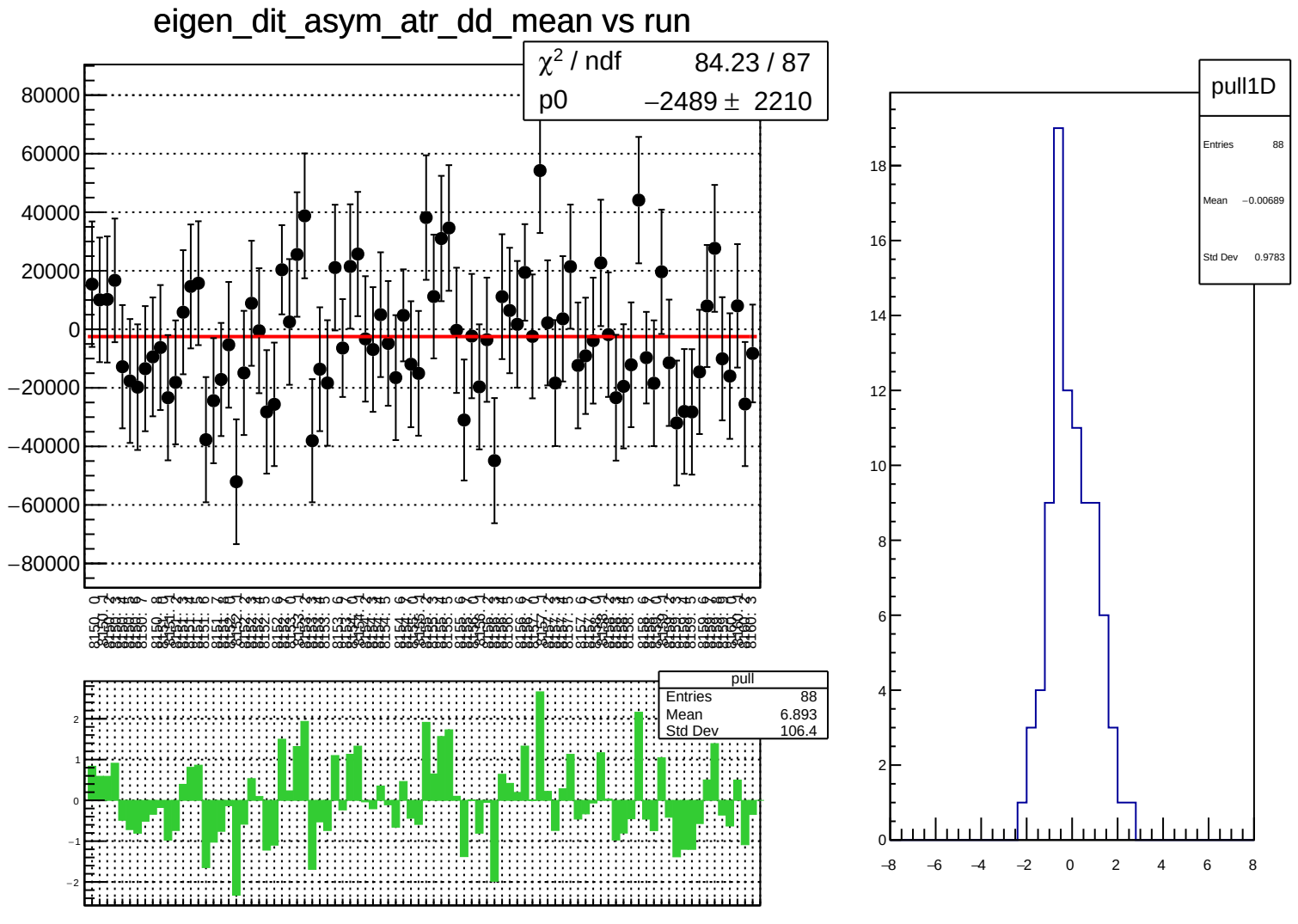

pull1D
Entries 88
Mean −0.00689
Std Dev 0.9783

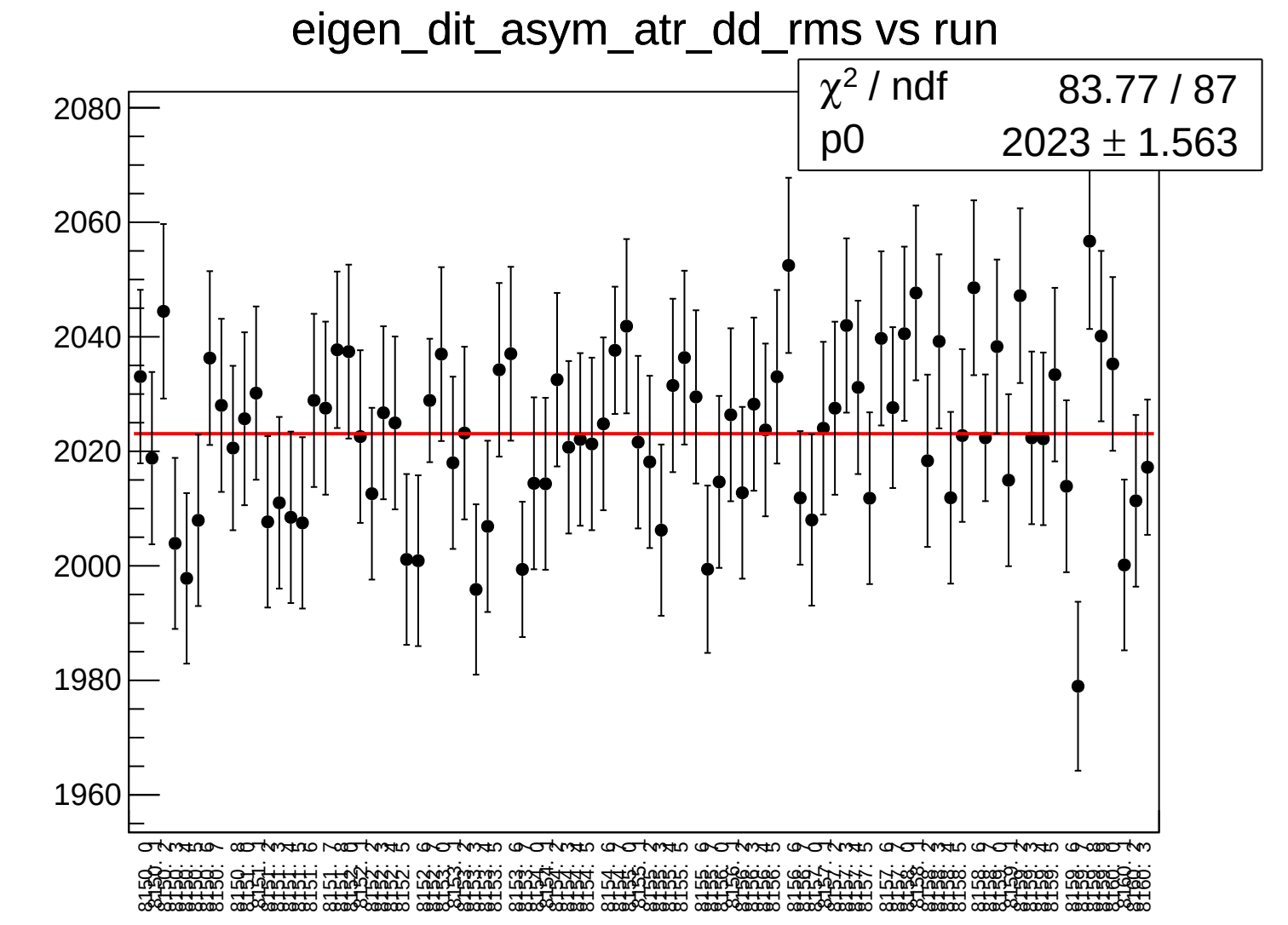

dit_asym_atr_dd_rms vs run
χ² / ndf 83.77 / 87
p0 2023 ± 1.563
2080
2060
2040
2020
2000
1980
1960

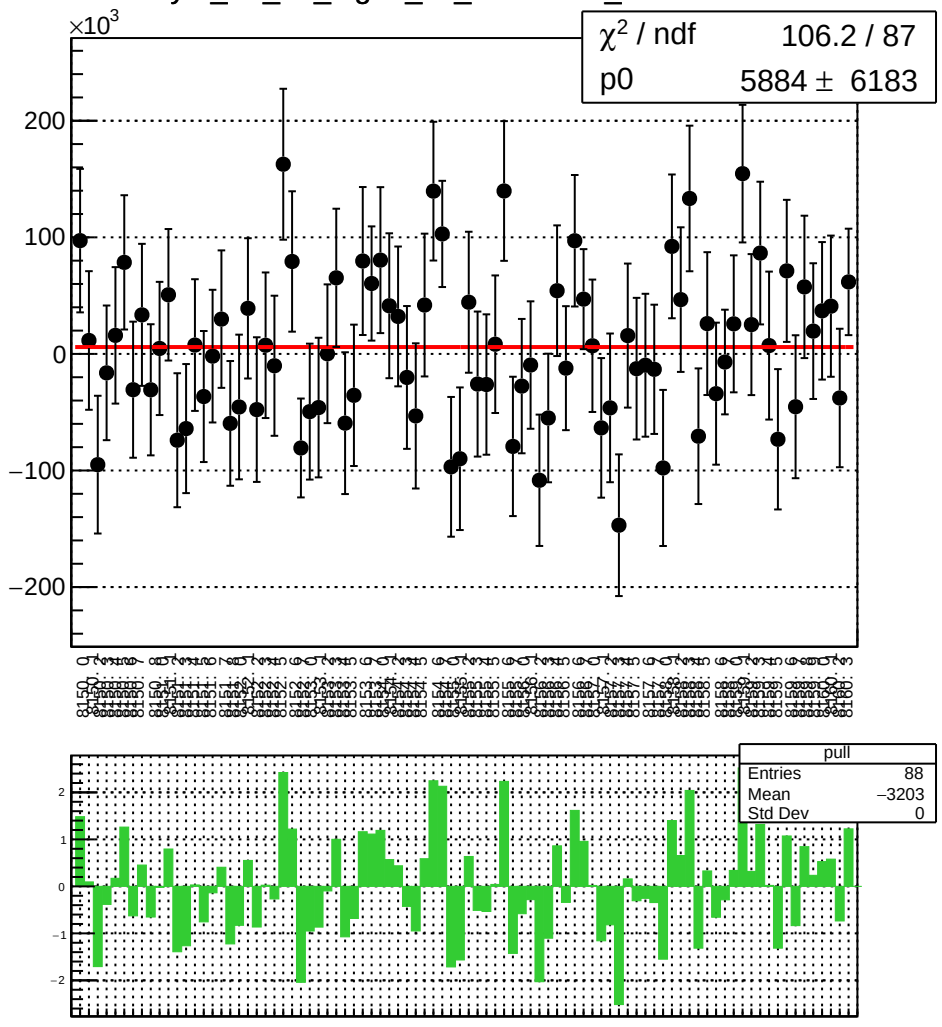

asym_atr_dd_dit_correction_mean vs run
χ² / ndf 106.2 / 87
p0 5884 ± 6183
×10³
200
100
0
−100
−200
pull
Entries 88
Mean −3203
Std Dev 0
2
1
0
−1
−2

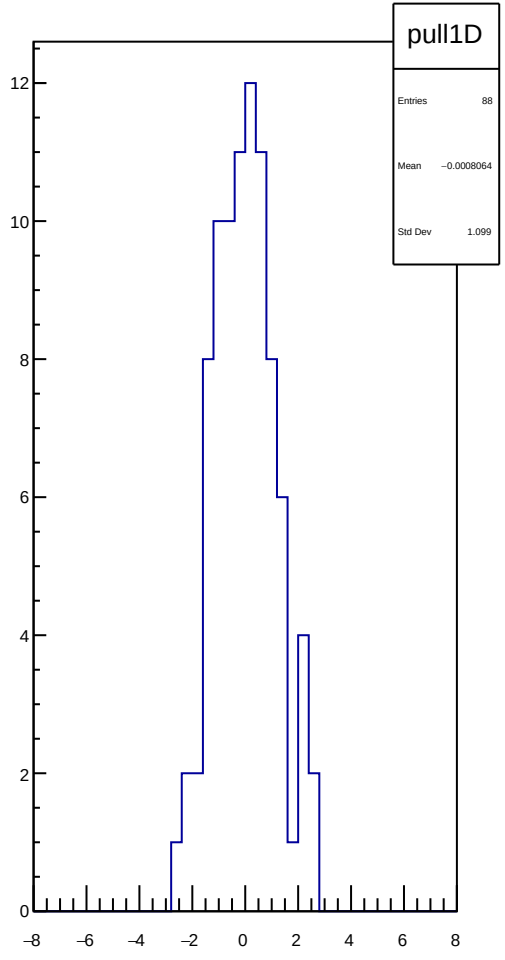

pull1D
Entries 88
Mean −0.0008064
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

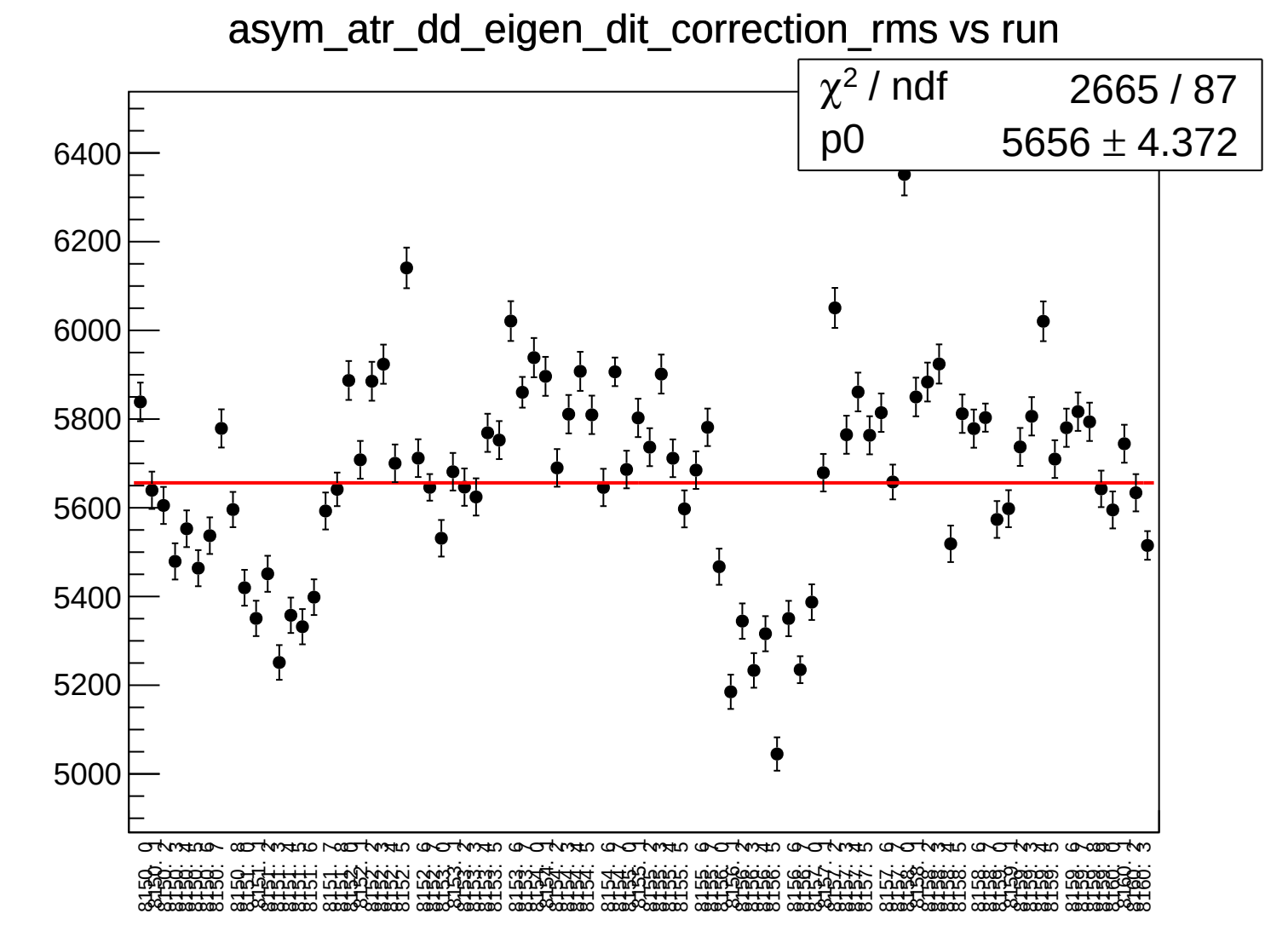

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 2665 / 87
p0 5656 ± 4.372
6400
6200
6000
5800
5600
5400
5200
5000

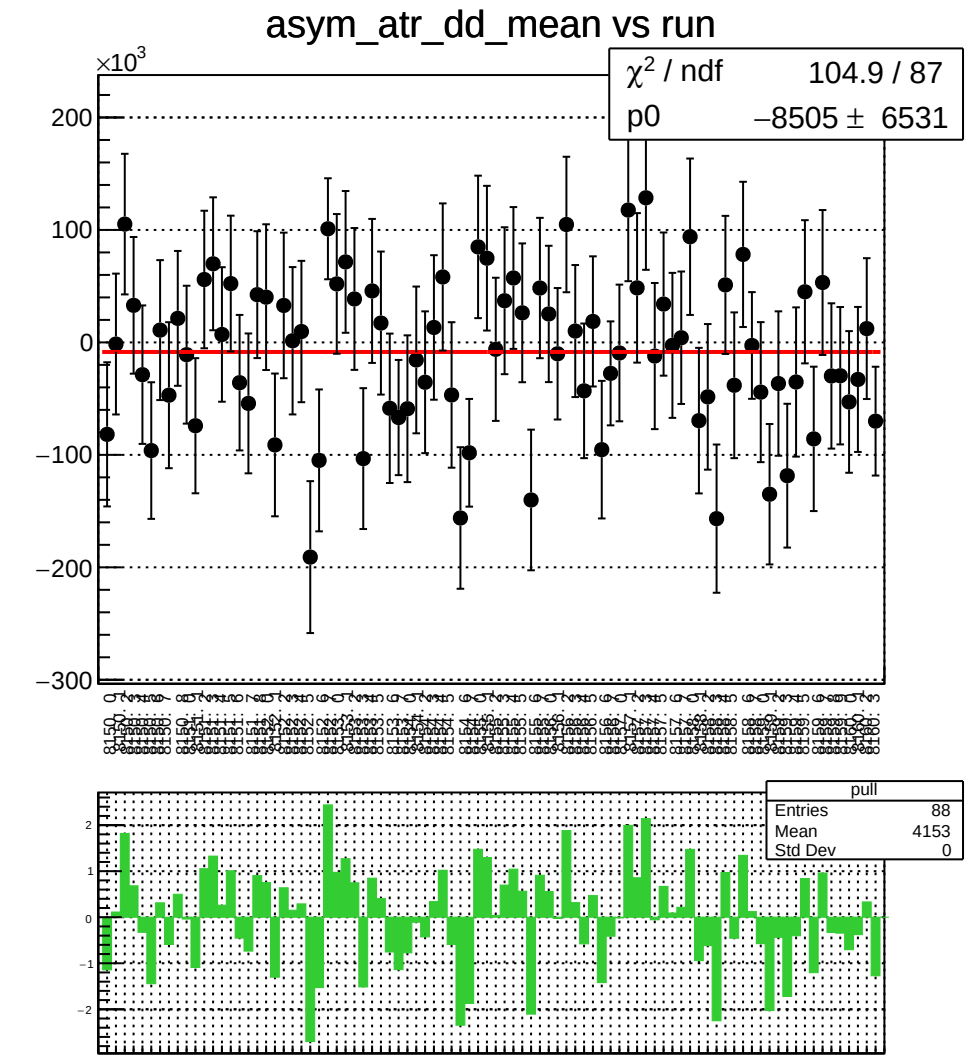

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 84.23 / 87
p0 −2489 ± 2210
pull
Entries 88
Mean 6.893
Std Dev 106.4
pull1D
Entries 88
Mean −0.00689
Std Dev 0.9783

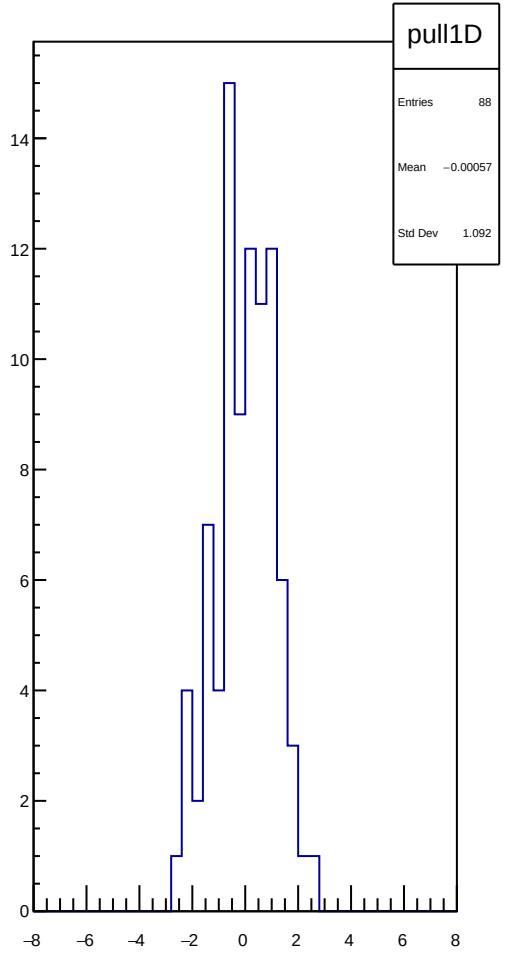

eigen_dit_asym_atr_dd_rms vs run
χ^2 / ndf 83.77 / 87
p0 2023 ± 1.563
2080
2060
2040
2020
2000
1980
1960

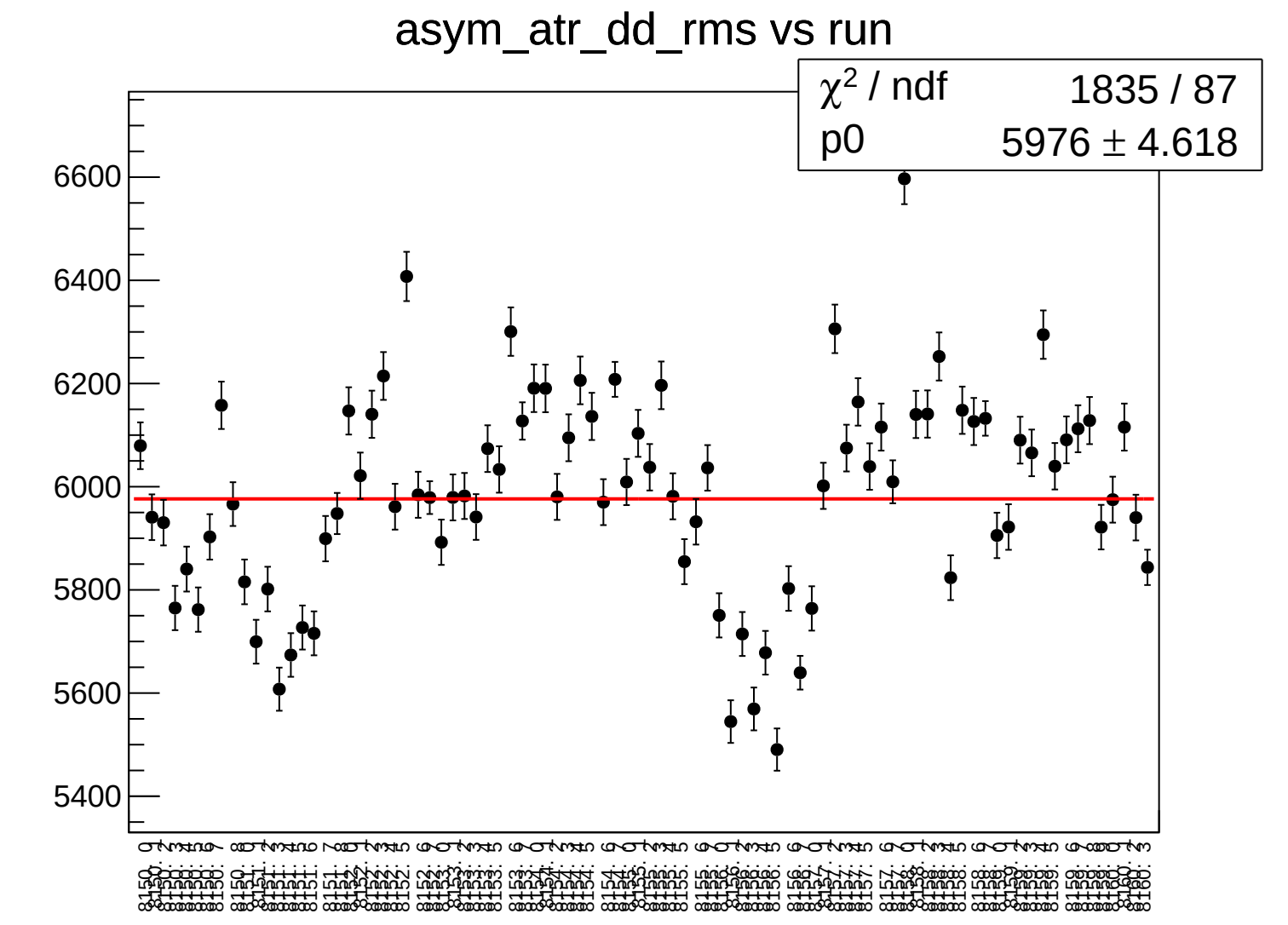

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 106.2 / 87
p0 5884 ± 6183
200
100
0
−100
−200
pull
Entries 88
Mean −3203
Std Dev 0
2
1
0
−1
−2

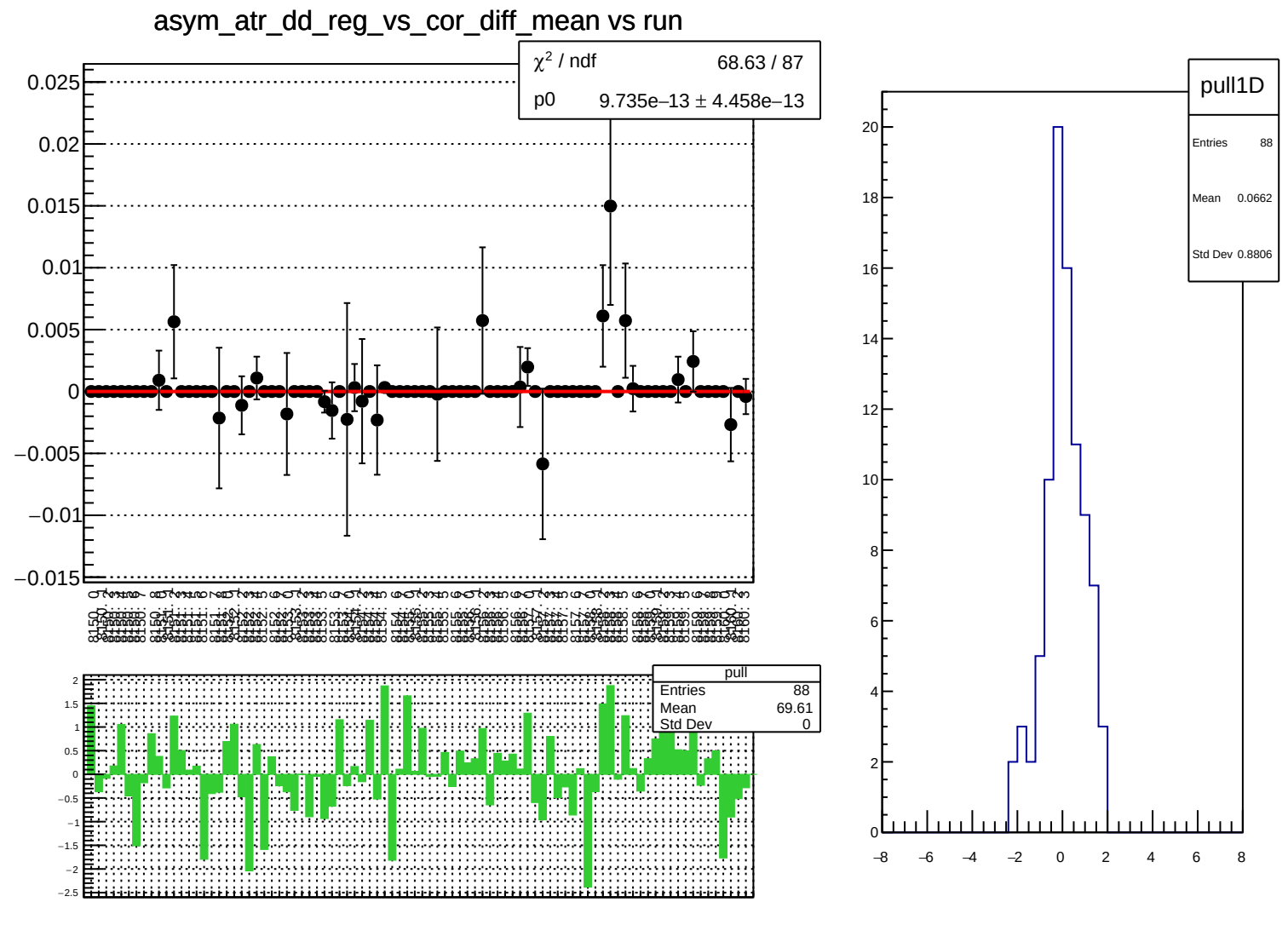

pull1D
Entries 88
Mean −0.0008064
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

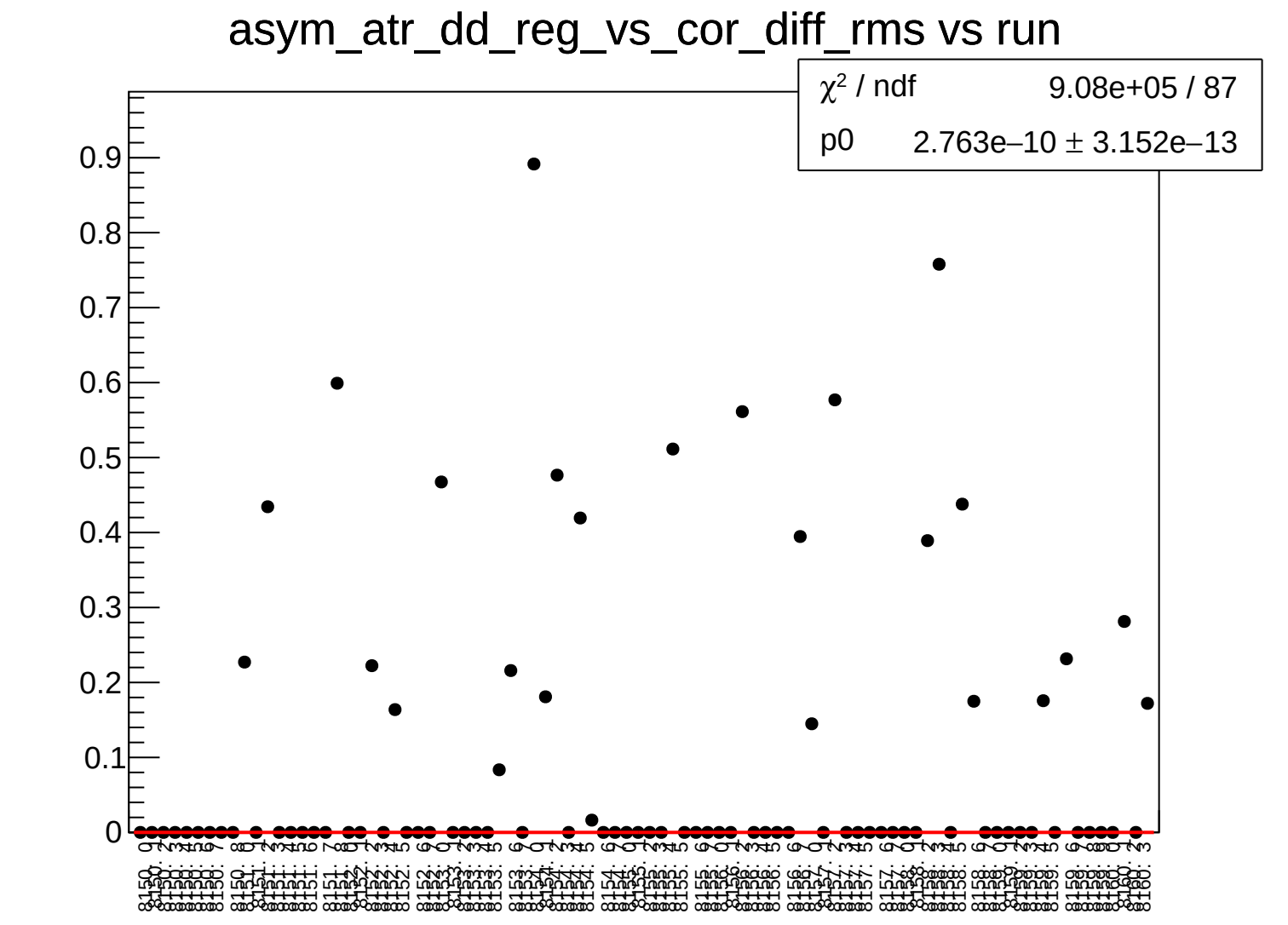

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 2665 / 87
p0 5656 ± 4.372
6400
6200
6000
5800
5600
5400
5200
5000

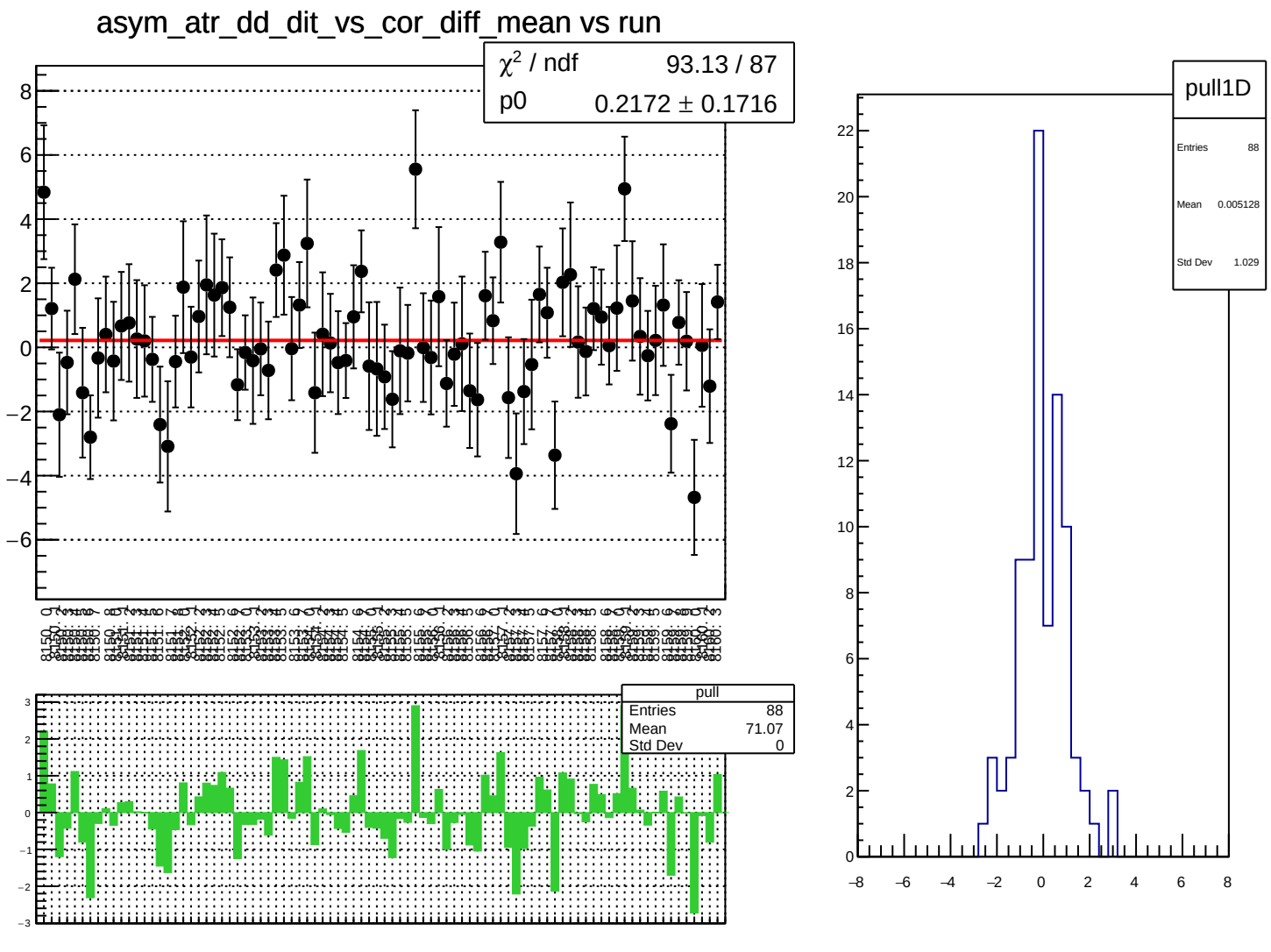

asym_atr_dd_mean vs run
×10^3
χ² / ndf 104.9 / 87
p0 −8505 ± 6531
200
100
0
−100
−200
−300
pull
Entries 88
Mean 4153
Std Dev 0
2
1
0
−1
−2

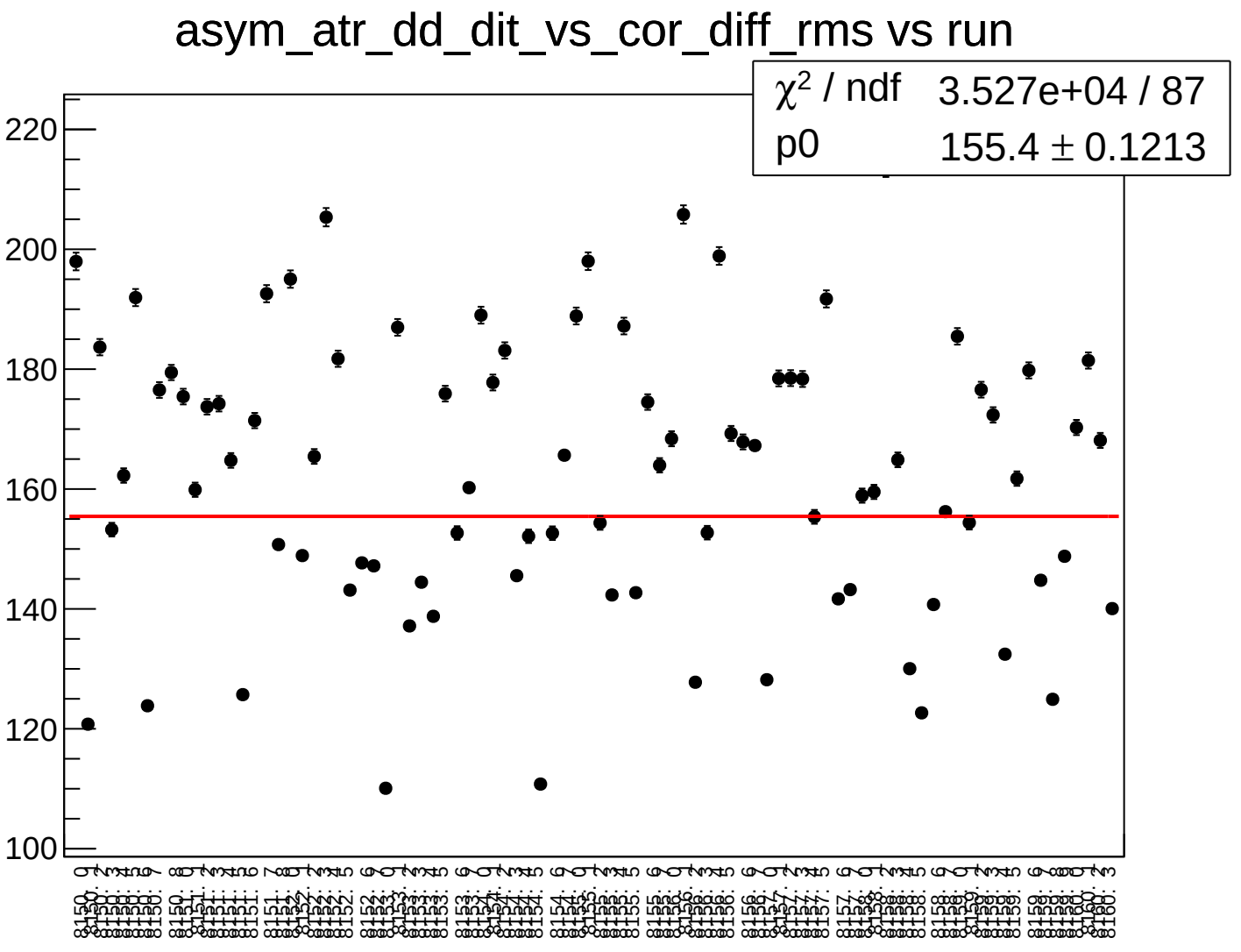

pull1D
Entries 88
Mean −0.00057
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

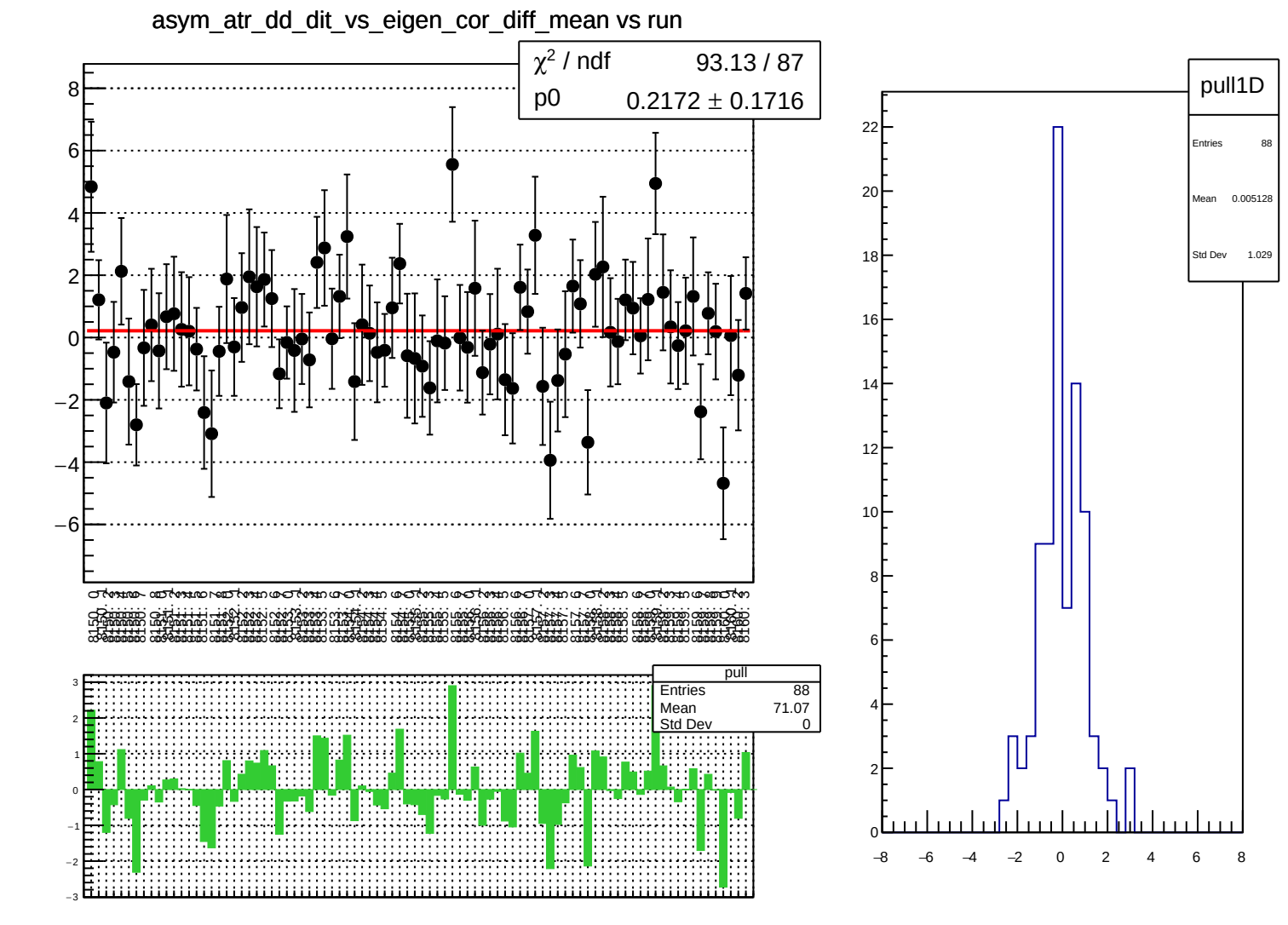

asym_atr_dd_rms vs run
χ² / ndf 1835 / 87
p0 5976 ± 4.618
6600
6400
6200
6000
5800
5600
5400

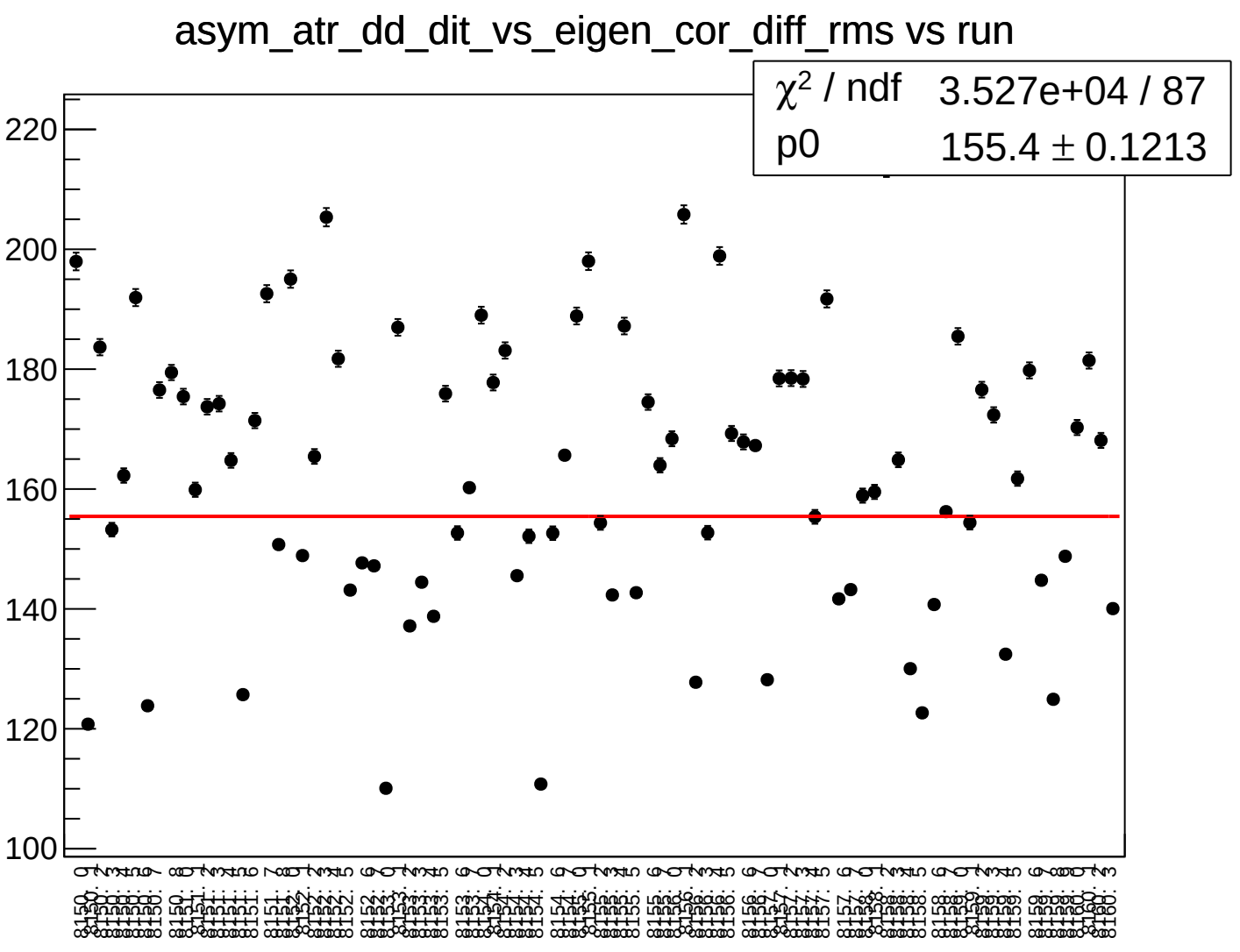

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 68.63 / 87
p0 9.735e−13 ± 4.458e−13
pull
Entries 88
Mean 69.61
Std Dev 0
pull1D
Entries 88
Mean 0.0662
Std Dev 0.8806

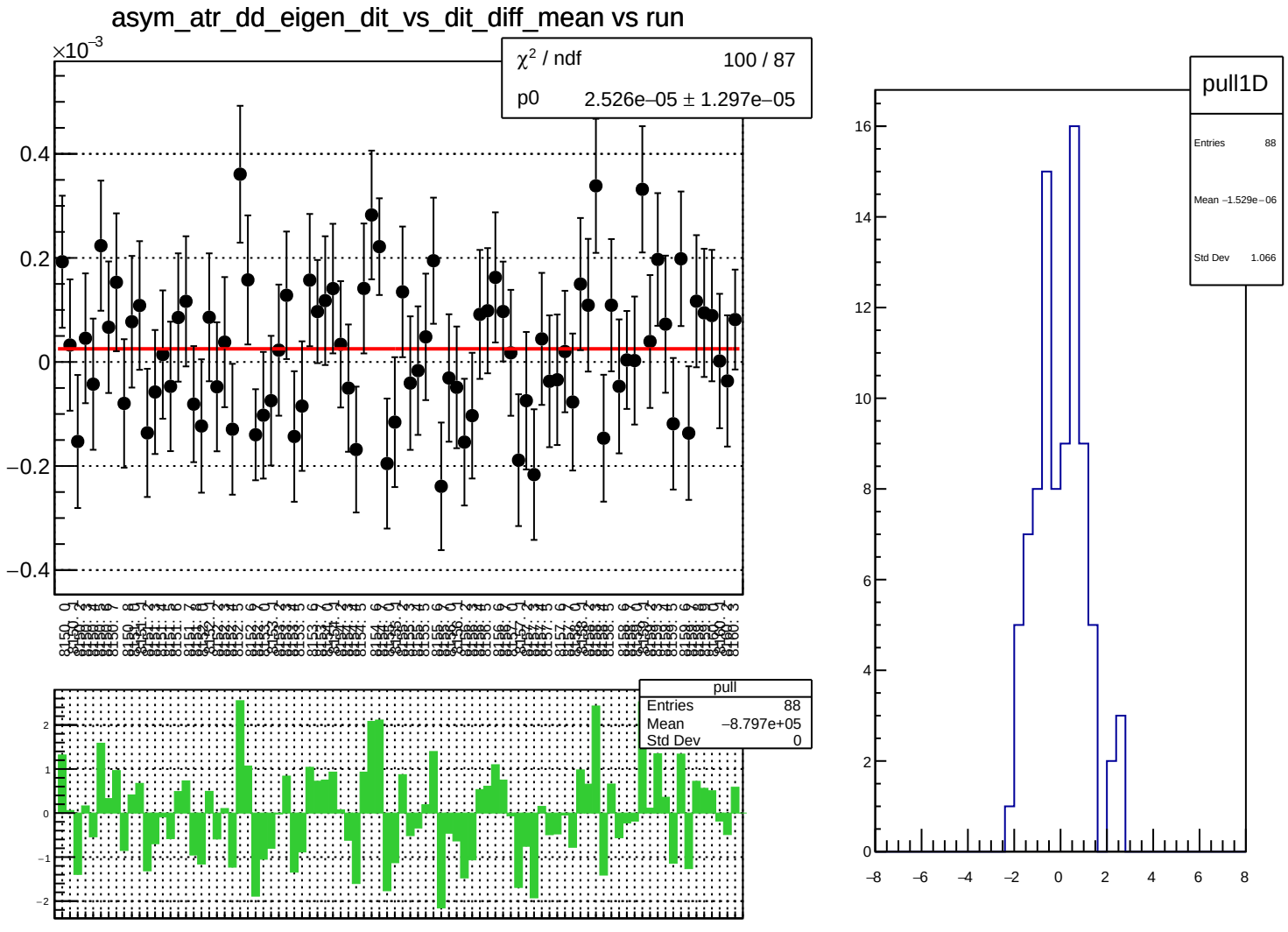

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.08e+05 / 87
p0 2.763e−10 ± 3.152e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

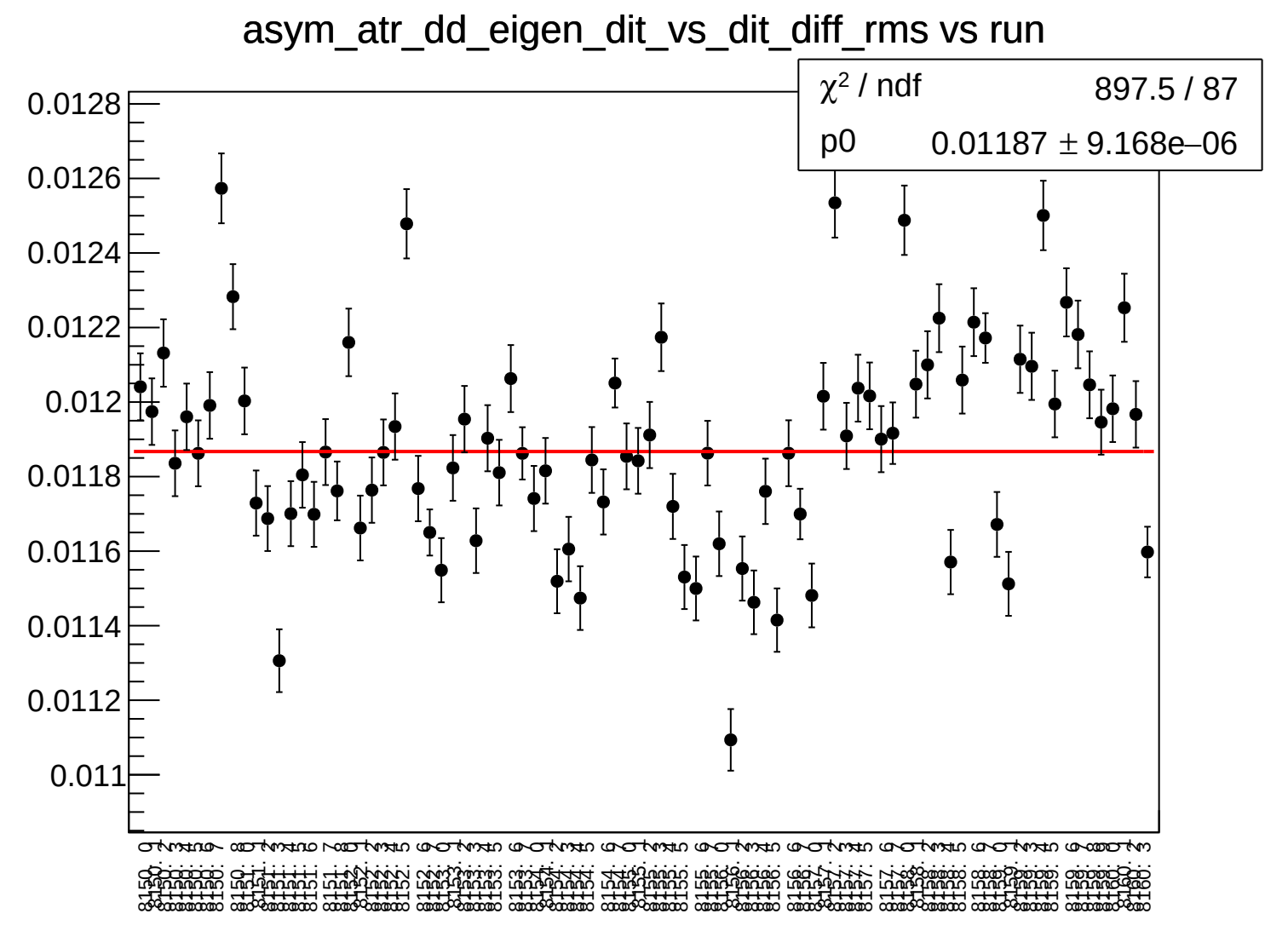

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.13 / 87
p0 0.2172 ± 0.1716
pull
Entries 88
Mean 71.07
Std Dev 0
pull1D
Entries 88
Mean 0.005128
Std Dev 1.029

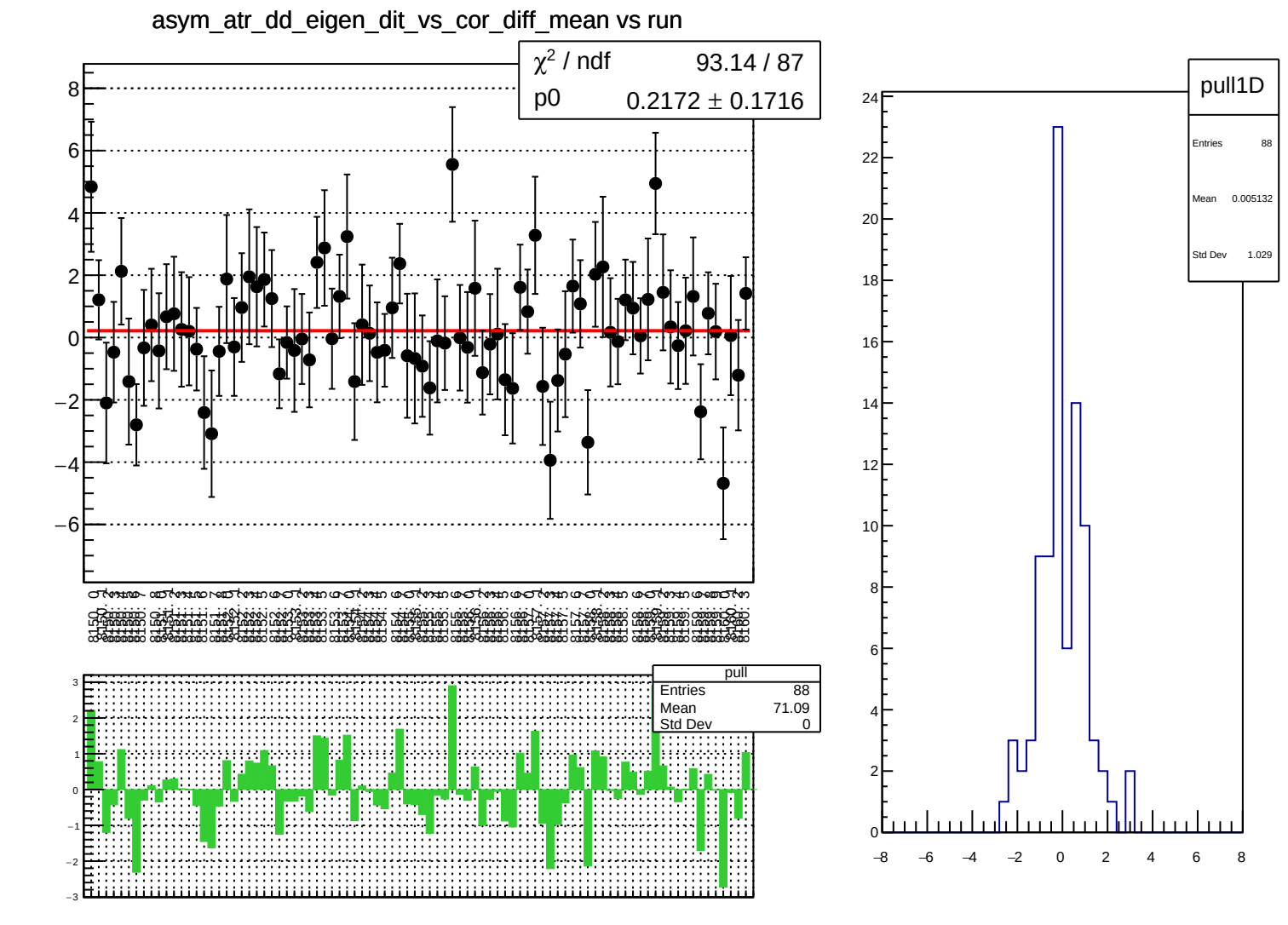

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.527e+04 / 87
p0 155.4 ± 0.1213
220
200
180
160
140
120
100

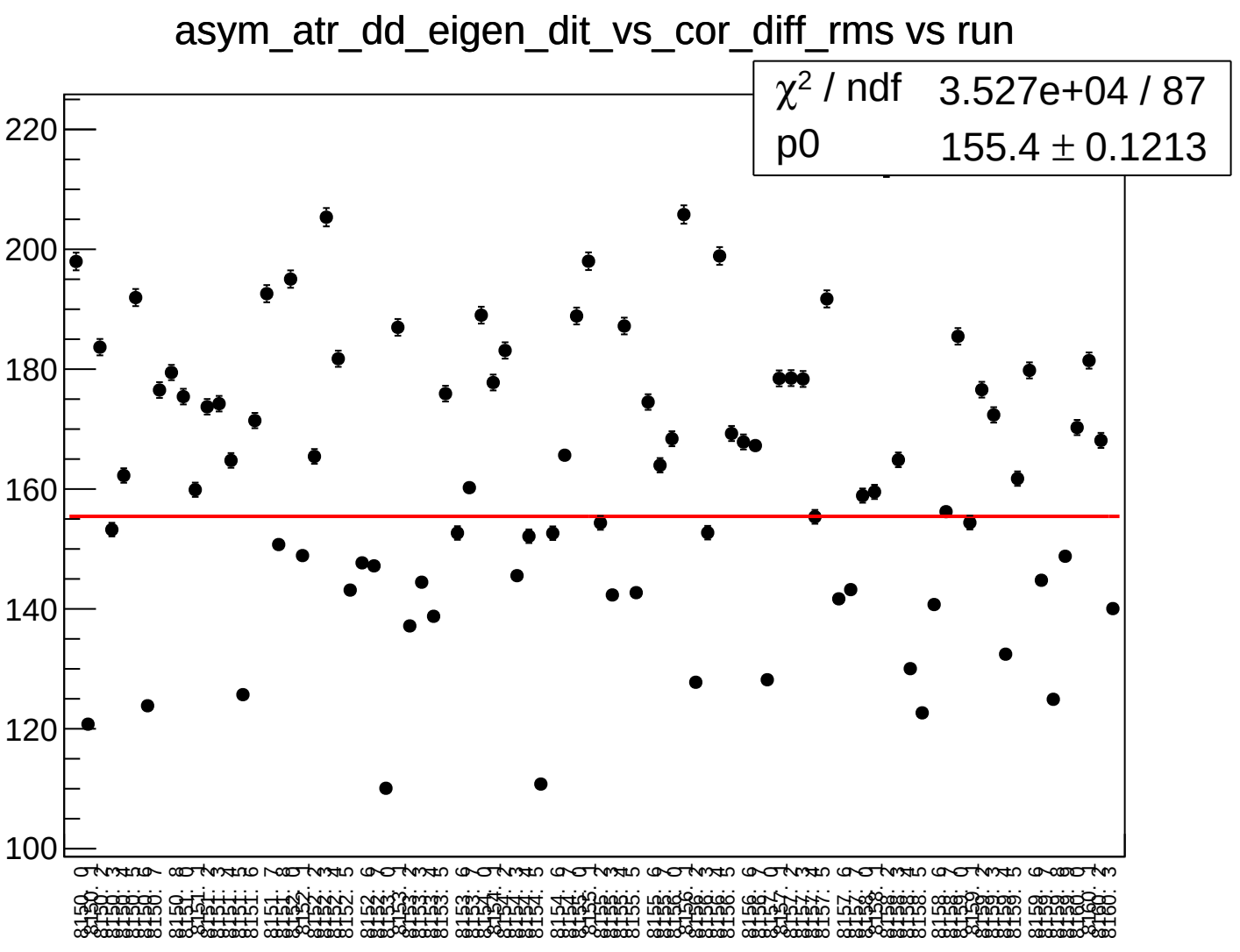

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.13 / 87
p0 0.2172 ± 0.1716
pull
Entries 88
Mean 71.07
Std Dev 0
pull1D
Entries 88
Mean 0.005128
Std Dev 1.029

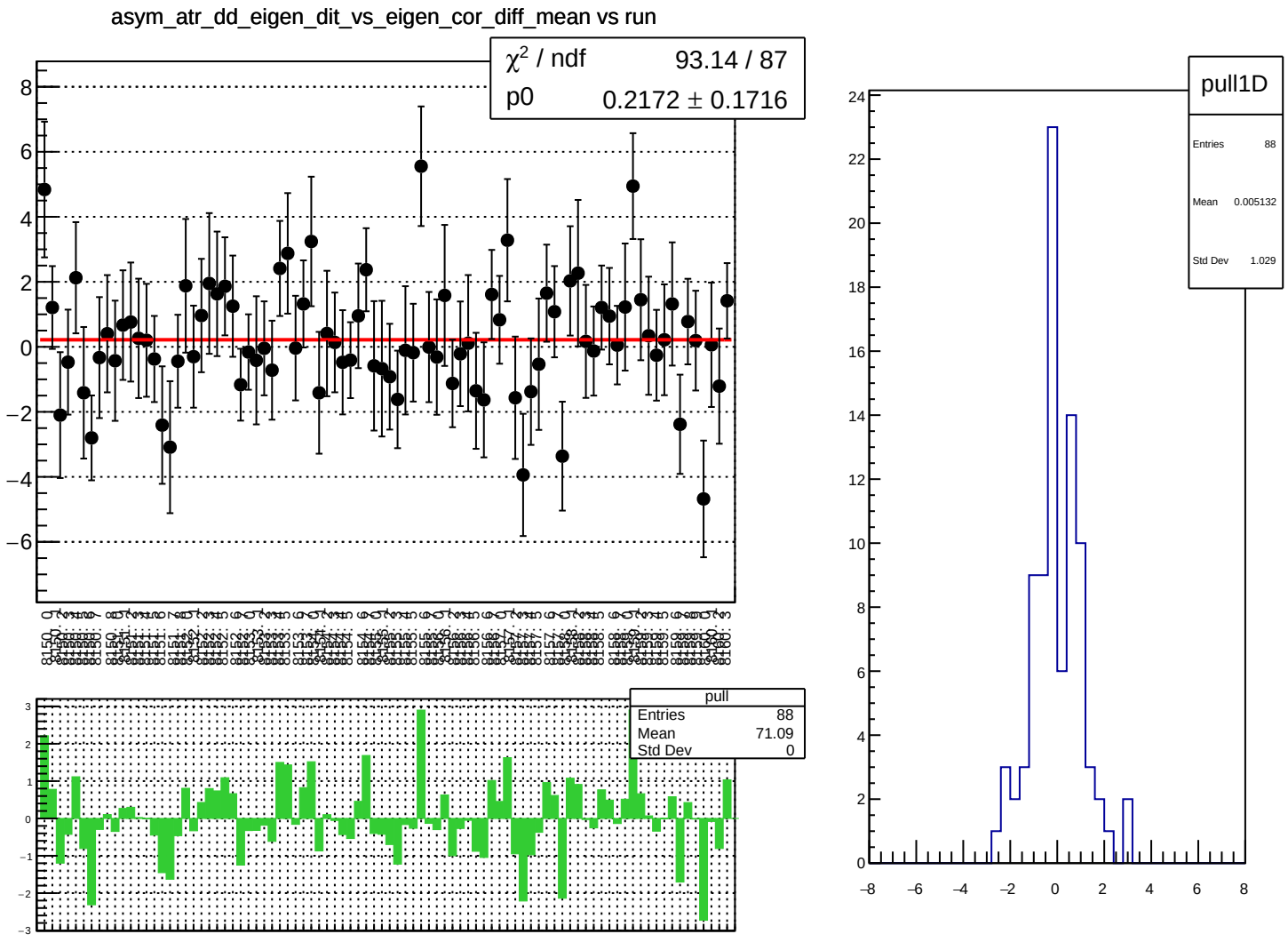

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.527e+04 / 87
p0 155.4 ± 0.1213
220
200
180
160
140
120
100

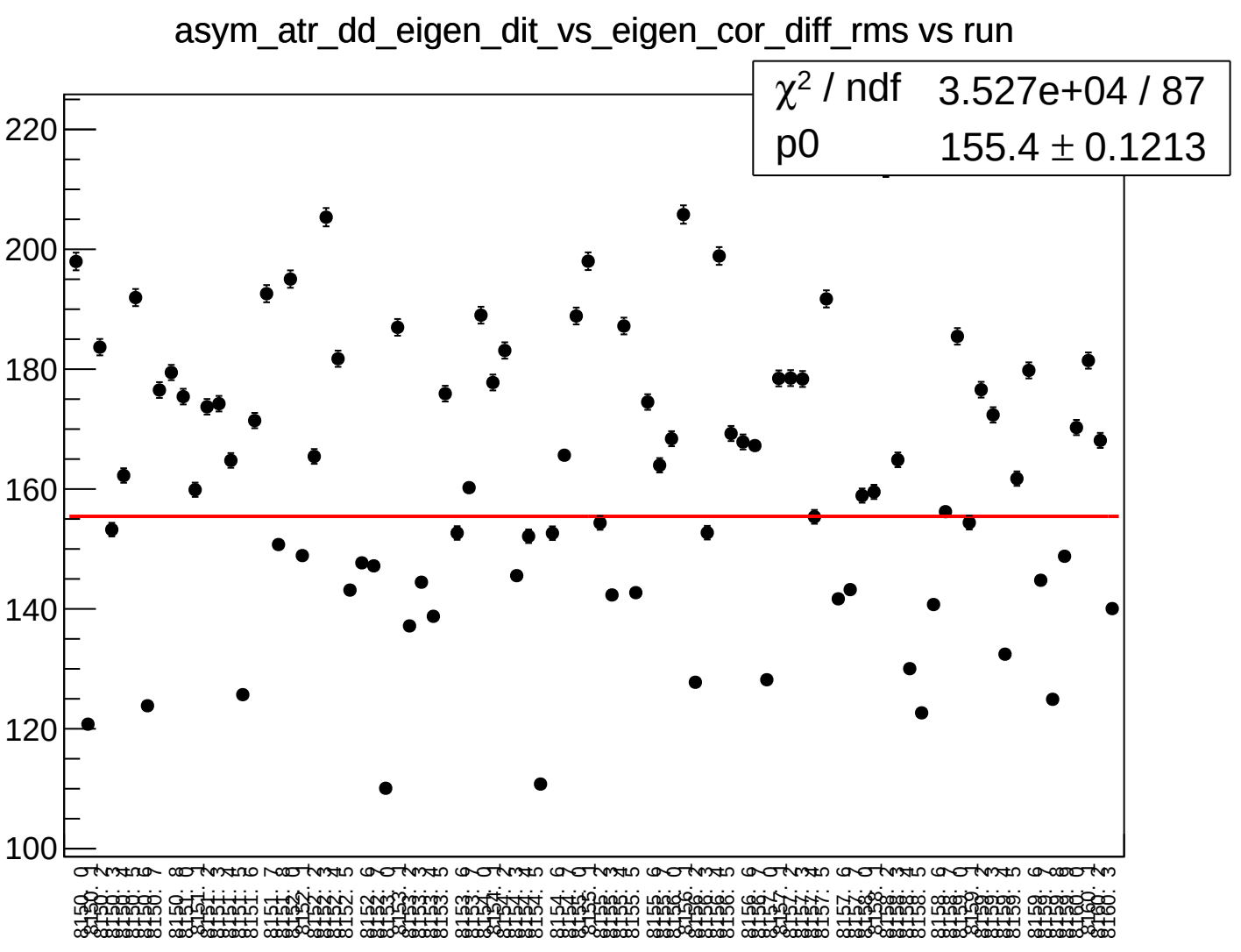

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100 / 87
p0 2.526e−05 ± 1.297e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 88
Mean −8.797e+05
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −1.529e−06
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

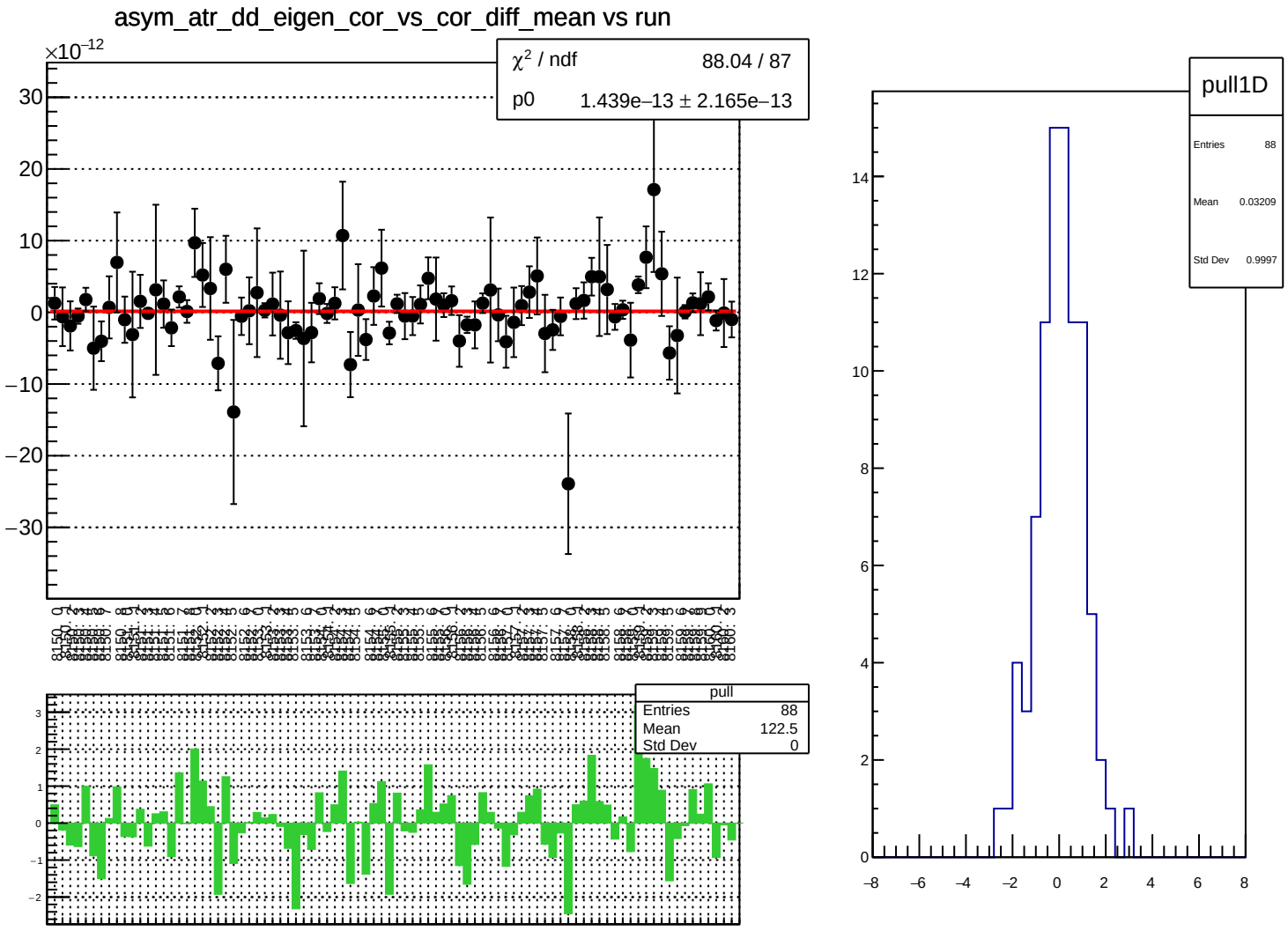

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 897.5 / 87
p0 0.01187 ± 9.168e–06
0.0128
0.0126
0.0124
0.0122
0.012
0.0118
0.0116
0.0114
0.0112
0.011

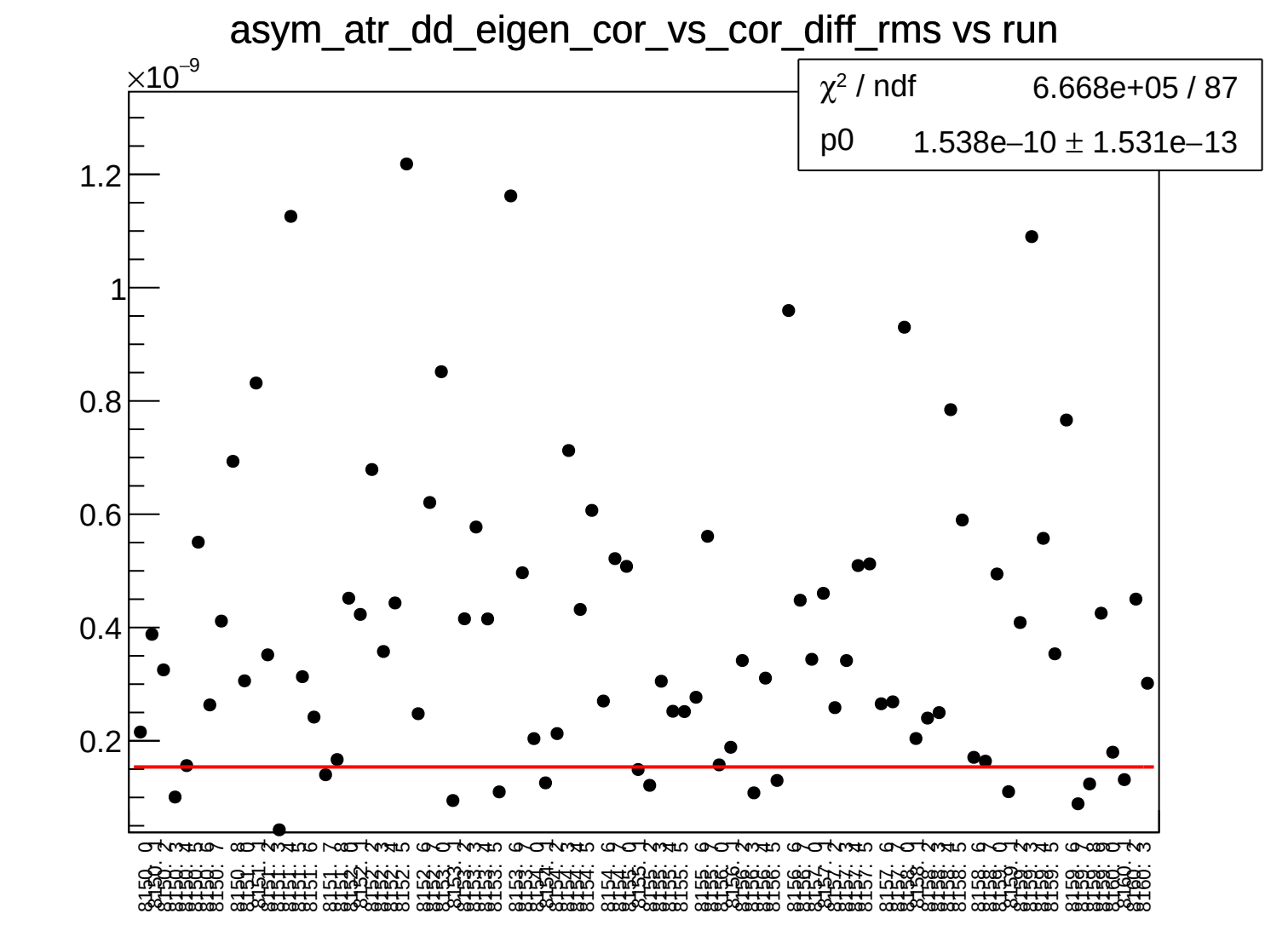

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.14 / 87
p0 0.2172 ± 0.1716
pull
Entries 88
Mean 71.09
Std Dev 0
pull1D
Entries 88
Mean 0.005132
Std Dev 1.029

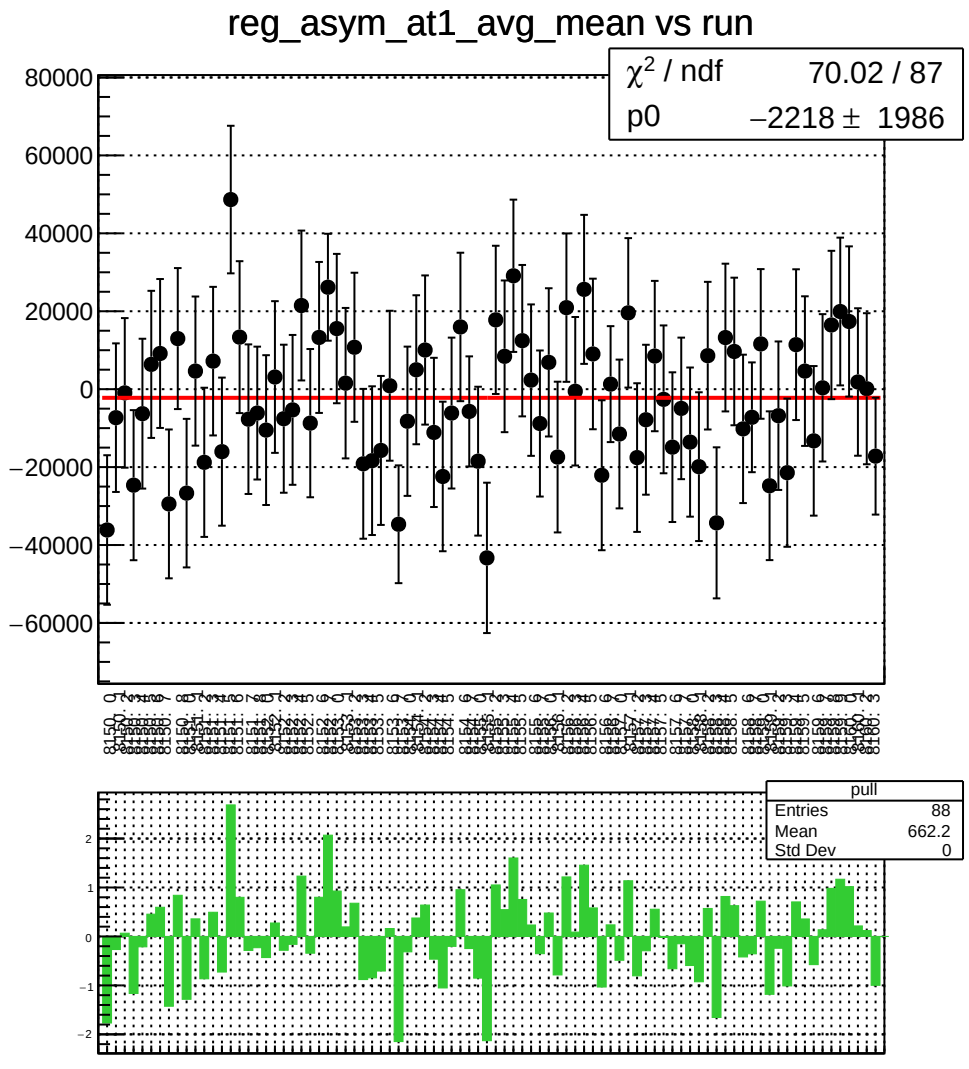

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.527e+04 / 87
p0 155.4 ± 0.1213
220
200
180
160
140
120
100

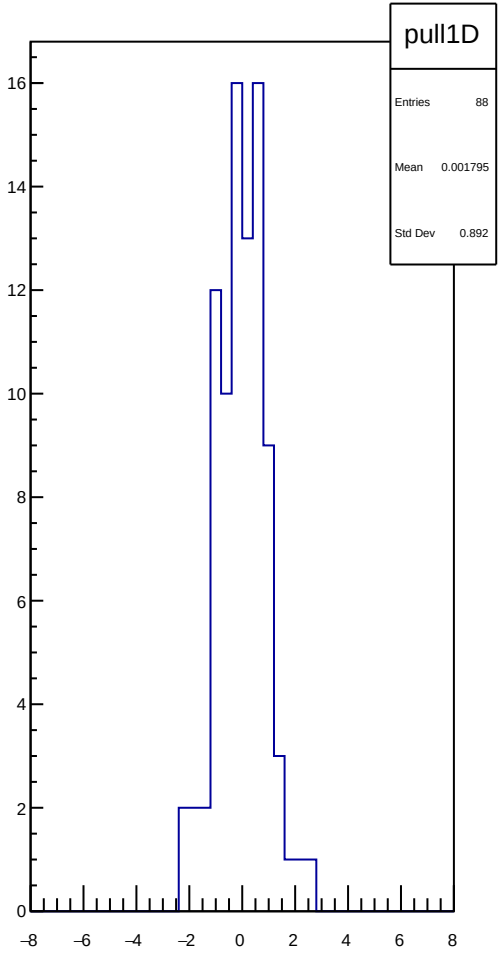

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.14 / 87
p0 0.2172 ± 0.1716
pull
Entries 88
Mean 71.09
Std Dev 0
pull1D
Entries 88
Mean 0.005132
Std Dev 1.029

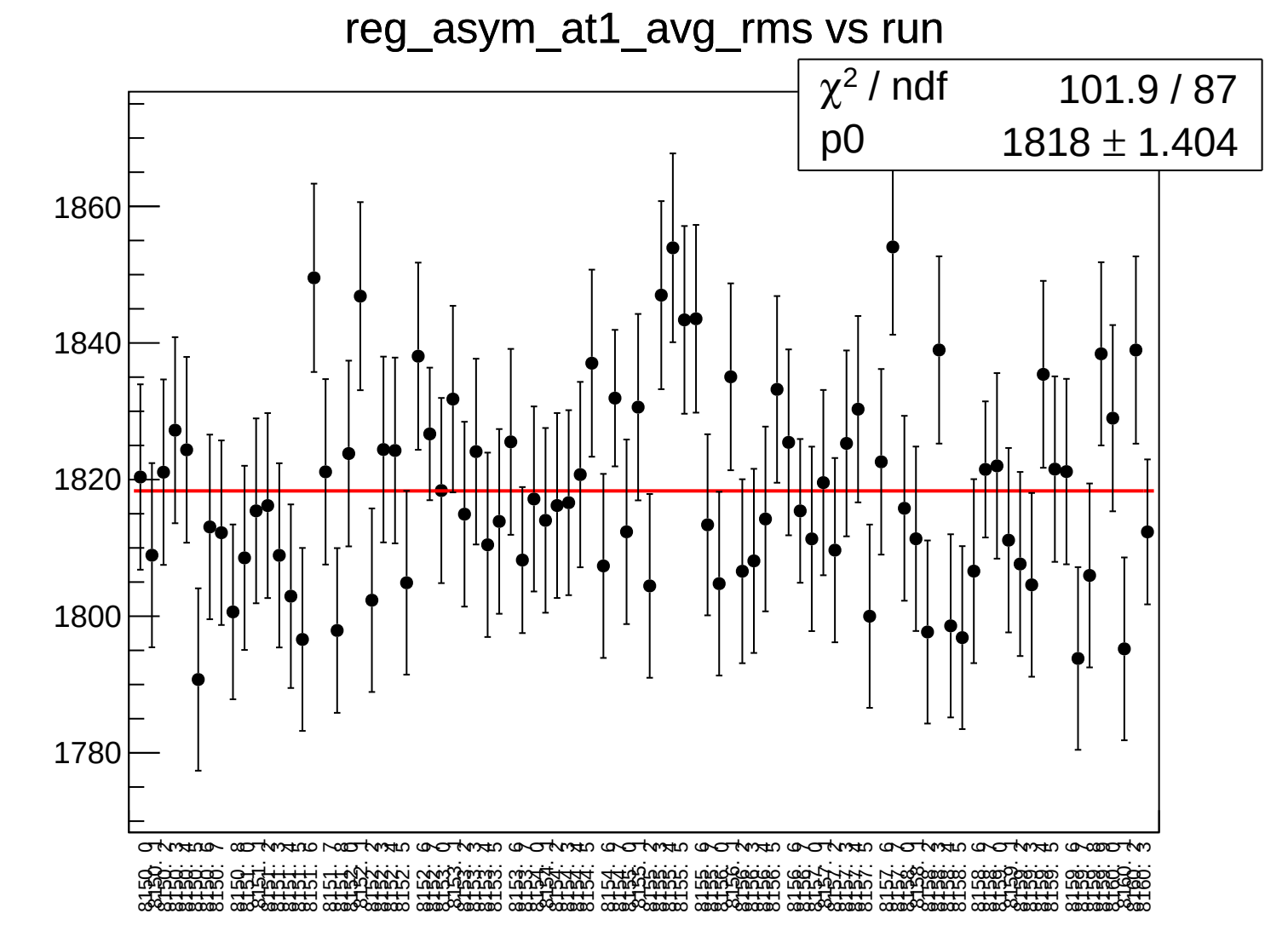

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.527e+04 / 87
p0 155.4 ± 0.1213
220
200
180
160
140
120
100

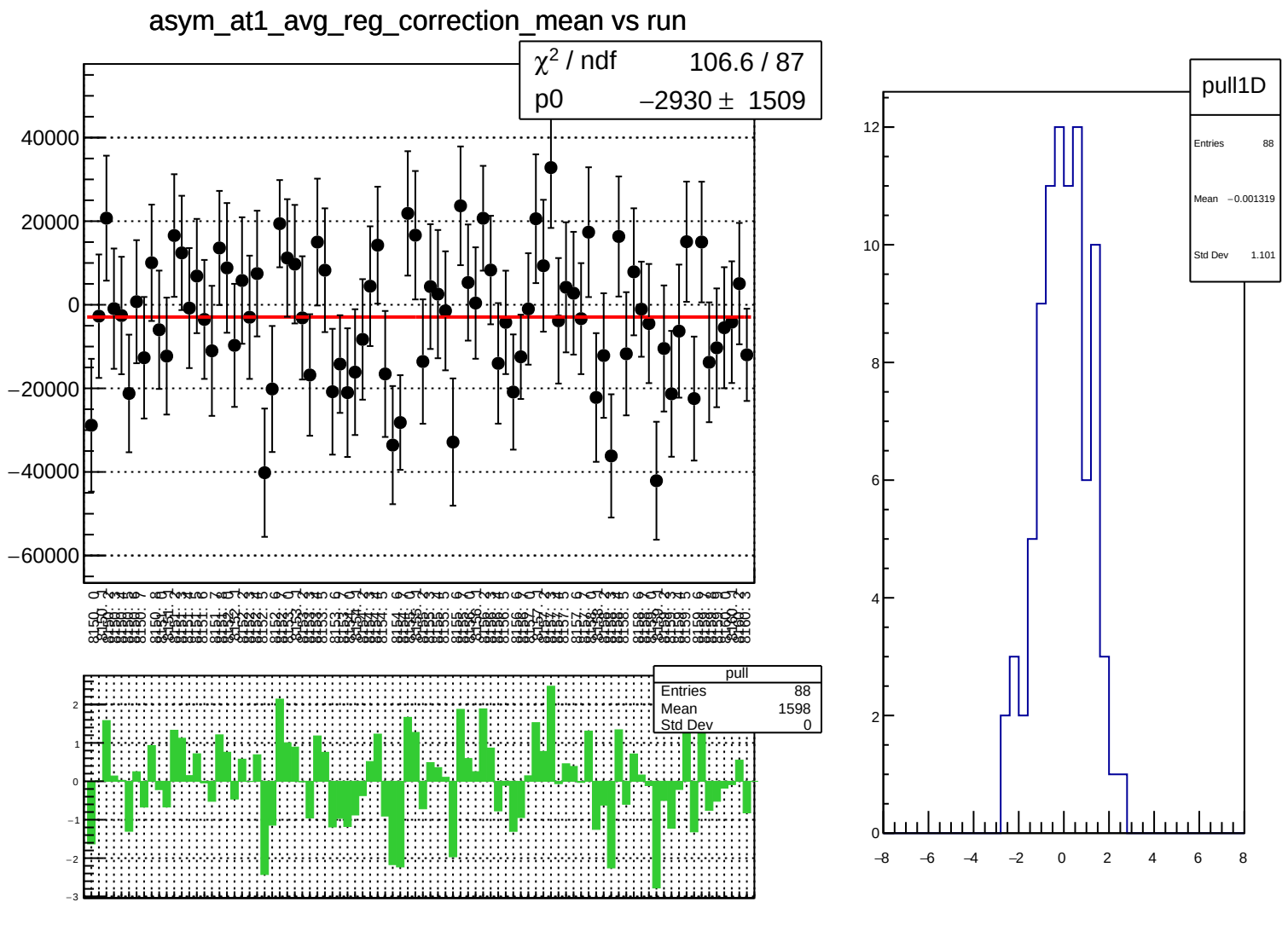

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.04 / 87
p0 1.439e−13 ± 2.165e−13
pull
Entries 88
Mean 122.5
Std Dev 0
pull1D
Entries 88
Mean 0.03209
Std Dev 0.9997

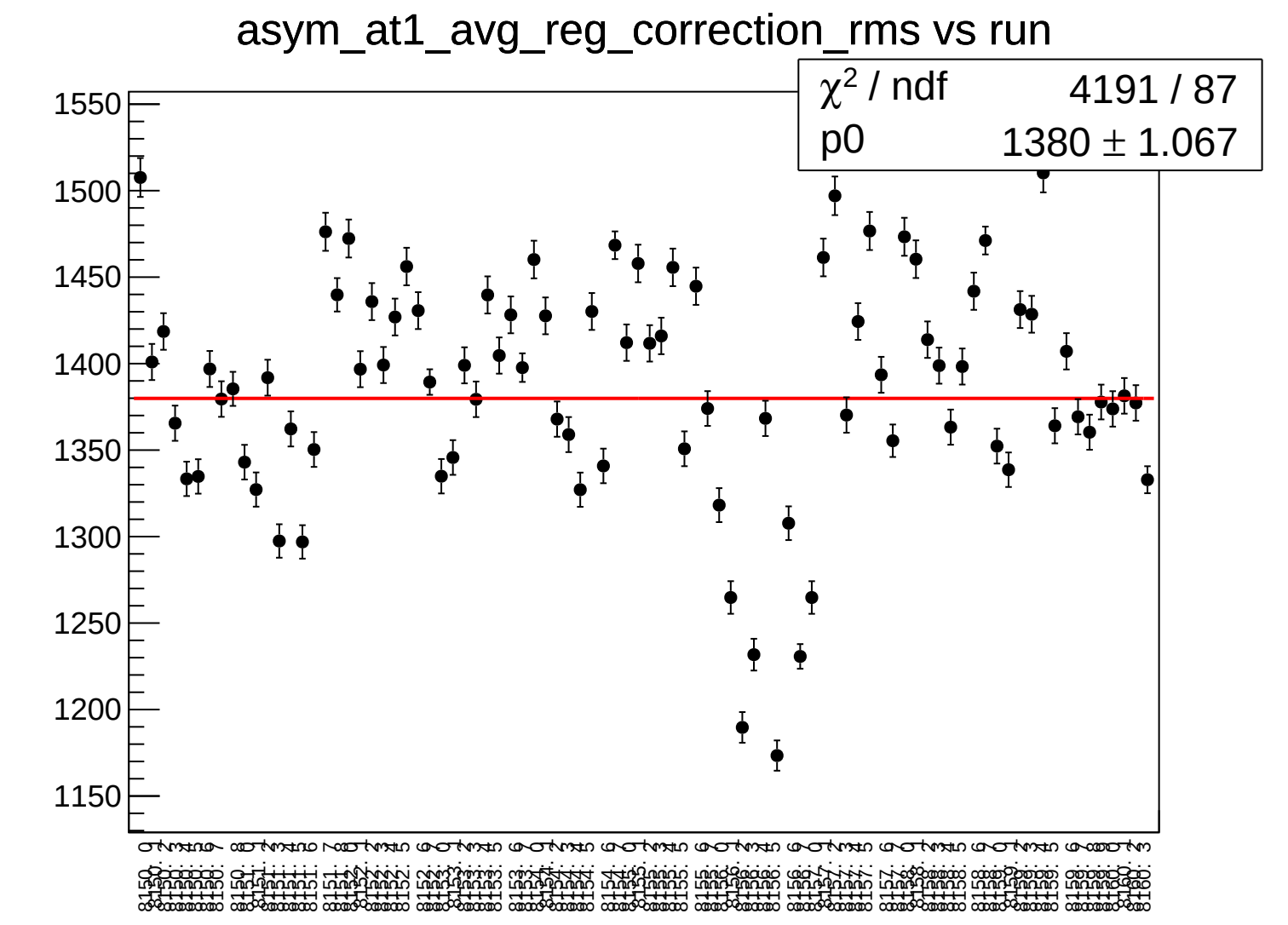

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.668e+05 / 87
p0 1.538e−10 ± 1.531e−13
1.2
1
0.8
0.6
0.4
0.2

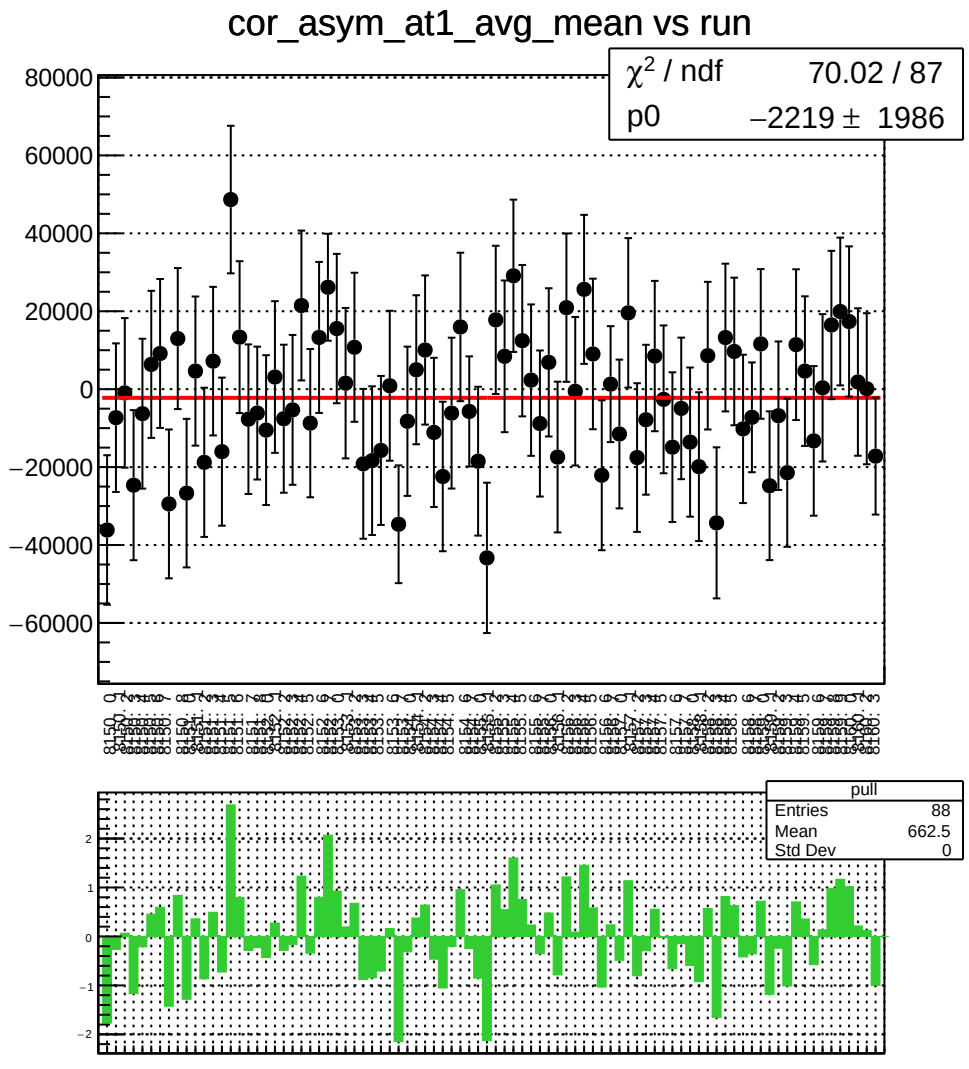

reg_asym_at1_avg_mean vs run
χ² / ndf 70.02 / 87
p0 −2218 ± 1986
pull
Entries 88
Mean 662.2
Std Dev 0

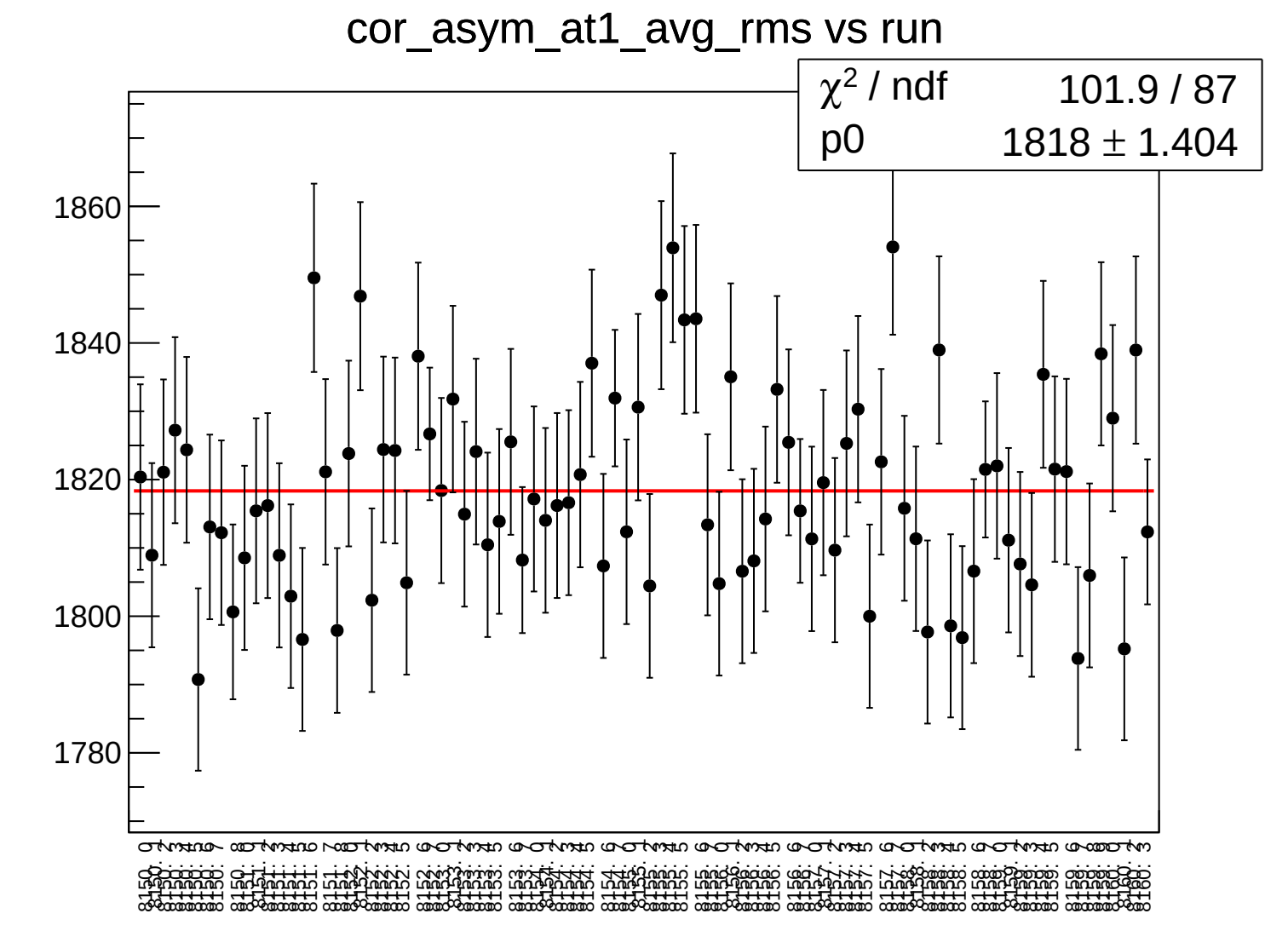

pull1D
Entries 88
Mean 0.001795
Std Dev 0.892

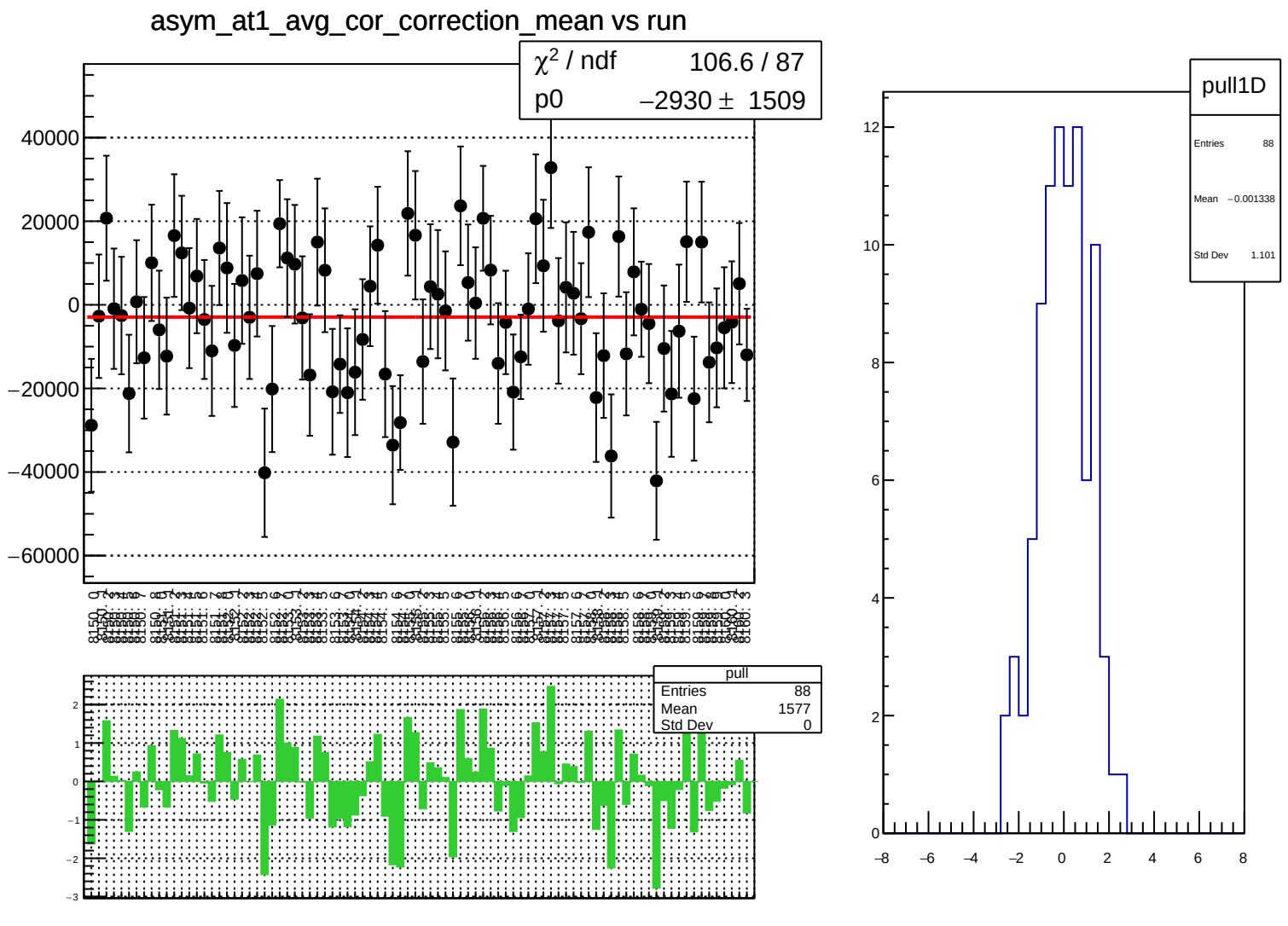

reg_asym_at1_avg_rms vs run
χ^2 / ndf 101.9 / 87
p0 1818 ± 1.404
1860
1840
1820
1800
1780

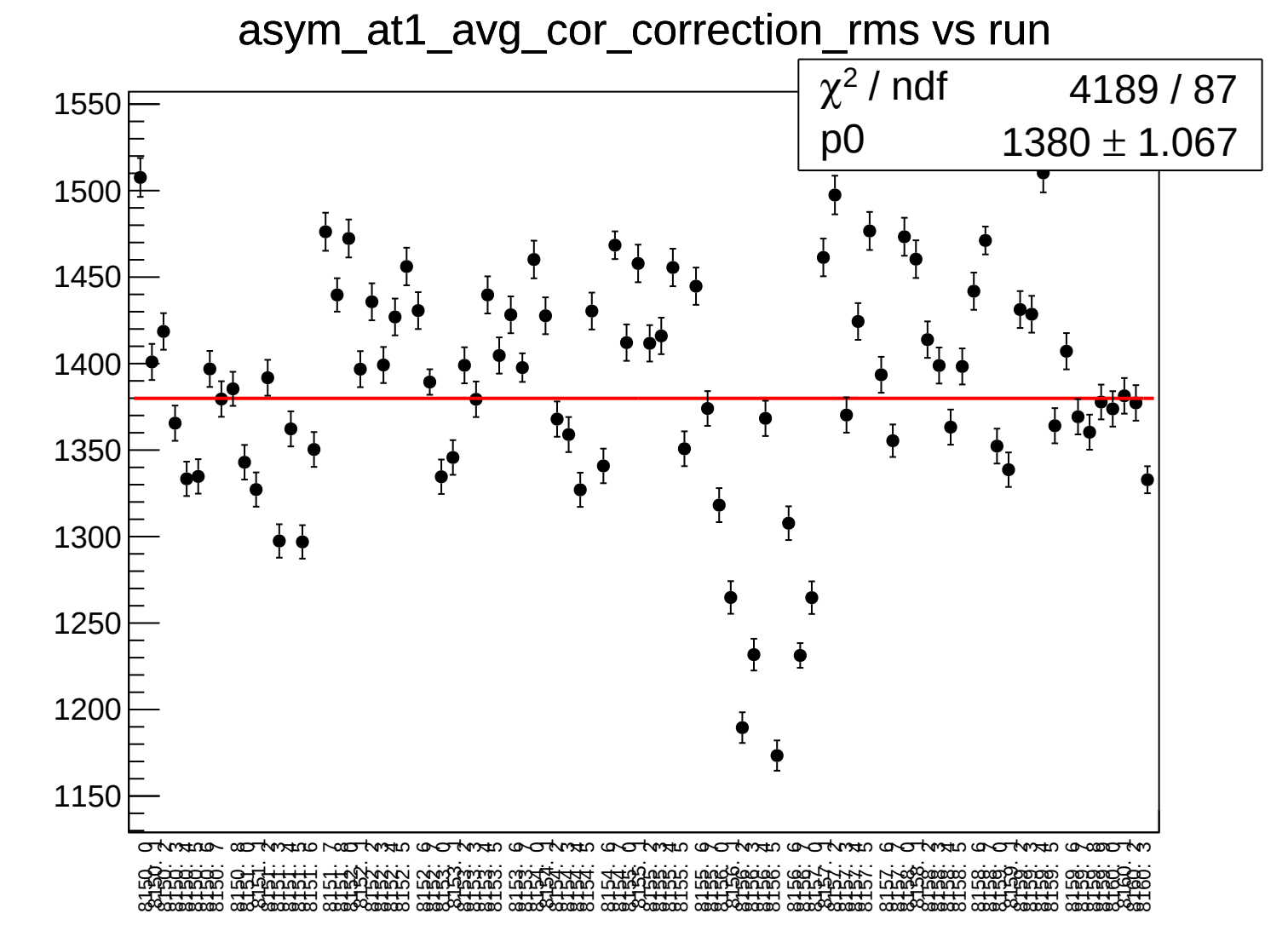

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 106.6 / 87
p0 −2930 ± 1509
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1598
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.001319
Std Dev 1.101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

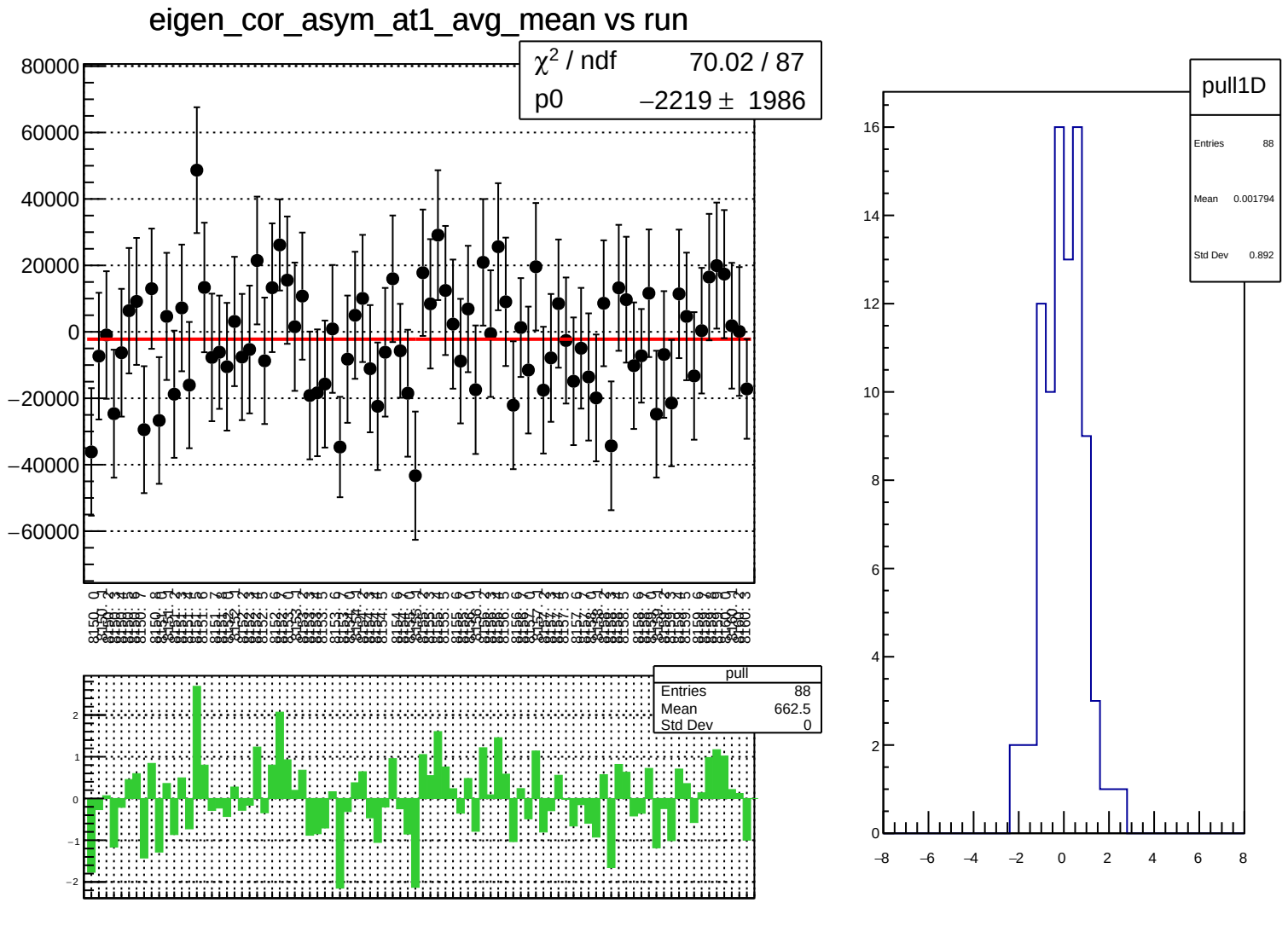

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 4191 / 87
p0 1380 ± 1.067
1550
1500
1450
1400
1350
1300
1250
1200
1150

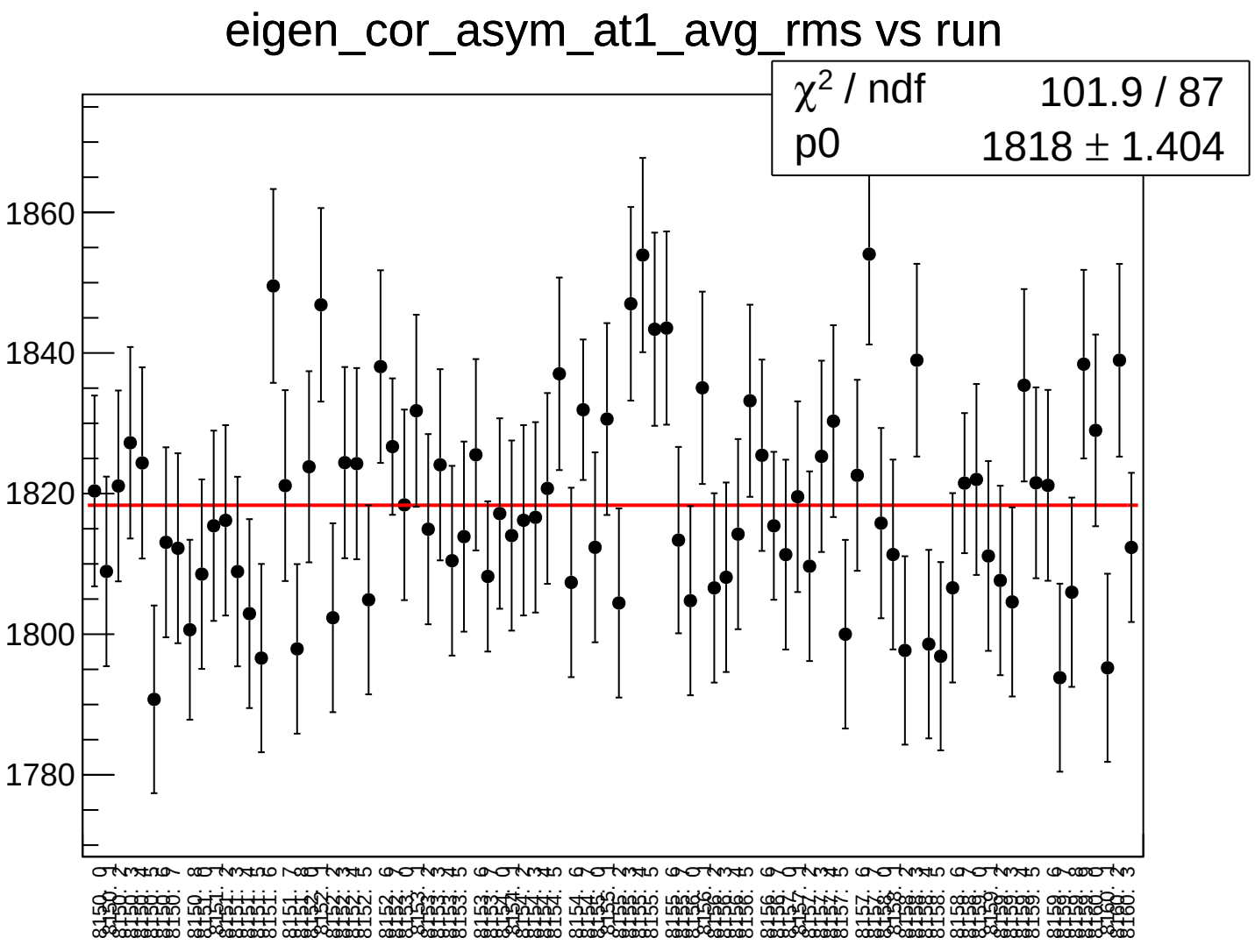

cor_asym_at1_avg_mean vs run
χ² / ndf 70.02 / 87
p0 −2219 ± 1986
pull
Entries 88
Mean 662.5
Std Dev 0
pull1D
Entries 88
Mean 0.001794
Std Dev 0.892

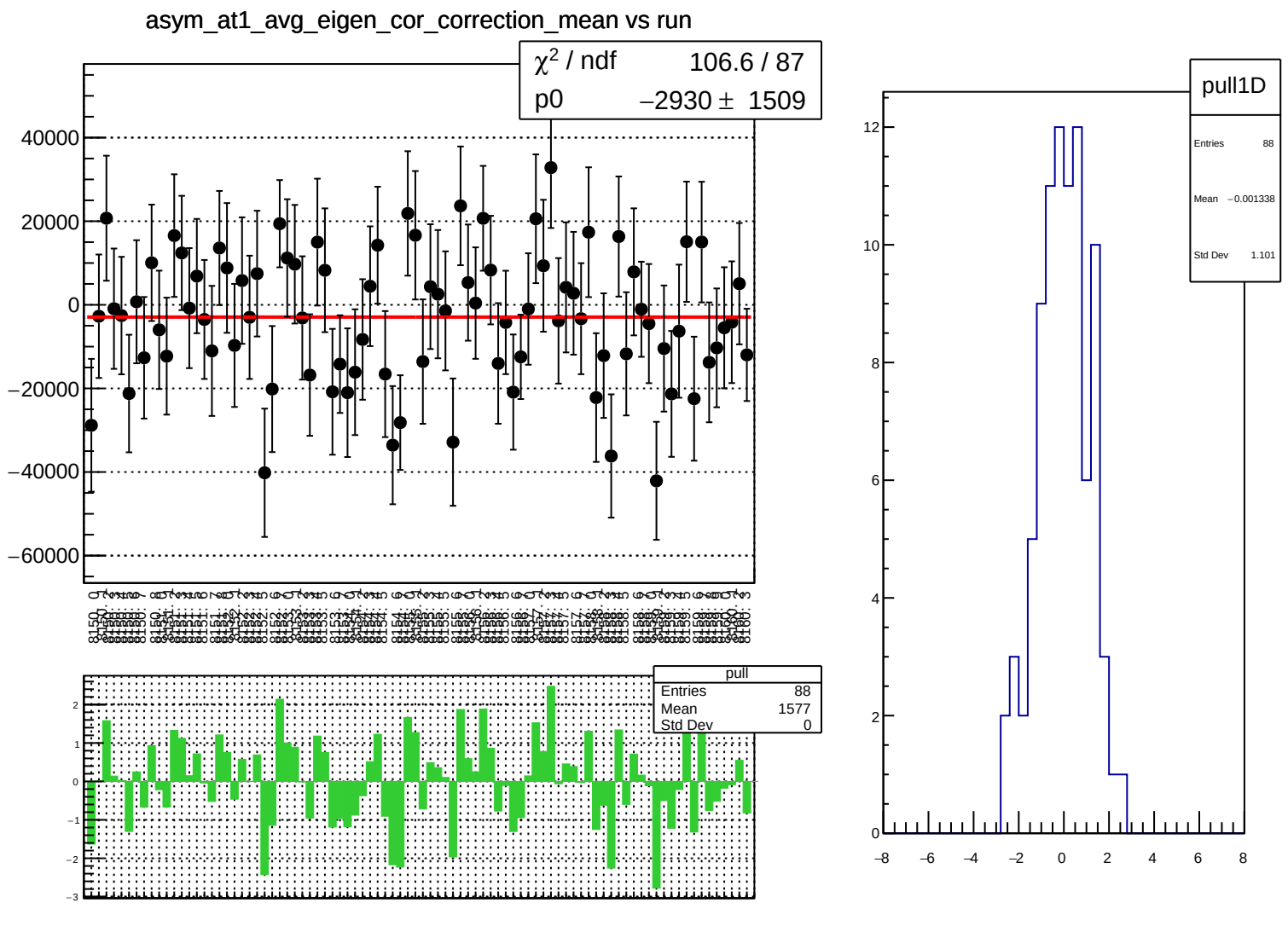

cor_asym_at1_avg_rms vs run
χ^2 / ndf 101.9 / 87
p0 1818 ± 1.404
1860
1840
1820
1800
1780

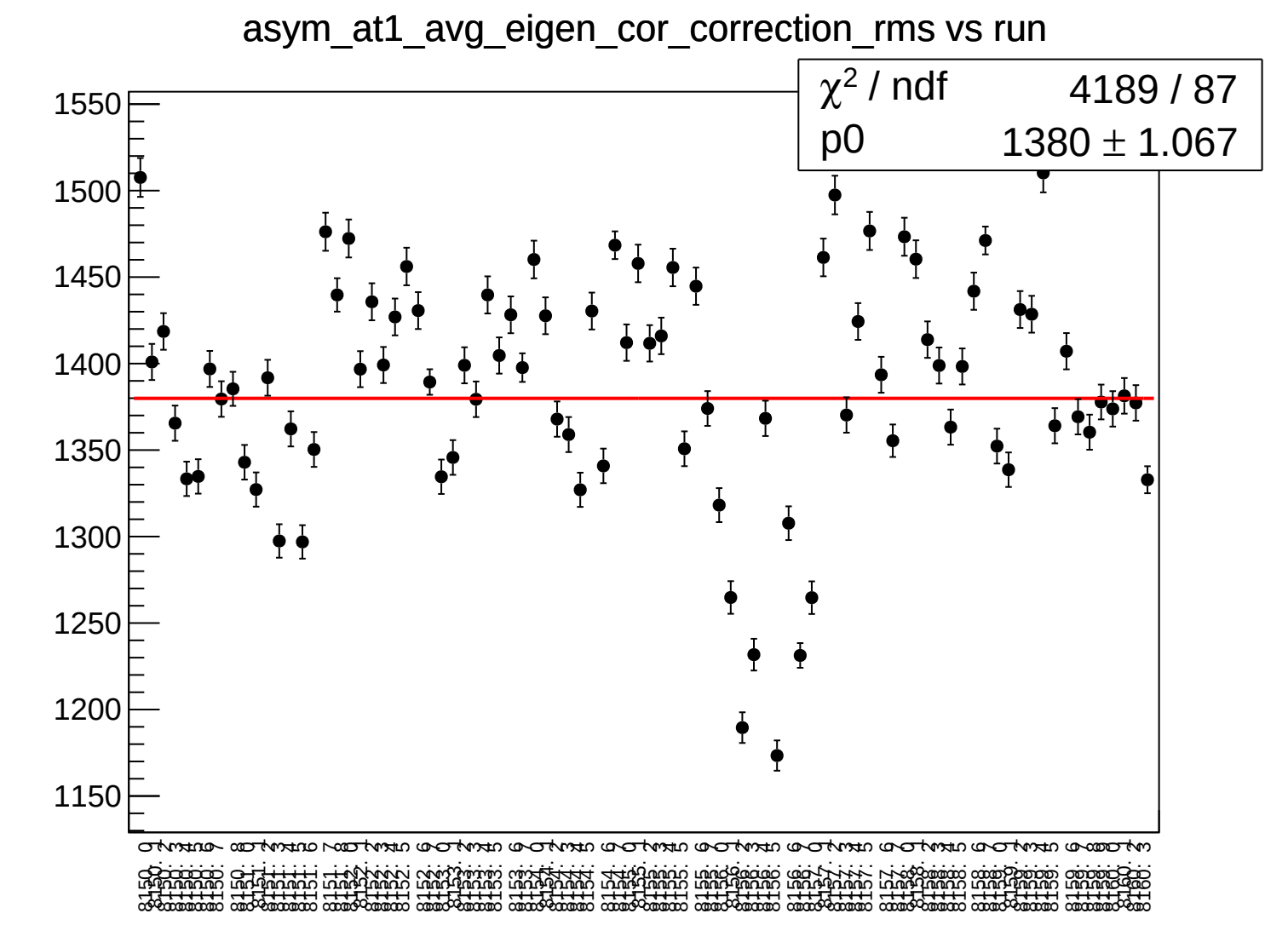

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 106.6 / 87
p0 −2930 ± 1509
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1577
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.001338
Std Dev 1.101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

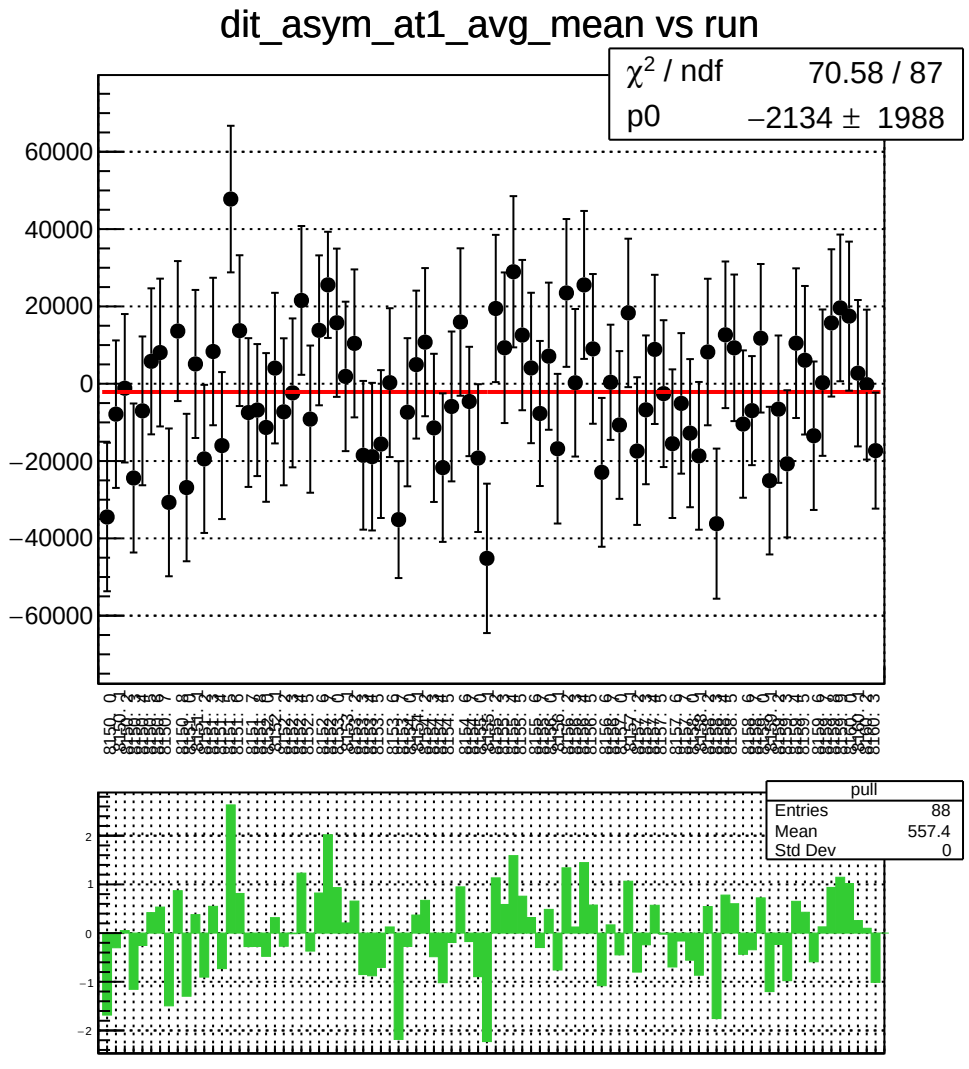

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 4189 / 87
p0 1380 ± 1.067
1550
1500
1450
1400
1350
1300
1250
1200
1150

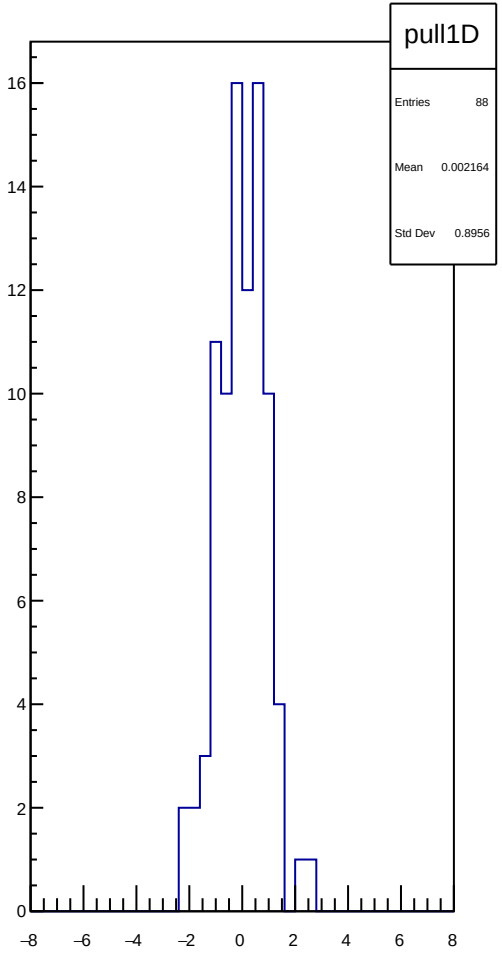

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 70.02 / 87
p0 −2219 ± 1986
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 662.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001794
Std Dev 0.892
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

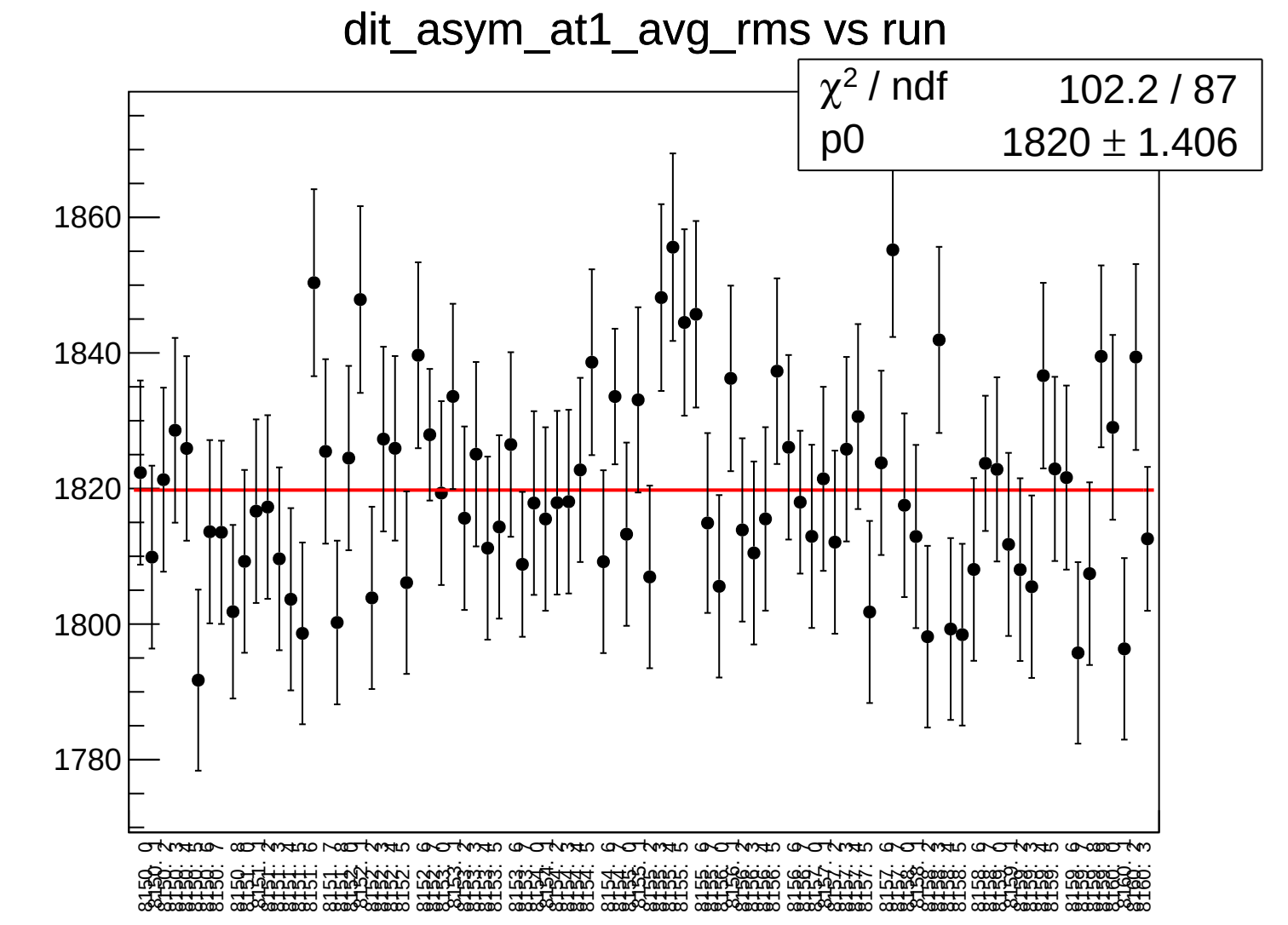

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 101.9 / 87
p0 1818 ± 1.404
1860
1840
1820
1800
1780

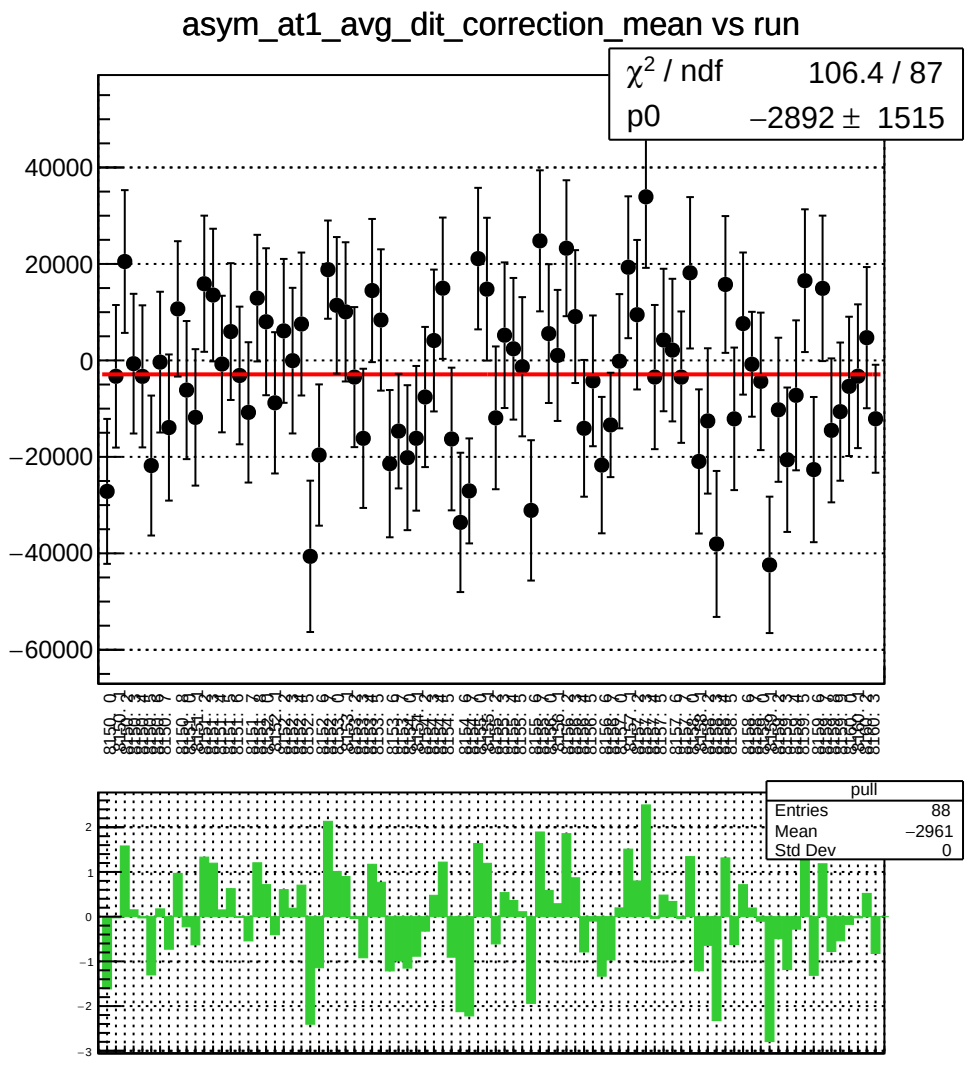

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 106.6 / 87
p0 −2930 ± 1509
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1577
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.001338
Std Dev 1.101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

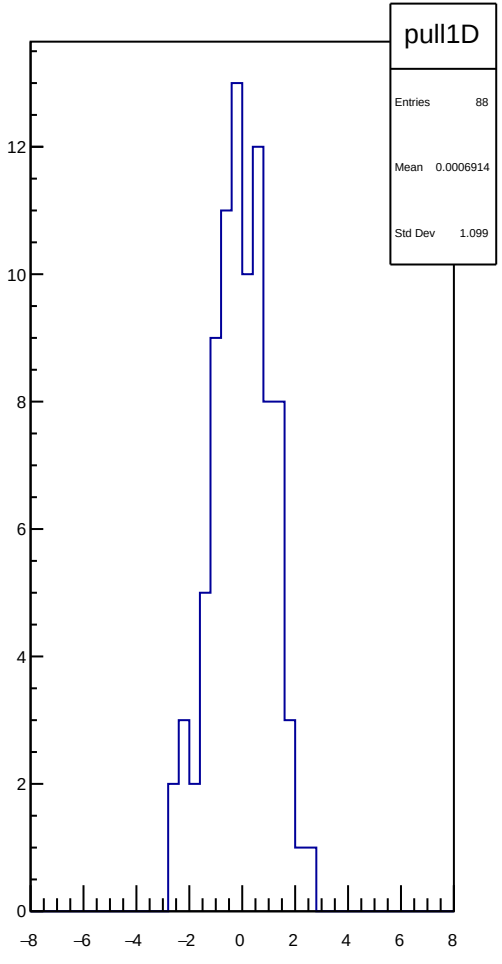

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 4189 / 87
p0 1380 ± 1.067
1550
1500
1450
1400
1350
1300
1250
1200
1150

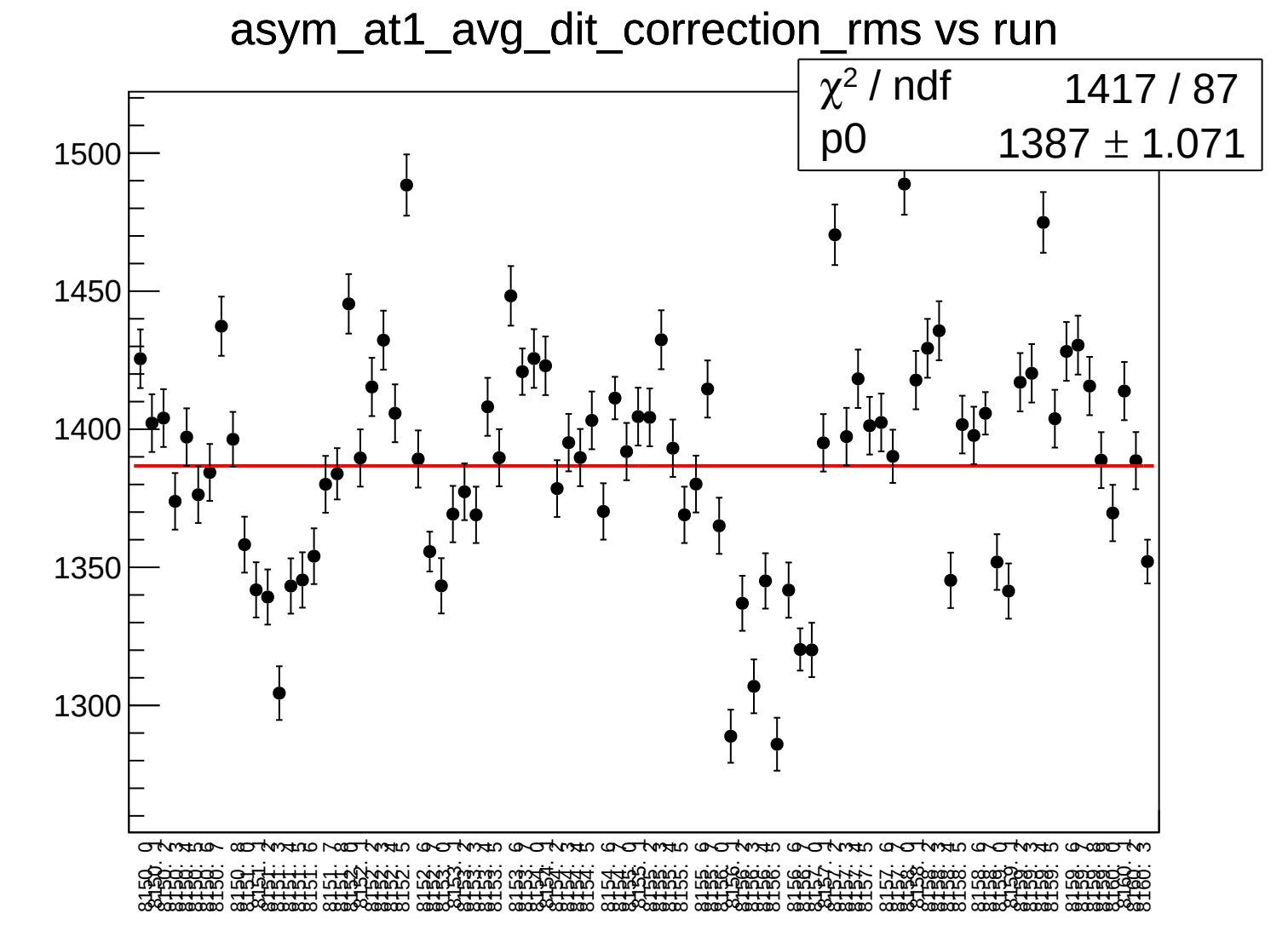

dit_asym_at1_avg_mean vs run
χ² / ndf 70.58 / 87
p0 −2134 ± 1988
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 557.4
Std Dev 0
2
1
0
−1
−2

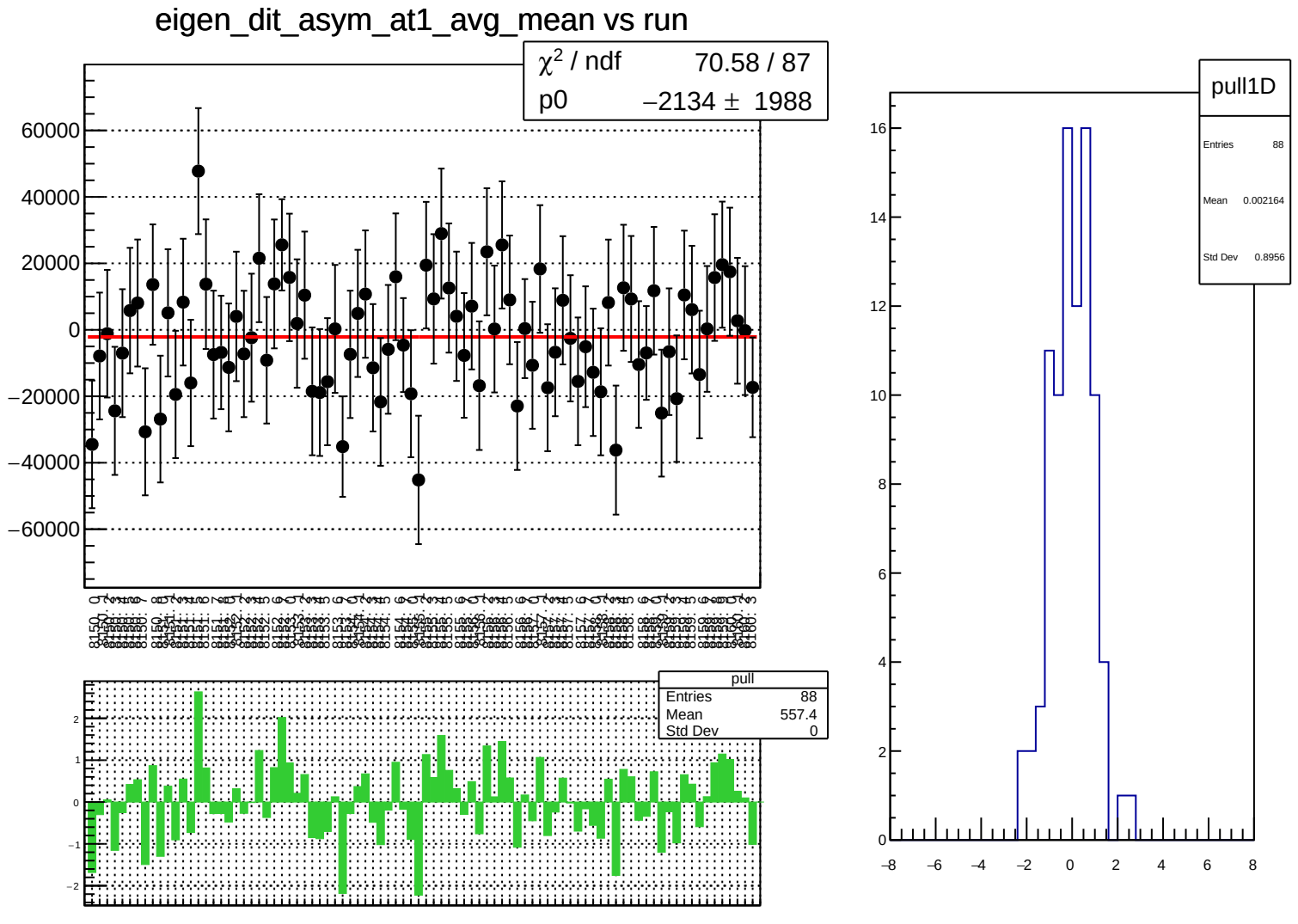

pull1D
Entries 88
Mean 0.002164
Std Dev 0.8956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

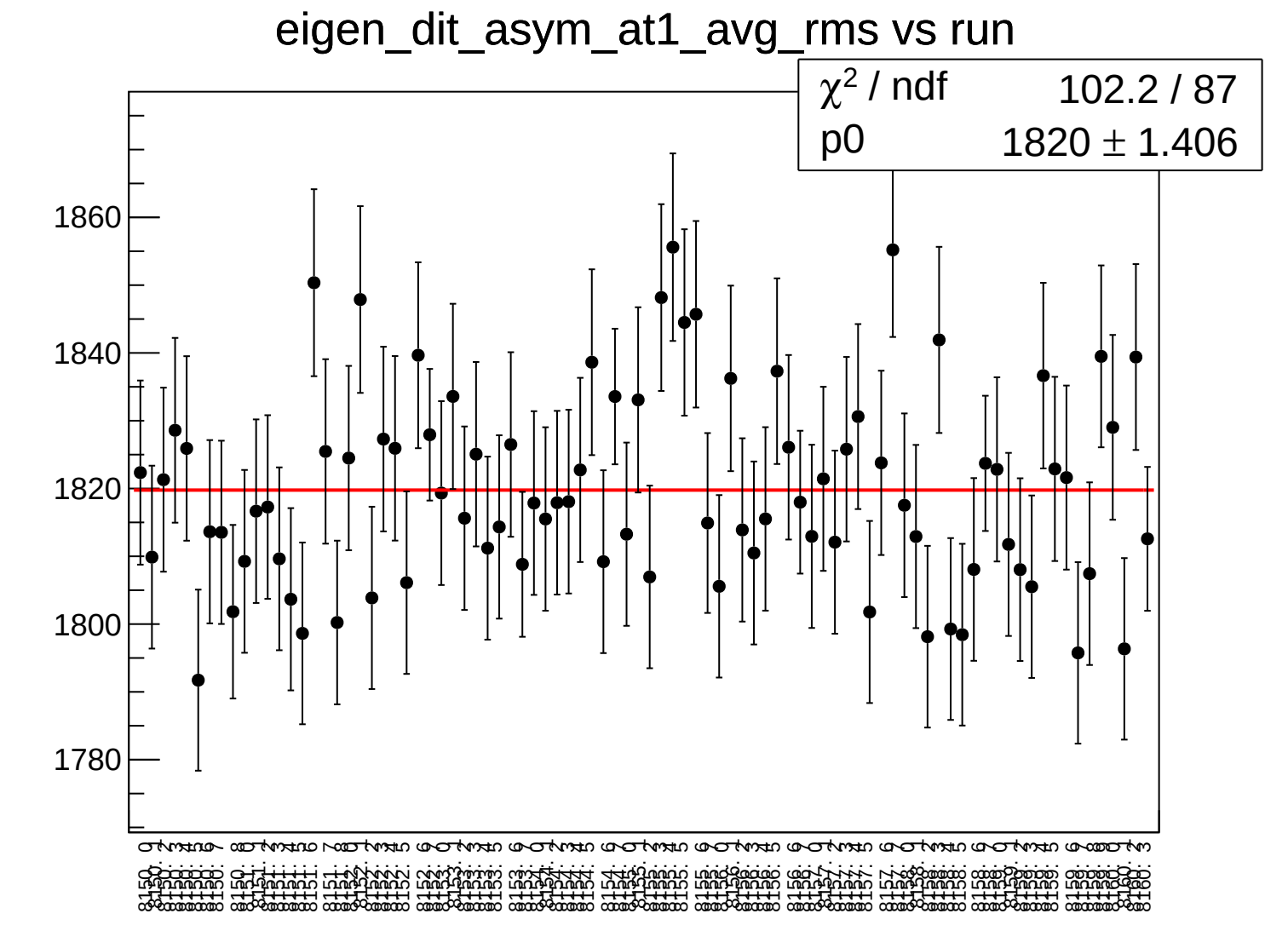

dit_asym_at1_avg_rms vs run
χ^2 / ndf 102.2 / 87
p0 1820 ± 1.406
1860
1840
1820
1800
1780

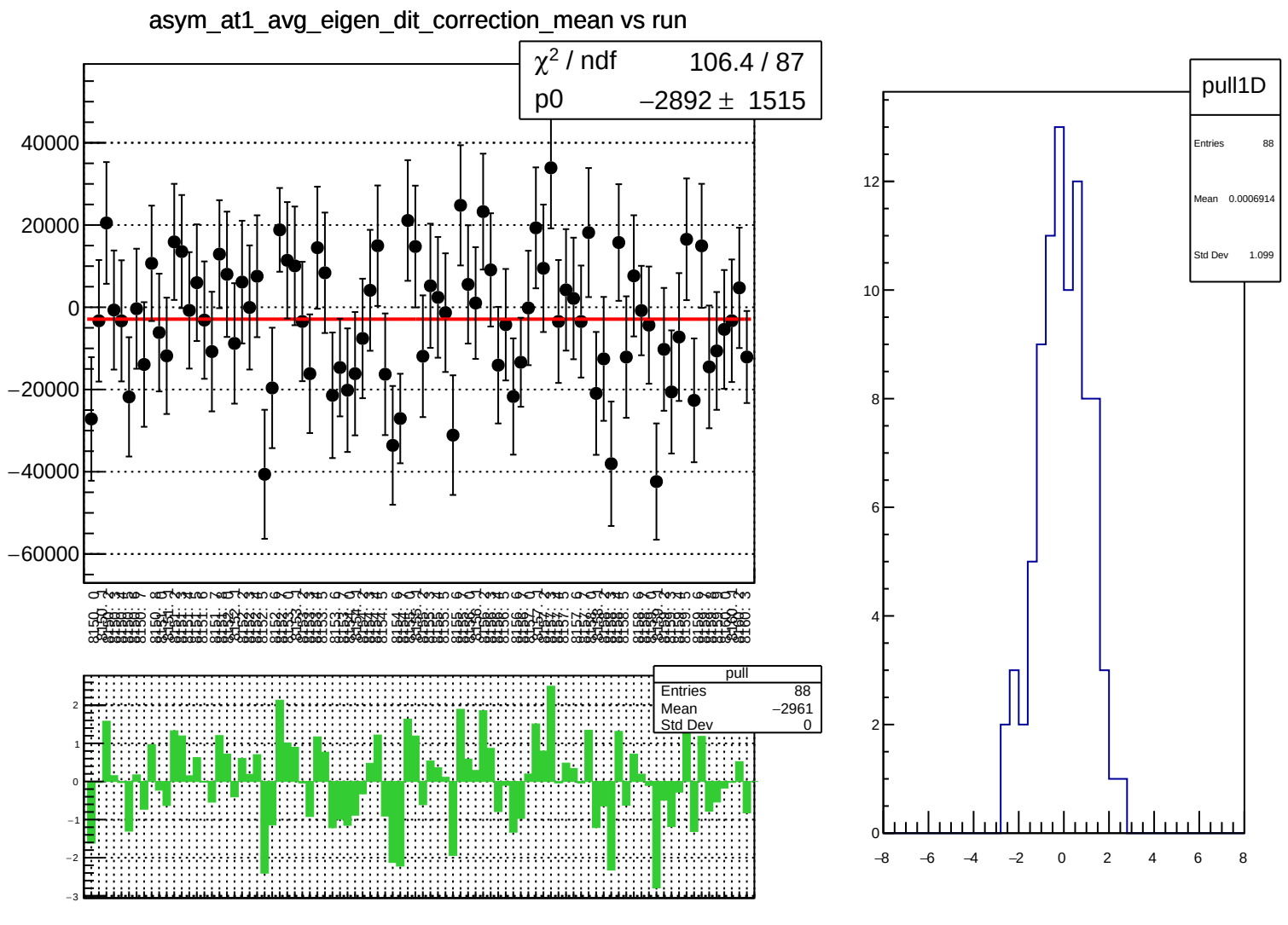

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 106.4 / 87
p0 −2892 ± 1515
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −2961
Std Dev 0
2
1
0
−1
−2
−3

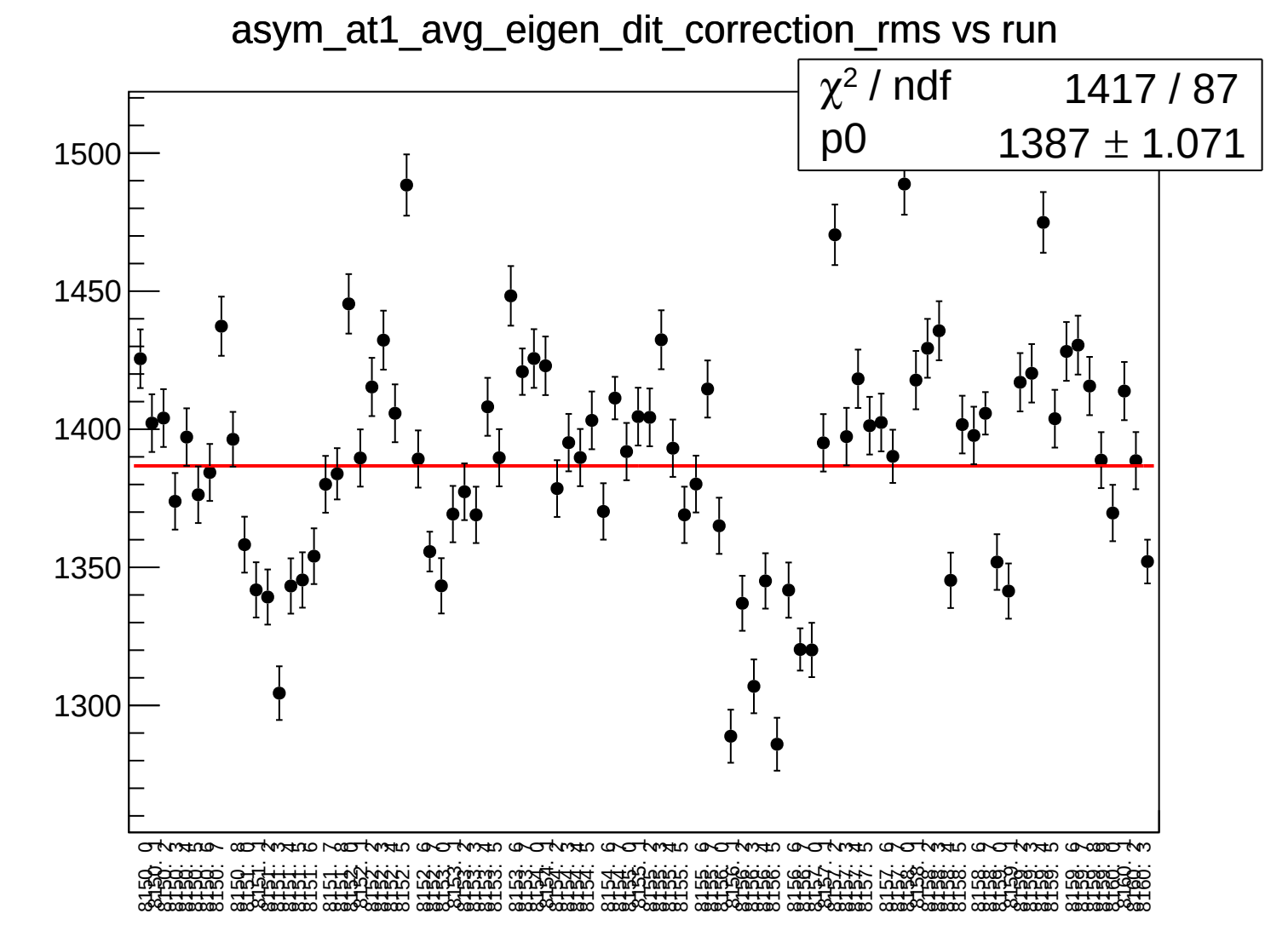

pull1D
Entries 88
Mean 0.0006914
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

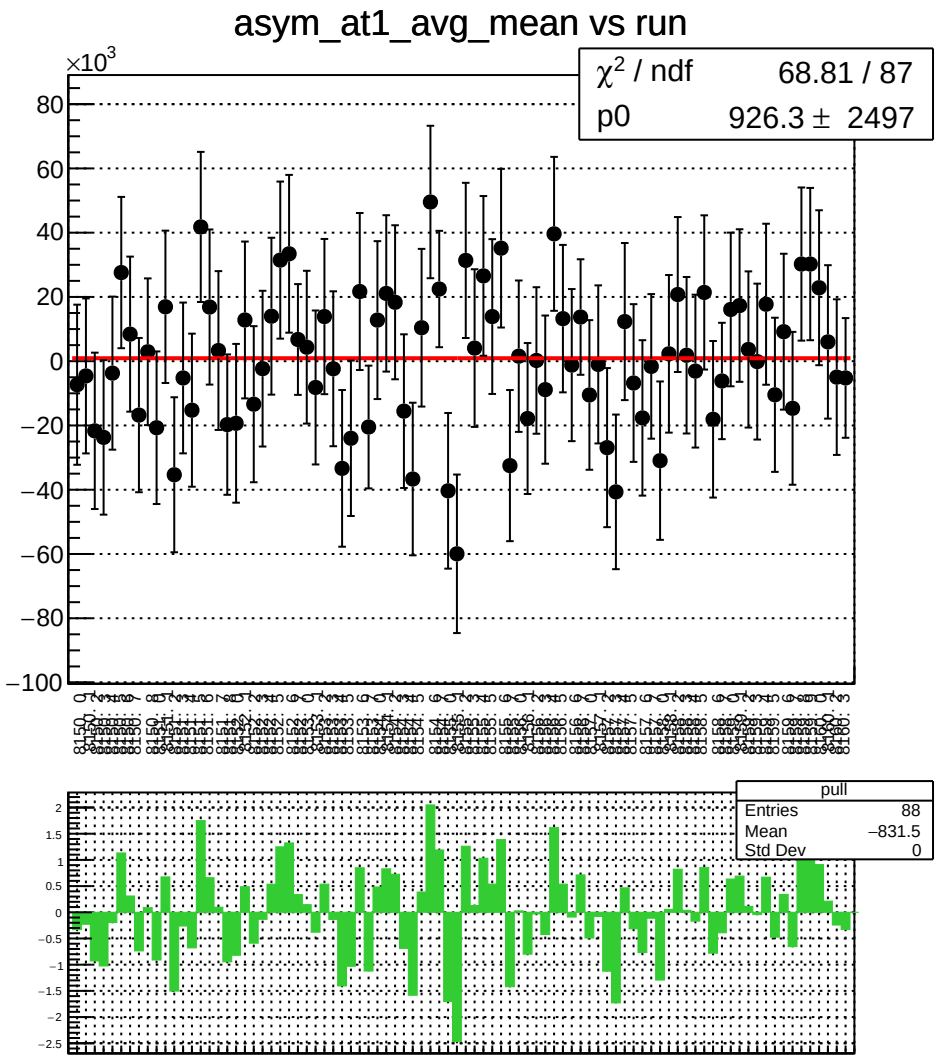

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1417 / 87
p0 1387 ± 1.071
1500
1450
1400
1350
1300

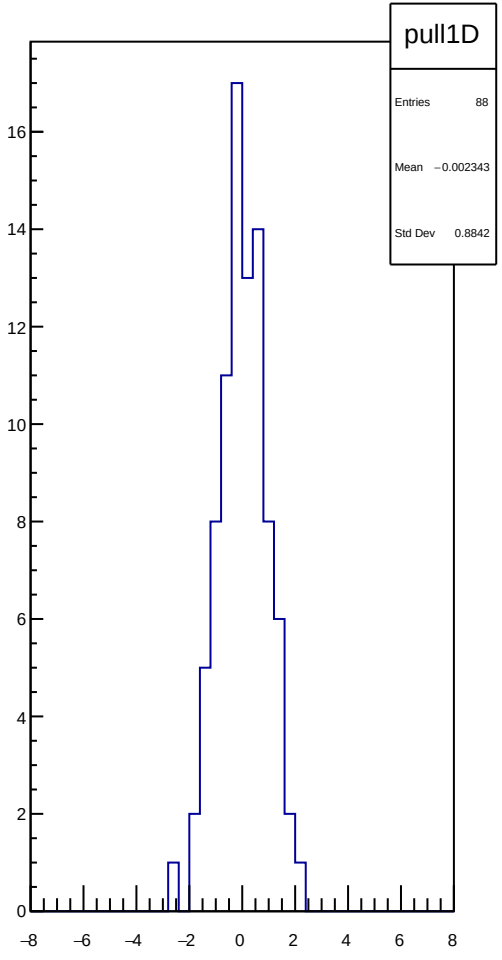

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 70.58 / 87
p0 −2134 ± 1988
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 557.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.002164
Std Dev 0.8956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

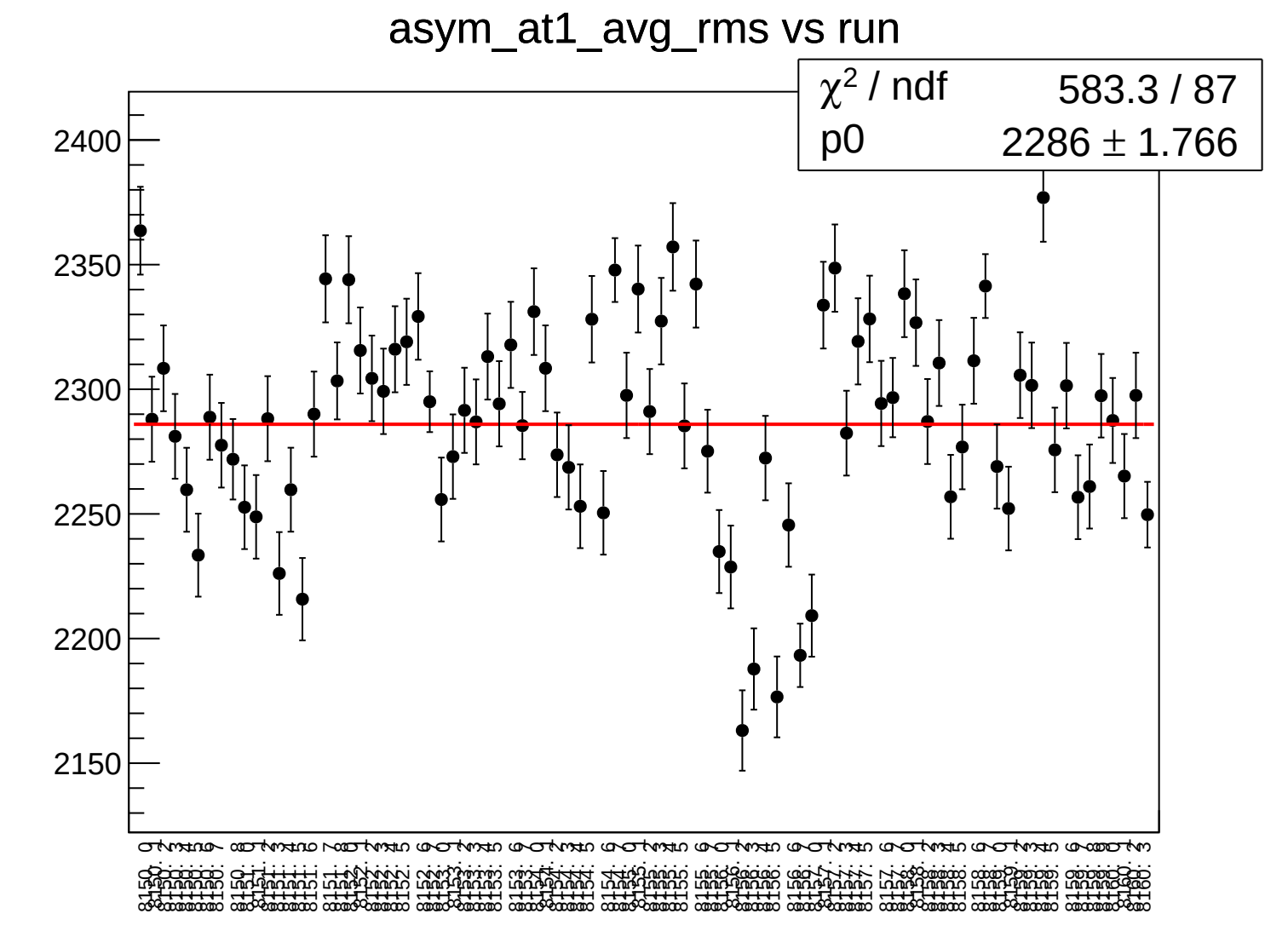

eigen_dit_asym_at1_avg_rms vs run
χ^2 / ndf 102.2 / 87
p0 1820 ± 1.406
1860
1840
1820
1800
1780

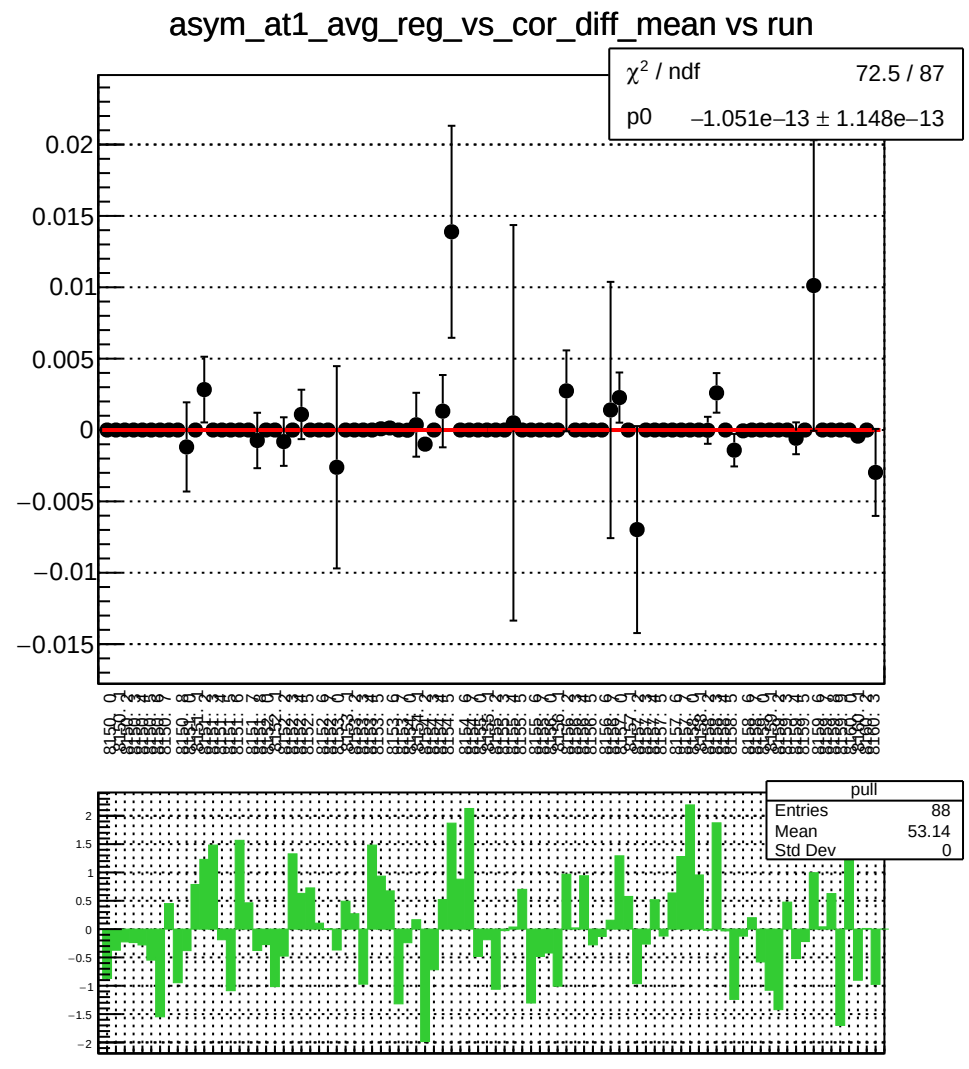

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 106.4 / 87
p0 −2892 ± 1515
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −2961
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0006914
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

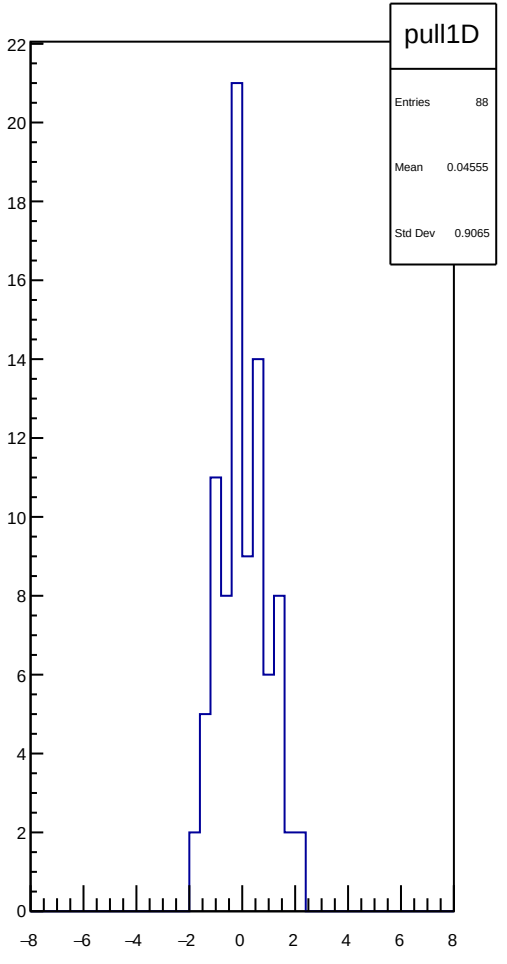

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1417 / 87
p0 1387 ± 1.071
1500
1450
1400
1350
1300

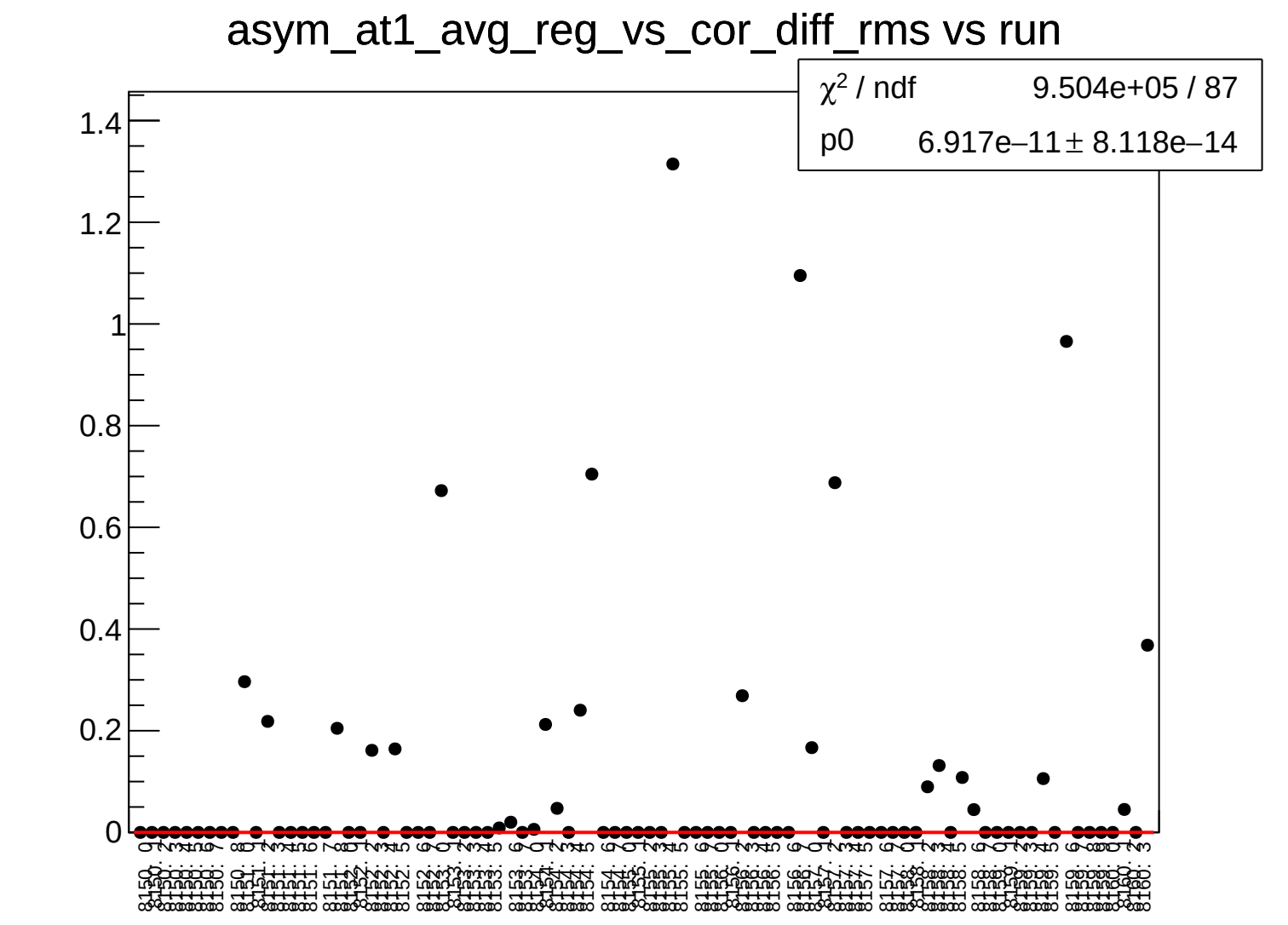

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 68.81 / 87
p0 926.3 ± 2497
pull
Entries 88
Mean −831.5
Std Dev 0

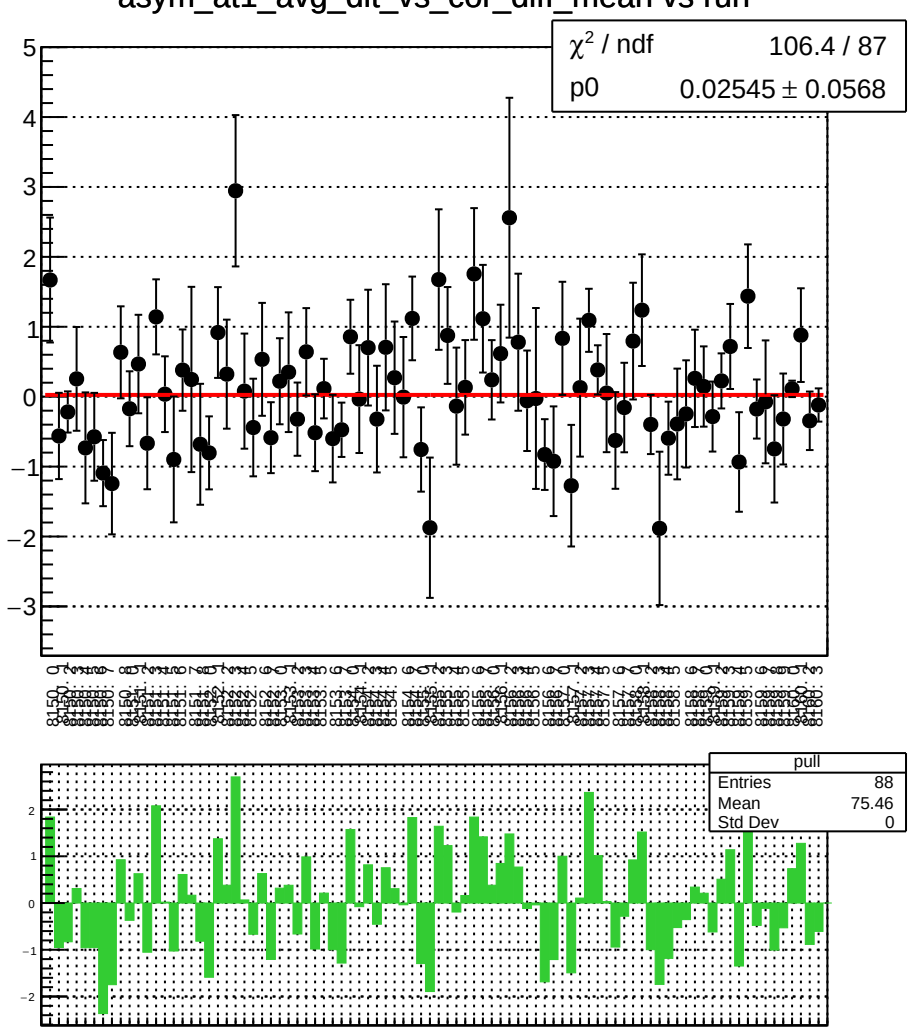

pull1D
Entries 88
Mean −0.002343
Std Dev 0.8842

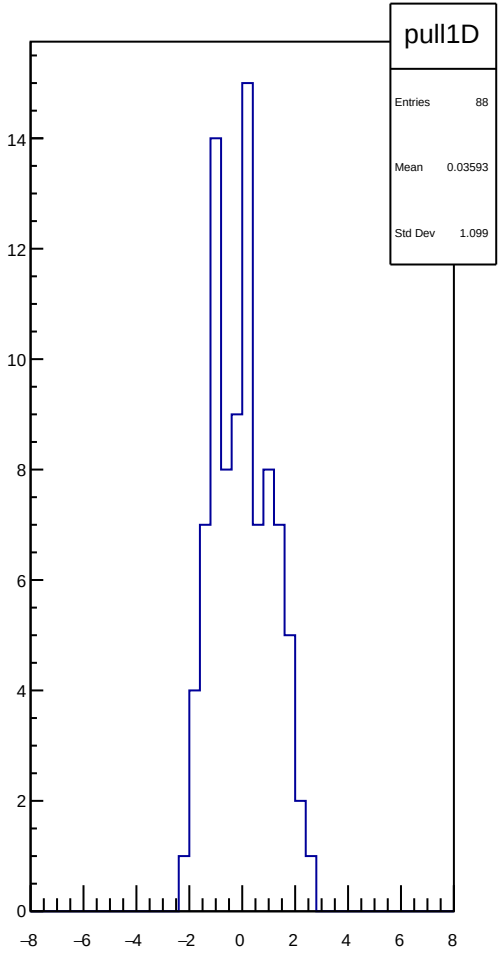

asym_at1_avg_rms vs run
χ^2 / ndf 583.3 / 87
p0 2286 ± 1.766
2400
2350
2300
2250
2200
2150

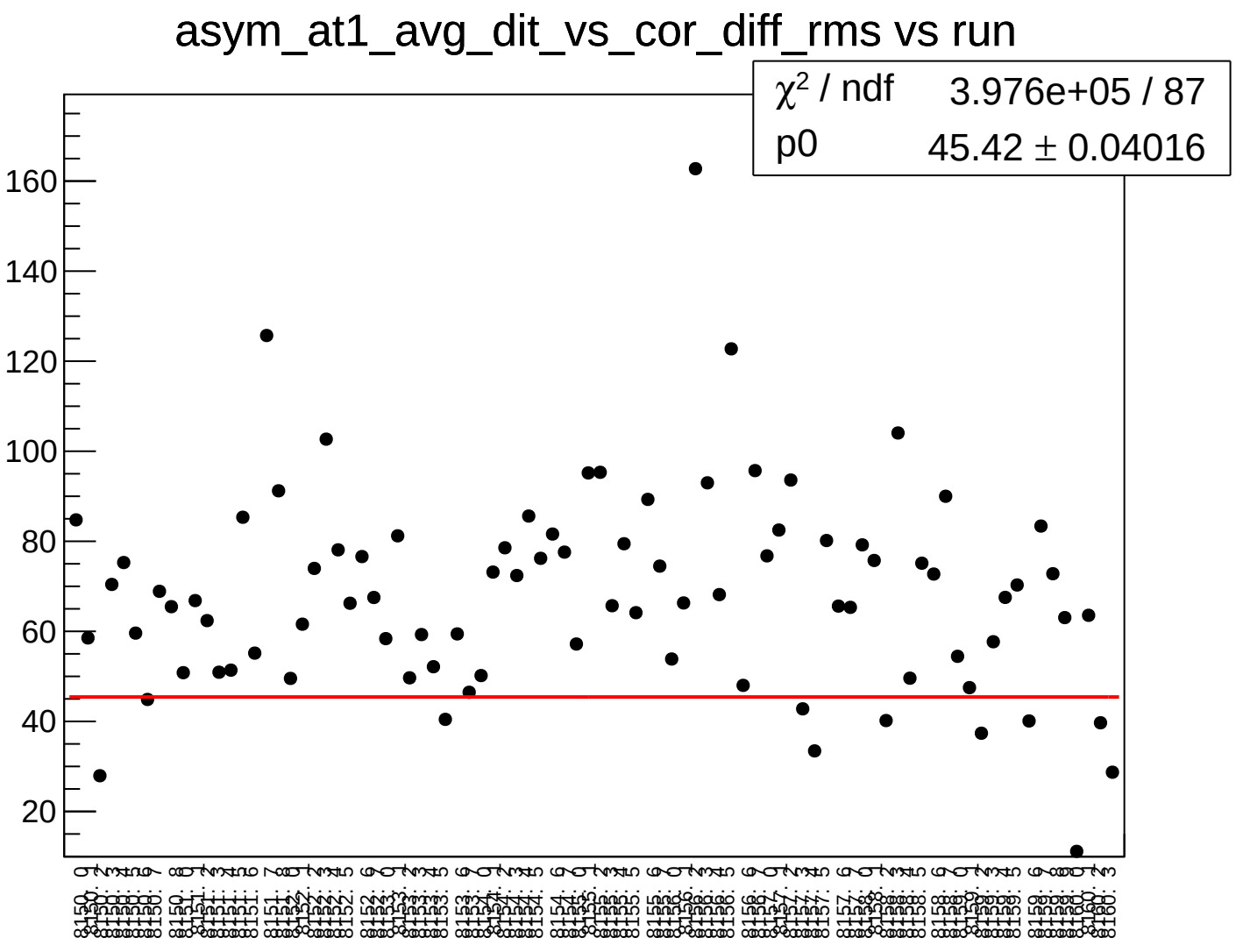

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.5 / 87
p0 −1.051e−13 ± 1.148e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 53.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

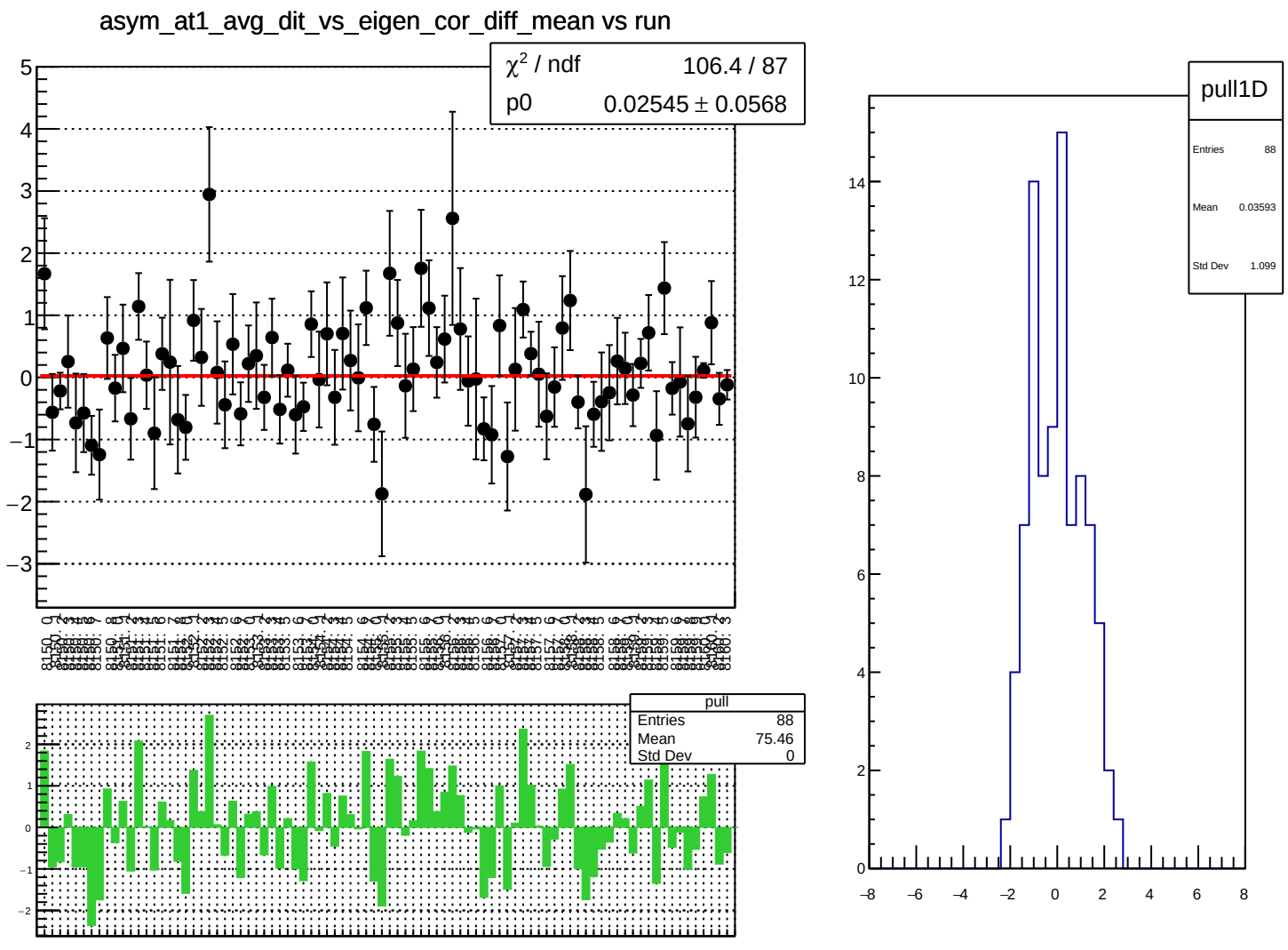

pull1D
Entries 88
Mean 0.04555
Std Dev 0.9065
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

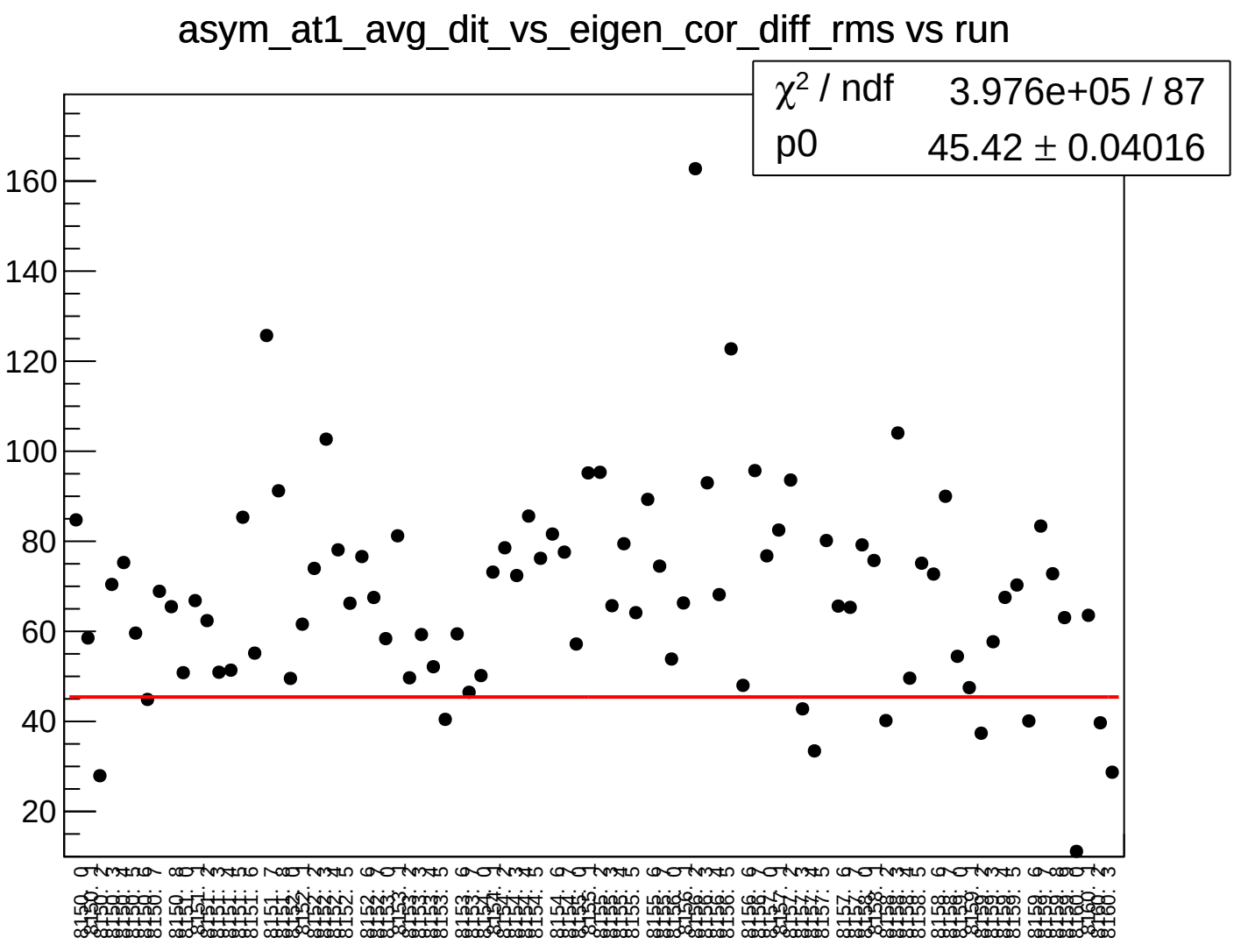

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.504e+05 / 87
p0 6.917e−11 ± 8.118e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

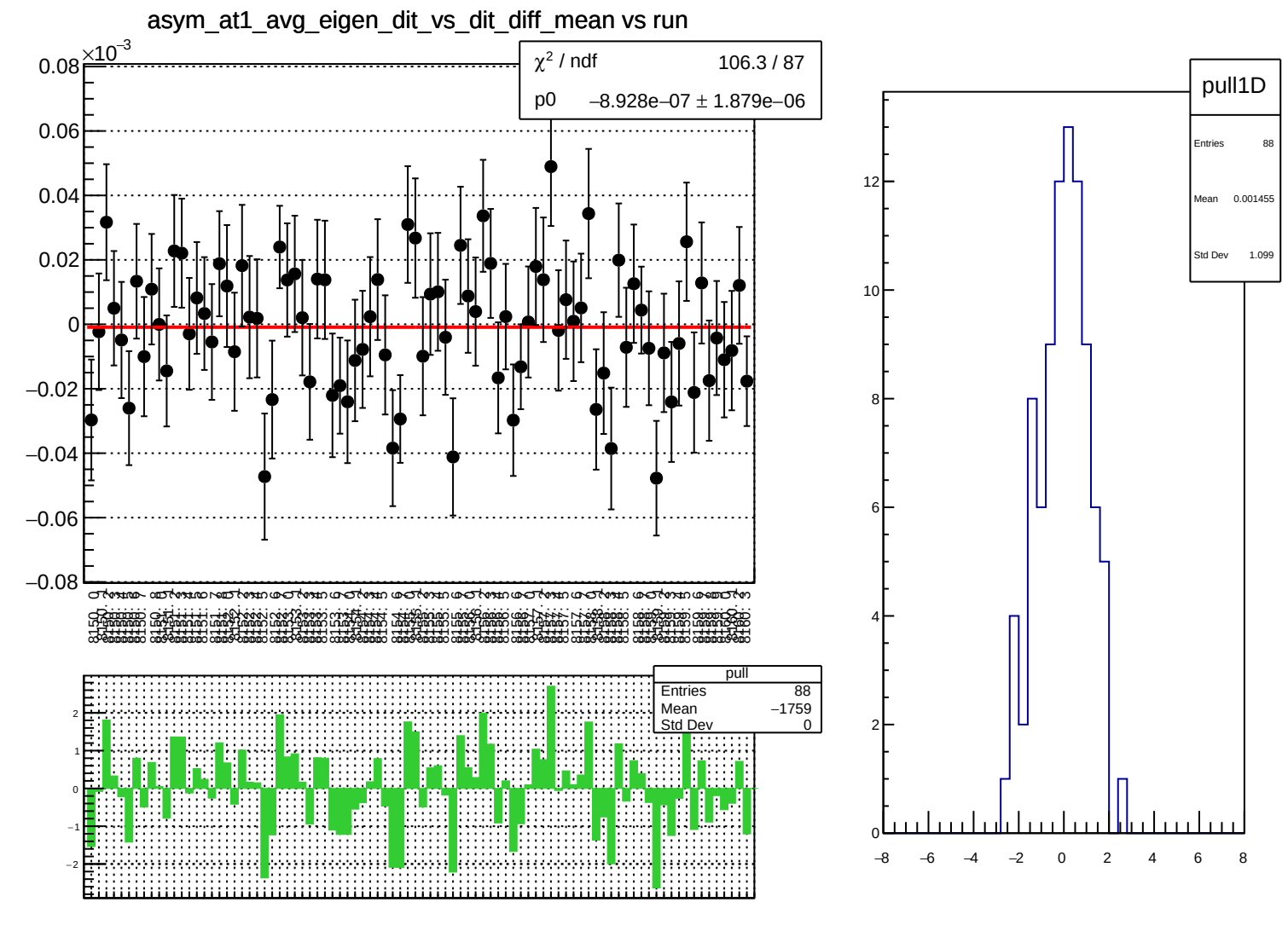

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.4 / 87
p0 0.02545 ± 0.0568
pull
Entries 88
Mean 75.46
Std Dev 0

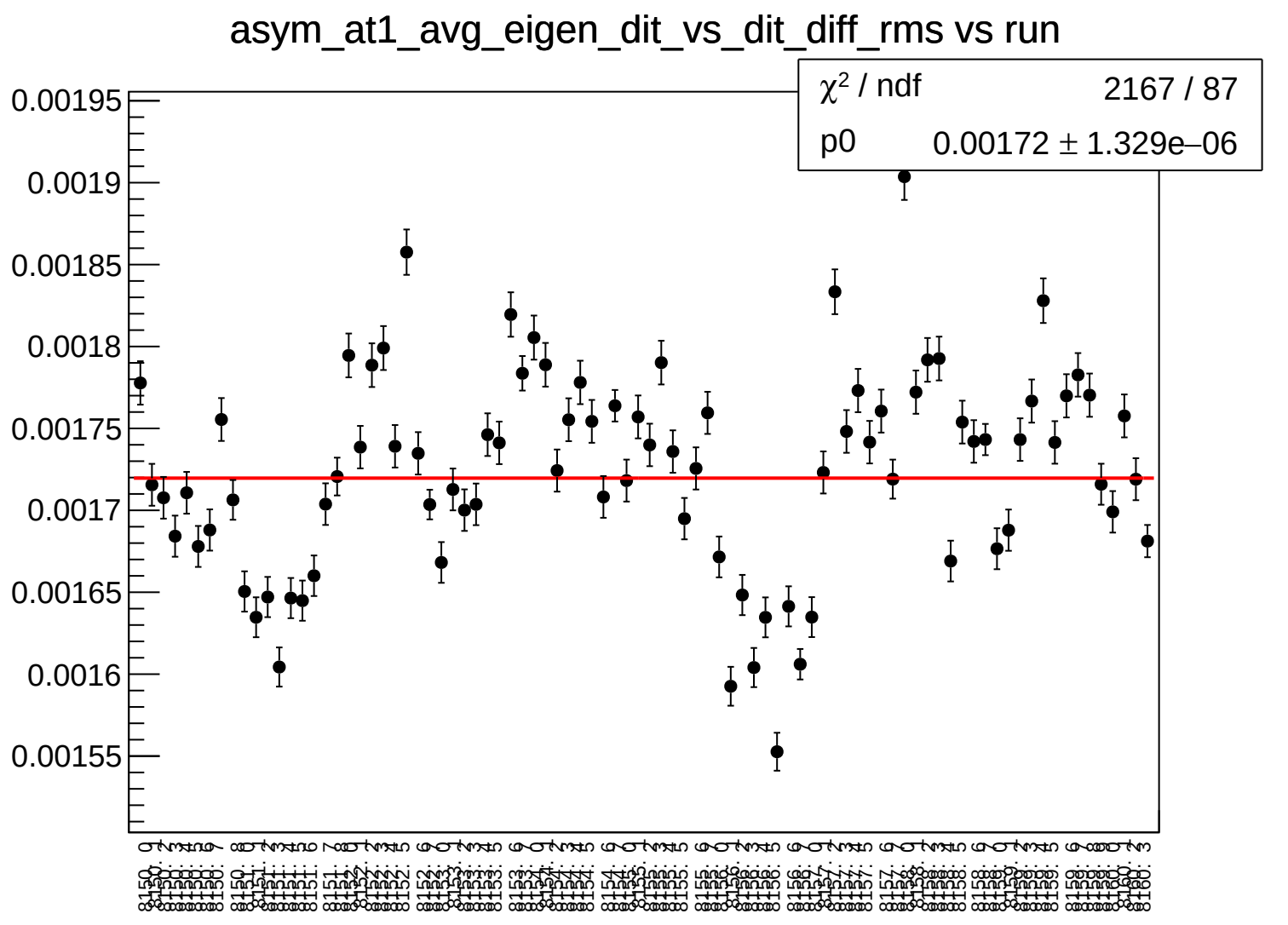

pull1D
Entries 88
Mean 0.03593
Std Dev 1.099

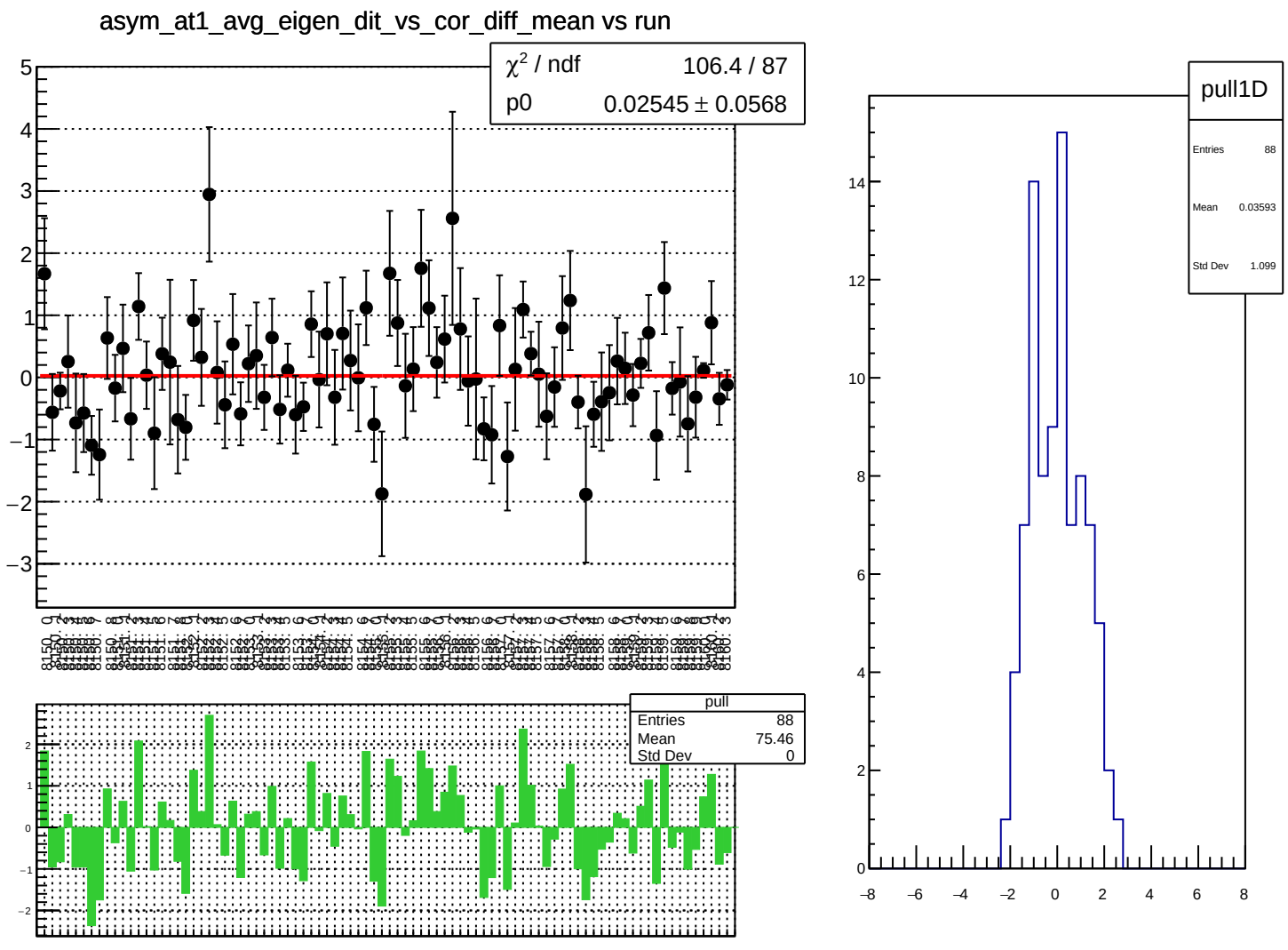

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.976e+05 / 87
p0 45.42 ± 0.04016
160
140
120
100
80
60
40
20

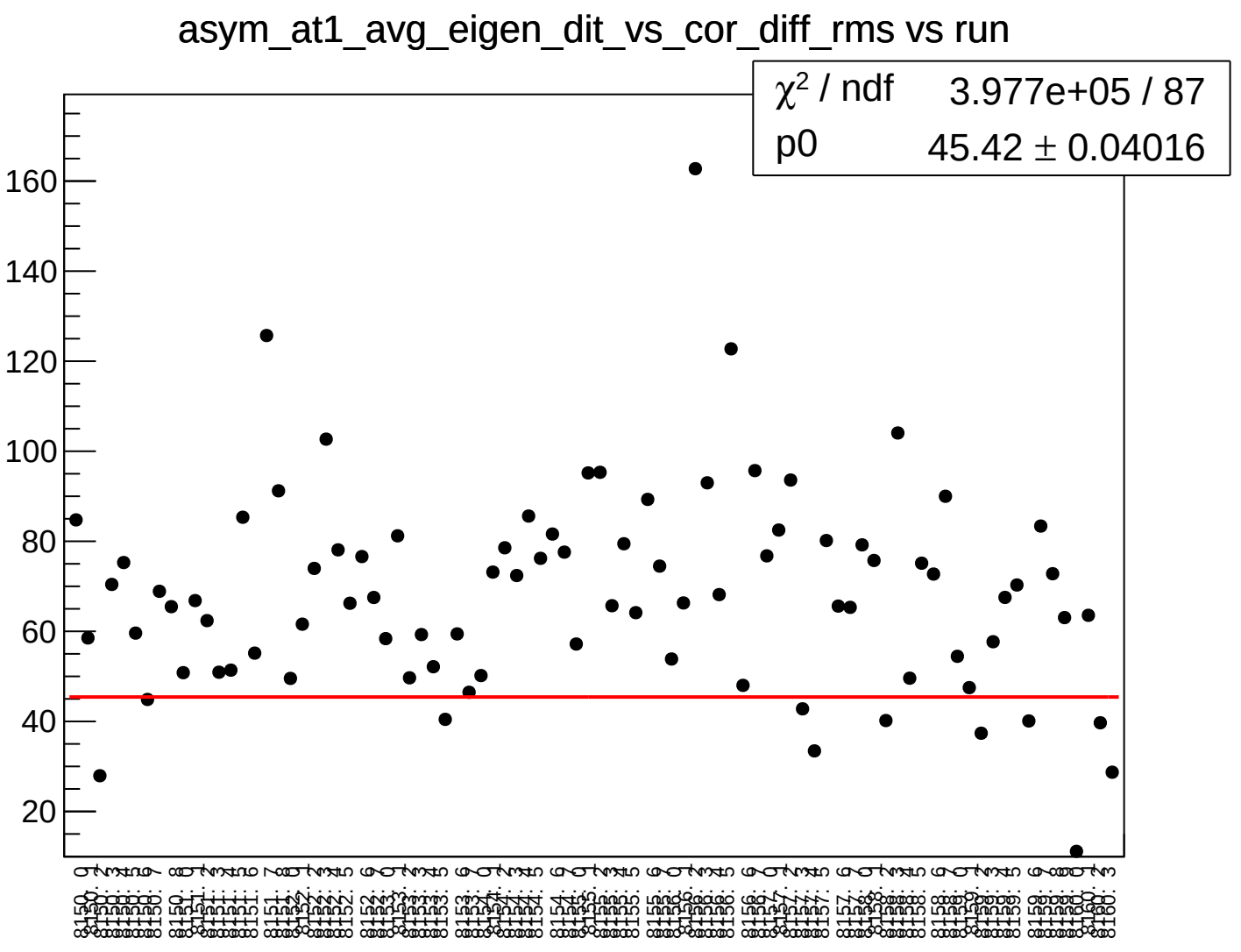

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.4 / 87
p0 0.02545 ± 0.0568
pull
Entries 88
Mean 75.46
Std Dev 0
pull1D
Entries 88
Mean 0.03593
Std Dev 1.099

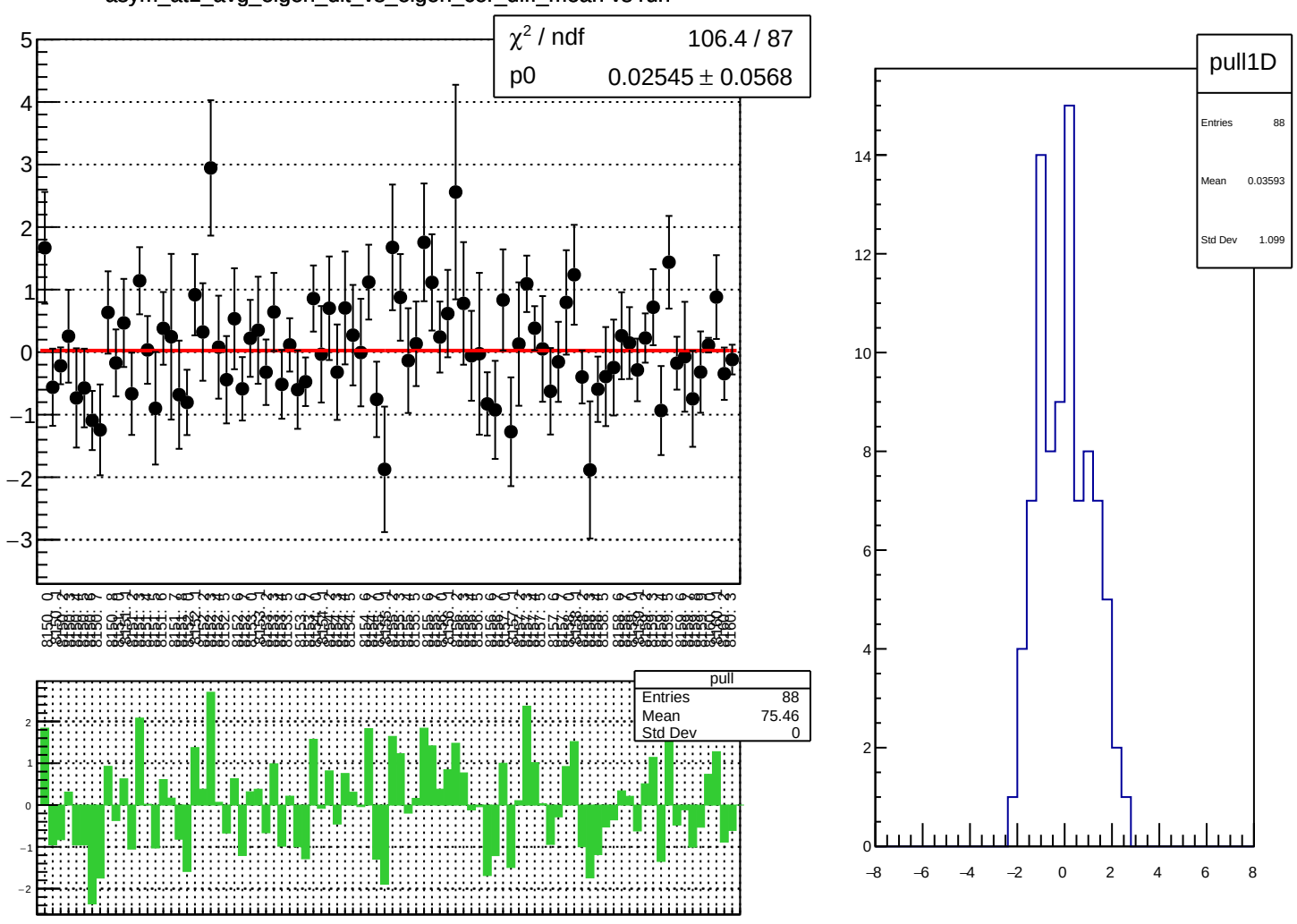

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.976e+05 / 87
p0 45.42 ± 0.04016
160
140
120
100
80
60
40
20

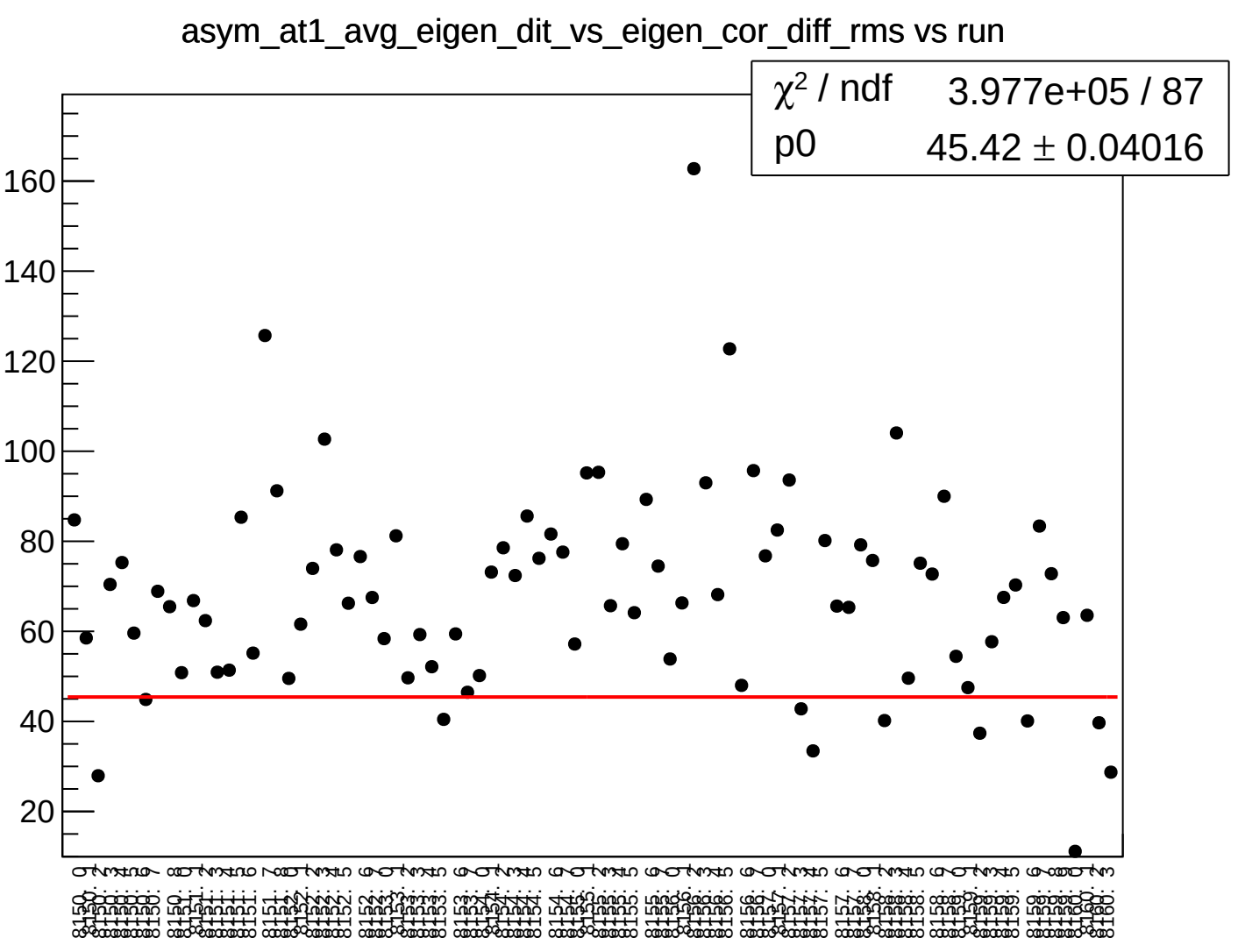

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.3 / 87
p0 −8.928e−07 ± 1.879e−06
pull
Entries 88
Mean −1759
Std Dev 0
pull1D
Entries 88
Mean 0.001455
Std Dev 1.099

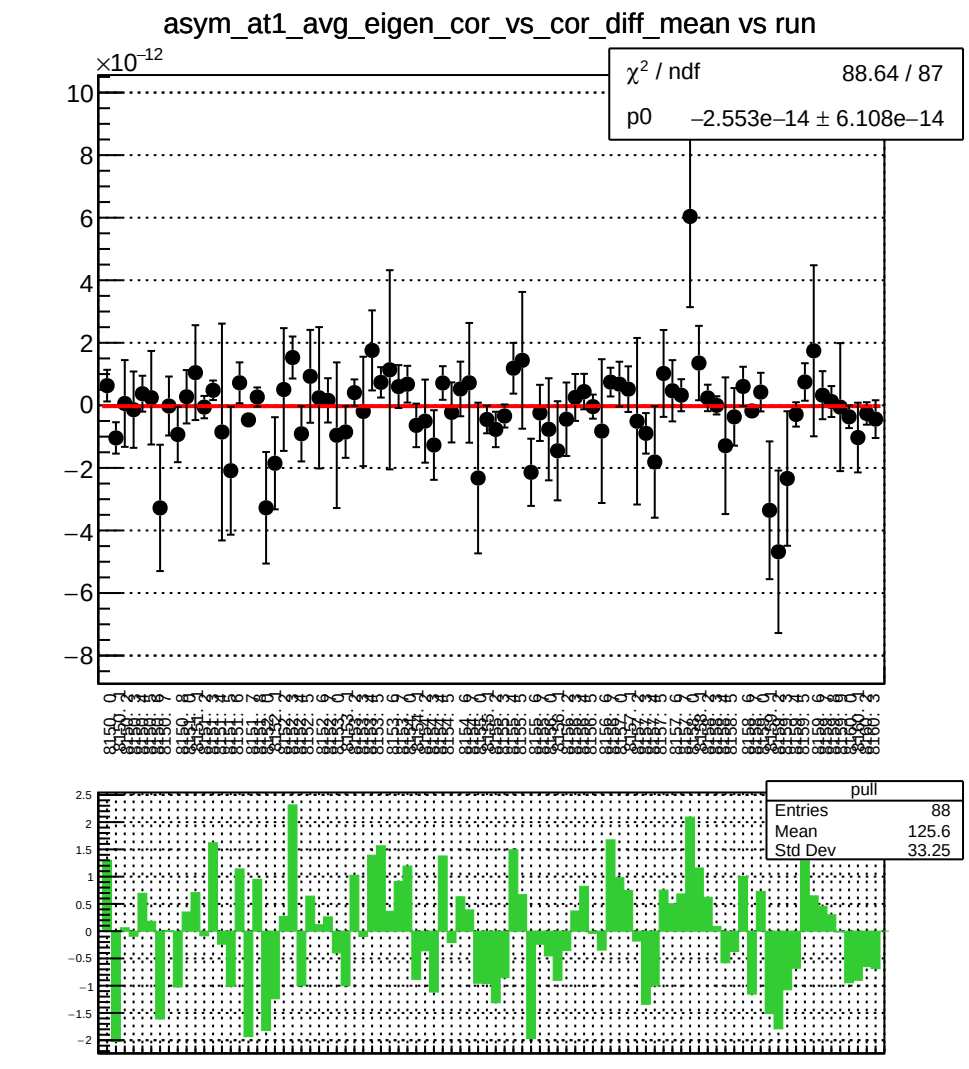

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2167 / 87
p0 0.00172 ± 1.329e−06
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155

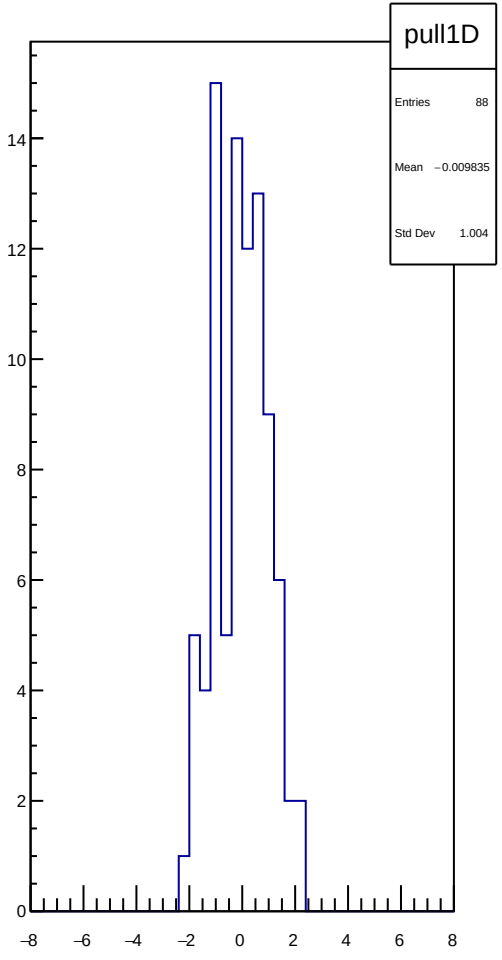

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.4 / 87
p0 0.02545 ± 0.0568
pull
Entries 88
Mean 75.46
Std Dev 0
pull1D
Entries 88
Mean 0.03593
Std Dev 1.099

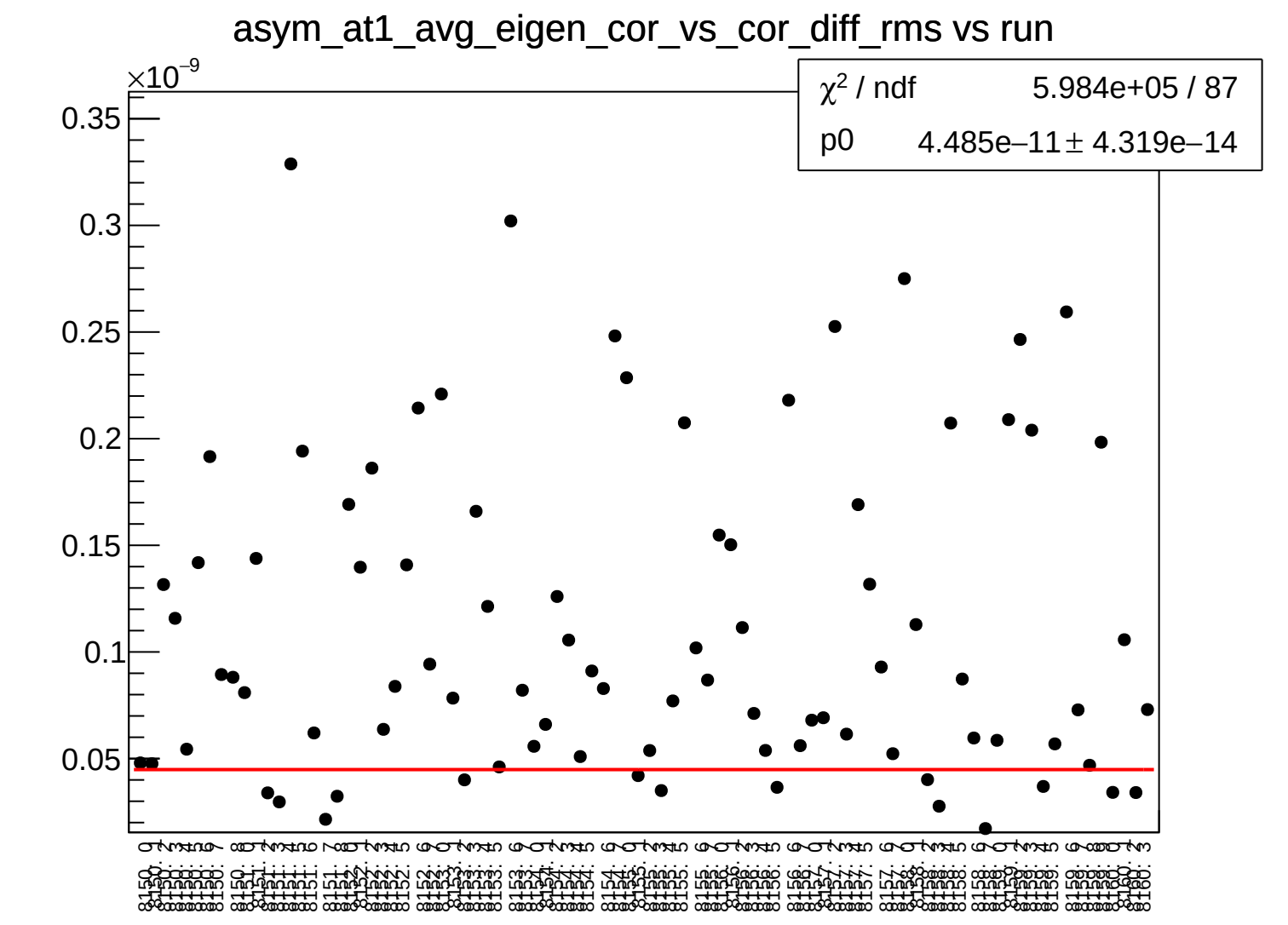

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.977e+05 / 87
p0 45.42 ± 0.04016
160
140
120
100
80
60
40
20

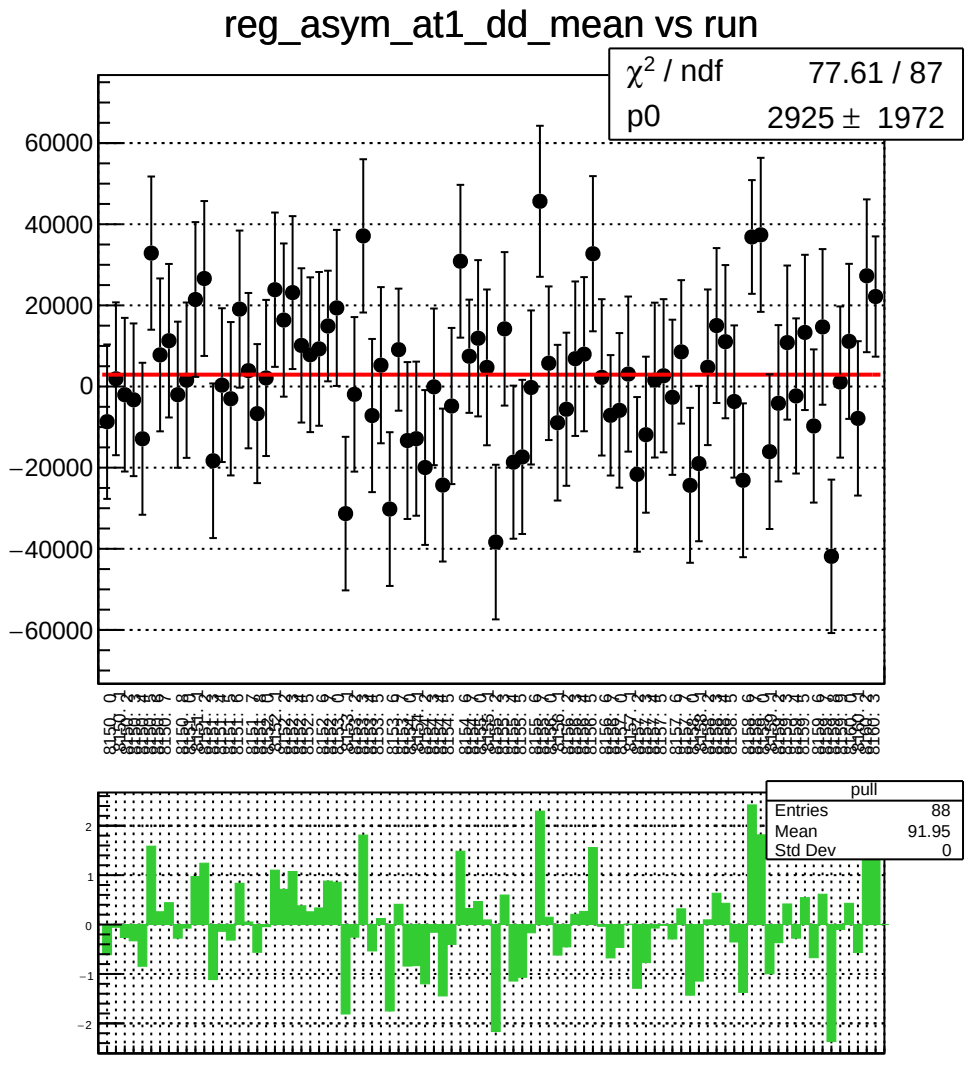

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.4 / 87
p0 0.02545 ± 0.0568
pull
Entries 88
Mean 75.46
Std Dev 0
pull1D
Entries 88
Mean 0.03593
Std Dev 1.099

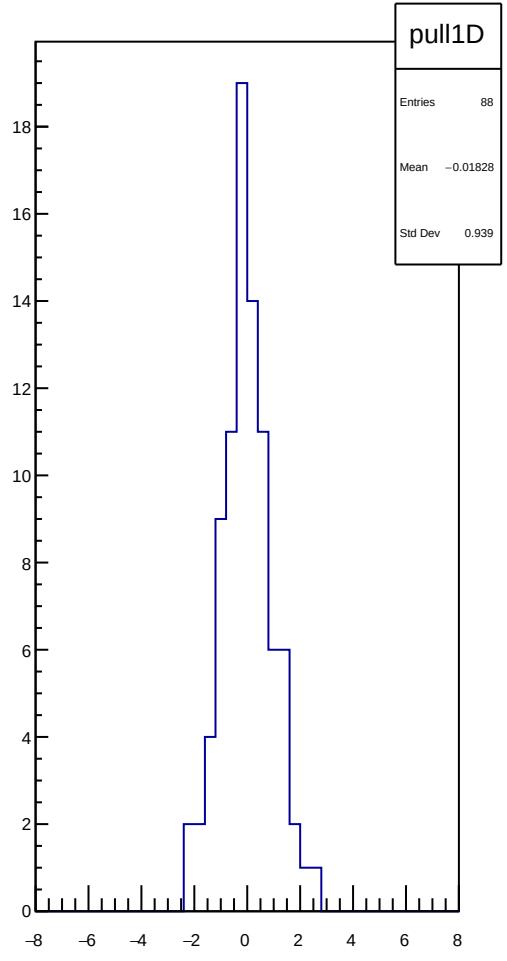

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.977e+05 / 87
p0 45.42 ± 0.04016
160
140
120
100
80
60
40
20

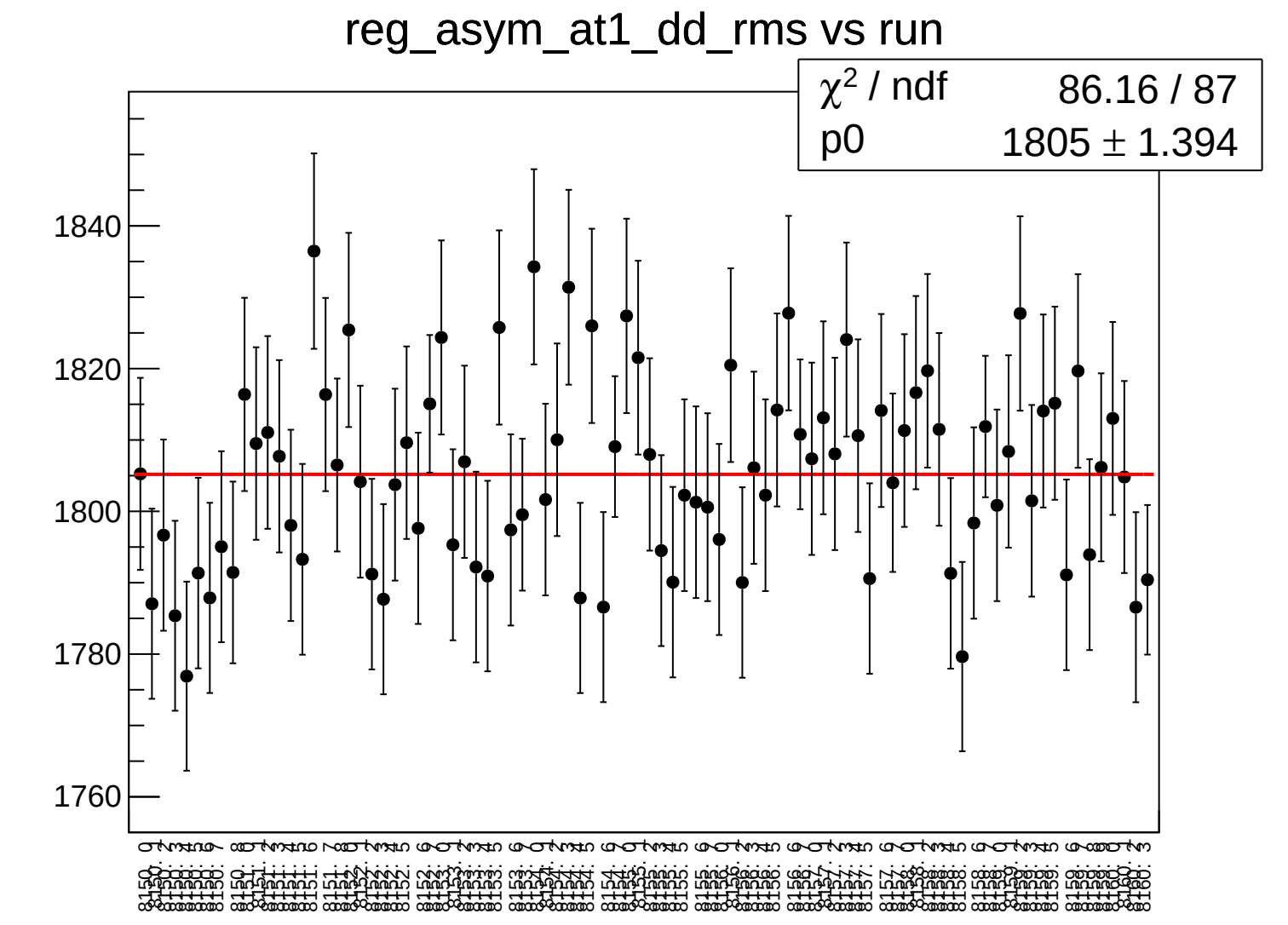

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.64 / 87
p0 −2.553e−14 ± 6.108e−14
pull
Entries 88
Mean 125.6
Std Dev 33.25

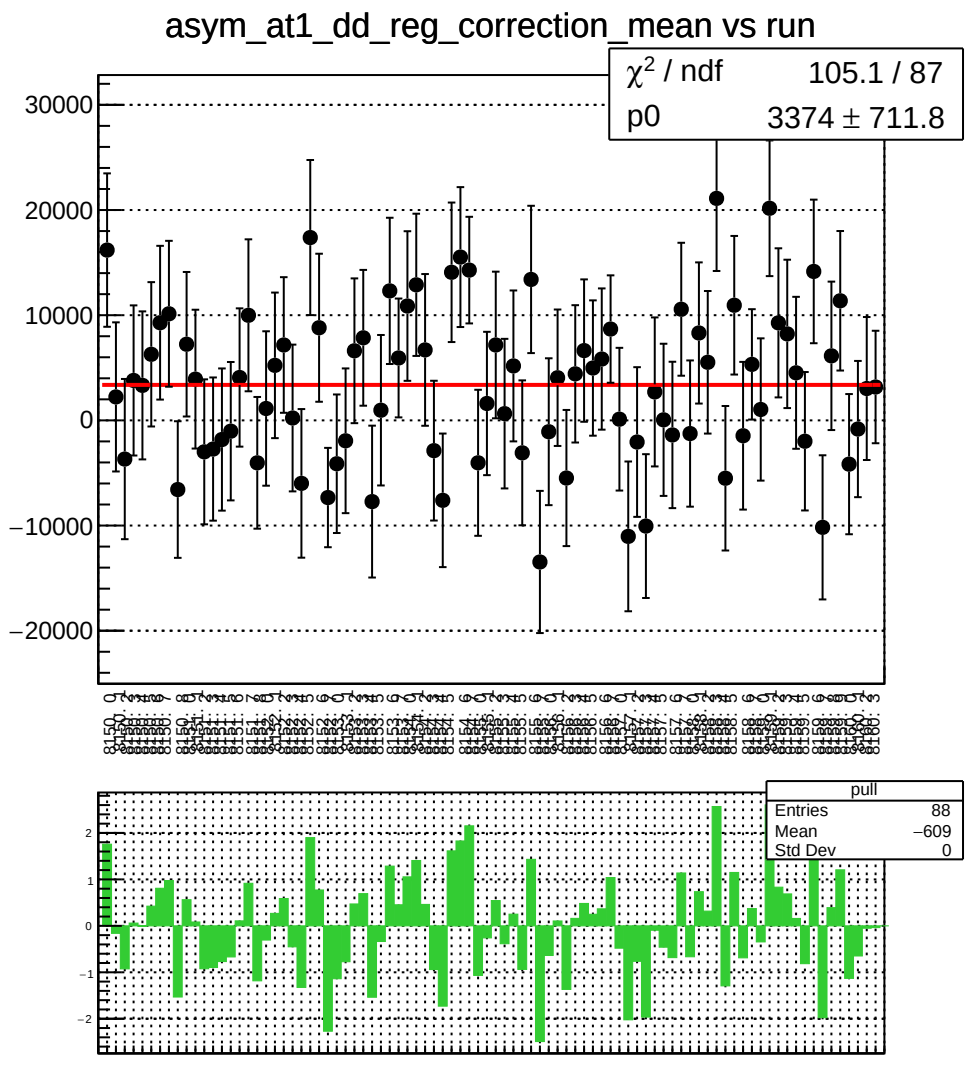

pull1D
Entries 88
Mean −0.009835
Std Dev 1.004

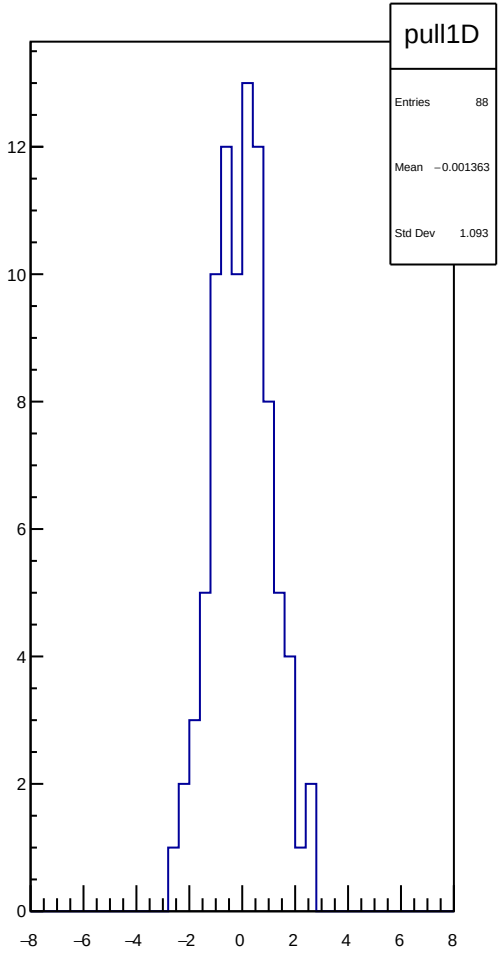

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.984e+05 / 87
p0 4.485e−11 ± 4.319e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

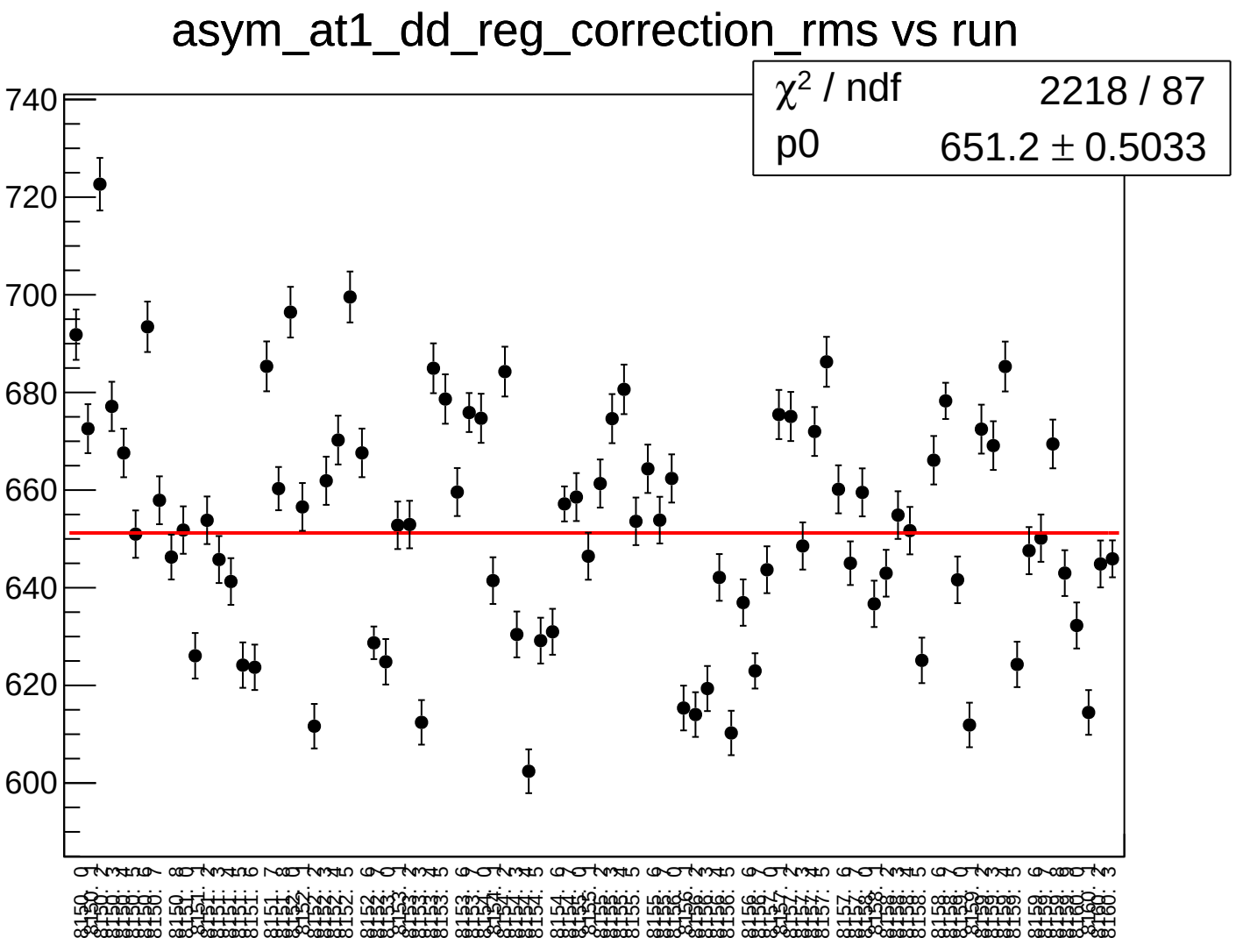

reg_asym_at1_dd_mean vs run
χ² / ndf 77.61 / 87
p0 2925 ± 1972
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 91.95
Std Dev 0
2
1
0
−1
−2

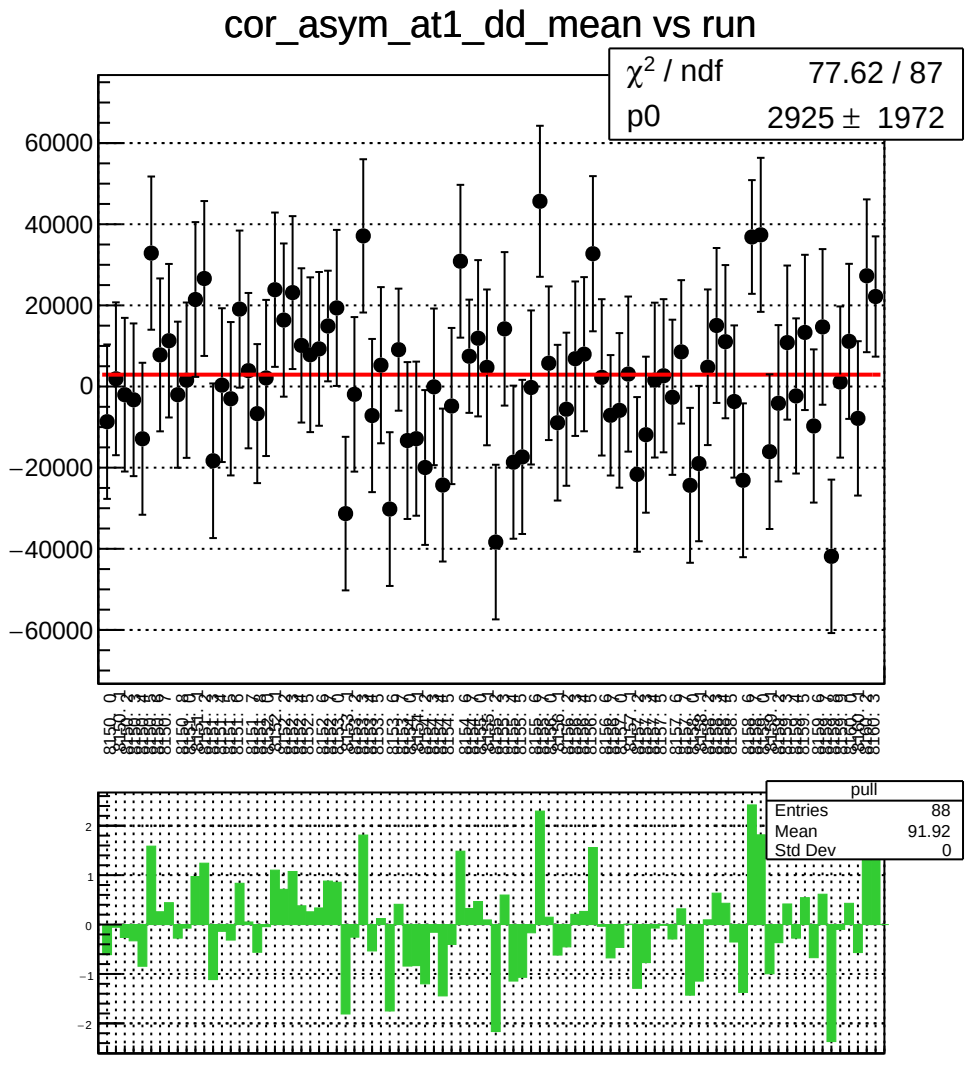

pull1D
Entries 88
Mean −0.01828
Std Dev 0.939
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

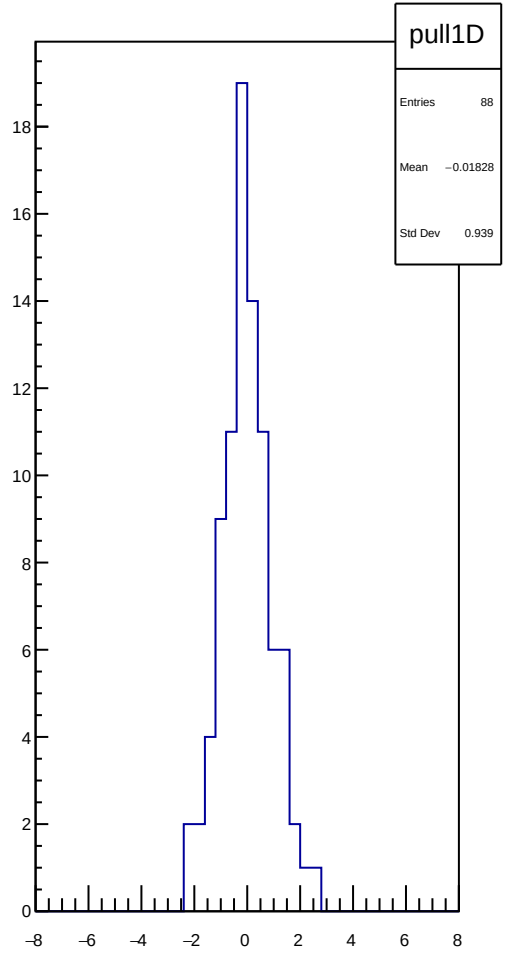

reg_asym_at1_dd_rms vs run
χ^2 / ndf 86.16 / 87
p0 1805 ± 1.394
1840
1820
1800
1780
1760

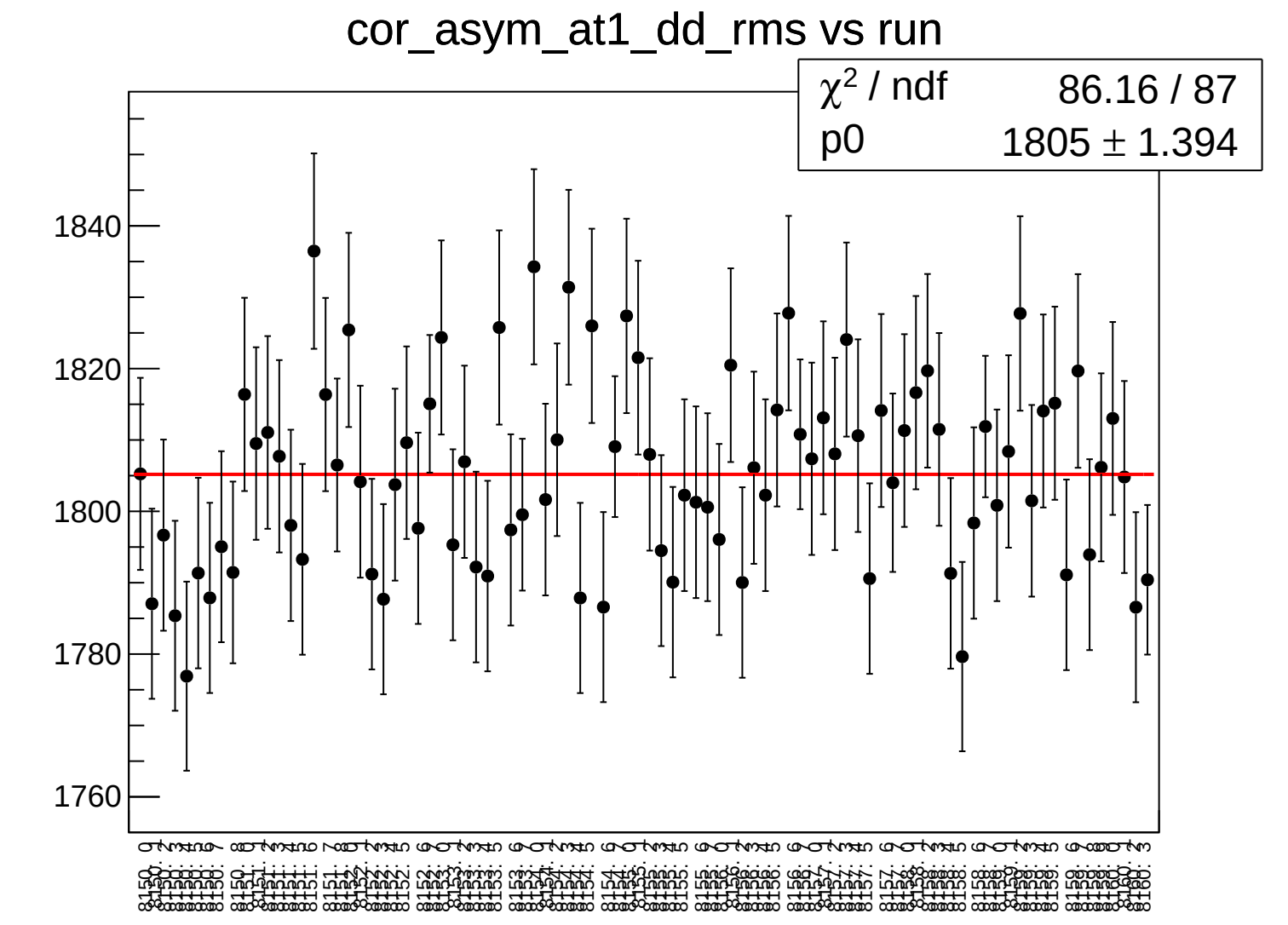

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 105.1 / 87
p0 3374 ± 711.8
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −609
Std Dev 0
2
1
0
−1
−2

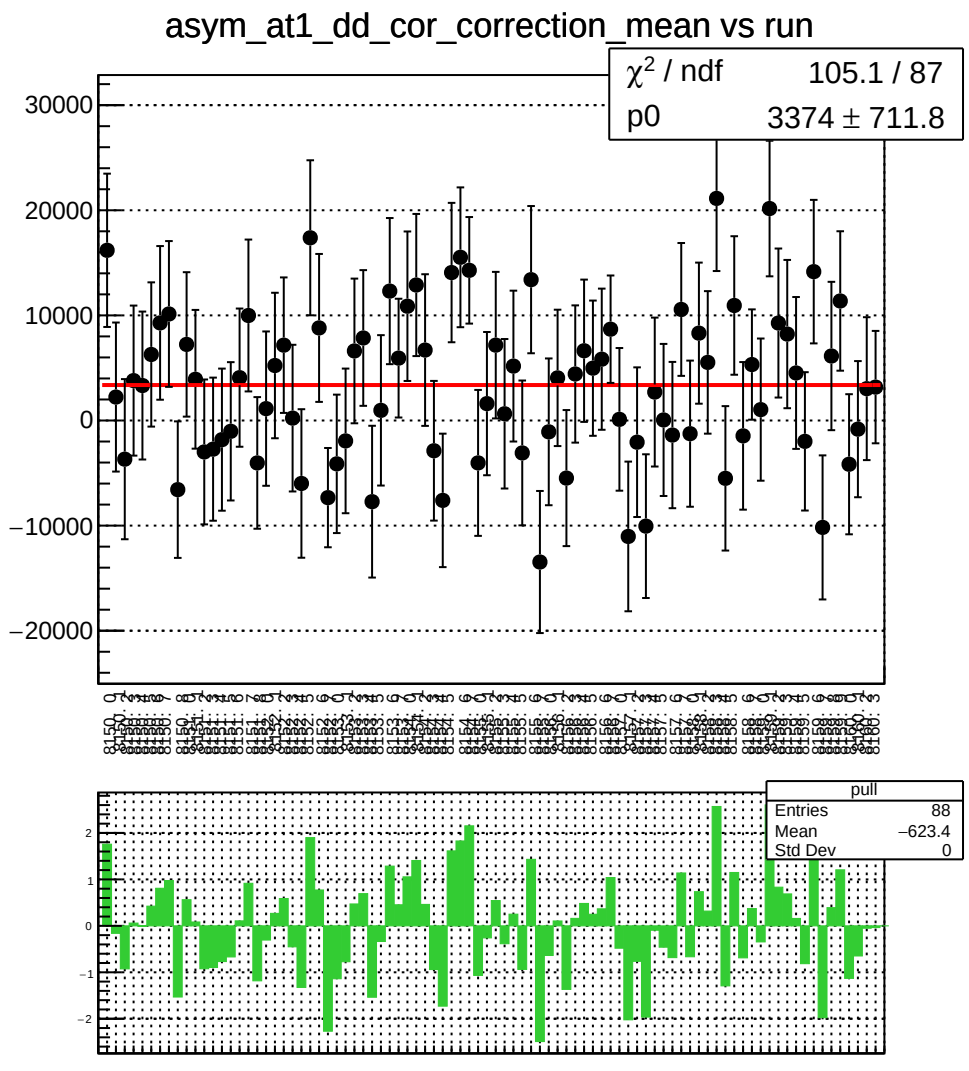

pull1D
Entries 88
Mean −0.001363
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

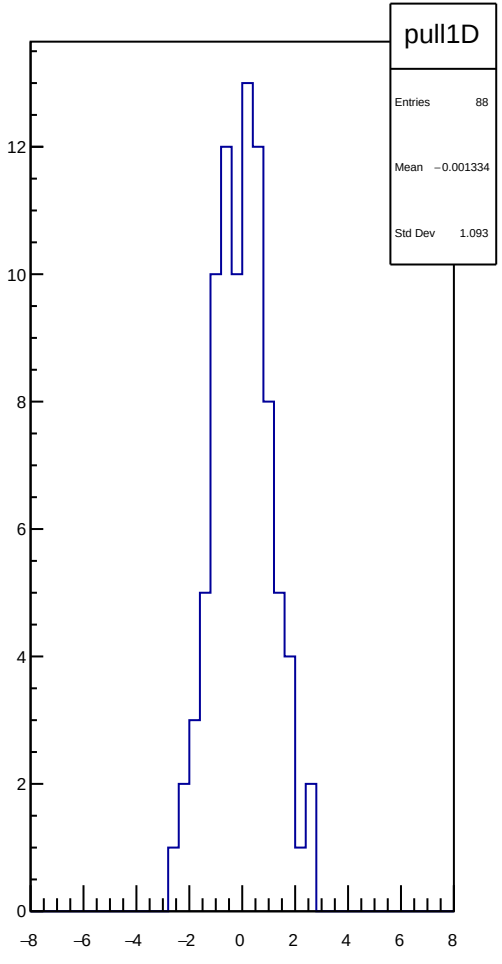

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 2218 / 87
p0 651.2 ± 0.5033
740
720
700
680
660
640
620
600

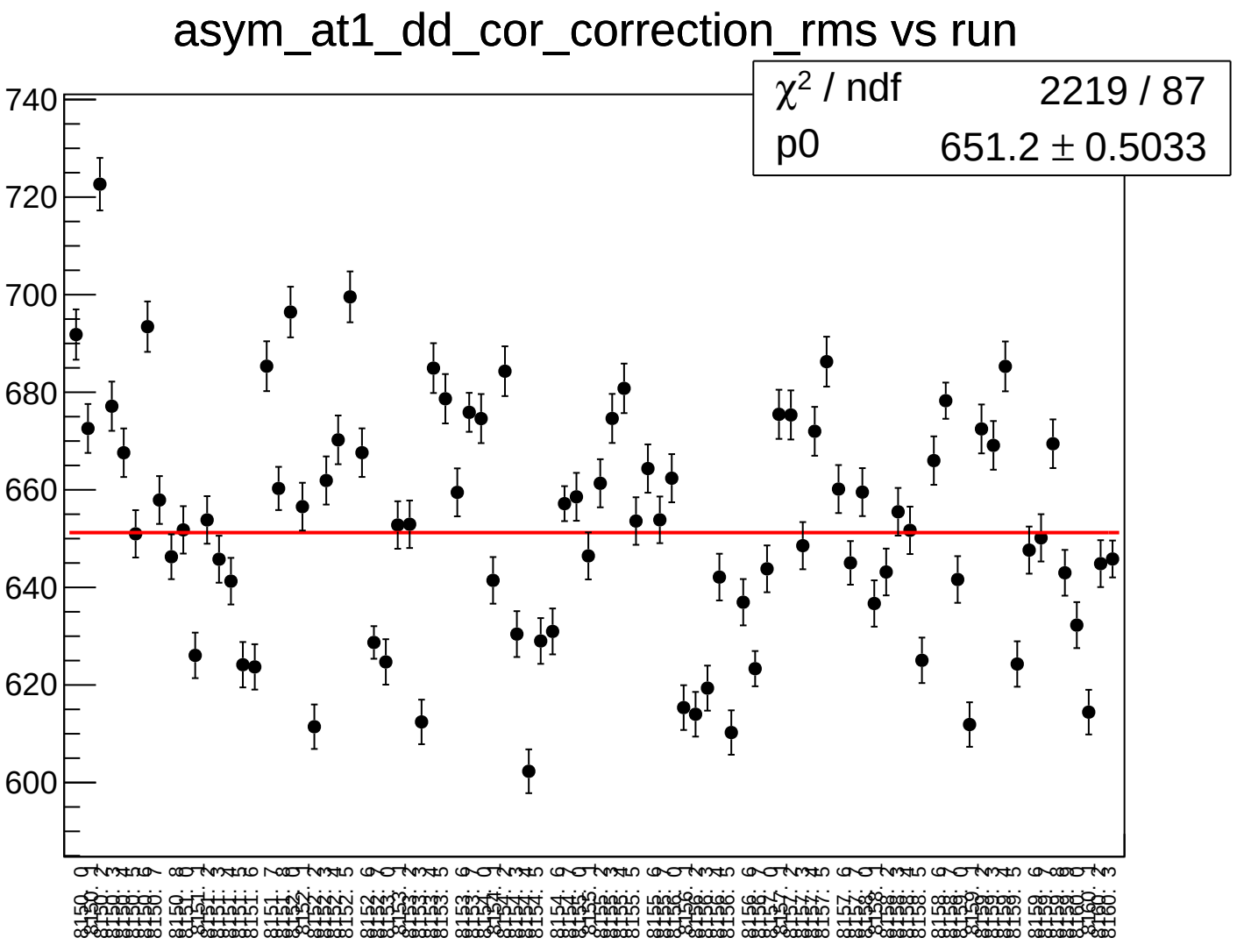

cor_asym_at1_dd_mean vs run
χ² / ndf 77.62 / 87
p0 2925 ± 1972
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 91.92
Std Dev 0
2
1
0
−1
−2

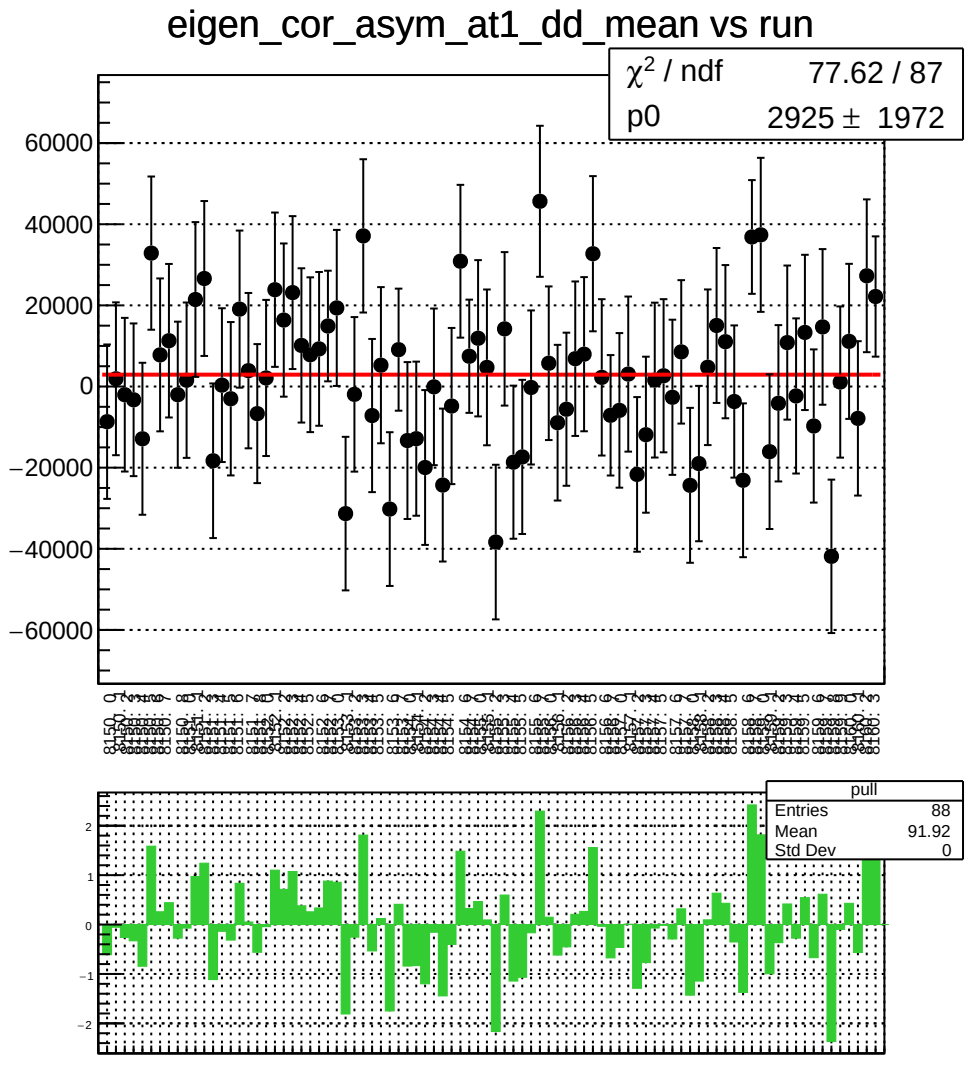

pull1D
Entries 88
Mean −0.01828
Std Dev 0.939
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

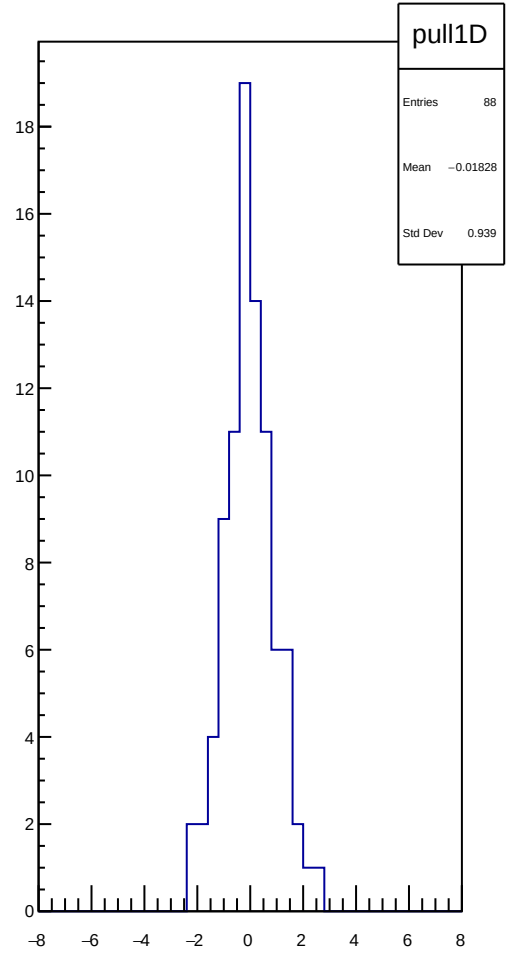

cor_asym_at1_dd_rms vs run
χ^2 / ndf 86.16 / 87
p0 1805 ± 1.394
1840
1820
1800
1780
1760

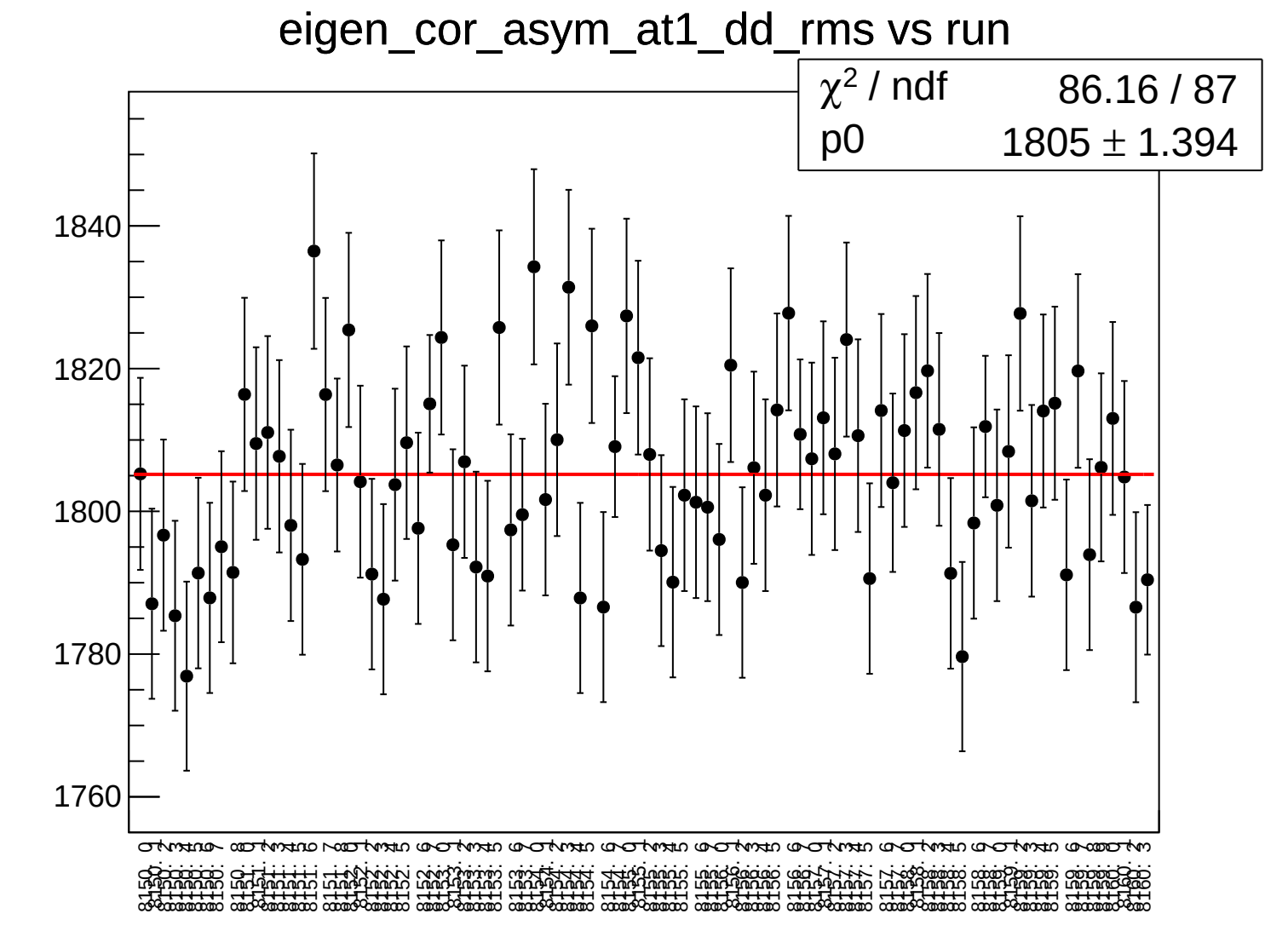

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 105.1 / 87
p0 3374 ± 711.8
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −623.4
Std Dev 0
2
1
0
−1
−2

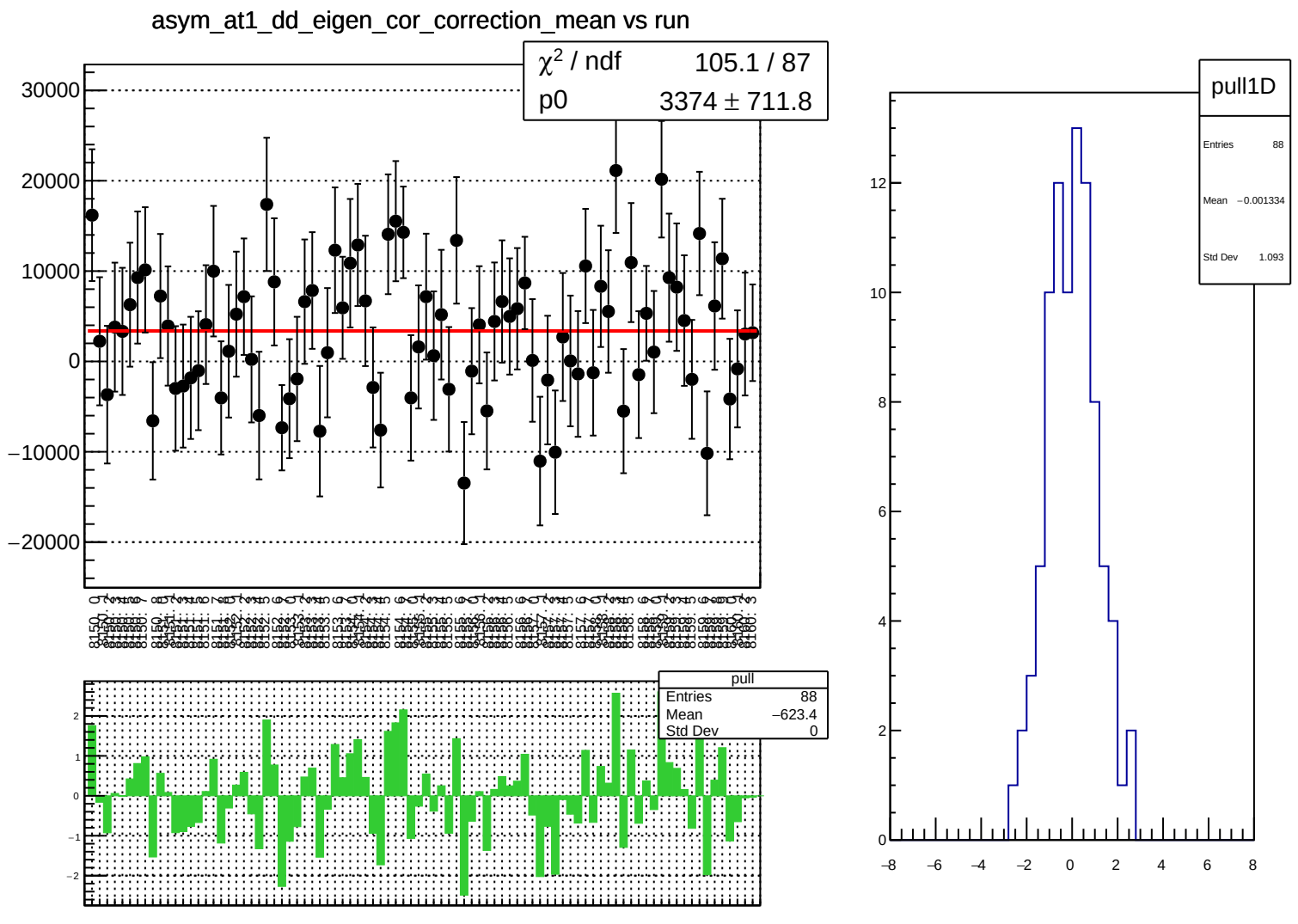

pull1D
Entries 88
Mean −0.001334
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

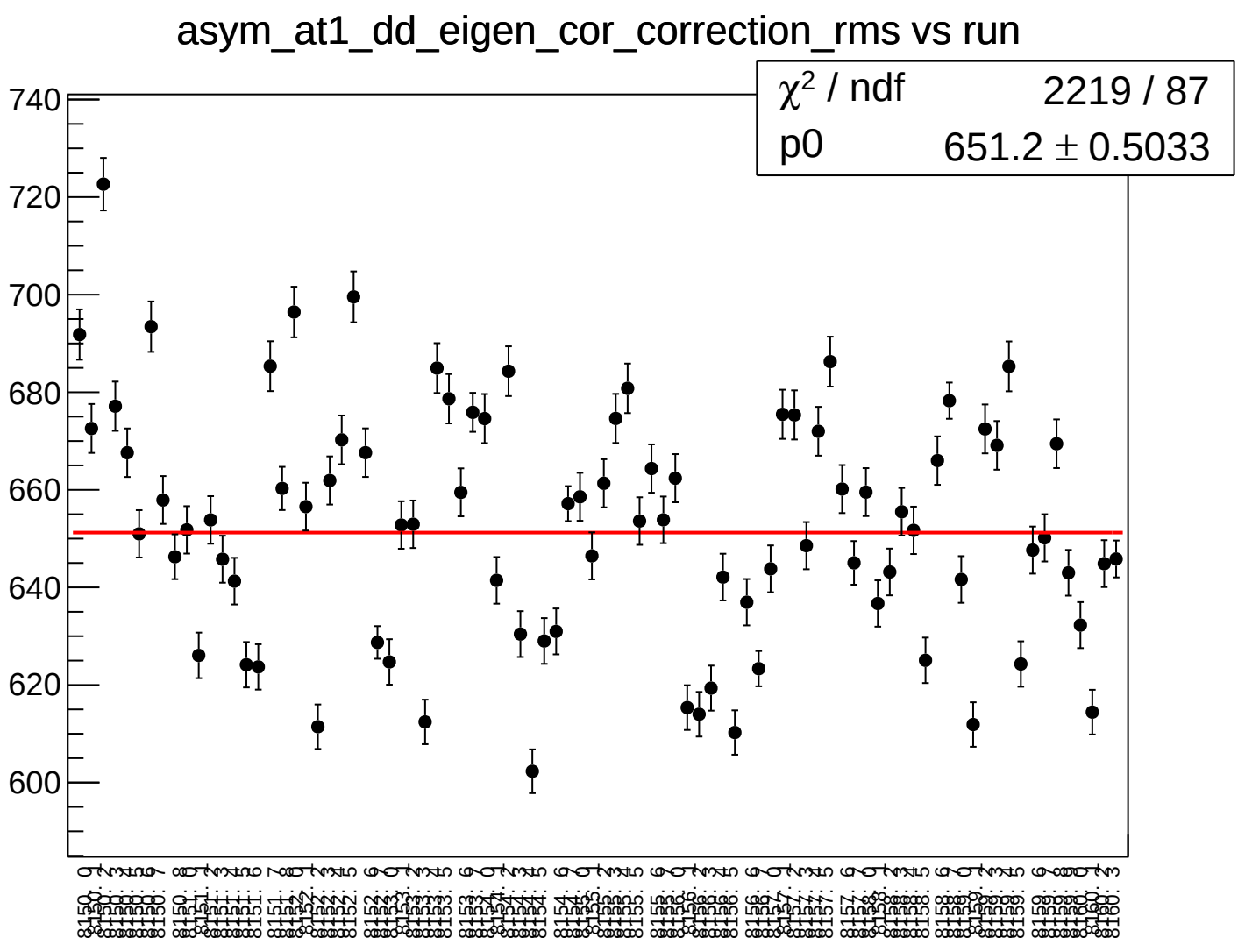

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 2219 / 87
p0 651.2 ± 0.5033
740
720
700
680
660
640
620
600

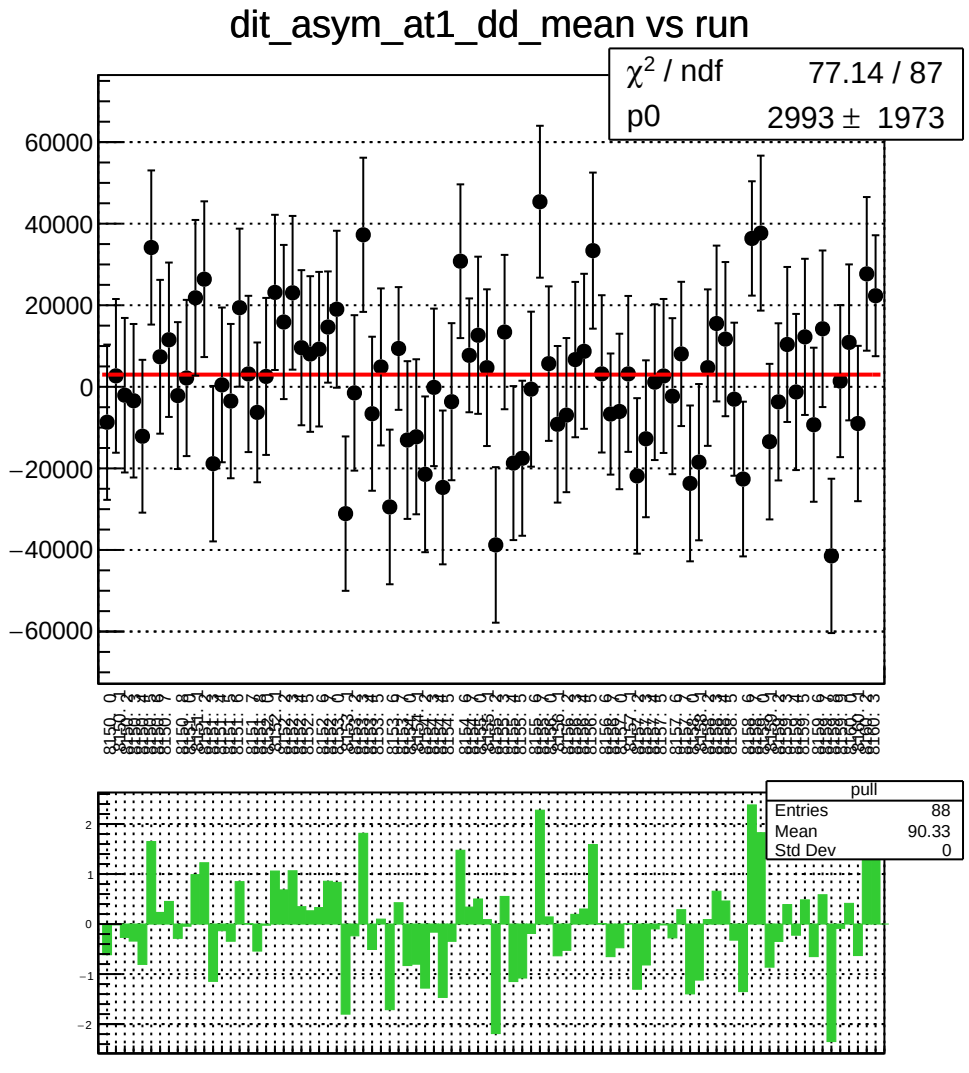

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 77.62 / 87
p0 2925 ± 1972
pull
Entries 88
Mean 91.92
Std Dev 0

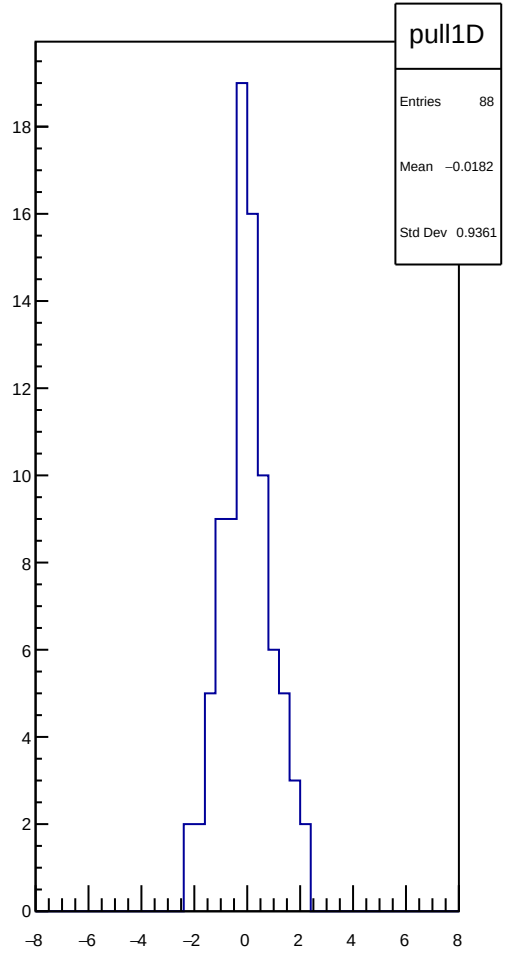

pull1D
Entries 88
Mean −0.01828
Std Dev 0.939

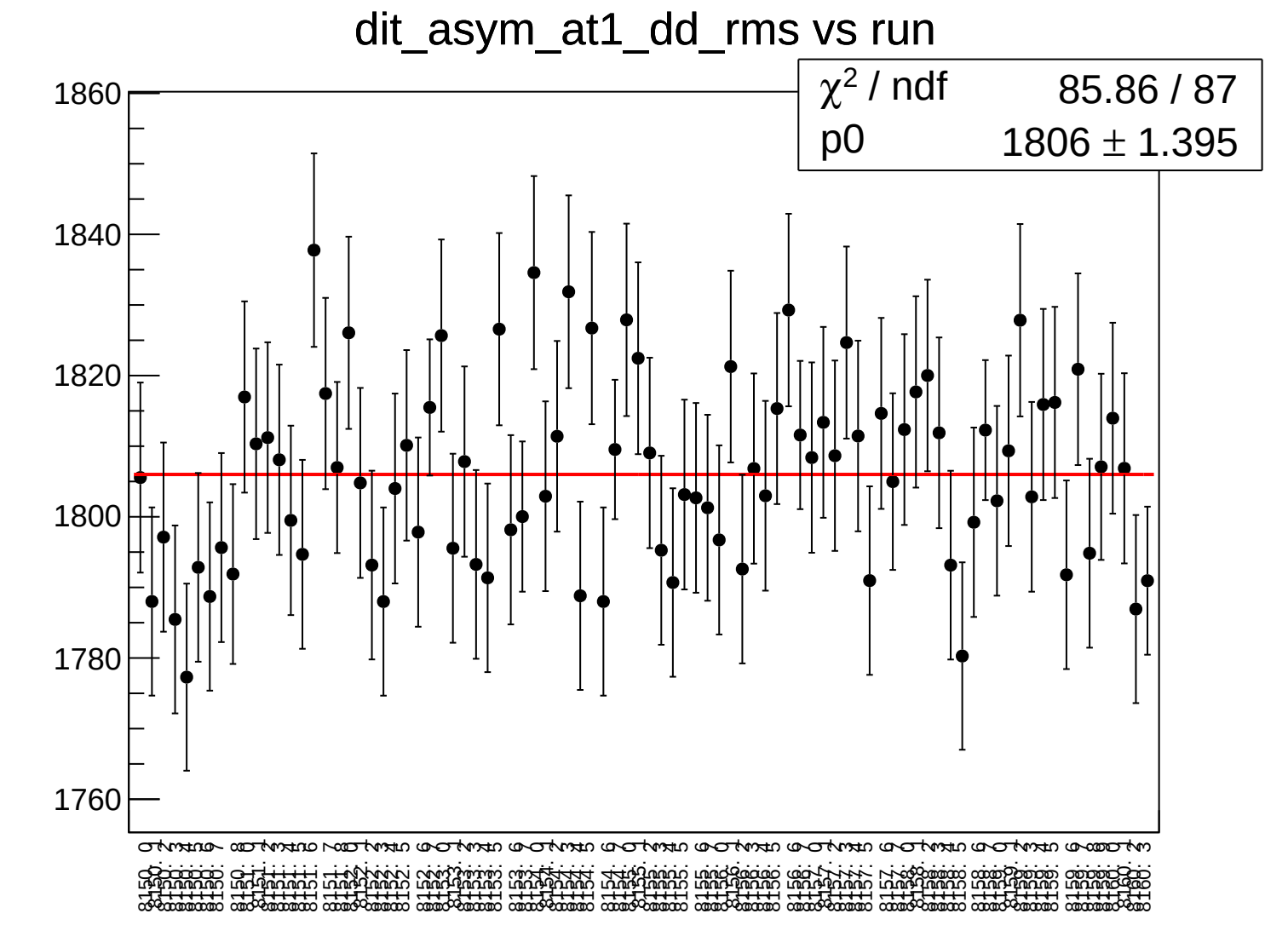

eigen_cor_asym_at1_dd_rms vs run
χ^2 / ndf 86.16 / 87
p0 1805 ± 1.394
1840
1820
1800
1780
1760

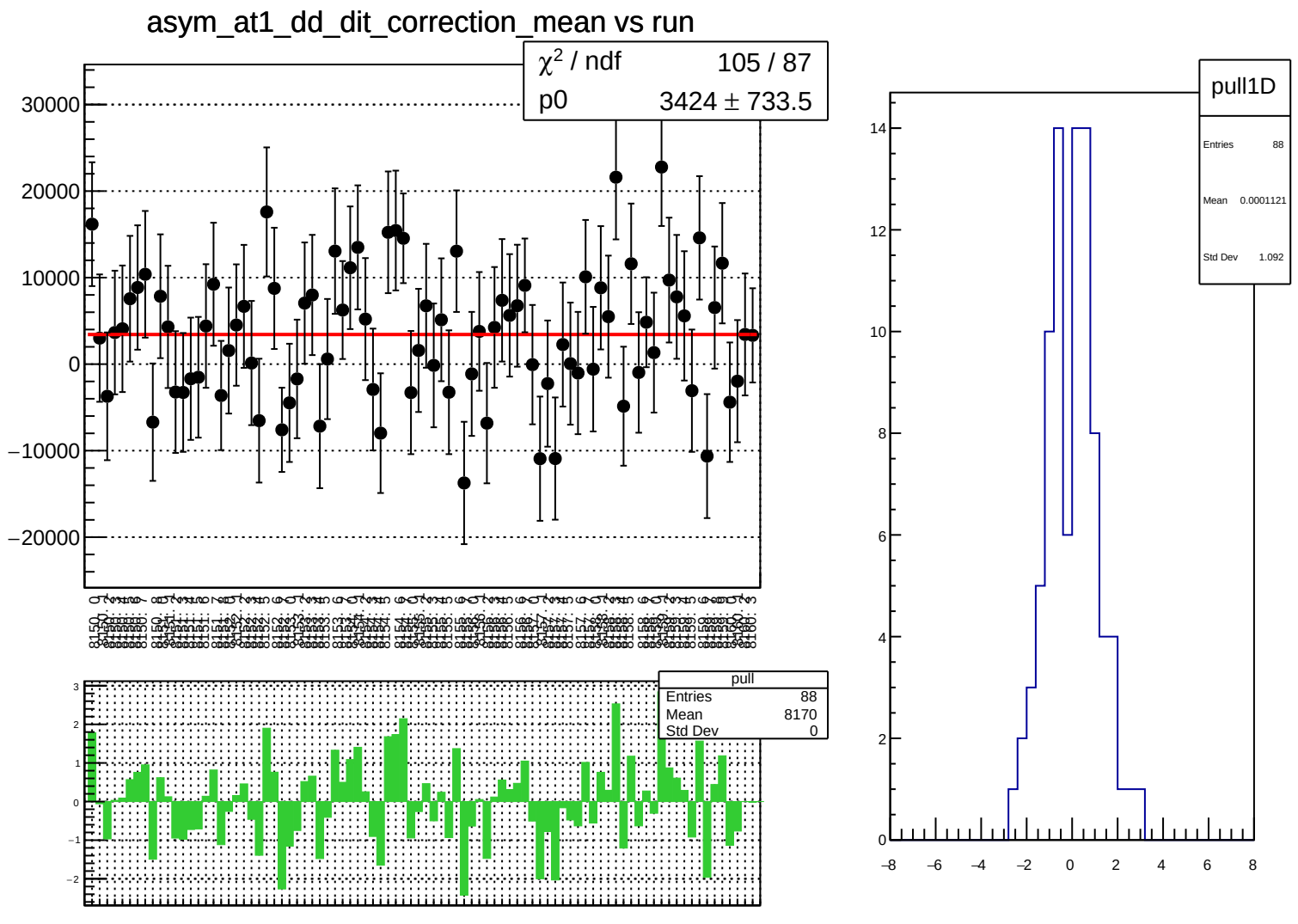

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.1 / 87
p0 3374 ± 711.8
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −623.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001334
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

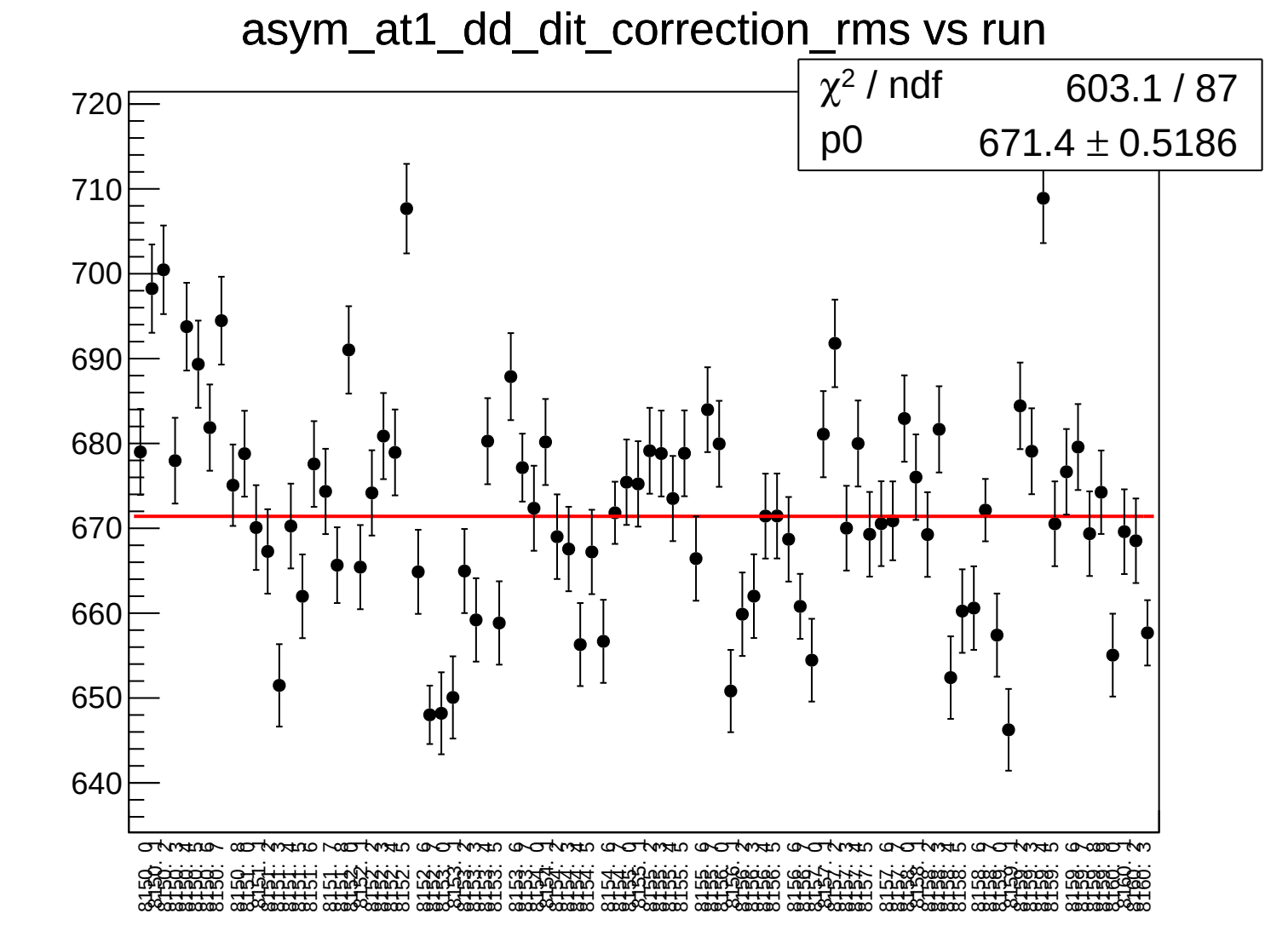

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2219 / 87
p0 651.2 ± 0.5033
740
720
700
680
660
640
620
600

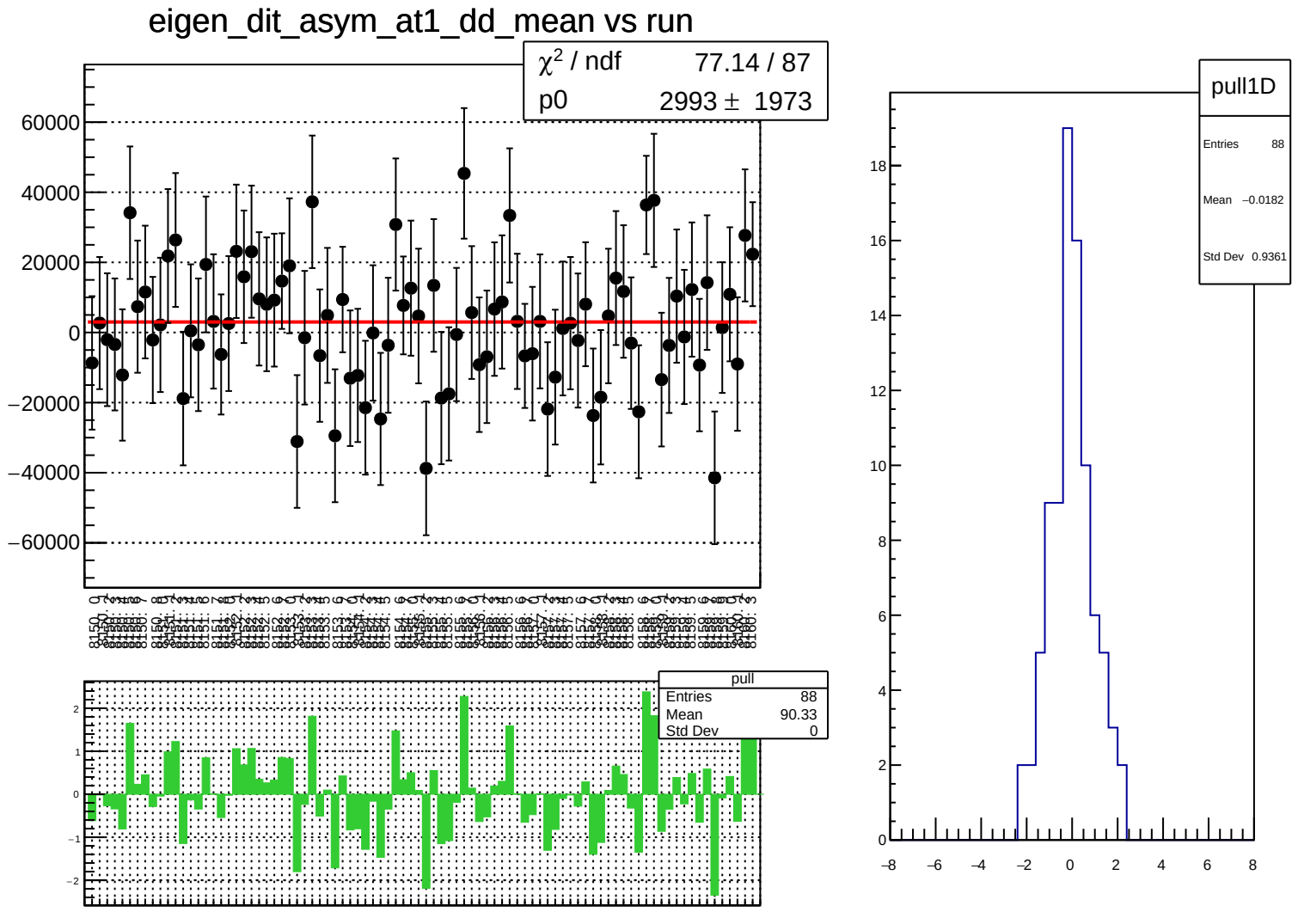

dit_asym_at1_dd_mean vs run
χ² / ndf 77.14 / 87
p0 2993 ± 1973
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 90.33
Std Dev 0
2
1
0
−1
−2

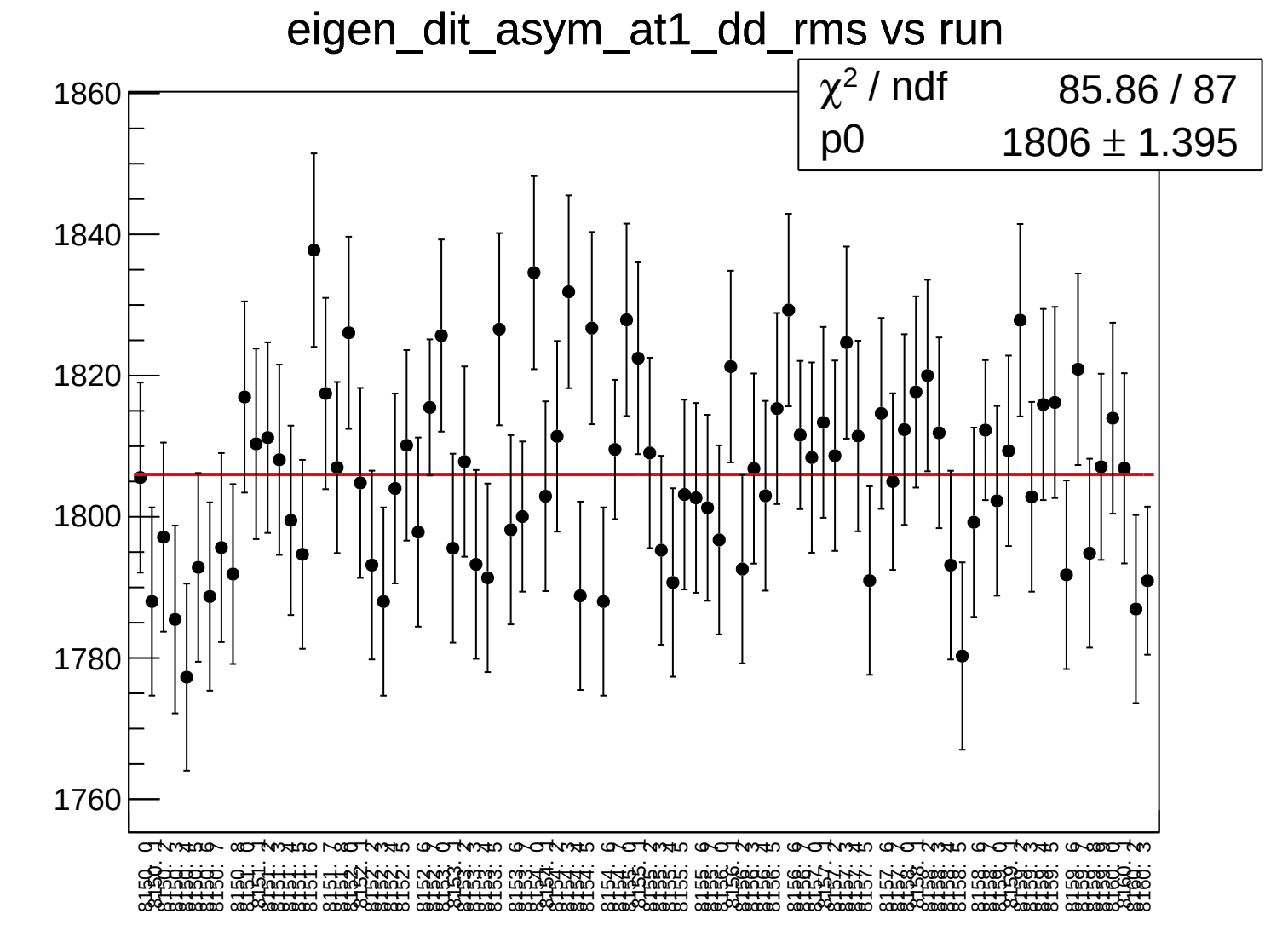

pull1D
Entries 88
Mean −0.0182
Std Dev 0.9361
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

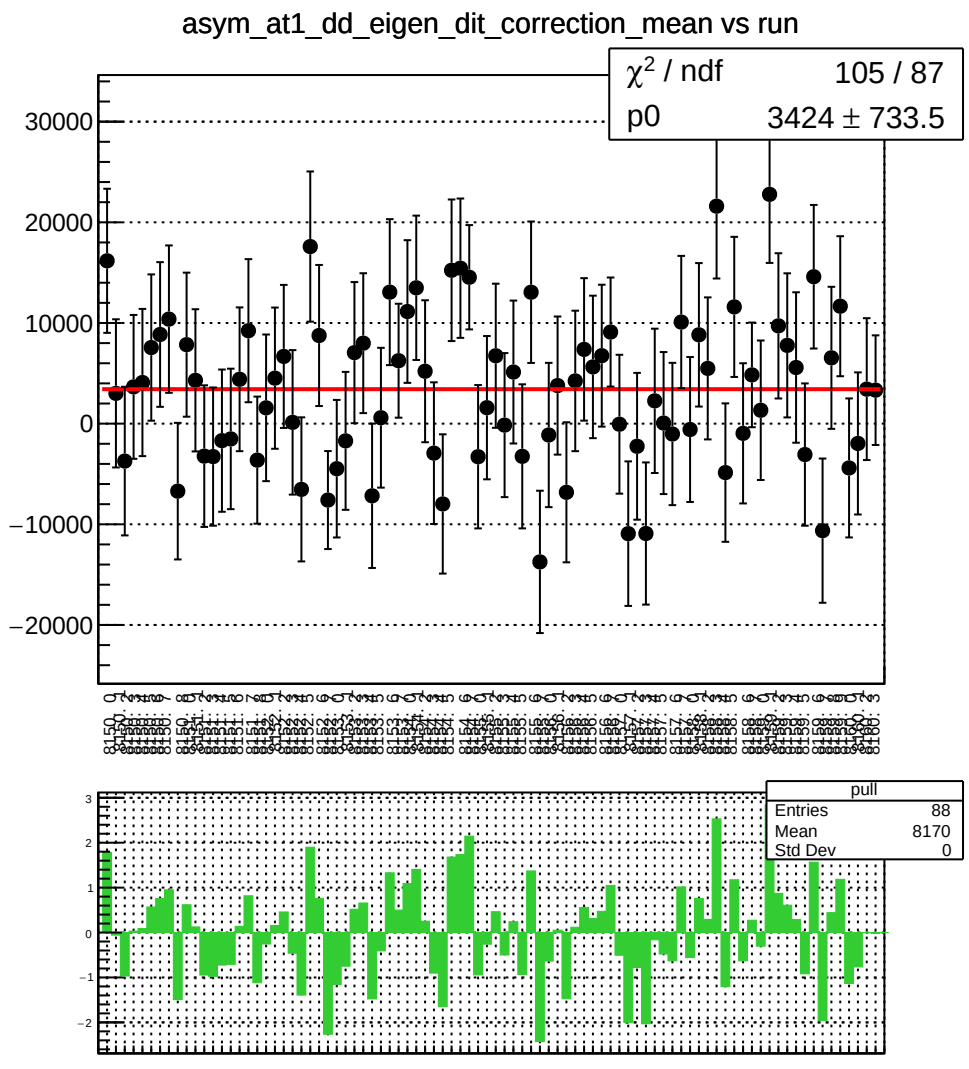

dit_asym_at1_dd_rms vs run
χ^2 / ndf 85.86 / 87
p0 1806 ± 1.395
1860
1840
1820
1800
1780
1760

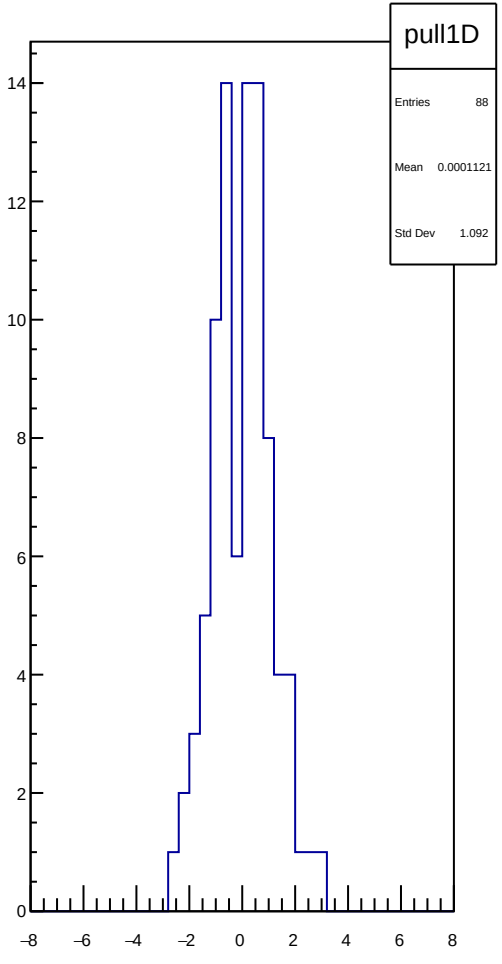

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 105 / 87
p0 3424 ± 733.5
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 8170
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0001121
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

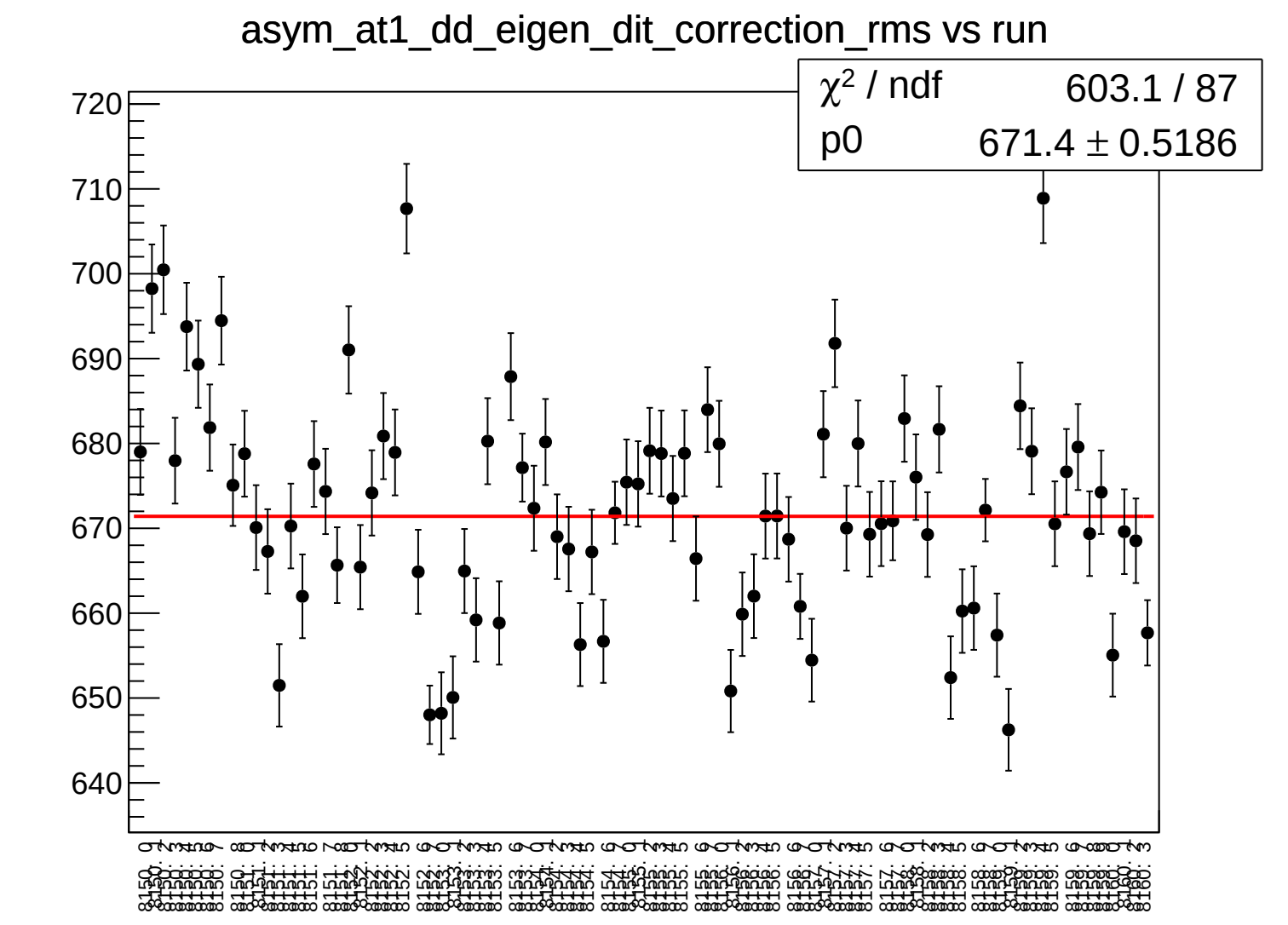

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 603.1 / 87
p0 671.4 ± 0.5186
720
710
700
690
680
670
660
650
640

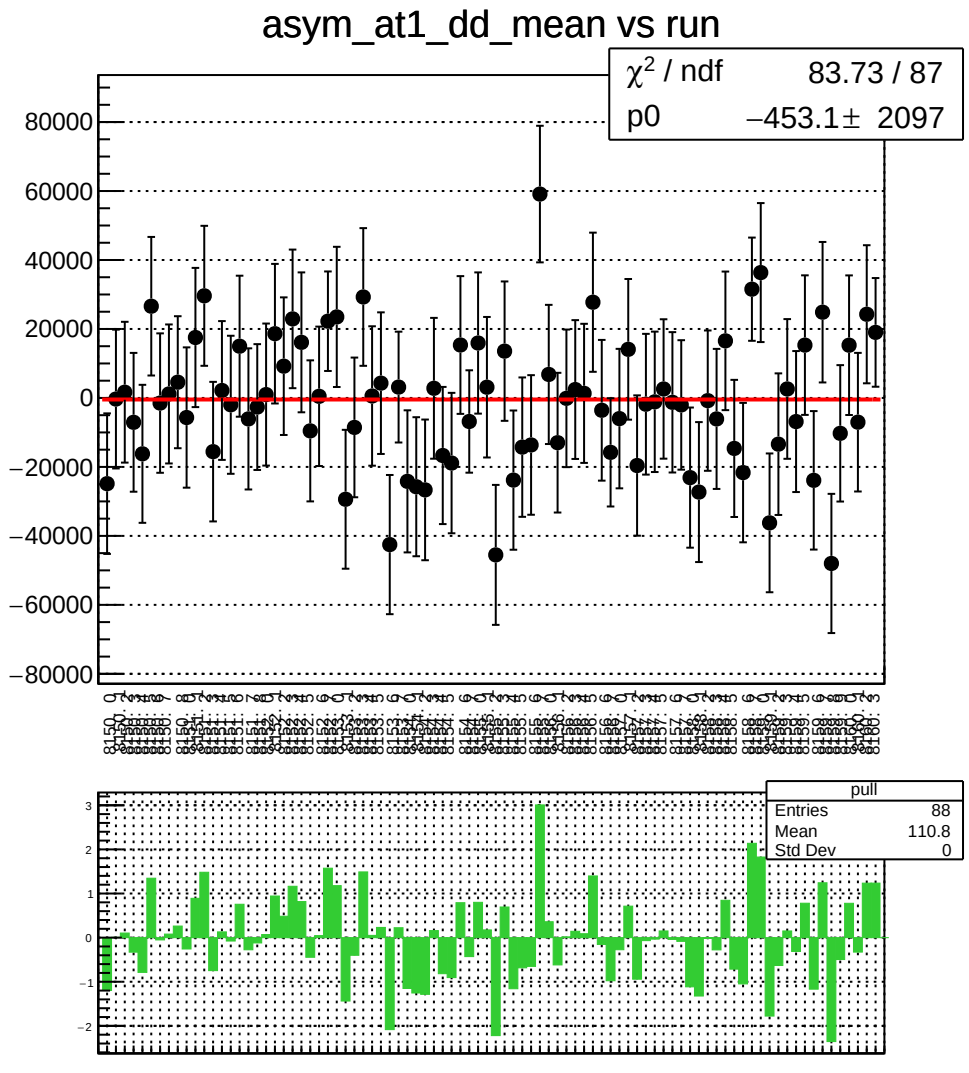

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 77.14 / 87
p0 2993 ± 1973
pull
Entries 88
Mean 90.33
Std Dev 0
pull1D
Entries 88
Mean −0.0182
Std Dev 0.9361

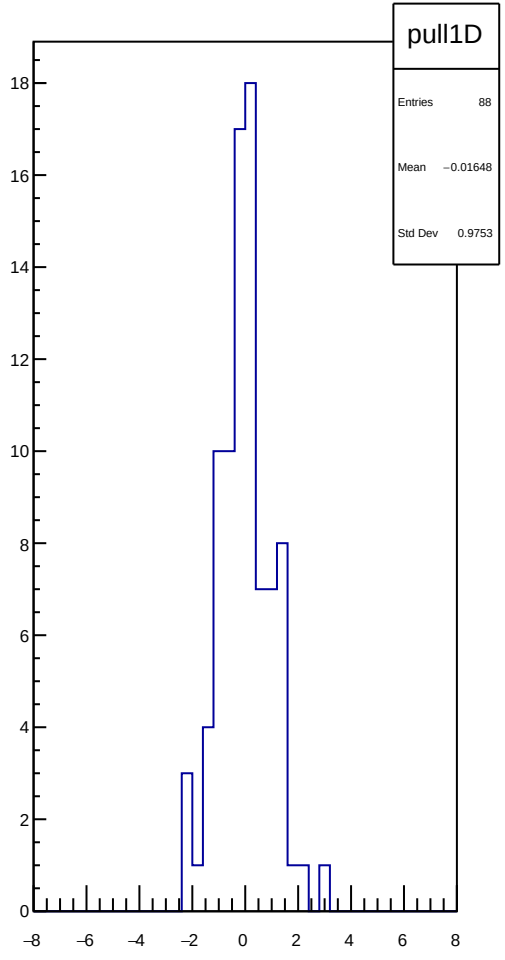

eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 85.86 / 87
p0 1806 ± 1.395
1860
1840
1820
1800
1780
1760

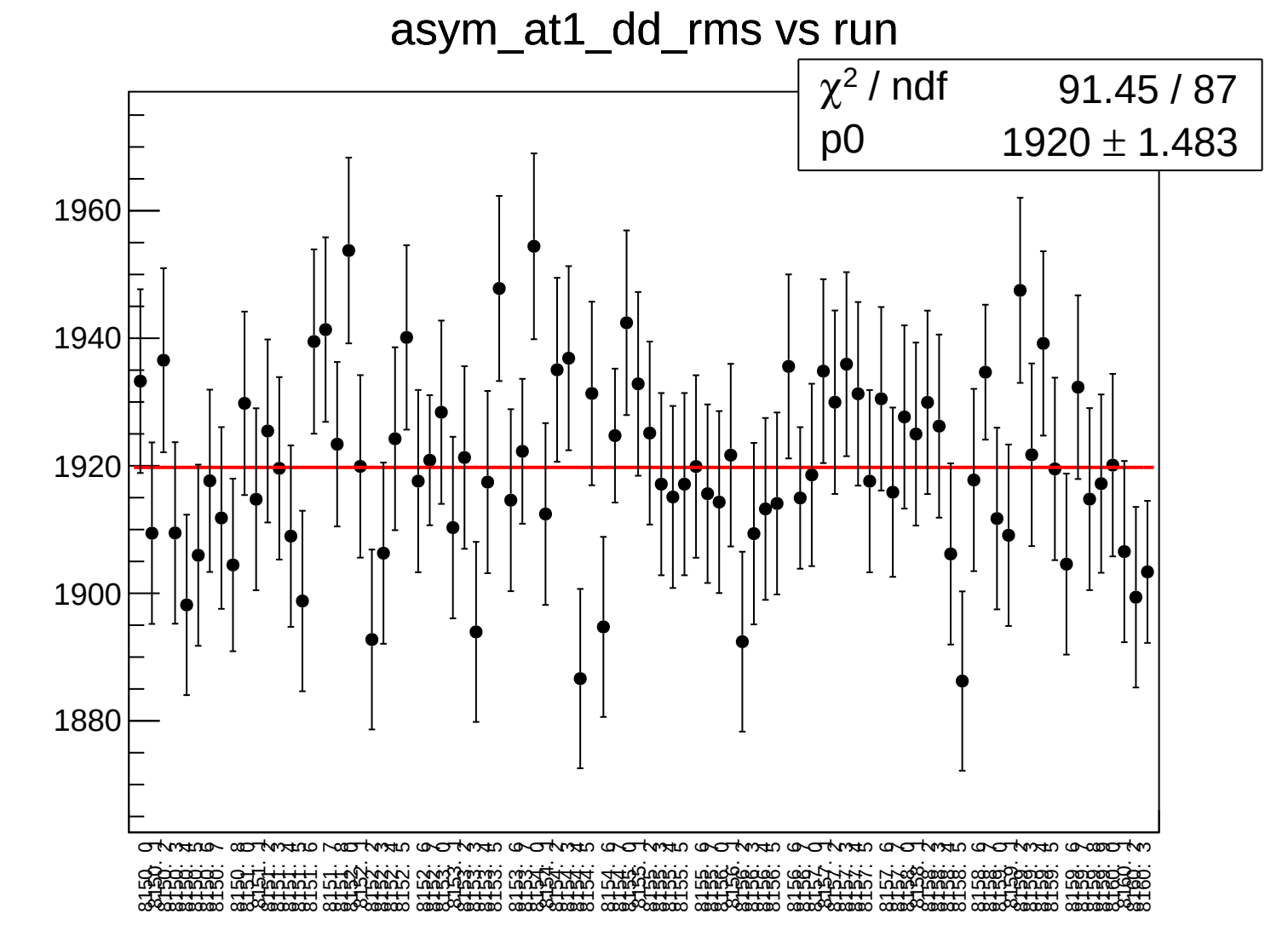

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 105 / 87
p0 3424 ± 733.5
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 8170
Std Dev 0
3
2
1
0
−1
−2

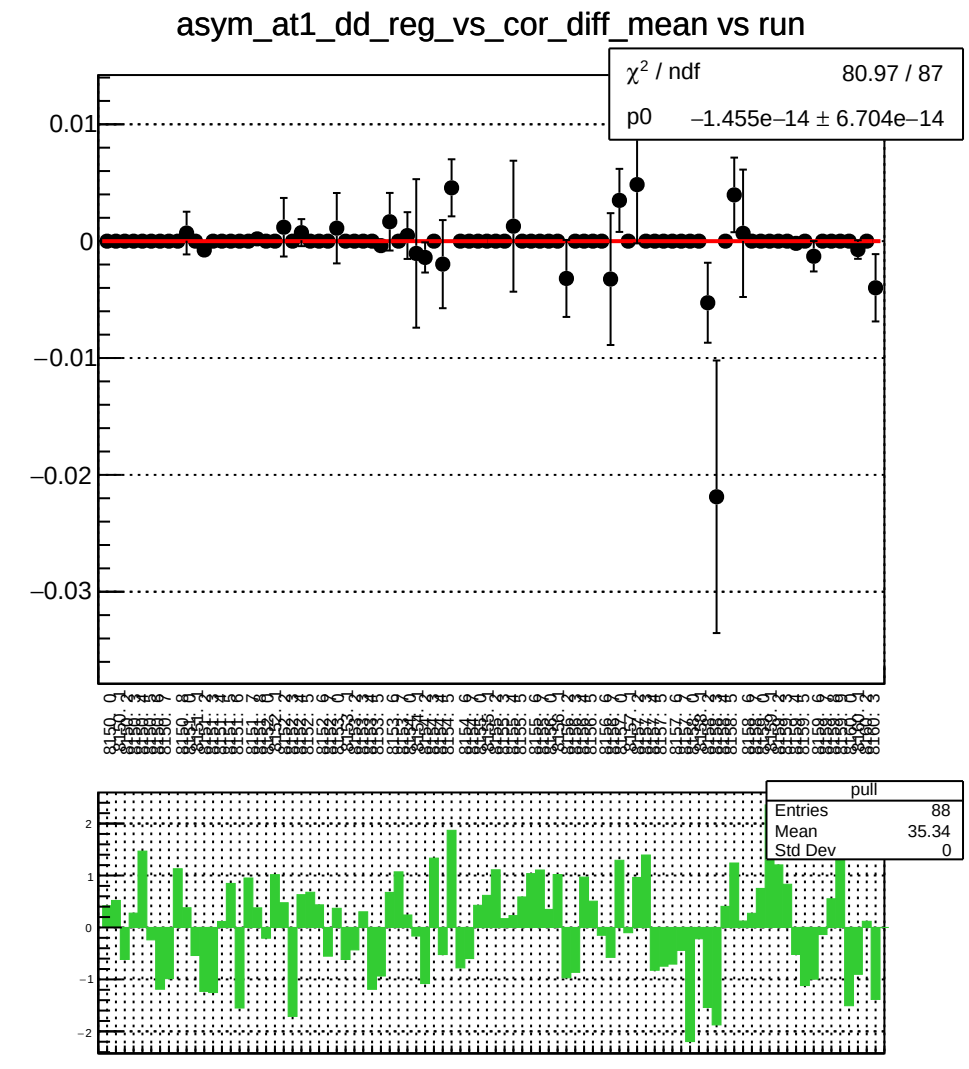

pull1D
Entries 88
Mean 0.0001121
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

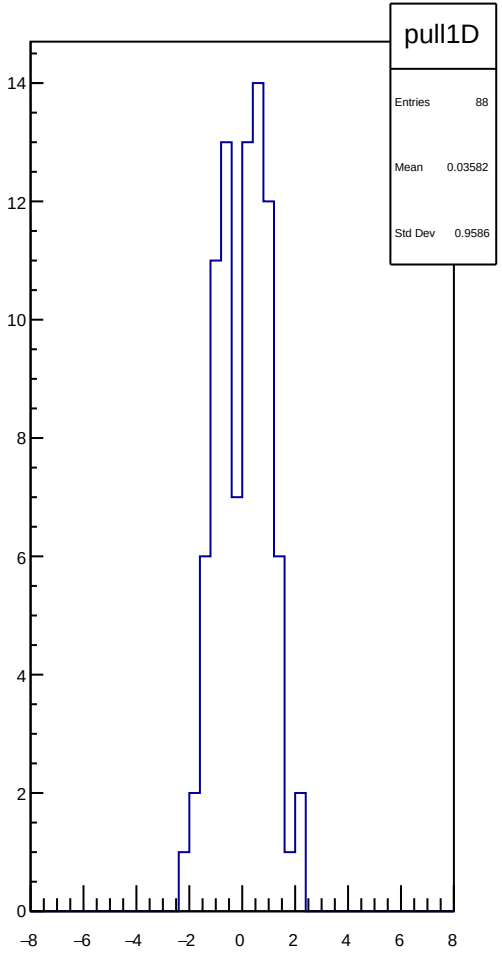

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 603.1 / 87
p0 671.4 ± 0.5186
720
710
700
690
680
670
660
650
640

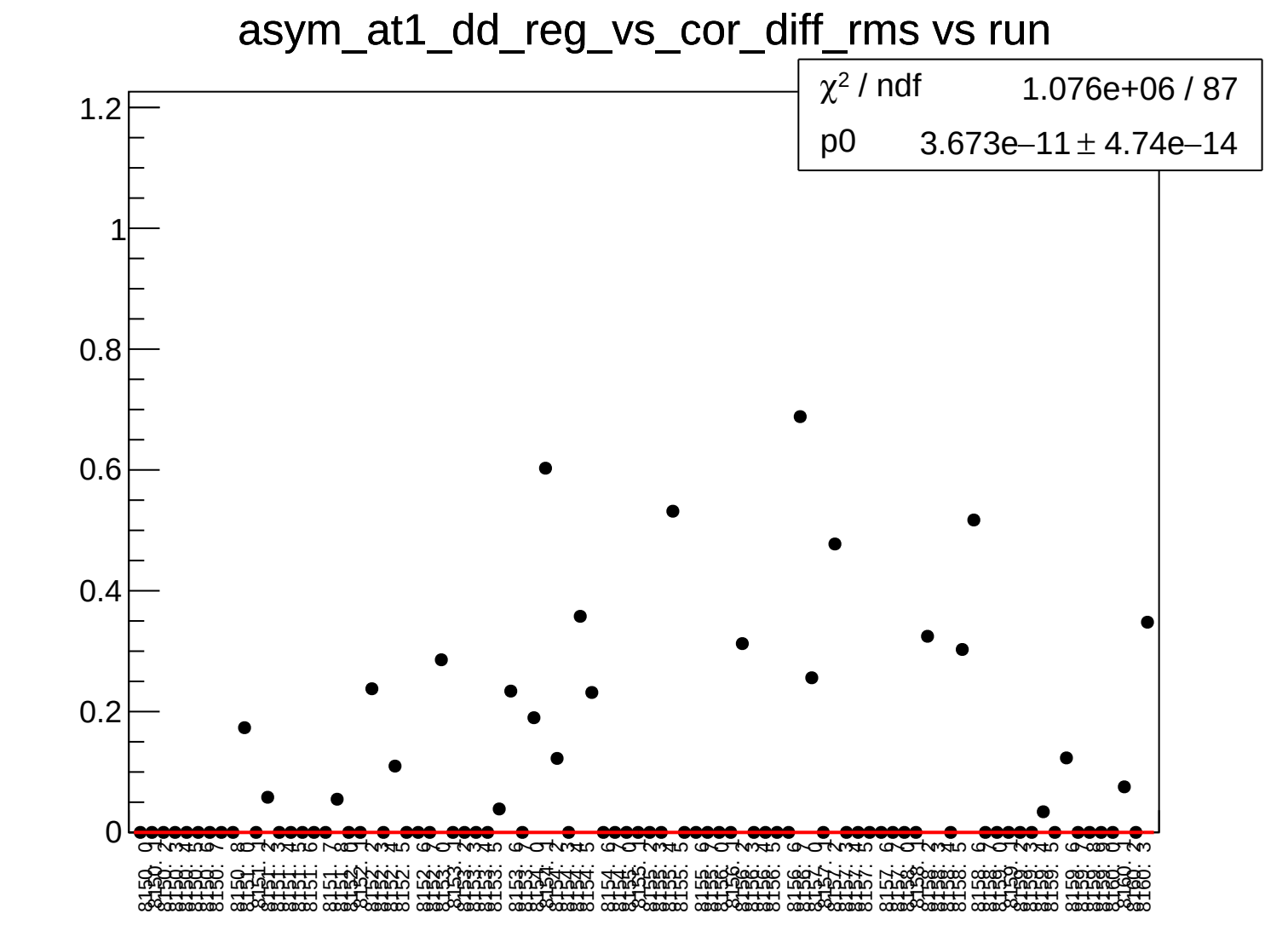

asym_at1_dd_mean vs run
χ² / ndf 83.73 / 87
p0 −453.1± 2097
pull
Entries 88
Mean 110.8
Std Dev 0

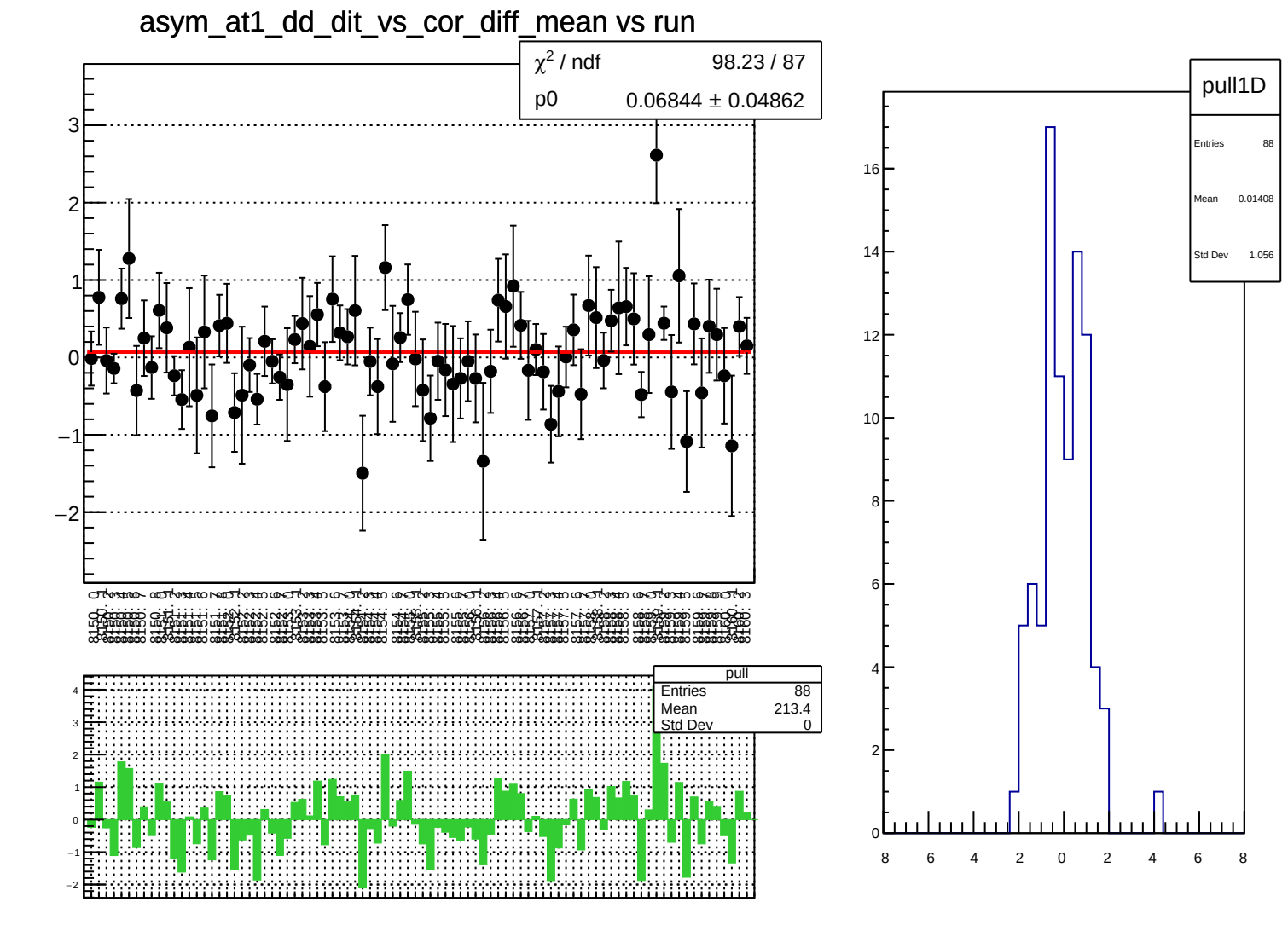

pull1D
Entries 88
Mean −0.01648
Std Dev 0.9753

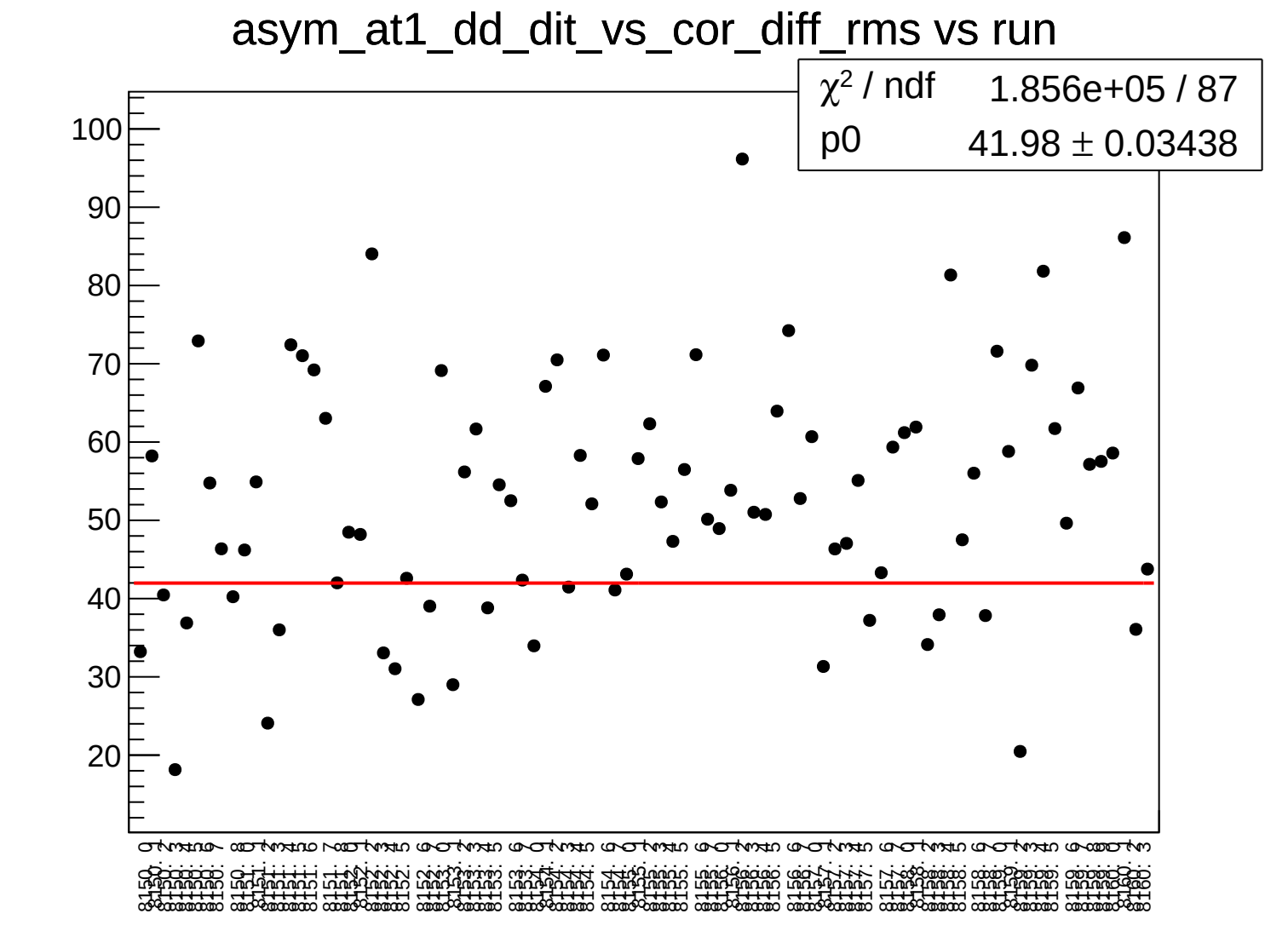

asym_at1_dd_rms vs run
χ^2 / ndf 91.45 / 87
p0 1920 ± 1.483
1960
1940
1920
1900
1880

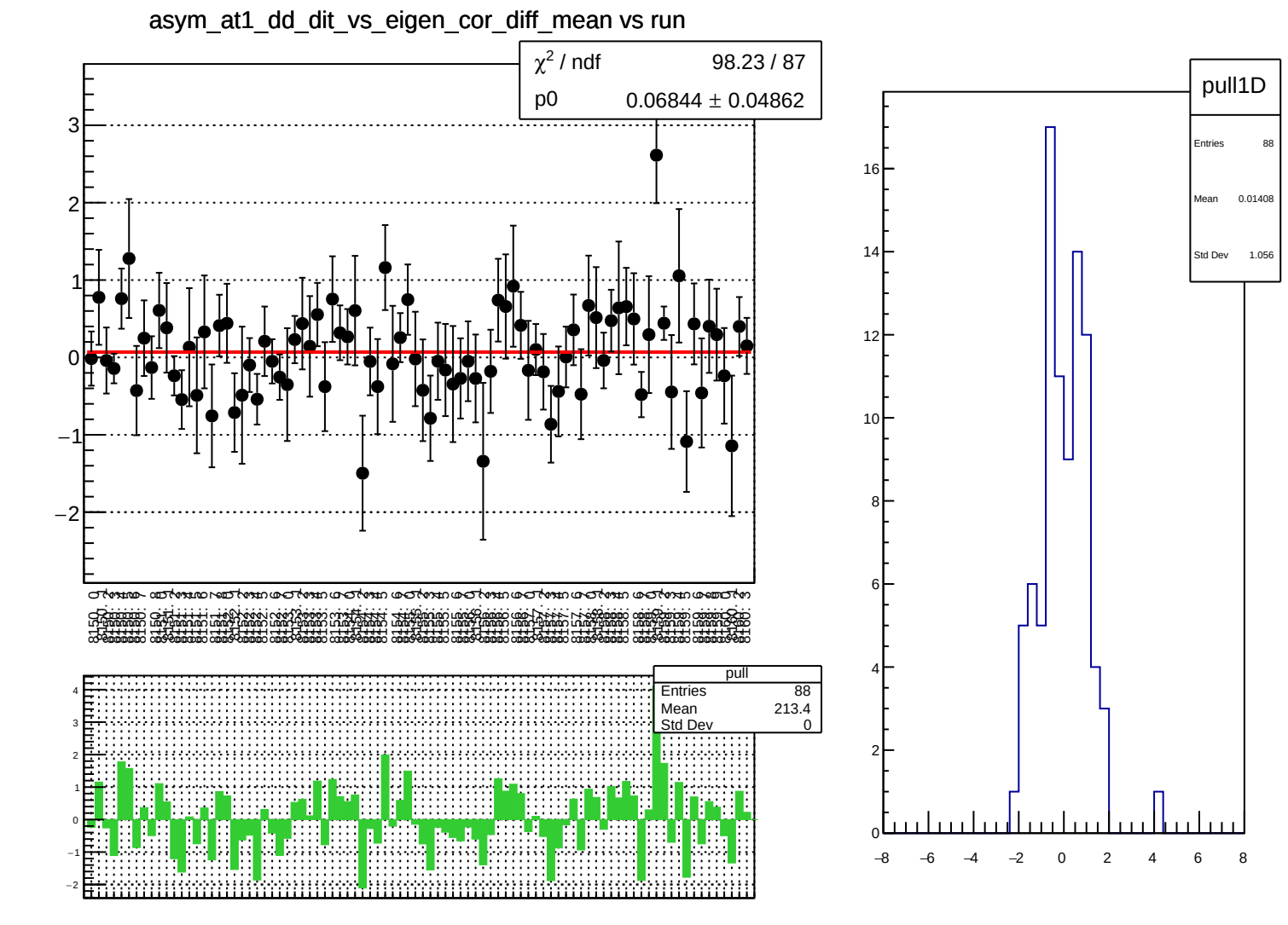

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.97 / 87
p0 −1.455e−14 ± 6.704e−14
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 35.34
Std Dev 0
2
1
0
−1
−2

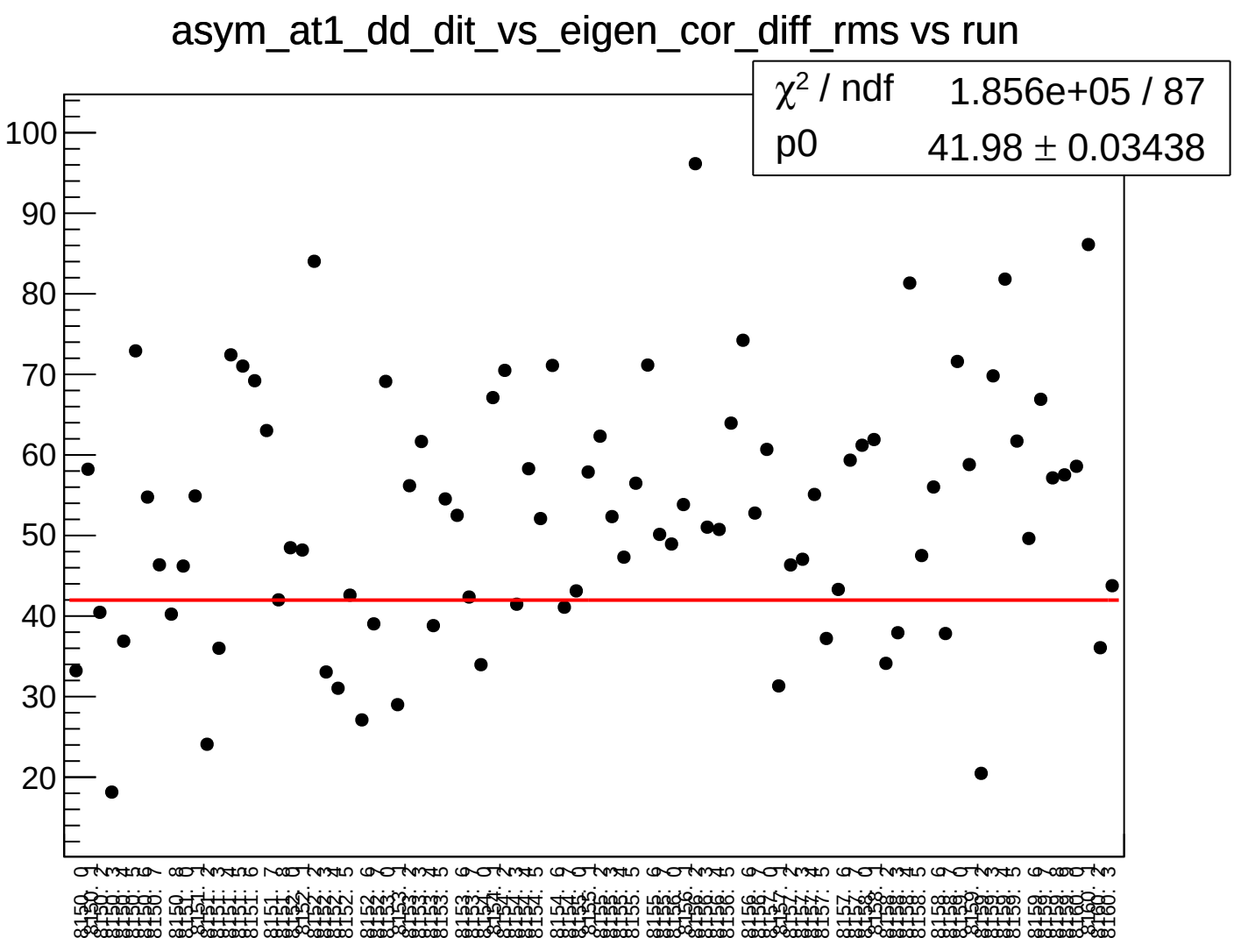

pull1D
Entries 88
Mean 0.03582
Std Dev 0.9586
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

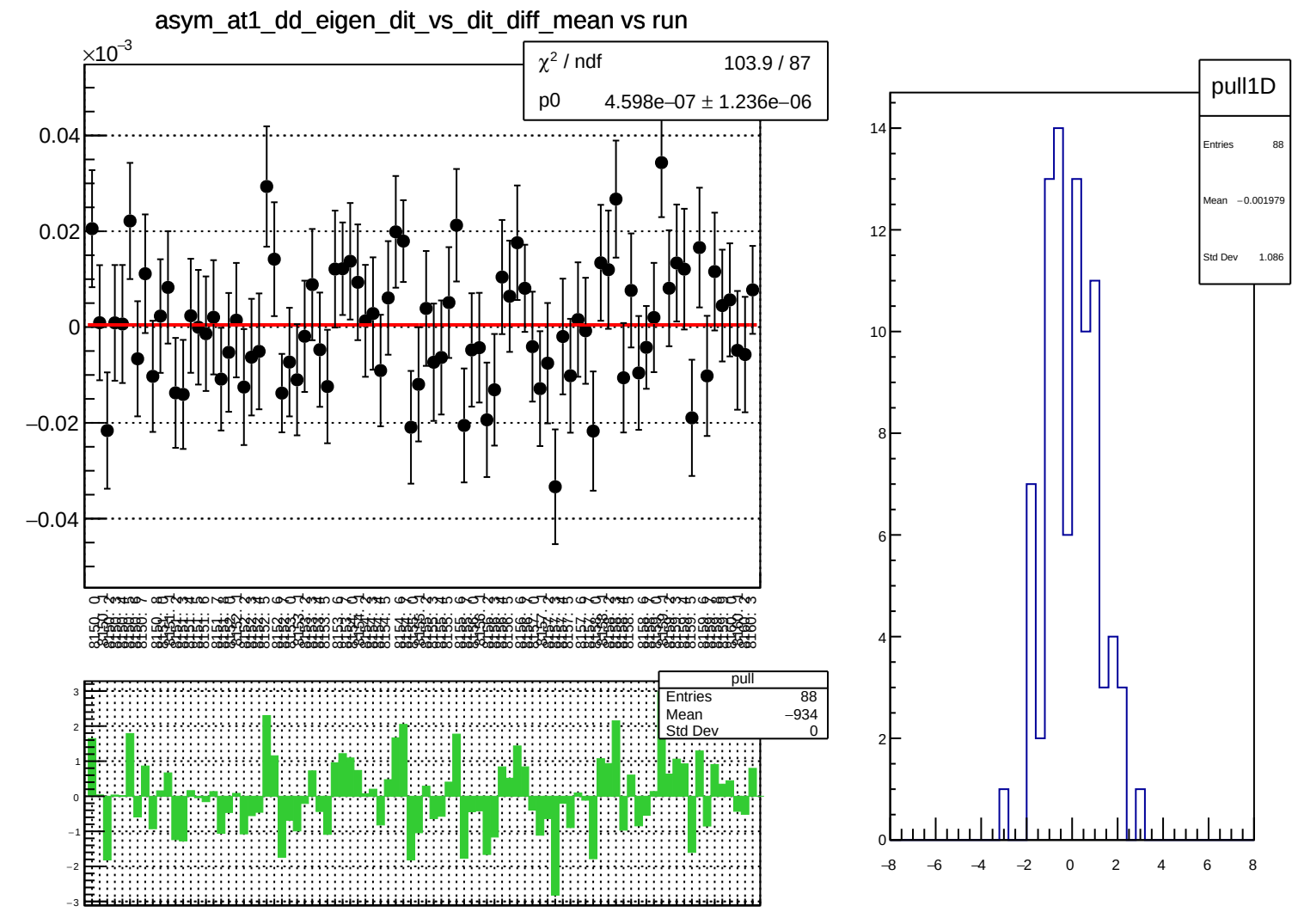

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.076e+06 / 87
p0 3.673e−11 ± 4.74e−14
1.2
1
0.8
0.6
0.4
0.2
0

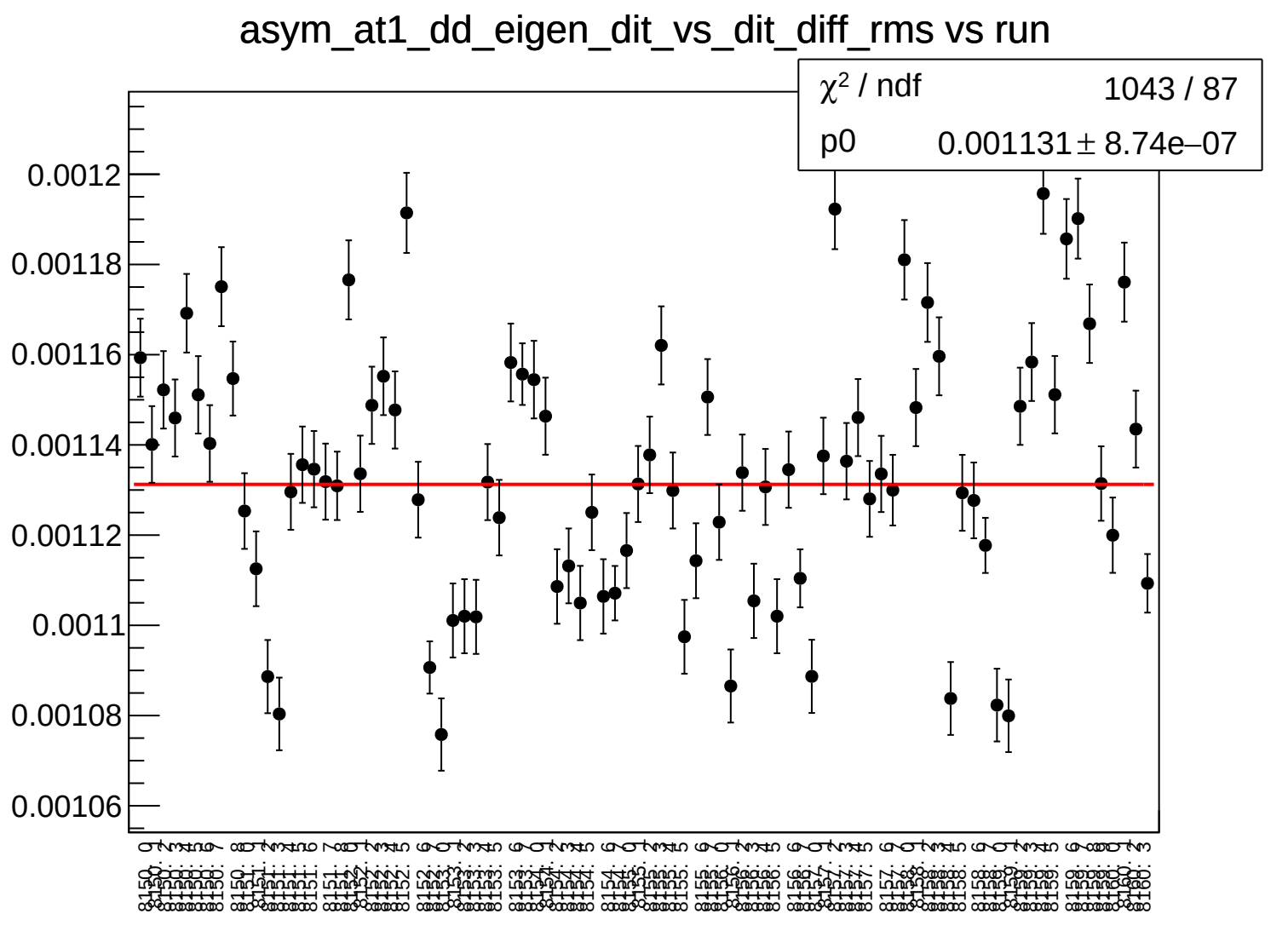

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.23 / 87
p0 0.06844 ± 0.04862
pull
Entries 88
Mean 213.4
Std Dev 0
pull1D
Entries 88
Mean 0.01408
Std Dev 1.056

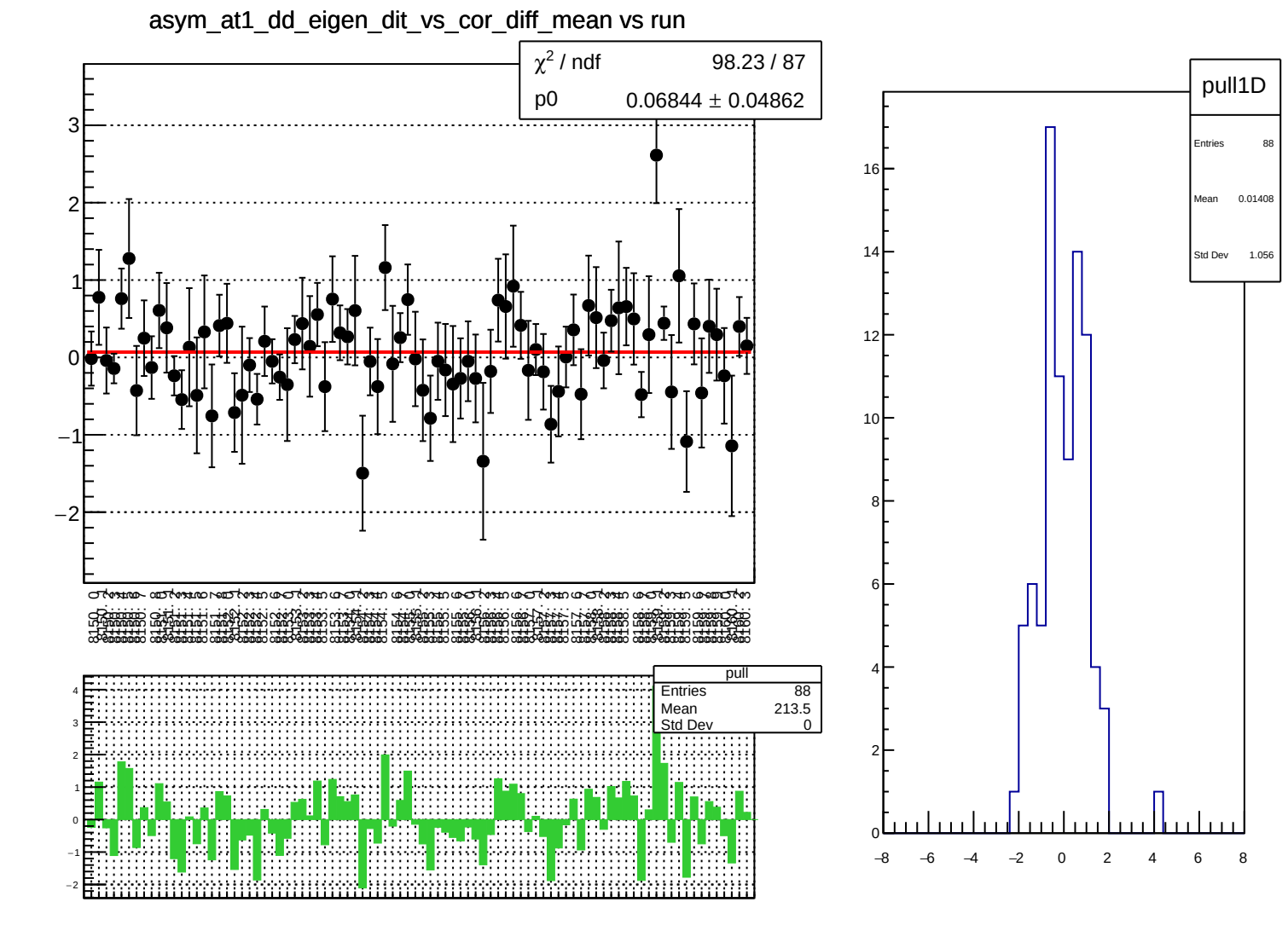

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.856e+05 / 87
p0 41.98 ± 0.03438
100
90
80
70
60
50
40
30
20

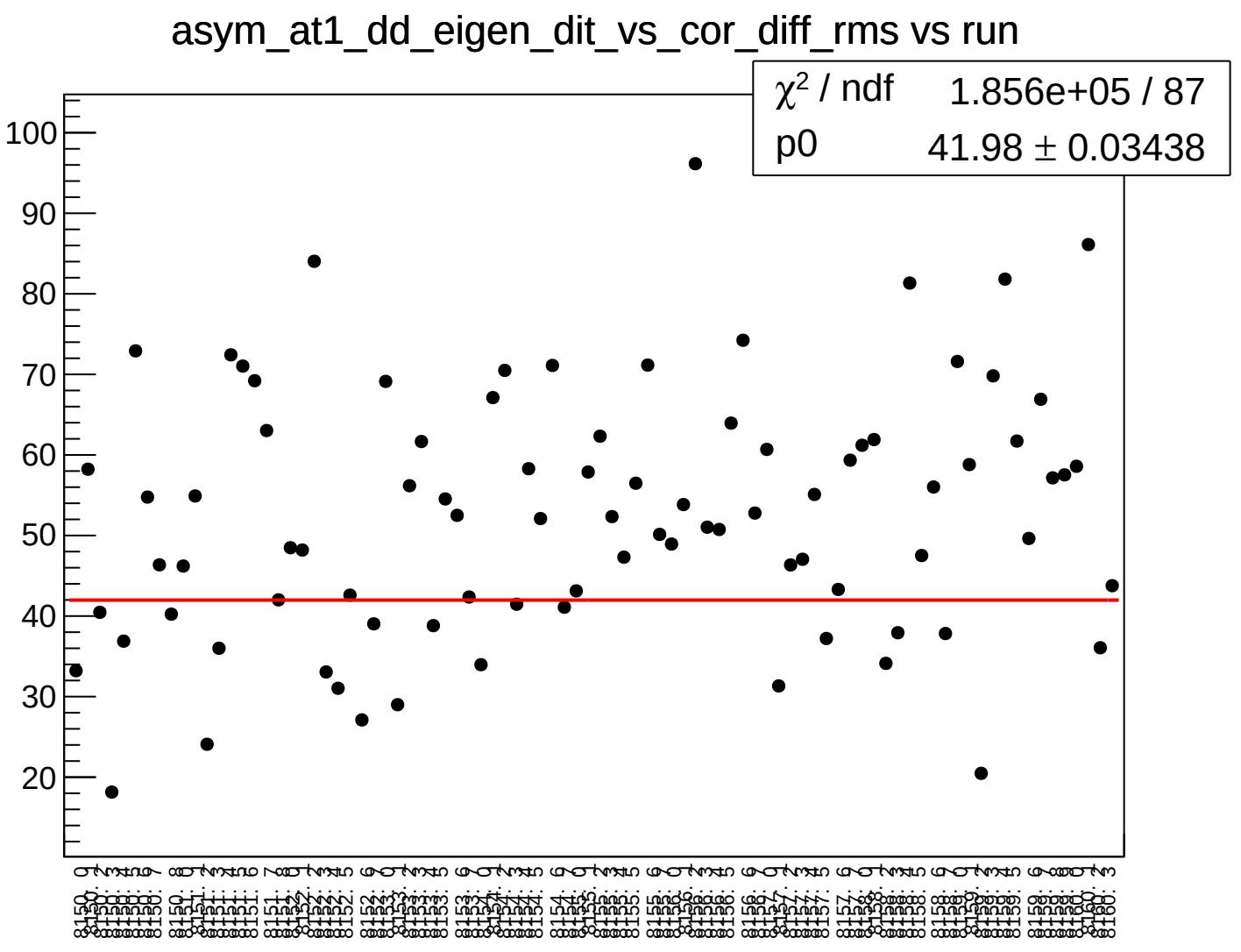

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.23 / 87
p0 0.06844 ± 0.04862
pull
Entries 88
Mean 213.4
Std Dev 0
pull1D
Entries 88
Mean 0.01408
Std Dev 1.056

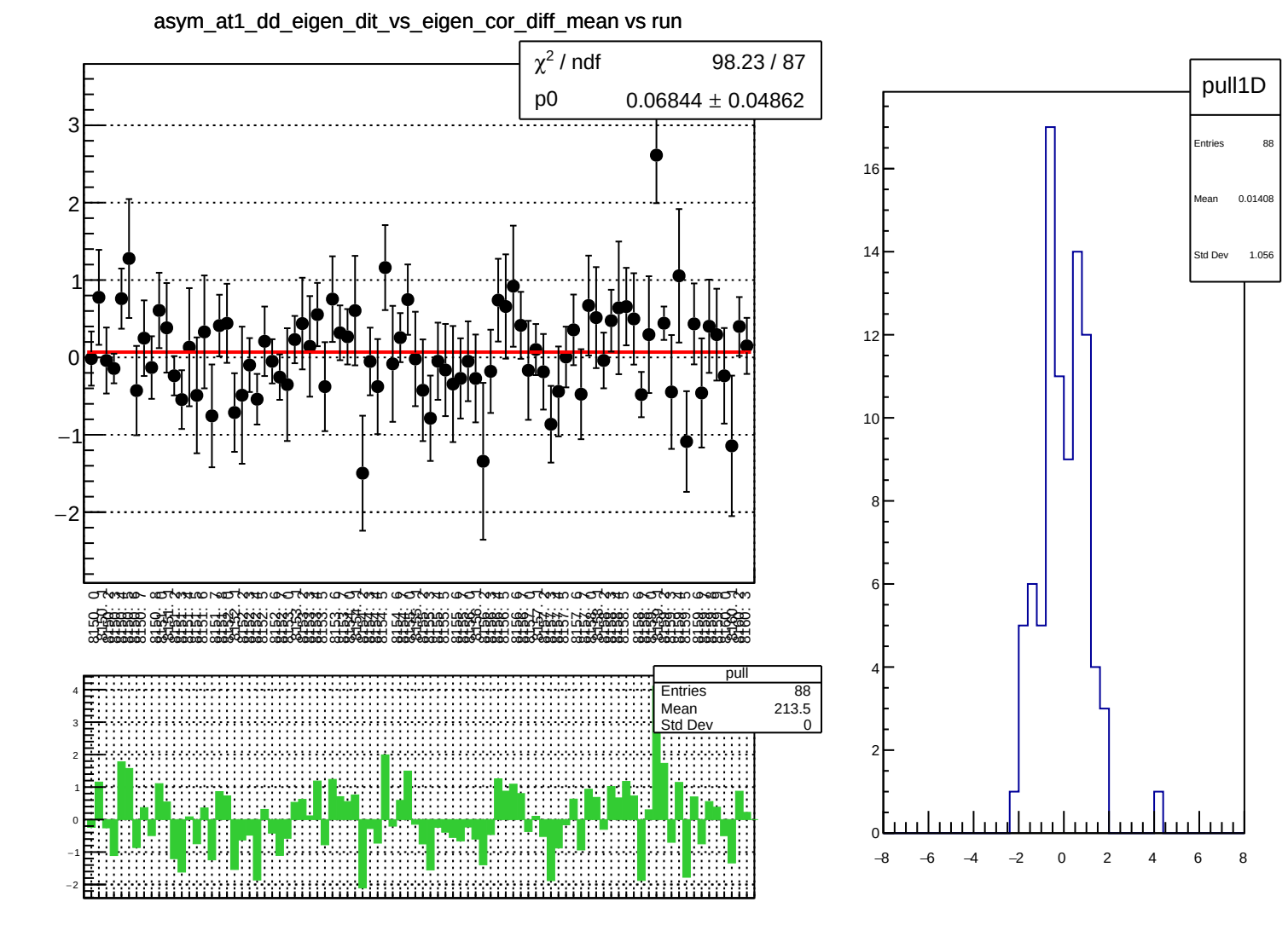

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.856e+05 / 87
p0 41.98 ± 0.03438
100
90
80
70
60
50
40
30
20

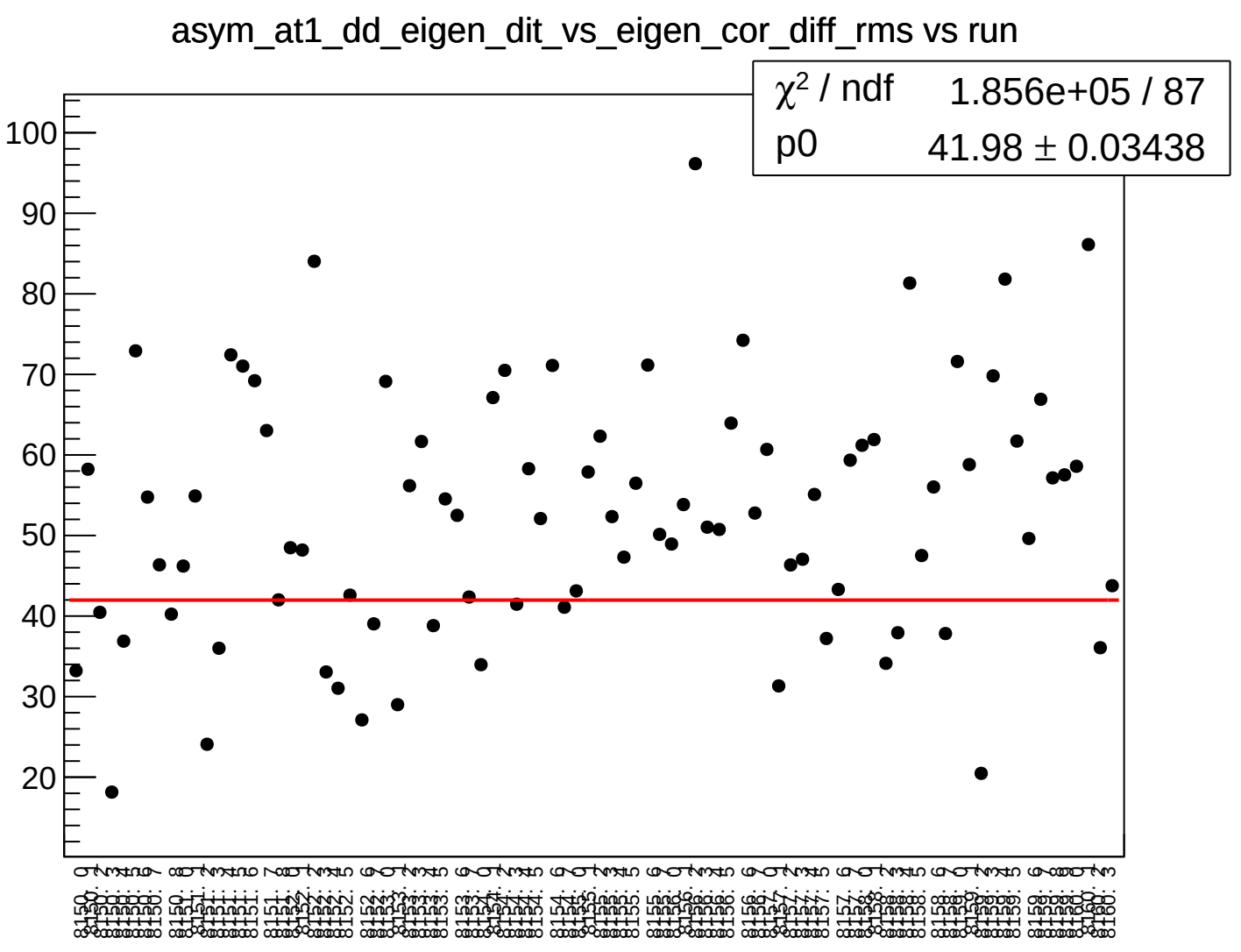

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.9 / 87
p0 4.598e−07 ± 1.236e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean −934
Std Dev 0
pull1D
Entries 88
Mean −0.001979
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

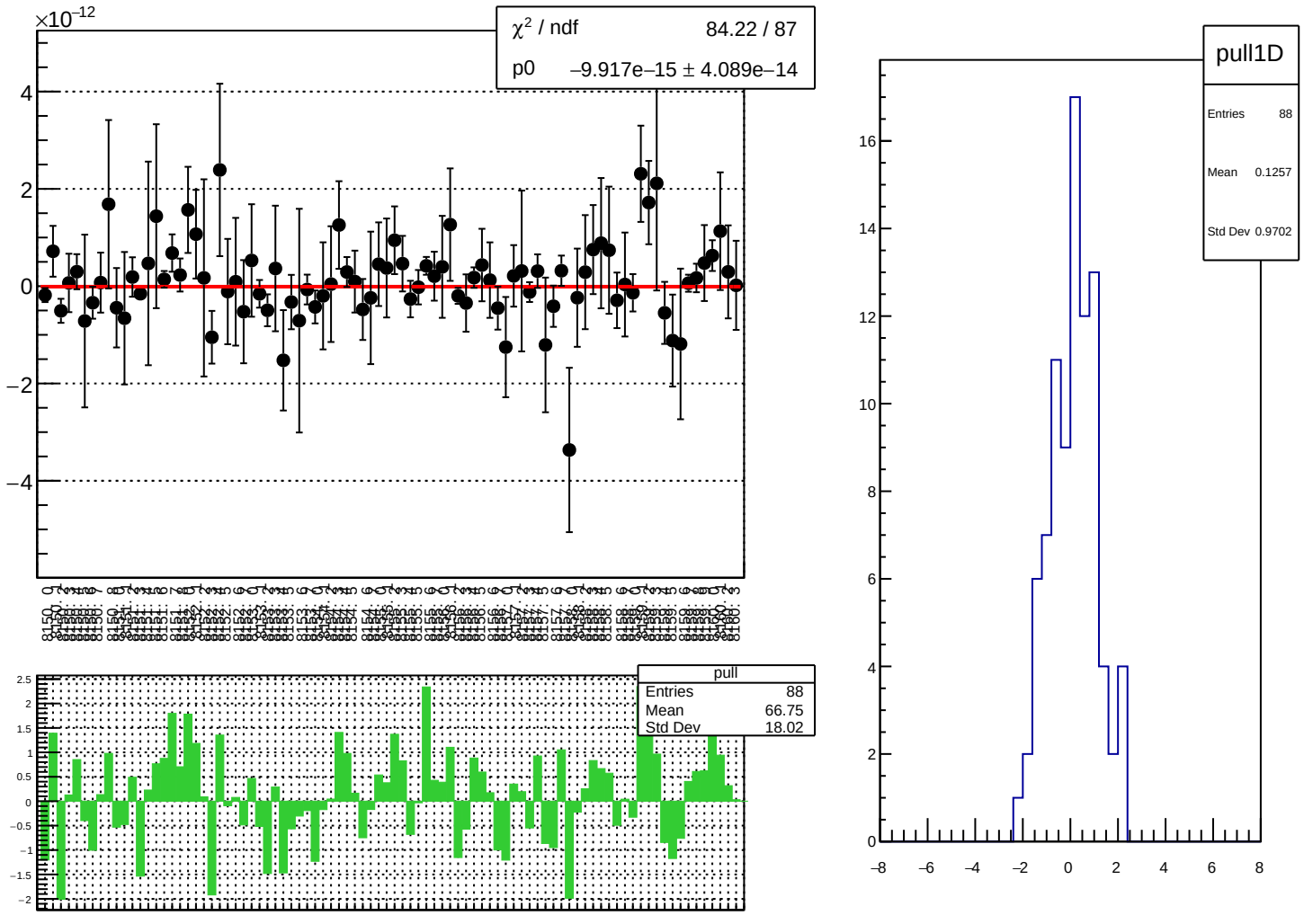

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1043 / 87
p0 0.001131 ± 8.74e–07
0.0012
0.00118
0.00116
0.00114
0.00112
0.0011
0.00108
0.00106

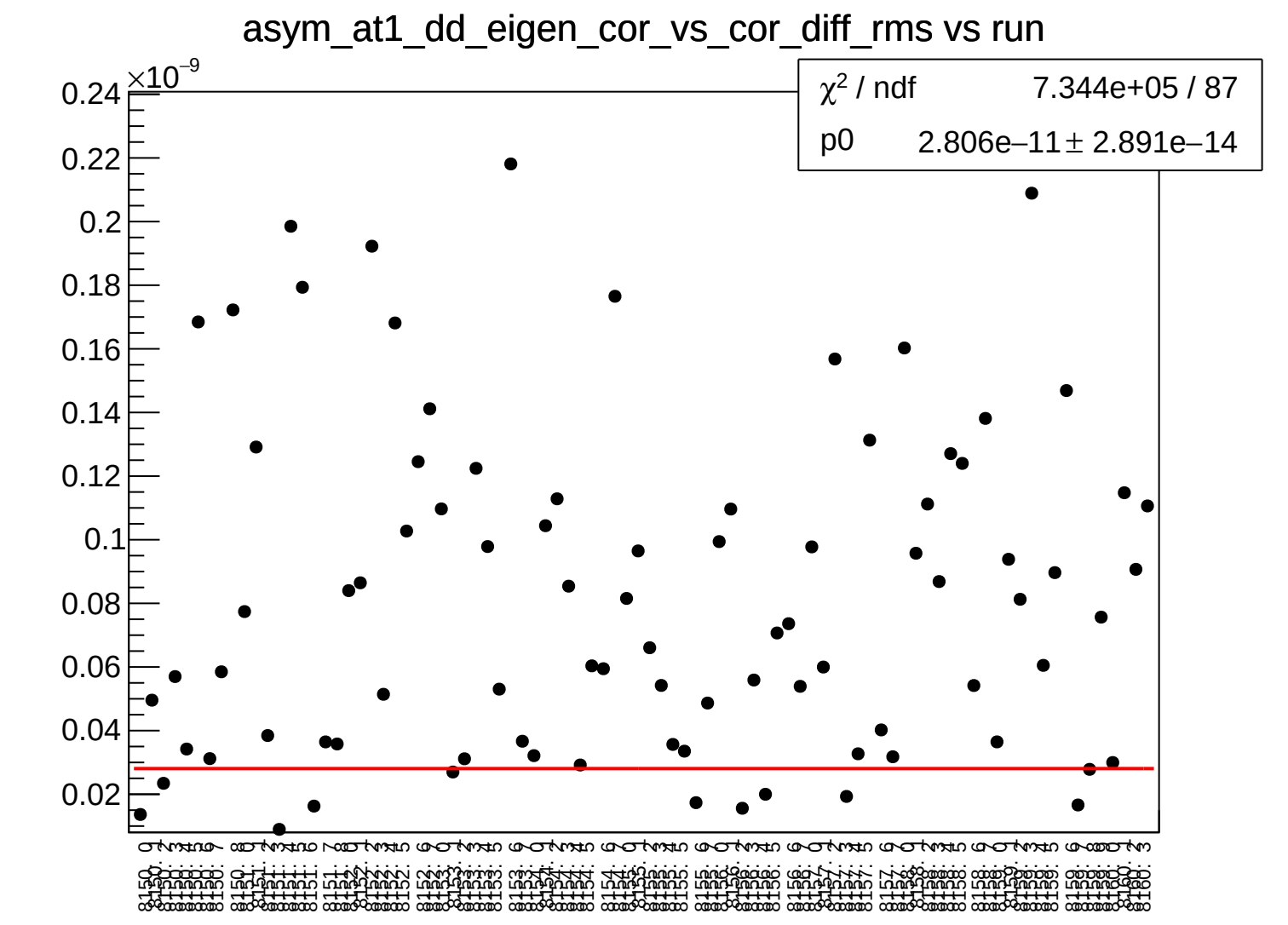

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.23 / 87
p0 0.06844 ± 0.04862
pull
Entries 88
Mean 213.5
Std Dev 0
pull1D
Entries 88
Mean 0.01408
Std Dev 1.056

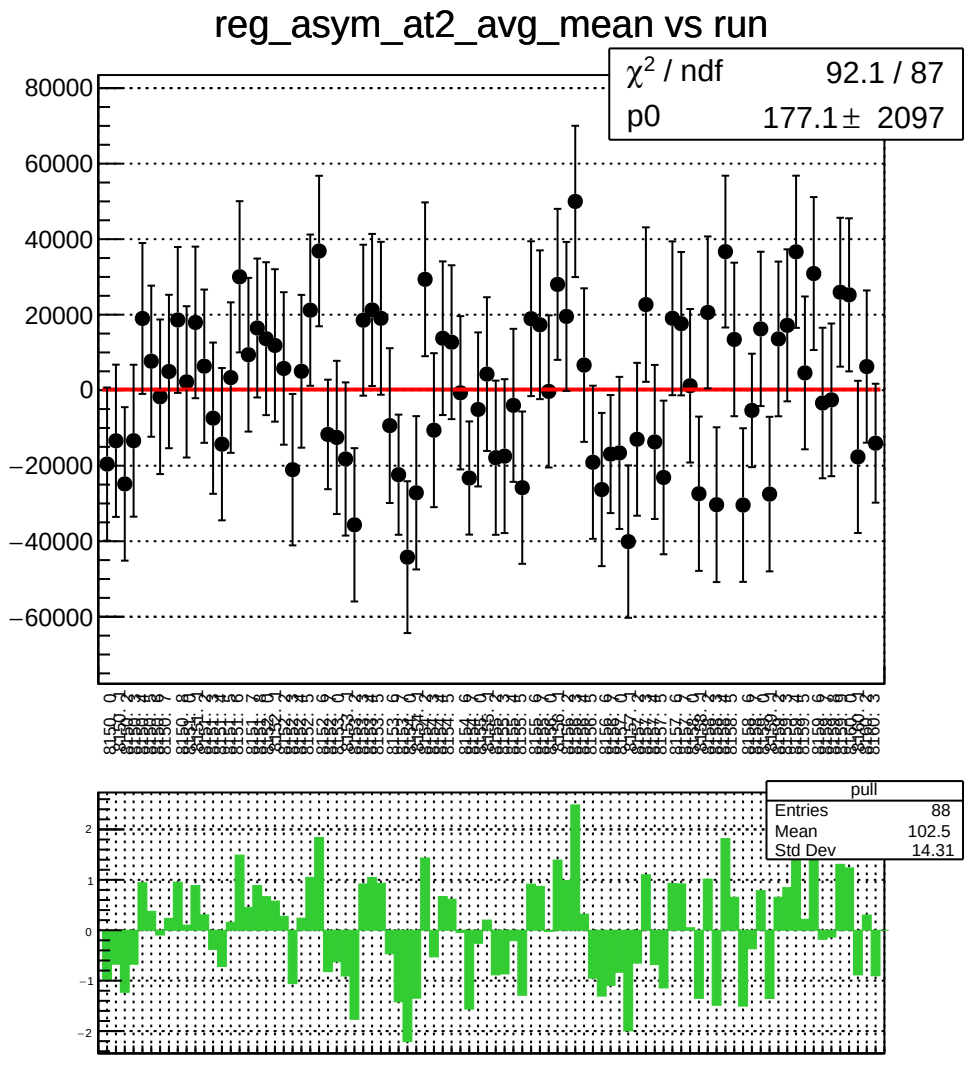

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.856e+05 / 87
p0 41.98 ± 0.03438
100
90
80
70
60
50
40
30
20

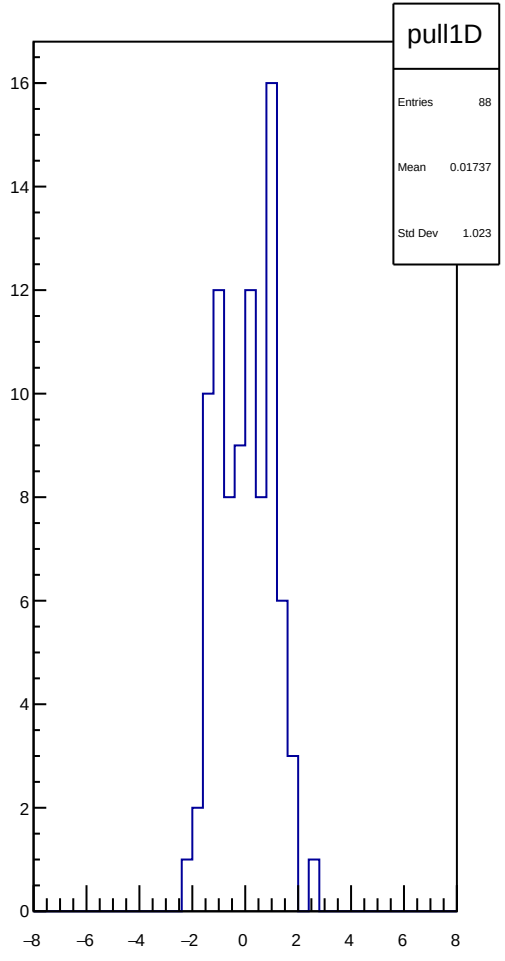

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.23 / 87
p0 0.06844 ± 0.04862
pull
Entries 88
Mean 213.5
Std Dev 0
pull1D
Entries 88
Mean 0.01408
Std Dev 1.056

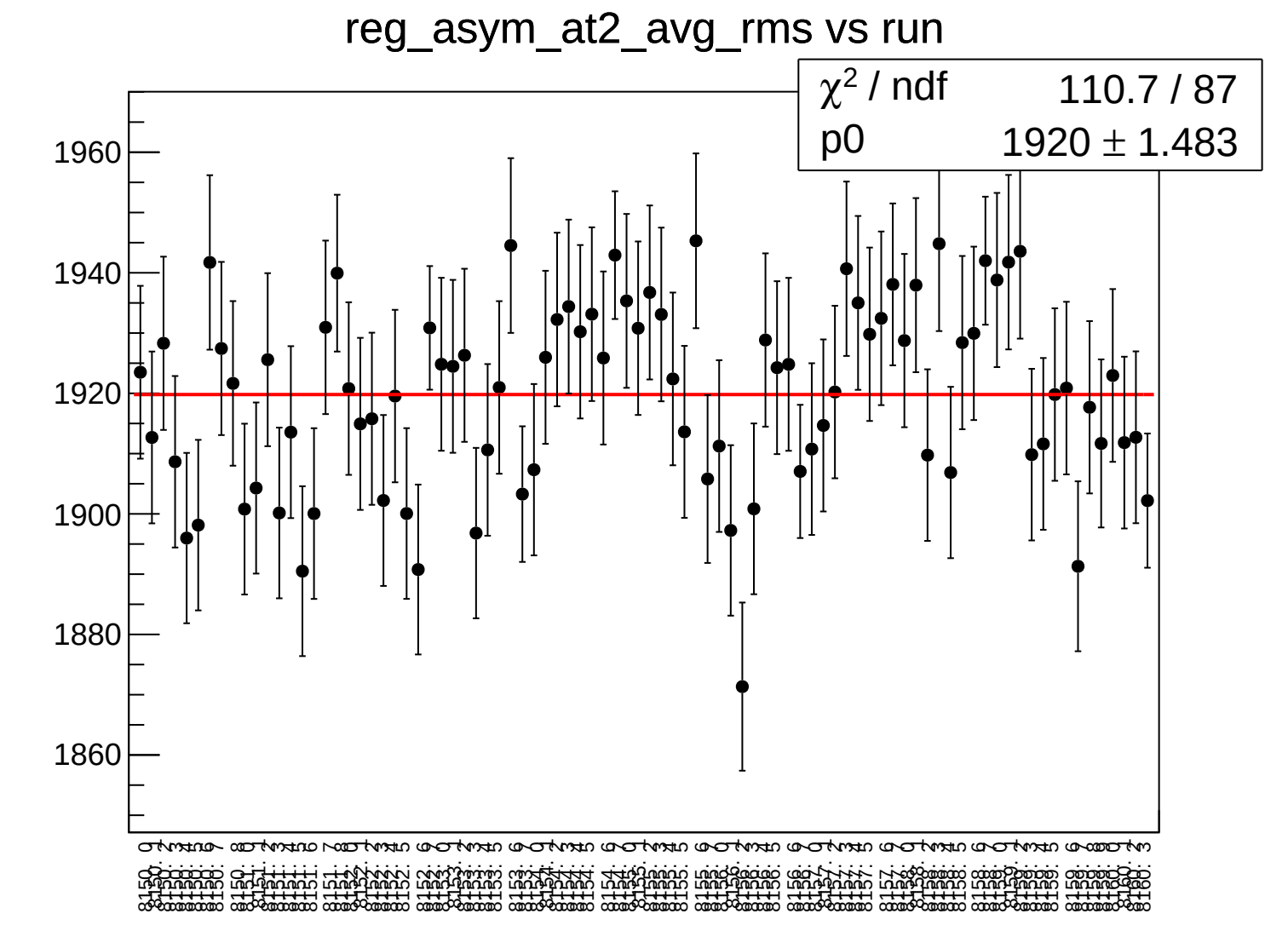

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.856e+05 / 87
p0 41.98 ± 0.03438
100
90
80
70
60
50
40
30
20

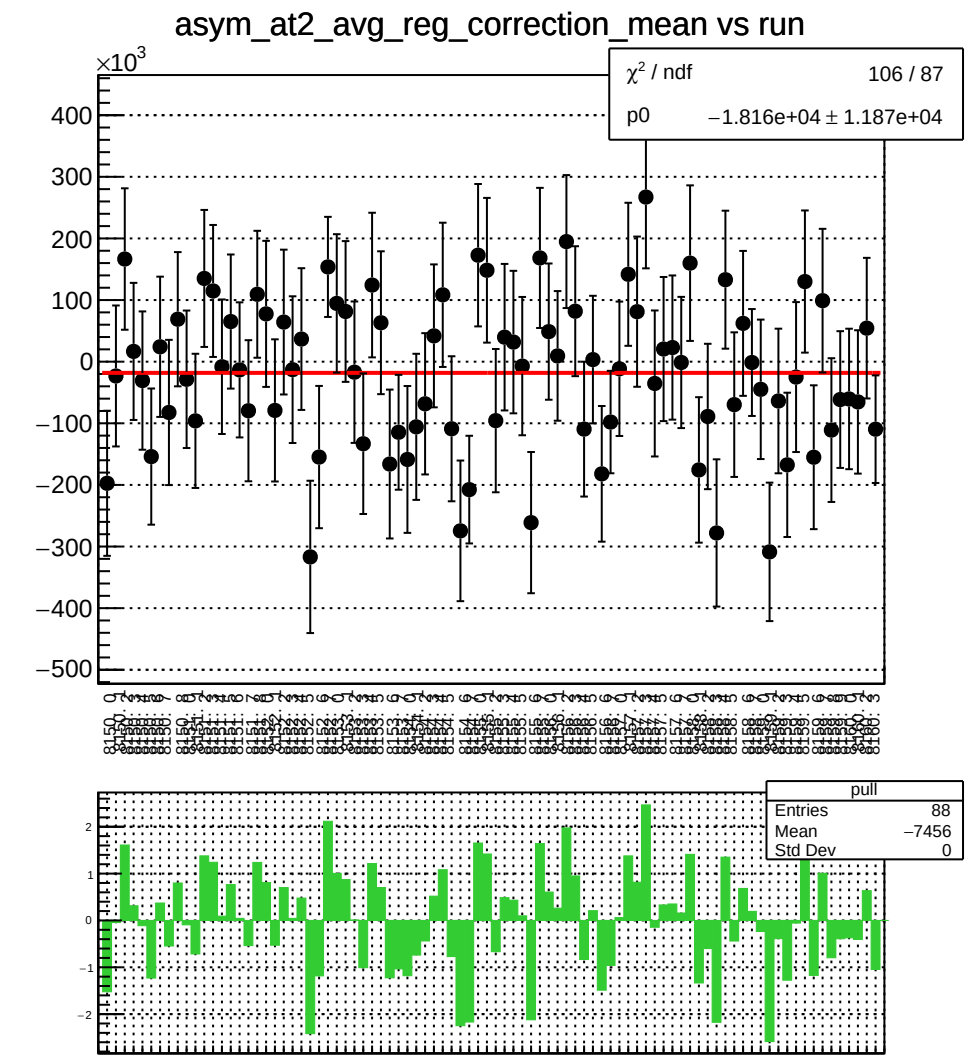

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.22 / 87
p0 −9.917e−15 ± 4.089e−14
pull
Entries 88
Mean 66.75
Std Dev 18.02
pull1D
Entries 88
Mean 0.1257
Std Dev 0.9702

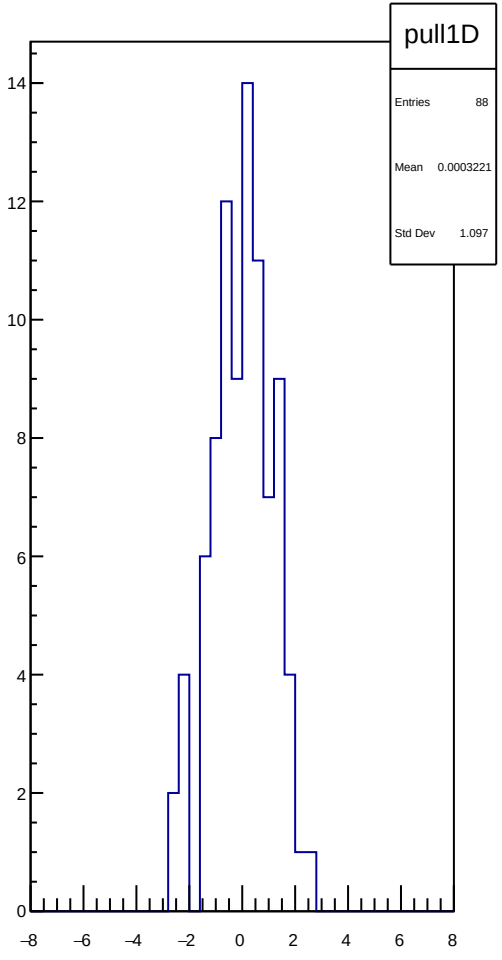

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.344e+05 / 87
p0 2.806e−11 ± 2.891e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

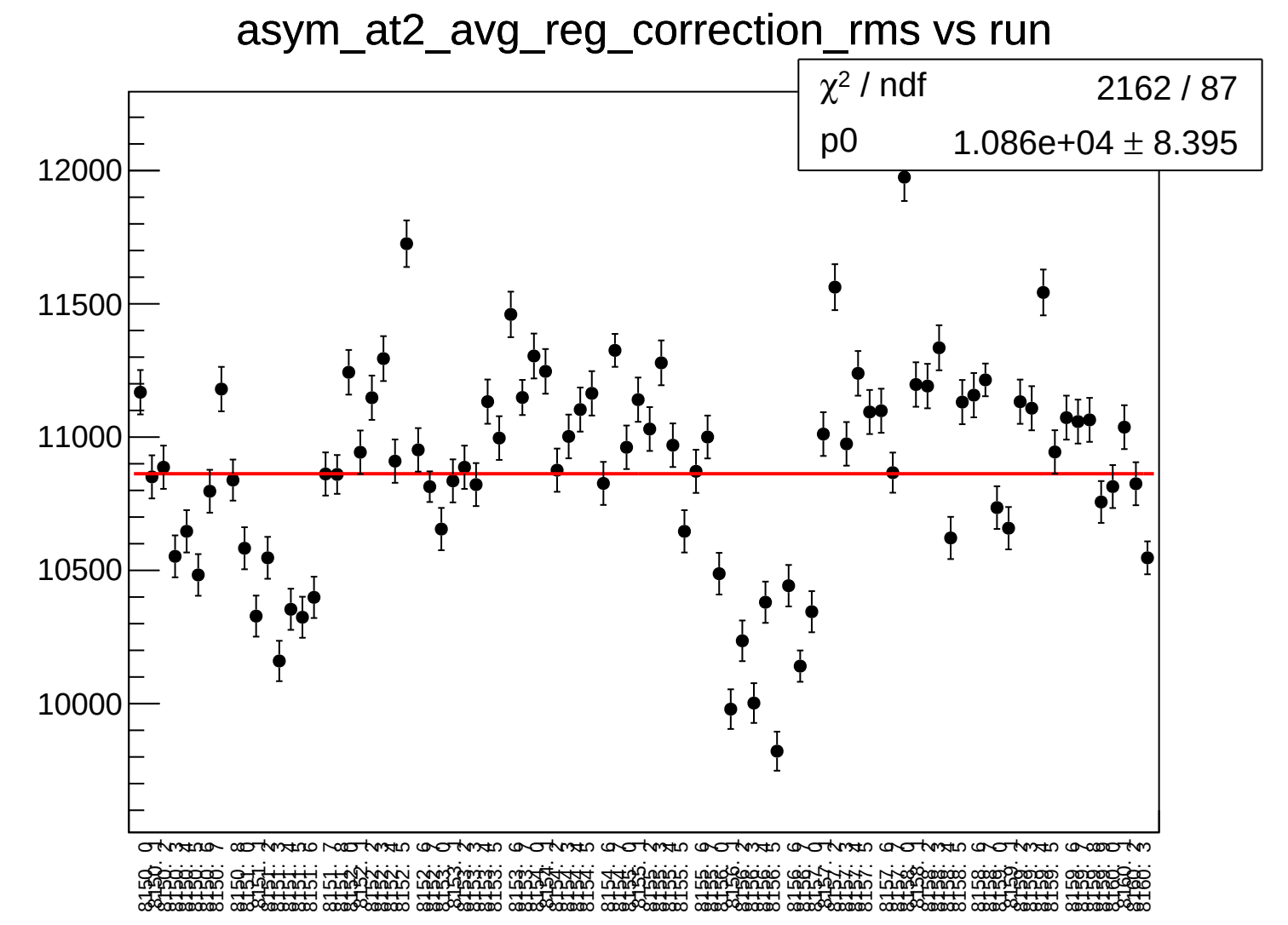

reg_asym_at2_avg_mean vs run
χ² / ndf 92.1 / 87
p0 177.1± 2097
pull
Entries 88
Mean 102.5
Std Dev 14.31

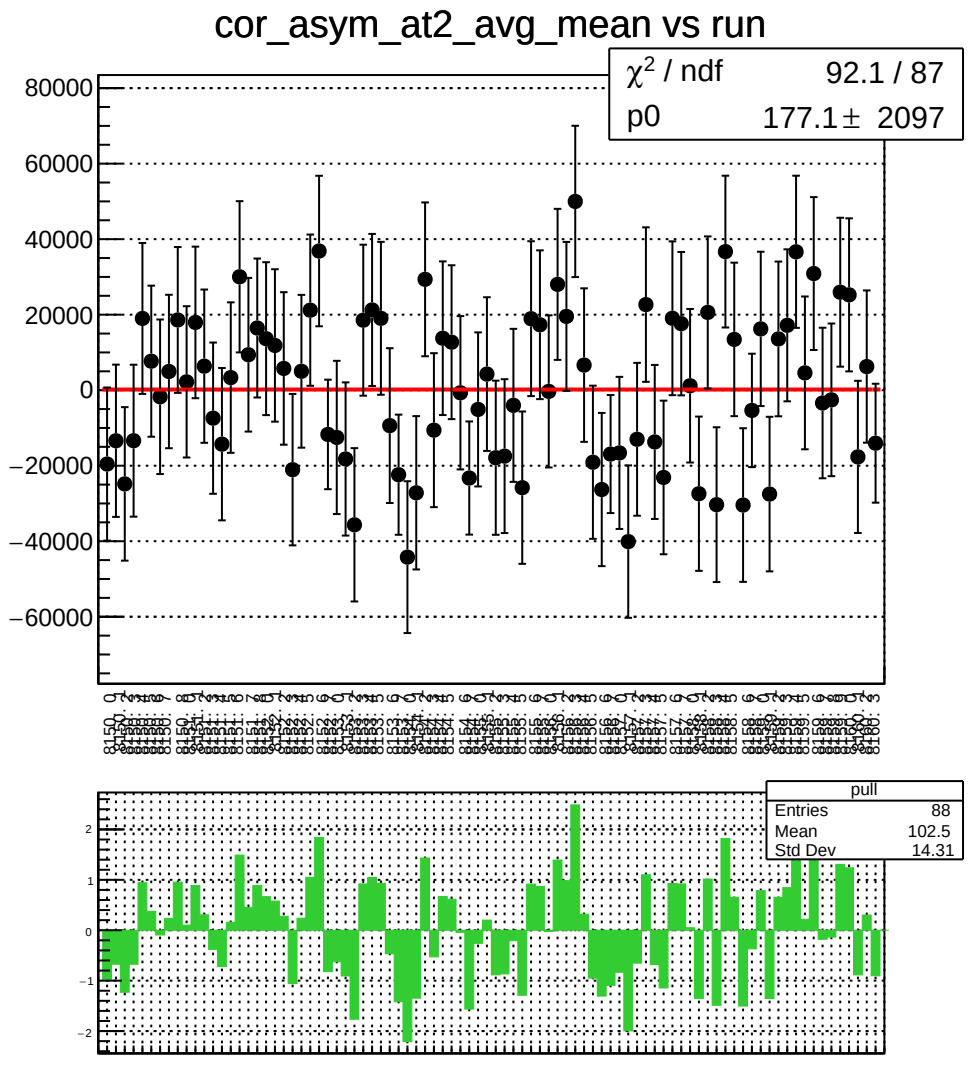

pull1D
Entries 88
Mean 0.01737
Std Dev 1.023

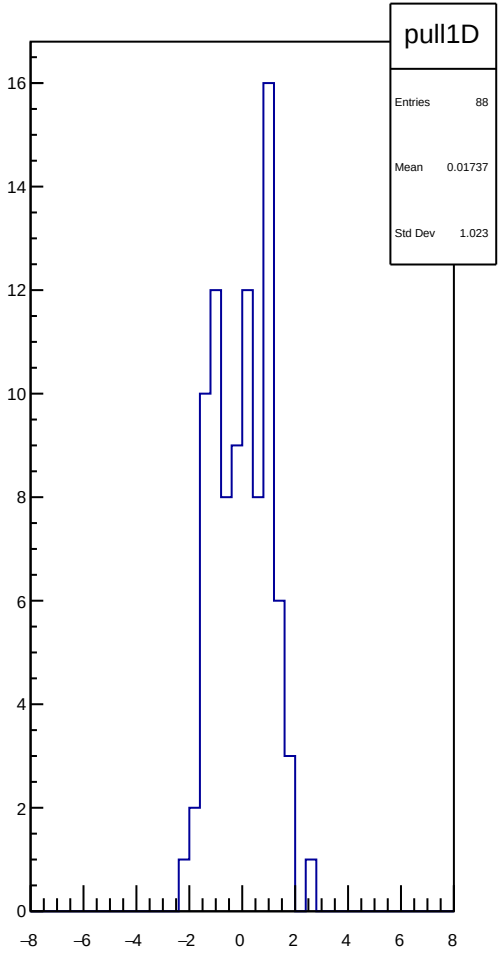

reg_asym_at2_avg_rms vs run
χ^2 / ndf 110.7 / 87
p0 1920 ± 1.483
1960
1940
1920
1900
1880
1860

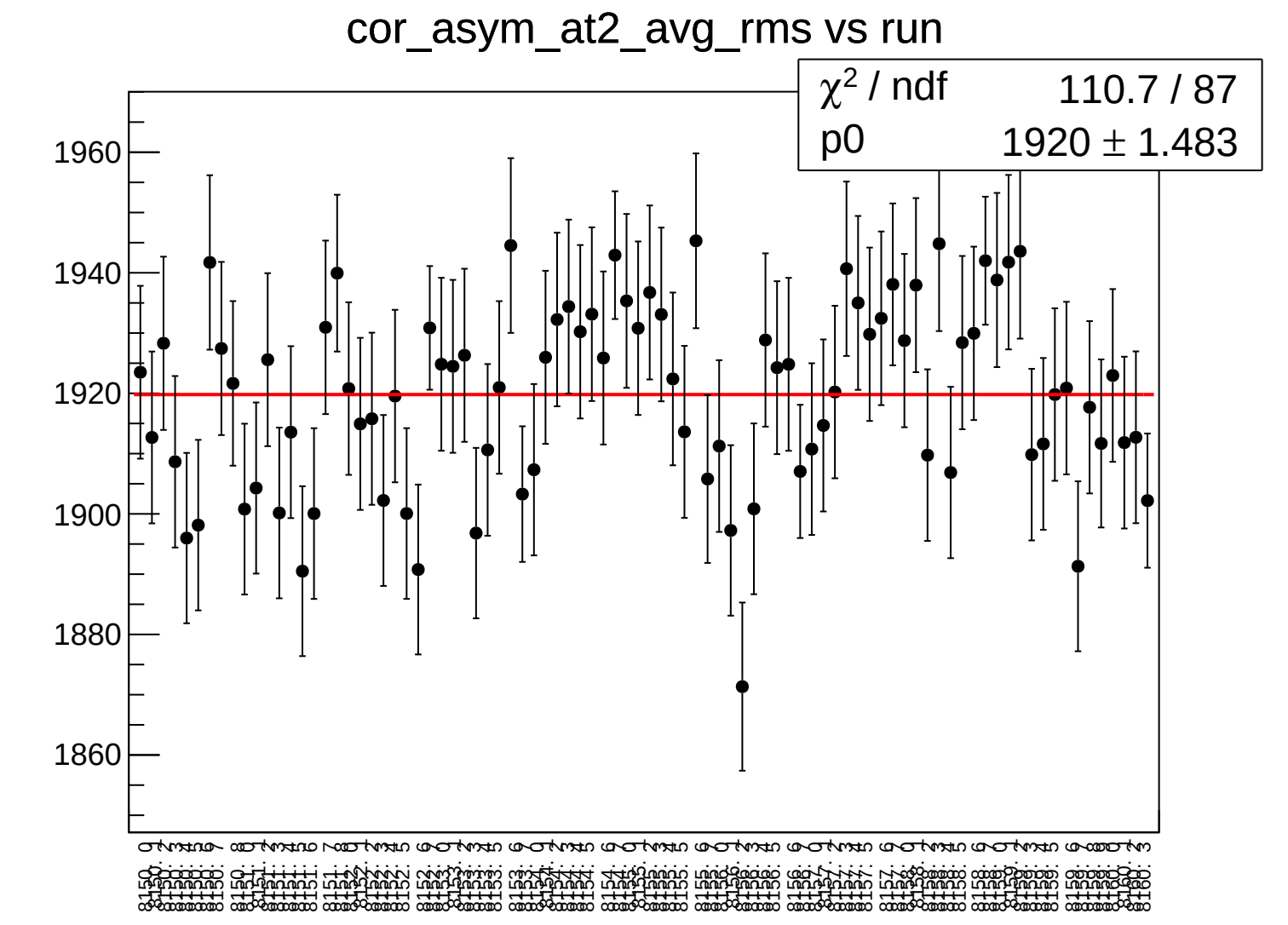

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 106 / 87
p0 −1.816e+04 ± 1.187e+04
pull
Entries 88
Mean −7456
Std Dev 0

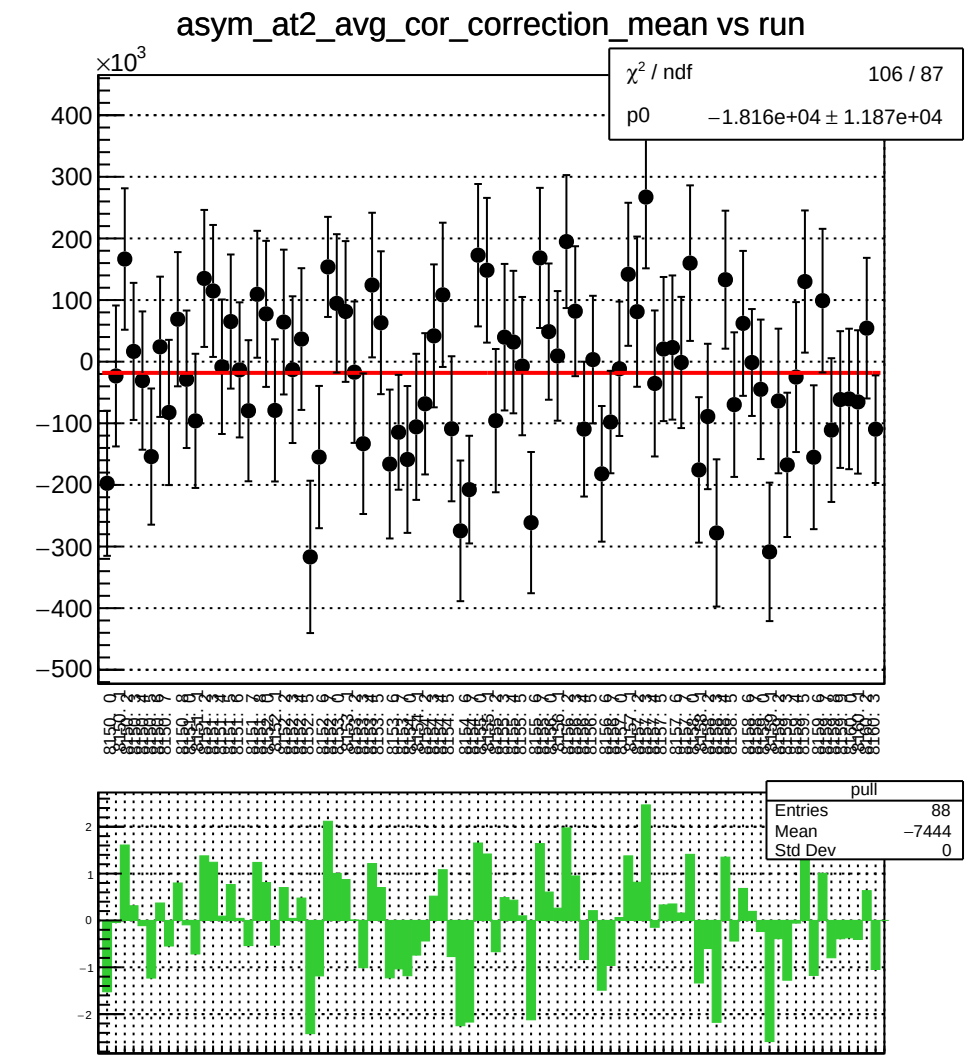

pull1D
Entries 88
Mean 0.0003221
Std Dev 1.097

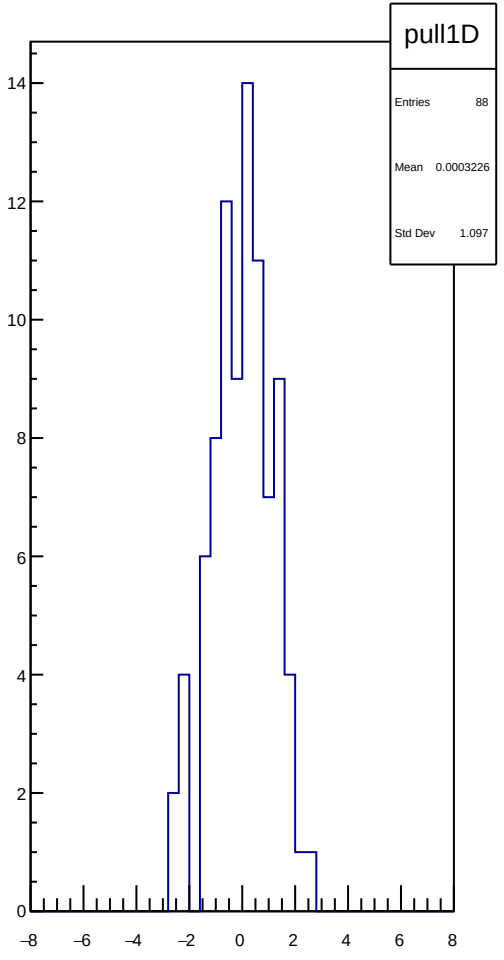

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 2162 / 87
p0 1.086e+04 ± 8.395
12000
11500
11000
10500
10000

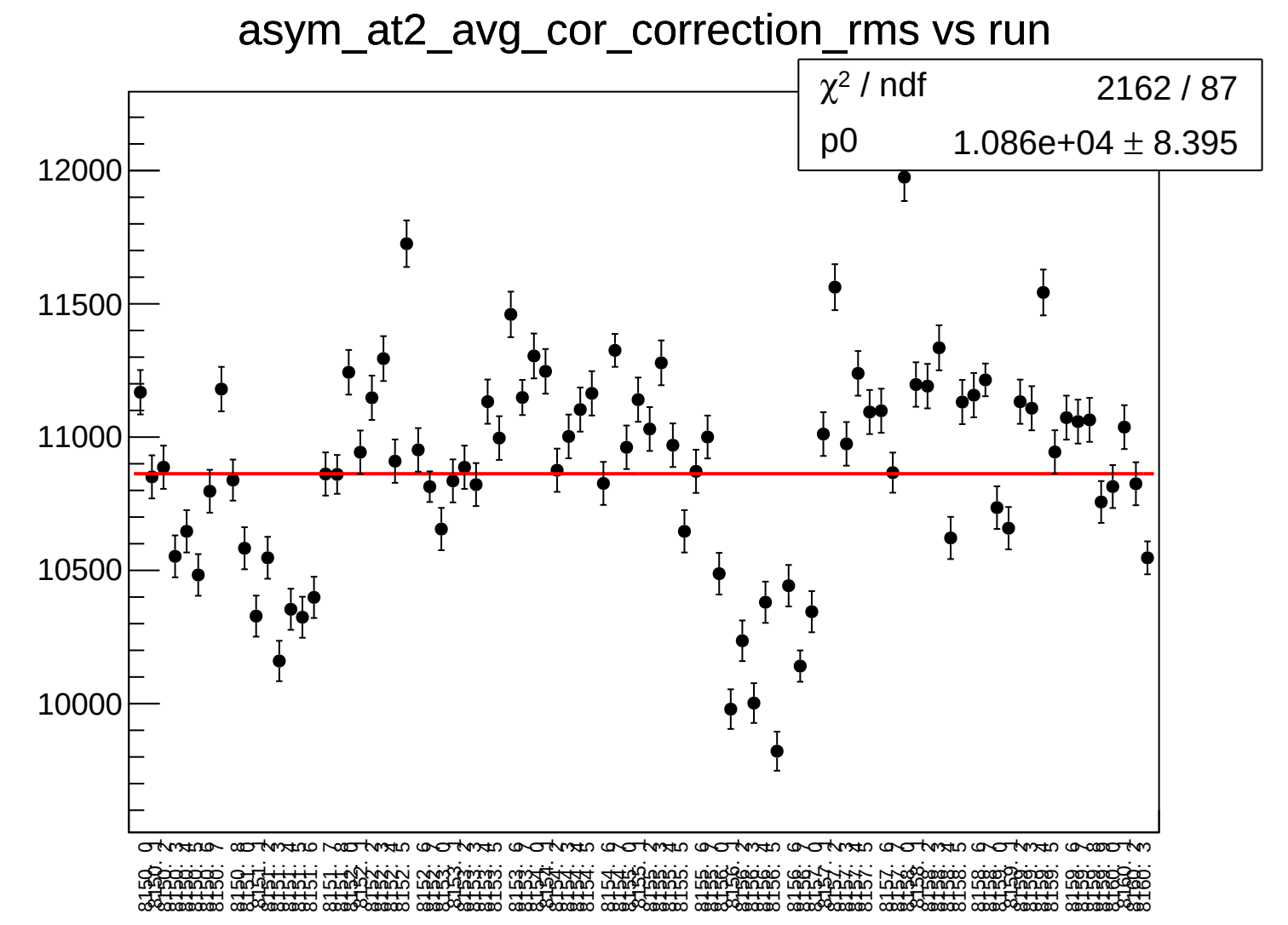

cor_asym_at2_avg_mean vs run
χ² / ndf 92.1 / 87
p0 177.1± 2097
pull
Entries 88
Mean 102.5
Std Dev 14.31

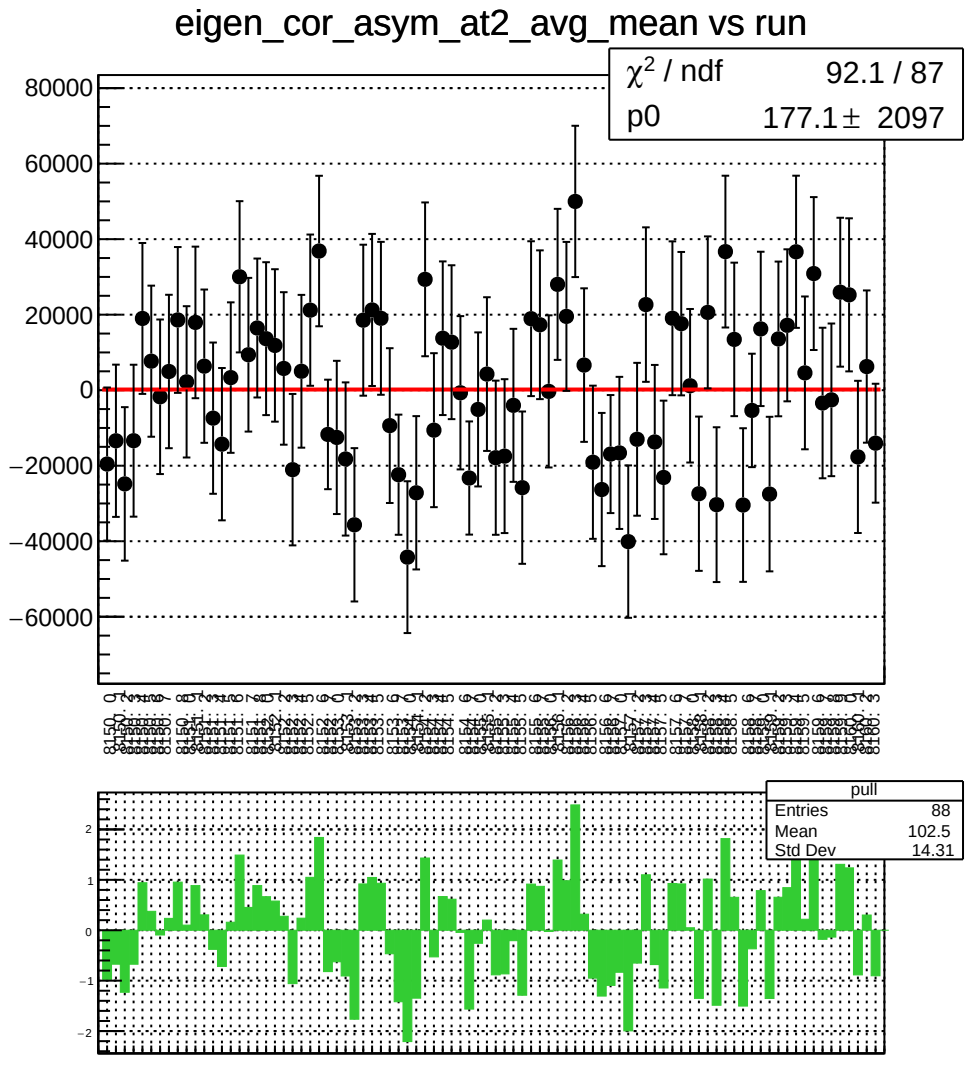

pull1D
Entries 88
Mean 0.01737
Std Dev 1.023

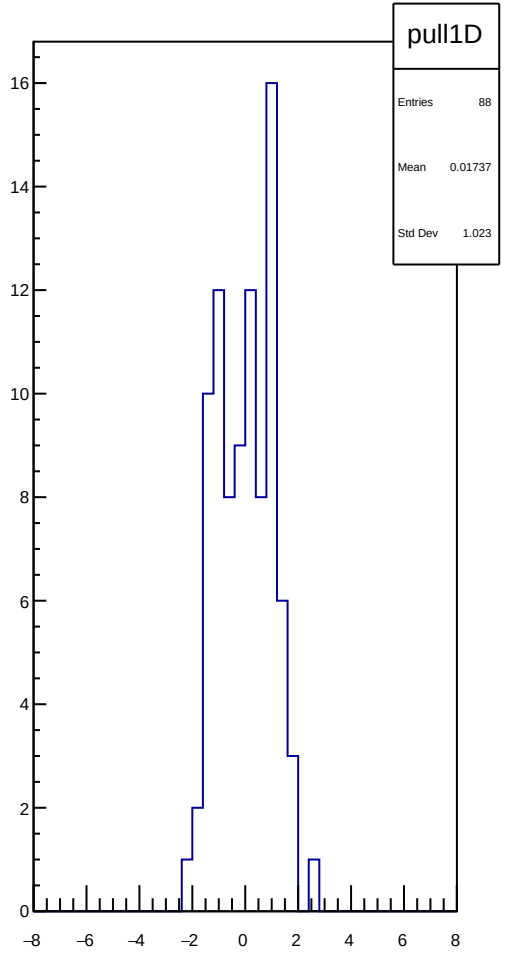

cor_asym_at2_avg_rms vs run
χ² / ndf 110.7 / 87
p0 1920 ± 1.483
1960
1940
1920
1900
1880
1860

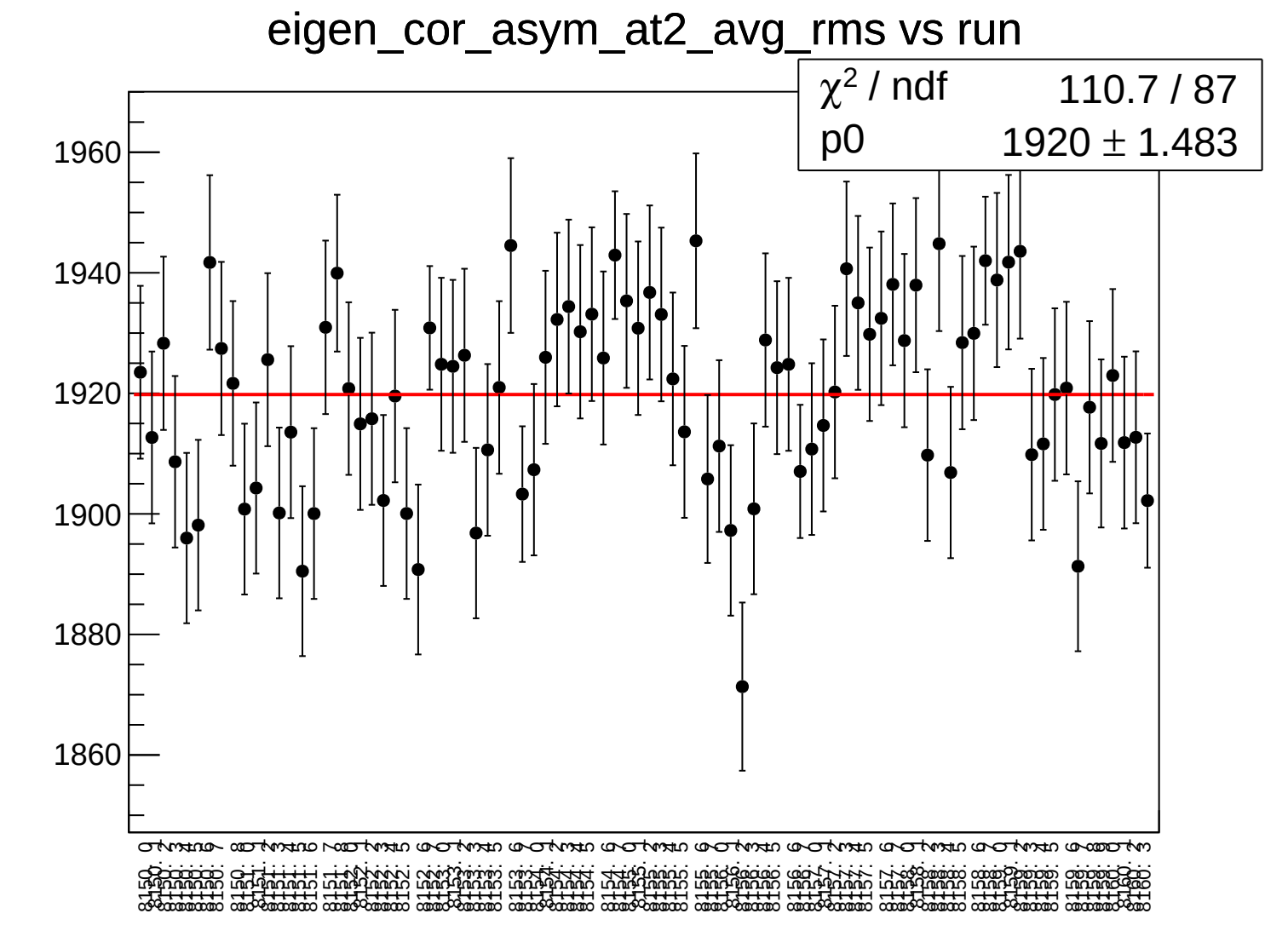

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 106 / 87
p0 −1.816e+04 ± 1.187e+04
pull
Entries 88
Mean −7444
Std Dev 0

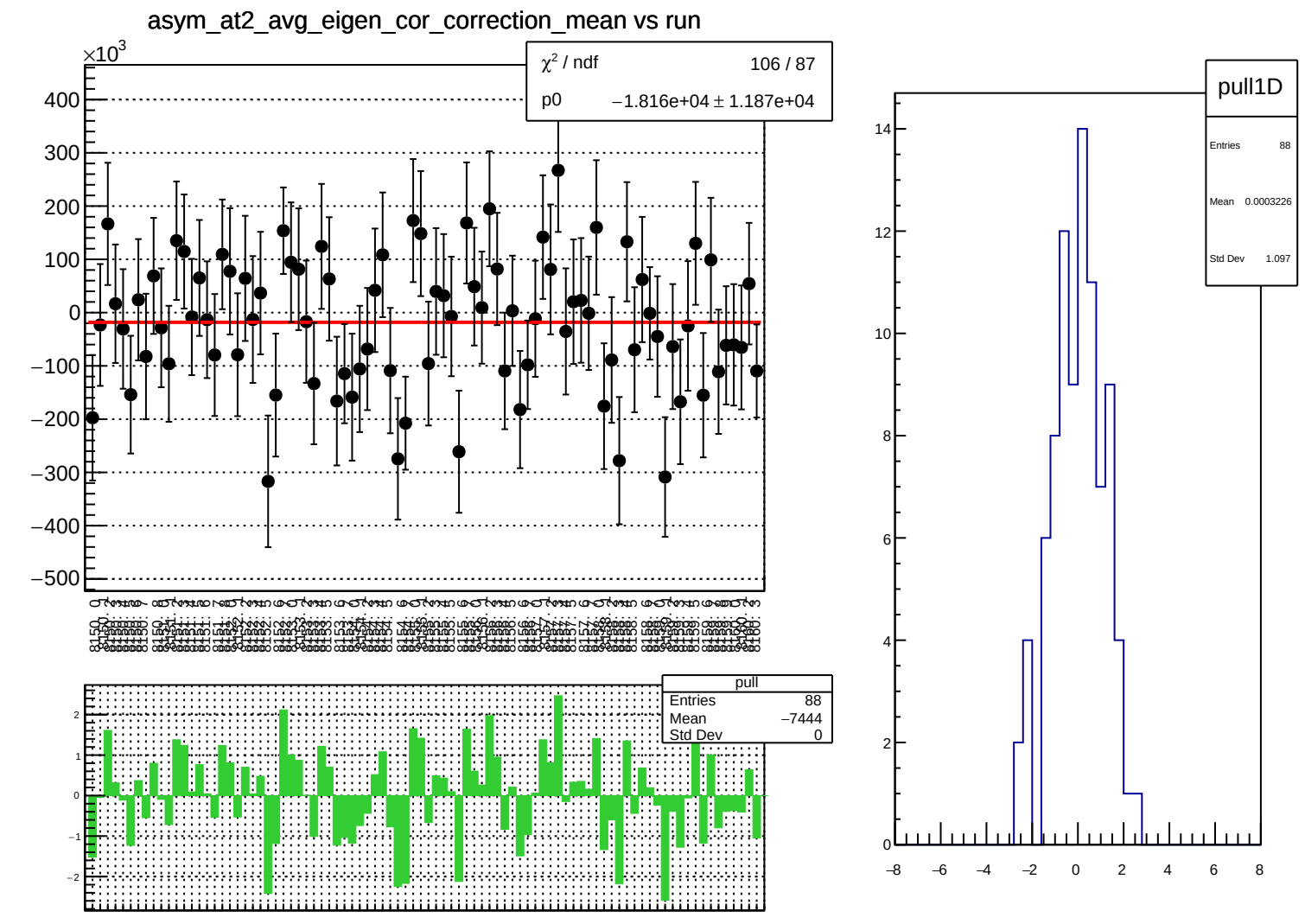

pull1D
Entries 88
Mean 0.0003226
Std Dev 1.097

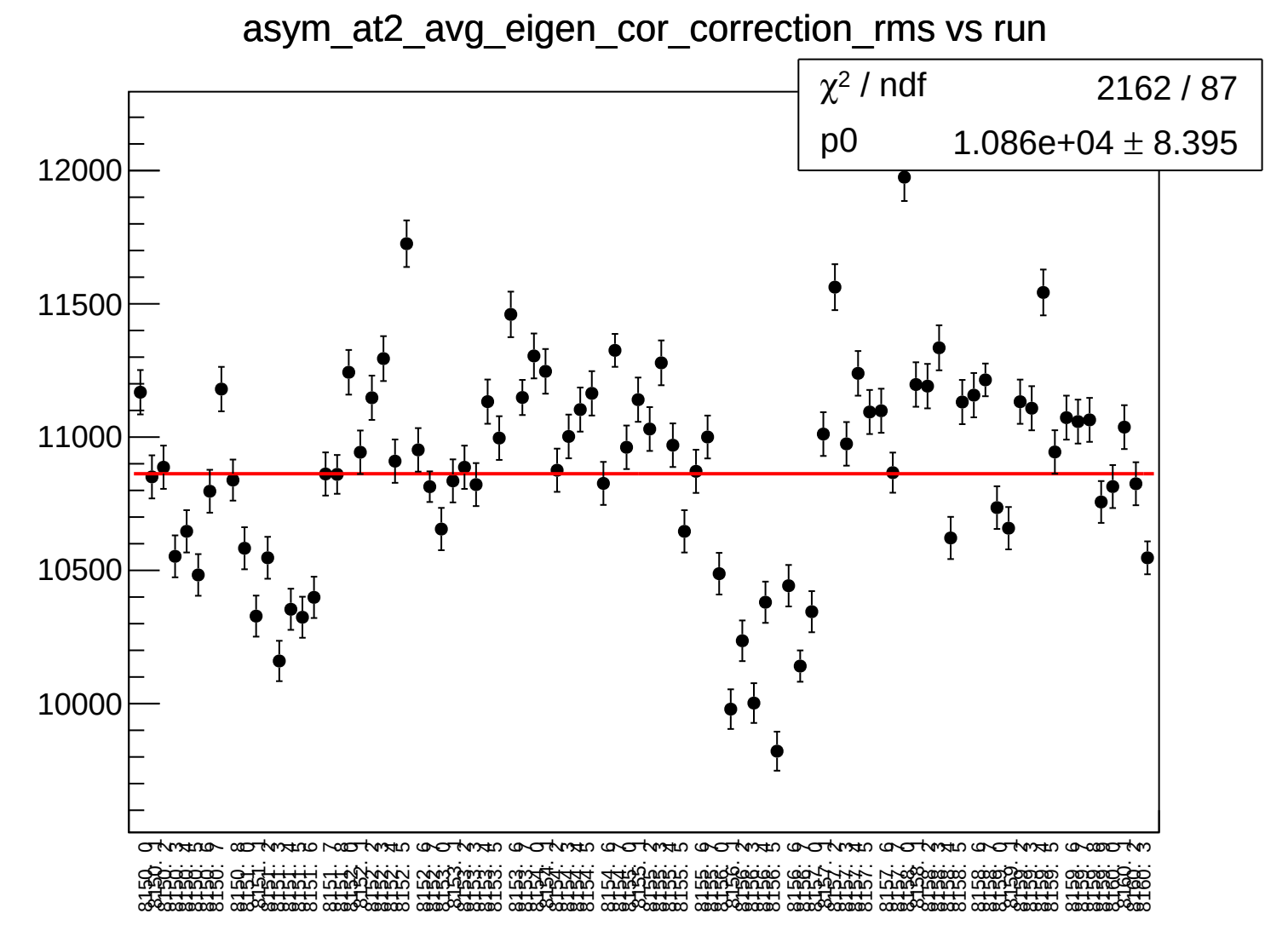

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 2162 / 87
p0 1.086e+04 ± 8.395
12000
11500
11000
10500
10000

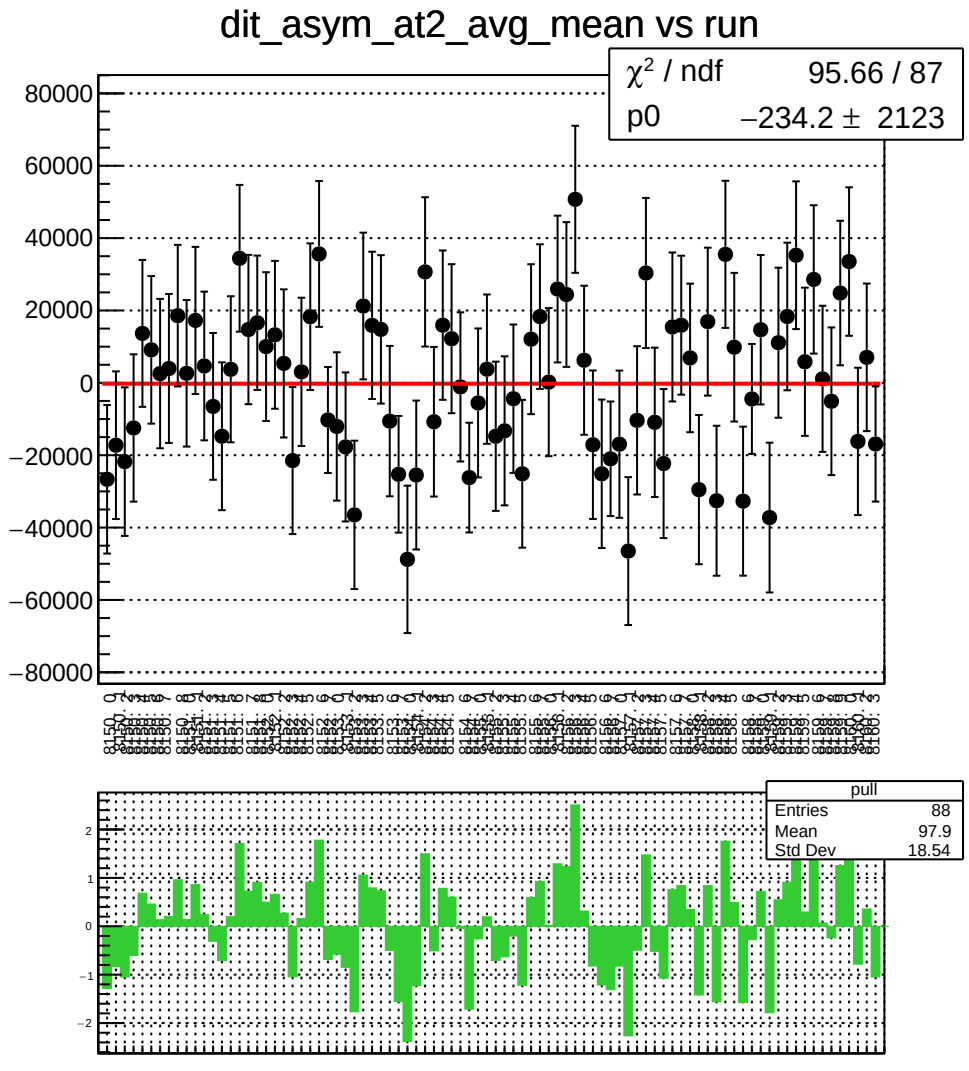

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 92.1 / 87
p0 177.1± 2097
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 102.5
Std Dev 14.31
2
1
0
−1
−2

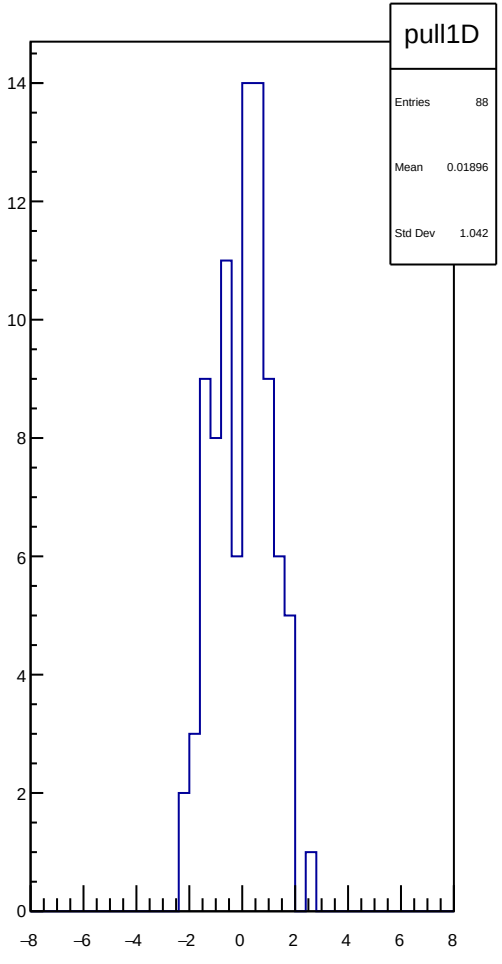

pull1D
Entries 88
Mean 0.01737
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

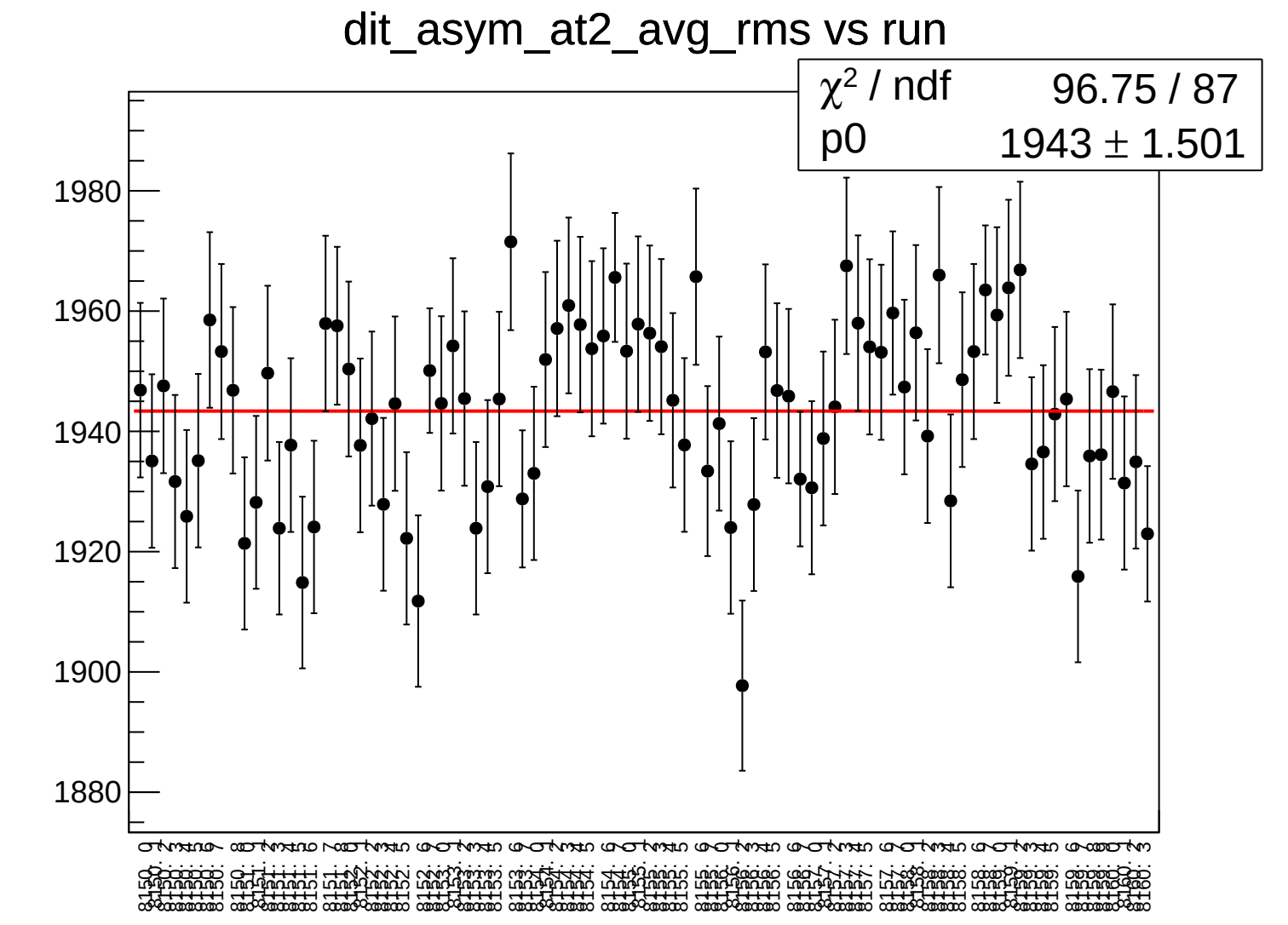

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 110.7 / 87
p0 1920 ± 1.483
1960
1940
1920
1900
1880
1860

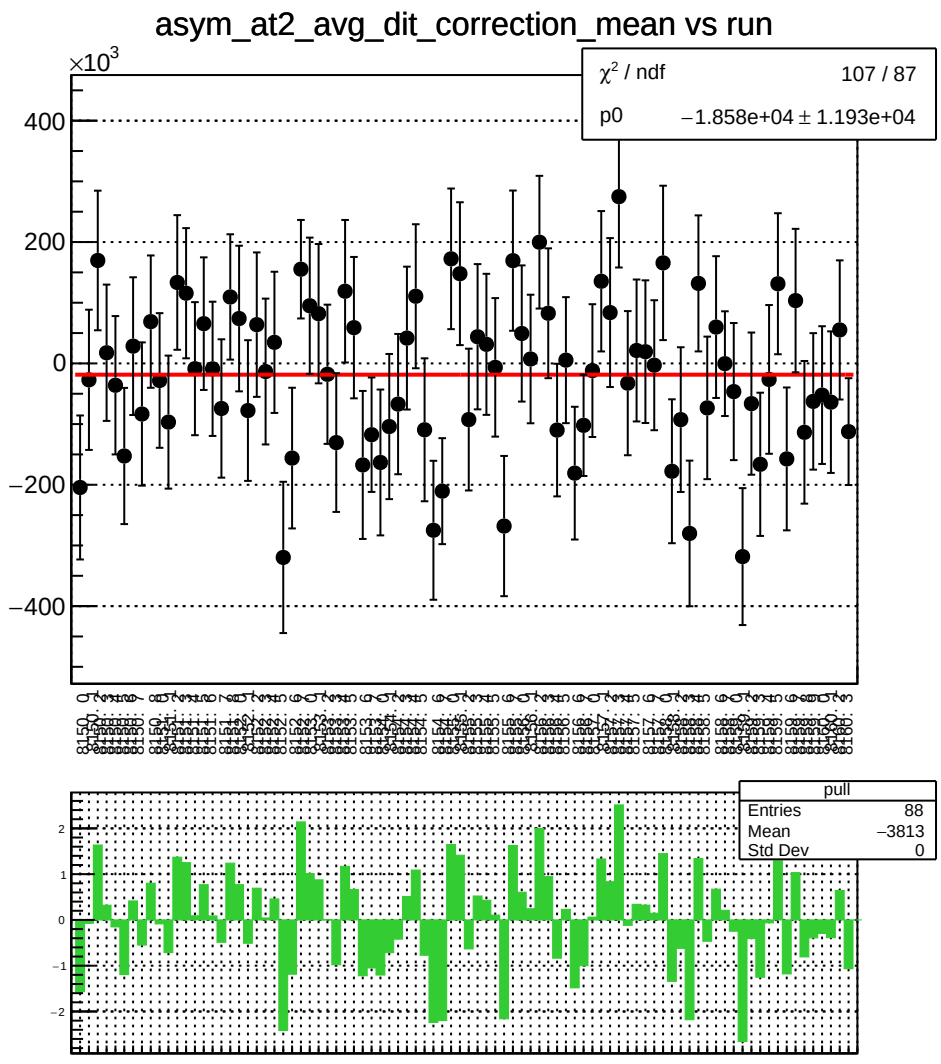

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106 / 87
p0 −1.816e+04 ± 1.187e+04
pull
Entries 88
Mean −7444
Std Dev 0
pull1D
Entries 88
Mean 0.0003226
Std Dev 1.097

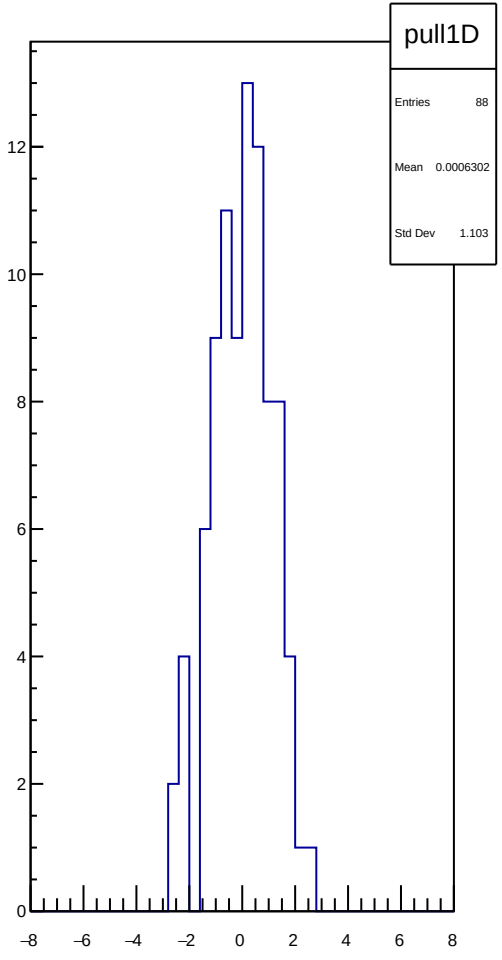

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2162 / 87
p0 1.086e+04 ± 8.395
12000
11500
11000
10500
10000

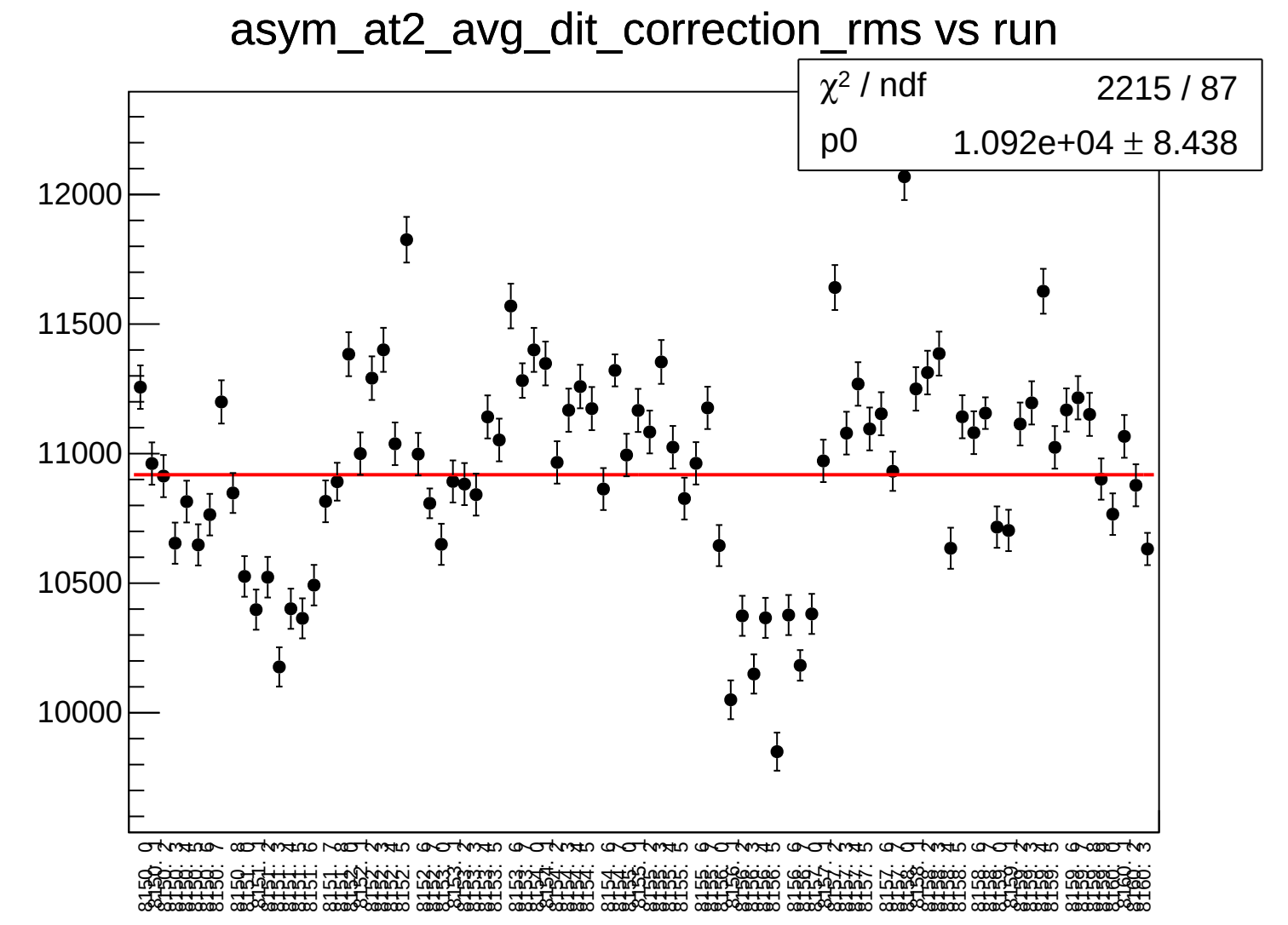

dit_asym_at2_avg_mean vs run
χ² / ndf 95.66 / 87
p0 −234.2 ± 2123
pull
Entries 88
Mean 97.9
Std Dev 18.54

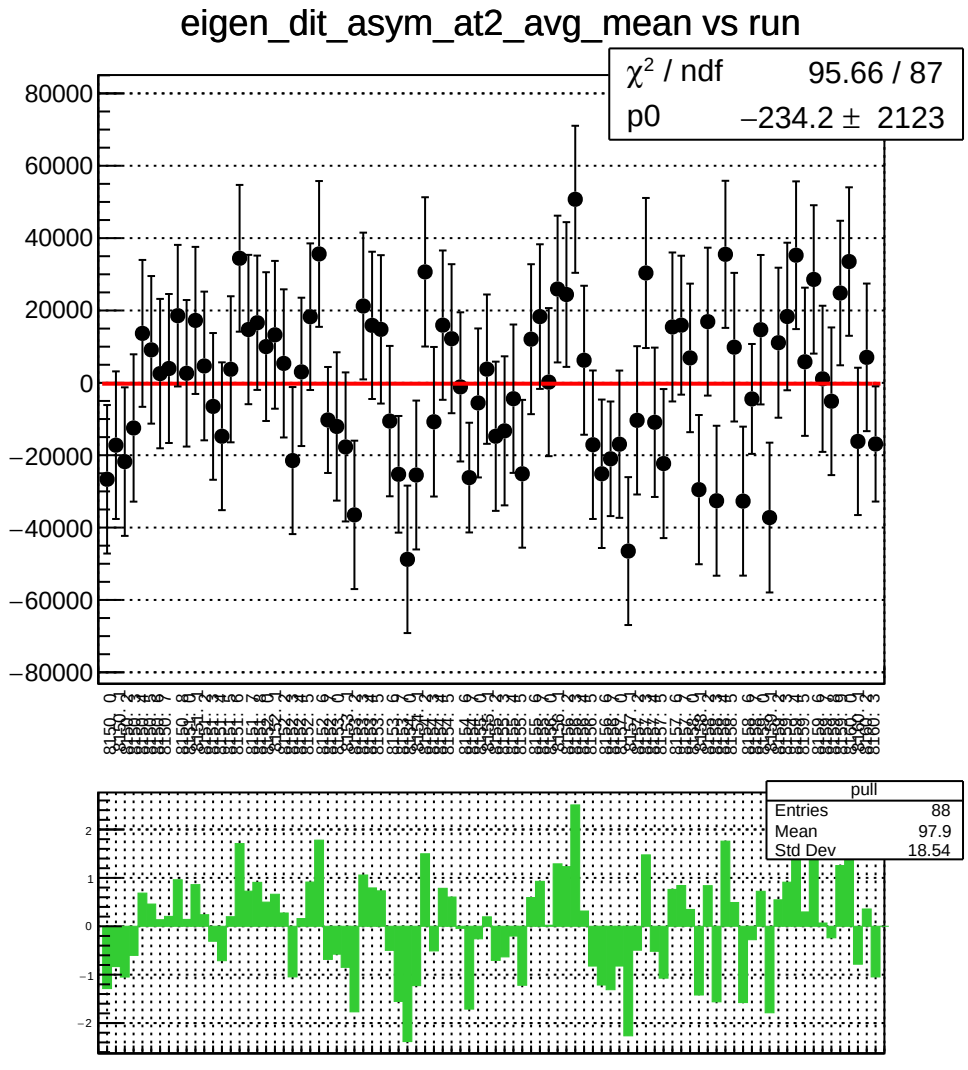

pull1D
Entries 88
Mean 0.01896
Std Dev 1.042

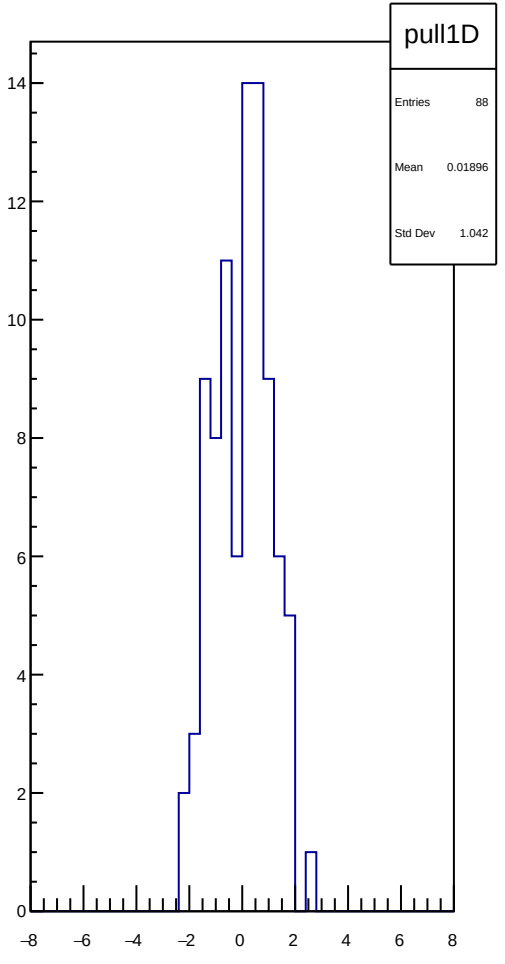

dit_asym_at2_avg_rms vs run
χ² / ndf 96.75 / 87
p0 1943 ± 1.501
1980
1960
1940
1920
1900
1880

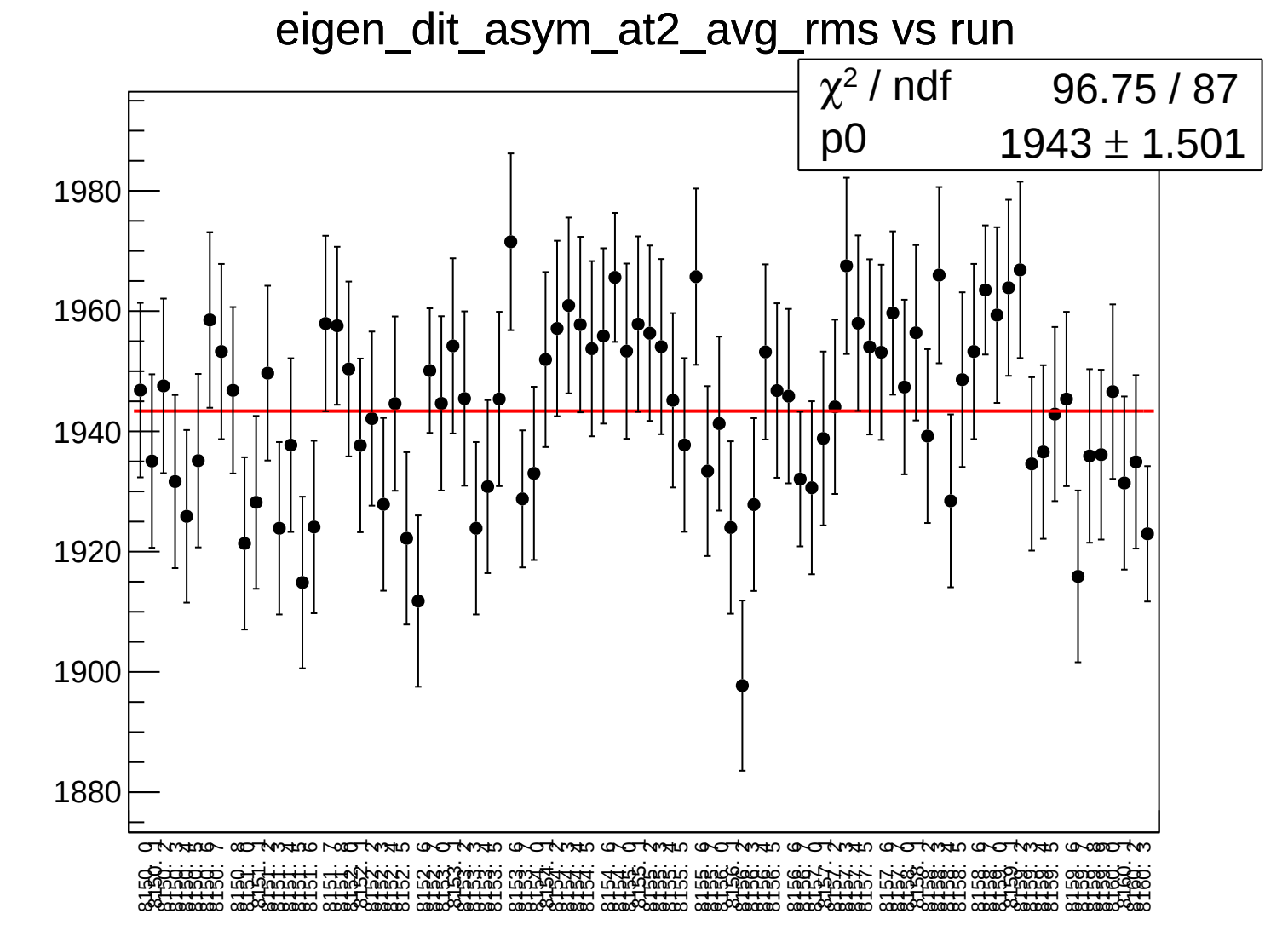

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 87
p0 −1.858e+04 ± 1.193e+04
400
200
0
−200
−400
pull
Entries 88
Mean −3813
Std Dev 0
2
1
0
−1
−2

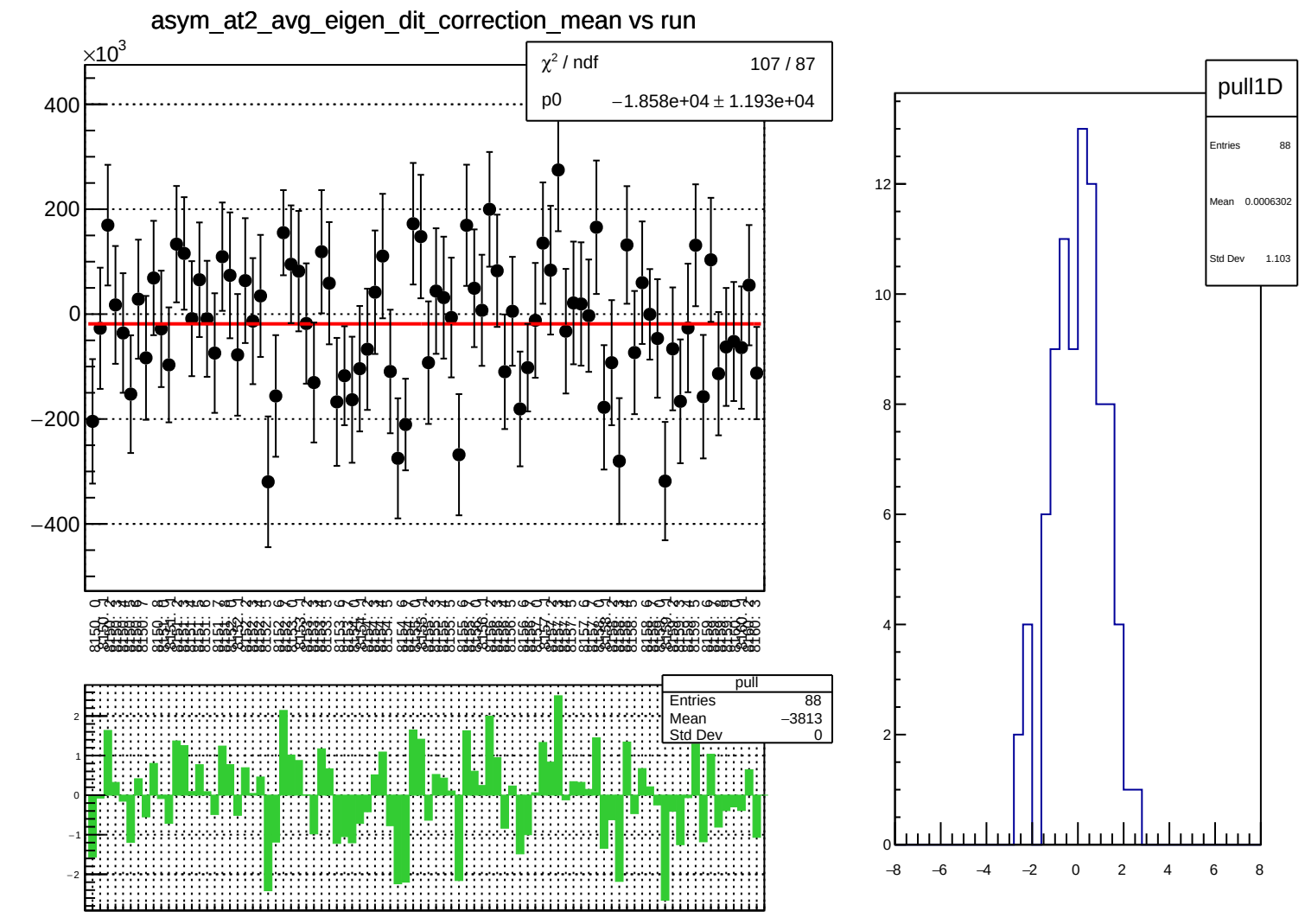

pull1D
Entries 88
Mean 0.0006302
Std Dev 1.103
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

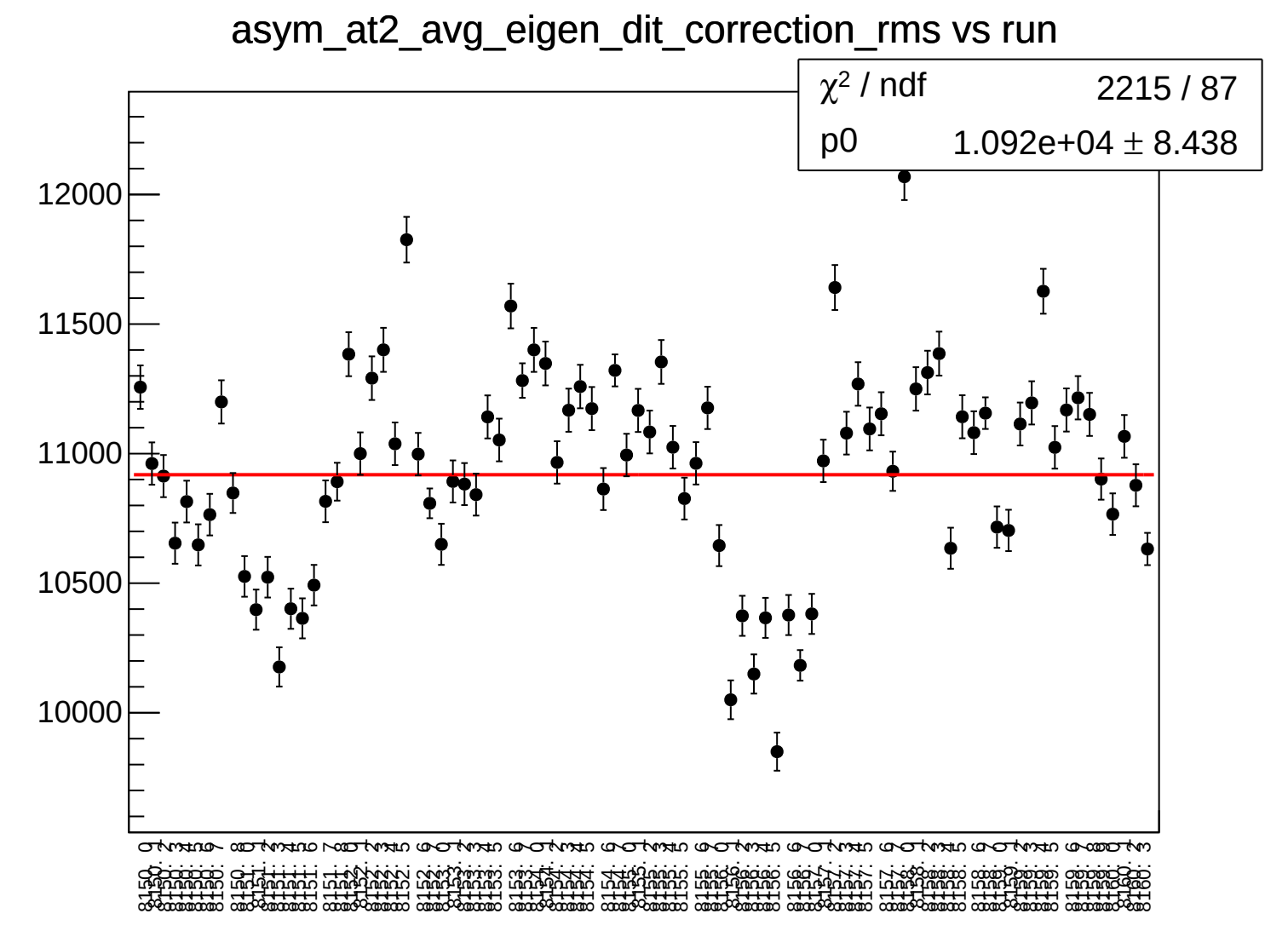

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 2215 / 87
p0 1.092e+04 ± 8.438
12000
11500
11000
10500
10000

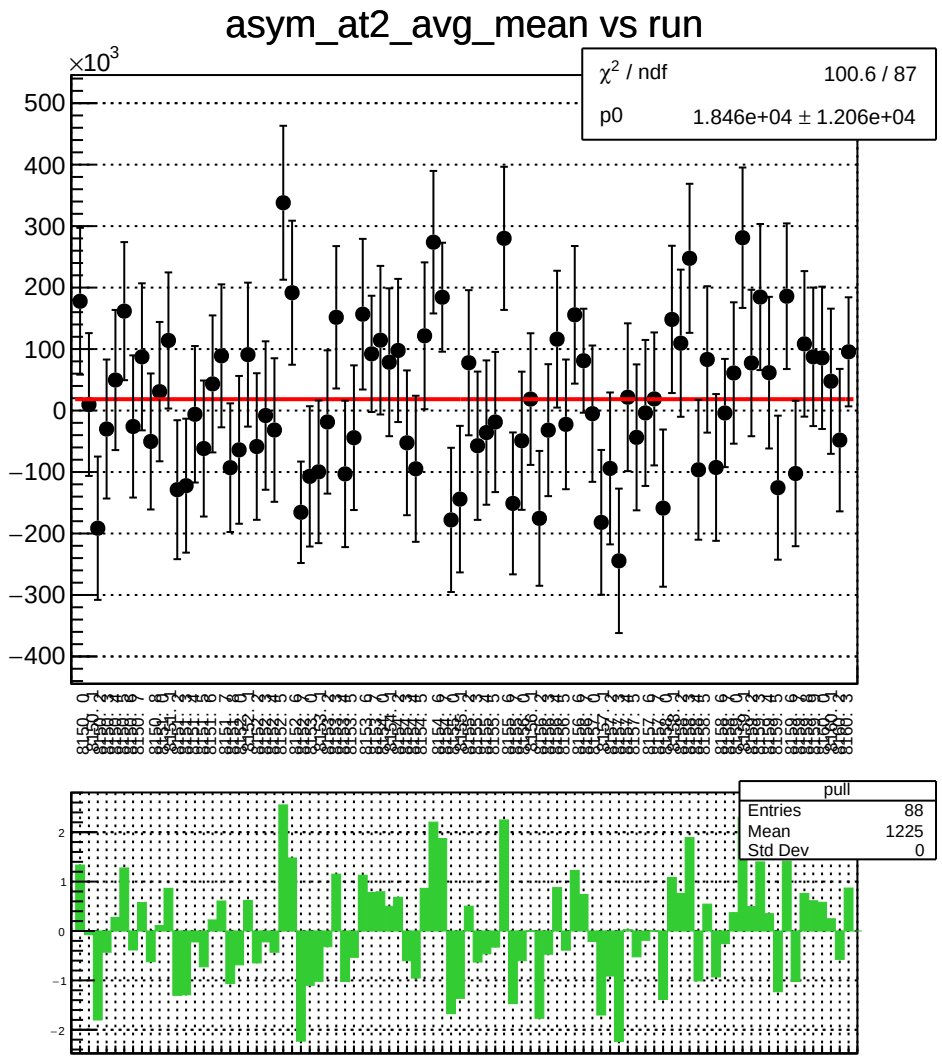

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 95.66 / 87
p0 −234.2 ± 2123
pull
Entries 88
Mean 97.9
Std Dev 18.54

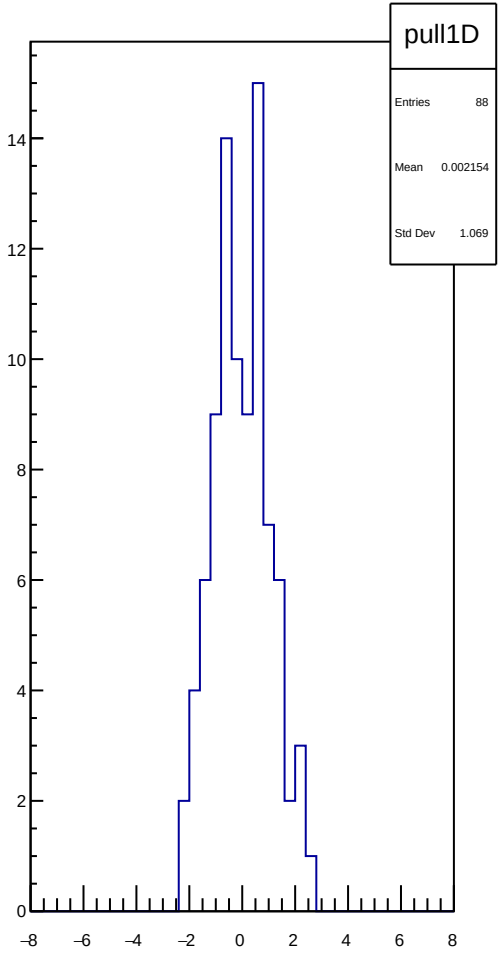

pull1D
Entries 88
Mean 0.01896
Std Dev 1.042

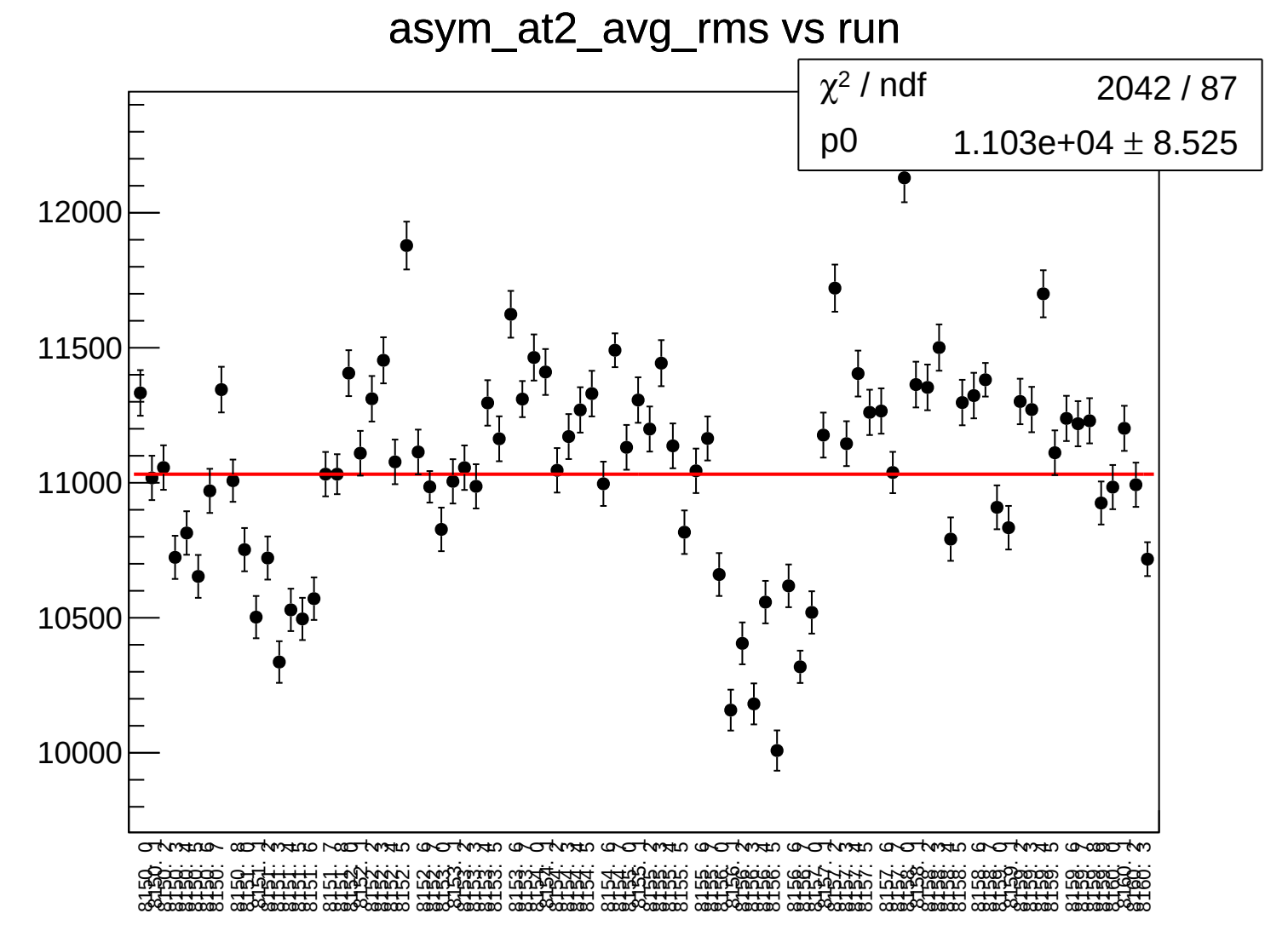

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 96.75 / 87
p0 1943 ± 1.501
1980
1960
1940
1920
1900
1880

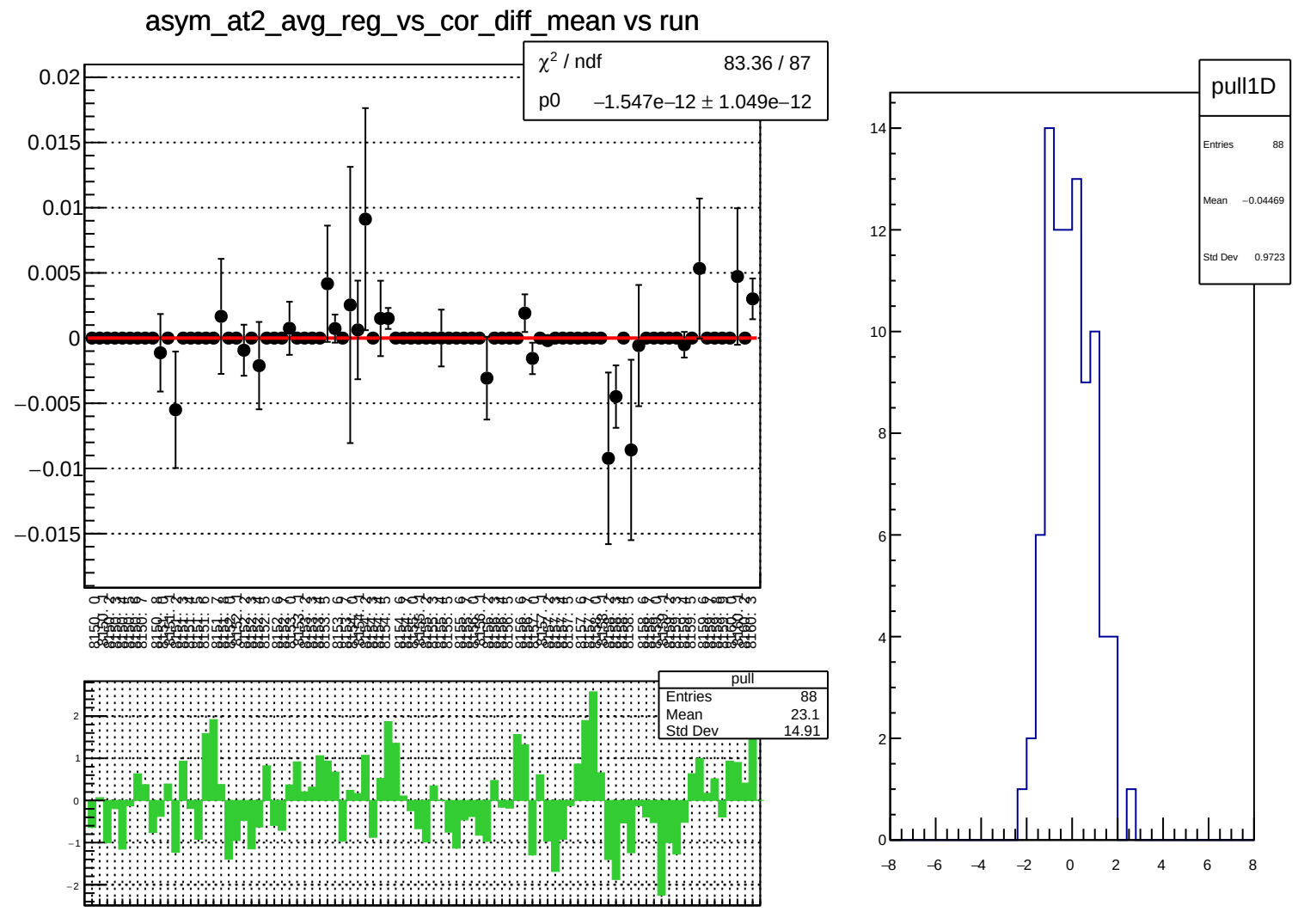

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 87
p0 −1.858e+04 ± 1.193e+04
400
200
0
−200
−400
pull
Entries 88
Mean −3813
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0006302
Std Dev 1.103
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

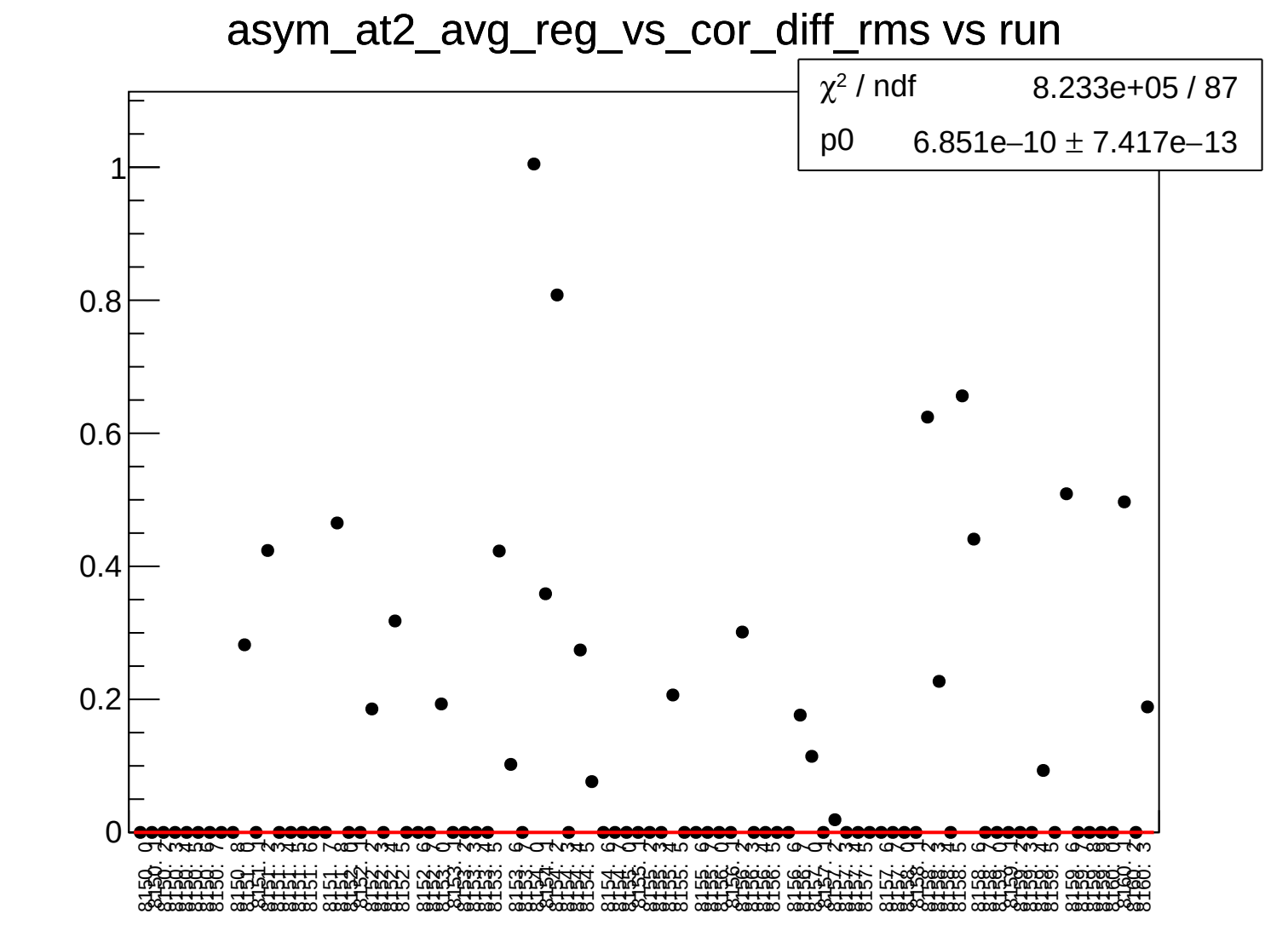

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2215 / 87
p0 1.092e+04 ± 8.438
12000
11500
11000
10500
10000

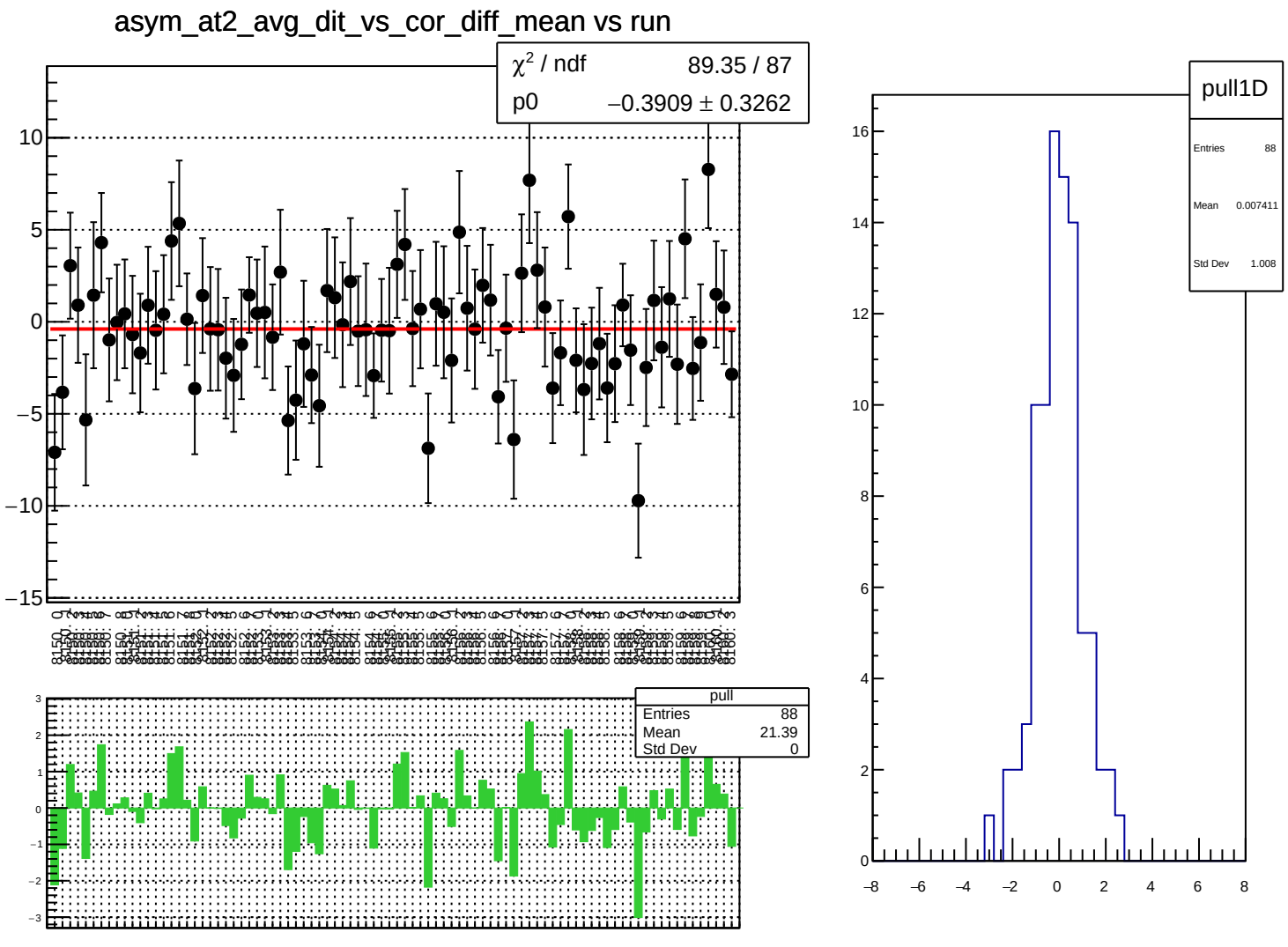

asym_at2_avg_mean vs run
×10^3
χ² / ndf 100.6 / 87
p0 1.846e+04 ± 1.206e+04
pull
Entries 88
Mean 1225
Std Dev 0

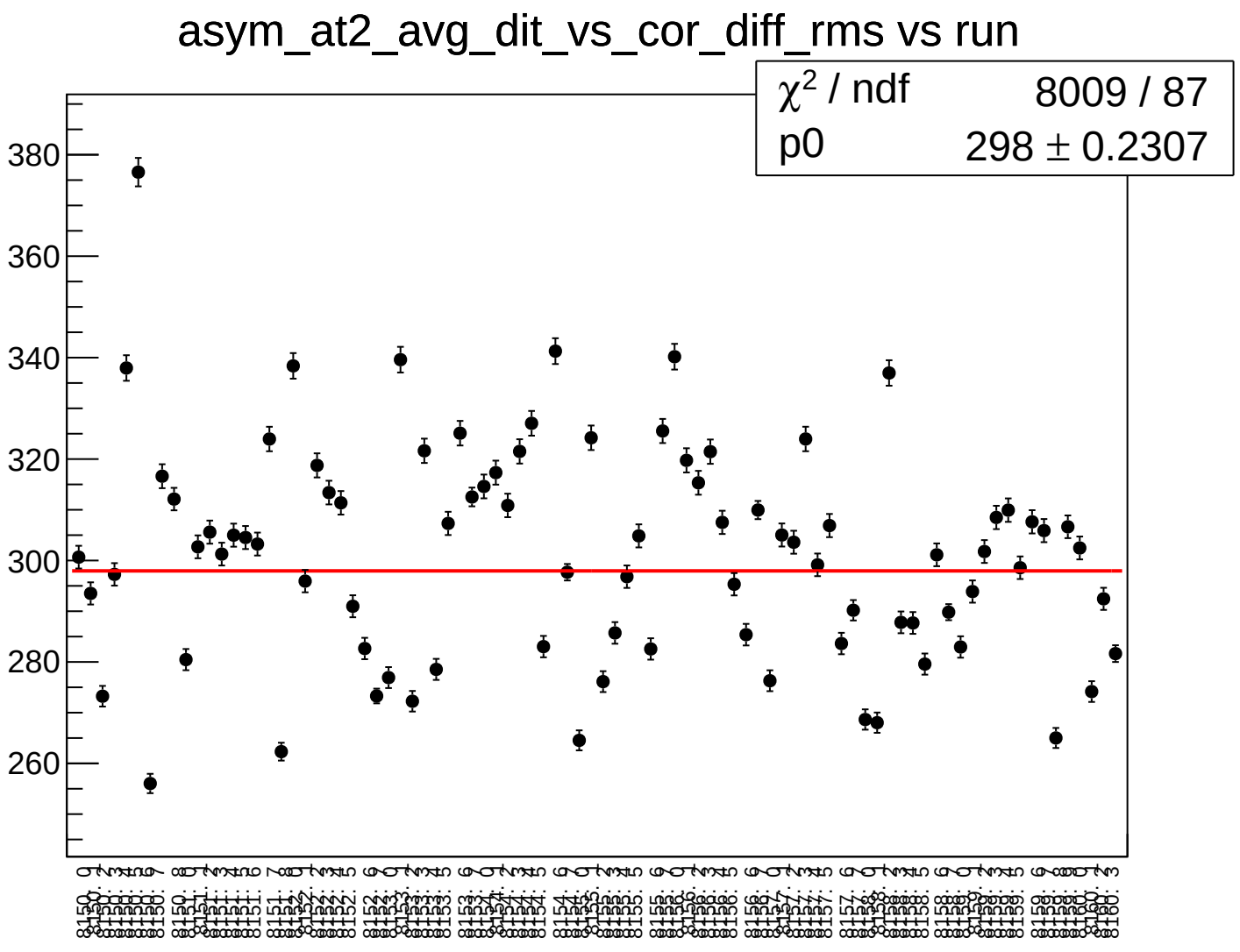

pull1D
Entries 88
Mean 0.002154
Std Dev 1.069

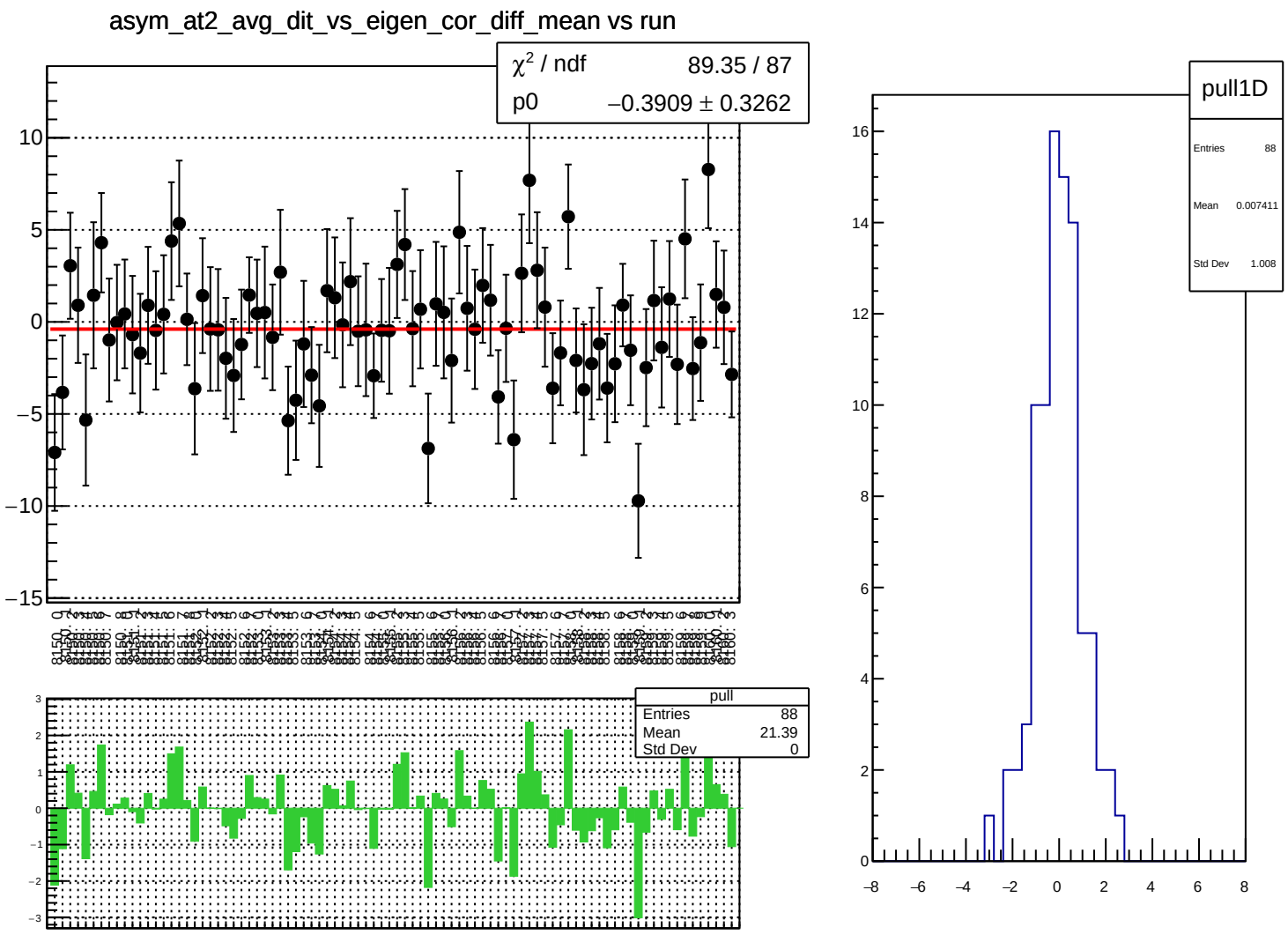

asym_at2_avg_rms vs run
χ² / ndf 2042 / 87
p0 1.103e+04 ± 8.525
12000
11500
11000
10500
10000

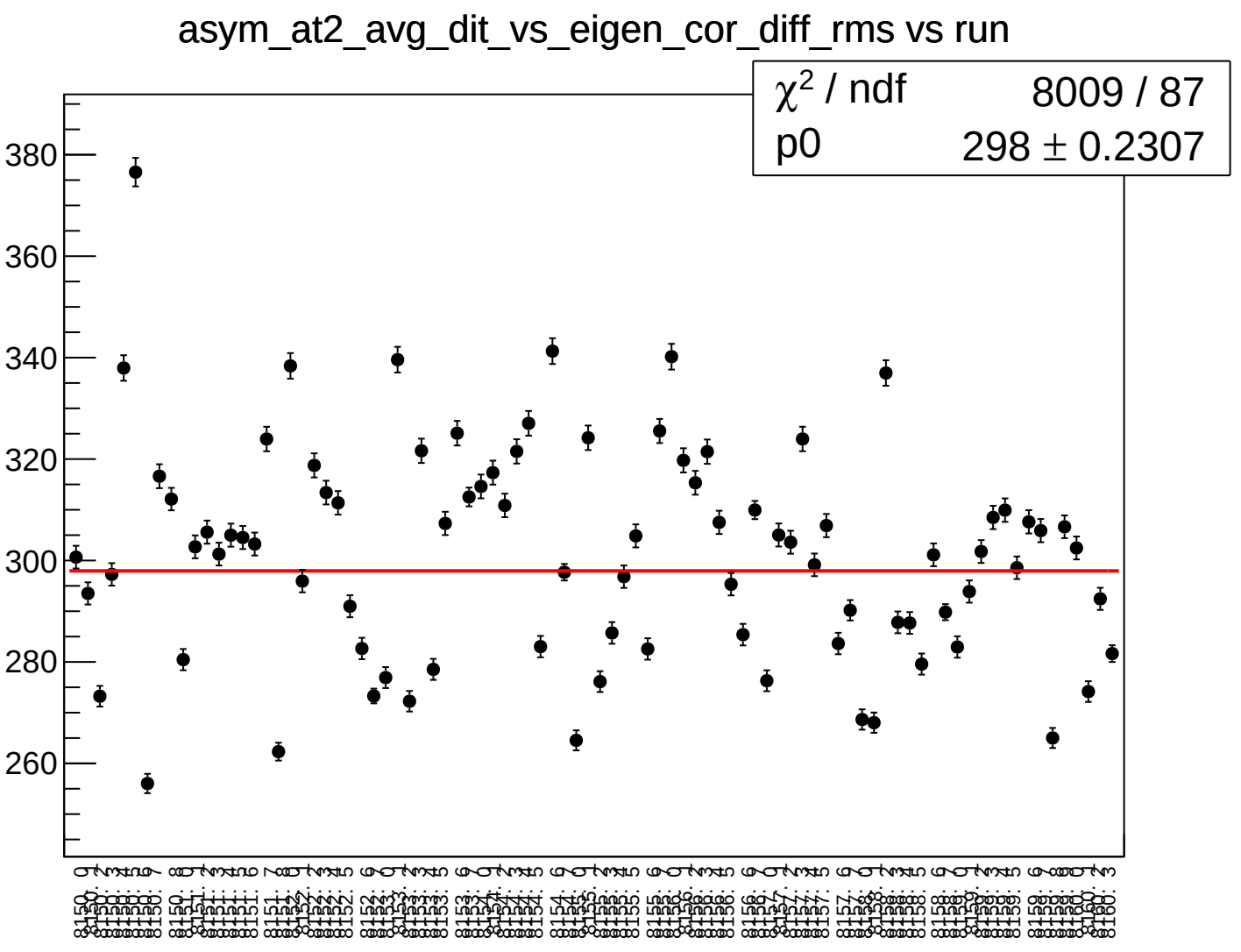

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.36 / 87
p0 −1.547e−12 ± 1.049e−12
pull
Entries 88
Mean 23.1
Std Dev 14.91
pull1D
Entries 88
Mean −0.04469
Std Dev 0.9723

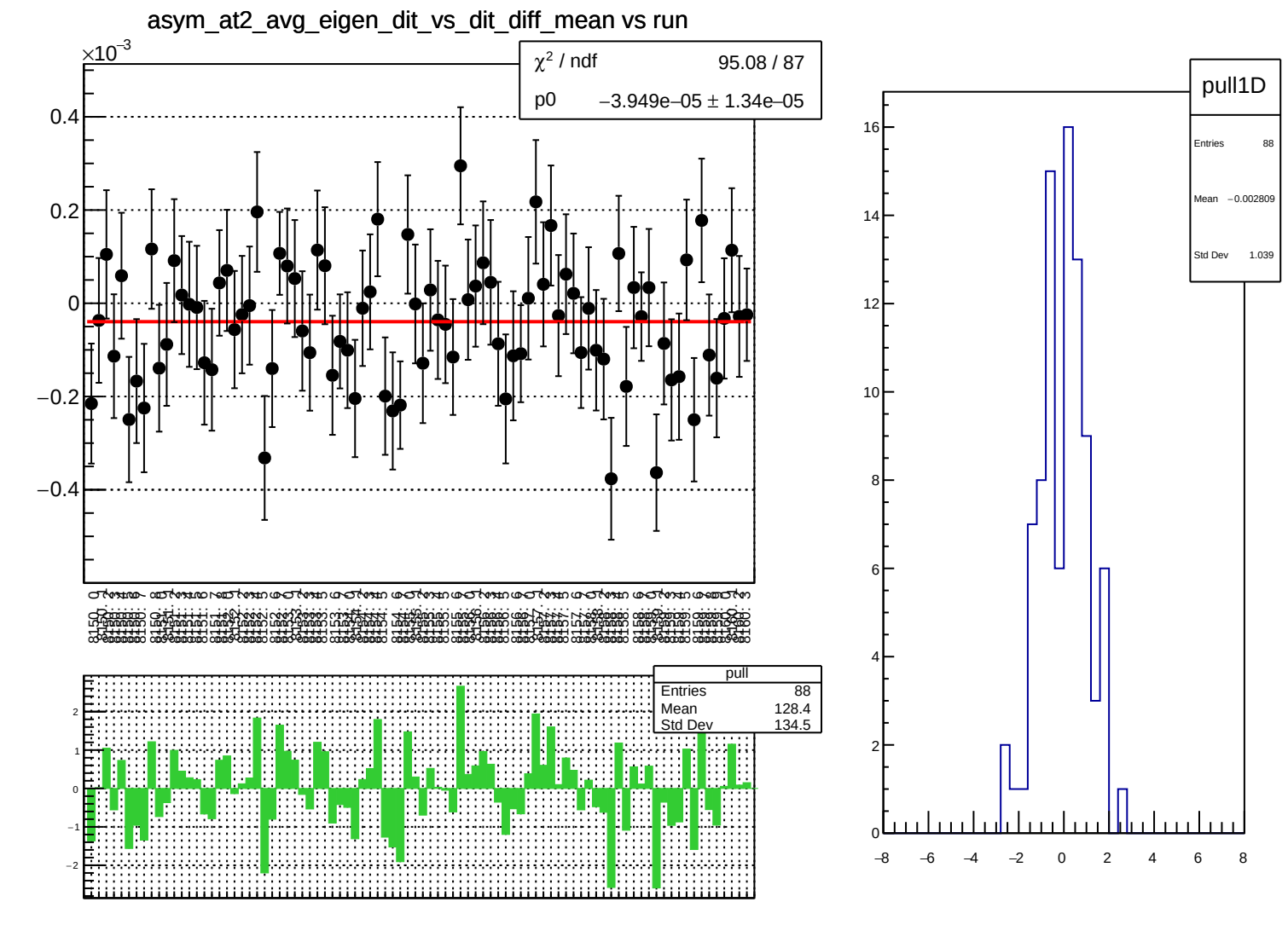

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.233e+05 / 87
p0 6.851e−10 ± 7.417e−13
1
0.8
0.6
0.4
0.2
0

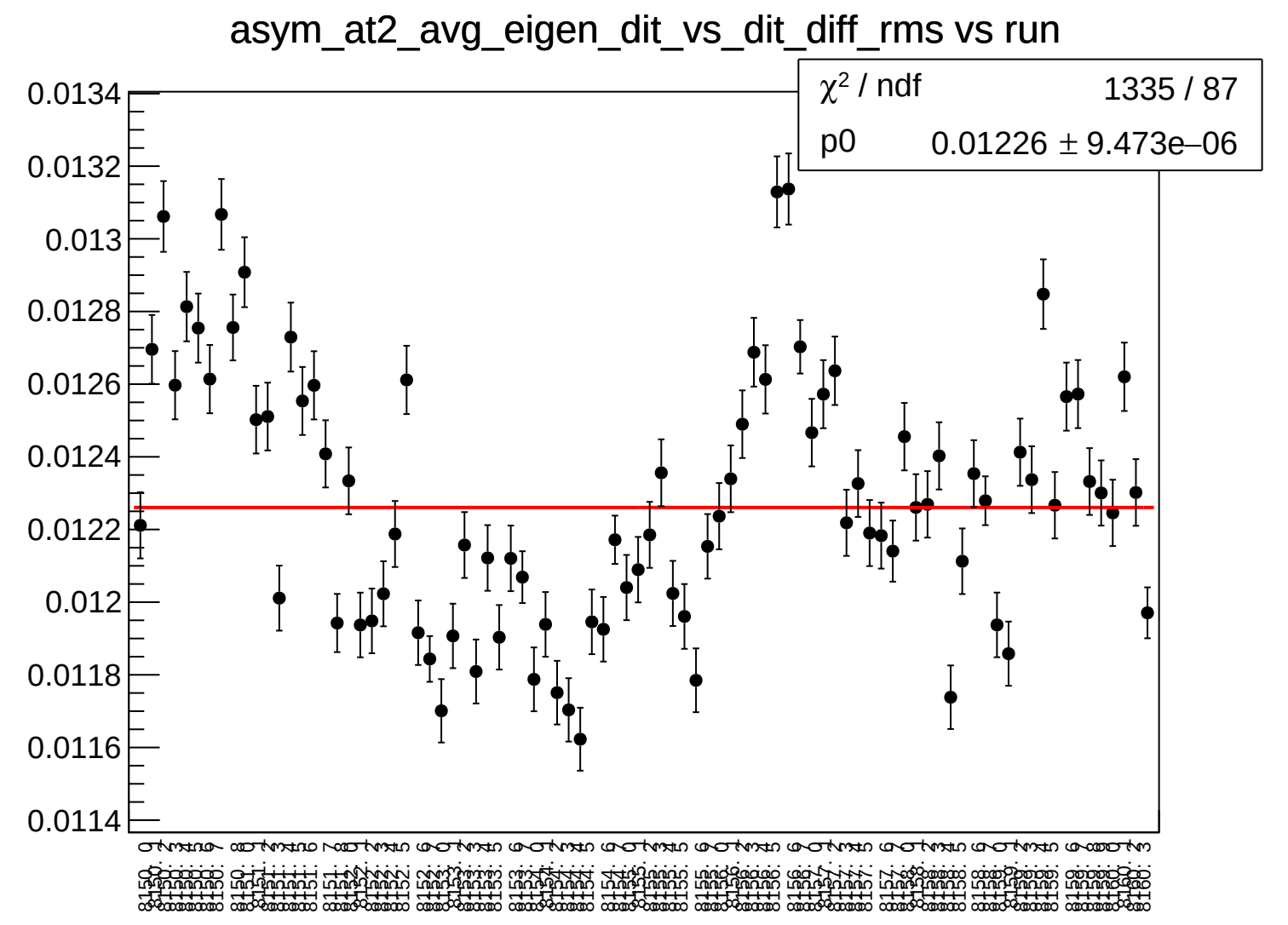

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.35 / 87
p0 −0.3909 ± 0.3262
pull
Entries 88
Mean 21.39
Std Dev 0
pull1D
Entries 88
Mean 0.007411
Std Dev 1.008

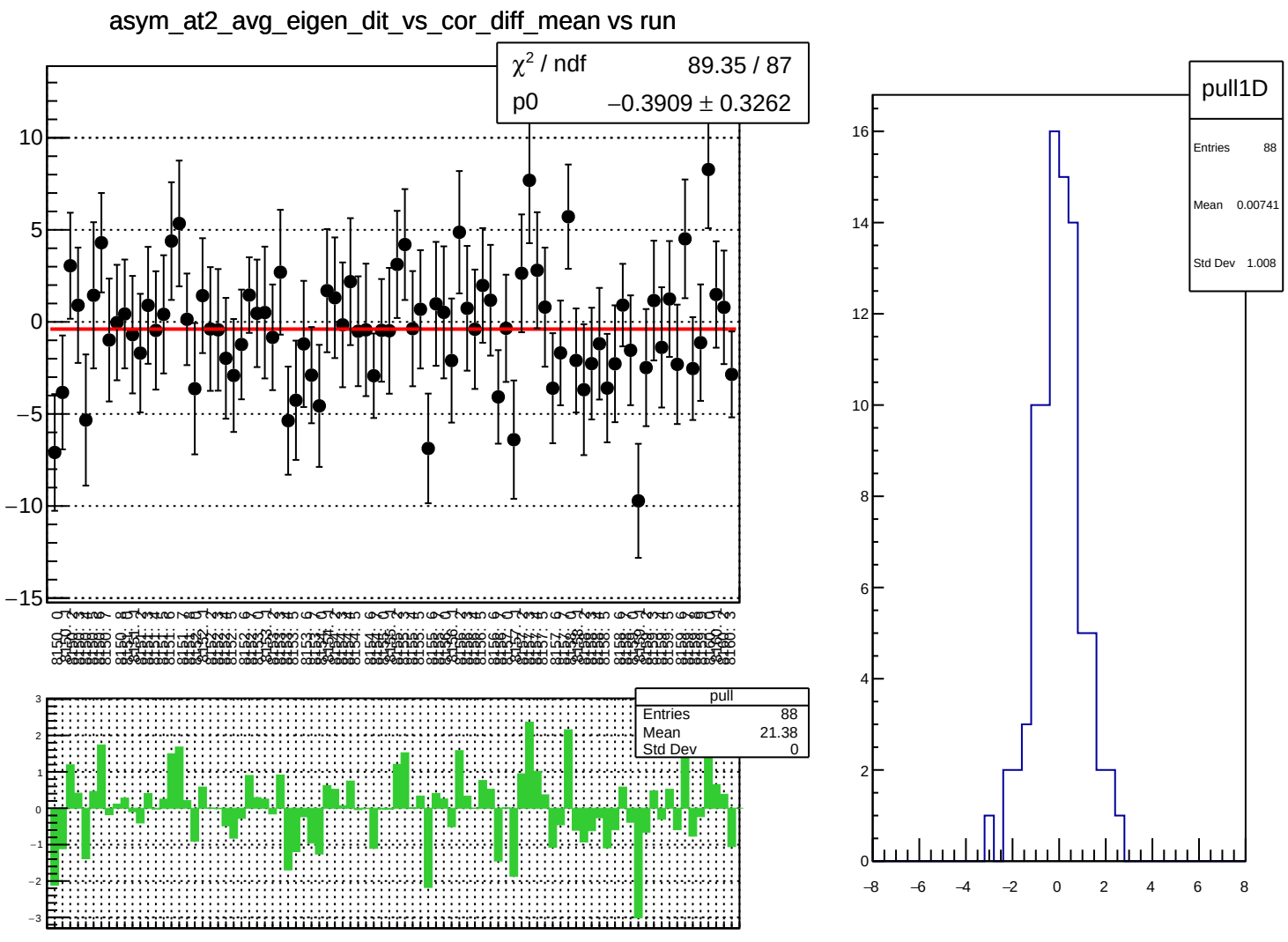

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8009 / 87
p0 298 ± 0.2307
380
360
340
320
300
280
260

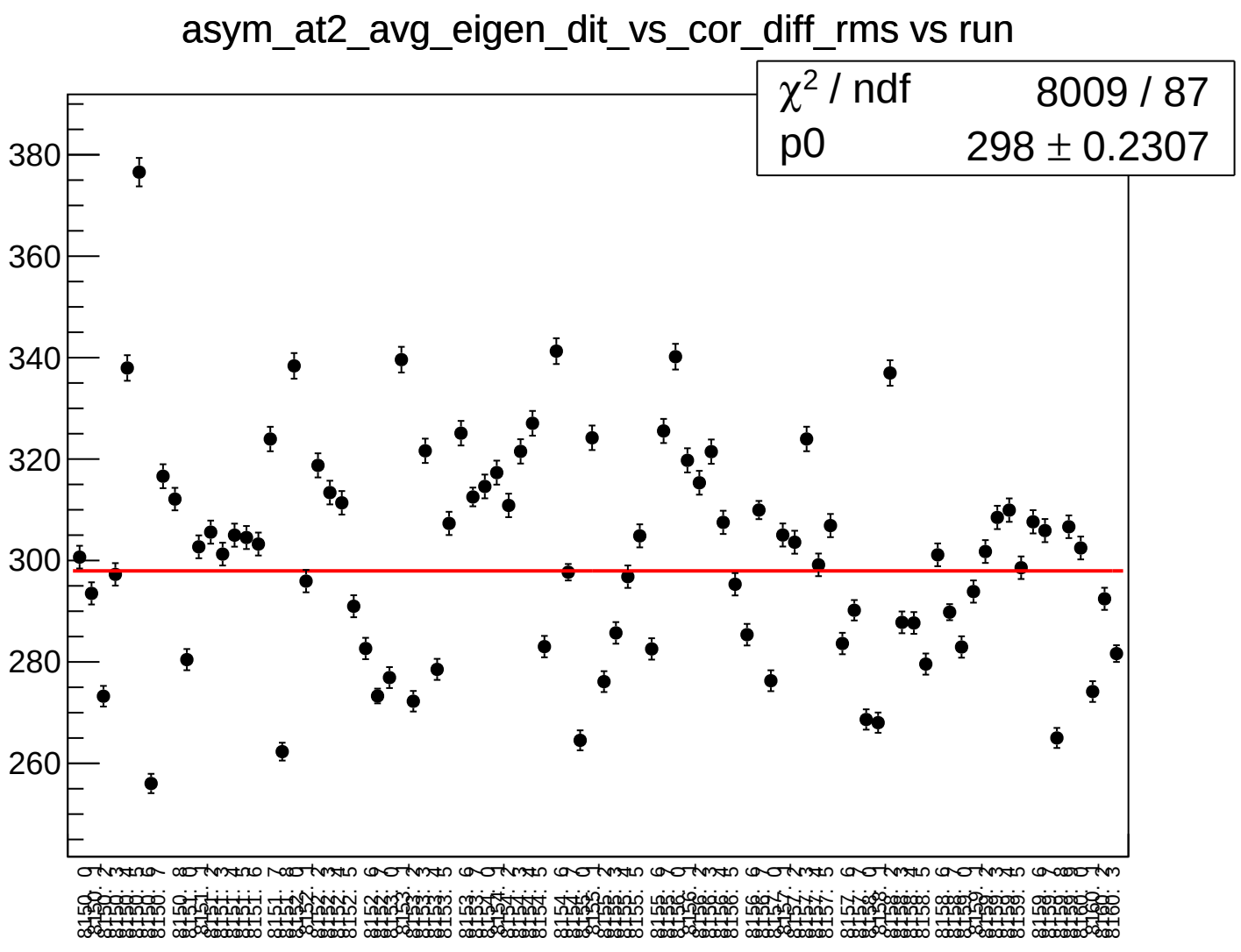

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.35 / 87
p0 −0.3909 ± 0.3262
pull
Entries 88
Mean 21.39
Std Dev 0
pull1D
Entries 88
Mean 0.007411
Std Dev 1.008

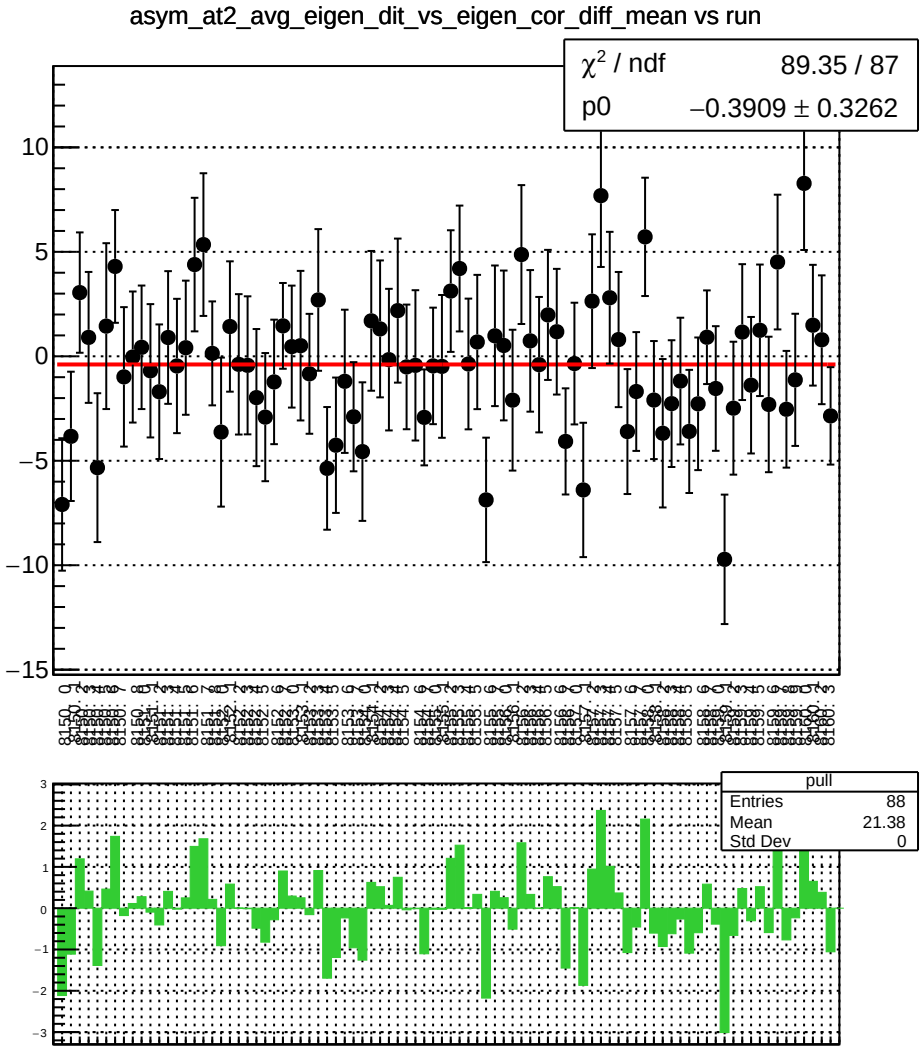

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8009 / 87
p0 298 ± 0.2307
380
360
340
320
300
280
260

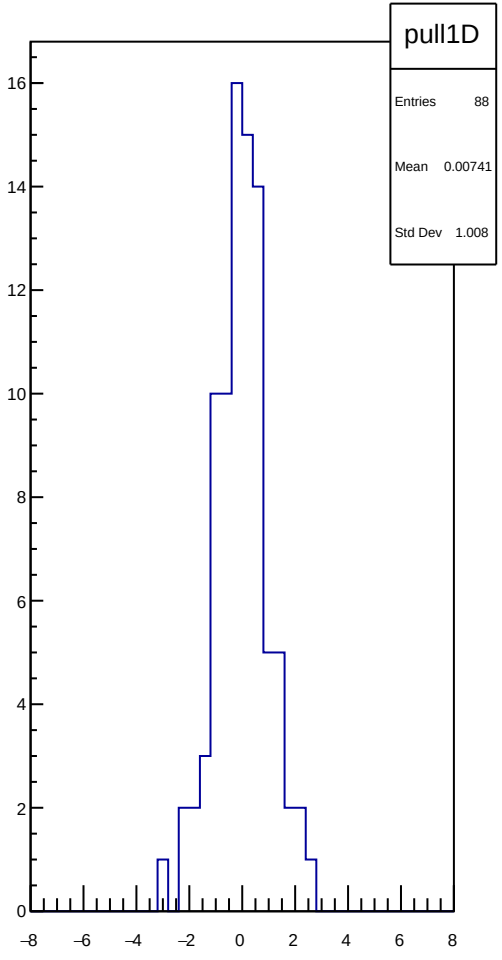

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.08 / 87
p0 −3.949e−05 ± 1.34e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 88
Mean 128.4
Std Dev 134.5
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002809
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

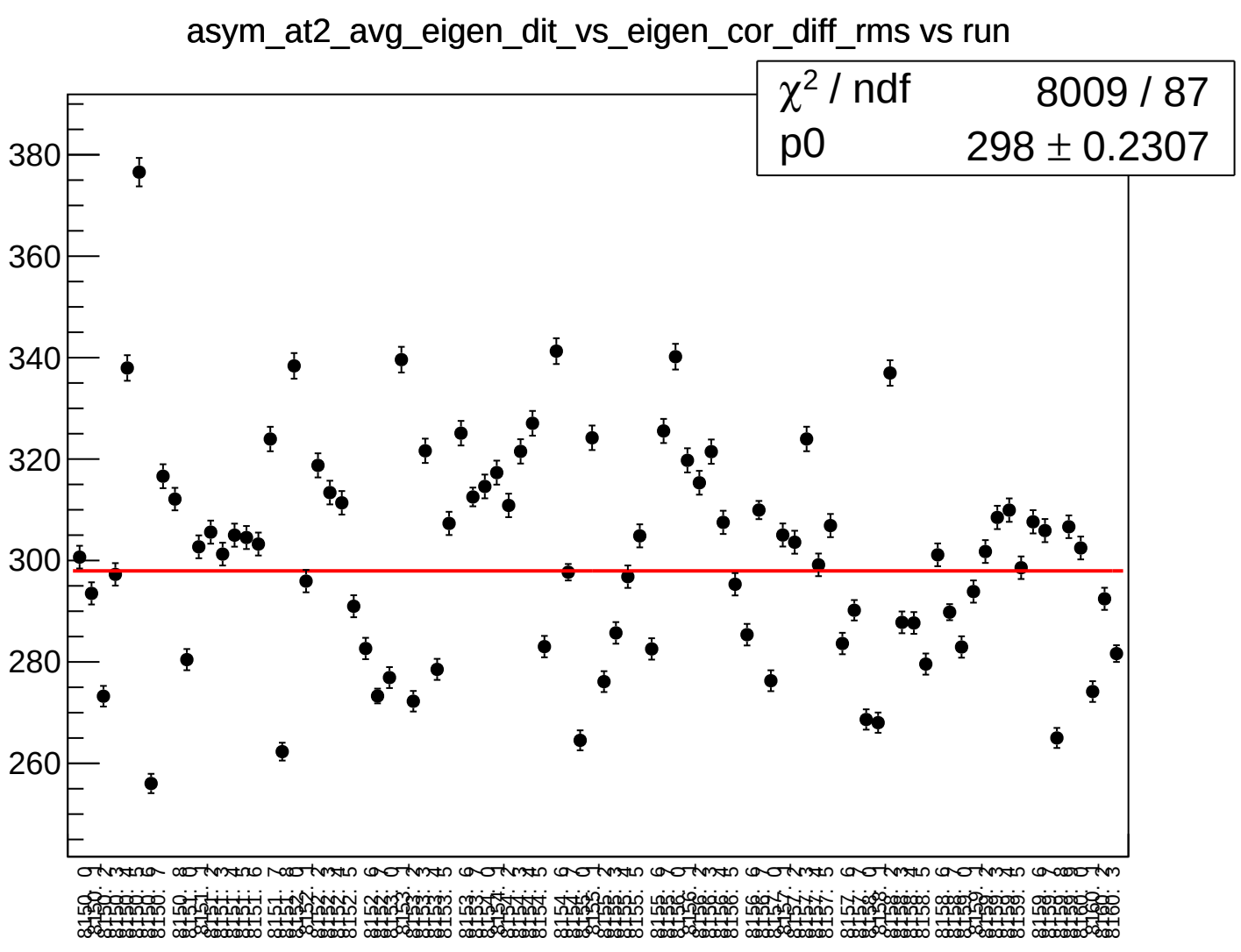

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1335 / 87
p0 0.01226 ± 9.473e–06
0.0134
0.0132
0.013
0.0128
0.0126
0.0124
0.0122
0.012
0.0118
0.0116
0.0114

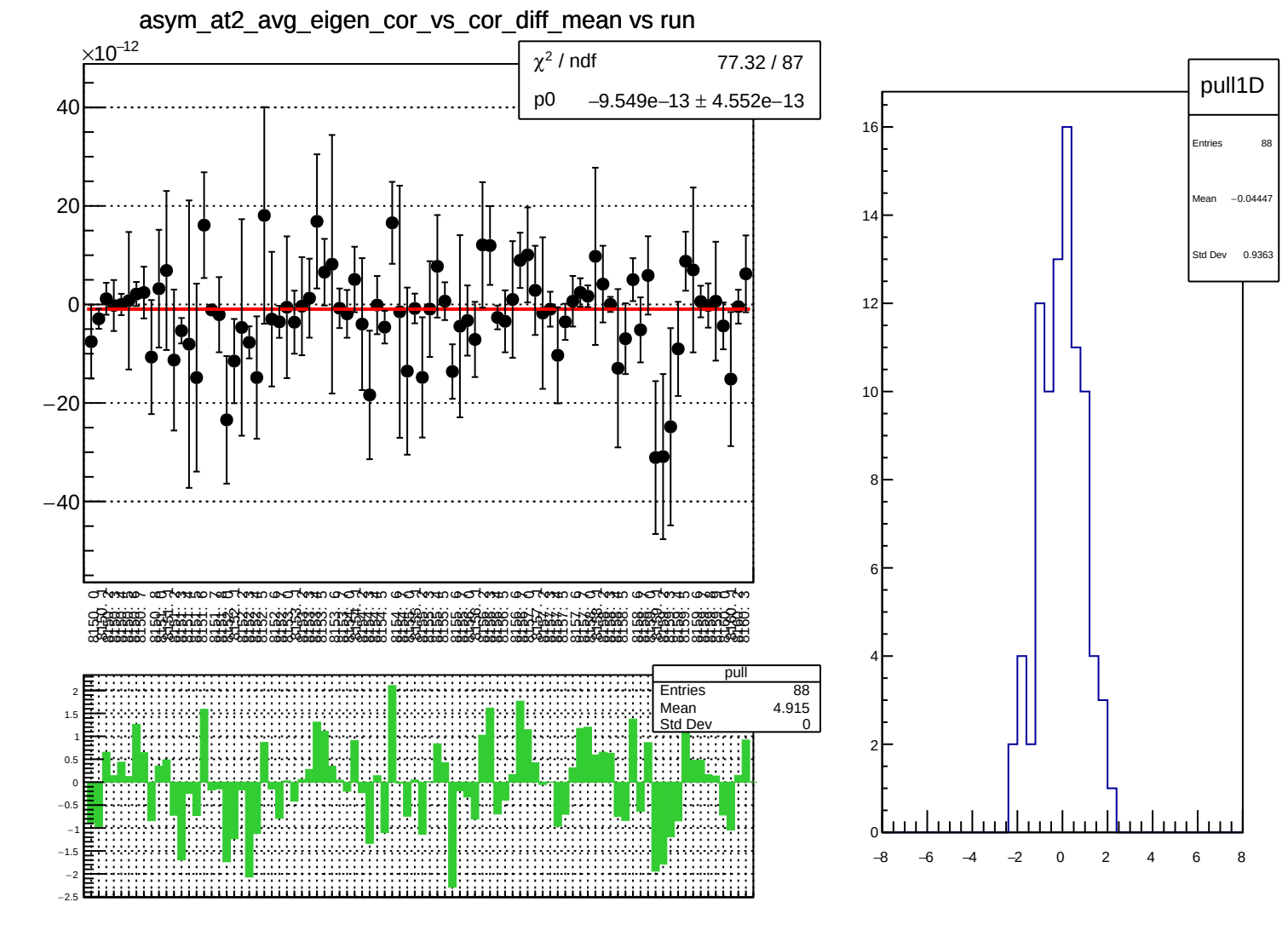

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.35 / 87
p0 −0.3909 ± 0.3262
pull
Entries 88
Mean 21.38
Std Dev 0
pull1D
Entries 88
Mean 0.00741
Std Dev 1.008

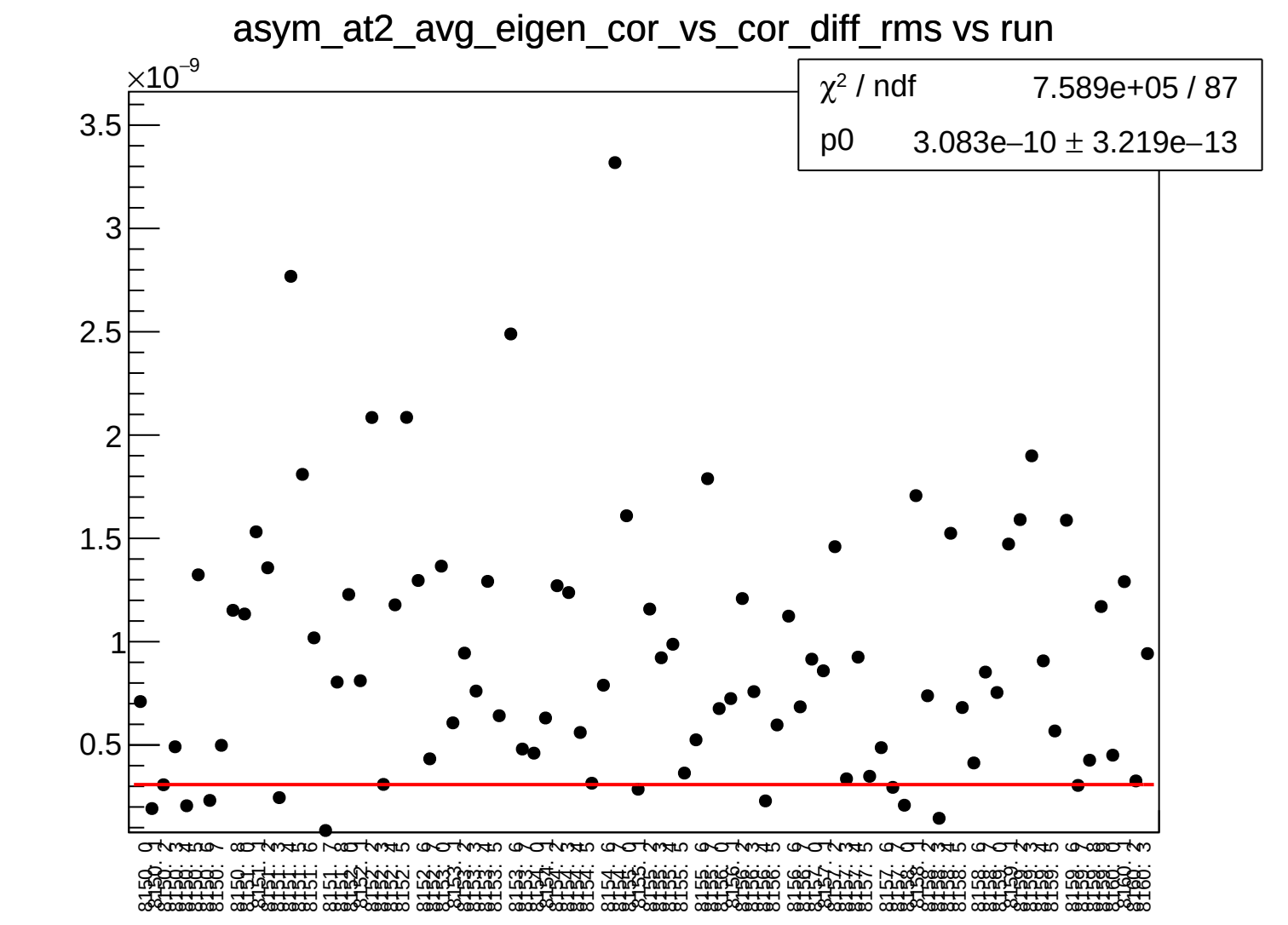

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8009 / 87
p0 298 ± 0.2307
380
360
340
320
300
280
260

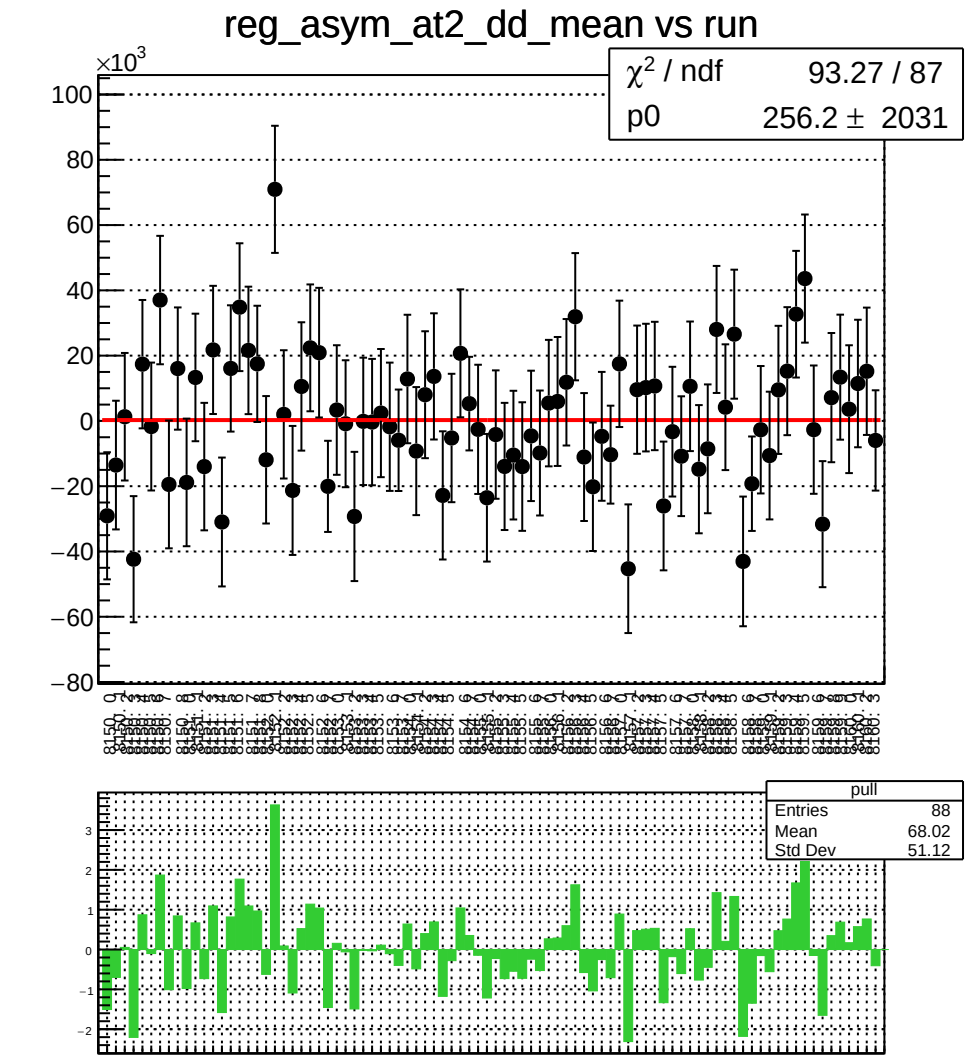

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.35 / 87
p0 −0.3909 ± 0.3262
pull
Entries 88
Mean 21.38
Std Dev 0

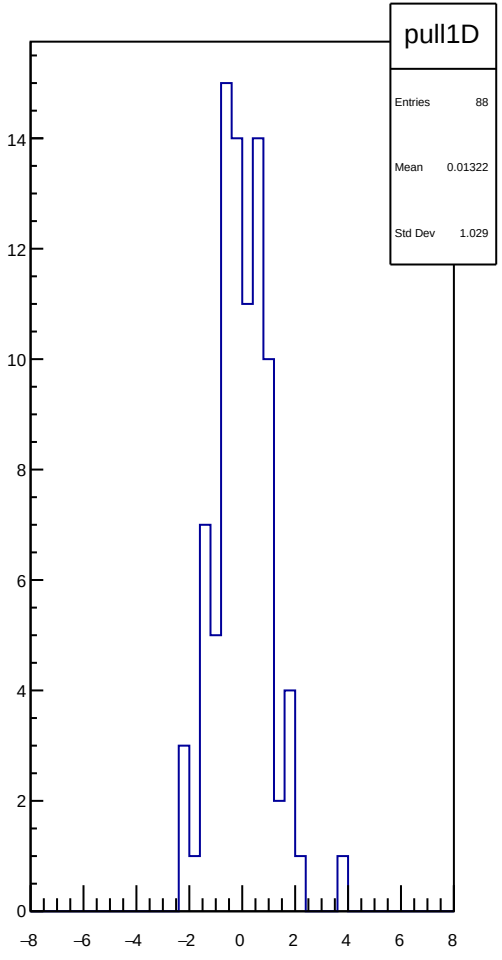

pull1D
Entries 88
Mean 0.00741
Std Dev 1.008

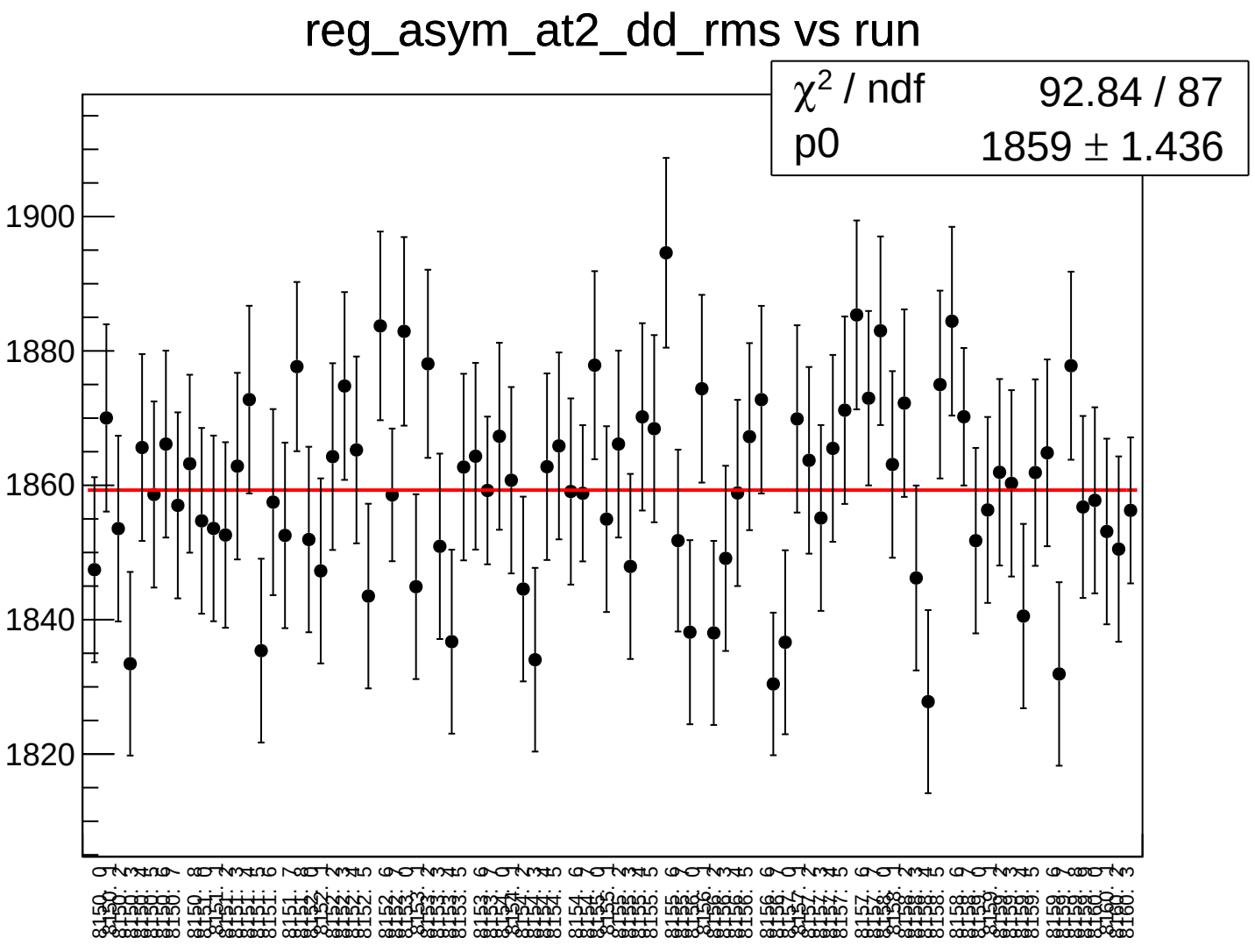

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8009 / 87
p0 298 ± 0.2307
380
360
340
320
300
280
260

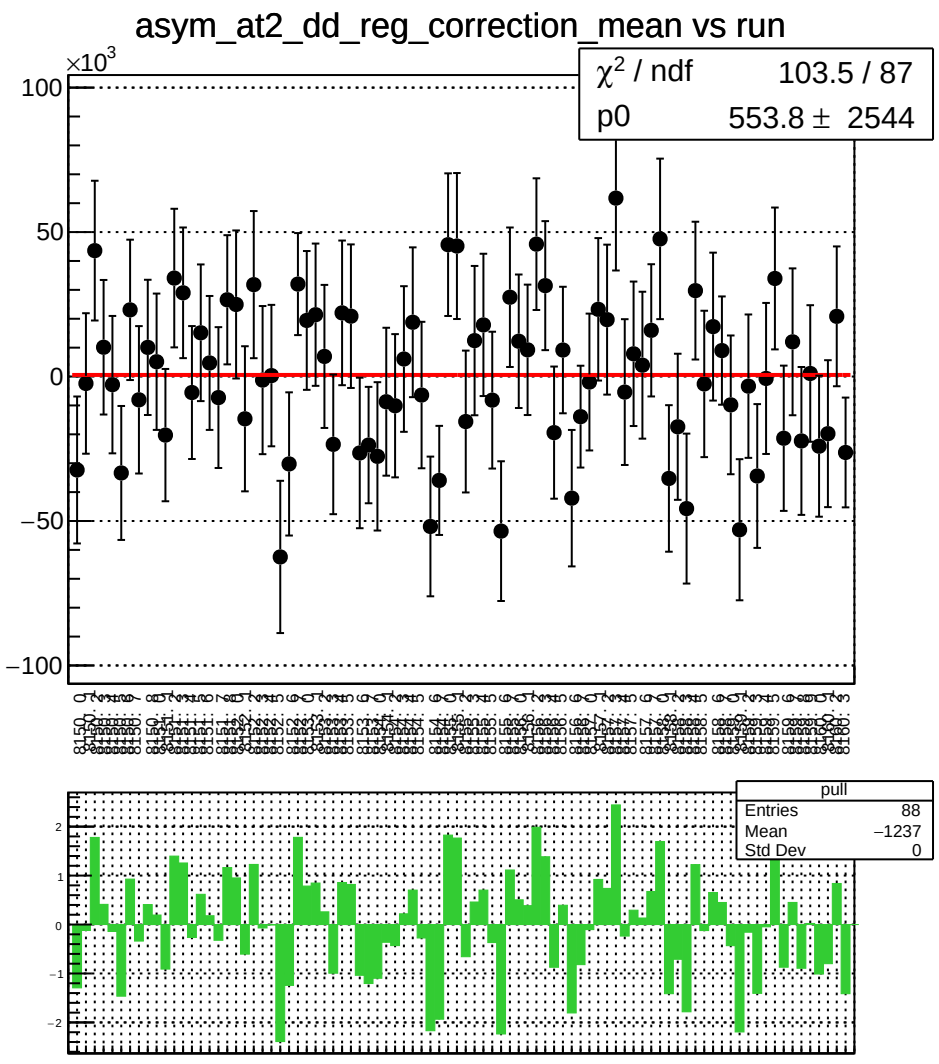

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.32 / 87
p0 −9.549e−13 ± 4.552e−13
pull
Entries 88
Mean 4.915
Std Dev 0
pull1D
Entries 88
Mean −0.04447
Std Dev 0.9363

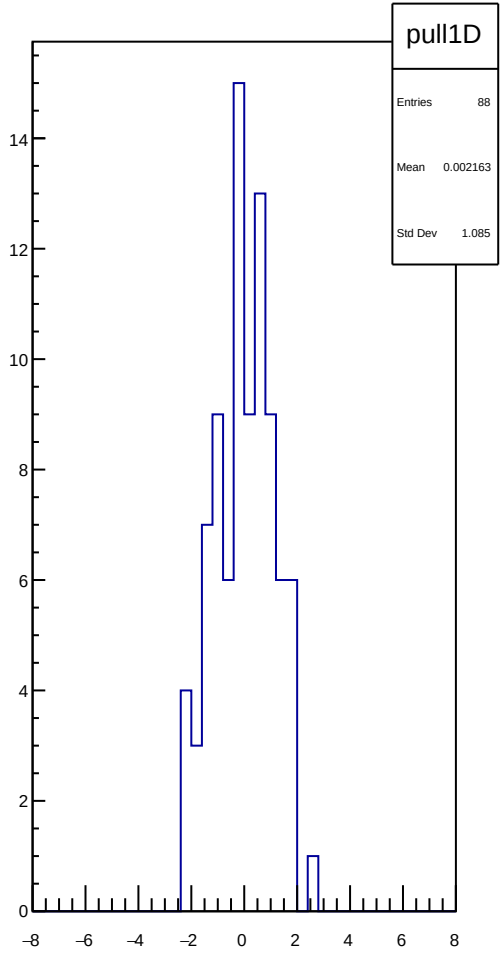

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.589e+05 / 87
p0 3.083e−10 ± 3.219e−13
3.5
3
2.5
2
1.5
1
0.5

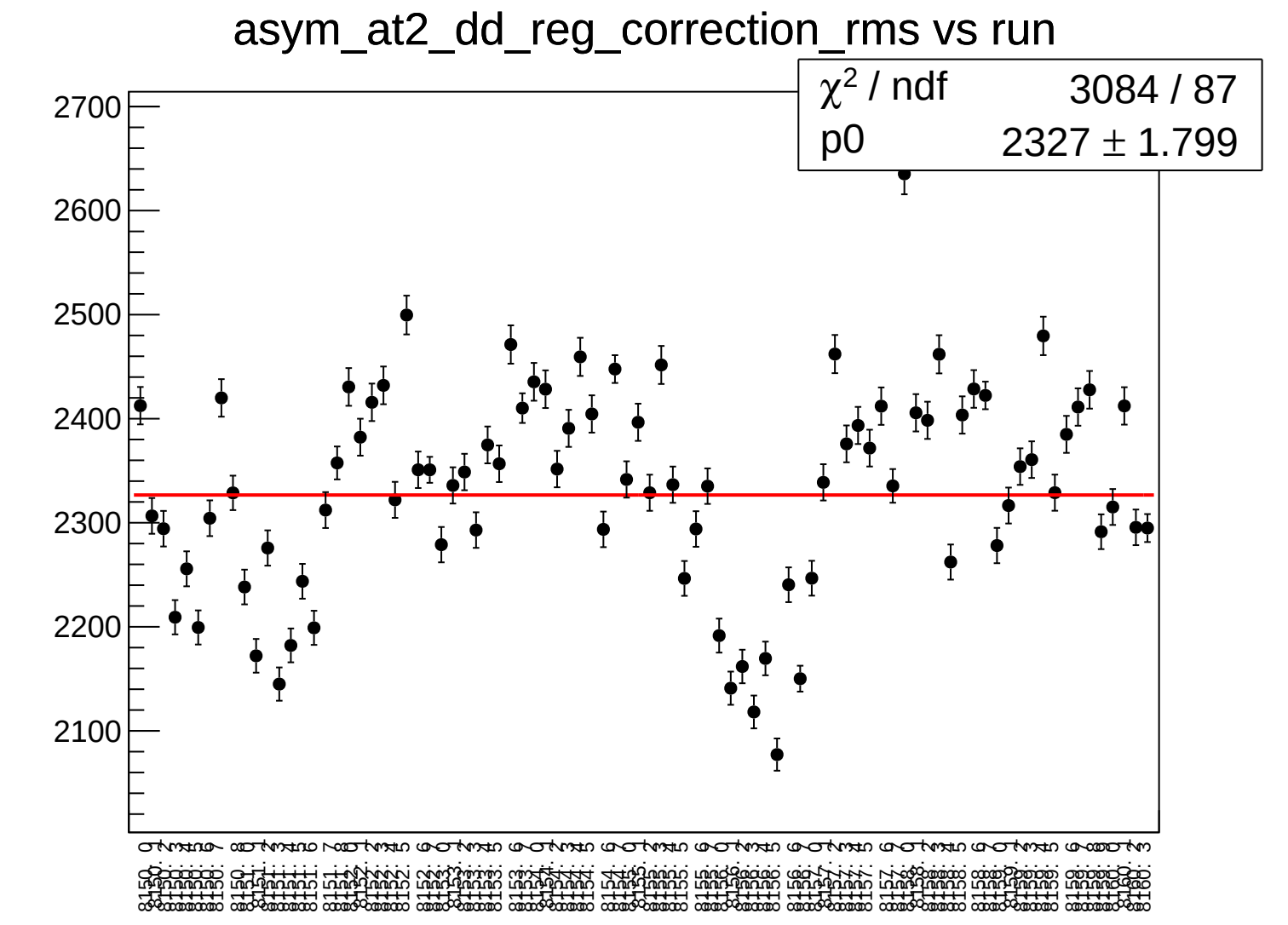

reg_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 93.27 / 87
p0 256.2 ± 2031
pull
Entries 88
Mean 68.02
Std Dev 51.12

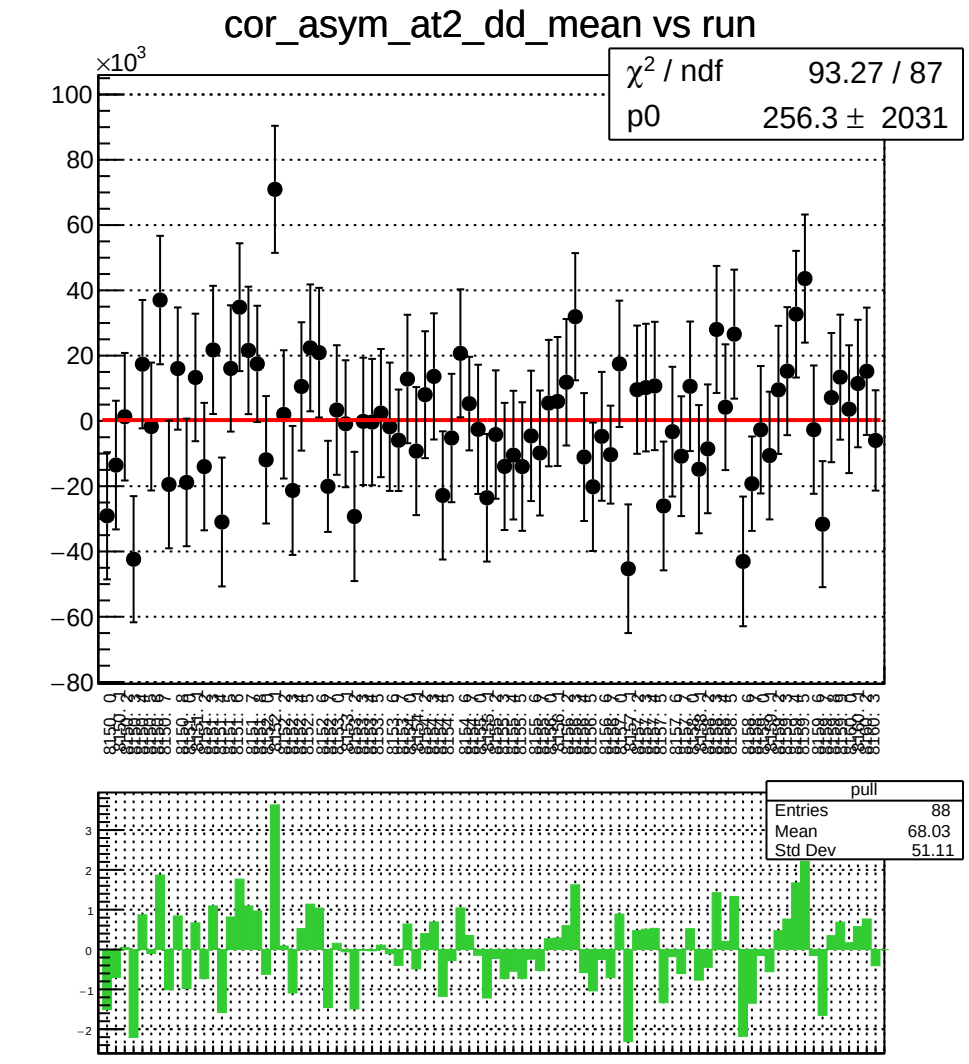

pull1D
Entries 88
Mean 0.01322
Std Dev 1.029

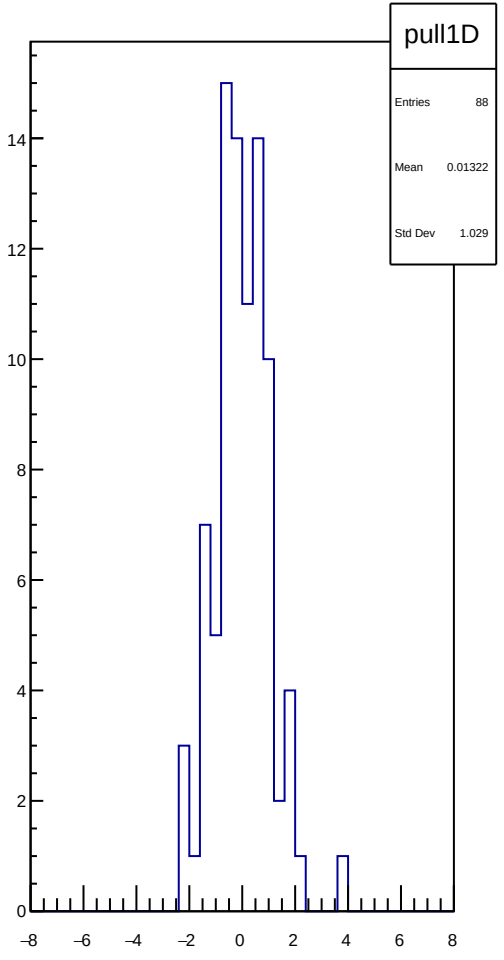

reg_asym_at2_dd_rms vs run
χ² / ndf 92.84 / 87
p0 1859 ± 1.436
1900
1880
1860
1840
1820

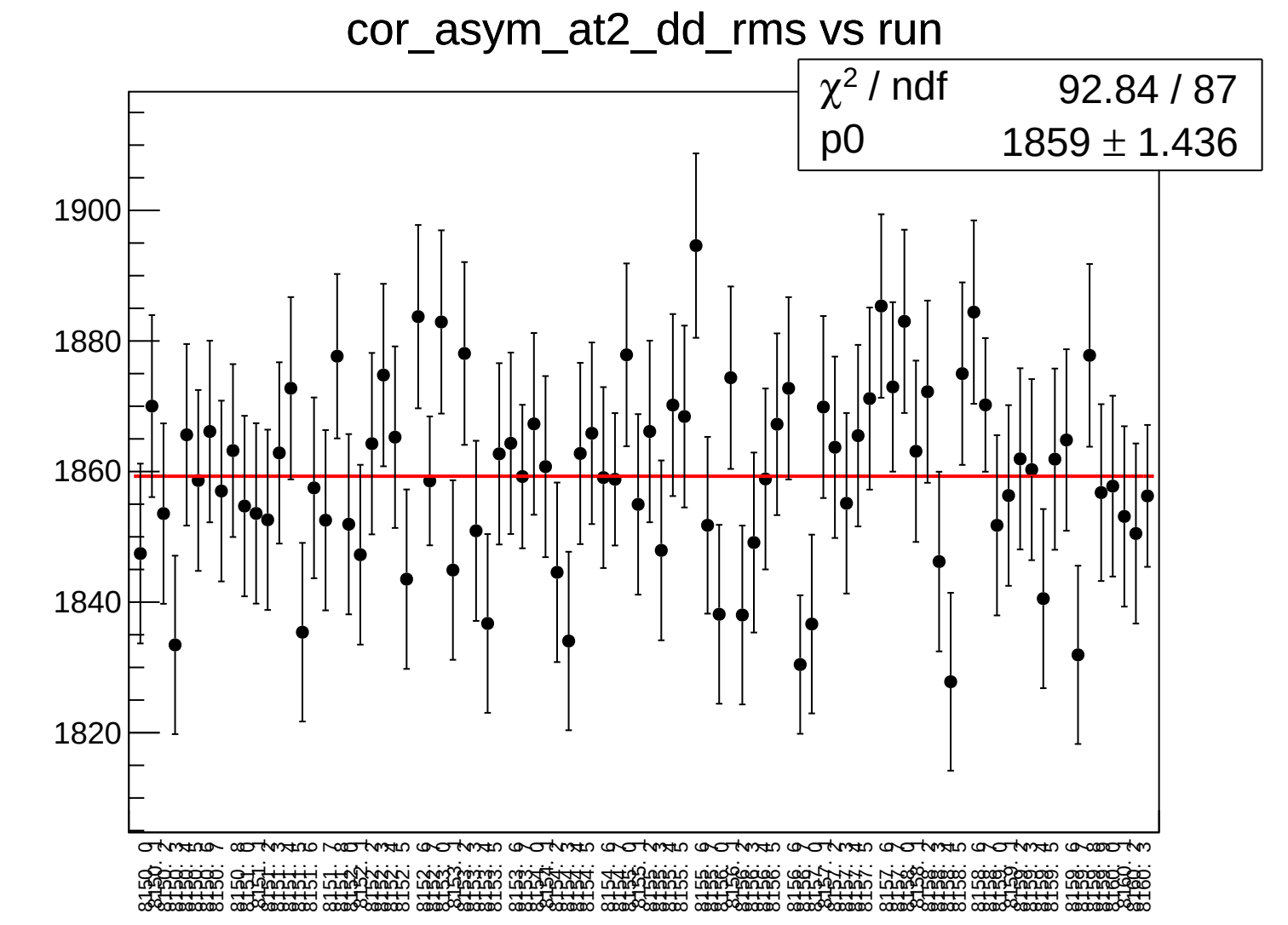

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 103.5 / 87
p0 553.8 ± 2544
pull
Entries 88
Mean −1237
Std Dev 0

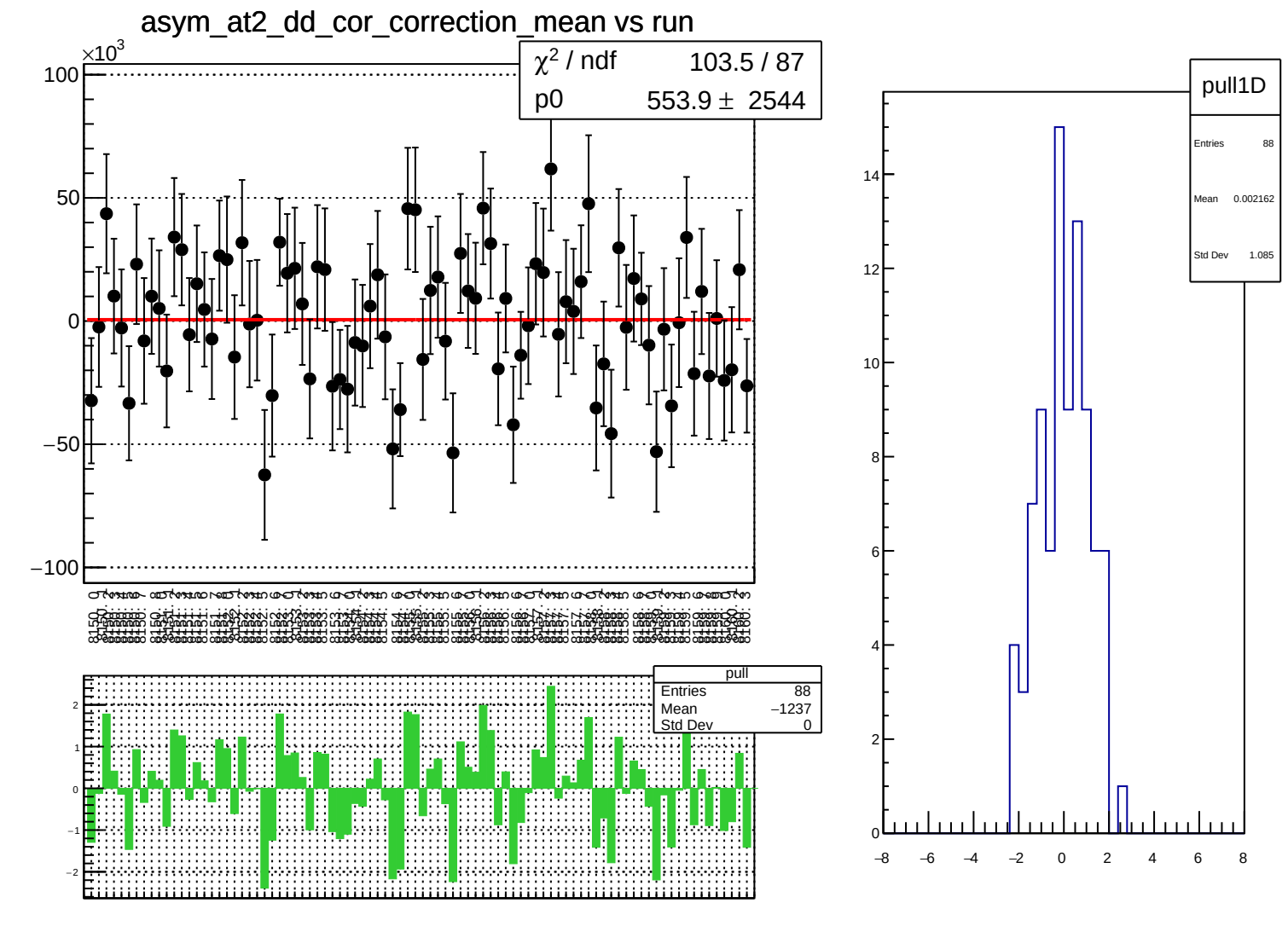

pull1D
Entries 88
Mean 0.002163
Std Dev 1.085

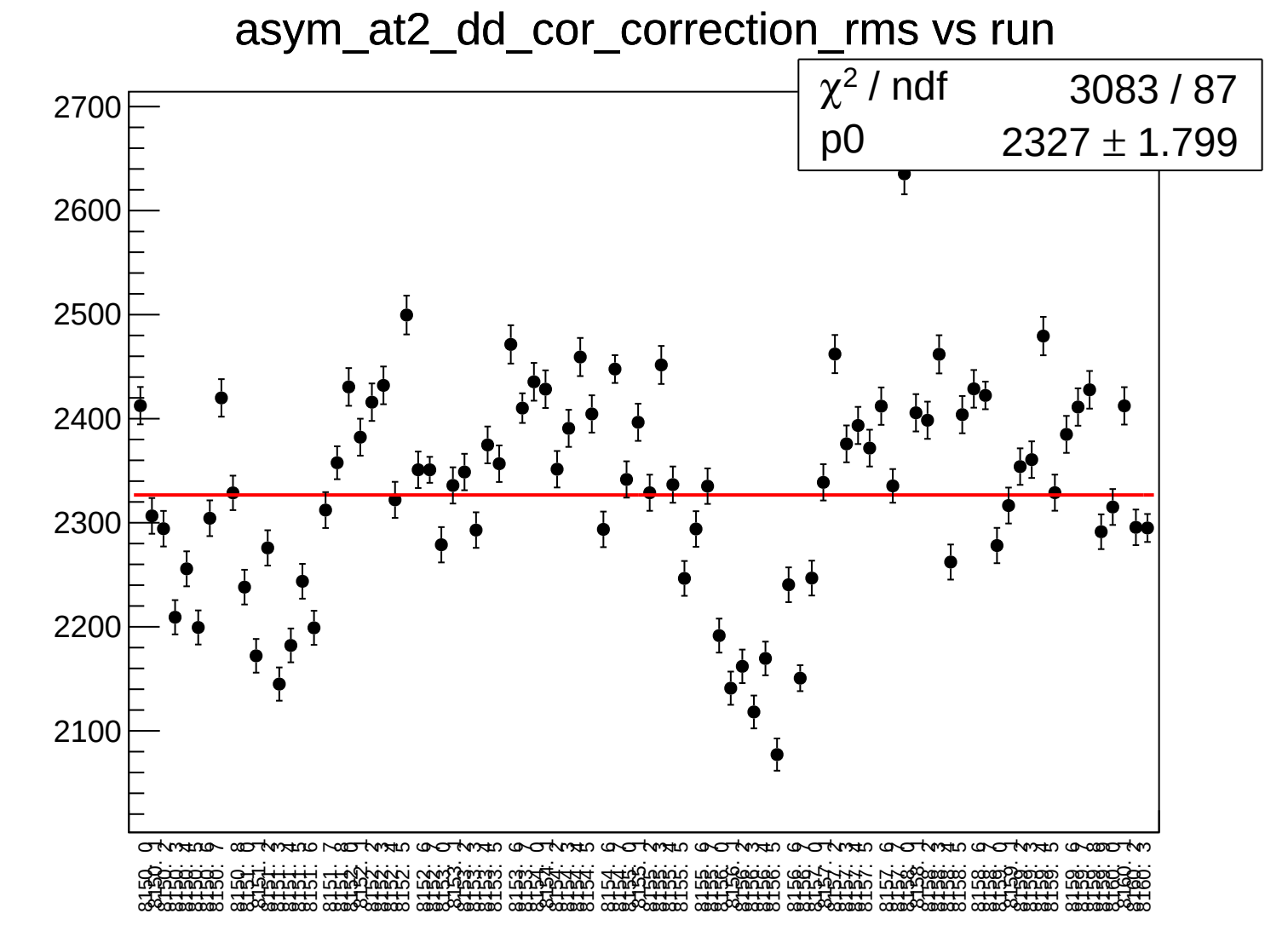

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 3084 / 87
p0 2327 ± 1.799
2700
2600
2500
2400
2300
2200
2100

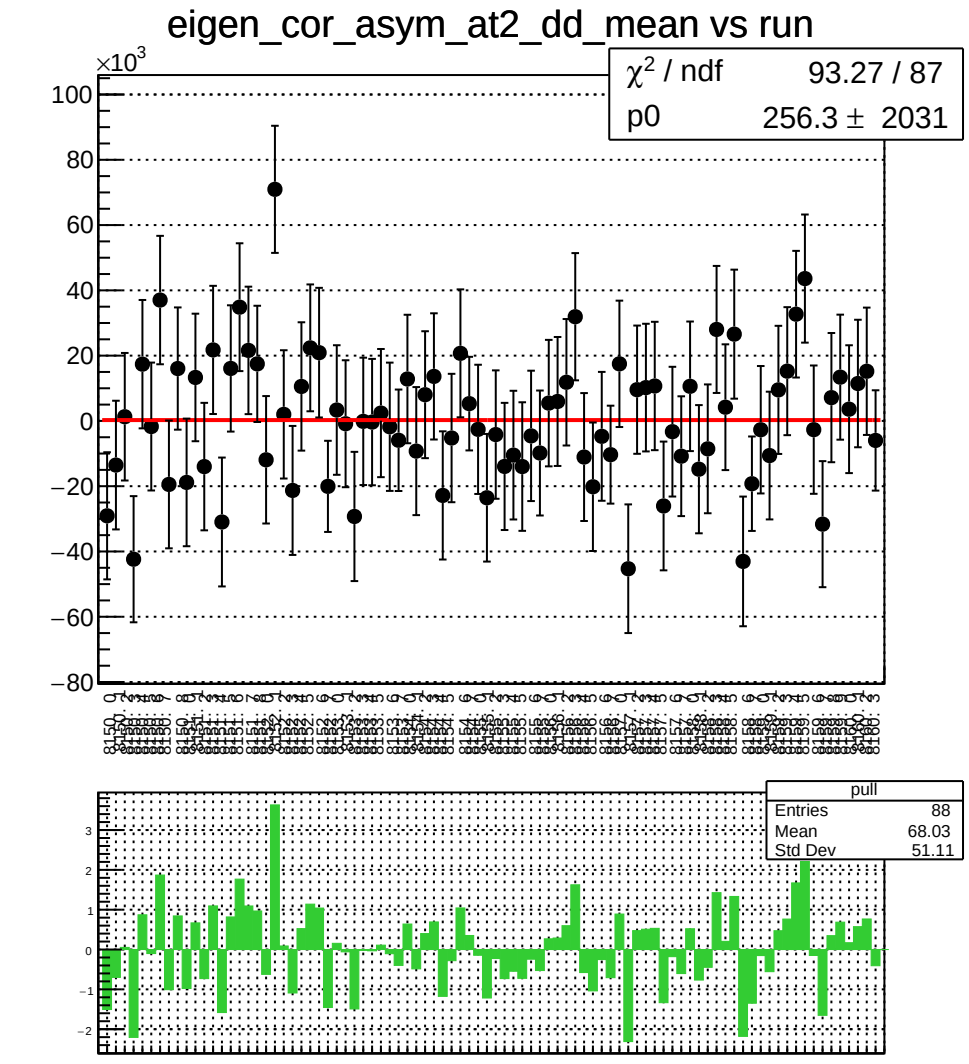

cor_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 93.27 / 87
p0 256.3 ± 2031
pull
Entries 88
Mean 68.03
Std Dev 51.11

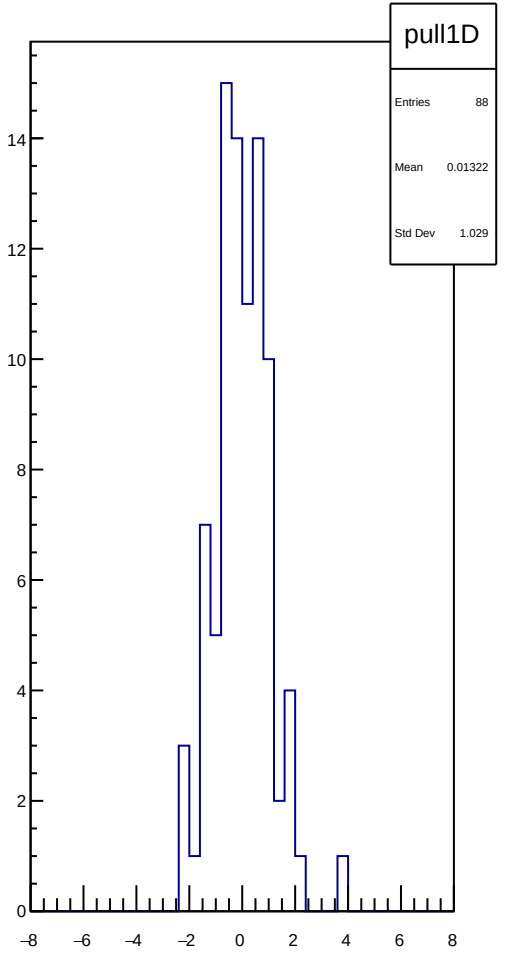

pull1D
Entries 88
Mean 0.01322
Std Dev 1.029

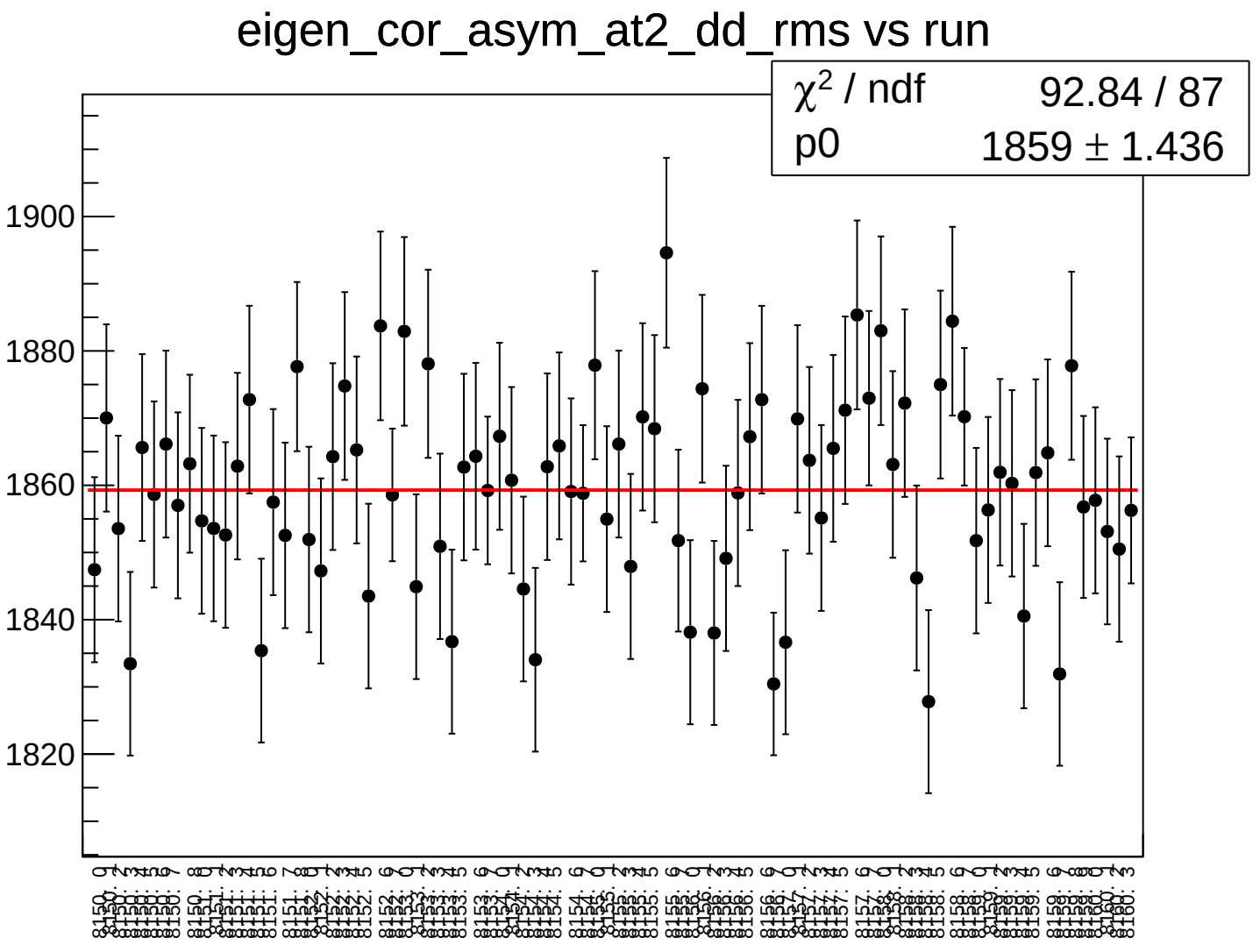

cor_asym_at2_dd_rms vs run
χ² / ndf 92.84 / 87
p0 1859 ± 1.436
1900
1880
1860
1840
1820

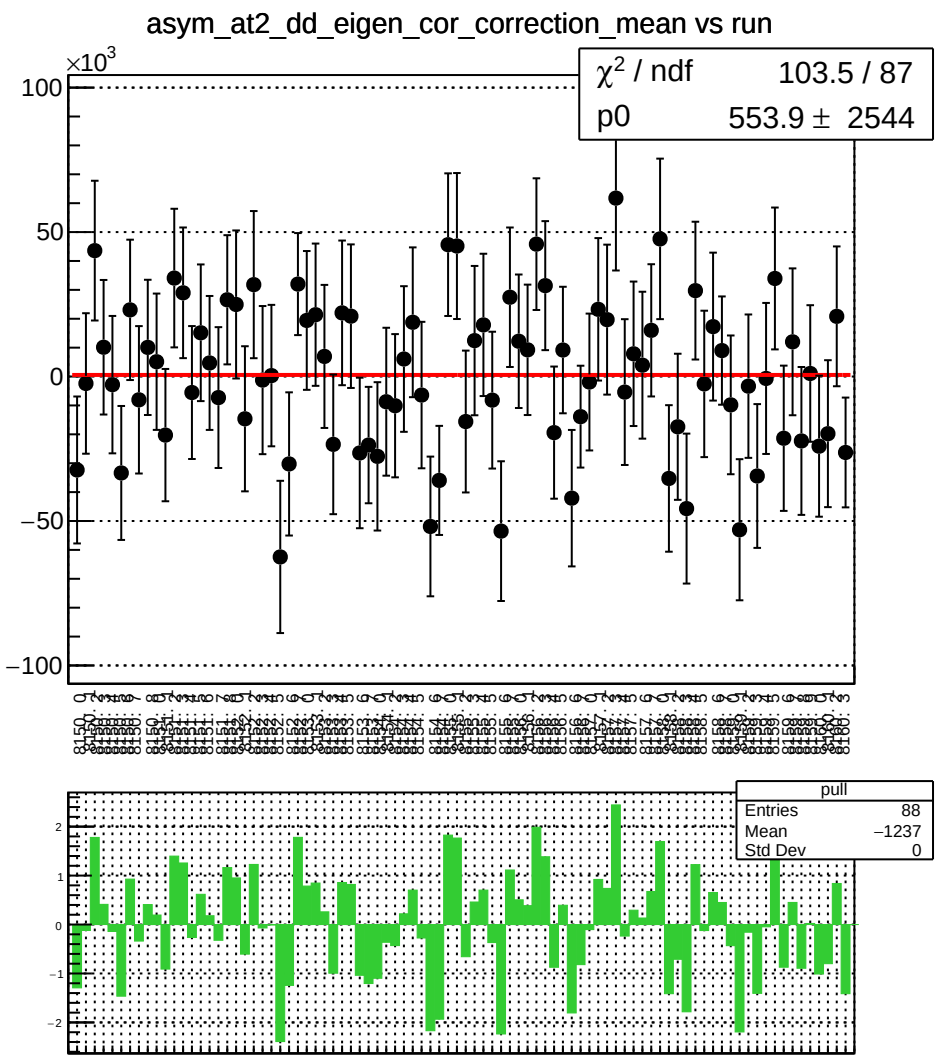

asym_at2_dd_cor_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 103.5 / 87
p0 553.9 ± 2544
pull
Entries 88
Mean −1237
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.002162
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

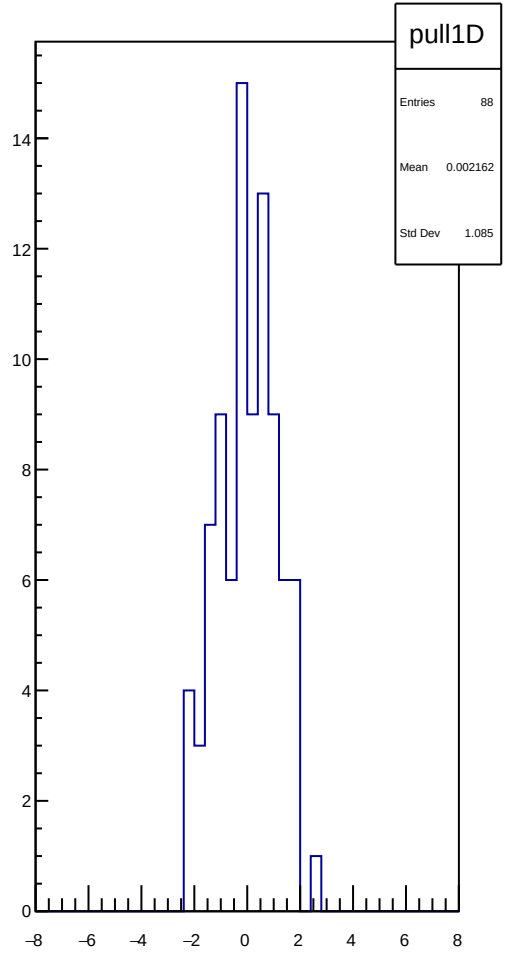

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 3083 / 87
p0 2327 ± 1.799
2700
2600
2500
2400
2300
2200
2100

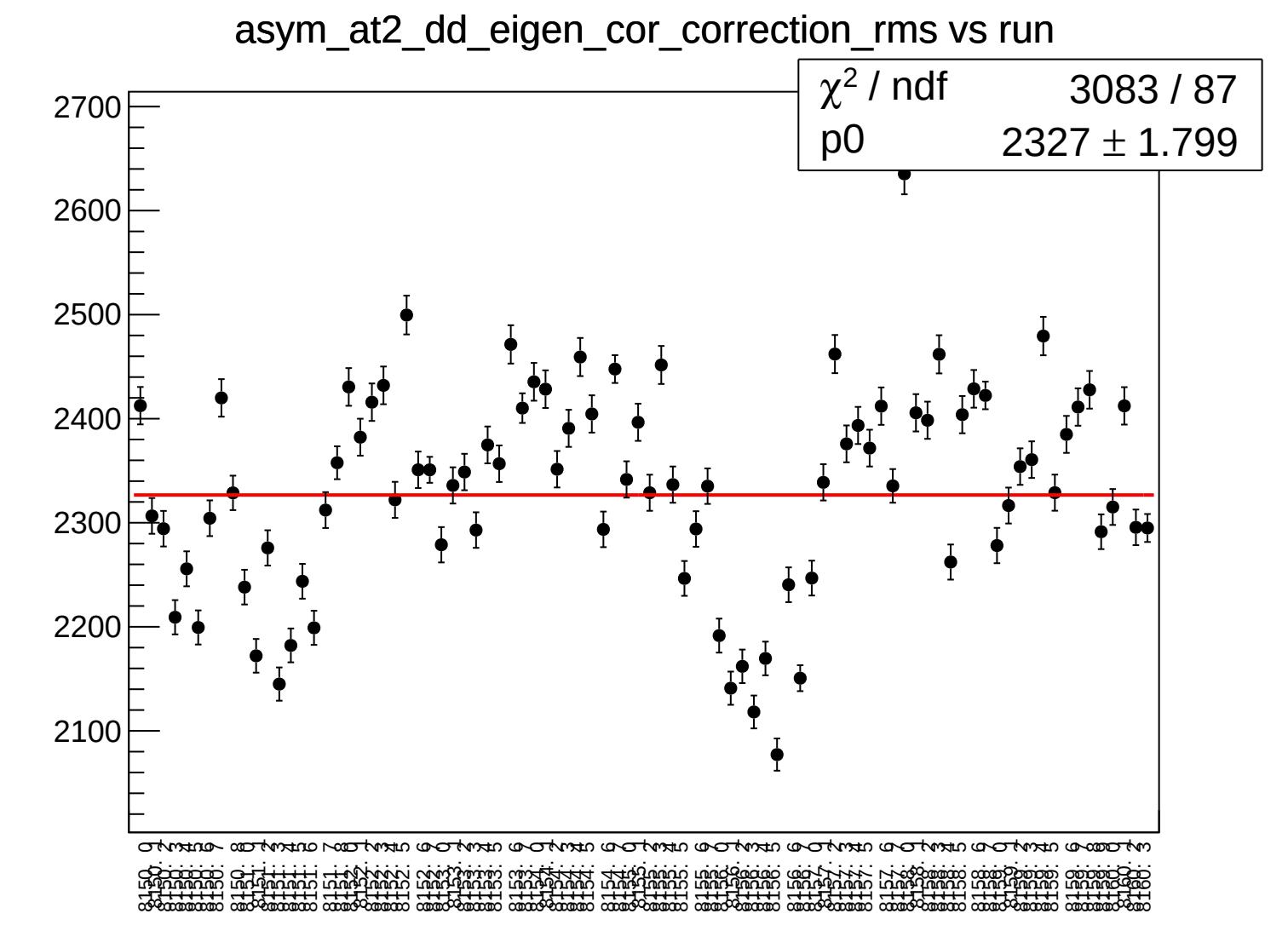

eigen_cor_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 93.27 / 87
p0 256.3 ± 2031
pull
Entries 88
Mean 68.03
Std Dev 51.11

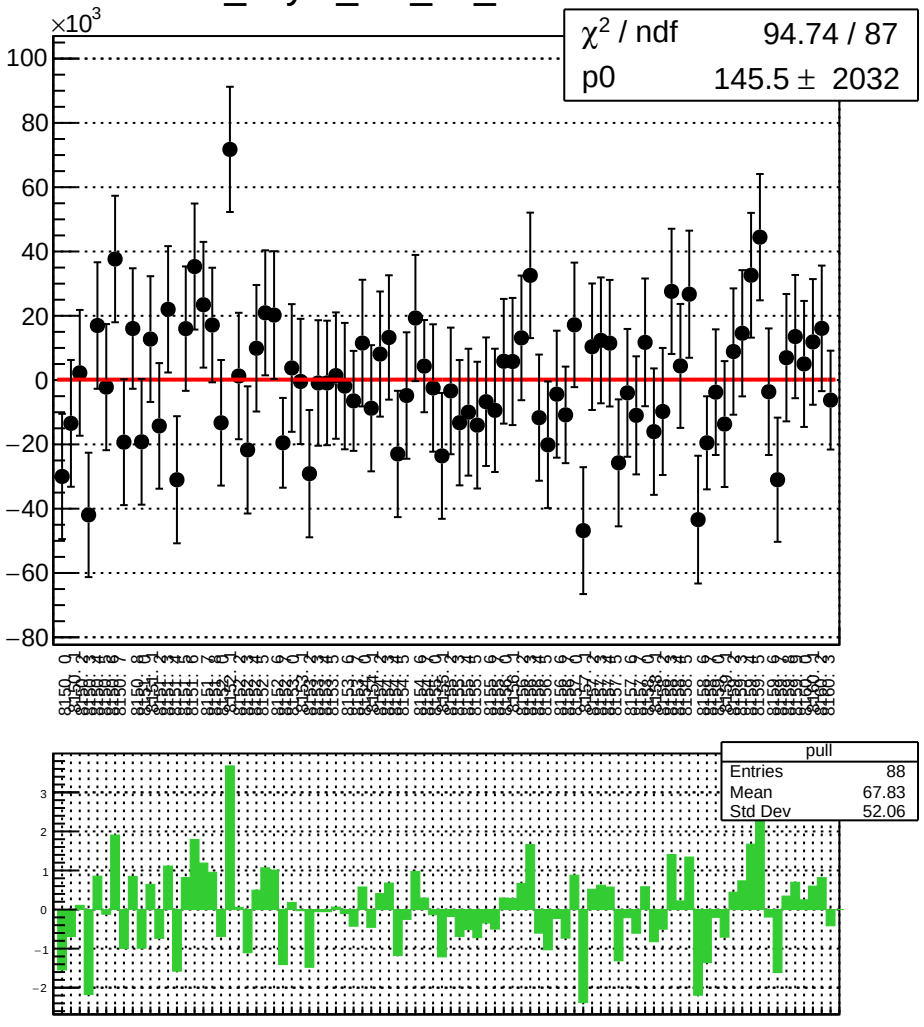

pull1D
Entries 88
Mean 0.01322
Std Dev 1.029

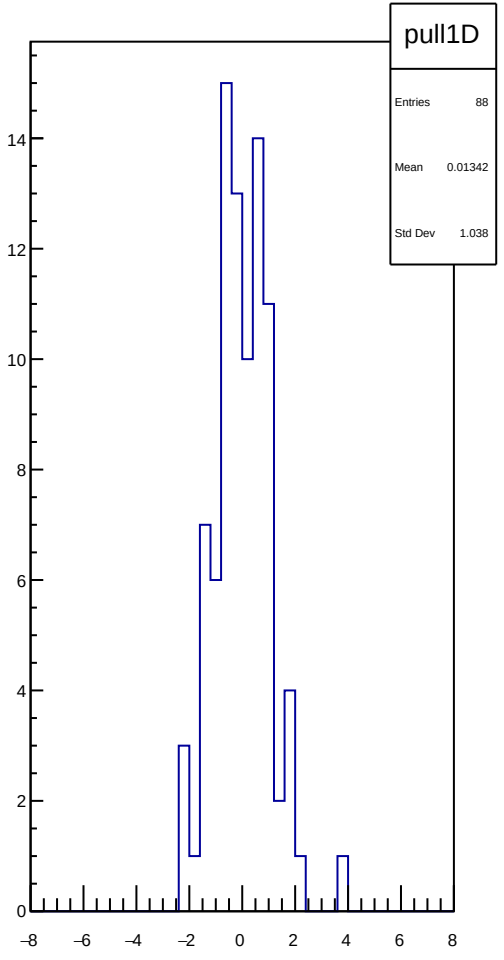

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 92.84 / 87
p0 1859 ± 1.436
1900
1880
1860
1840
1820

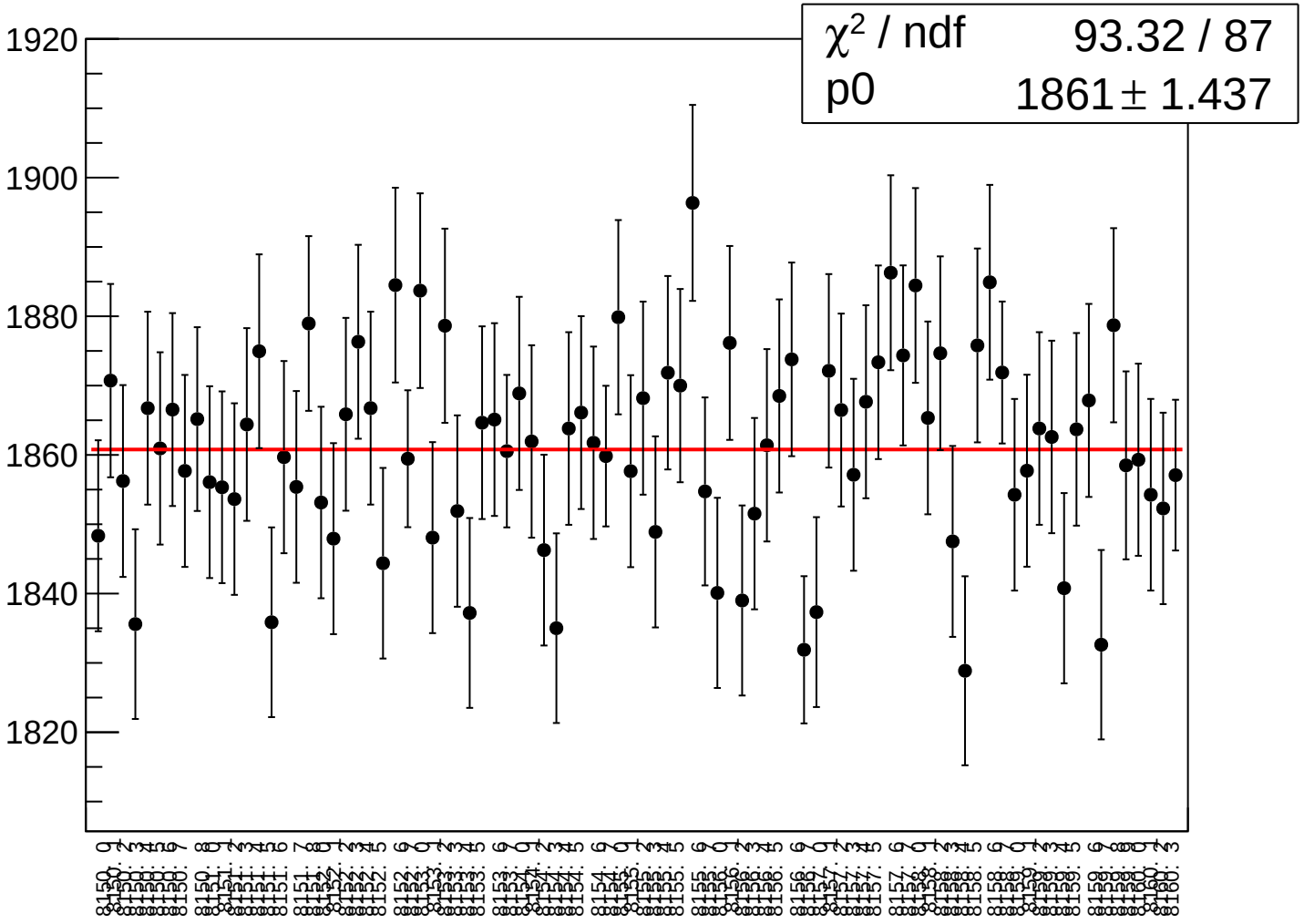

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 103.5 / 87
p0 553.9 ± 2544
100
50
0
−50
−100
pull
Entries 88
Mean −1237
Std Dev 0
2
1
0
−1
−2

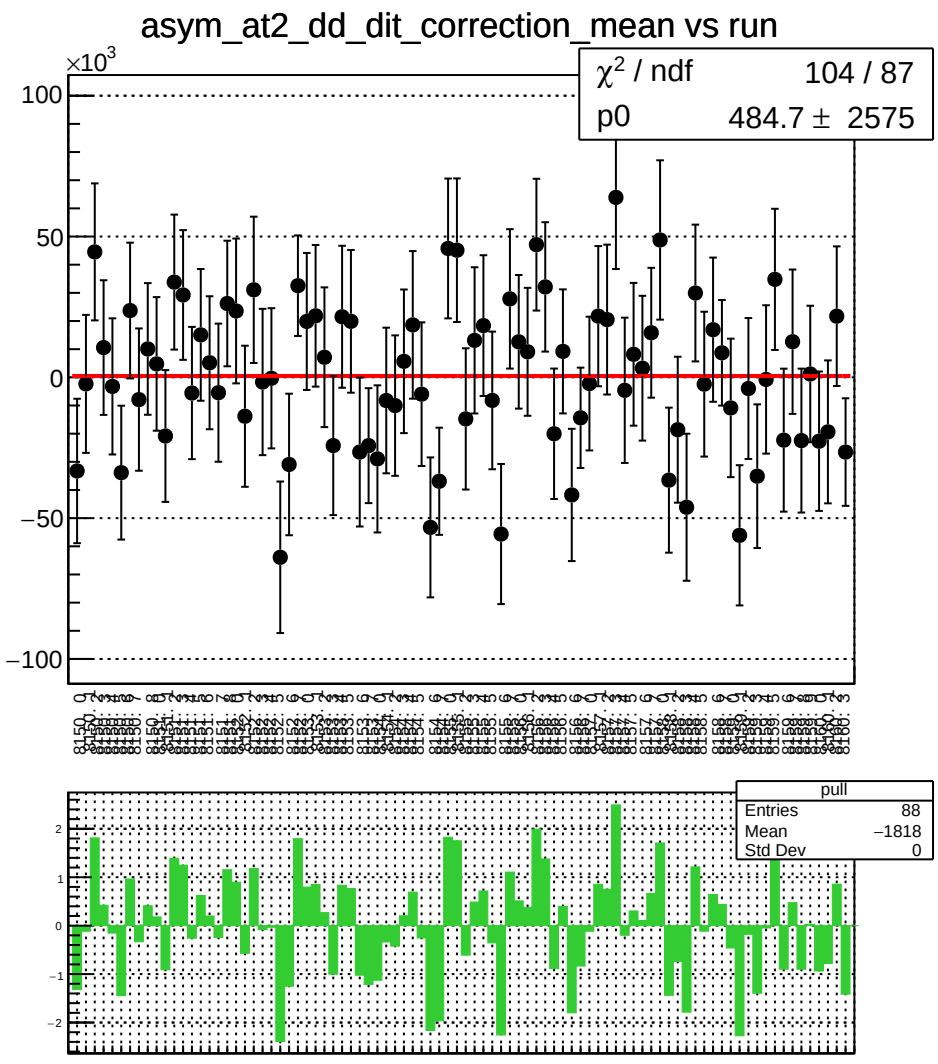

pull1D
Entries 88
Mean 0.002162
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

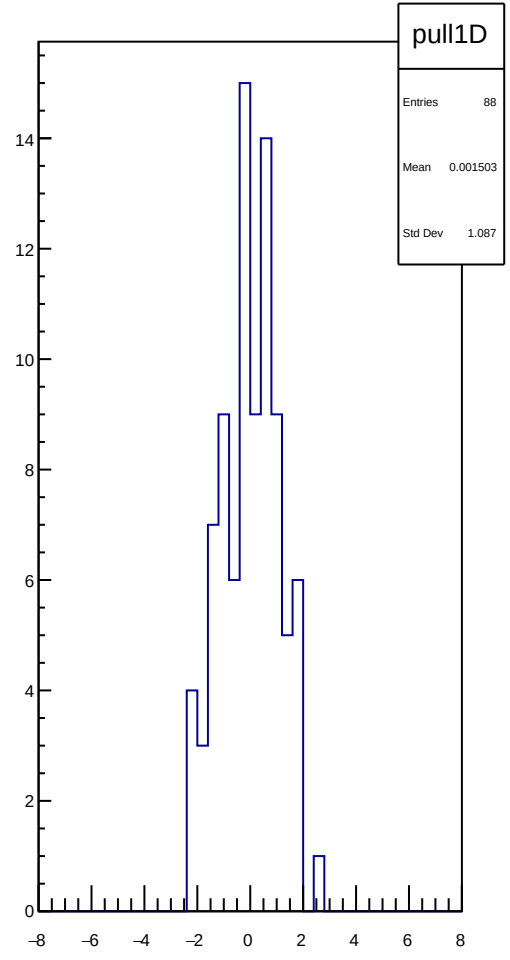

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3083 / 87
p0 2327 ± 1.799
2700
2600
2500
2400
2300
2200
2100

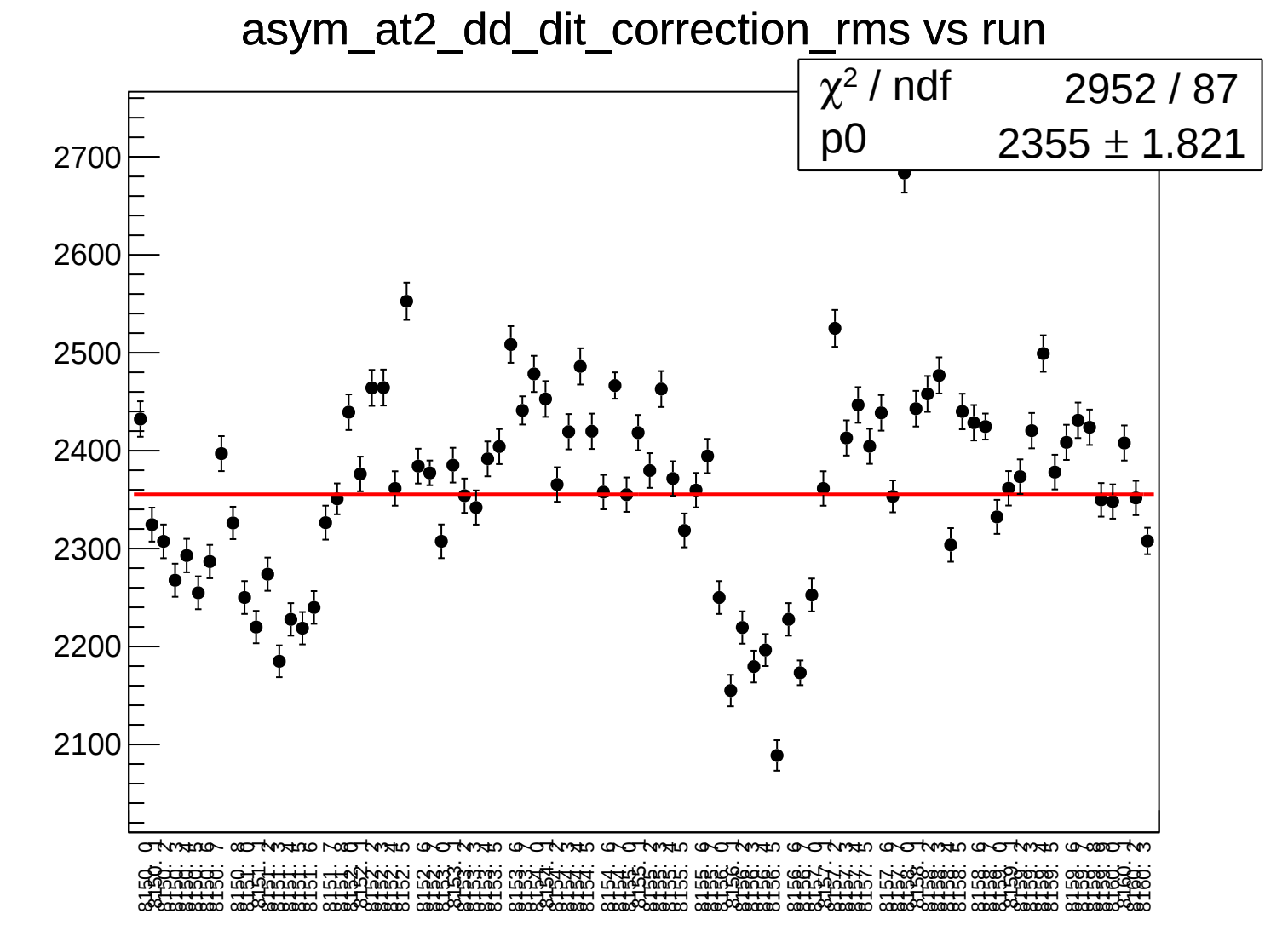

dit_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 94.74 / 87
p0 145.5 ± 2032
pull
Entries 88
Mean 67.83
Std Dev 52.06

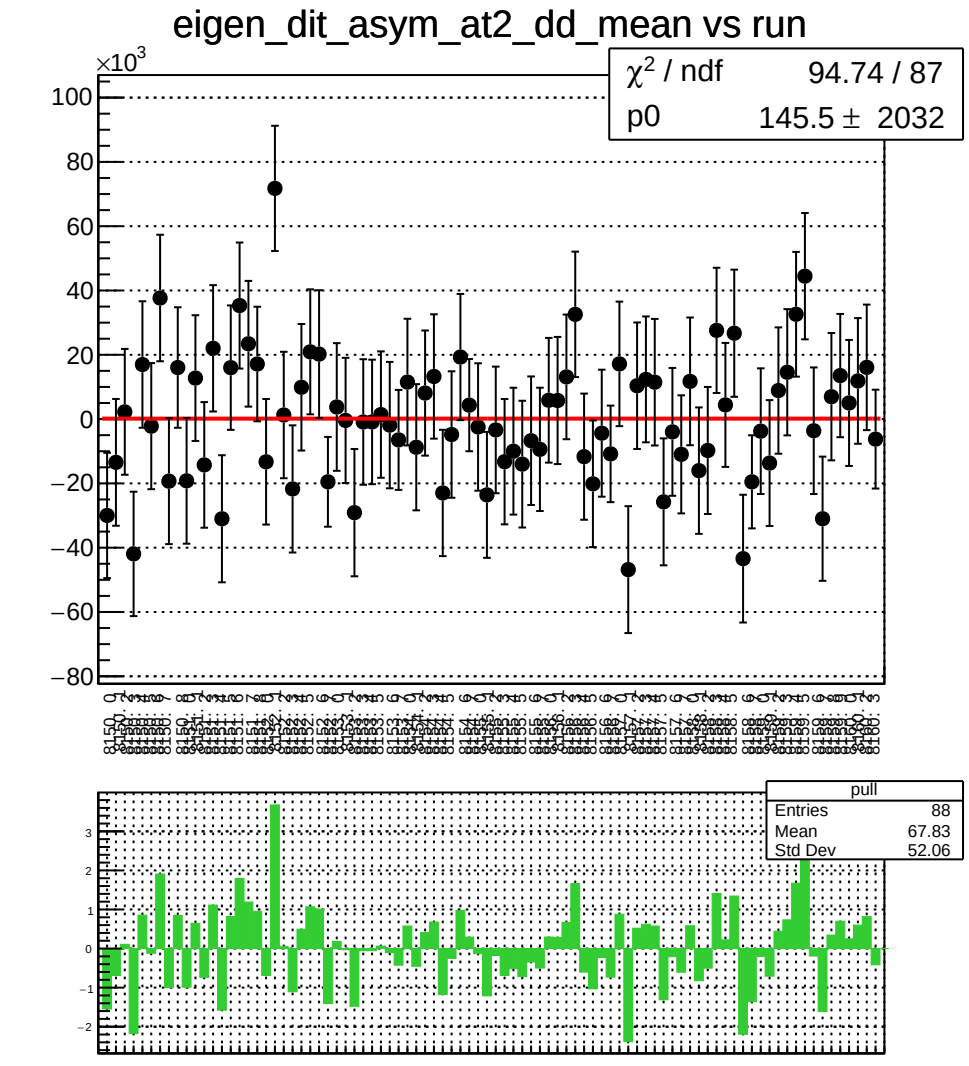

pull1D
Entries 88
Mean 0.01342
Std Dev 1.038

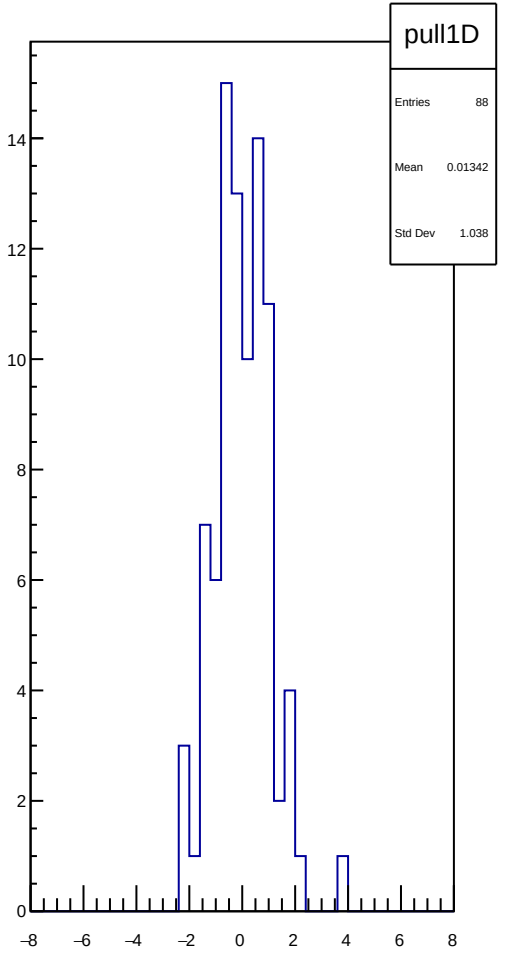

dit_asym_at2_dd_rms vs run
χ^2 / ndf 93.32 / 87
p0 1861 ± 1.437
1920
1900
1880
1860
1840
1820

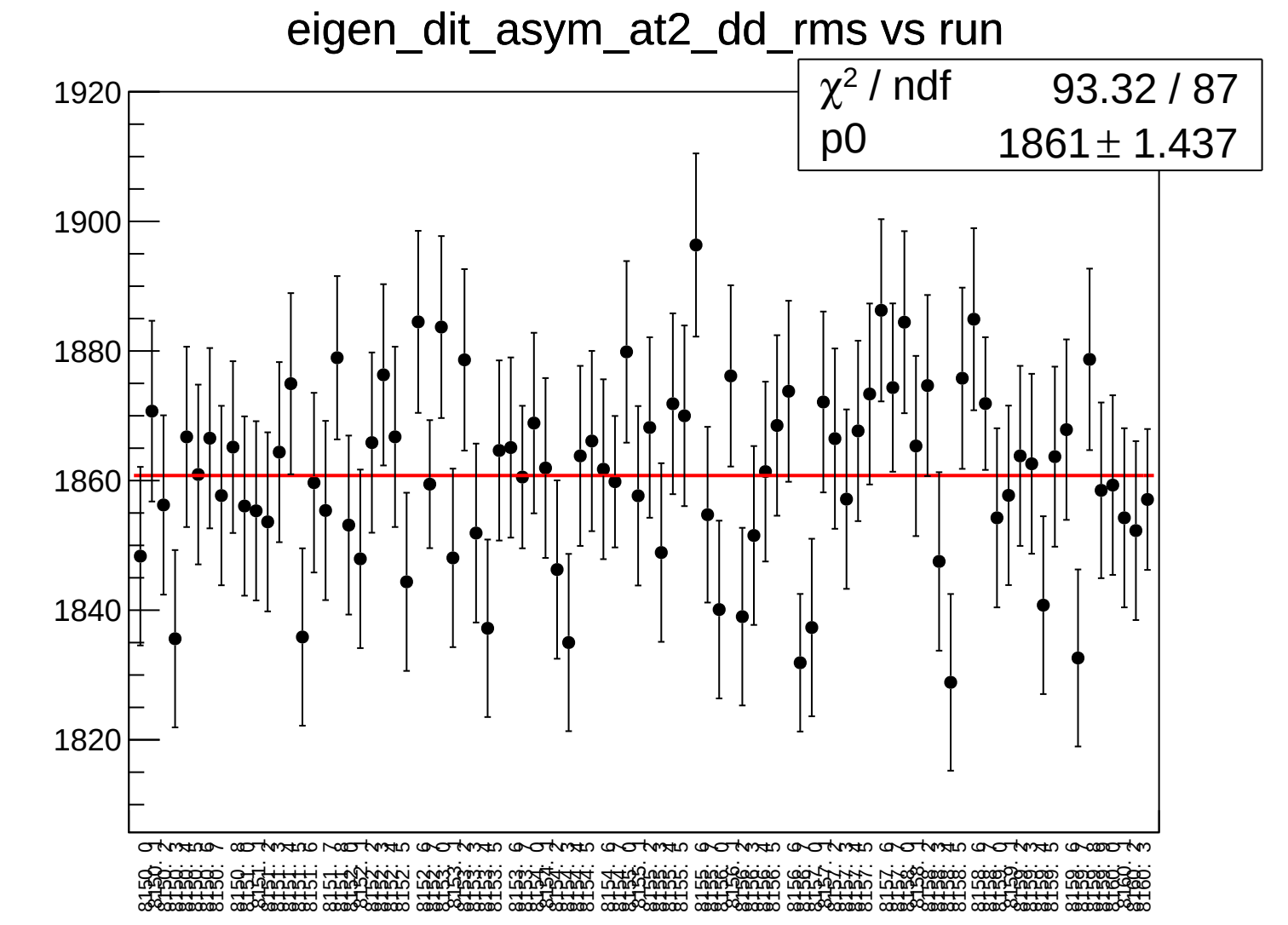

asym_at2_dd_dit_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 104 / 87
p0 484.7 ± 2575
pull
Entries 88
Mean −1818
Std Dev 0
2
1
0
−1
−2

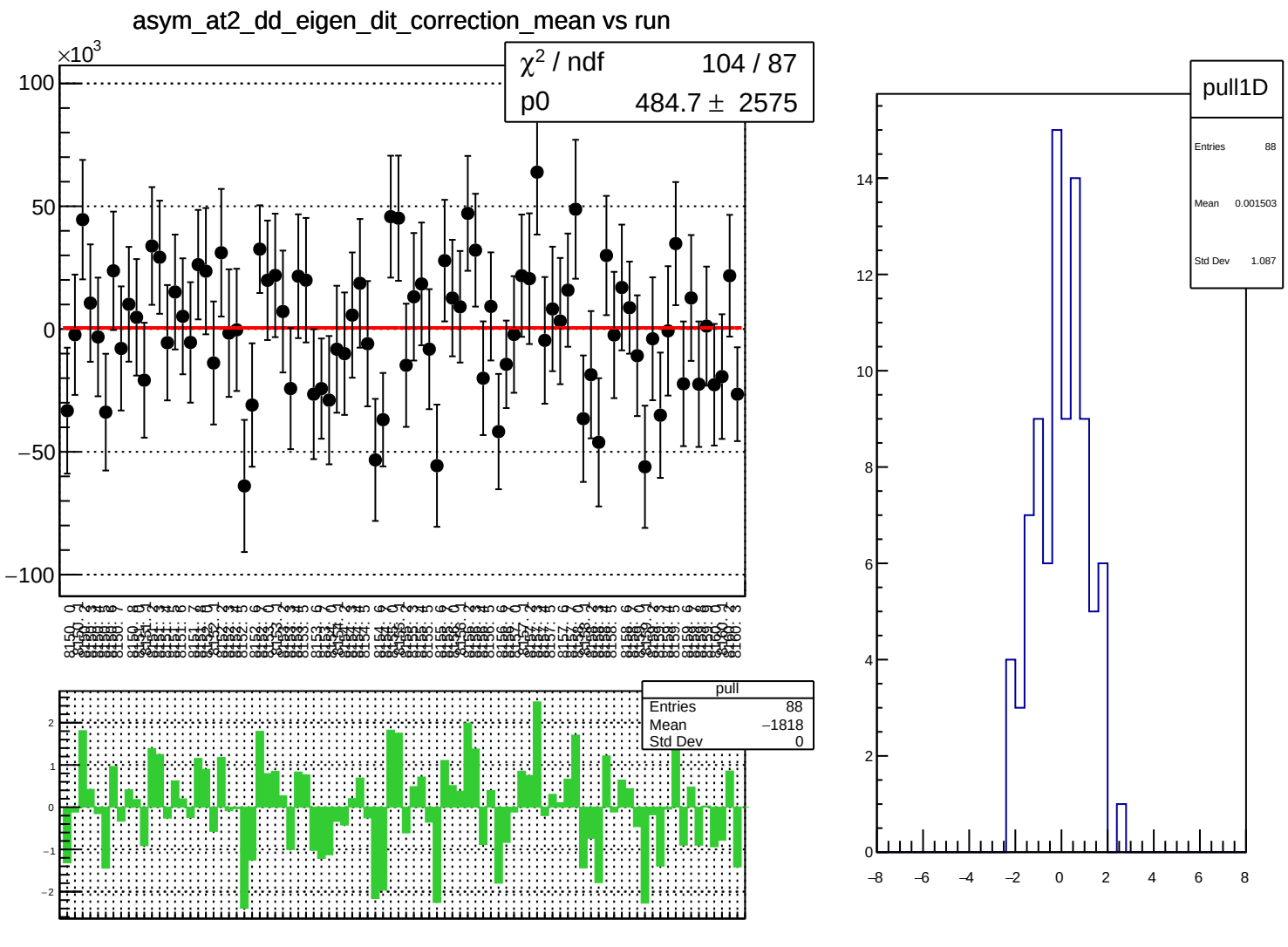

pull1D
Entries 88
Mean 0.001503
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

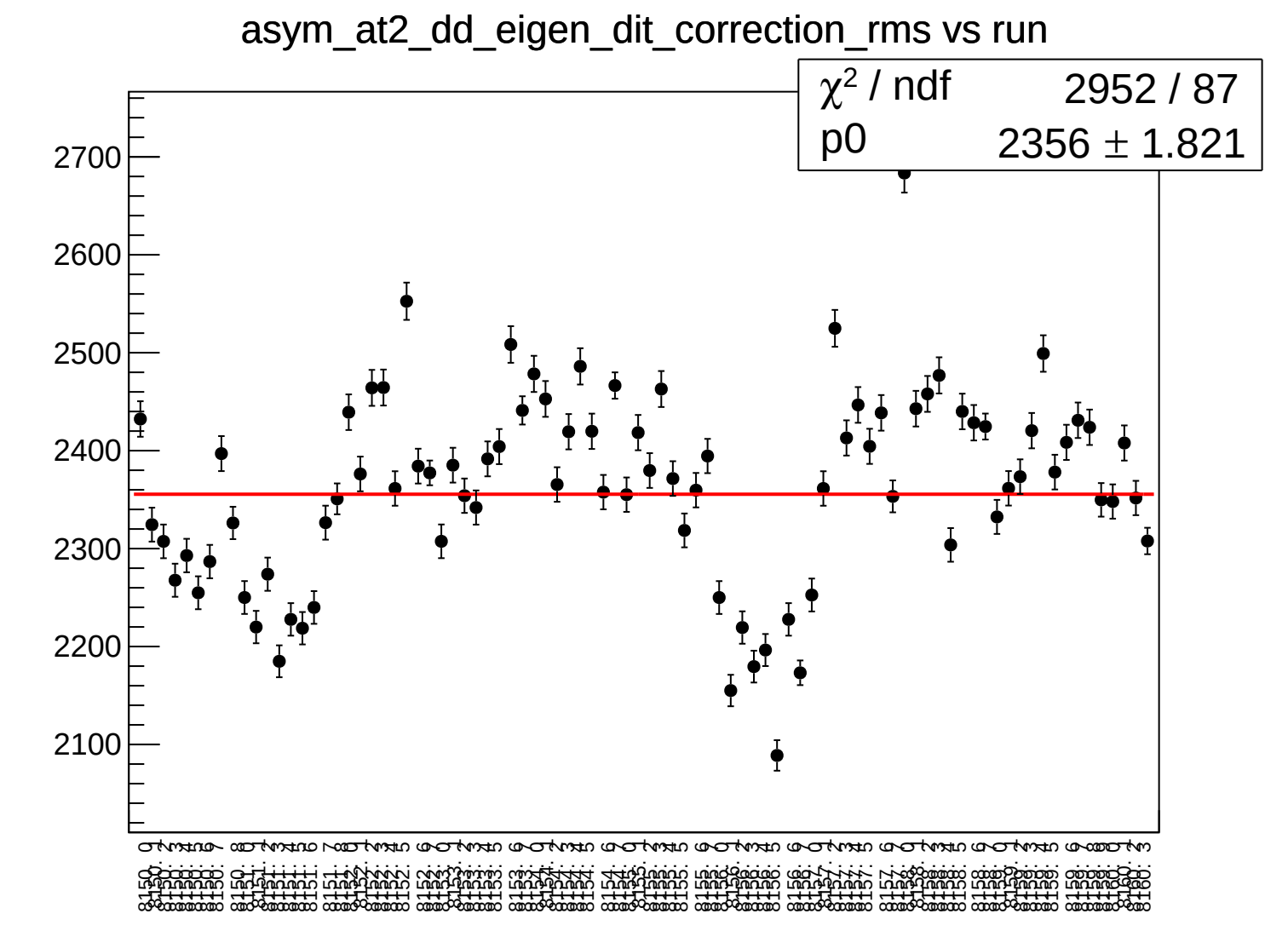

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 2952 / 87
p0 2355 ± 1.821
2700
2600
2500
2400
2300
2200
2100

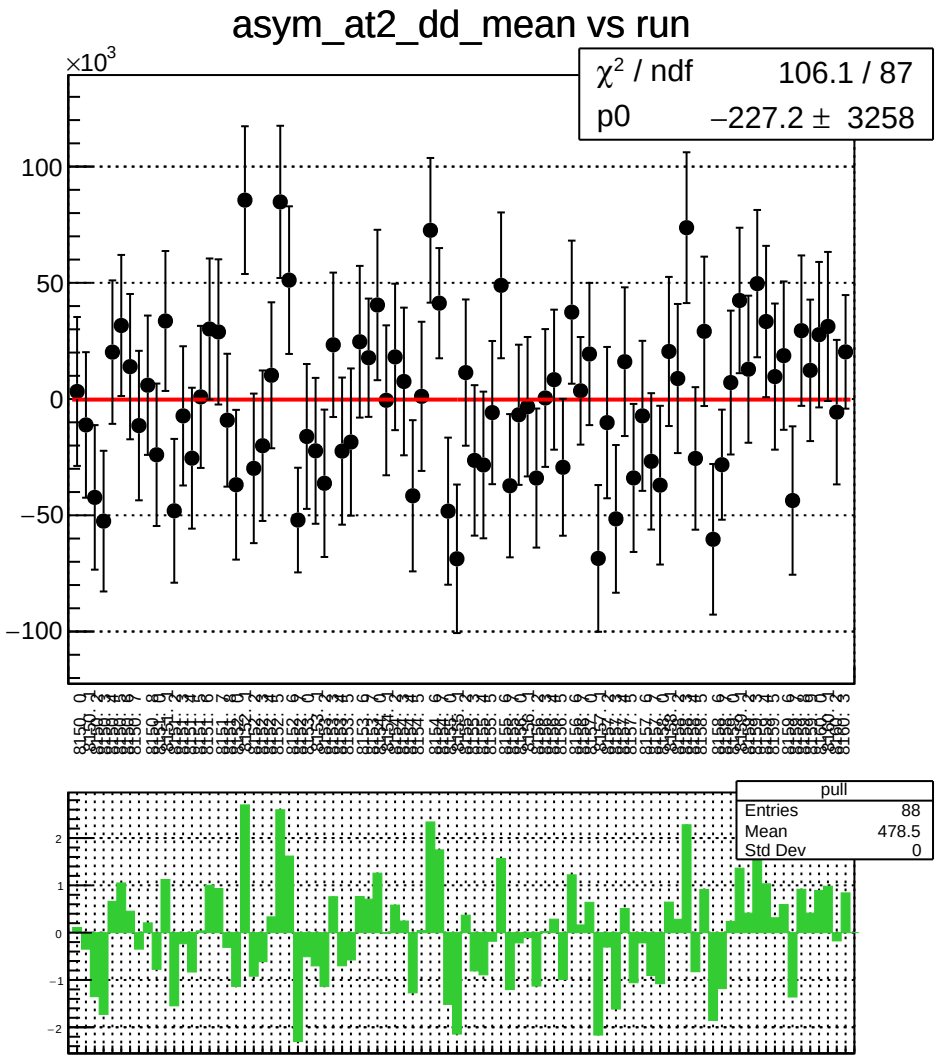

eigen_dit_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 94.74 / 87
p0 145.5 ± 2032
pull
Entries 88
Mean 67.83
Std Dev 52.06

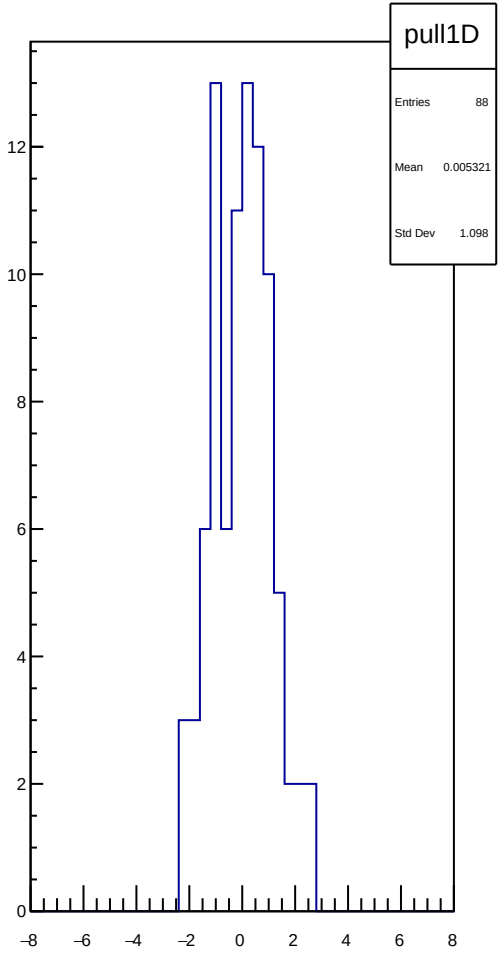

pull1D
Entries 88
Mean 0.01342
Std Dev 1.038

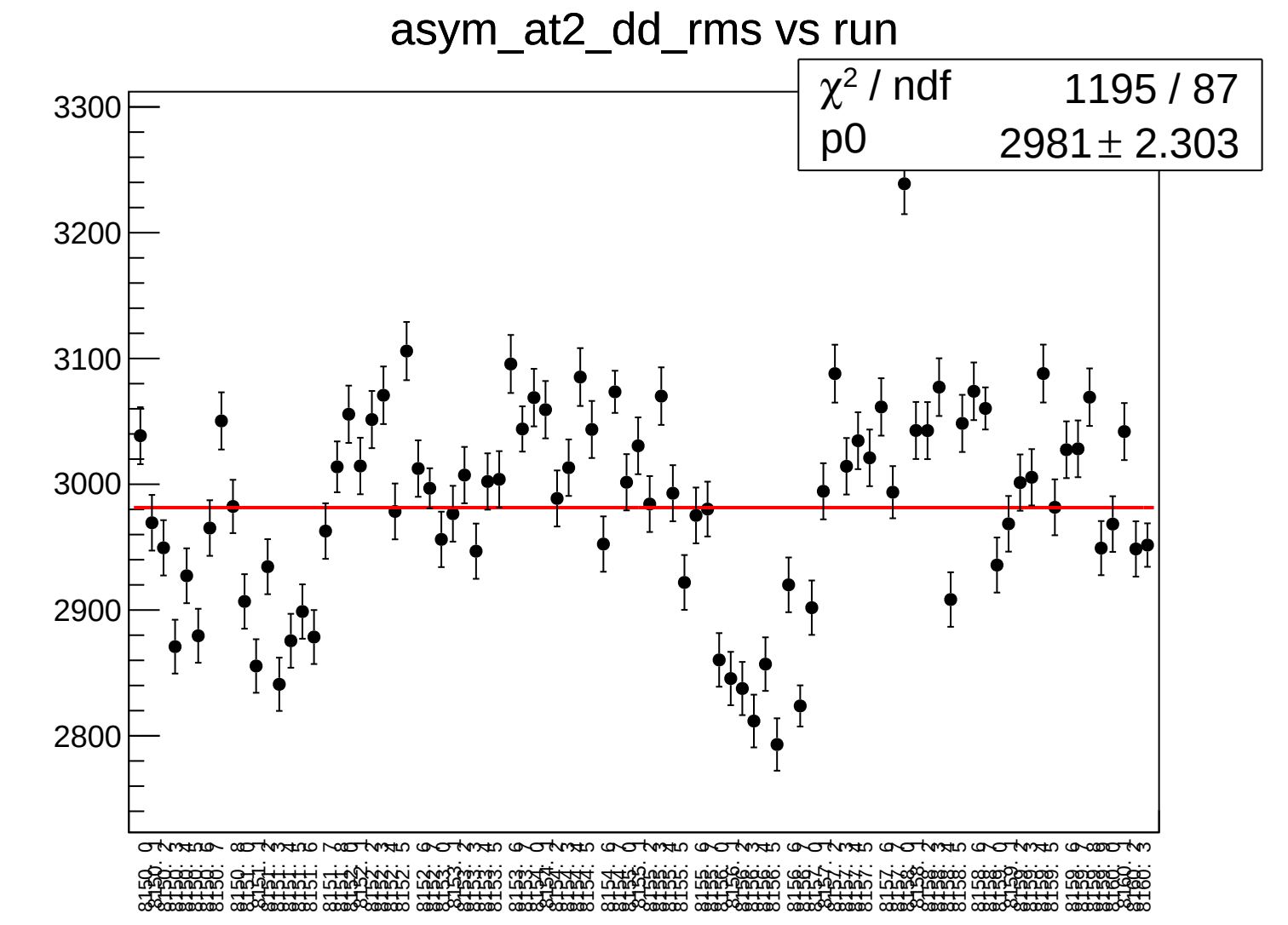

eigen_dit_asym_at2_dd_rms vs run
χ^2 / ndf 93.32 / 87
p0 1861 ± 1.437
1920
1900
1880
1860
1840
1820

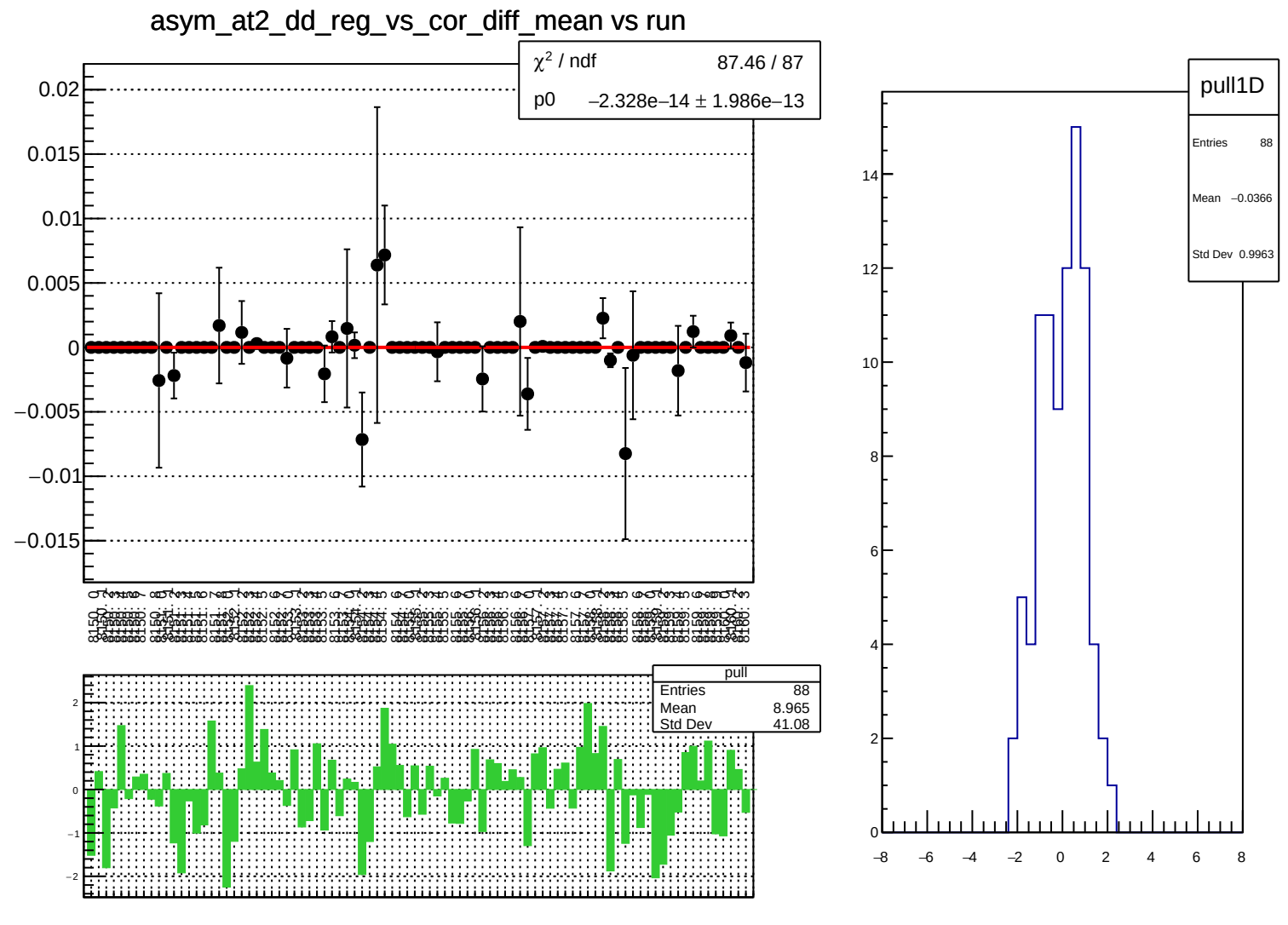

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 104 / 87
p0 484.7 ± 2575
100
50
0
−50
−100
pull
Entries 88
Mean −1818
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001503
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

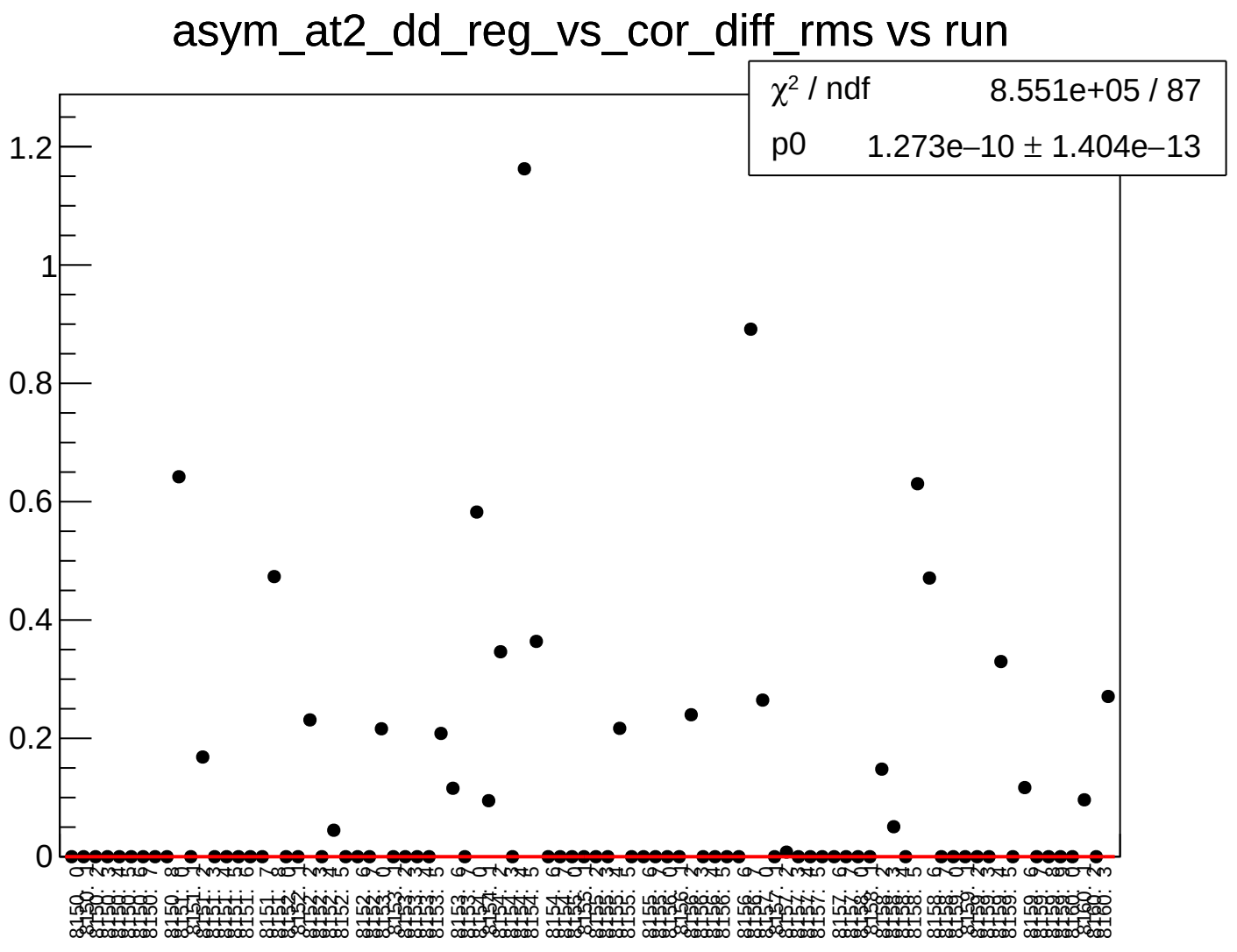

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2952 / 87
p0 2356 ± 1.821
2700
2600
2500
2400
2300
2200
2100

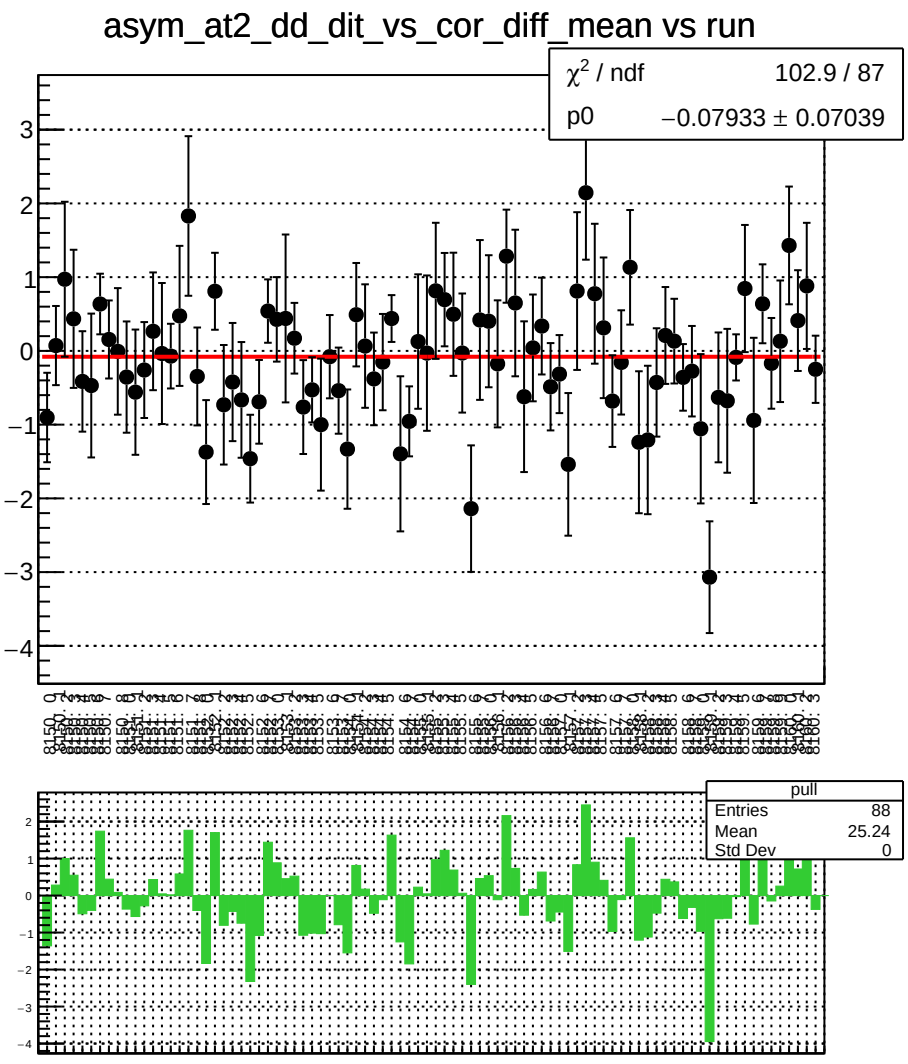

asym_at2_dd_mean vs run
×10^3
χ² / ndf 106.1 / 87
p0 −227.2 ± 3258
100
50
0
−50
−100
pull
Entries 88
Mean 478.5
Std Dev 0
2
1
0
−1
−2

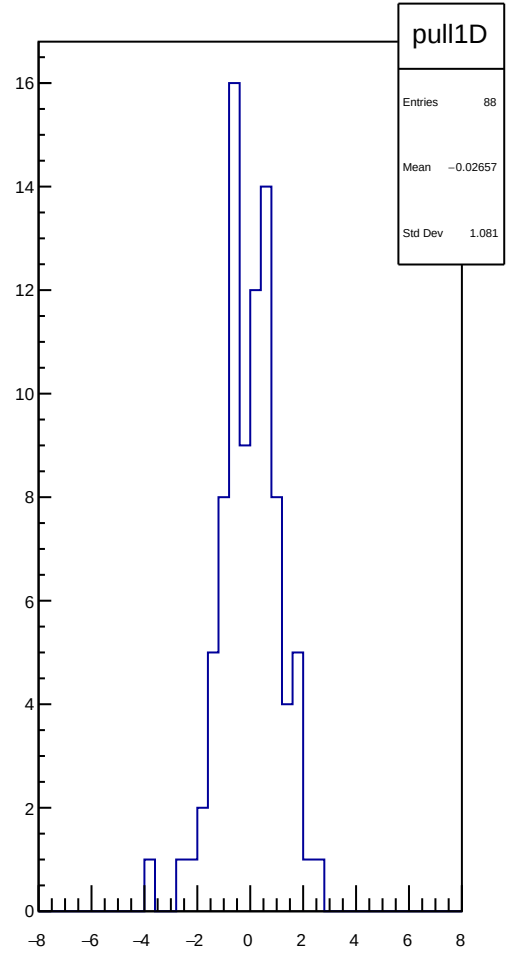

pull1D
Entries 88
Mean 0.005321
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

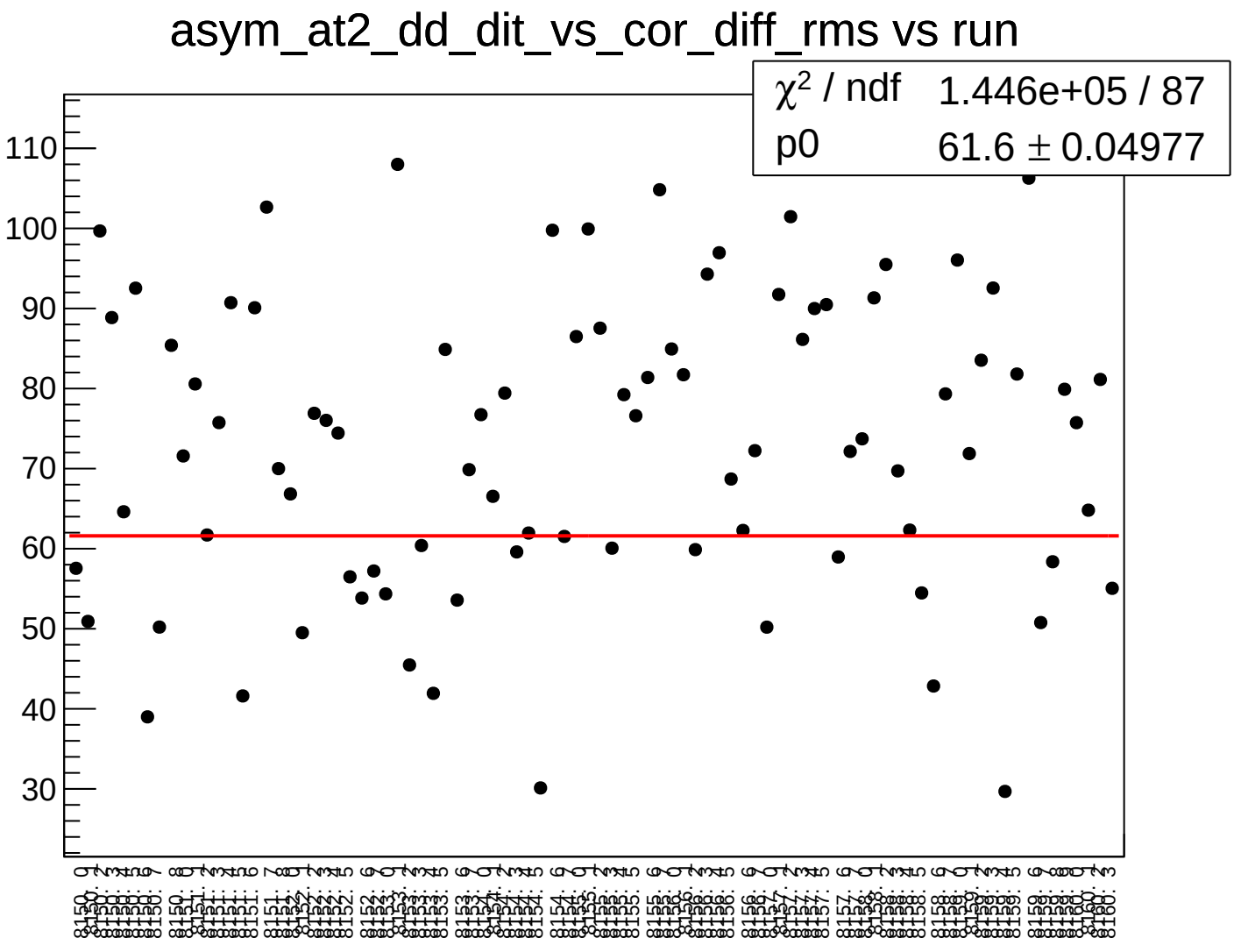

asym_at2_dd_rms vs run
χ² / ndf 1195 / 87
p0 2981 ± 2.303
3300
3200
3100
3000
2900
2800

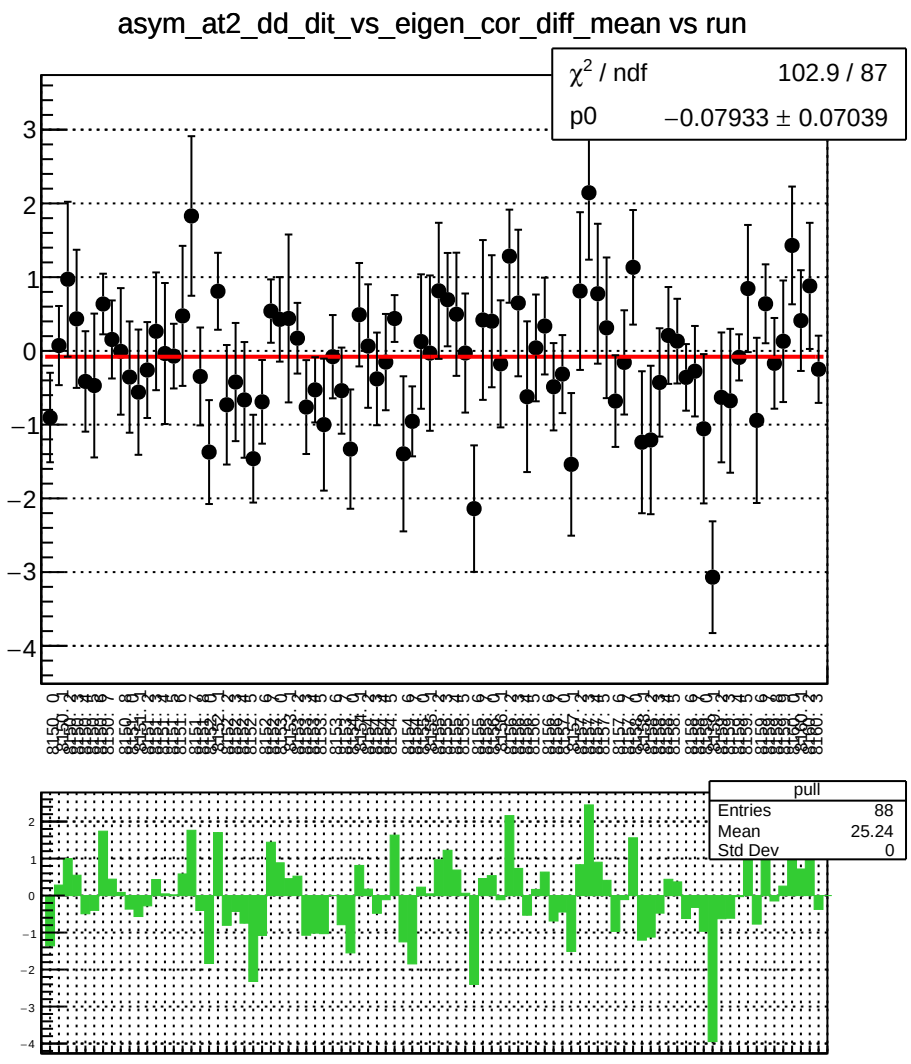

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.46 / 87
p0 −2.328e−14 ± 1.986e−13
pull
Entries 88
Mean 8.965
Std Dev 41.08
pull1D
Entries 88
Mean −0.0366
Std Dev 0.9963

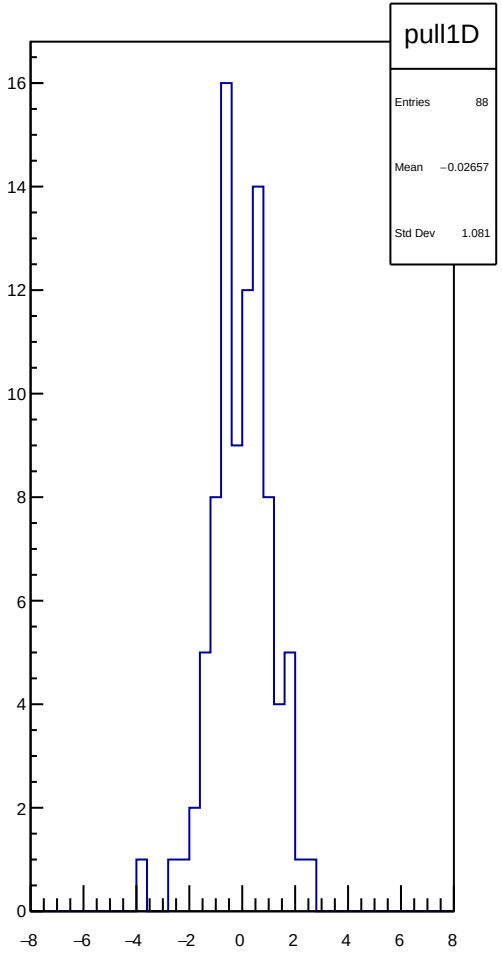

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.551e+05 / 87
p0 1.273e−10 ± 1.404e−13
1.2
1
0.8
0.6
0.4
0.2
0

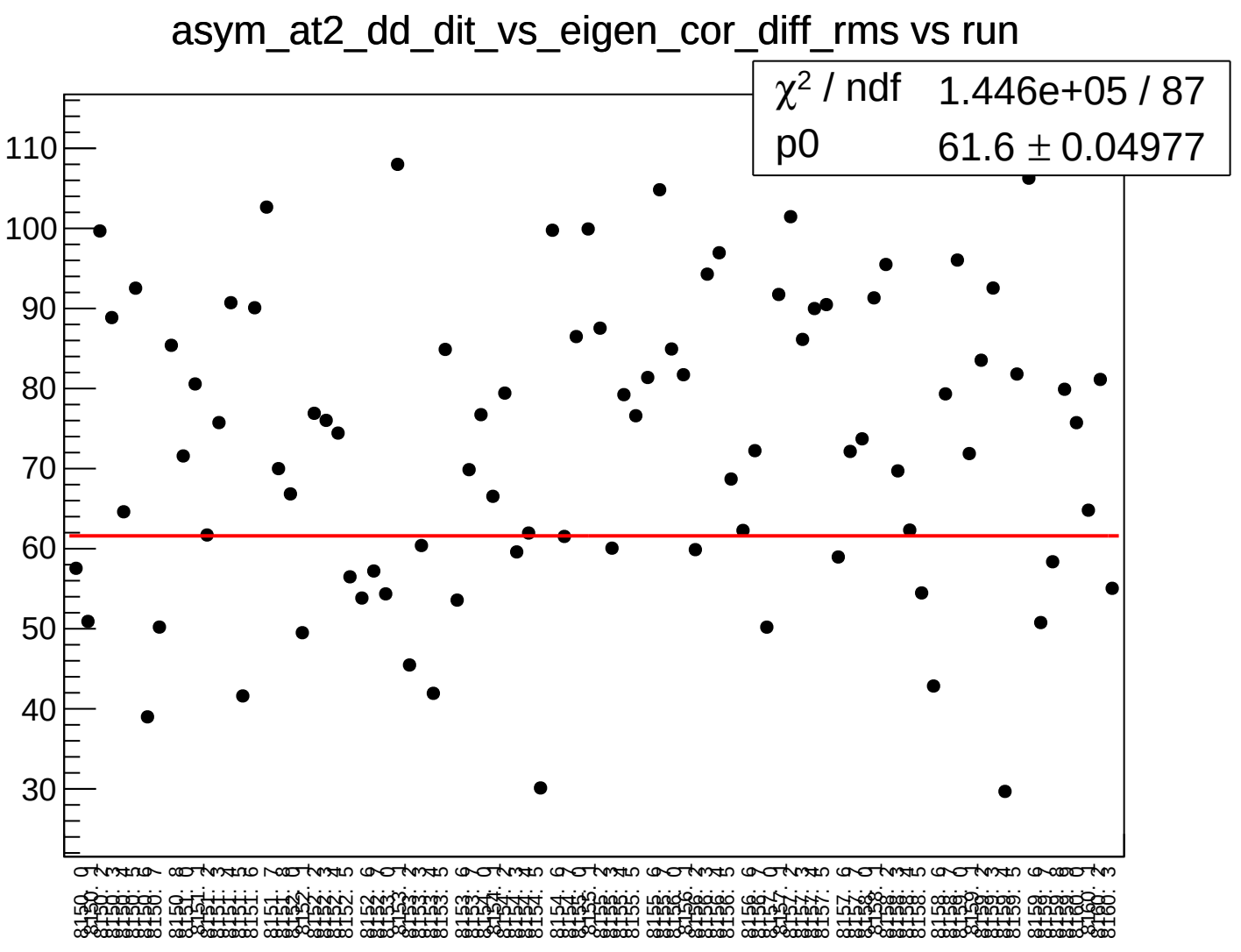

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.9 / 87
p0 −0.07933 ± 0.07039
pull
Entries 88
Mean 25.24
Std Dev 0

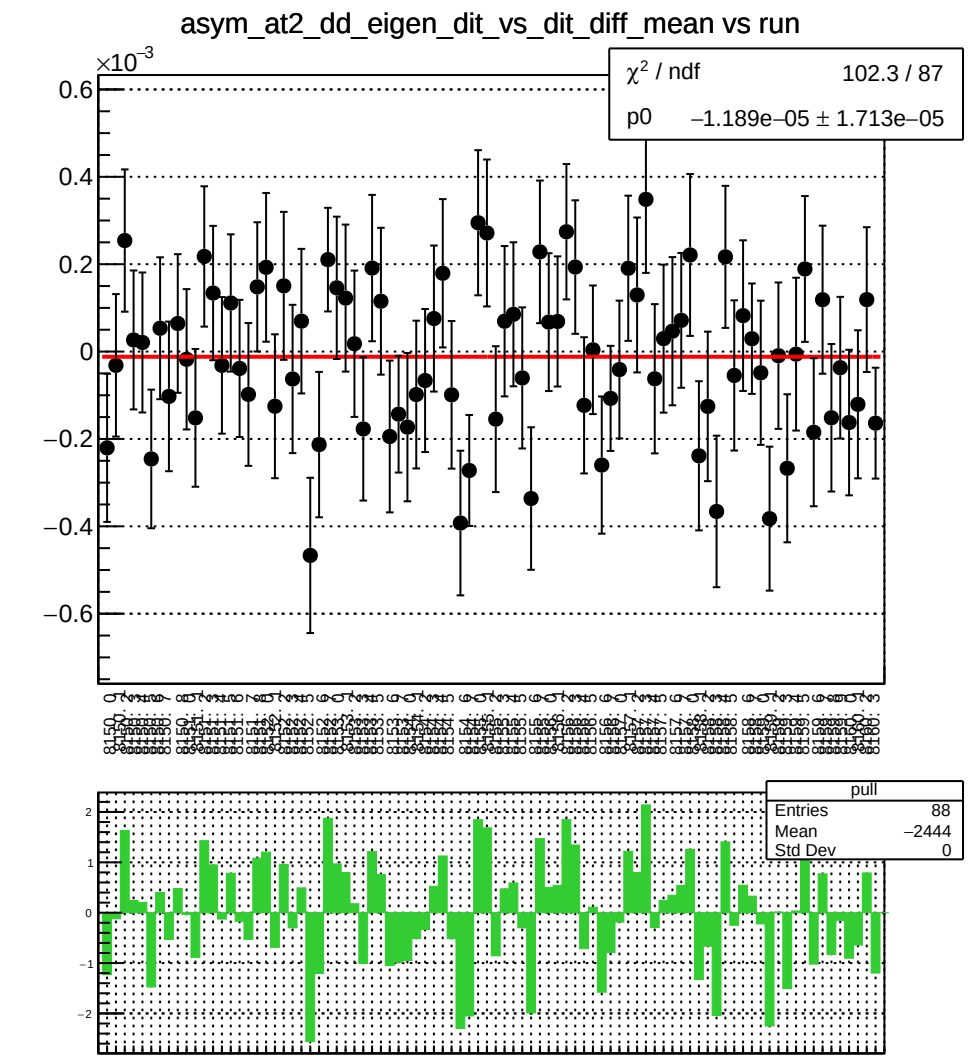

pull1D
Entries 88
Mean −0.02657
Std Dev 1.081

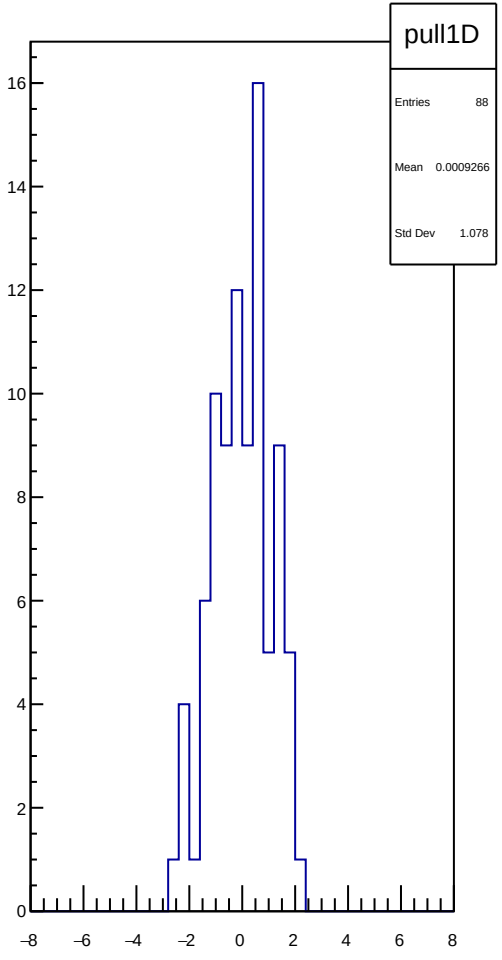

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.446e+05 / 87
p0 61.6 ± 0.04977
110
100
90
80
70
60
50
40
30

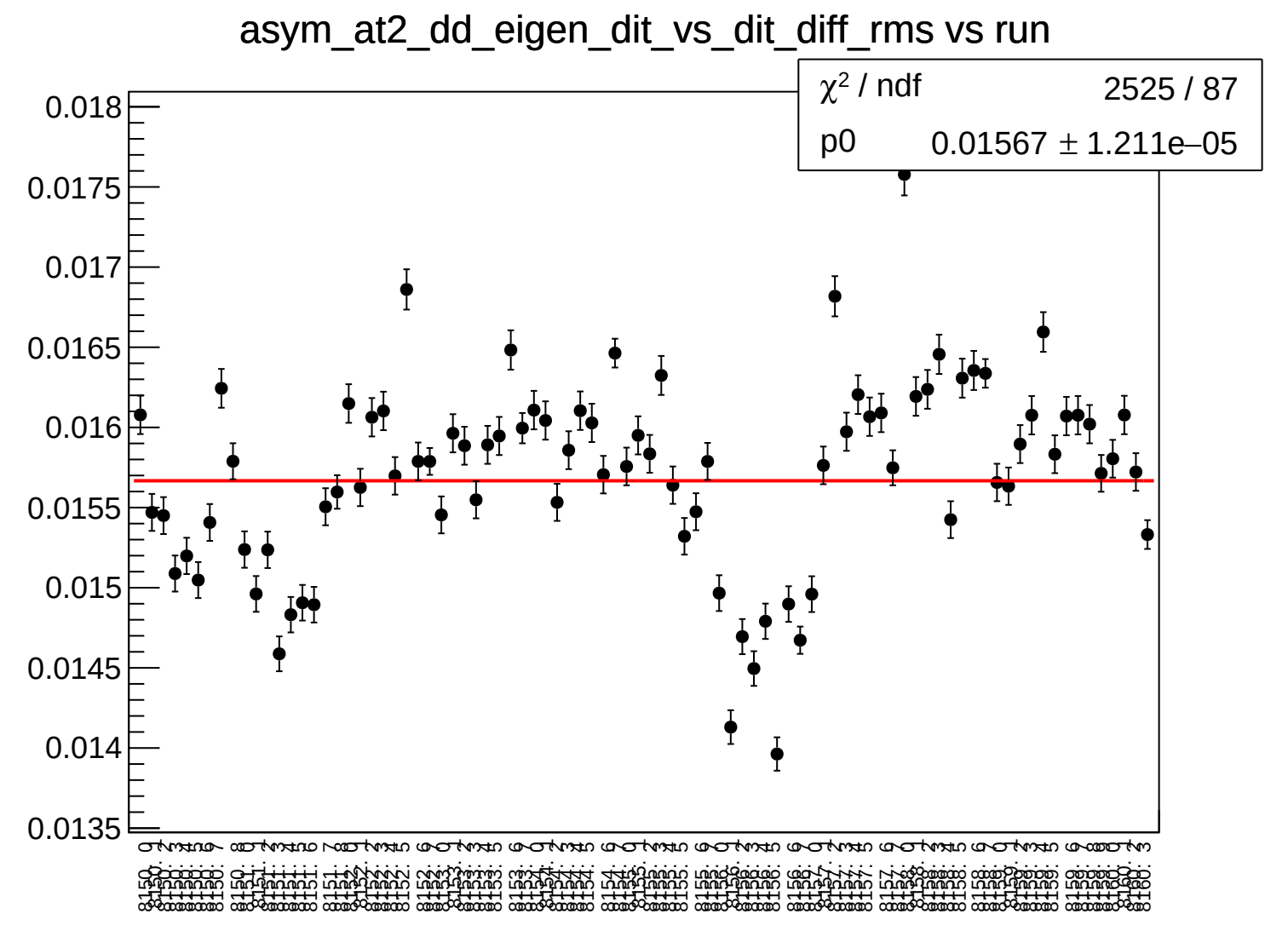

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.9 / 87
p0 −0.07933 ± 0.07039
pull
Entries 88
Mean 25.24
Std Dev 0

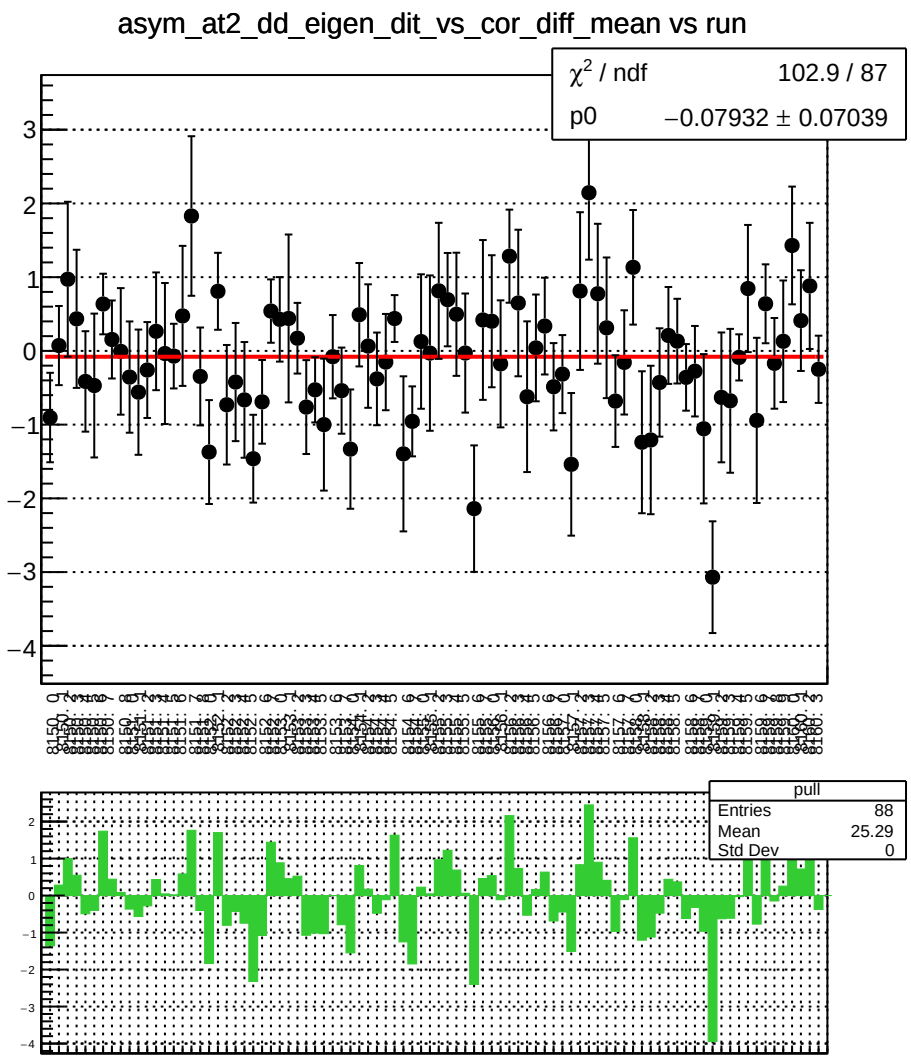

pull1D
Entries 88
Mean −0.02657
Std Dev 1.081

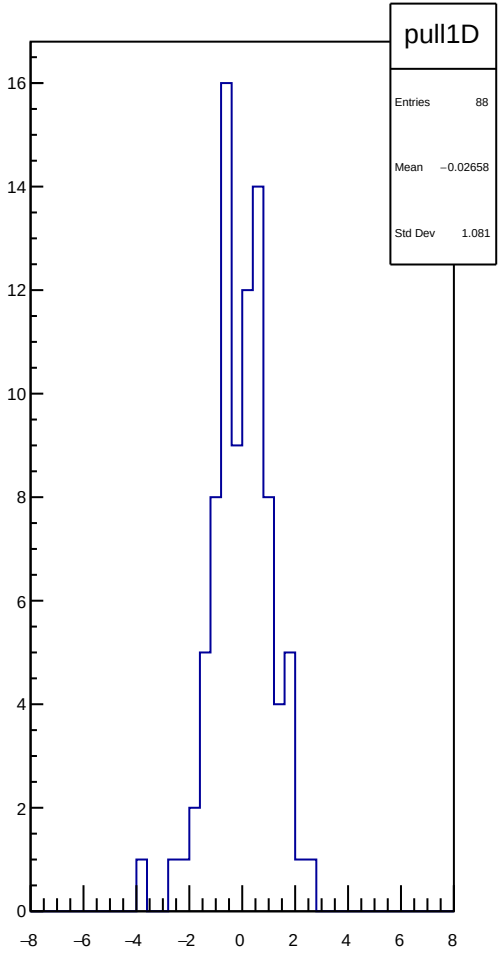

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.446e+05 / 87
p0 61.6 ± 0.04977
110
100
90
80
70
60
50
40
30

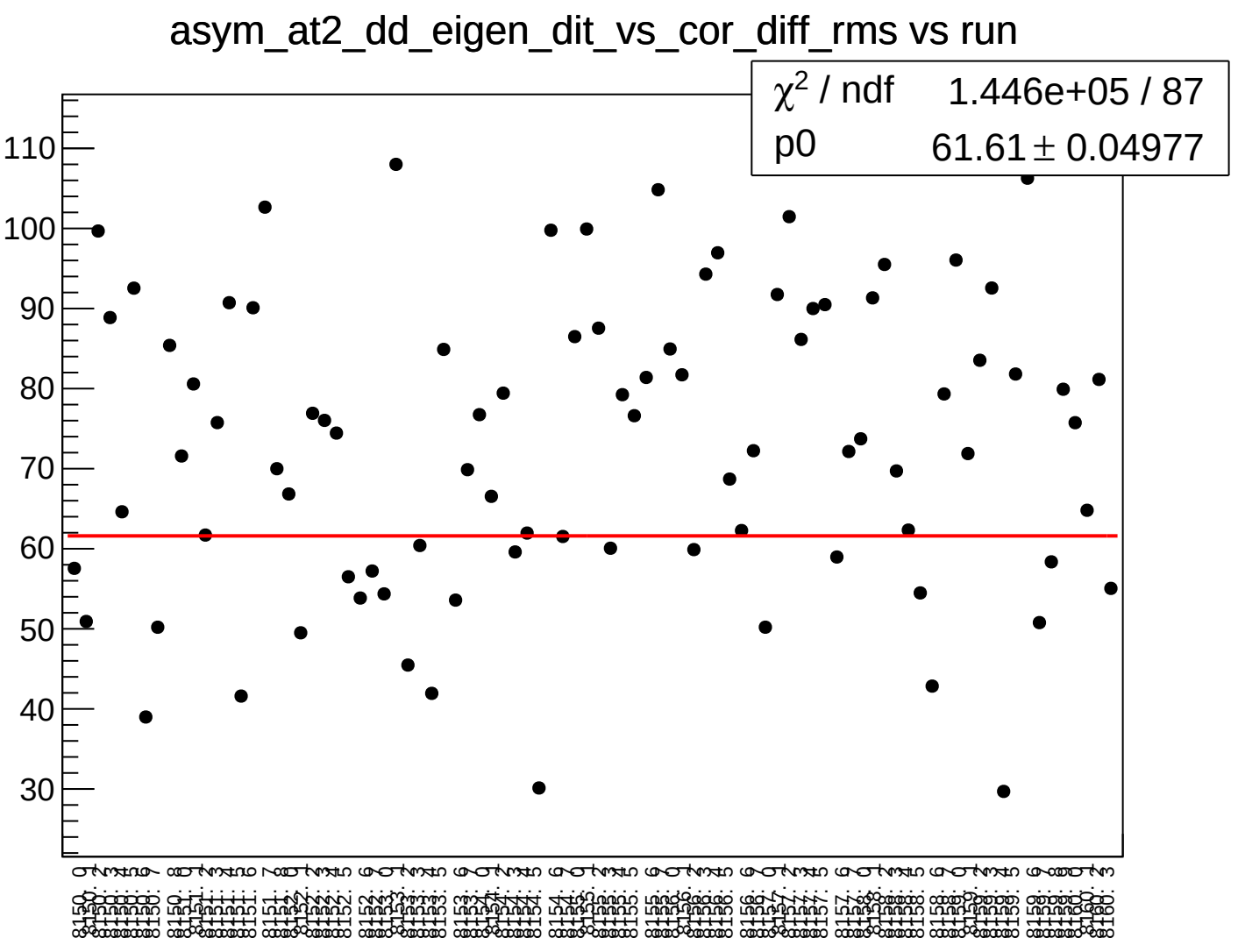

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.3 / 87
p0 −1.189e−05 ± 1.713e−05
pull
Entries 88
Mean −2444
Std Dev 0

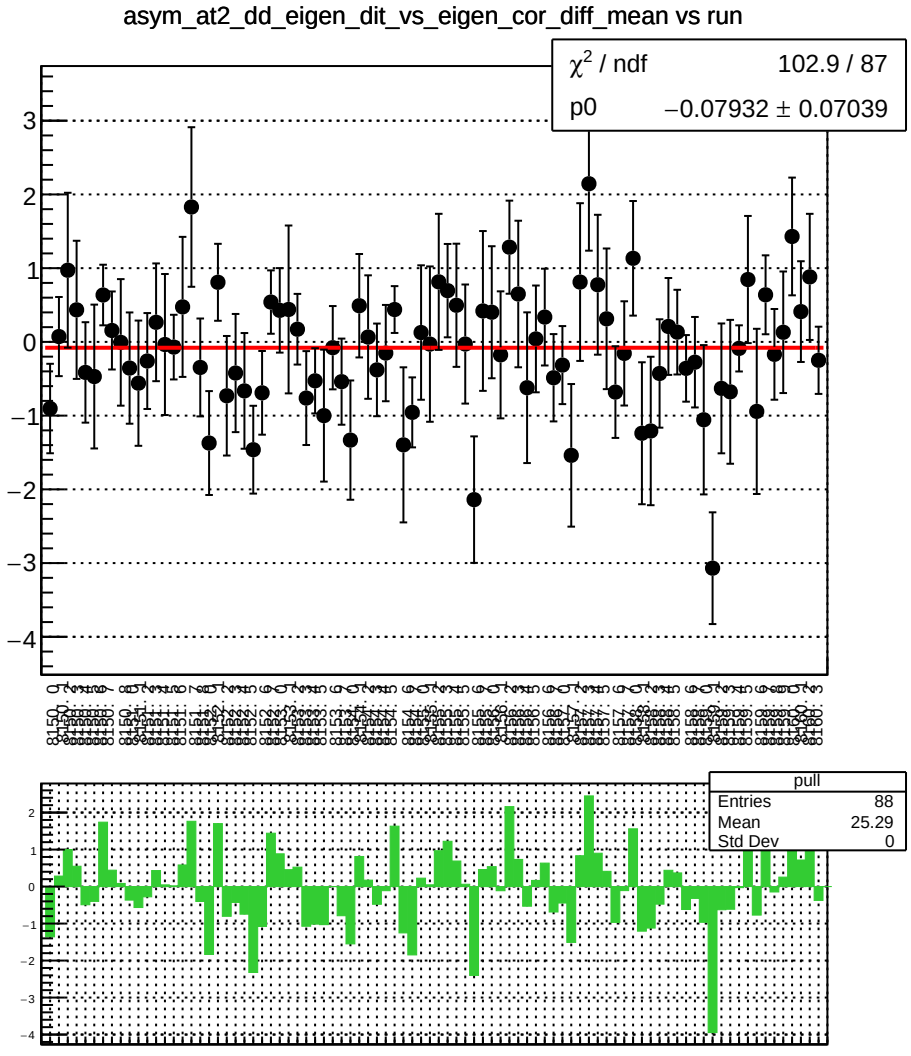

pull1D
Entries 88
Mean 0.0009266
Std Dev 1.078

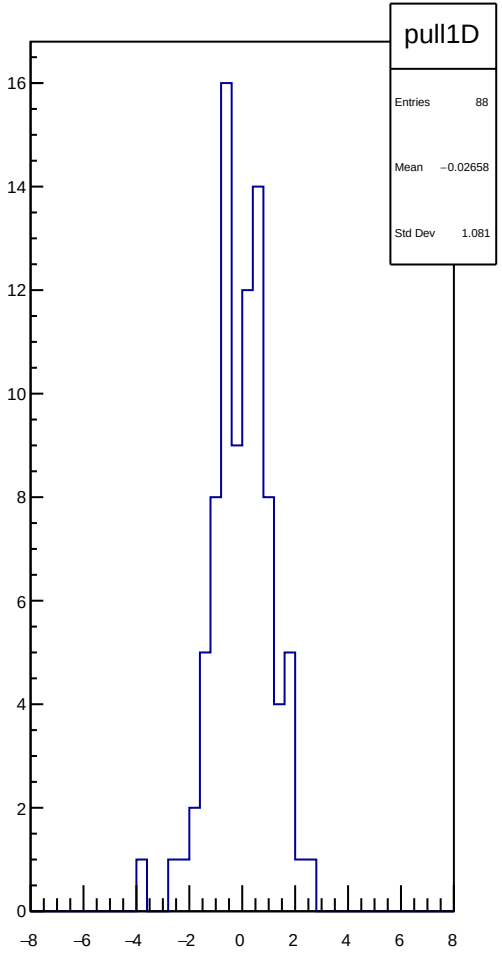

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2525 / 87
p0 0.01567 ± 1.211e−05
0.018
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135

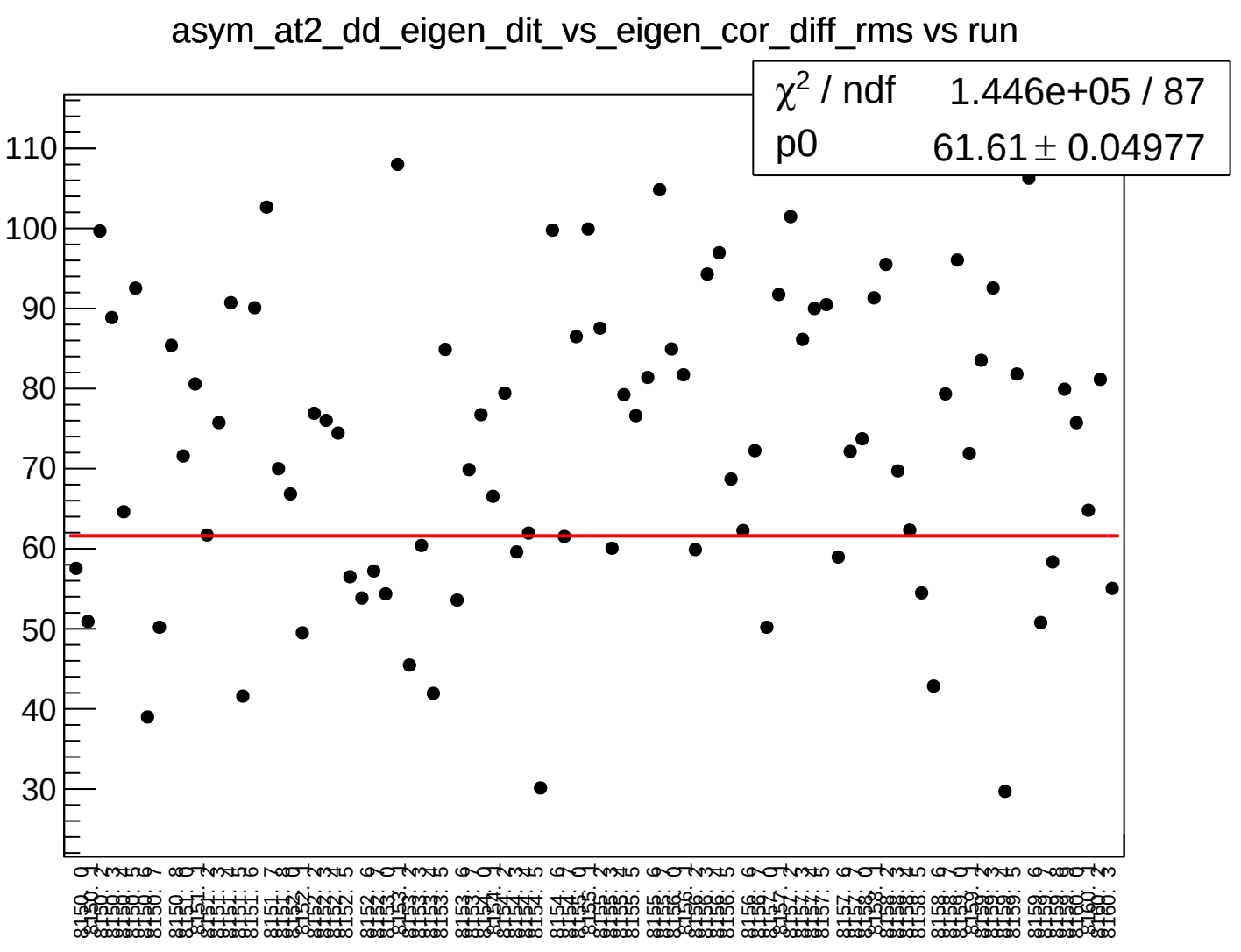

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.9 / 87
p0 −0.07932 ± 0.07039
pull
Entries 88
Mean 25.29
Std Dev 0

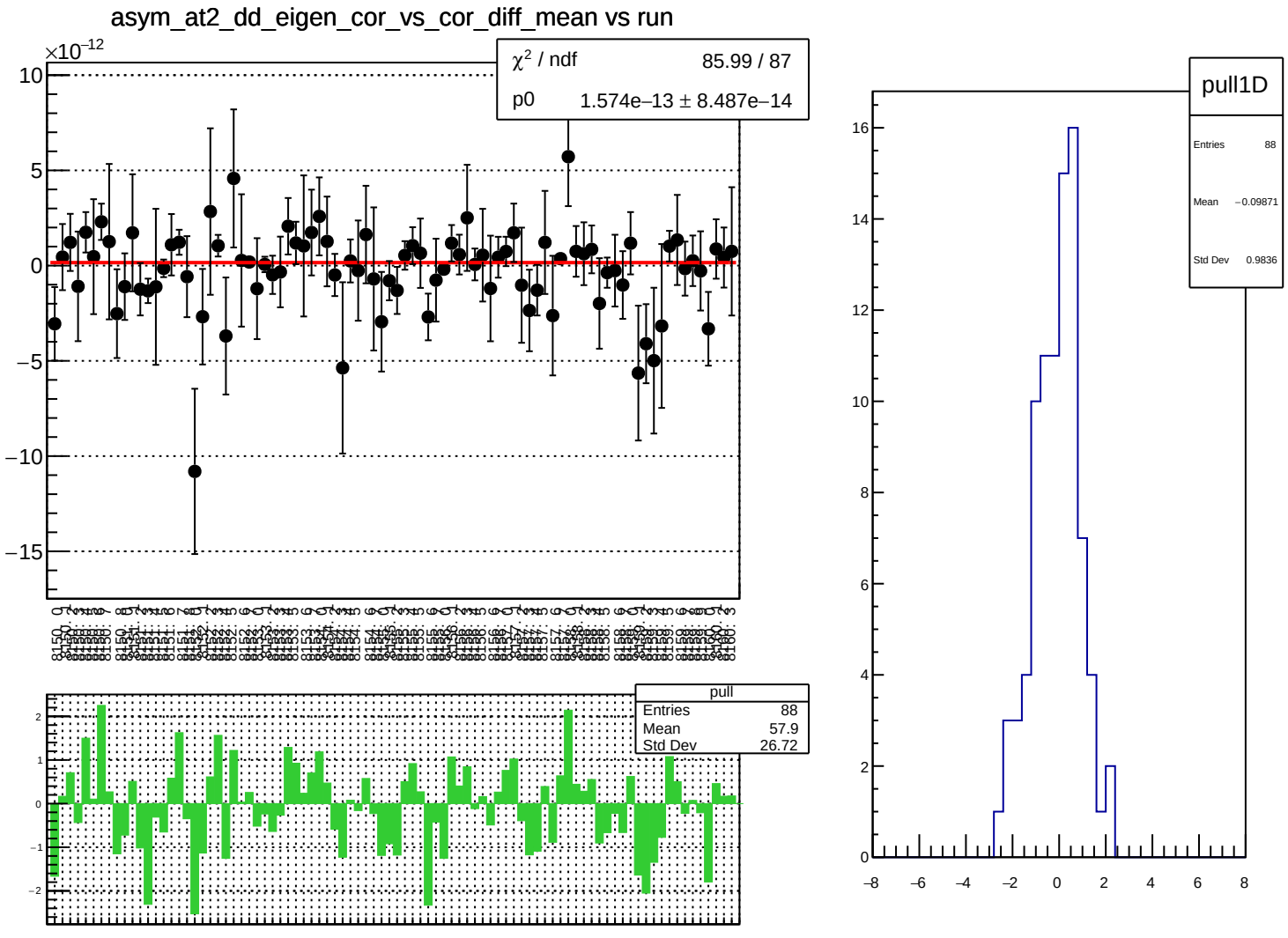

pull1D
Entries 88
Mean −0.02658
Std Dev 1.081

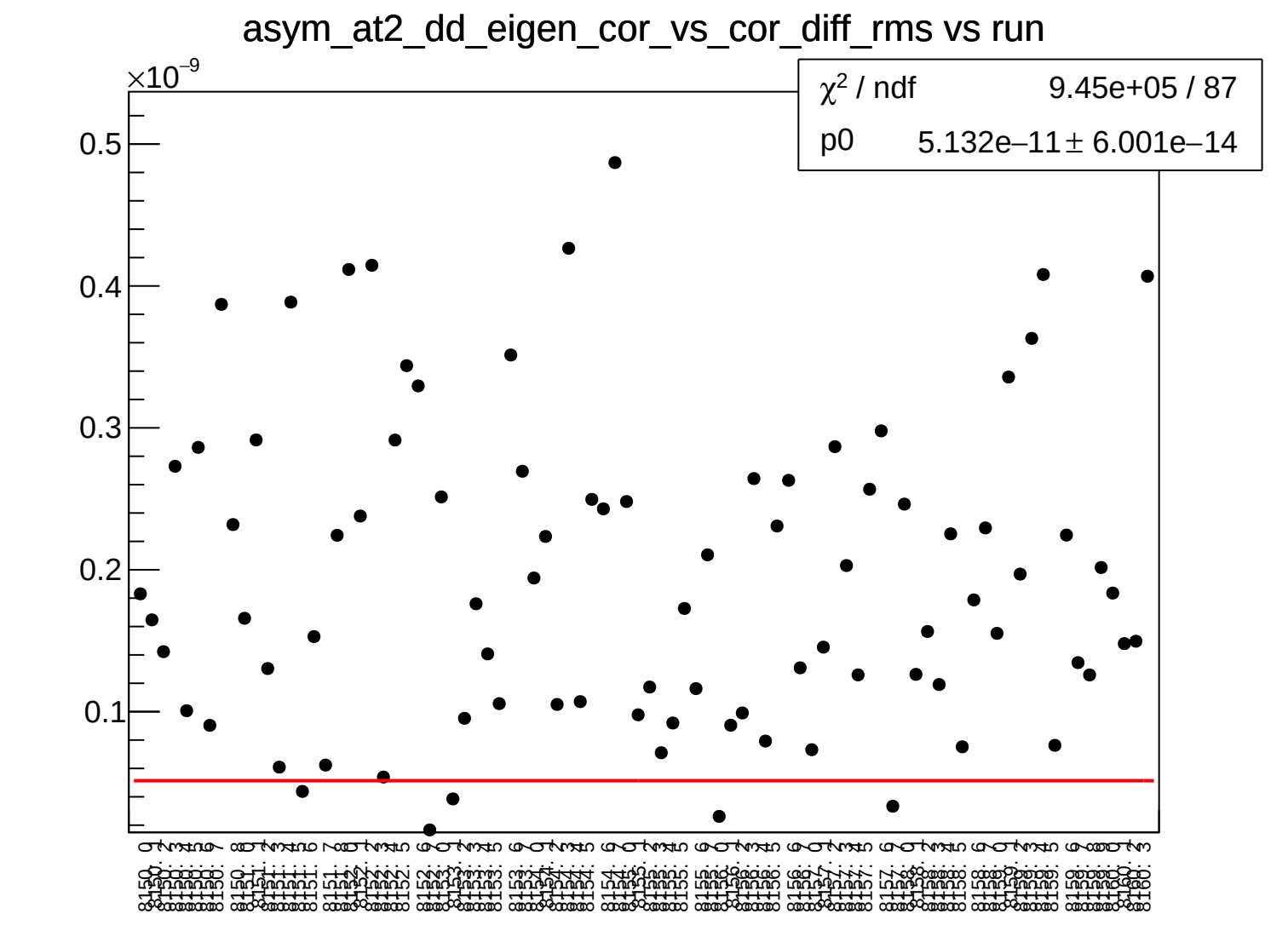

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.446e+05 / 87
p0 61.61 ± 0.04977
110
100
90
80
70
60
50
40
30

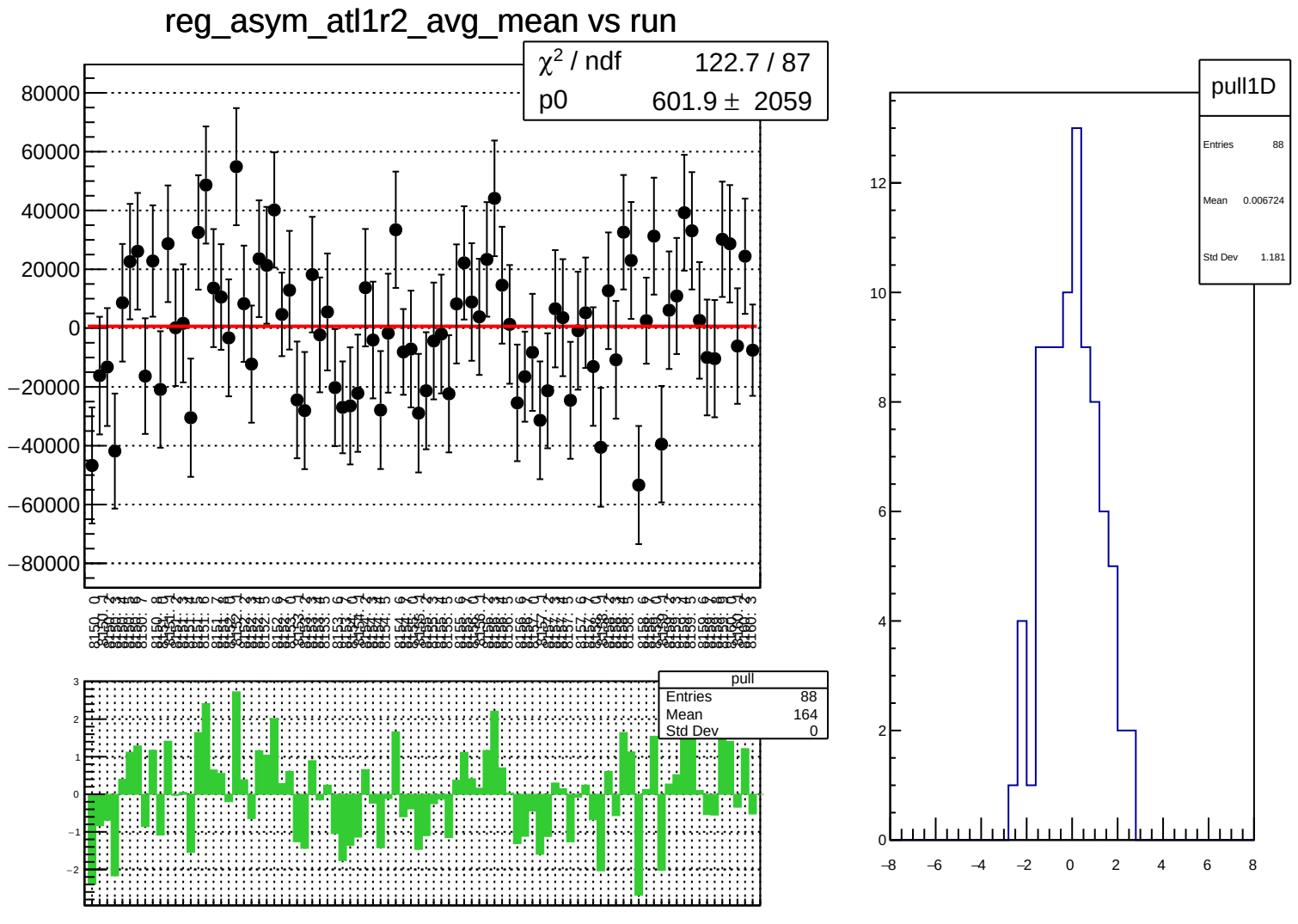

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.9 / 87
p0 −0.07932 ± 0.07039
pull
Entries 88
Mean 25.29
Std Dev 0

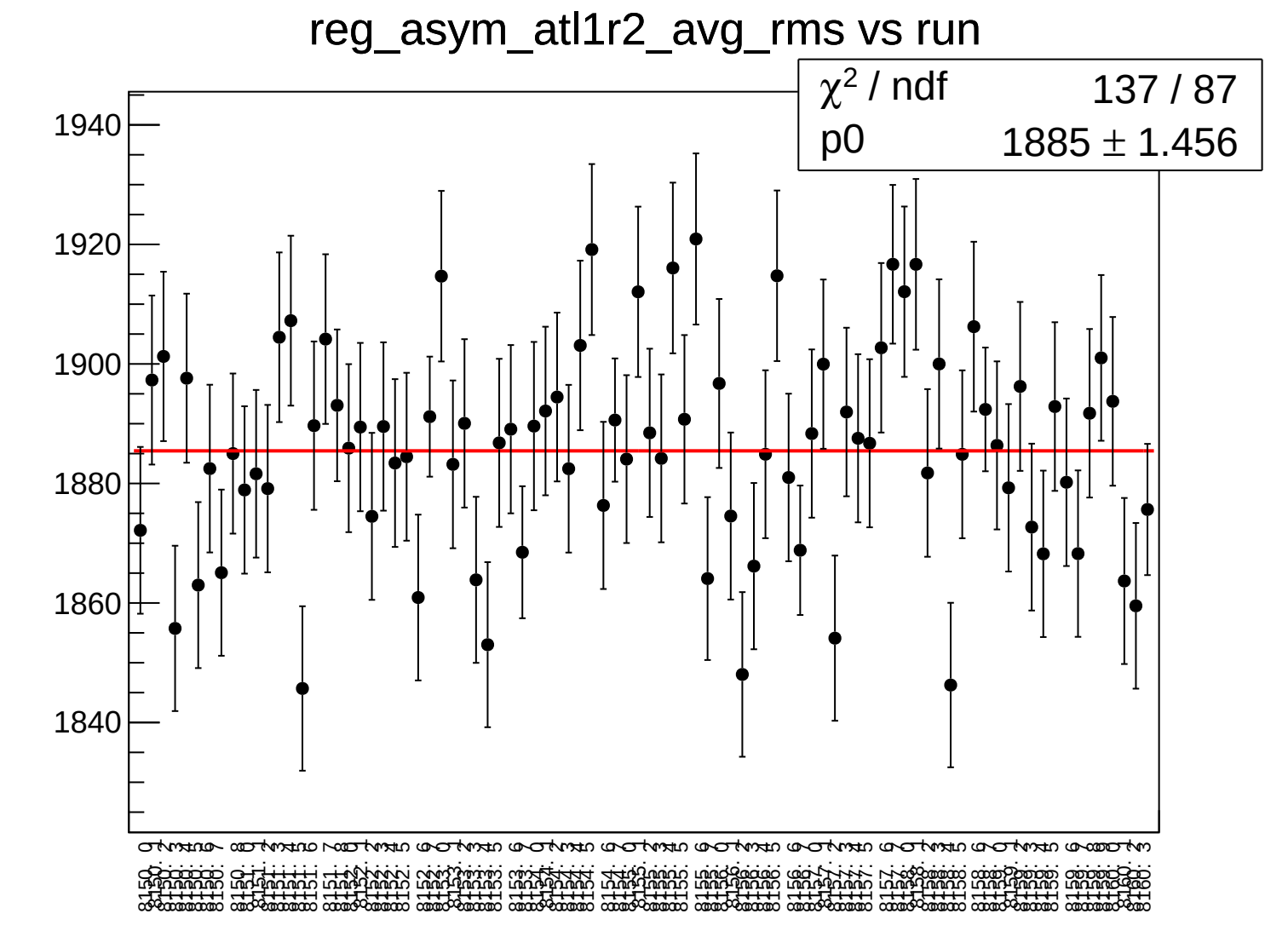

pull1D
Entries 88
Mean −0.02658
Std Dev 1.081

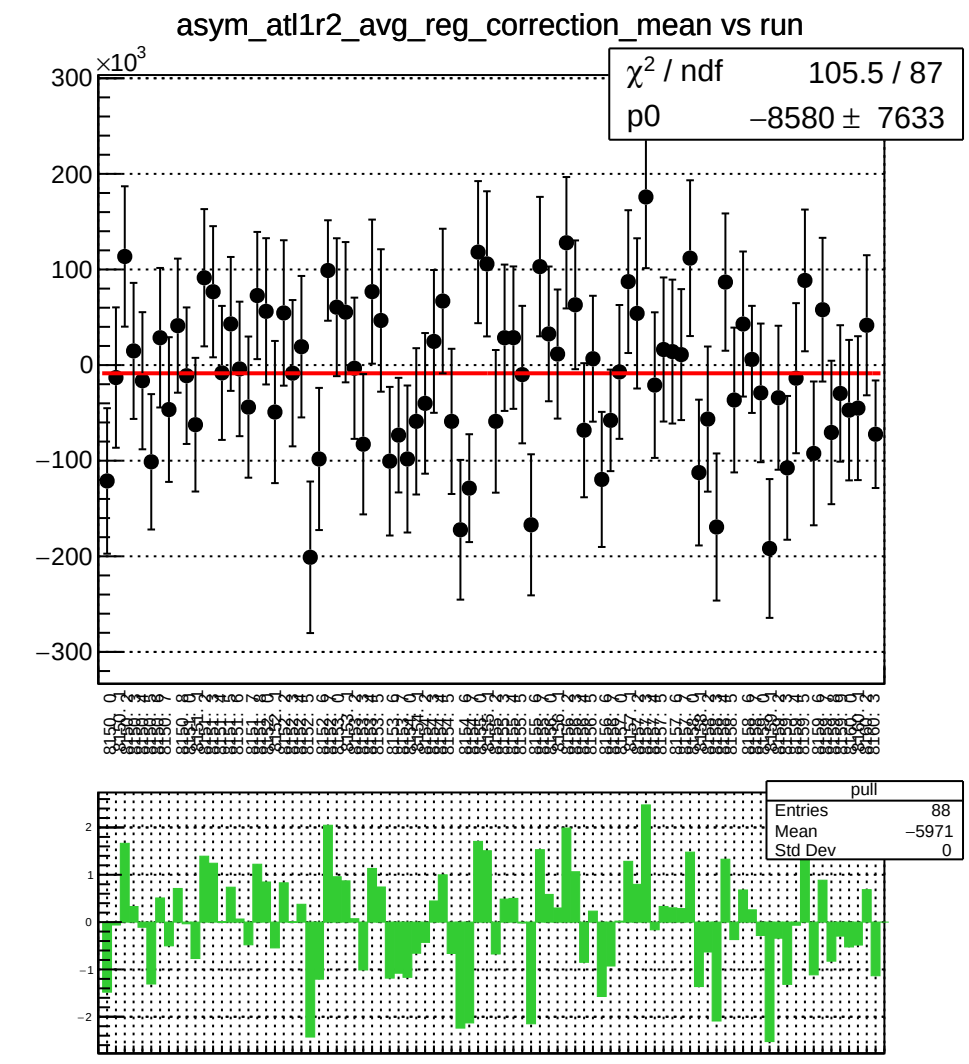

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.446e+05 / 87
p0 61.61 ± 0.04977
110
100
90
80
70
60
50
40
30

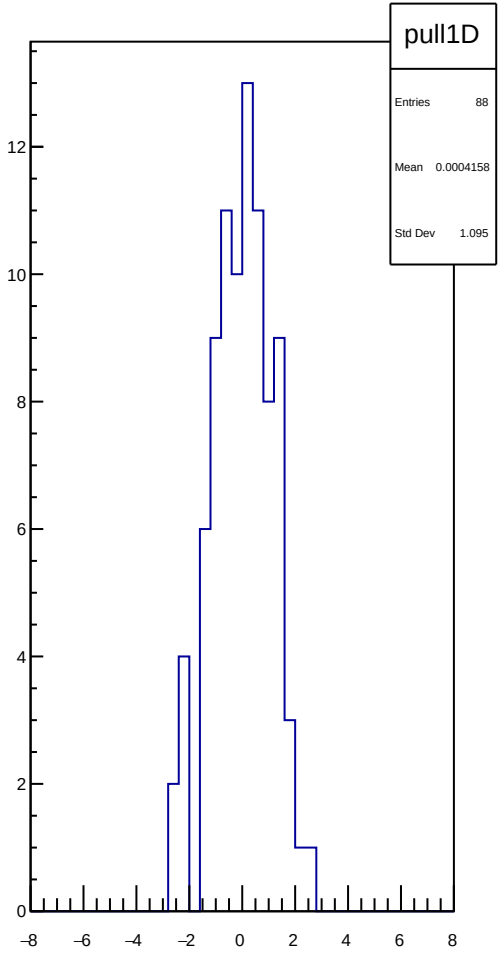

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.99 / 87
p0 1.574e−13 ± 8.487e−14
pull
Entries 88
Mean 57.9
Std Dev 26.72
pull1D
Entries 88
Mean −0.09871
Std Dev 0.9836

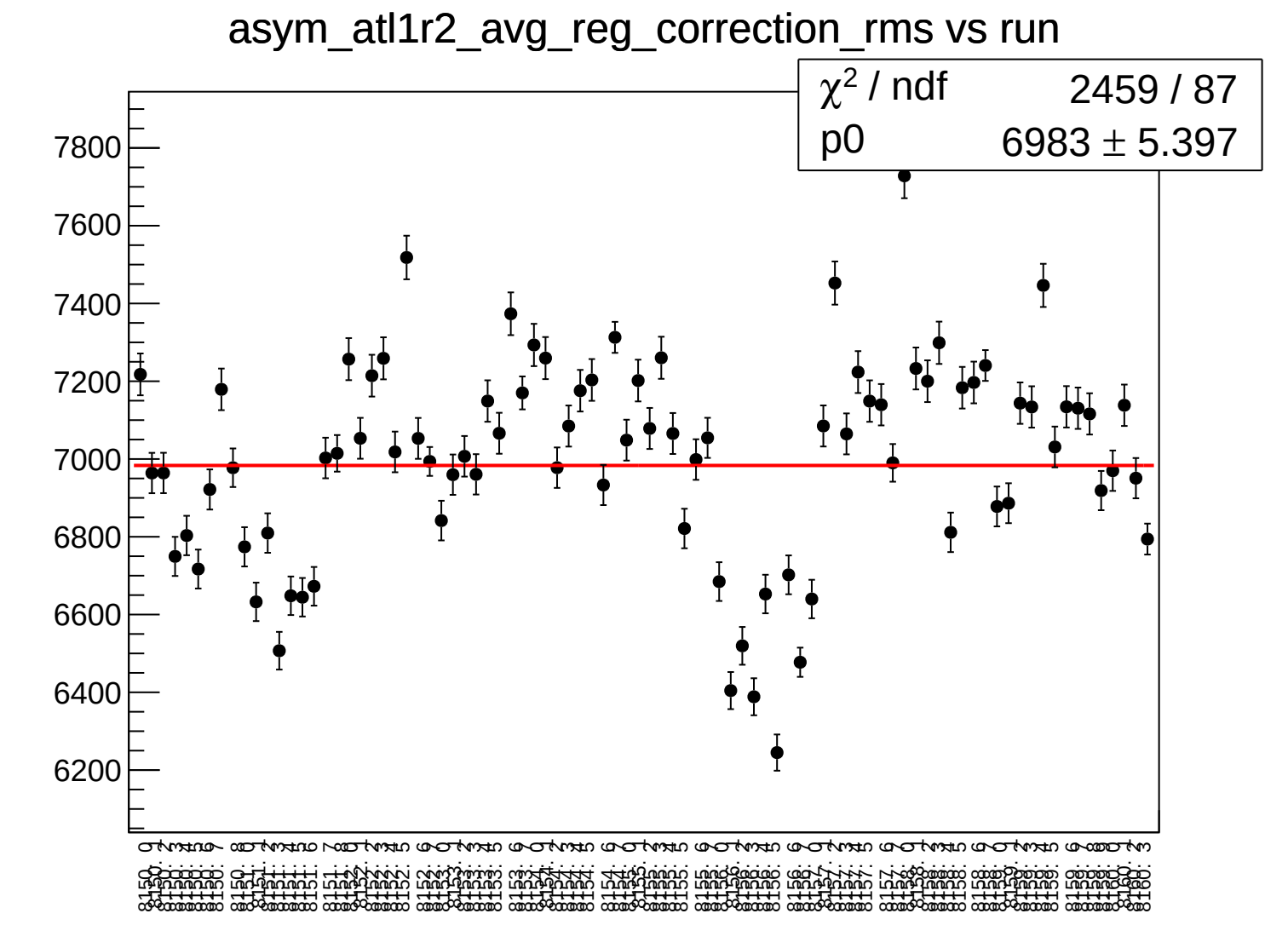

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.45e+05 / 87
p0 5.132e−11 ± 6.001e−14
0.5
0.4
0.3
0.2
0.1

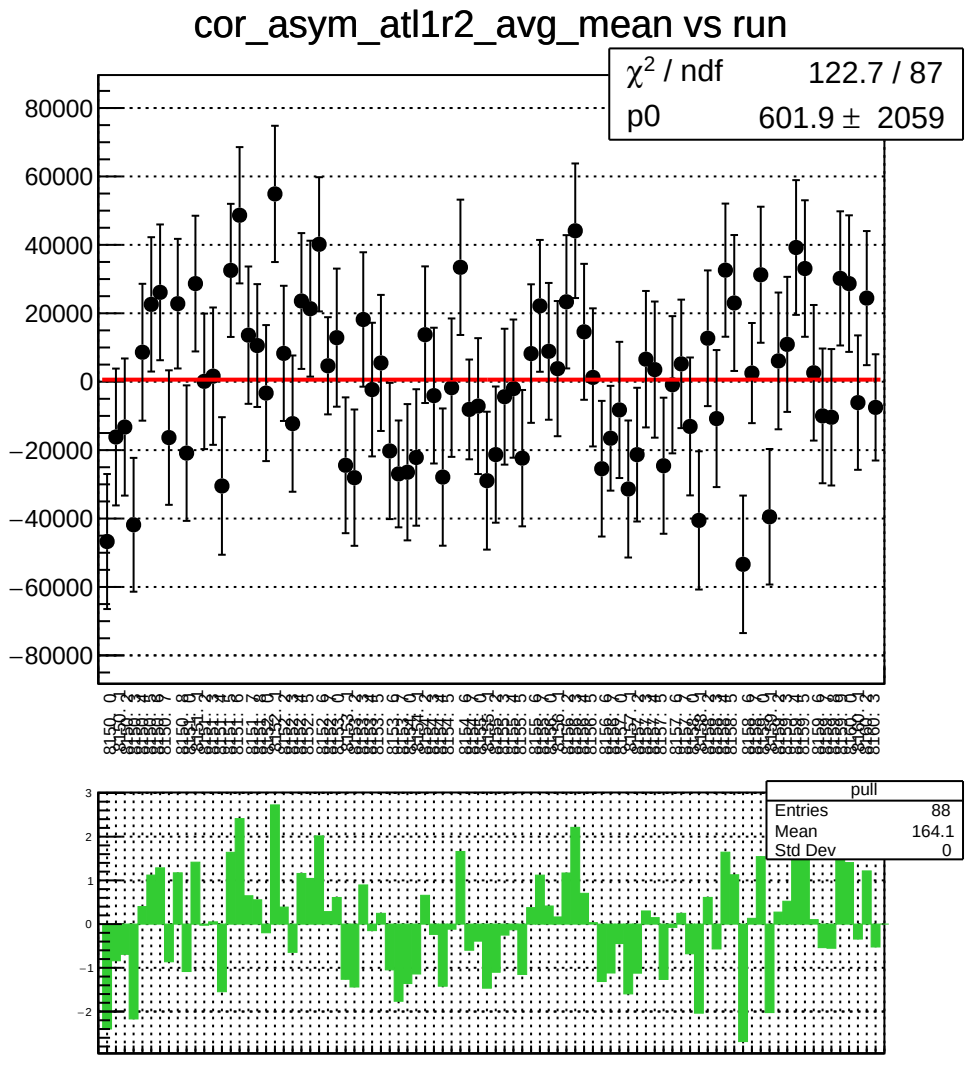

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 122.7 / 87
p0 601.9 ± 2059
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 164
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.006724
Std Dev 1.181
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

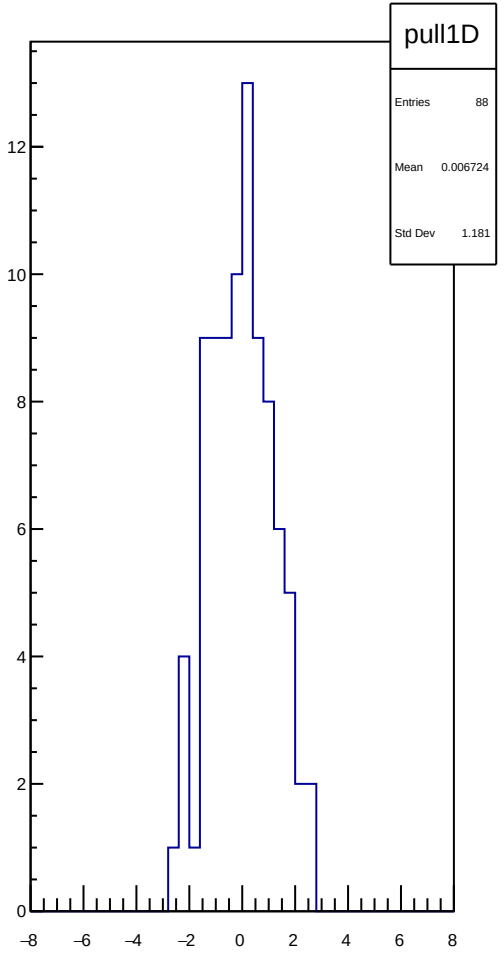

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 137 / 87
p0 1885 ± 1.456
1940
1920
1900
1880
1860
1840

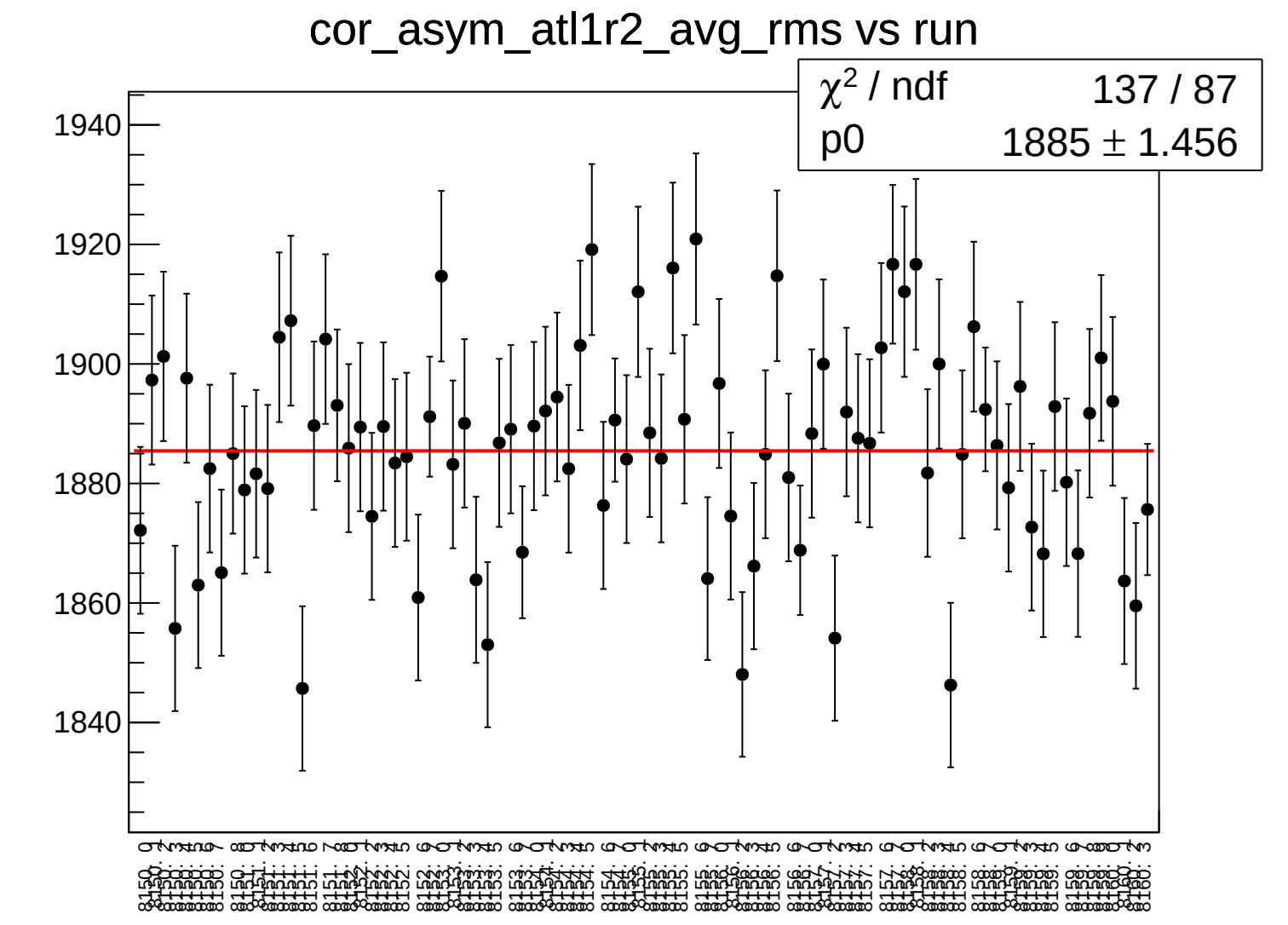

asym_atl1r2_avg_reg_correction_mean vs run
χ² / ndf 105.5 / 87
p0 −8580 ± 7633
×10³
pull
Entries 88
Mean −5971
Std Dev 0

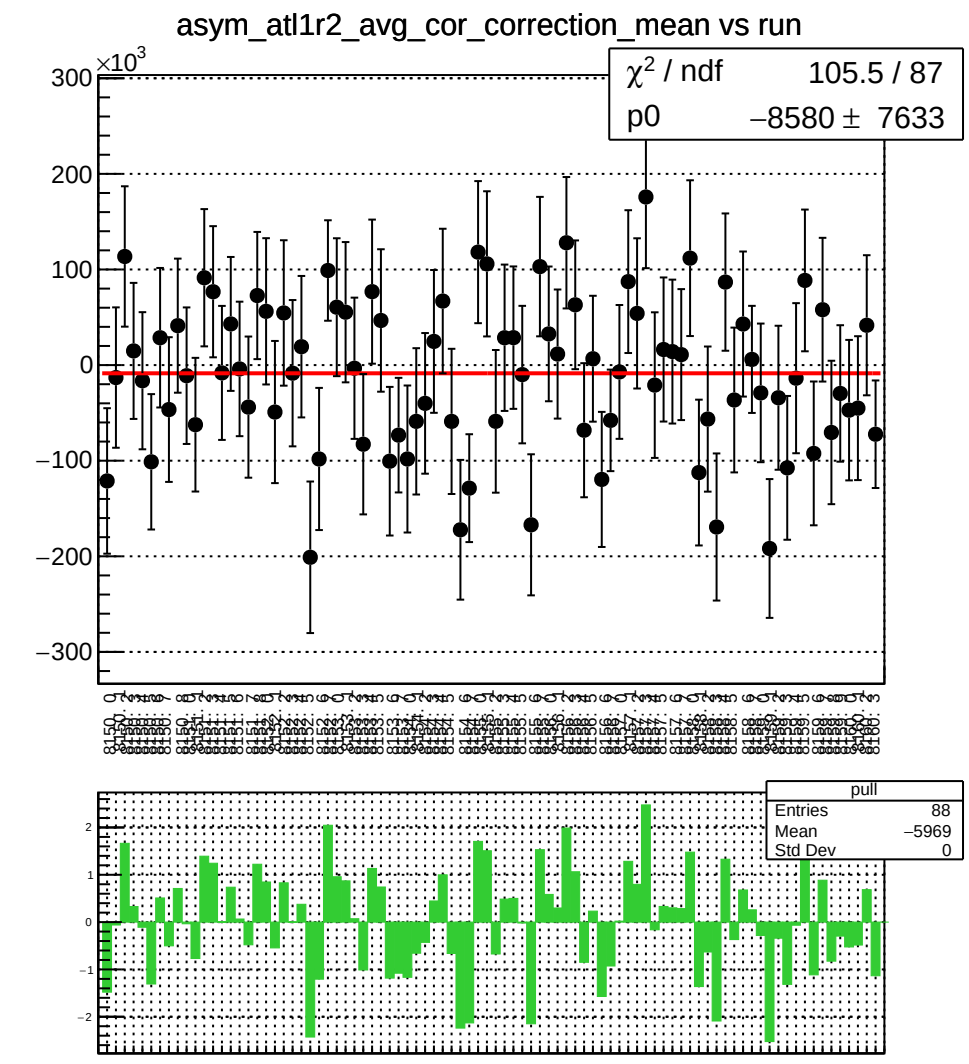

pull1D
Entries 88
Mean 0.0004158
Std Dev 1.095

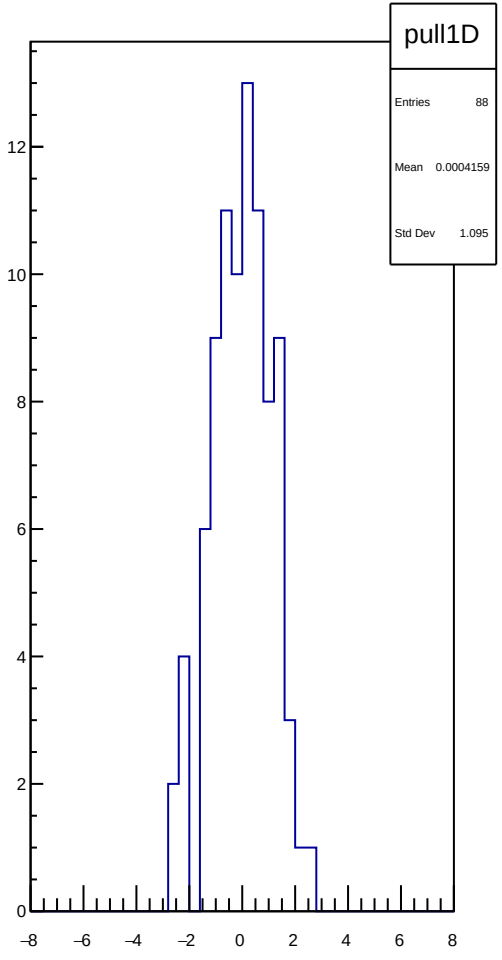

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 2459 / 87
p0 6983 ± 5.397
7800
7600
7400
7200
7000
6800
6600
6400
6200

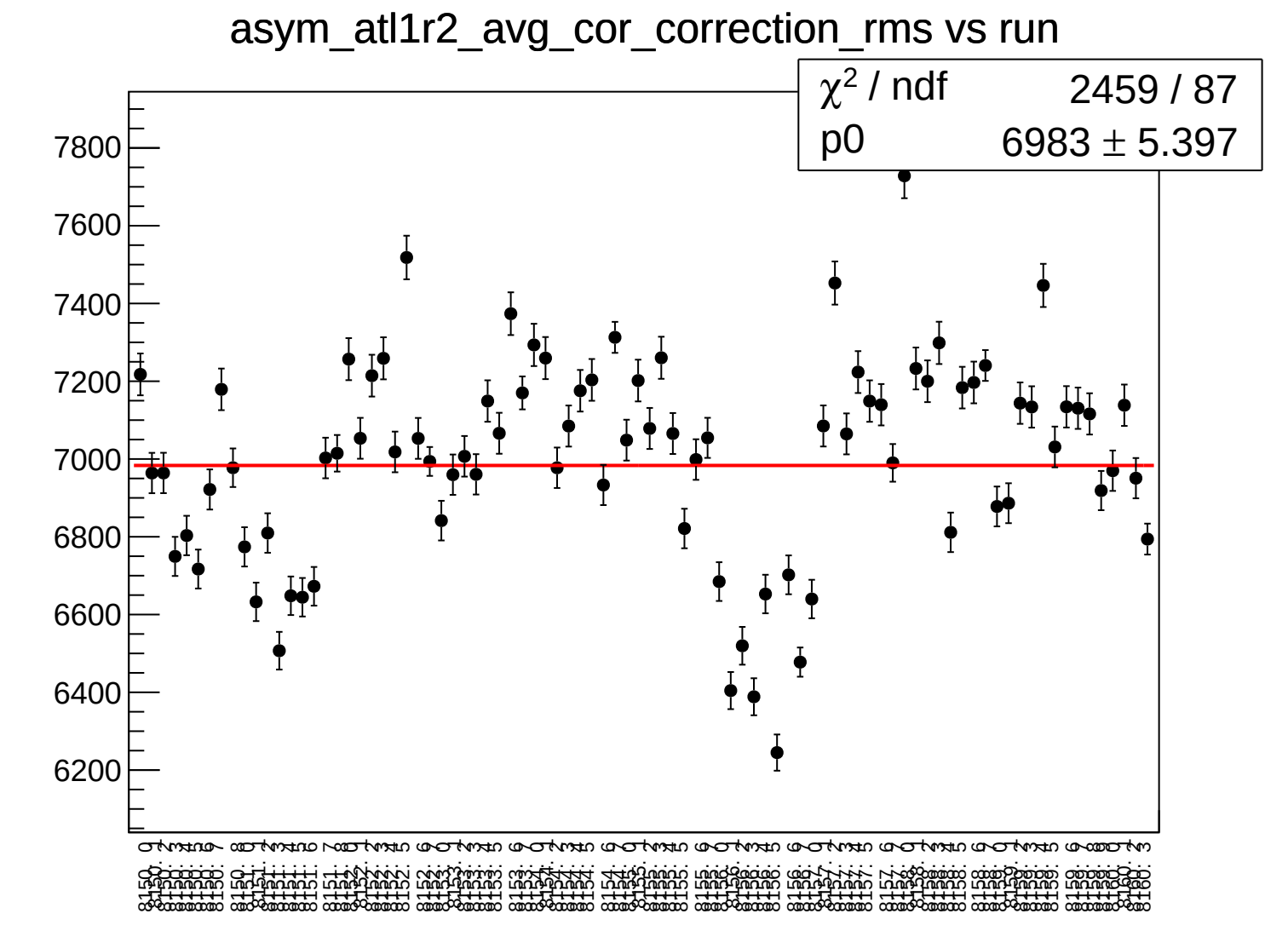

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 122.7 / 87
p0 601.9 ± 2059
pull
Entries 88
Mean 164.1
Std Dev 0

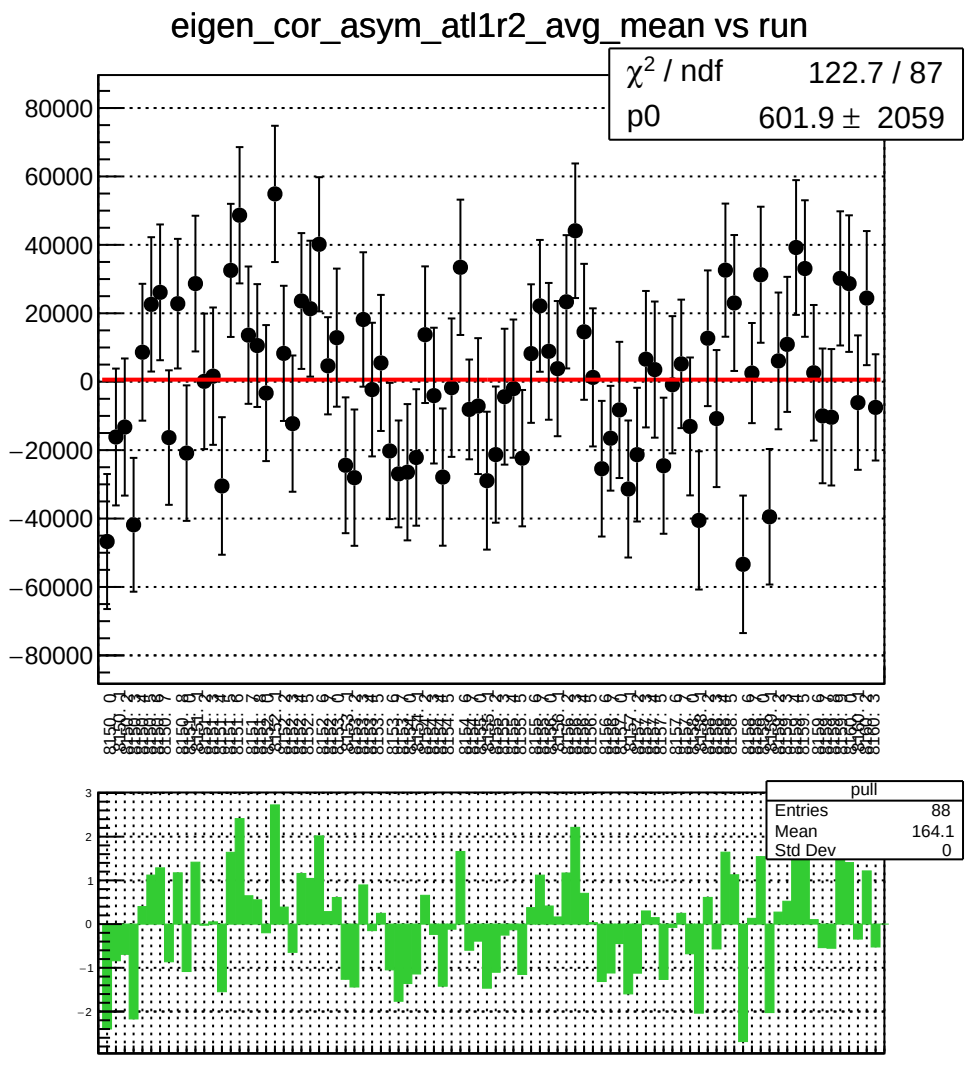

pull1D
Entries 88
Mean 0.006724
Std Dev 1.181

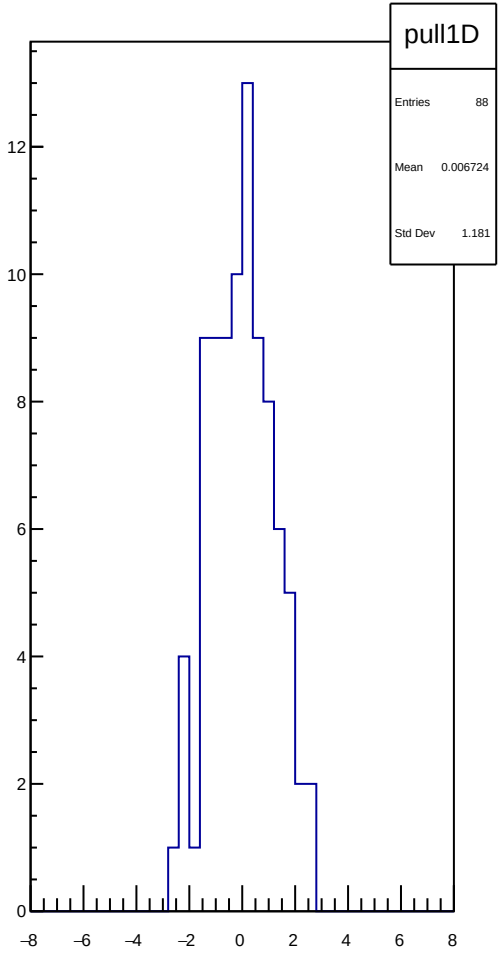

cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 137 / 87
p0 1885 ± 1.456
1940
1920
1900
1880
1860
1840

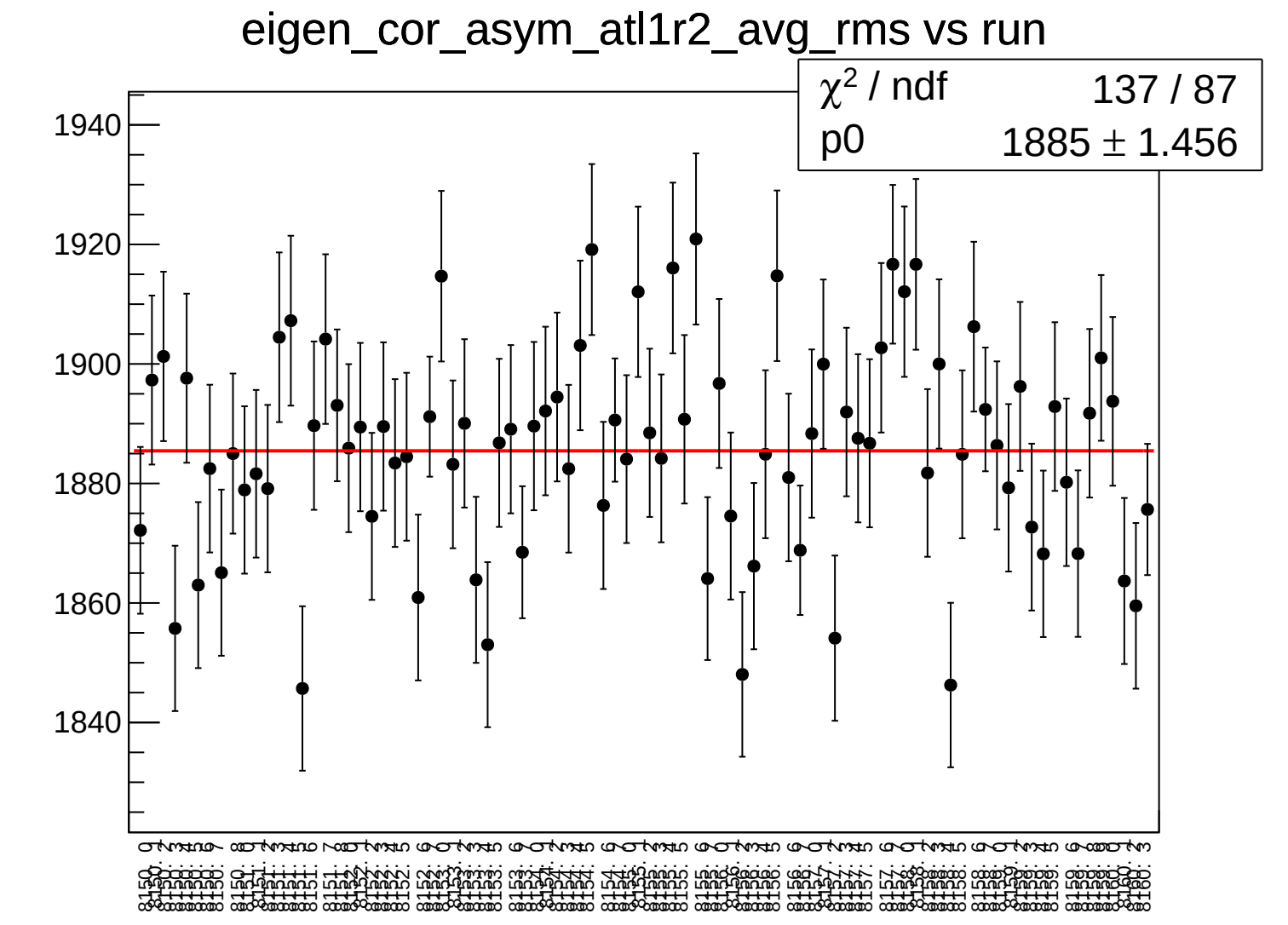

asym_atl1r2_avg_cor_correction_mean vs run
χ² / ndf 105.5 / 87
p0 −8580 ± 7633
×10³
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −5969
Std Dev 0
2
1
0
−1
−2

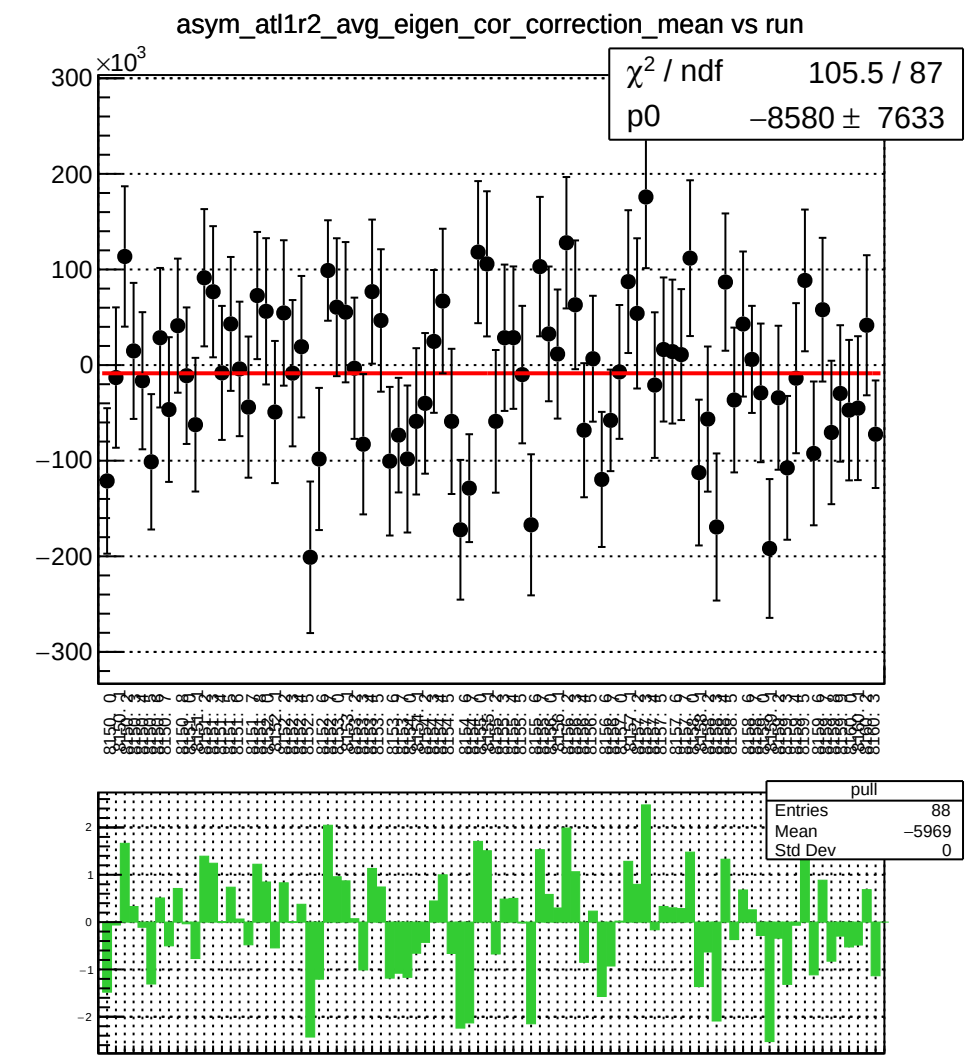

pull1D
Entries 88
Mean 0.0004159
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

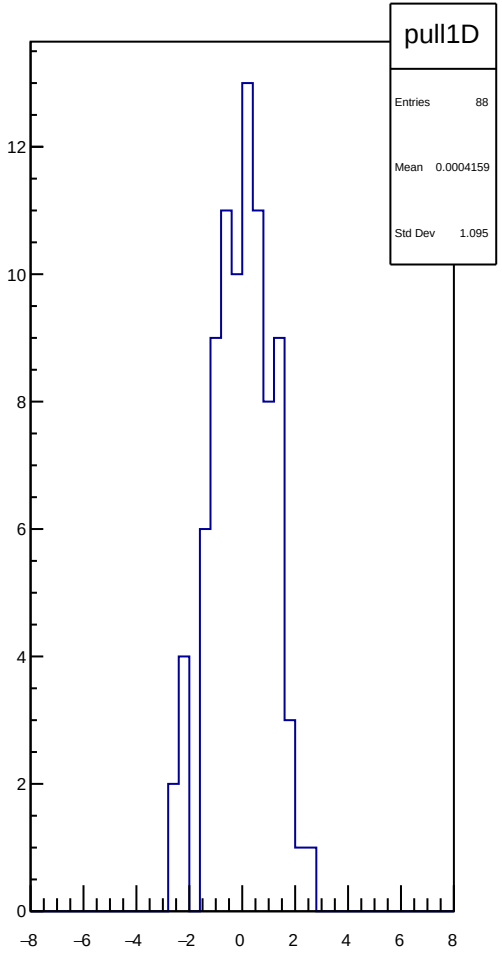

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 2459 / 87
p0 6983 ± 5.397
7800
7600
7400
7200
7000
6800
6600
6400
6200

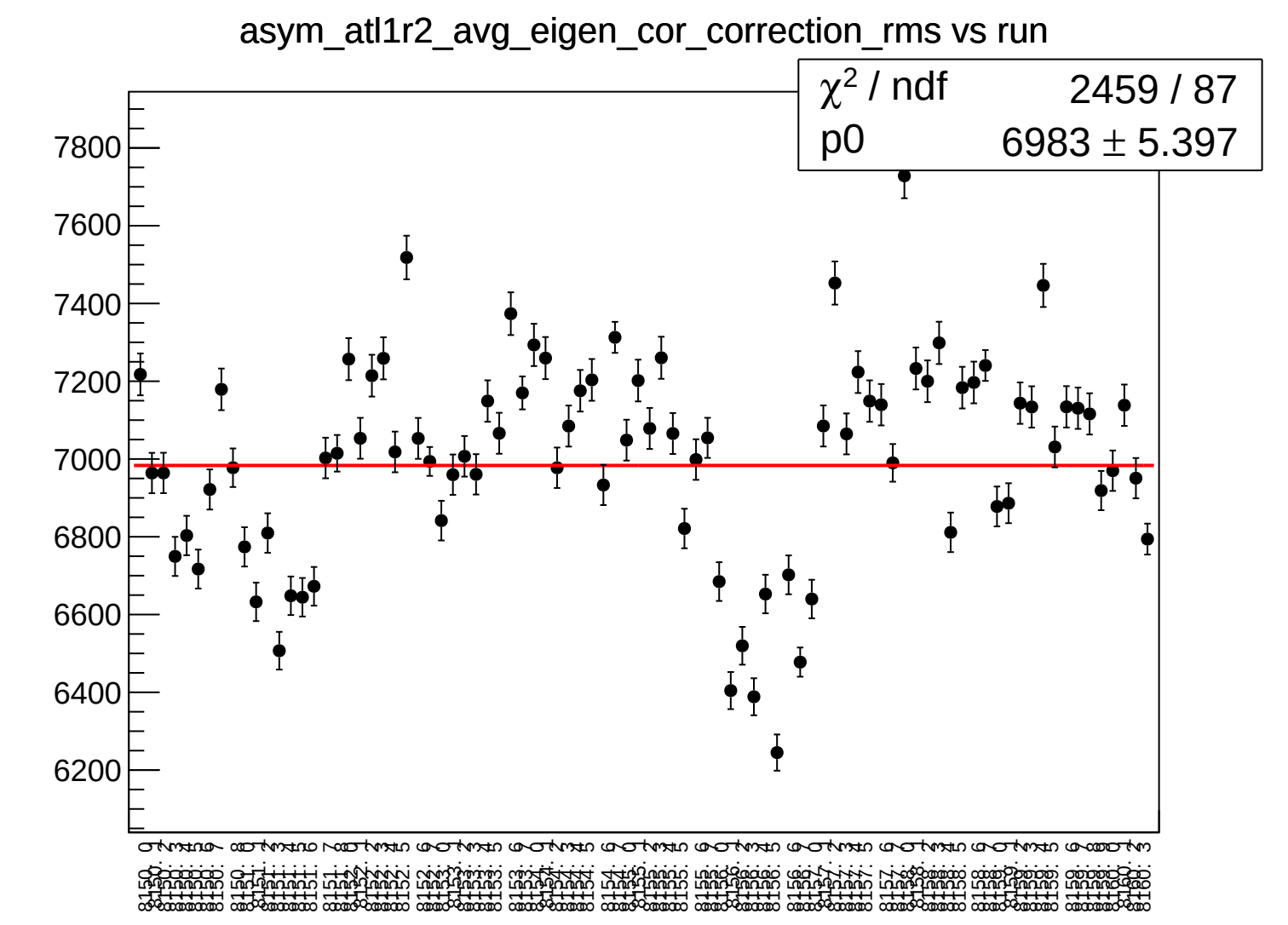

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 122.7 / 87
p0 601.9 ± 2059
pull
Entries 88
Mean 164.1
Std Dev 0

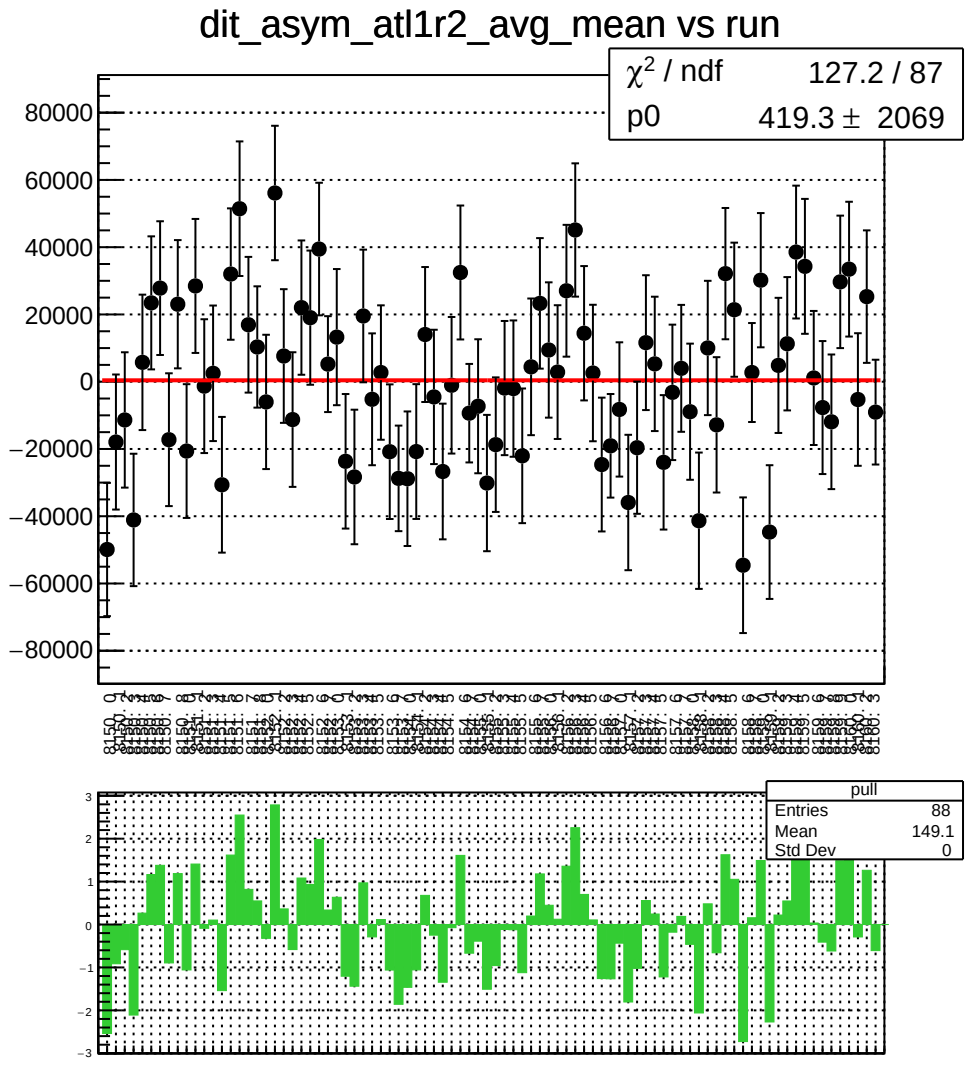

pull1D
Entries 88
Mean 0.006724
Std Dev 1.181

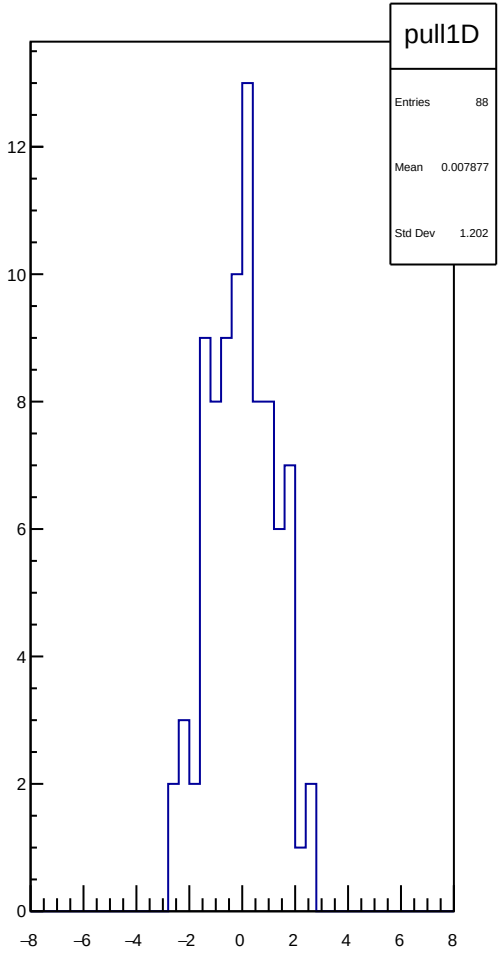

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 137 / 87
p0 1885 ± 1.456
1940
1920
1900
1880
1860
1840

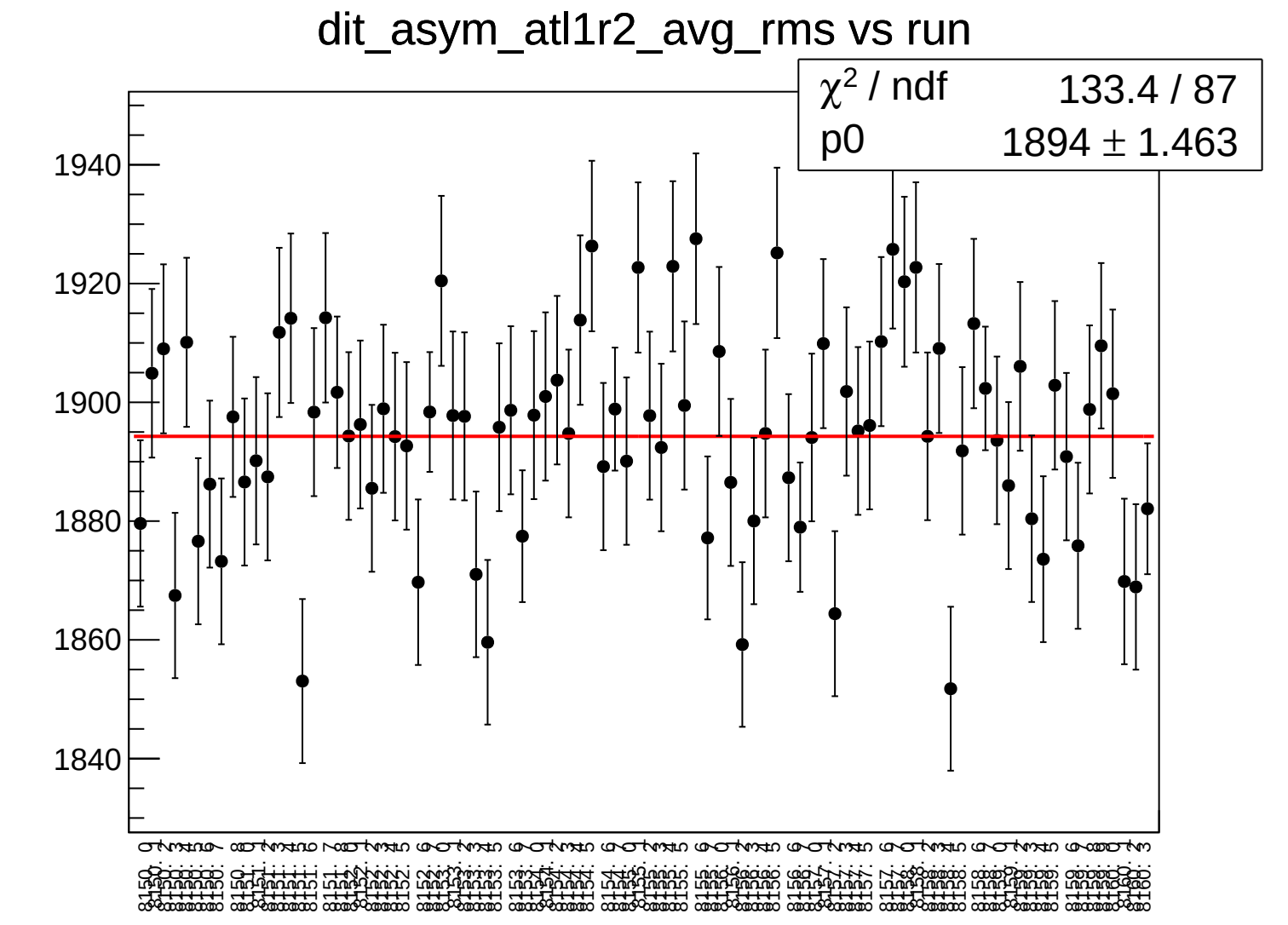

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 105.5 / 87
p0 −8580 ± 7633
pull
Entries 88
Mean −5969
Std Dev 0

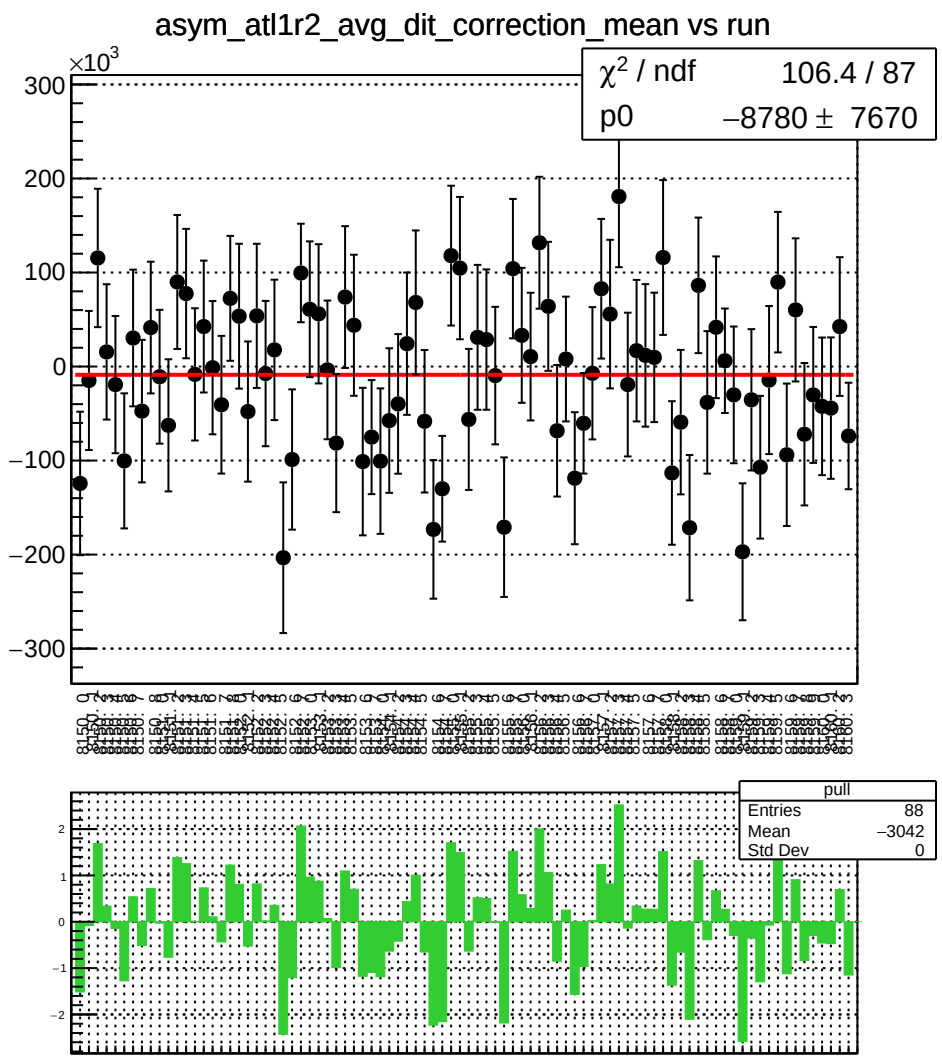

pull1D
Entries 88
Mean 0.0004159
Std Dev 1.095

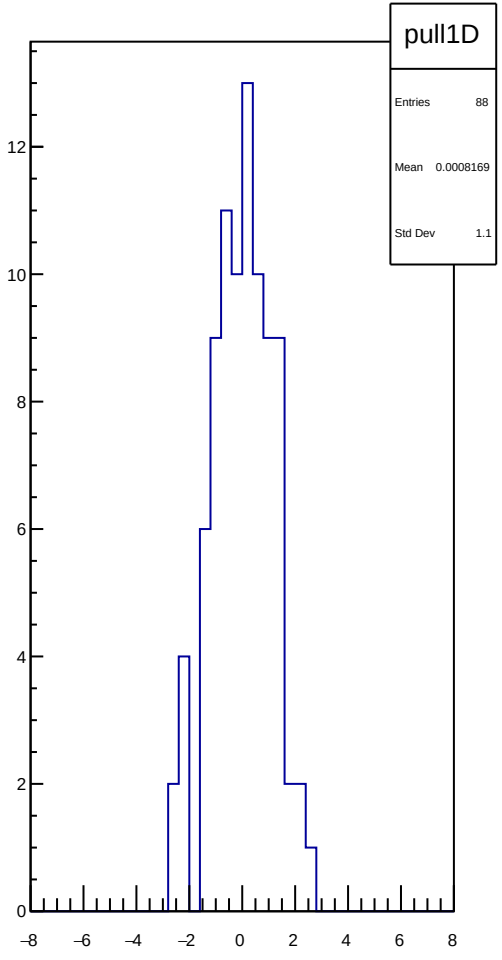

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2459 / 87
p0 6983 ± 5.397
7800
7600
7400
7200
7000
6800
6600
6400
6200

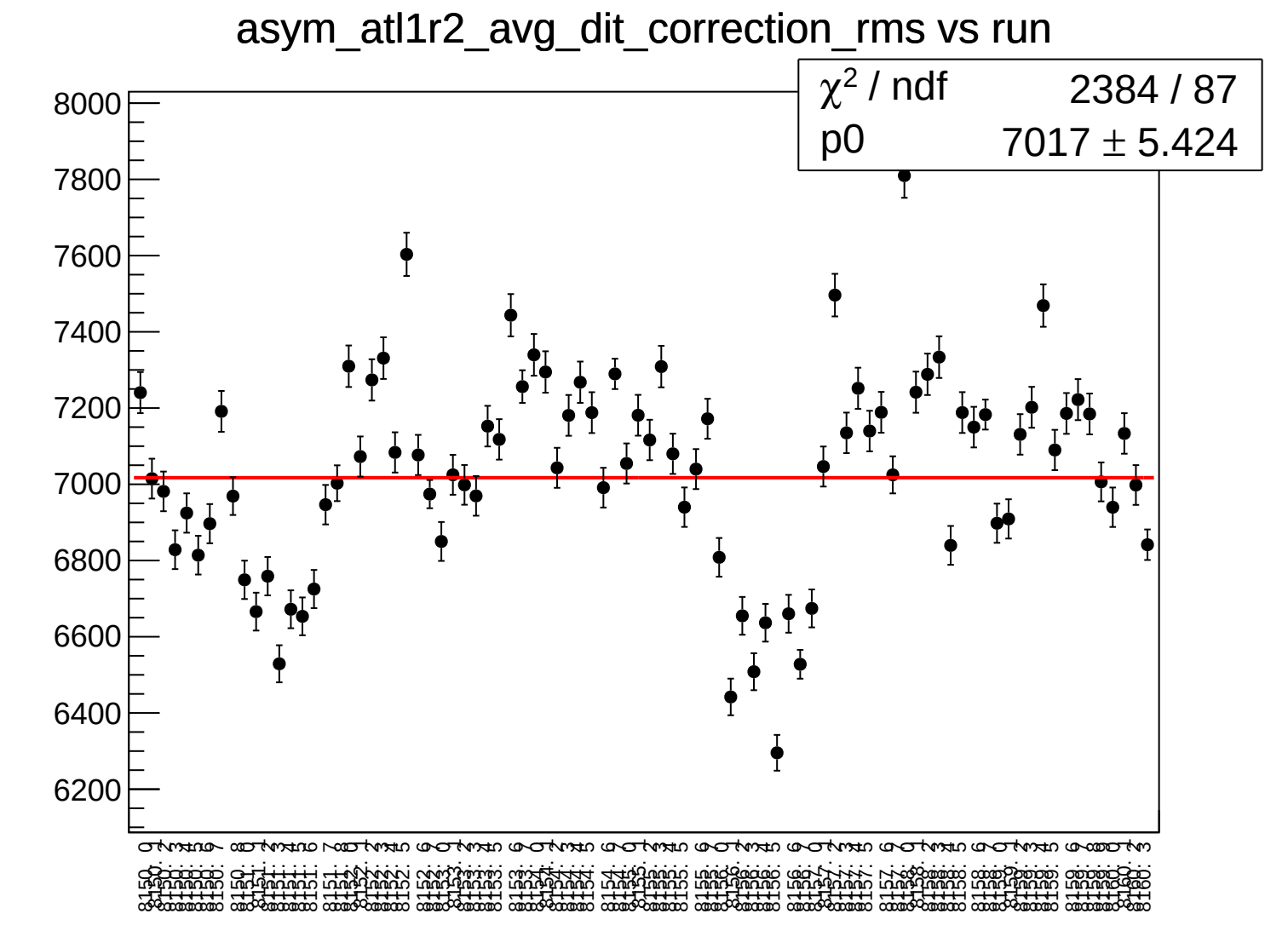

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 127.2 / 87
p0 419.3 ± 2069
pull
Entries 88
Mean 149.1
Std Dev 0

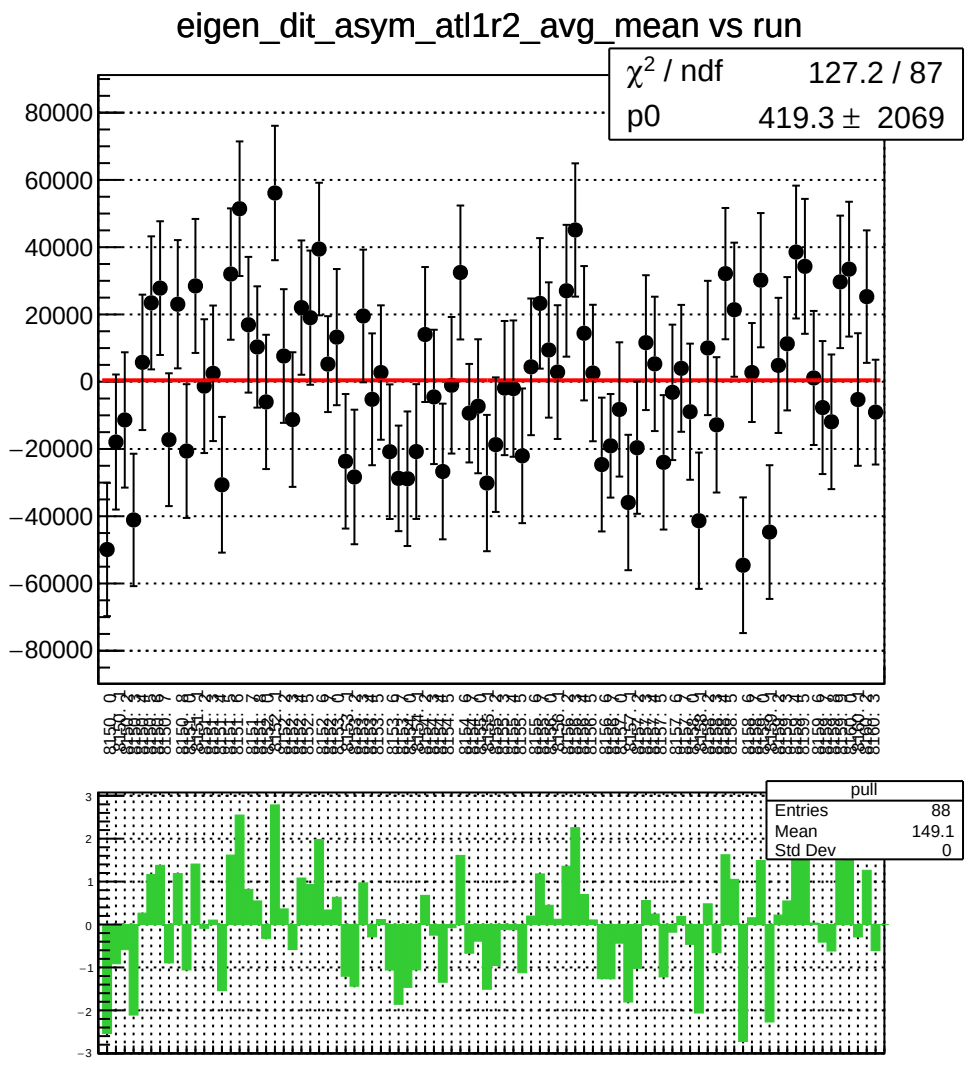

pull1D
Entries 88
Mean 0.007877
Std Dev 1.202

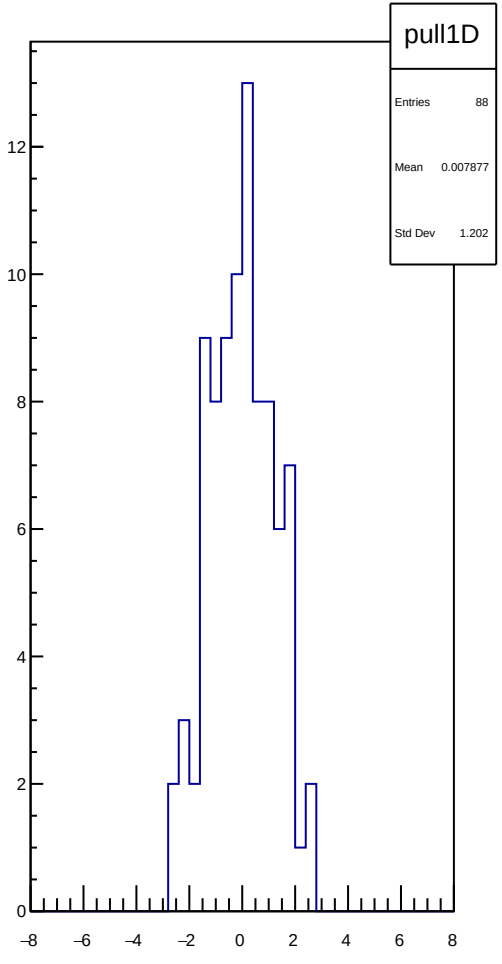

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 133.4 / 87
p0 1894 ± 1.463
1940
1920
1900
1880
1860
1840

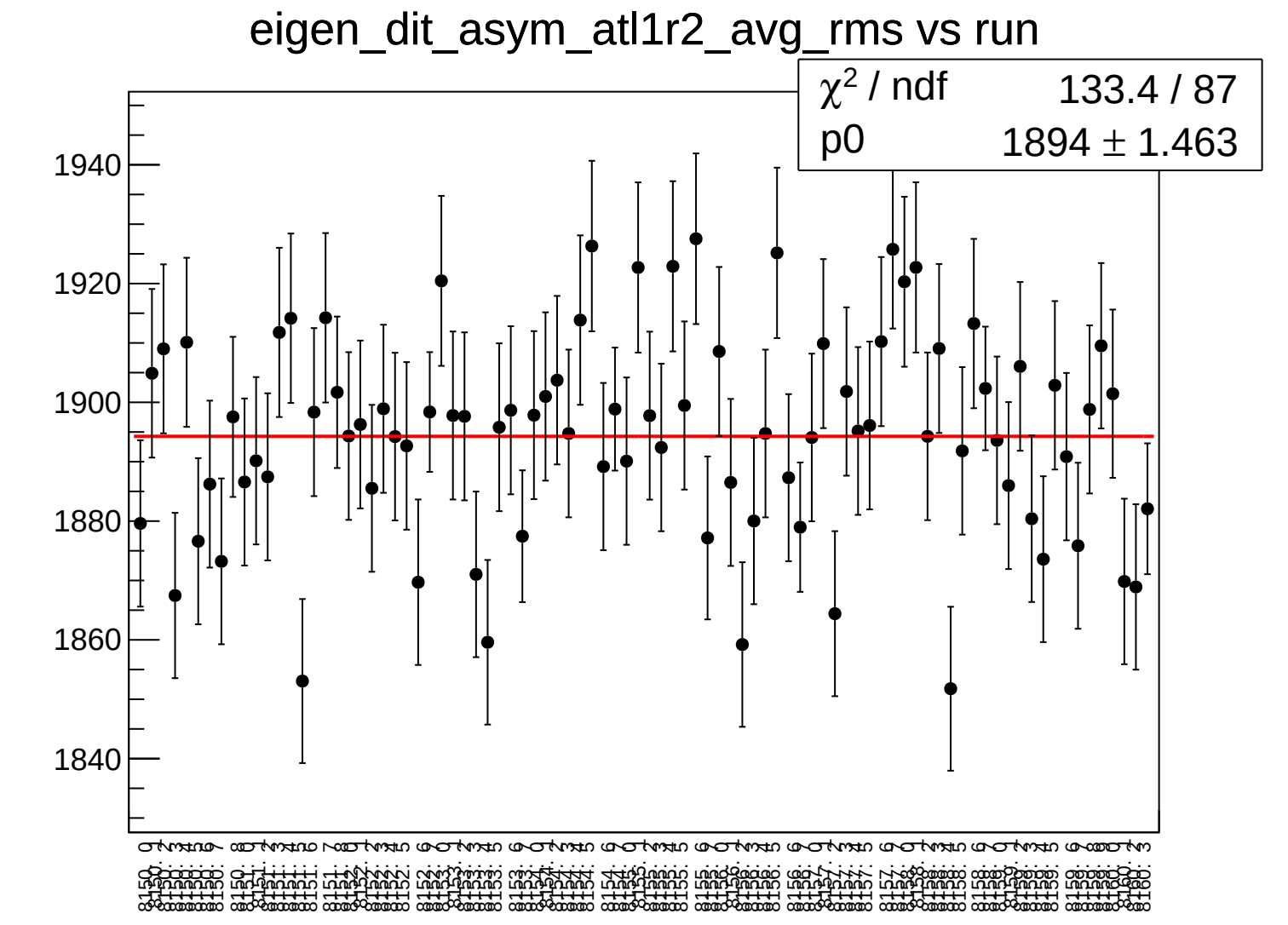

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 106.4 / 87
p0 −8780 ± 7670
pull
Entries 88
Mean −3042
Std Dev 0

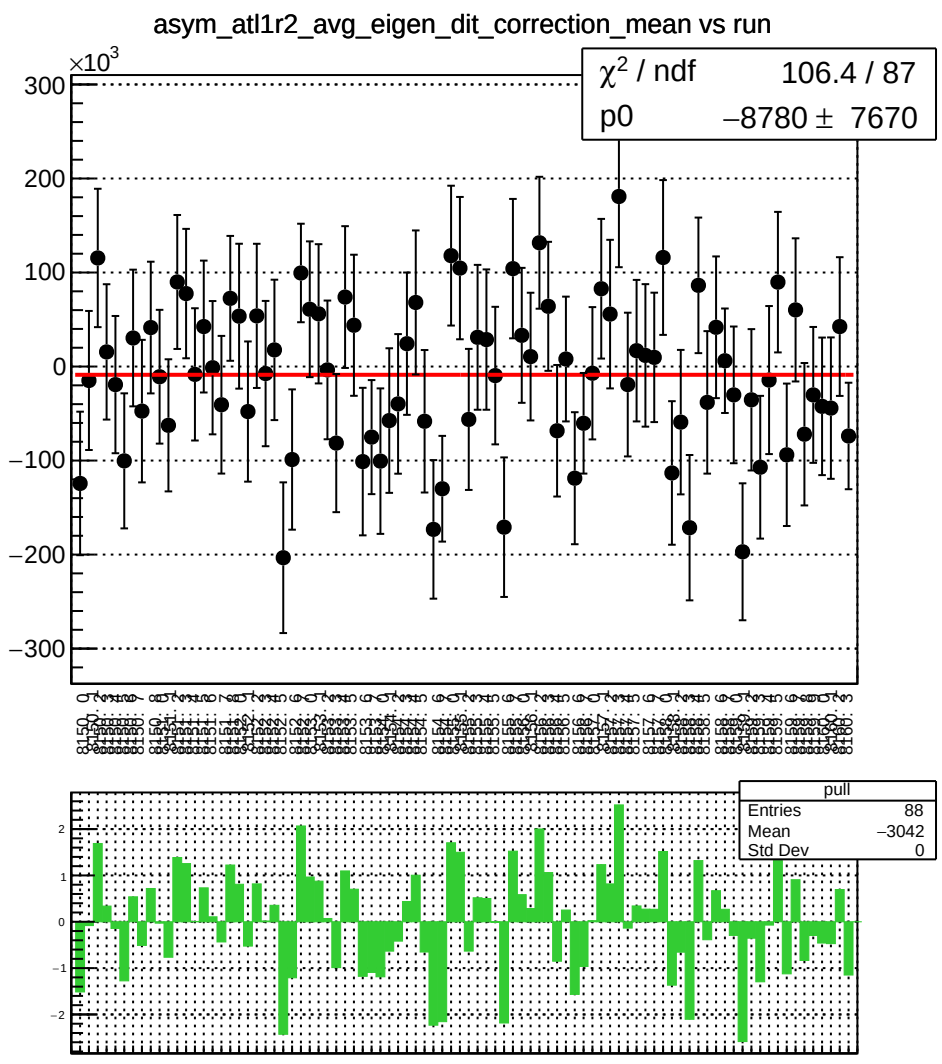

pull1D
Entries 88
Mean 0.0008169
Std Dev 1.1

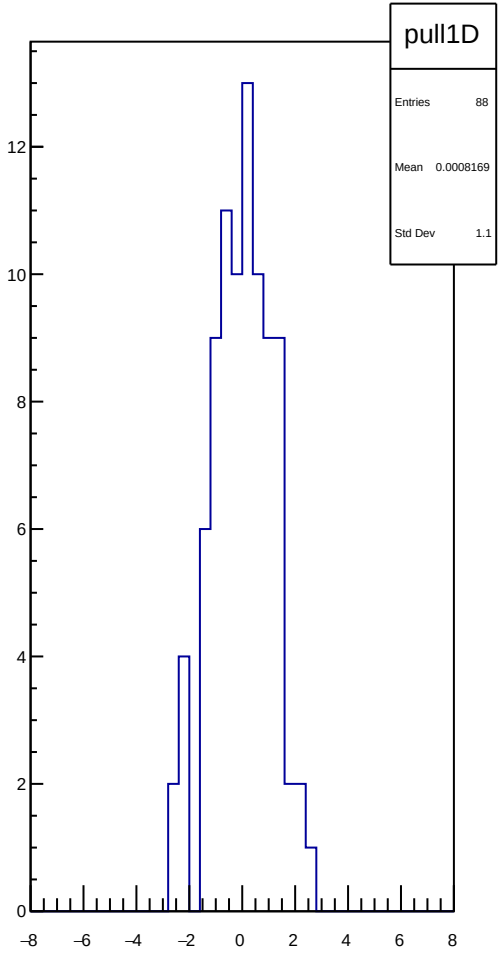

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 2384 / 87
p0 7017 ± 5.424
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

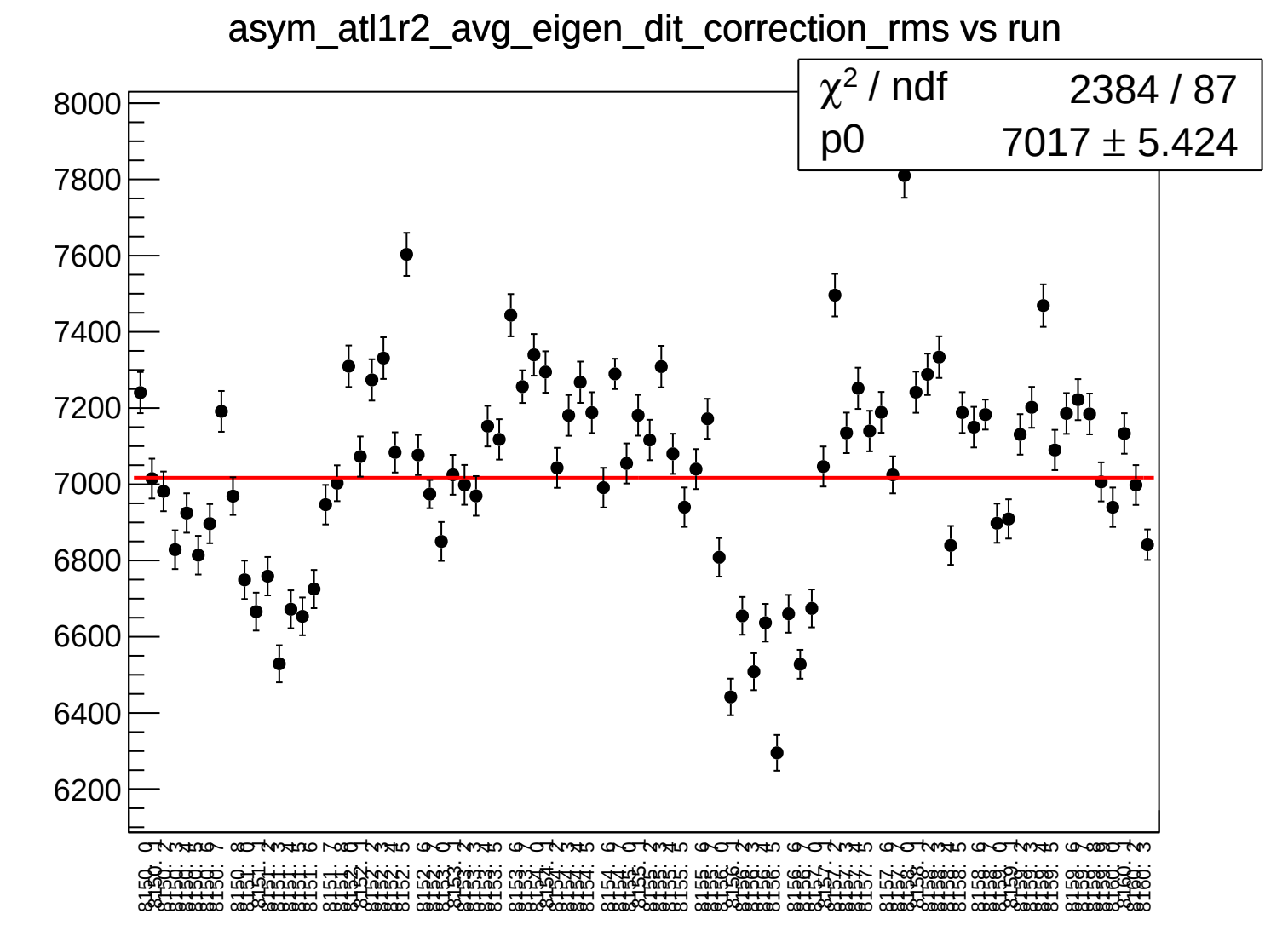

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 127.2 / 87
p0 419.3 ± 2069
pull
Entries 88
Mean 149.1
Std Dev 0

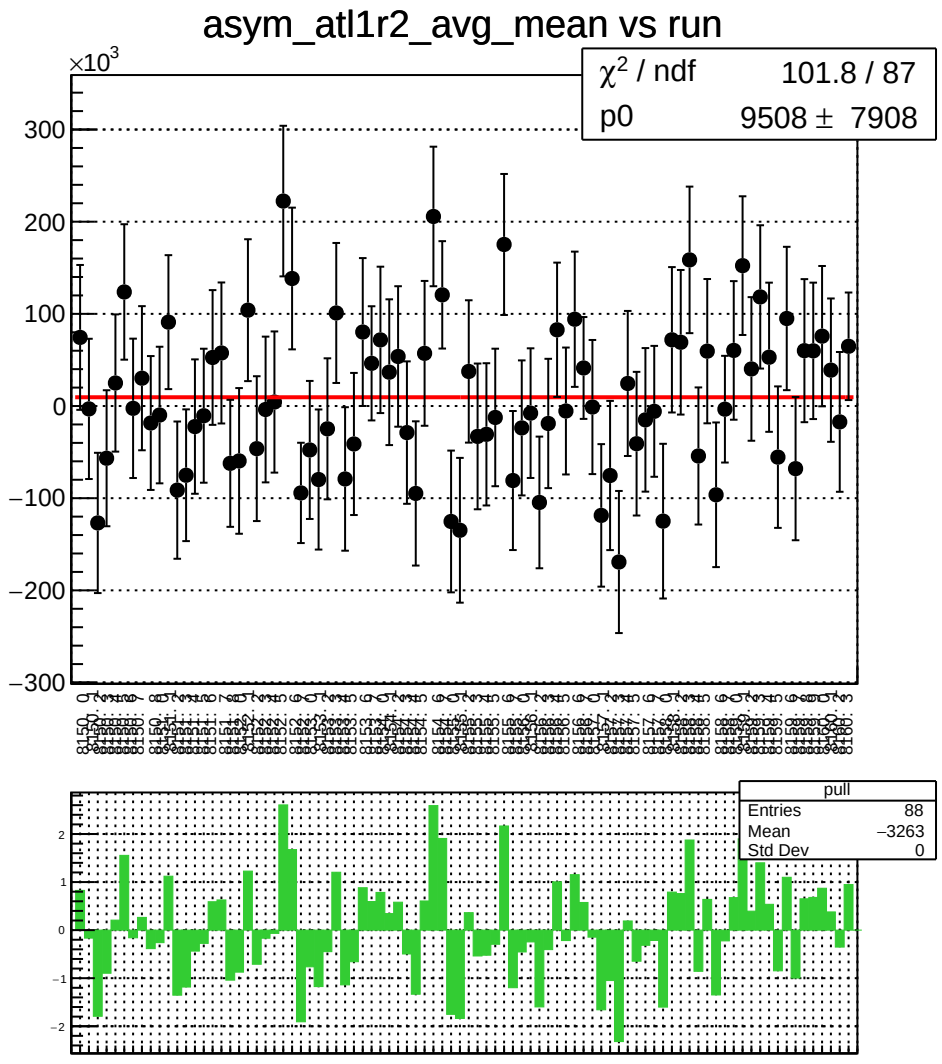

pull1D
Entries 88
Mean 0.007877
Std Dev 1.202

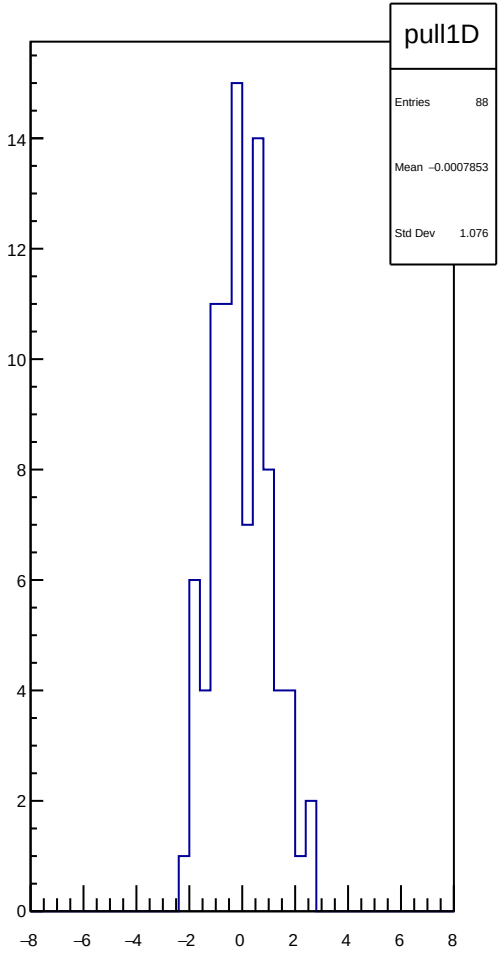

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 133.4 / 87
p0 1894 ± 1.463
1940
1920
1900
1880
1860
1840

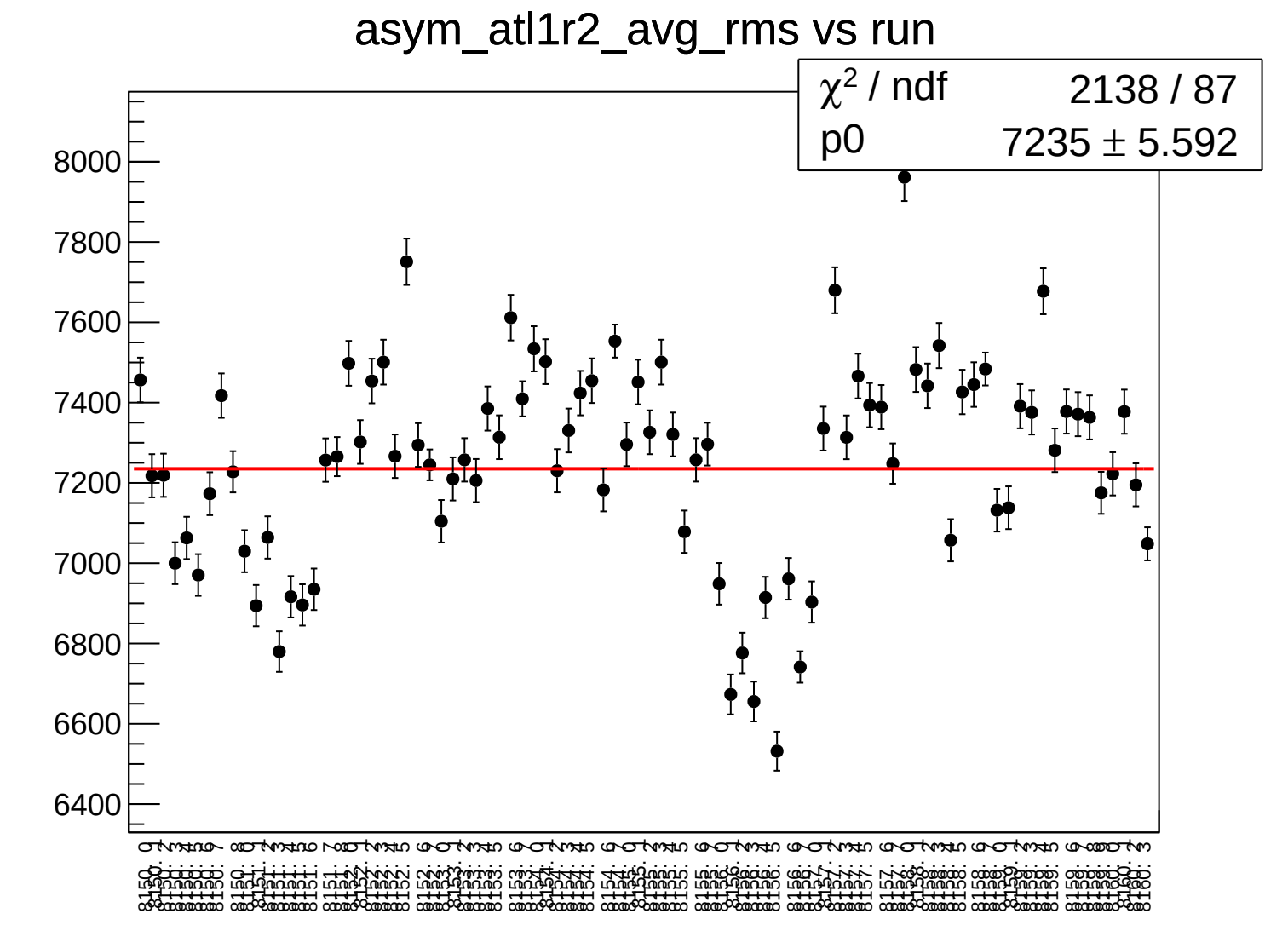

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 106.4 / 87
p0 −8780 ± 7670
pull
Entries 88
Mean −3042
Std Dev 0

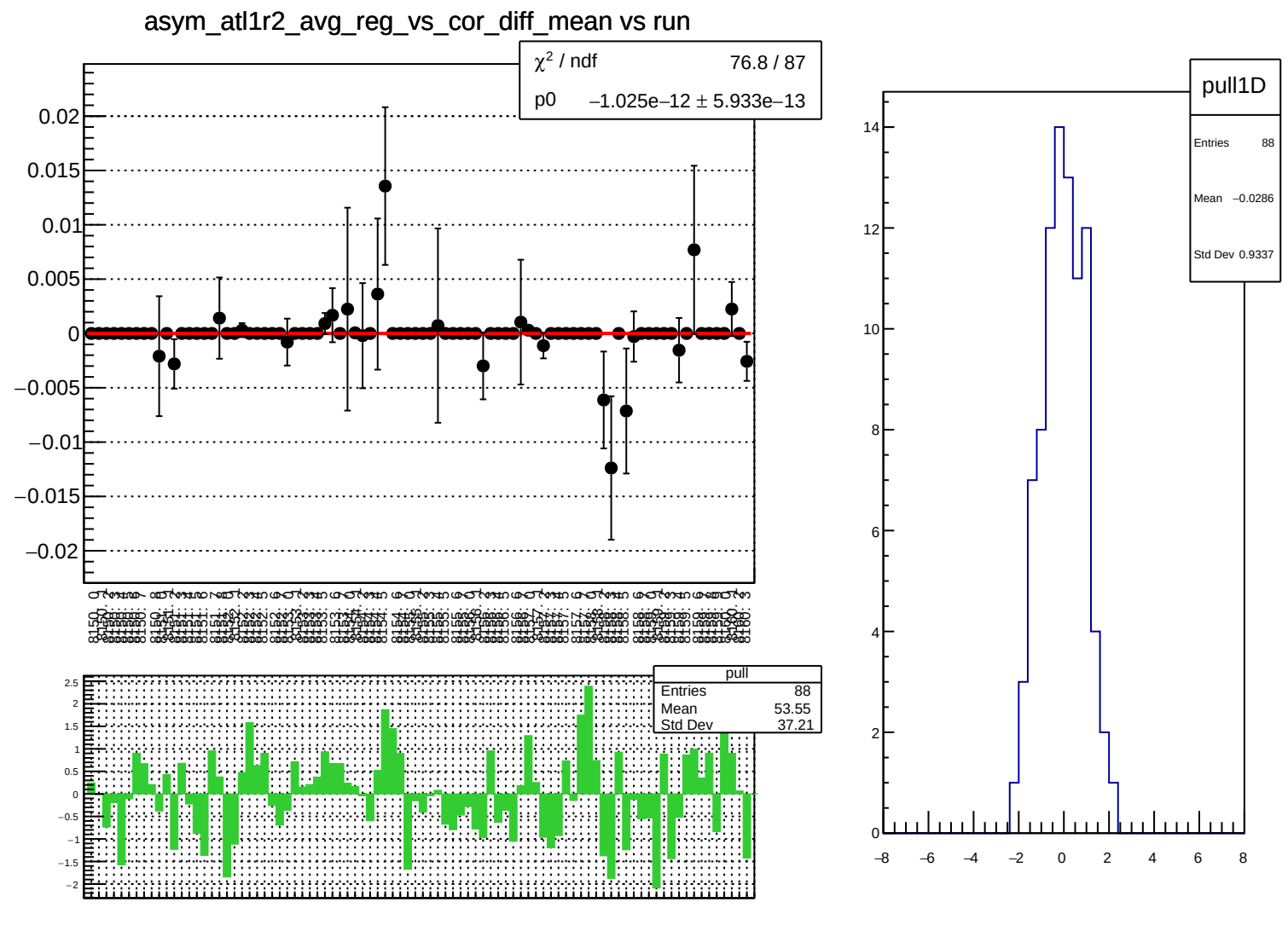

pull1D
Entries 88
Mean 0.0008169
Std Dev 1.1

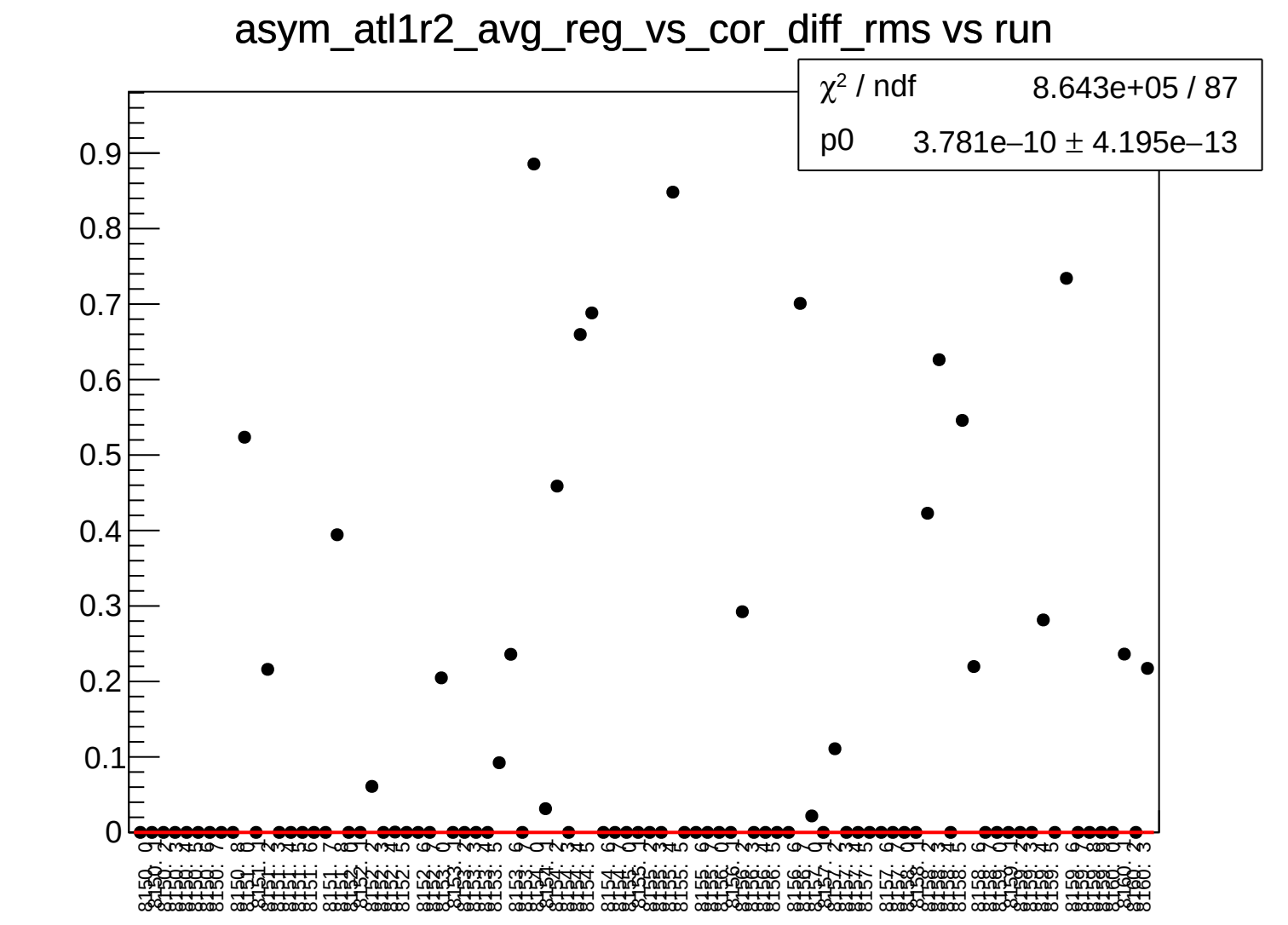

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2384 / 87
p0 7017 ± 5.424
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

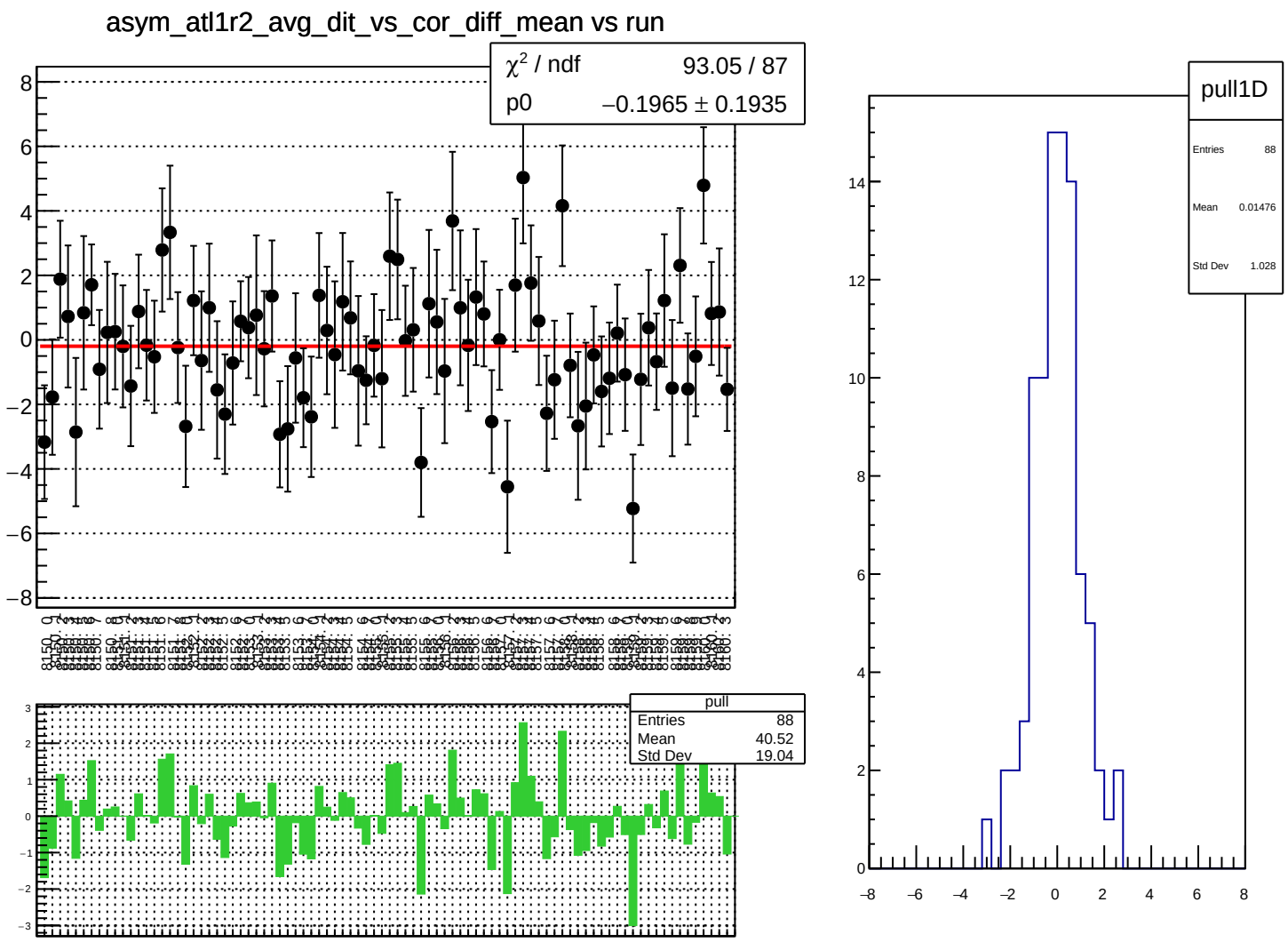

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 101.8 / 87
p0 9508 ± 7908
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −3263
Std Dev 0
2
1
0
−1
−2

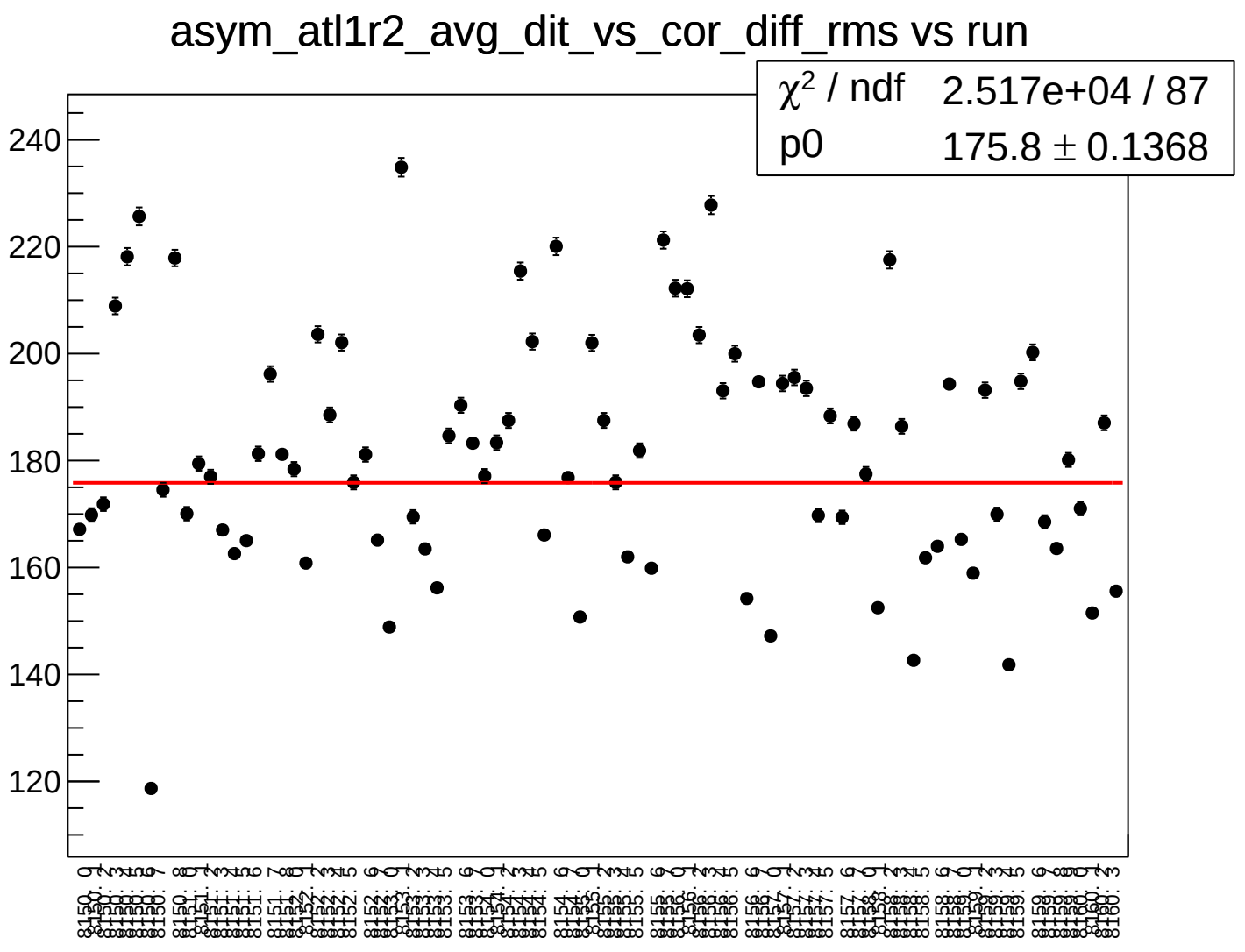

pull1D
Entries 88
Mean −0.0007853
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

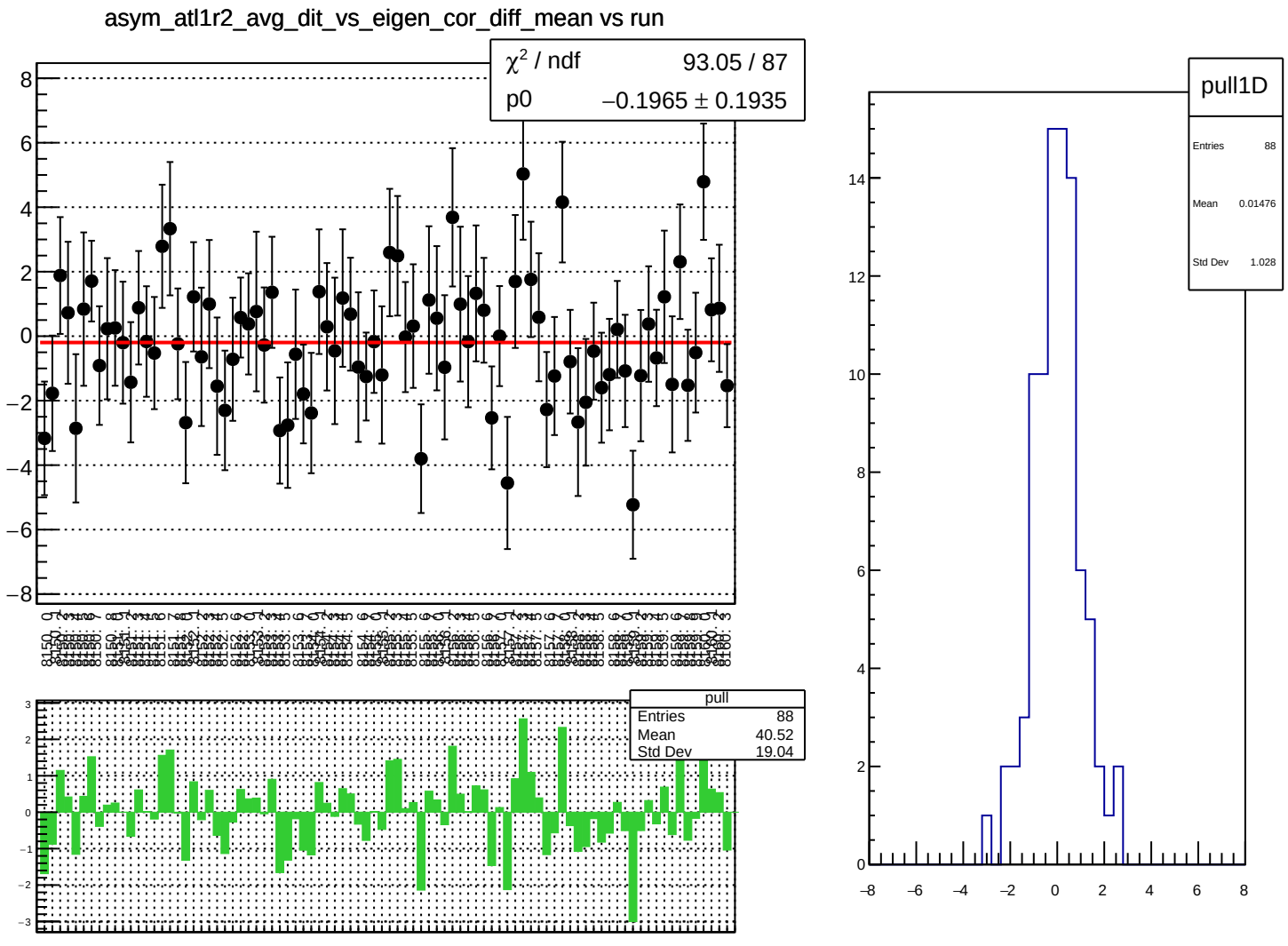

asym_atl1r2_avg_rms vs run
χ² / ndf 2138 / 87
p0 7235 ± 5.592
8000
7800
7600
7400
7200
7000
6800
6600
6400

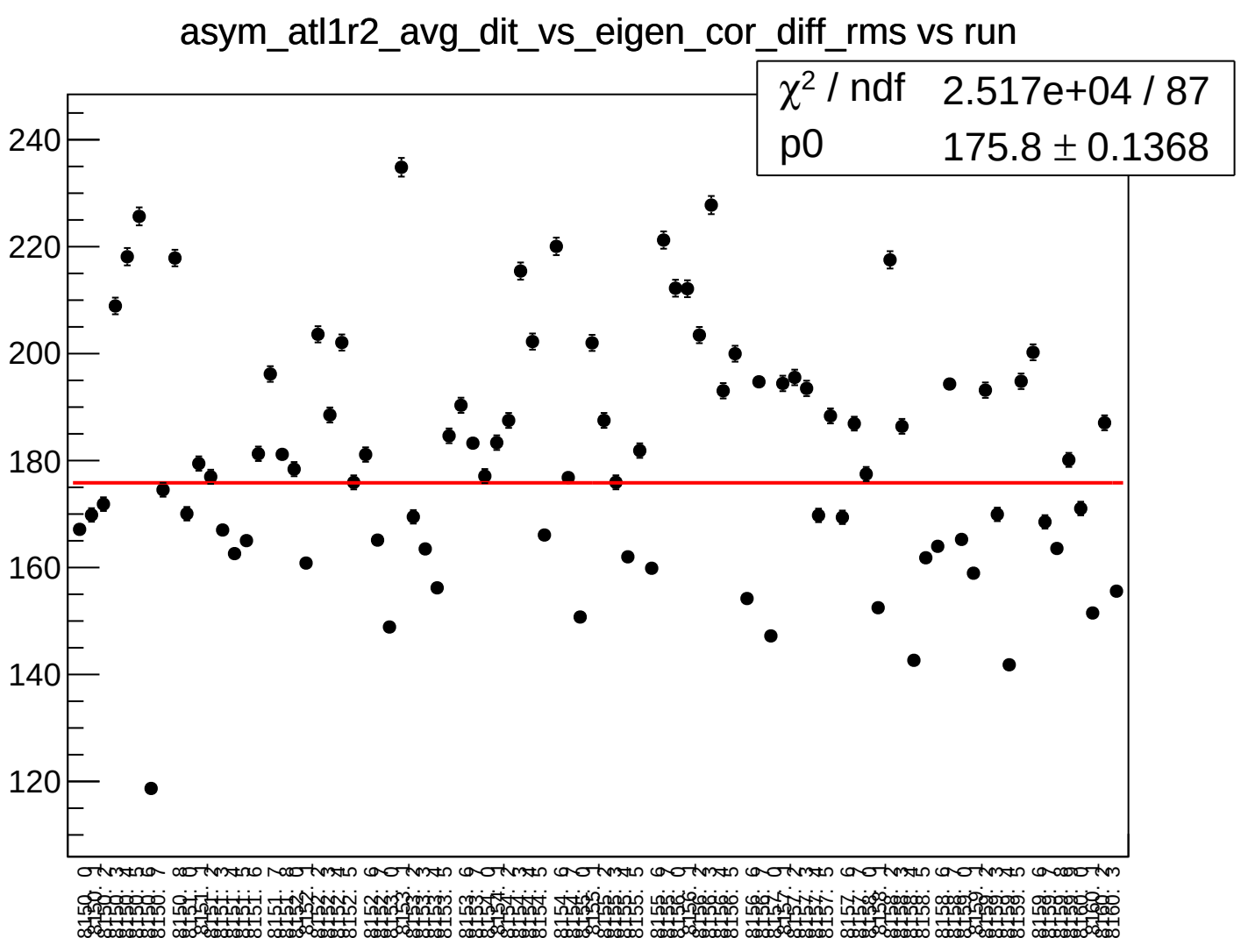

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.8 / 87
p0 −1.025e−12 ± 5.933e−13
pull
Entries 88
Mean 53.55
Std Dev 37.21
pull1D
Entries 88
Mean −0.0286
Std Dev 0.9337

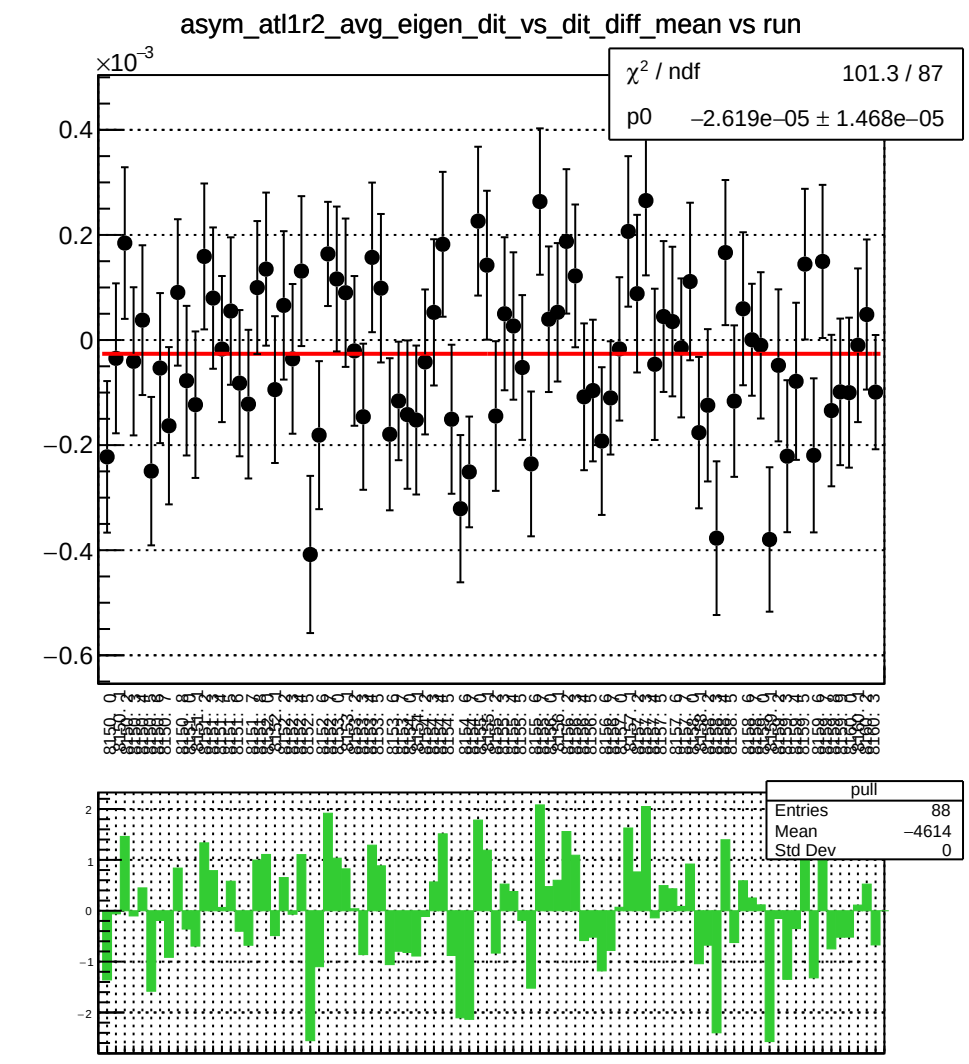

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.643e+05 / 87
p0 3.781e−10 ± 4.195e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

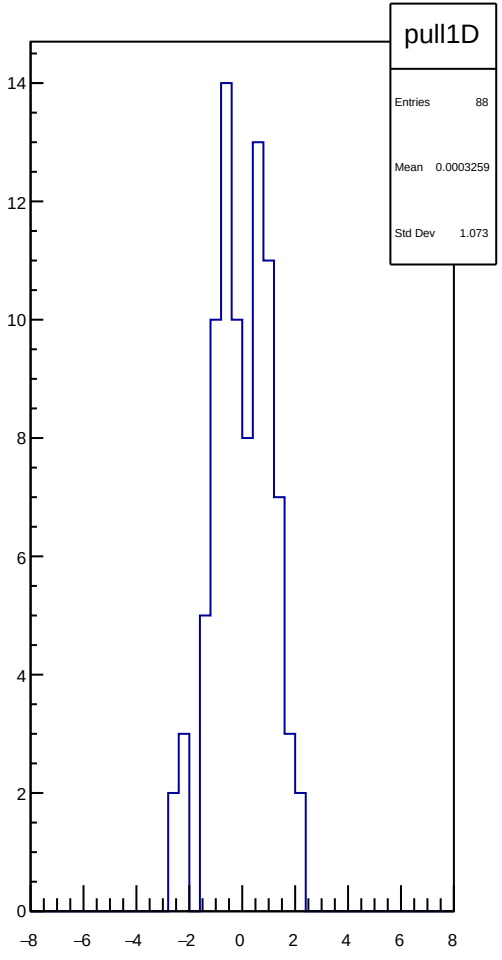

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.05 / 87
p0 −0.1965 ± 0.1935
pull
Entries 88
Mean 40.52
Std Dev 19.04
pull1D
Entries 88
Mean 0.01476
Std Dev 1.028

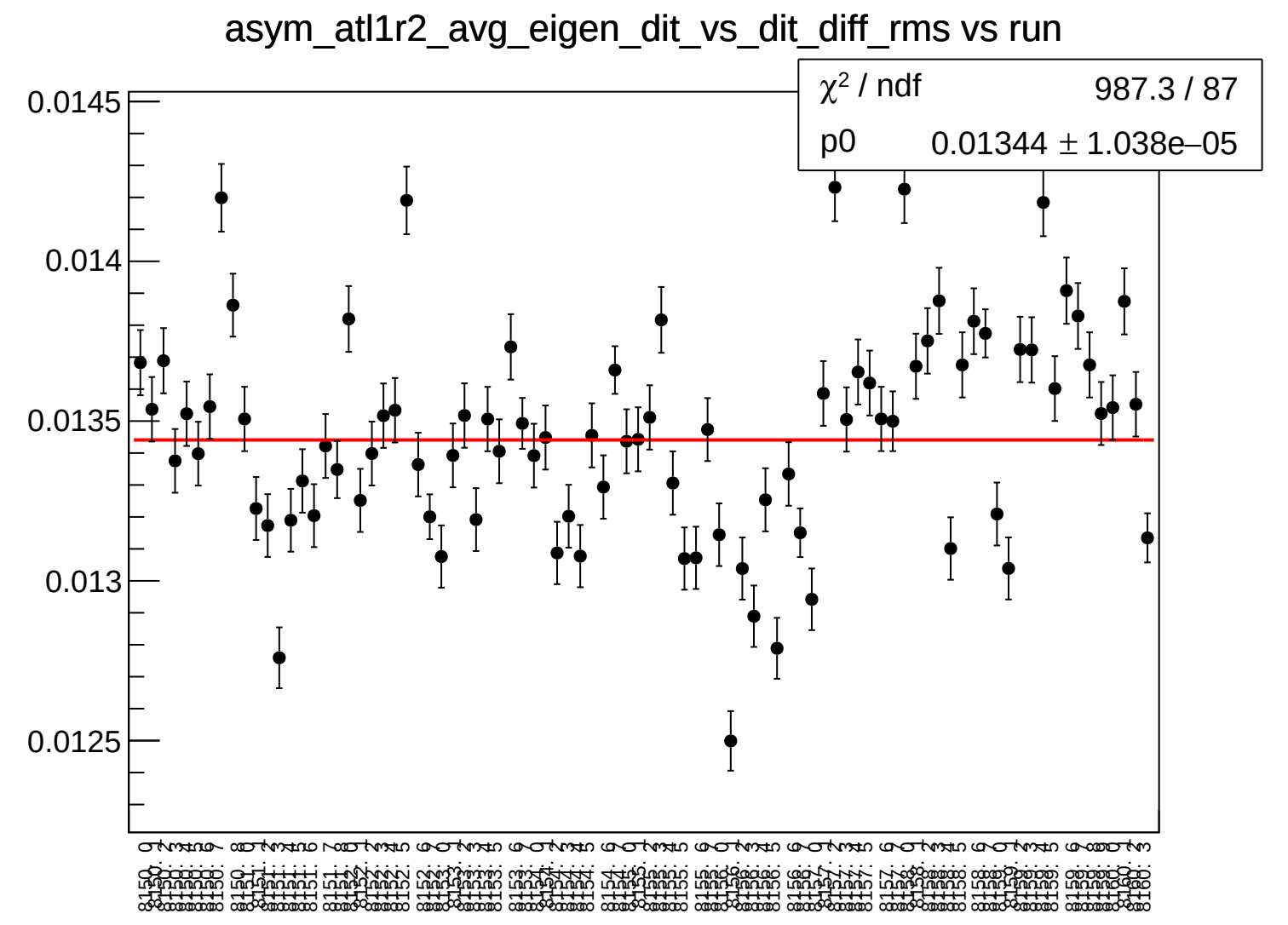

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.517e+04 / 87
p0 175.8 ± 0.1368
240
220
200
180
160
140
120

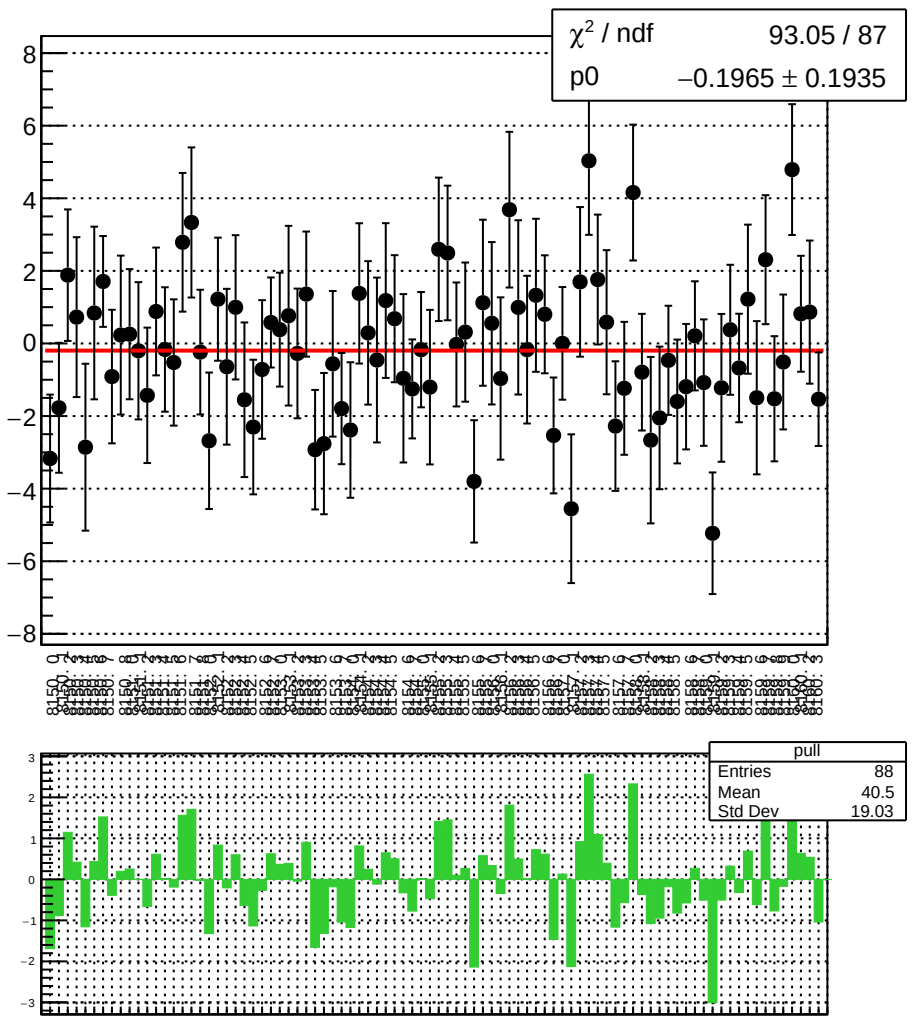

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.05 / 87
p0 −0.1965 ± 0.1935
pull
Entries 88
Mean 40.52
Std Dev 19.04
pull1D
Entries 88
Mean 0.01476
Std Dev 1.028

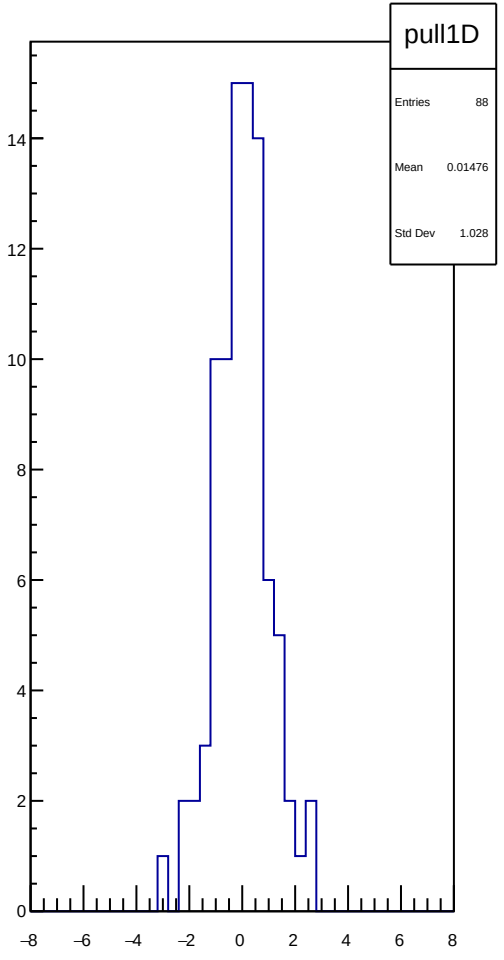

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.517e+04 / 87
p0 175.8 ± 0.1368
240
220
200
180
160
140
120

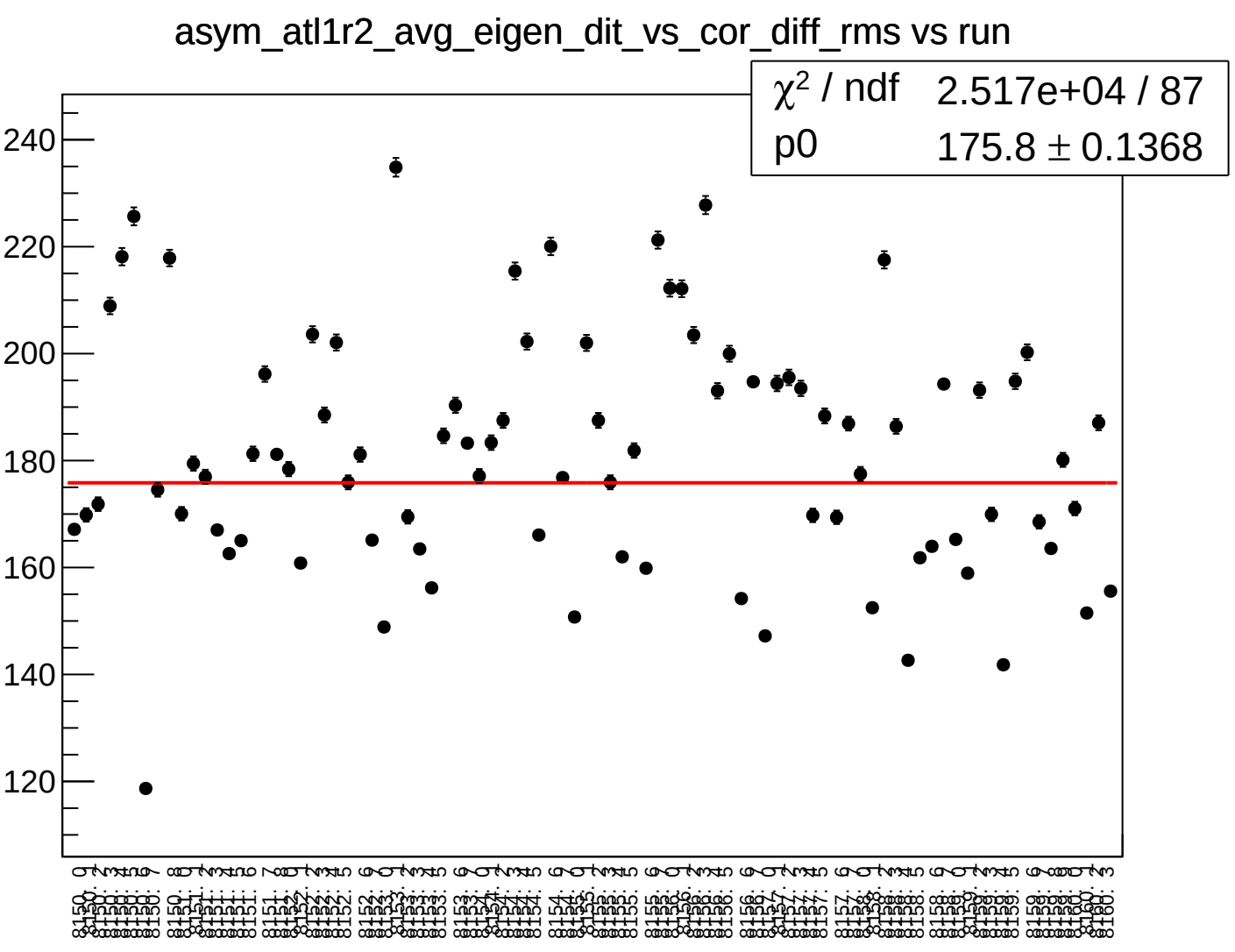

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.3 / 87
p0 −2.619e−05 ± 1.468e−05
pull
Entries 88
Mean −4614
Std Dev 0

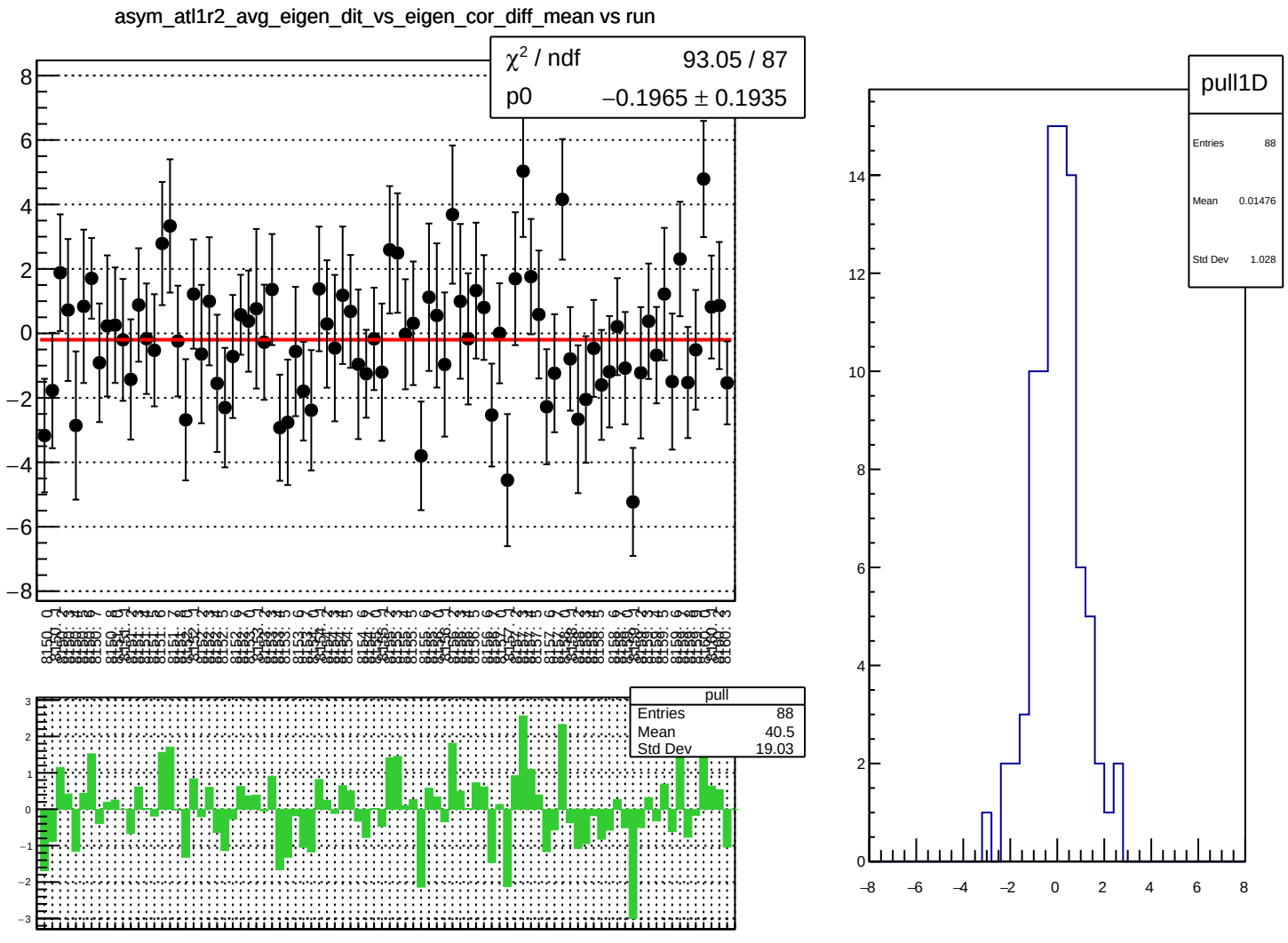

pull1D
Entries 88
Mean 0.0003259
Std Dev 1.073

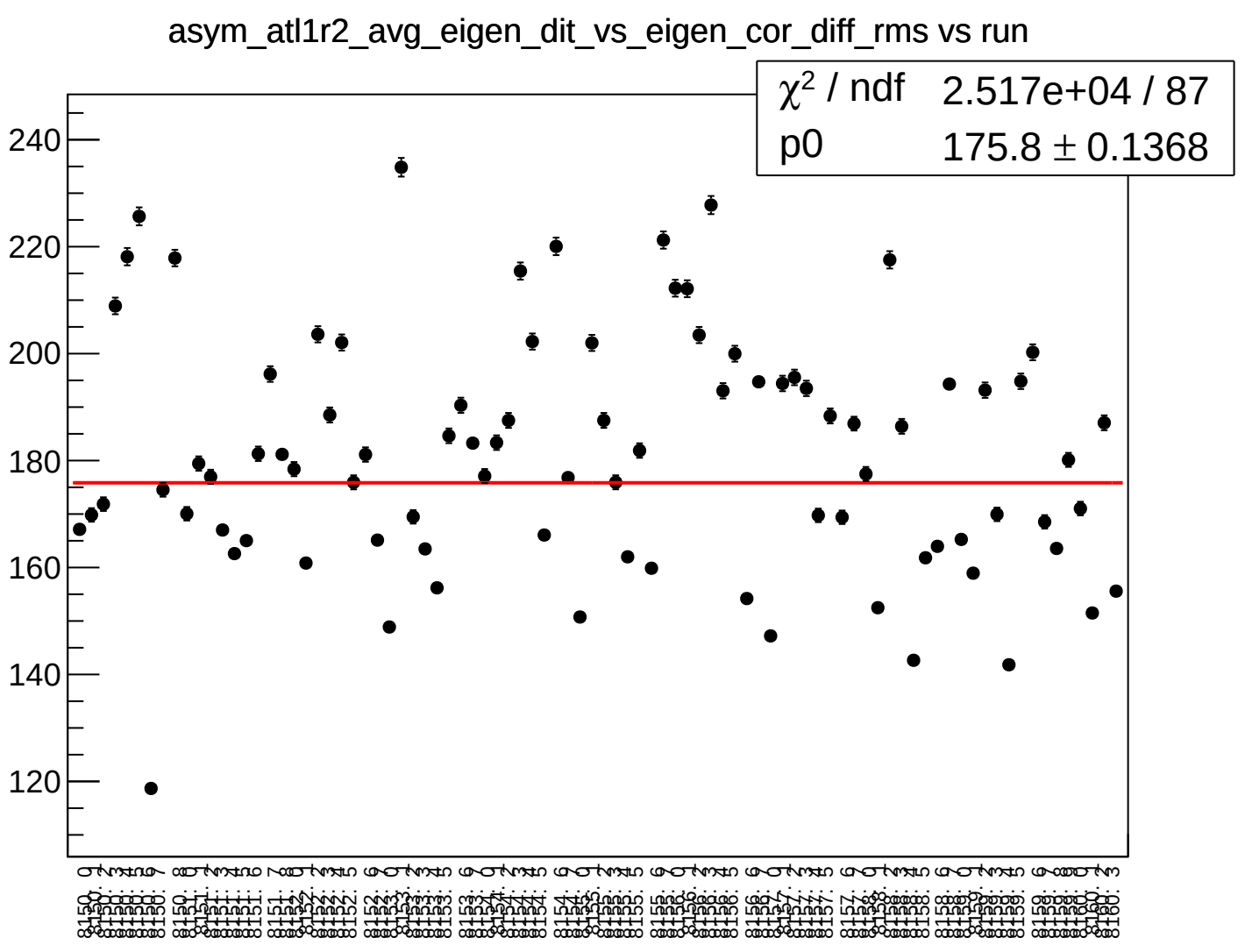

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 987.3 / 87
p0 0.01344 ± 1.038e−05
0.0145
0.014
0.0135
0.013
0.0125

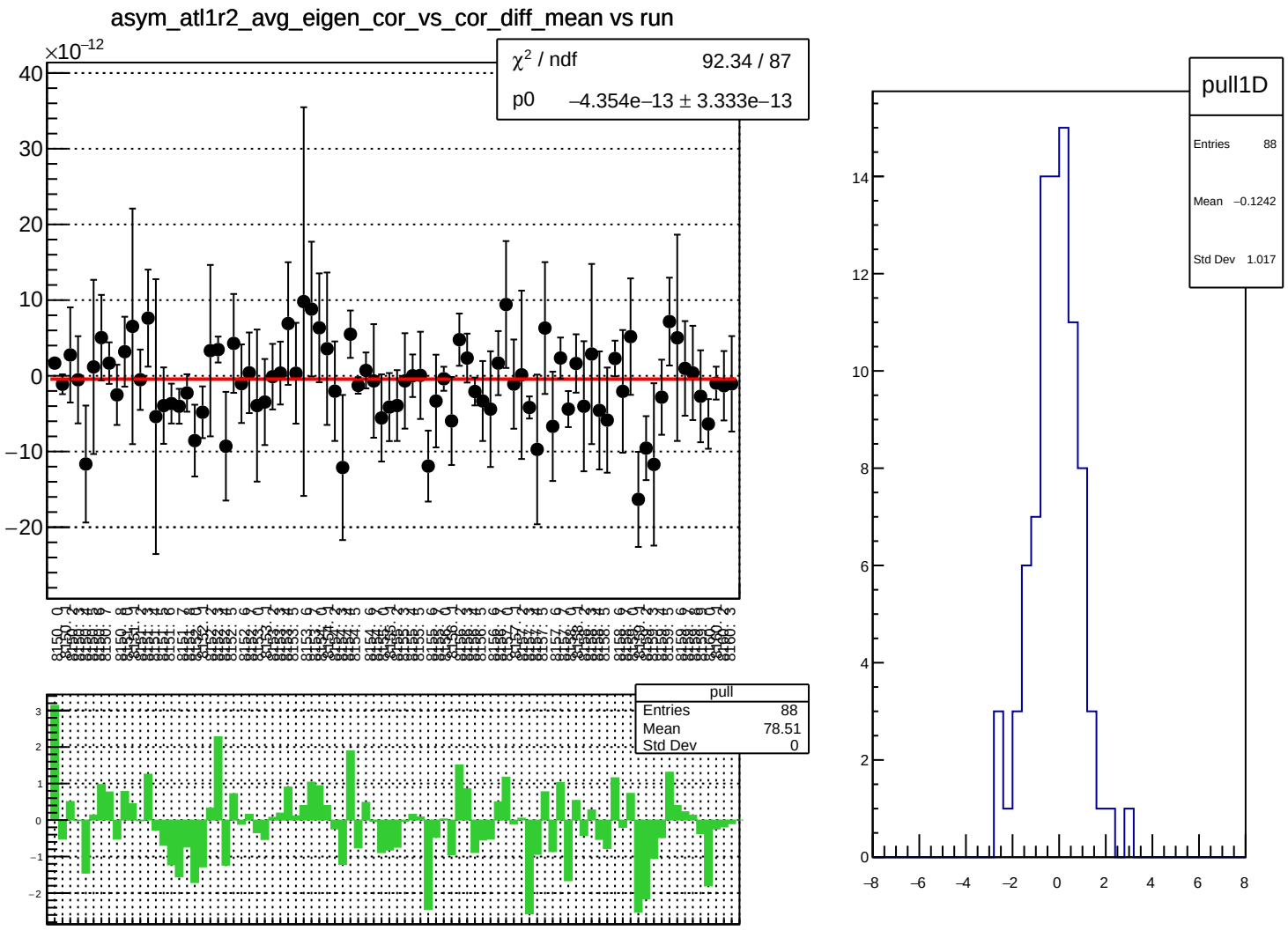

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.05 / 87
p0 −0.1965 ± 0.1935
pull
Entries 88
Mean 40.5
Std Dev 19.03

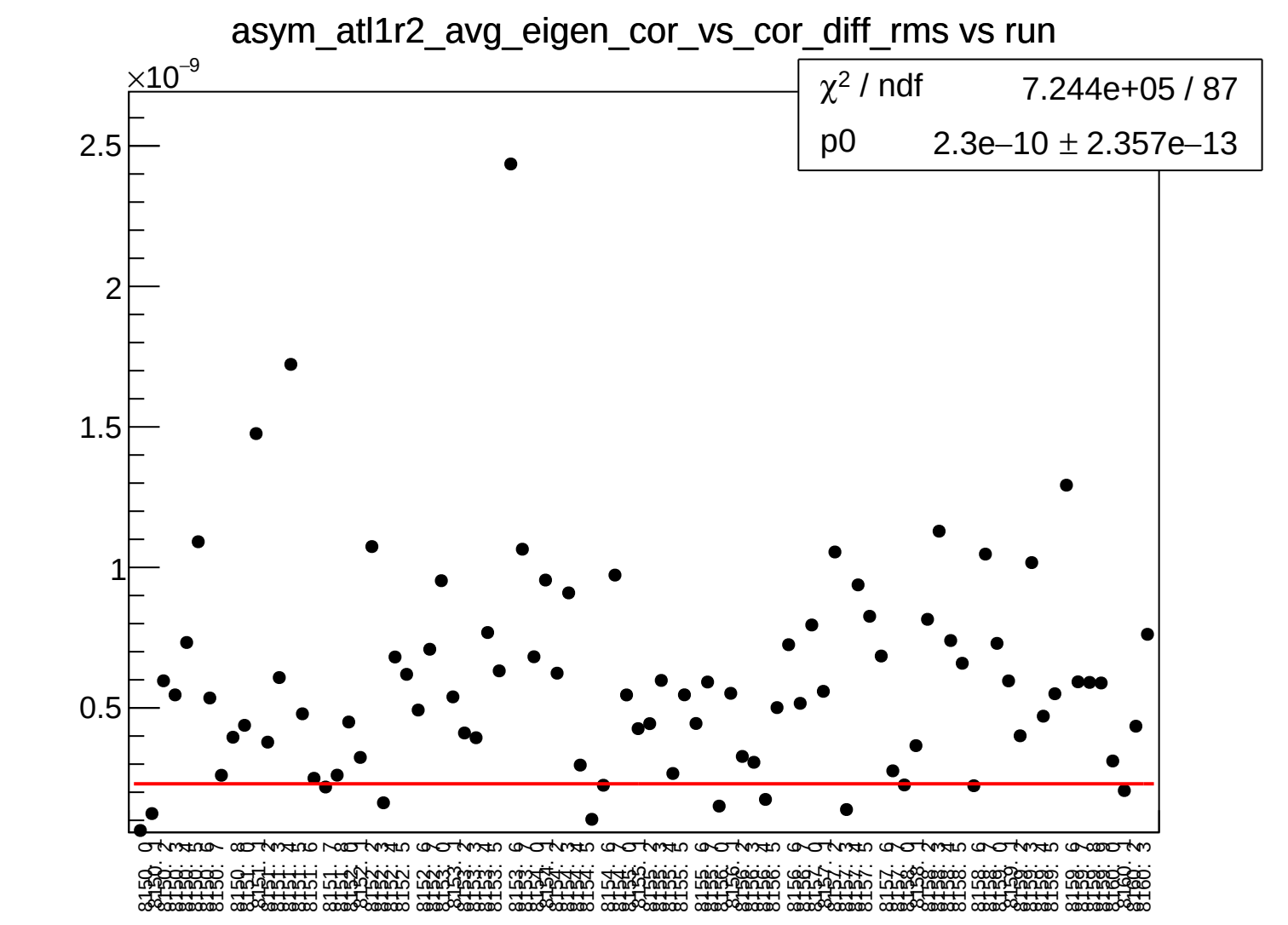

pull1D
Entries 88
Mean 0.01476
Std Dev 1.028

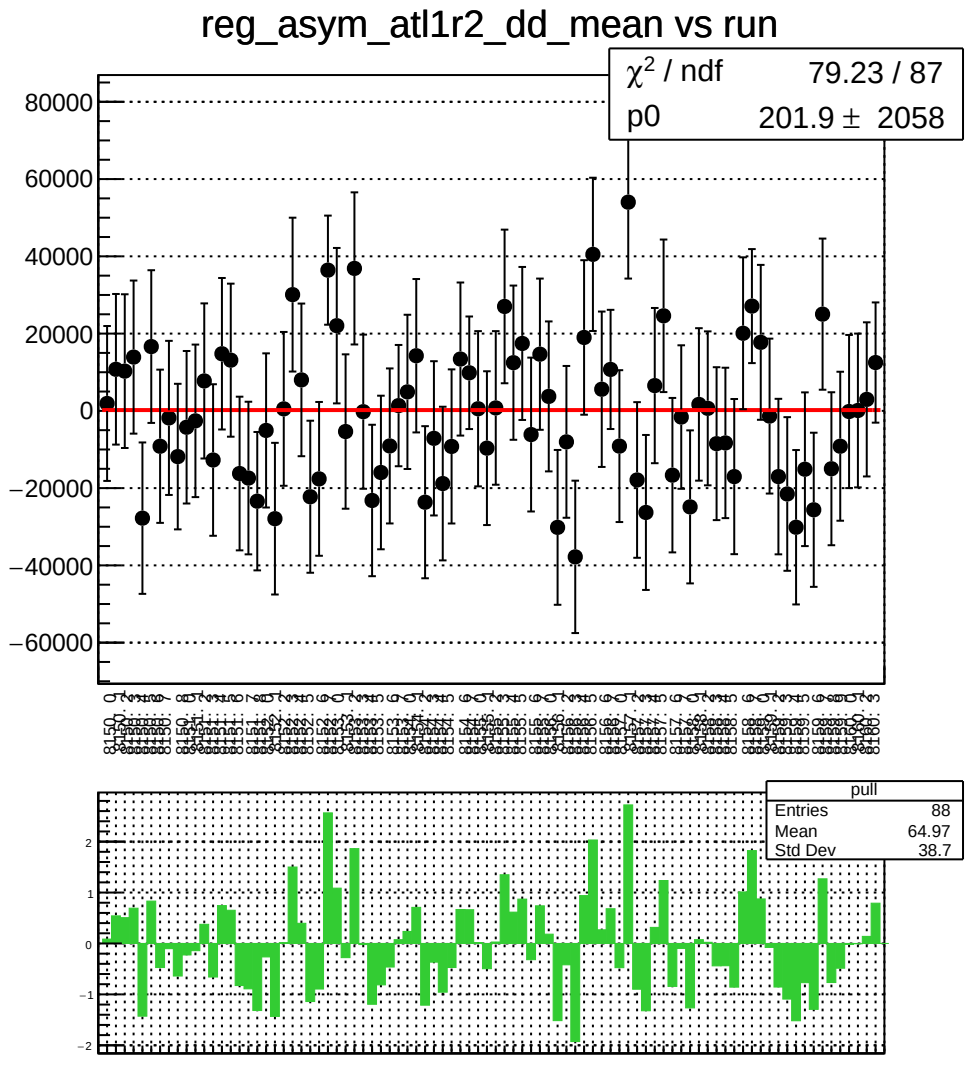

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.517e+04 / 87
p0 175.8 ± 0.1368
240
220
200
180
160
140
120

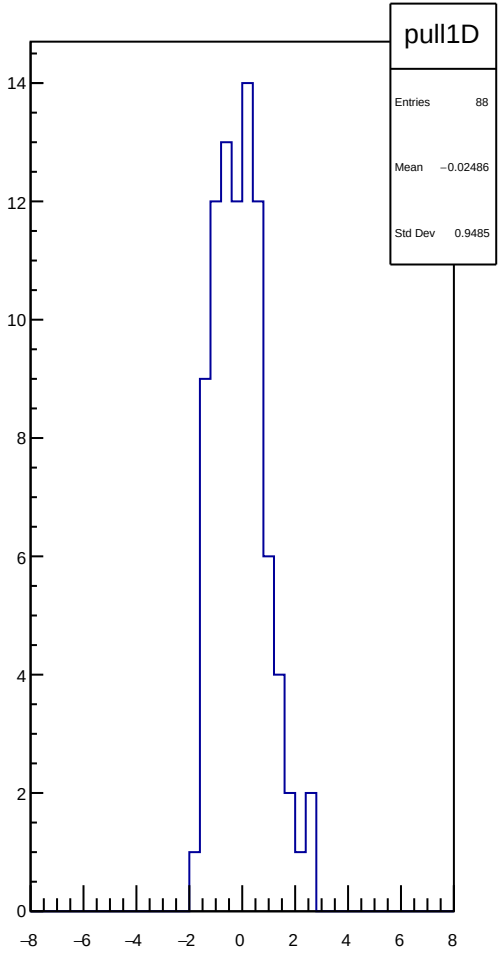

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.05 / 87
p0 −0.1965 ± 0.1935
pull
Entries 88
Mean 40.5
Std Dev 19.03
pull1D
Entries 88
Mean 0.01476
Std Dev 1.028

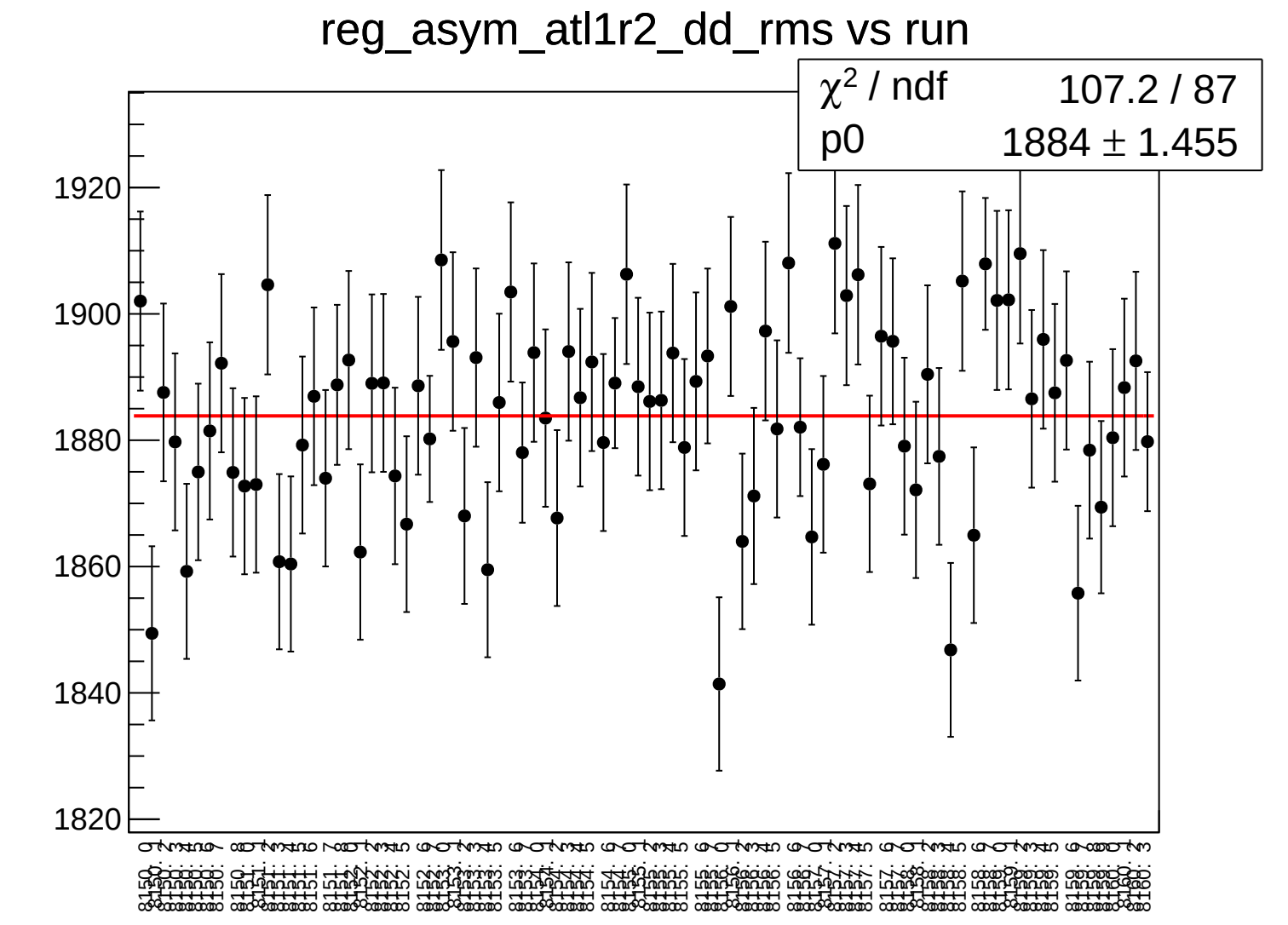

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.517e+04 / 87
p0 175.8 ± 0.1368
240
220
200
180
160
140
120

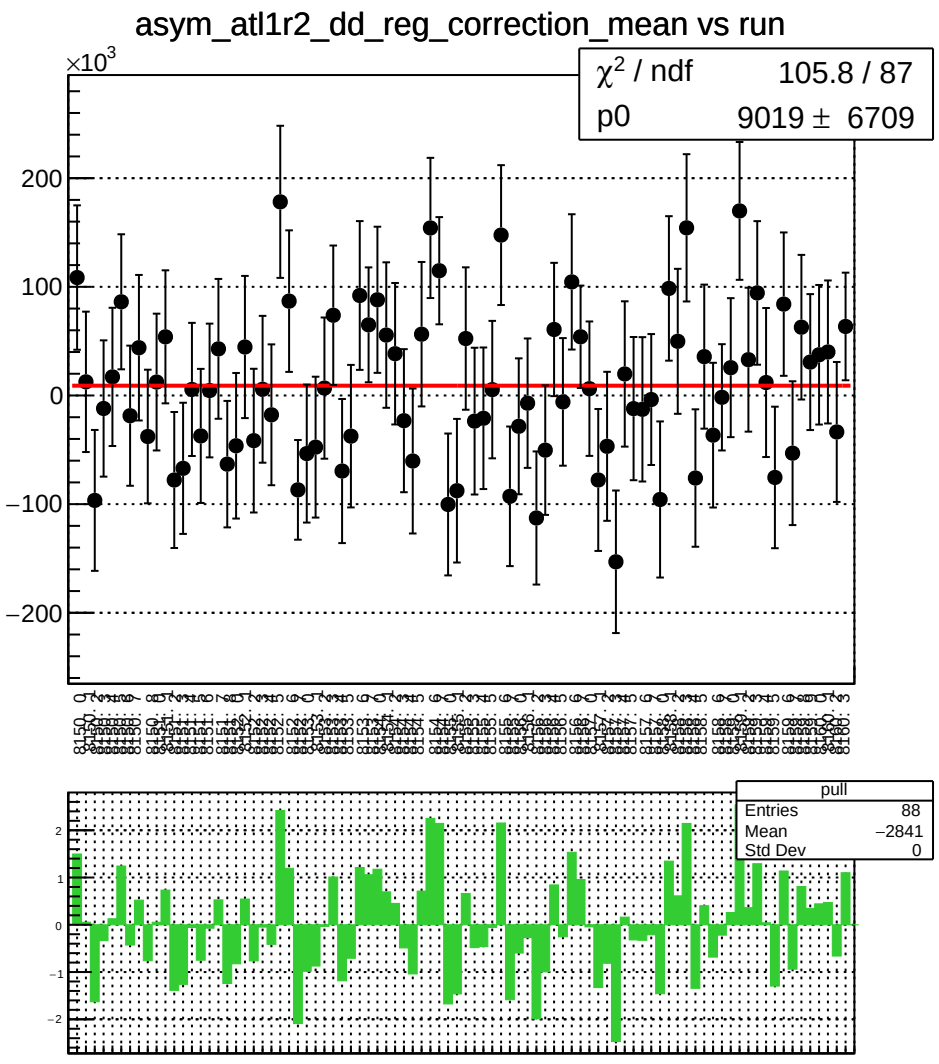

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.34 / 87
p0 −4.354e−13 ± 3.333e−13
pull
Entries 88
Mean 78.51
Std Dev 0
pull1D
Entries 88
Mean −0.1242
Std Dev 1.017

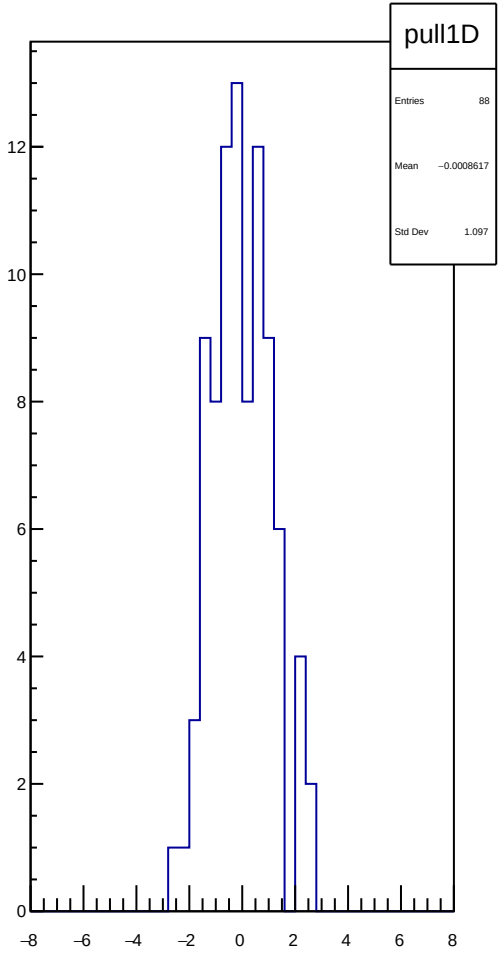

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.244e+05 / 87
p0 2.3e−10 ± 2.357e−13
2.5
2
1.5
1
0.5

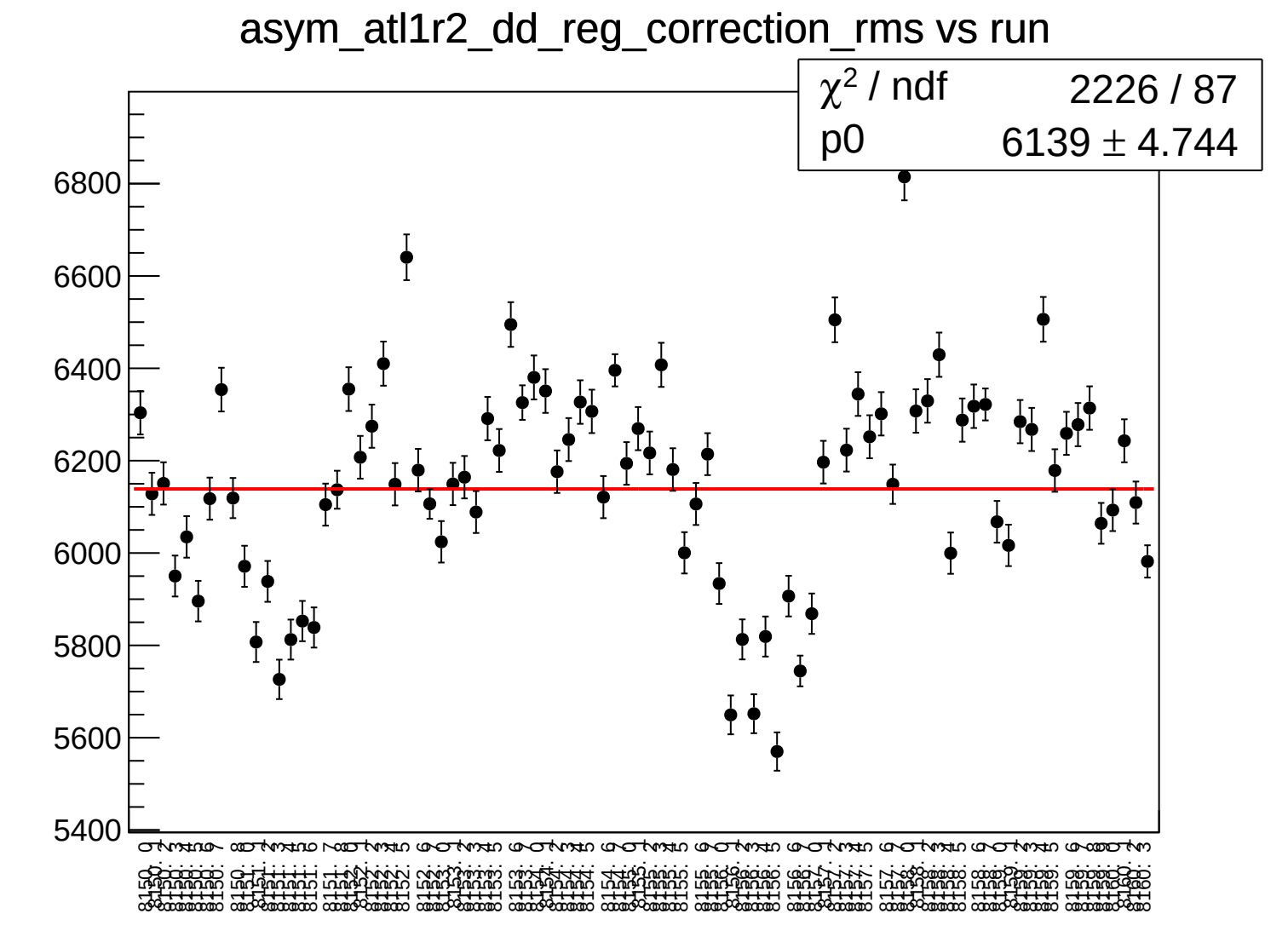

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 79.23 / 87
p0 201.9 ± 2058
pull
Entries 88
Mean 64.97
Std Dev 38.7

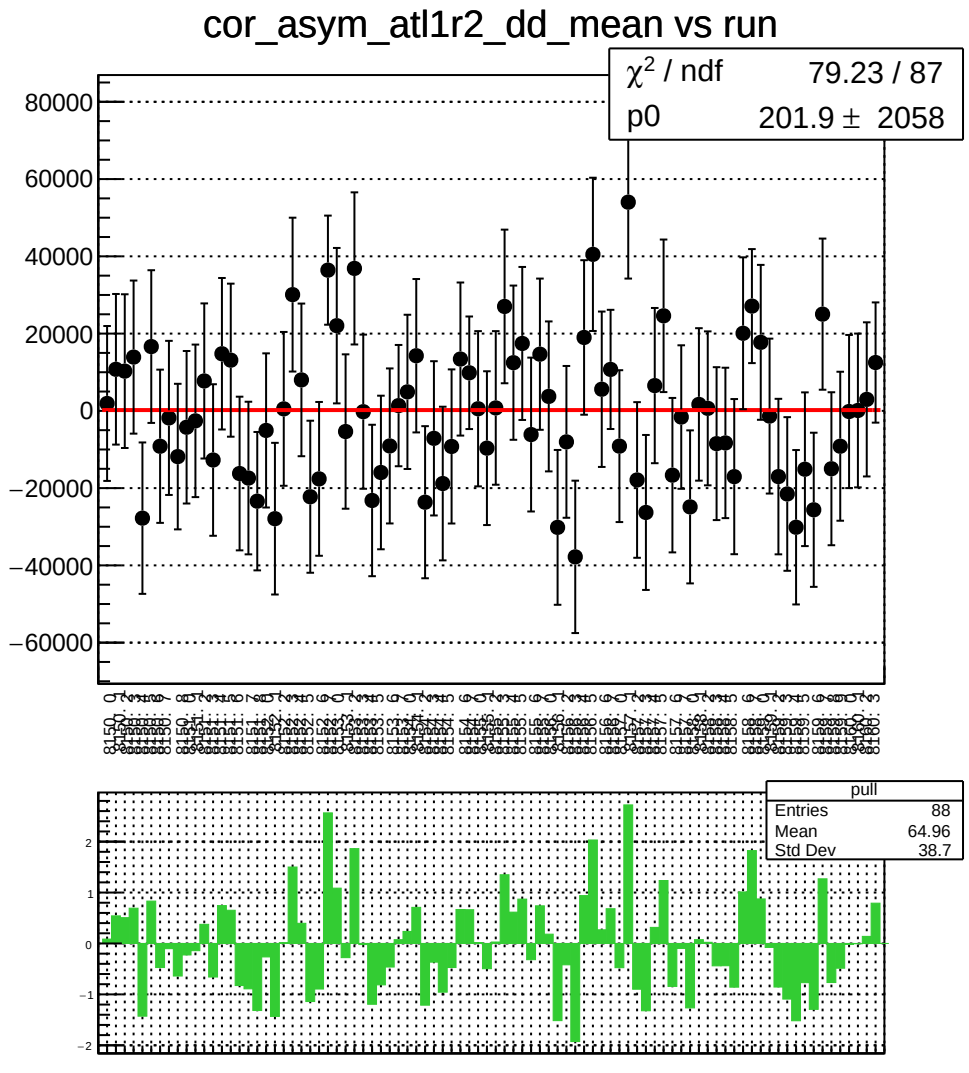

pull1D
Entries 88
Mean −0.02486
Std Dev 0.9485

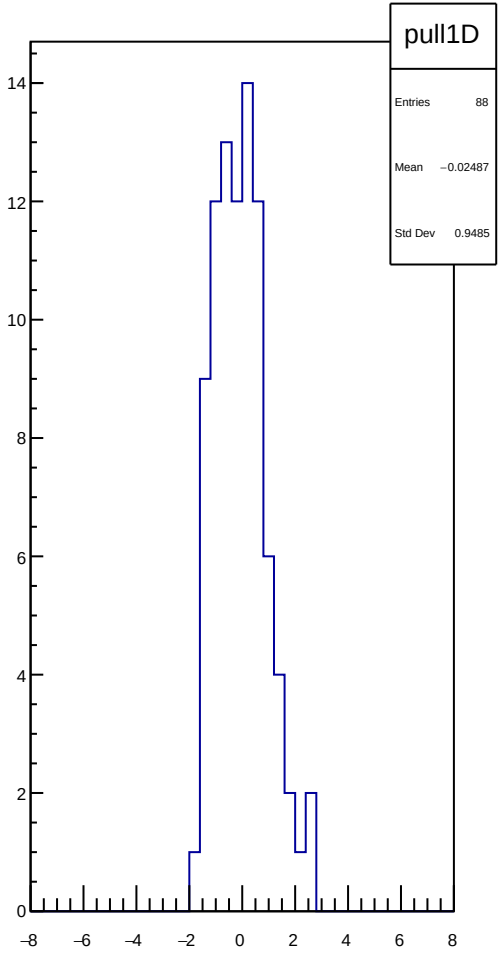

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 107.2 / 87
p0 1884 ± 1.455
1920
1900
1880
1860
1840
1820

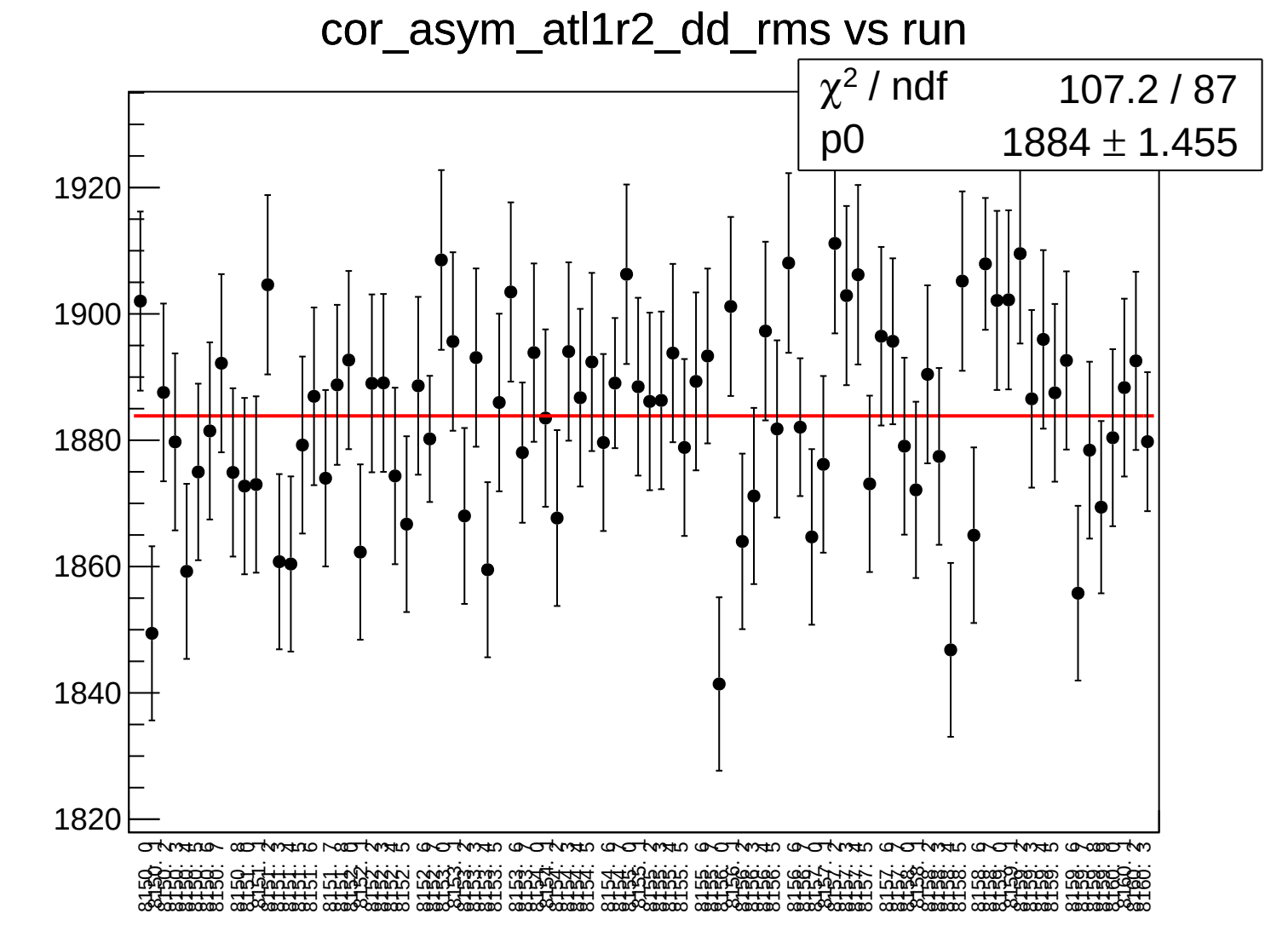

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 105.8 / 87
p0 9019 ± 6709
200
100
0
−100
−200
pull
Entries 88
Mean −2841
Std Dev 0
2
1
0
−1
−2

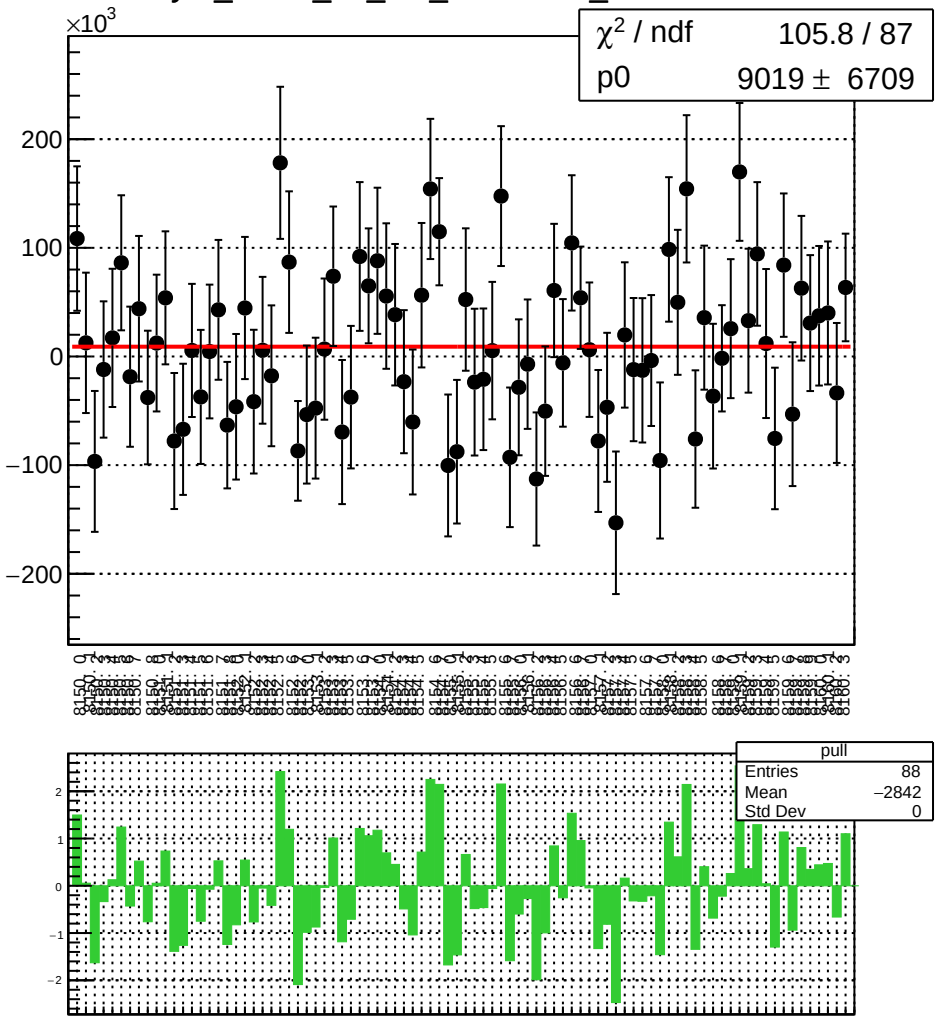

pull1D
Entries 88
Mean −0.0008617
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

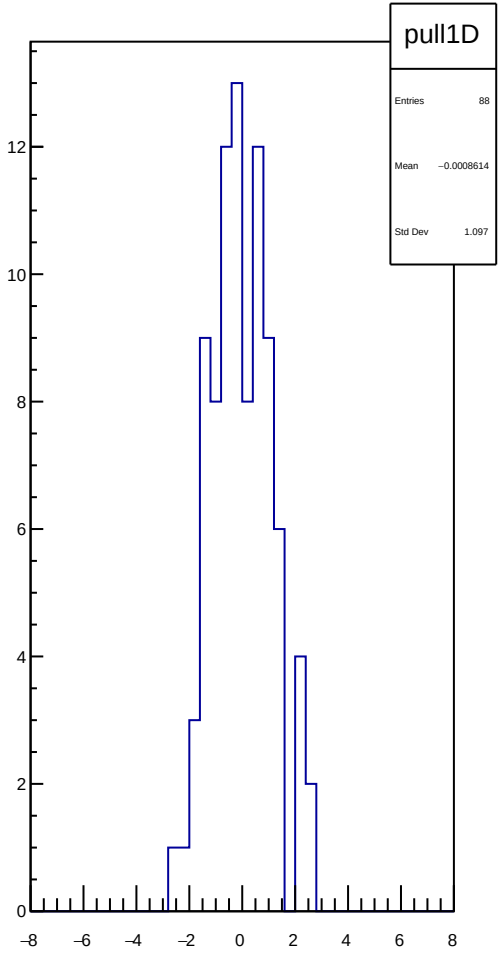

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 2226 / 87
p0 6139 ± 4.744
6800
6600
6400
6200
6000
5800
5600
5400

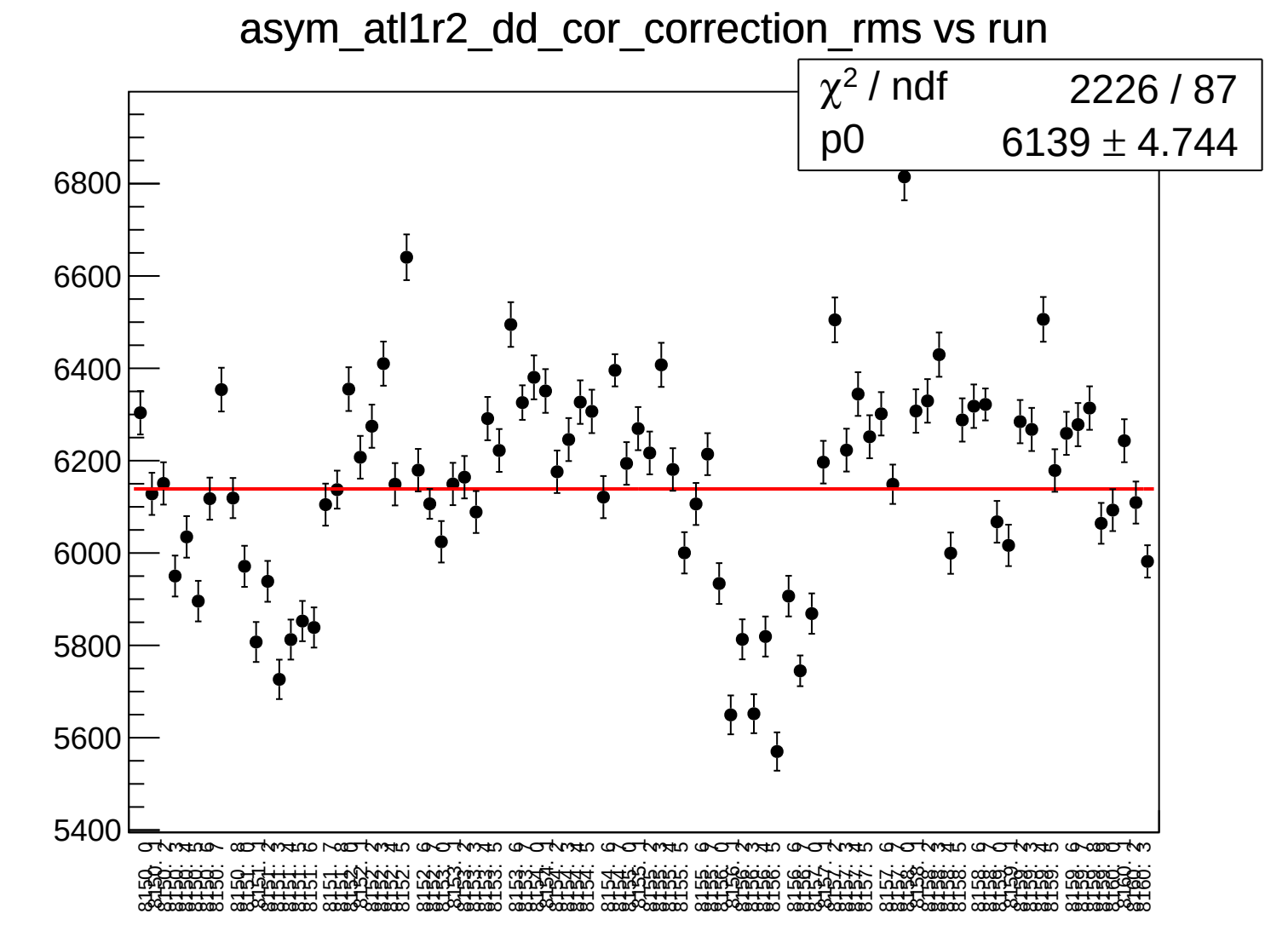

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 79.23 / 87
p0 201.9 ± 2058
pull
Entries 88
Mean 64.96
Std Dev 38.7

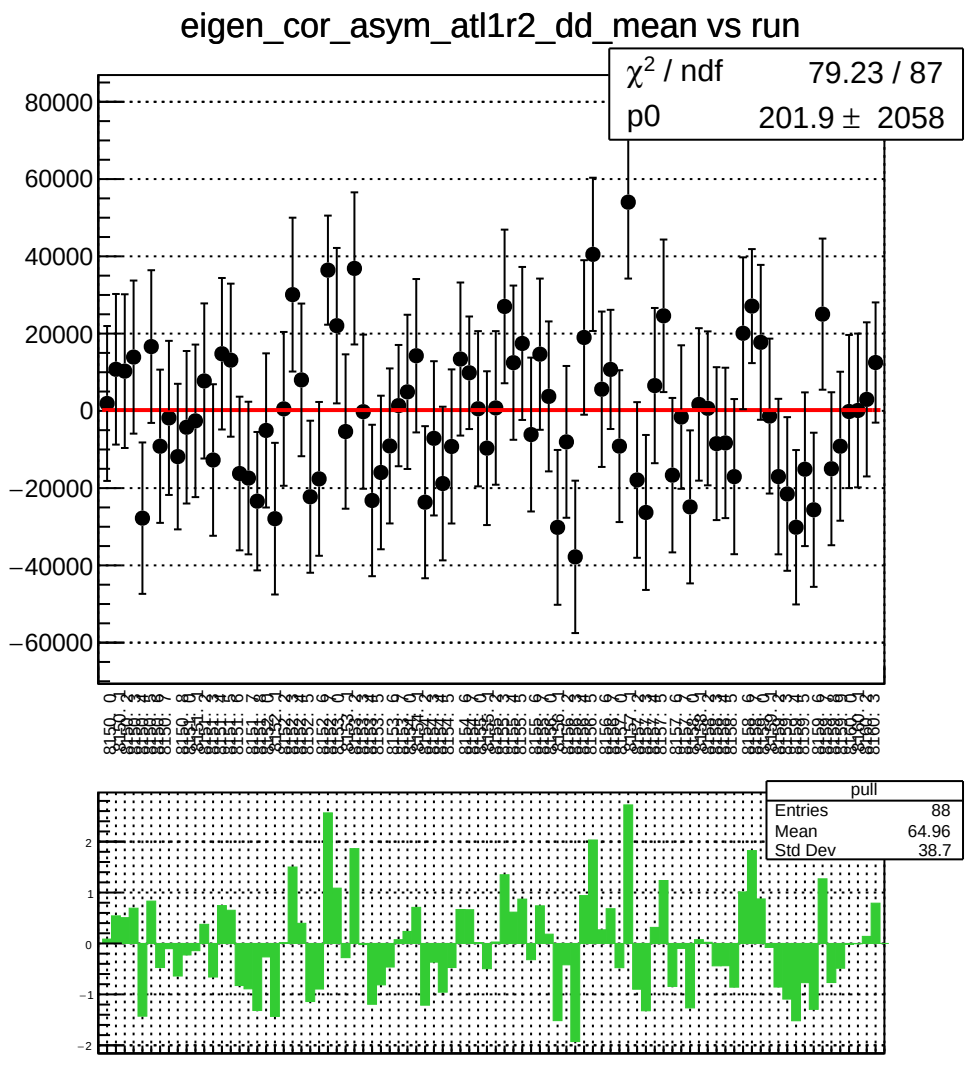

pull1D
Entries 88
Mean −0.02487
Std Dev 0.9485

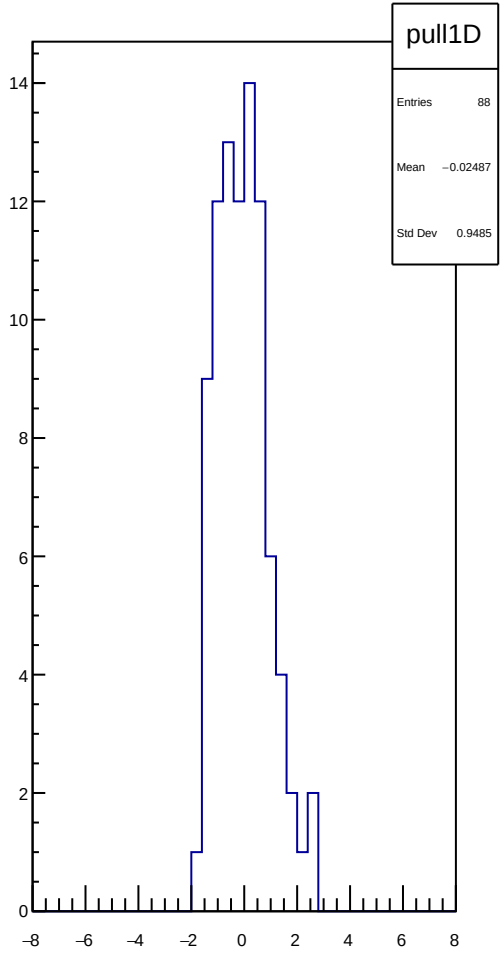

cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 107.2 / 87
p0 1884 ± 1.455
1920
1900
1880
1860
1840
1820

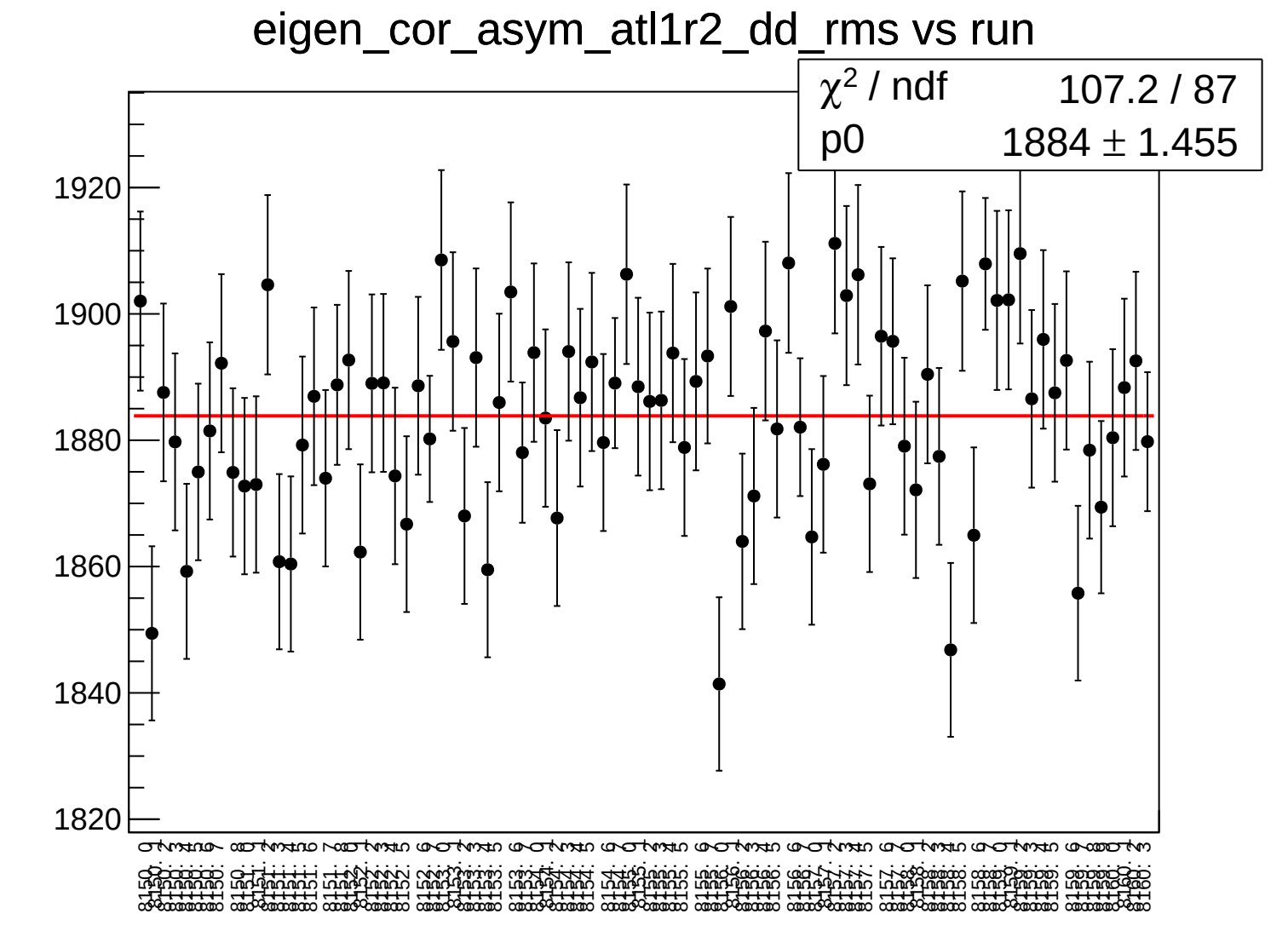

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 105.8 / 87
p0 9019 ± 6709
200
100
0
−100
−200
pull
Entries 88
Mean −2842
Std Dev 0
2
1
0
−1
−2

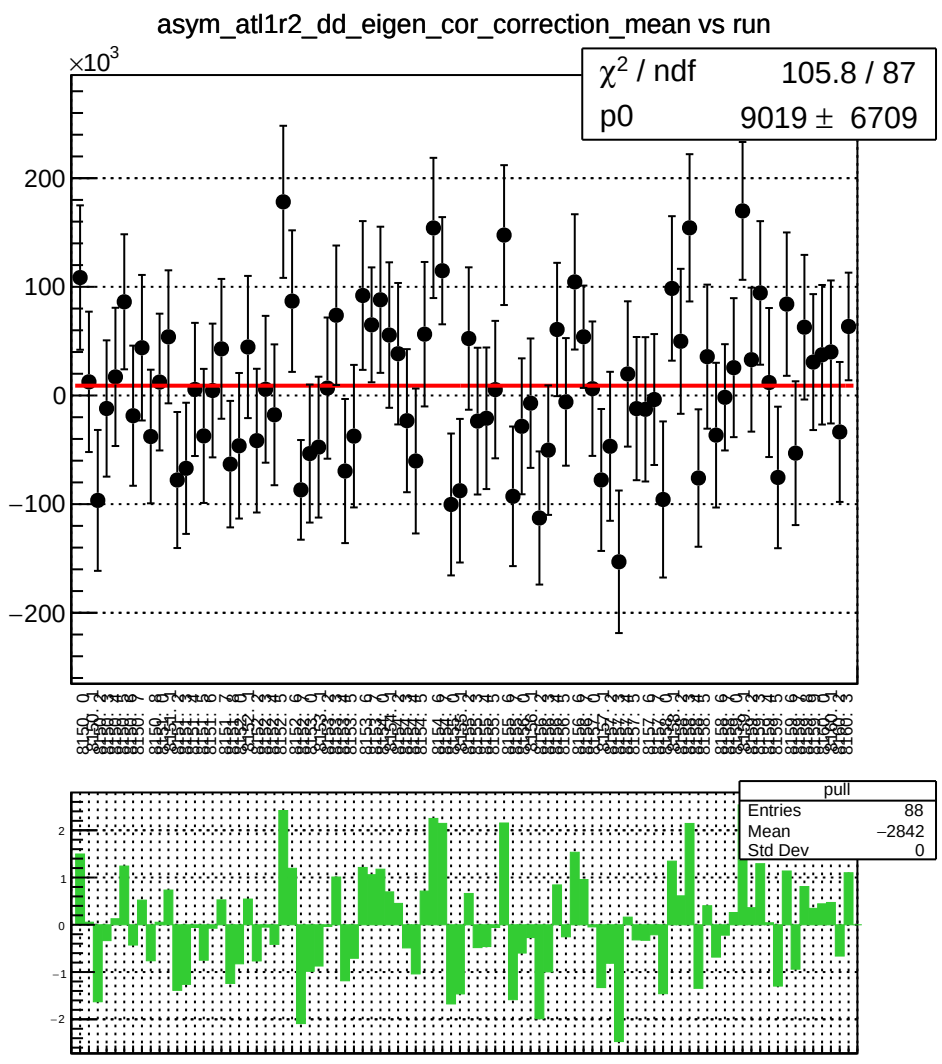

pull1D
Entries 88
Mean −0.0008614
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

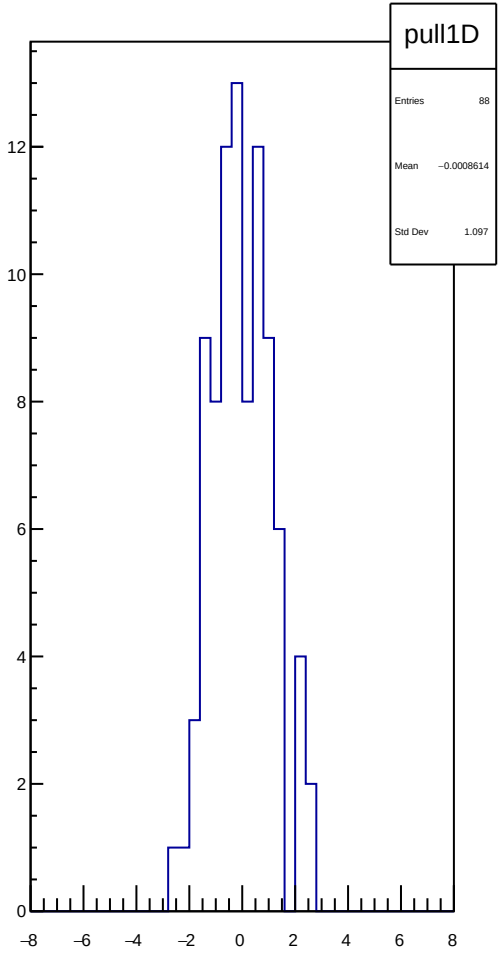

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 2226 / 87
p0 6139 ± 4.744
6800
6600
6400
6200
6000
5800
5600
5400

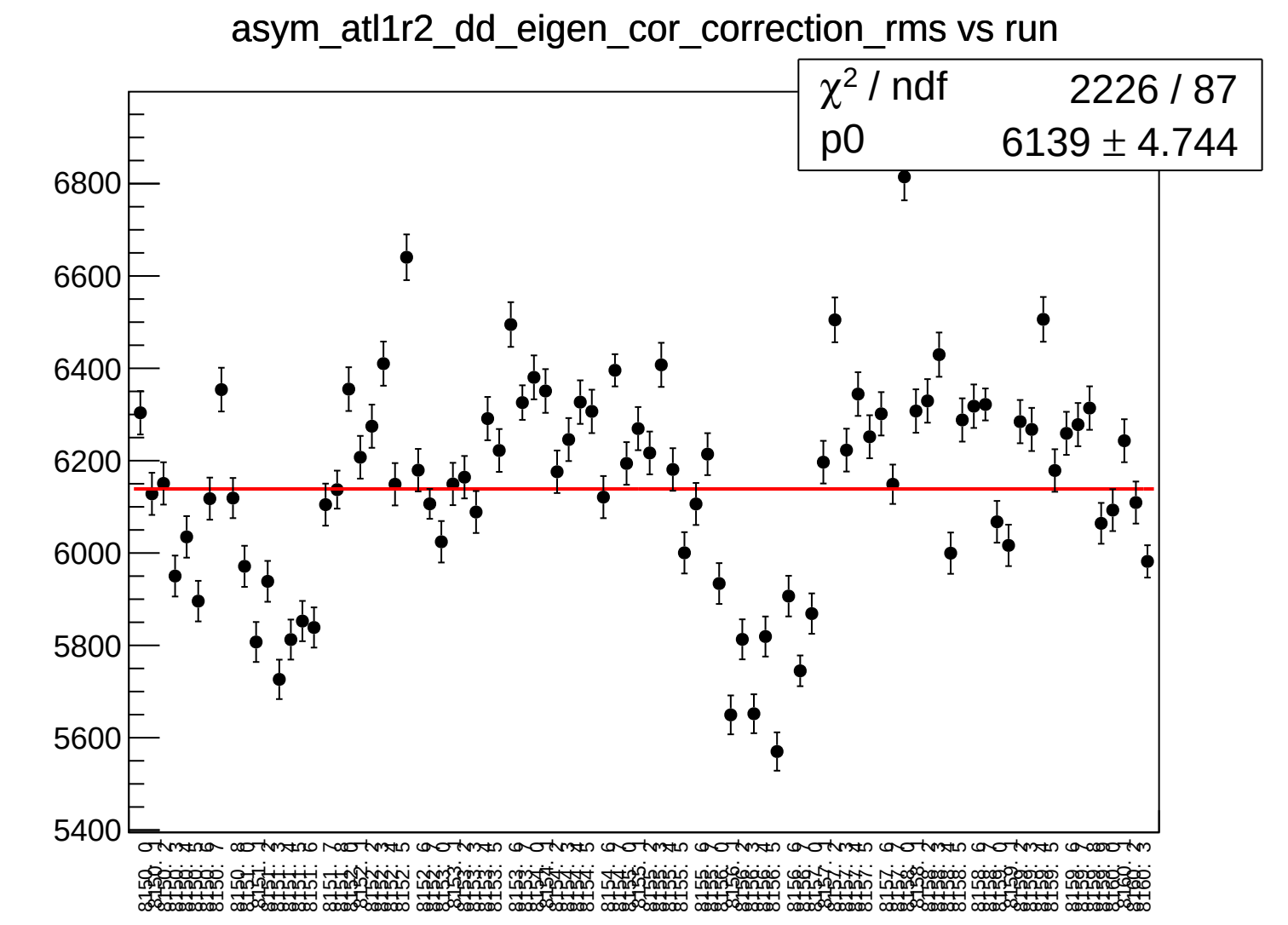

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 79.23 / 87
p0 201.9 ± 2058
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 64.96
Std Dev 38.7
2
1
0
−1
−2

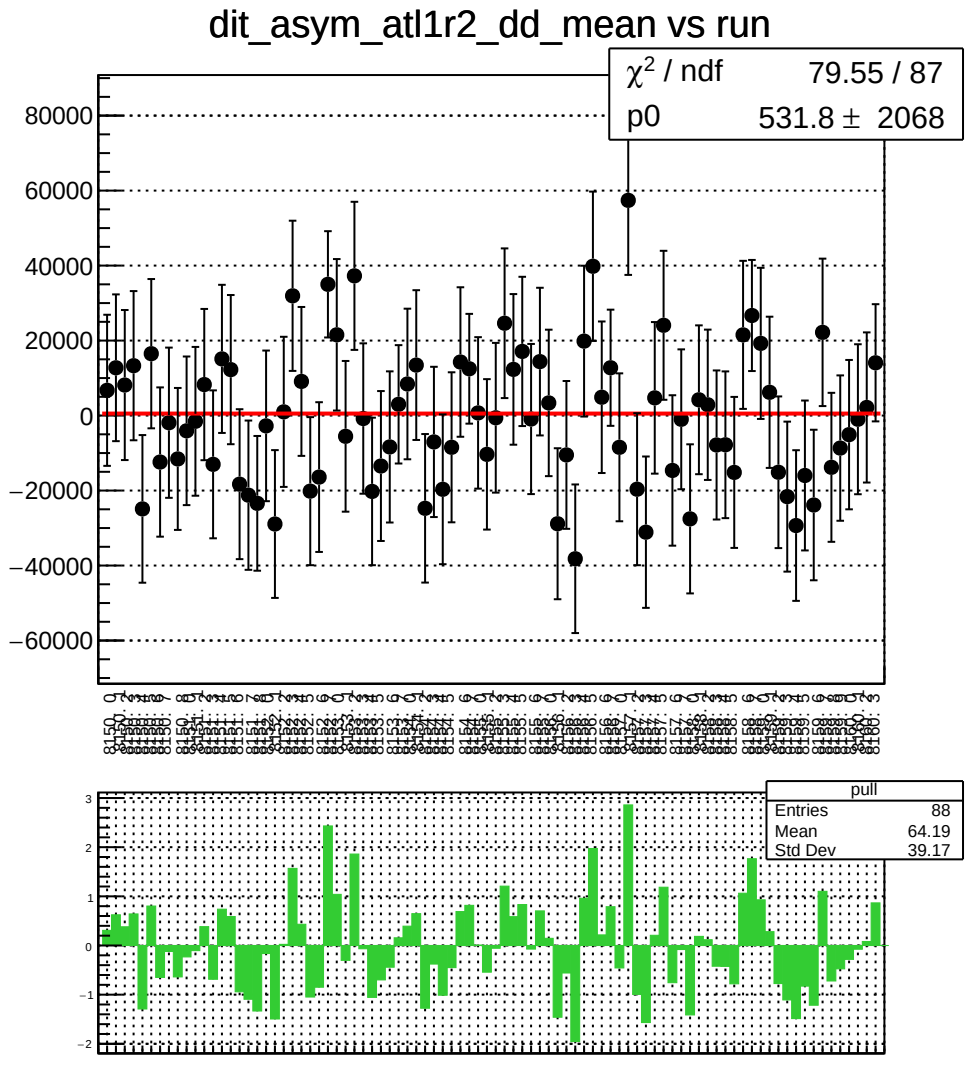

pull1D
Entries 88
Mean −0.02487
Std Dev 0.9485
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

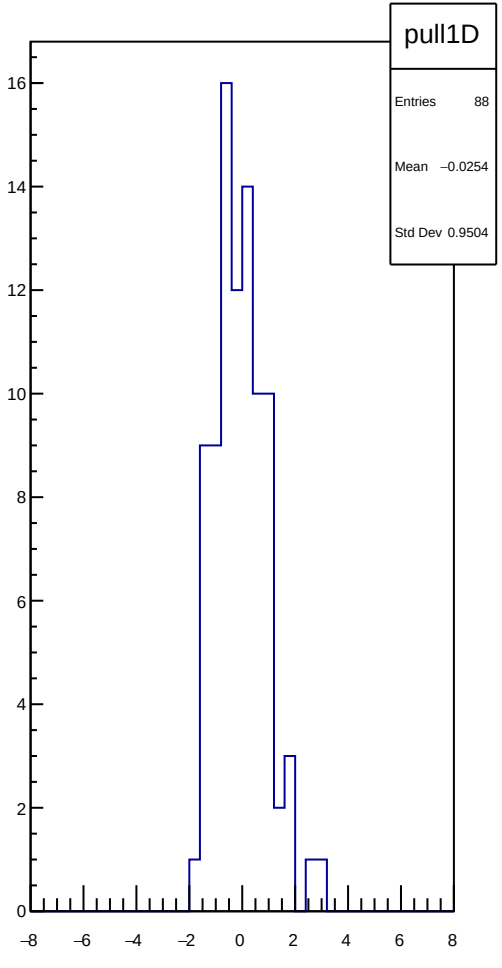

eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 107.2 / 87
p0 1884 ± 1.455
1920
1900
1880
1860
1840
1820

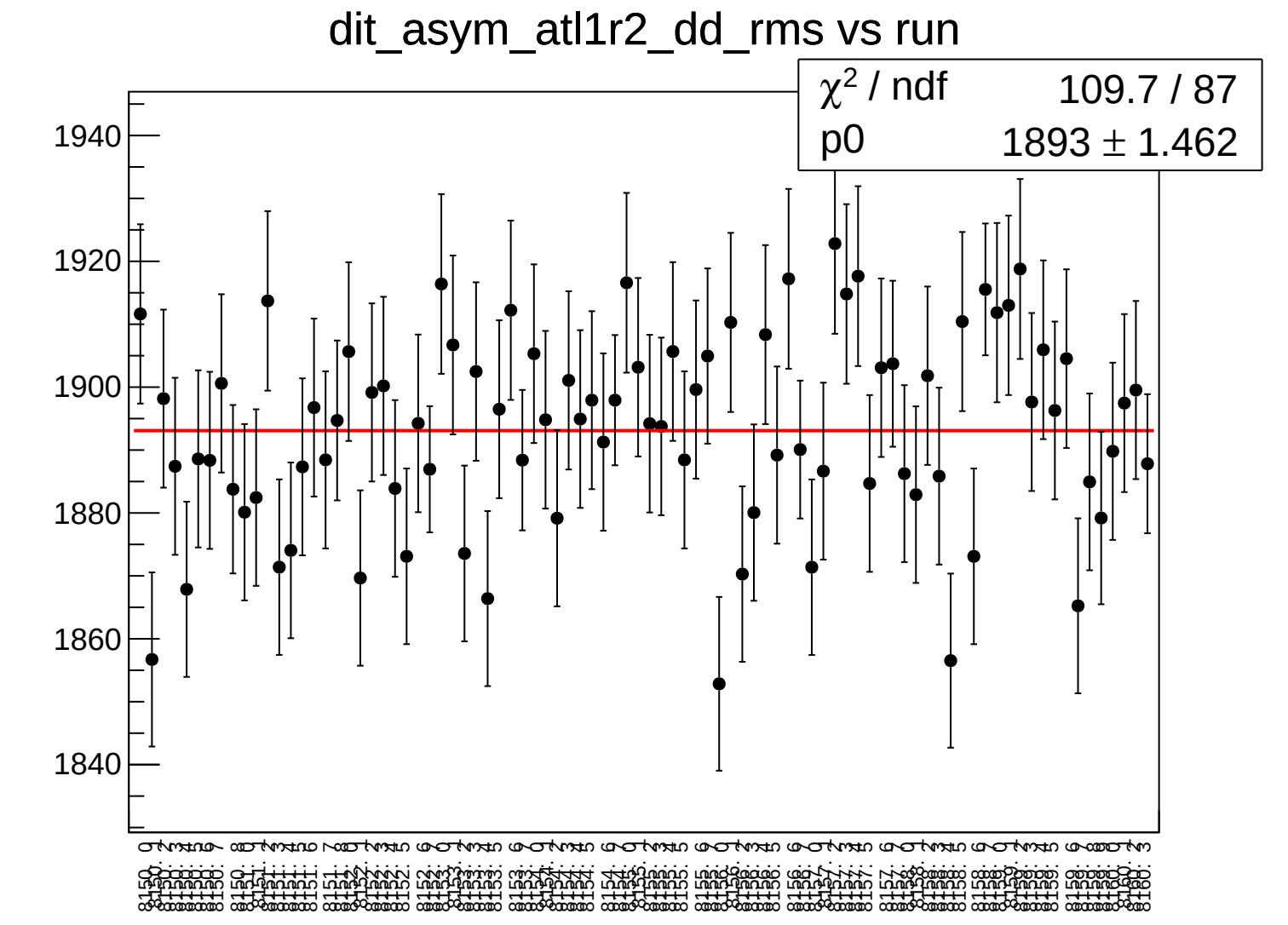

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 105.8 / 87
p0 9019 ± 6709
200
100
0
−100
−200
pull
Entries 88
Mean −2842
Std Dev 0
2
1
0
−1
−2

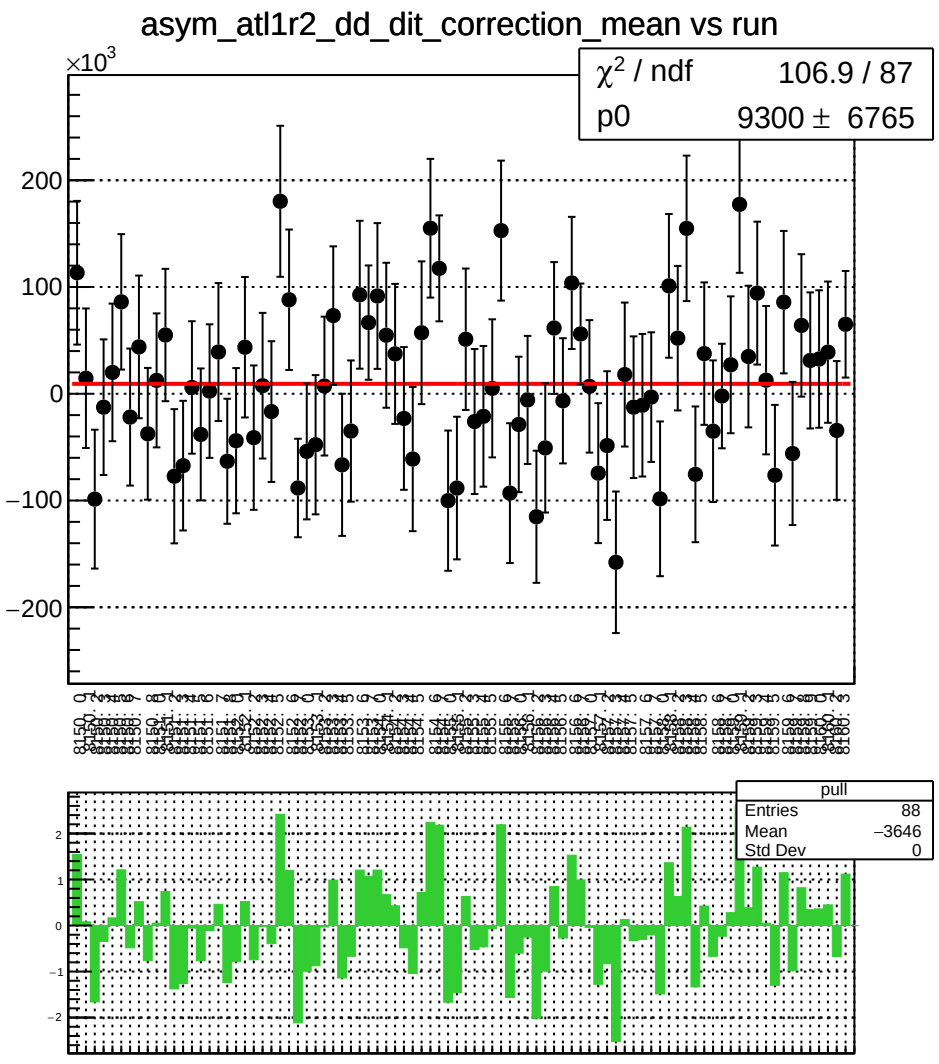

pull1D
Entries 88
Mean −0.0008614
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

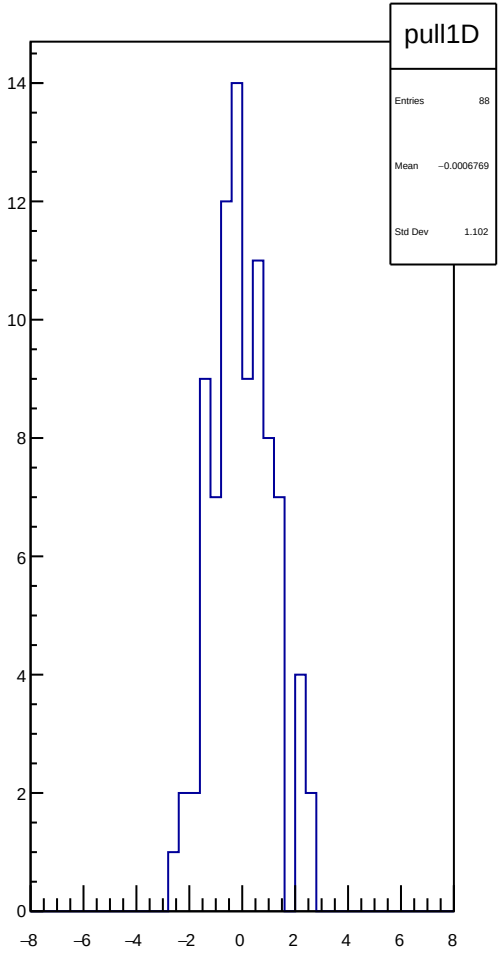

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2226 / 87
p0 6139 ± 4.744
6800
6600
6400
6200
6000
5800
5600
5400

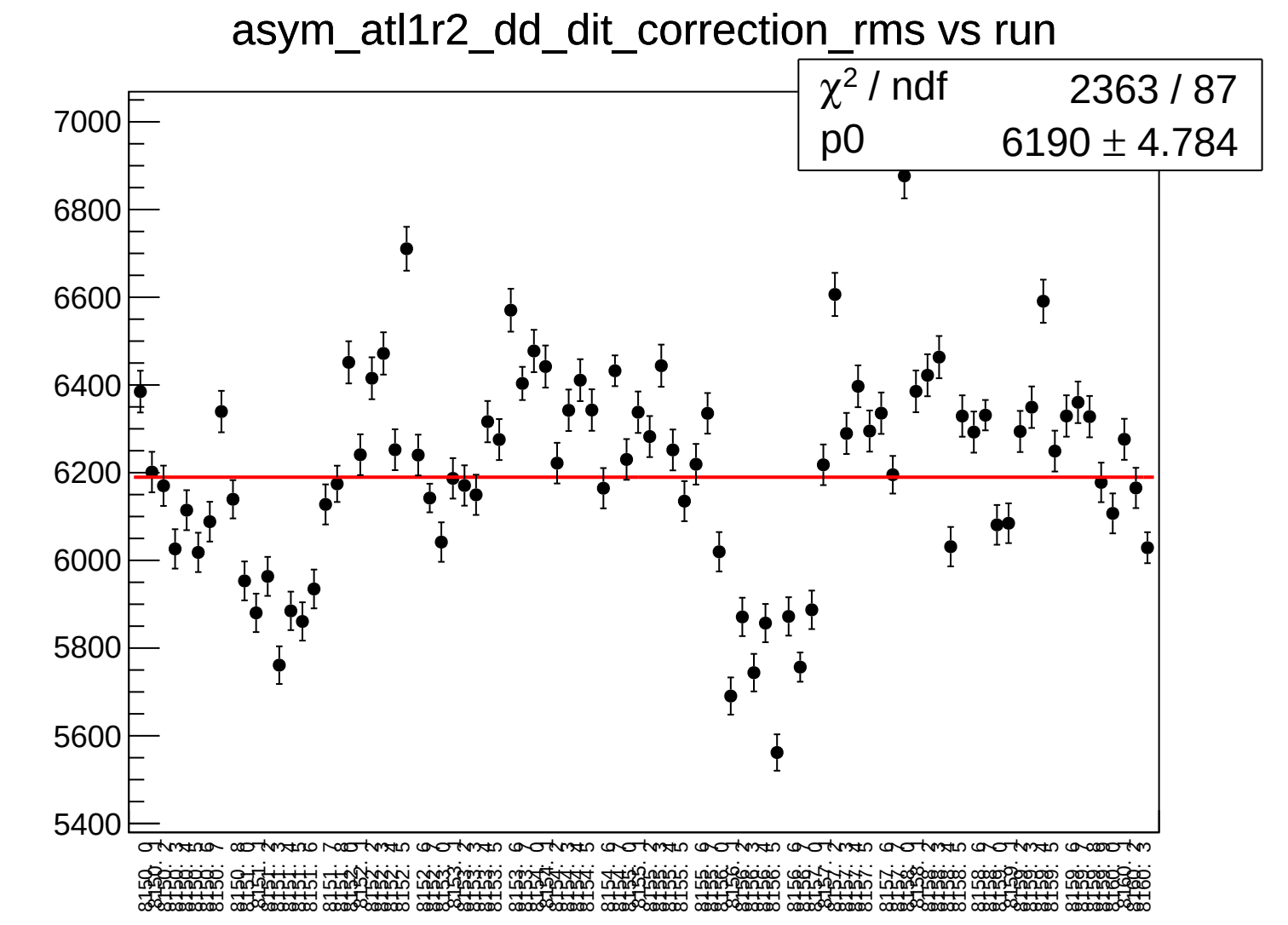

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 79.55 / 87
p0 531.8 ± 2068
pull
Entries 88
Mean 64.19
Std Dev 39.17

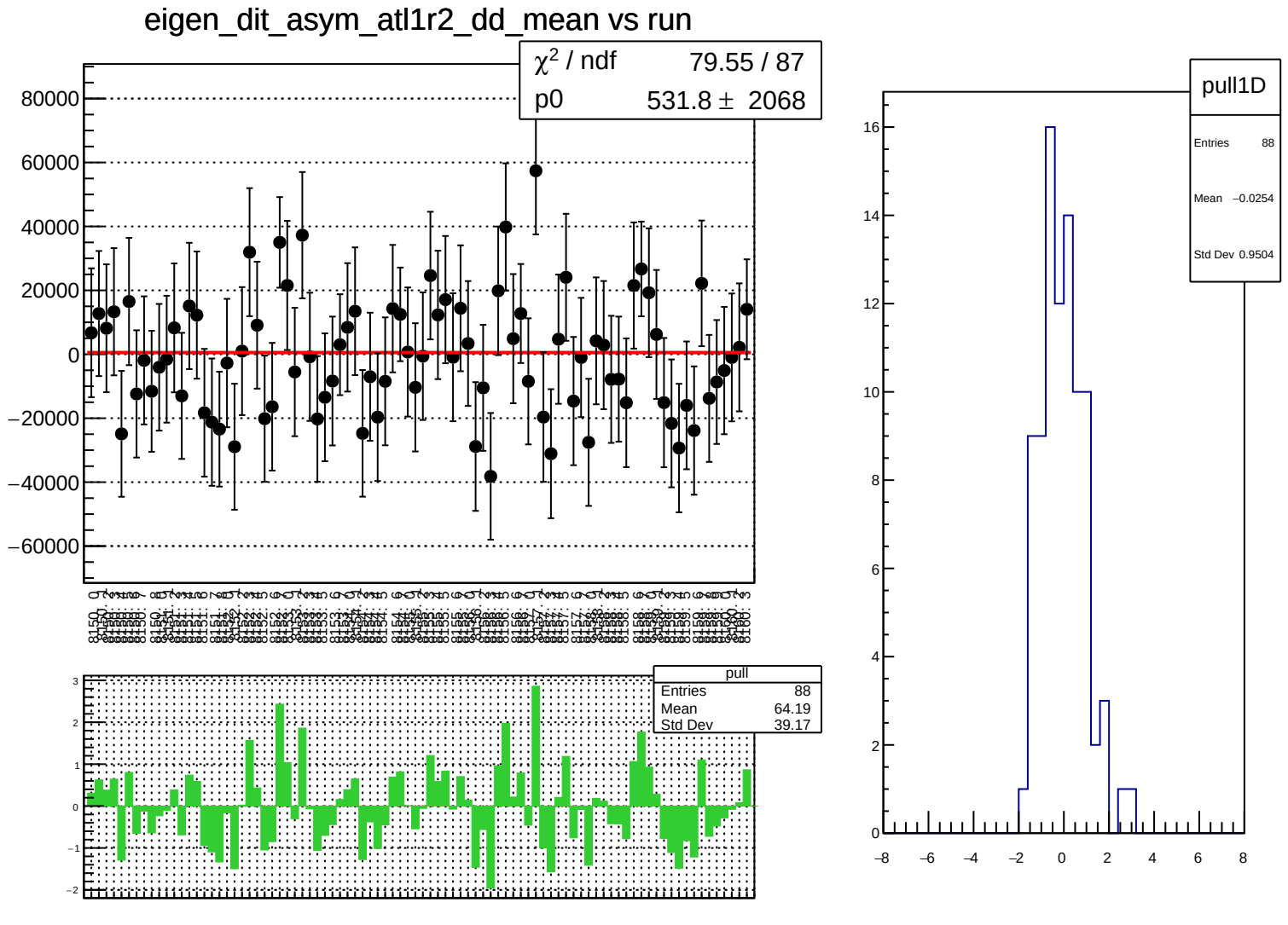

pull1D
Entries 88
Mean −0.0254
Std Dev 0.9504

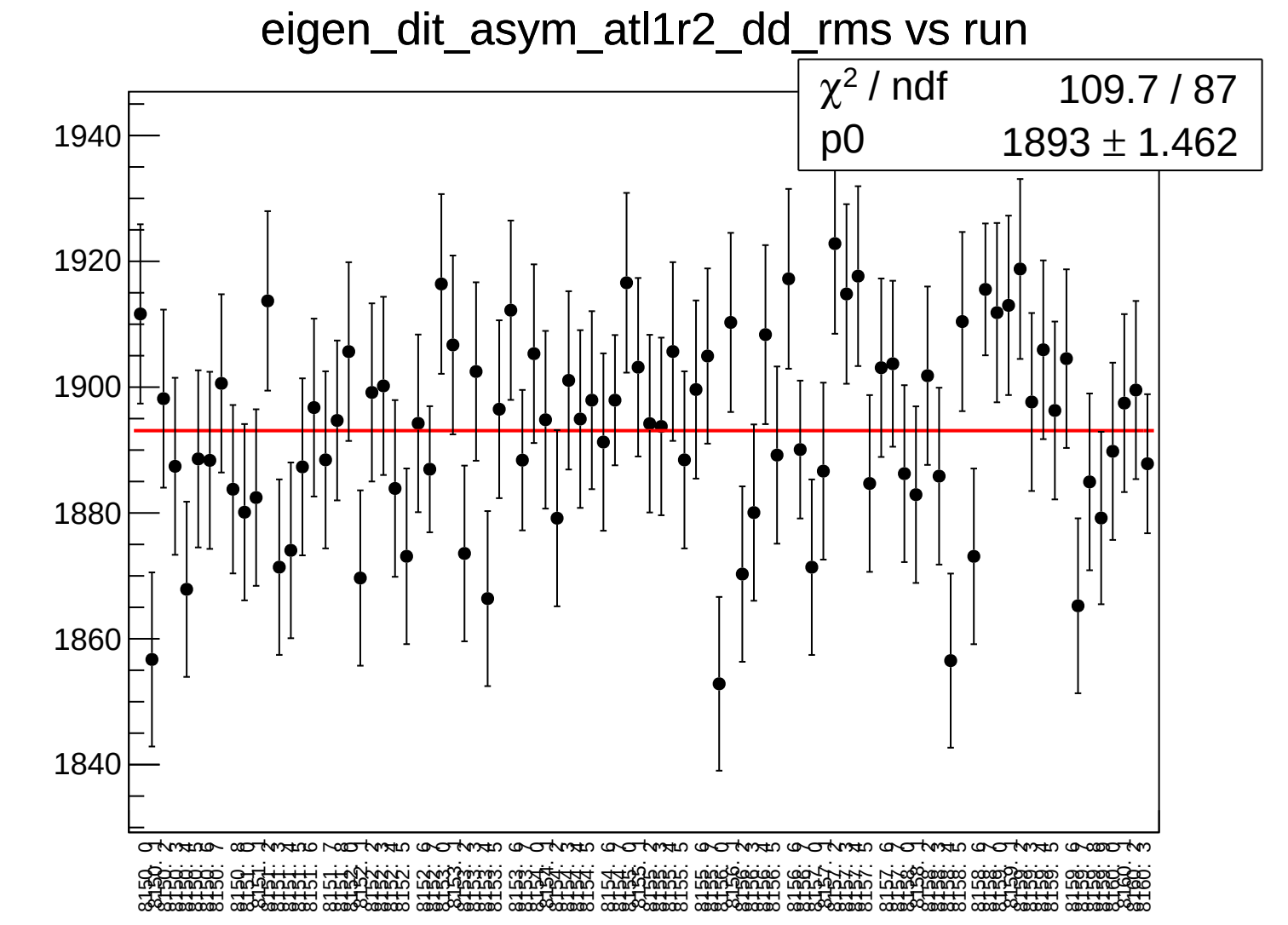

dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 109.7 / 87
p0 1893 ± 1.462
1940
1920
1900
1880
1860
1840

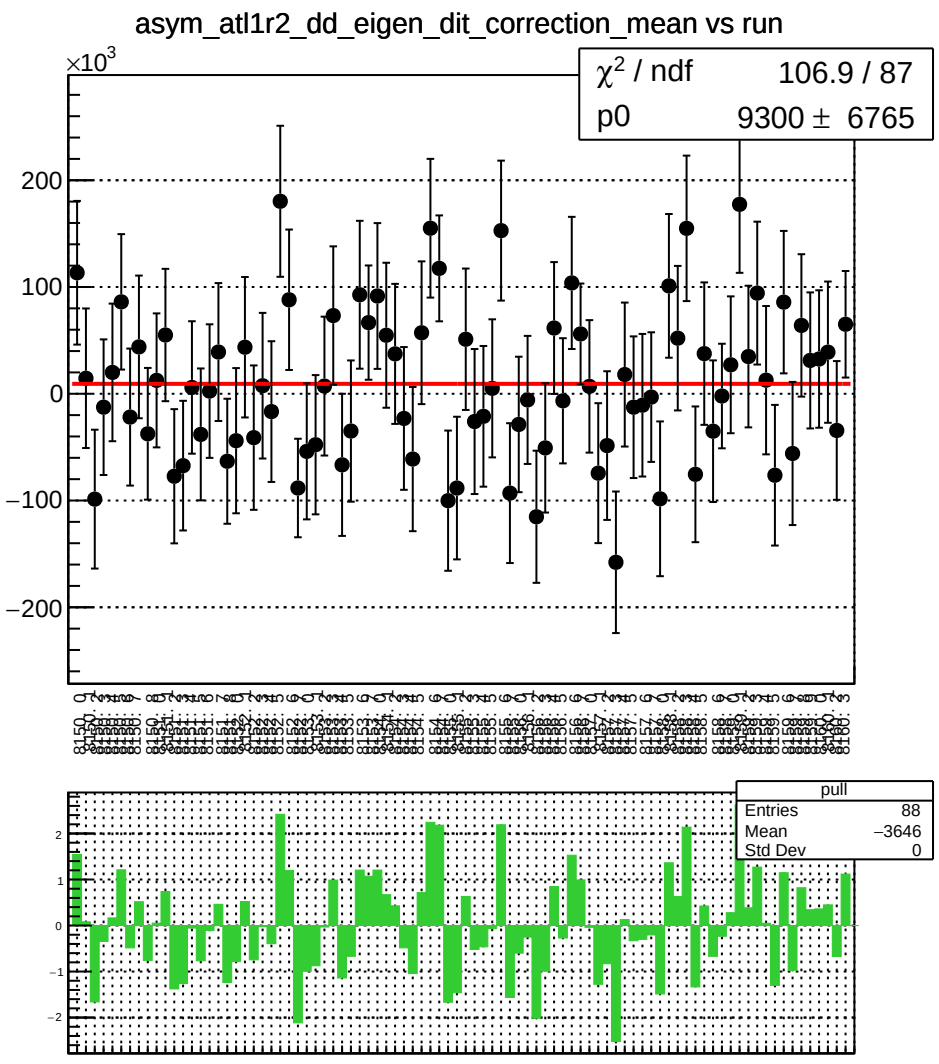

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 106.9 / 87
p0 9300 ± 6765
200
100
0
−100
−200
pull
Entries 88
Mean −3646
Std Dev 0
2
1
0
−1
−2

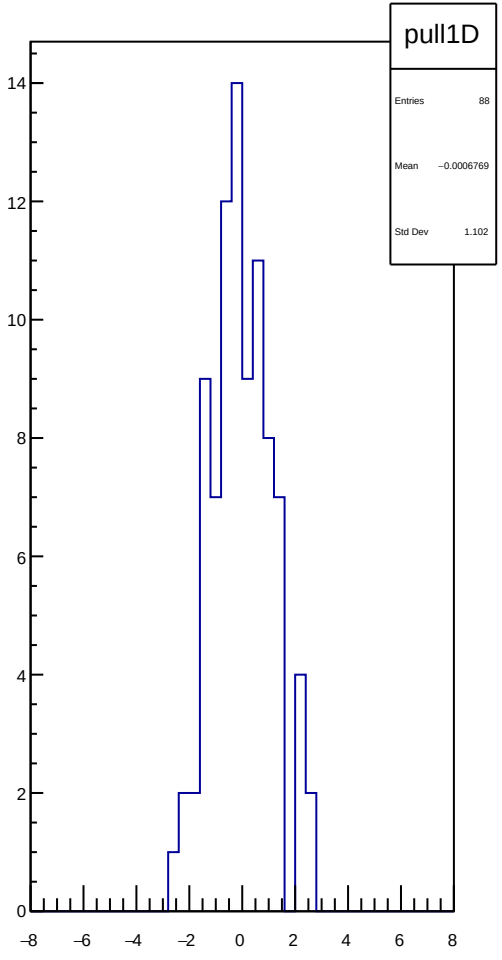

pull1D
Entries 88
Mean −0.0006769
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

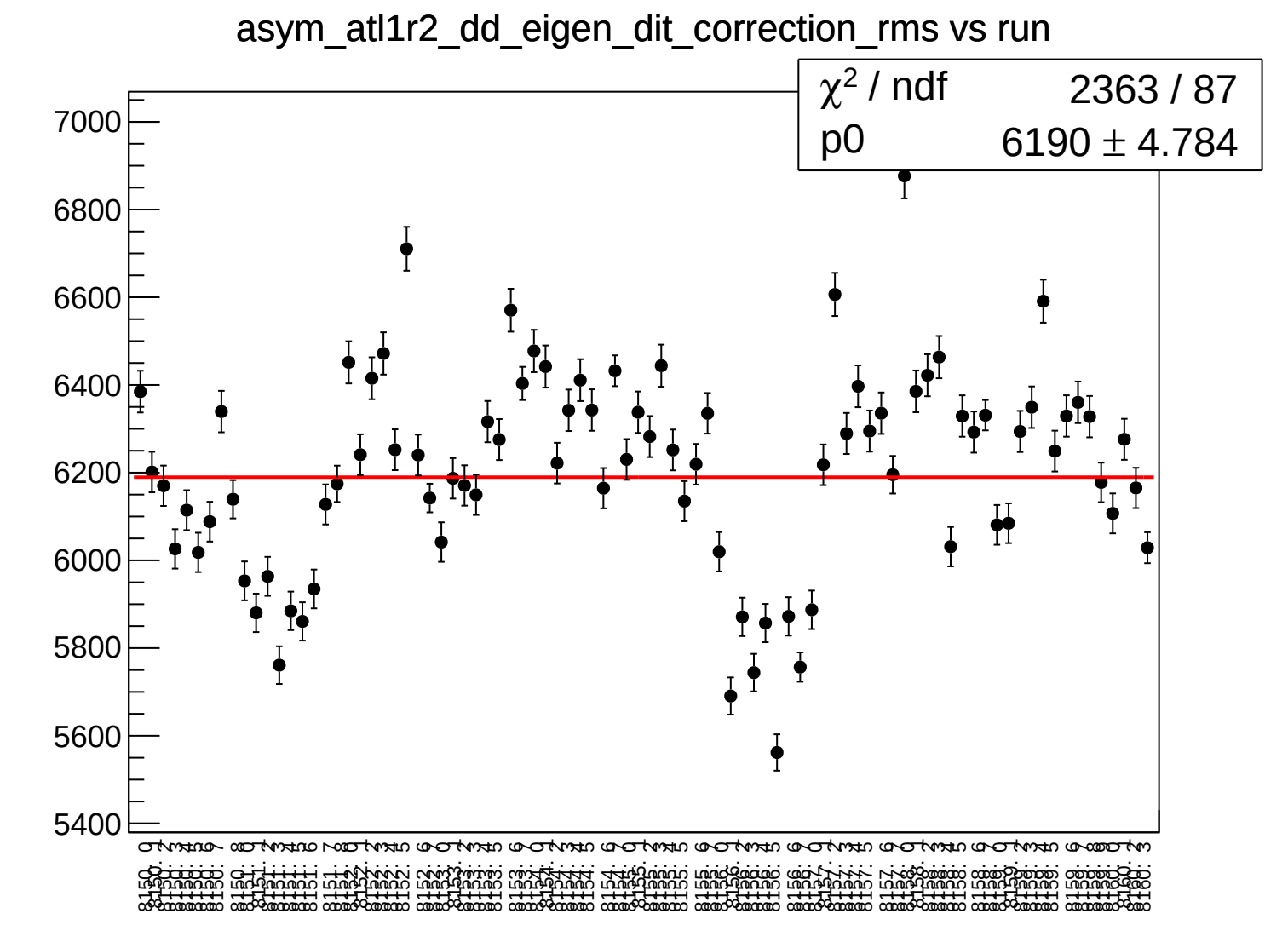

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 2363 / 87
p0 6190 ± 4.784
7000
6800
6600
6400
6200
6000
5800
5600
5400

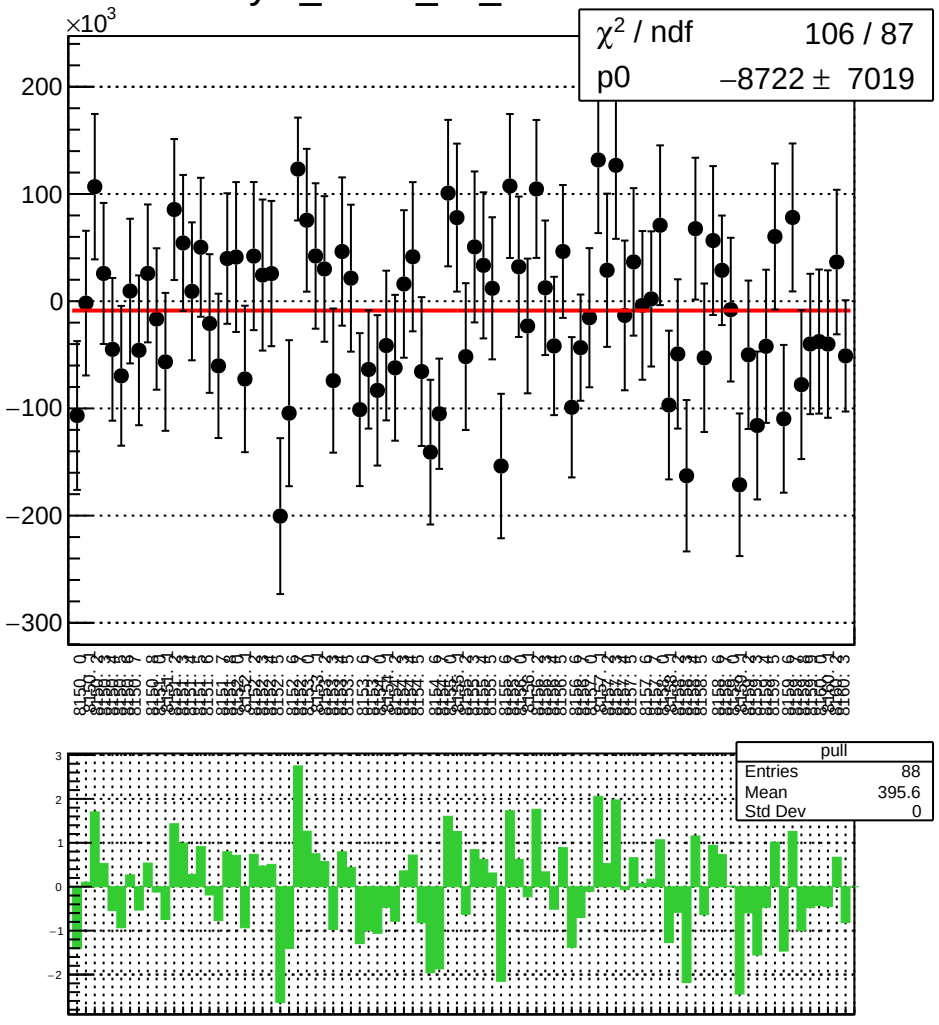

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 79.55 / 87
p0 531.8 ± 2068
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 64.19
Std Dev 39.17
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0254
Std Dev 0.9504
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

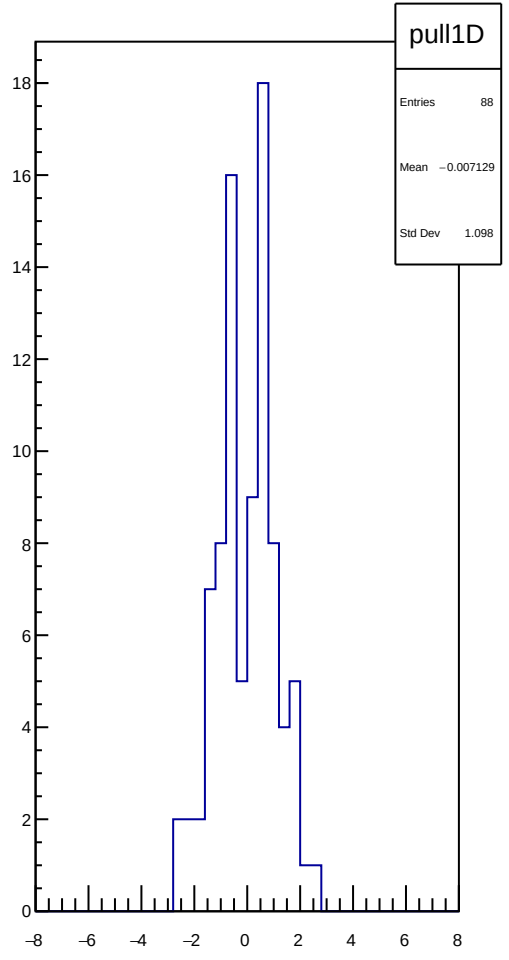

eigen_dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 109.7 / 87
p0 1893 ± 1.462
1940
1920
1900
1880
1860
1840

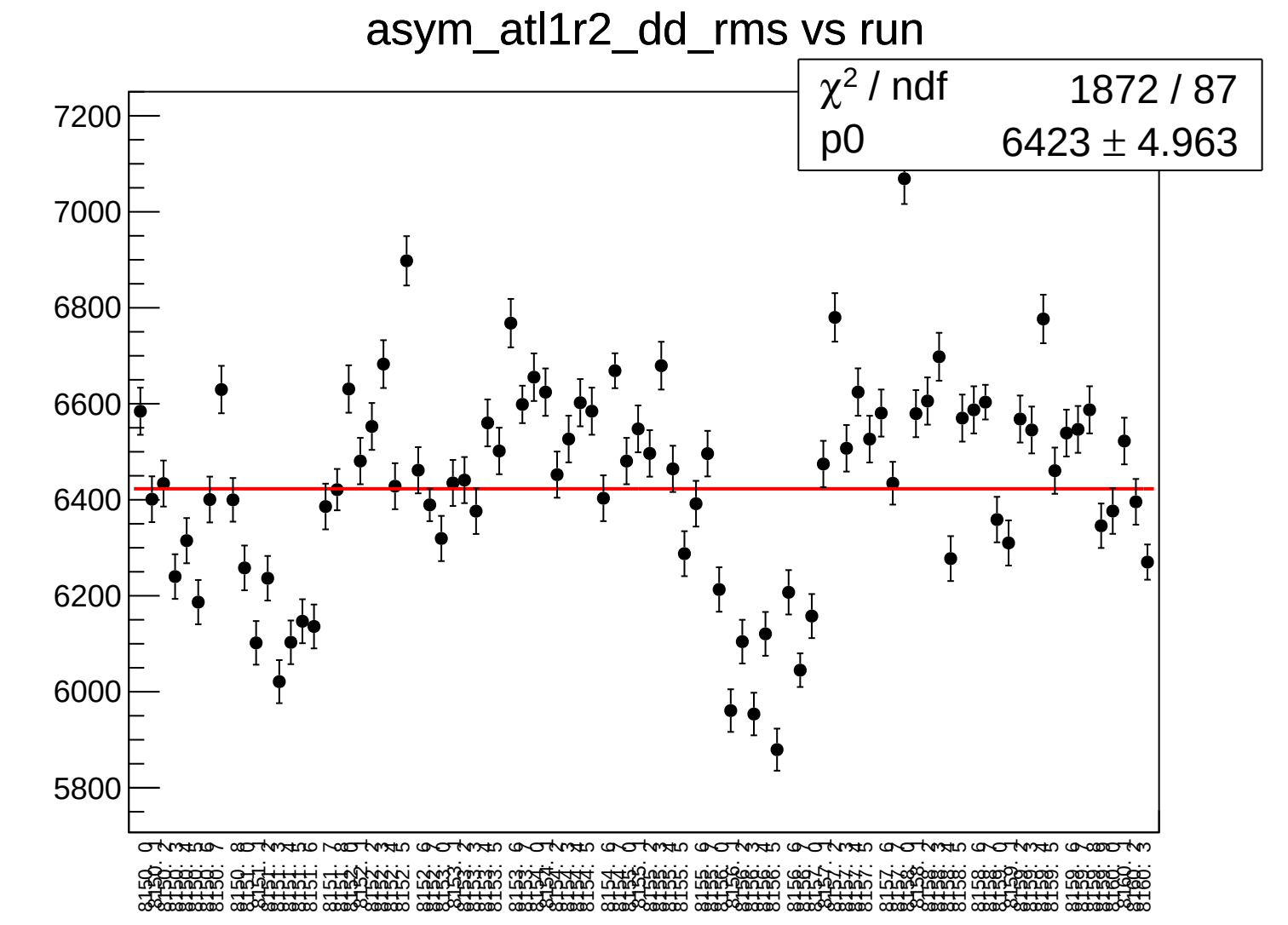

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 106.9 / 87
p0 9300 ± 6765
200
100
0
−100
−200
pull
Entries 88
Mean −3646
Std Dev 0
2
1
0
−1
−2

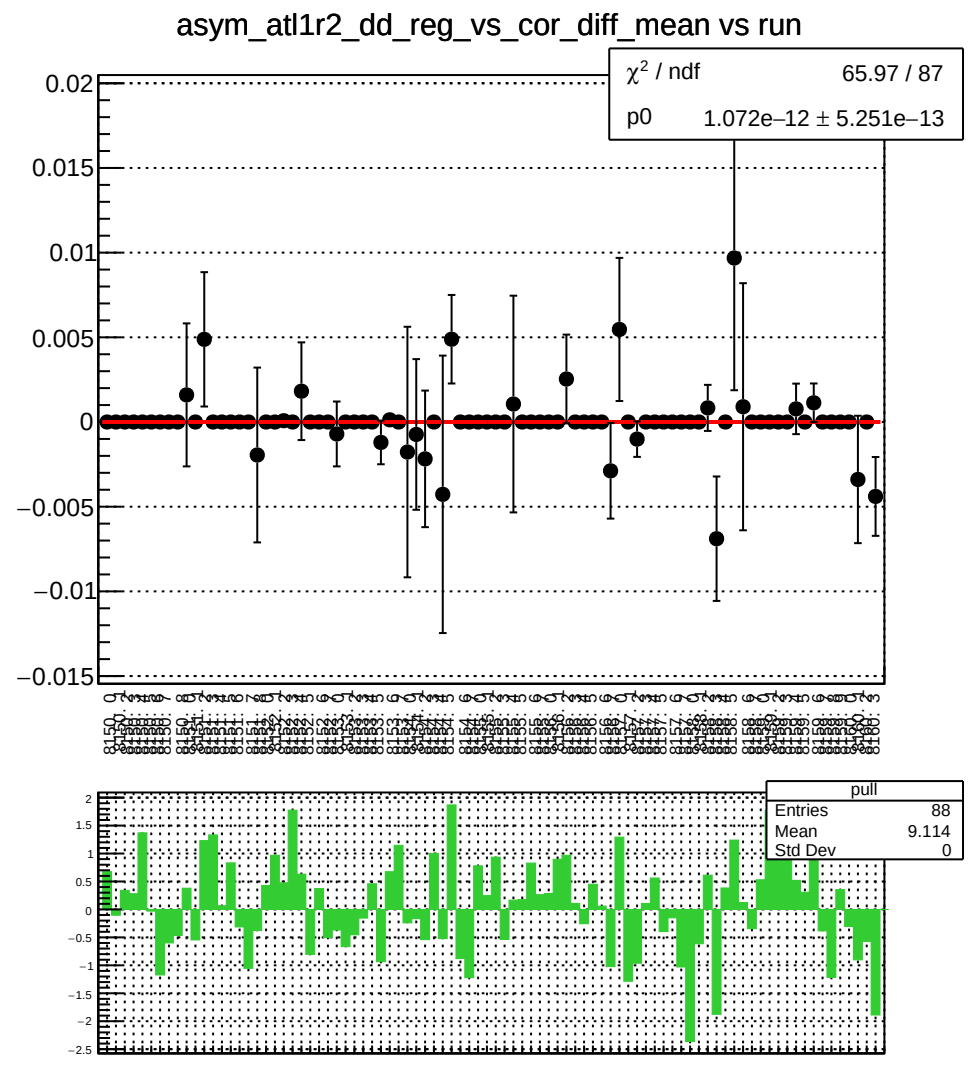

pull1D
Entries 88
Mean −0.0006769
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

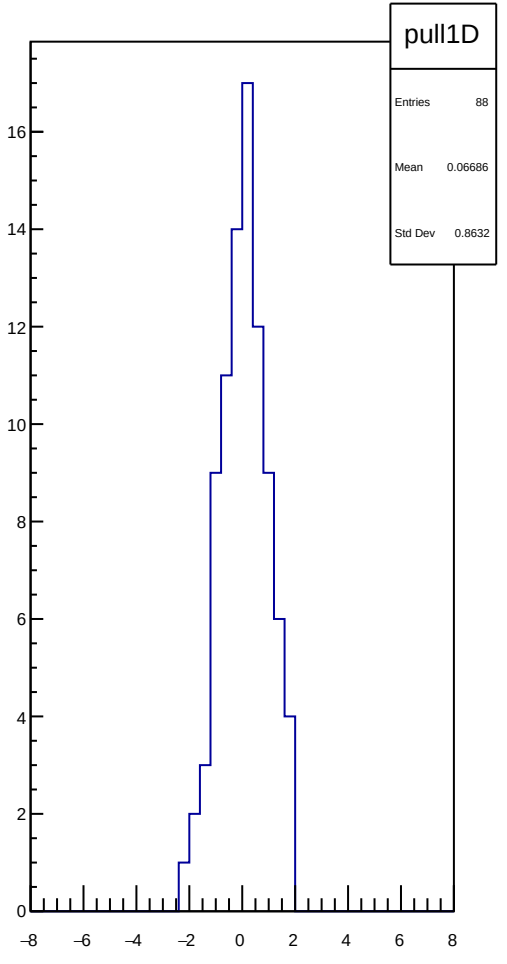

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2363 / 87
p0 6190 ± 4.784
7000
6800
6600
6400
6200
6000
5800
5600
5400

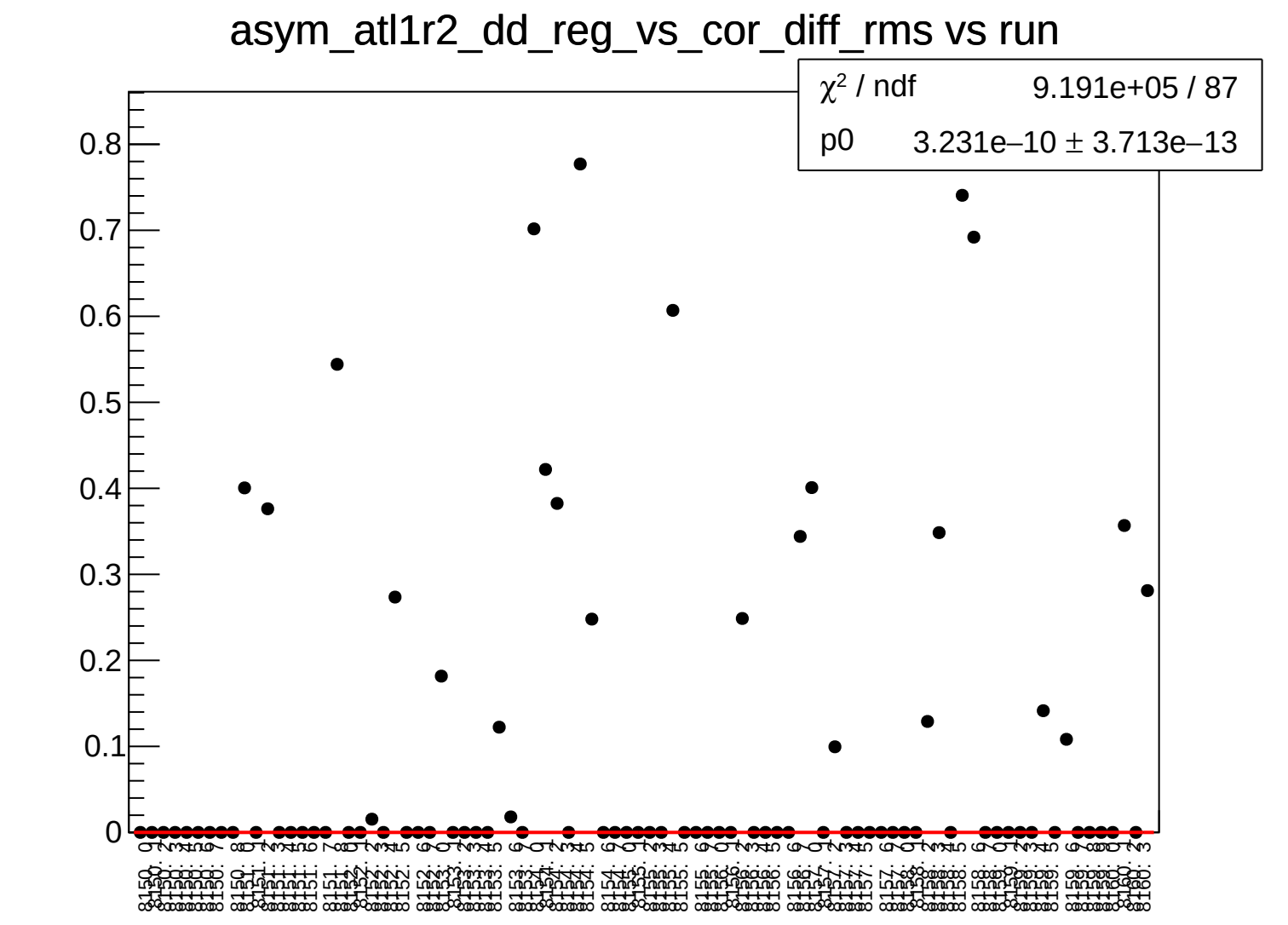

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 106 / 87
p0 −8722 ± 7019
pull
Entries 88
Mean 395.6
Std Dev 0

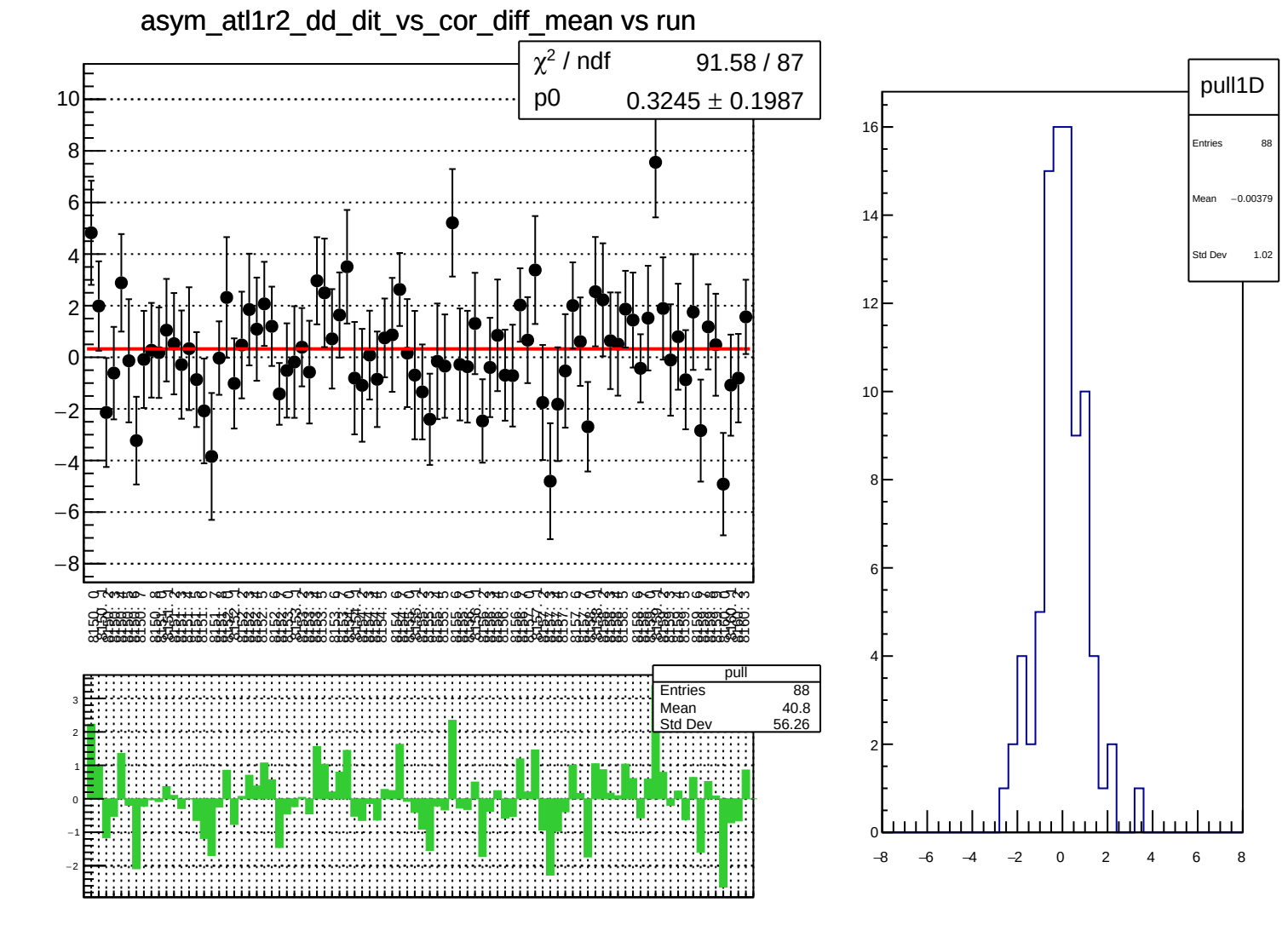

pull1D
Entries 88
Mean −0.007129
Std Dev 1.098

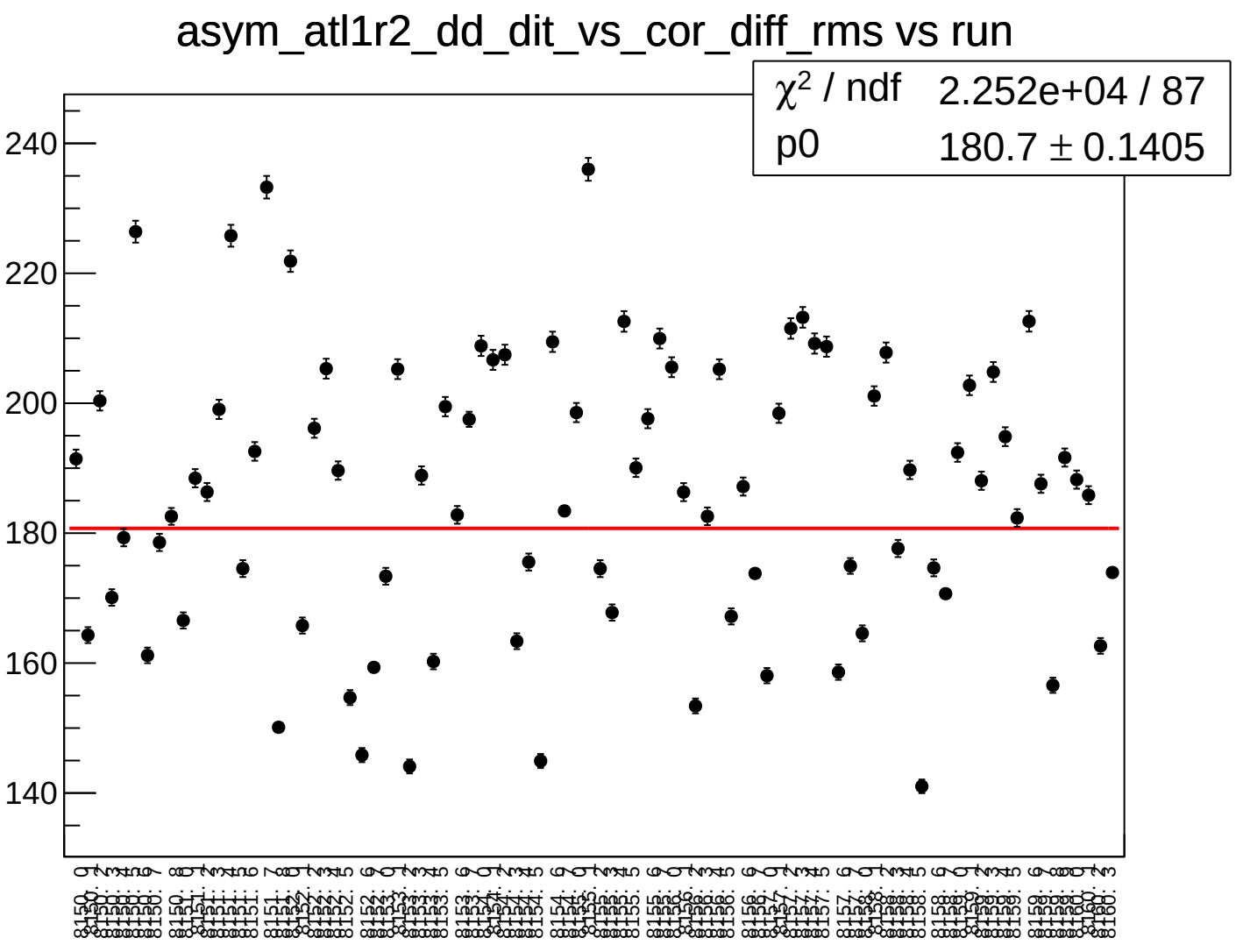

asym_atl1r2_dd_rms vs run
χ^2 / ndf 1872 / 87
p0 6423 ± 4.963
7200
7000
6800
6600
6400
6200
6000
5800

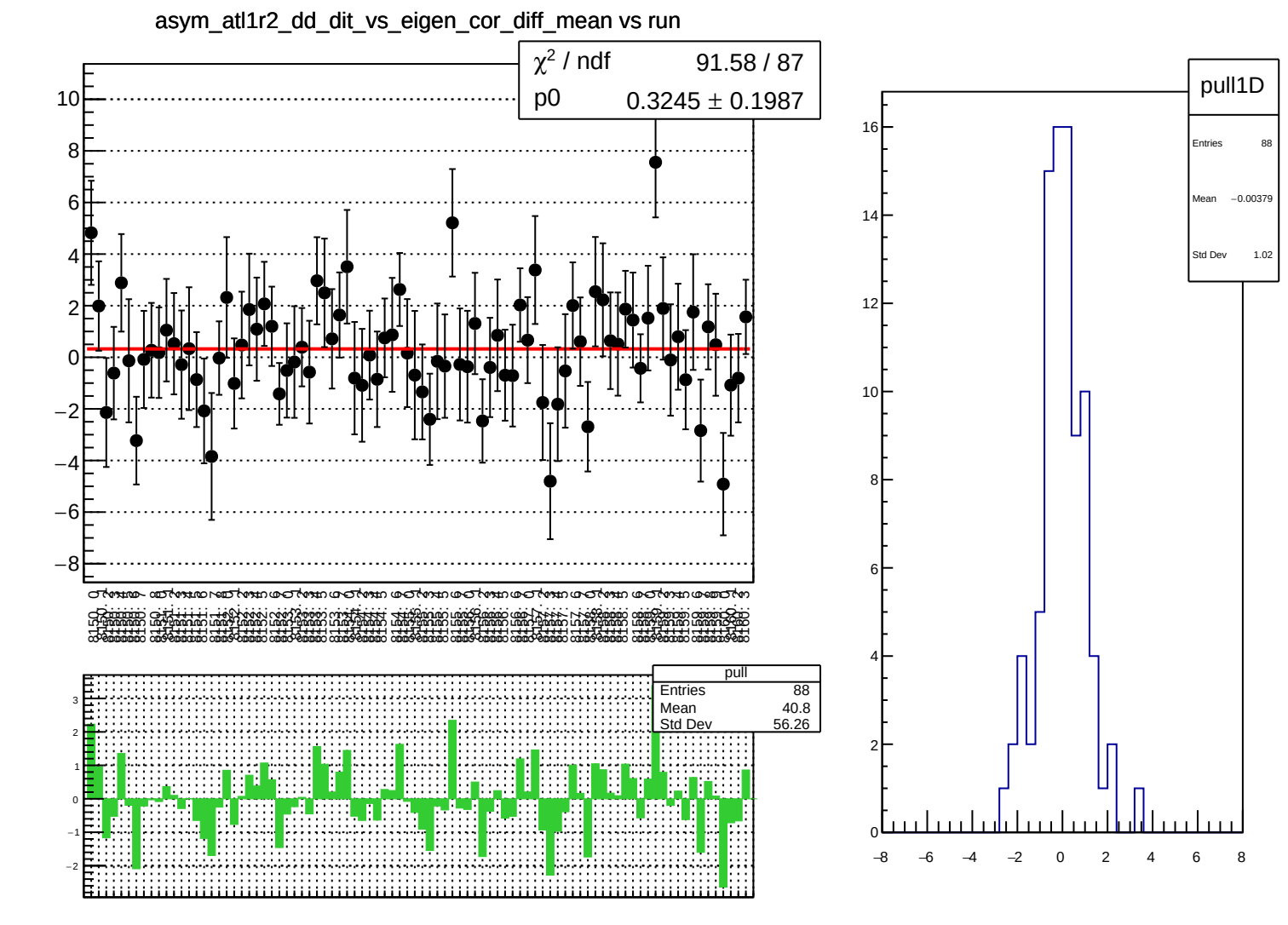

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 65.97 / 87
p0 1.072e−12 ± 5.251e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 9.114
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

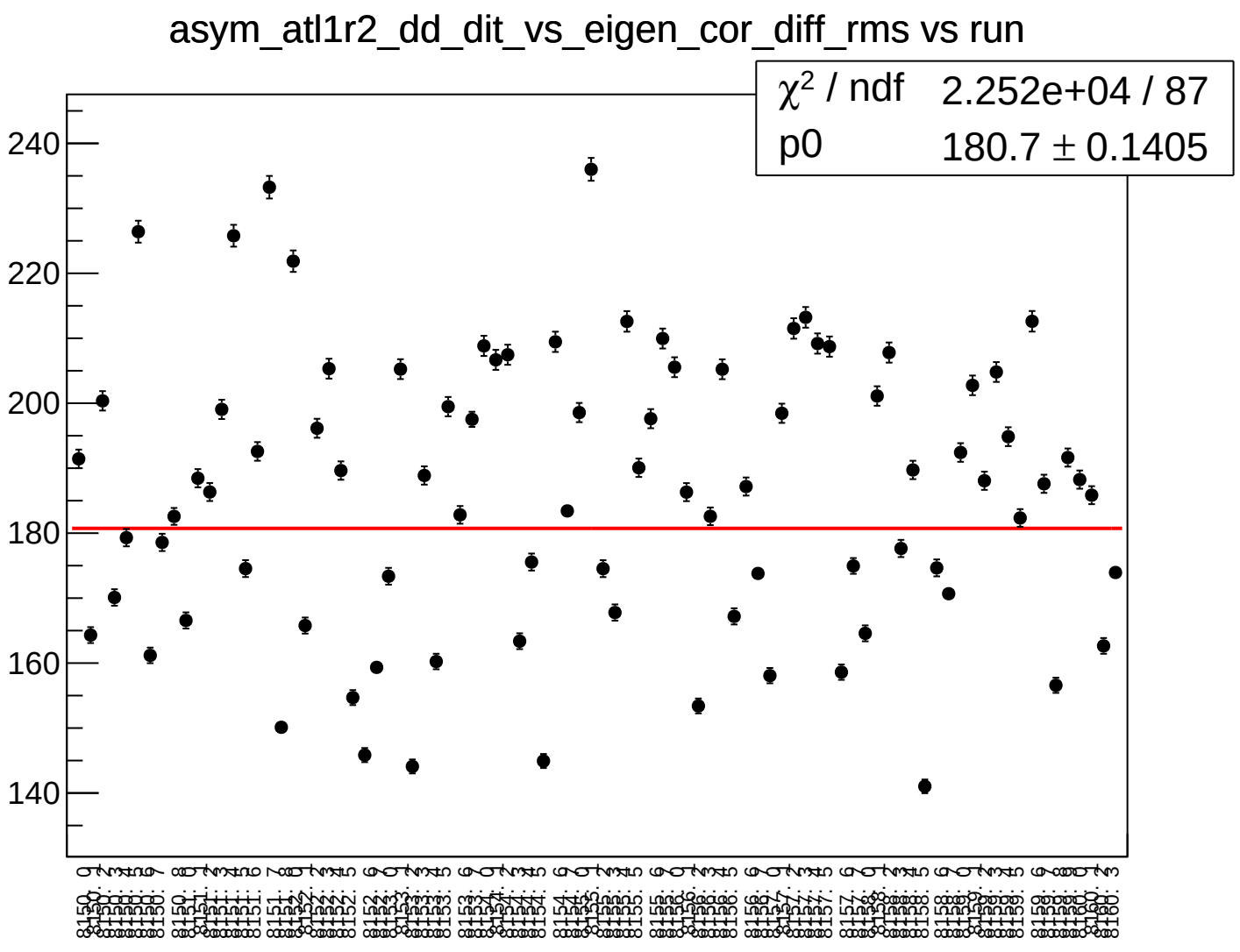

pull1D
Entries 88
Mean 0.06686
Std Dev 0.8632
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

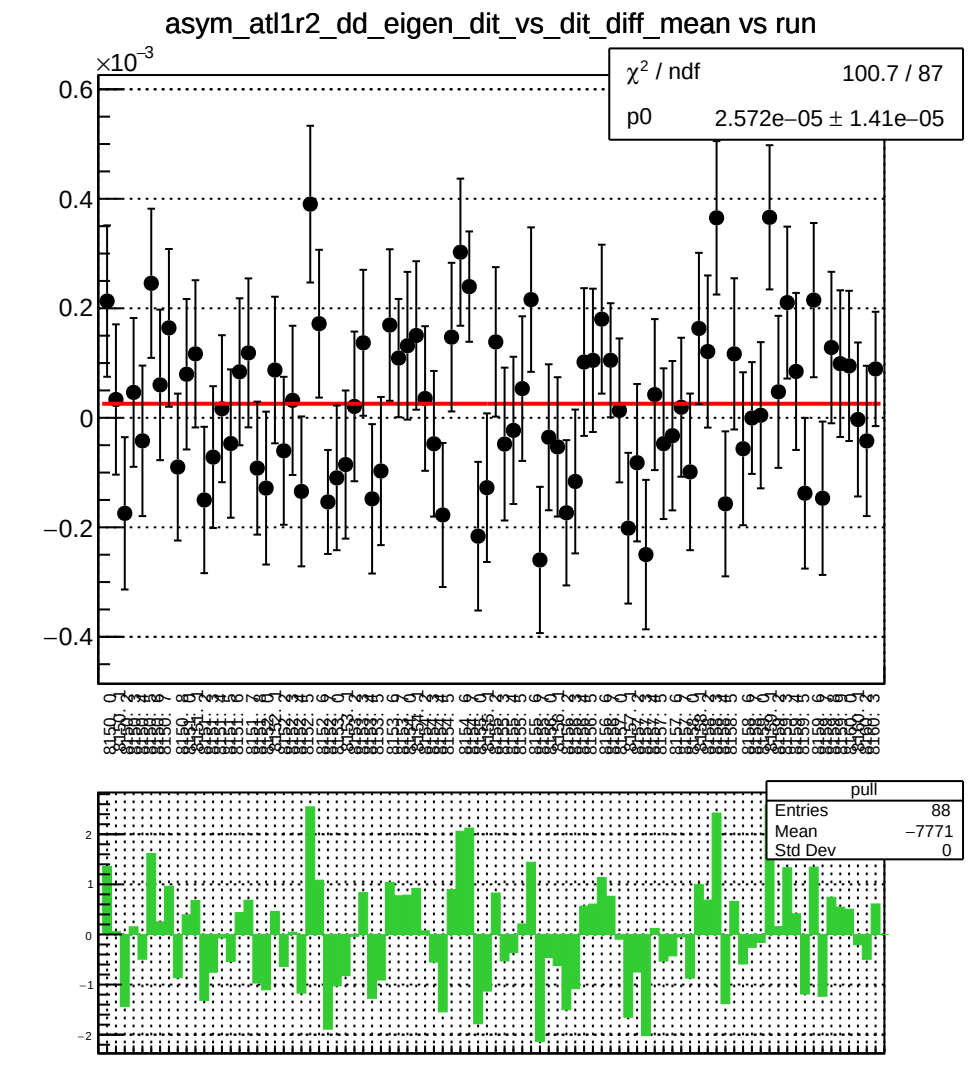

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.191e+05 / 87
p0 3.231e−10 ± 3.713e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

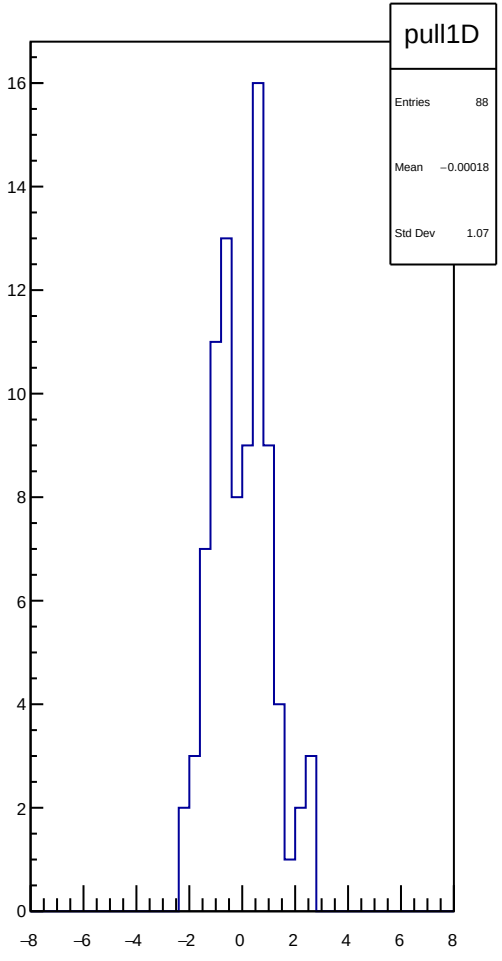

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.58 / 87
p0 0.3245 ± 0.1987
pull
Entries 88
Mean 40.8
Std Dev 56.26
pull1D
Entries 88
Mean −0.00379
Std Dev 1.02

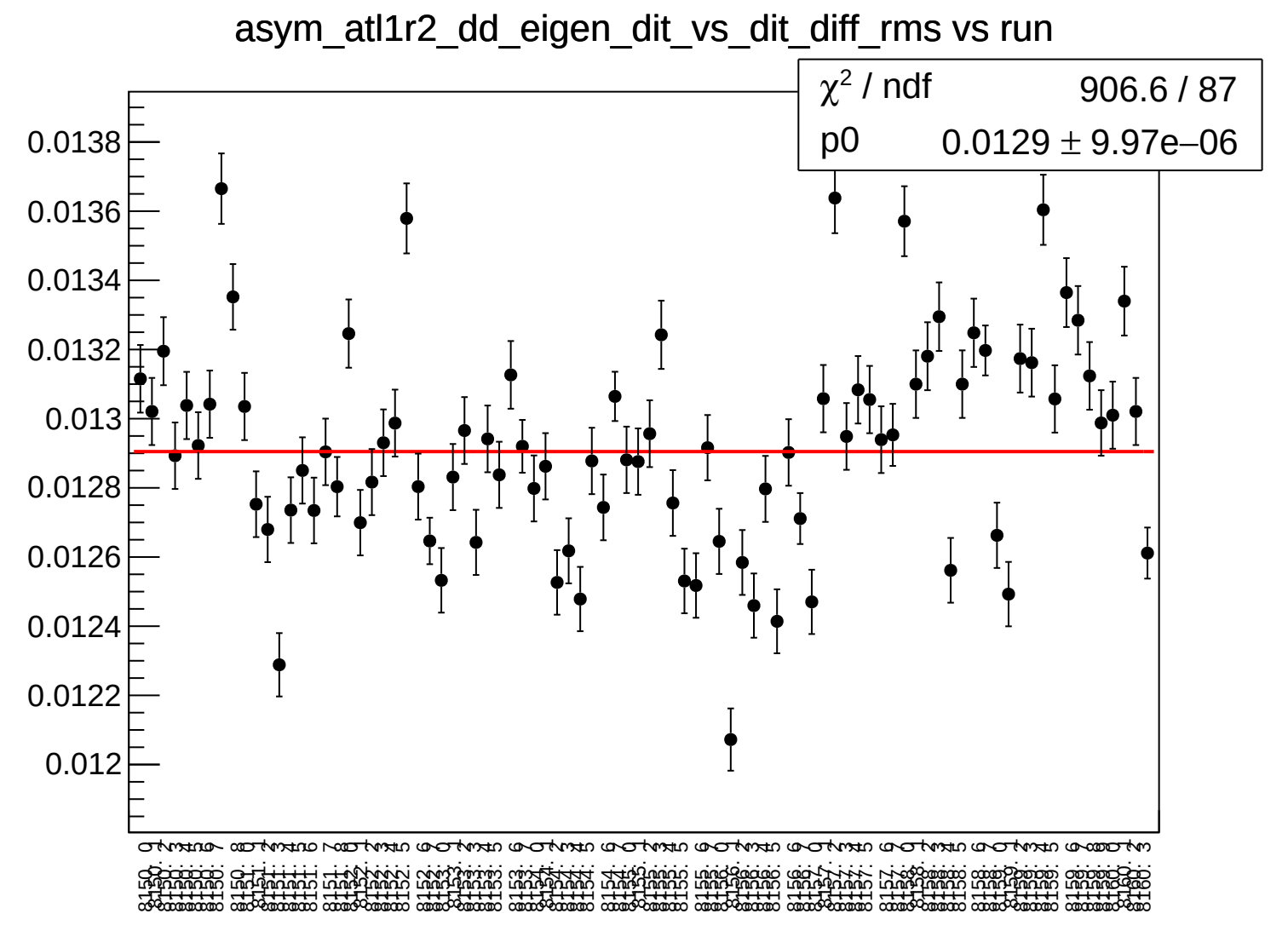

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.252e+04 / 87
p0 180.7 ± 0.1405
240
220
200
180
160
140

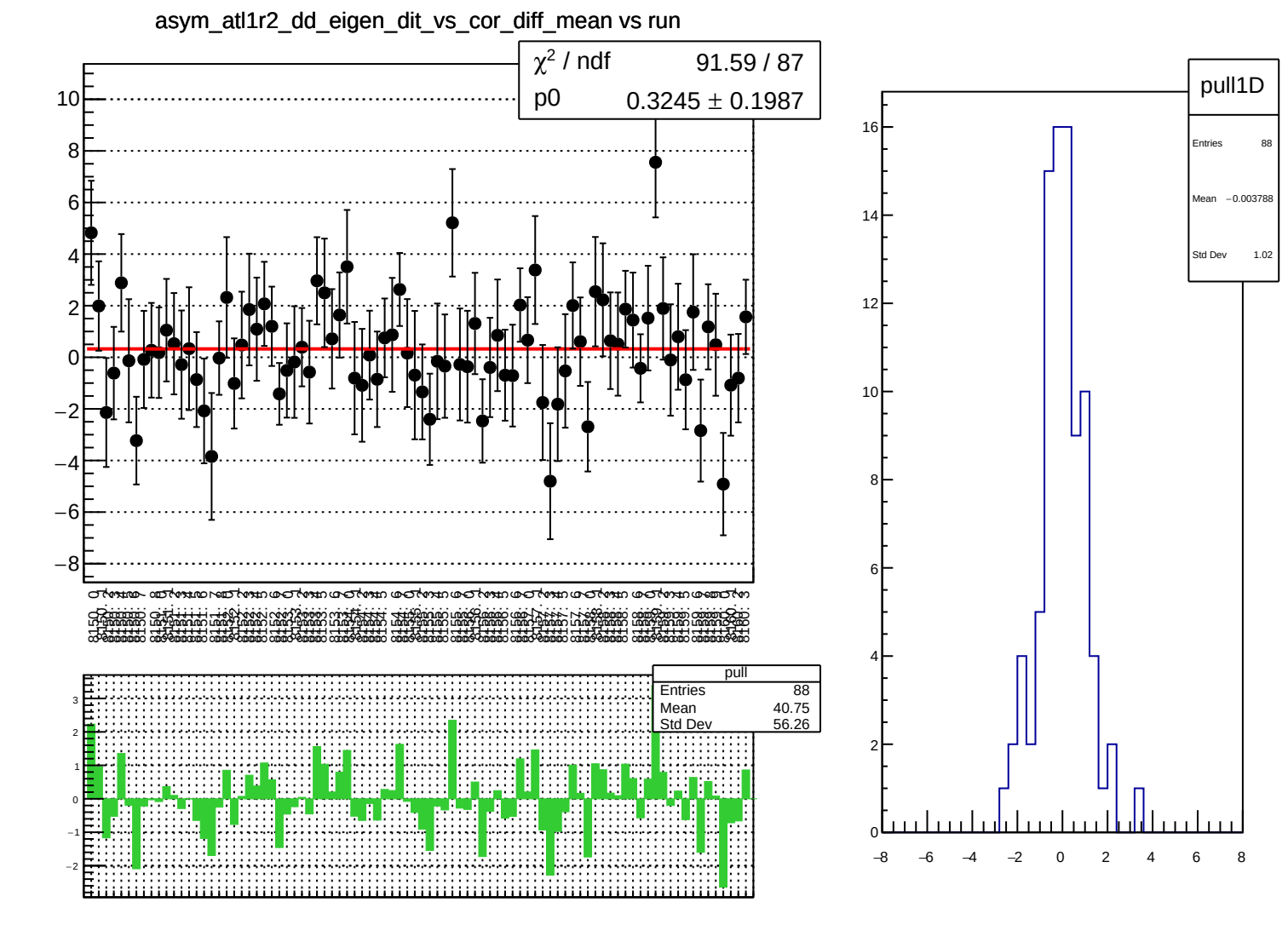

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.58 / 87
p0 0.3245 ± 0.1987
pull
Entries 88
Mean 40.8
Std Dev 56.26
pull1D
Entries 88
Mean −0.00379
Std Dev 1.02

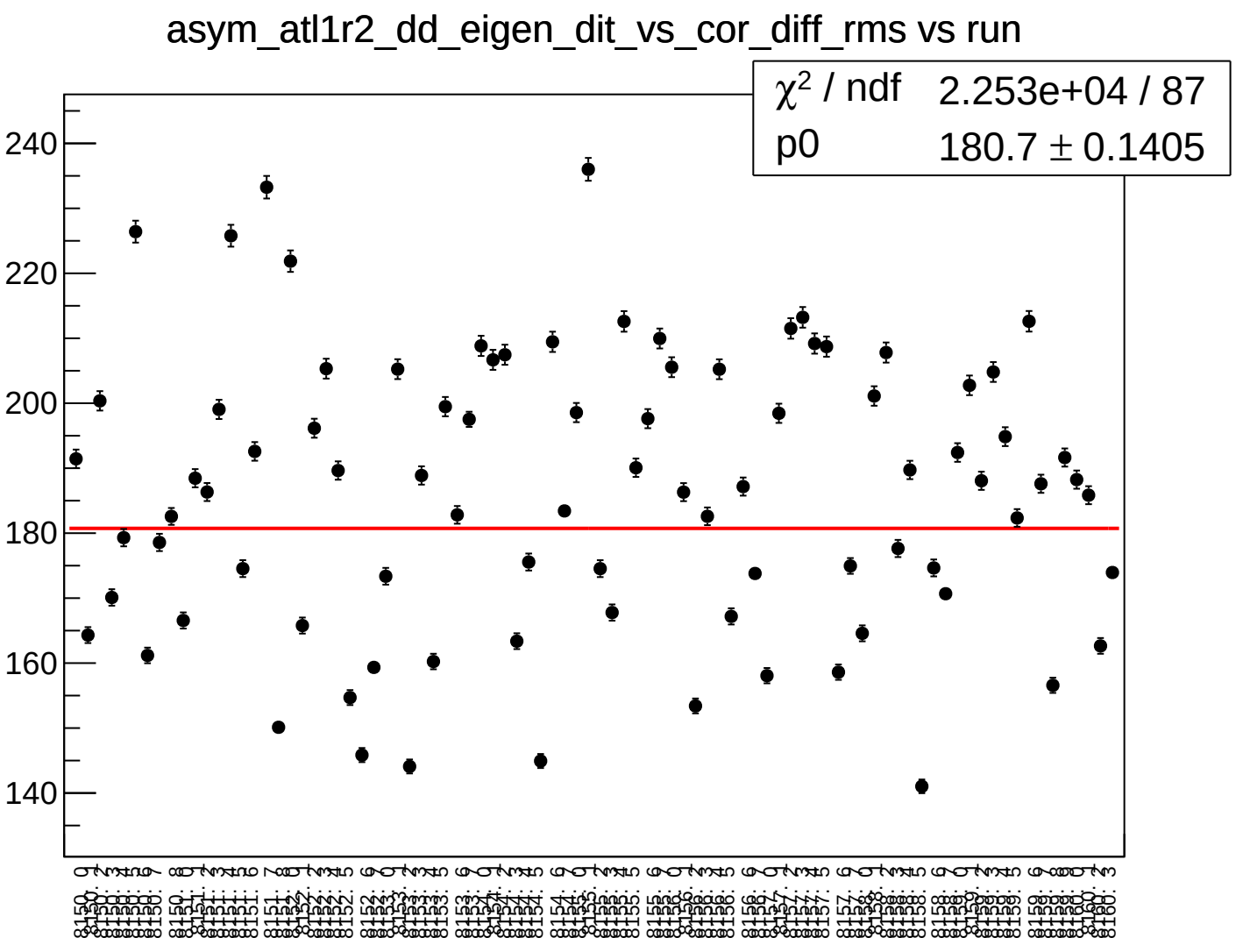

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.252e+04 / 87
p0 180.7 ± 0.1405
240
220
200
180
160
140

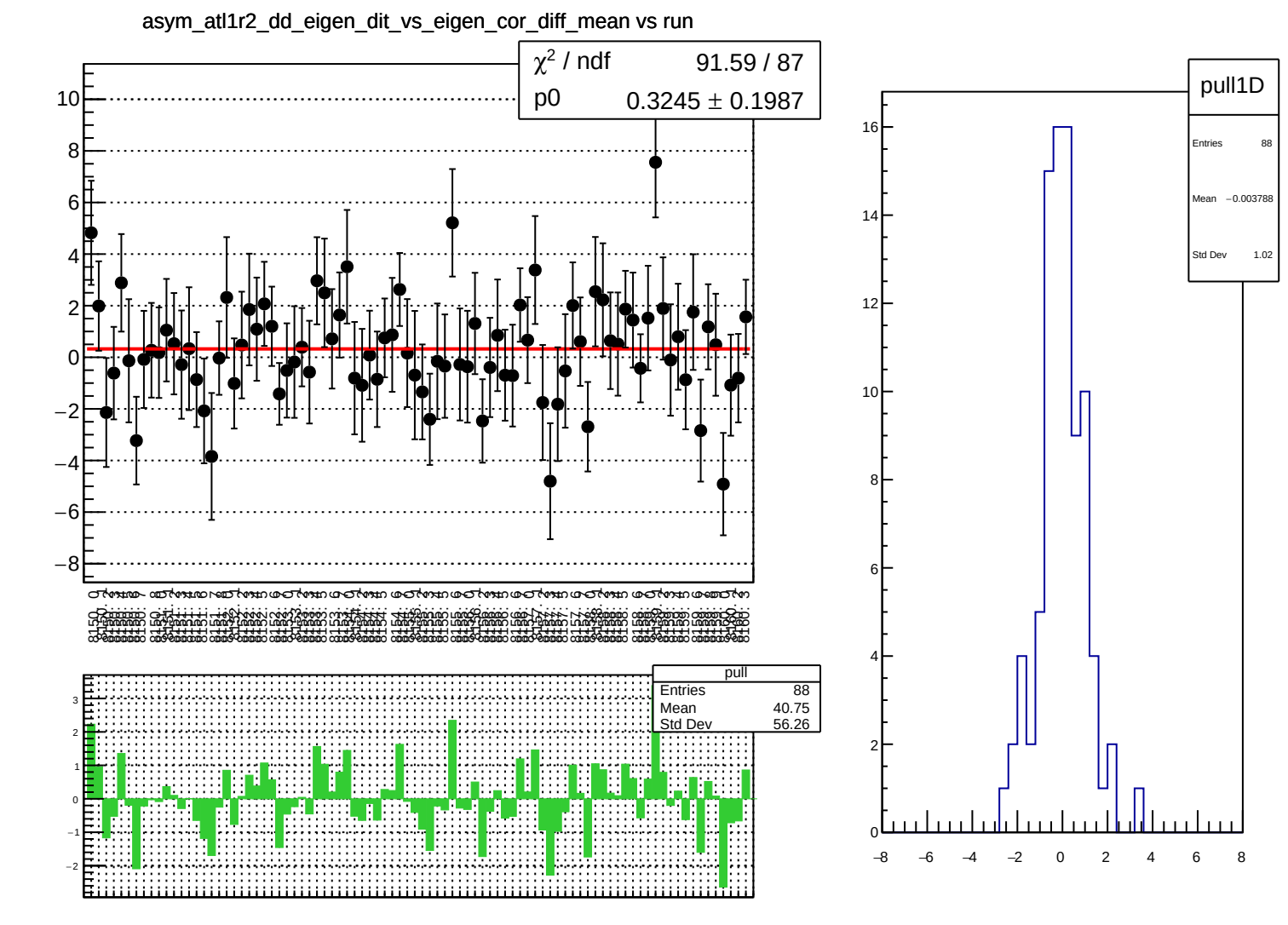

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.7 / 87
p0 2.572e−05 ± 1.41e−05
pull
Entries 88
Mean −7771
Std Dev 0

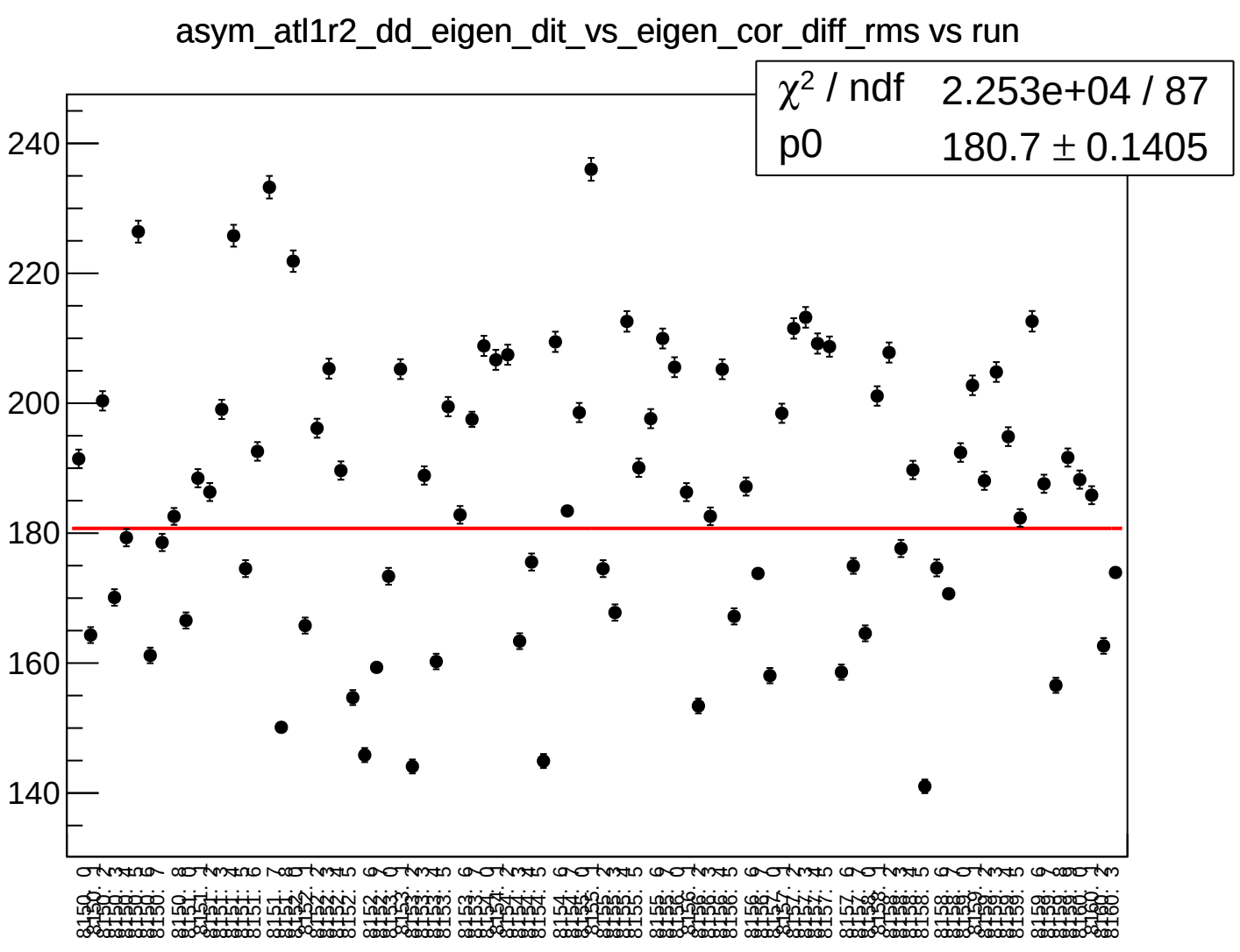

pull1D
Entries 88
Mean −0.00018
Std Dev 1.07

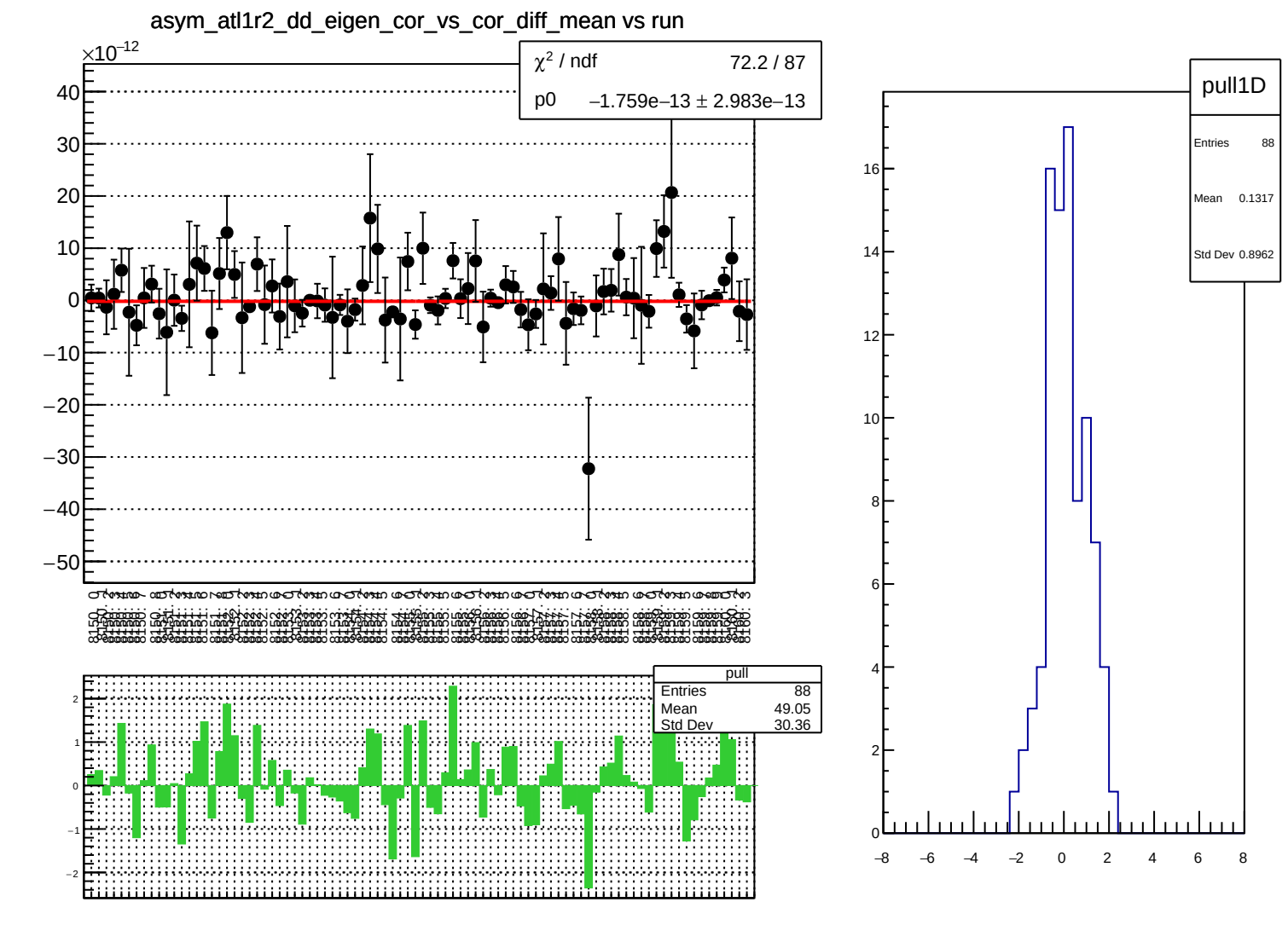

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 906.6 / 87
p0 0.0129 ± 9.97e−06
0.0138
0.0136
0.0134
0.0132
0.013
0.0128
0.0126
0.0124
0.0122
0.012

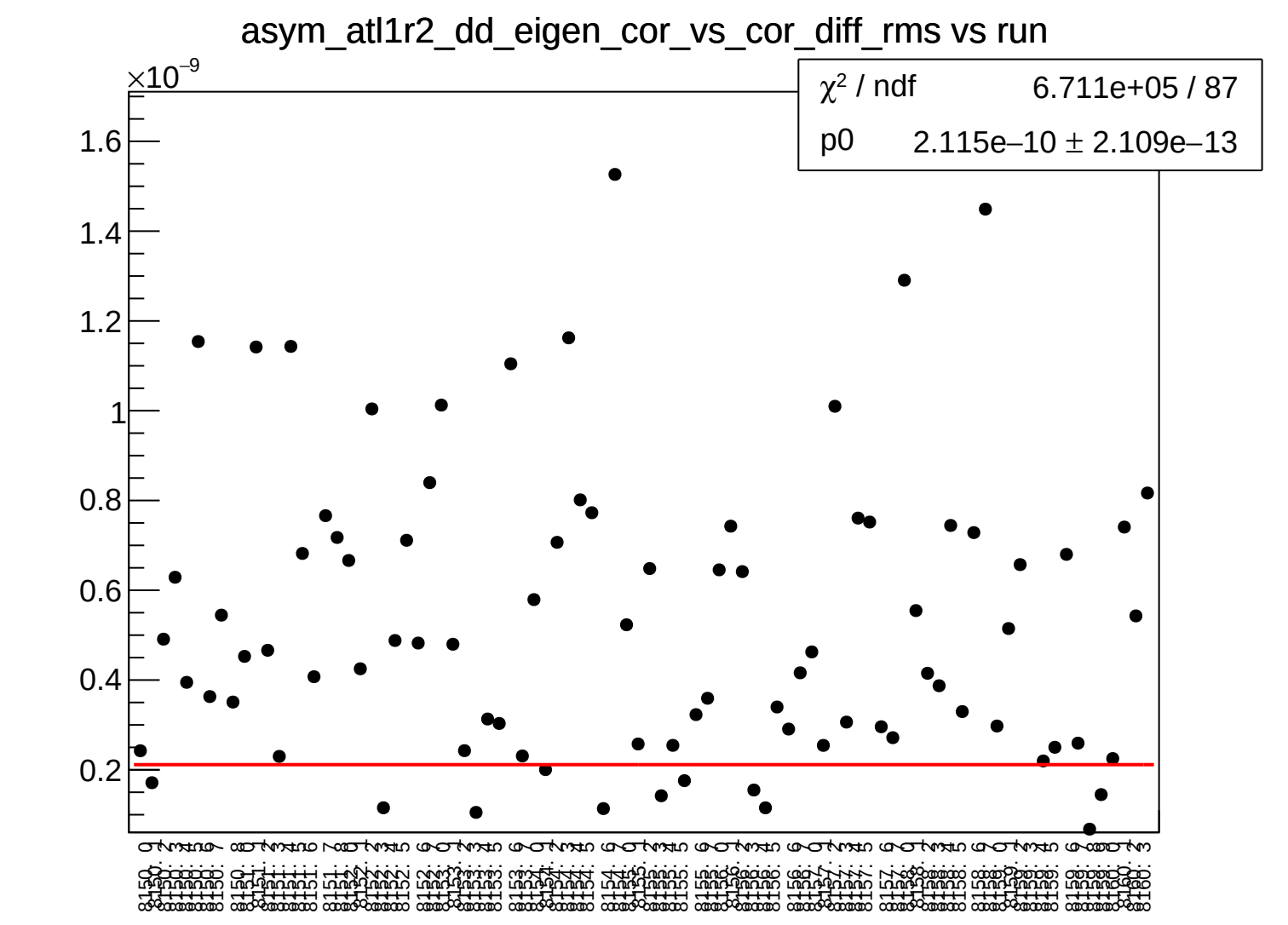

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.59 / 87
p0 0.3245 ± 0.1987
pull
Entries 88
Mean 40.75
Std Dev 56.26
pull1D
Entries 88
Mean −0.003788
Std Dev 1.02

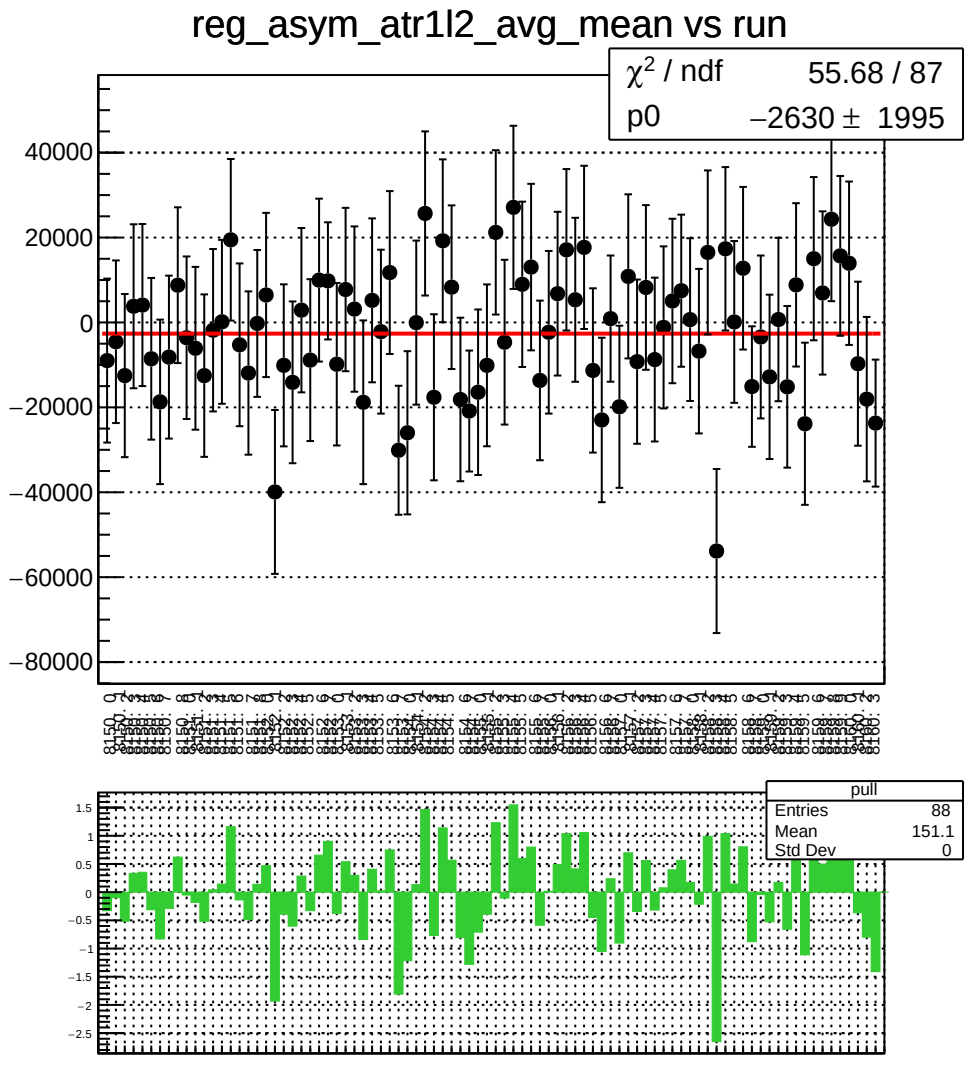

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.253e+04 / 87
p0 180.7 ± 0.1405
240
220
200
180
160
140

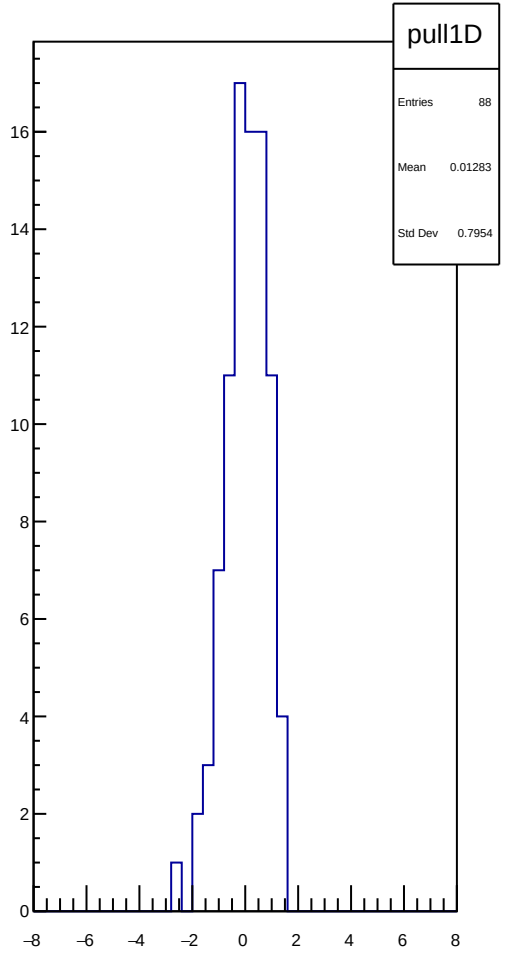

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.59 / 87
p0 0.3245 ± 0.1987
pull
Entries 88
Mean 40.75
Std Dev 56.26
pull1D
Entries 88
Mean −0.003788
Std Dev 1.02

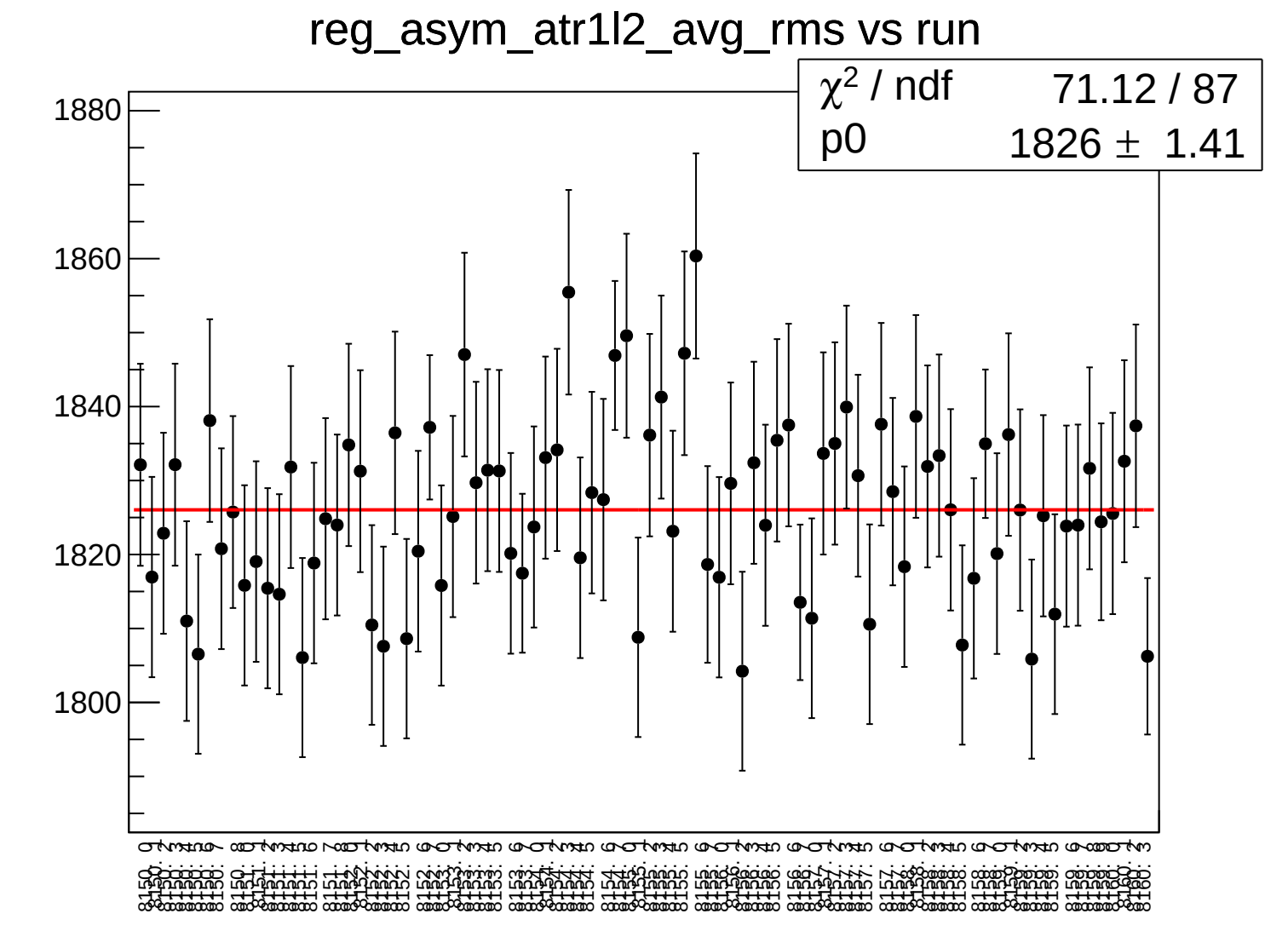

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.253e+04 / 87
p0 180.7 ± 0.1405
240
220
200
180
160
140

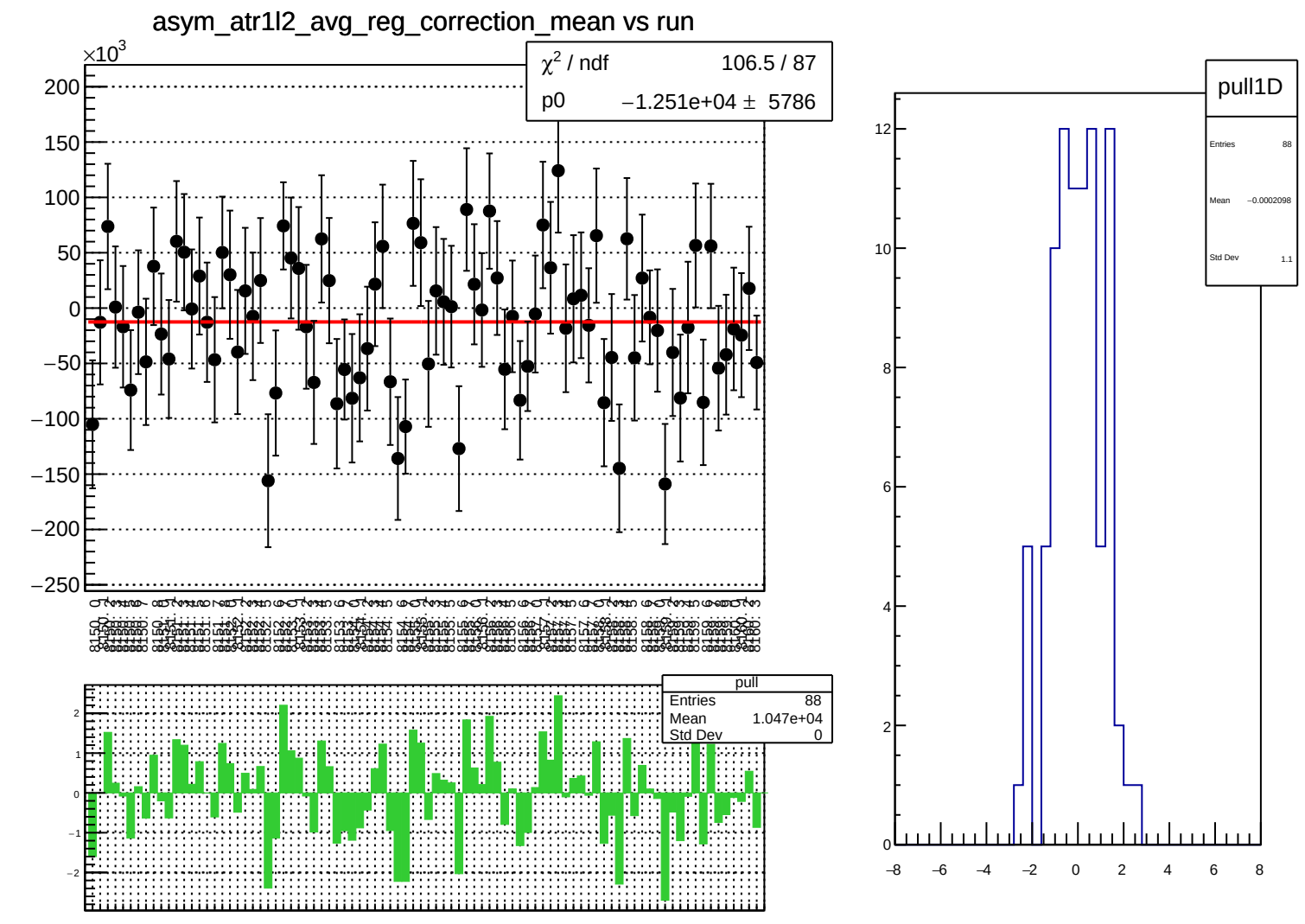

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.2 / 87
p0 −1.759e−13 ± 2.983e−13
pull
Entries 88
Mean 49.05
Std Dev 30.36
pull1D
Entries 88
Mean 0.1317
Std Dev 0.8962

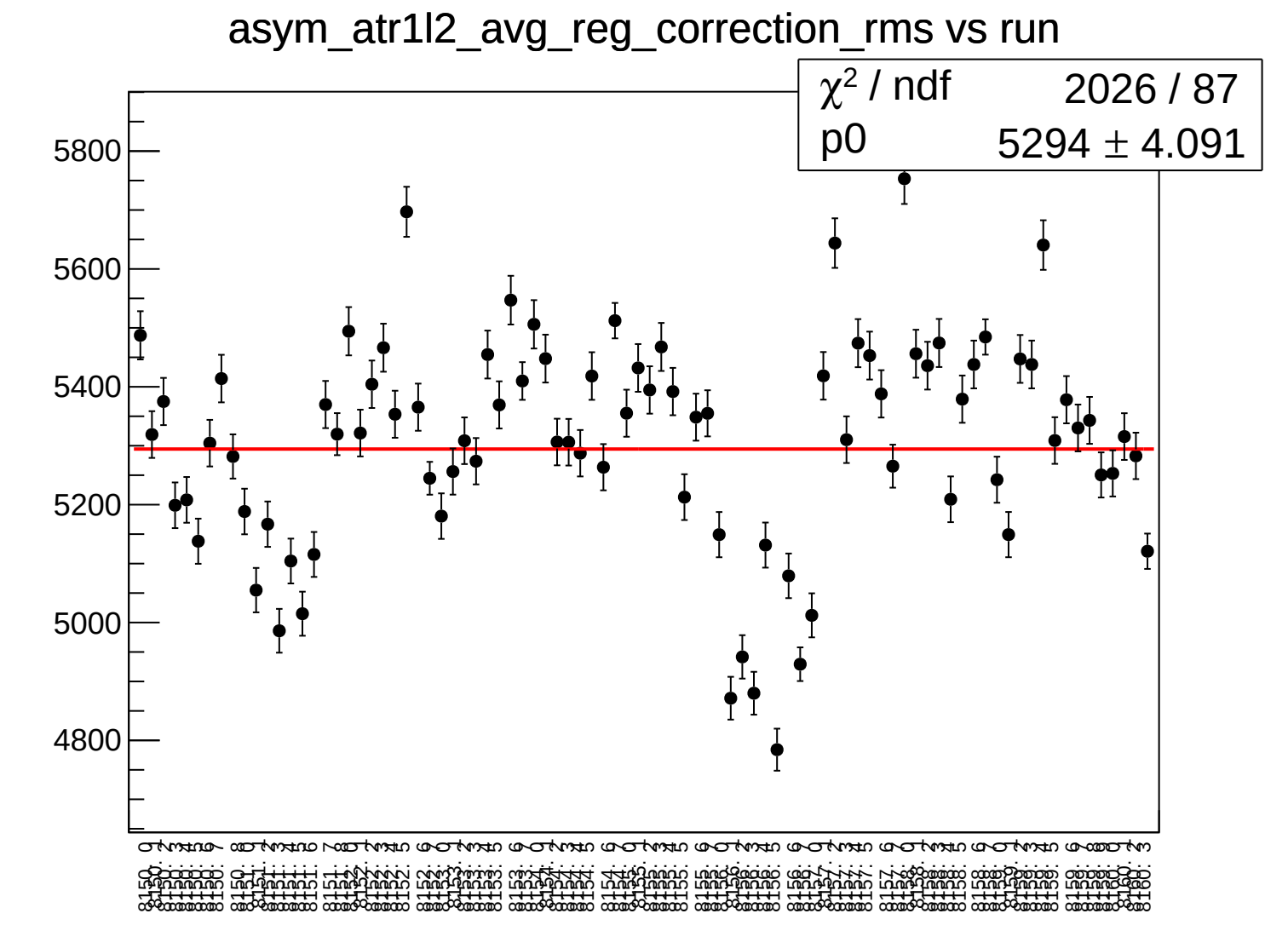

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.711e+05 / 87
p0 2.115e−10 ± 2.109e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

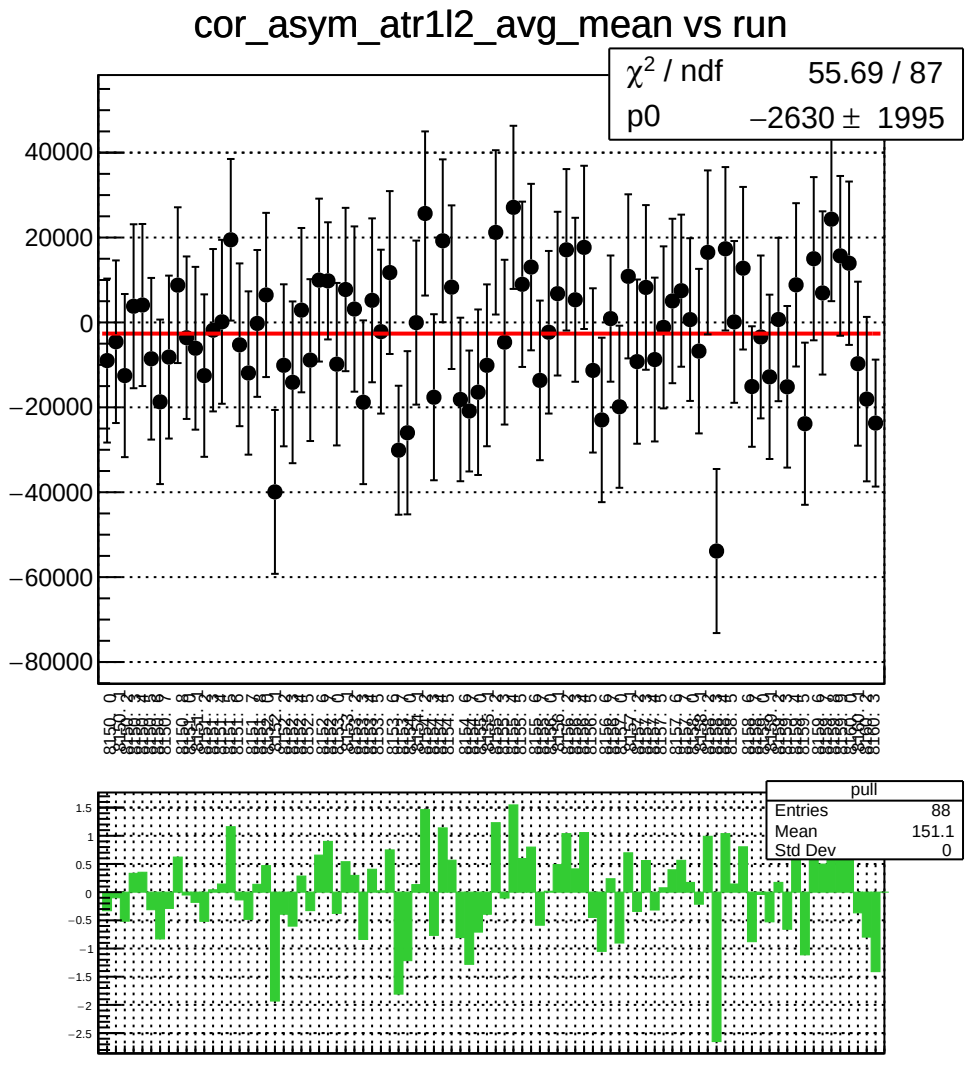

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 55.68 / 87
p0 −2630 ± 1995
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 151.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

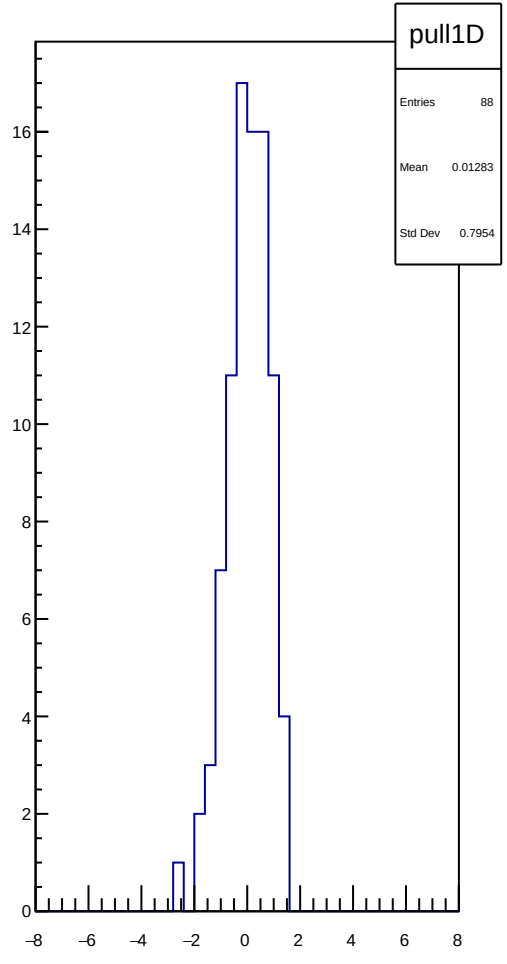

pull1D
Entries 88
Mean 0.01283
Std Dev 0.7954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

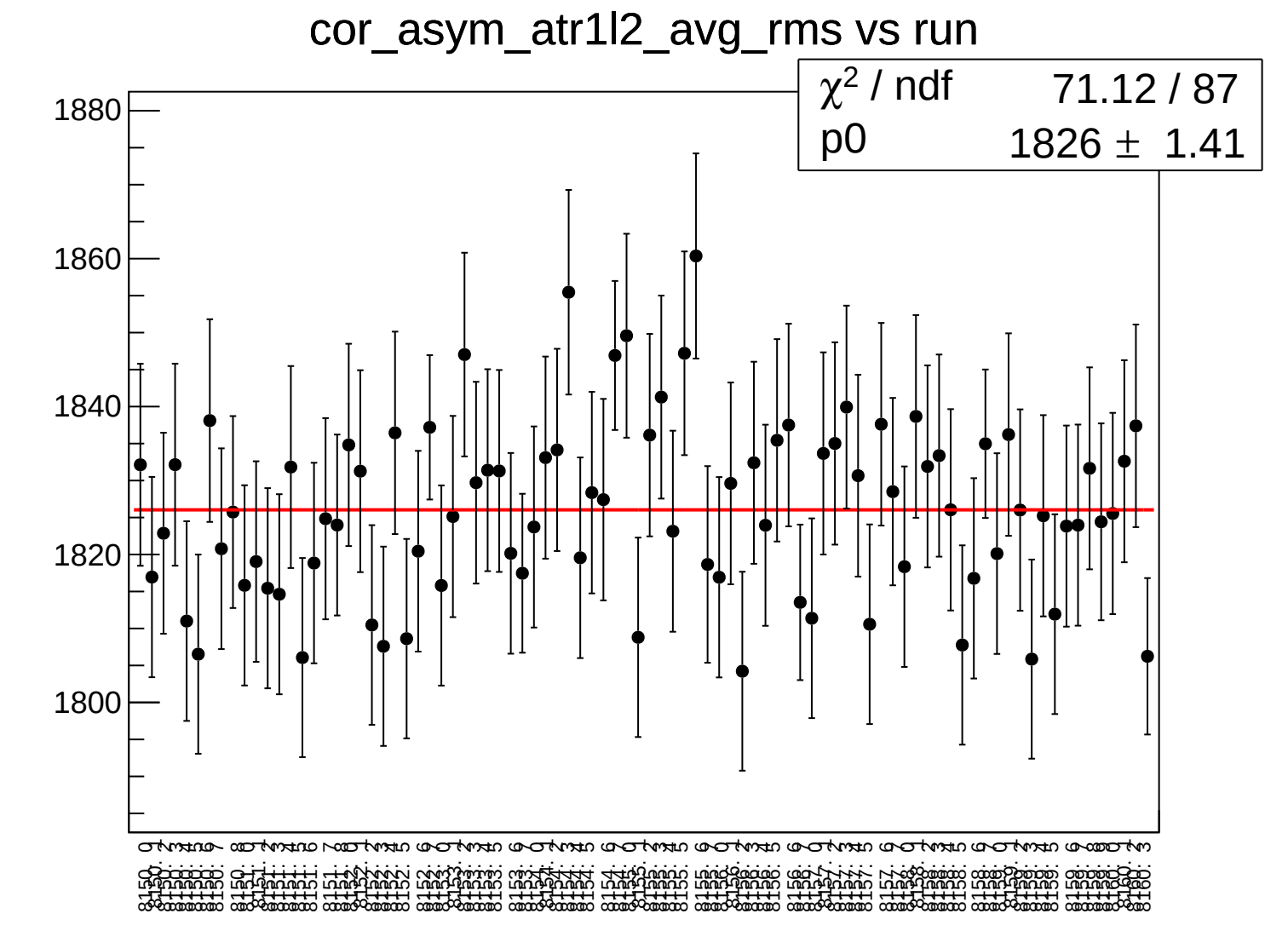

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 71.12 / 87
p0 1826 ± 1.41
1880
1860
1840
1820
1800

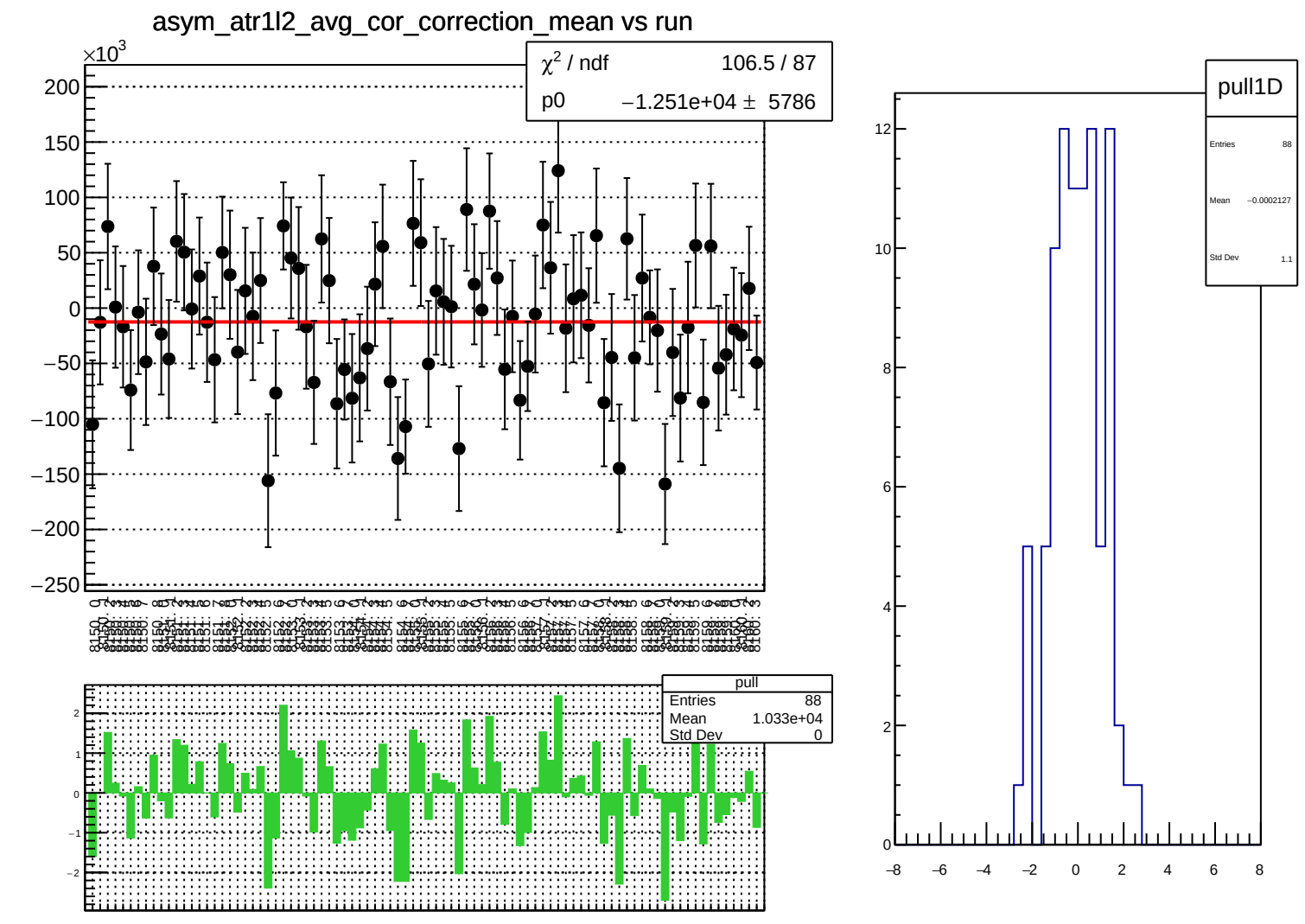

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 106.5 / 87
p0 −1.251e+04 ± 5786
pull
Entries 88
Mean 1.047e+04
Std Dev 0
pull1D
Entries 88
Mean −0.0002098
Std Dev 1.1

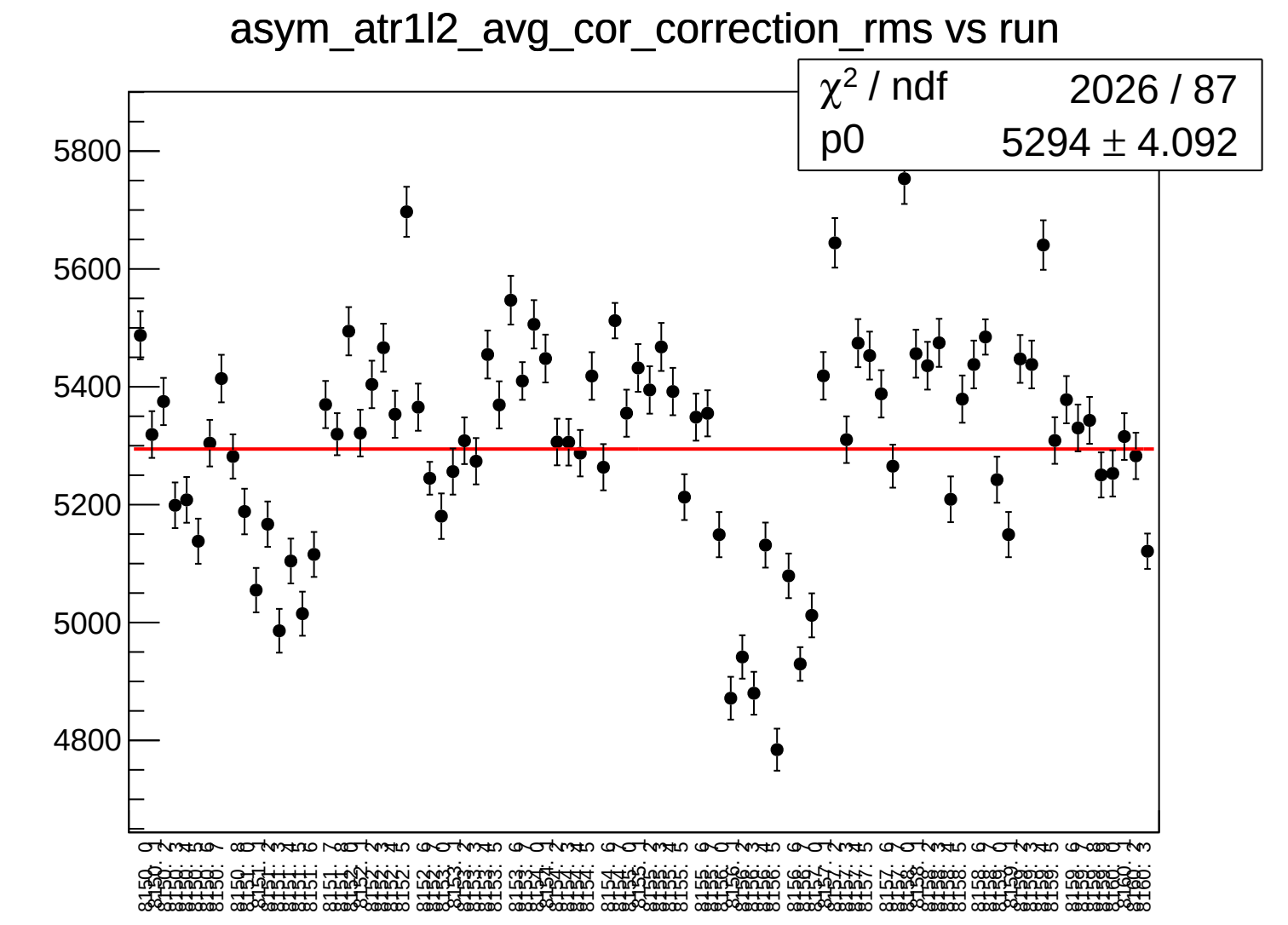

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 2026 / 87
p0 5294 ± 4.091
5800
5600
5400
5200
5000
4800

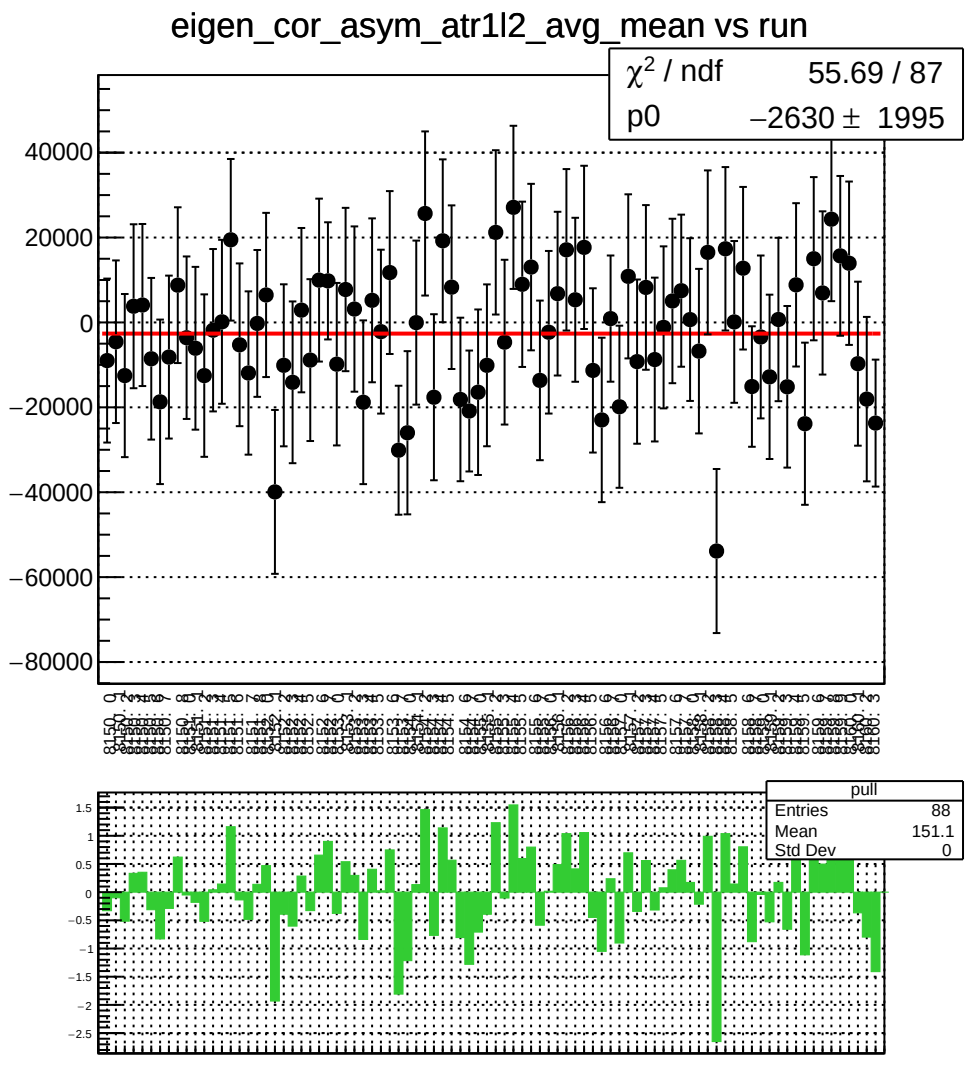

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 55.69 / 87
p0 −2630 ± 1995
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 151.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

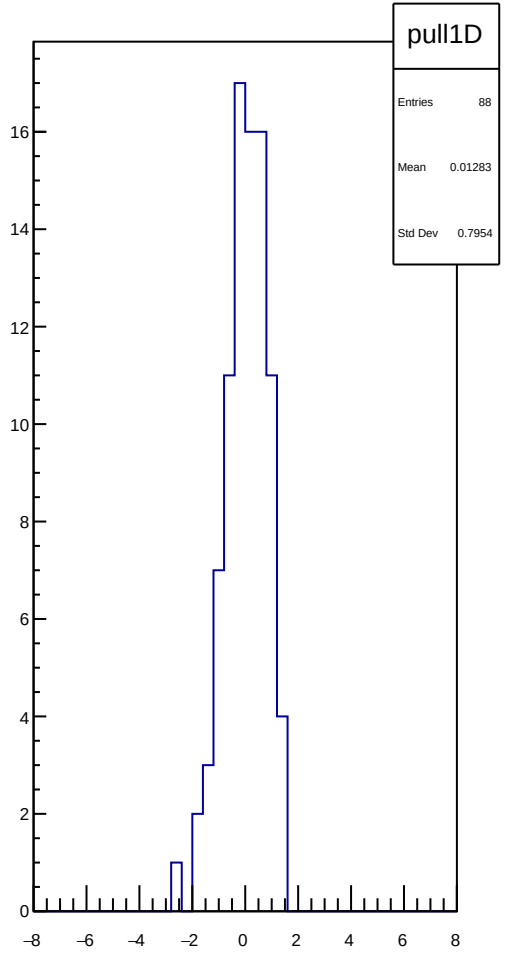

pull1D
Entries 88
Mean 0.01283
Std Dev 0.7954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

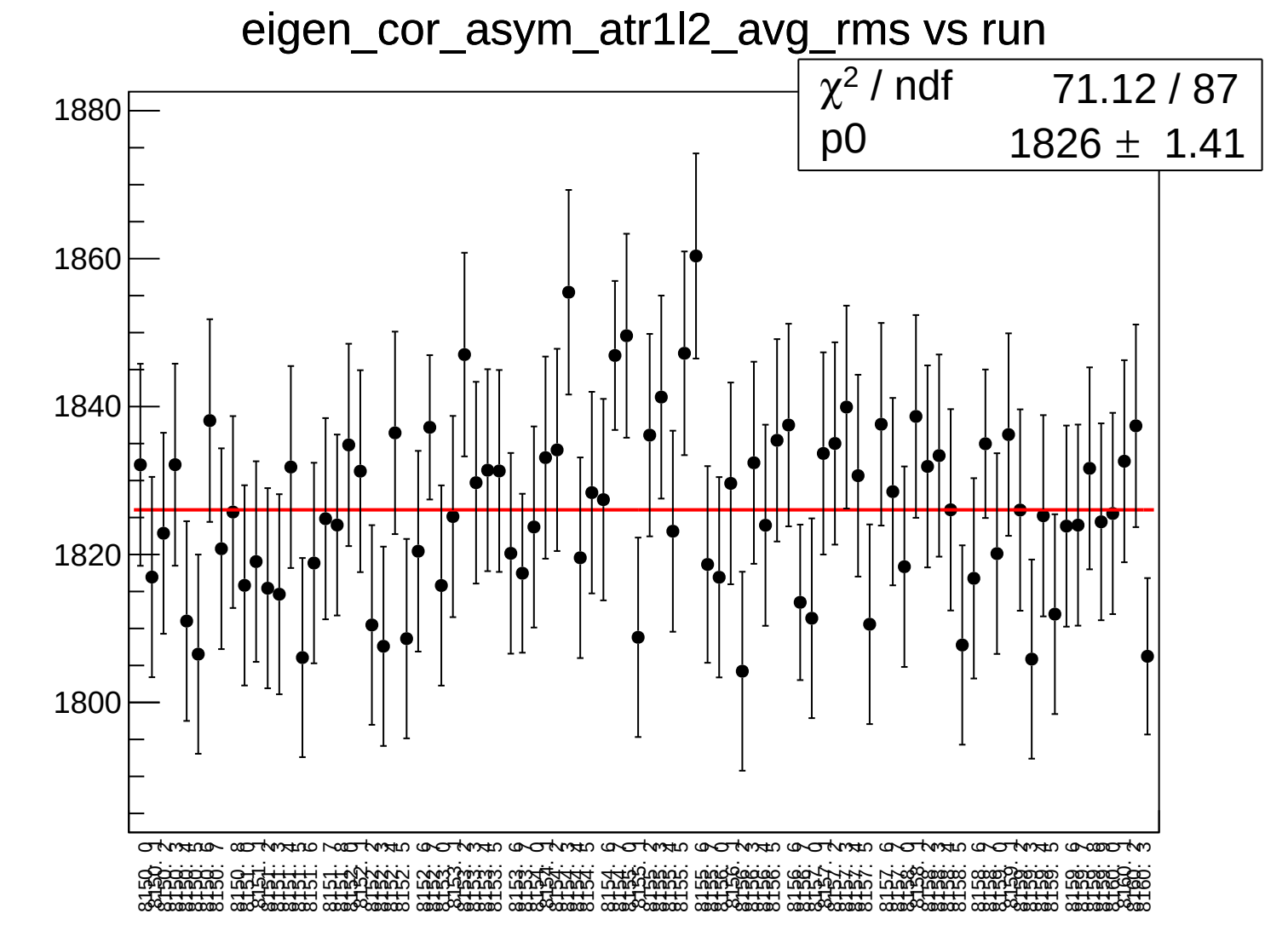

cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 71.12 / 87
p0 1826 ± 1.41
1880
1860
1840
1820
1800

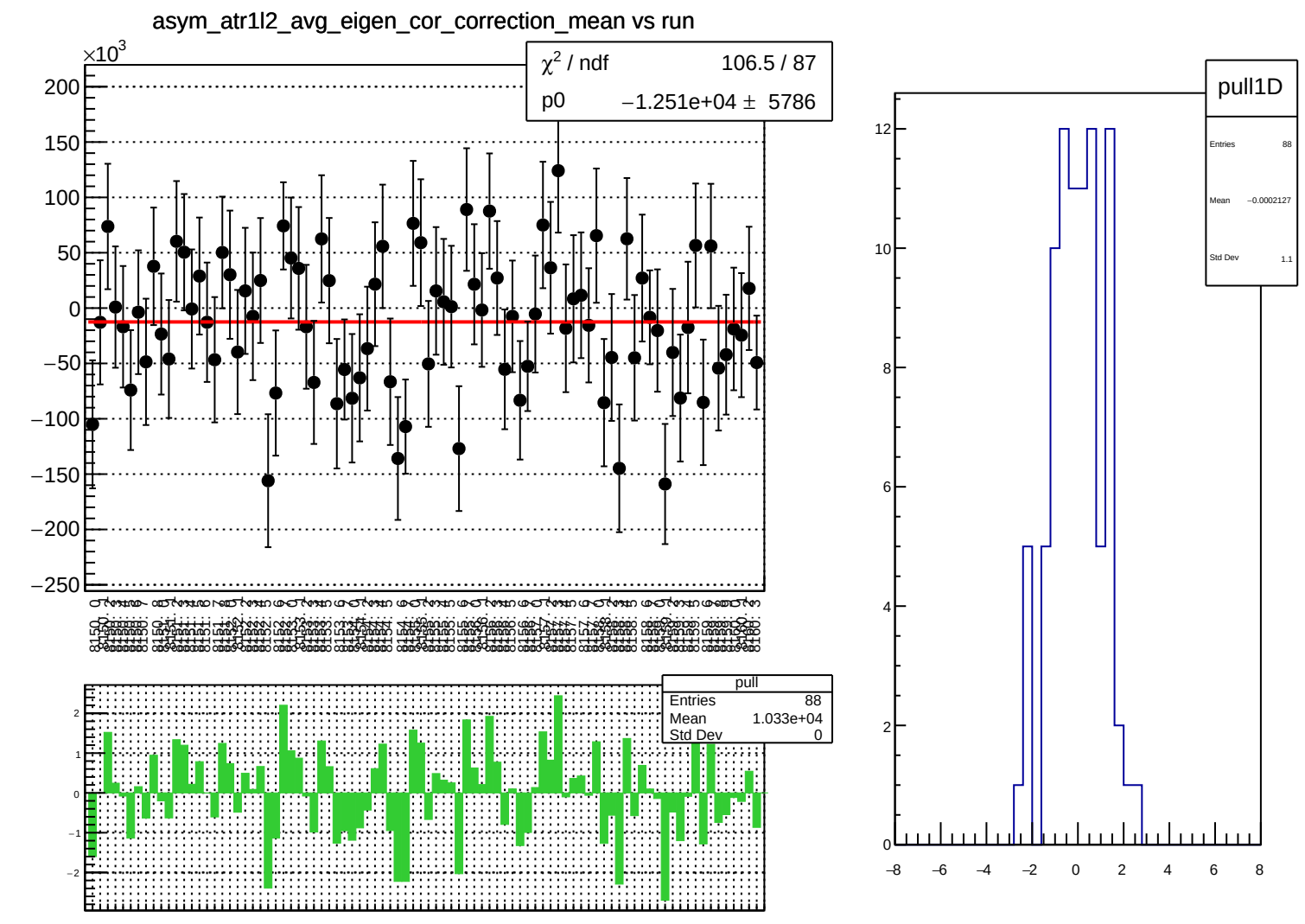

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 106.5 / 87
p0 −1.251e+04 ± 5786
pull
Entries 88
Mean 1.033e+04
Std Dev 0
pull1D
Entries 88
Mean −0.0002127
Std Dev 1.1

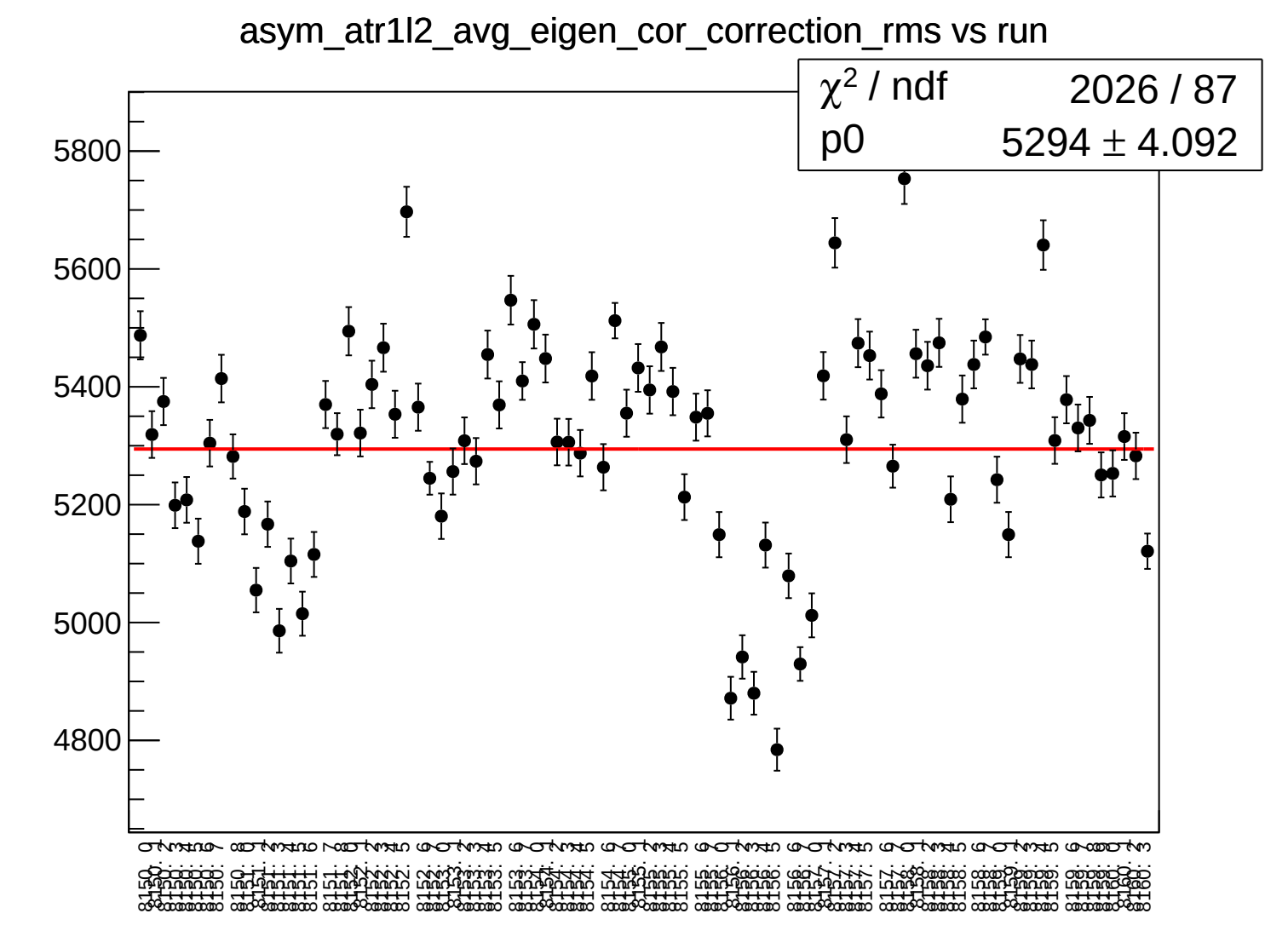

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 2026 / 87
p0 5294 ± 4.092
5800
5600
5400
5200
5000
4800

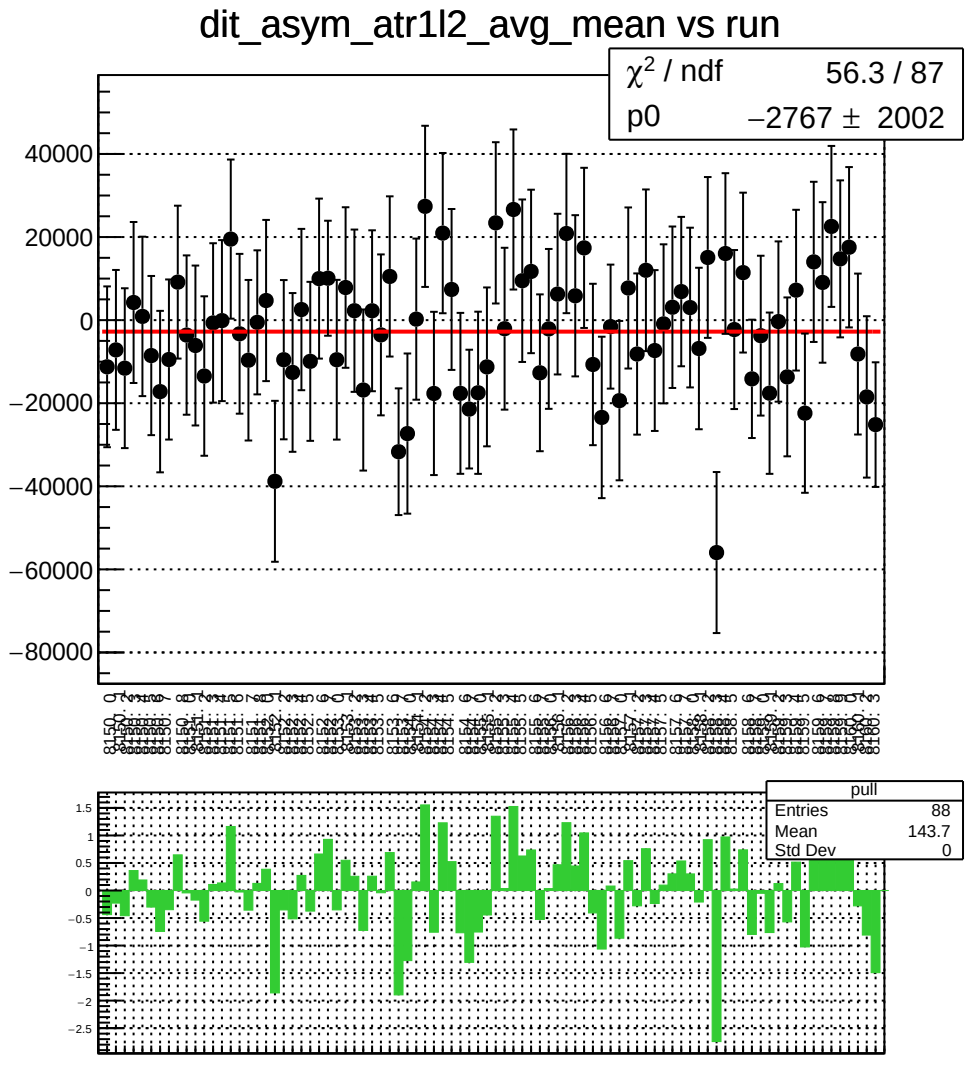

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 55.69 / 87
p0 −2630 ± 1995
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 151.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

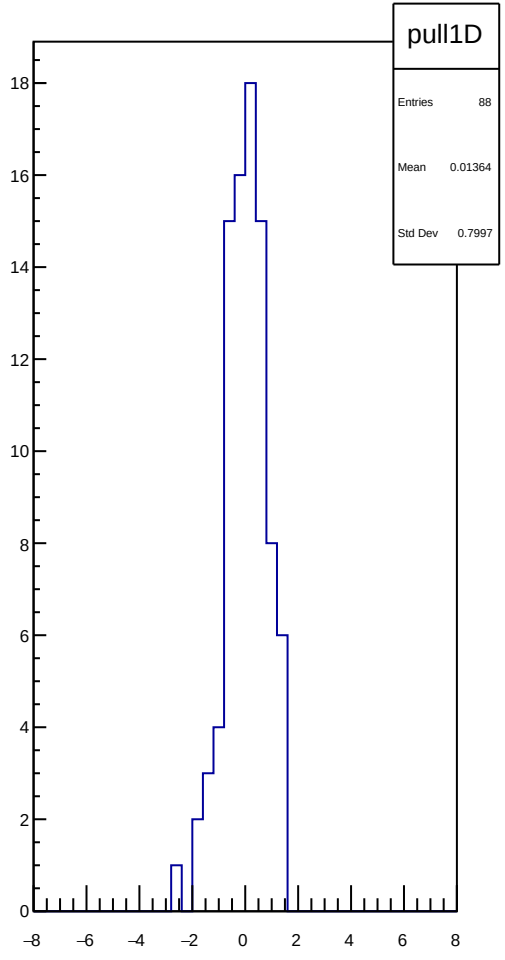

pull1D
Entries 88
Mean 0.01283
Std Dev 0.7954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

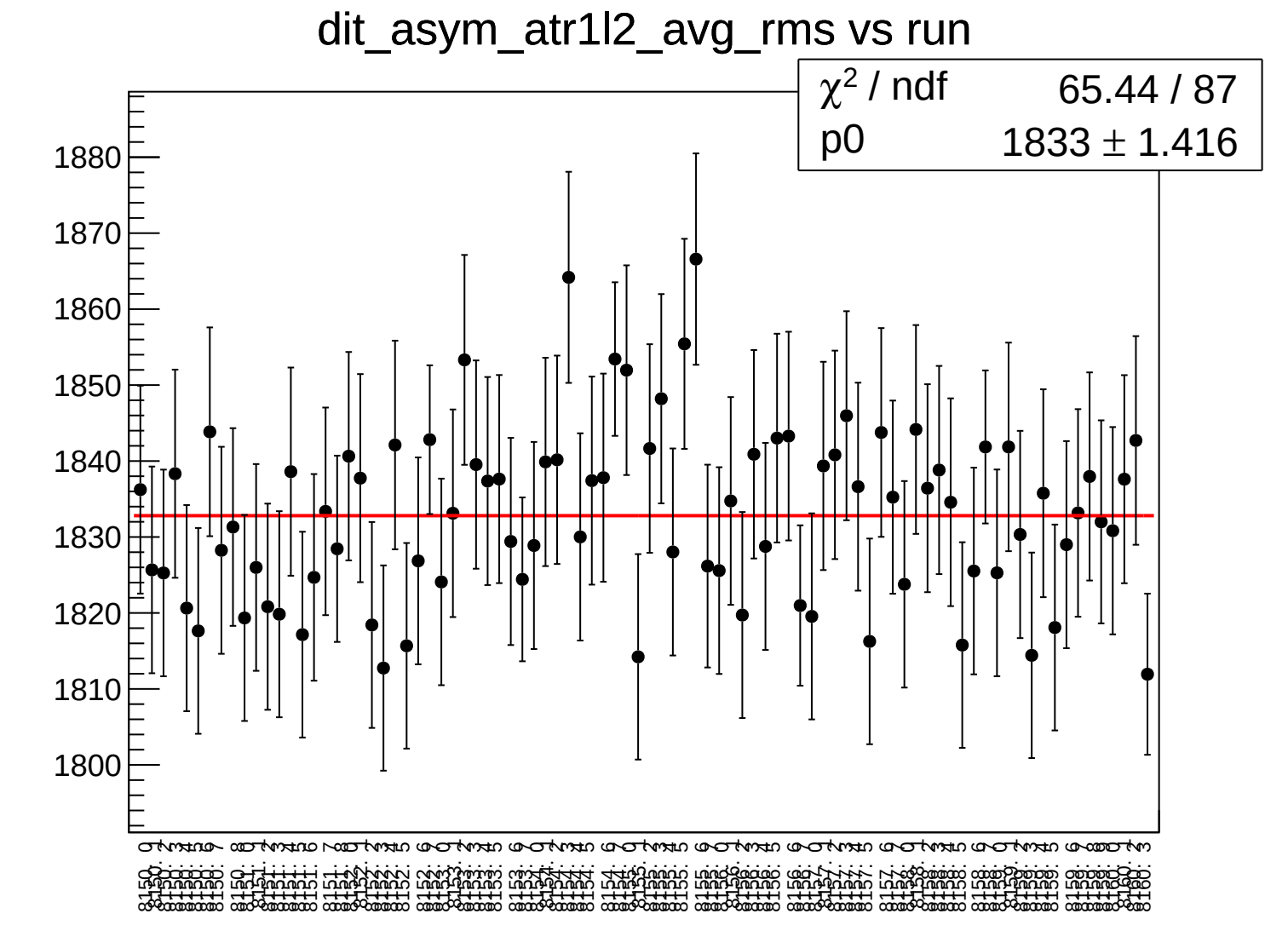

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 71.12 / 87
p0 1826 ± 1.41
1880
1860
1840
1820
1800

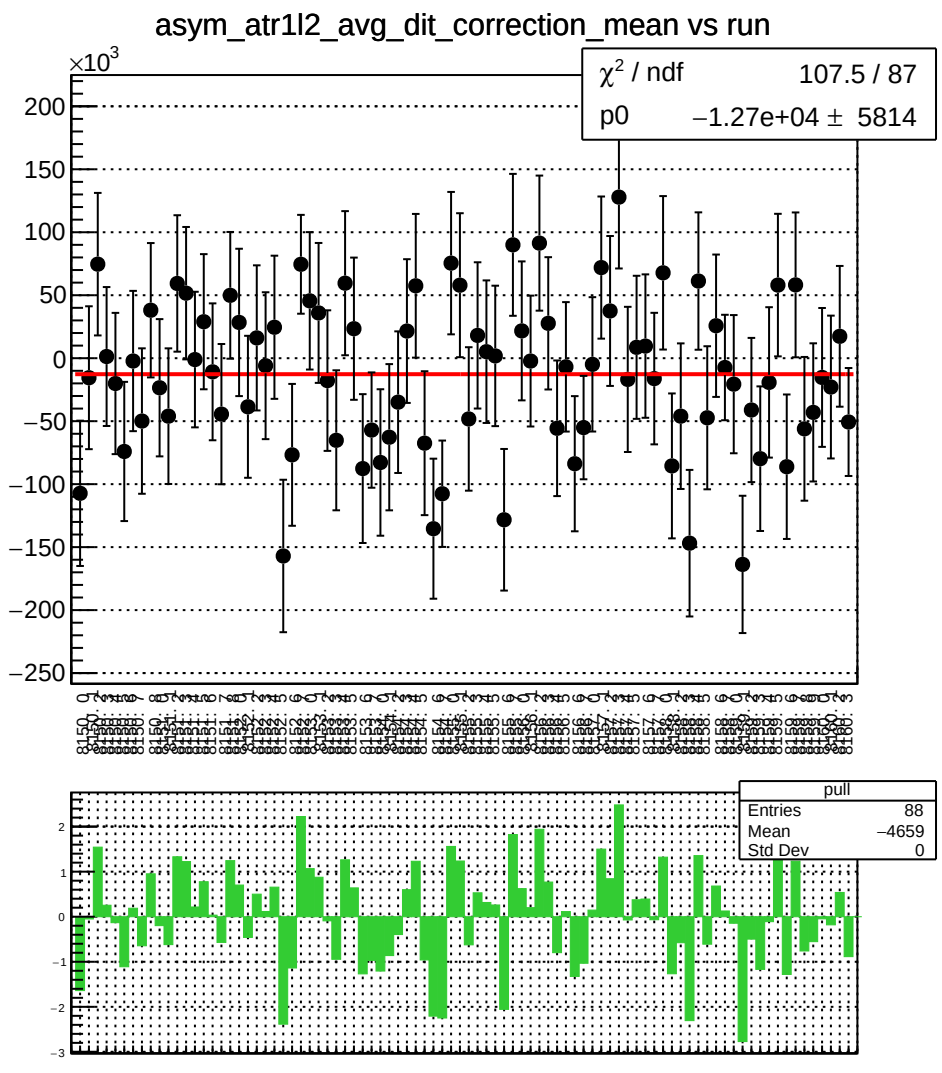

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.5 / 87
p0 −1.251e+04 ± 5786
pull
Entries 88
Mean 1.033e+04
Std Dev 0
pull1D
Entries 88
Mean −0.0002127
Std Dev 1.1

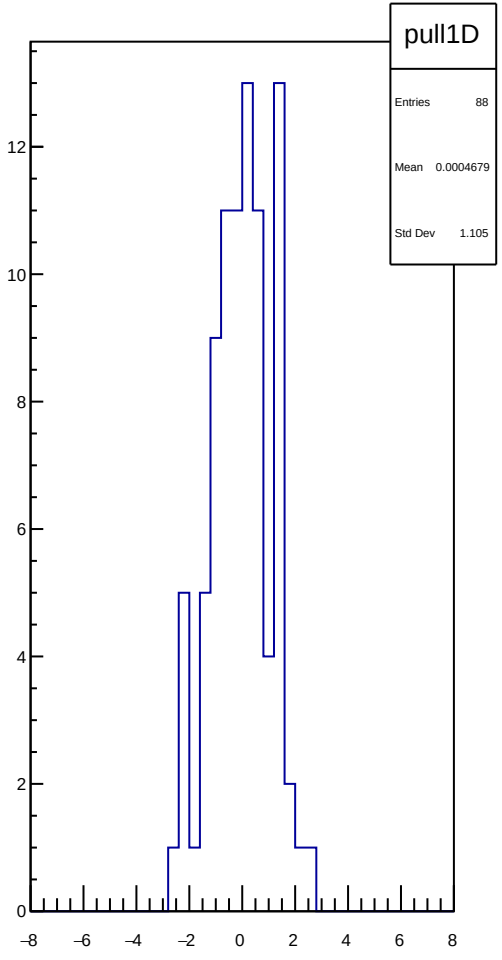

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2026 / 87
p0 5294 ± 4.092
5800
5600
5400
5200
5000
4800

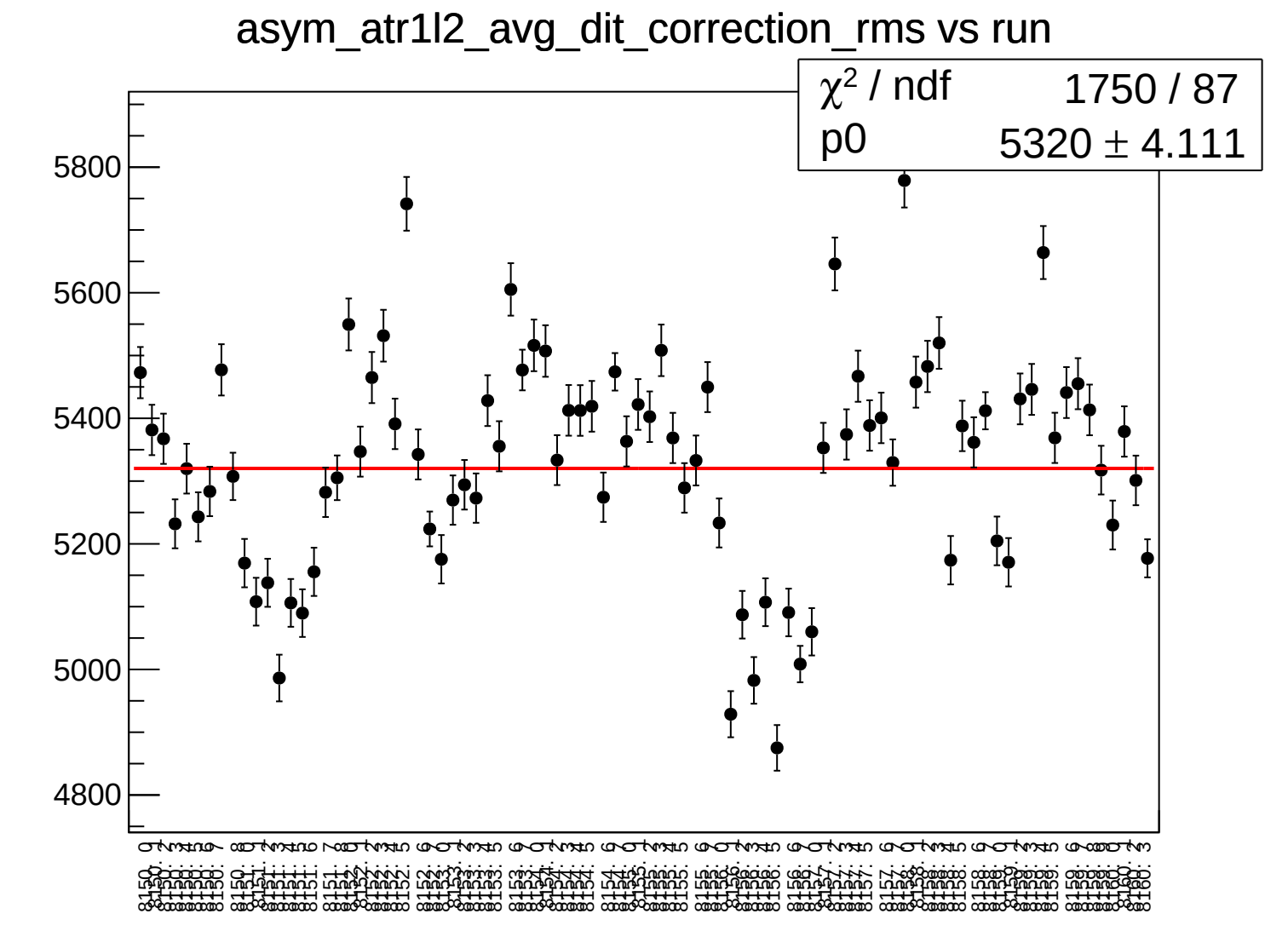

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 56.3 / 87
p0 −2767 ± 2002
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 143.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

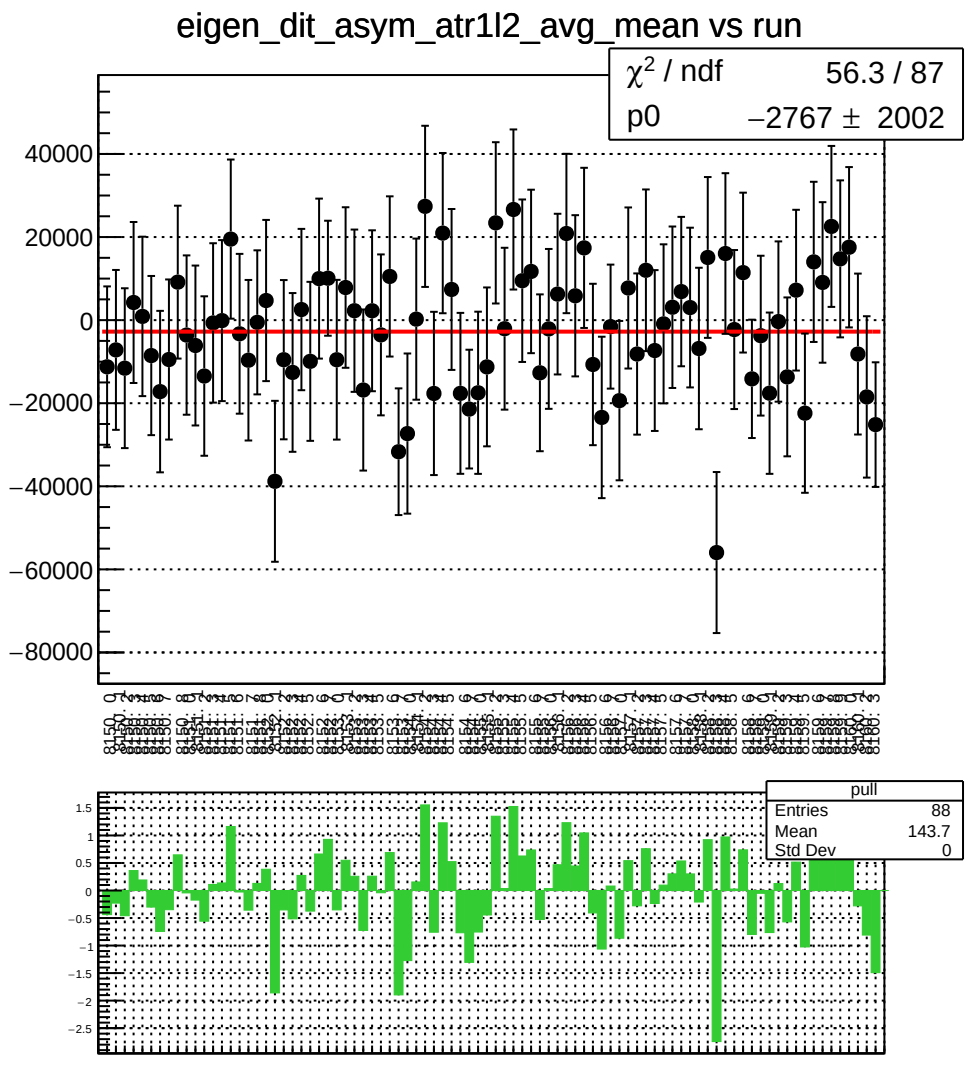

pull1D
Entries 88
Mean 0.01364
Std Dev 0.7997
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

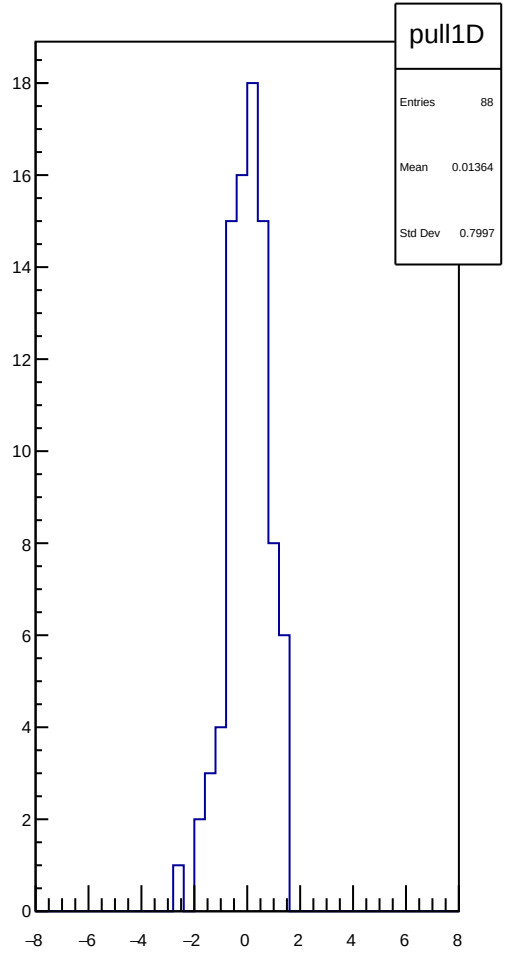

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 65.44 / 87
p0 1833 ± 1.416
1880
1870
1860
1850
1840
1830
1820
1810
1800

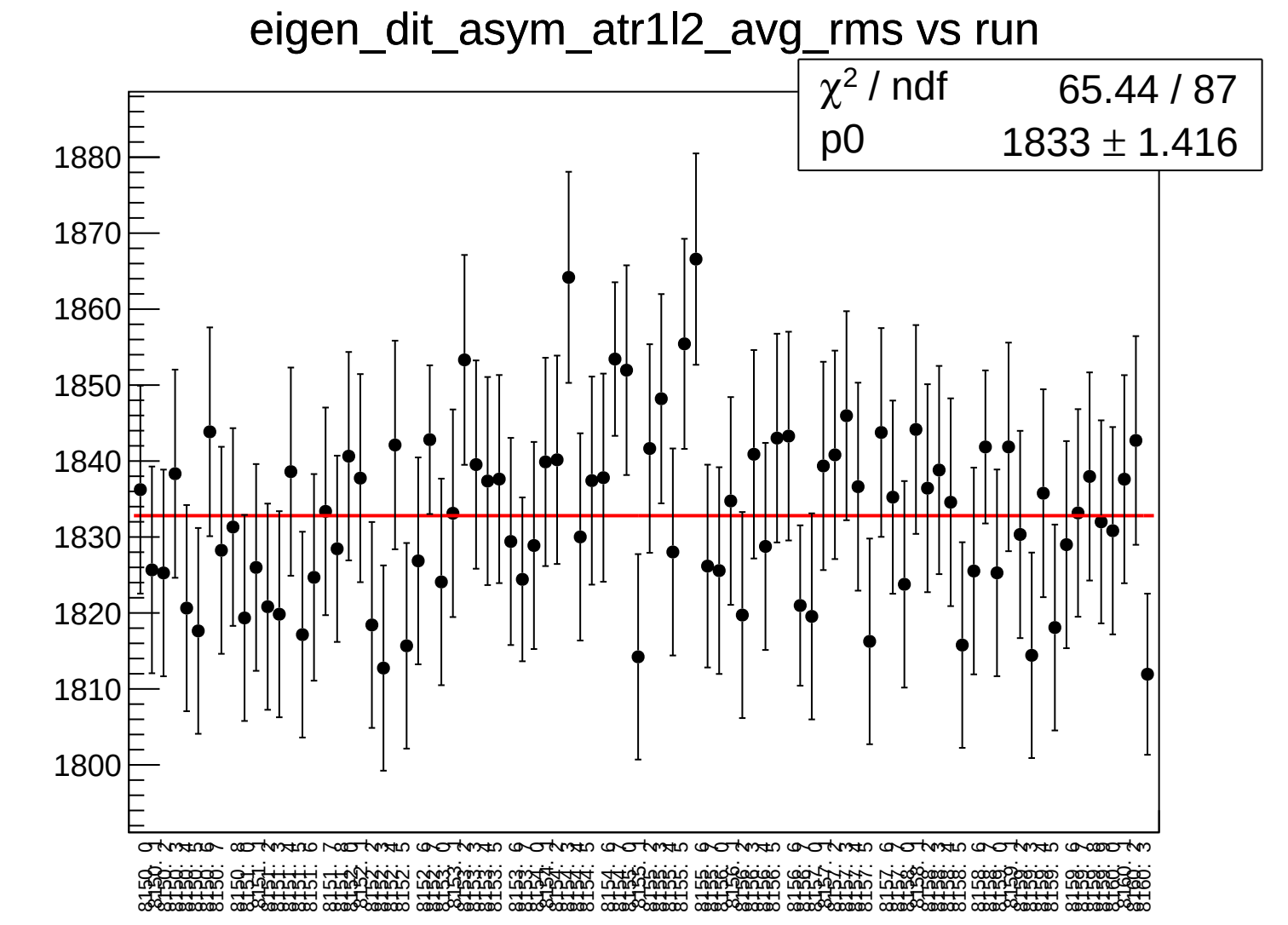

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107.5 / 87
p0 −1.27e+04 ± 5814
pull
Entries 88
Mean −4659
Std Dev 0

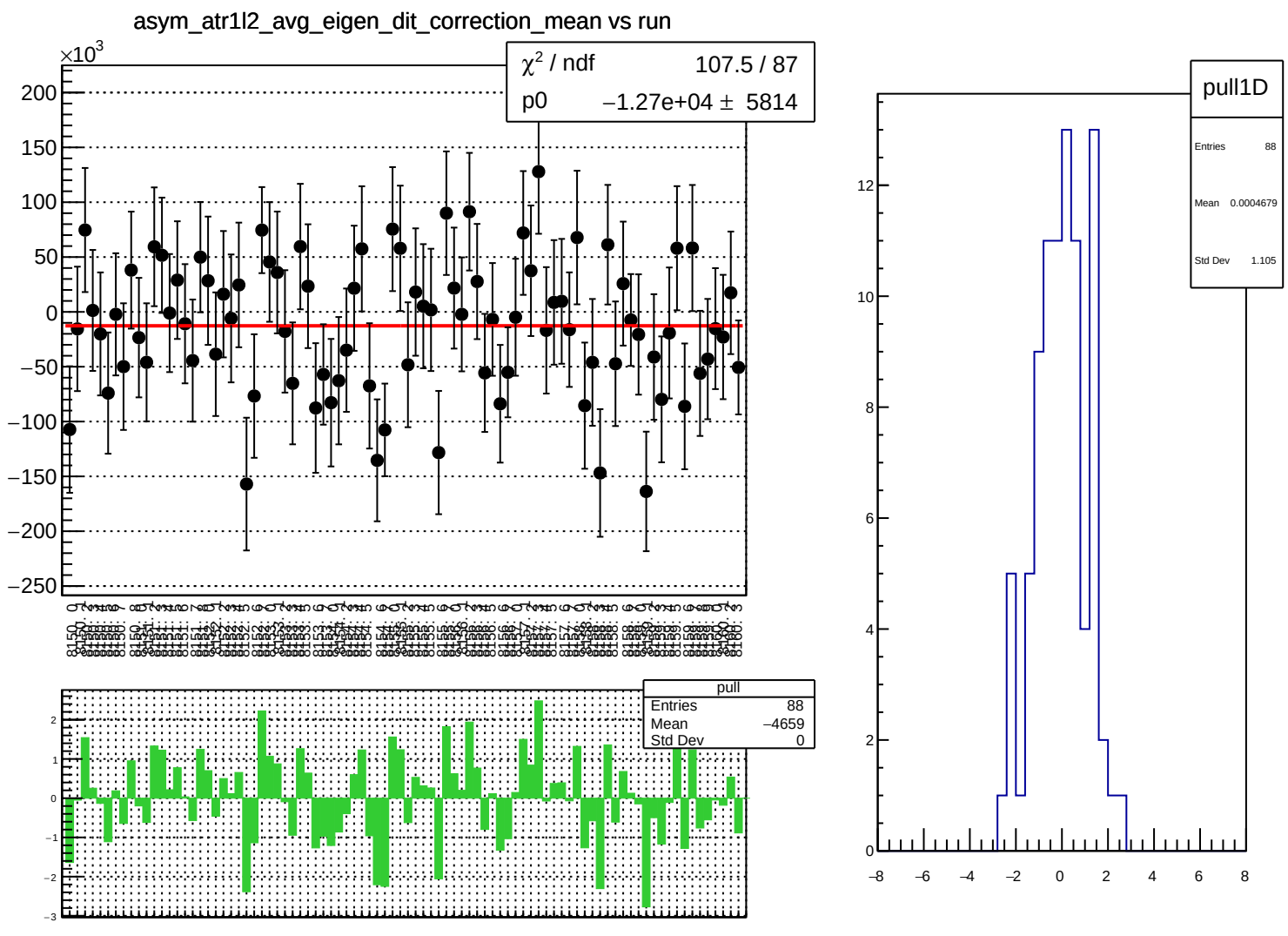

pull1D
Entries 88
Mean 0.0004679
Std Dev 1.105

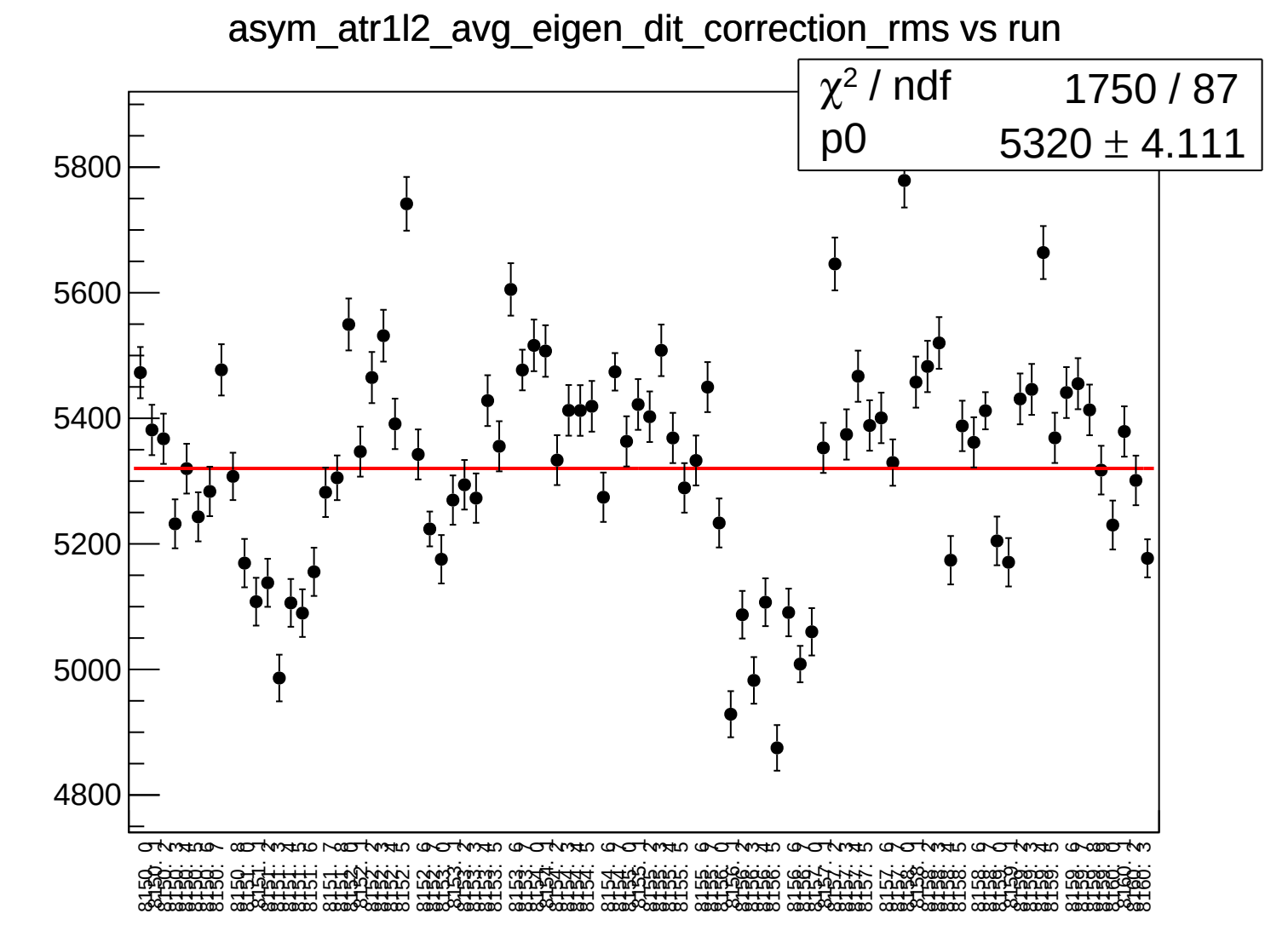

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1750 / 87
p0 5320 ± 4.111
5800
5600
5400
5200
5000
4800

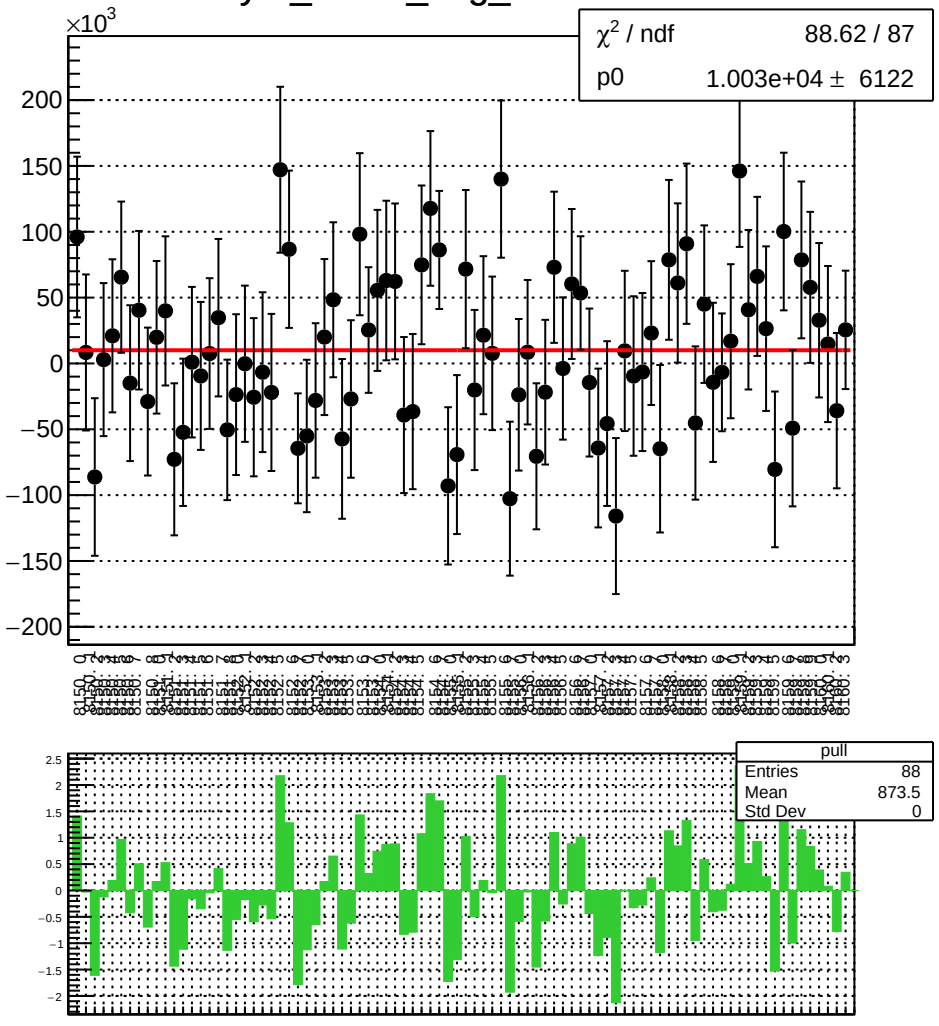

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 56.3 / 87
p0 −2767 ± 2002
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 143.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

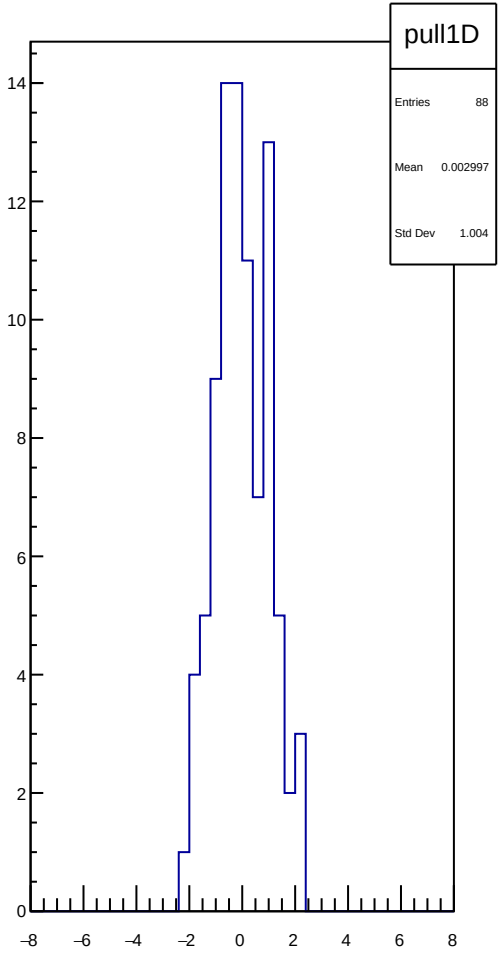

pull1D
Entries 88
Mean 0.01364
Std Dev 0.7997
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

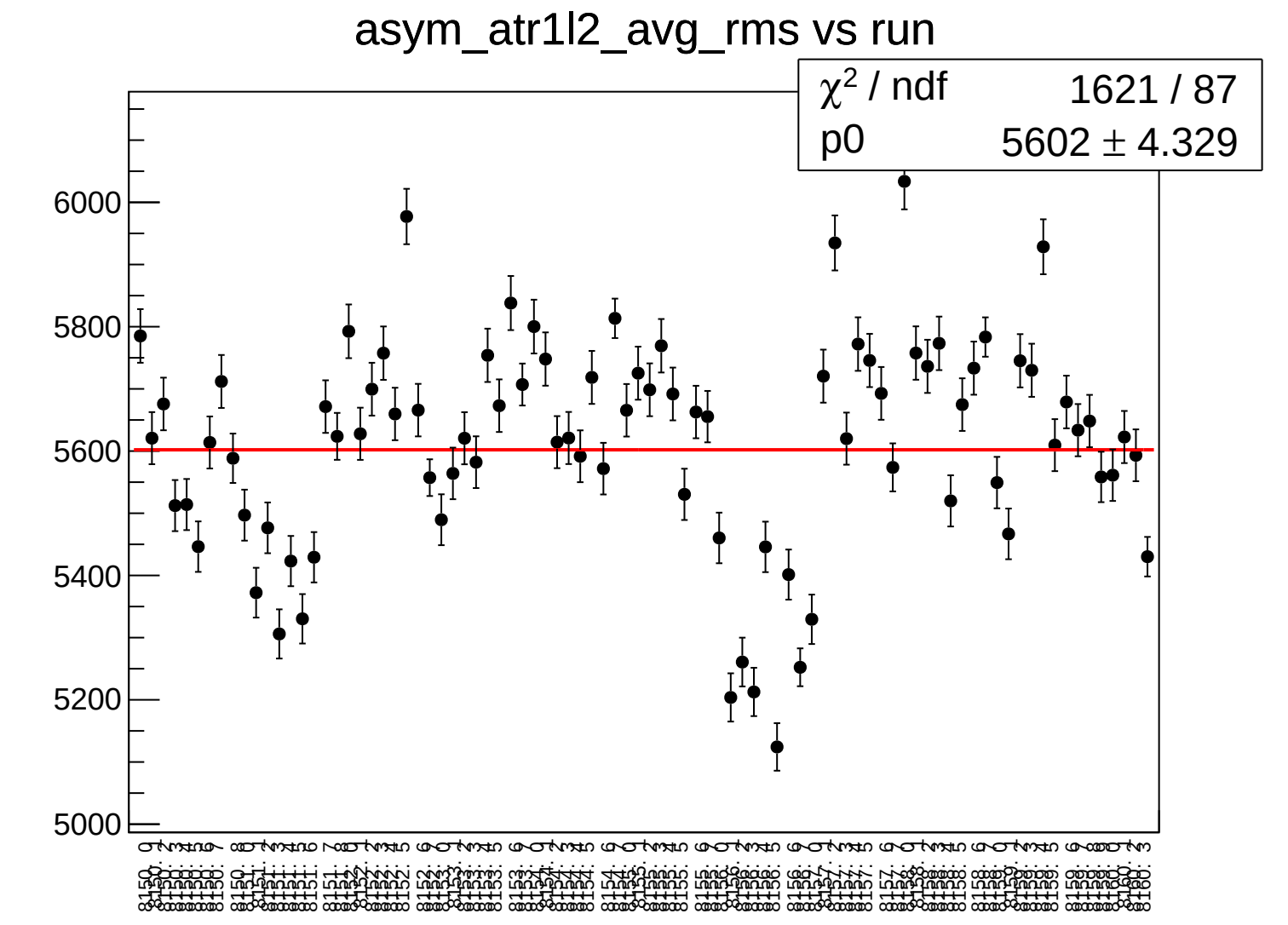

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 65.44 / 87
p0 1833 ± 1.416
1880
1870
1860
1850
1840
1830
1820
1810
1800

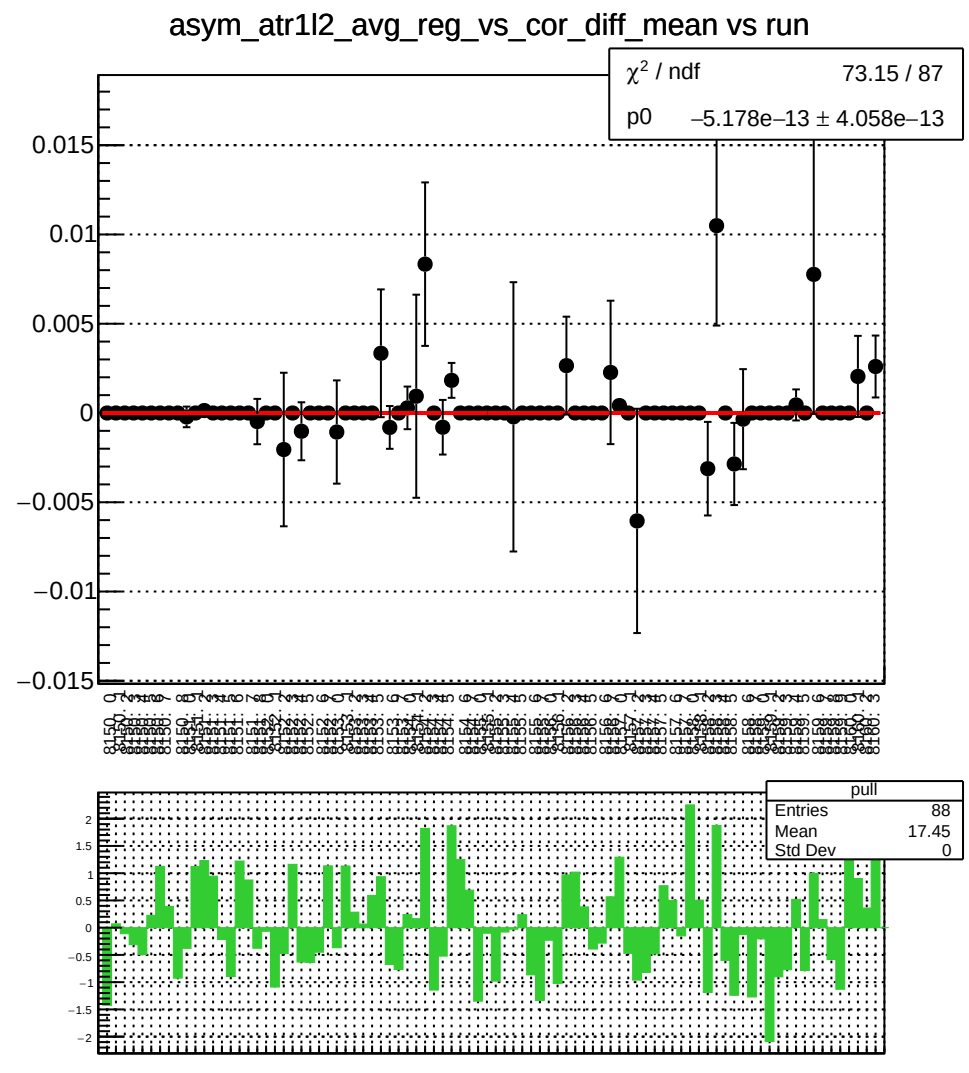

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.5 / 87
p0 −1.27e+04 ± 5814
pull
Entries 88
Mean −4659
Std Dev 0
pull1D
Entries 88
Mean 0.0004679
Std Dev 1.105

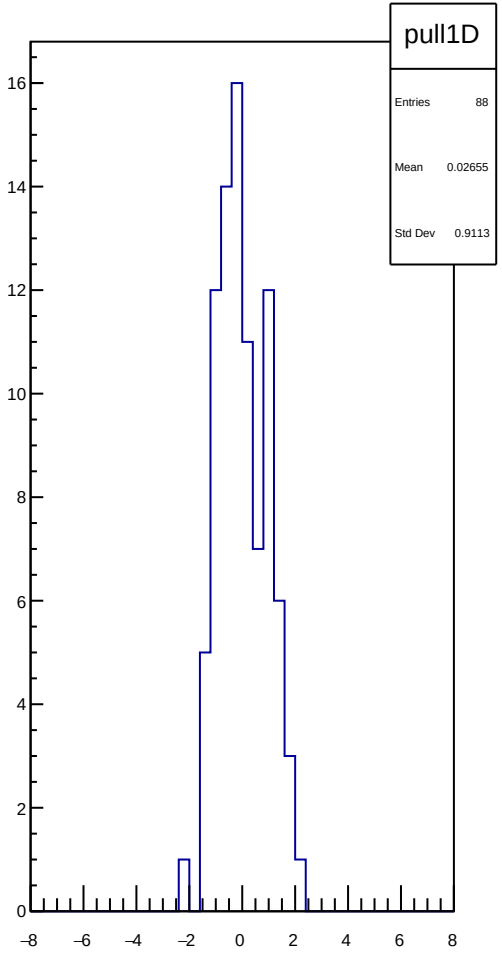

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1750 / 87
p0 5320 ± 4.111
5800
5600
5400
5200
5000
4800

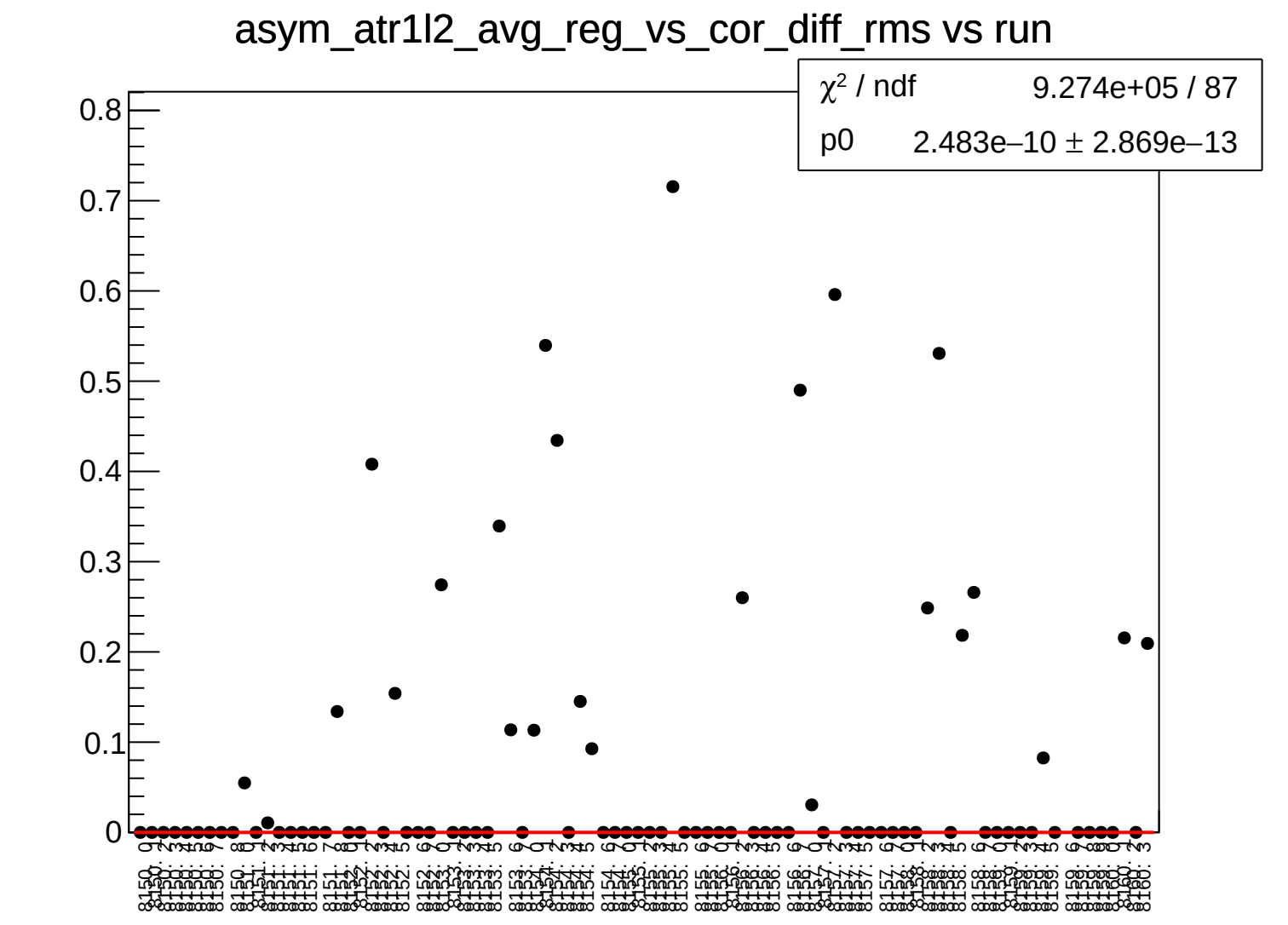

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 88.62 / 87
p0 1.003e+04 ± 6122
pull
Entries 88
Mean 873.5
Std Dev 0

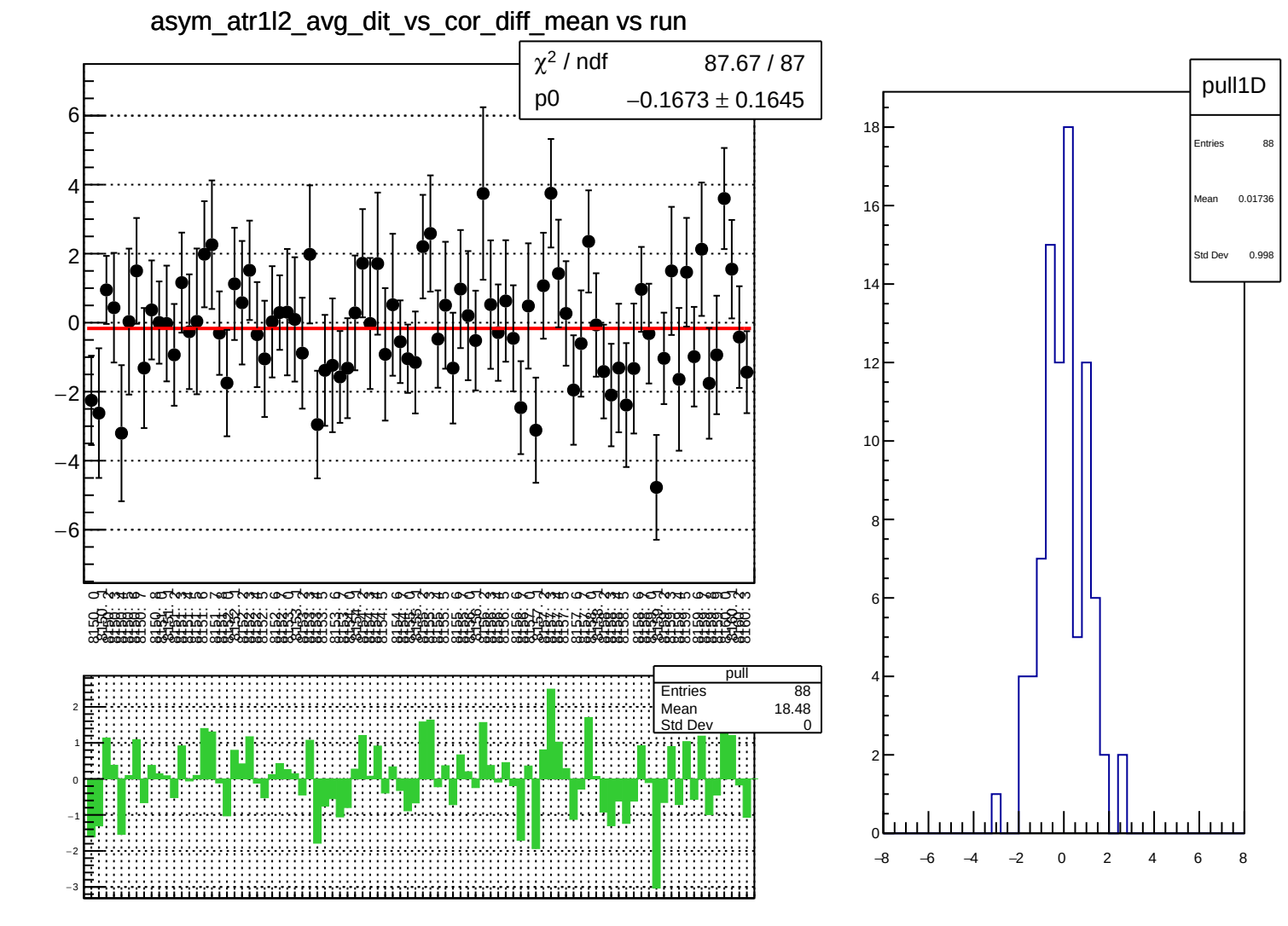

pull1D
Entries 88
Mean 0.002997
Std Dev 1.004

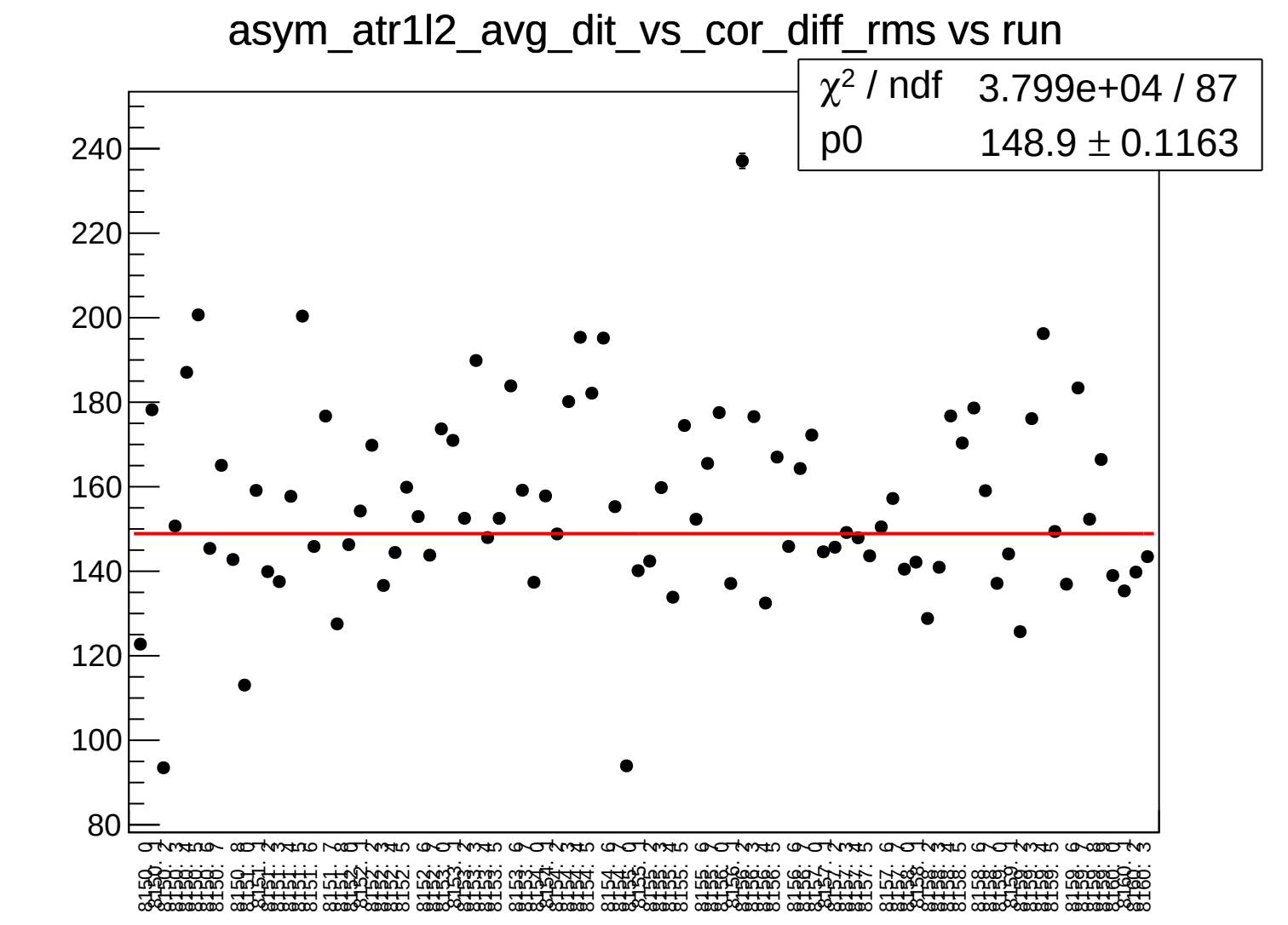

asym_atr1l2_avg_rms vs run
χ² / ndf 1621 / 87
p0 5602 ± 4.329
6000
5800
5600
5400
5200
5000

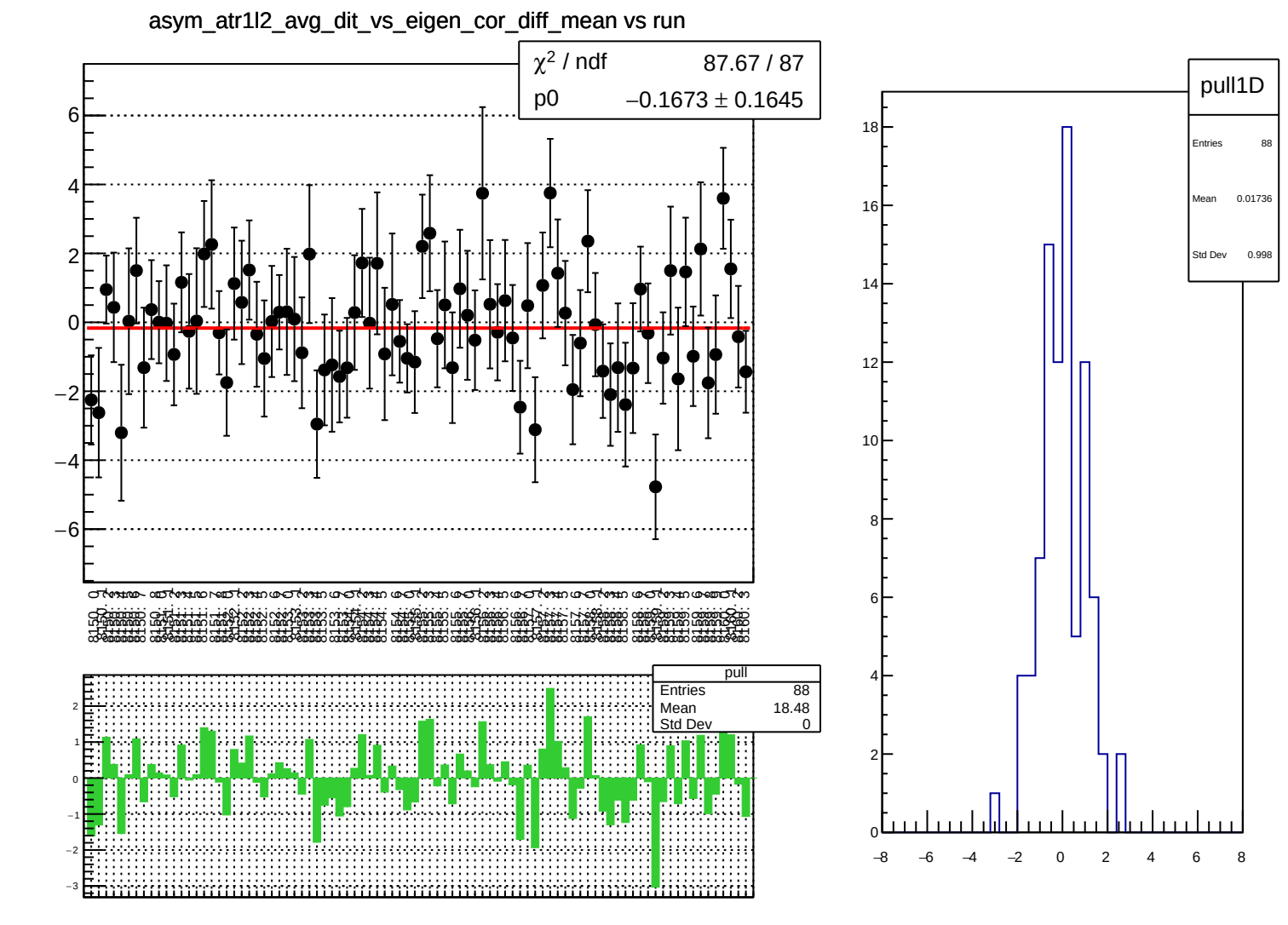

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.15 / 87
p0 −5.178e−13 ± 4.058e−13
pull
Entries 88
Mean 17.45
Std Dev 0

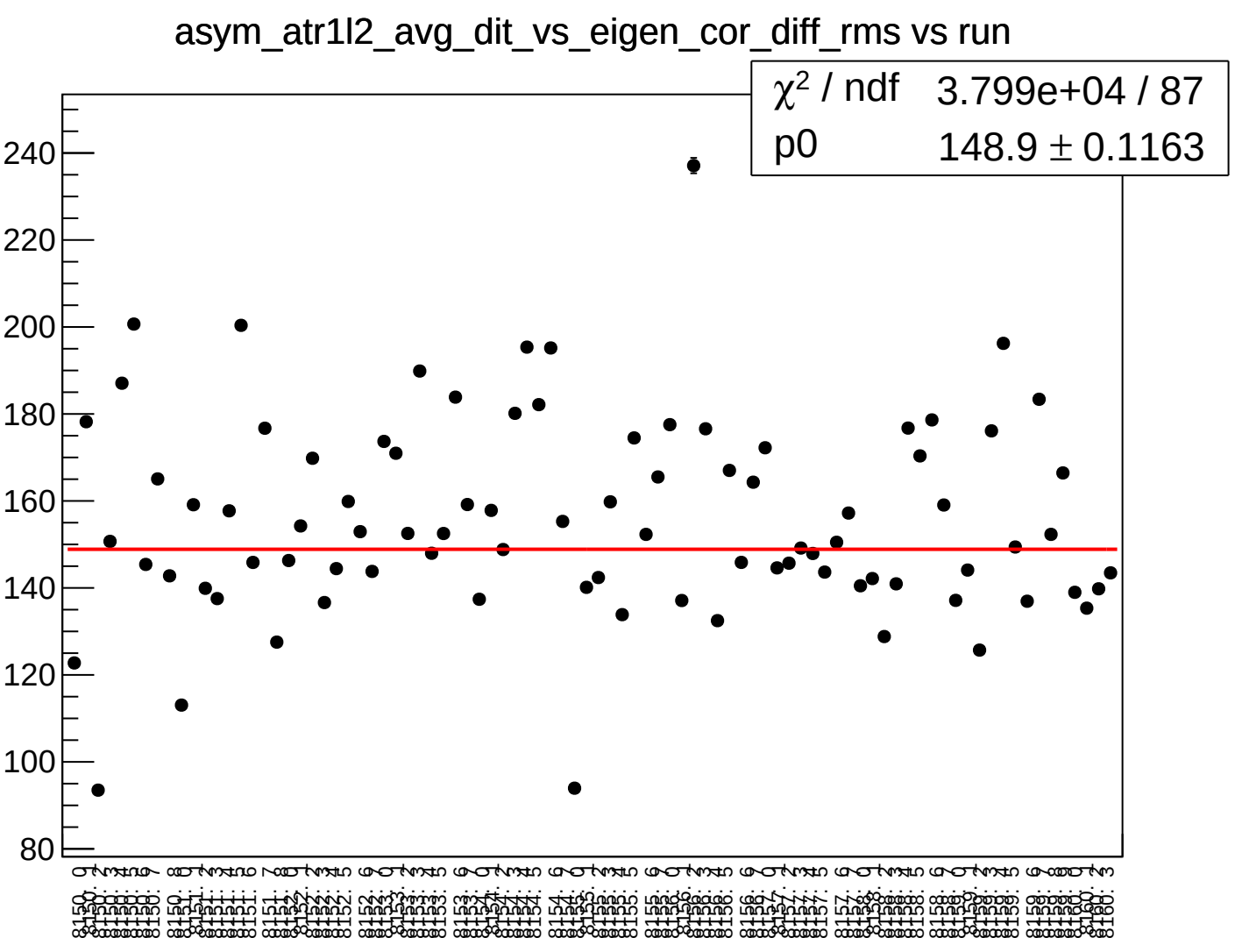

pull1D
Entries 88
Mean 0.02655
Std Dev 0.9113

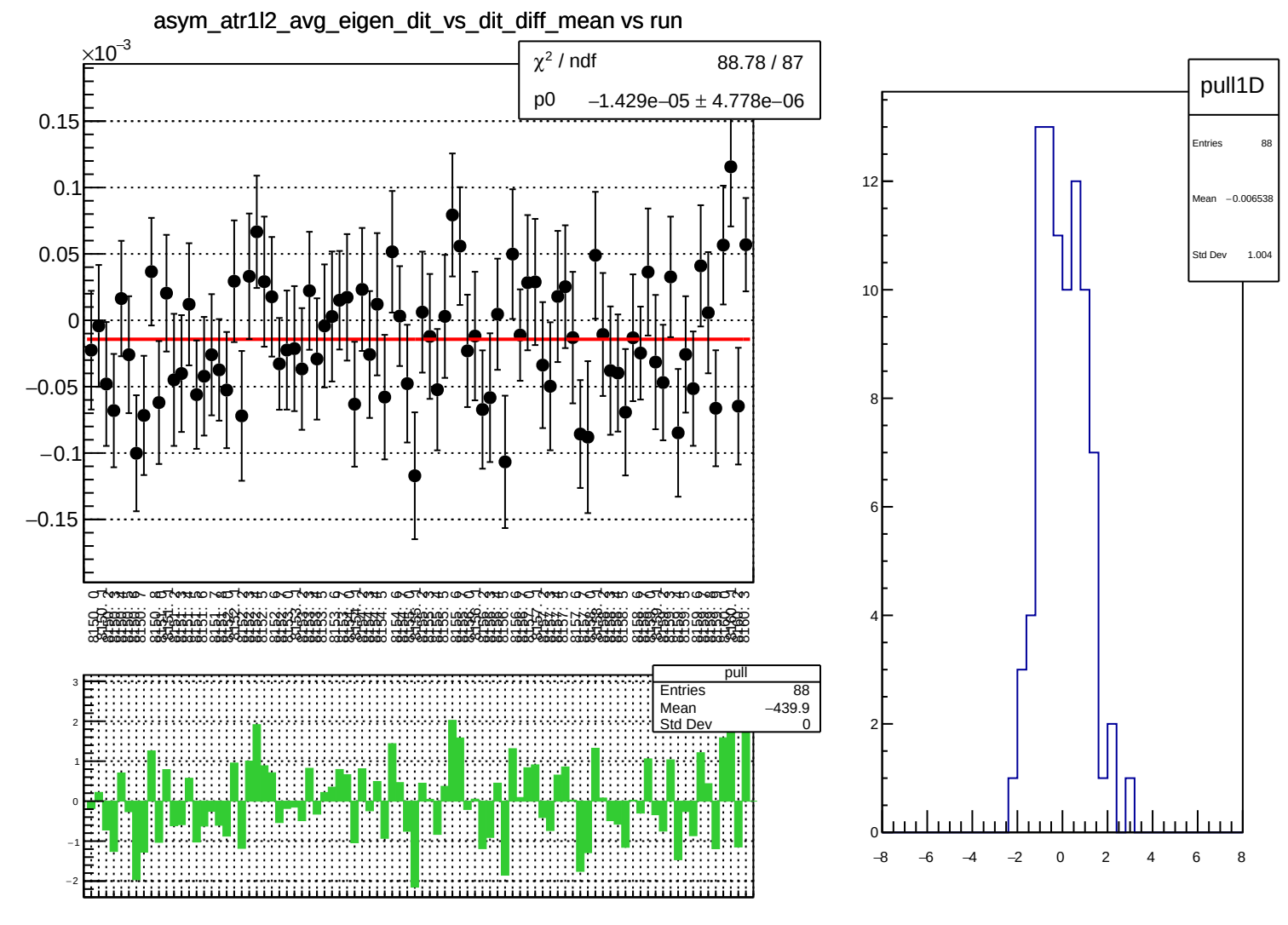

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.274e+05 / 87
p0 2.483e−10 ± 2.869e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

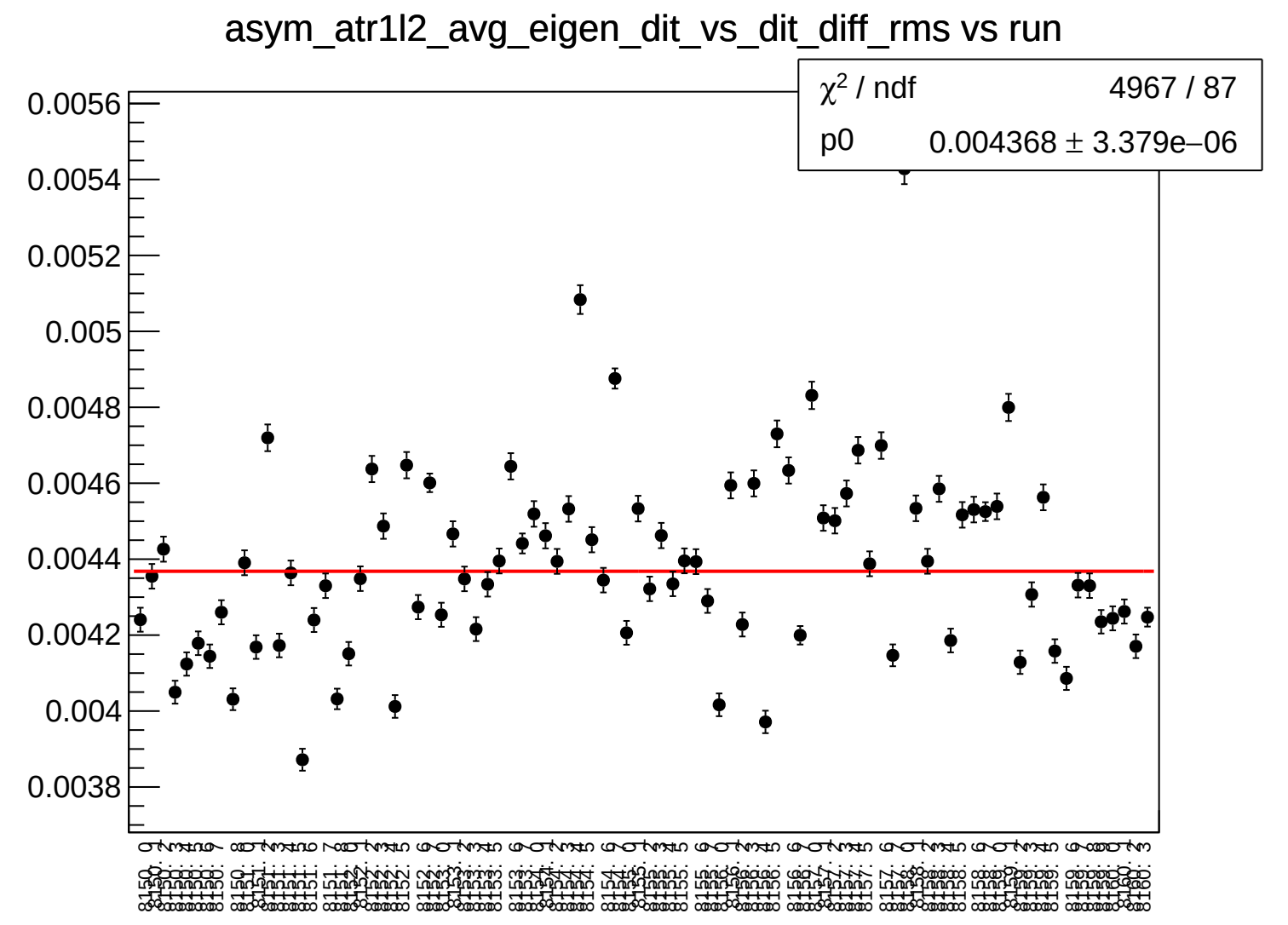

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.67 / 87
p0 −0.1673 ± 0.1645
pull
Entries 88
Mean 18.48
Std Dev 0
pull1D
Entries 88
Mean 0.01736
Std Dev 0.998

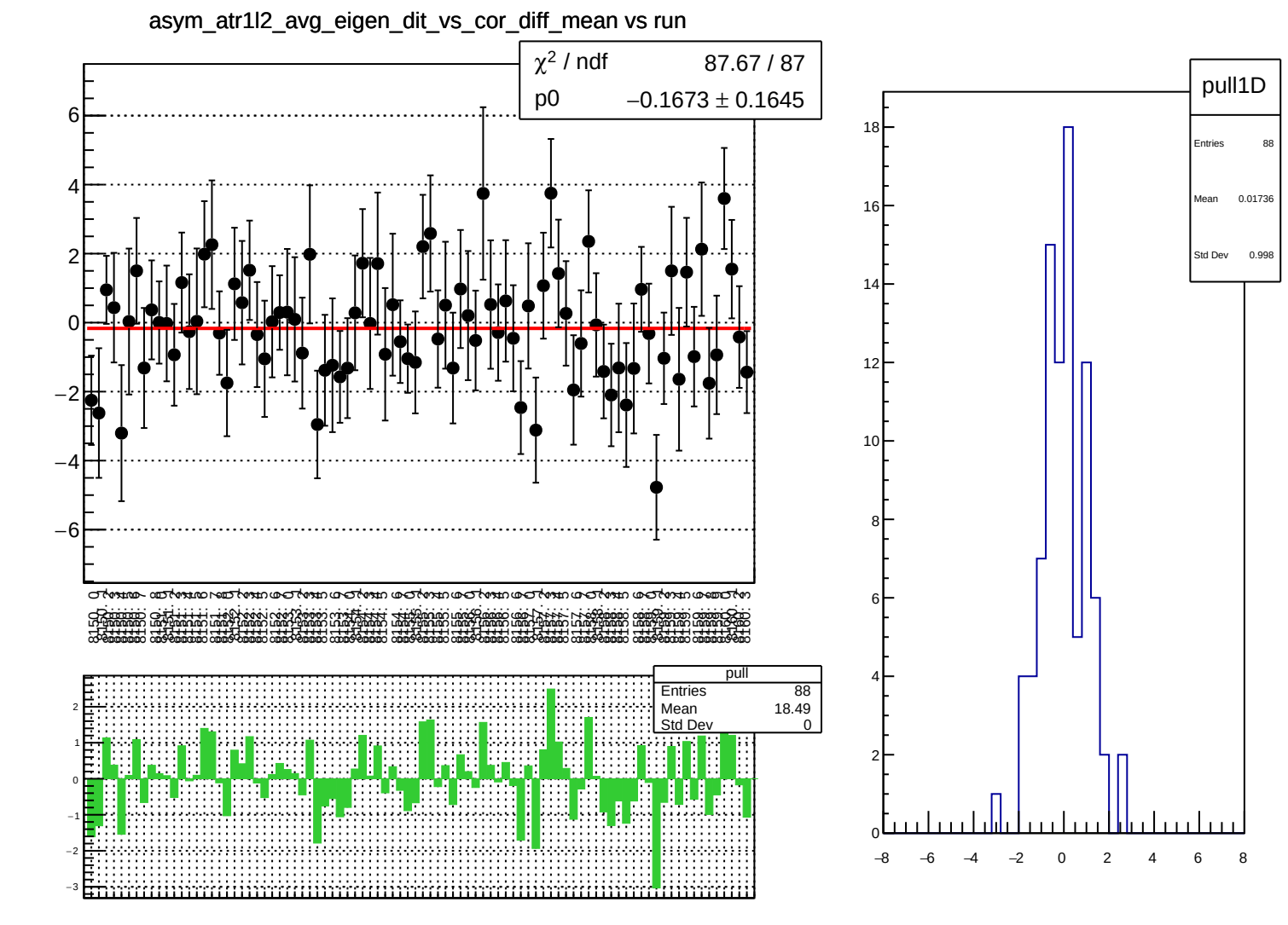

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.799e+04 / 87
p0 148.9 ± 0.1163
240
220
200
180
160
140
120
100
80

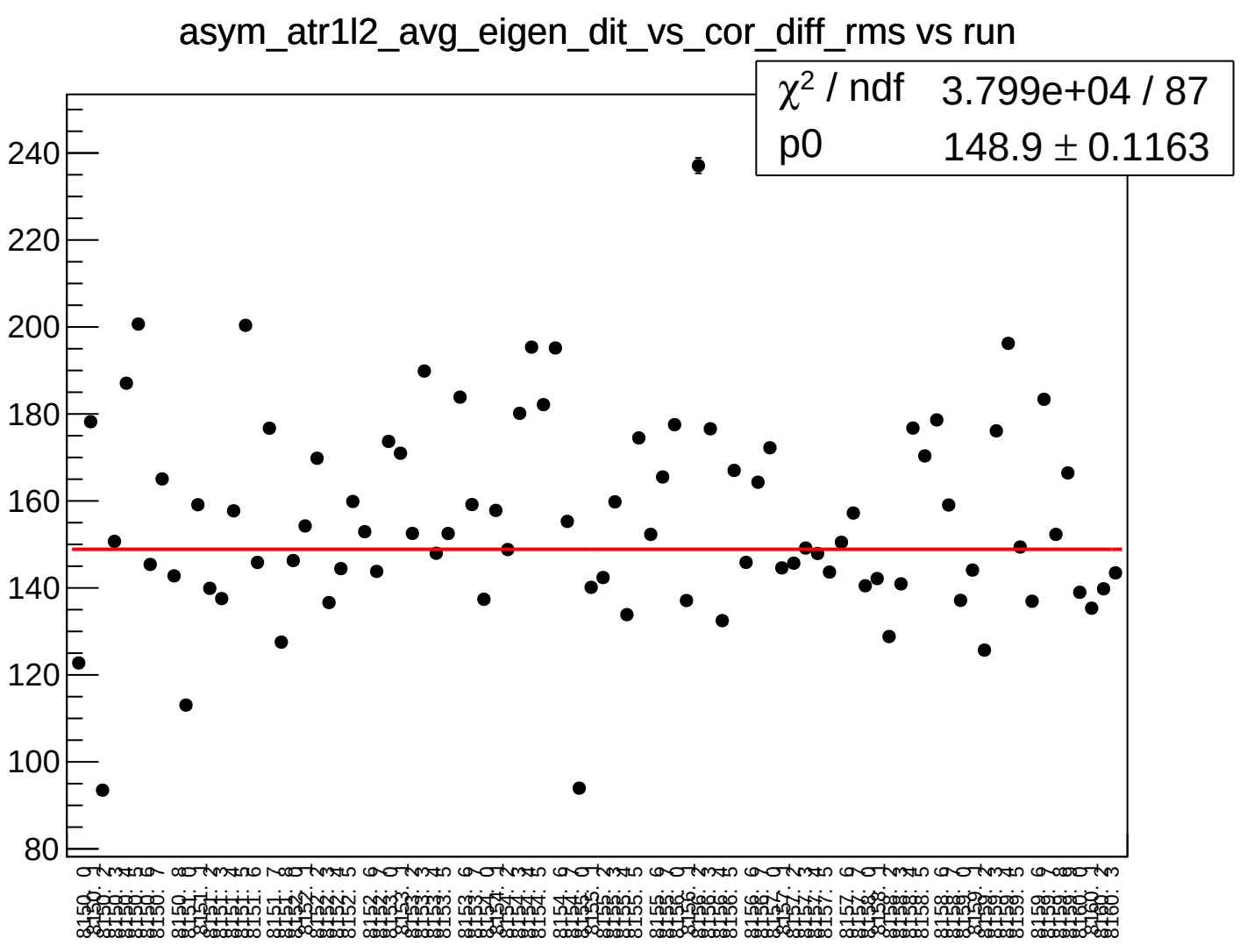

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.67 / 87
p0 −0.1673 ± 0.1645
pull
Entries 88
Mean 18.48
Std Dev 0
pull1D
Entries 88
Mean 0.01736
Std Dev 0.998

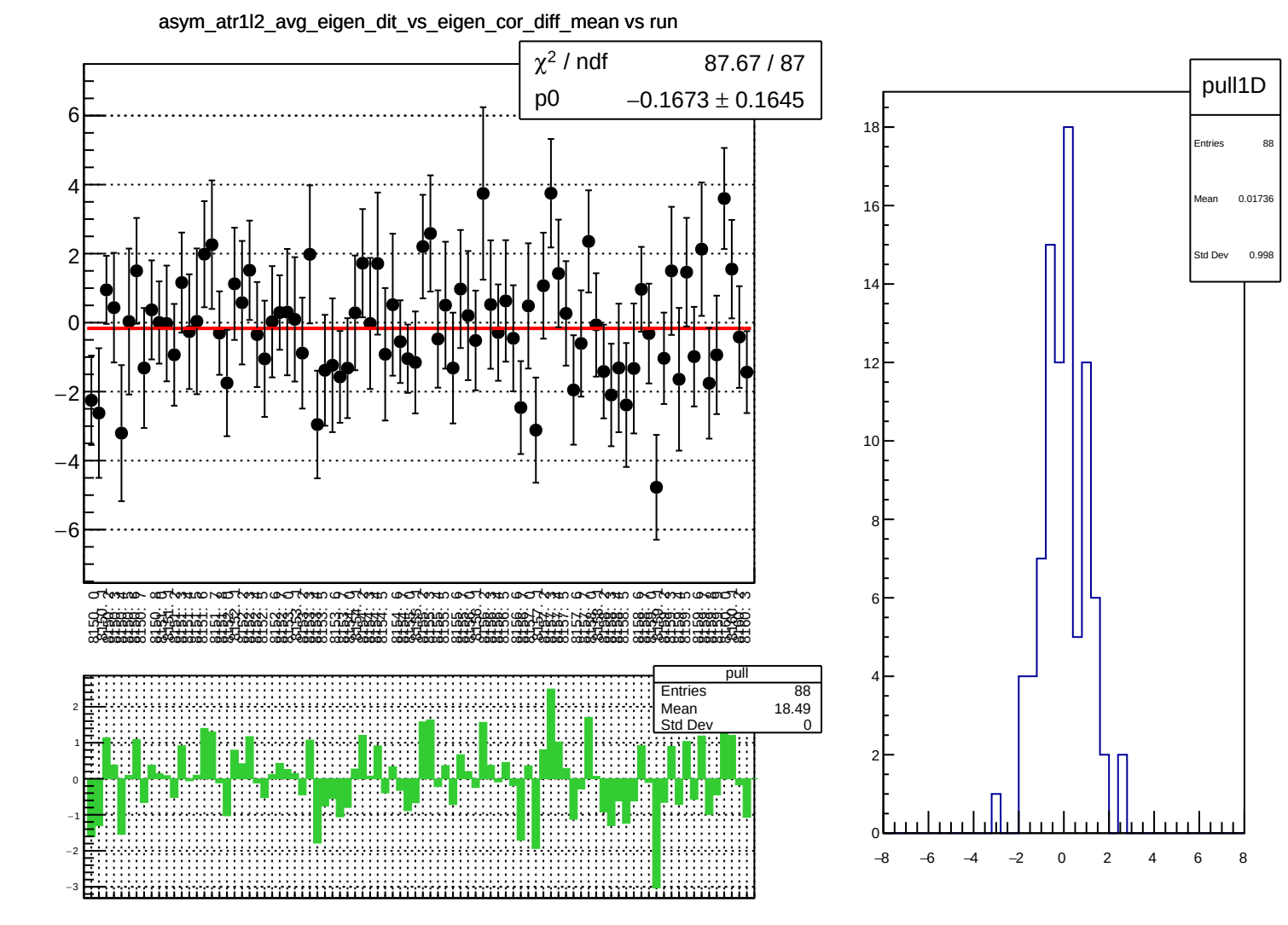

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.799e+04 / 87
p0 148.9 ± 0.1163
240
220
200
180
160
140
120
100
80

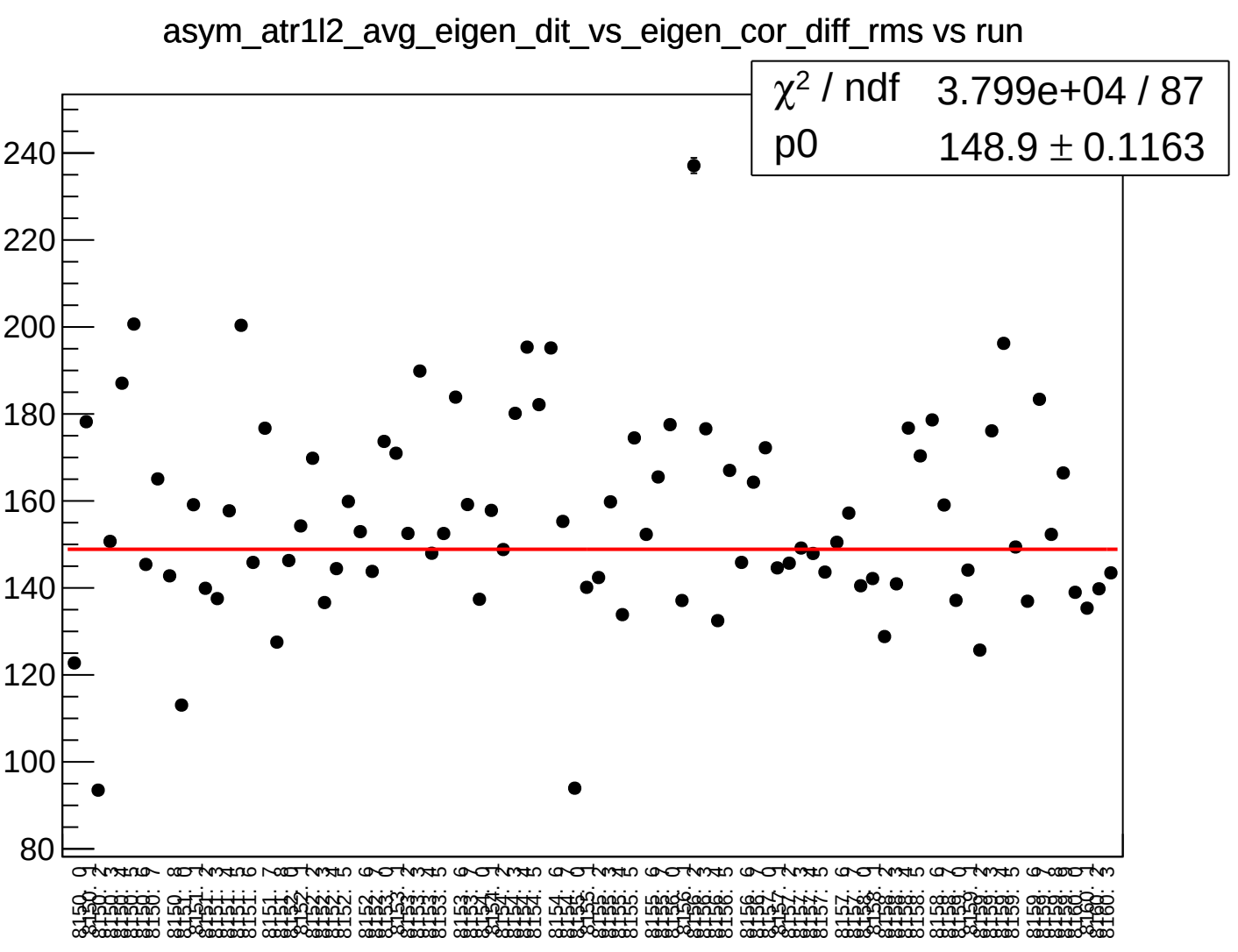

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.78 / 87
p0 −1.429e−05 ± 4.778e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean −439.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.006538
Std Dev 1.004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

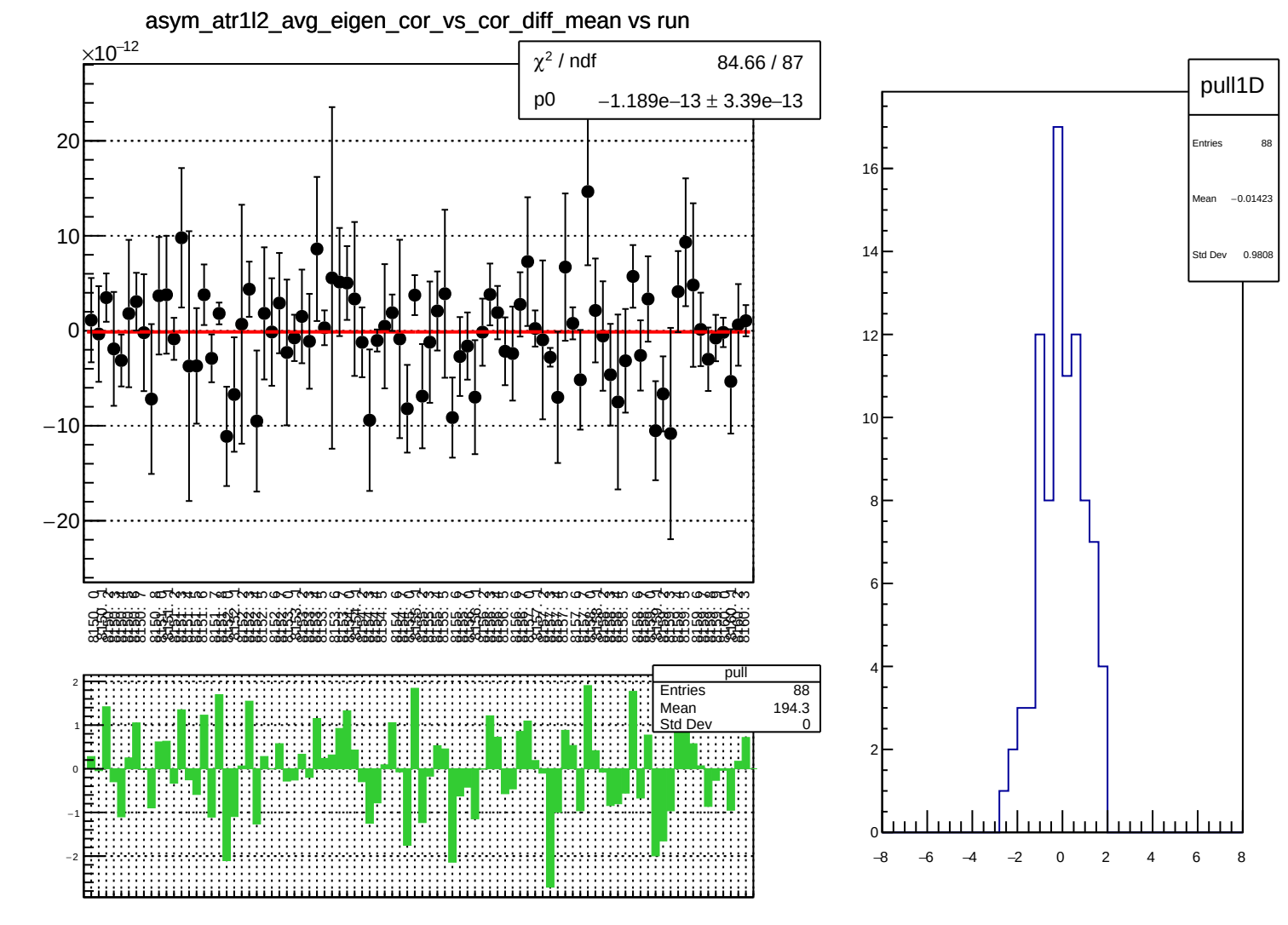

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4967 / 87
p0 0.004368 ± 3.379e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

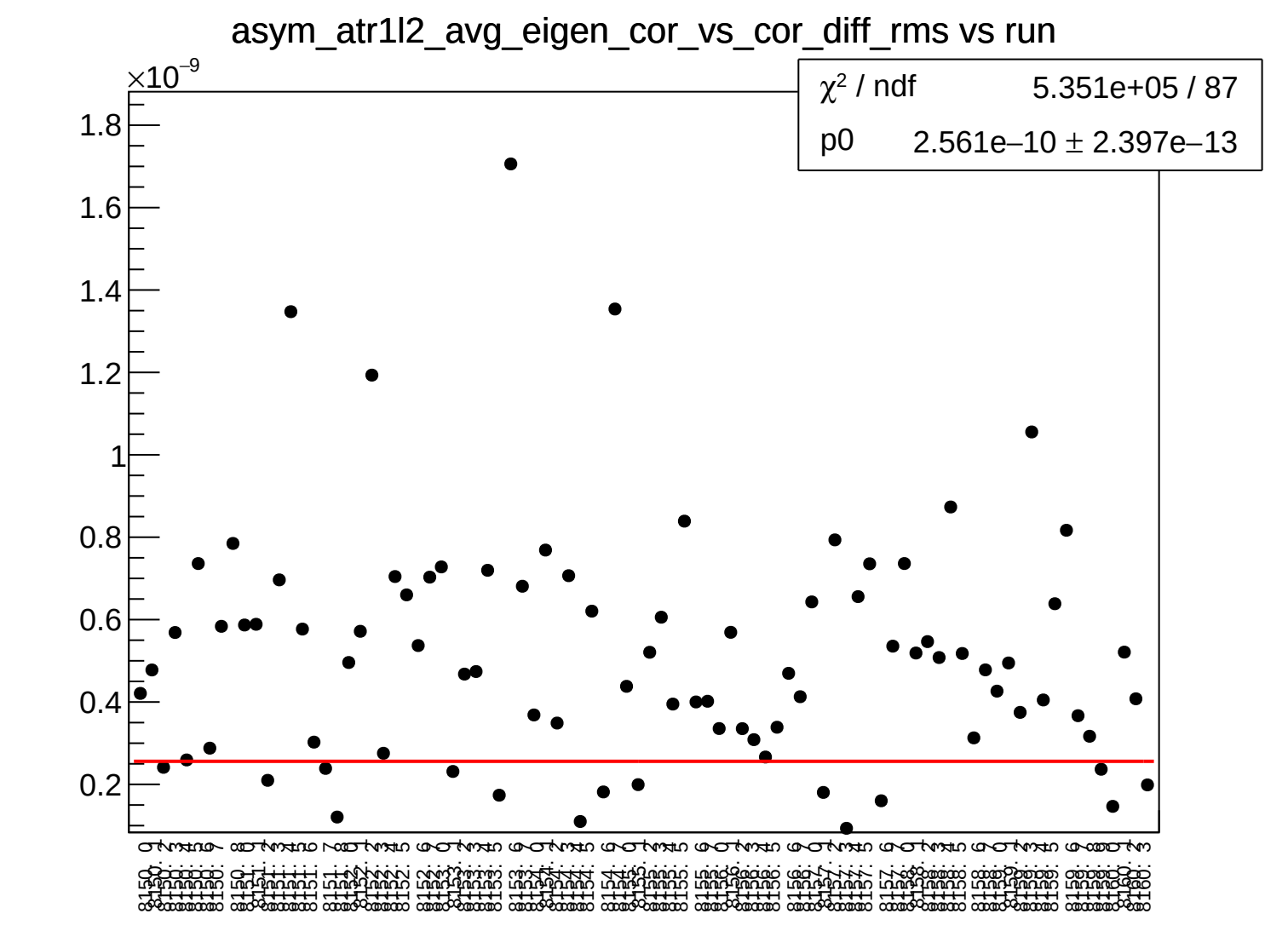

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.67 / 87
p0 −0.1673 ± 0.1645
pull
Entries 88
Mean 18.49
Std Dev 0
pull1D
Entries 88
Mean 0.01736
Std Dev 0.998

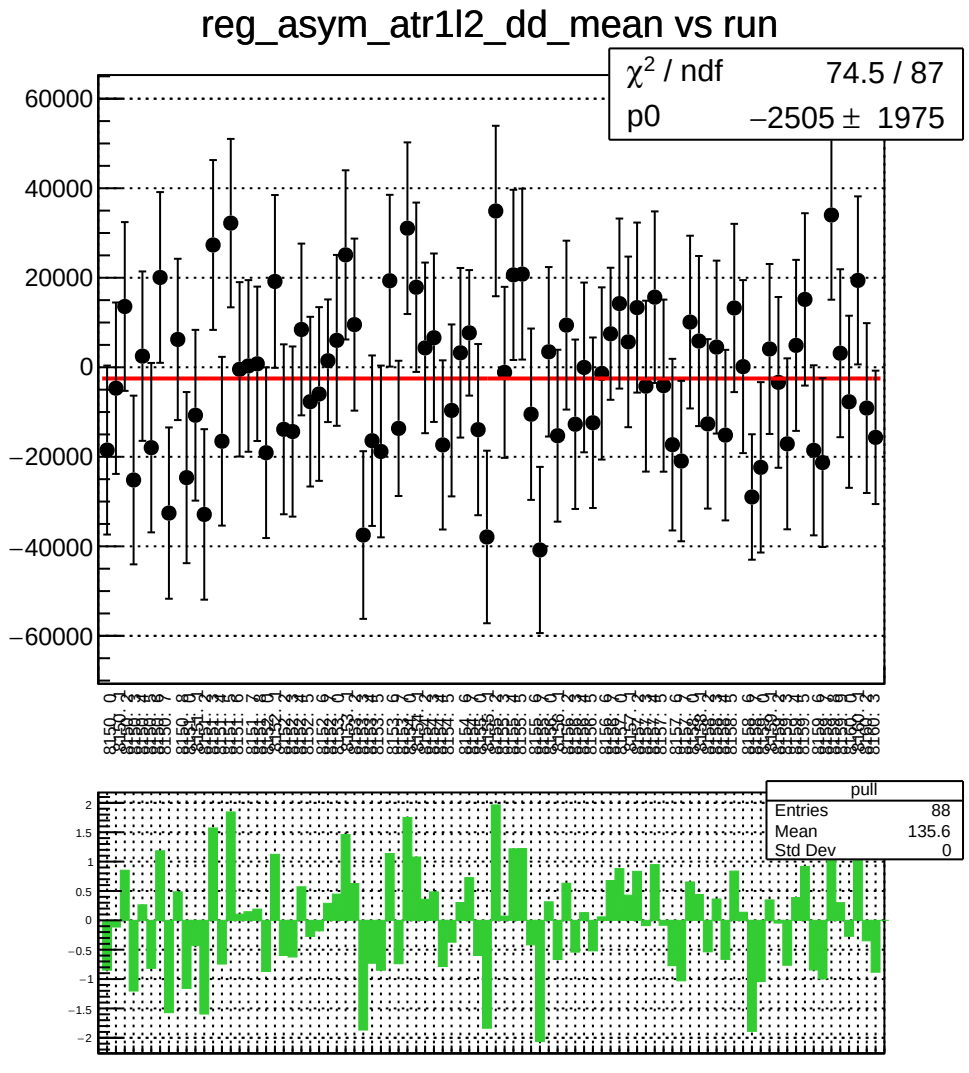

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.799e+04 / 87
p0 148.9 ± 0.1163
240
220
200
180
160
140
120
100
80

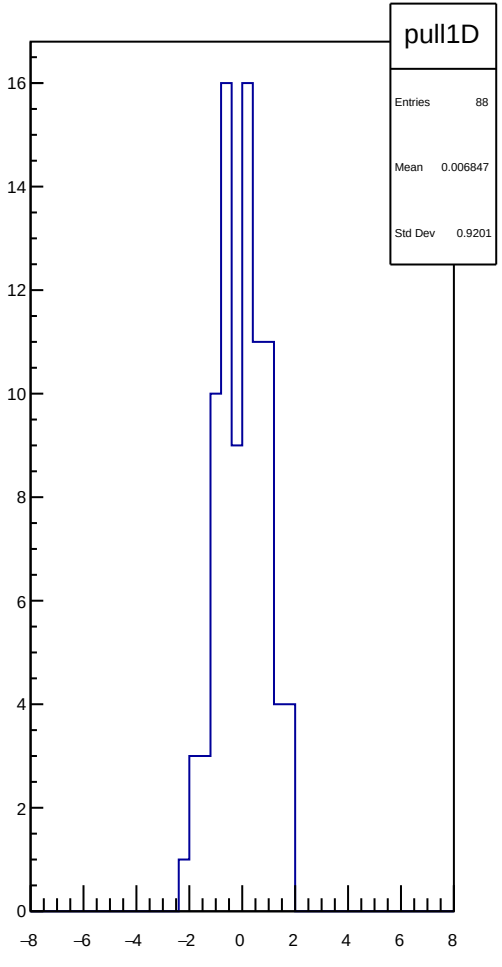

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.67 / 87
p0 −0.1673 ± 0.1645
pull
Entries 88
Mean 18.49
Std Dev 0
pull1D
Entries 88
Mean 0.01736
Std Dev 0.998

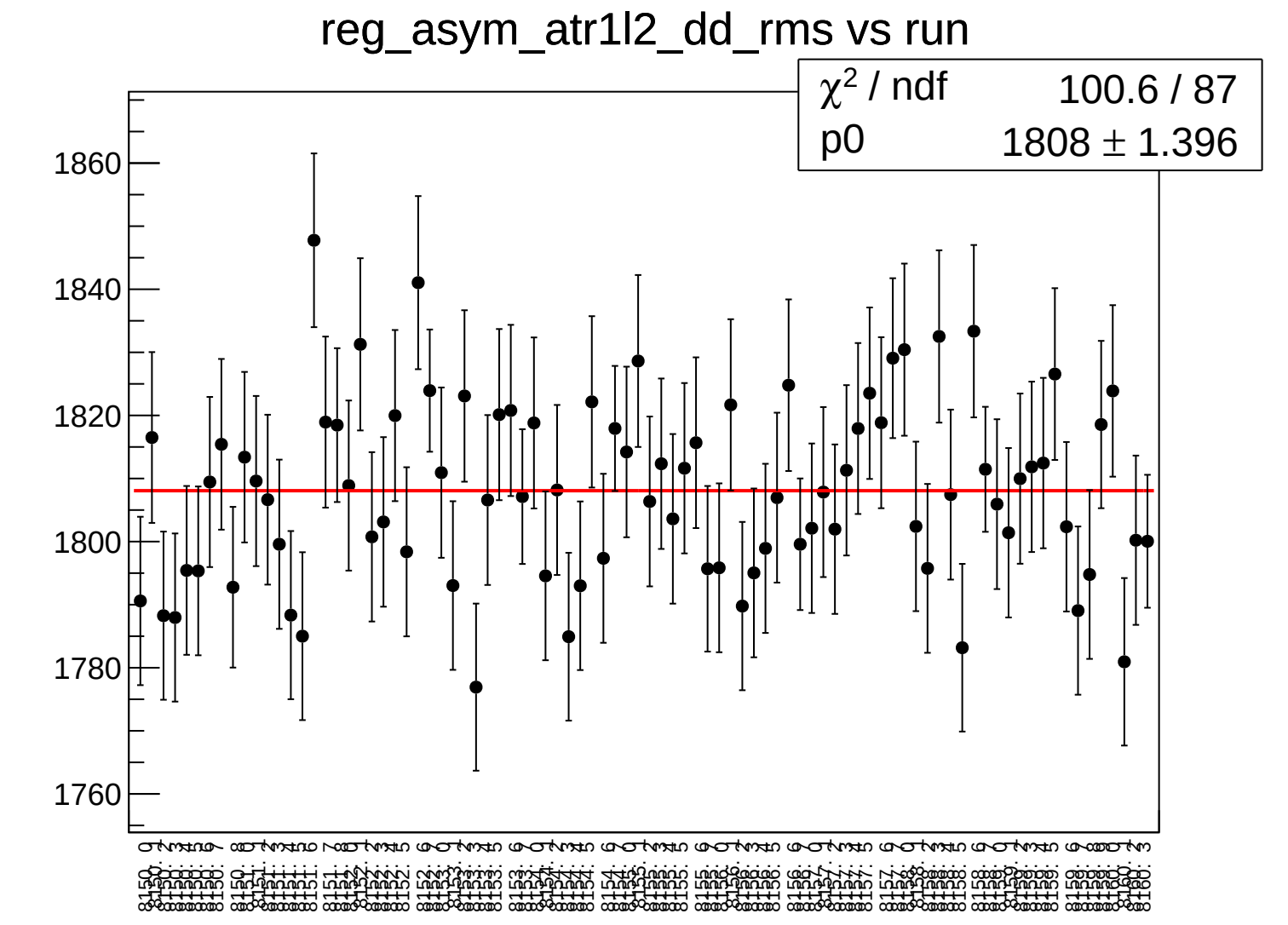

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.799e+04 / 87
p0 148.9 ± 0.1163
240
220
200
180
160
140
120
100
80

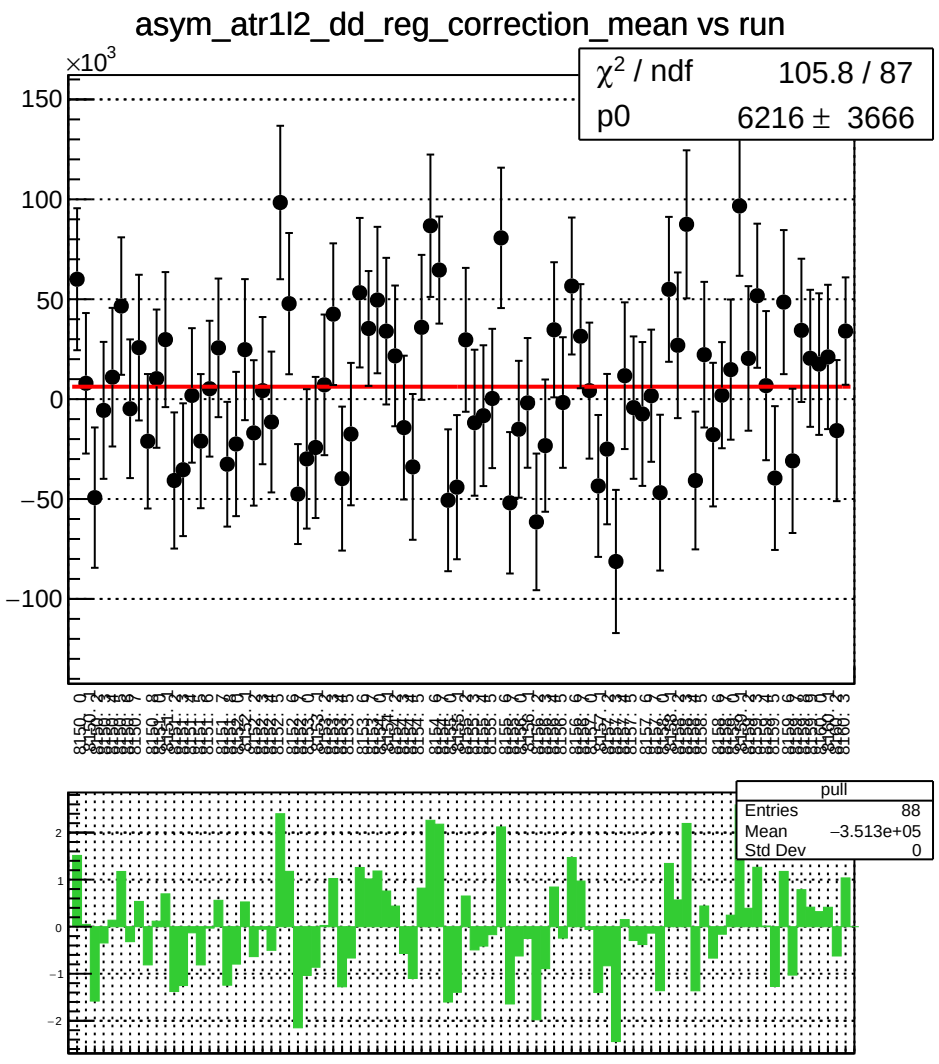

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.66 / 87
p0 −1.189e−13 ± 3.39e−13
20
10
0
−10
−20
pull
Entries 88
Mean 194.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01423
Std Dev 0.9808
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

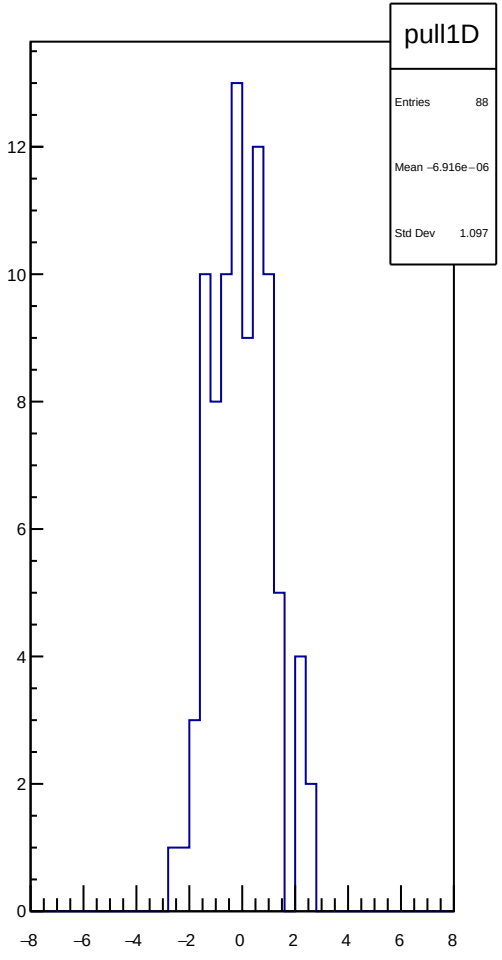

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.351e+05 / 87
p0 2.561e−10 ± 2.397e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

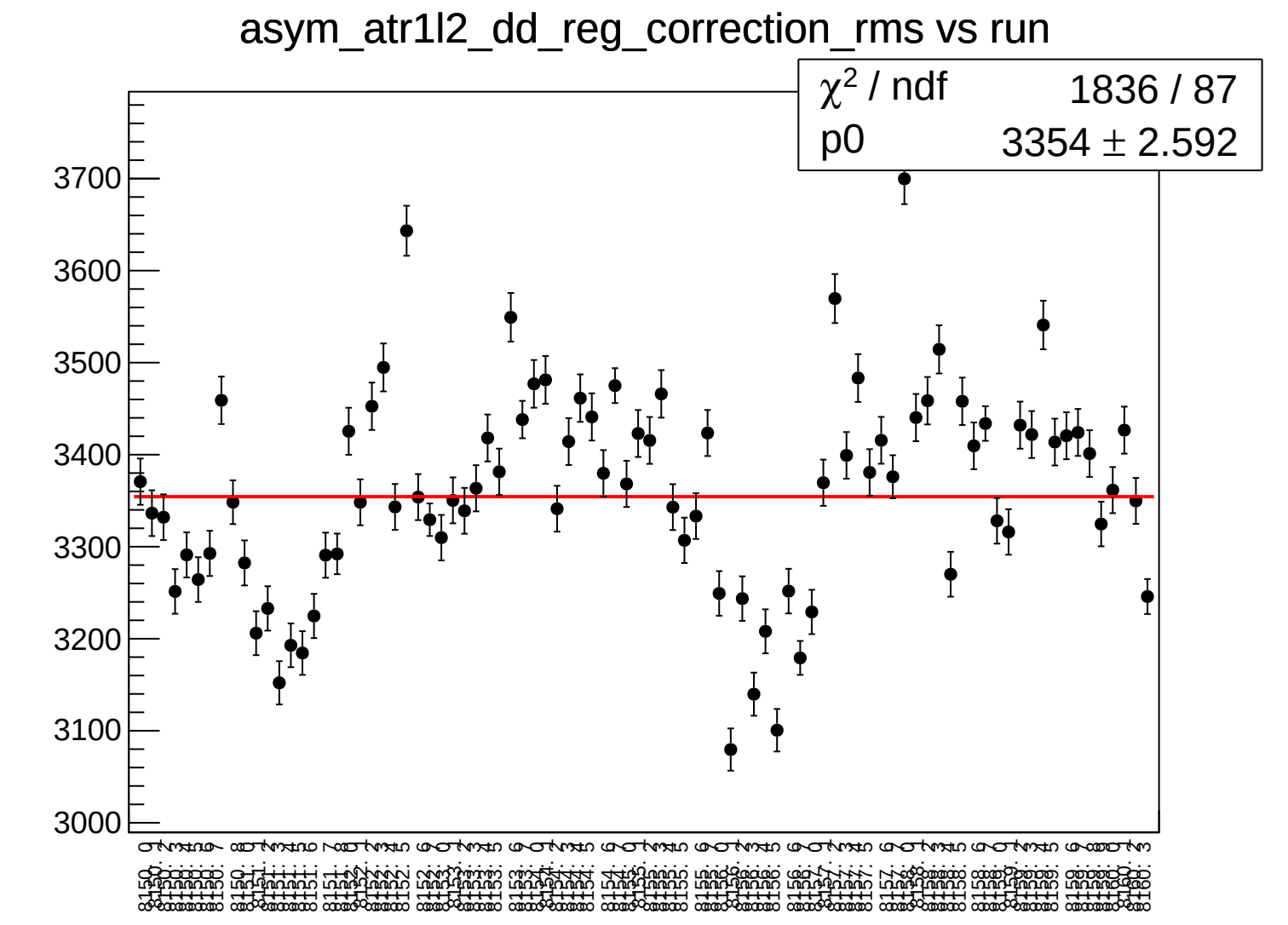

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 74.5 / 87
p0 −2505 ± 1975
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 135.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

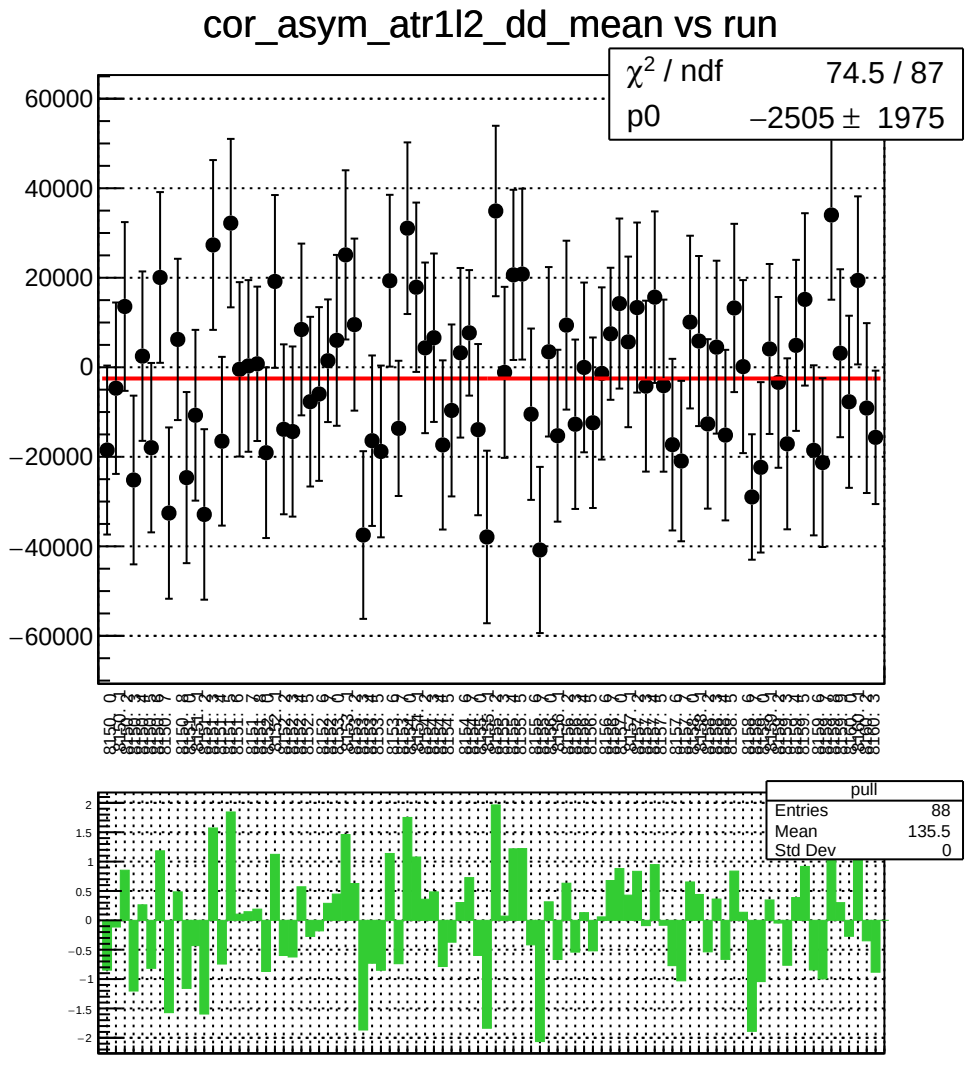

pull1D
Entries 88
Mean 0.006847
Std Dev 0.9201
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

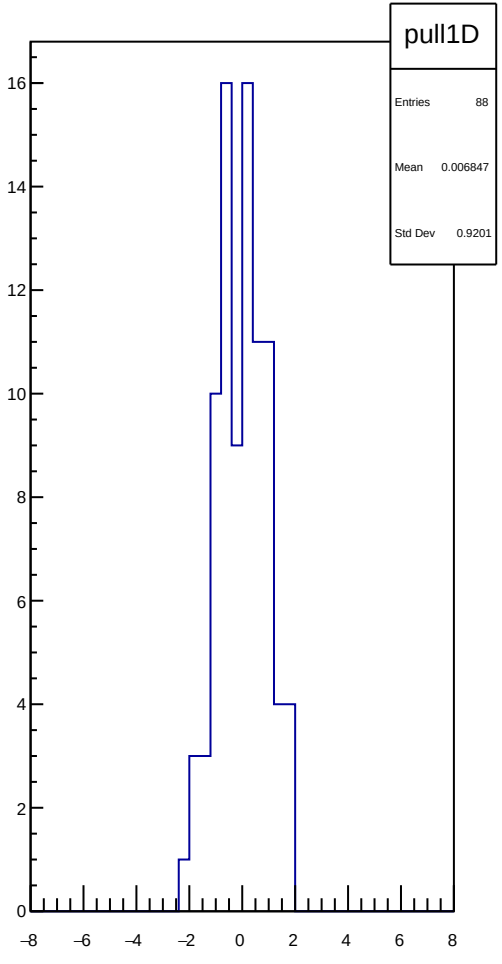

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 100.6 / 87
p0 1808 ± 1.396
1860
1840
1820
1800
1780
1760

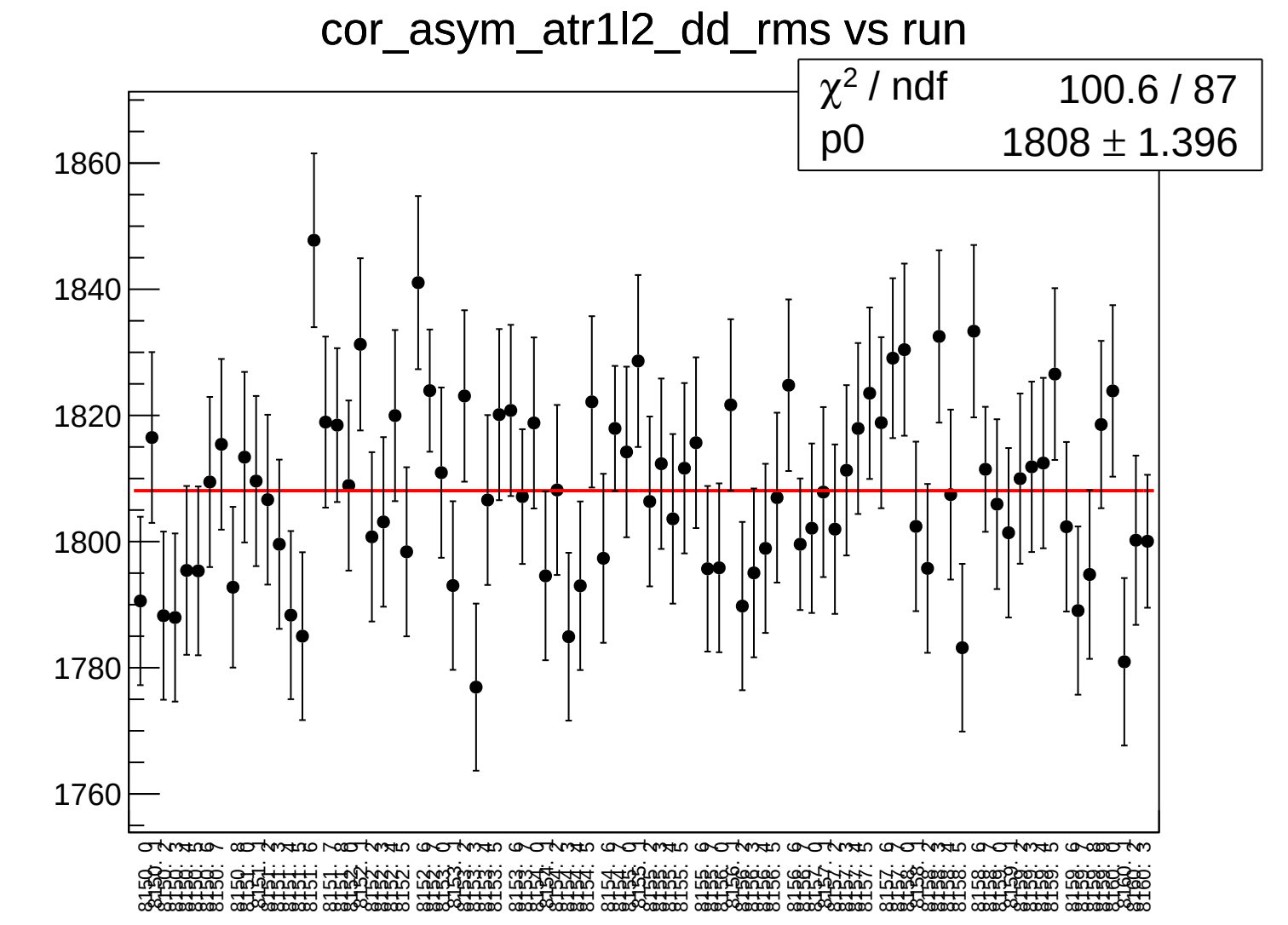

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 105.8 / 87
p0 6216 ± 3666
150
100
50
0
−50
−100
pull
Entries 88
Mean −3.513e+05
Std Dev 0
2
1
0
−1
−2

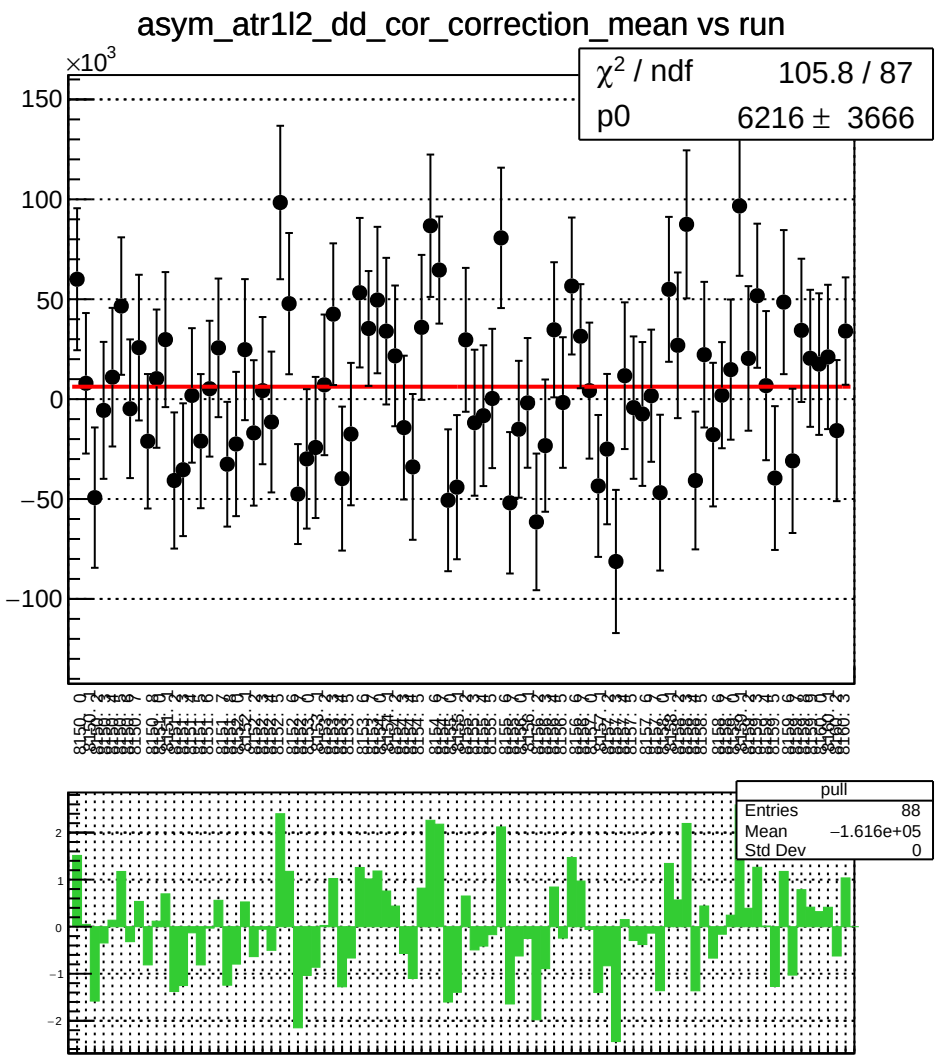

pull1D
Entries 88
Mean −6.916e−06
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

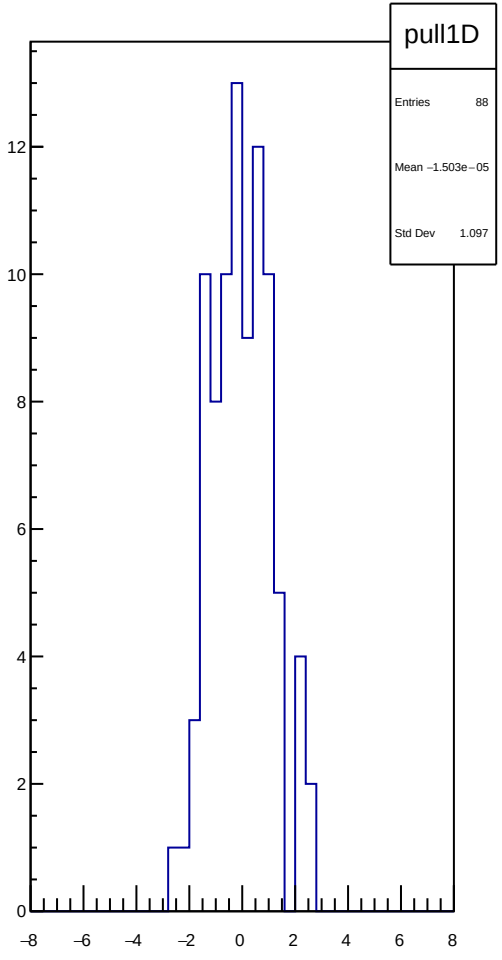

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1836 / 87
p0 3354 ± 2.592
3700
3600
3500
3400
3300
3200
3100
3000

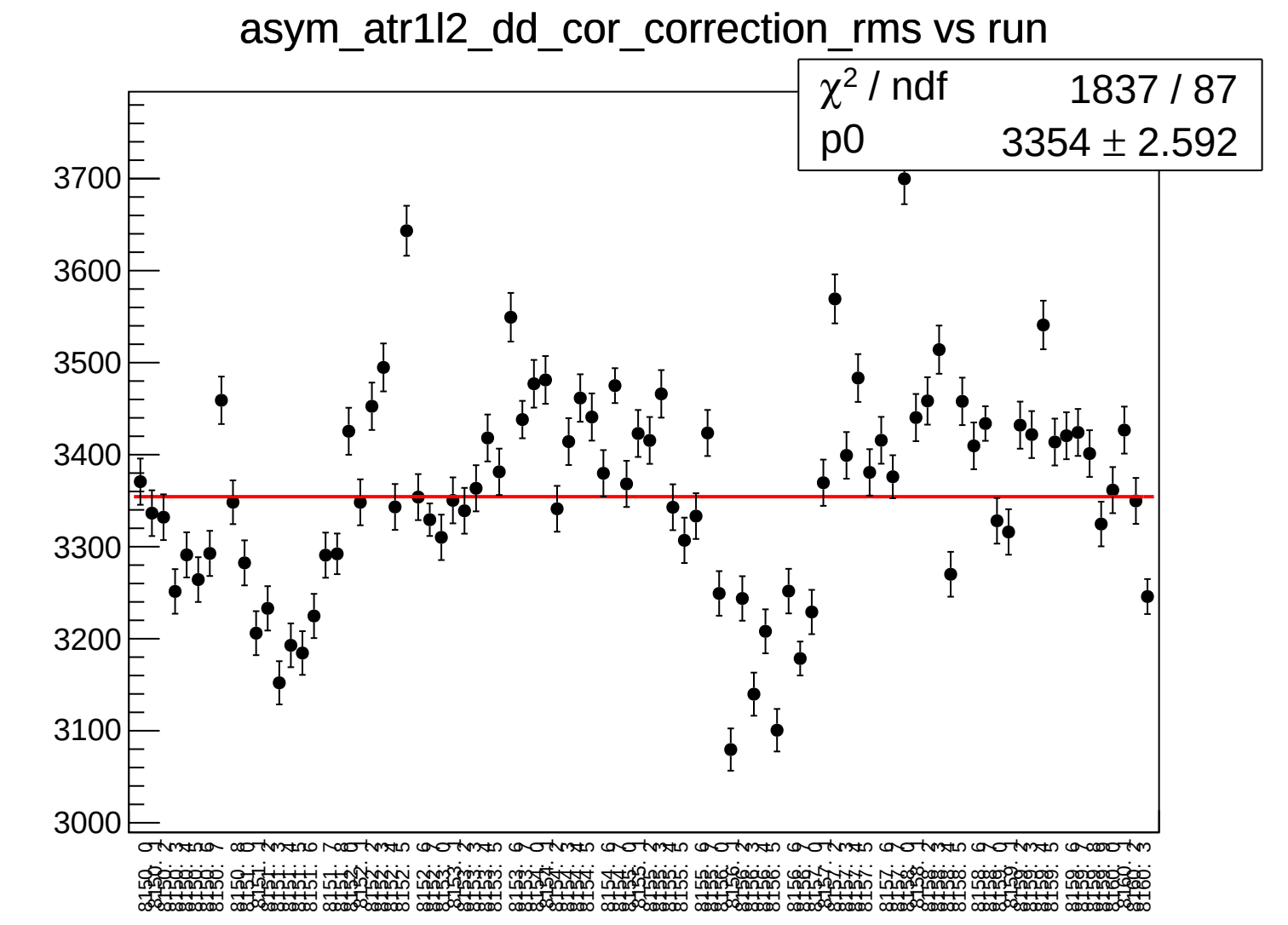

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 74.5 / 87
p0 −2505 ± 1975
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 135.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

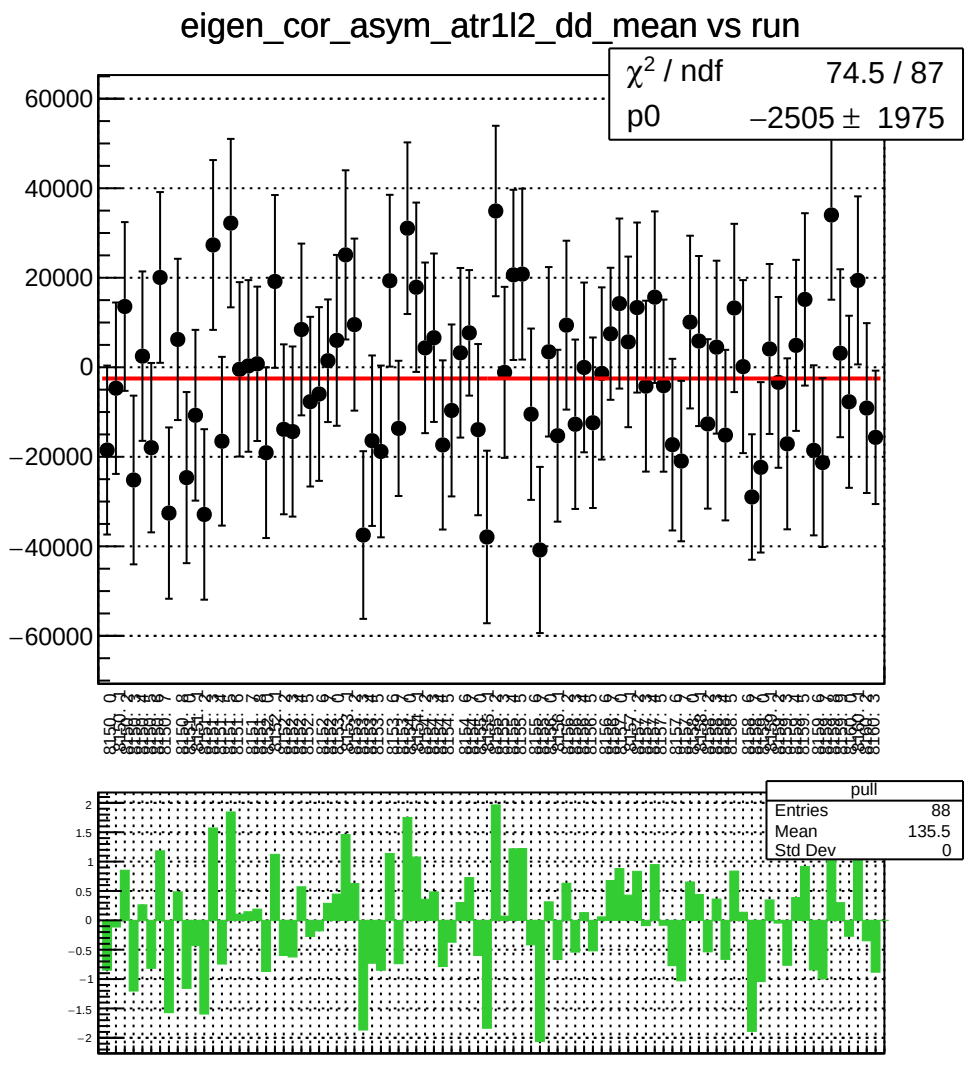

pull1D
Entries 88
Mean 0.006847
Std Dev 0.9201
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

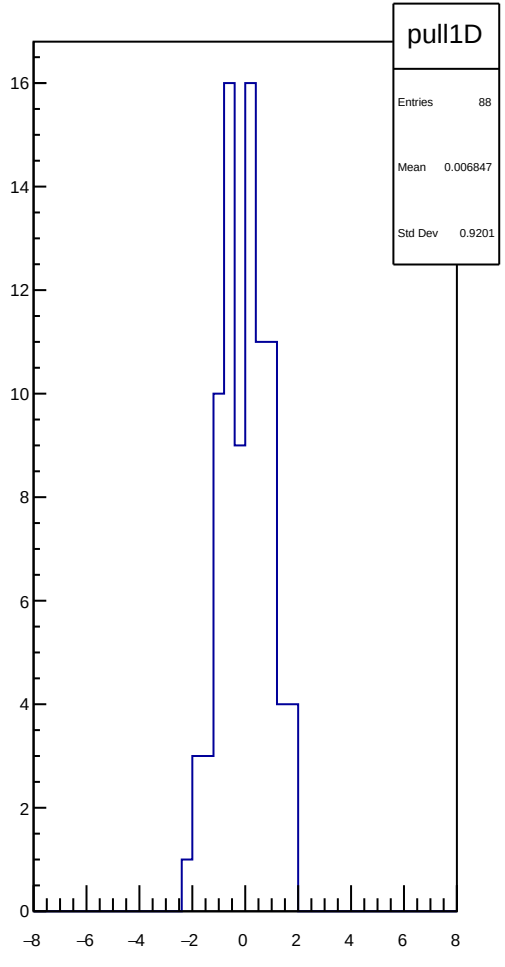

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 100.6 / 87
p0 1808 ± 1.396
1860
1840
1820
1800
1780
1760

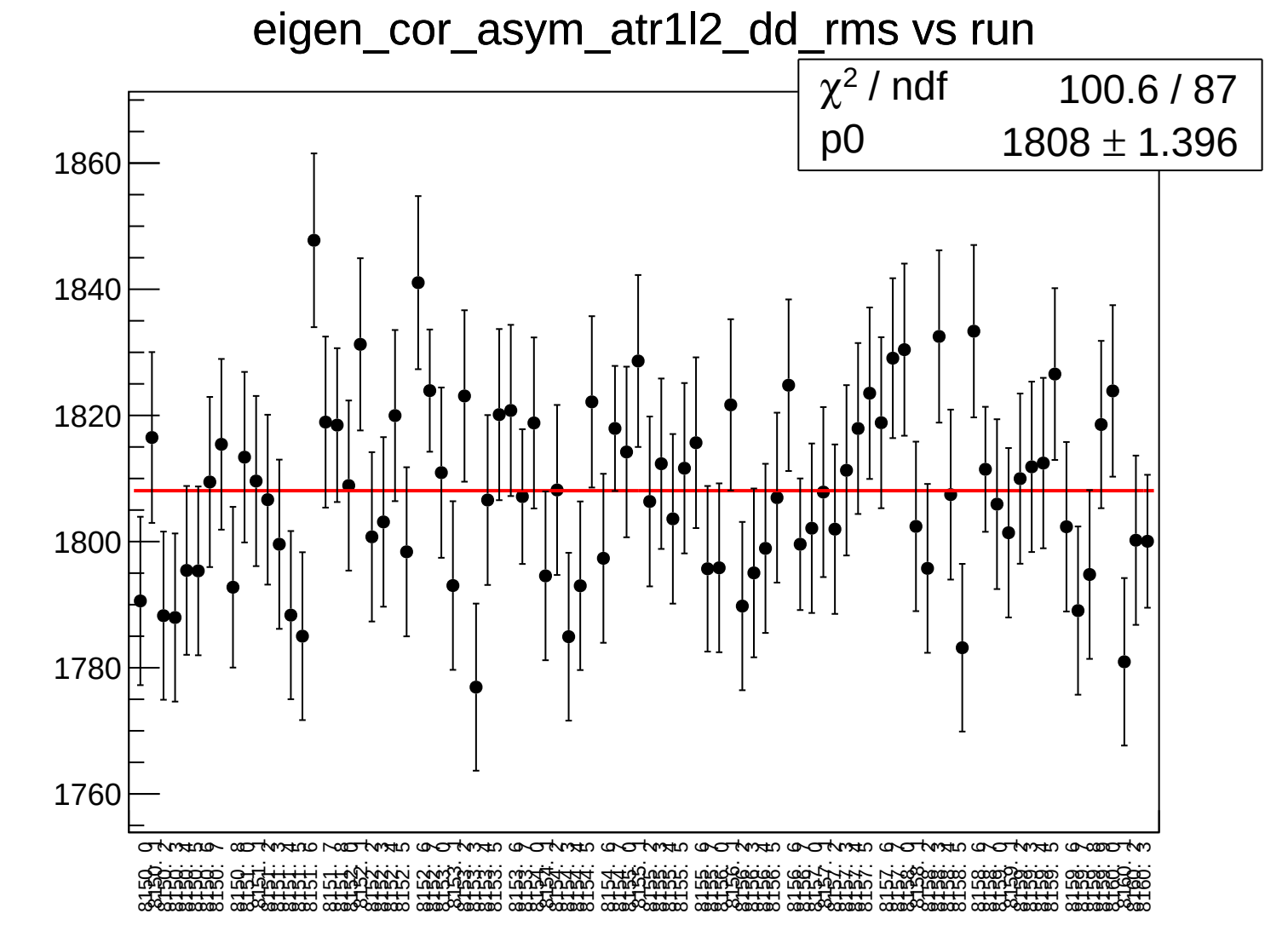

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 105.8 / 87
p0 6216 ± 3666
150
100
50
0
−50
−100
pull
Entries 88
Mean −1.616e+05
Std Dev 0
2
1
0
−1
−2

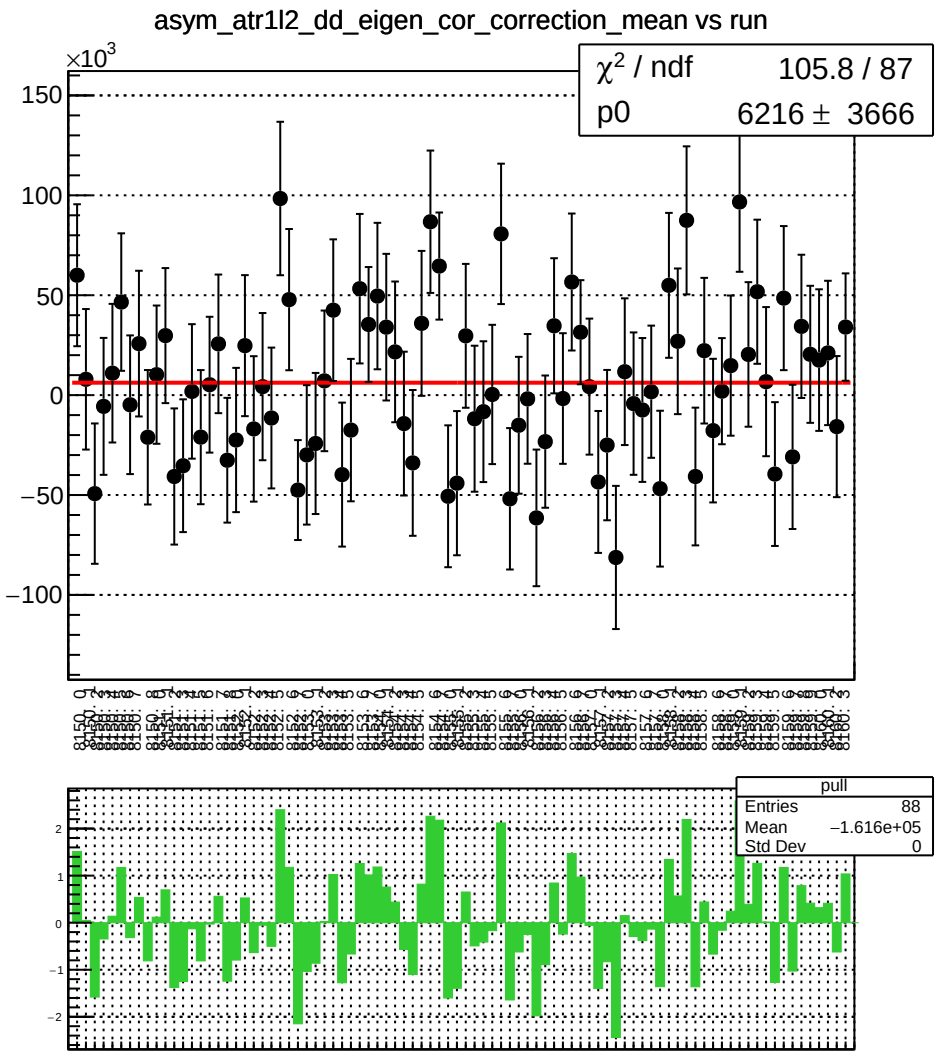

pull1D
Entries 88
Mean −1.503e−05
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

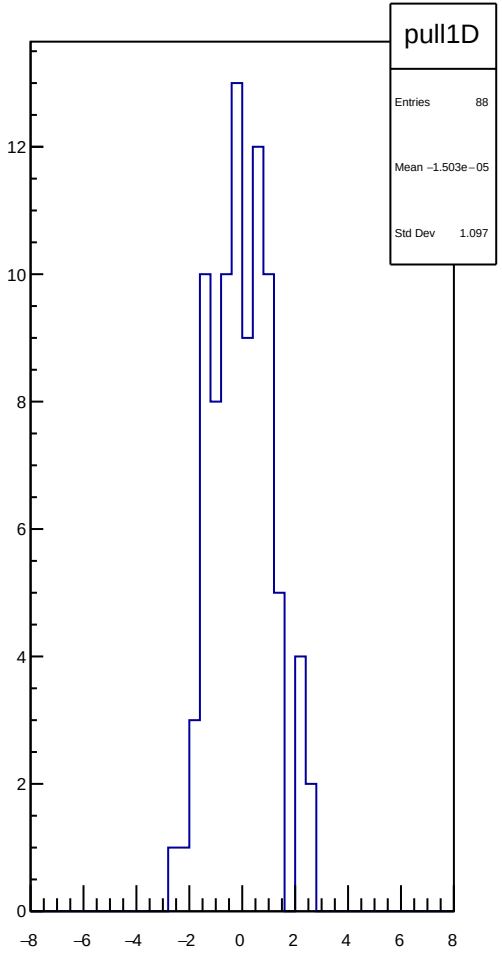

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1837 / 87
p0 3354 ± 2.592
3700
3600
3500
3400
3300
3200
3100
3000

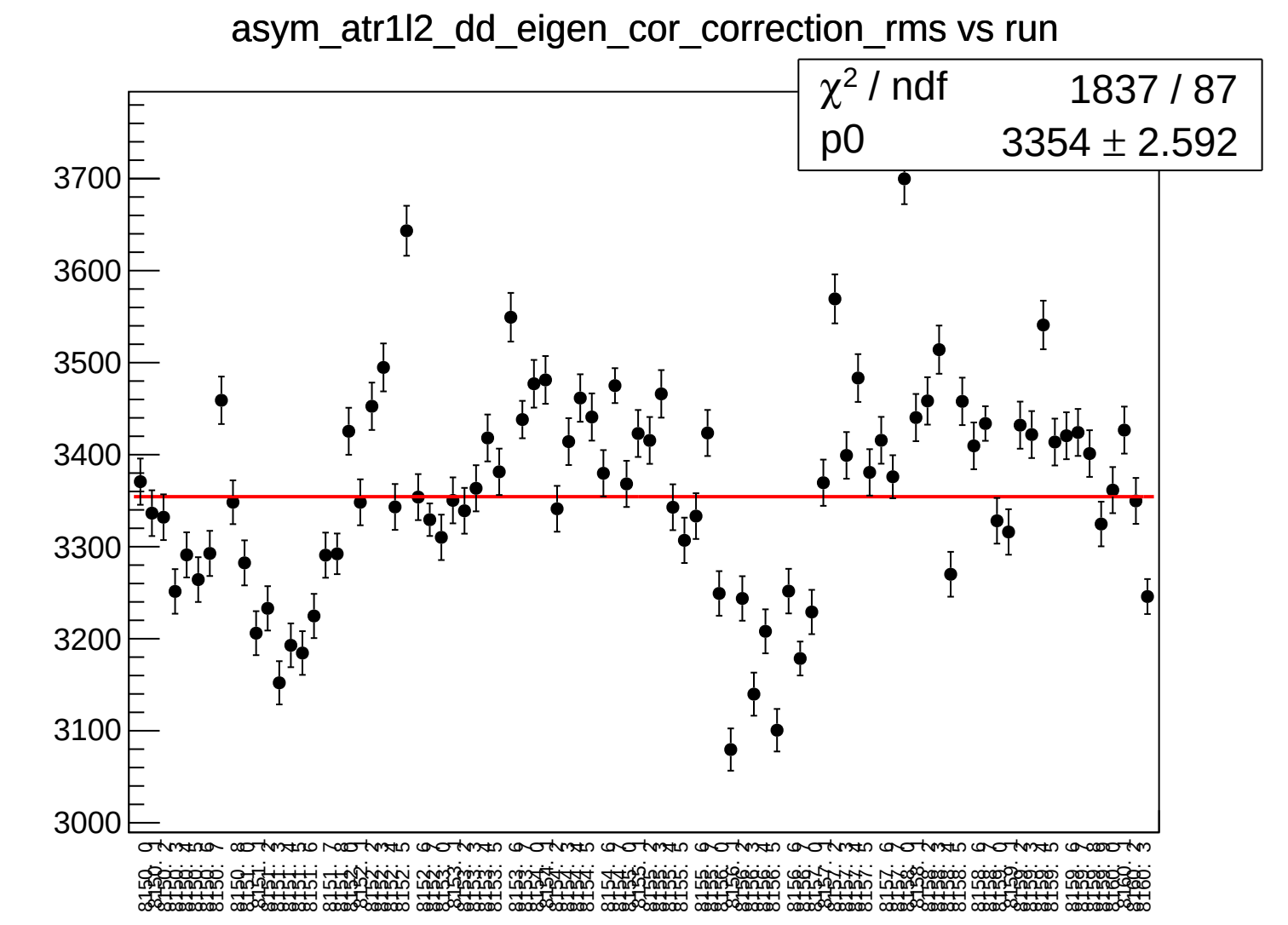

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 74.5 / 87
p0 −2505 ± 1975
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 135.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

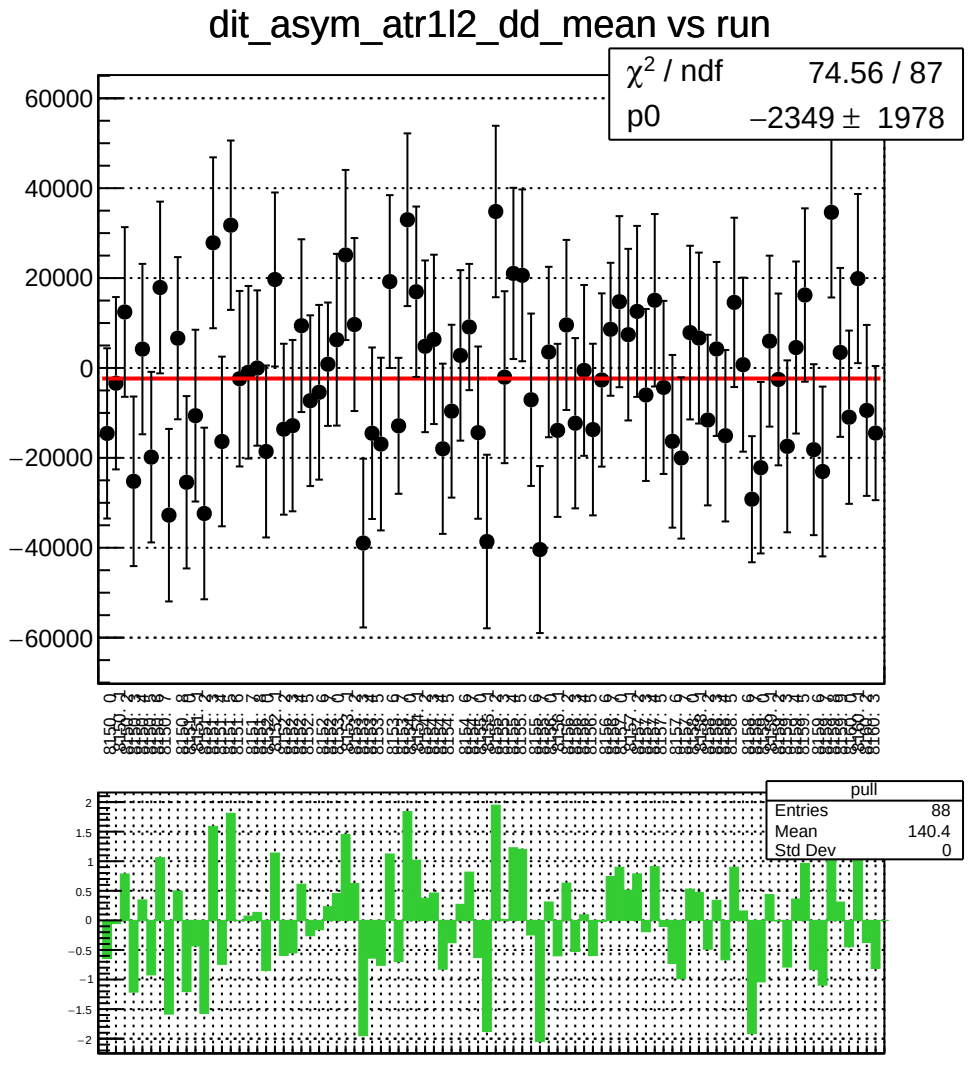

pull1D
Entries 88
Mean 0.006847
Std Dev 0.9201
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

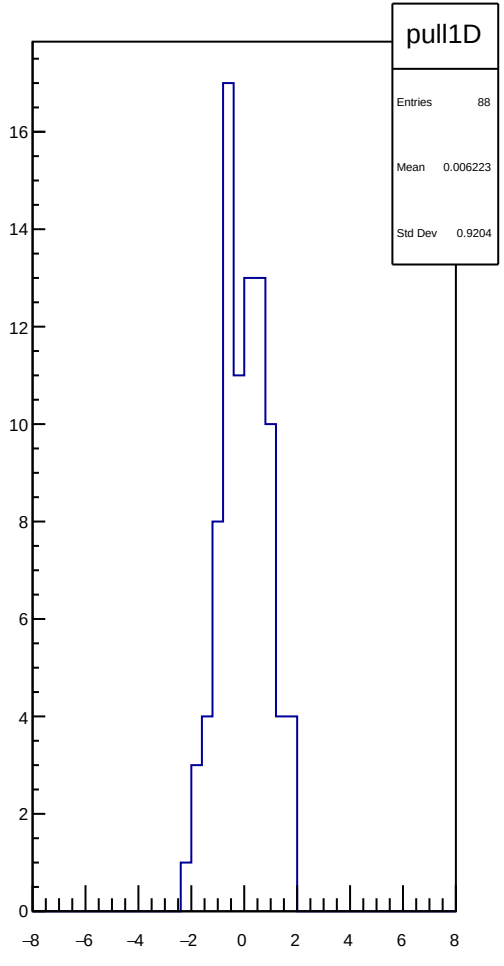

eigen_cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 100.6 / 87
p0 1808 ± 1.396
1860
1840
1820
1800
1780
1760

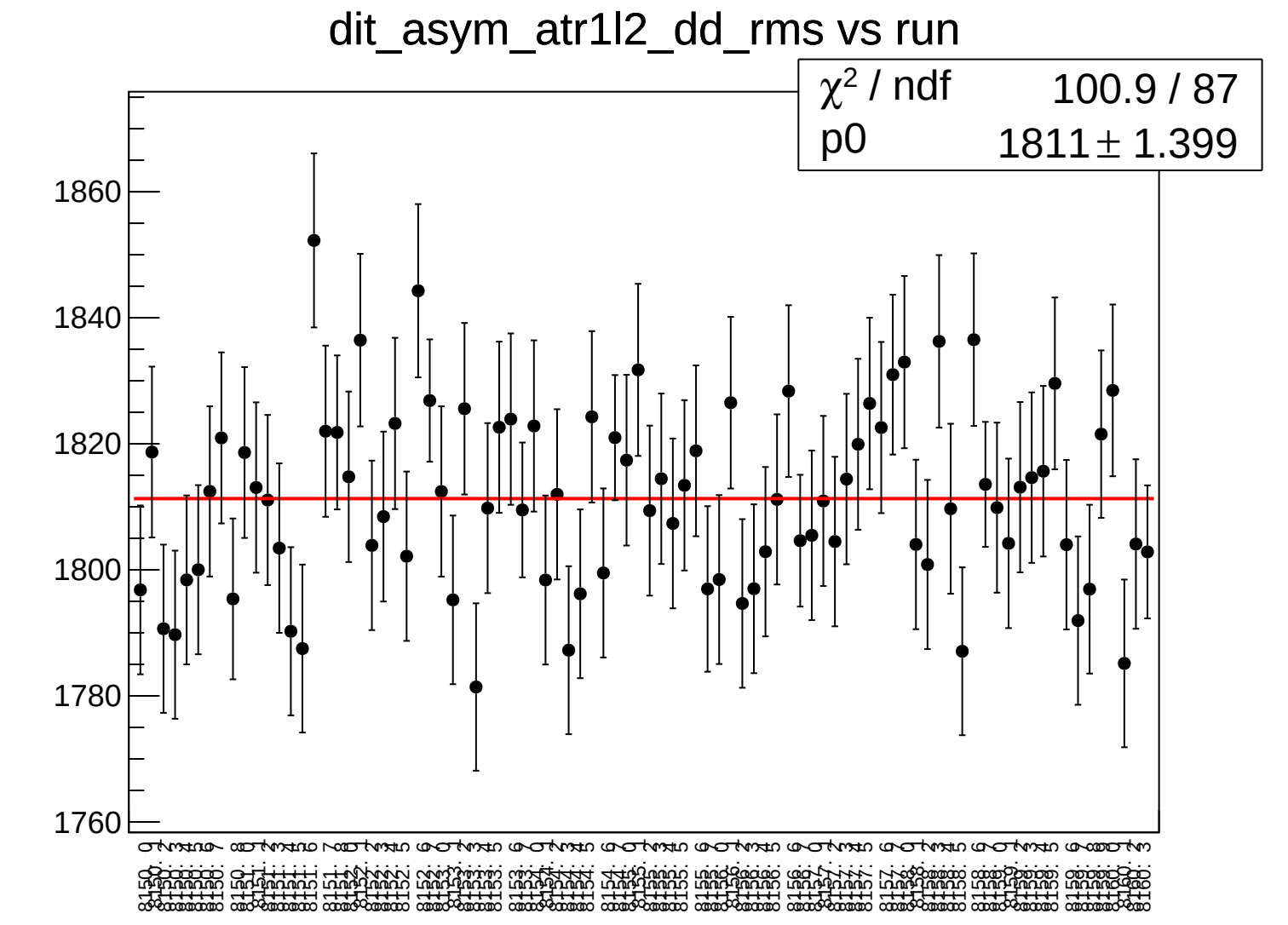

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 105.8 / 87
p0 6216 ± 3666
150
100
50
0
−50
−100
pull
Entries 88
Mean −1.616e+05
Std Dev 0
2
1
0
−1
−2

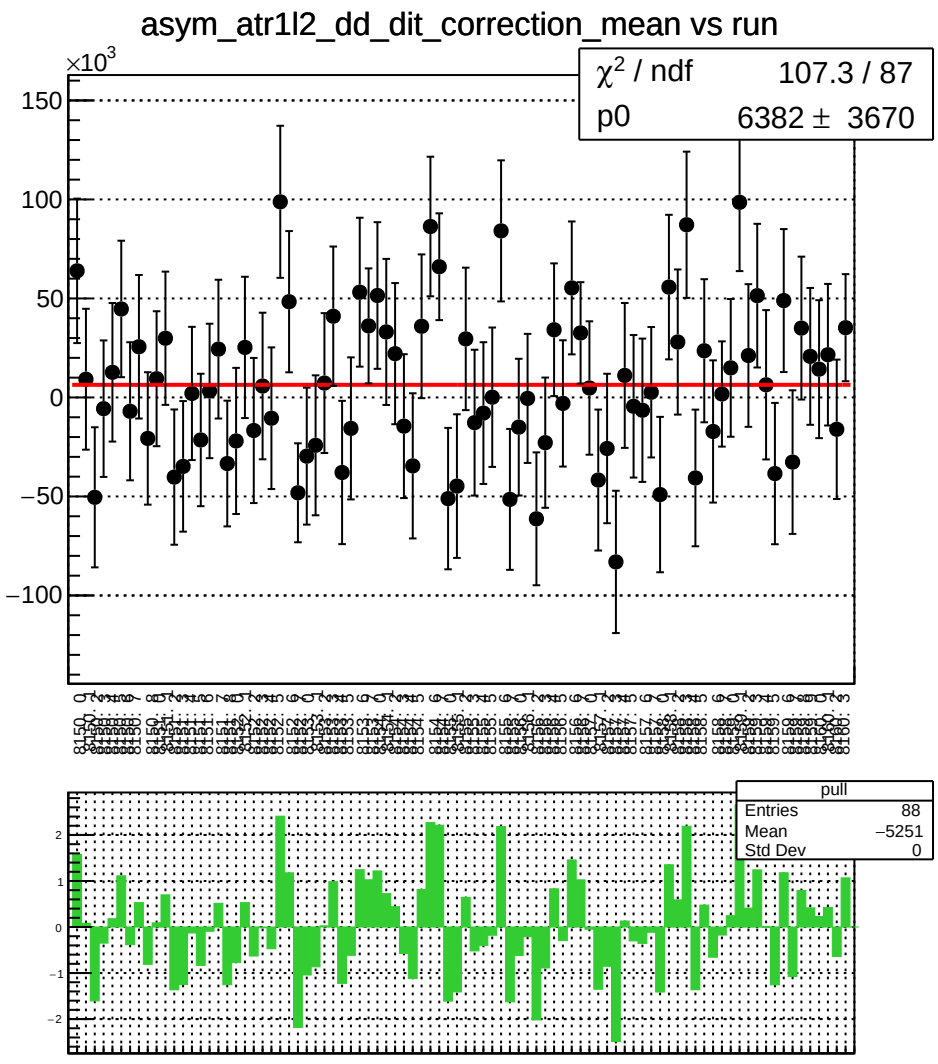

pull1D
Entries 88
Mean −1.503e−05
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

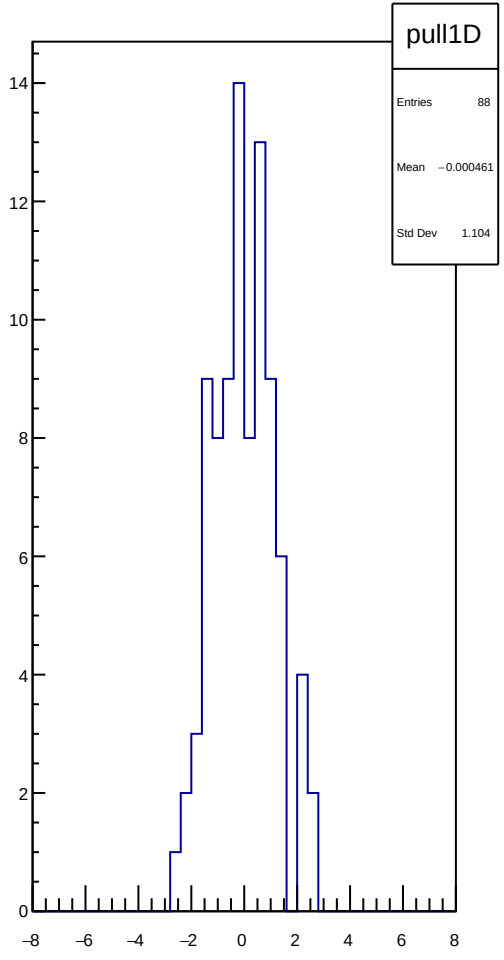

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1837 / 87
p0 3354 ± 2.592
3700
3600
3500
3400
3300
3200
3100
3000

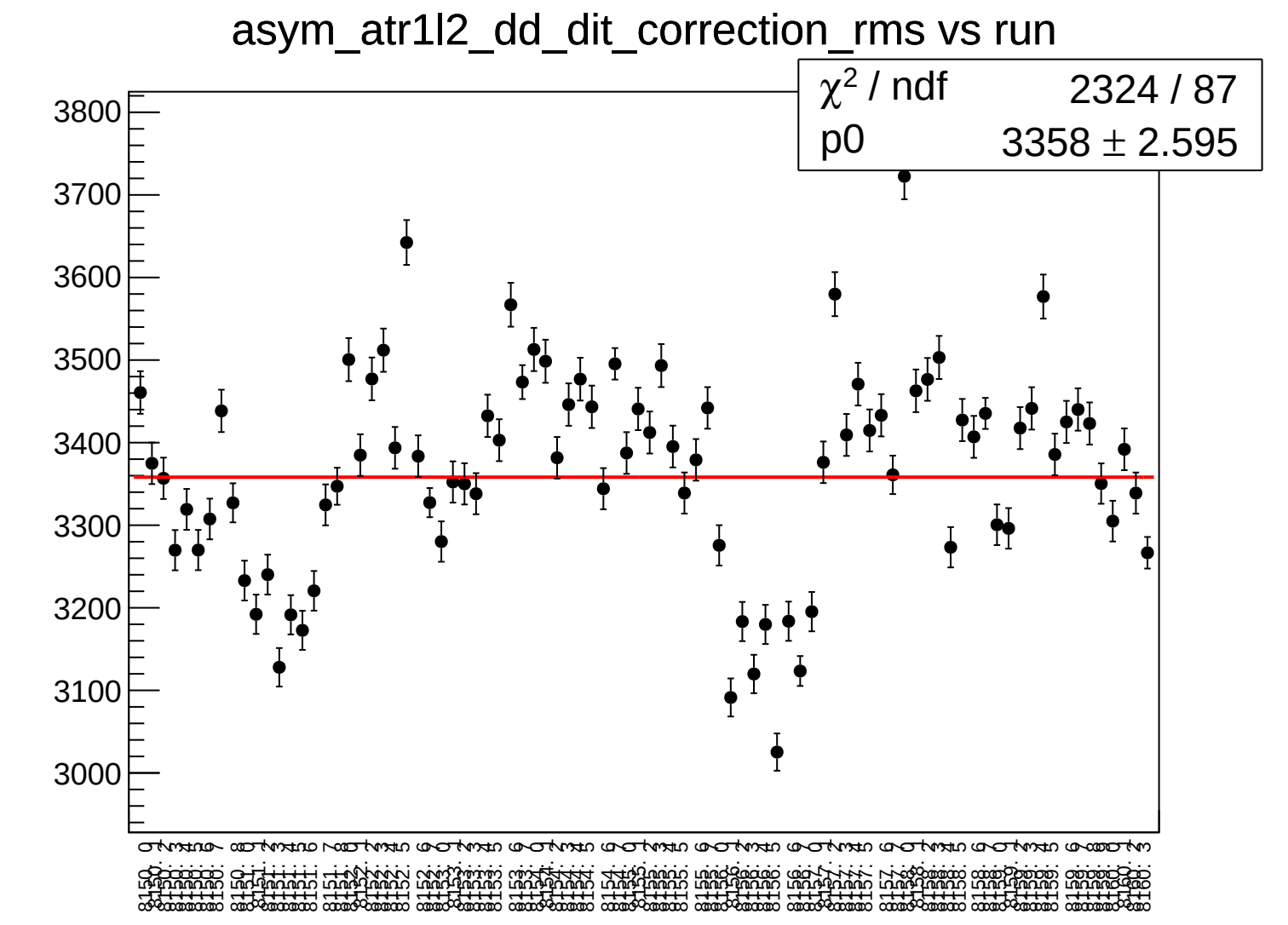

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 74.56 / 87
p0 −2349 ± 1978
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 140.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

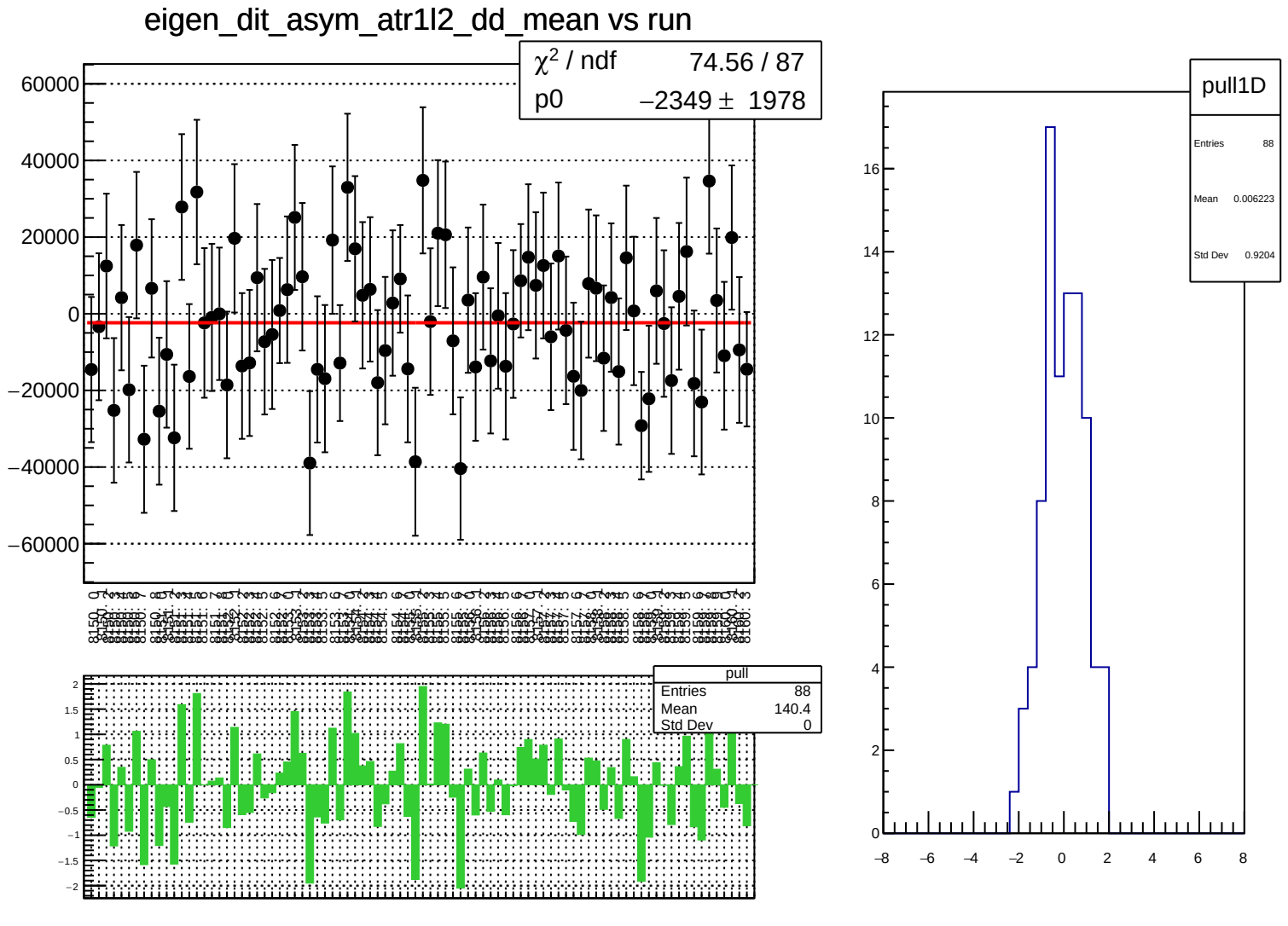

pull1D
Entries 88
Mean 0.006223
Std Dev 0.9204
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

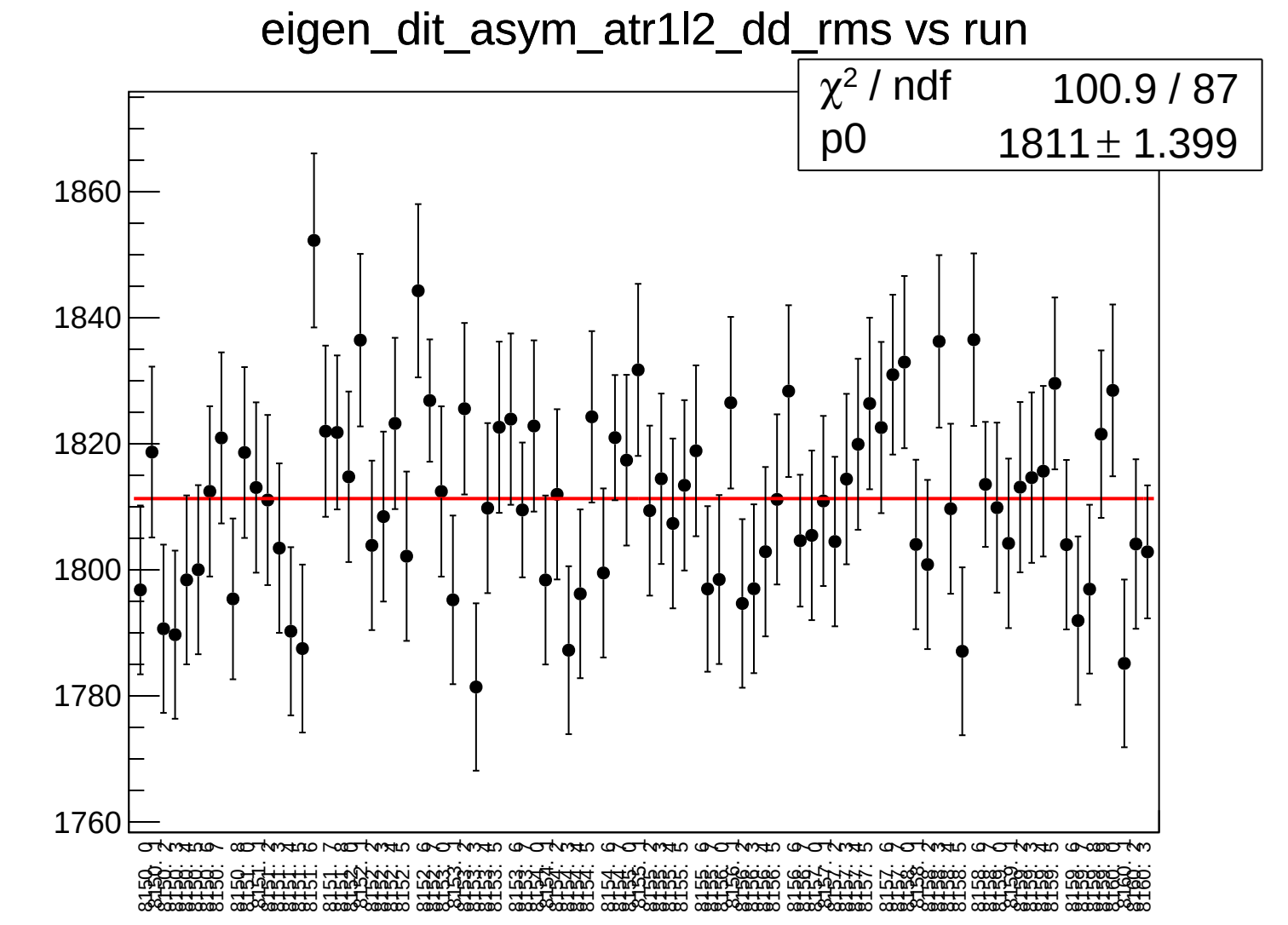

dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 100.9 / 87
p0 1811 ± 1.399
1860
1840
1820
1800
1780
1760

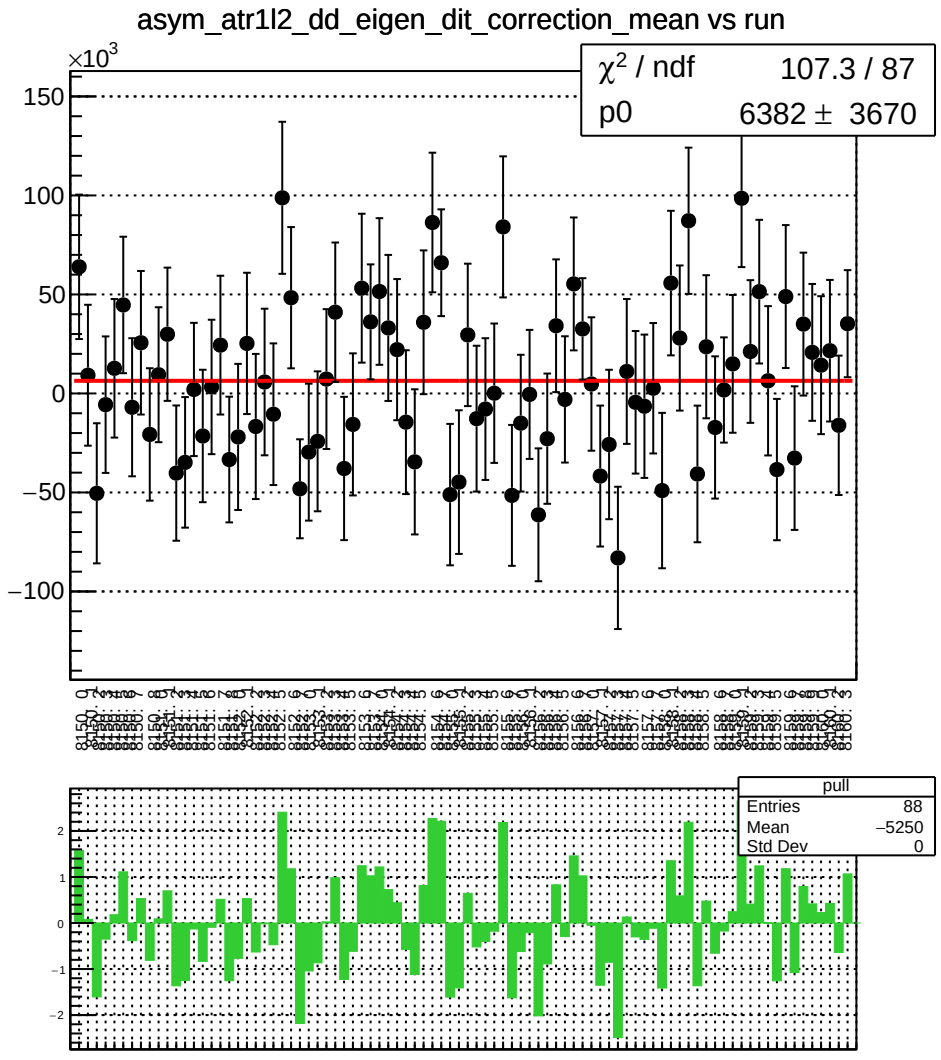

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 107.3 / 87
p0 6382 ± 3670
150
100
50
0
−50
−100
pull
Entries 88
Mean −5251
Std Dev 0
2
1
0
−1
−2

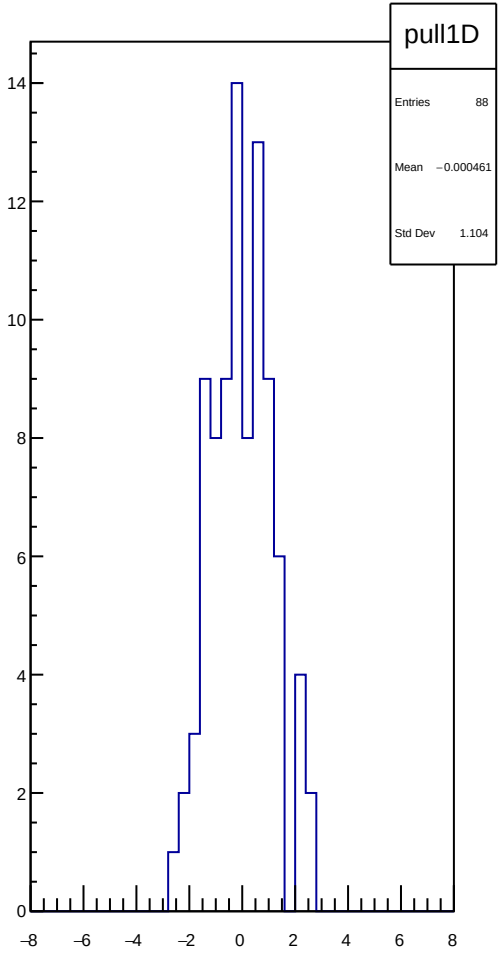

pull1D
Entries 88
Mean −0.000461
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

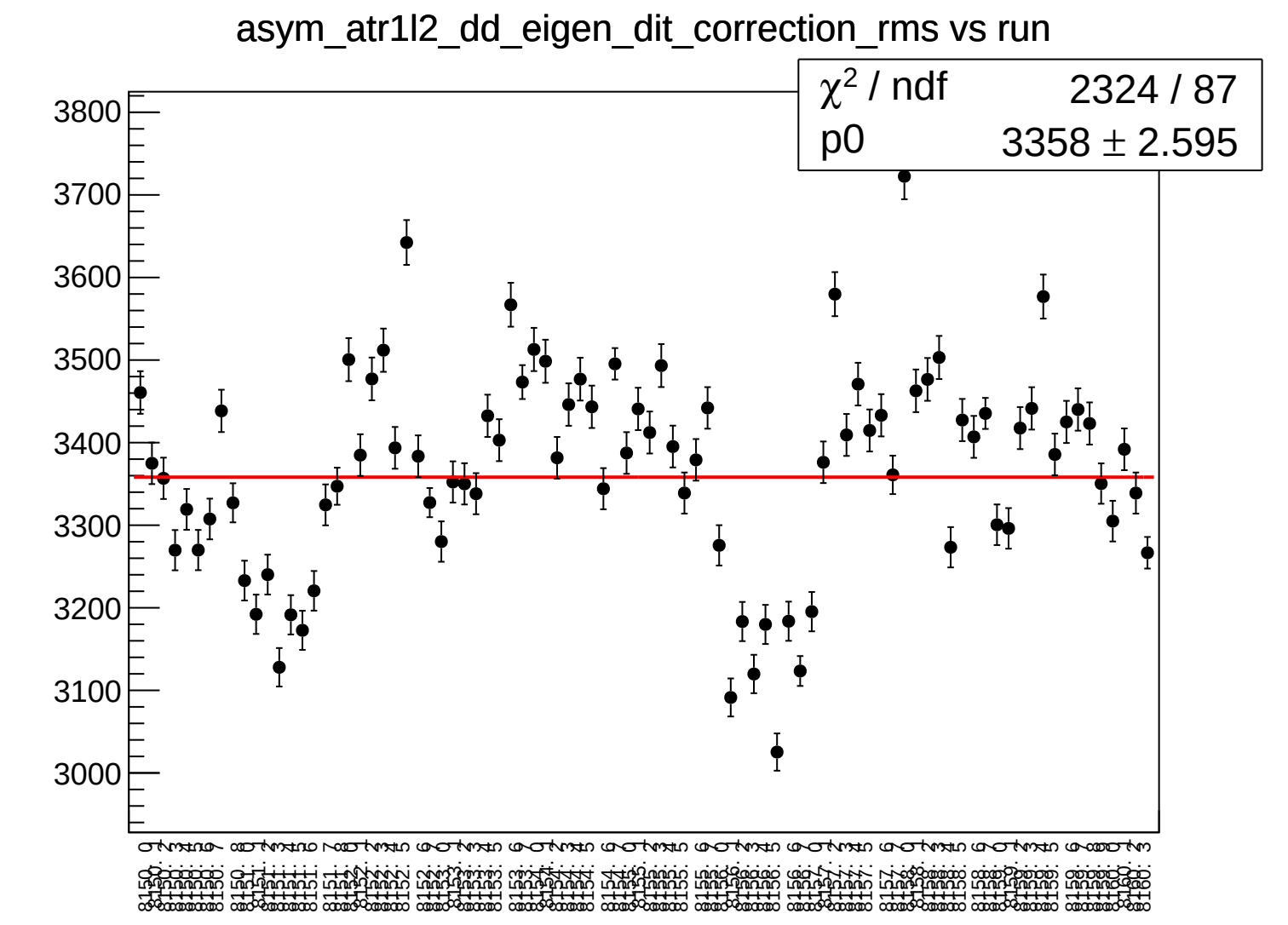

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 2324 / 87
p0 3358 ± 2.595
3800
3700
3600
3500
3400
3300
3200
3100
3000

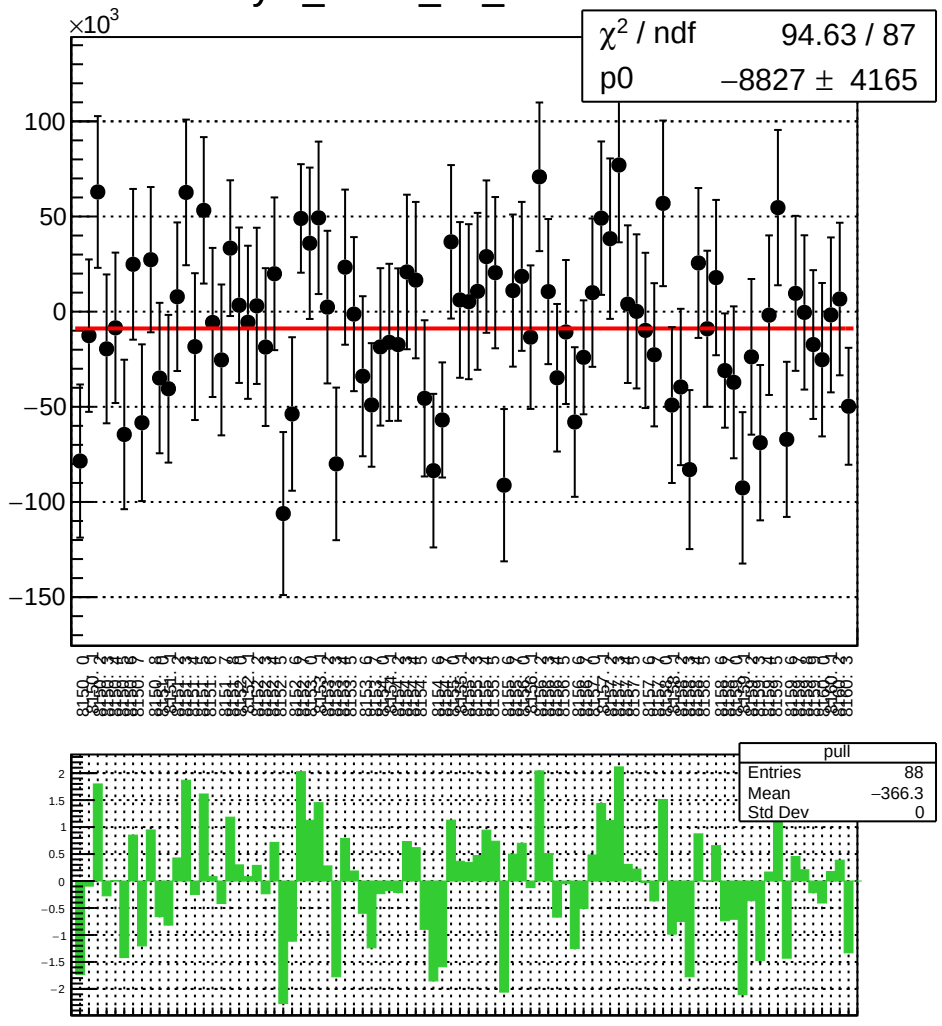

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 74.56 / 87
p0 −2349 ± 1978
pull
Entries 88
Mean 140.4
Std Dev 0
pull1D
Entries 88
Mean 0.006223
Std Dev 0.9204

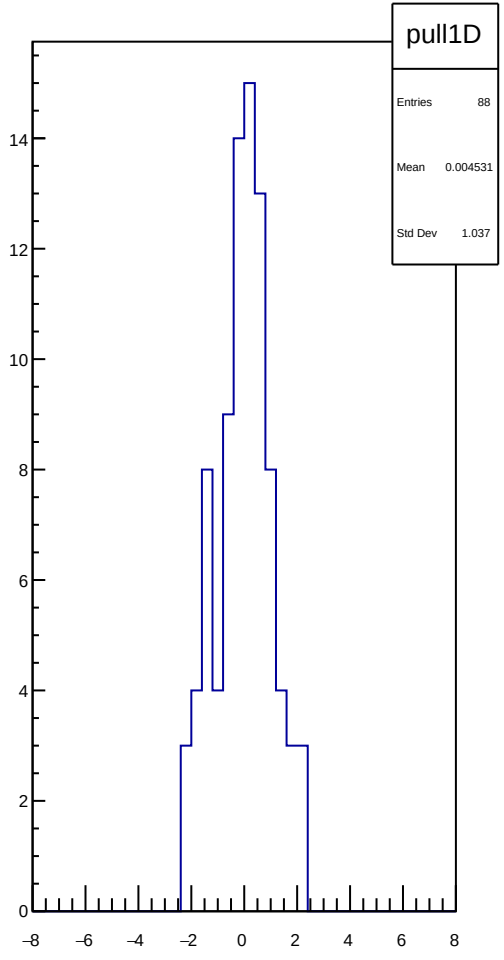

eigen_dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 100.9 / 87
p0 1811 ± 1.399
1860
1840
1820
1800
1780
1760

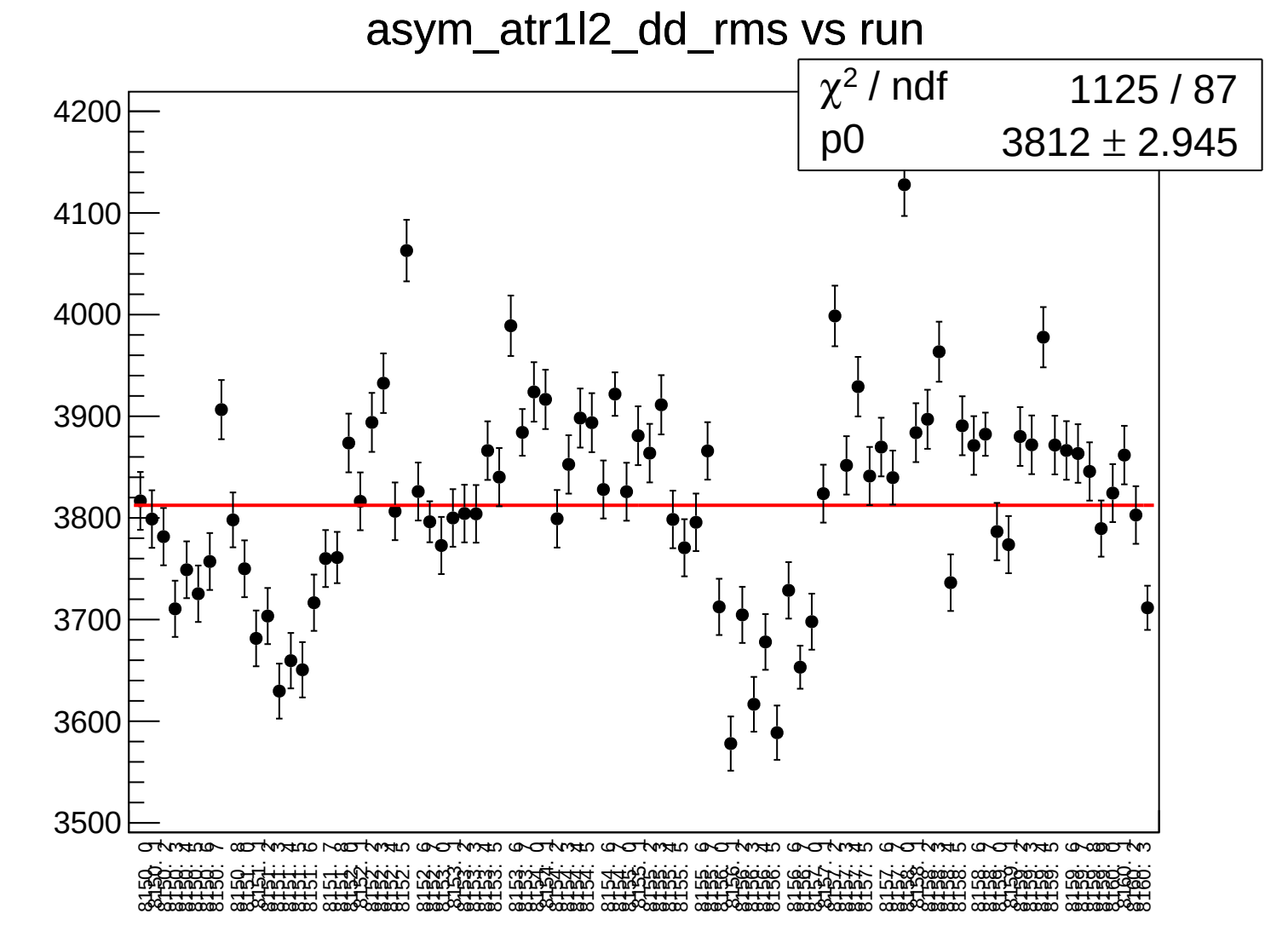

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.3 / 87
p0 6382 ± 3670
150
100
50
0
−50
−100
pull
Entries 88
Mean −5250
Std Dev 0
2
1
0
−1
−2

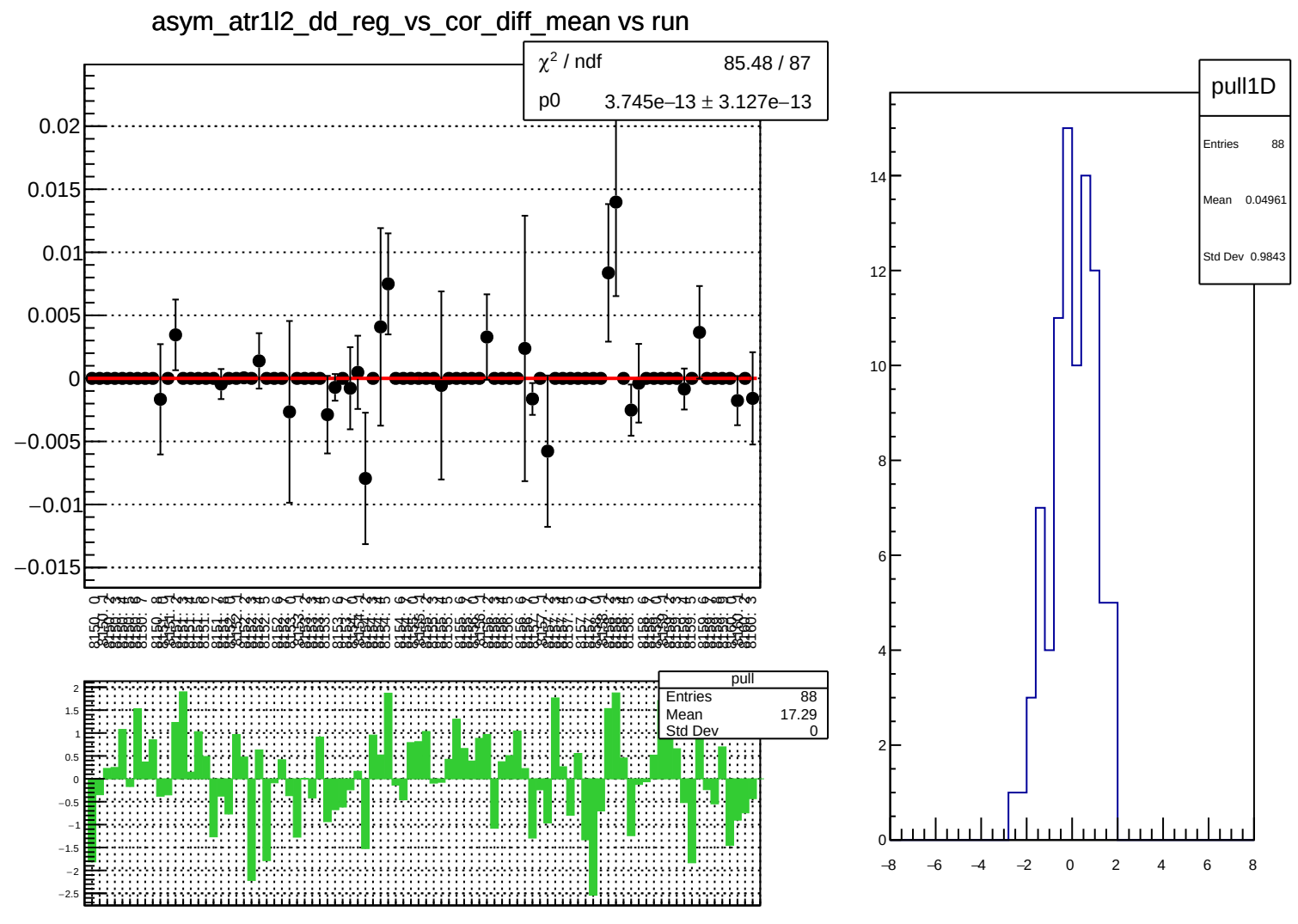

pull1D
Entries 88
Mean −0.000461
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

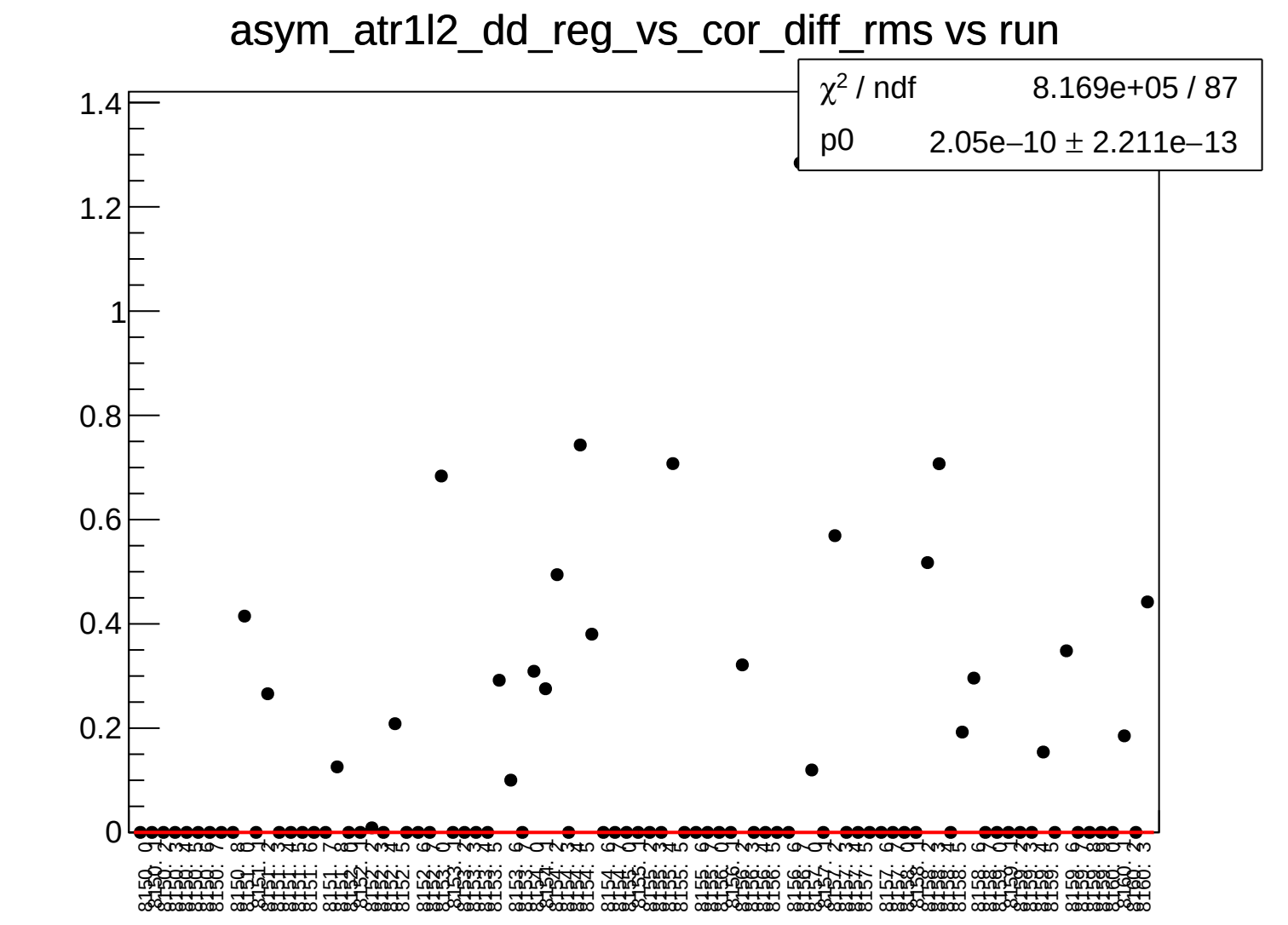

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 2324 / 87
p0 3358 ± 2.595
3800
3700
3600
3500
3400
3300
3200
3100
3000

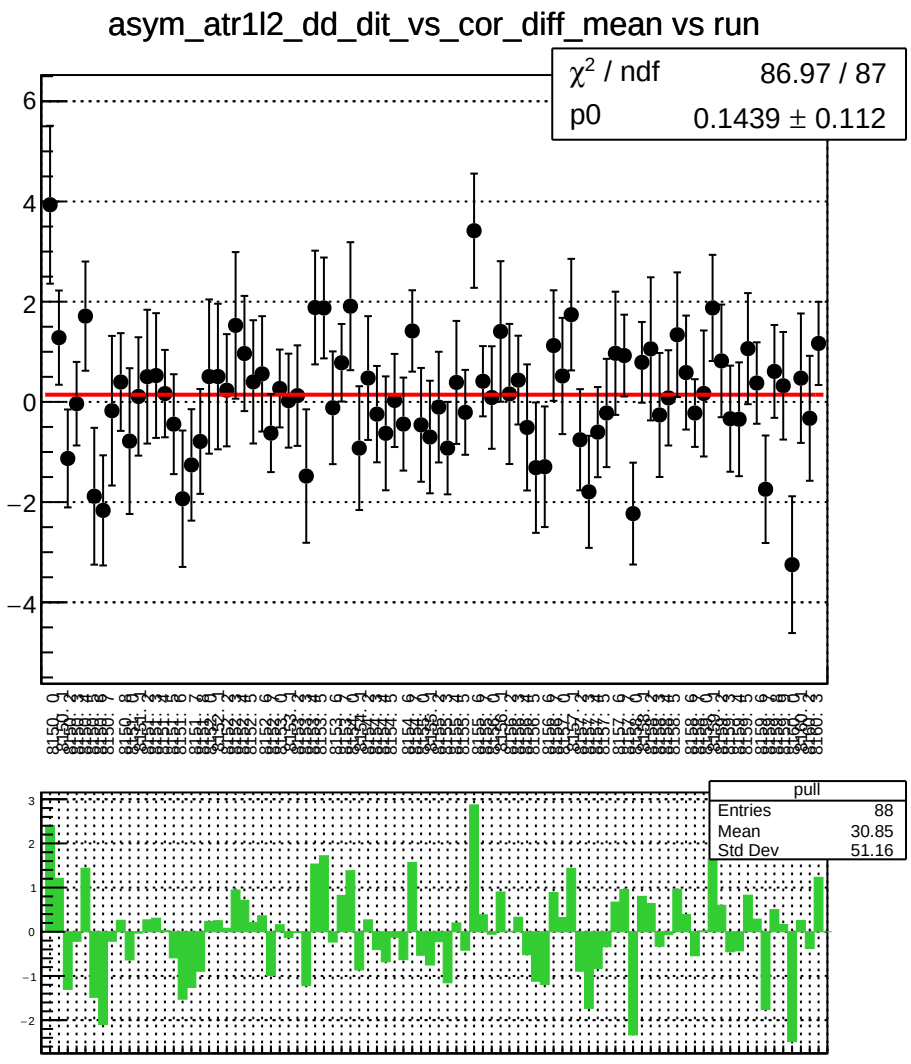

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 94.63 / 87
p0 −8827 ± 4165
100
50
0
−50
−100
−150
pull
Entries 88
Mean −366.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

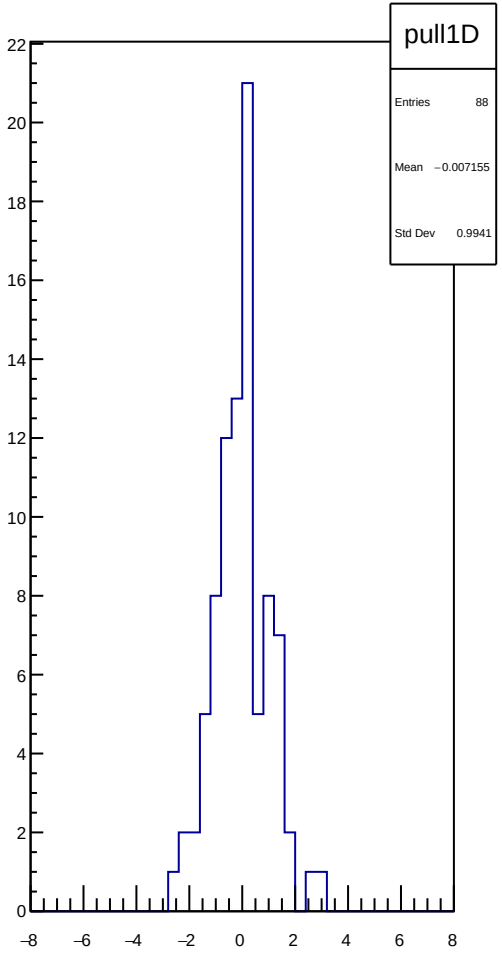

pull1D
Entries 88
Mean 0.004531
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

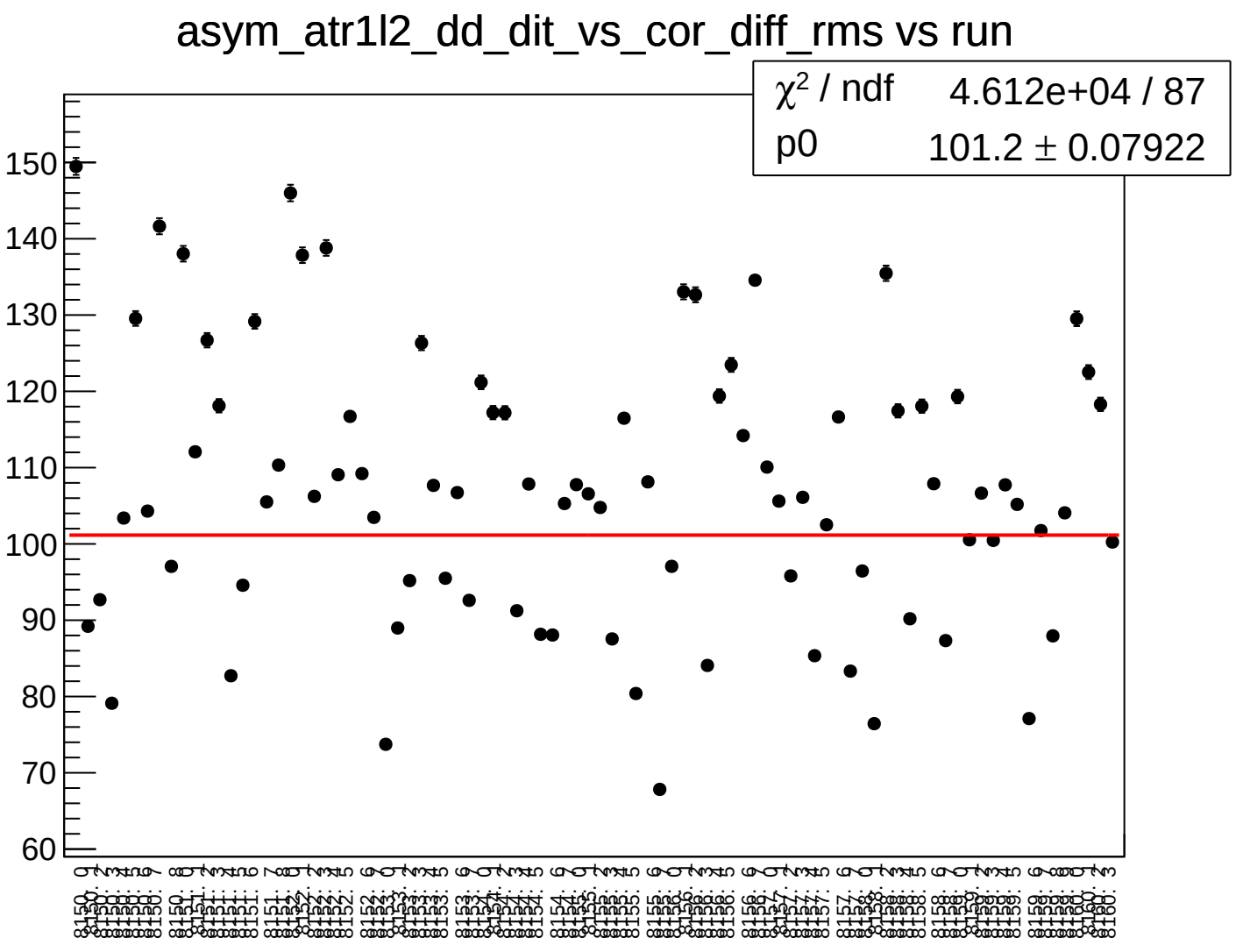

asym_atr1l2_dd_rms vs run
χ^2 / ndf 1125 / 87
p0 3812 ± 2.945
4200
4100
4000
3900
3800
3700
3600
3500

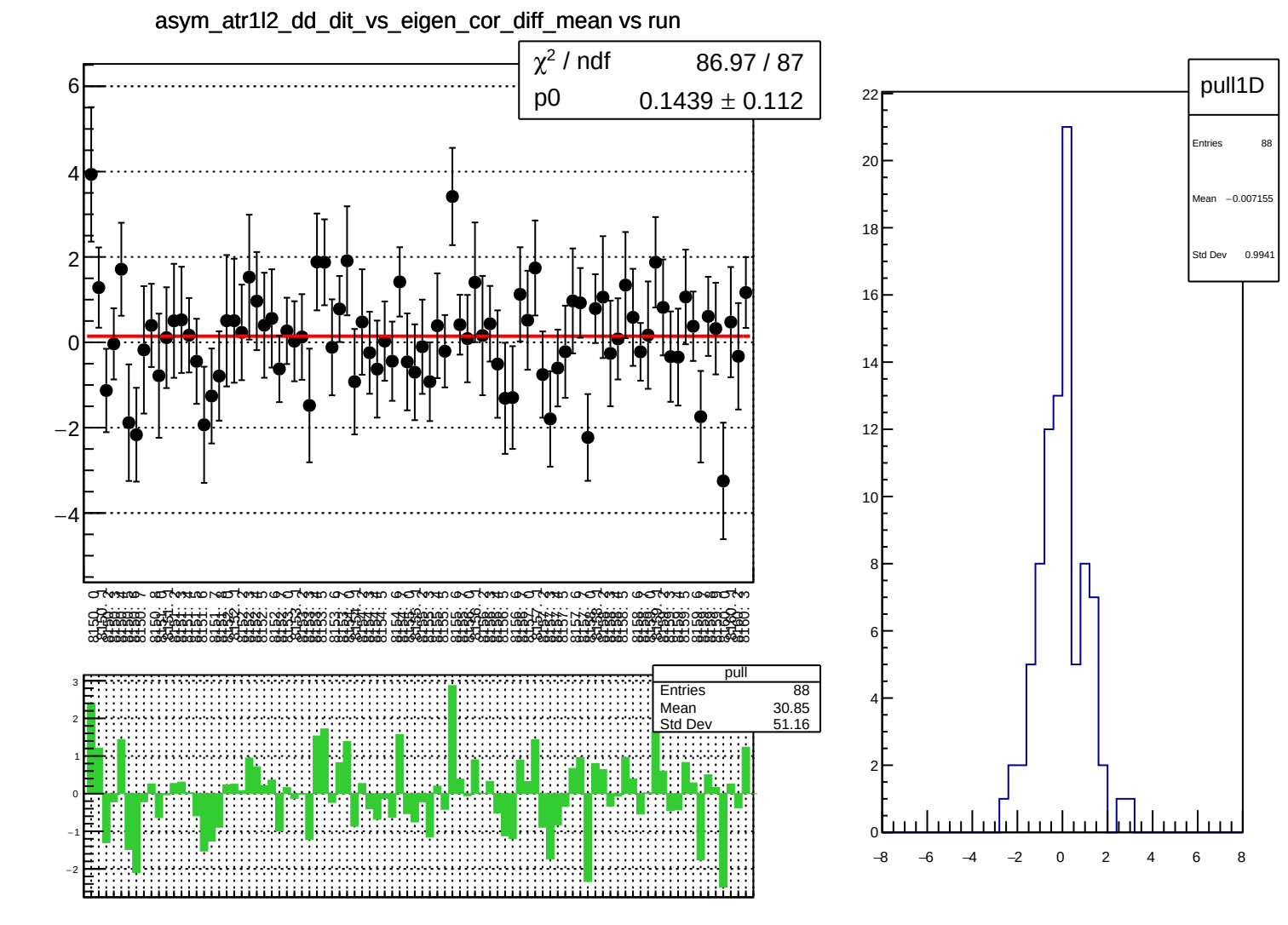

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.48 / 87
p0 3.745e−13 ± 3.127e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 17.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean 0.04961
Std Dev 0.9843
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

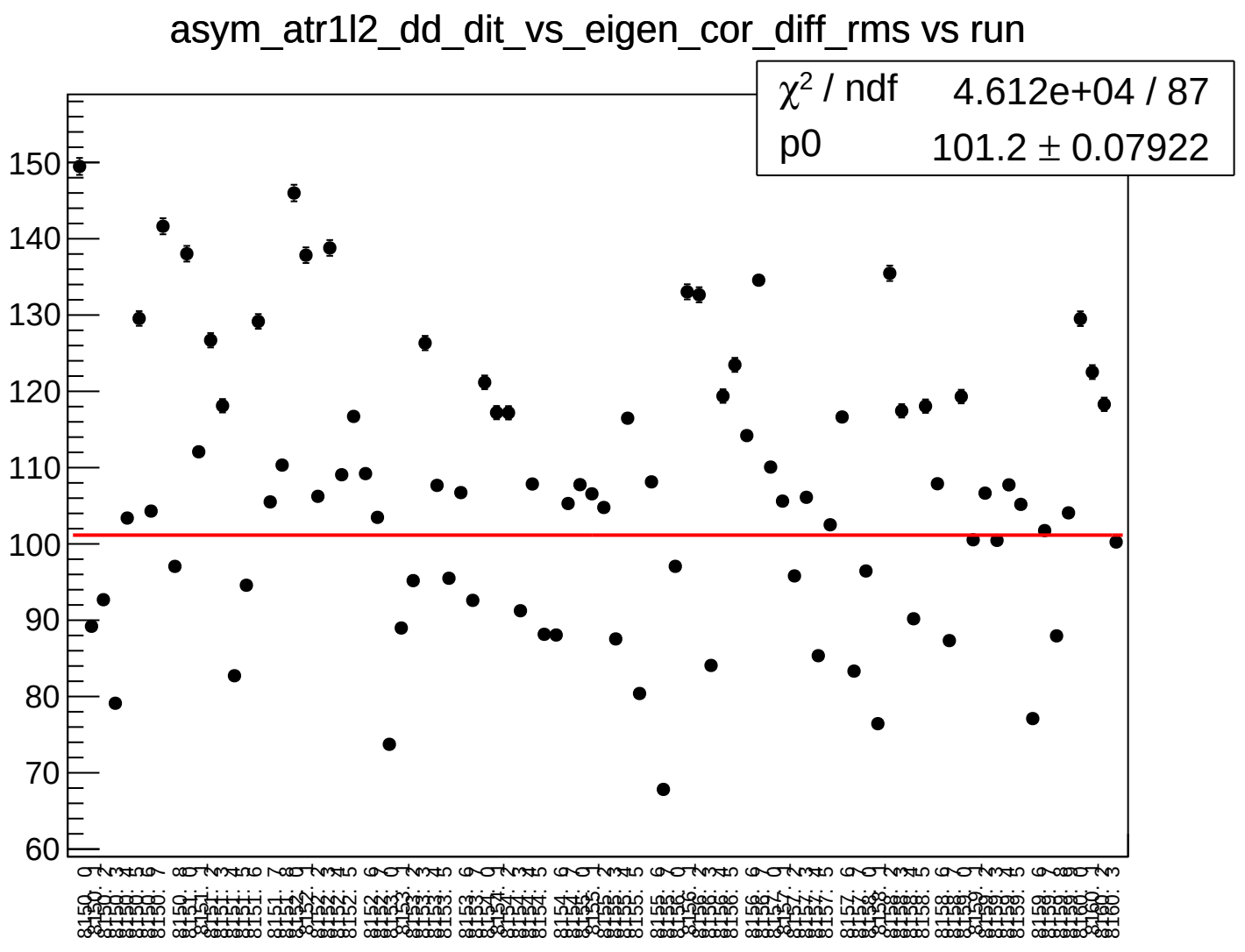

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.169e+05 / 87
p0 2.05e−10 ± 2.211e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

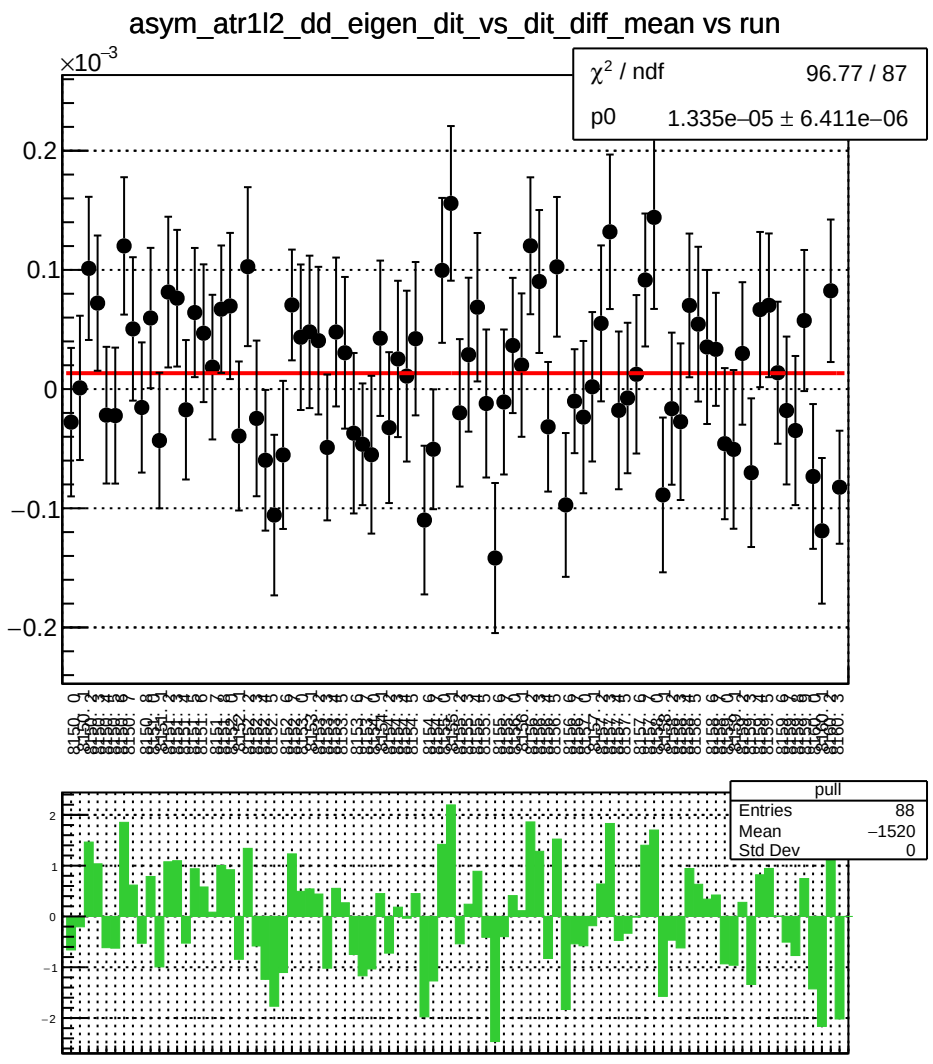

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.97 / 87
p0 0.1439 ± 0.112
pull
Entries 88
Mean 30.85
Std Dev 51.16

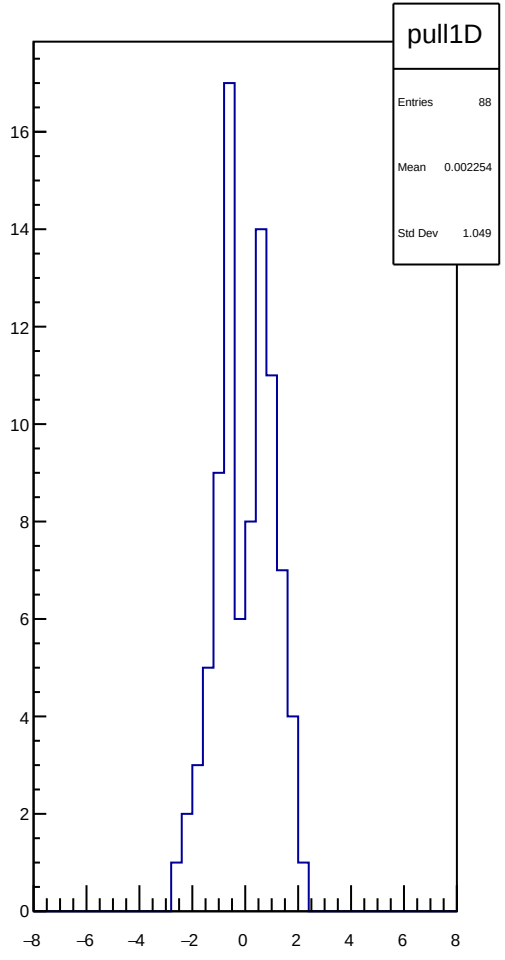

pull1D
Entries 88
Mean −0.007155
Std Dev 0.9941

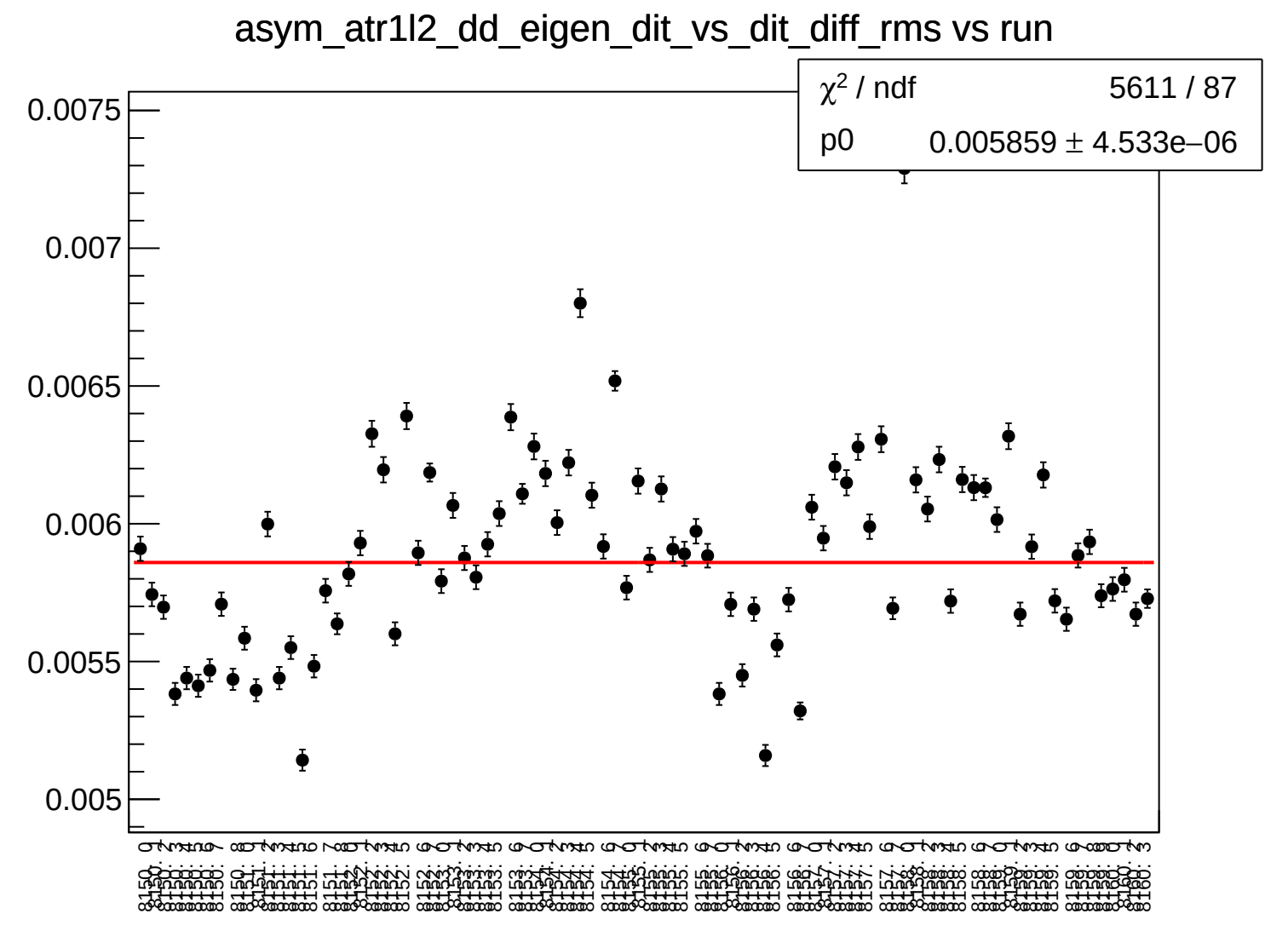

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.612e+04 / 87
p0 101.2 ± 0.07922
150
140
130
120
110
100
90
80
70
60

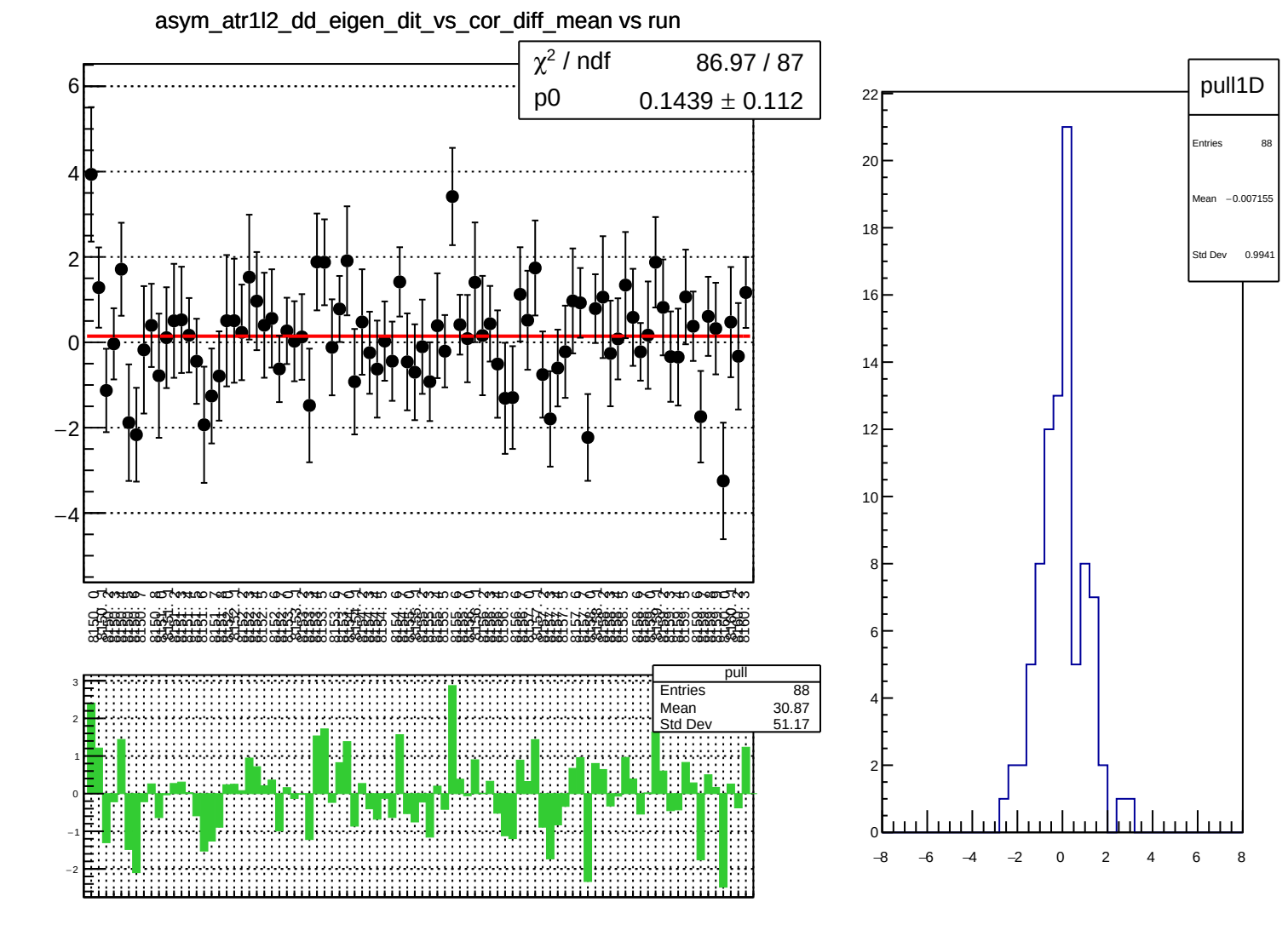

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.97 / 87
p0 0.1439 ± 0.112
pull
Entries 88
Mean 30.85
Std Dev 51.16
pull1D
Entries 88
Mean −0.007155
Std Dev 0.9941

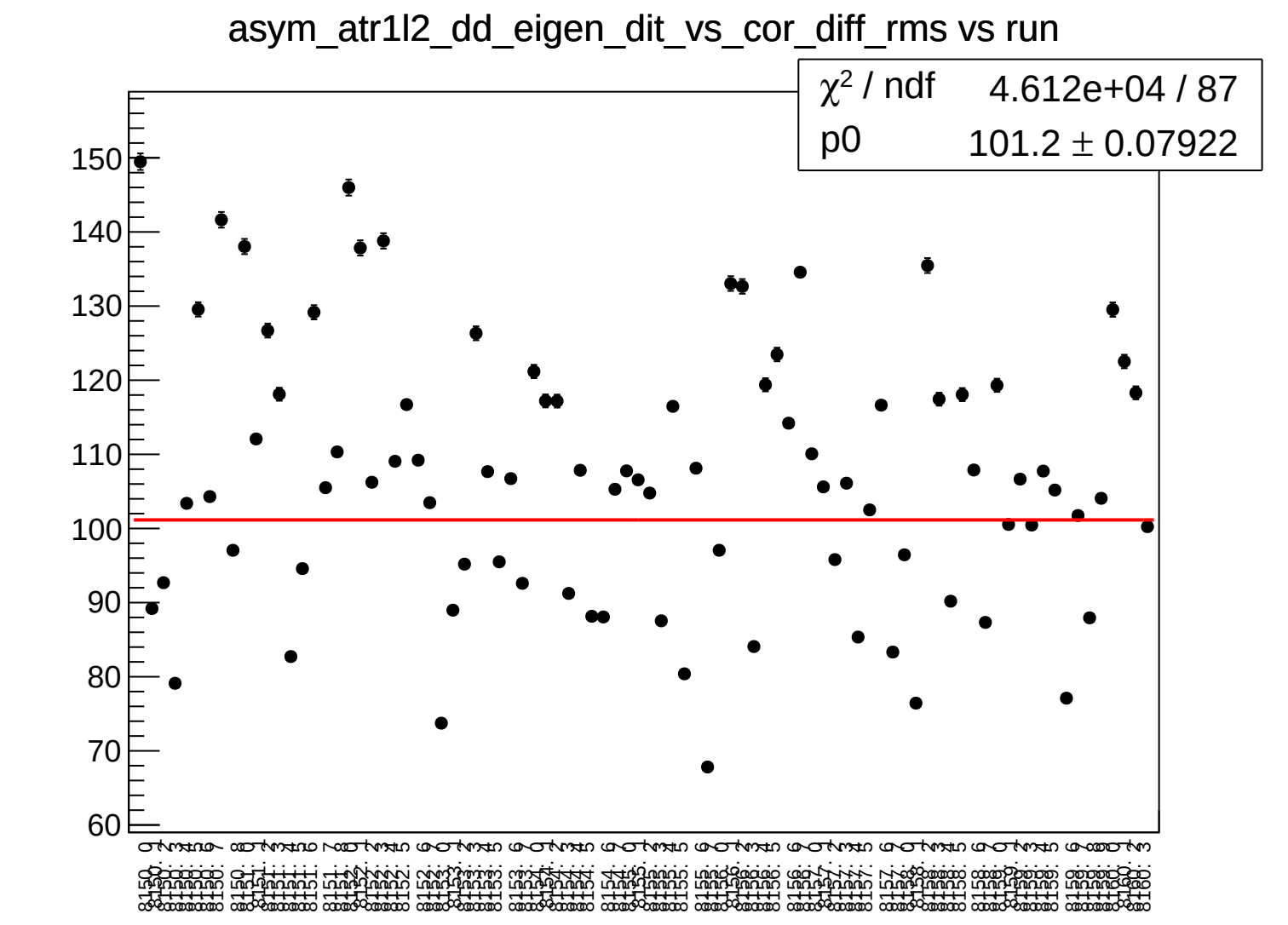

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.612e+04 / 87
p0 101.2 ± 0.07922
150
140
130
120
110
100
90
80
70
60

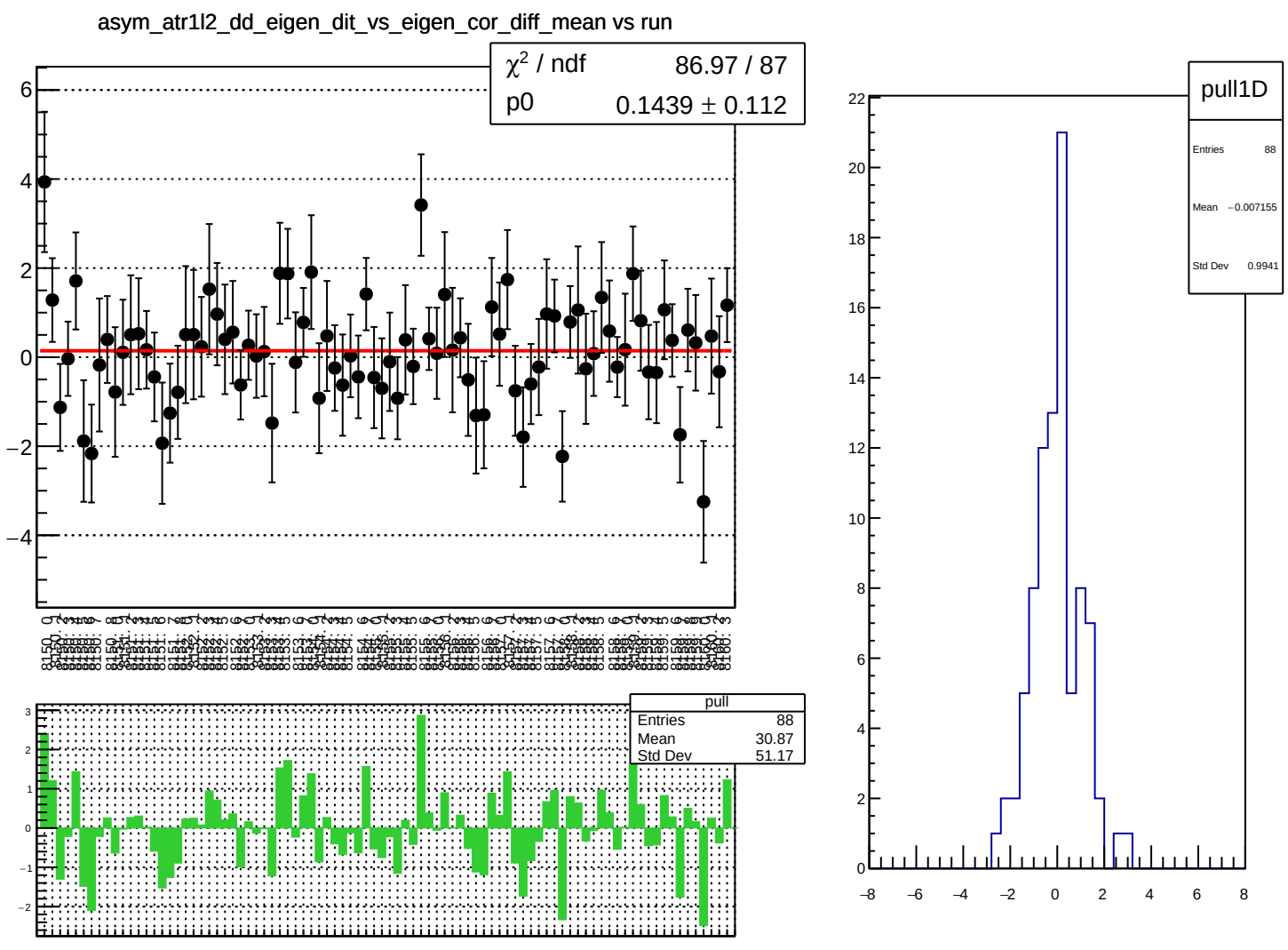

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.77 / 87
p0 1.335e−05 ± 6.411e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean −1520
Std Dev 0
2
1
0
−1
−2

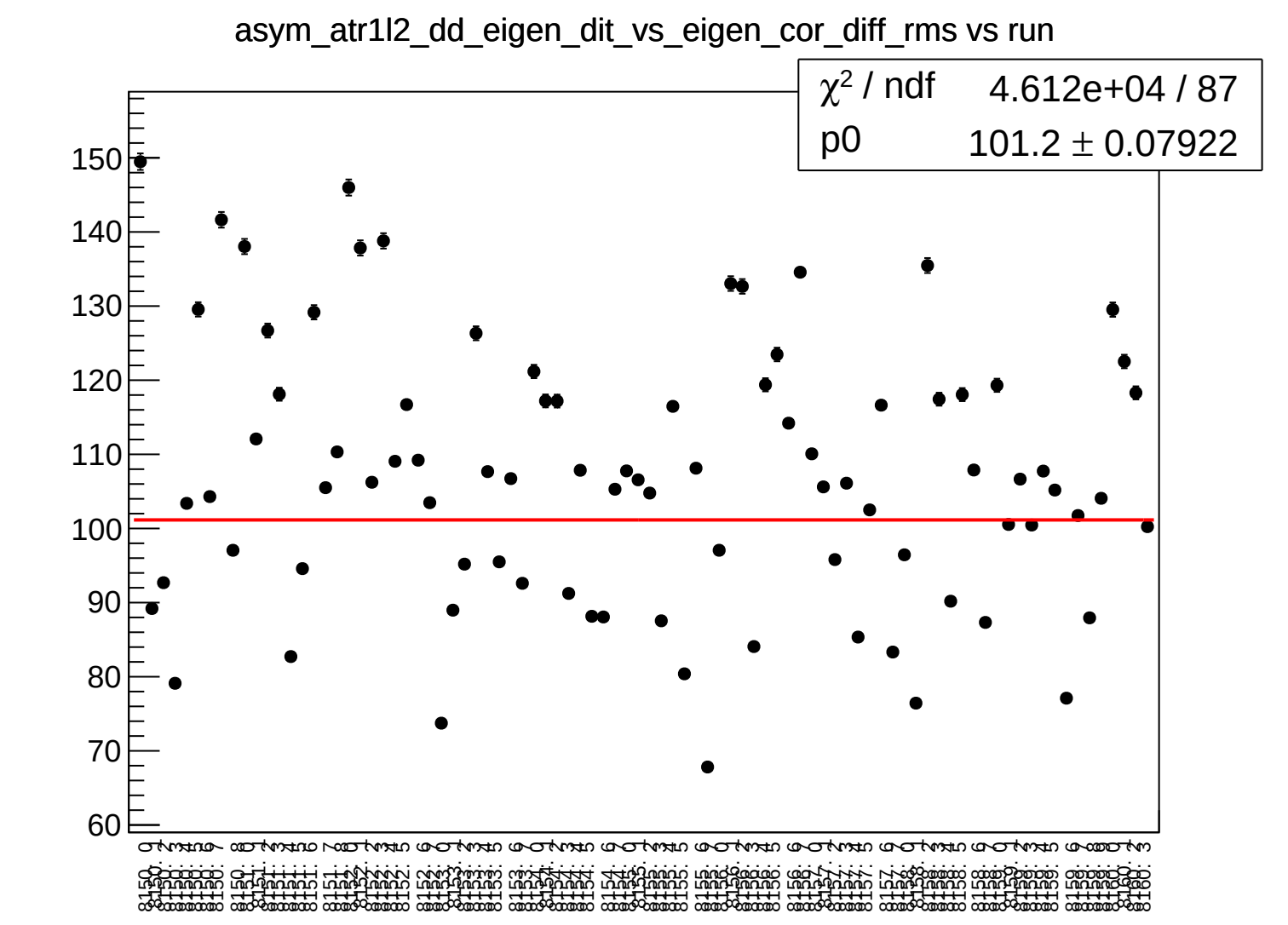

pull1D
Entries 88
Mean 0.002254
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

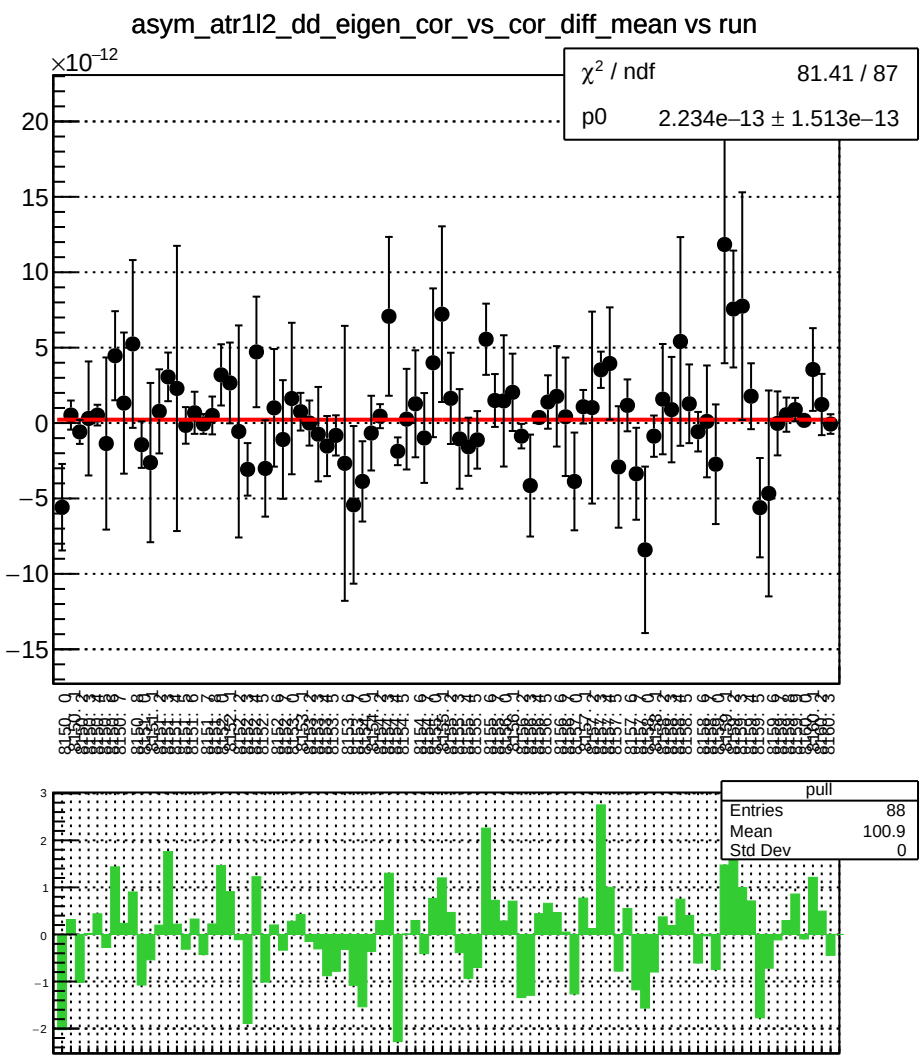

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5611 / 87
p0 0.005859 ± 4.533e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005

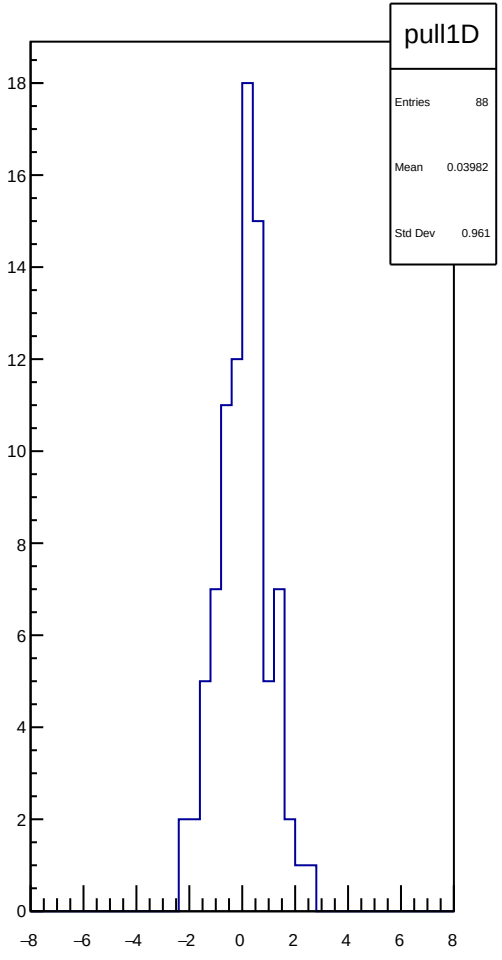

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.97 / 87
p0 0.1439 ± 0.112
pull
Entries 88
Mean 30.87
Std Dev 51.17
pull1D
Entries 88
Mean −0.007155
Std Dev 0.9941

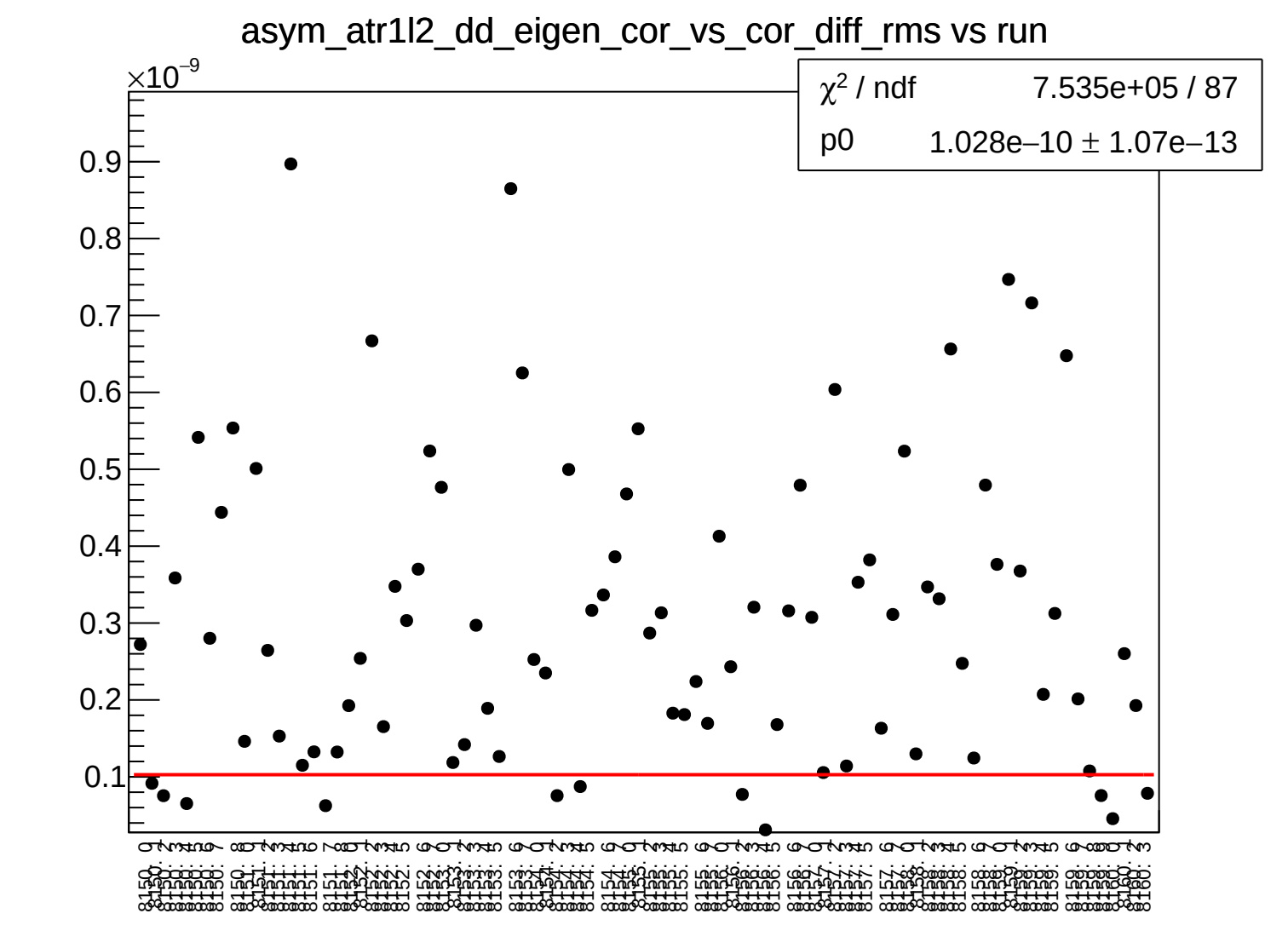

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.612e+04 / 87
p0 101.2 ± 0.07922
150
140
130
120
110
100
90
80
70
60

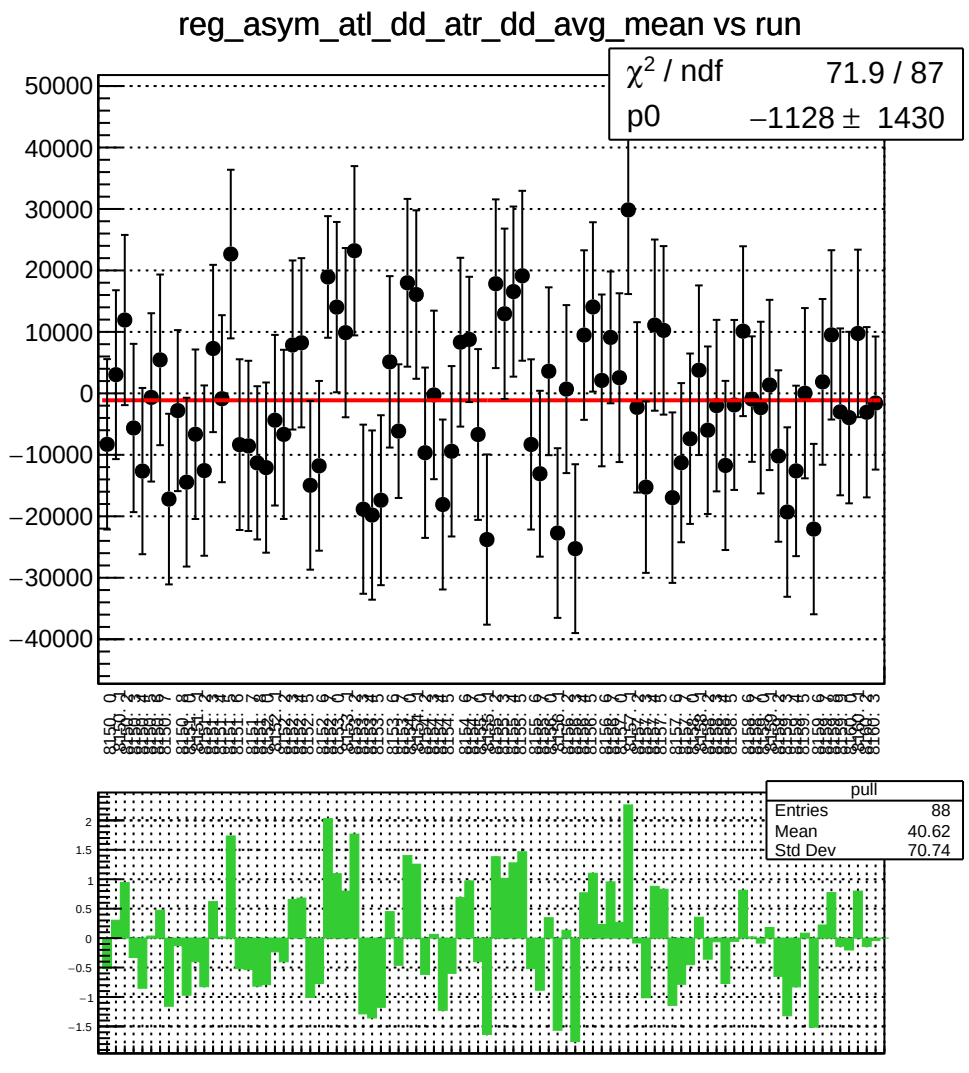

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.97 / 87
p0 0.1439 ± 0.112
pull
Entries 88
Mean 30.87
Std Dev 51.17
pull1D
Entries 88
Mean −0.007155
Std Dev 0.9941

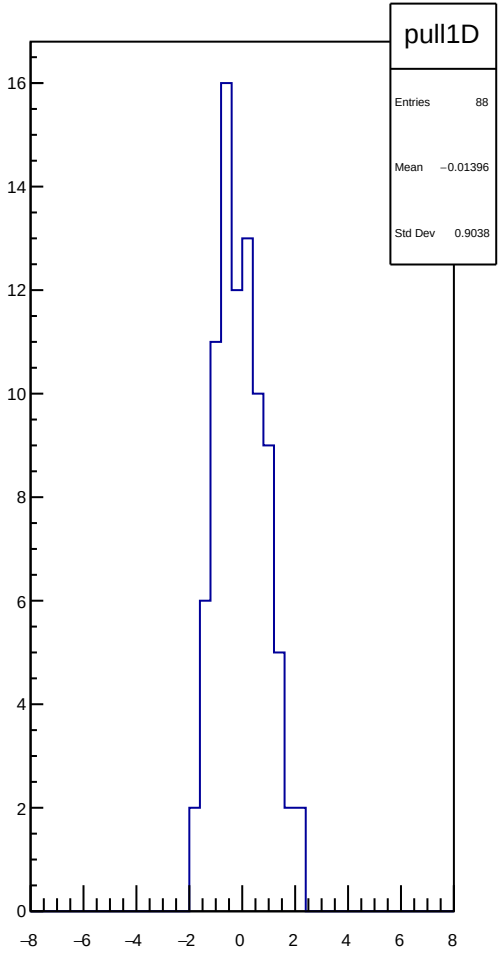

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.612e+04 / 87
p0 101.2 ± 0.07922
150
140
130
120
110
100
90
80
70
60

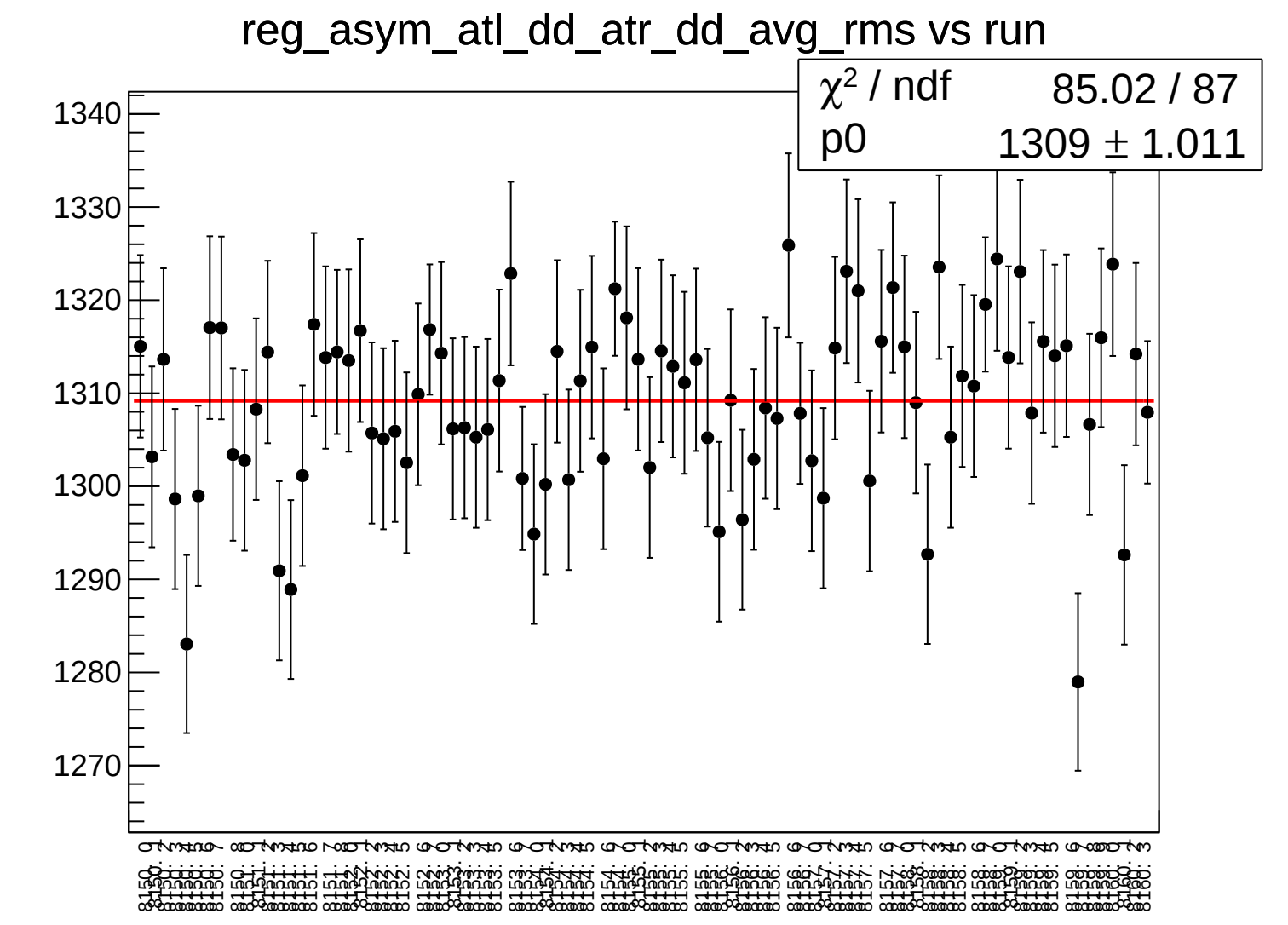

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.41 / 87
p0 2.234e−13 ± 1.513e−13
pull
Entries 88
Mean 100.9
Std Dev 0

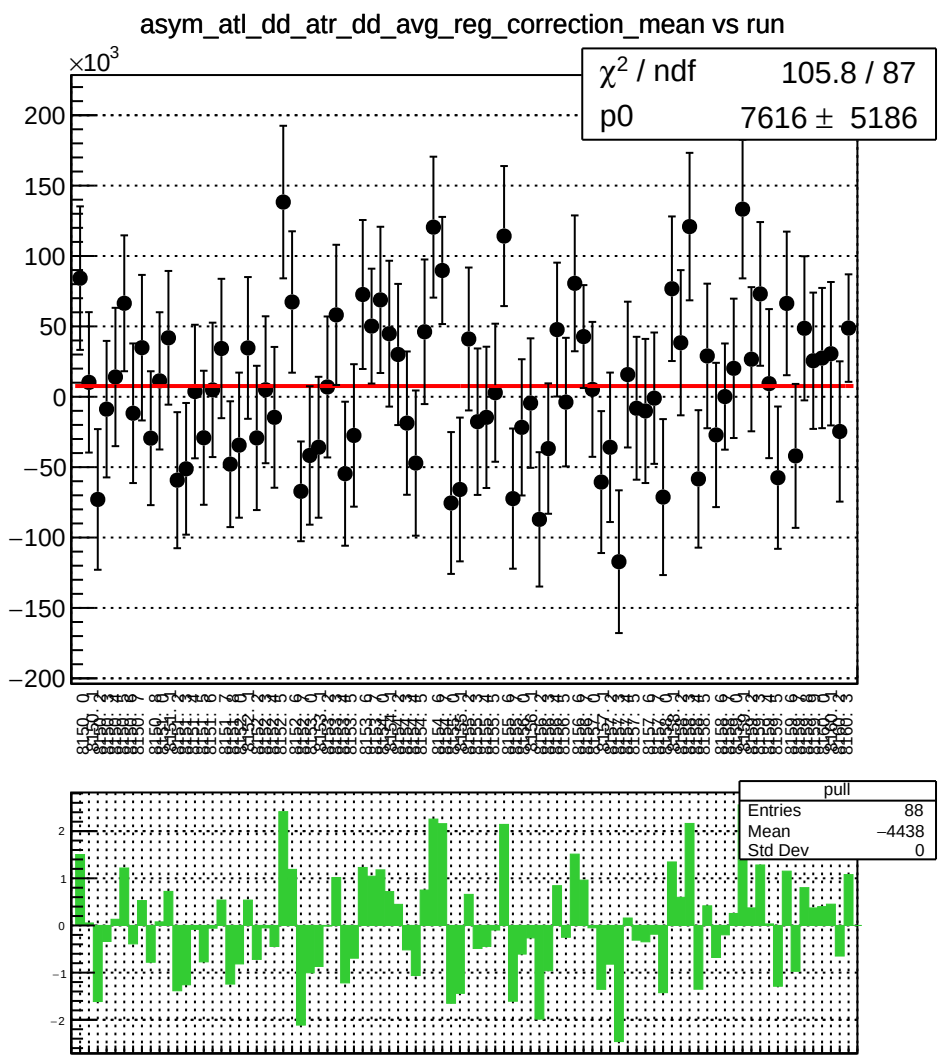

pull1D
Entries 88
Mean 0.03982
Std Dev 0.961

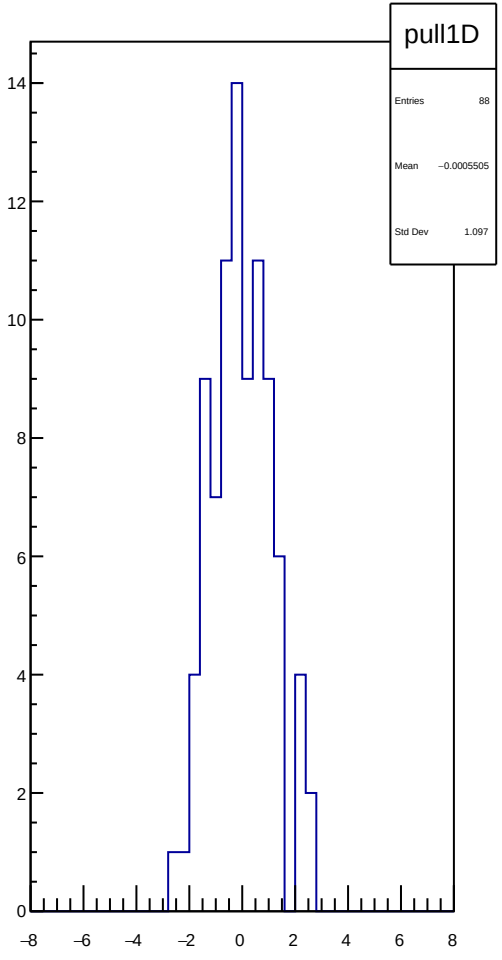

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.535e+05 / 87
p0 1.028e−10 ± 1.07e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

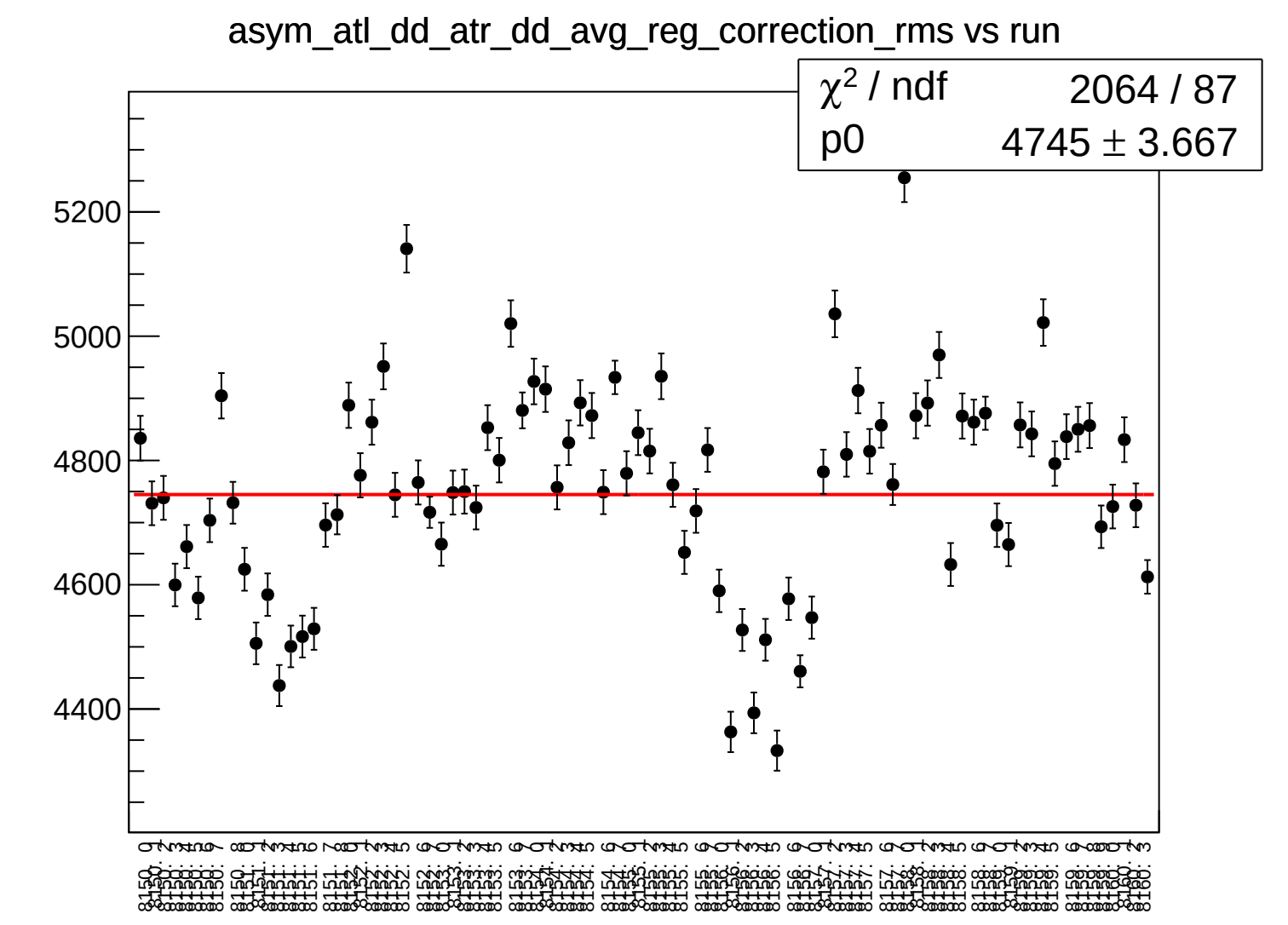

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 71.9 / 87
p0 −1128 ± 1430
pull
Entries 88
Mean 40.62
Std Dev 70.74

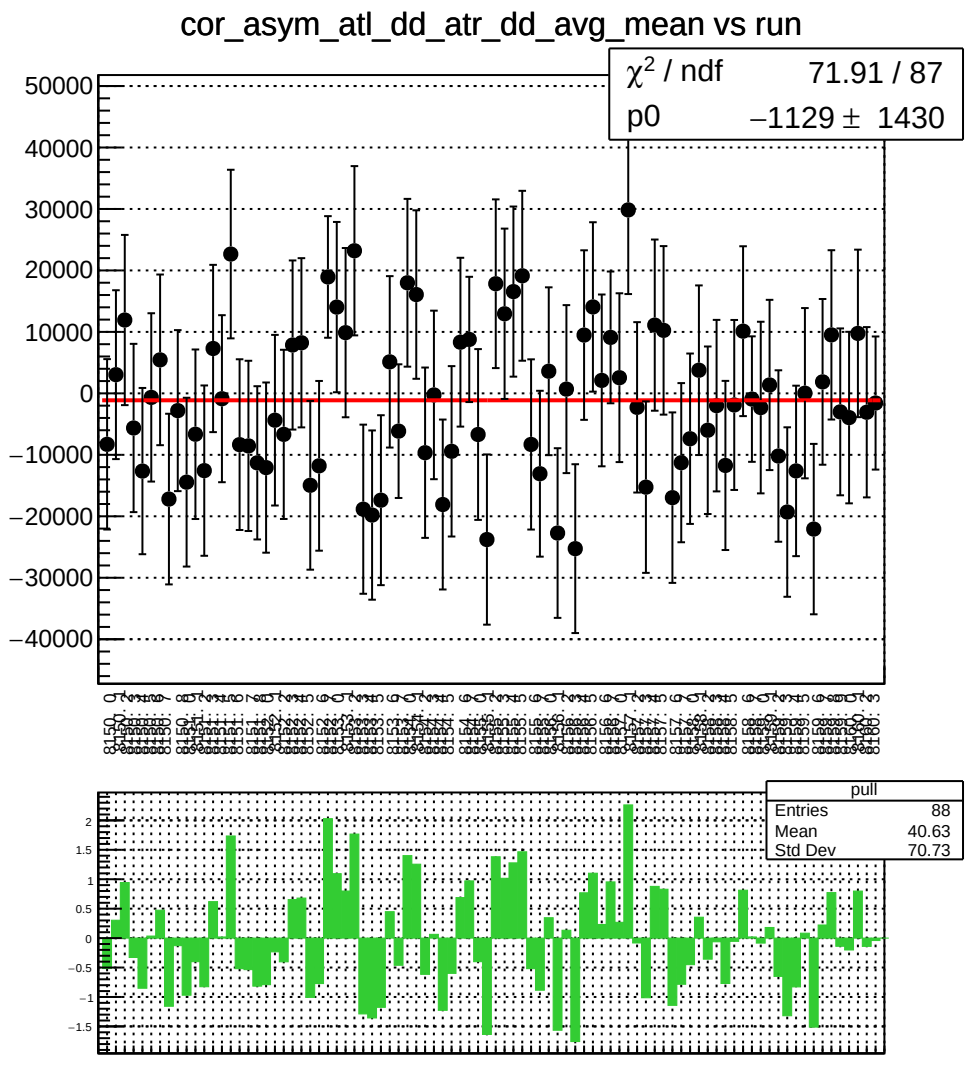

pull1D
Entries 88
Mean −0.01396
Std Dev 0.9038

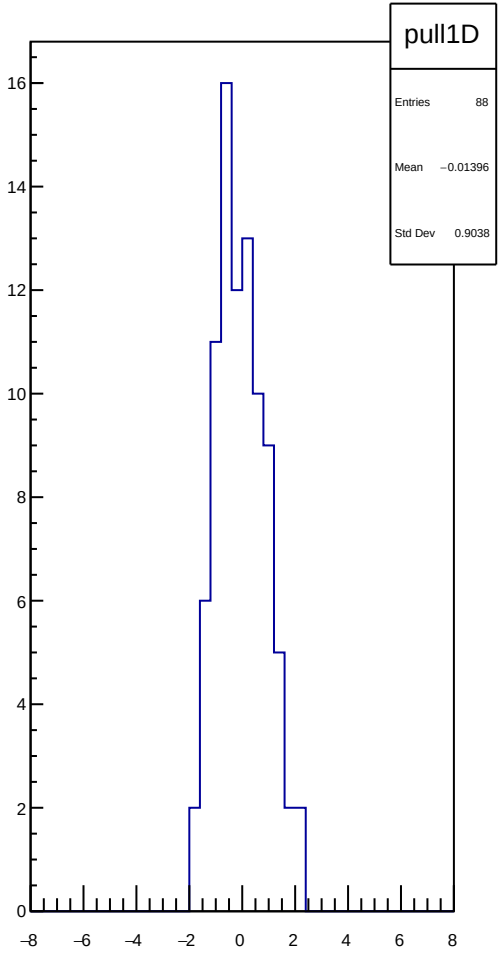

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 85.02 / 87
p0 1309 ± 1.011
1340
1330
1320
1310
1300
1290
1280
1270

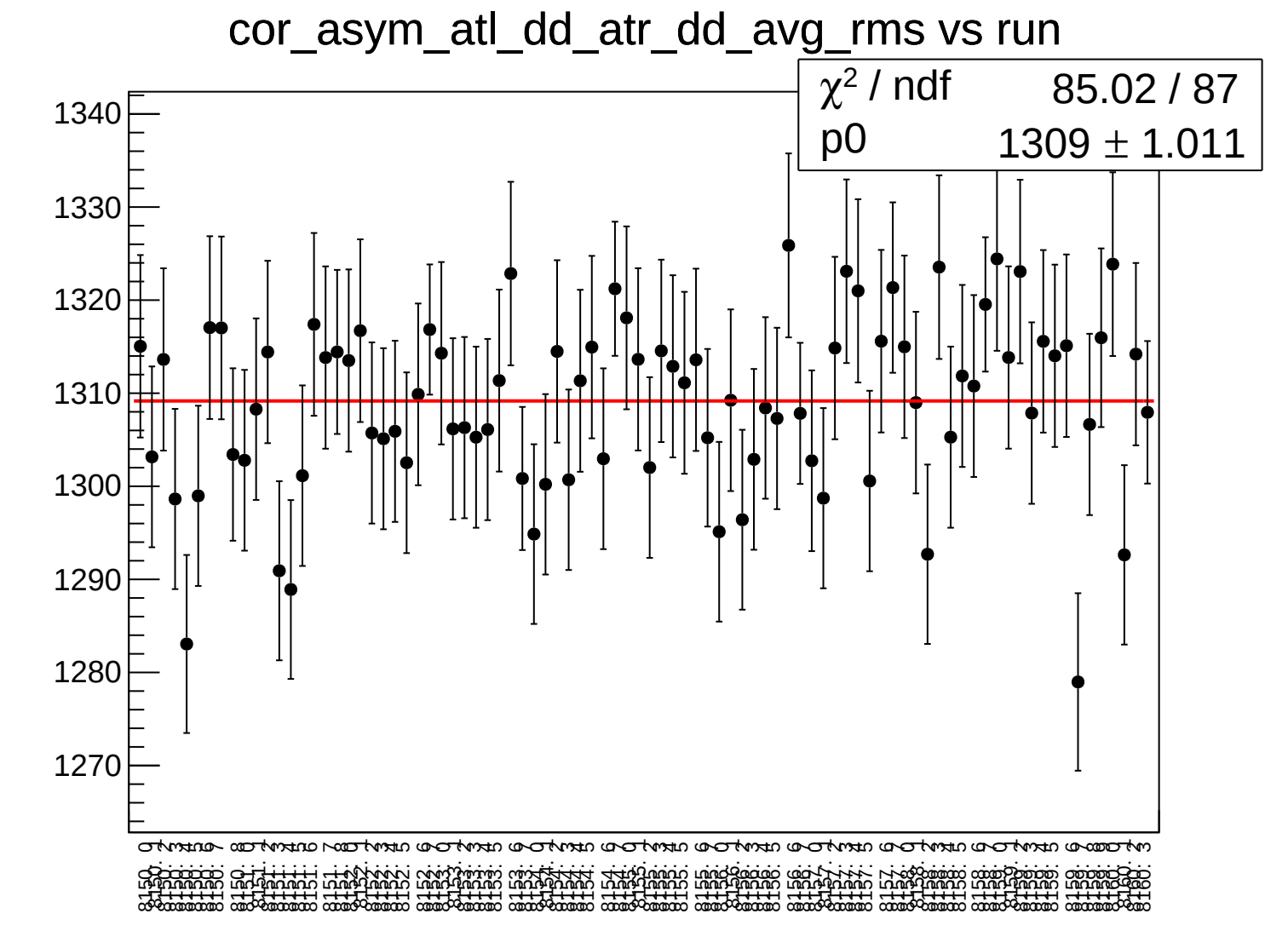

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 105.8 / 87
p0 7616 ± 5186
pull
Entries 88
Mean −4438
Std Dev 0

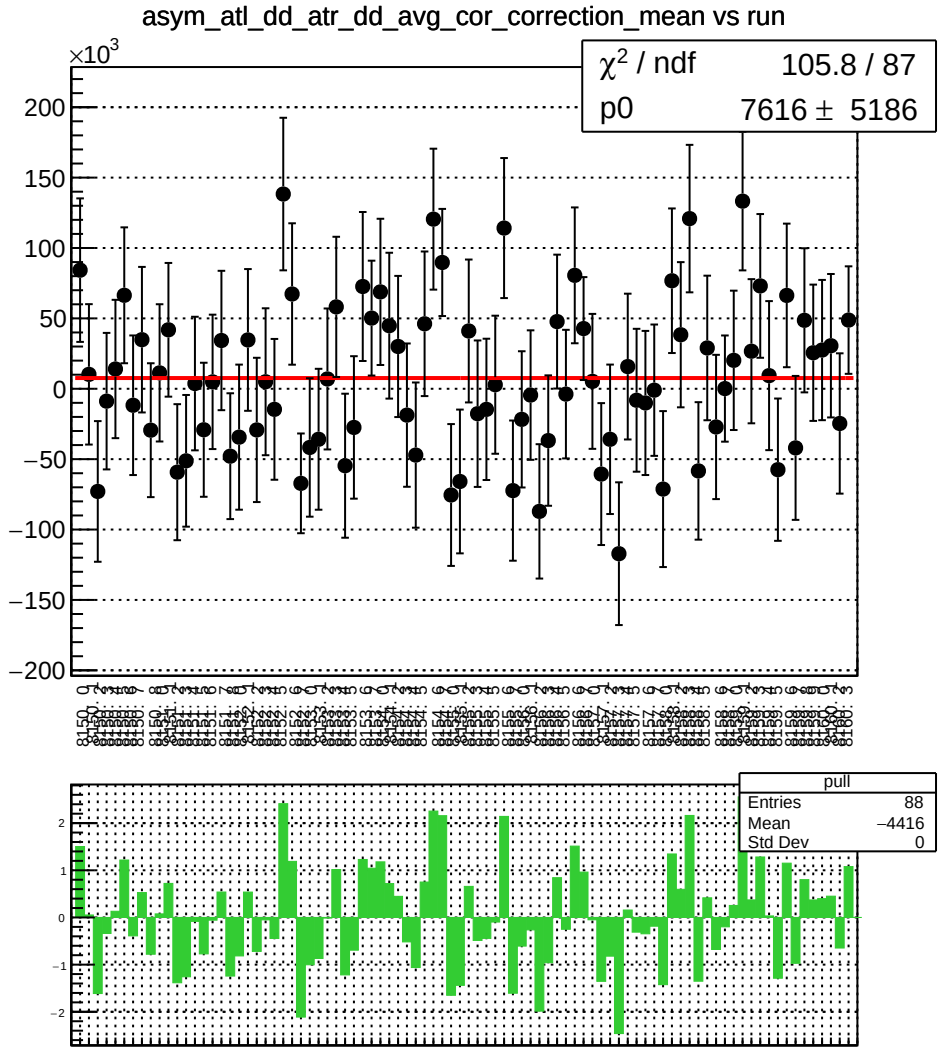

pull1D
Entries 88
Mean −0.0005505
Std Dev 1.097

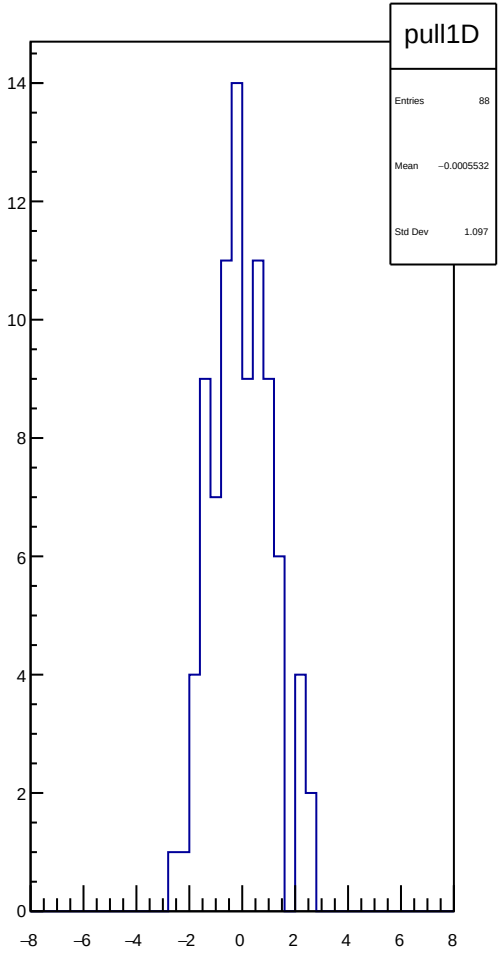

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 2064 / 87
p0 4745 ± 3.667
5200
5000
4800
4600
4400

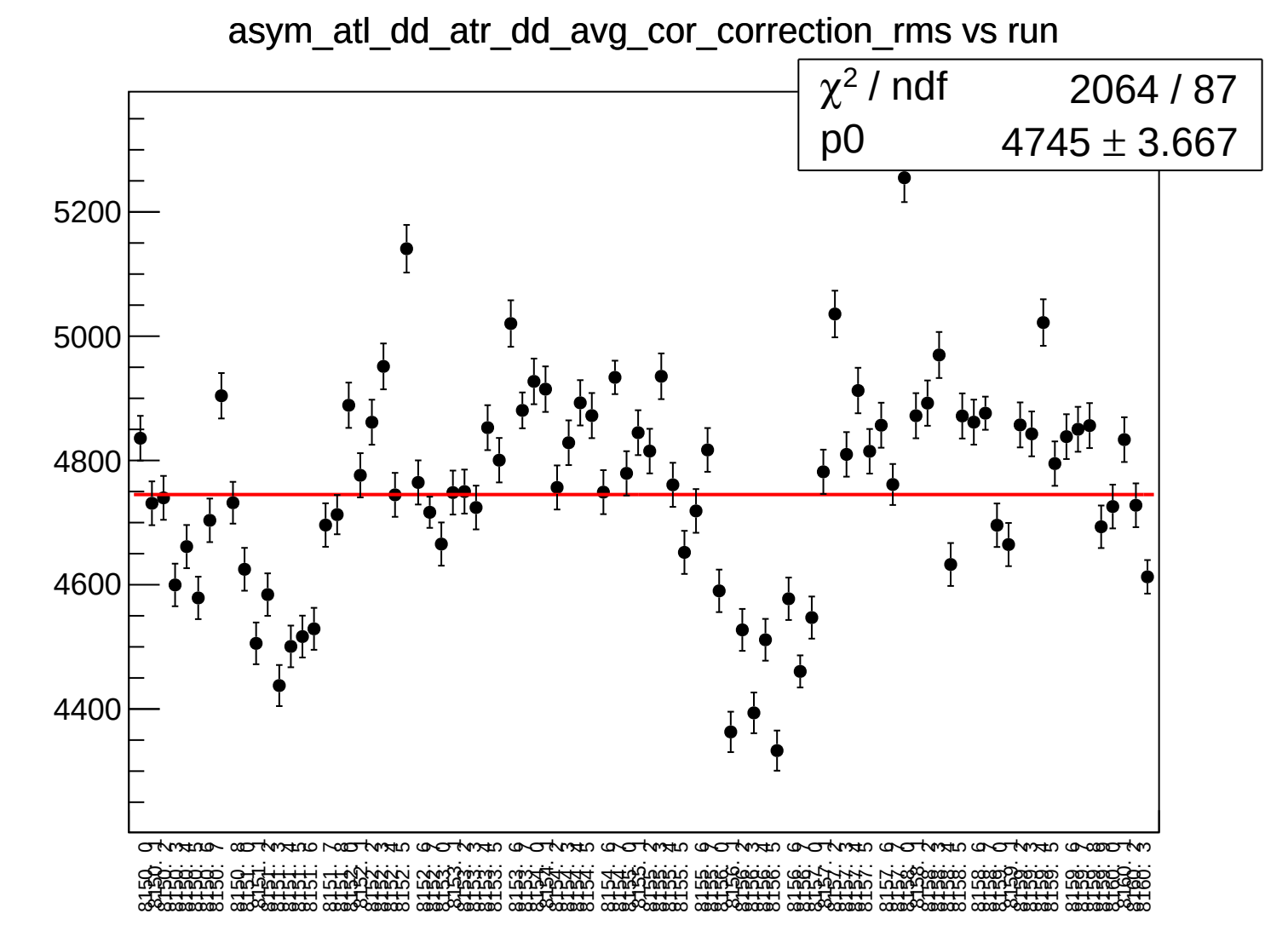

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 71.91 / 87
p0 −1129 ± 1430
pull
Entries 88
Mean 40.63
Std Dev 70.73

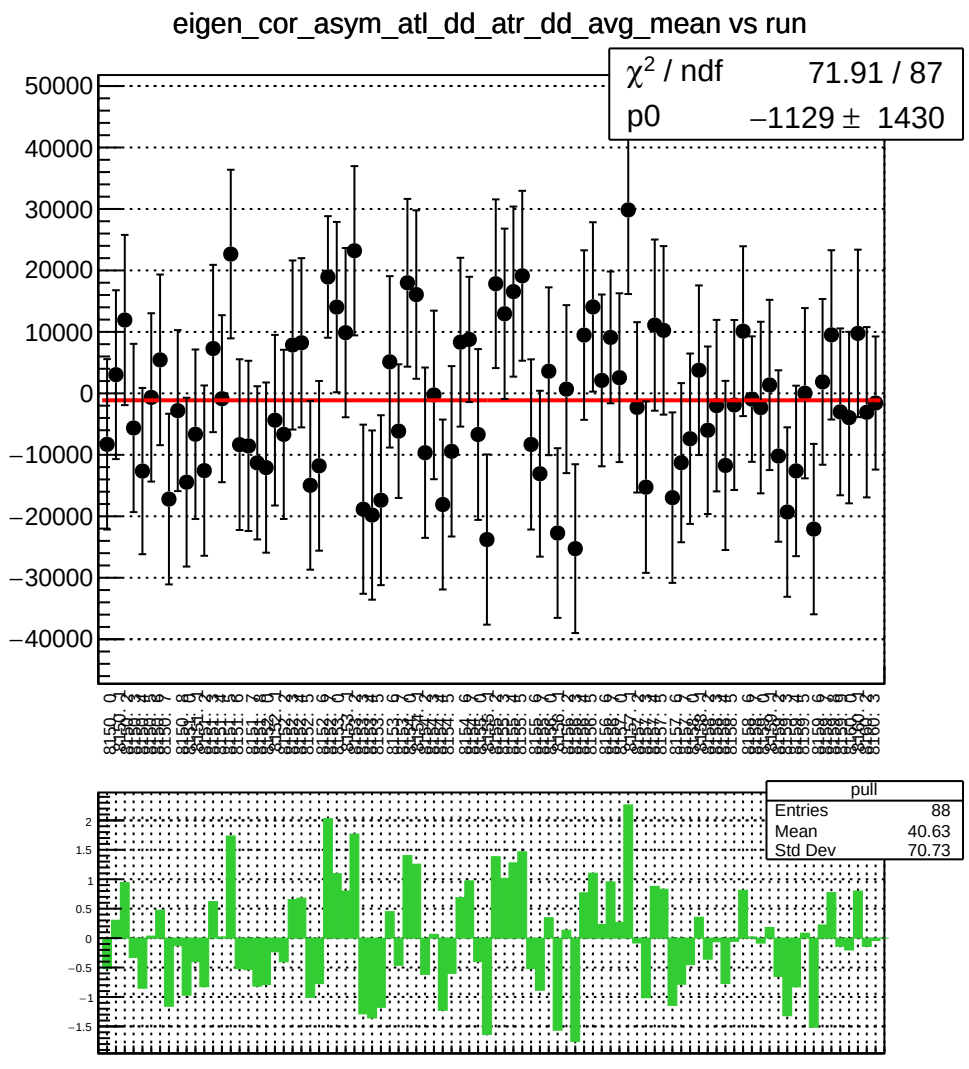

pull1D
Entries 88
Mean −0.01396
Std Dev 0.9038

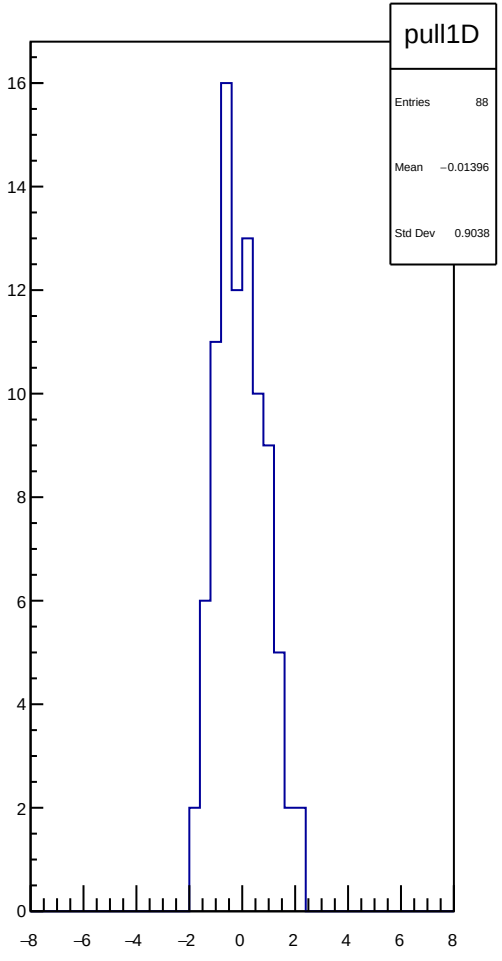

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 85.02 / 87
p0 1309 ± 1.011
1340
1330
1320
1310
1300
1290
1280
1270

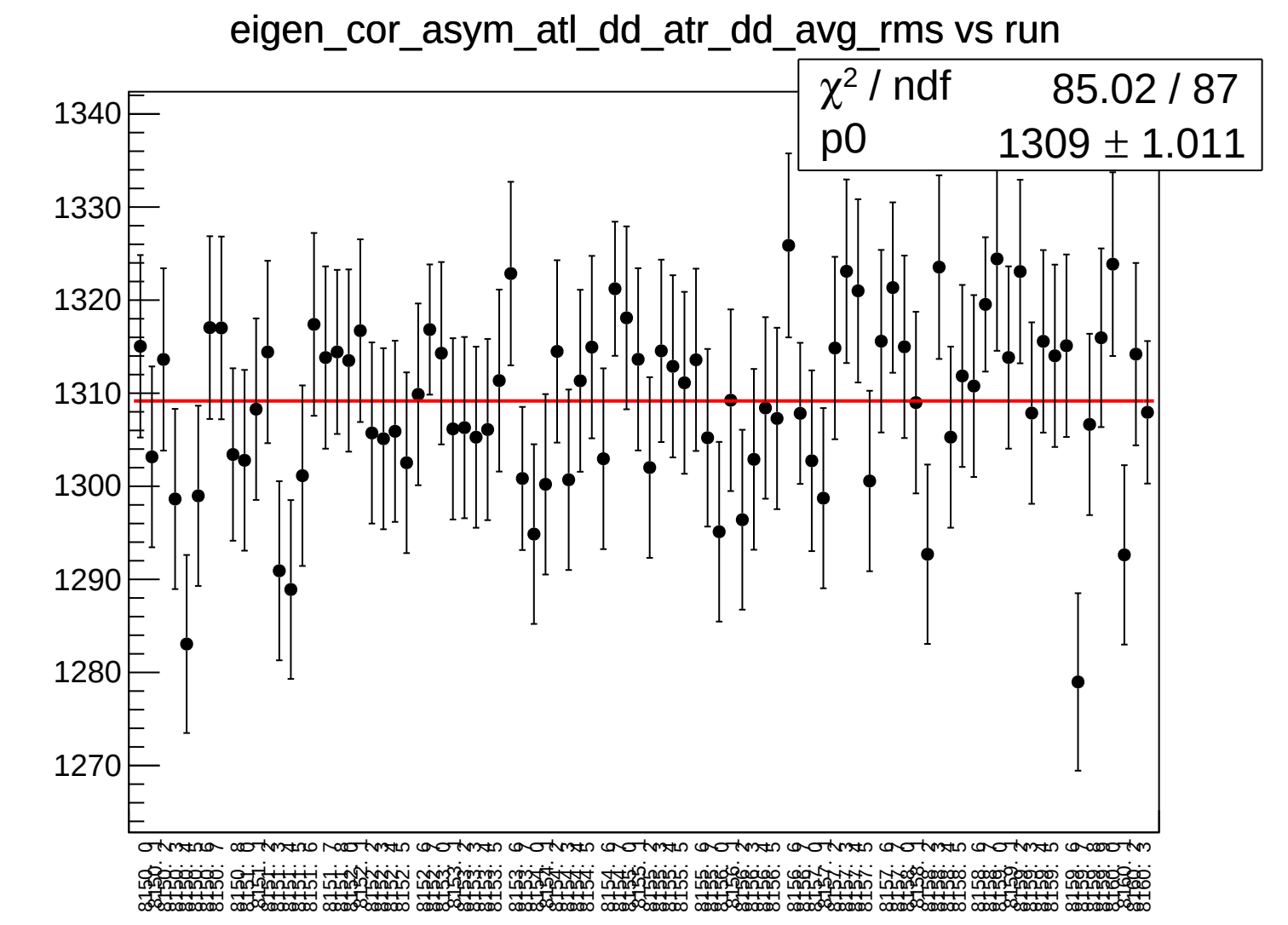

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
χ² / ndf 105.8 / 87
p0 7616 ± 5186
×10³
pull
Entries 88
Mean −4416
Std Dev 0

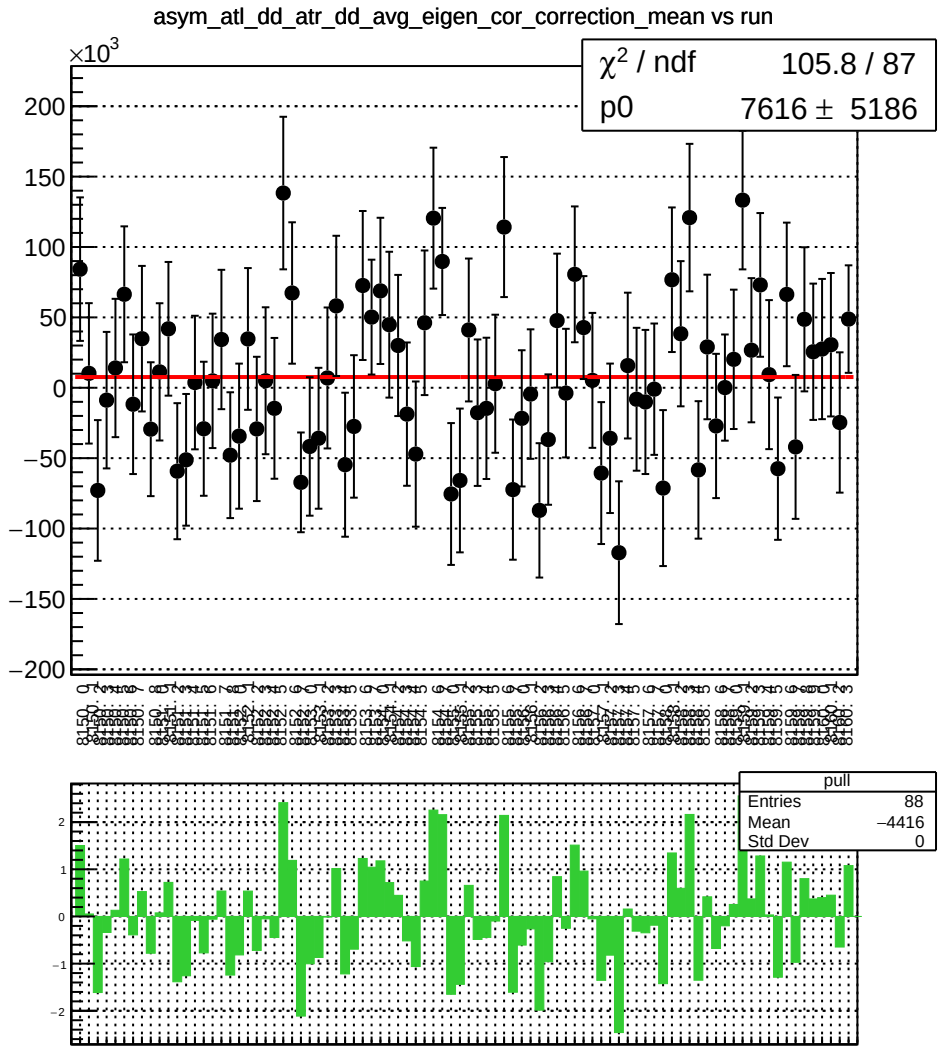

pull1D
Entries 88
Mean −0.0005532
Std Dev 1.097

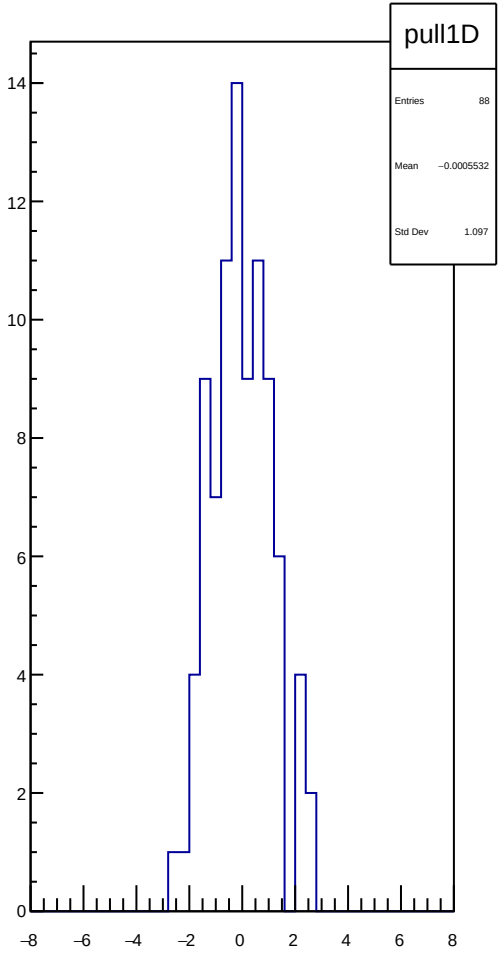

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 2064 / 87
p0 4745 ± 3.667
5200
5000
4800
4600
4400

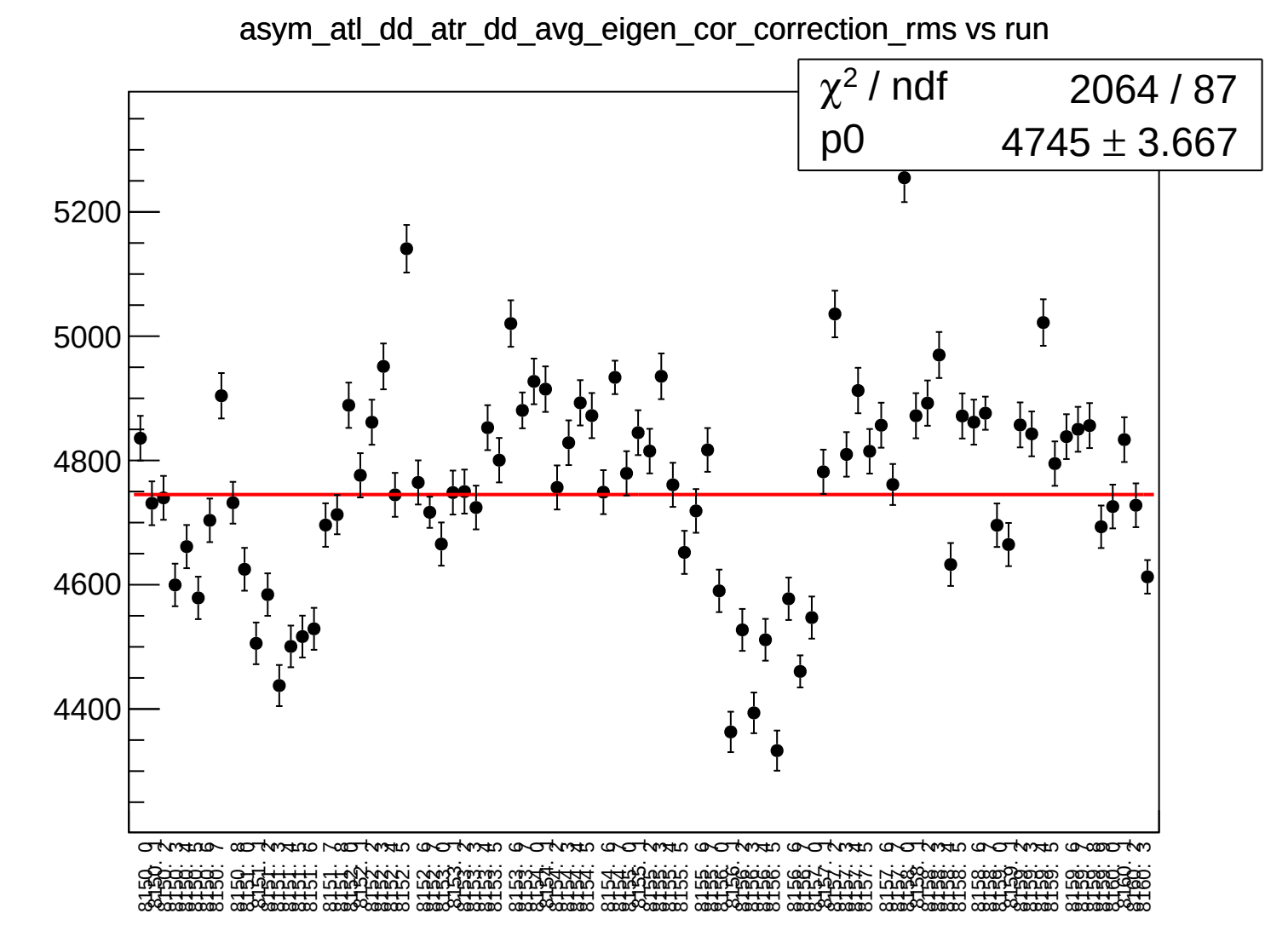

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 71.91 / 87
p0 −1129 ± 1430
pull
Entries 88
Mean 40.63
Std Dev 70.73

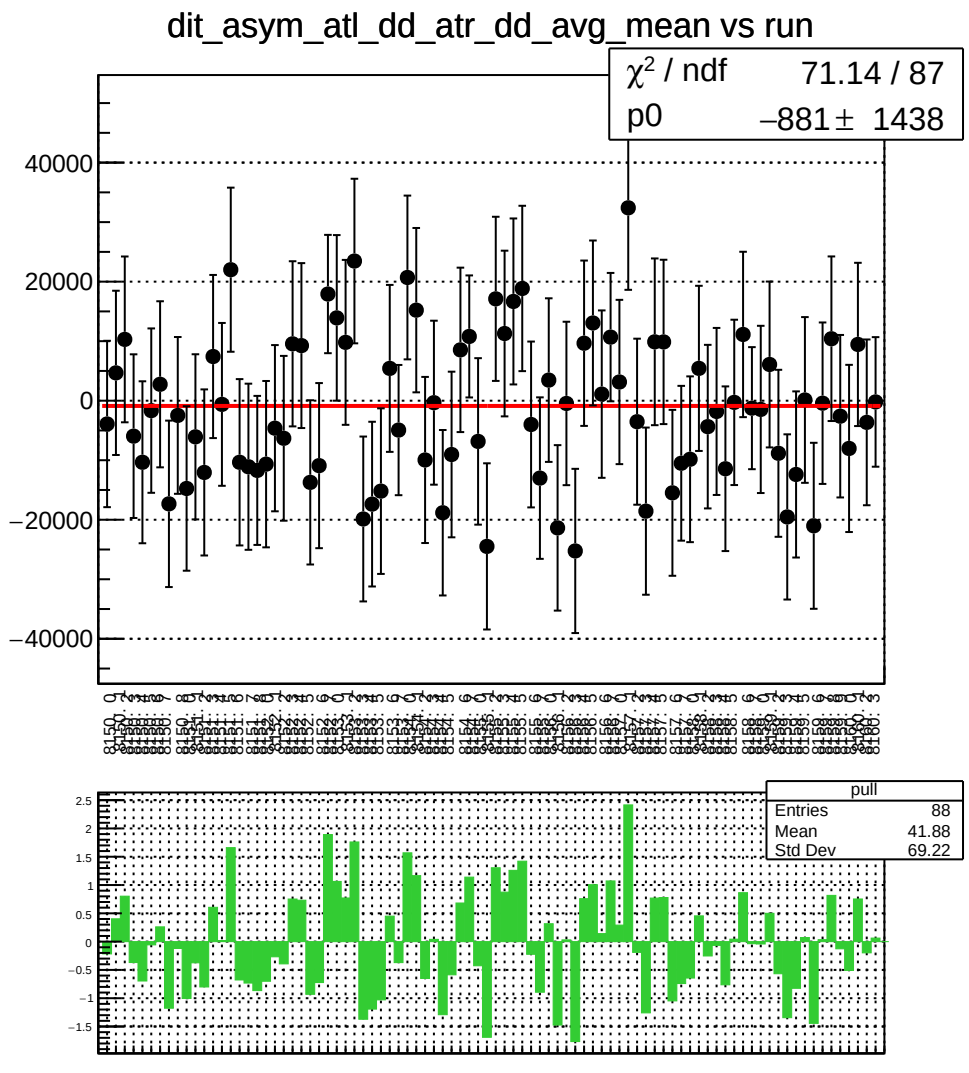

pull1D
Entries 88
Mean −0.01396
Std Dev 0.9038

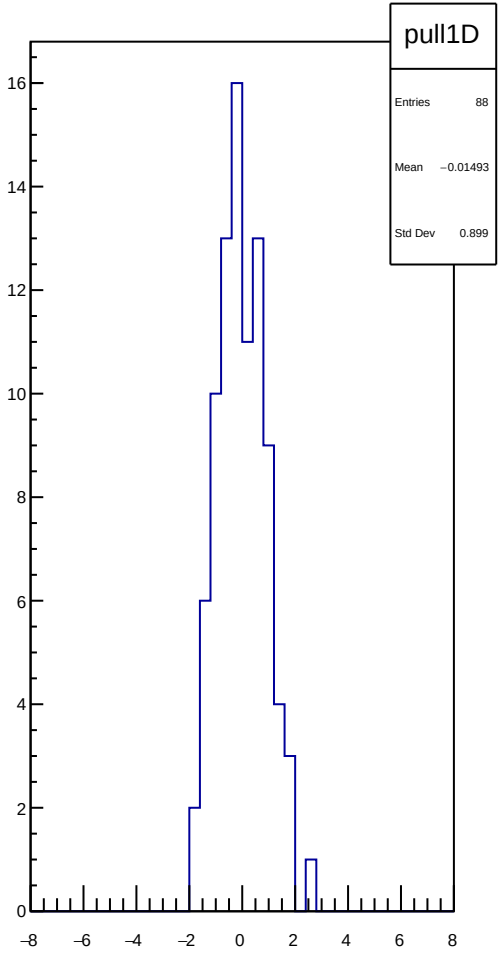

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 85.02 / 87
p0 1309 ± 1.011
1340
1330
1320
1310
1300
1290
1280
1270

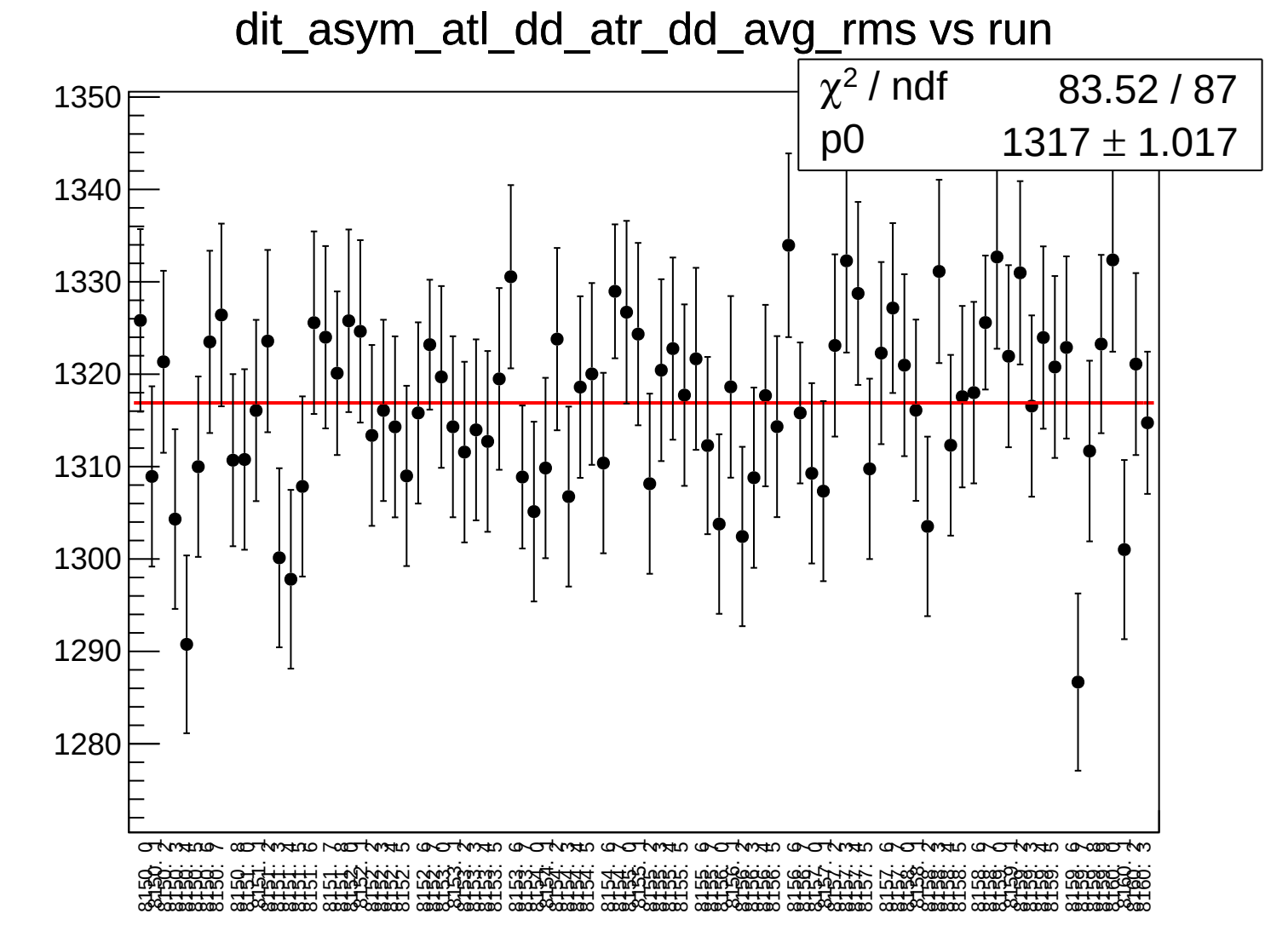

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 105.8 / 87
p0 7616 ± 5186
pull
Entries 88
Mean −4416
Std Dev 0

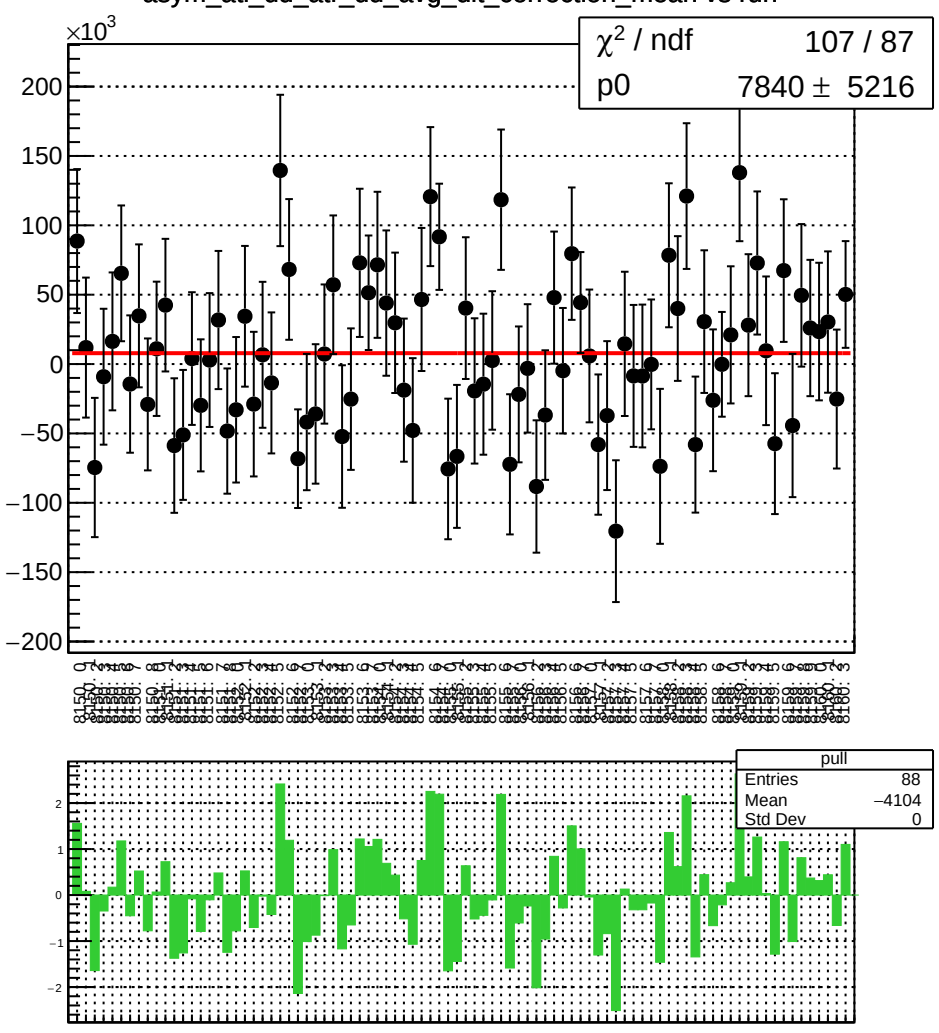

pull1D
Entries 88
Mean −0.0005532
Std Dev 1.097

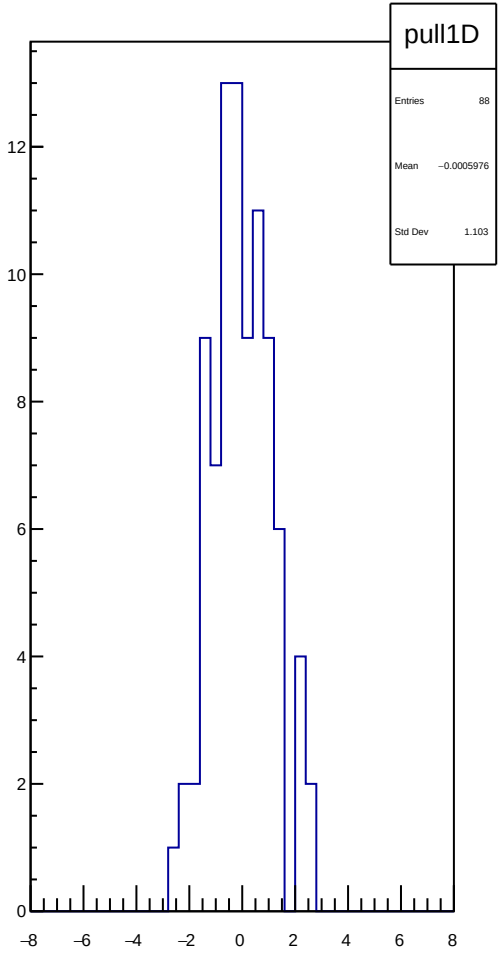

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2064 / 87
p0 4745 ± 3.667
5200
5000
4800
4600
4400

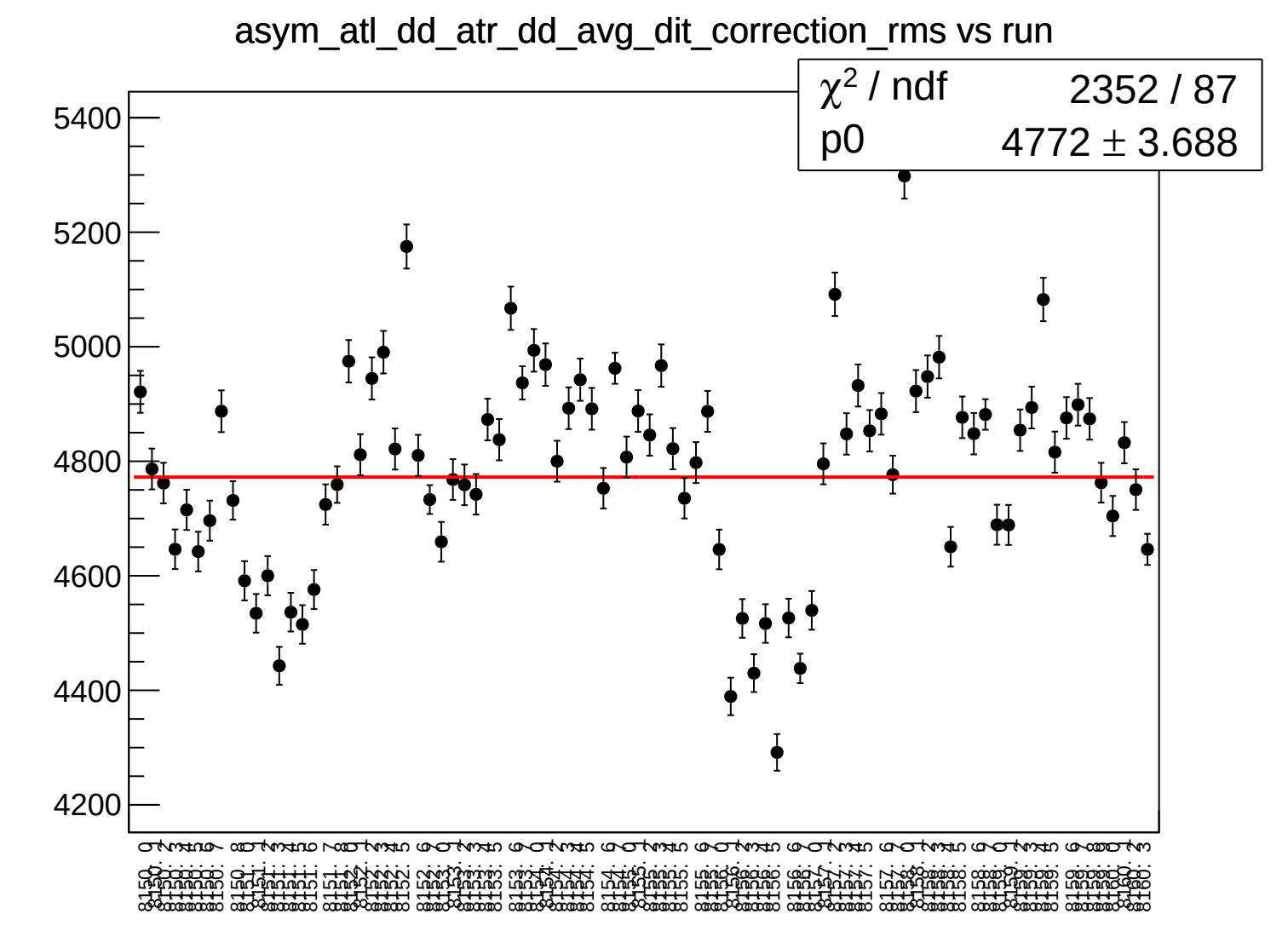

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 71.14 / 87
p0 −881 ± 1438
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 41.88
Std Dev 69.22
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

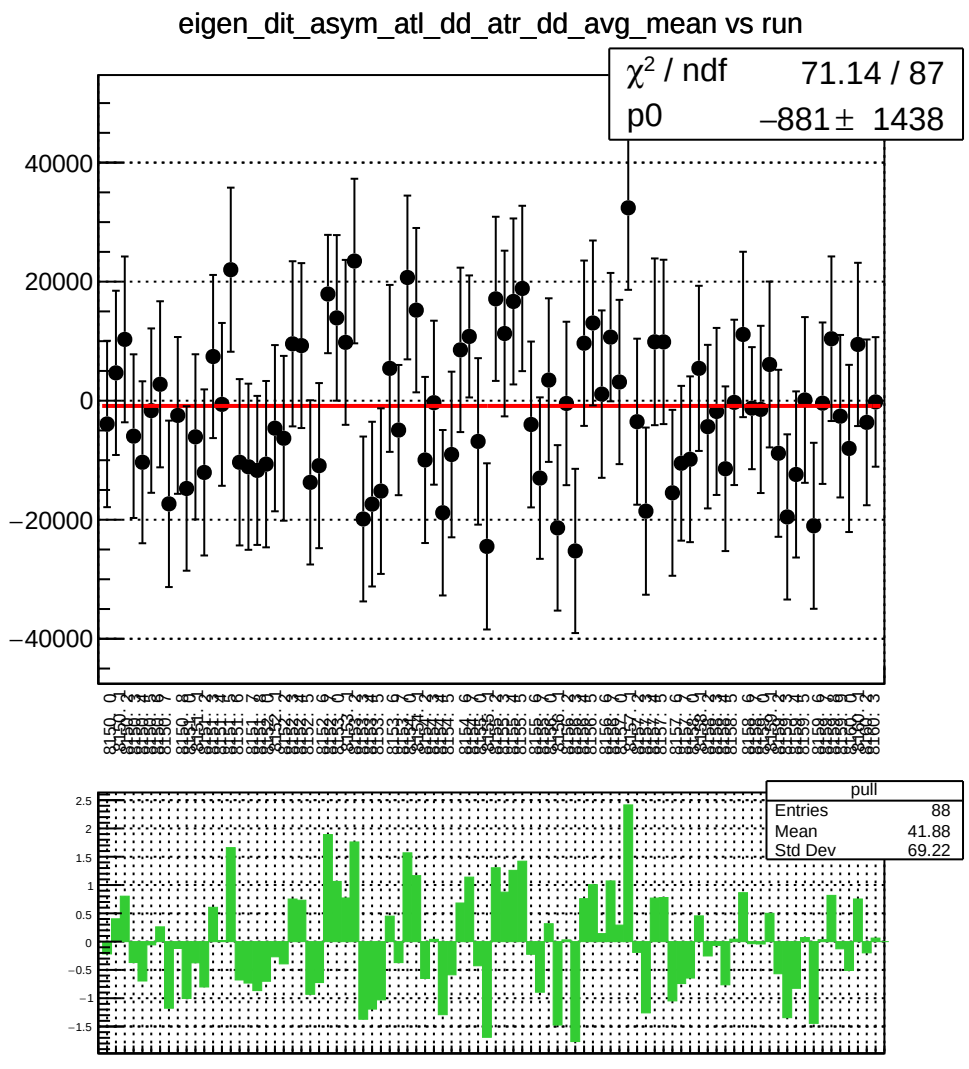

pull1D
Entries 88
Mean −0.01493
Std Dev 0.899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

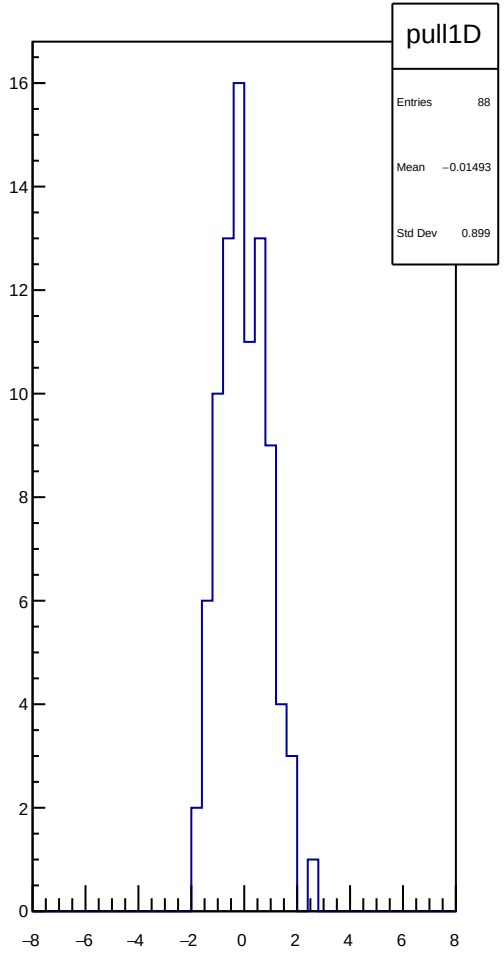

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 83.52 / 87
p0 1317 ± 1.017
1350
1340
1330
1320
1310
1300
1290
1280

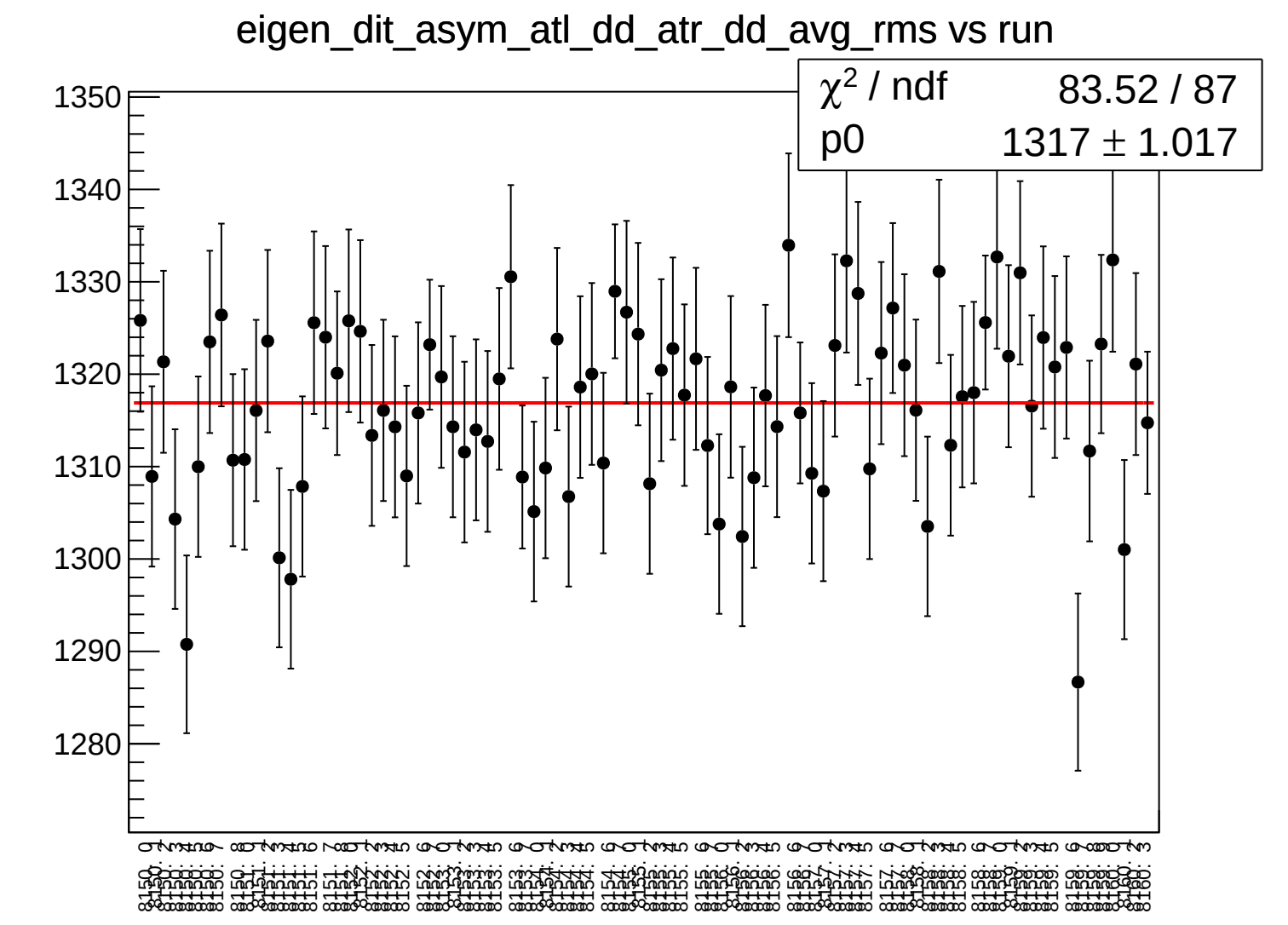

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 87
p0 7840 ± 5216
pull
Entries 88
Mean −4104
Std Dev 0

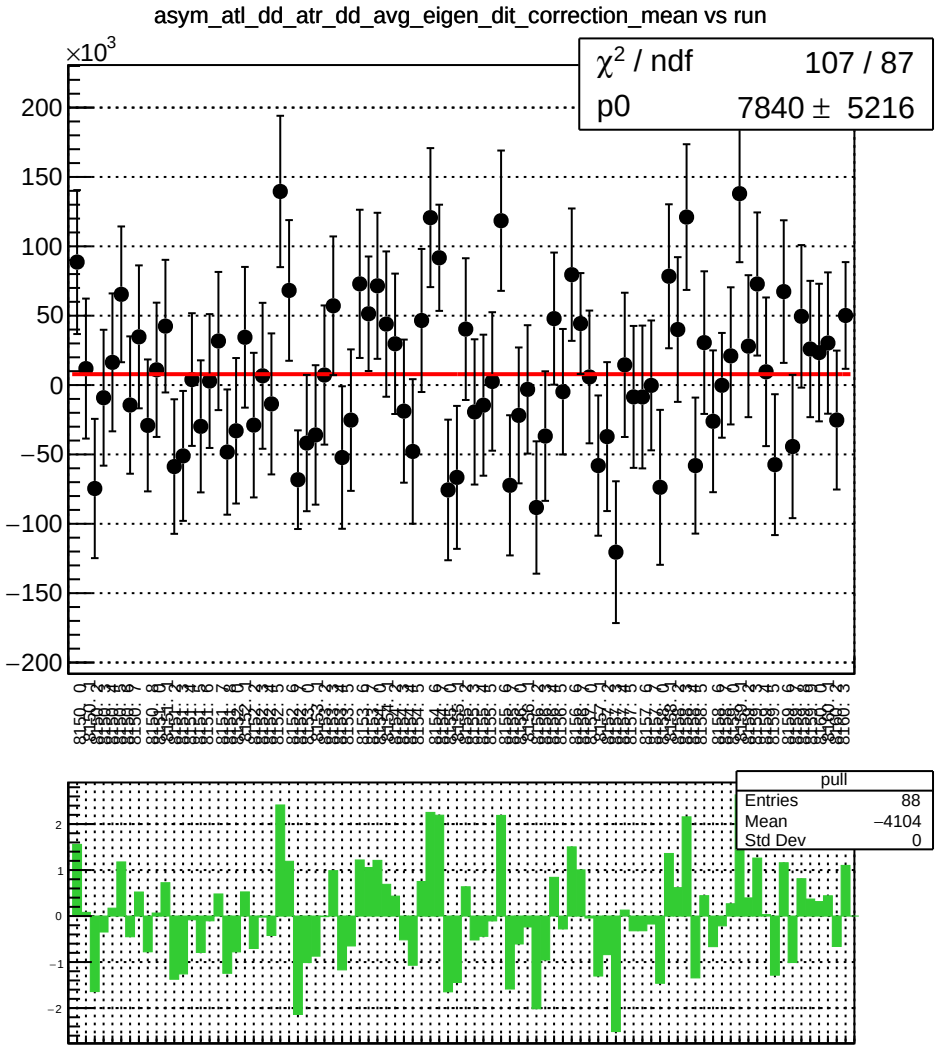

pull1D
Entries 88
Mean −0.0005976
Std Dev 1.103

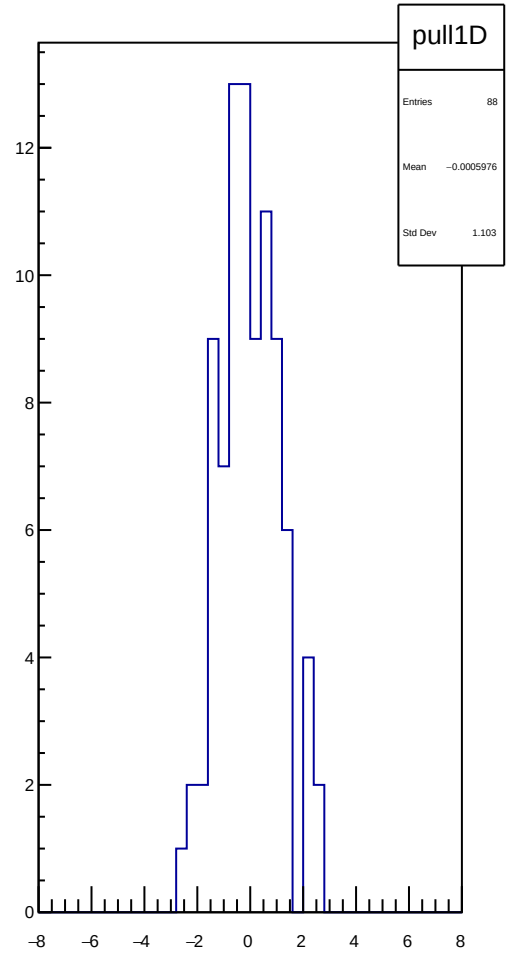

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 2352 / 87
p0 4772 ± 3.688
5400
5200
5000
4800
4600
4400
4200

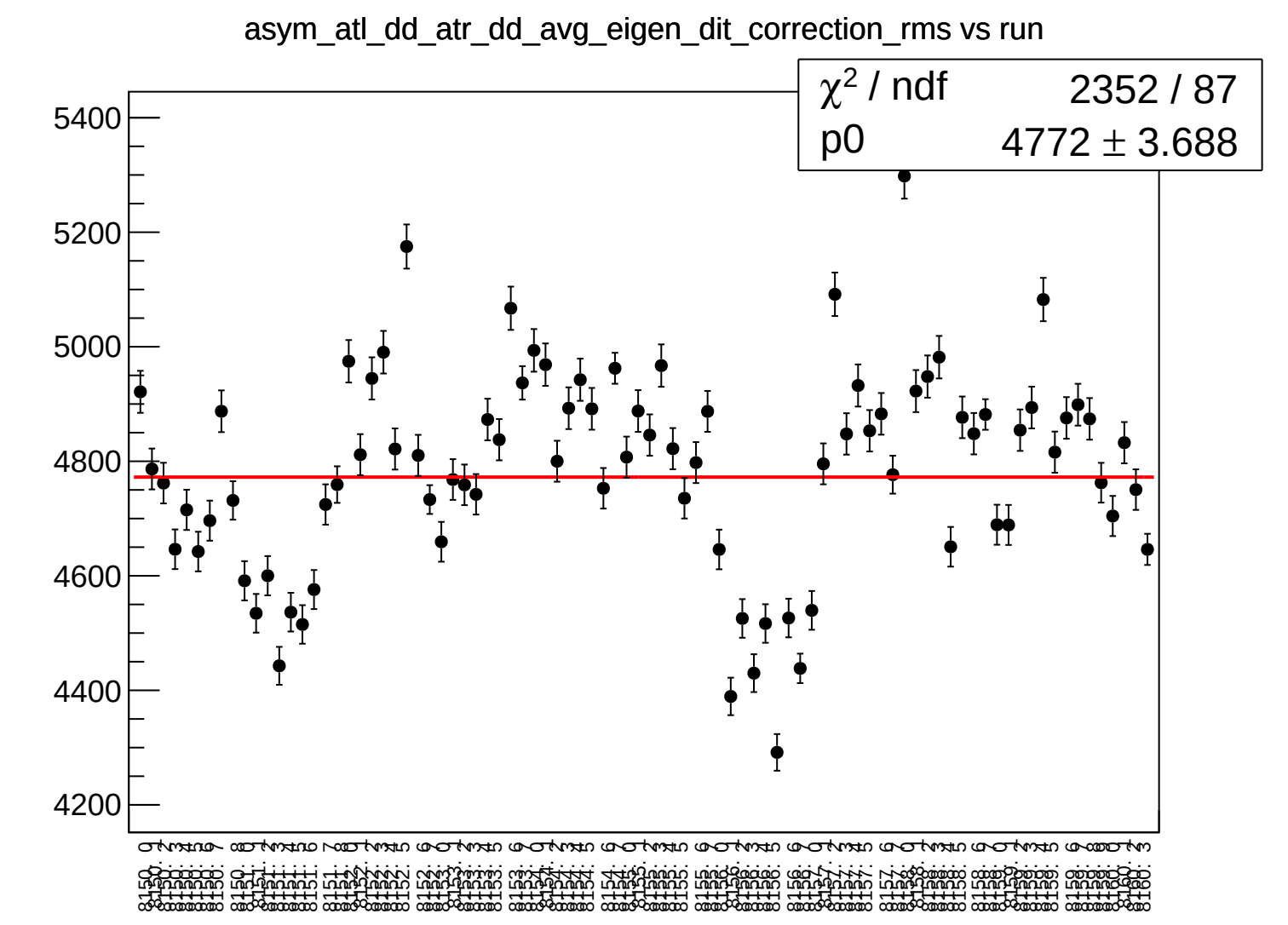

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 71.14 / 87
p0 −881 ± 1438
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 41.88
Std Dev 69.22
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

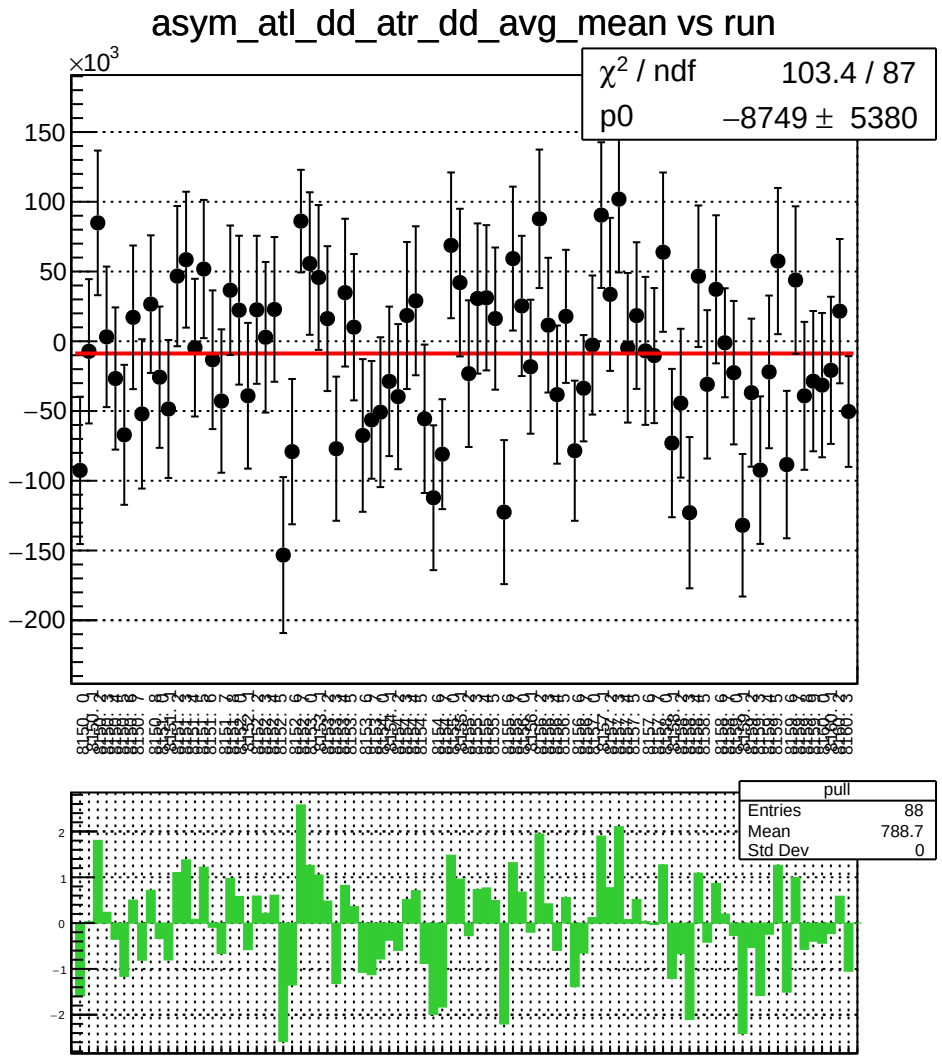

pull1D
Entries 88
Mean −0.01493
Std Dev 0.899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

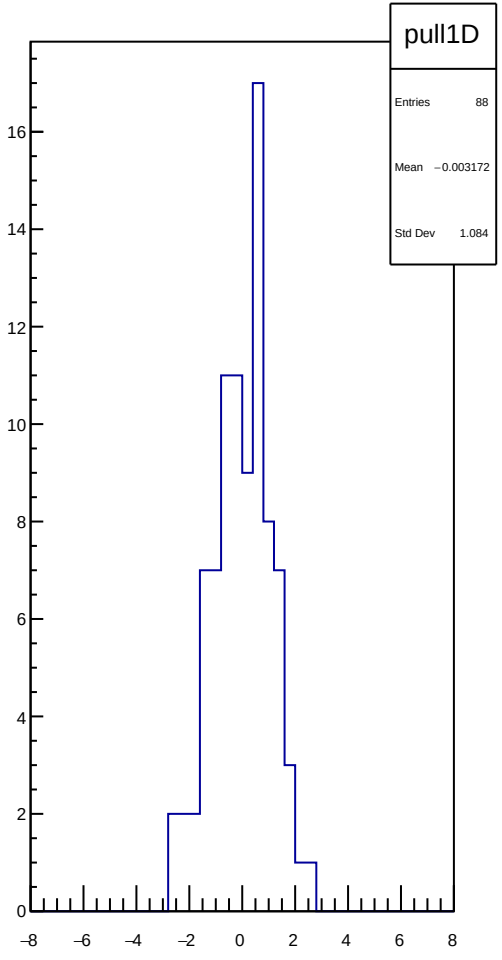

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 83.52 / 87
p0 1317 ± 1.017
1350
1340
1330
1320
1310
1300
1290
1280

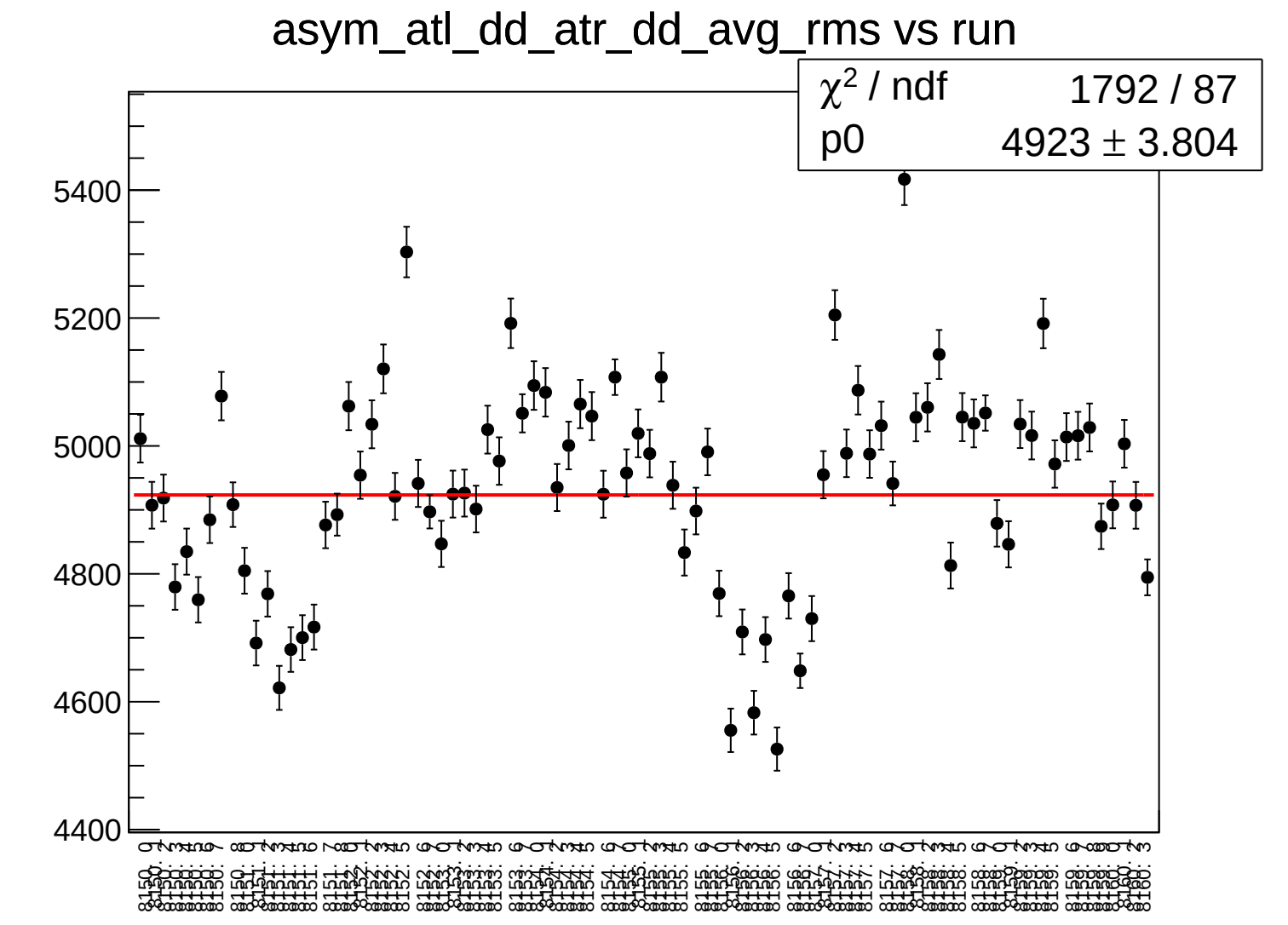

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 87
p0 7840 ± 5216
pull
Entries 88
Mean −4104
Std Dev 0

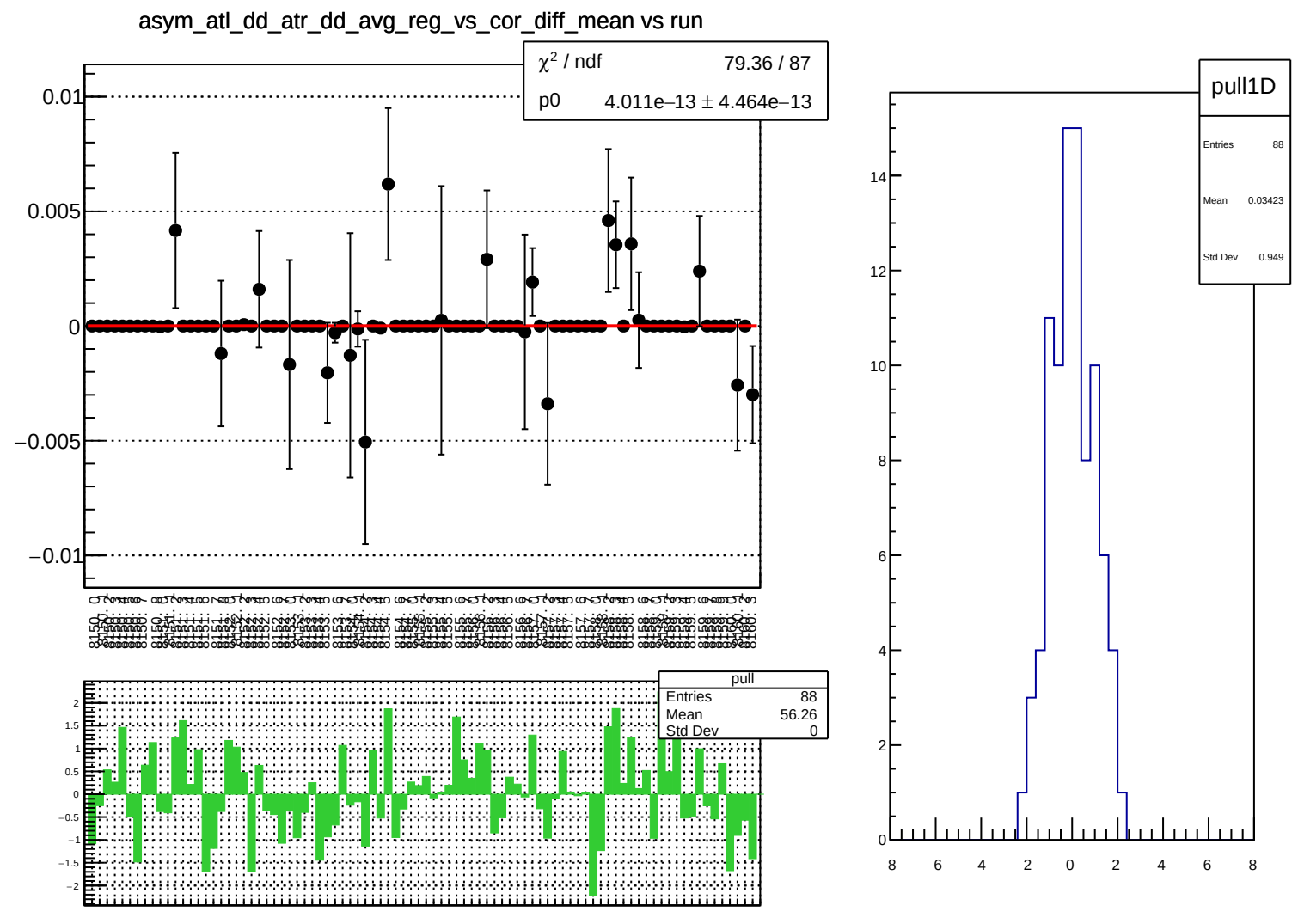

pull1D
Entries 88
Mean −0.0005976
Std Dev 1.103

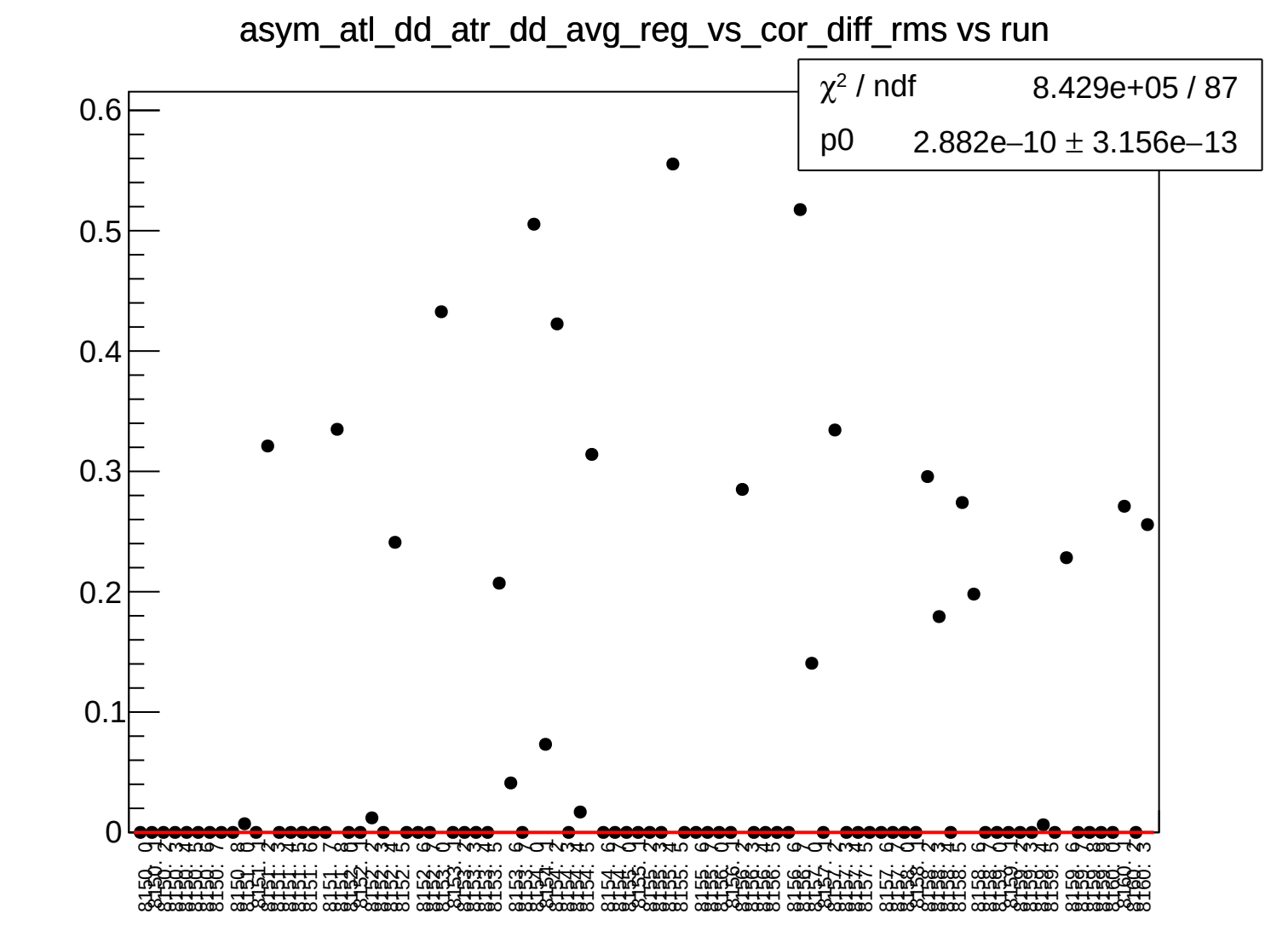

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2352 / 87
p0 4772 ± 3.688
5400
5200
5000
4800
4600
4400
4200

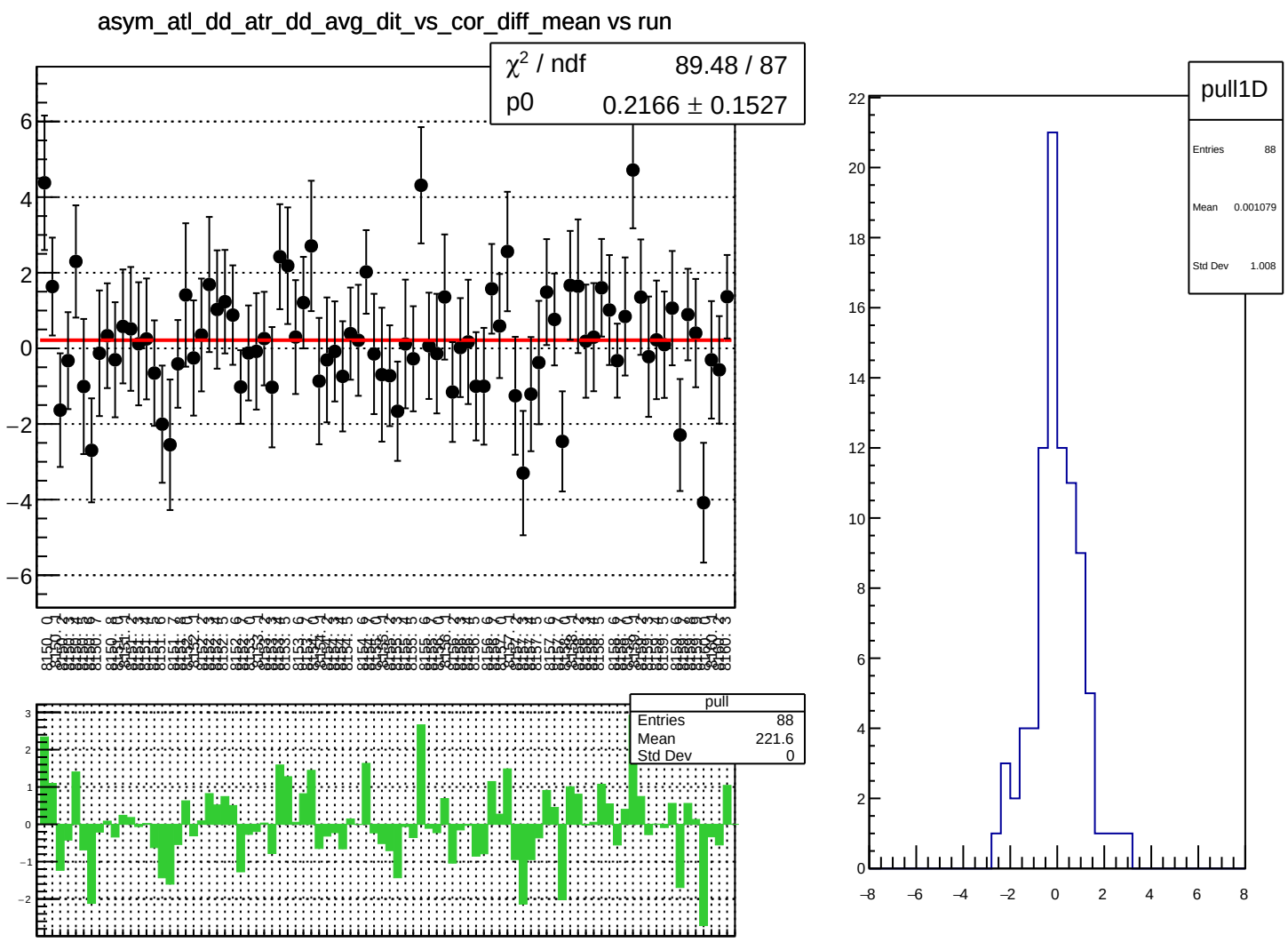

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 103.4 / 87
p0 −8749 ± 5380
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 788.7
Std Dev 0
2
1
0
−1
−2

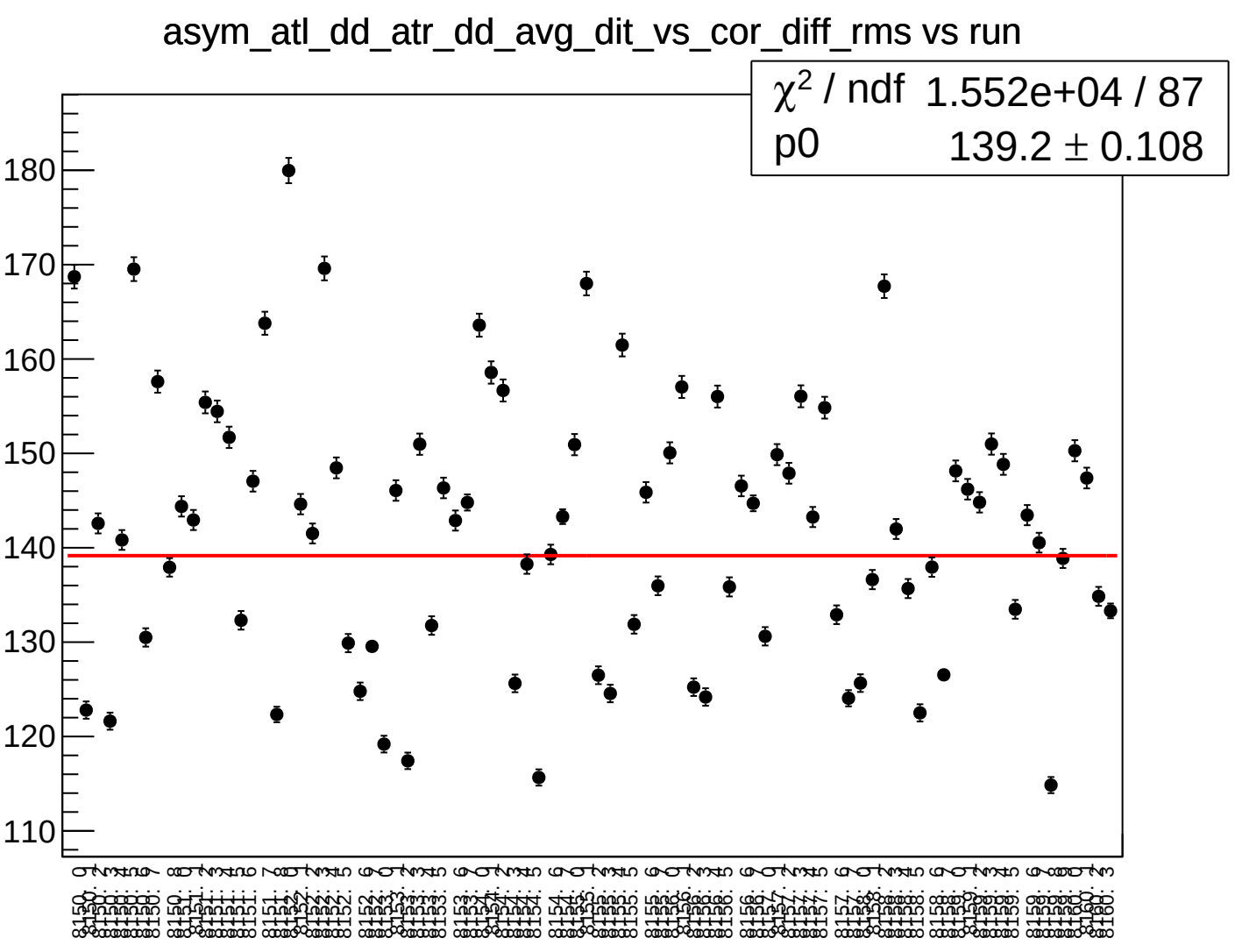

pull1D
Entries 88
Mean −0.003172
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

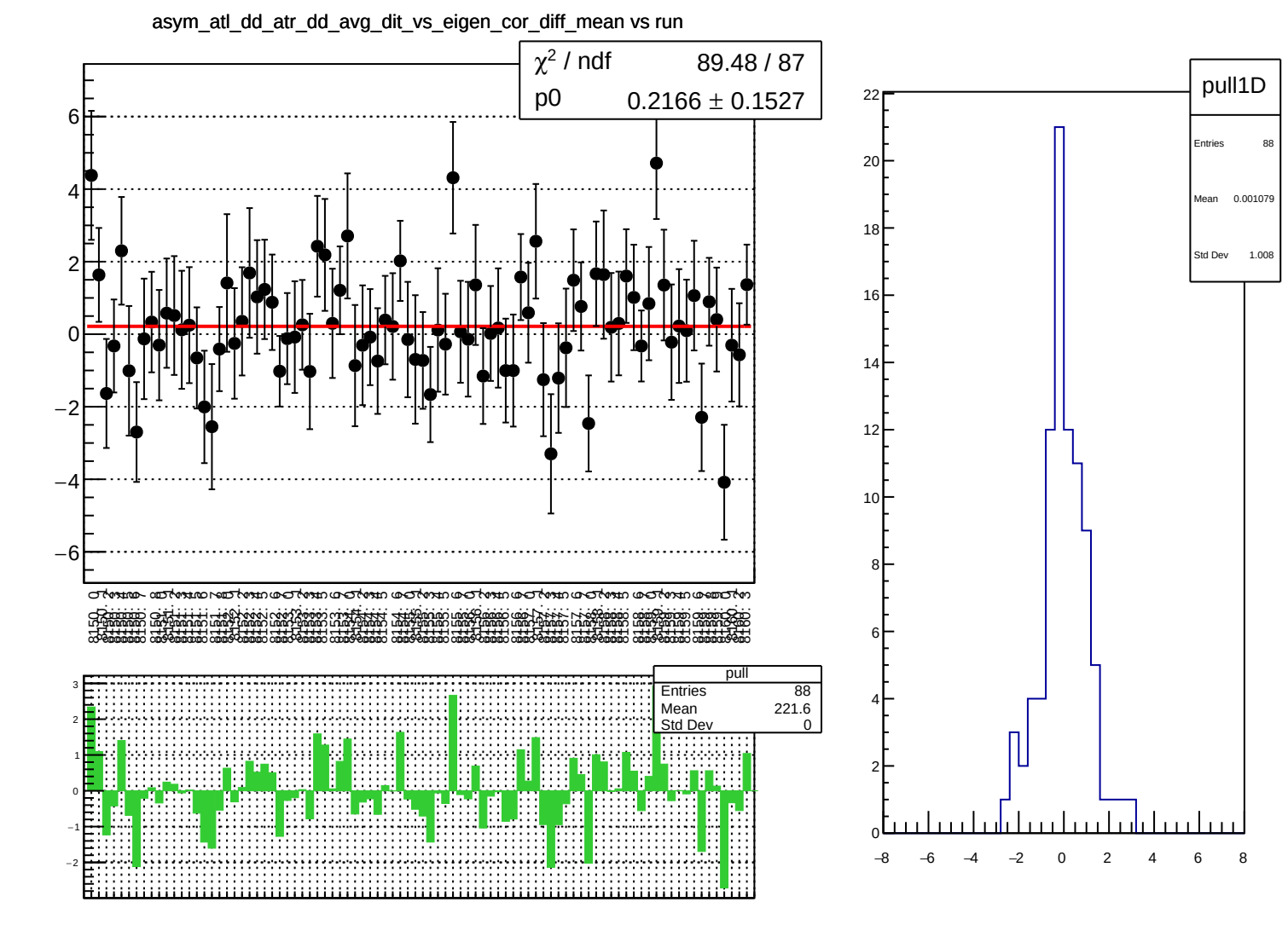

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1792 / 87
p0 4923 ± 3.804
5400
5200
5000
4800
4600
4400

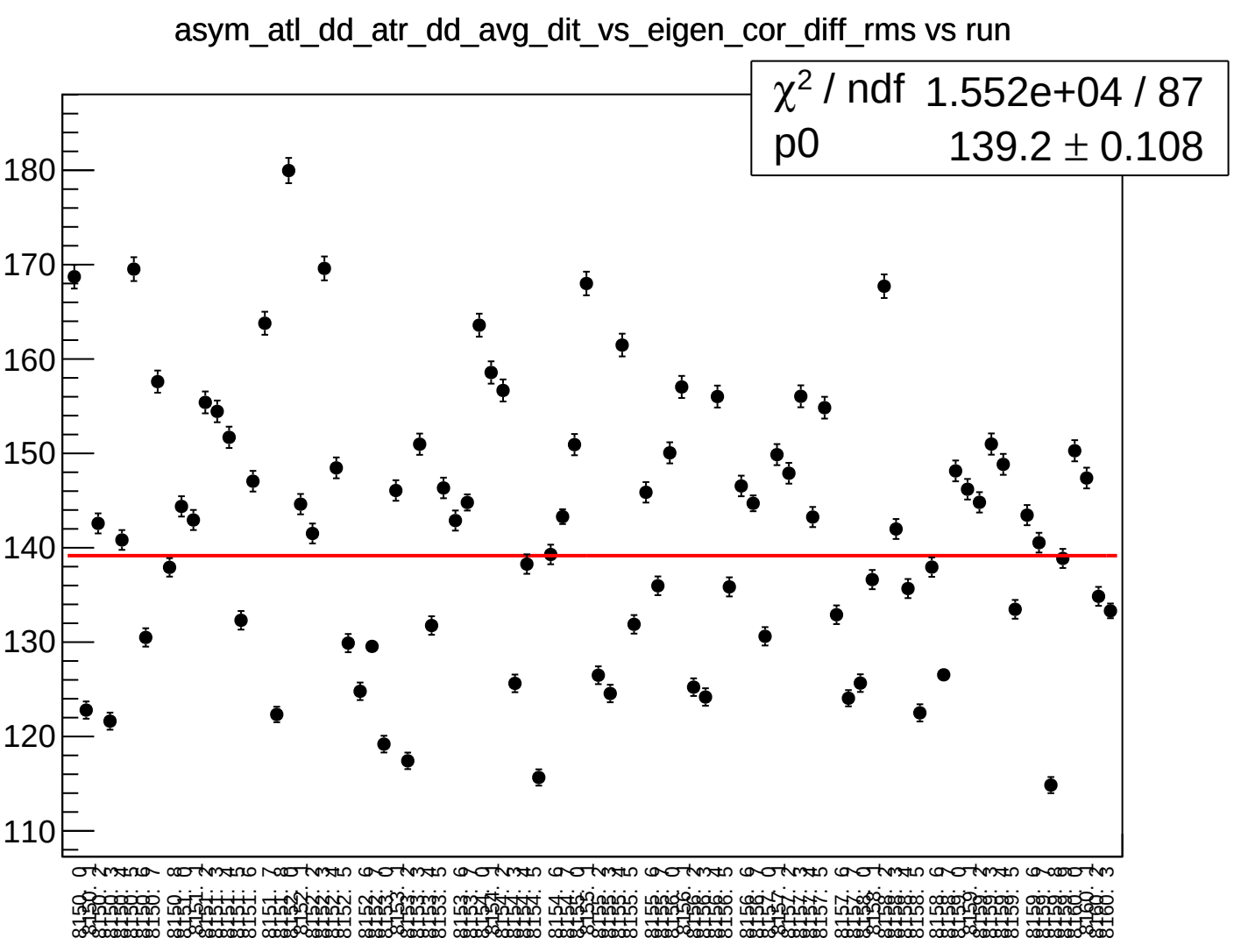

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.36 / 87
p0 4.011e−13 ± 4.464e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 56.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.03423
Std Dev 0.949
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

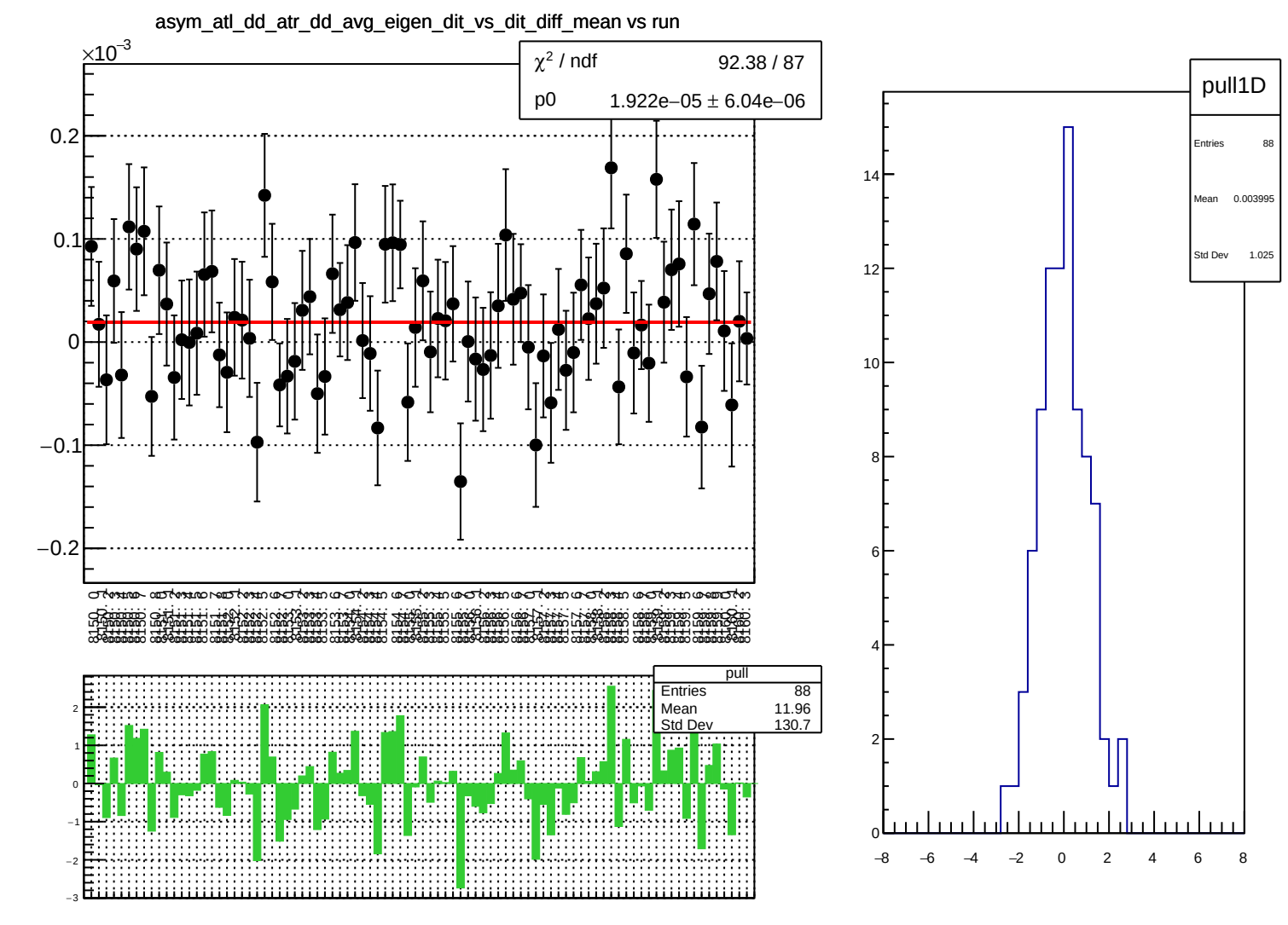

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.429e+05 / 87
p0 2.882e−10 ± 3.156e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

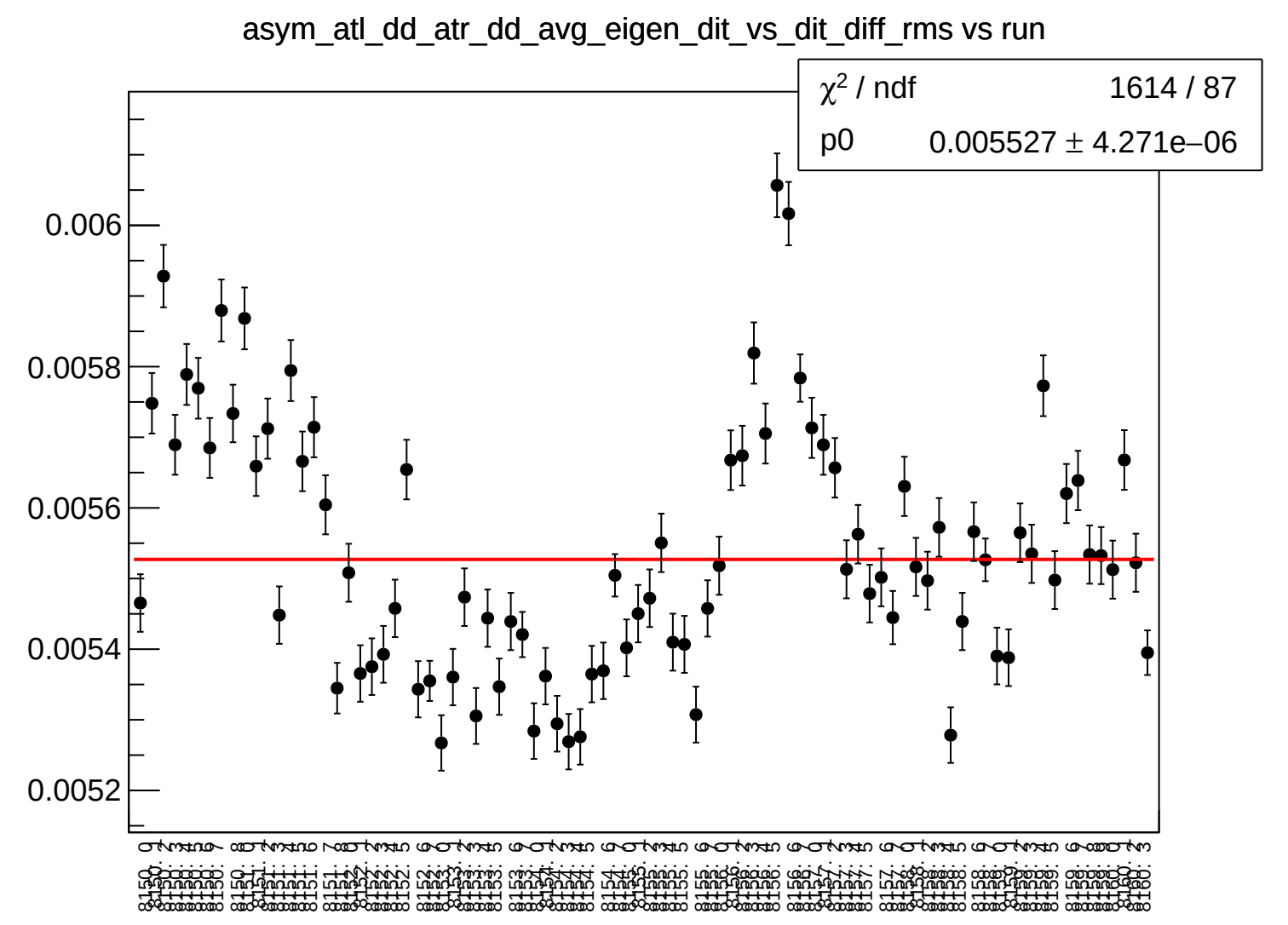

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.48 / 87
p0 0.2166 ± 0.1527
pull
Entries 88
Mean 221.6
Std Dev 0
pull1D
Entries 88
Mean 0.001079
Std Dev 1.008


asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.552e+04 / 87
p0 139.2 ± 0.108
180
170
160
150
140
130
120
110

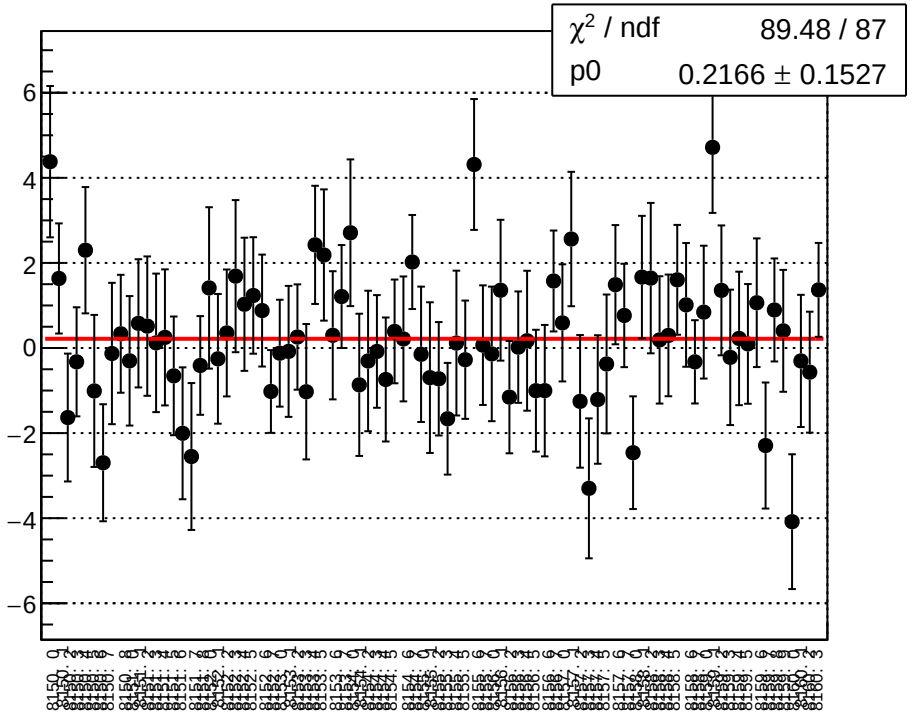

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.48 / 87
p0 0.2166 ± 0.1527
pull
Entries 88
Mean 221.6
Std Dev 0
pull1D
Entries 88
Mean 0.001079
Std Dev 1.008

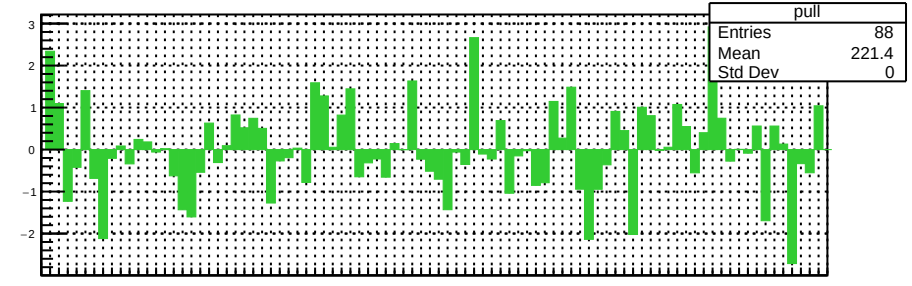

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.552e+04 / 87
p0 139.2 ± 0.108
180
170
160
150
140
130
120
110

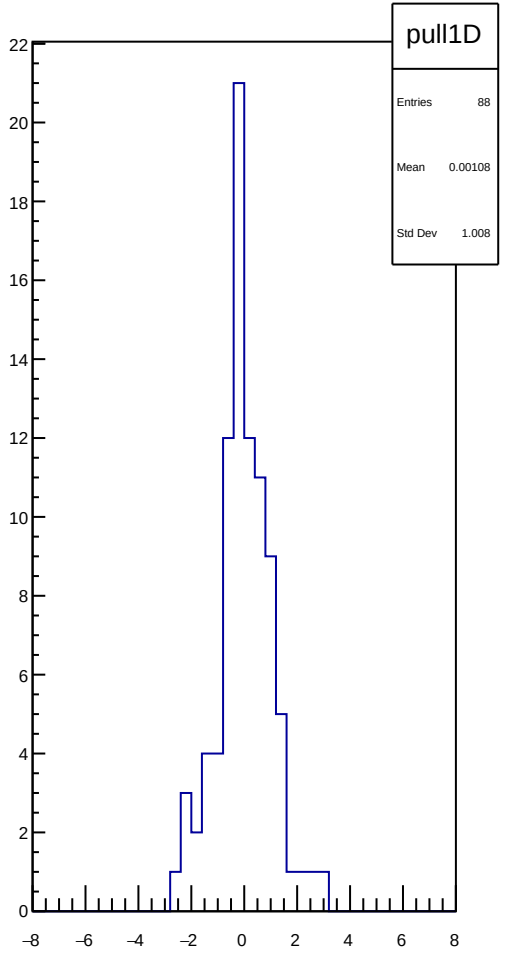

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.38 / 87
p0 1.922e−05 ± 6.04e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean 11.96
Std Dev 130.7
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.003995
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

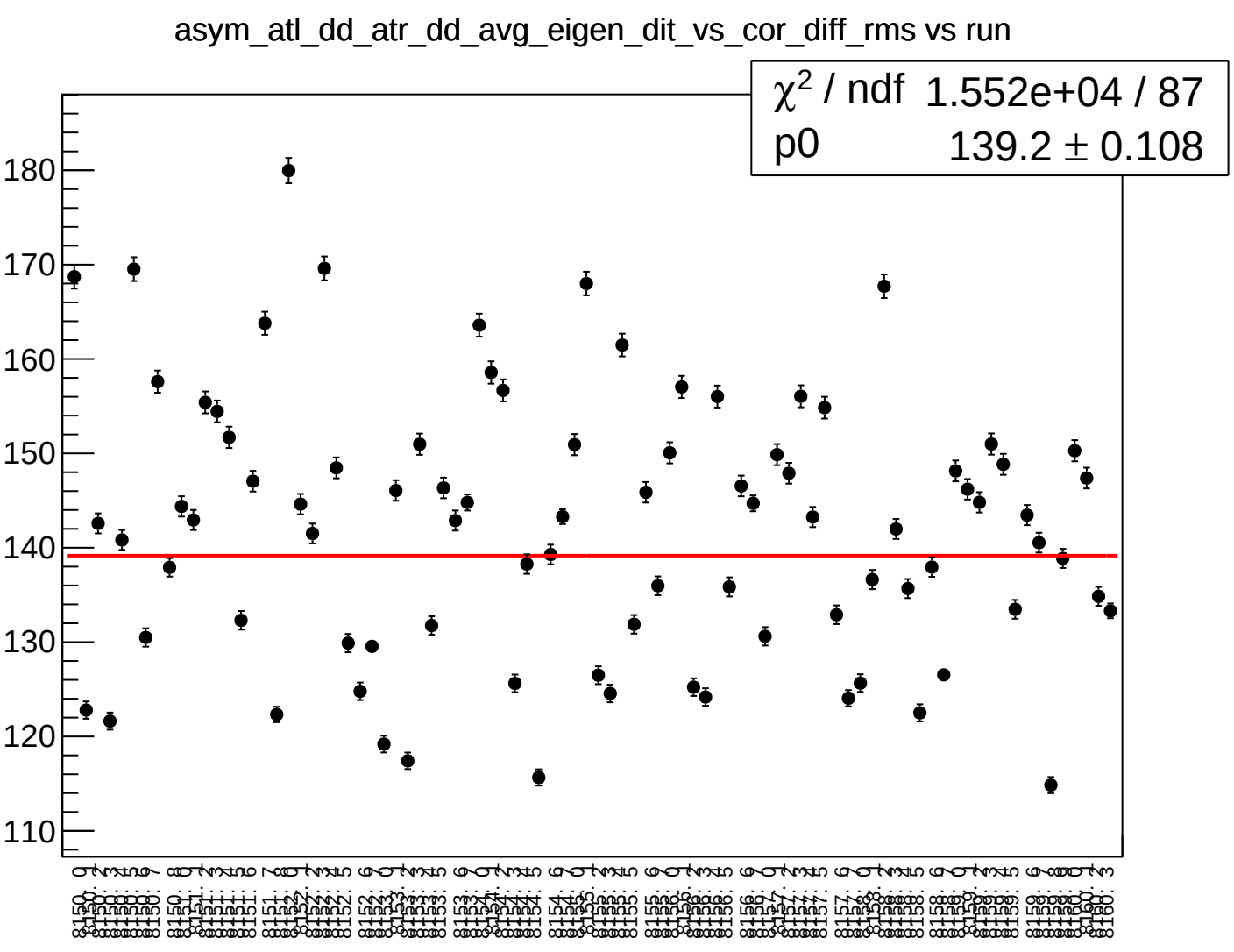

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1614 / 87
p0 0.005527 ± 4.271e−06
0.006
0.0058
0.0056
0.0054
0.0052

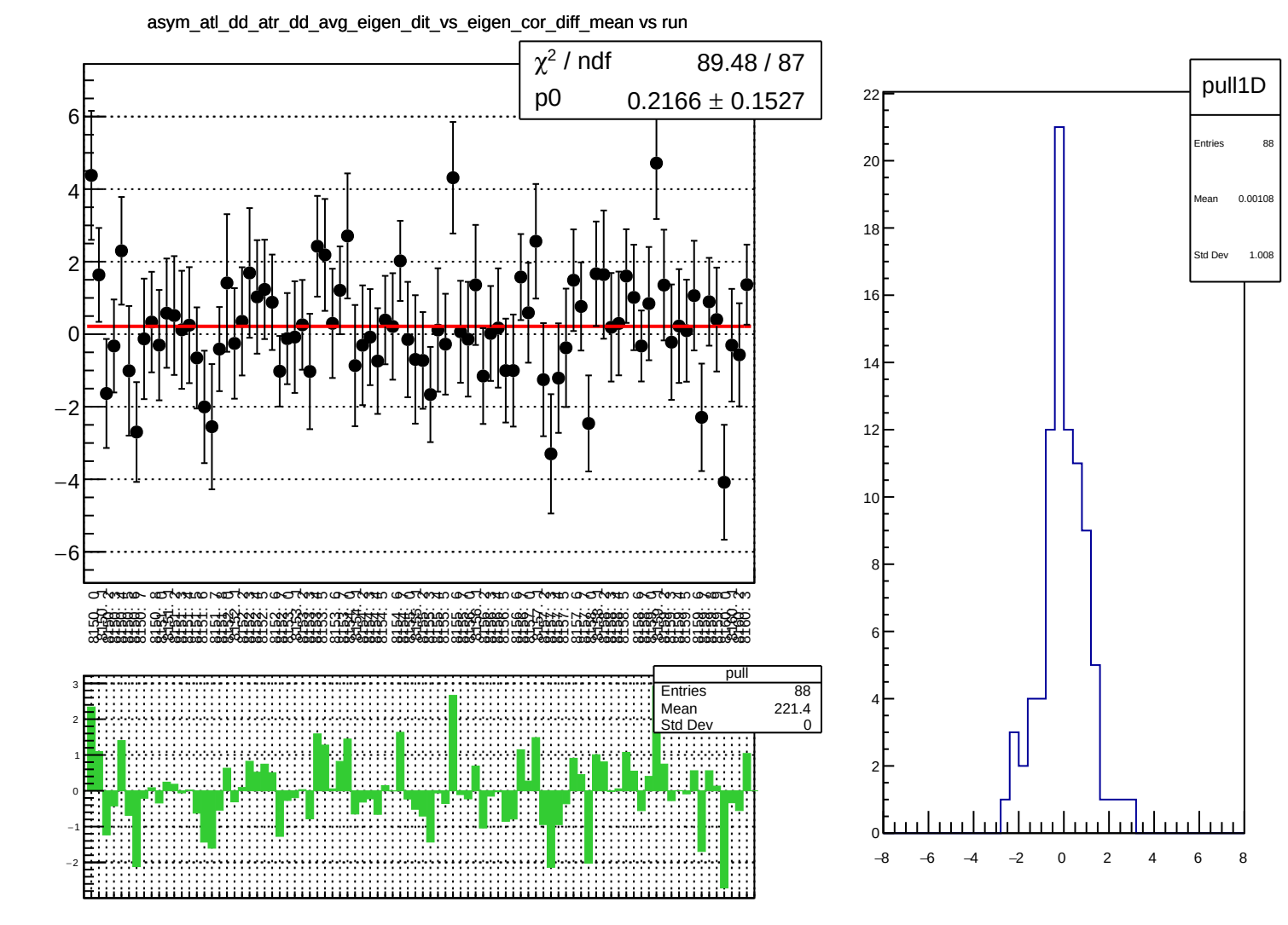
asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run

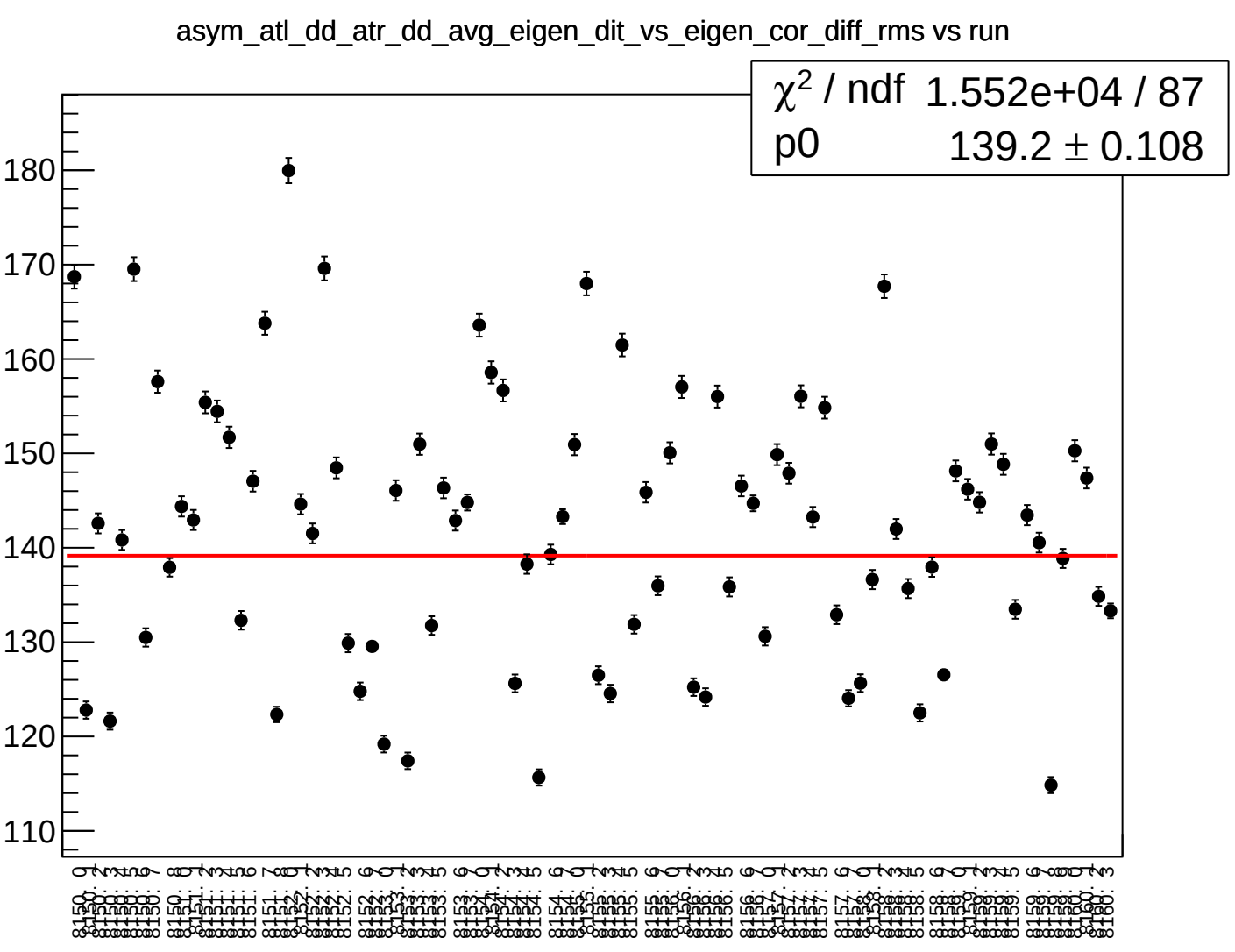


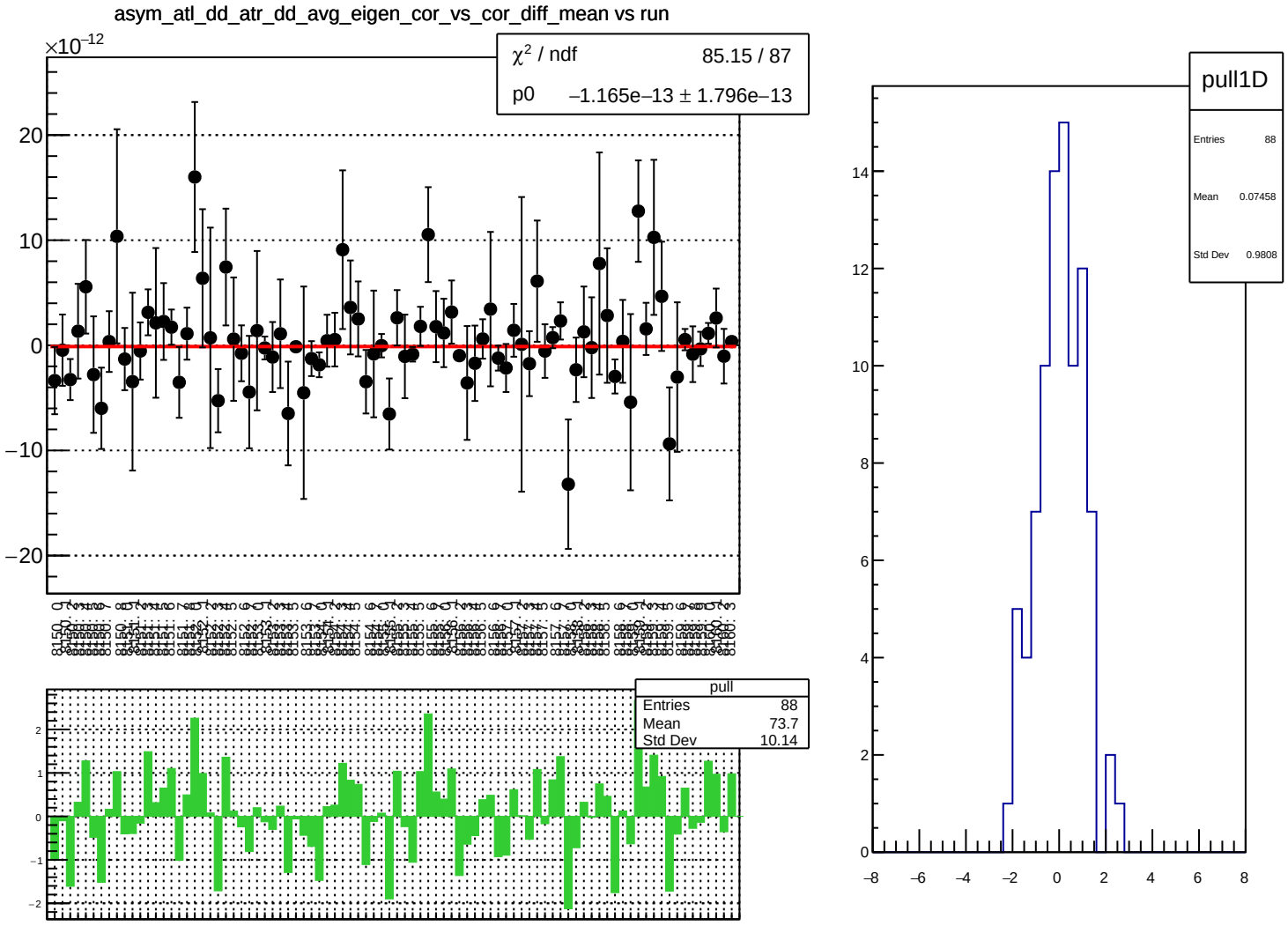


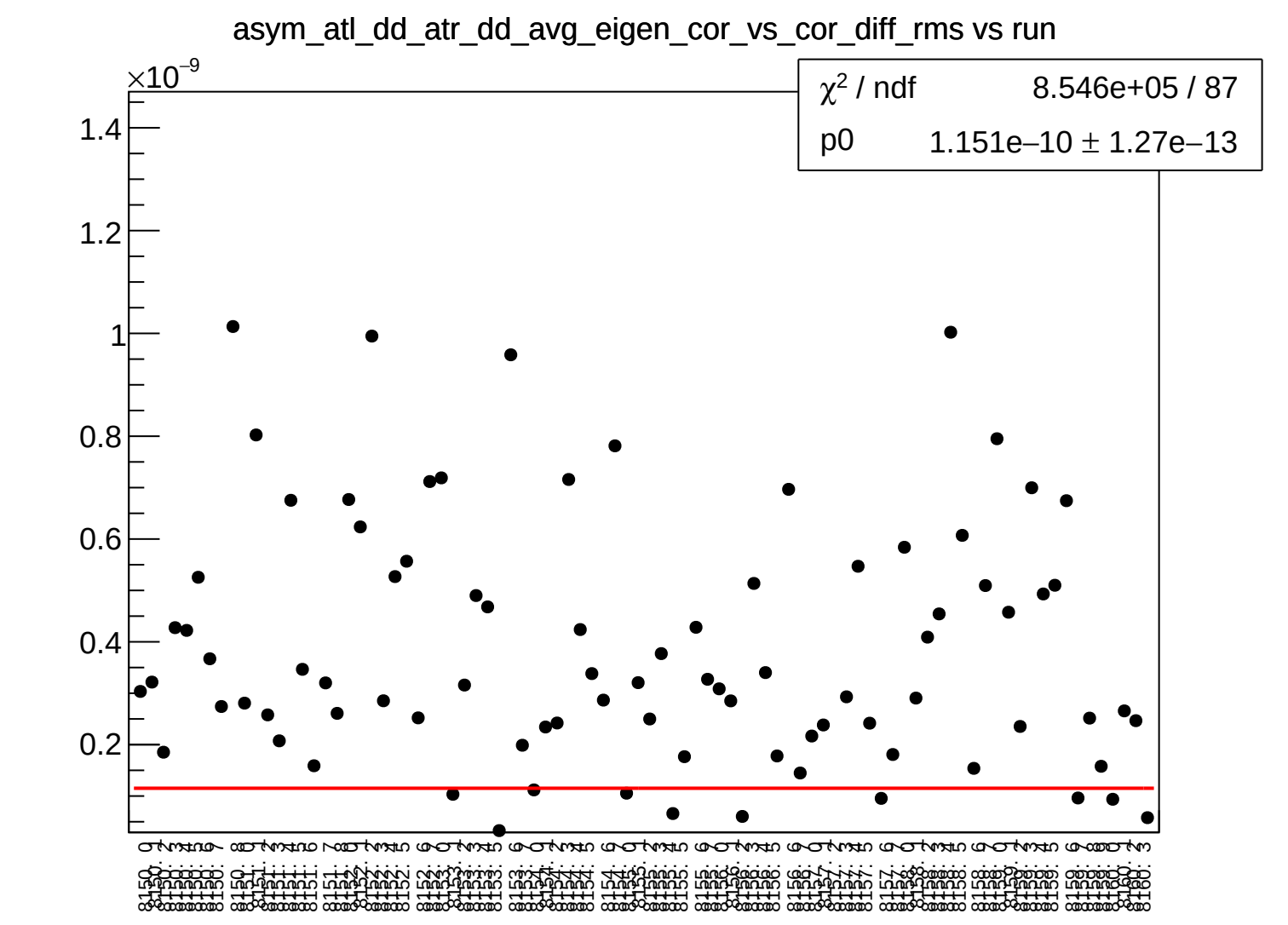


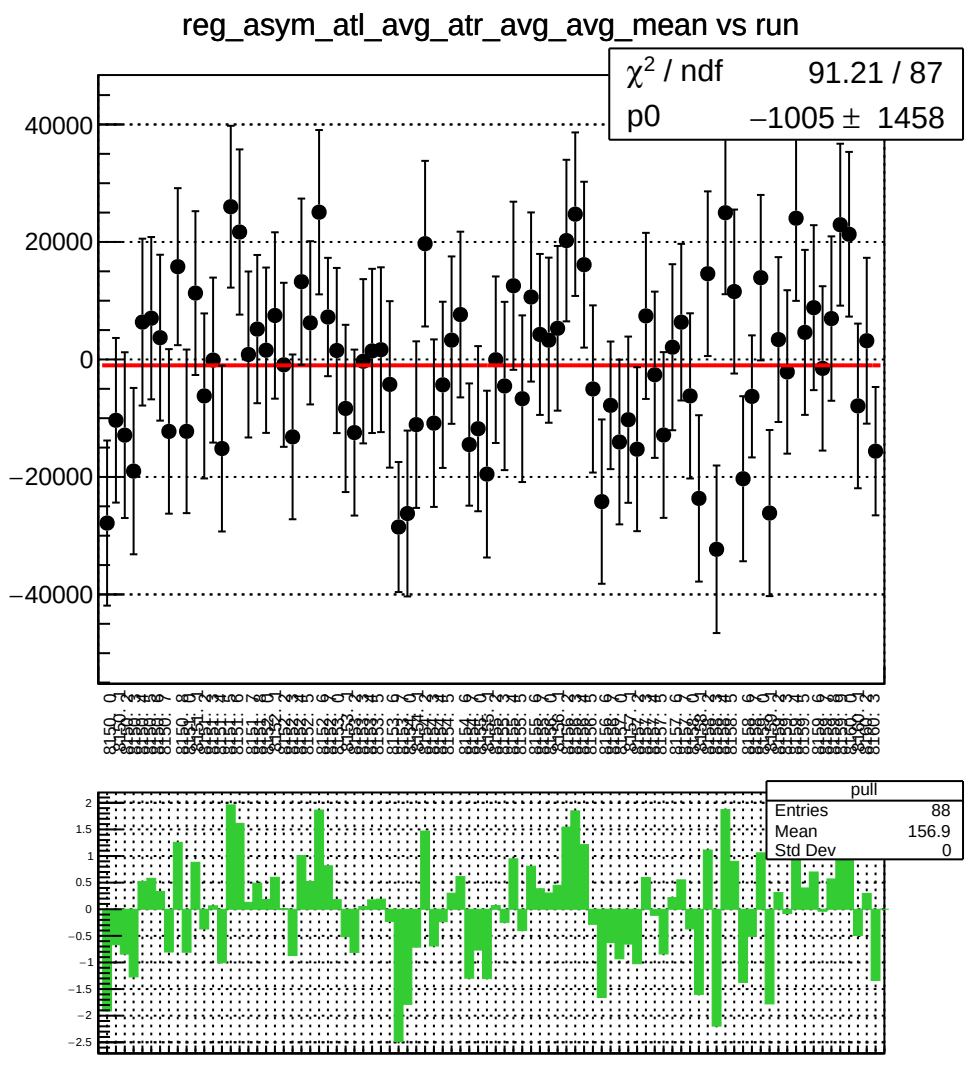

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.552e+04 / 87
p0 139.2 ± 0.108
180
170
160
150
140
130
120
110

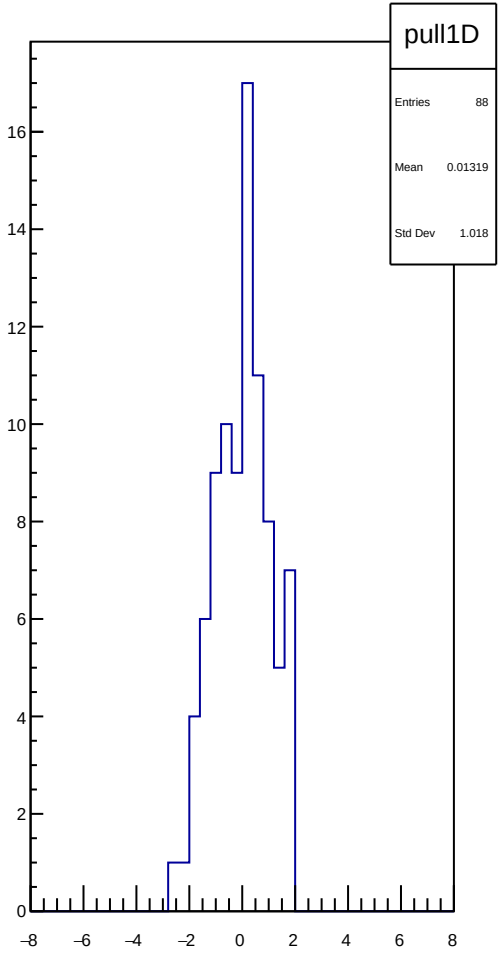

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.48 / 87
p0 0.2166 ± 0.1527
pull
Entries 88
Mean 221.4
Std Dev 0
pull1D
Entries 88
Mean 0.00108
Std Dev 1.008

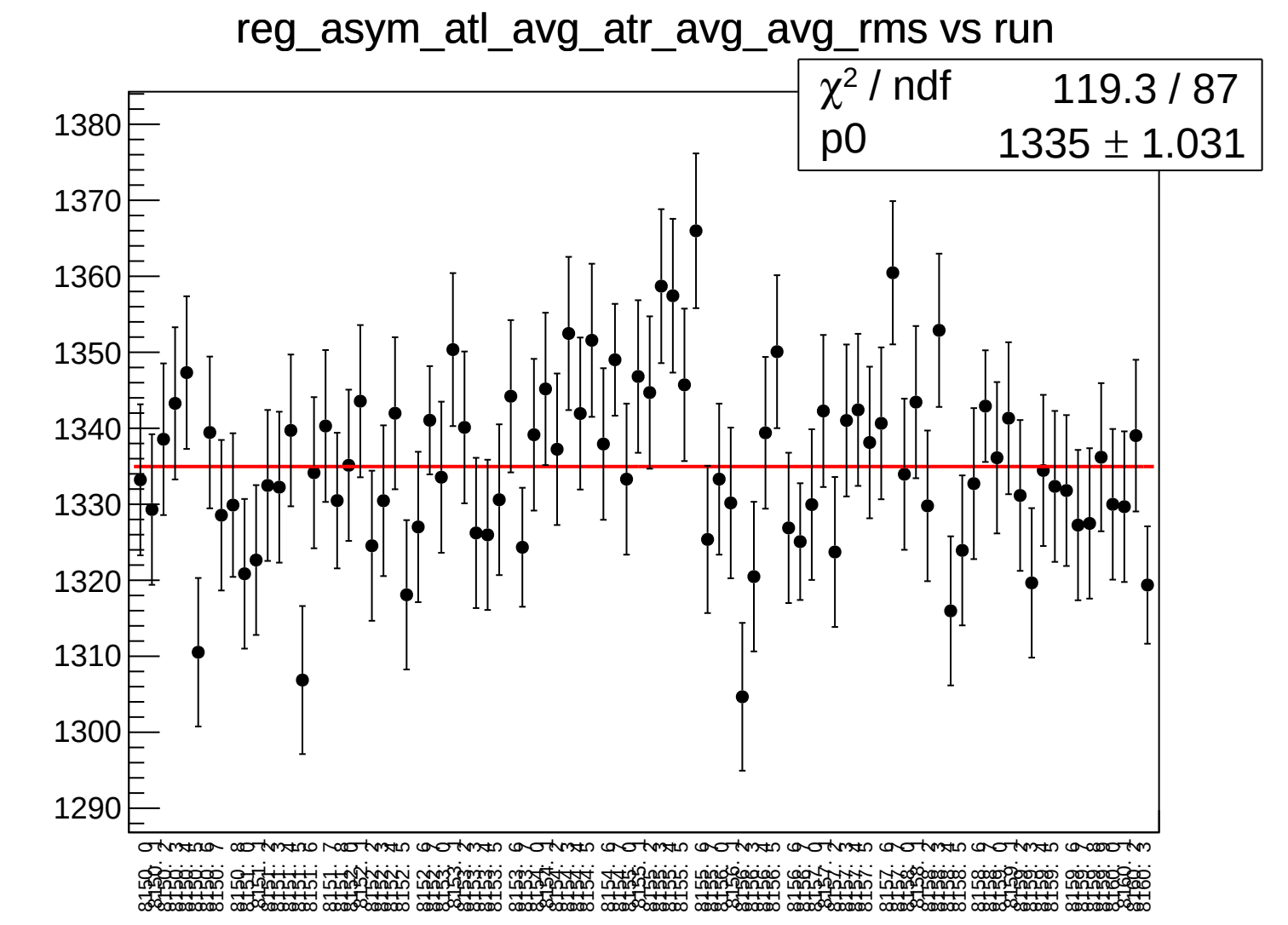

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.552e+04 / 87
p0 139.2 ± 0.108
180
170
160
150
140
130
120
110

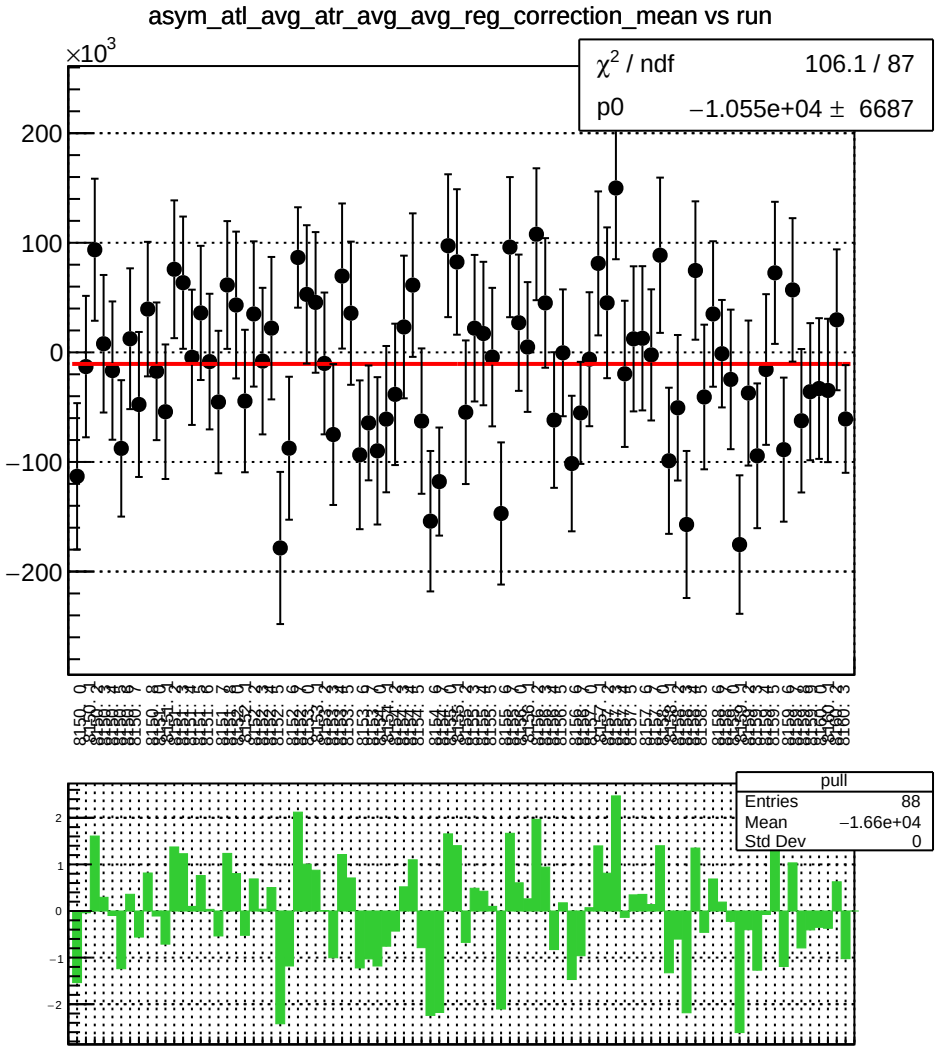

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.15 / 87
p0 −1.165e−13 ± 1.796e−13
pull
Entries 88
Mean 73.7
Std Dev 10.14
pull1D
Entries 88
Mean 0.07458
Std Dev 0.9808

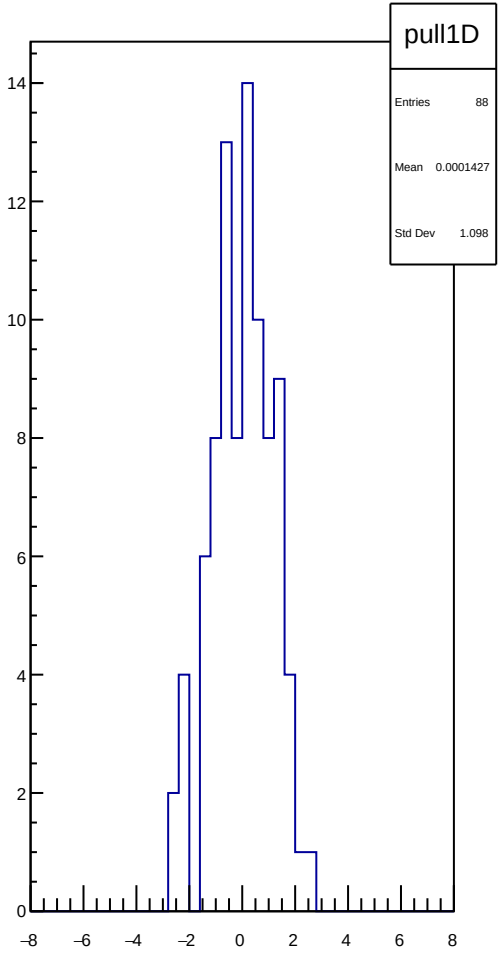

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.546e+05 / 87
p0 1.151e−10 ± 1.27e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

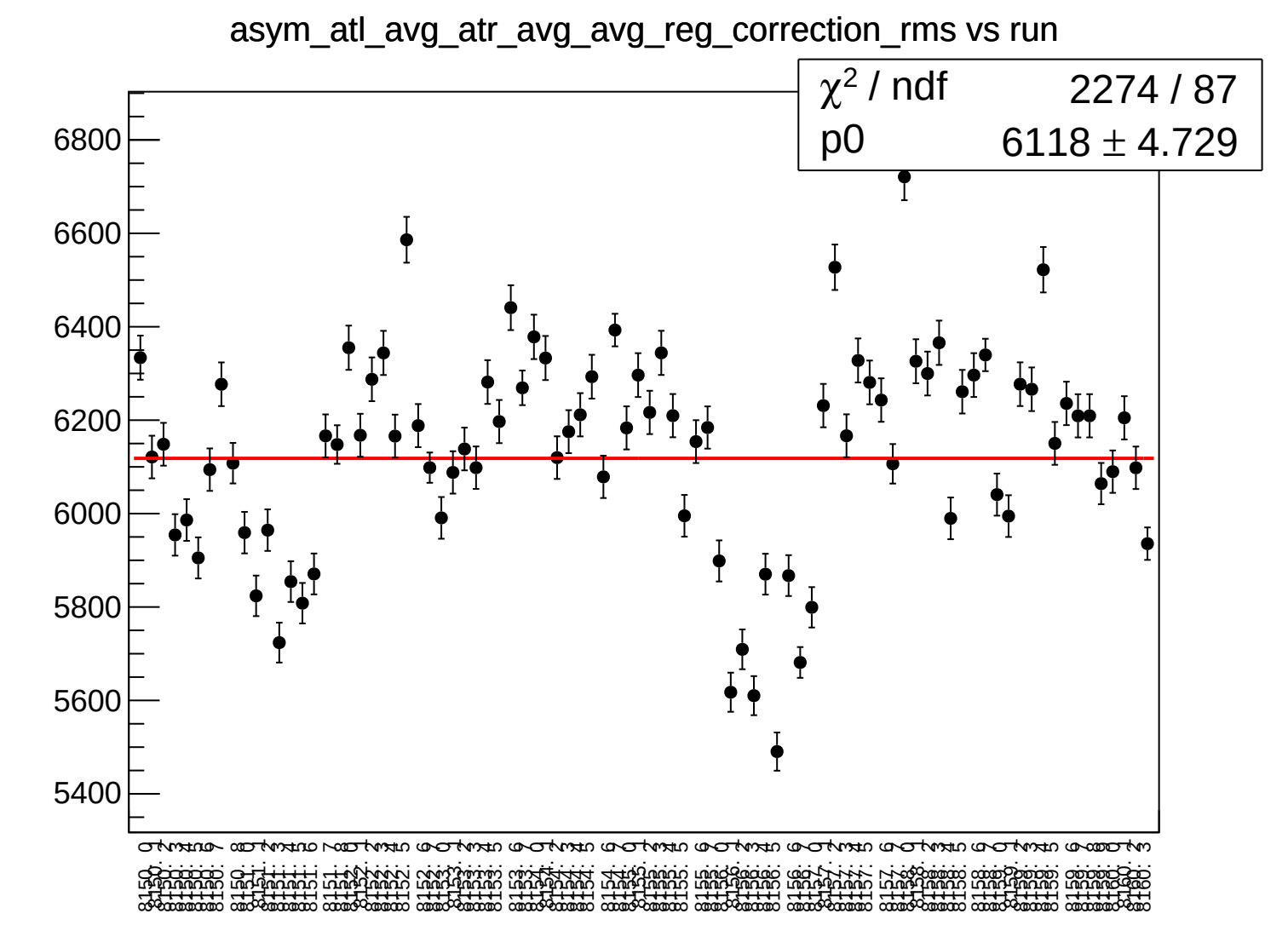

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 91.21 / 87
p0 −1005 ± 1458
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 156.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

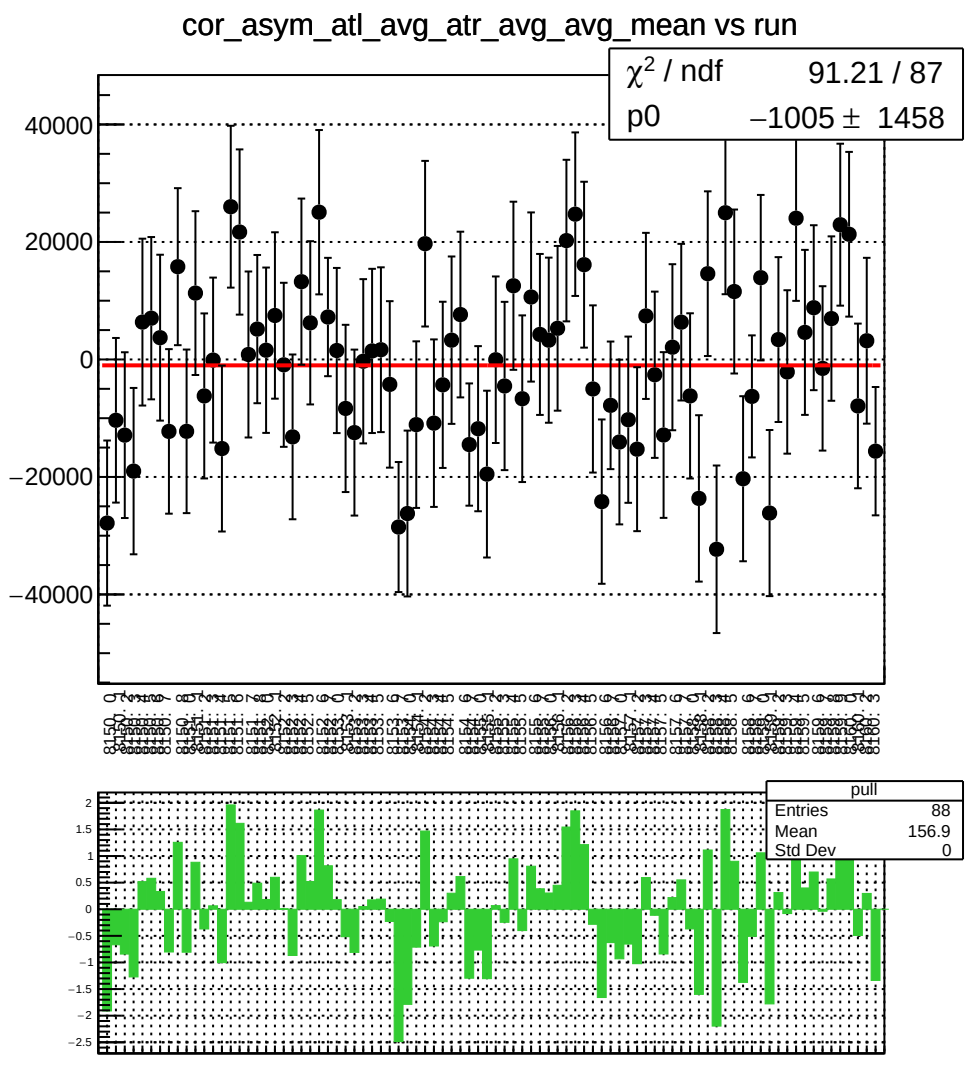

pull1D
Entries 88
Mean 0.01319
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

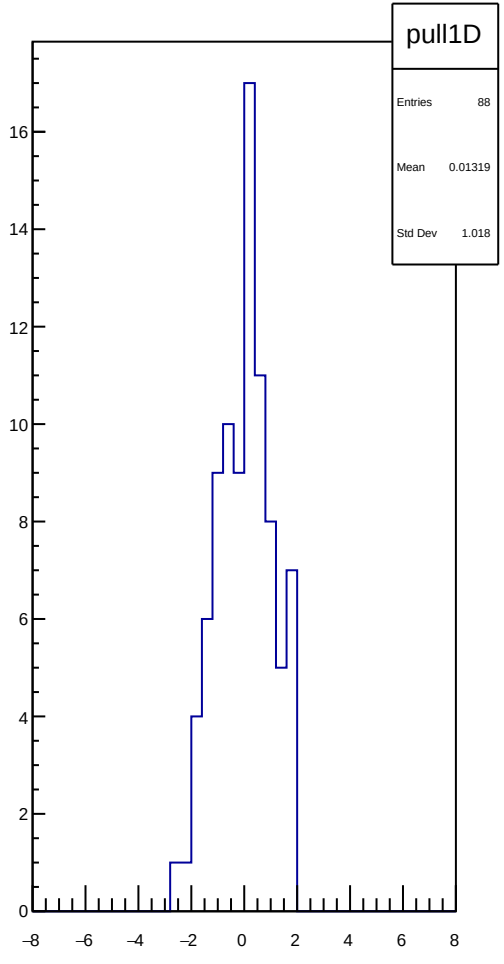

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 119.3 / 87
p0 1335 ± 1.031
1380
1370
1360
1350
1340
1330
1320
1310
1300
1290

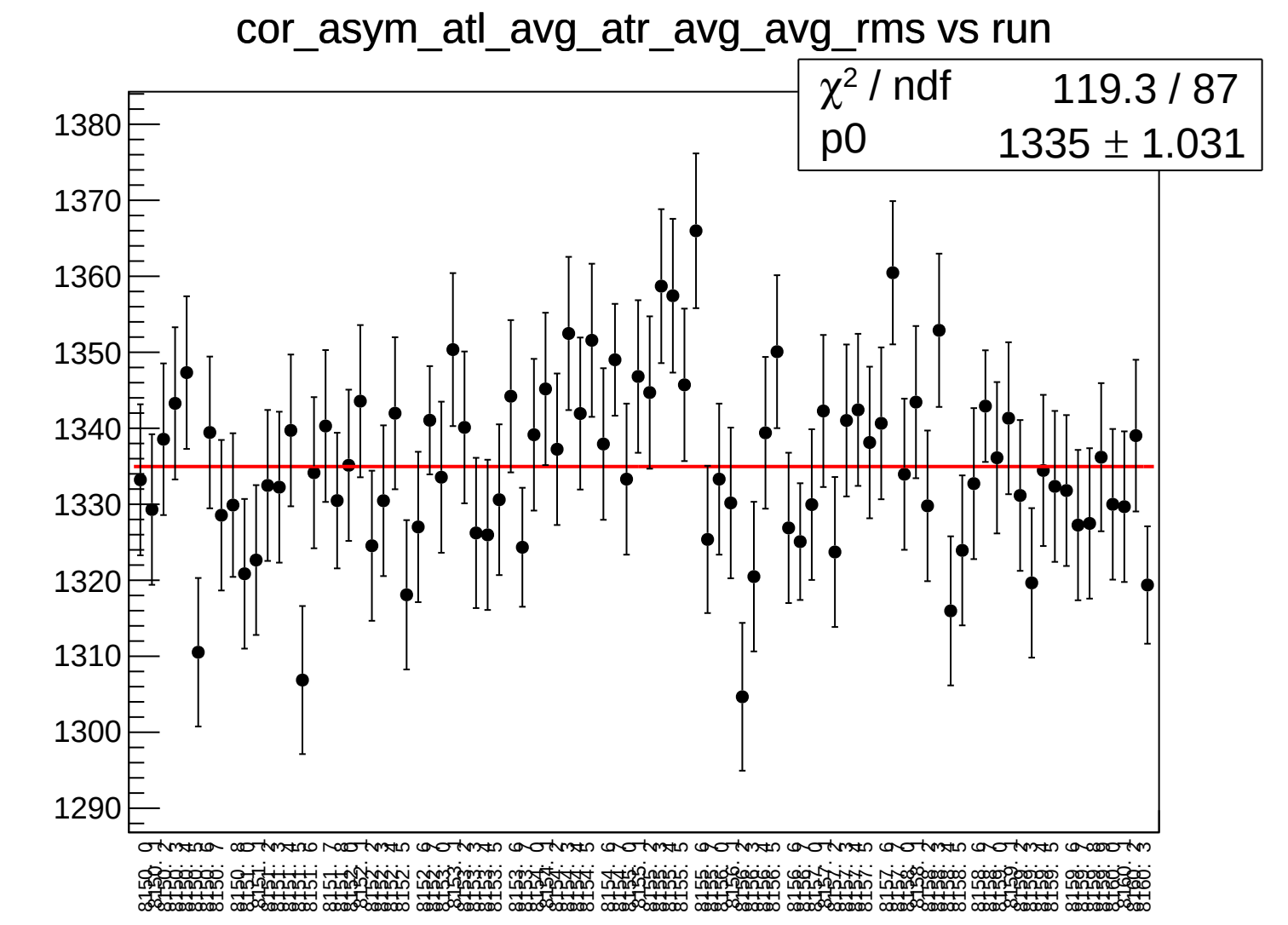

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 106.1 / 87
p0 −1.055e+04 ± 6687
200
100
0
−100
−200
pull
Entries 88
Mean −1.66e+04
Std Dev 0
2
1
0
−1
−2

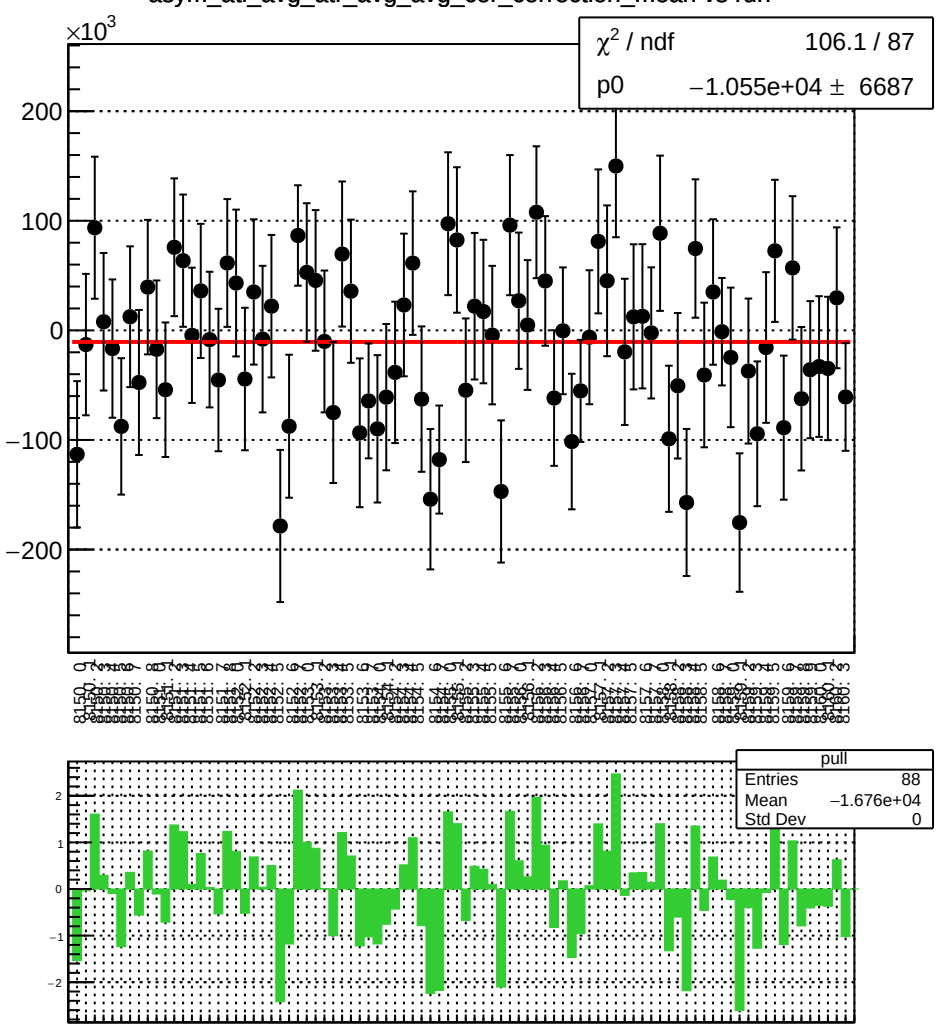

pull1D
Entries 88
Mean 0.0001427
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

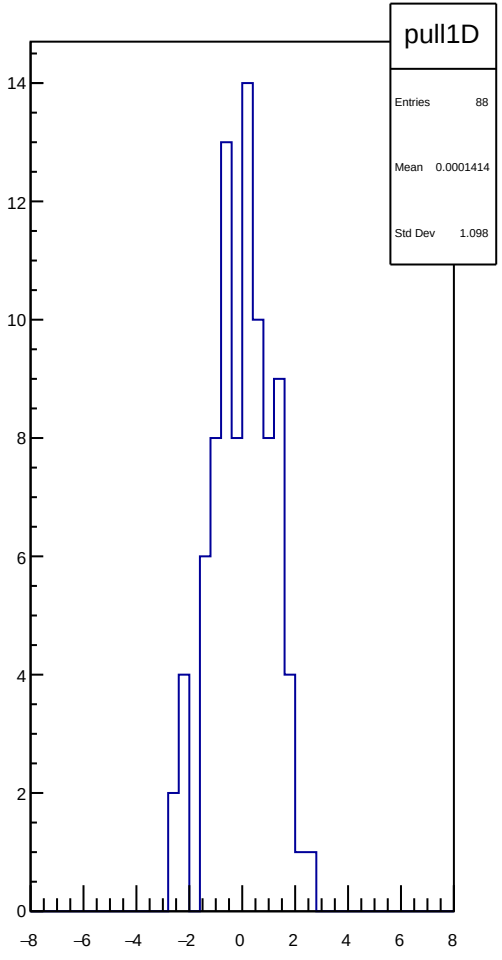

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 2274 / 87
p0 6118 ± 4.729
6800
6600
6400
6200
6000
5800
5600
5400

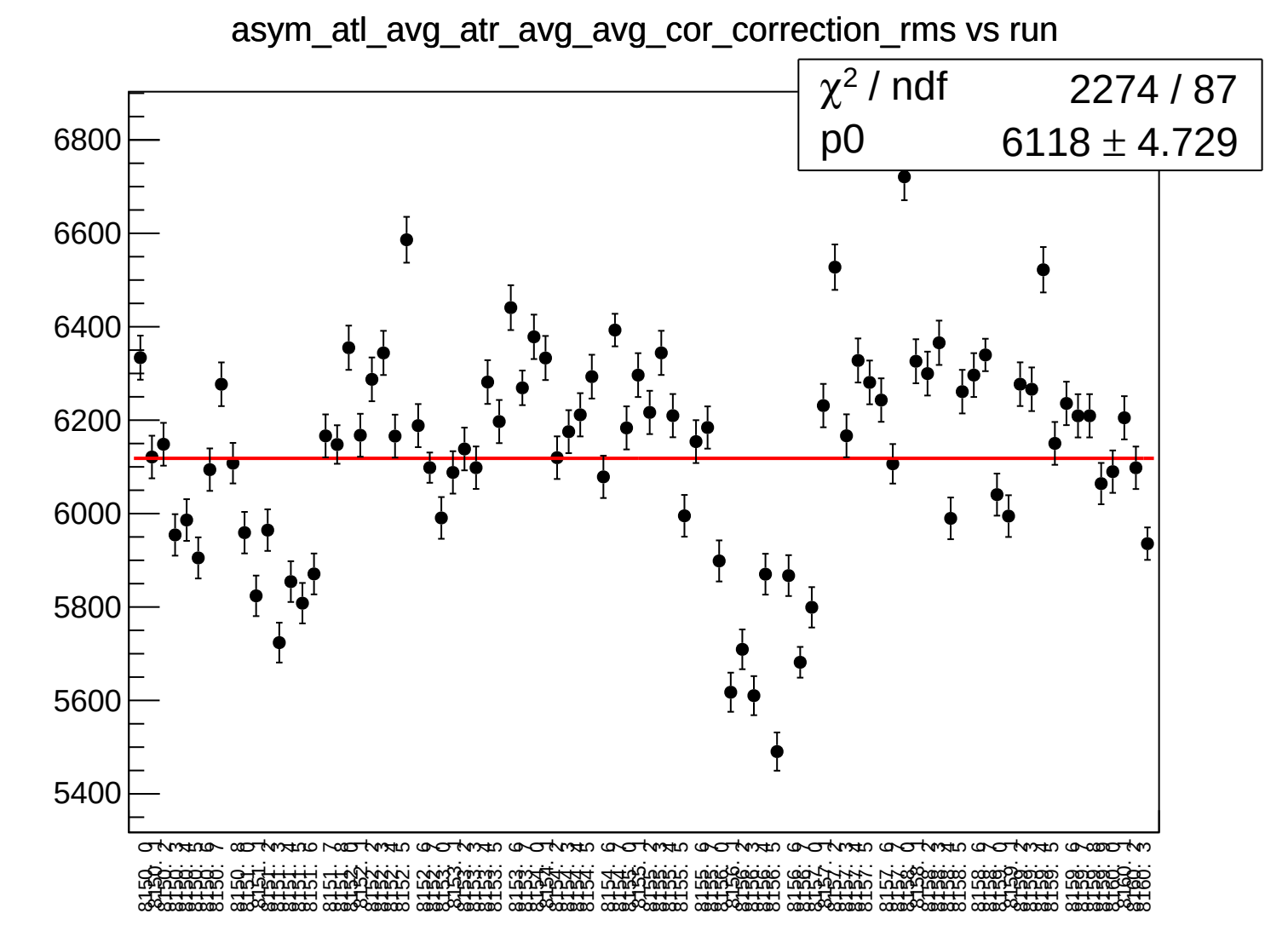

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 91.21 / 87
p0 −1005 ± 1458
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 156.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

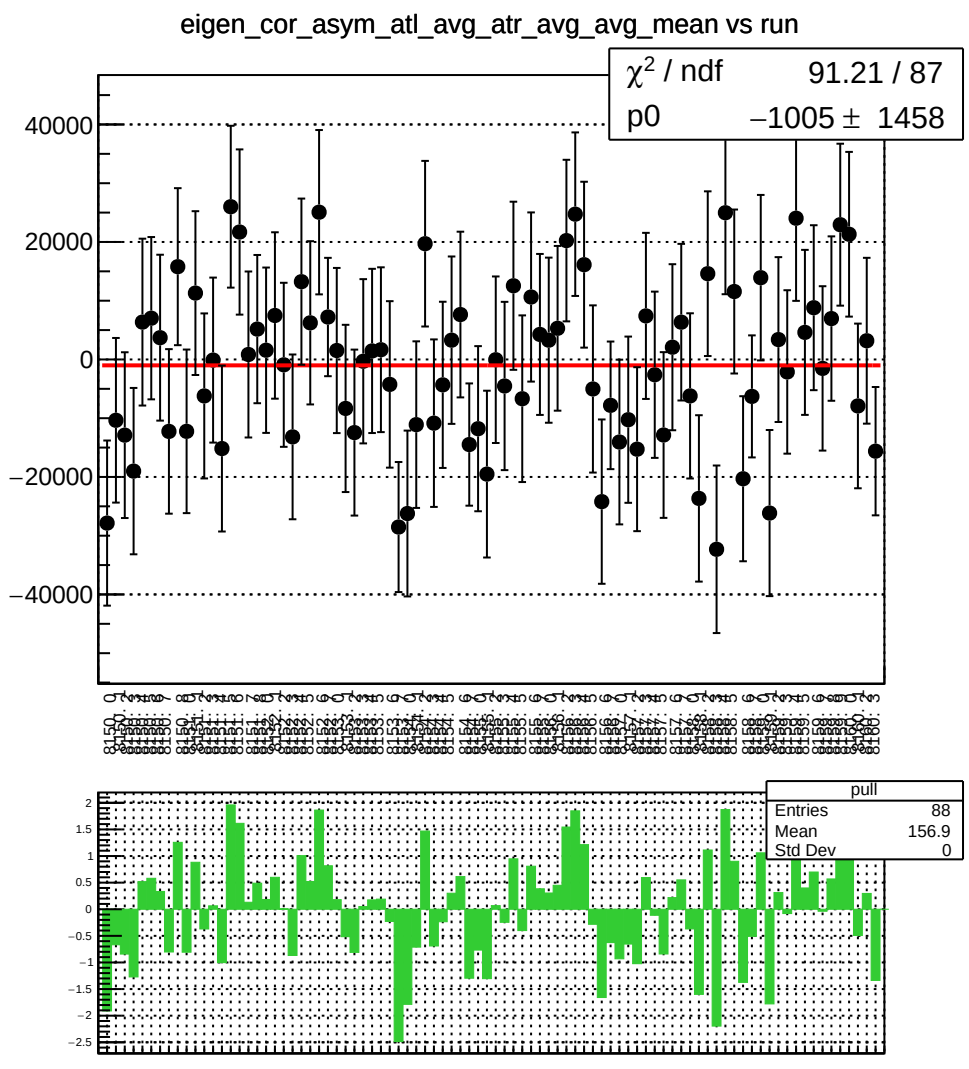

pull1D
Entries 88
Mean 0.01319
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

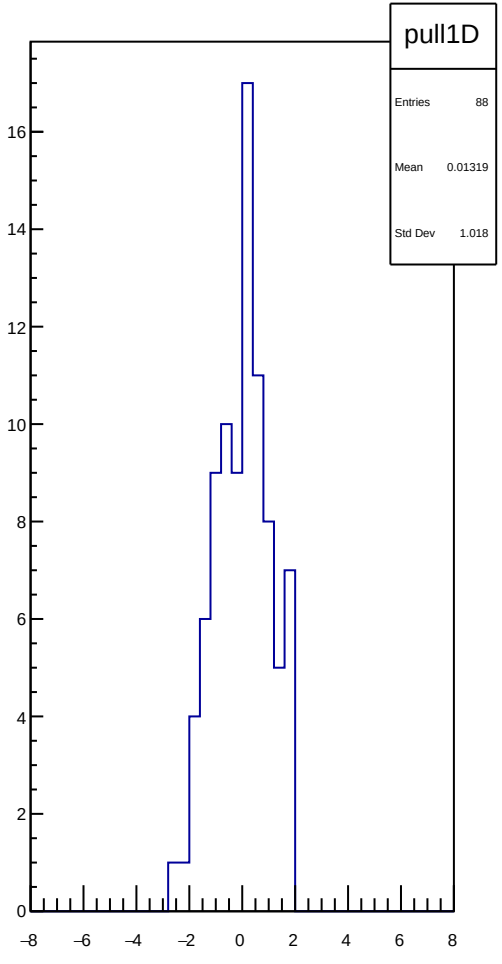

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 119.3 / 87
p0 1335 ± 1.031
1380
1370
1360
1350
1340
1330
1320
1310
1300
1290

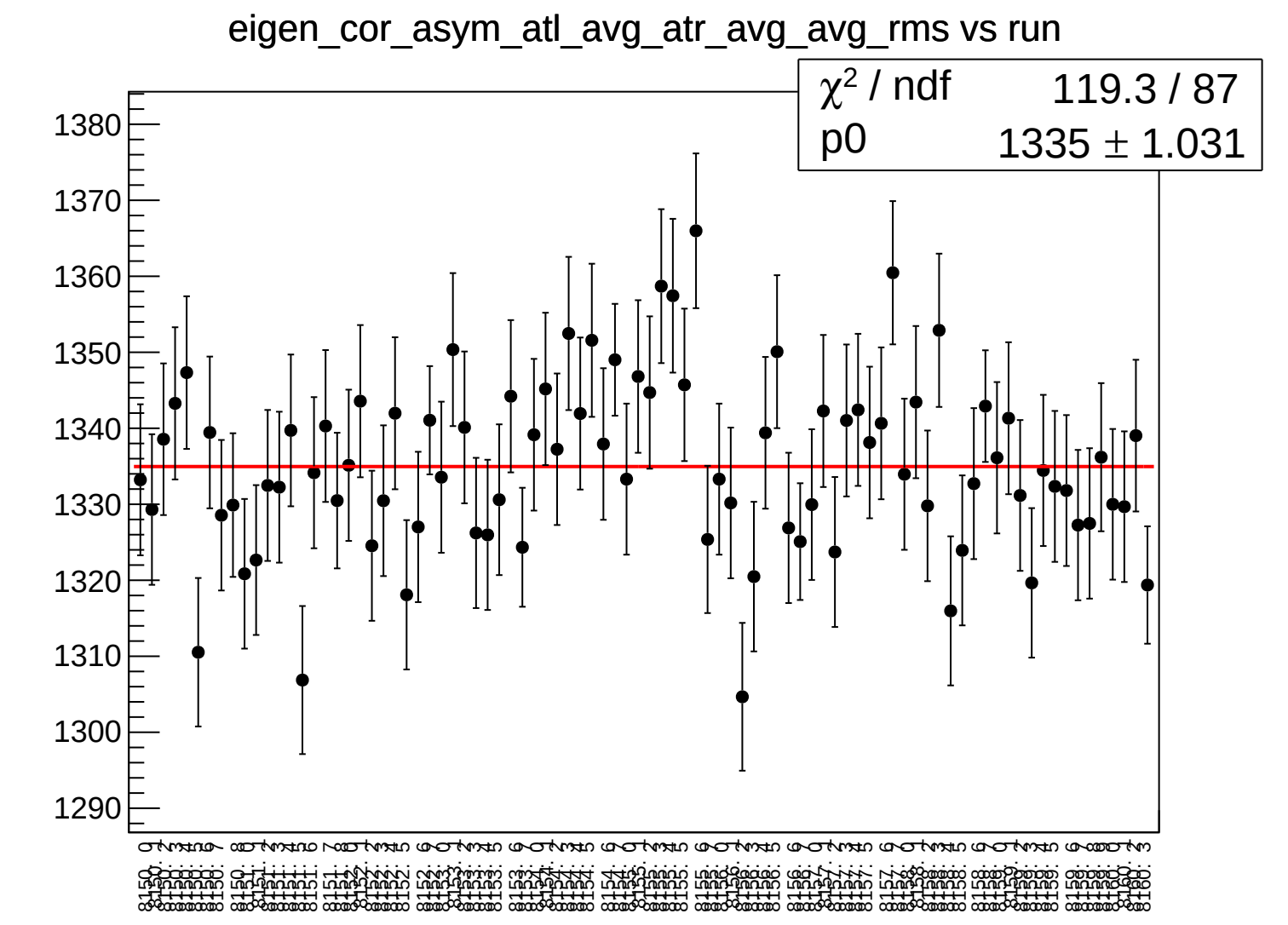

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 106.1 / 87
p0 −1.055e+04 ± 6687
200
100
0
−100
−200
pull
Entries 88
Mean −1.676e+04
Std Dev 0
2
1
0
−1
−2

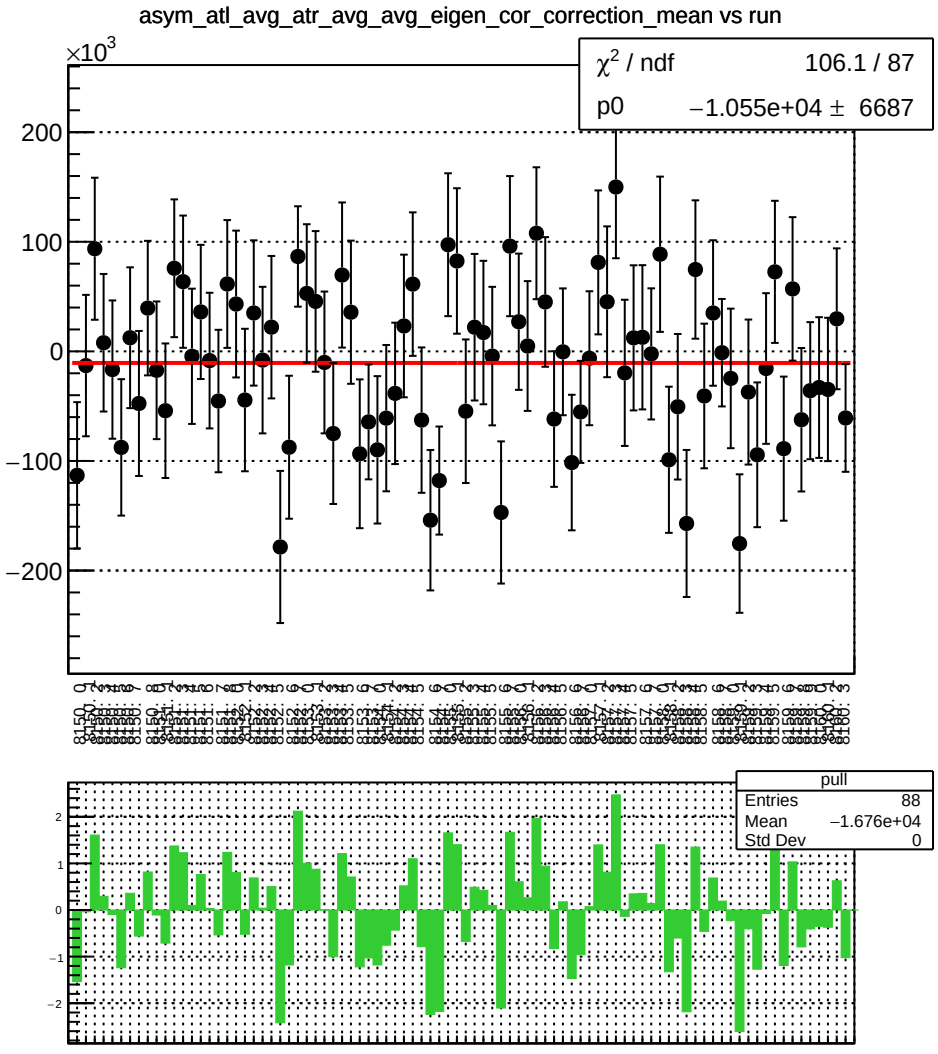

pull1D
Entries 88
Mean 0.0001414
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

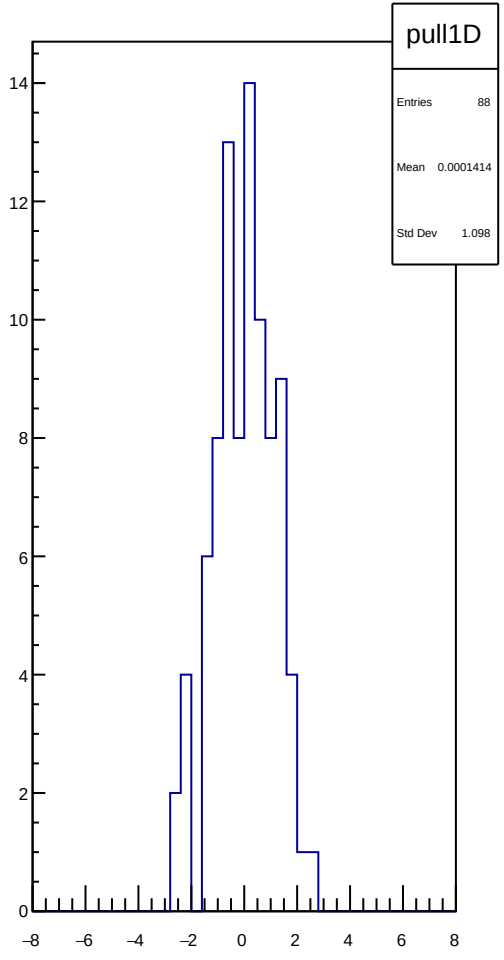

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 2274 / 87
p0 6118 ± 4.729
6800
6600
6400
6200
6000
5800
5600
5400

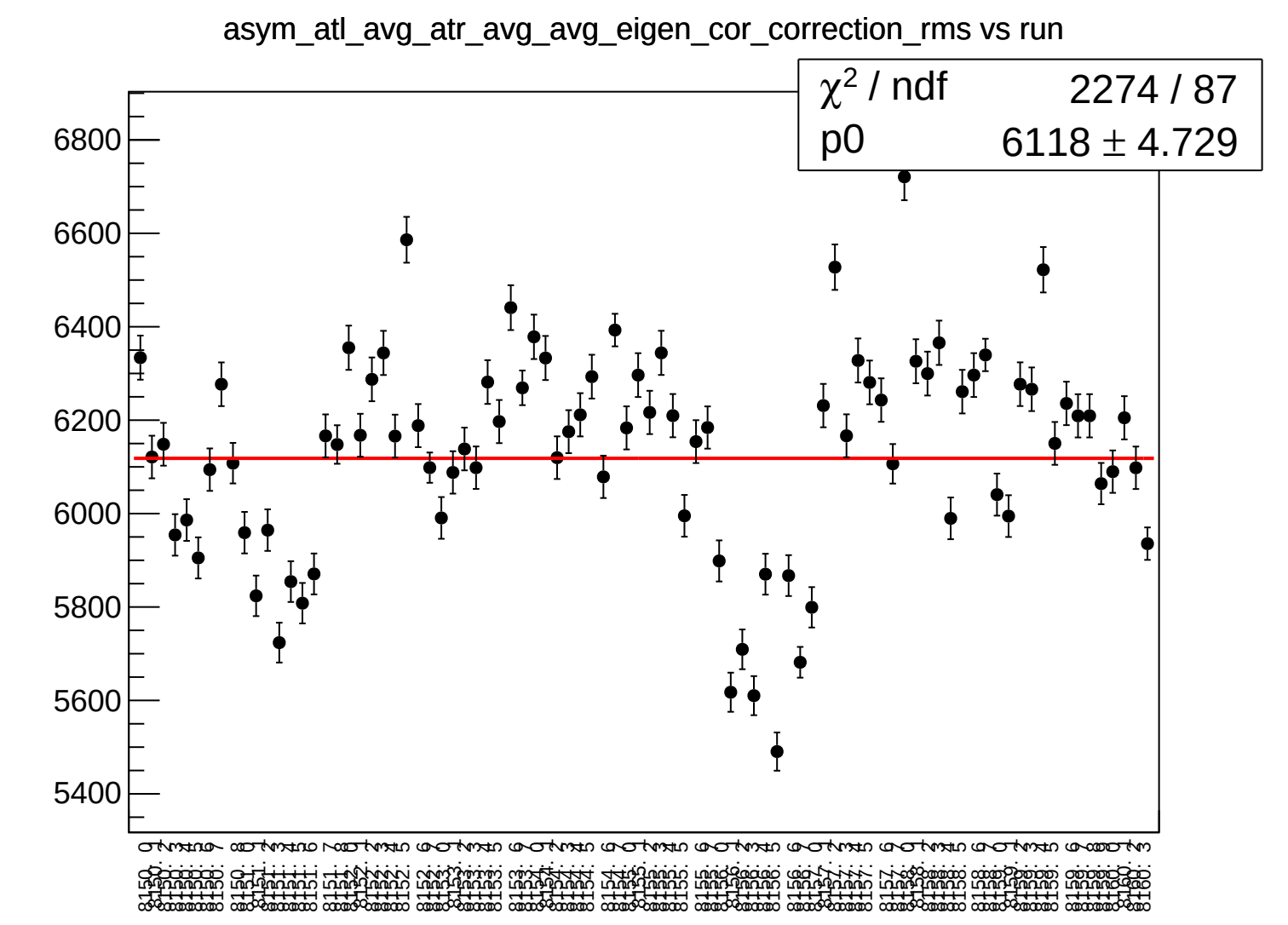

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 91.21 / 87
p0 −1005 ± 1458
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 156.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

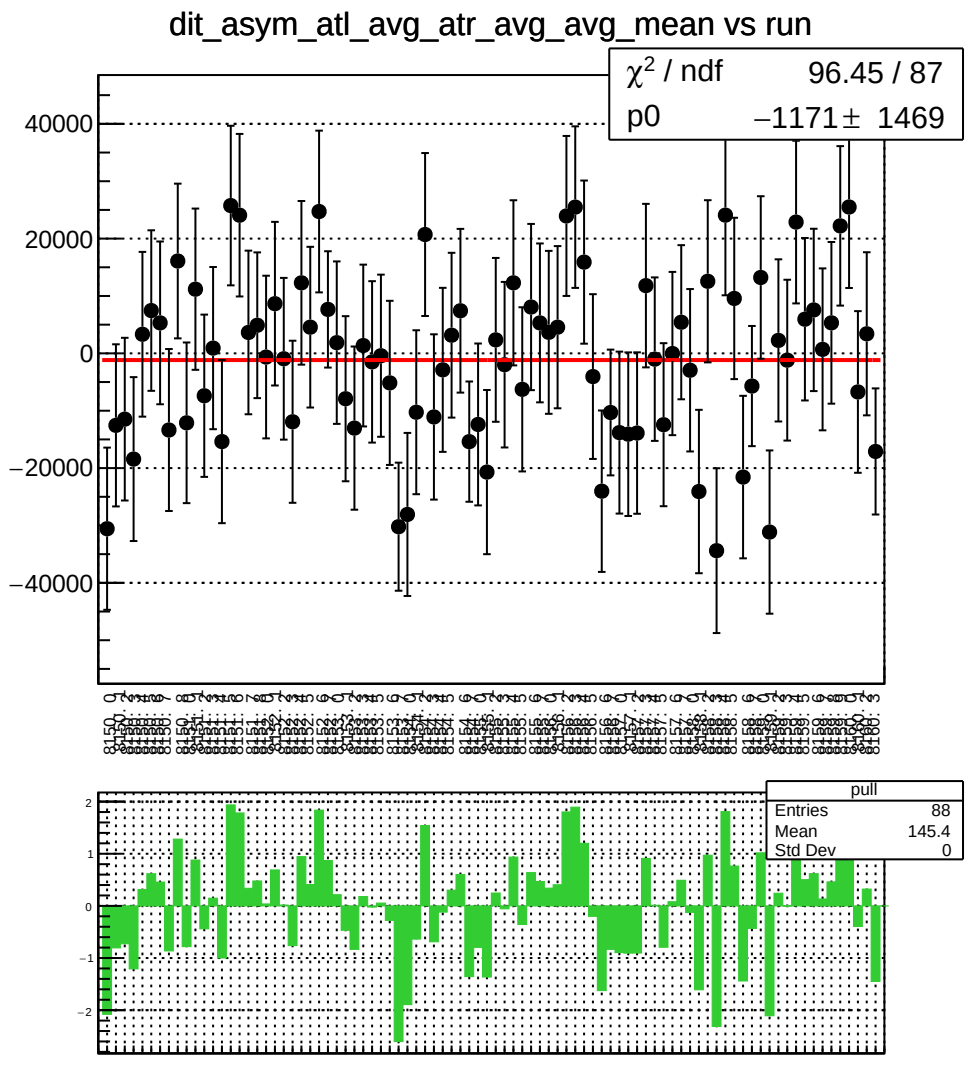

pull1D
Entries 88
Mean 0.01319
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

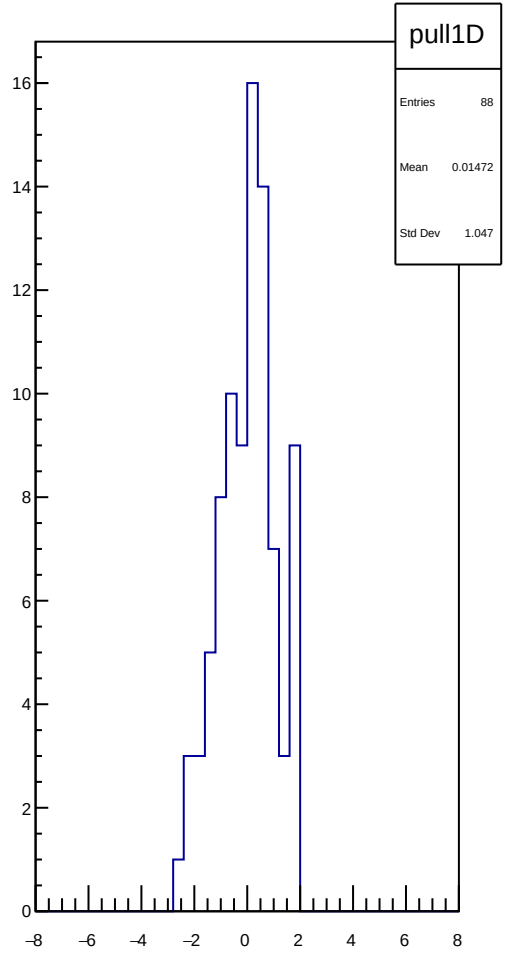

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 119.3 / 87
p0 1335 ± 1.031
1380
1370
1360
1350
1340
1330
1320
1310
1300
1290

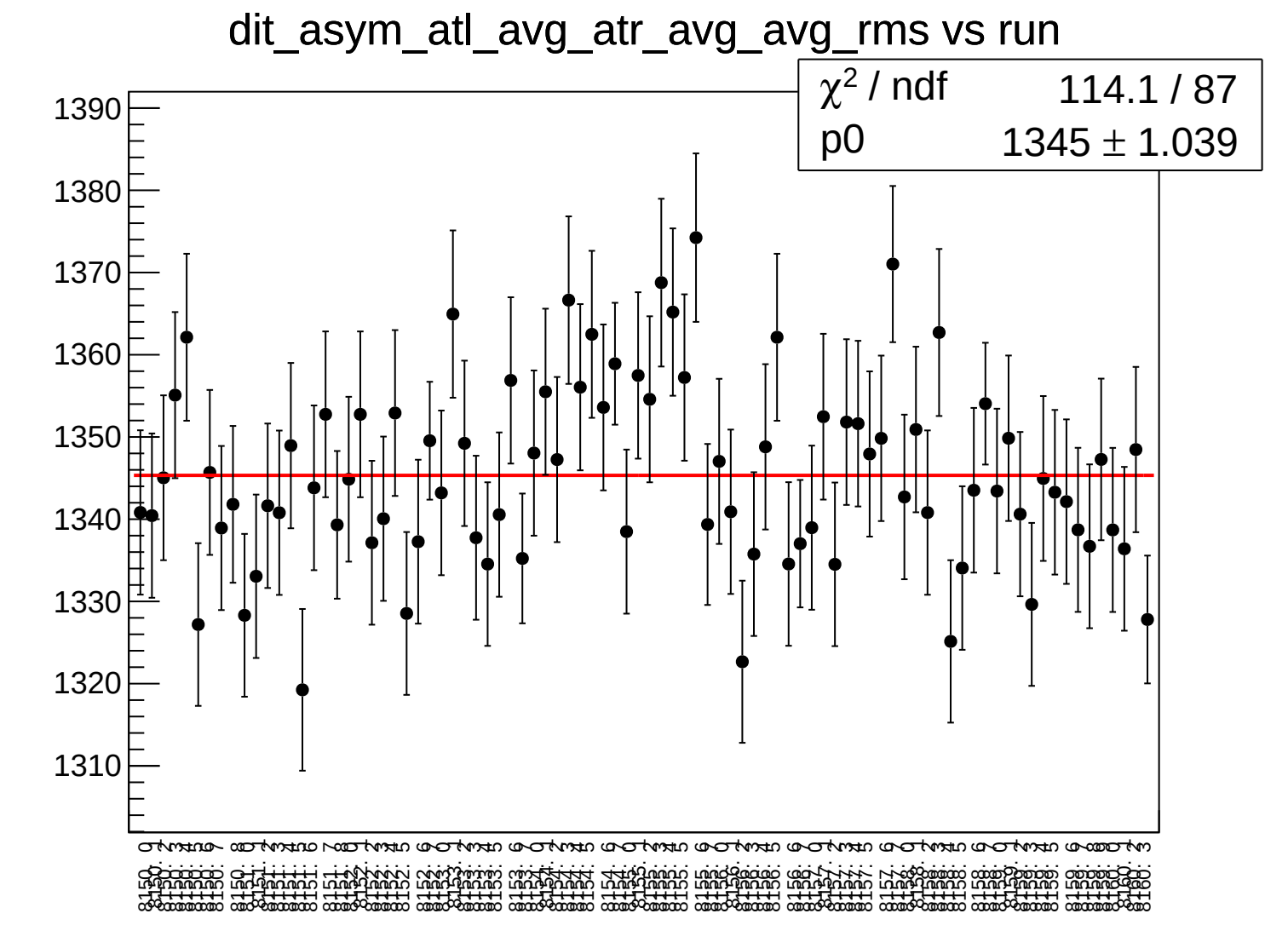

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.1 / 87
p0 −1.055e+04 ± 6687
200
100
0
−100
−200
pull
Entries 88
Mean −1.676e+04
Std Dev 0
2
1
0
−1
−2

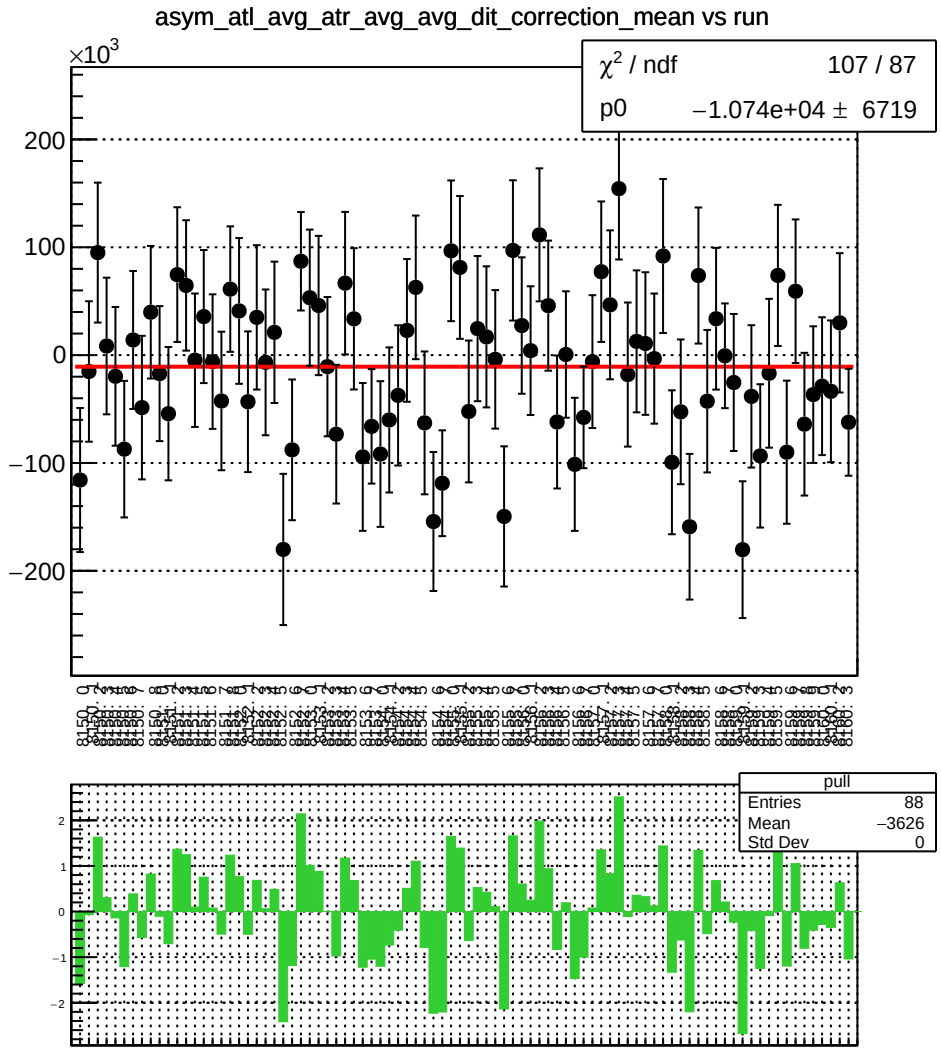

pull1D
Entries 88
Mean 0.0001414
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

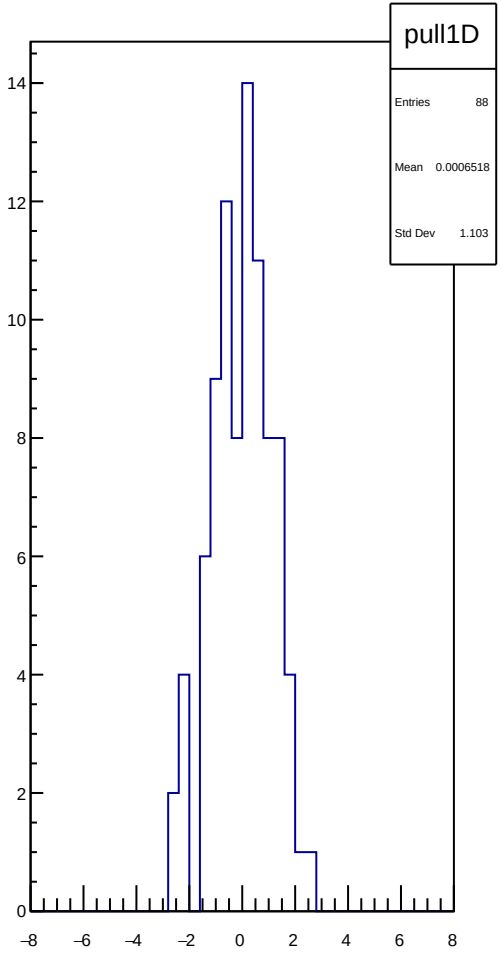

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2274 / 87
p0 6118 ± 4.729
6800
6600
6400
6200
6000
5800
5600
5400

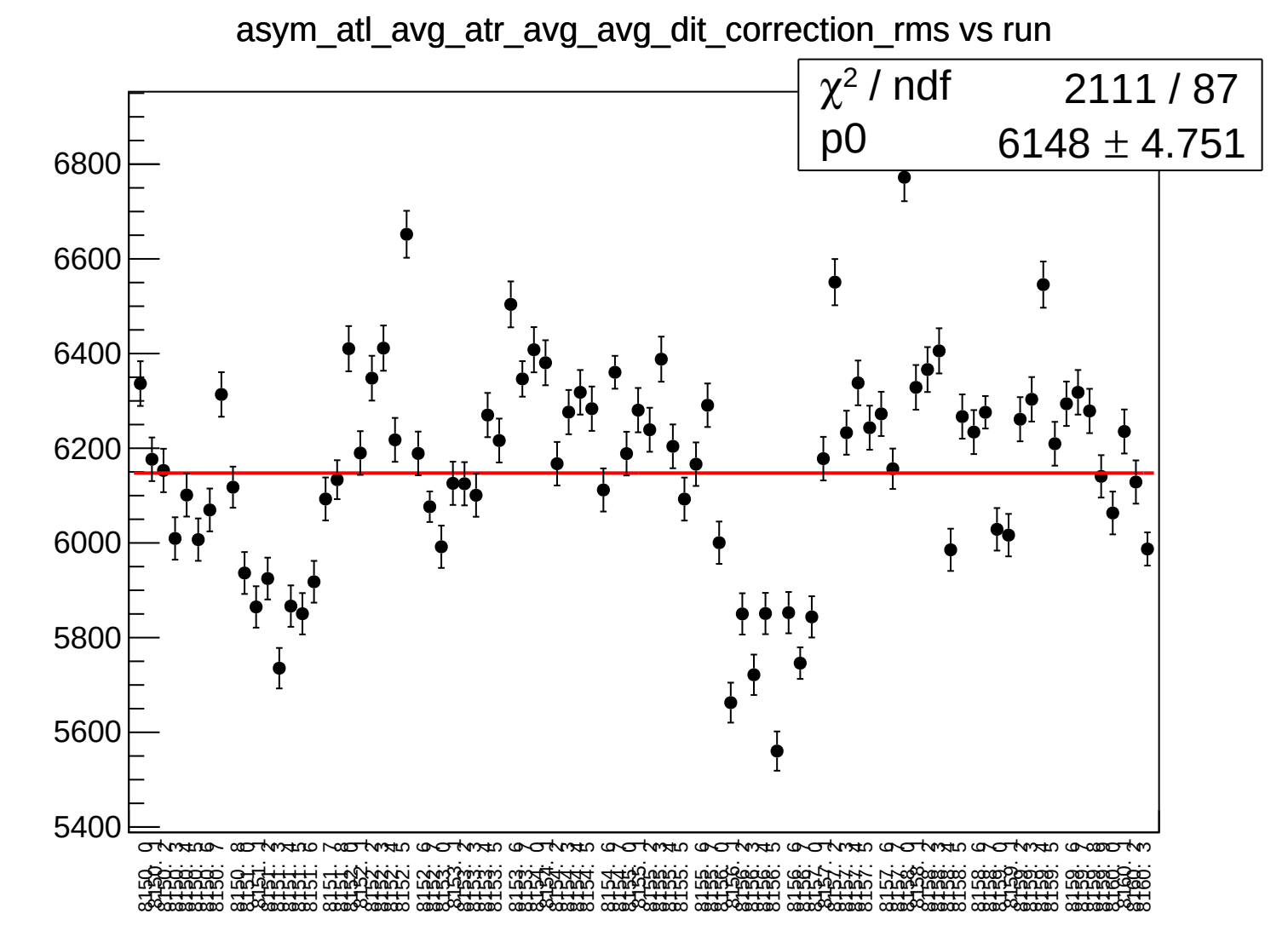

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 96.45 / 87
p0 −1171 ± 1469
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 145.4
Std Dev 0
2
1
0
−1
−2

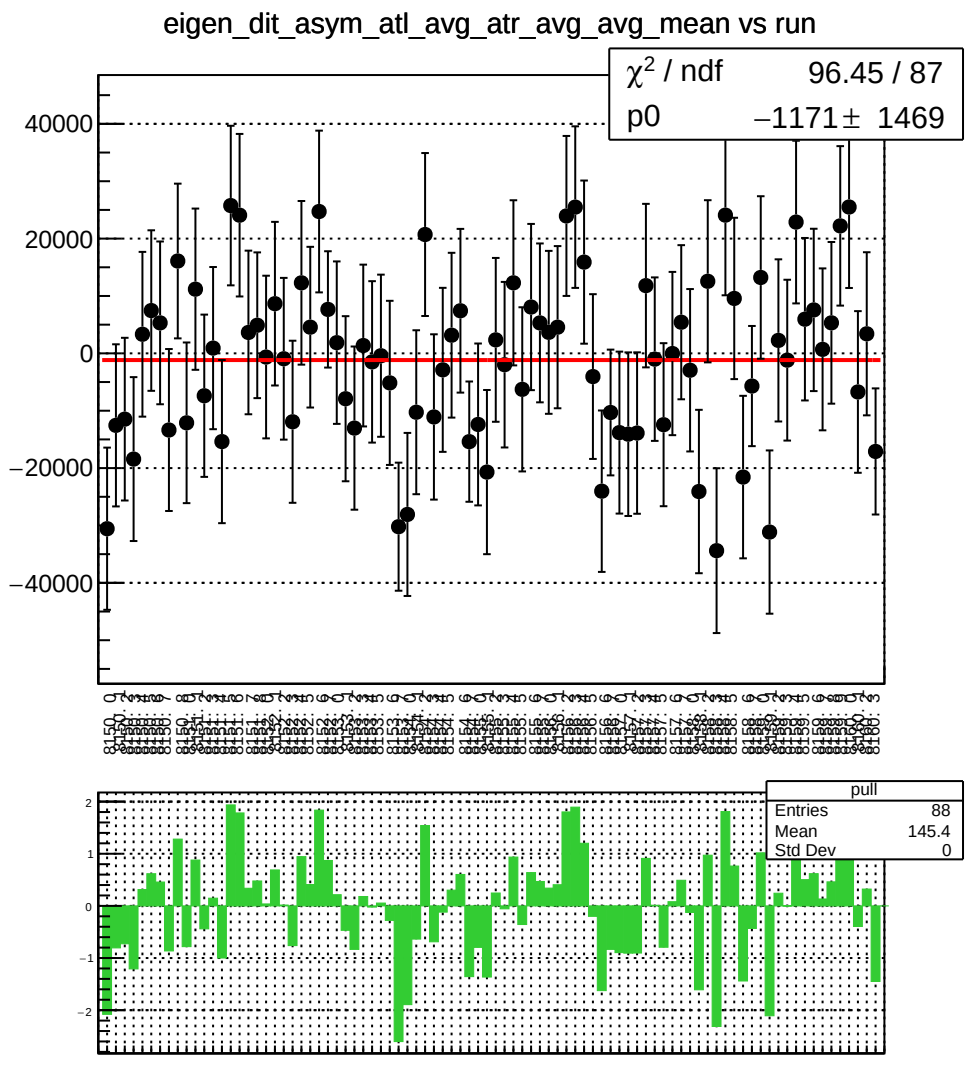

pull1D
Entries 88
Mean 0.01472
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

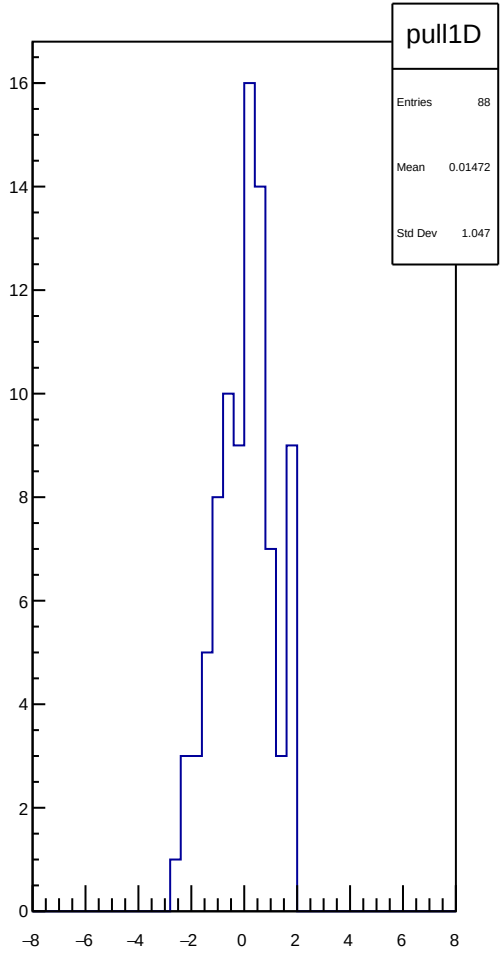

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 114.1 / 87
p0 1345 ± 1.039
1390
1380
1370
1360
1350
1340
1330
1320
1310

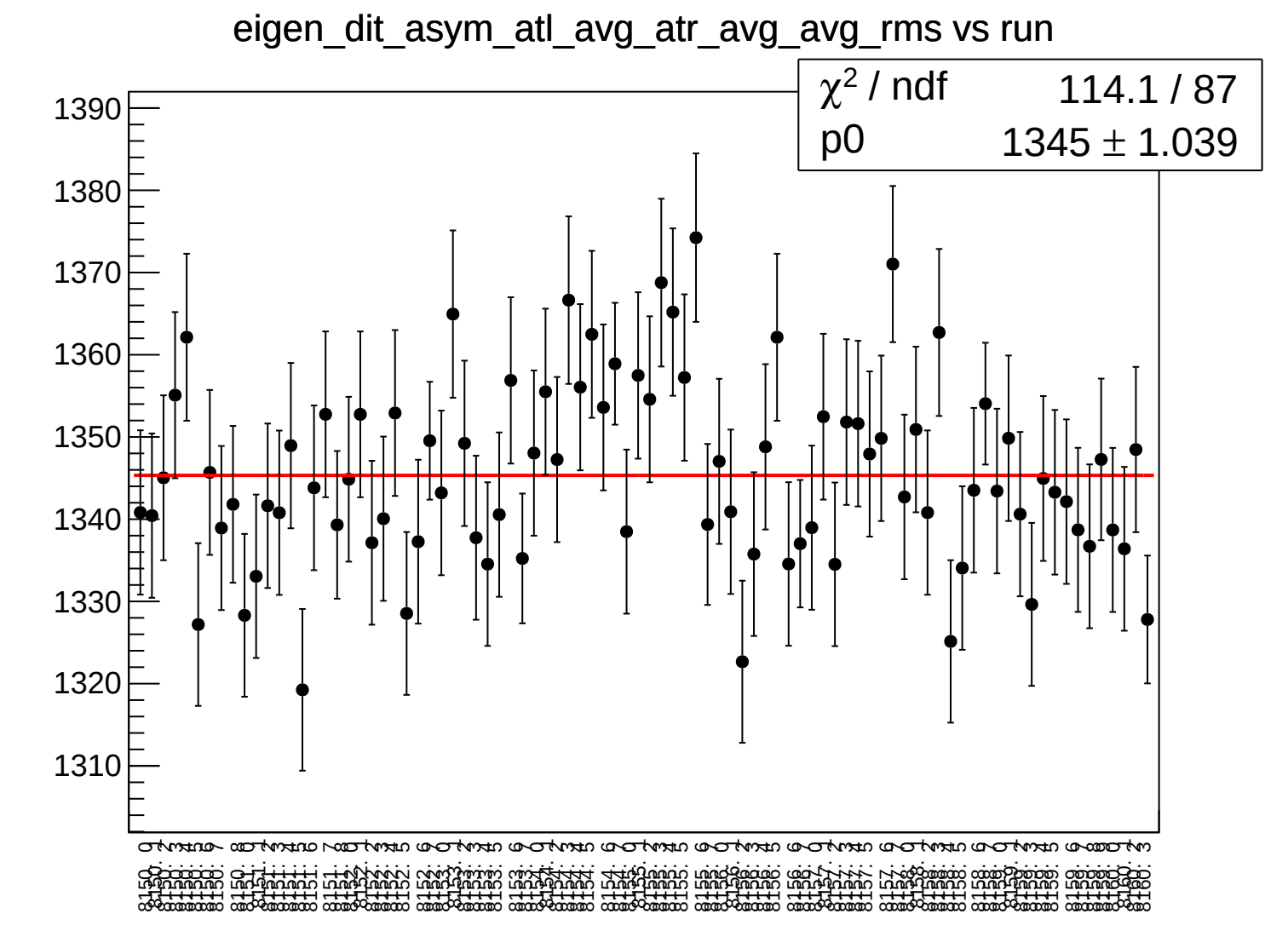

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 87
p0 −1.074e+04 ± 6719
200
100
0
−100
−200
pull
Entries 88
Mean −3626
Std Dev 0
2
1
0
−1
−2

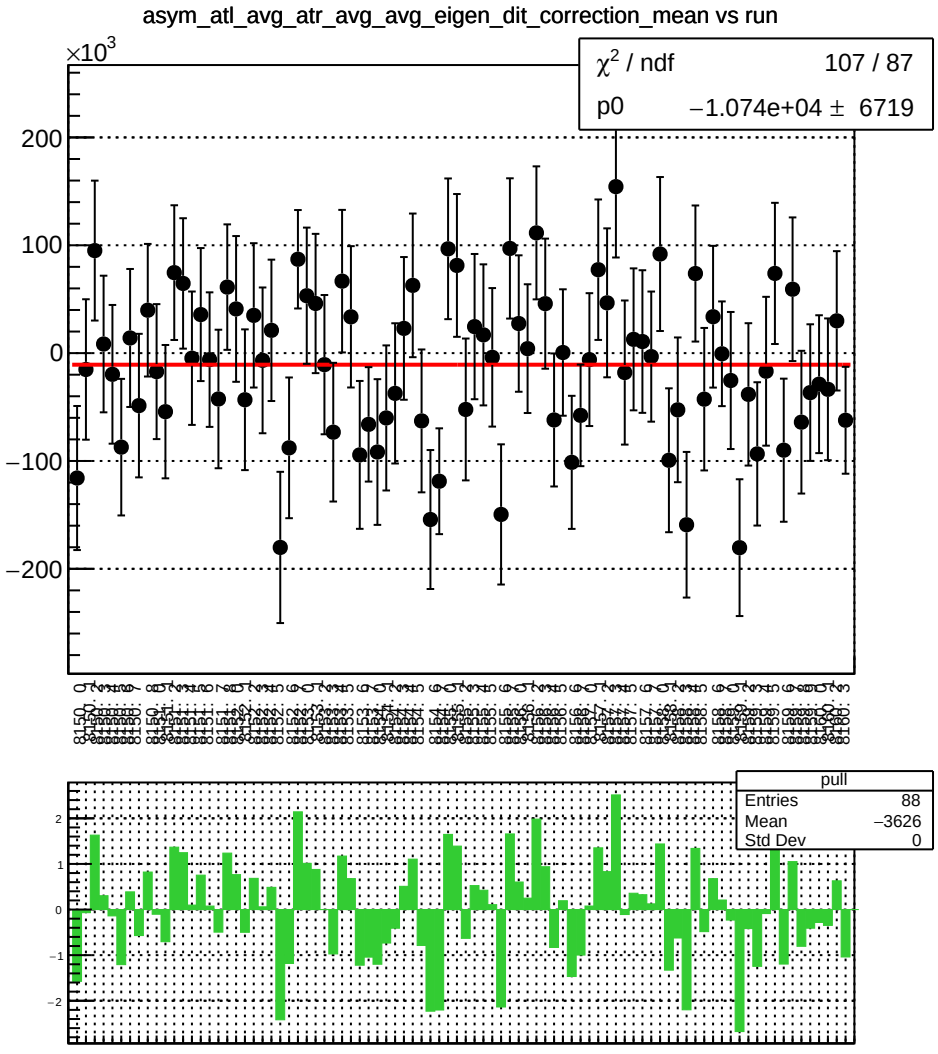

pull1D
Entries 88
Mean 0.0006518
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

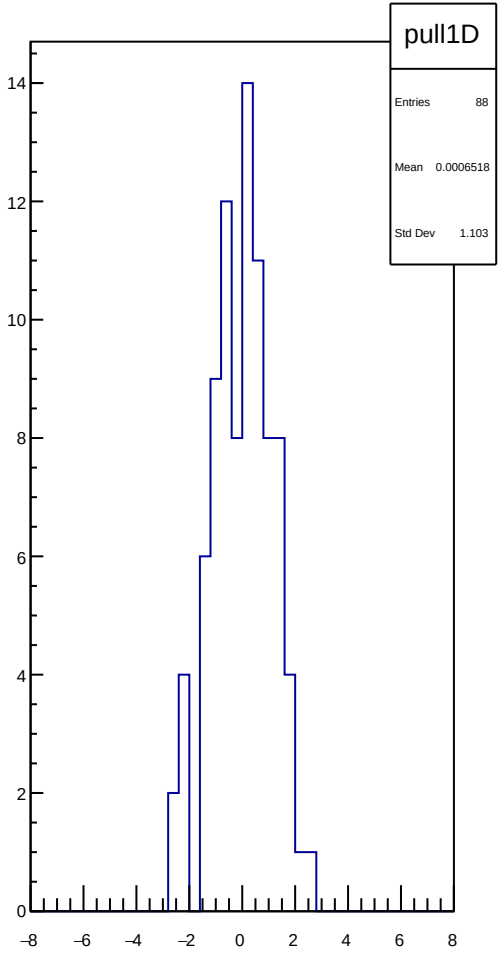

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 2111 / 87
p0 6148 ± 4.751
6800
6600
6400
6200
6000
5800
5600
5400

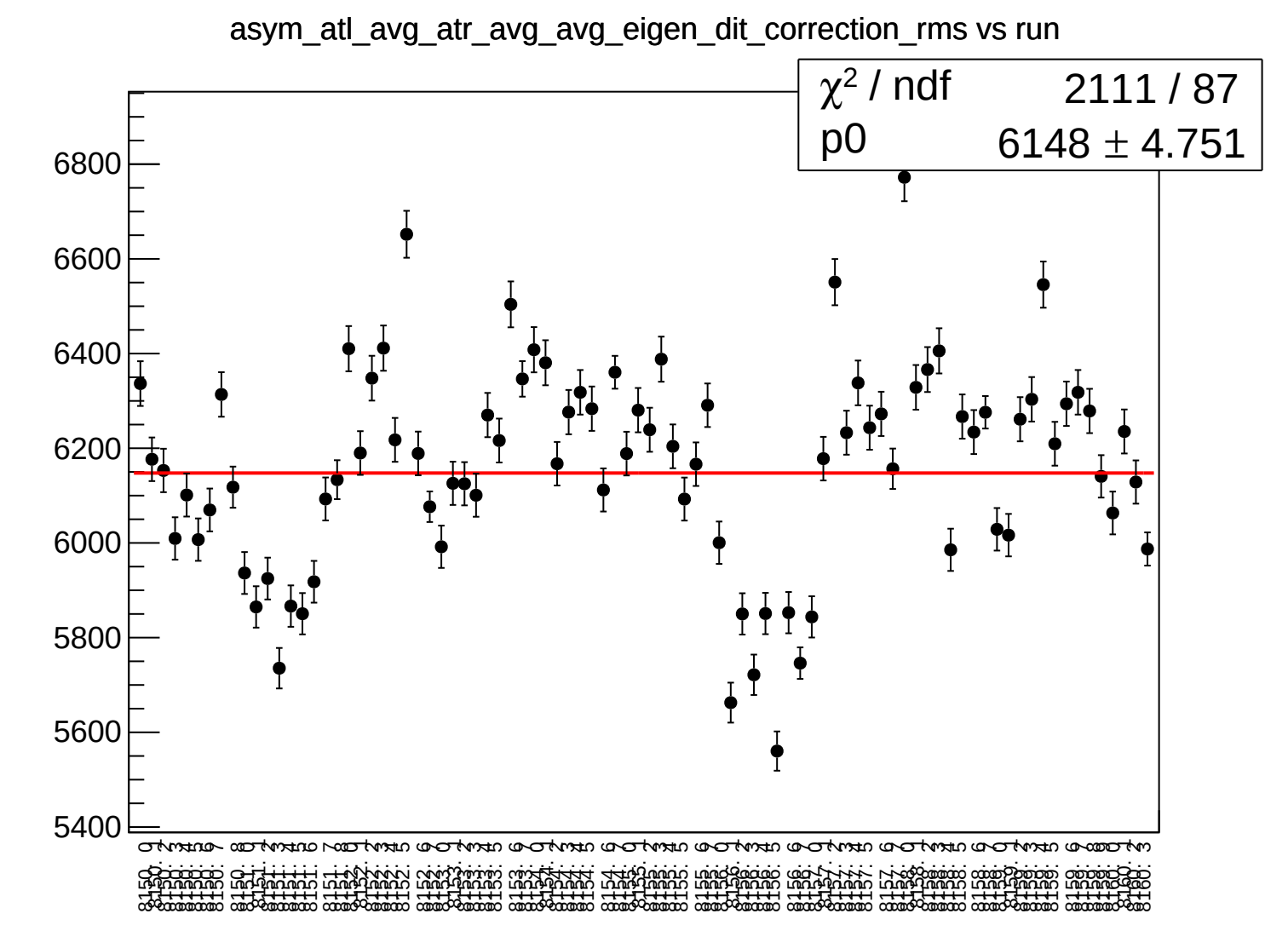

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 96.45 / 87
p0 −1171 ± 1469
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 145.4
Std Dev 0
2
1
0
−1
−2

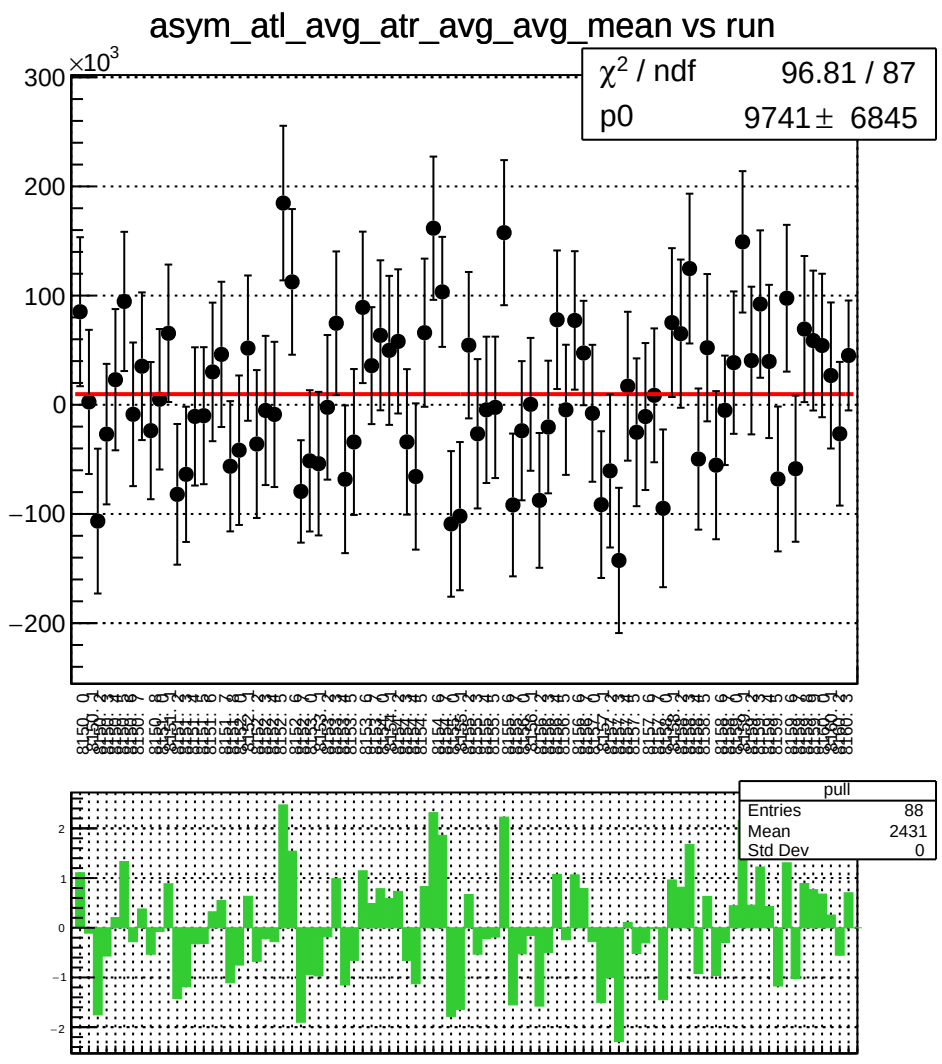

pull1D
Entries 88
Mean 0.01472
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

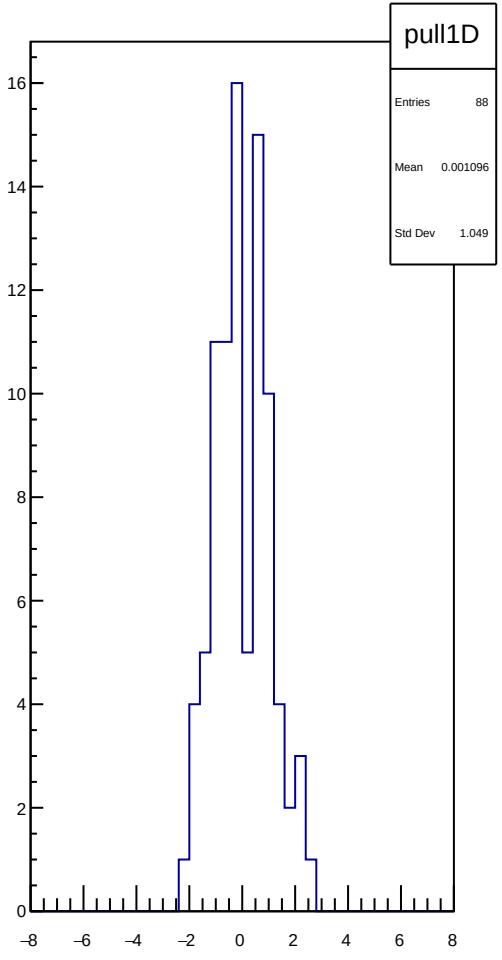

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 114.1 / 87
p0 1345 ± 1.039
1390
1380
1370
1360
1350
1340
1330
1320
1310

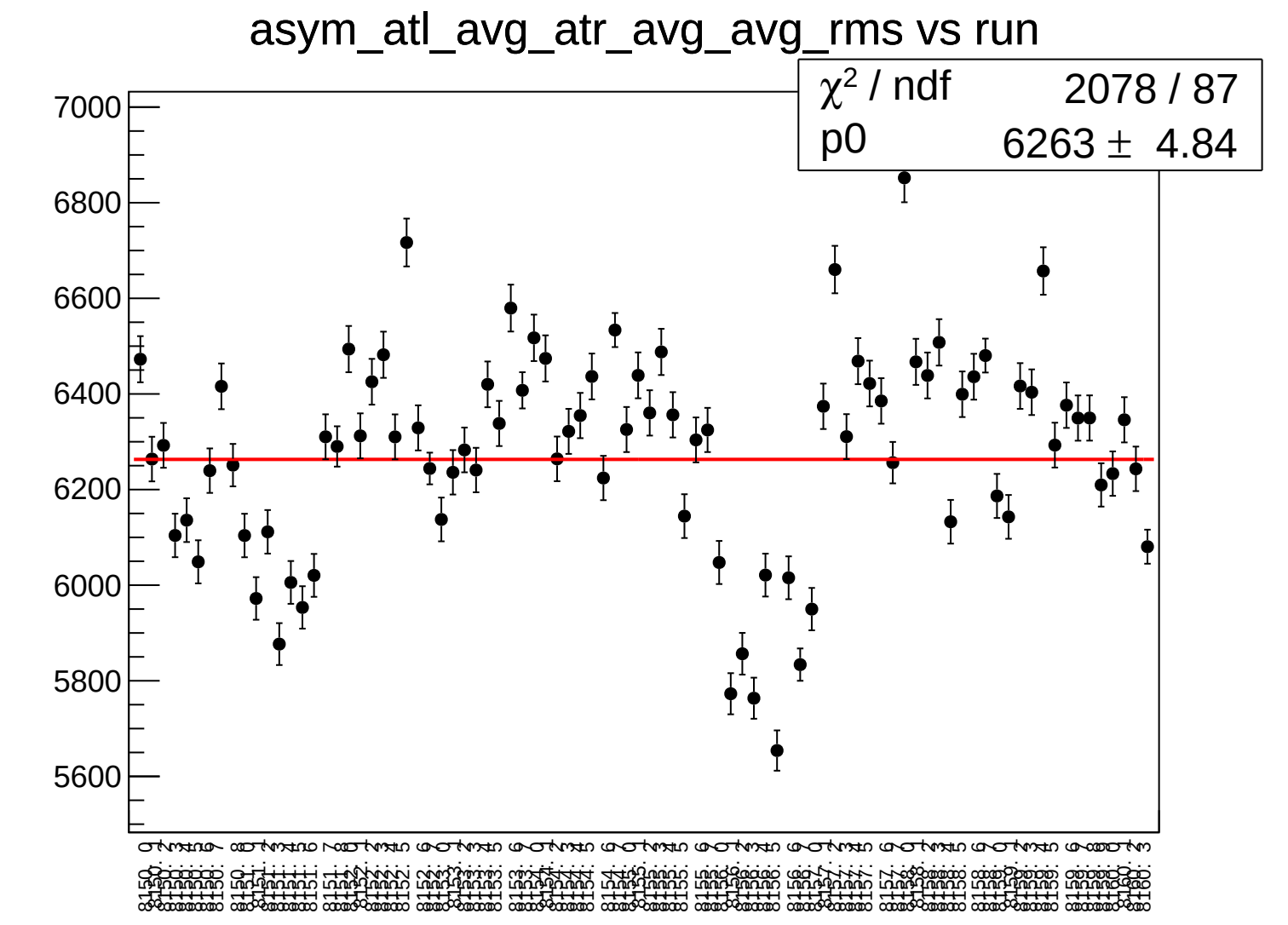

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 87
p0 −1.074e+04 ± 6719
200
100
0
−100
−200
pull
Entries 88
Mean −3626
Std Dev 0
2
1
0
−1
−2

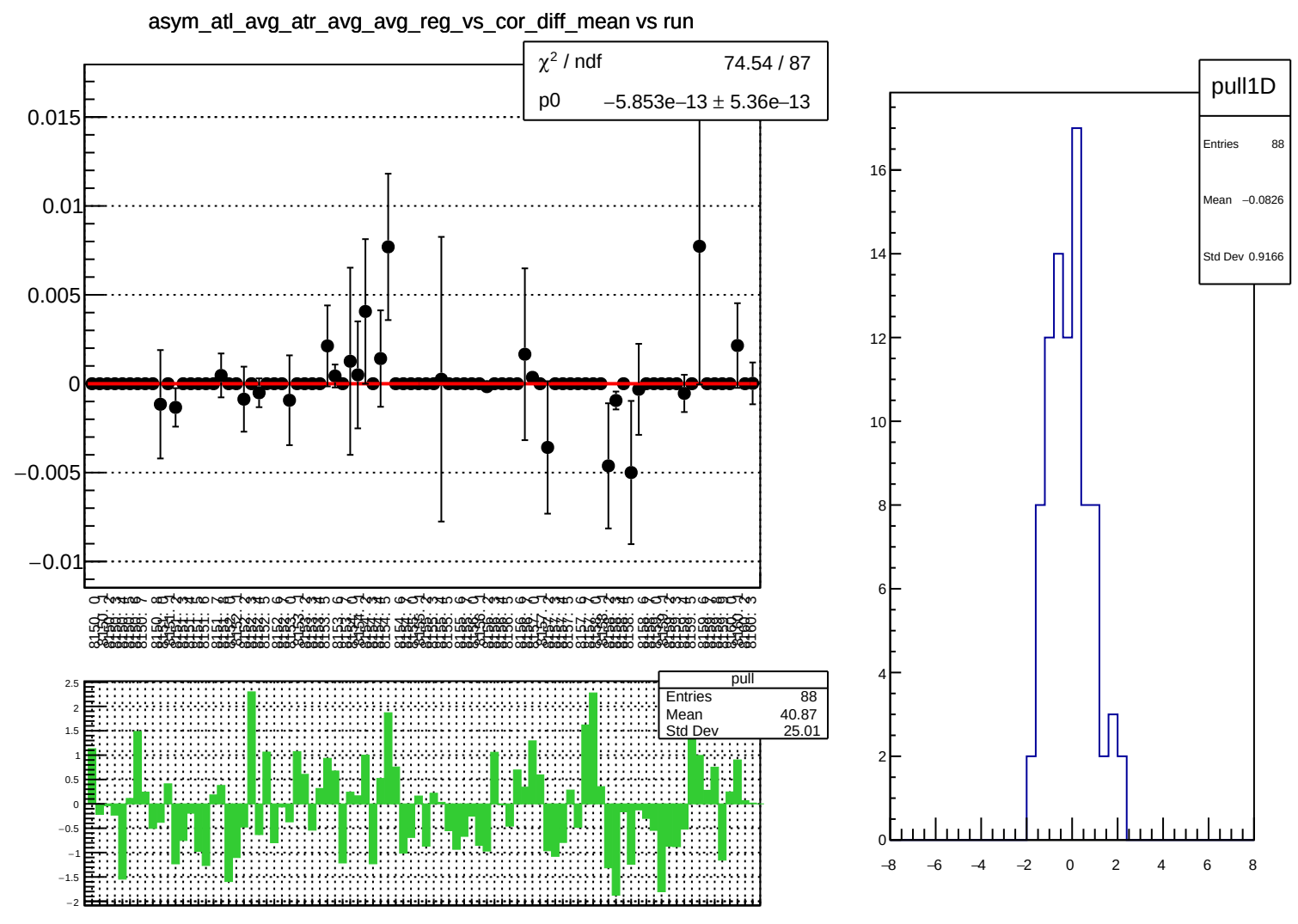

pull1D
Entries 88
Mean 0.0006518
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

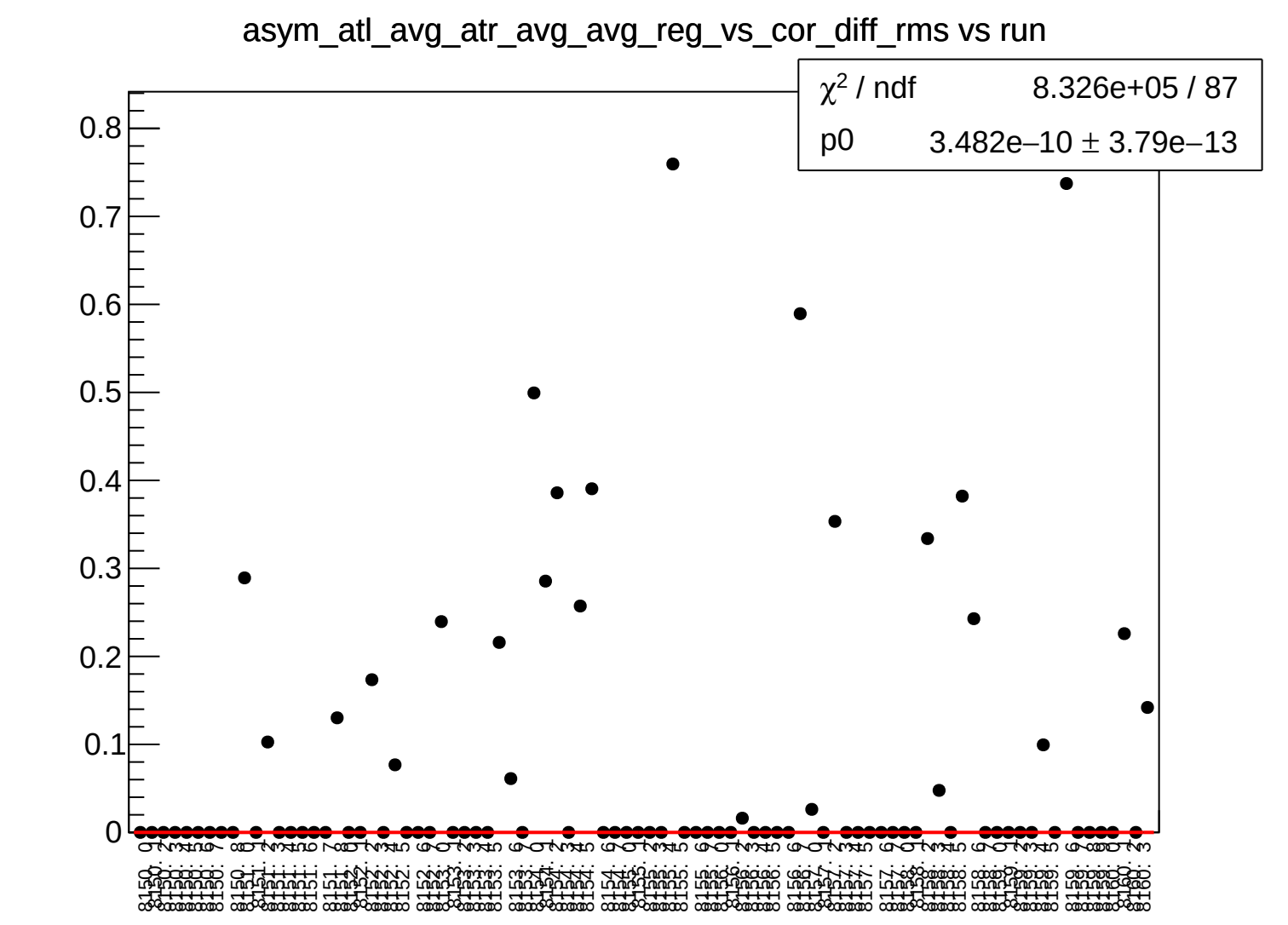

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2111 / 87
p0 6148 ± 4.751
6800
6600
6400
6200
6000
5800
5600
5400

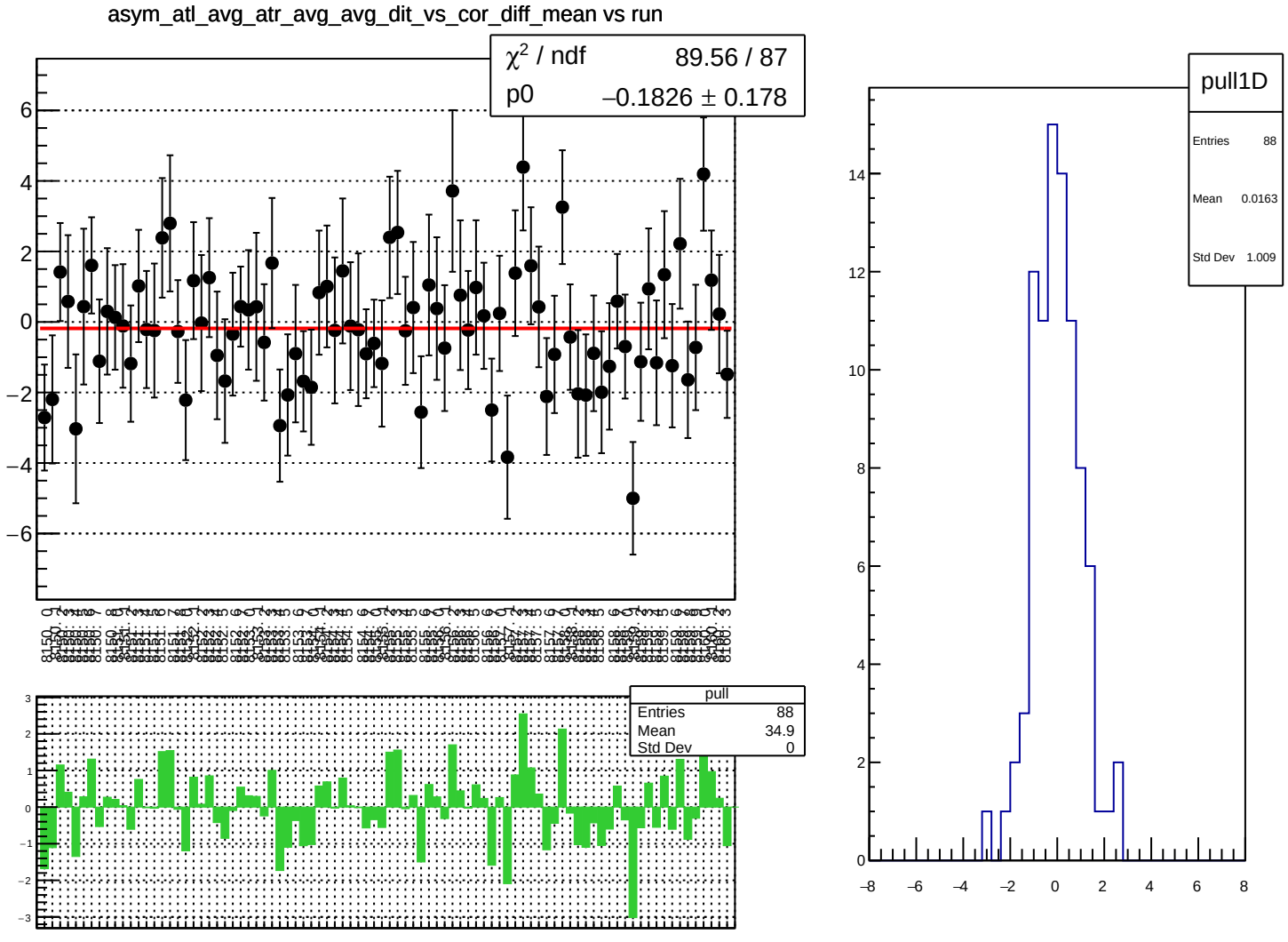

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 96.81 / 87
p0 9741 ± 6845
pull
Entries 88
Mean 2431
Std Dev 0

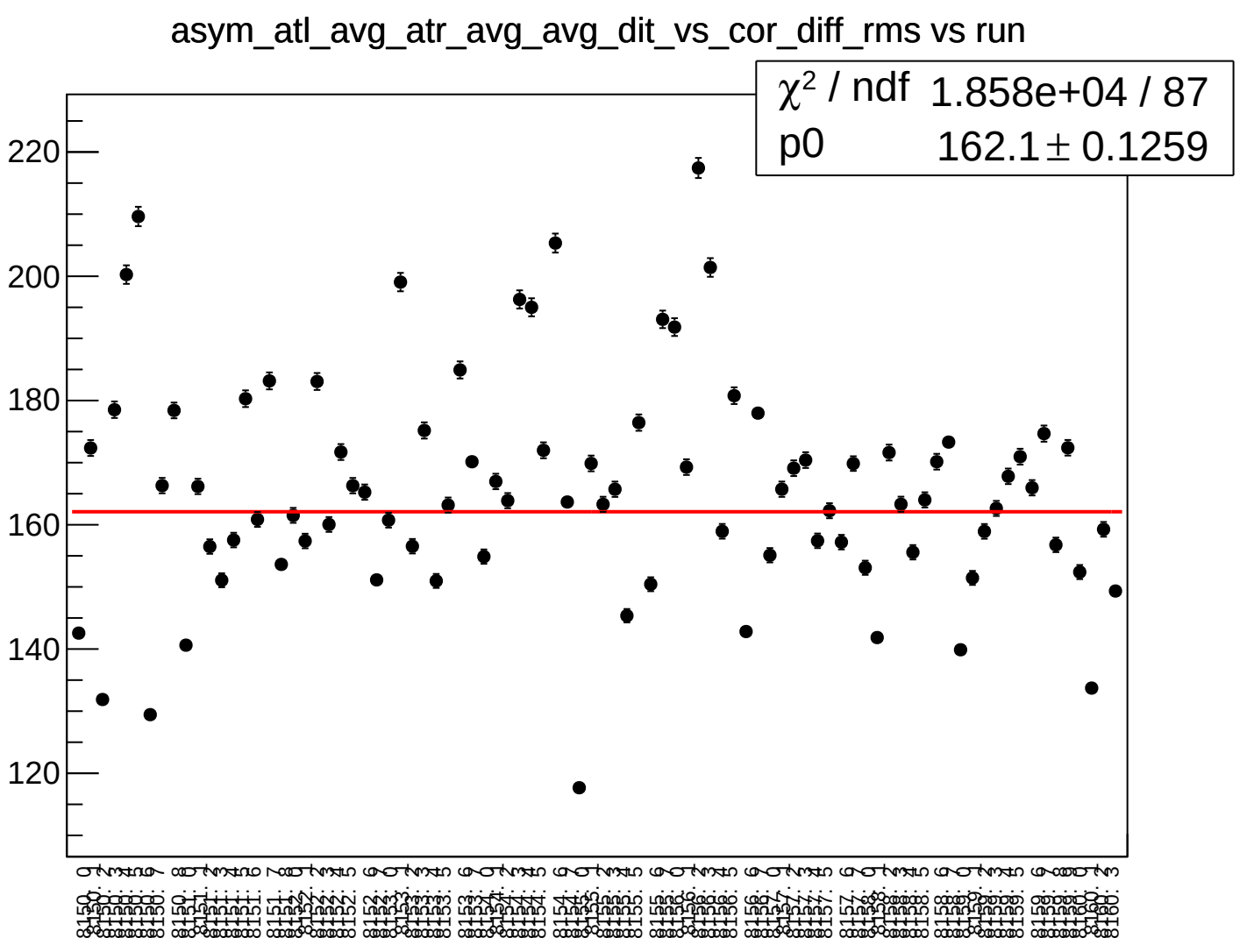

pull1D
Entries 88
Mean 0.001096
Std Dev 1.049

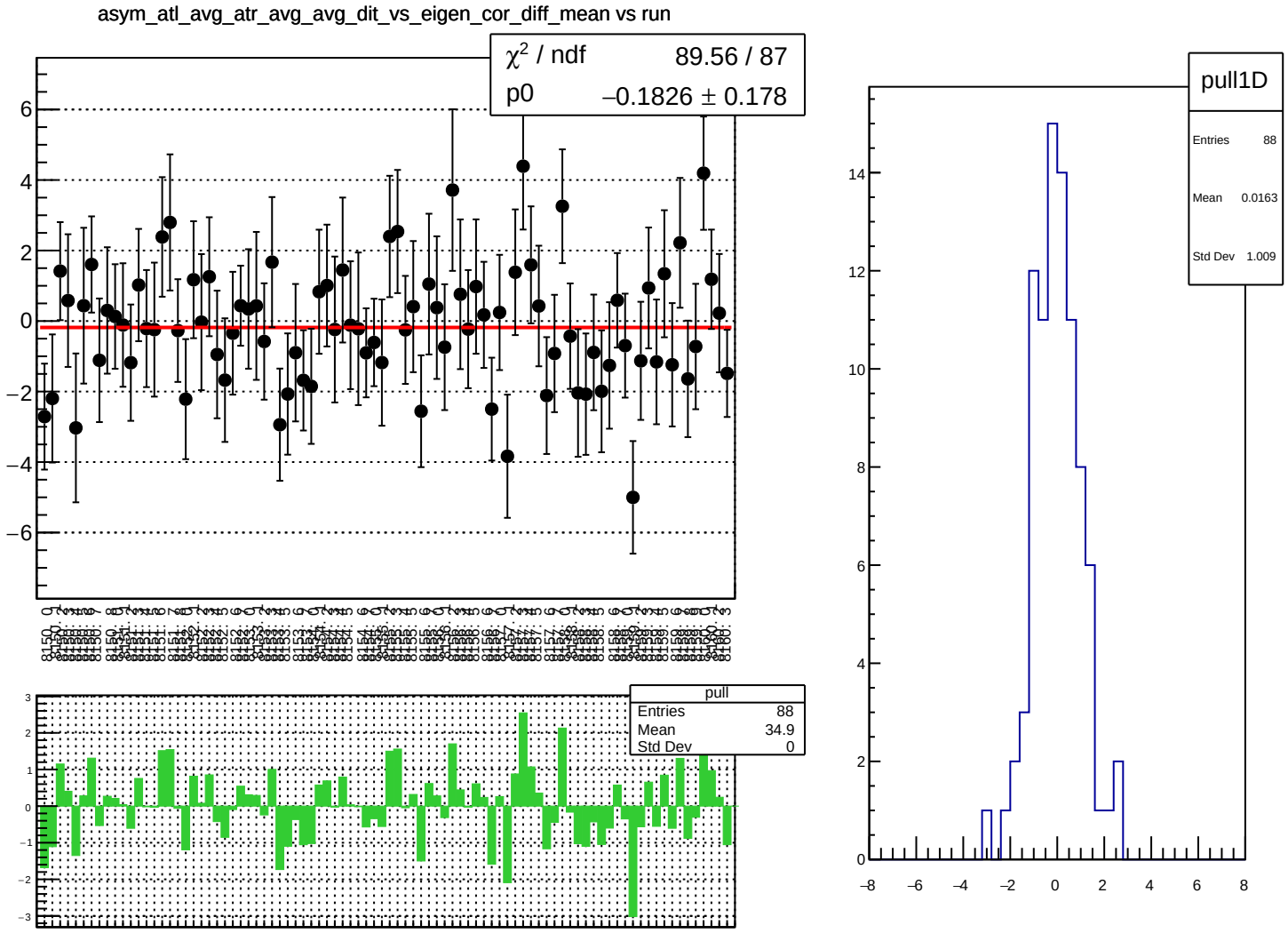

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2078 / 87
p0 6263 ± 4.84
7000
6800
6600
6400
6200
6000
5800
5600

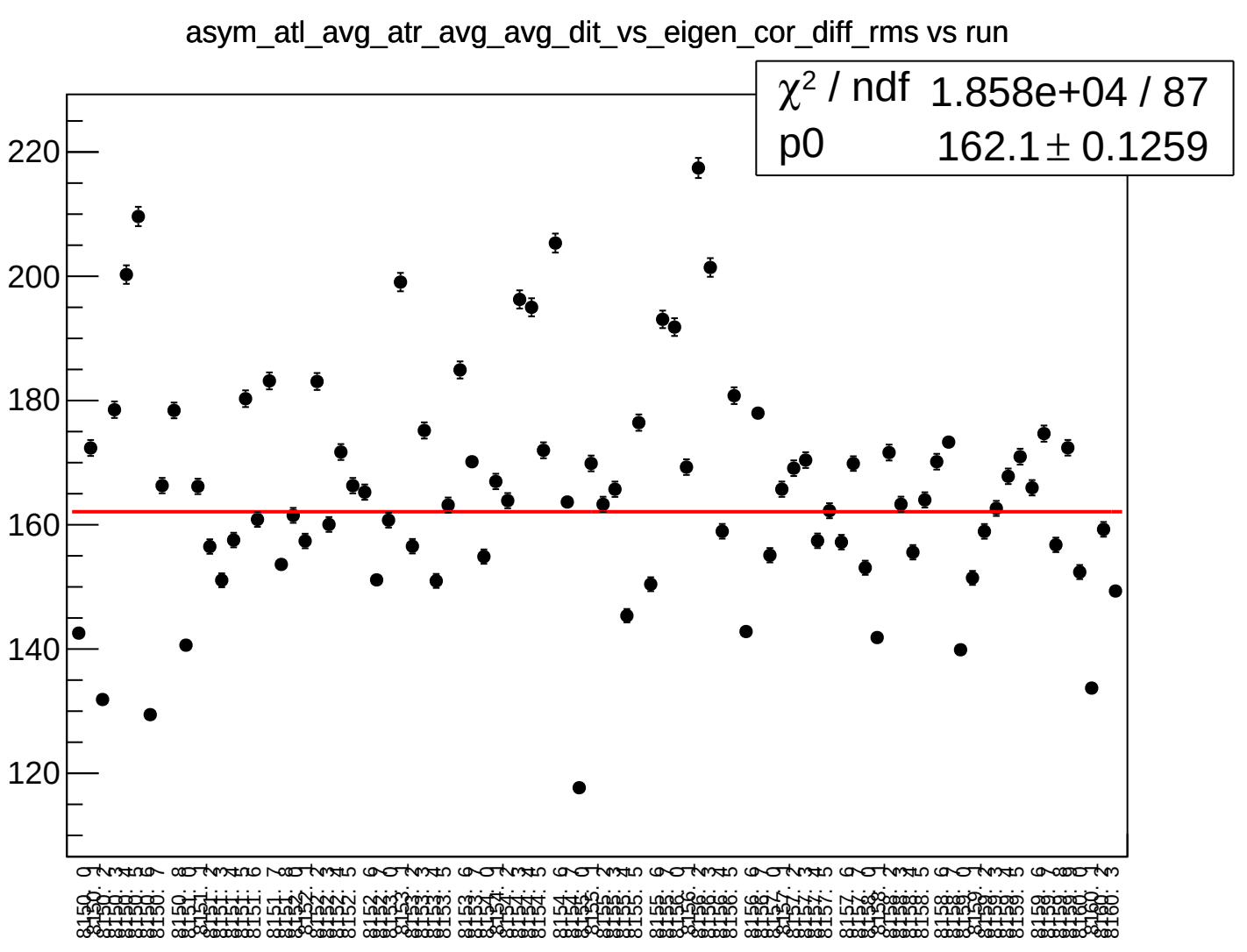

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.54 / 87
p0 −5.853e−13 ± 5.36e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 40.87
Std Dev 25.01
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.0826
Std Dev 0.9166
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

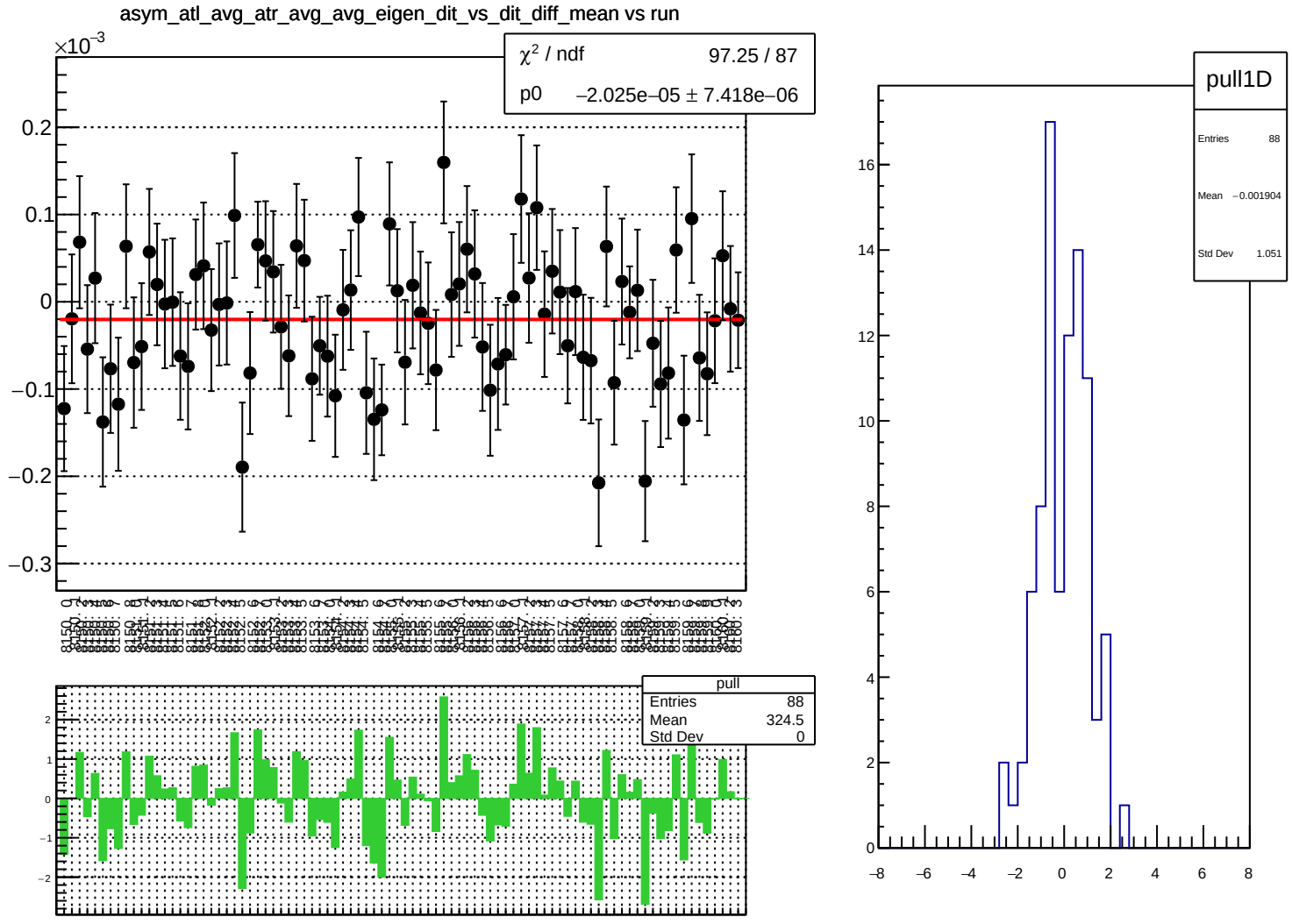

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.326e+05 / 87
p0 3.482e−10 ± 3.79e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

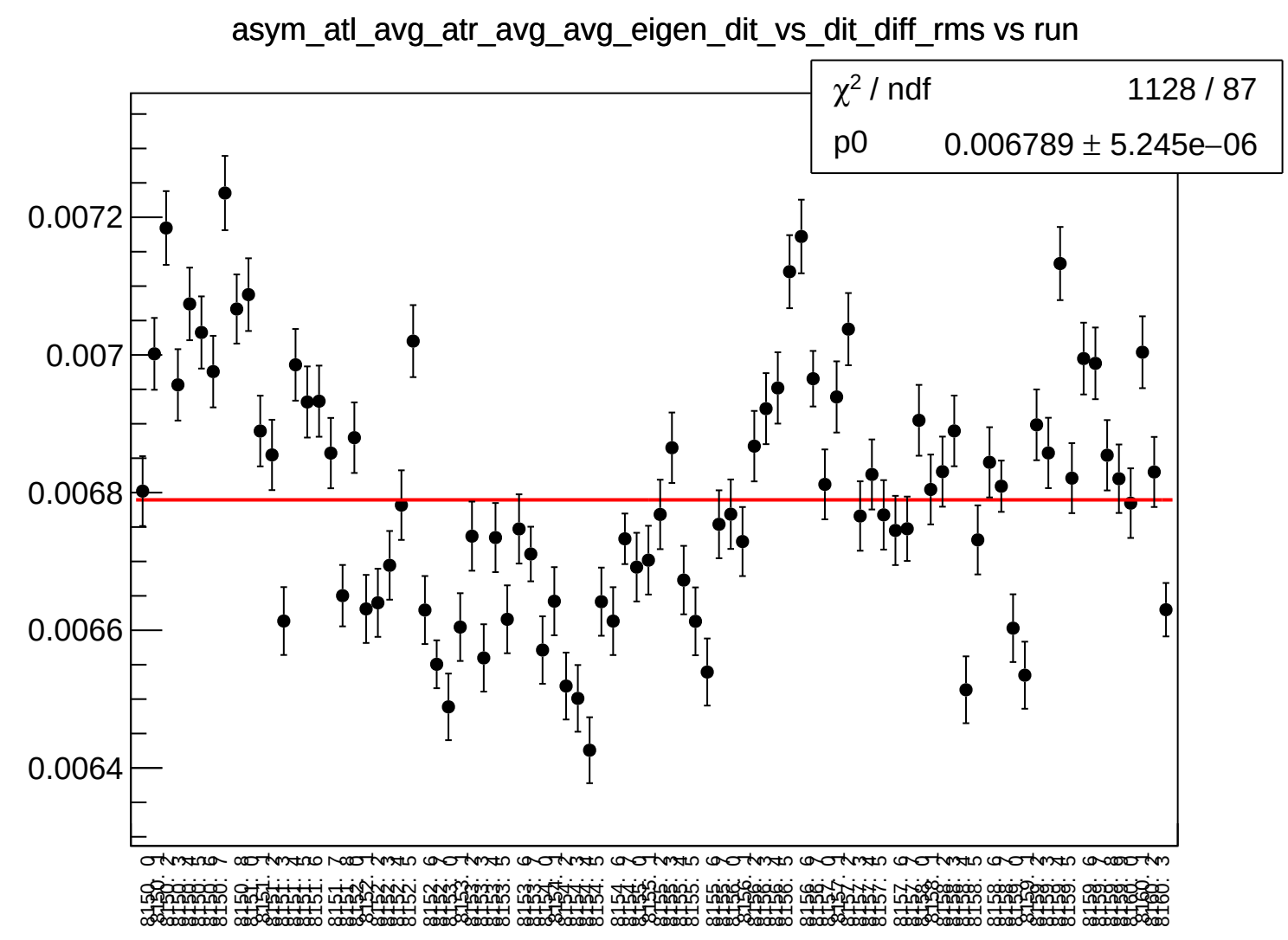

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.56 / 87
p0 −0.1826 ± 0.178
pull
Entries 88
Mean 34.9
Std Dev 0
pull1D
Entries 88
Mean 0.0163
Std Dev 1.009

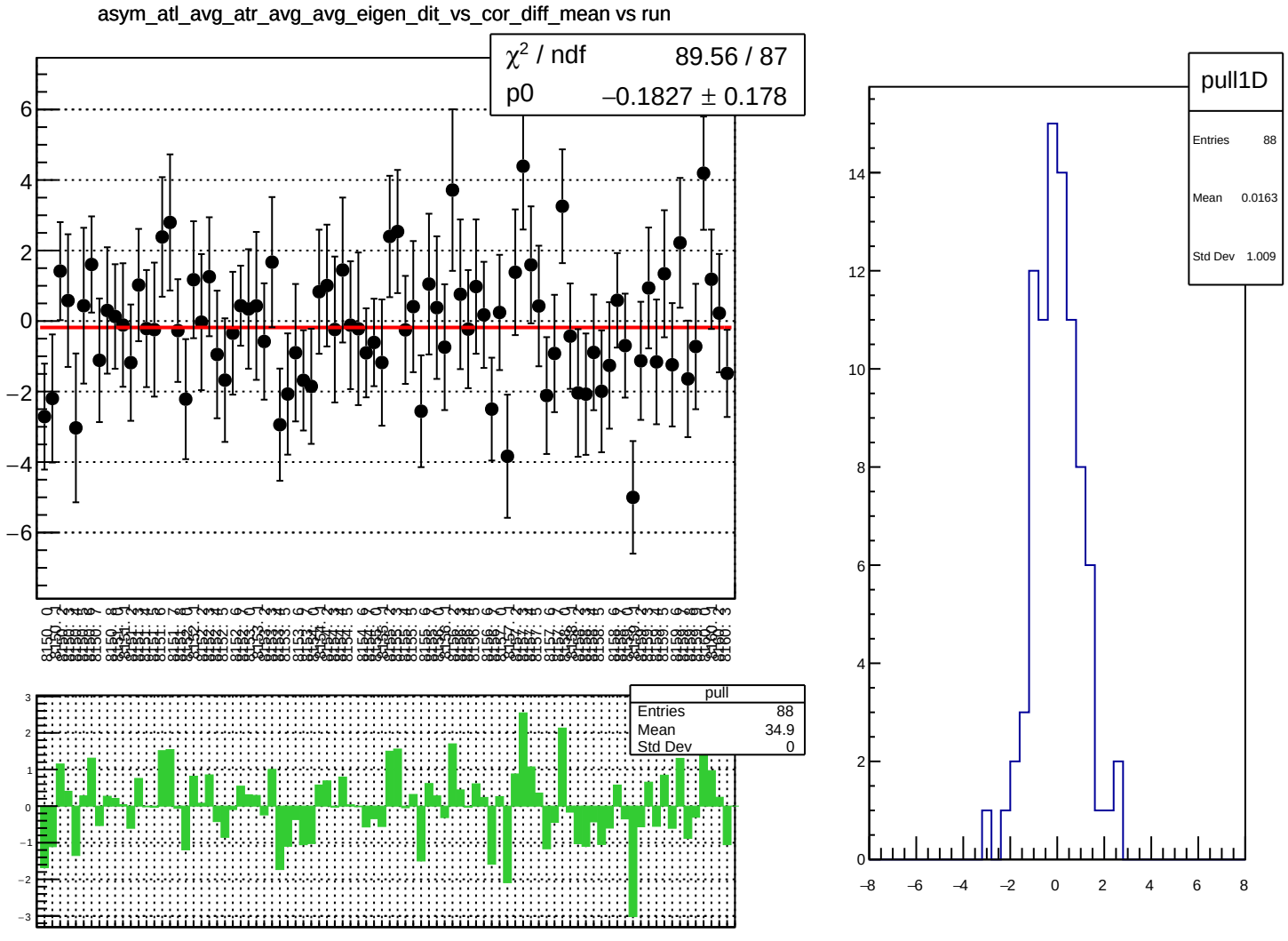

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.858e+04 / 87
p0 162.1 ± 0.1259
220
200
180
160
140
120

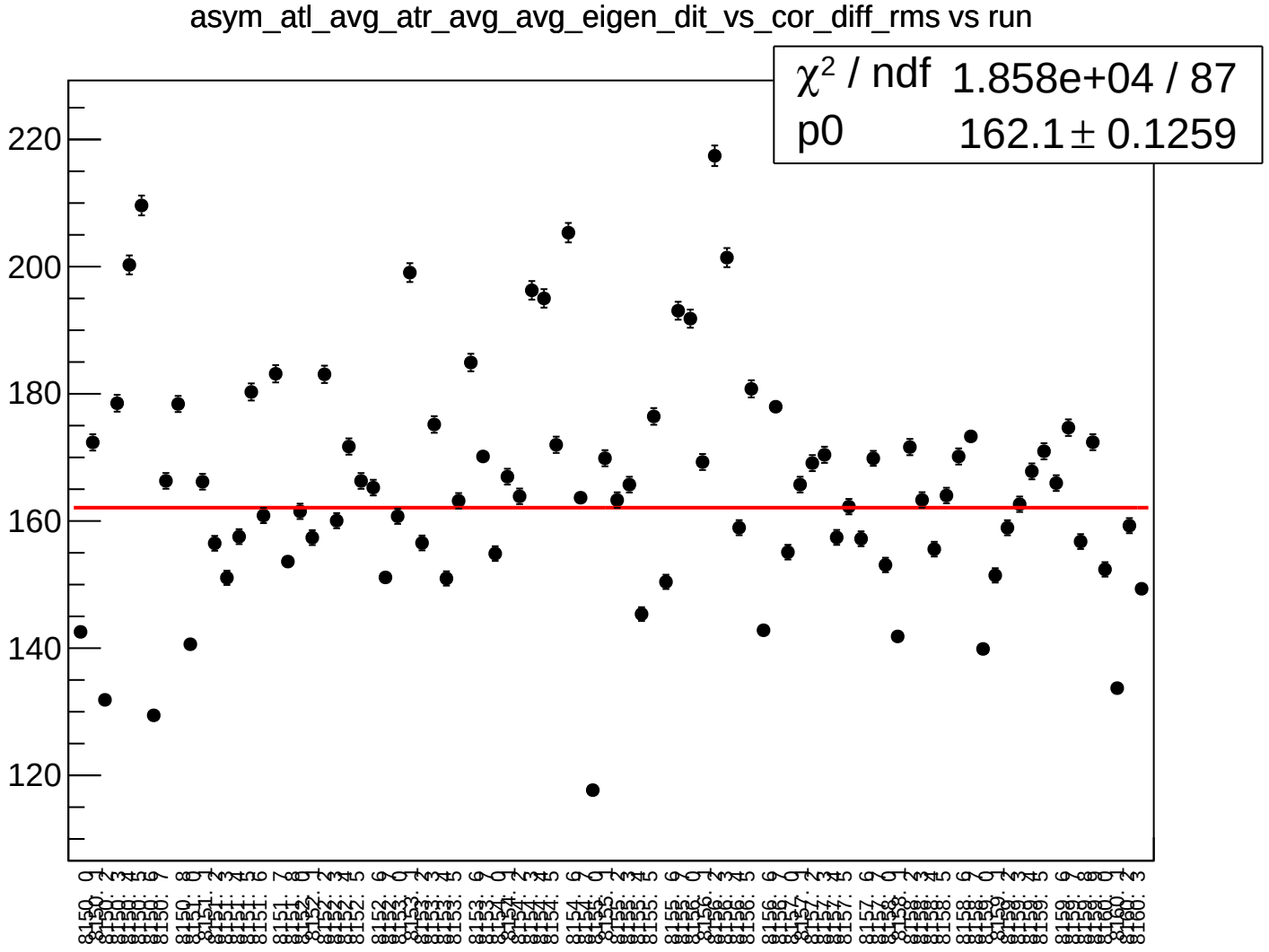

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.56 / 87
p0 −0.1826 ± 0.178
pull
Entries 88
Mean 34.9
Std Dev 0
pull1D
Entries 88
Mean 0.0163
Std Dev 1.009

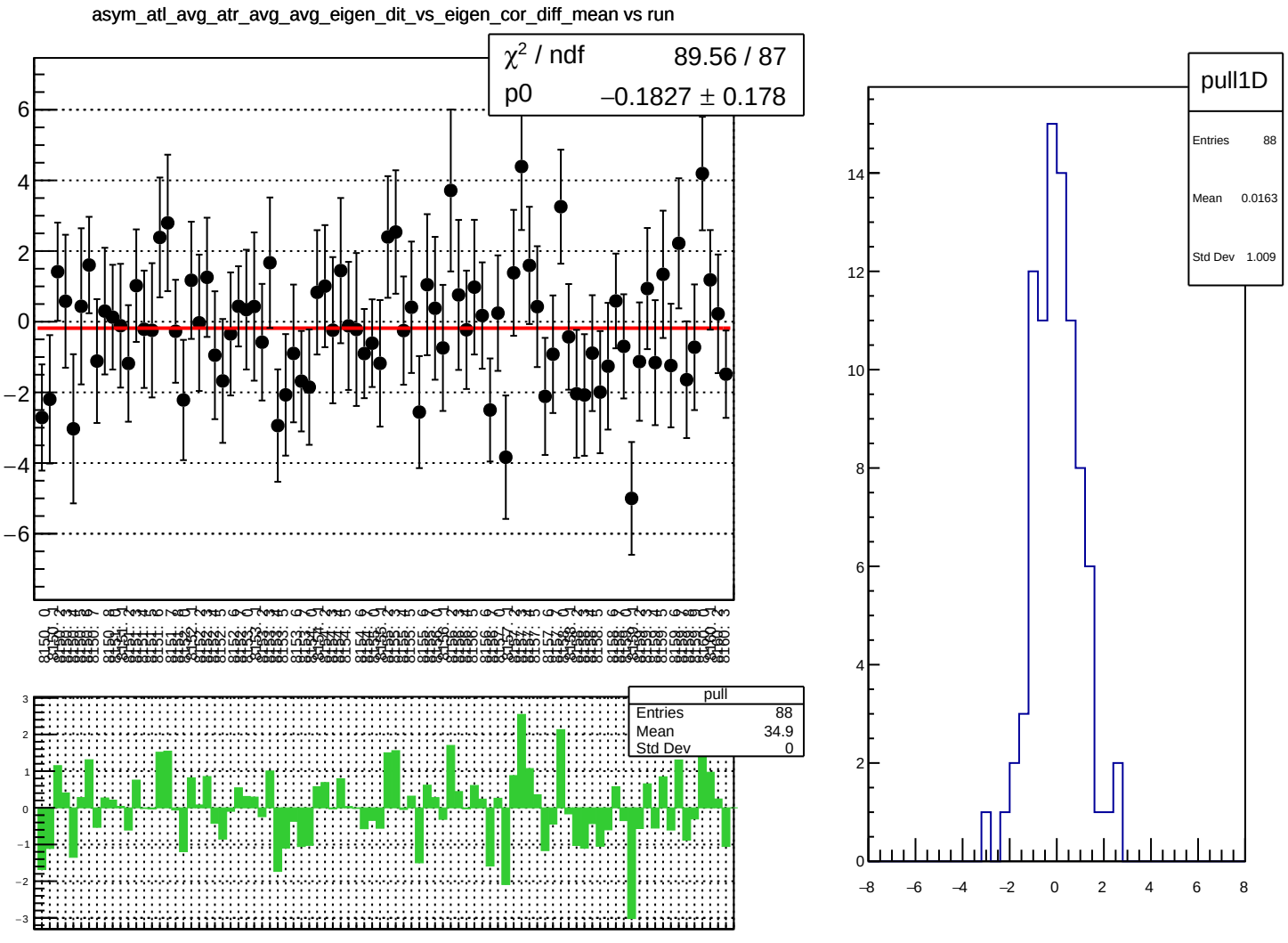

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.858e+04 / 87
p0 162.1 ± 0.1259
220
200
180
160
140
120

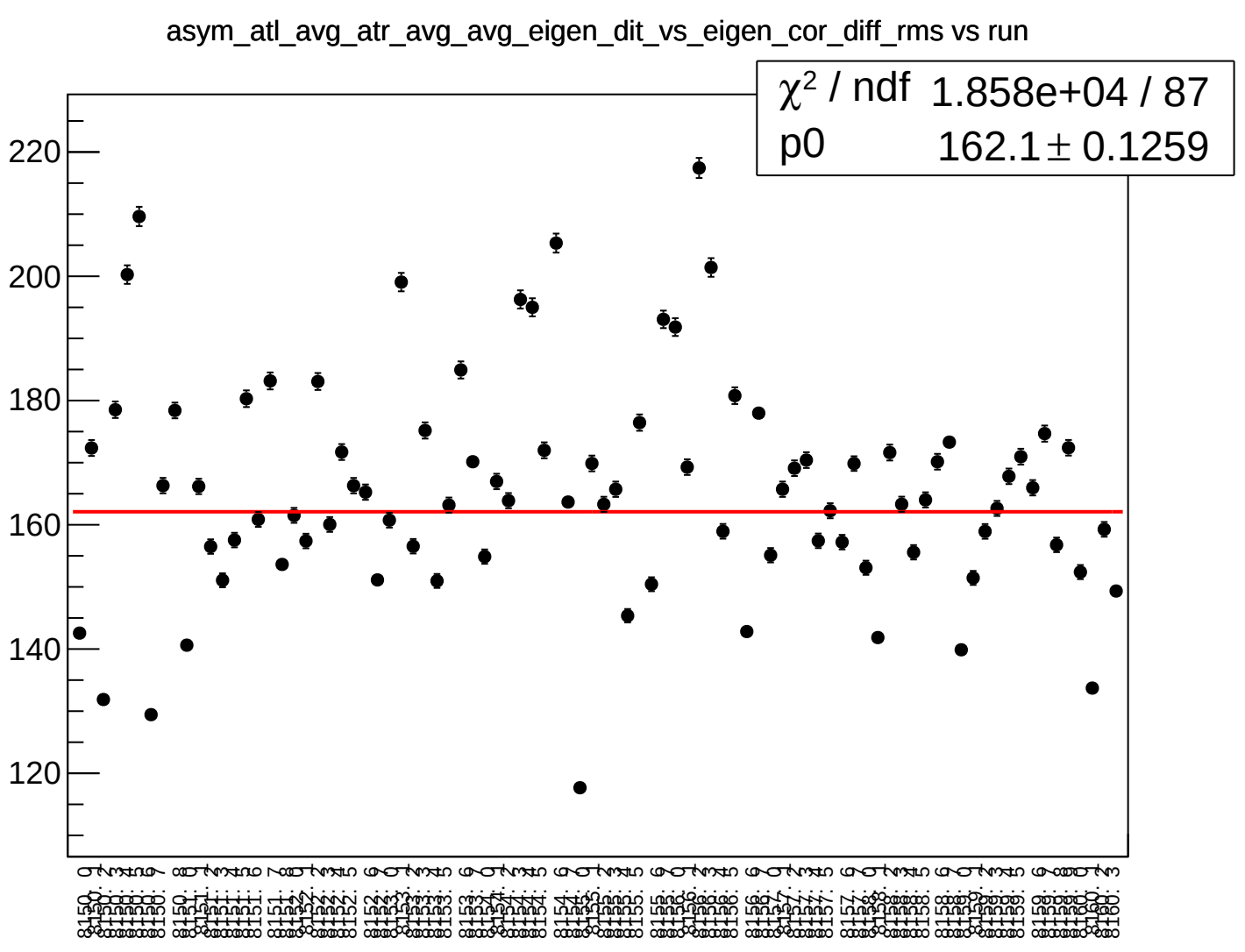

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.25 / 87
p0 −2.025e−05 ± 7.418e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 88
Mean 324.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001904
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

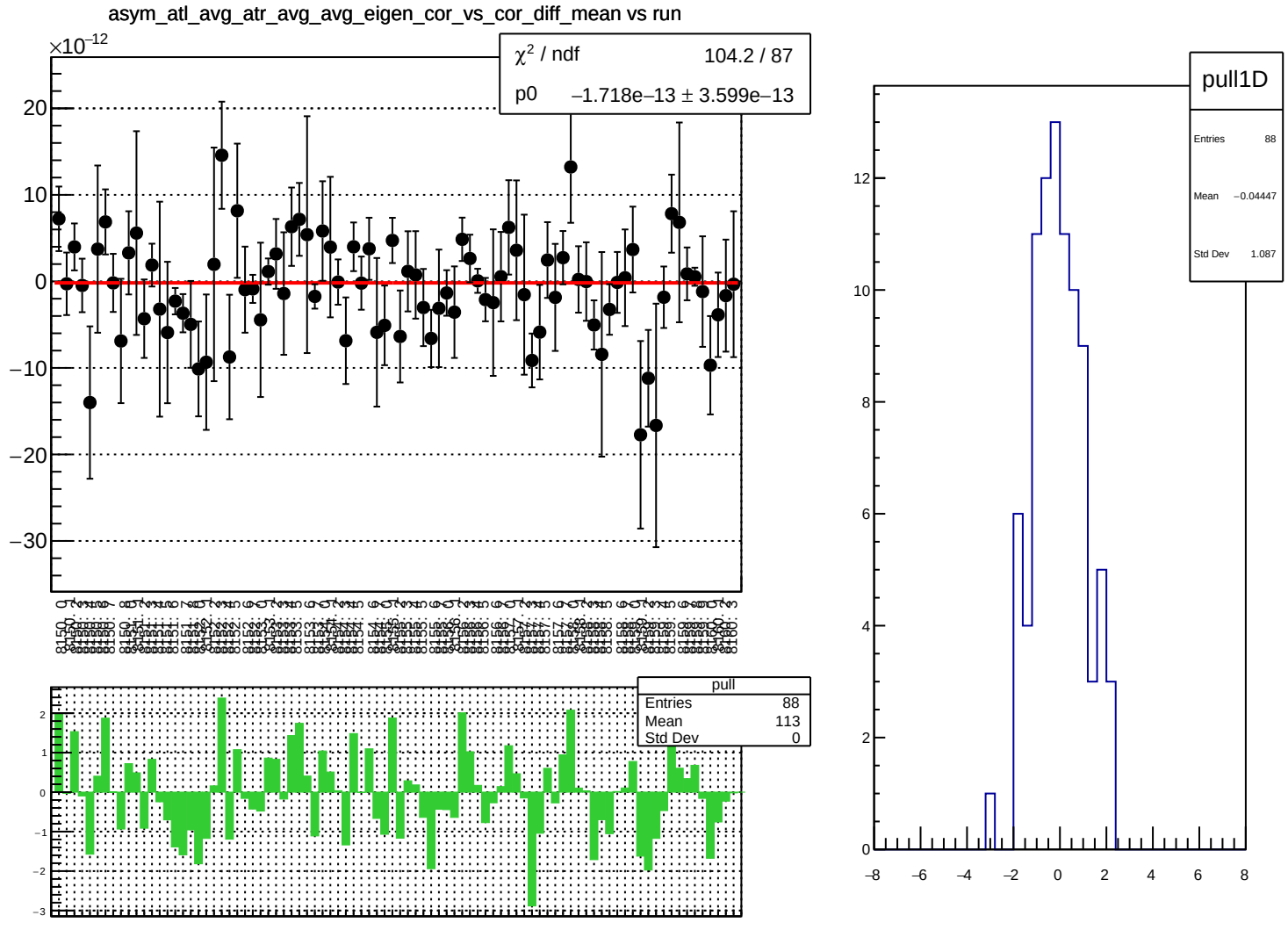

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1128 / 87
p0 0.006789 ± 5.245e−06
0.0072
0.007
0.0068
0.0066
0.0064

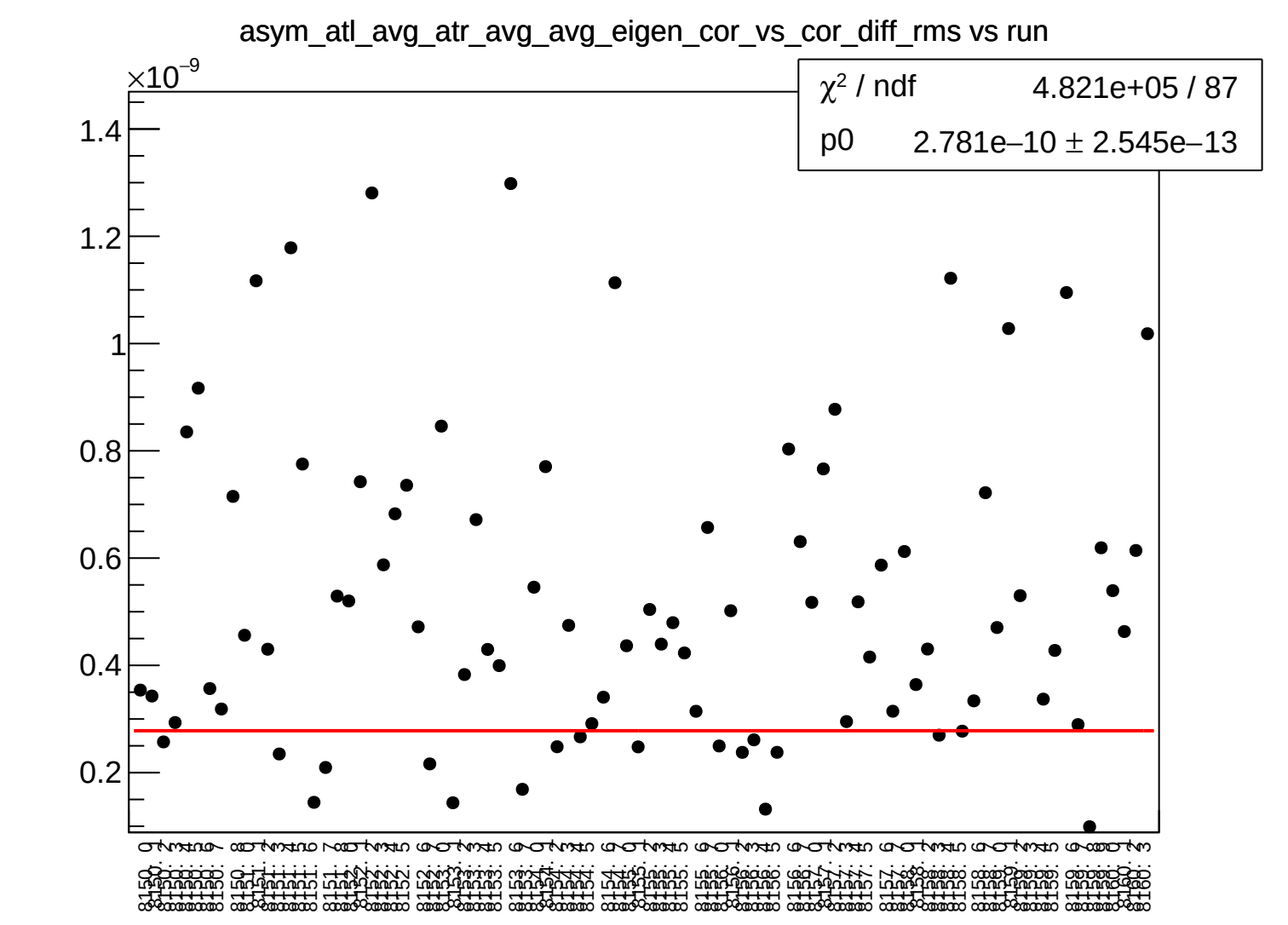

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.56 / 87
p0 −0.1827 ± 0.178
pull
Entries 88
Mean 34.9
Std Dev 0
pull1D
Entries 88
Mean 0.0163
Std Dev 1.009

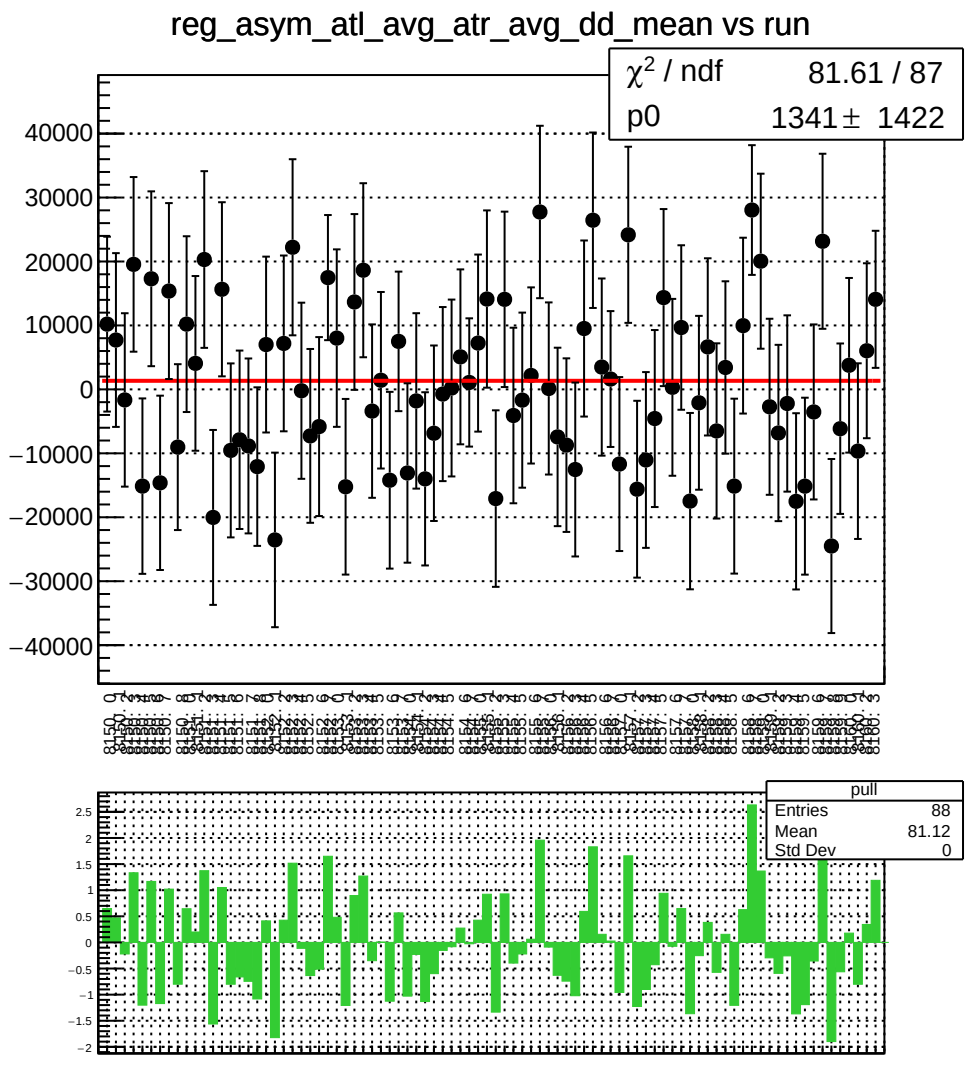

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.858e+04 / 87
p0 162.1 ± 0.1259
220
200
180
160
140
120

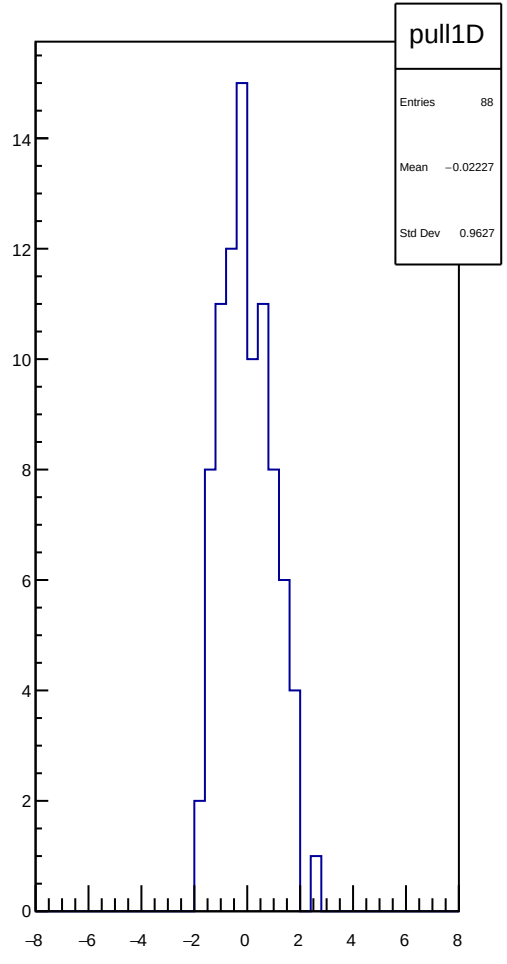

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.56 / 87
p0 −0.1827 ± 0.178
pull
Entries 88
Mean 34.9
Std Dev 0
pull1D
Entries 88
Mean 0.0163
Std Dev 1.009

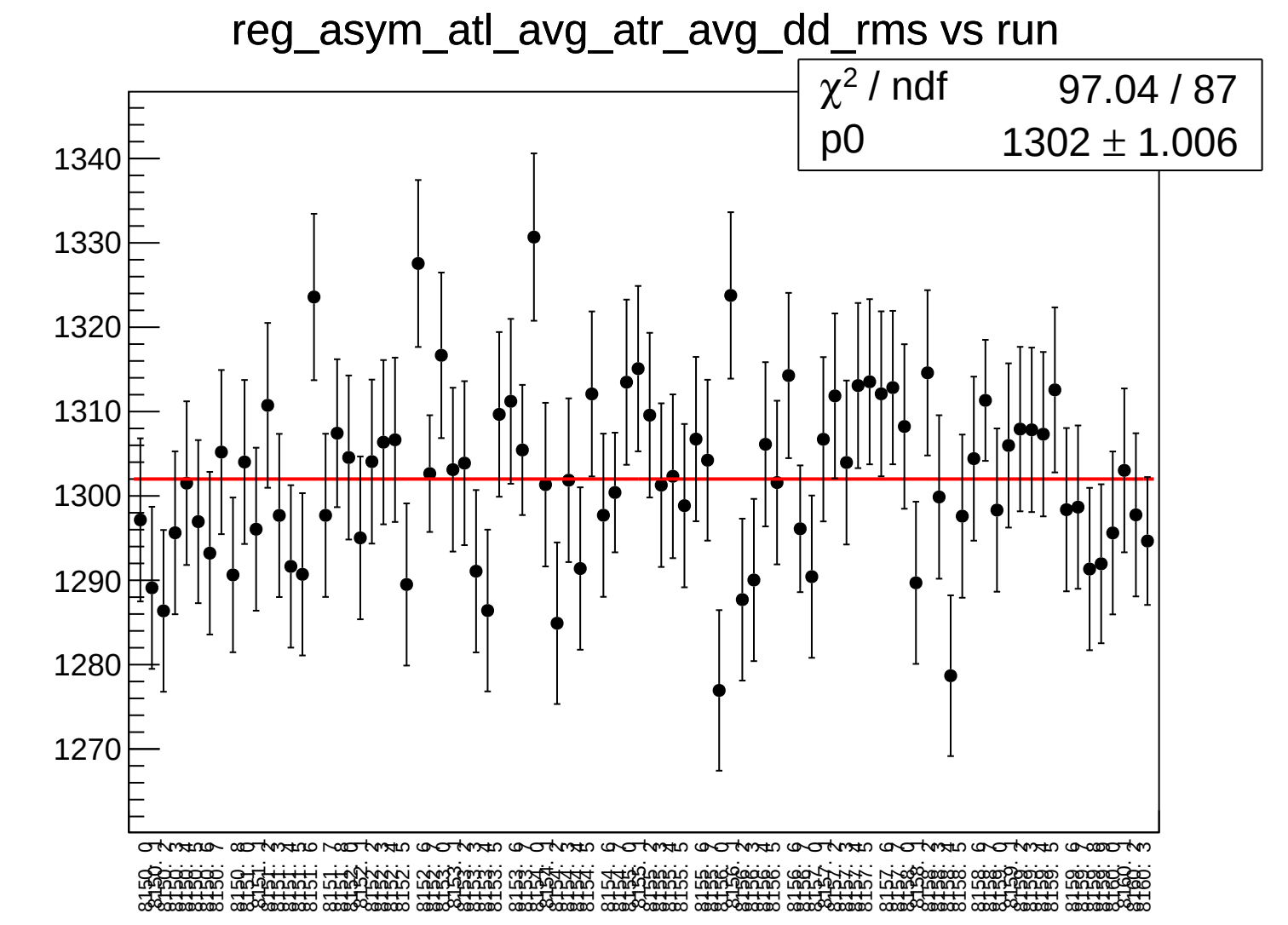

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.858e+04 / 87
p0 162.1 ± 0.1259
220
200
180
160
140
120

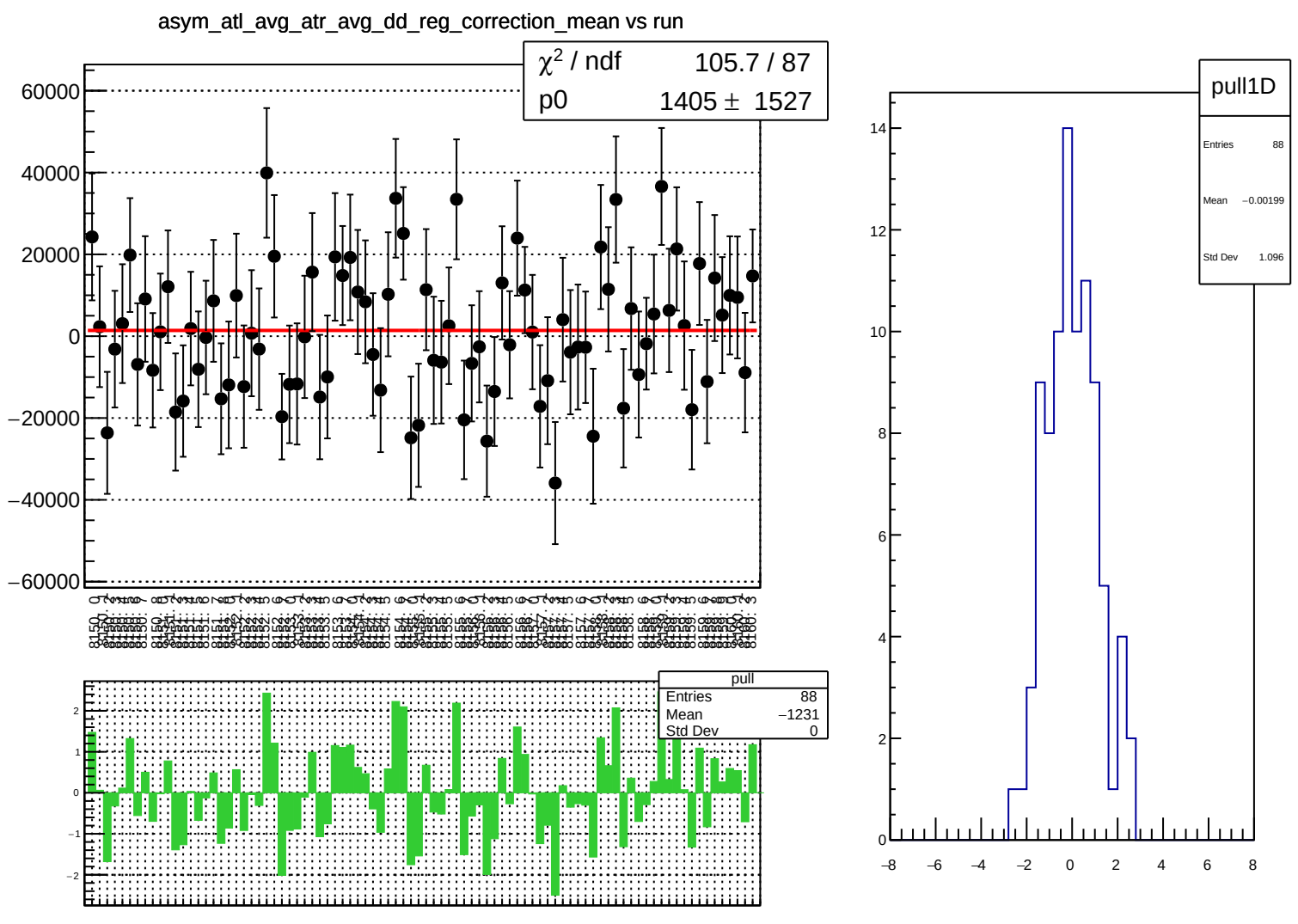

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.2 / 87
p0 −1.718e−13 ± 3.599e−13
pull
Entries 88
Mean 113
Std Dev 0
pull1D
Entries 88
Mean −0.04447
Std Dev 1.087

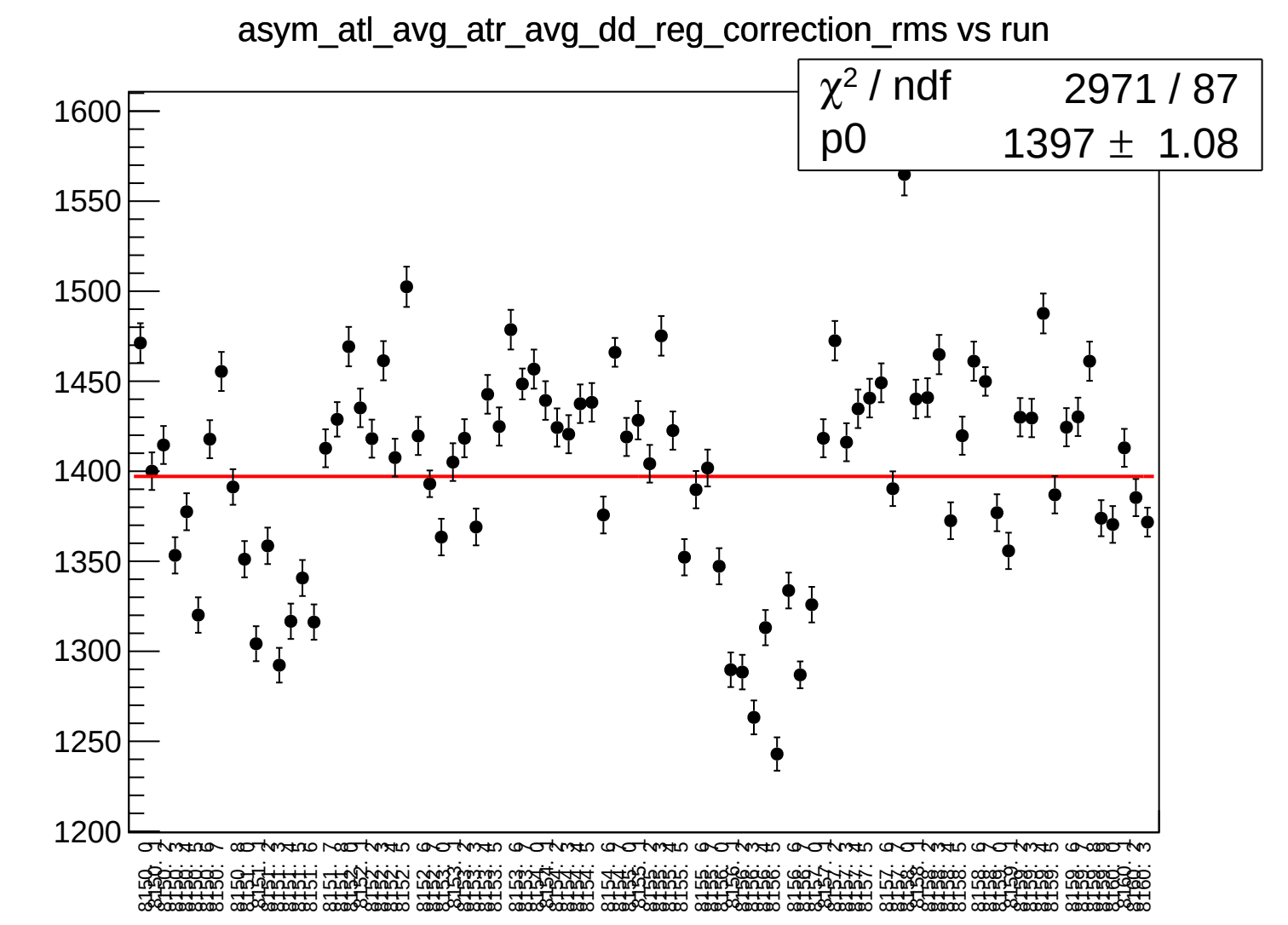

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.821e+05 / 87
p0 2.781e−10 ± 2.545e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

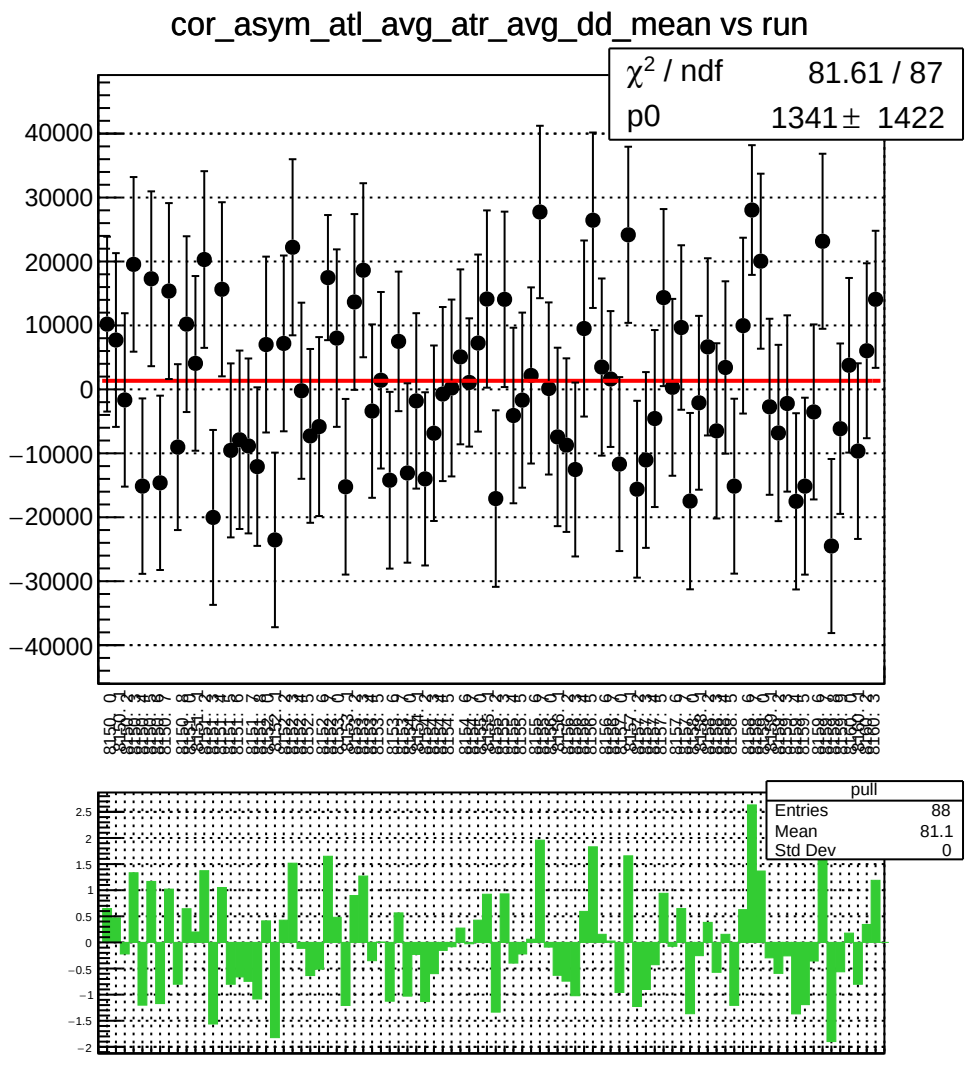

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 81.61 / 87
p0 1341 ± 1422
pull
Entries 88
Mean 81.12
Std Dev 0

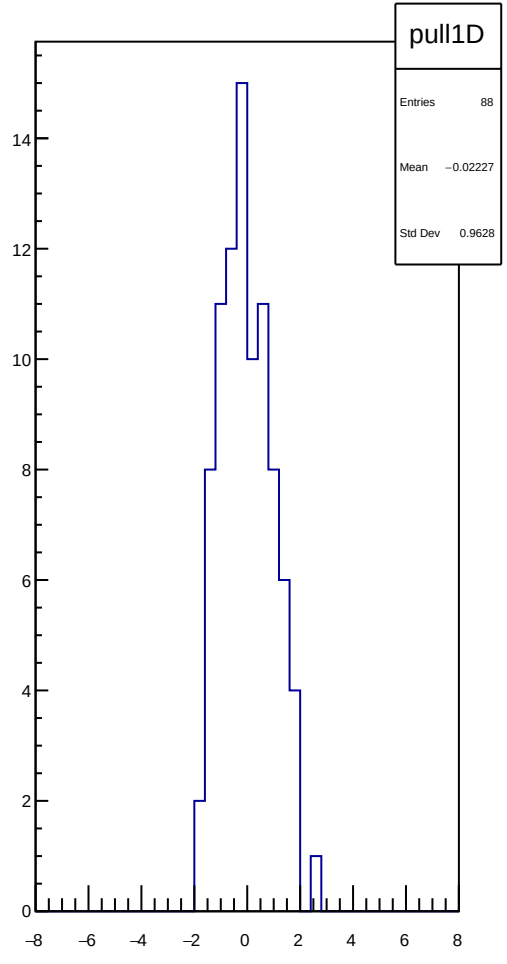

pull1D
Entries 88
Mean −0.02227
Std Dev 0.9627

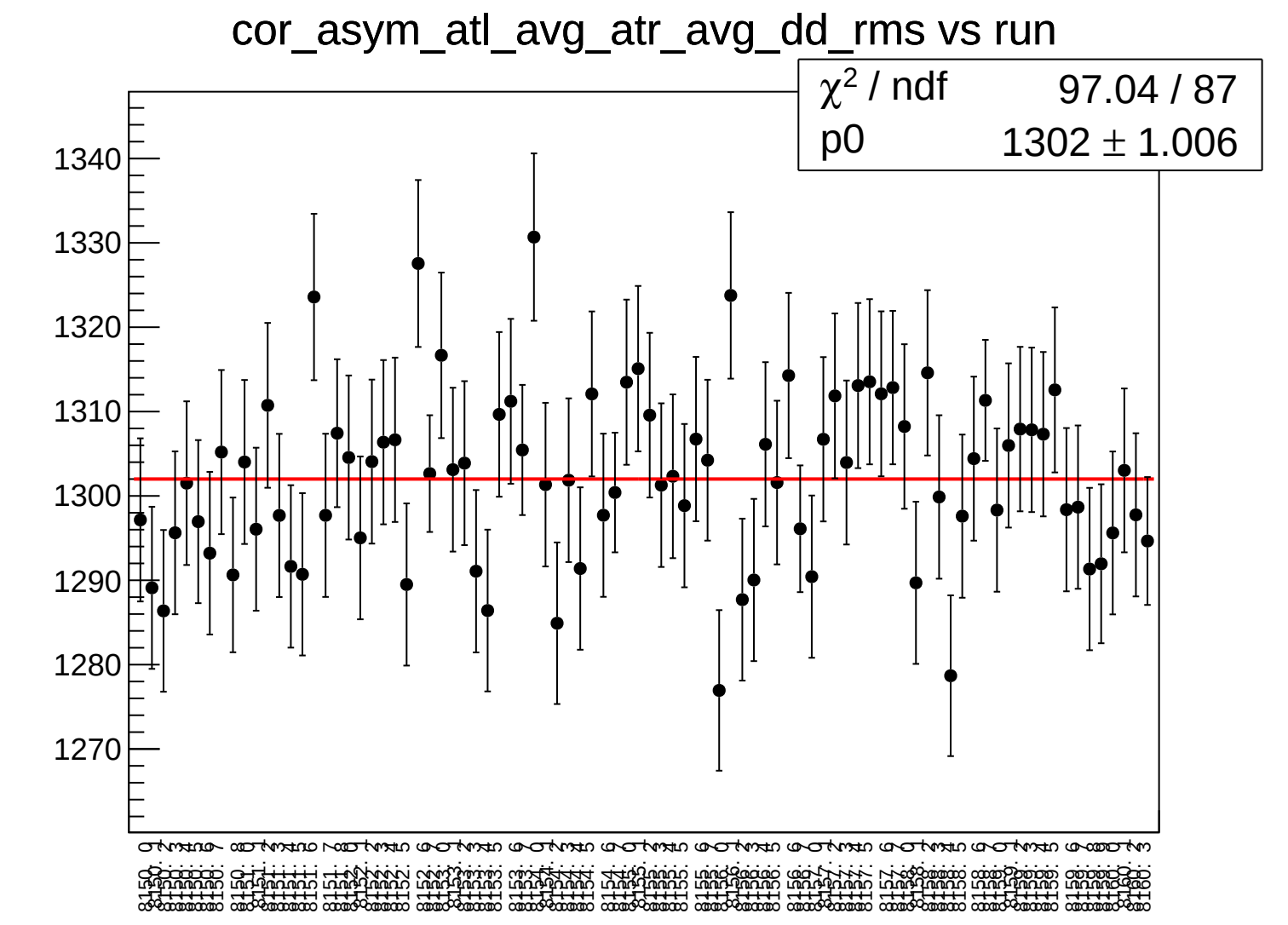

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 97.04 / 87
p0 1302 ± 1.006
1340
1330
1320
1310
1300
1290
1280
1270

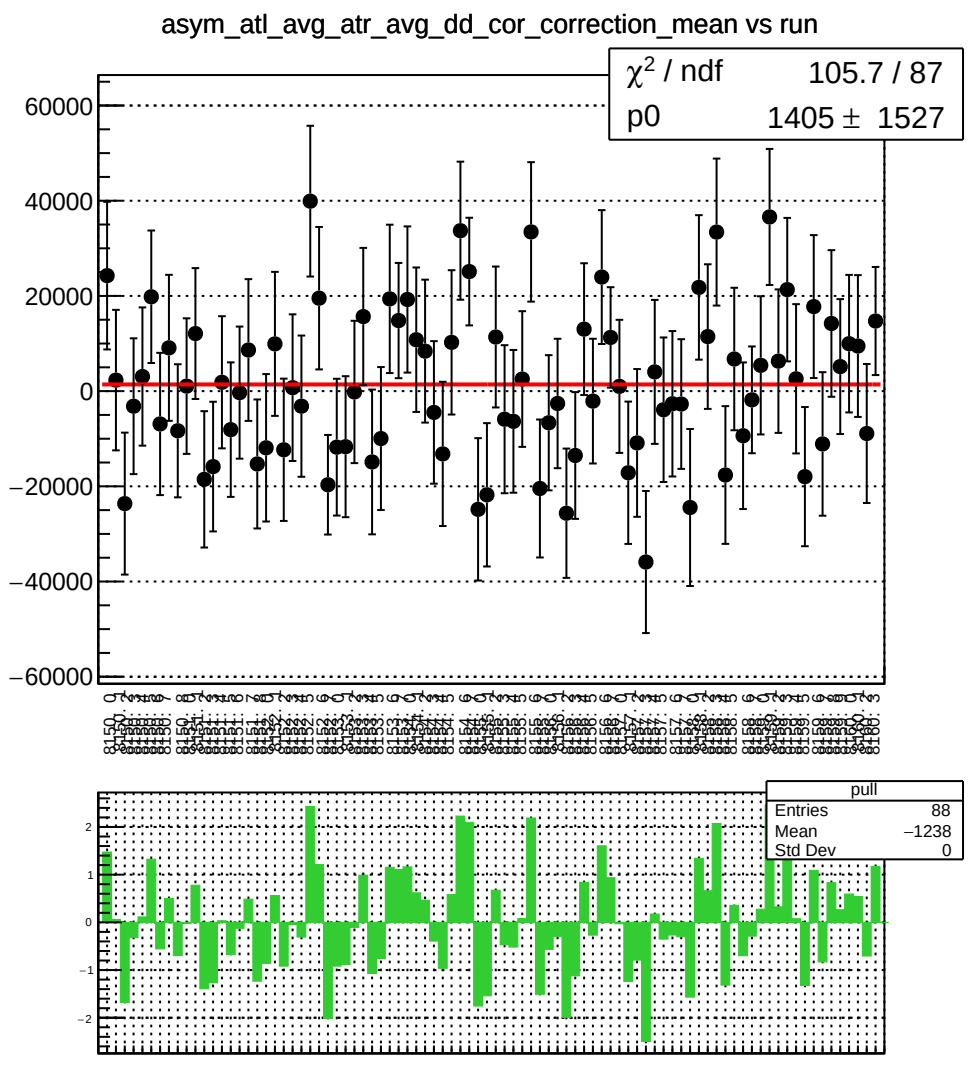

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 105.7 / 87
p0 1405 ± 1527
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1231
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00199
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

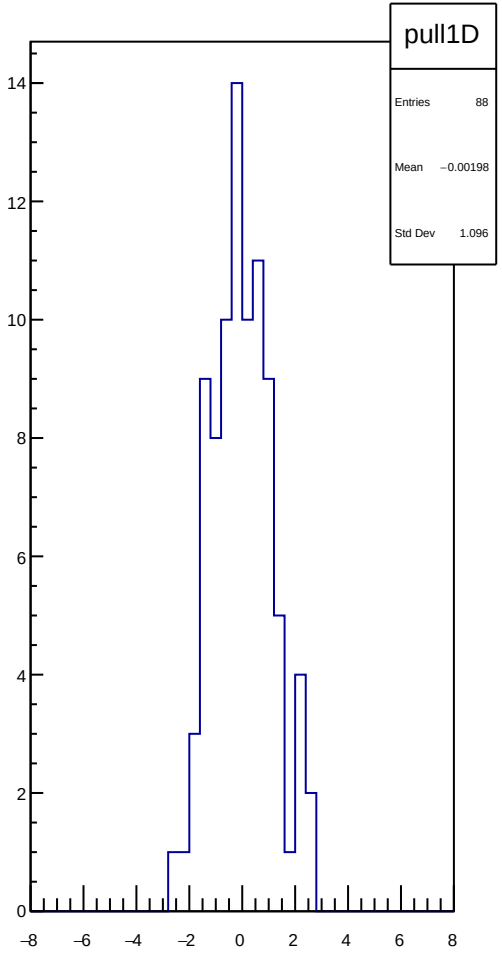

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 2971 / 87
p0 1397 ± 1.08
1600
1550
1500
1450
1400
1350
1300
1250
1200

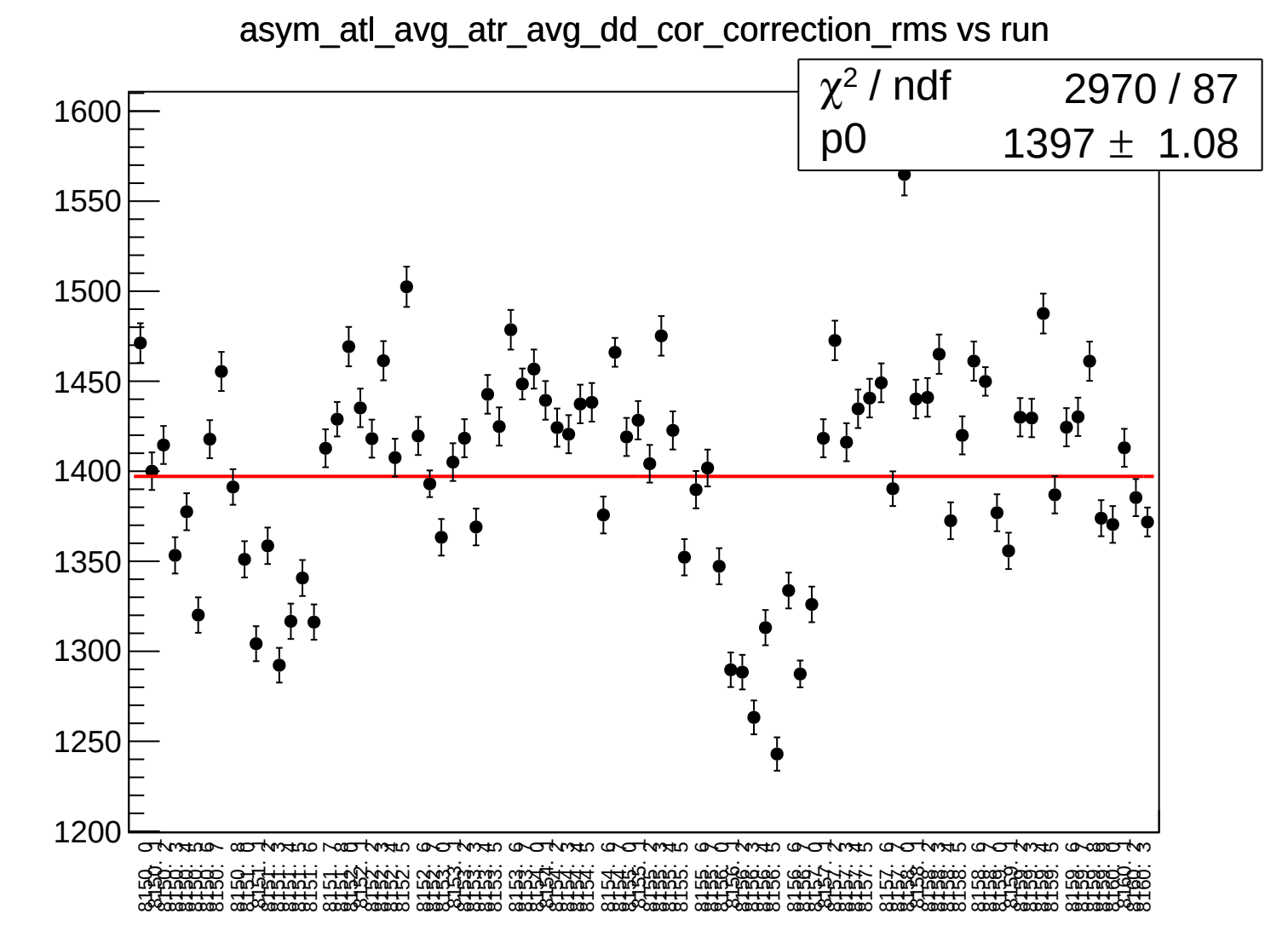

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 81.61 / 87
p0 1341 ± 1422
pull
Entries 88
Mean 81.1
Std Dev 0

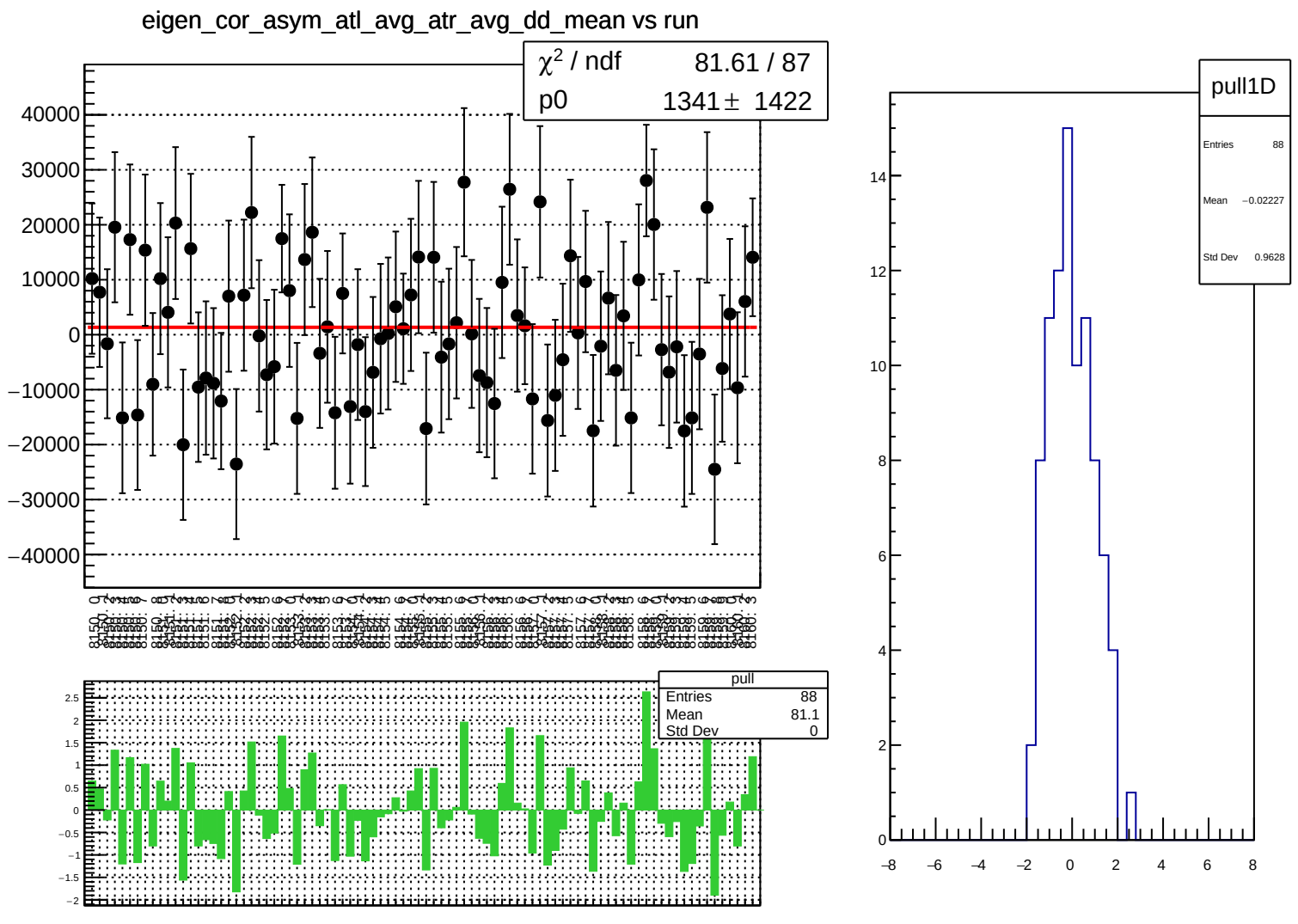

pull1D
Entries 88
Mean −0.02227
Std Dev 0.9628

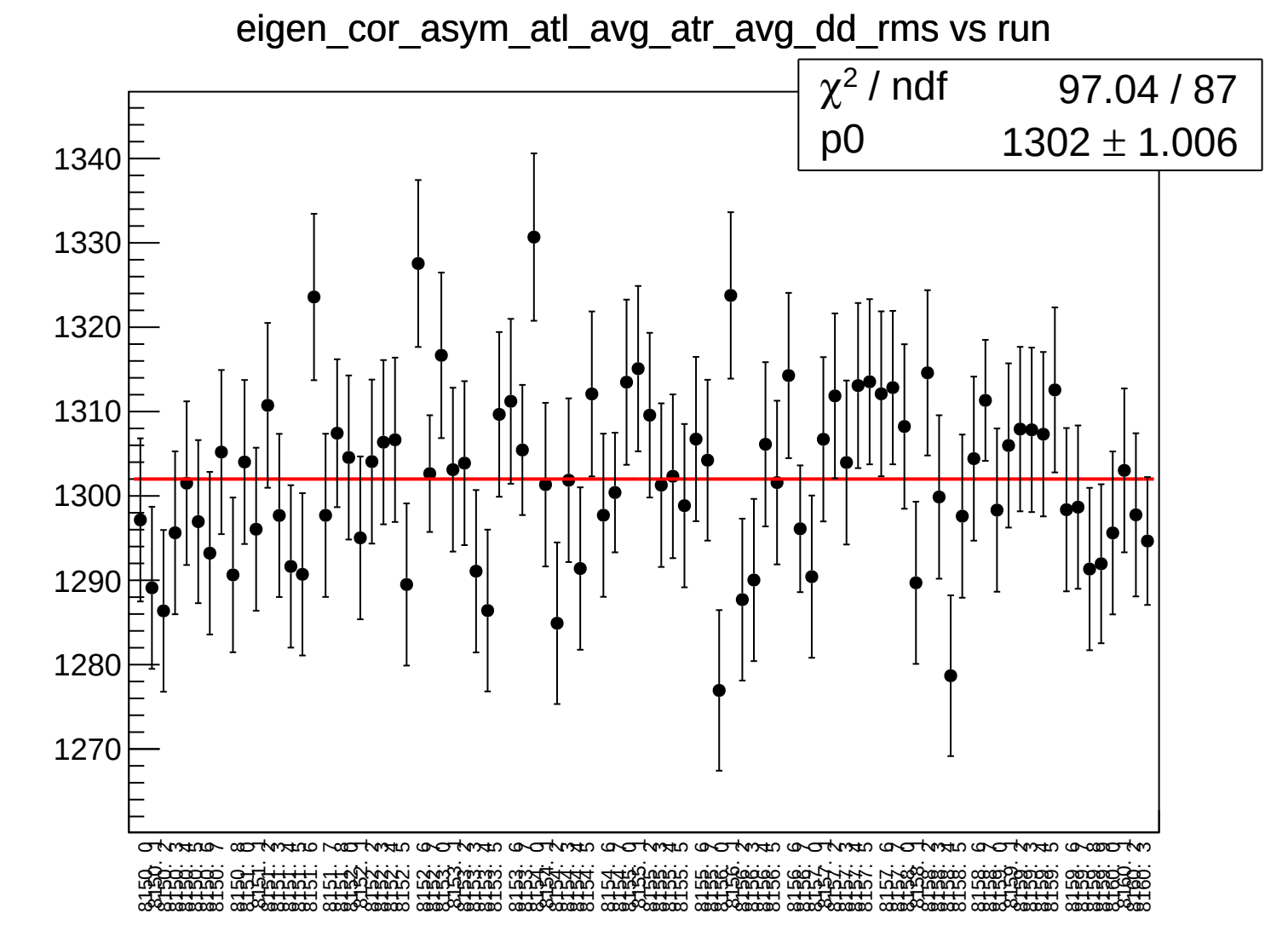

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 97.04 / 87
p0 1302 ± 1.006
1340
1330
1320
1310
1300
1290
1280
1270

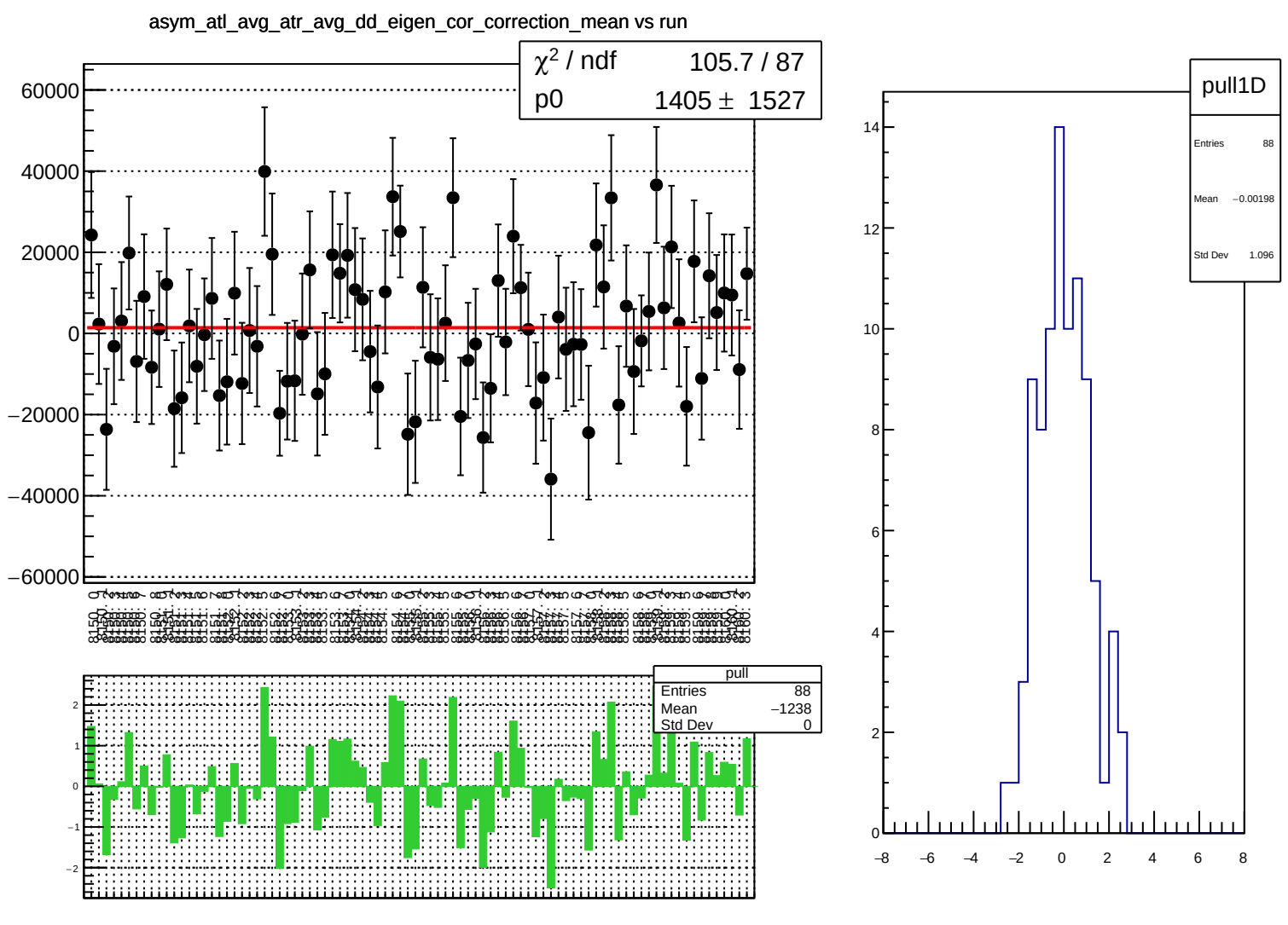

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 105.7 / 87
p0 1405 ± 1527
pull
Entries 88
Mean −1238
Std Dev 0

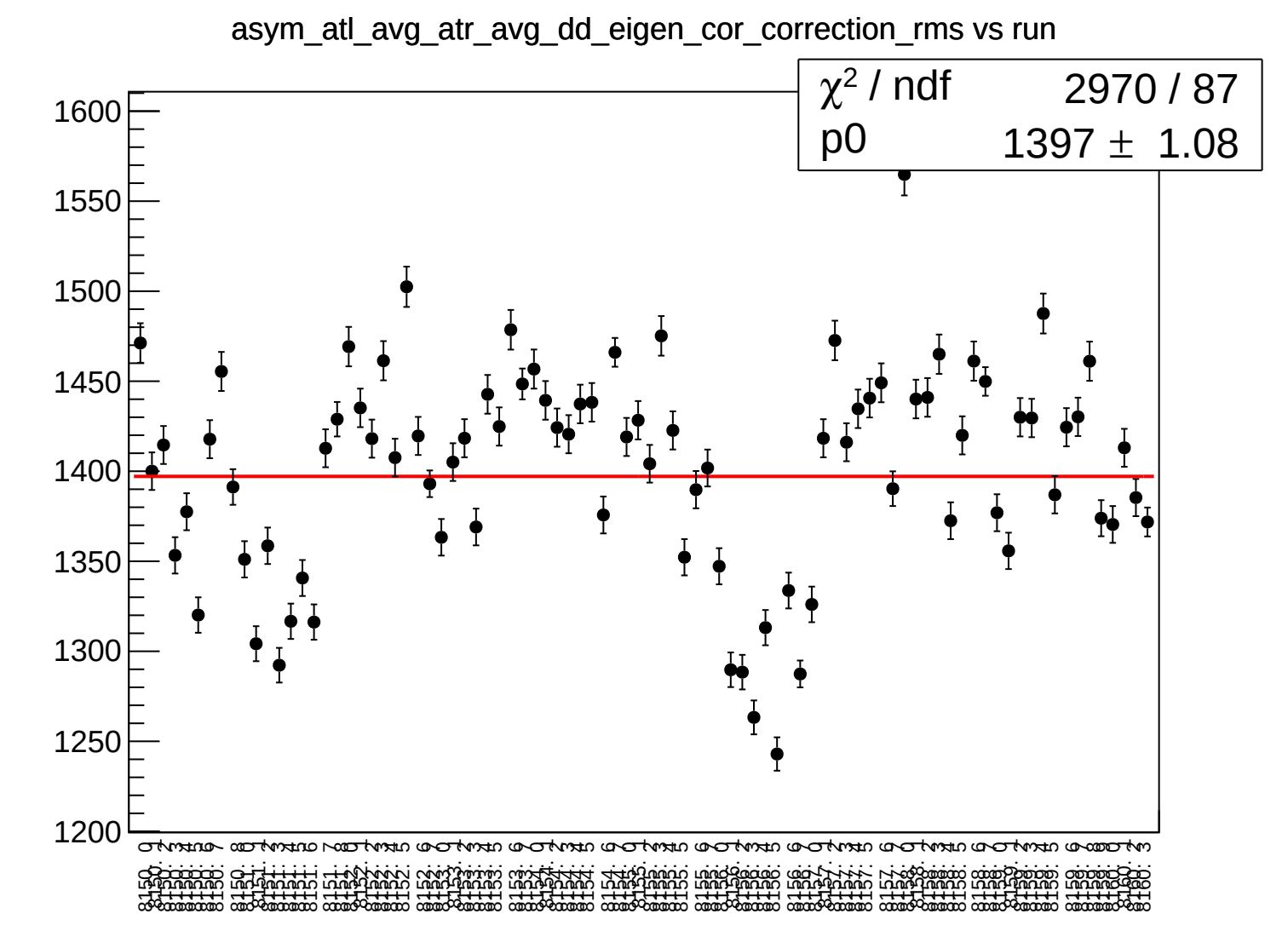

pull1D
Entries 88
Mean −0.00198
Std Dev 1.096

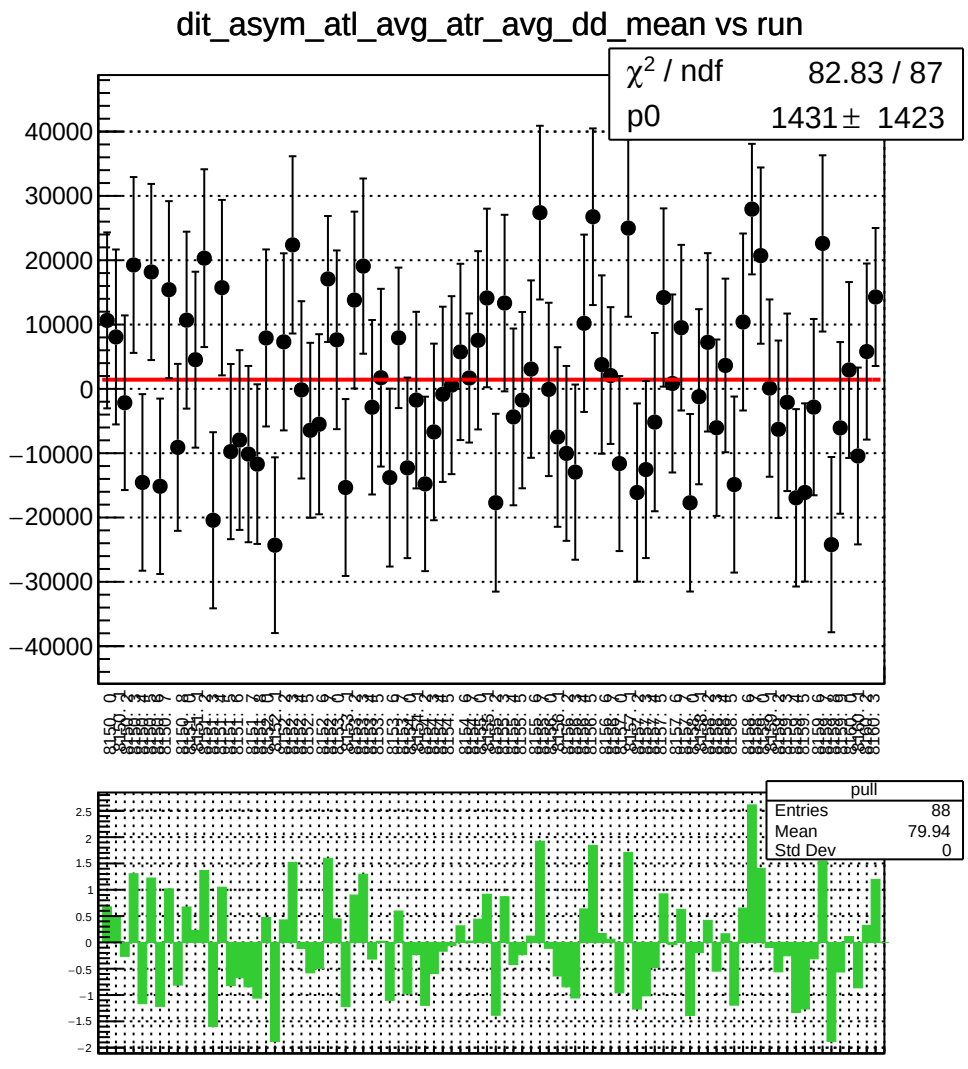

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 2970 / 87
p0 1397 ± 1.08
1600
1550
1500
1450
1400
1350
1300
1250
1200

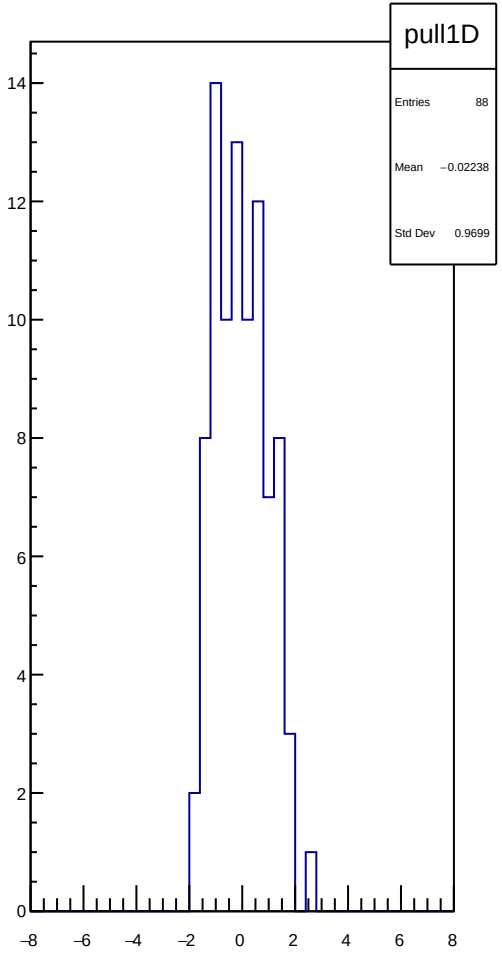

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 81.61 / 87
p0 1341 ± 1422
pull
Entries 88
Mean 81.1
Std Dev 0
pull1D
Entries 88
Mean −0.02227
Std Dev 0.9628

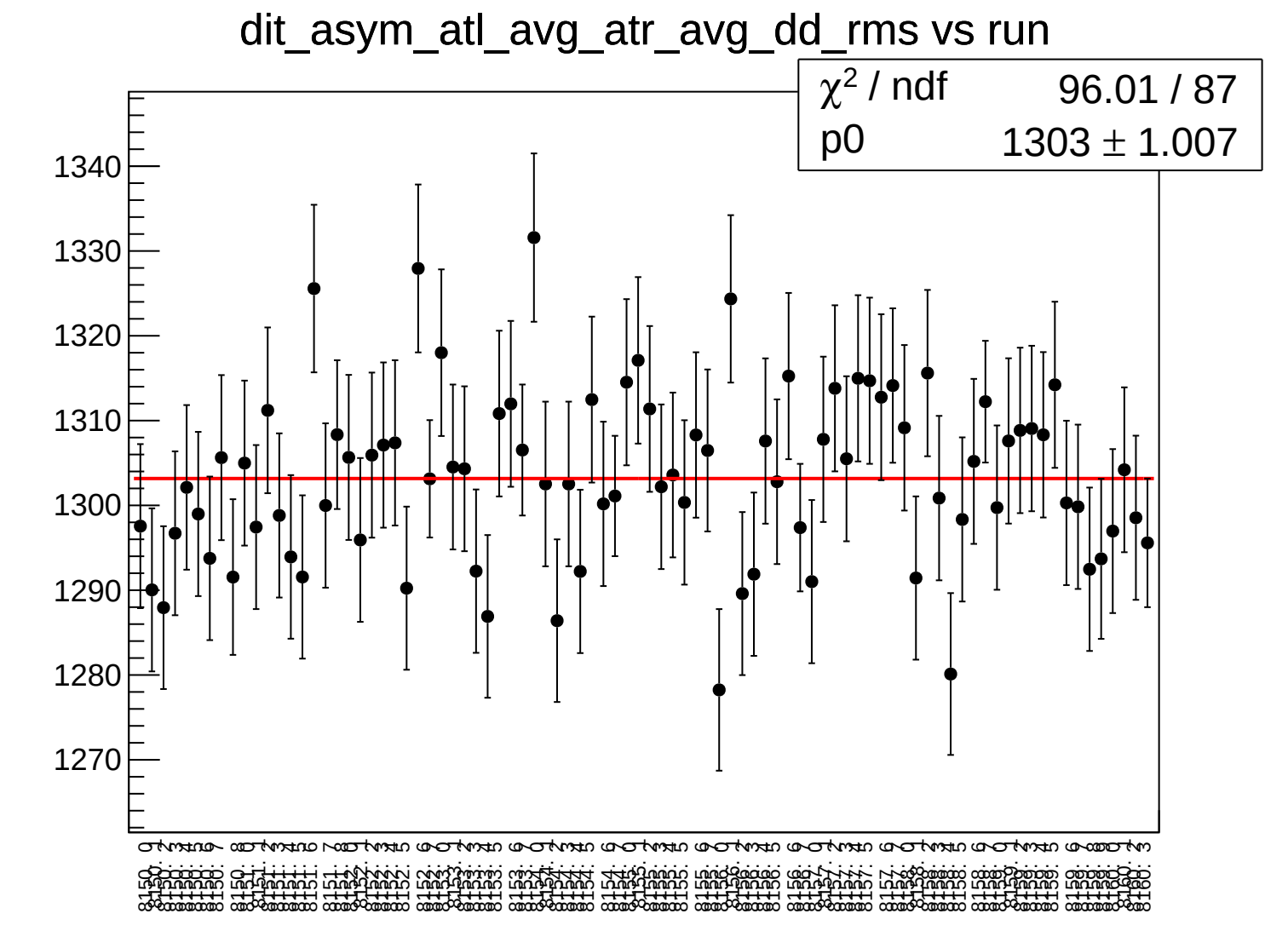

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 97.04 / 87
p0 1302 ± 1.006
1340
1330
1320
1310
1300
1290
1280
1270

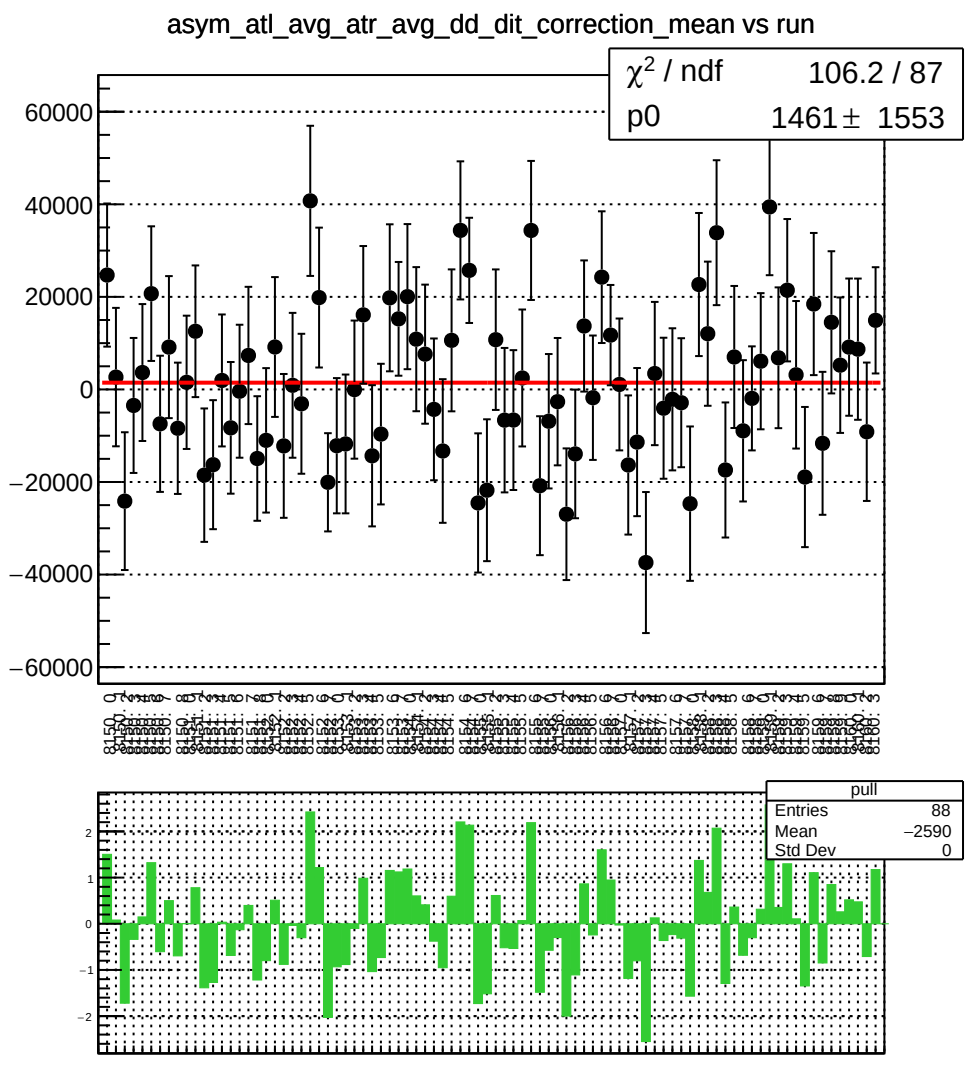

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.7 / 87
p0 1405 ± 1527
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1238
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00198
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

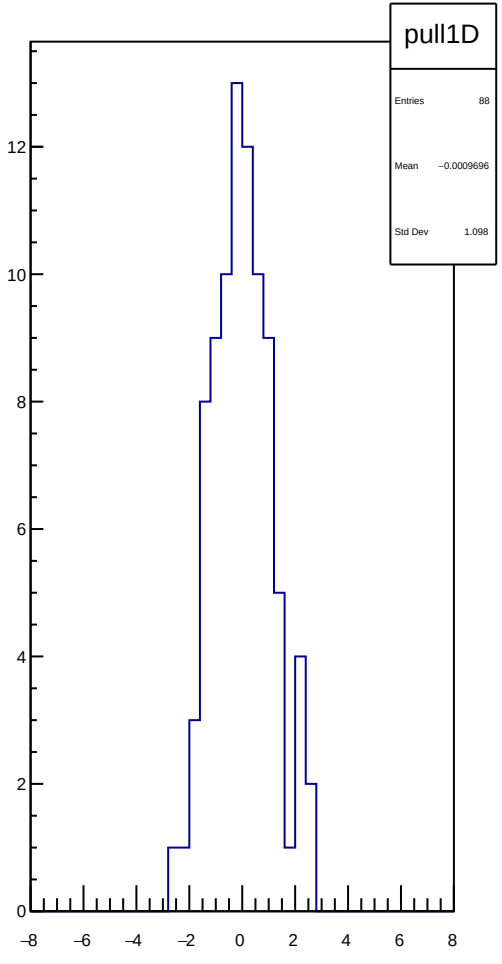

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2970 / 87
p0 1397 ± 1.08
1600
1550
1500
1450
1400
1350
1300
1250
1200

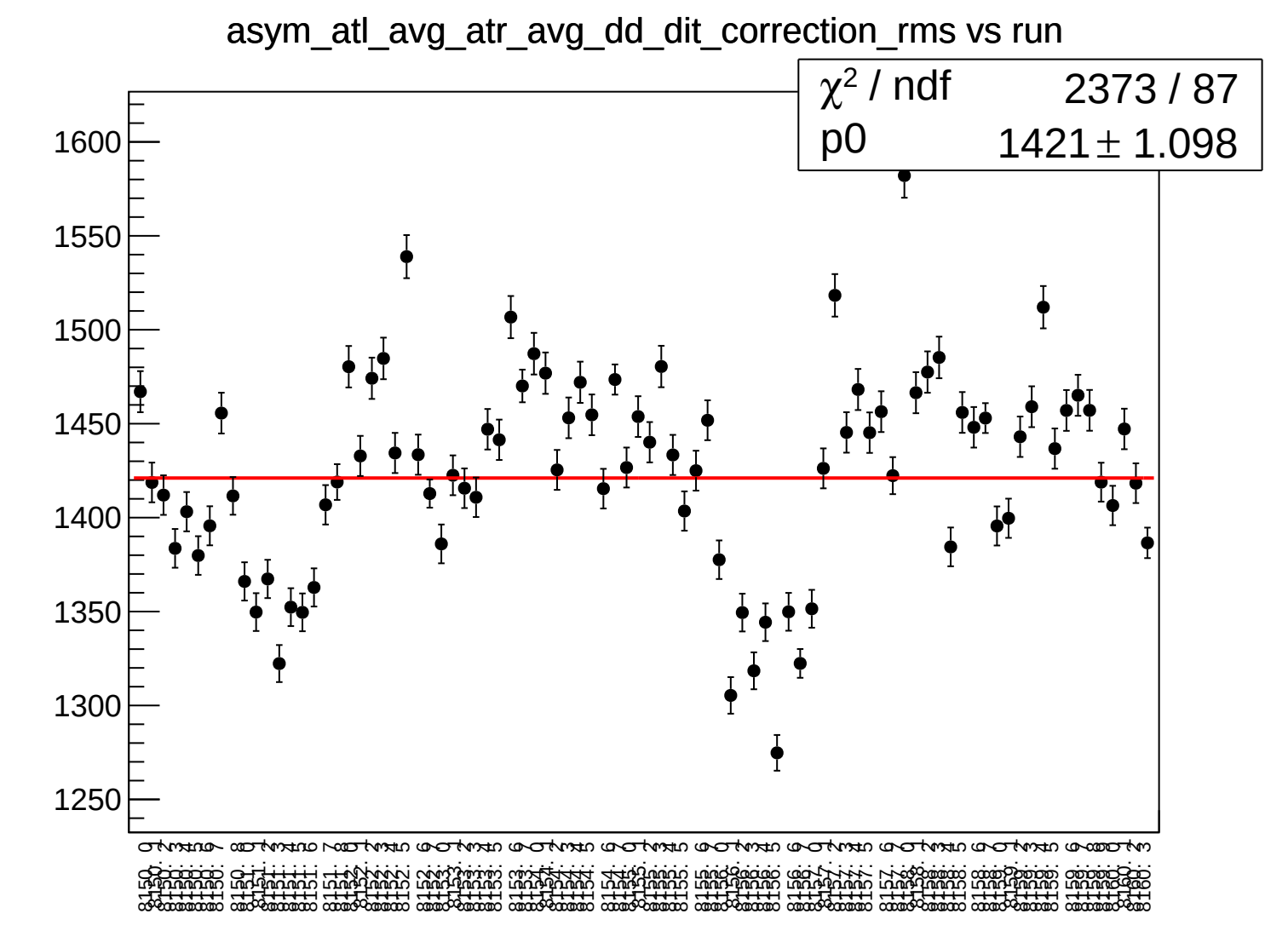

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 82.83 / 87
p0 1431 ± 1423
pull
Entries 88
Mean 79.94
Std Dev 0

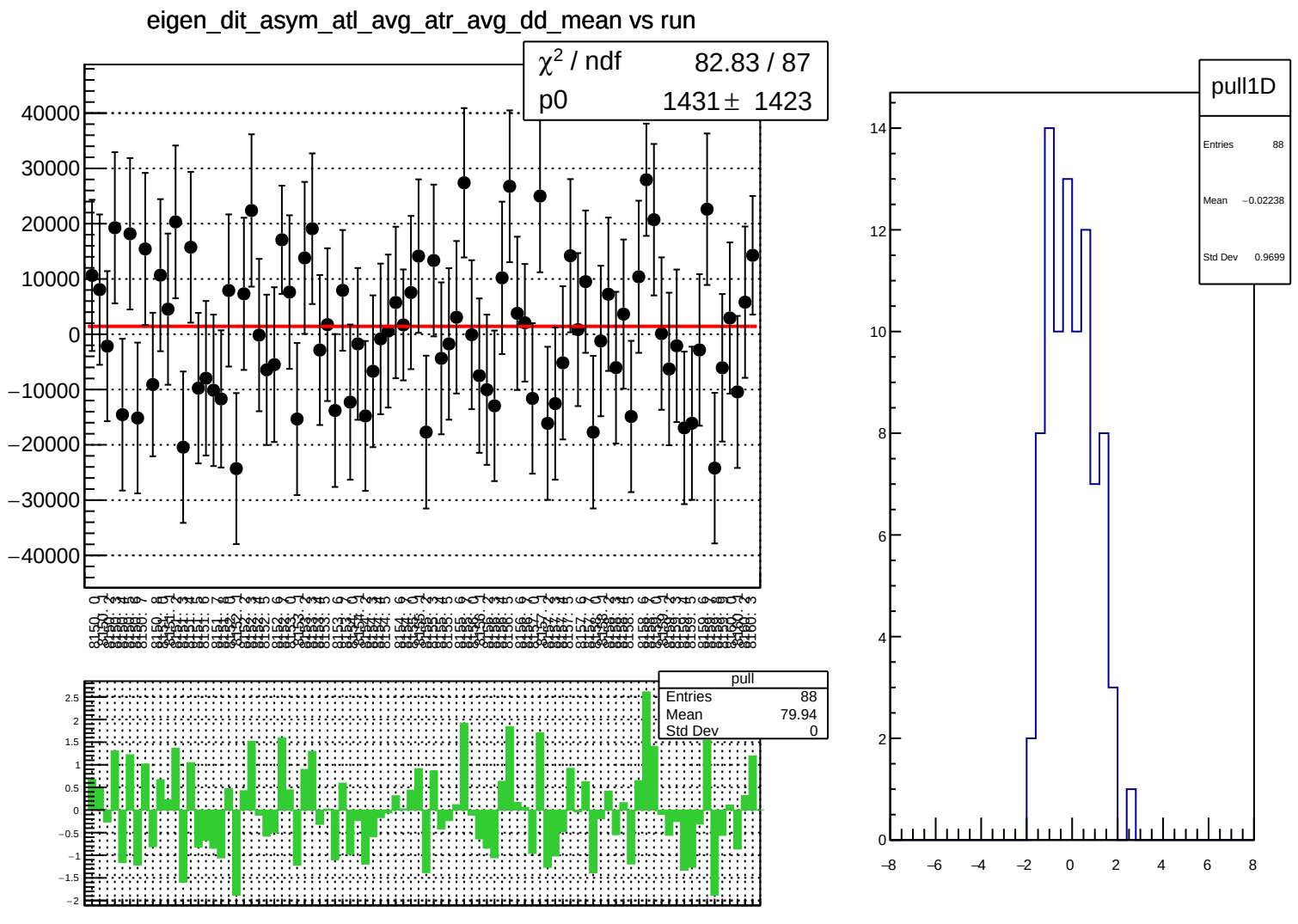

pull1D
Entries 88
Mean −0.02238
Std Dev 0.9699

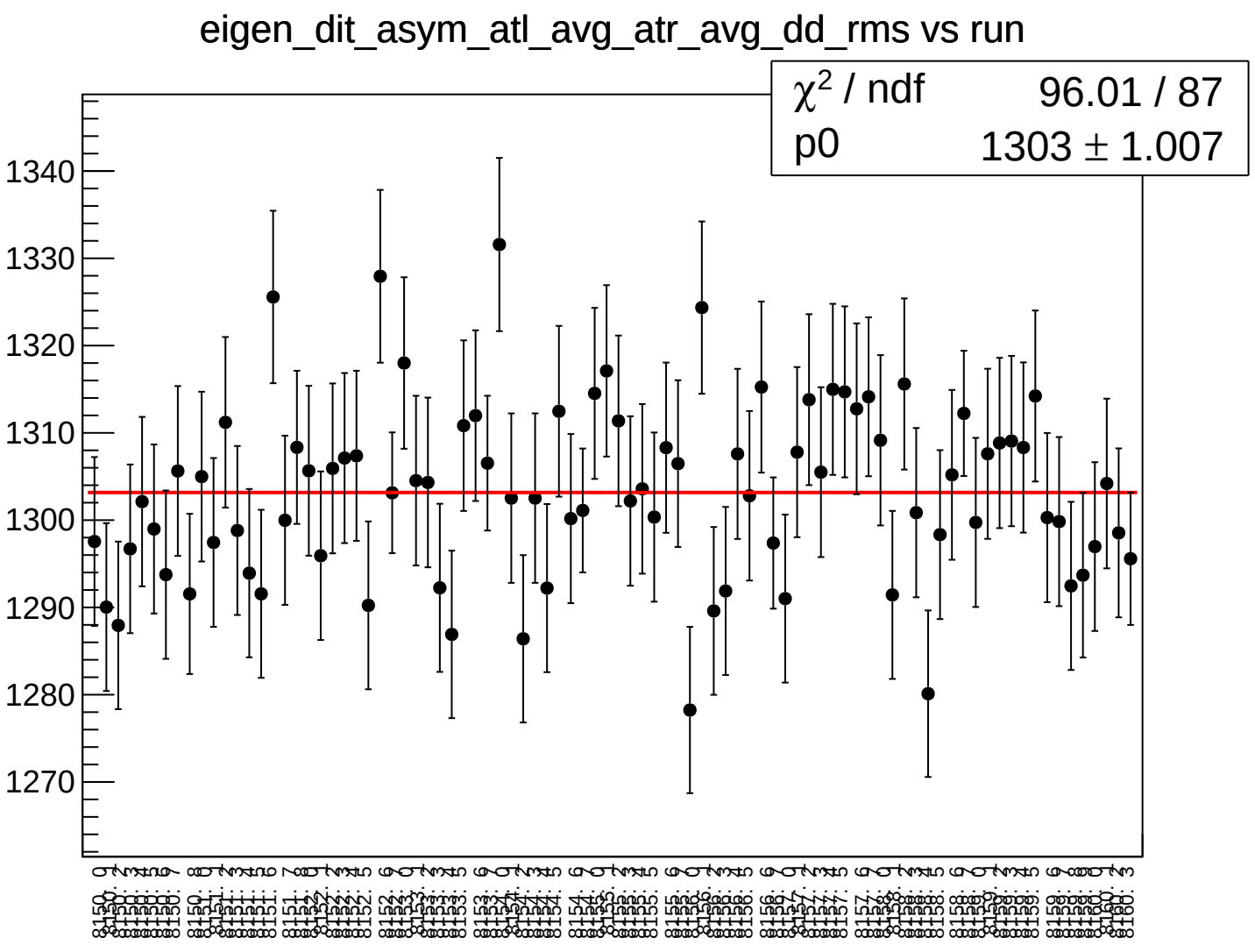

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 96.01 / 87
p0 1303 ± 1.007
1340
1330
1320
1310
1300
1290
1280
1270

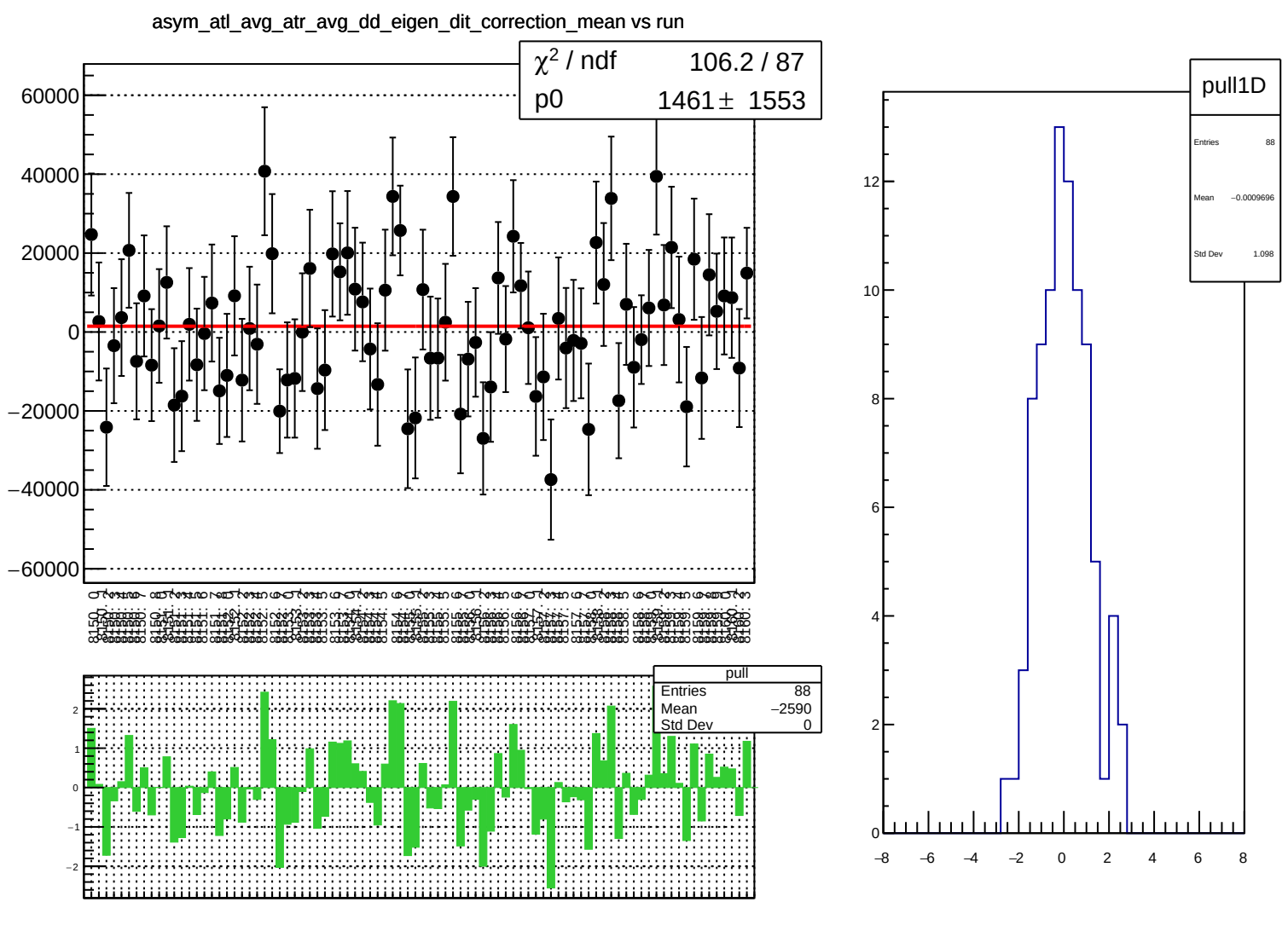

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 106.2 / 87
p0 1461 ± 1553
pull
Entries 88
Mean −2590
Std Dev 0

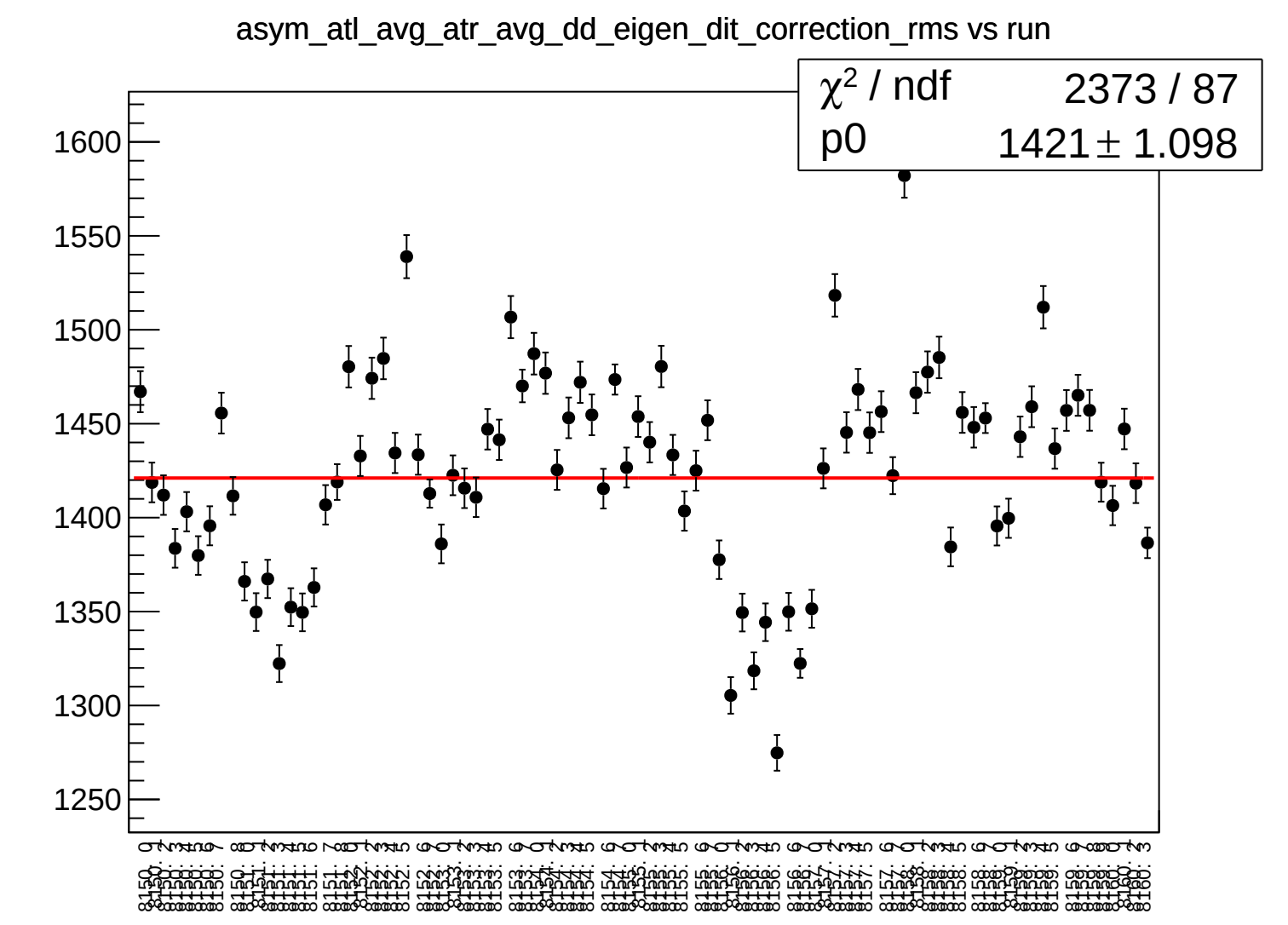

pull1D
Entries 88
Mean −0.0009696
Std Dev 1.098

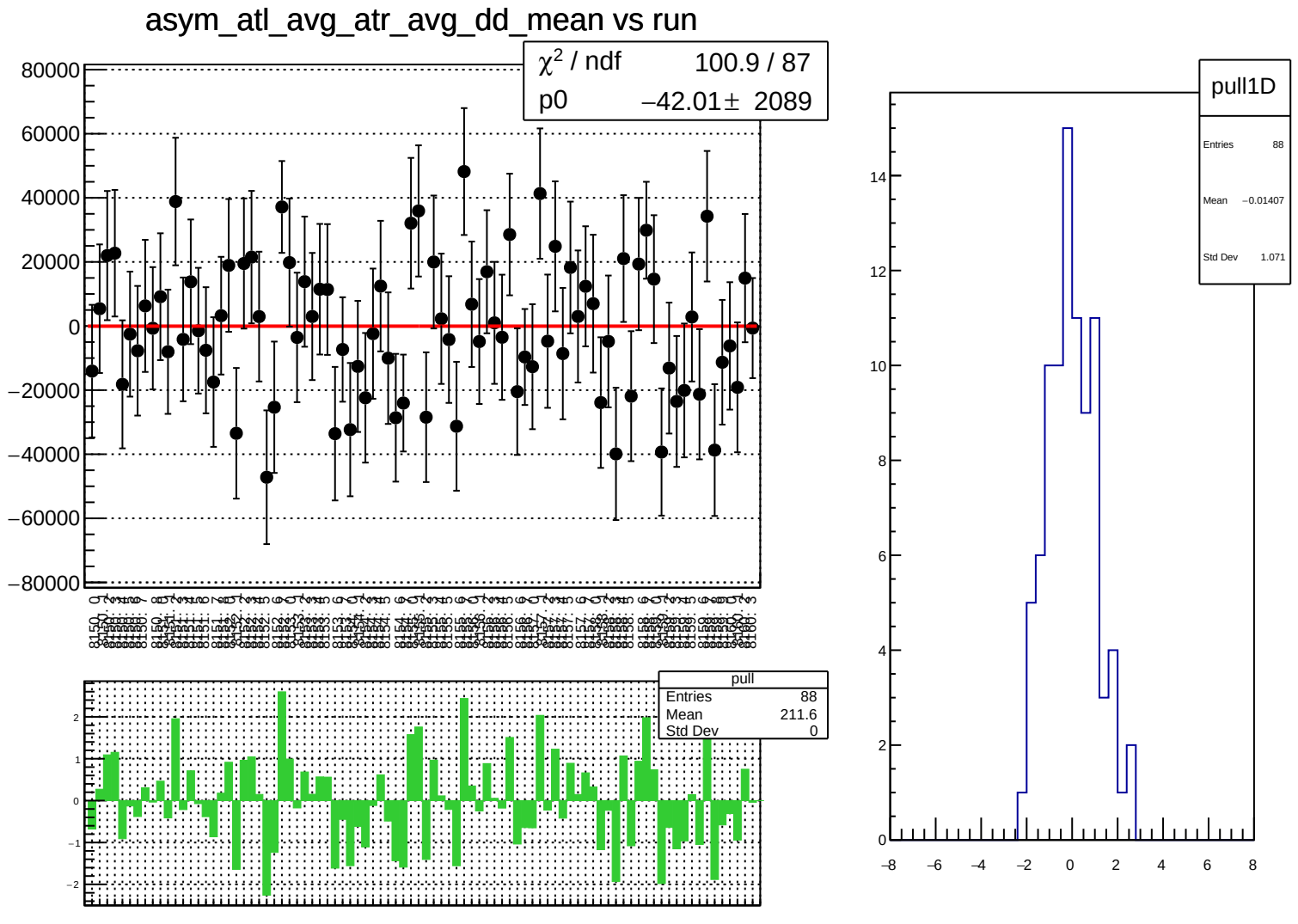

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 2373 / 87
p0 1421 ± 1.098
1600
1550
1500
1450
1400
1350
1300
1250

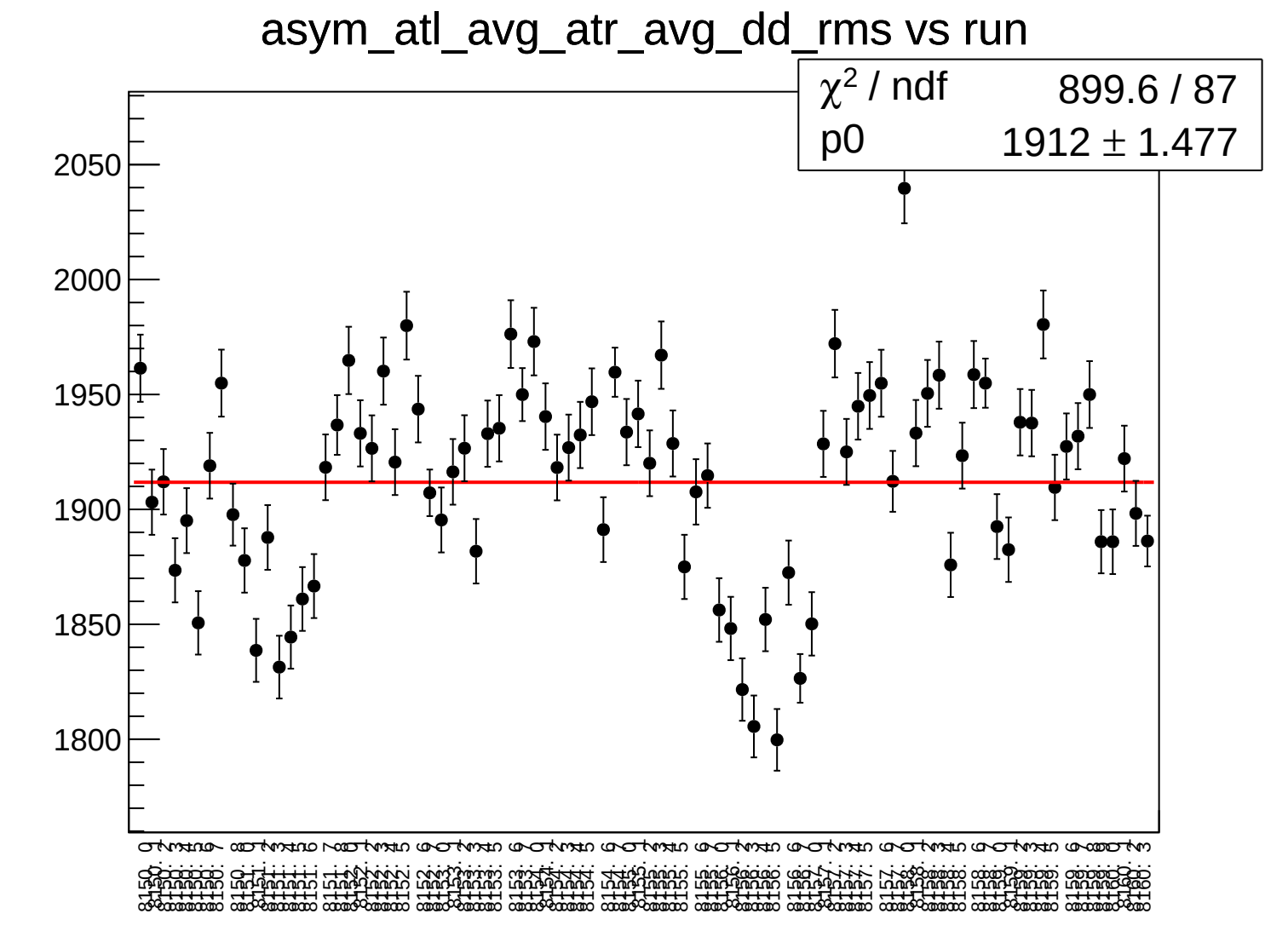

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 82.83 / 87
p0 1431 ± 1423
pull
Entries 88
Mean 79.94
Std Dev 0
pull1D
Entries 88
Mean −0.02238
Std Dev 0.9699

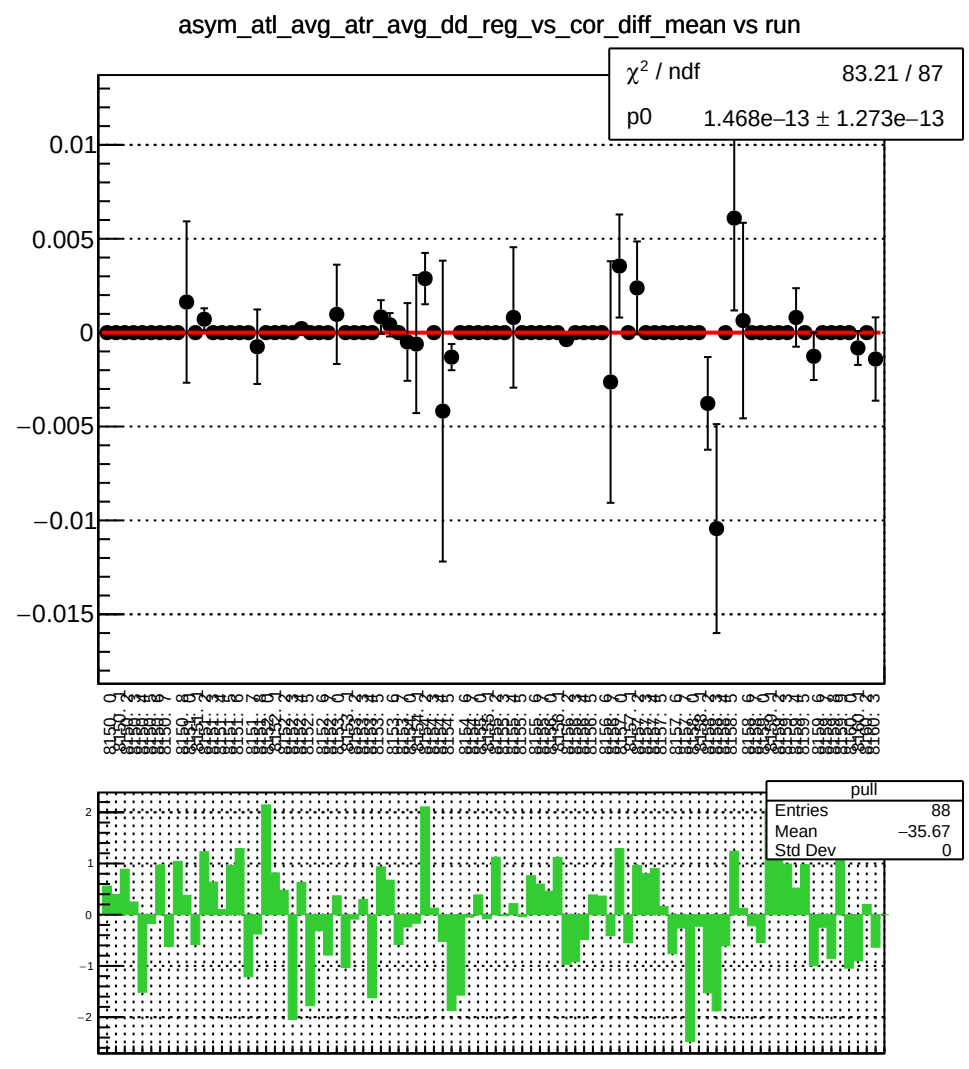

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ^2 / ndf 96.01 / 87
p0 1303 ± 1.007
1340
1330
1320
1310
1300
1290
1280
1270

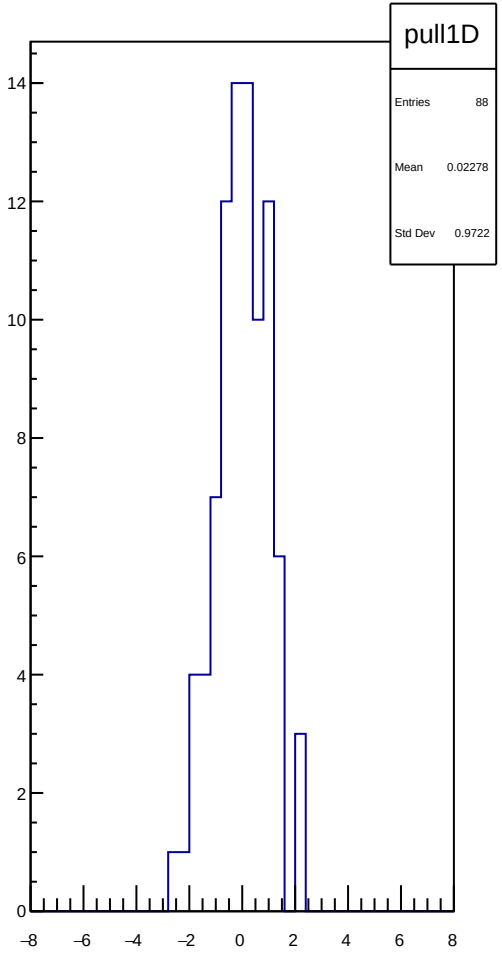

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 106.2 / 87
p0 1461 ± 1553
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −2590
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0009696
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

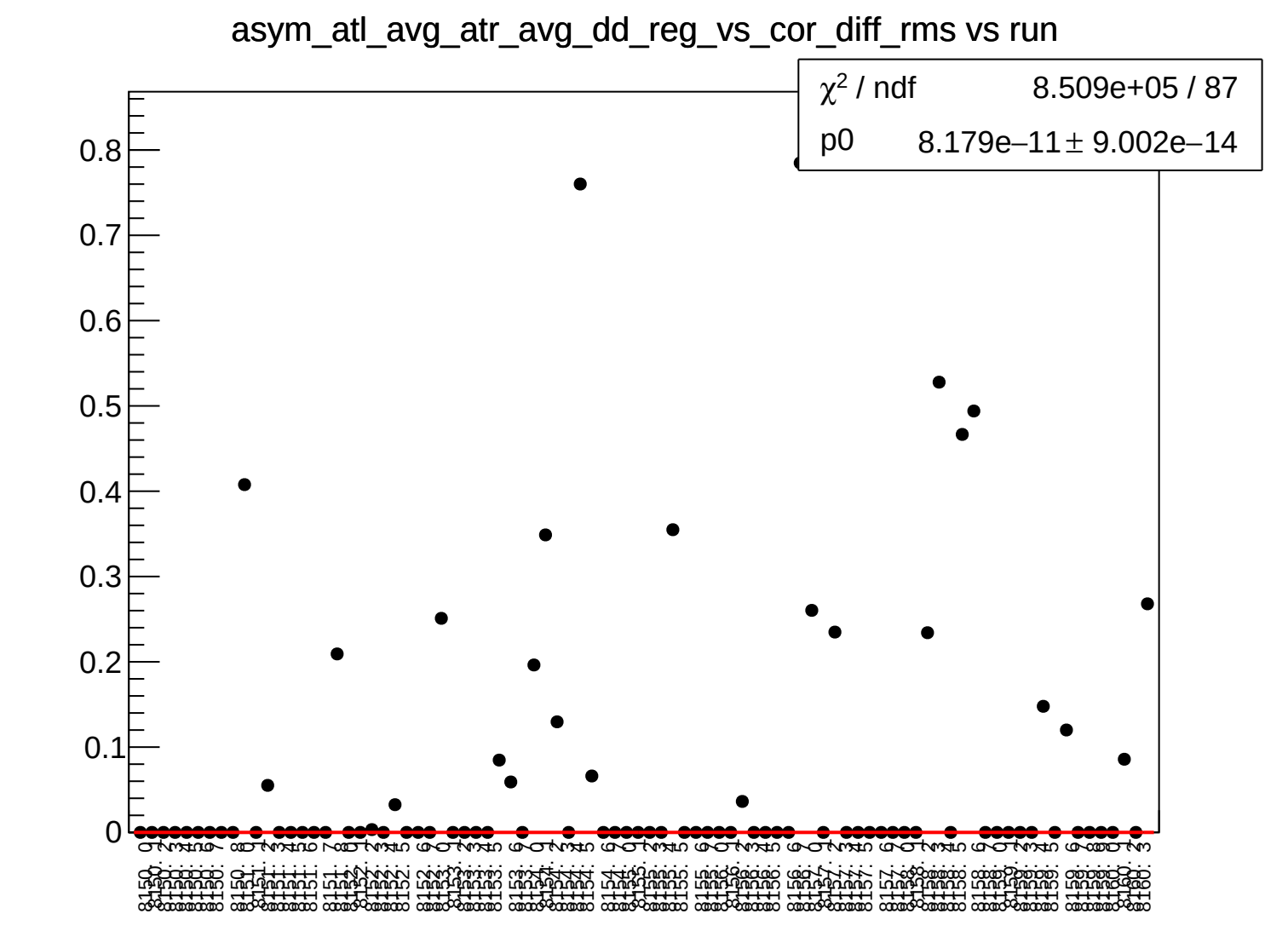

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2373 / 87
p0 1421 ± 1.098
1600
1550
1500
1450
1400
1350
1300
1250

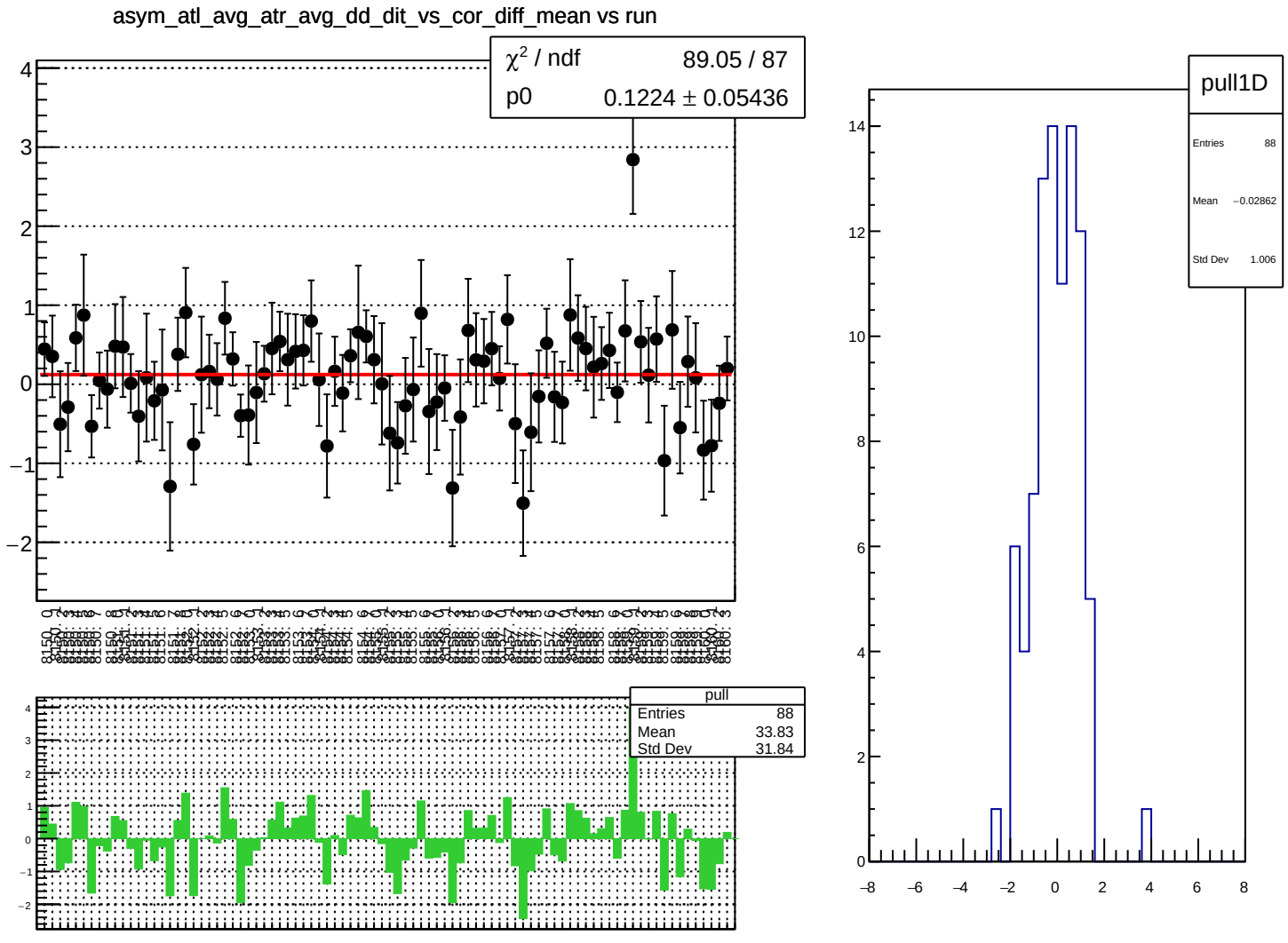

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 100.9 / 87
p0 −42.01± 2089
pull
Entries 88
Mean 211.6
Std Dev 0
pull1D
Entries 88
Mean −0.01407
Std Dev 1.071

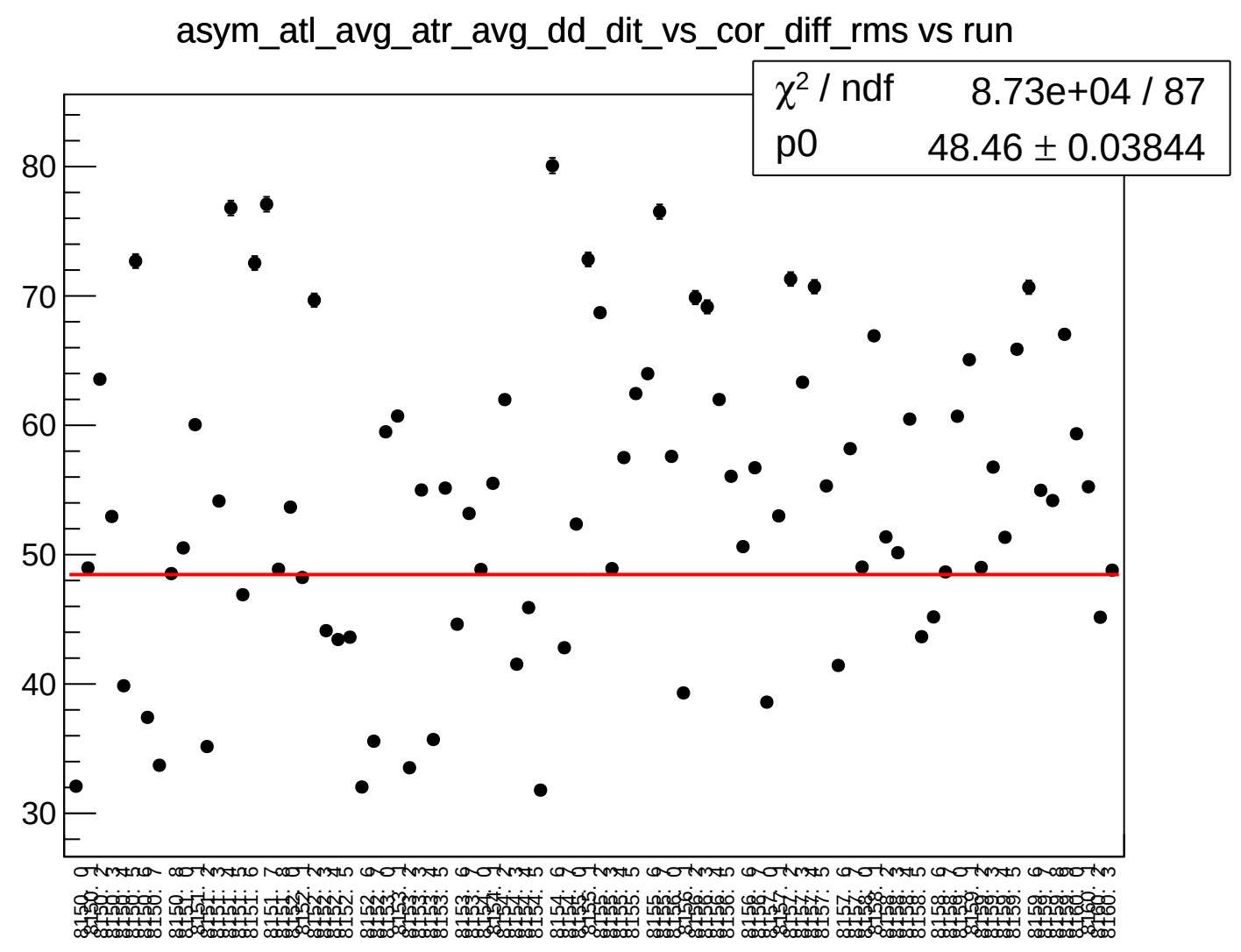

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 899.6 / 87
p0 1912 ± 1.477
2050
2000
1950
1900
1850
1800

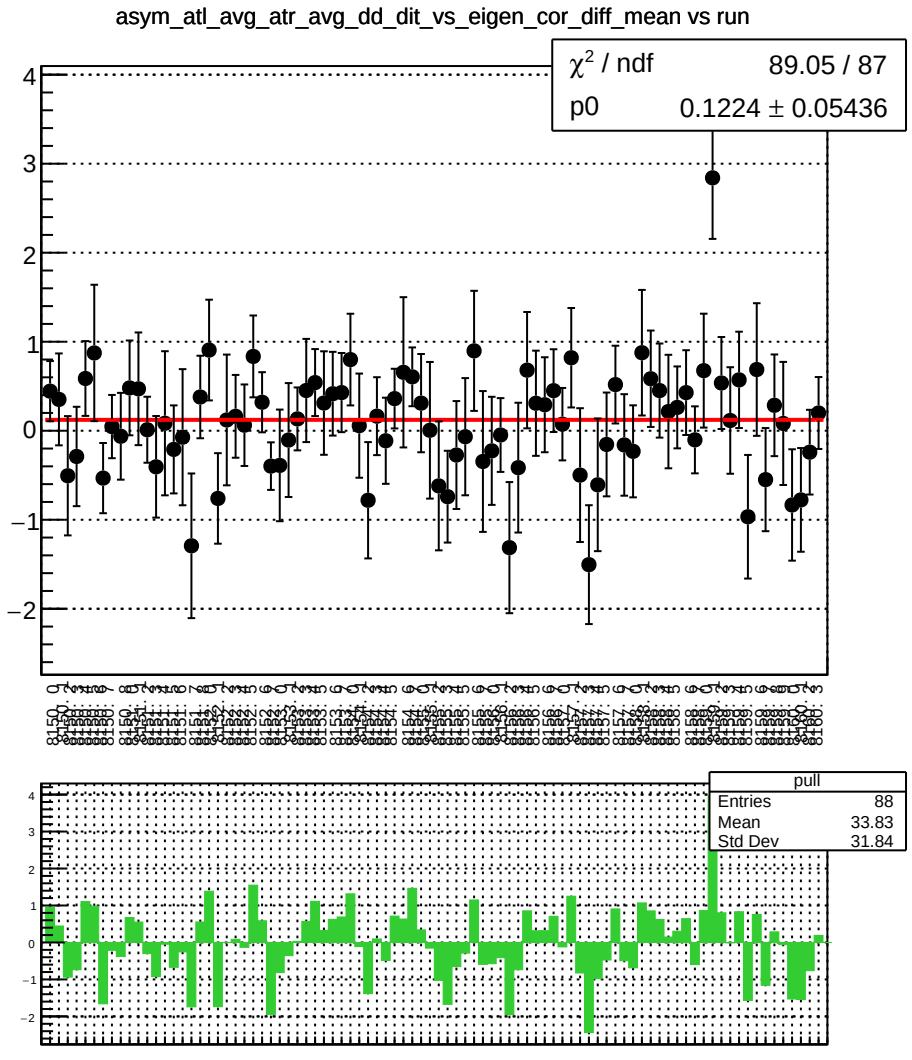

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.21 / 87
p0 1.468e−13 ± 1.273e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean −35.67
Std Dev 0
2
1
0
−1
−2

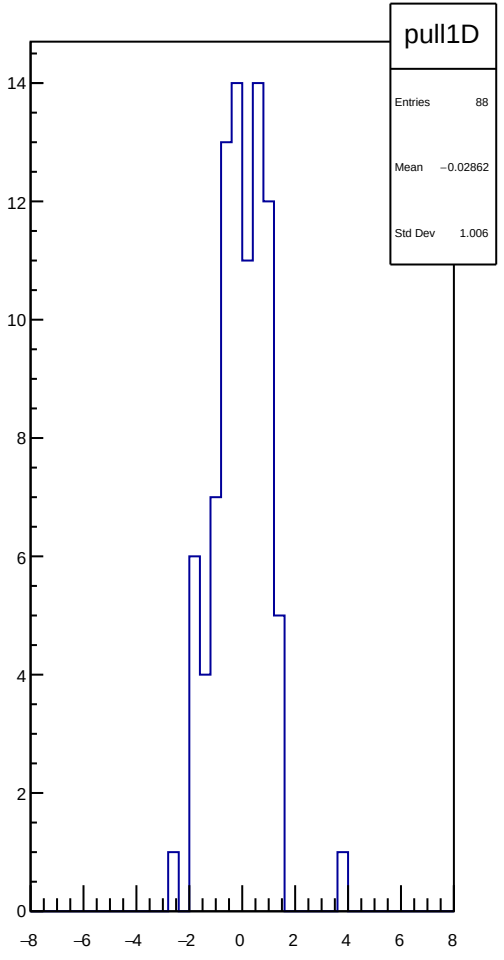

pull1D
Entries 88
Mean 0.02278
Std Dev 0.9722
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

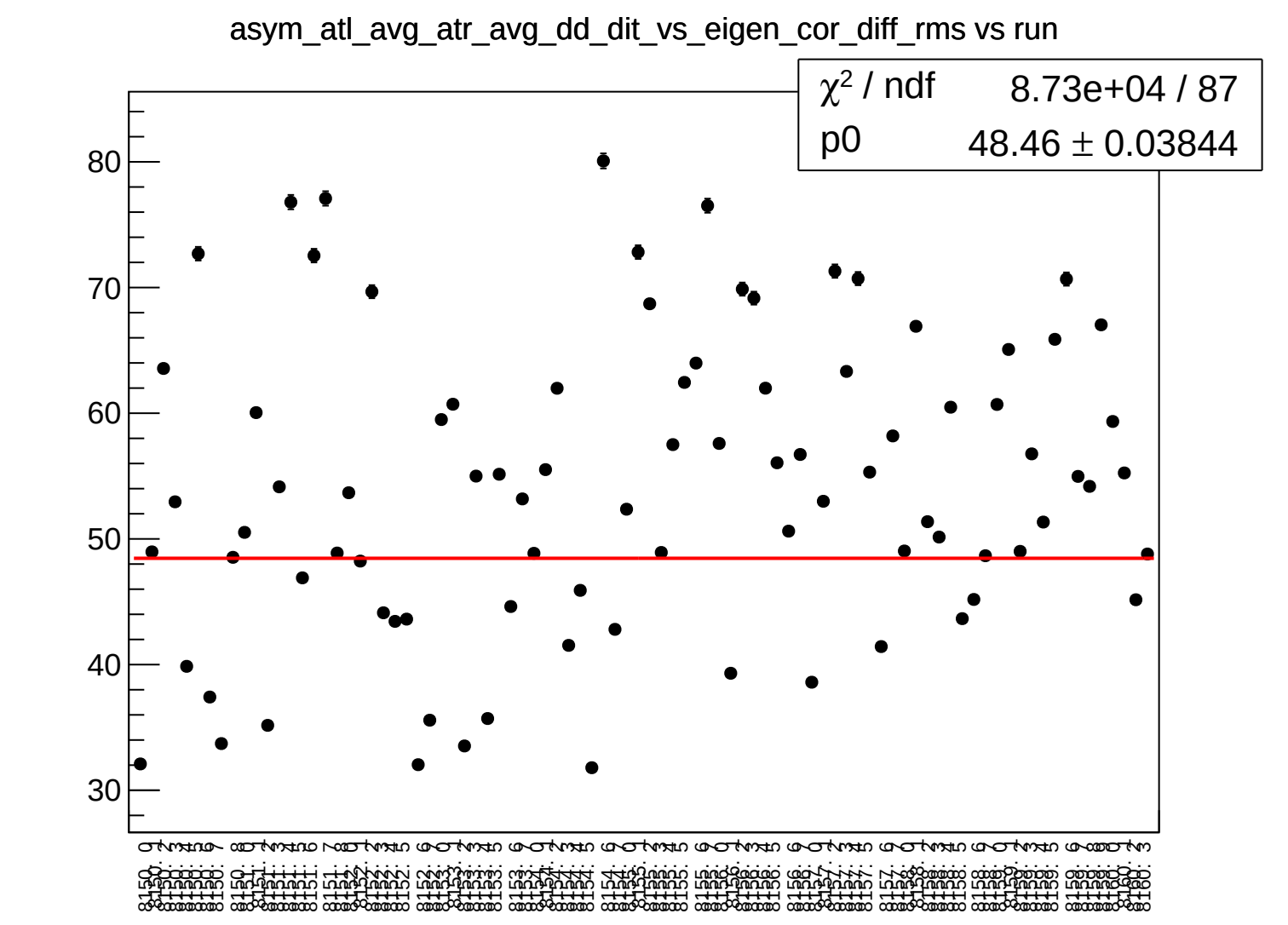

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.509e+05 / 87
p0 8.179e−11 ± 9.002e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

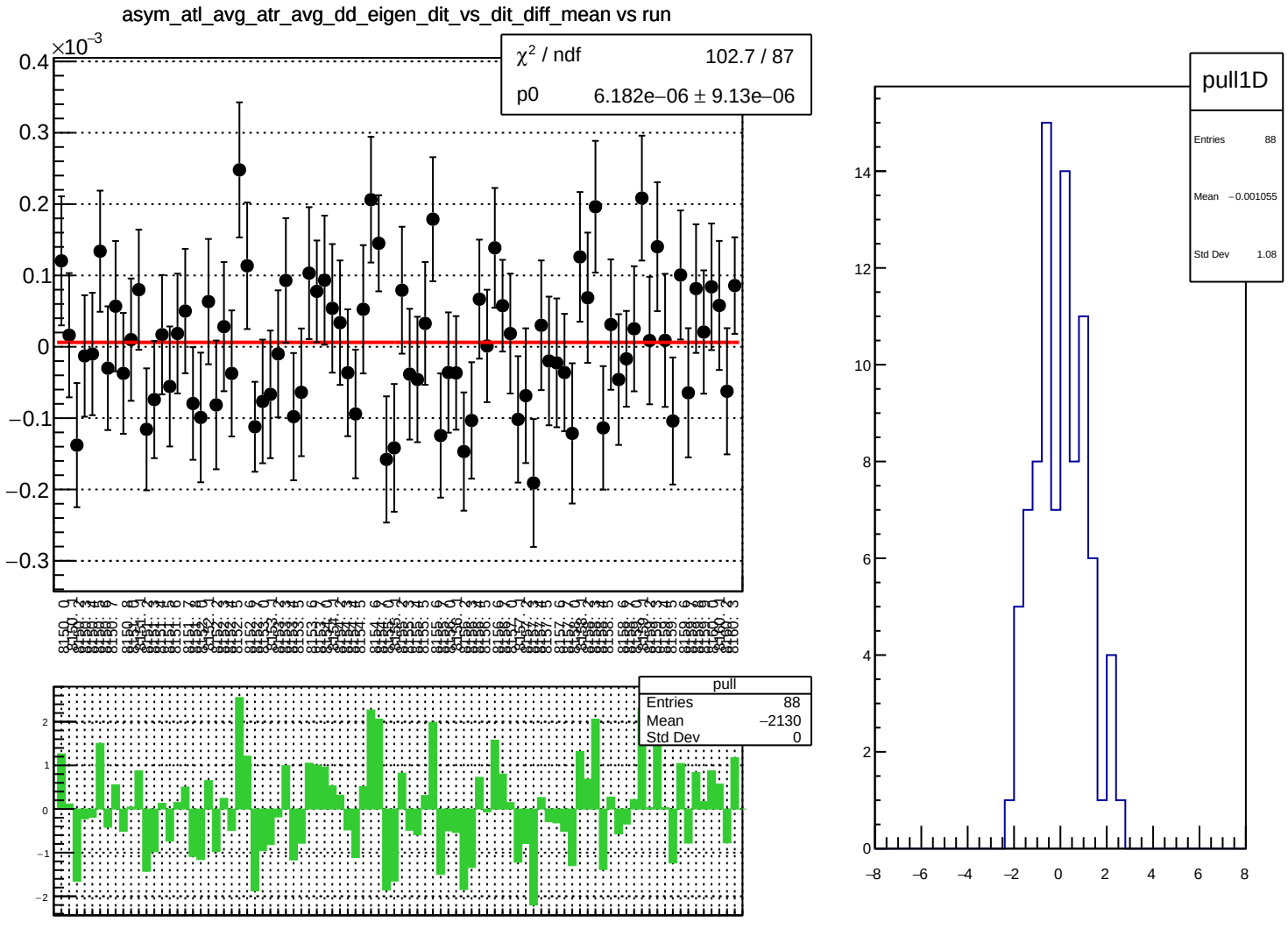

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.05 / 87
p0 0.1224 ± 0.05436
pull
Entries 88
Mean 33.83
Std Dev 31.84
pull1D
Entries 88
Mean −0.02862
Std Dev 1.006

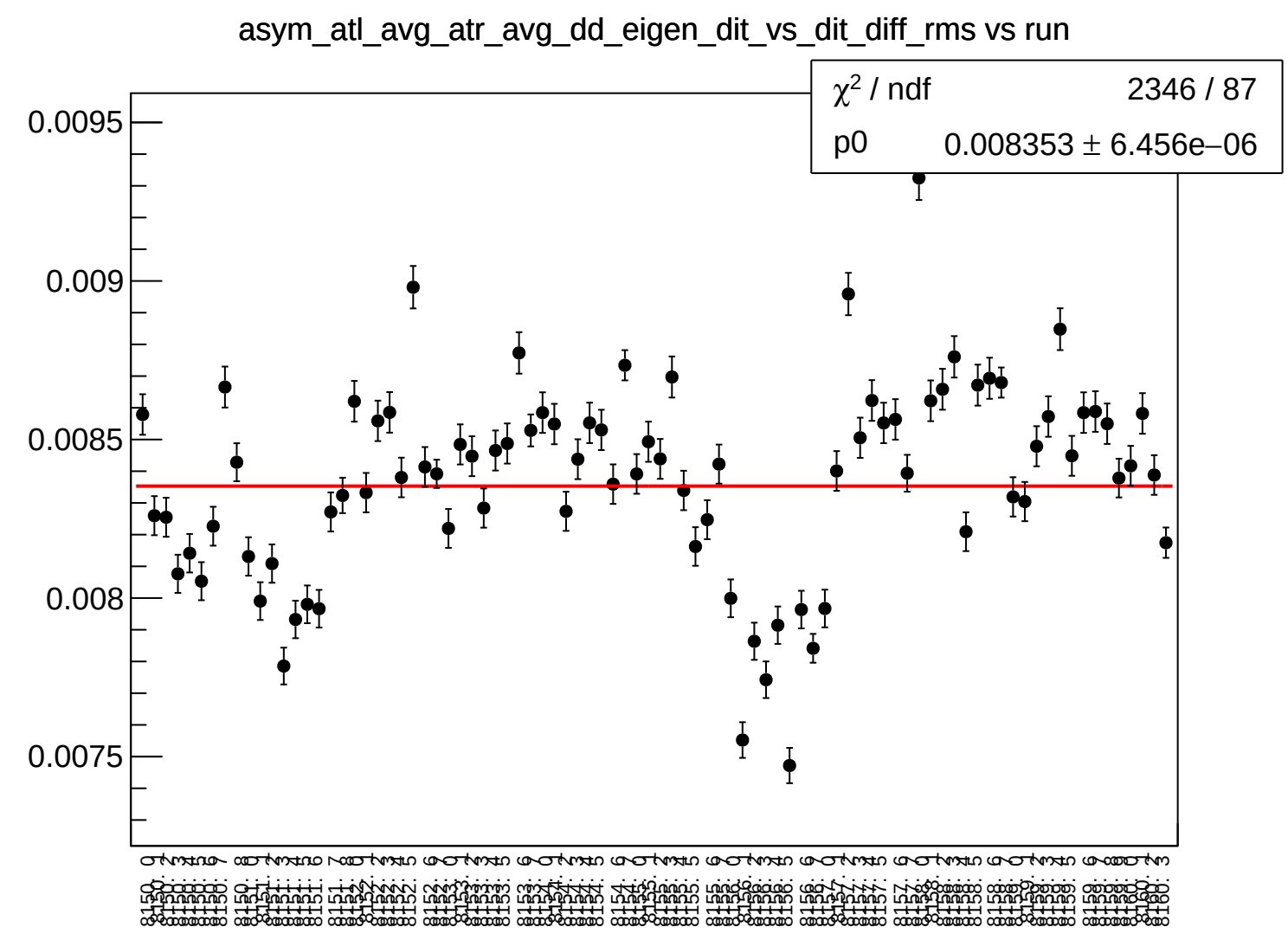

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.73e+04 / 87
p0 48.46 ± 0.03844
80
70
60
50
40
30

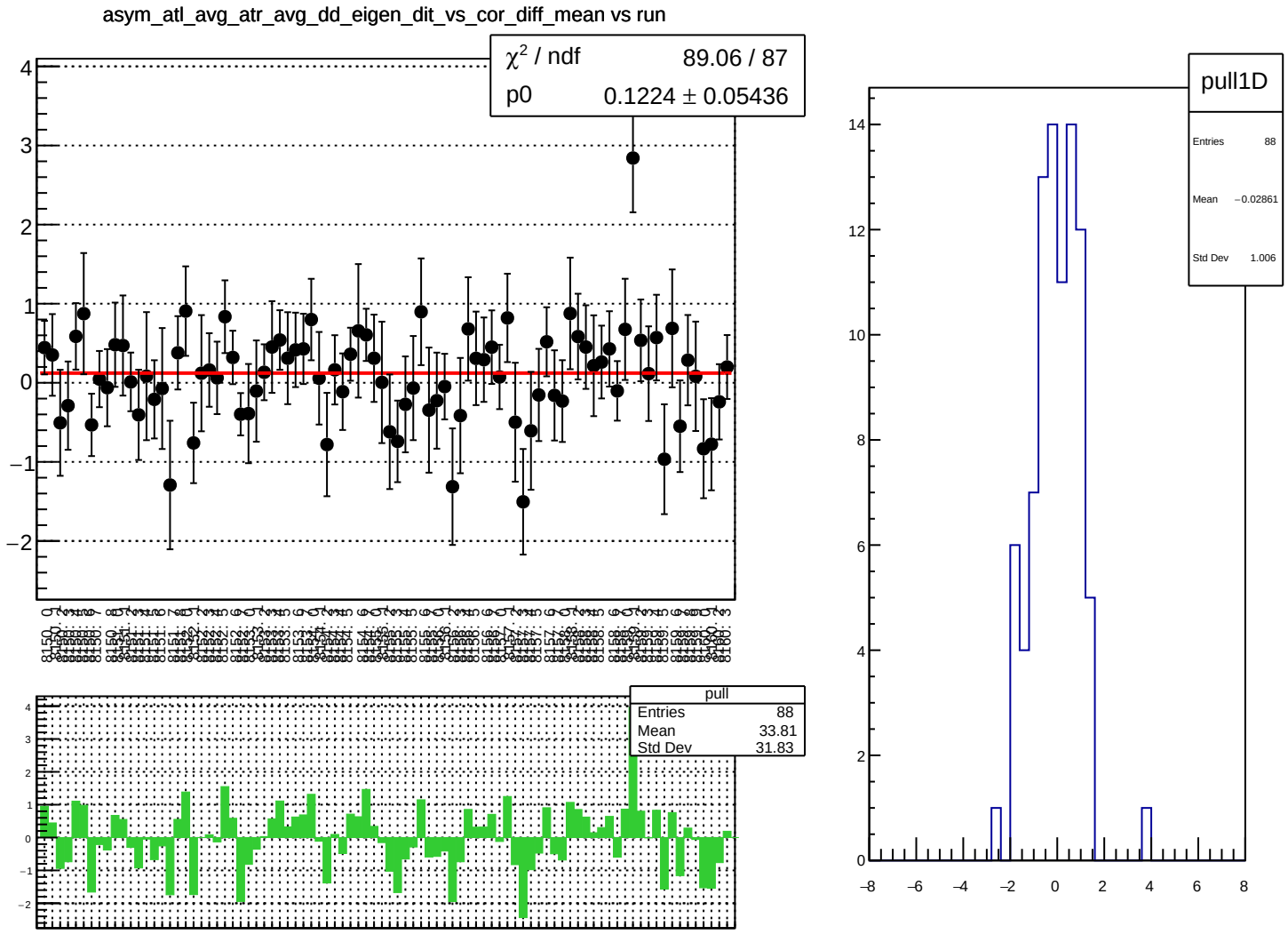

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.05 / 87
p0 0.1224 ± 0.05436
pull
Entries 88
Mean 33.83
Std Dev 31.84

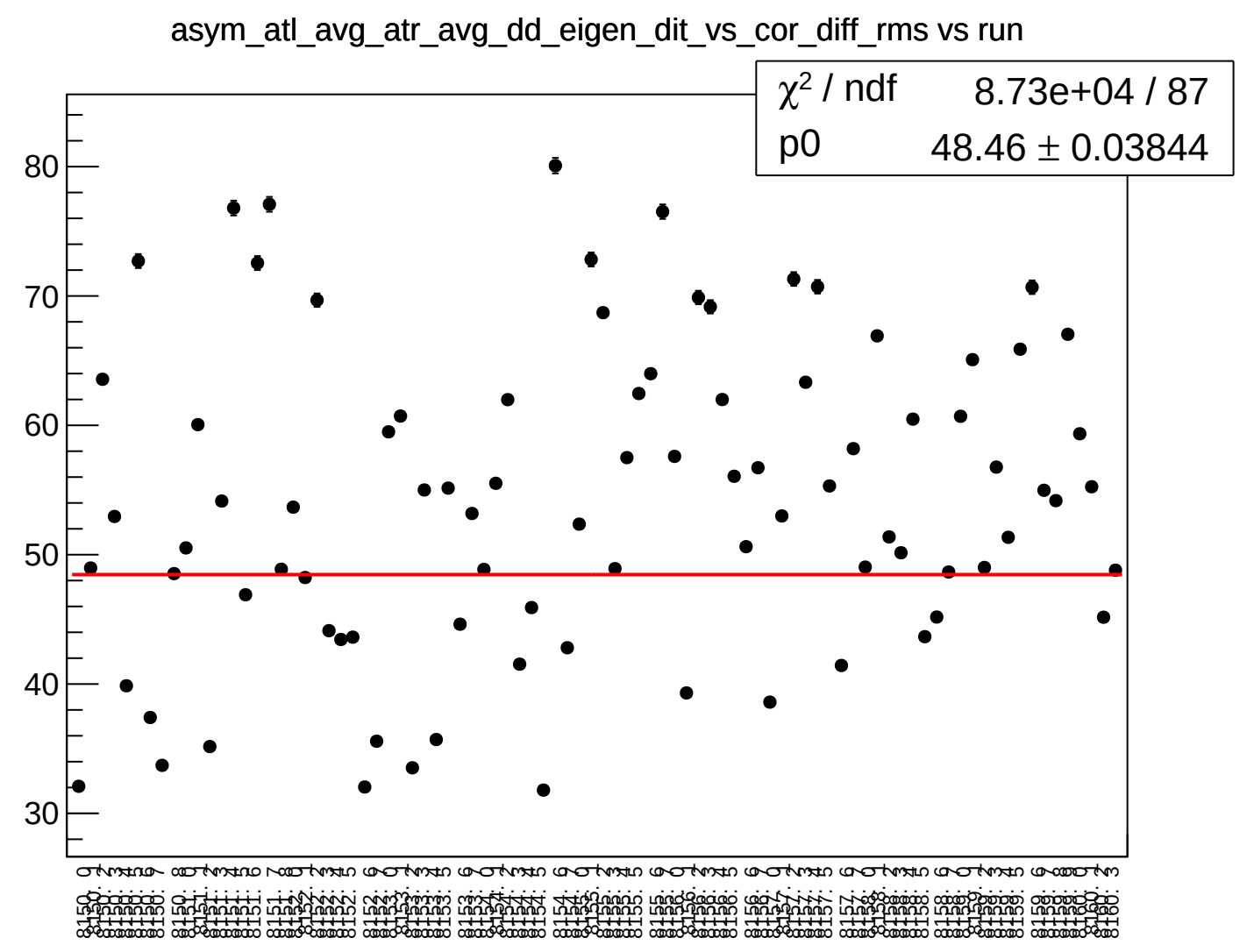

pull1D
Entries 88
Mean −0.02862
Std Dev 1.006

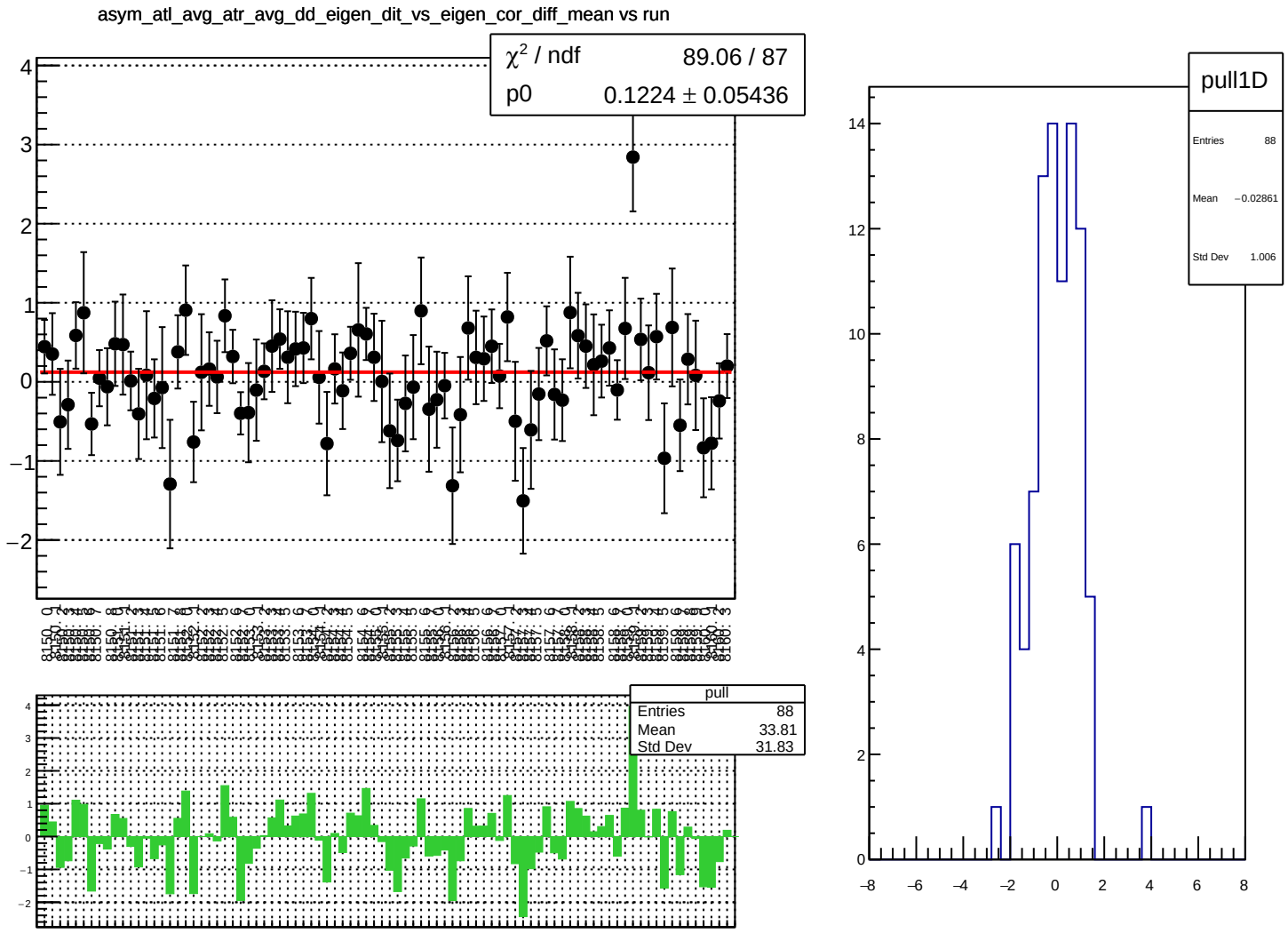

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.73e+04 / 87
p0 48.46 ± 0.03844
80
70
60
50
40
30

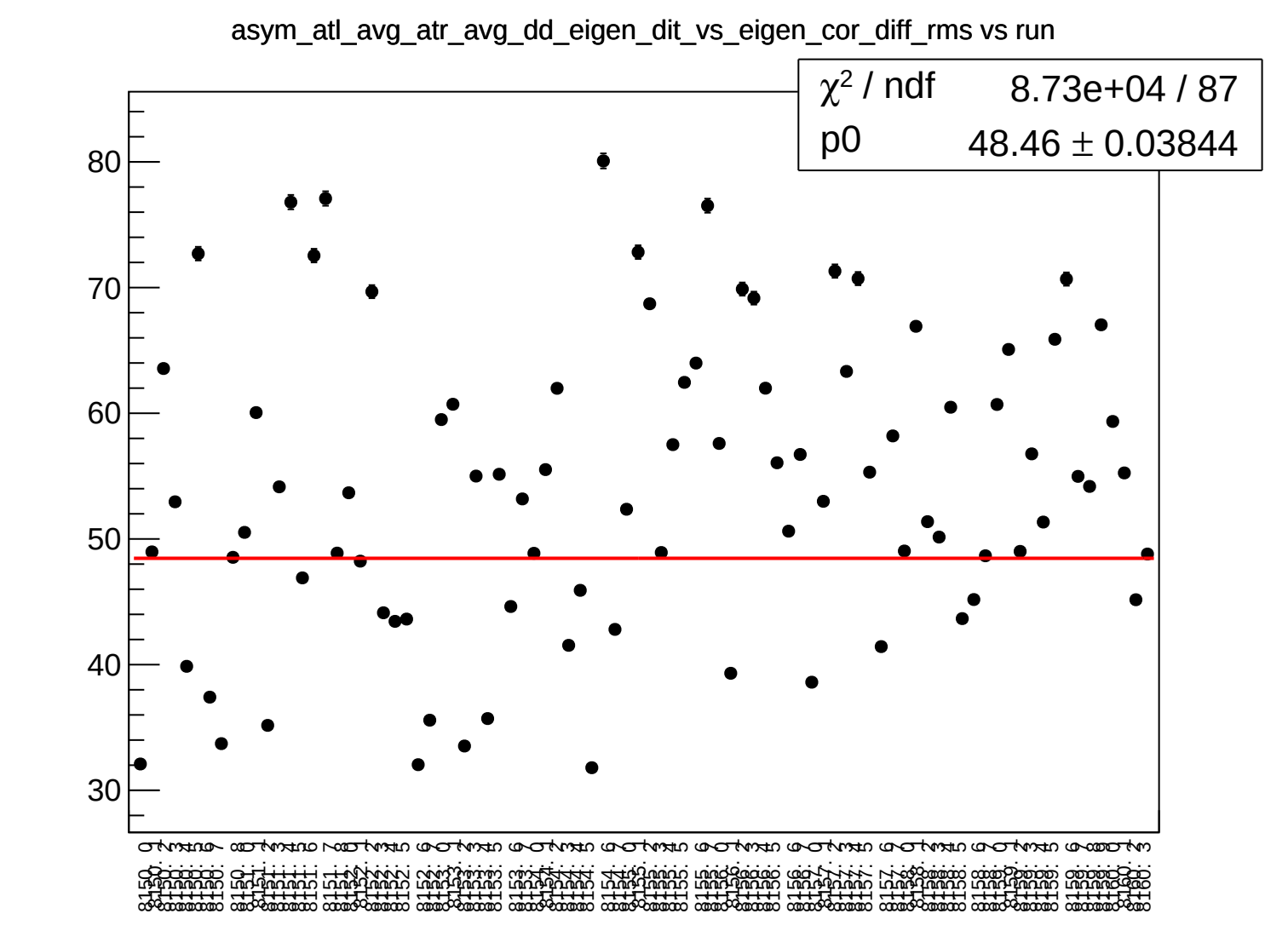

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.7 / 87
p0 6.182e−06 ± 9.13e−06
pull
Entries 88
Mean −2130
Std Dev 0
pull1D
Entries 88
Mean −0.001055
Std Dev 1.08

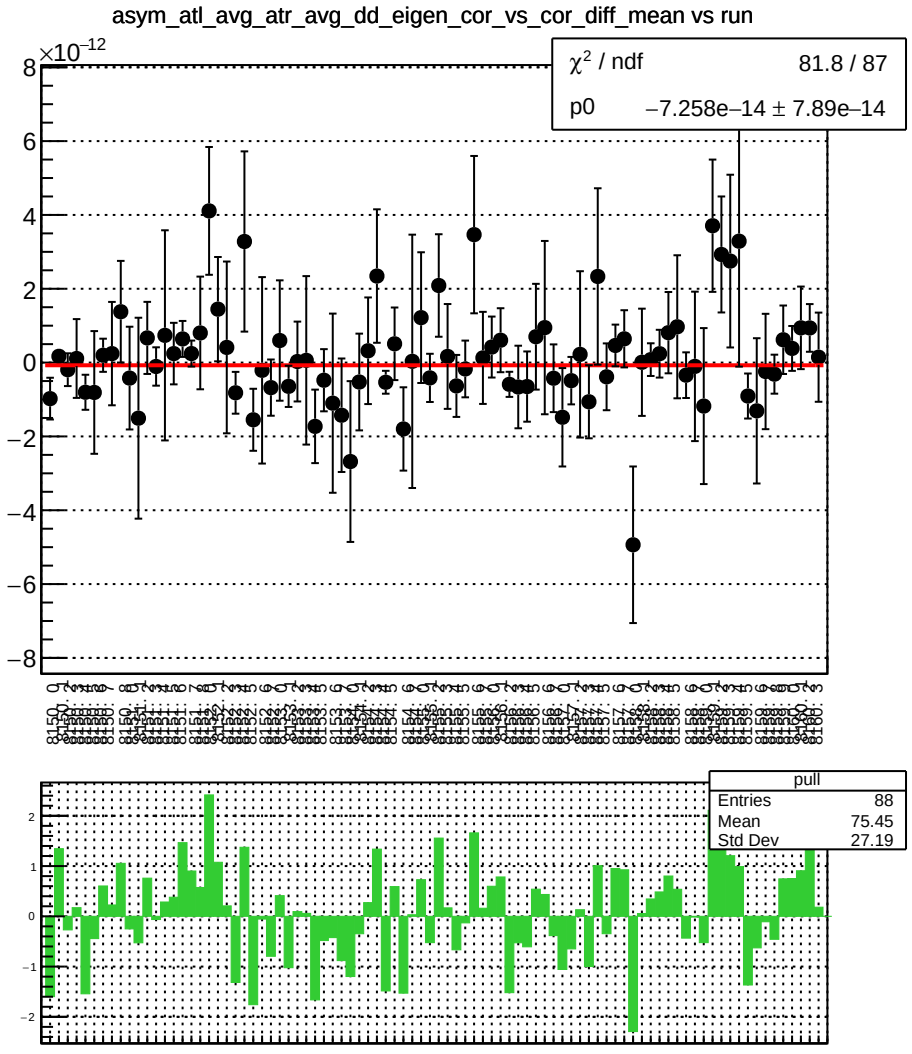

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2346 / 87
p0 0.008353 ± 6.456e−06
0.0095
0.009
0.0085
0.008
0.0075

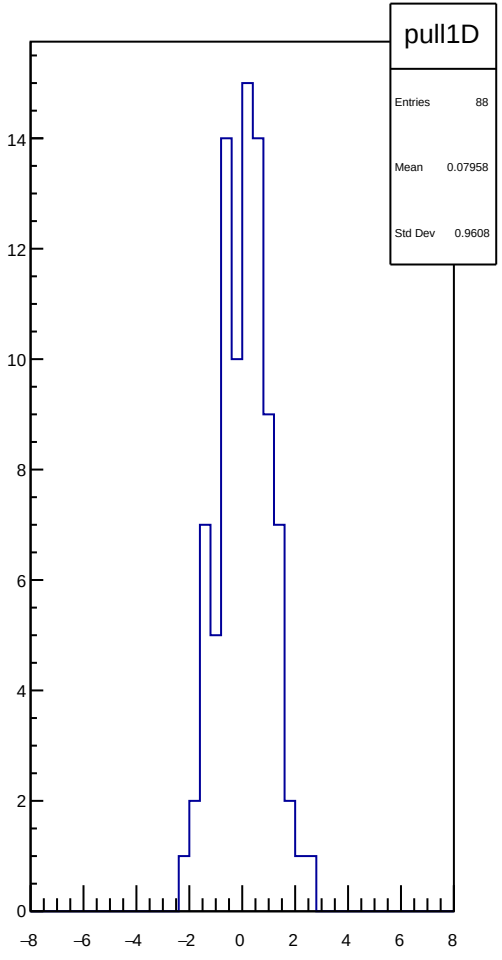

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.06 / 87
p0 0.1224 ± 0.05436
pull
Entries 88
Mean 33.81
Std Dev 31.83
pull1D
Entries 88
Mean −0.02861
Std Dev 1.006

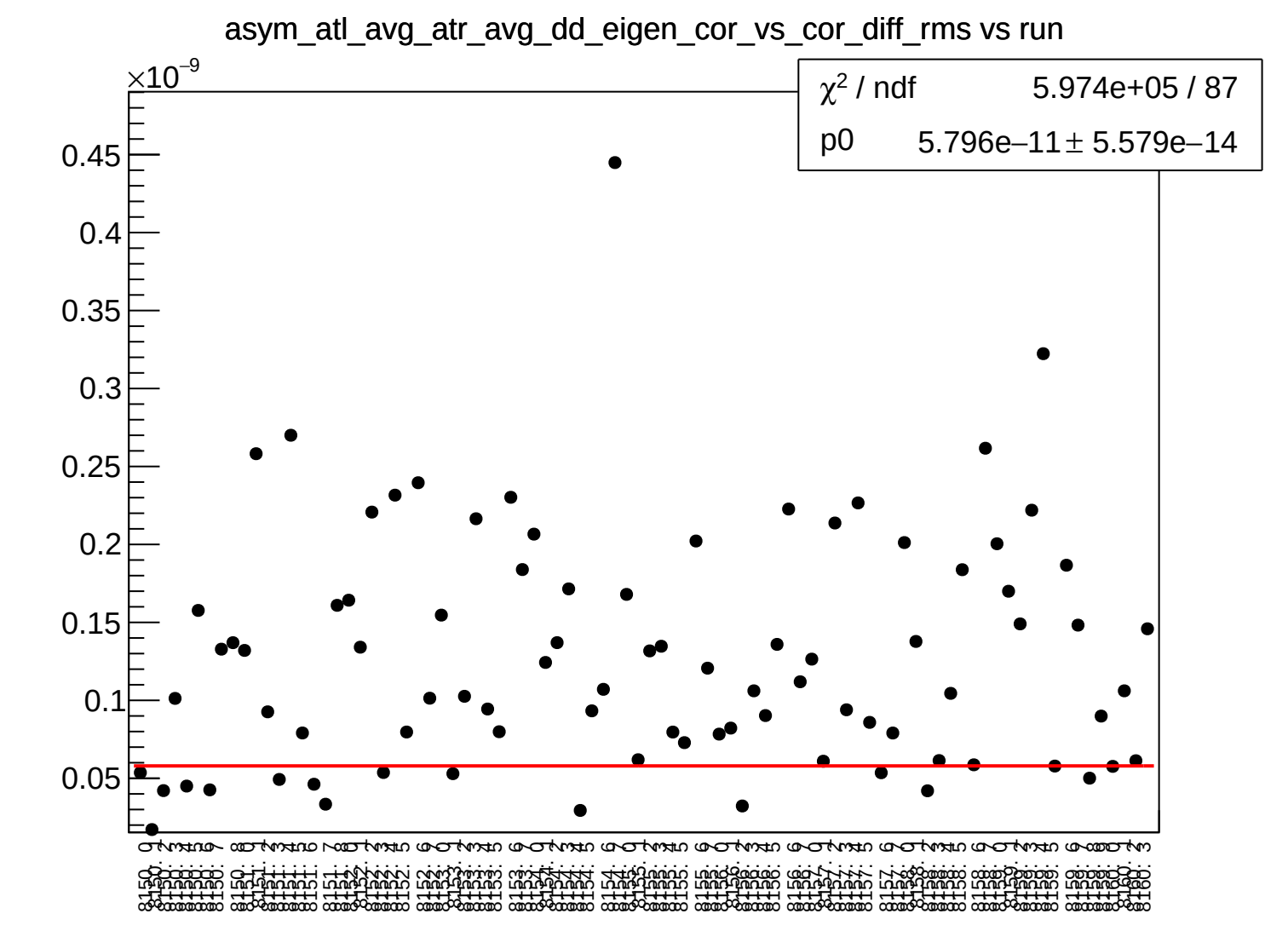

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.73e+04 / 87
p0 48.46 ± 0.03844
80
70
60
50
40
30

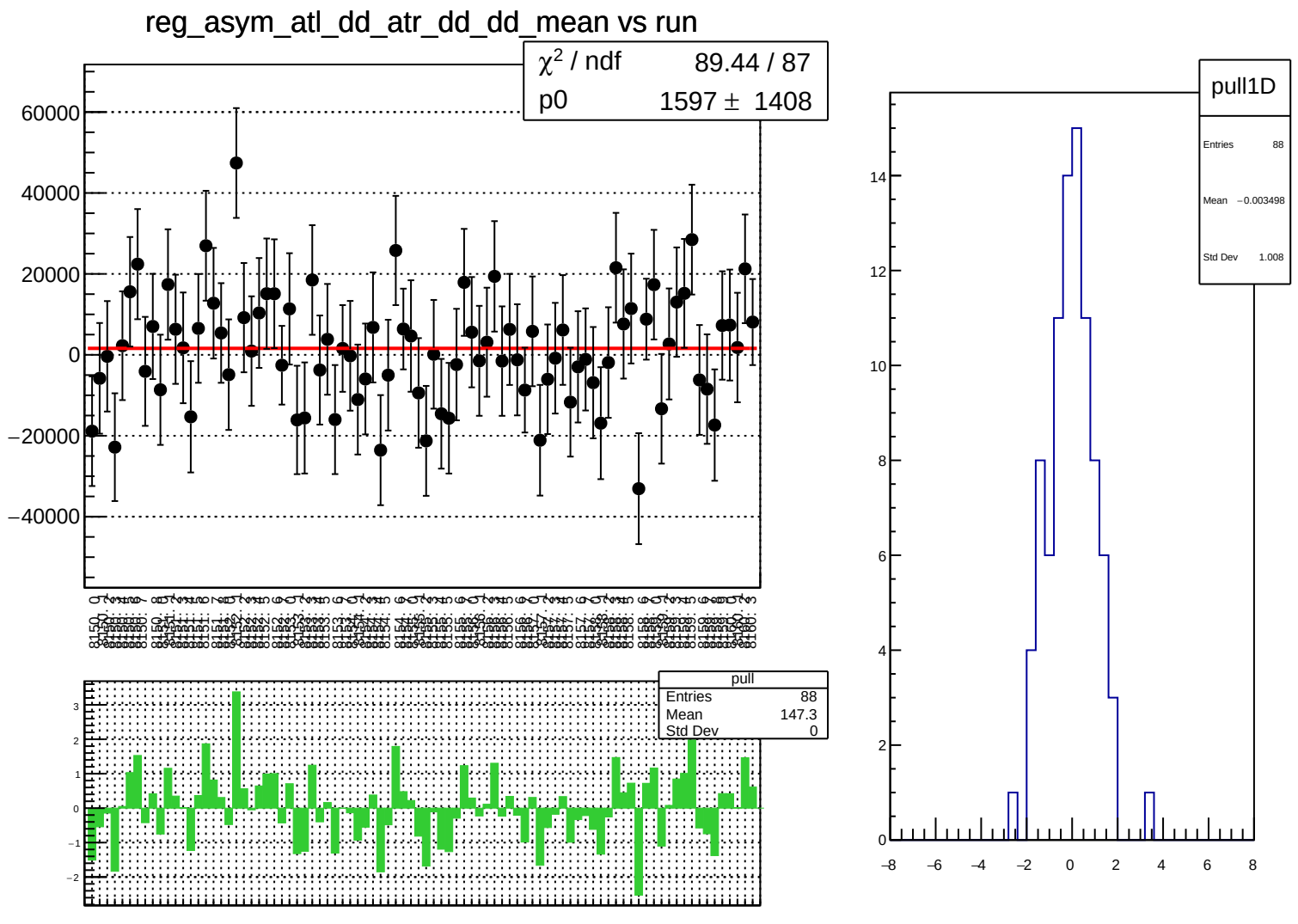

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.06 / 87
p0 0.1224 ± 0.05436
pull
Entries 88
Mean 33.81
Std Dev 31.83
pull1D
Entries 88
Mean −0.02861
Std Dev 1.006

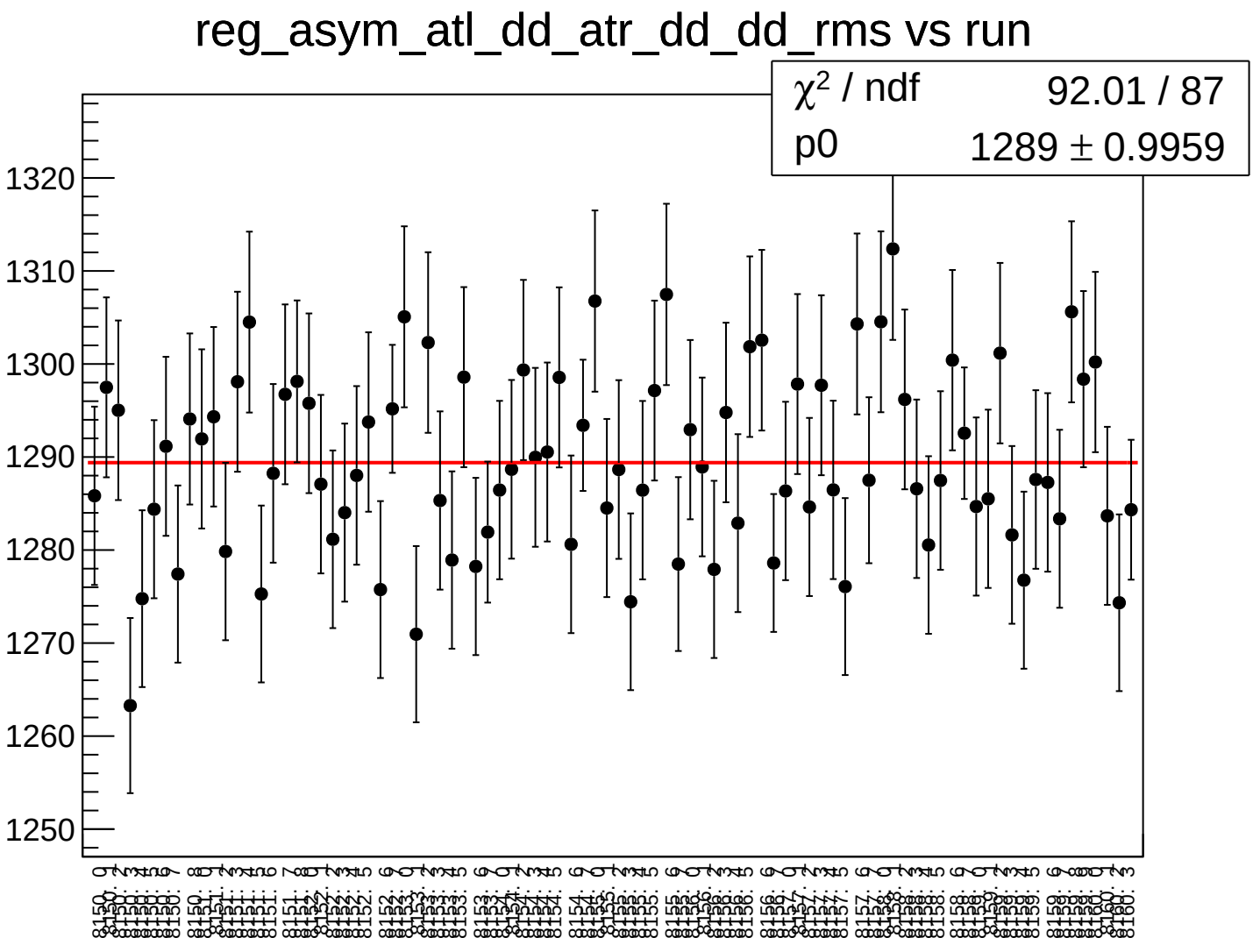

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.73e+04 / 87
p0 48.46 ± 0.03844
80
70
60
50
40
30

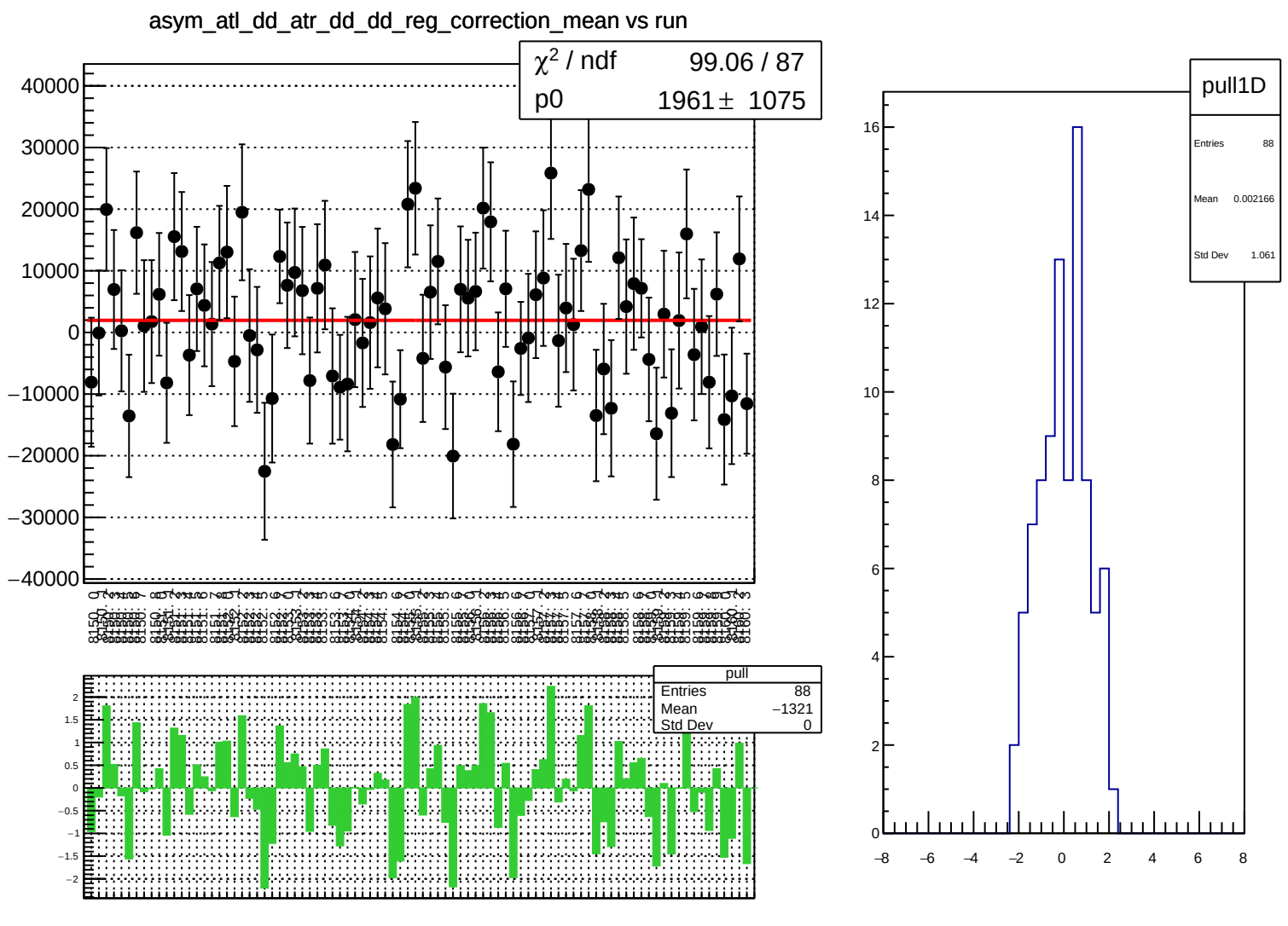

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.8 / 87
p0 −7.258e−14 ± 7.89e−14
pull
Entries 88
Mean 75.45
Std Dev 27.19

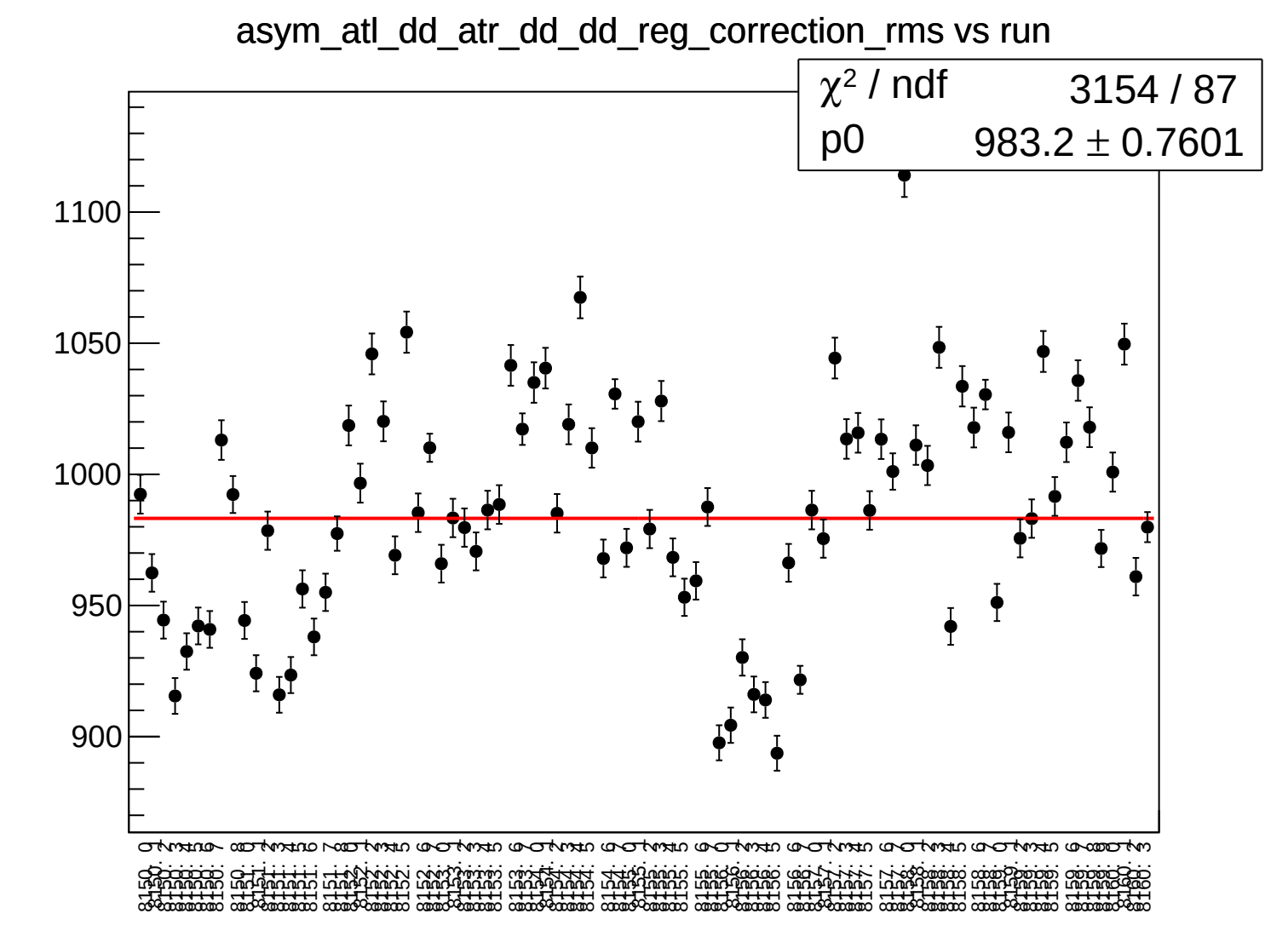

pull1D
Entries 88
Mean 0.07958
Std Dev 0.9608

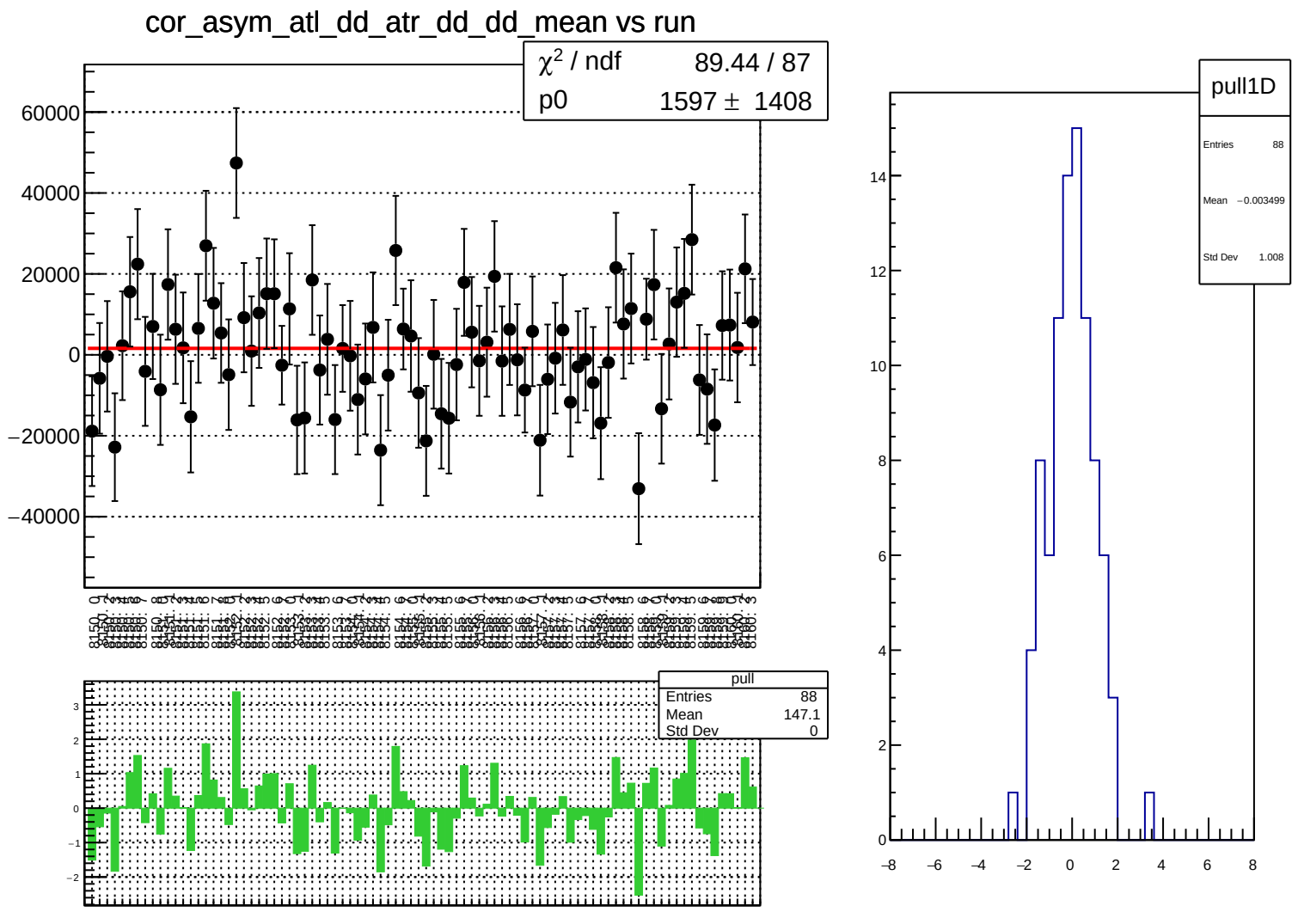

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.974e+05 / 87
p0 5.796e−11 ± 5.579e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

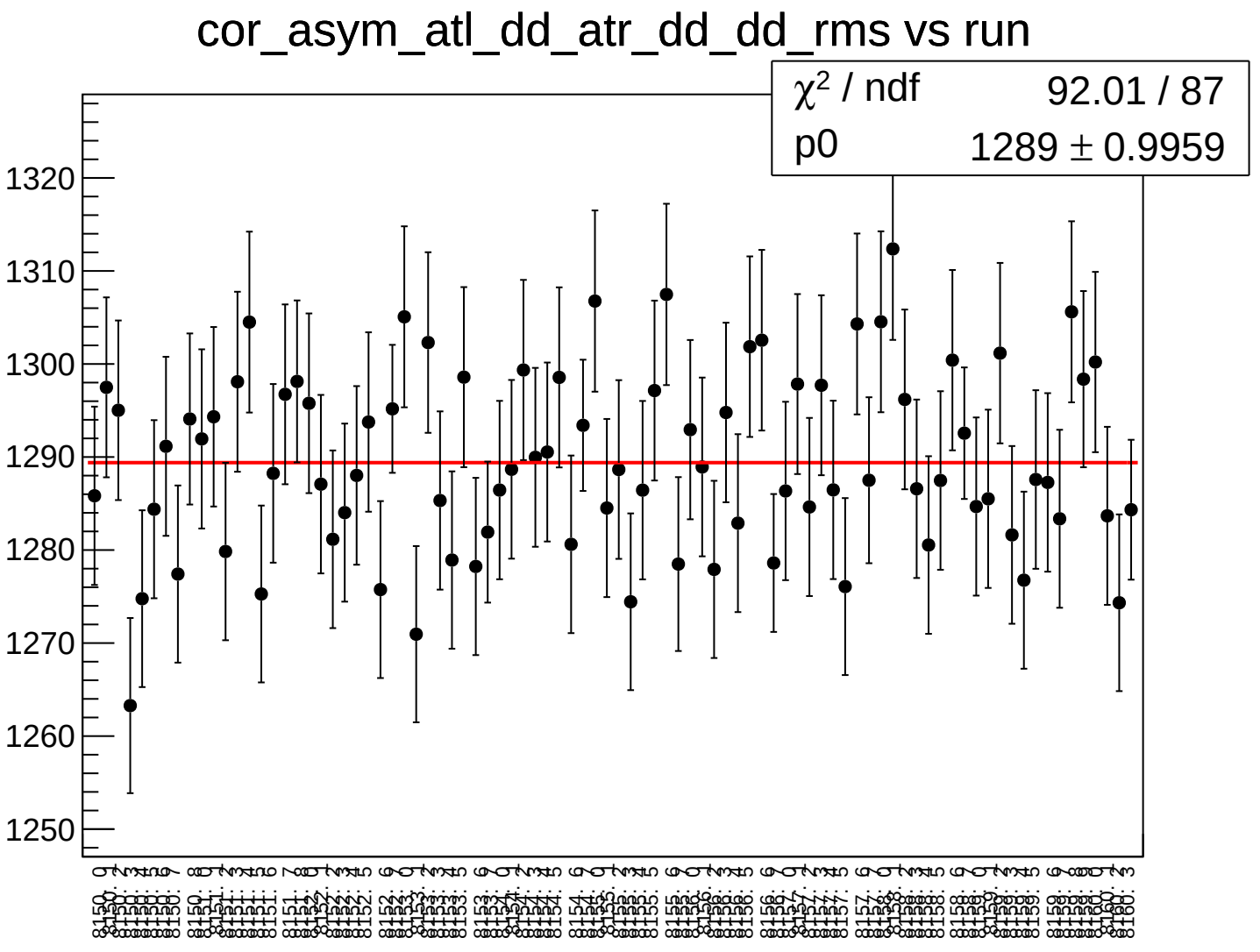

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.44 / 87
p0 1597 ± 1408
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 147.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003498
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

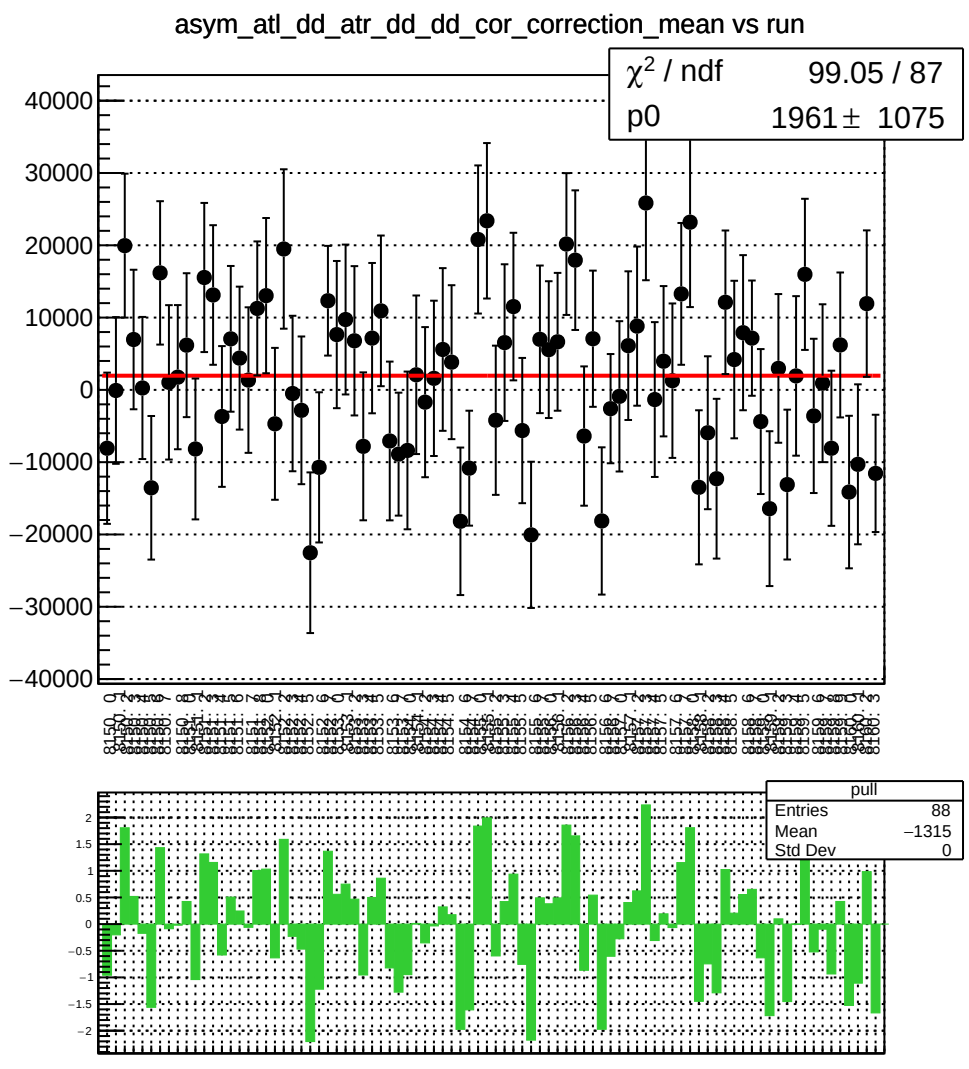

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 92.01 / 87
p0 1289 ± 0.9959
1320
1310
1300
1290
1280
1270
1260
1250

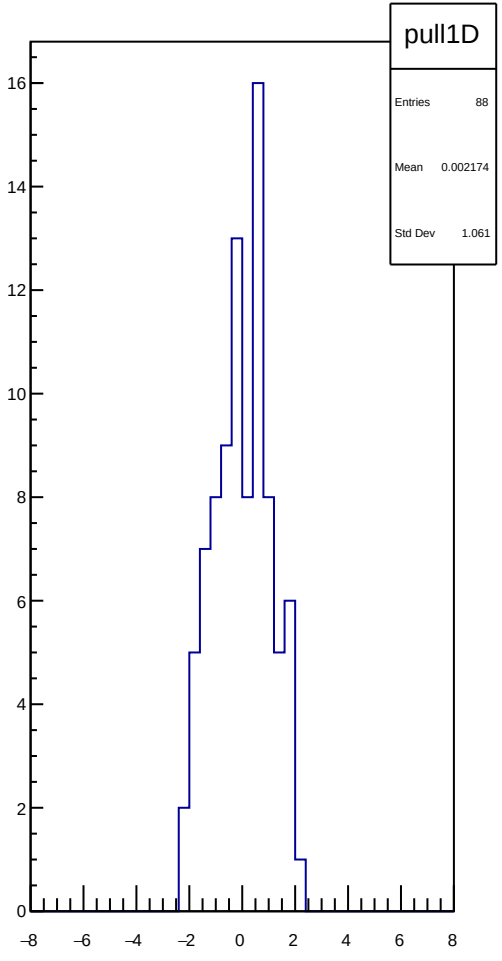

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 99.06 / 87
p0 1961 ± 1075
pull
Entries 88
Mean −1321
Std Dev 0
pull1D
Entries 88
Mean 0.002166
Std Dev 1.061

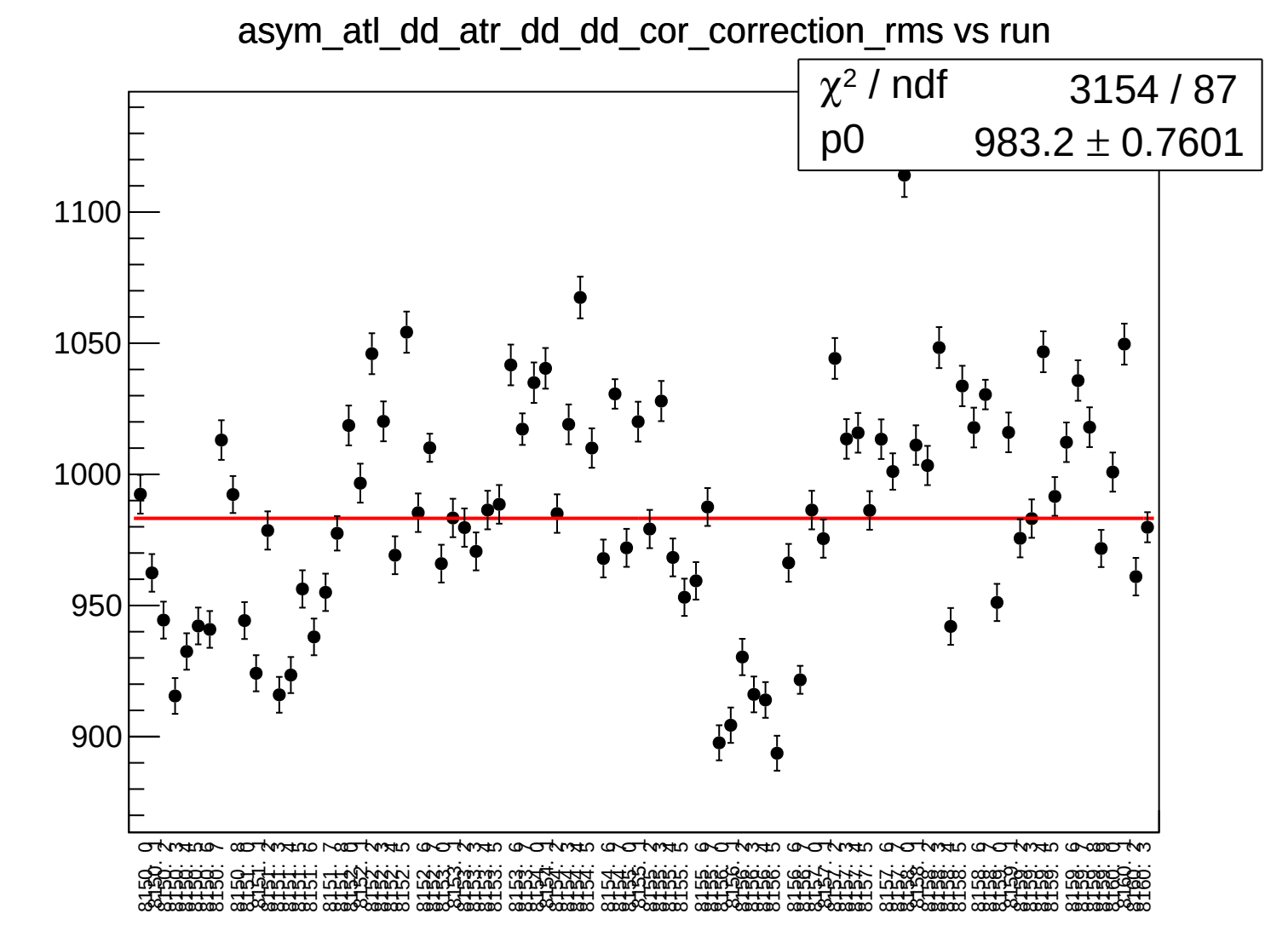

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 3154 / 87
p0 983.2 ± 0.7601
1100
1050
1000
950
900

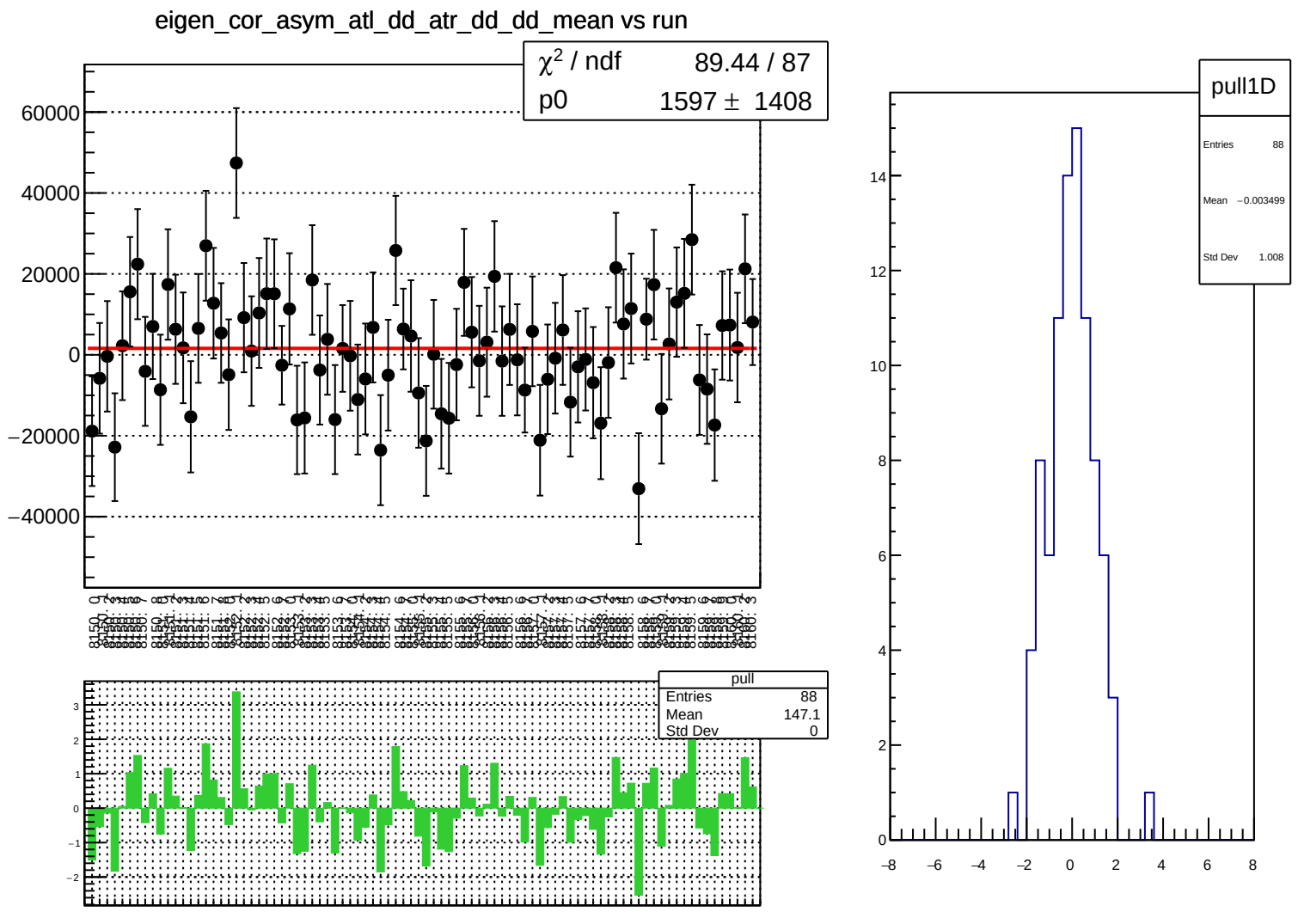

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.44 / 87
p0 1597 ± 1408
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 147.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003499
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

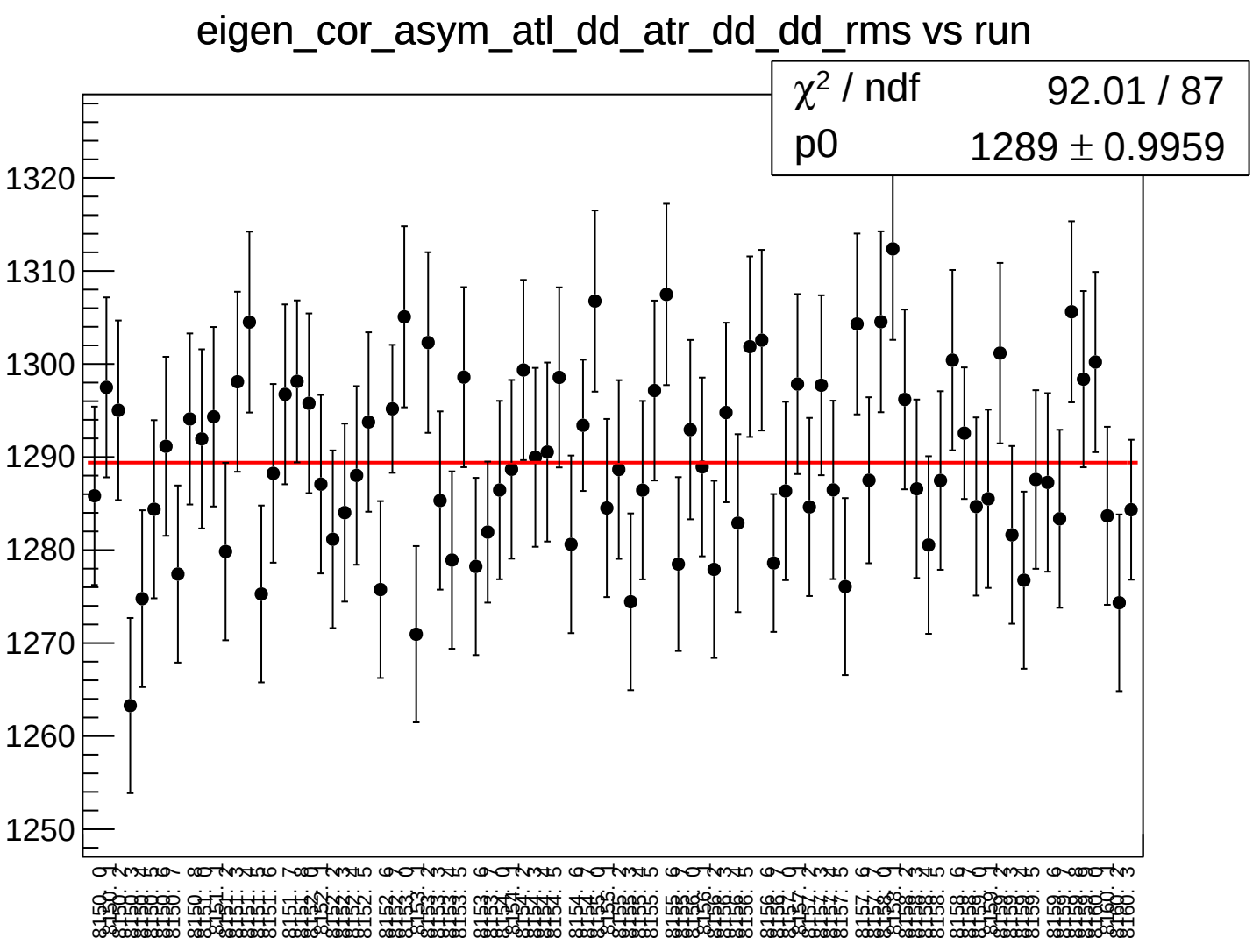

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 92.01 / 87
p0 1289 ± 0.9959
1320
1310
1300
1290
1280
1270
1260
1250

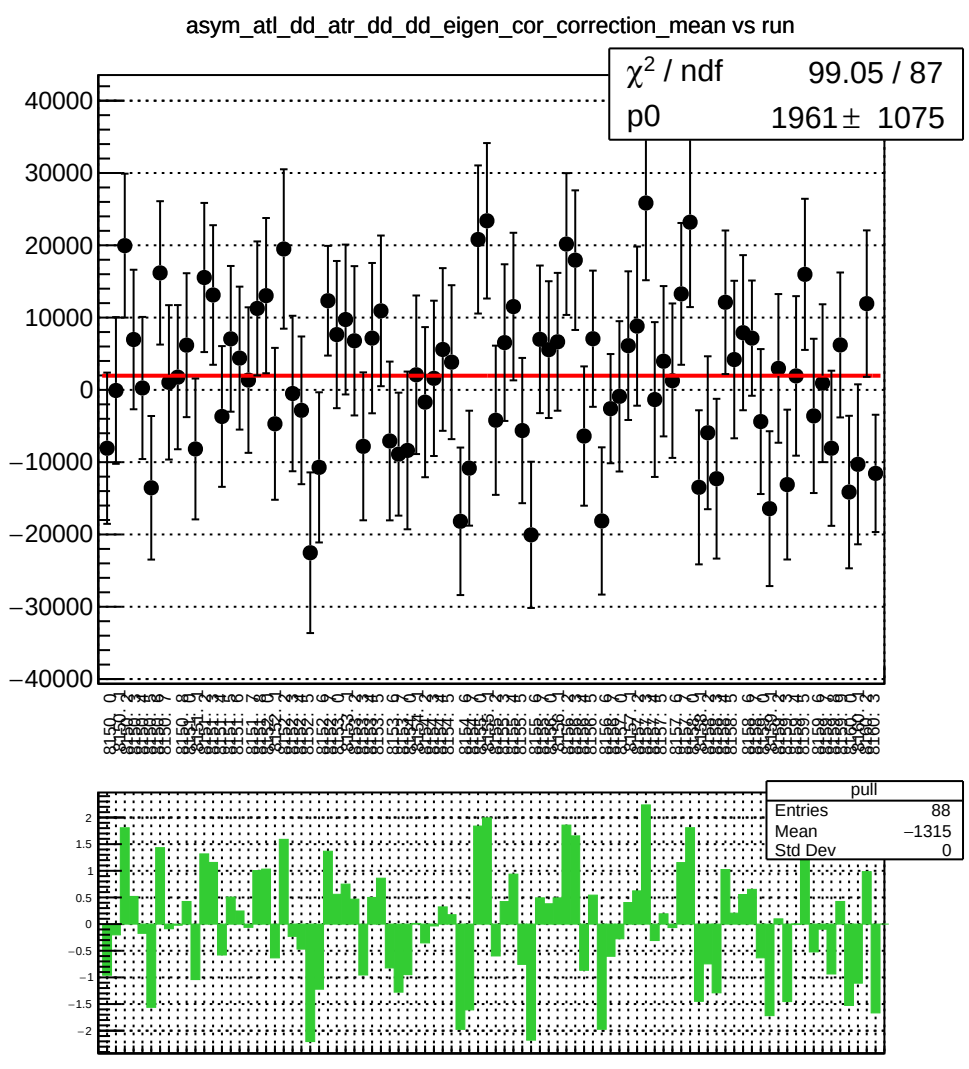

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 99.05 / 87
p0 1961 ± 1075
pull
Entries 88
Mean −1315
Std Dev 0

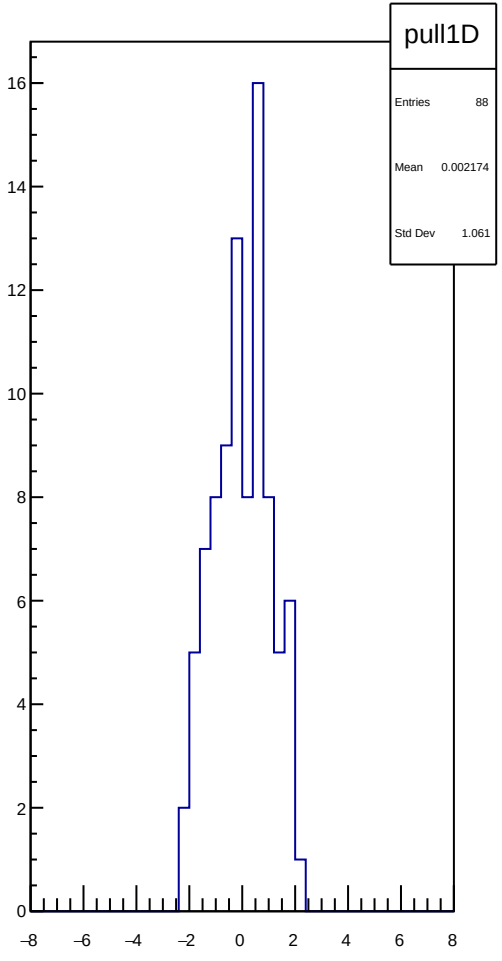

pull1D
Entries 88
Mean 0.002174
Std Dev 1.061

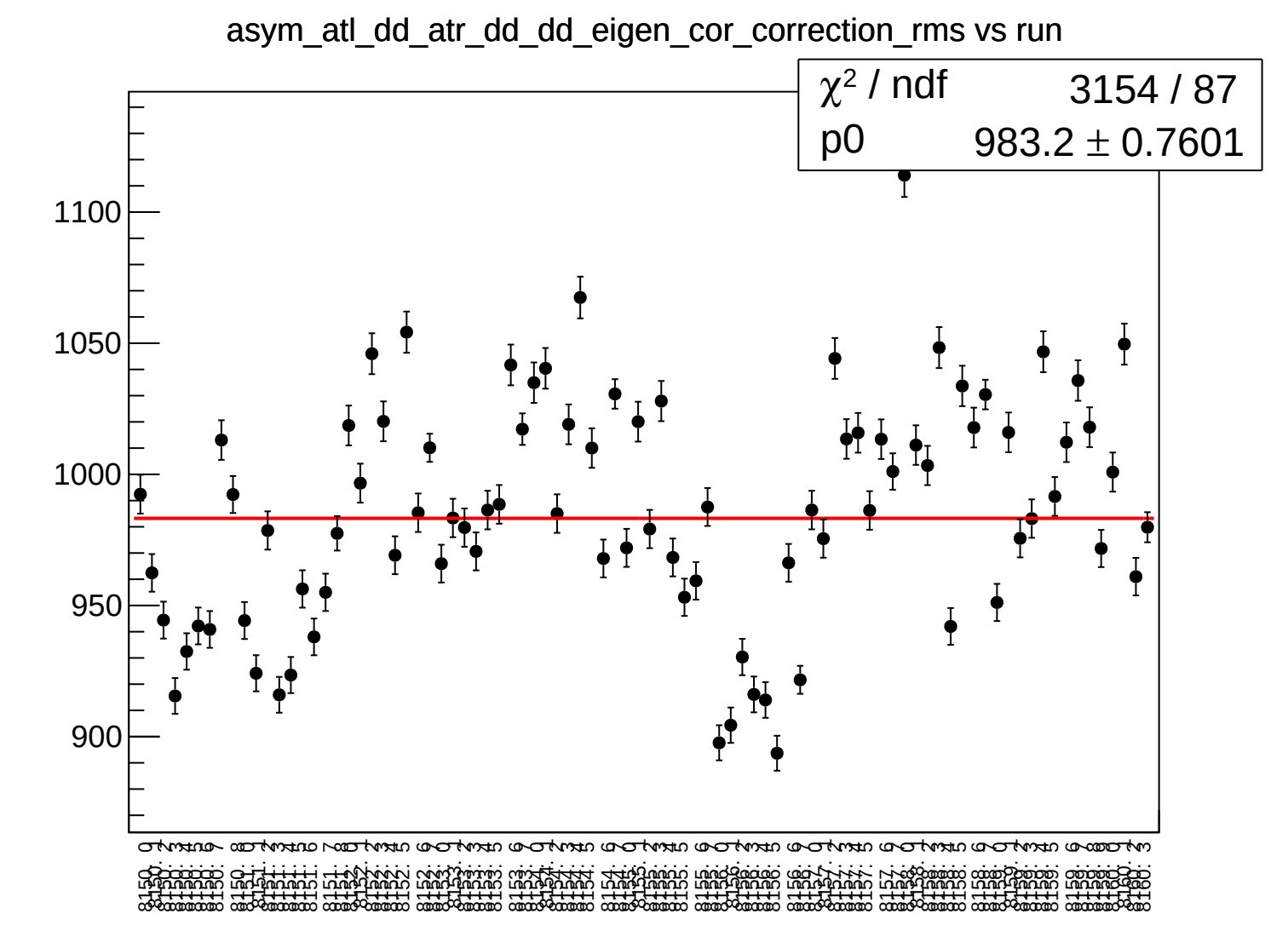

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 3154 / 87
p0 983.2 ± 0.7601
1100
1050
1000
950
900

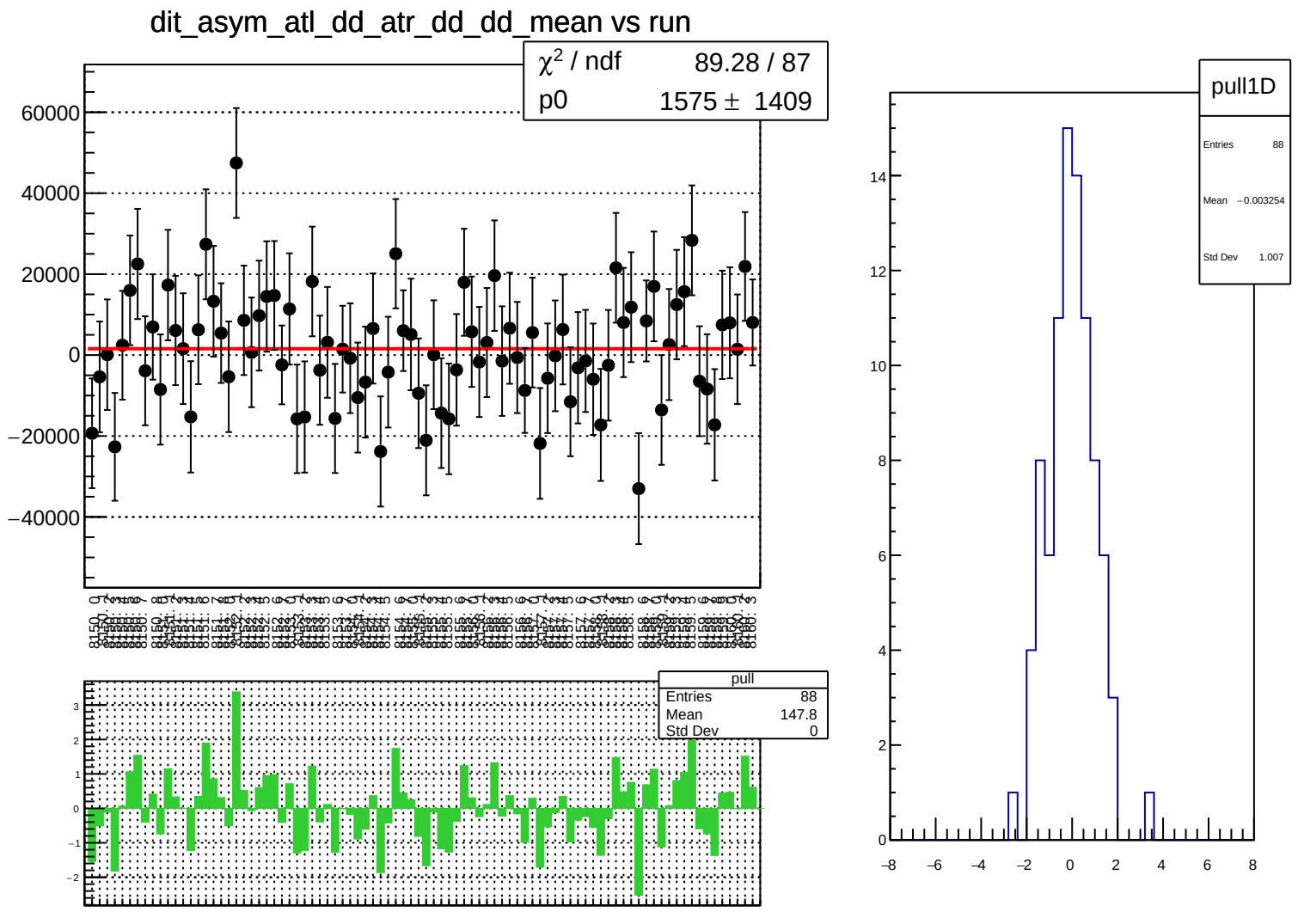

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.44 / 87
p0 1597 ± 1408
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 147.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003499
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

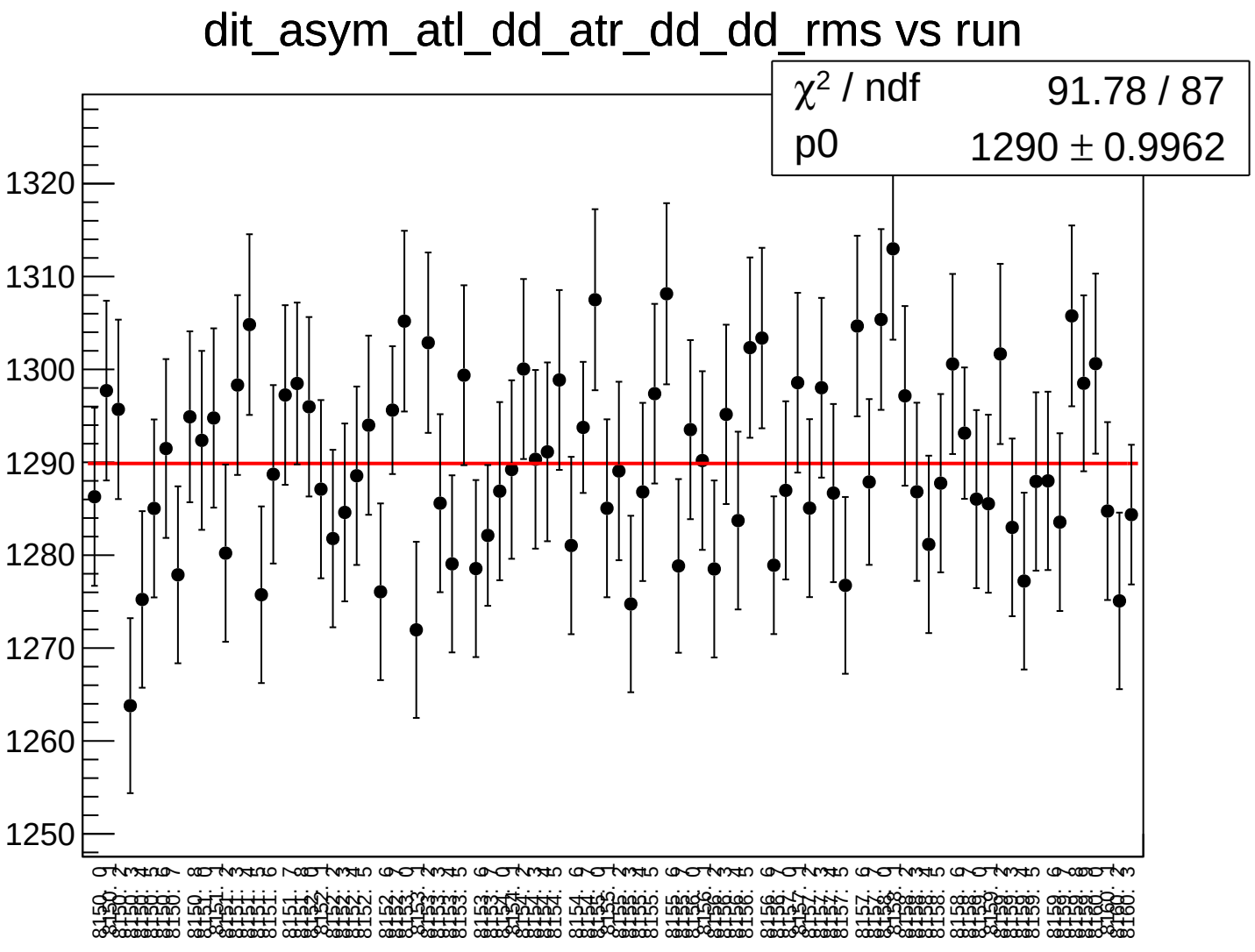

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 92.01 / 87
p0 1289 ± 0.9959
1320
1310
1300
1290
1280
1270
1260
1250

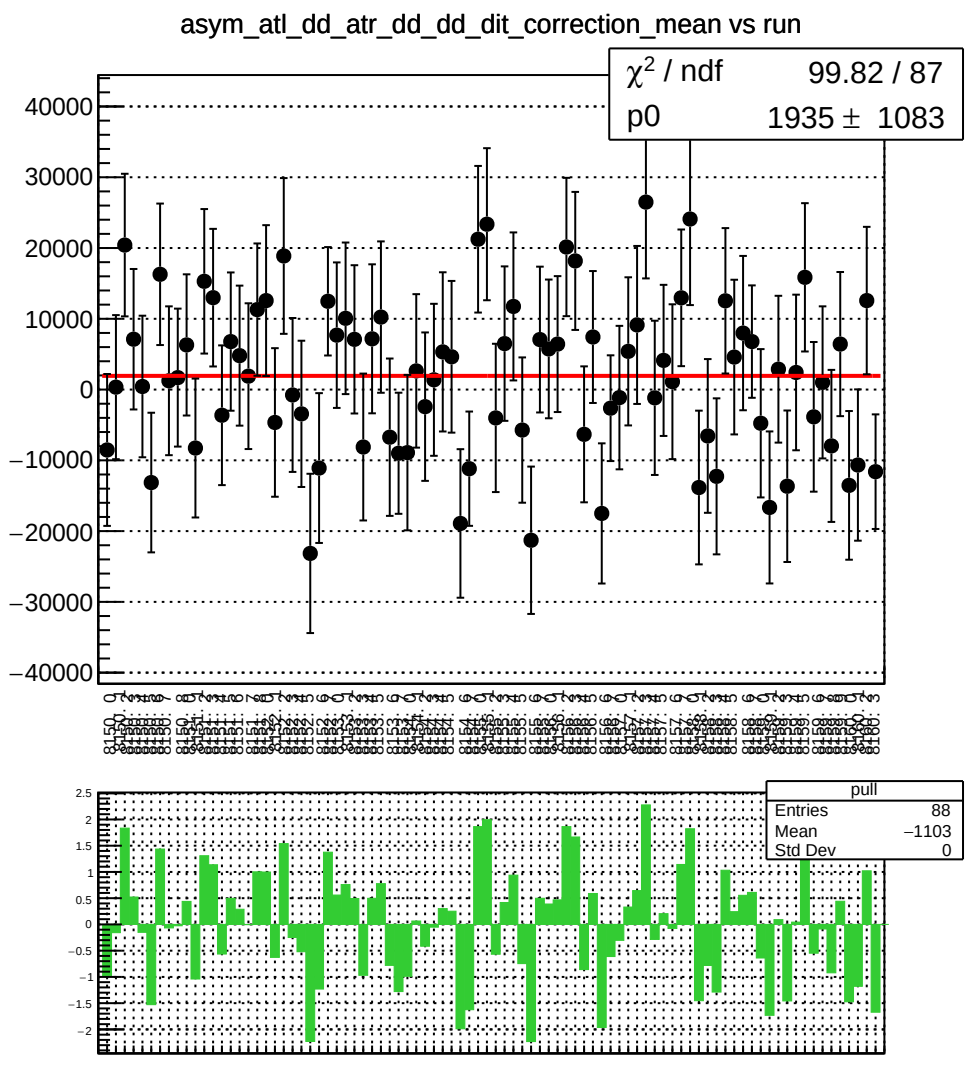

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.05 / 87
p0 1961 ± 1075
pull
Entries 88
Mean −1315
Std Dev 0

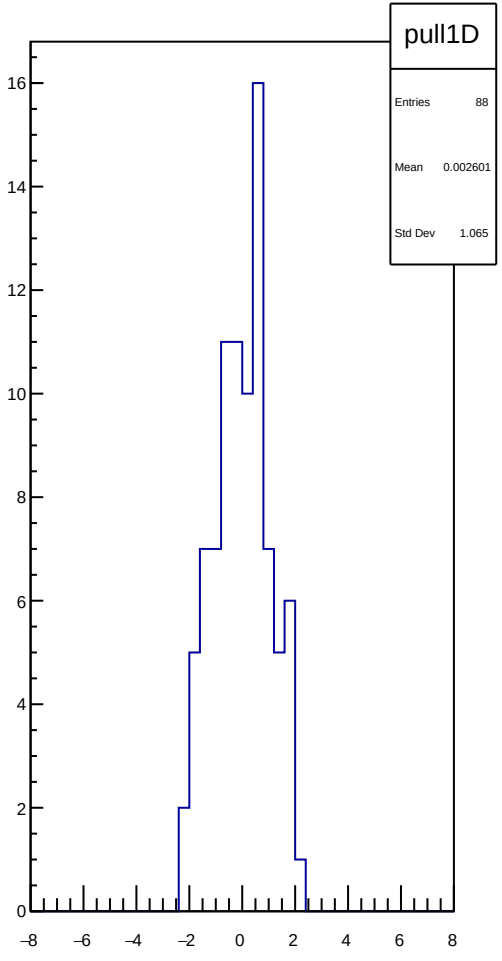

pull1D
Entries 88
Mean 0.002174
Std Dev 1.061

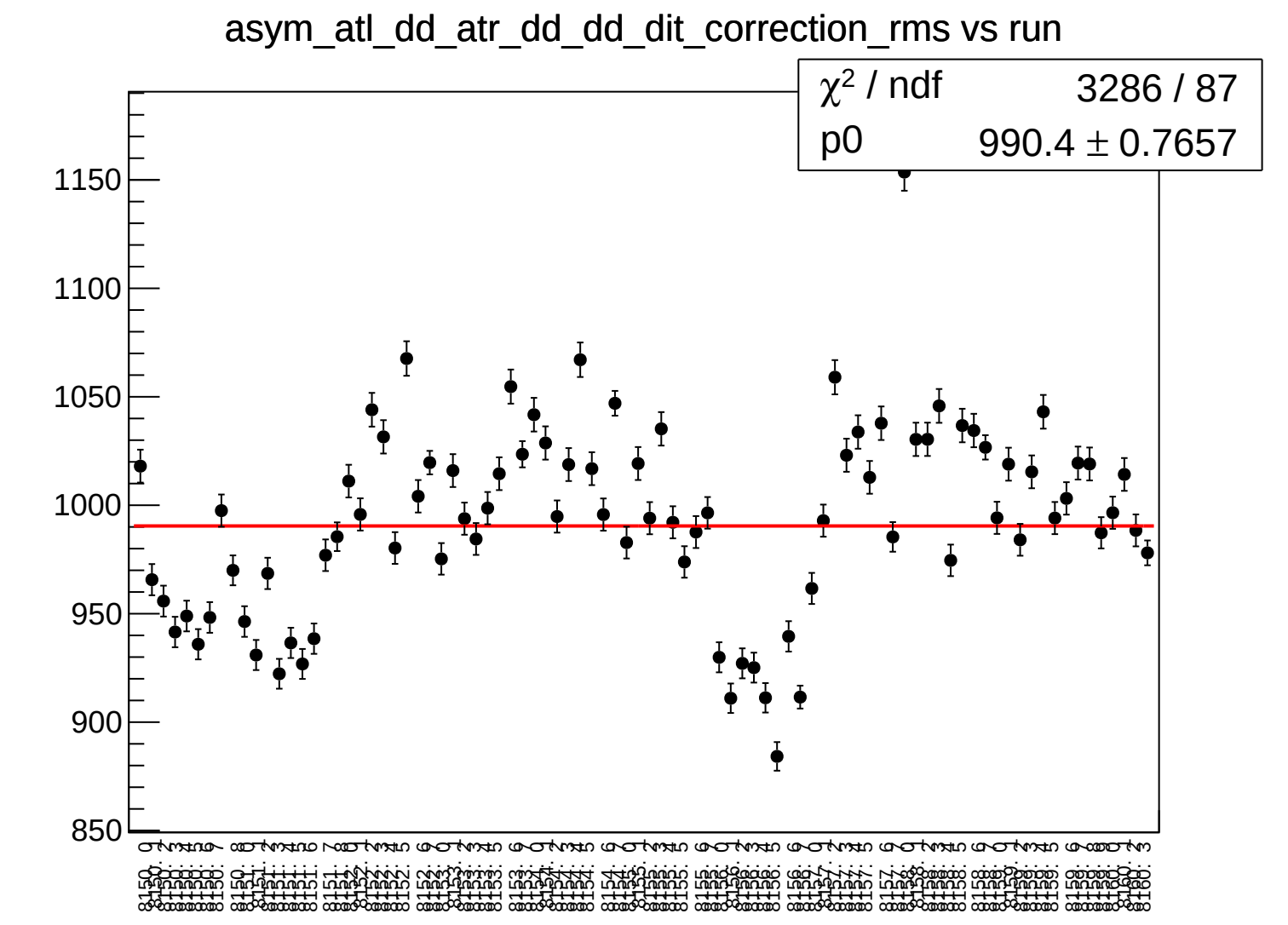

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3154 / 87
p0 983.2 ± 0.7601
1100
1050
1000
950
900

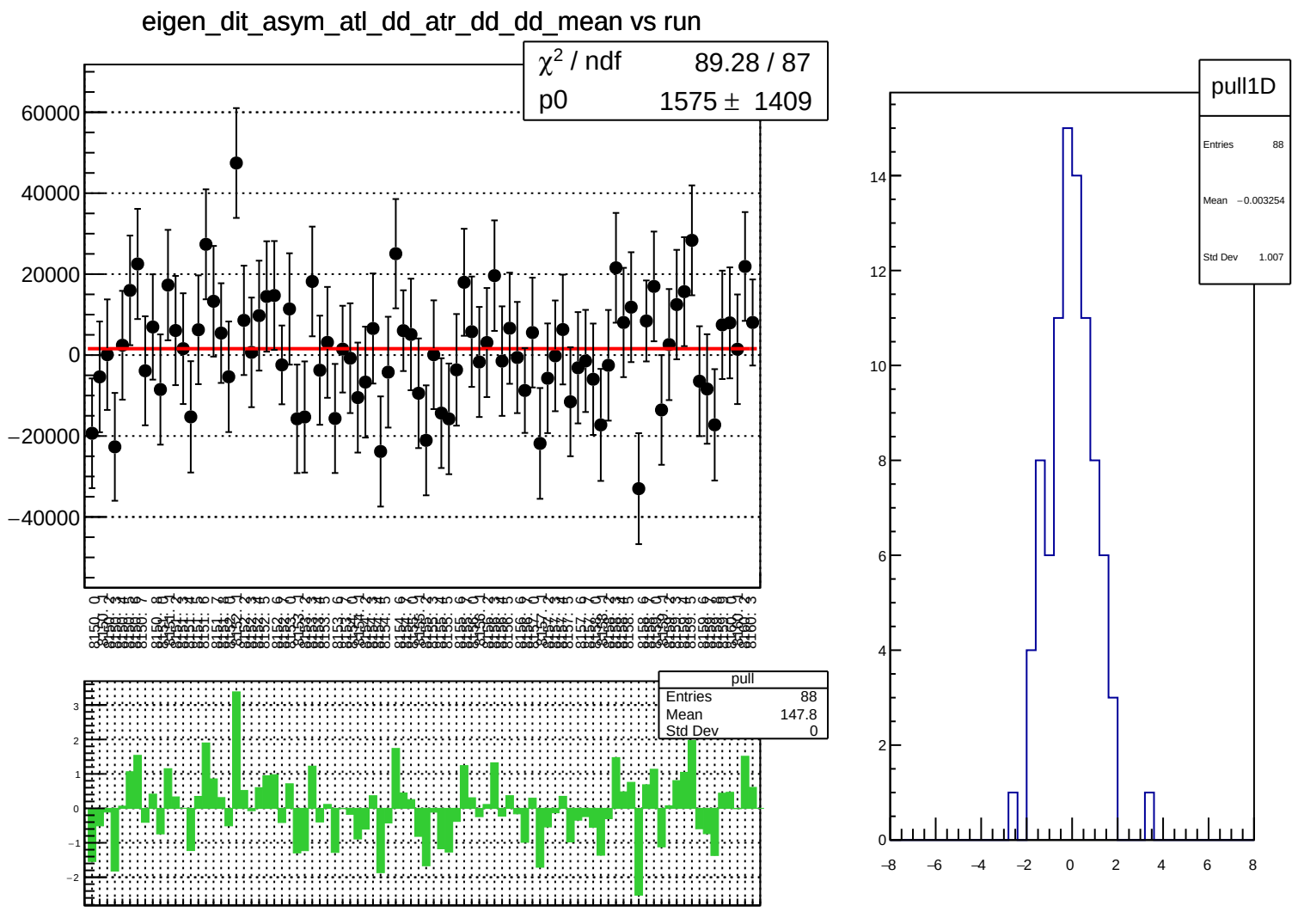

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.28 / 87
p0 1575 ± 1409
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 147.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003254
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

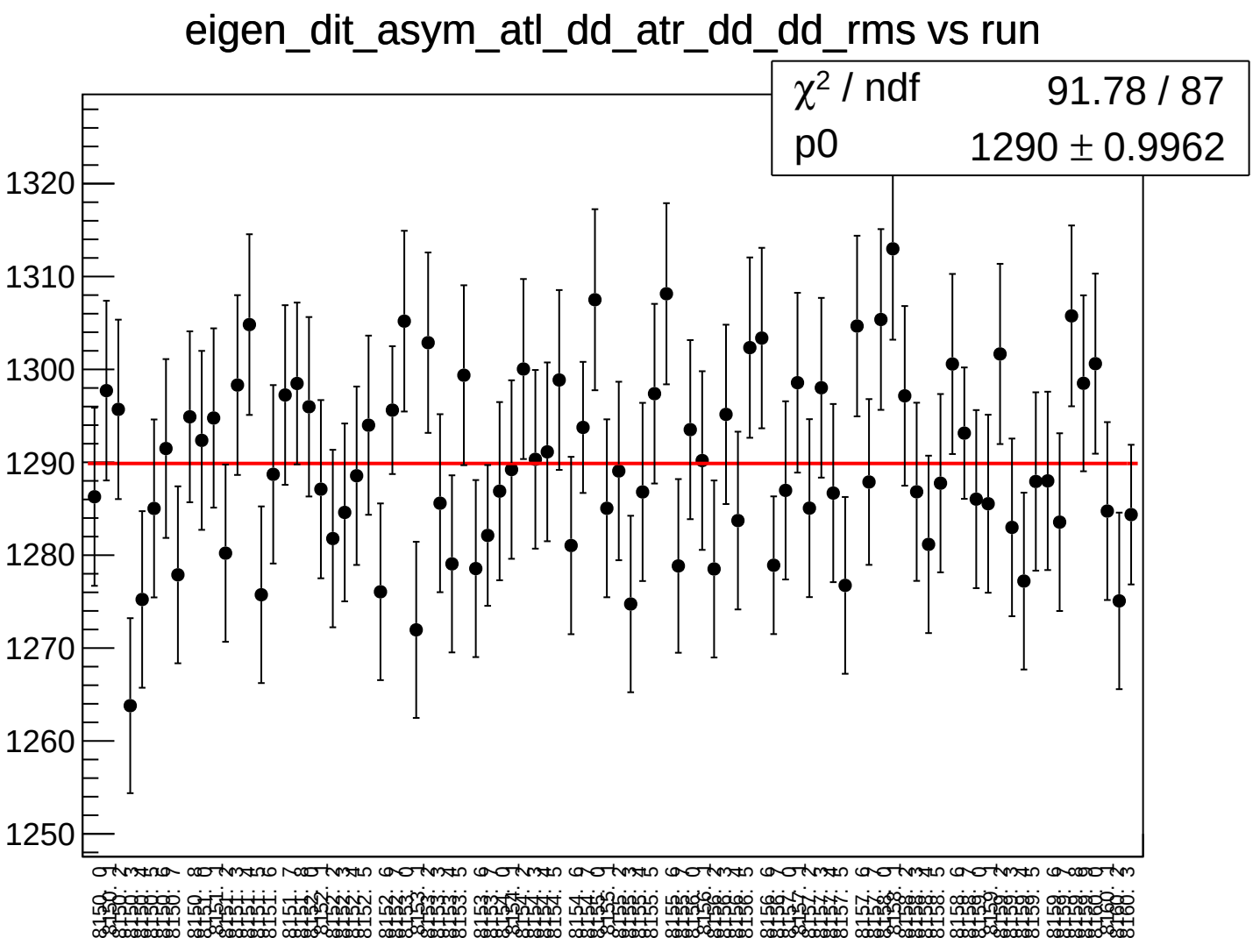

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 91.78 / 87
p0 1290 ± 0.9962
1320
1310
1300
1290
1280
1270
1260
1250

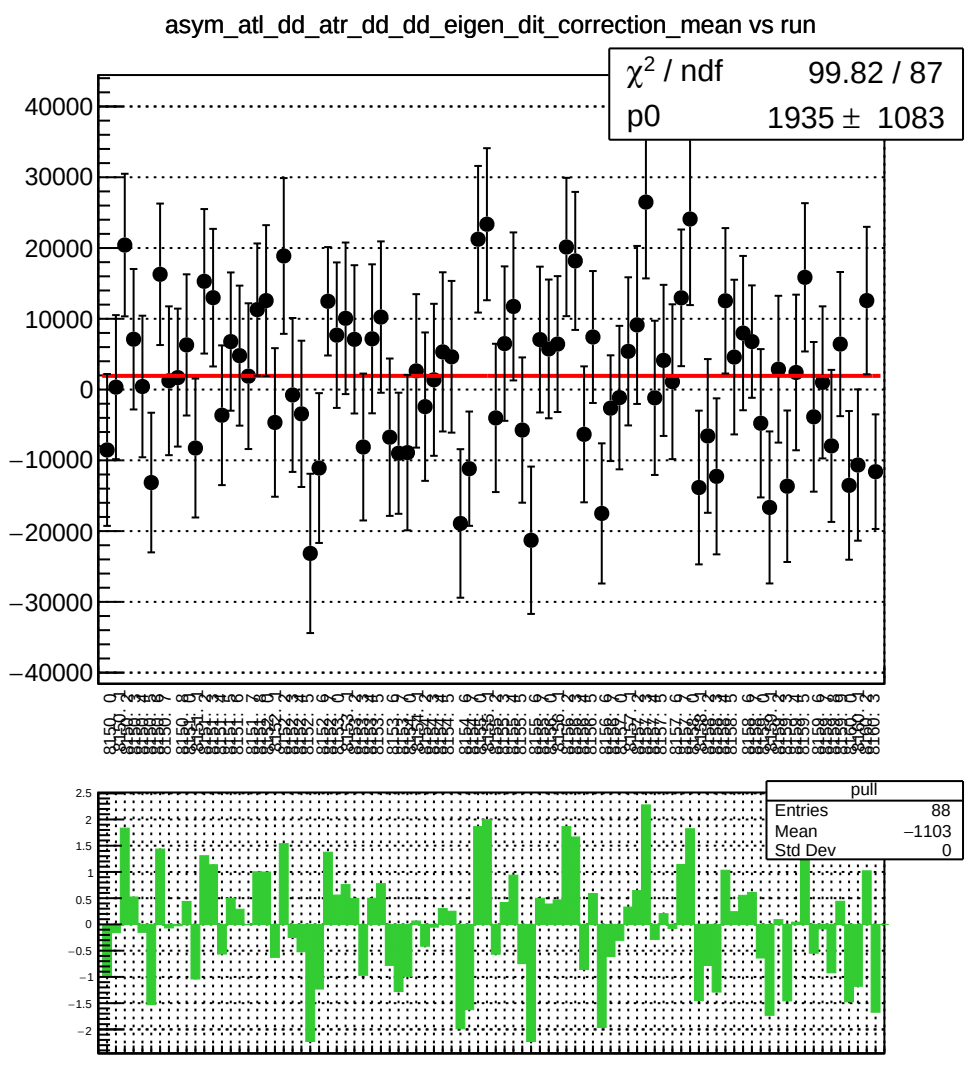

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 99.82 / 87
p0 1935 ± 1083
pull
Entries 88
Mean −1103
Std Dev 0

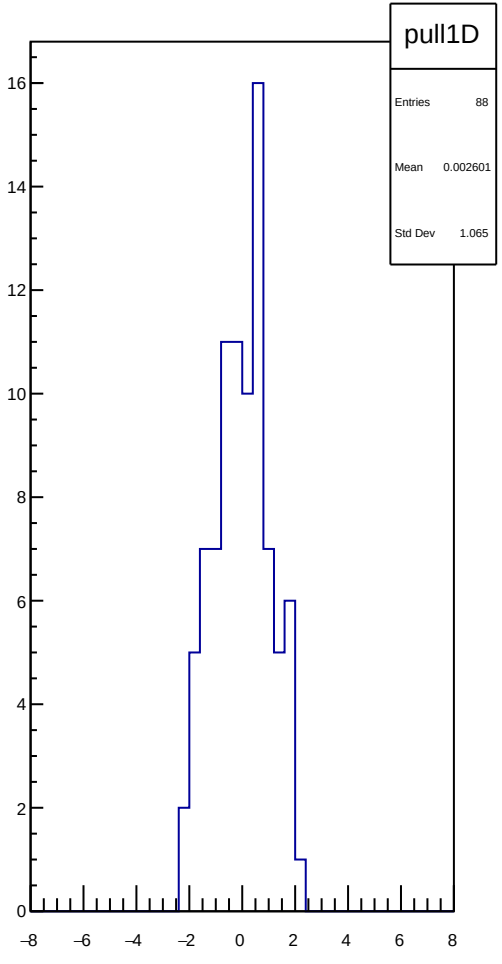

pull1D
Entries 88
Mean 0.002601
Std Dev 1.065

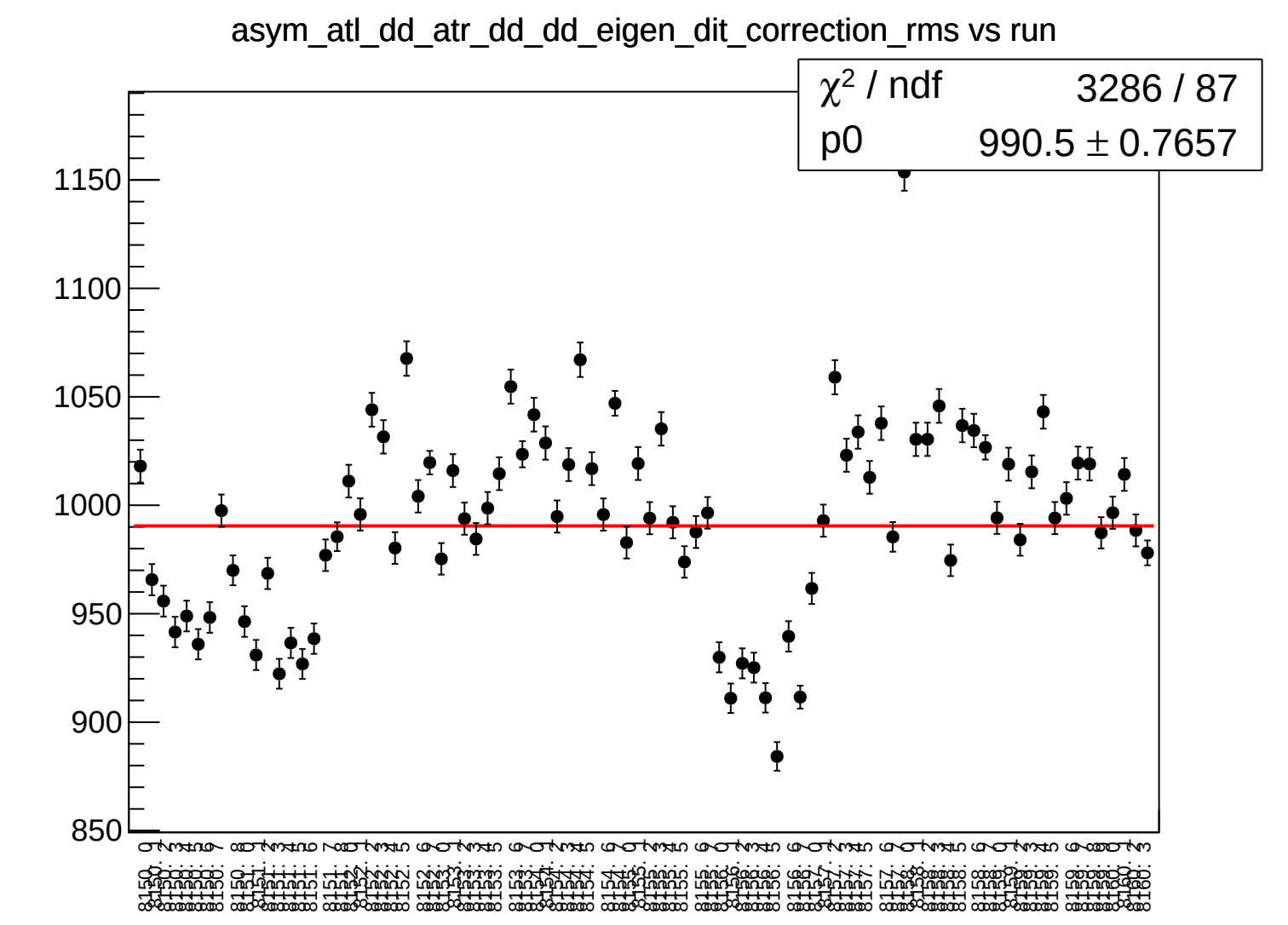

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 3286 / 87
p0 990.4 ± 0.7657
1150
1100
1050
1000
950
900
850

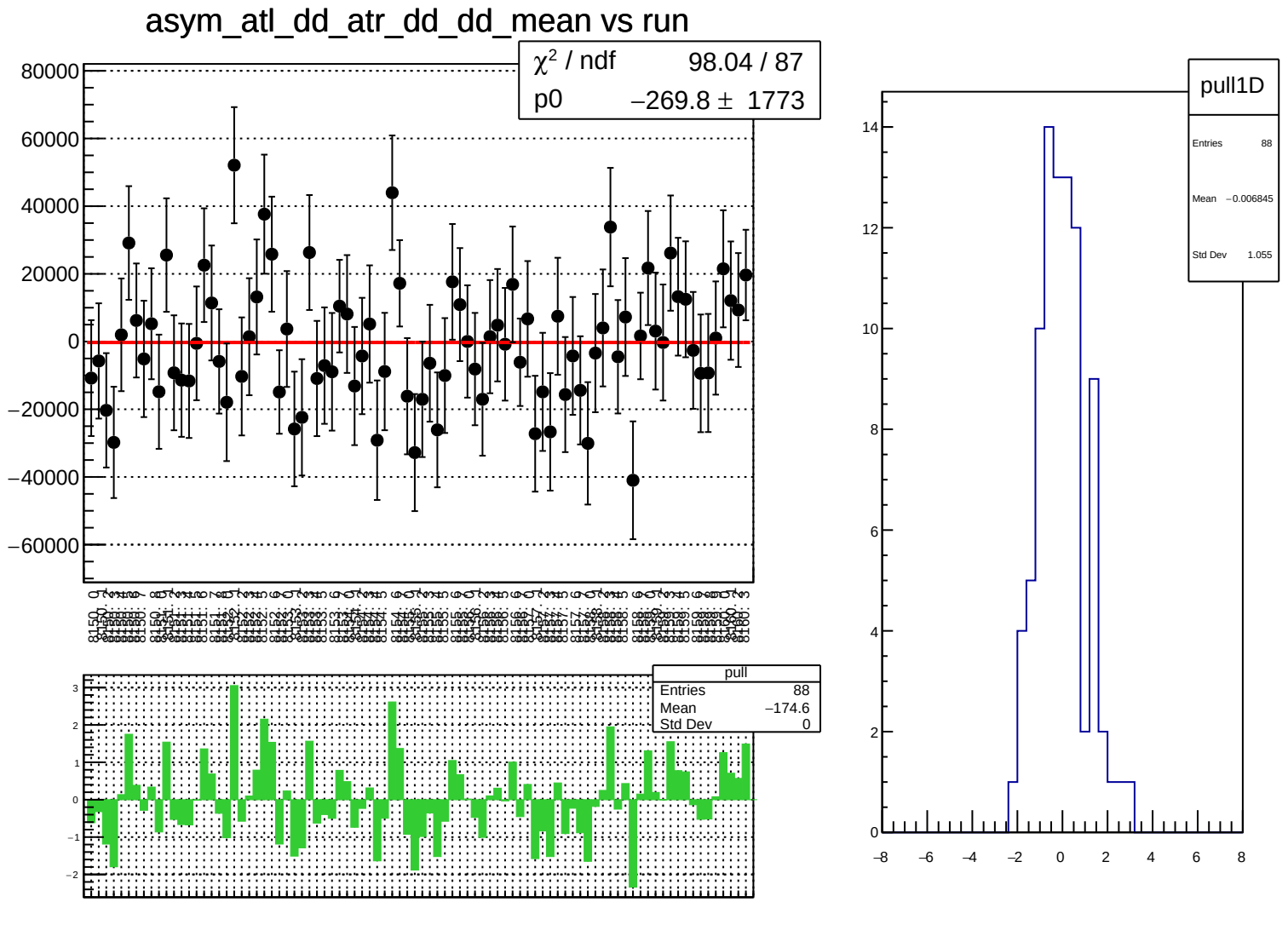

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.28 / 87
p0 1575 ± 1409
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 147.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003254
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

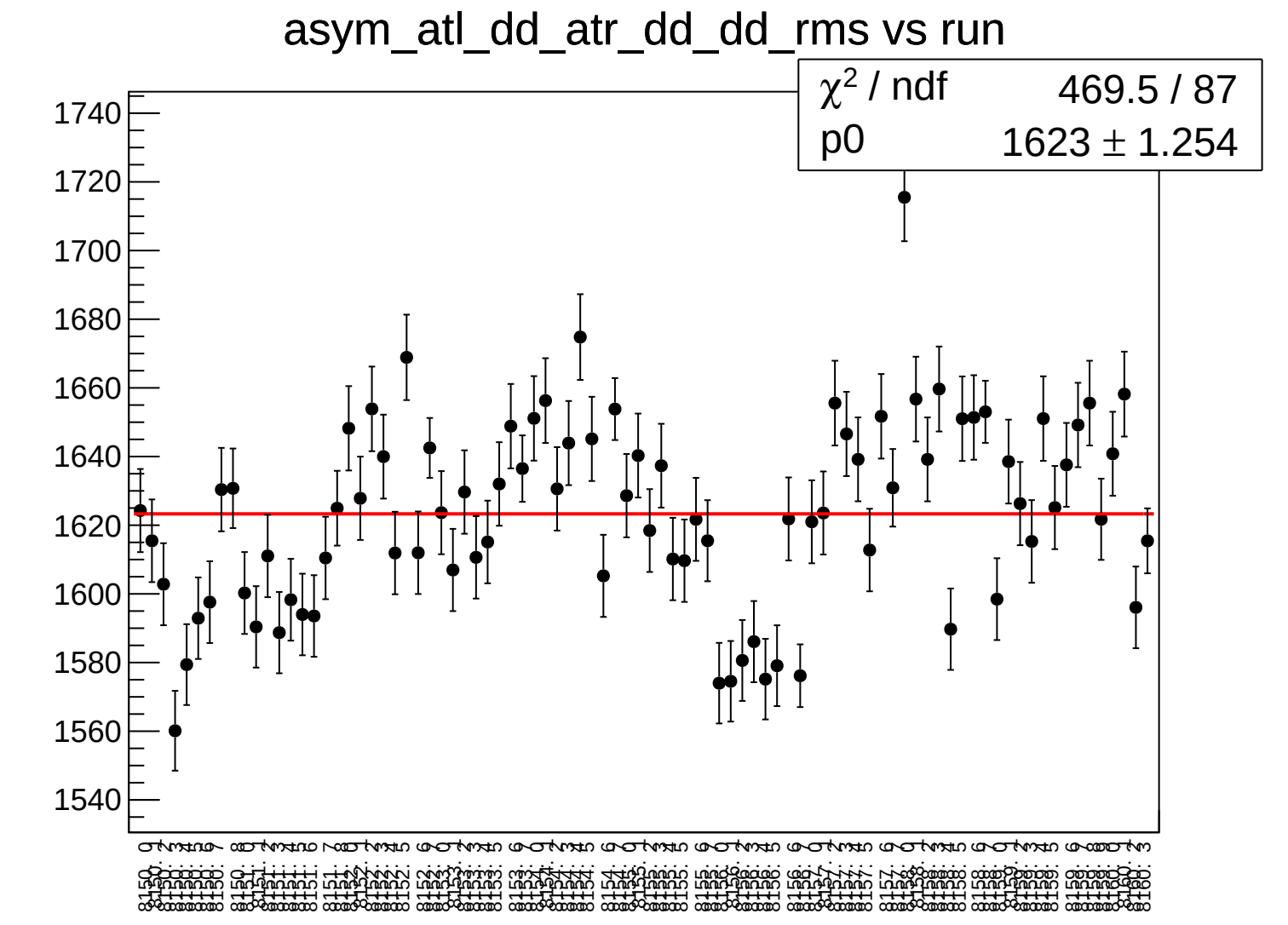

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 91.78 / 87
p0 1290 ± 0.9962
1320
1310
1300
1290
1280
1270
1260
1250

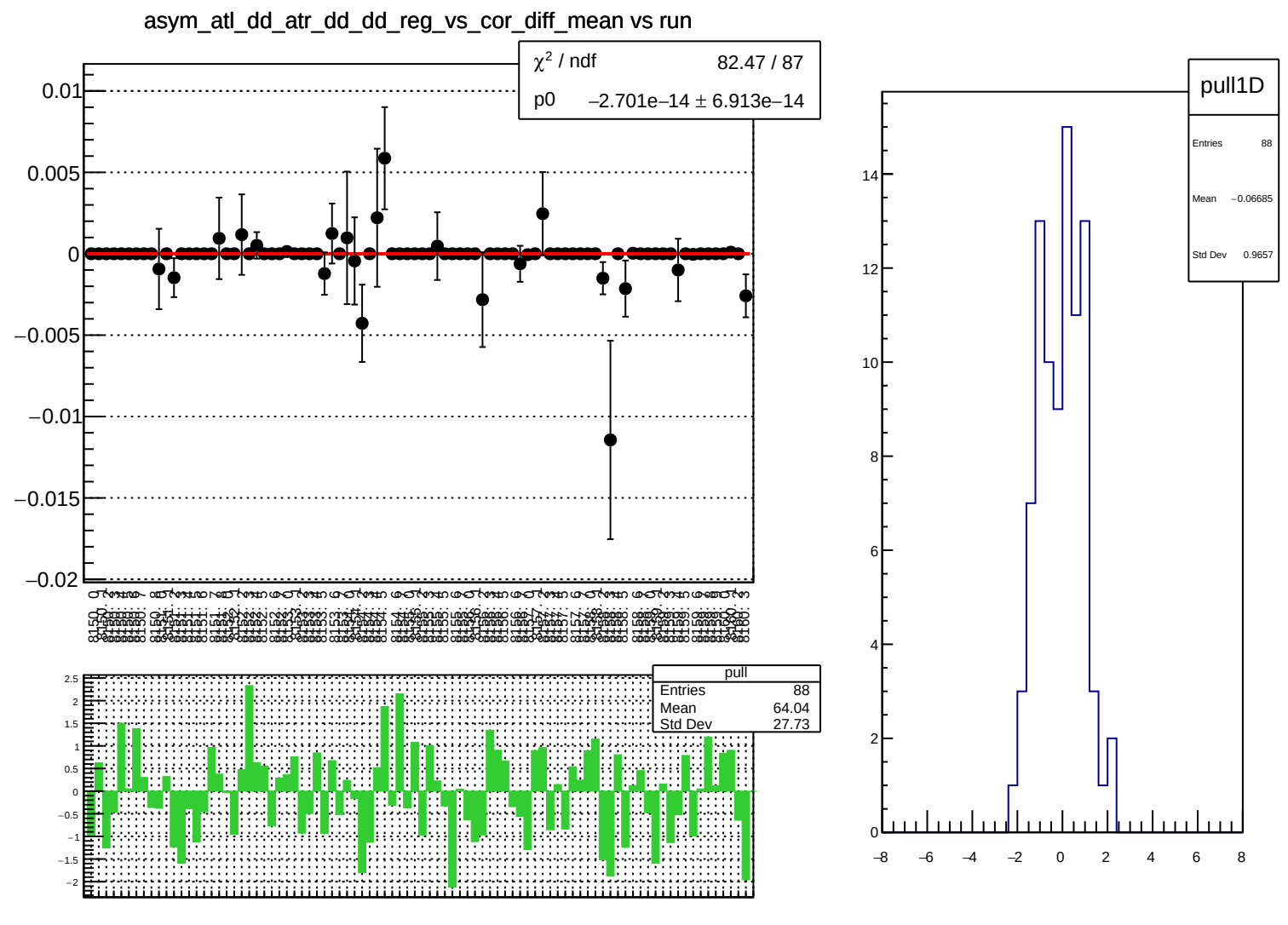

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.82 / 87
p0 1935 ± 1083
pull
Entries 88
Mean −1103
Std Dev 0

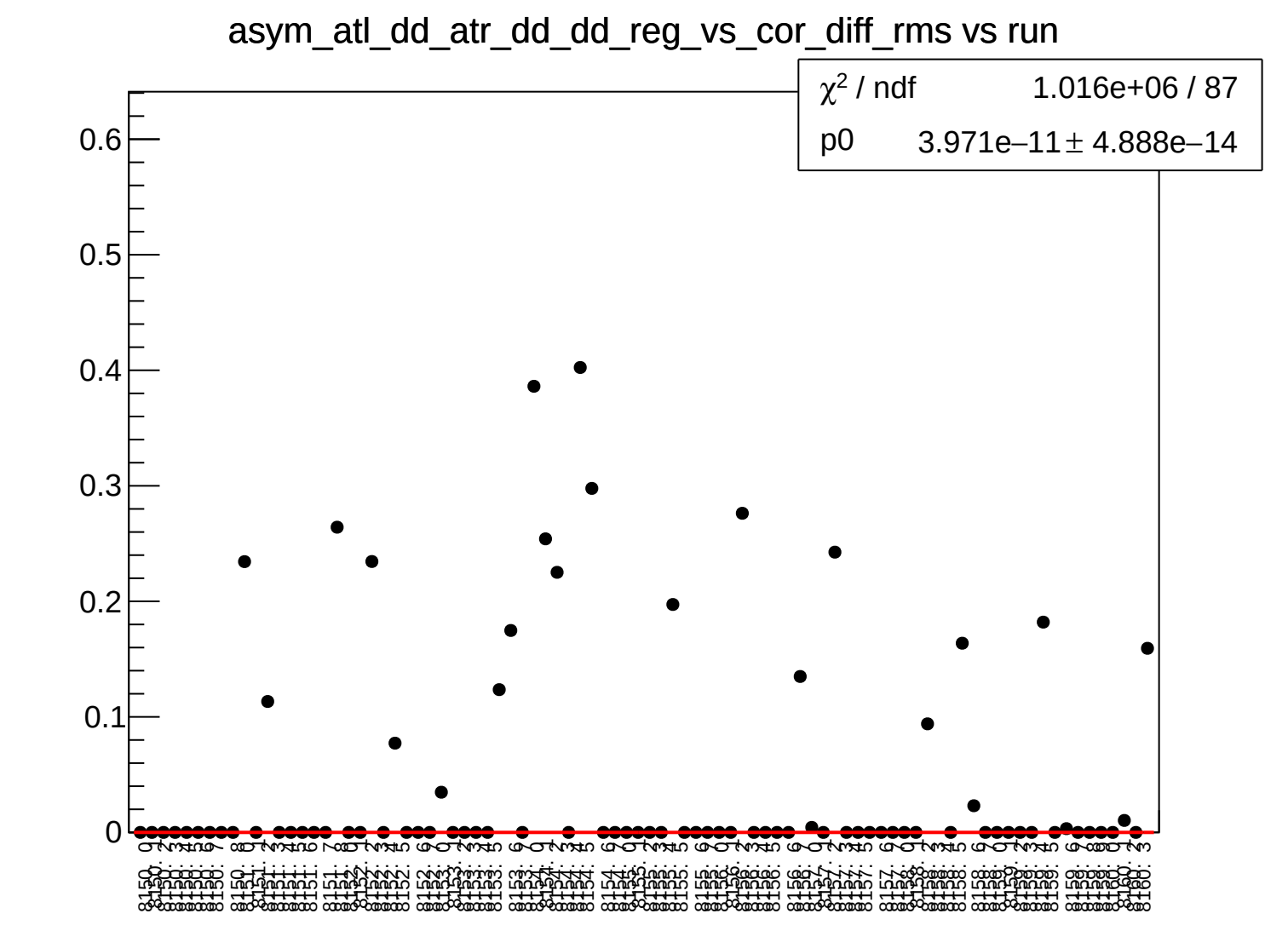

pull1D
Entries 88
Mean 0.002601
Std Dev 1.065

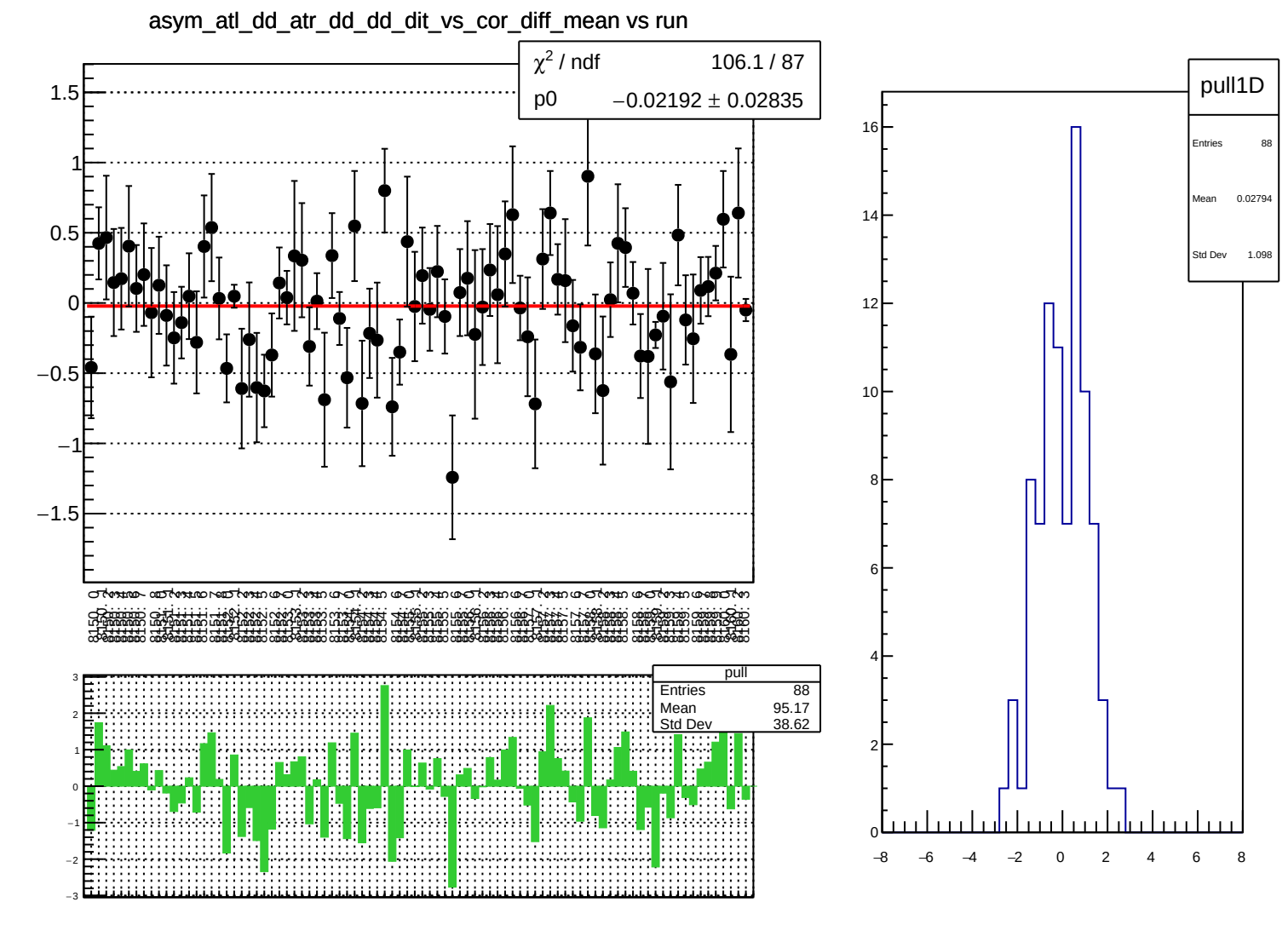

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3286 / 87
p0 990.5 ± 0.7657
1150
1100
1050
1000
950
900
850

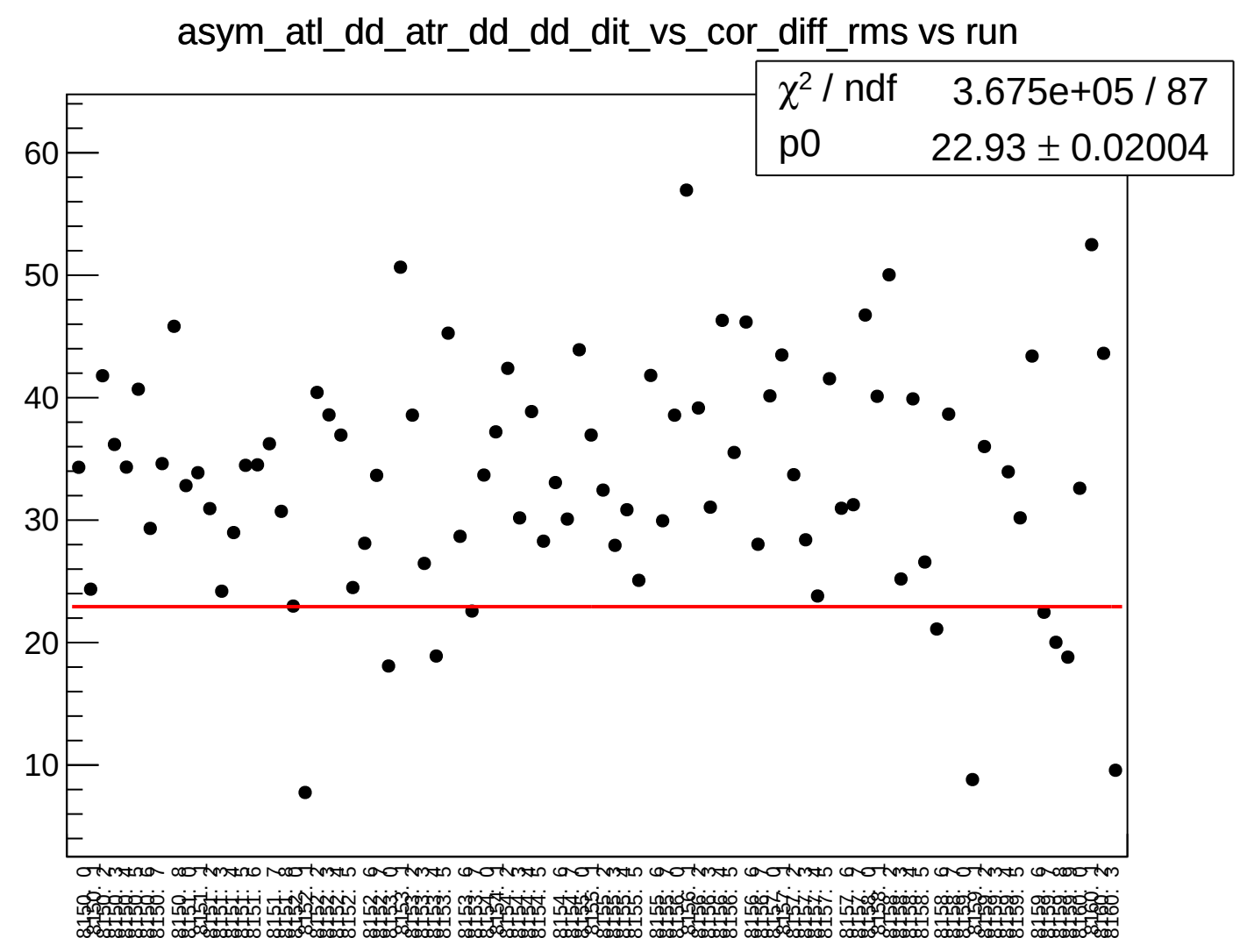

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 98.04 / 87
p0 −269.8 ± 1773
pull
Entries 88
Mean −174.6
Std Dev 0
pull1D
Entries 88
Mean −0.006845
Std Dev 1.055

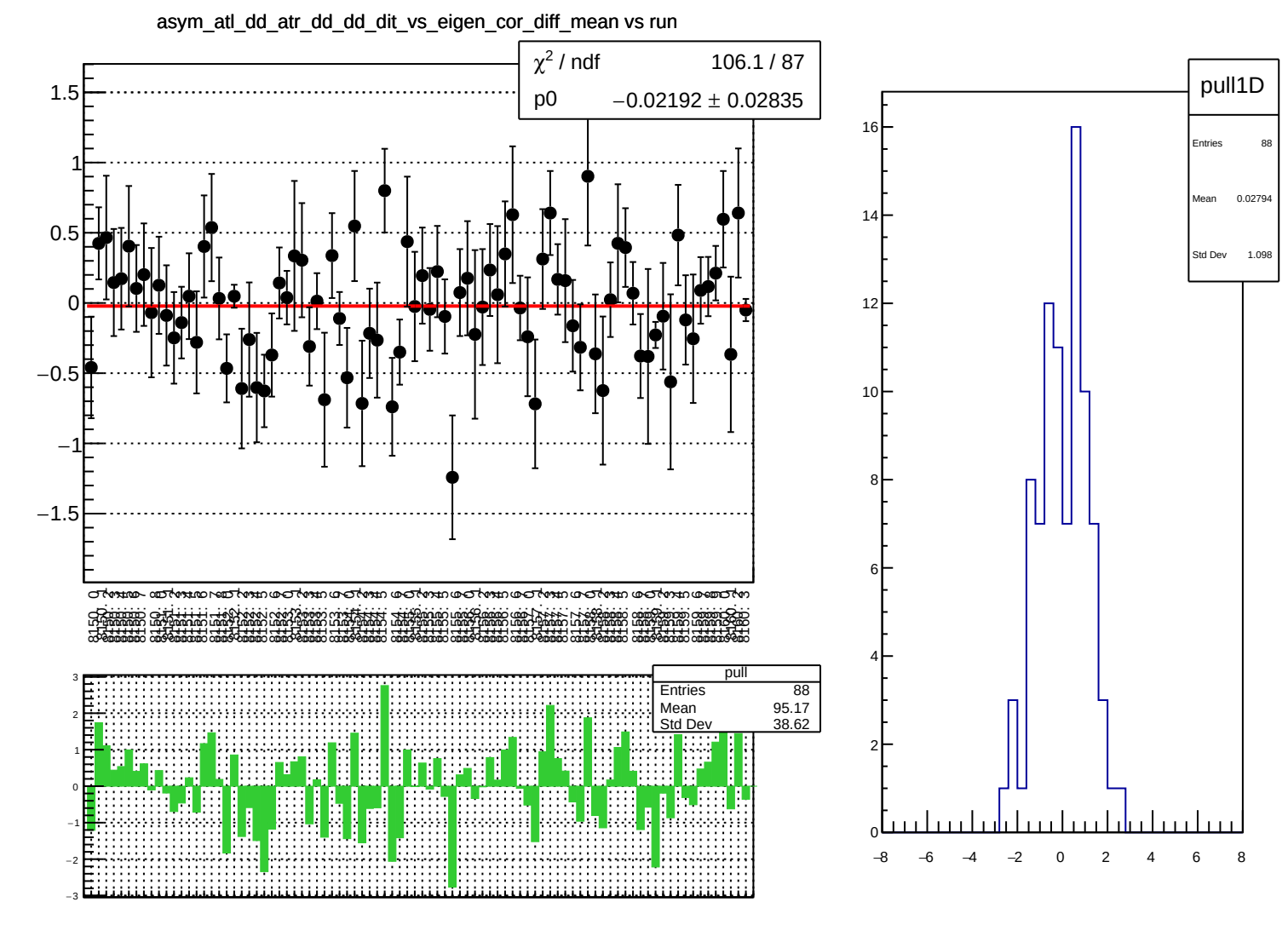

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 469.5 / 87
p0 1623 ± 1.254
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

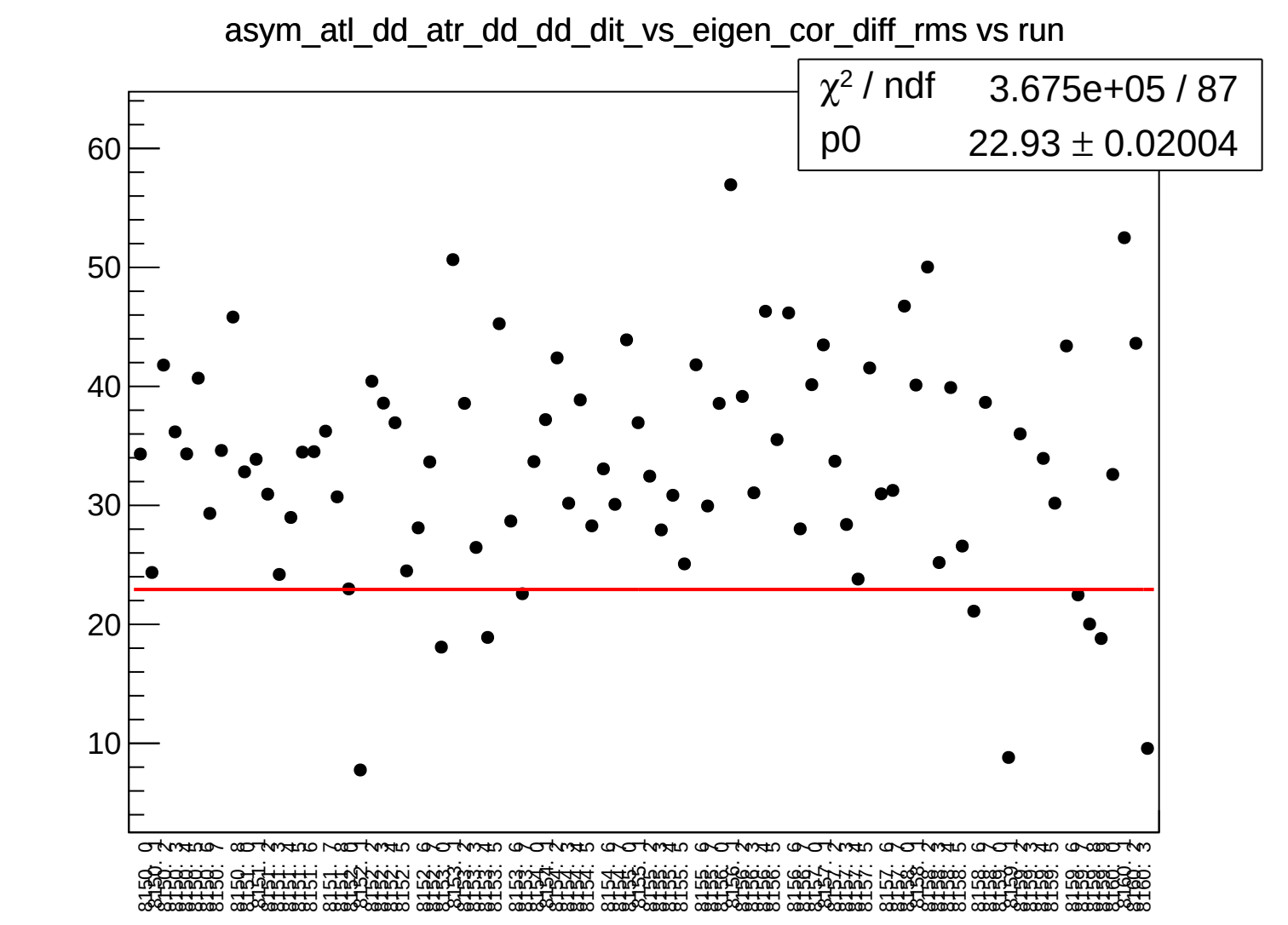

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.47 / 87
p0 −2.701e−14 ± 6.913e−14
pull
Entries 88
Mean 64.04
Std Dev 27.73
pull1D
Entries 88
Mean −0.06685
Std Dev 0.9657

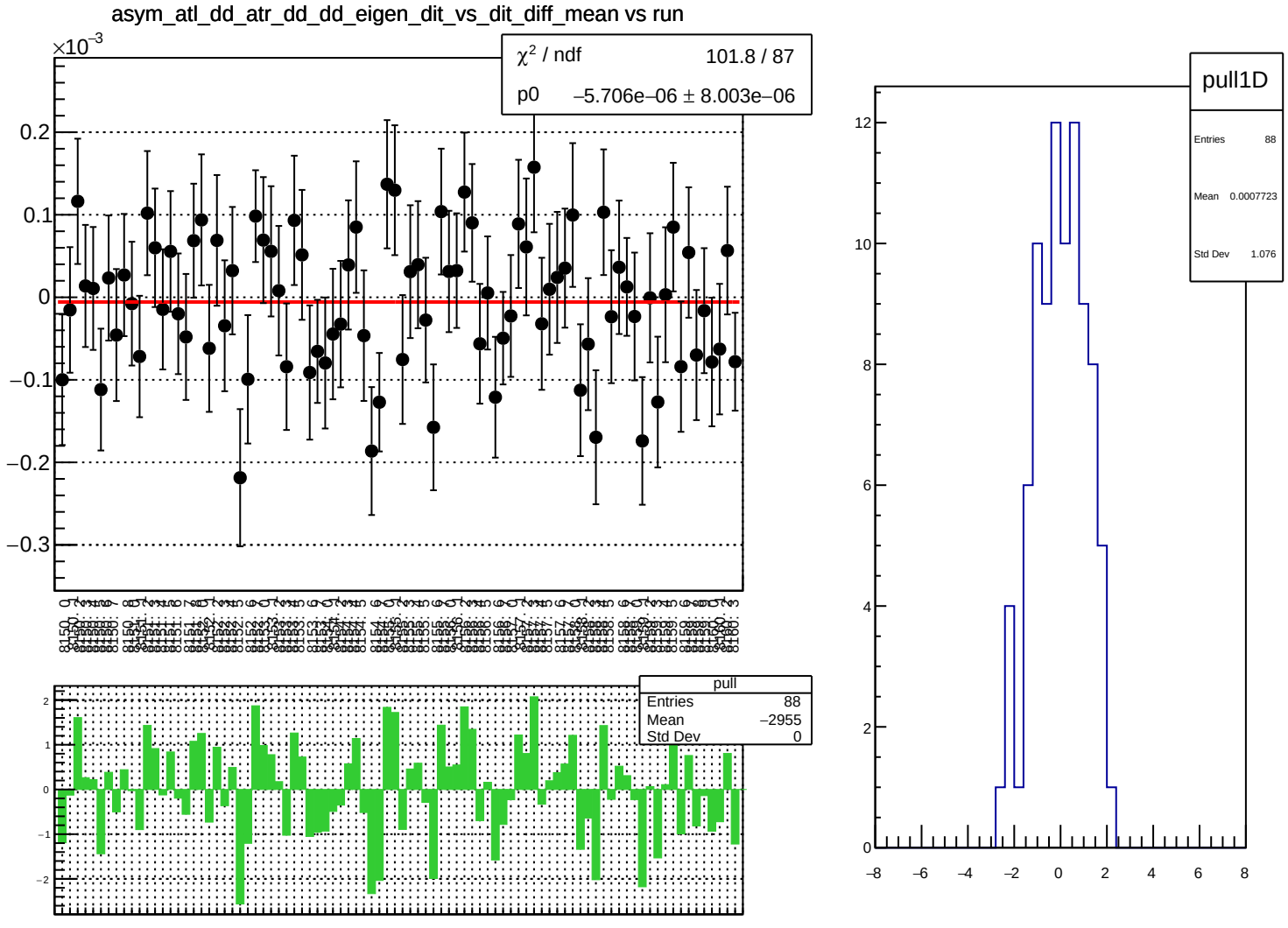

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.016e+06 / 87
p0 3.971e−11 ± 4.888e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

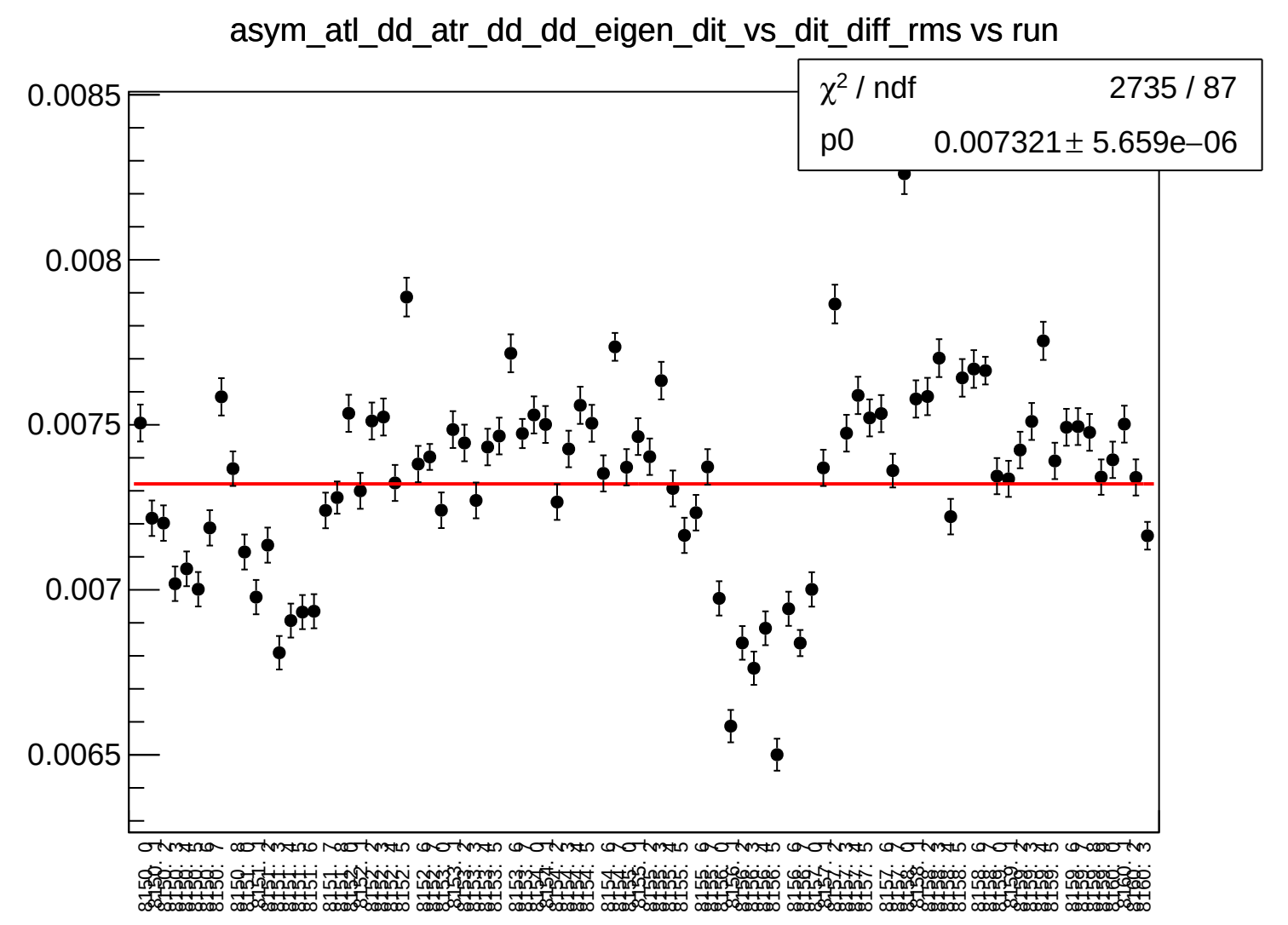

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.1 / 87
p0 −0.02192 ± 0.02835
pull
Entries 88
Mean 95.17
Std Dev 38.62
pull1D
Entries 88
Mean 0.02794
Std Dev 1.098

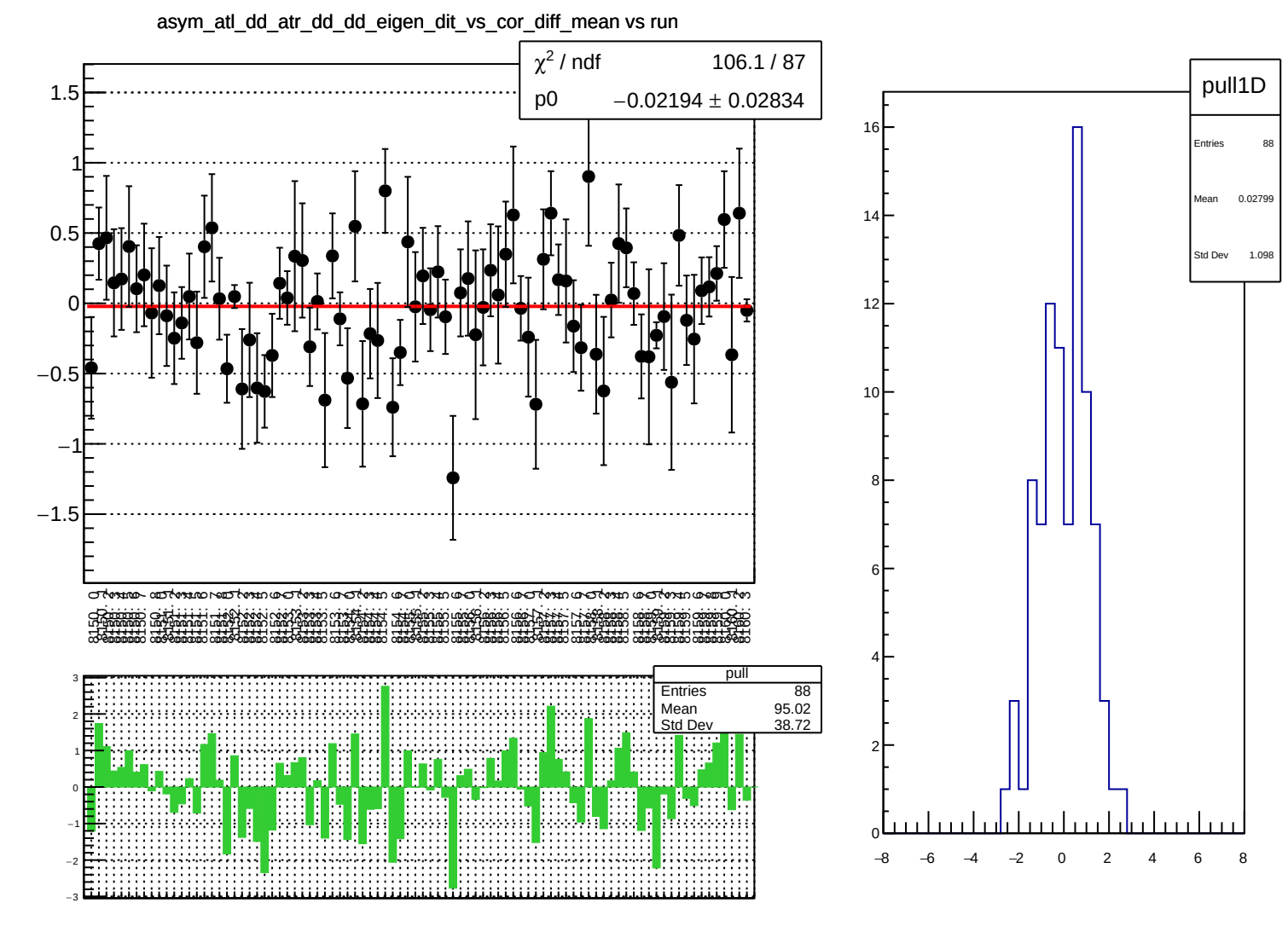

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.675e+05 / 87
p0 22.93 ± 0.02004
60
50
40
30
20
10

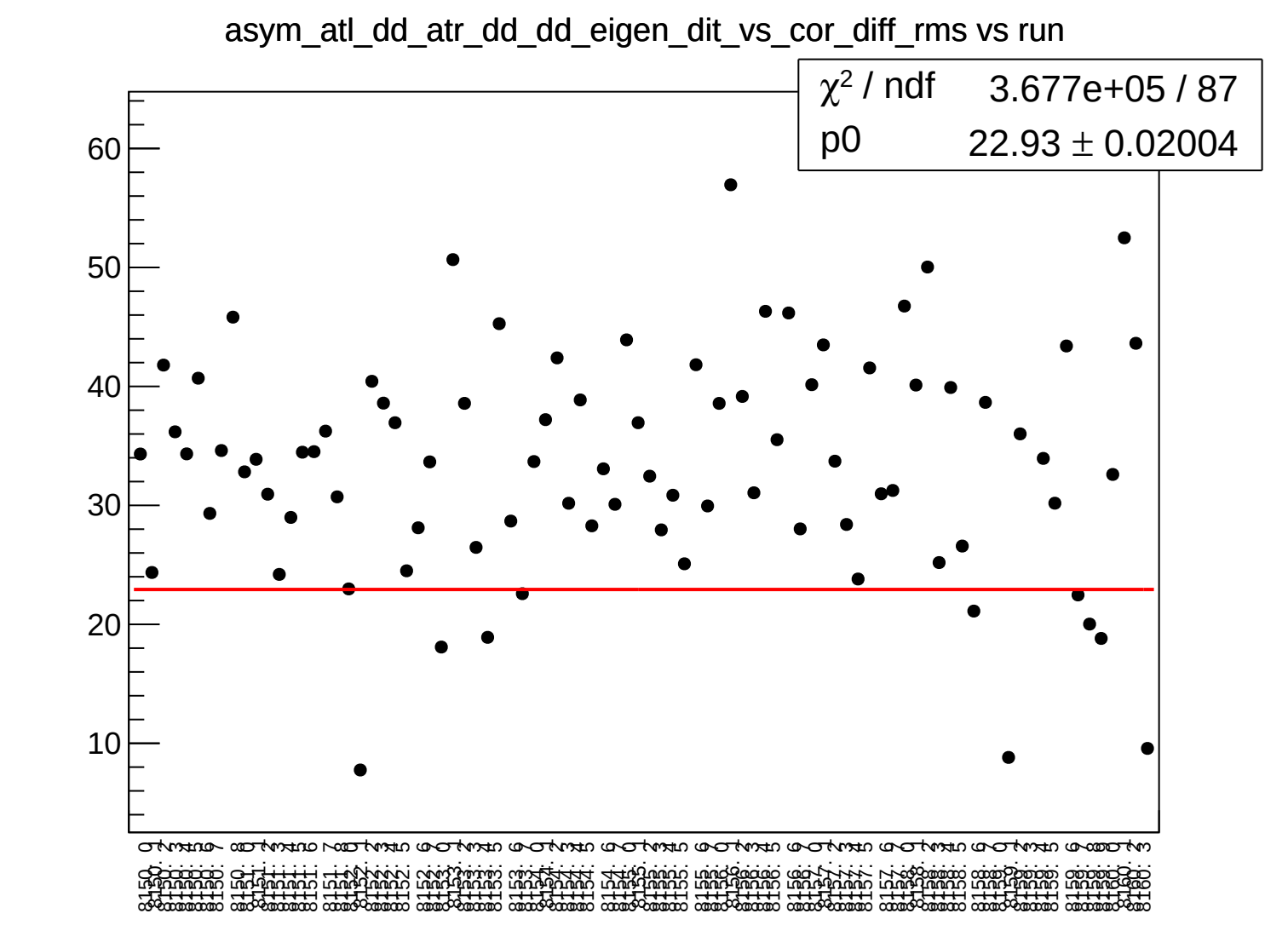

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.1 / 87
p0 −0.02192 ± 0.02835
pull
Entries 88
Mean 95.17
Std Dev 38.62
pull1D
Entries 88
Mean 0.02794
Std Dev 1.098

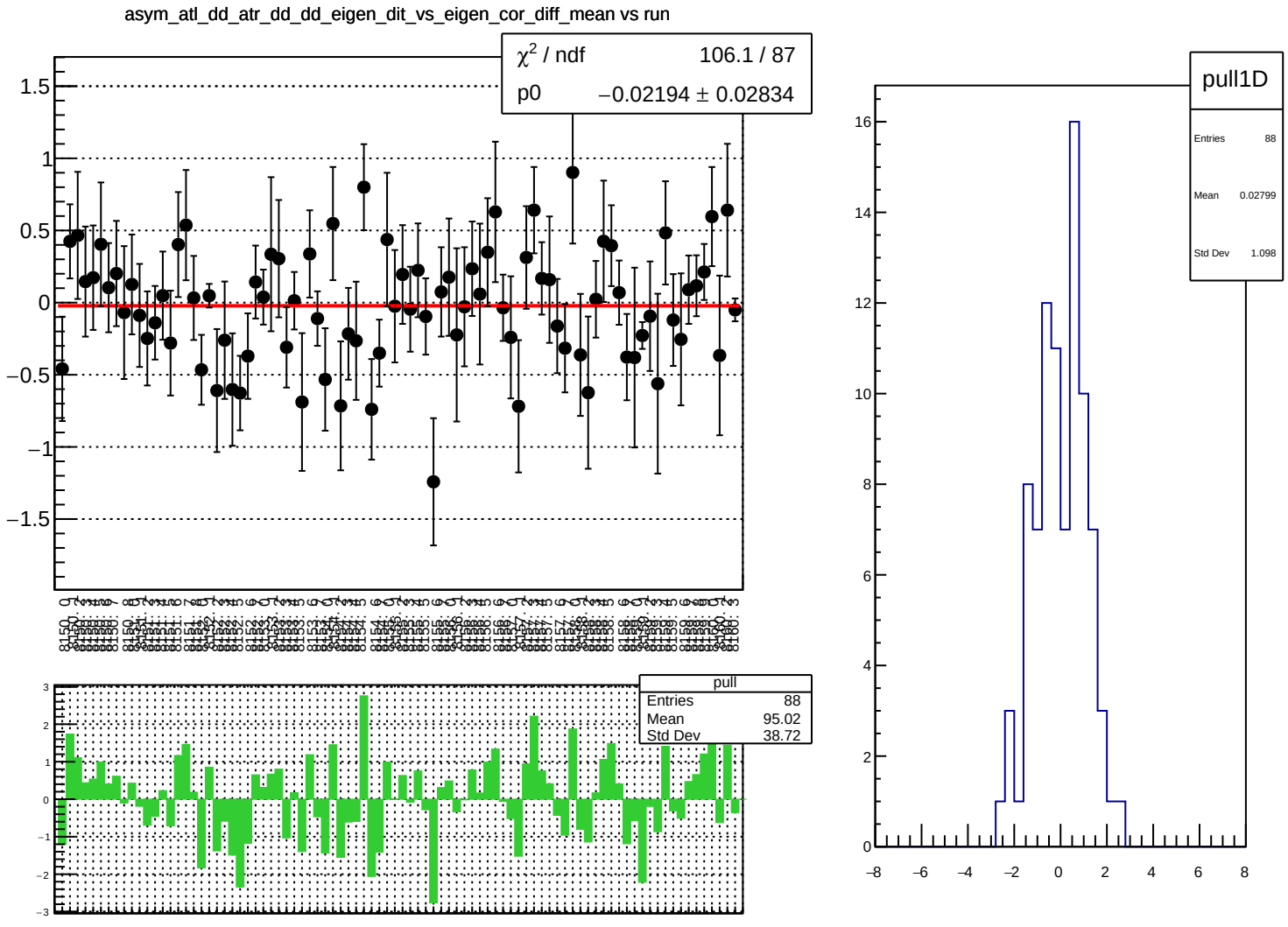

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.675e+05 / 87
p0 22.93 ± 0.02004
60
50
40
30
20
10

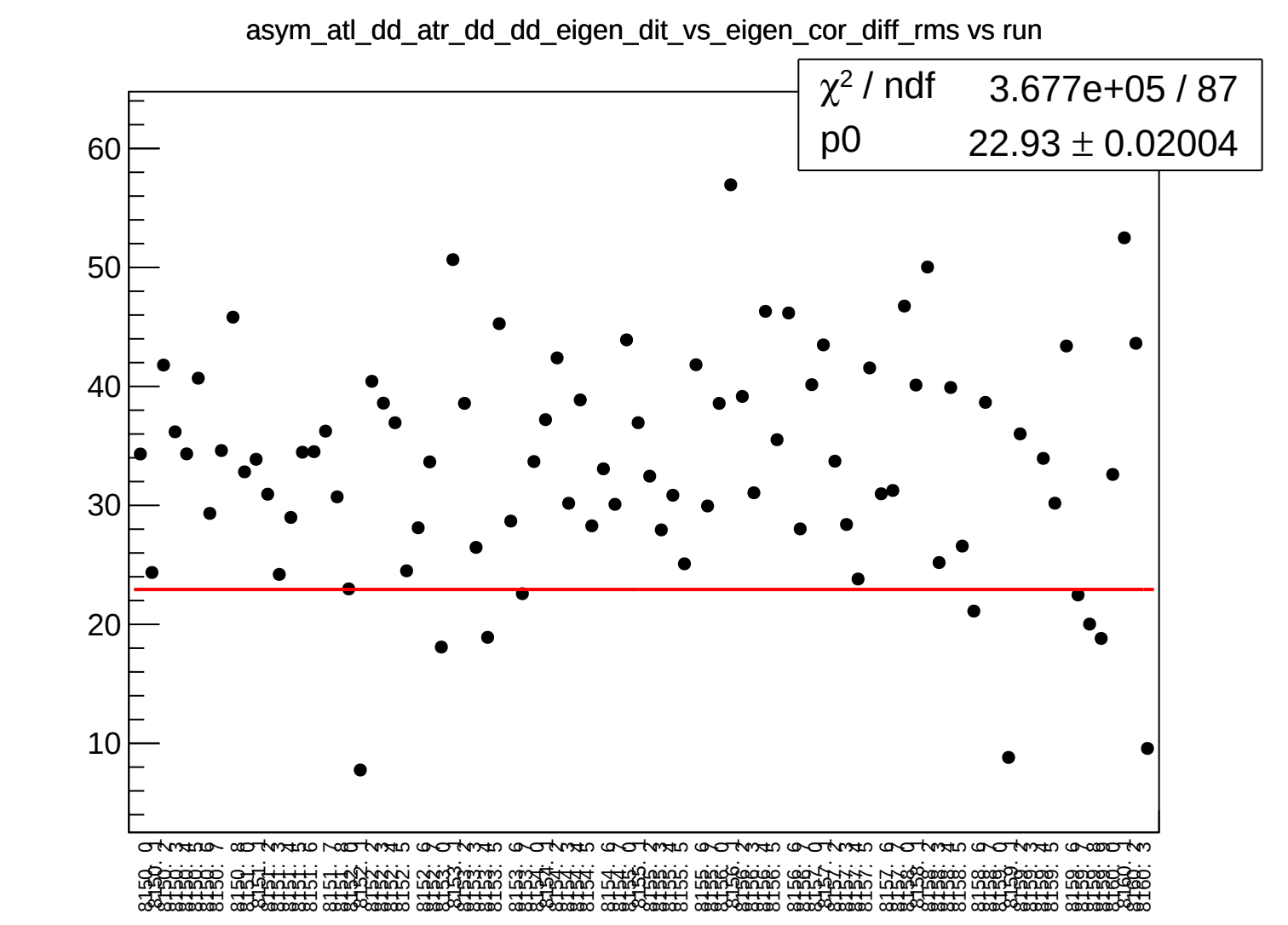

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.8 / 87
p0 −5.706e−06 ± 8.003e−06
pull
Entries 88
Mean −2955
Std Dev 0
pull1D
Entries 88
Mean 0.0007723
Std Dev 1.076

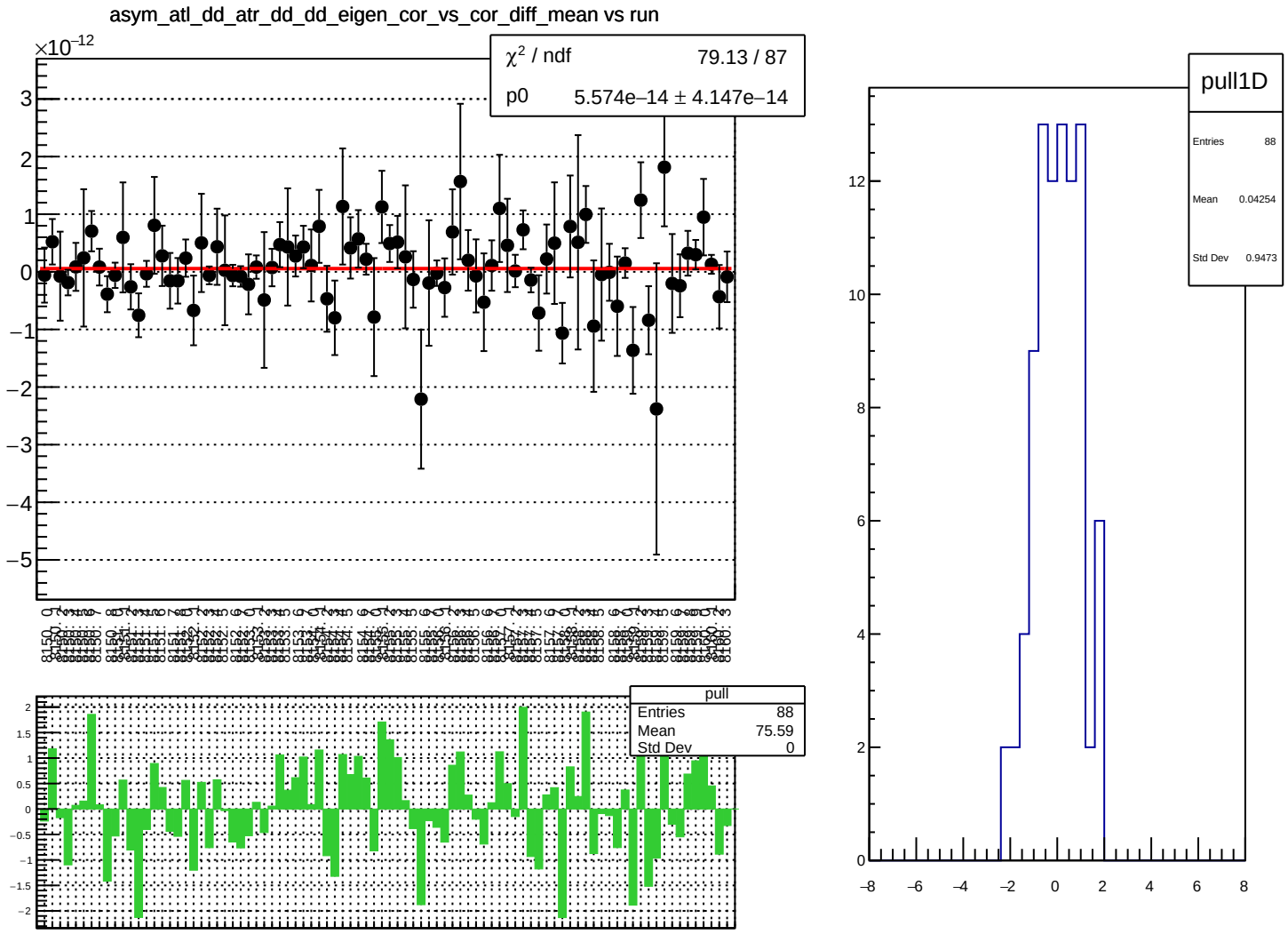

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2735 / 87
p0 0.007321 ± 5.659e−06
0.0085
0.008
0.0075
0.007
0.0065

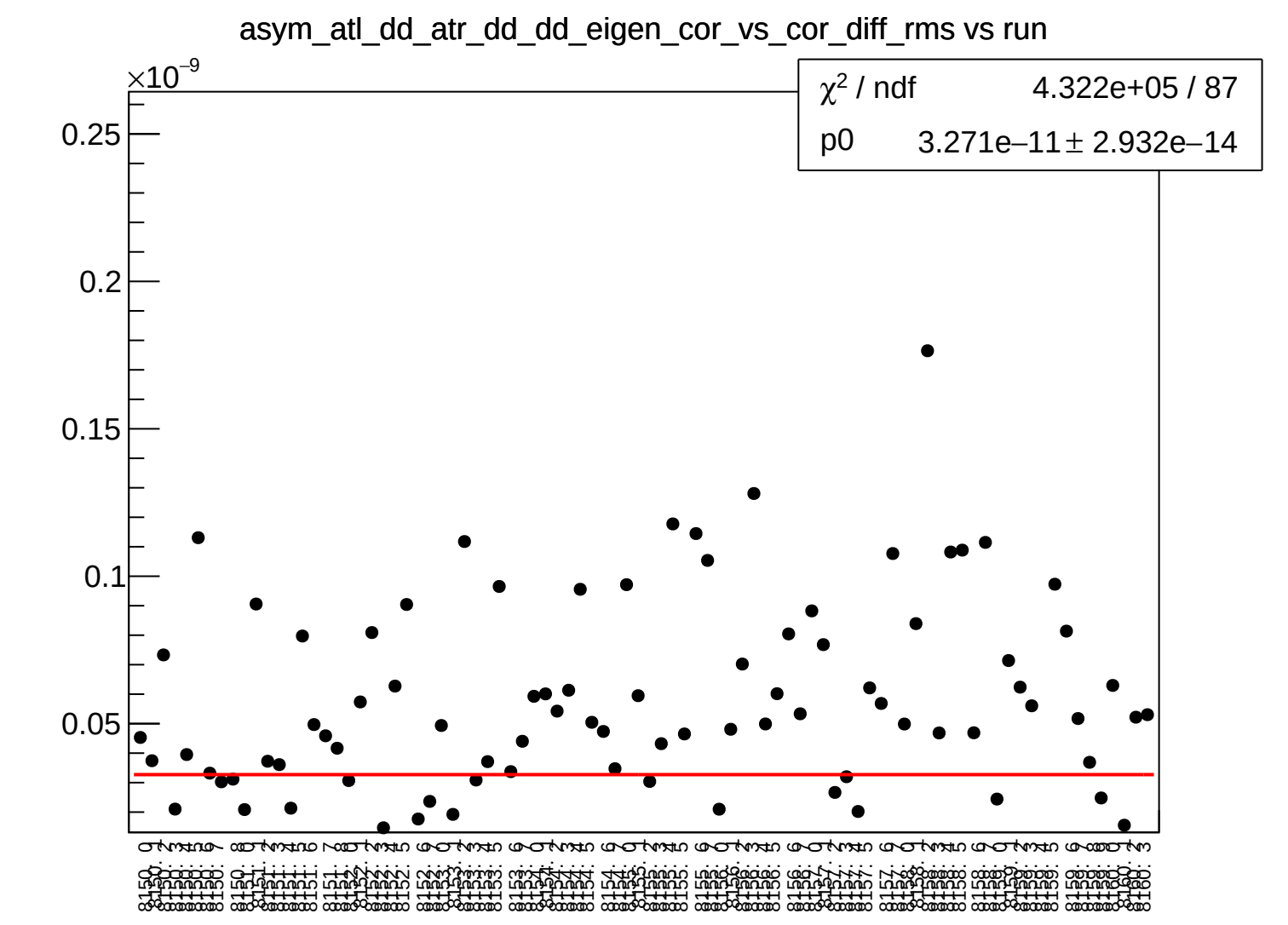

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.1 / 87
p0 −0.02194 ± 0.02834
pull
Entries 88
Mean 95.02
Std Dev 38.72
pull1D
Entries 88
Mean 0.02799
Std Dev 1.098

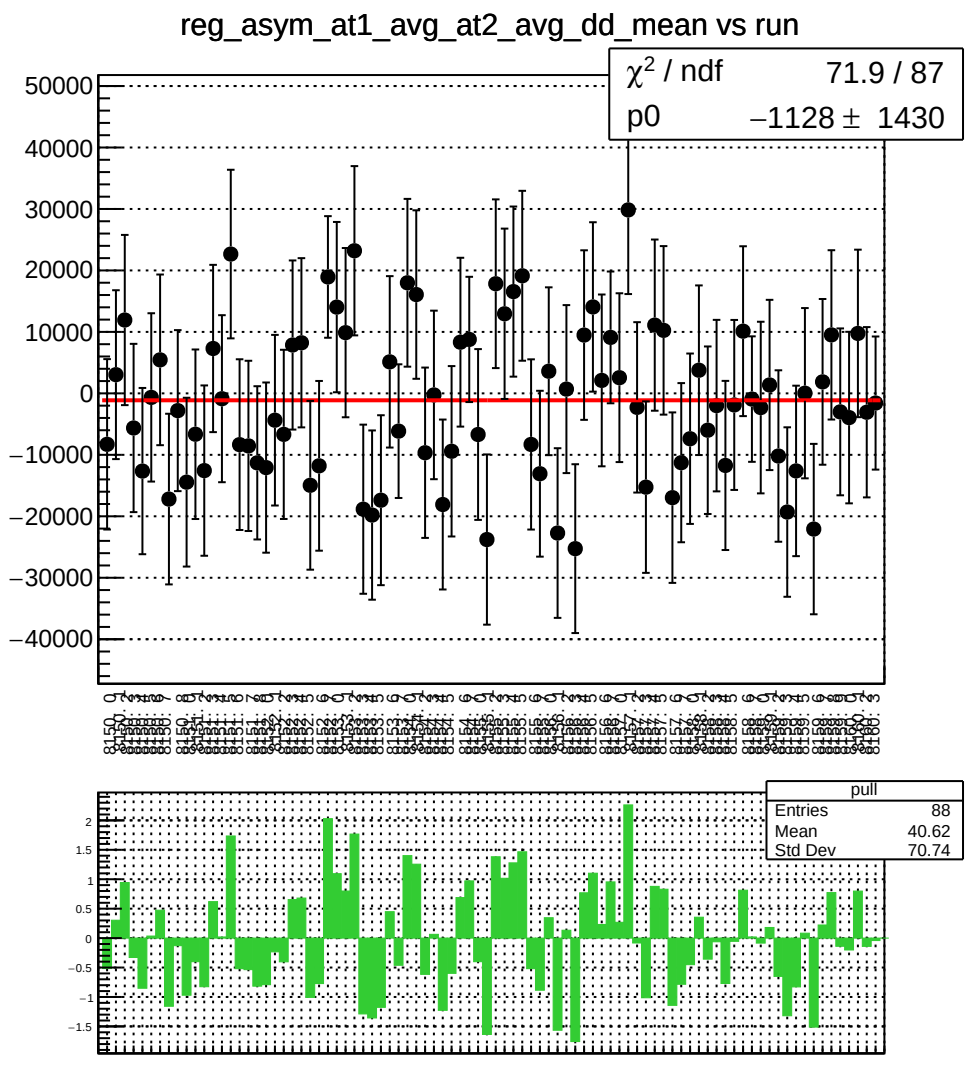

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.677e+05 / 87
p0 22.93 ± 0.02004
60
50
40
30
20
10

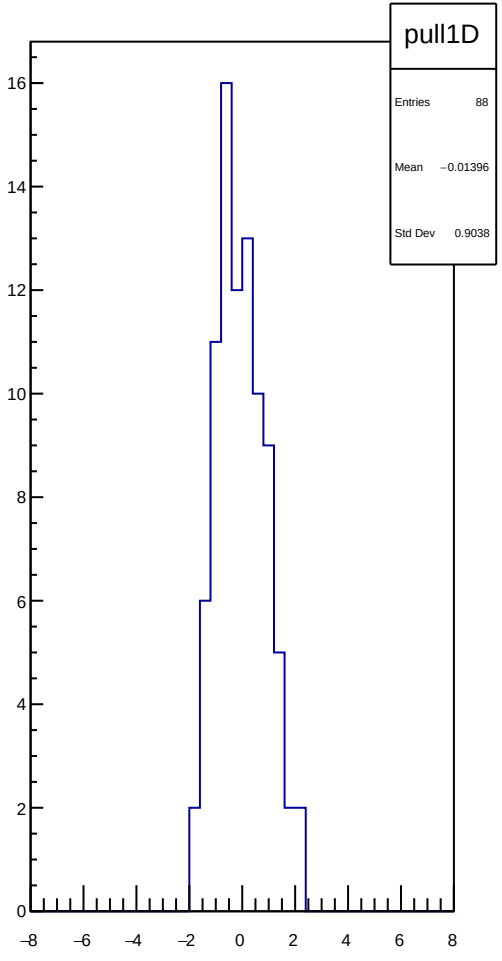

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.1 / 87
p0 −0.02194 ± 0.02834
pull
Entries 88
Mean 95.02
Std Dev 38.72
pull1D
Entries 88
Mean 0.02799
Std Dev 1.098

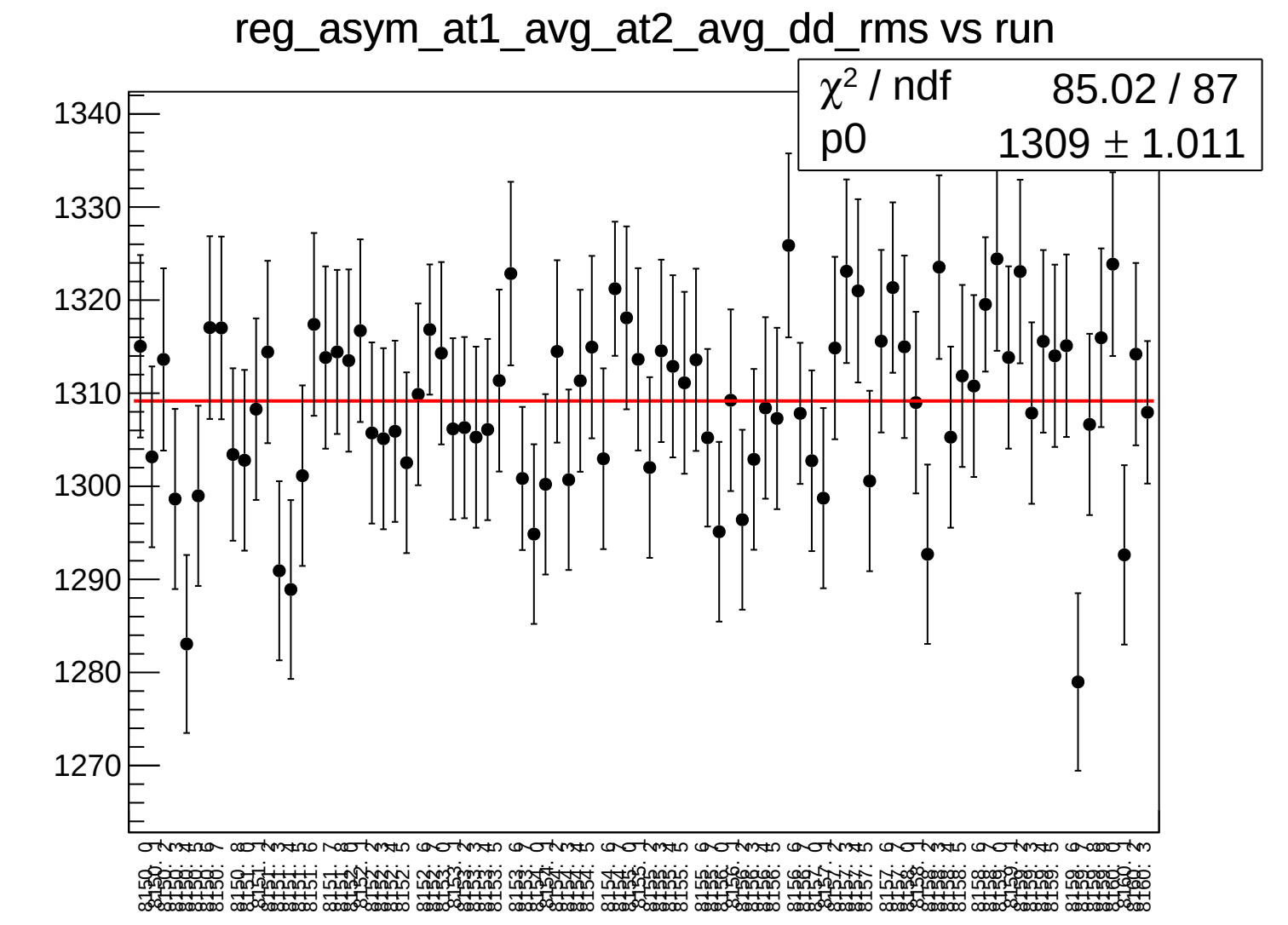

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.677e+05 / 87
p0 22.93 ± 0.02004
60
50
40
30
20
10

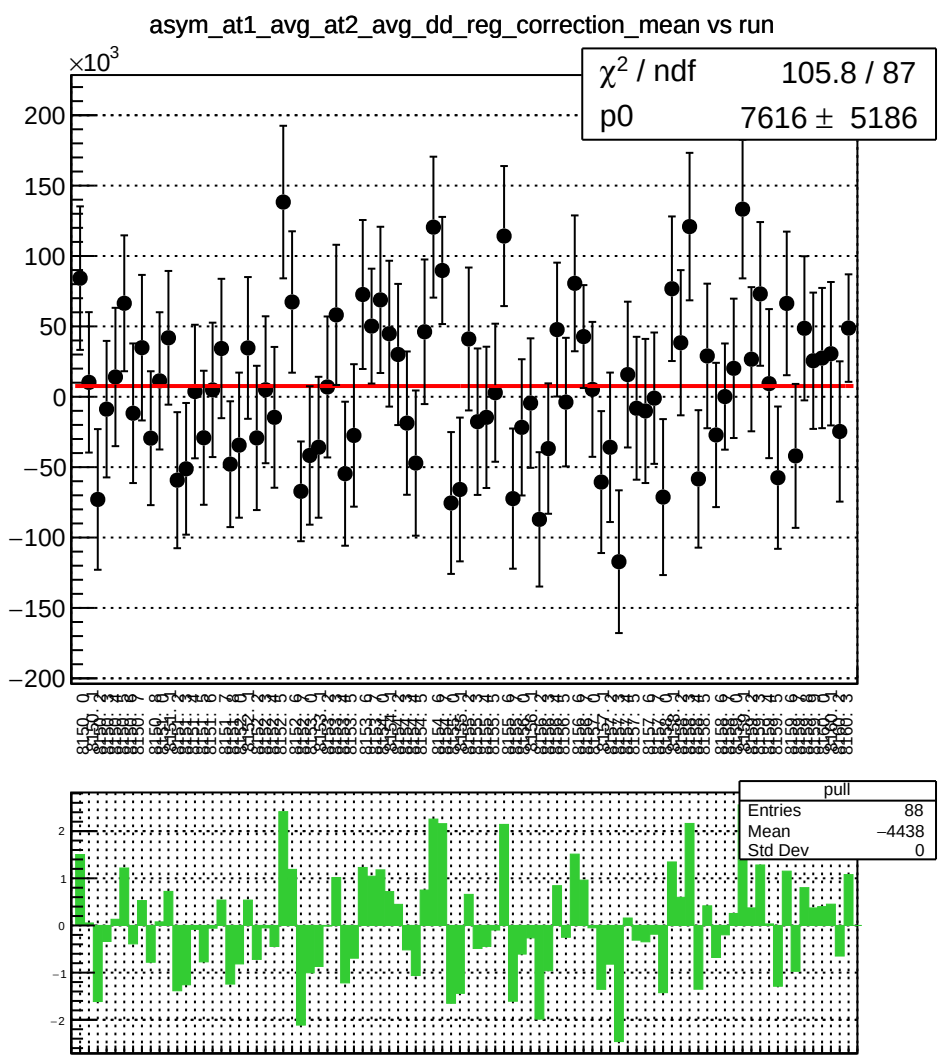

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.13 / 87
p0 5.574e−14 ± 4.147e−14
pull
Entries 88
Mean 75.59
Std Dev 0
pull1D
Entries 88
Mean 0.04254
Std Dev 0.9473

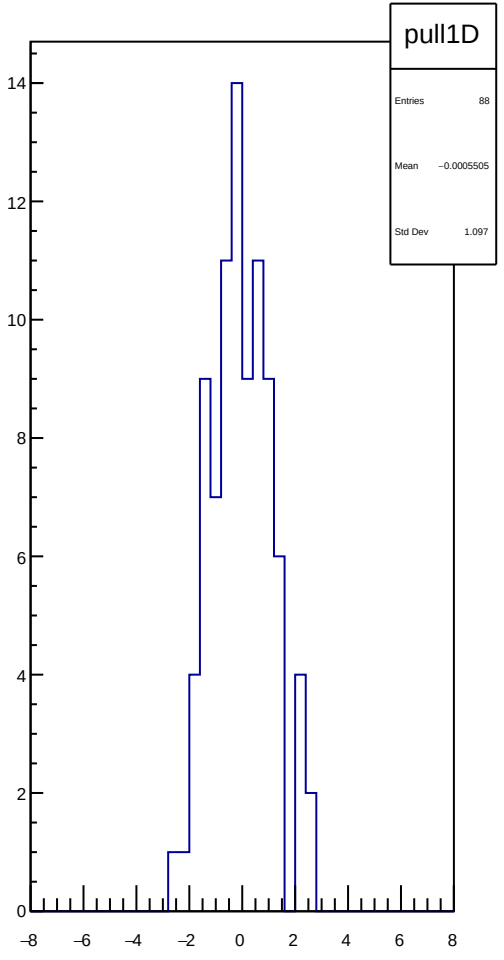

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.322e+05 / 87
p0 3.271e−11 ± 2.932e−14
0.25
0.2
0.15
0.1
0.05

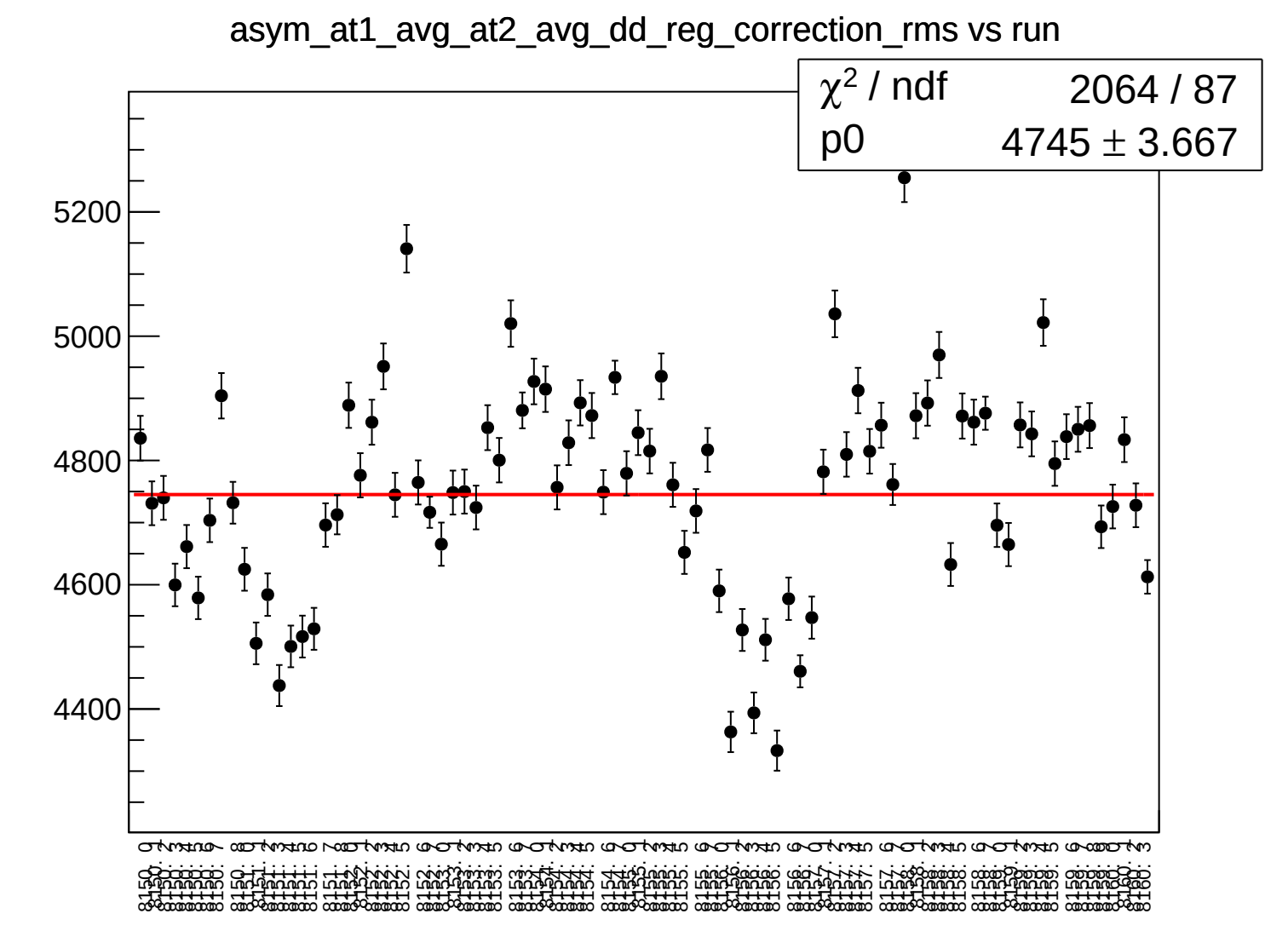

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 71.9 / 87
p0 −1128 ± 1430
pull
Entries 88
Mean 40.62
Std Dev 70.74

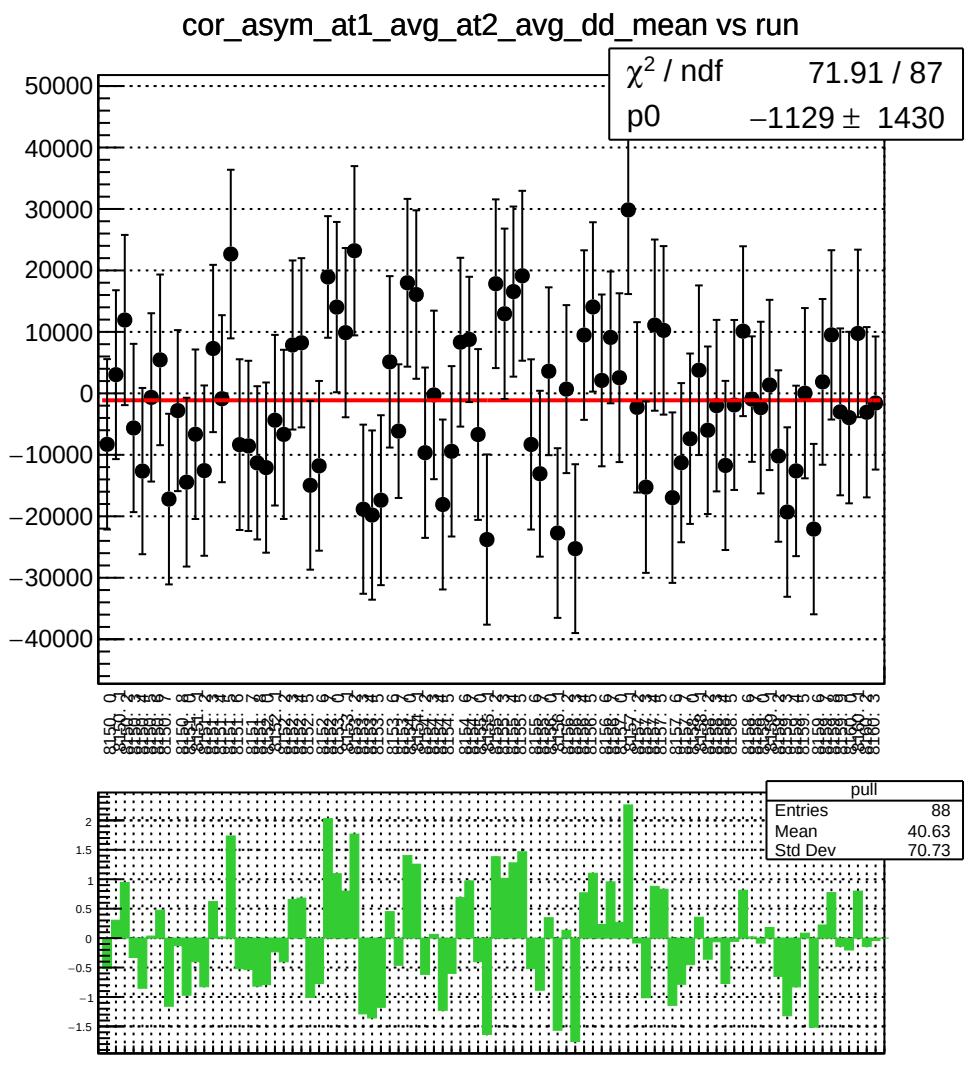

pull1D
Entries 88
Mean −0.01396
Std Dev 0.9038

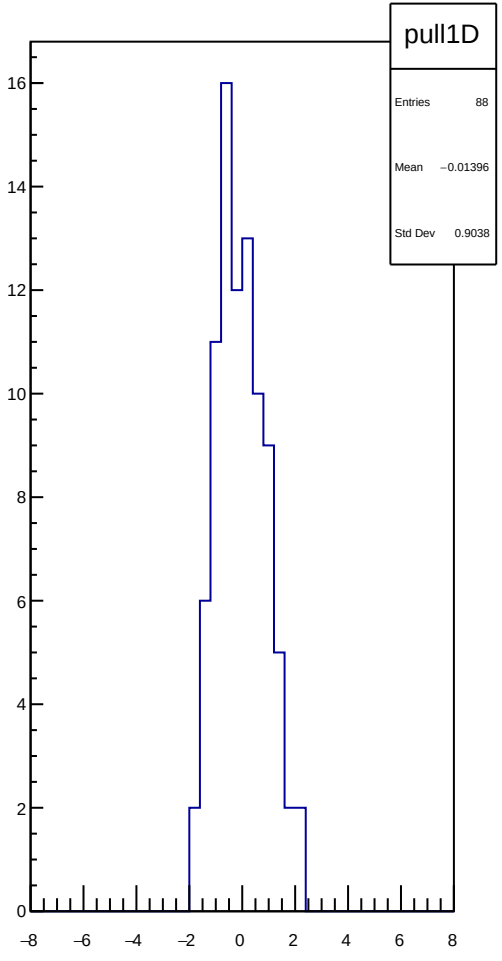

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 85.02 / 87
p0 1309 ± 1.011
1340
1330
1320
1310
1300
1290
1280
1270

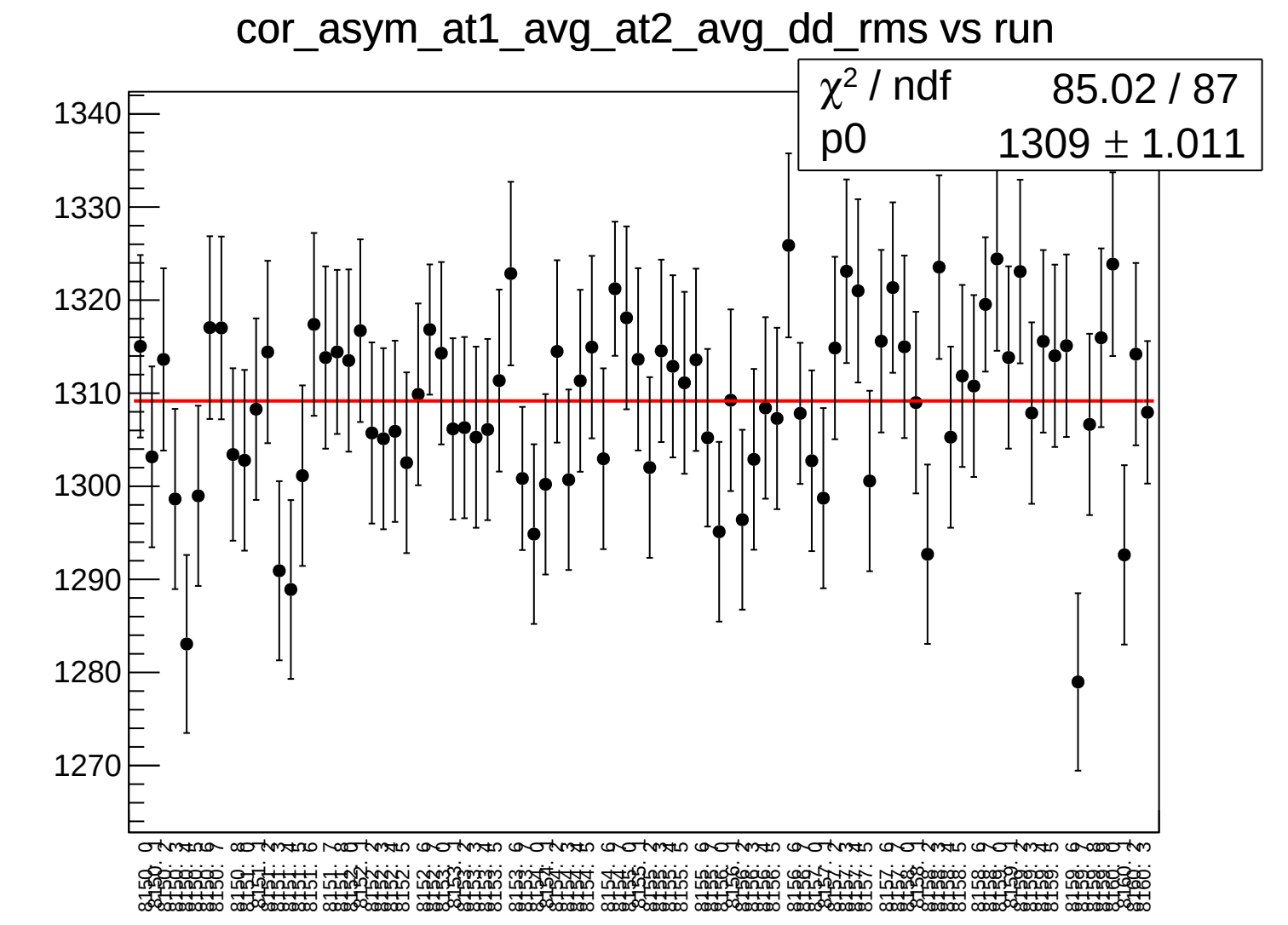

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 105.8 / 87
p0 7616 ± 5186
pull
Entries 88
Mean −4438
Std Dev 0

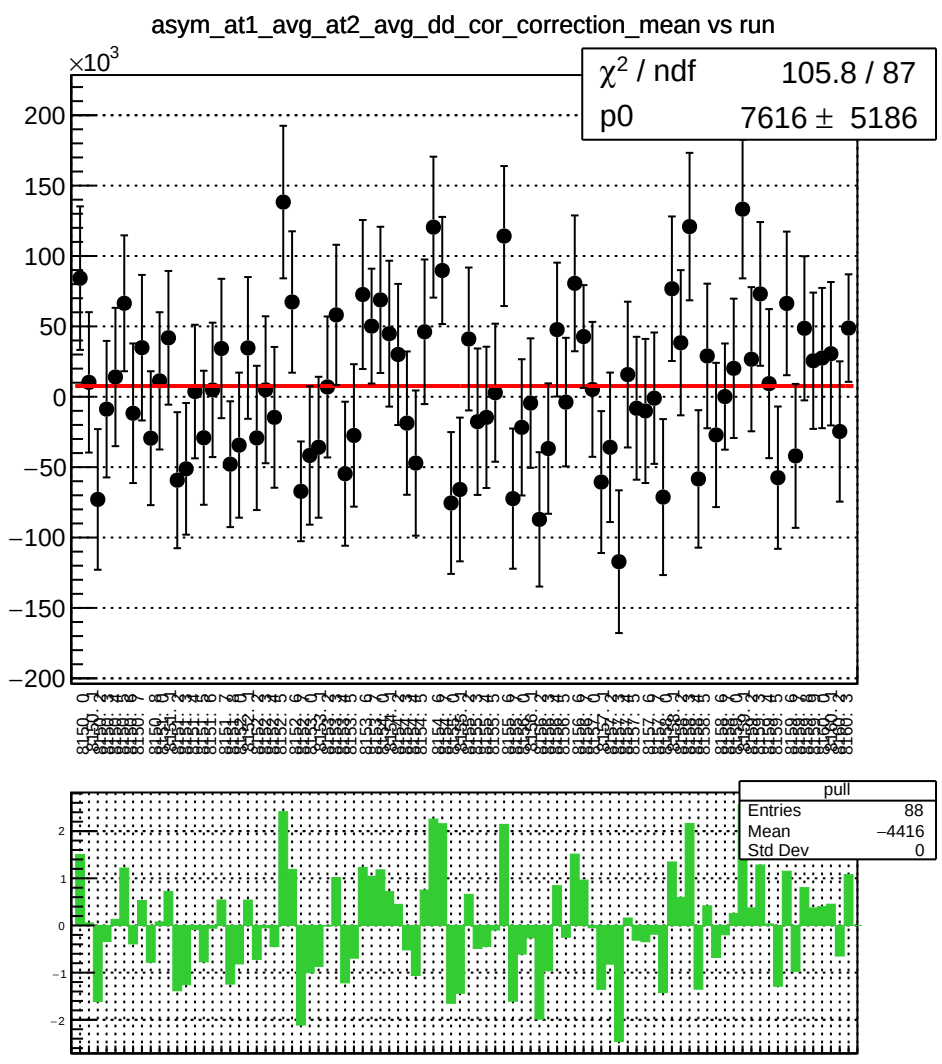

pull1D
Entries 88
Mean −0.0005505
Std Dev 1.097

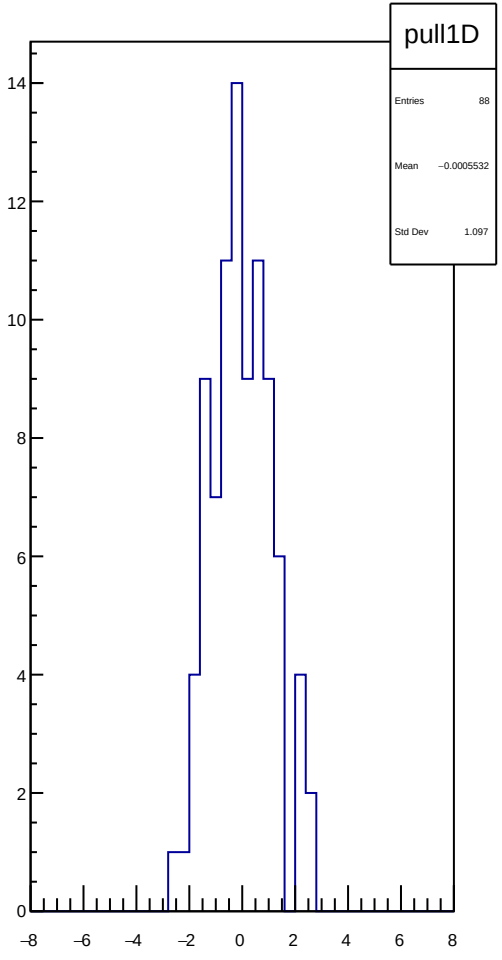

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 2064 / 87
p0 4745 ± 3.667
5200
5000
4800
4600
4400

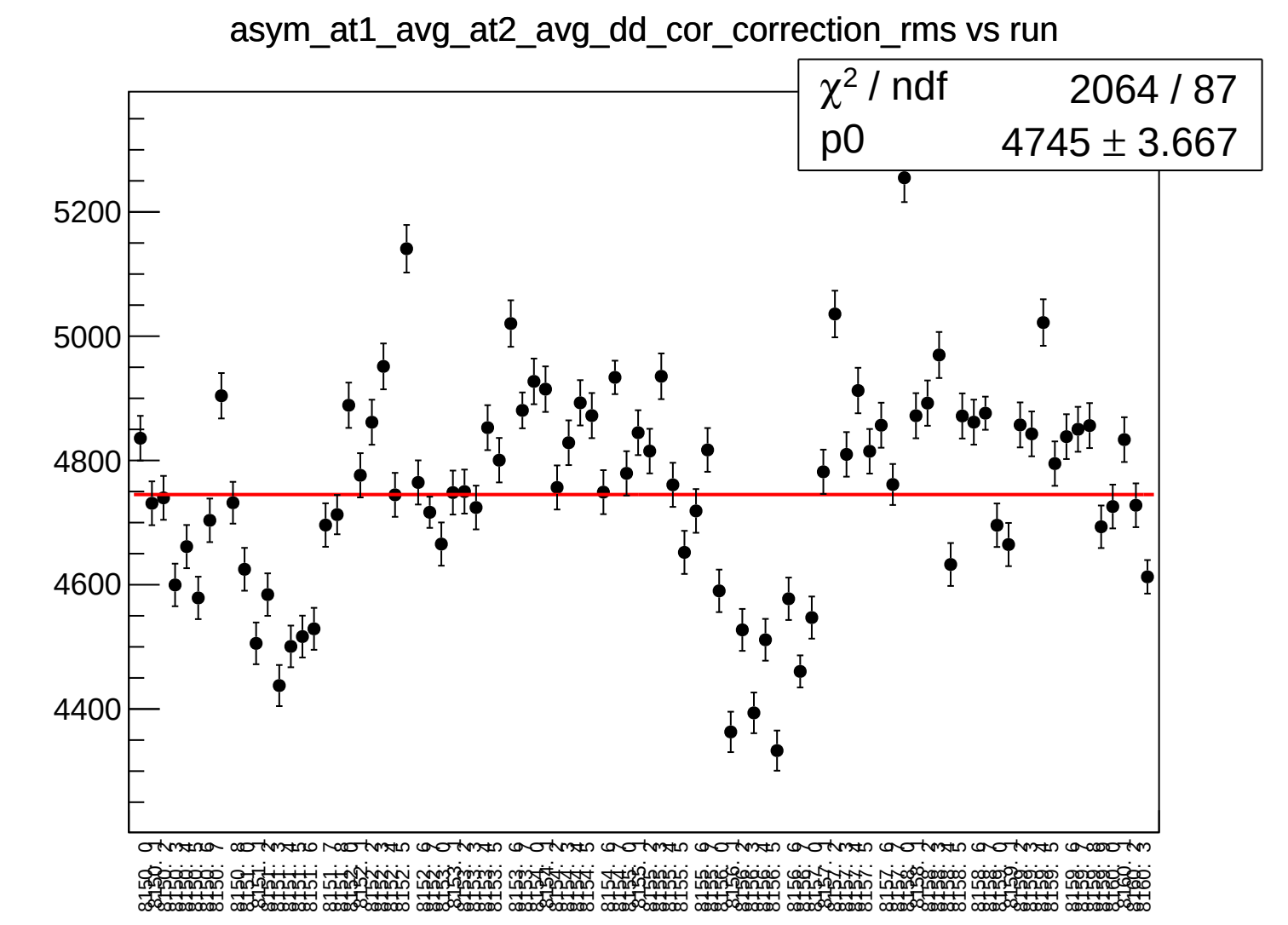

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 71.91 / 87
p0 −1129 ± 1430
pull
Entries 88
Mean 40.63
Std Dev 70.73

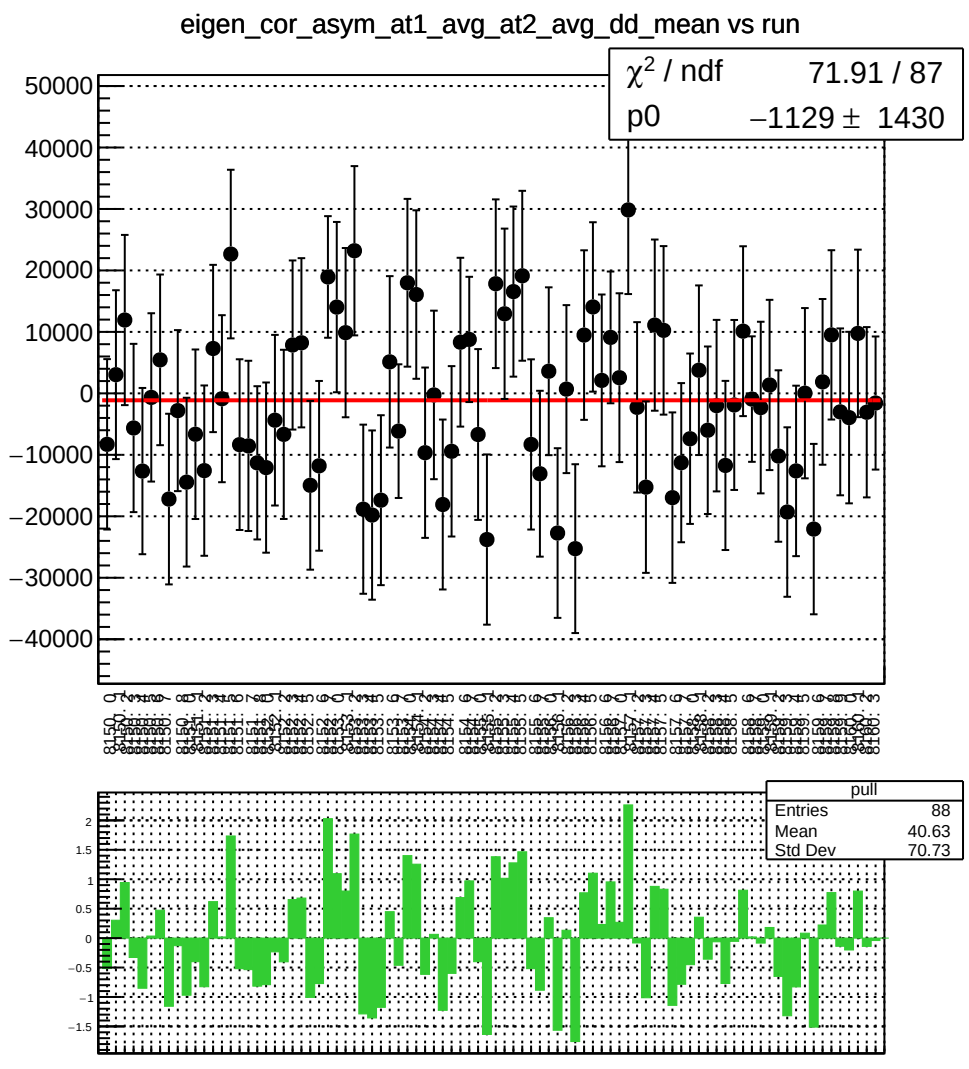

pull1D
Entries 88
Mean −0.01396
Std Dev 0.9038

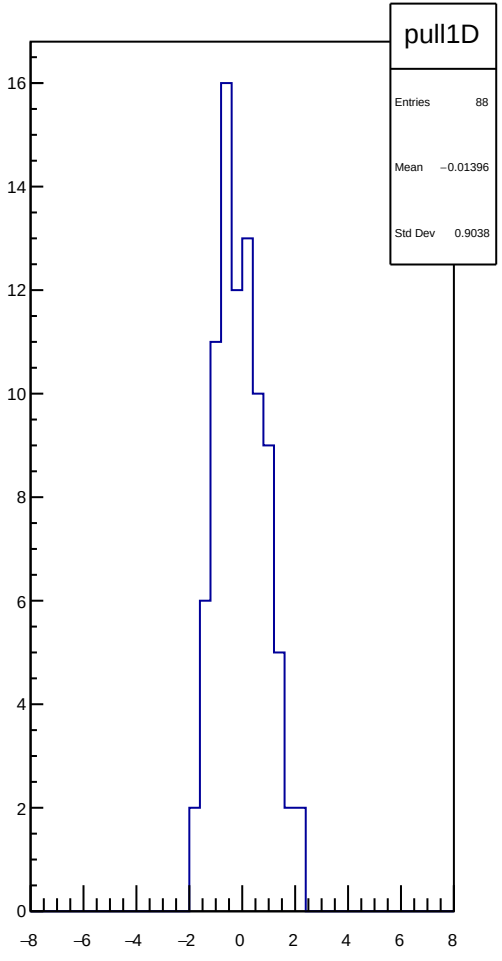

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 85.02 / 87
p0 1309 ± 1.011
1340
1330
1320
1310
1300
1290
1280
1270

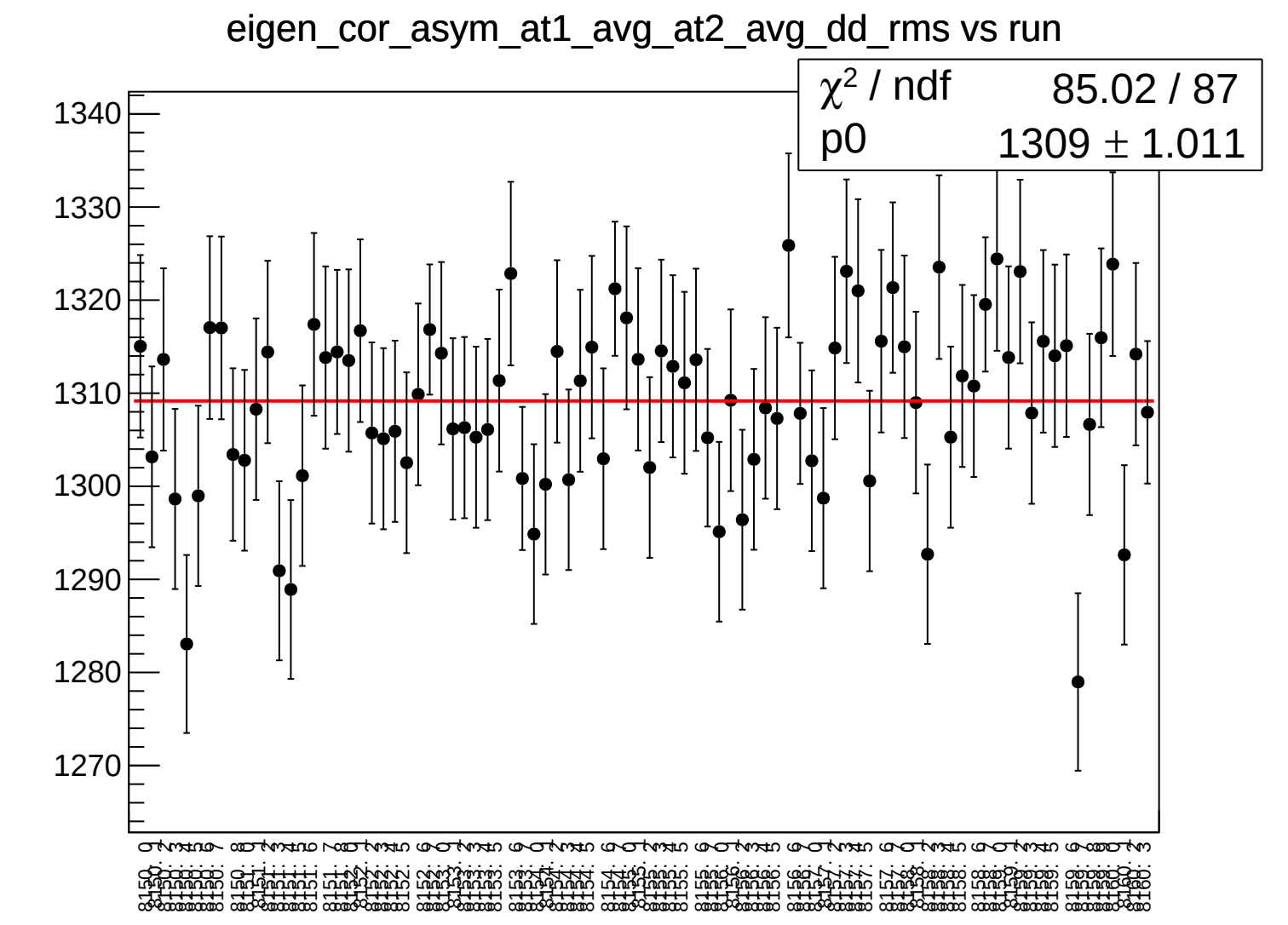

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 105.8 / 87
p0 7616 ± 5186
pull
Entries 88
Mean −4416
Std Dev 0

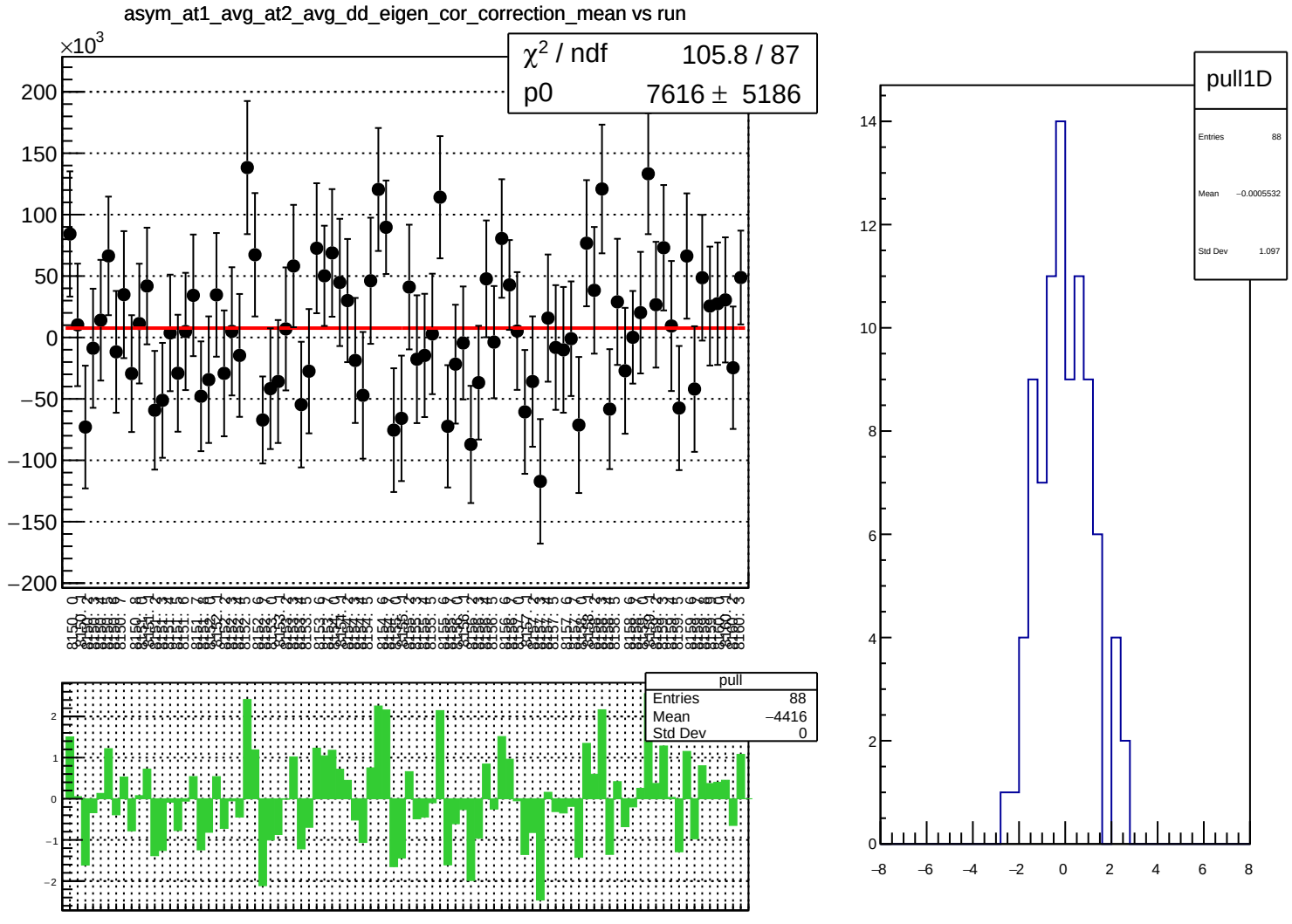

pull1D
Entries 88
Mean −0.0005532
Std Dev 1.097

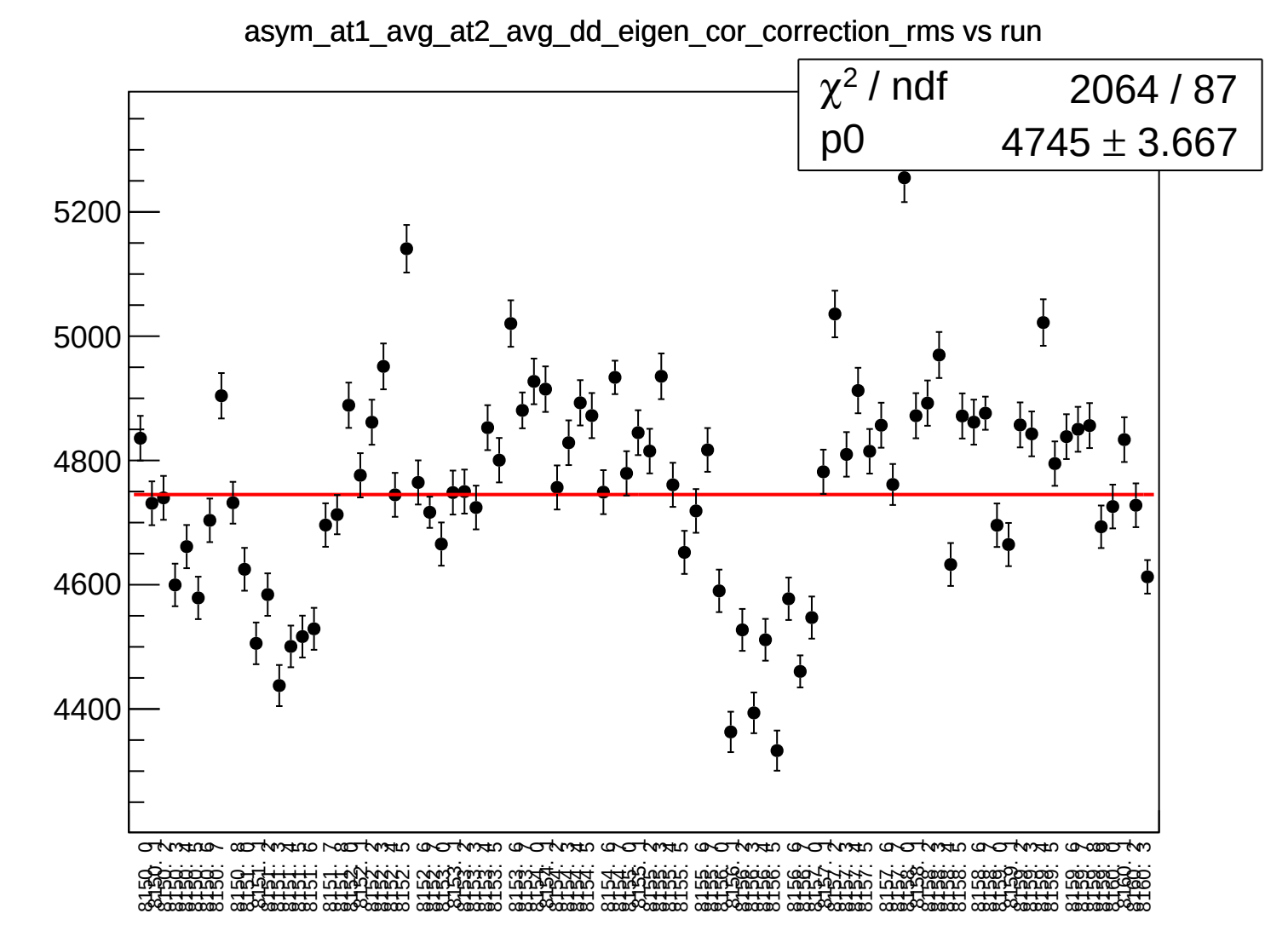

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 2064 / 87
p0 4745 ± 3.667
5200
5000
4800
4600
4400

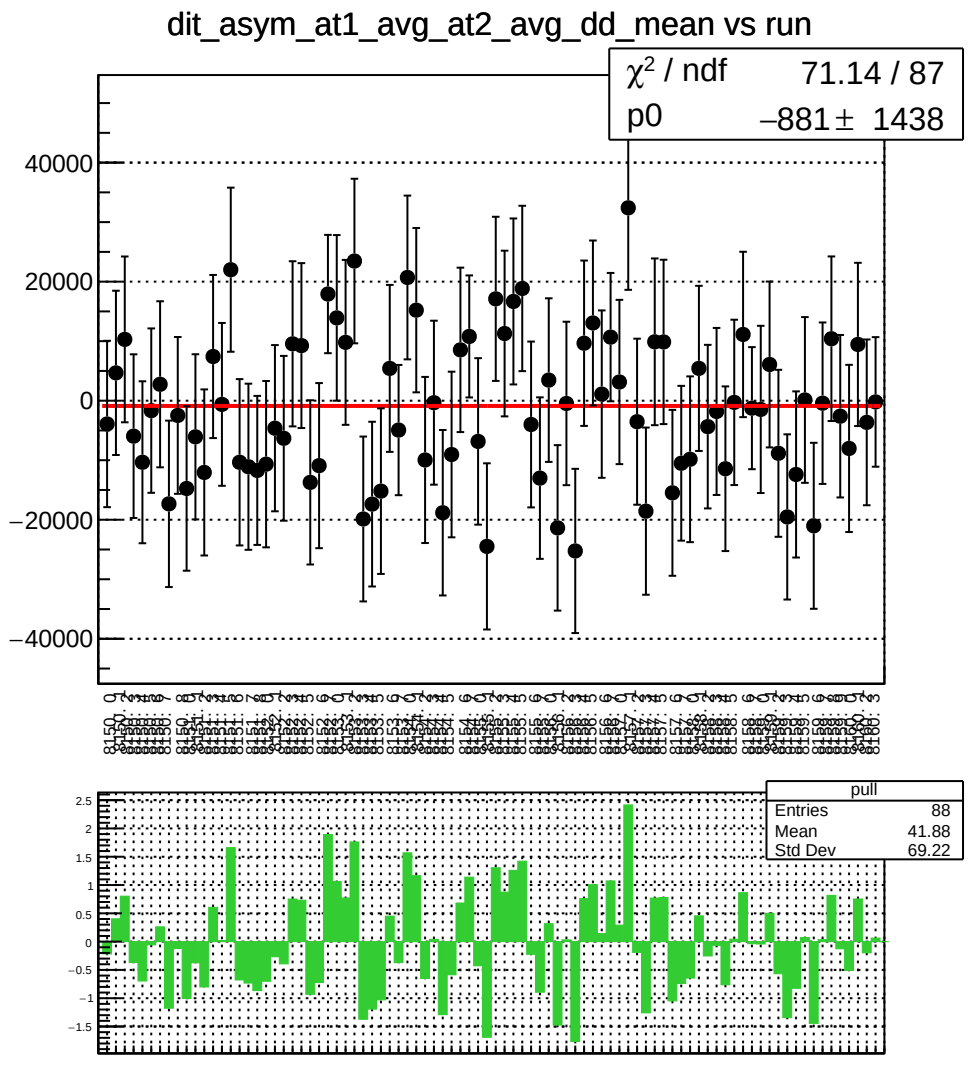

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 71.91 / 87
p0 −1129 ± 1430
pull
Entries 88
Mean 40.63
Std Dev 70.73

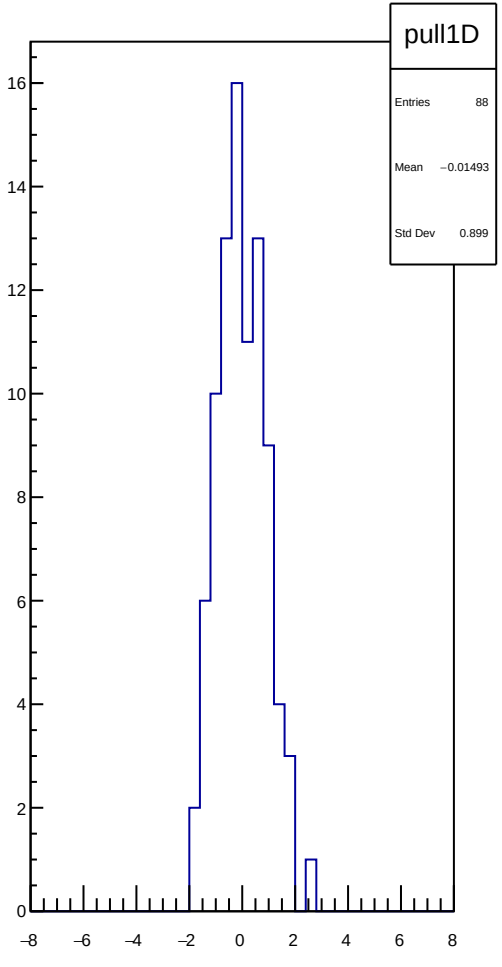

pull1D
Entries 88
Mean −0.01396
Std Dev 0.9038

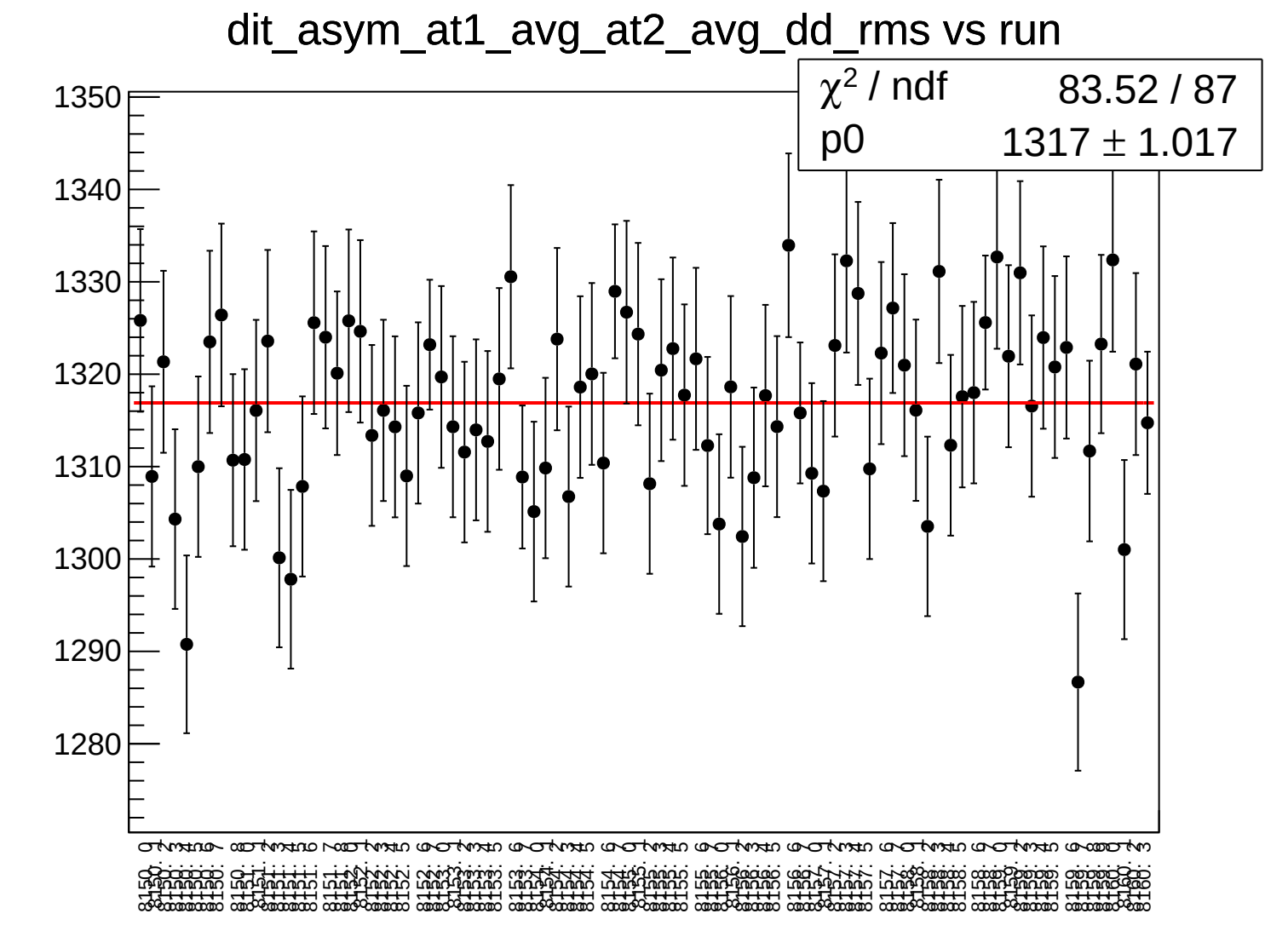

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 85.02 / 87
p0 1309 ± 1.011
1340
1330
1320
1310
1300
1290
1280
1270

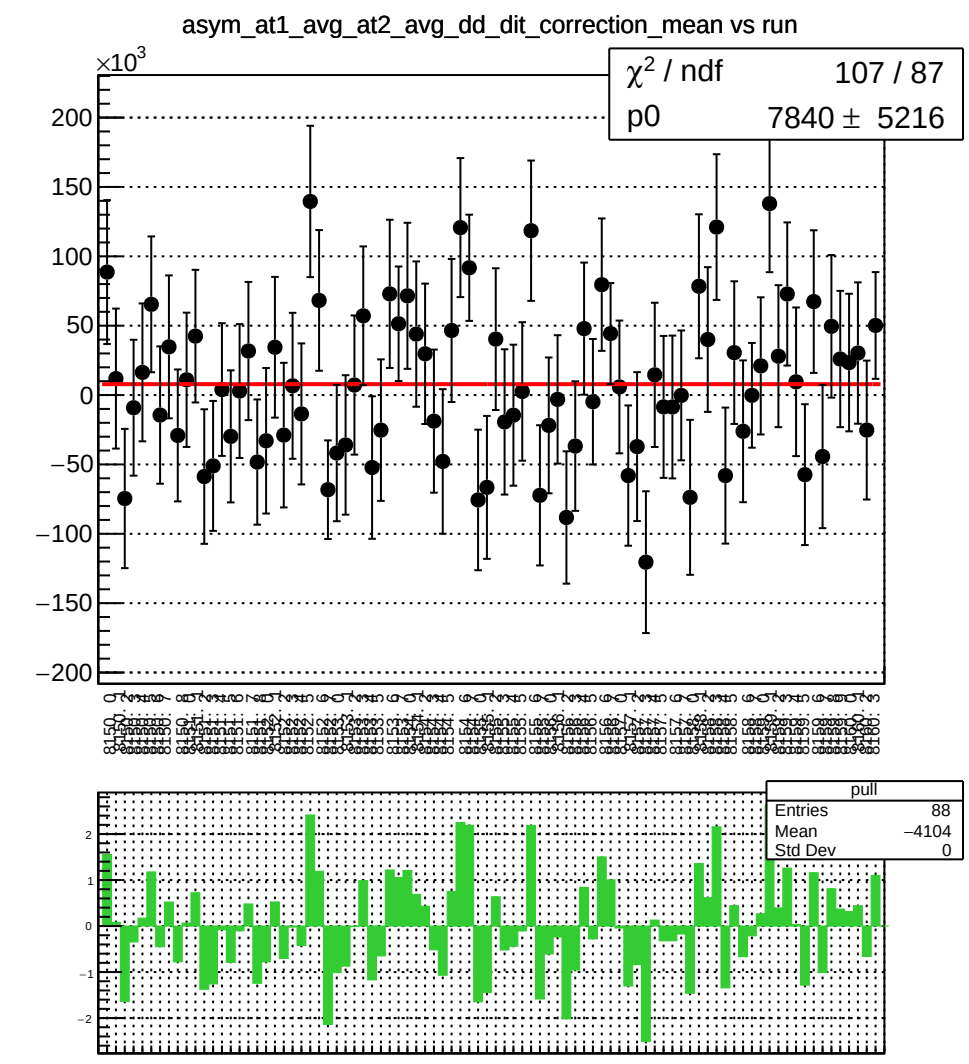

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 105.8 / 87
p0 7616 ± 5186
pull
Entries 88
Mean −4416
Std Dev 0
pull1D
Entries 88
Mean −0.0005532
Std Dev 1.097

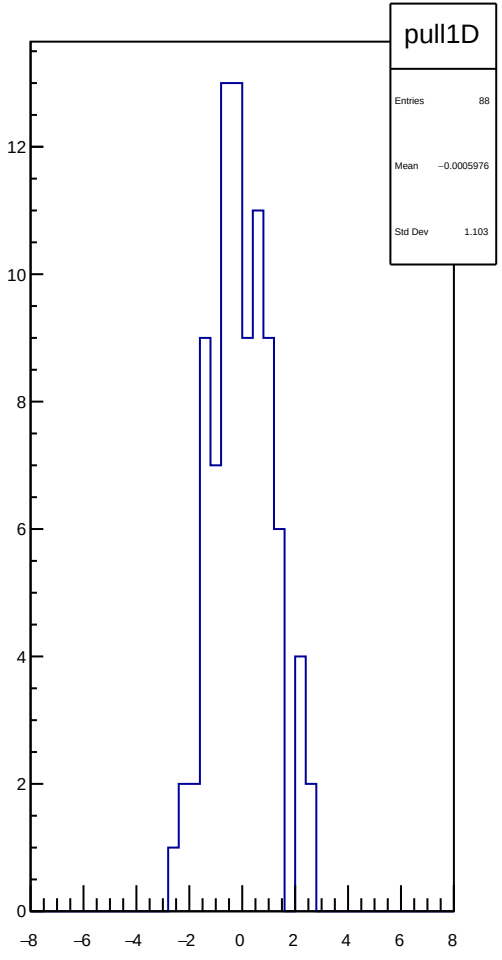

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2064 / 87
p0 4745 ± 3.667
5200
5000
4800
4600
4400

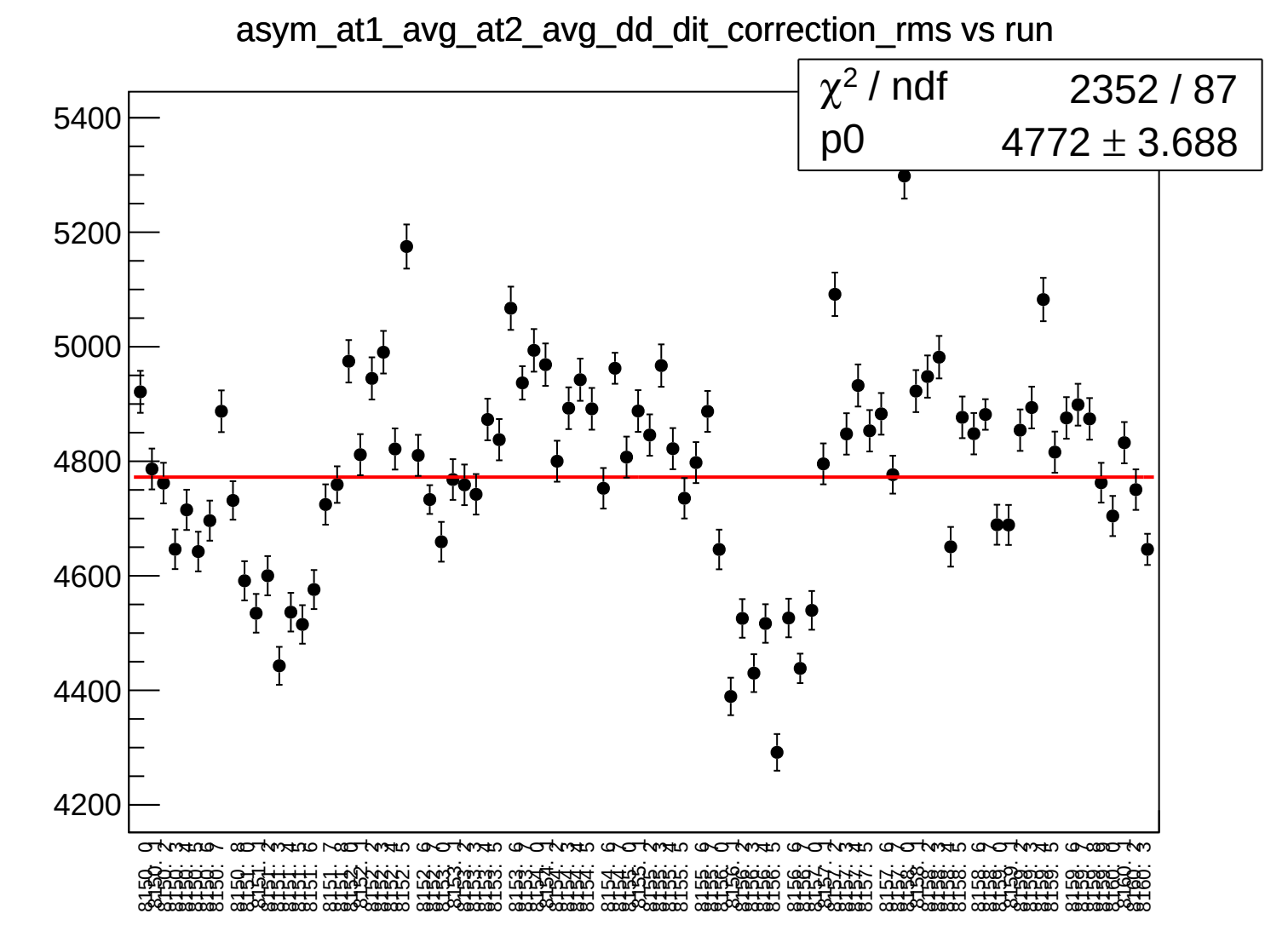

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 71.14 / 87
p0 −881 ± 1438
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 41.88
Std Dev 69.22
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

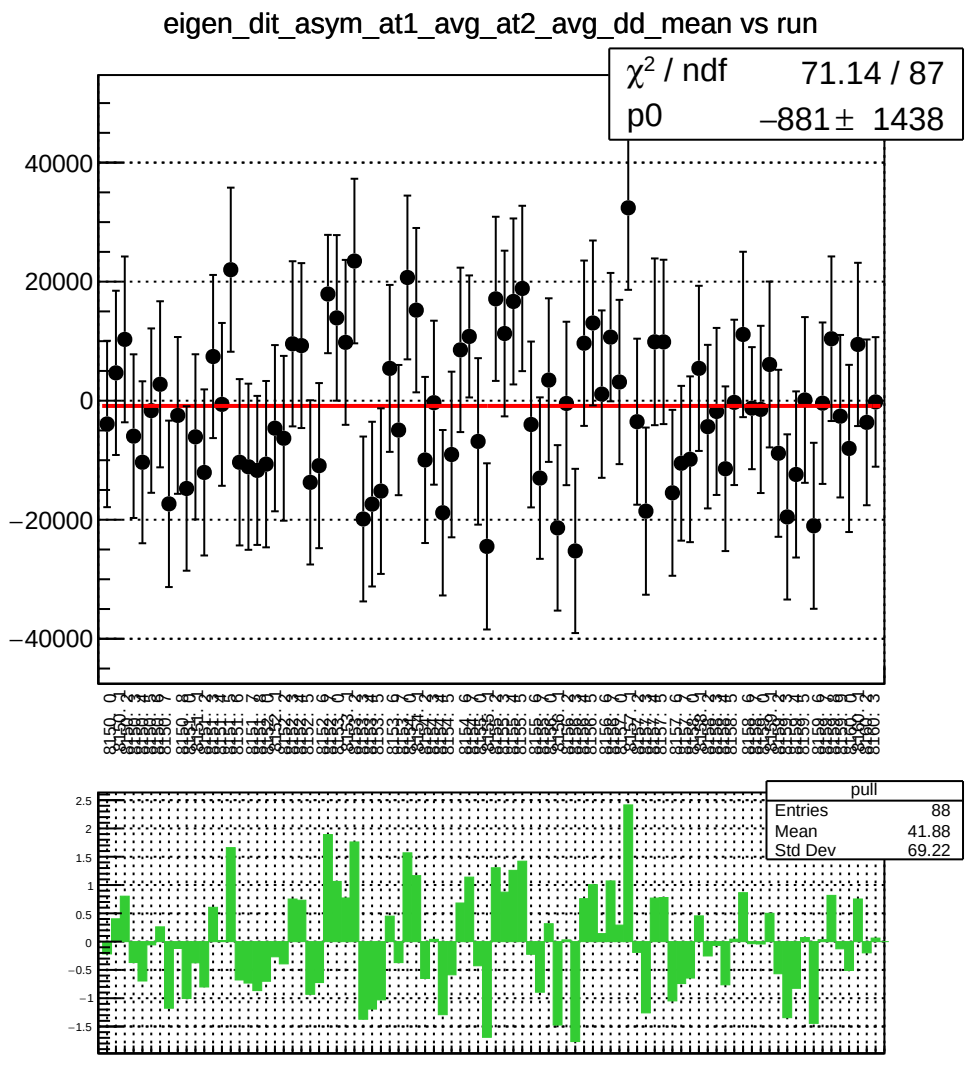

pull1D
Entries 88
Mean −0.01493
Std Dev 0.899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

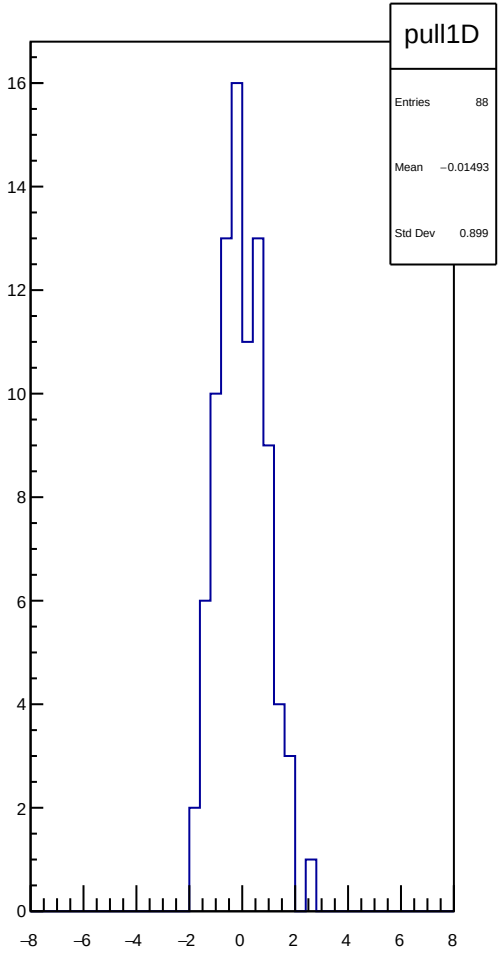

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 83.52 / 87
p0 1317 ± 1.017
1350
1340
1330
1320
1310
1300
1290
1280

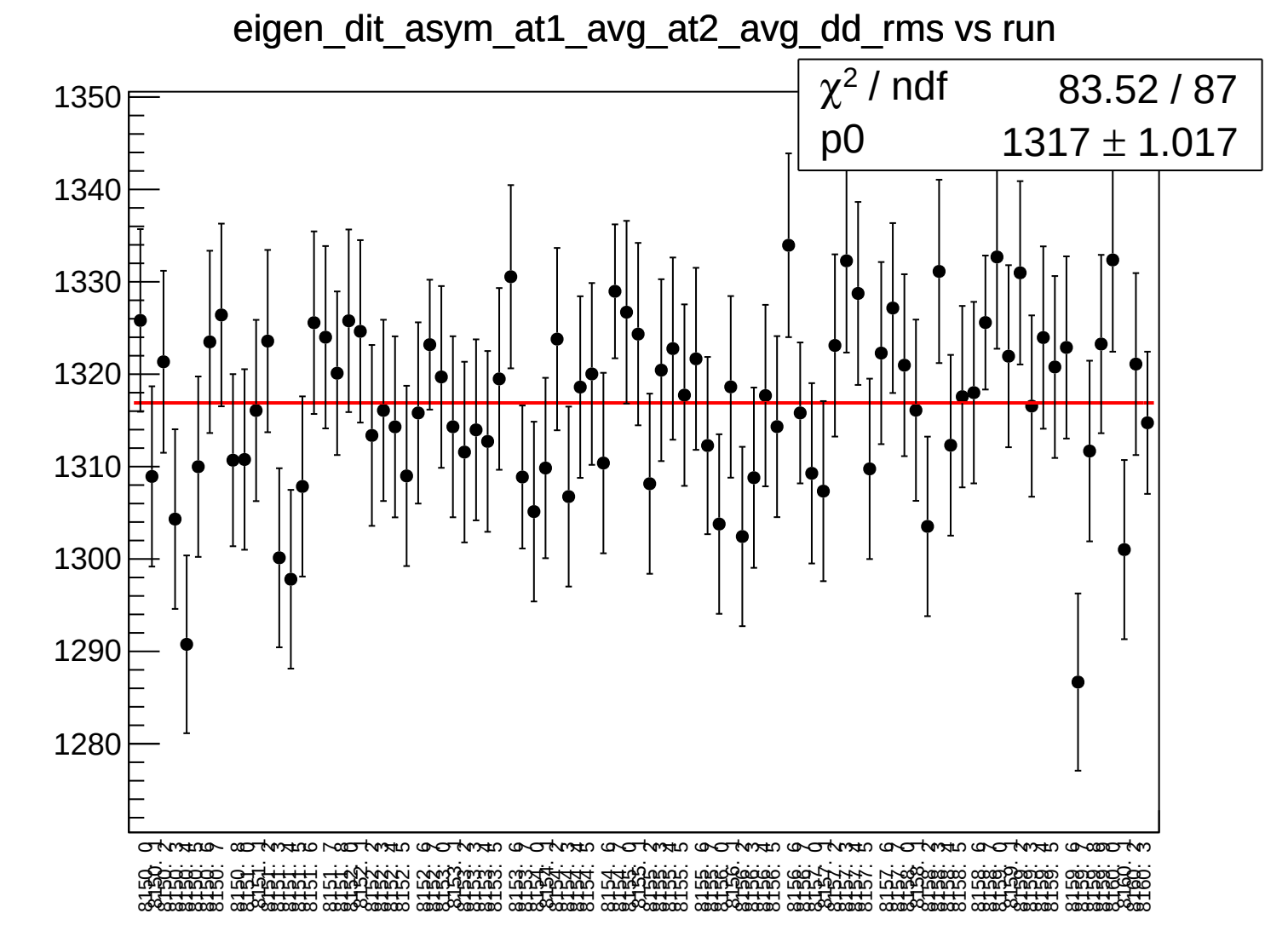

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 87
p0 7840 ± 5216
pull
Entries 88
Mean −4104
Std Dev 0

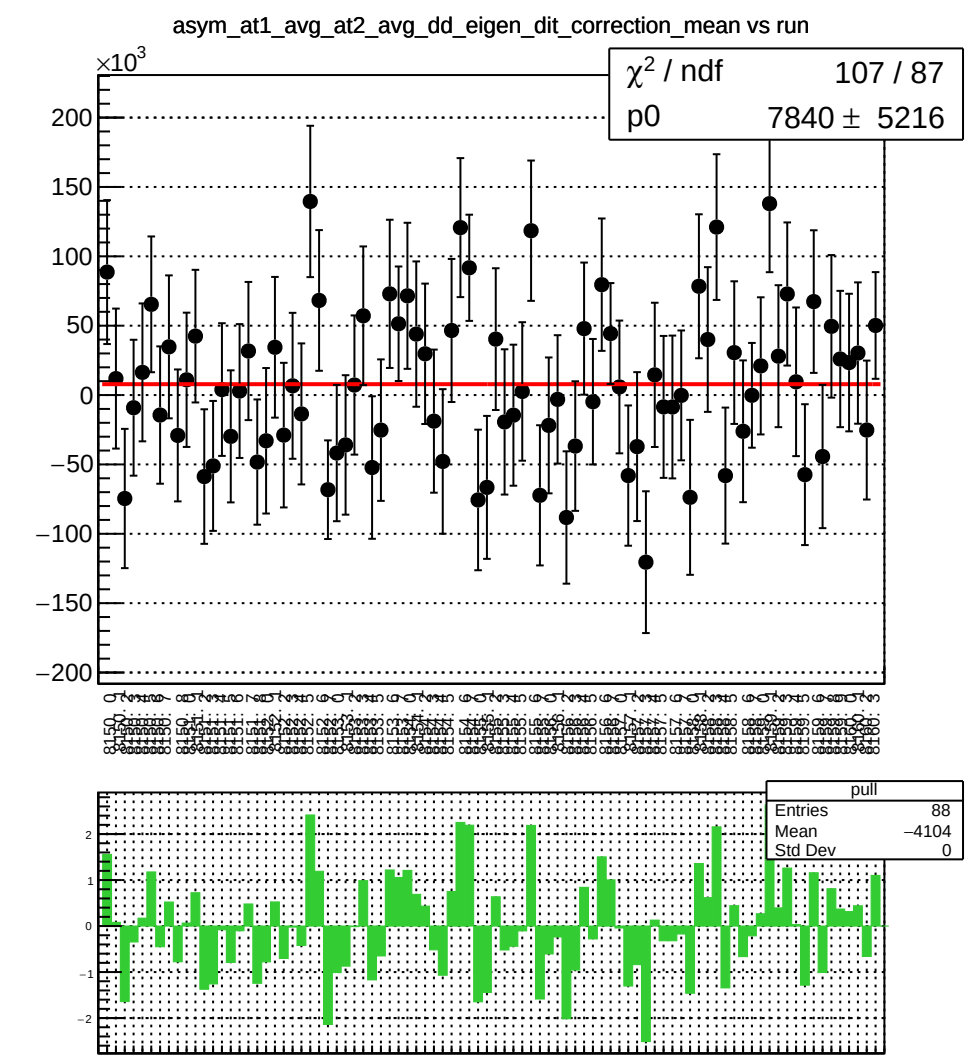

pull1D
Entries 88
Mean −0.0005976
Std Dev 1.103

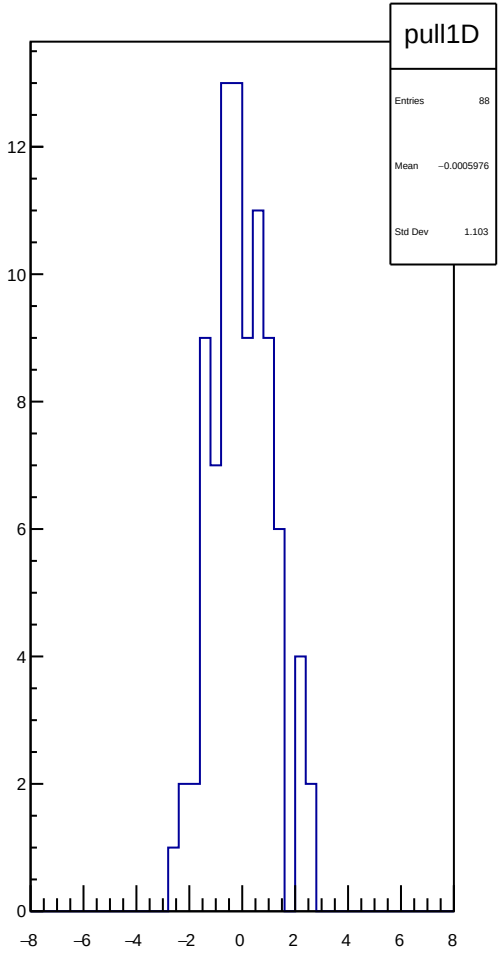

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ^2 / ndf 2352 / 87
p0 4772 ± 3.688
5400
5200
5000
4800
4600
4400
4200

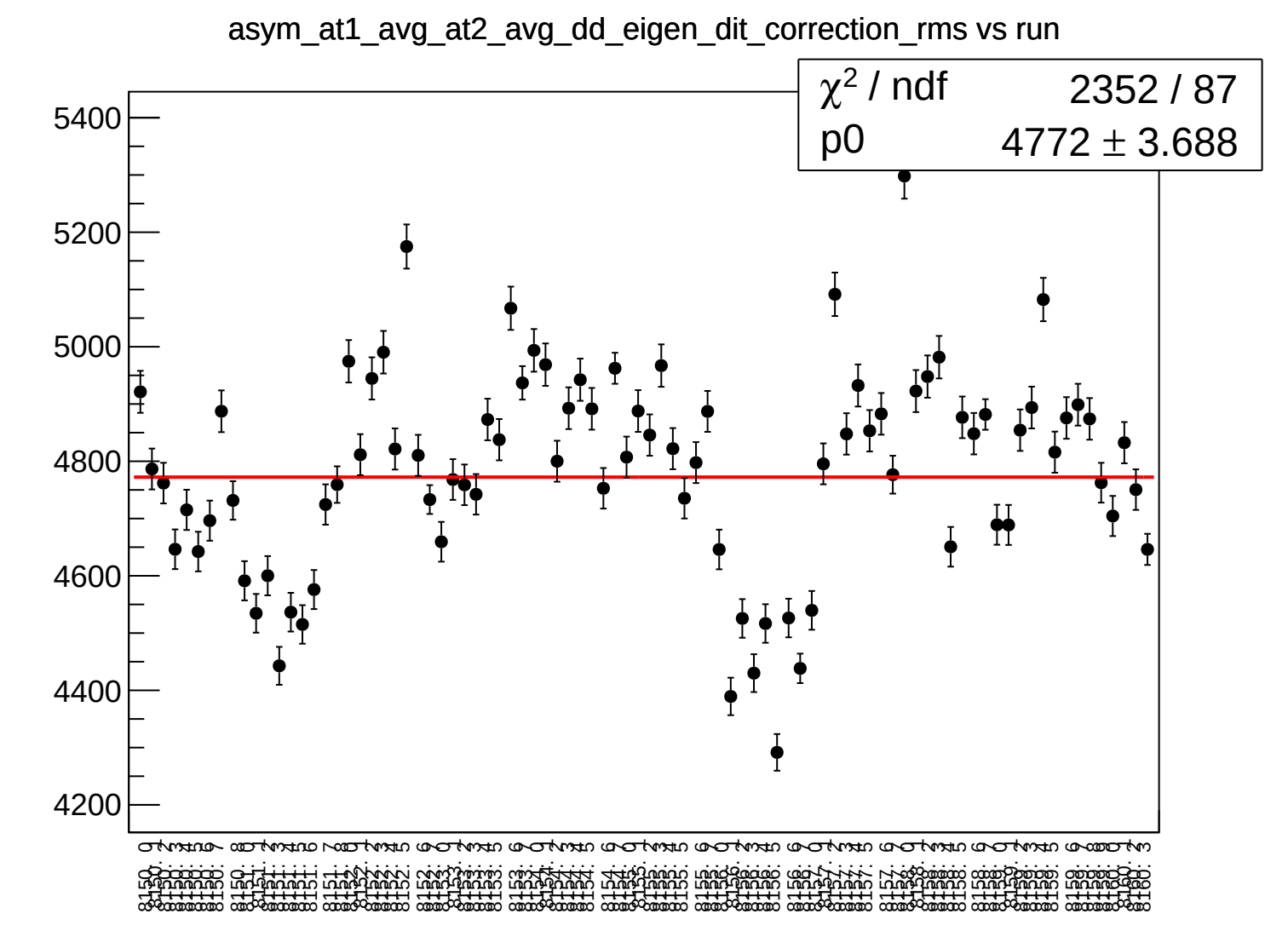

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 71.14 / 87
p0 −881 ± 1438
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 41.88
Std Dev 69.22
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

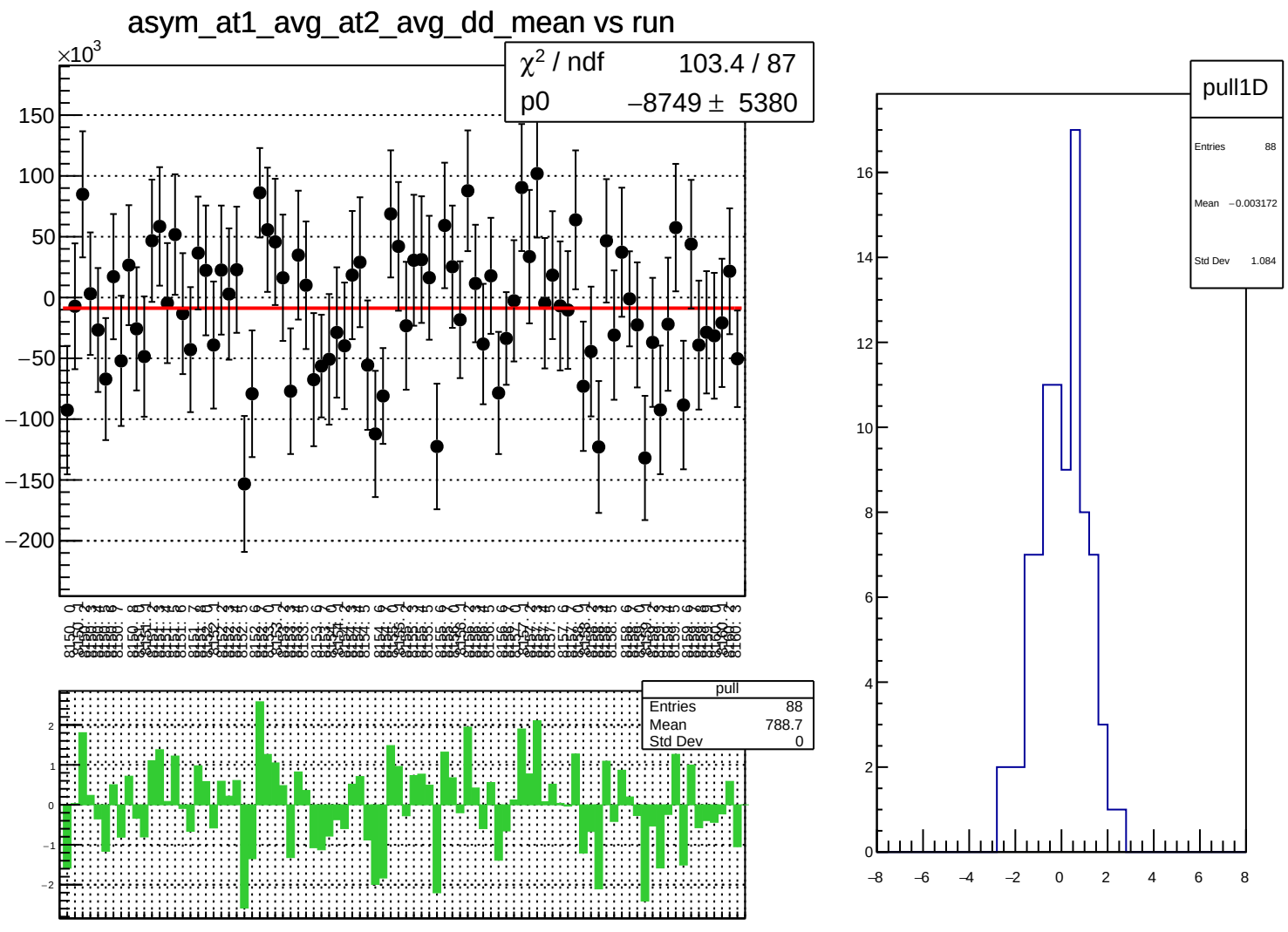

pull1D
Entries 88
Mean −0.01493
Std Dev 0.899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

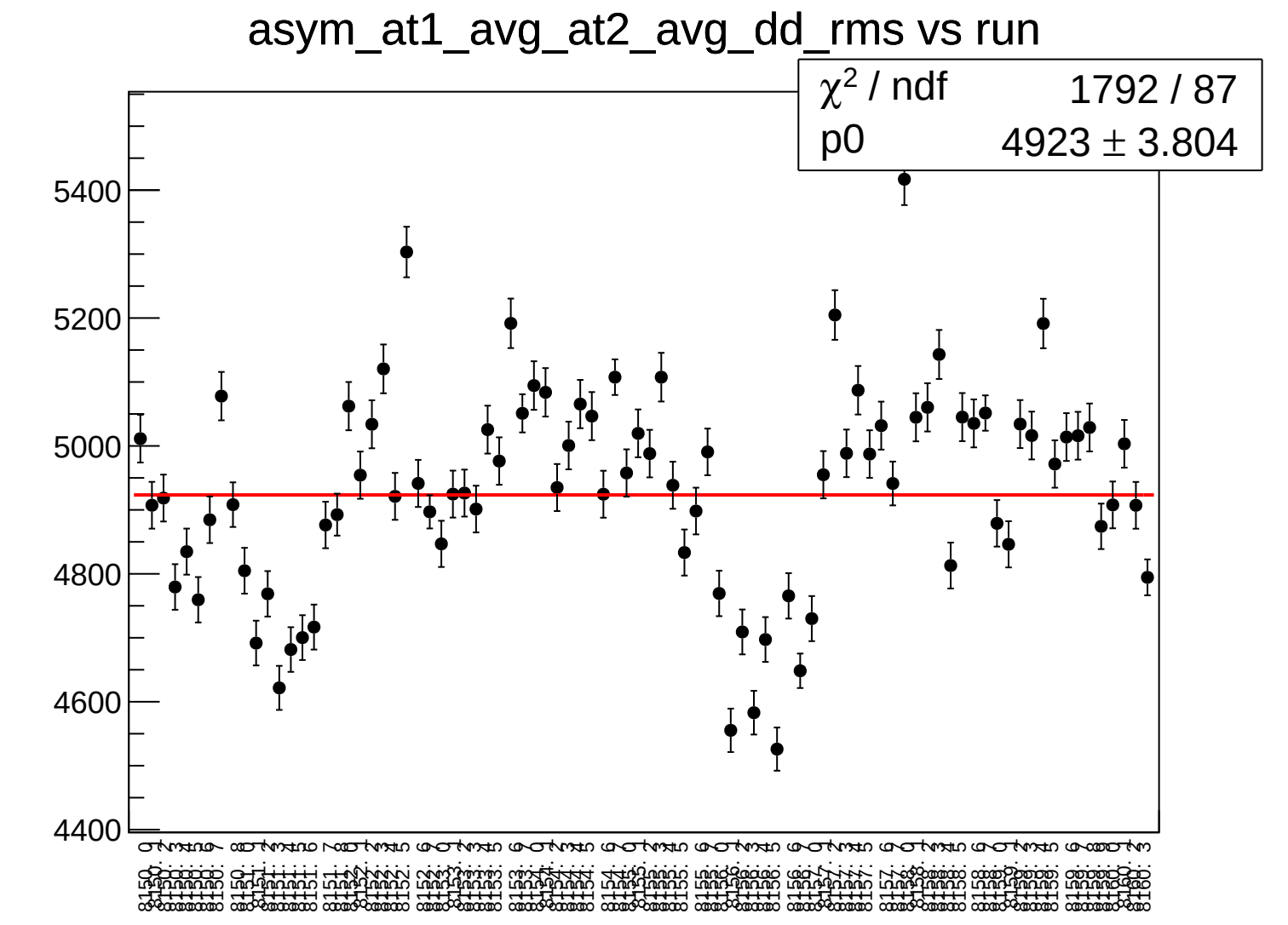

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 83.52 / 87
p0 1317 ± 1.017
1350
1340
1330
1320
1310
1300
1290
1280

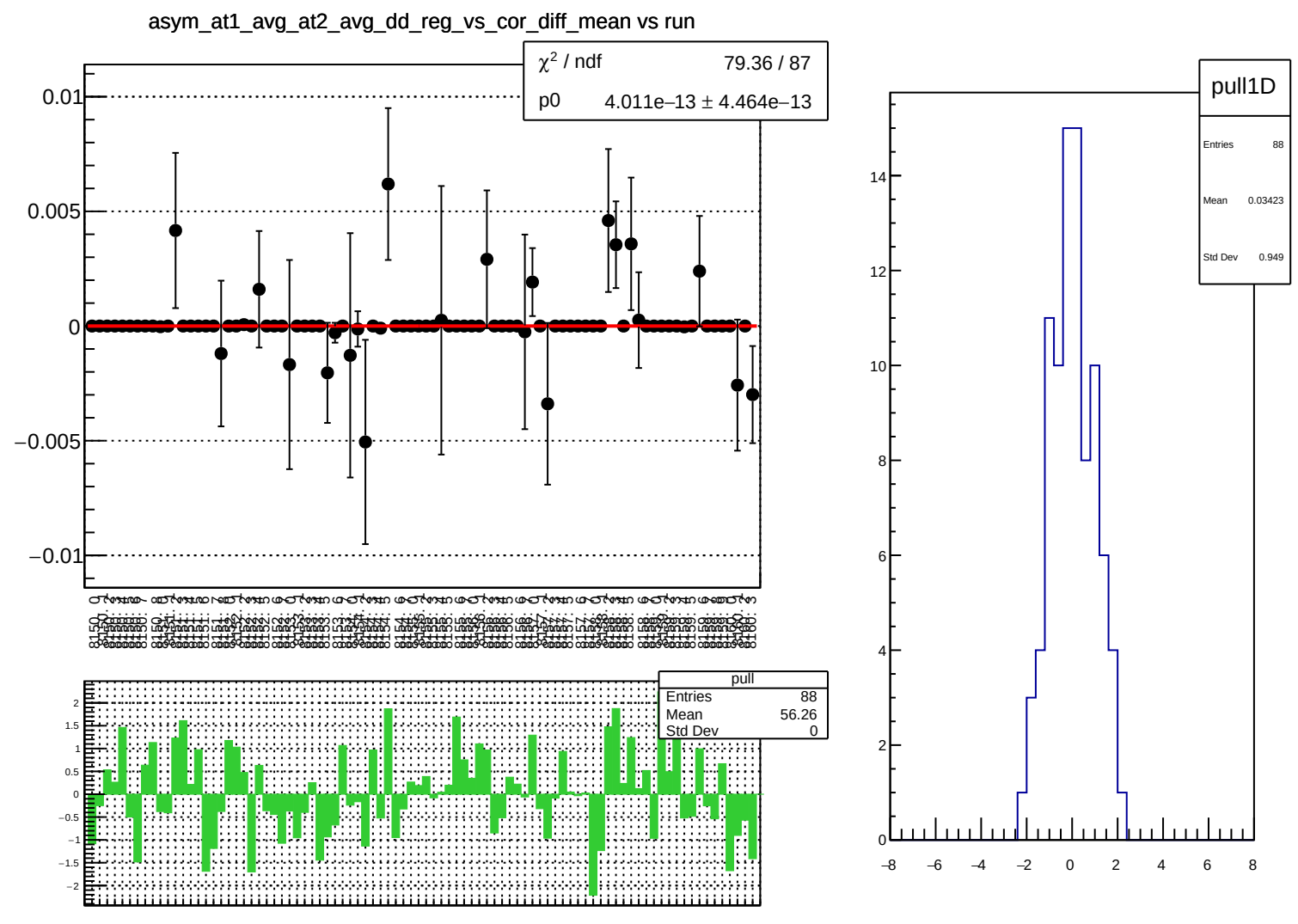

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 107 / 87
p0 7840 ± 5216
pull
Entries 88
Mean −4104
Std Dev 0

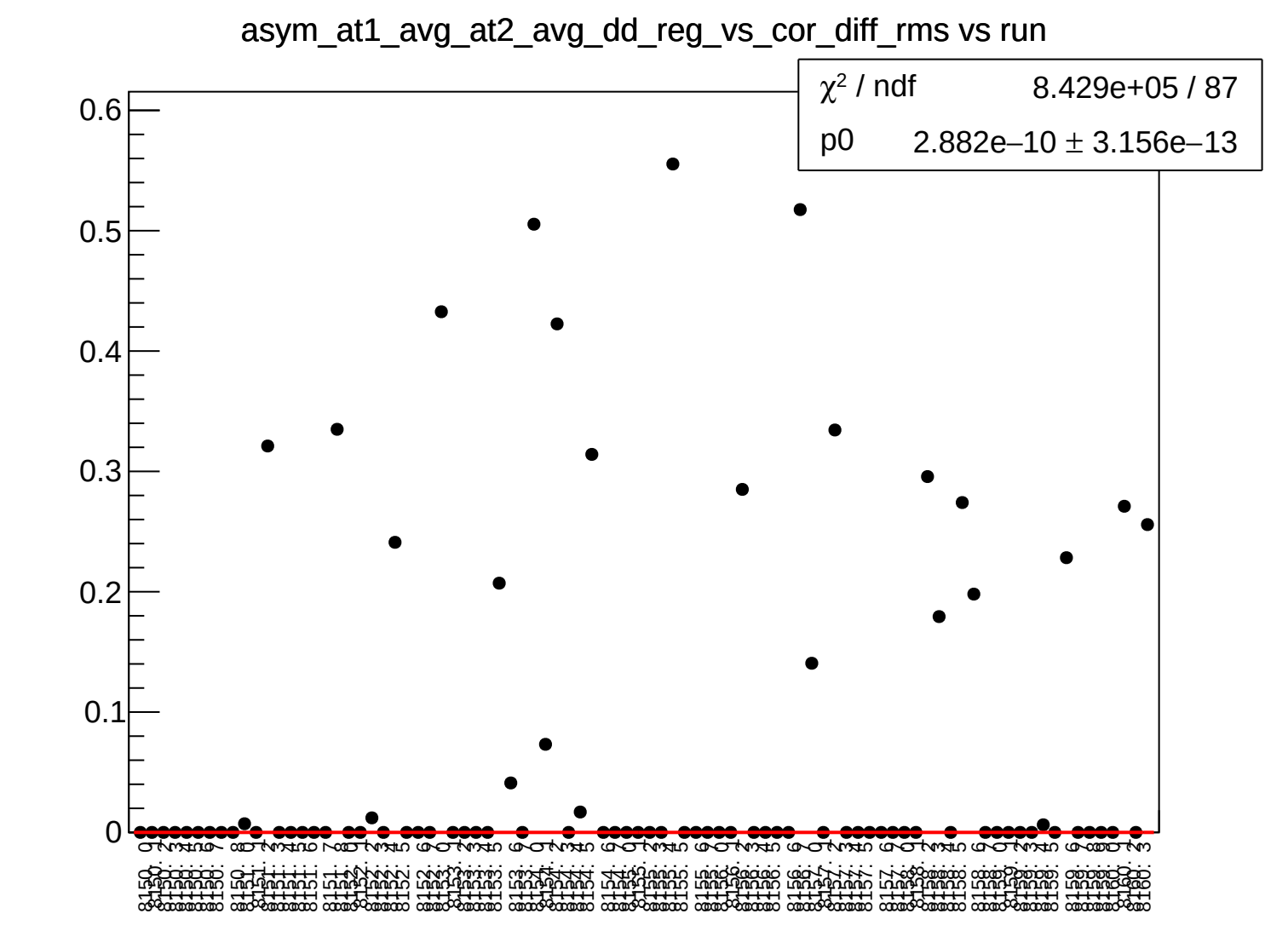

pull1D
Entries 88
Mean −0.0005976
Std Dev 1.103

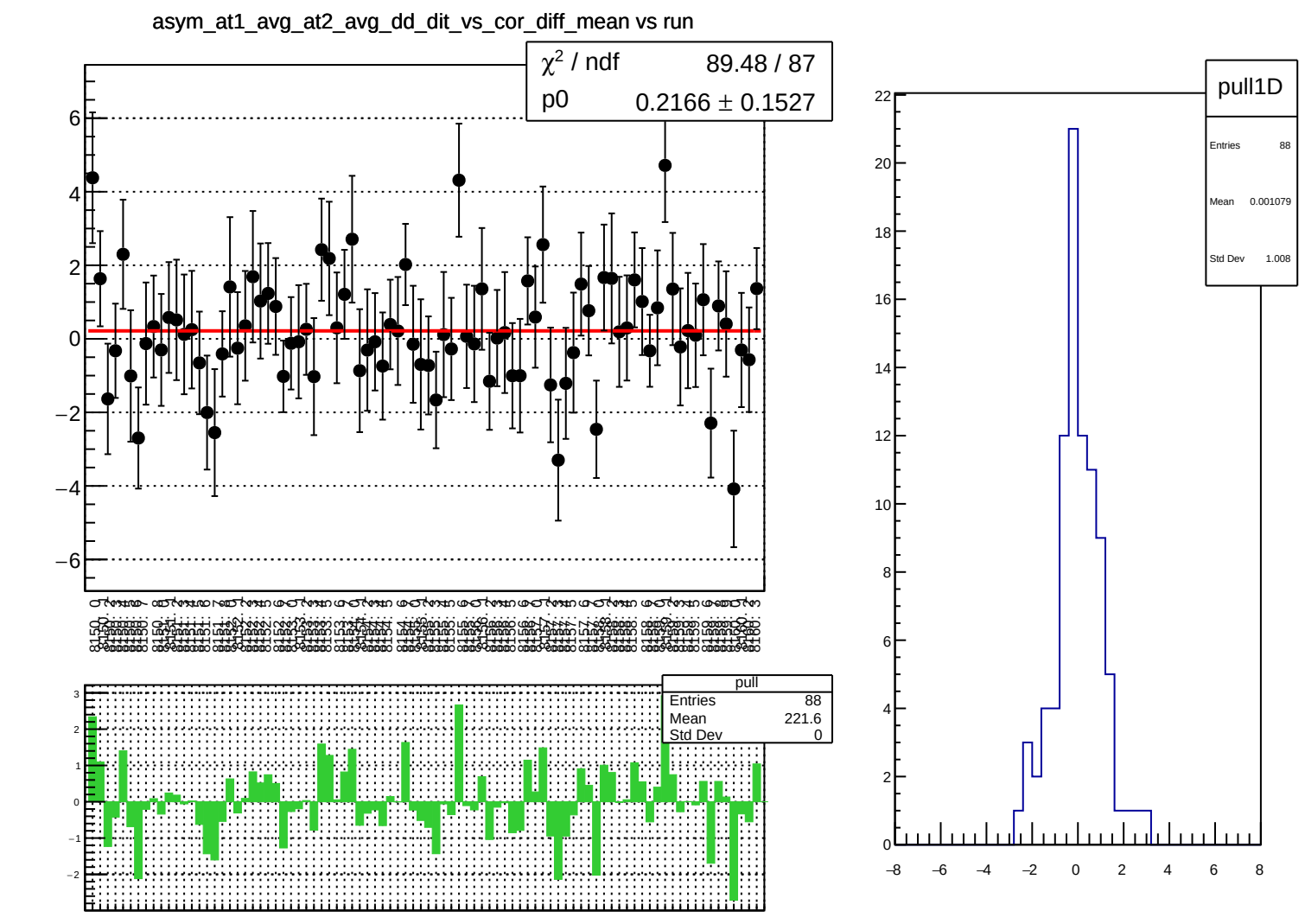

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2352 / 87
p0 4772 ± 3.688
5400
5200
5000
4800
4600
4400
4200

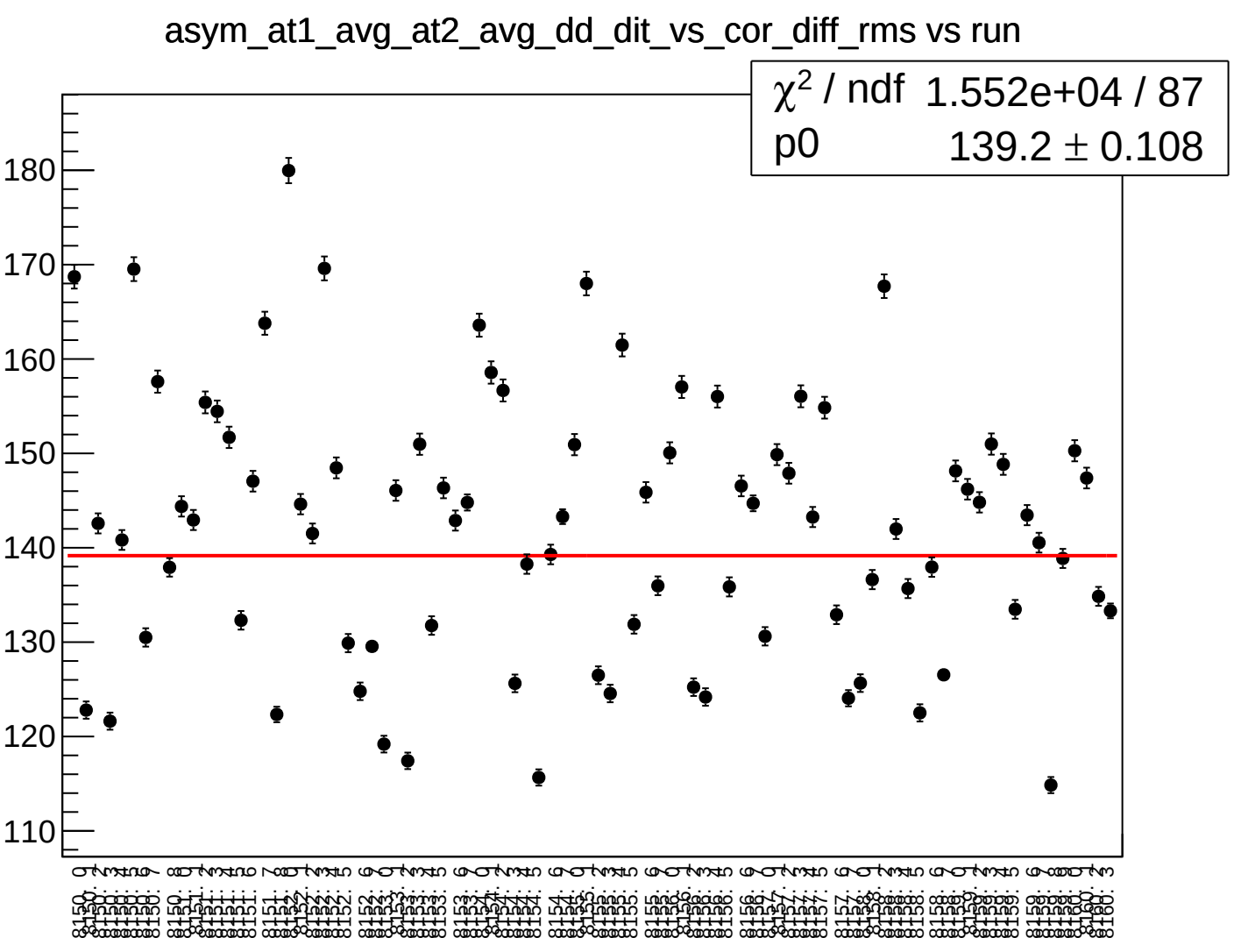

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 103.4 / 87
p0 −8749 ± 5380
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 788.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003172
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

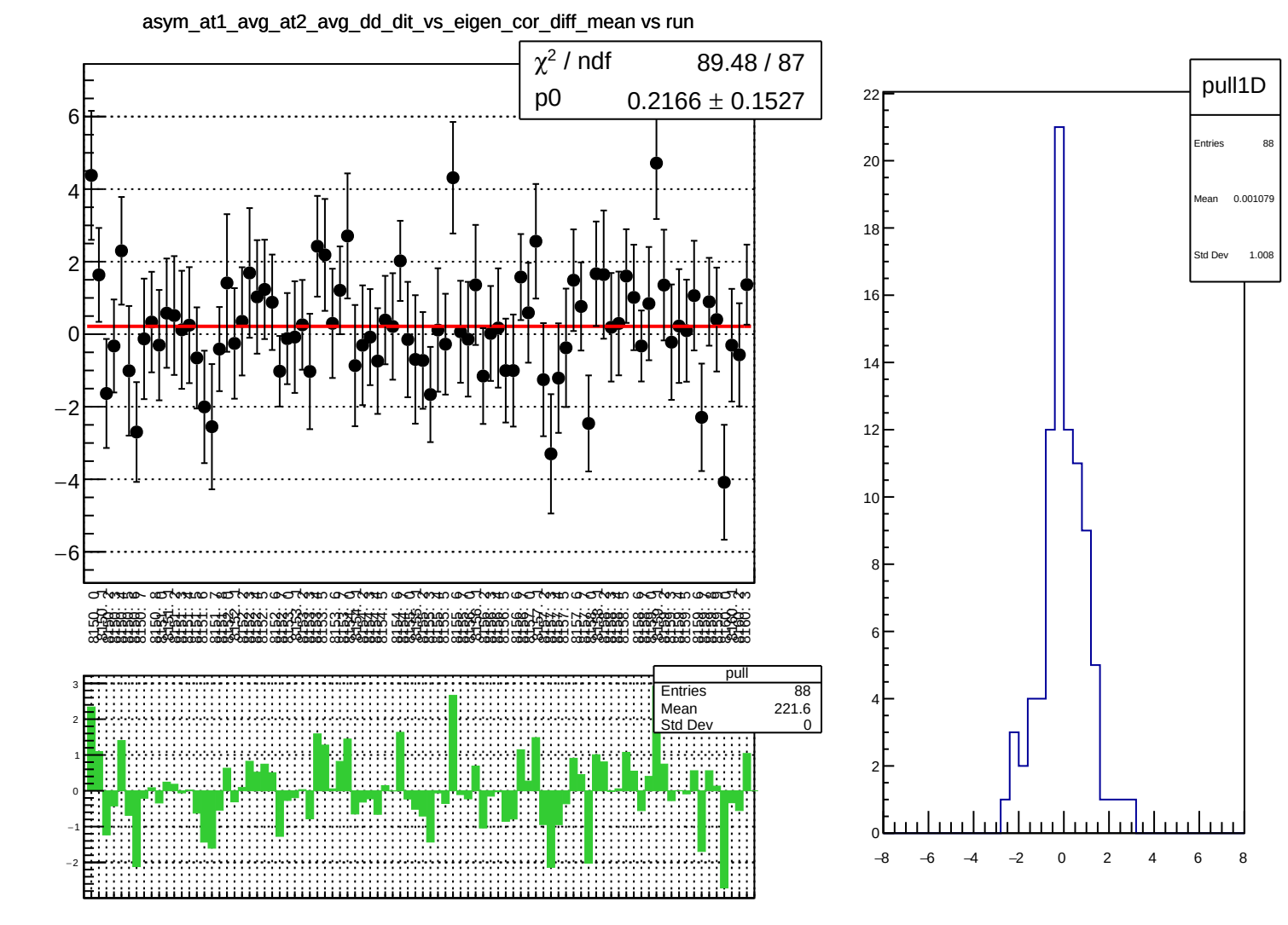

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1792 / 87
p0 4923 ± 3.804
5400
5200
5000
4800
4600
4400

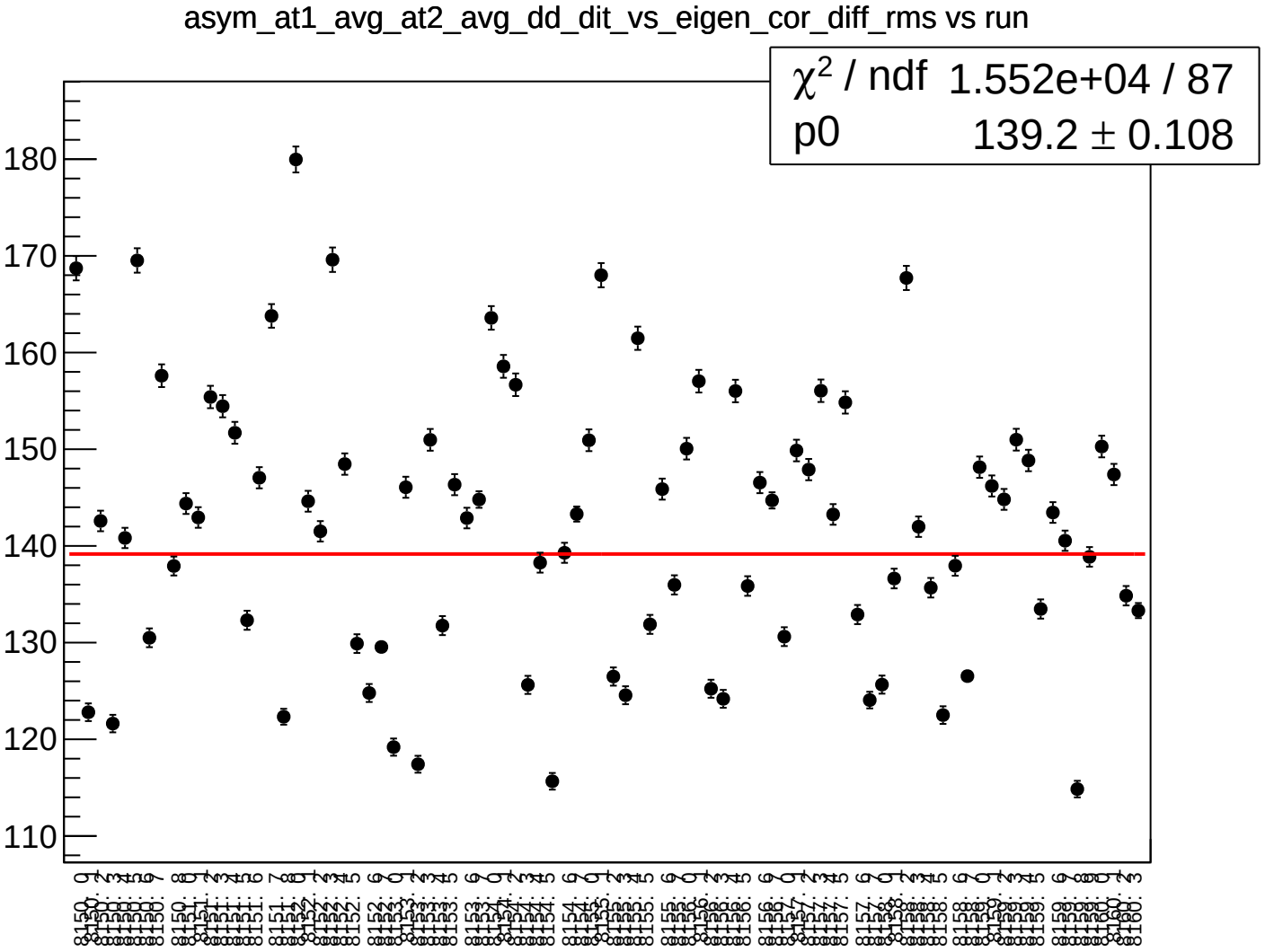

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.36 / 87
p0 4.011e−13 ± 4.464e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 56.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.03423
Std Dev 0.949
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

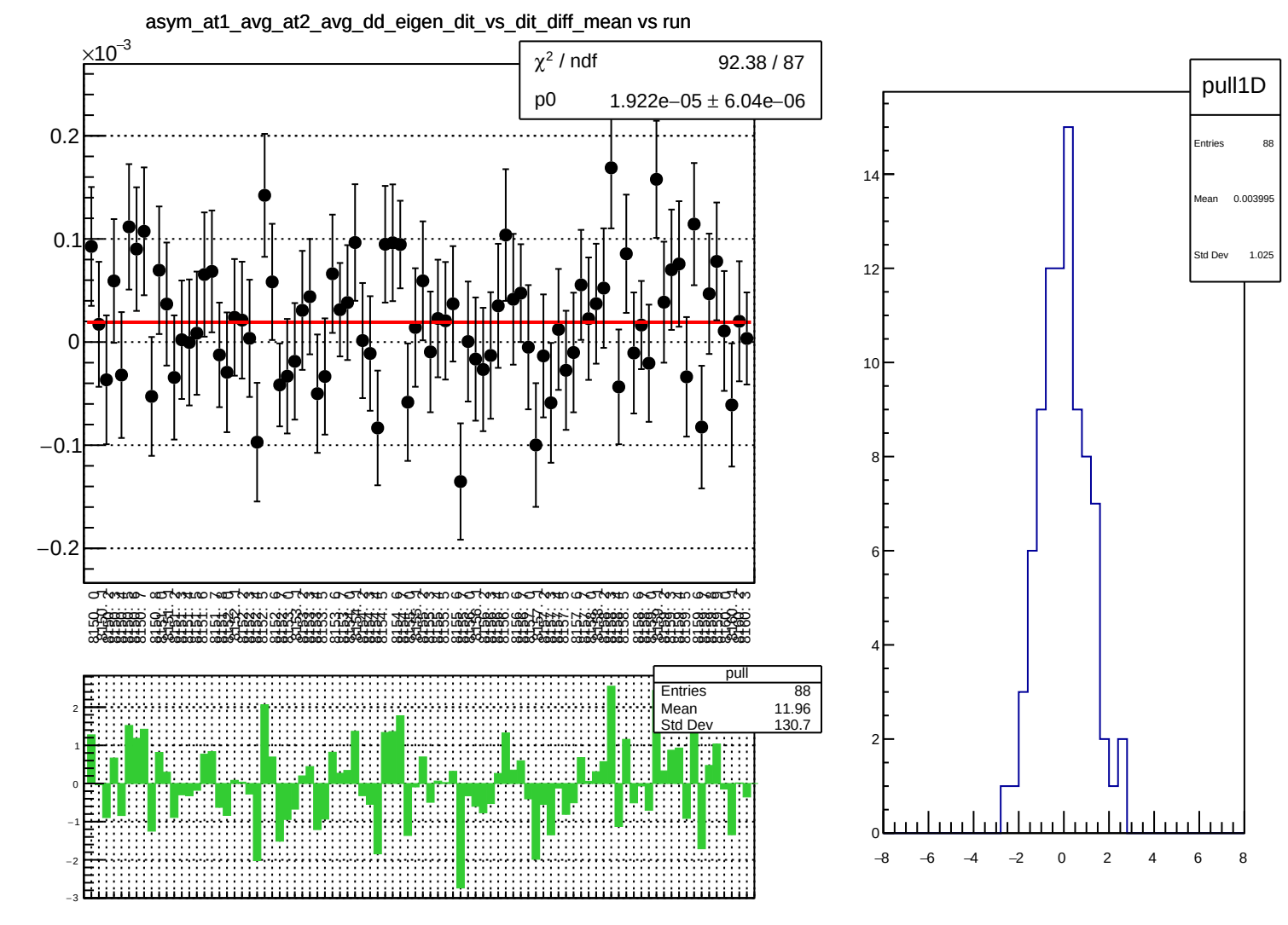

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.429e+05 / 87
p0 2.882e−10 ± 3.156e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

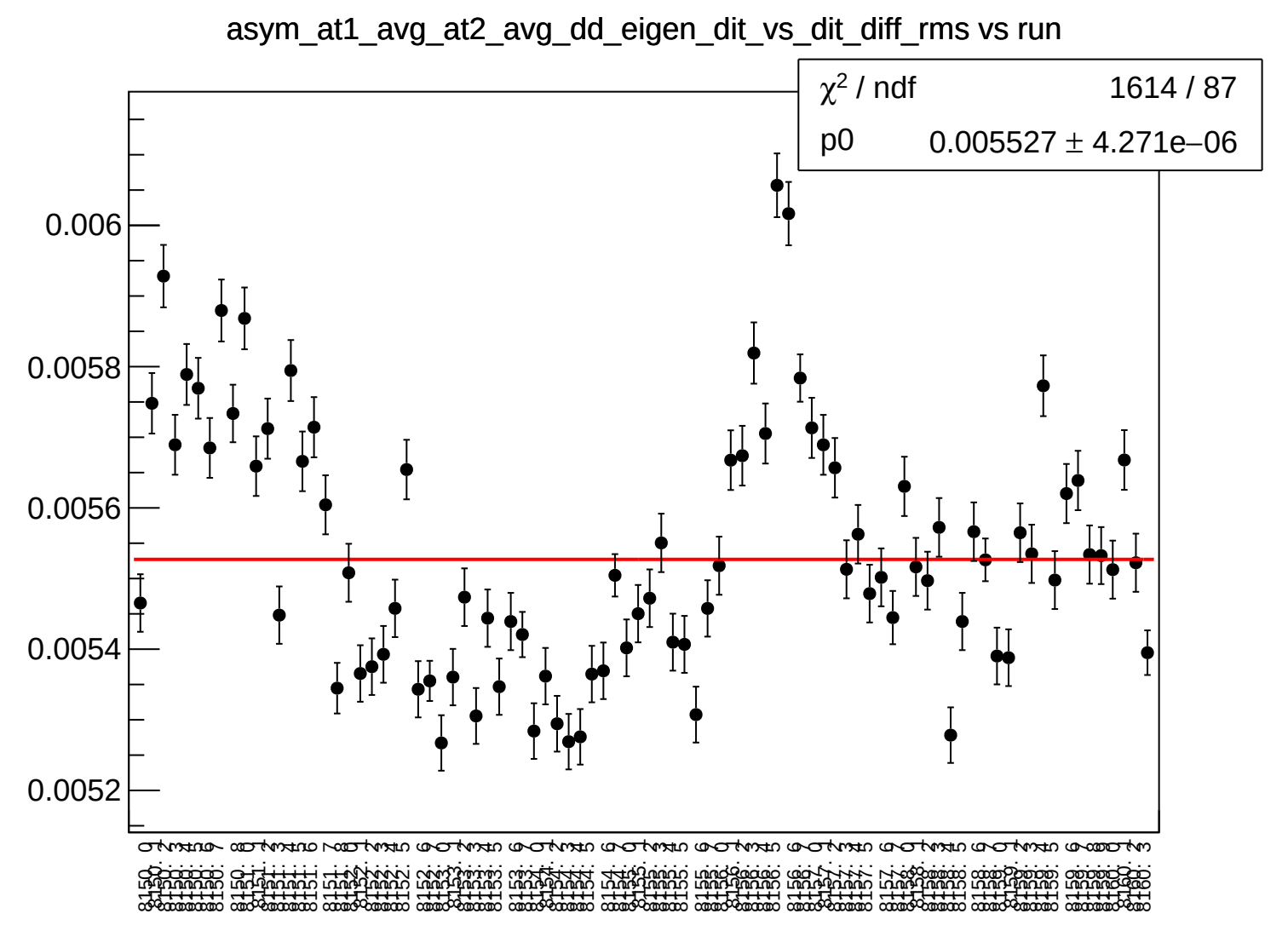

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.48 / 87
p0 0.2166 ± 0.1527
pull
Entries 88
Mean 221.6
Std Dev 0
pull1D
Entries 88
Mean 0.001079
Std Dev 1.008

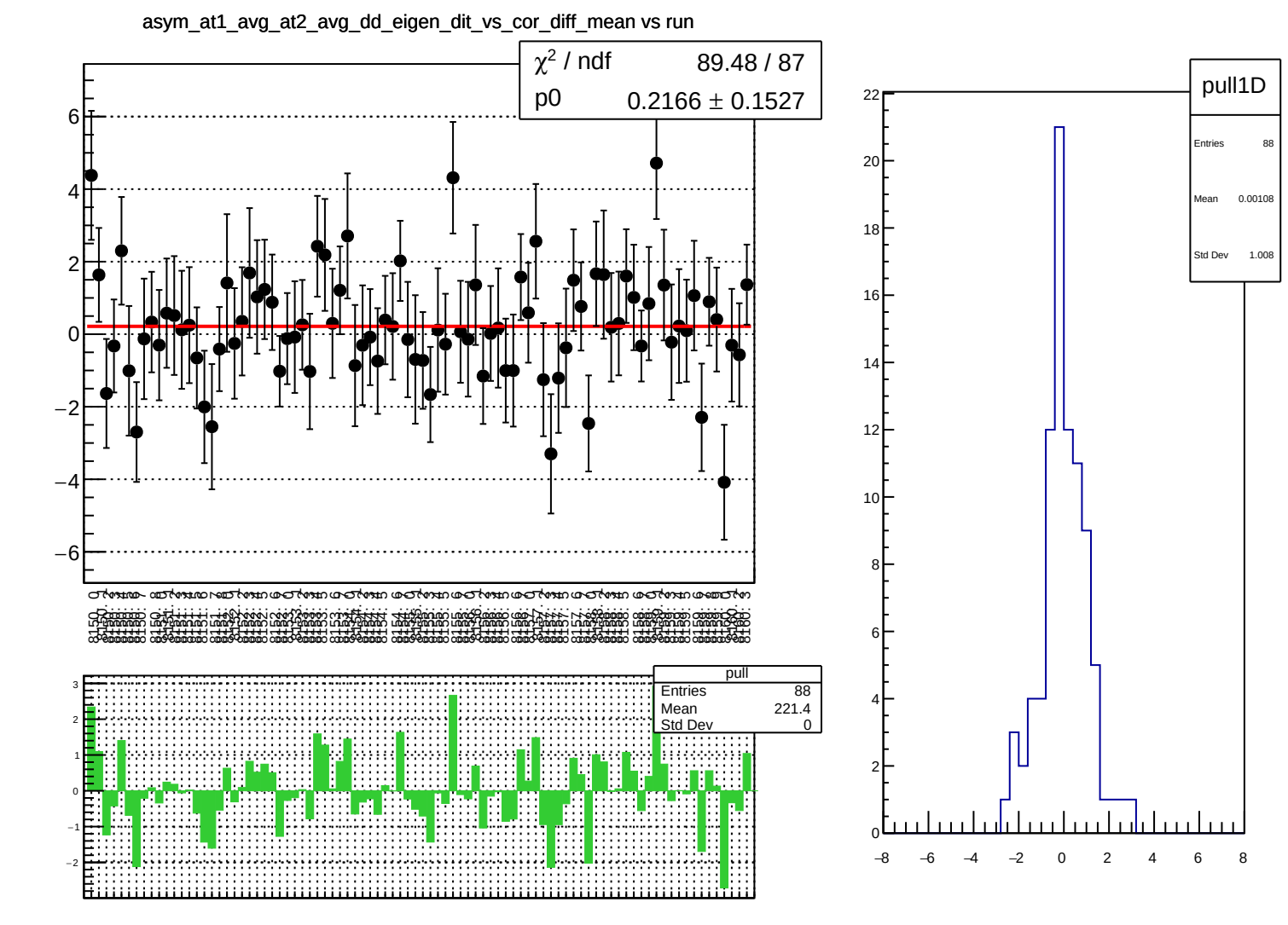

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.552e+04 / 87
p0 139.2 ± 0.108
180
170
160
150
140
130
120
110

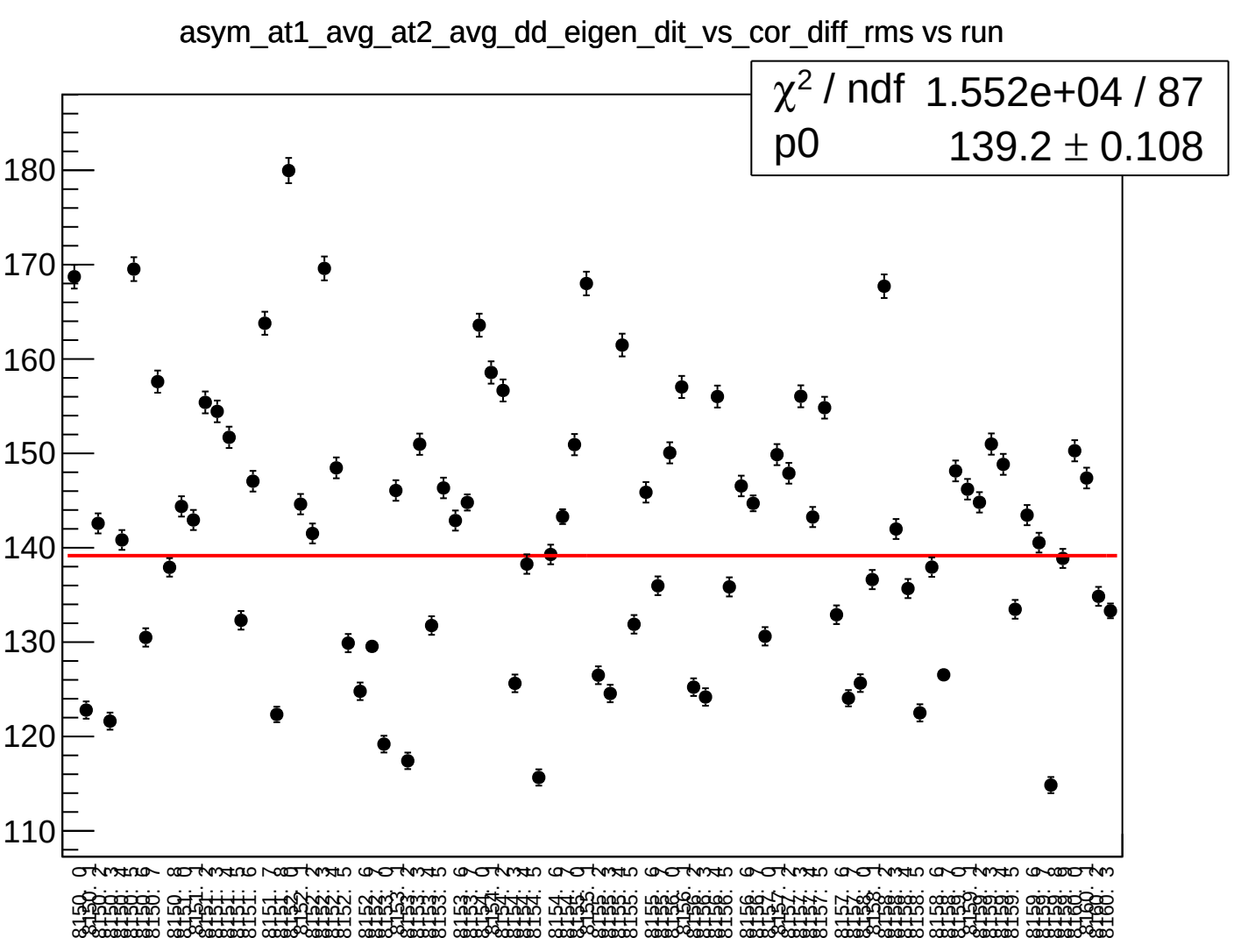

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.48 / 87
p0 0.2166 ± 0.1527
pull
Entries 88
Mean 221.6
Std Dev 0
pull1D
Entries 88
Mean 0.001079
Std Dev 1.008

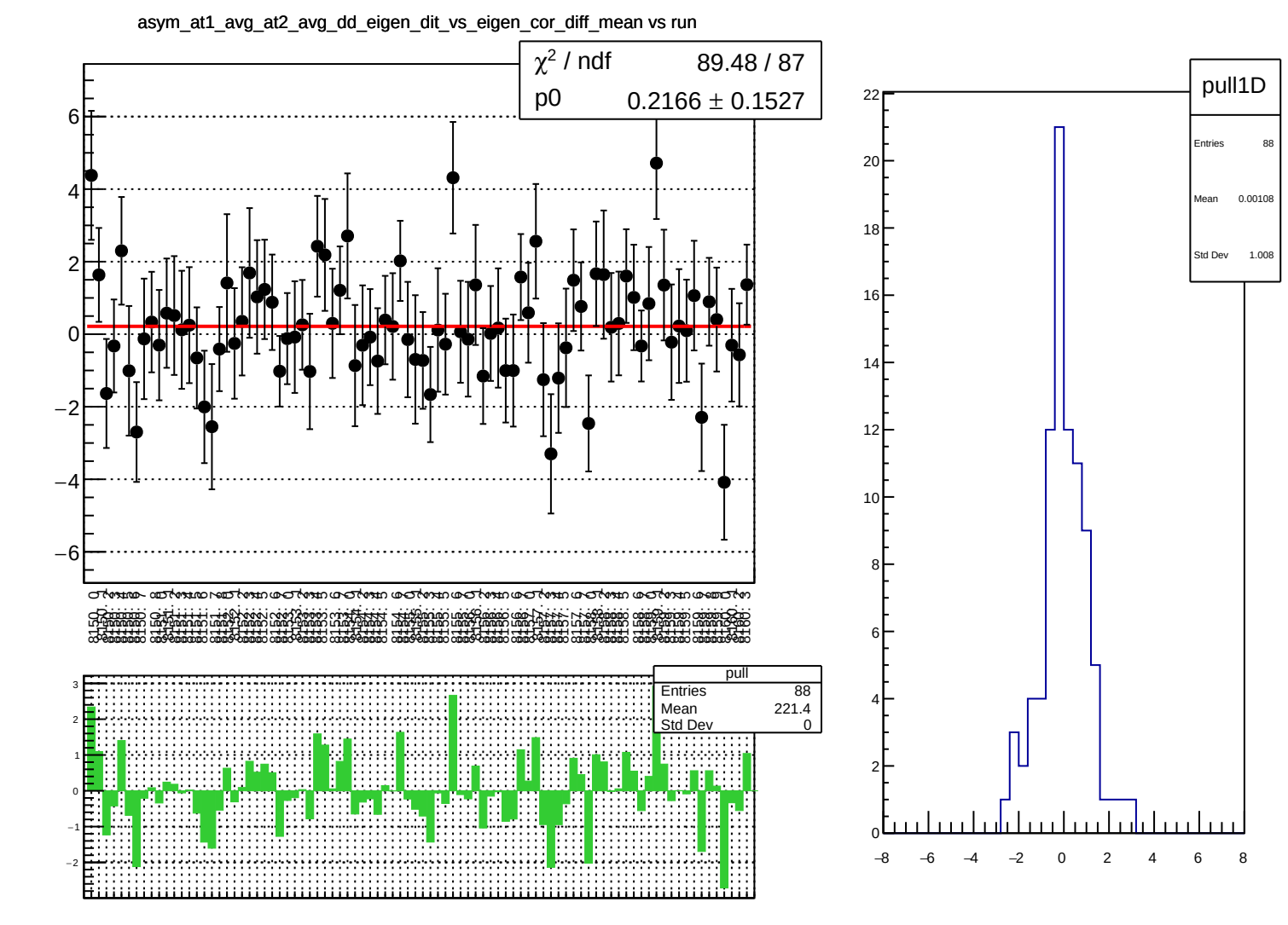

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.552e+04 / 87
p0 139.2 ± 0.108
180
170
160
150
140
130
120
110

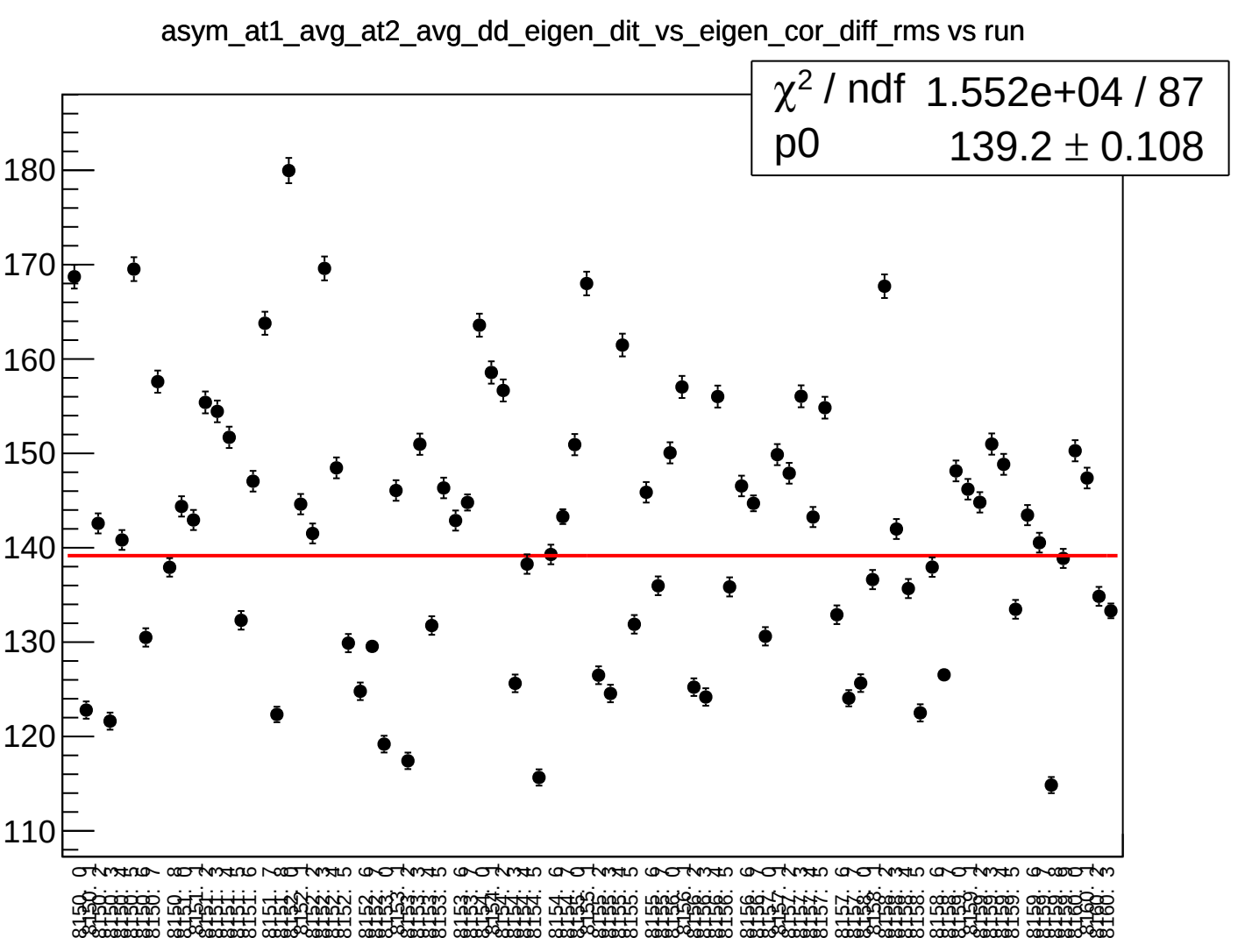

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.38 / 87
p0 1.922e−05 ± 6.04e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean 11.96
Std Dev 130.7
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.003995
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

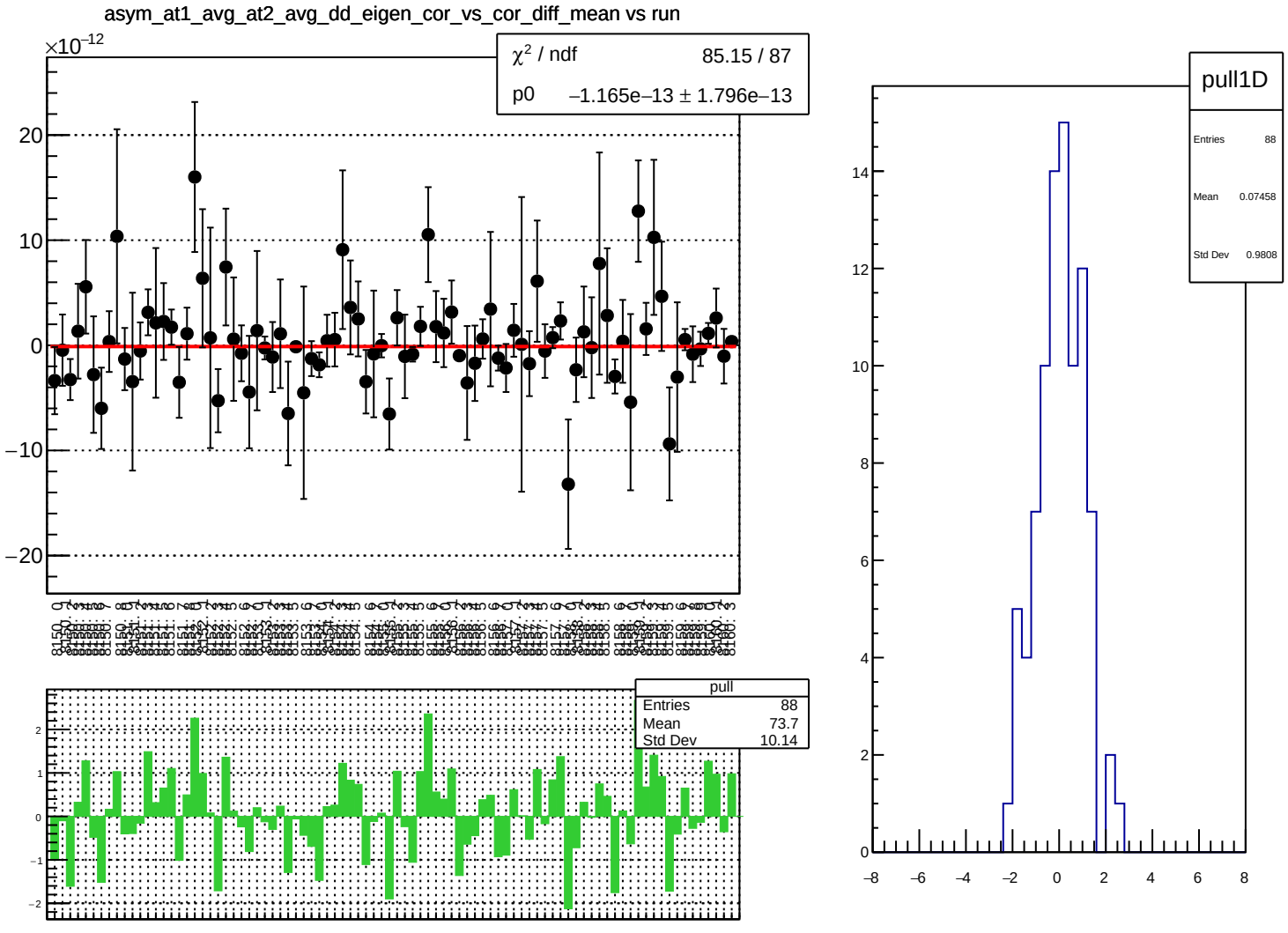

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1614 / 87
p0 0.005527 ± 4.271e−06
0.006
0.0058
0.0056
0.0054
0.0052

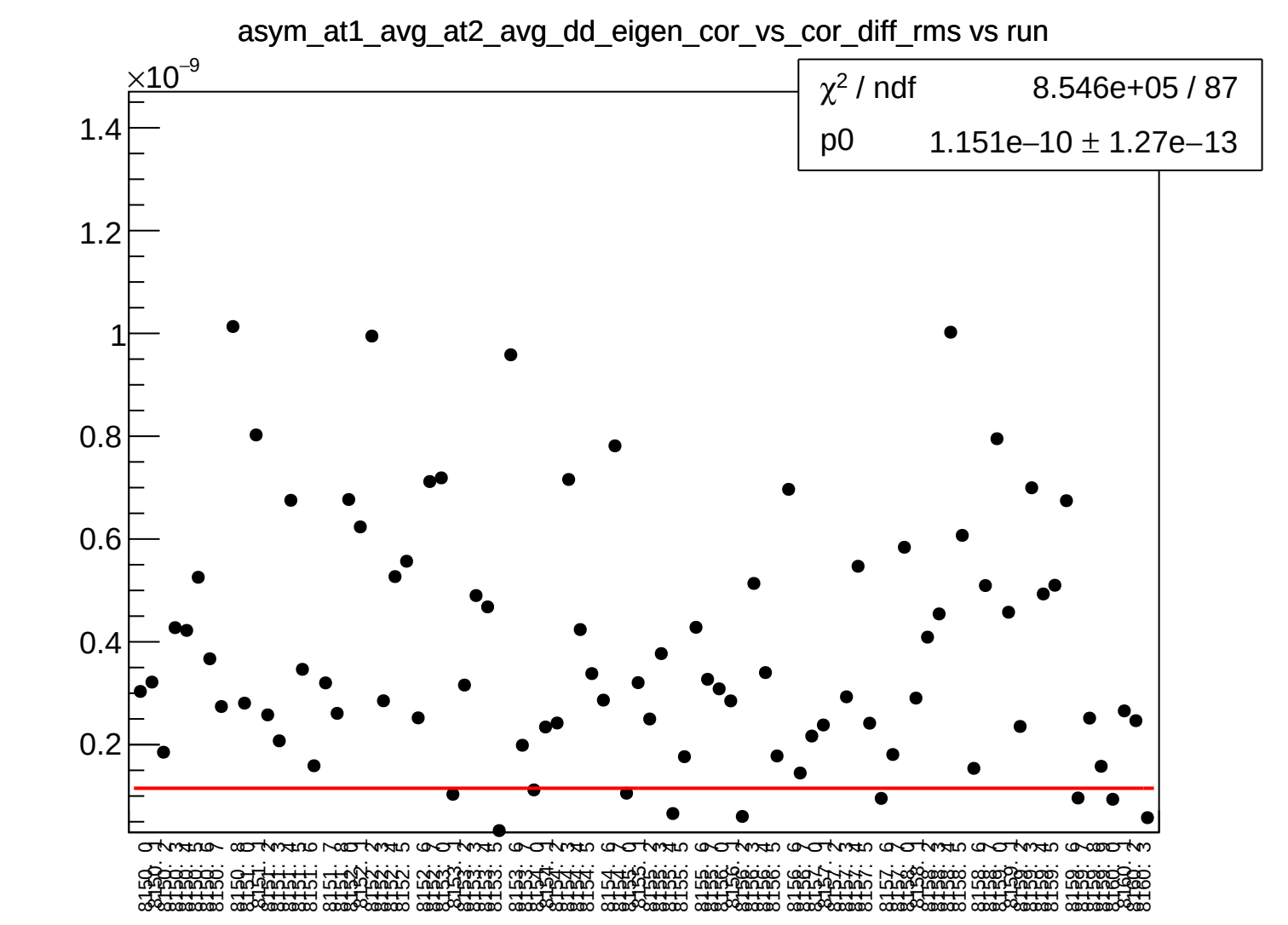

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.48 / 87
p0 0.2166 ± 0.1527
pull
Entries 88
Mean 221.4
Std Dev 0
pull1D
Entries 88
Mean 0.00108
Std Dev 1.008

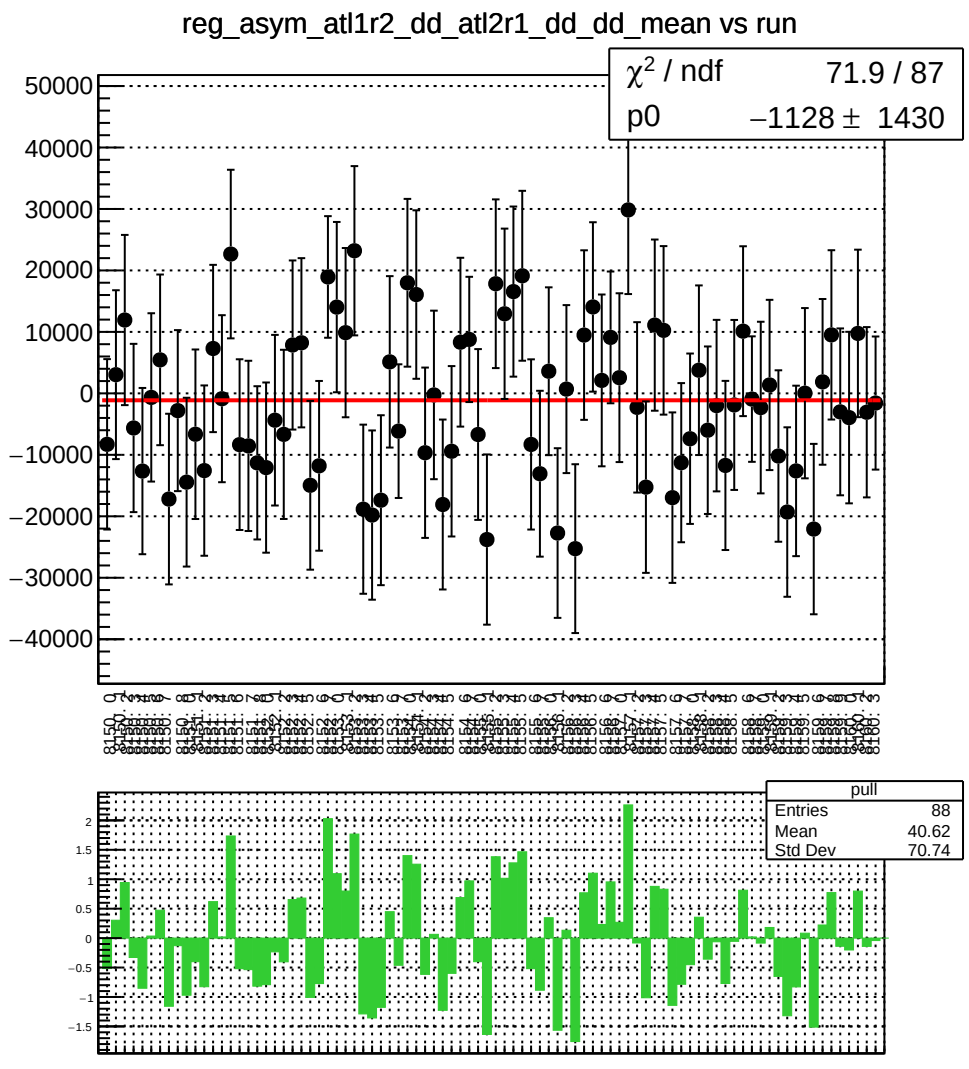

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.552e+04 / 87
p0 139.2 ± 0.108
180
170
160
150
140
130
120
110

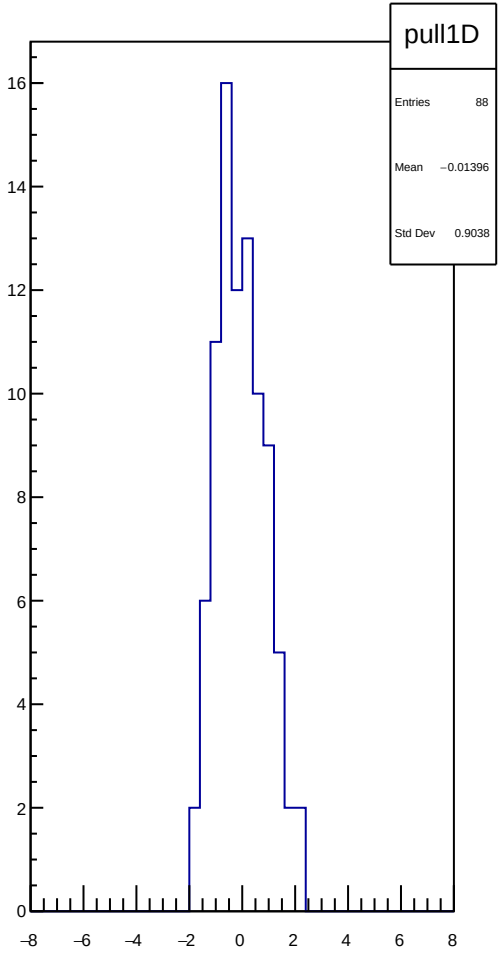

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.48 / 87
p0 0.2166 ± 0.1527
pull
Entries 88
Mean 221.4
Std Dev 0
pull1D
Entries 88
Mean 0.00108
Std Dev 1.008

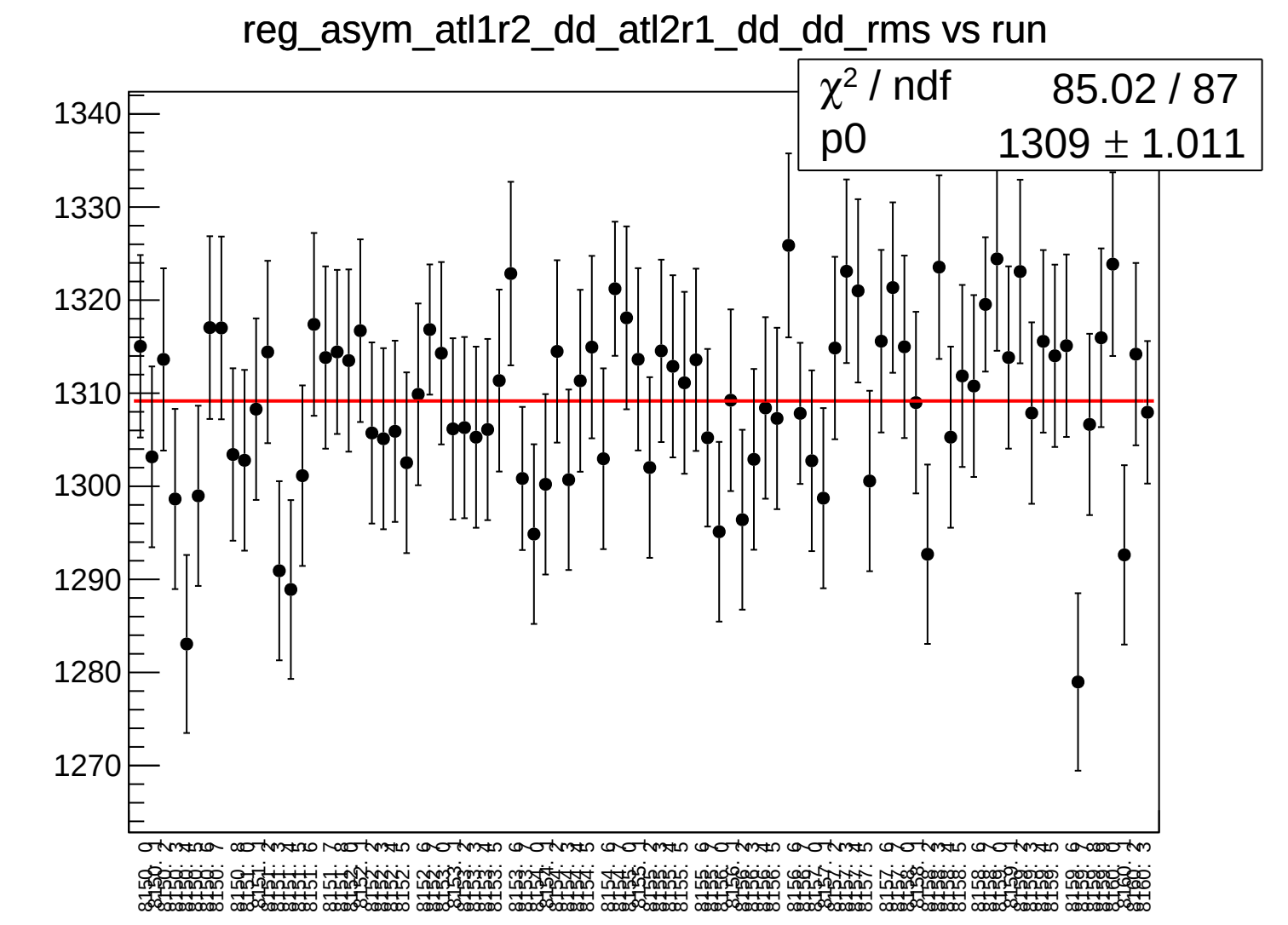

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.552e+04 / 87
p0 139.2 ± 0.108
180
170
160
150
140
130
120
110

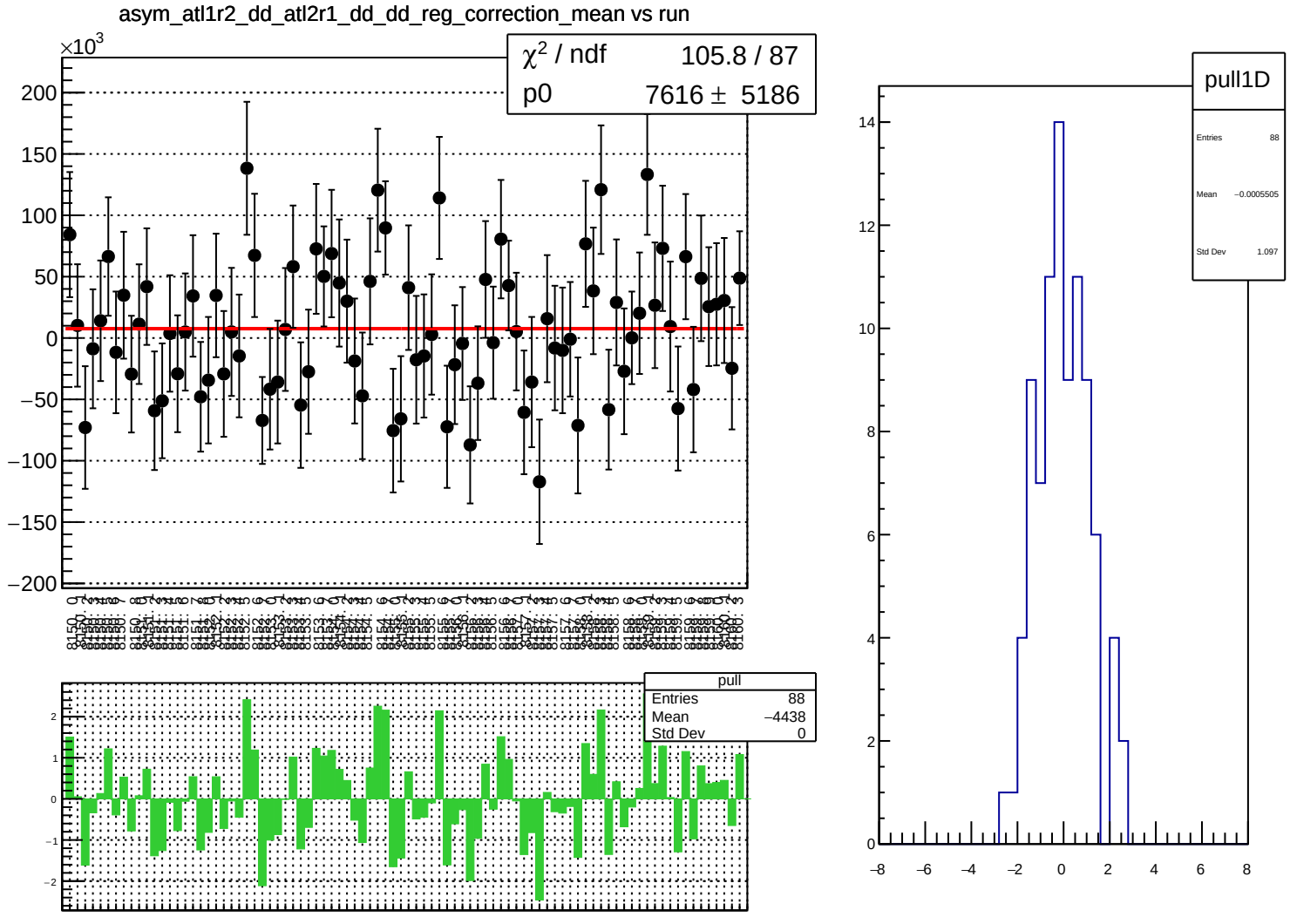

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.15 / 87
p0 −1.165e−13 ± 1.796e−13
20
10
0
−10
−20
pull
Entries 88
Mean 73.7
Std Dev 10.14
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.07458
Std Dev 0.9808
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

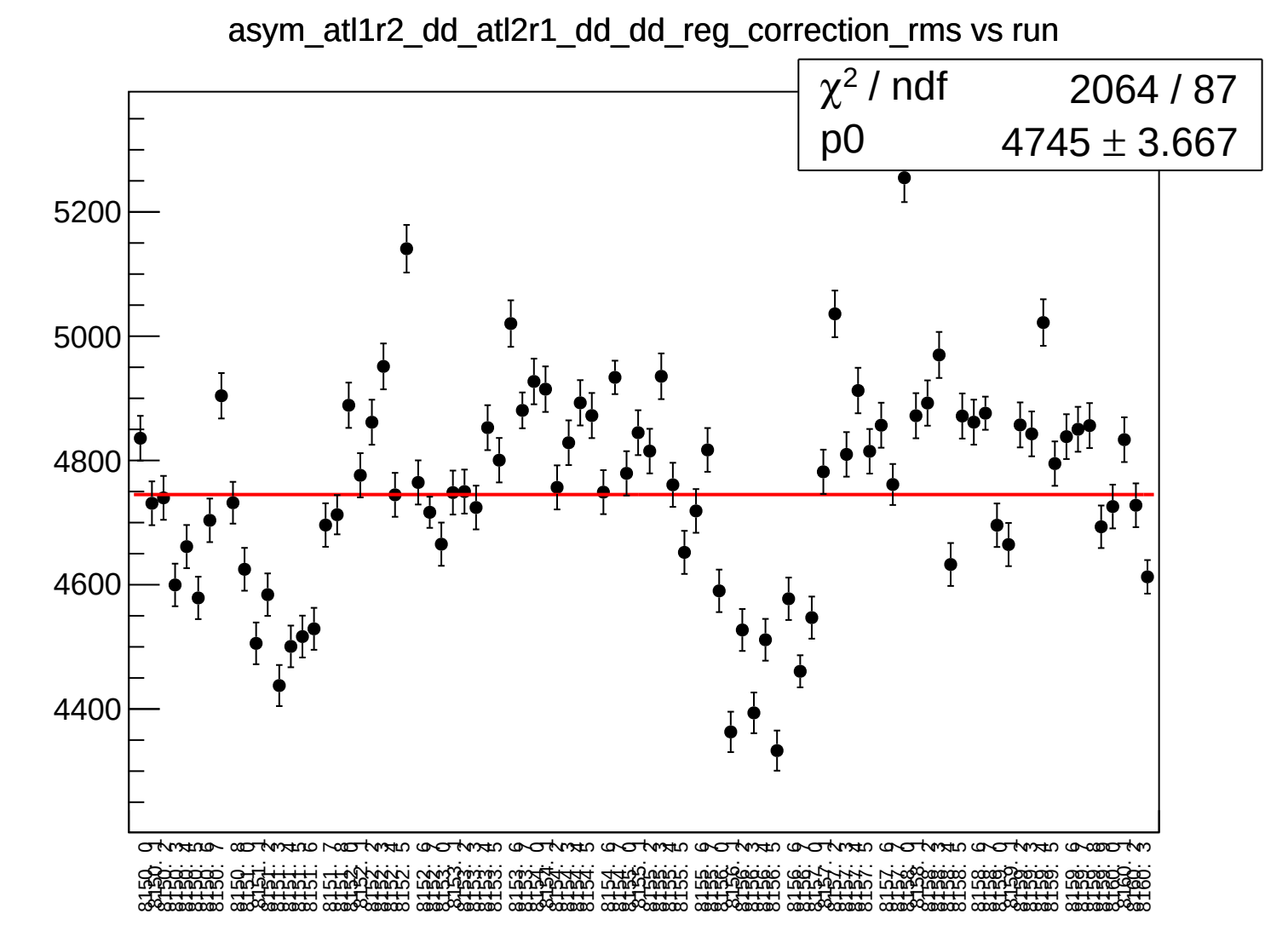

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.546e+05 / 87
p0 1.151e−10 ± 1.27e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

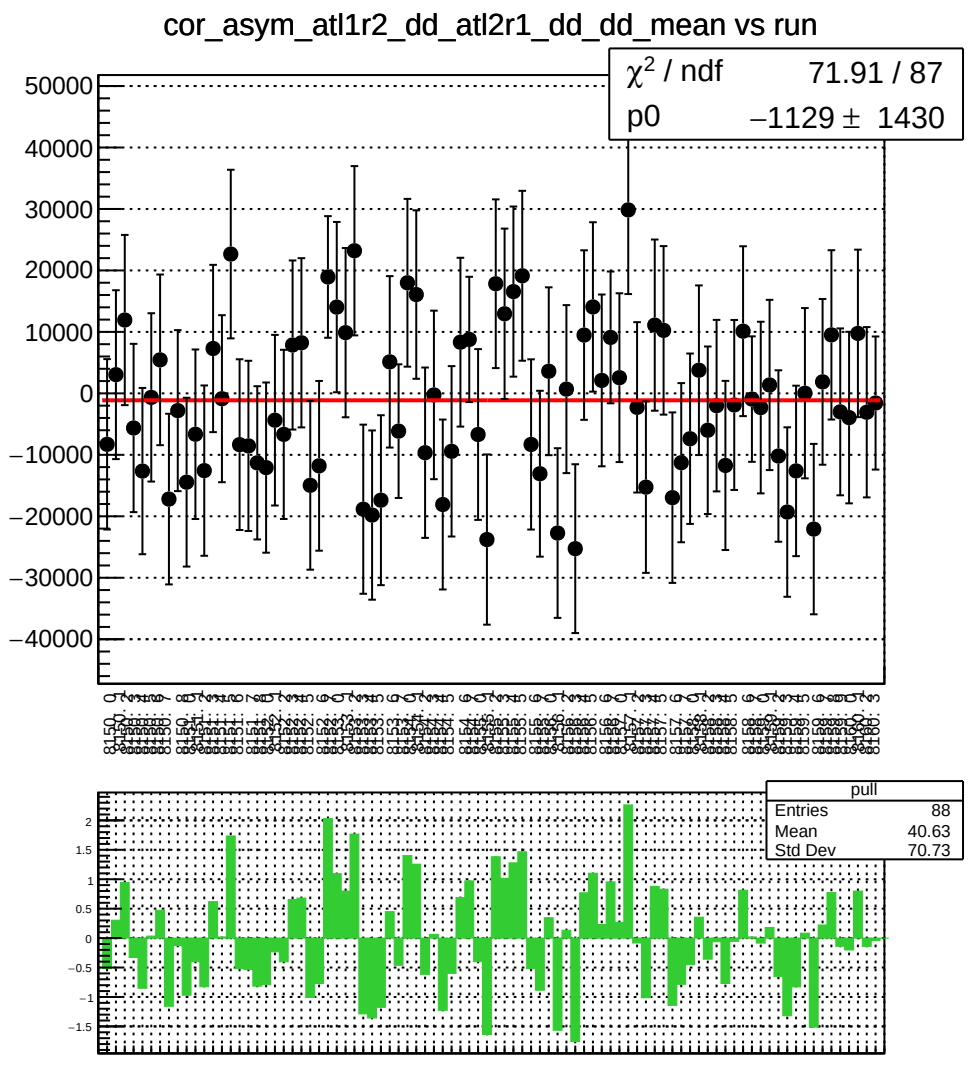

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 71.9 / 87
p0 −1128 ± 1430
pull
Entries 88
Mean 40.62
Std Dev 70.74

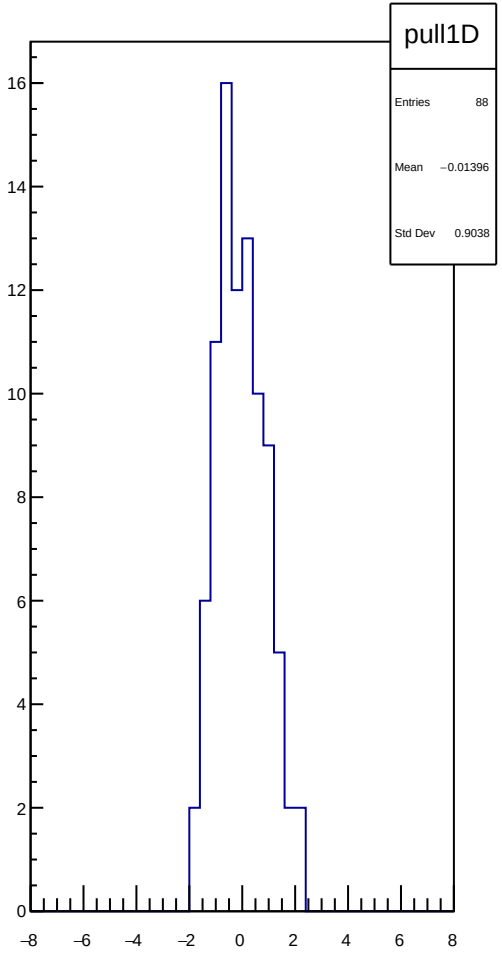

pull1D
Entries 88
Mean −0.01396
Std Dev 0.9038

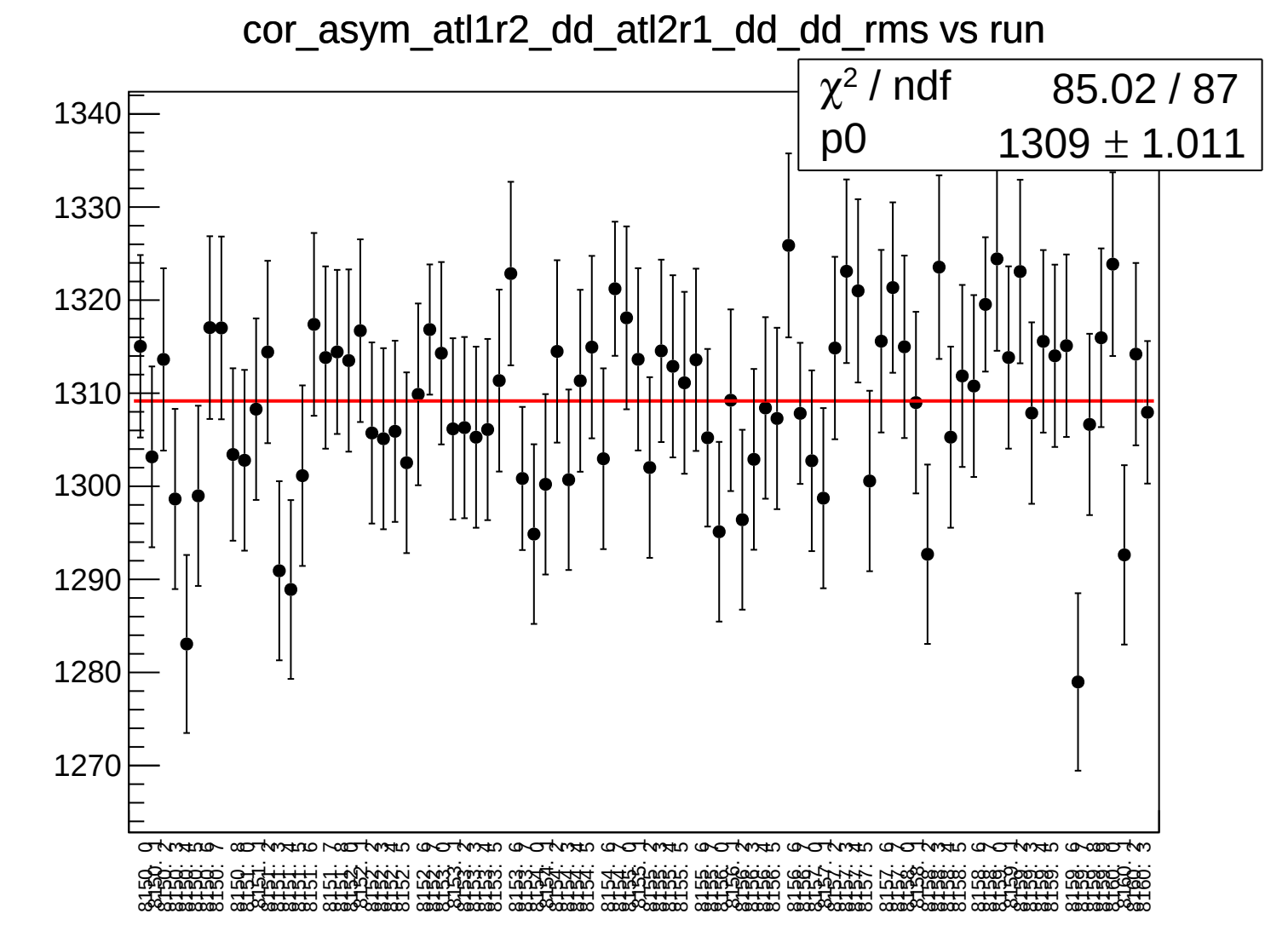

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 85.02 / 87
p0 1309 ± 1.011
1340
1330
1320
1310
1300
1290
1280
1270

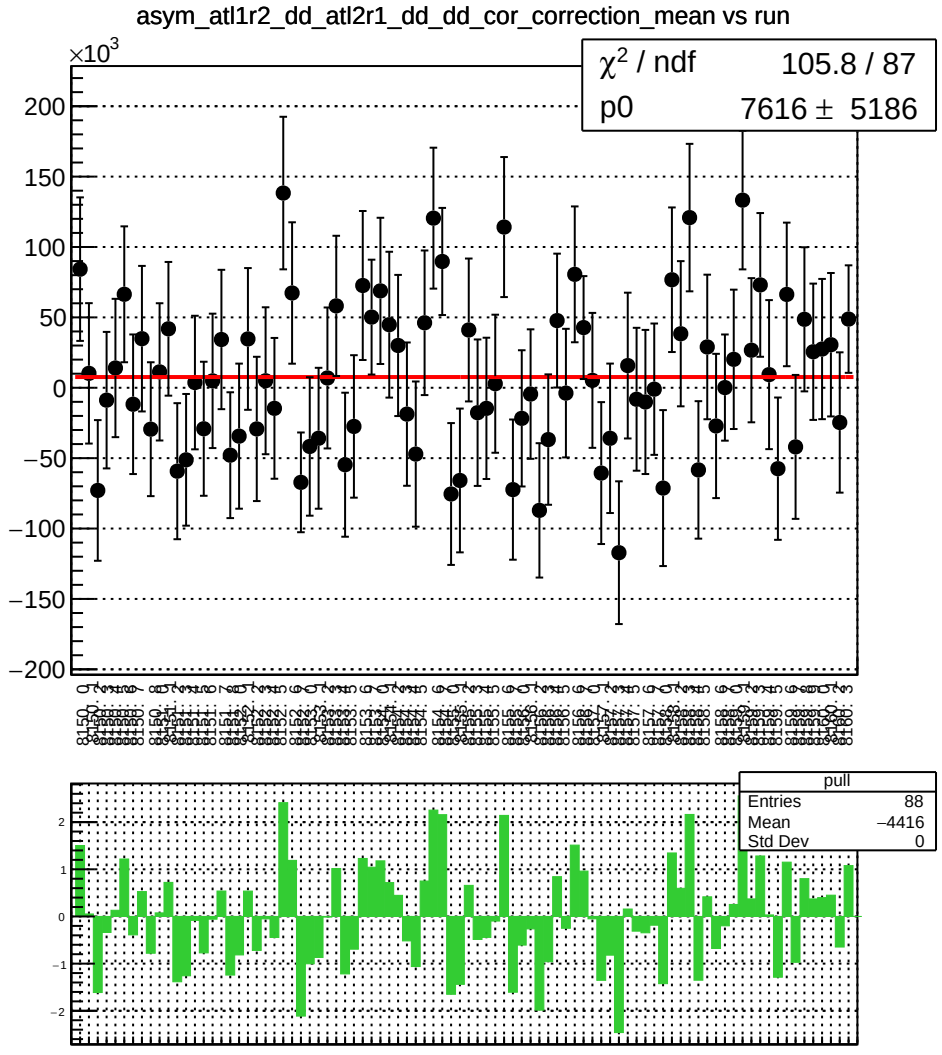

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 105.8 / 87
p0 7616 ± 5186
pull
Entries 88
Mean −4438
Std Dev 0
pull1D
Entries 88
Mean −0.0005505
Std Dev 1.097

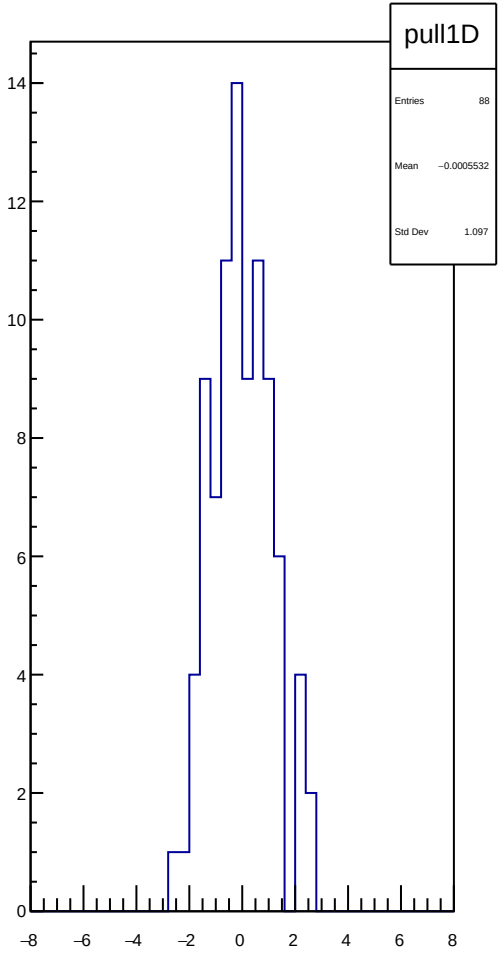

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 2064 / 87
p0 4745 ± 3.667
5200
5000
4800
4600
4400

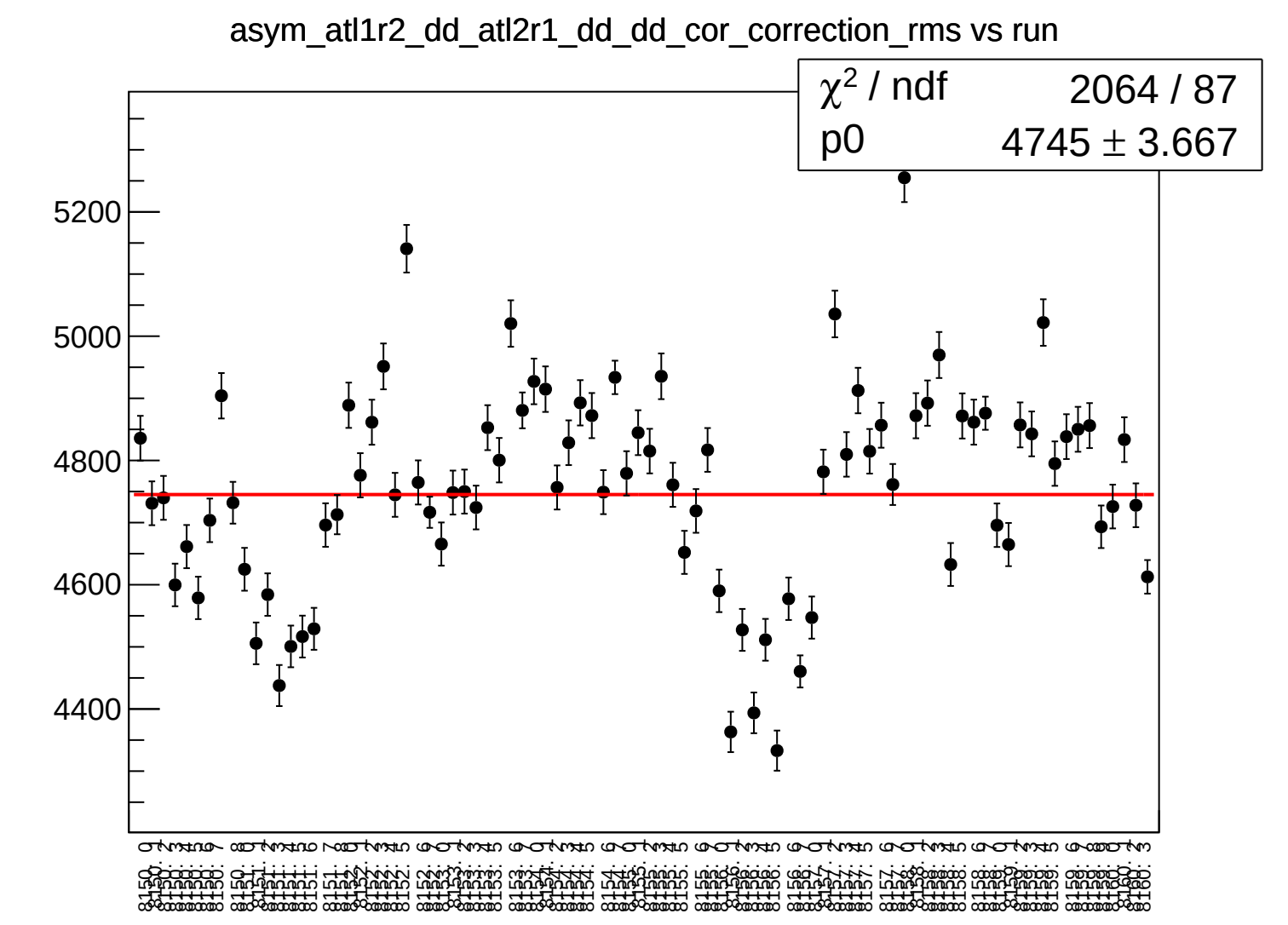

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 71.91 / 87
p0 −1129 ± 1430
pull
Entries 88
Mean 40.63
Std Dev 70.73

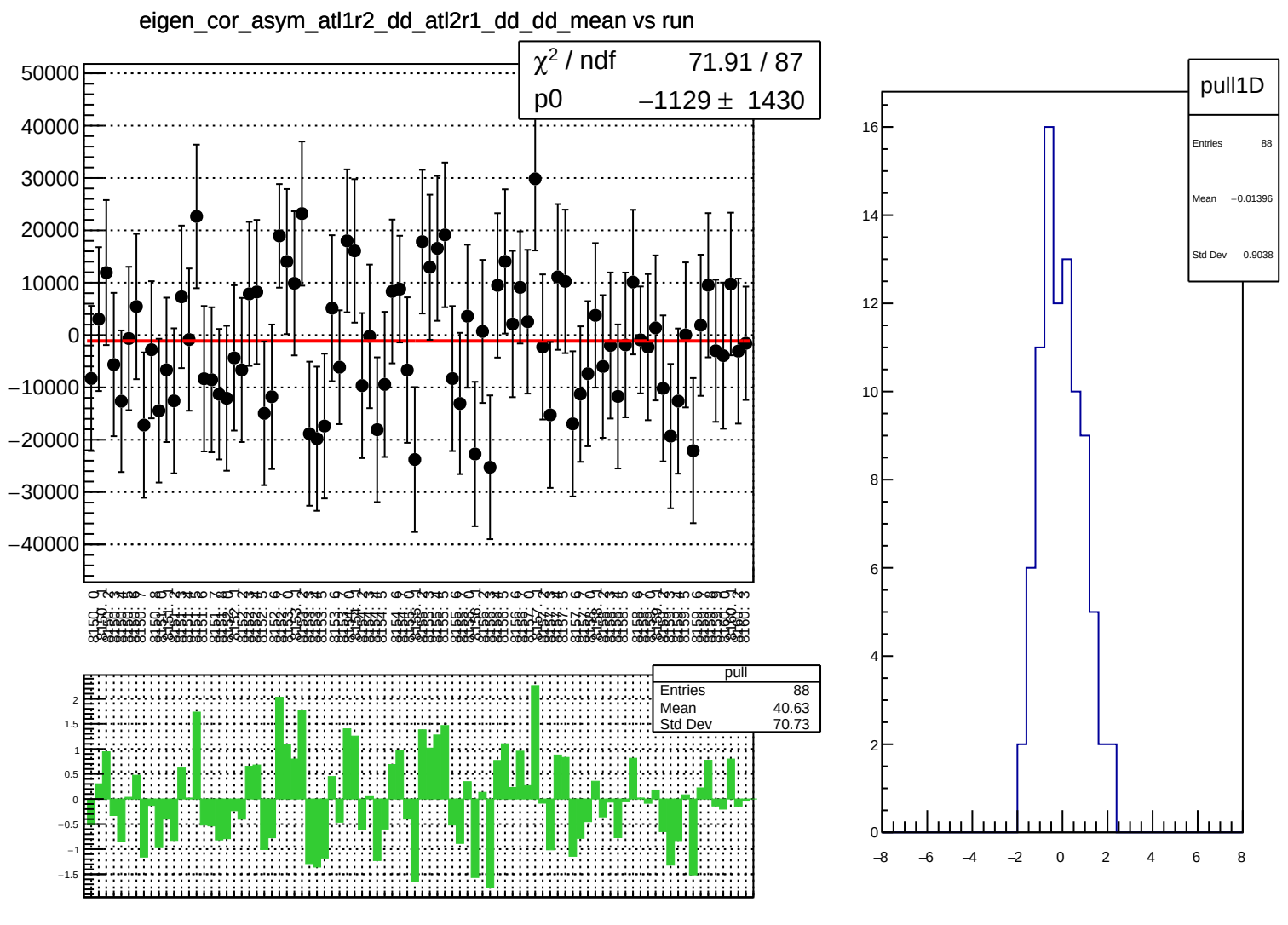

pull1D
Entries 88
Mean −0.01396
Std Dev 0.9038

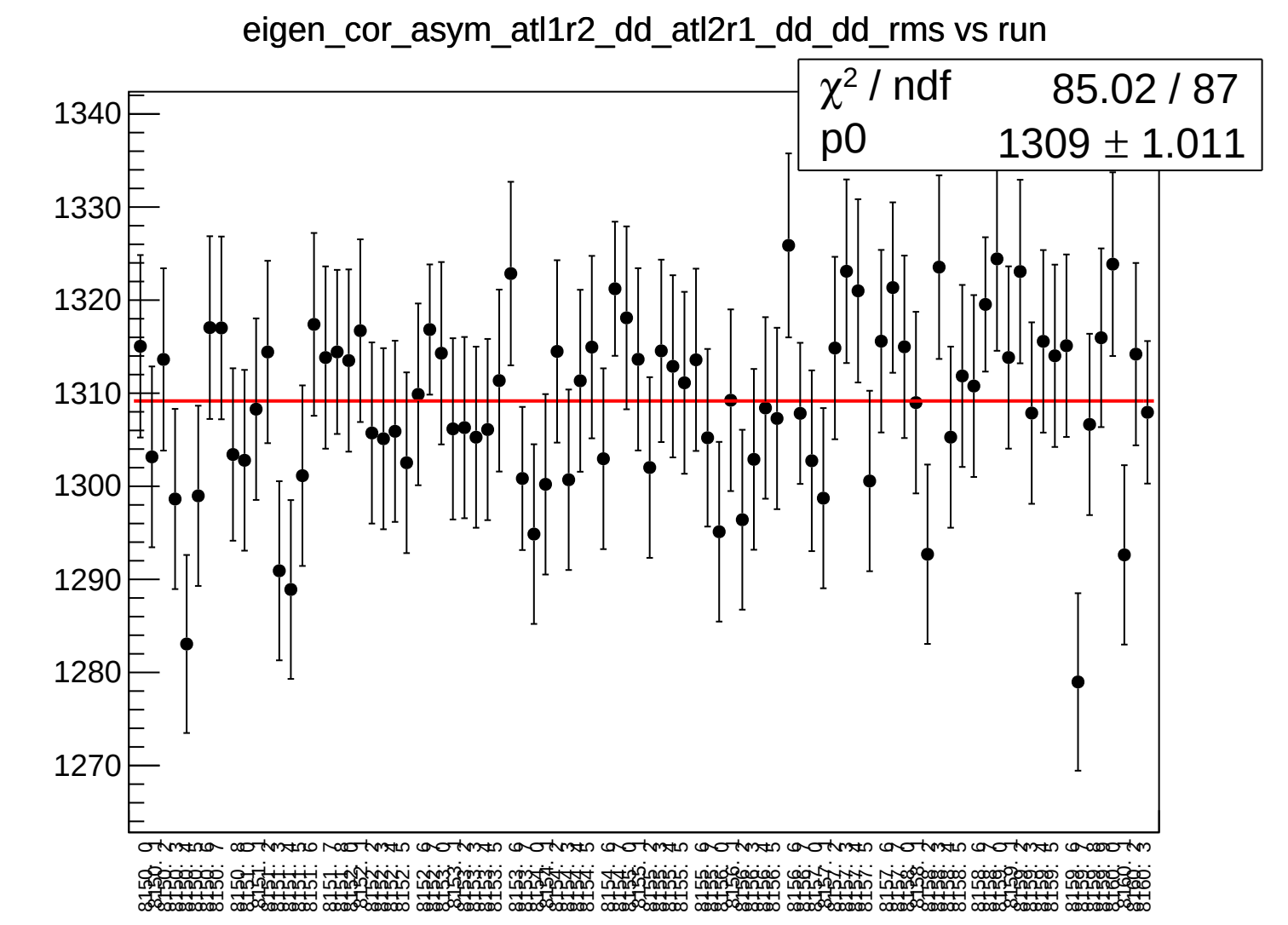

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 85.02 / 87
p0 1309 ± 1.011
1340
1330
1320
1310
1300
1290
1280
1270

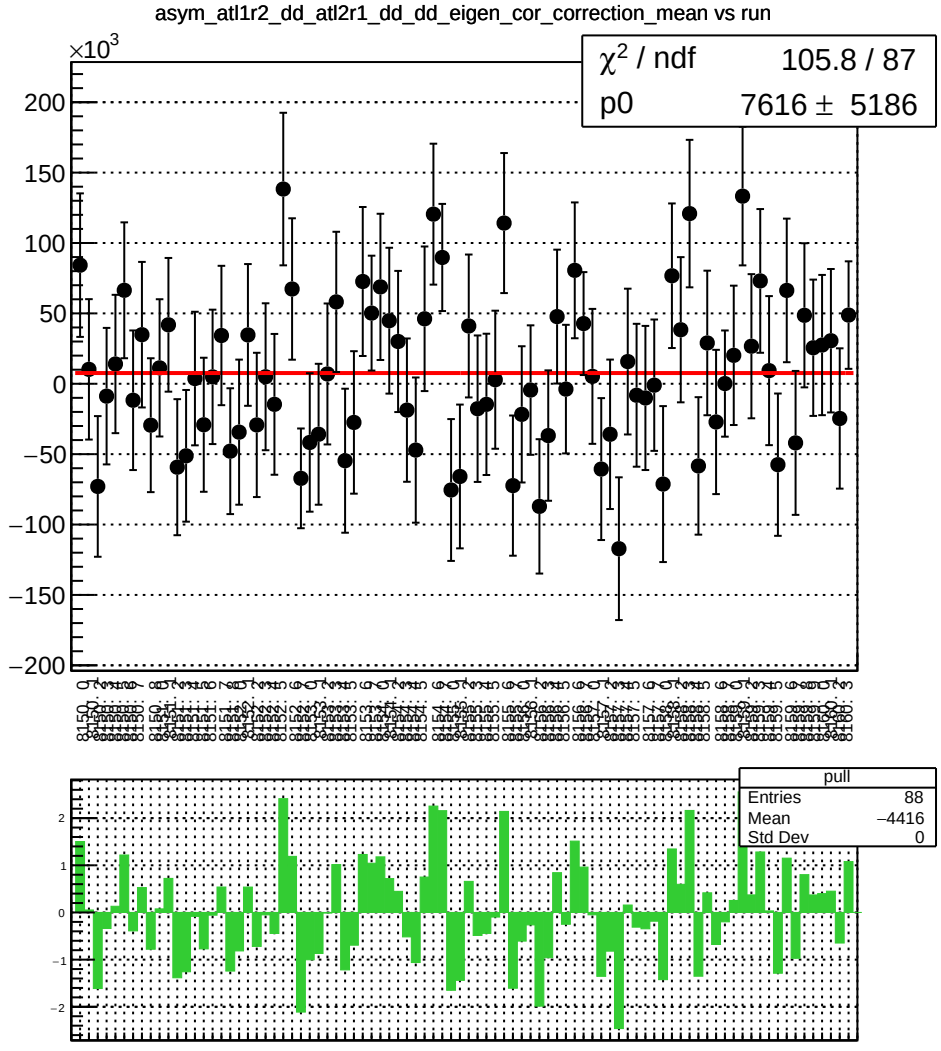

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 105.8 / 87
p0 7616 ± 5186
pull
Entries 88
Mean −4416
Std Dev 0

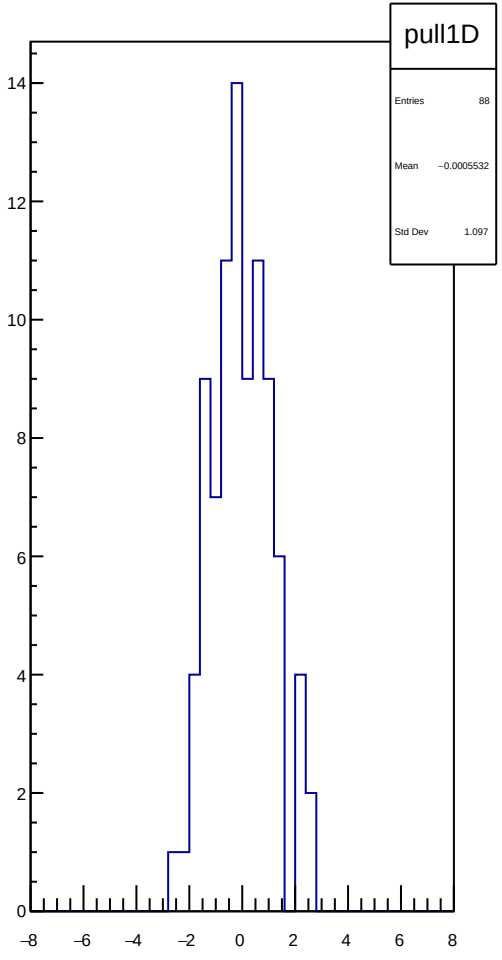

pull1D
Entries 88
Mean −0.0005532
Std Dev 1.097

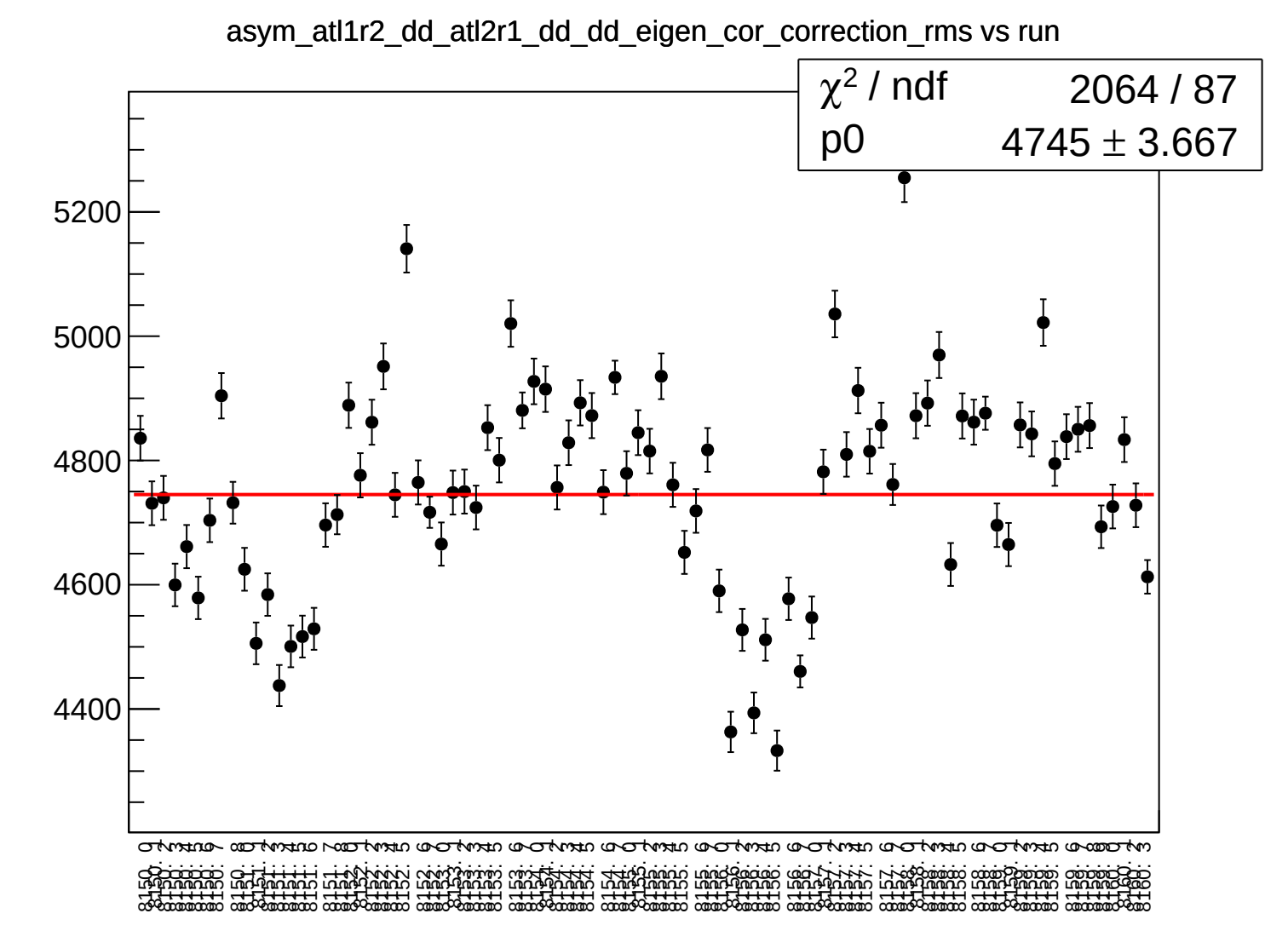

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 2064 / 87
p0 4745 ± 3.667
5200
5000
4800
4600
4400

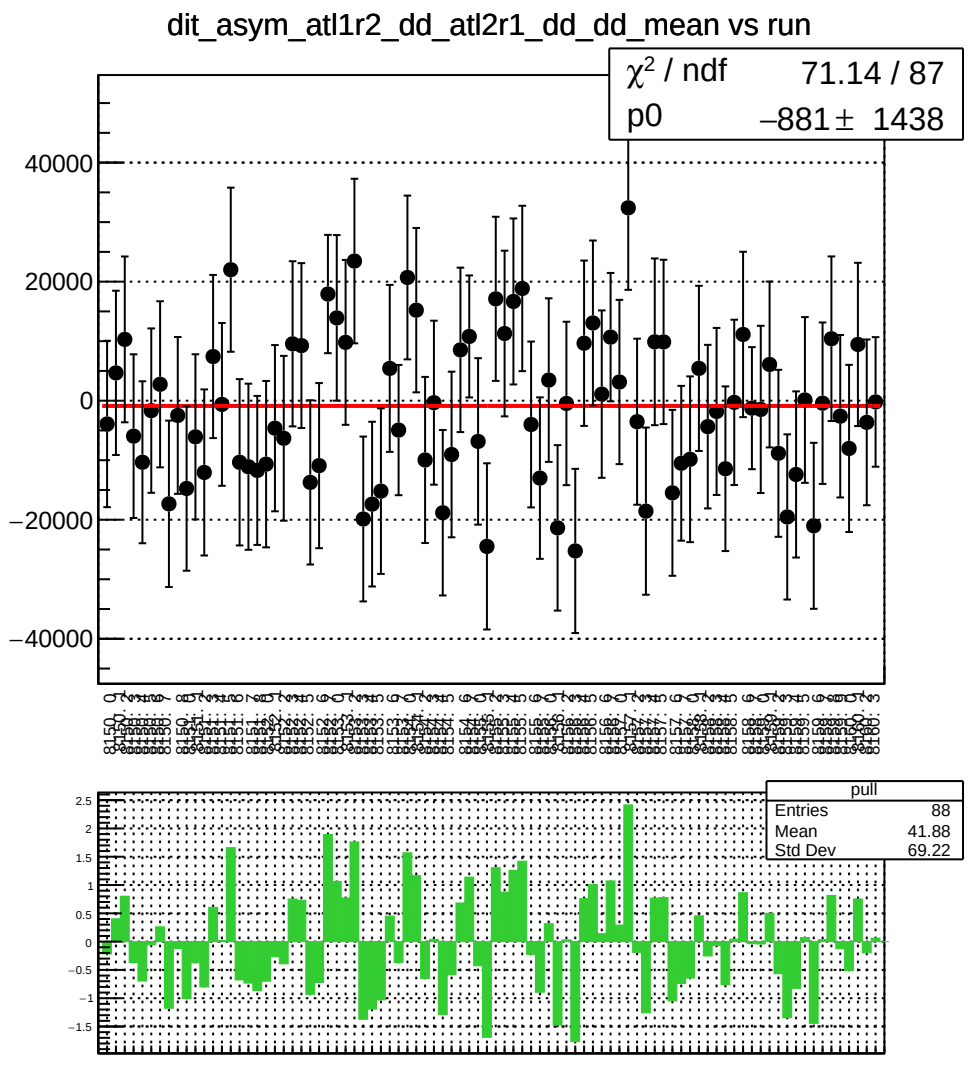

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 71.91 / 87
p0 −1129 ± 1430
pull
Entries 88
Mean 40.63
Std Dev 70.73
pull1D
Entries 88
Mean −0.01396
Std Dev 0.9038

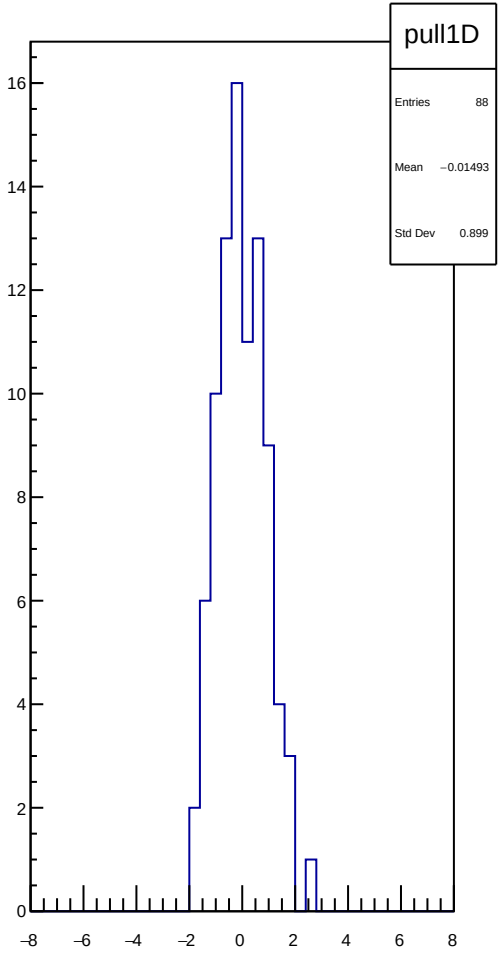

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 85.02 / 87
p0 1309 ± 1.011
1340
1330
1320
1310
1300
1290
1280
1270

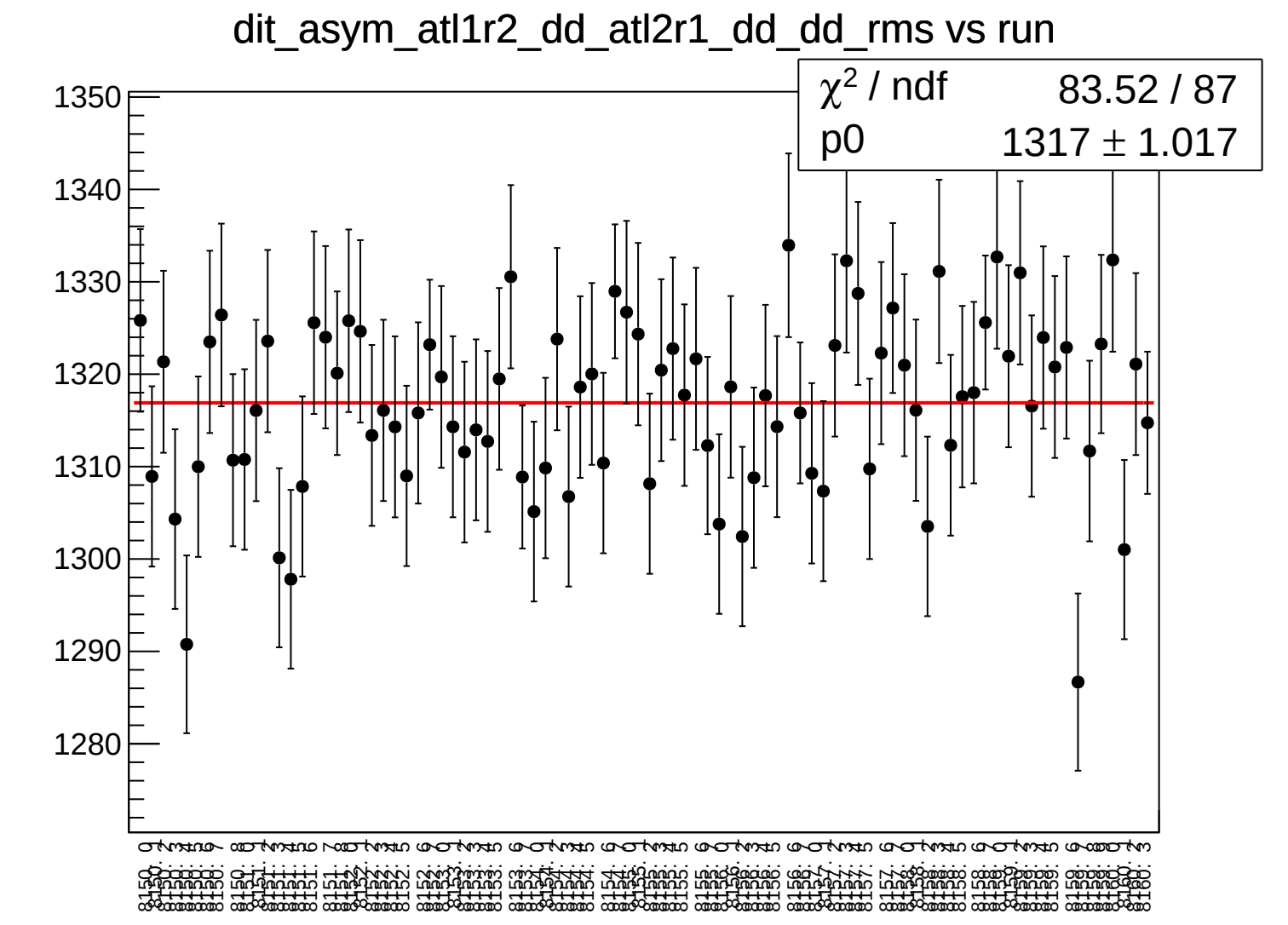

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 105.8 / 87
p0 7616 ± 5186
pull
Entries 88
Mean −4416
Std Dev 0

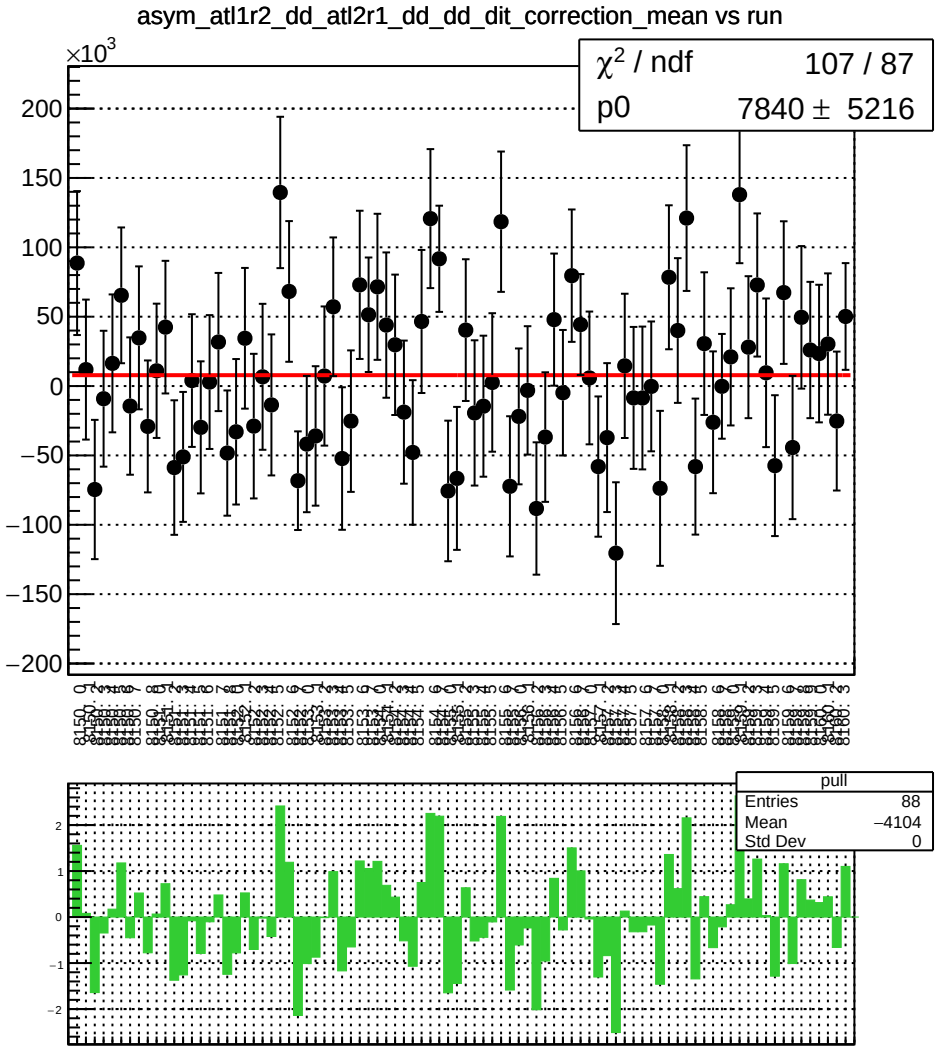

pull1D
Entries 88
Mean −0.0005532
Std Dev 1.097

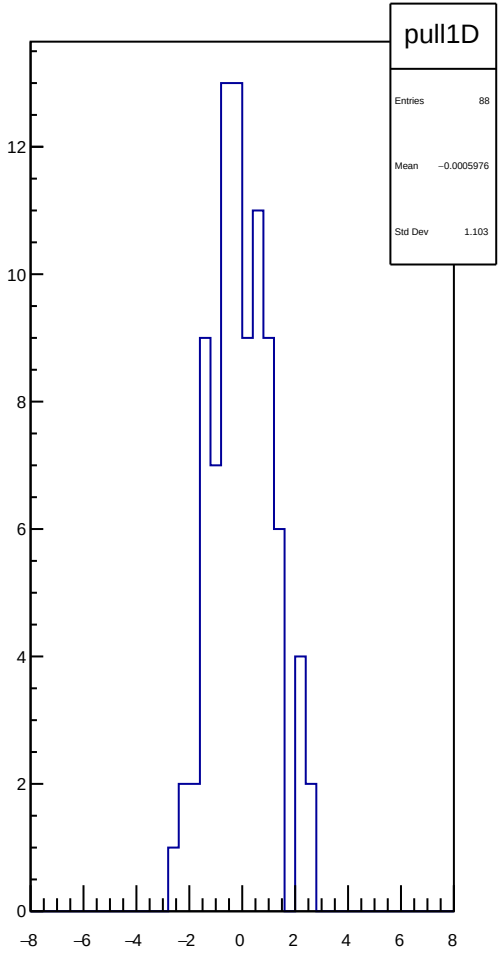

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2064 / 87
p0 4745 ± 3.667
5200
5000
4800
4600
4400

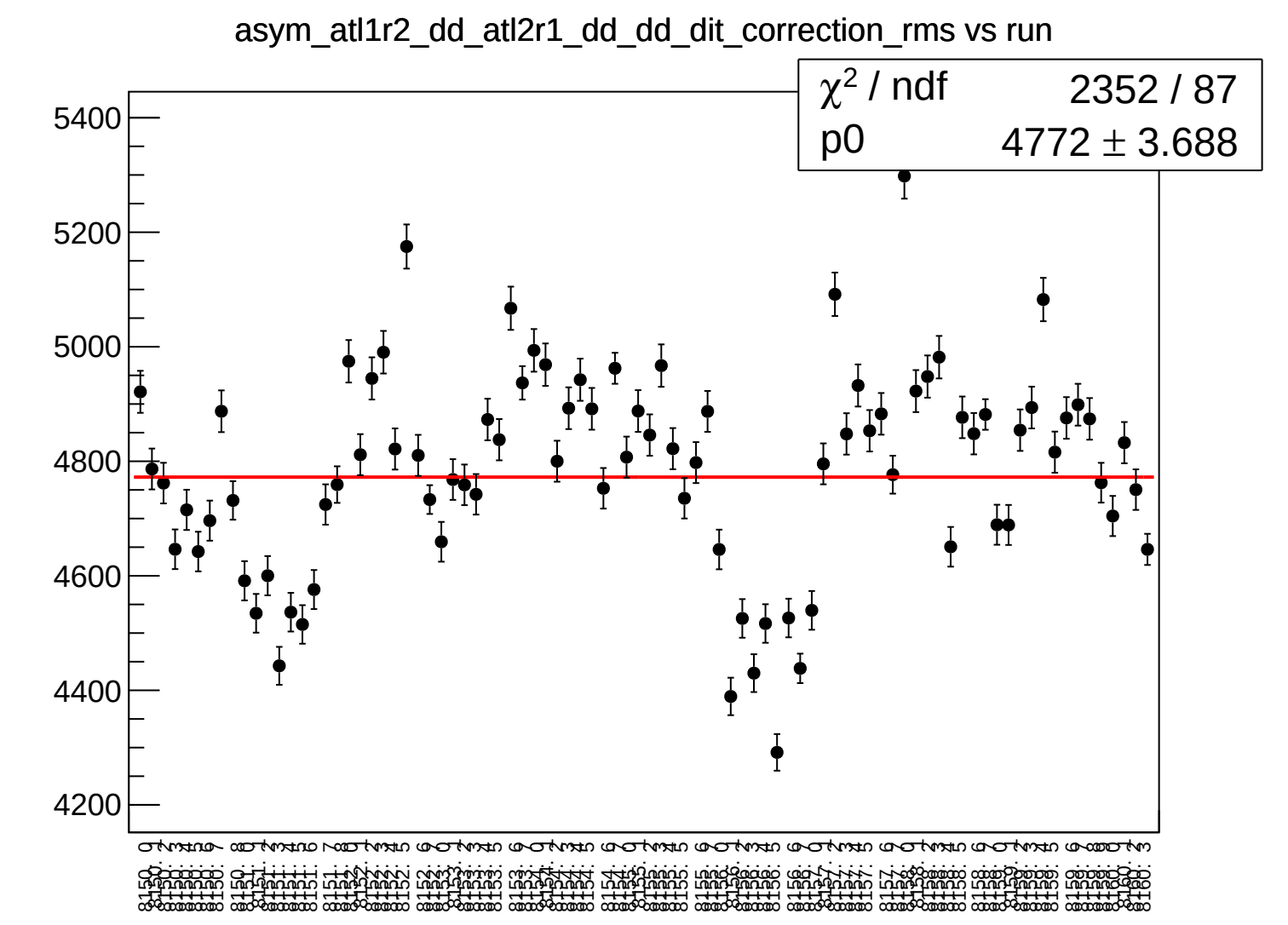

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 71.14 / 87
p0 −881 ± 1438
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 41.88
Std Dev 69.22
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

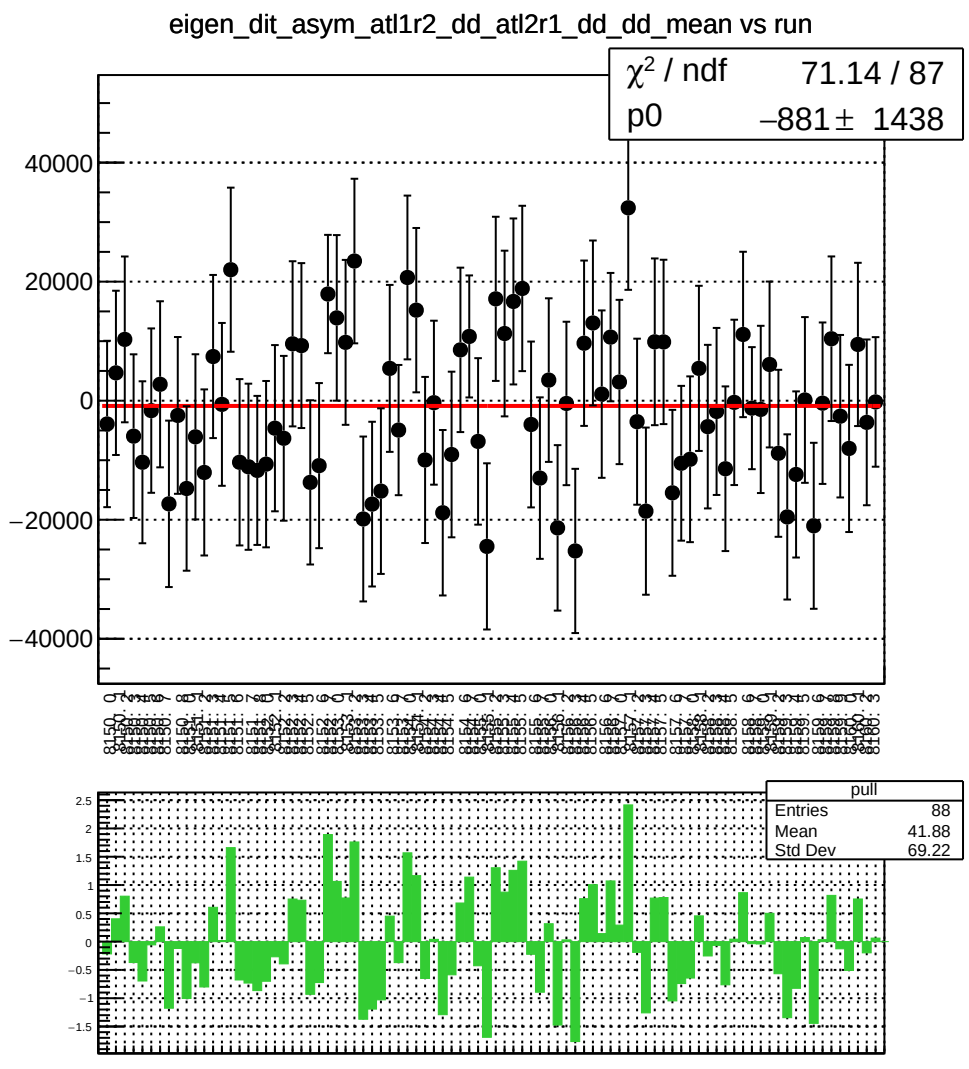

pull1D
Entries 88
Mean −0.01493
Std Dev 0.899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

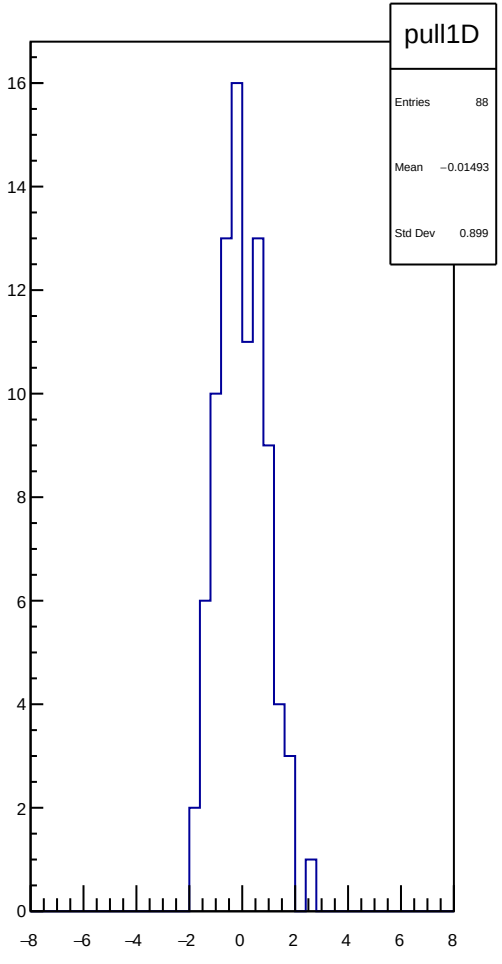

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 83.52 / 87
p0 1317 ± 1.017
1350
1340
1330
1320
1310
1300
1290
1280

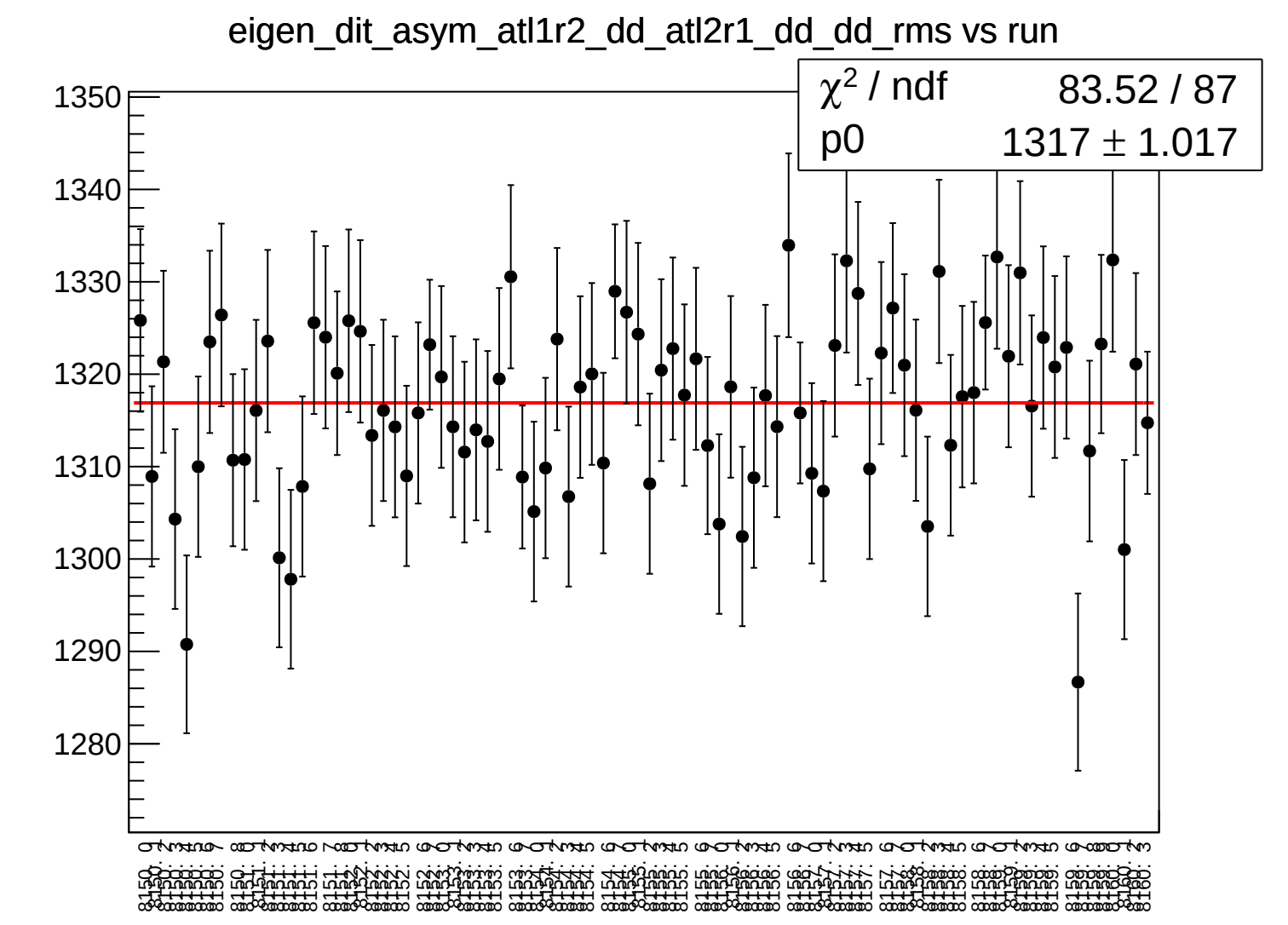

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 87
p0 7840 ± 5216
pull
Entries 88
Mean −4104
Std Dev 0

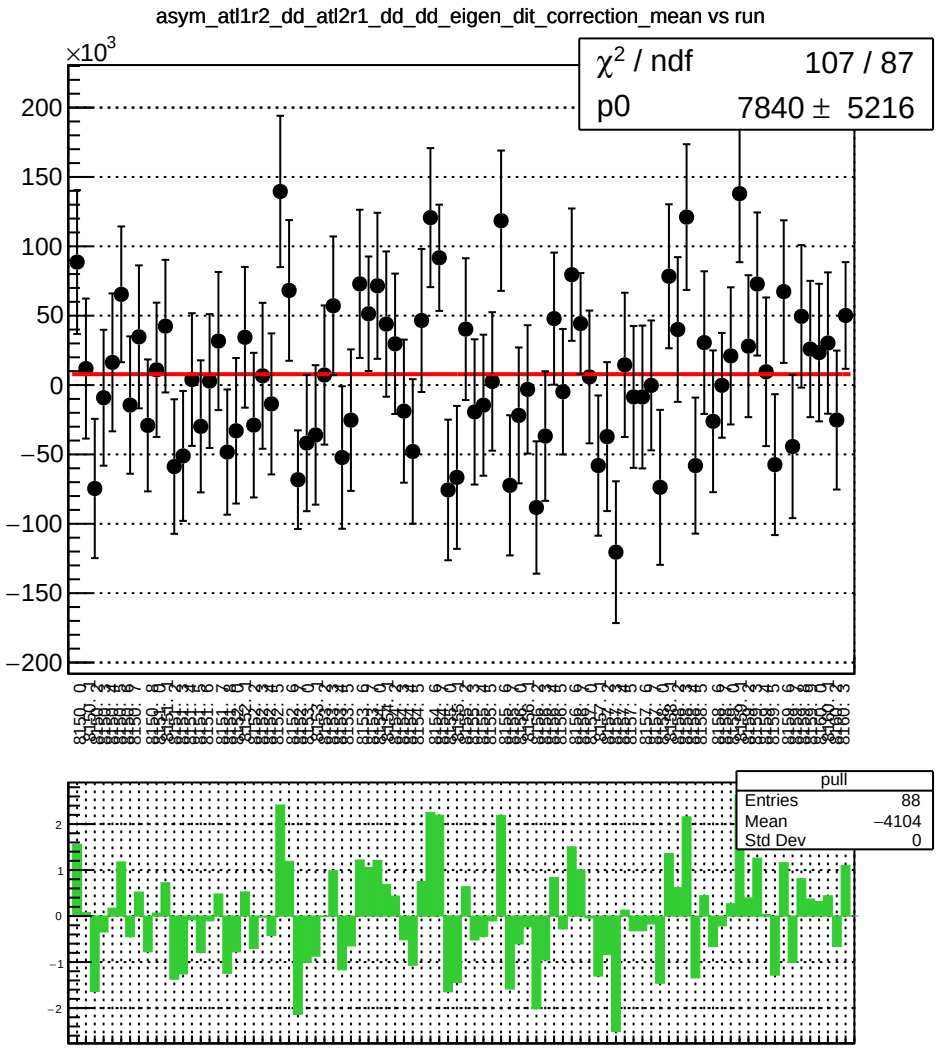

pull1D
Entries 88
Mean −0.0005976
Std Dev 1.103

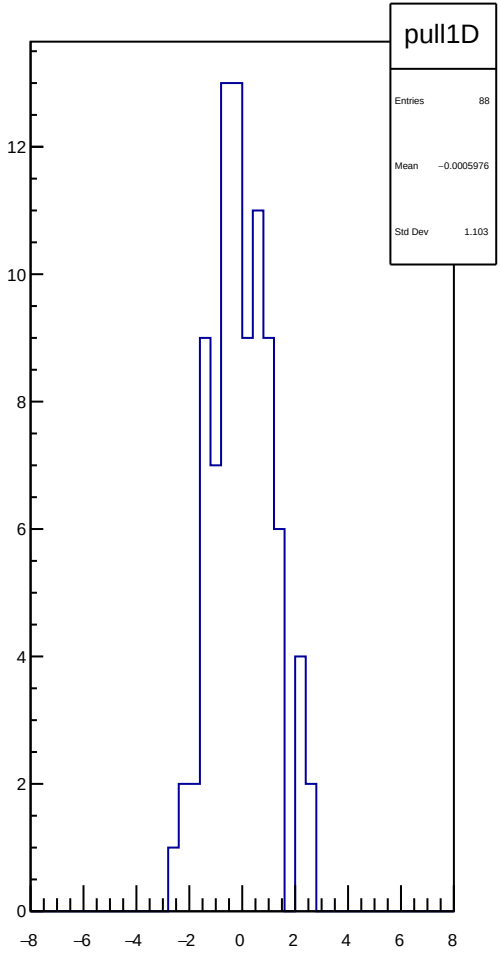

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 2352 / 87
p0 4772 ± 3.688
5400
5200
5000
4800
4600
4400
4200

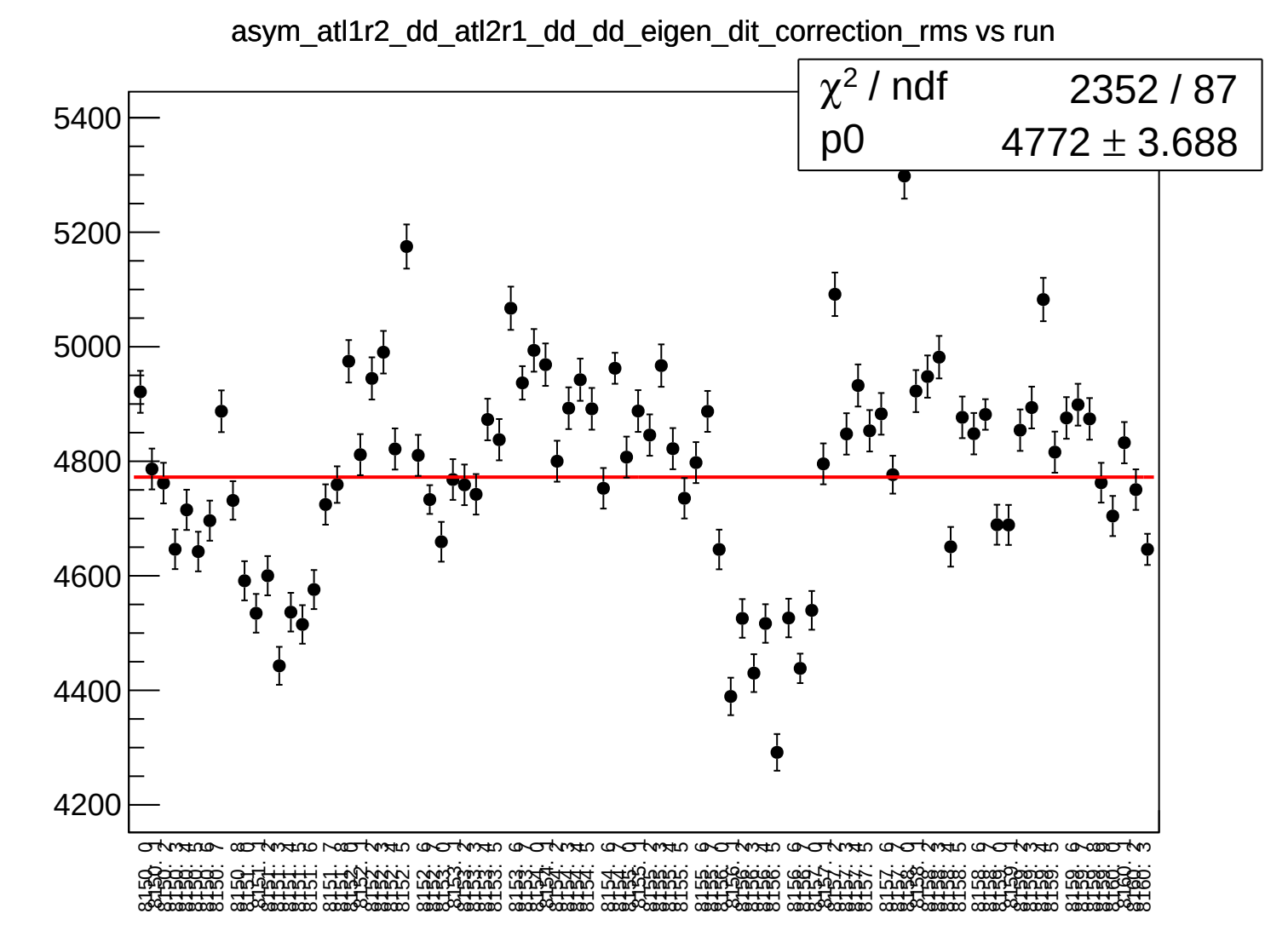

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 71.14 / 87
p0 −881 ± 1438
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 41.88
Std Dev 69.22
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

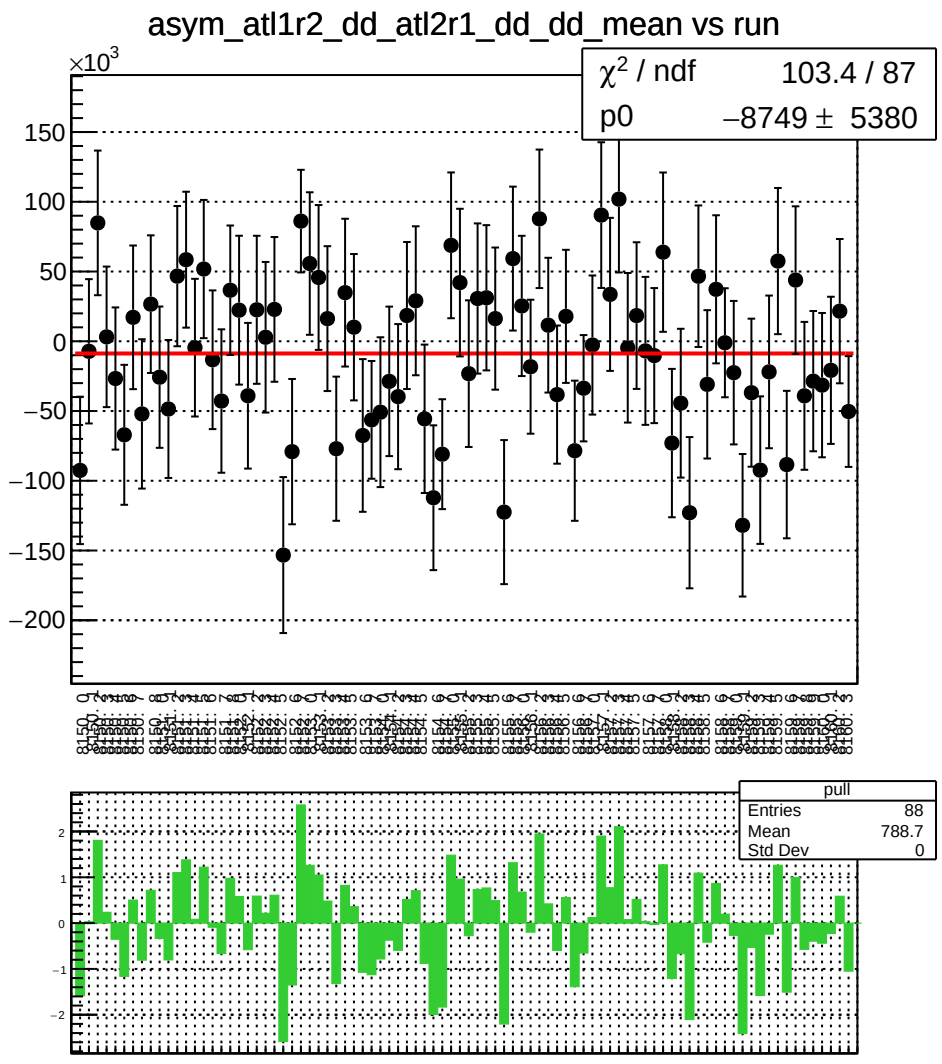

pull1D
Entries 88
Mean −0.01493
Std Dev 0.899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

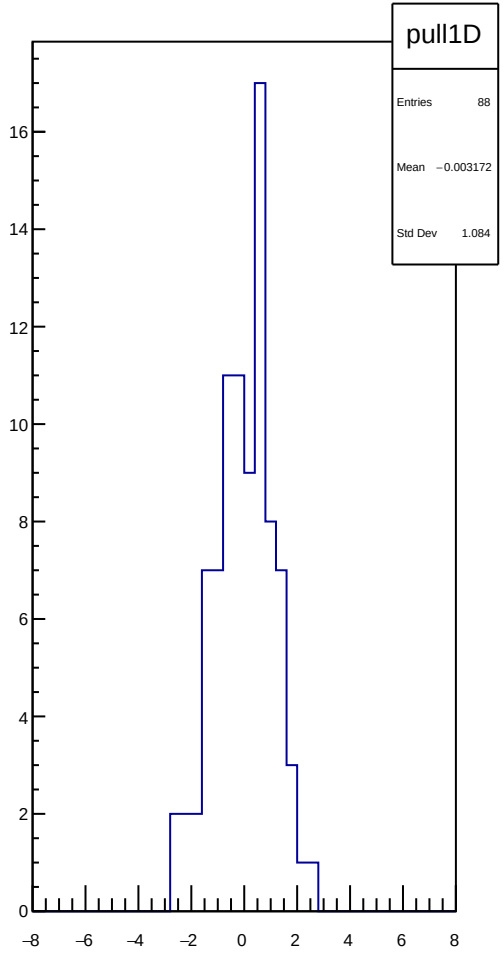

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 83.52 / 87
p0 1317 ± 1.017
1350
1340
1330
1320
1310
1300
1290
1280

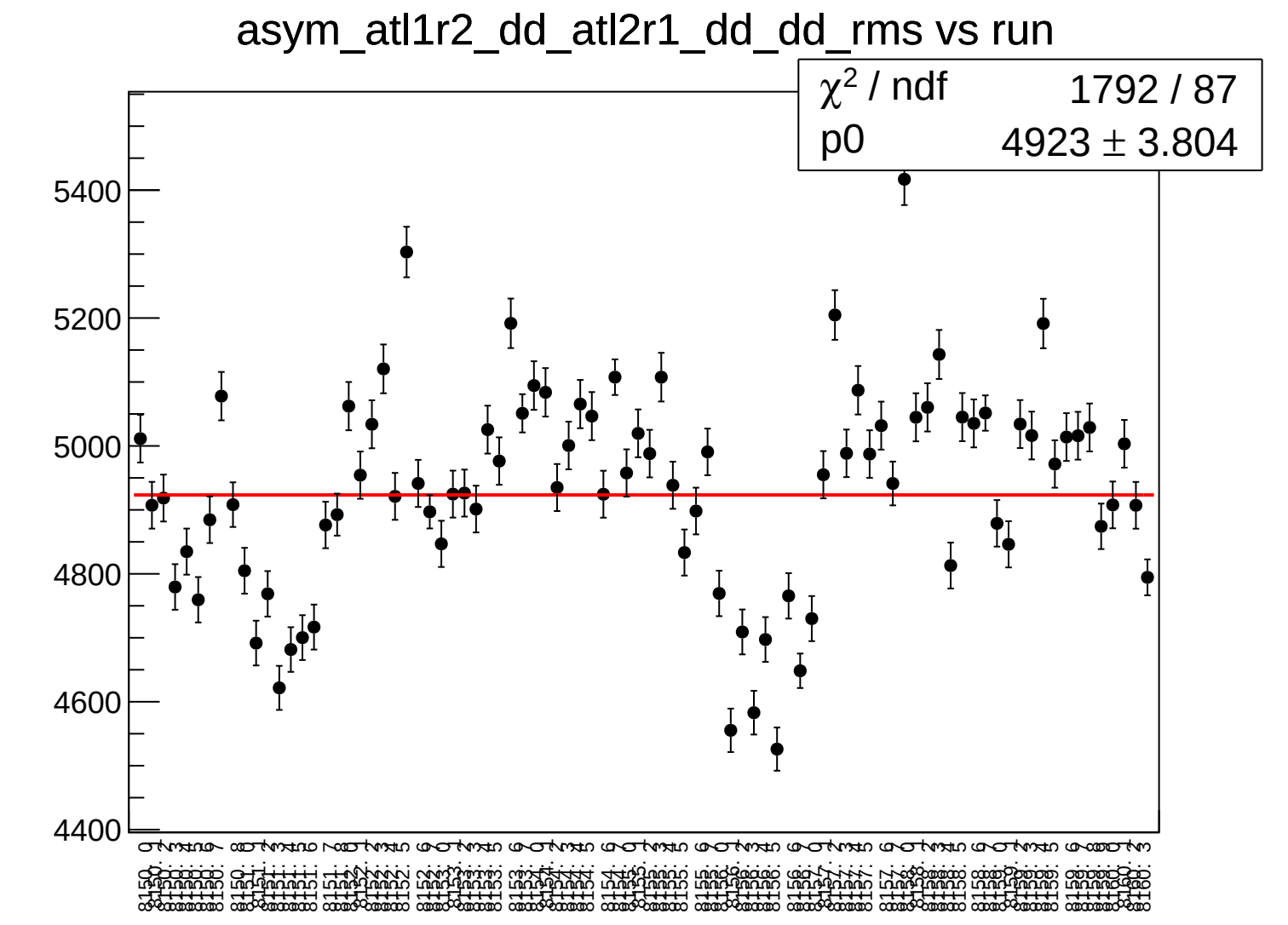

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 87
p0 7840 ± 5216
pull
Entries 88
Mean −4104
Std Dev 0

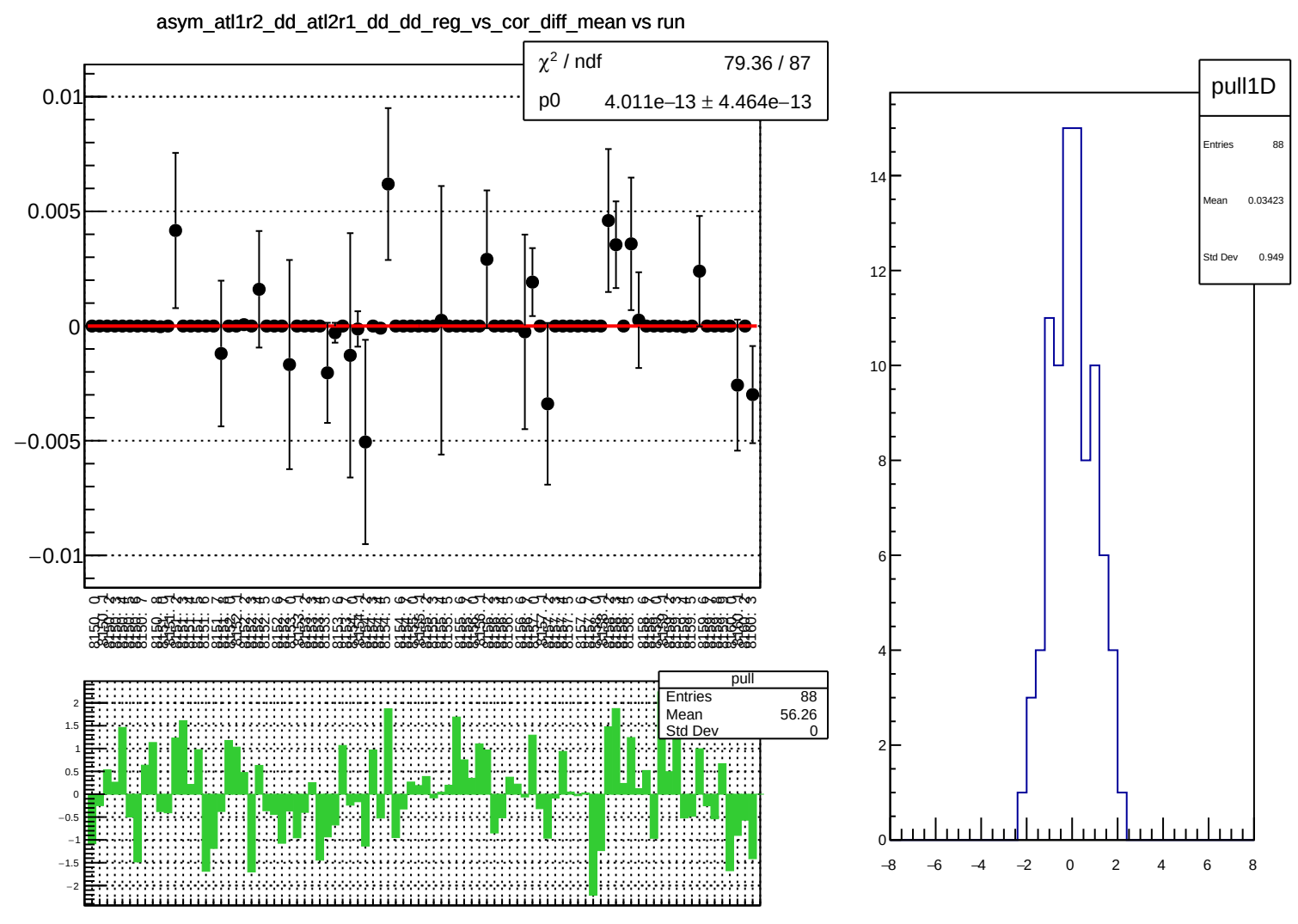

pull1D
Entries 88
Mean −0.0005976
Std Dev 1.103

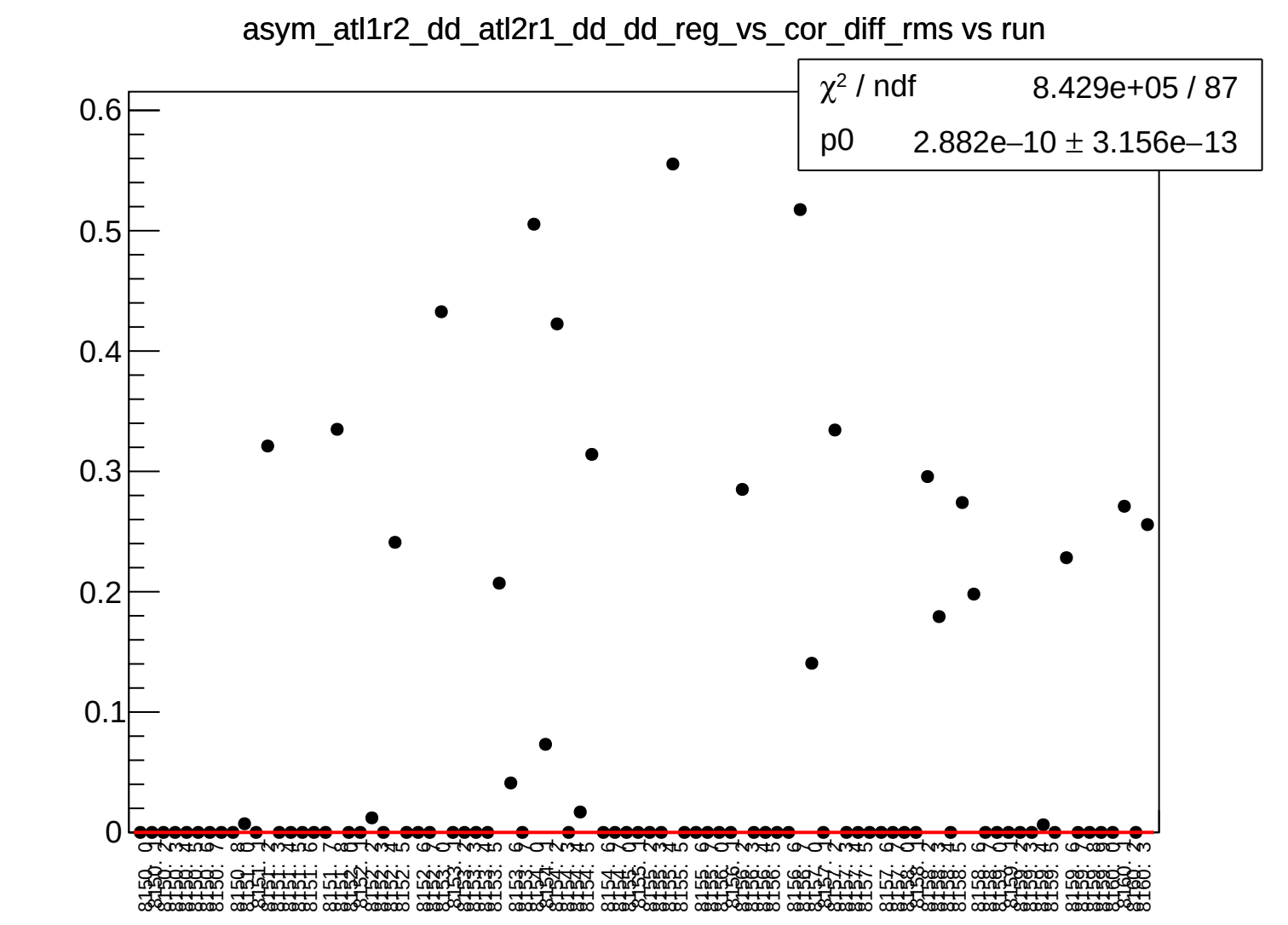

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2352 / 87
p0 4772 ± 3.688
5400
5200
5000
4800
4600
4400
4200

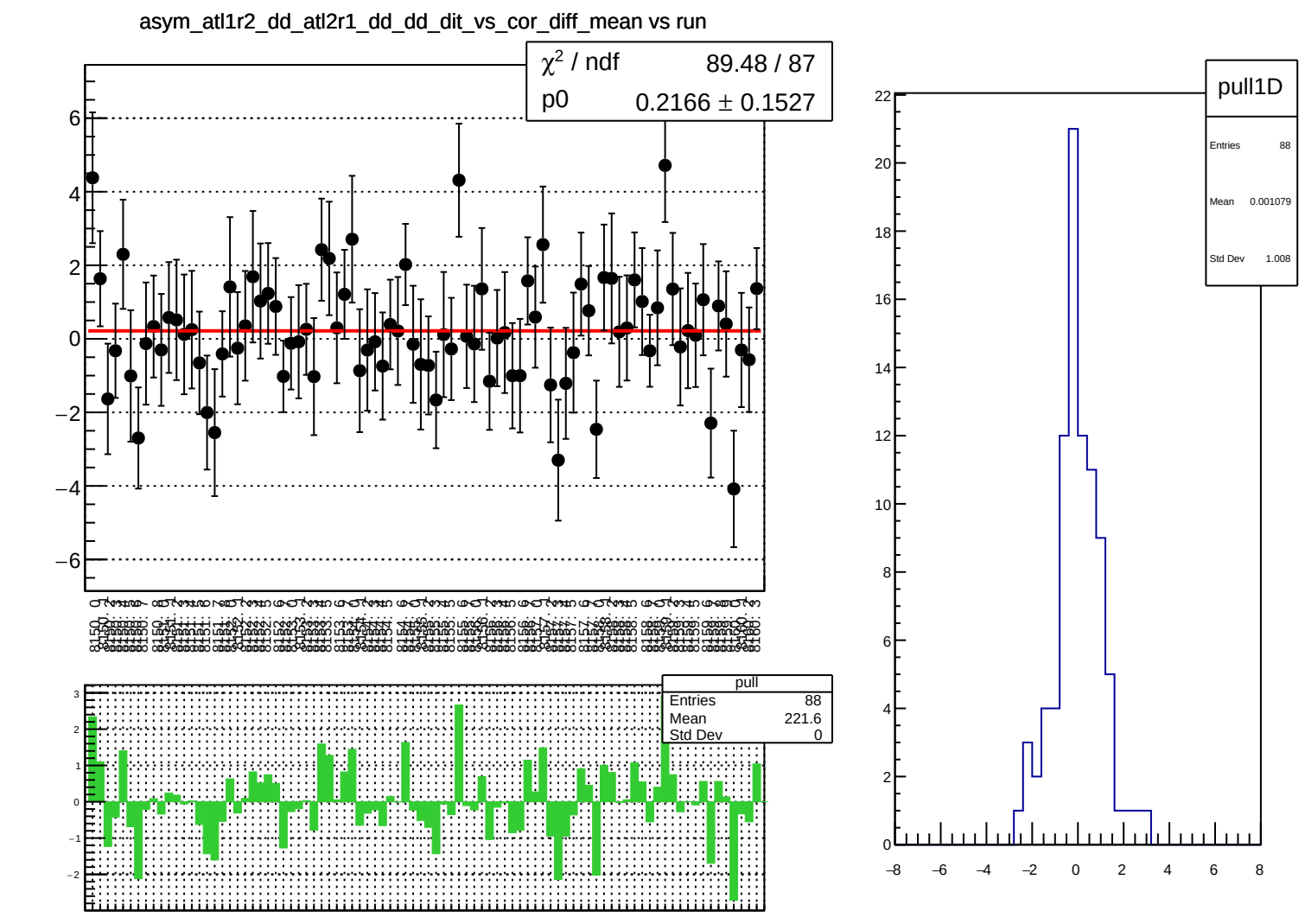

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 103.4 / 87
p0 −8749 ± 5380
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 788.7
Std Dev 0
2
1
0
−1
−2

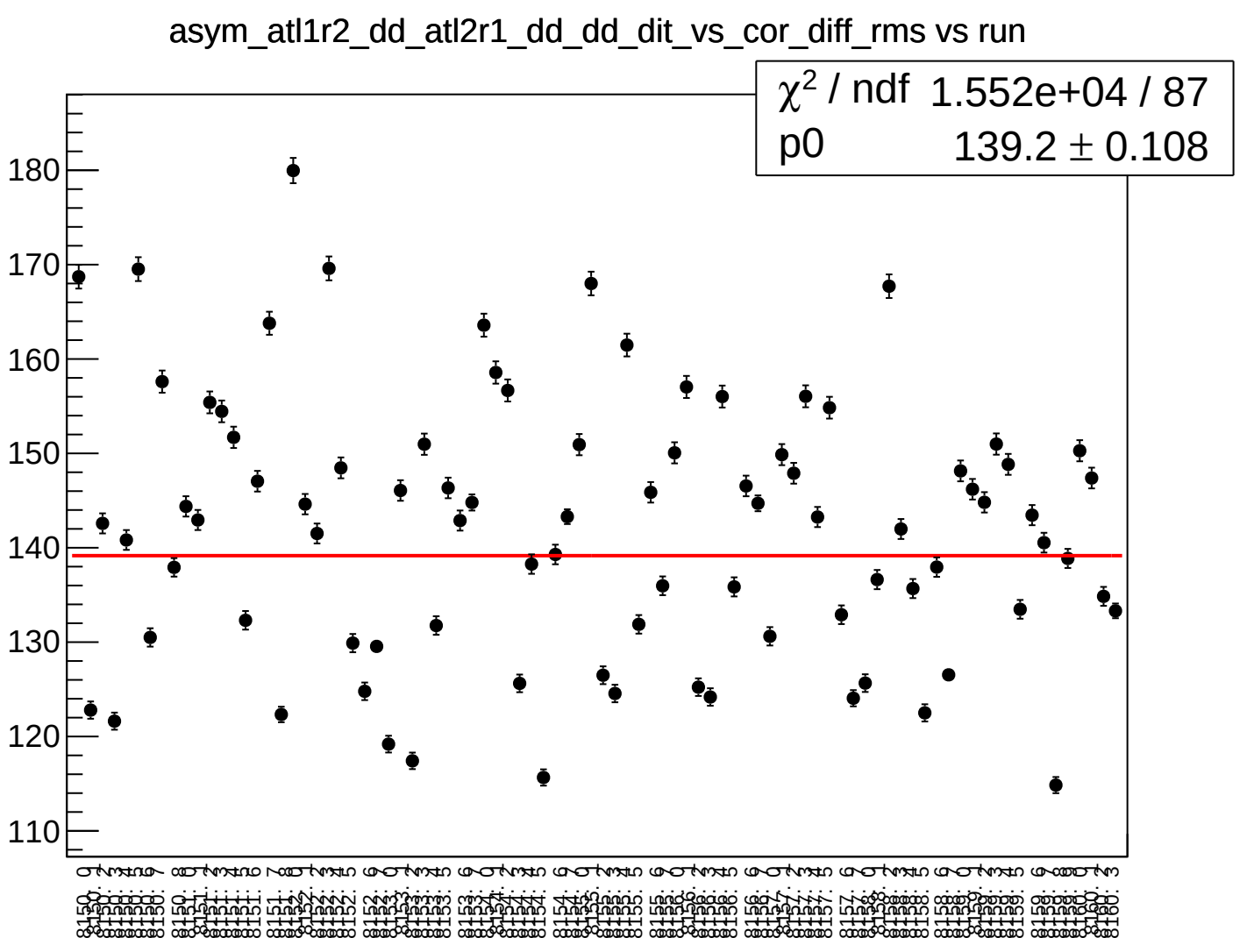

pull1D
Entries 88
Mean −0.003172
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

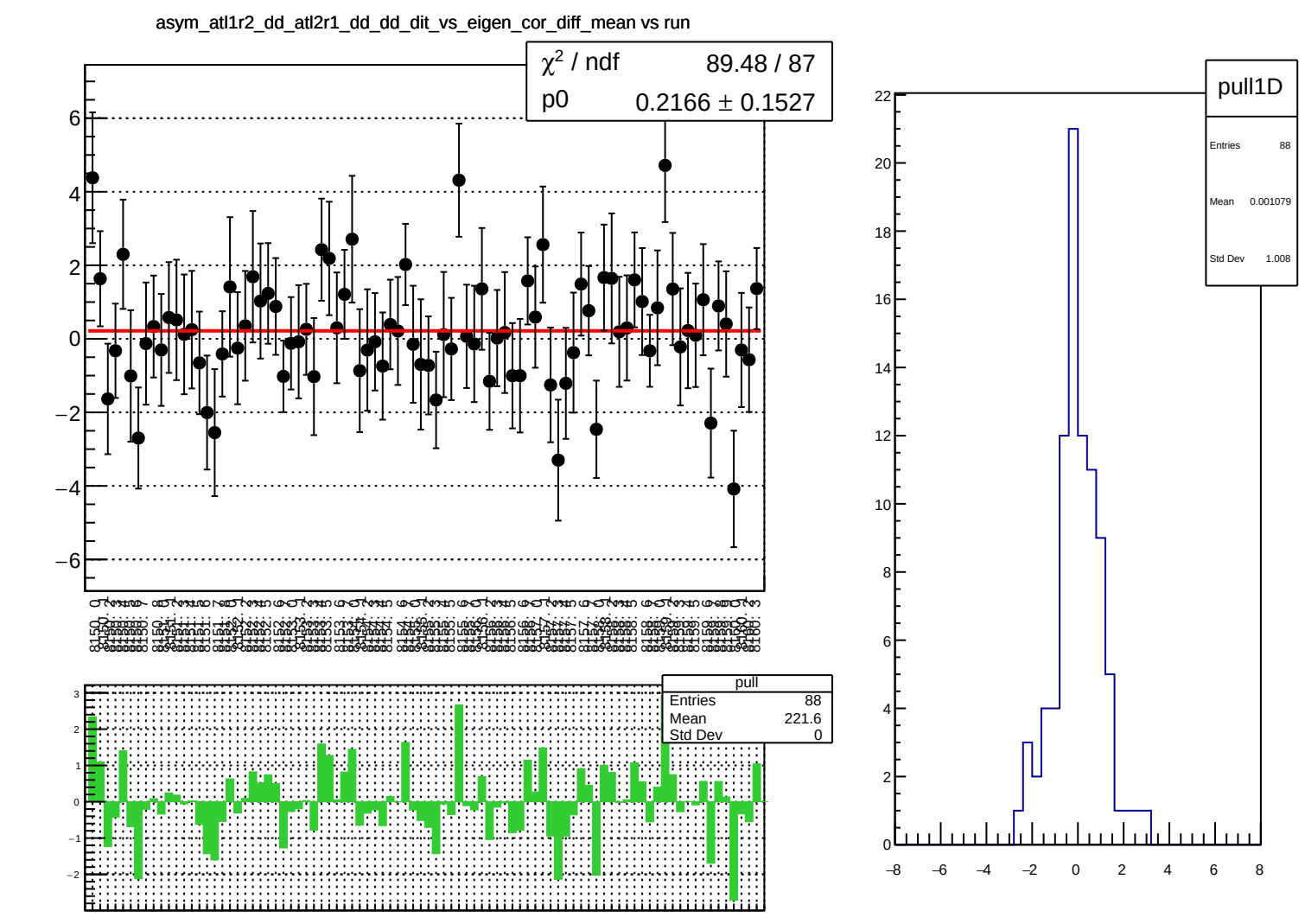

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1792 / 87
p0 4923 ± 3.804
5400
5200
5000
4800
4600
4400

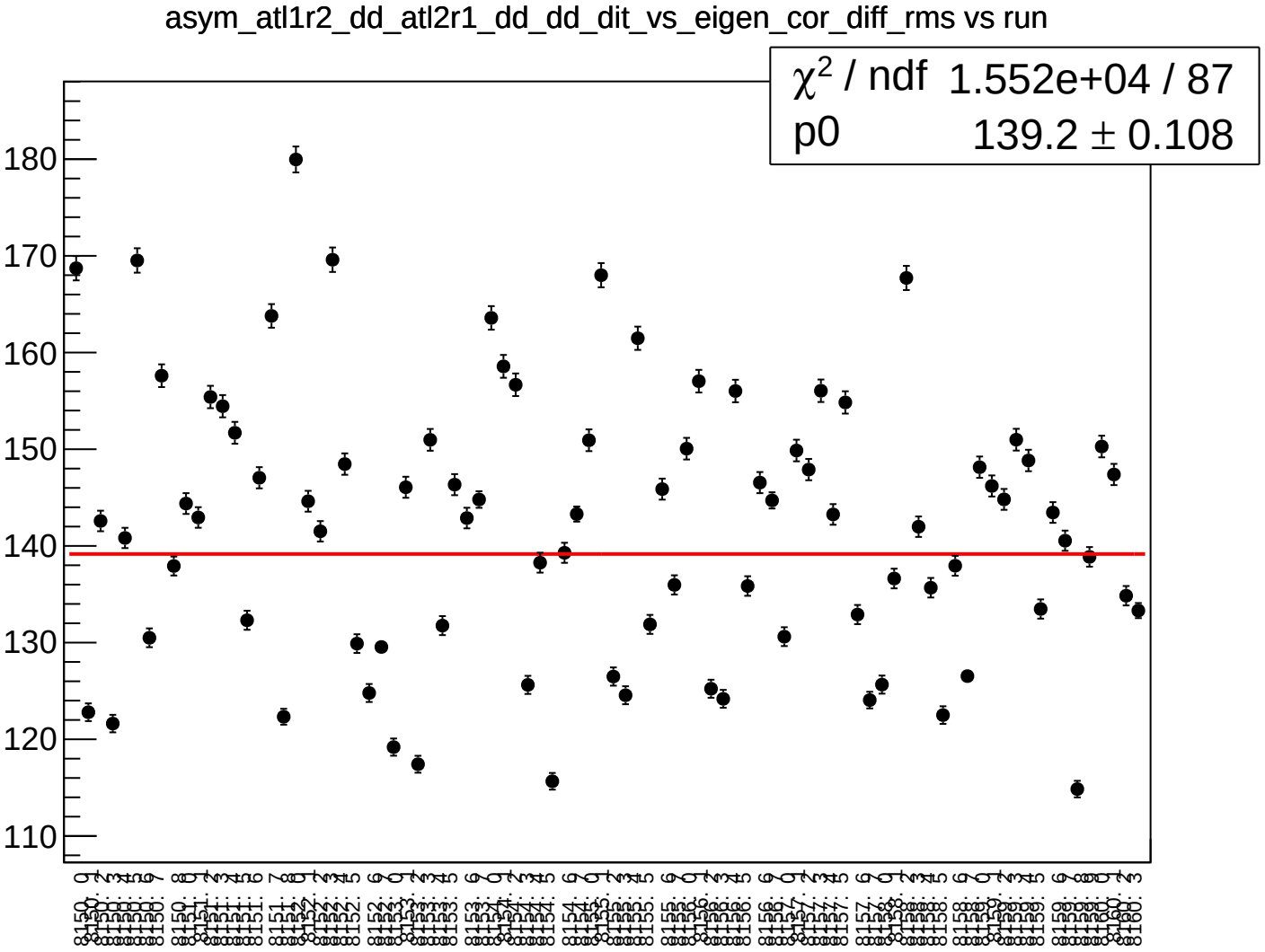

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.36 / 87
p0 4.011e−13 ± 4.464e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 56.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.03423
Std Dev 0.949
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

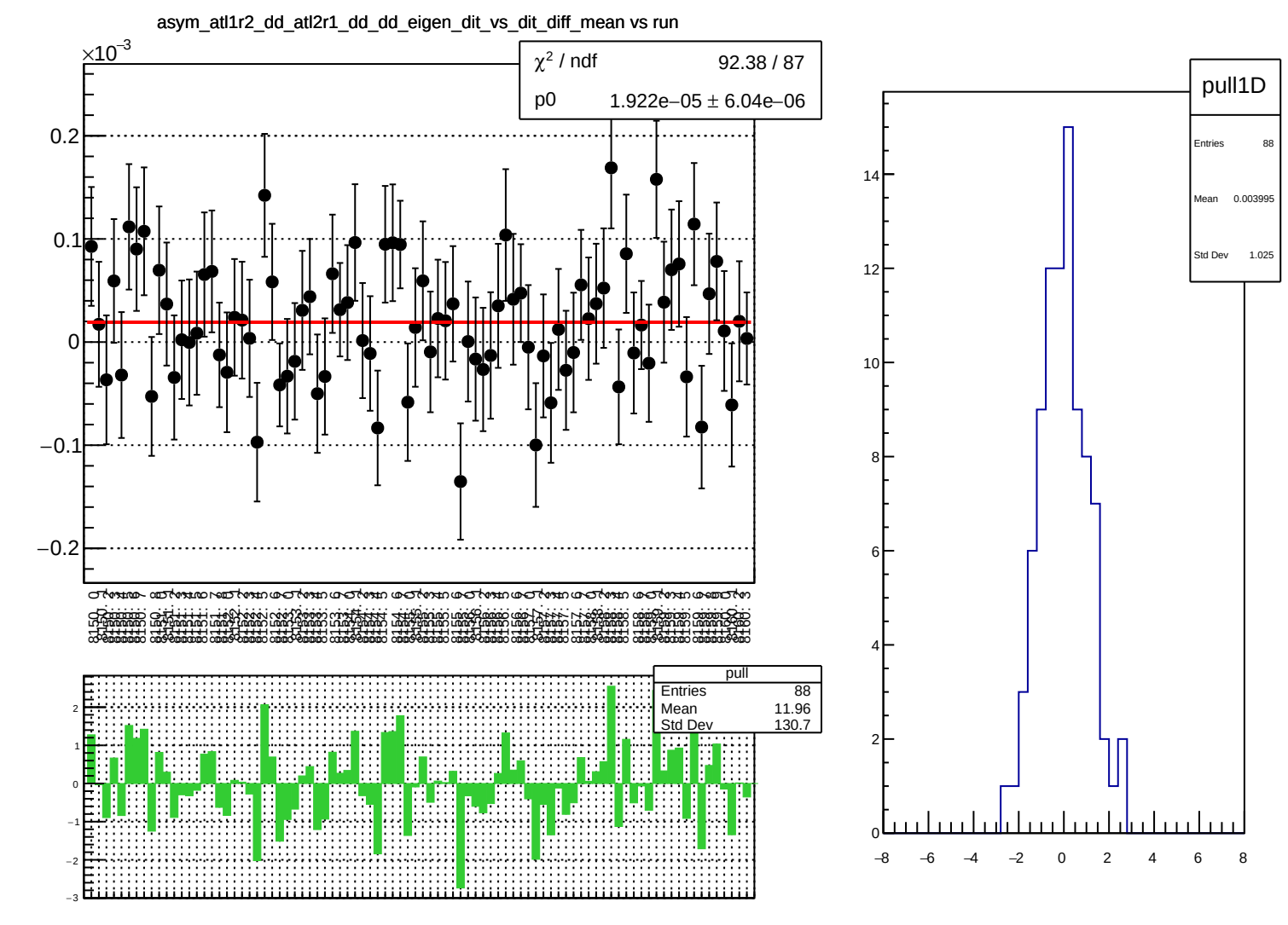

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.429e+05 / 87
p0 2.882e−10 ± 3.156e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

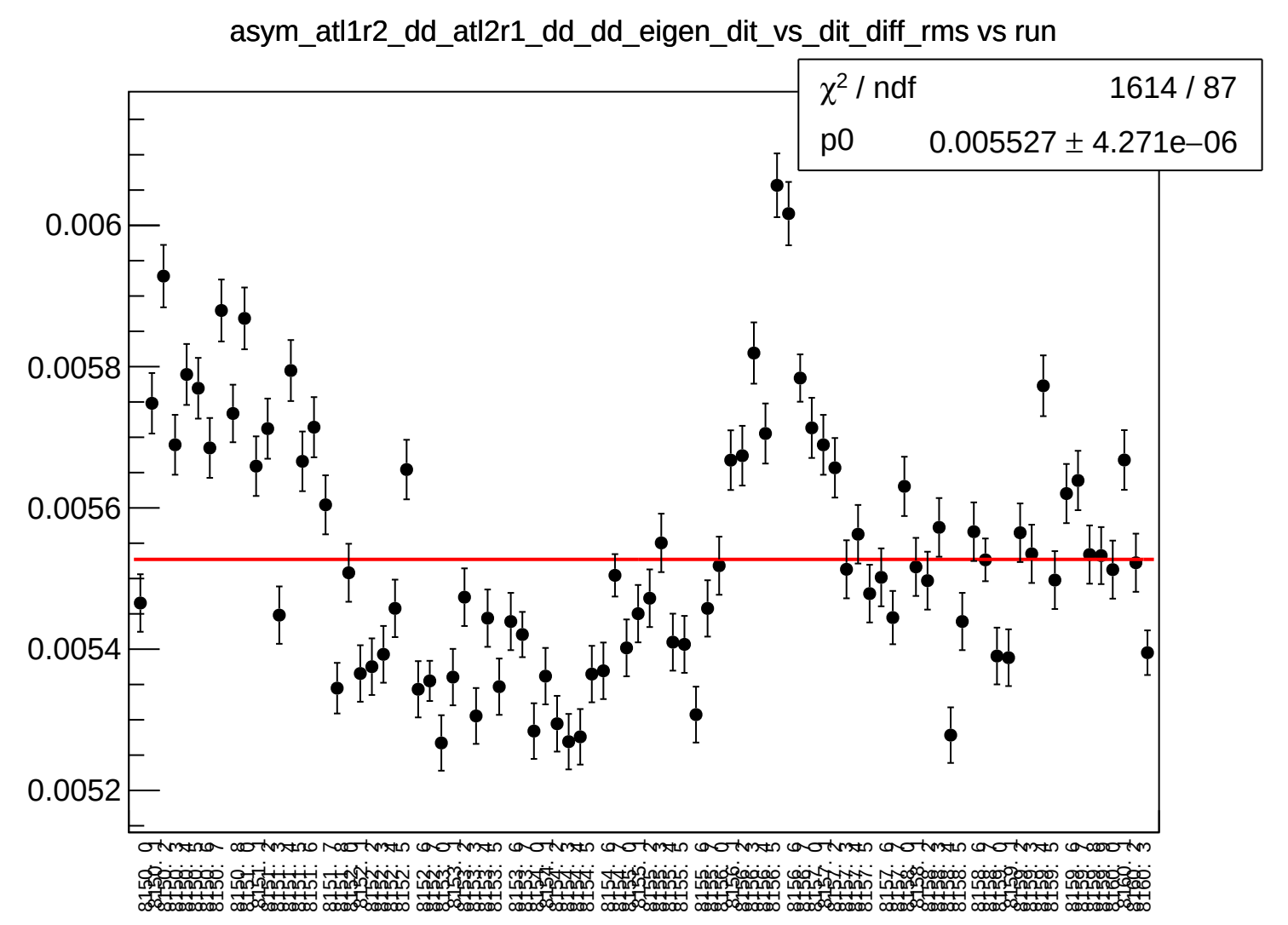

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.48 / 87
p0 0.2166 ± 0.1527
pull
Entries 88
Mean 221.6
Std Dev 0
pull1D
Entries 88
Mean 0.001079
Std Dev 1.008

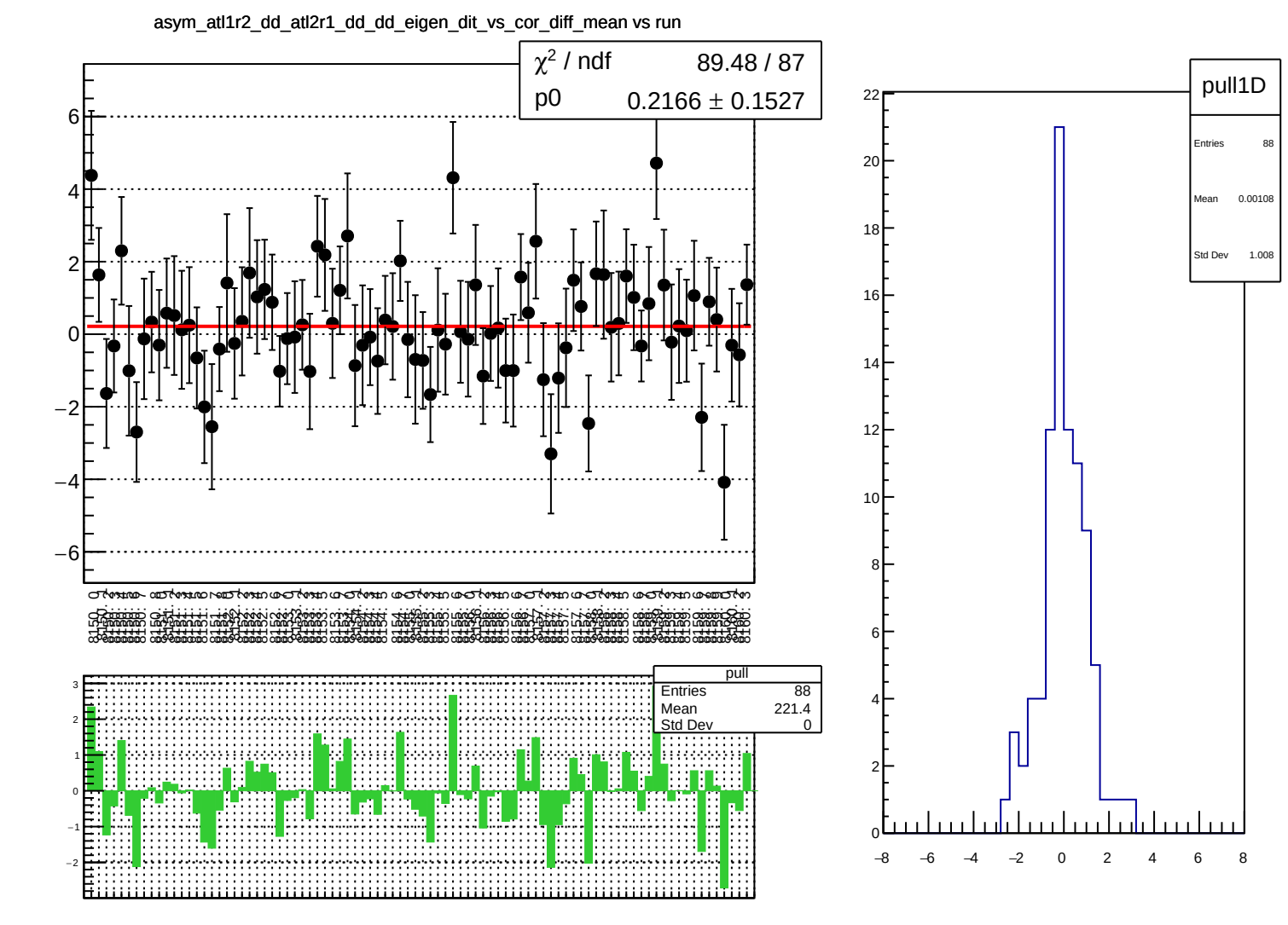

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.552e+04 / 87
p0 139.2 ± 0.108
180
170
160
150
140
130
120
110


asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.48 / 87
p0 0.2166 ± 0.1527
pull
Entries 88
Mean 221.6
Std Dev 0
pull1D
Entries 88
Mean 0.001079
Std Dev 1.008

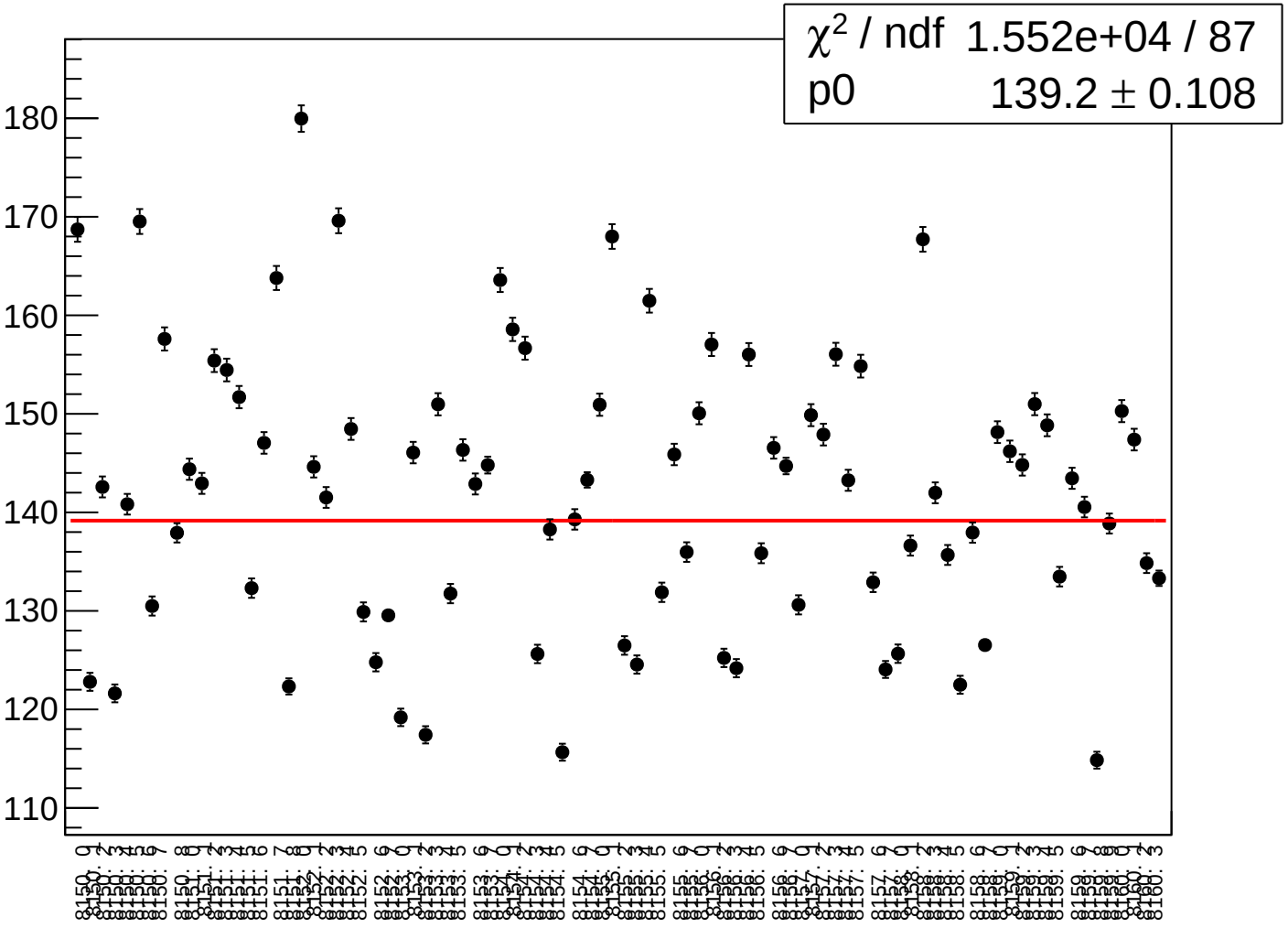

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.552e+04 / 87
p0 139.2 ± 0.108
180
170
160
150
140
130
120
110

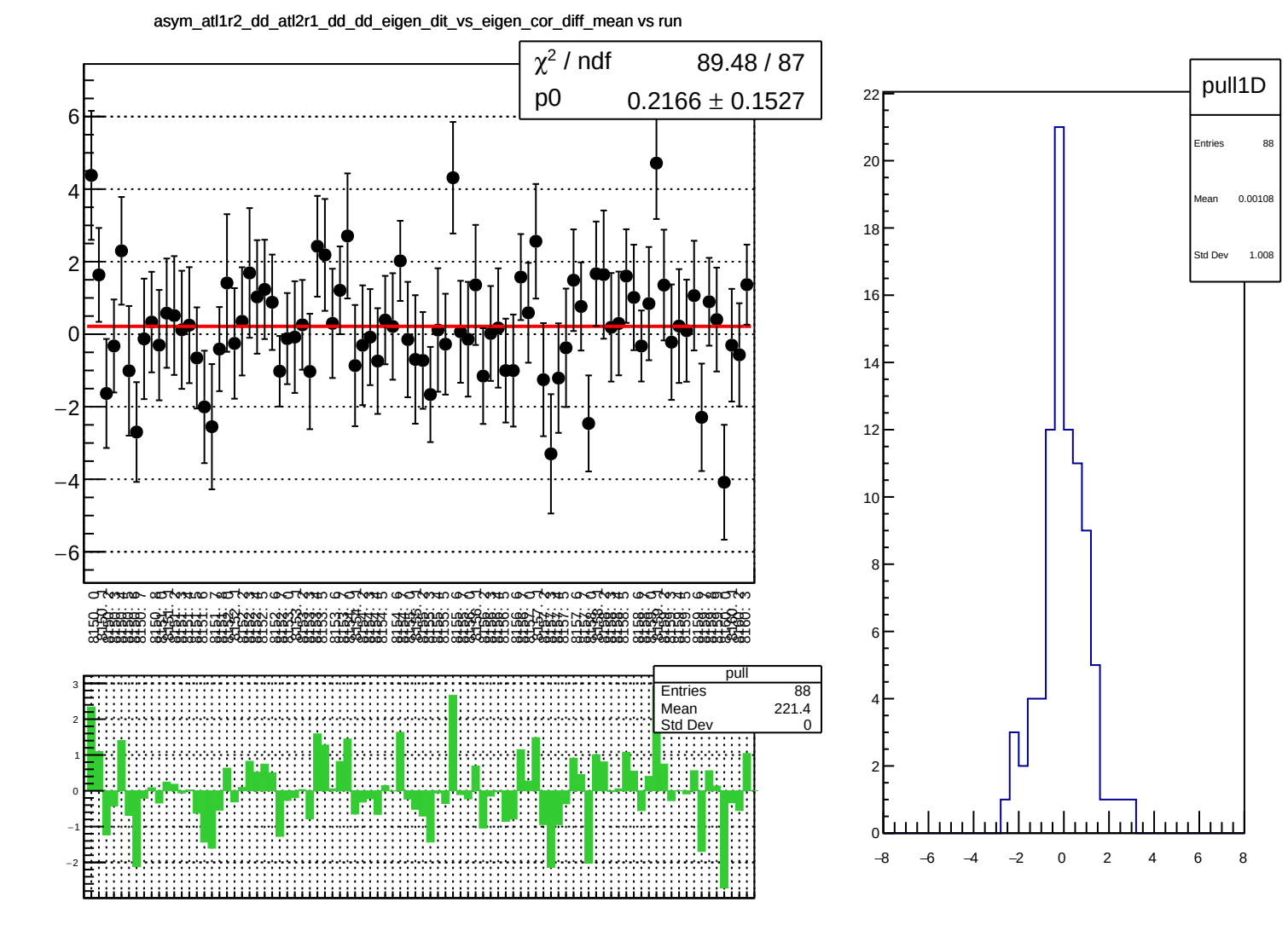

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.38 / 87
p0 1.922e−05 ± 6.04e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean 11.96
Std Dev 130.7
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.003995
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

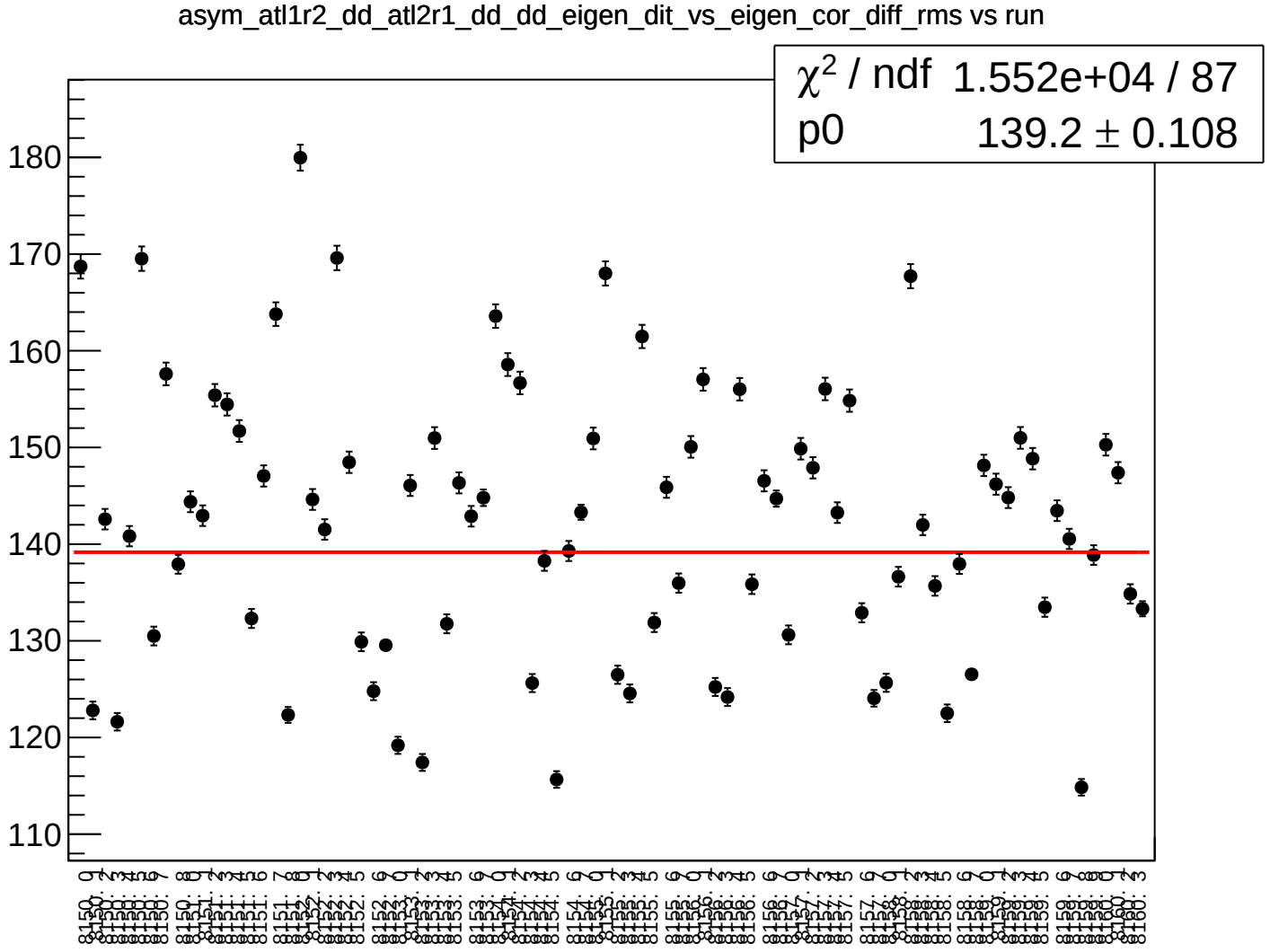

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1614 / 87
p0 0.005527 ± 4.271e−06
0.006
0.0058
0.0056
0.0054
0.0052

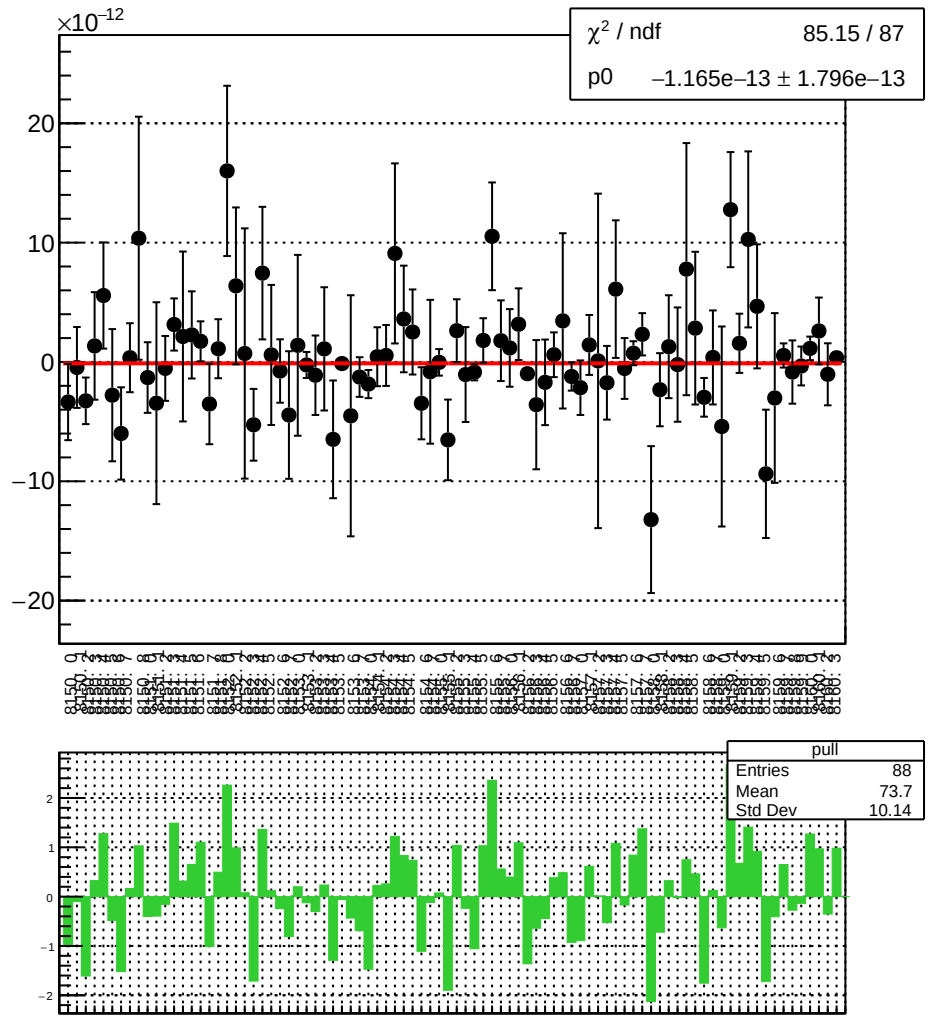

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.48 / 87
p0 0.2166 ± 0.1527
pull
Entries 88
Mean 221.4
Std Dev 0
pull1D
Entries 88
Mean 0.00108
Std Dev 1.008

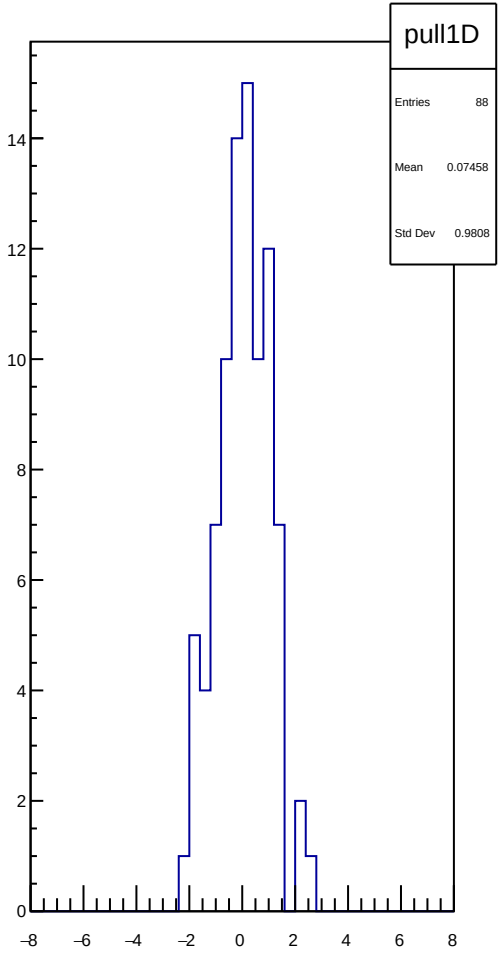
asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run

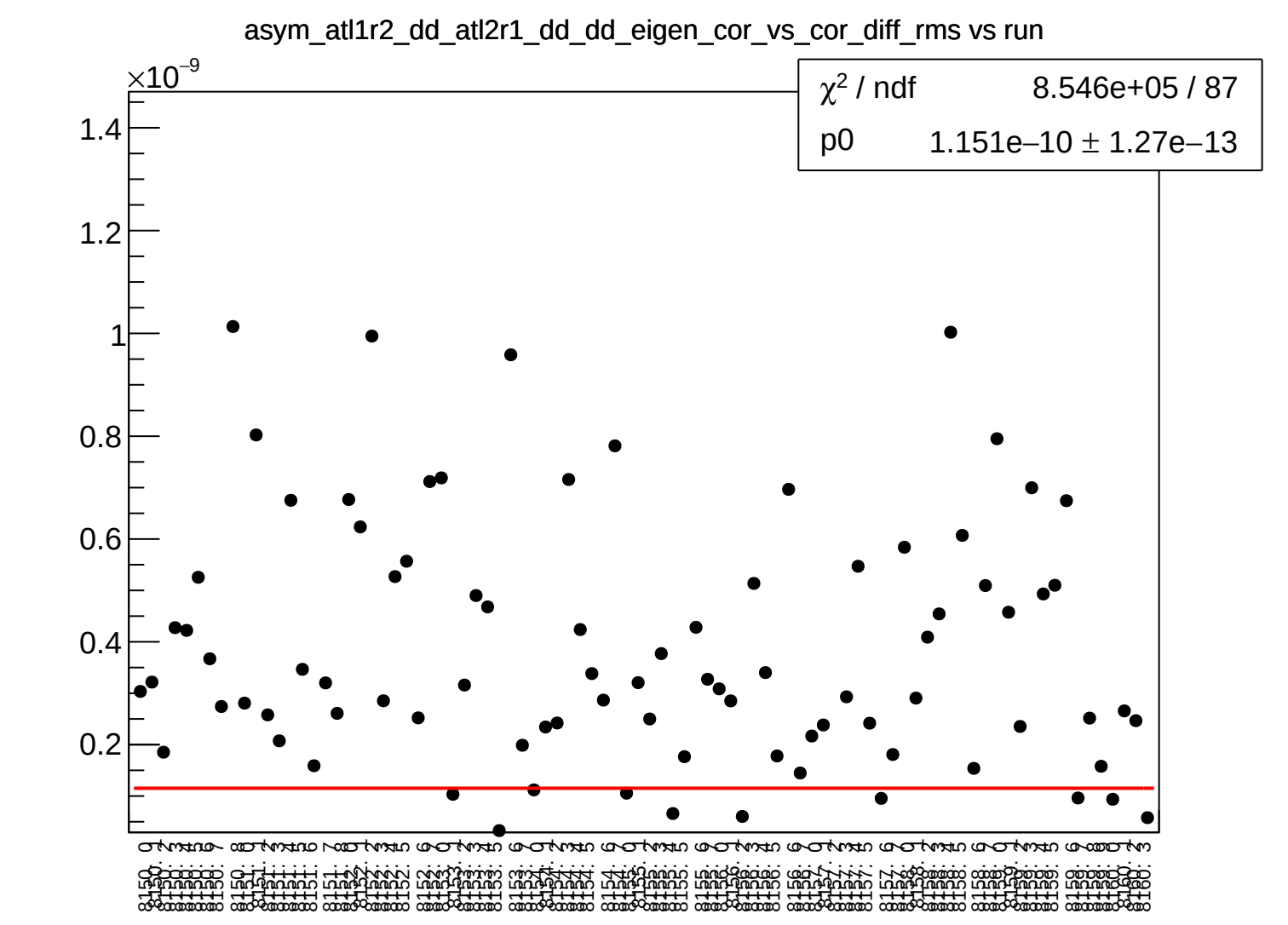


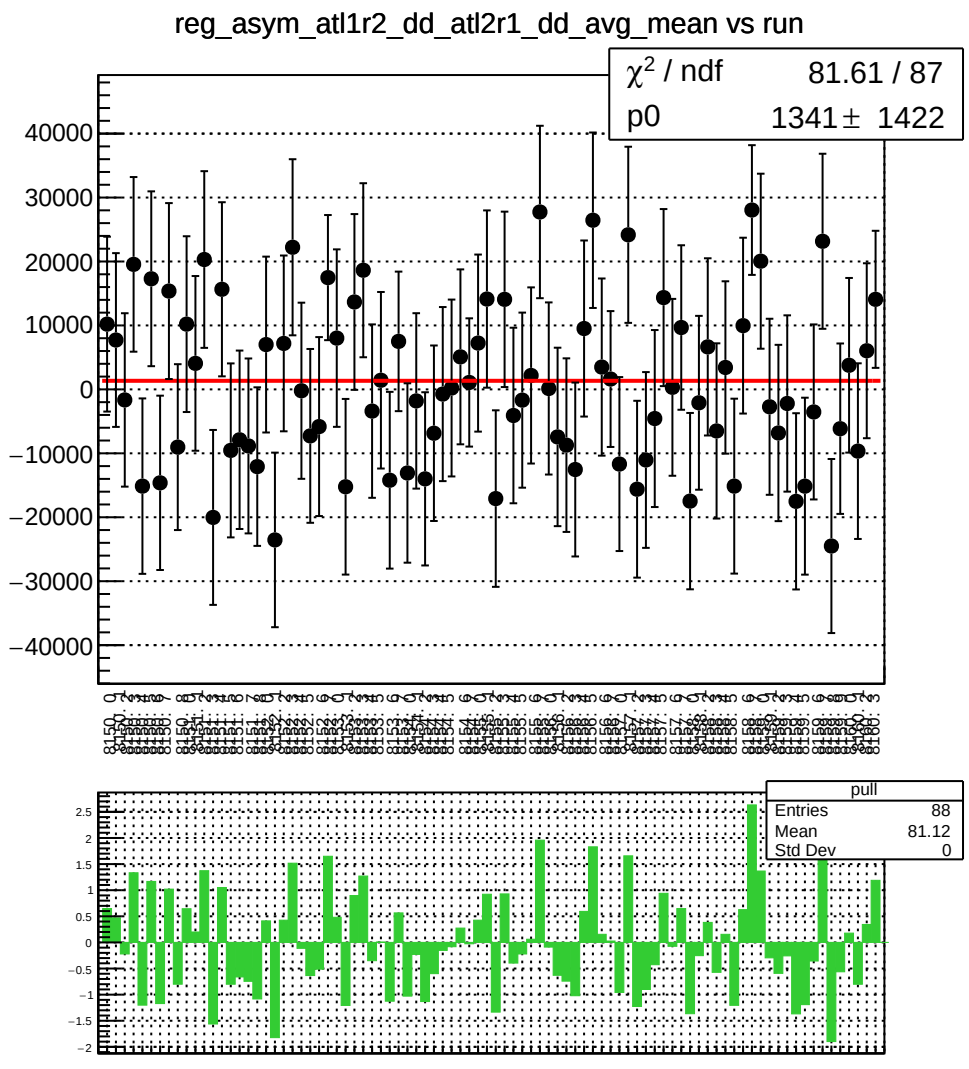

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.48 / 87
p0 0.2166 ± 0.1527
pull
Entries 88
Mean 221.4
Std Dev 0
pull1D
Entries 88
Mean 0.00108
Std Dev 1.008

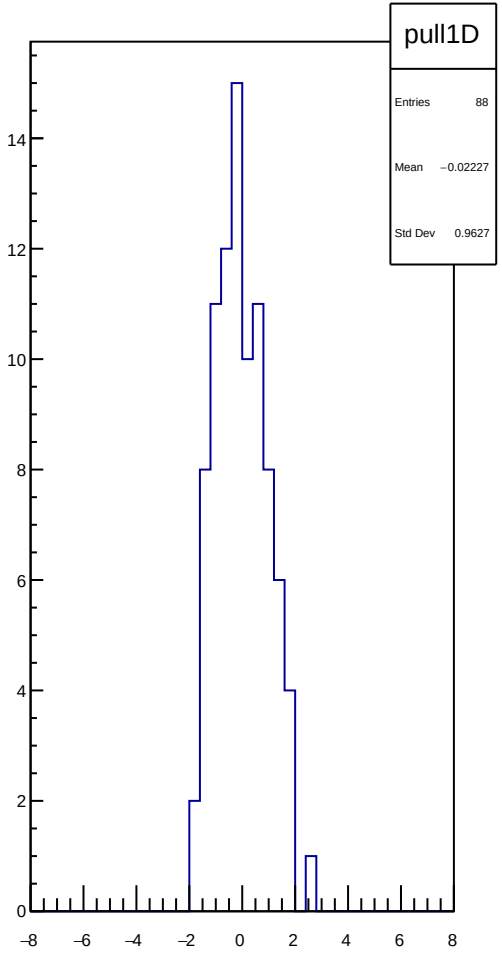

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.552e+04 / 87
p0 139.2 ± 0.108
180
170
160
150
140
130
120
110

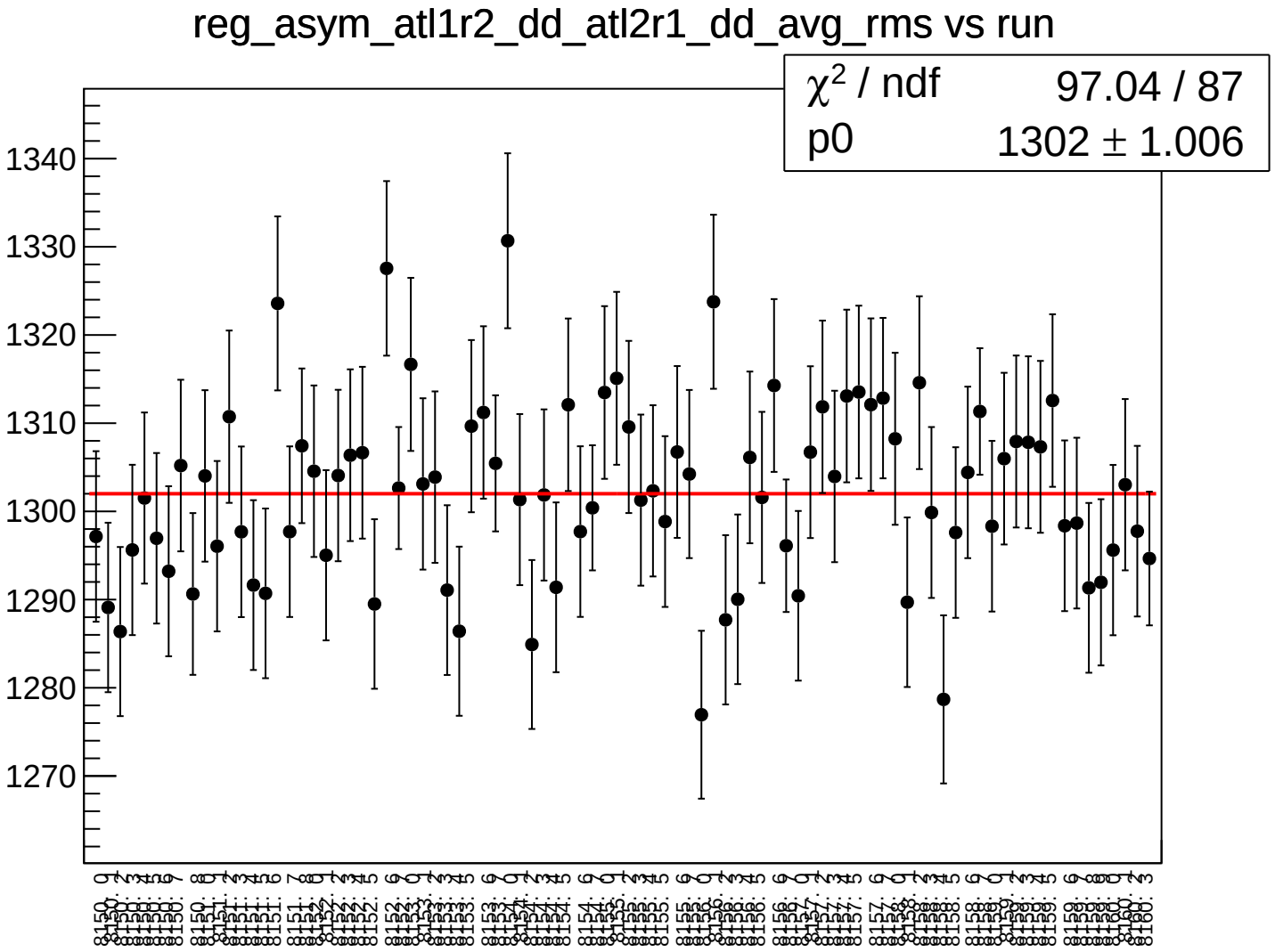

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.15 / 87
p0 −1.165e−13 ± 1.796e−13
pull
Entries 88
Mean 73.7
Std Dev 10.14

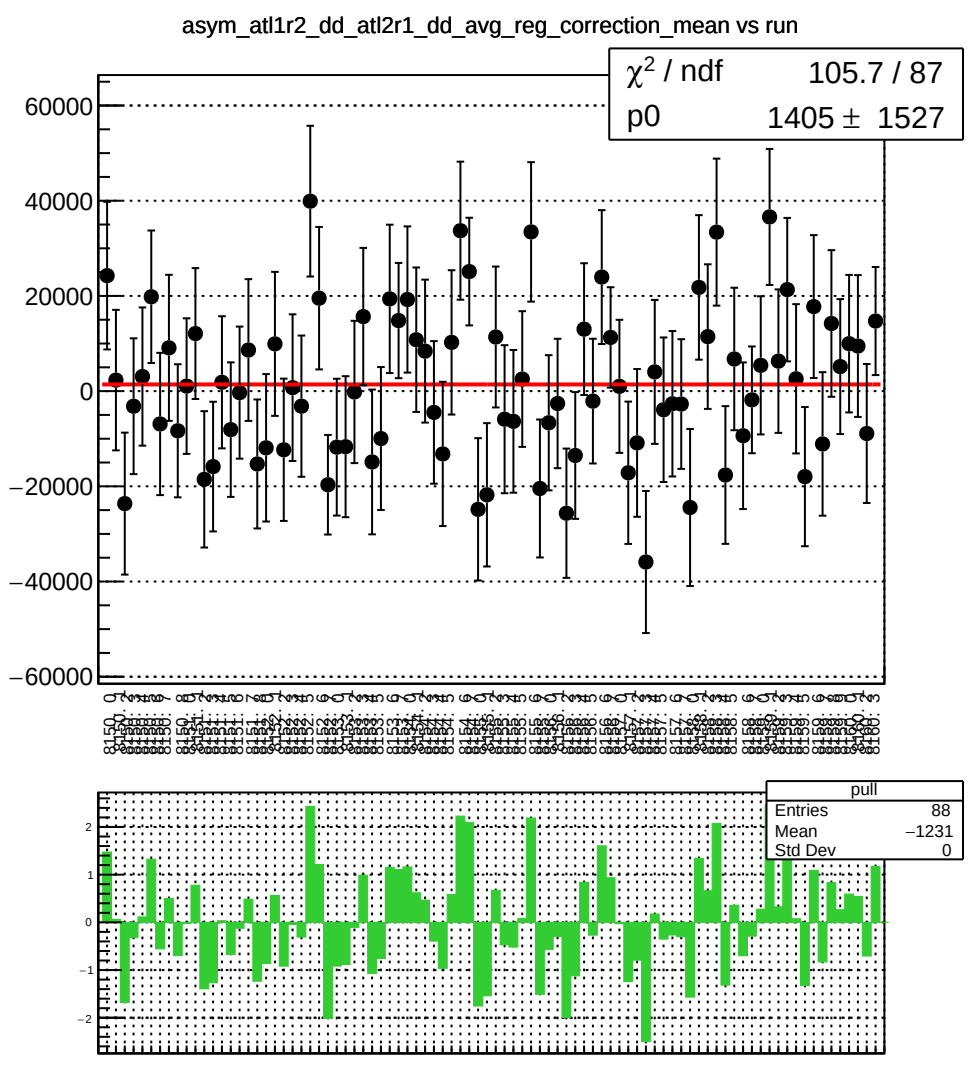

pull1D
Entries 88
Mean 0.07458
Std Dev 0.9808

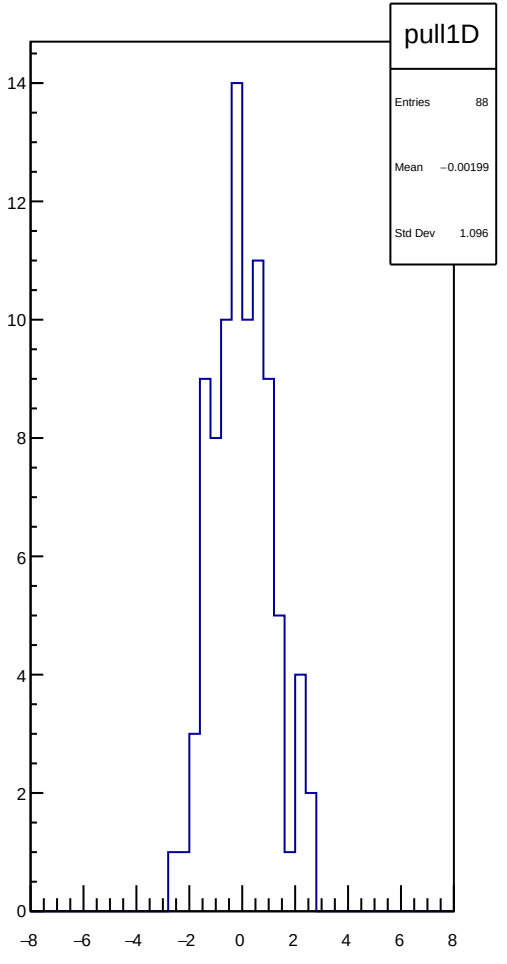

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.546e+05 / 87
p0 1.151e−10 ± 1.27e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

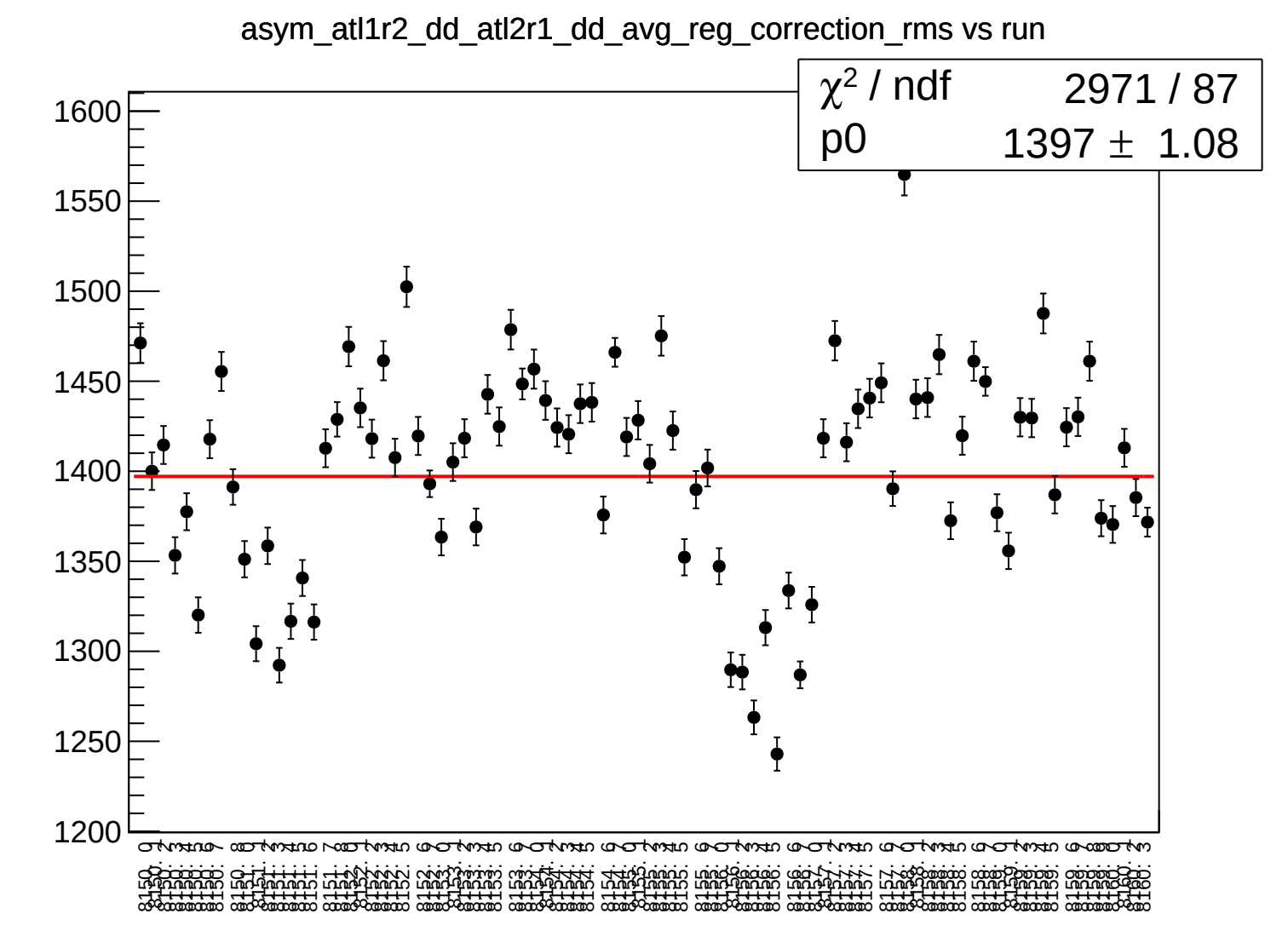

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 81.61 / 87
p0 1341 ± 1422
pull
Entries 88
Mean 81.12
Std Dev 0

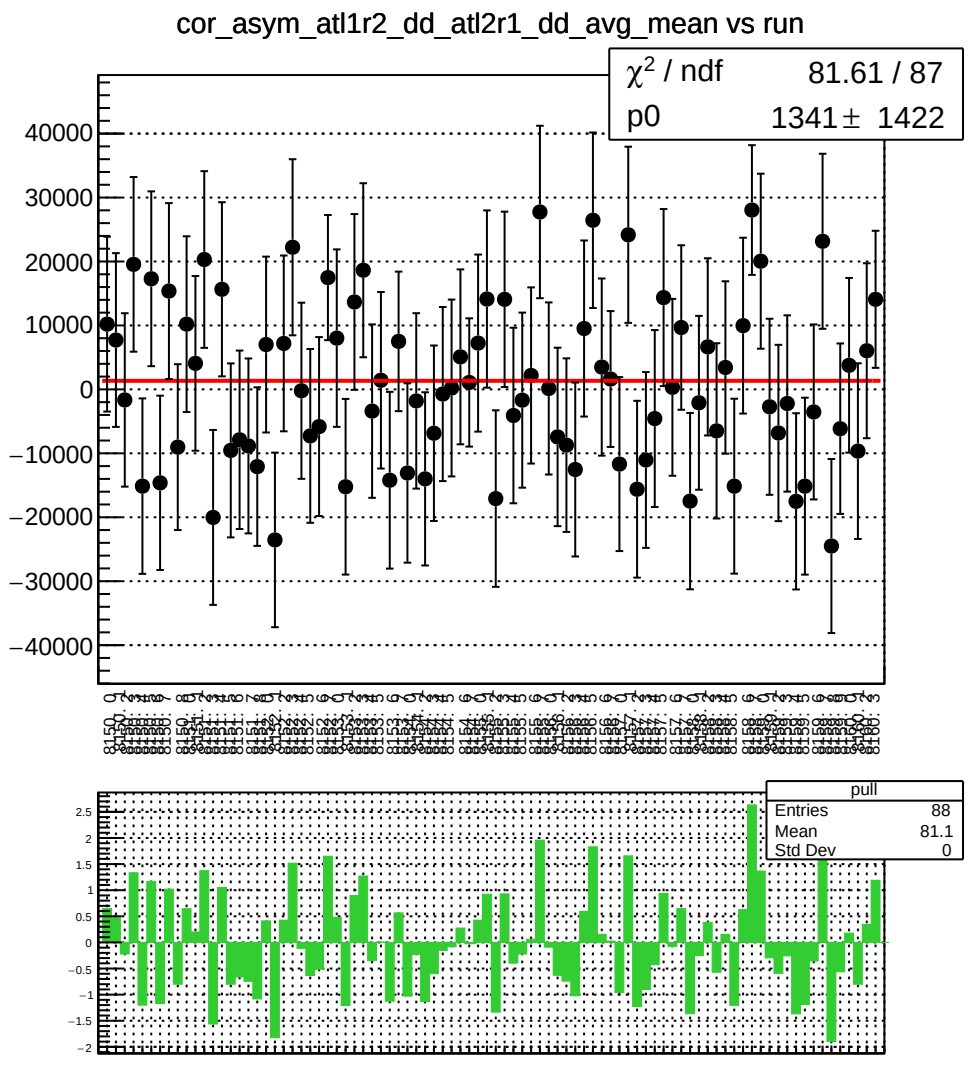

pull1D
Entries 88
Mean −0.02227
Std Dev 0.9627

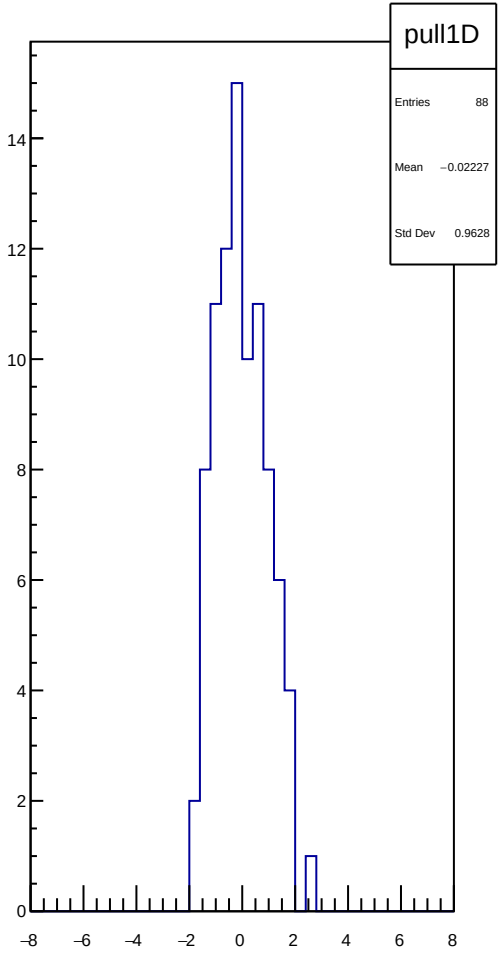

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 97.04 / 87
p0 1302 ± 1.006
1340
1330
1320
1310
1300
1290
1280
1270

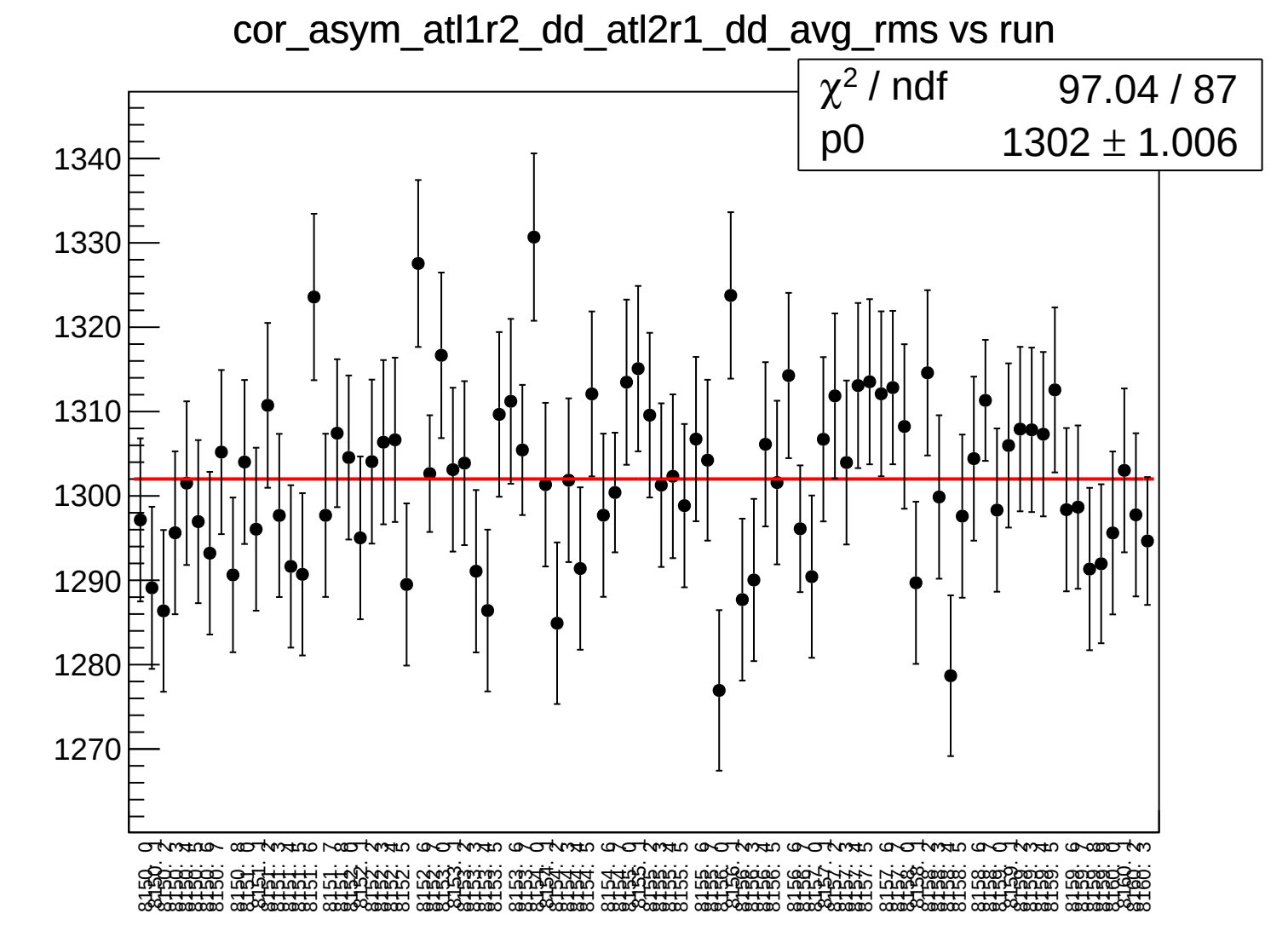

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 105.7 / 87
p0 1405 ± 1527
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1231
Std Dev 0
2
1
0
−1
−2

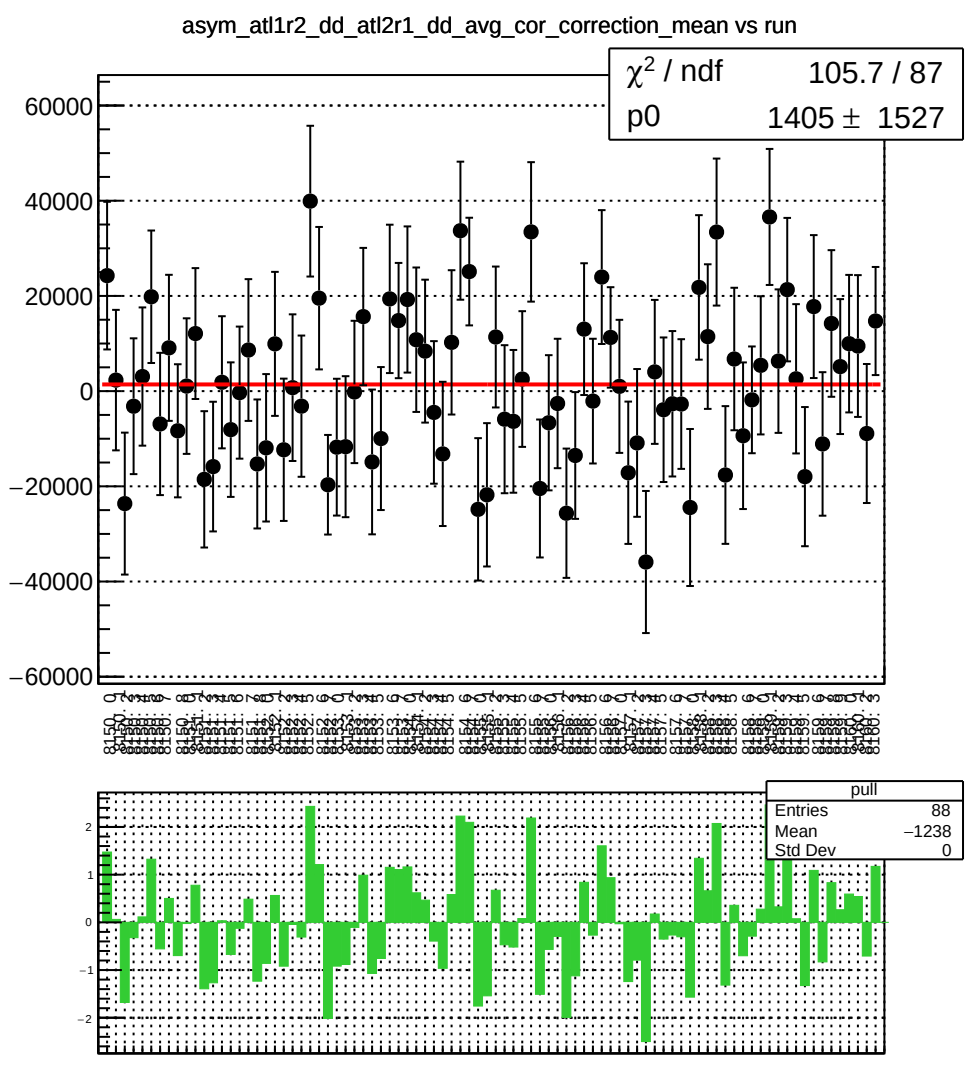

pull1D
Entries 88
Mean −0.00199
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

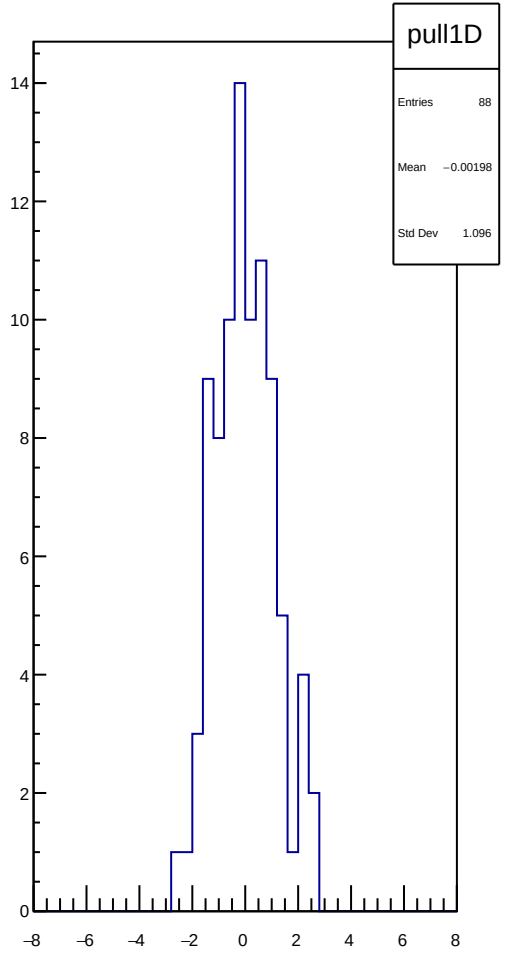

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 2971 / 87
p0 1397 ± 1.08
1600
1550
1500
1450
1400
1350
1300
1250
1200

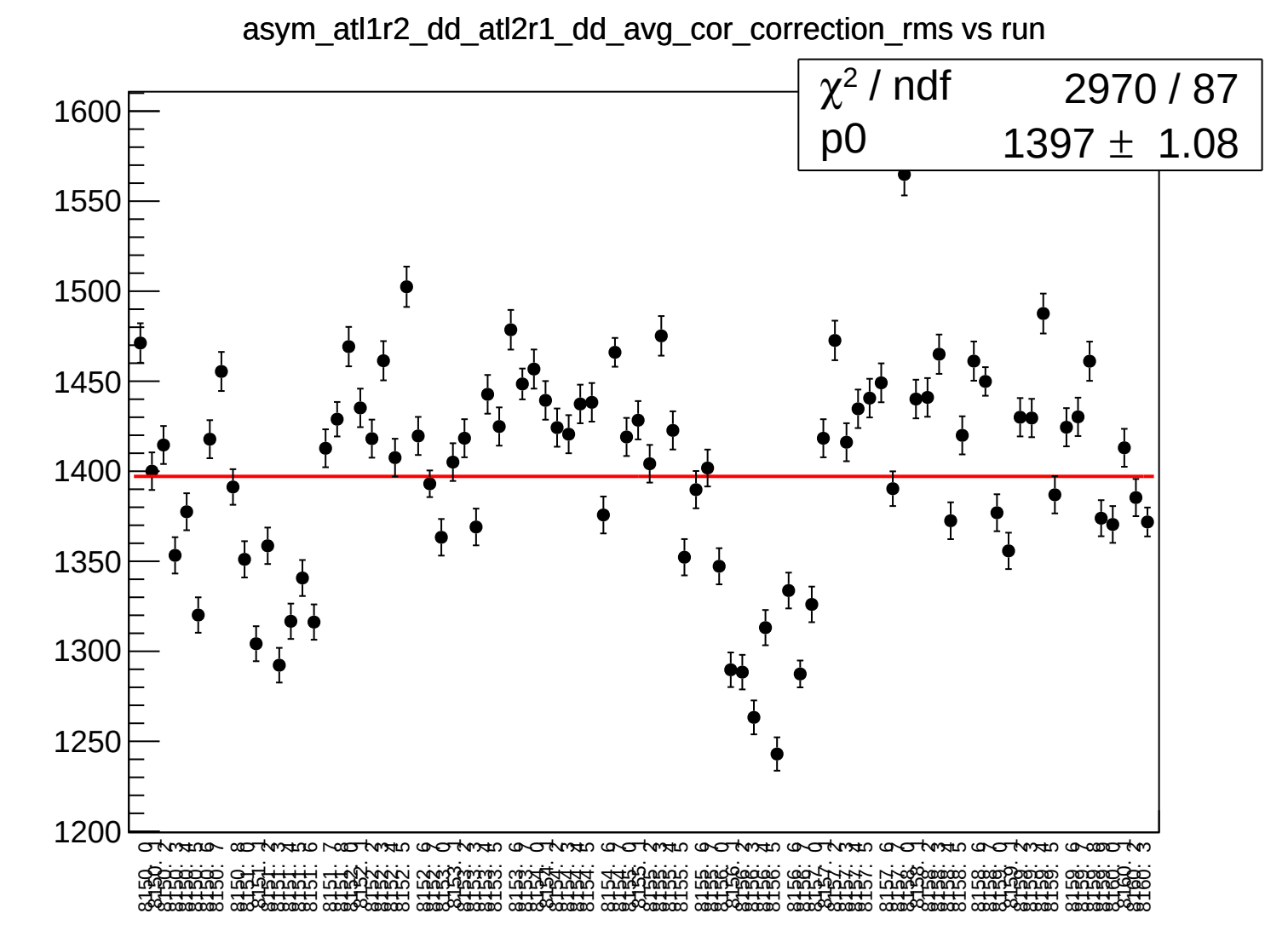

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 81.61 / 87
p0 1341 ± 1422
pull
Entries 88
Mean 81.1
Std Dev 0

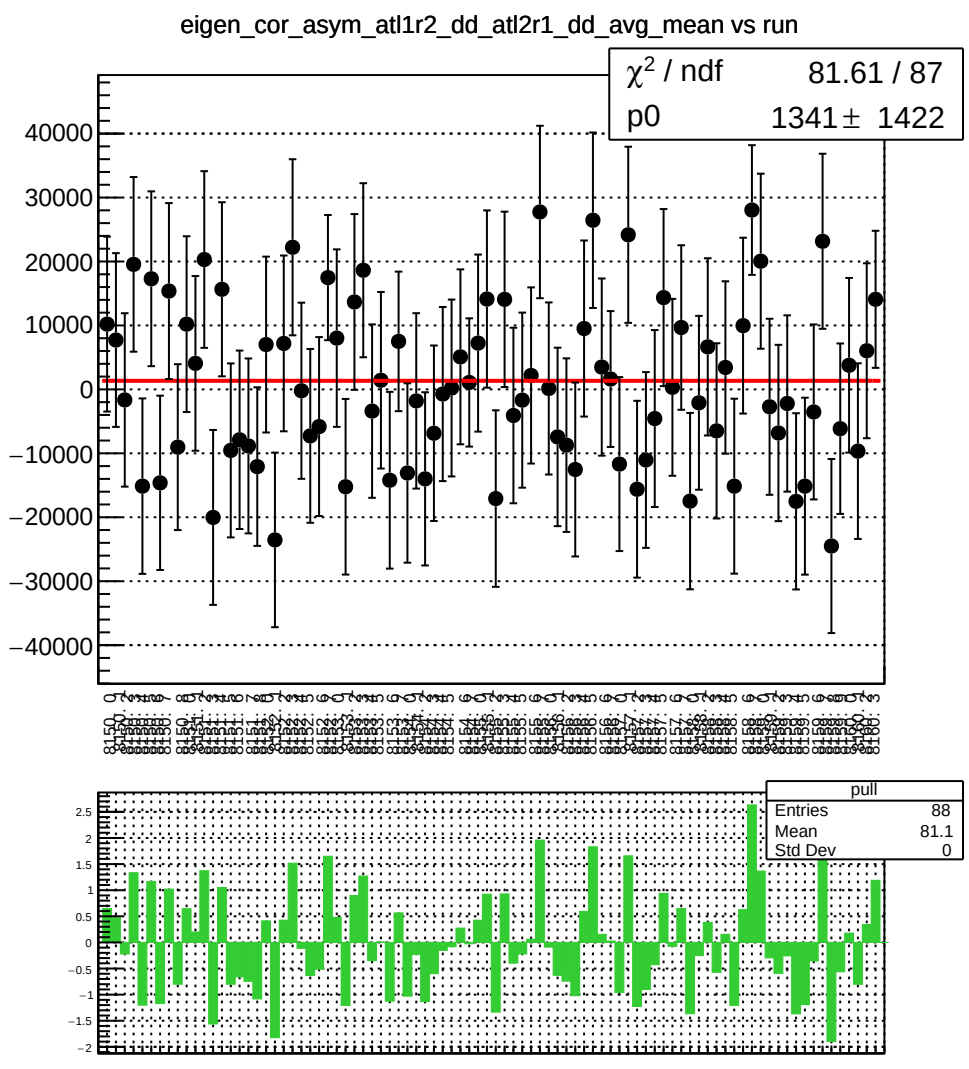

pull1D
Entries 88
Mean −0.02227
Std Dev 0.9628

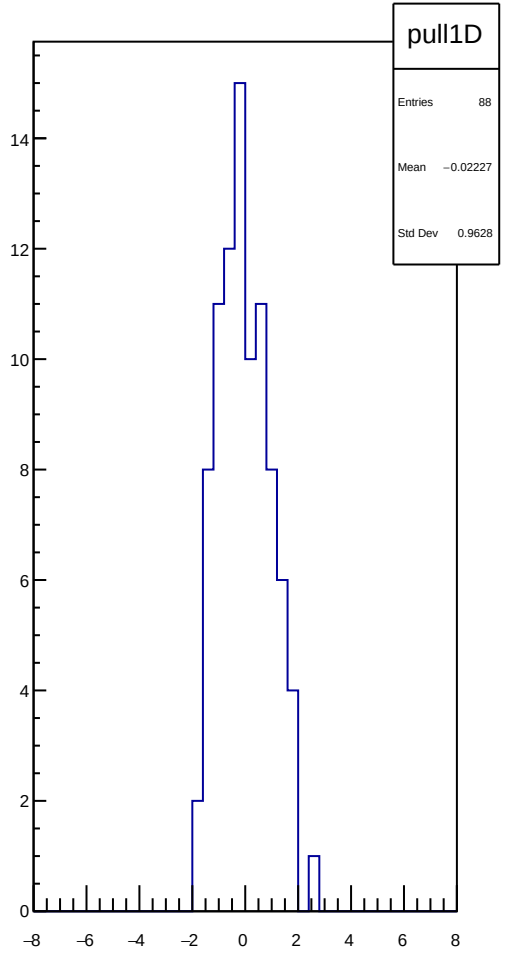

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 97.04 / 87
p0 1302 ± 1.006
1340
1330
1320
1310
1300
1290
1280
1270

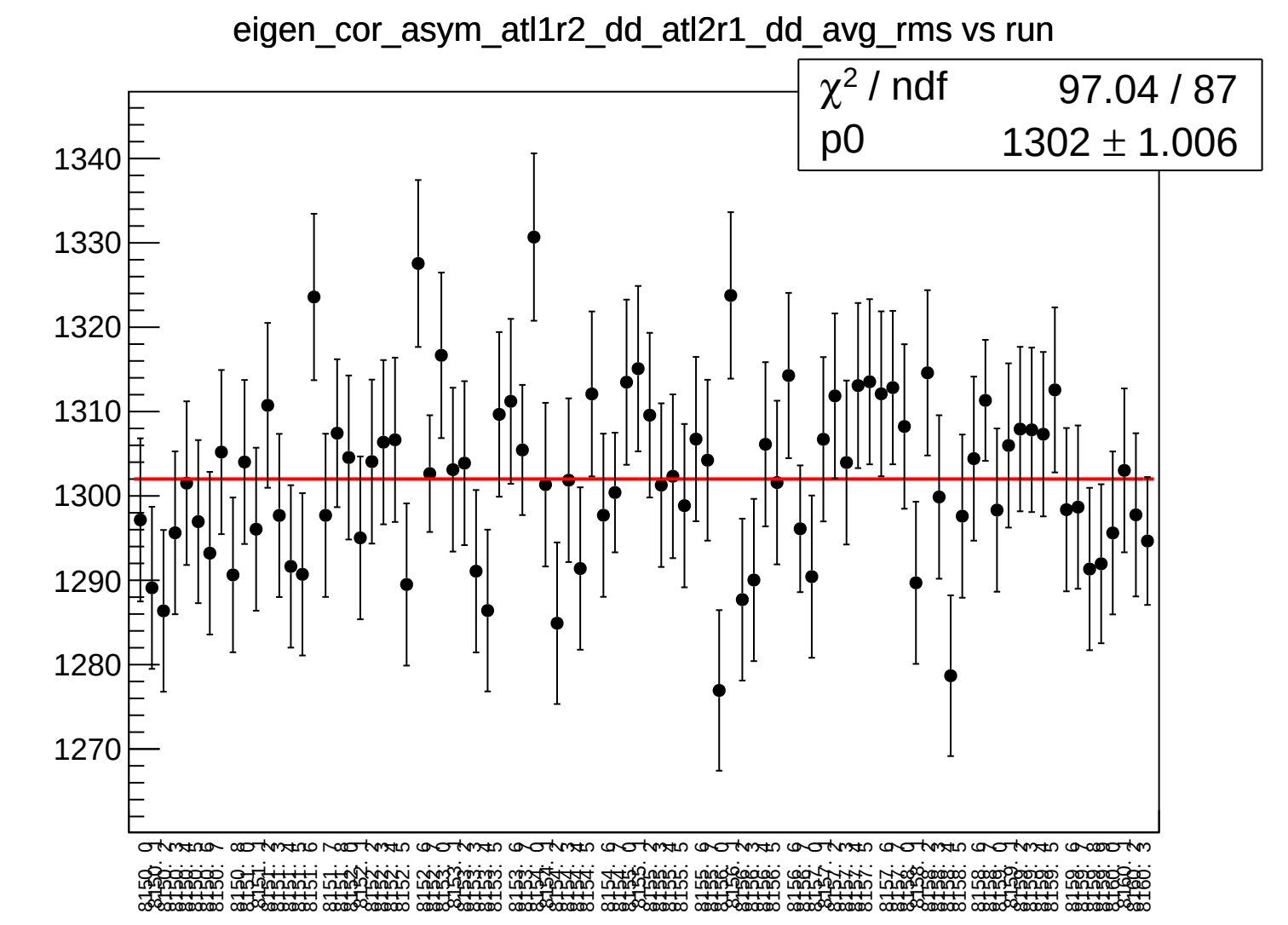

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 105.7 / 87
p0 1405 ± 1527
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1238
Std Dev 0
2
1
0
−1
−2

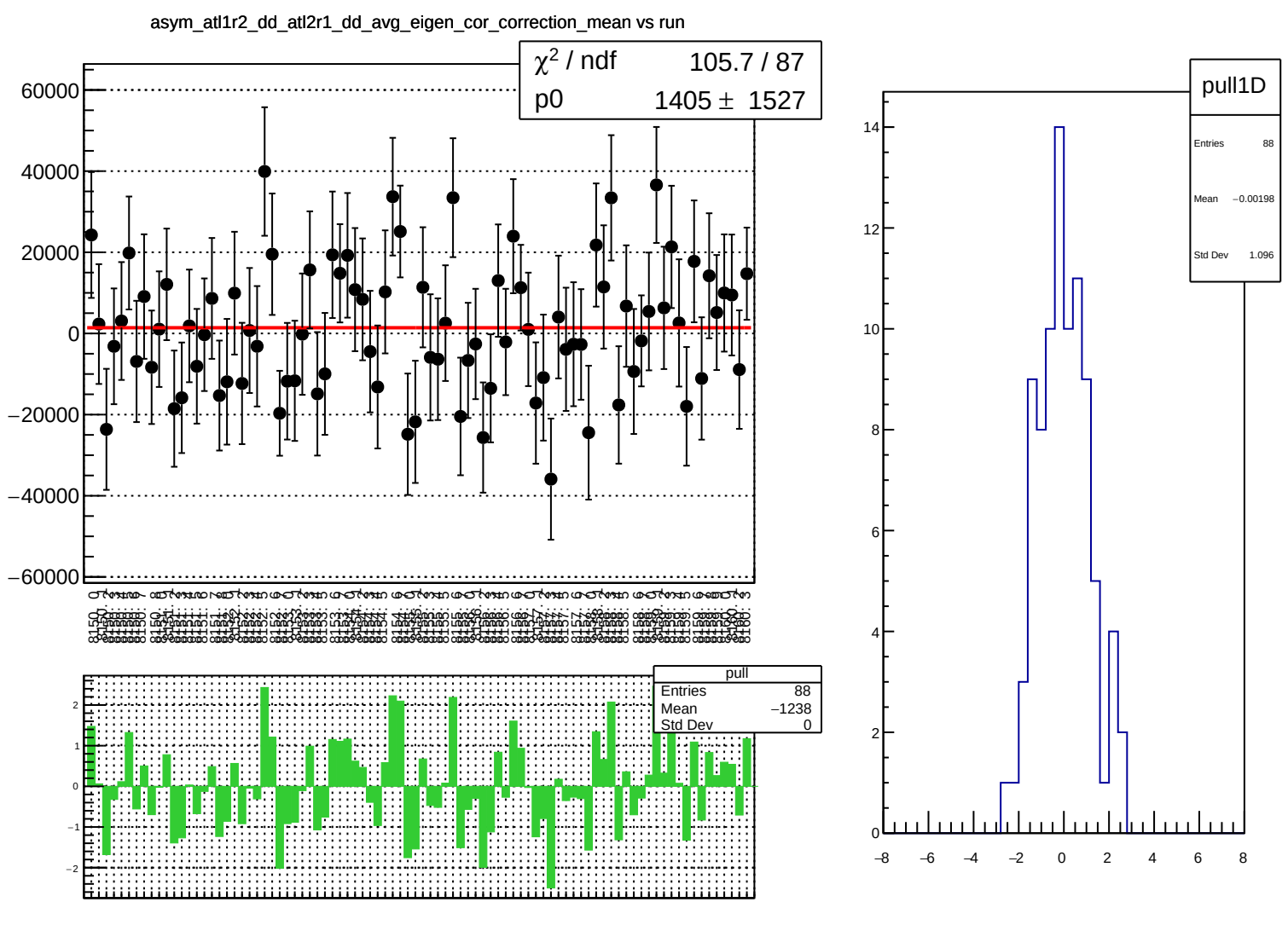

pull1D
Entries 88
Mean −0.00198
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

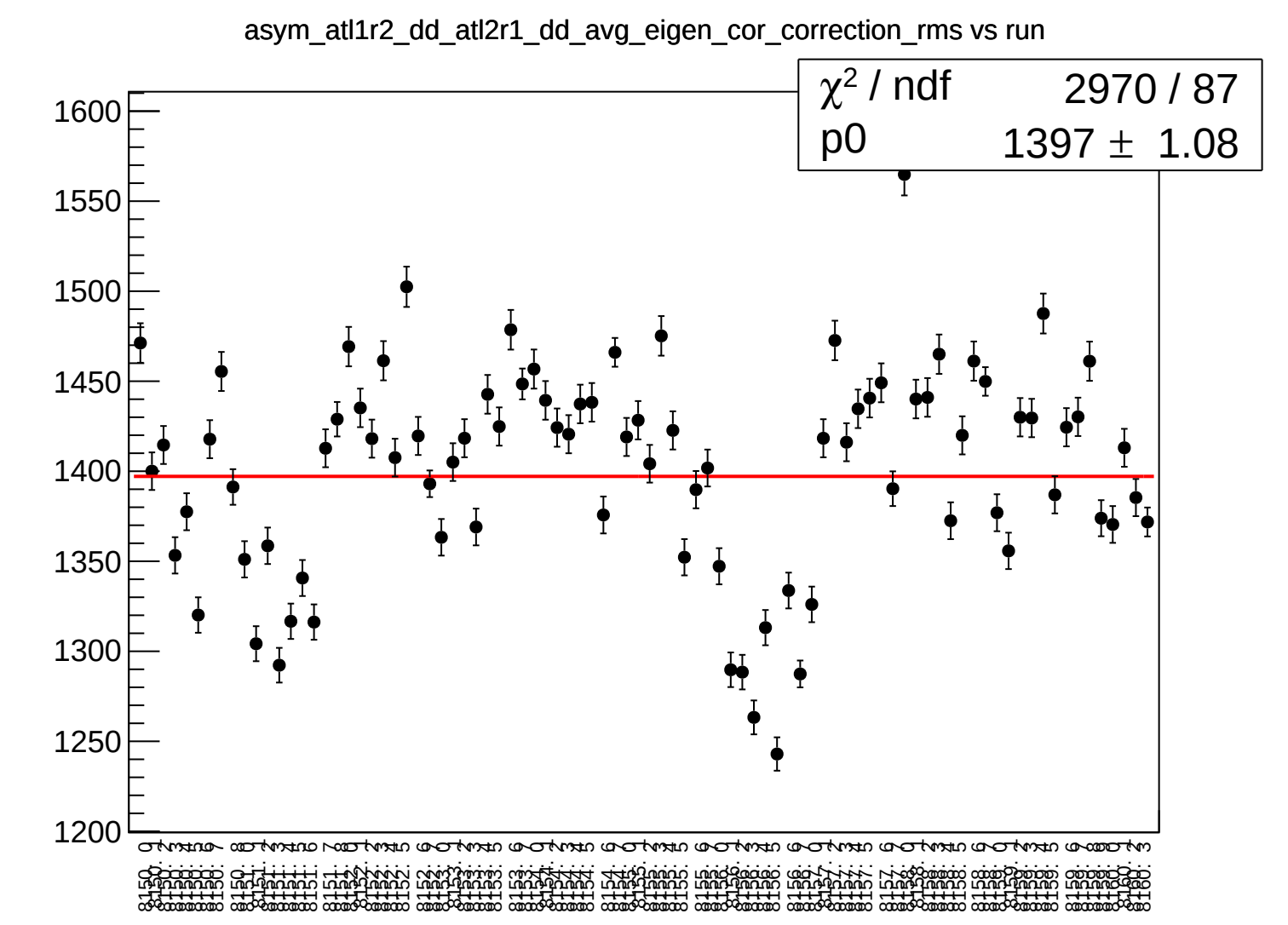

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 2970 / 87
p0 1397 ± 1.08
1600
1550
1500
1450
1400
1350
1300
1250
1200

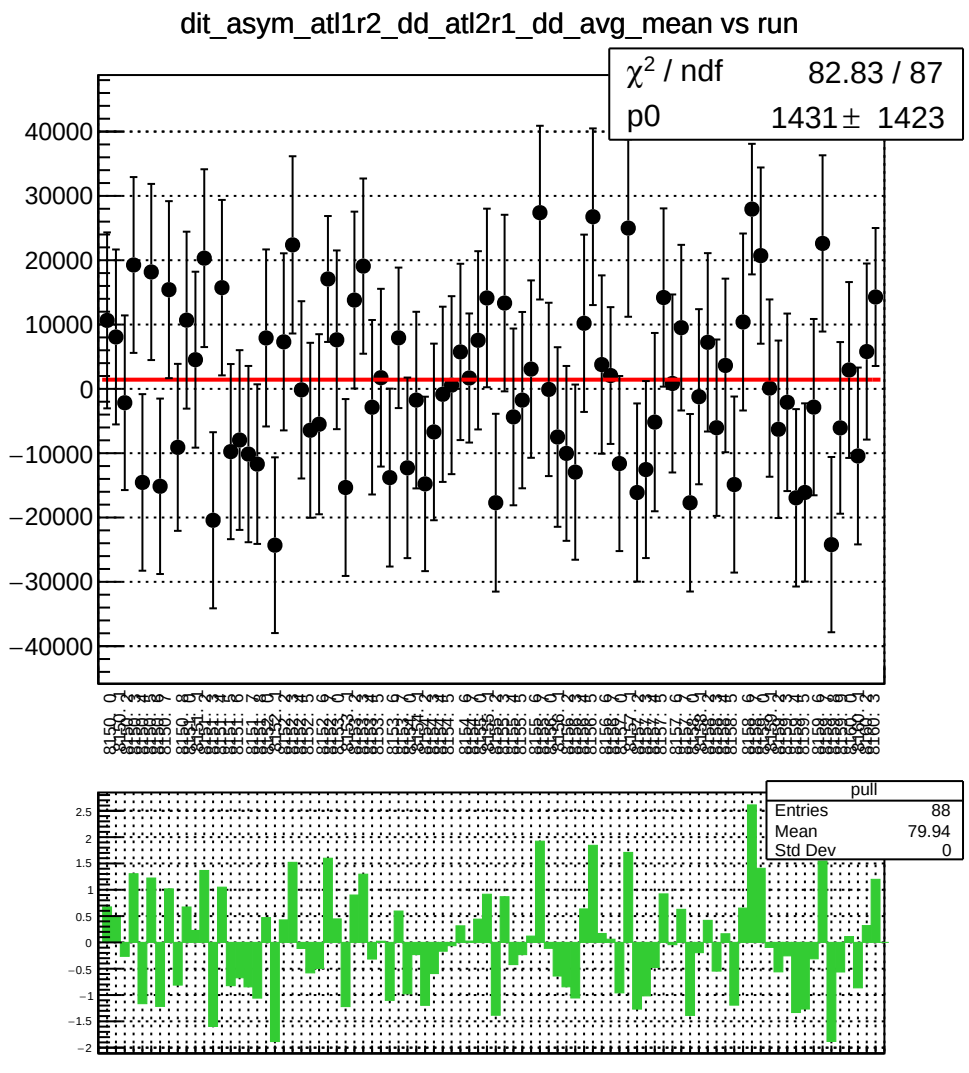

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 81.61 / 87
p0 1341 ± 1422
pull
Entries 88
Mean 81.1
Std Dev 0

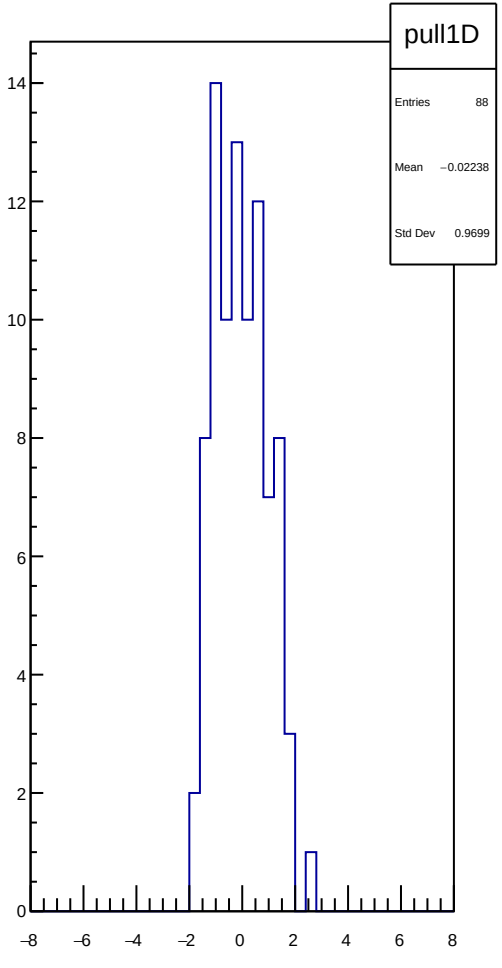

pull1D
Entries 88
Mean −0.02227
Std Dev 0.9628

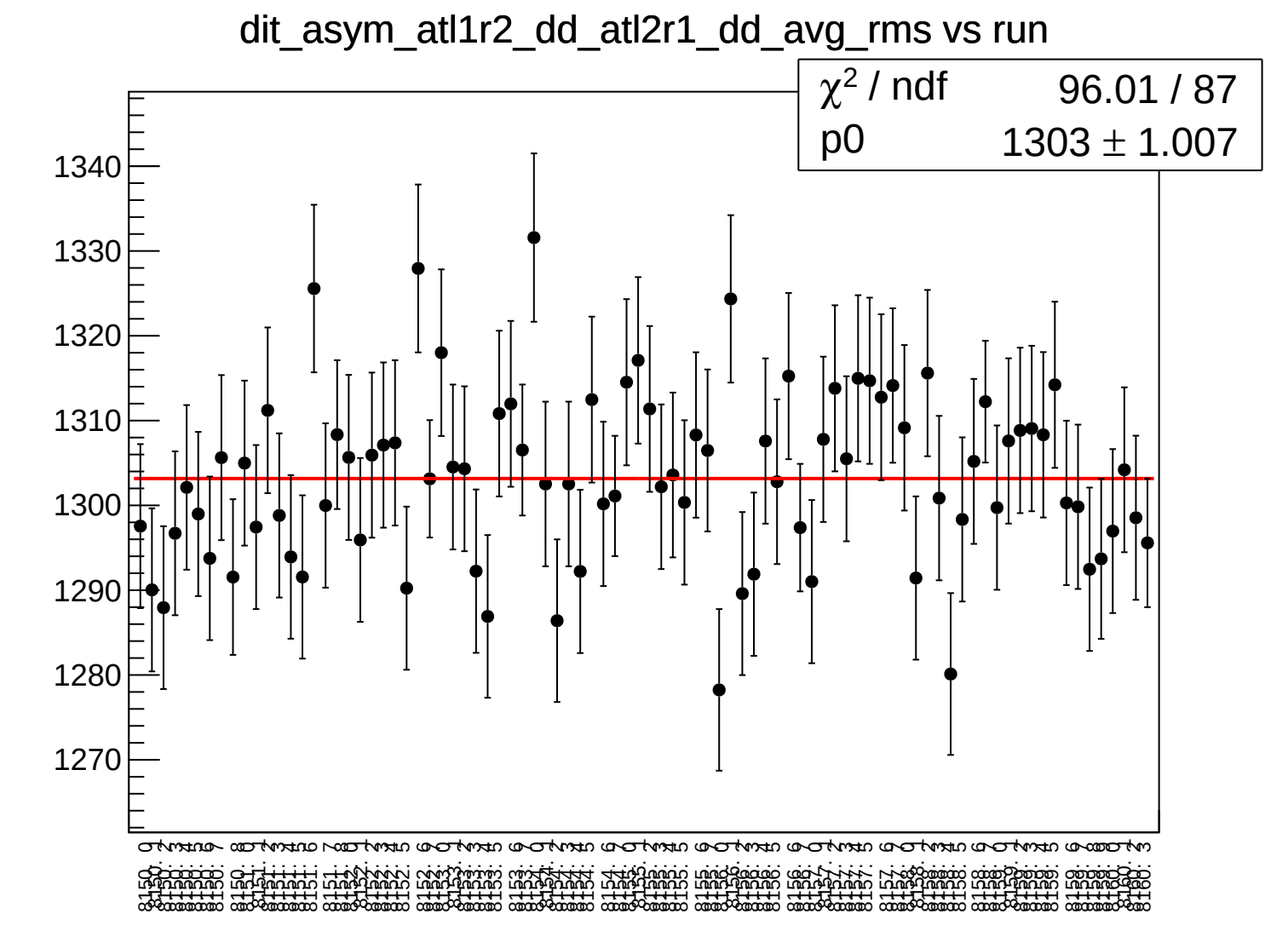

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 97.04 / 87
p0 1302 ± 1.006
1340
1330
1320
1310
1300
1290
1280
1270

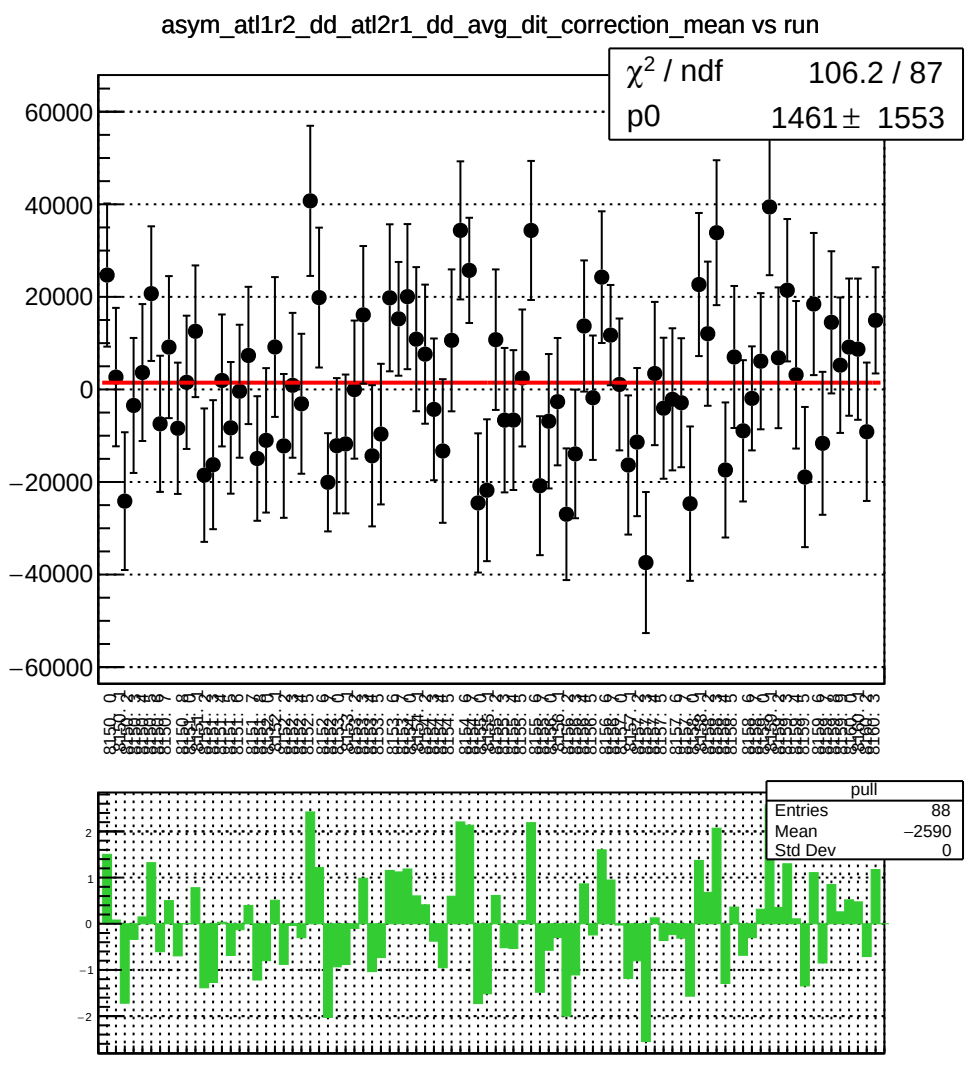

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 105.7 / 87
p0 1405 ± 1527
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1238
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00198
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

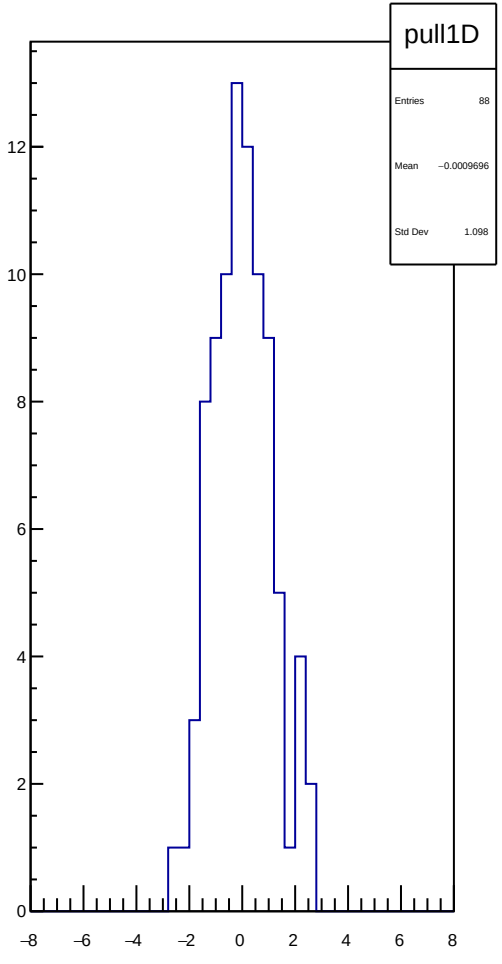

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2970 / 87
p0 1397 ± 1.08
1600
1550
1500
1450
1400
1350
1300
1250
1200

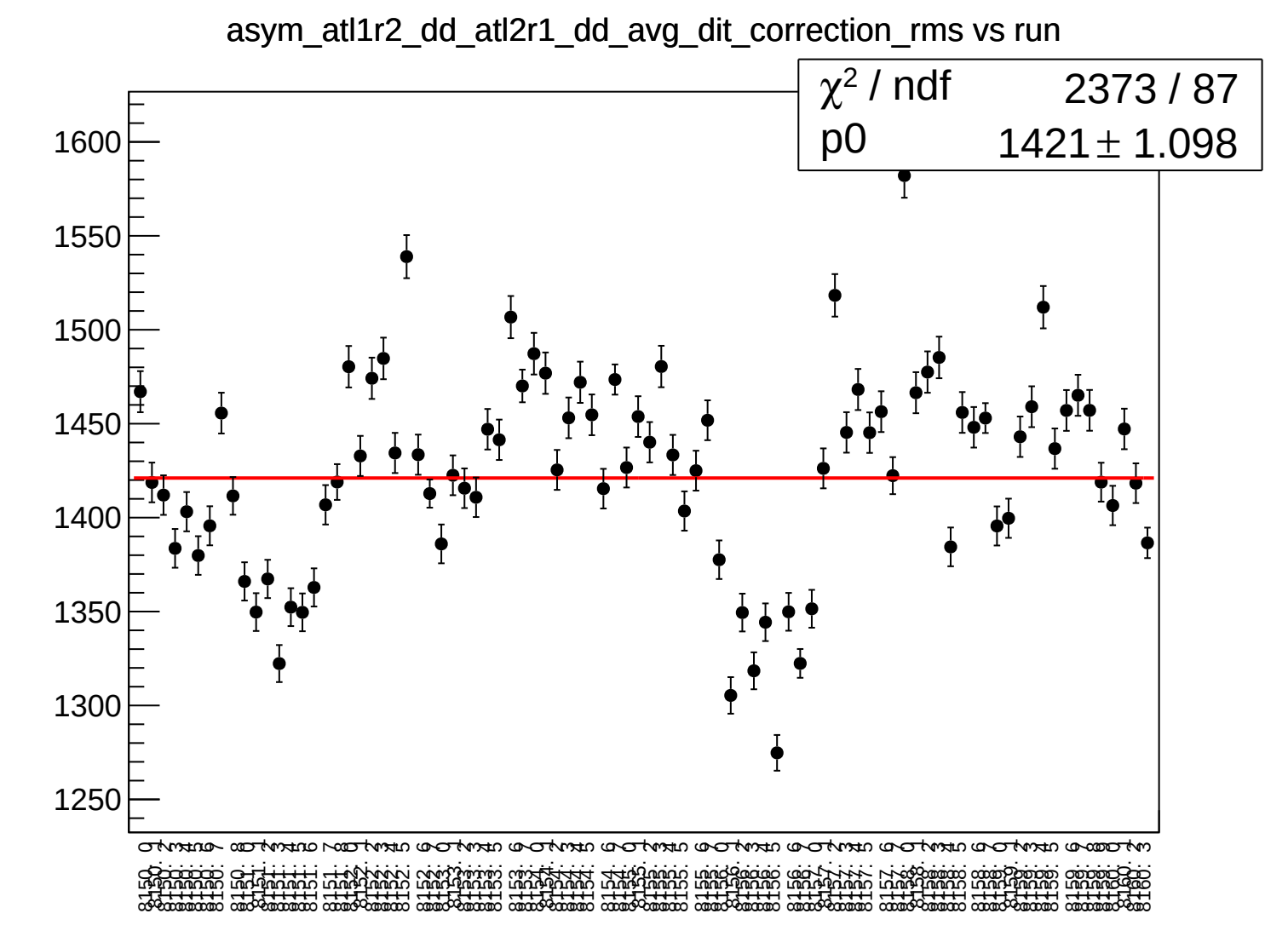

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 82.83 / 87
p0 1431 ± 1423
pull
Entries 88
Mean 79.94
Std Dev 0

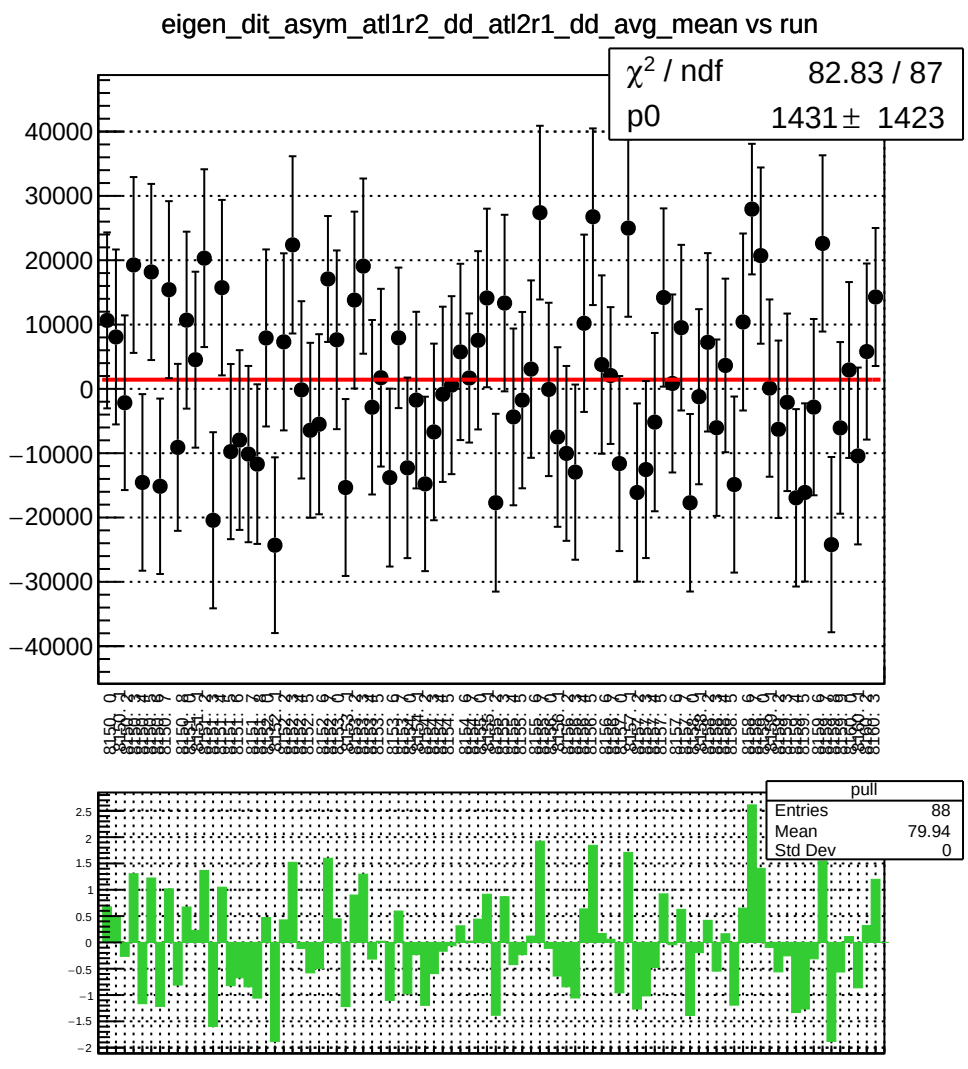

pull1D
Entries 88
Mean −0.02238
Std Dev 0.9699

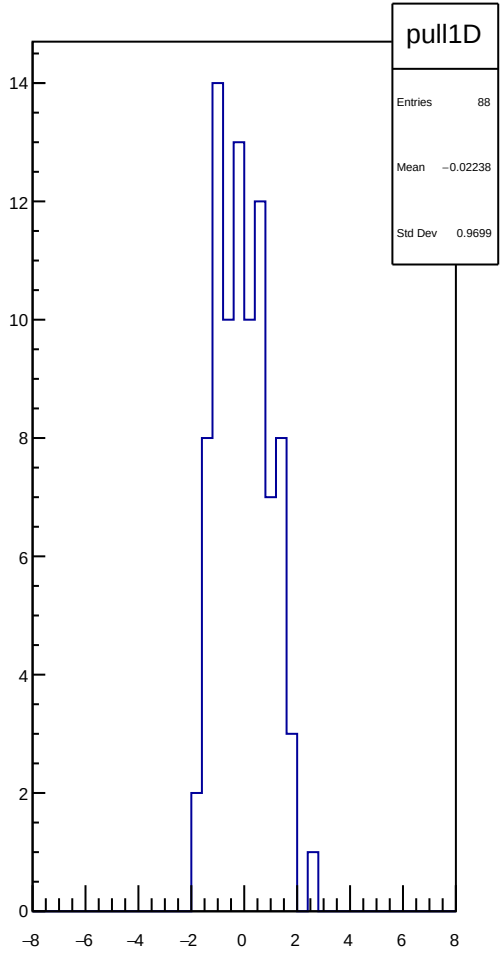

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 96.01 / 87
p0 1303 ± 1.007
1340
1330
1320
1310
1300
1290
1280
1270

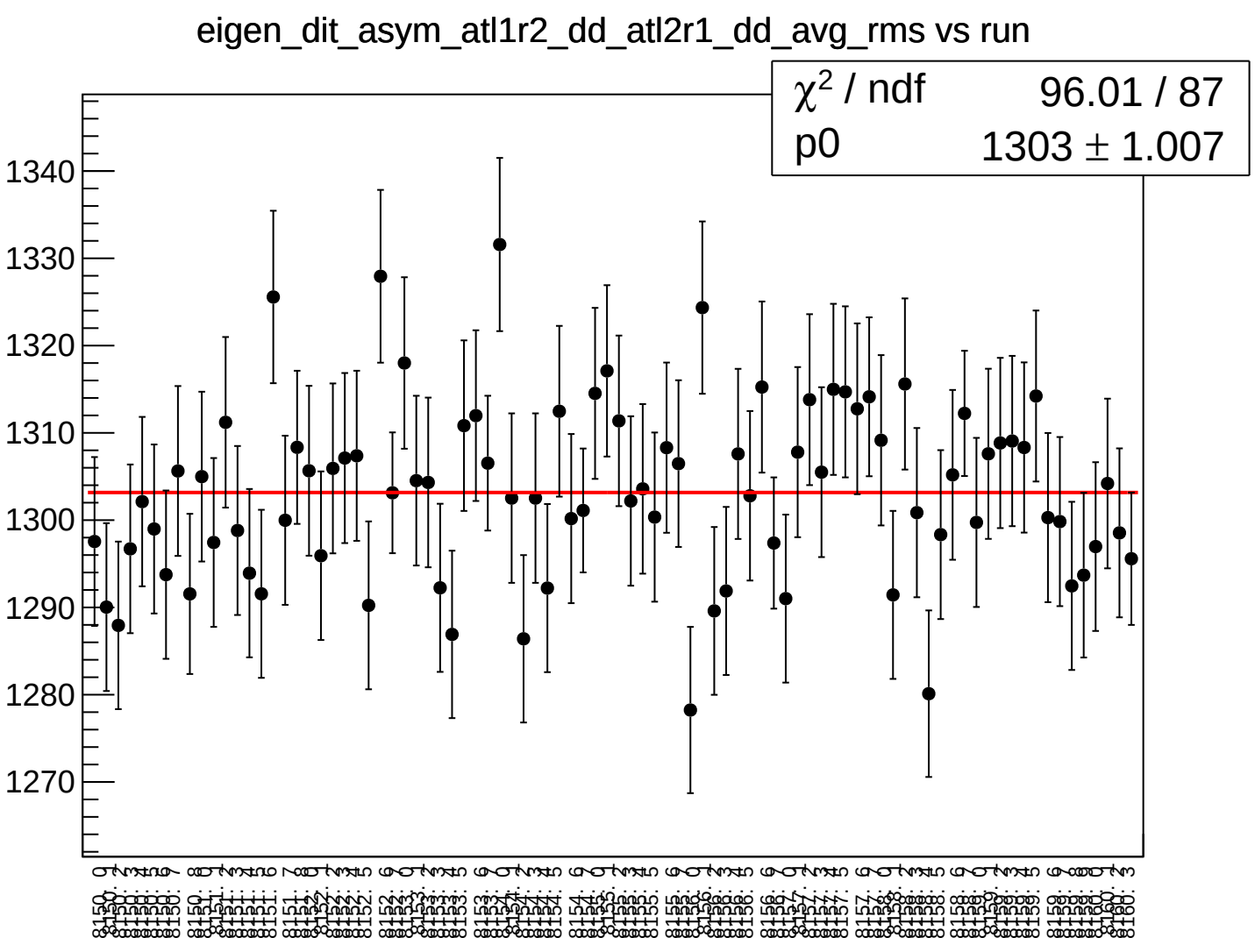

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 106.2 / 87
p0 1461 ± 1553
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −2590
Std Dev 0
2
1
0
−1
−2

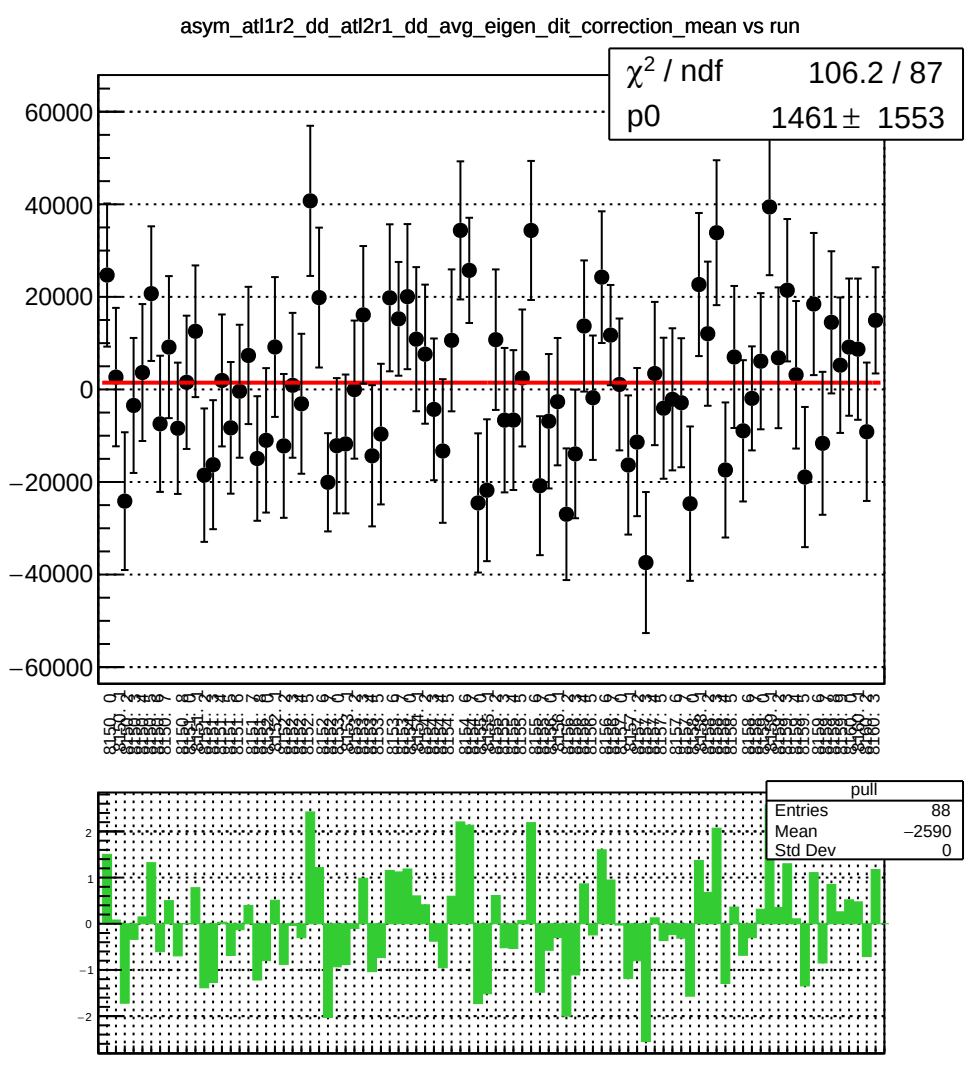

pull1D
Entries 88
Mean −0.0009696
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

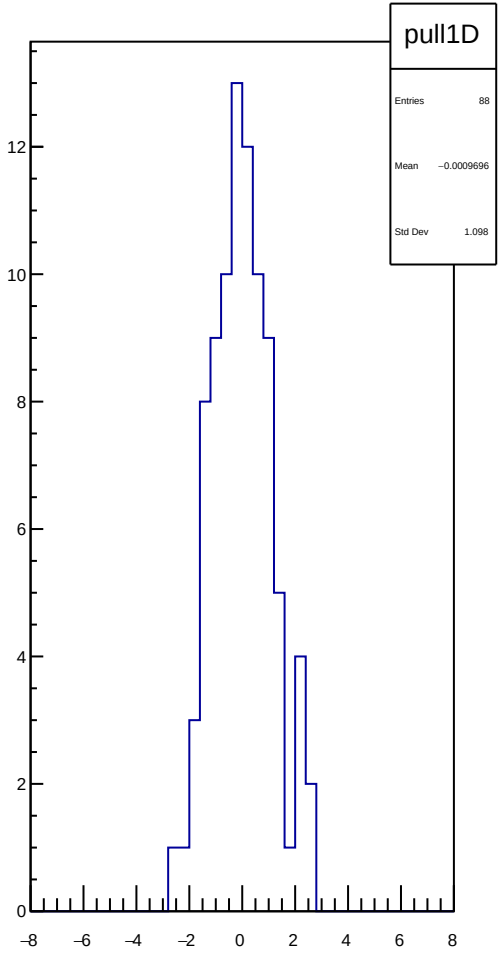

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 2373 / 87
p0 1421 ± 1.098
1600
1550
1500
1450
1400
1350
1300
1250

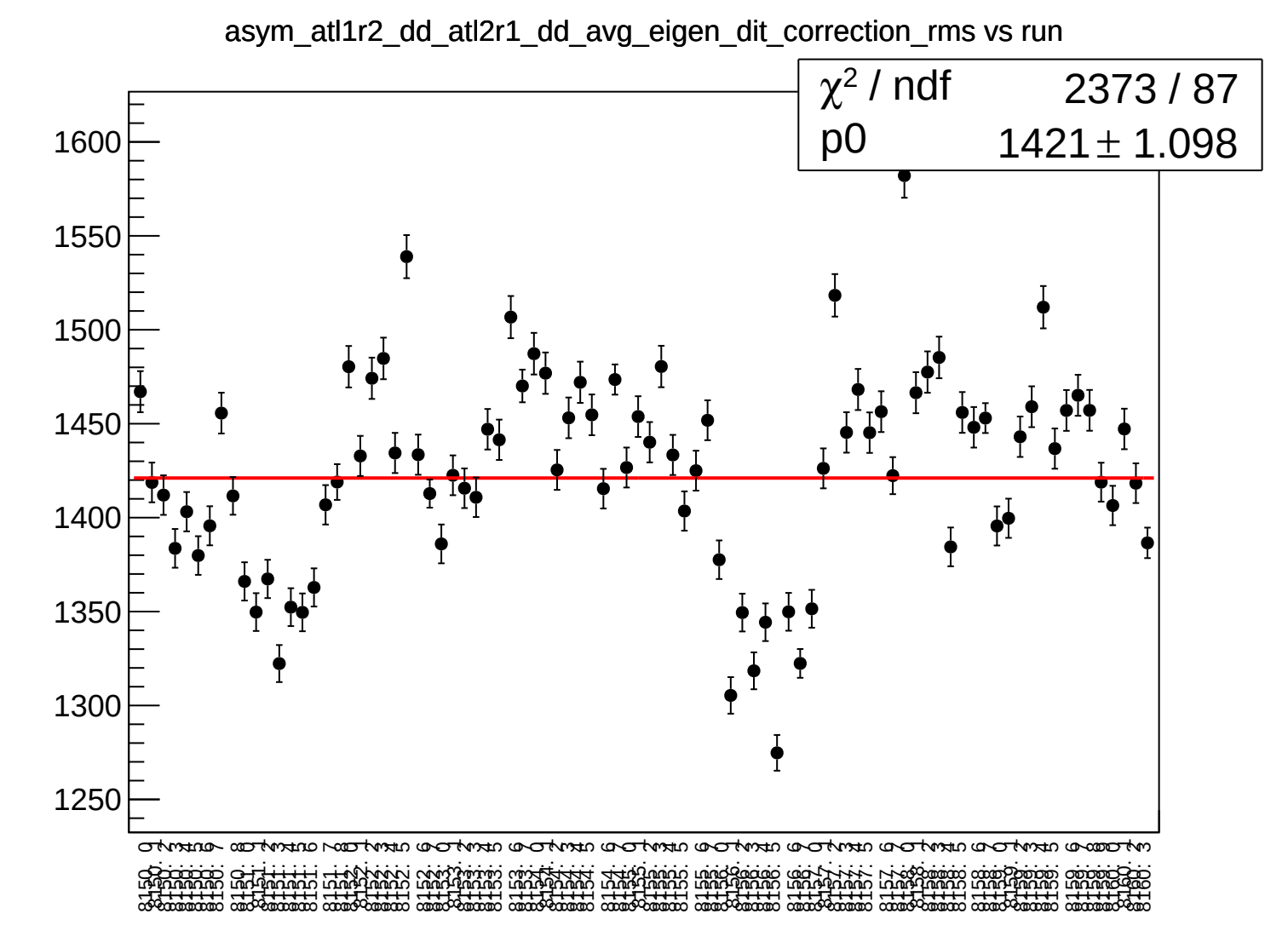

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 82.83 / 87
p0 1431 ± 1423
pull
Entries 88
Mean 79.94
Std Dev 0

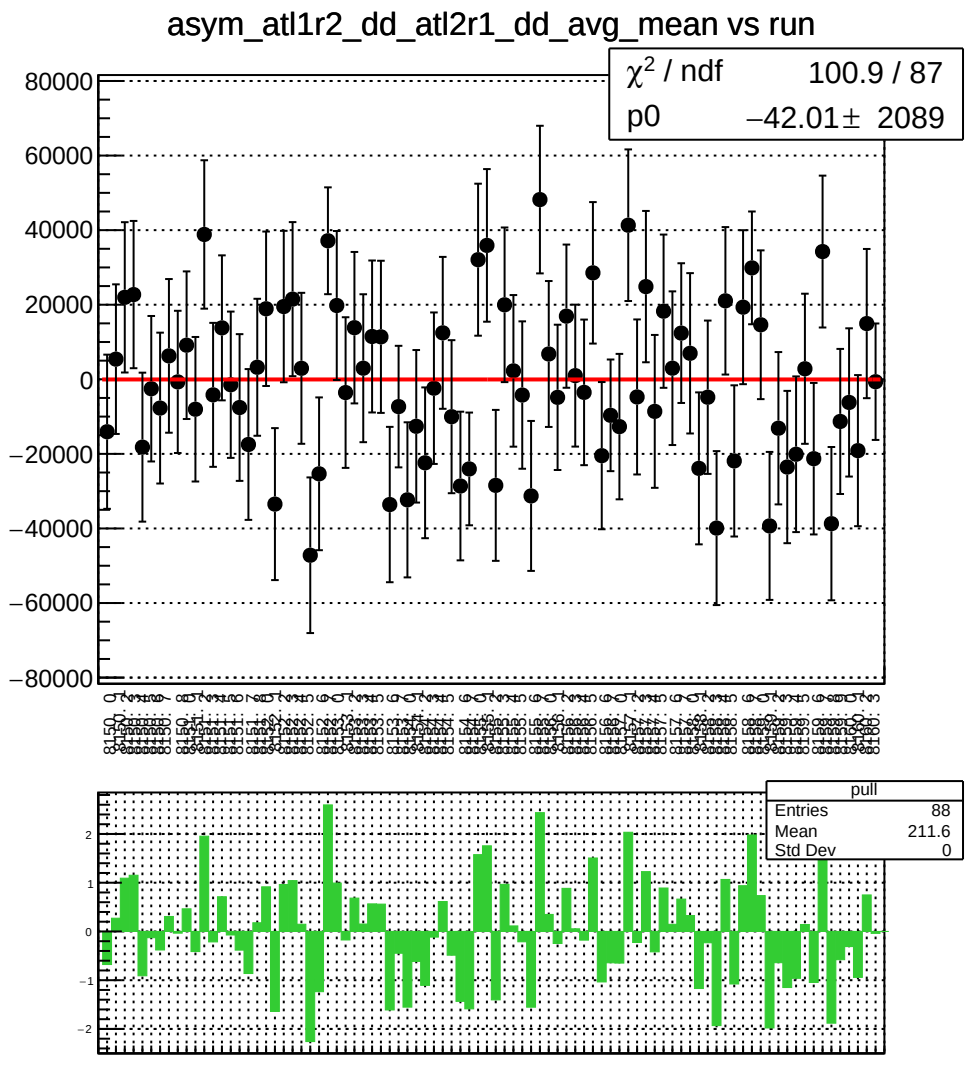

pull1D
Entries 88
Mean −0.02238
Std Dev 0.9699

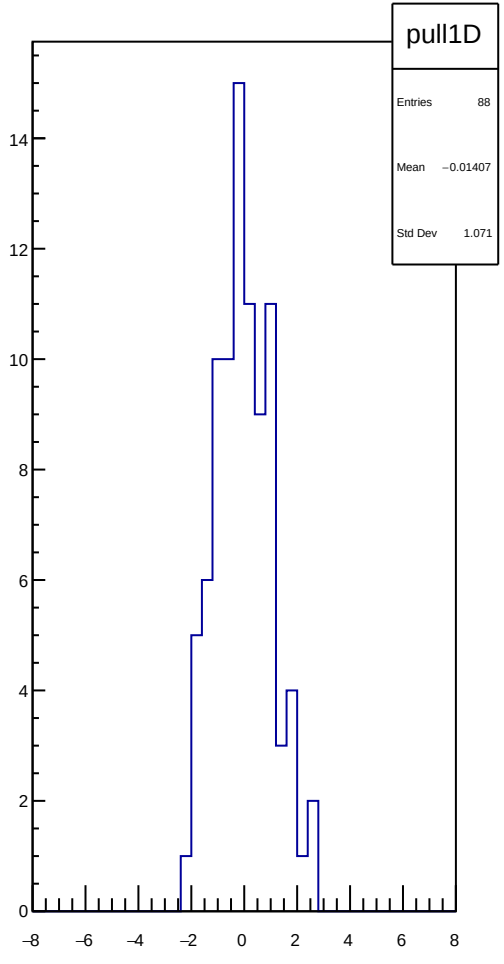

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 96.01 / 87
p0 1303 ± 1.007
1340
1330
1320
1310
1300
1290
1280
1270

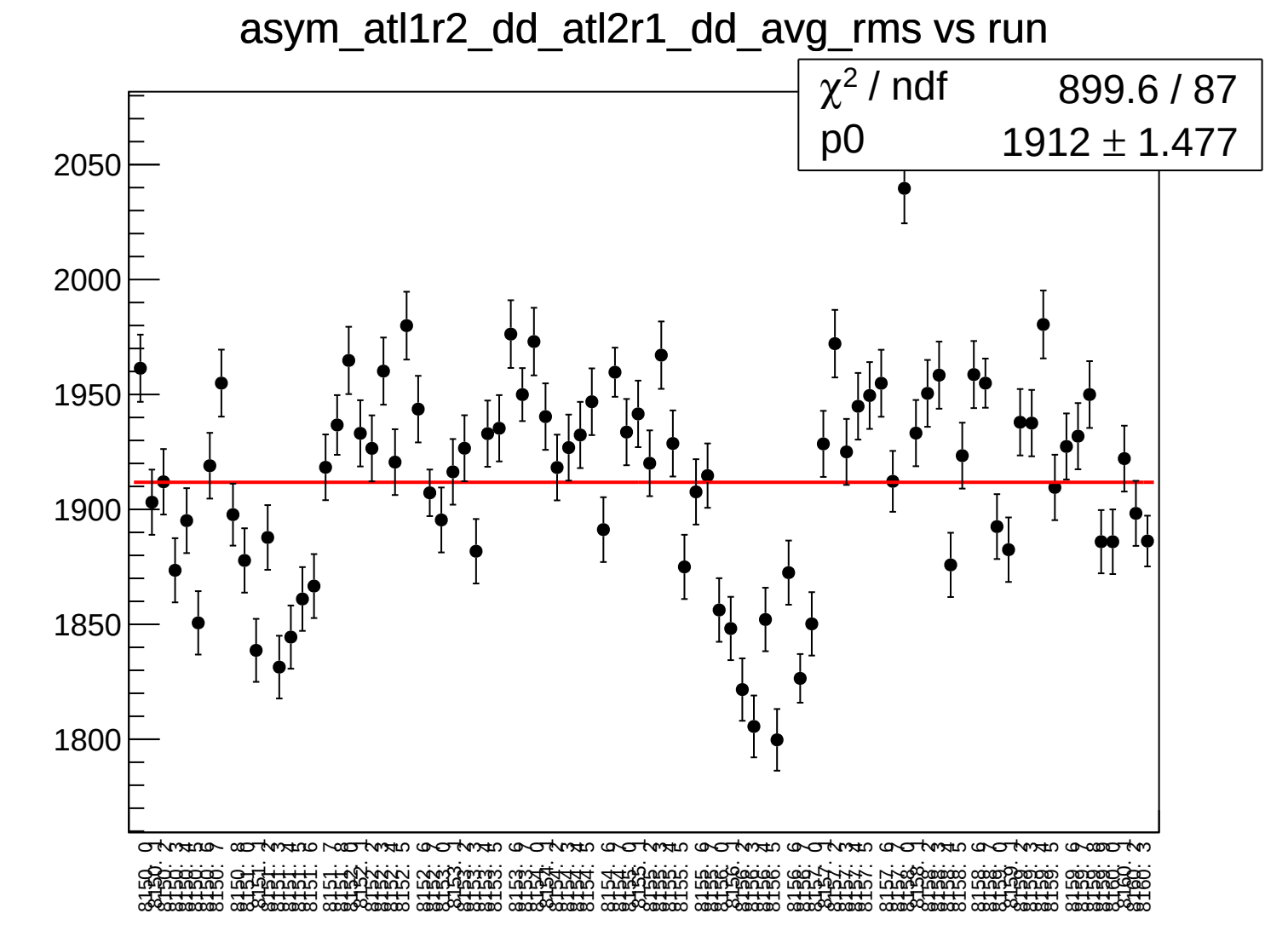

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 106.2 / 87
p0 1461 ± 1553
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −2590
Std Dev 0
2
1
0
−1
−2

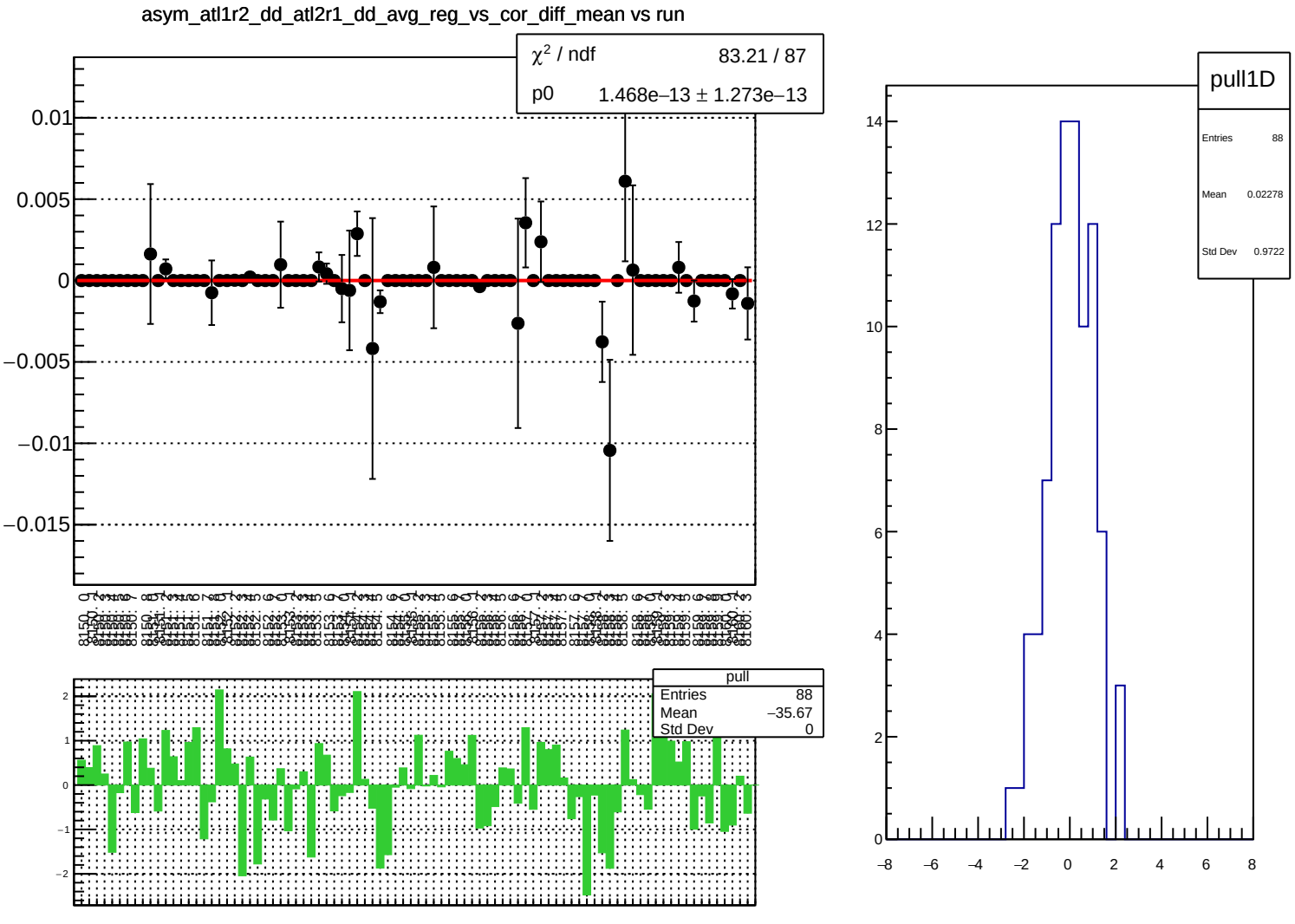

pull1D
Entries 88
Mean −0.0009696
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

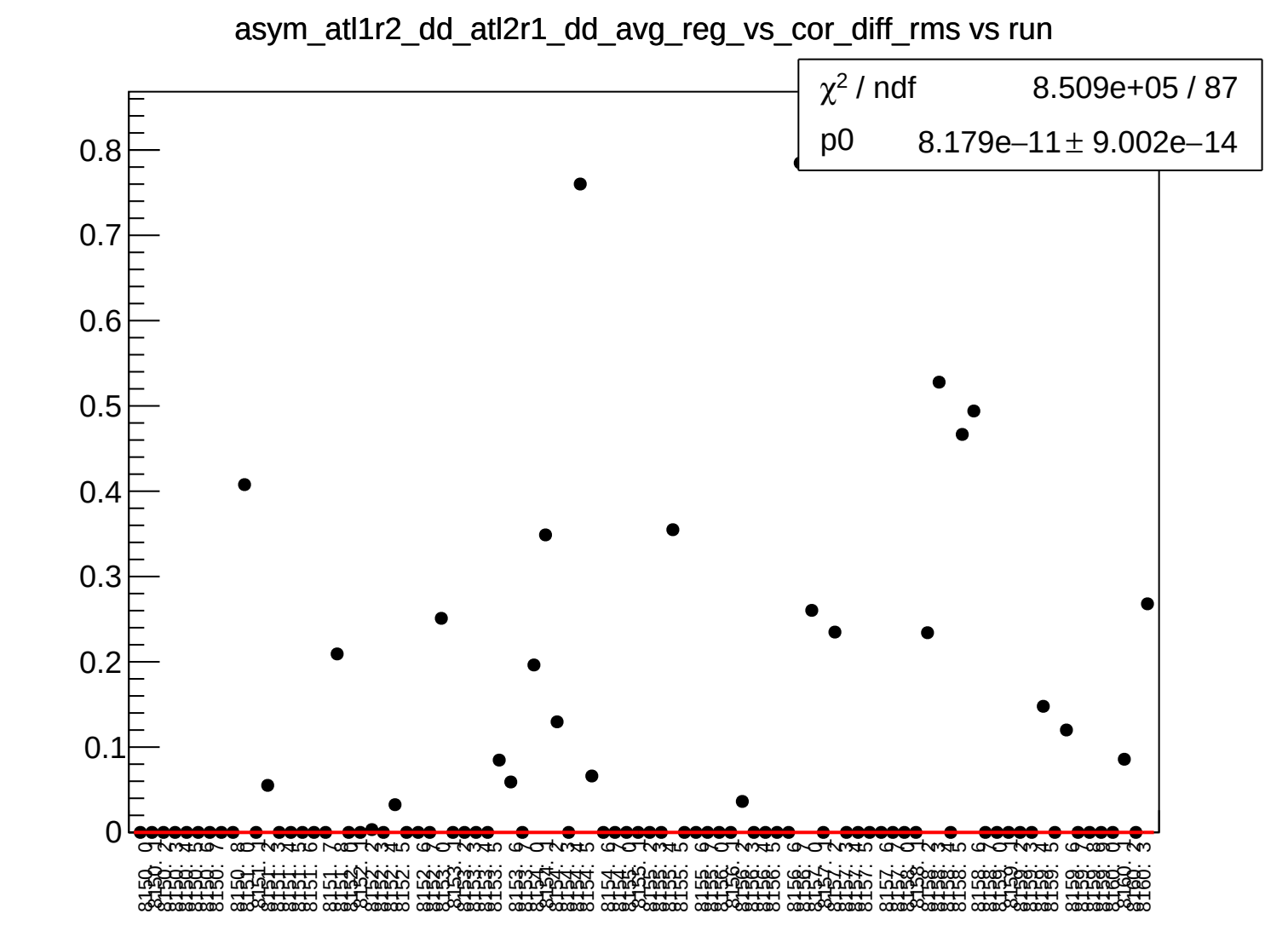

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2373 / 87
p0 1421 ± 1.098
1600
1550
1500
1450
1400
1350
1300
1250

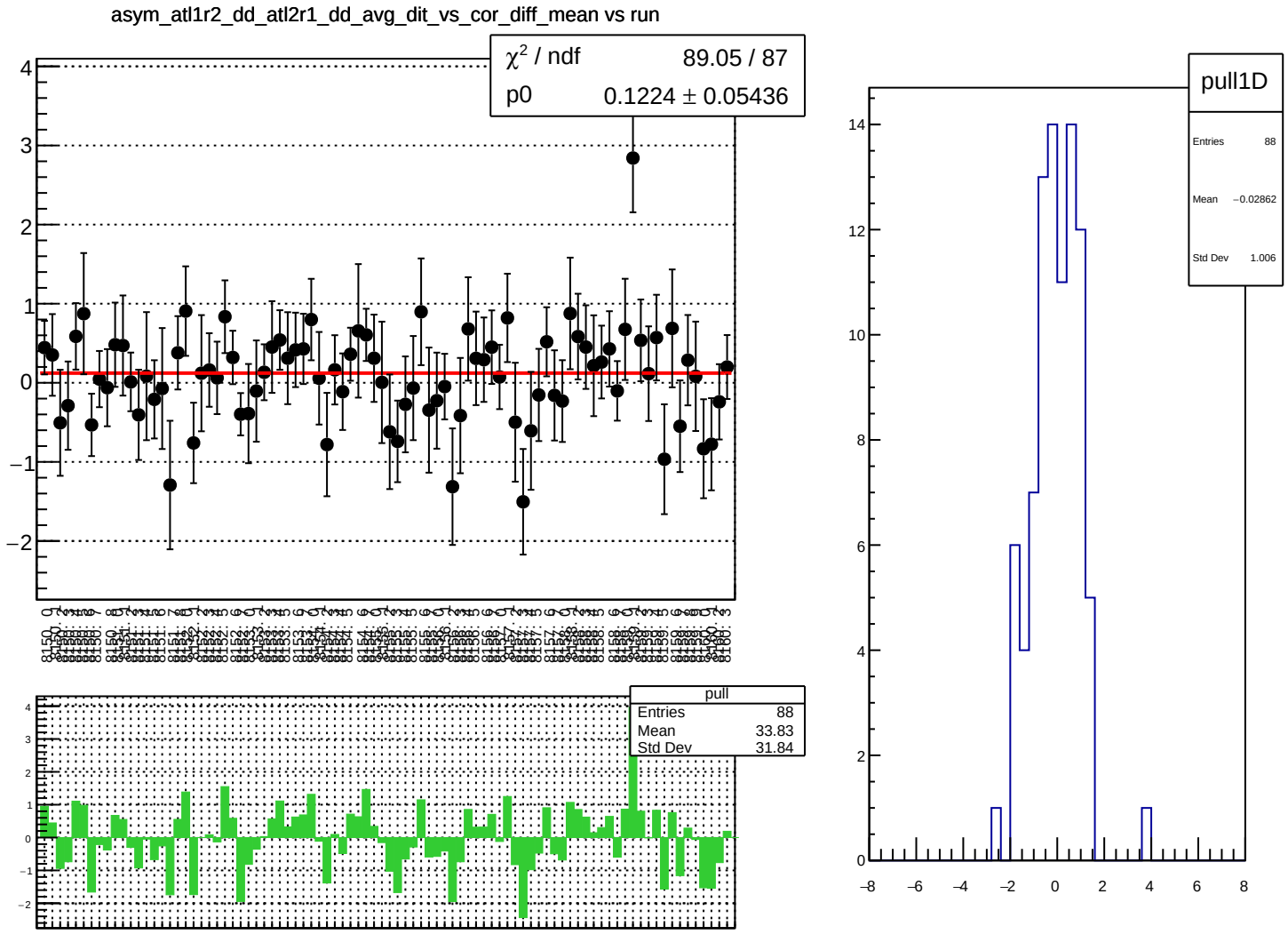

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 100.9 / 87
p0 −42.01± 2089
pull
Entries 88
Mean 211.6
Std Dev 0

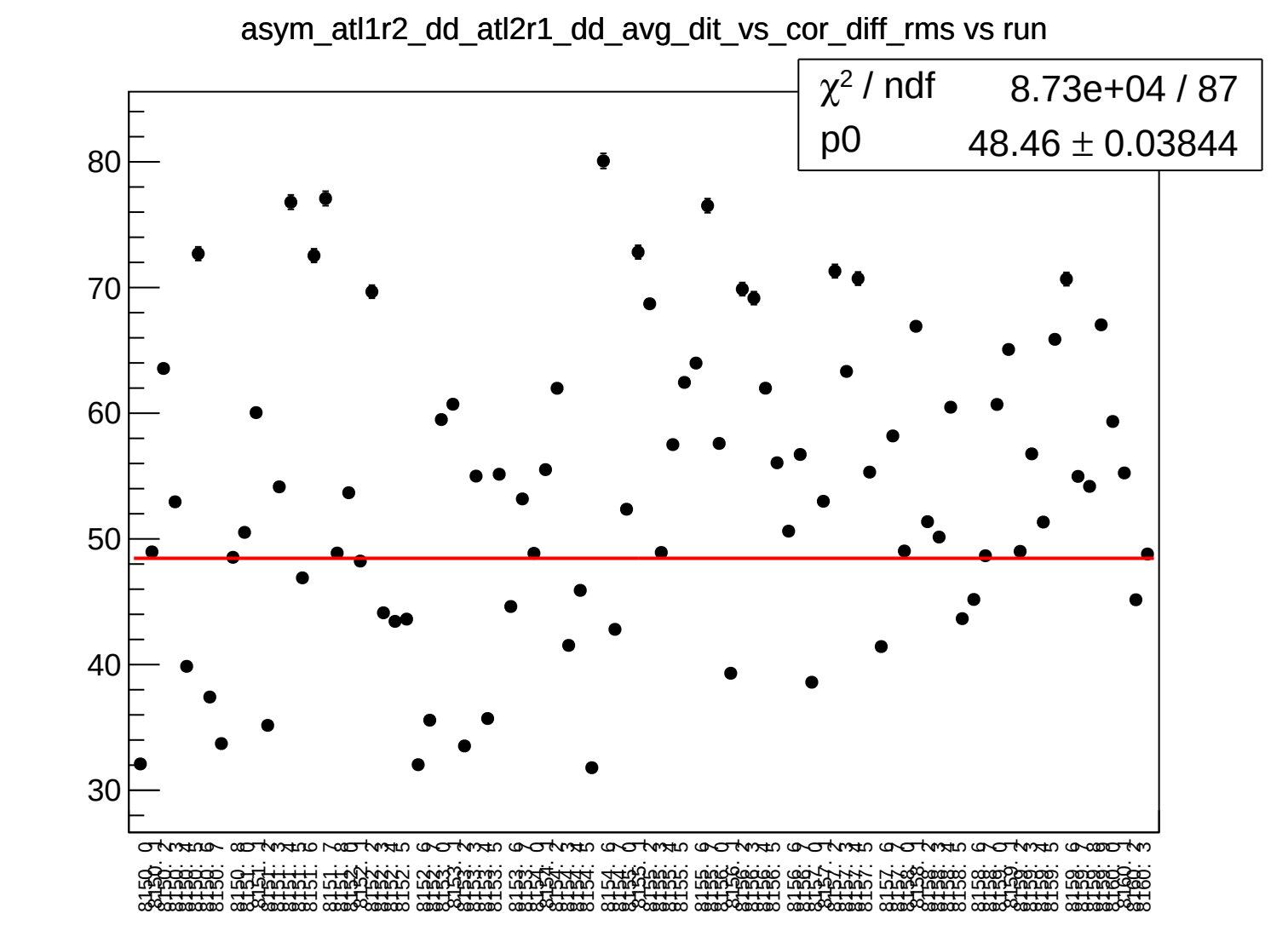

pull1D
Entries 88
Mean −0.01407
Std Dev 1.071

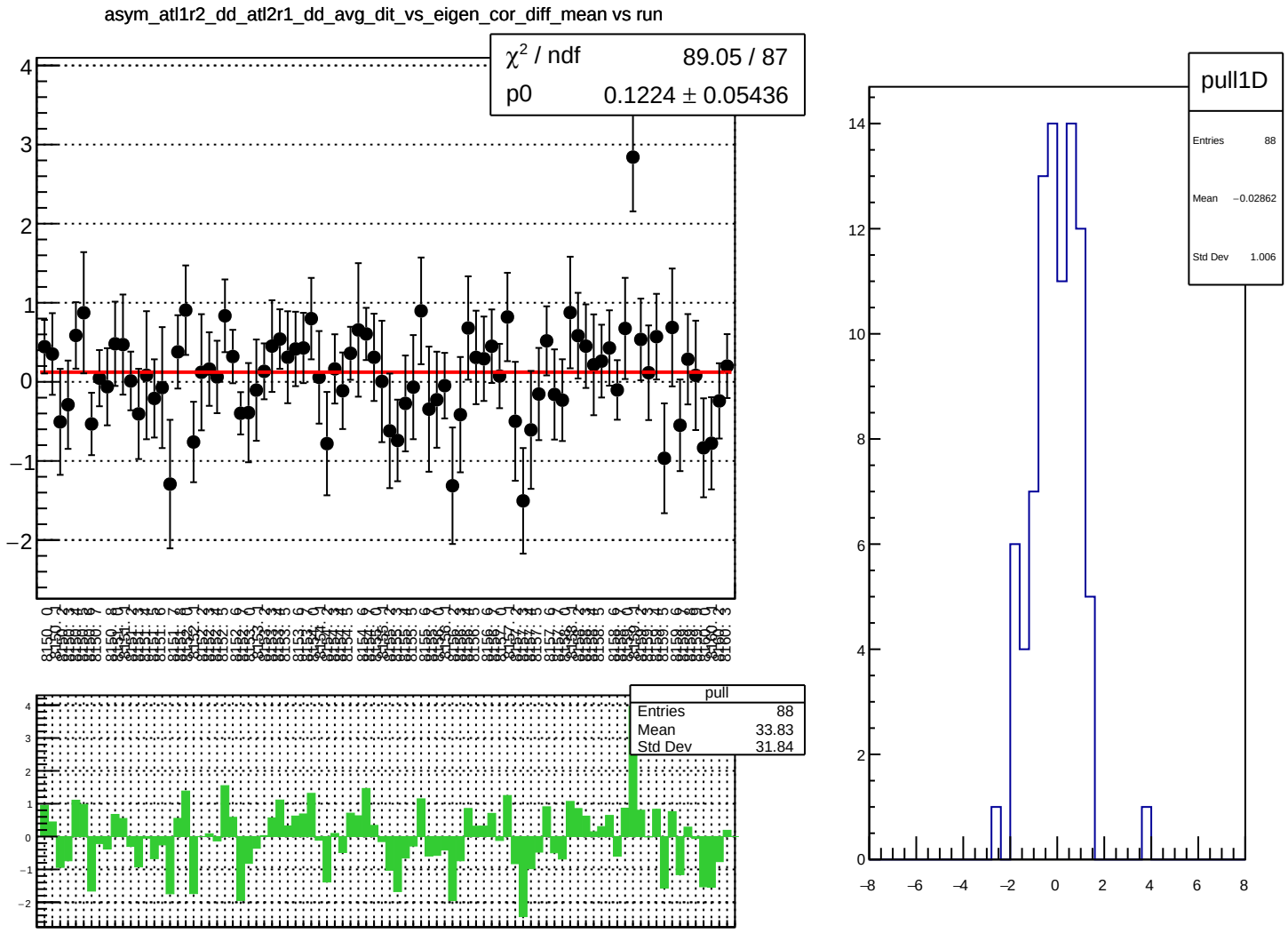

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 899.6 / 87
p0 1912 ± 1.477
2050
2000
1950
1900
1850
1800

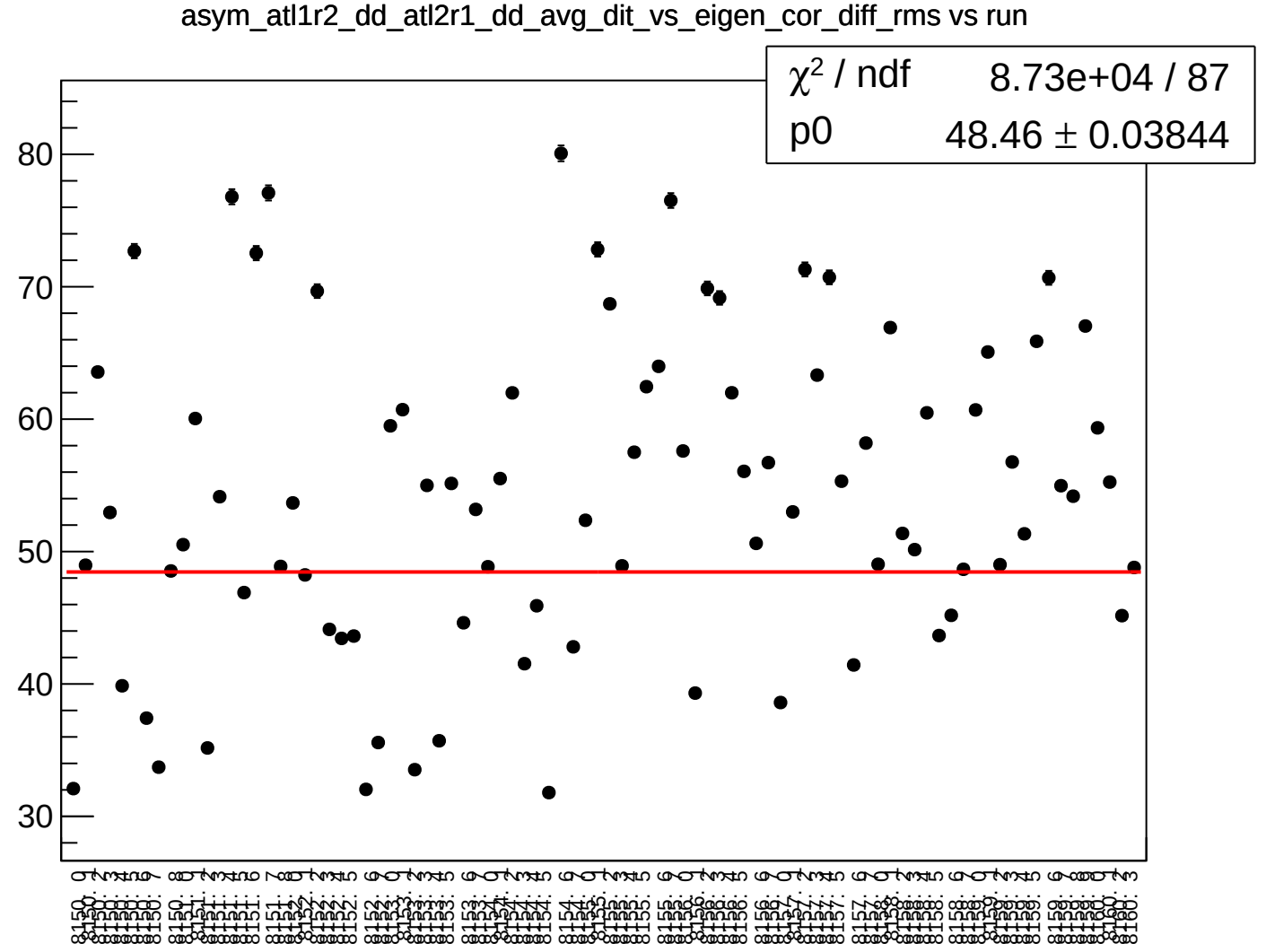

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.21 / 87
p0 1.468e−13 ± 1.273e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean −35.67
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.02278
Std Dev 0.9722
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

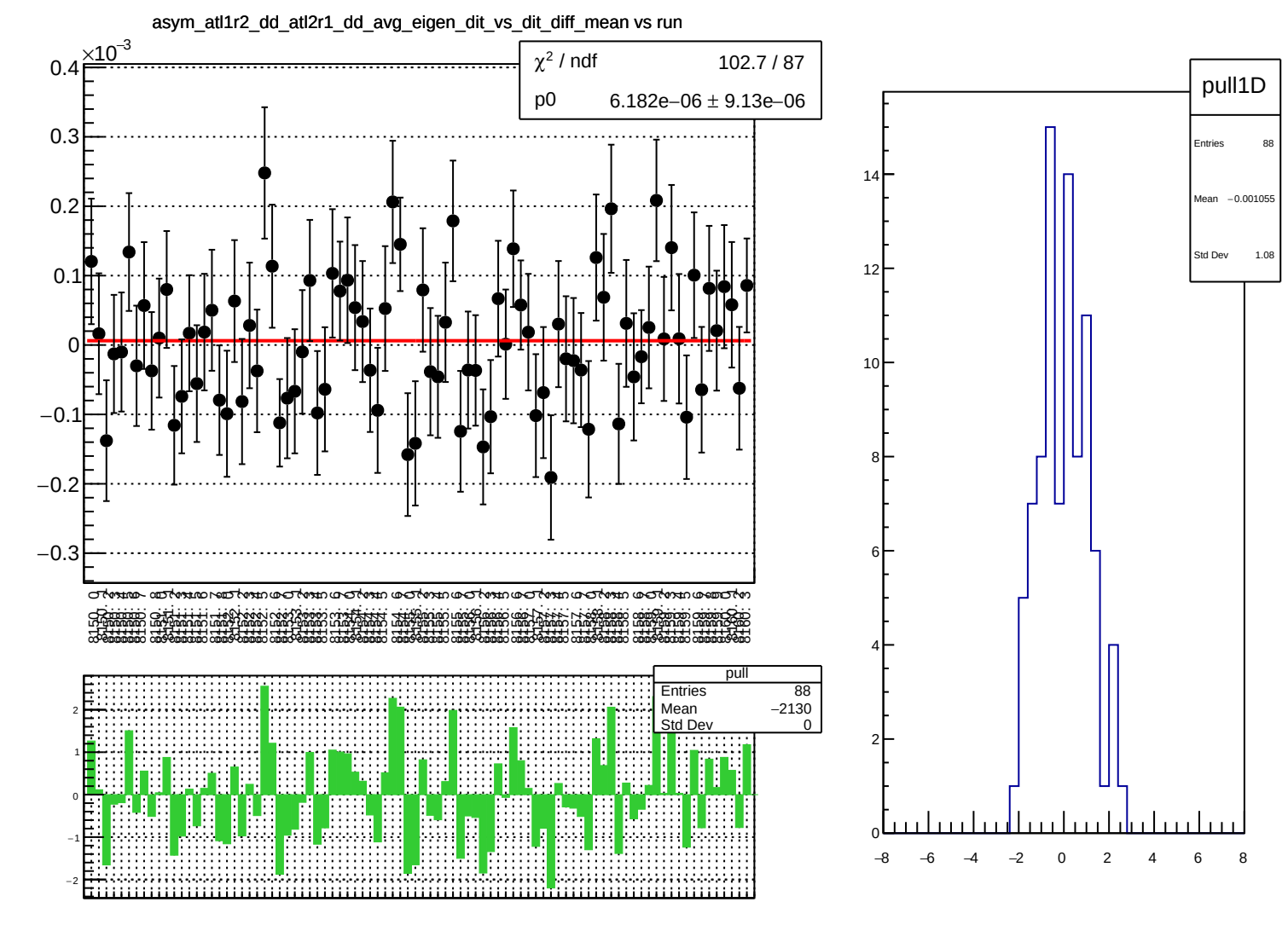

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.509e+05 / 87
p0 8.179e−11 ± 9.002e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

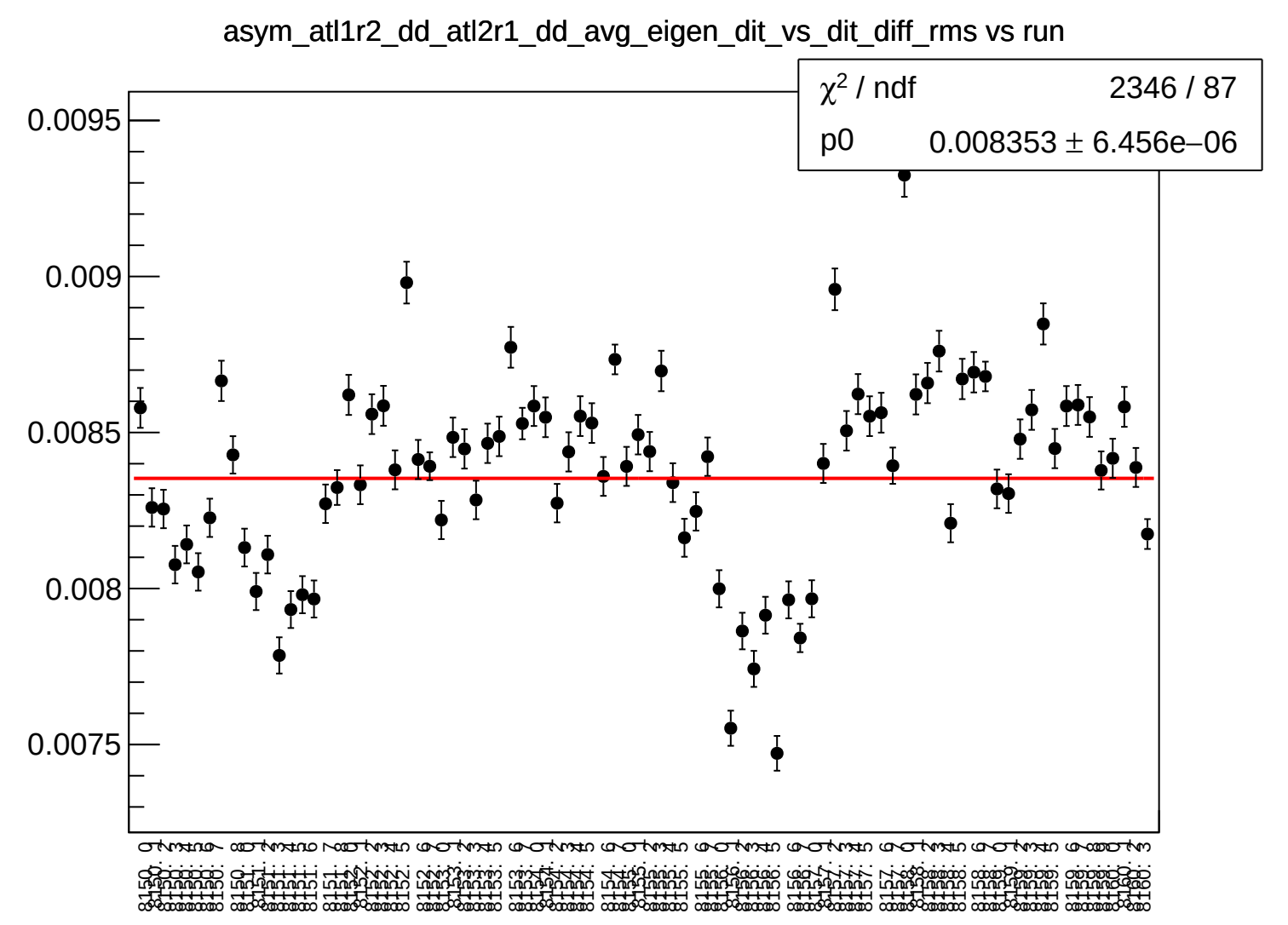

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.05 / 87
p0 0.1224 ± 0.05436
pull
Entries 88
Mean 33.83
Std Dev 31.84
pull1D
Entries 88
Mean −0.02862
Std Dev 1.006

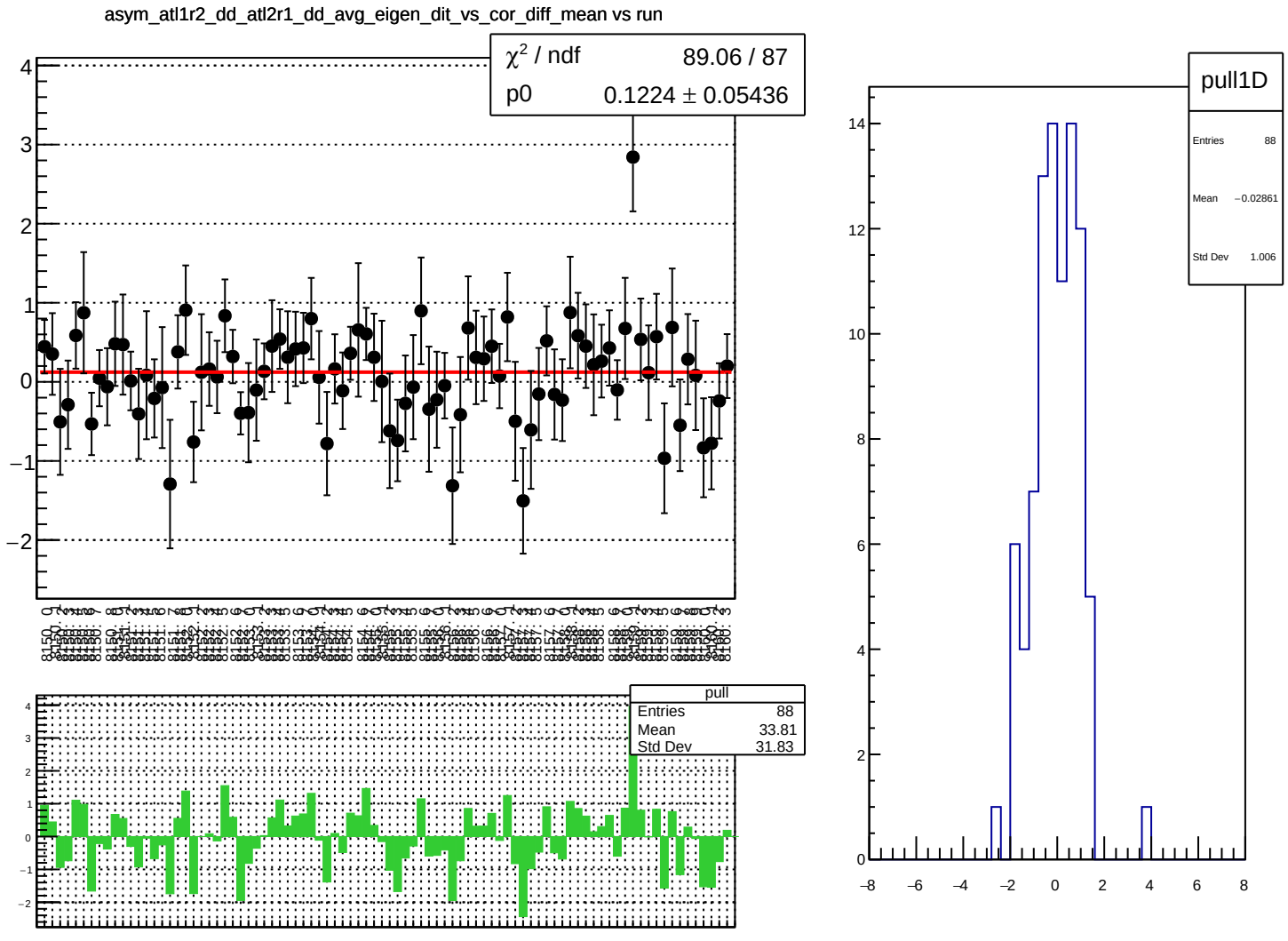

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.73e+04 / 87
p0 48.46 ± 0.03844
80
70
60
50
40
30

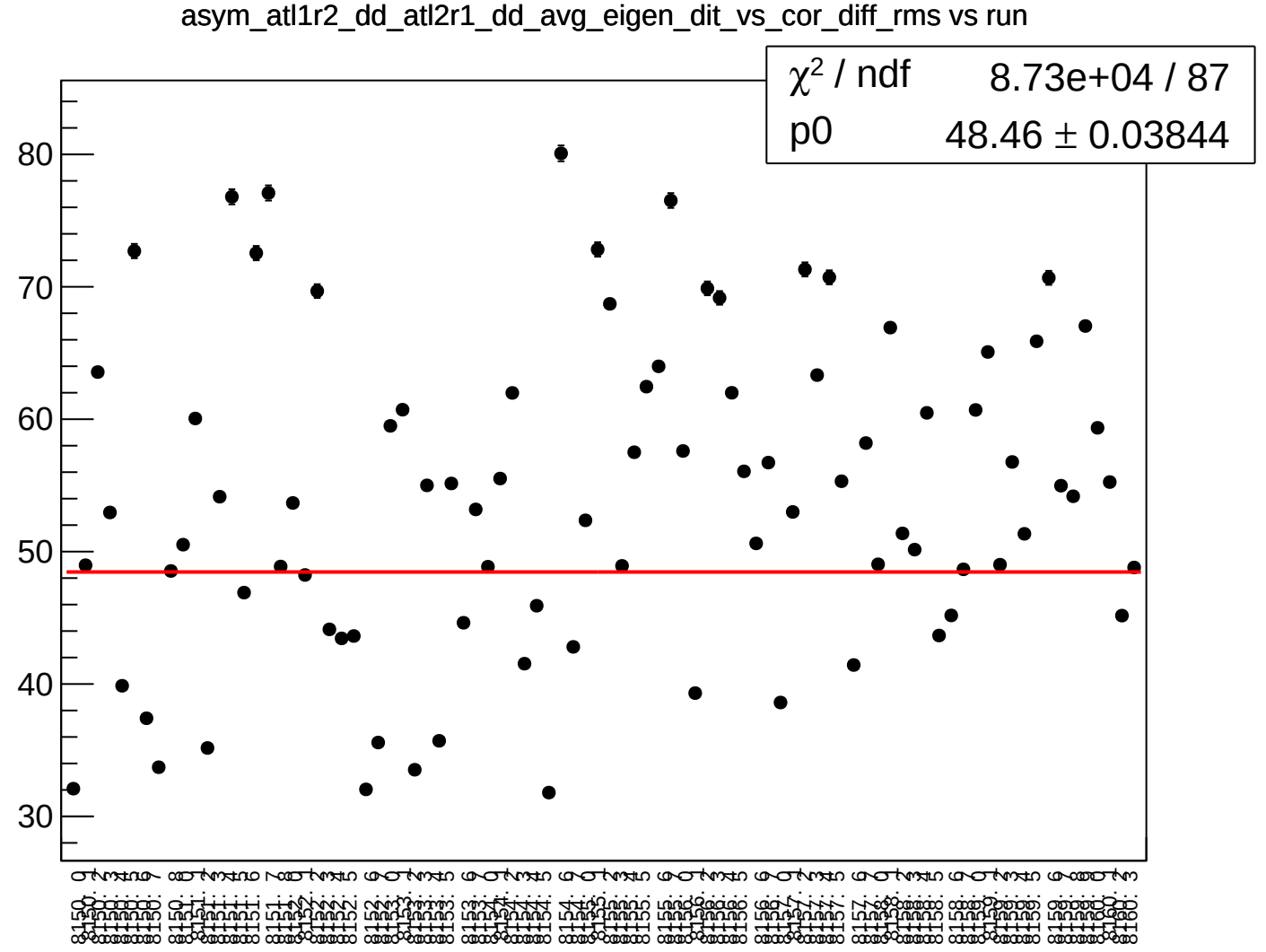

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.05 / 87
p0 0.1224 ± 0.05436
pull
Entries 88
Mean 33.83
Std Dev 31.84
pull1D
Entries 88
Mean −0.02862
Std Dev 1.006

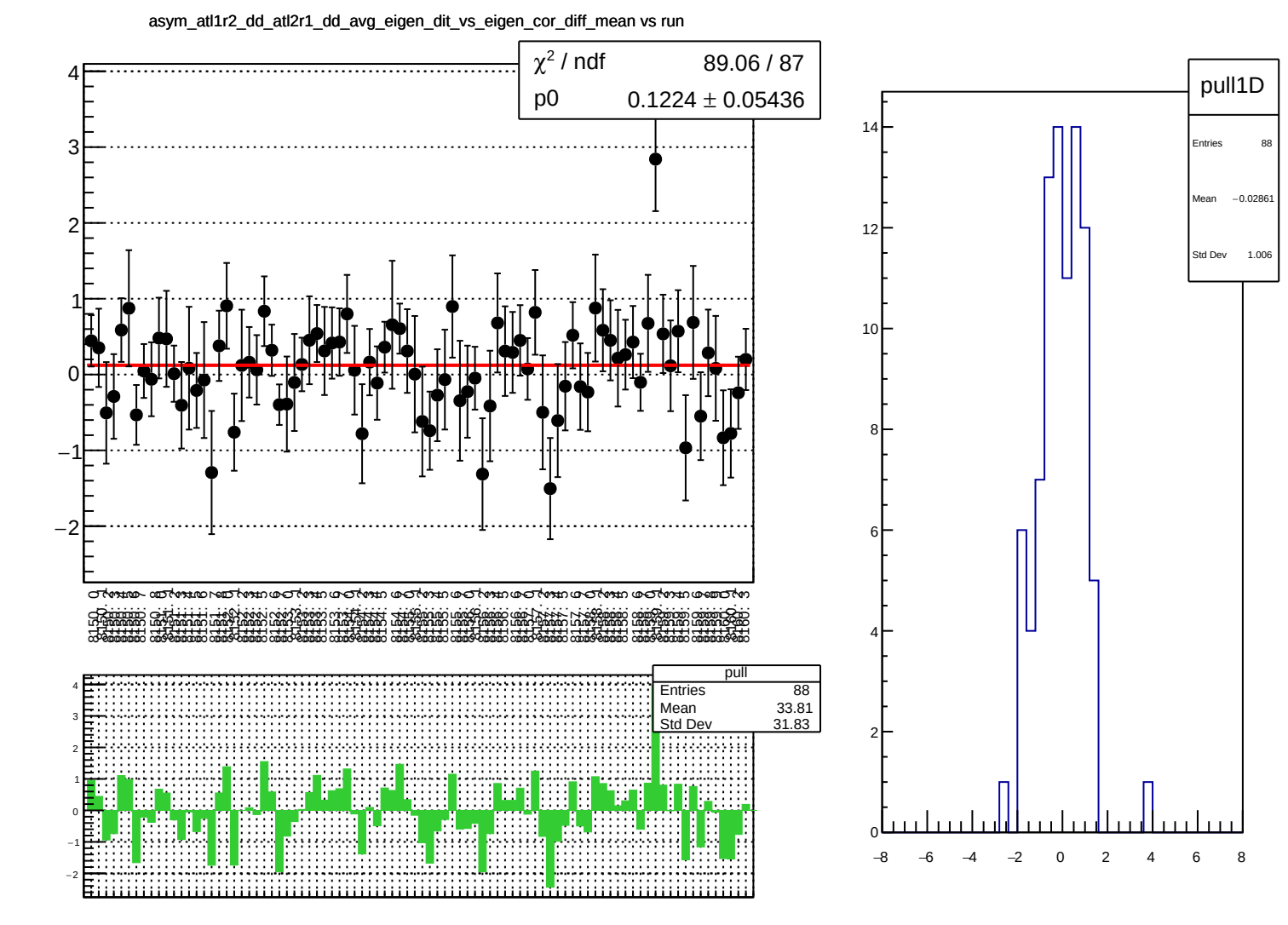

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.73e+04 / 87
p0 48.46 ± 0.03844
80
70
60
50
40
30

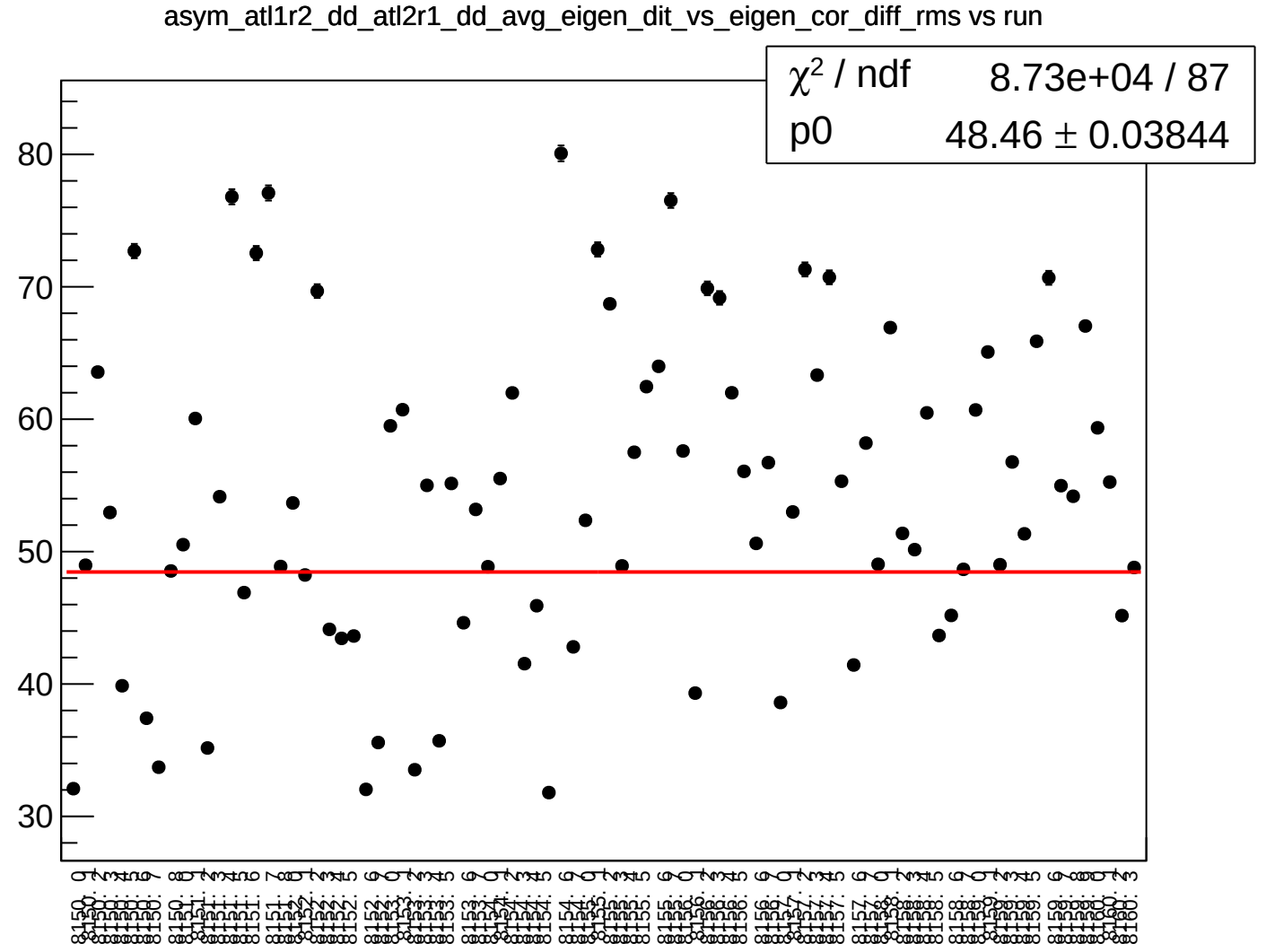

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.7 / 87
p0 6.182e−06 ± 9.13e−06
pull
Entries 88
Mean −2130
Std Dev 0
pull1D
Entries 88
Mean −0.001055
Std Dev 1.08

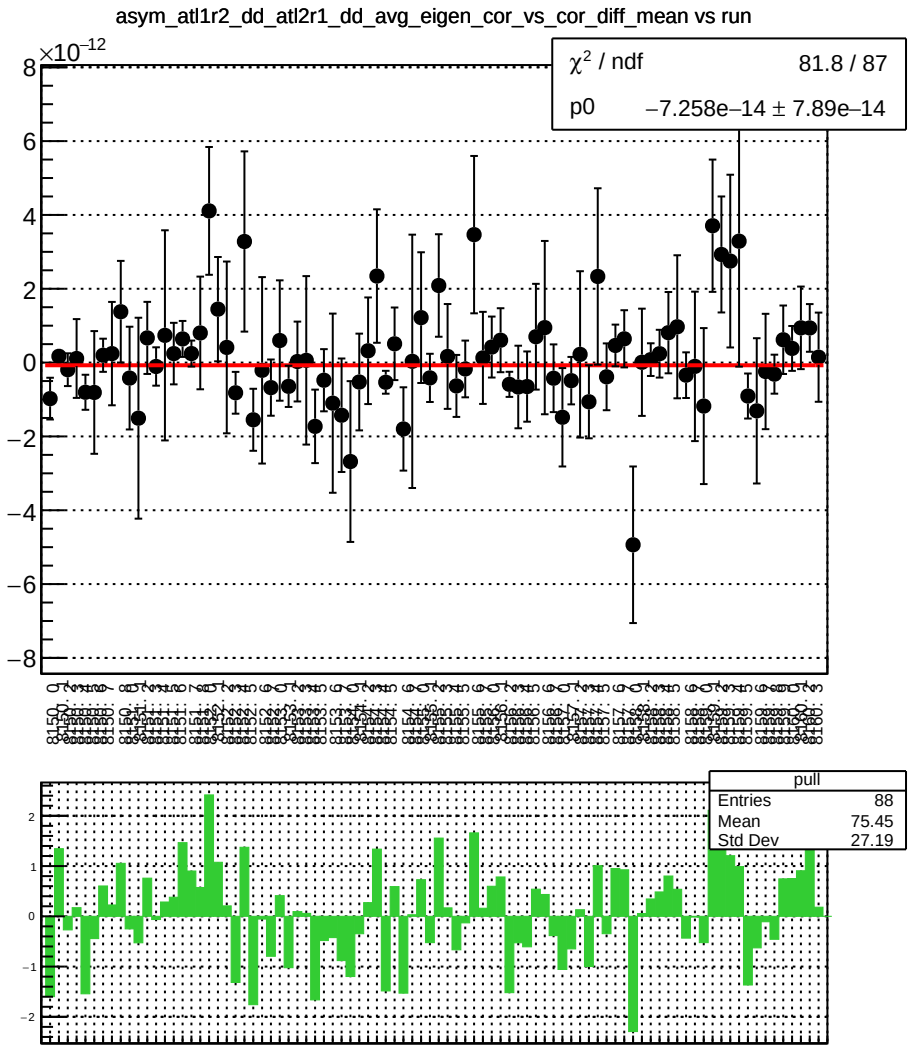

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2346 / 87
p0 0.008353 ± 6.456e−06
0.0095
0.009
0.0085
0.008
0.0075

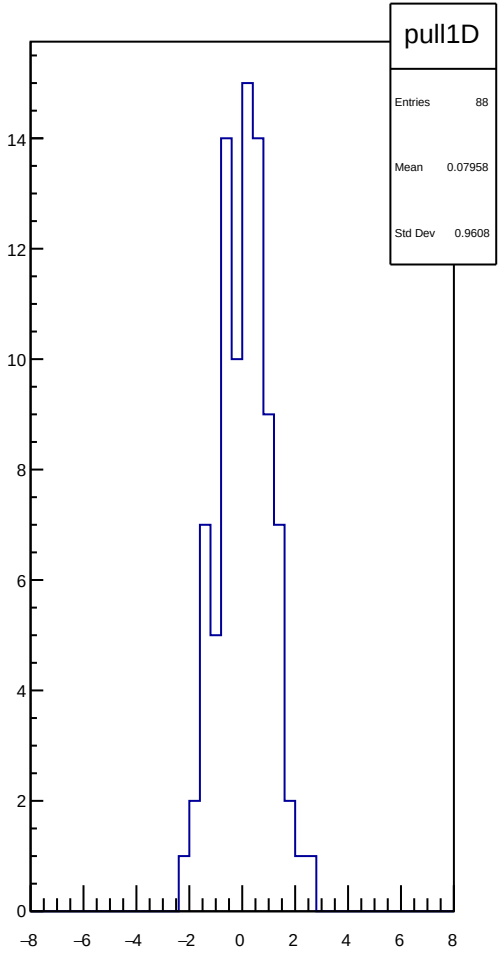

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.06 / 87
p0 0.1224 ± 0.05436
pull
Entries 88
Mean 33.81
Std Dev 31.83
pull1D
Entries 88
Mean −0.02861
Std Dev 1.006

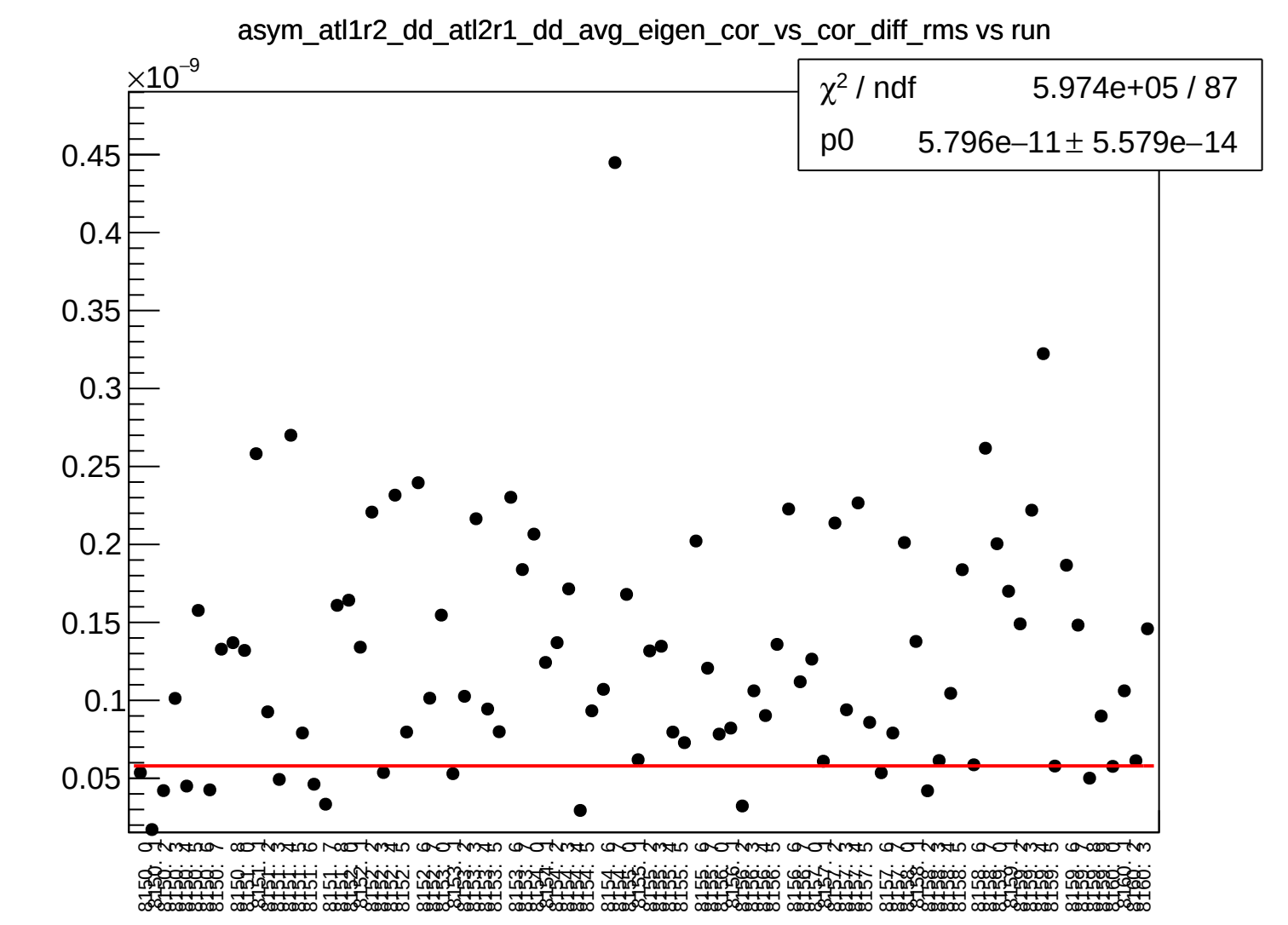

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.73e+04 / 87
p0 48.46 ± 0.03844
80
70
60
50
40
30

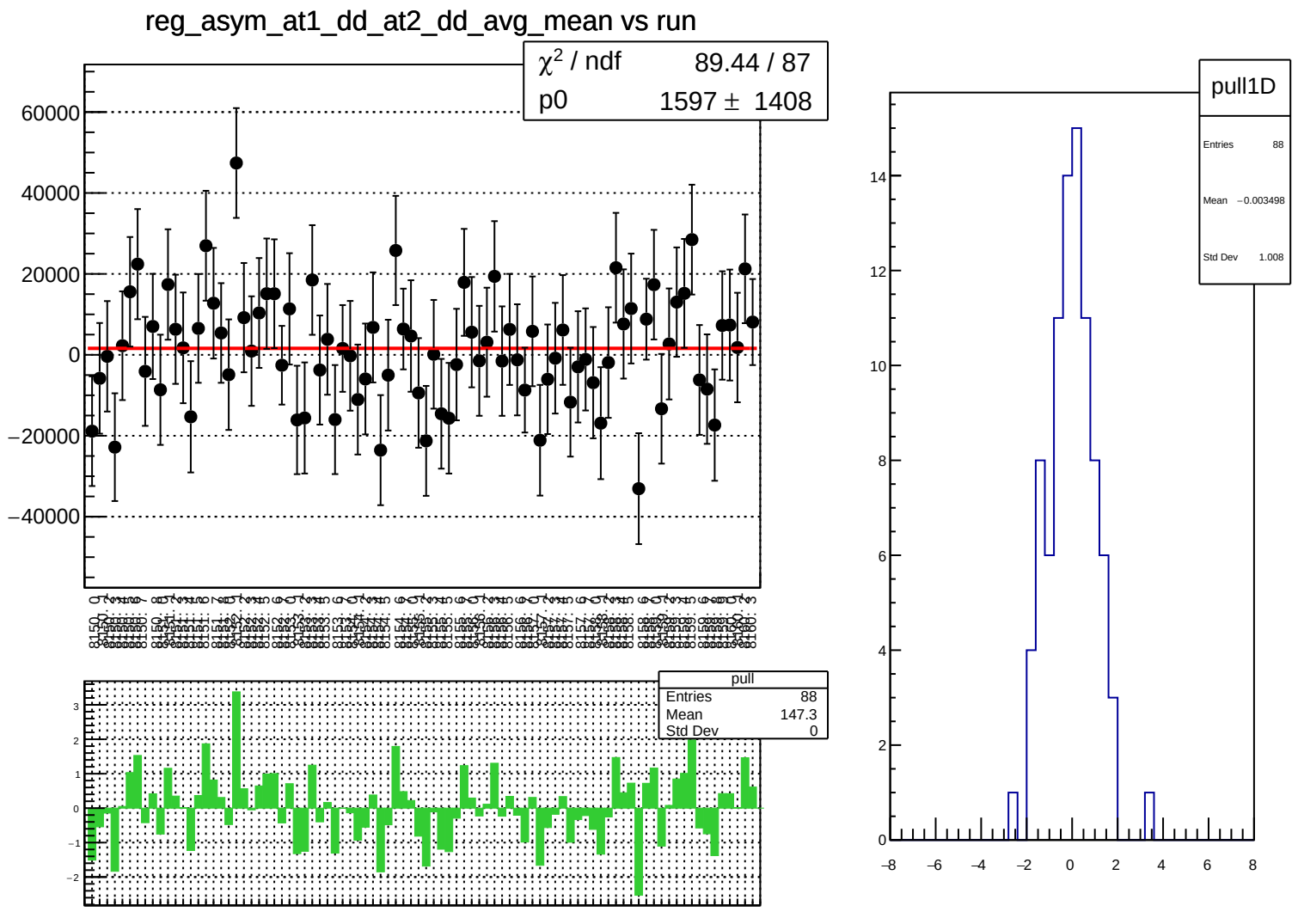

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.06 / 87
p0 0.1224 ± 0.05436
pull
Entries 88
Mean 33.81
Std Dev 31.83
pull1D
Entries 88
Mean −0.02861
Std Dev 1.006

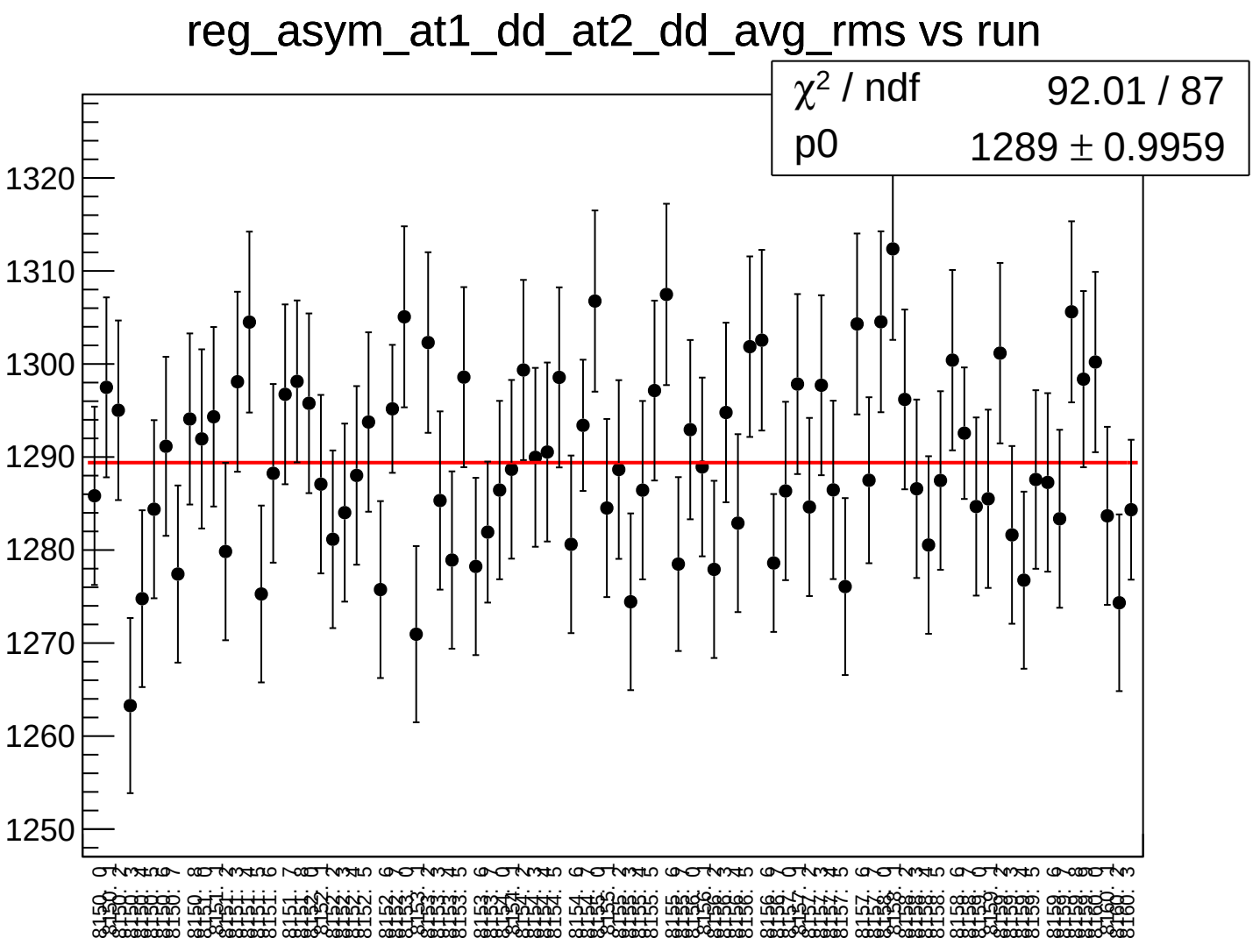

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.73e+04 / 87
p0 48.46 ± 0.03844
80
70
60
50
40
30

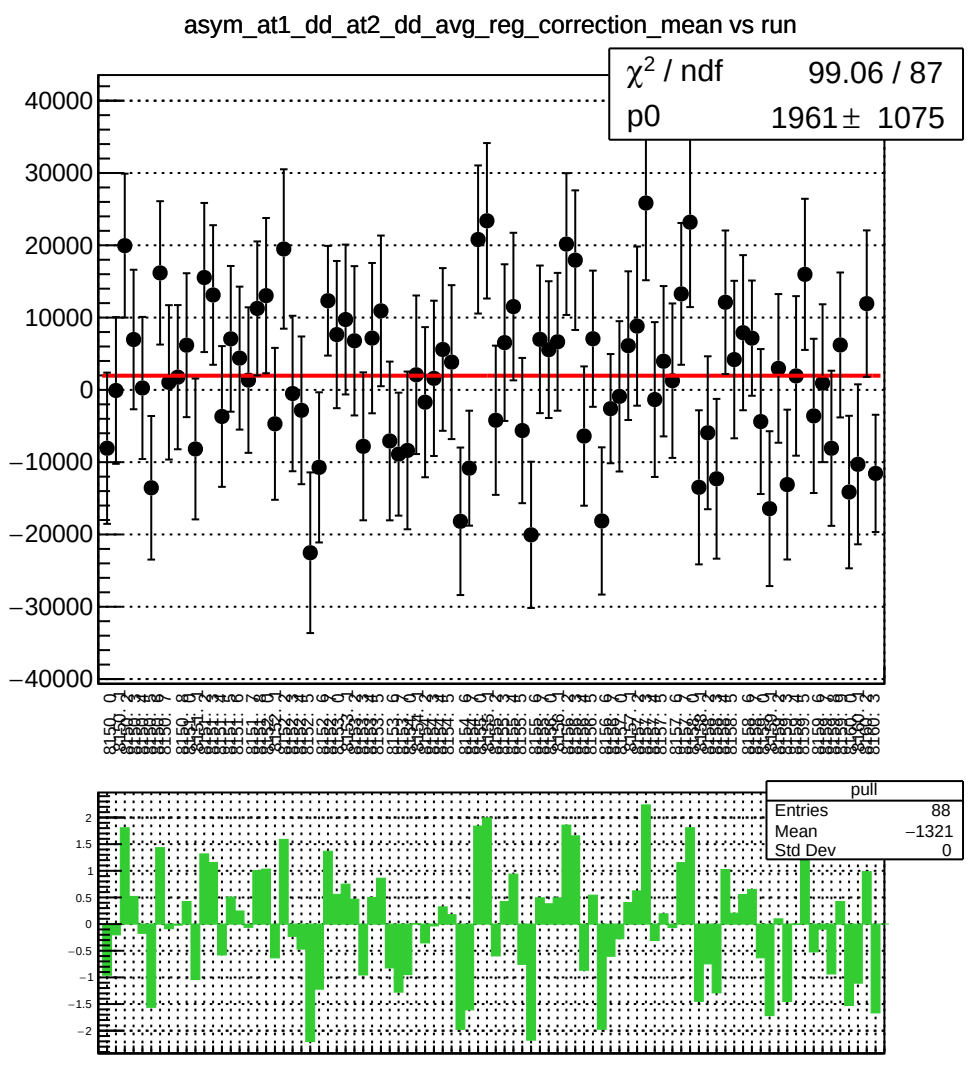

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.8 / 87
p0 −7.258e−14 ± 7.89e−14
pull
Entries 88
Mean 75.45
Std Dev 27.19

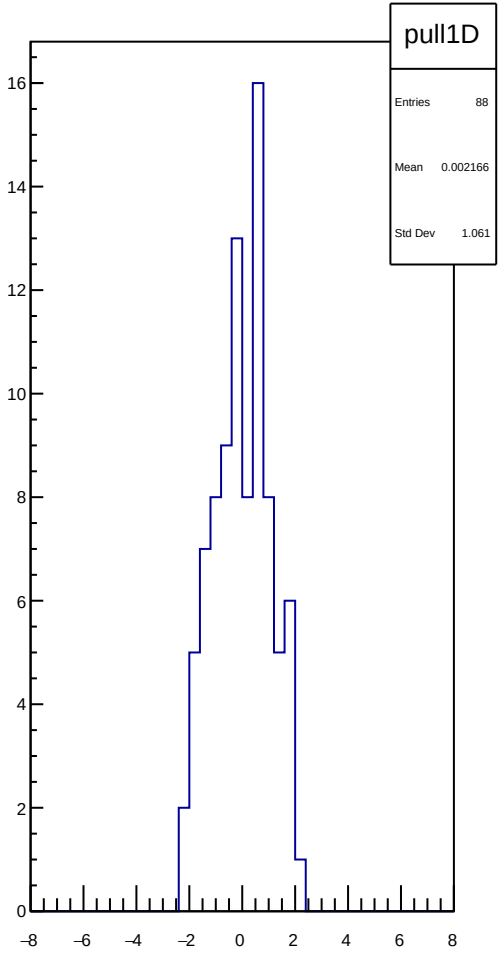

pull1D
Entries 88
Mean 0.07958
Std Dev 0.9608

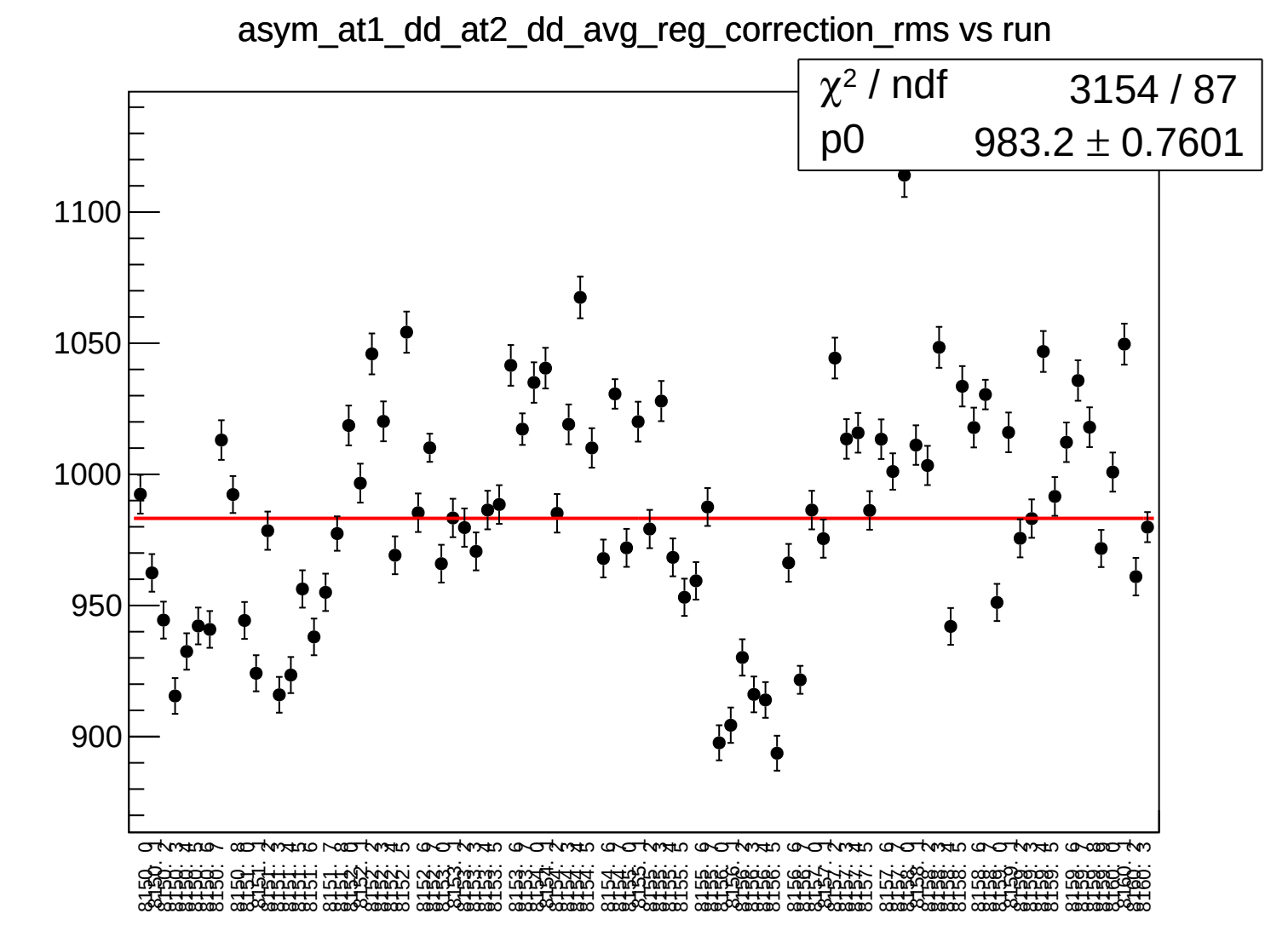

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.974e+05 / 87
p0 5.796e−11 ± 5.579e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

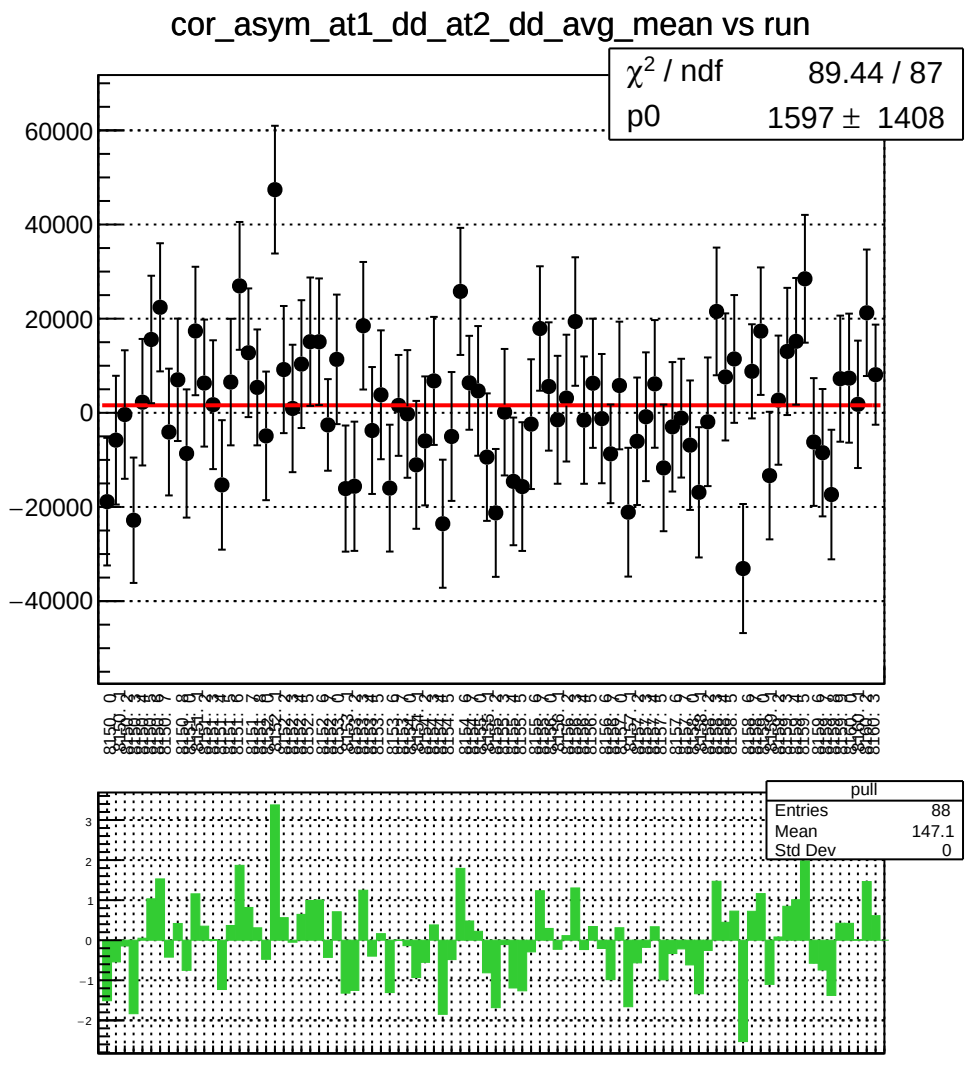

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.44 / 87
p0 1597 ± 1408
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 147.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003498
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

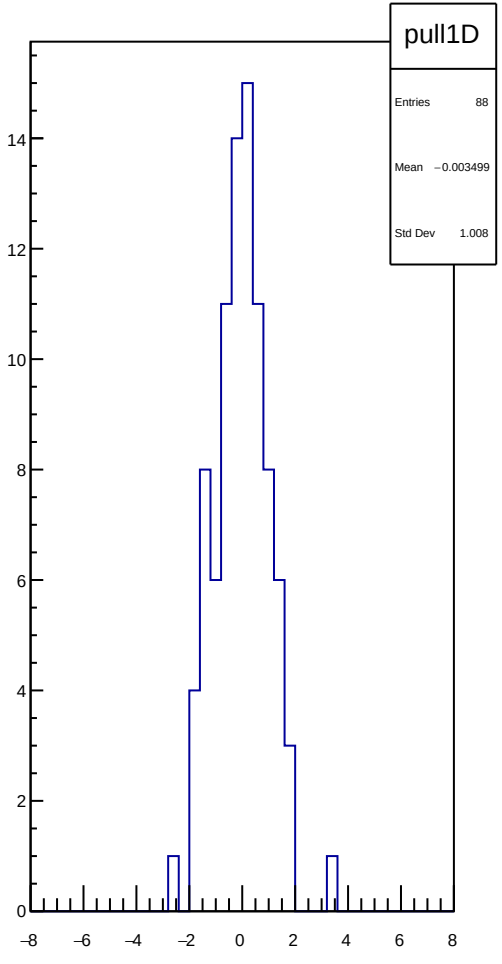

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 92.01 / 87
p0 1289 ± 0.9959
1320
1310
1300
1290
1280
1270
1260
1250

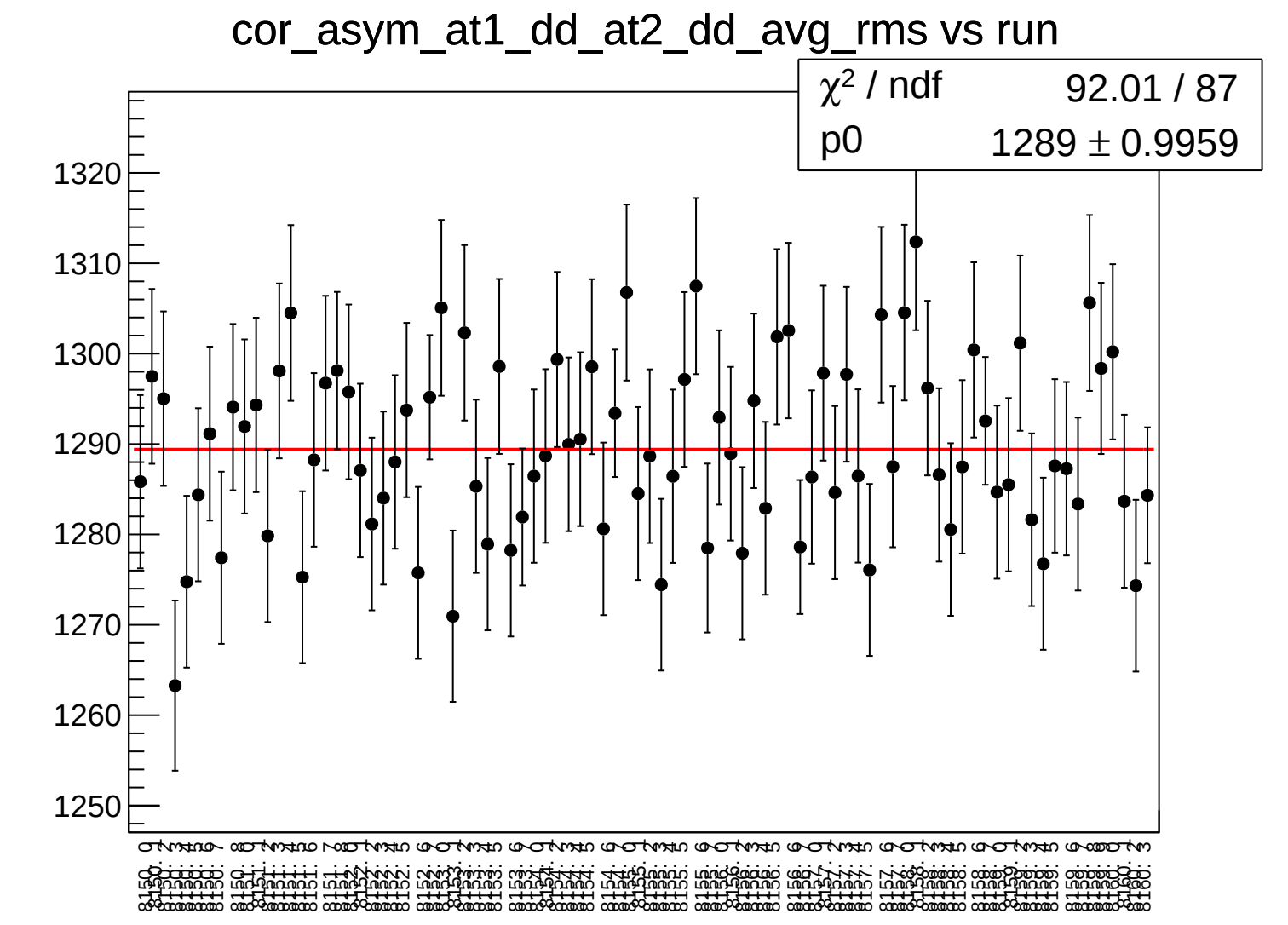

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 99.06 / 87
p0 1961 ± 1075
pull
Entries 88
Mean −1321
Std Dev 0

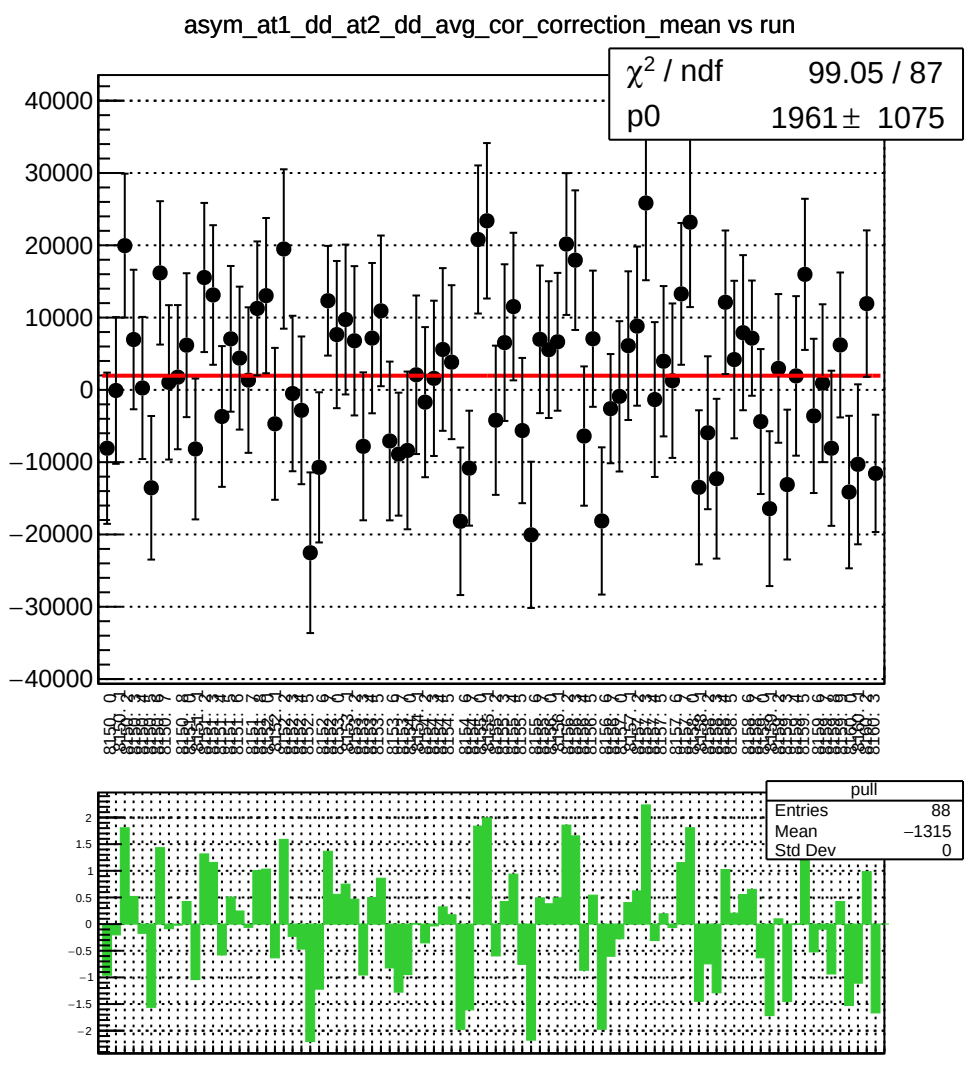

pull1D
Entries 88
Mean 0.002166
Std Dev 1.061

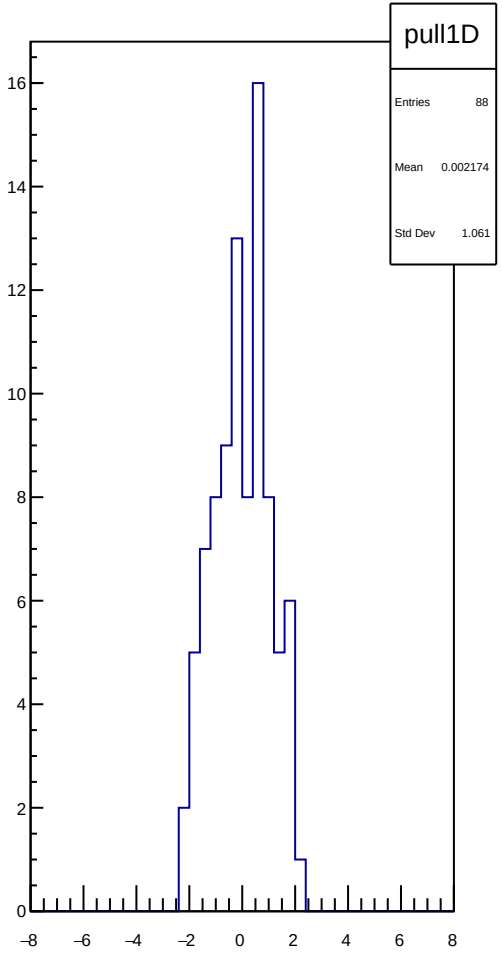

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 3154 / 87
p0 983.2 ± 0.7601
1100
1050
1000
950
900

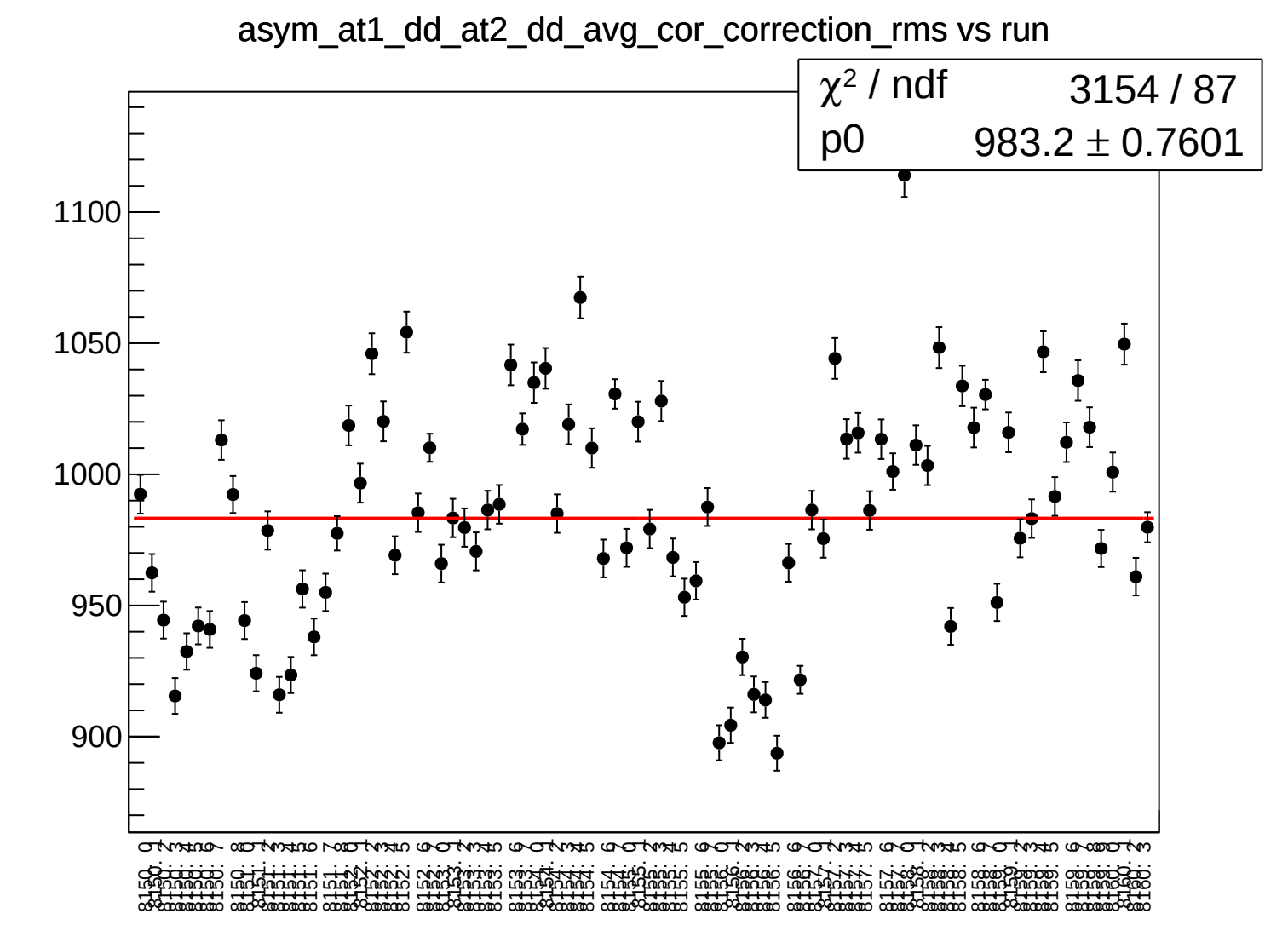

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.44 / 87
p0 1597 ± 1408
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 147.1
Std Dev 0
3
2
1
0
−1
−2

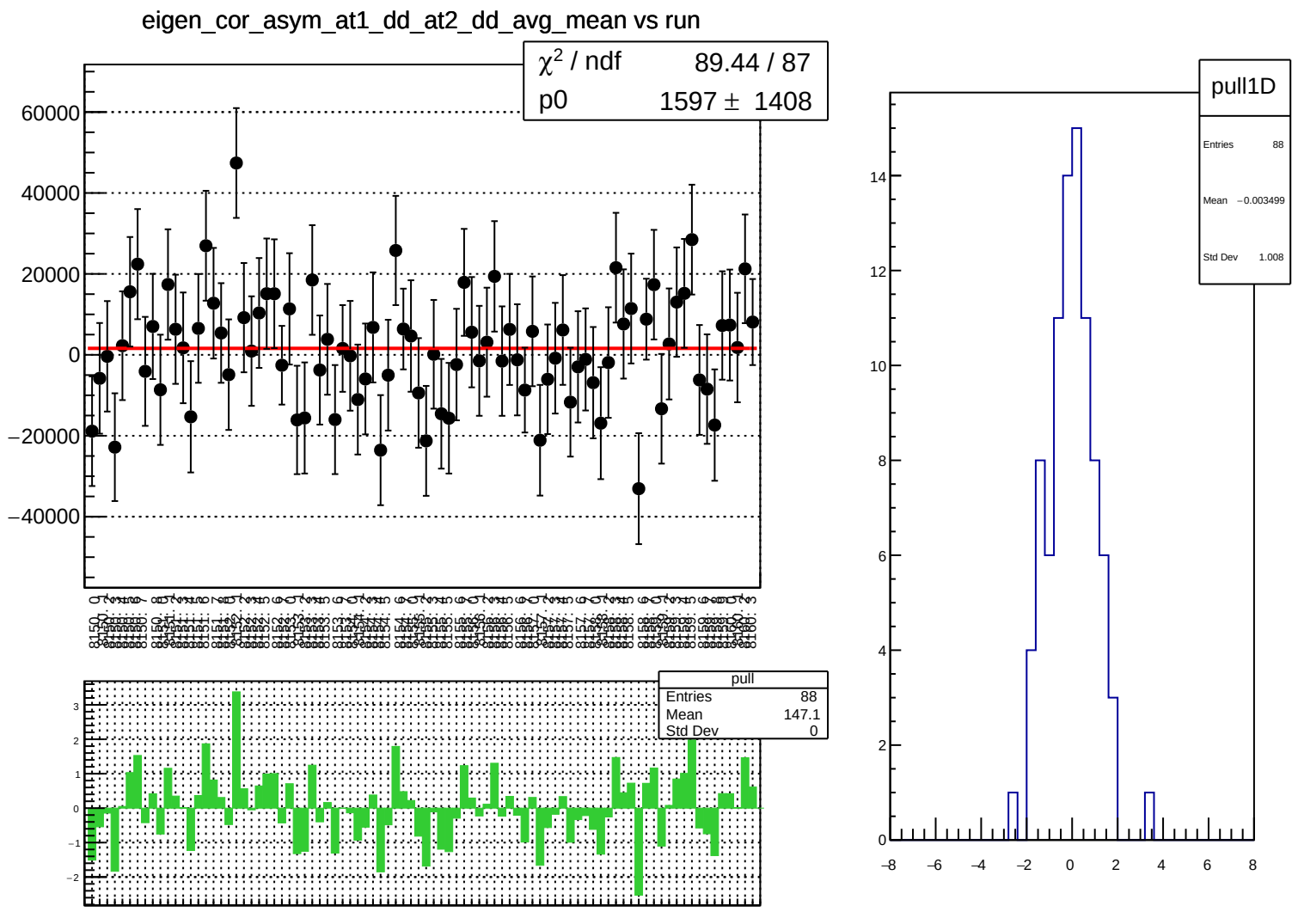

pull1D
Entries 88
Mean −0.003499
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

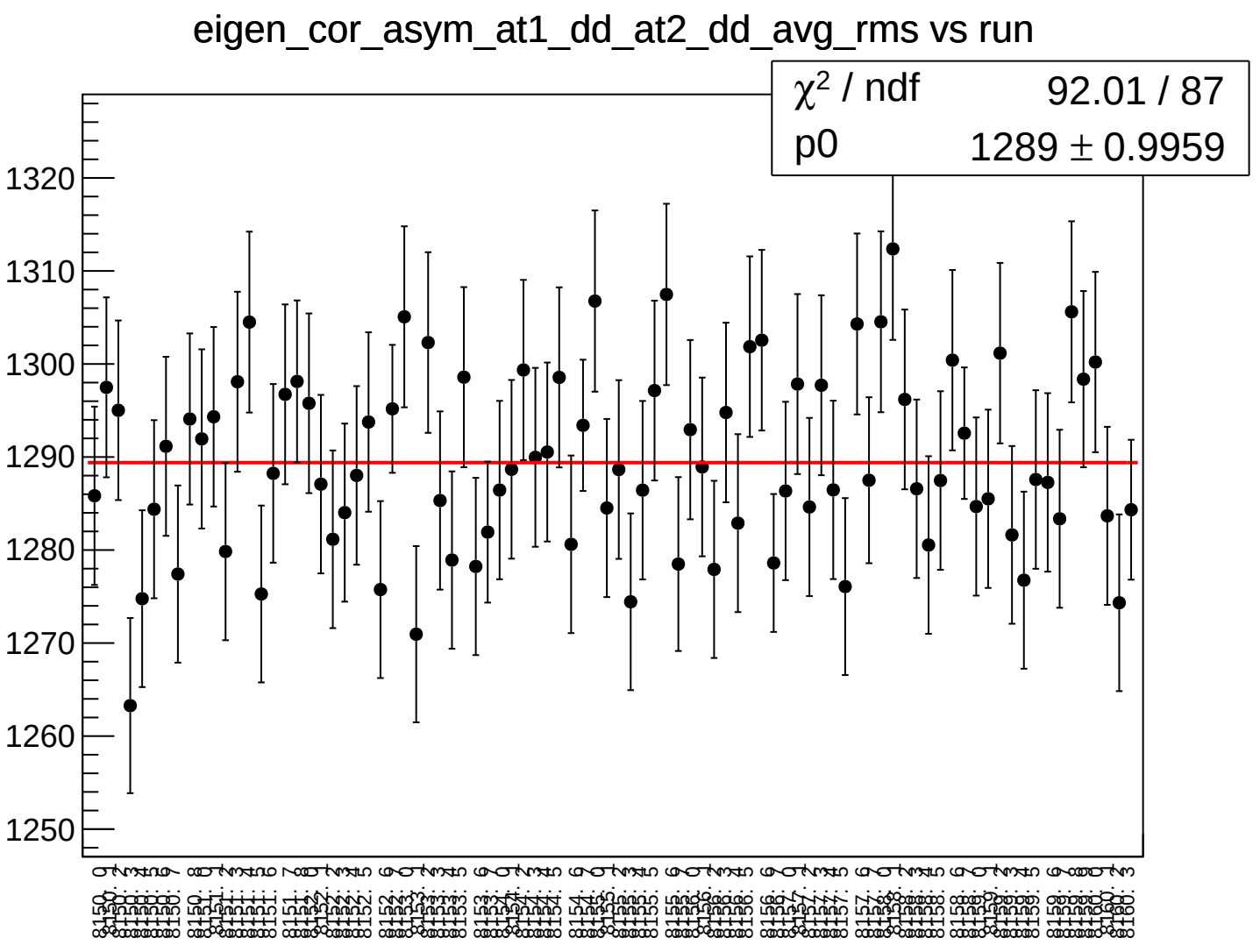

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 92.01 / 87
p0 1289 ± 0.9959
1320
1310
1300
1290
1280
1270
1260
1250

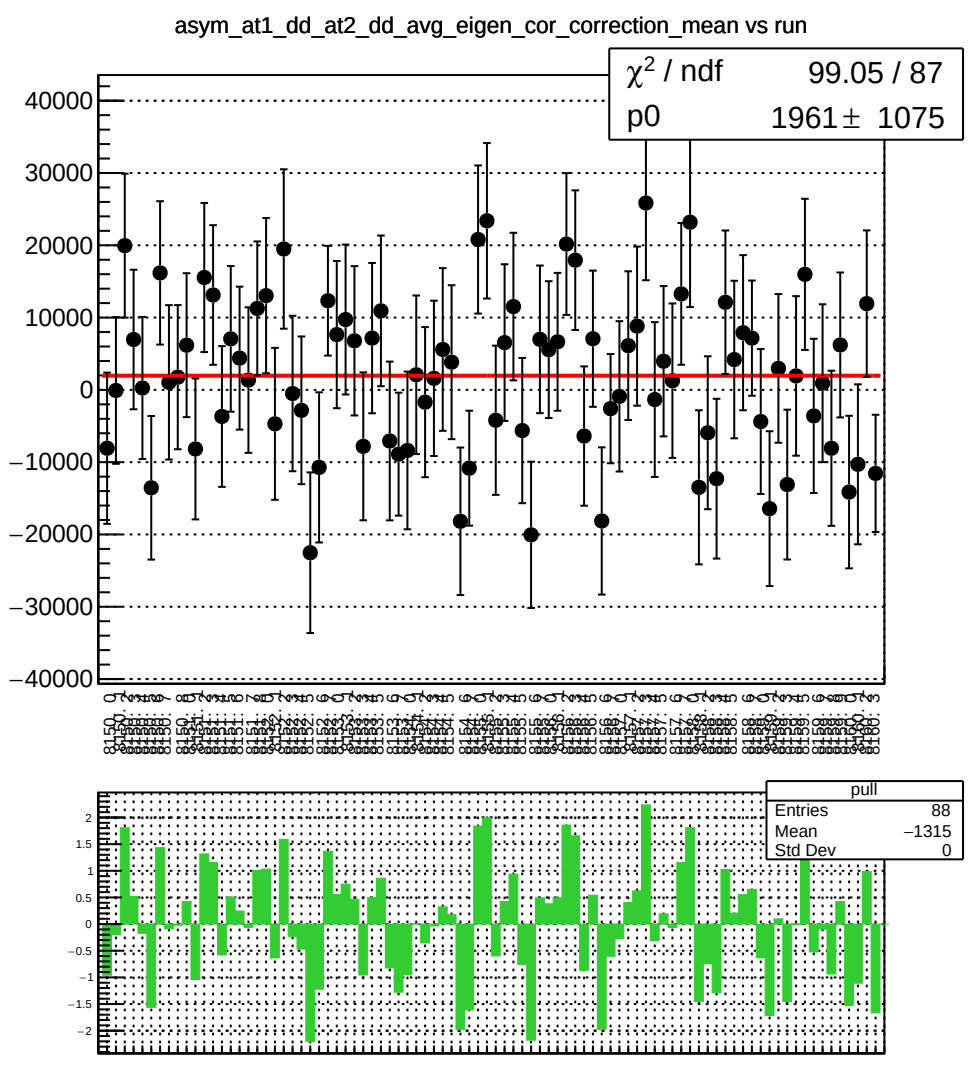

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 99.05 / 87
p0 1961 ± 1075
pull
Entries 88
Mean −1315
Std Dev 0

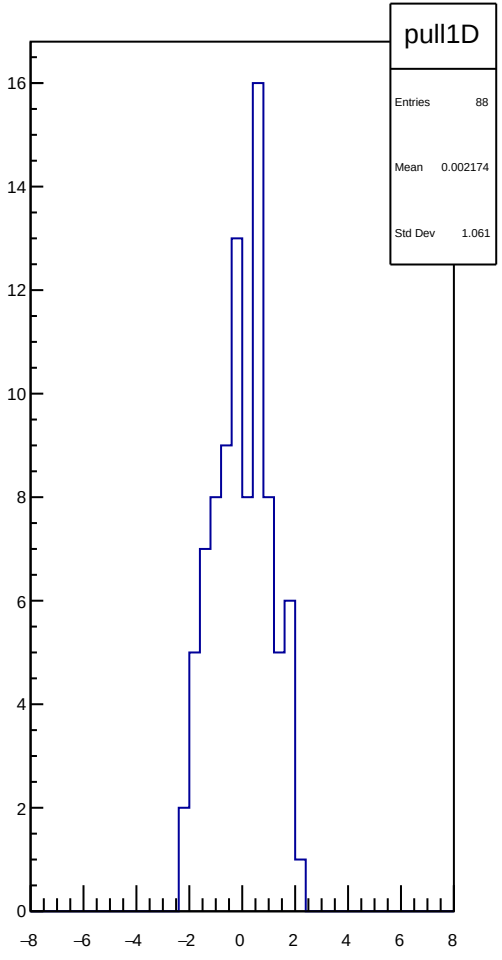

pull1D
Entries 88
Mean 0.002174
Std Dev 1.061

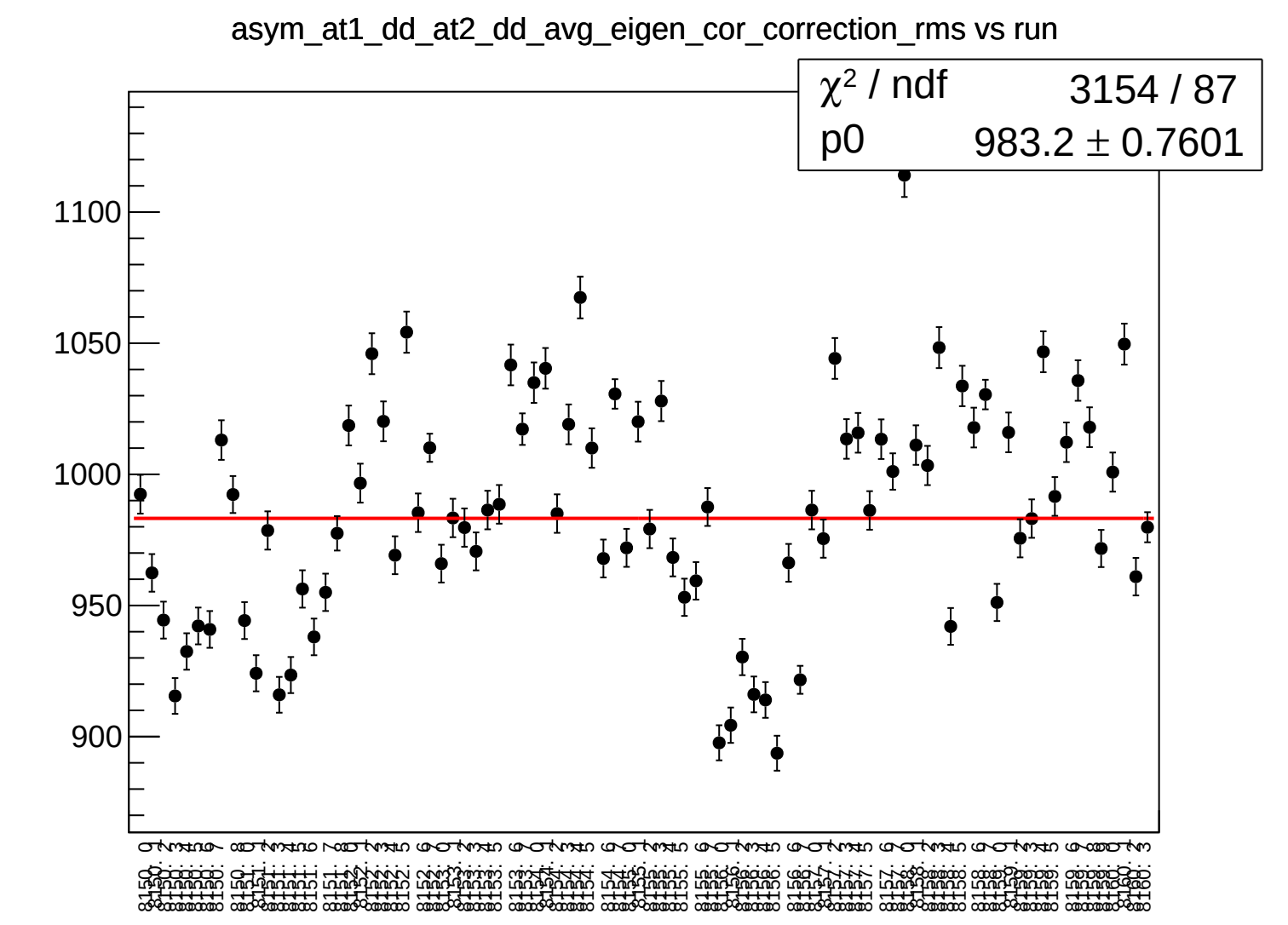

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 3154 / 87
p0 983.2 ± 0.7601
1100
1050
1000
950
900

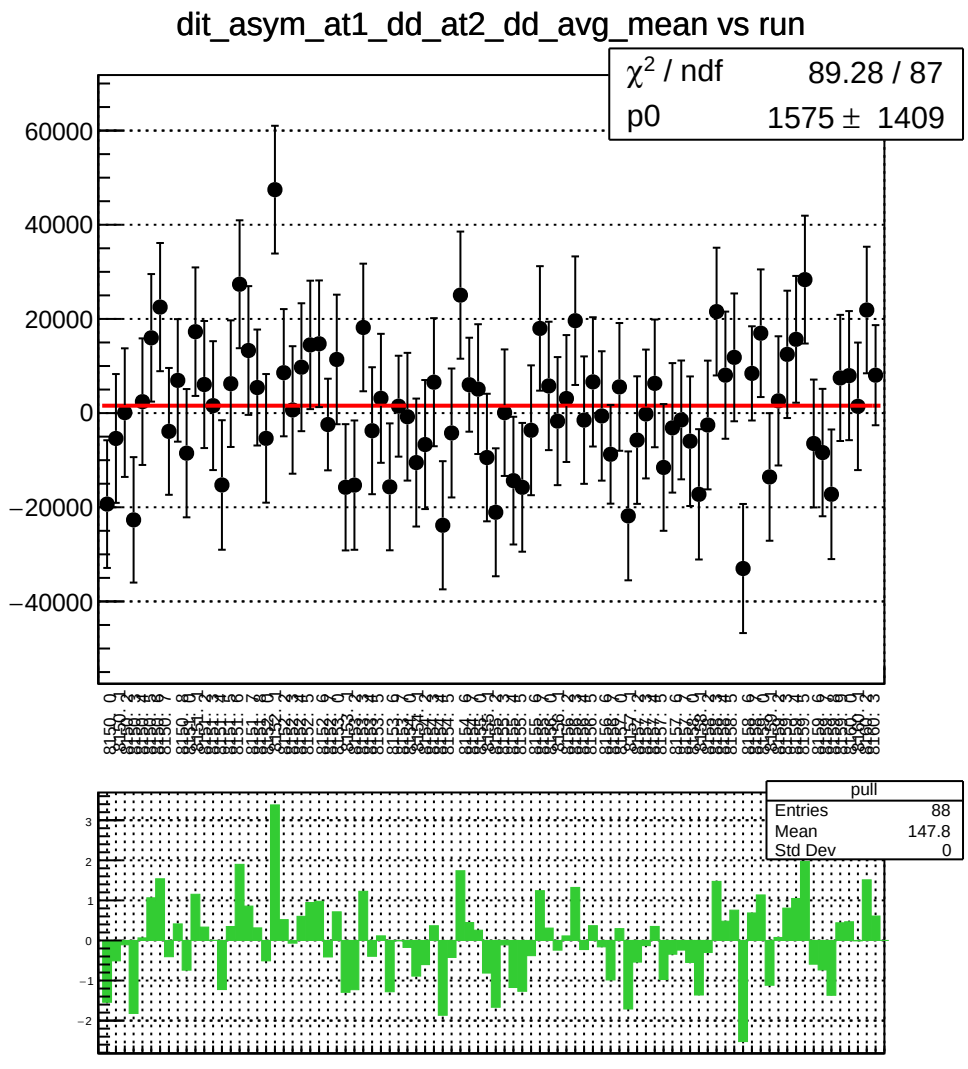

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.44 / 87
p0 1597 ± 1408
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 147.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003499
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

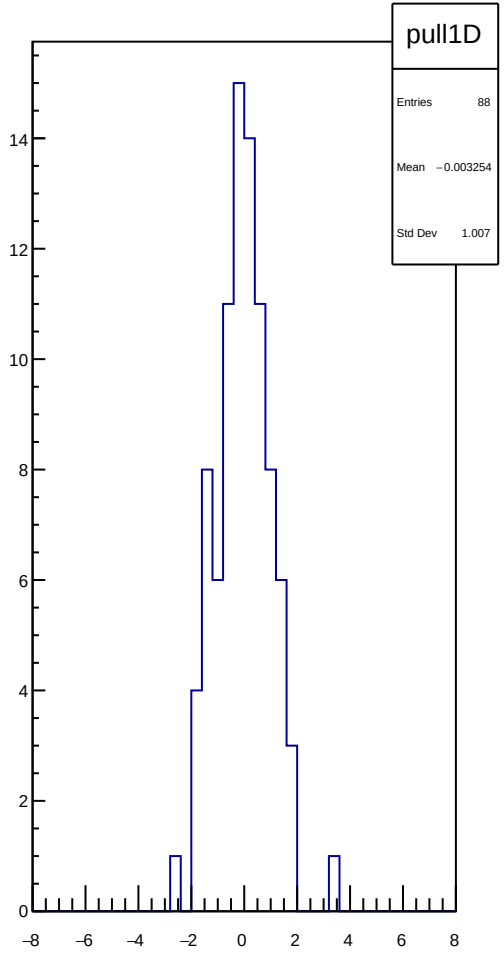

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 92.01 / 87
p0 1289 ± 0.9959
1320
1310
1300
1290
1280
1270
1260
1250

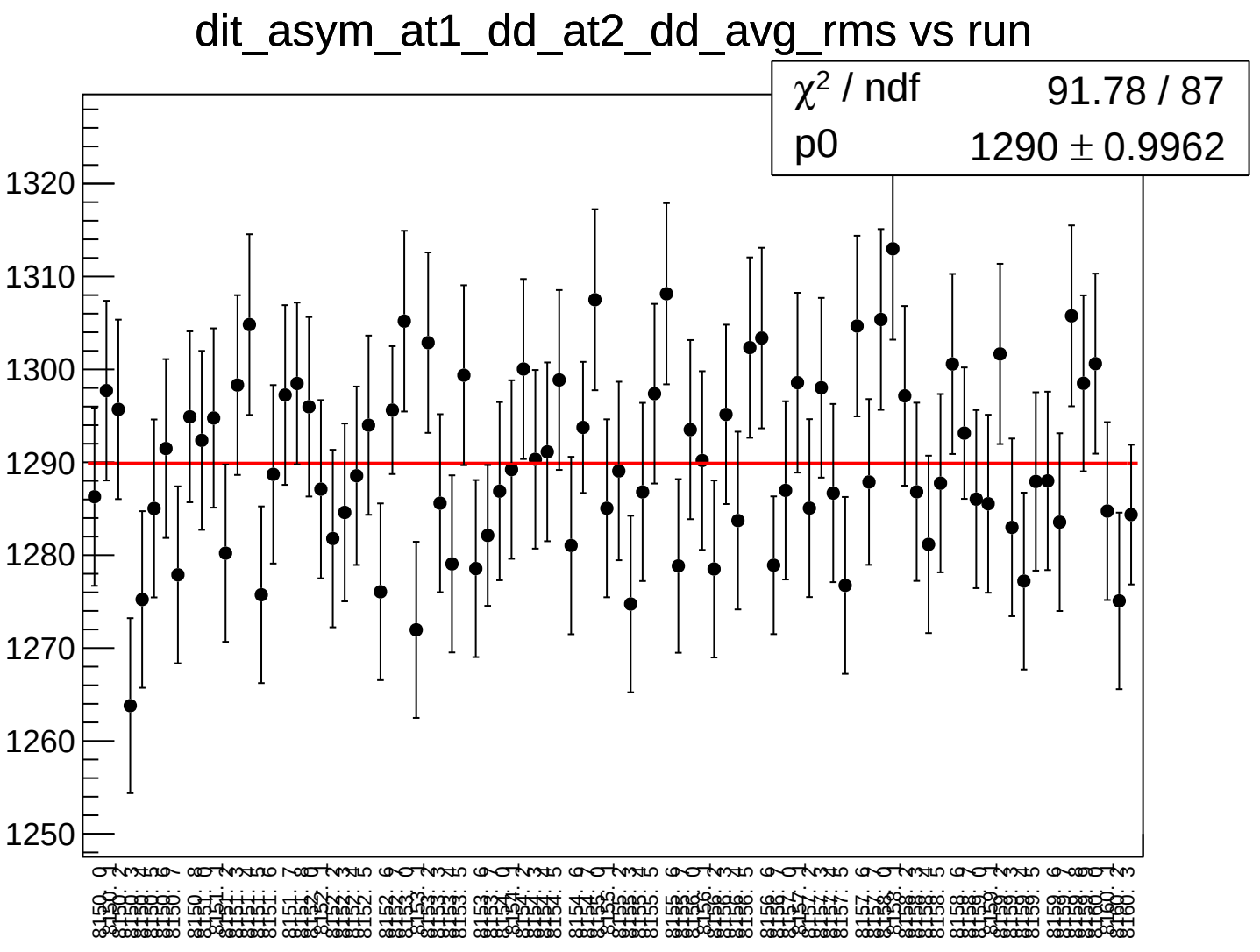

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.05 / 87
p0 1961 ± 1075
pull
Entries 88
Mean −1315
Std Dev 0

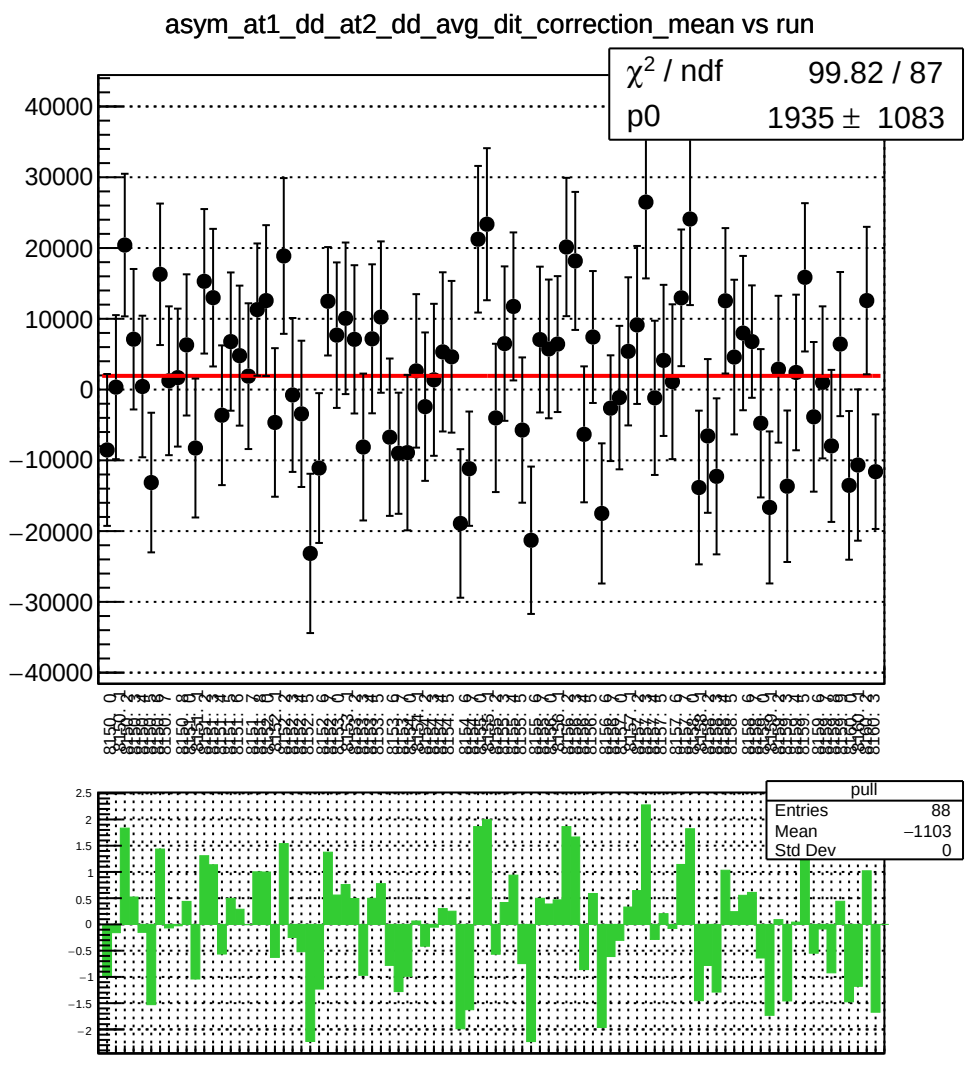

pull1D
Entries 88
Mean 0.002174
Std Dev 1.061

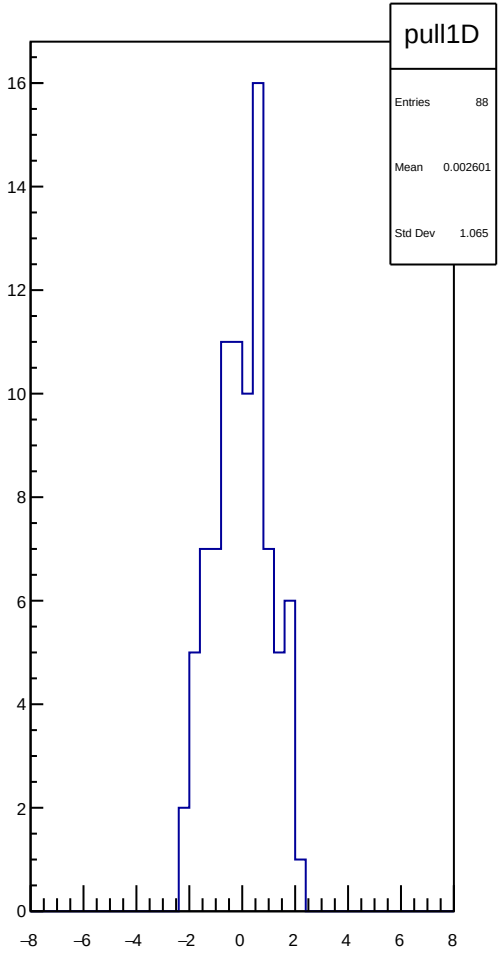

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3154 / 87
p0 983.2 ± 0.7601
1100
1050
1000
950
900

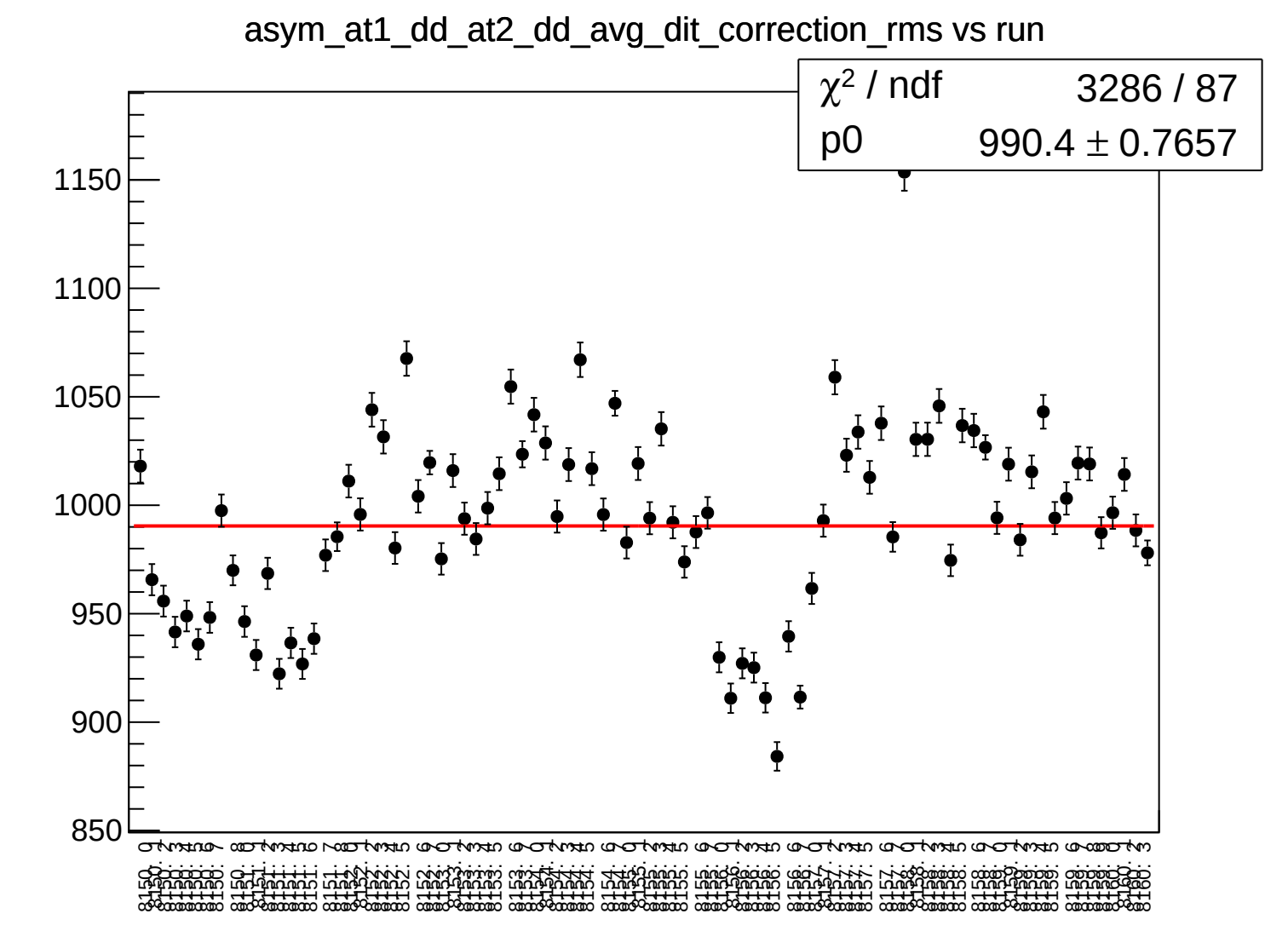

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.28 / 87
p0 1575 ± 1409
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 147.8
Std Dev 0
3
2
1
0
−1
−2

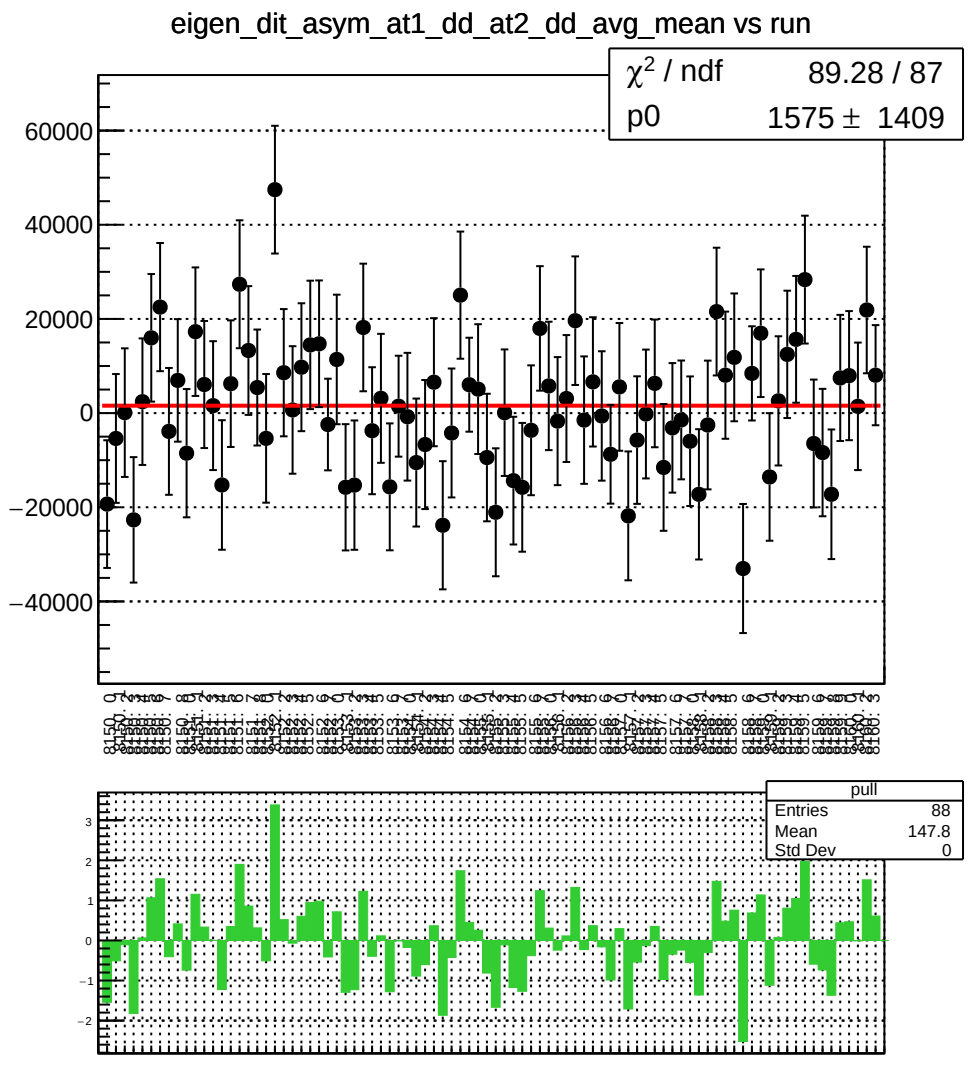

pull1D
Entries 88
Mean −0.003254
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

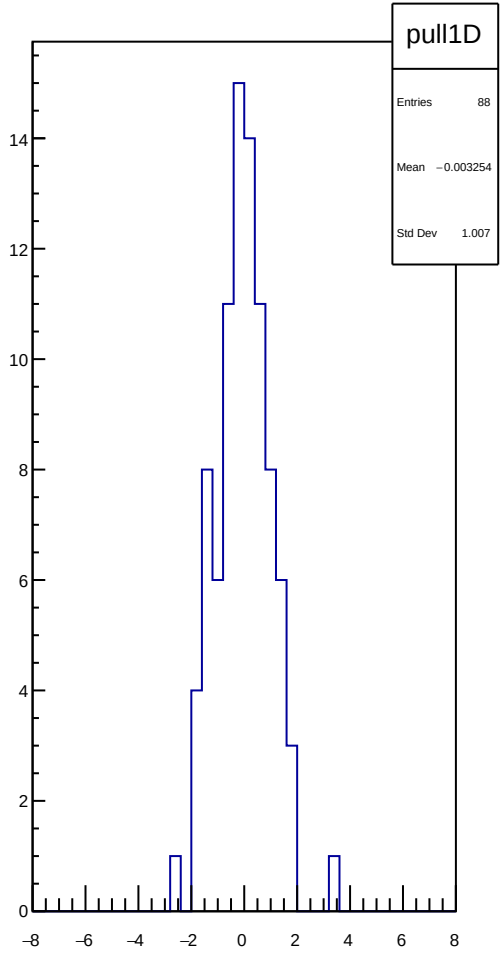

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 91.78 / 87
p0 1290 ± 0.9962
1320
1310
1300
1290
1280
1270
1260
1250

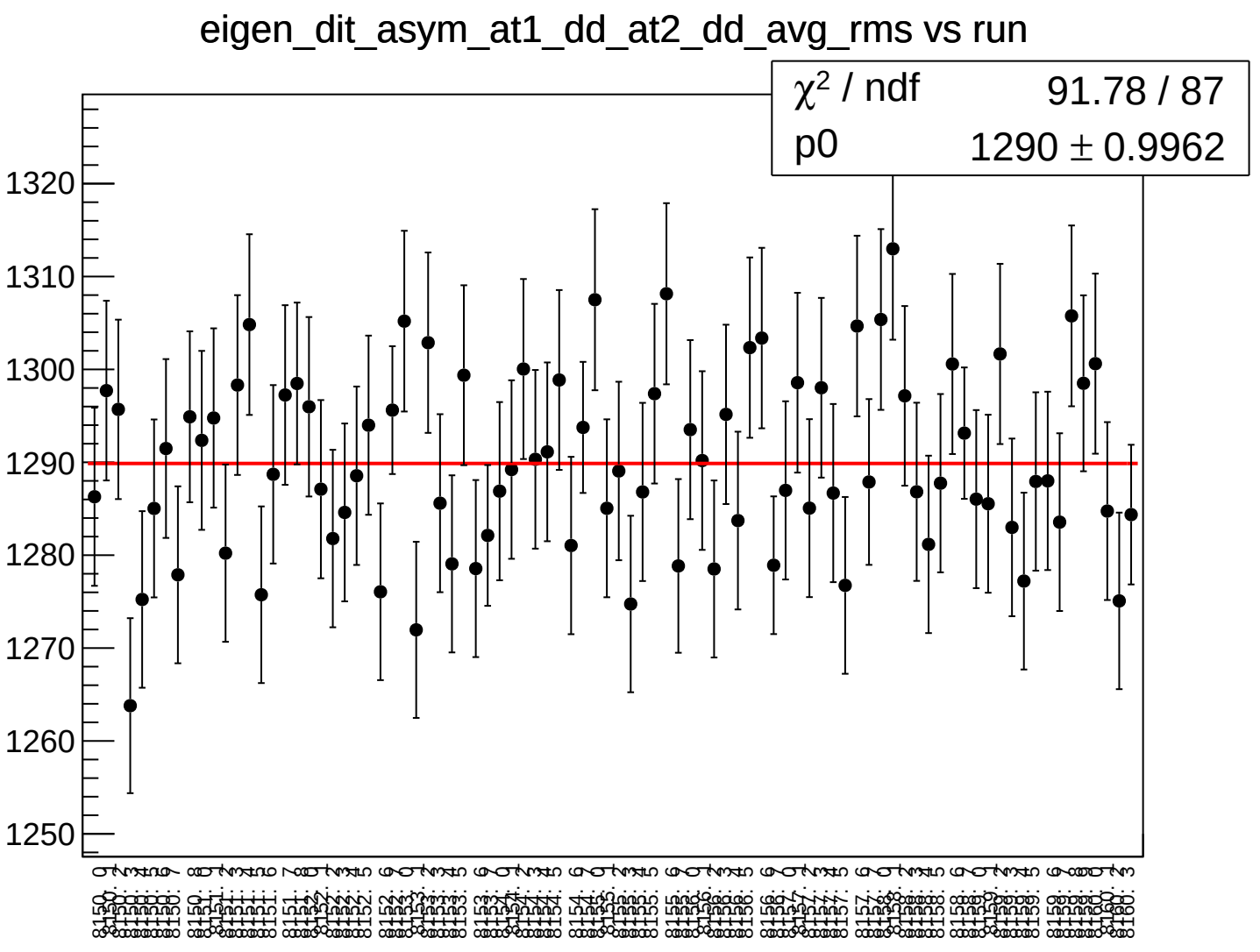

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 99.82 / 87
p0 1935 ± 1083
pull
Entries 88
Mean −1103
Std Dev 0

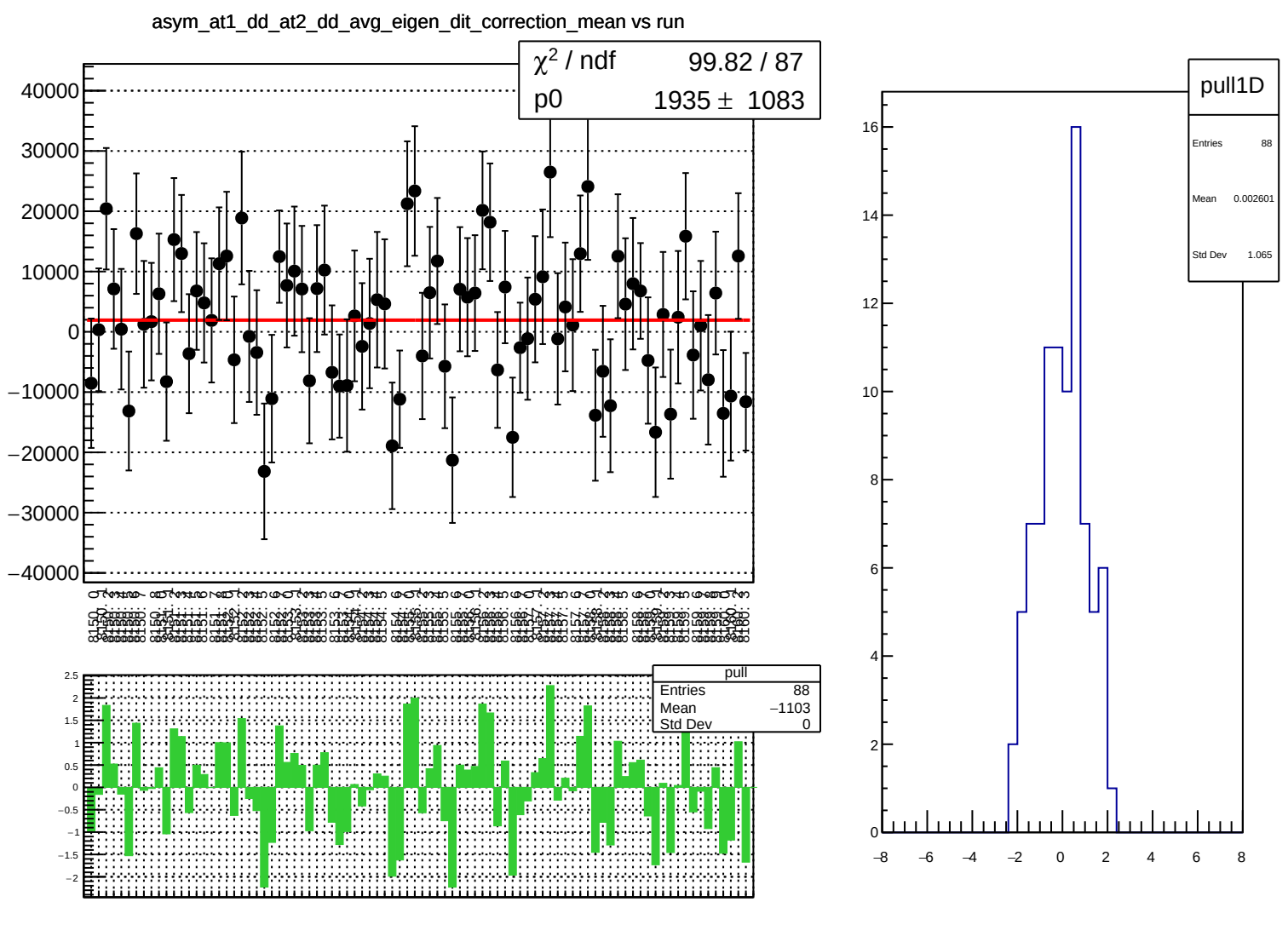

pull1D
Entries 88
Mean 0.002601
Std Dev 1.065

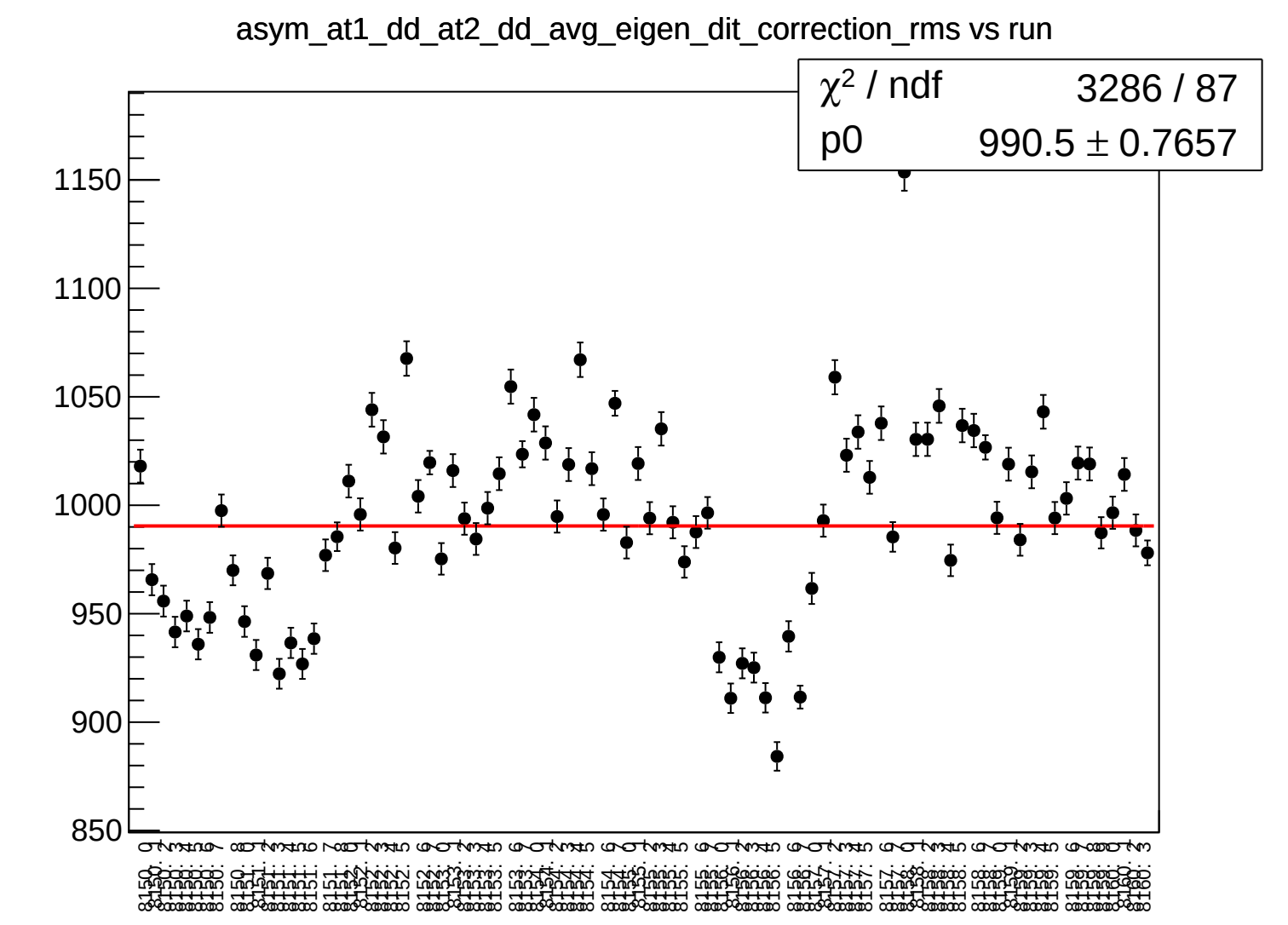

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 3286 / 87
p0 990.4 ± 0.7657
1150
1100
1050
1000
950
900
850

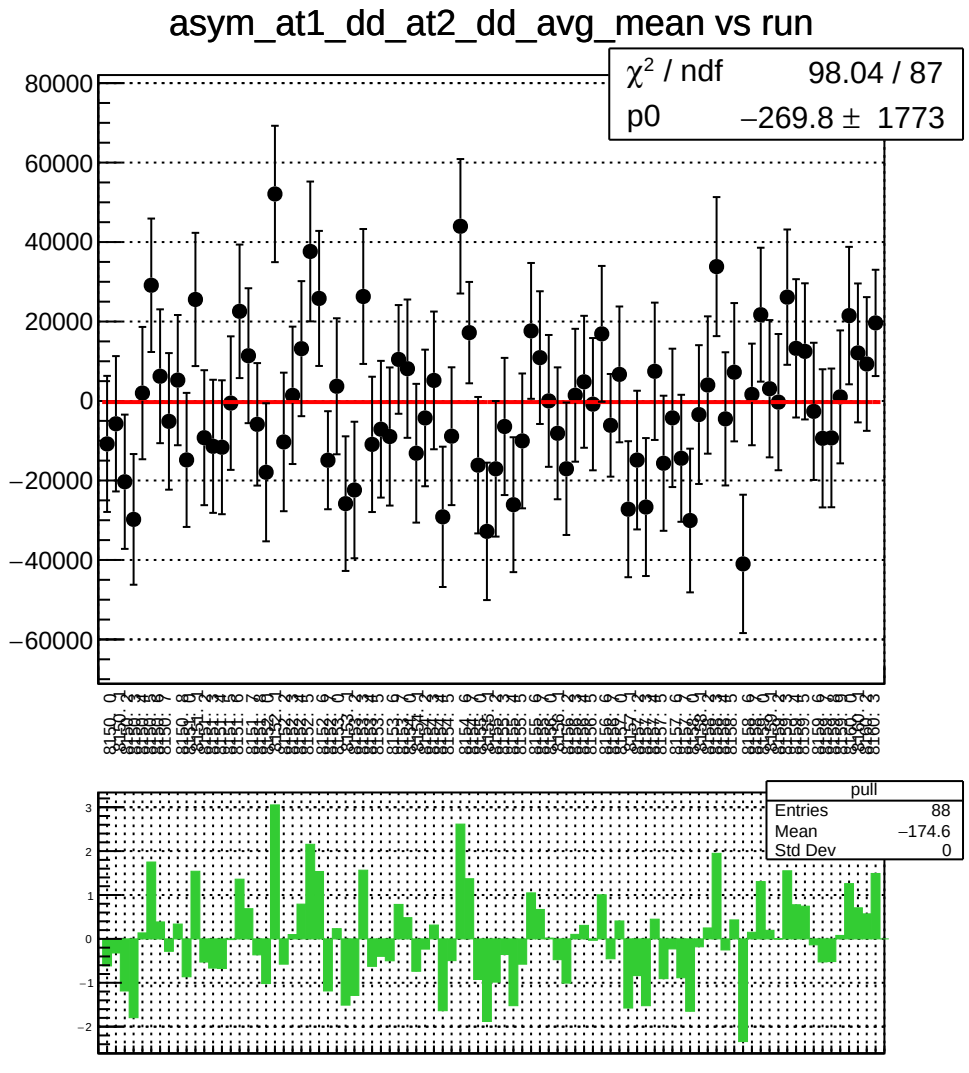

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.28 / 87
p0 1575 ± 1409
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 147.8
Std Dev 0
3
2
1
0
−1
−2

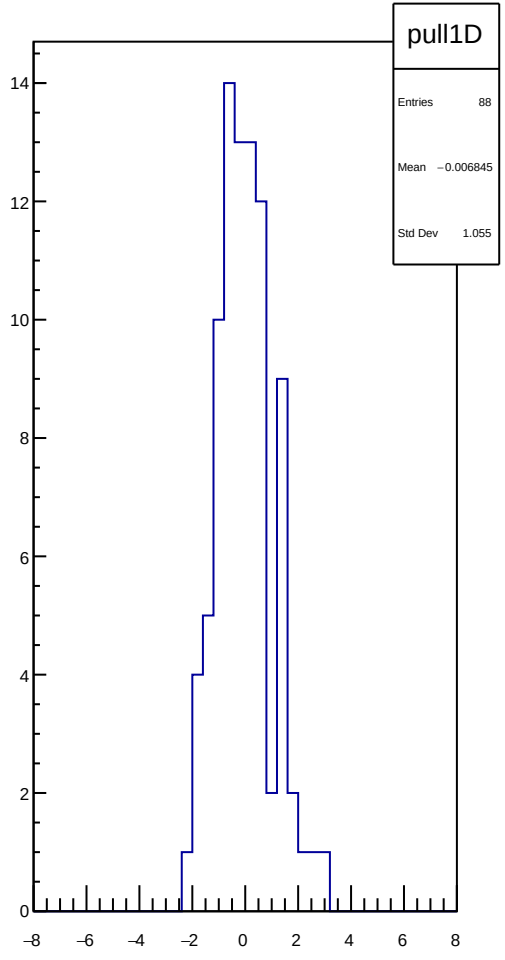

pull1D
Entries 88
Mean −0.003254
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

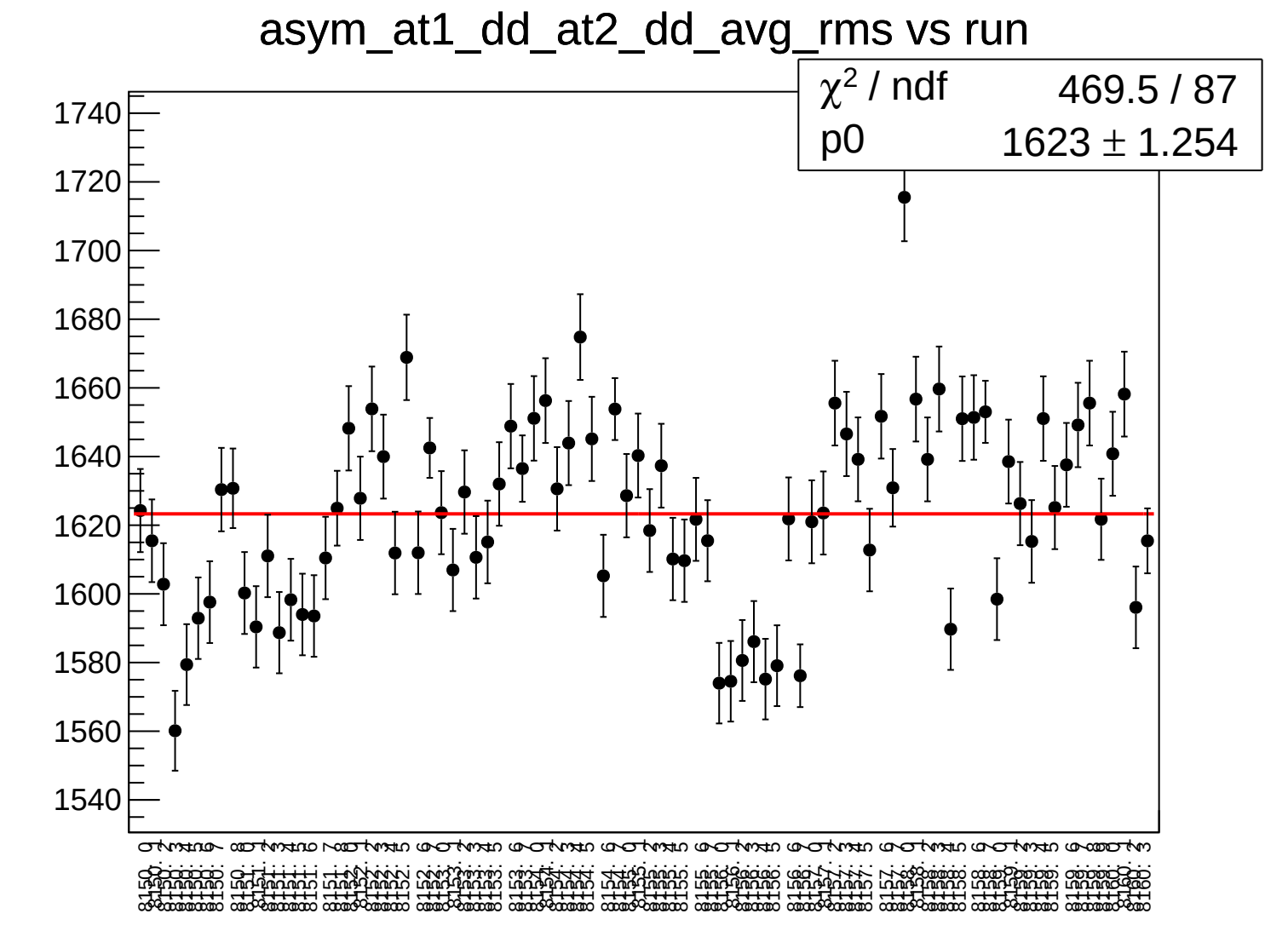

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 91.78 / 87
p0 1290 ± 0.9962
1320
1310
1300
1290
1280
1270
1260
1250

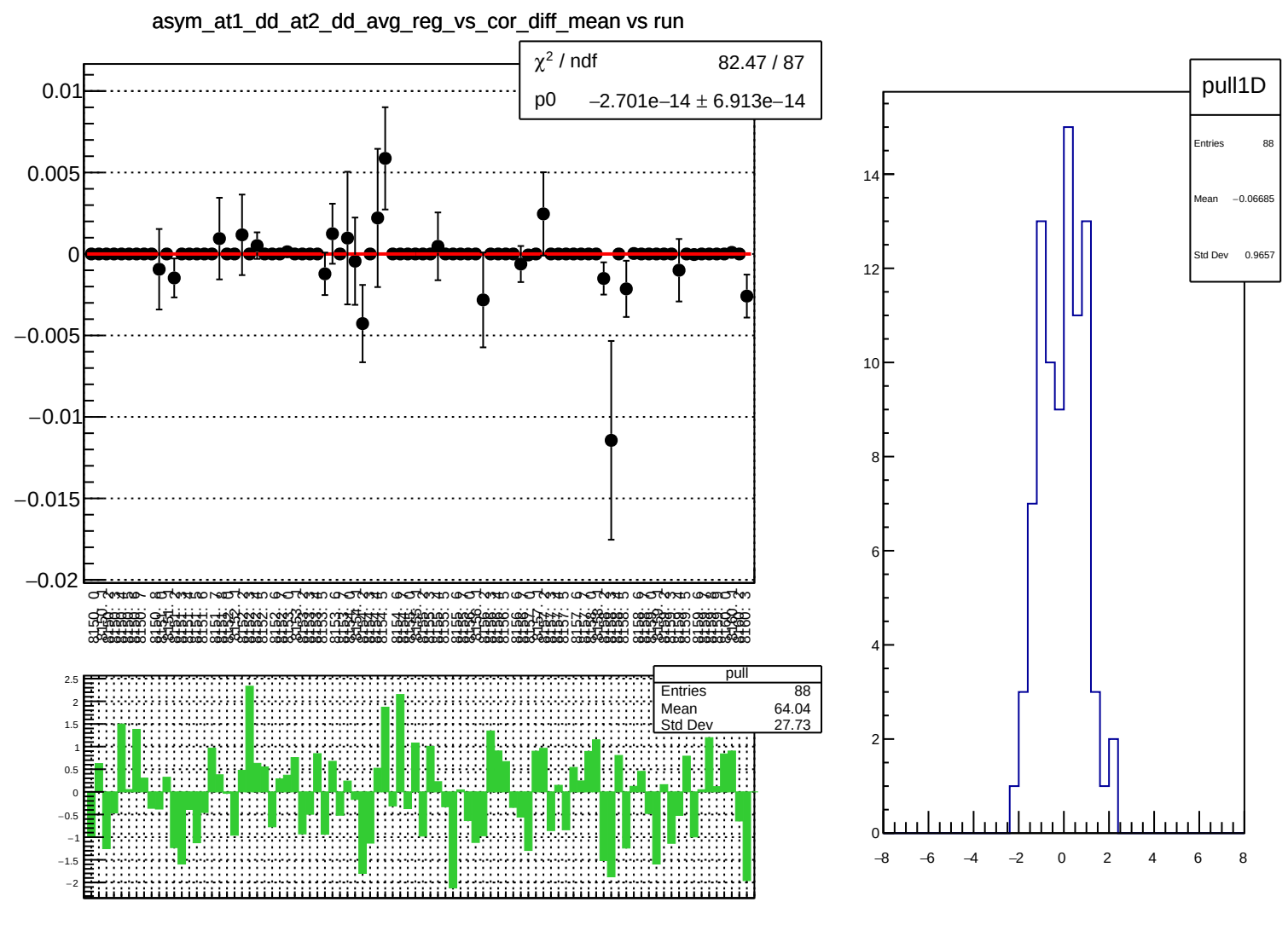

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.82 / 87
p0 1935 ± 1083
pull
Entries 88
Mean −1103
Std Dev 0
pull1D
Entries 88
Mean 0.002601
Std Dev 1.065

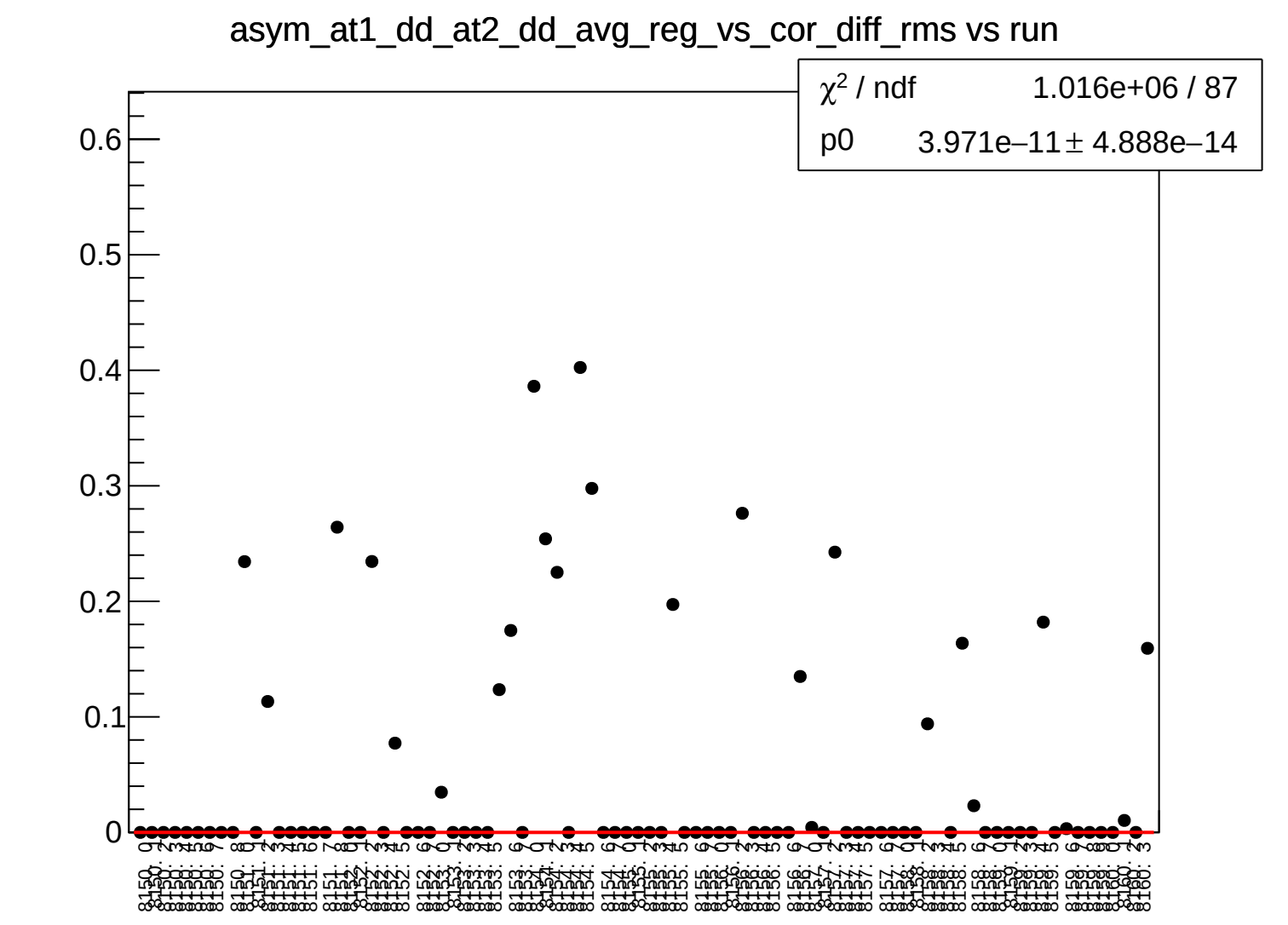

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3286 / 87
p0 990.5 ± 0.7657
1150
1100
1050
1000
950
900
850

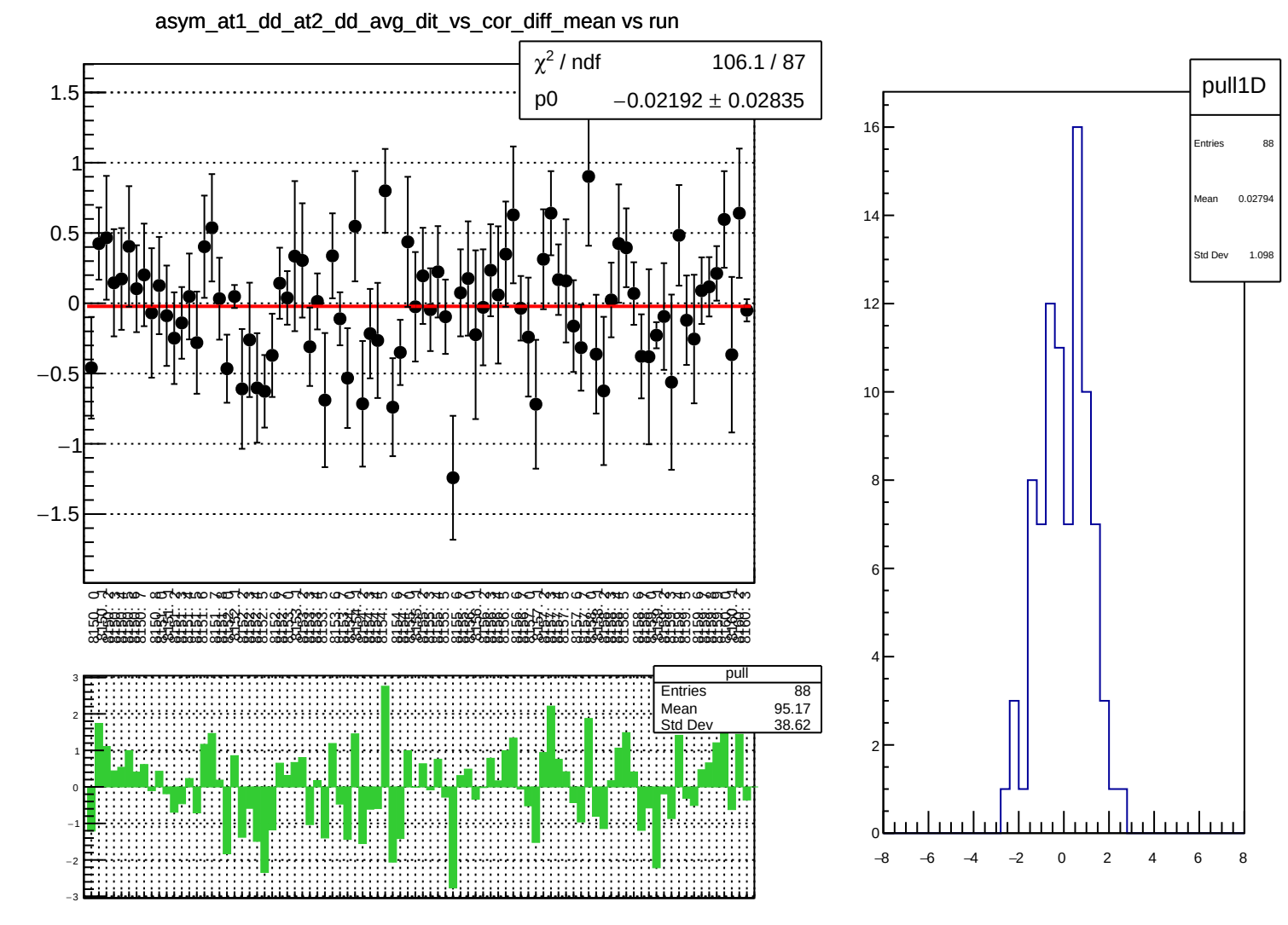

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 98.04 / 87
p0 −269.8 ± 1773
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −174.6
Std Dev 0
3
2
1
0
−1
−2

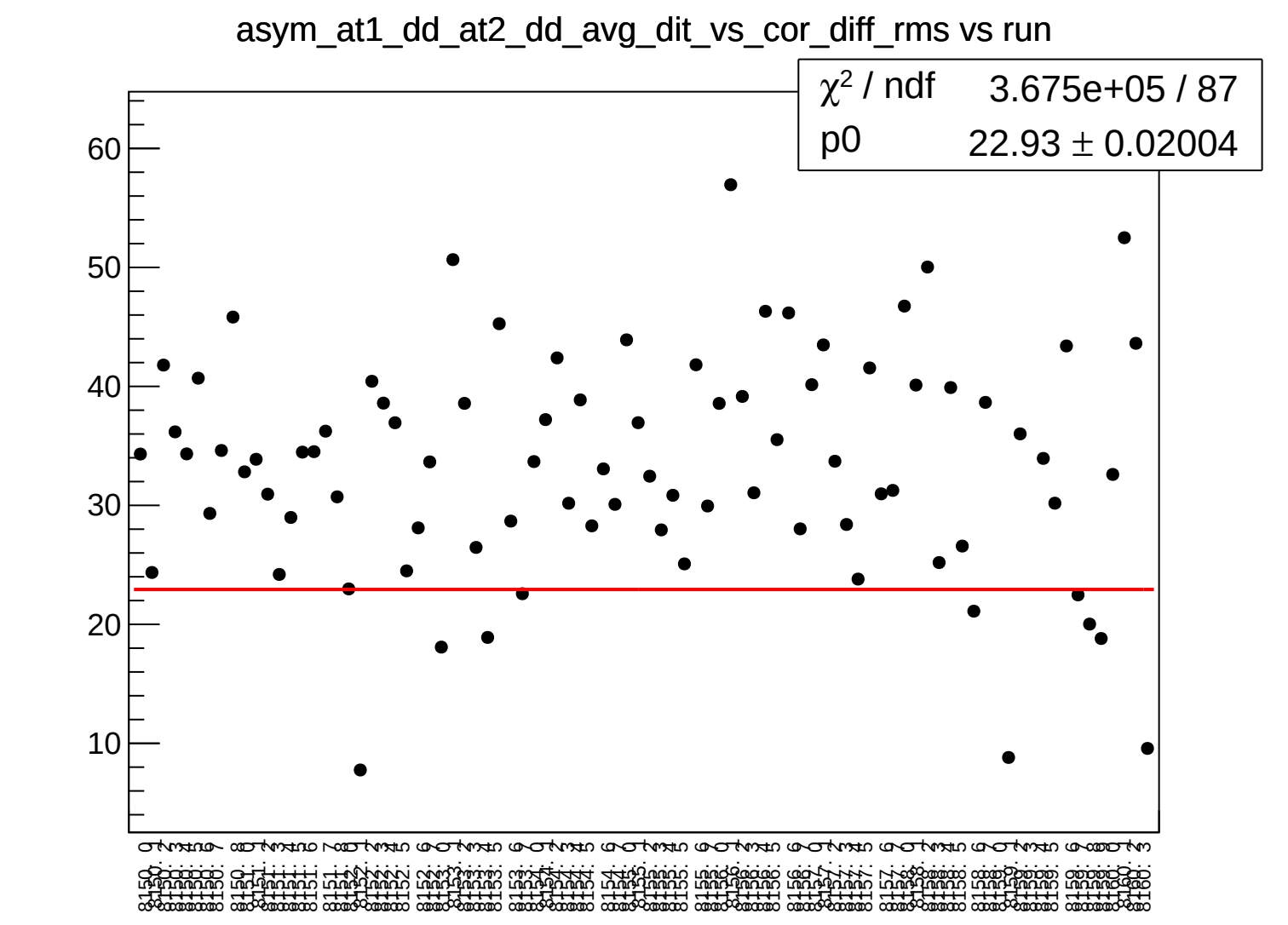

pull1D
Entries 88
Mean −0.006845
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

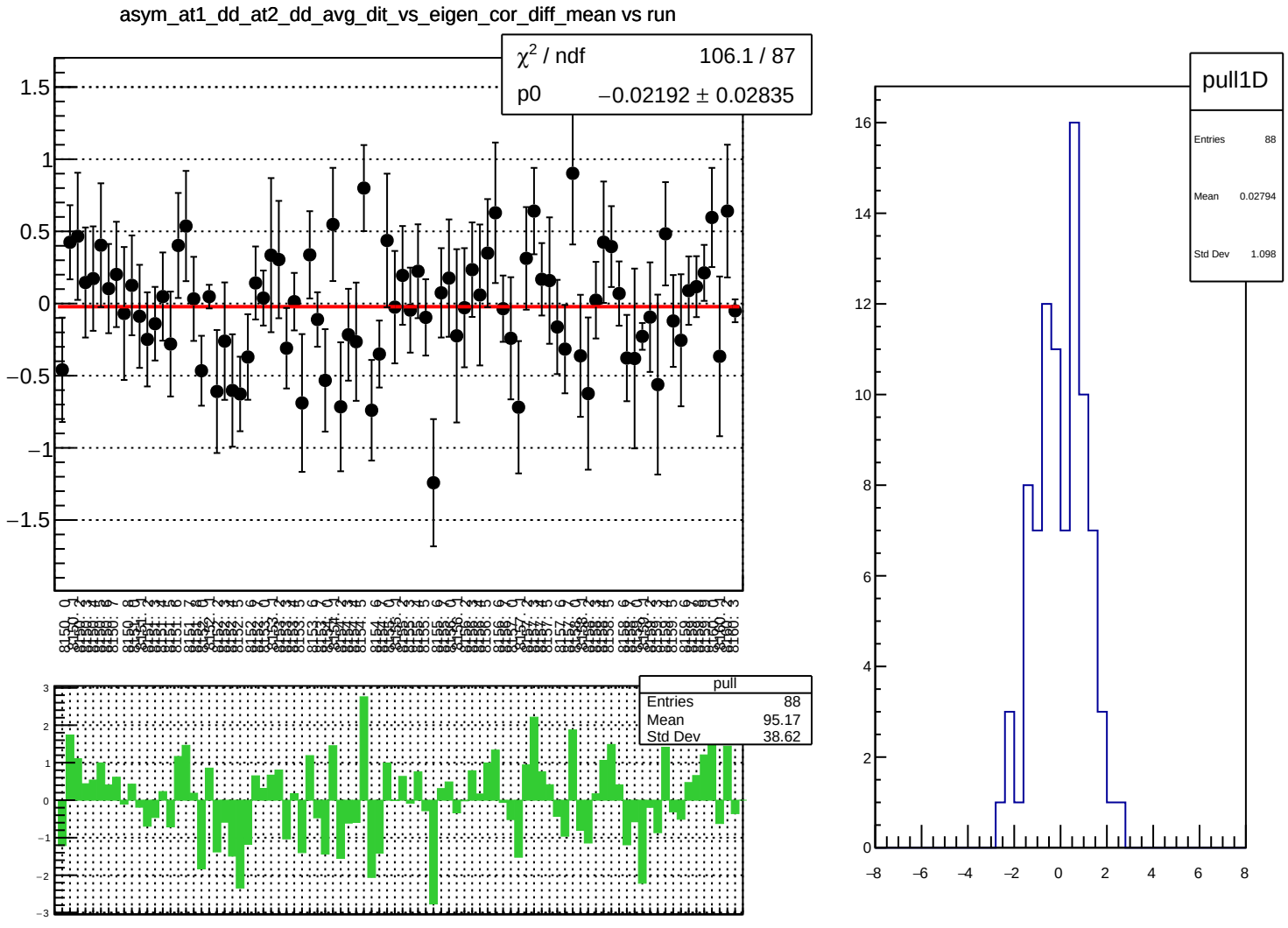

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 469.5 / 87
p0 1623 ± 1.254
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

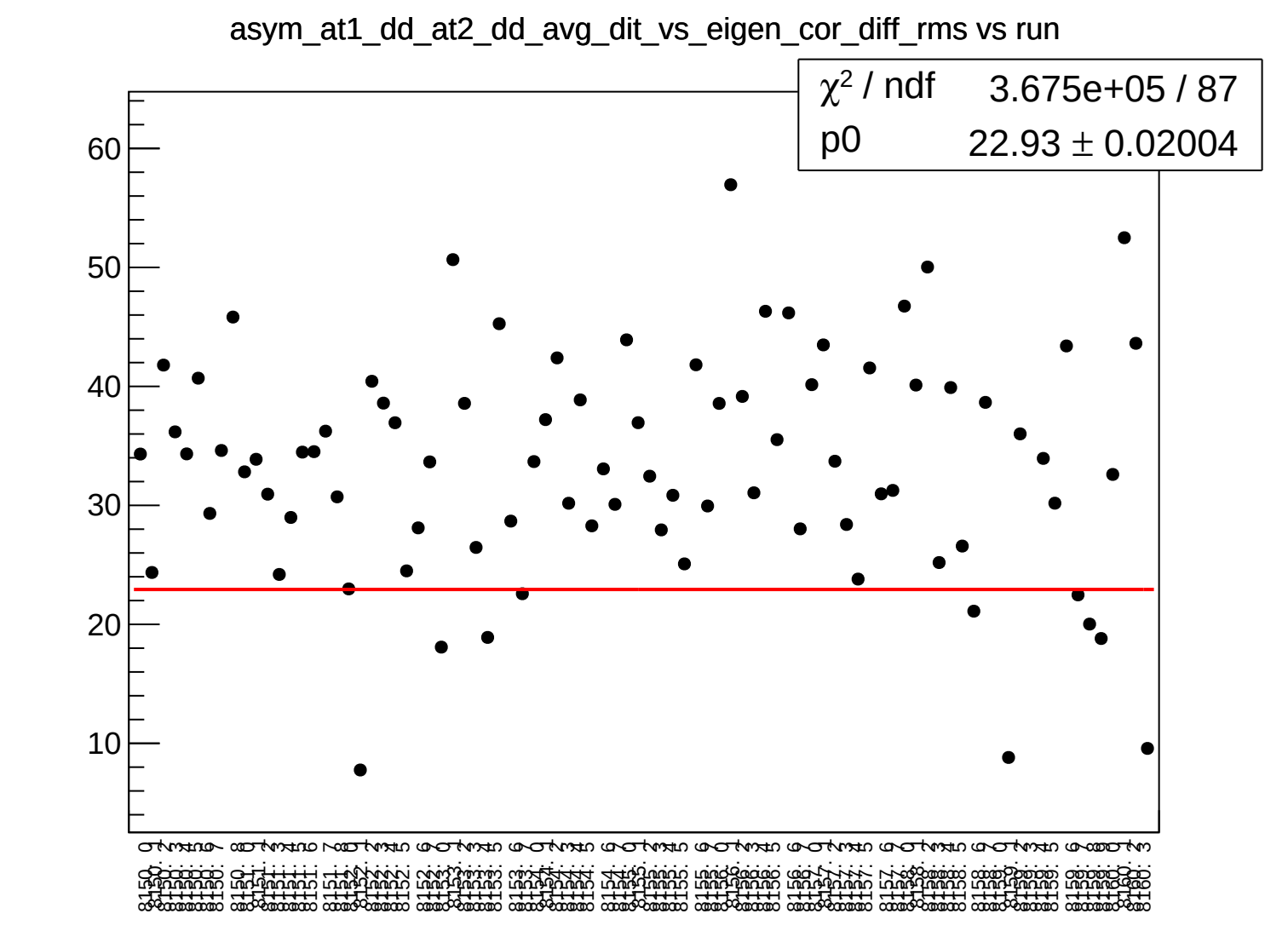

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.47 / 87
p0 −2.701e−14 ± 6.913e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 88
Mean 64.04
Std Dev 27.73
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.06685
Std Dev 0.9657
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

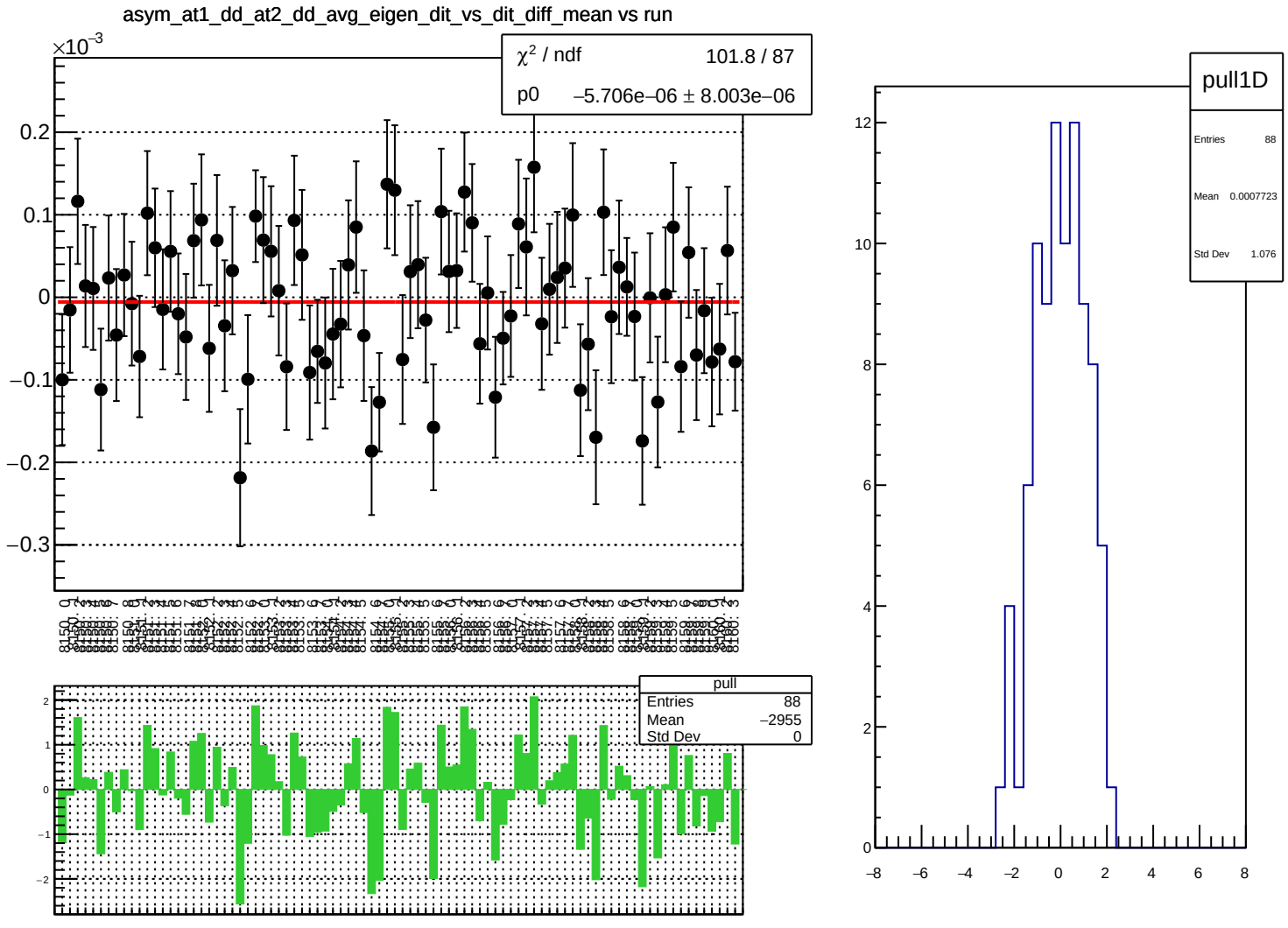

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.016e+06 / 87
p0 3.971e−11 ± 4.888e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

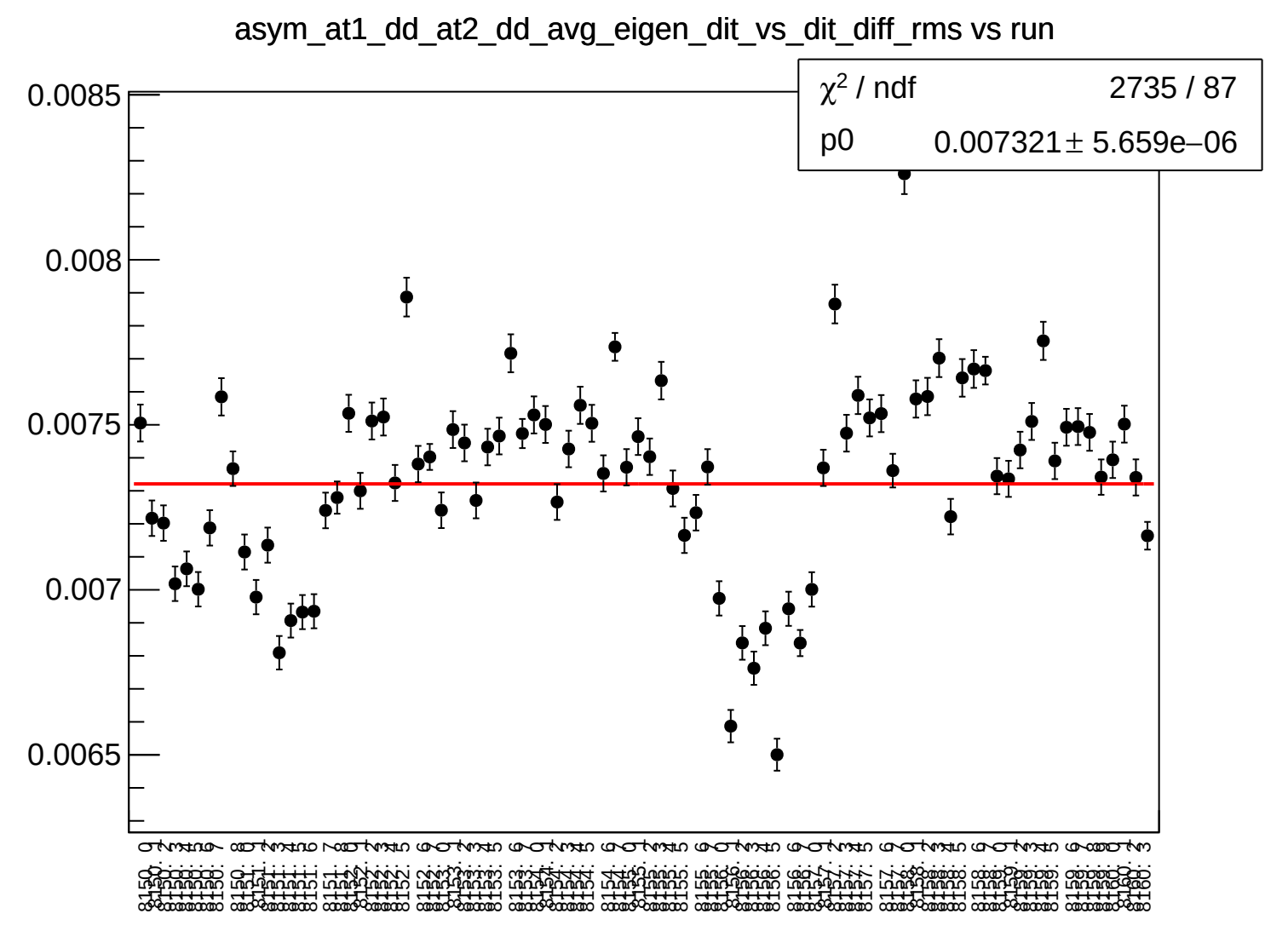

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.1 / 87
p0 −0.02192 ± 0.02835
pull
Entries 88
Mean 95.17
Std Dev 38.62
pull1D
Entries 88
Mean 0.02794
Std Dev 1.098

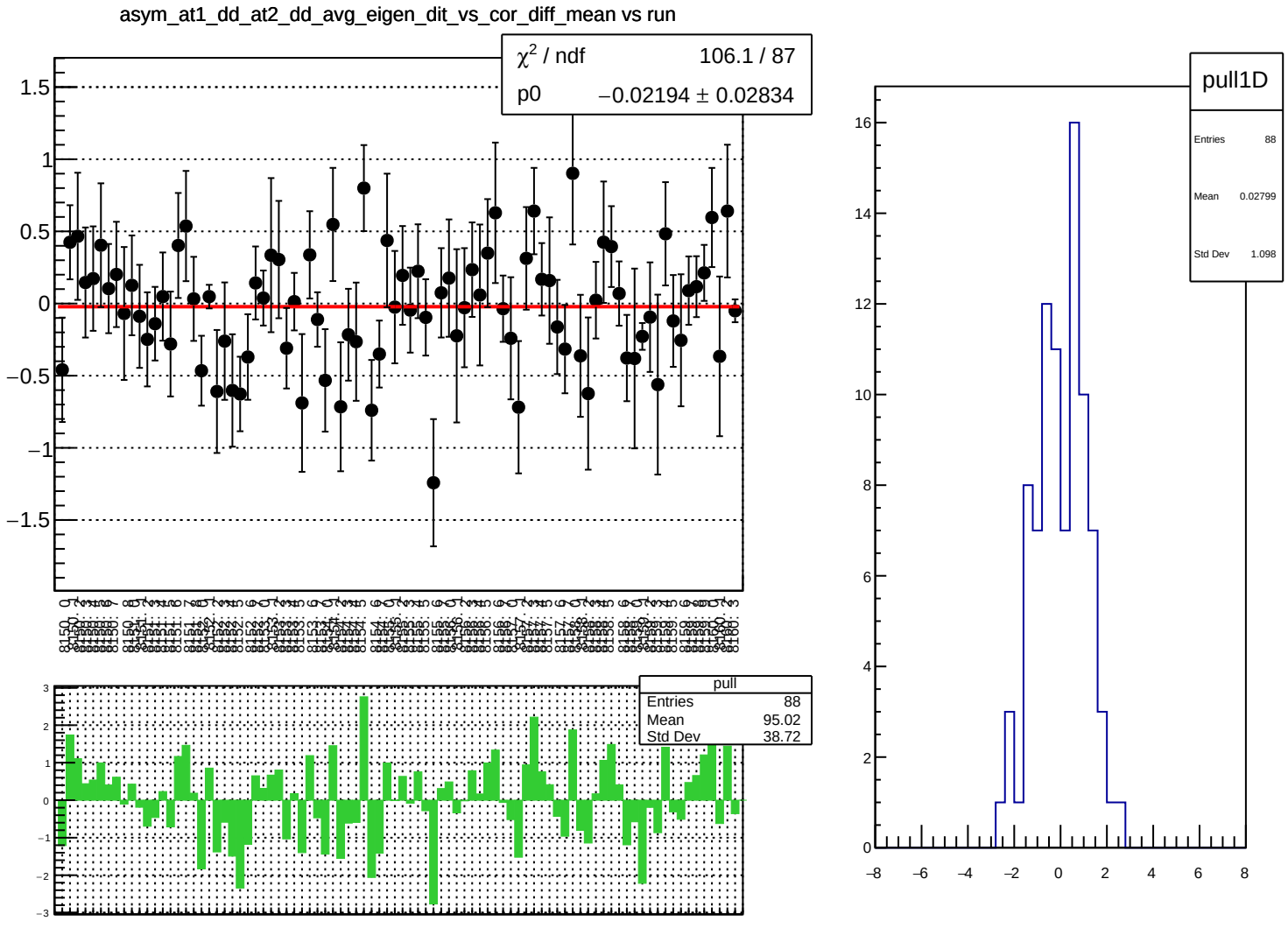

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.675e+05 / 87
p0 22.93 ± 0.02004
60
50
40
30
20
10

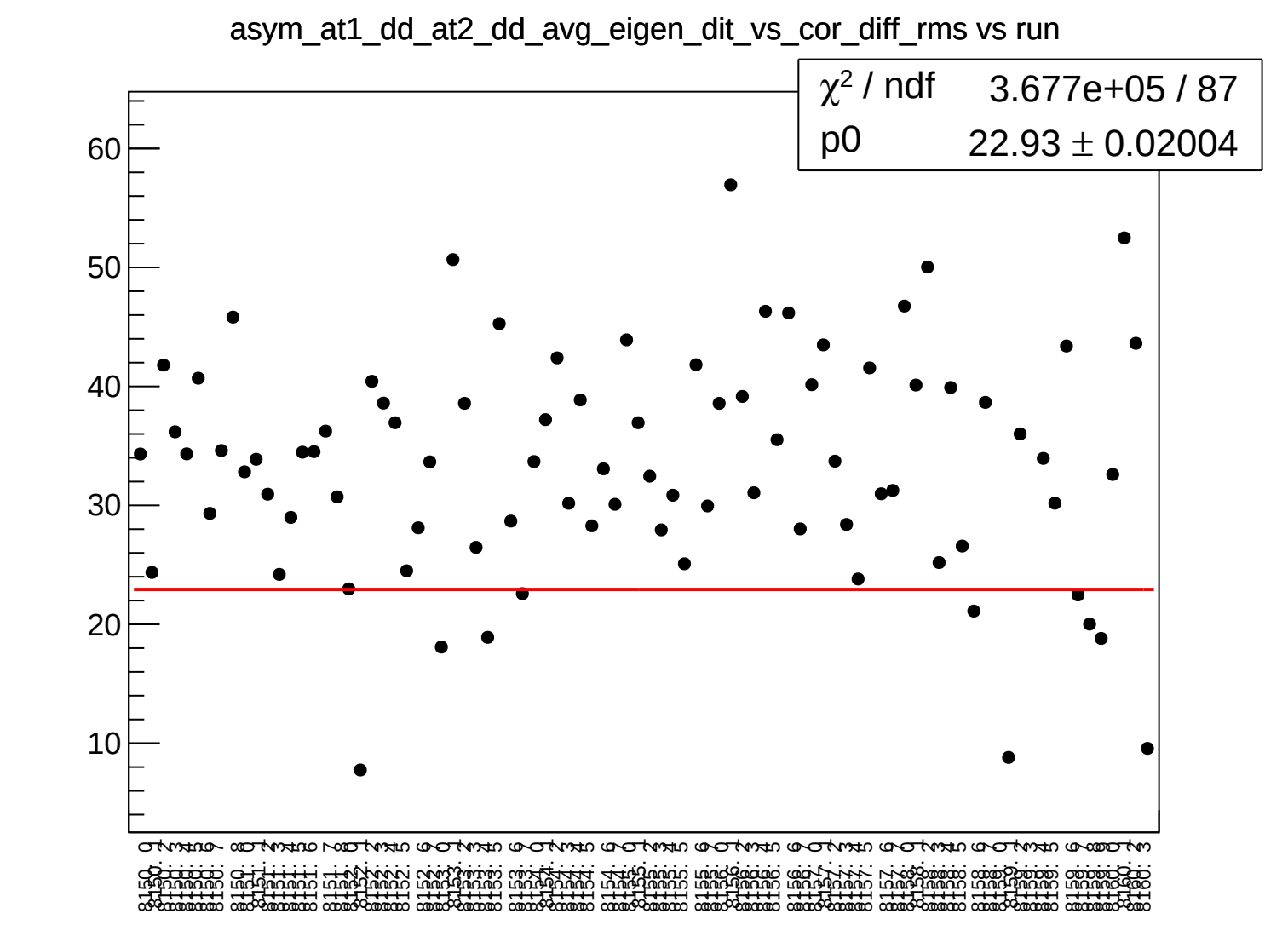

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.1 / 87
p0 −0.02192 ± 0.02835
pull
Entries 88
Mean 95.17
Std Dev 38.62
pull1D
Entries 88
Mean 0.02794
Std Dev 1.098

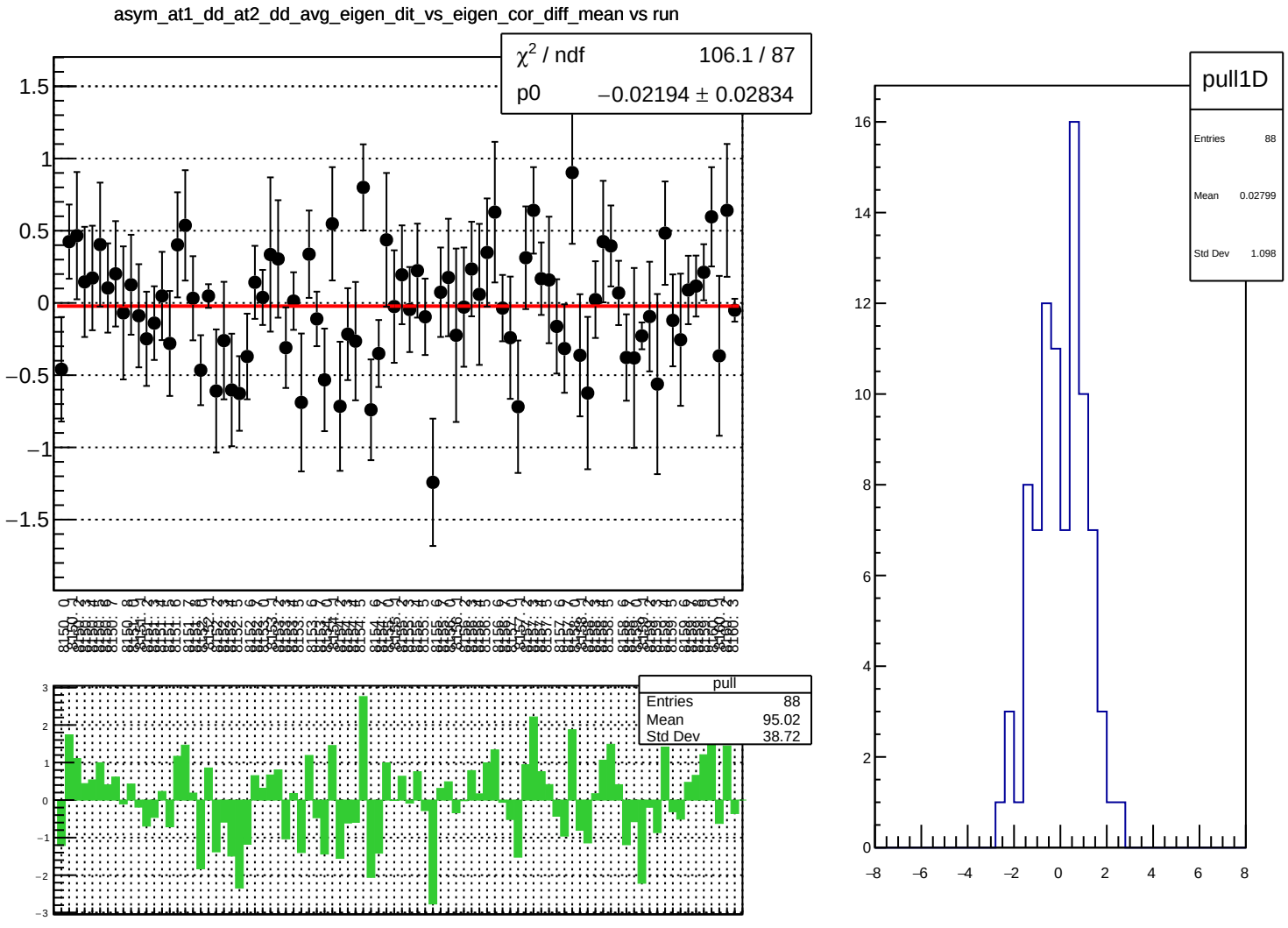

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.675e+05 / 87
p0 22.93 ± 0.02004
60
50
40
30
20
10

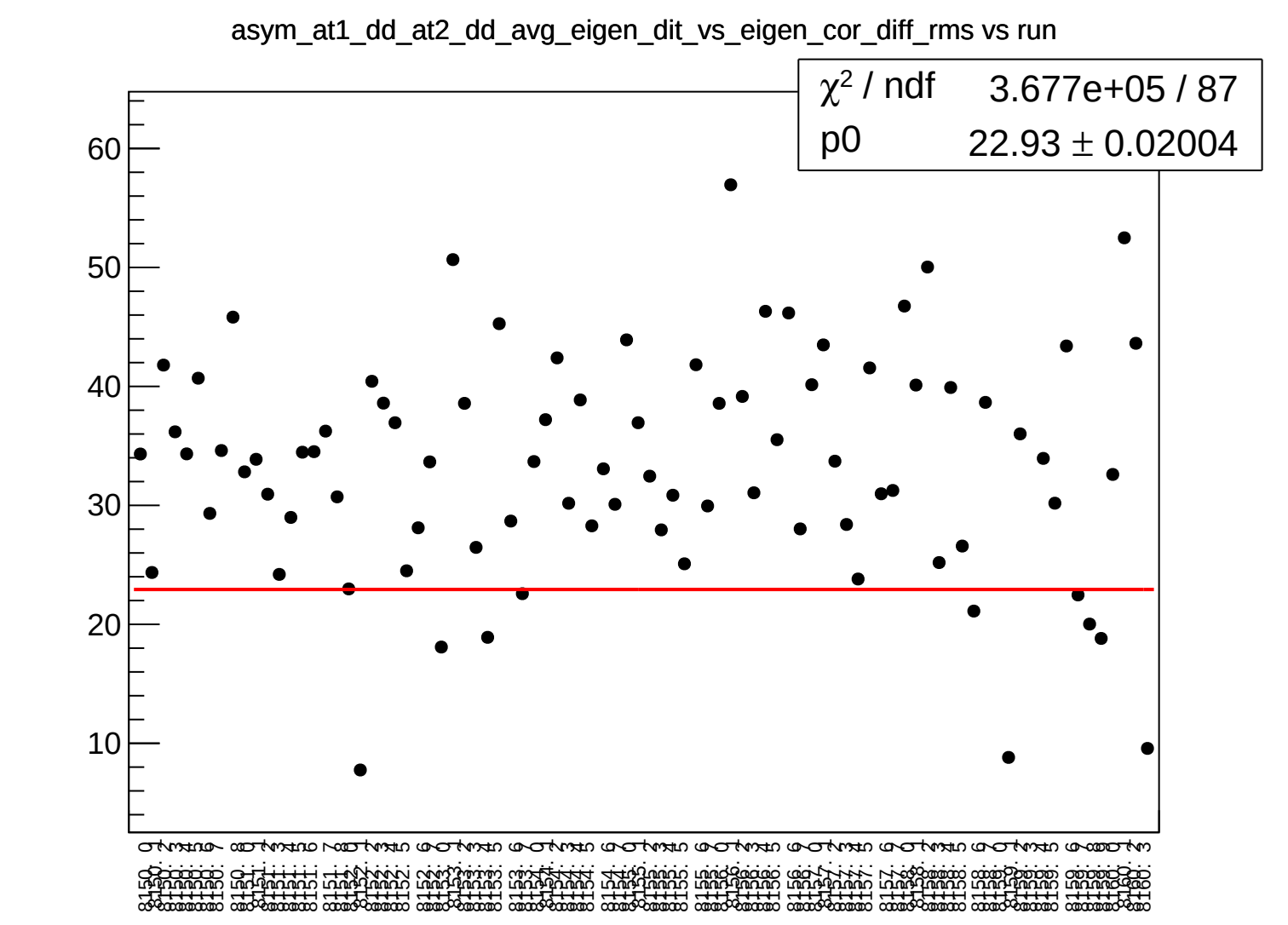

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.8 / 87
p0 −5.706e−06 ± 8.003e−06
pull
Entries 88
Mean −2955
Std Dev 0
pull1D
Entries 88
Mean 0.0007723
Std Dev 1.076

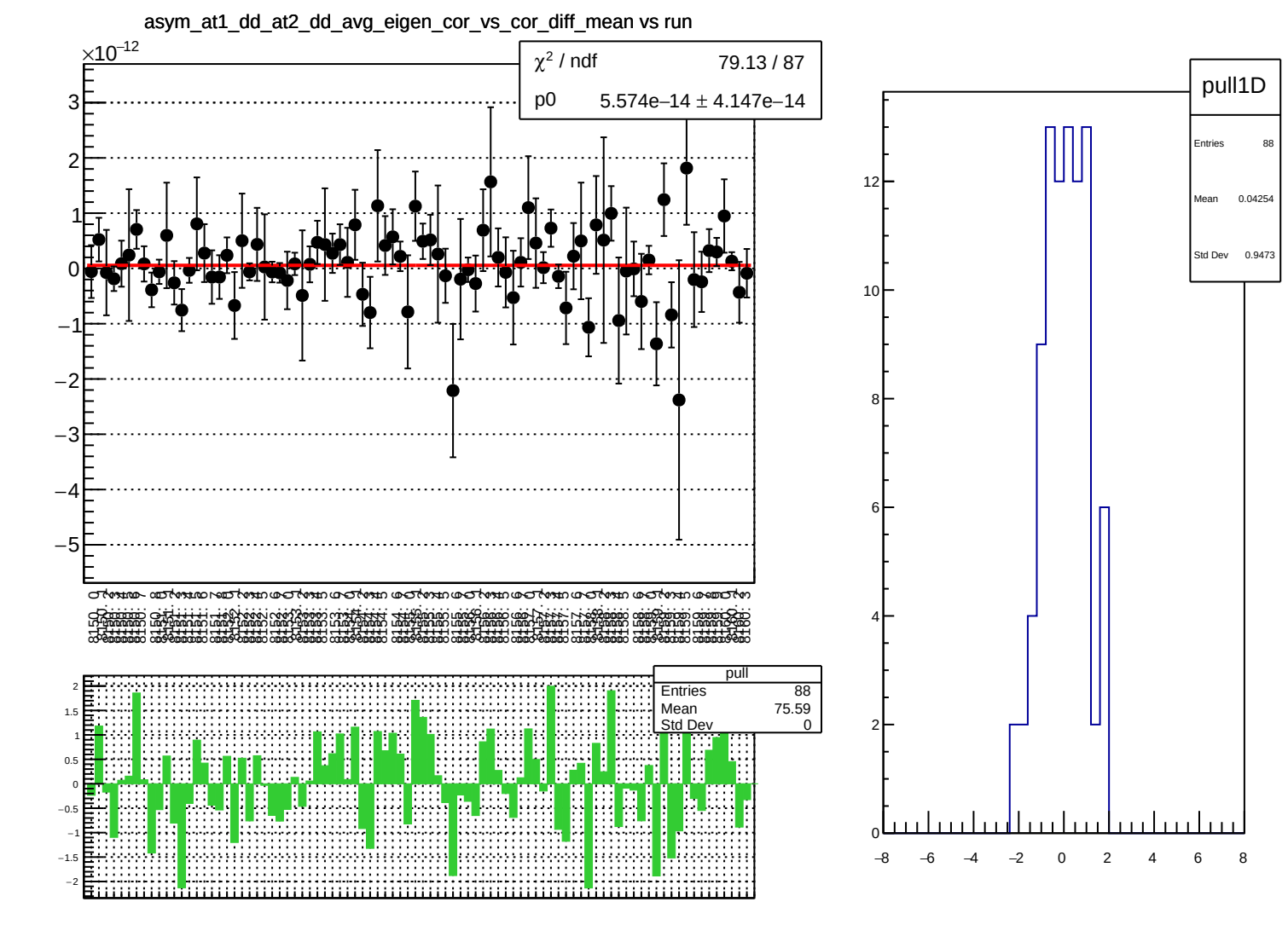

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2735 / 87
p0 0.007321 ± 5.659e−06
0.0085
0.008
0.0075
0.007
0.0065

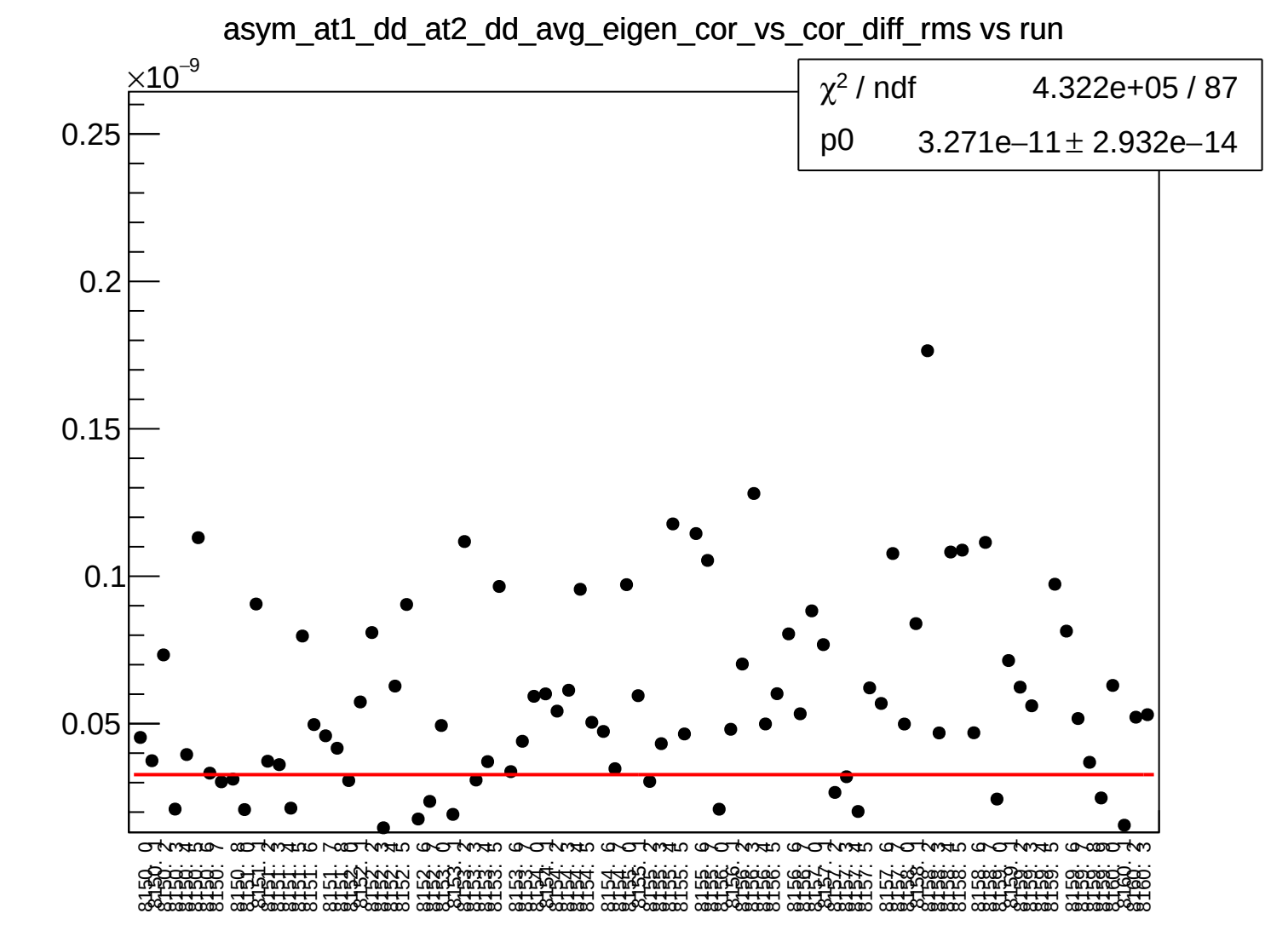

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.1 / 87
p0 −0.02194 ± 0.02834
pull
Entries 88
Mean 95.02
Std Dev 38.72
pull1D
Entries 88
Mean 0.02799
Std Dev 1.098

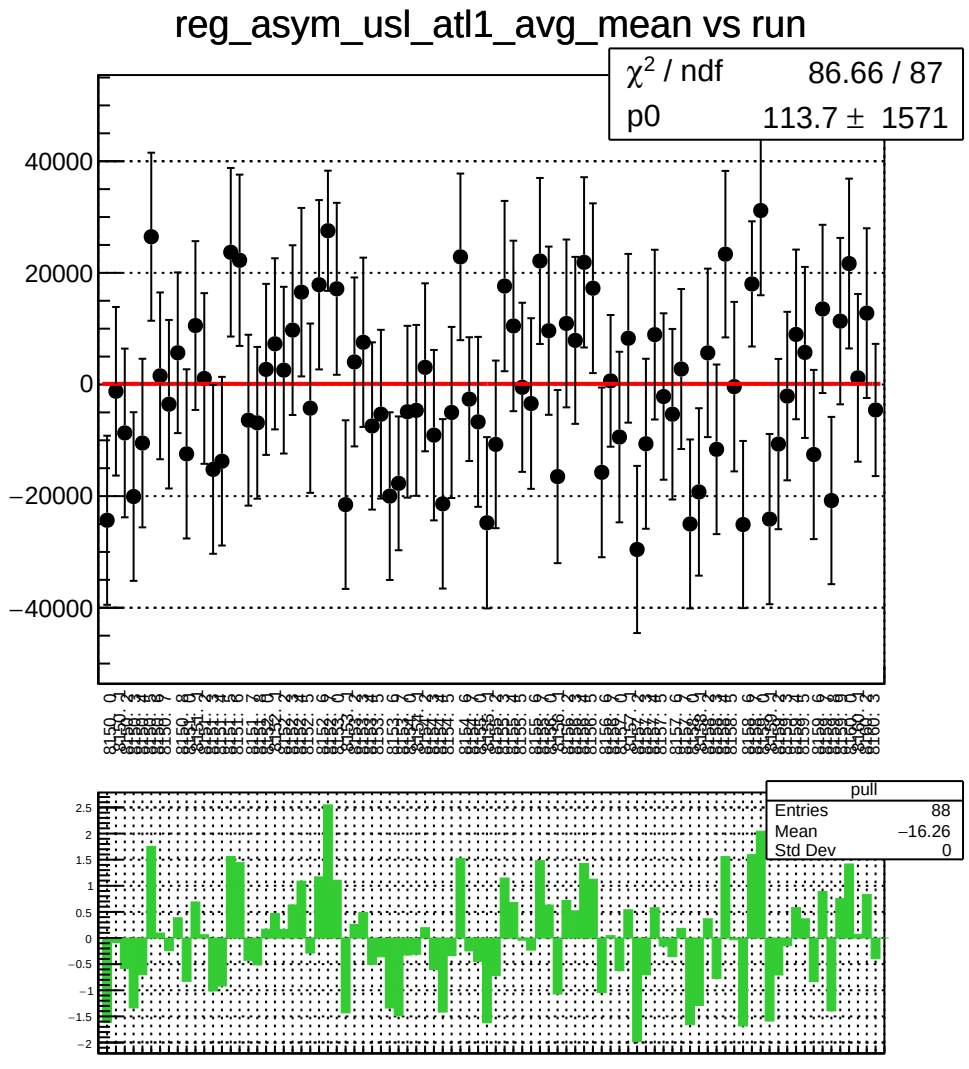

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.677e+05 / 87
p0 22.93 ± 0.02004
60
50
40
30
20
10

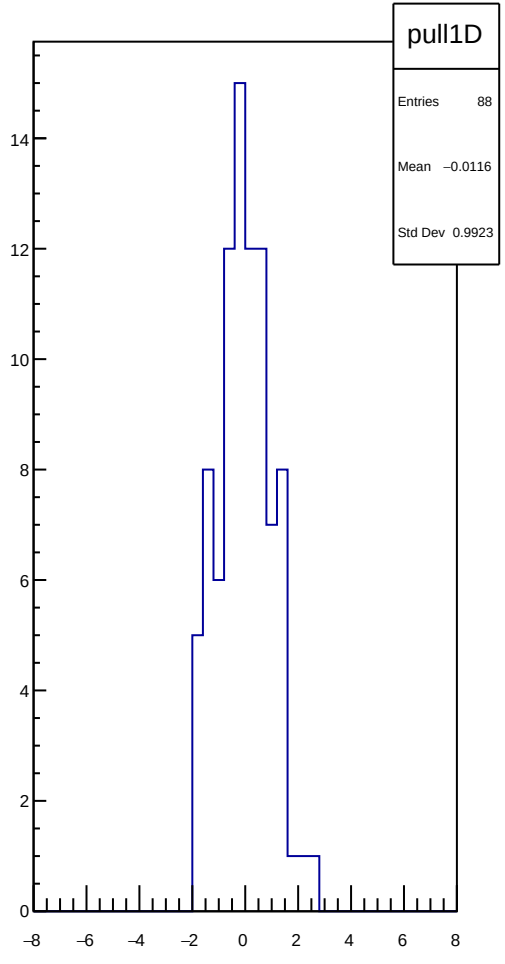

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.1 / 87
p0 −0.02194 ± 0.02834
pull
Entries 88
Mean 95.02
Std Dev 38.72
pull1D
Entries 88
Mean 0.02799
Std Dev 1.098

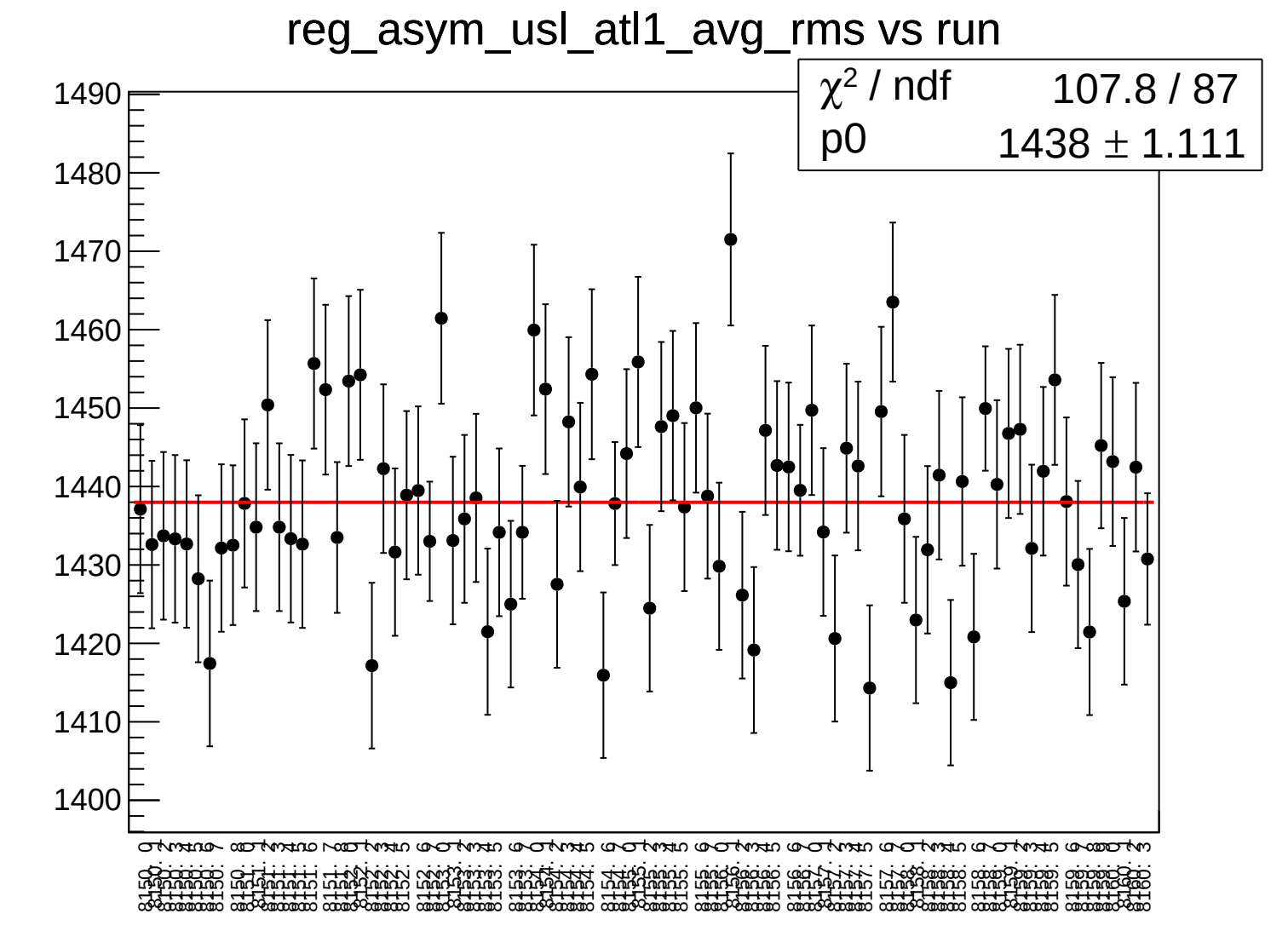

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.677e+05 / 87
p0 22.93 ± 0.02004
60
50
40
30
20
10

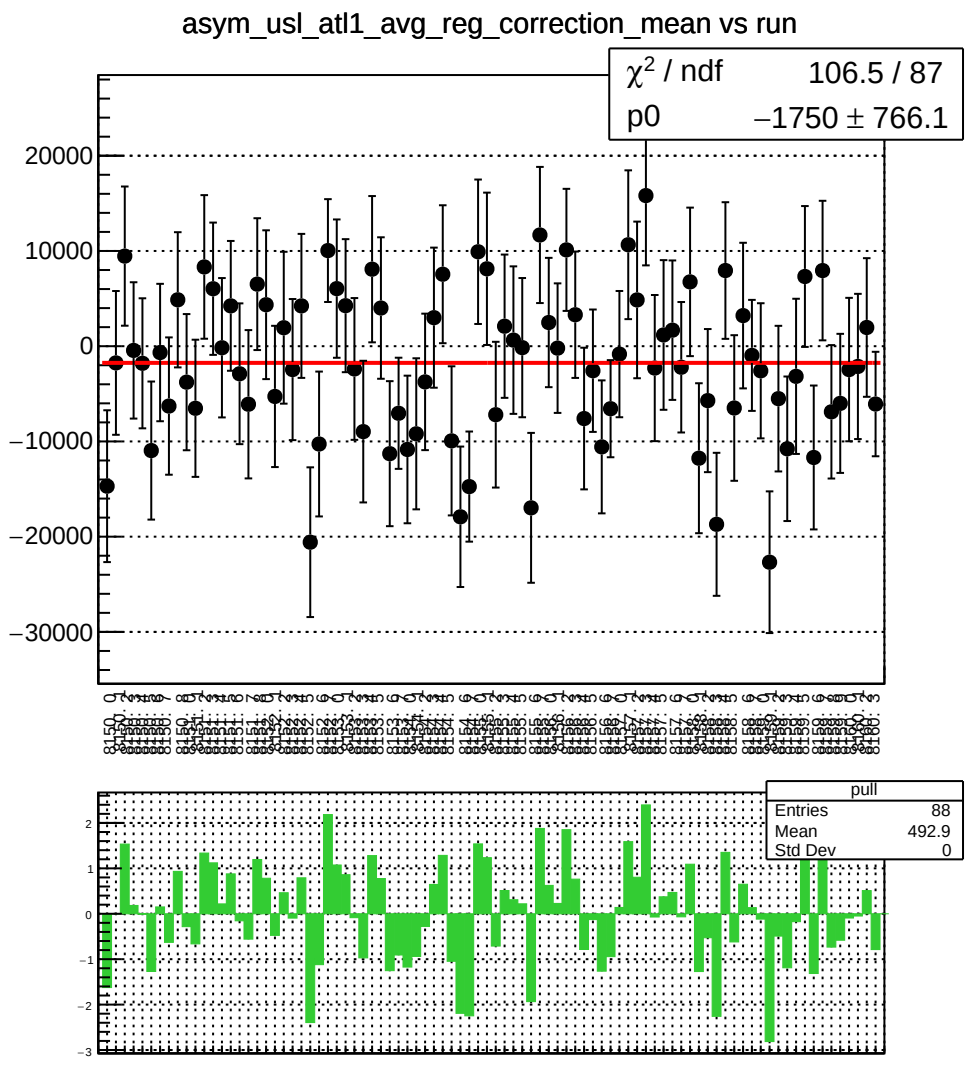

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.13 / 87
p0 5.574e−14 ± 4.147e−14
pull
Entries 88
Mean 75.59
Std Dev 0
pull1D
Entries 88
Mean 0.04254
Std Dev 0.9473

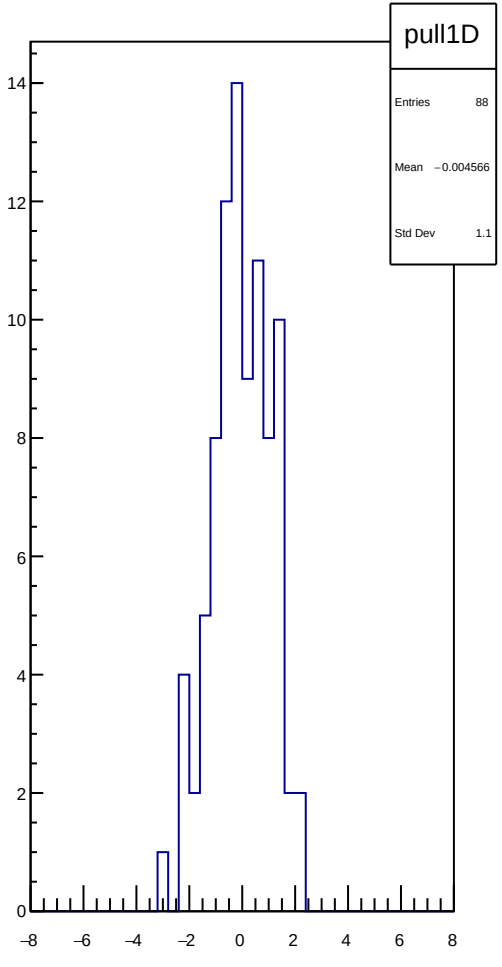

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.322e+05 / 87
p0 3.271e−11 ± 2.932e−14
0.25
0.2
0.15
0.1
0.05

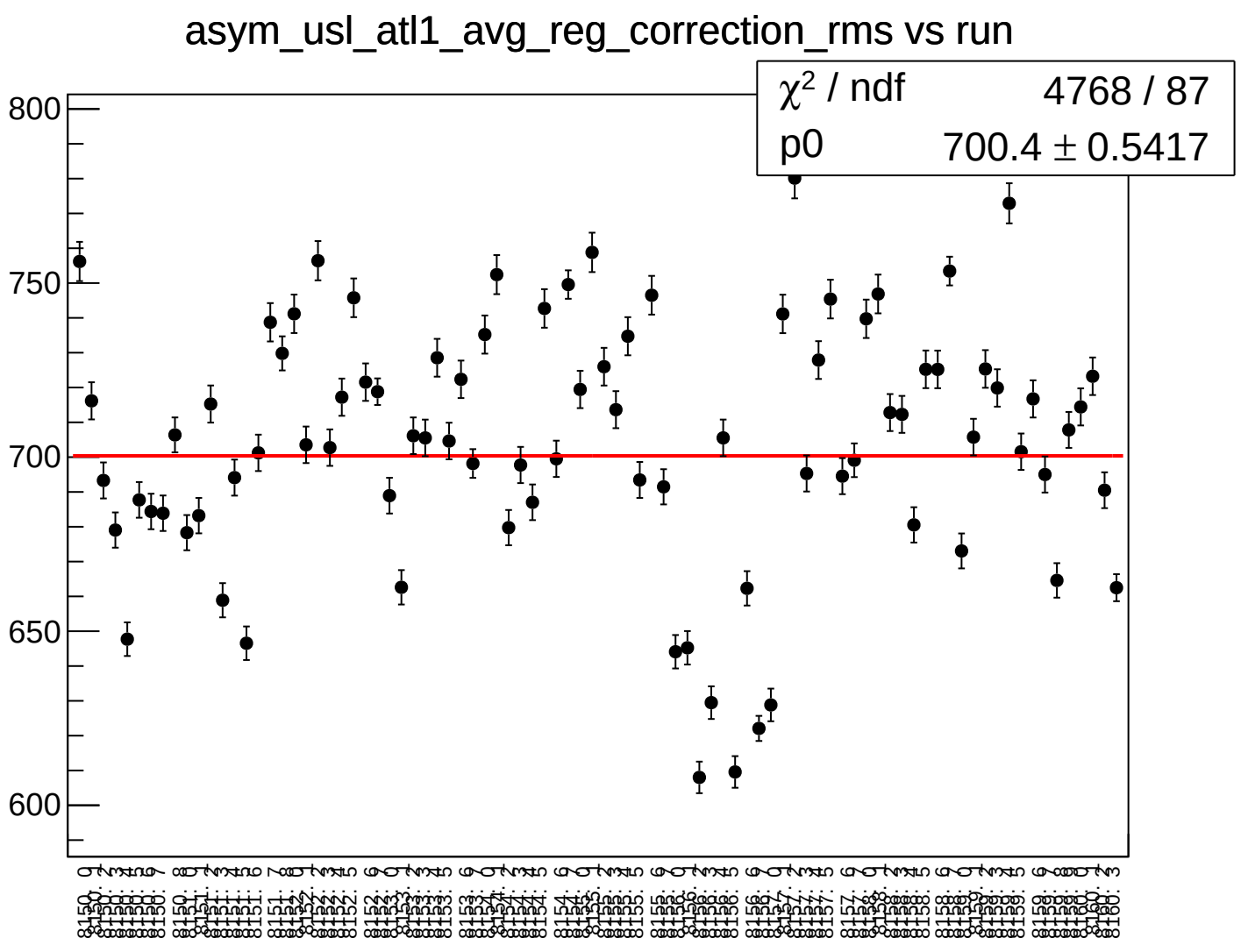

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 86.66 / 87
p0 113.7 ± 1571
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −16.26
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

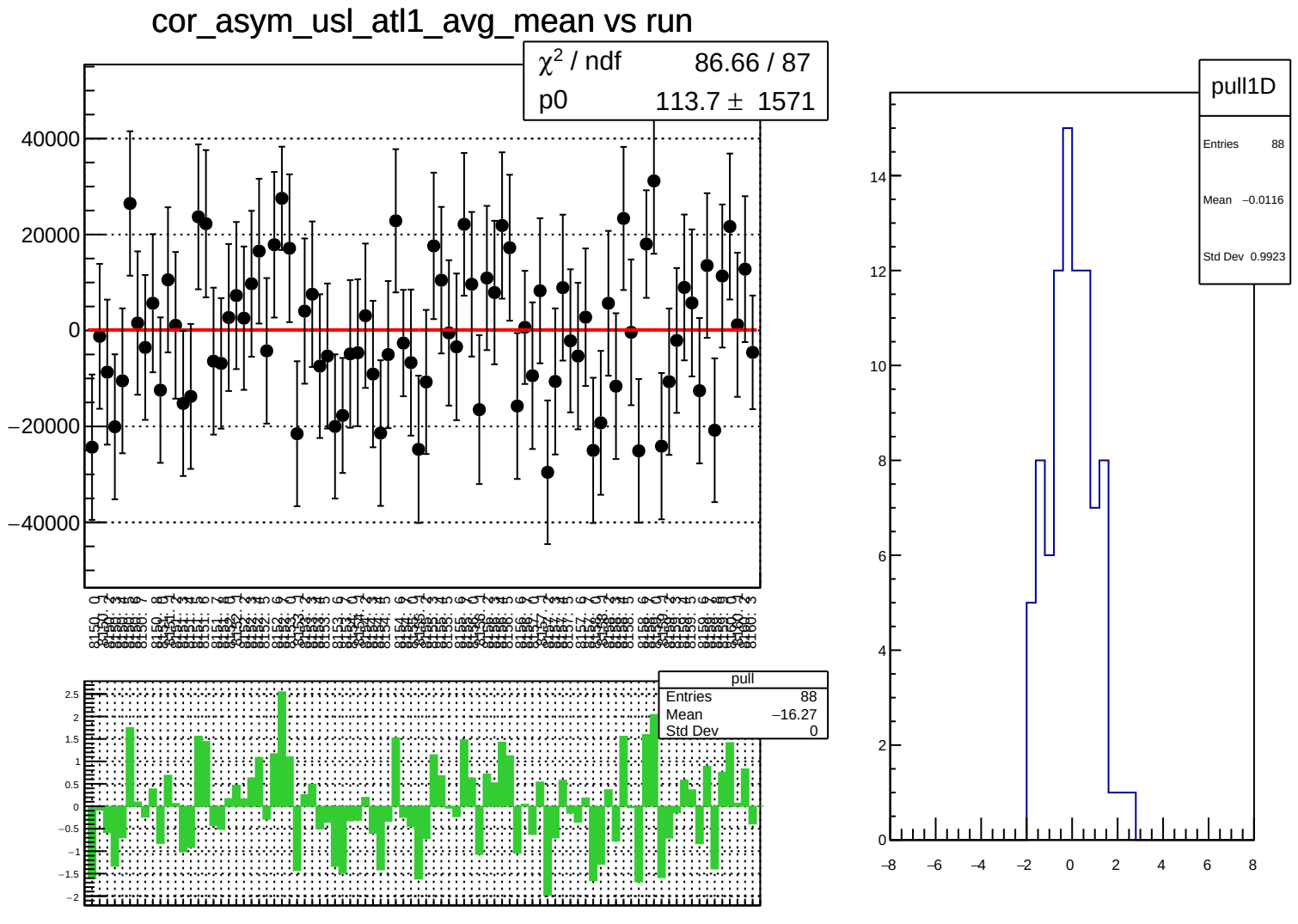

pull1D
Entries 88
Mean −0.0116
Std Dev 0.9923
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

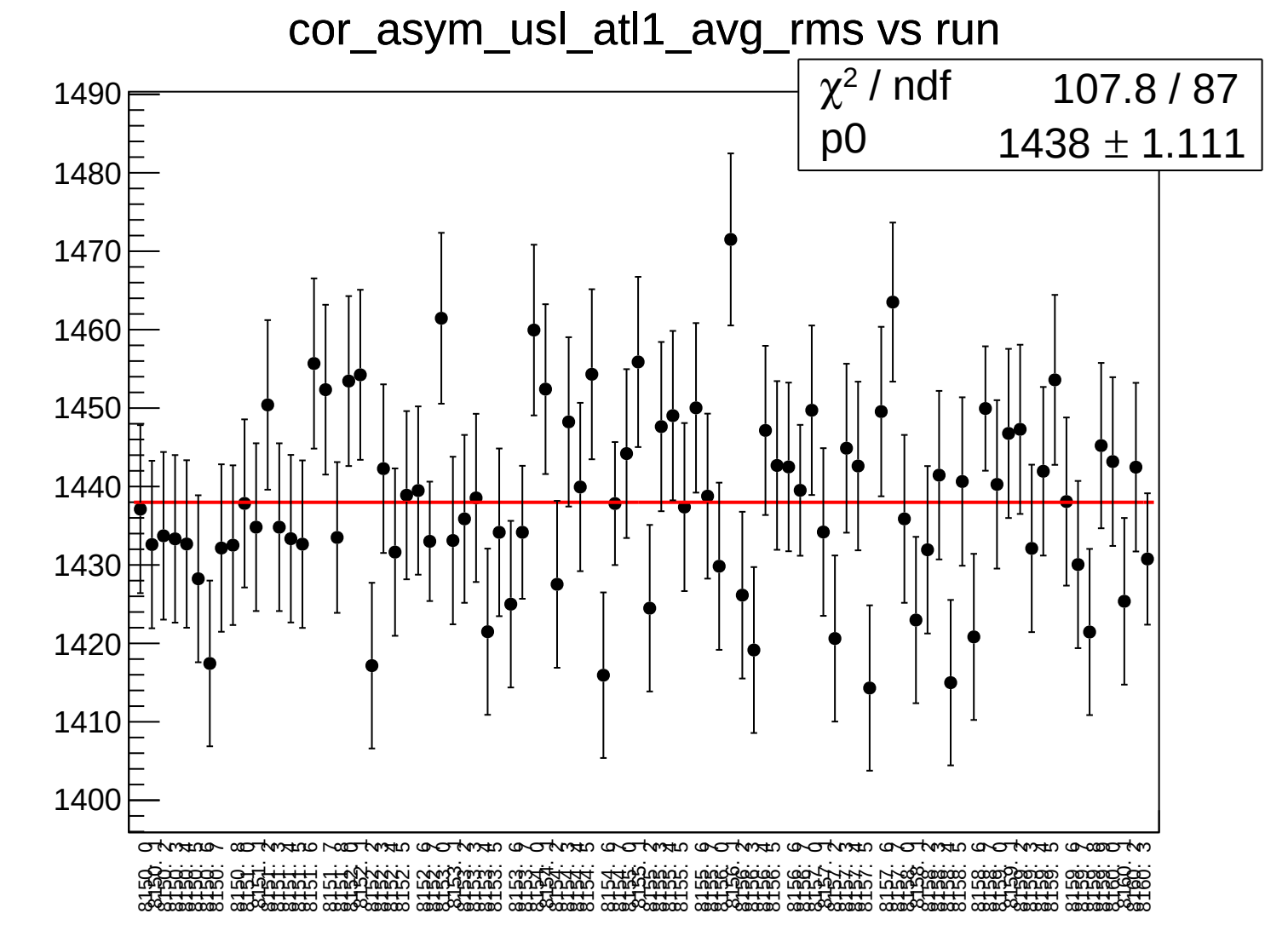

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 107.8 / 87
p0 1438 ± 1.111
1490
1480
1470
1460
1450
1440
1430
1420
1410
1400

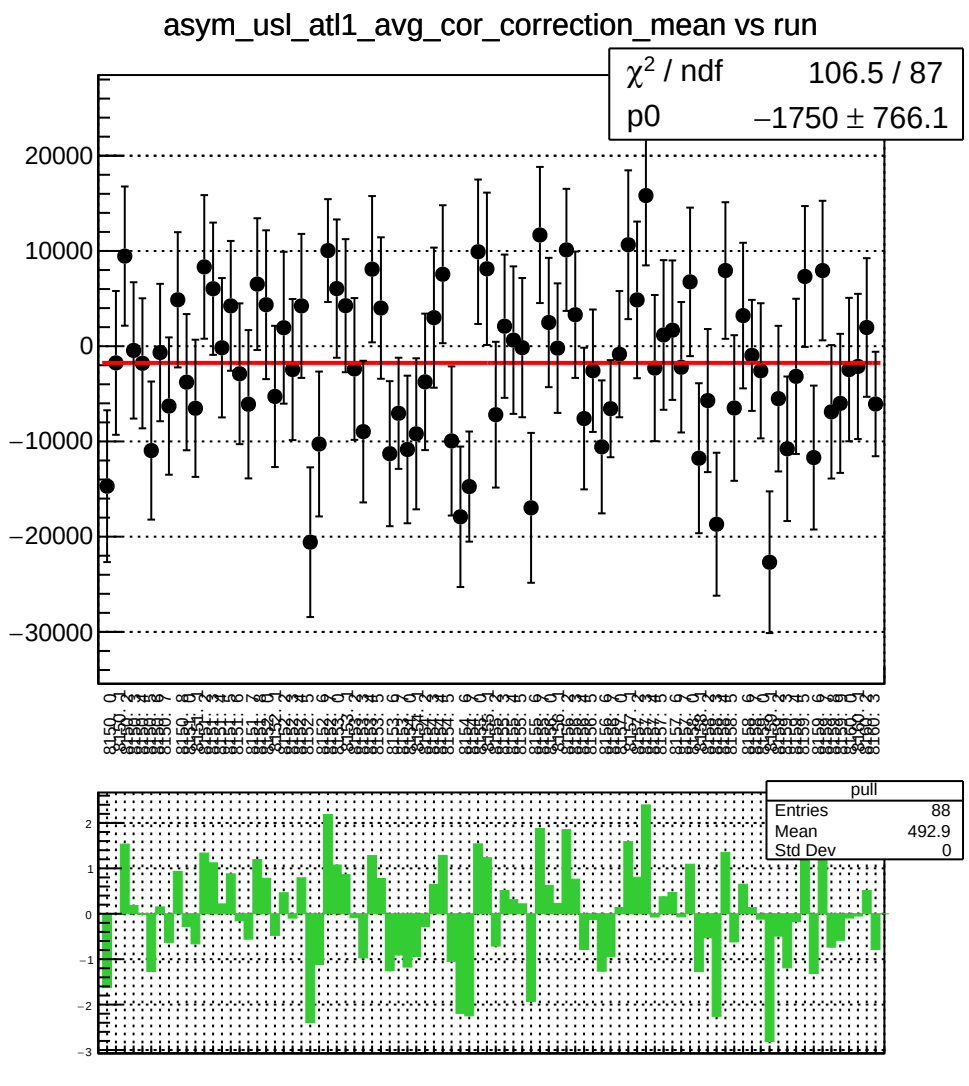

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 106.5 / 87
p0 −1750 ± 766.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 492.9
Std Dev 0
2
1
0
−1
−2
−3

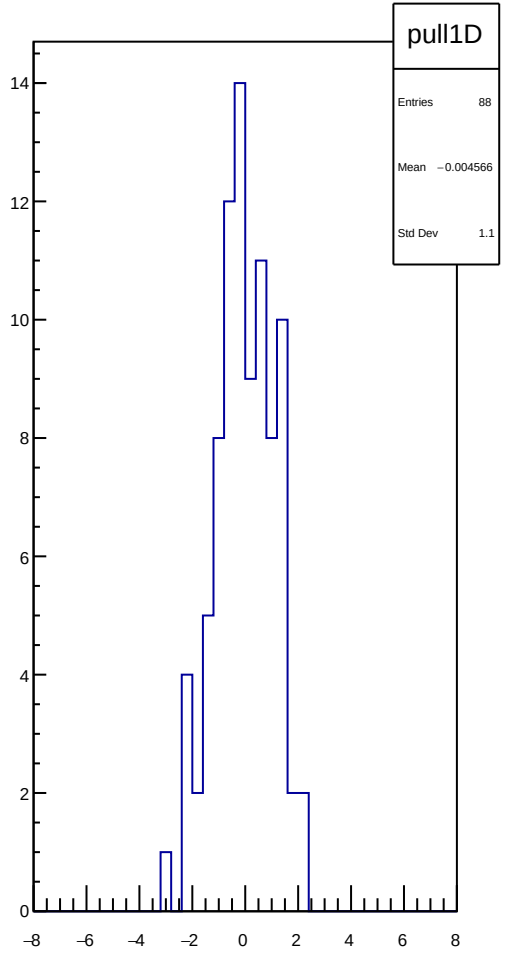

pull1D
Entries 88
Mean −0.004566
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

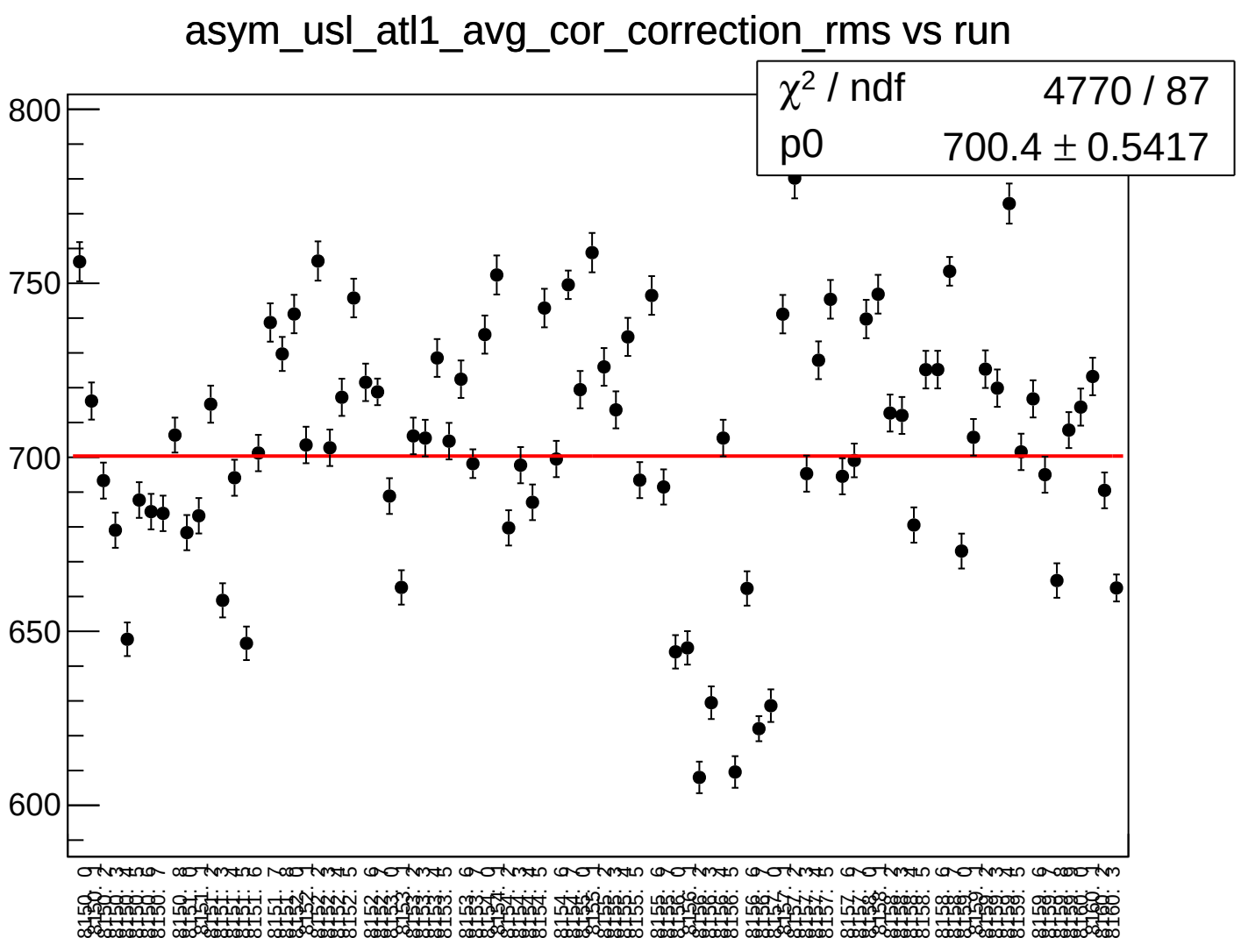

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 4768 / 87
p0 700.4 ± 0.5417
800
750
700
650
600

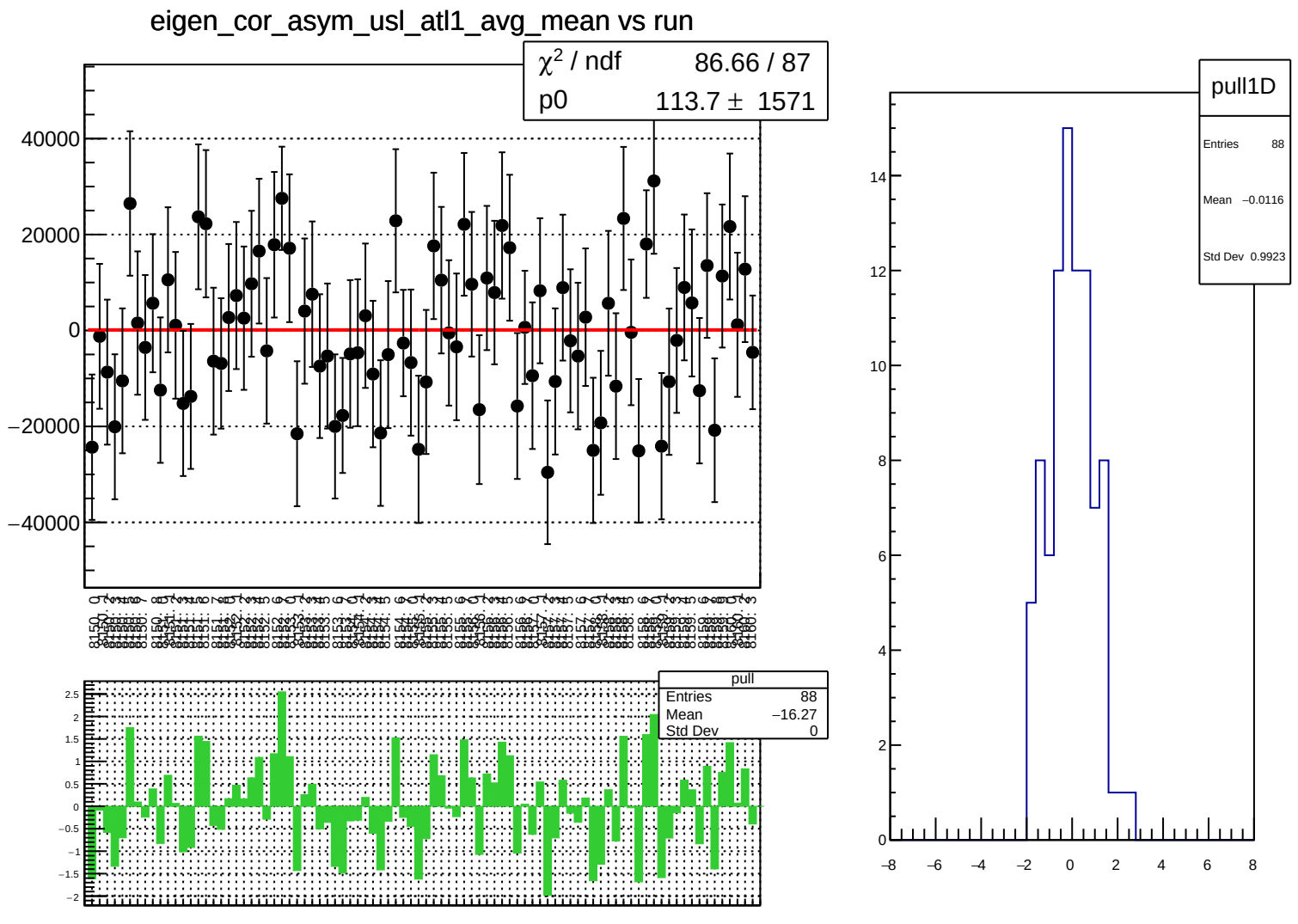

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 86.66 / 87
p0 113.7 ± 1571
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −16.27
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.0116
Std Dev 0.9923
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

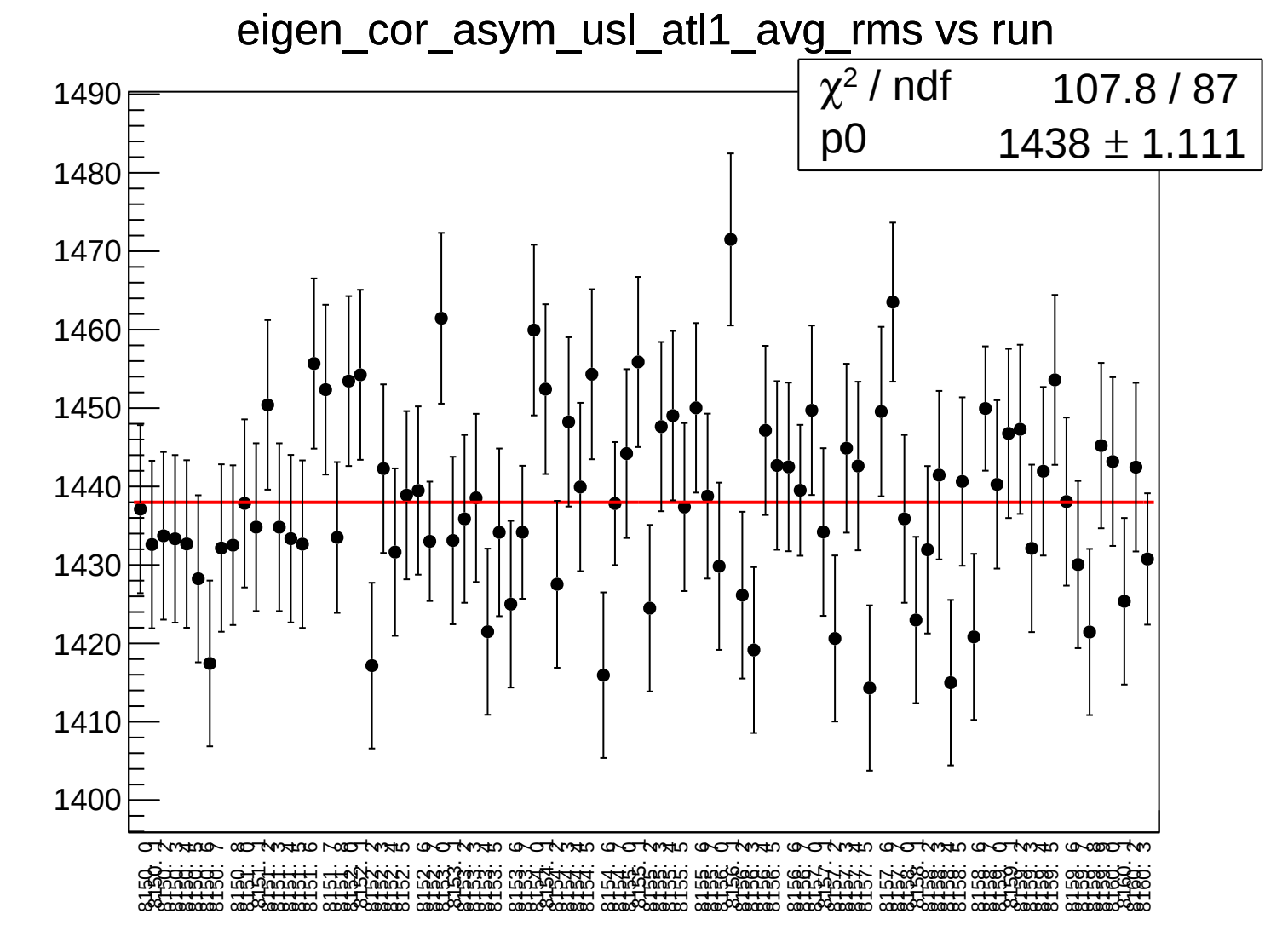

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 107.8 / 87
p0 1438 ± 1.111
1490
1480
1470
1460
1450
1440
1430
1420
1410
1400

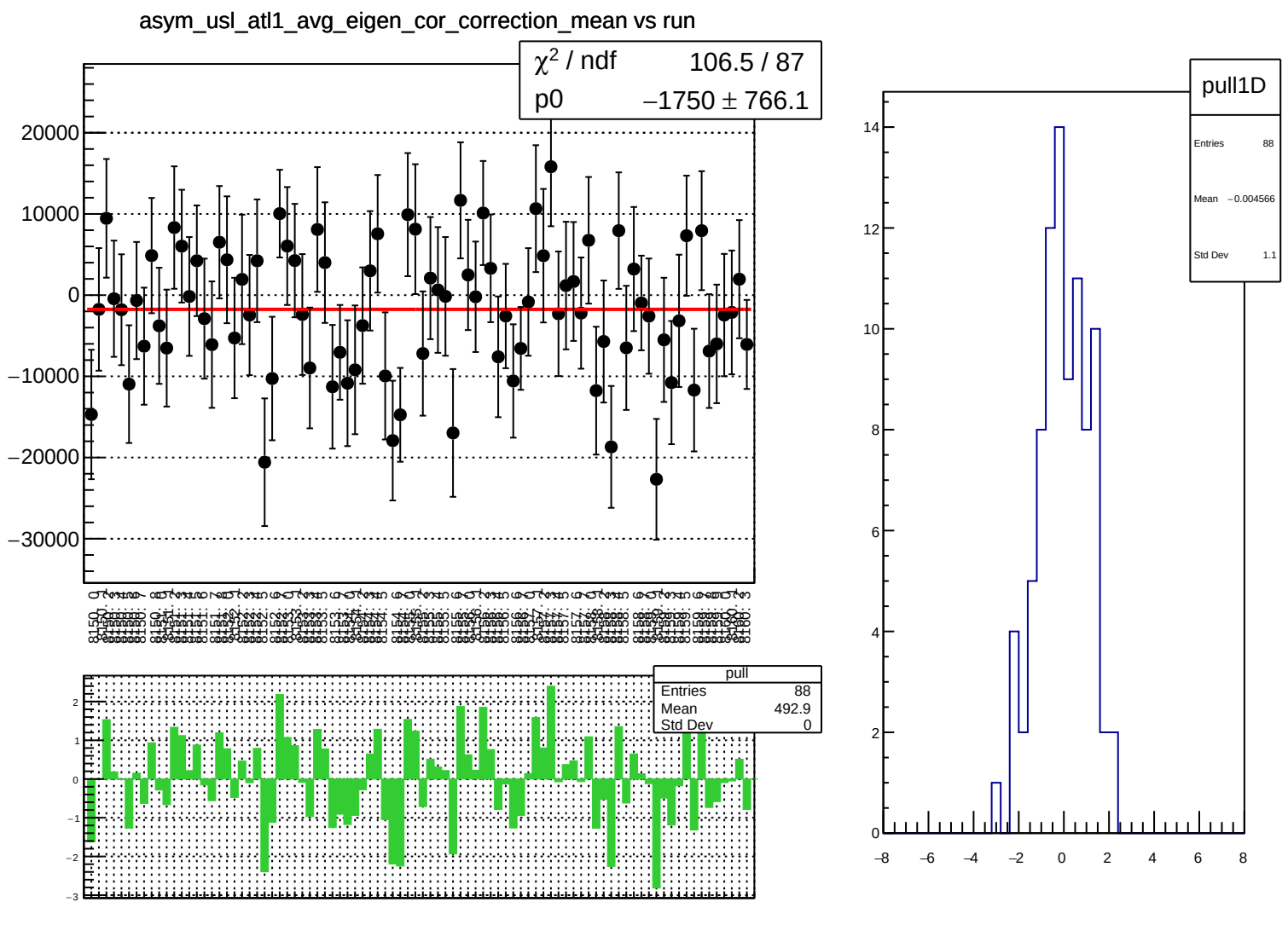

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 106.5 / 87
p0 −1750 ± 766.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 492.9
Std Dev 0
2
1
0
−1
−2
−3

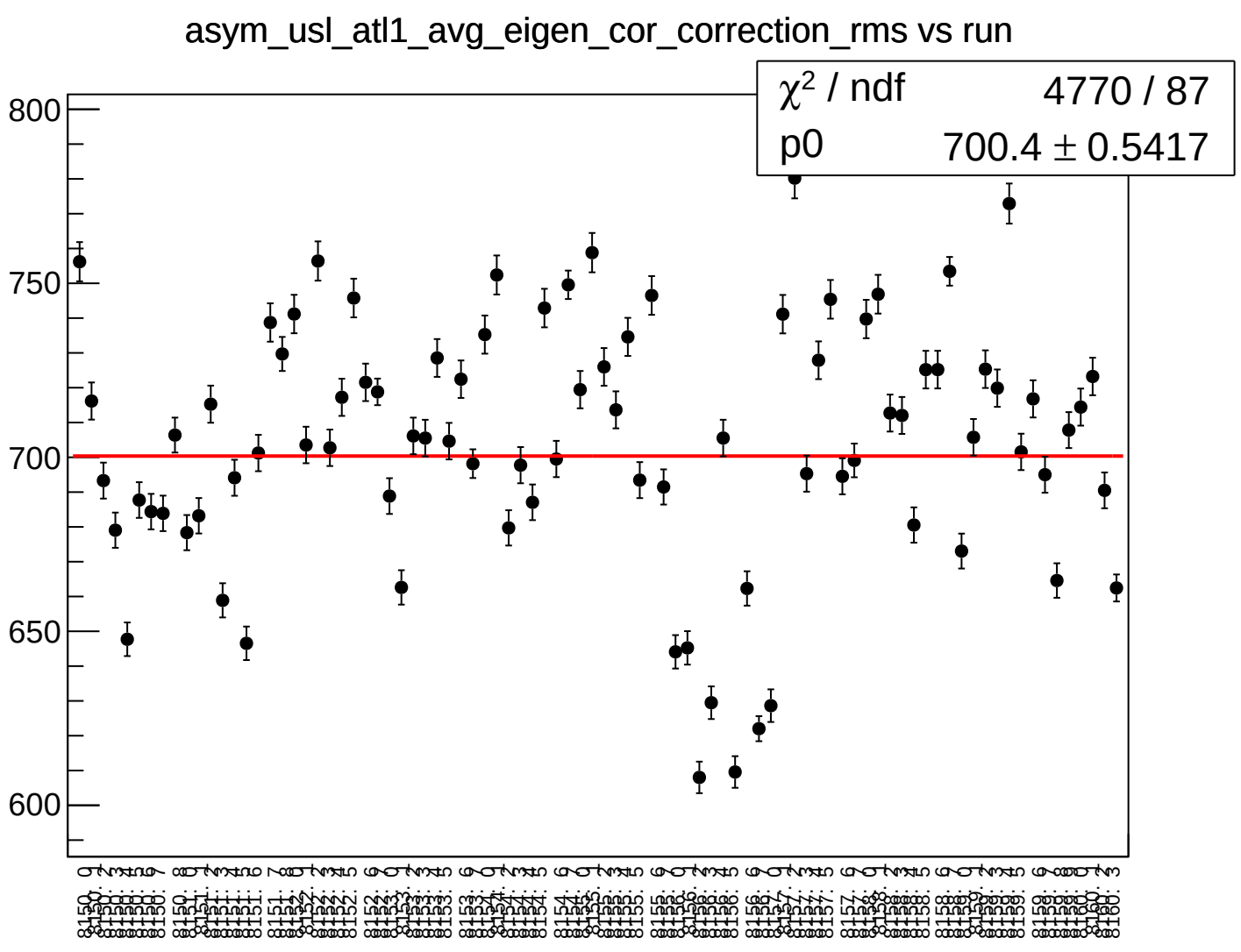

pull1D
Entries 88
Mean −0.004566
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

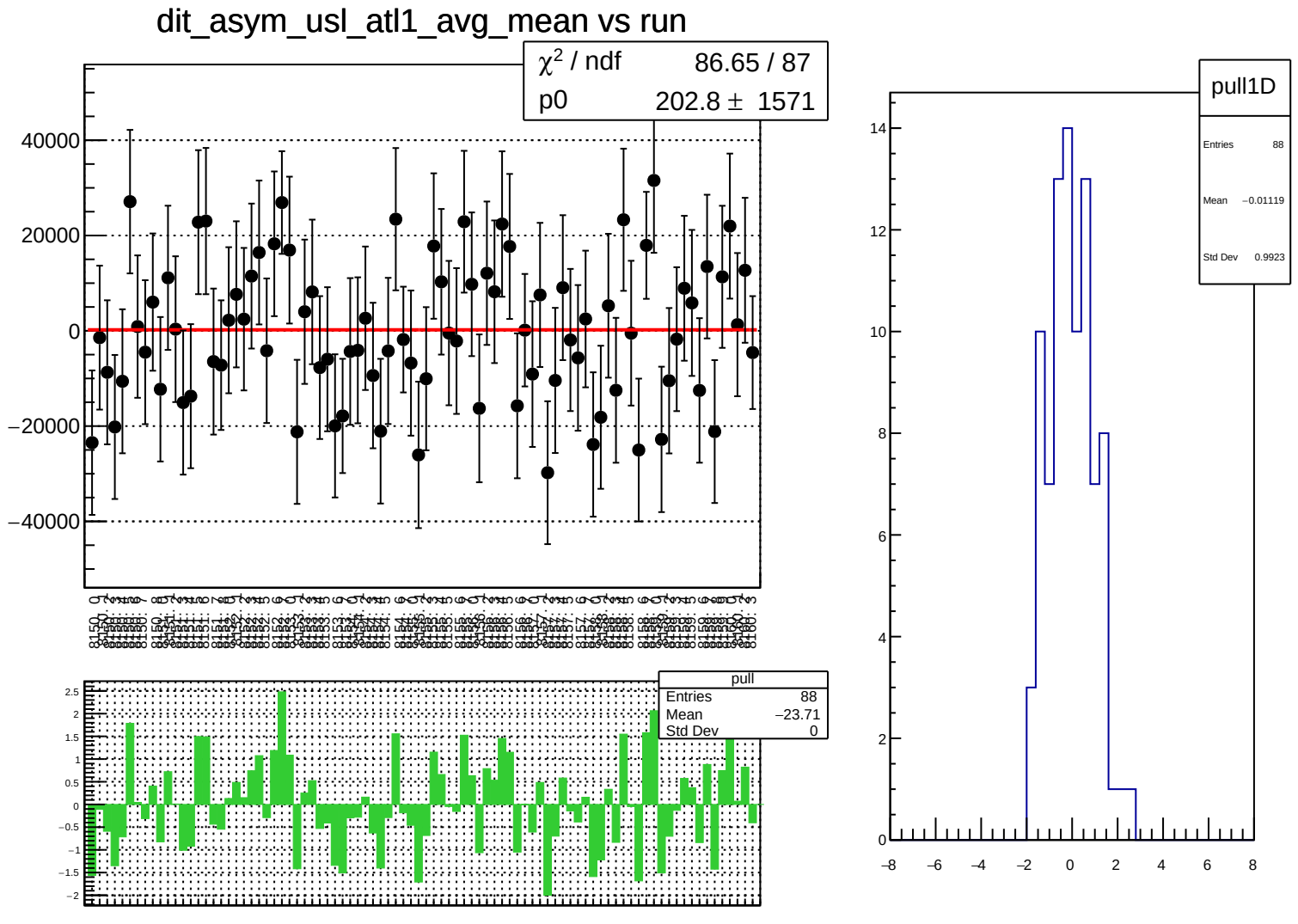

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 4770 / 87
p0 700.4 ± 0.5417
800
750
700
650
600

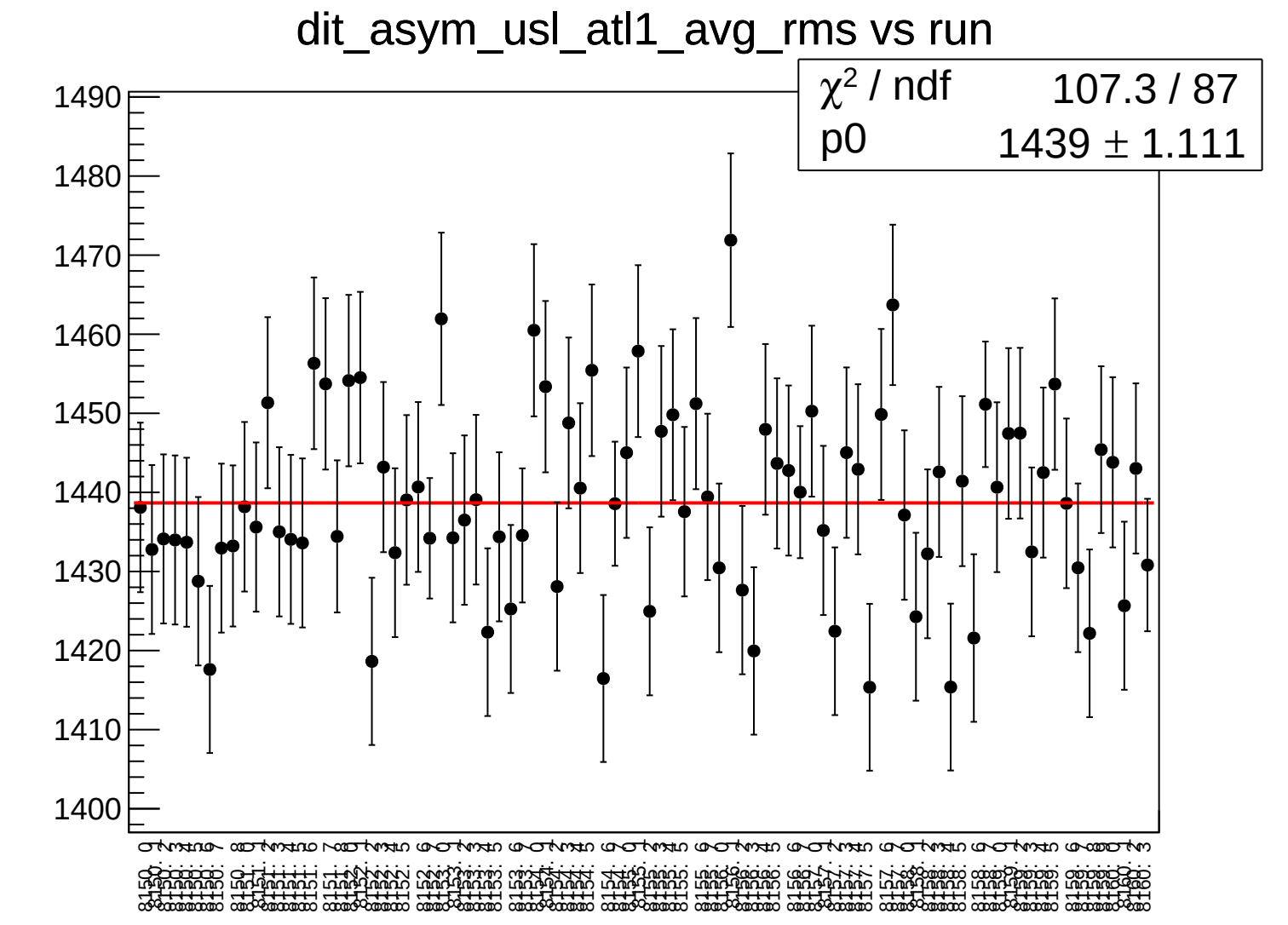

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 86.66 / 87
p0 113.7 ± 1571
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −16.27
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.0116
Std Dev 0.9923
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

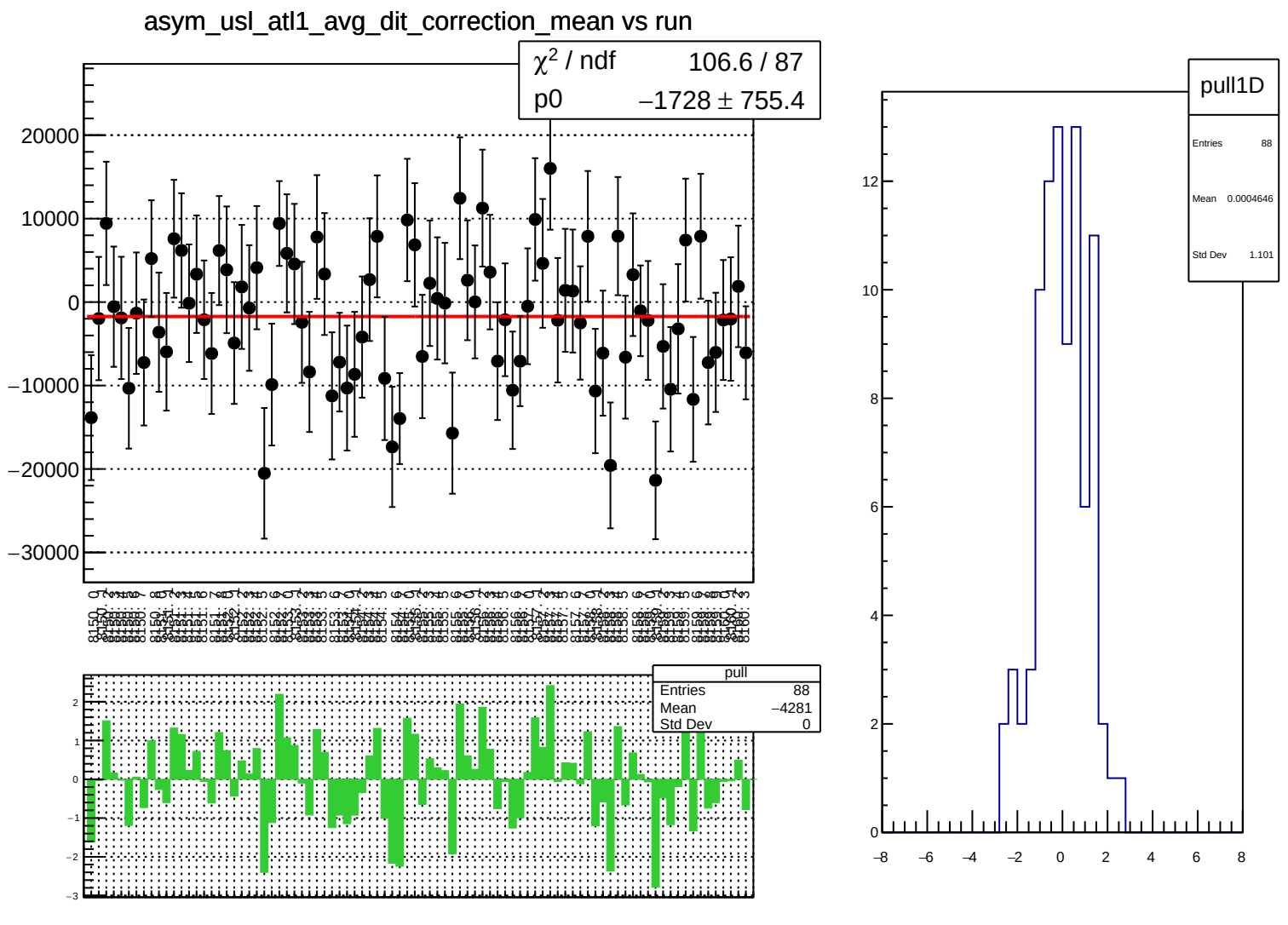

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 107.8 / 87
p0 1438 ± 1.111
1490
1480
1470
1460
1450
1440
1430
1420
1410
1400

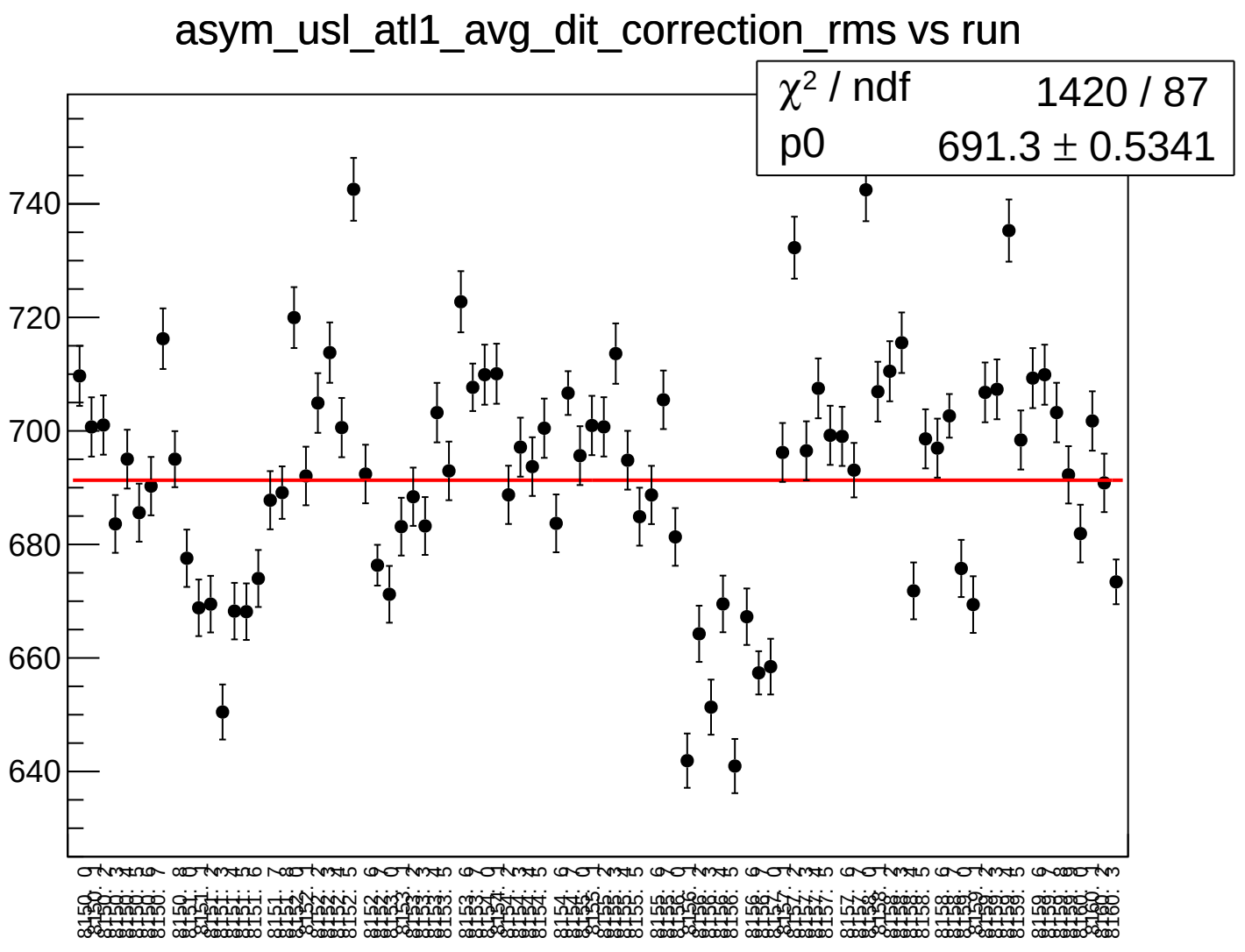

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 106.5 / 87
p0 −1750 ± 766.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 492.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.004566
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

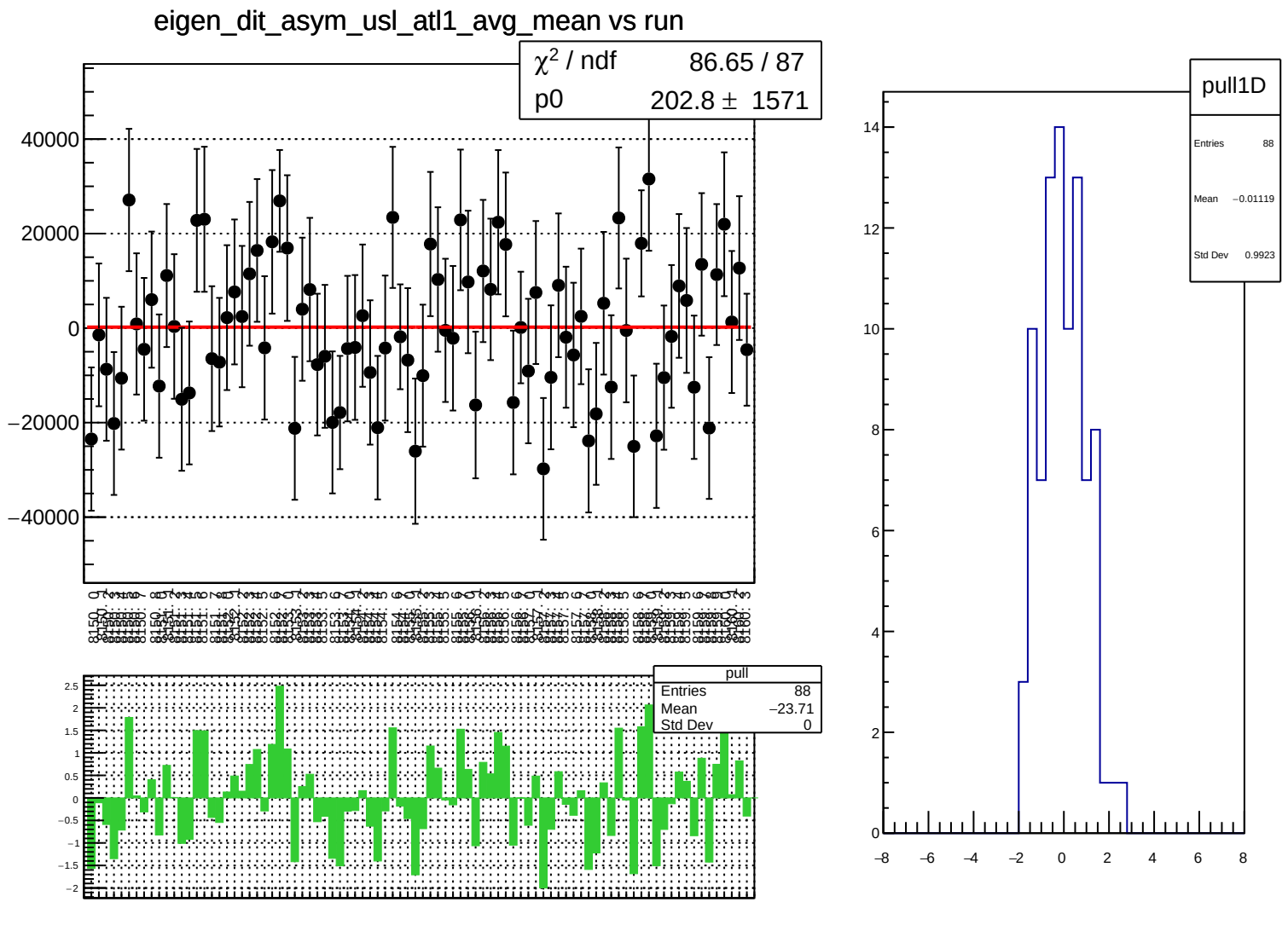

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 4770 / 87
p0 700.4 ± 0.5417
800
750
700
650
600

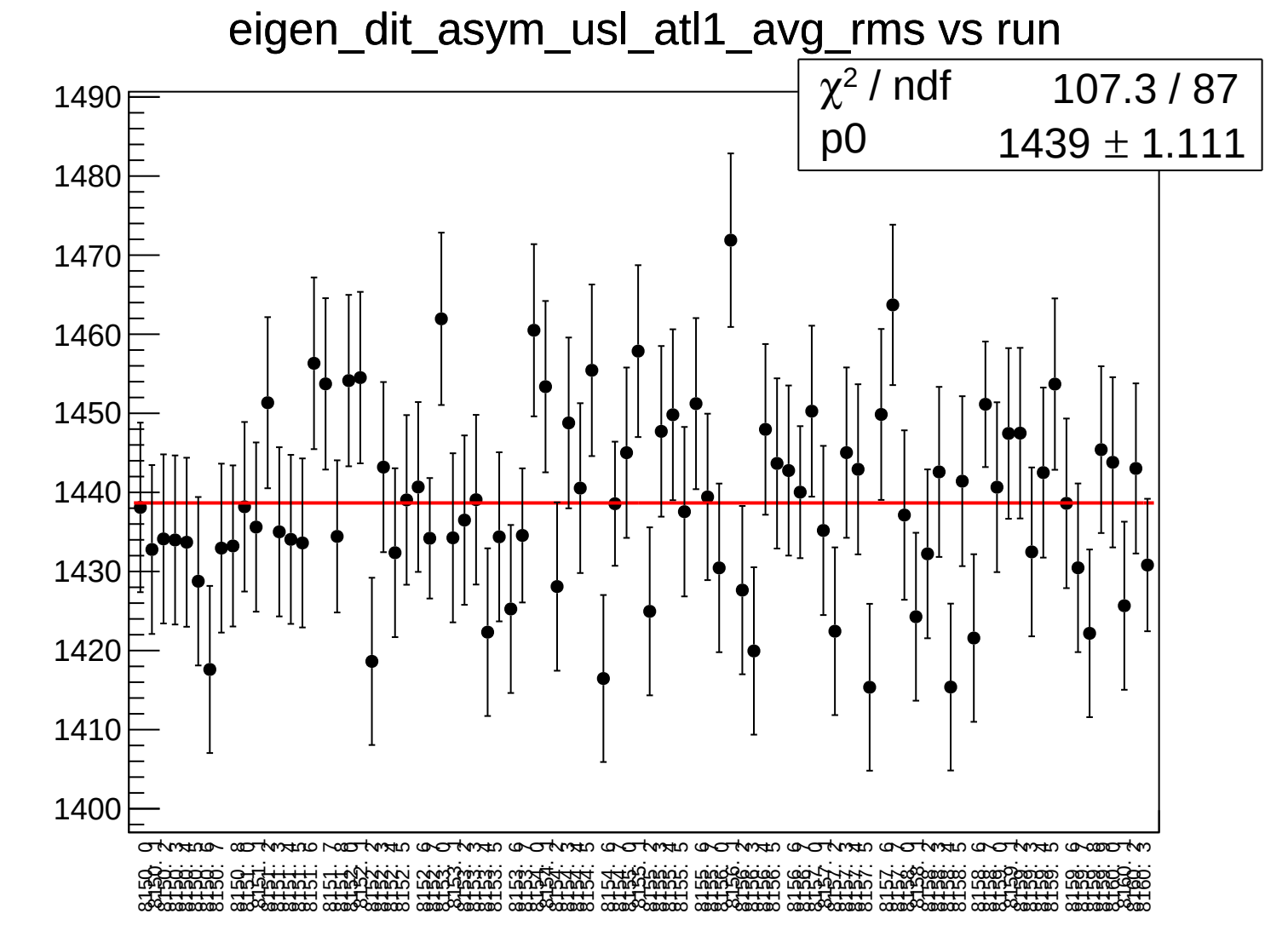

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 86.65 / 87
p0 202.8 ± 1571
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −23.71
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.01119
Std Dev 0.9923
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

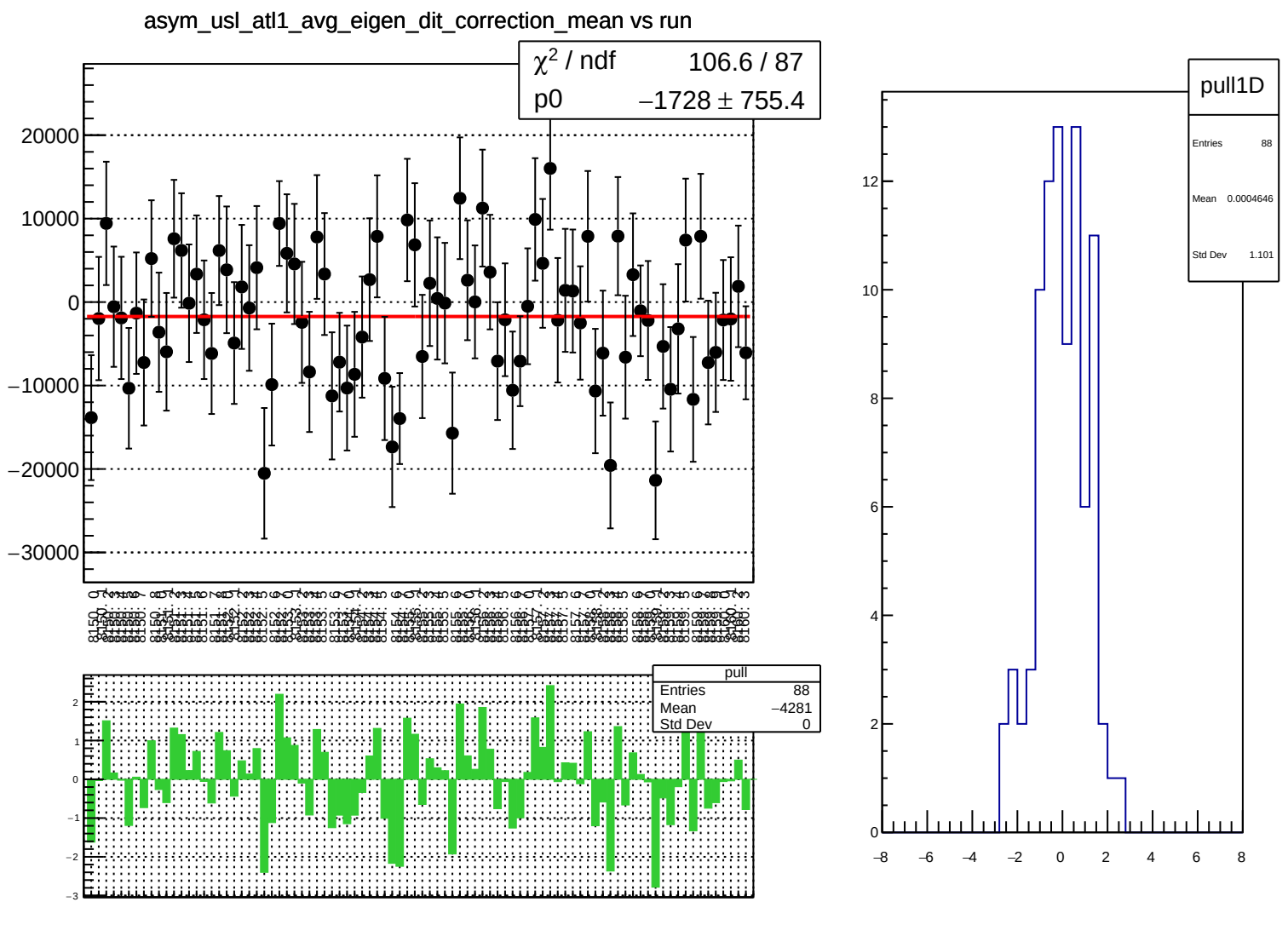

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 107.3 / 87
p0 1439 ± 1.111
1490
1480
1470
1460
1450
1440
1430
1420
1410
1400

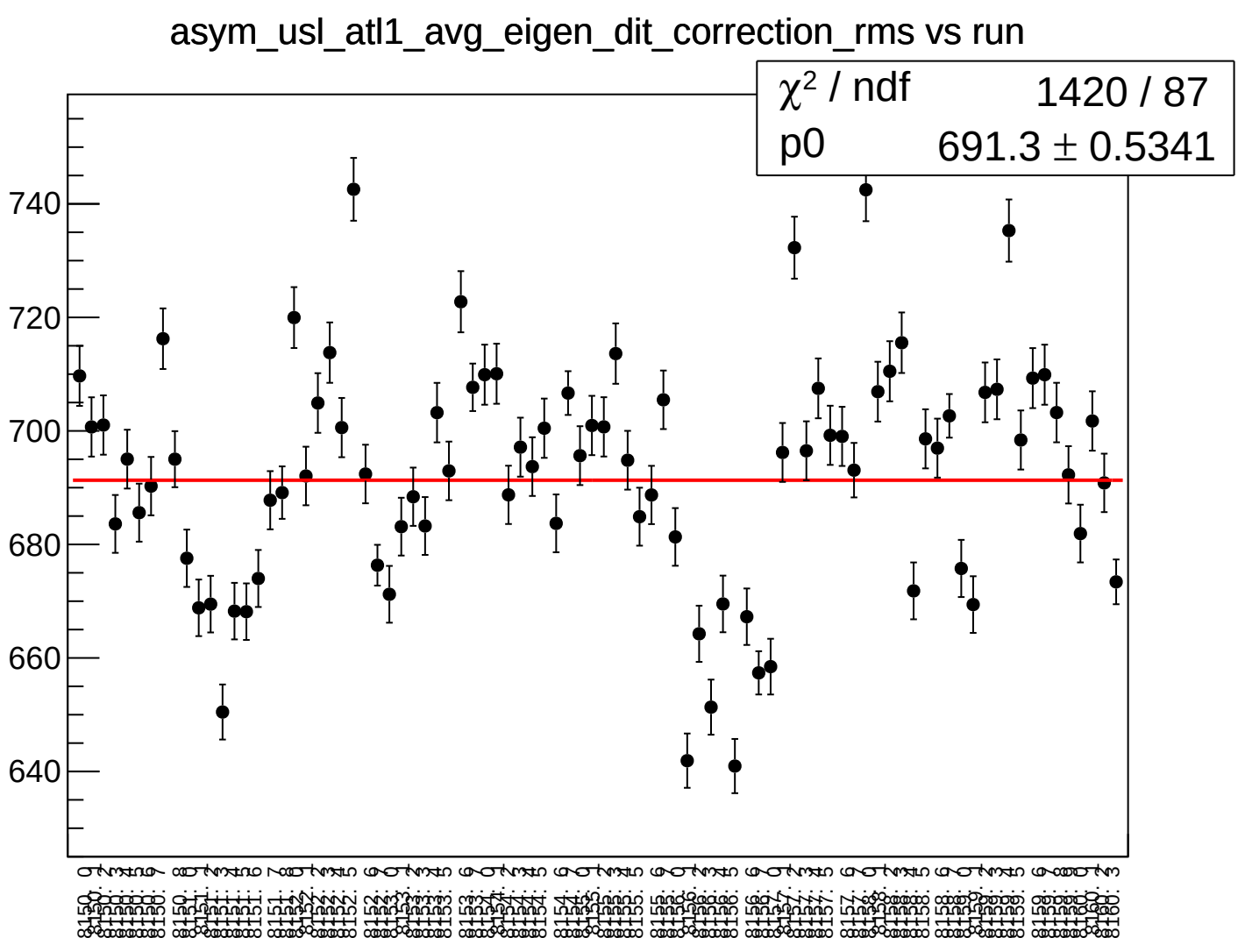

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 106.6 / 87
p0 −1728 ± 755.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −4281
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0004646
Std Dev 1.101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

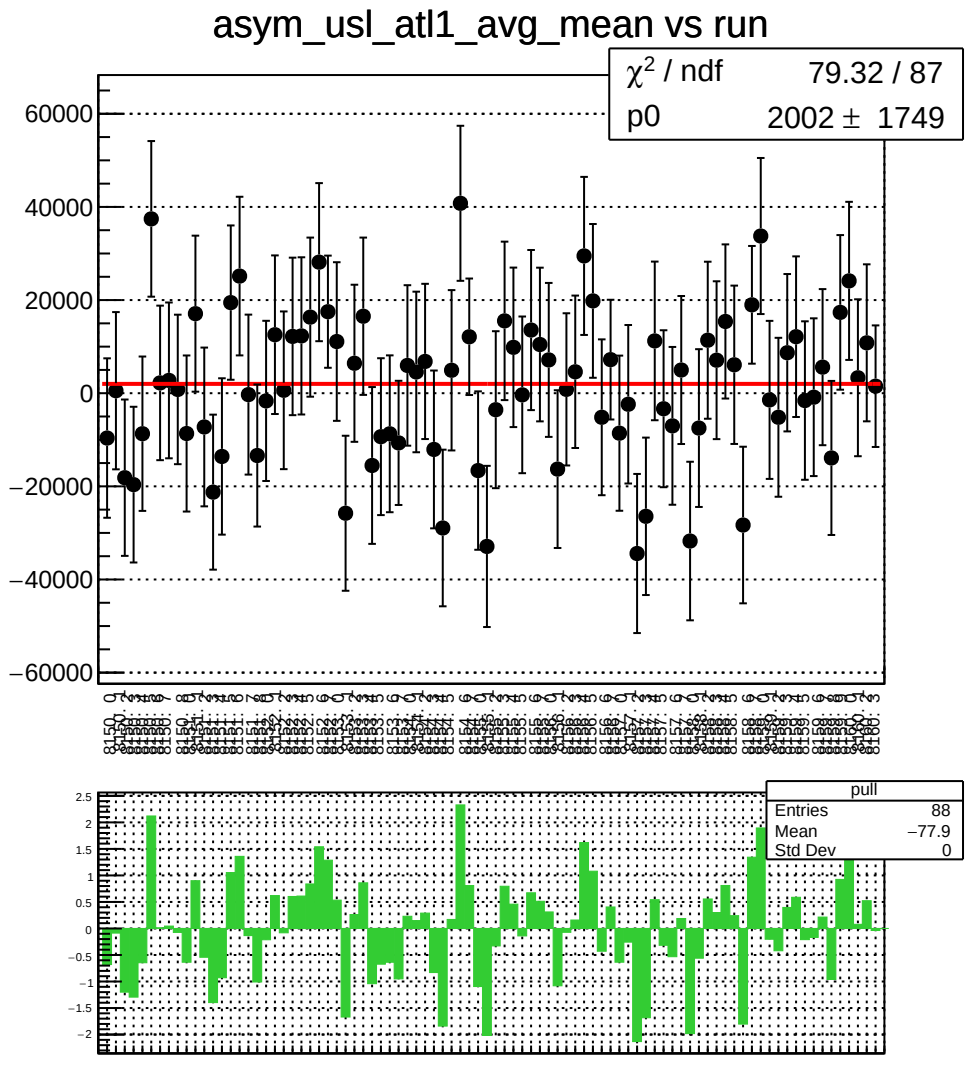

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1420 / 87
p0 691.3 ± 0.5341
740
720
700
680
660
640

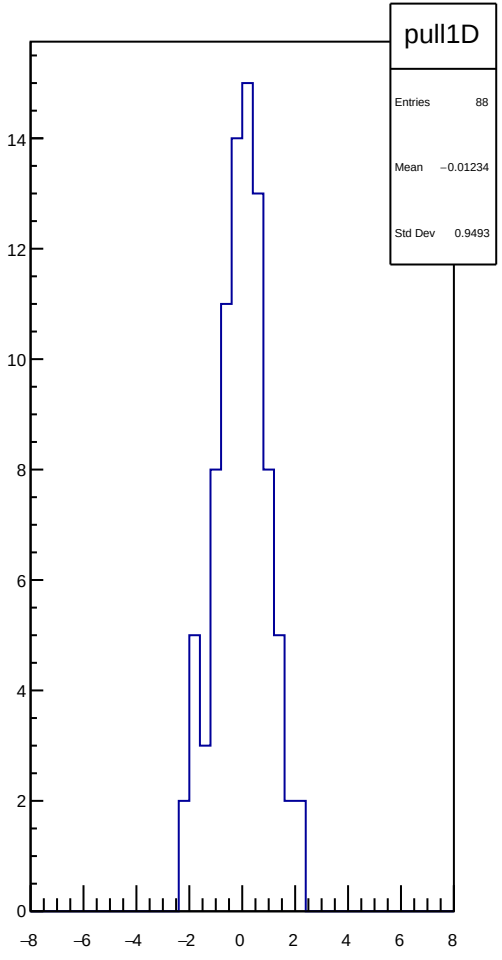

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 86.65 / 87
p0 202.8 ± 1571
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −23.71
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.01119
Std Dev 0.9923
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

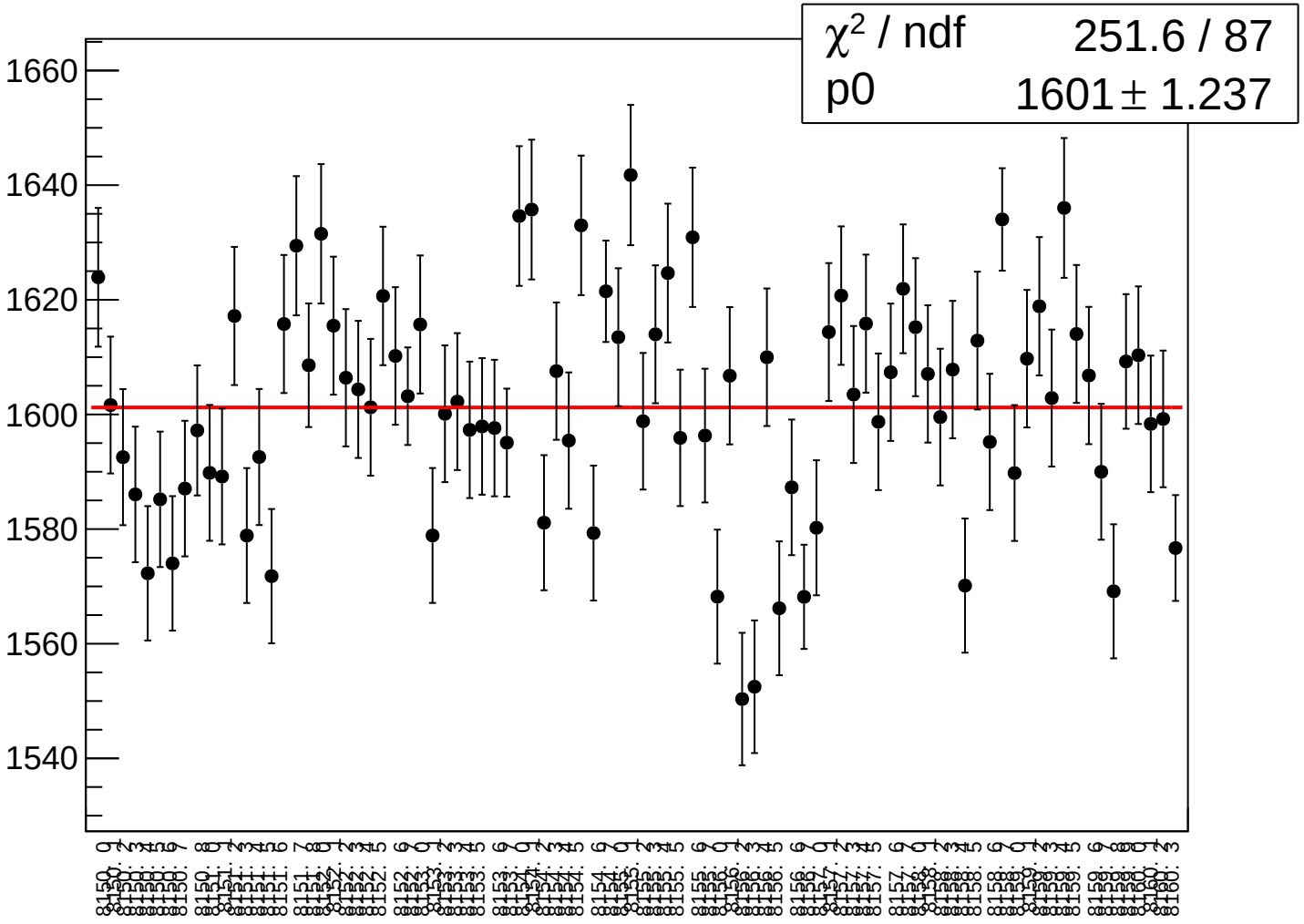

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 107.3 / 87
p0 1439 ± 1.111
1490
1480
1470
1460
1450
1440
1430
1420
1410
1400

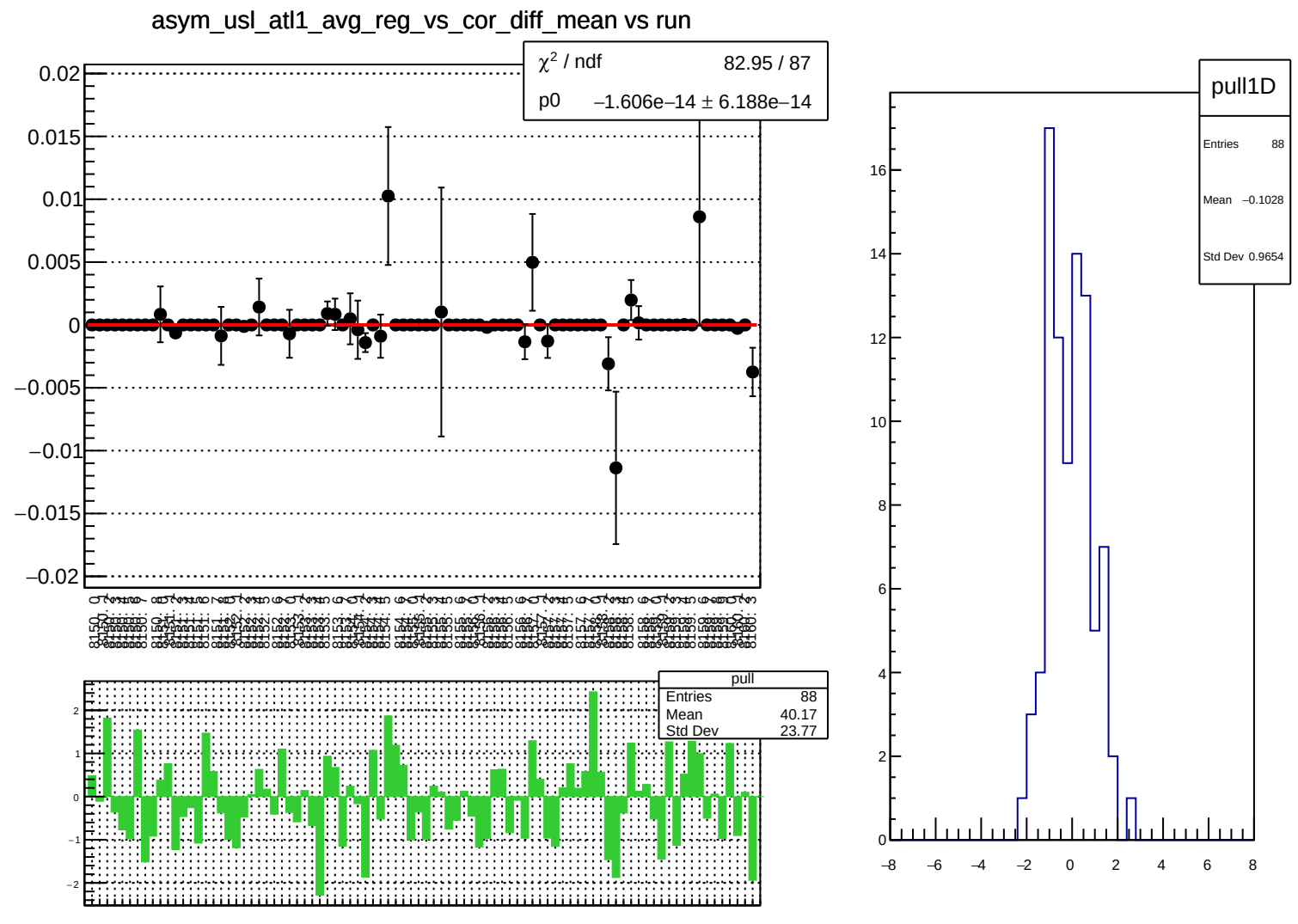

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 106.6 / 87
p0 −1728 ± 755.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −4281
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0004646
Std Dev 1.101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

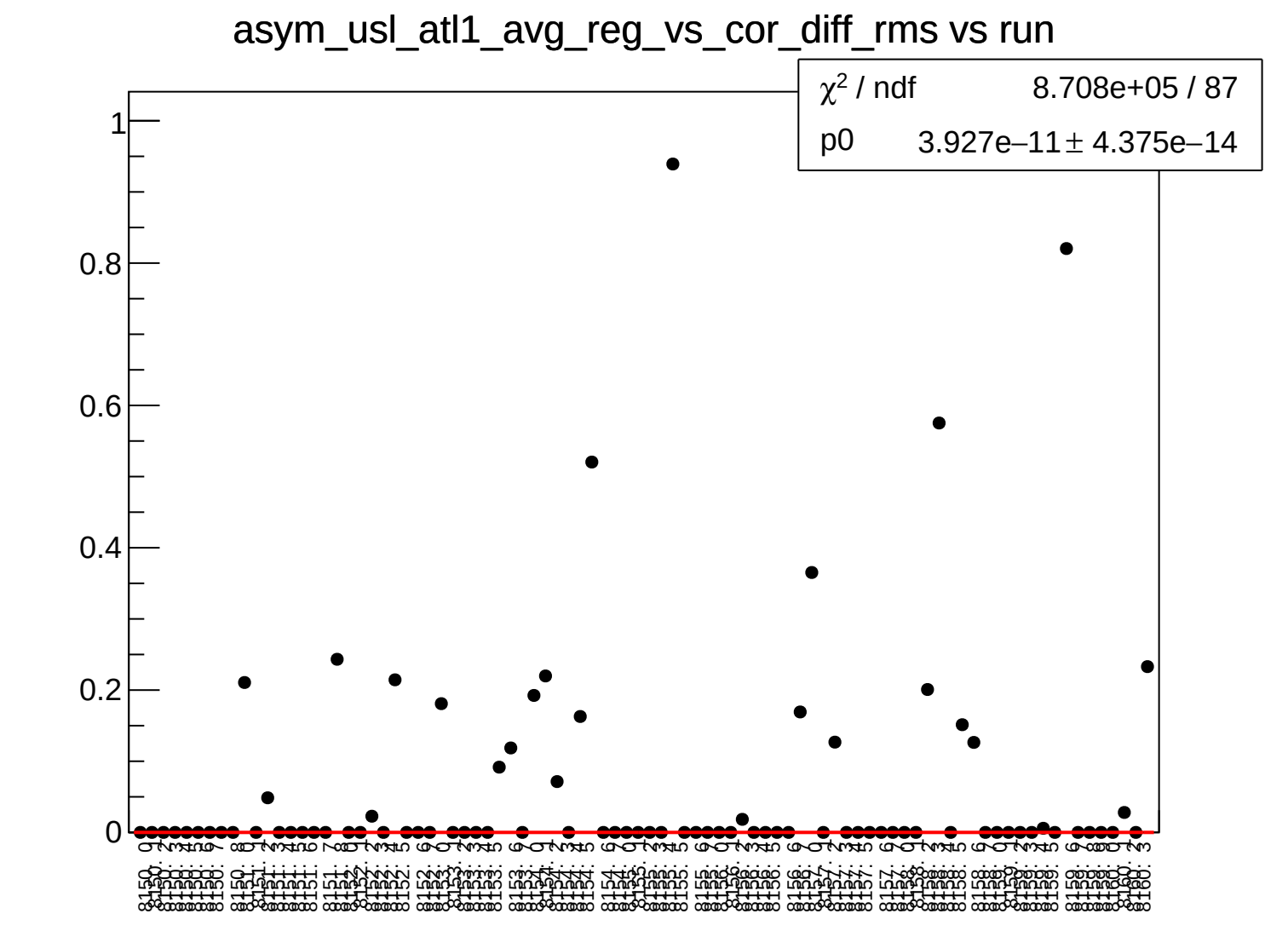

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1420 / 87
p0 691.3 ± 0.5341
740
720
700
680
660
640

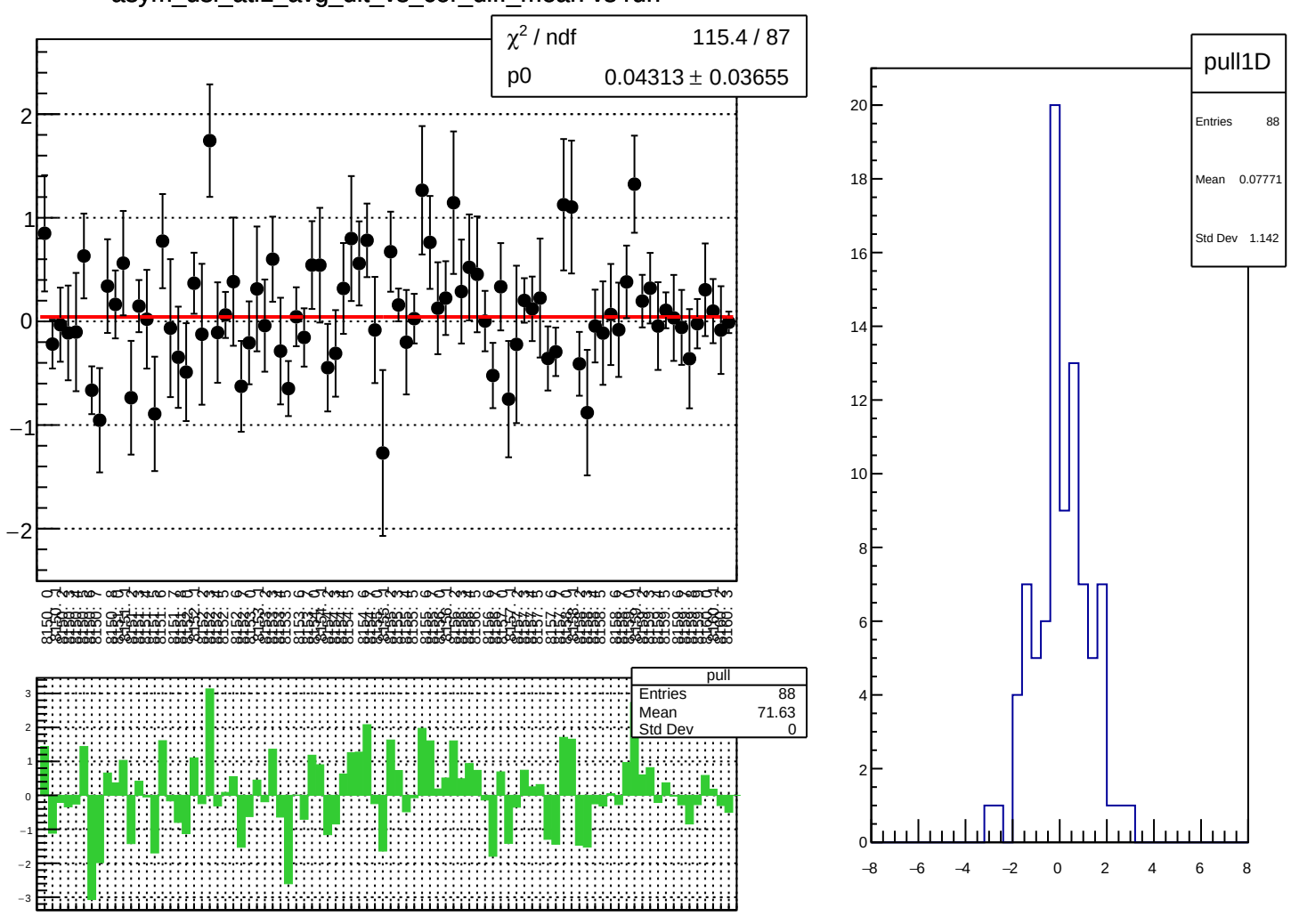

asym_usl_atl1_avg_mean vs run
χ² / ndf 79.32 / 87
p0 2002 ± 1749
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −77.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

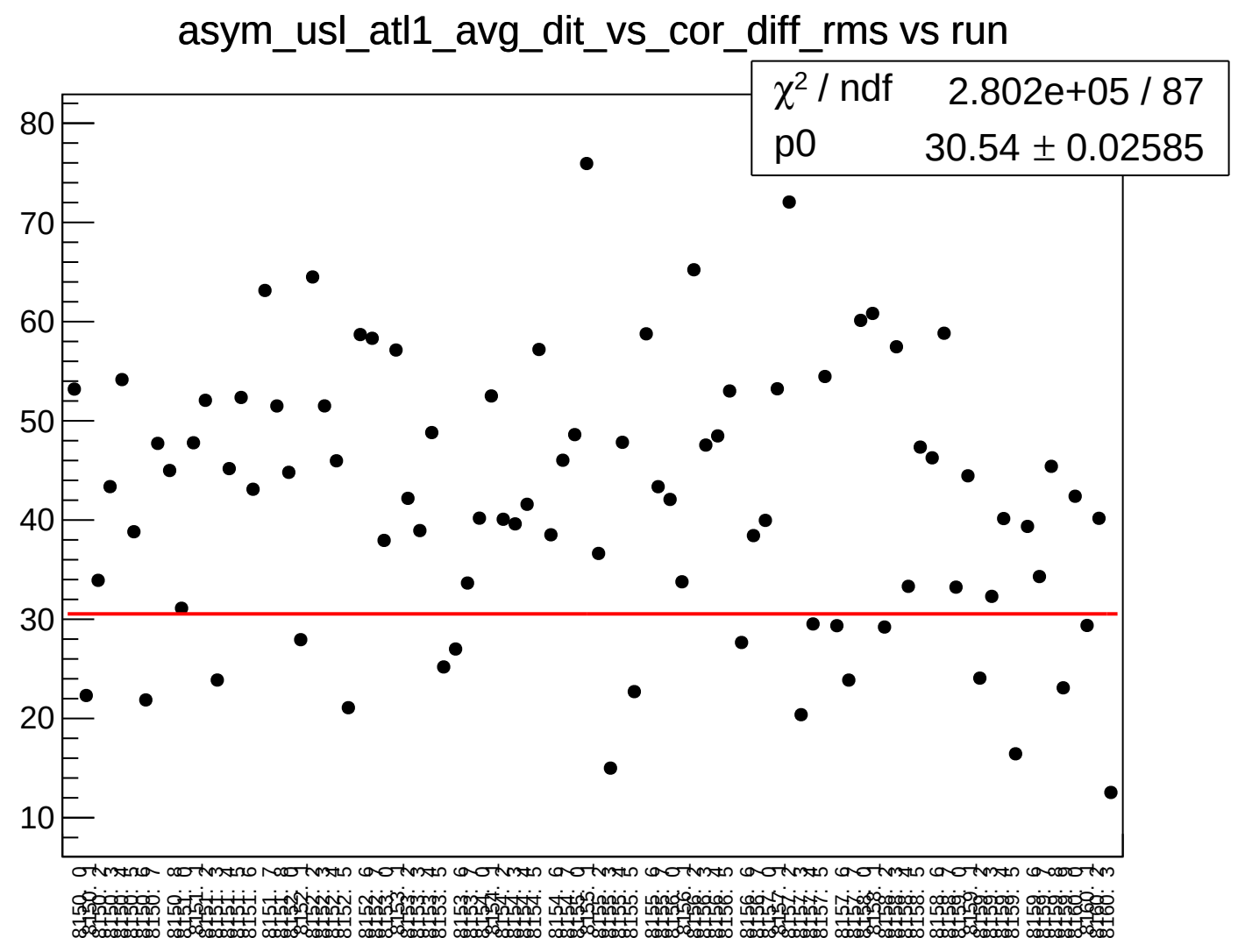

pull1D
Entries 88
Mean −0.01234
Std Dev 0.9493
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

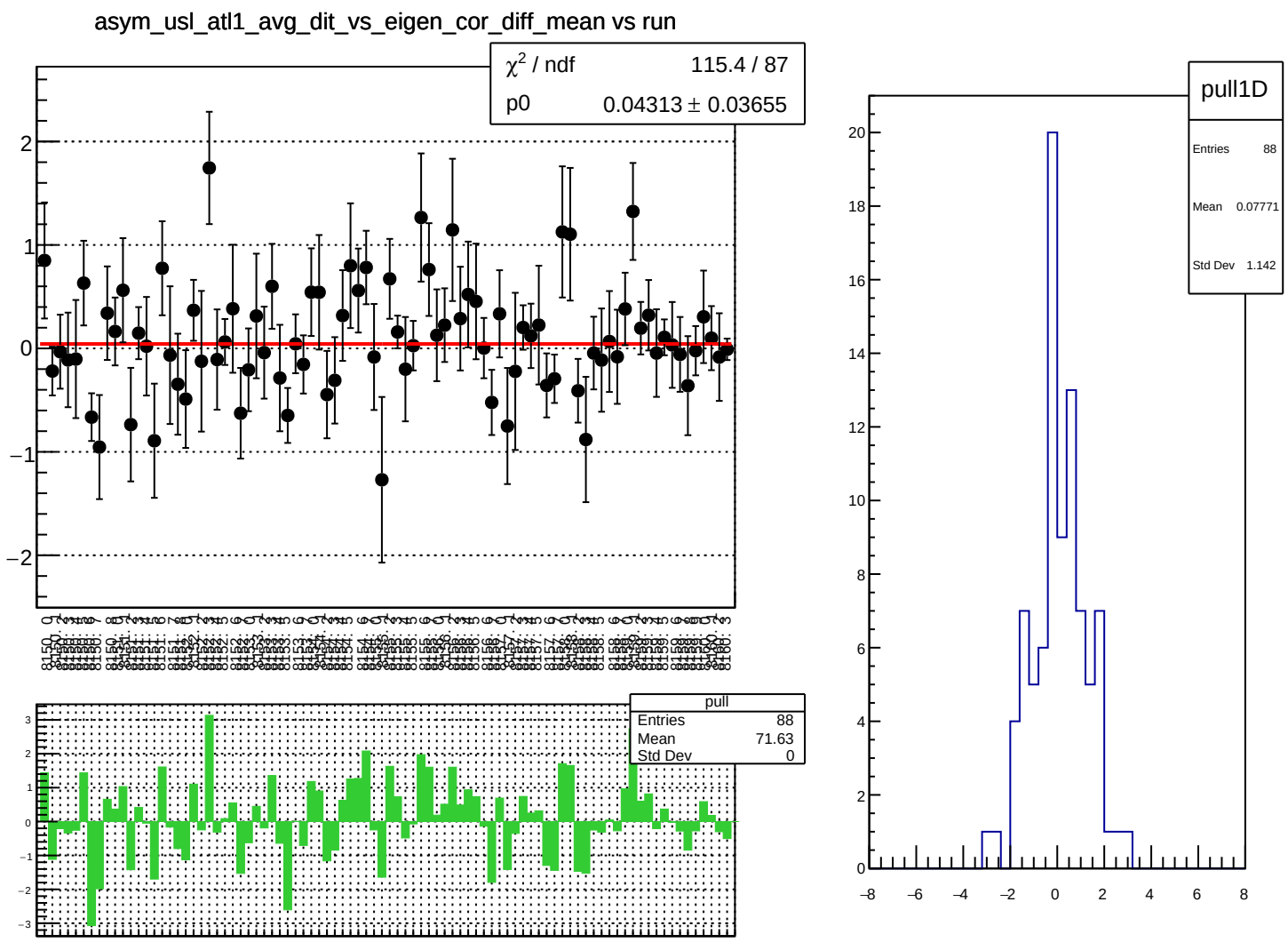

asym_usl_atl1_avg_rms vs run
χ² / ndf 251.6 / 87
p0 1601 ± 1.237
1660
1640
1620
1600
1580
1560
1540

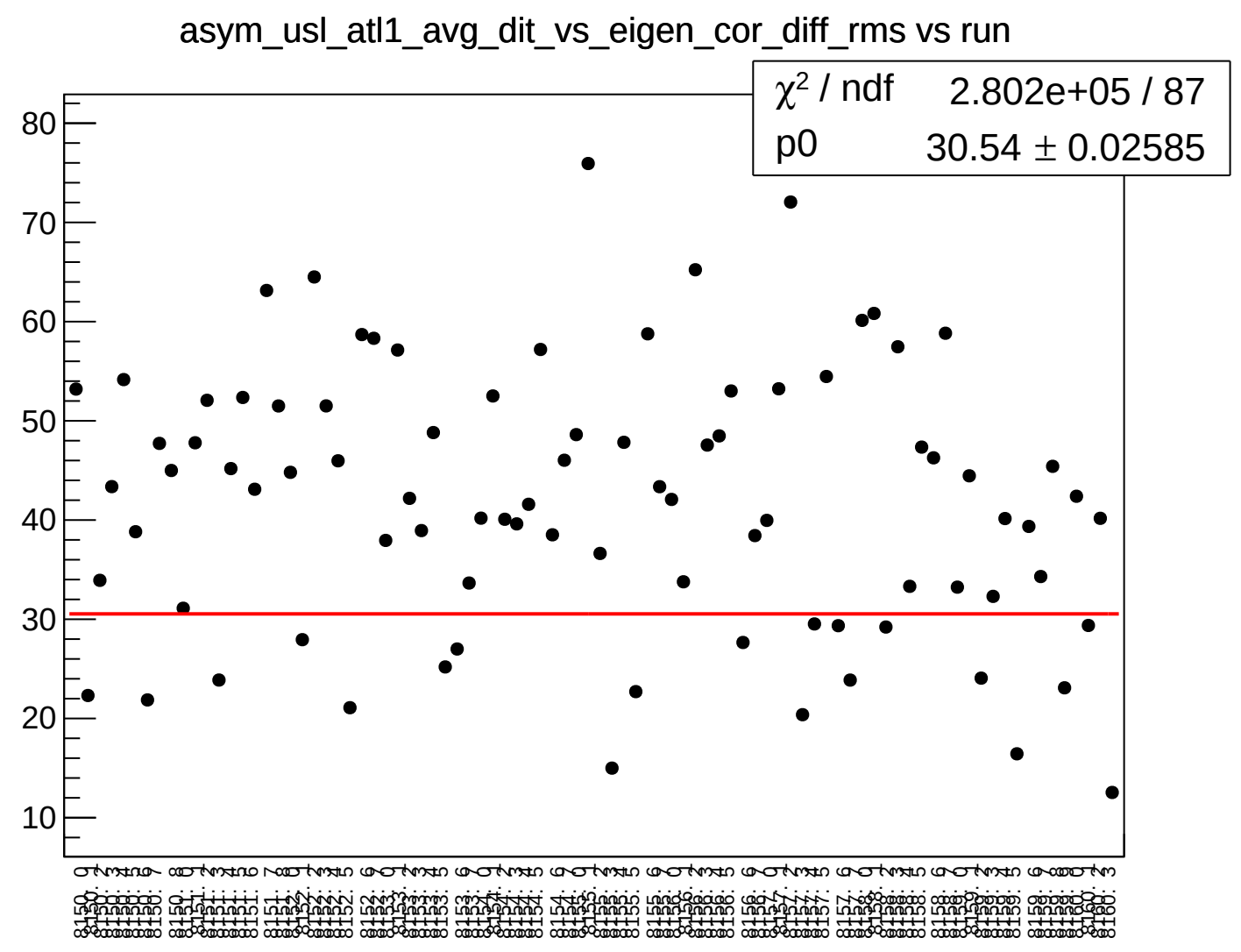

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.95 / 87
p0 −1.606e−14 ± 6.188e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 88
Mean 40.17
Std Dev 23.77
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.1028
Std Dev 0.9654
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

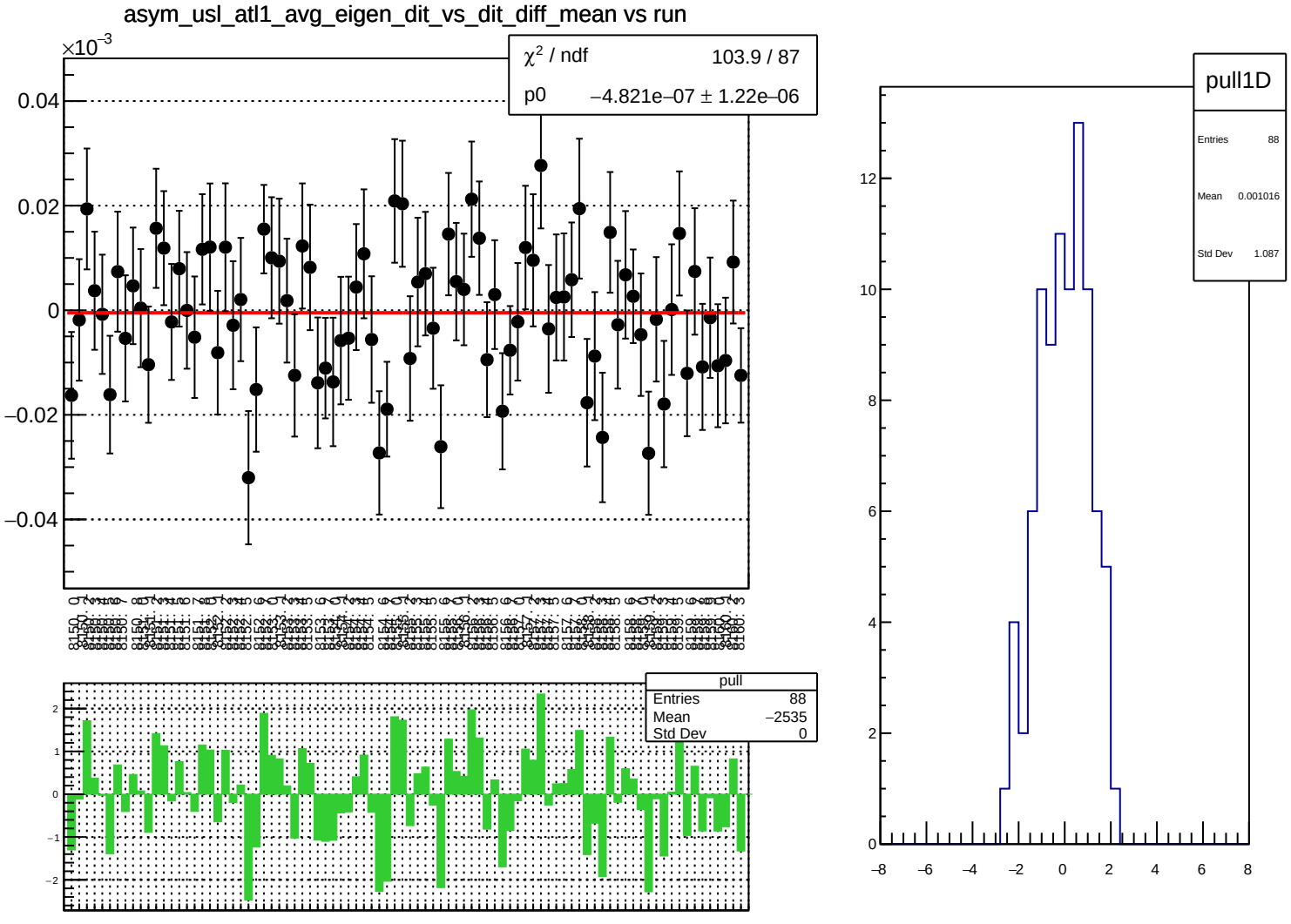

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.708e+05 / 87
p0 3.927e−11 ± 4.375e−14
1
0.8
0.6
0.4
0.2
0

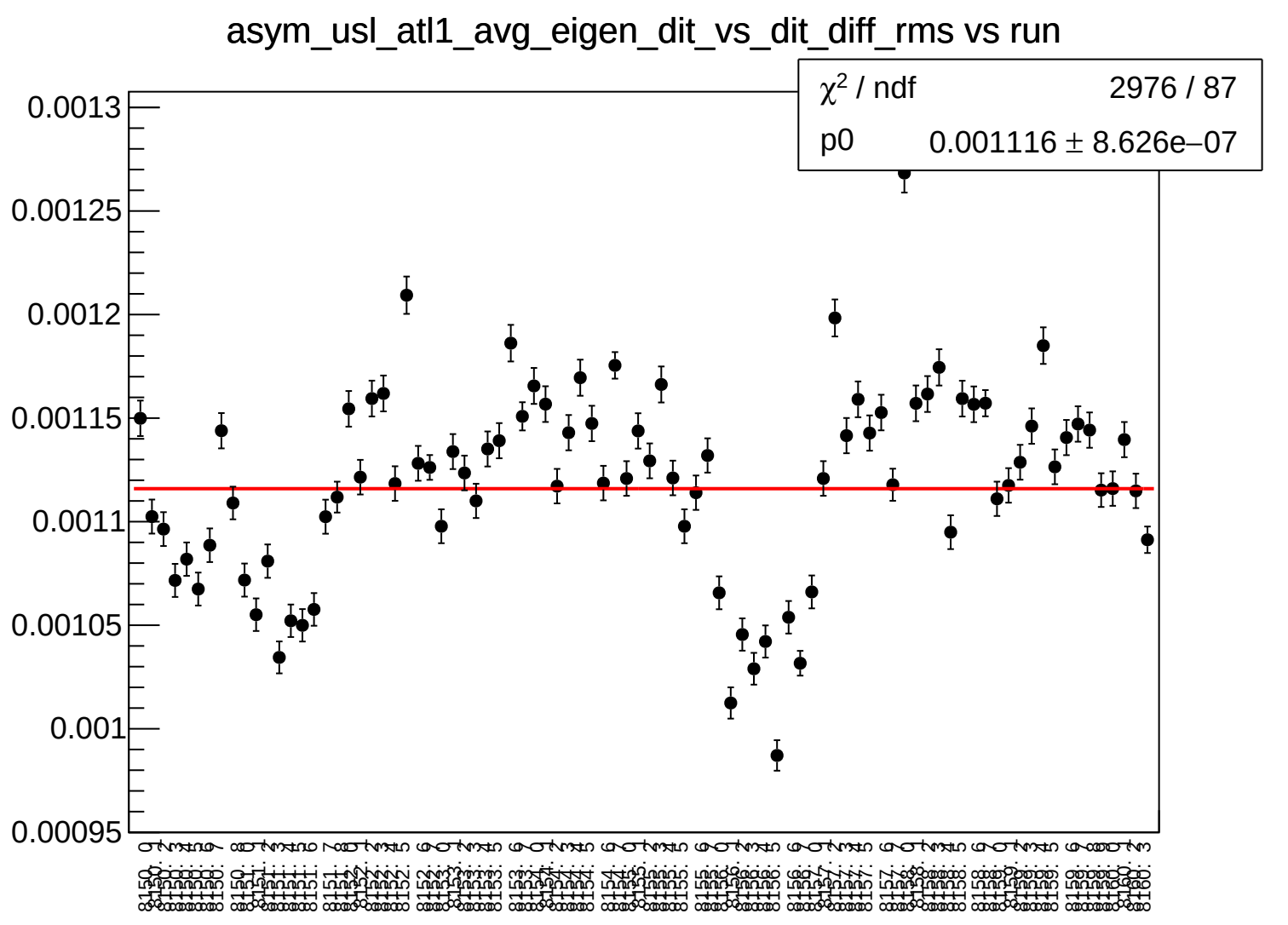

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 115.4 / 87
p0 0.04313 ± 0.03655
pull
Entries 88
Mean 71.63
Std Dev 0
pull1D
Entries 88
Mean 0.07771
Std Dev 1.142

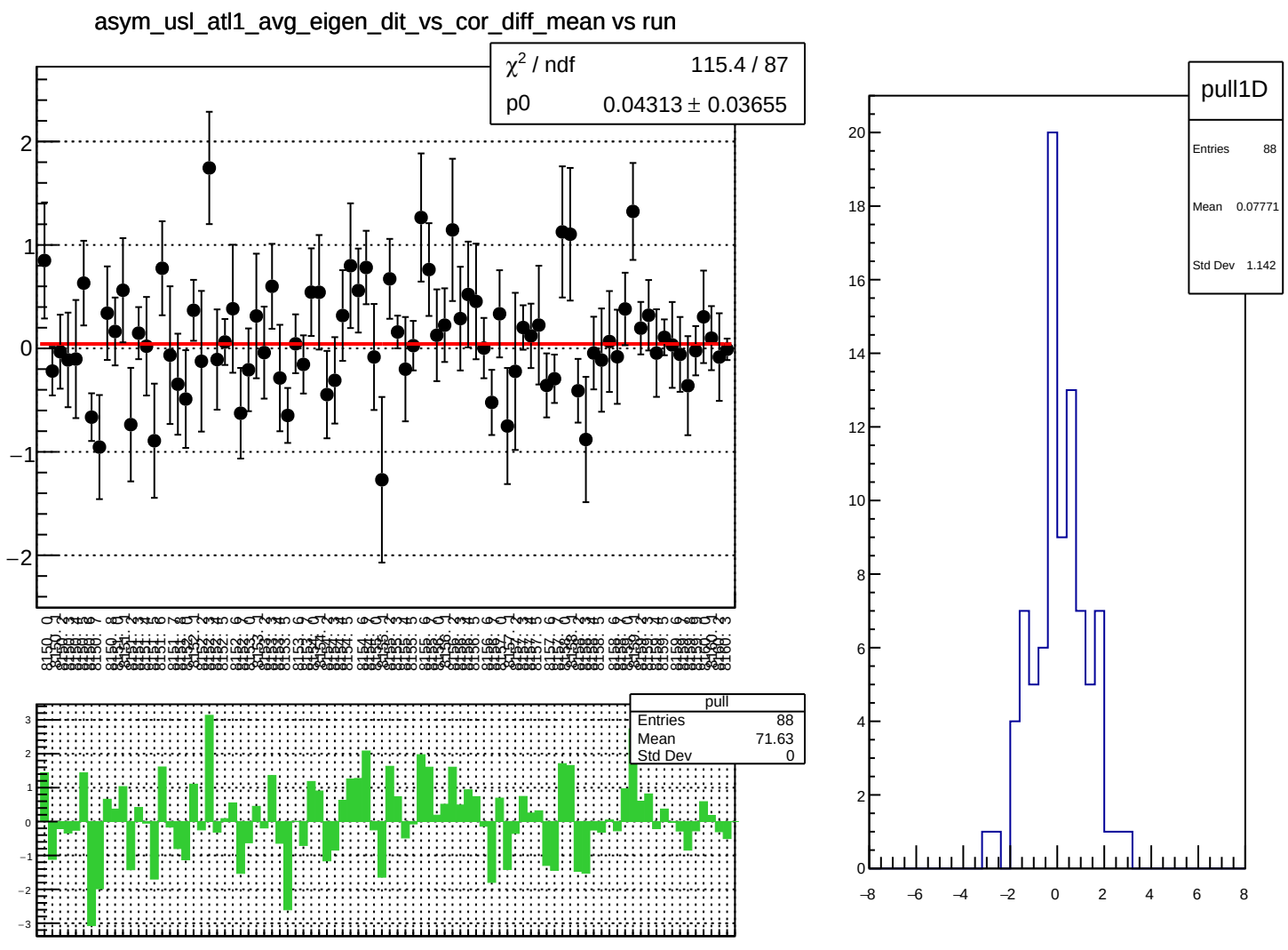

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.802e+05 / 87
p0 30.54 ± 0.02585
80
70
60
50
40
30
20
10

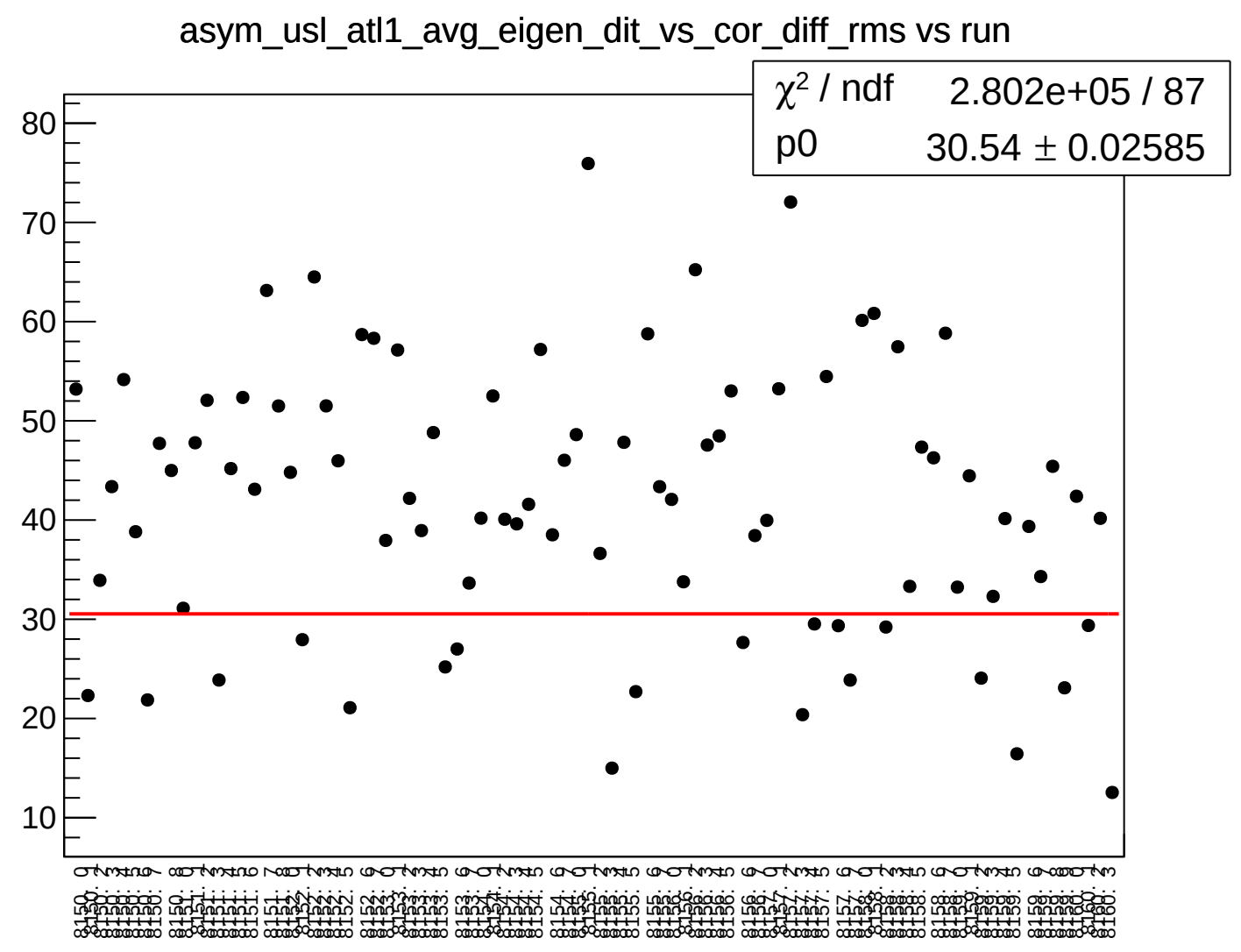

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.4 / 87
p0 0.04313 ± 0.03655
pull
Entries 88
Mean 71.63
Std Dev 0
pull1D
Entries 88
Mean 0.07771
Std Dev 1.142

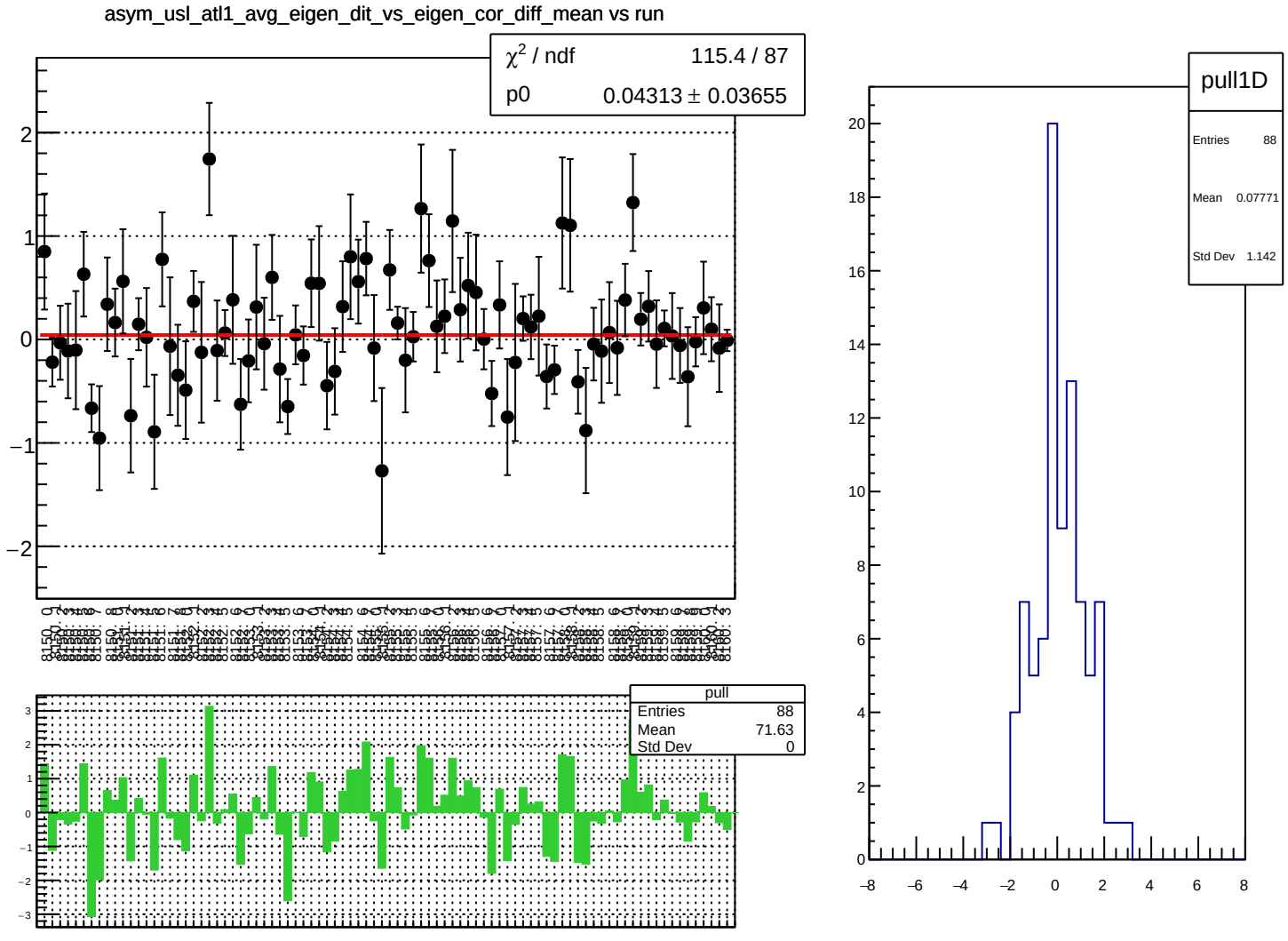

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.802e+05 / 87
p0 30.54 ± 0.02585
80
70
60
50
40
30
20
10

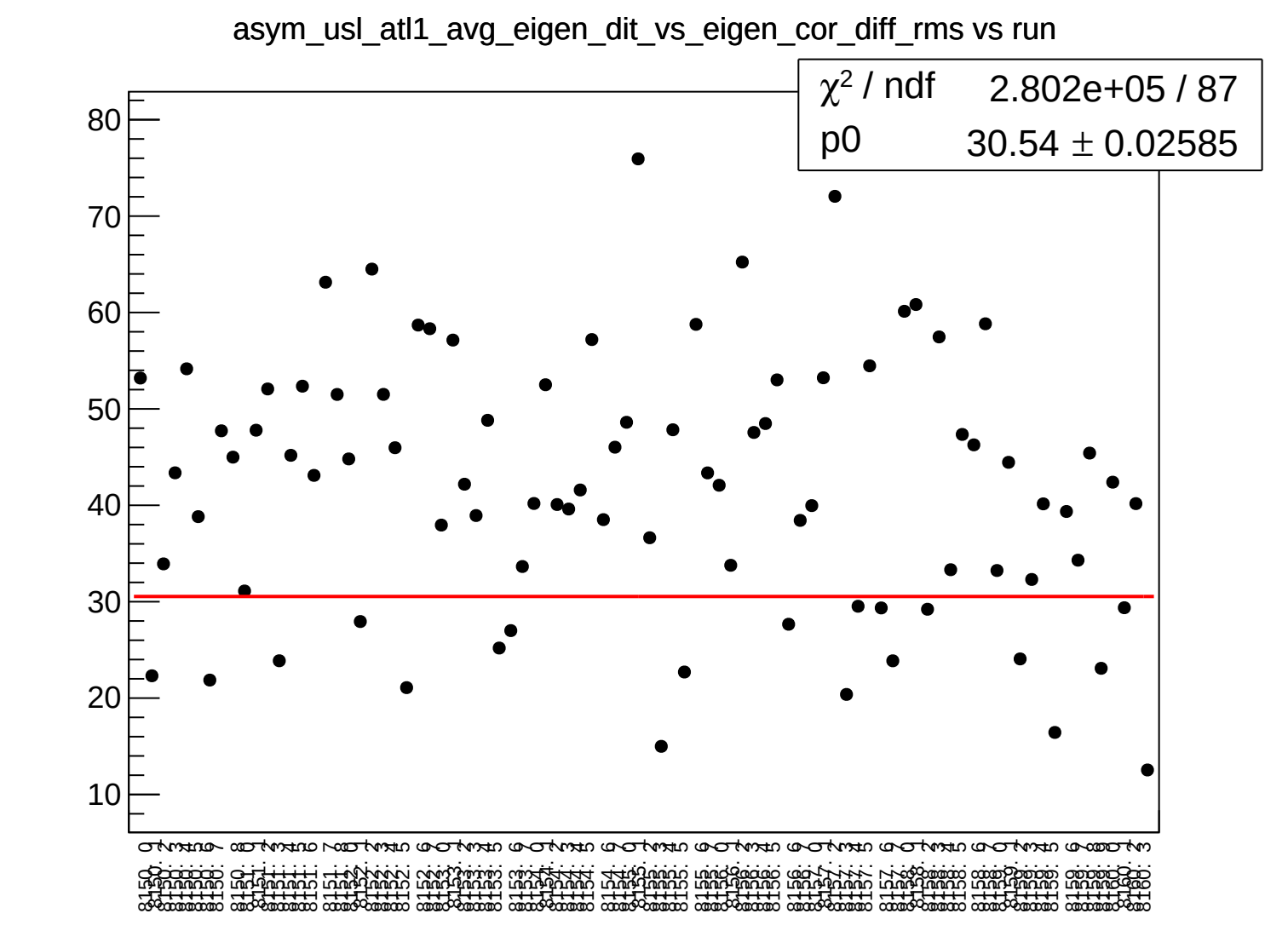

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.9 / 87
p0 −4.821e−07 ± 1.22e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean −2535
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001016
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

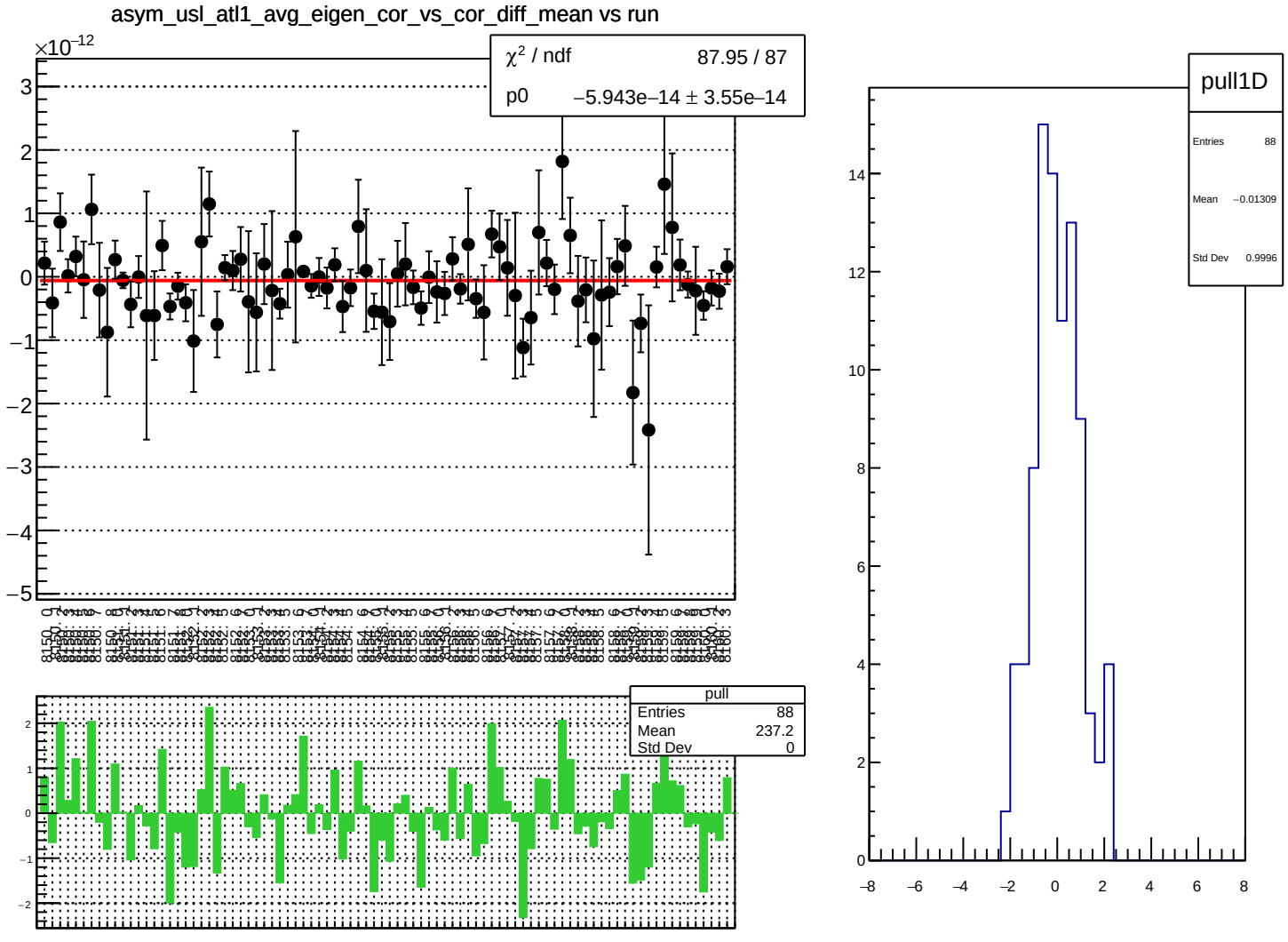

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2976 / 87
p0 0.001116 ± 8.626e−07
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105
0.001
0.00095

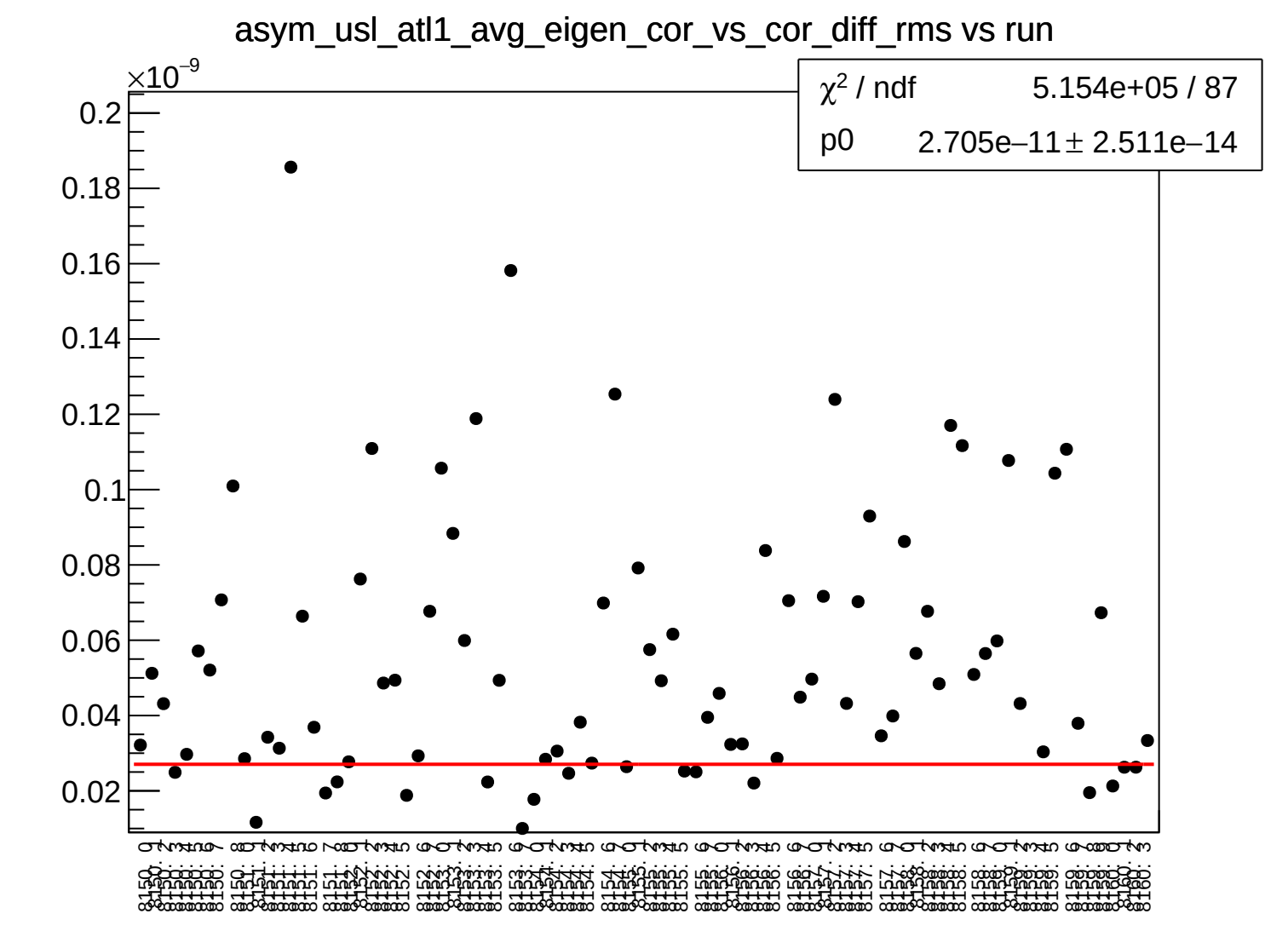

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115.4 / 87
p0 0.04313 ± 0.03655
pull
Entries 88
Mean 71.63
Std Dev 0
pull1D
Entries 88
Mean 0.07771
Std Dev 1.142

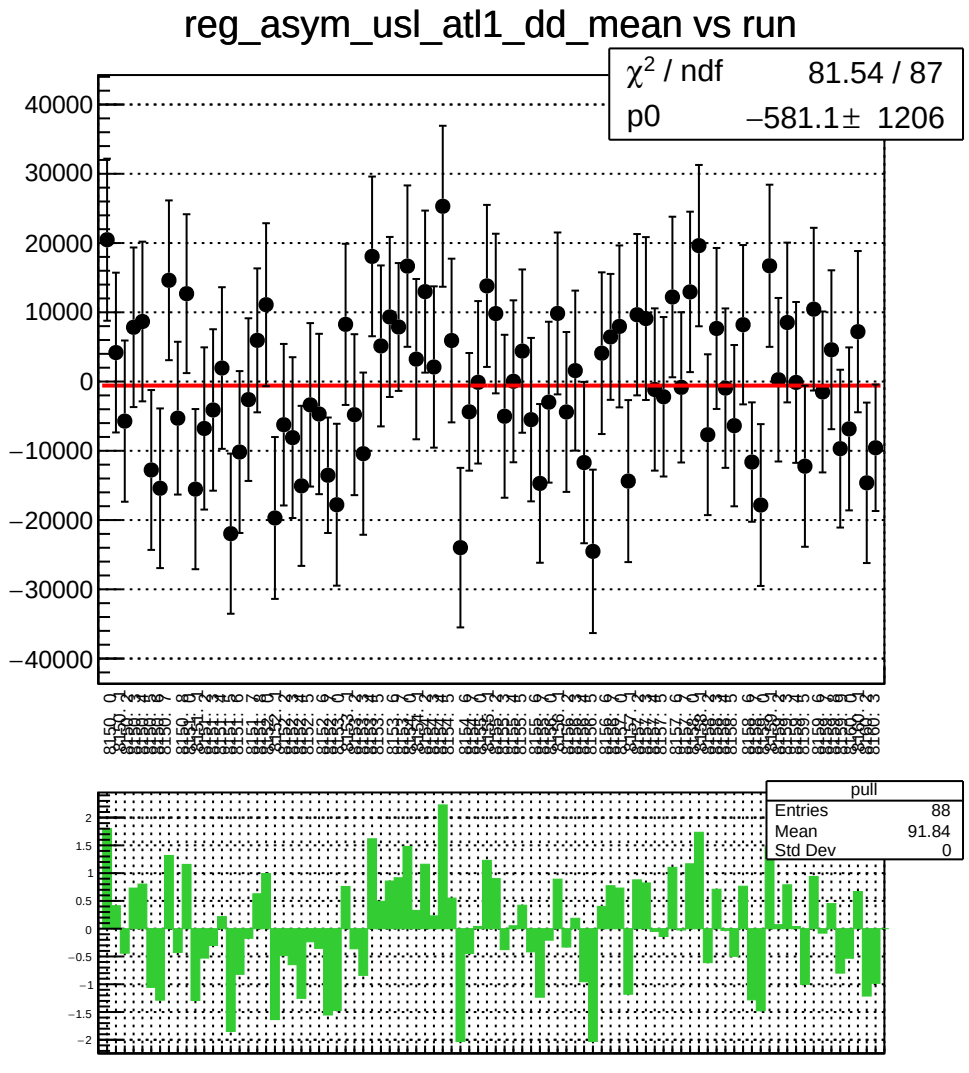

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.802e+05 / 87
p0 30.54 ± 0.02585
80
70
60
50
40
30
20
10

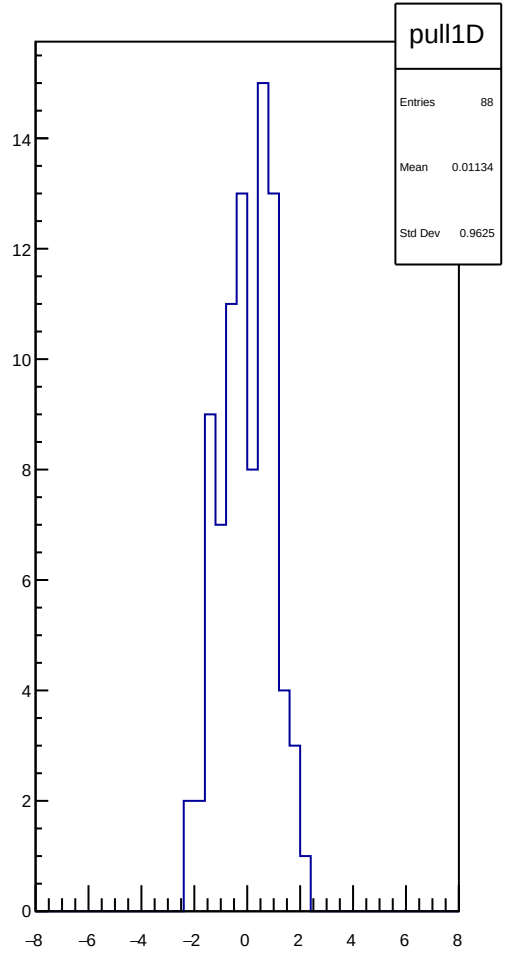

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.4 / 87
p0 0.04313 ± 0.03655
pull
Entries 88
Mean 71.63
Std Dev 0
pull1D
Entries 88
Mean 0.07771
Std Dev 1.142

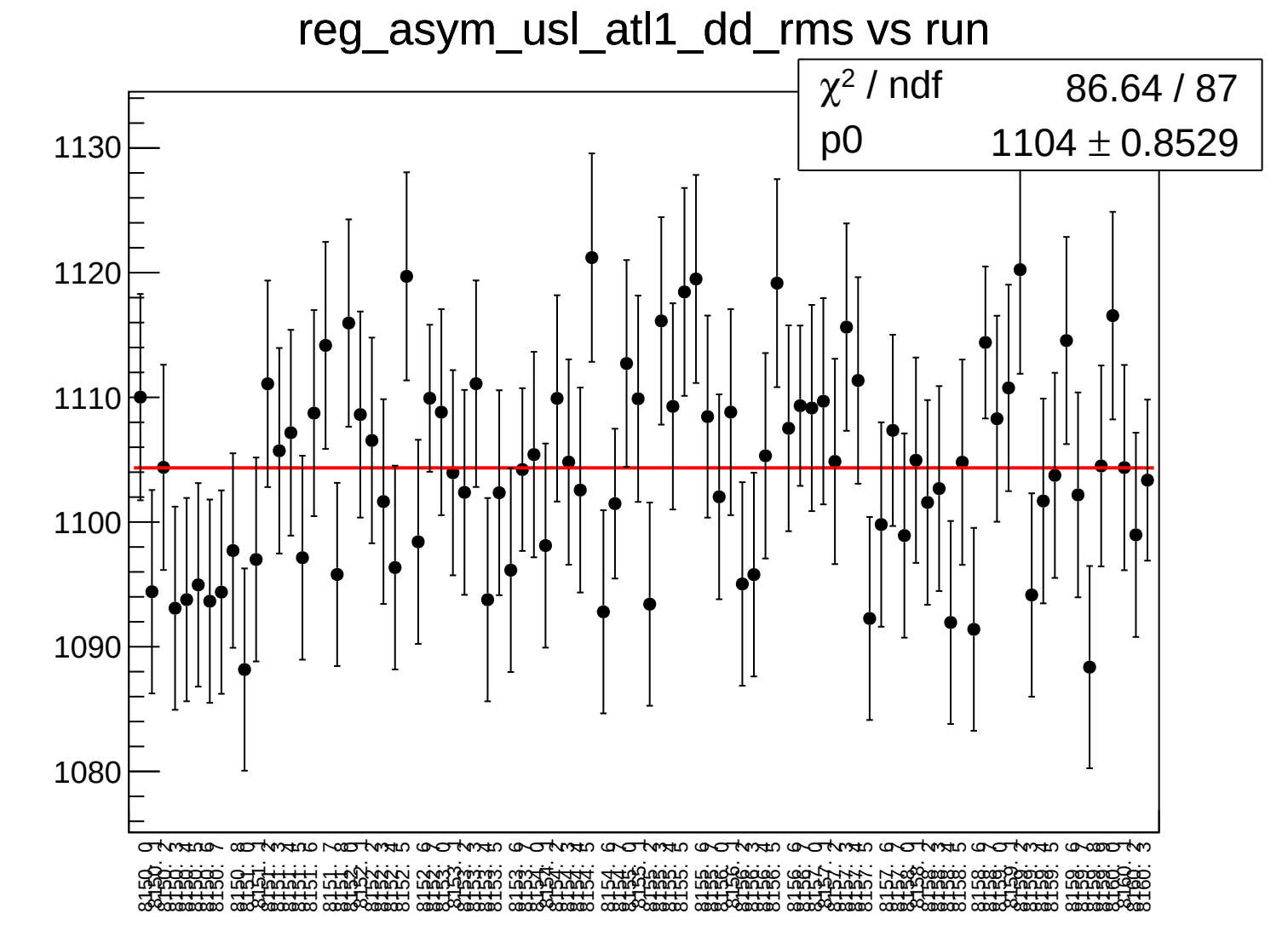

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.802e+05 / 87
p0 30.54 ± 0.02585
80
70
60
50
40
30
20
10

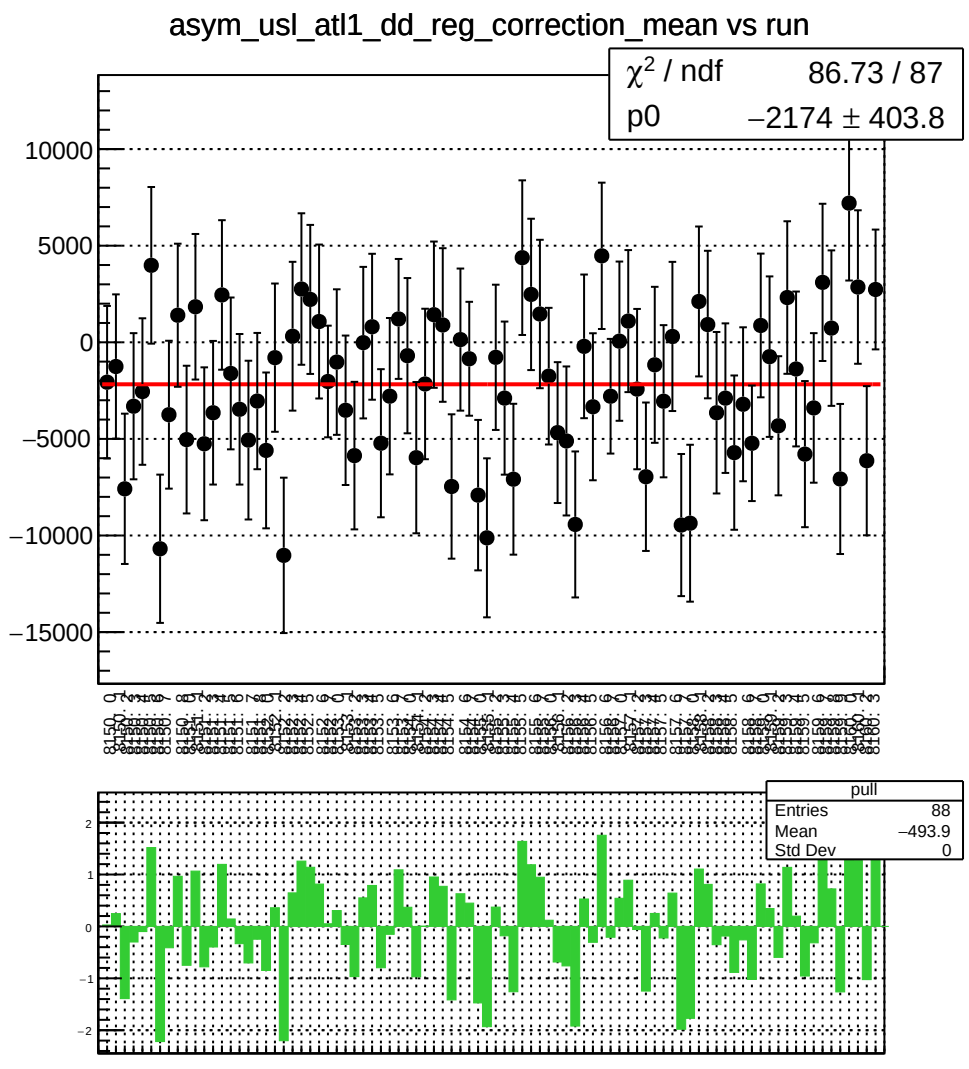

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.95 / 87
p0 −5.943e−14 ± 3.55e−14
pull
Entries 88
Mean 237.2
Std Dev 0
pull1D
Entries 88
Mean −0.01309
Std Dev 0.9996

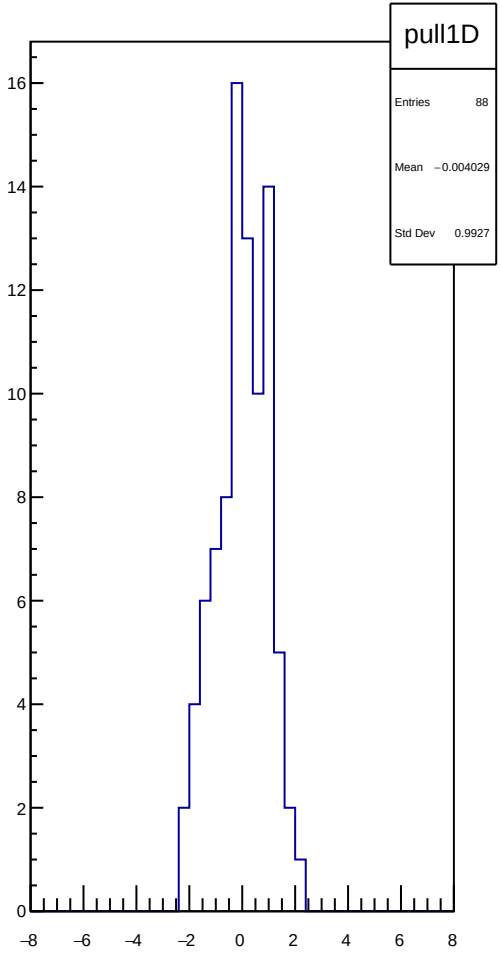

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.154e+05 / 87
p0 2.705e−11 ± 2.511e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

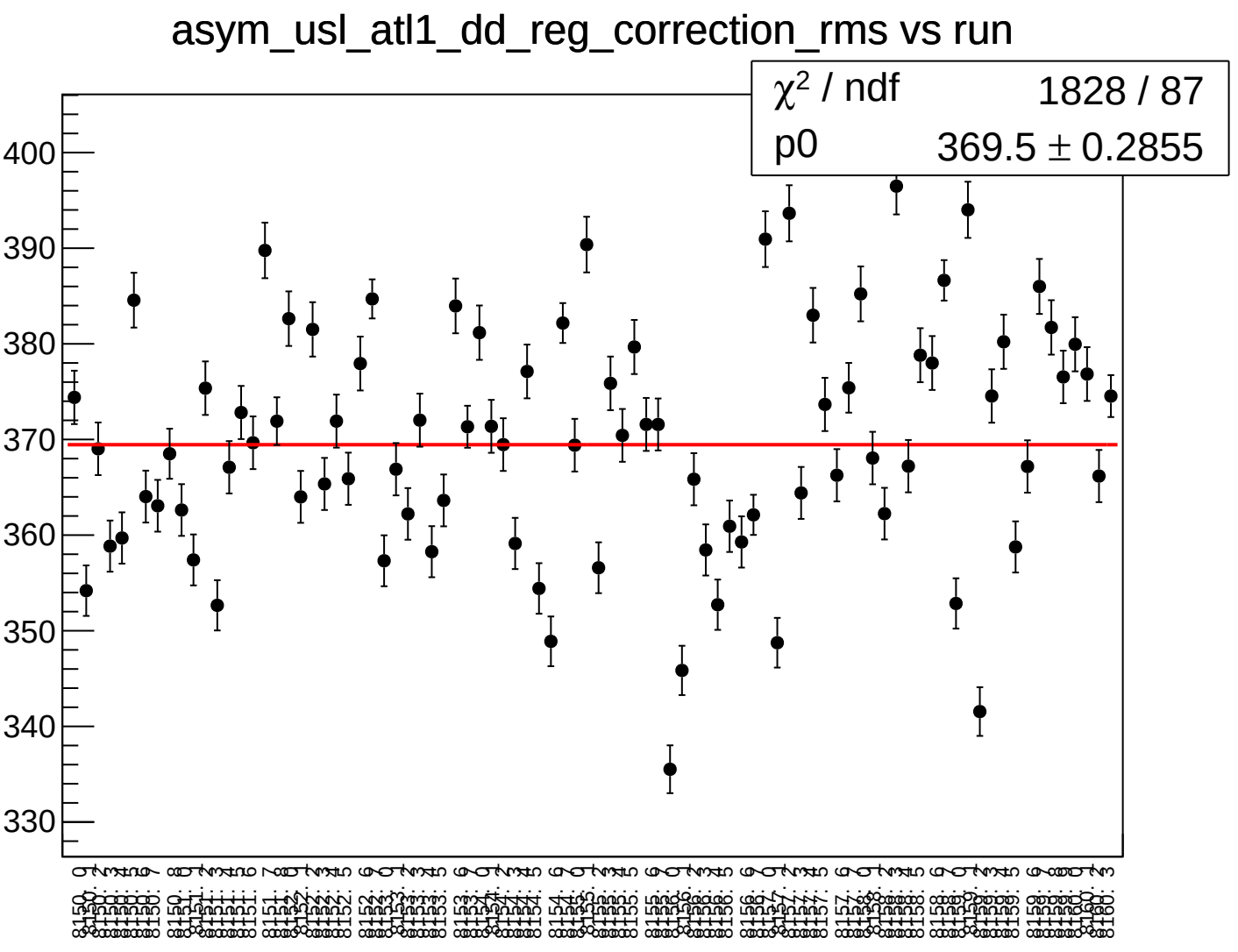

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 81.54 / 87
p0 −581.1± 1206
pull
Entries 88
Mean 91.84
Std Dev 0

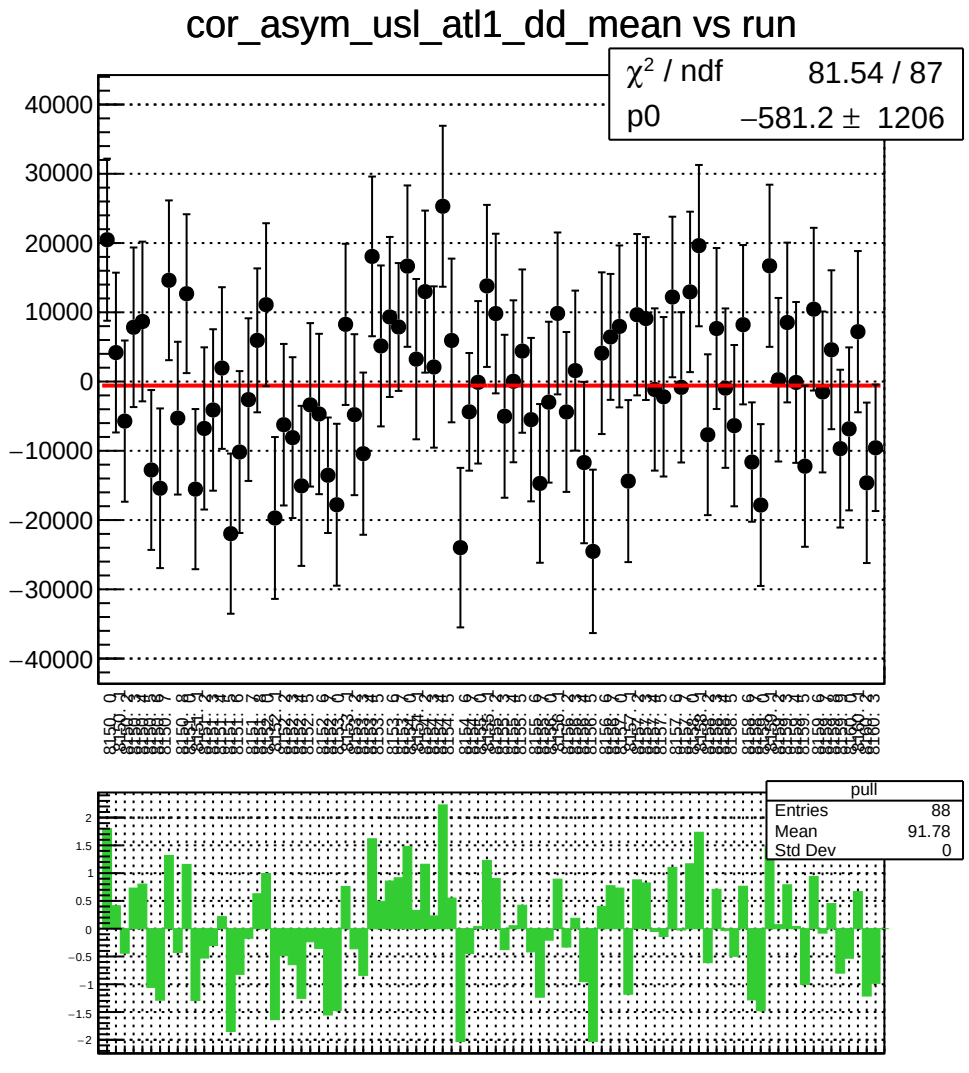

pull1D
Entries 88
Mean 0.01134
Std Dev 0.9625

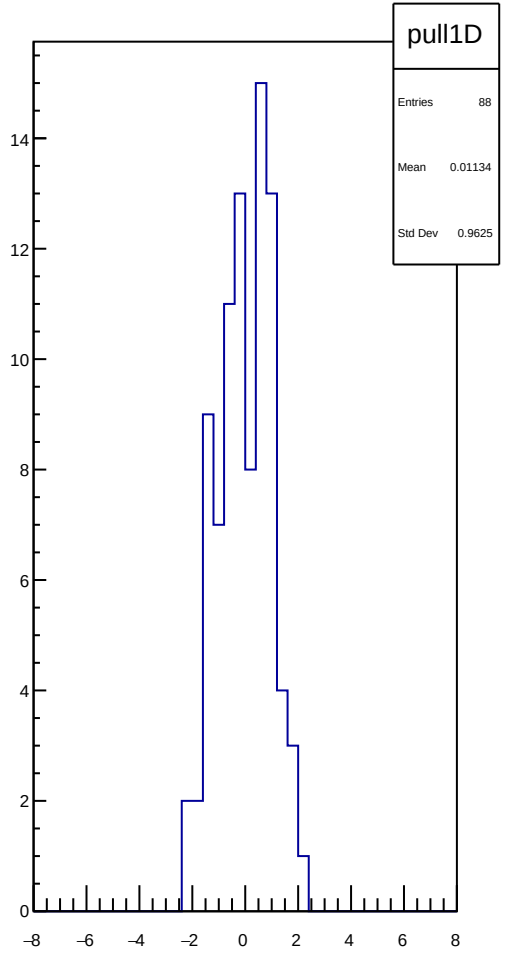

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 86.64 / 87
p0 1104 ± 0.8529
1130
1120
1110
1100
1090
1080

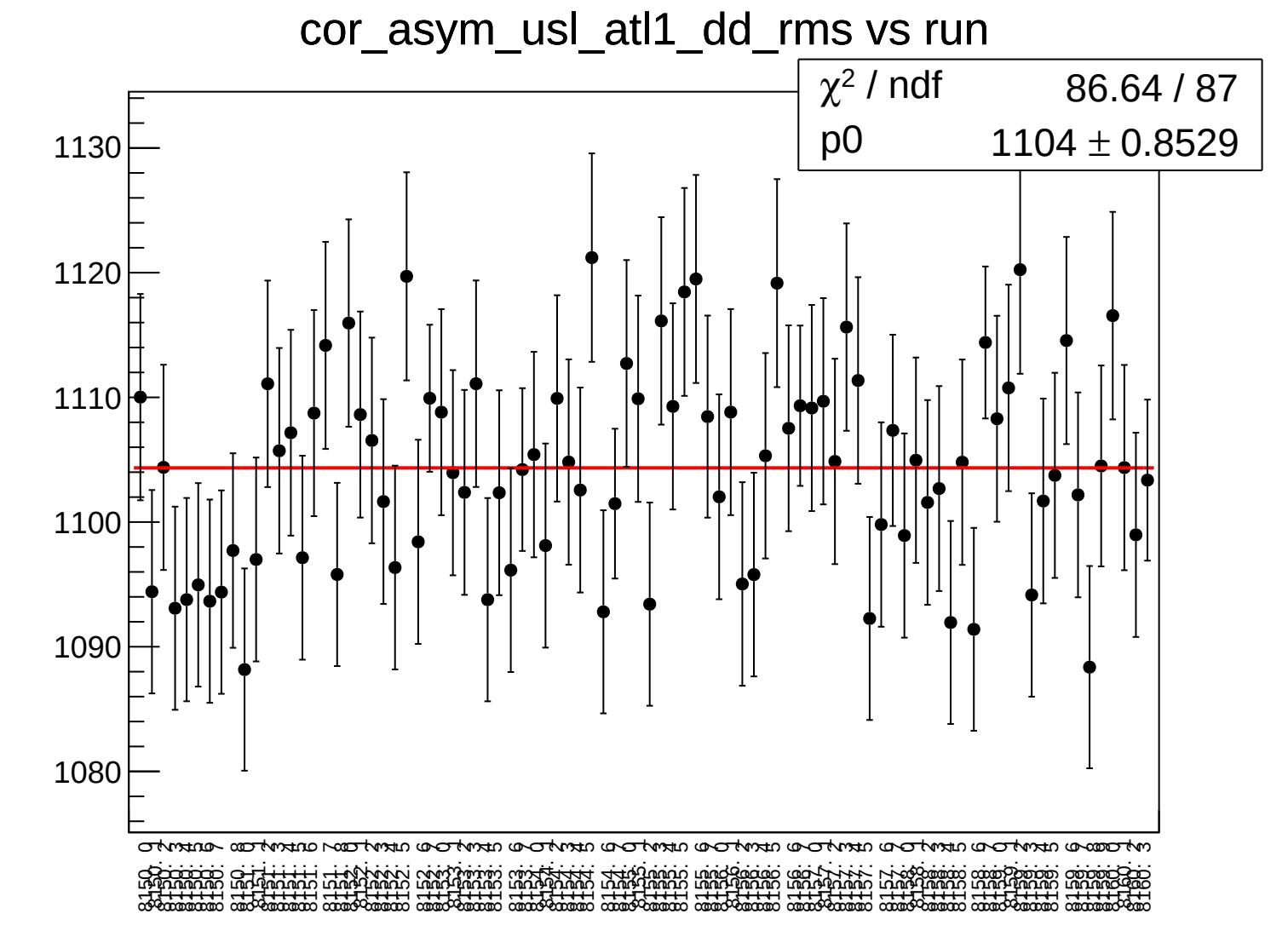

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 86.73 / 87
p0 −2174 ± 403.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −493.9
Std Dev 0
2
1
0
−1
−2

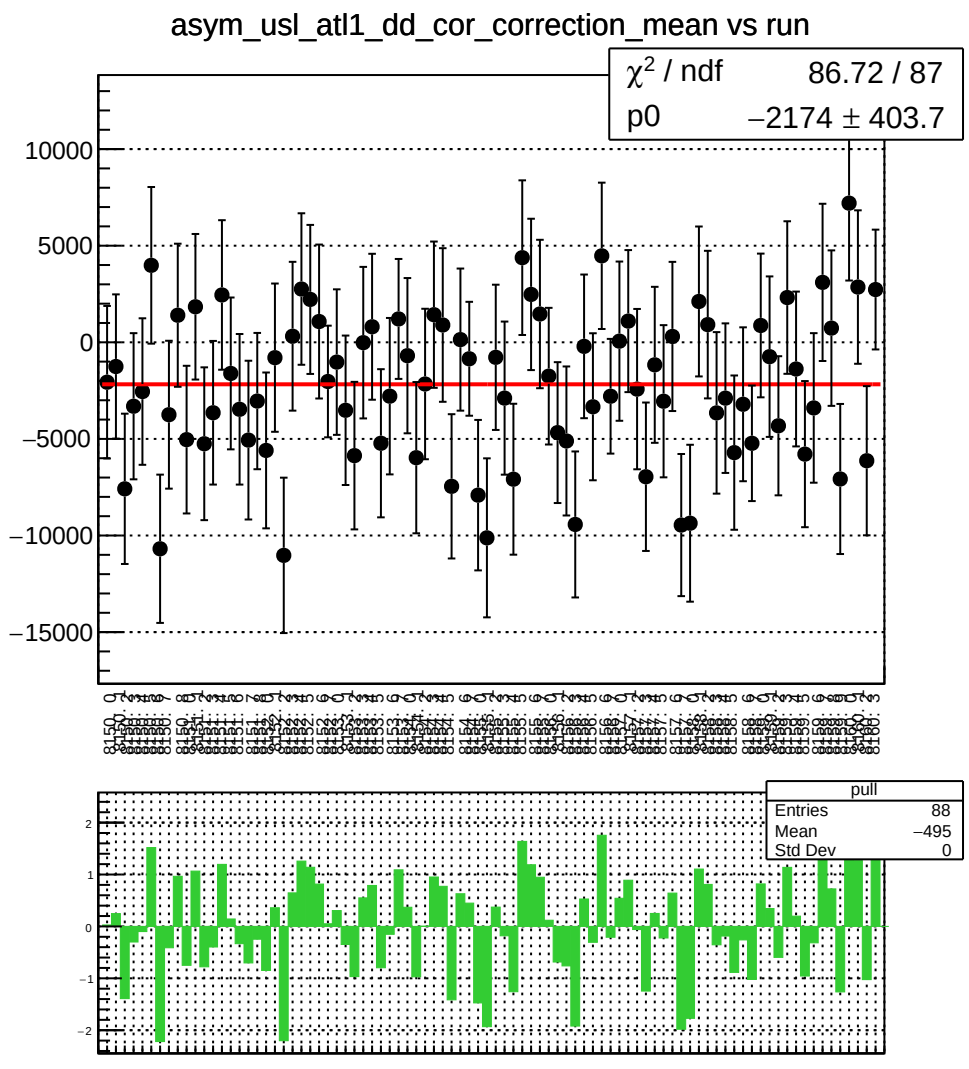

pull1D
Entries 88
Mean −0.004029
Std Dev 0.9927
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

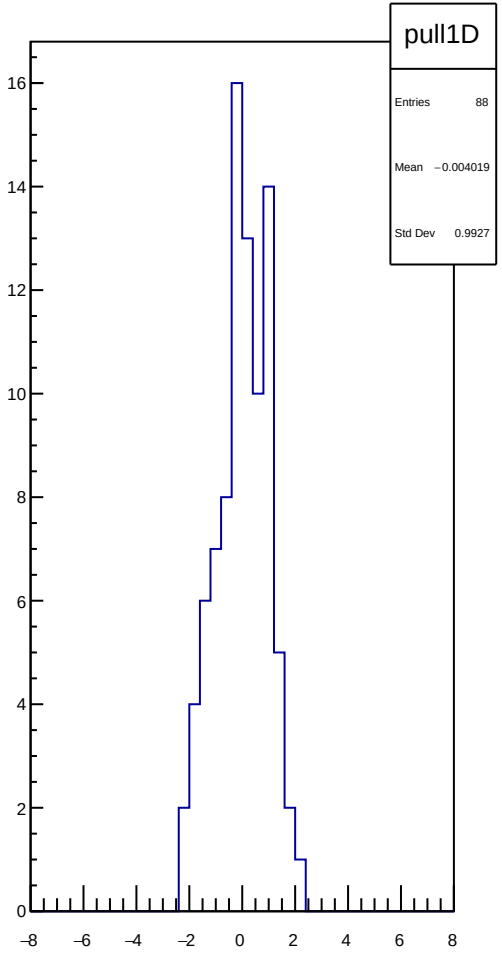

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1828 / 87
p0 369.5 ± 0.2855
400
390
380
370
360
350
340
330

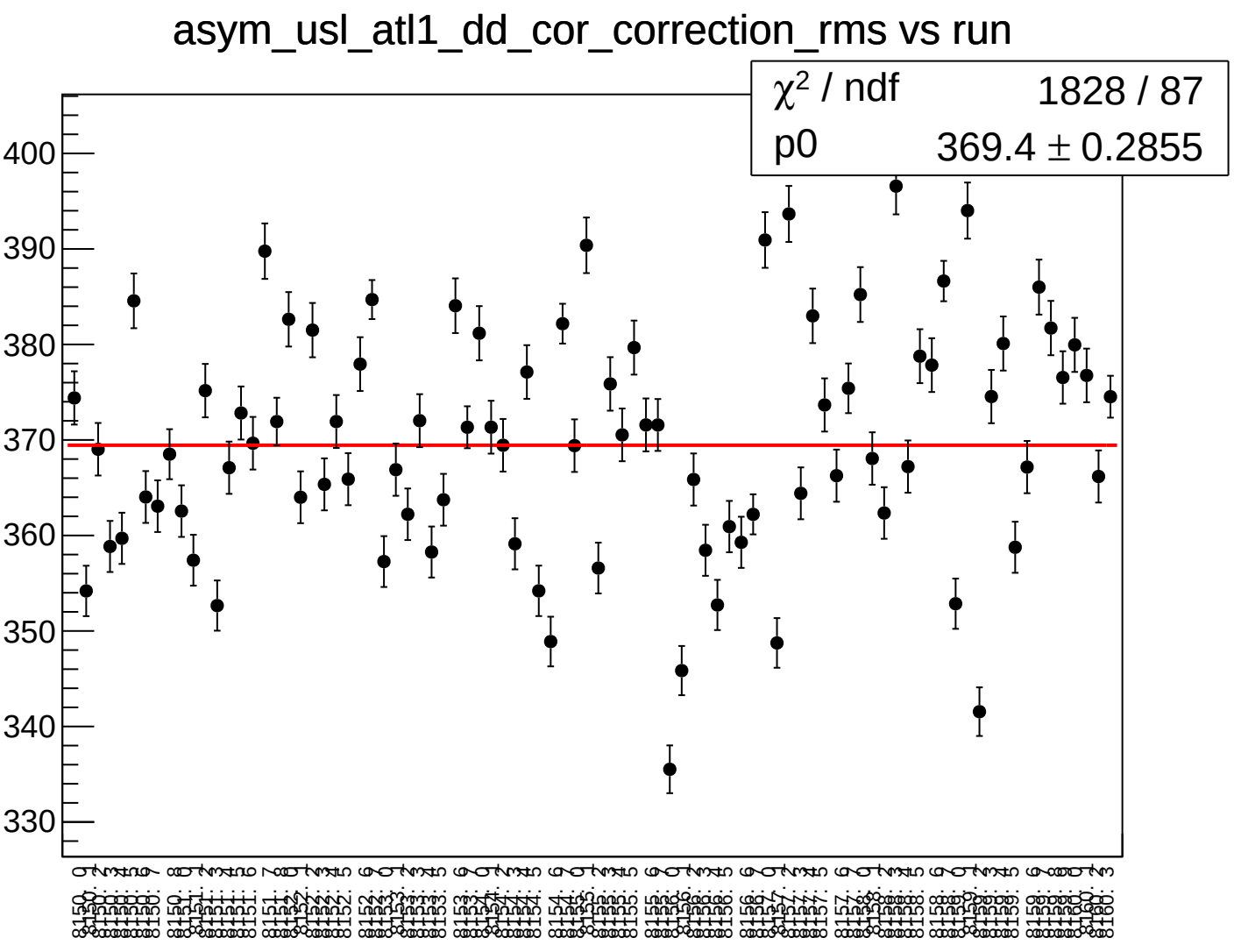

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 81.54 / 87
p0 −581.2 ± 1206
pull
Entries 88
Mean 91.78
Std Dev 0

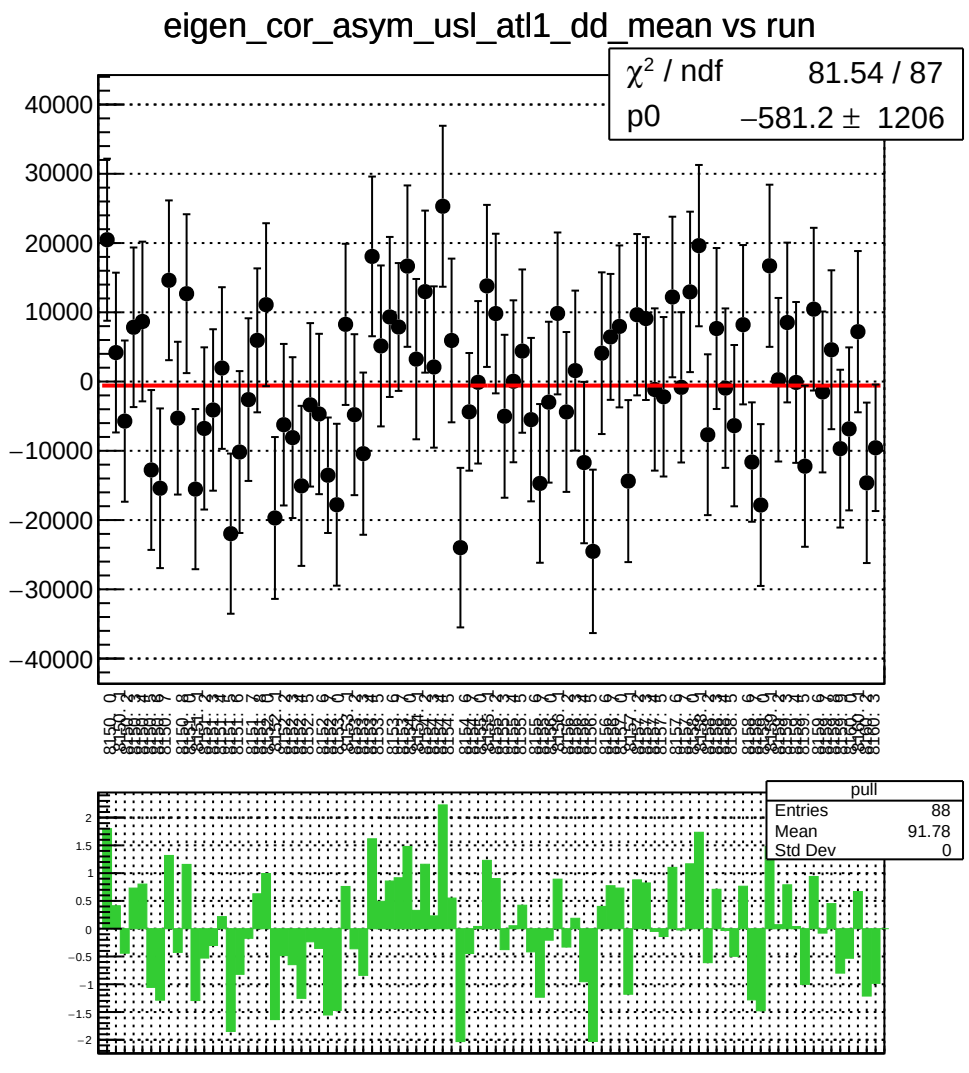

pull1D
Entries 88
Mean 0.01134
Std Dev 0.9625

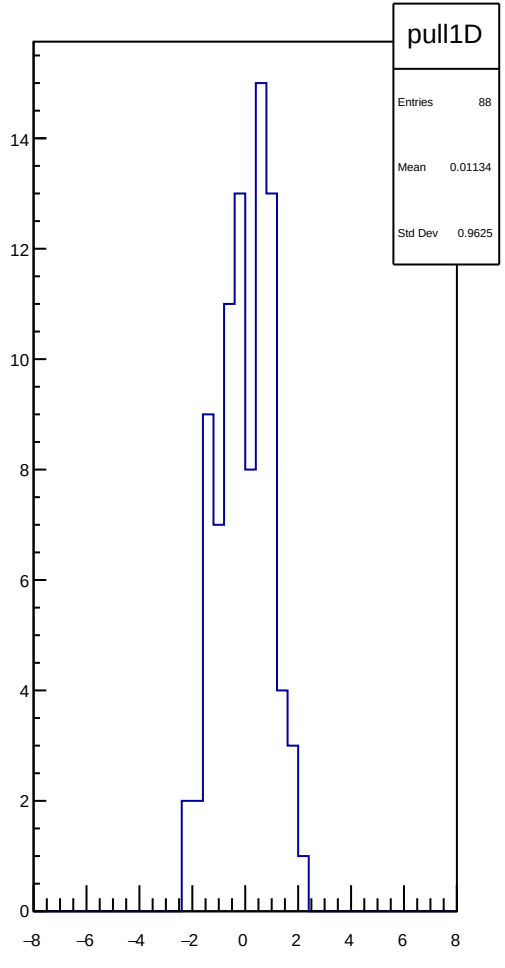

cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 86.64 / 87
p0 1104 ± 0.8529
1130
1120
1110
1100
1090
1080

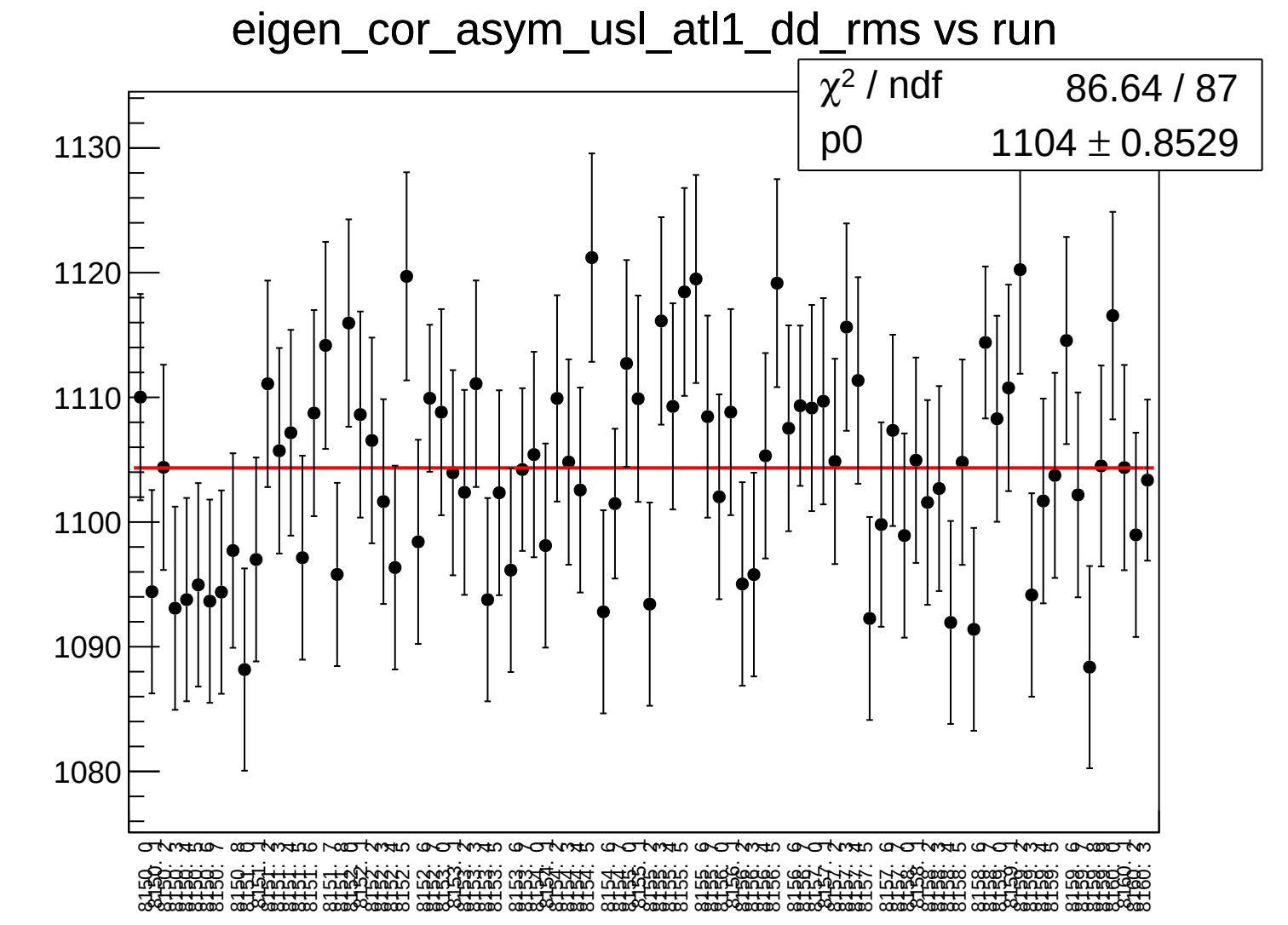

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 86.72 / 87
p0 −2174 ± 403.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −495
Std Dev 0
2
1
0
−1
−2

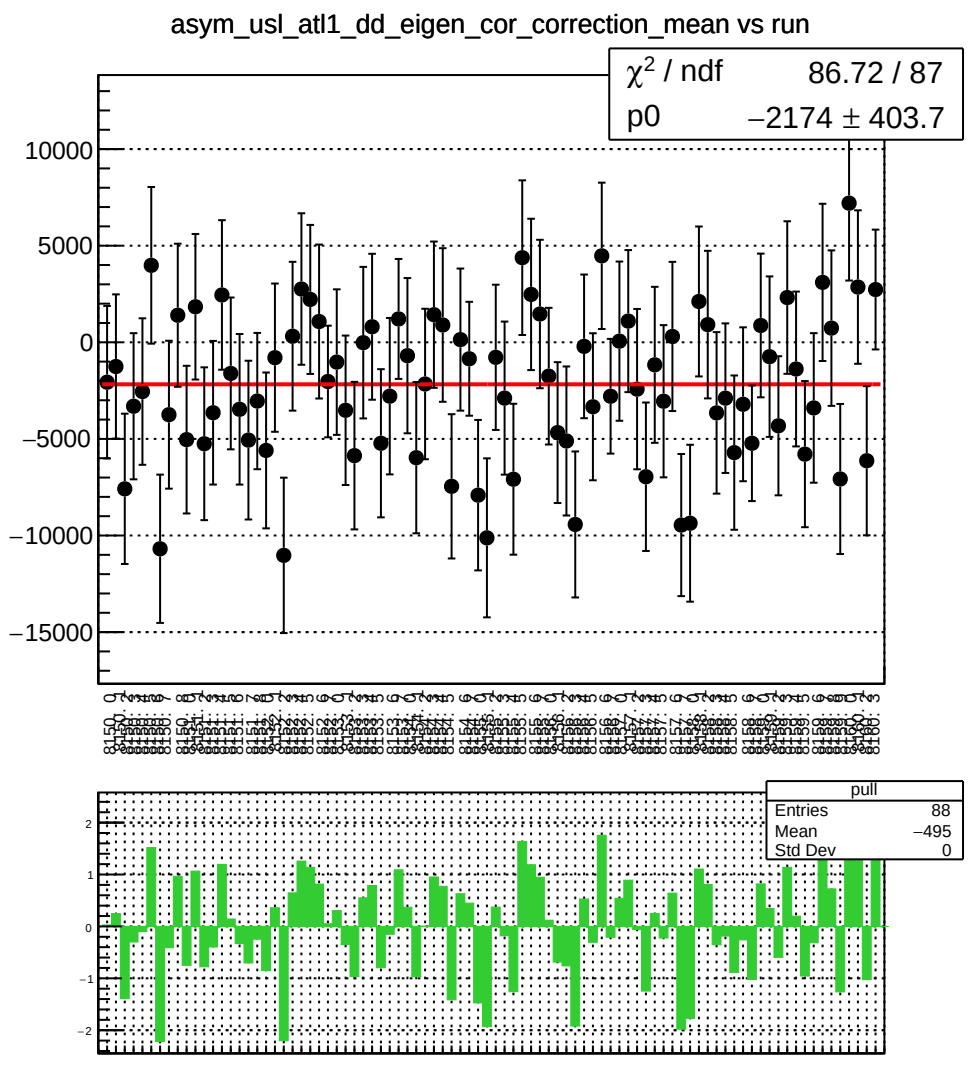

pull1D
Entries 88
Mean −0.004019
Std Dev 0.9927
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

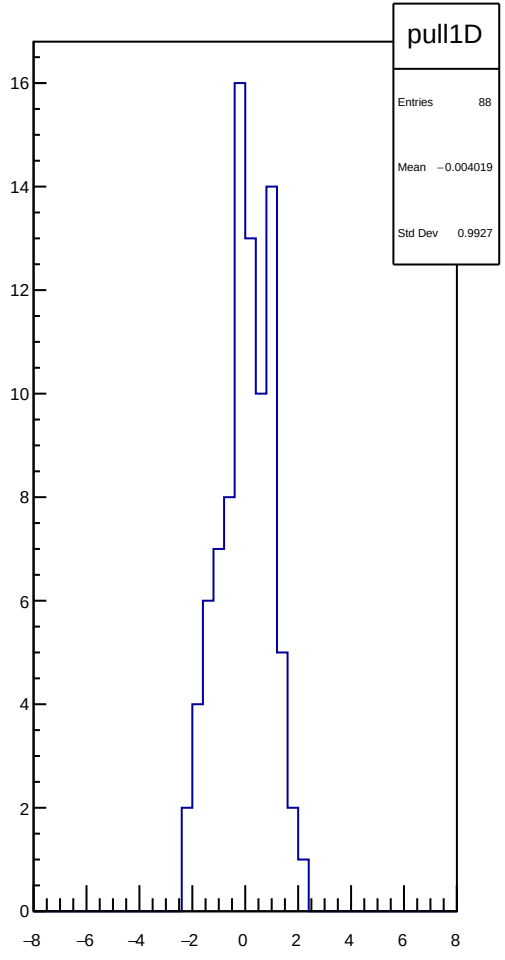

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1828 / 87
p0 369.4 ± 0.2855
400
390
380
370
360
350
340
330

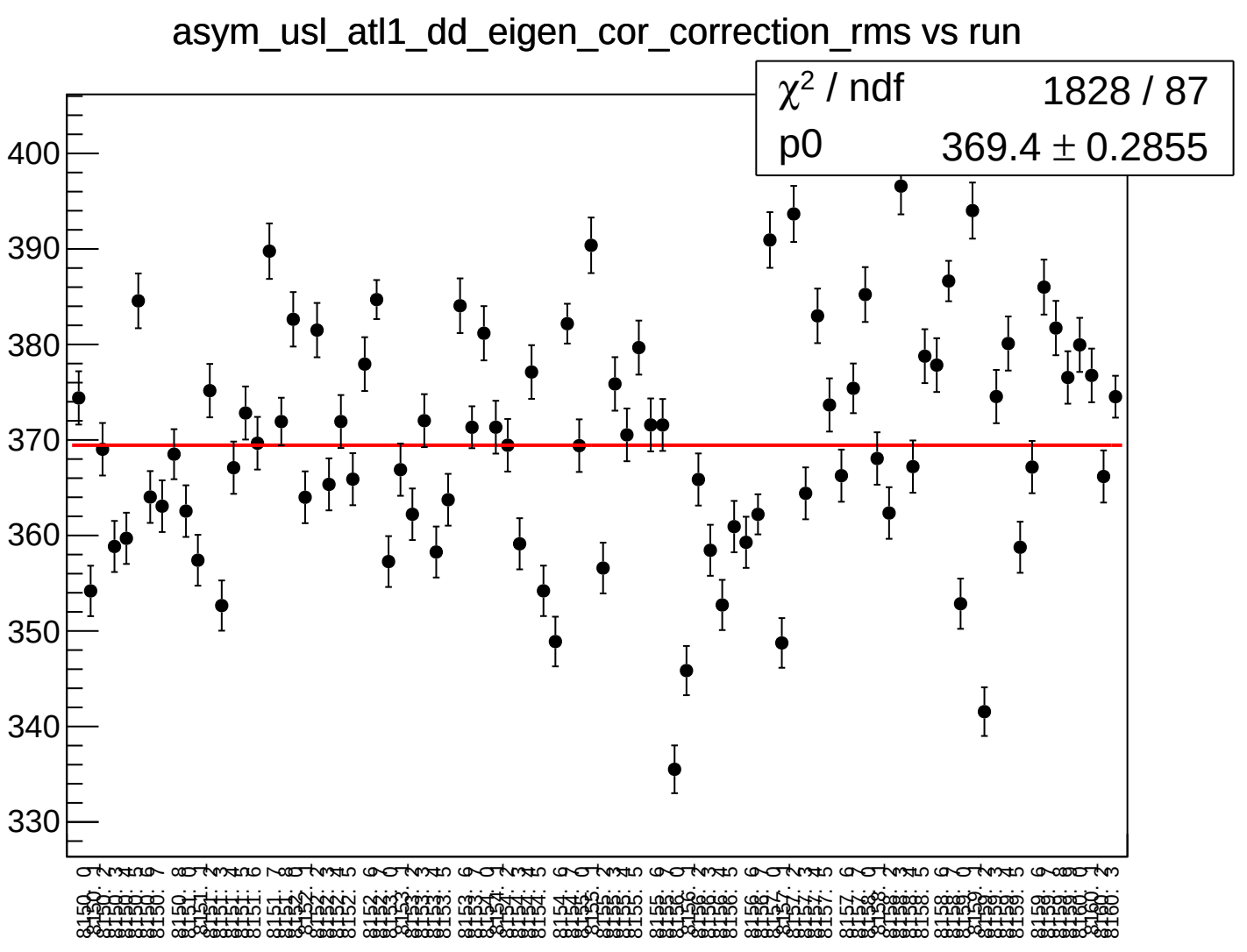

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 81.54 / 87
p0 −581.2 ± 1206
pull
Entries 88
Mean 91.78
Std Dev 0

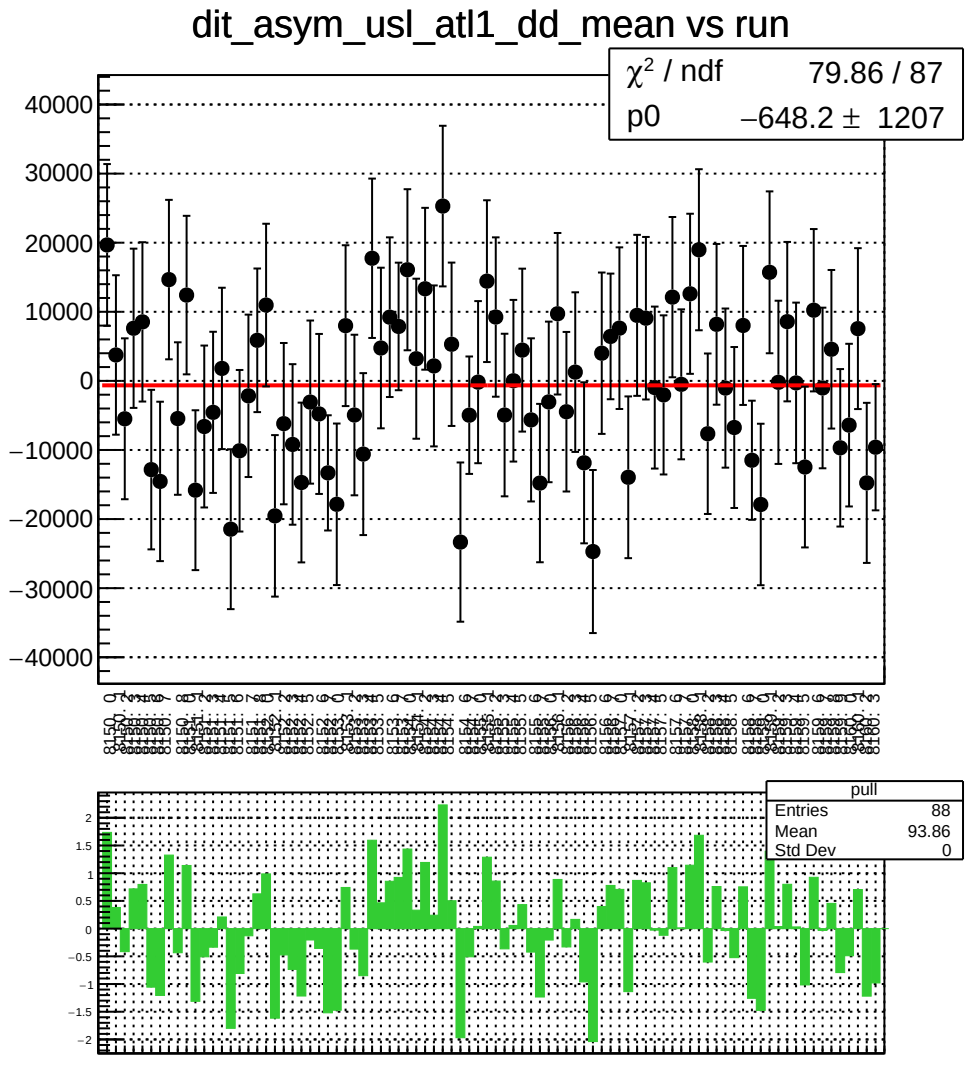

pull1D
Entries 88
Mean 0.01134
Std Dev 0.9625

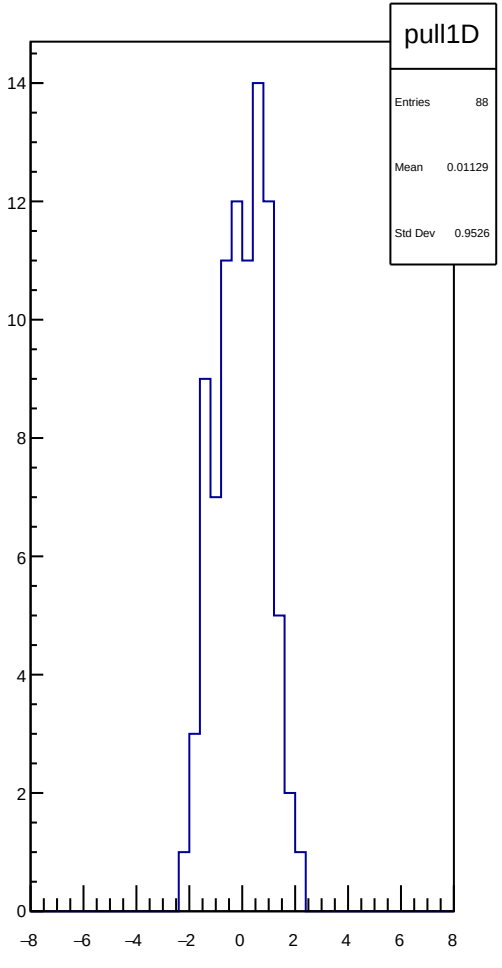

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 86.64 / 87
p0 1104 ± 0.8529
1130
1120
1110
1100
1090
1080

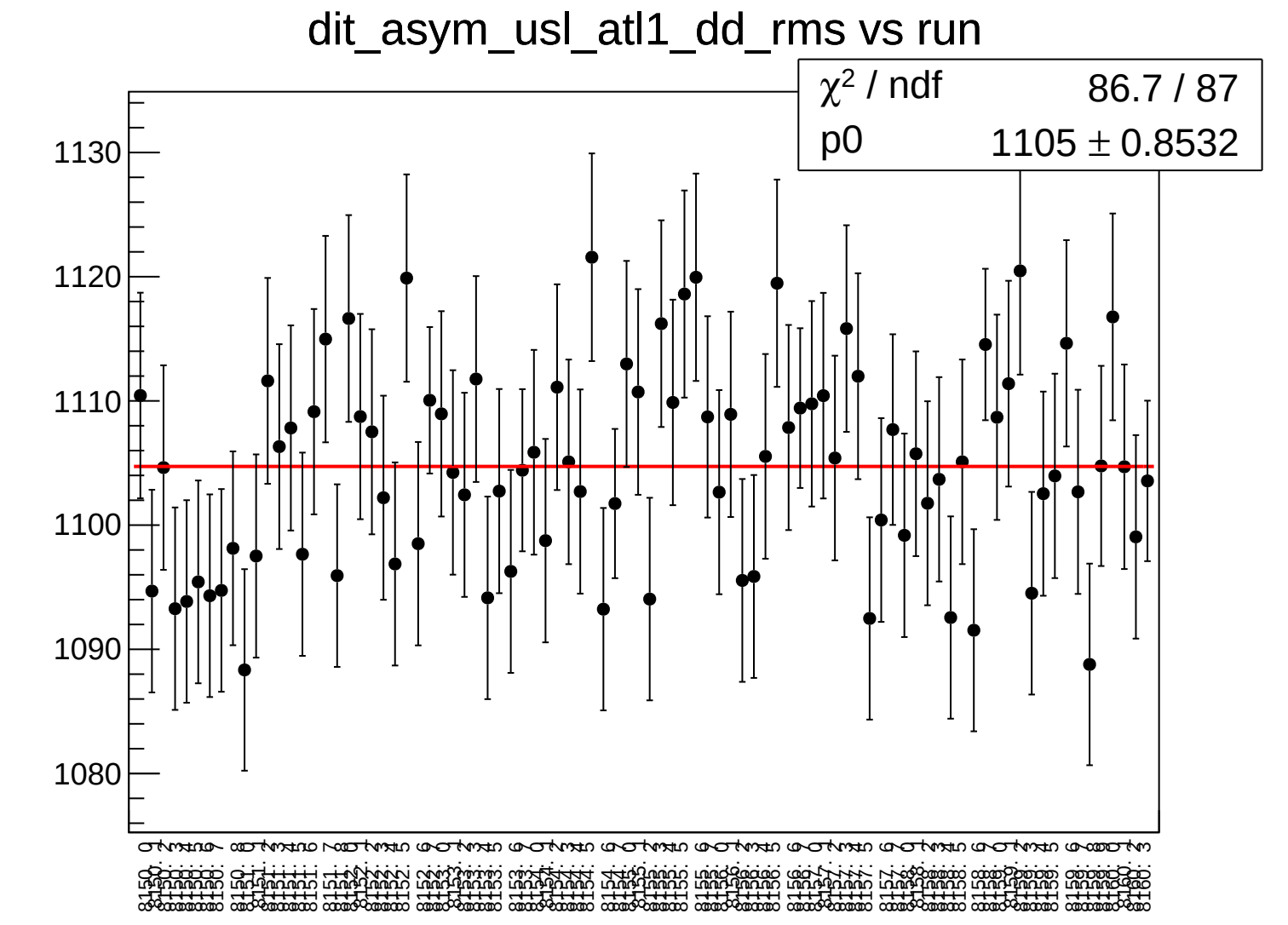

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.72 / 87
p0 −2174 ± 403.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −495
Std Dev 0
2
1
0
−1
−2

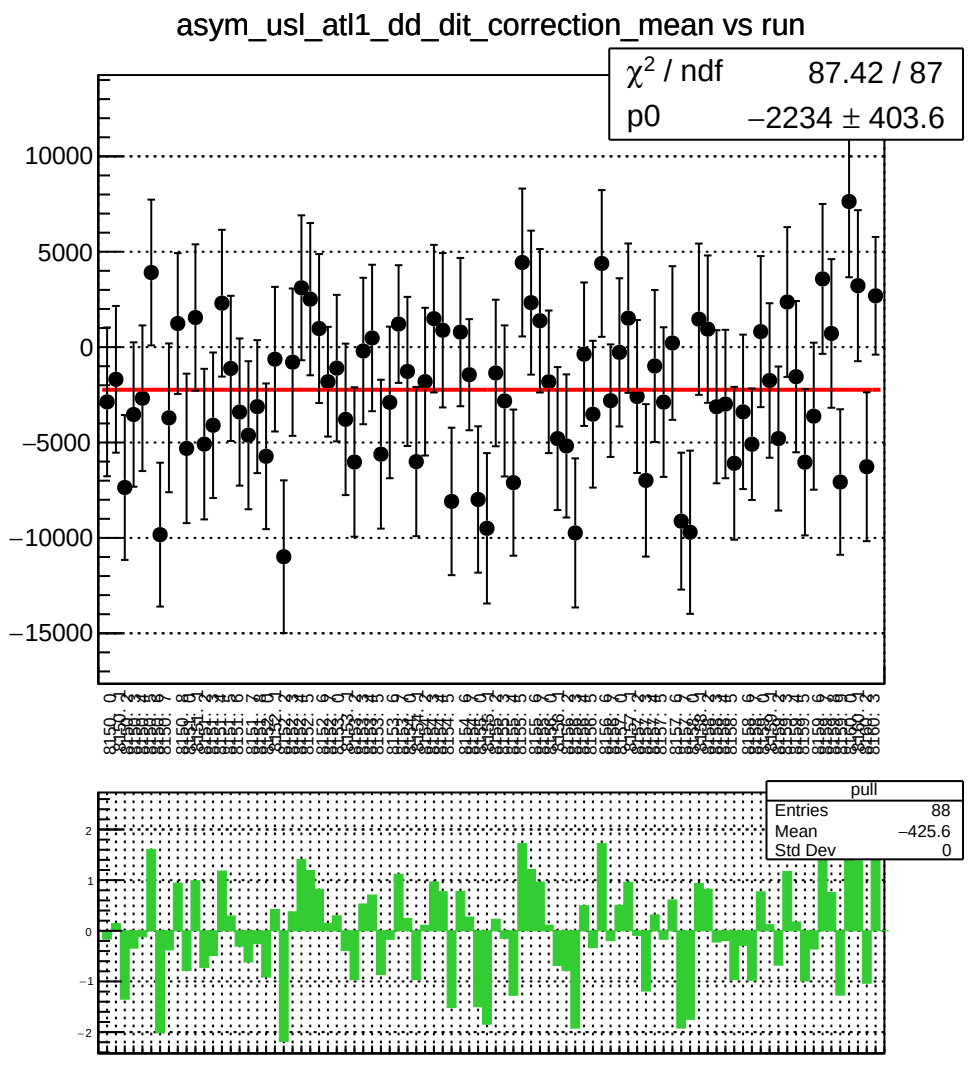

pull1D
Entries 88
Mean −0.004019
Std Dev 0.9927
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

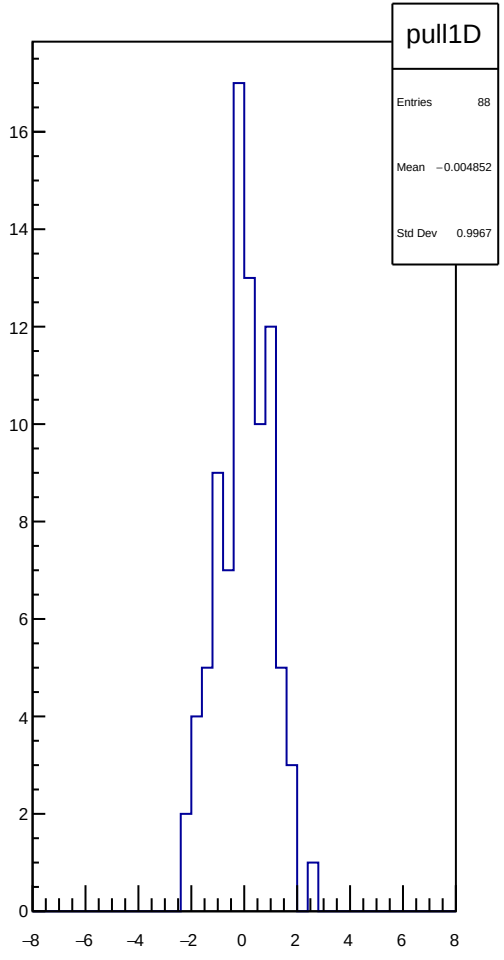

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1828 / 87
p0 369.4 ± 0.2855
400
390
380
370
360
350
340
330


dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 79.86 / 87
p0 −648.2 ± 1207
pull
Entries 88
Mean 93.86
Std Dev 0


pull1D
Entries 88
Mean 0.01129
Std Dev 0.9526


dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 86.7 / 87
p0 1105 ± 0.8532
1130
1120
1110
1100
1090
1080


asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 87.42 / 87
p0 −2234 ± 403.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −425.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.004852
Std Dev 0.9967
16
14
12
10
8
6
4
2
0
−8
−6
−4
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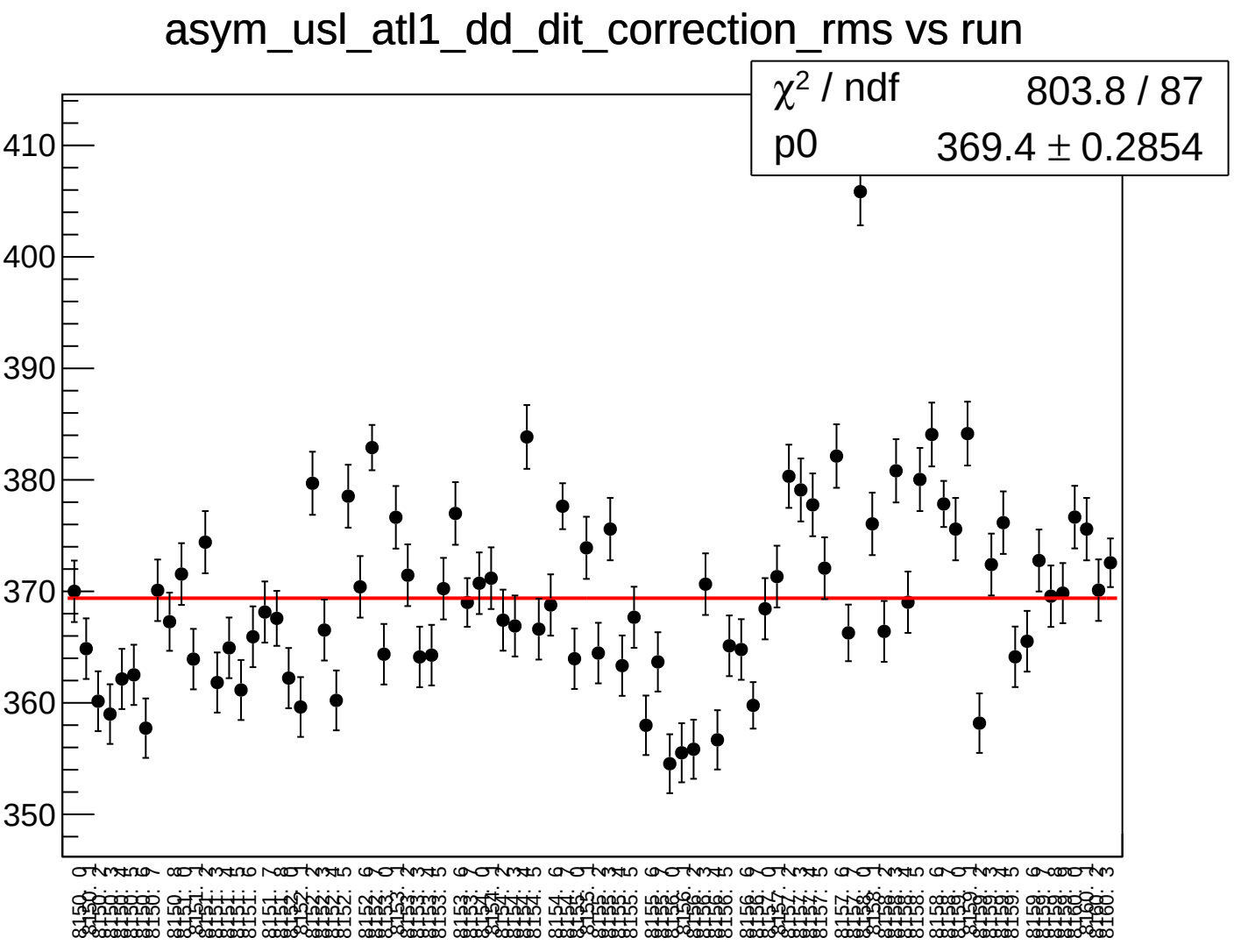
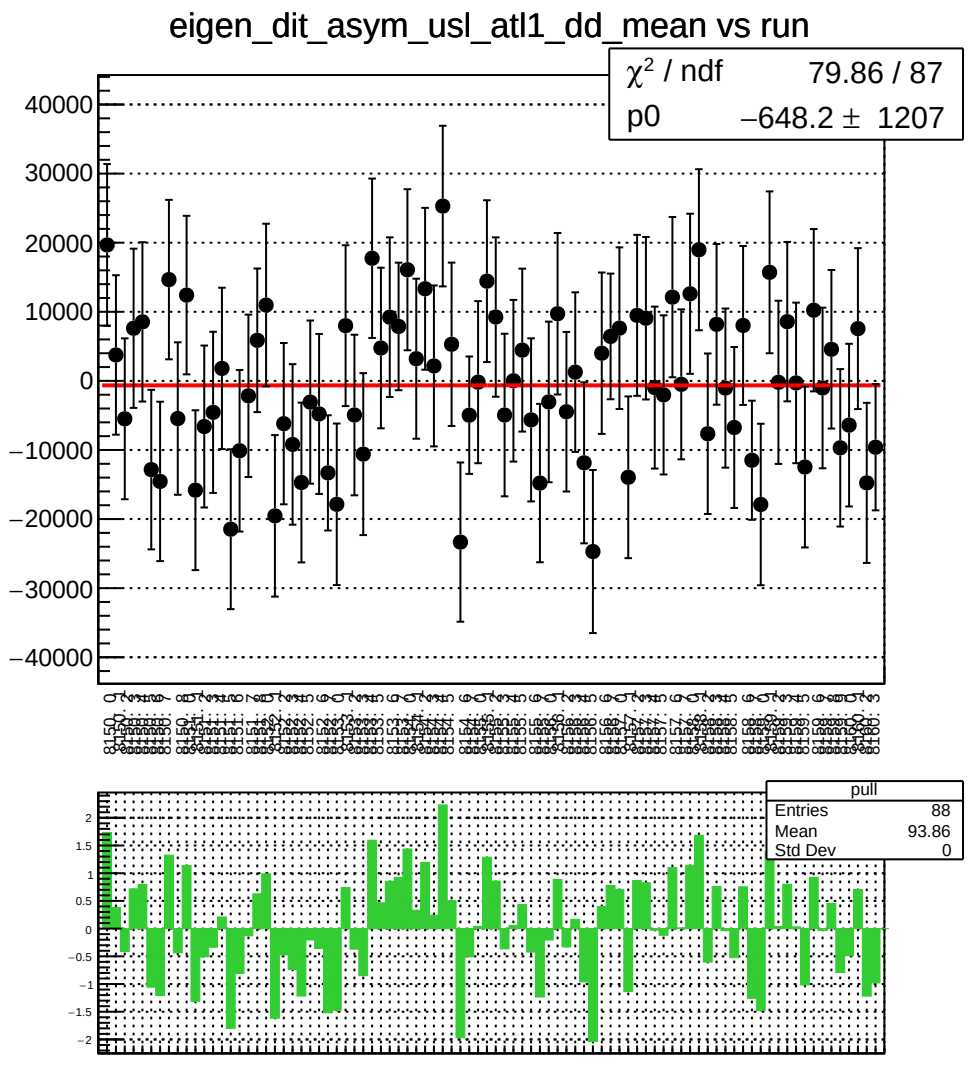
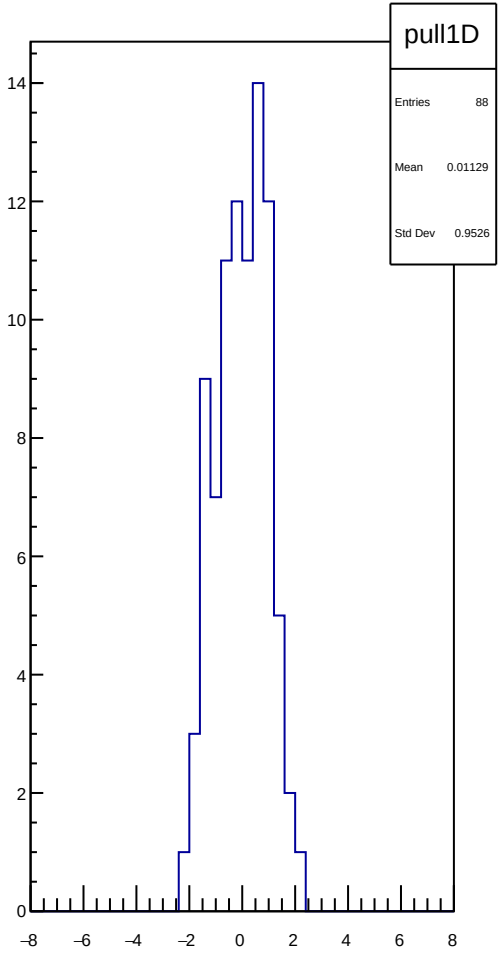
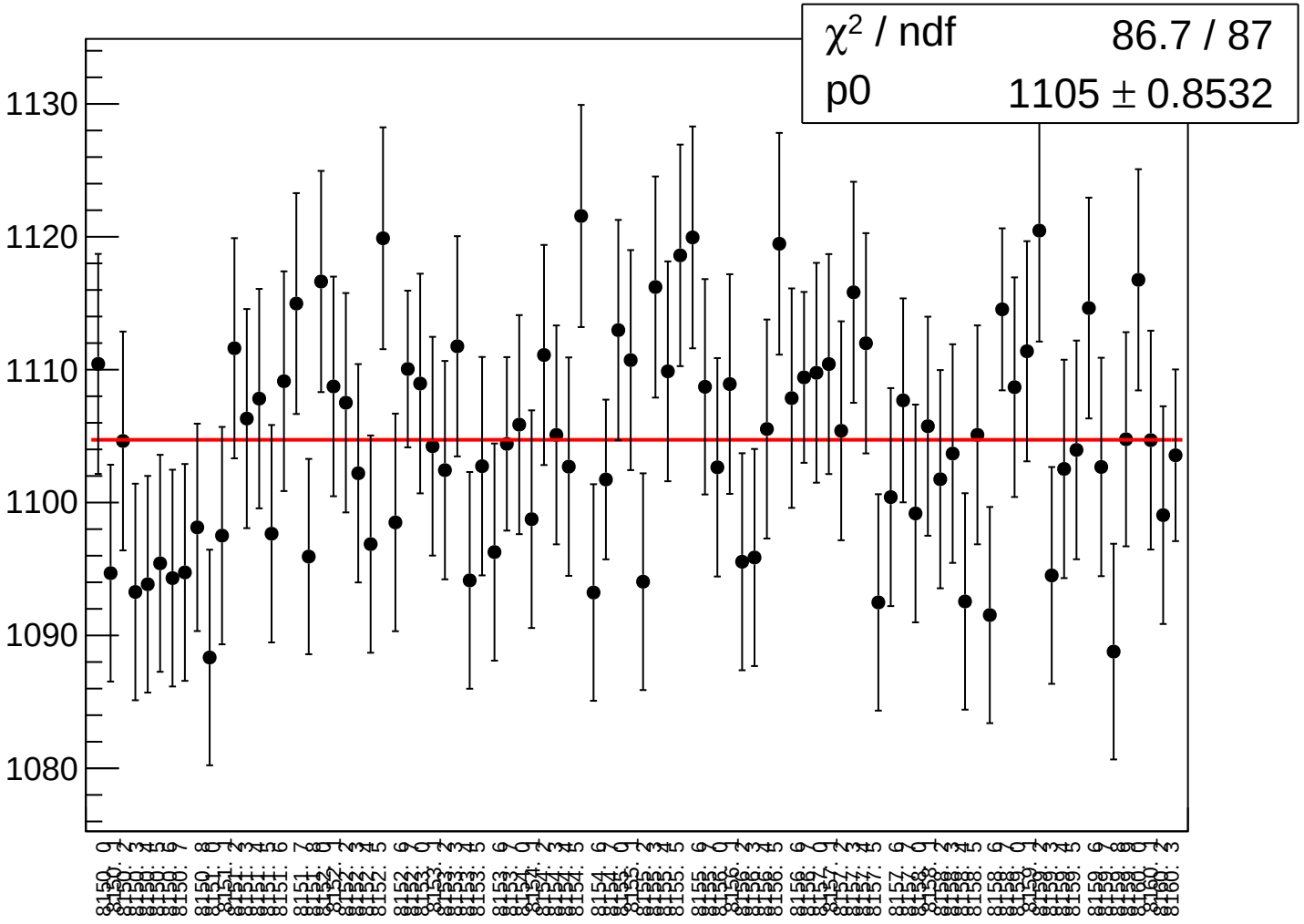
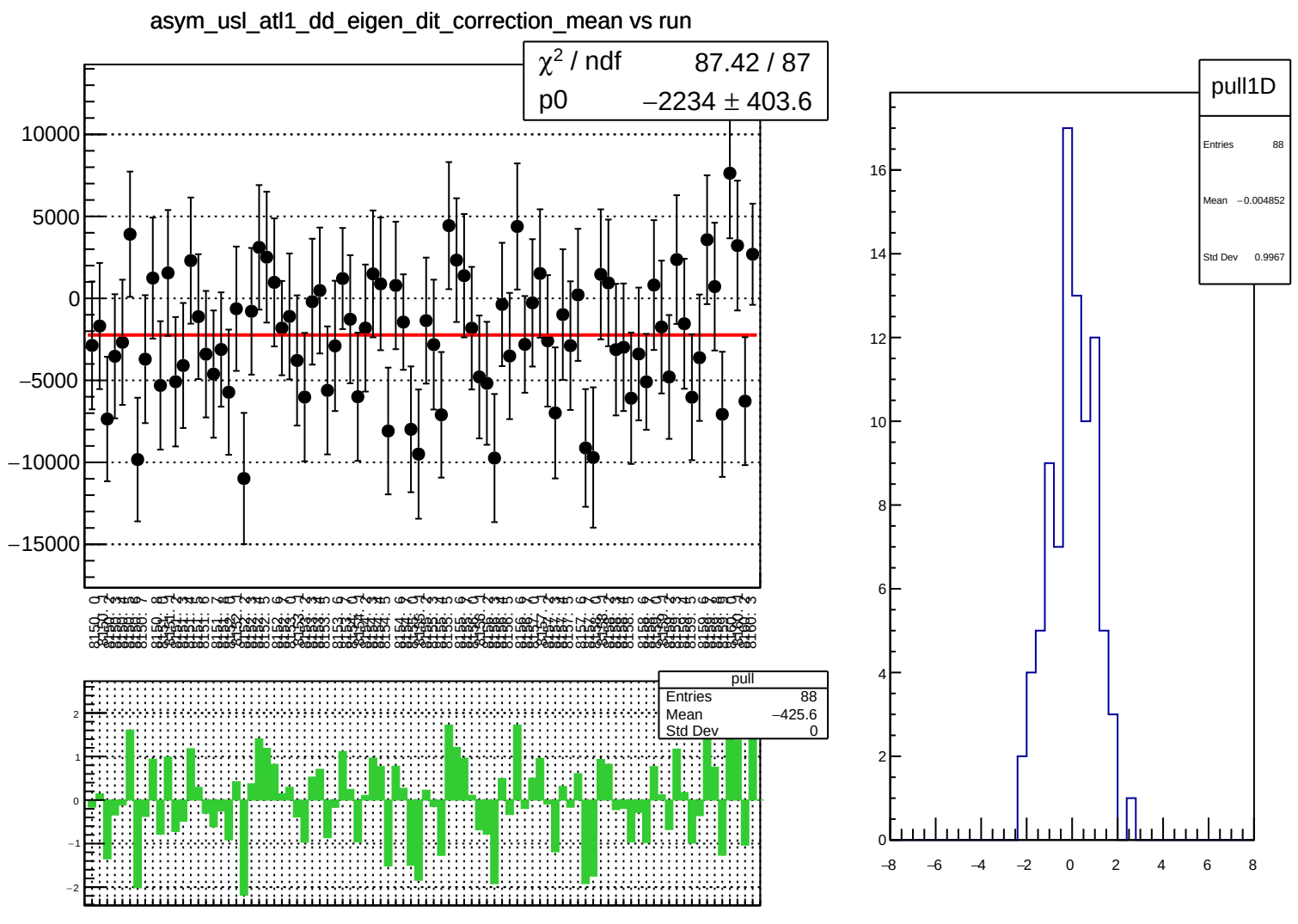
0
2
4
6
8

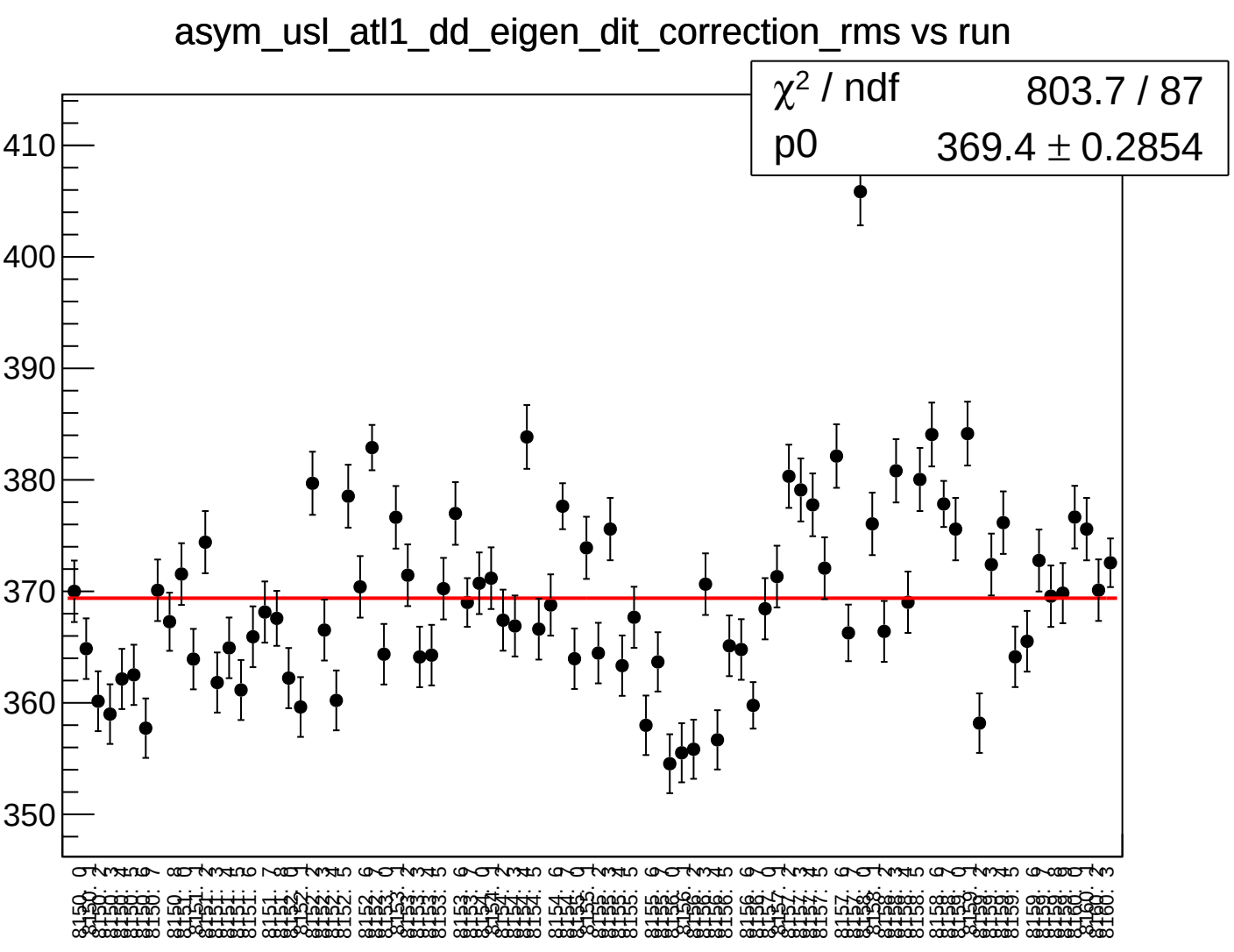

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 803.8 / 87
p0 369.4 ± 0.2854
410
400
390
380
370
360
350

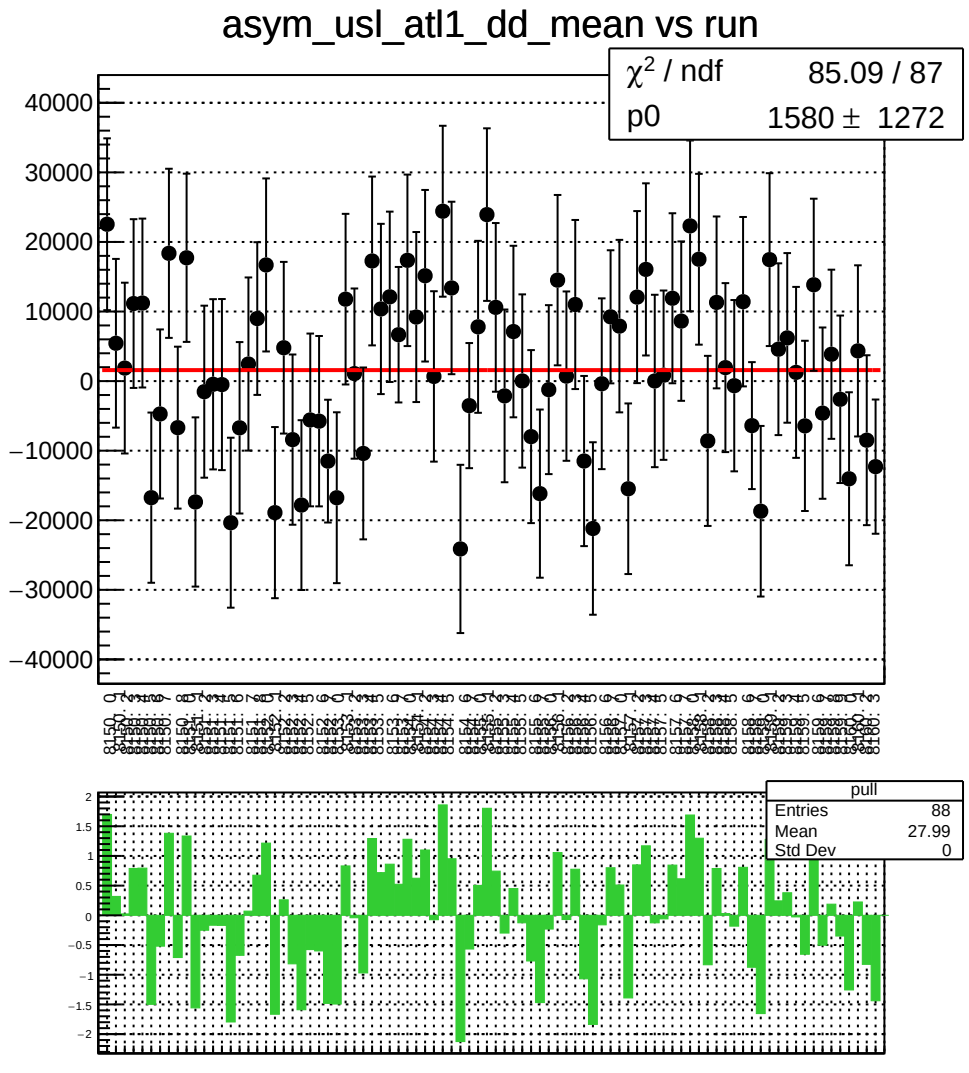

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 79.86 / 87
p0 −648.2 ± 1207
pull
Entries 88
Mean 93.86
Std Dev 0

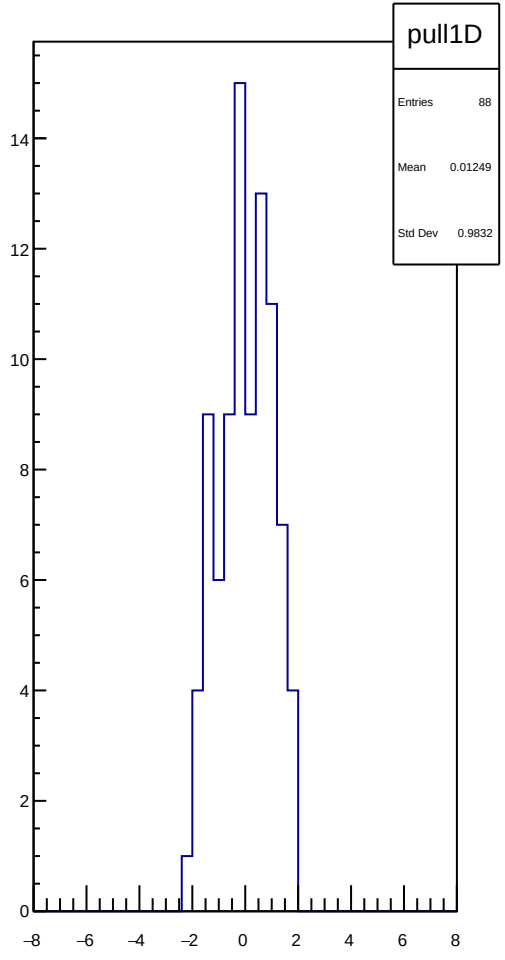

pull1D
Entries 88
Mean 0.01129
Std Dev 0.9526

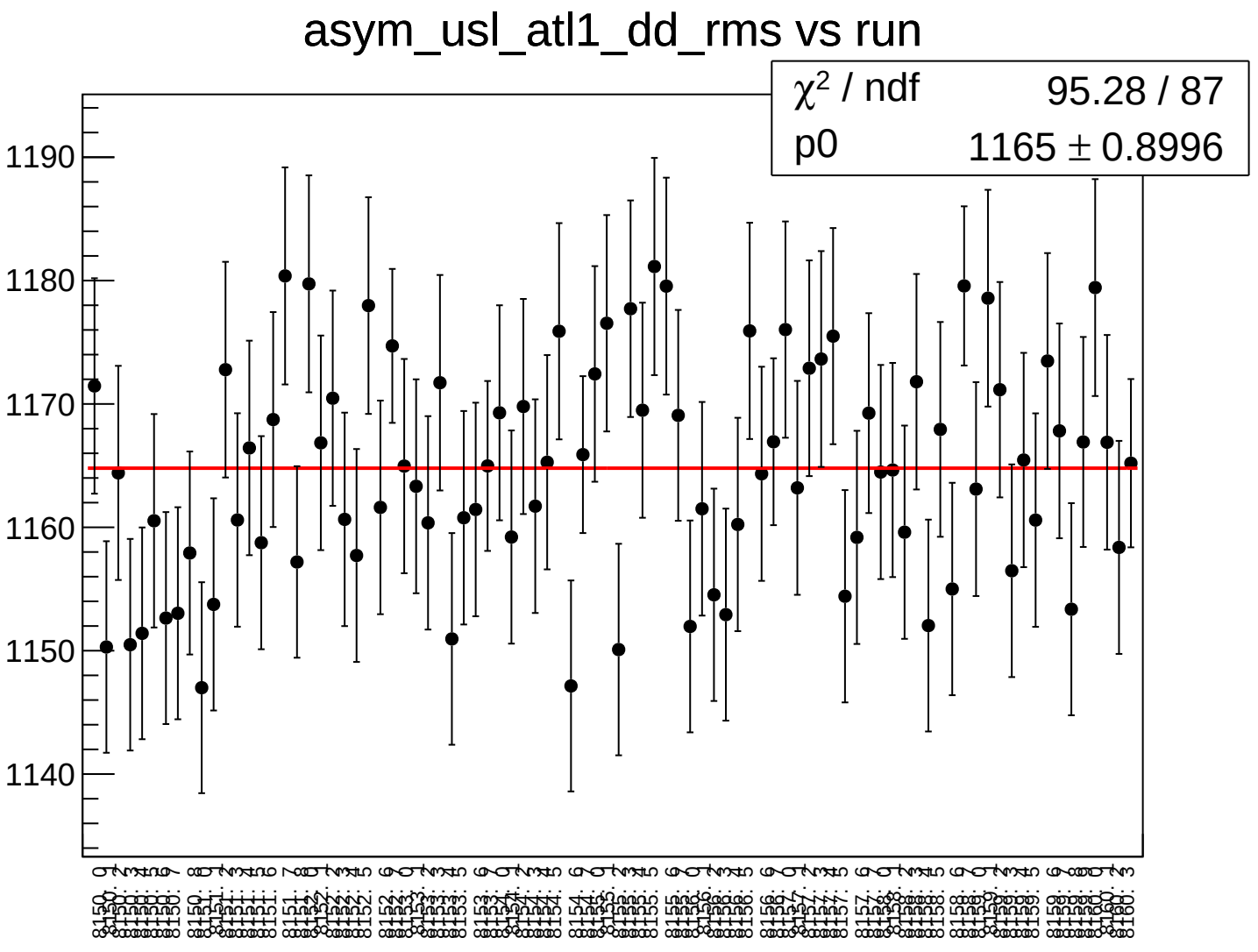

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 86.7 / 87
p0 1105 ± 0.8532
1130
1120
1110
1100
1090
1080

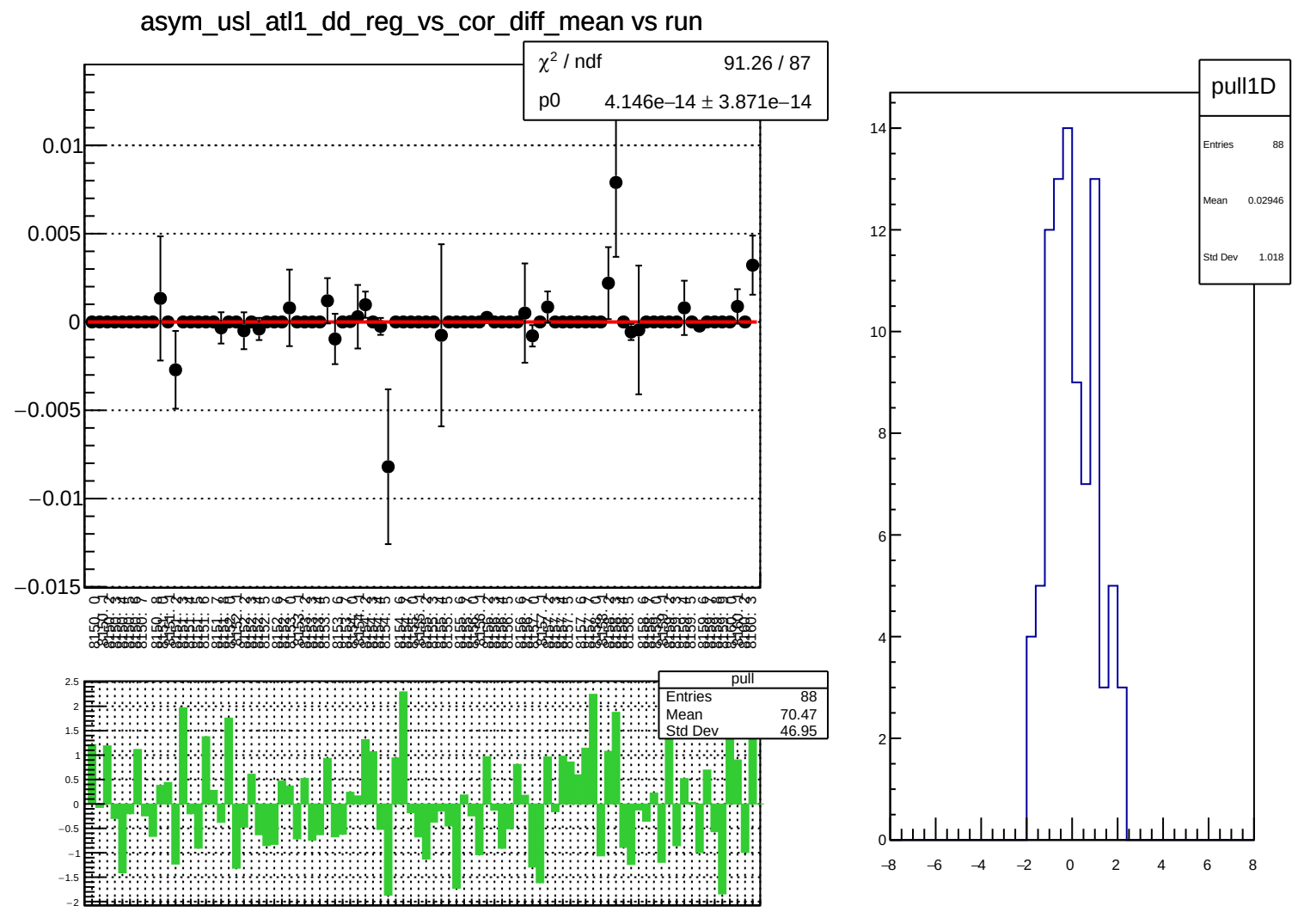

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.42 / 87
p0 −2234 ± 403.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −425.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.004852
Std Dev 0.9967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

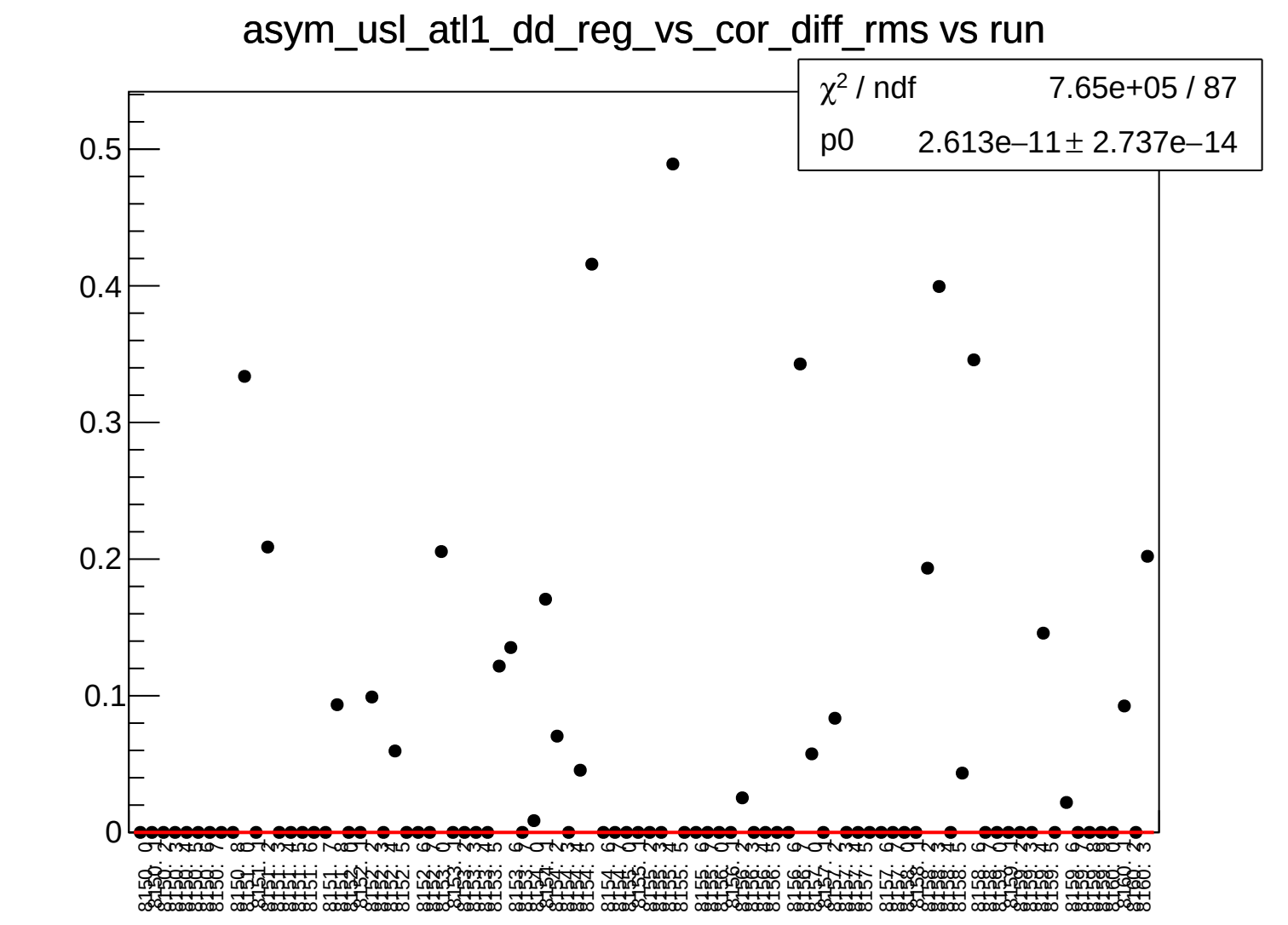

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 803.7 / 87
p0 369.4 ± 0.2854
410
400
390
380
370
360
350

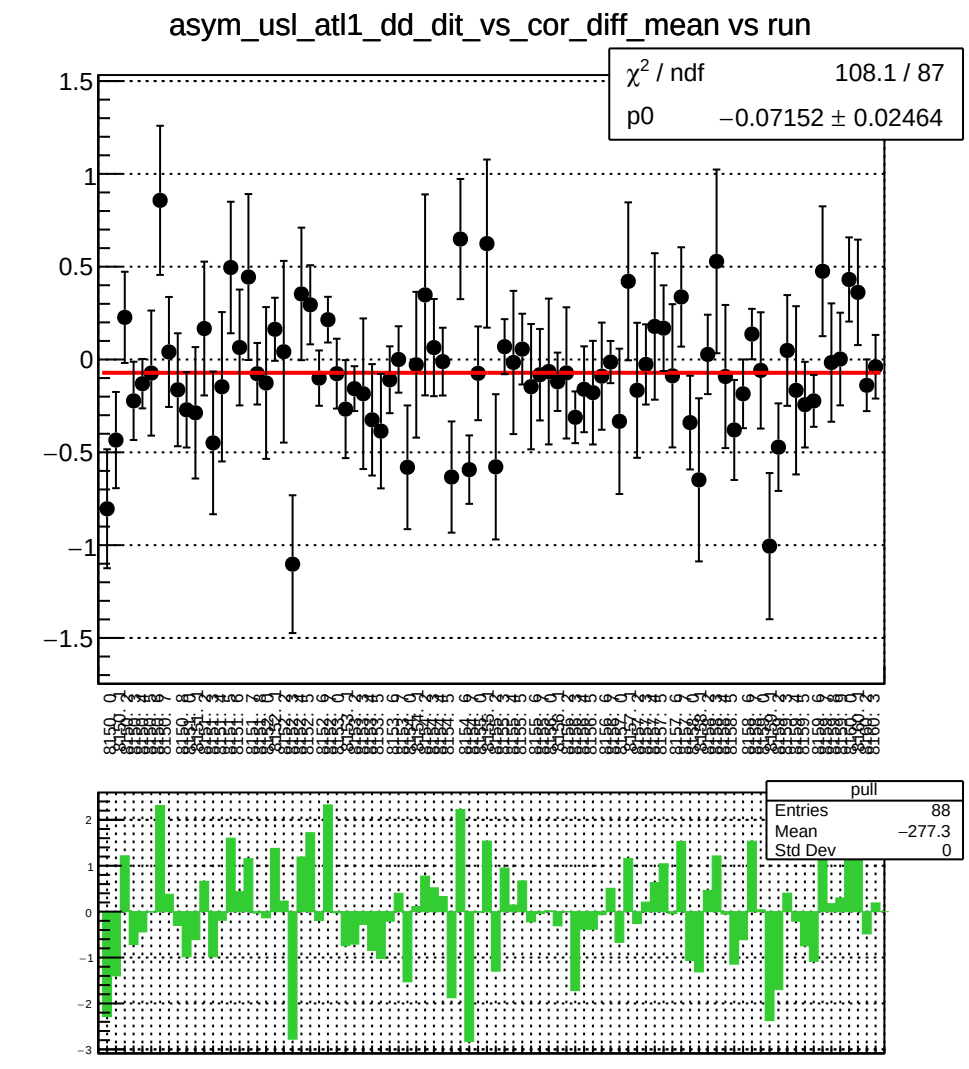

asym_usl_atl1_dd_mean vs run
χ² / ndf 85.09 / 87
p0 1580 ± 1272
pull
Entries 88
Mean 27.99
Std Dev 0

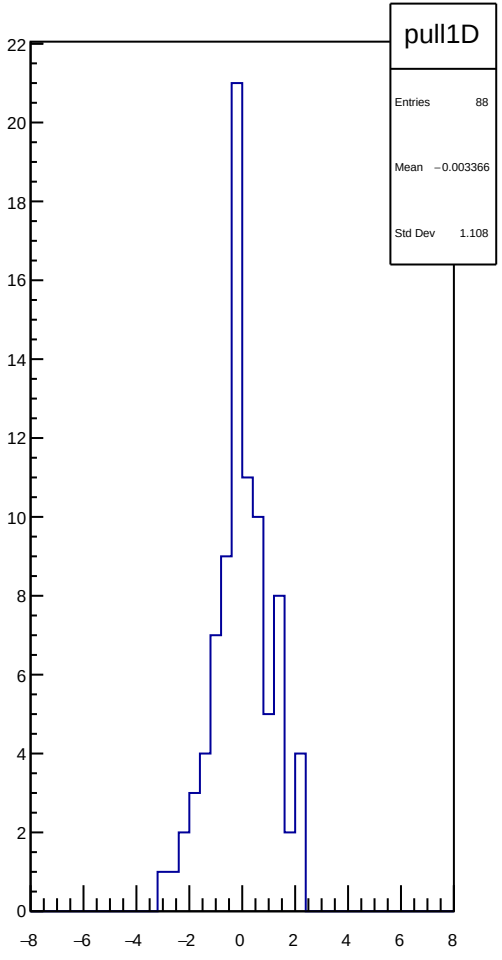

pull1D
Entries 88
Mean 0.01249
Std Dev 0.9832

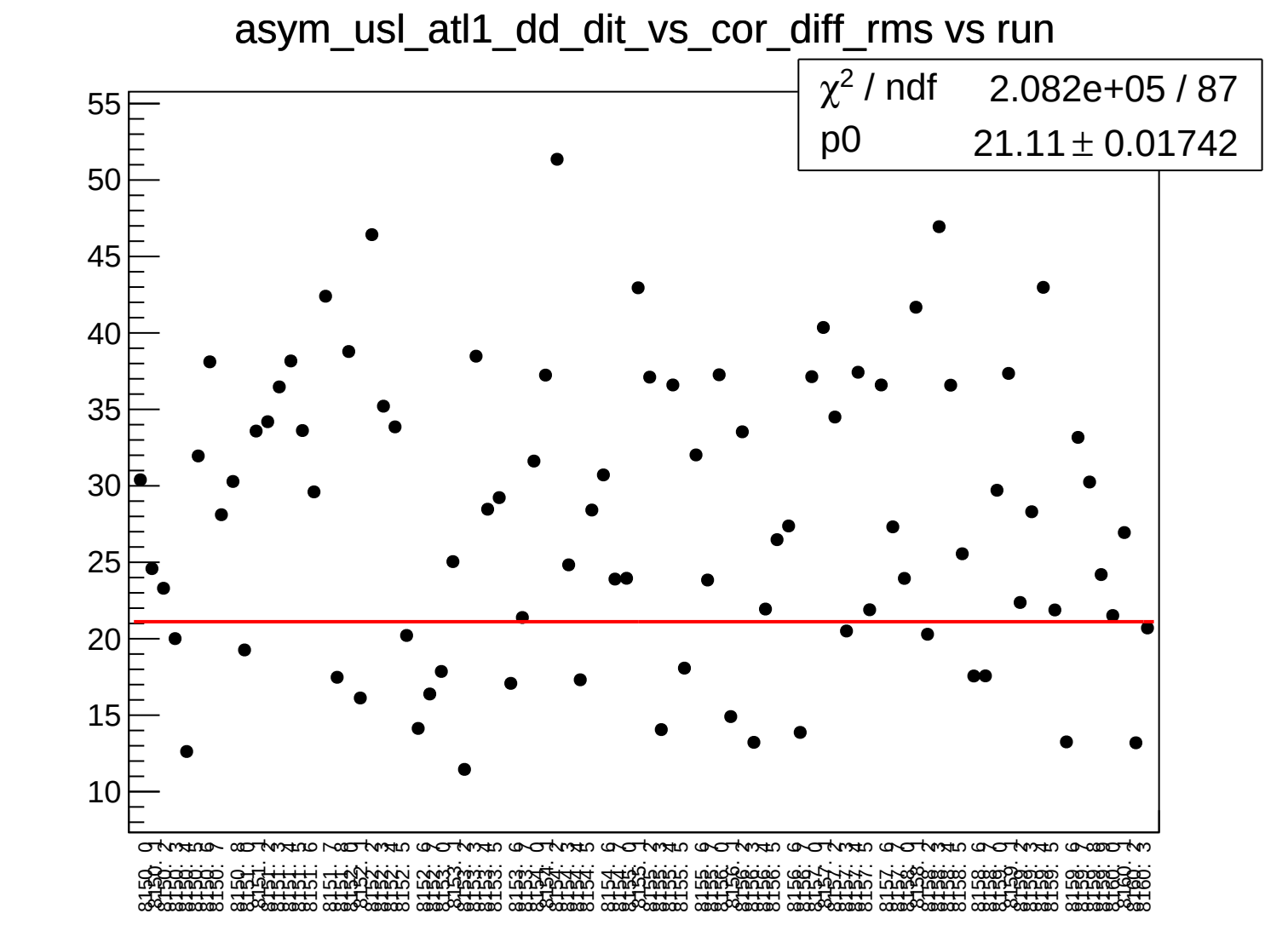

asym_usl_atl1_dd_rms vs run
χ² / ndf 95.28 / 87
p0 1165 ± 0.8996
1190
1180
1170
1160
1150
1140

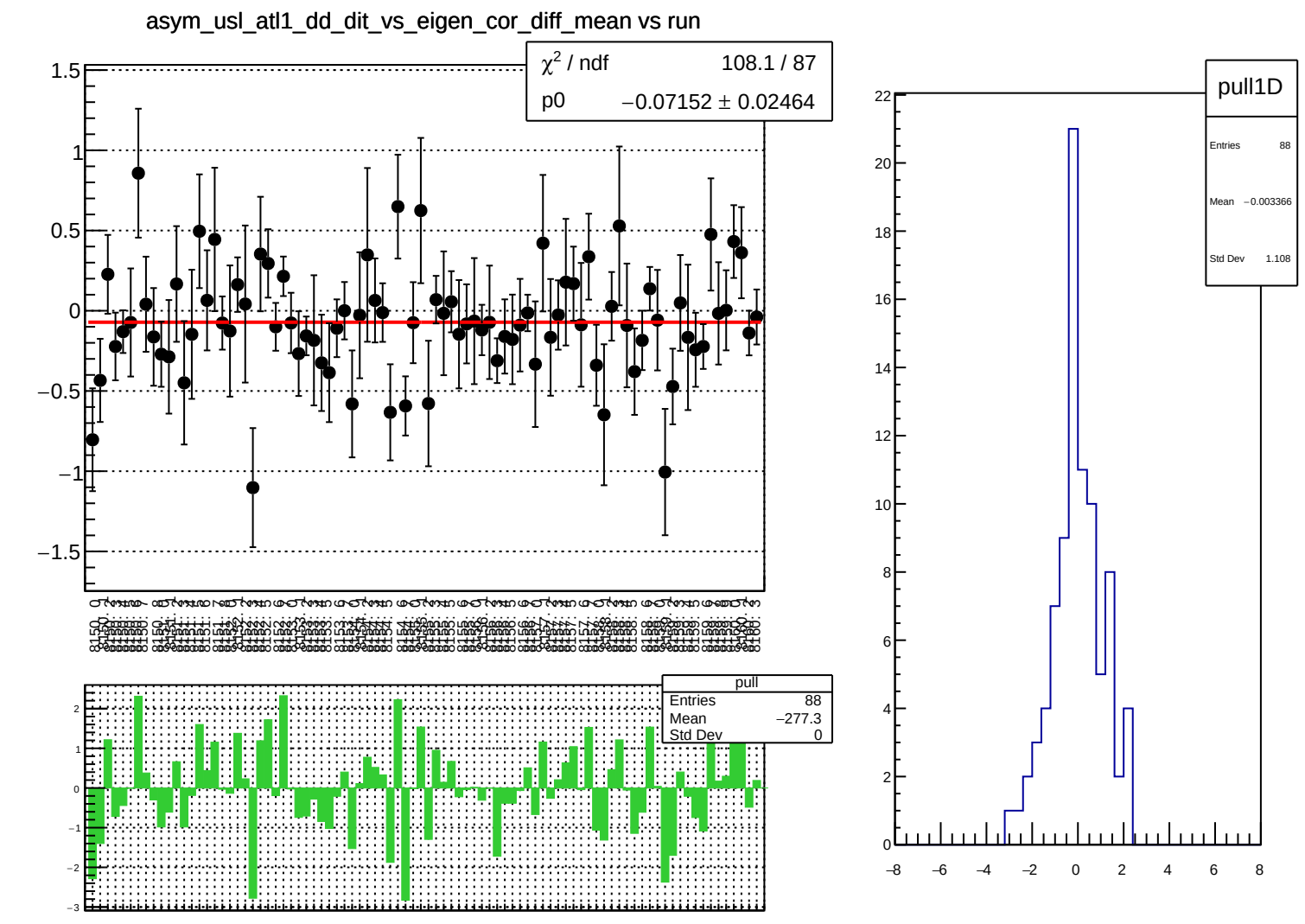

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.26 / 87
p0 4.146e−14 ± 3.871e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 70.47
Std Dev 46.95
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.02946
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

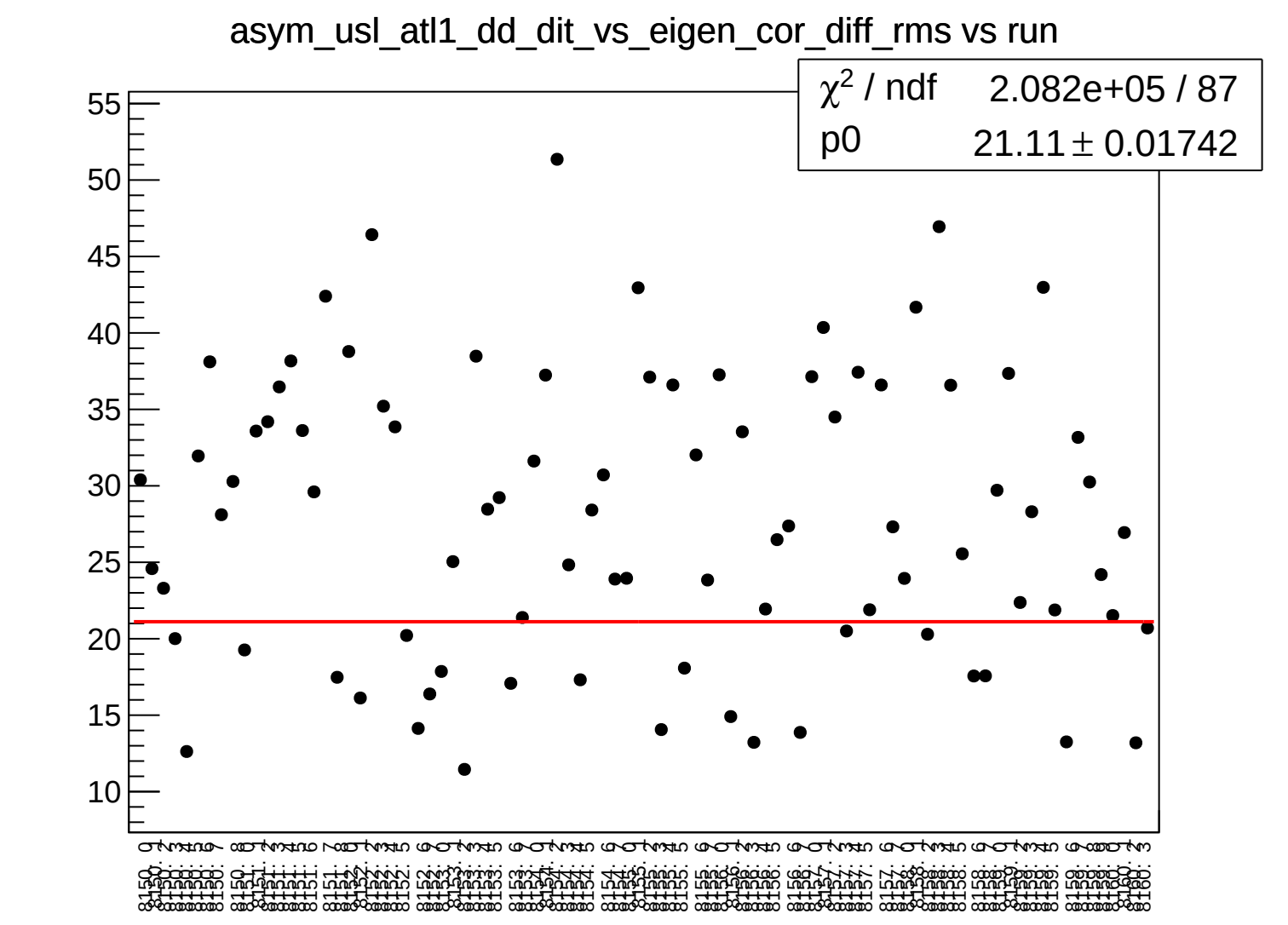

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.65e+05 / 87
p0 2.613e−11 ± 2.737e−14
0.5
0.4
0.3
0.2
0.1
0

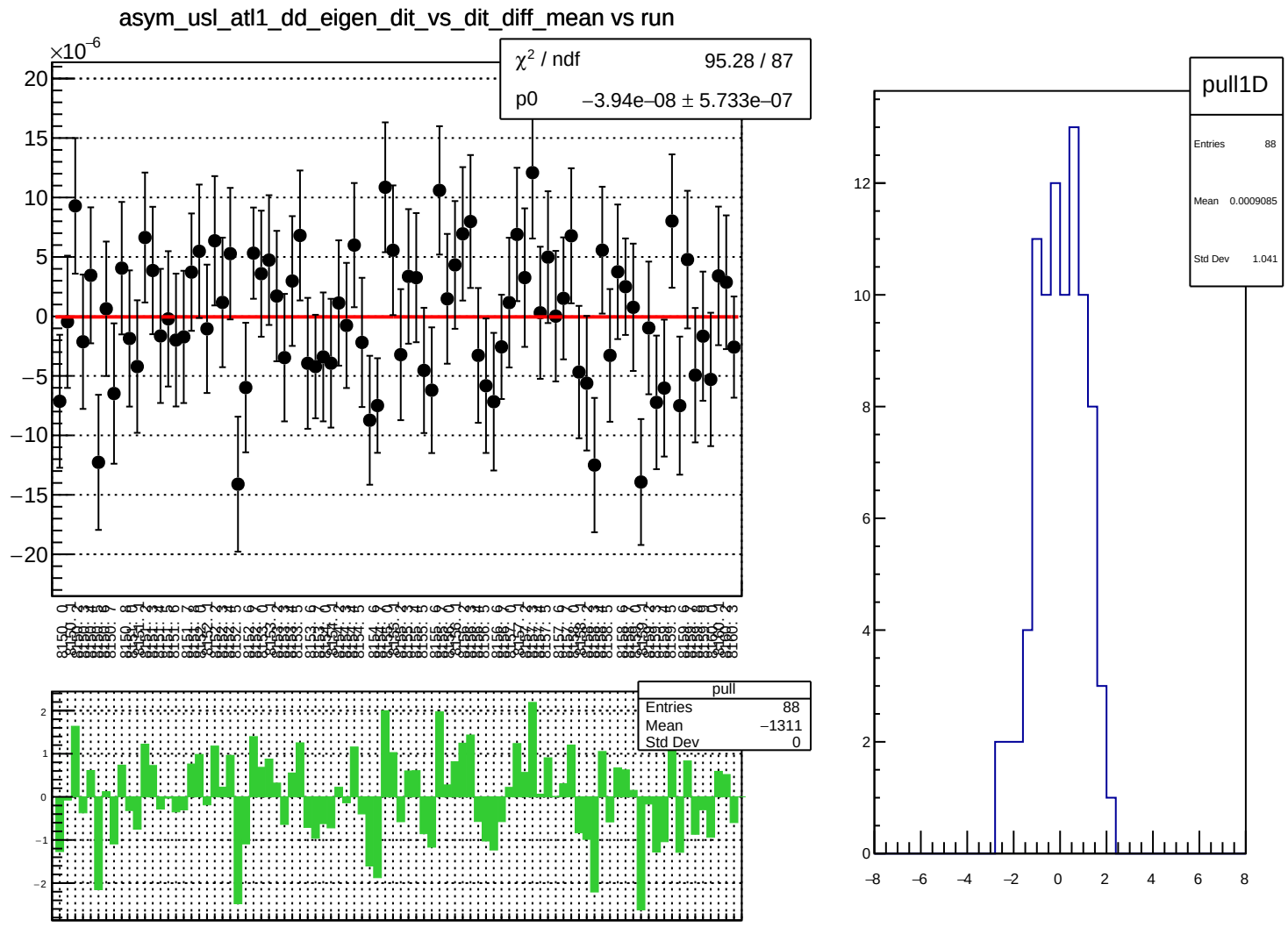

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 87
p0 −0.07152 ± 0.02464
pull
Entries 88
Mean −277.3
Std Dev 0

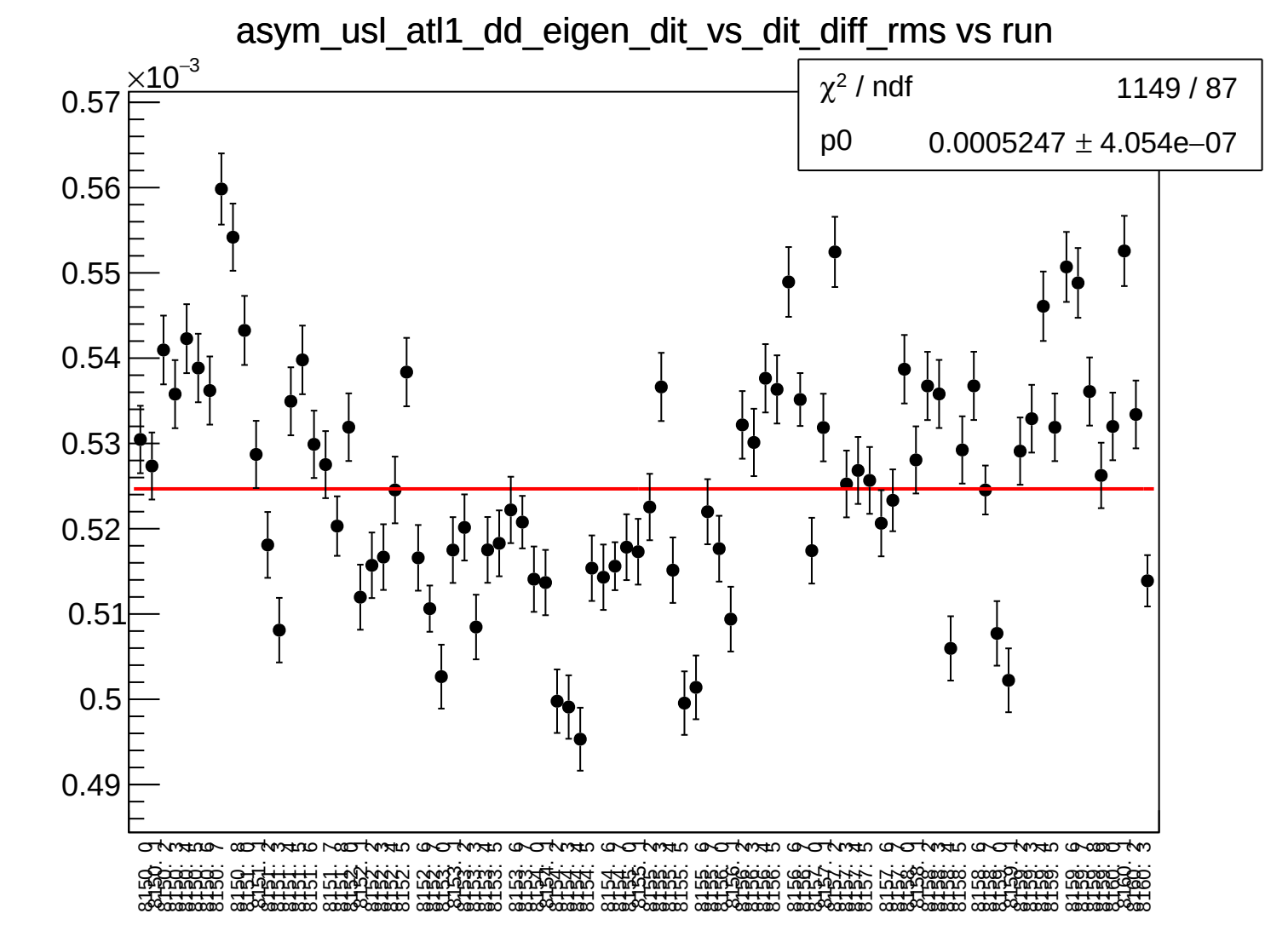

pull1D
Entries 88
Mean −0.003366
Std Dev 1.108

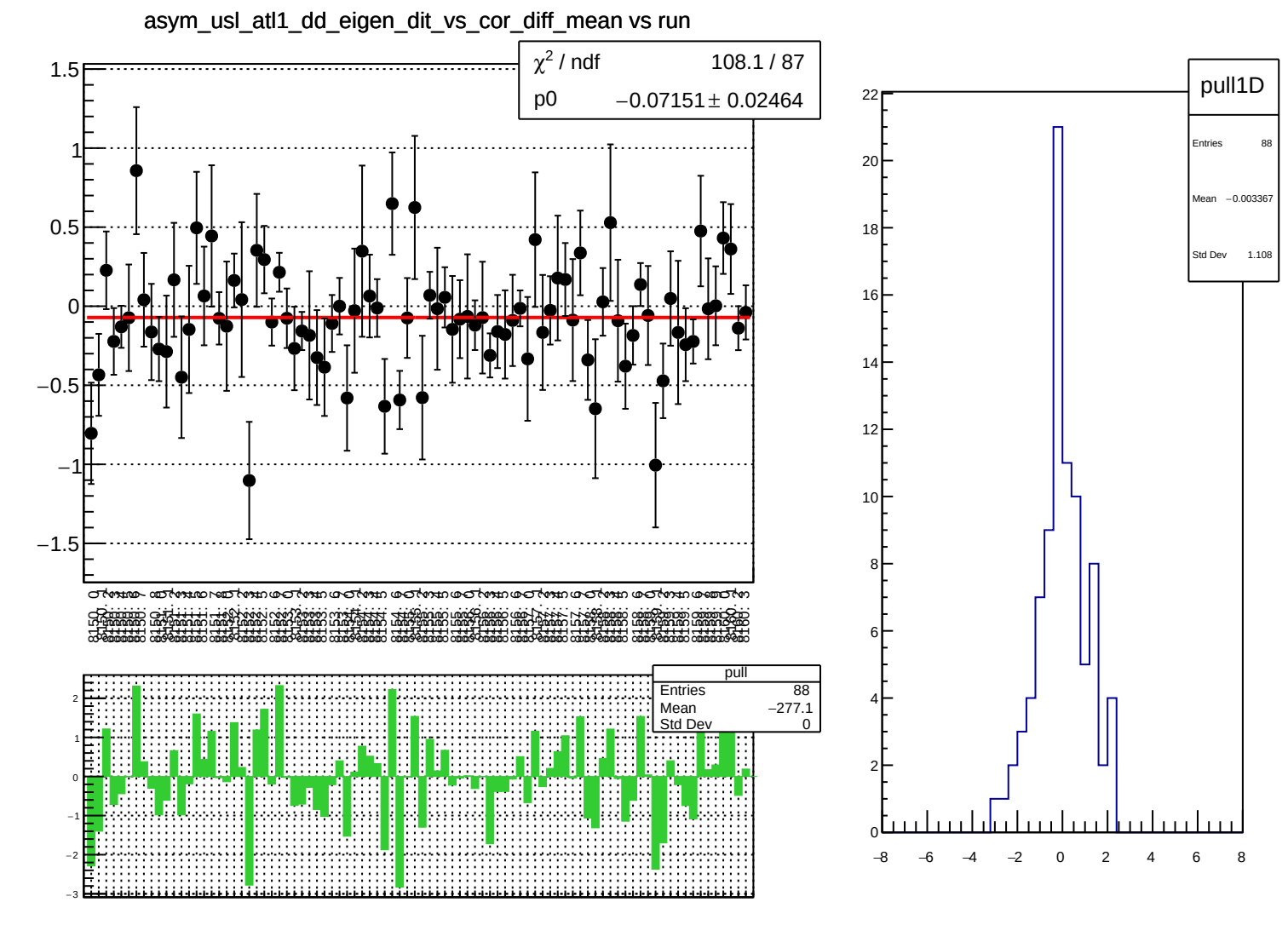

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 87
p0 21.11 ± 0.01742
55
50
45
40
35
30
25
20
15
10

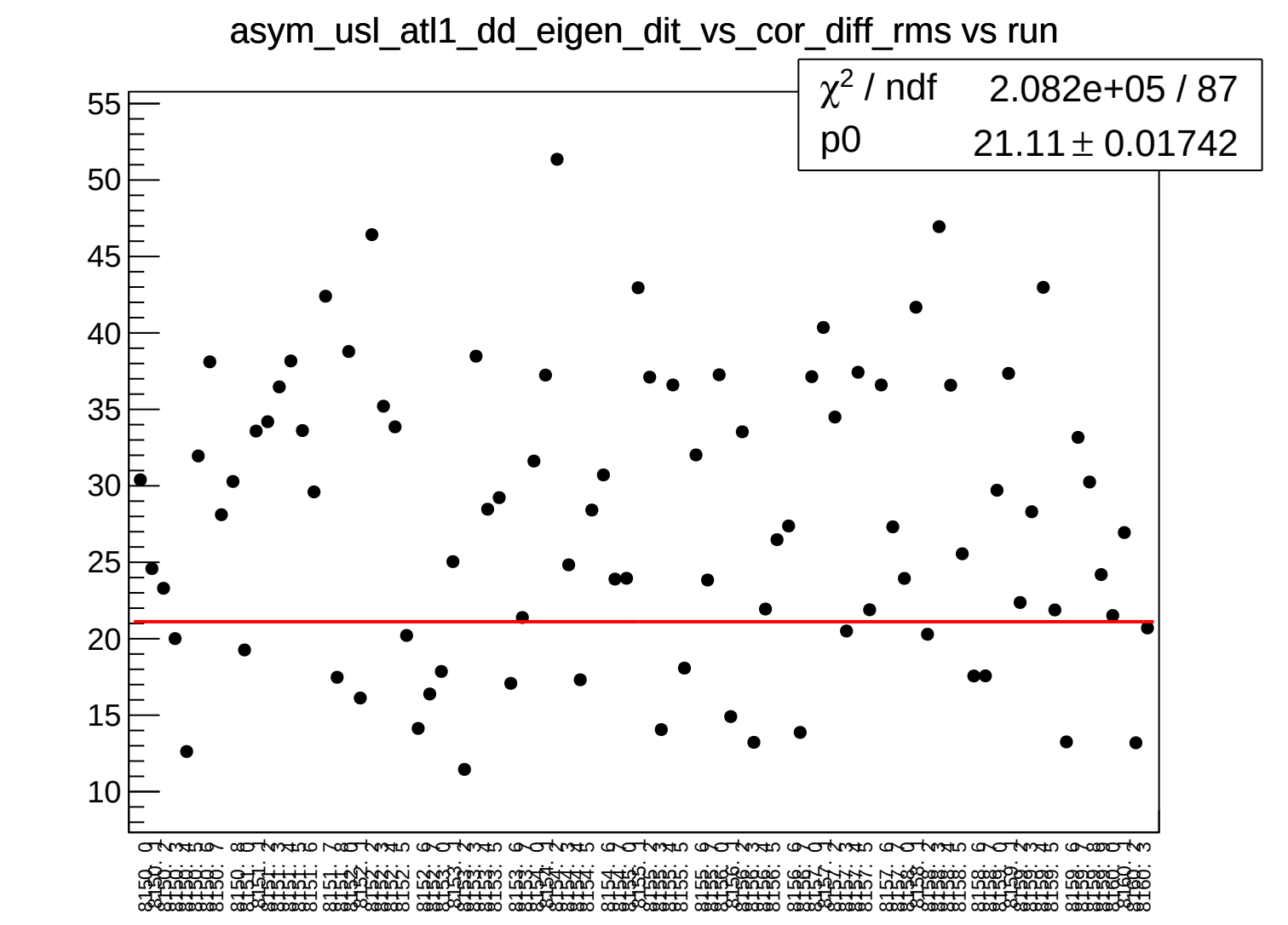

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.1 / 87
p0 −0.07152 ± 0.02464
pull
Entries 88
Mean −277.3
Std Dev 0
pull1D
Entries 88
Mean −0.003366
Std Dev 1.108

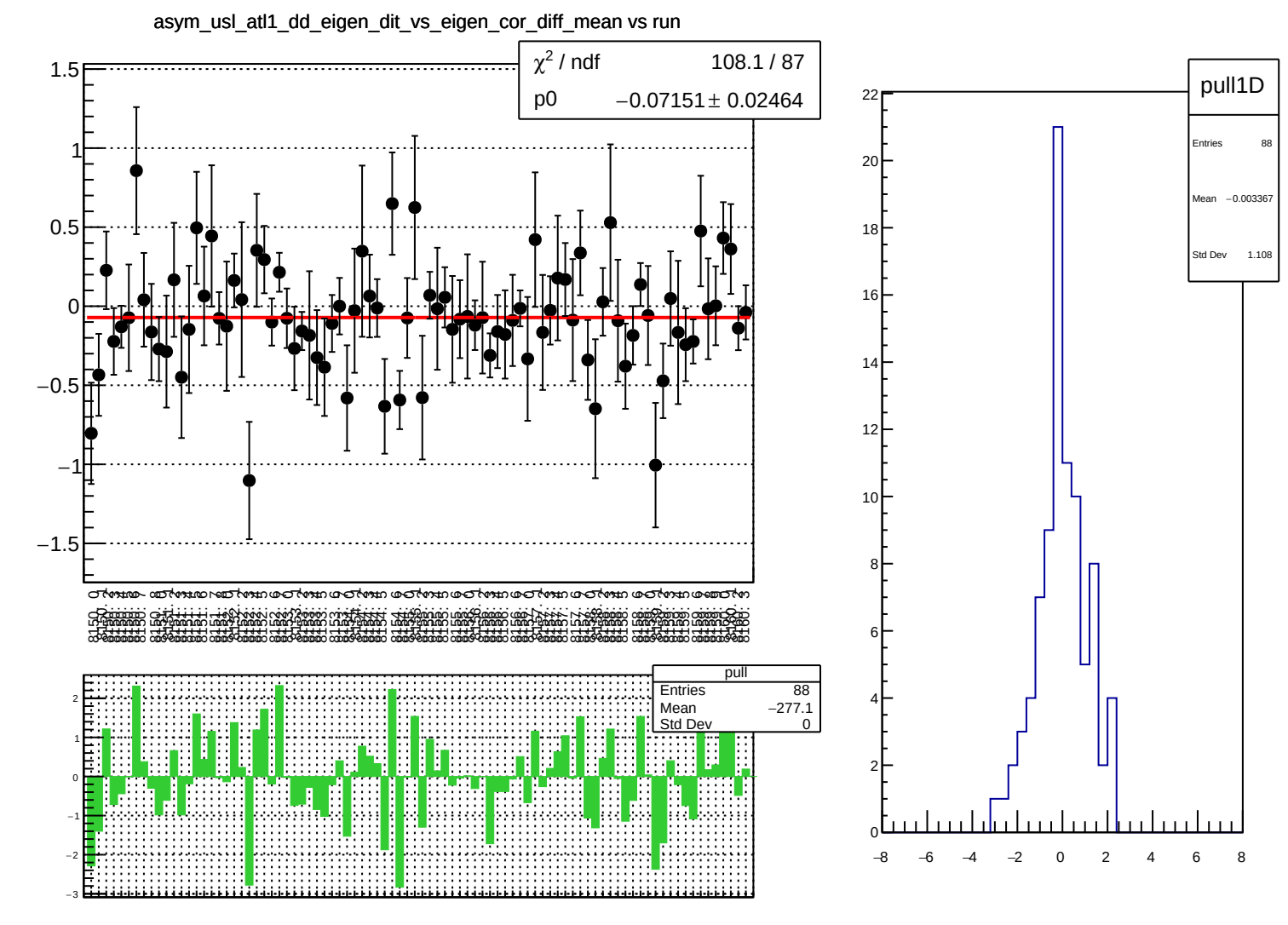

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 87
p0 21.11 ± 0.01742
55
50
45
40
35
30
25
20
15
10

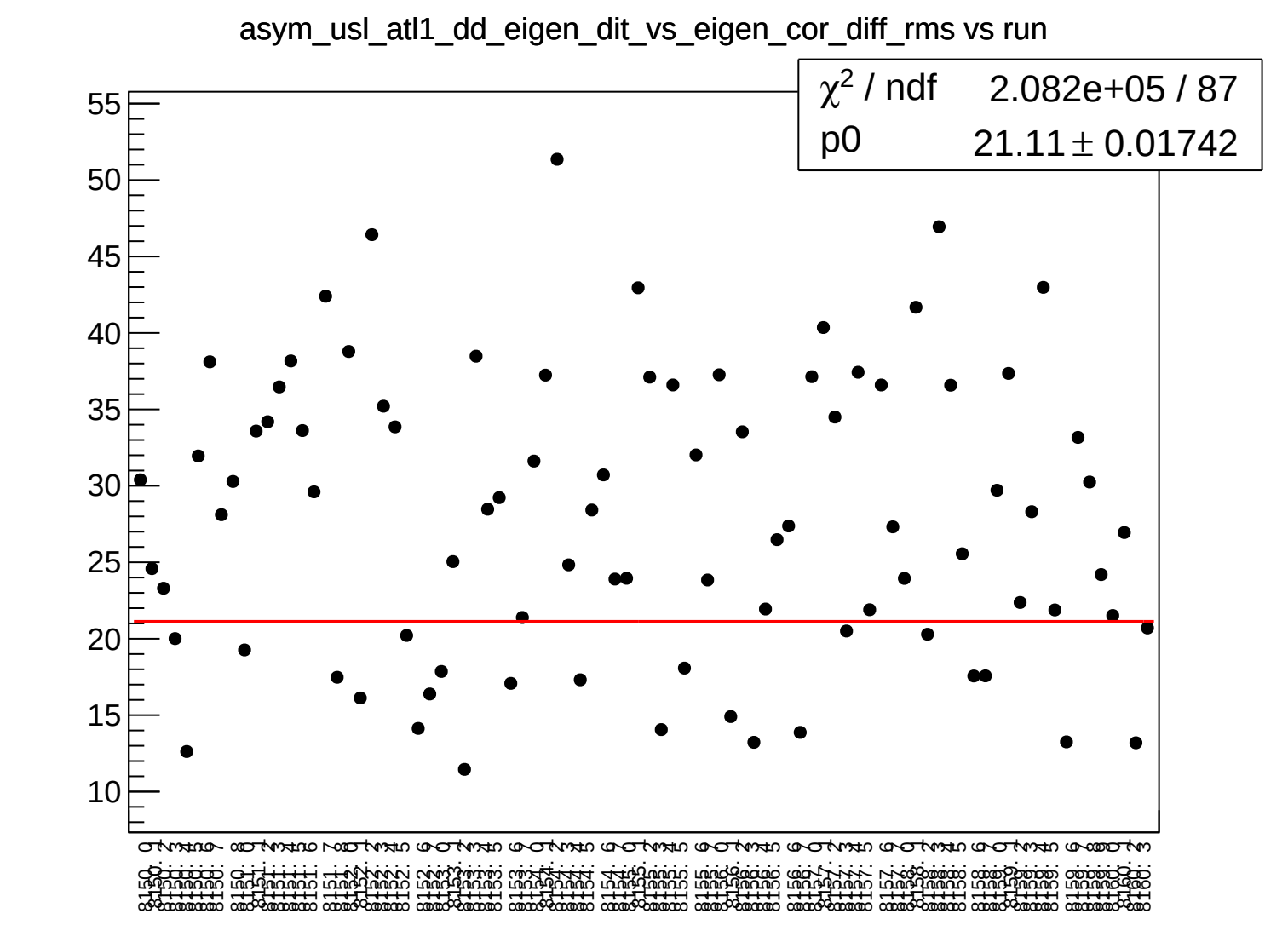

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 95.28 / 87
p0 −3.94e−08 ± 5.733e−07
pull
Entries 88
Mean −1311
Std Dev 0
pull1D
Entries 88
Mean 0.0009085
Std Dev 1.041

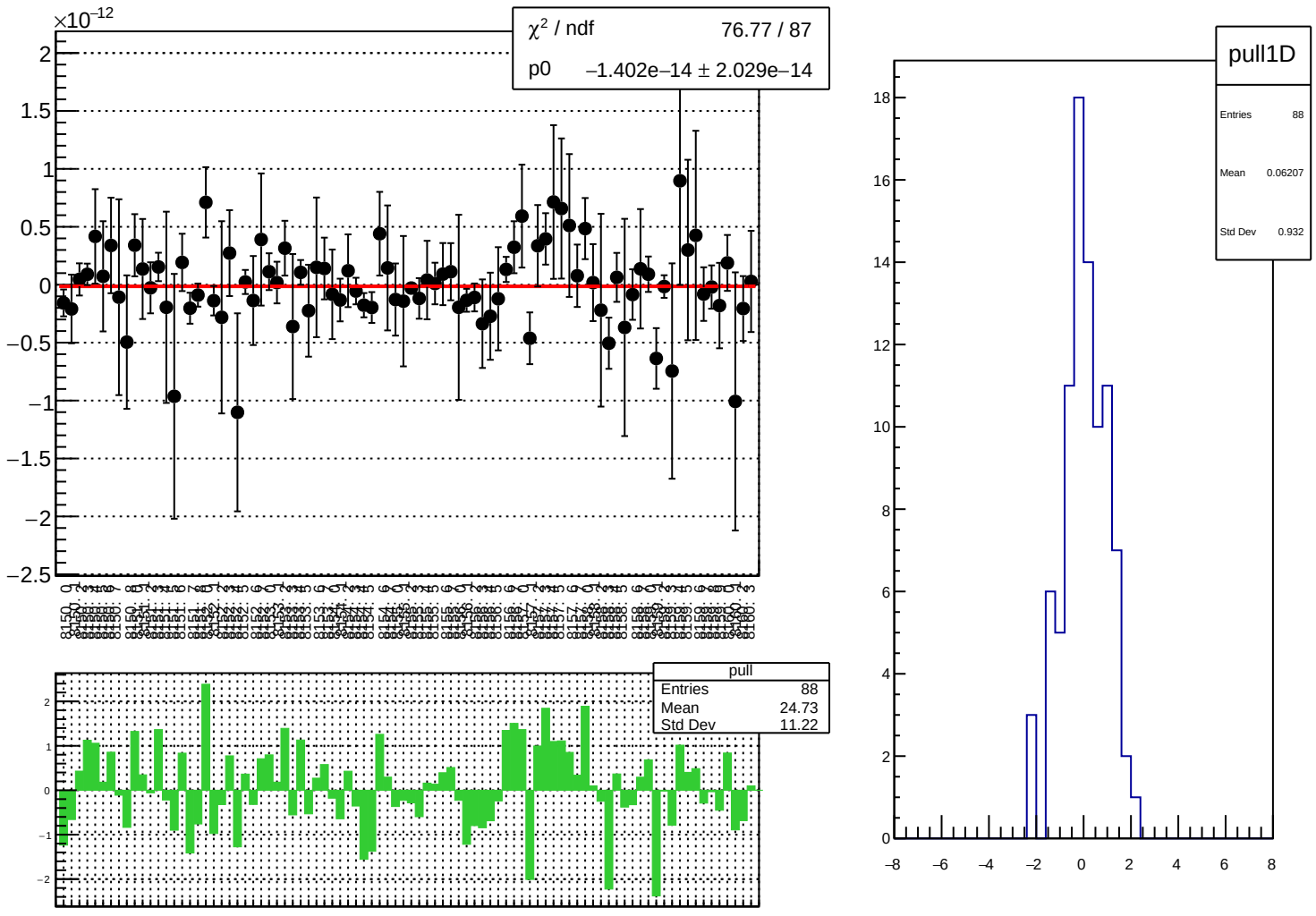

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1149 / 87
p0 0.0005247 ± 4.054e−07
0.57
0.56
0.55
0.54
0.53
0.52
0.51
0.5
0.49

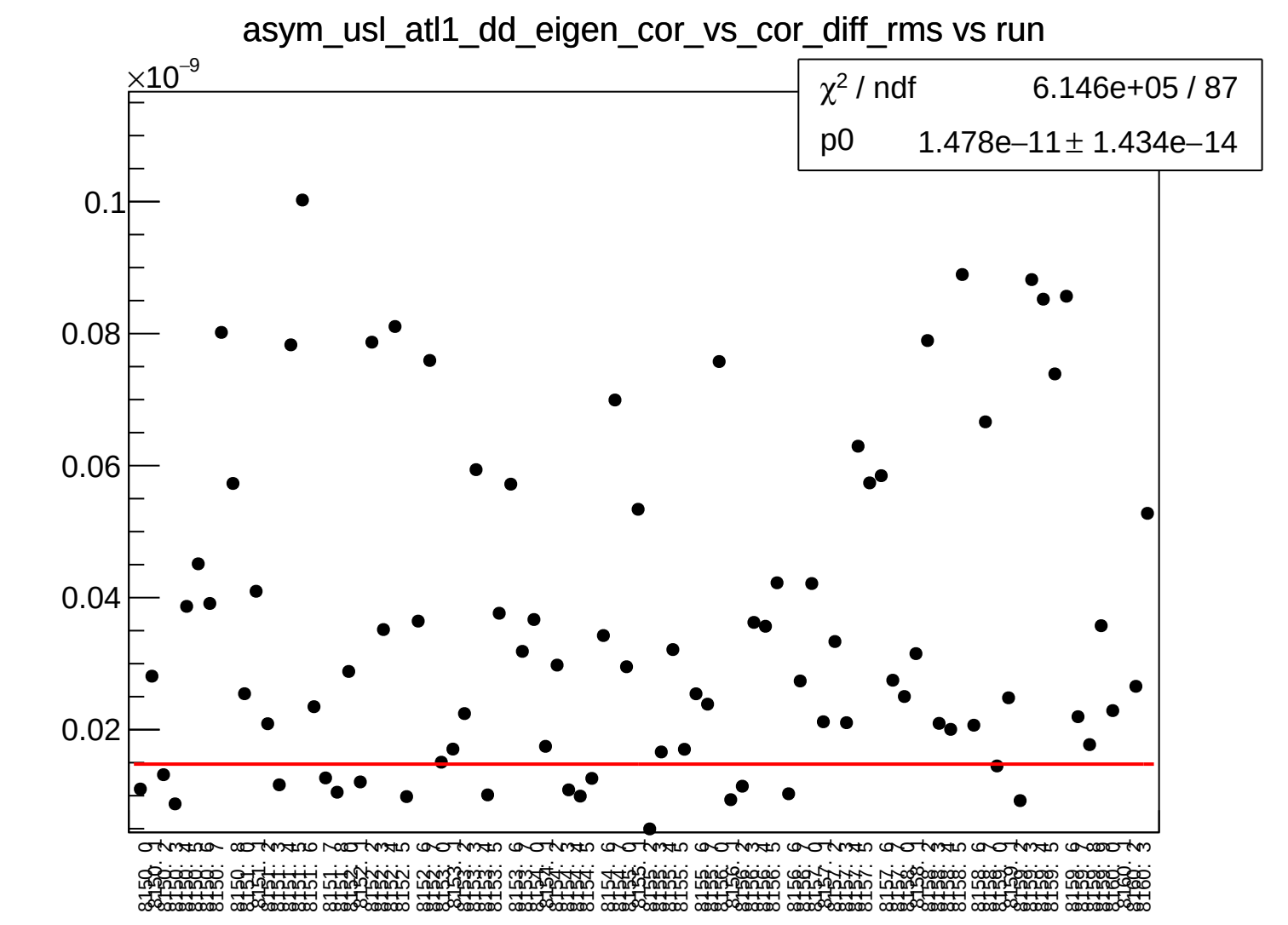

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 87
p0 −0.07151 ± 0.02464
pull
Entries 88
Mean −277.1
Std Dev 0
pull1D
Entries 88
Mean −0.003367
Std Dev 1.108

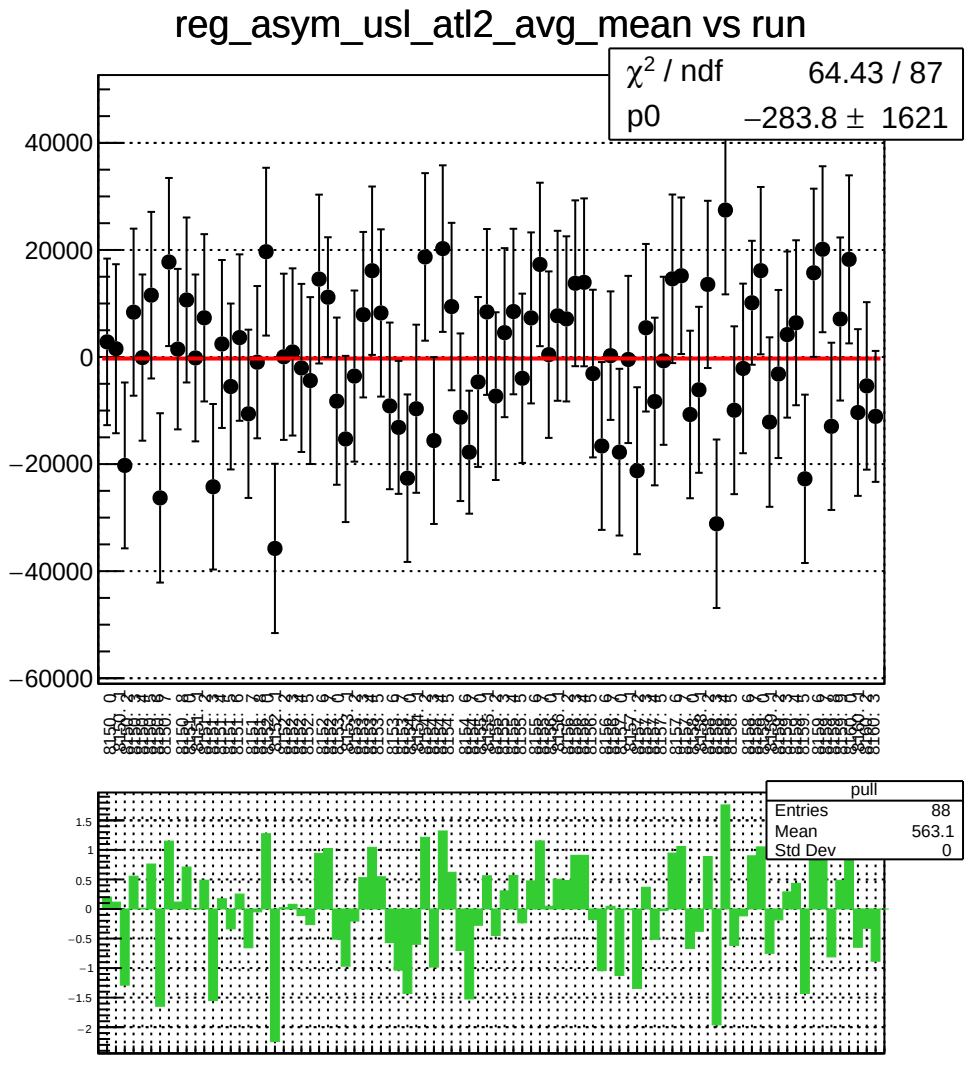

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 87
p0 21.11 ± 0.01742
55
50
45
40
35
30
25
20
15
10

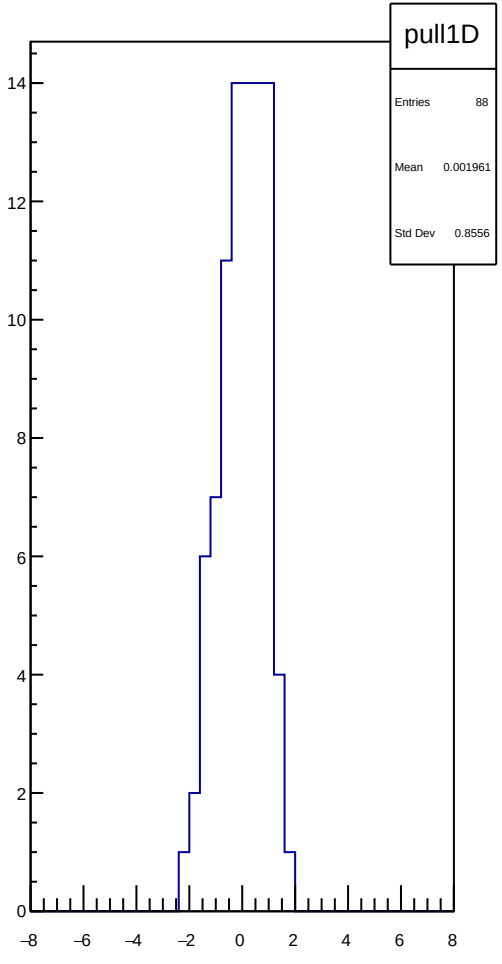

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.1 / 87
p0 −0.07151 ± 0.02464
pull
Entries 88
Mean −277.1
Std Dev 0
pull1D
Entries 88
Mean −0.003367
Std Dev 1.108

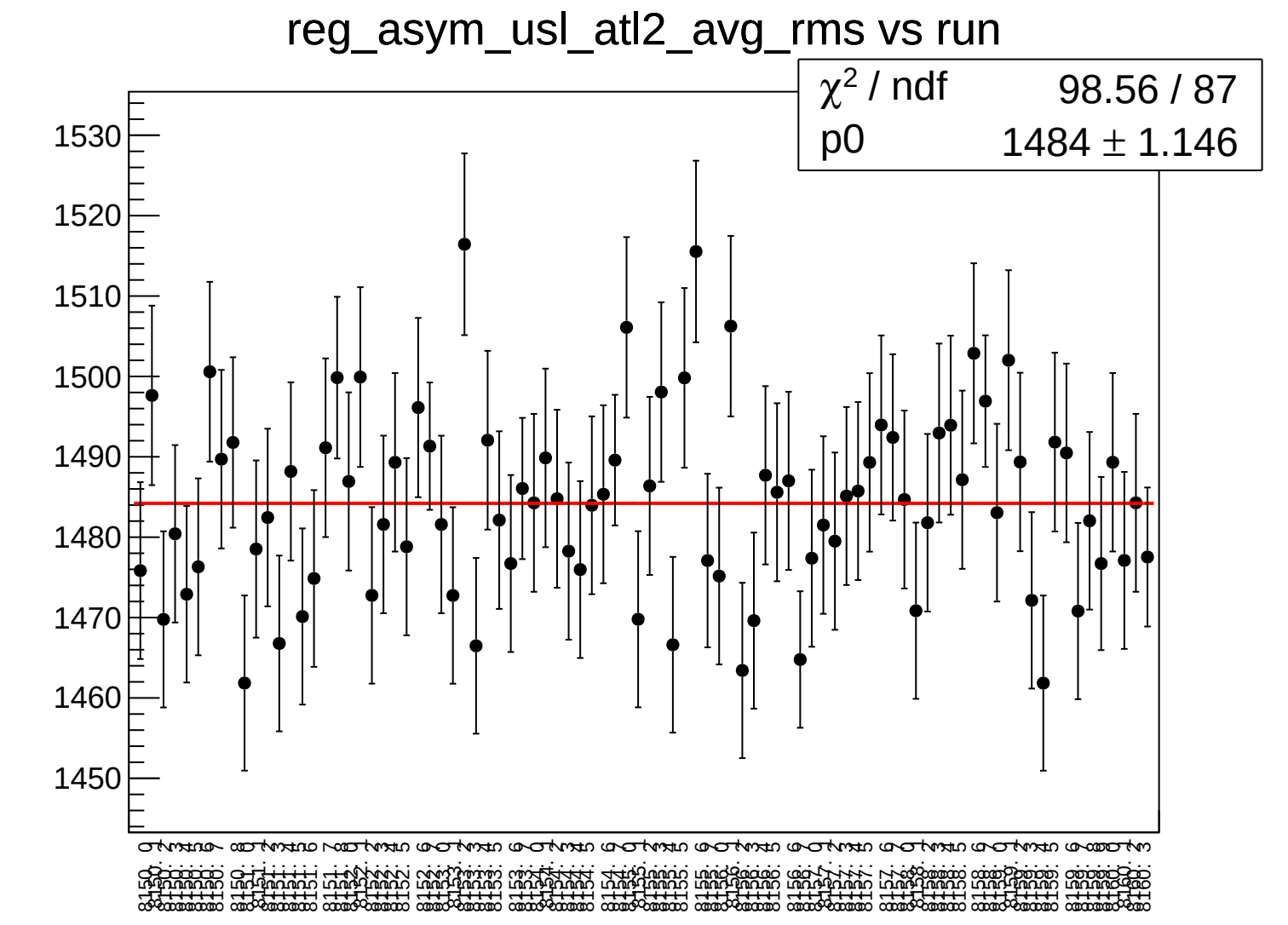

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 87
p0 21.11 ± 0.01742
55
50
45
40
35
30
25
20
15
10

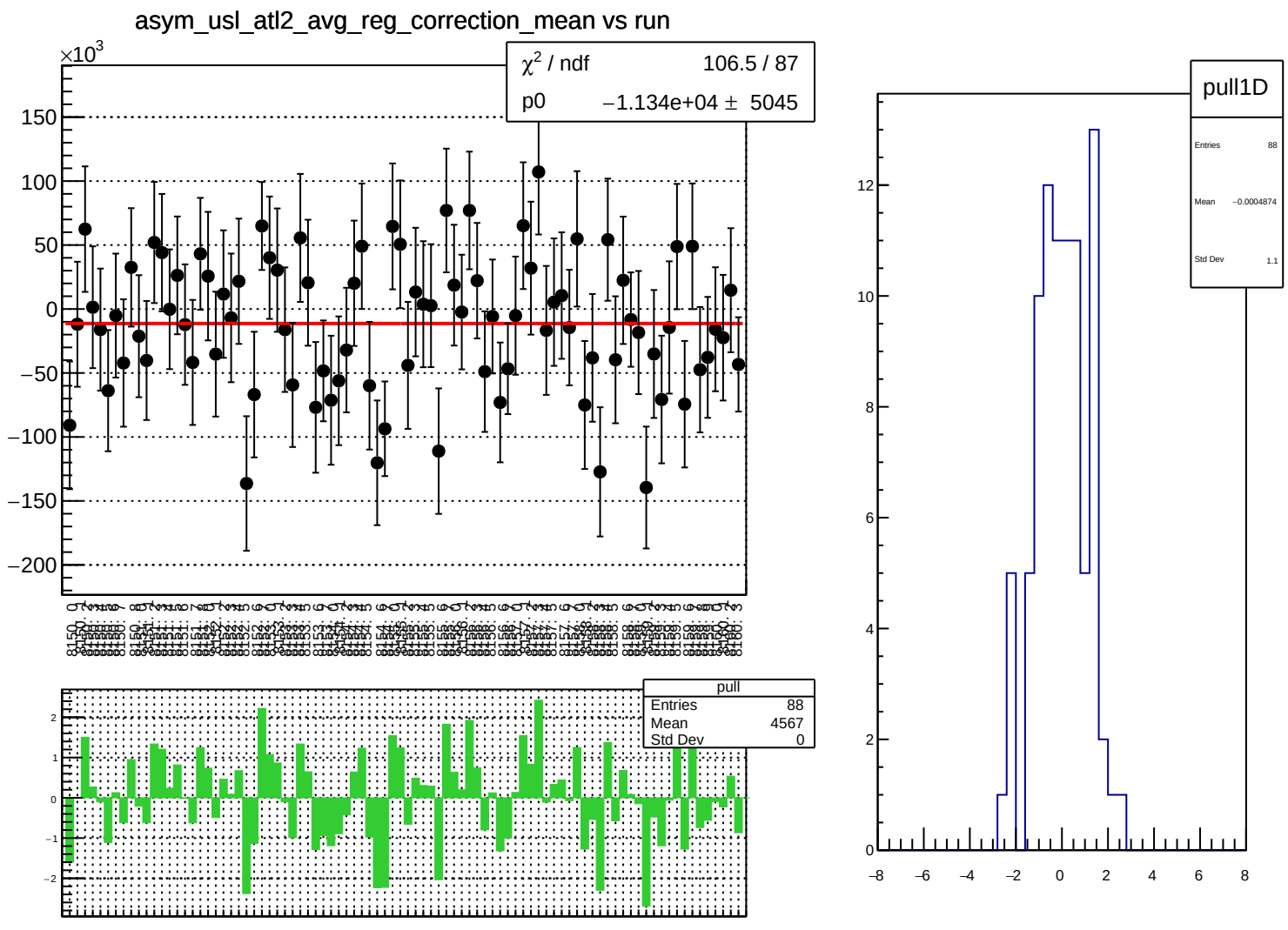

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.77 / 87
p0 −1.402e−14 ± 2.029e−14
pull
Entries 88
Mean 24.73
Std Dev 11.22
pull1D
Entries 88
Mean 0.06207
Std Dev 0.932

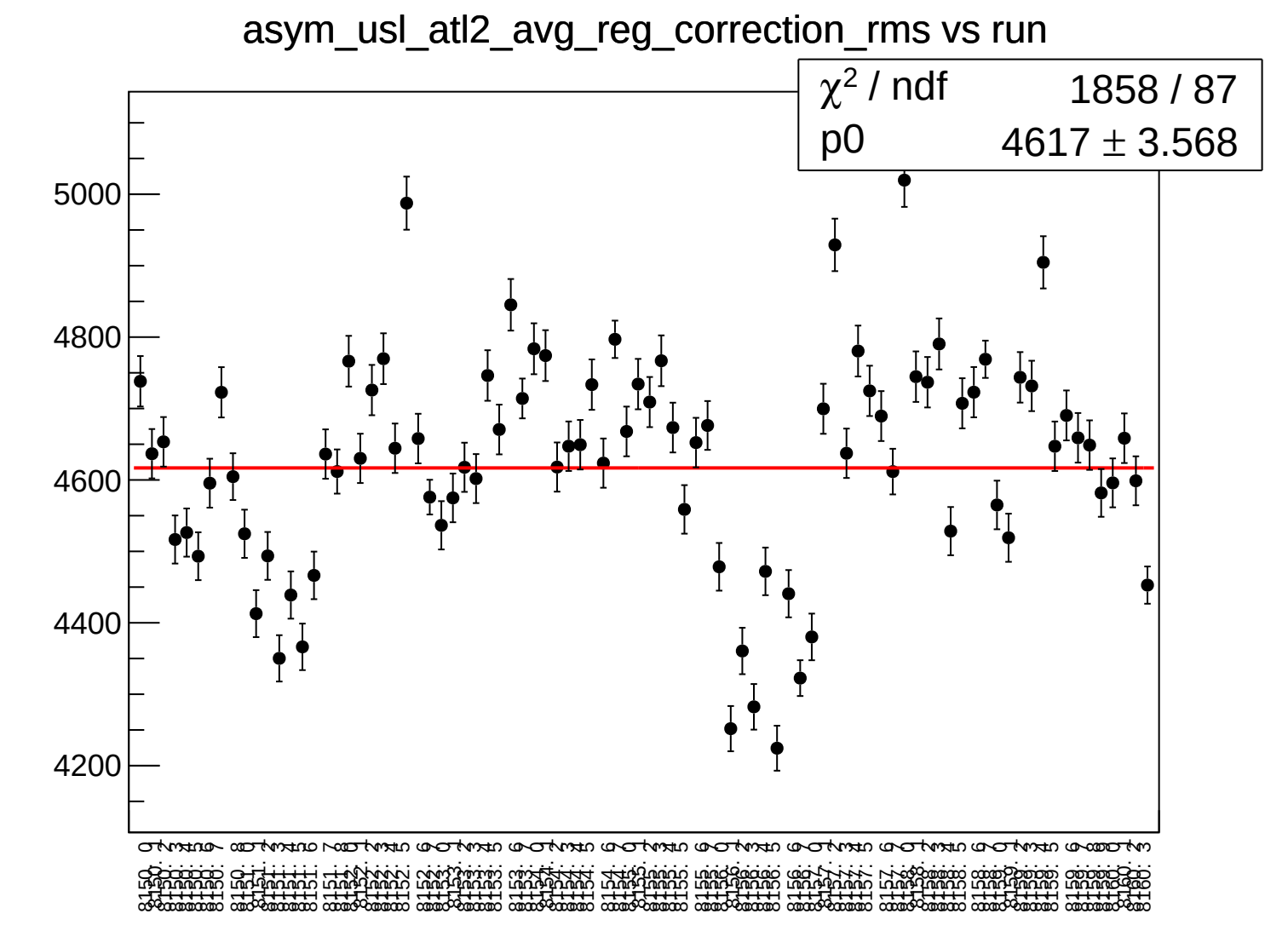

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.146e+05 / 87
p0 1.478e−11 ± 1.434e−14
0.1
0.08
0.06
0.04
0.02

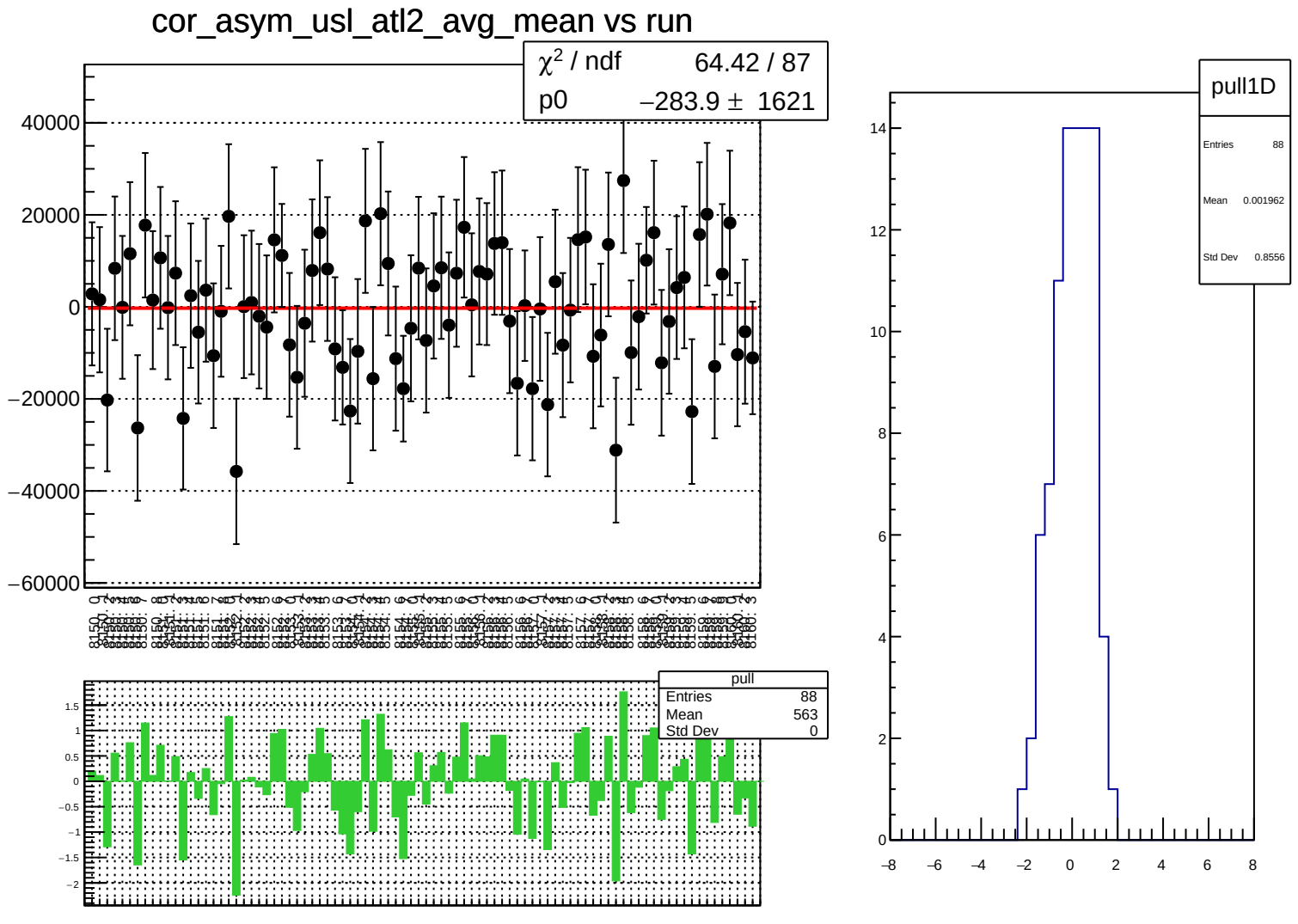

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 64.43 / 87
p0 −283.8 ± 1621
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 563.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

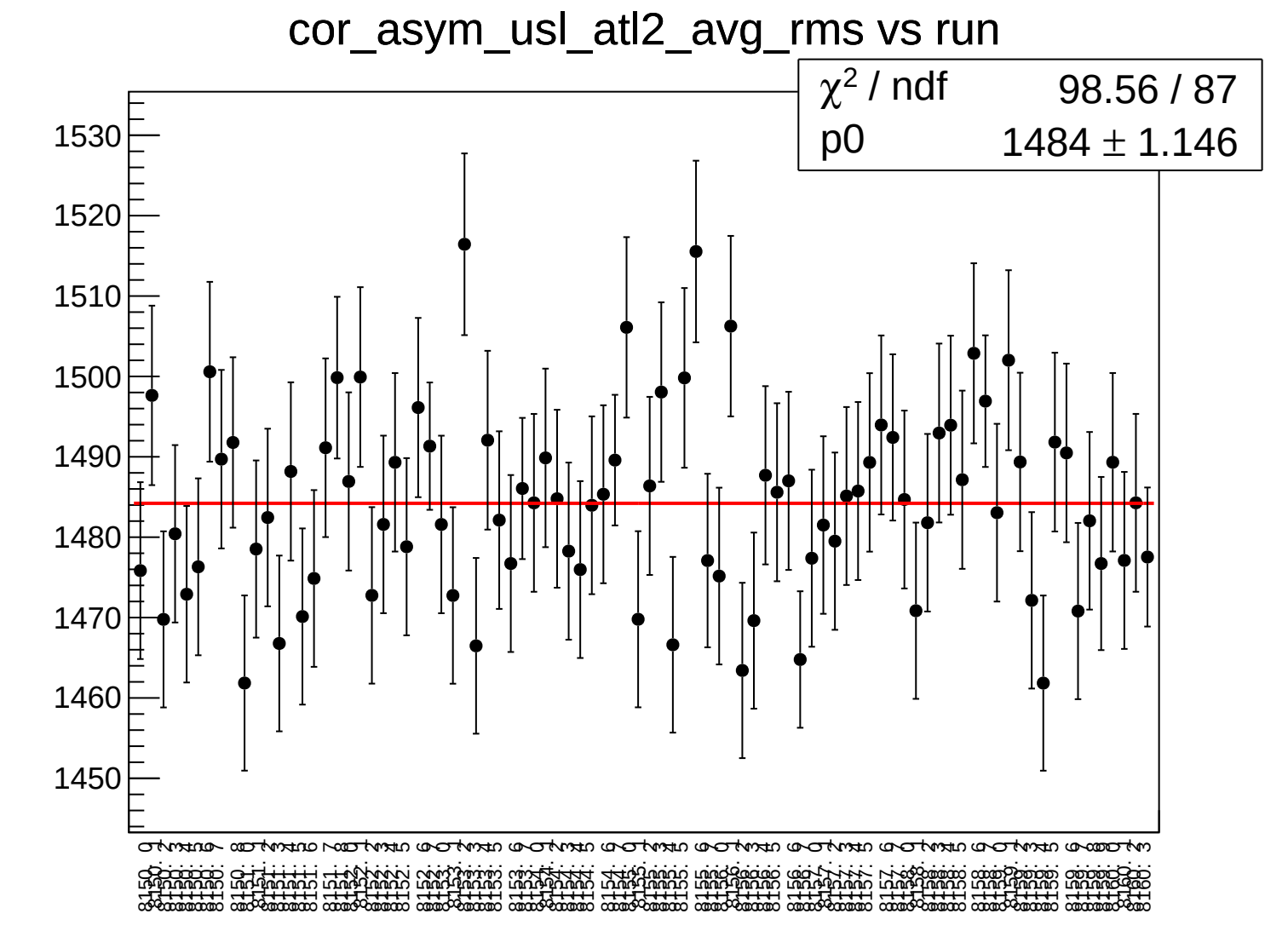

pull1D
Entries 88
Mean 0.001961
Std Dev 0.8556
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

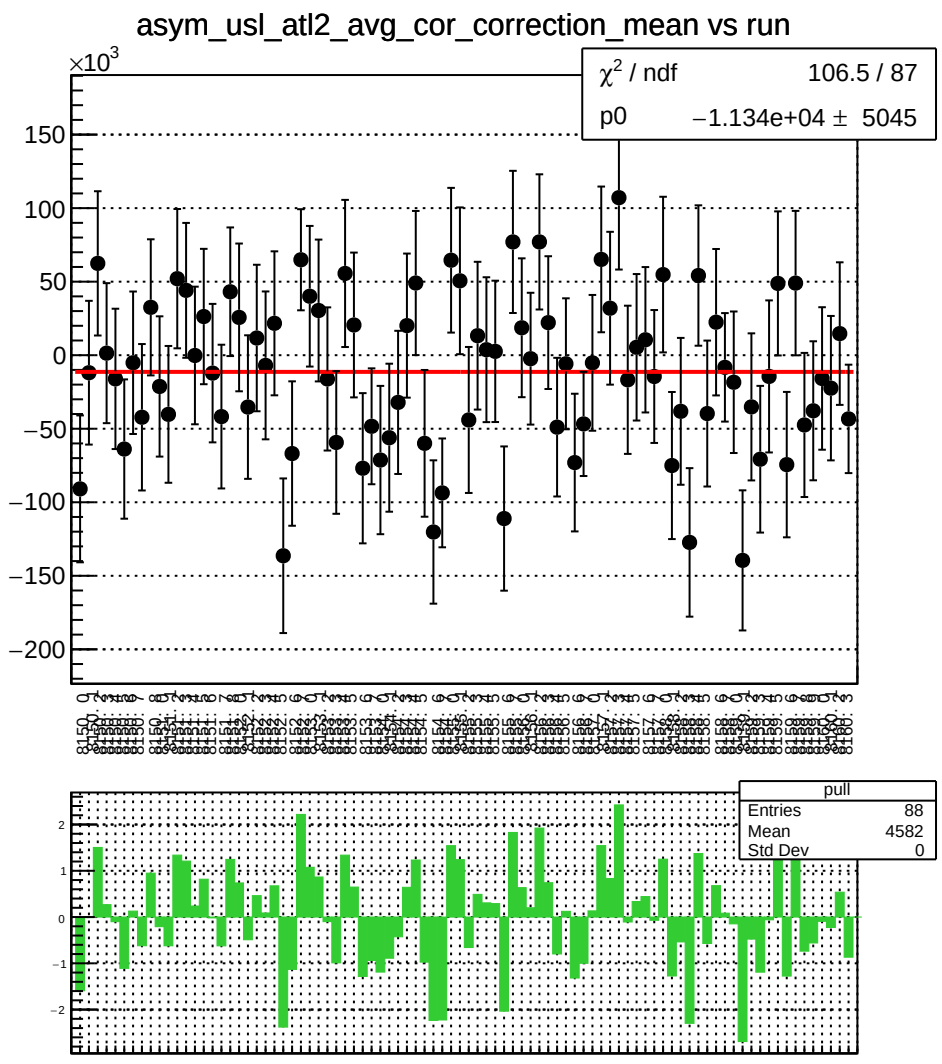

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 98.56 / 87
p0 1484 ± 1.146
1530
1520
1510
1500
1490
1480
1470
1460
1450

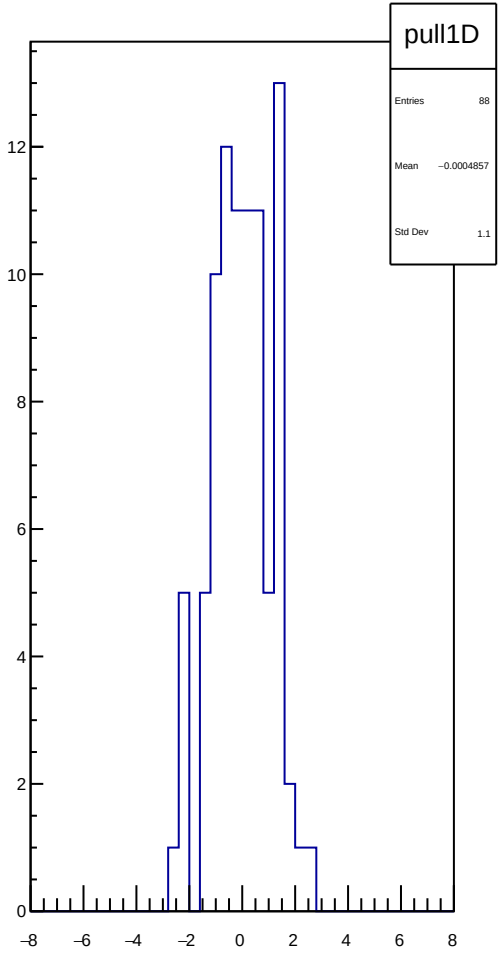

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 106.5 / 87
p0 −1.134e+04 ± 5045
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 4567
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0004874
Std Dev 1.1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

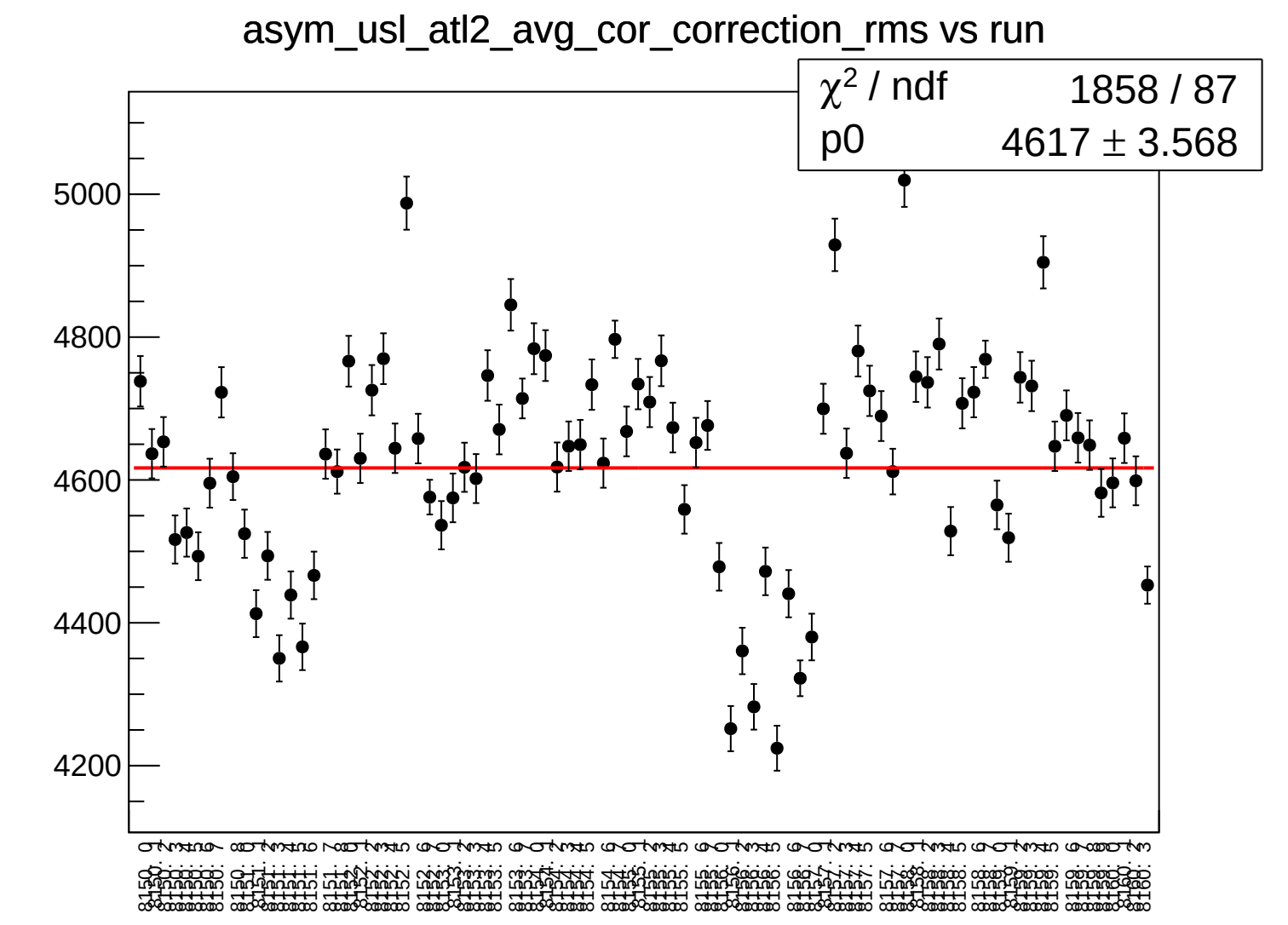

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1858 / 87
p0 4617 ± 3.568
5000
4800
4600
4400
4200

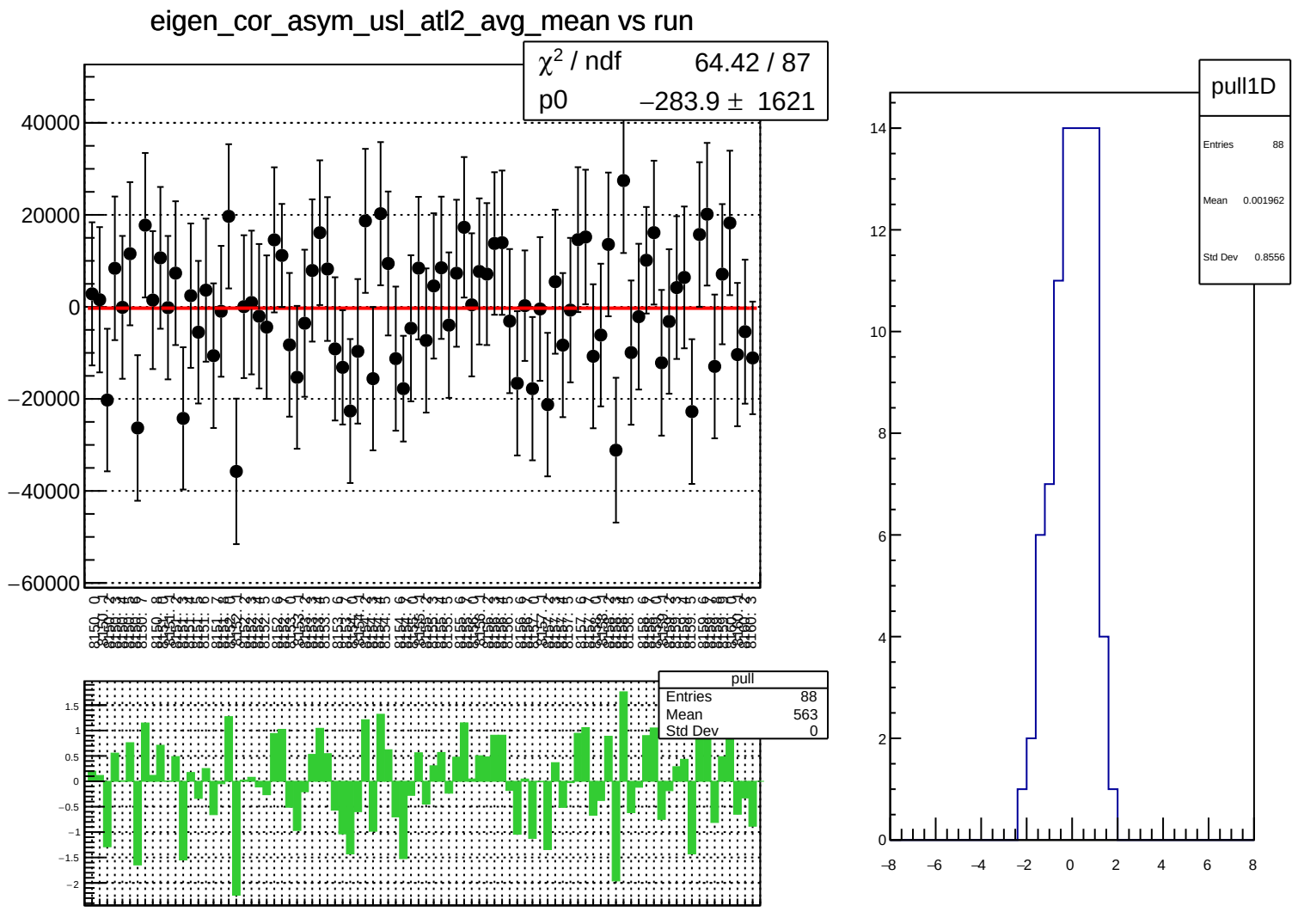

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 64.42 / 87
p0 −283.9 ± 1621
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 563
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.001962
Std Dev 0.8556
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

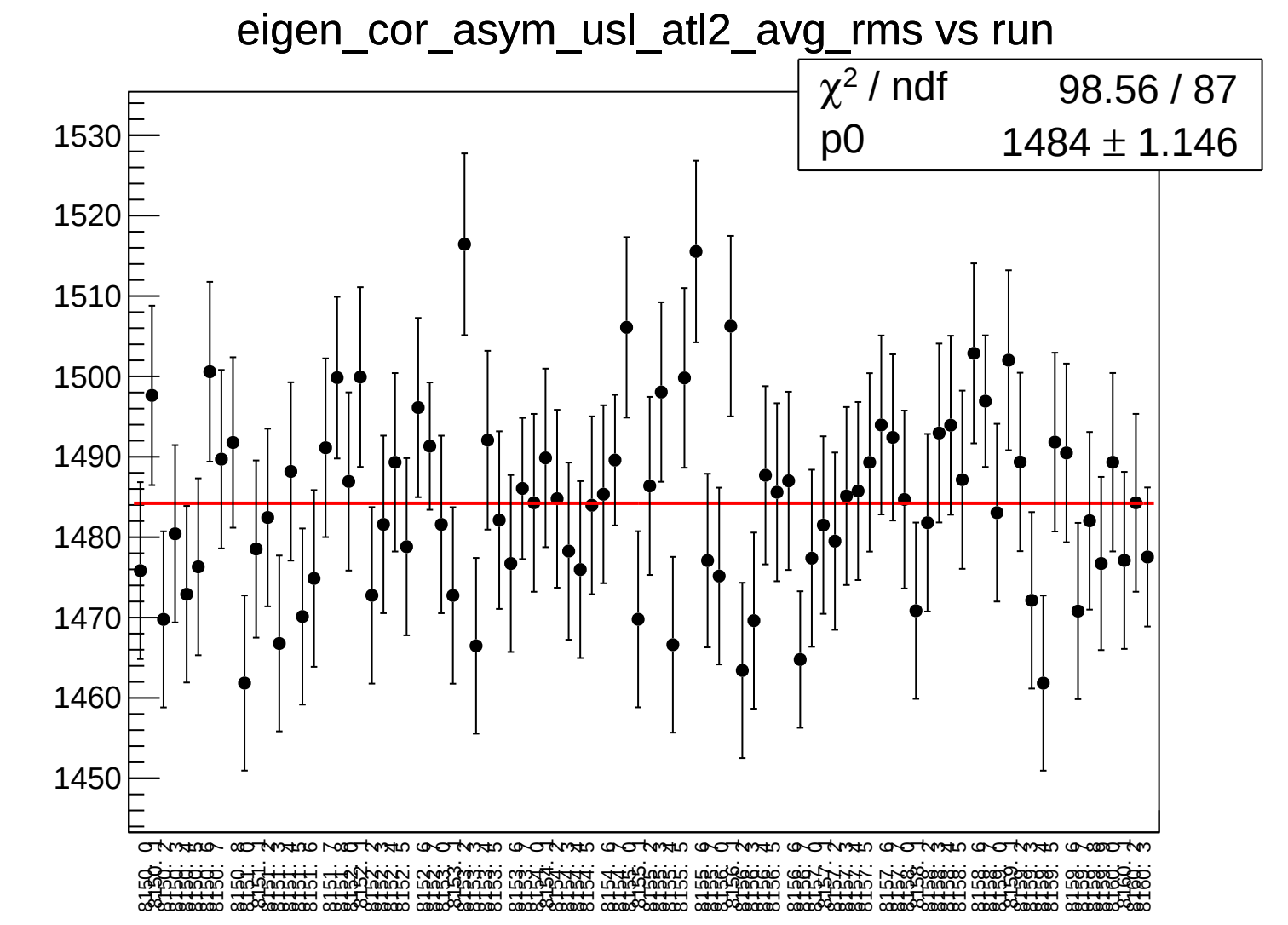

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 98.56 / 87
p0 1484 ± 1.146
1530
1520
1510
1500
1490
1480
1470
1460
1450

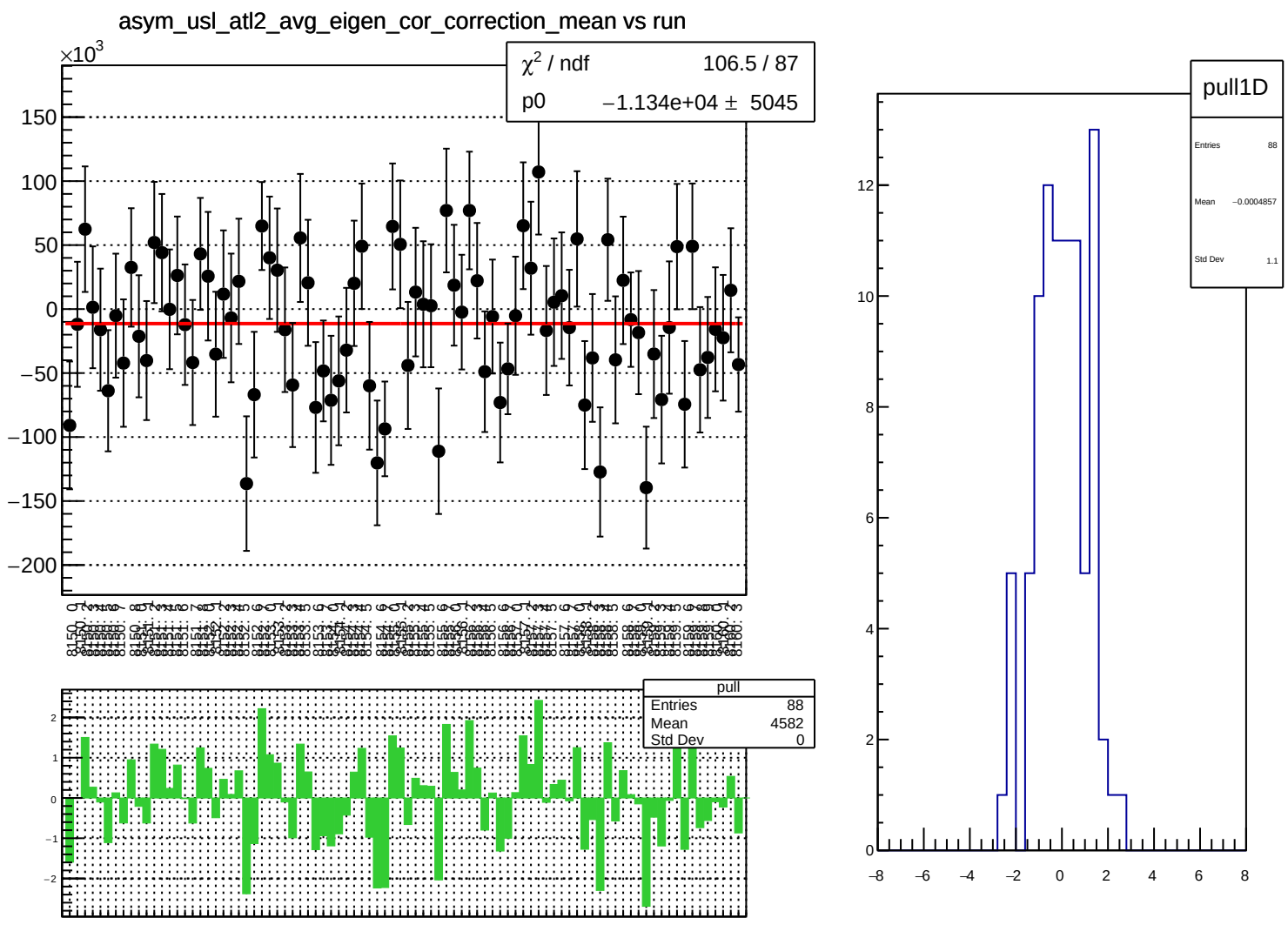

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 106.5 / 87
p0 −1.134e+04 ± 5045
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 4582
Std Dev 0
2
1
0
−1
−2

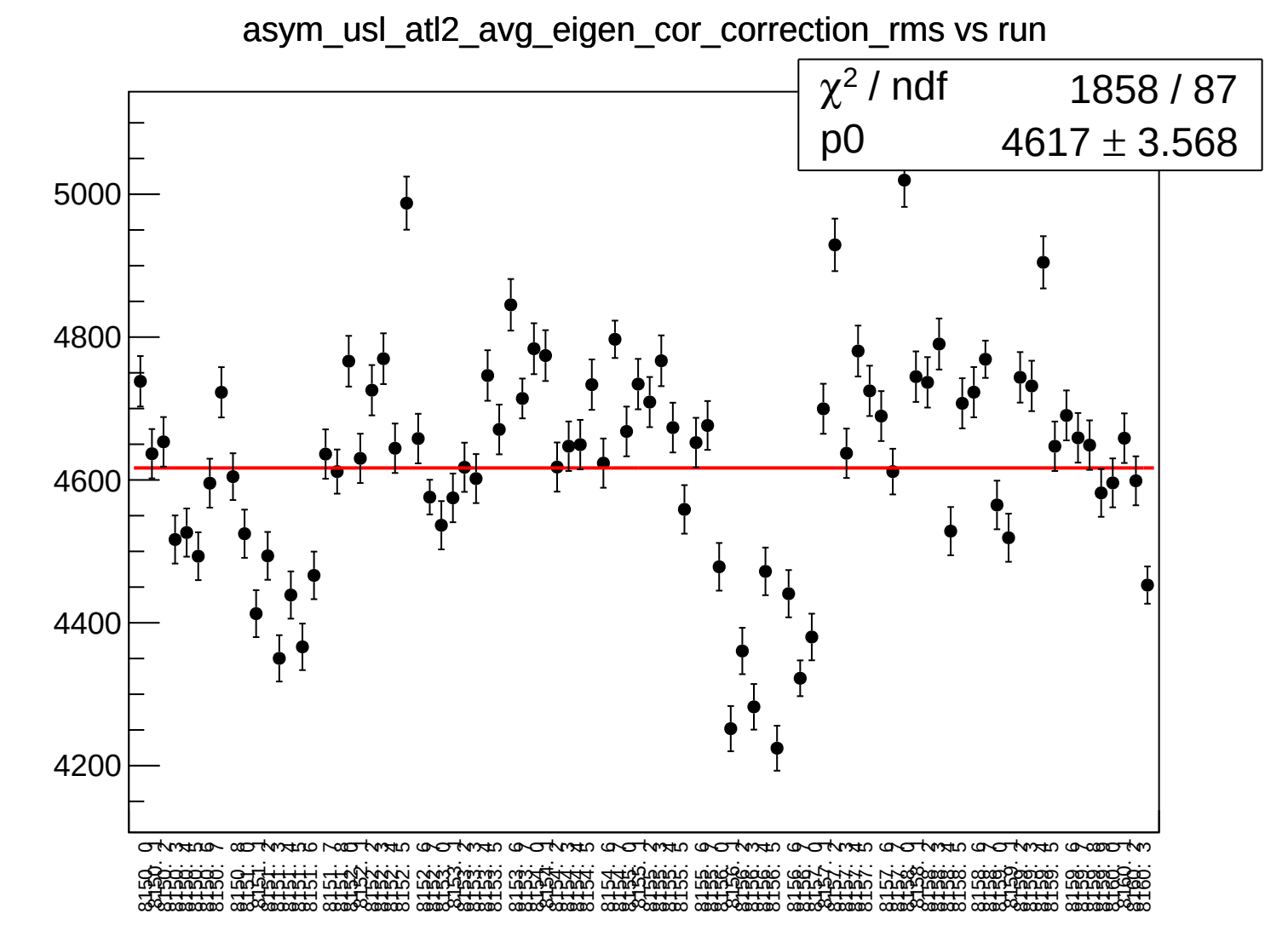

pull1D
Entries 88
Mean −0.0004857
Std Dev 1.1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

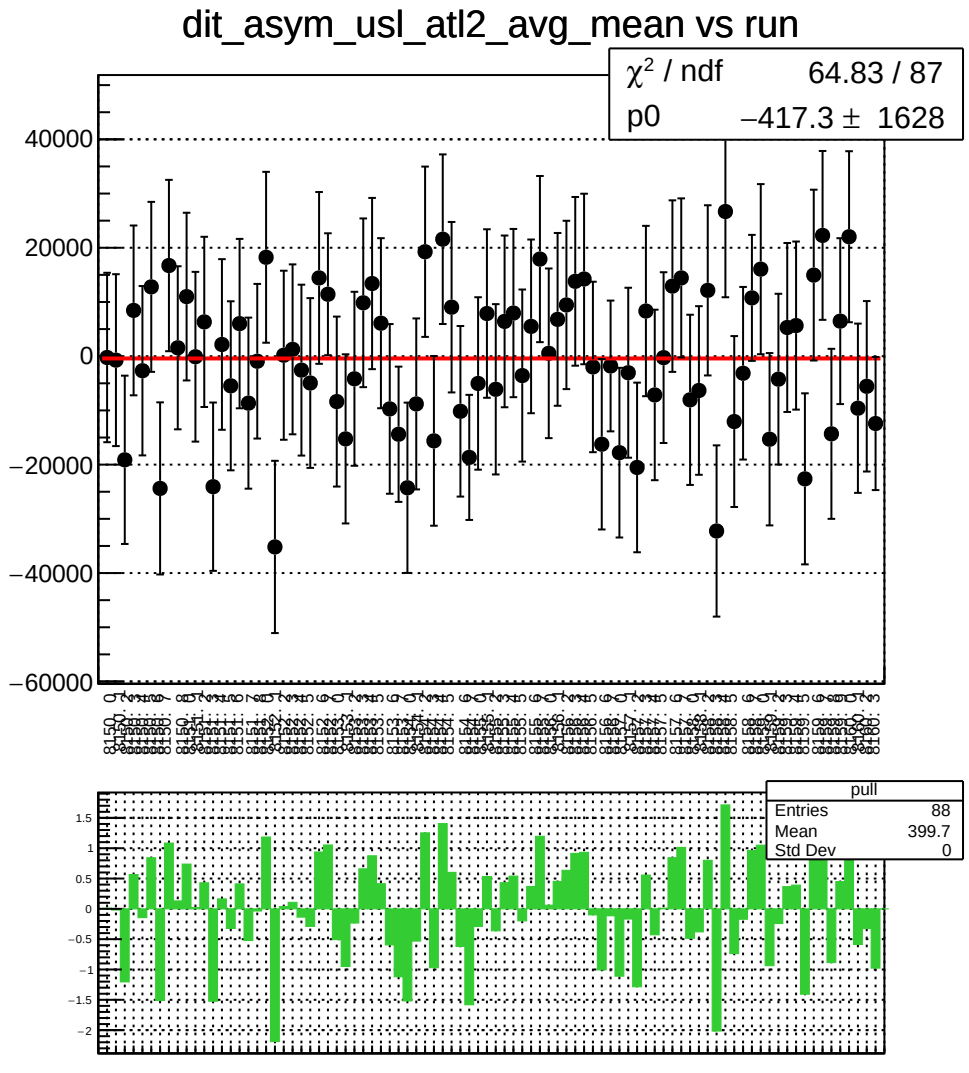

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1858 / 87
p0 4617 ± 3.568
5000
4800
4600
4400
4200

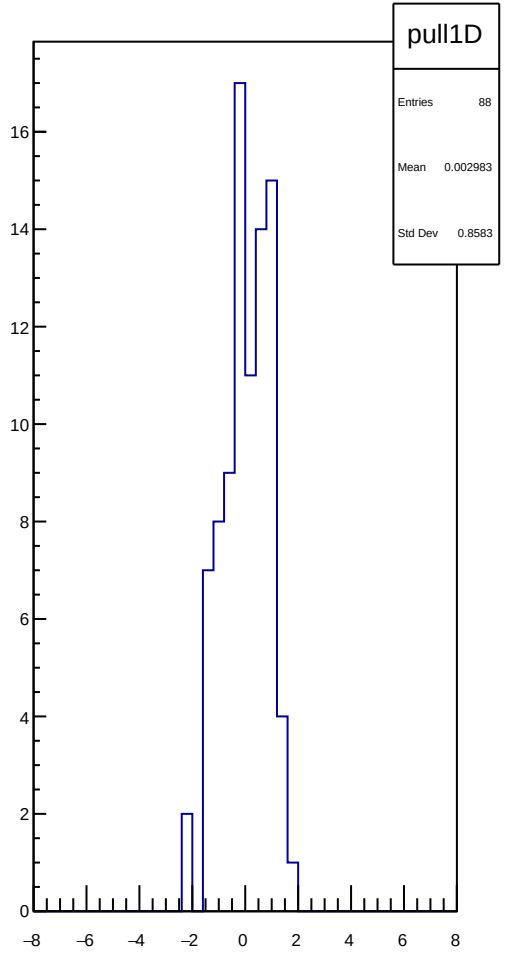

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 64.42 / 87
p0 −283.9 ± 1621
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 563
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.001962
Std Dev 0.8556
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

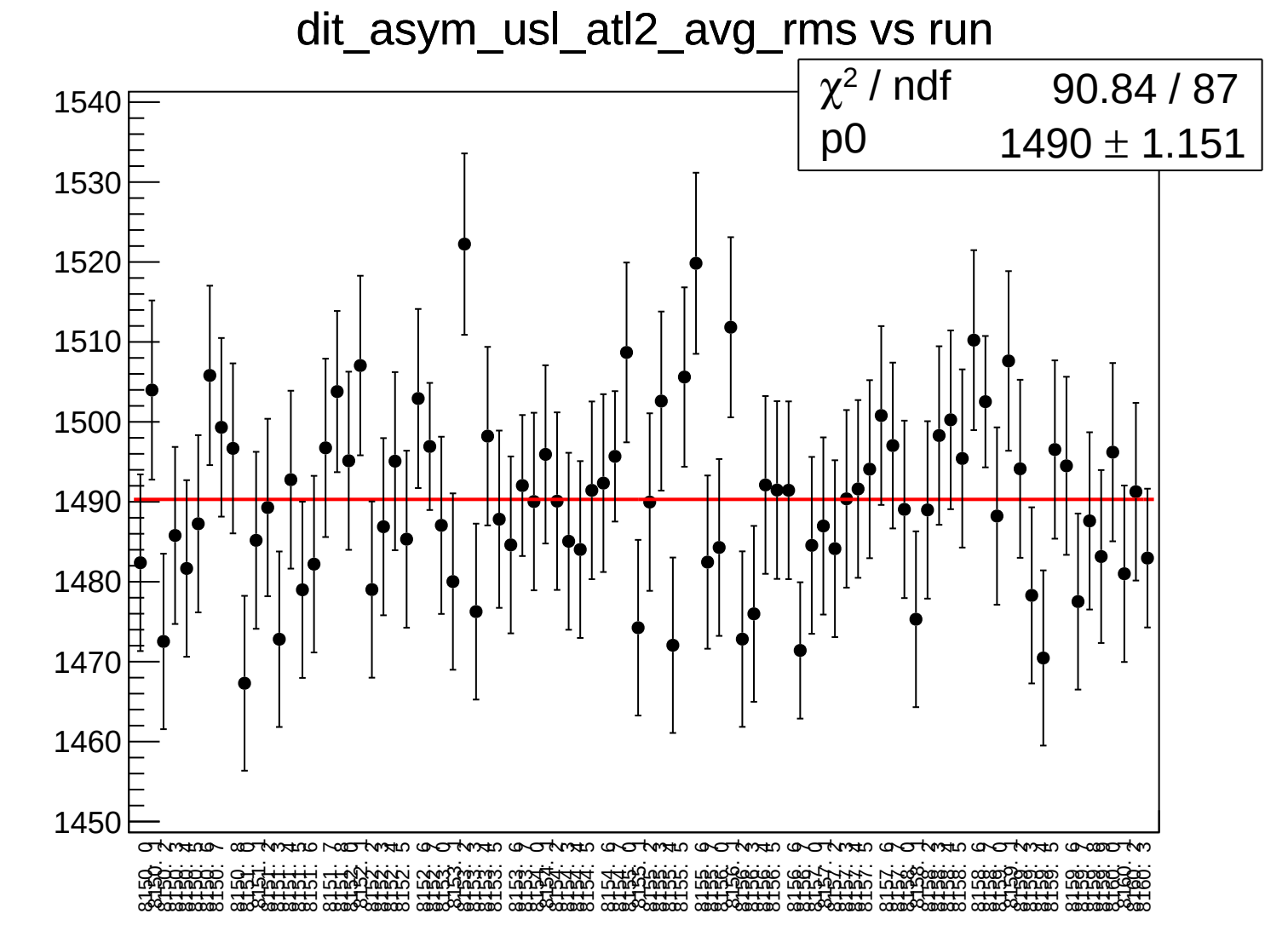

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 98.56 / 87
p0 1484 ± 1.146
1530
1520
1510
1500
1490
1480
1470
1460
1450

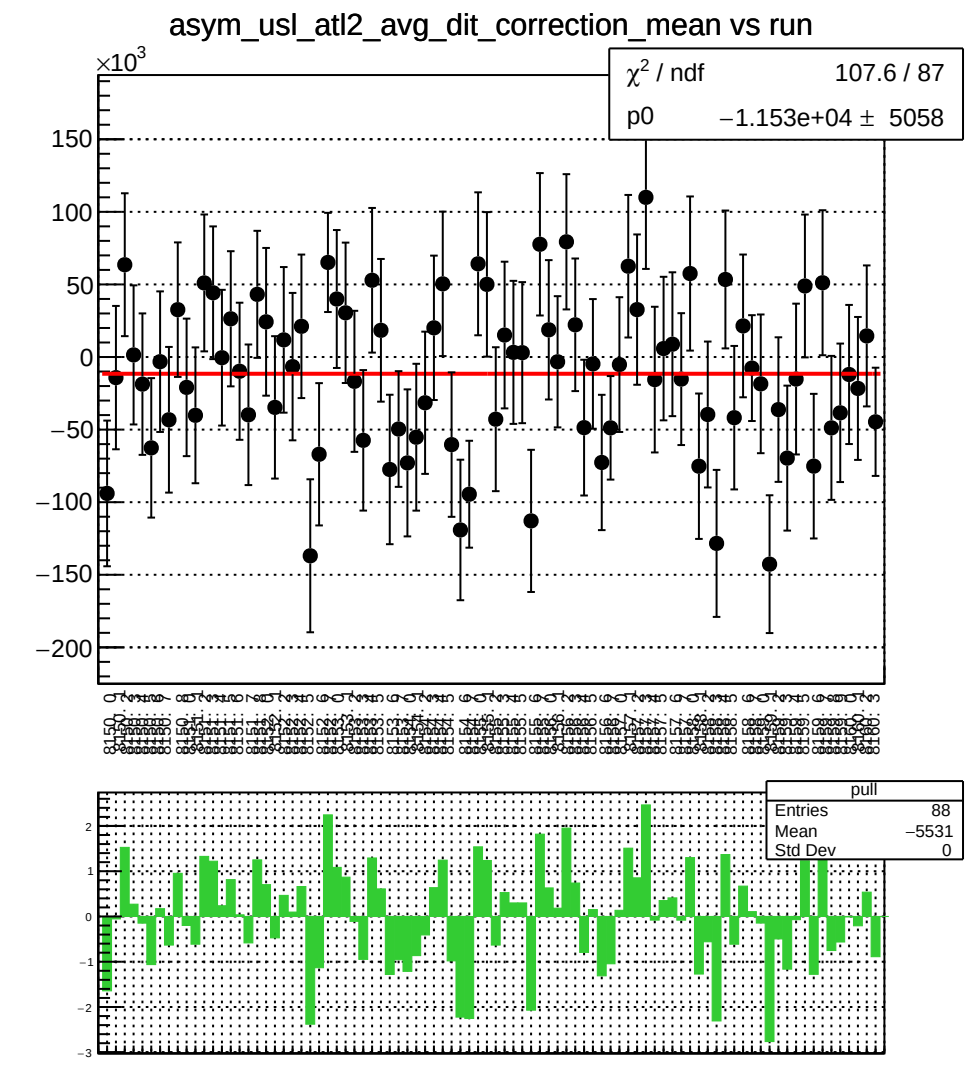

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.5 / 87
p0 −1.134e+04 ± 5045
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 4582
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0004857
Std Dev 1.1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

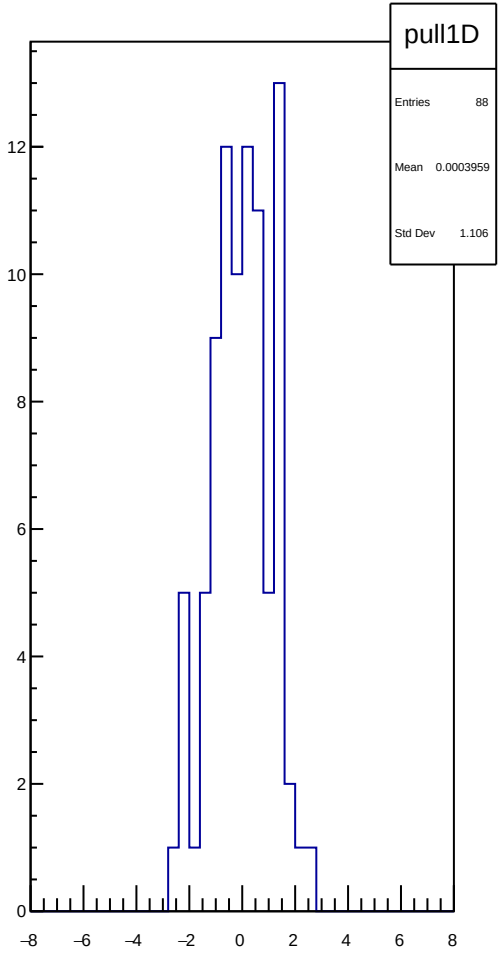

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1858 / 87
p0 4617 ± 3.568
5000
4800
4600
4400
4200

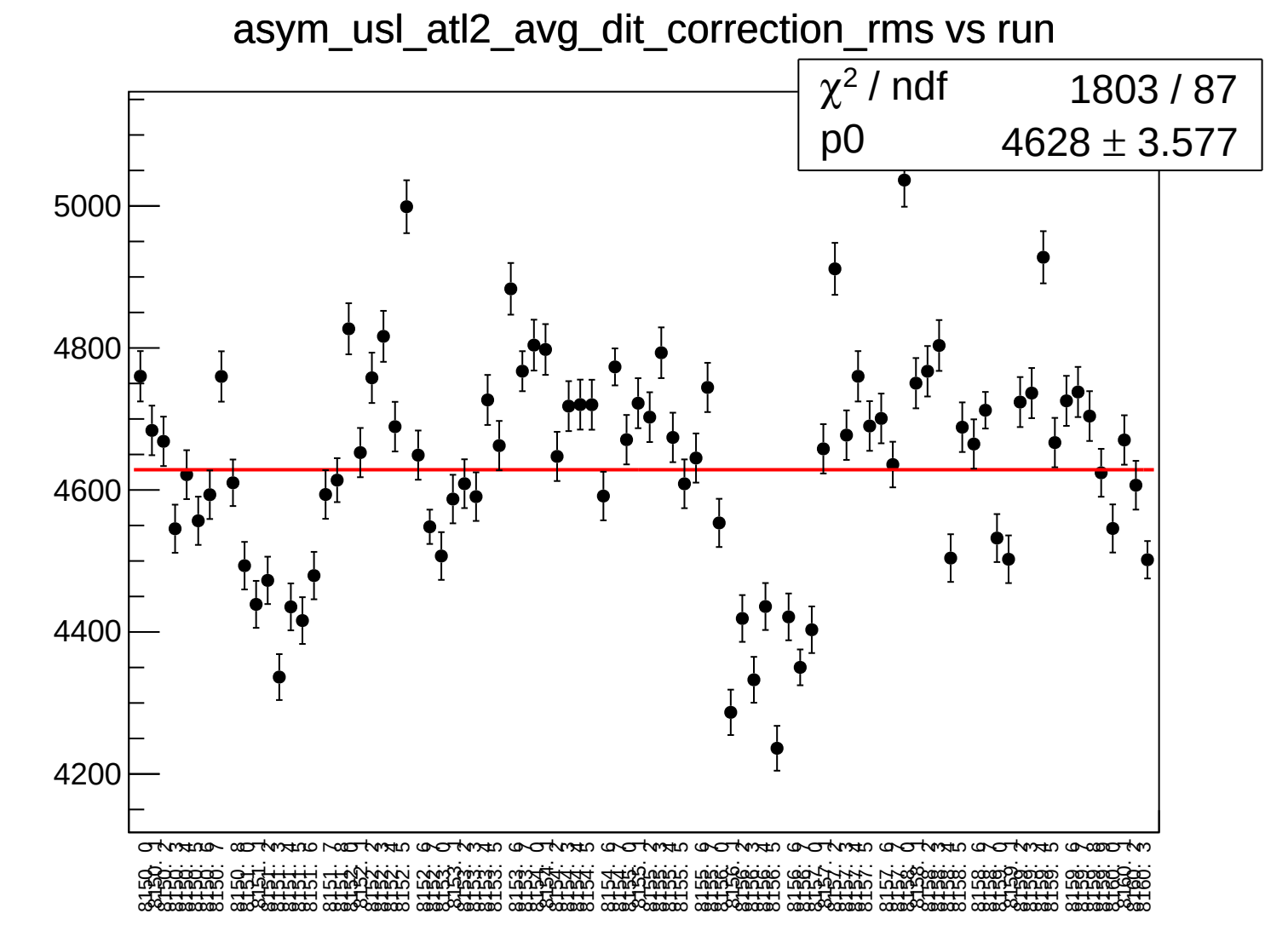

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 64.83 / 87
p0 −417.3 ± 1628
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 399.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

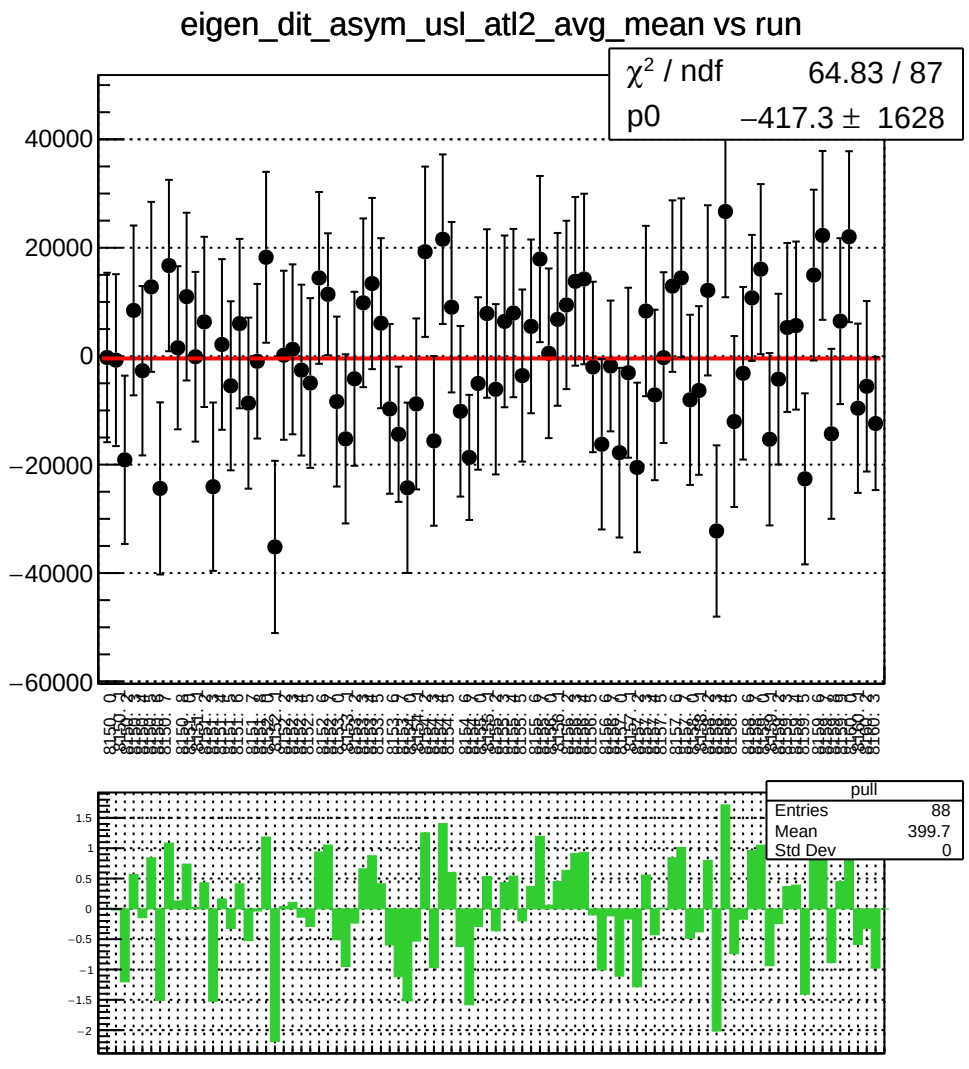

pull1D
Entries 88
Mean 0.002983
Std Dev 0.8583
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

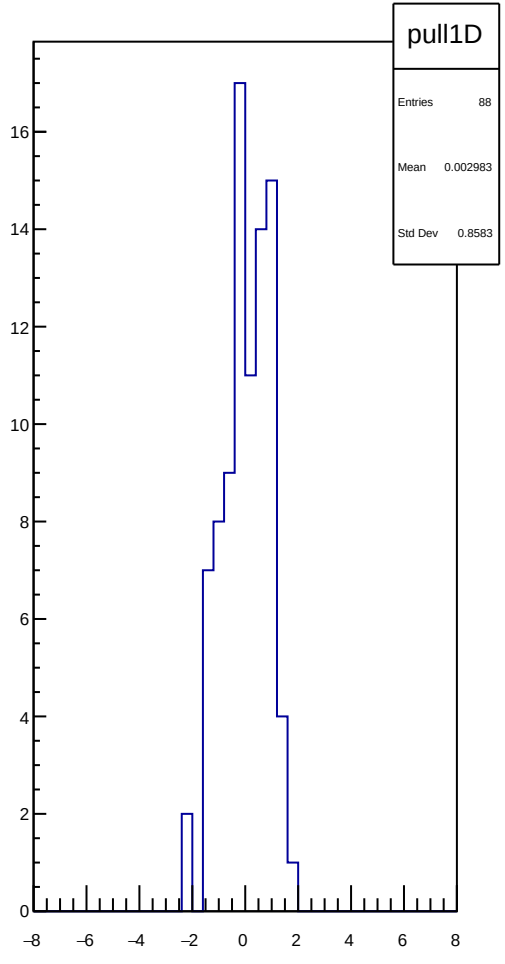

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 90.84 / 87
p0 1490 ± 1.151
1540
1530
1520
1510
1500
1490
1480
1470
1460
1450

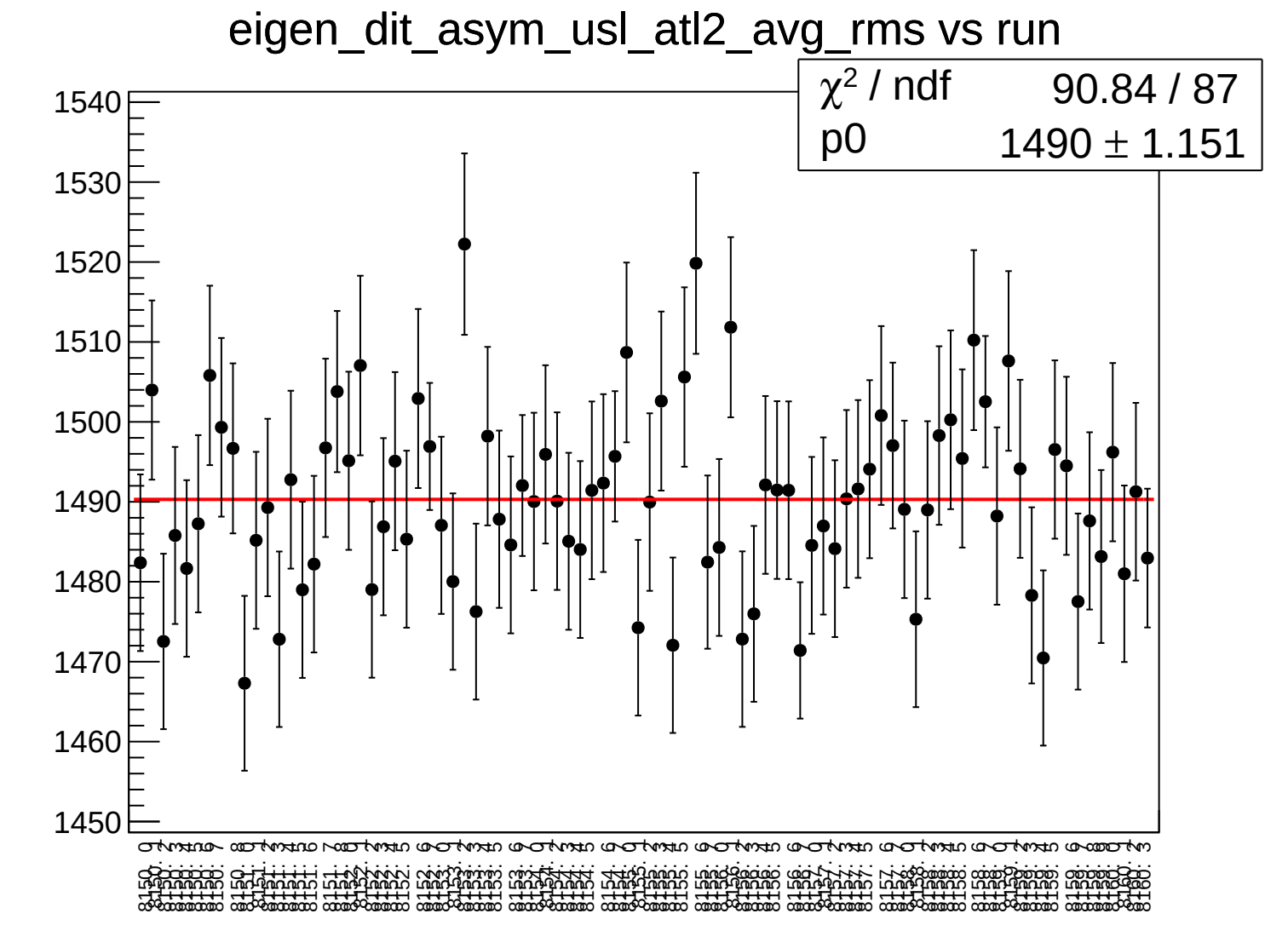

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107.6 / 87
p0 −1.153e+04 ± 5058
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −5531
Std Dev 0
2
1
0
−1
−2
−3

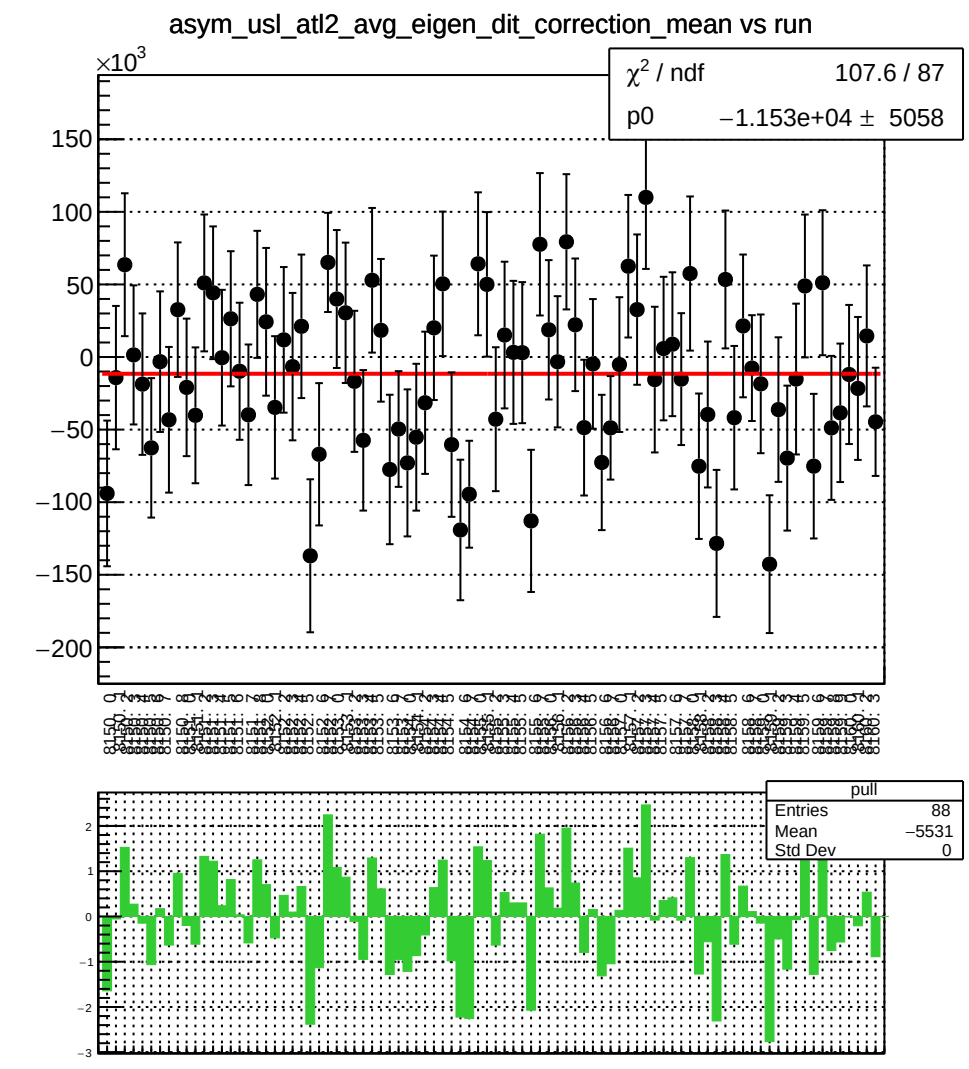

pull1D
Entries 88
Mean 0.0003959
Std Dev 1.106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

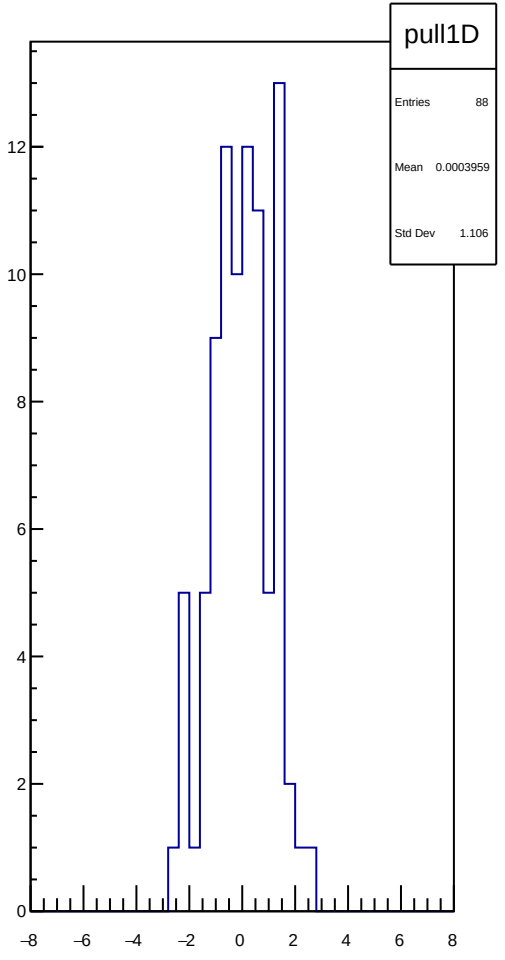

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1803 / 87
p0 4628 ± 3.577
5000
4800
4600
4400
4200

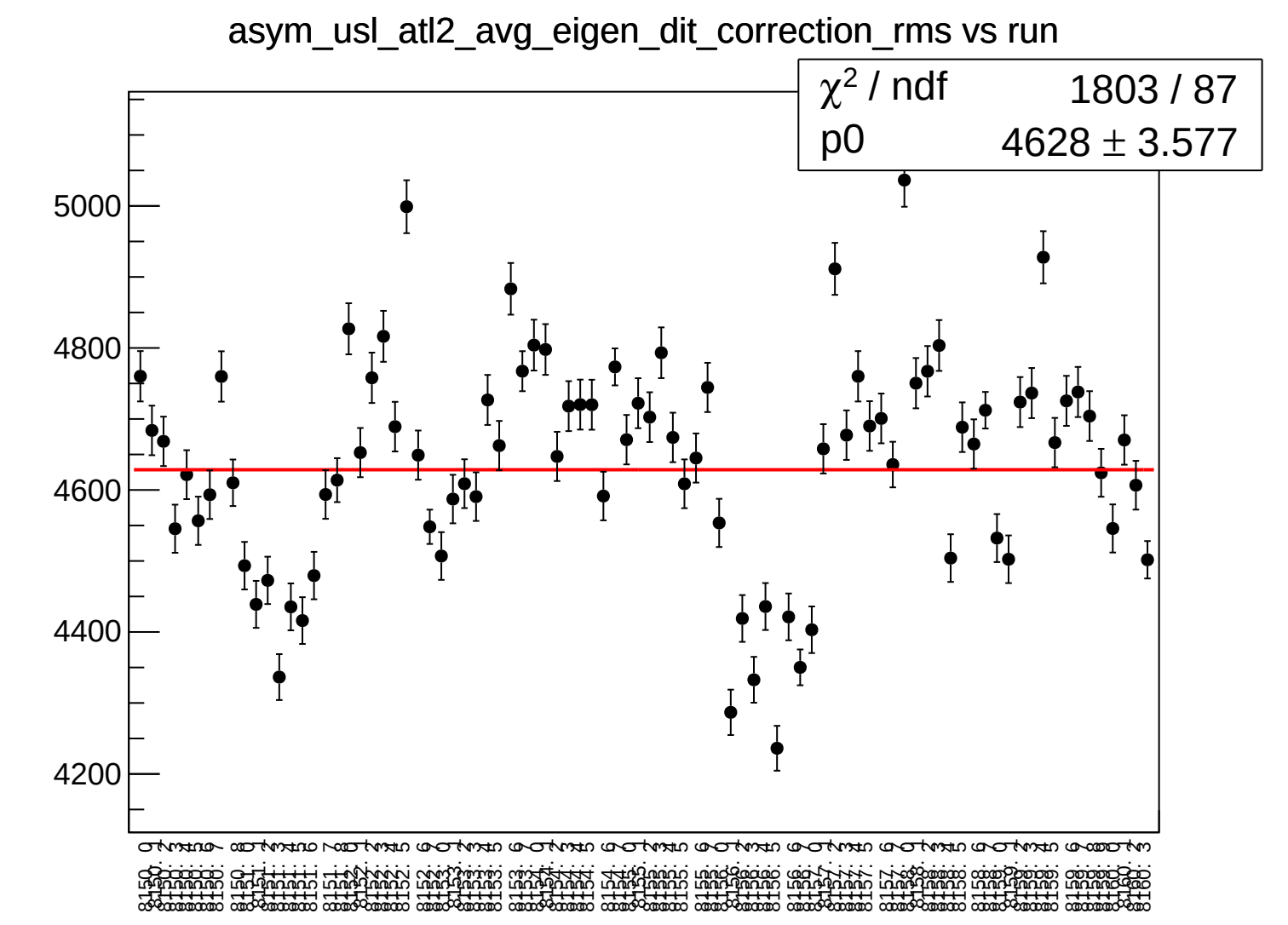

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 64.83 / 87
p0 −417.3 ± 1628
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 399.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

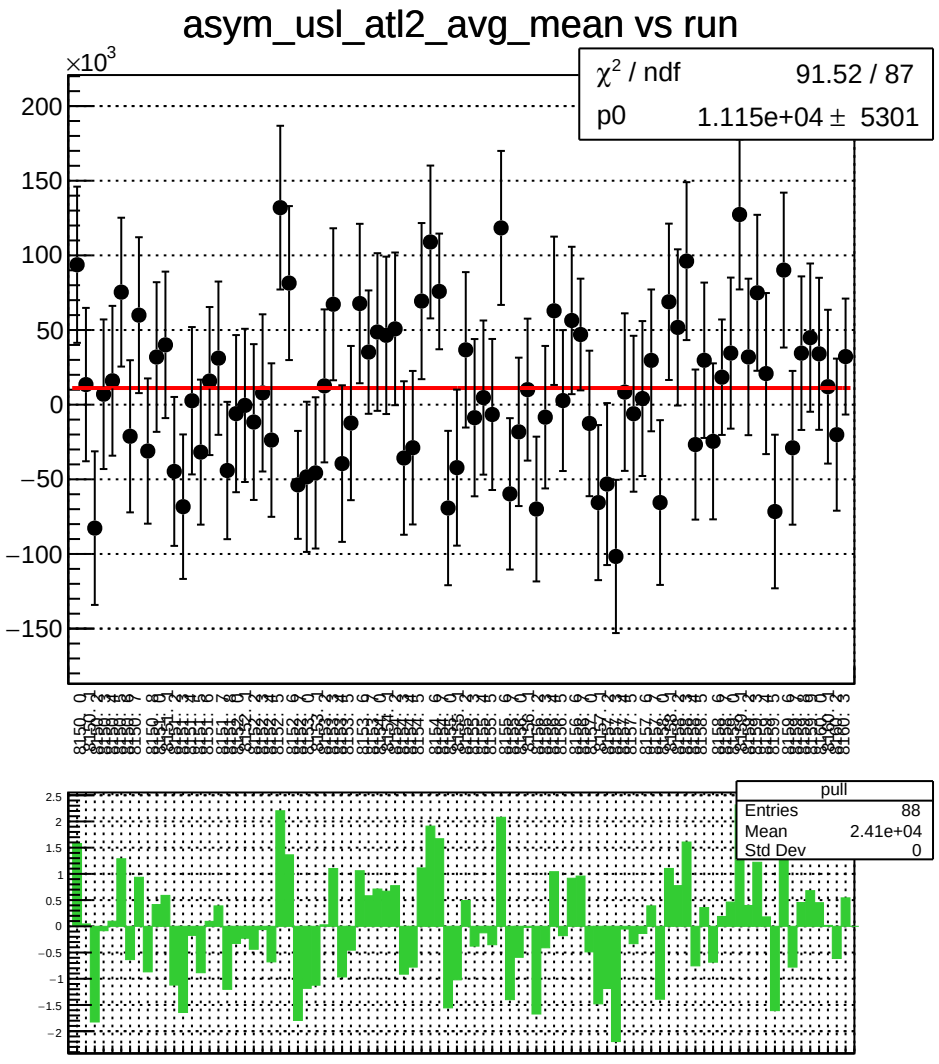

pull1D
Entries 88
Mean 0.002983
Std Dev 0.8583
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

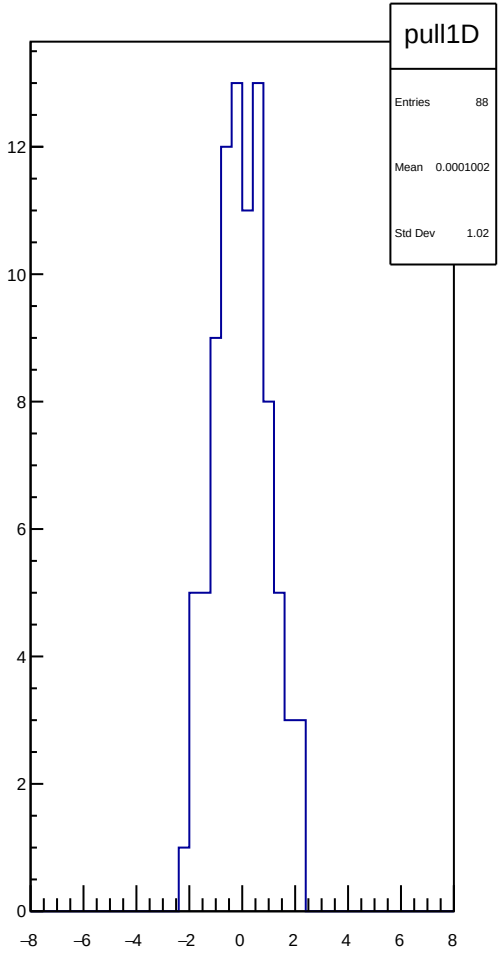

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 90.84 / 87
p0 1490 ± 1.151
1540
1530
1520
1510
1500
1490
1480
1470
1460
1450

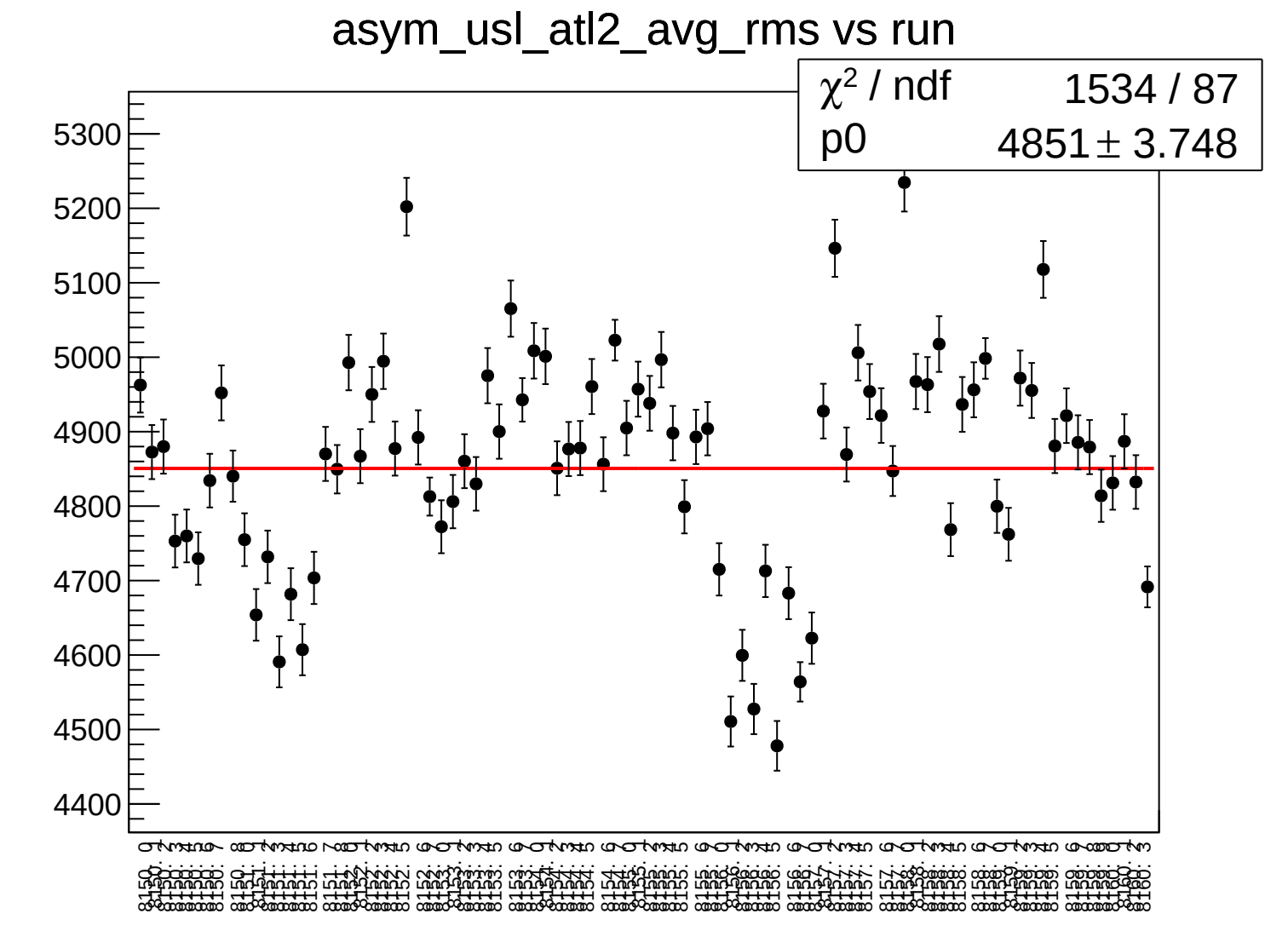

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.6 / 87
p0 −1.153e+04 ± 5058
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −5531
Std Dev 0
2
1
0
−1
−2
−3

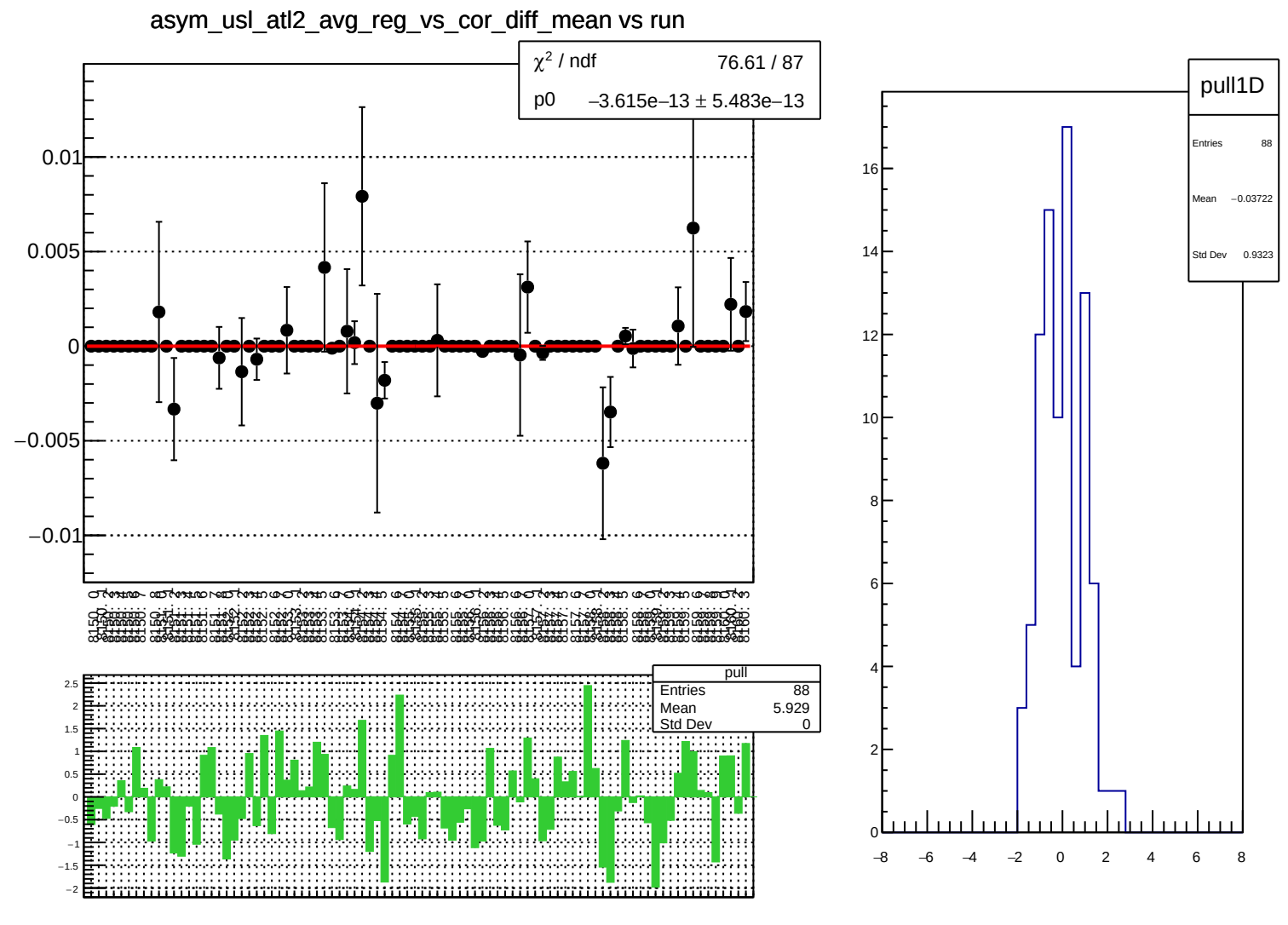

pull1D
Entries 88
Mean 0.0003959
Std Dev 1.106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

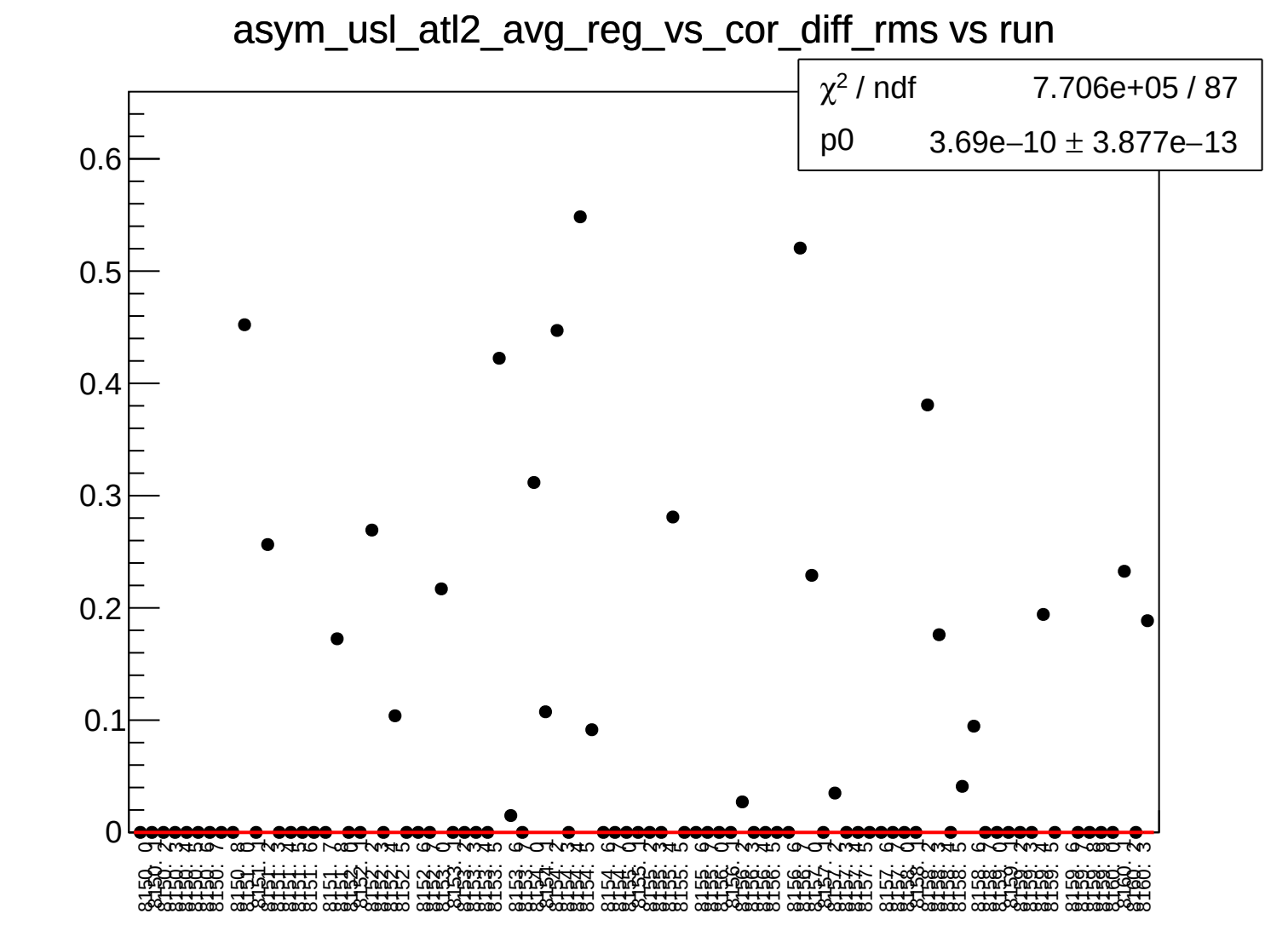

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1803 / 87
p0 4628 ± 3.577
5000
4800
4600
4400
4200

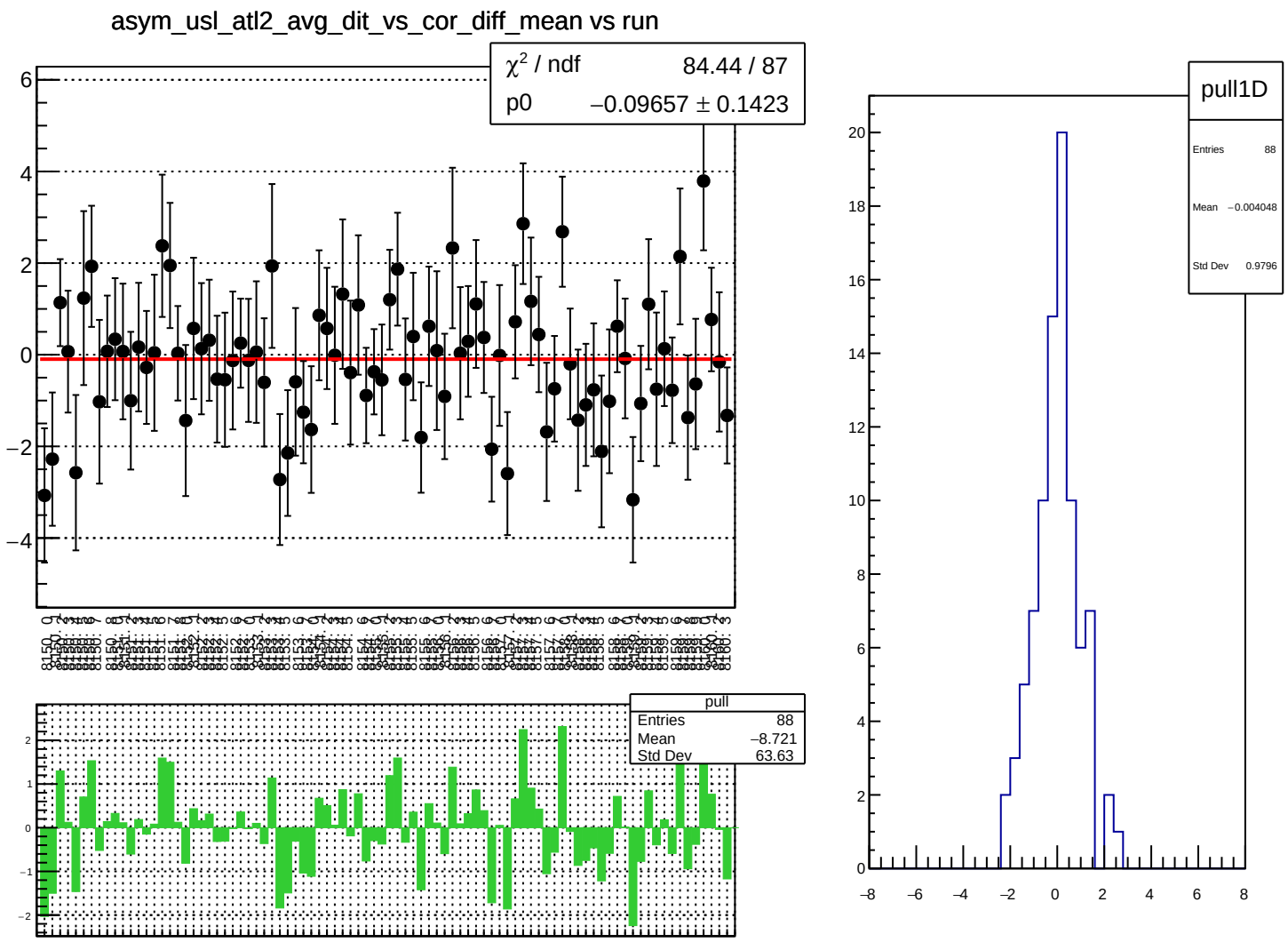

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 91.52 / 87
p0 1.115e+04 ± 5301
pull
Entries 88
Mean 2.41e+04
Std Dev 0

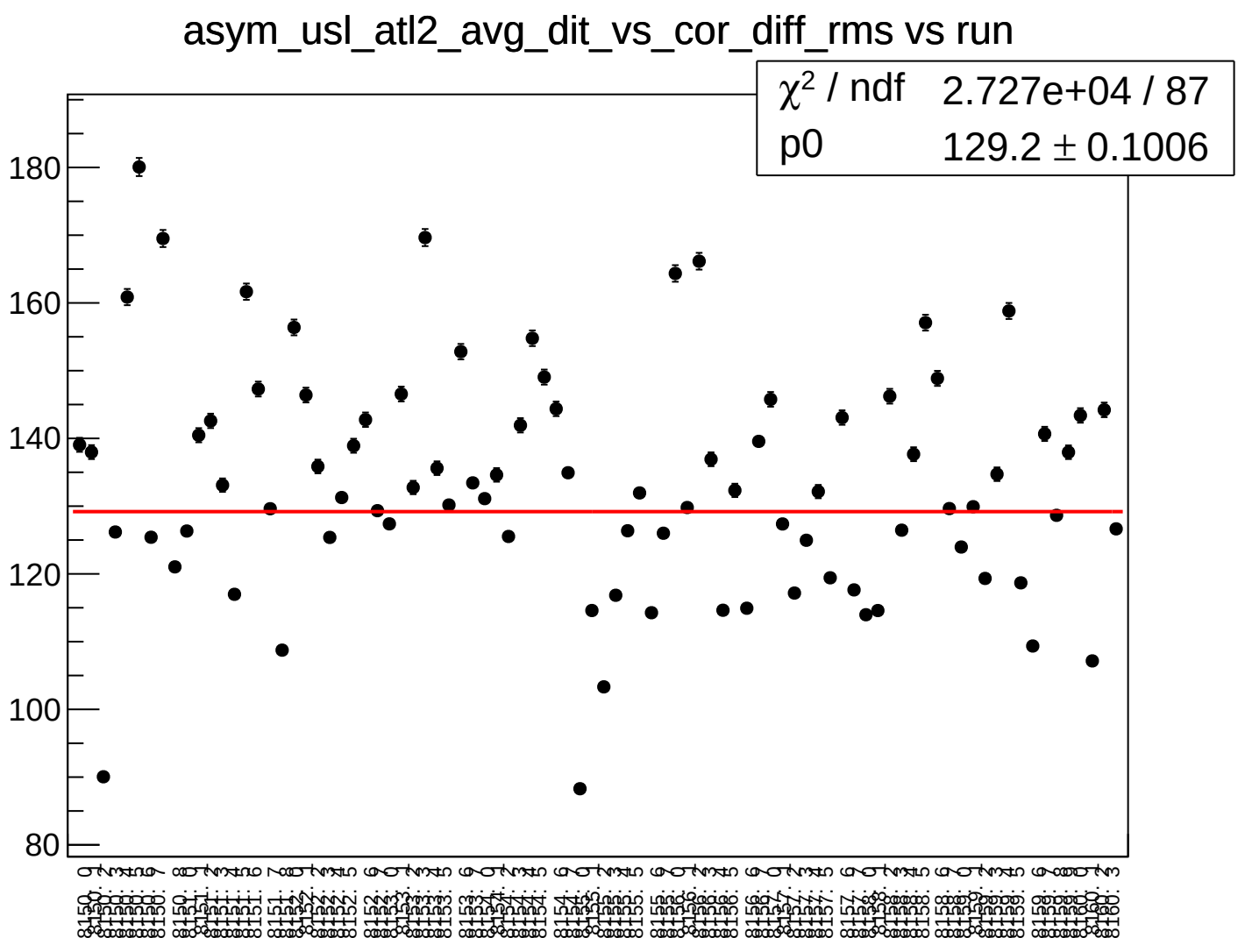

pull1D
Entries 88
Mean 0.0001002
Std Dev 1.02

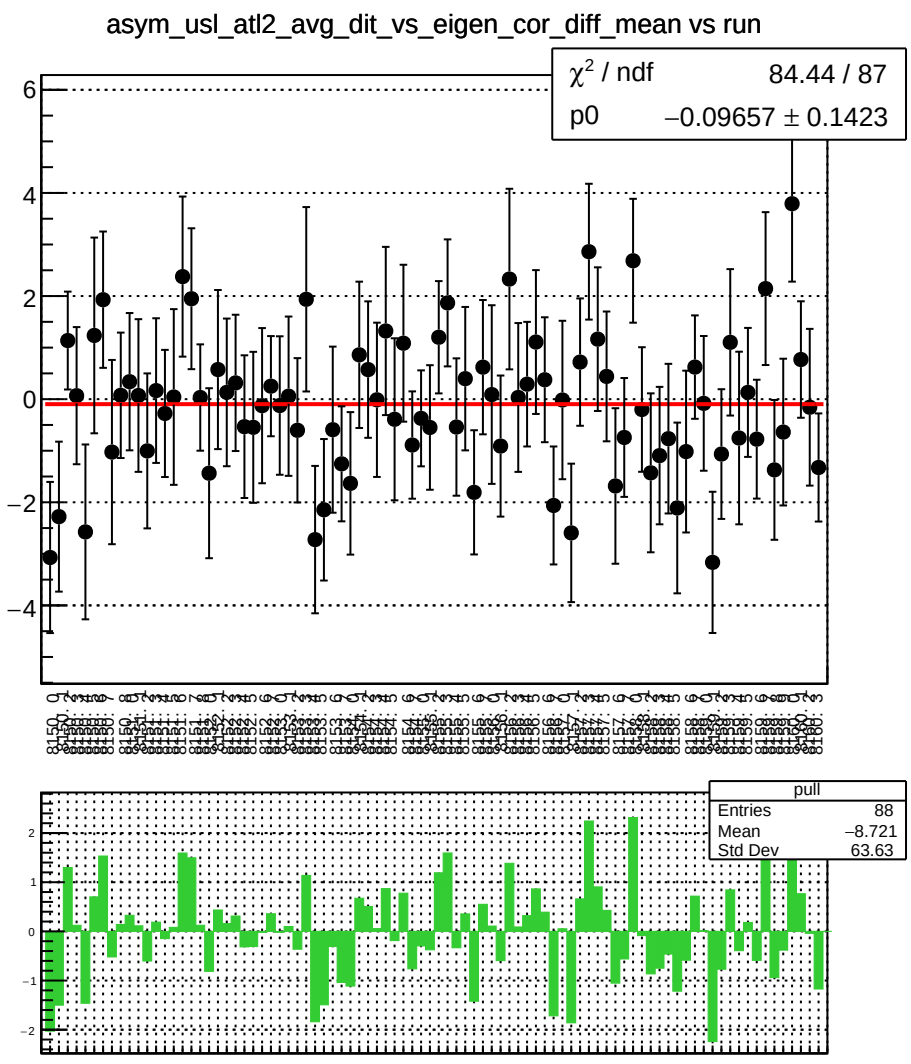

asym_usl_atl2_avg_rms vs run
χ² / ndf 1534 / 87
p0 4851 ± 3.748
5300
5200
5100
5000
4900
4800
4700
4600
4500
4400

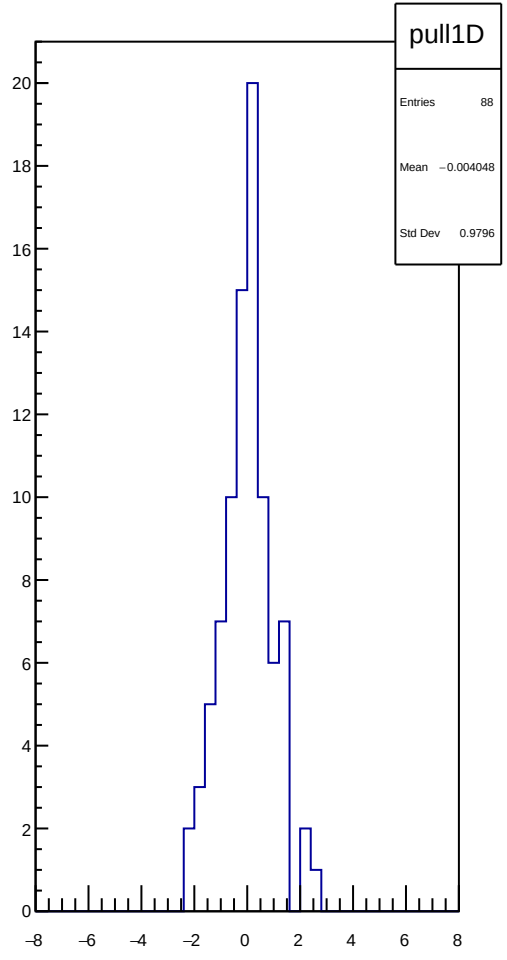

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.61 / 87
p0 −3.615e−13 ± 5.483e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 5.929
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.03722
Std Dev 0.9323
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

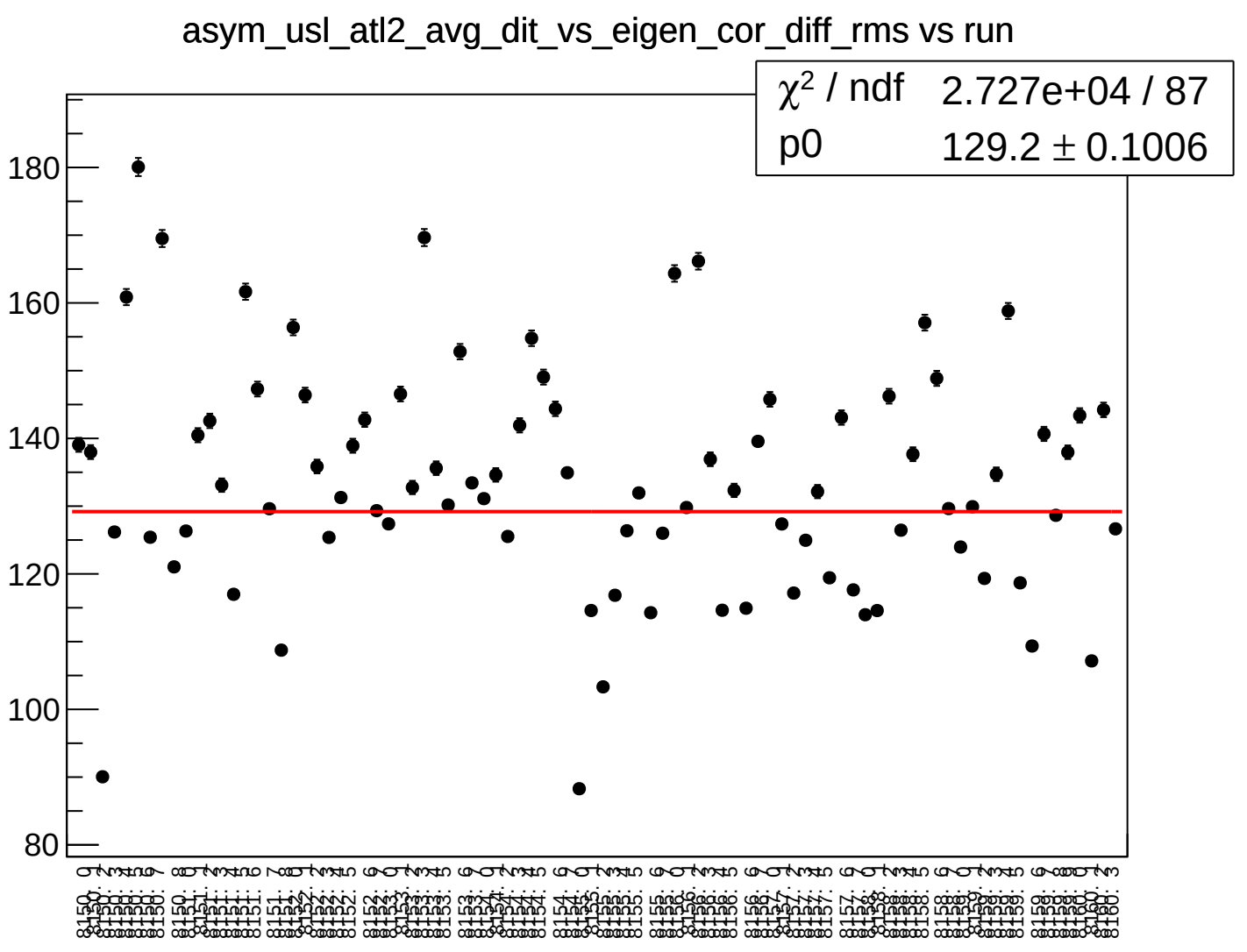

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.706e+05 / 87
p0 3.69e−10 ± 3.877e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

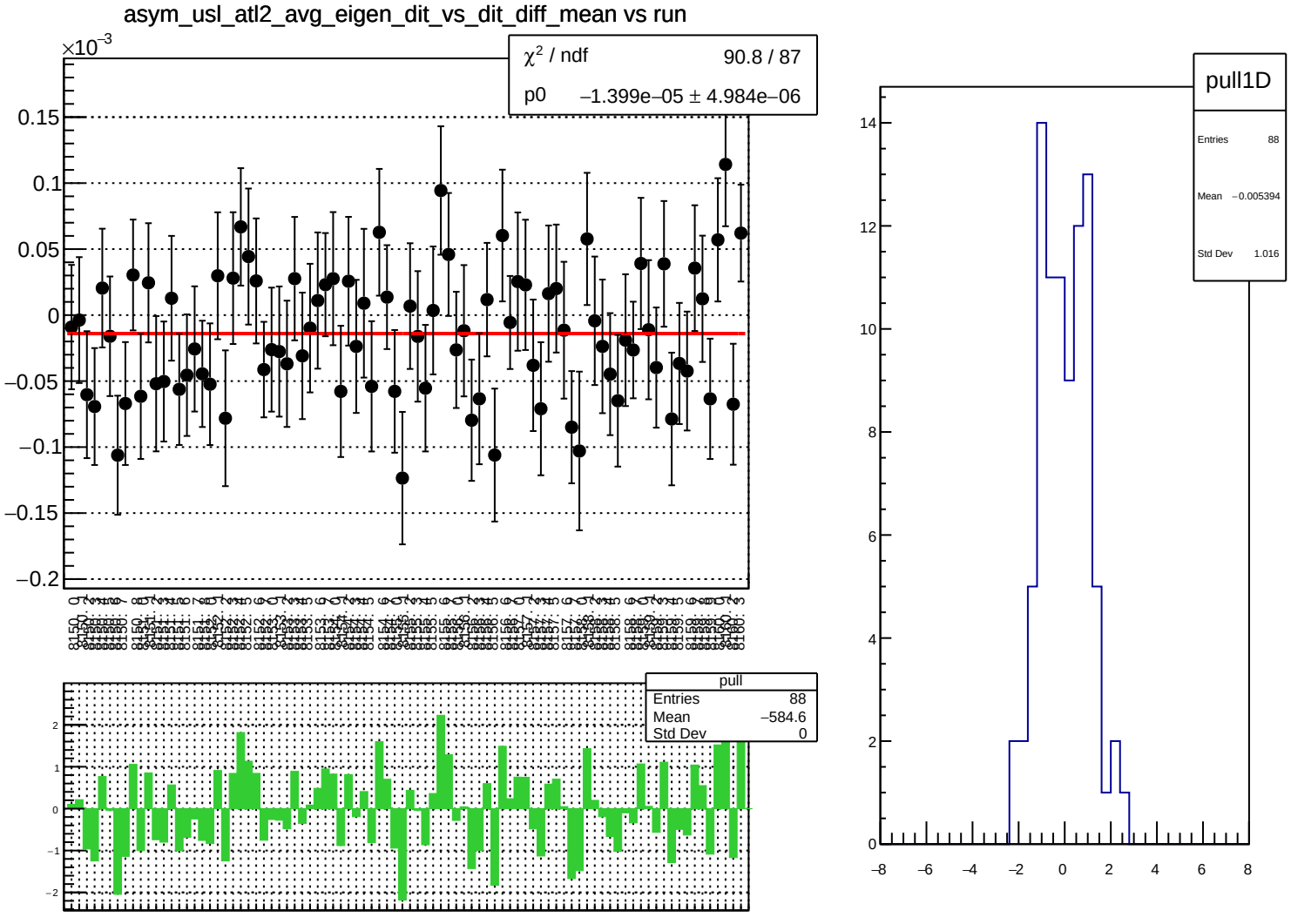

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.44 / 87
p0 −0.09657 ± 0.1423
pull
Entries 88
Mean −8.721
Std Dev 63.63
pull1D
Entries 88
Mean −0.004048
Std Dev 0.9796

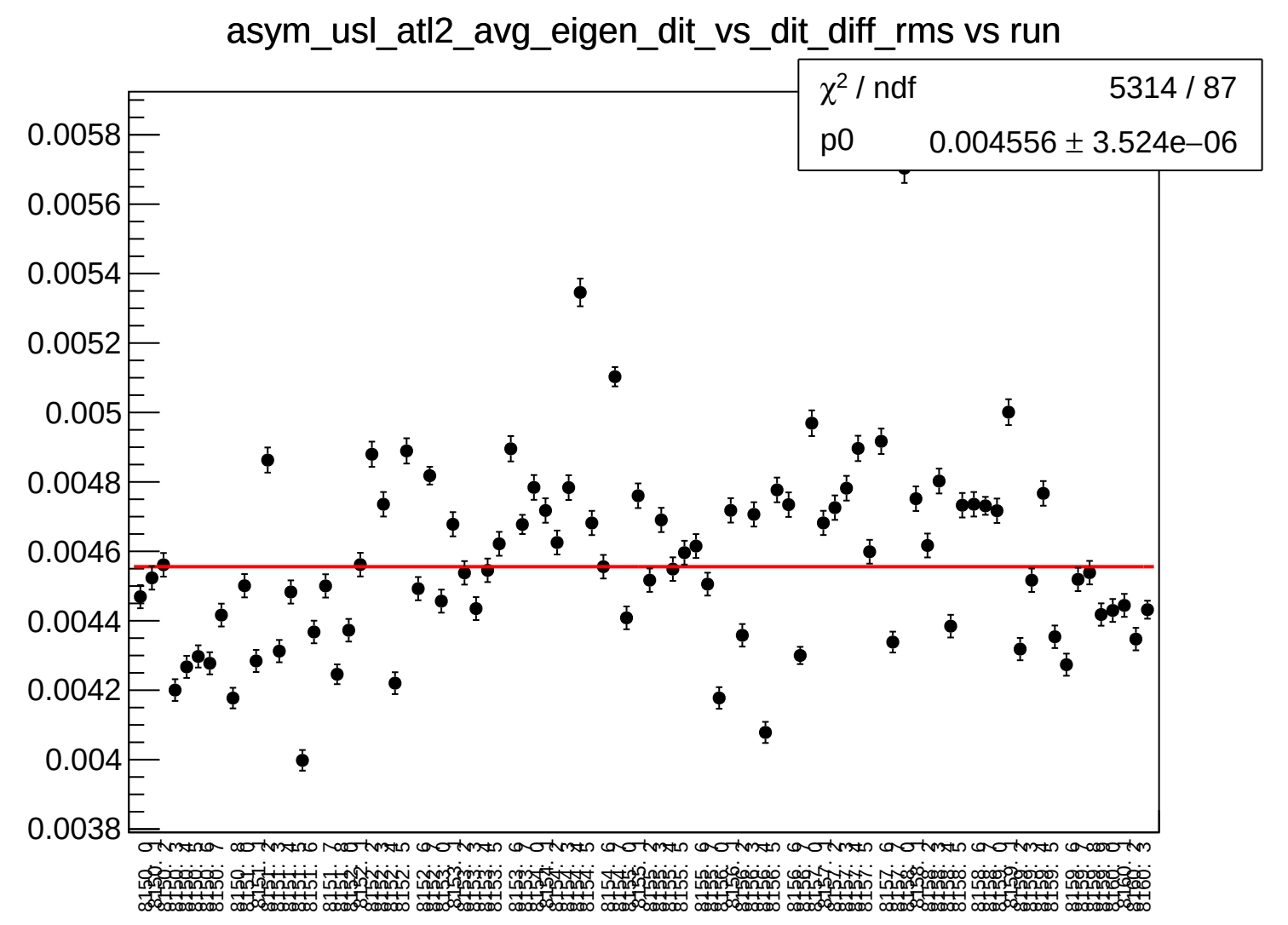

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.727e+04 / 87
p0 129.2 ± 0.1006
180
160
140
120
100
80

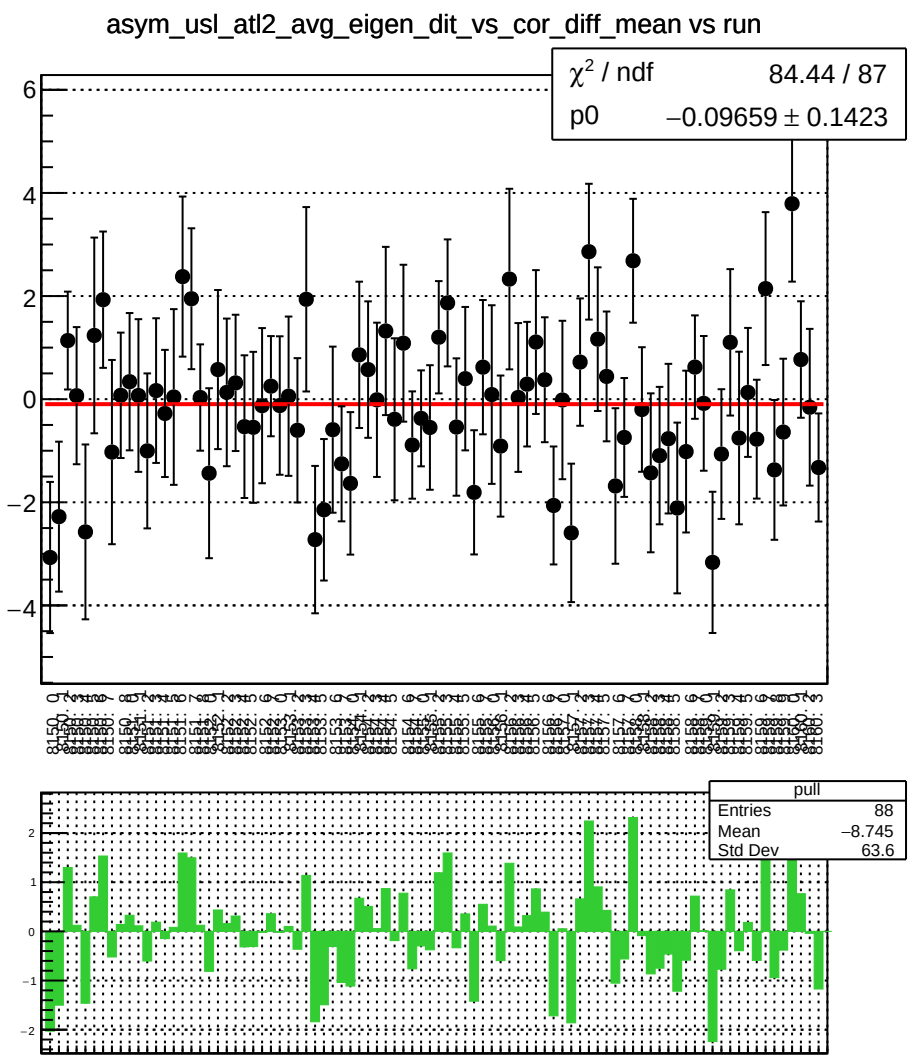

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.44 / 87
p0 −0.09657 ± 0.1423
pull
Entries 88
Mean −8.721
Std Dev 63.63

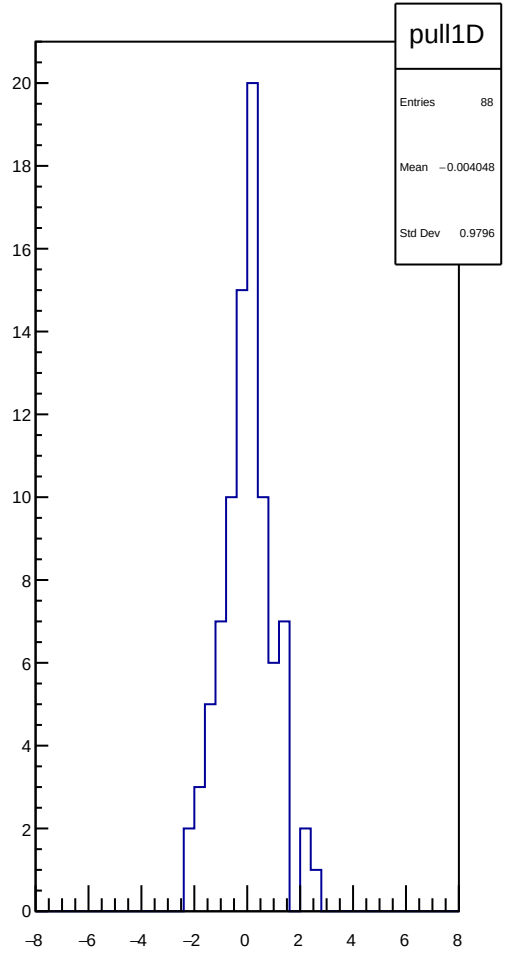

pull1D
Entries 88
Mean −0.004048
Std Dev 0.9796

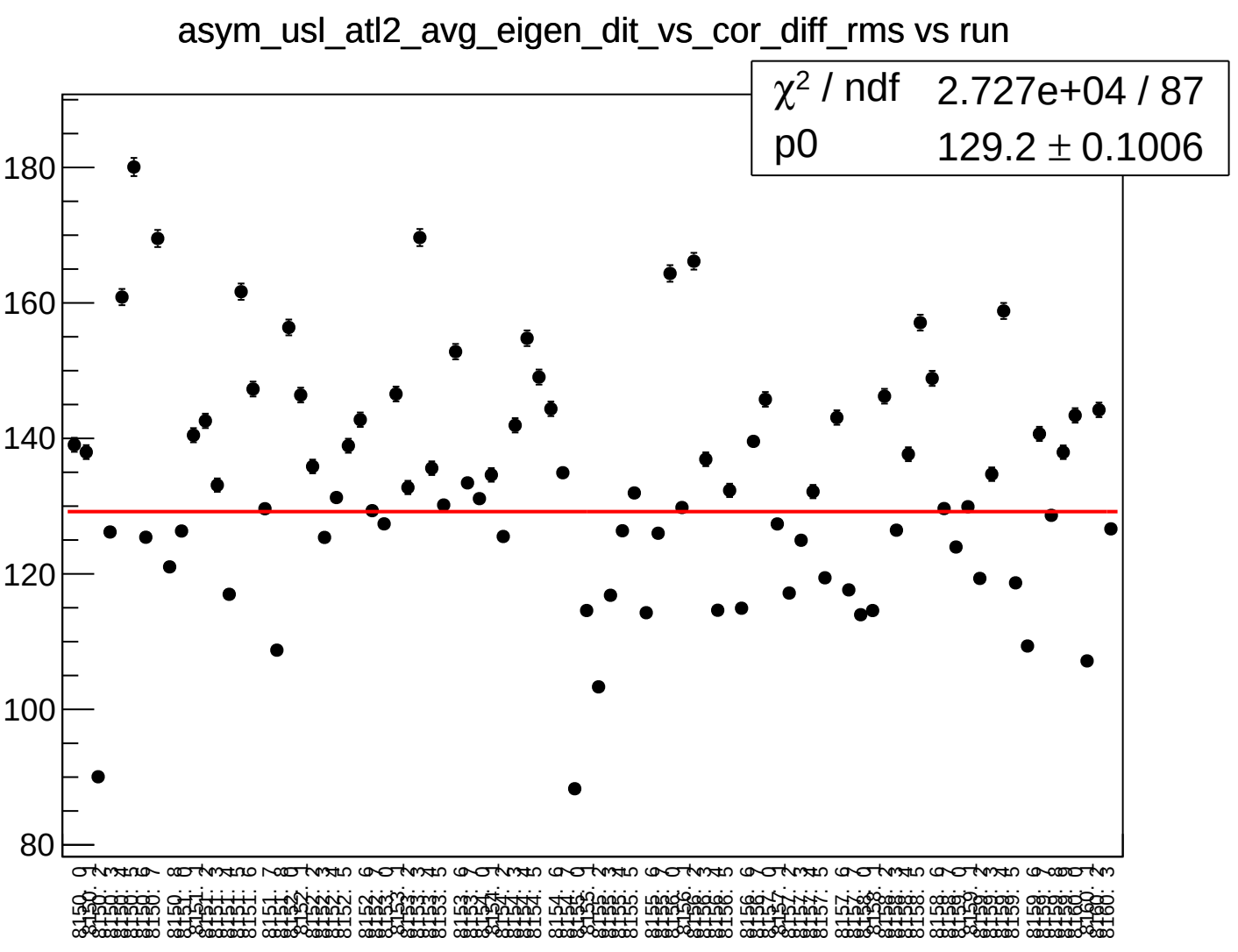

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.727e+04 / 87
p0 129.2 ± 0.1006
180
160
140
120
100
80

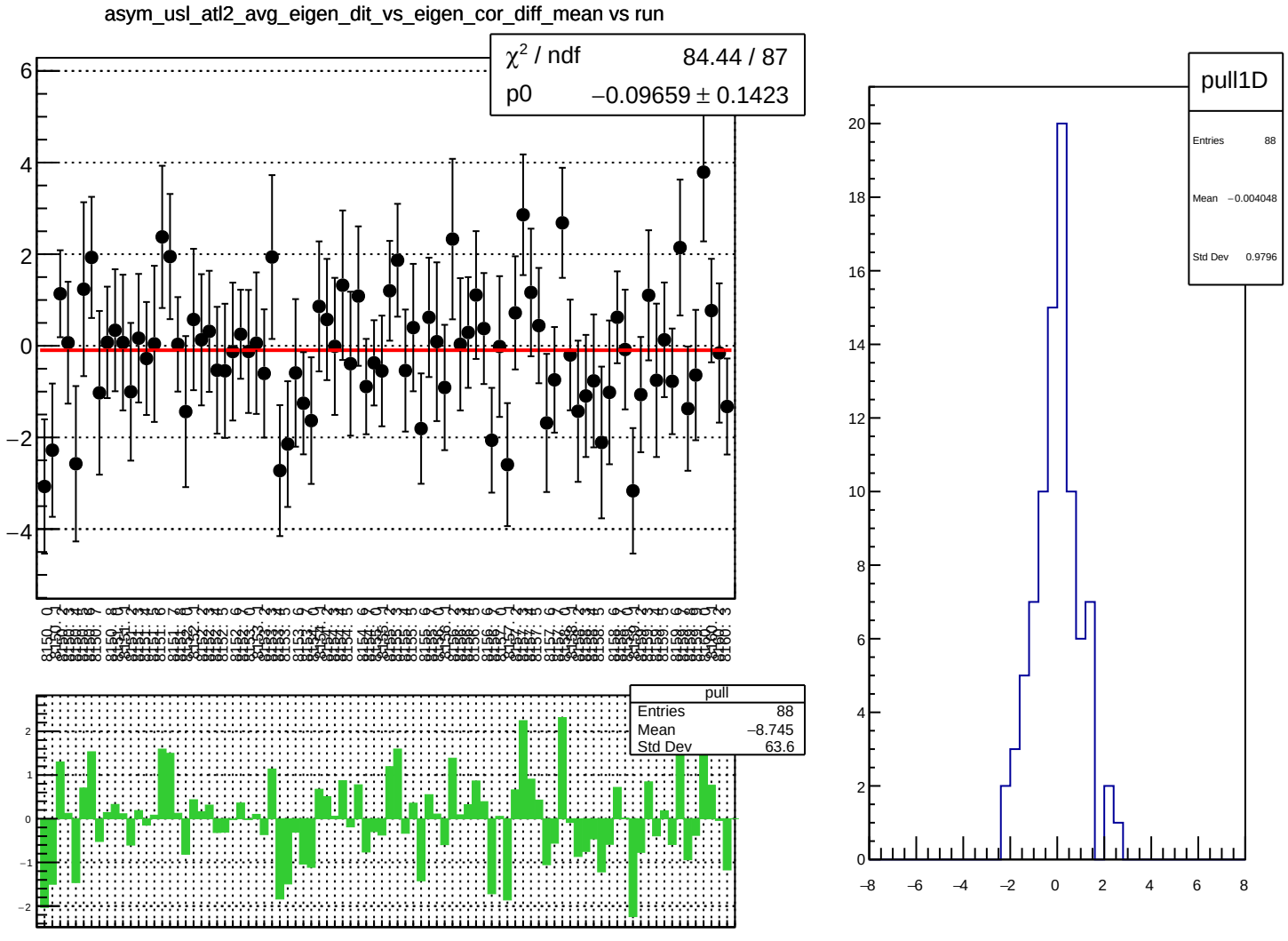

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.8 / 87
p0 −1.399e−05 ± 4.984e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 88
Mean −584.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.005394
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

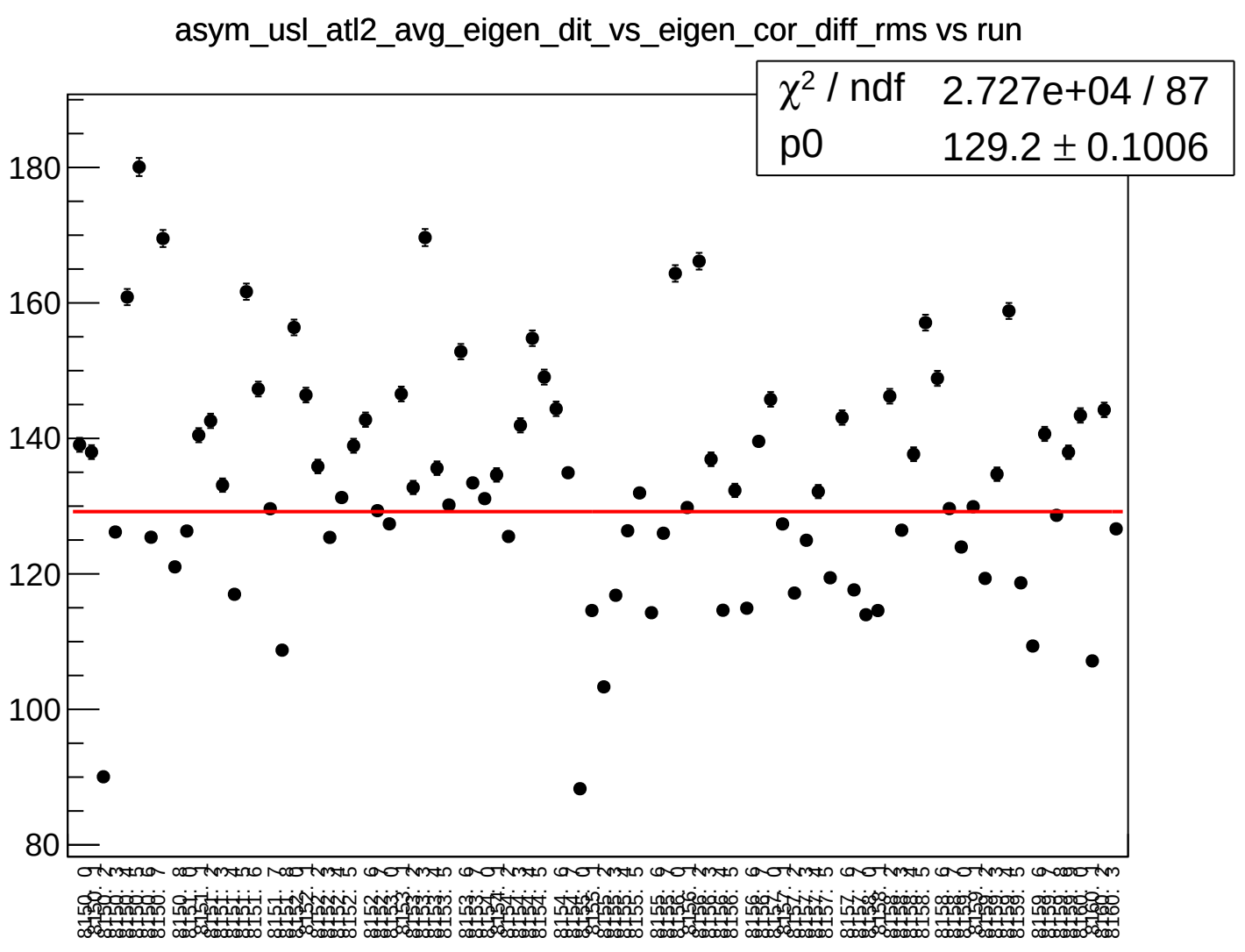

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5314 / 87
p0 0.004556 ± 3.524e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

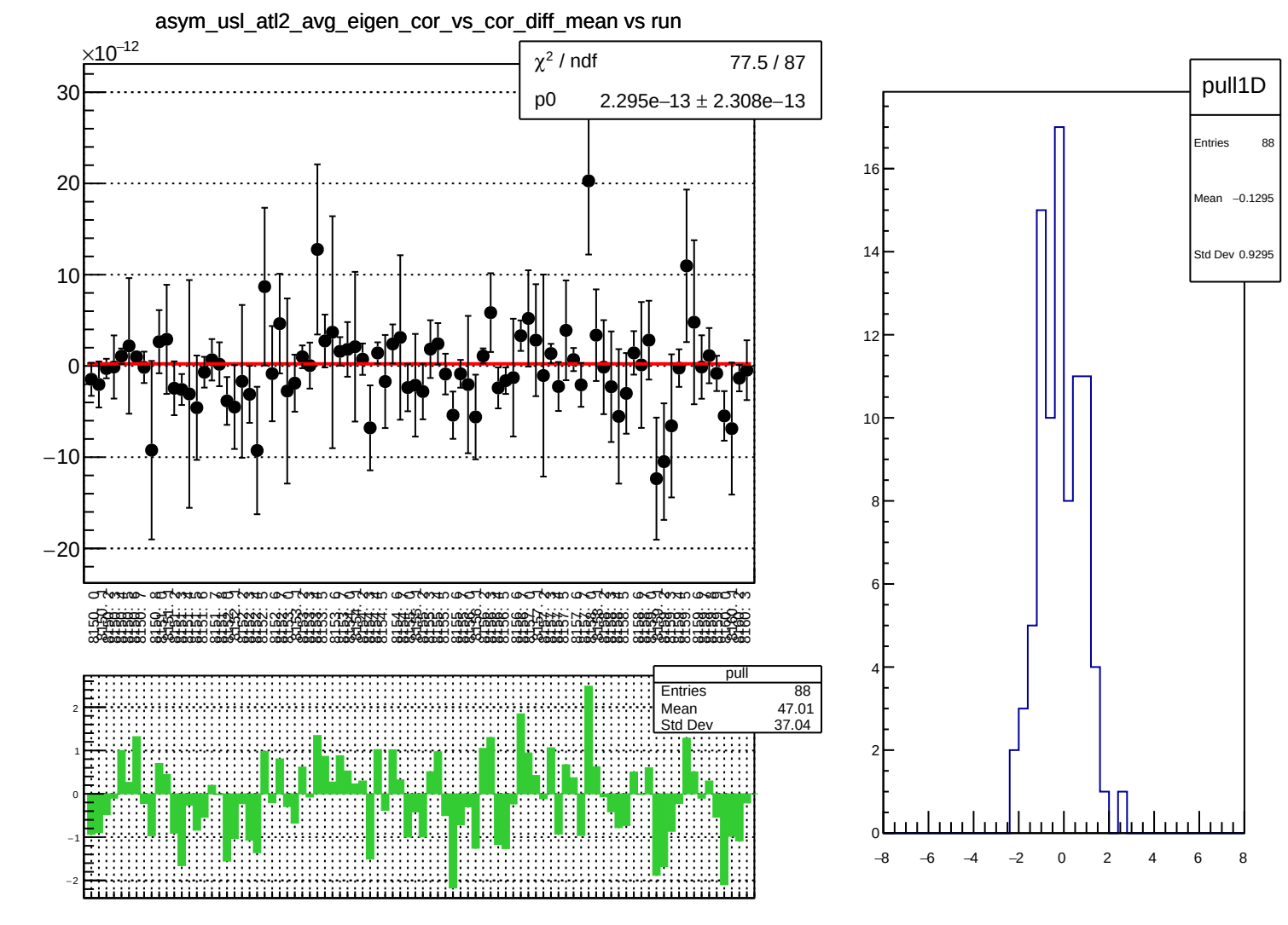

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.44 / 87
p0 −0.09659 ± 0.1423
pull
Entries 88
Mean −8.745
Std Dev 63.6

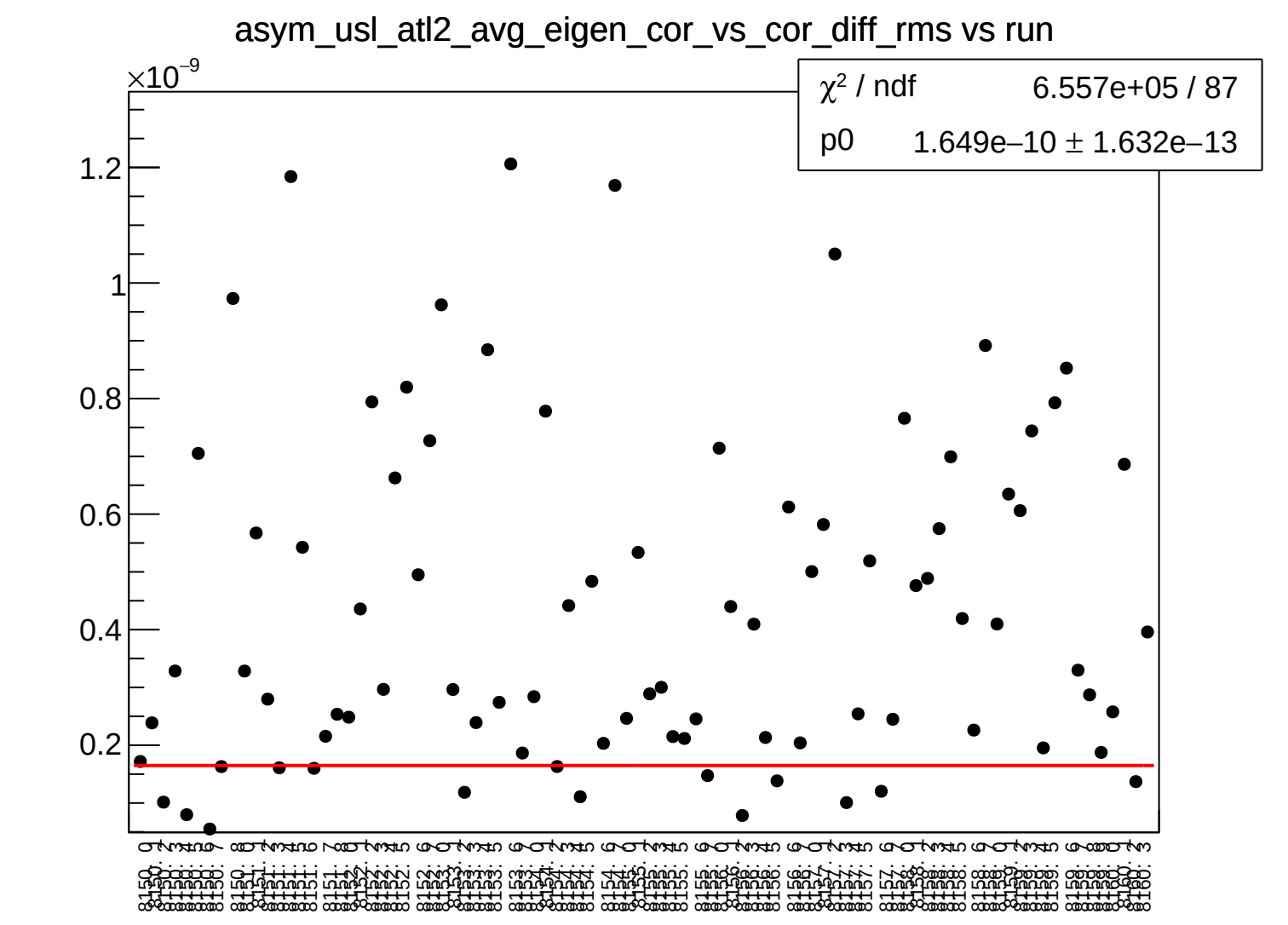

pull1D
Entries 88
Mean −0.004048
Std Dev 0.9796

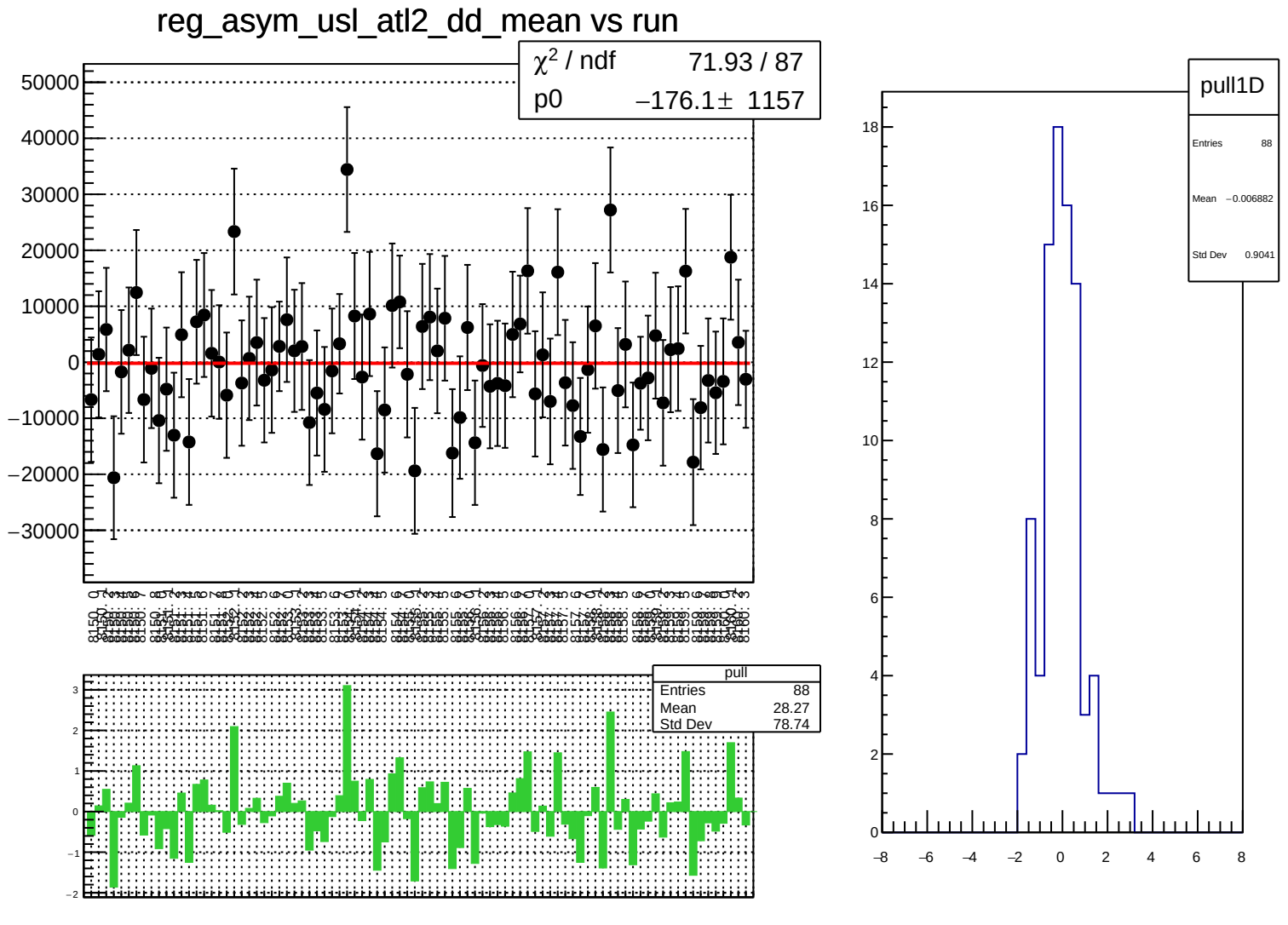

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.727e+04 / 87
p0 129.2 ± 0.1006
180
160
140
120
100
80

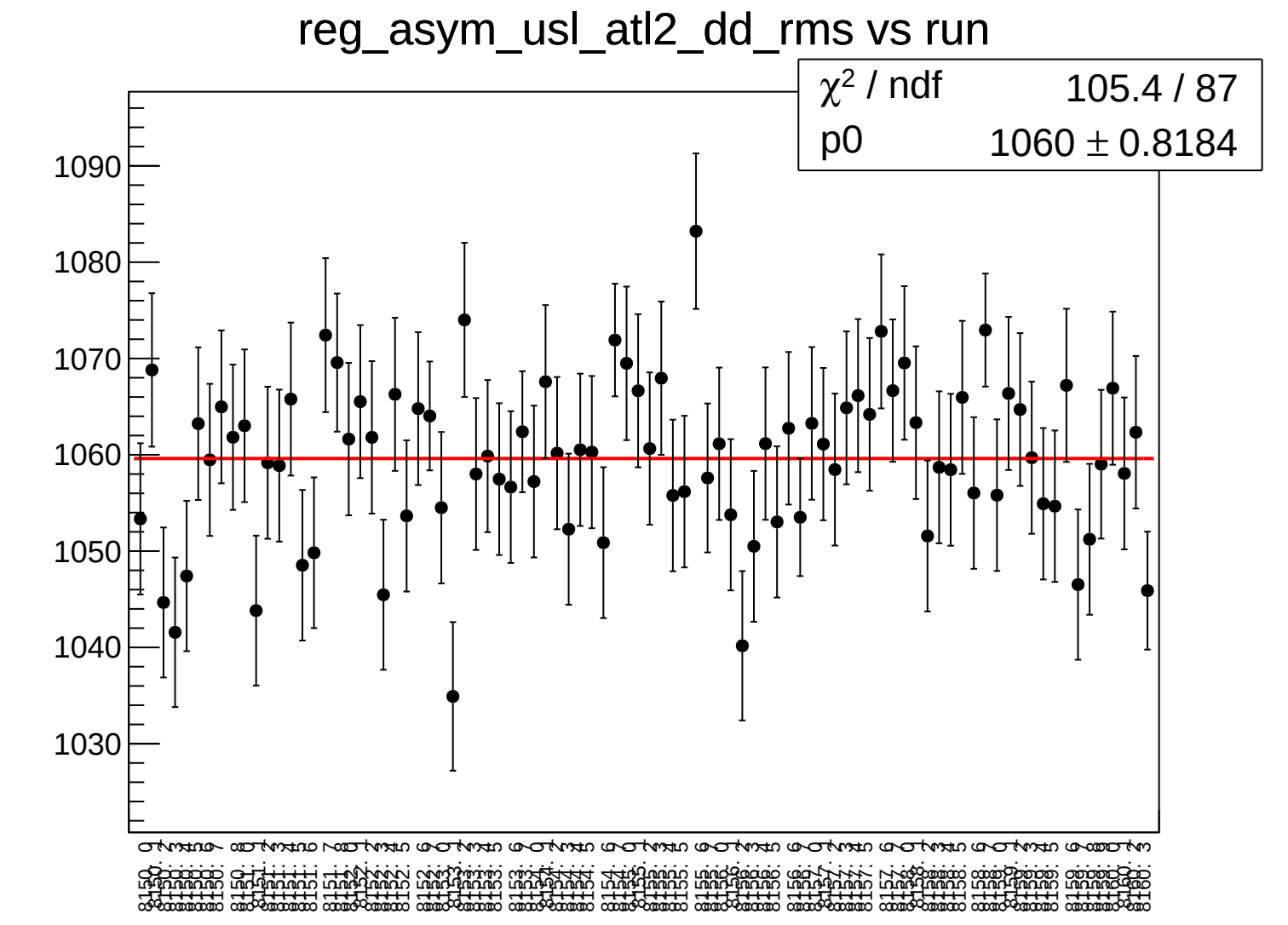

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.44 / 87
p0 −0.09659 ± 0.1423
pull
Entries 88
Mean −8.745
Std Dev 63.6
pull1D
Entries 88
Mean −0.004048
Std Dev 0.9796

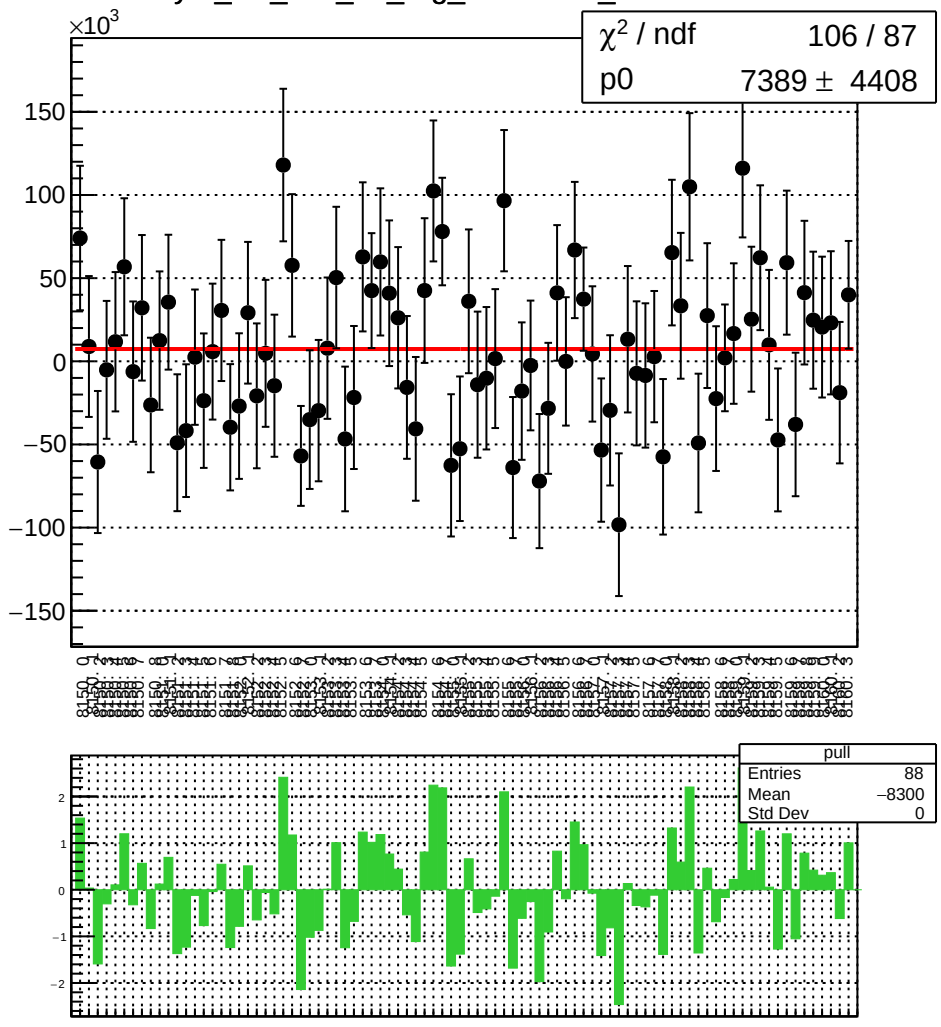

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.727e+04 / 87
p0 129.2 ± 0.1006
180
160
140
120
100
80

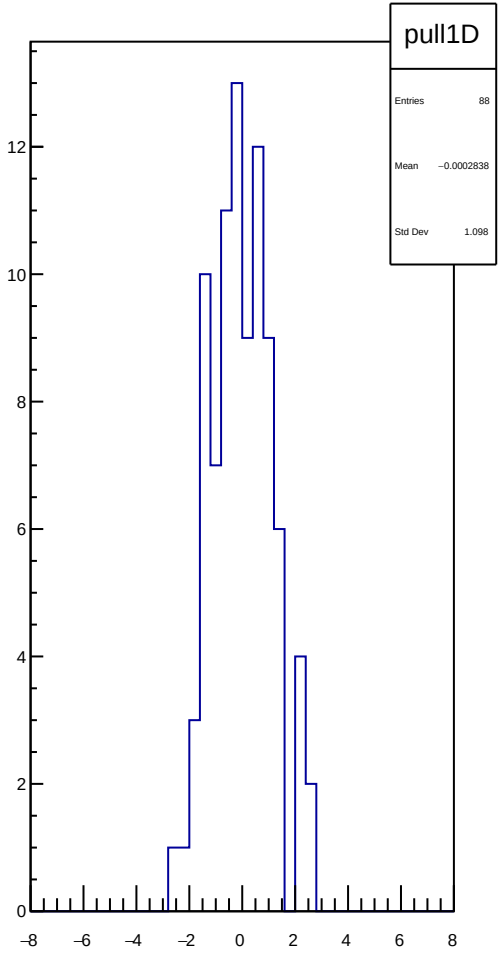

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.5 / 87
p0 2.295e−13 ± 2.308e−13
30
20
10
0
−10
−20
pull
Entries 88
Mean 47.01
Std Dev 37.04
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.1295
Std Dev 0.9295
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

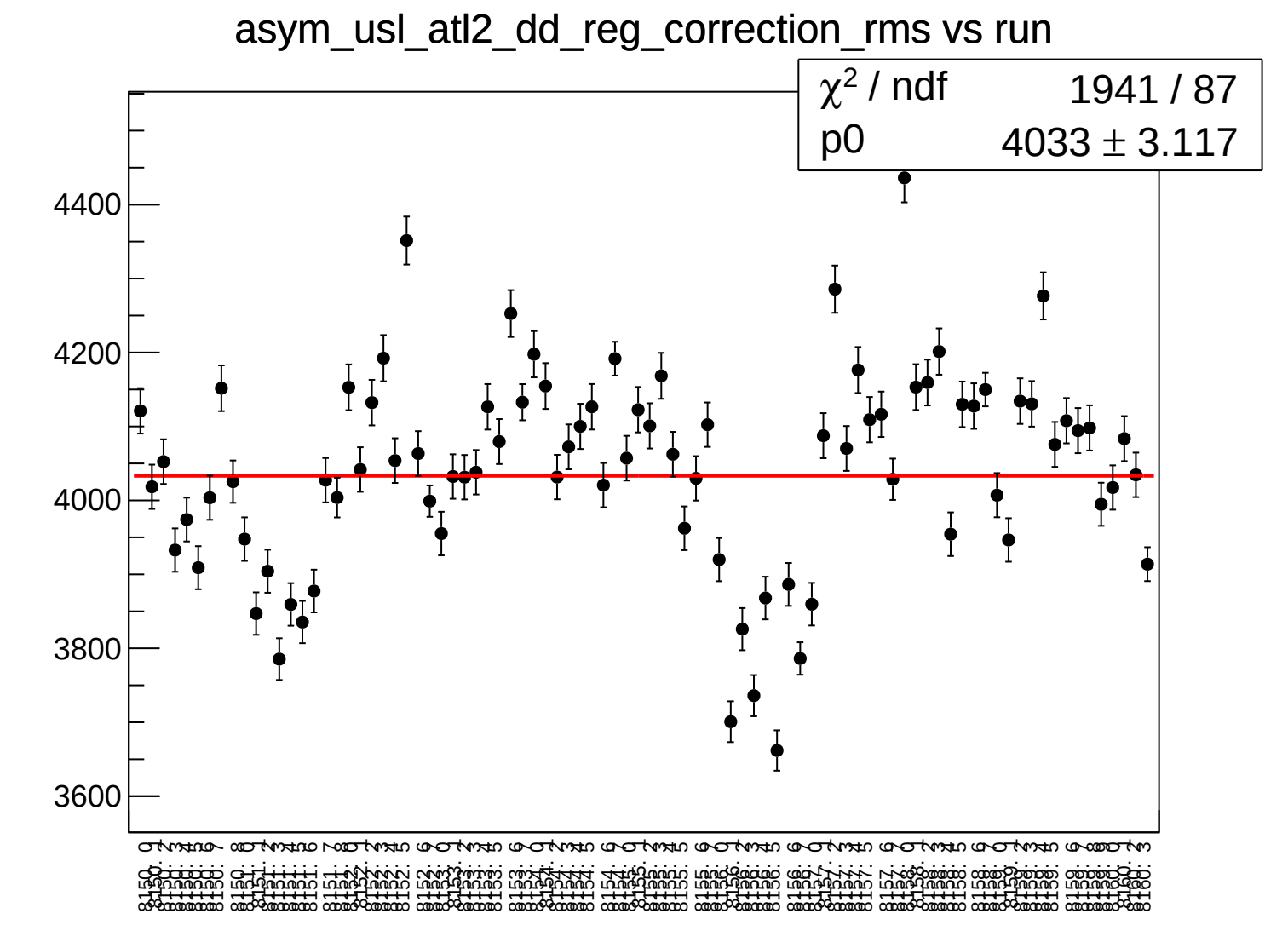

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.557e+05 / 87
p0 1.649e−10 ± 1.632e−13
1.2
1
0.8
0.6
0.4
0.2

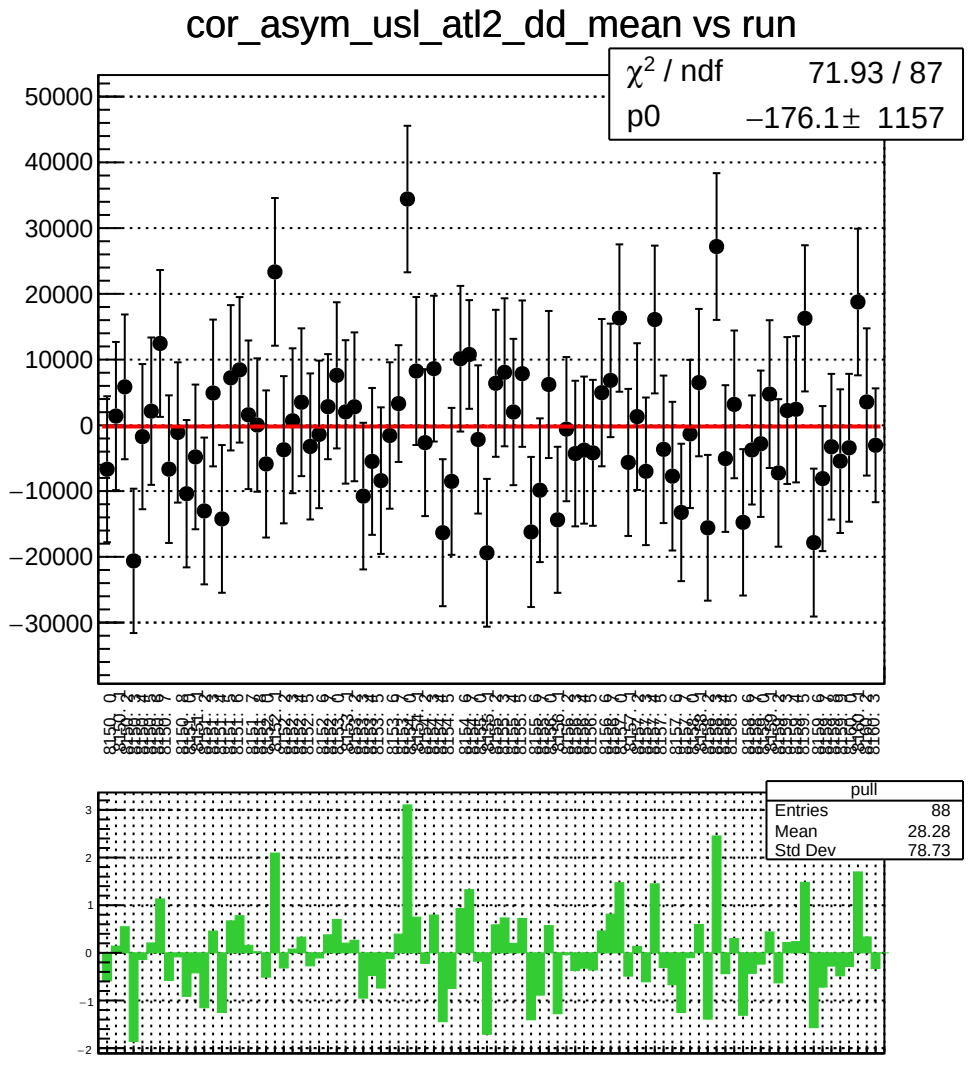

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 71.93 / 87
p0 −176.1± 1157
pull
Entries 88
Mean 28.27
Std Dev 78.74
pull1D
Entries 88
Mean −0.006882
Std Dev 0.9041

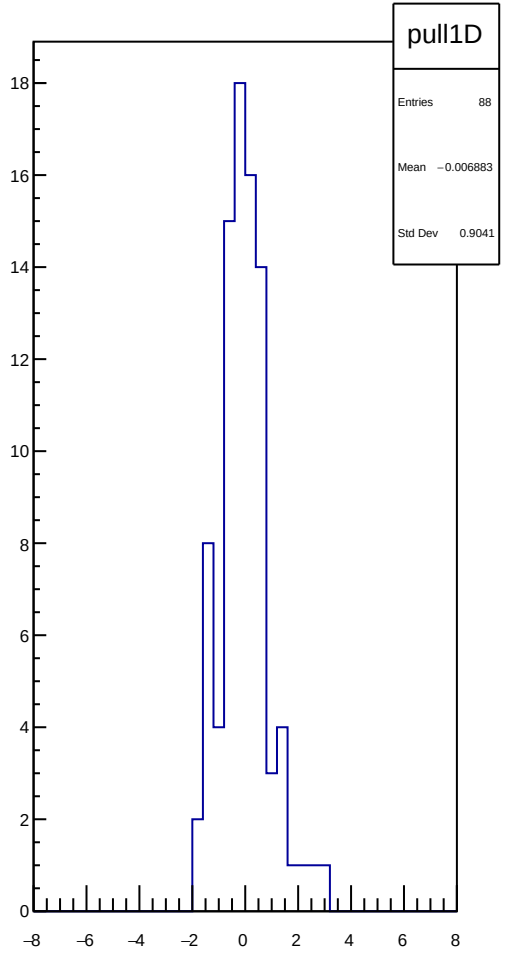

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 105.4 / 87
p0 1060 ± 0.8184
1090
1080
1070
1060
1050
1040
1030

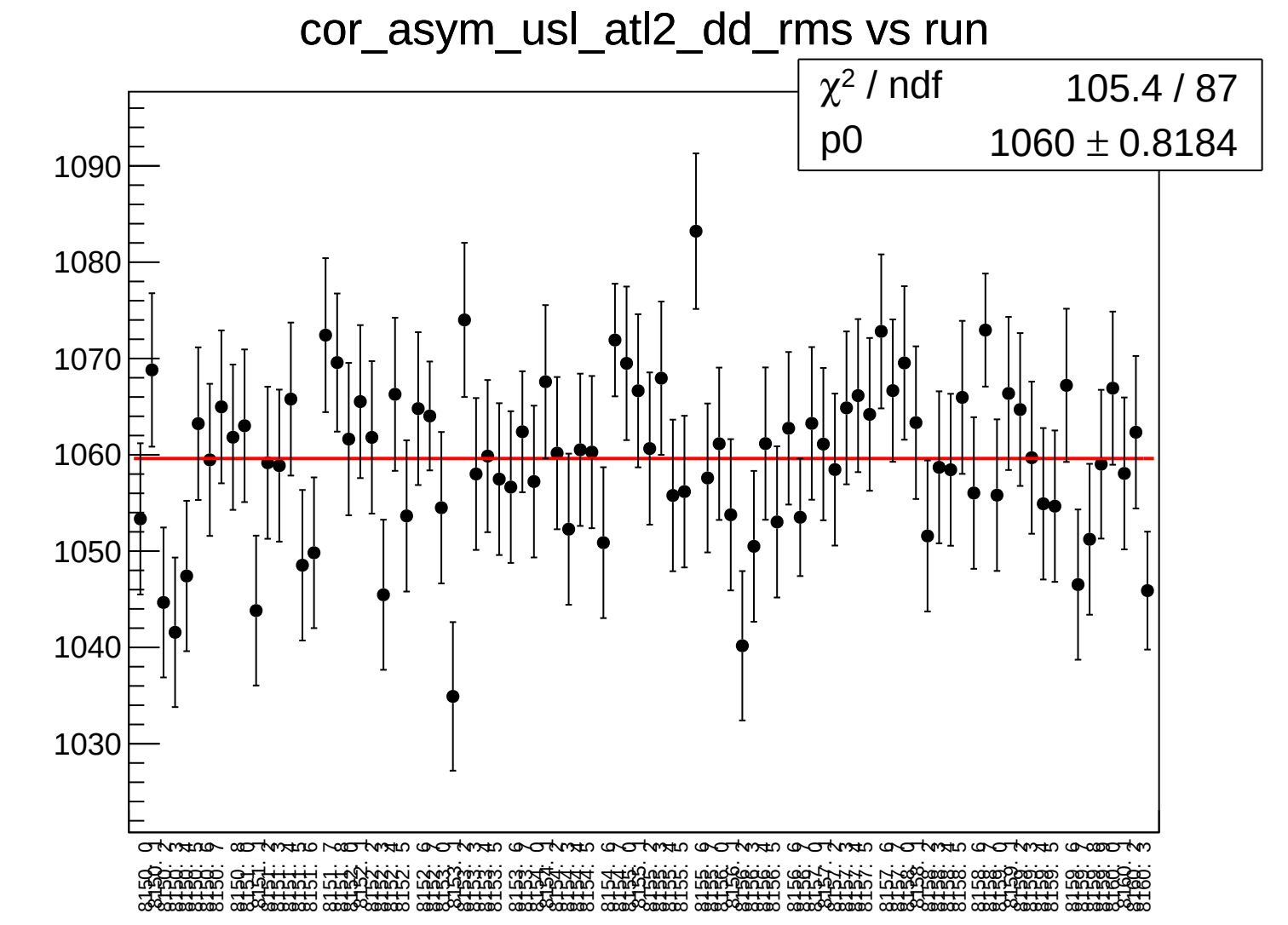

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 106 / 87
p0 7389 ± 4408
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −8300
Std Dev 0
2
1
0
−1
−2

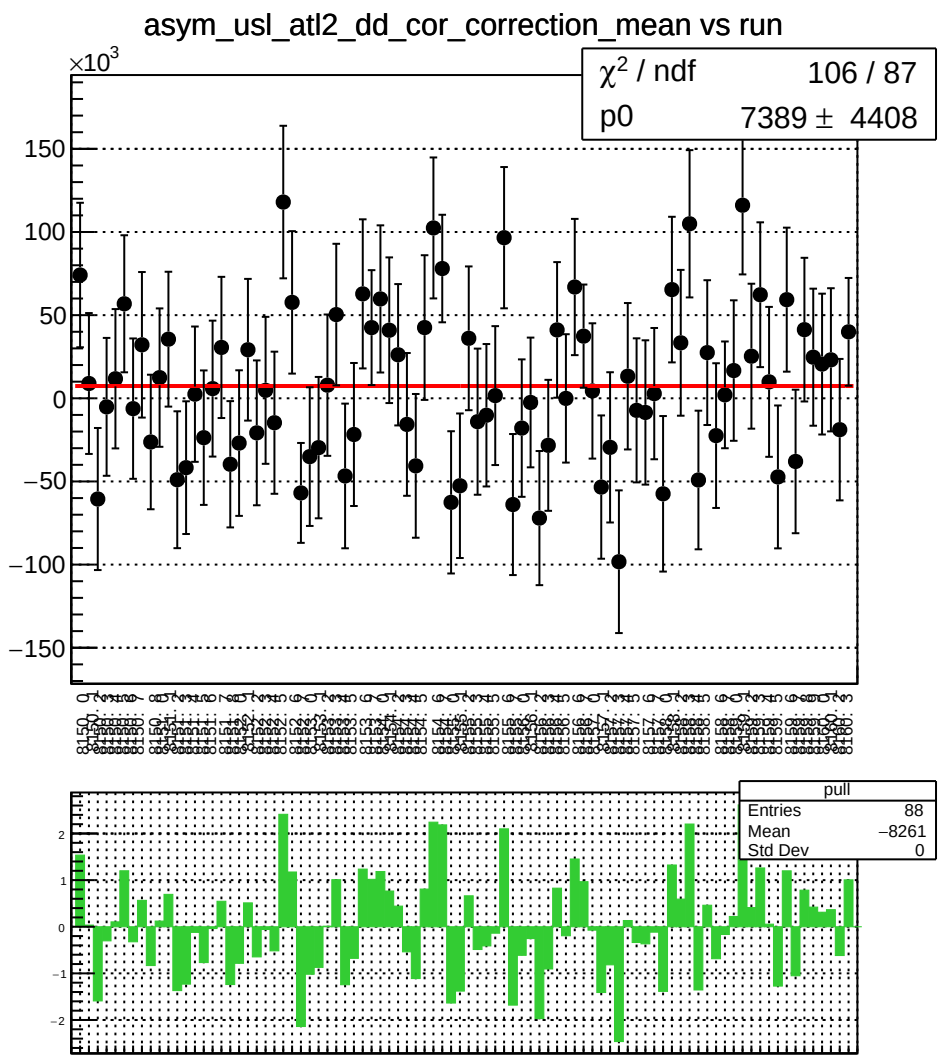

pull1D
Entries 88
Mean −0.0002838
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

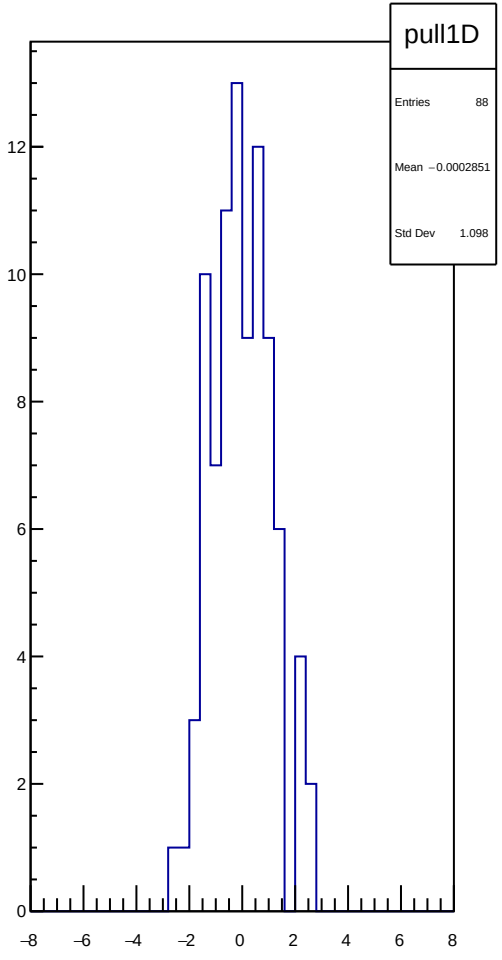

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1941 / 87
p0 4033 ± 3.117
4400
4200
4000
3800
3600

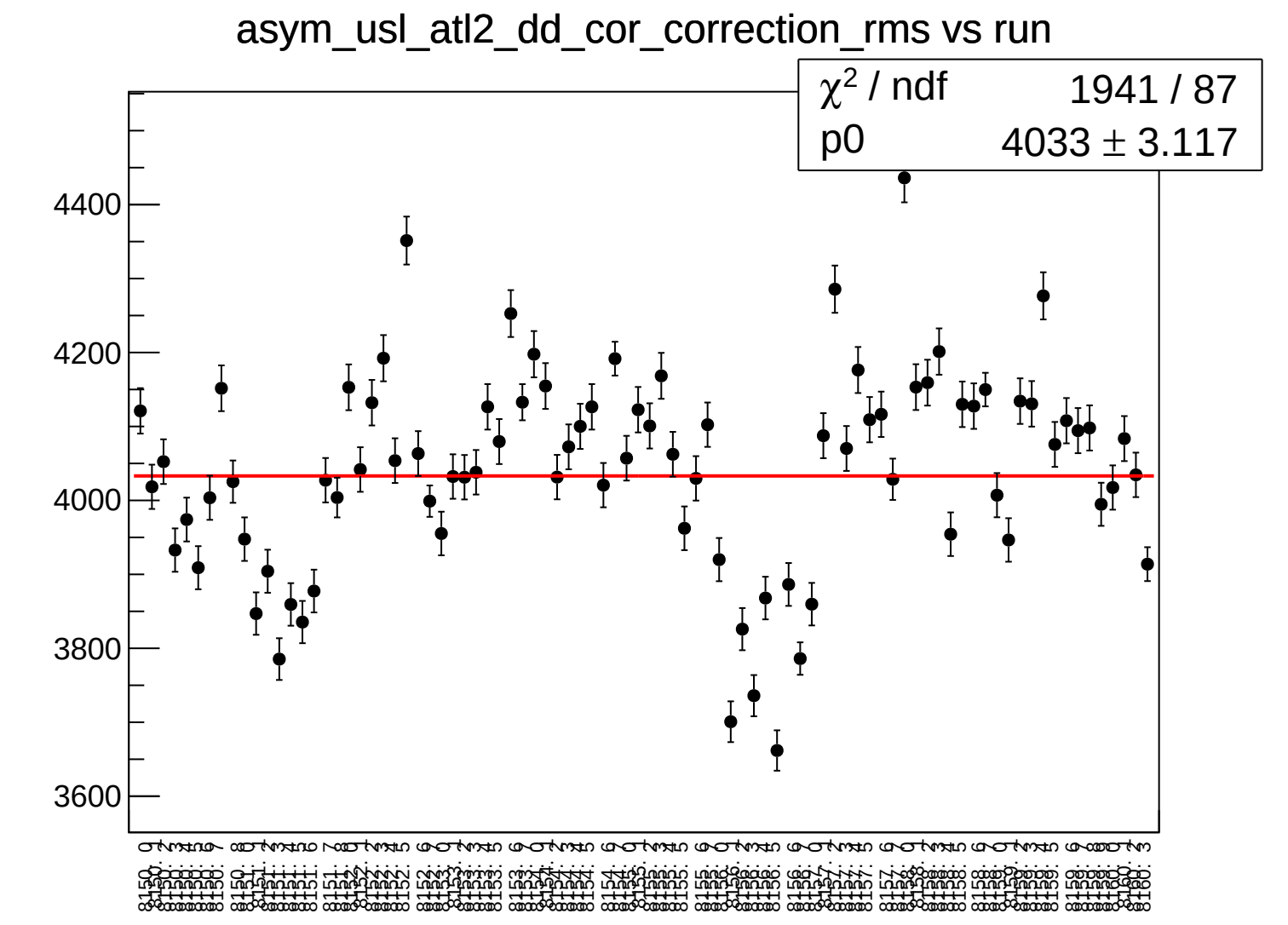

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 71.93 / 87
p0 −176.1± 1157
pull
Entries 88
Mean 28.28
Std Dev 78.73

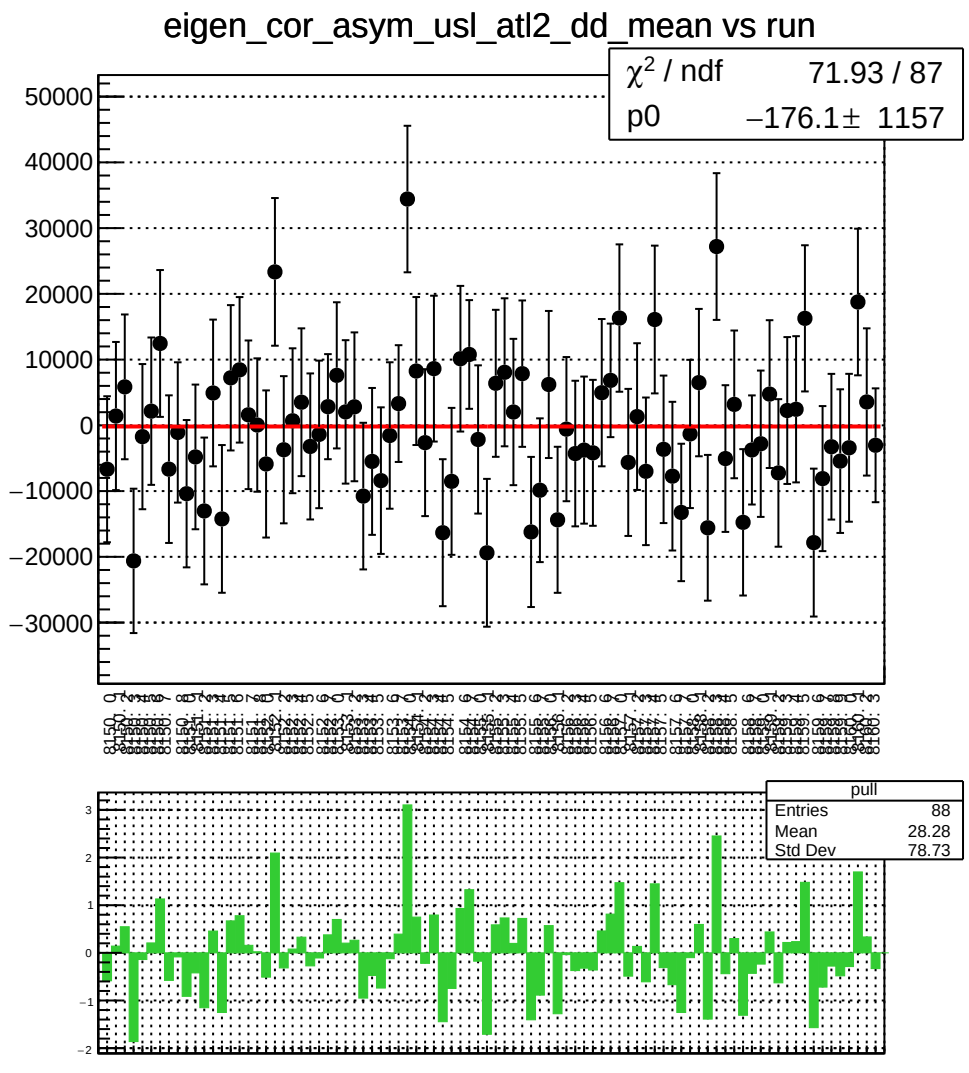

pull1D
Entries 88
Mean −0.006883
Std Dev 0.9041

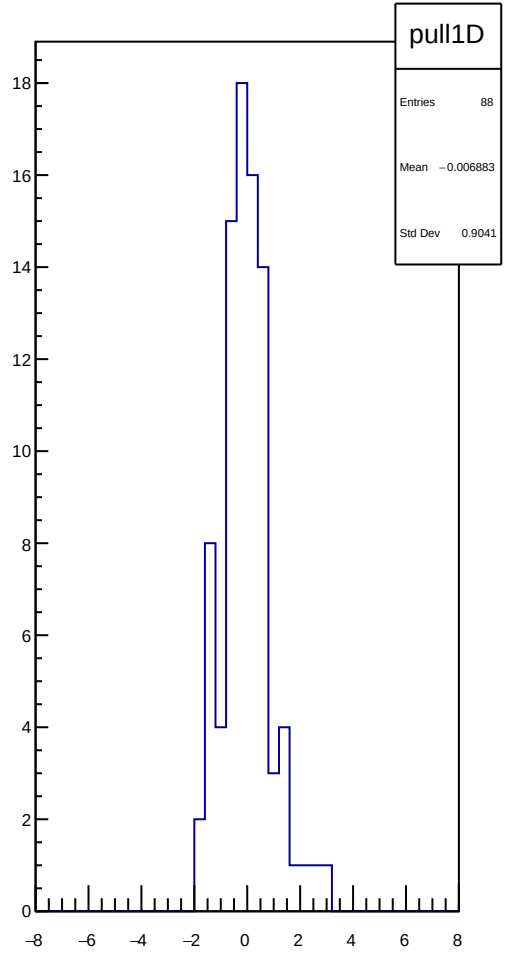

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 105.4 / 87
p0 1060 ± 0.8184
1090
1080
1070
1060
1050
1040
1030

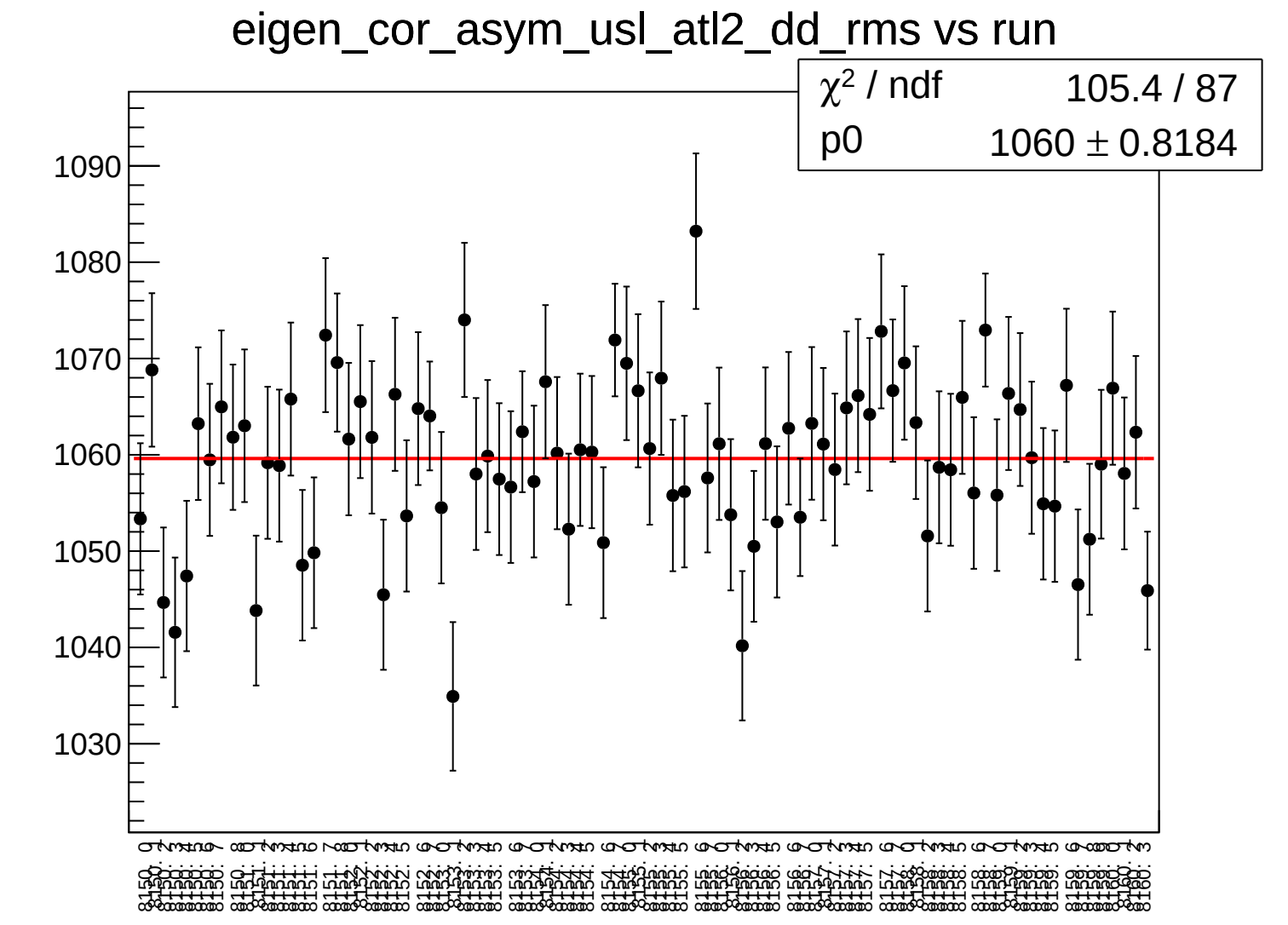

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 106 / 87
p0 7389 ± 4408
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −8261
Std Dev 0
2
1
0
−1
−2

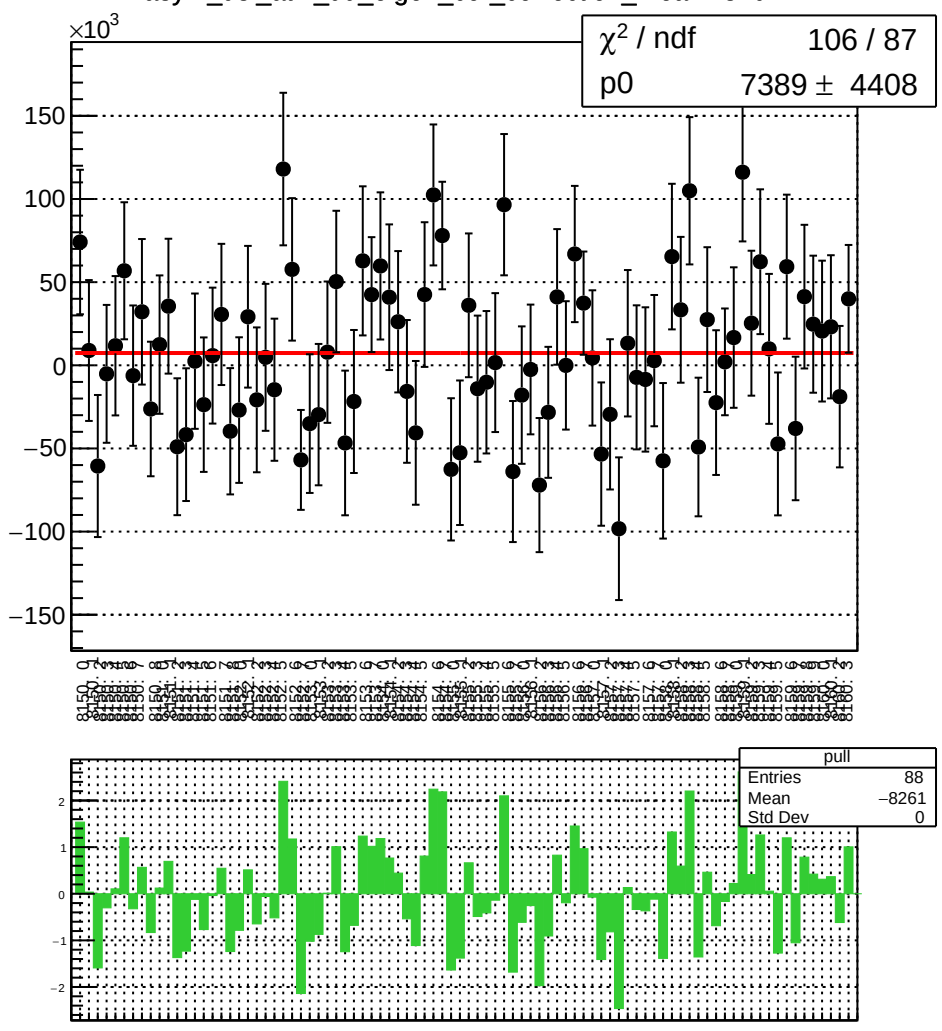

pull1D
Entries 88
Mean −0.0002851
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

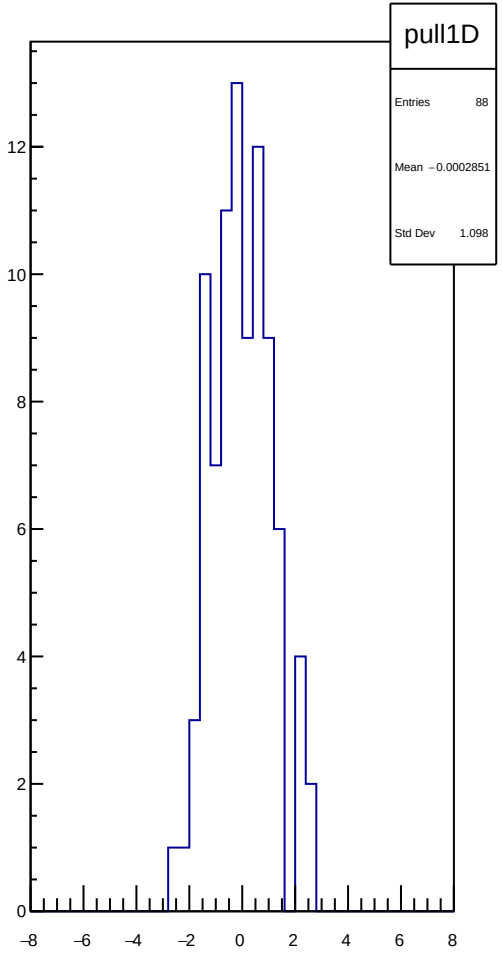

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 1941 / 87
p0 4033 ± 3.117
4400
4200
4000
3800
3600

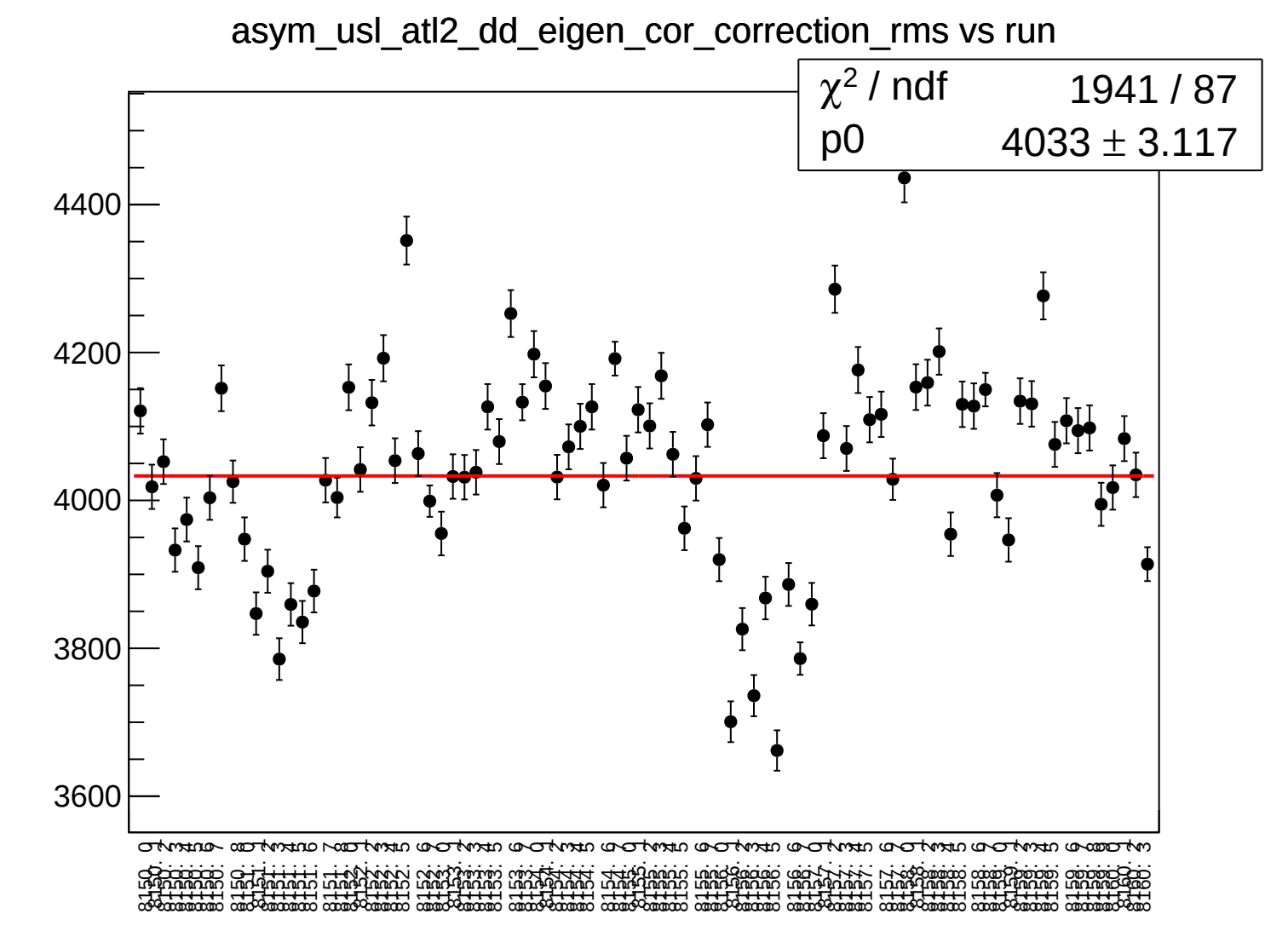

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 71.93 / 87
p0 −176.1± 1157
pull
Entries 88
Mean 28.28
Std Dev 78.73

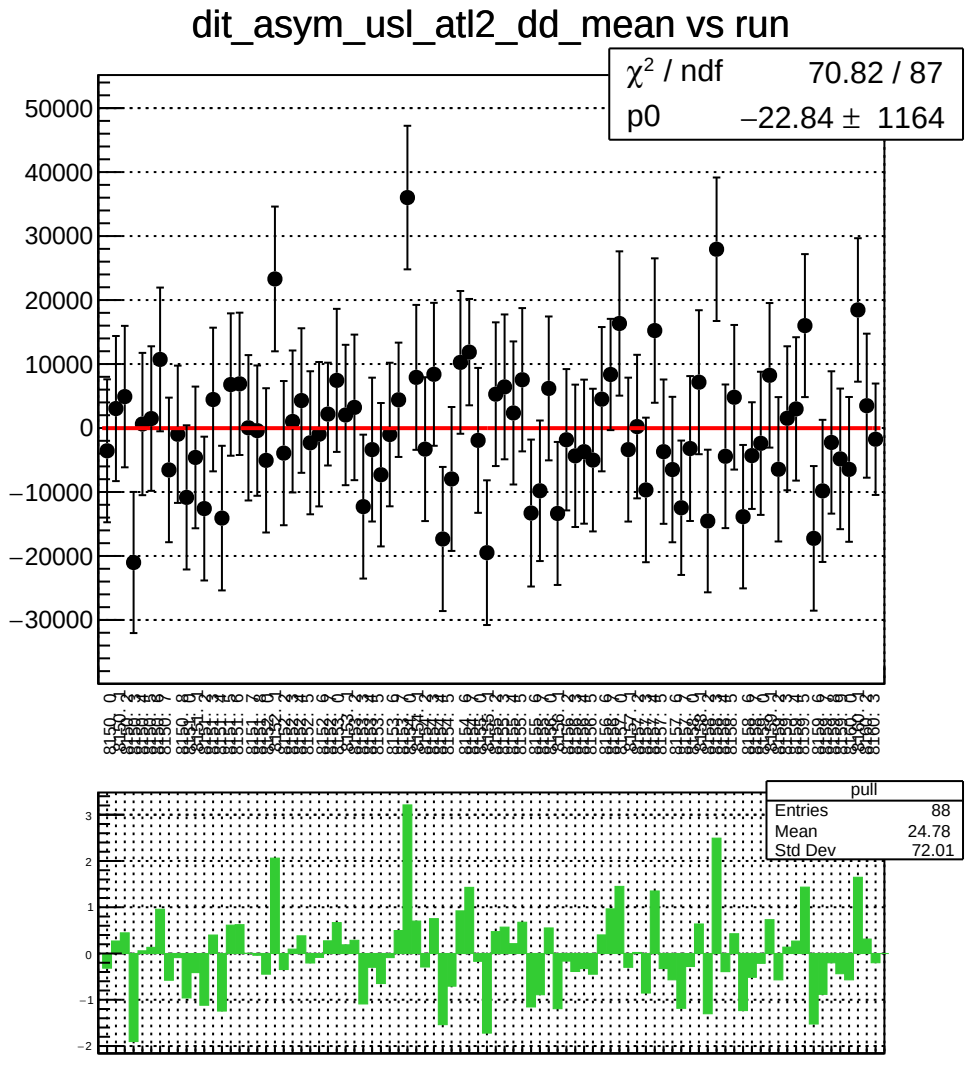

pull1D
Entries 88
Mean −0.006883
Std Dev 0.9041

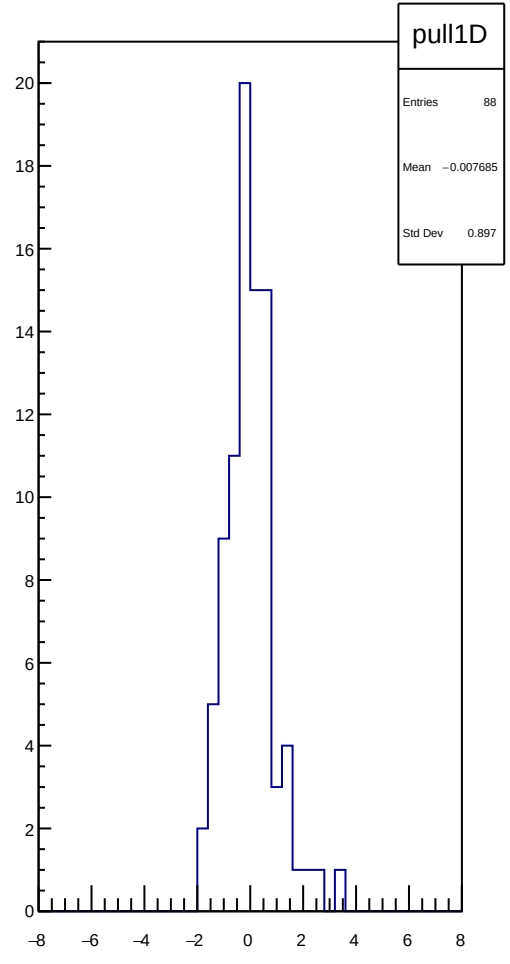

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 105.4 / 87
p0 1060 ± 0.8184
1090
1080
1070
1060
1050
1040
1030

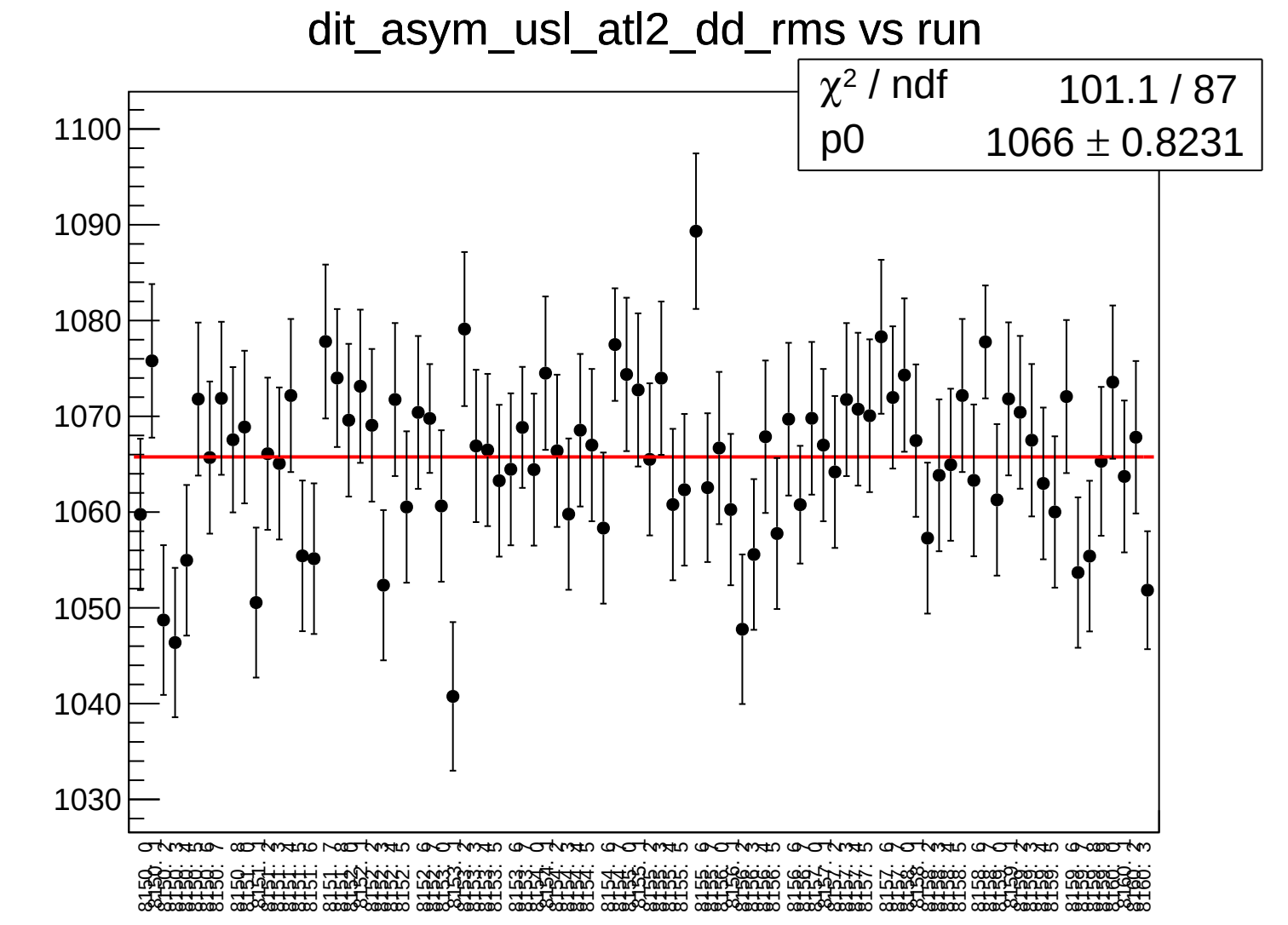

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 106 / 87
p0 7389 ± 4408
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −8261
Std Dev 0
2
1
0
−1
−2

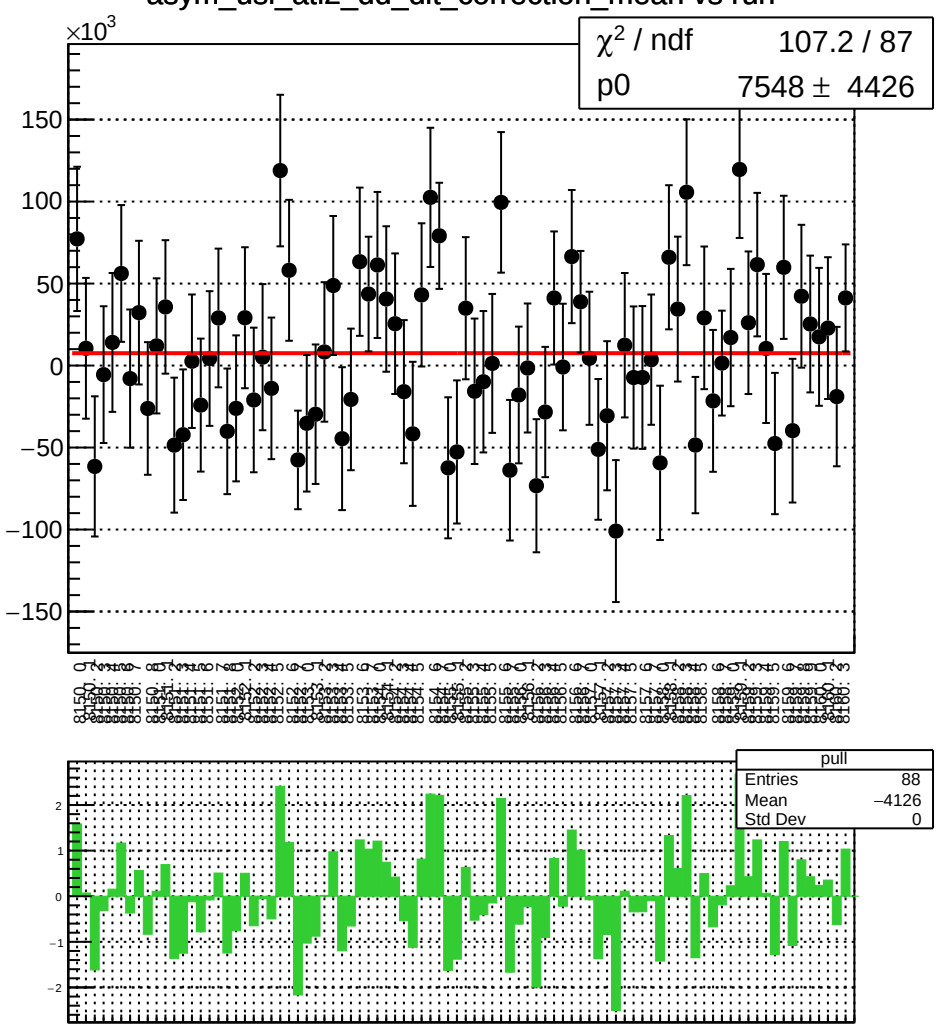

pull1D
Entries 88
Mean −0.0002851
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

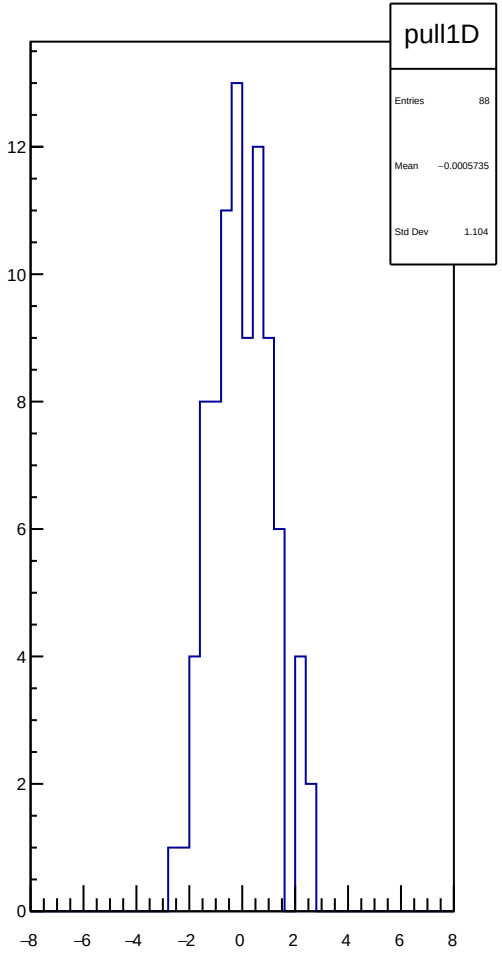

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1941 / 87
p0 4033 ± 3.117
4400
4200
4000
3800
3600

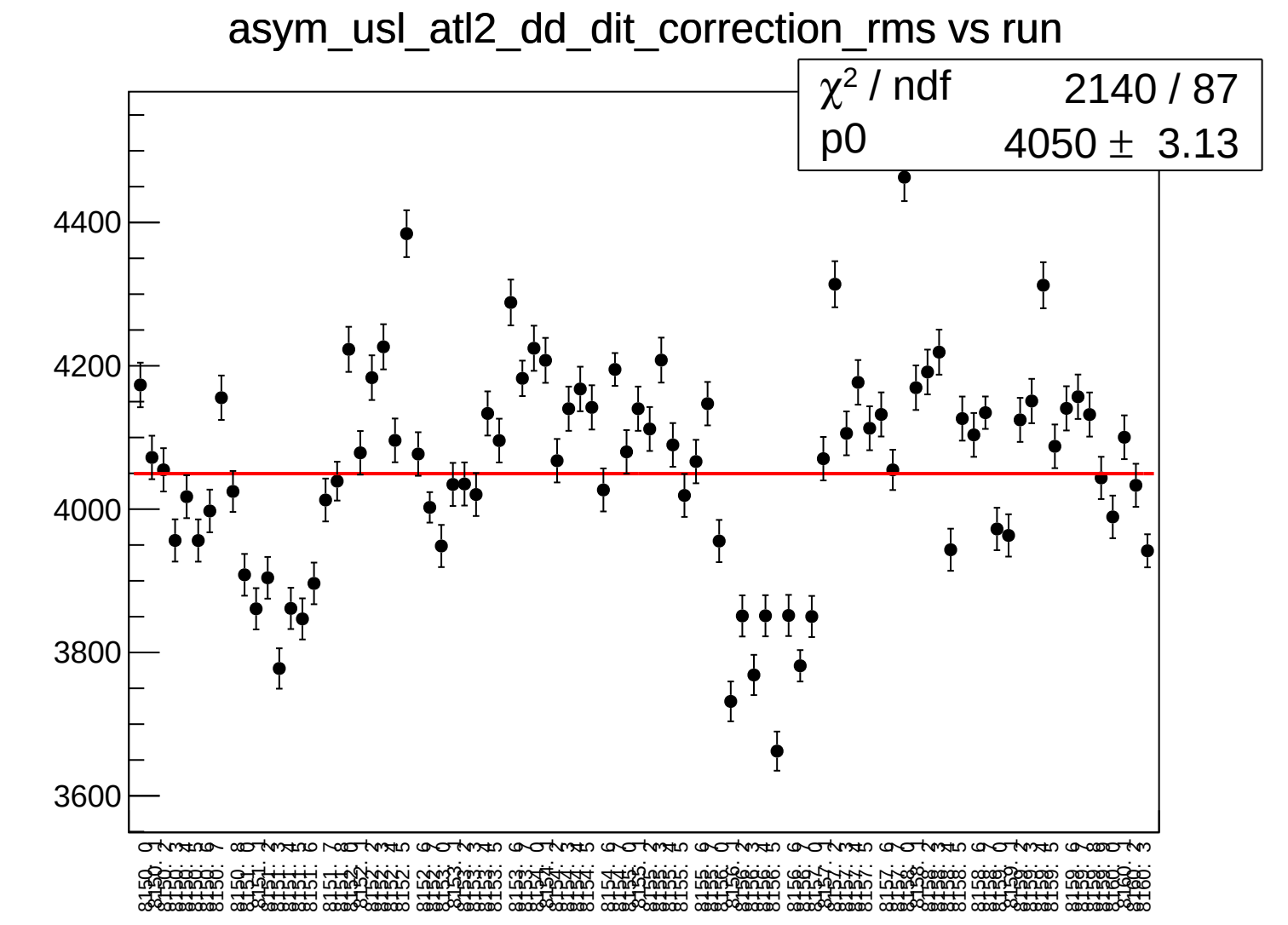

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 70.82 / 87
p0 −22.84 ± 1164
pull
Entries 88
Mean 24.78
Std Dev 72.01

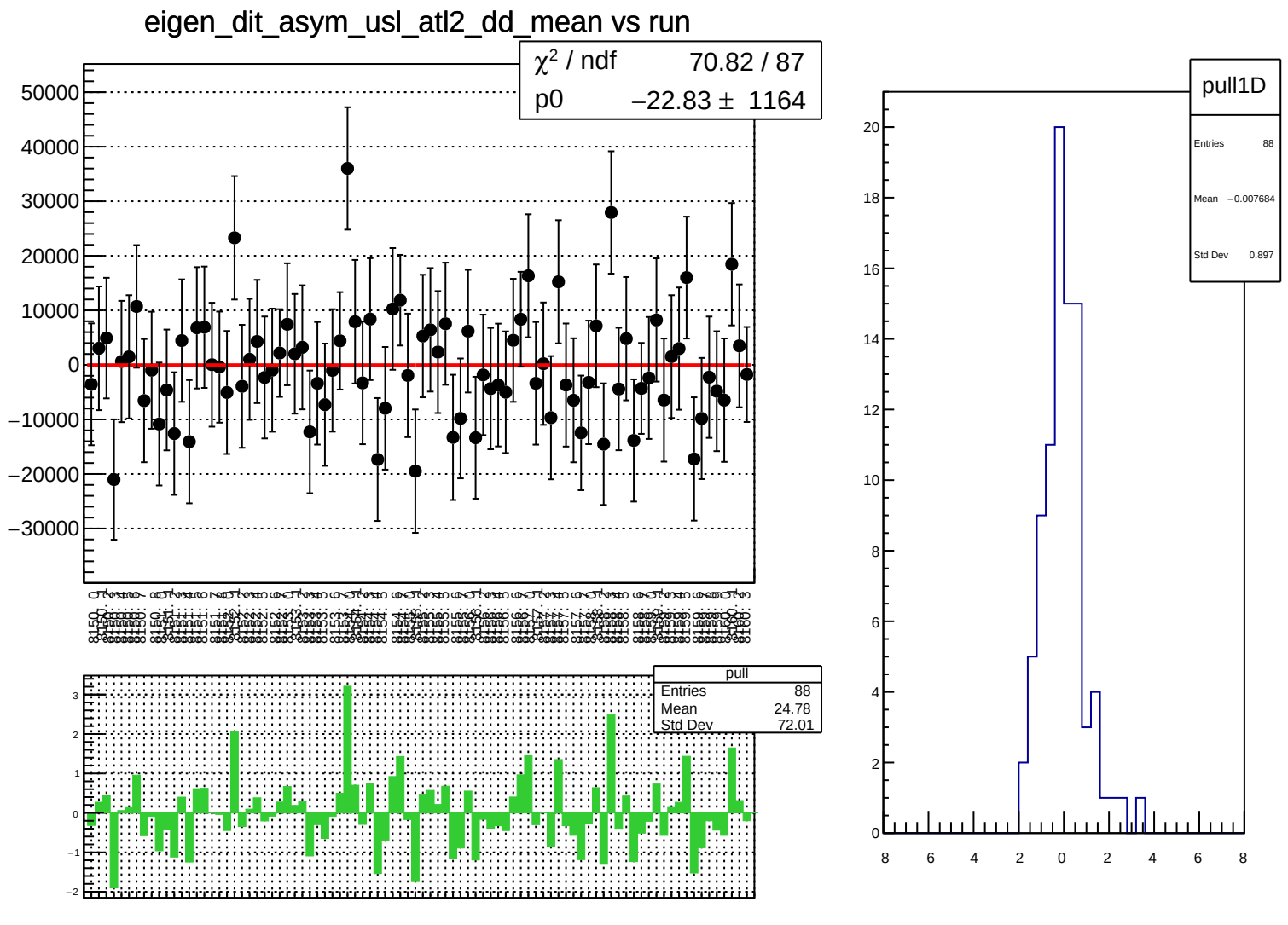

pull1D
Entries 88
Mean −0.007685
Std Dev 0.897

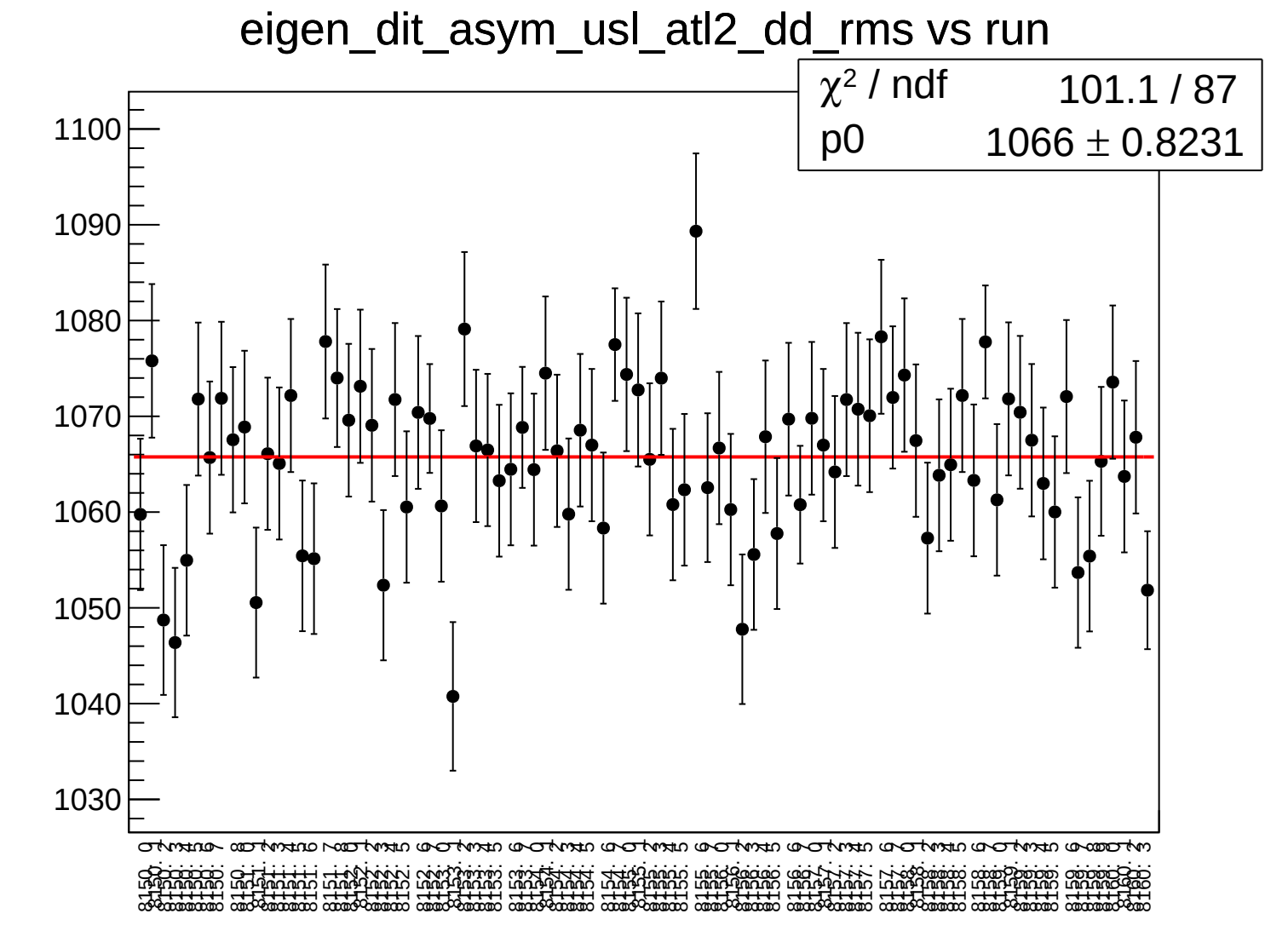

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 101.1 / 87
p0 1066 ± 0.8231
1100
1090
1080
1070
1060
1050
1040
1030

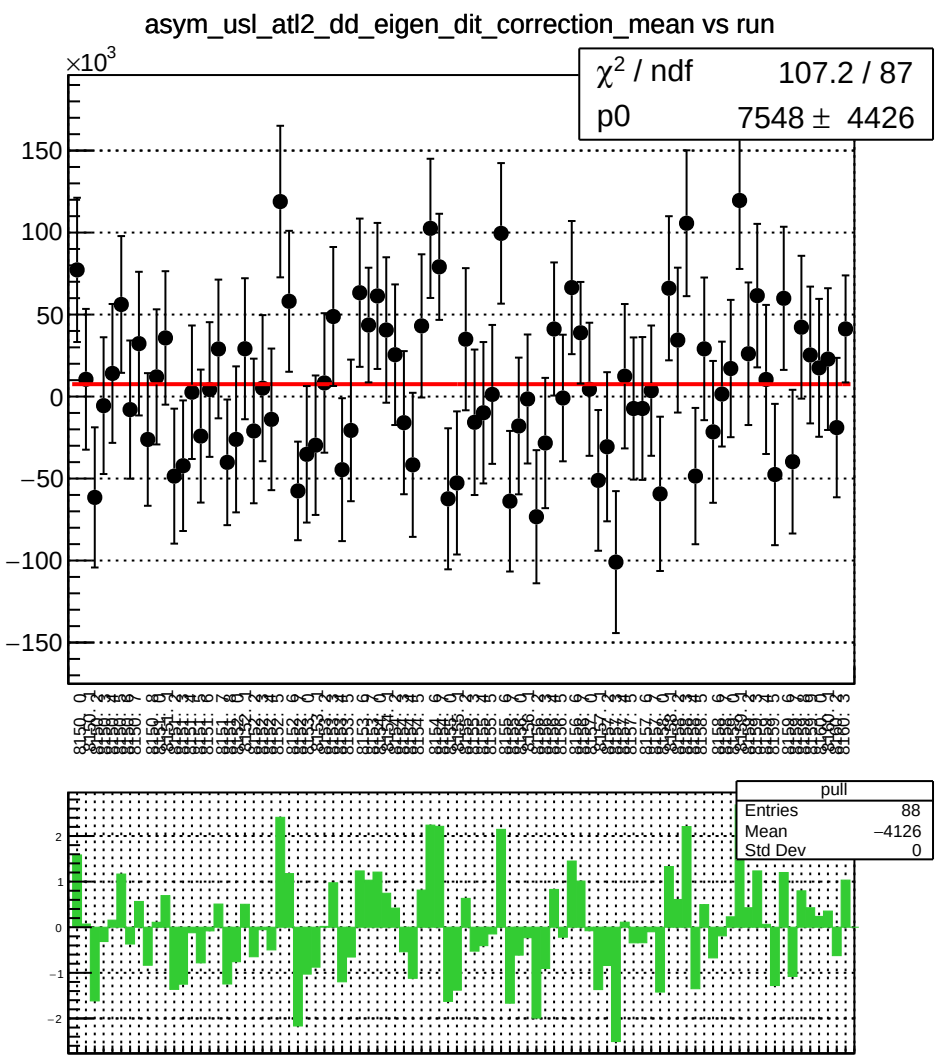

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 107.2 / 87
p0 7548 ± 4426
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −4126
Std Dev 0
2
1
0
−1
−2

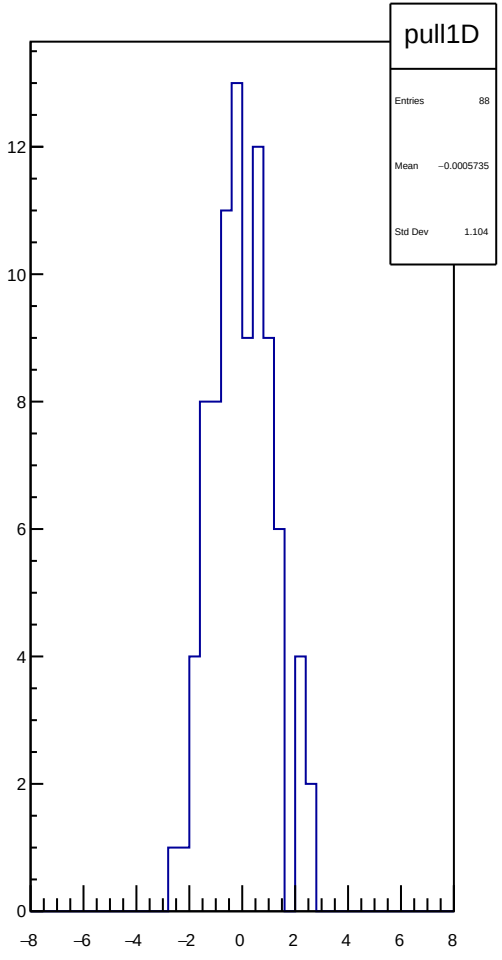

pull1D
Entries 88
Mean −0.0005735
Std Dev 1.104
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

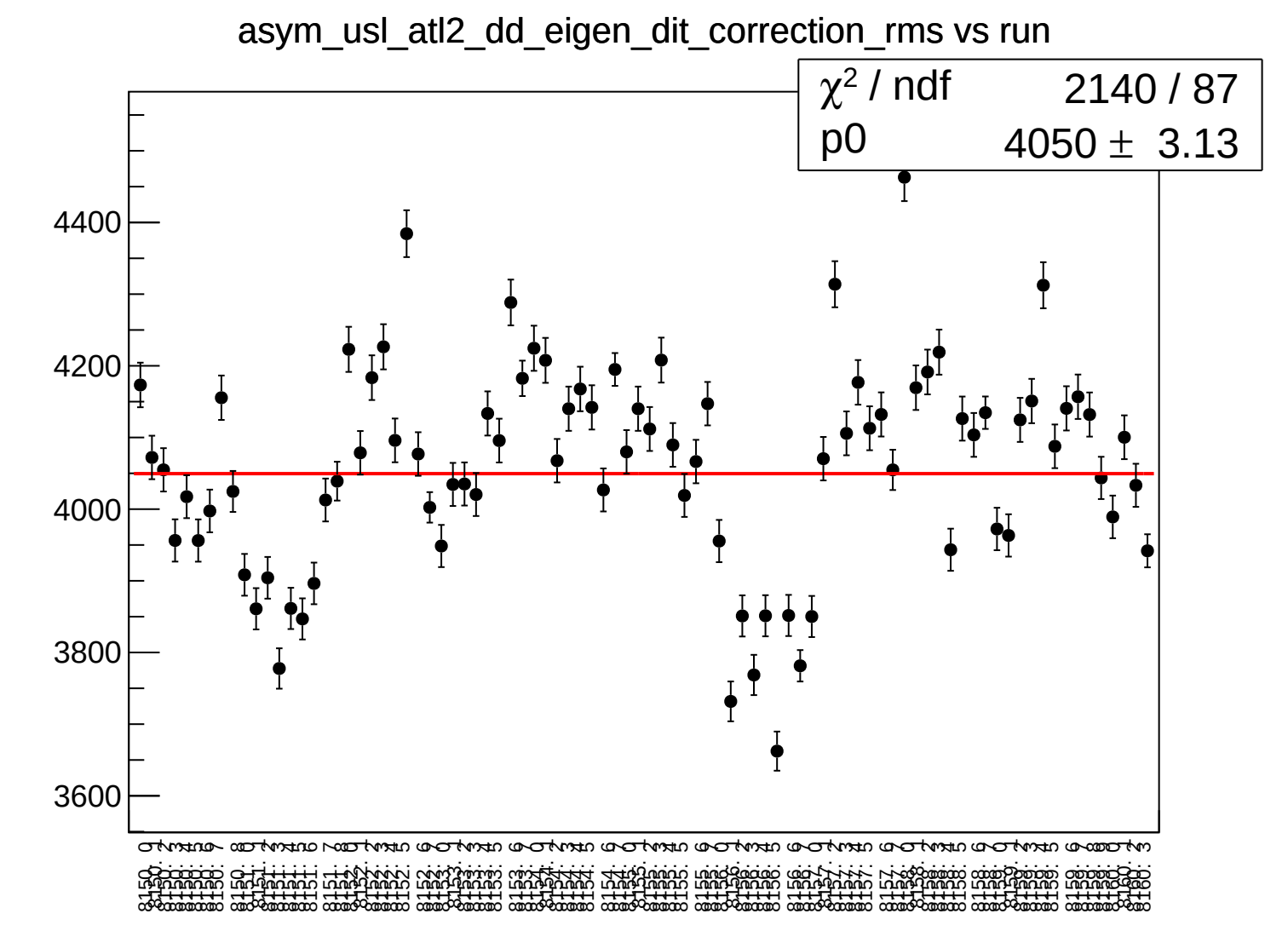

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 2140 / 87
p0 4050 ± 3.13
4400
4200
4000
3800
3600

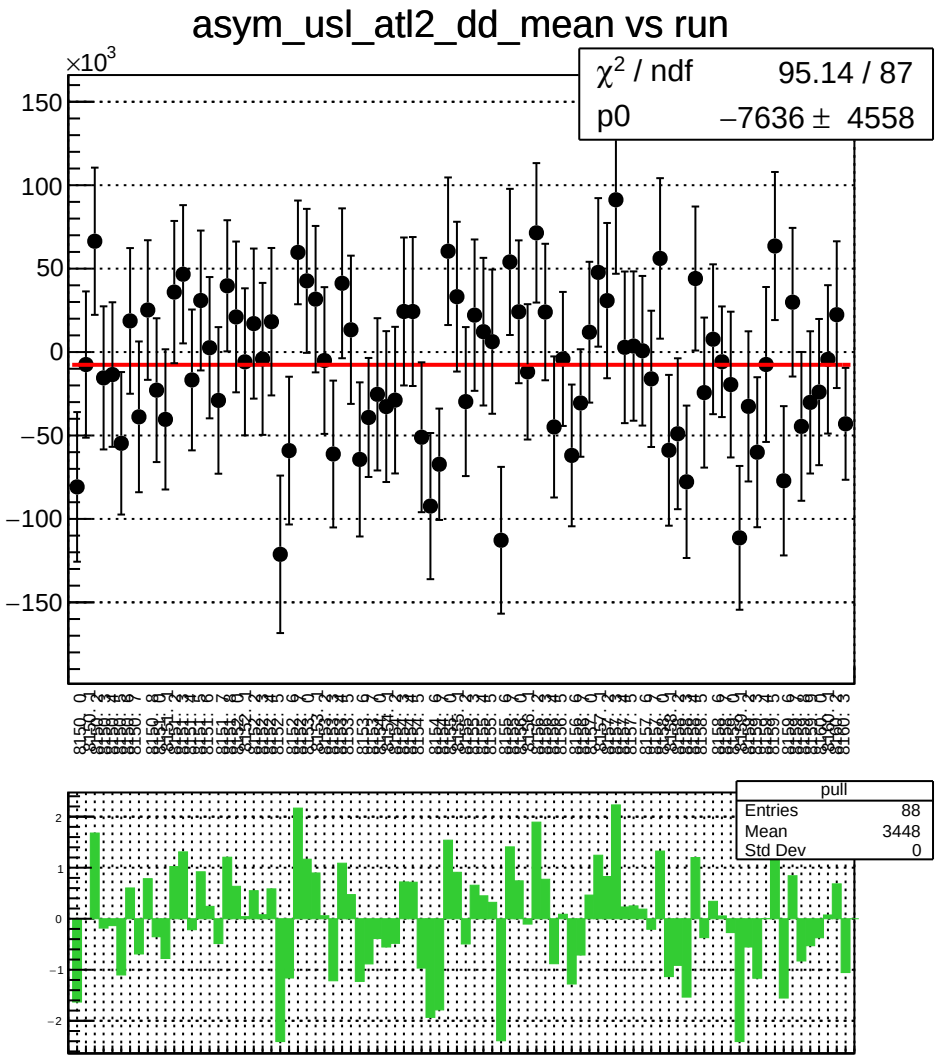

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 70.82 / 87
p0 −22.83 ± 1164
pull
Entries 88
Mean 24.78
Std Dev 72.01
pull1D
Entries 88
Mean −0.007684
Std Dev 0.897

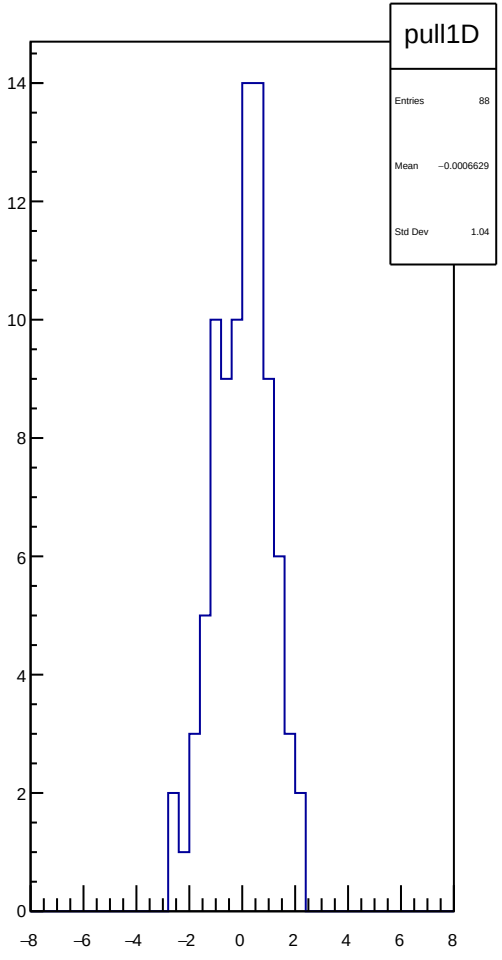

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 101.1 / 87
p0 1066 ± 0.8231
1100
1090
1080
1070
1060
1050
1040
1030

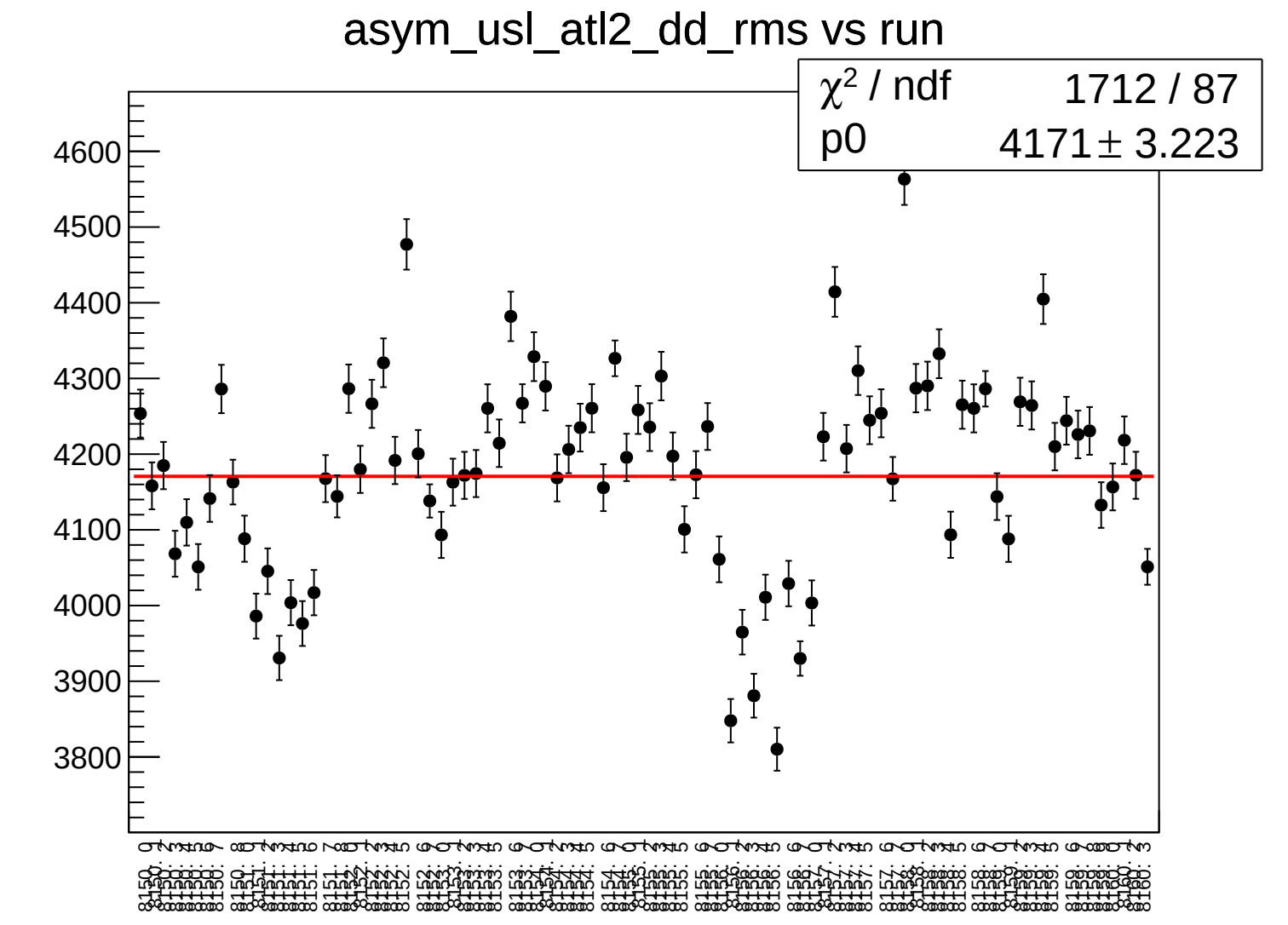

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.2 / 87
p0 7548 ± 4426
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −4126
Std Dev 0
2
1
0
−1
−2

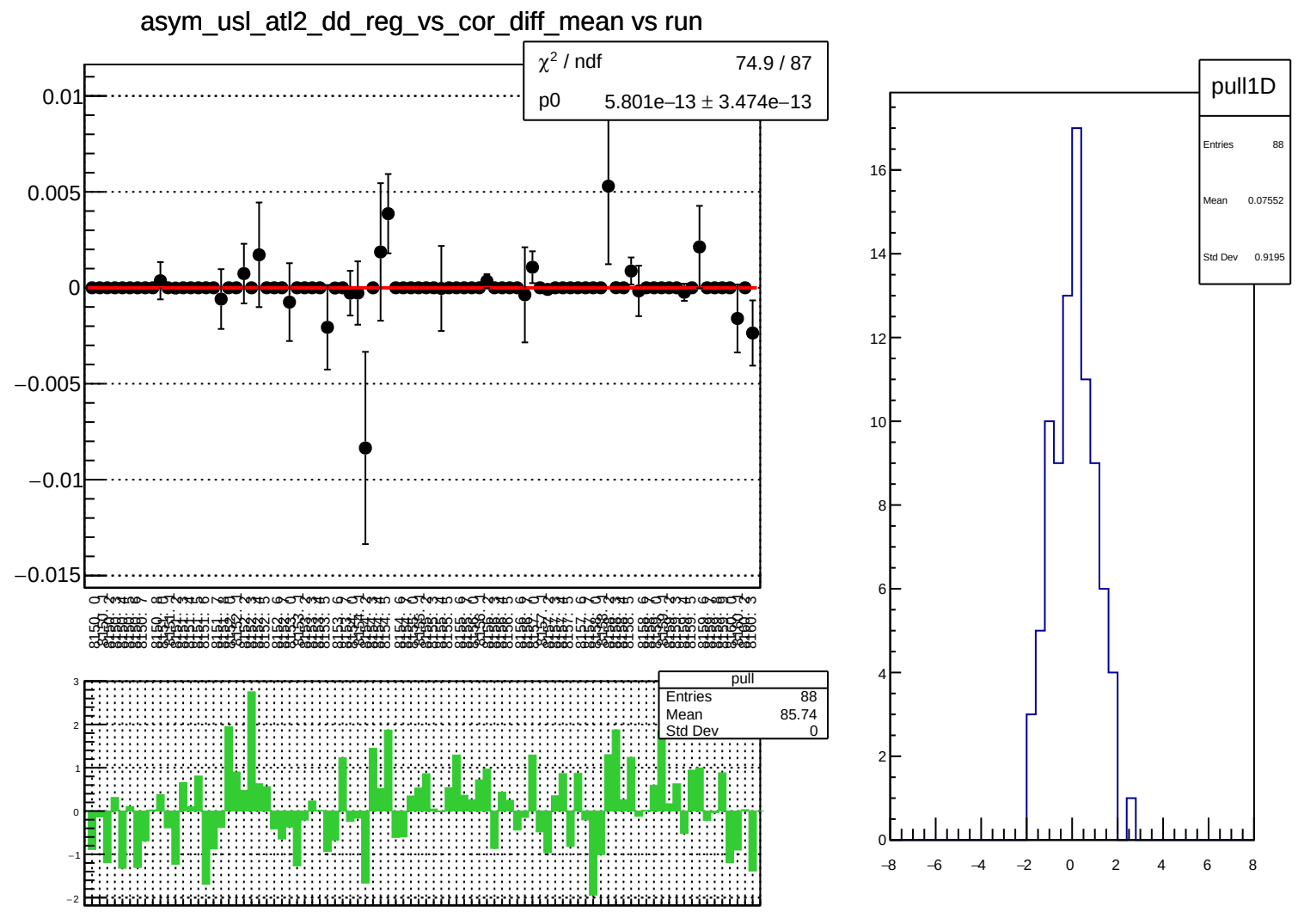

pull1D
Entries 88
Mean −0.0005735
Std Dev 1.104
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

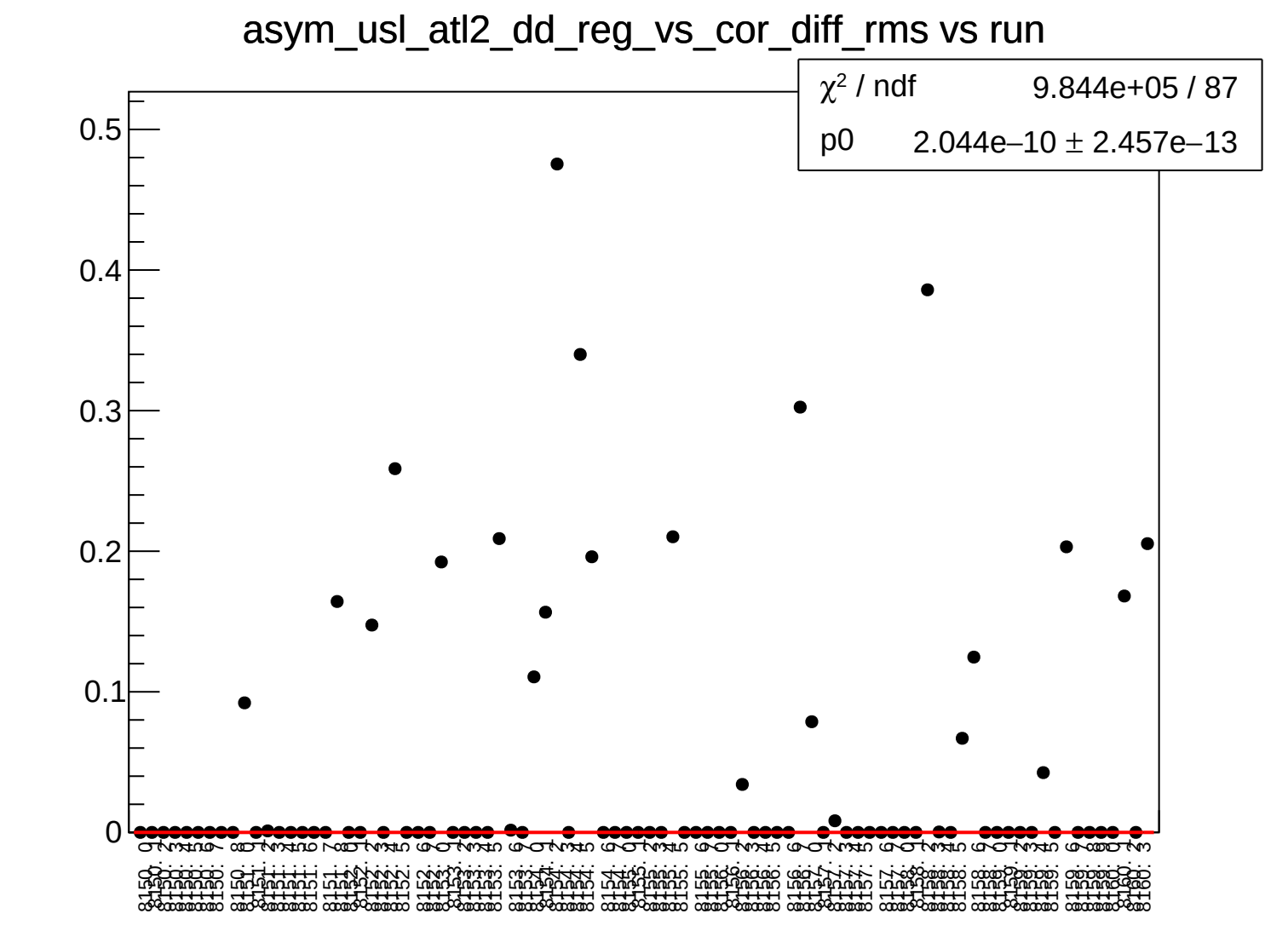

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2140 / 87
p0 4050 ± 3.13
4400
4200
4000
3800
3600

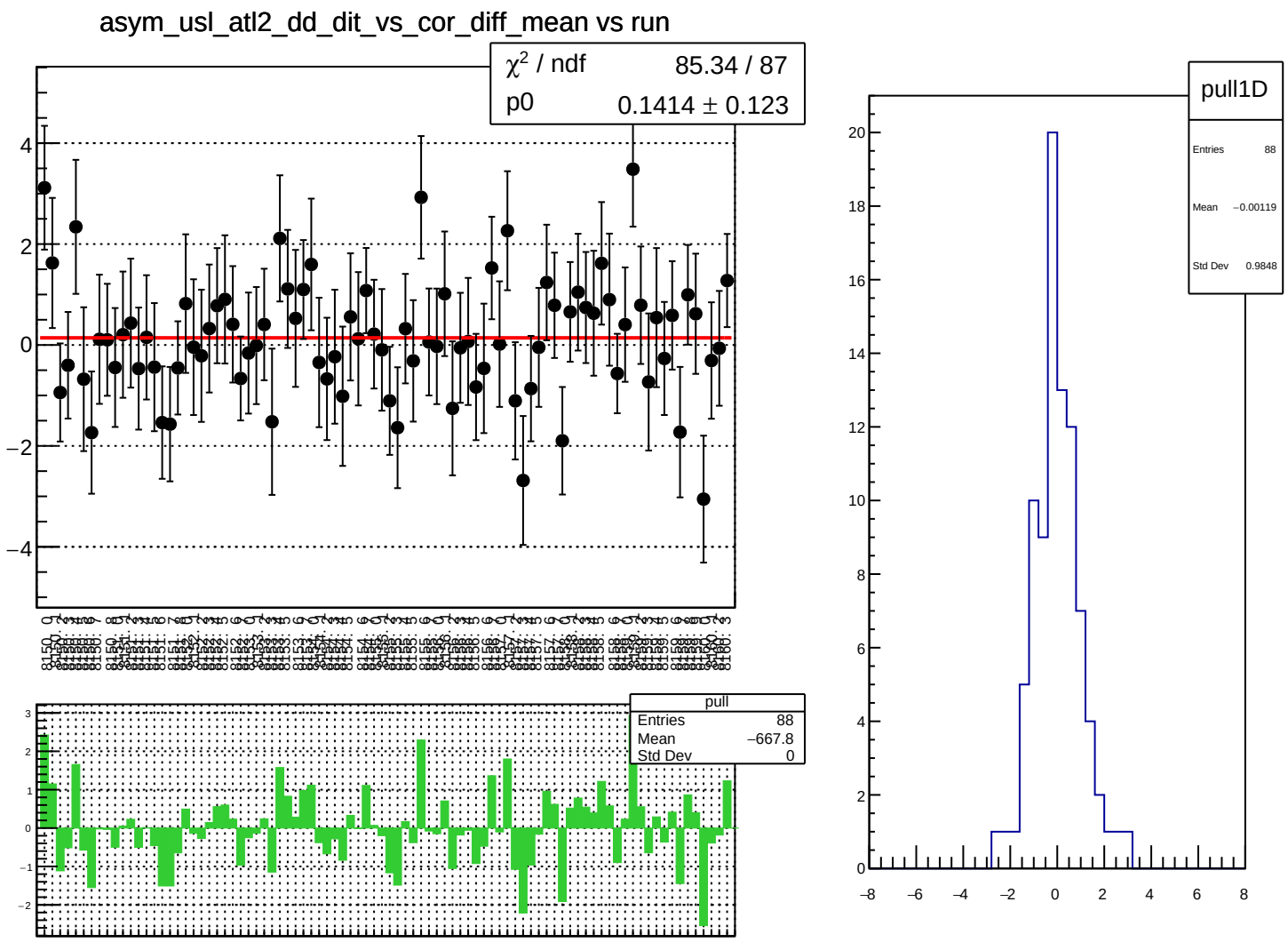

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 95.14 / 87
p0 −7636 ± 4558
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 3448
Std Dev 0
2
1
0
−1
−2

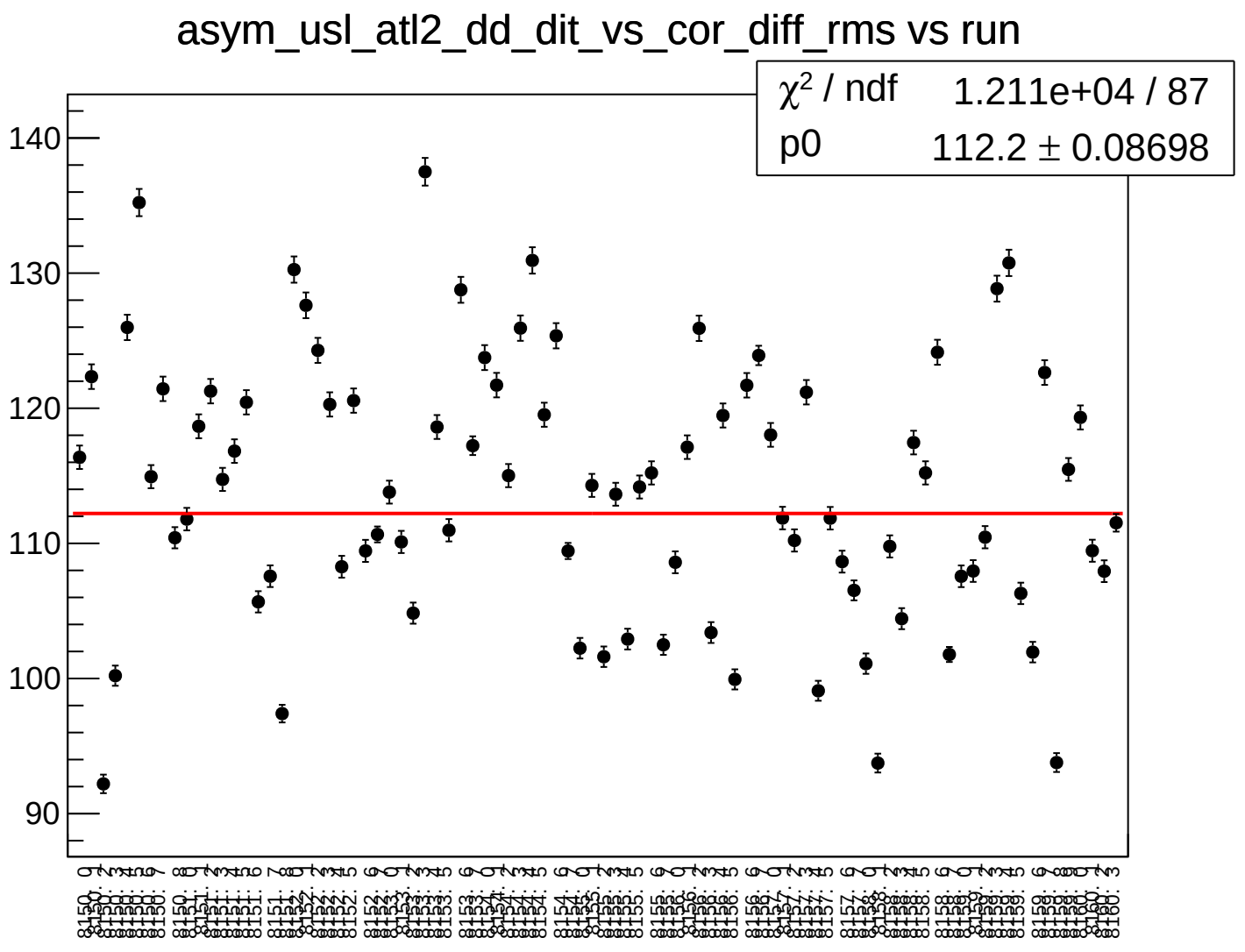

pull1D
Entries 88
Mean −0.0006629
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

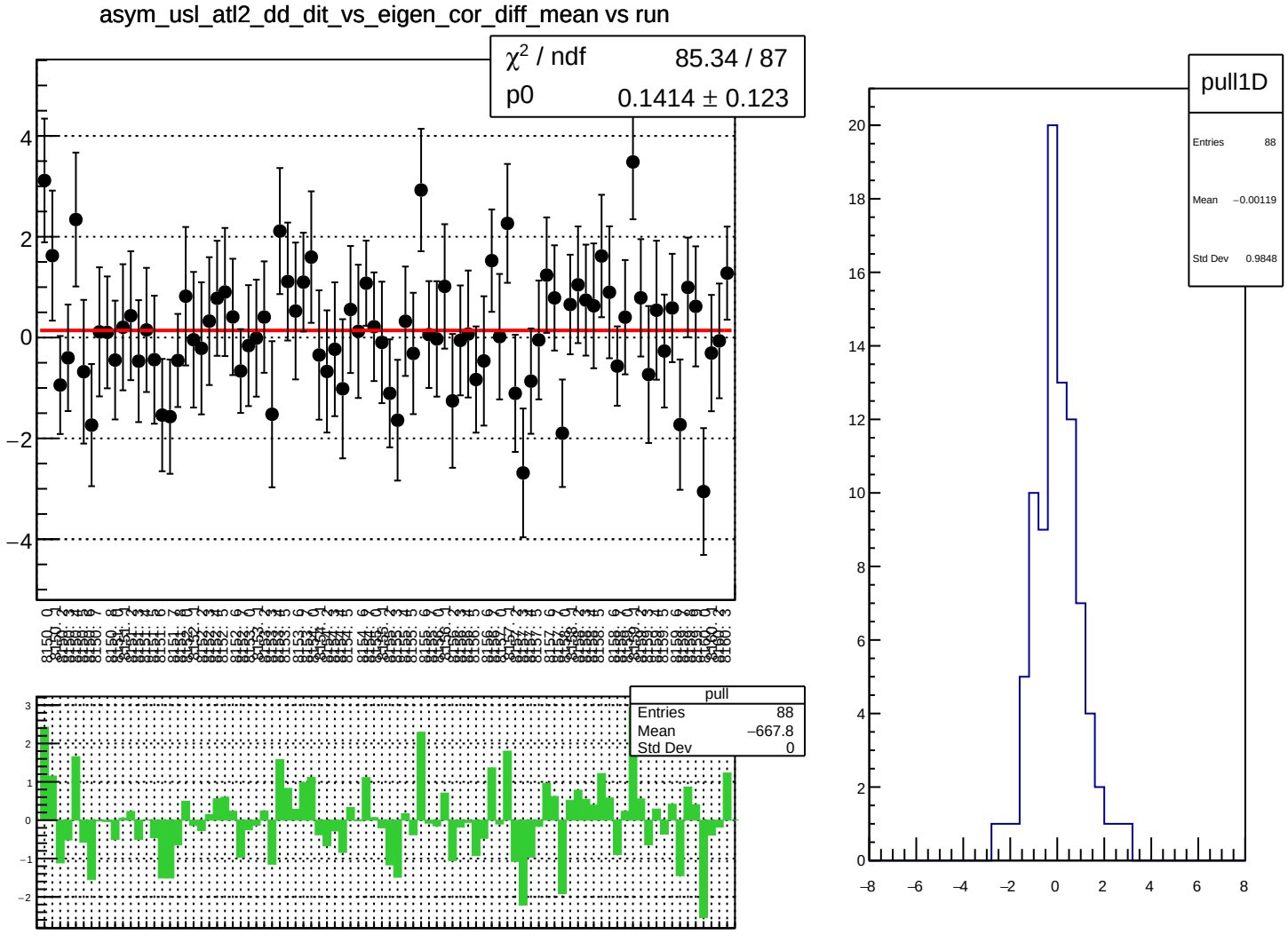

asym_usl_atl2_dd_rms vs run
χ² / ndf 1712 / 87
p0 4171 ± 3.223
4600
4500
4400
4300
4200
4100
4000
3900
3800

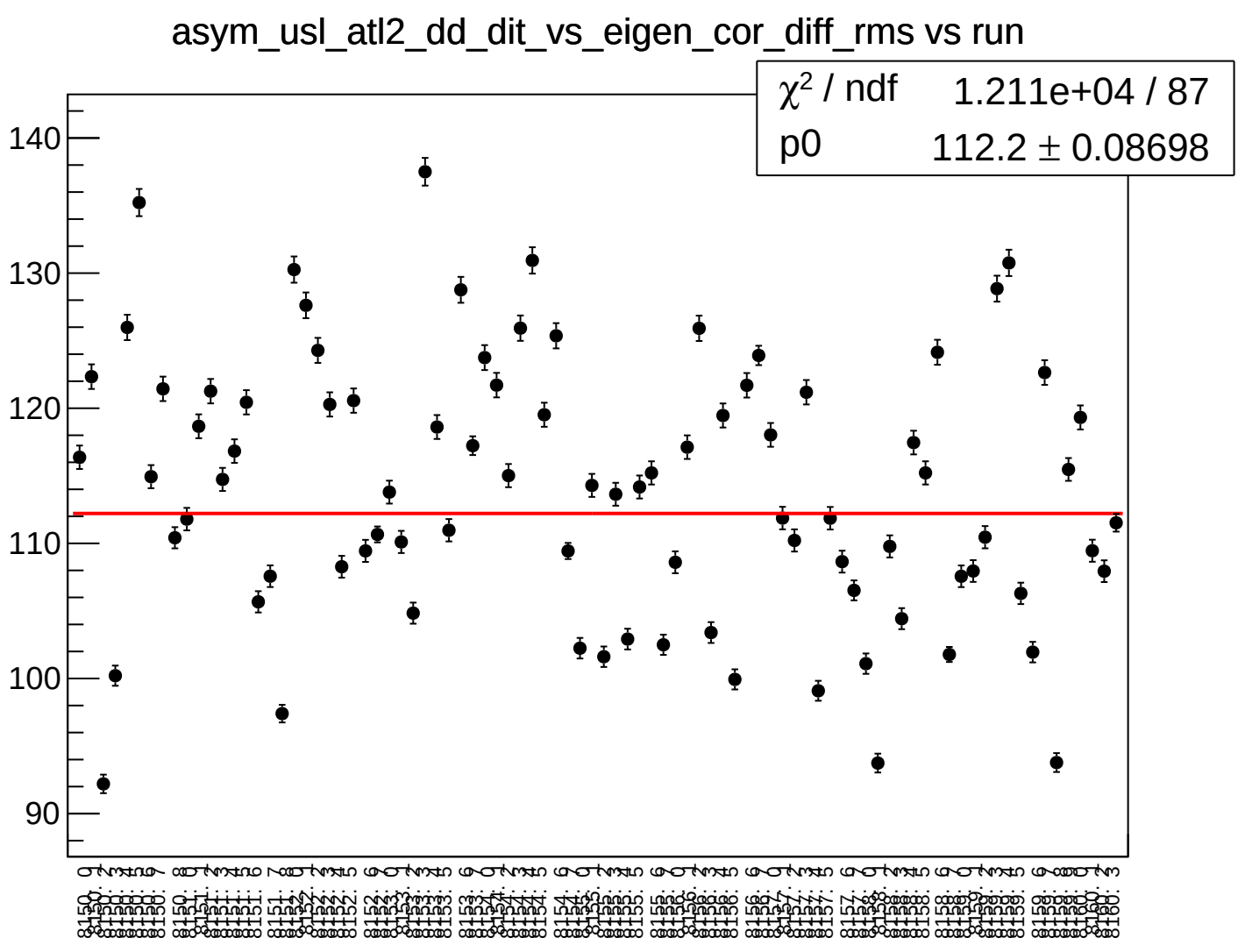

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.9 / 87
p0 5.801e−13 ± 3.474e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 85.74
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.07552
Std Dev 0.9195
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

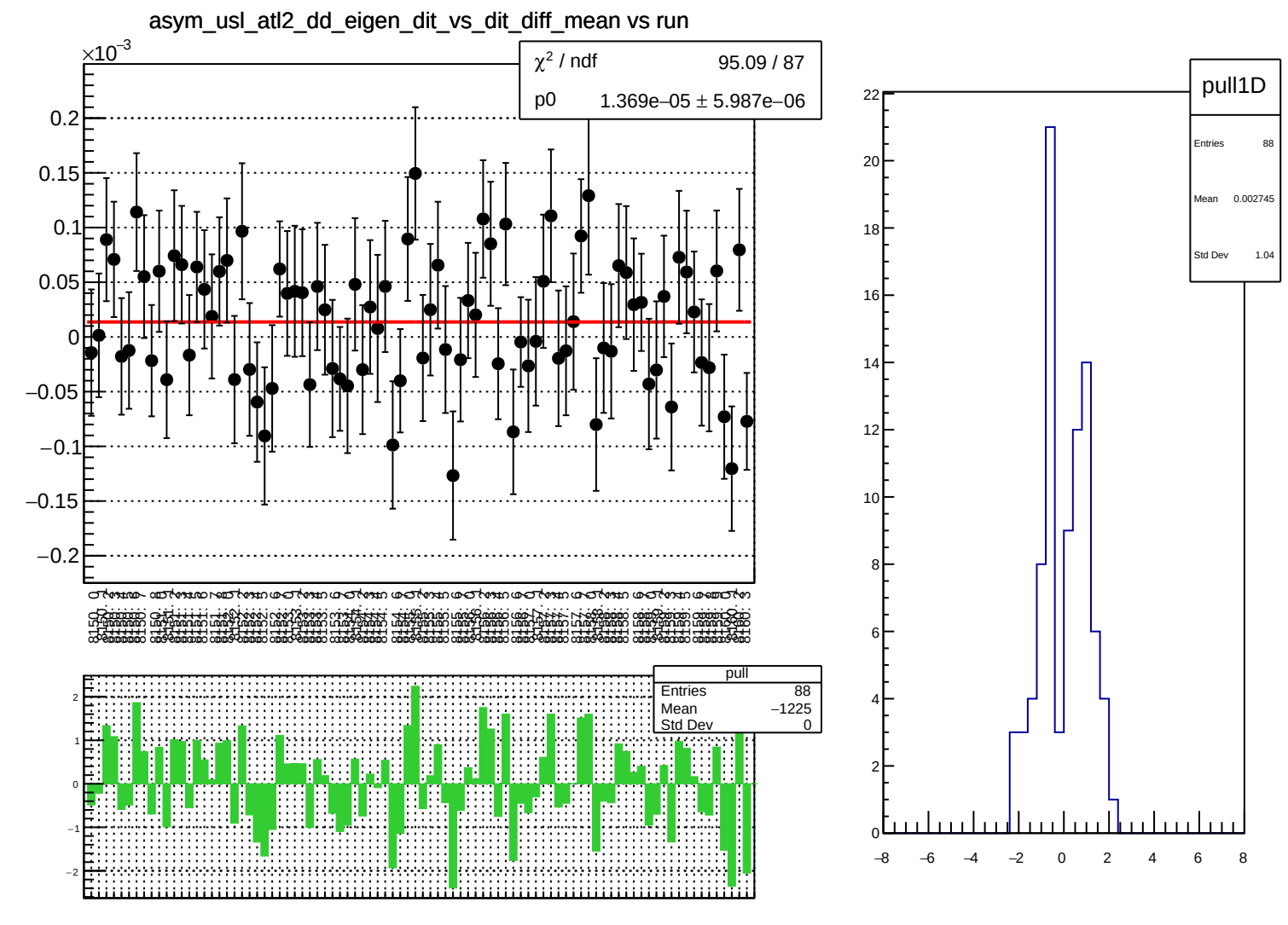

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.844e+05 / 87
p0 2.044e−10 ± 2.457e−13
0.5
0.4
0.3
0.2
0.1
0

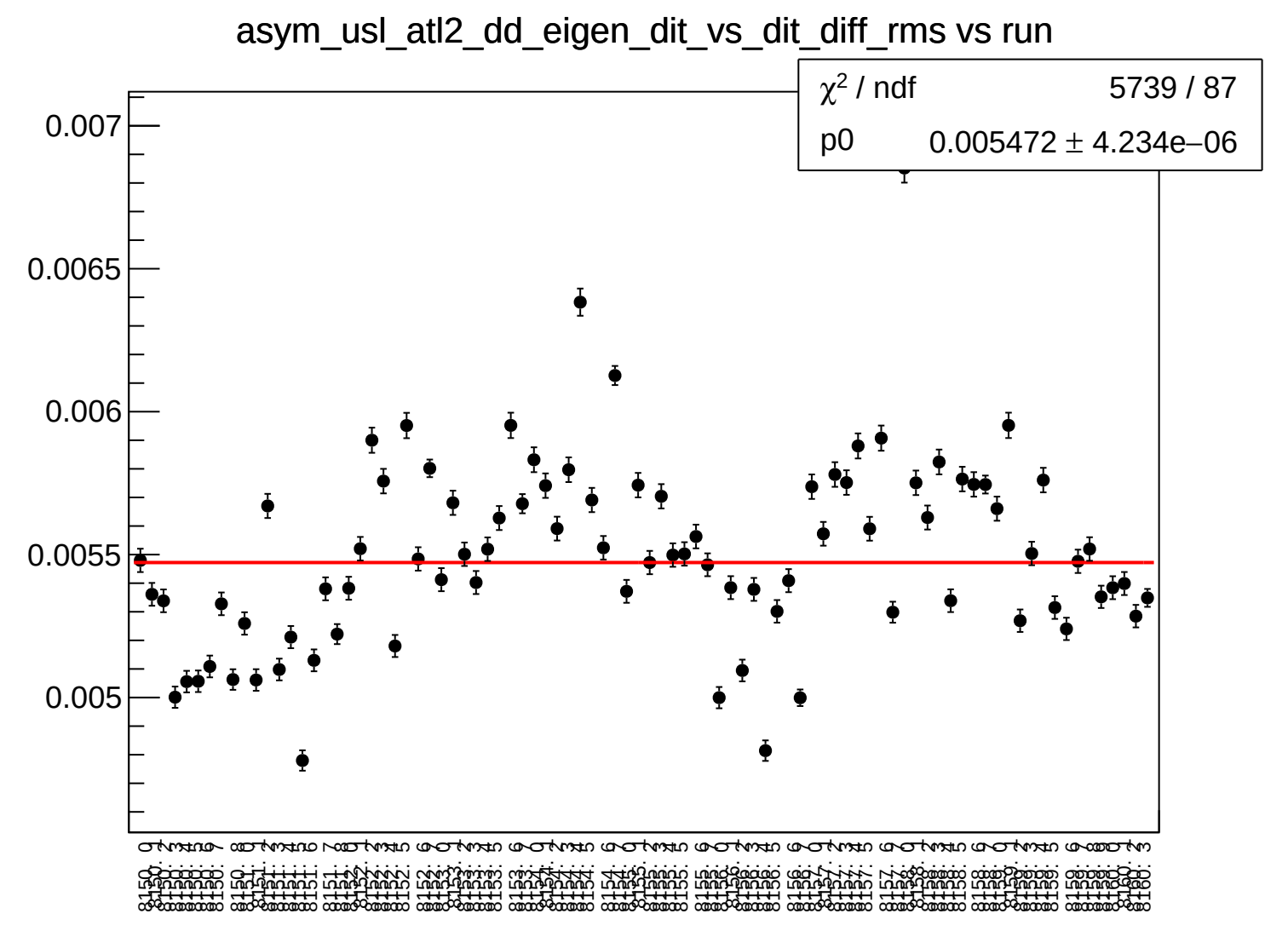

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.34 / 87
p0 0.1414 ± 0.123
pull
Entries 88
Mean −667.8
Std Dev 0
pull1D
Entries 88
Mean −0.00119
Std Dev 0.9848

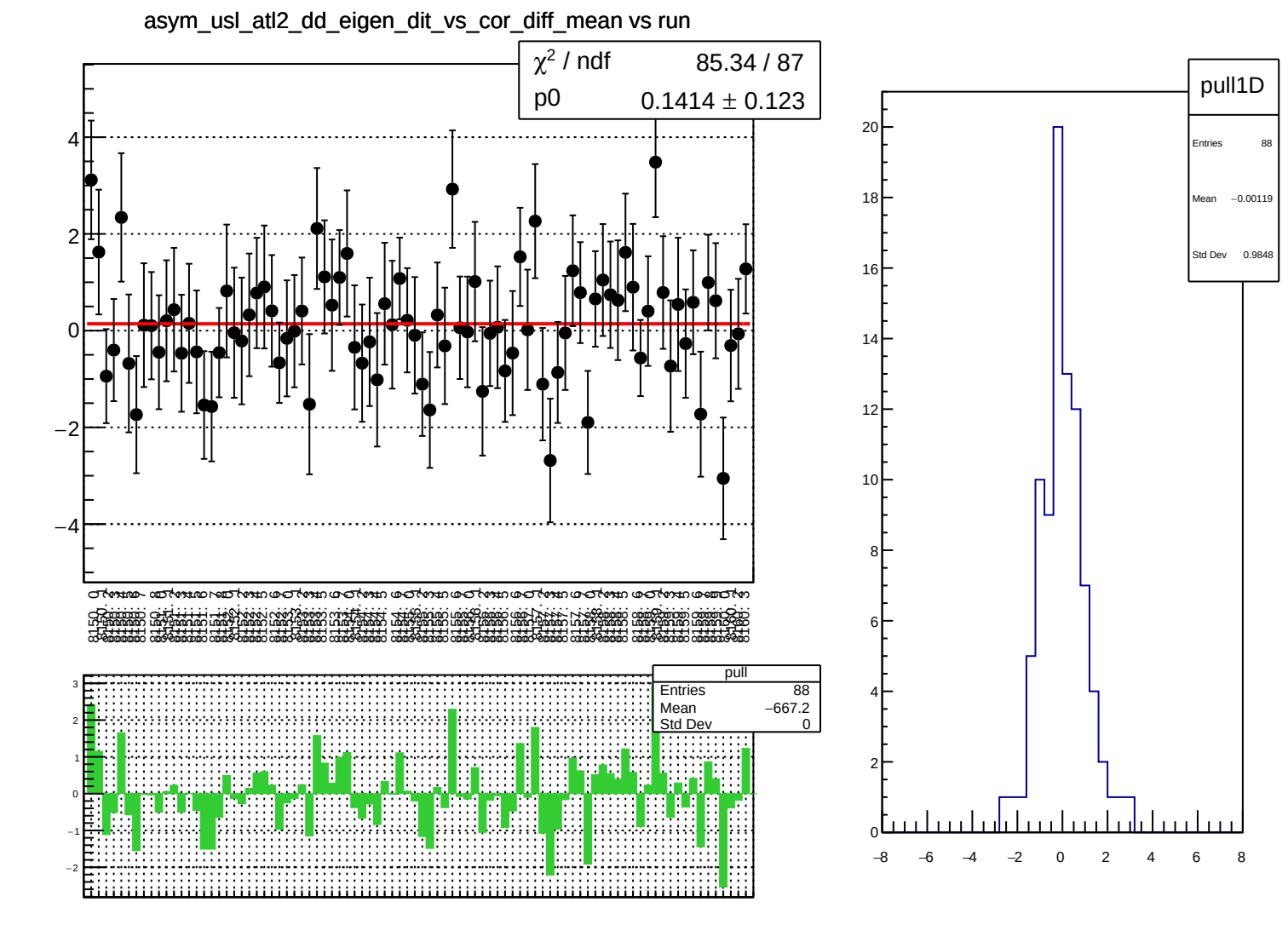

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.211e+04 / 87
p0 112.2 ± 0.08698
140
130
120
110
100
90

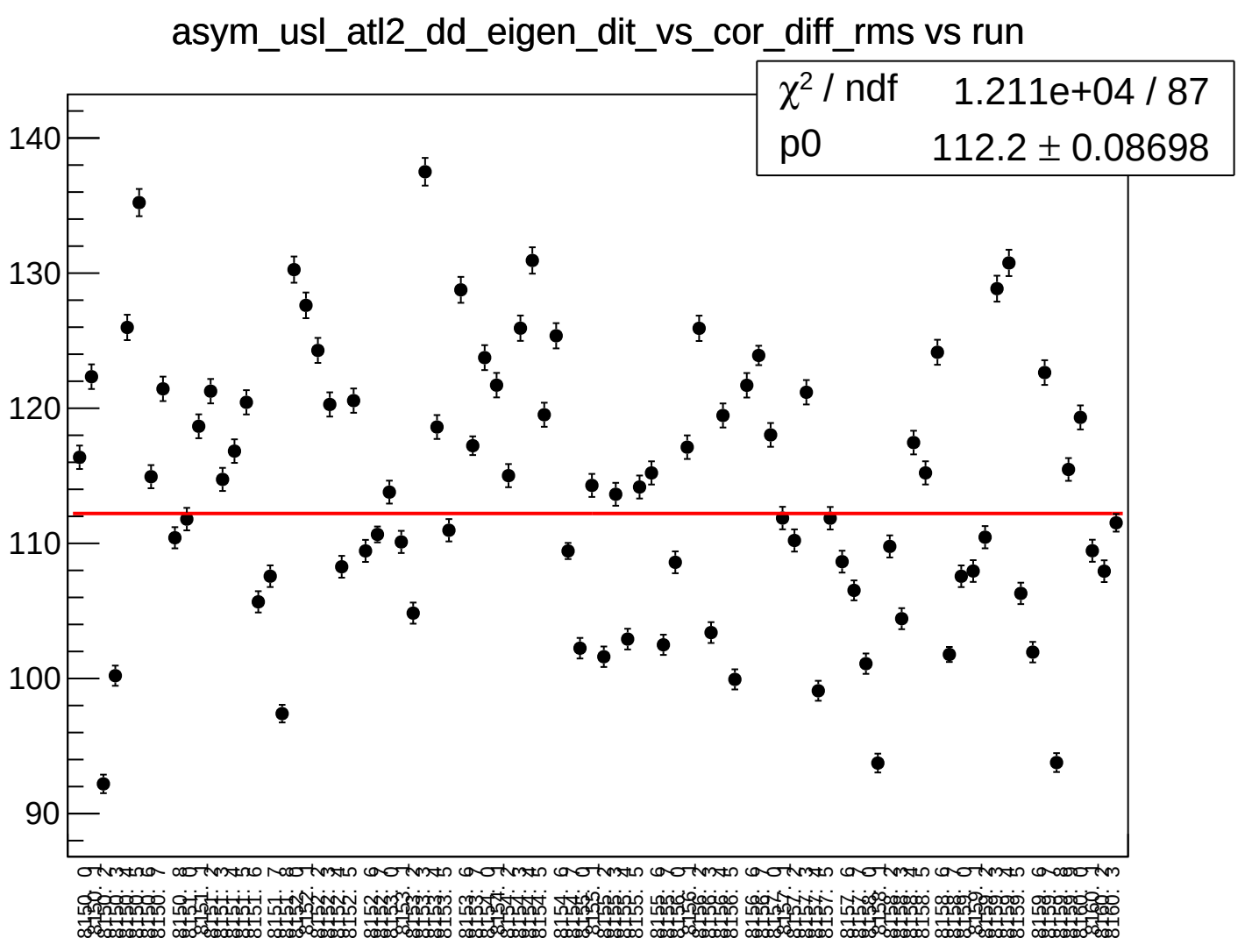

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.34 / 87
p0 0.1414 ± 0.123
pull
Entries 88
Mean −667.8
Std Dev 0
pull1D
Entries 88
Mean −0.00119
Std Dev 0.9848

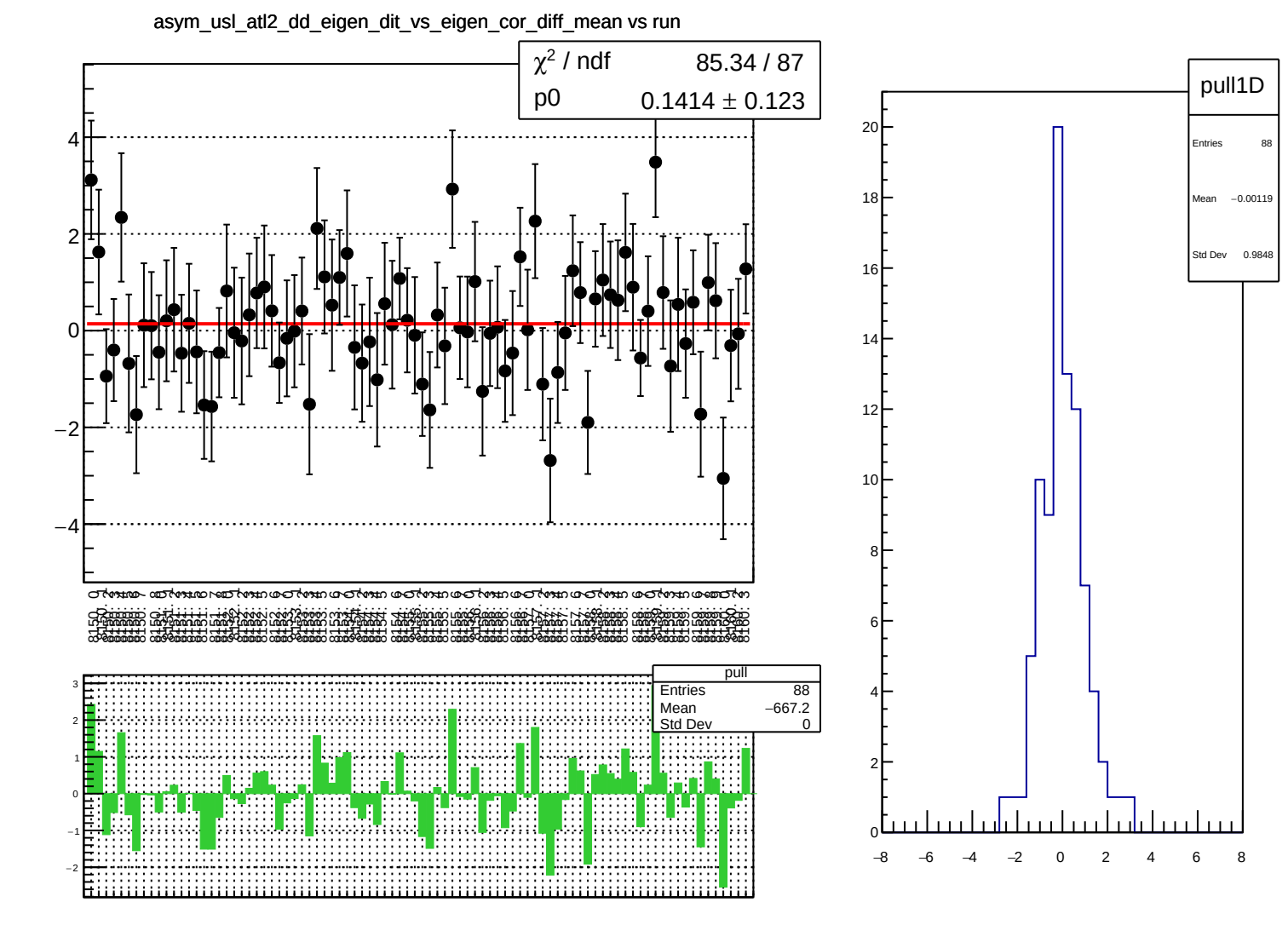

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.211e+04 / 87
p0 112.2 ± 0.08698
140
130
120
110
100
90

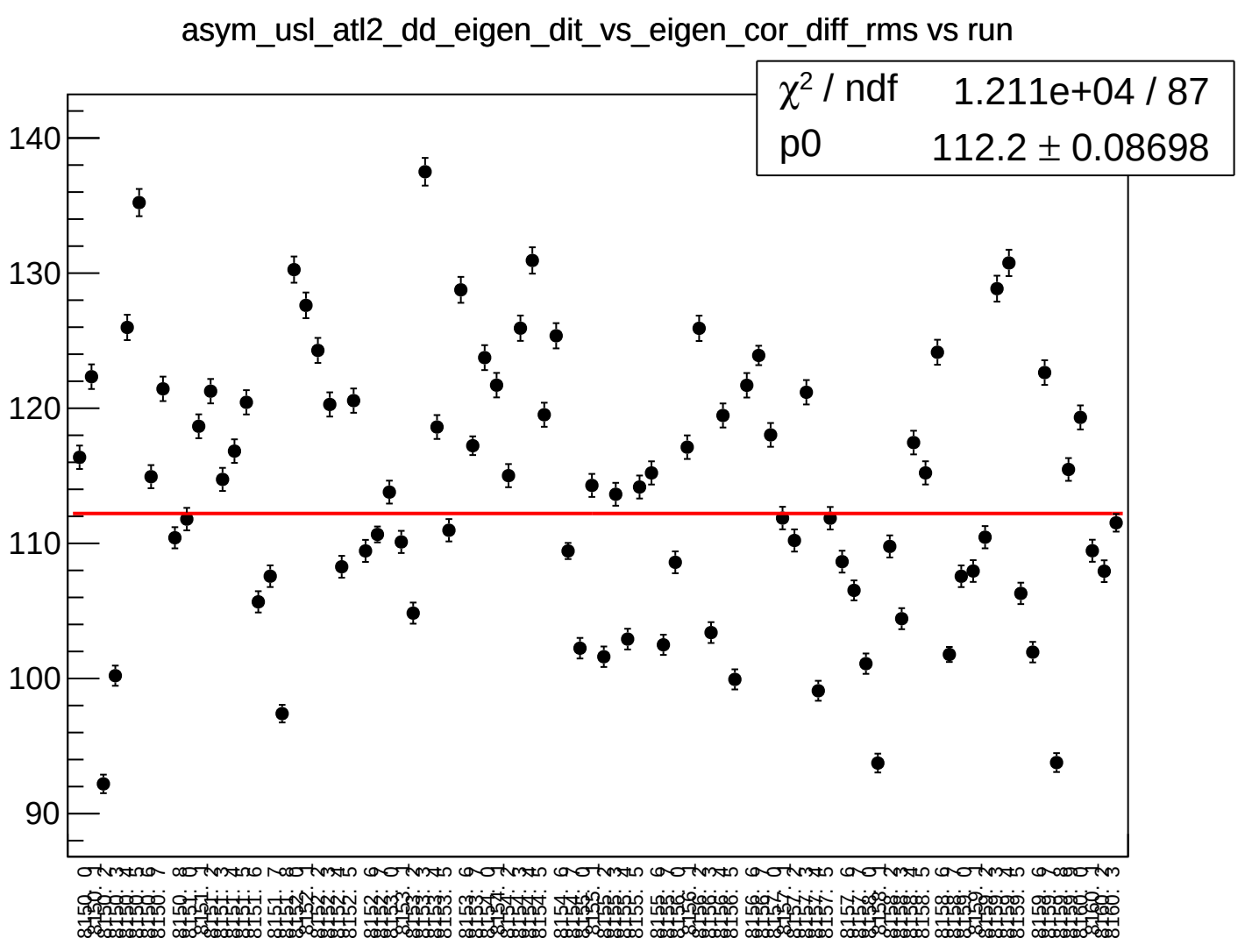

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.09 / 87
p0 1.369e−05 ± 5.987e−06
pull
Entries 88
Mean −1225
Std Dev 0
pull1D
Entries 88
Mean 0.002745
Std Dev 1.04

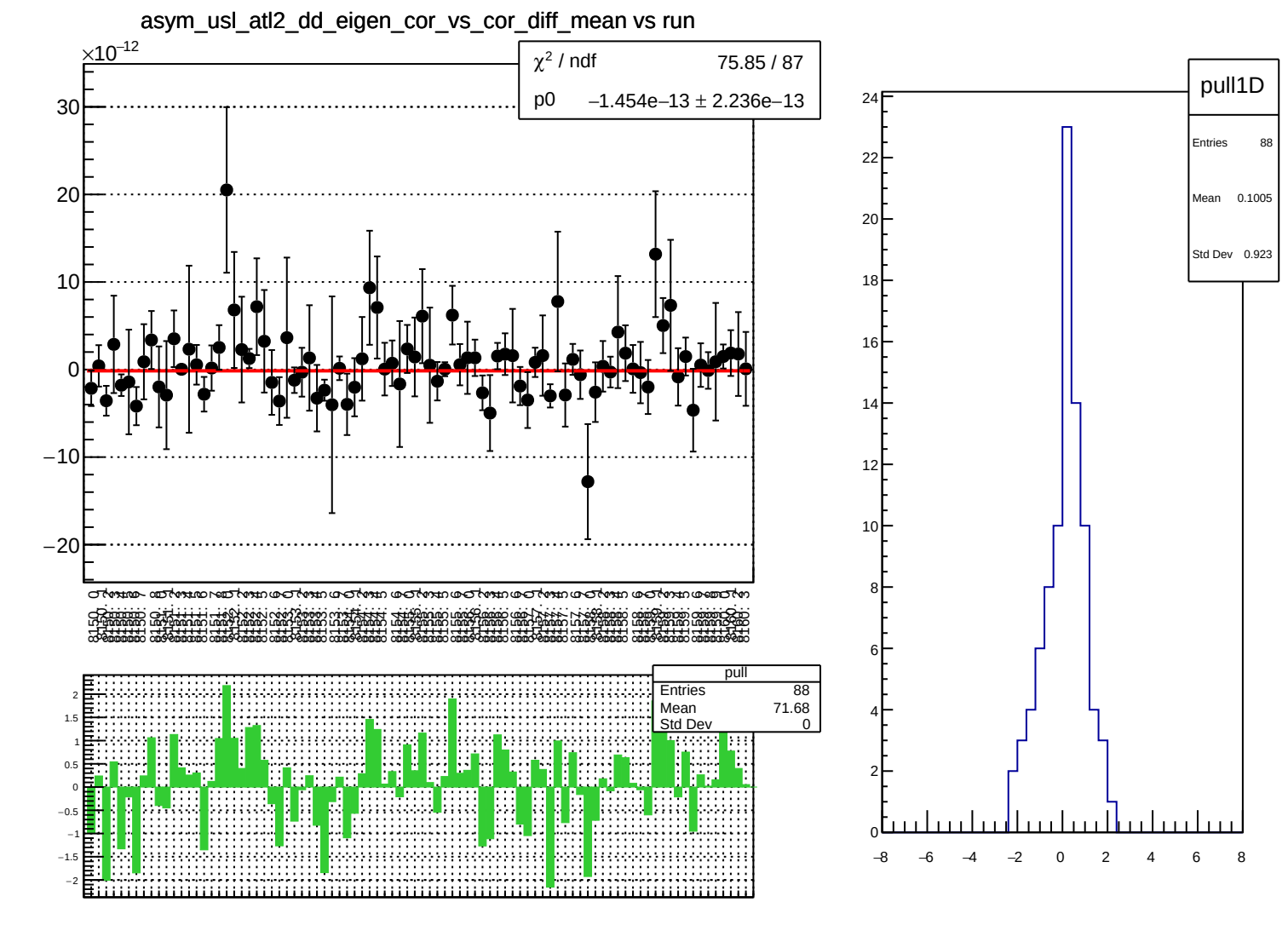

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5739 / 87
p0 0.005472 ± 4.234e−06
0.007
0.0065
0.006
0.0055
0.005

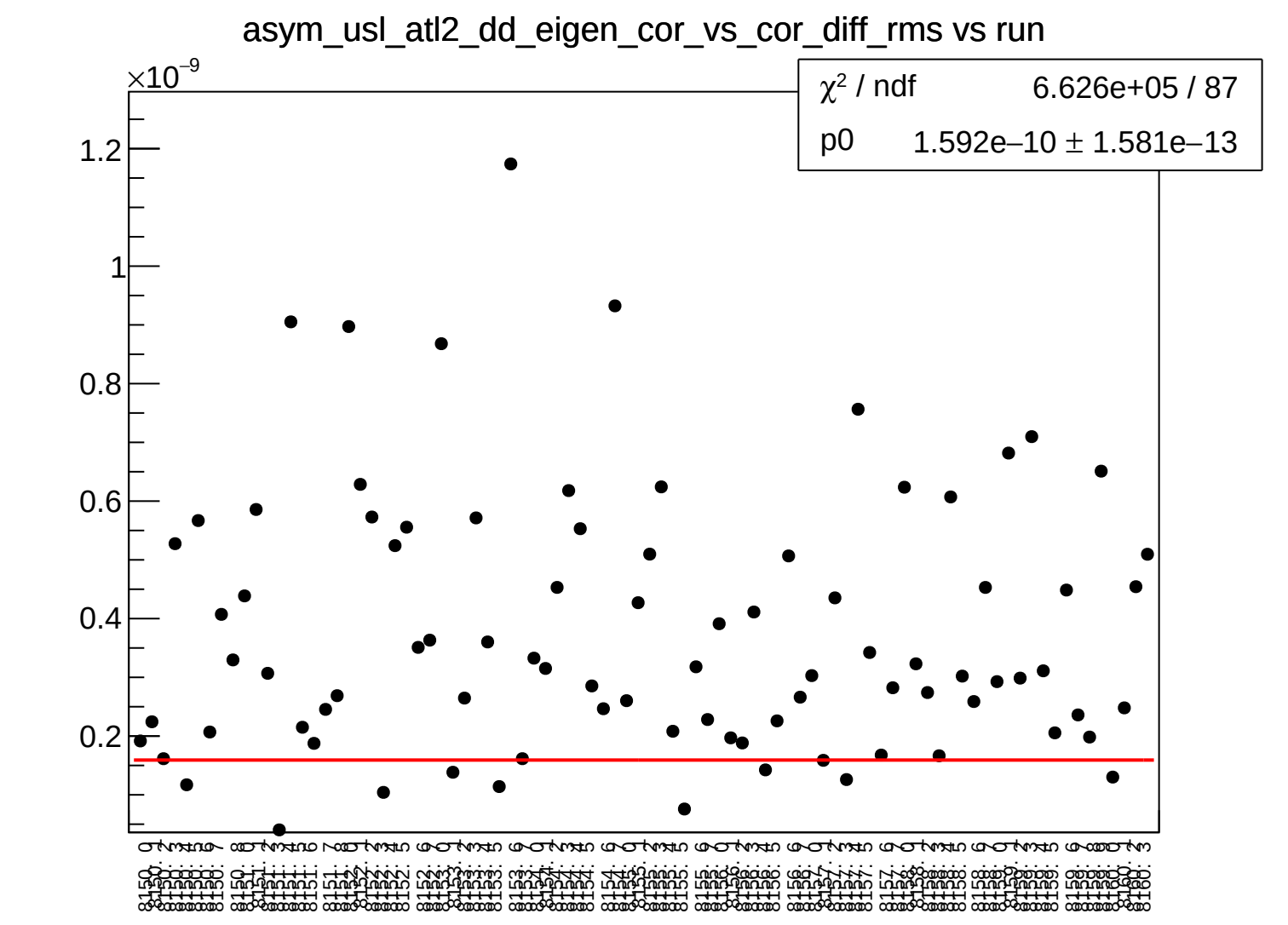

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.34 / 87
p0 0.1414 ± 0.123
pull
Entries 88
Mean −667.2
Std Dev 0
pull1D
Entries 88
Mean −0.00119
Std Dev 0.9848

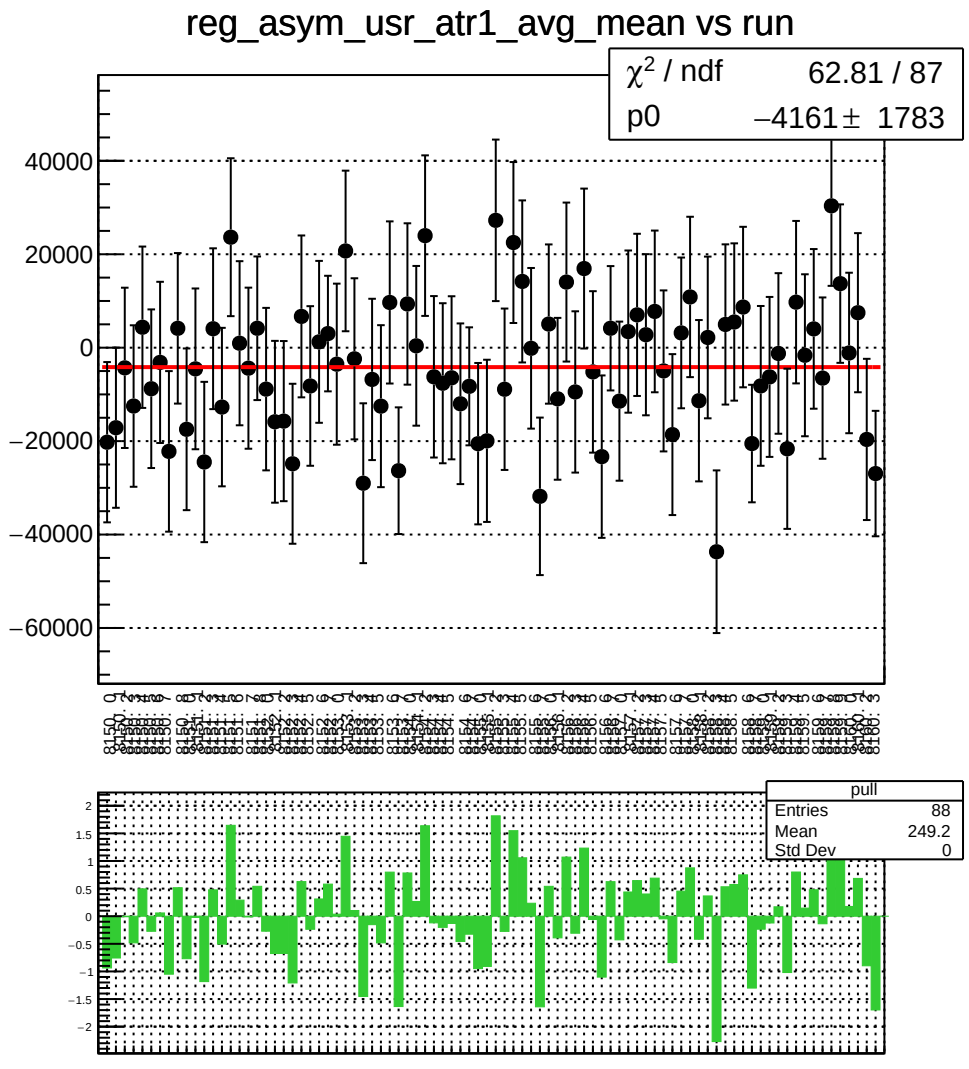

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.211e+04 / 87
p0 112.2 ± 0.08698
140
130
120
110
100
90

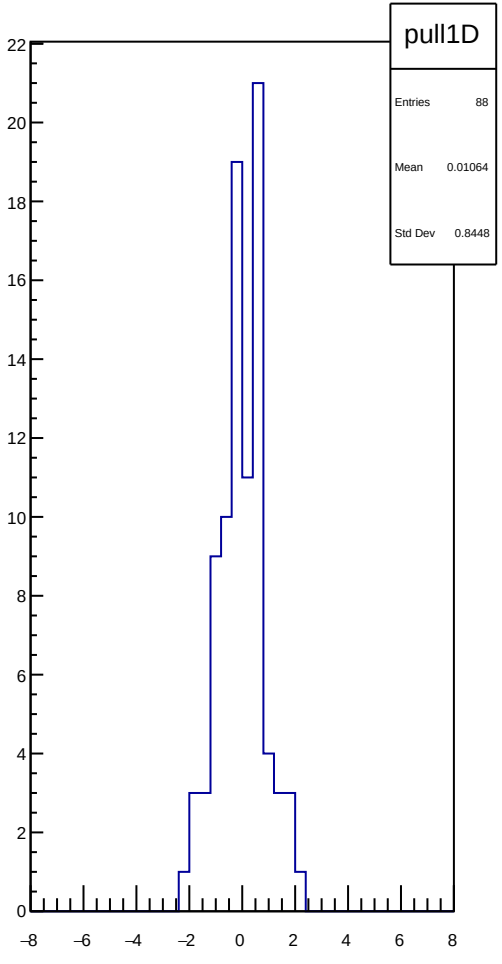

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.34 / 87
p0 0.1414 ± 0.123
pull
Entries 88
Mean −667.2
Std Dev 0
pull1D
Entries 88
Mean −0.00119
Std Dev 0.9848

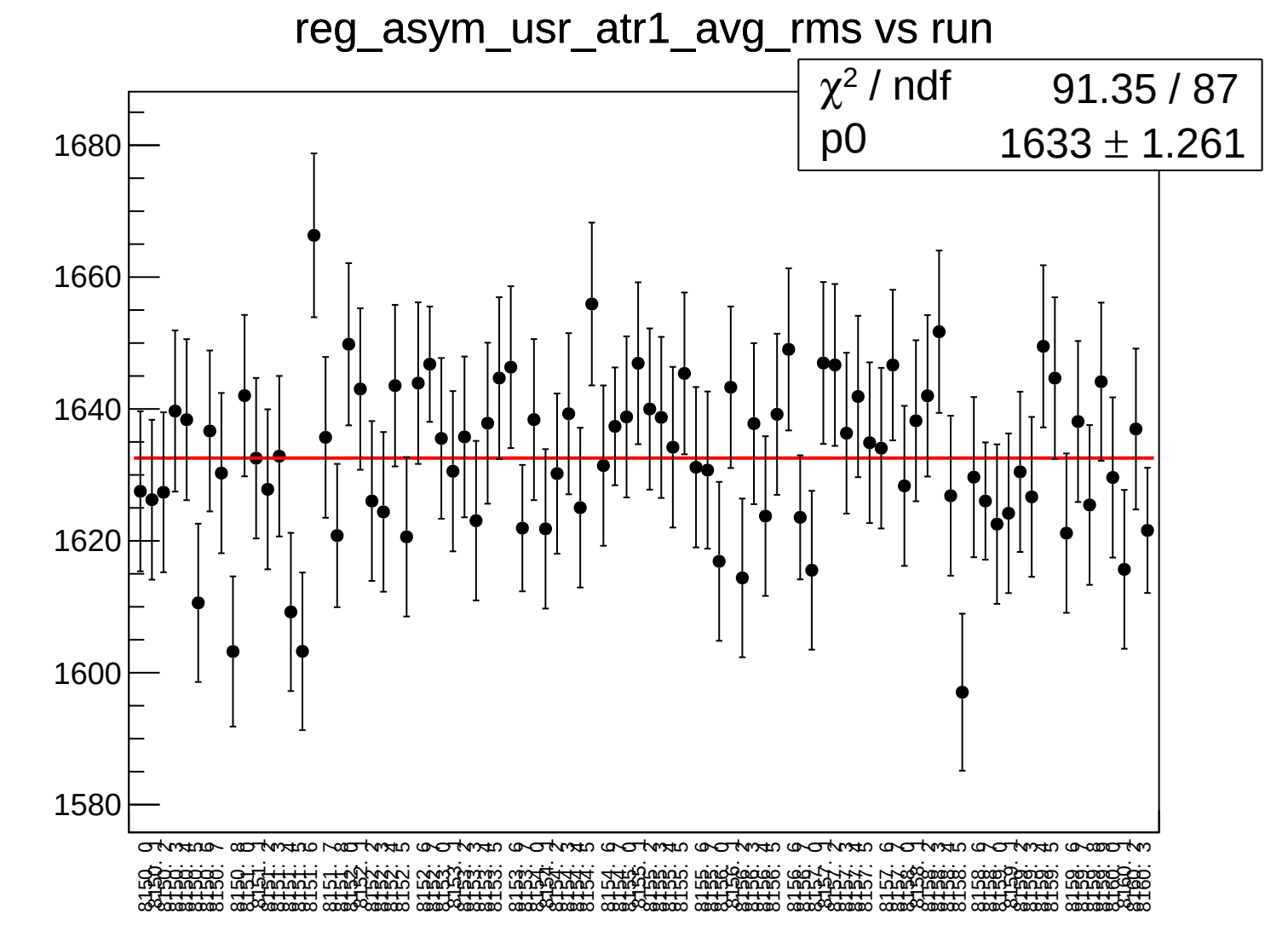

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.211e+04 / 87
p0 112.2 ± 0.08698
140
130
120
110
100
90

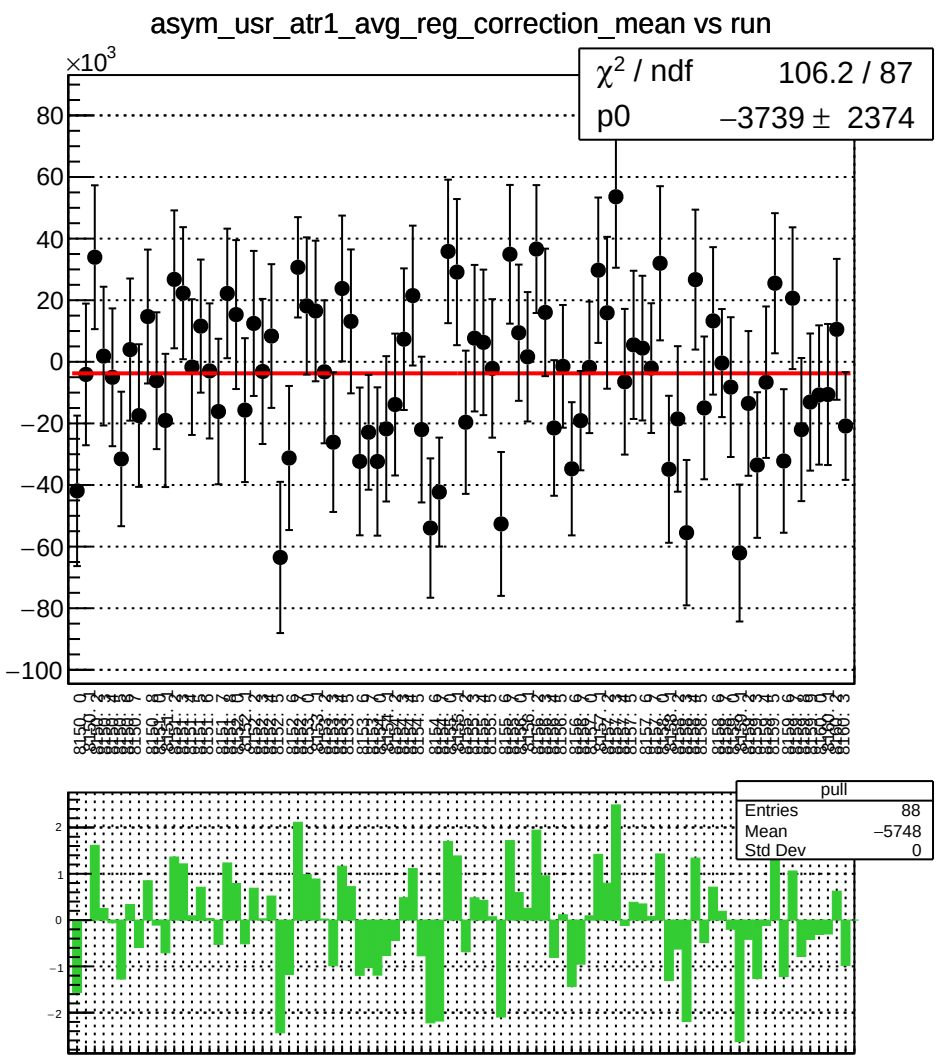

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 75.85 / 87
p0 −1.454e−13 ± 2.236e−13
pull
Entries 88
Mean 71.68
Std Dev 0
pull1D
Entries 88
Mean 0.1005
Std Dev 0.923

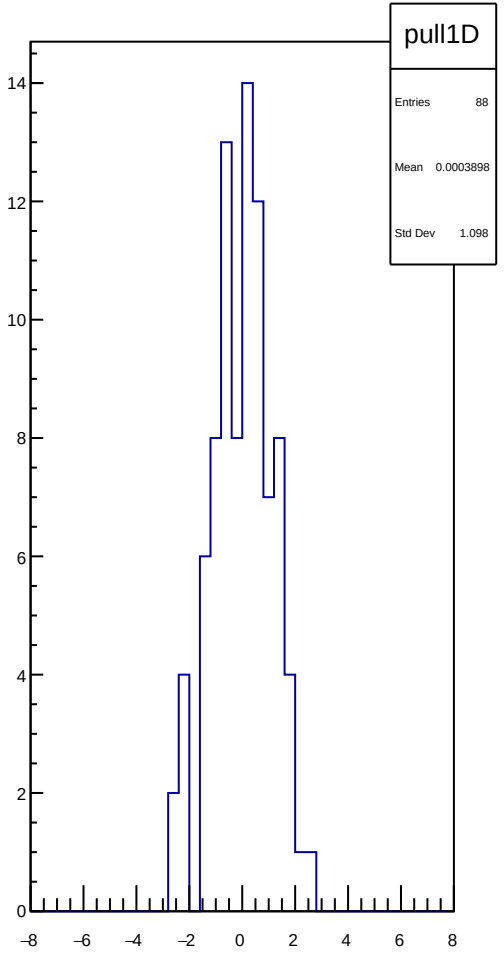

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.626e+05 / 87
p0 1.592e−10 ± 1.581e−13
1.2
1
0.8
0.6
0.4
0.2

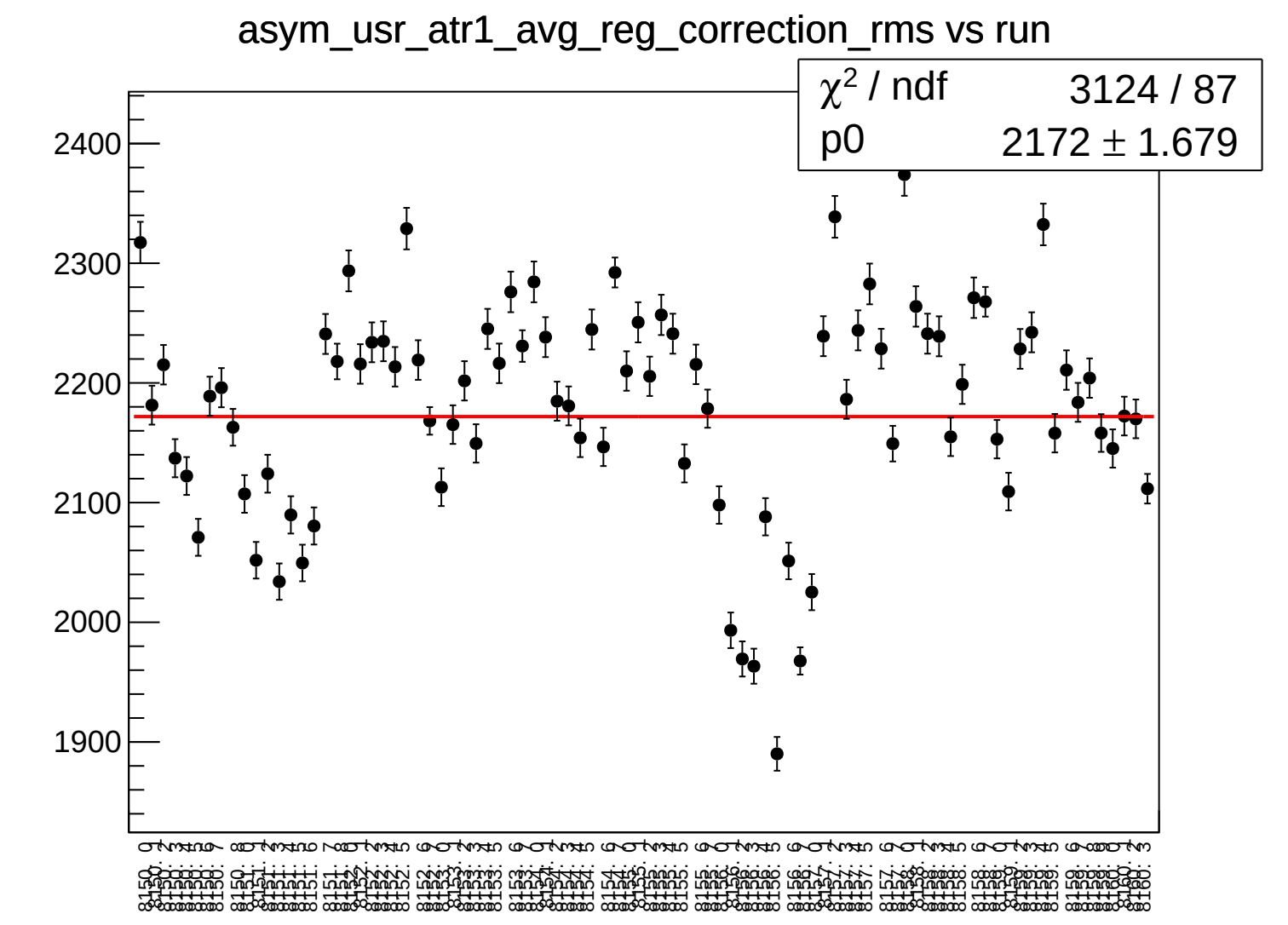

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 62.81 / 87
p0 −4161 ± 1783
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 249.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

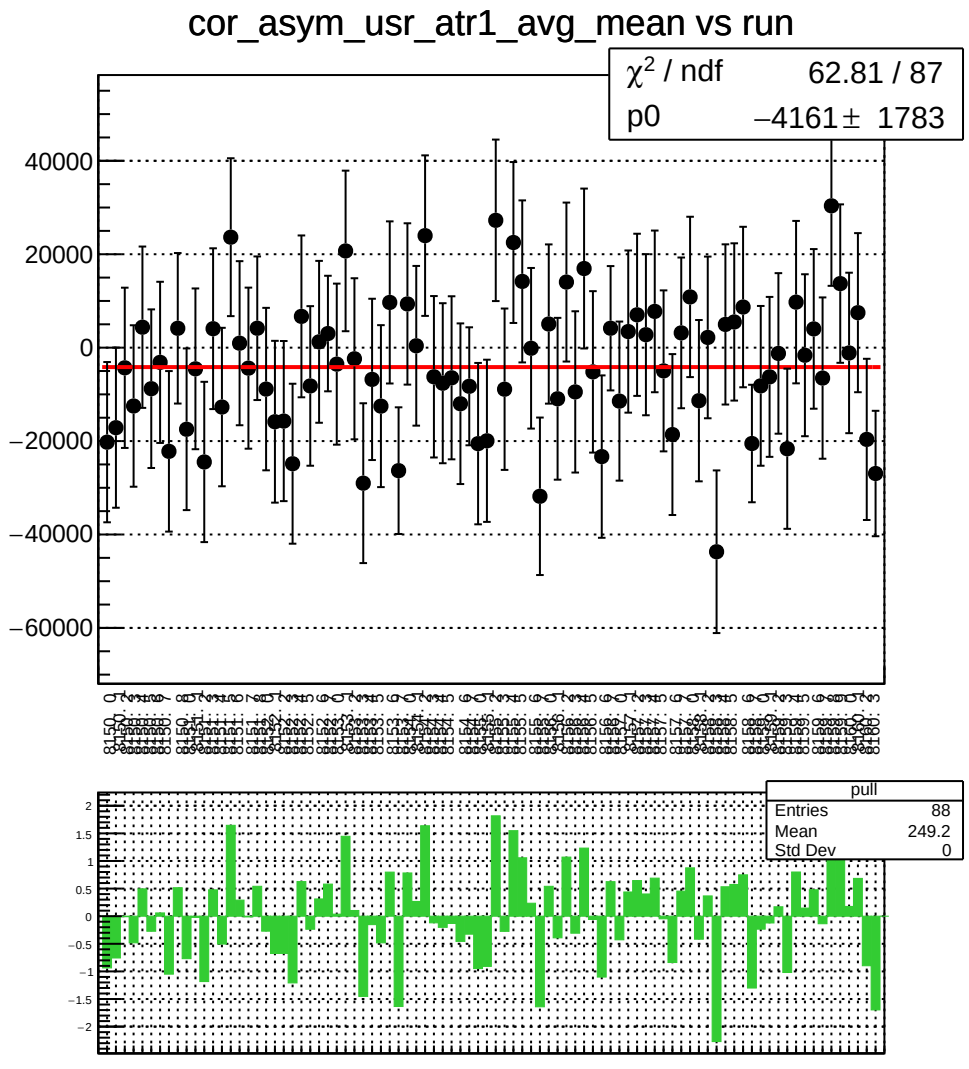

pull1D
Entries 88
Mean 0.01064
Std Dev 0.8448
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

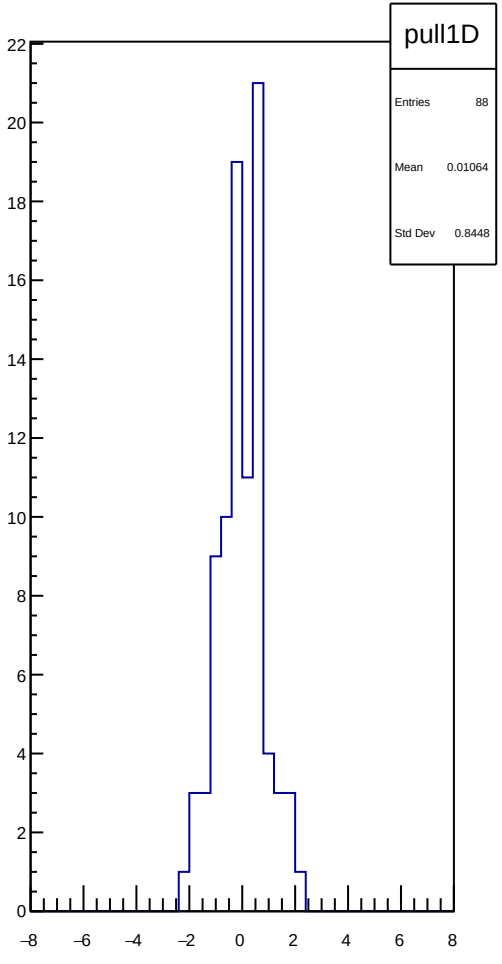

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 91.35 / 87
p0 1633 ± 1.261
1680
1660
1640
1620
1600
1580

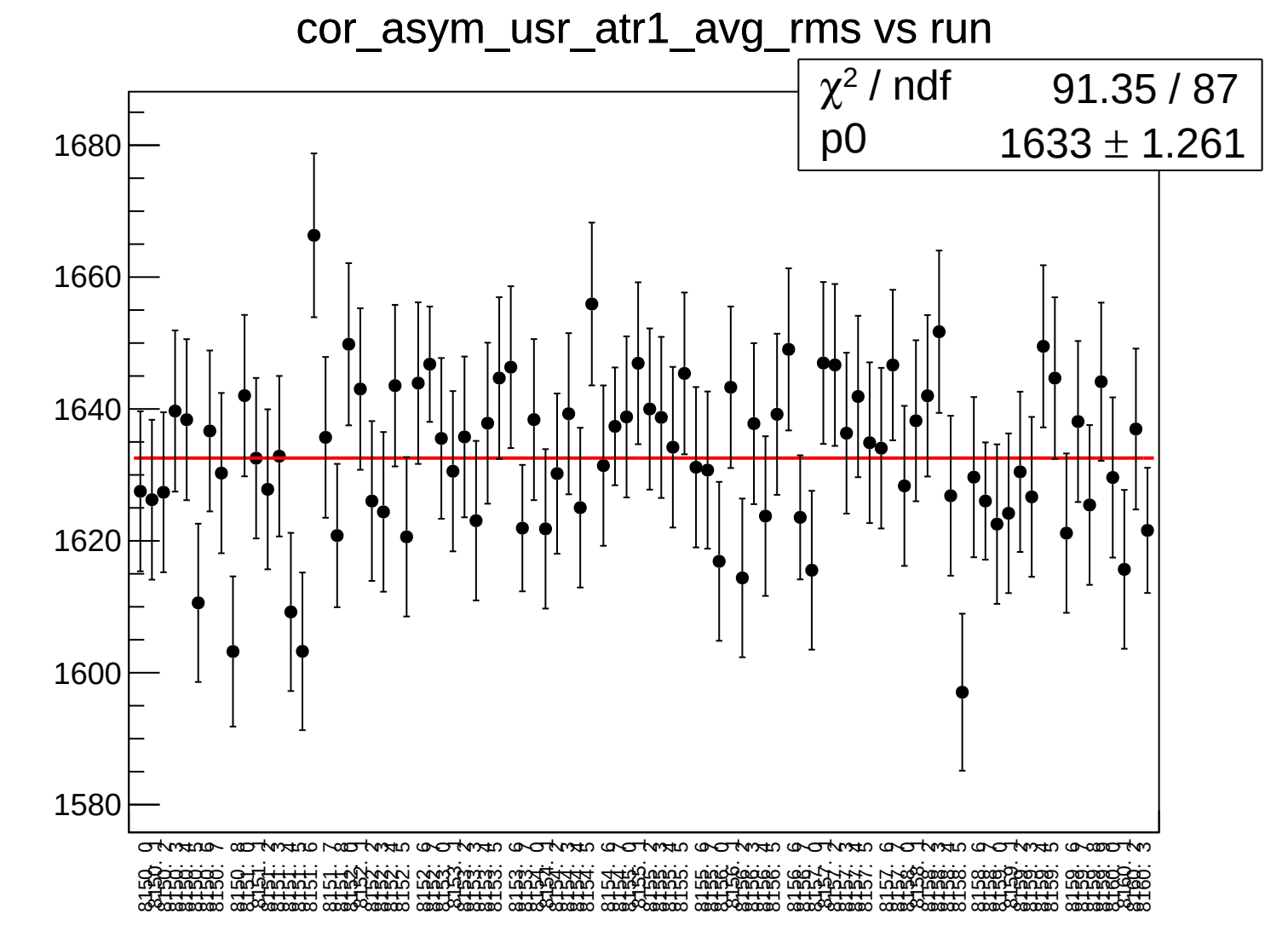

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 106.2 / 87
p0 −3739 ± 2374
pull
Entries 88
Mean −5748
Std Dev 0

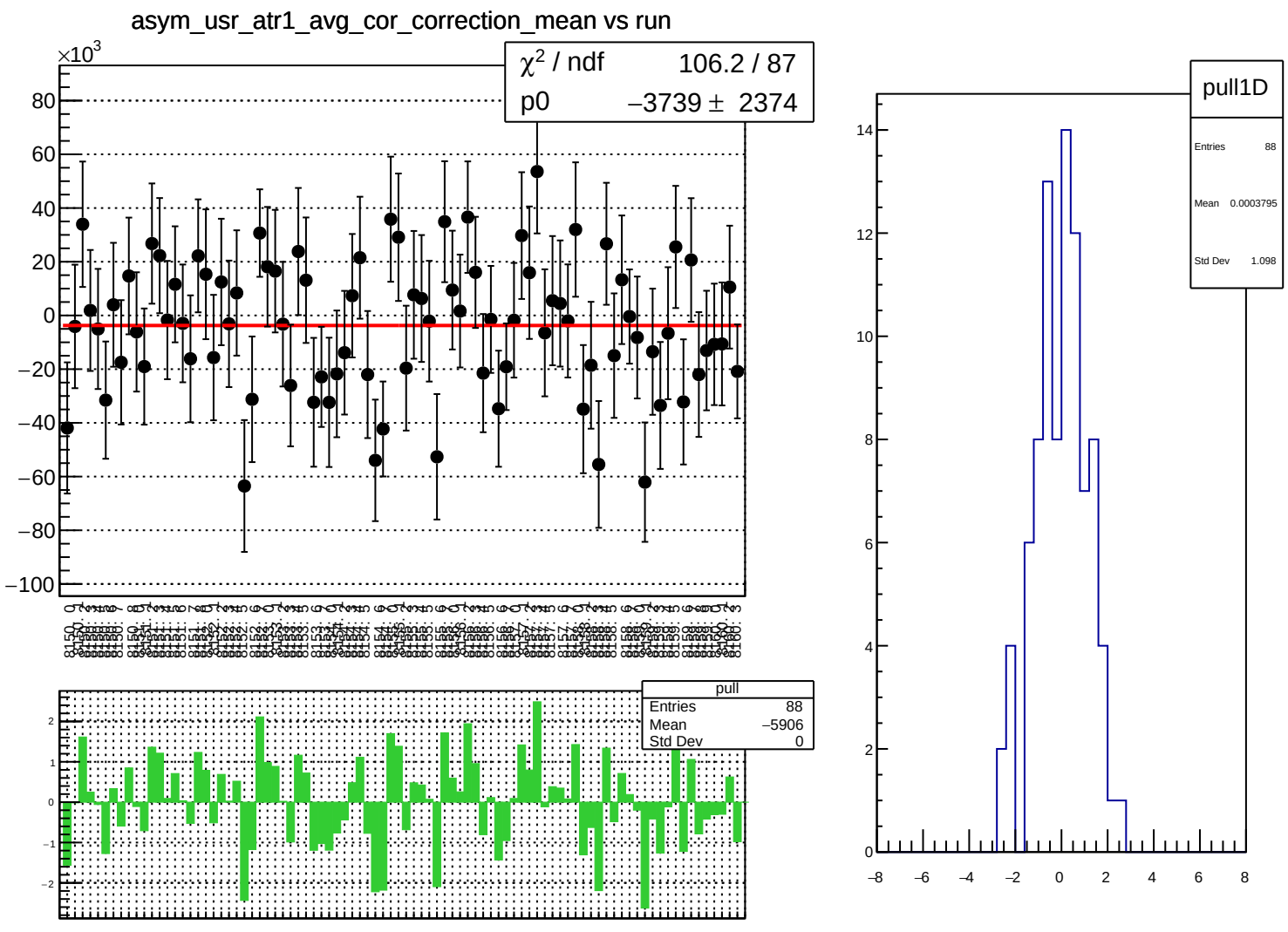

pull1D
Entries 88
Mean 0.0003898
Std Dev 1.098

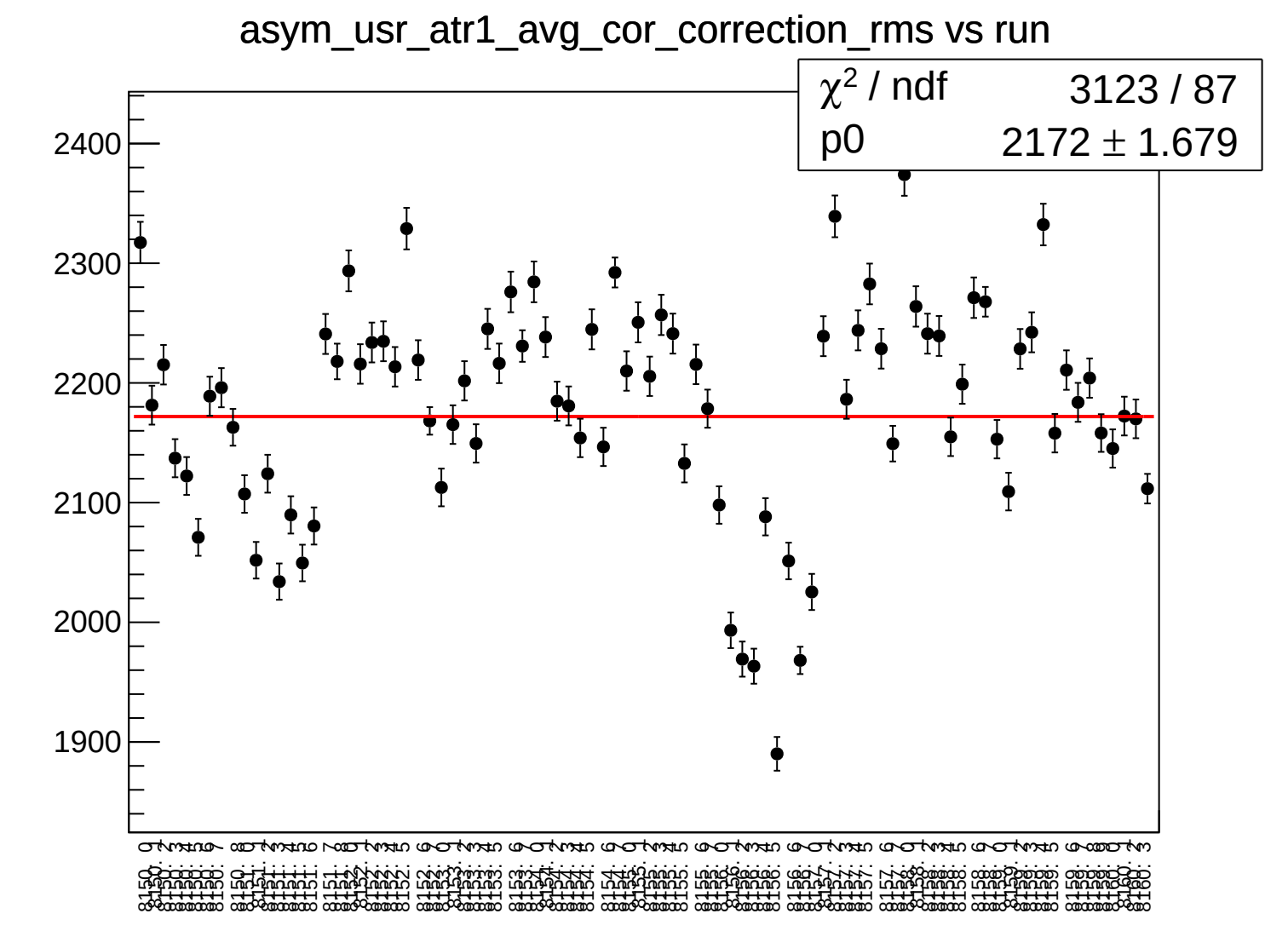

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 3124 / 87
p0 2172 ± 1.679
2400
2300
2200
2100
2000
1900

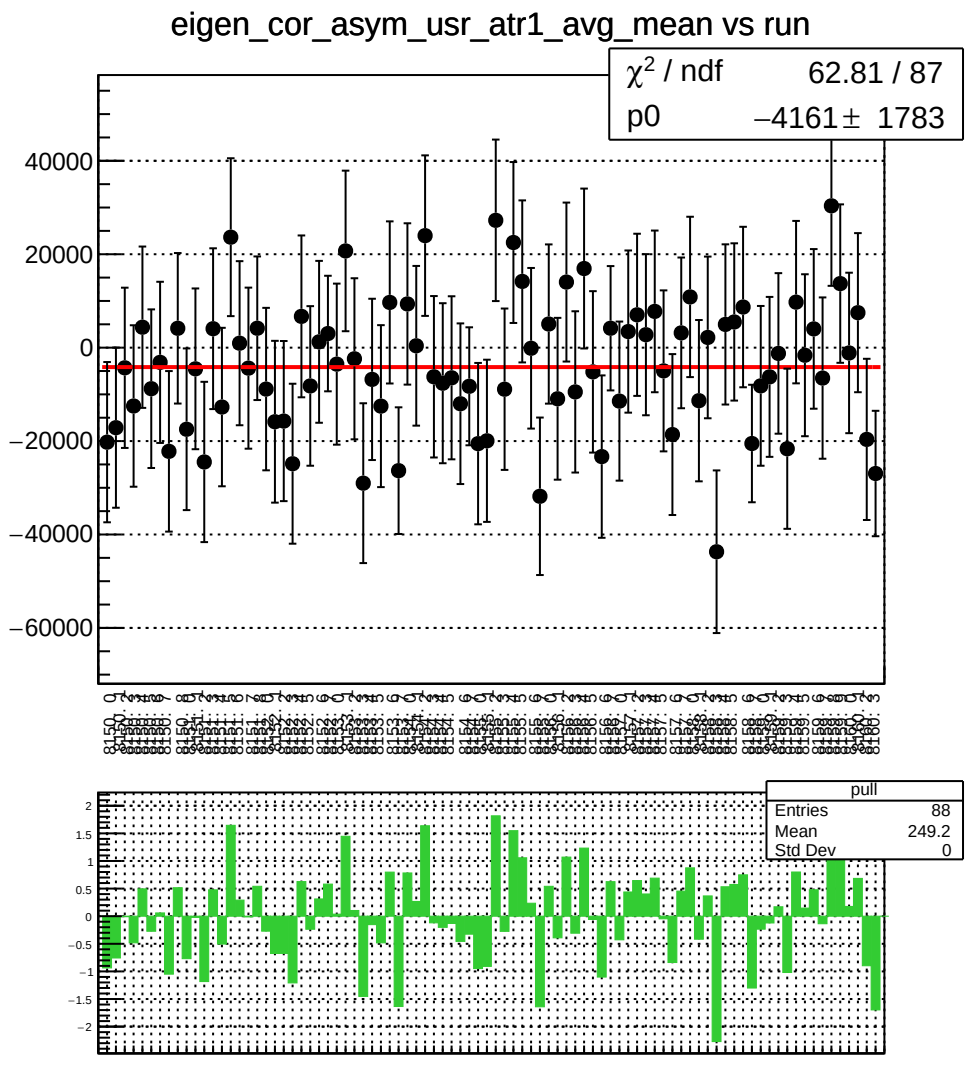

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 62.81 / 87
p0 −4161 ± 1783
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 249.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

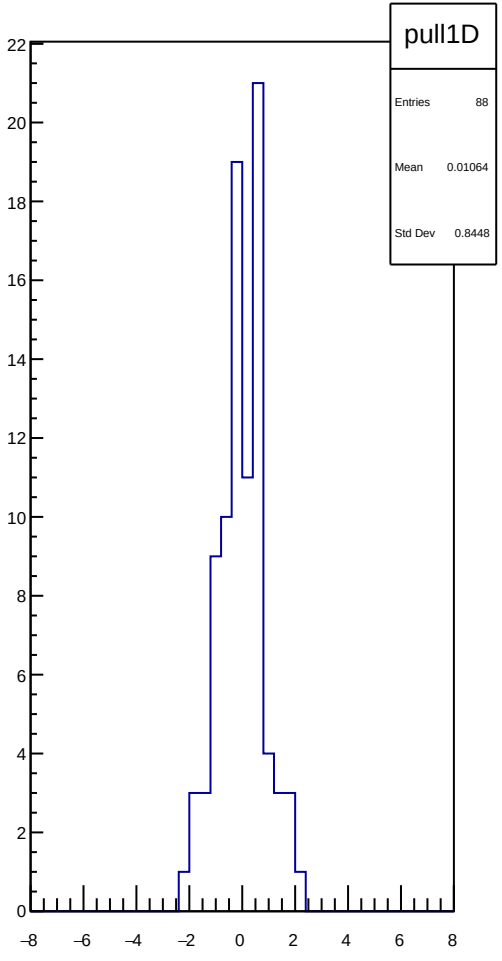

pull1D
Entries 88
Mean 0.01064
Std Dev 0.8448
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

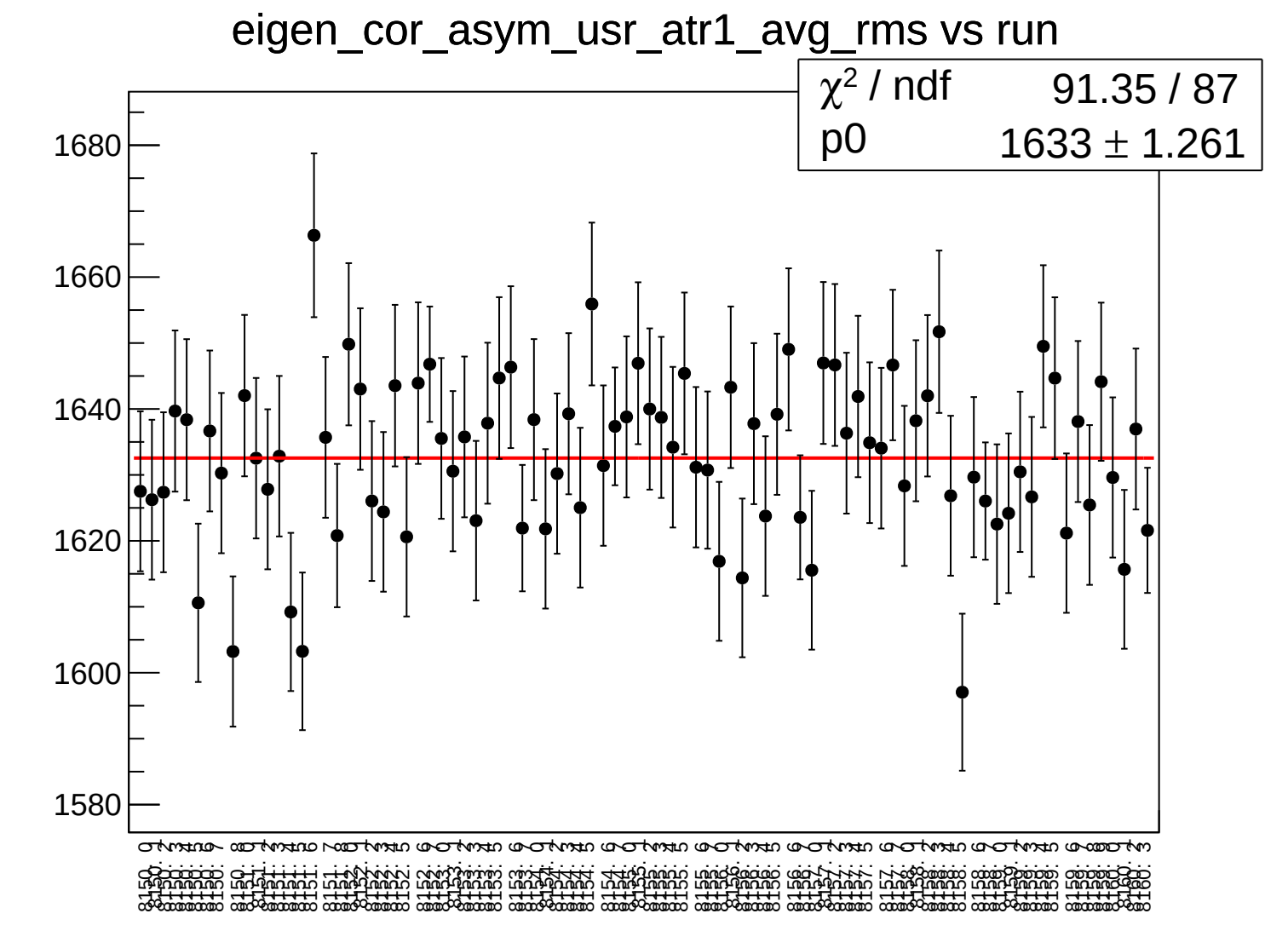

cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 91.35 / 87
p0 1633 ± 1.261
1680
1660
1640
1620
1600
1580

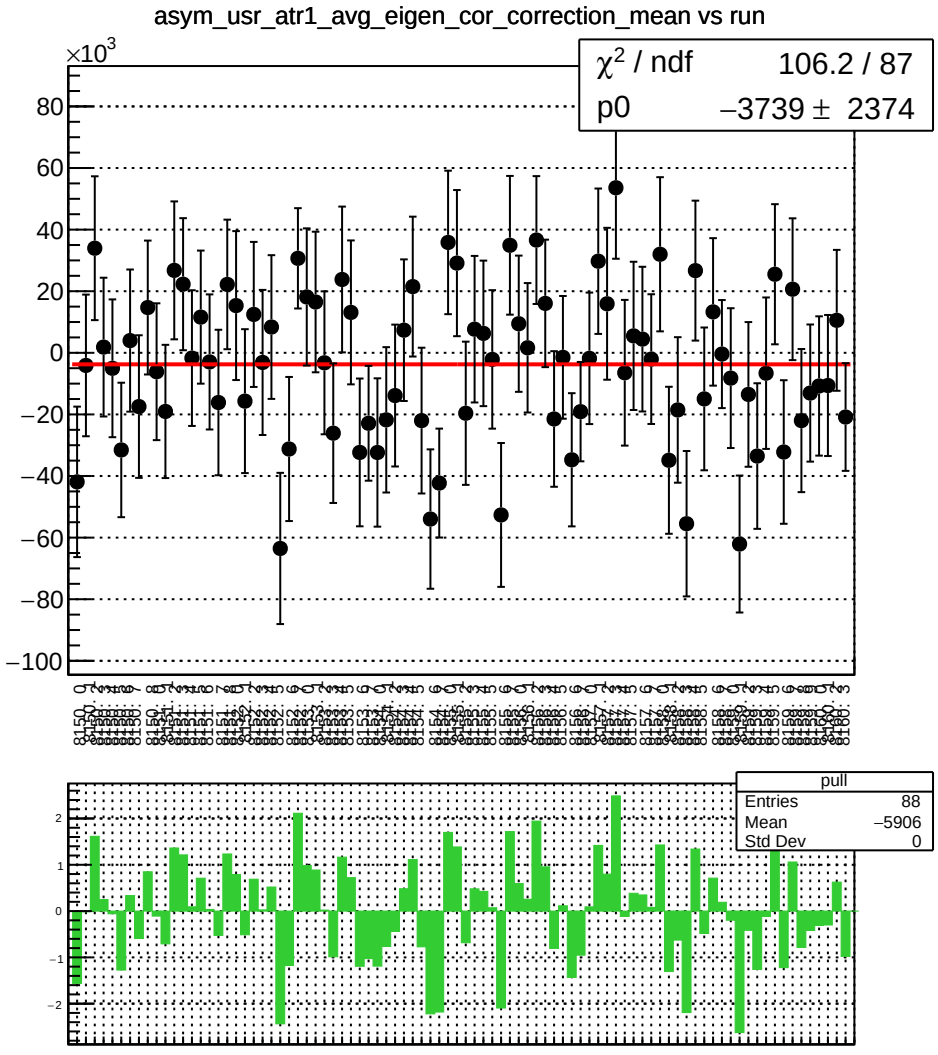

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 106.2 / 87
p0 −3739 ± 2374
×10³
pull
Entries 88
Mean −5906
Std Dev 0
pull1D
Entries 88
Mean 0.0003795
Std Dev 1.098

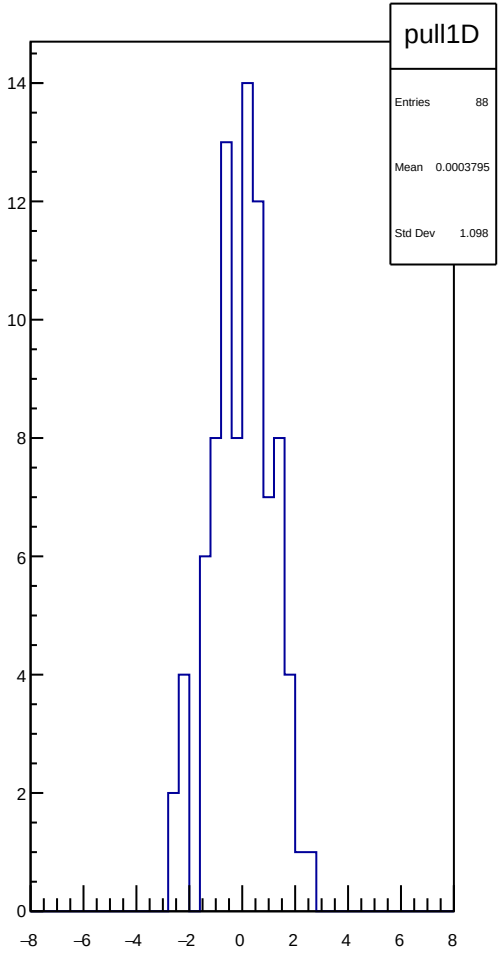

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 3123 / 87
p0 2172 ± 1.679
2400
2300
2200
2100
2000
1900

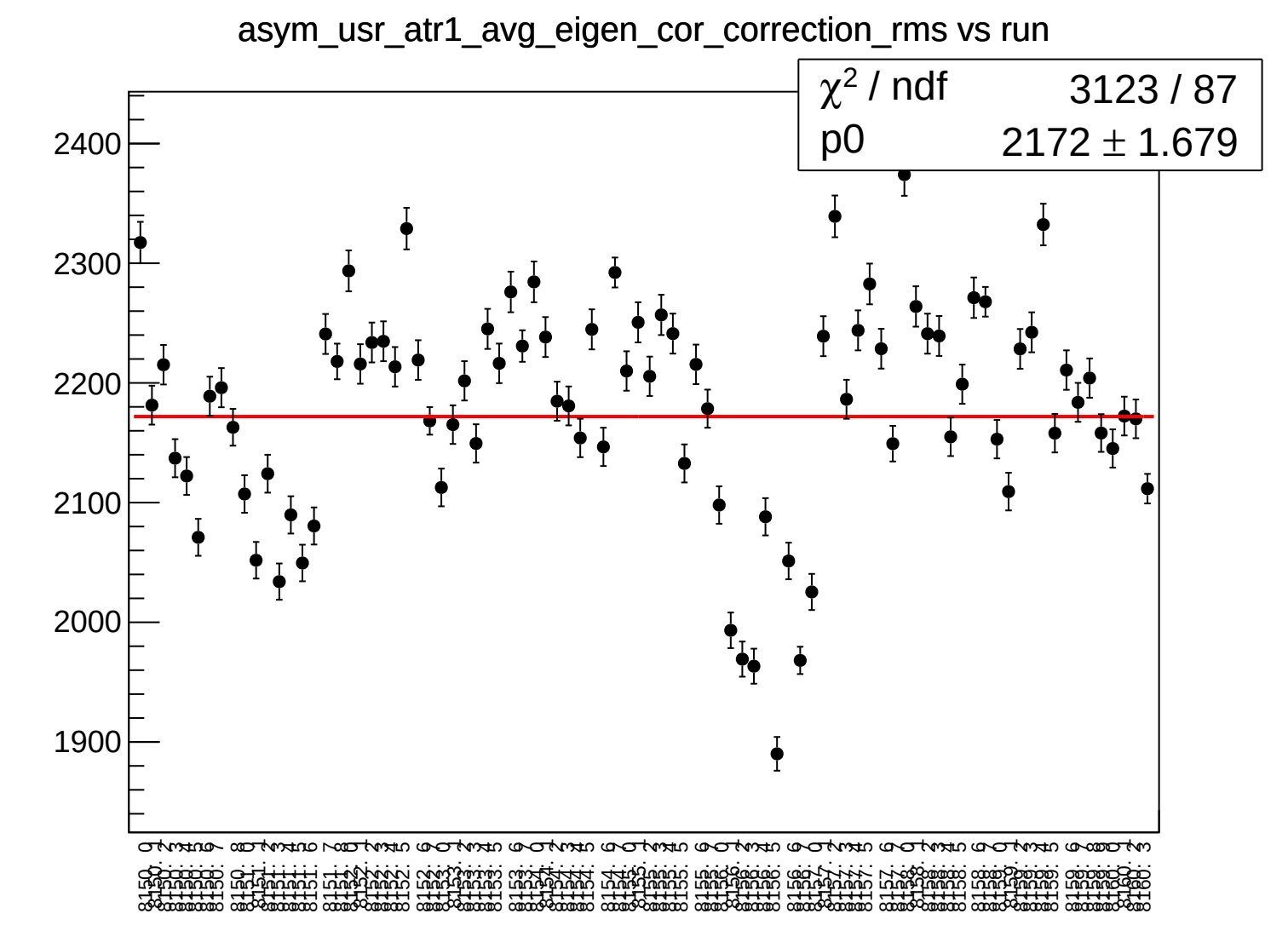

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 62.81 / 87
p0 −4161 ± 1783
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 249.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

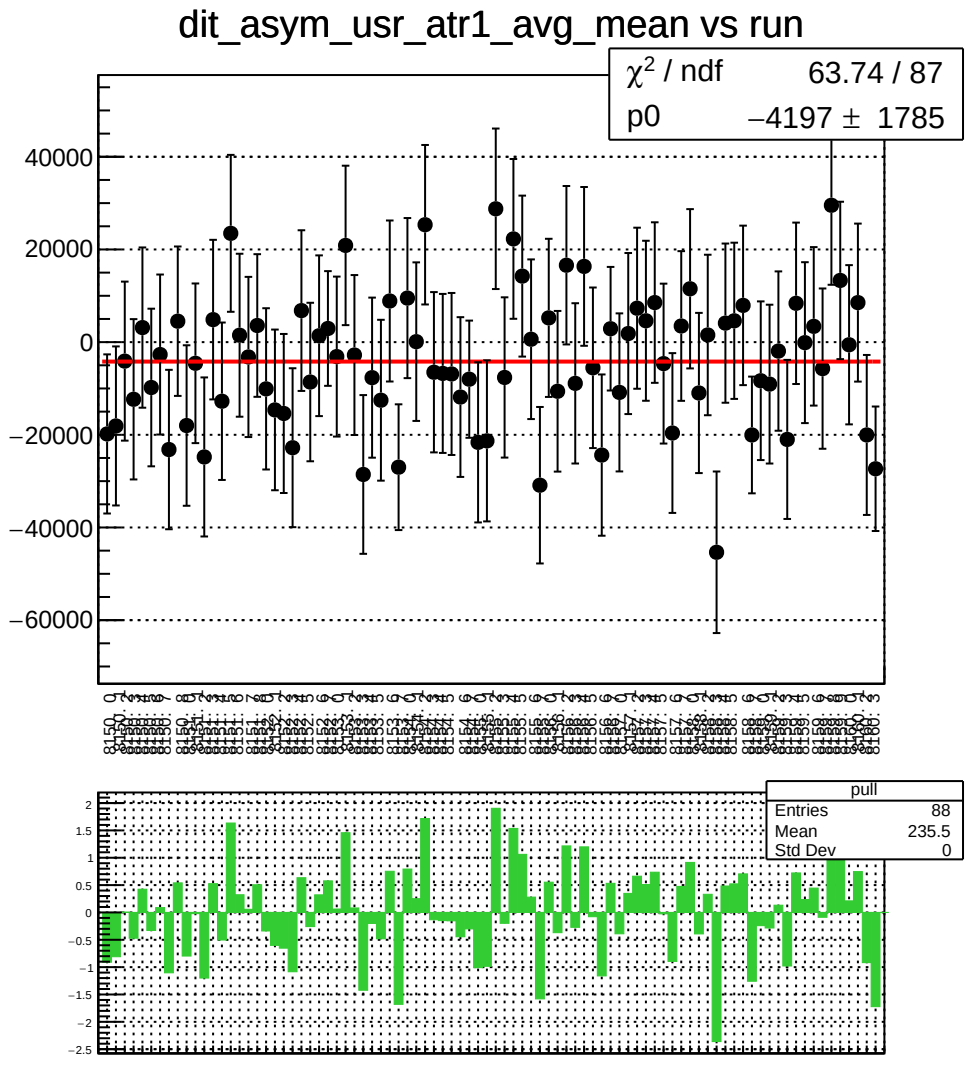

pull1D
Entries 88
Mean 0.01064
Std Dev 0.8448
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

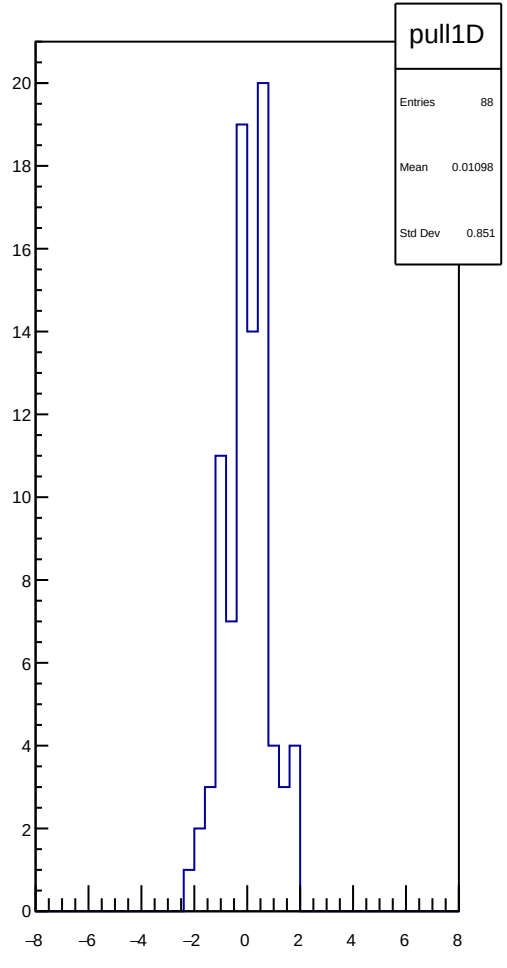

eigen_cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 91.35 / 87
p0 1633 ± 1.261
1680
1660
1640
1620
1600
1580

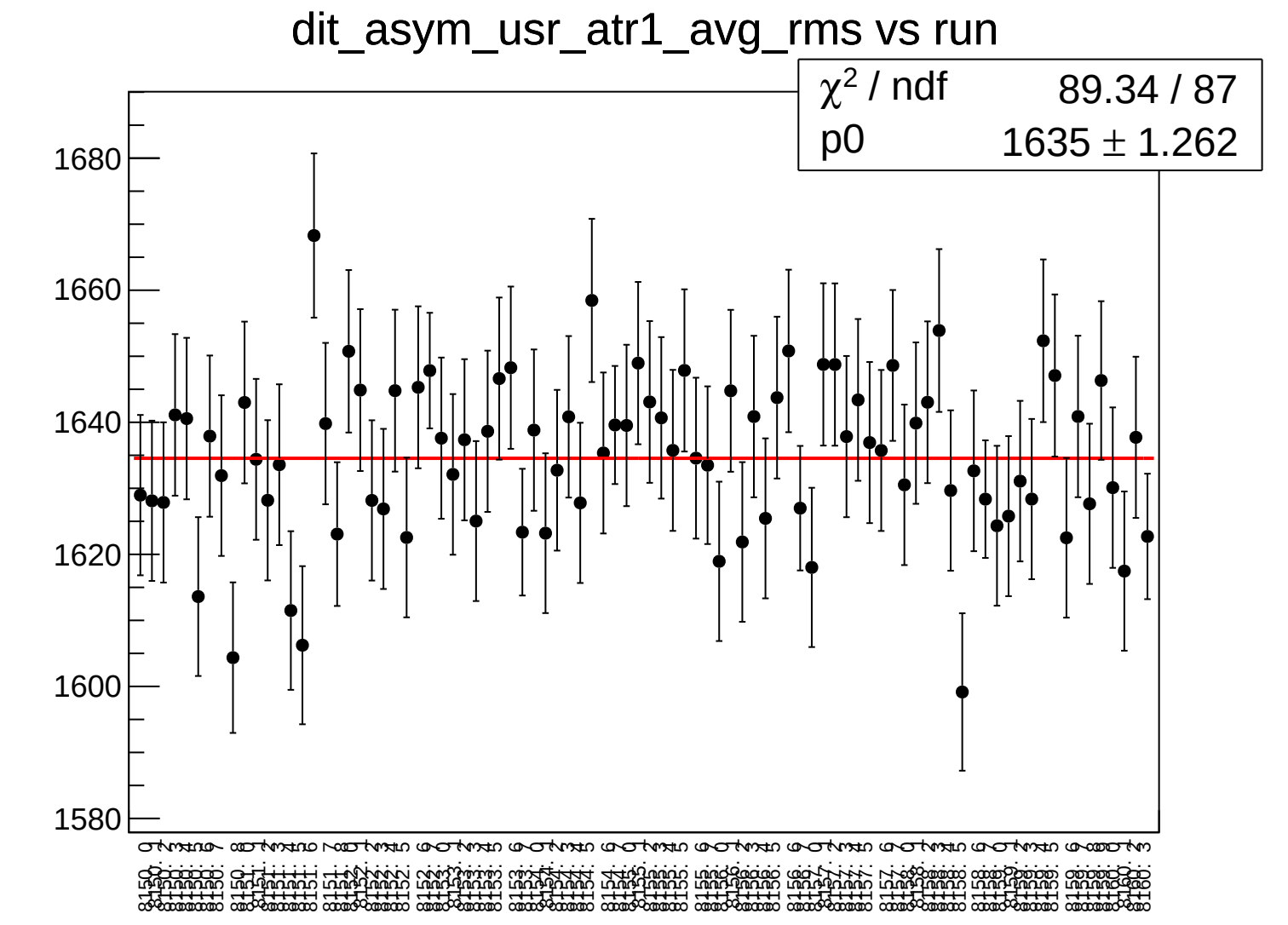

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.2 / 87
p0 −3739 ± 2374
pull
Entries 88
Mean −5906
Std Dev 0

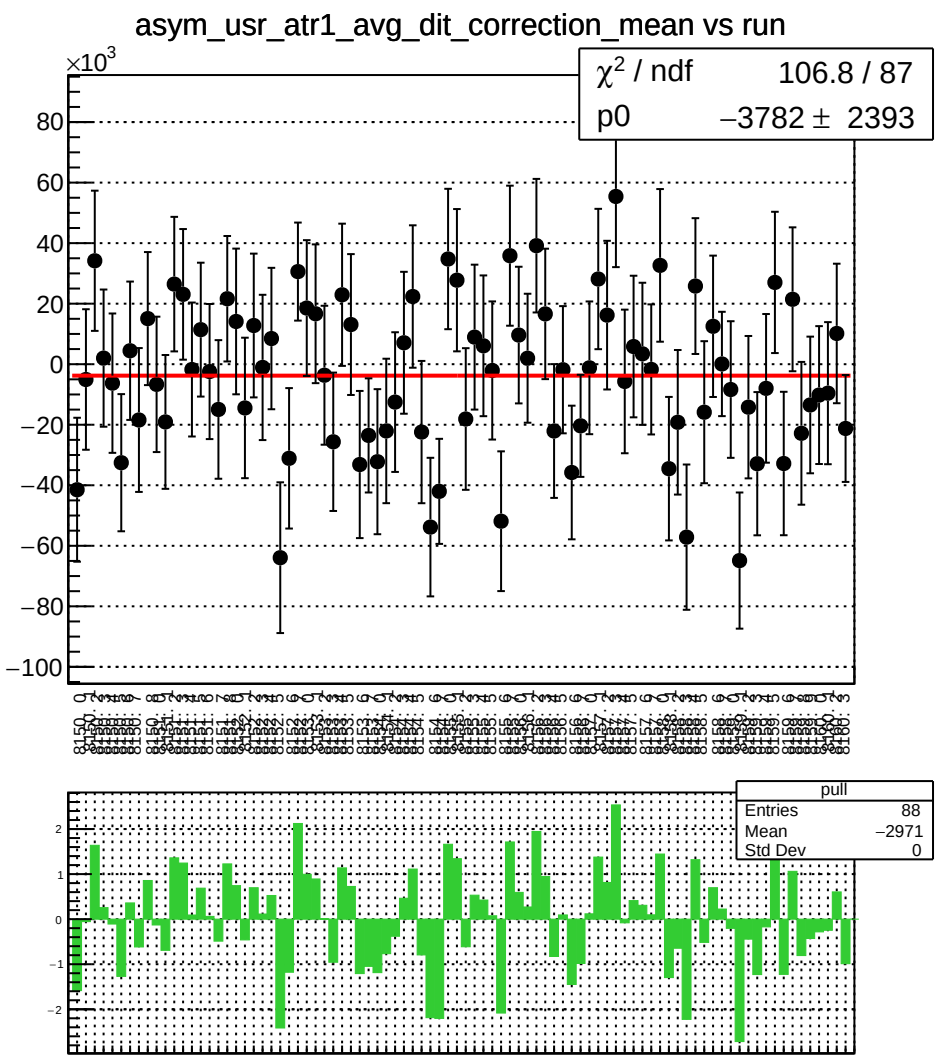

pull1D
Entries 88
Mean 0.0003795
Std Dev 1.098

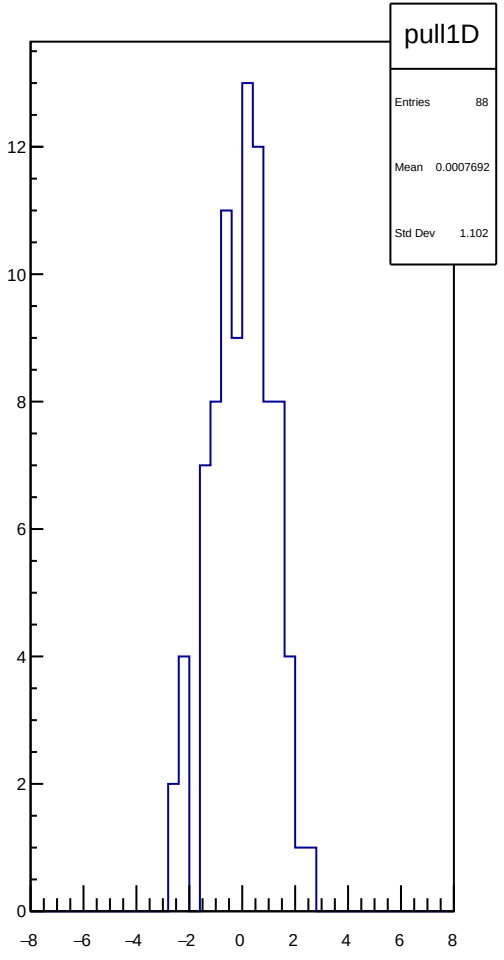

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 3123 / 87
p0 2172 ± 1.679
2400
2300
2200
2100
2000
1900

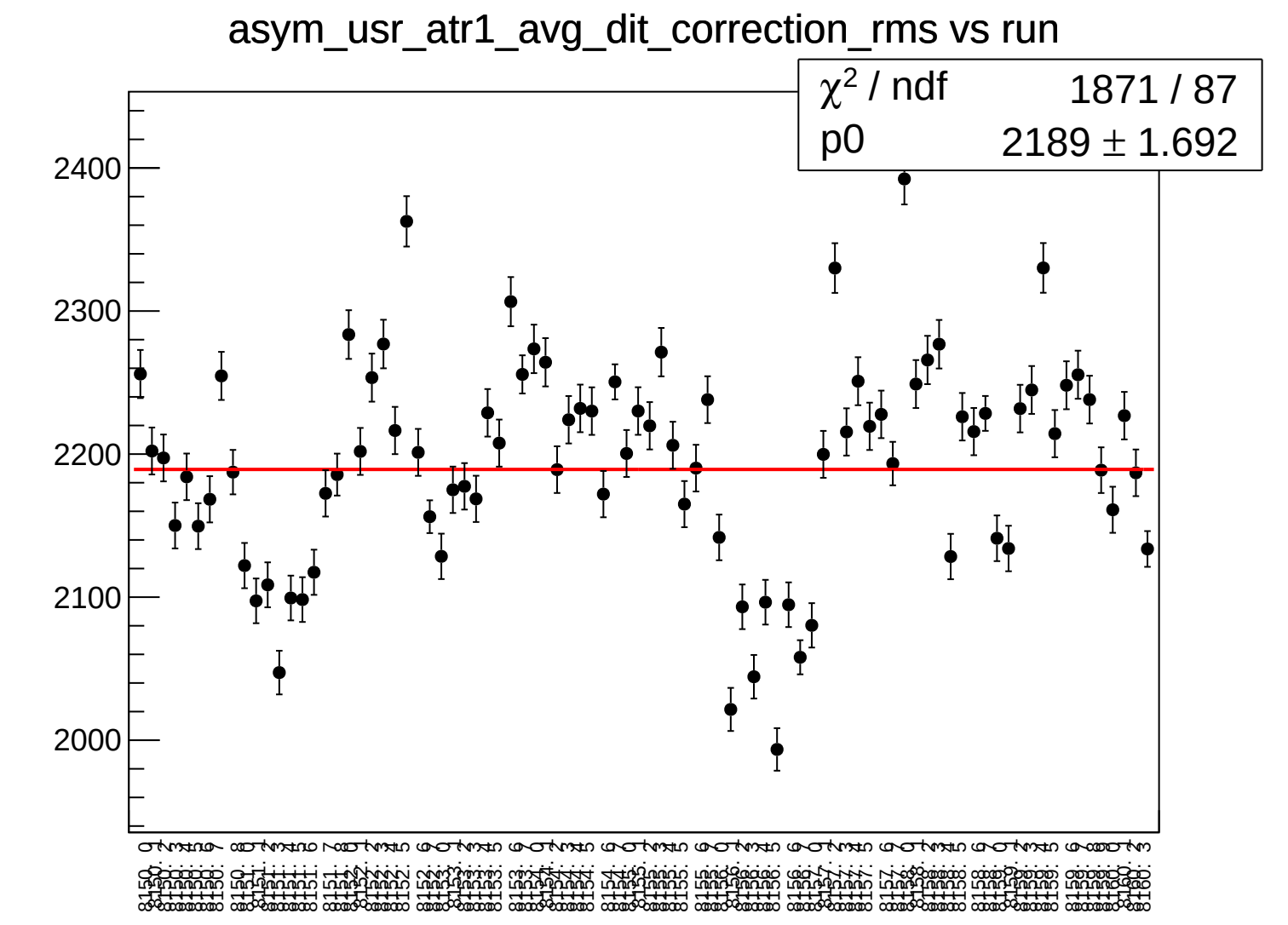

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 63.74 / 87
p0 −4197 ± 1785
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 235.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

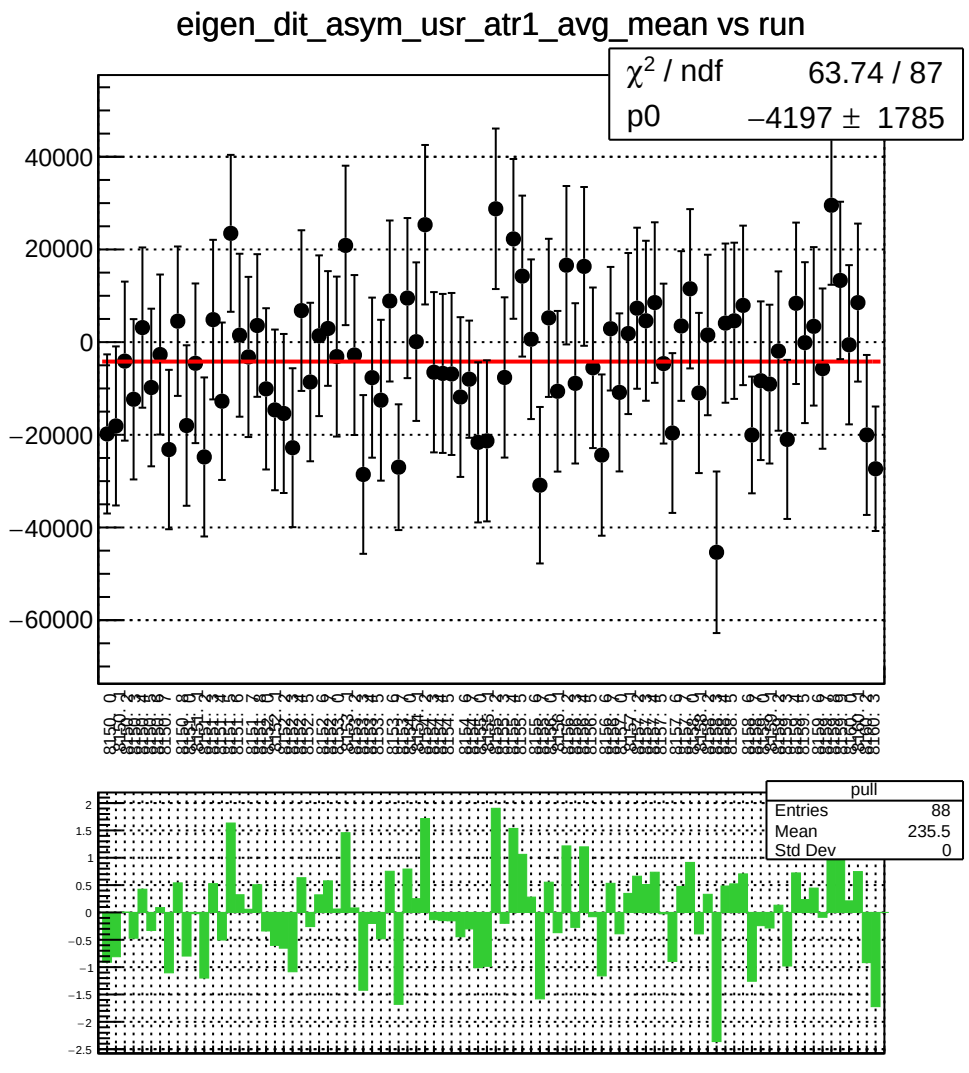

pull1D
Entries 88
Mean 0.01098
Std Dev 0.851
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

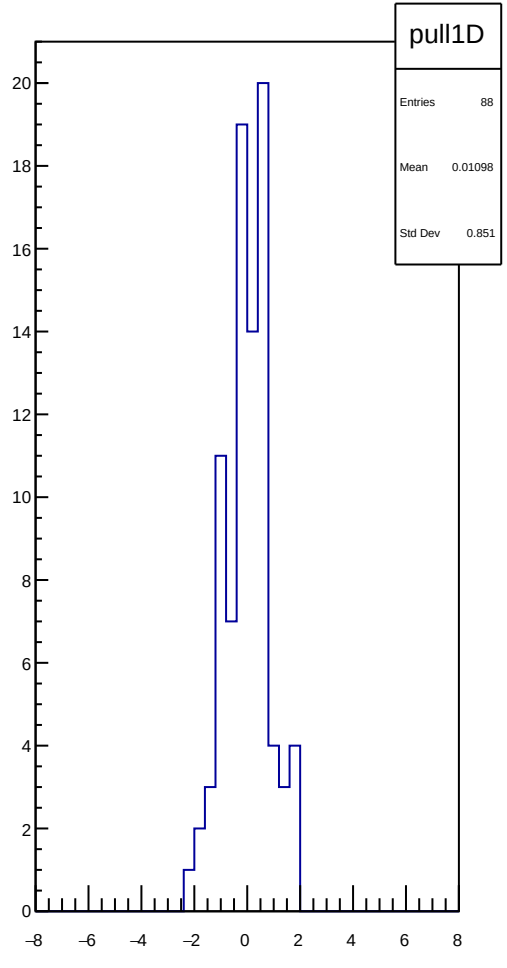

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 89.34 / 87
p0 1635 ± 1.262
1680
1660
1640
1620
1600
1580

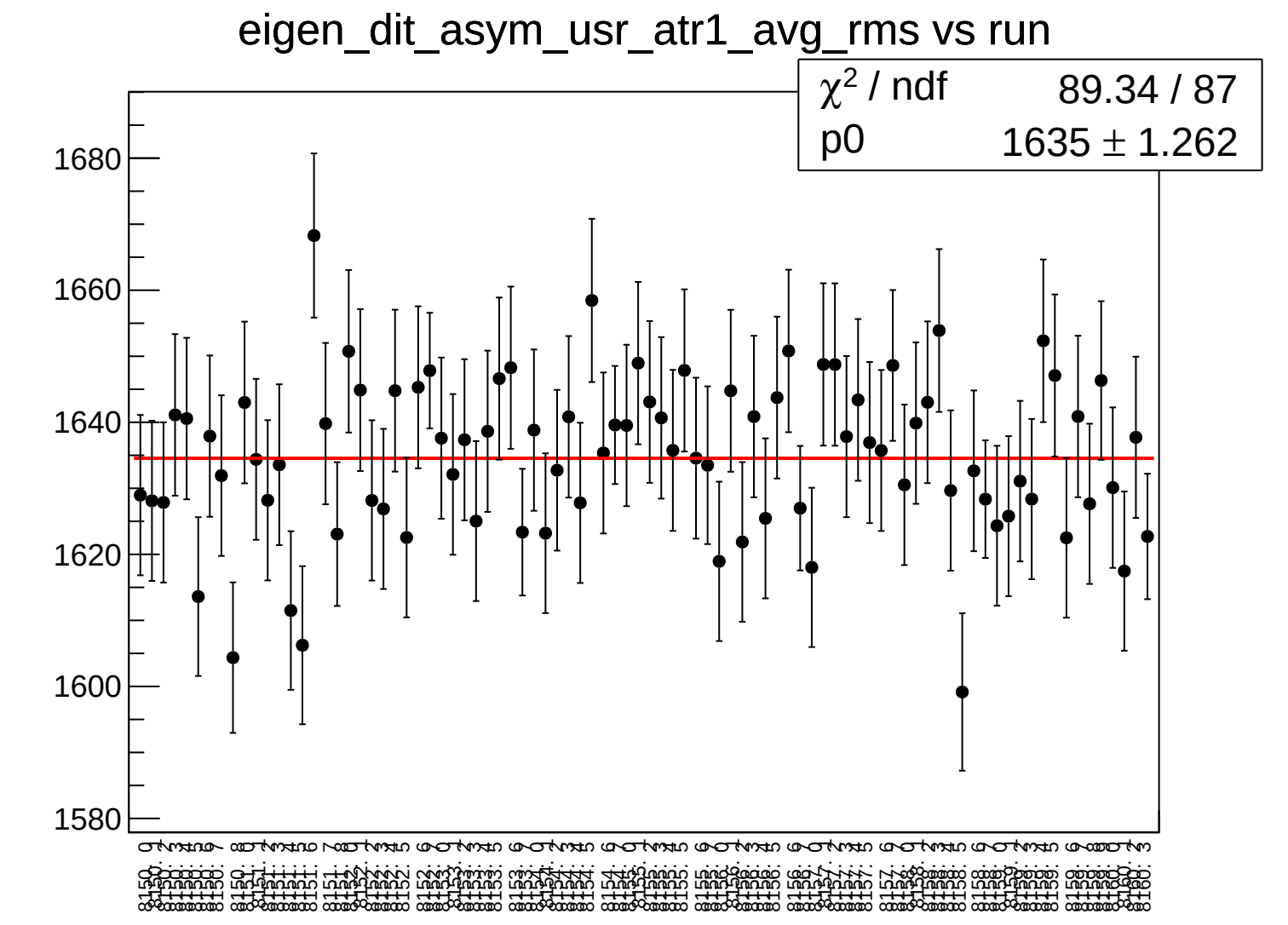

asym_usr_atr1_avg_dit_correction_mean vs run
×10^3
χ² / ndf 106.8 / 87
p0 −3782 ± 2393
pull
Entries 88
Mean −2971
Std Dev 0

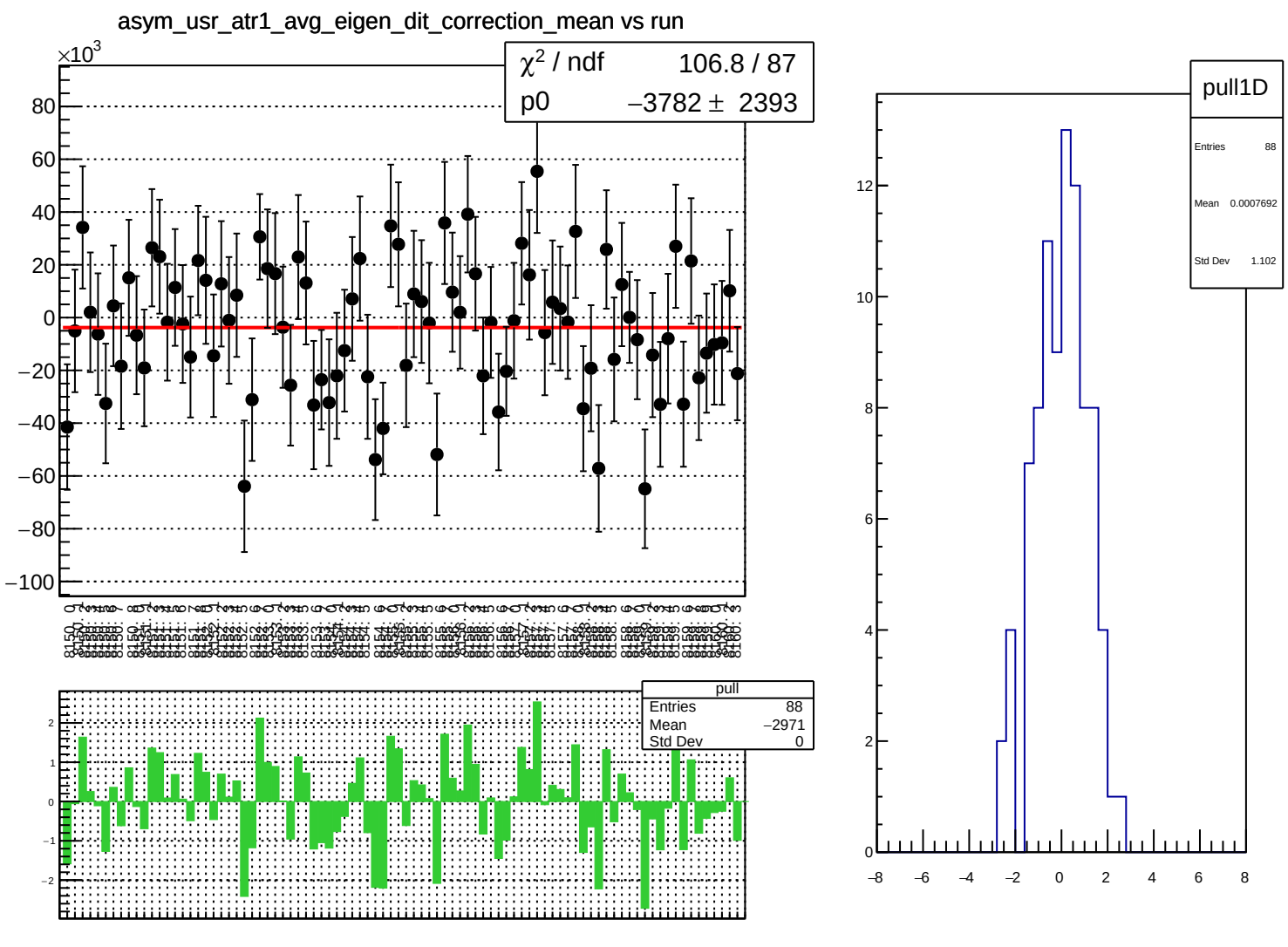

pull1D
Entries 88
Mean 0.0007692
Std Dev 1.102

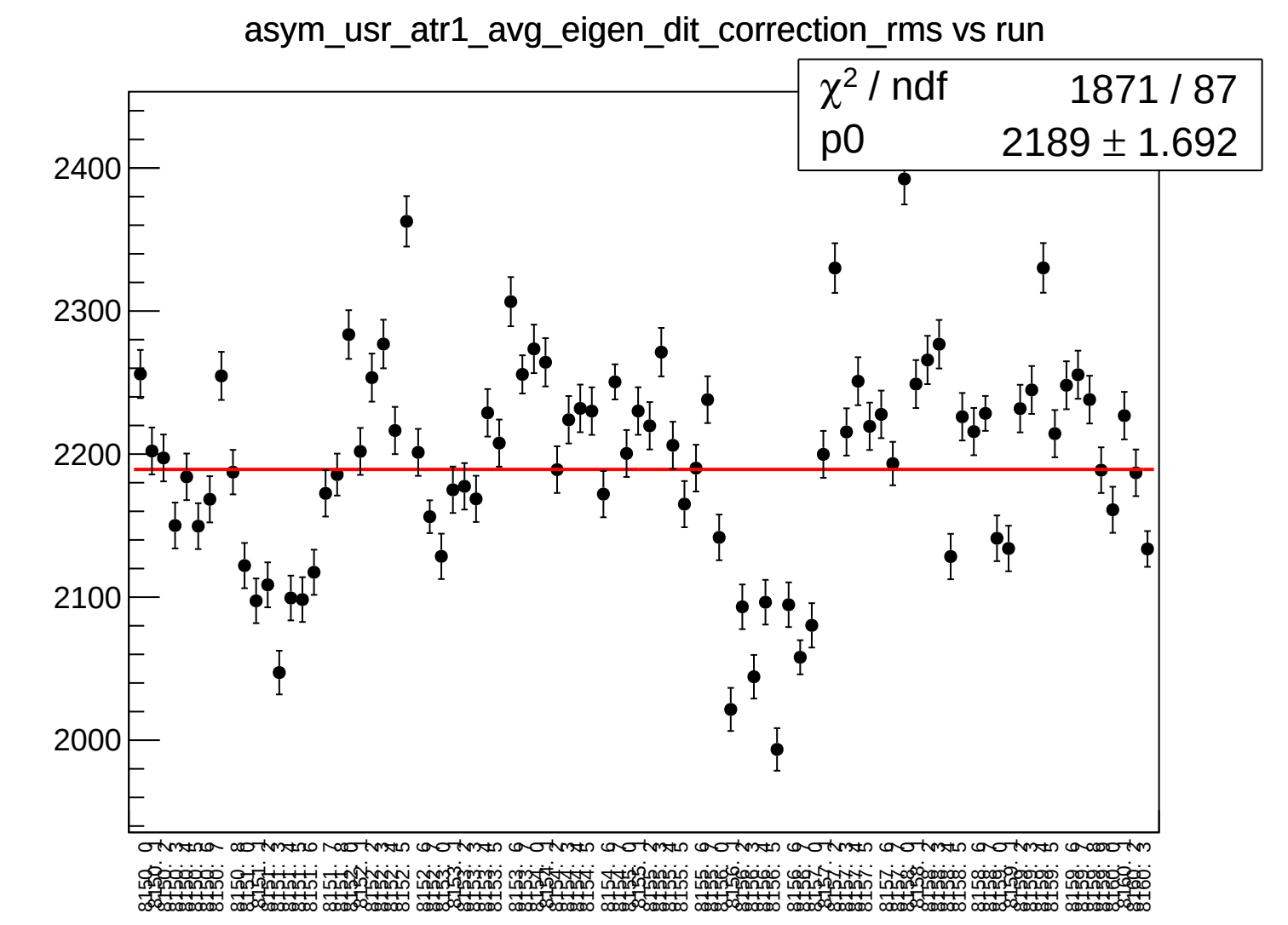

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 1871 / 87
p0 2189 ± 1.692
2400
2300
2200
2100
2000

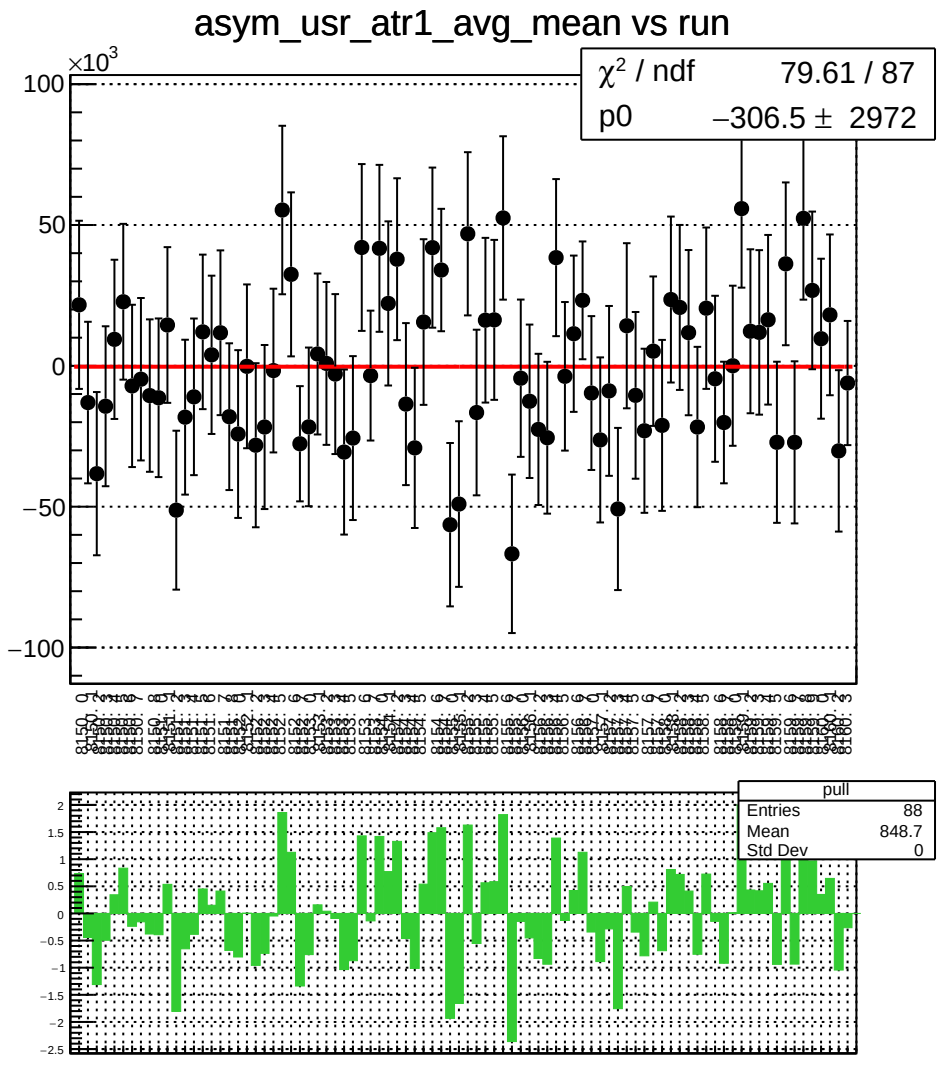

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 63.74 / 87
p0 −4197 ± 1785
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 235.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

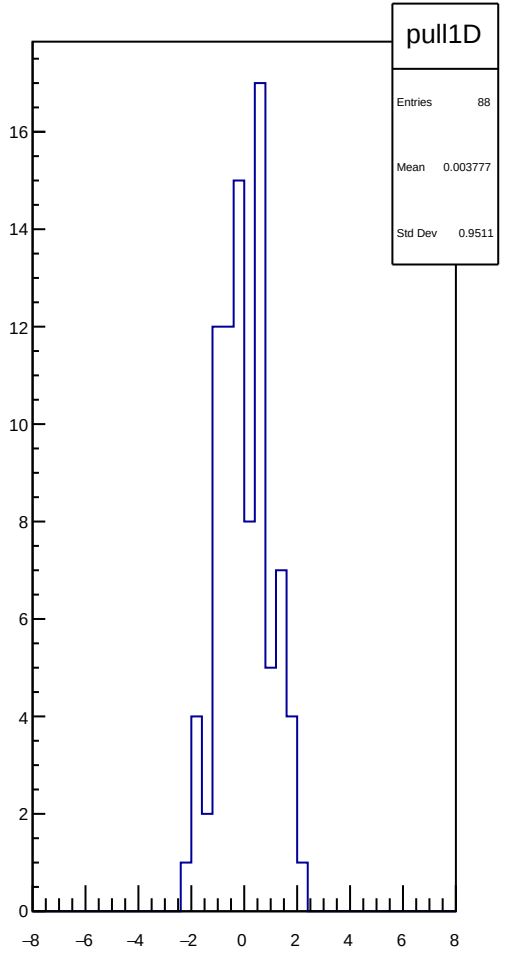

pull1D
Entries 88
Mean 0.01098
Std Dev 0.851
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

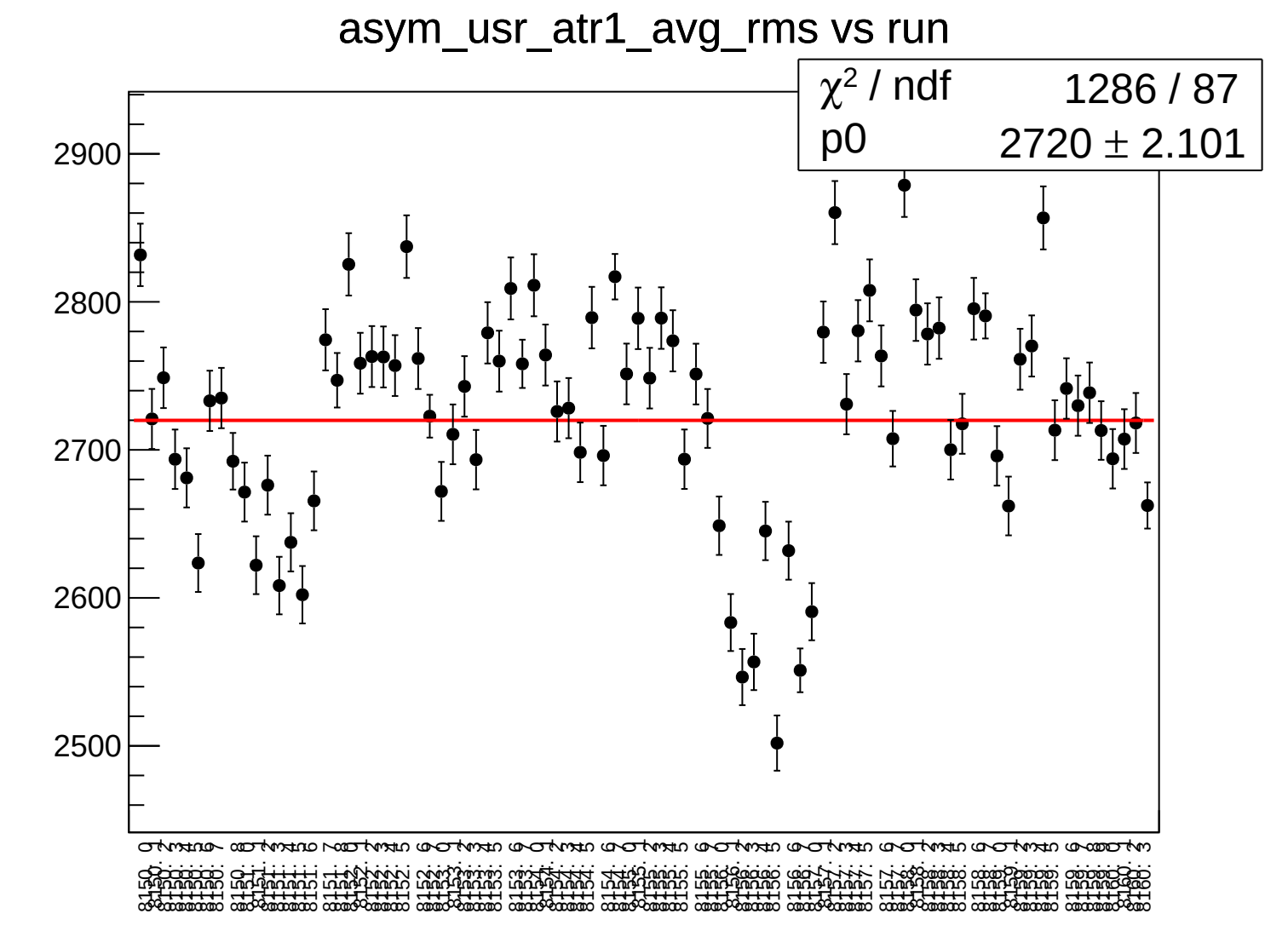

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 89.34 / 87
p0 1635 ± 1.262
1680
1660
1640
1620
1600
1580

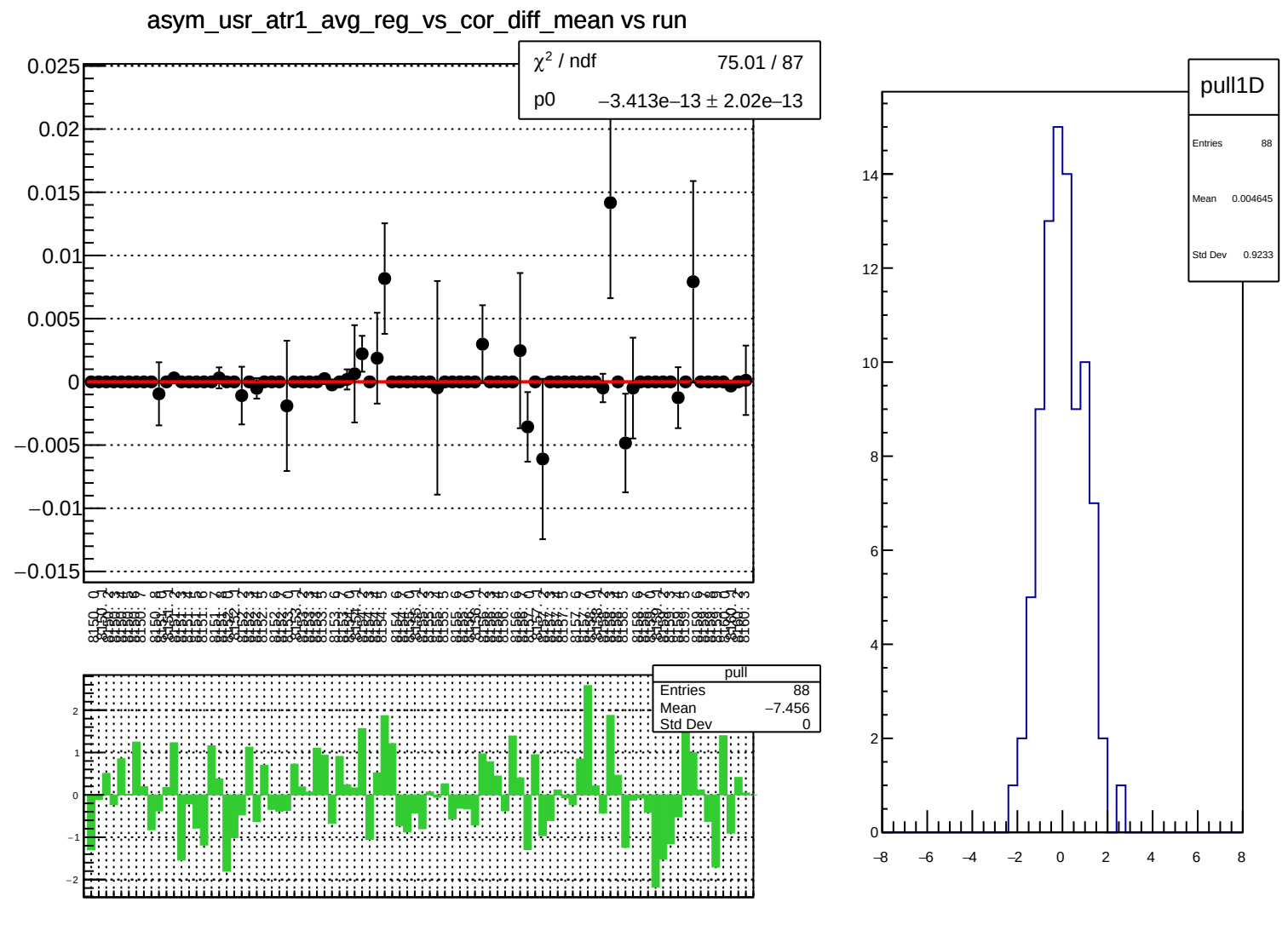

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 106.8 / 87
p0 −3782 ± 2393
pull
Entries 88
Mean −2971
Std Dev 0
pull1D
Entries 88
Mean 0.0007692
Std Dev 1.102

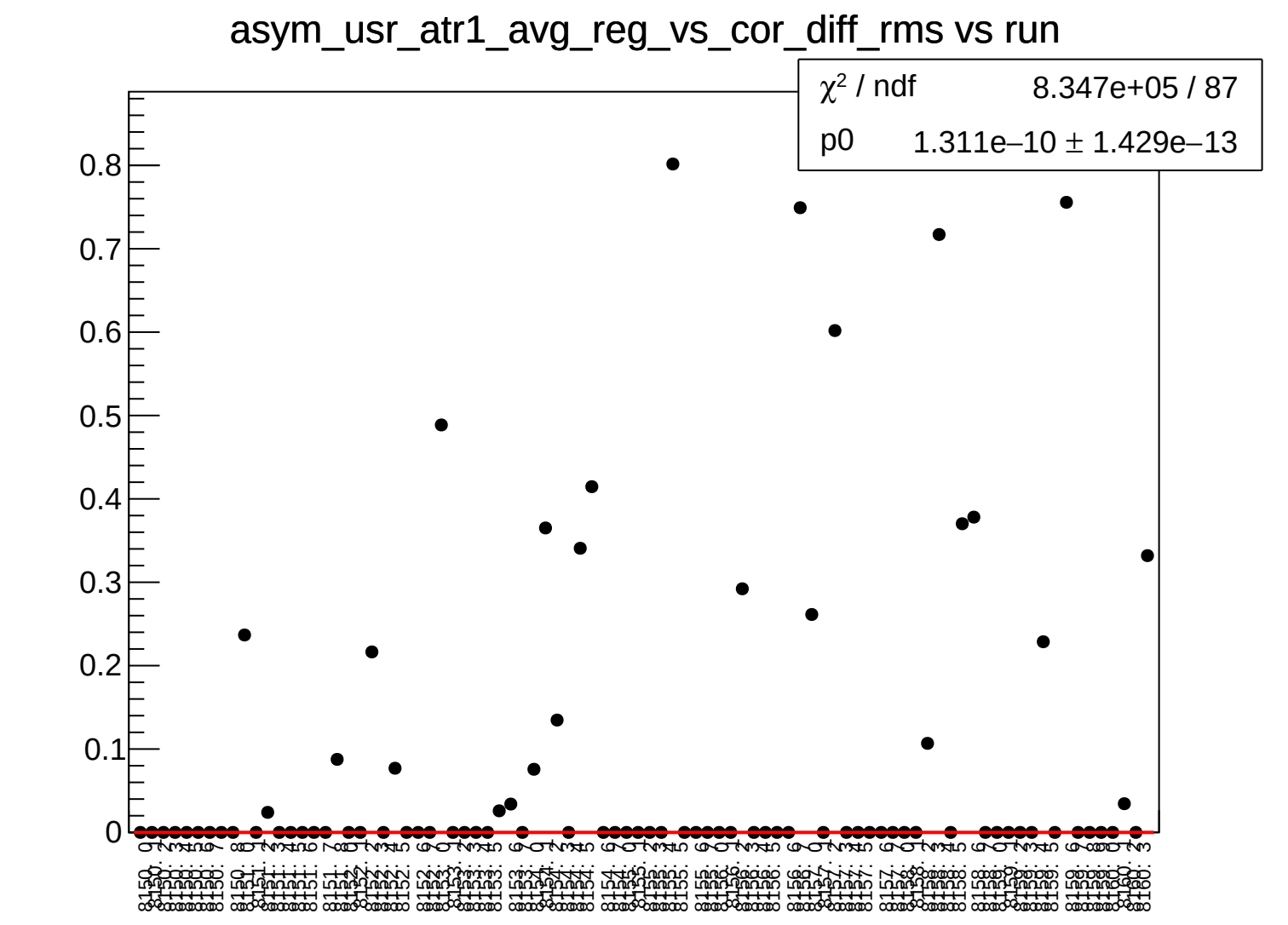

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1871 / 87
p0 2189 ± 1.692
2400
2300
2200
2100
2000

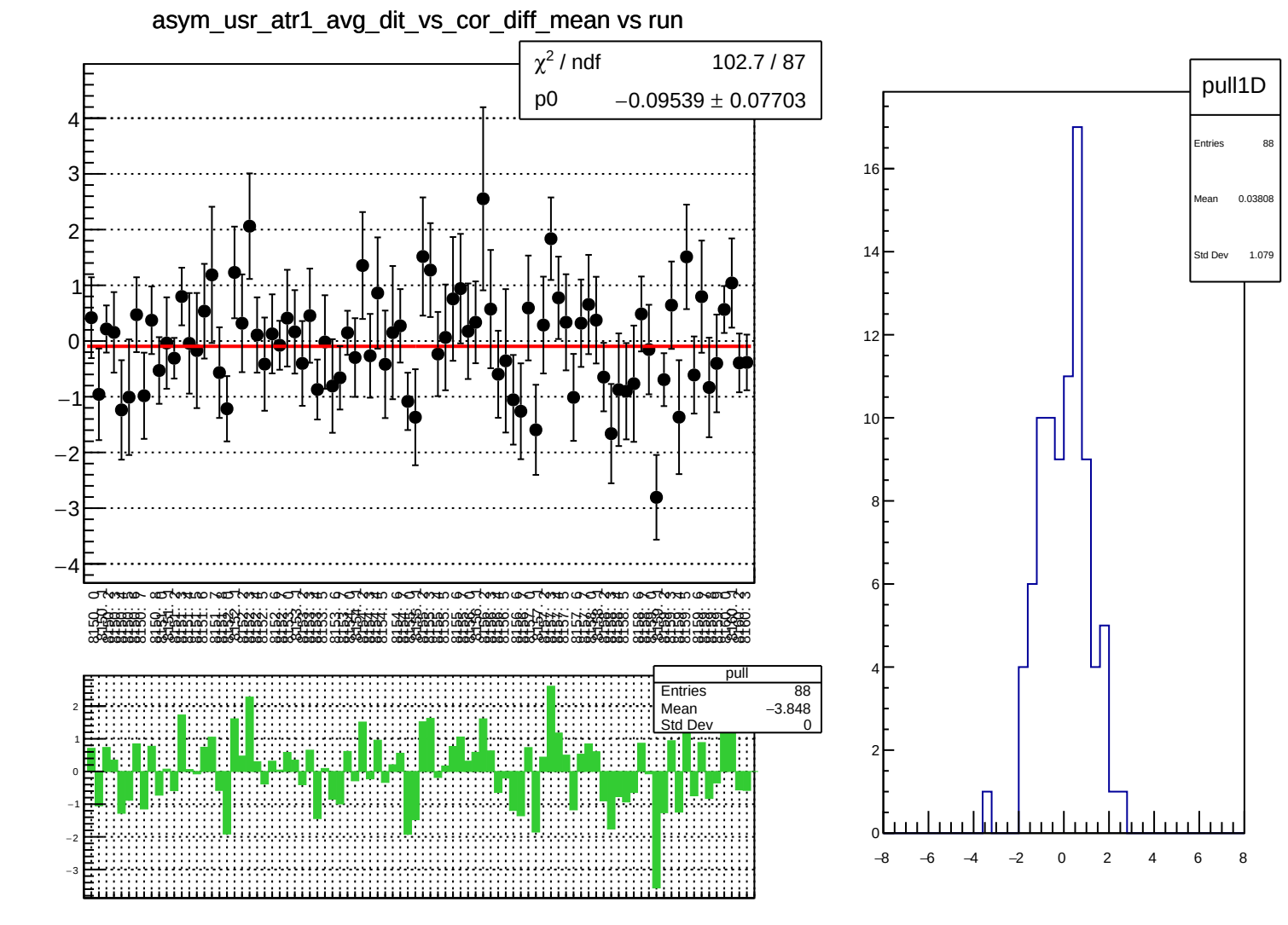

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 79.61 / 87
p0 −306.5 ± 2972
100
50
0
−50
−100
pull
Entries 88
Mean 848.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

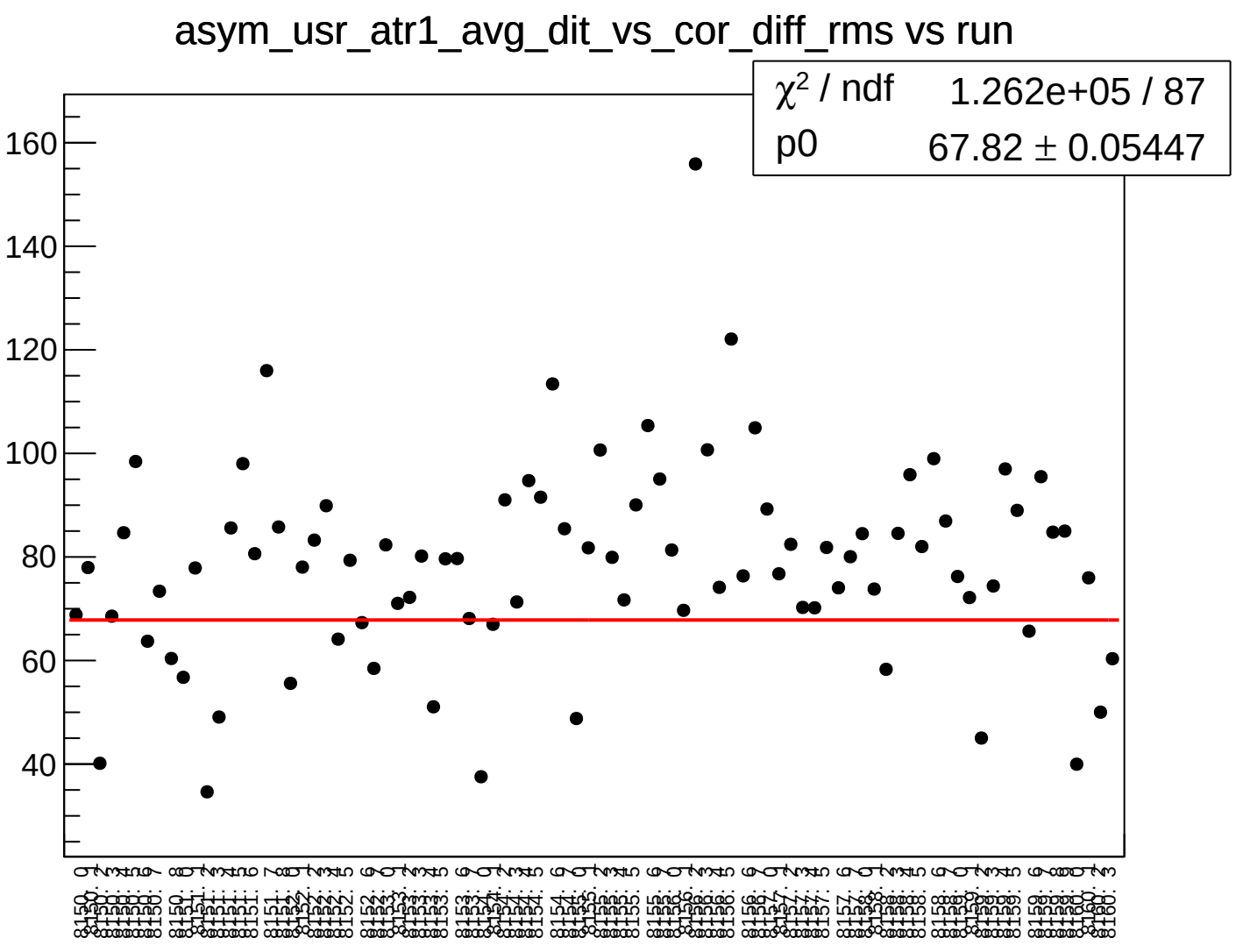

pull1D
Entries 88
Mean 0.003777
Std Dev 0.9511
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

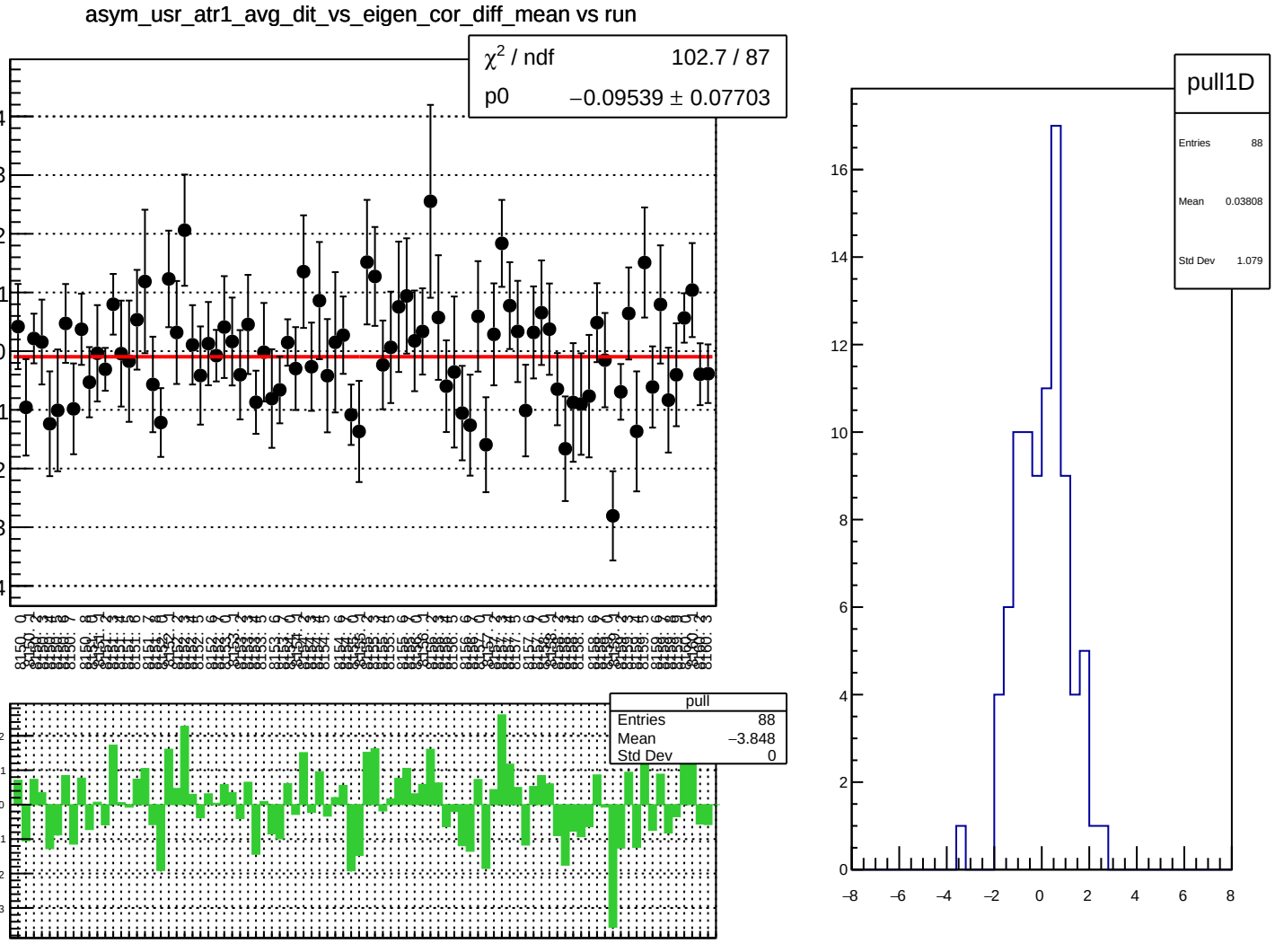

asym_usr_atr1_avg_rms vs run
χ² / ndf 1286 / 87
p0 2720 ± 2.101
2900
2800
2700
2600
2500

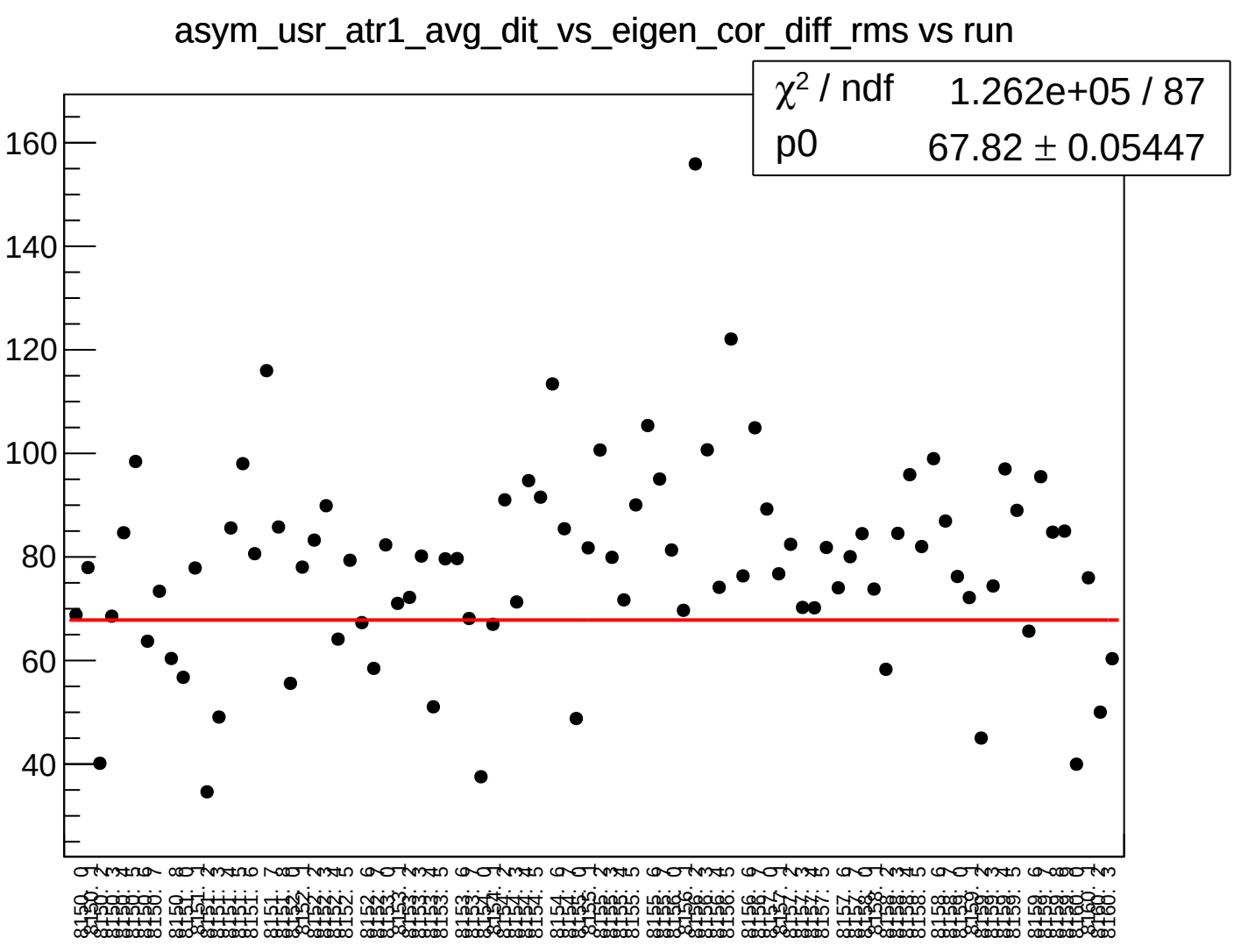

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.01 / 87
p0 −3.413e−13 ± 2.02e−13
pull
Entries 88
Mean −7.456
Std Dev 0
pull1D
Entries 88
Mean 0.004645
Std Dev 0.9233

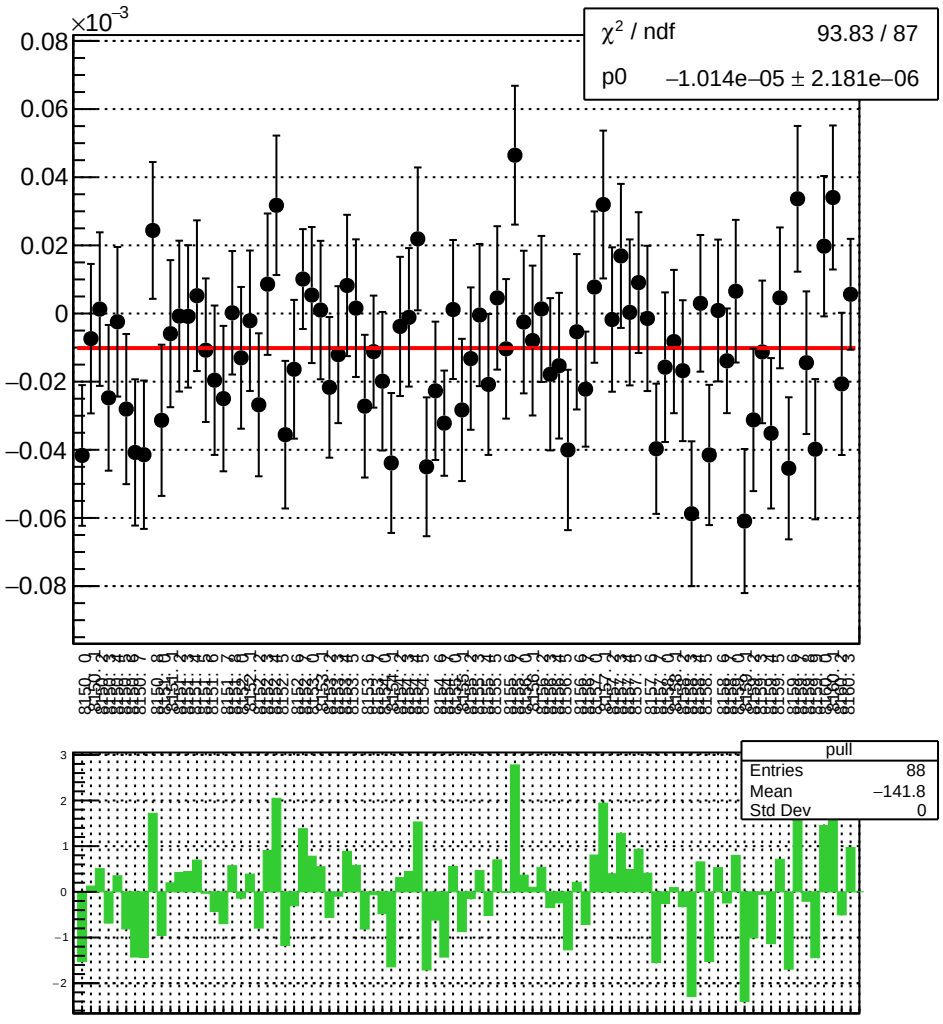

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.347e+05 / 87
p0 1.311e−10 ± 1.429e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

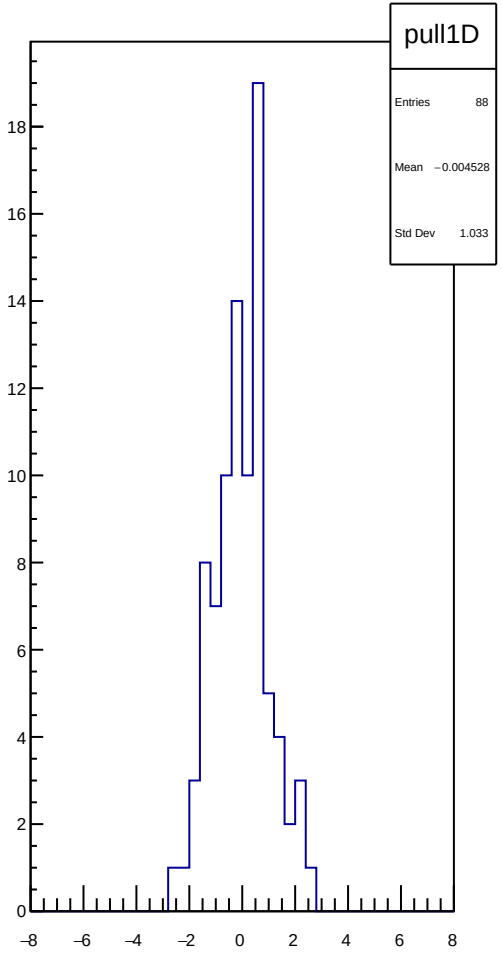

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 87
p0 −0.09539 ± 0.07703
pull
Entries 88
Mean −3.848
Std Dev 0
pull1D
Entries 88
Mean 0.03808
Std Dev 1.079

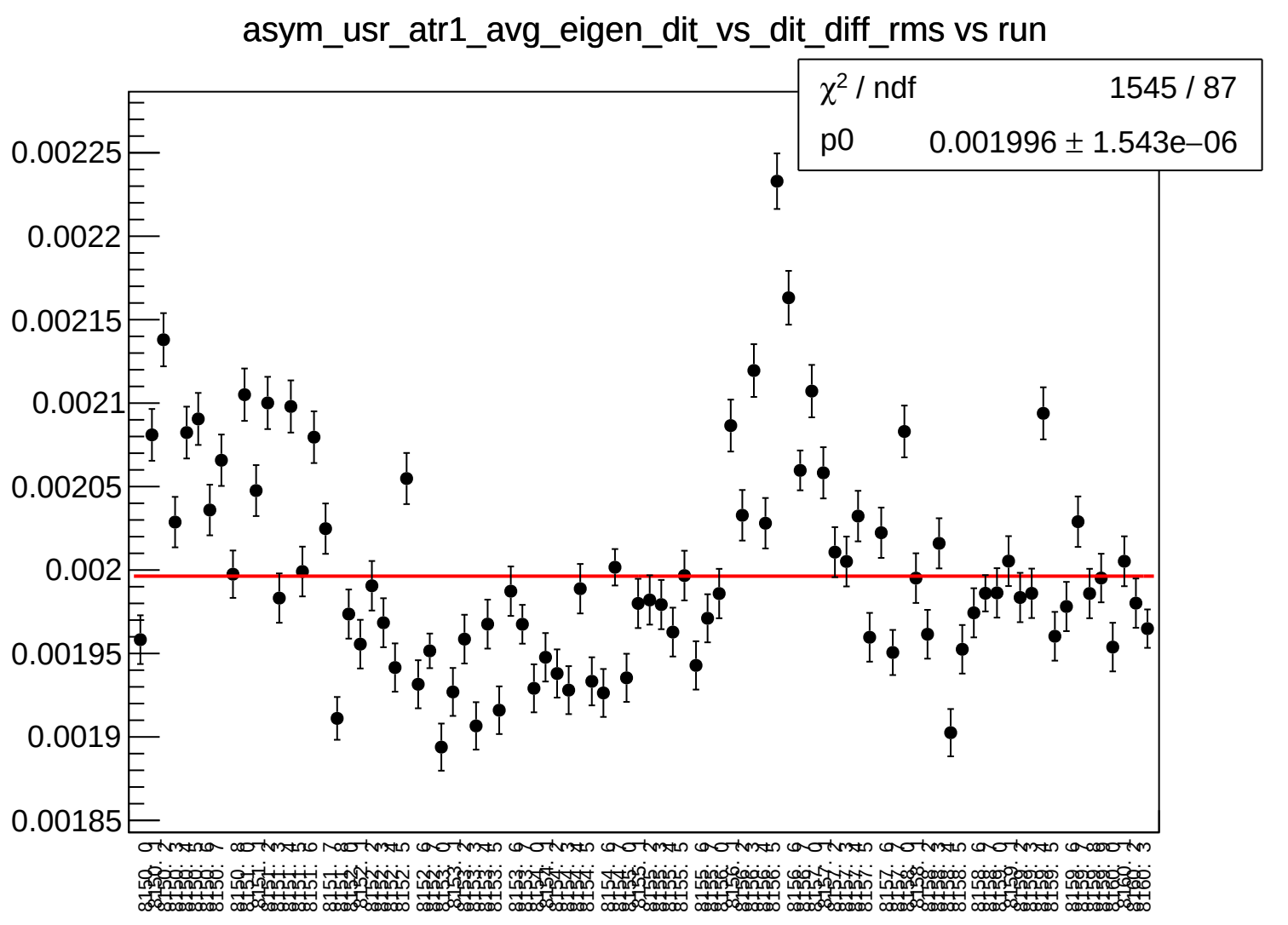

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 87
p0 67.82 ± 0.05447
160
140
120
100
80
60
40

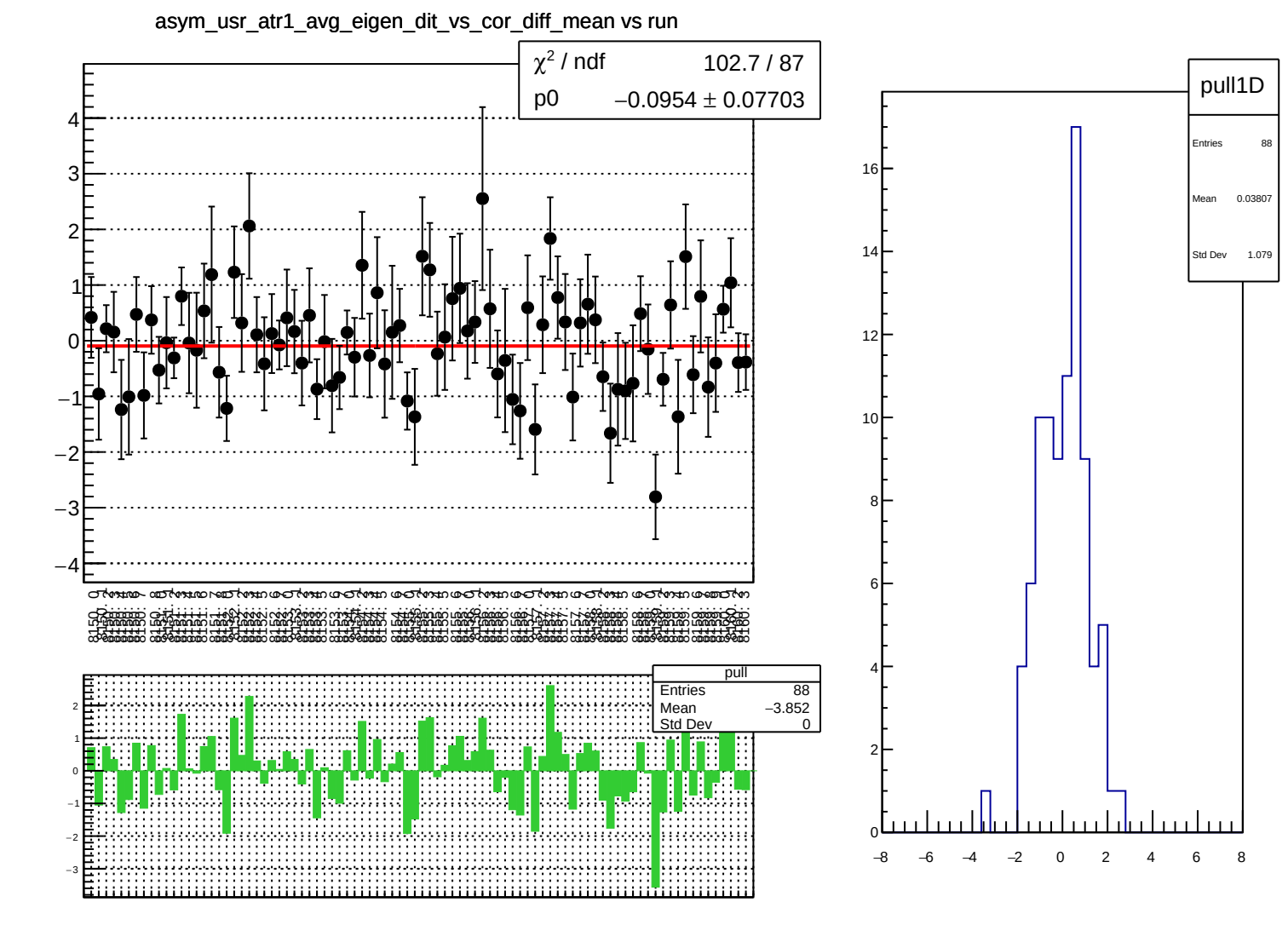

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.7 / 87
p0 −0.09539 ± 0.07703
pull
Entries 88
Mean −3.848
Std Dev 0
pull1D
Entries 88
Mean 0.03808
Std Dev 1.079

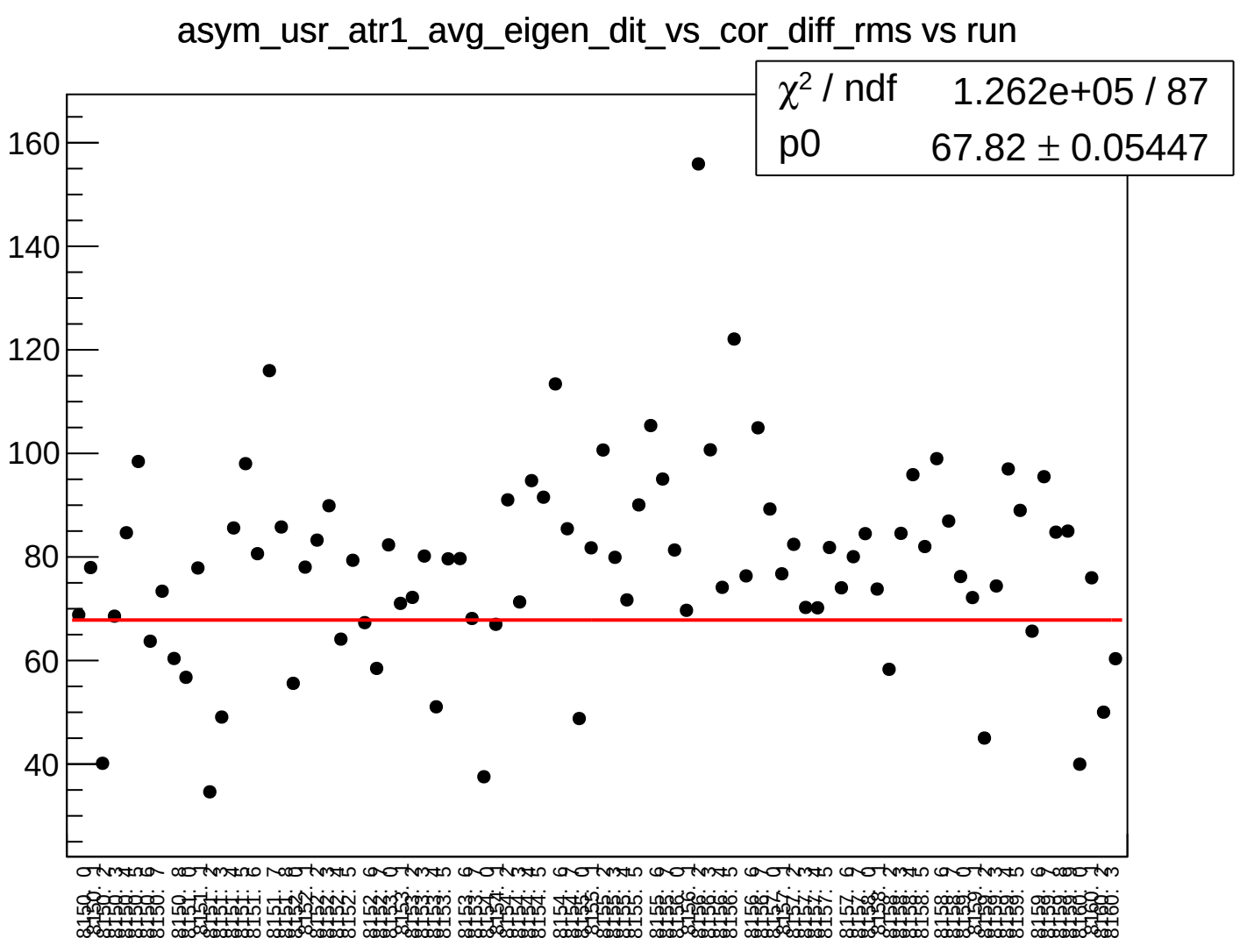

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 87
p0 67.82 ± 0.05447
160
140
120
100
80
60
40

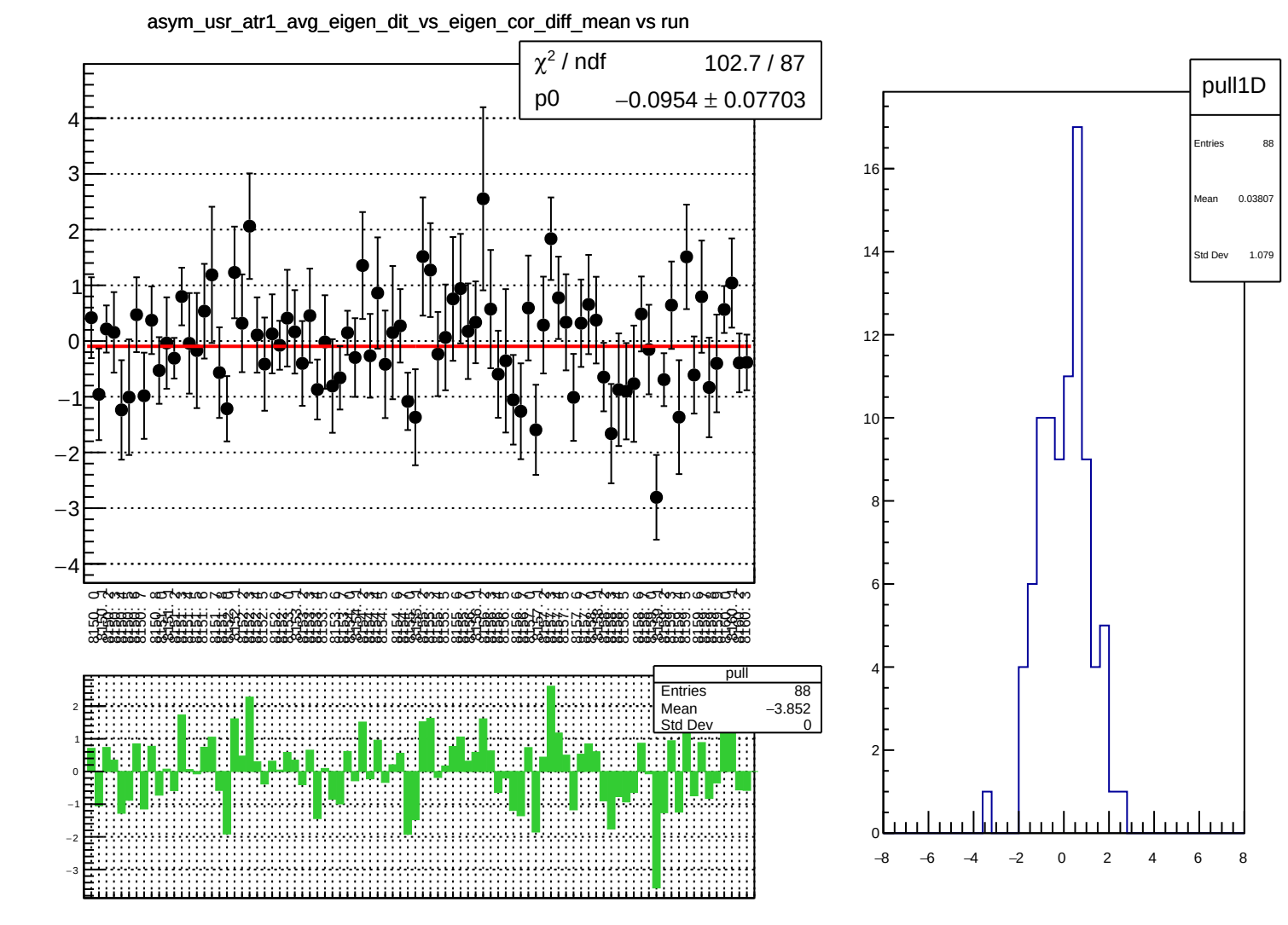

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 93.83 / 87
p0 −1.014e−05 ± 2.181e−06
pull
Entries 88
Mean −141.8
Std Dev 0

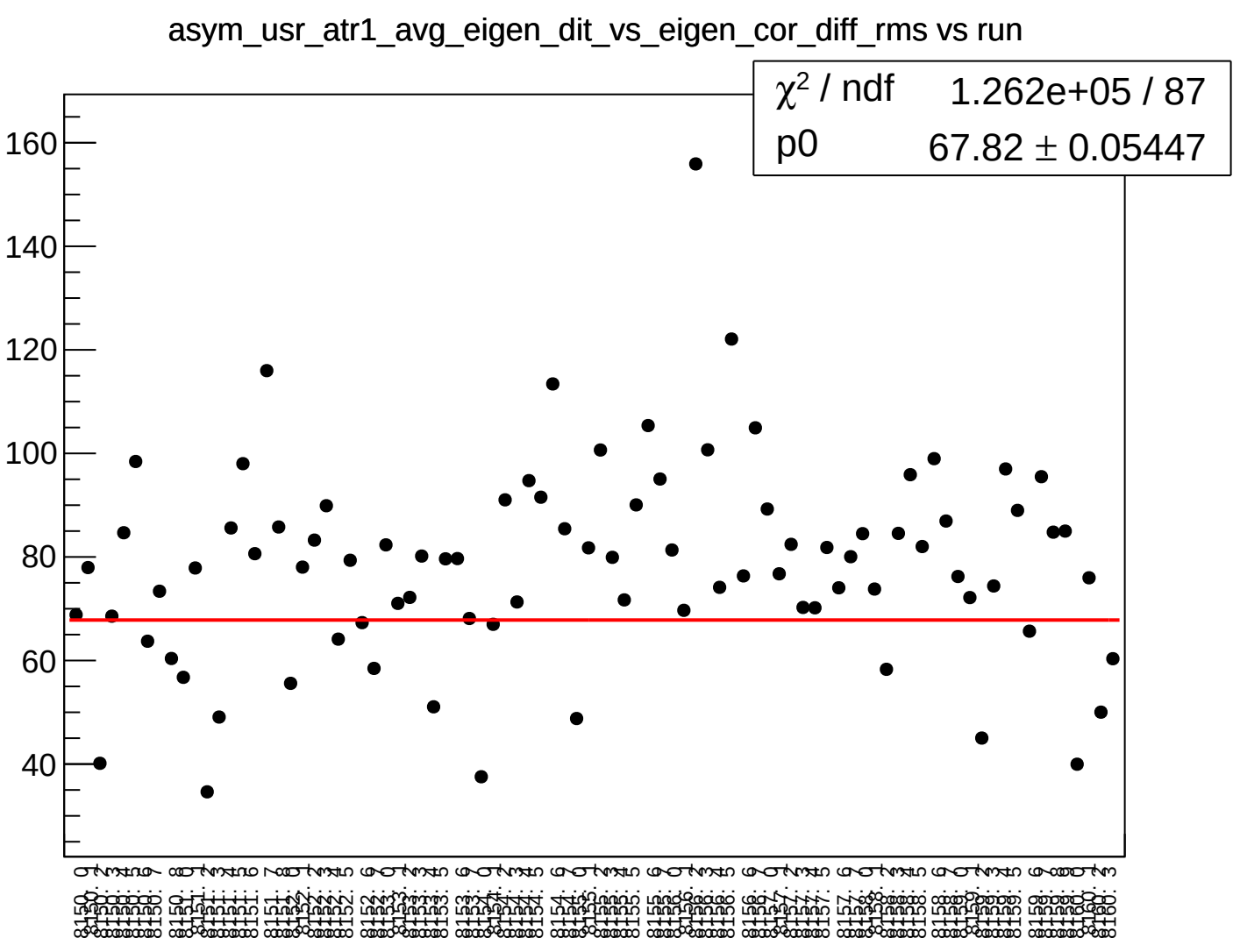

pull1D
Entries 88
Mean −0.004528
Std Dev 1.033

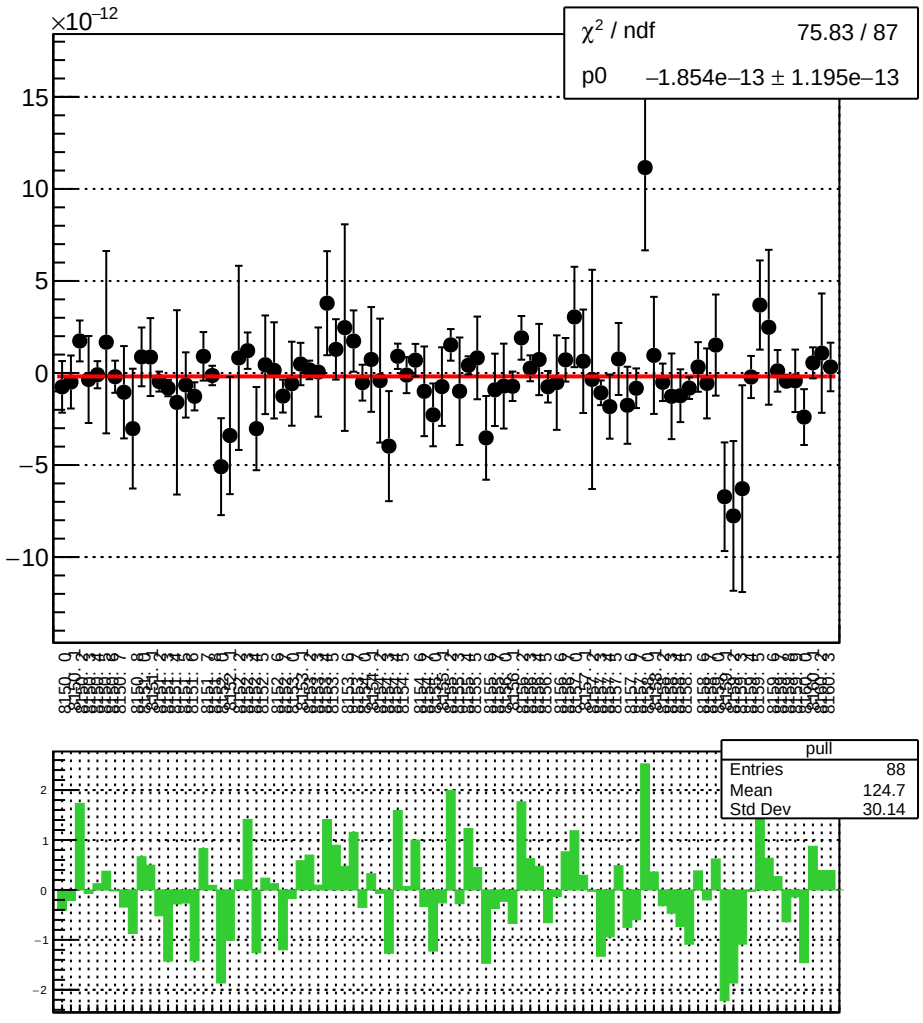

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1545 / 87
p0 0.001996 ± 1.543e−06
0.00225
0.0022
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
0.00185

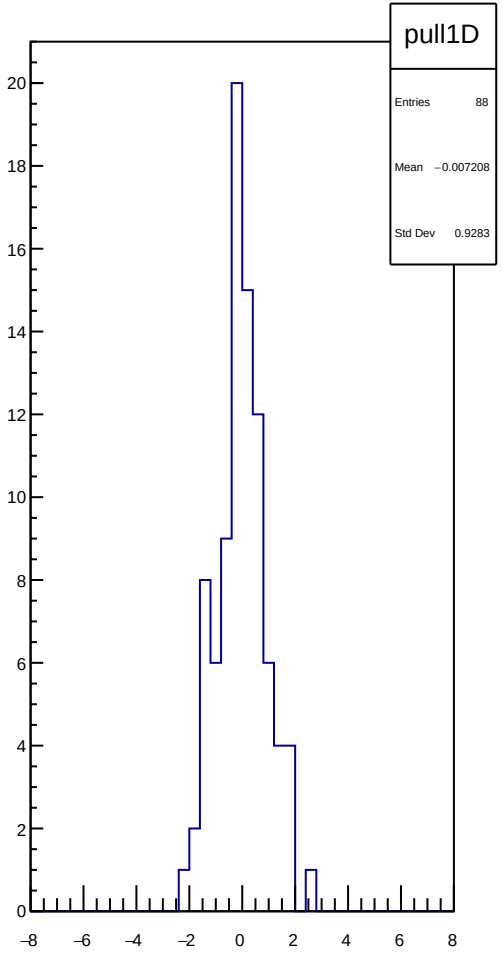

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 87
p0 −0.0954 ± 0.07703
pull
Entries 88
Mean −3.852
Std Dev 0
pull1D
Entries 88
Mean 0.03807
Std Dev 1.079

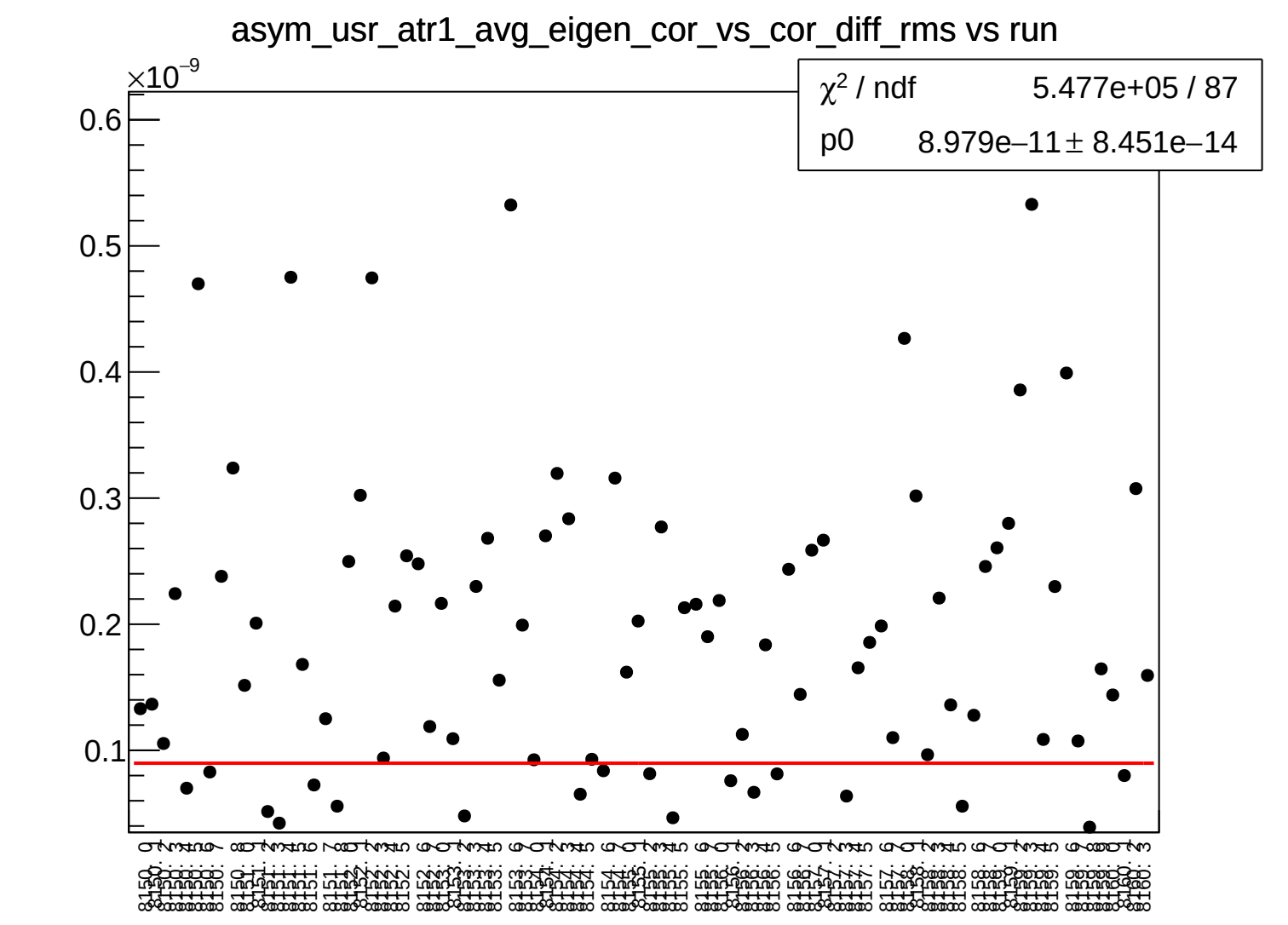

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 87
p0 67.82 ± 0.05447
160
140
120
100
80
60
40

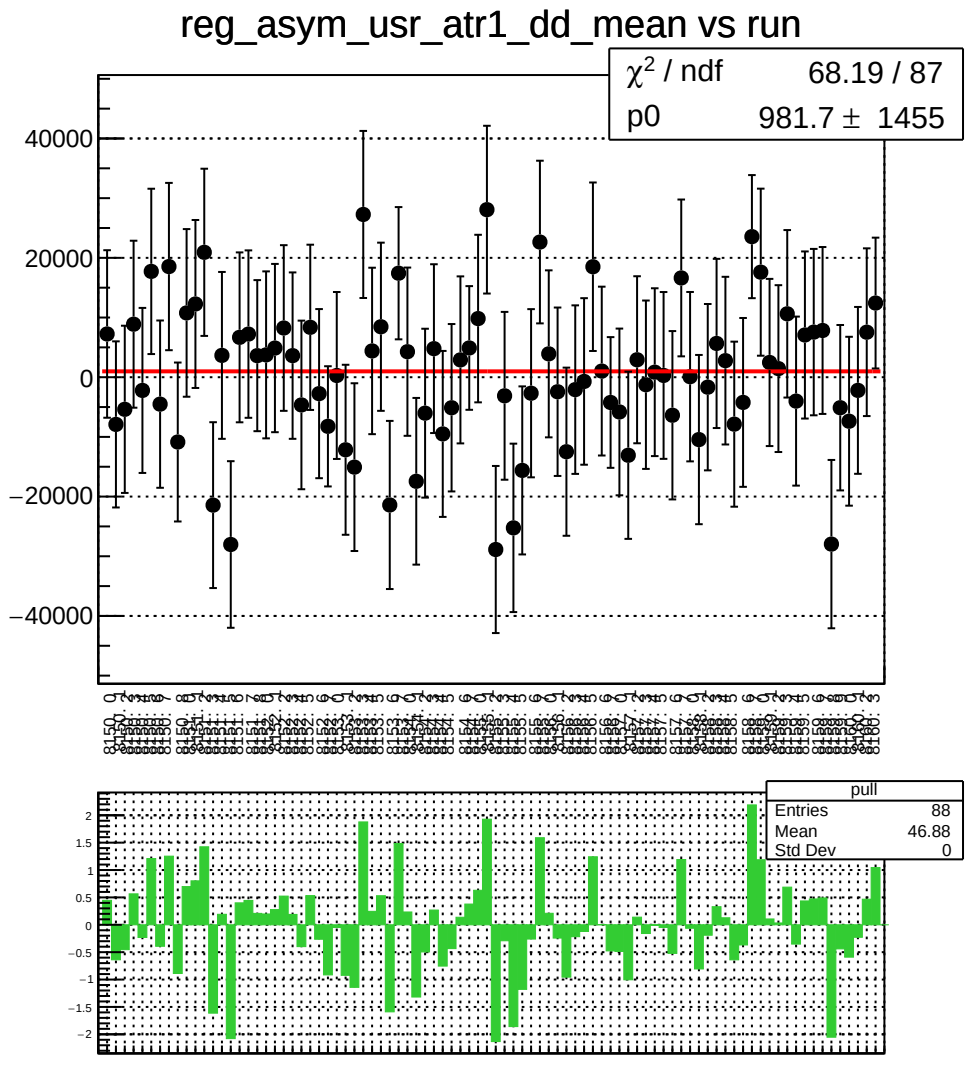

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.7 / 87
p0 −0.0954 ± 0.07703
pull
Entries 88
Mean −3.852
Std Dev 0
pull1D
Entries 88
Mean 0.03807
Std Dev 1.079

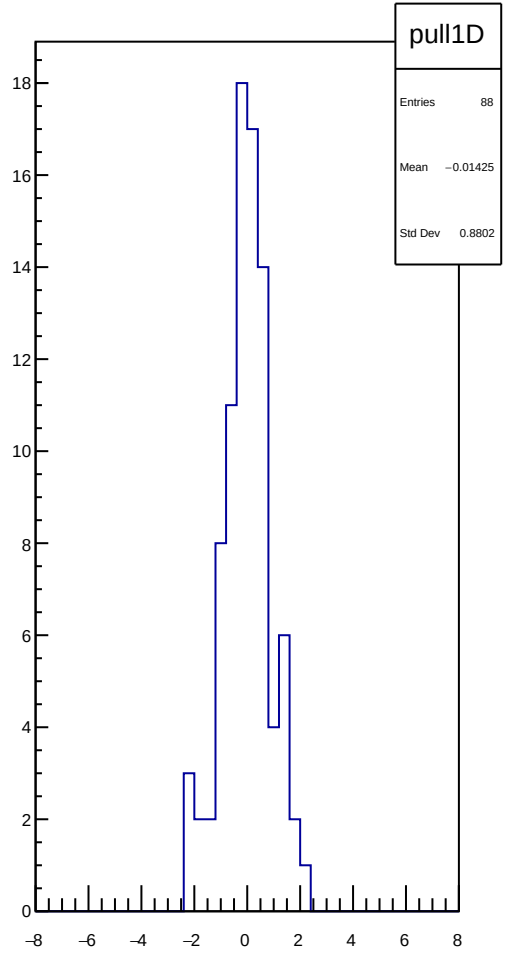

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 87
p0 67.82 ± 0.05447
160
140
120
100
80
60
40

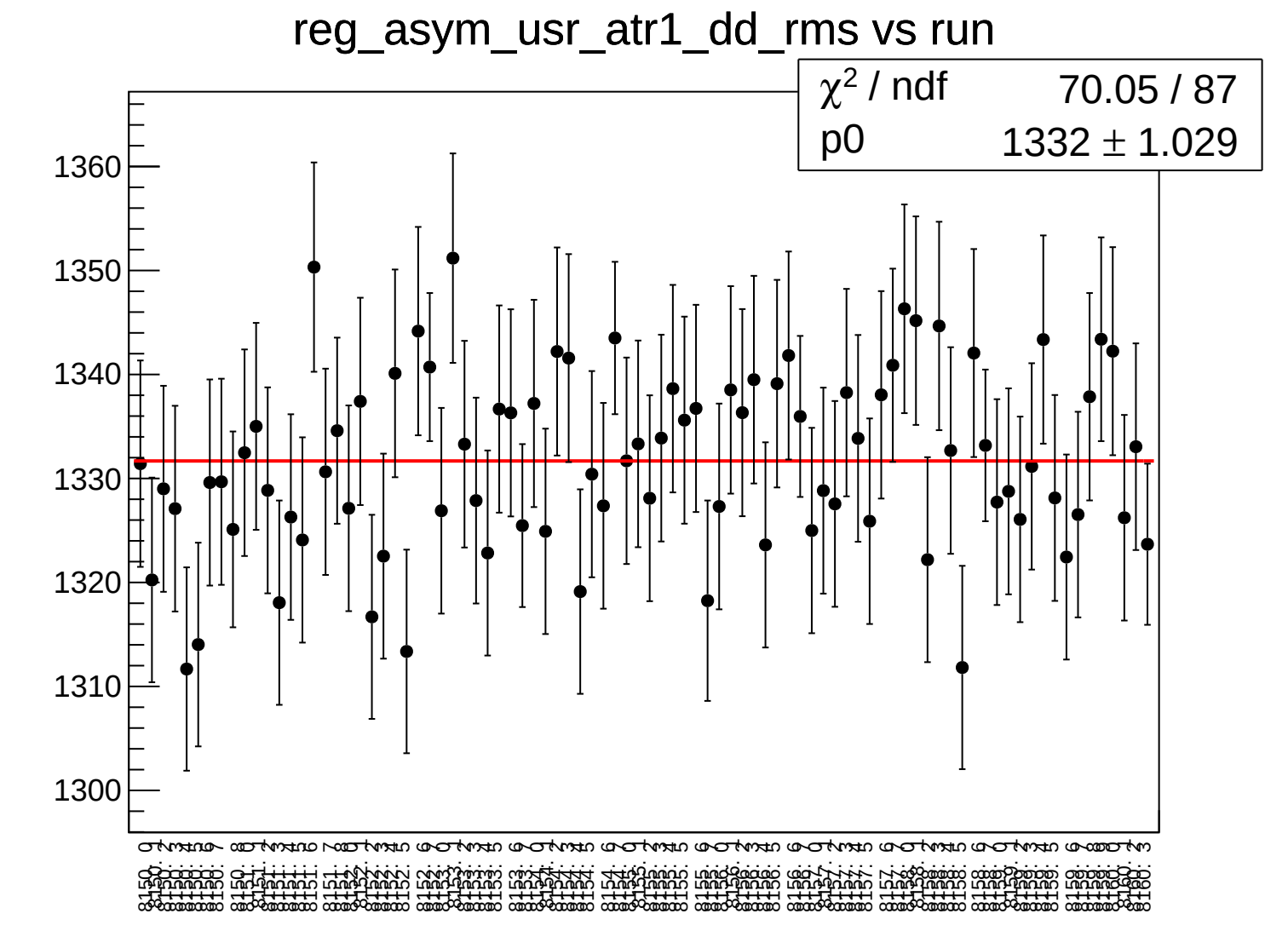

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.83 / 87
p0 −1.854e−13 ± 1.195e−13
pull
Entries 88
Mean 124.7
Std Dev 30.14

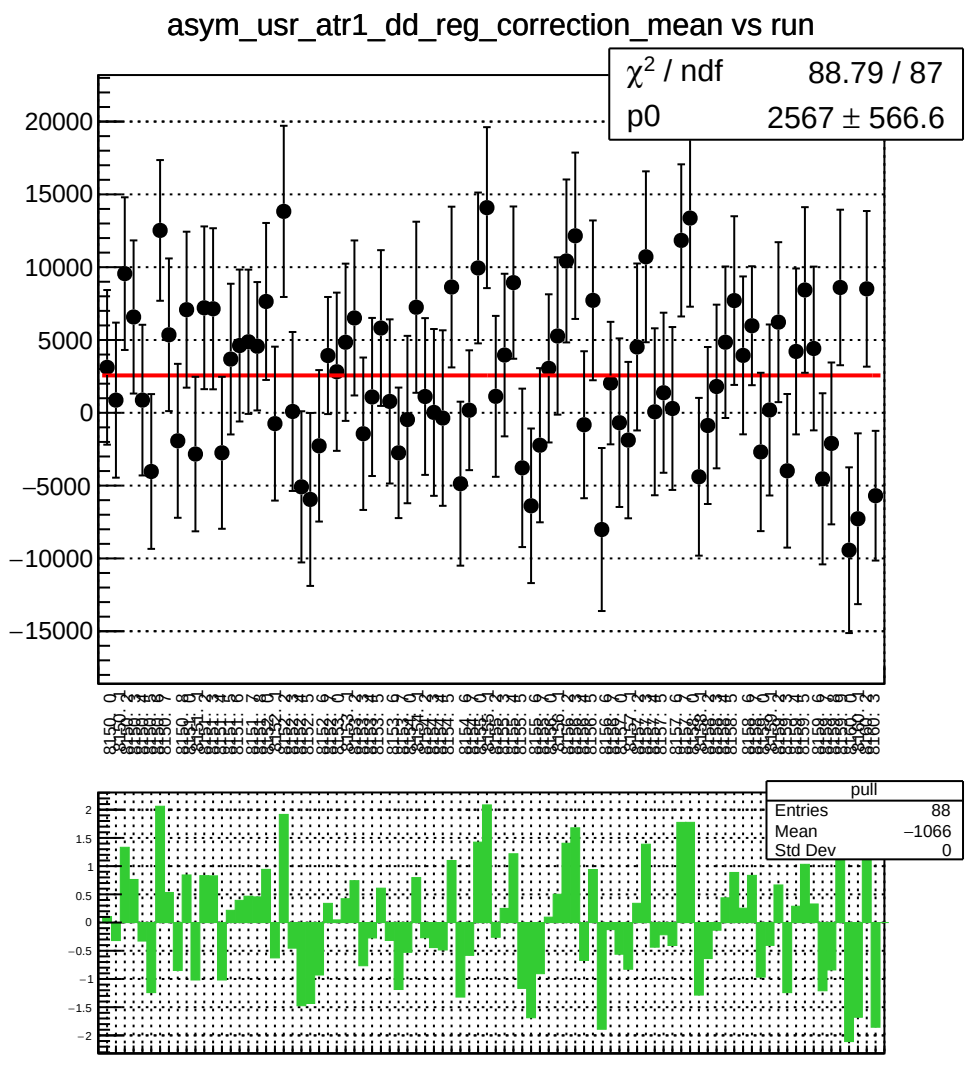

pull1D
Entries 88
Mean −0.007208
Std Dev 0.9283

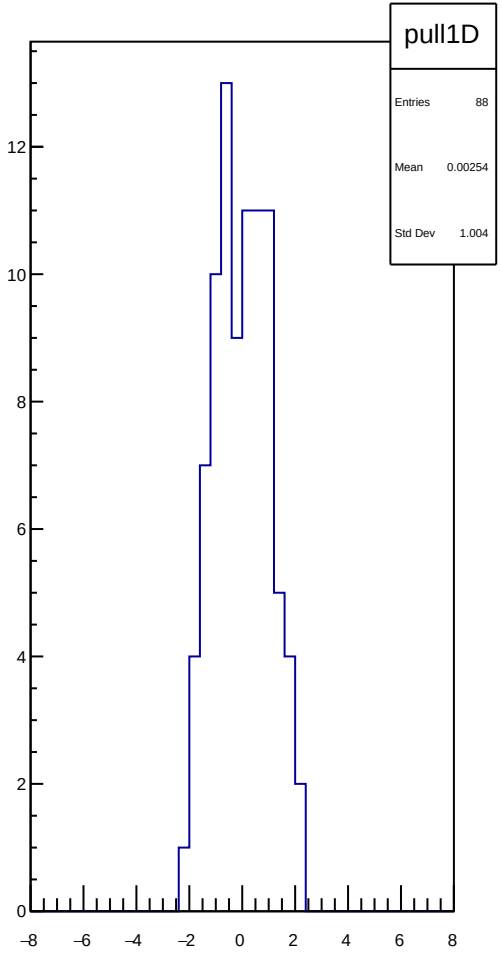

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.477e+05 / 87
p0 8.979e−11 ± 8.451e−14
0.6
0.5
0.4
0.3
0.2
0.1

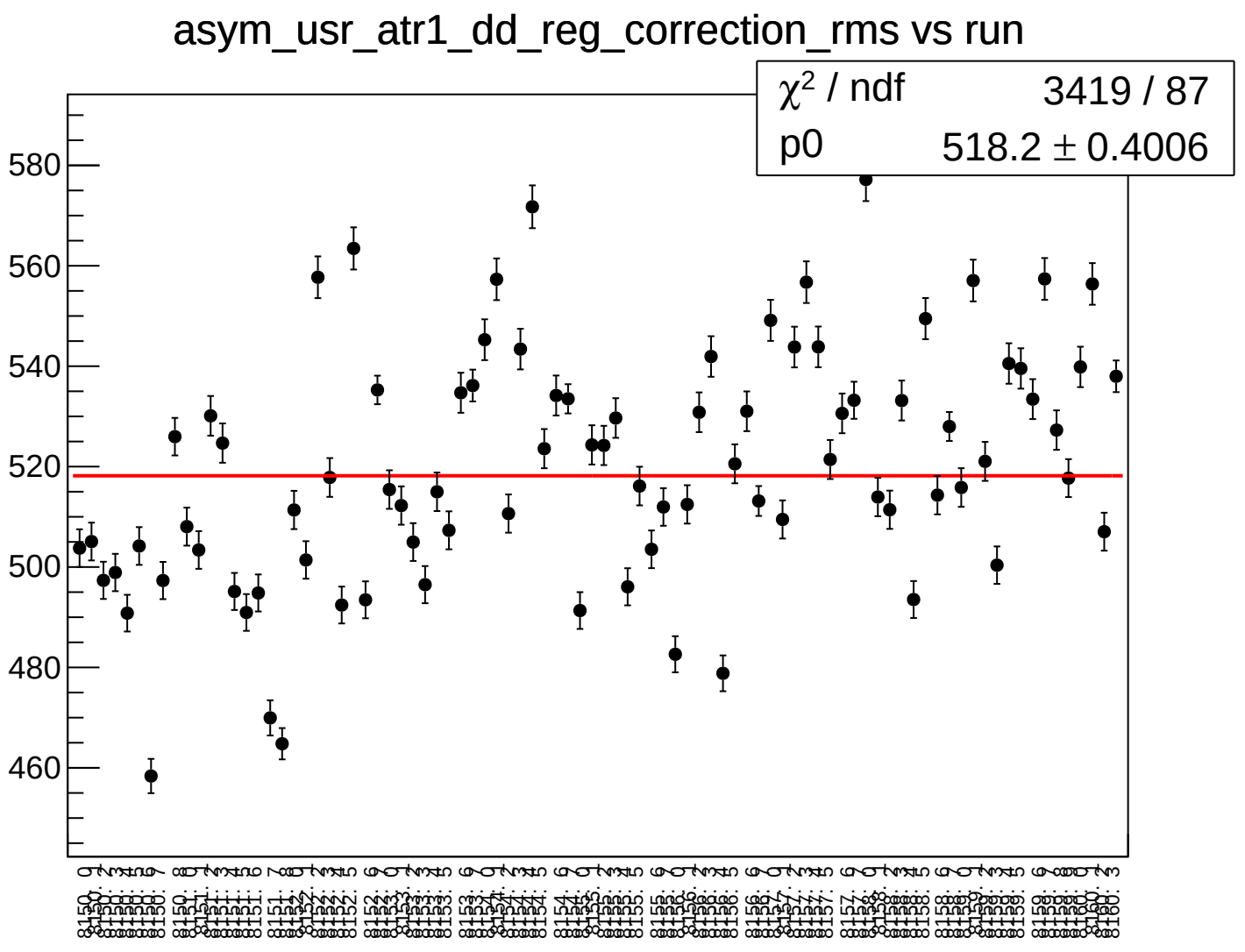

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 68.19 / 87
p0 981.7 ± 1455
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 46.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

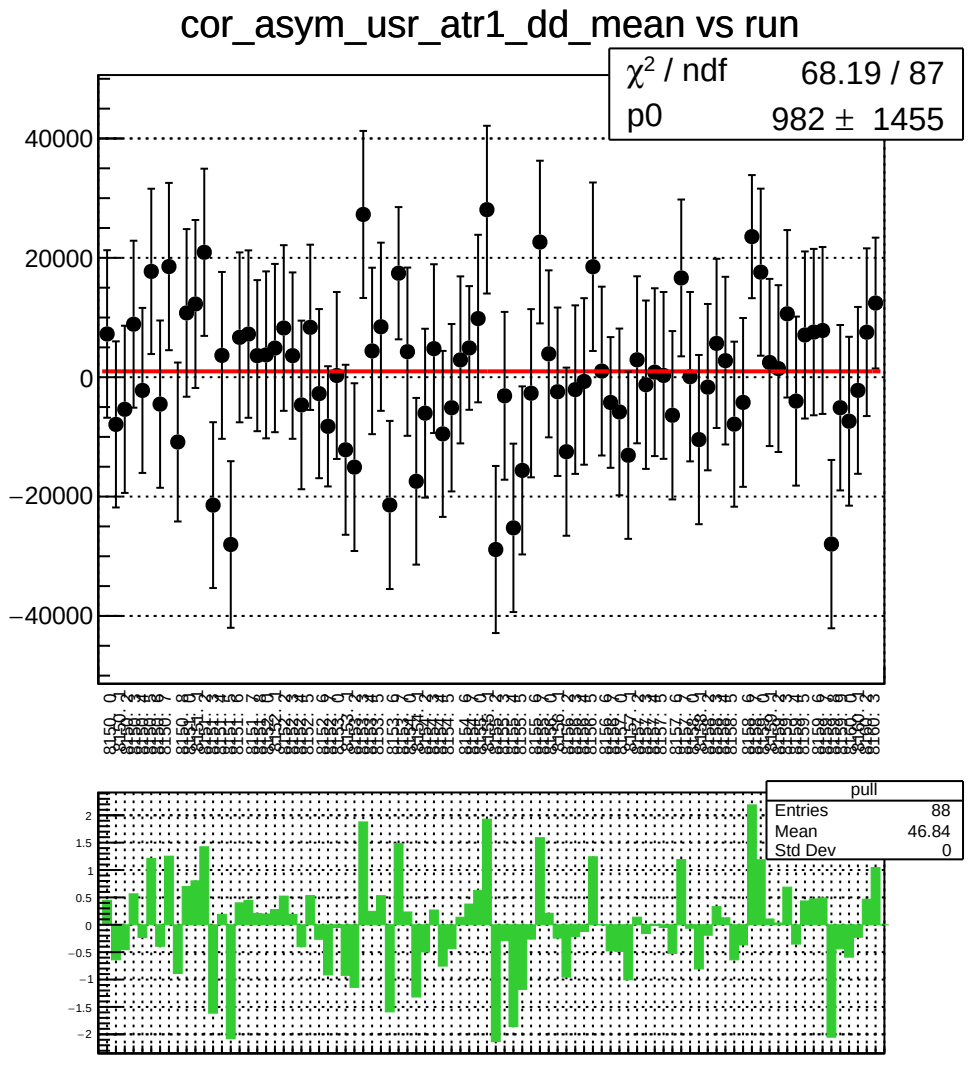

pull1D
Entries 88
Mean −0.01425
Std Dev 0.8802
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

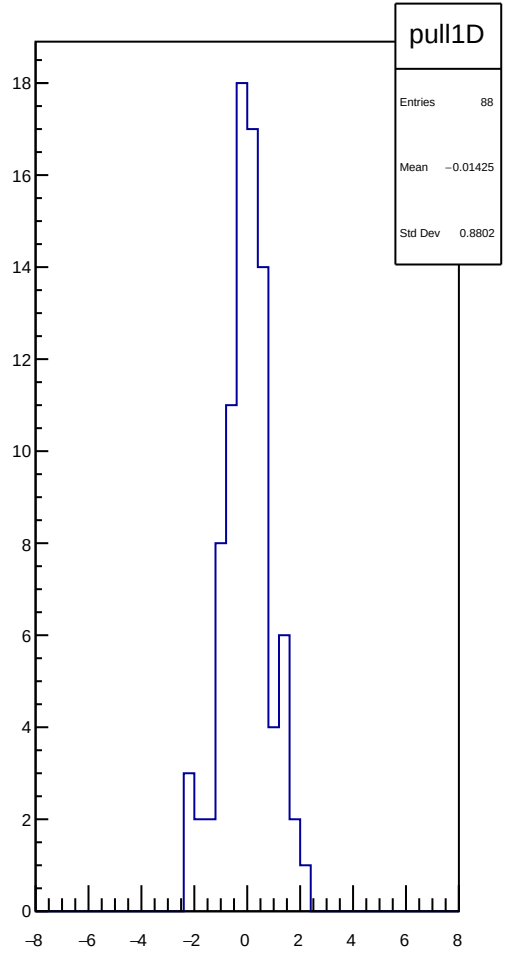

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 70.05 / 87
p0 1332 ± 1.029
1360
1350
1340
1330
1320
1310
1300

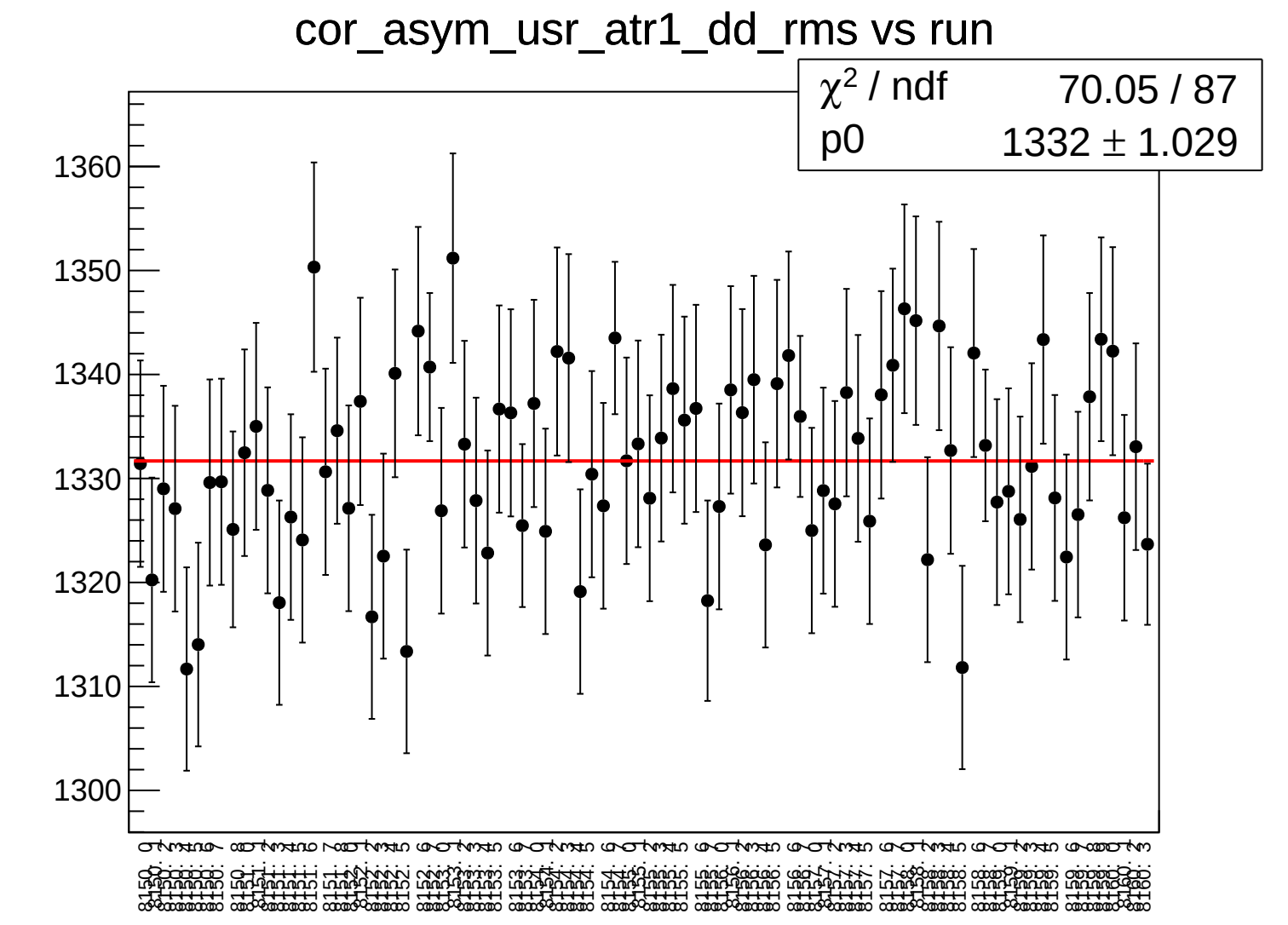

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 88.79 / 87
p0 2567 ± 566.6
pull
Entries 88
Mean −1066
Std Dev 0

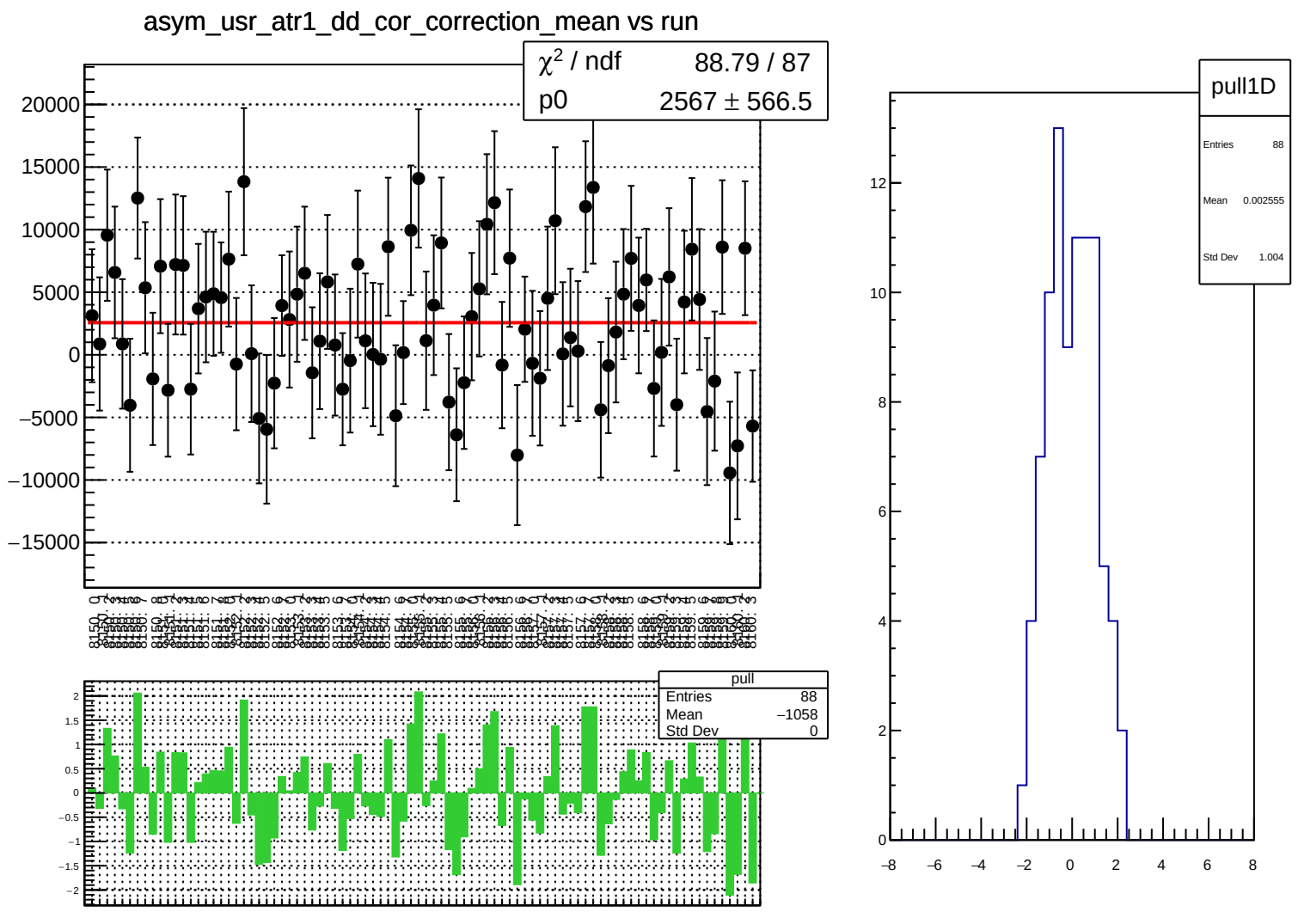

pull1D
Entries 88
Mean 0.00254
Std Dev 1.004

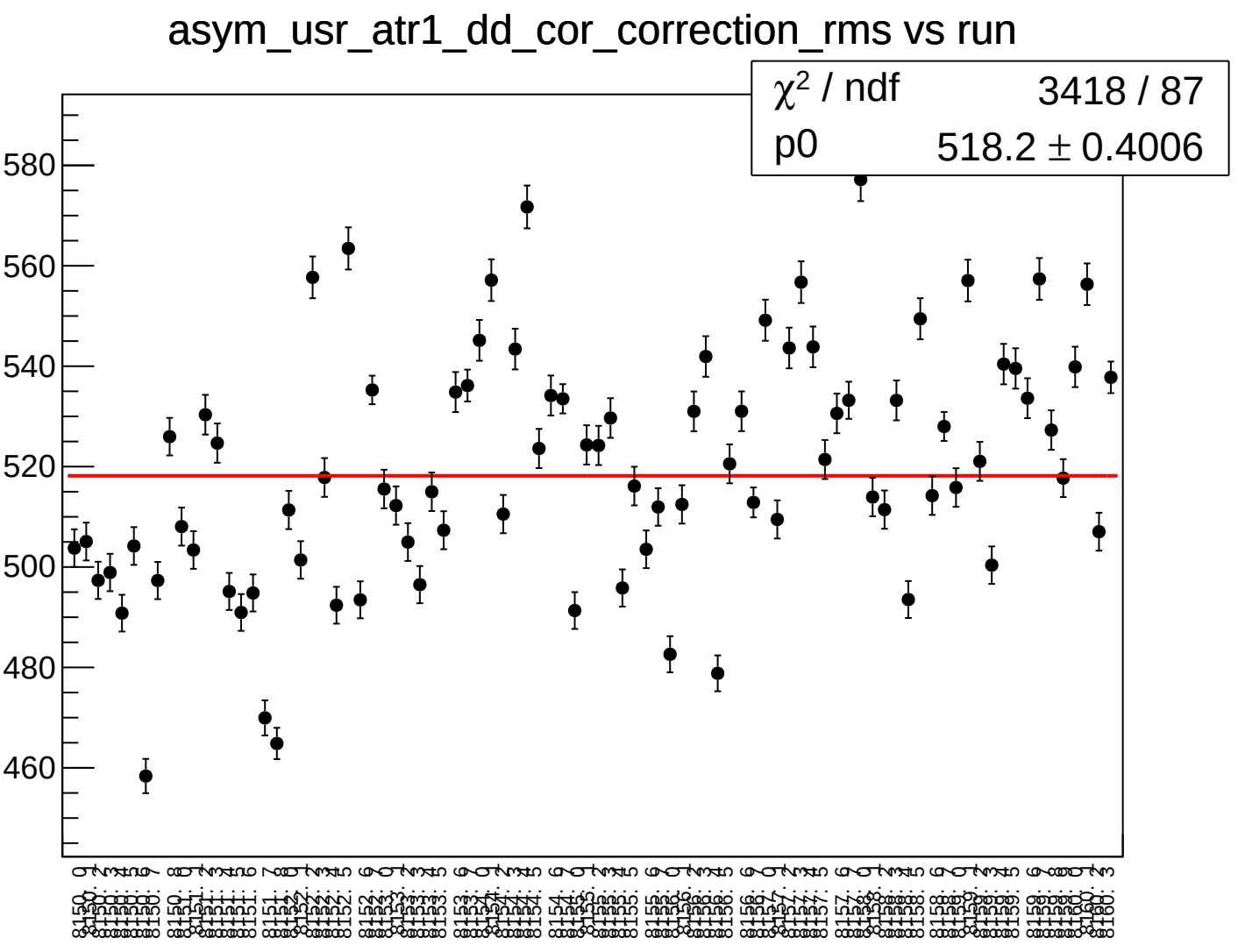

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 3419 / 87
p0 518.2 ± 0.4006
580
560
540
520
500
480
460

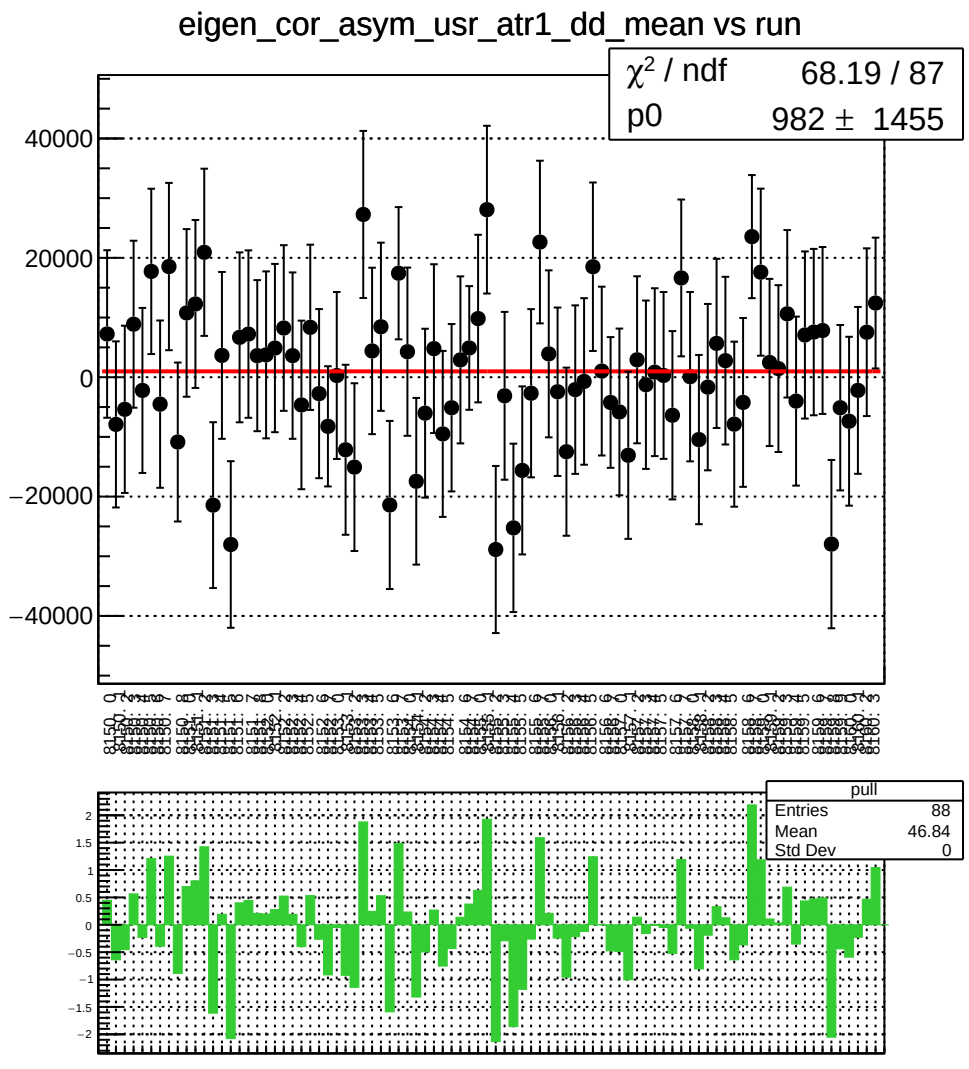

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 68.19 / 87
p0 982 ± 1455
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 46.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

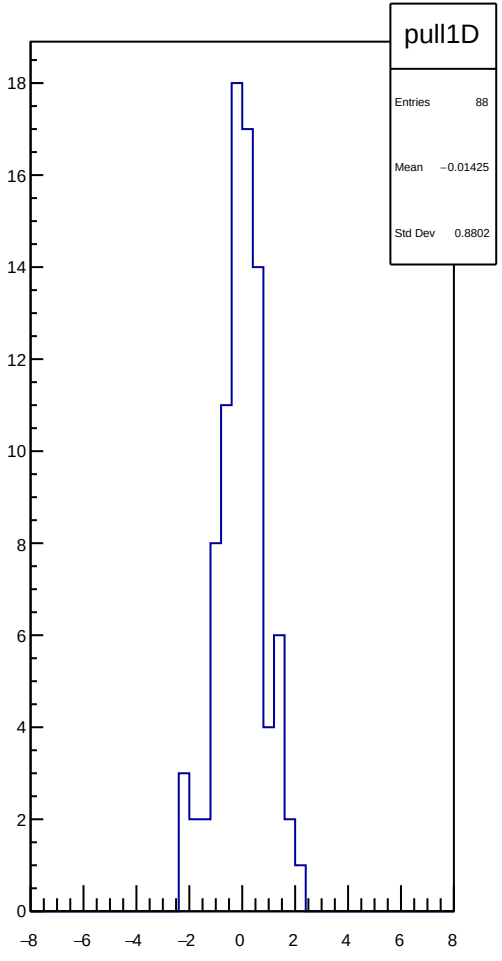

pull1D
Entries 88
Mean −0.01425
Std Dev 0.8802
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

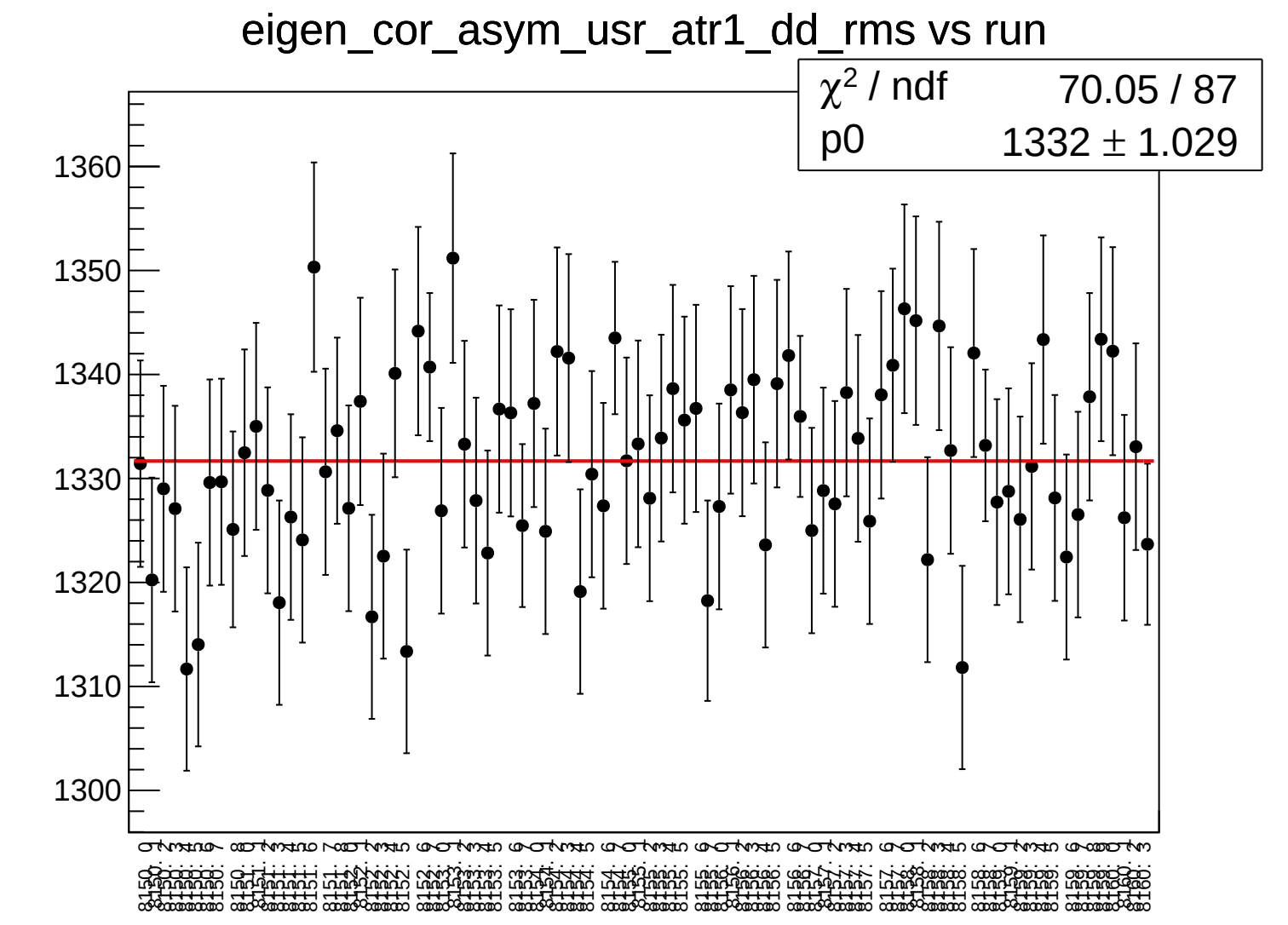

cor_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 70.05 / 87
p0 1332 ± 1.029
1360
1350
1340
1330
1320
1310
1300

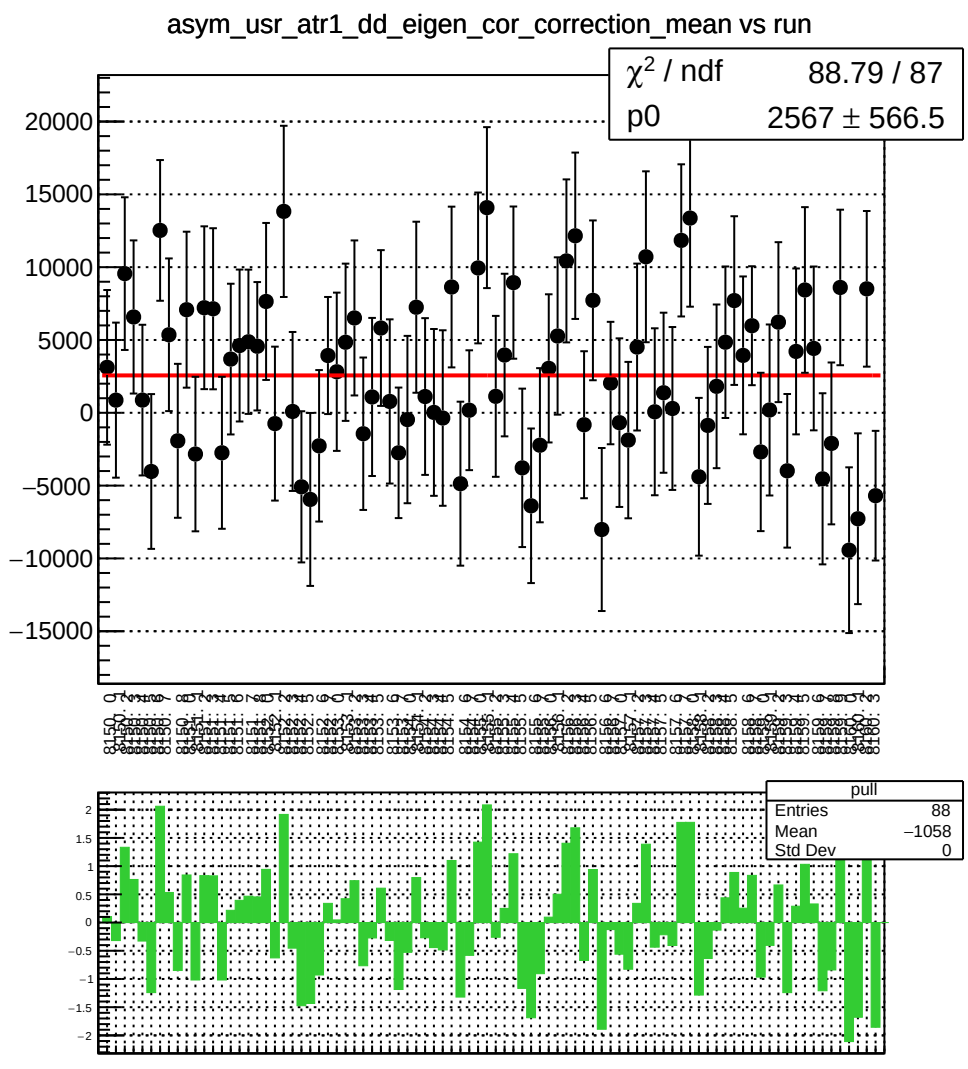

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 88.79 / 87
p0 2567 ± 566.5
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1058
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.002555
Std Dev 1.004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

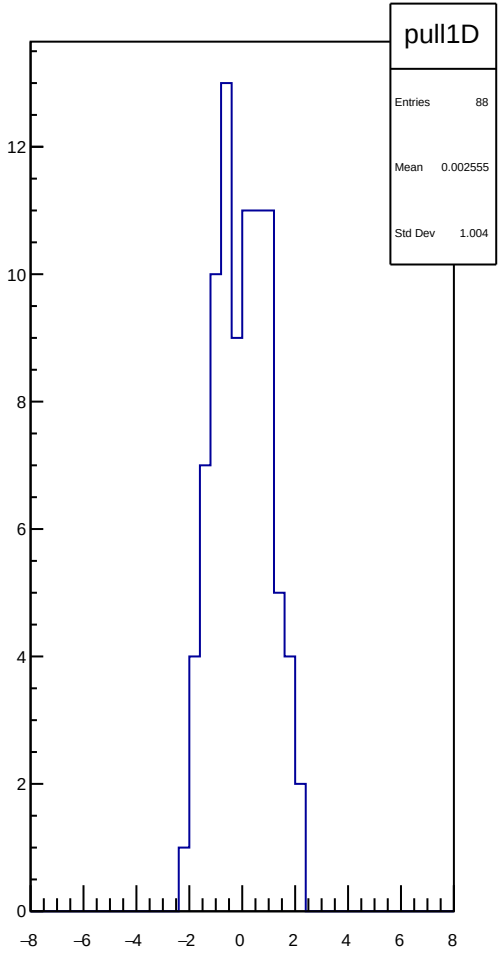

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 3418 / 87
p0 518.2 ± 0.4006
580
560
540
520
500
480
460

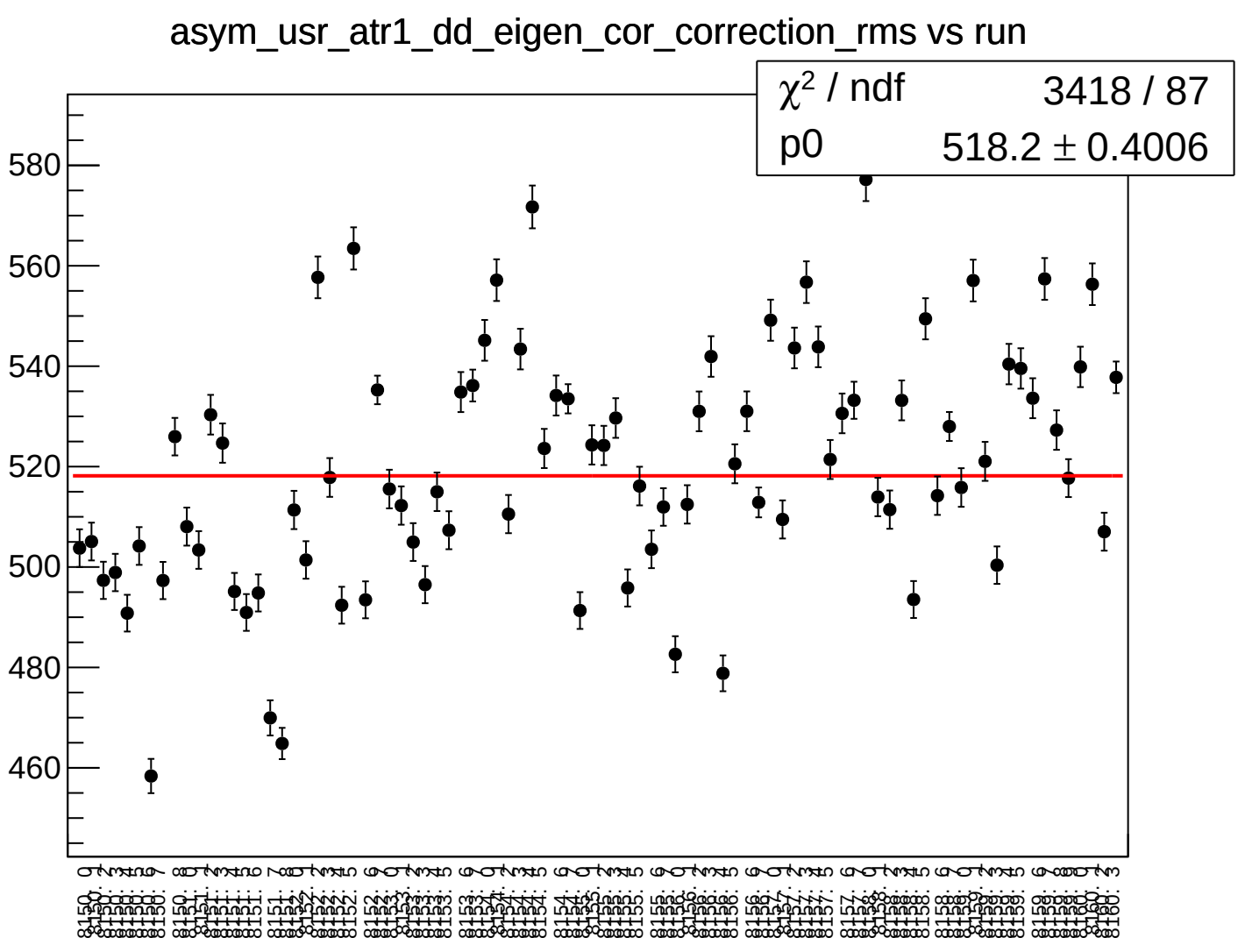

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 68.19 / 87
p0 982 ± 1455
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 46.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

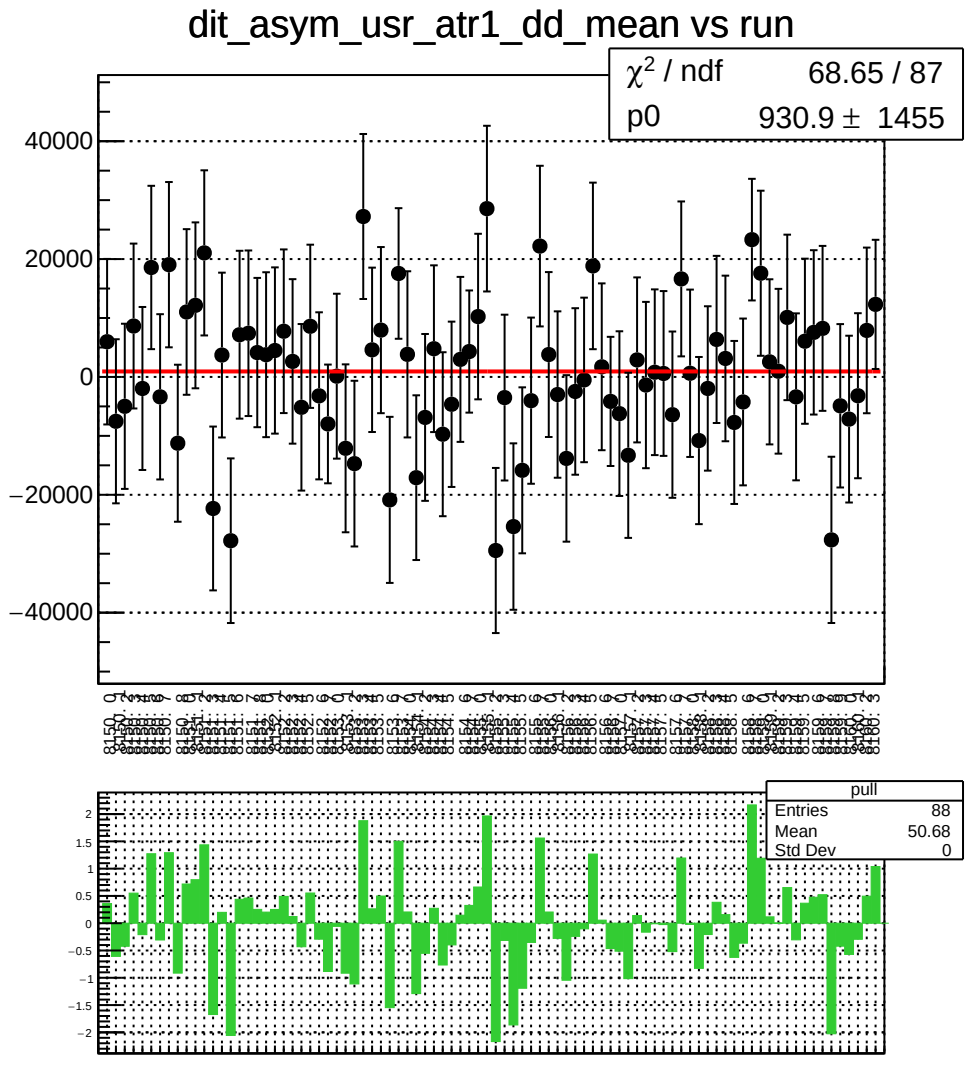

pull1D
Entries 88
Mean −0.01425
Std Dev 0.8802
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

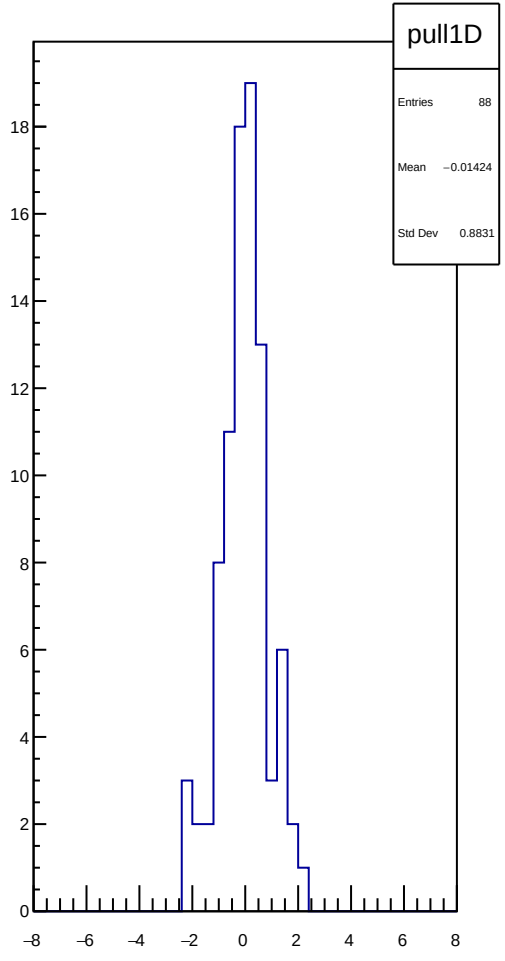

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 70.05 / 87
p0 1332 ± 1.029
1360
1350
1340
1330
1320
1310
1300

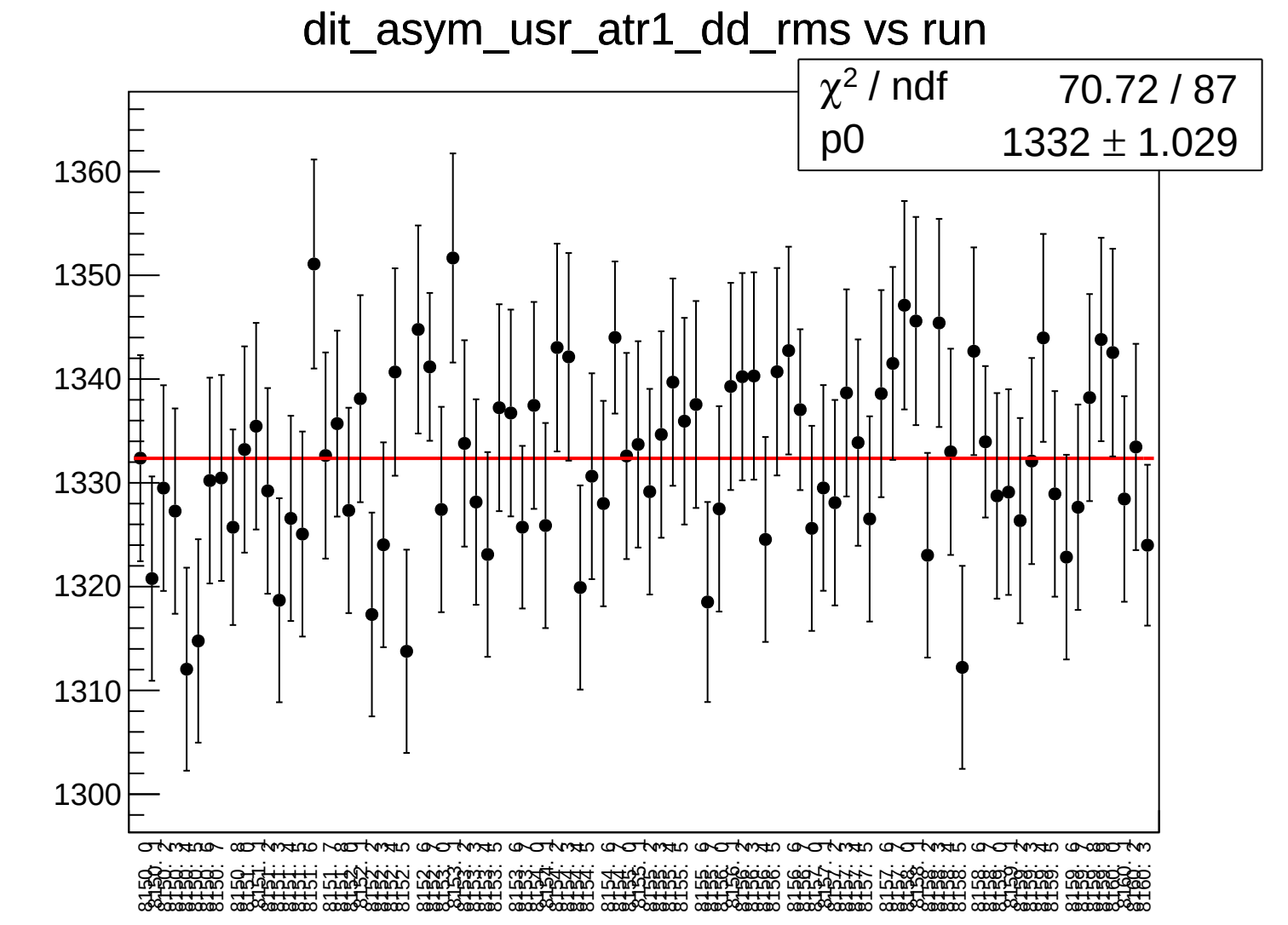

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.79 / 87
p0 2567 ± 566.5
pull
Entries 88
Mean −1058
Std Dev 0

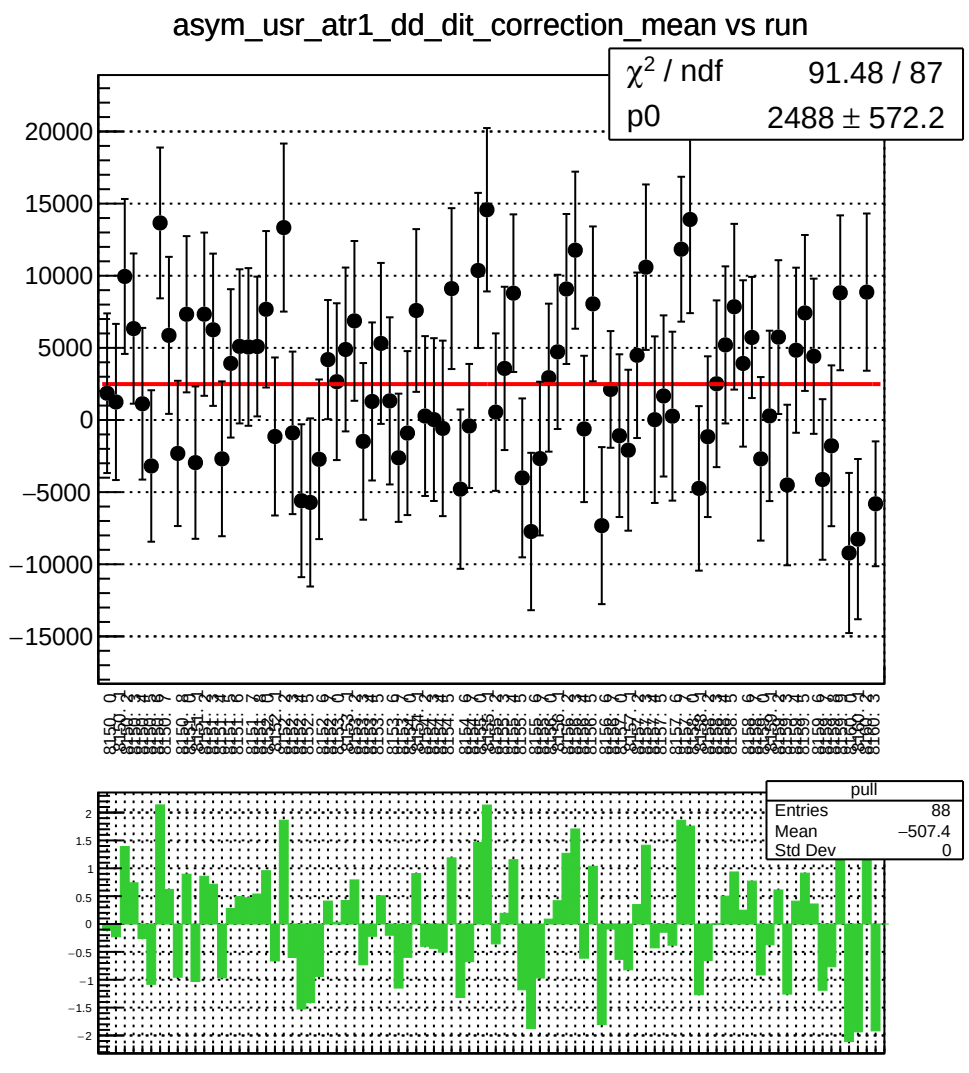

pull1D
Entries 88
Mean 0.002555
Std Dev 1.004

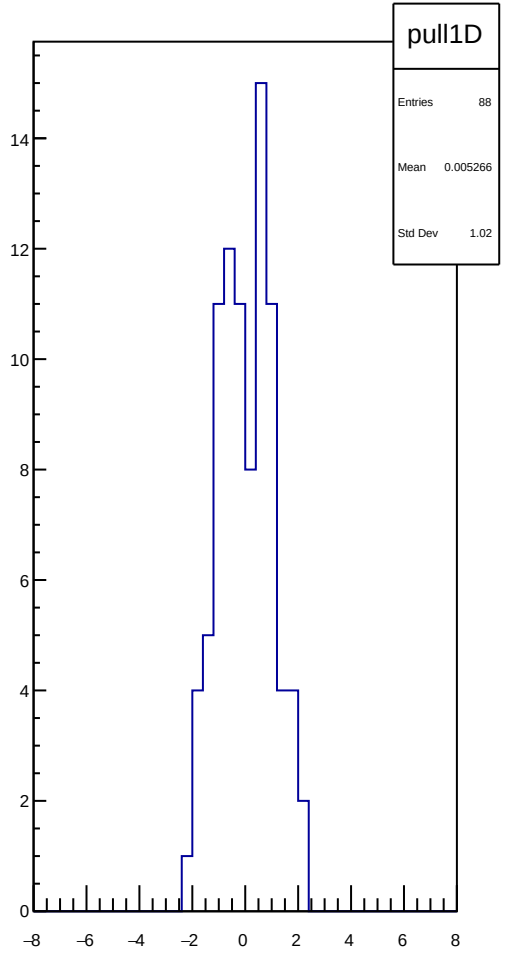

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3418 / 87
p0 518.2 ± 0.4006
580
560
540
520
500
480
460

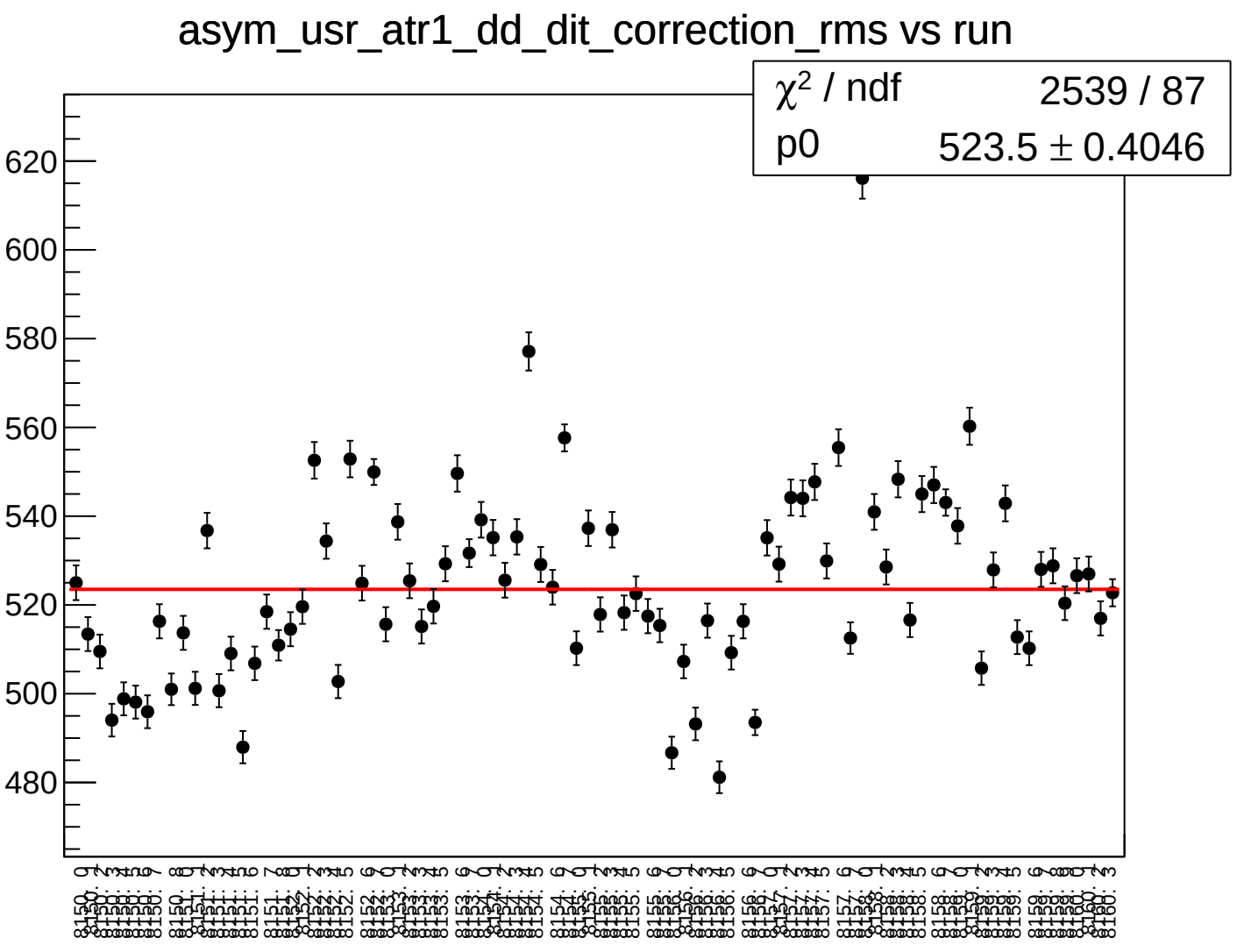

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 68.65 / 87
p0 930.9 ± 1455
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 50.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

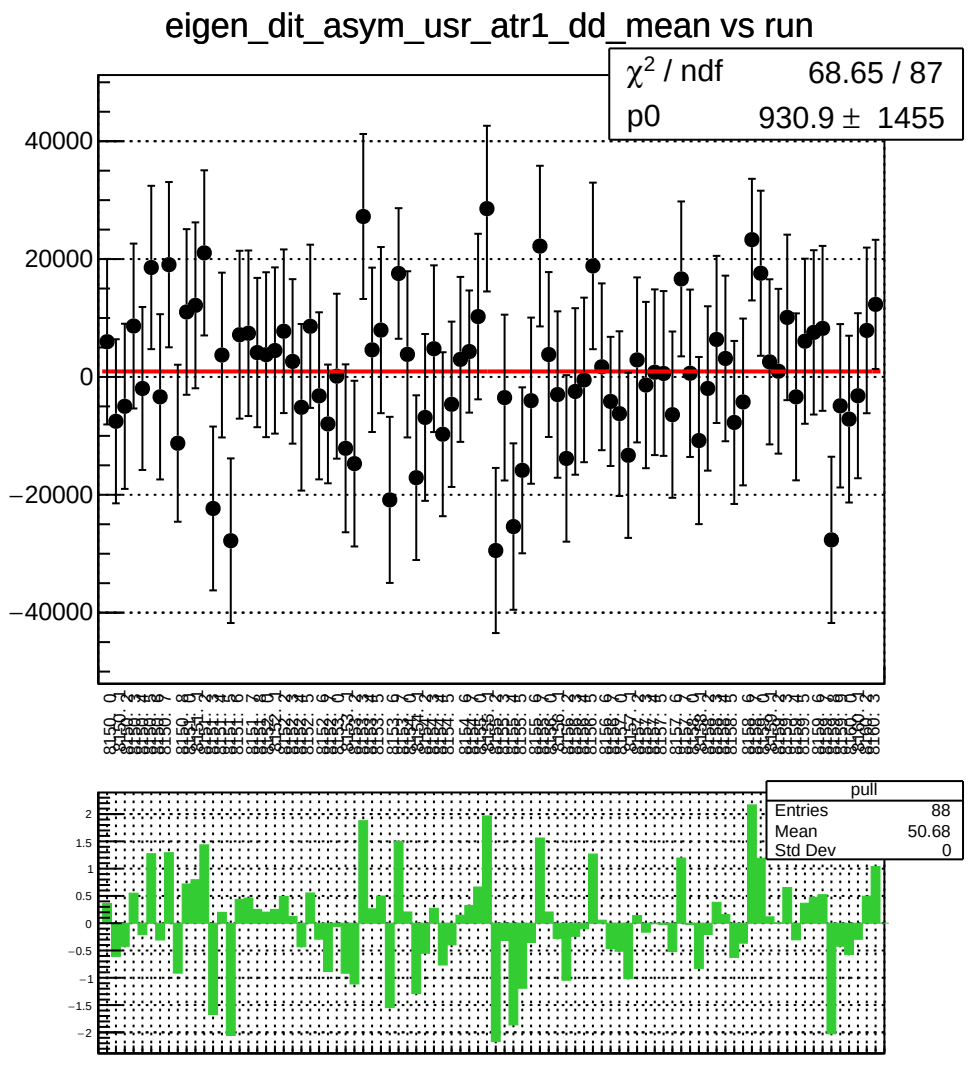

pull1D
Entries 88
Mean −0.01424
Std Dev 0.8831
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

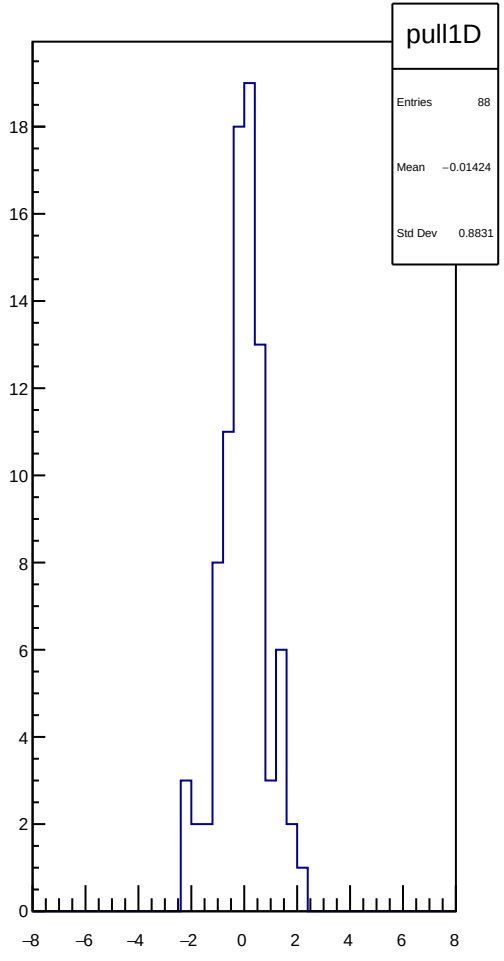

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 70.72 / 87
p0 1332 ± 1.029
1360
1350
1340
1330
1320
1310
1300

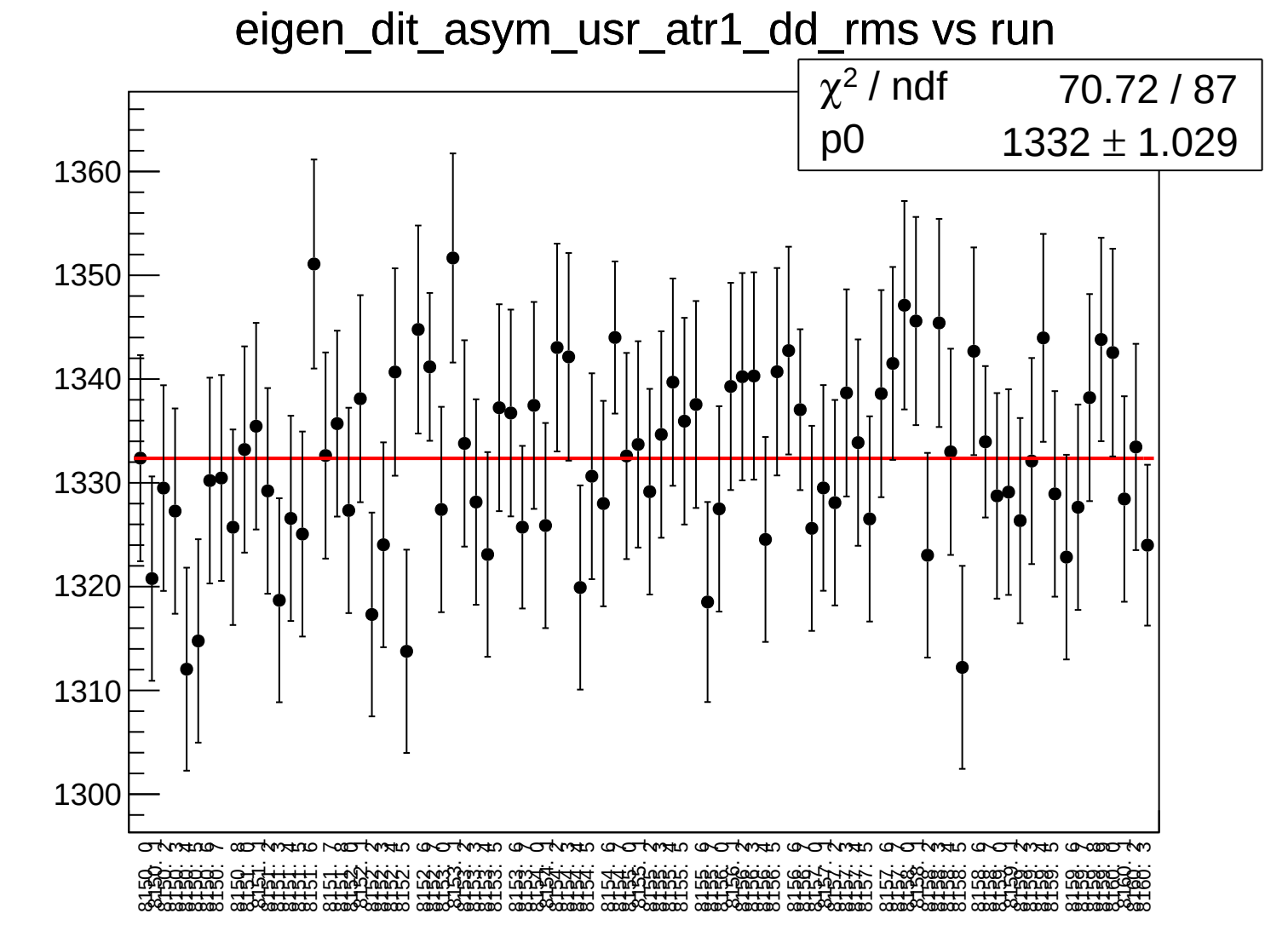

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 91.48 / 87
p0 2488 ± 572.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −507.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

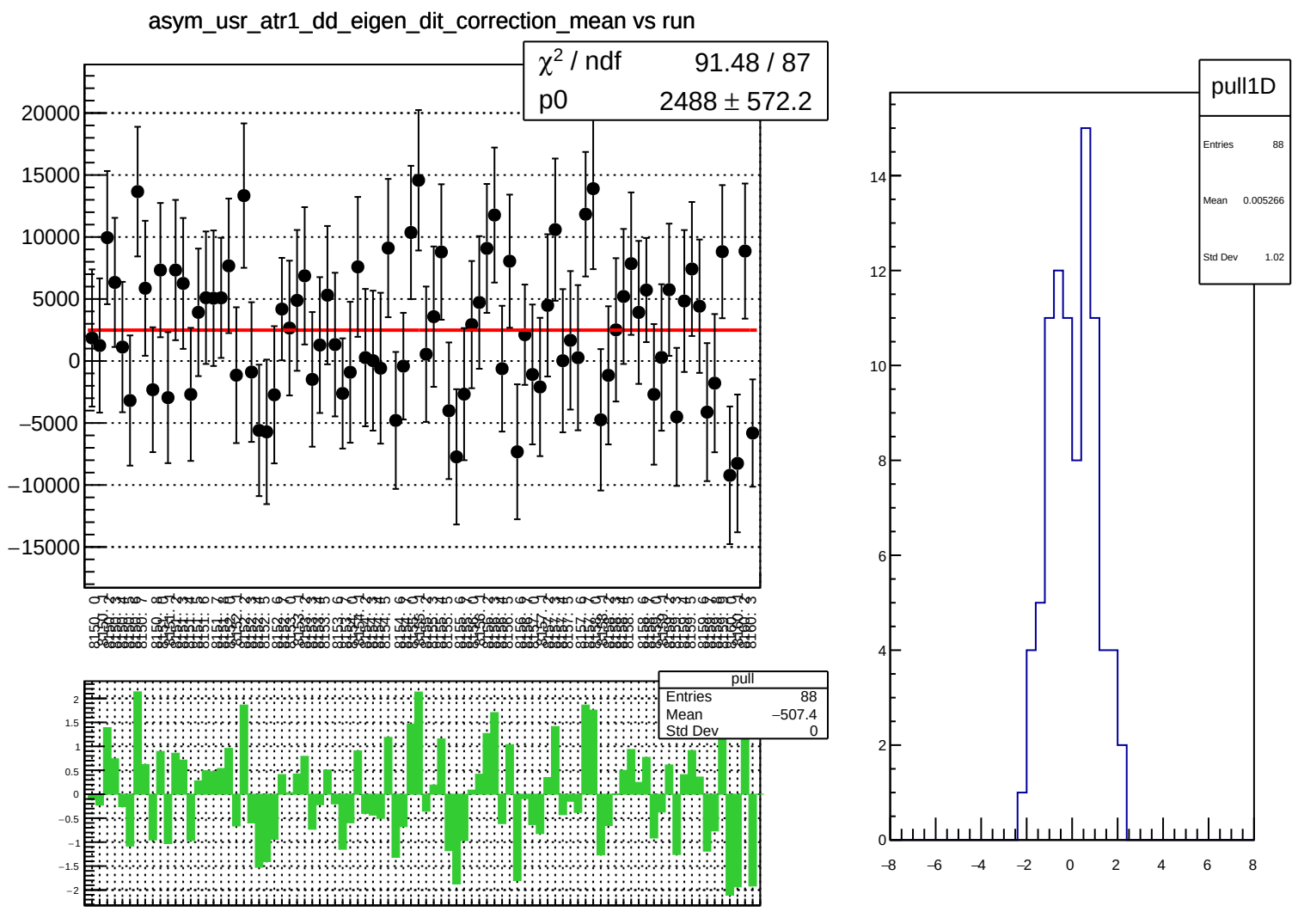

pull1D
Entries 88
Mean 0.005266
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

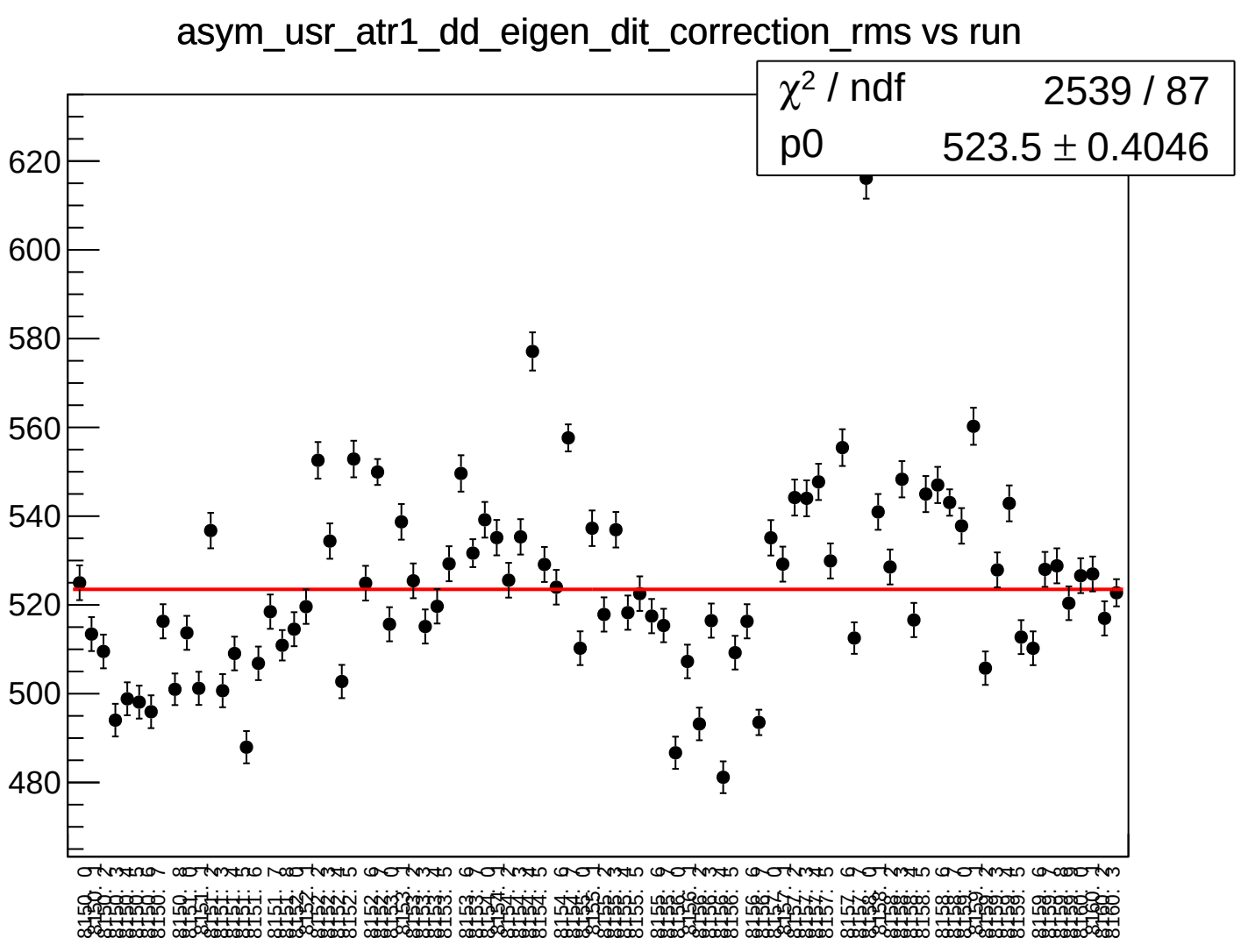

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 2539 / 87
p0 523.5 ± 0.4046
620
600
580
560
540
520
500
480

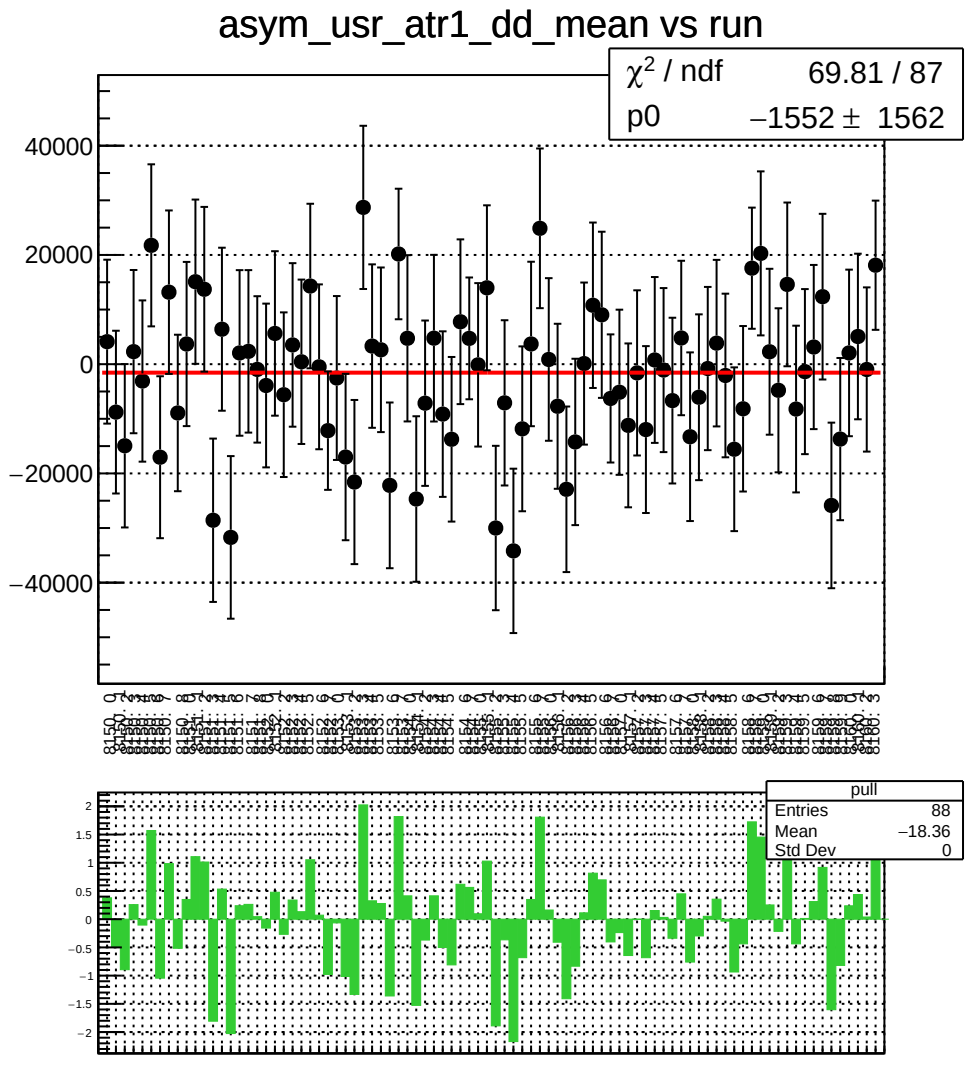

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 68.65 / 87
p0 930.9 ± 1455
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 50.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

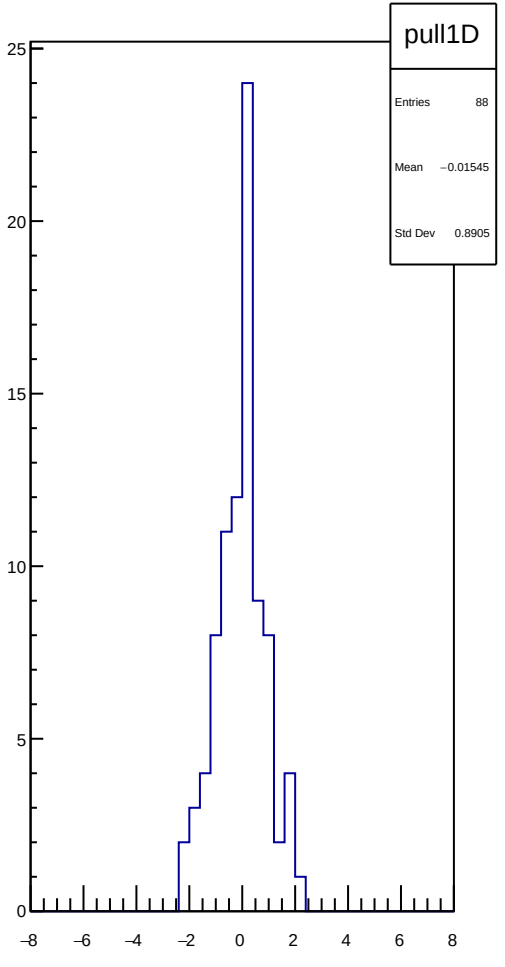

pull1D
Entries 88
Mean −0.01424
Std Dev 0.8831
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

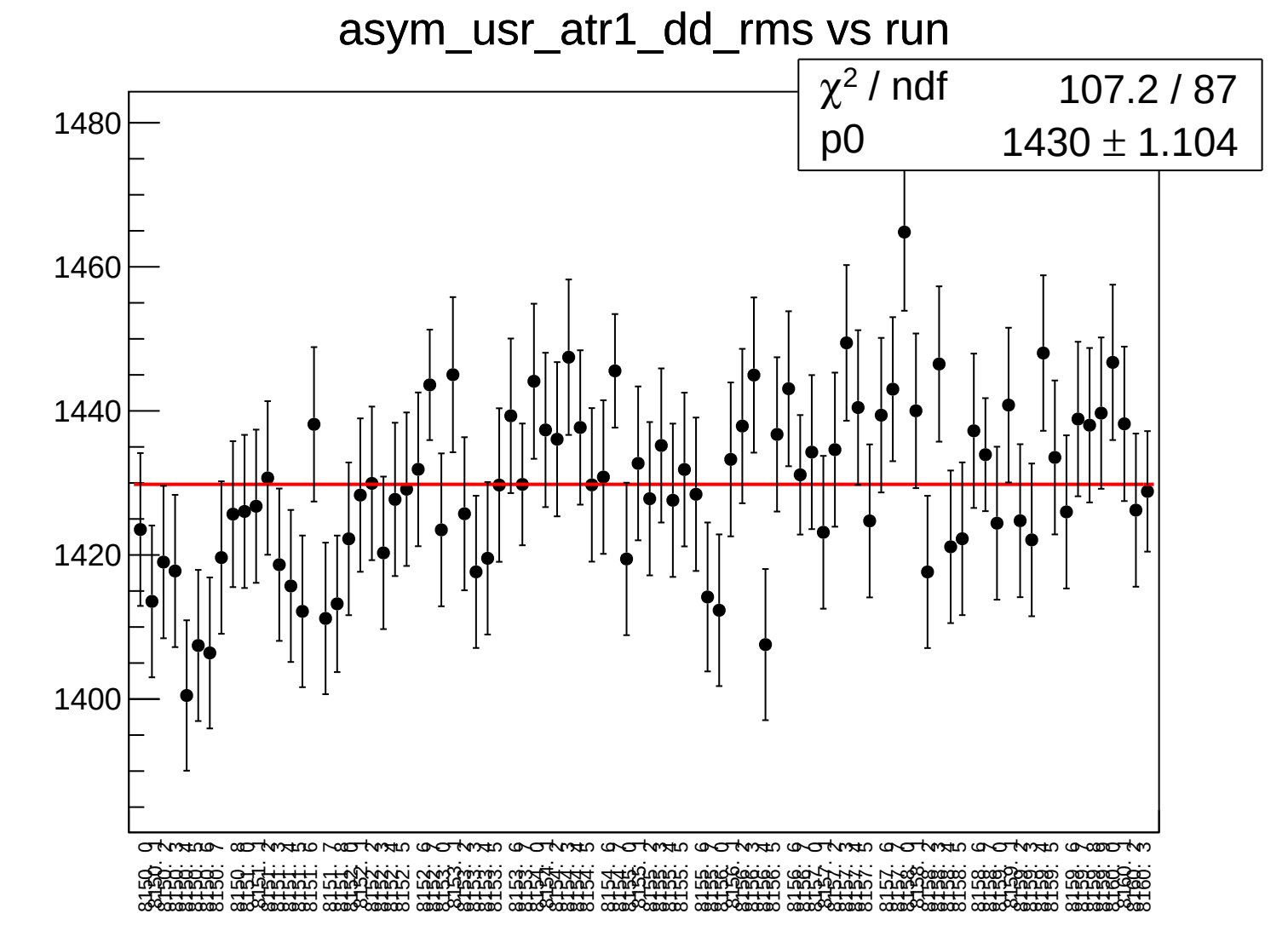

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 70.72 / 87
p0 1332 ± 1.029
1360
1350
1340
1330
1320
1310
1300

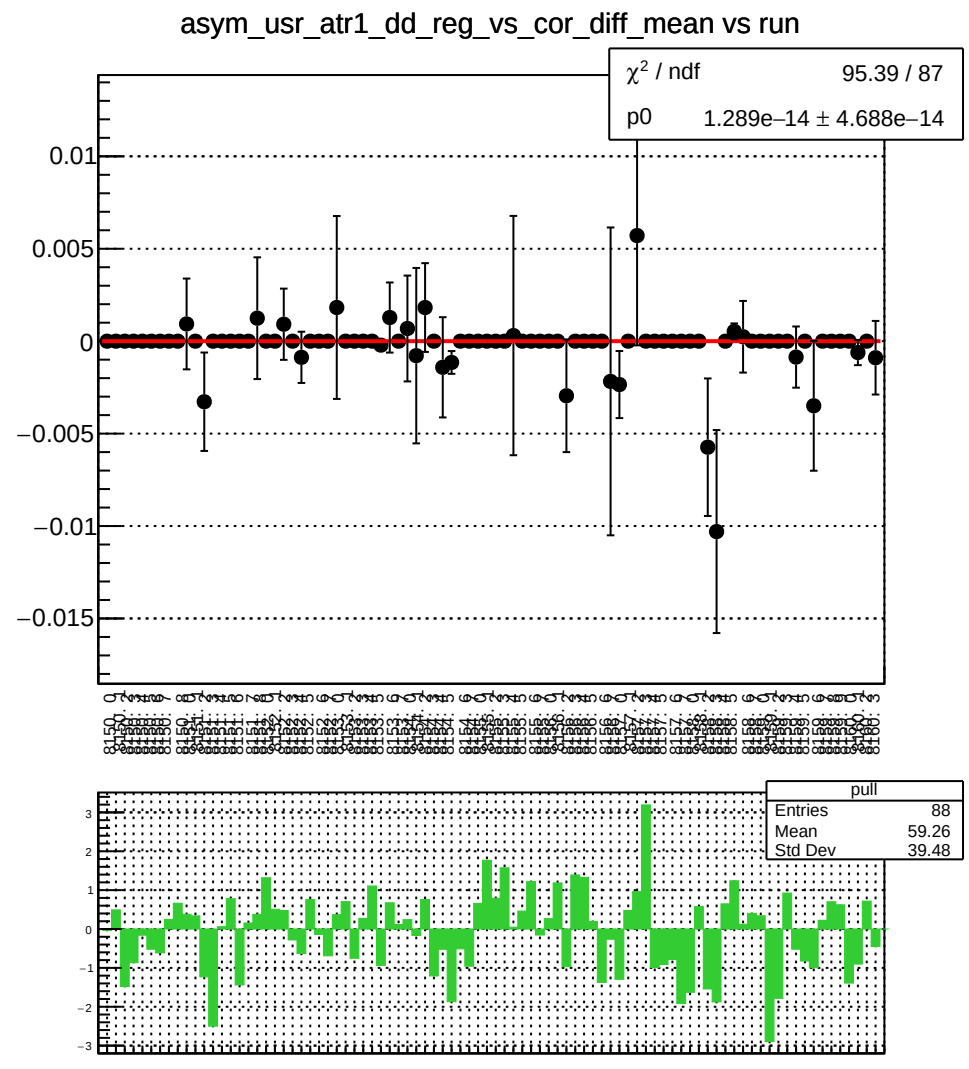

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 91.48 / 87
p0 2488 ± 572.2
pull
Entries 88
Mean −507.4
Std Dev 0
pull1D
Entries 88
Mean 0.005266
Std Dev 1.02

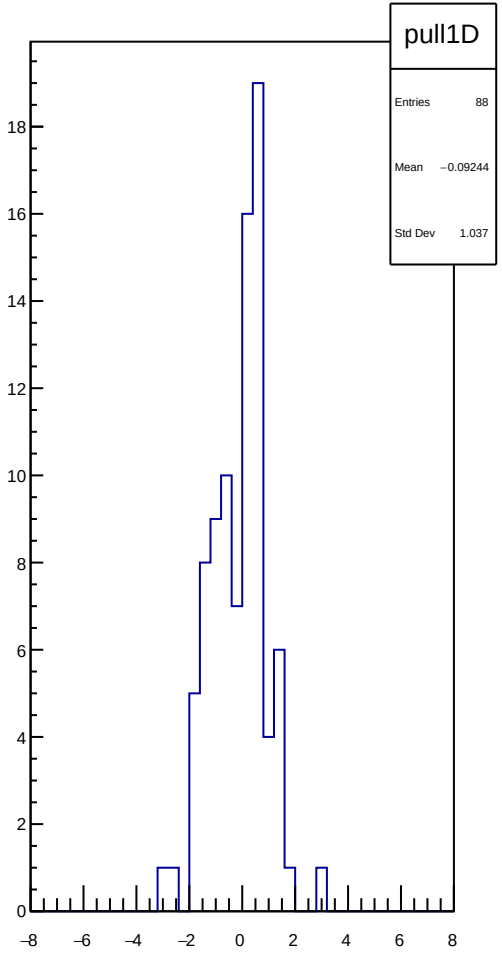

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2539 / 87
p0 523.5 ± 0.4046
620
600
580
560
540
520
500
480

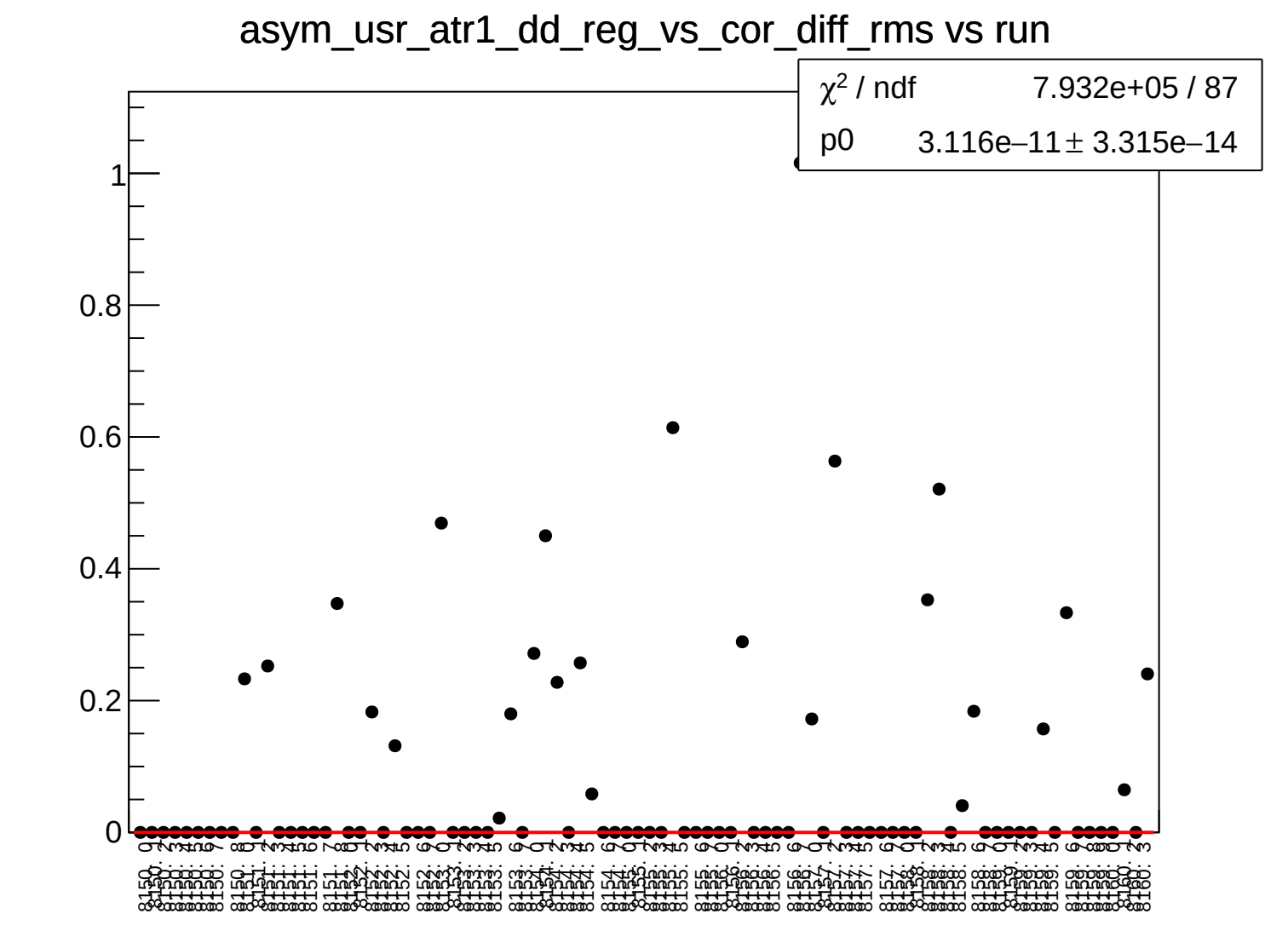

asym_usr_atr1_dd_mean vs run
χ² / ndf 69.81 / 87
p0 −1552 ± 1562
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −18.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

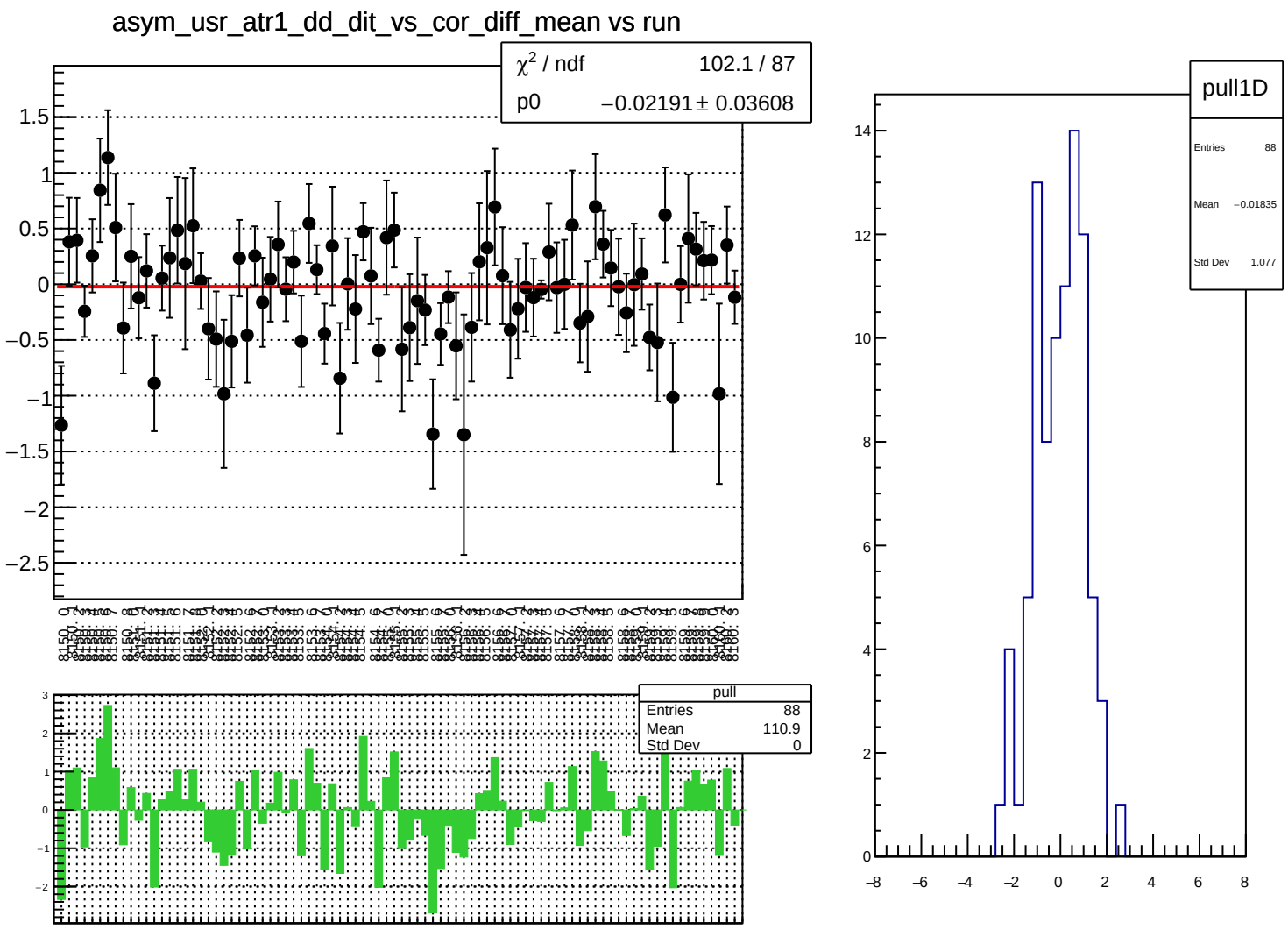

pull1D
Entries 88
Mean −0.01545
Std Dev 0.8905
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

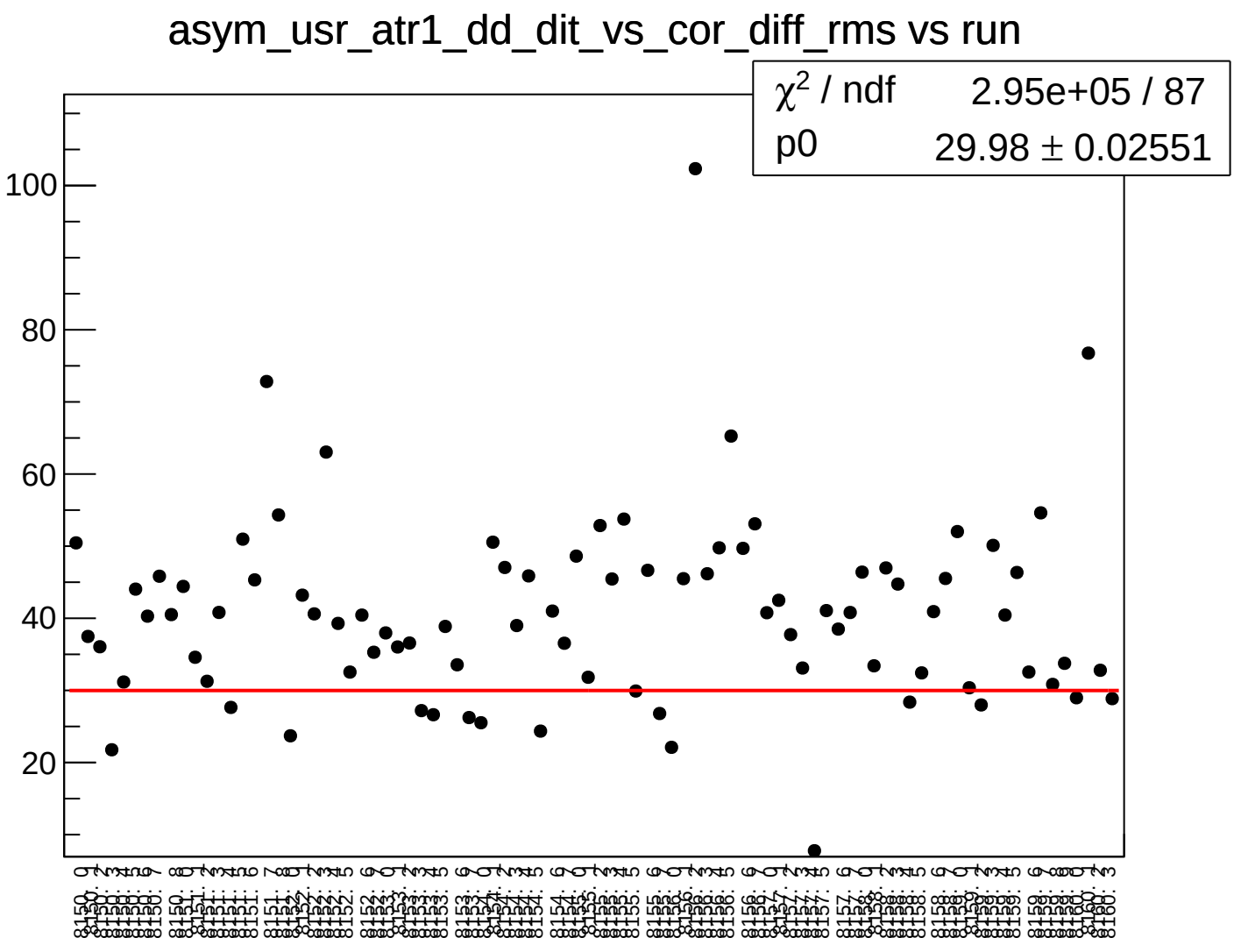

asym_usr_atr1_dd_rms vs run
χ² / ndf 107.2 / 87
p0 1430 ± 1.104
1480
1460
1440
1420
1400

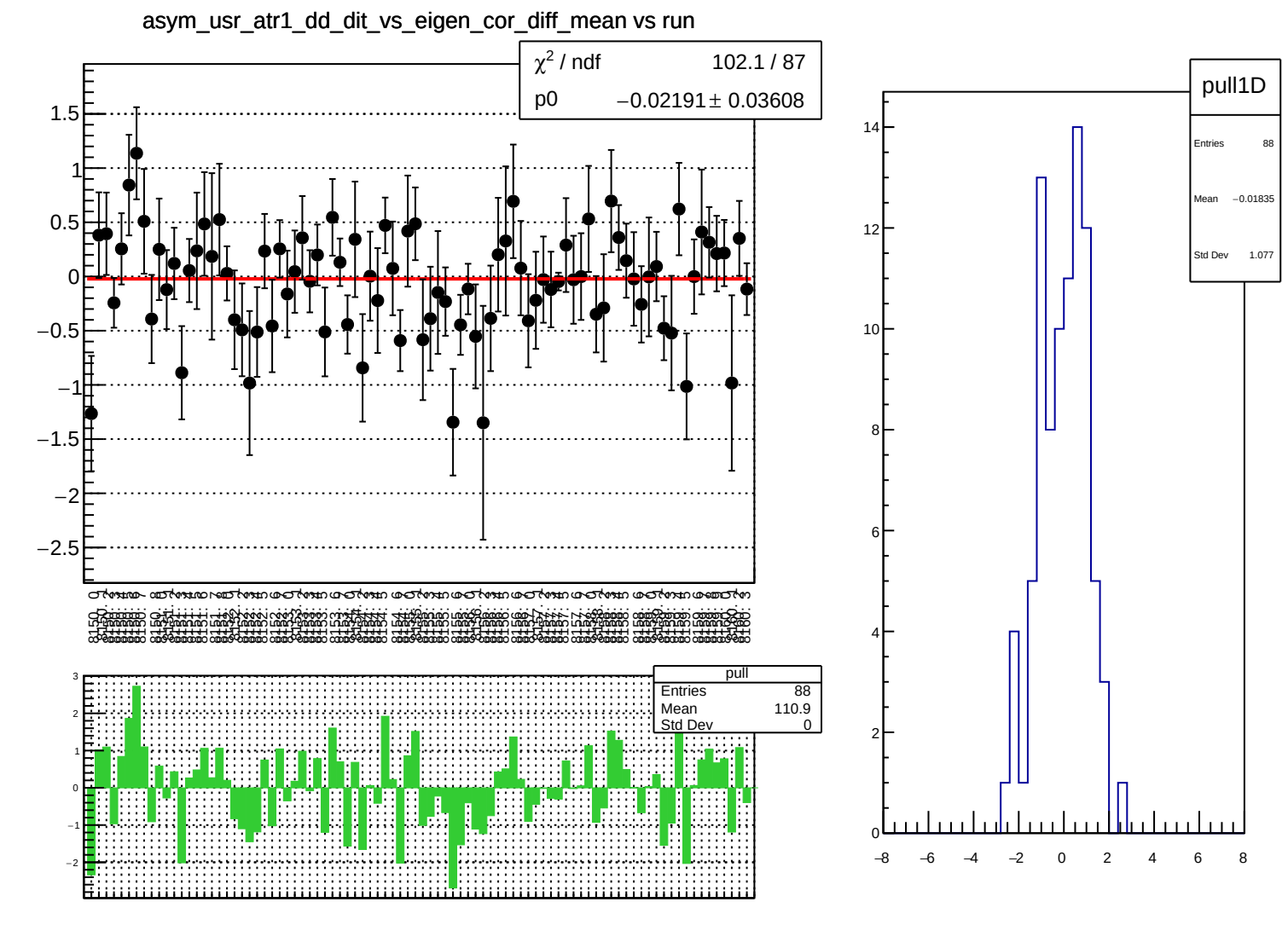

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.39 / 87
p0 1.289e−14 ± 4.688e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 59.26
Std Dev 39.48
3
2
1
0
−1
−2
−3

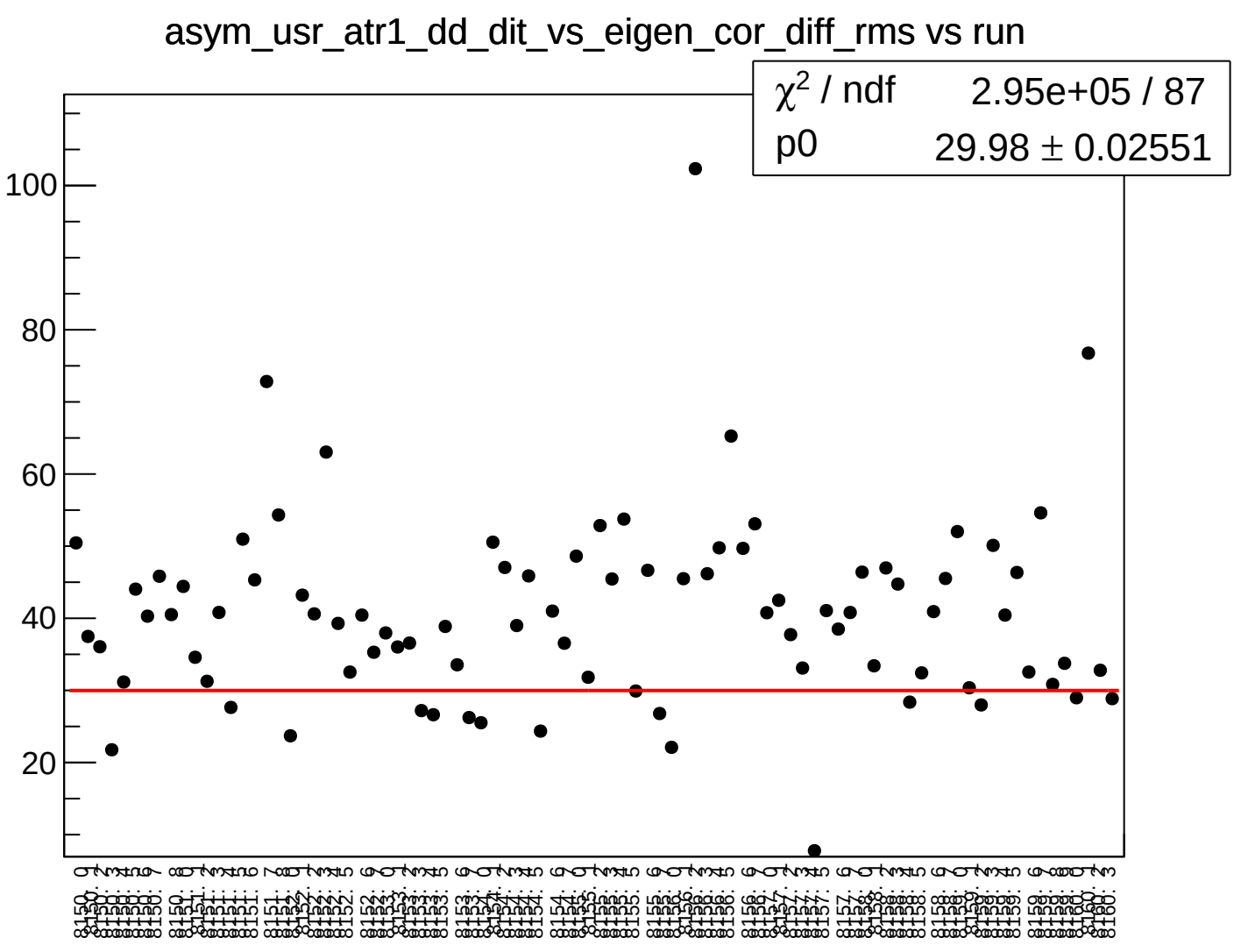

pull1D
Entries 88
Mean −0.09244
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

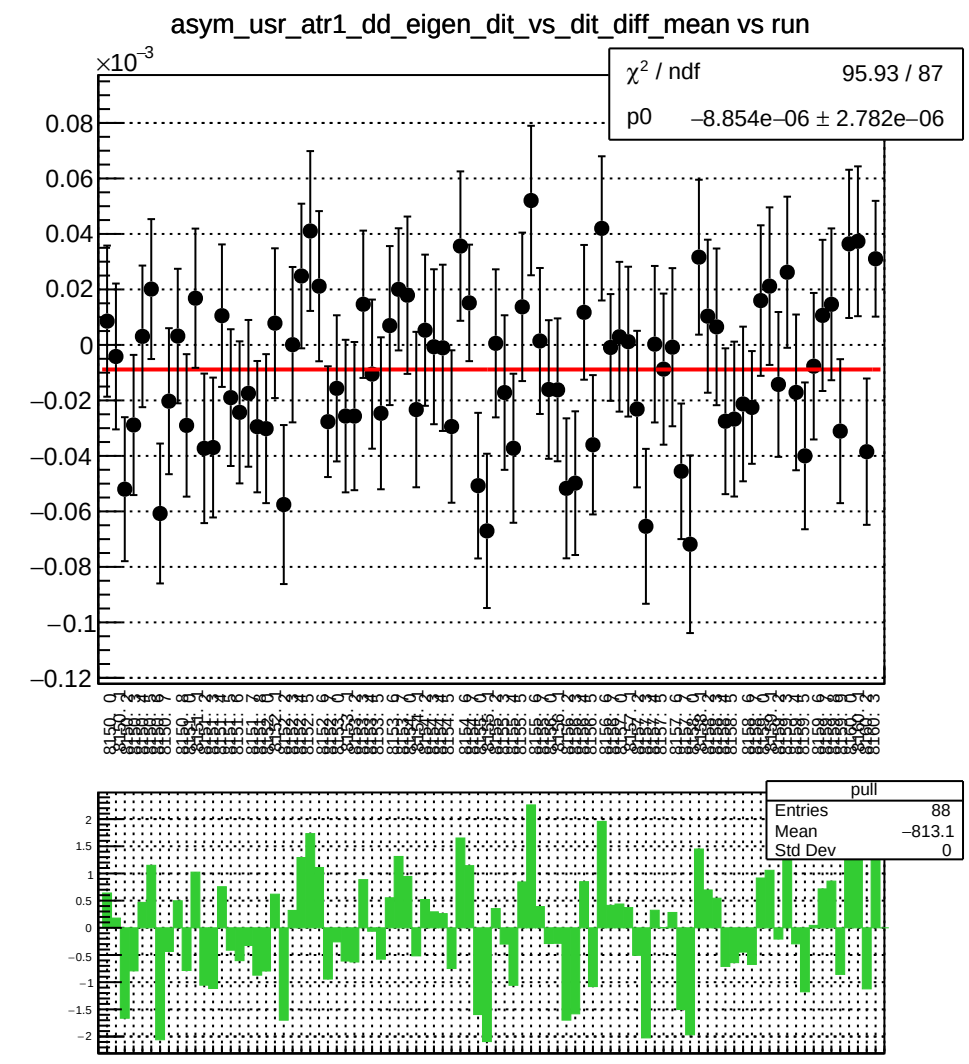

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.932e+05 / 87
p0 3.116e−11 ± 3.315e−14
1
0.8
0.6
0.4
0.2
0

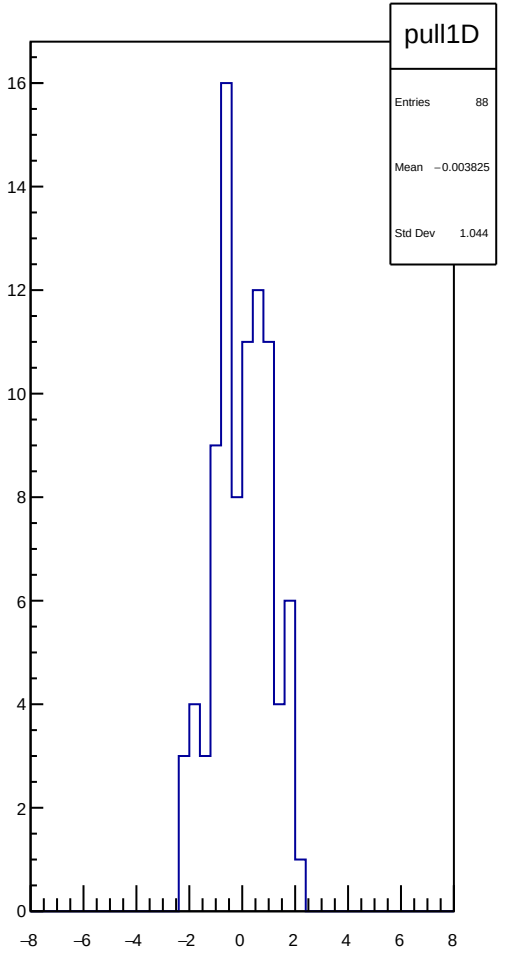

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.1 / 87
p0 −0.02191 ± 0.03608
pull
Entries 88
Mean 110.9
Std Dev 0
pull1D
Entries 88
Mean −0.01835
Std Dev 1.077

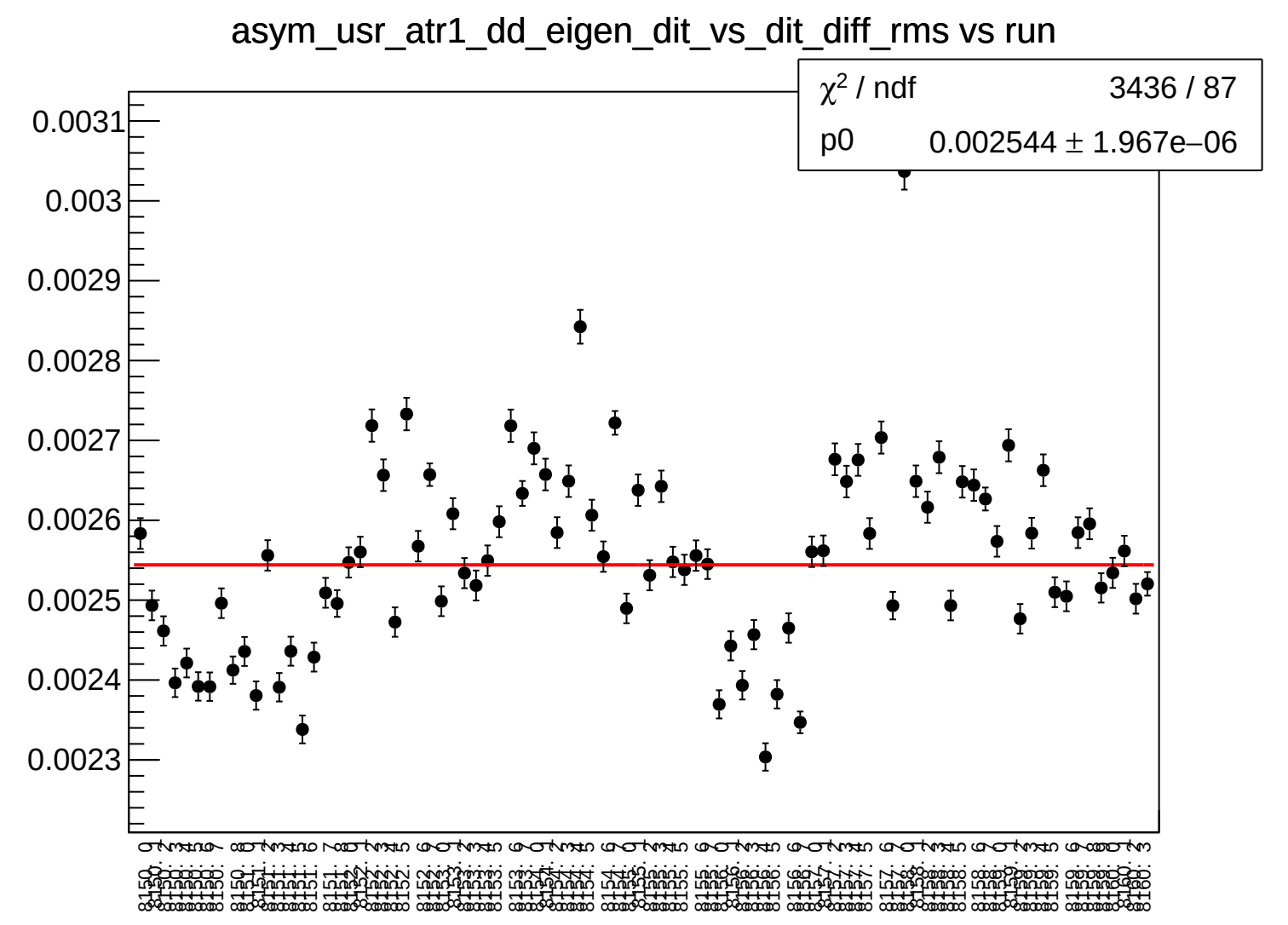

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.95e+05 / 87
p0 29.98 ± 0.02551
100
80
60
40
20

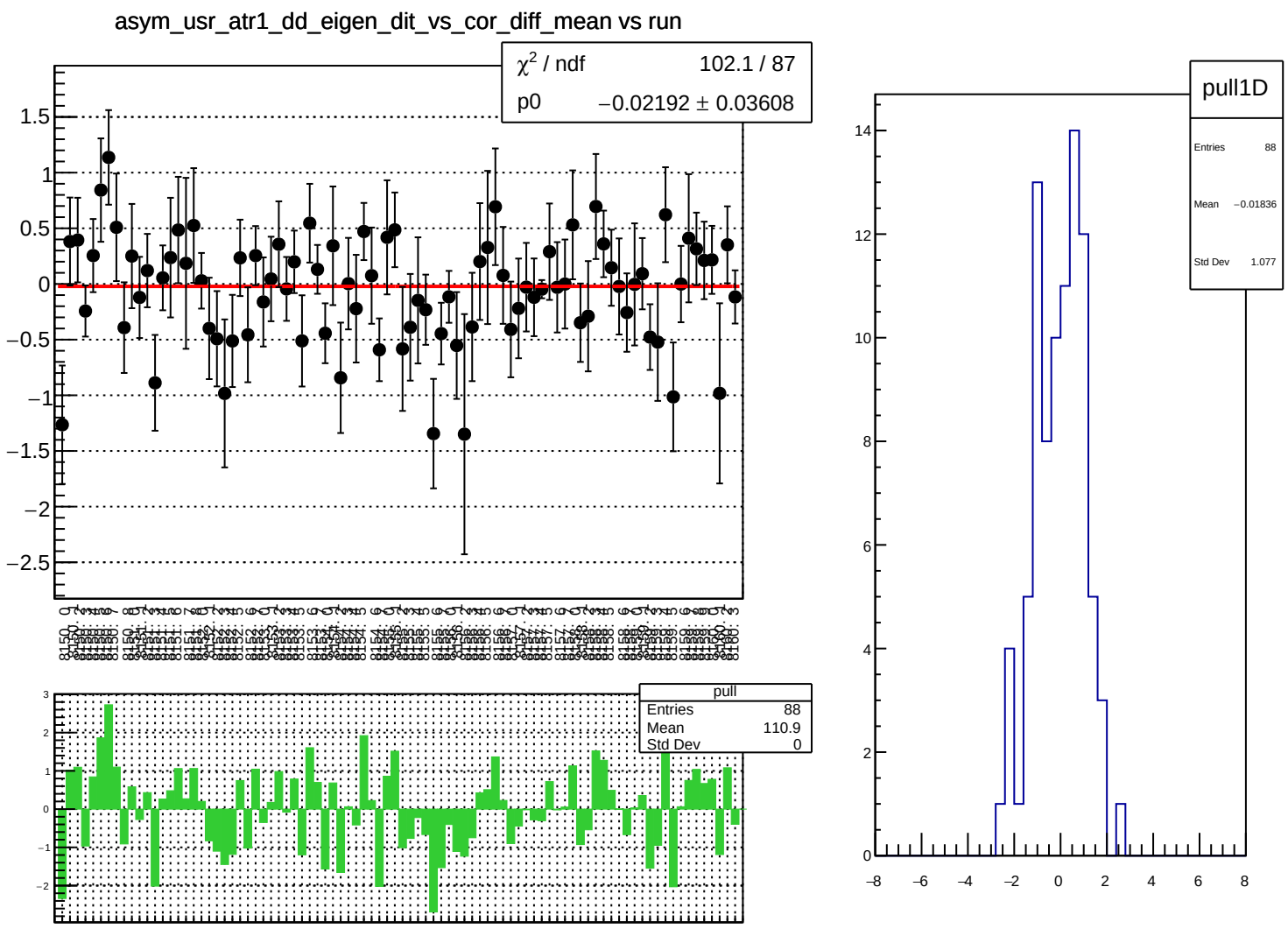

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.1 / 87
p0 −0.02191 ± 0.03608
pull
Entries 88
Mean 110.9
Std Dev 0
pull1D
Entries 88
Mean −0.01835
Std Dev 1.077

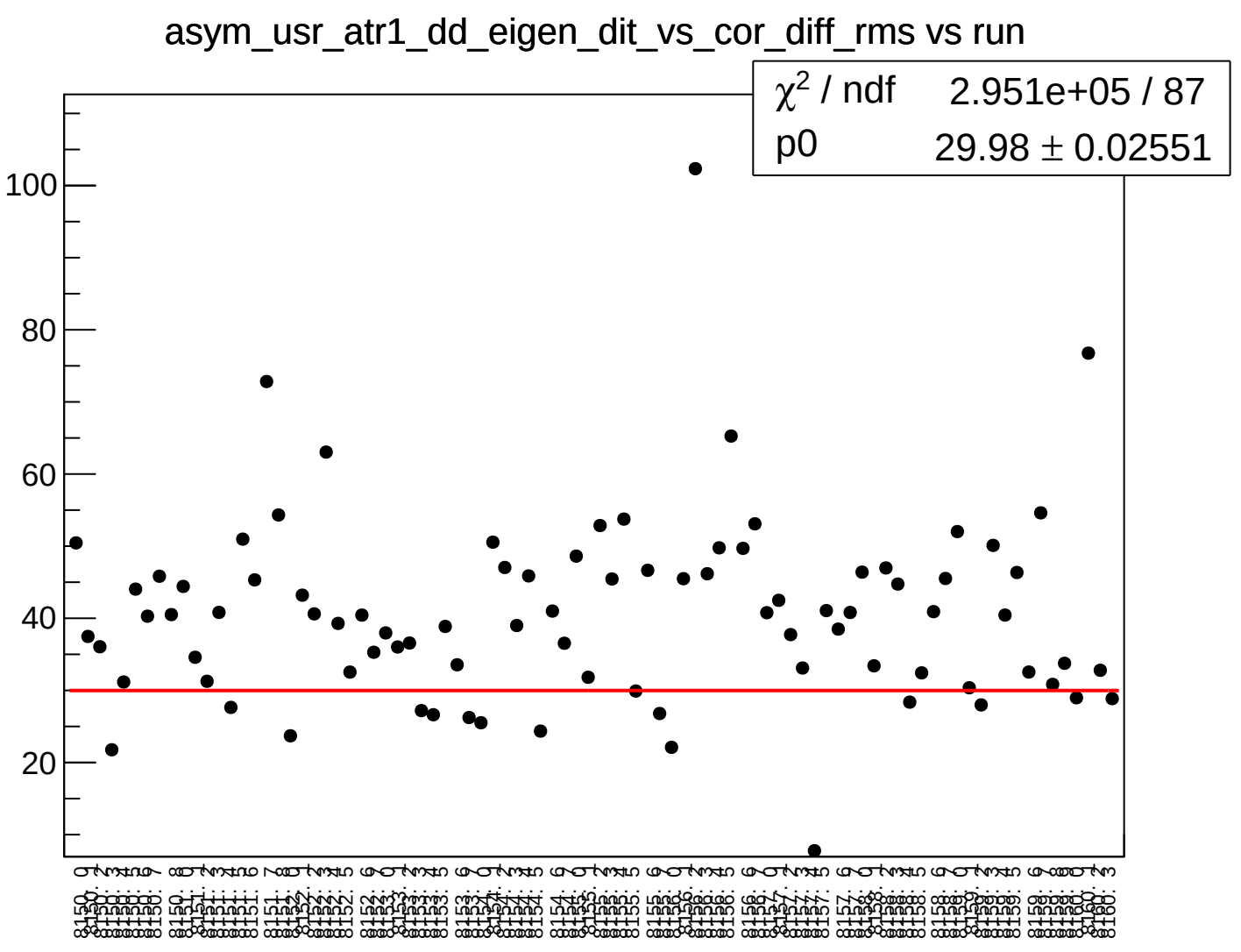

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.95e+05 / 87
p0 29.98 ± 0.02551
100
80
60
40
20

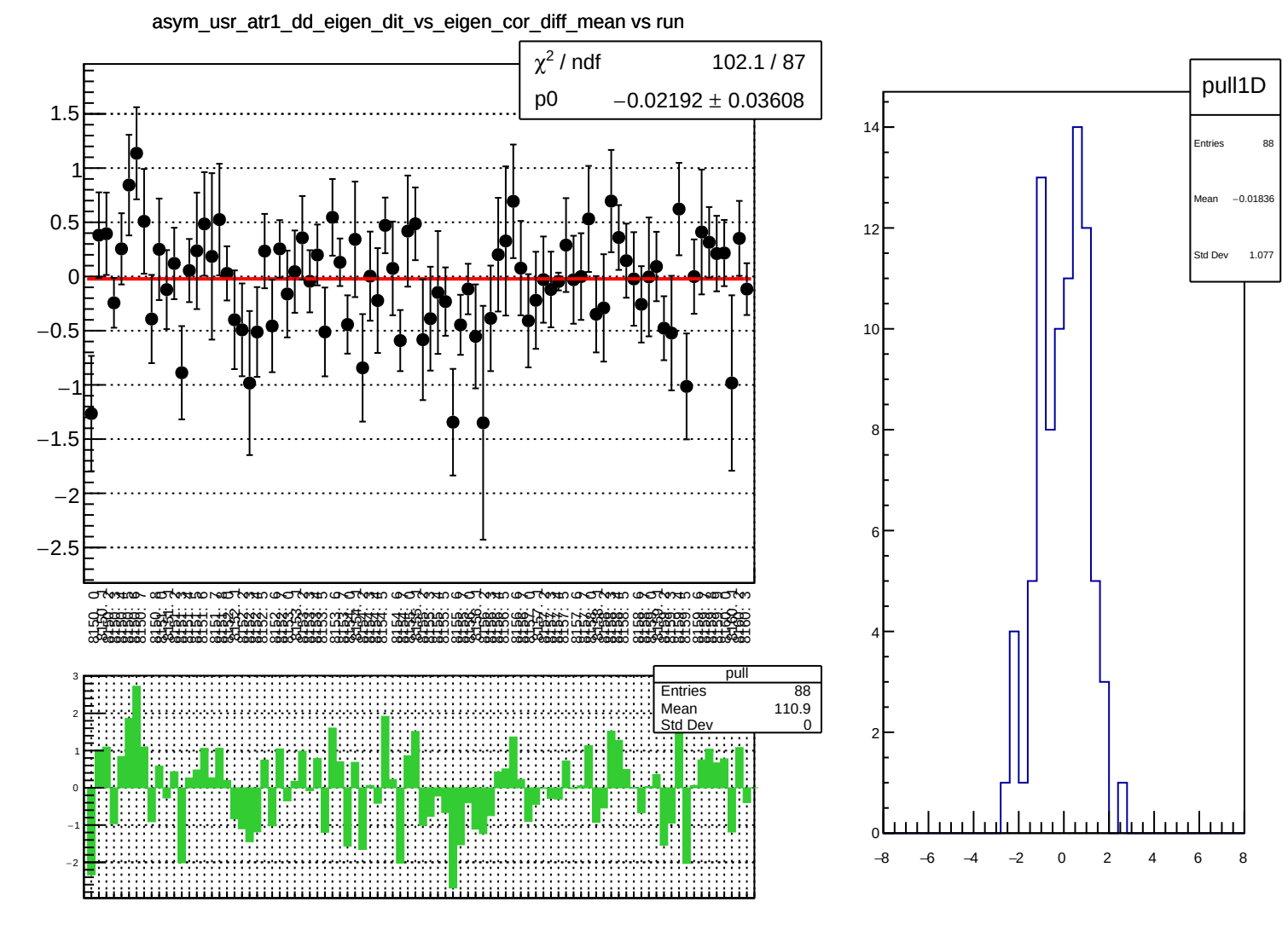

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 95.93 / 87
p0 −8.854e−06 ± 2.782e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 88
Mean −813.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

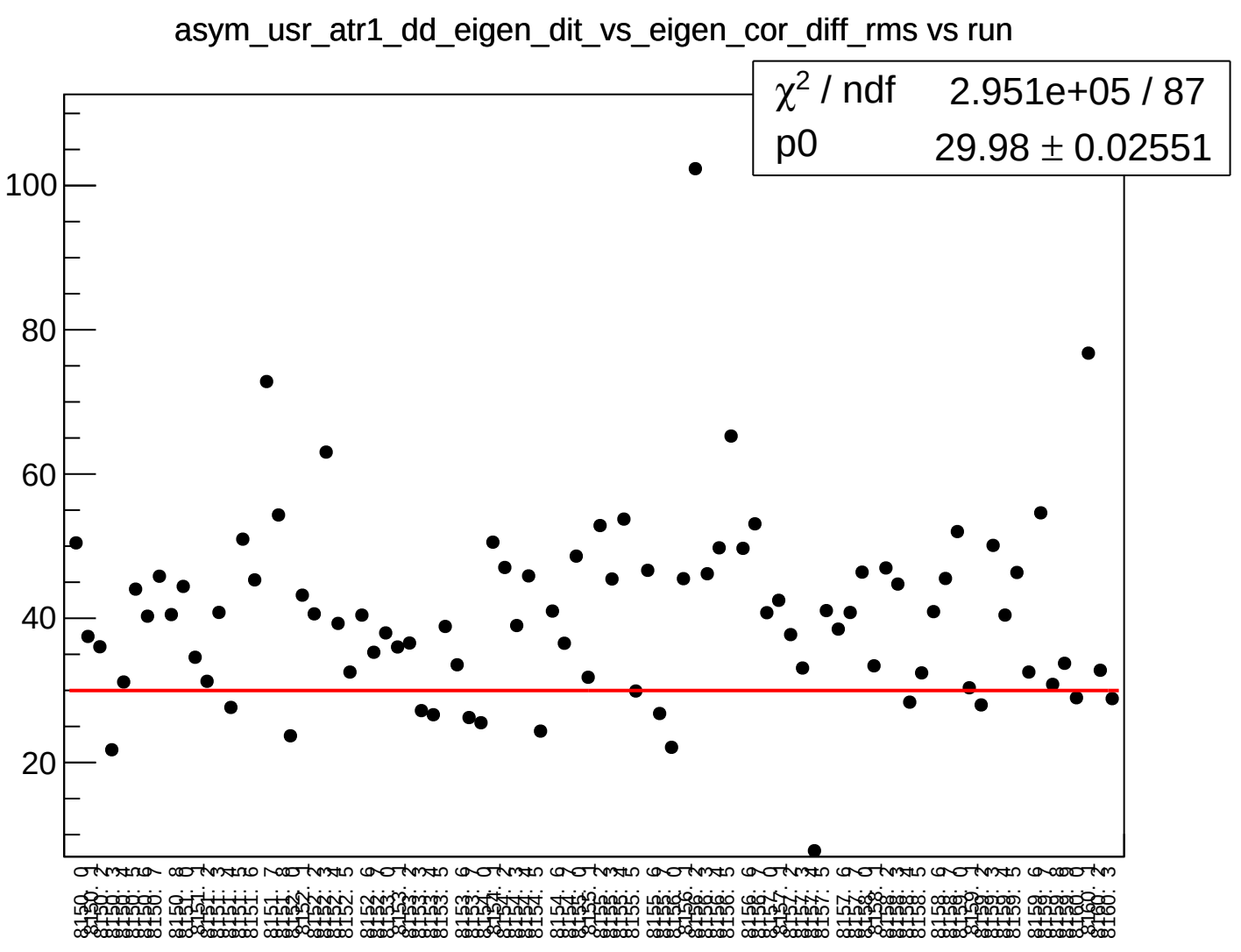

pull1D
Entries 88
Mean −0.003825
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

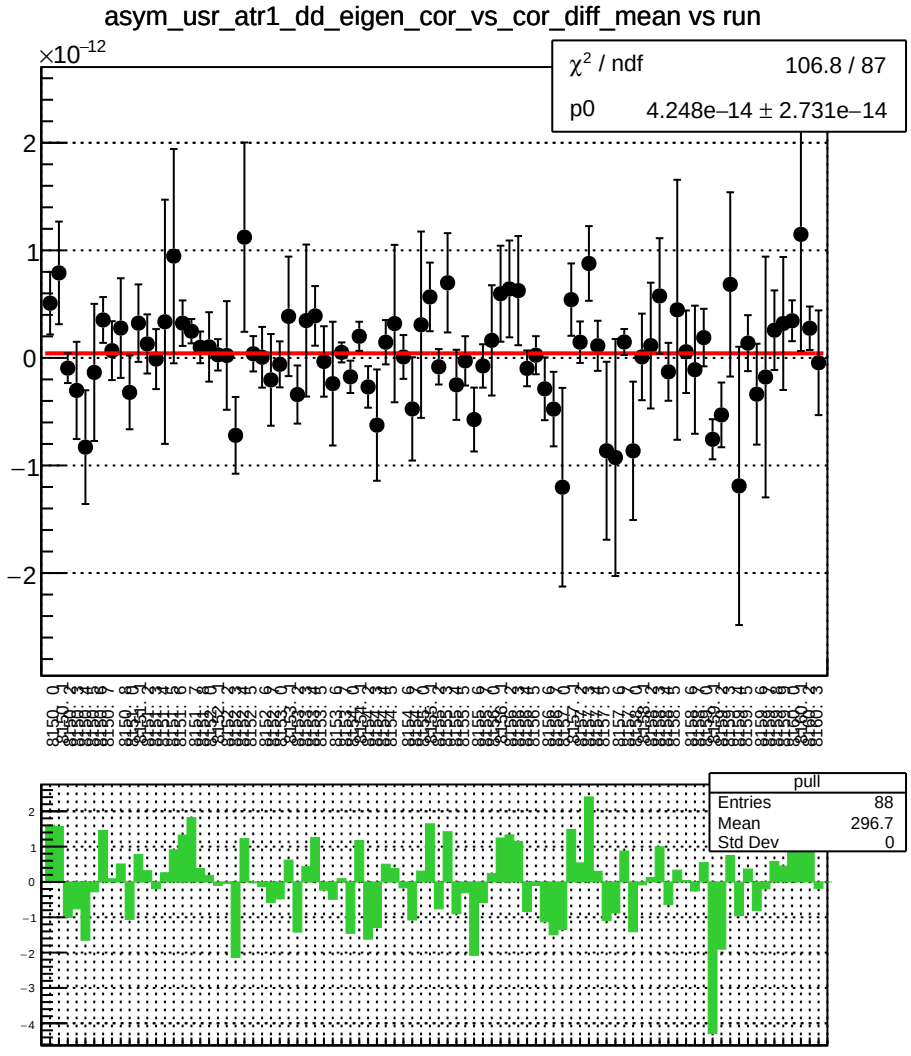

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3436 / 87
p0 0.002544 ± 1.967e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023

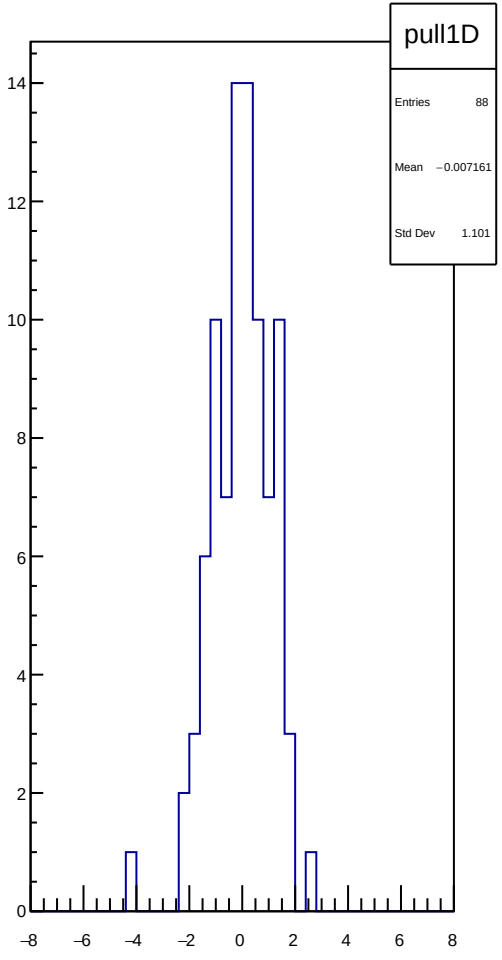

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.1 / 87
p0 −0.02192 ± 0.03608
pull
Entries 88
Mean 110.9
Std Dev 0
pull1D
Entries 88
Mean −0.01836
Std Dev 1.077

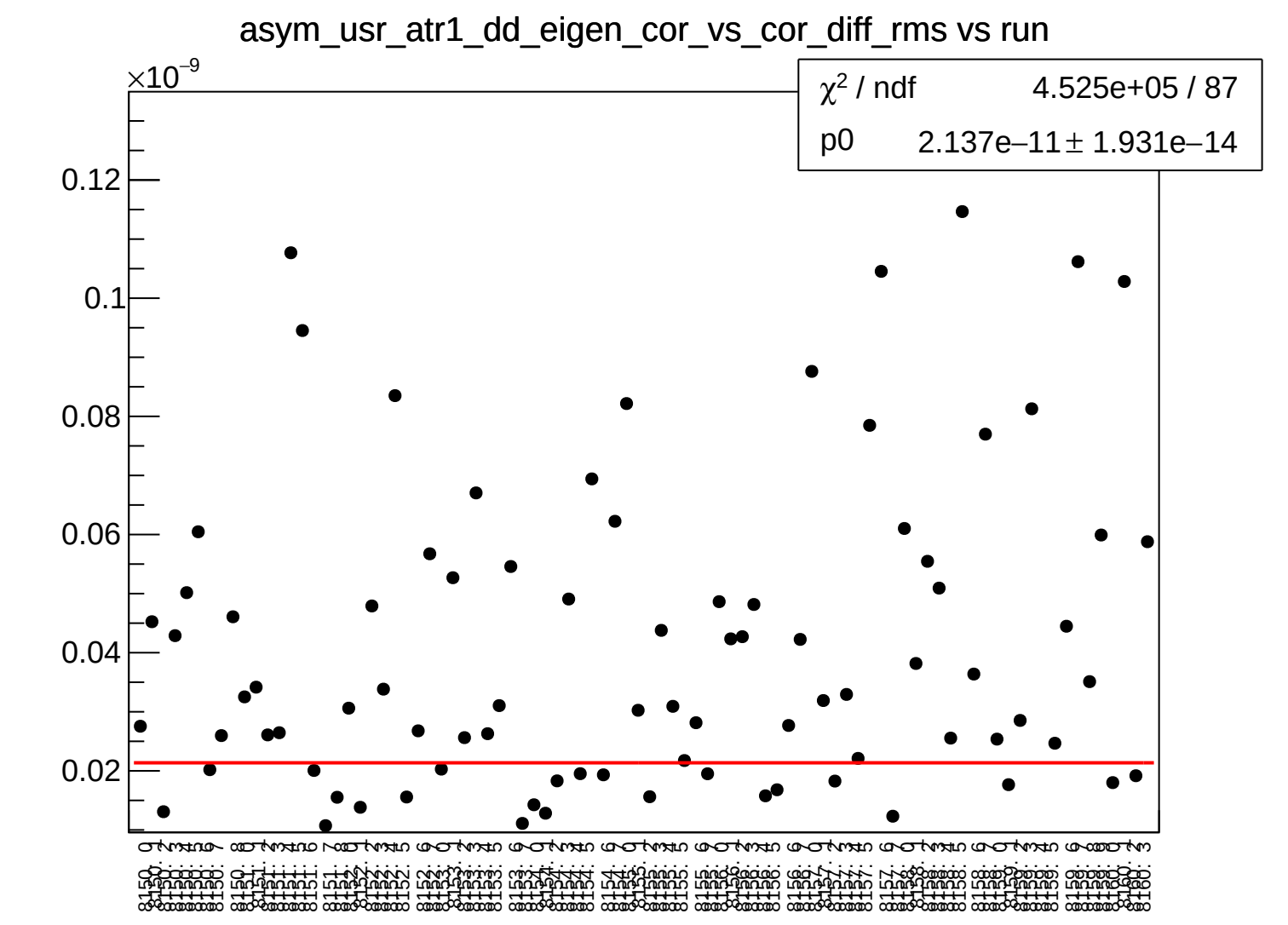

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.951e+05 / 87
p0 29.98 ± 0.02551
100
80
60
40
20

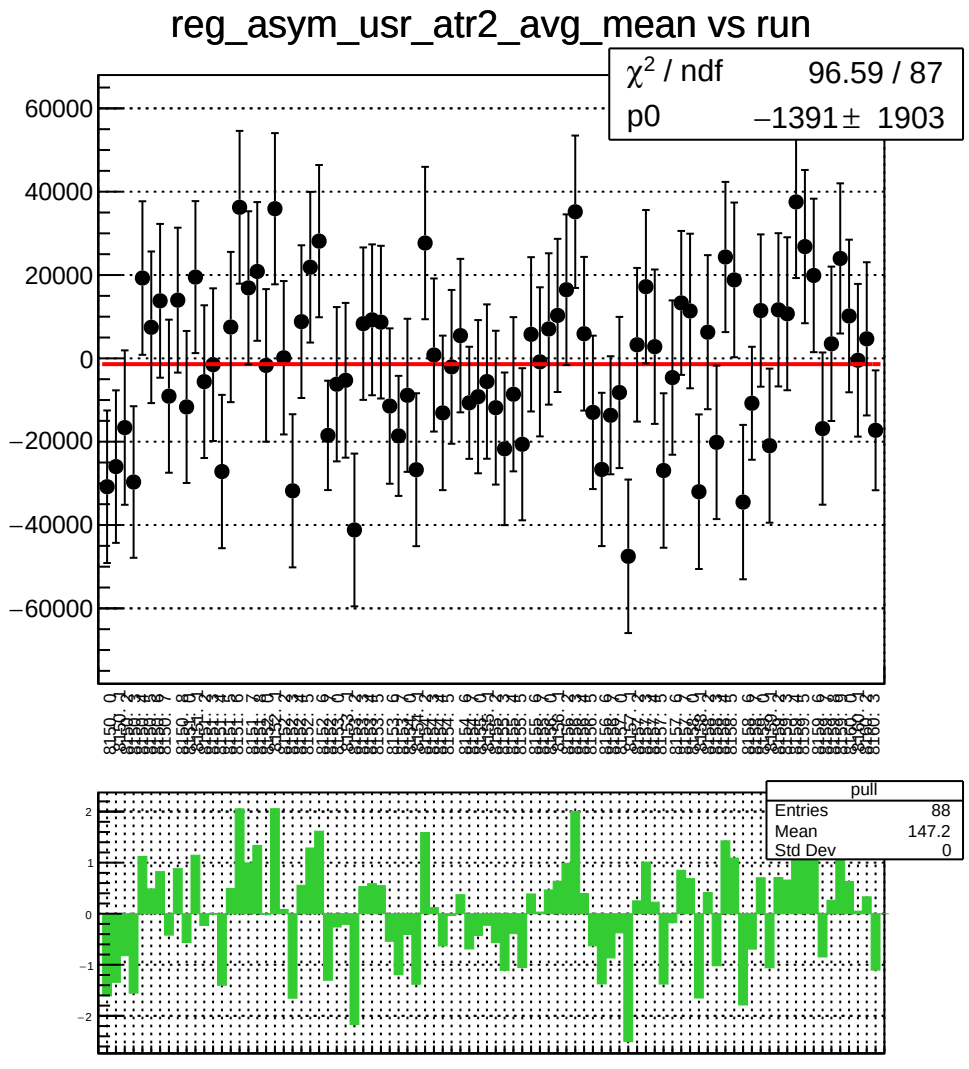

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.1 / 87
p0 −0.02192 ± 0.03608
pull
Entries 88
Mean 110.9
Std Dev 0
pull1D
Entries 88
Mean −0.01836
Std Dev 1.077

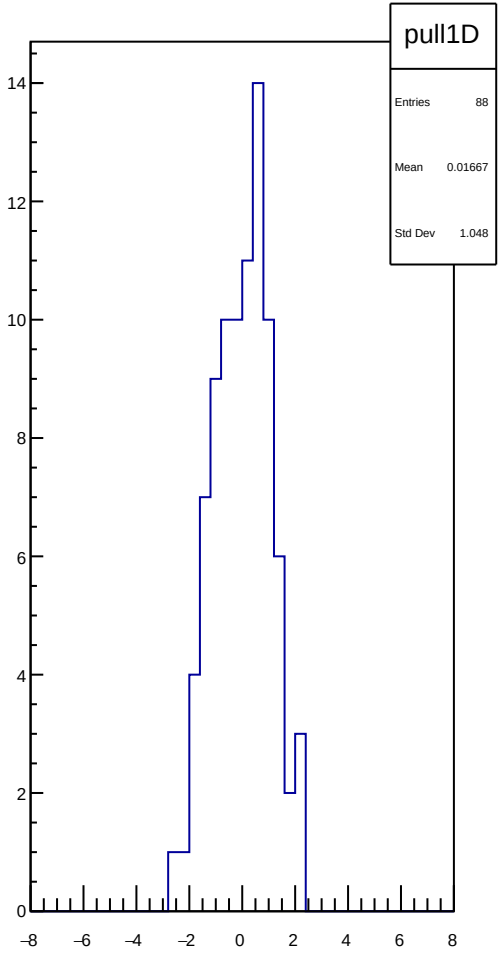

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.951e+05 / 87
p0 29.98 ± 0.02551
100
80
60
40
20

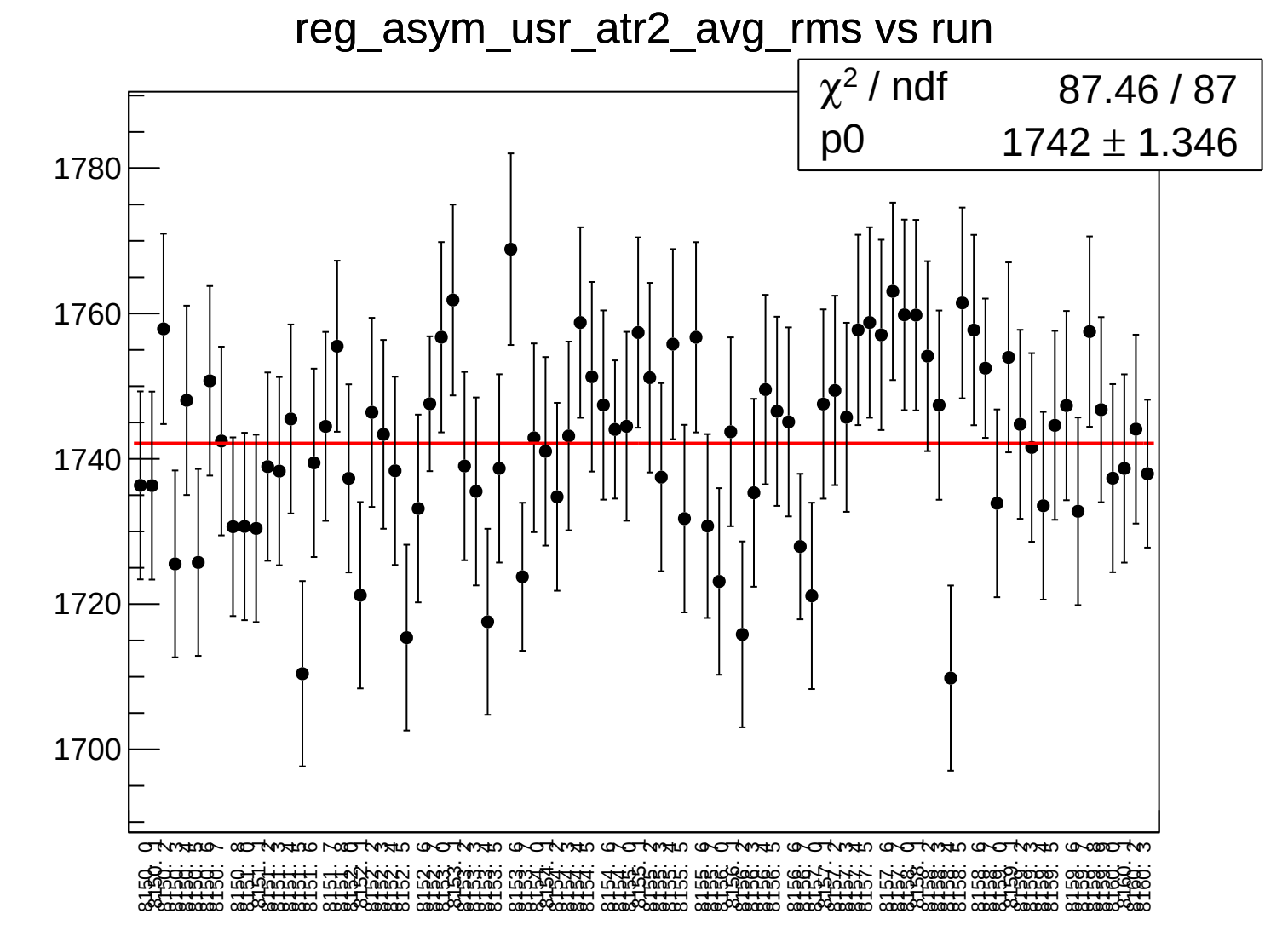

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.8 / 87
p0 4.248e−14 ± 2.731e−14
pull
Entries 88
Mean 296.7
Std Dev 0

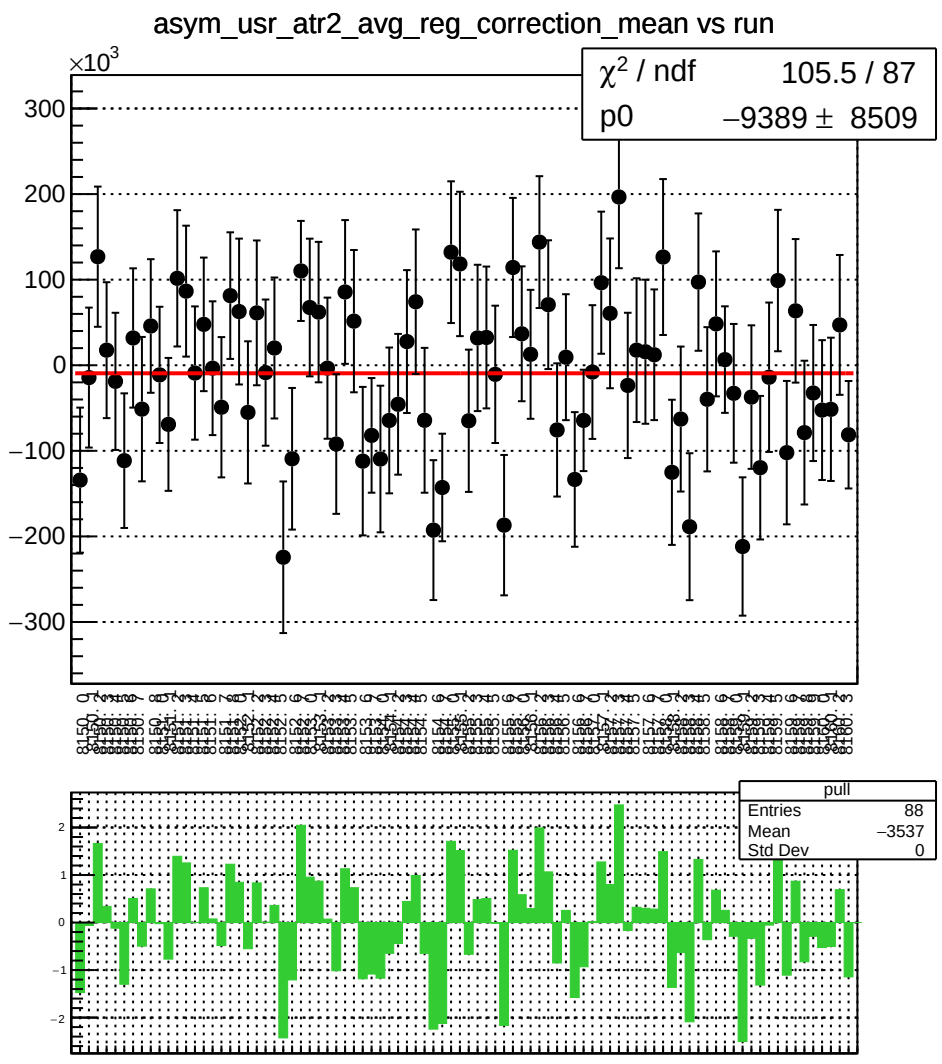

pull1D
Entries 88
Mean −0.007161
Std Dev 1.101

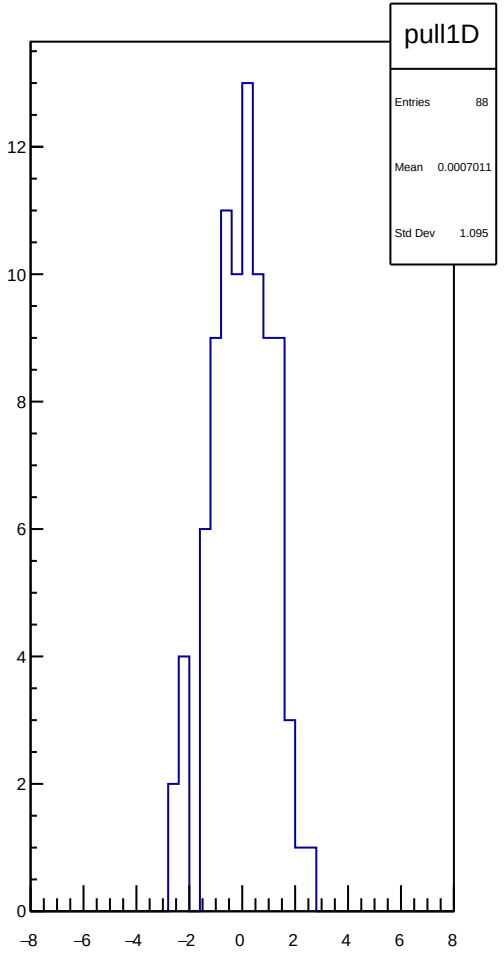

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.525e+05 / 87
p0 2.137e−11 ± 1.931e−14
0.12
0.1
0.08
0.06
0.04
0.02

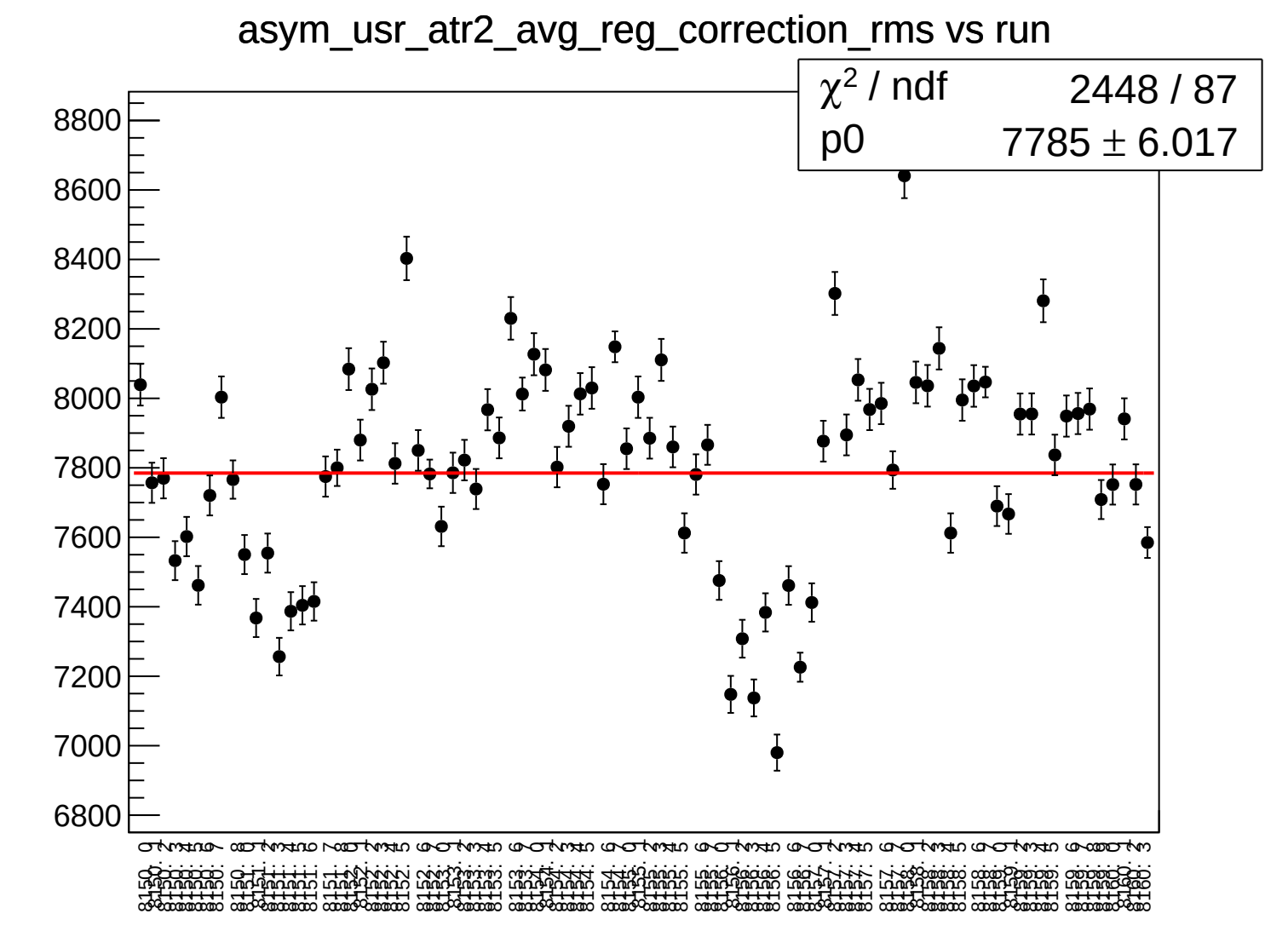

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 96.59 / 87
p0 −1391 ± 1903
pull
Entries 88
Mean 147.2
Std Dev 0

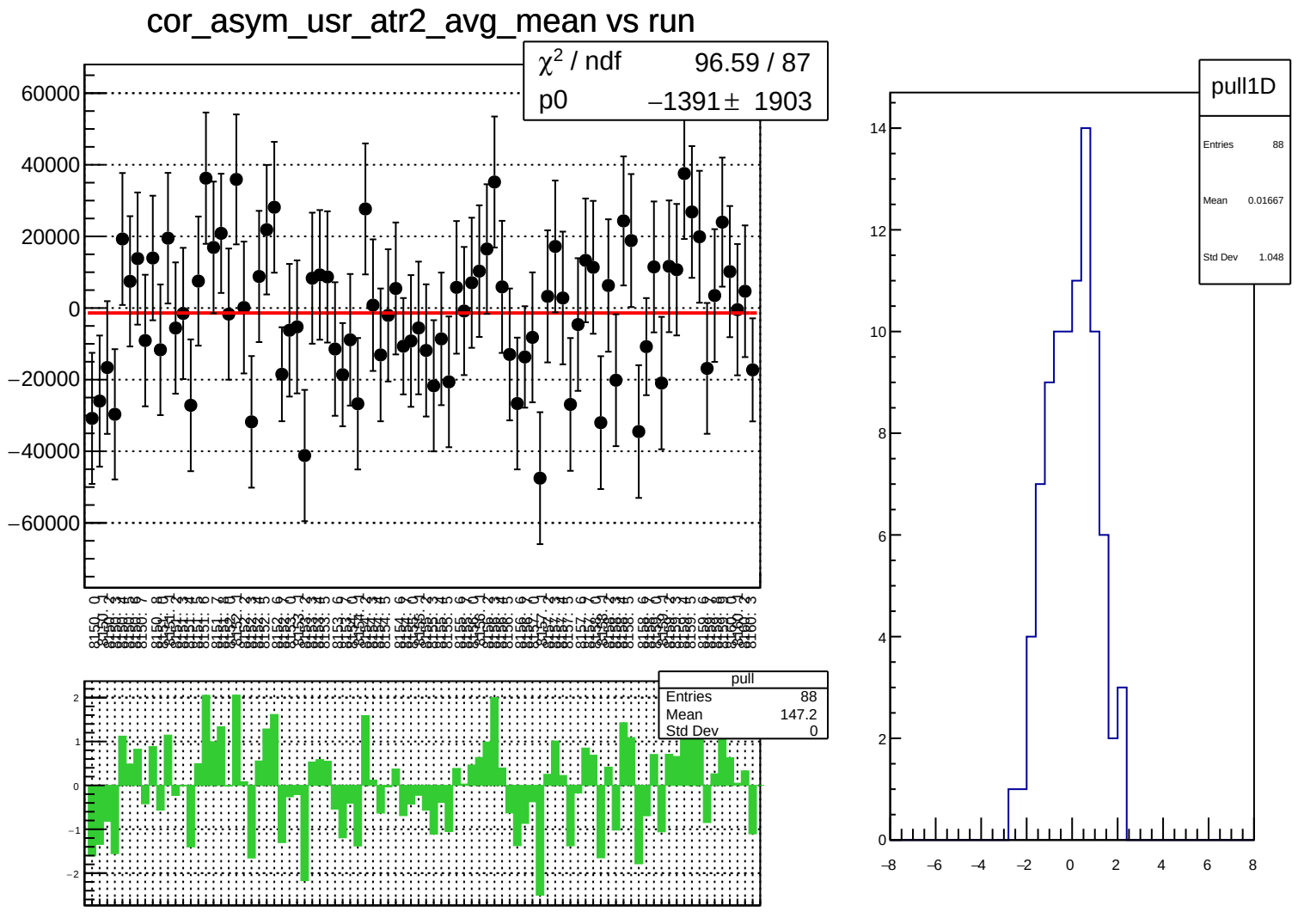

pull1D
Entries 88
Mean 0.01667
Std Dev 1.048

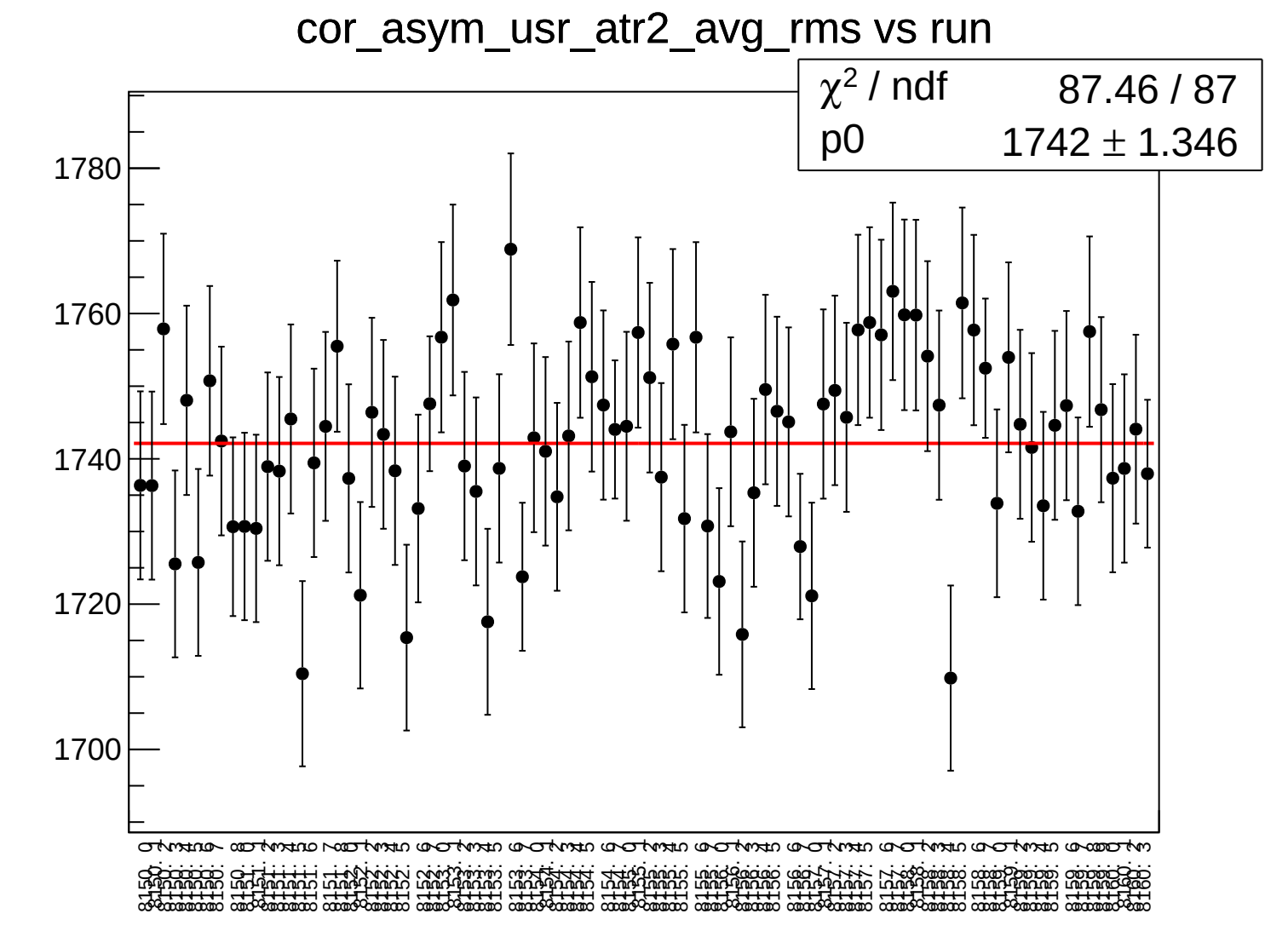

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 87.46 / 87
p0 1742 ± 1.346
1780
1760
1740
1720
1700

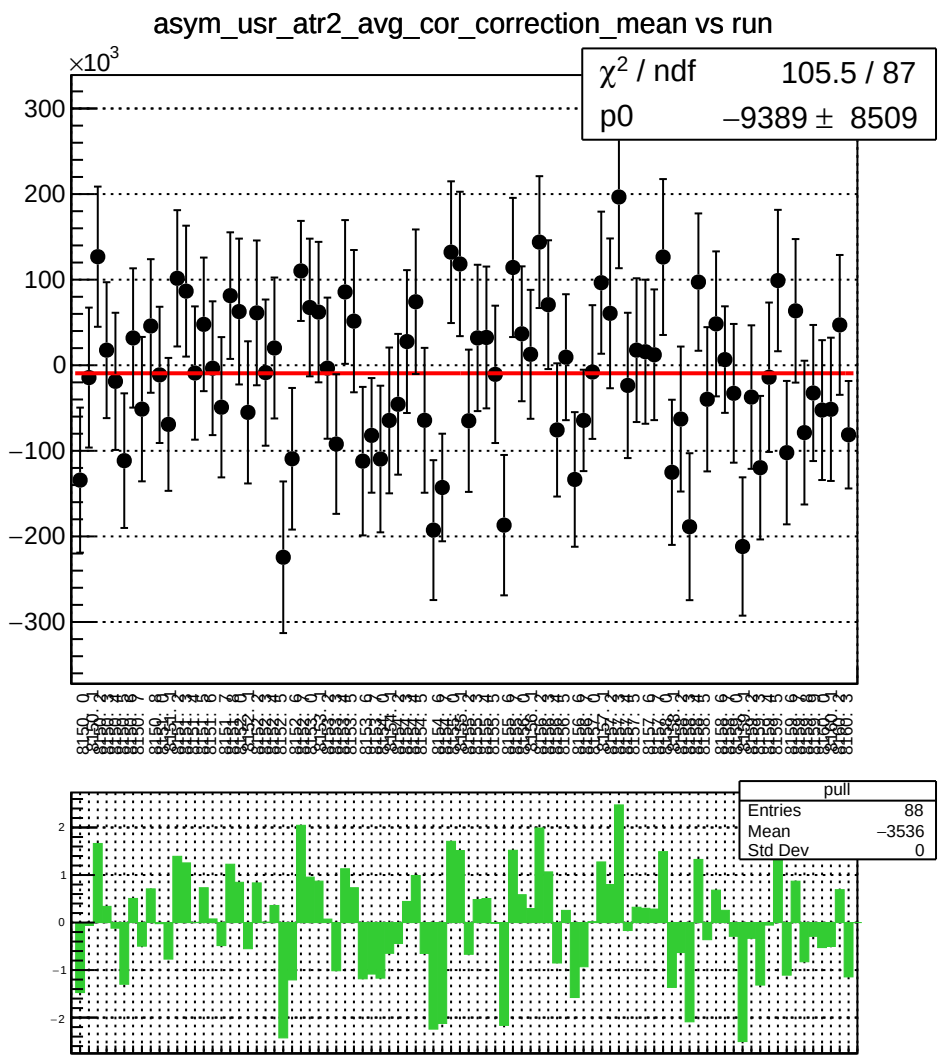

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 105.5 / 87
p0 −9389 ± 8509
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −3537
Std Dev 0
2
1
0
−1
−2

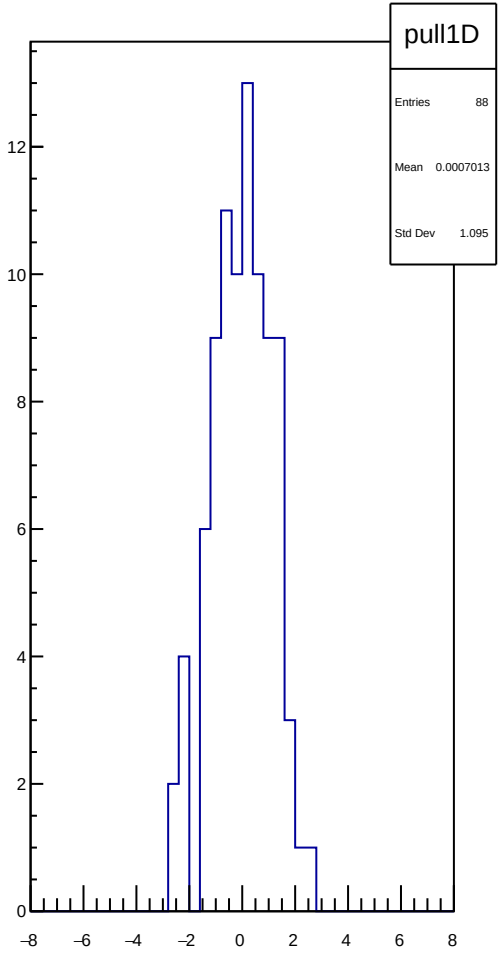

pull1D
Entries 88
Mean 0.0007011
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

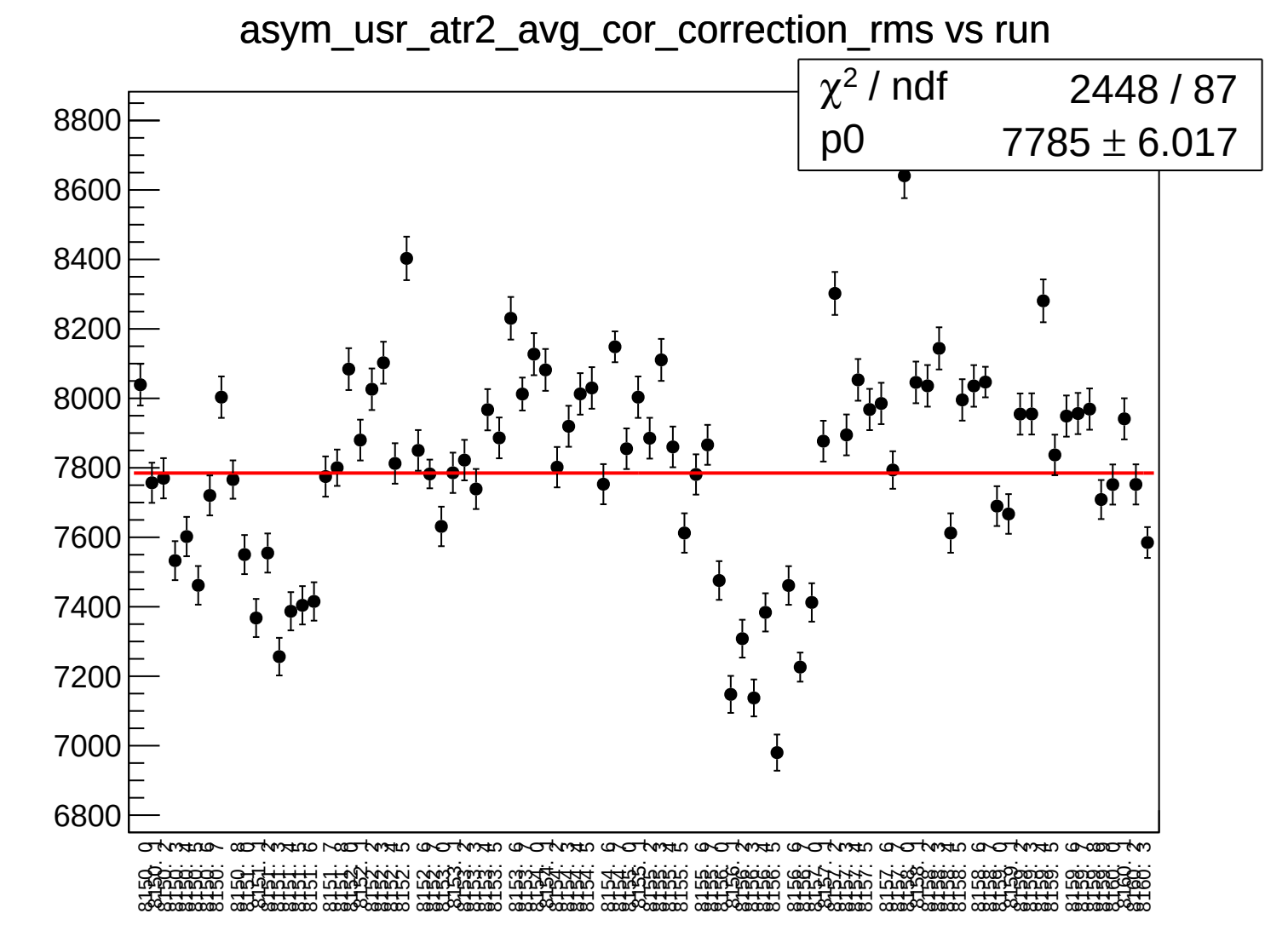

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 2448 / 87
p0 7785 ± 6.017
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

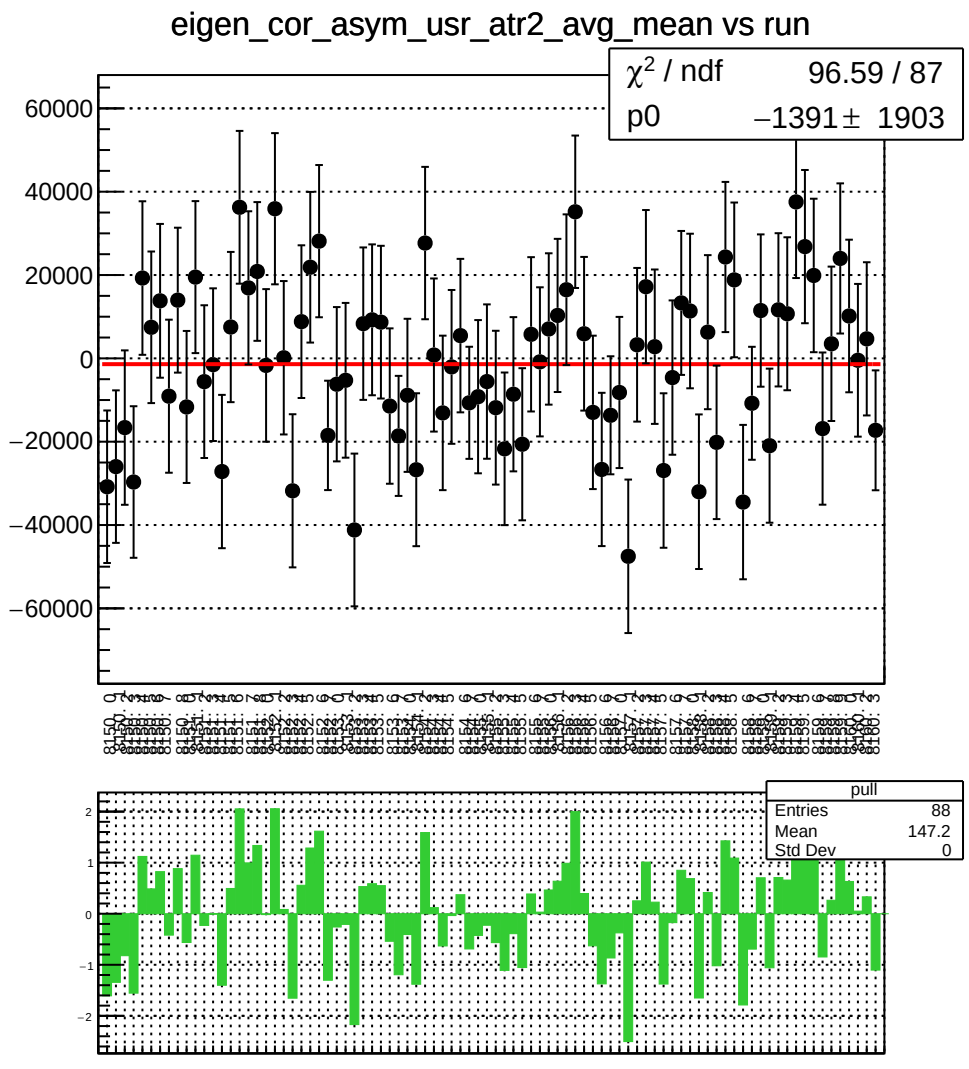

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 96.59 / 87
p0 −1391 ± 1903
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 147.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01667
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

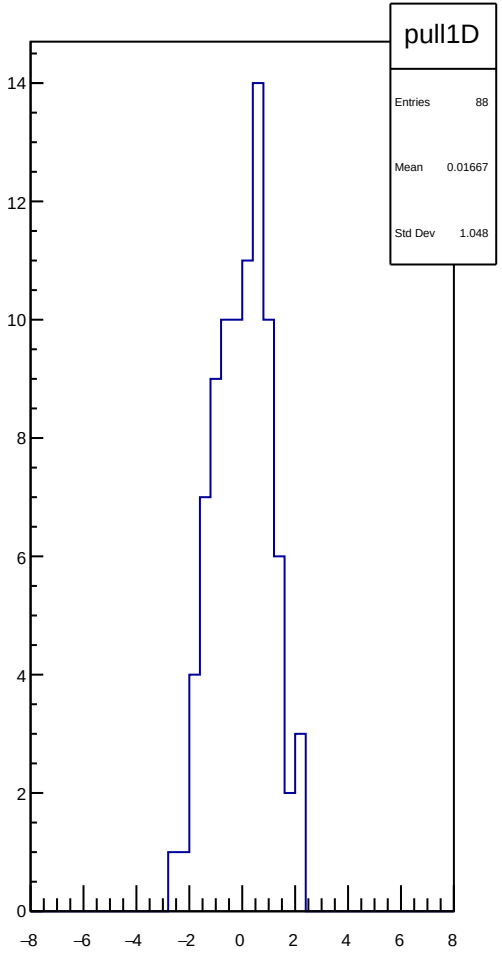

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 87.46 / 87
p0 1742 ± 1.346
1780
1760
1740
1720
1700

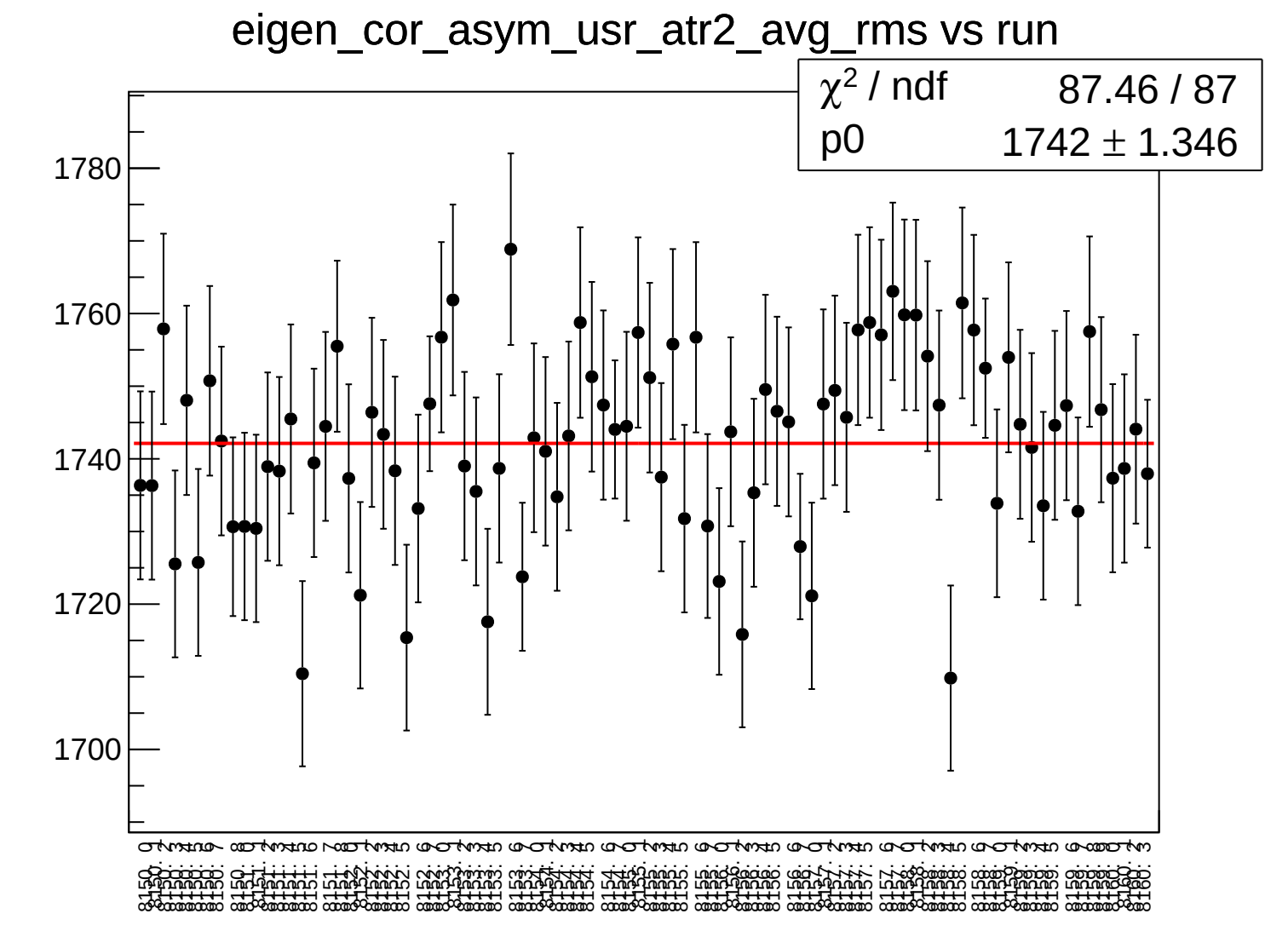

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 105.5 / 87
p0 −9389 ± 8509
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −3536
Std Dev 0
2
1
0
−1
−2

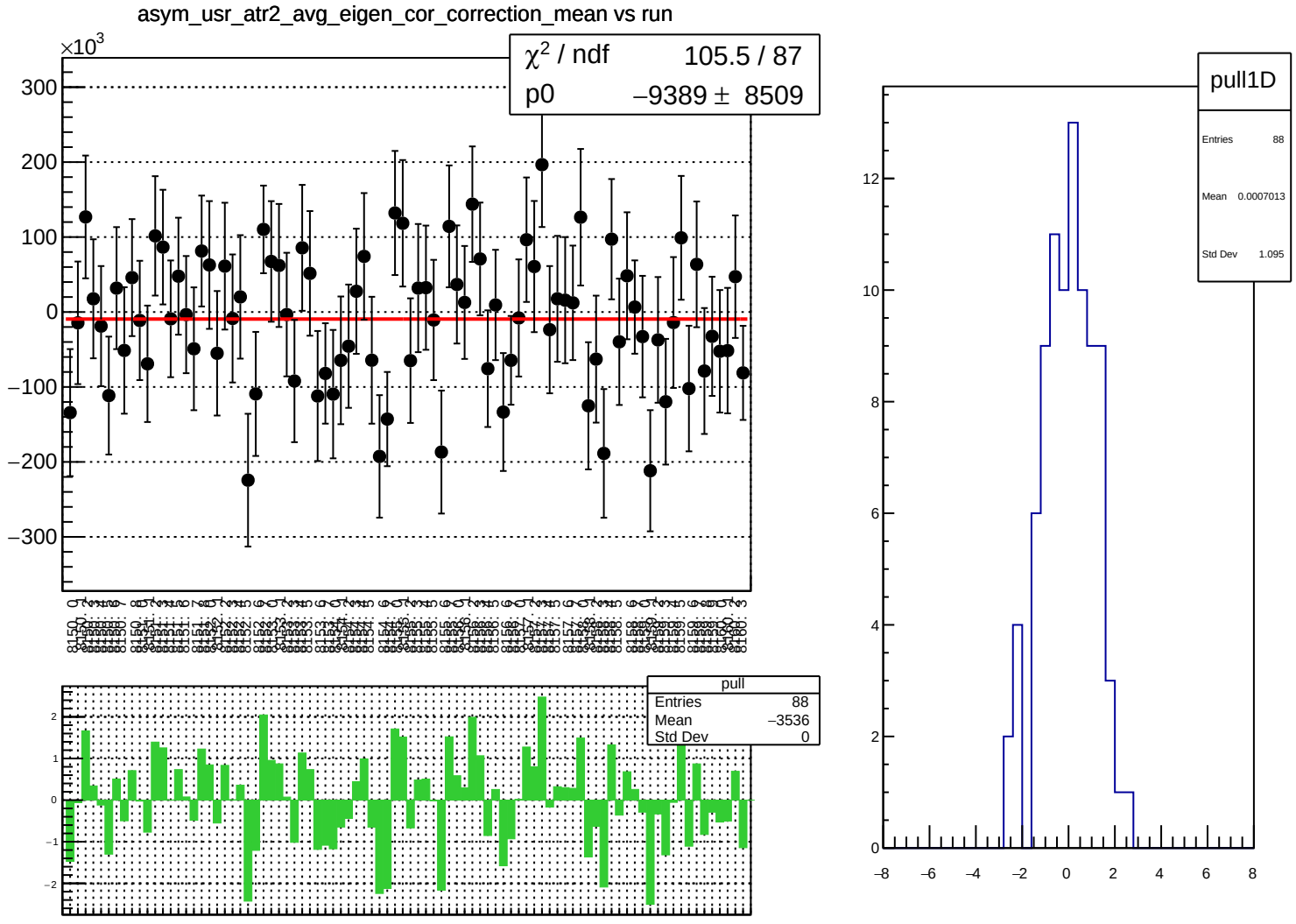

pull1D
Entries 88
Mean 0.0007013
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

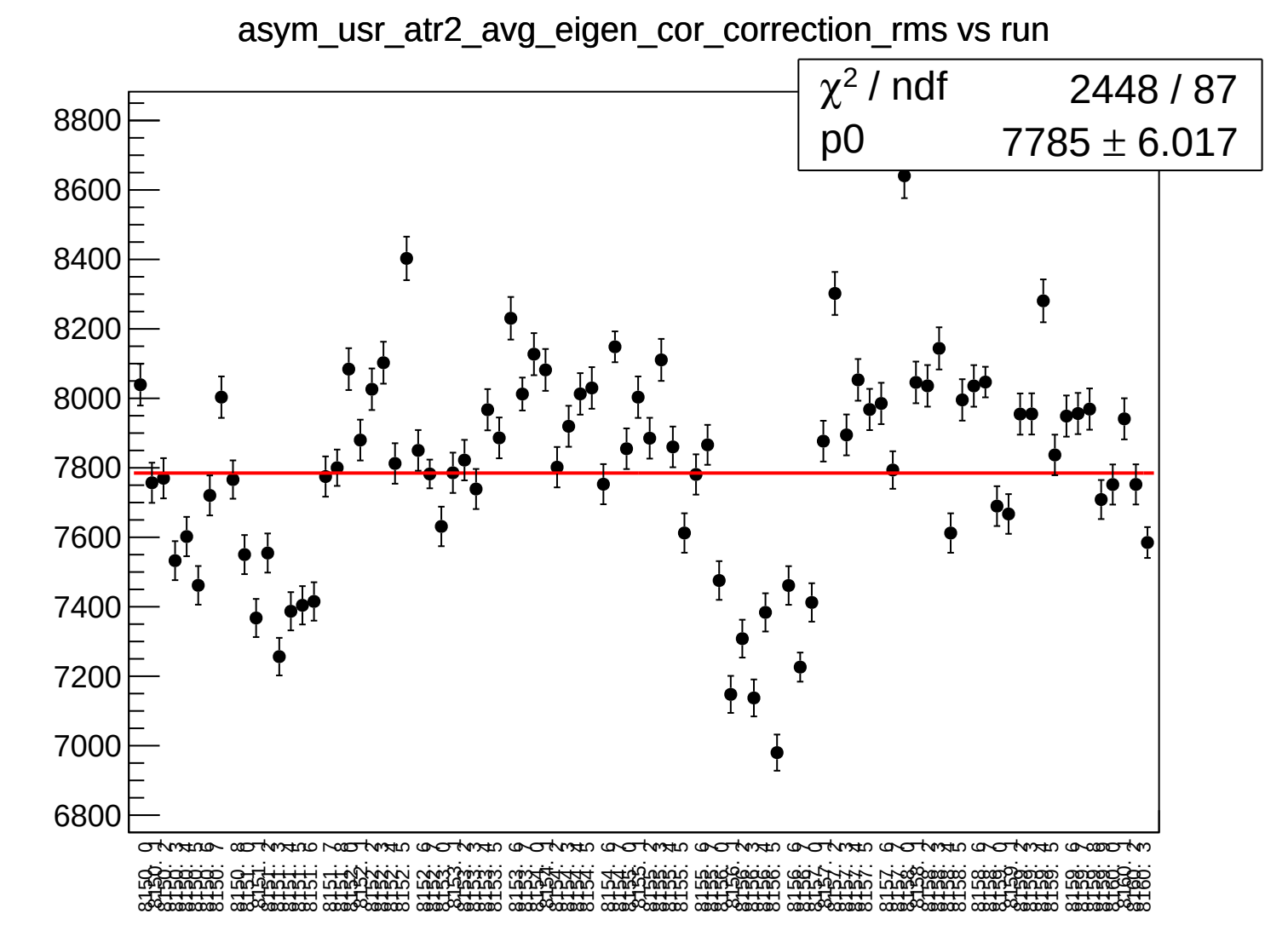

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 2448 / 87
p0 7785 ± 6.017
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

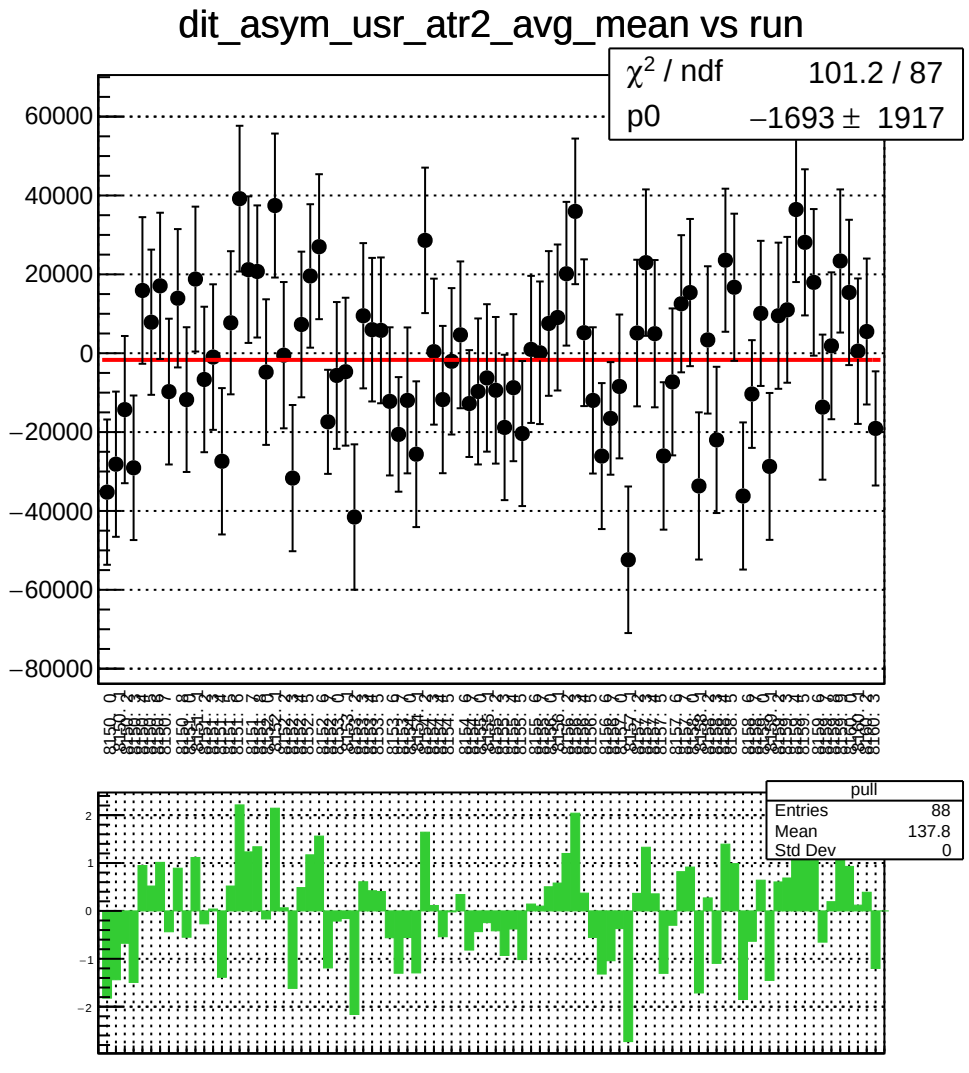

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 96.59 / 87
p0 −1391 ± 1903
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 147.2
Std Dev 0
2
1
0
−1
−2

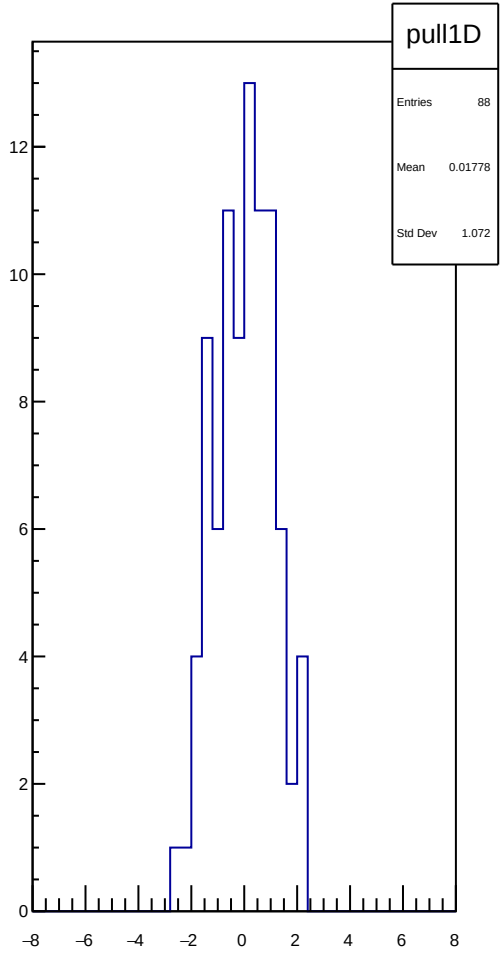

pull1D
Entries 88
Mean 0.01667
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

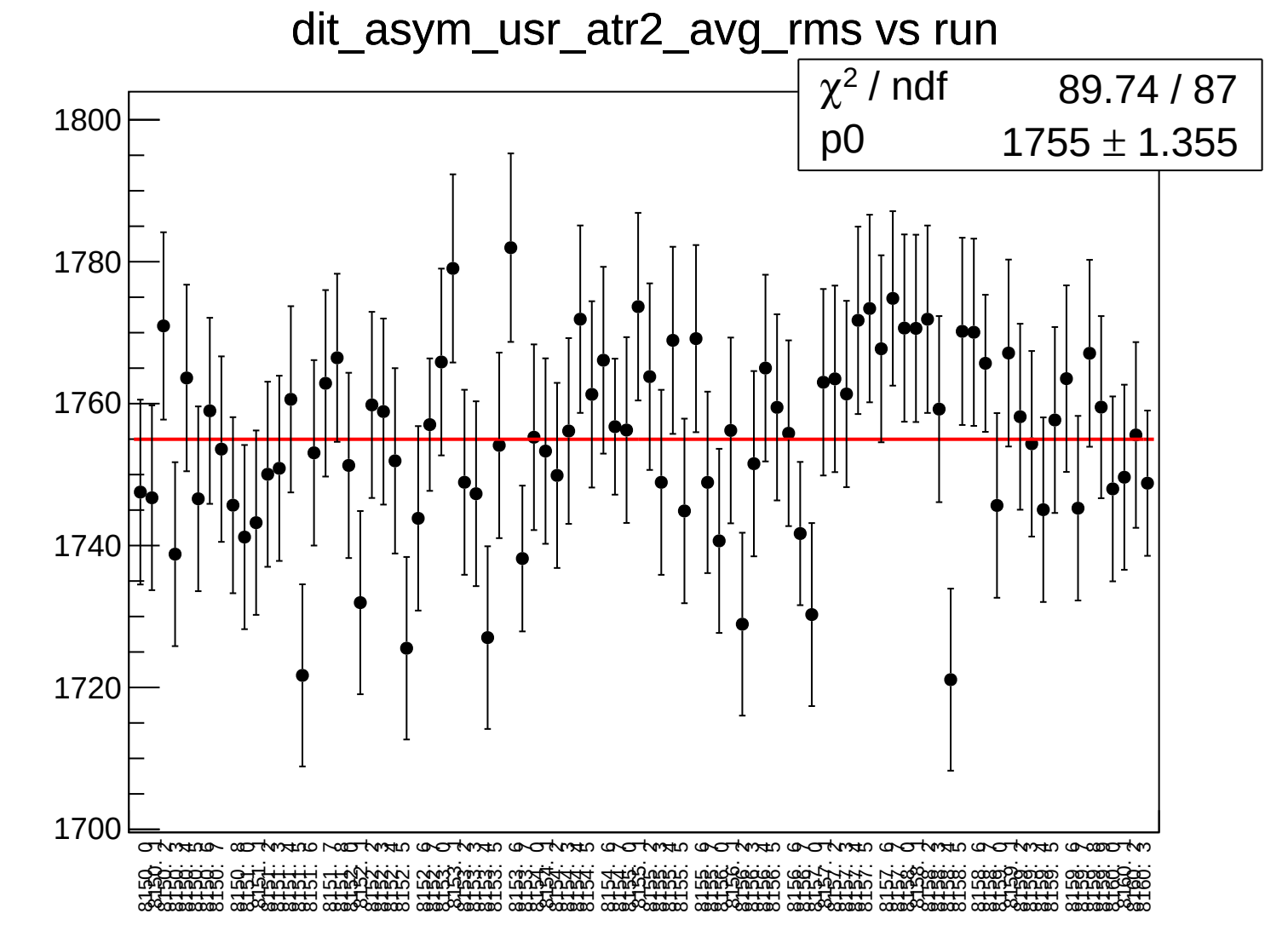

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 87.46 / 87
p0 1742 ± 1.346
1780
1760
1740
1720
1700

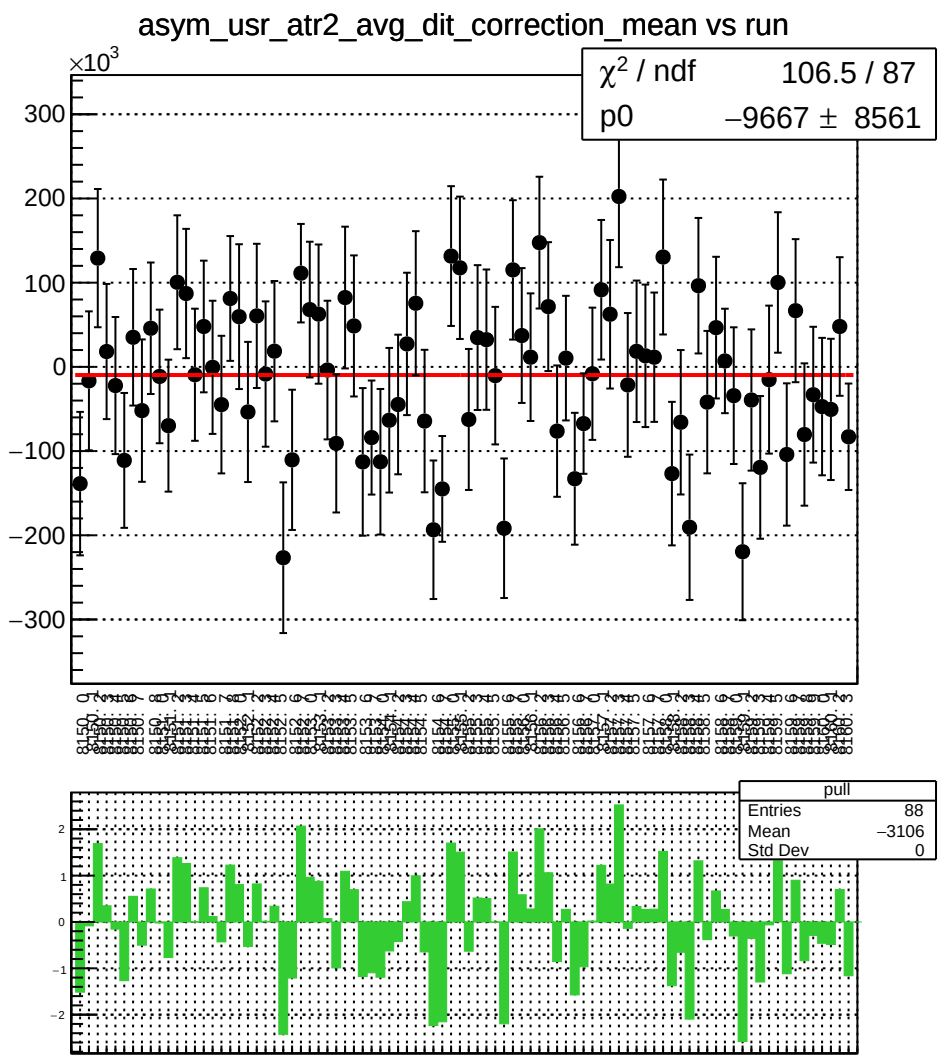

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 105.5 / 87
p0 −9389 ± 8509
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −3536
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0007013
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

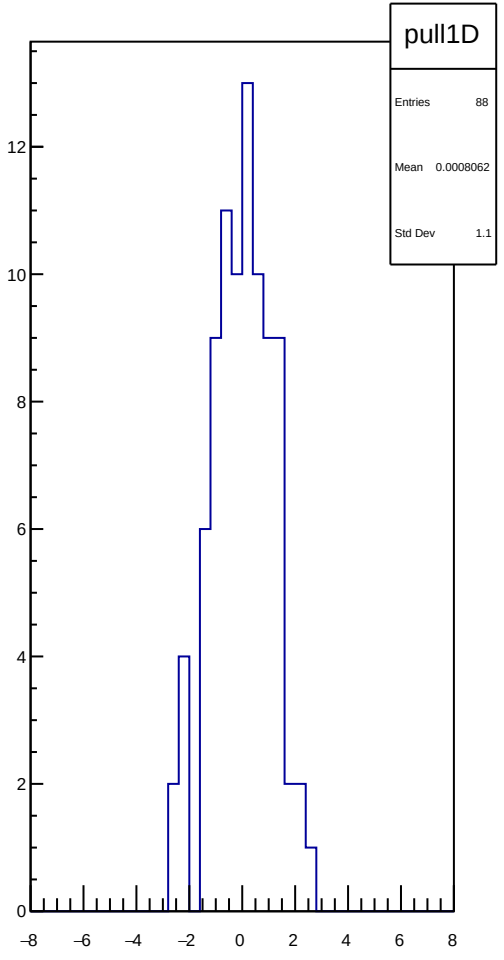

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2448 / 87
p0 7785 ± 6.017
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

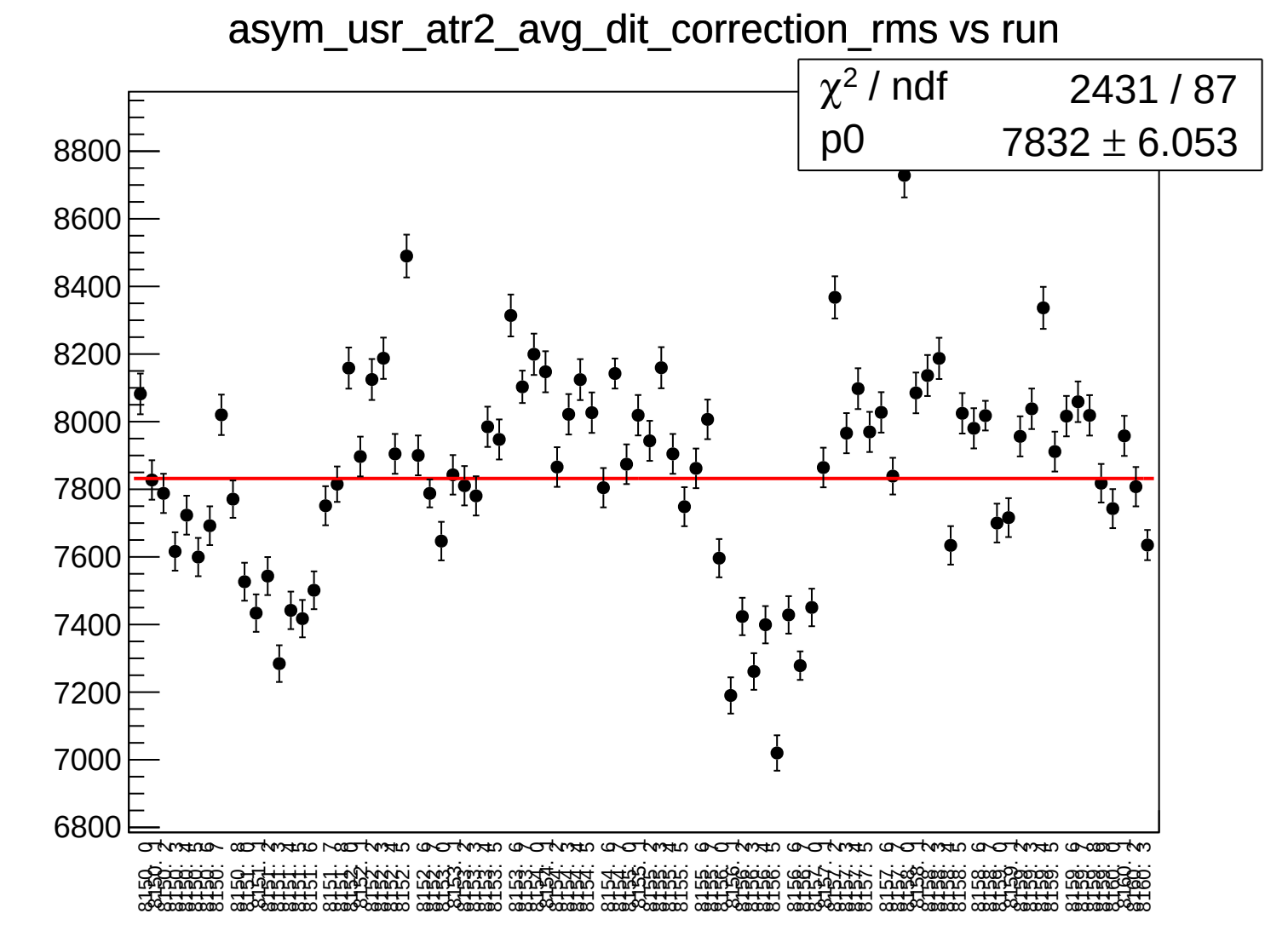

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 101.2 / 87
p0 −1693 ± 1917
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 137.8
Std Dev 0
2
1
0
−1
−2

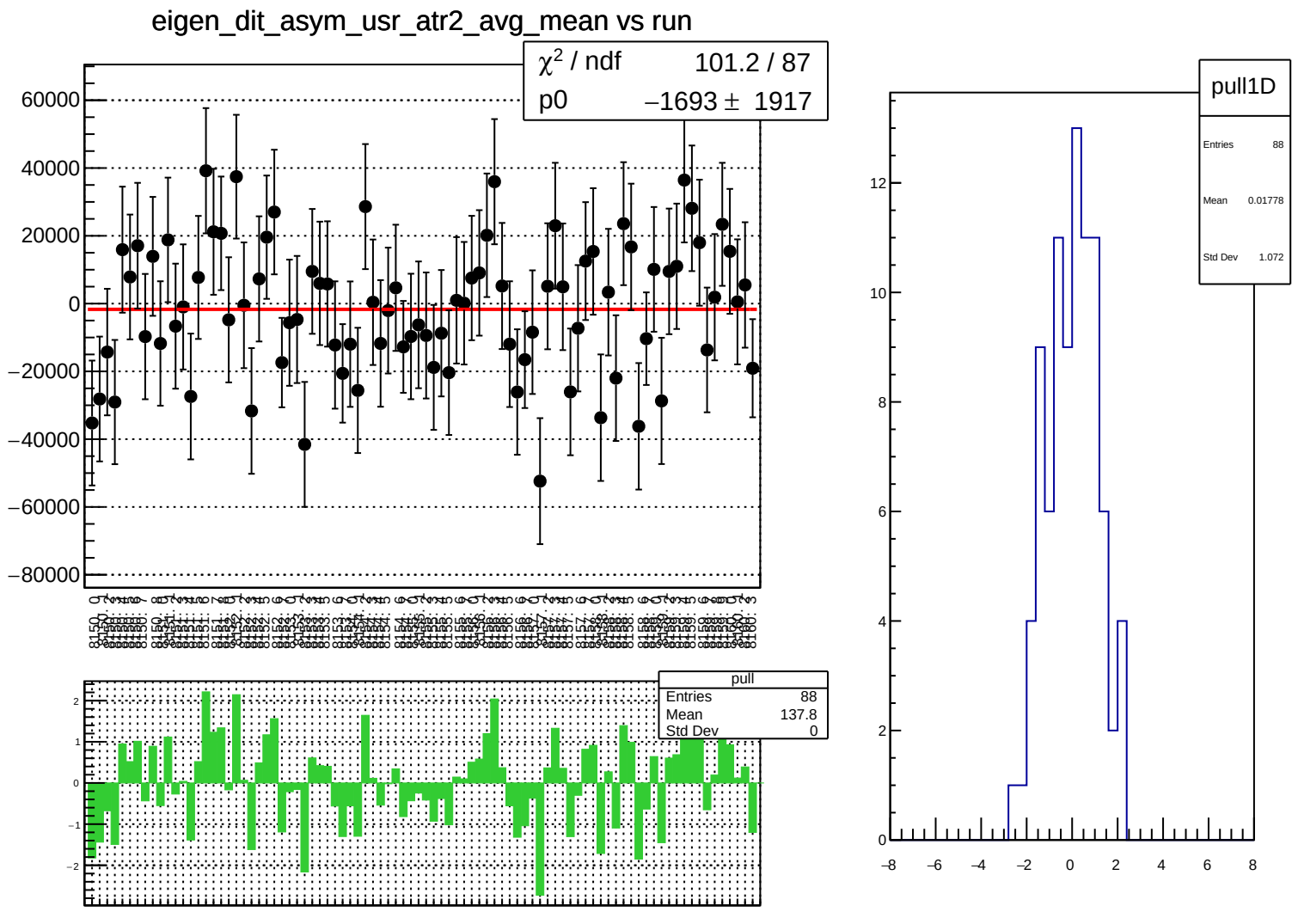

pull1D
Entries 88
Mean 0.01778
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

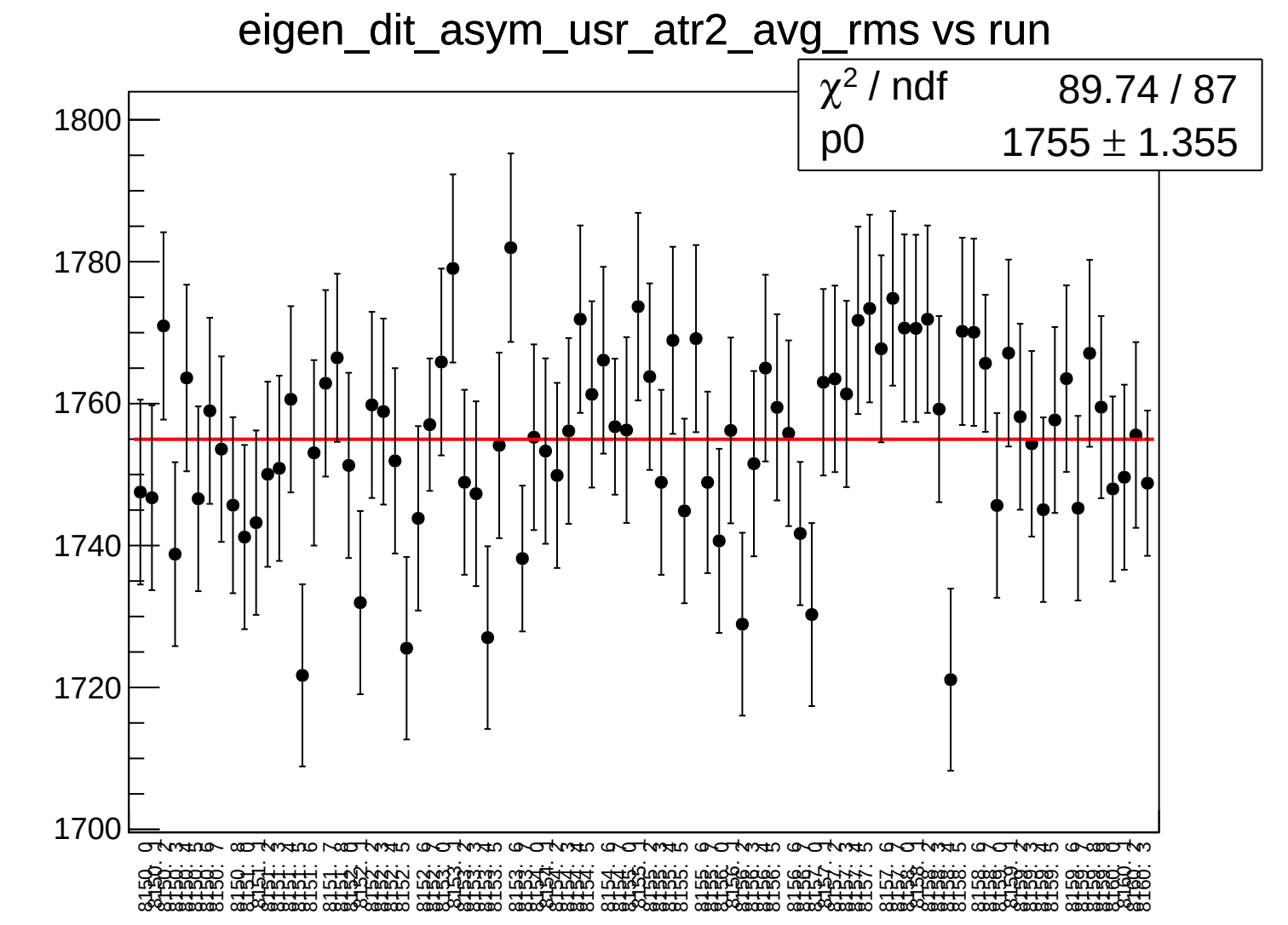

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 89.74 / 87
p0 1755 ± 1.355
1800
1780
1760
1740
1720
1700

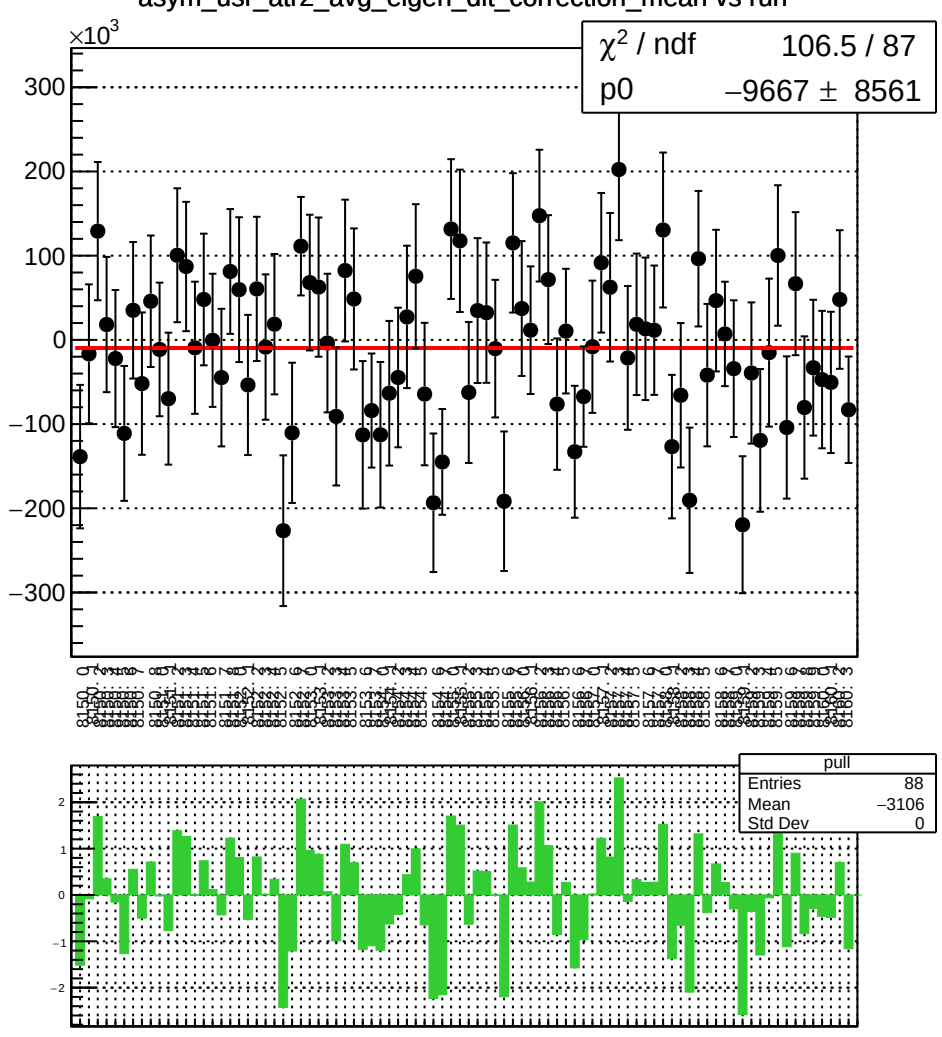

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 106.5 / 87
p0 −9667 ± 8561
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −3106
Std Dev 0
2
1
0
−1
−2

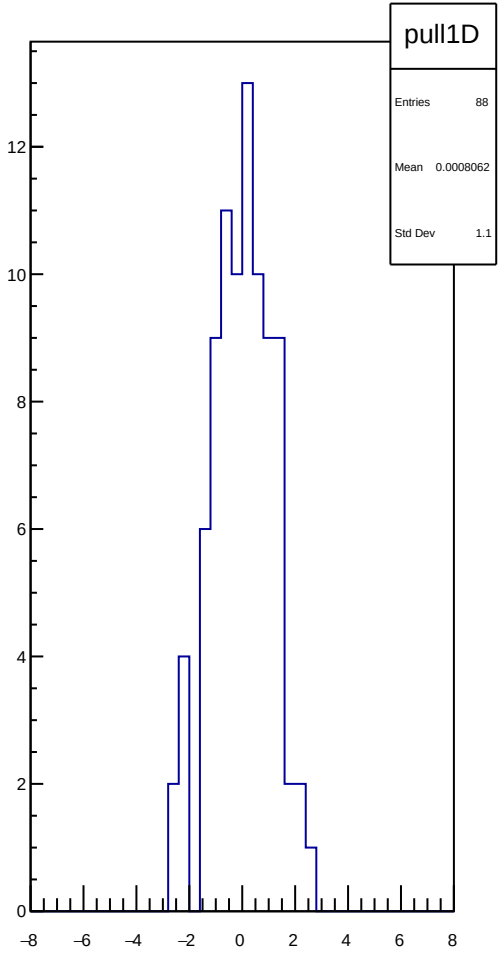

pull1D
Entries 88
Mean 0.0008062
Std Dev 1.1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

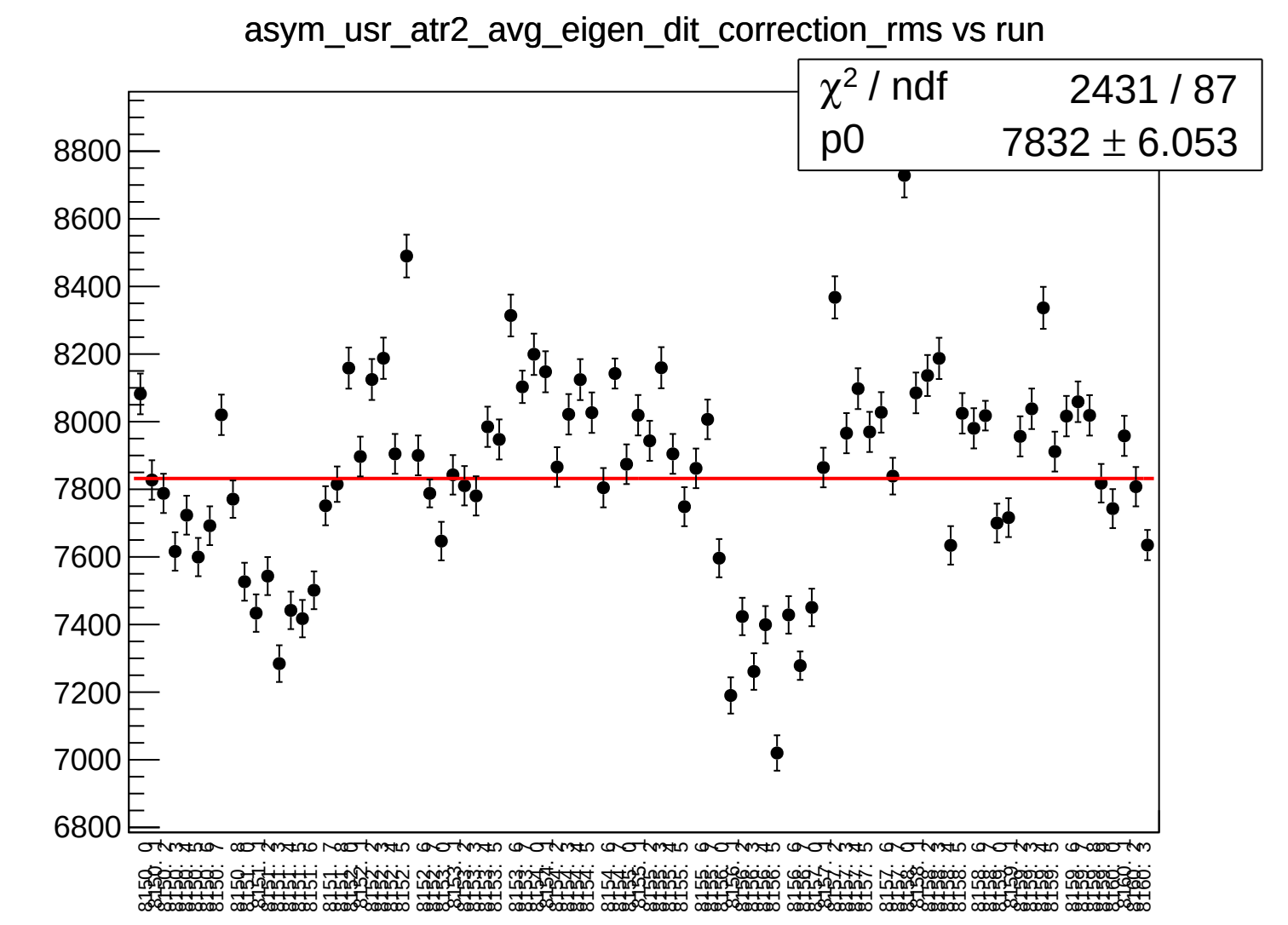

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 2431 / 87
p0 7832 ± 6.053
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

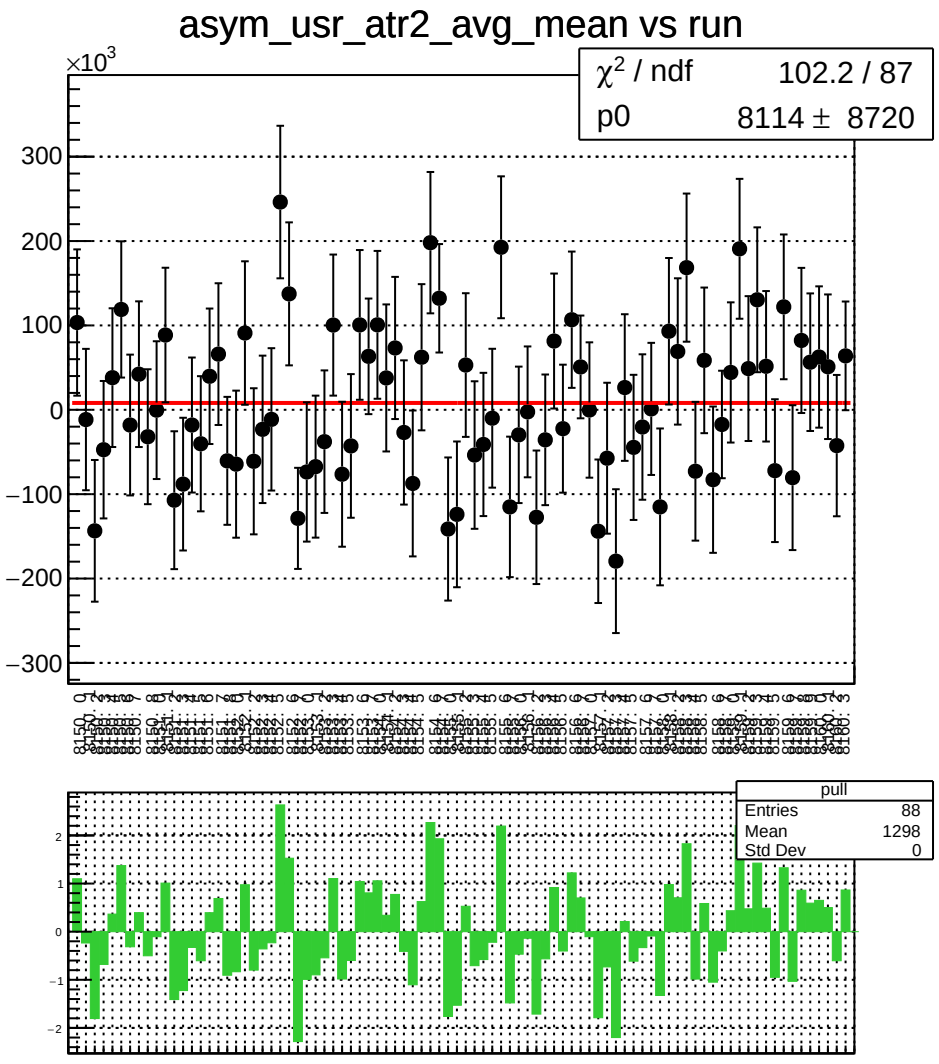

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 101.2 / 87
p0 −1693 ± 1917
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 137.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01778
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

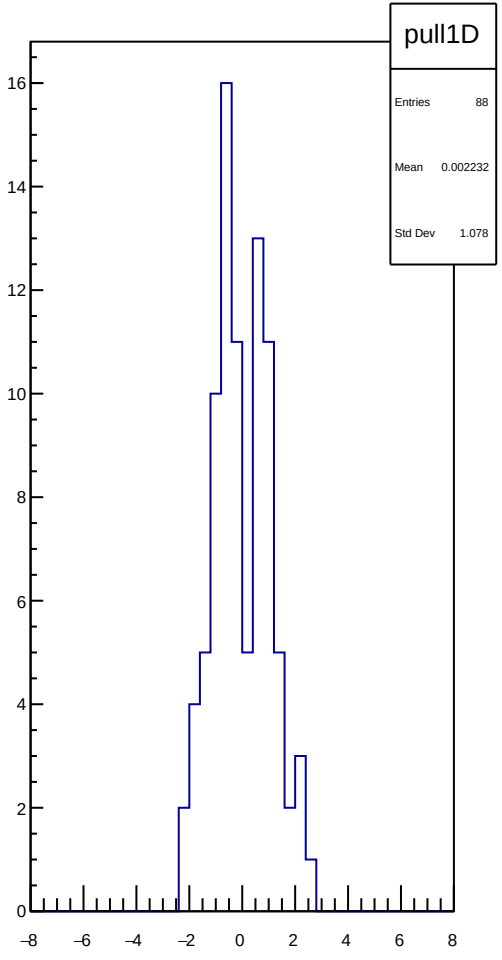

eigen_dit_asym_usr_atr2_avg_rms vs run
χ^2 / ndf 89.74 / 87
p0 1755 ± 1.355
1800
1780
1760
1740
1720
1700

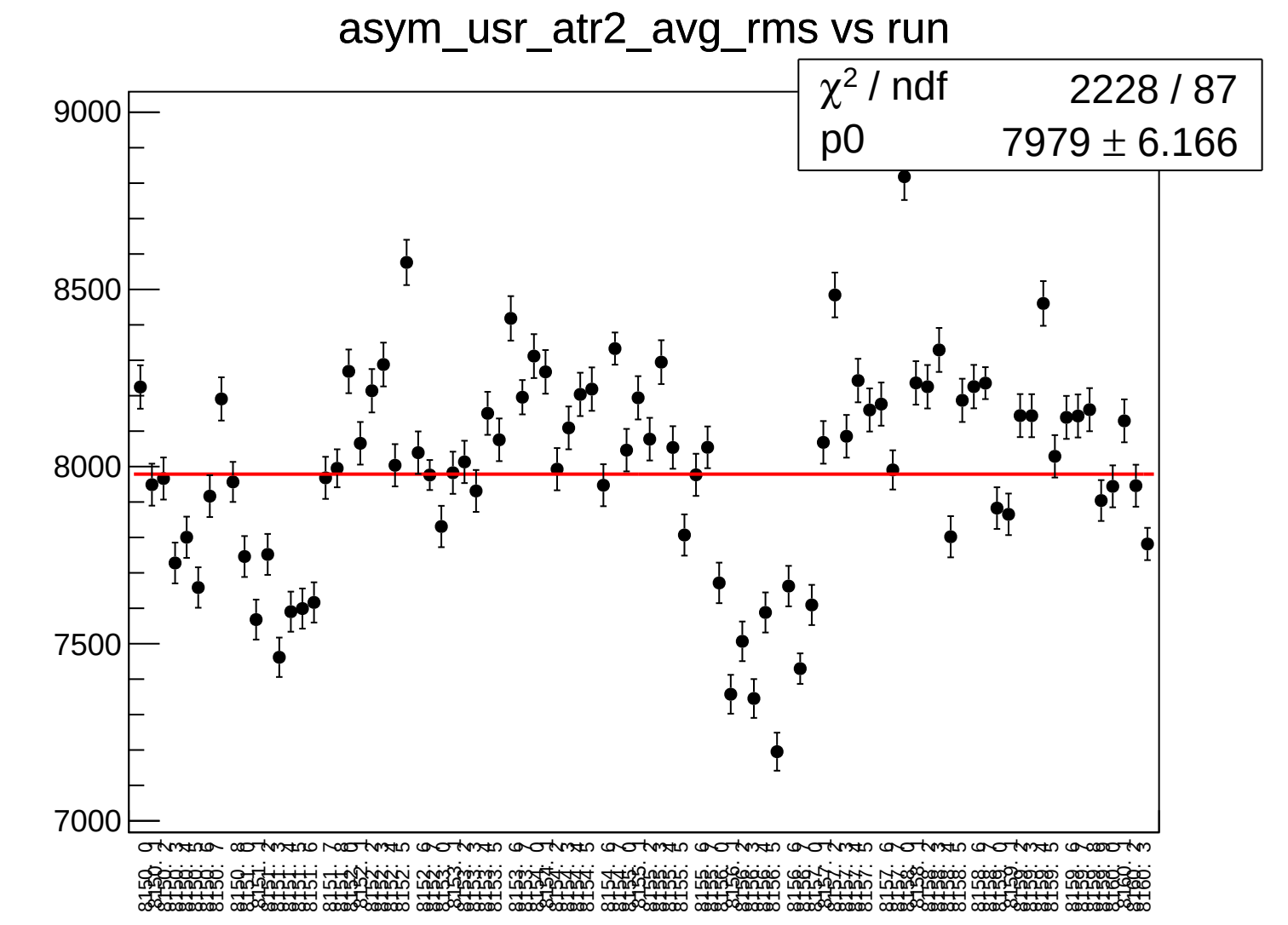

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 106.5 / 87
p0 −9667 ± 8561
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −3106
Std Dev 0
2
1
0
−1
−2

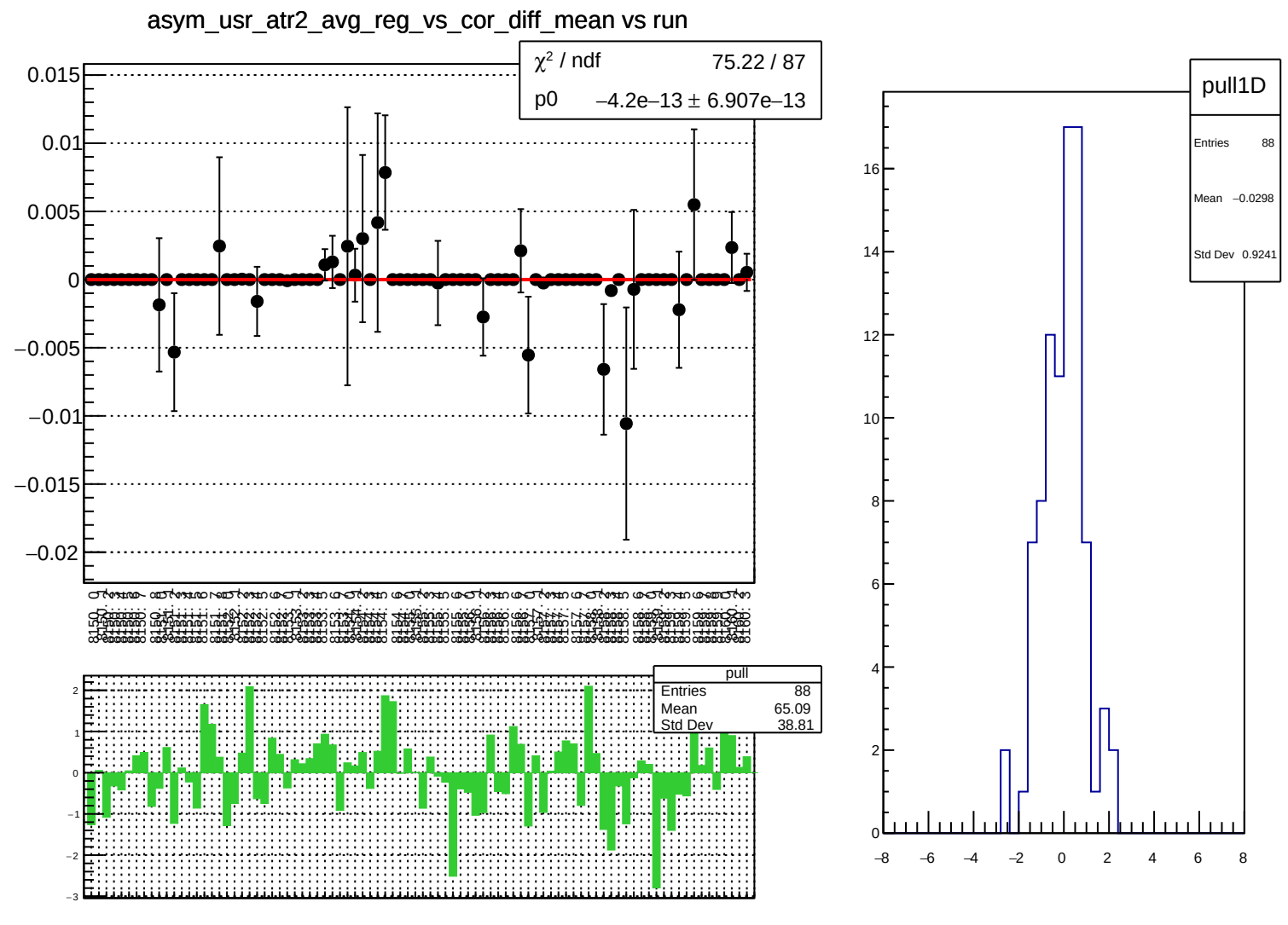

pull1D
Entries 88
Mean 0.0008062
Std Dev 1.1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

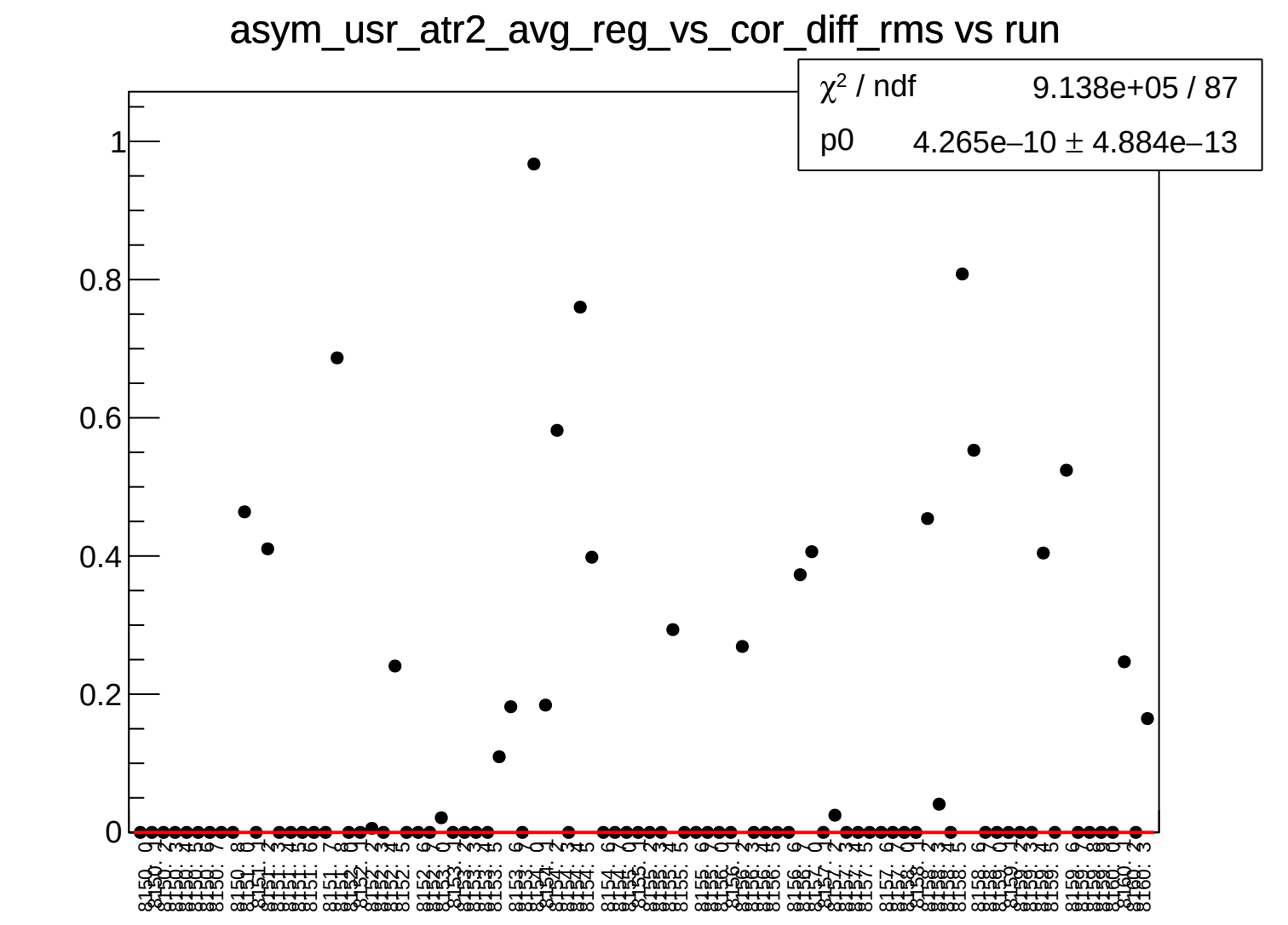

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2431 / 87
p0 7832 ± 6.053
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

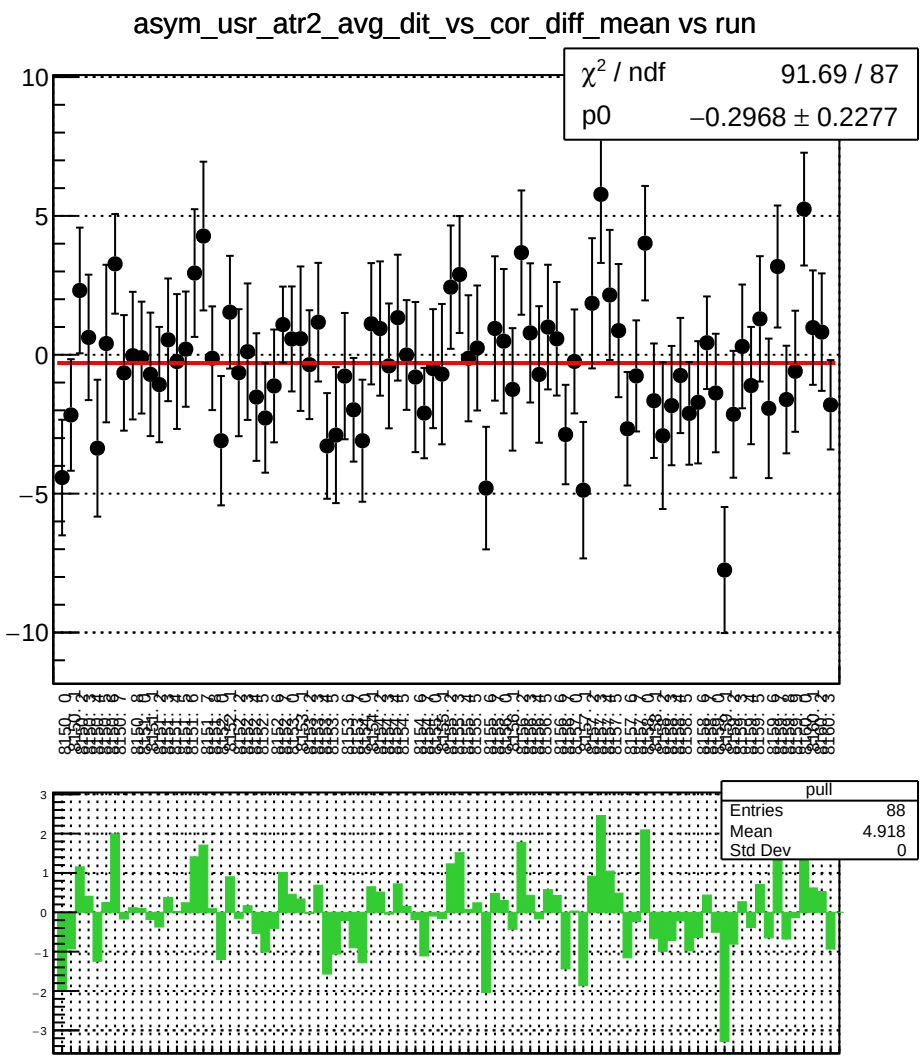

asym_usr_atr2_avg_mean vs run
χ^2 / ndf 102.2 / 87
p0 8114 ± 8720
×10^3
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 1298
Std Dev 0
2
1
0
−1
−2

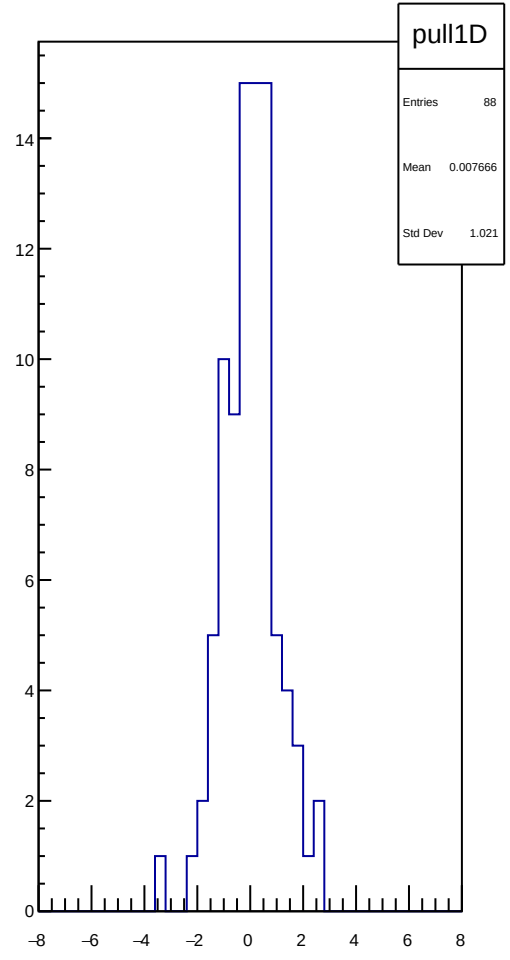

pull1D
Entries 88
Mean 0.002232
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

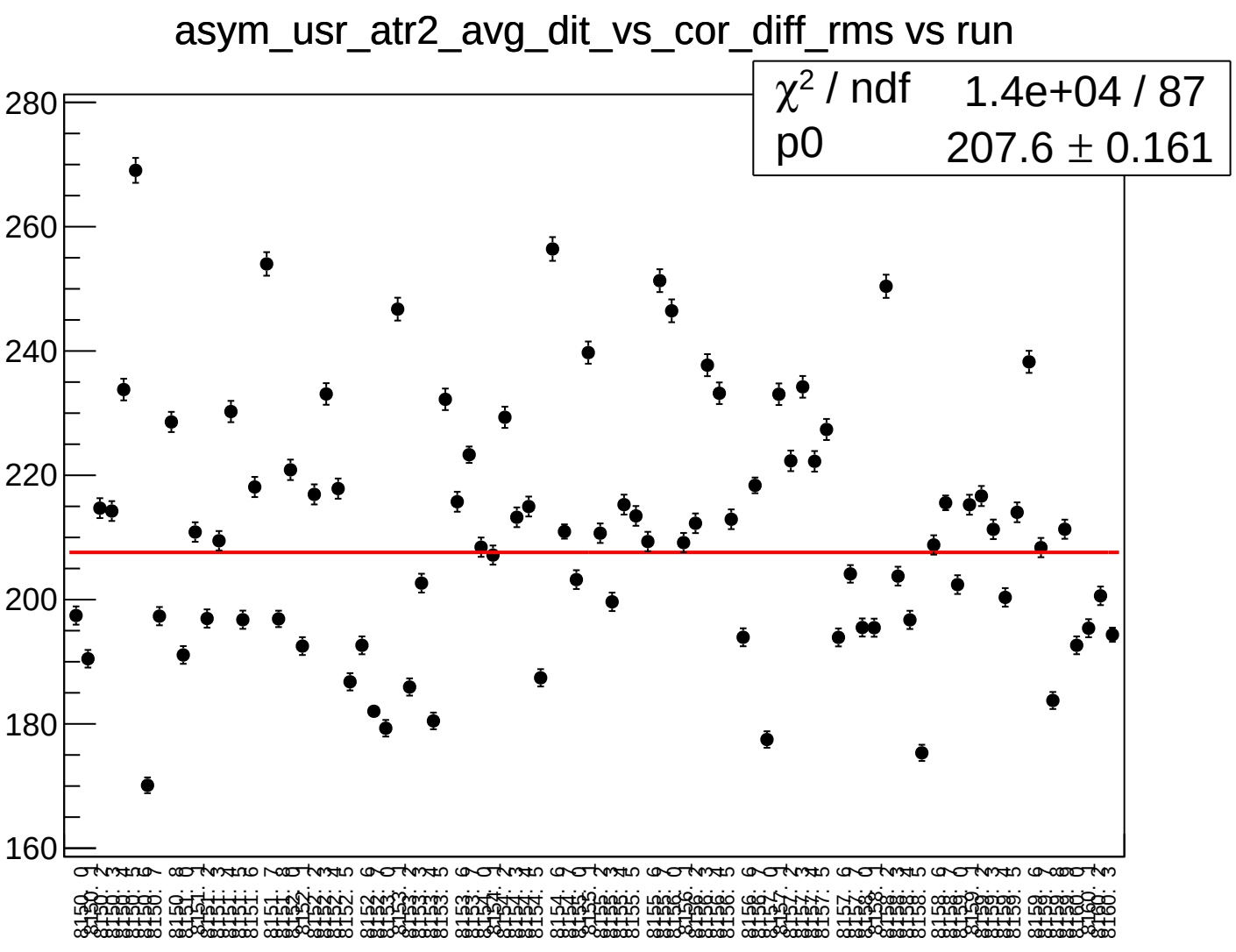

asym_usr_atr2_avg_rms vs run
χ² / ndf 2228 / 87
p0 7979 ± 6.166
9000
8500
8000
7500
7000

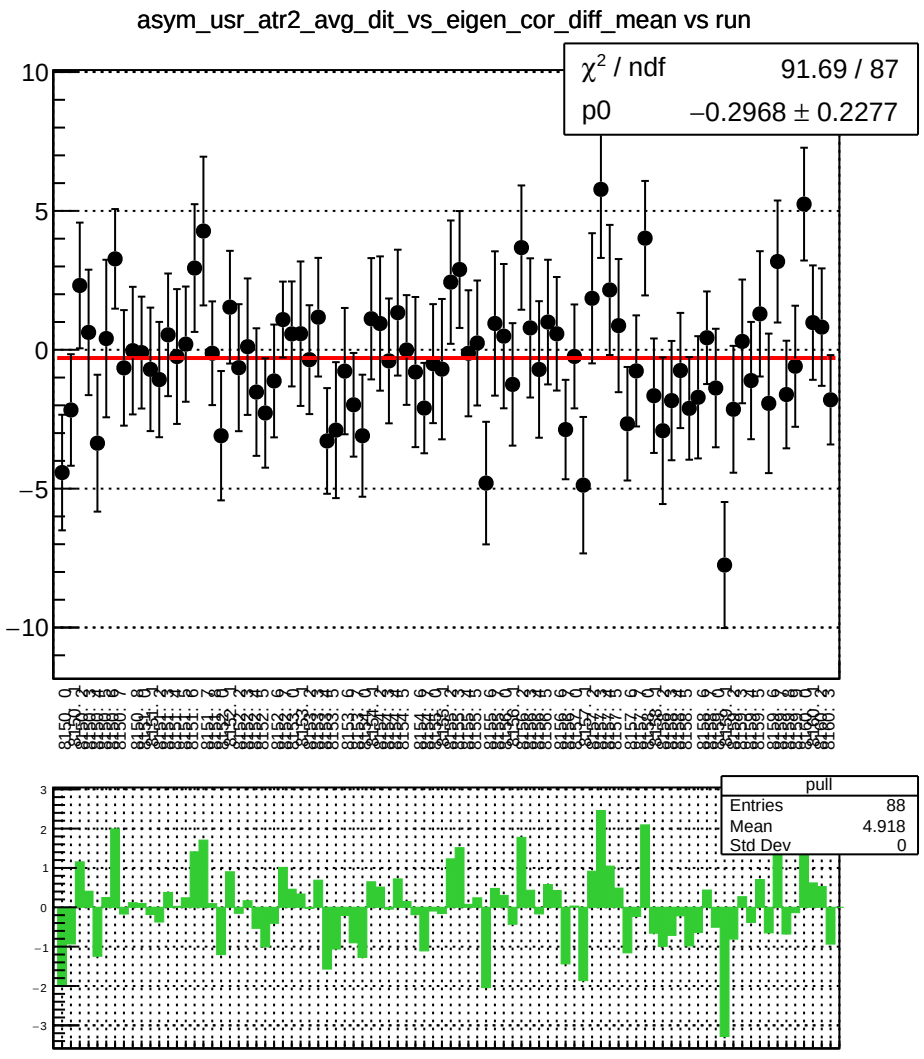

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.22 / 87
p0 −4.2e−13 ± 6.907e−13
pull
Entries 88
Mean 65.09
Std Dev 38.81
pull1D
Entries 88
Mean −0.0298
Std Dev 0.9241

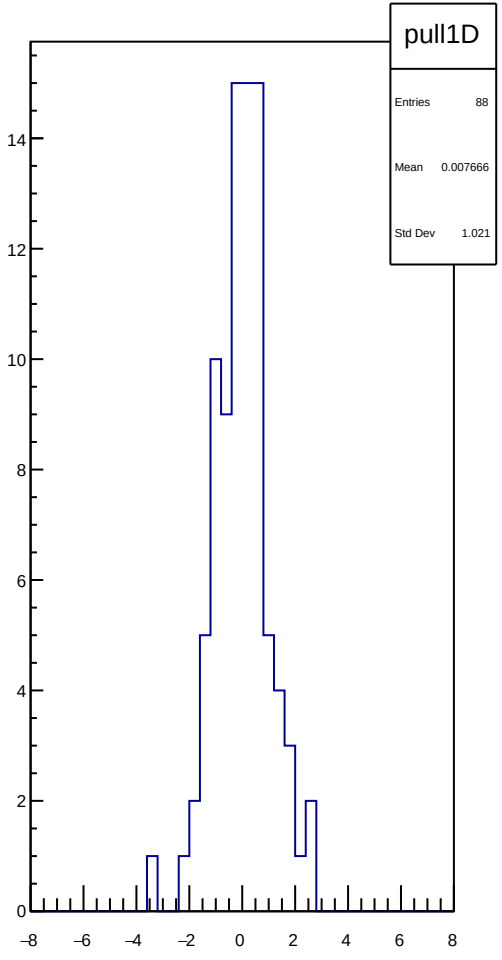

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.138e+05 / 87
p0 4.265e−10 ± 4.884e−13
1
0.8
0.6
0.4
0.2
0

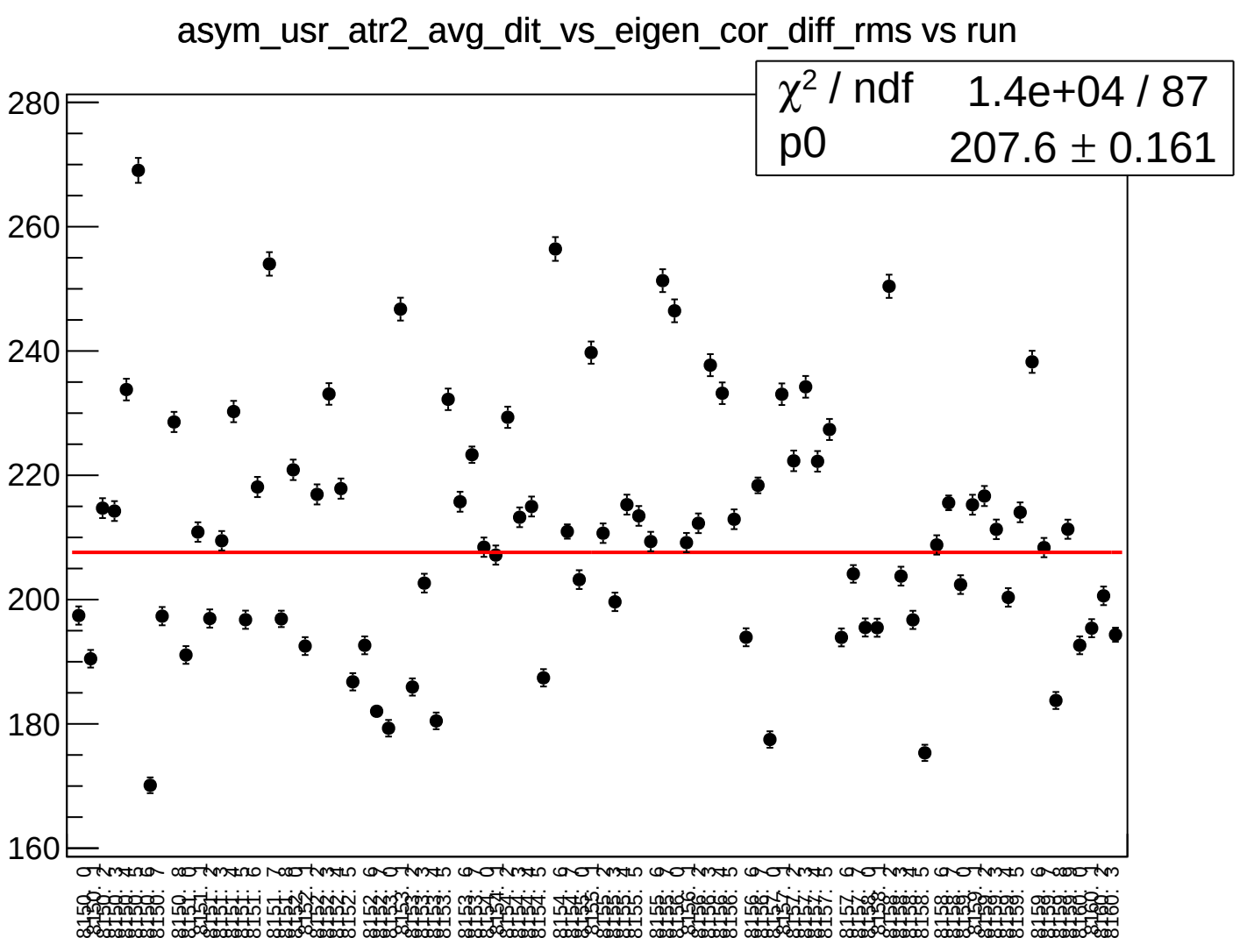

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.69 / 87
p0 −0.2968 ± 0.2277
pull
Entries 88
Mean 4.918
Std Dev 0

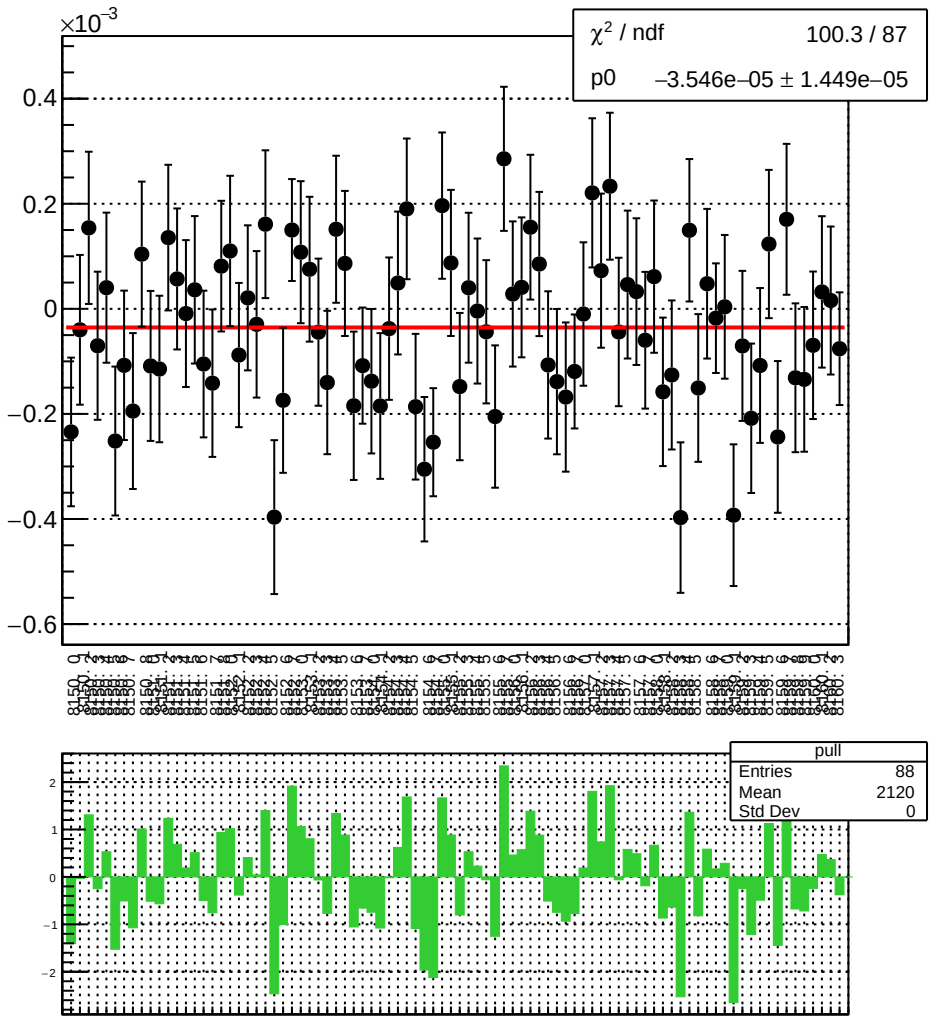

pull1D
Entries 88
Mean 0.007666
Std Dev 1.021

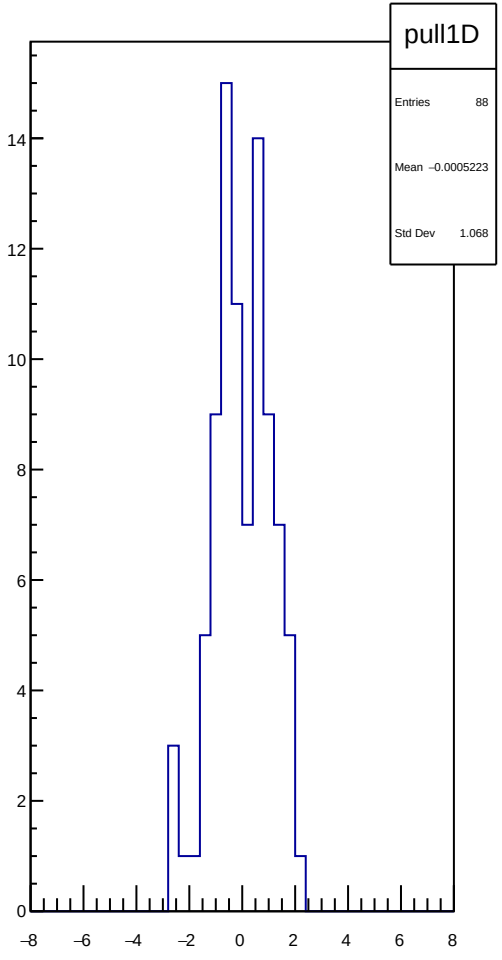

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.4e+04 / 87
p0 207.6 ± 0.161
280
260
240
220
200
180
160

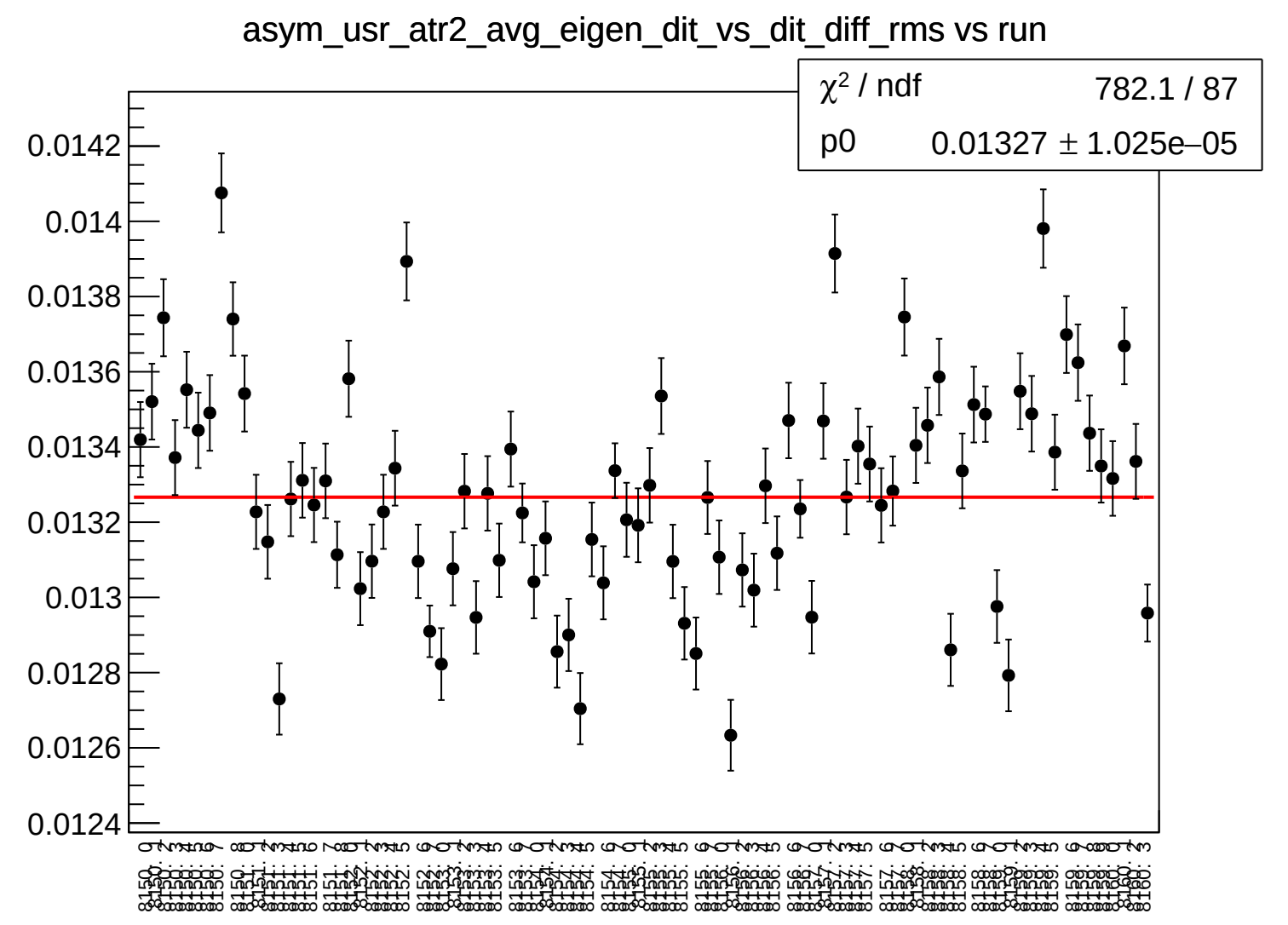

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.69 / 87
p0 −0.2968 ± 0.2277
pull
Entries 88
Mean 4.918
Std Dev 0

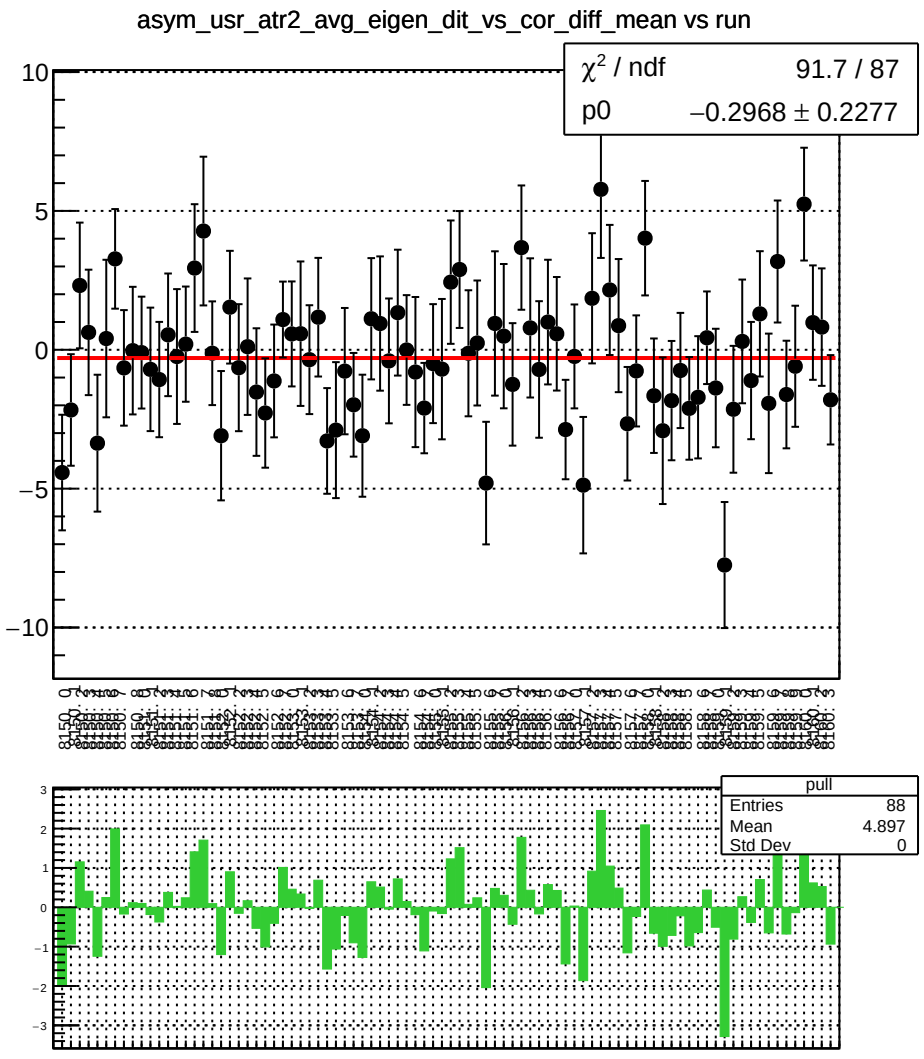

pull1D
Entries 88
Mean 0.007666
Std Dev 1.021

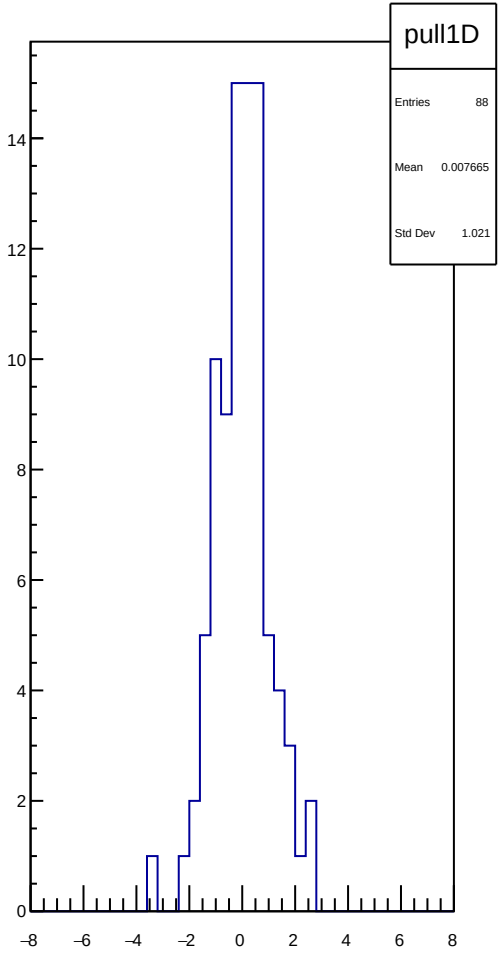

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.4e+04 / 87
p0 207.6 ± 0.161
280
260
240
220
200
180
160

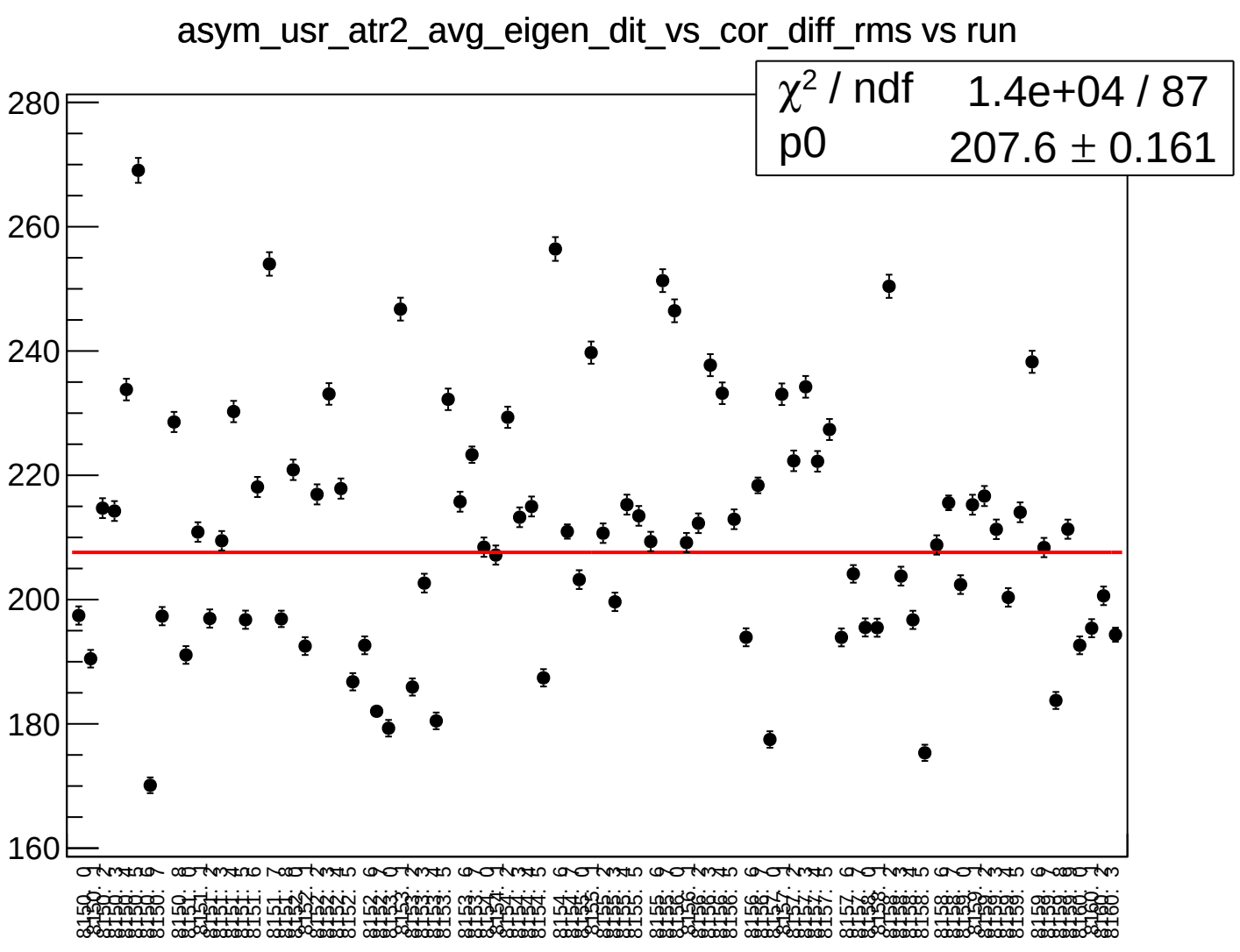

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.3 / 87
p0 −3.546e−05 ± 1.449e−05
pull
Entries 88
Mean 2120
Std Dev 0

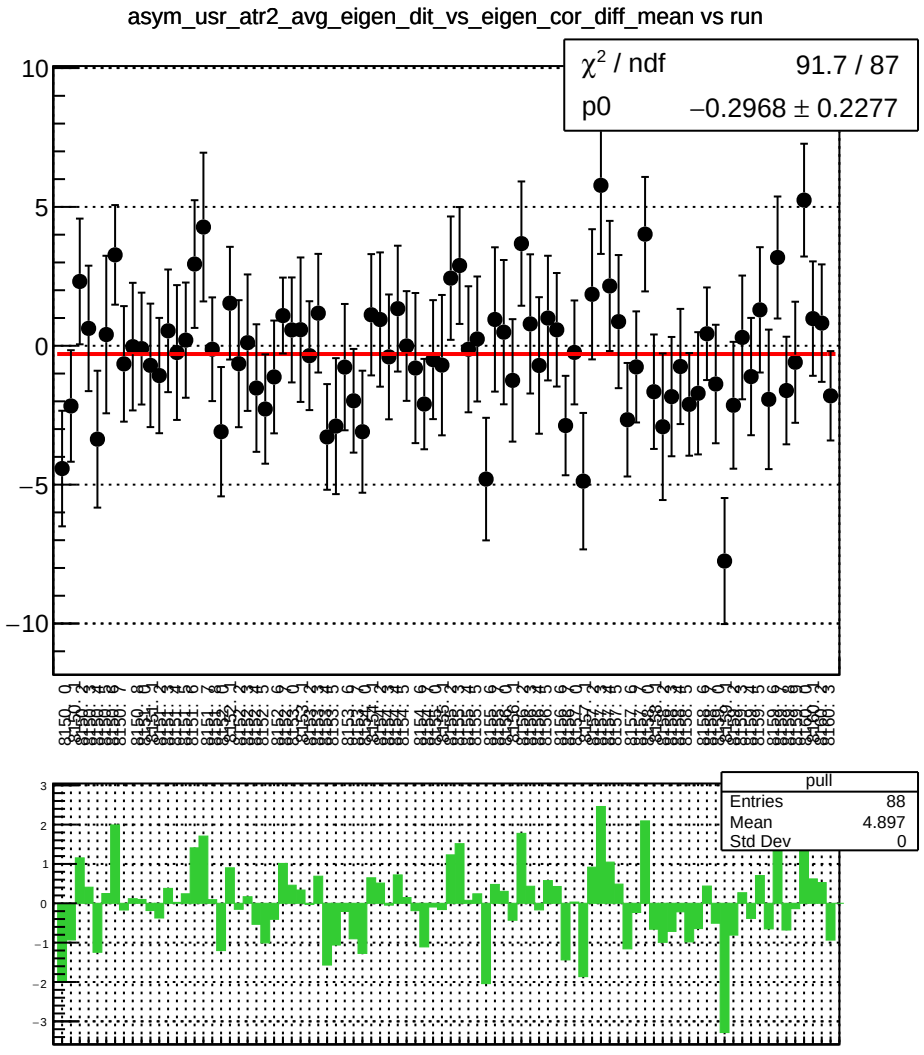

pull1D
Entries 88
Mean −0.0005223
Std Dev 1.068

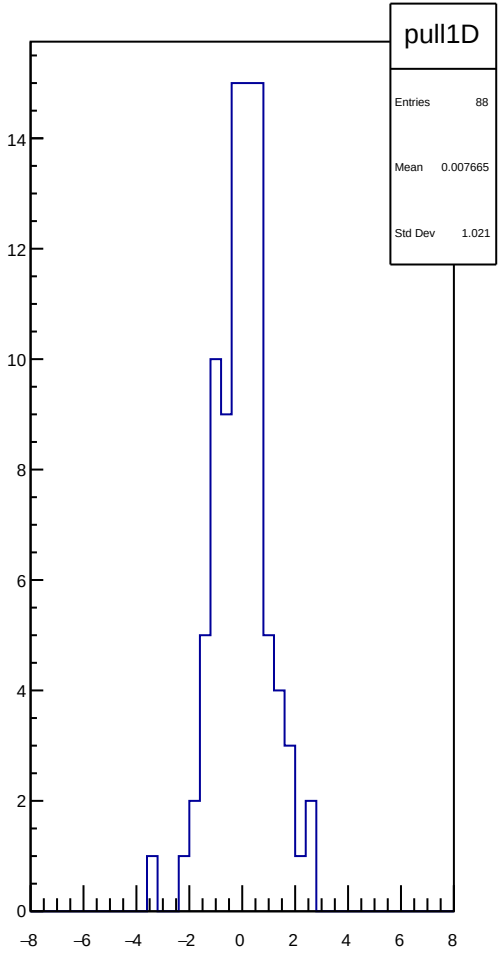

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 782.1 / 87
p0 0.01327 ± 1.025e−05
0.0142
0.014
0.0138
0.0136
0.0134
0.0132
0.013
0.0128
0.0126
0.0124

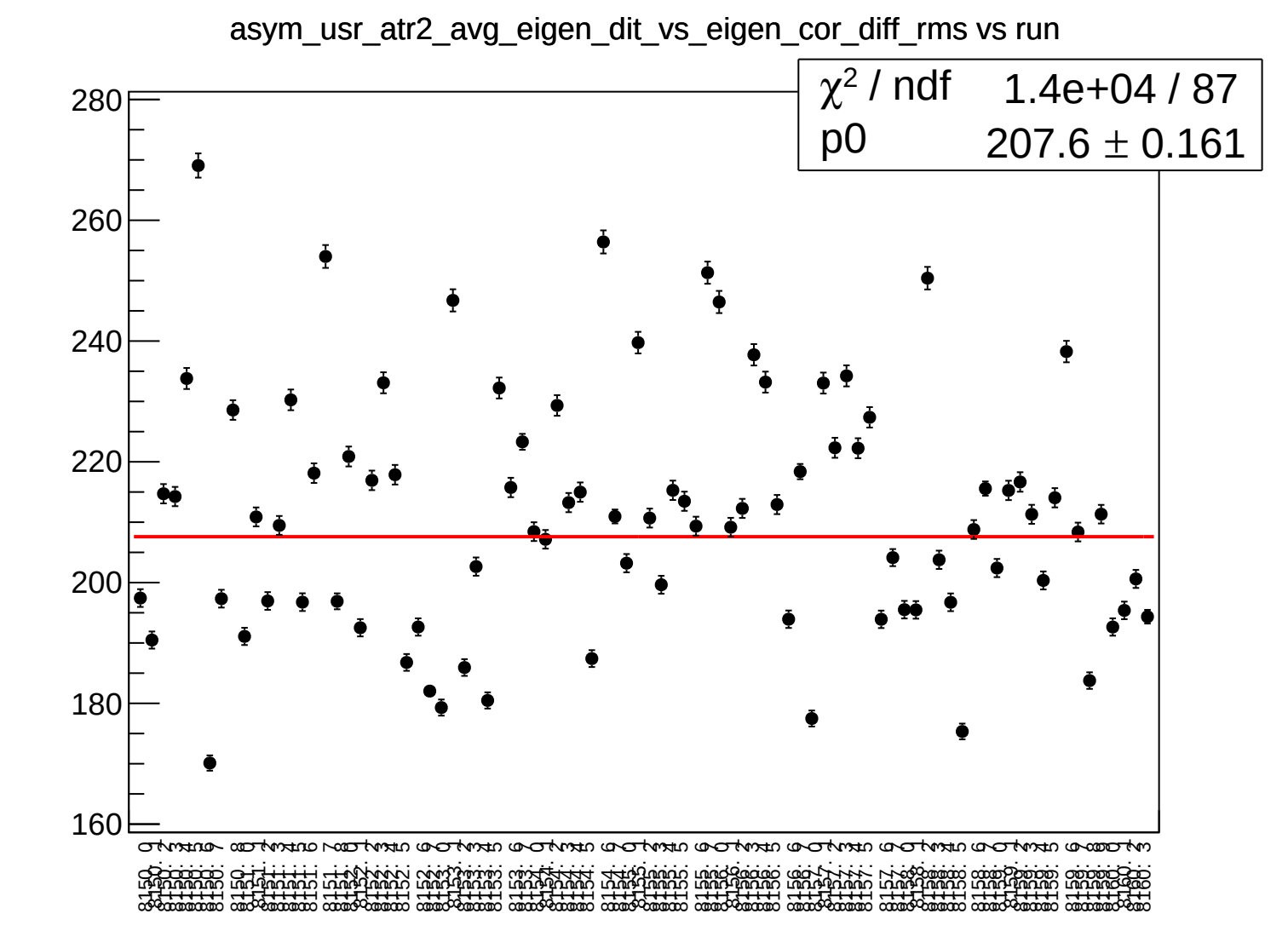

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.7 / 87
p0 −0.2968 ± 0.2277
pull
Entries 88
Mean 4.897
Std Dev 0

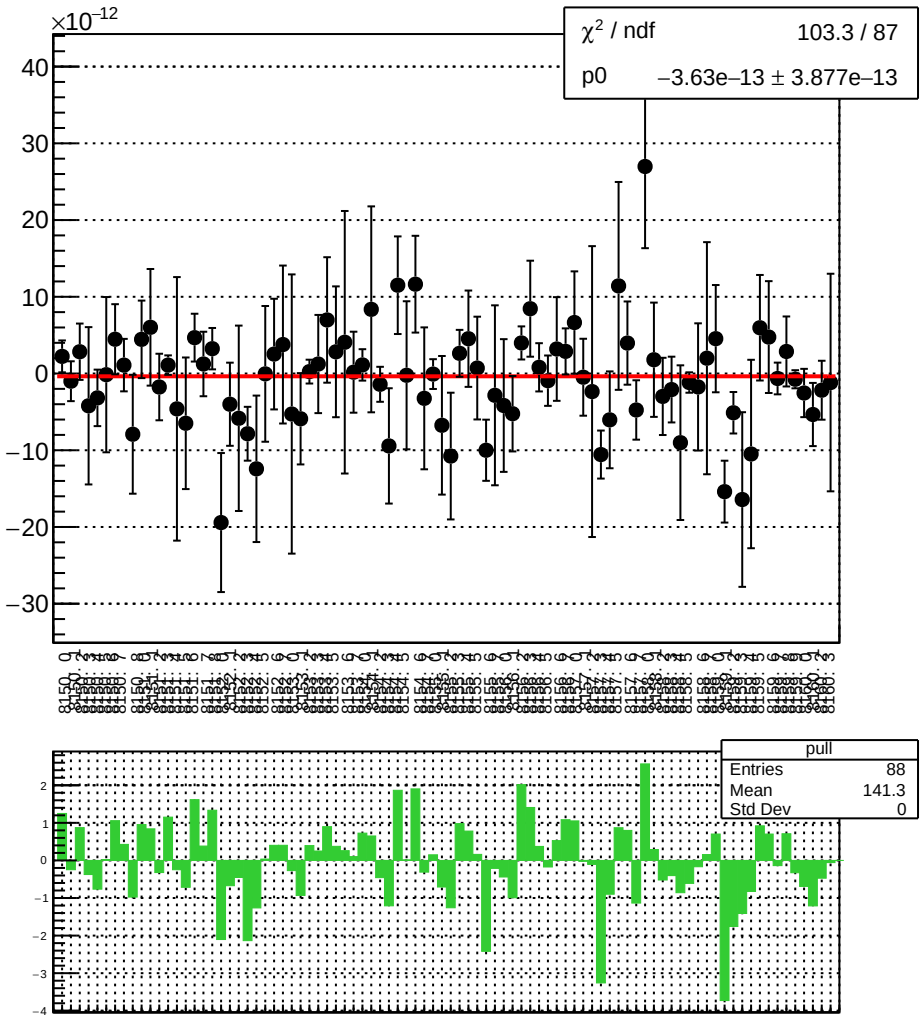

pull1D
Entries 88
Mean 0.007665
Std Dev 1.021

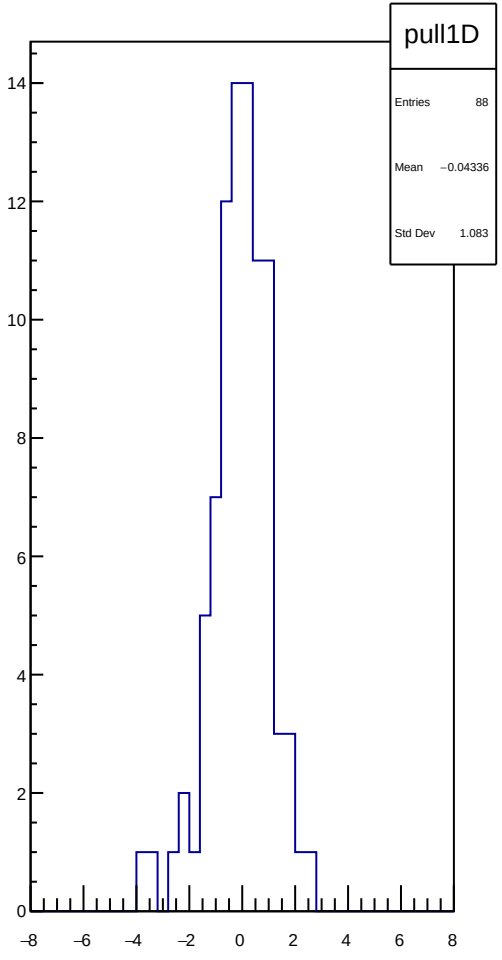

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.4e+04 / 87
p0 207.6 ± 0.161
280
260
240
220
200
180
160

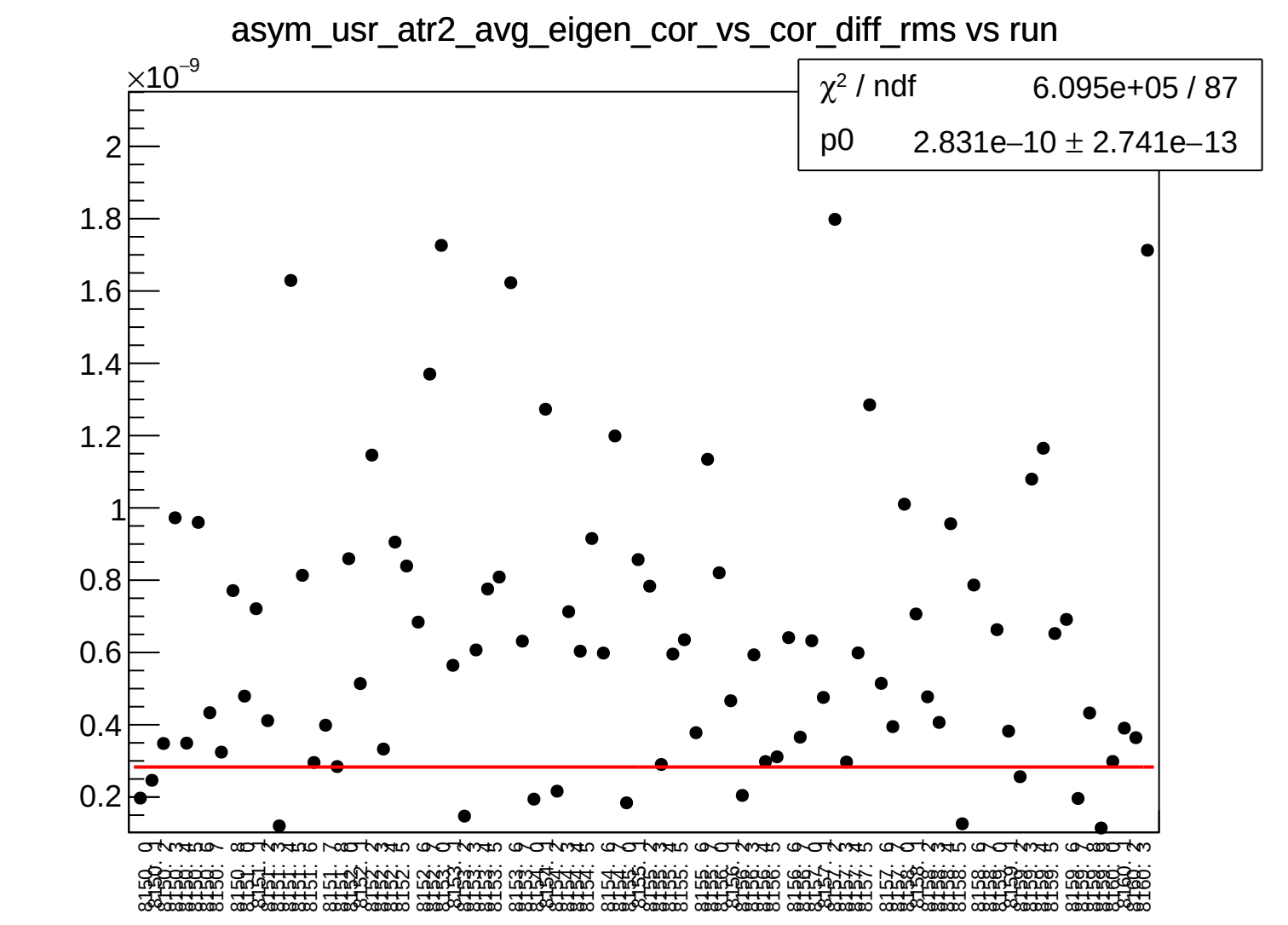

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.7 / 87
p0 −0.2968 ± 0.2277
pull
Entries 88
Mean 4.897
Std Dev 0

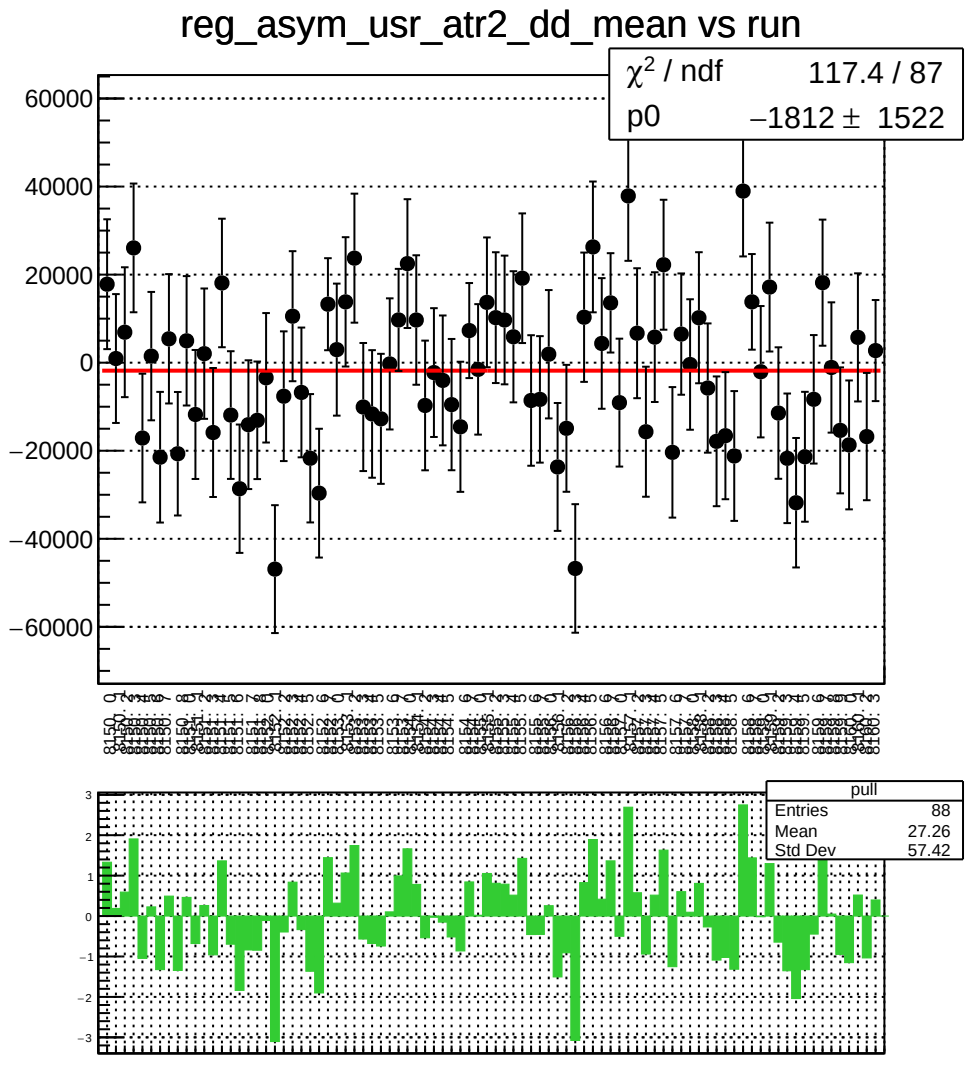

pull1D
Entries 88
Mean 0.007665
Std Dev 1.021

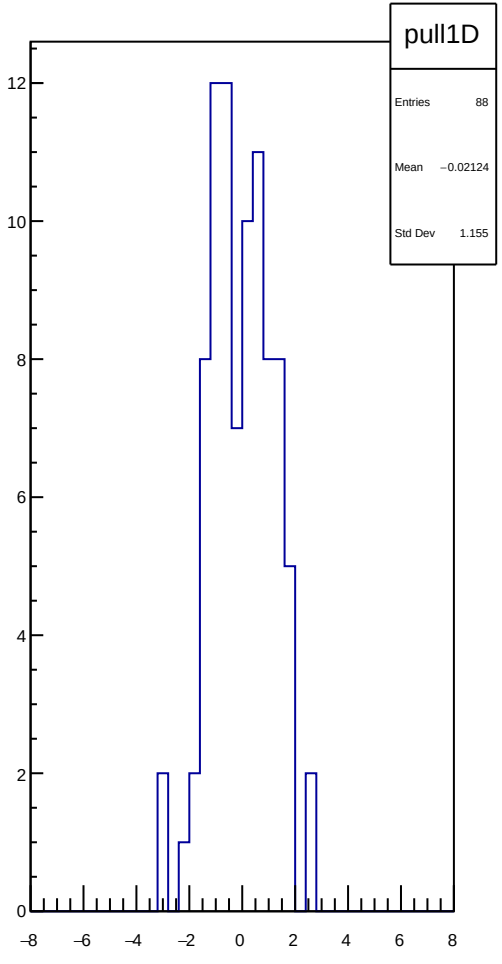

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.4e+04 / 87
p0 207.6 ± 0.161
280
260
240
220
200
180
160

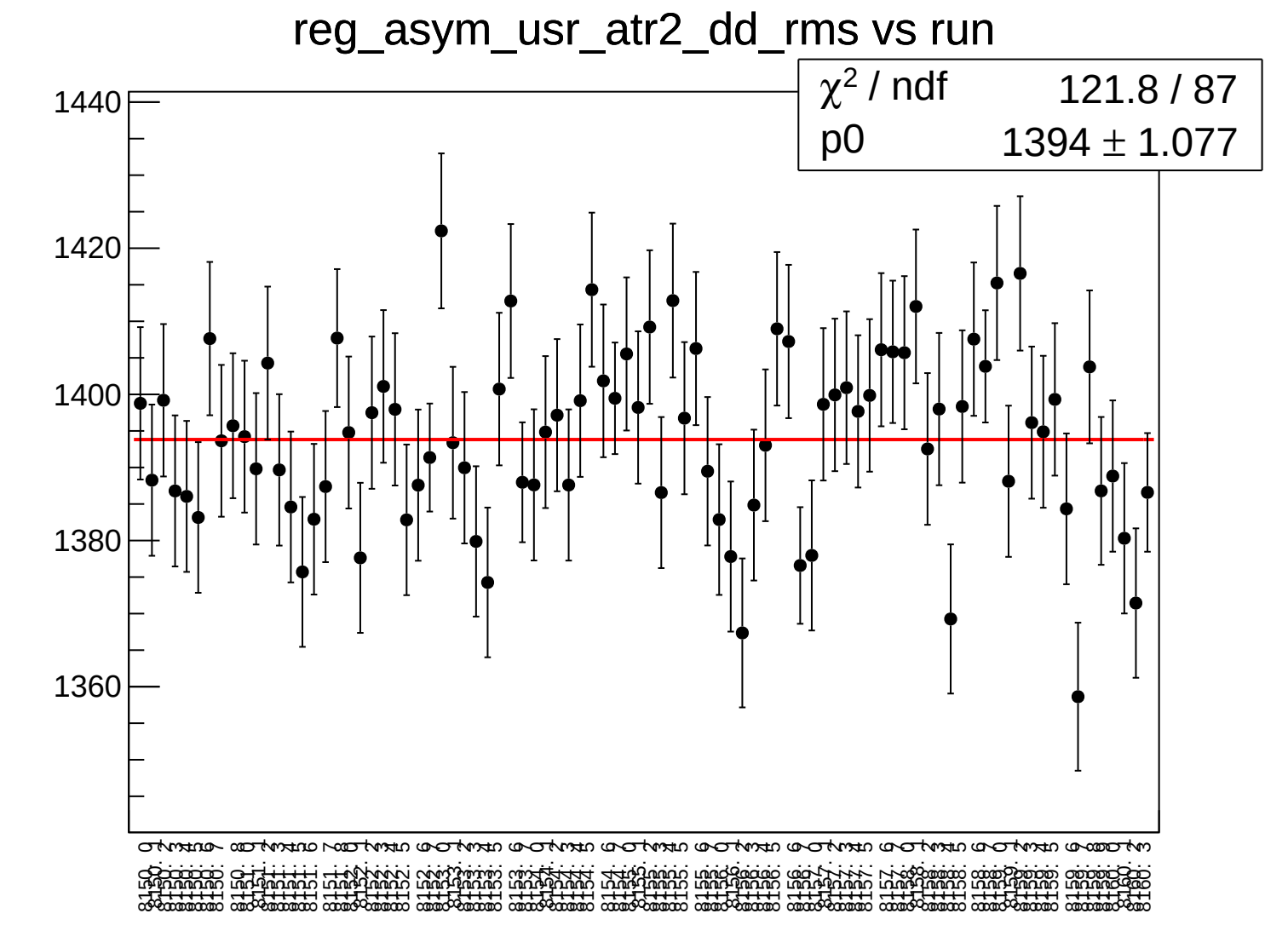

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.3 / 87
p0 −3.63e−13 ± 3.877e−13
pull
Entries 88
Mean 141.3
Std Dev 0

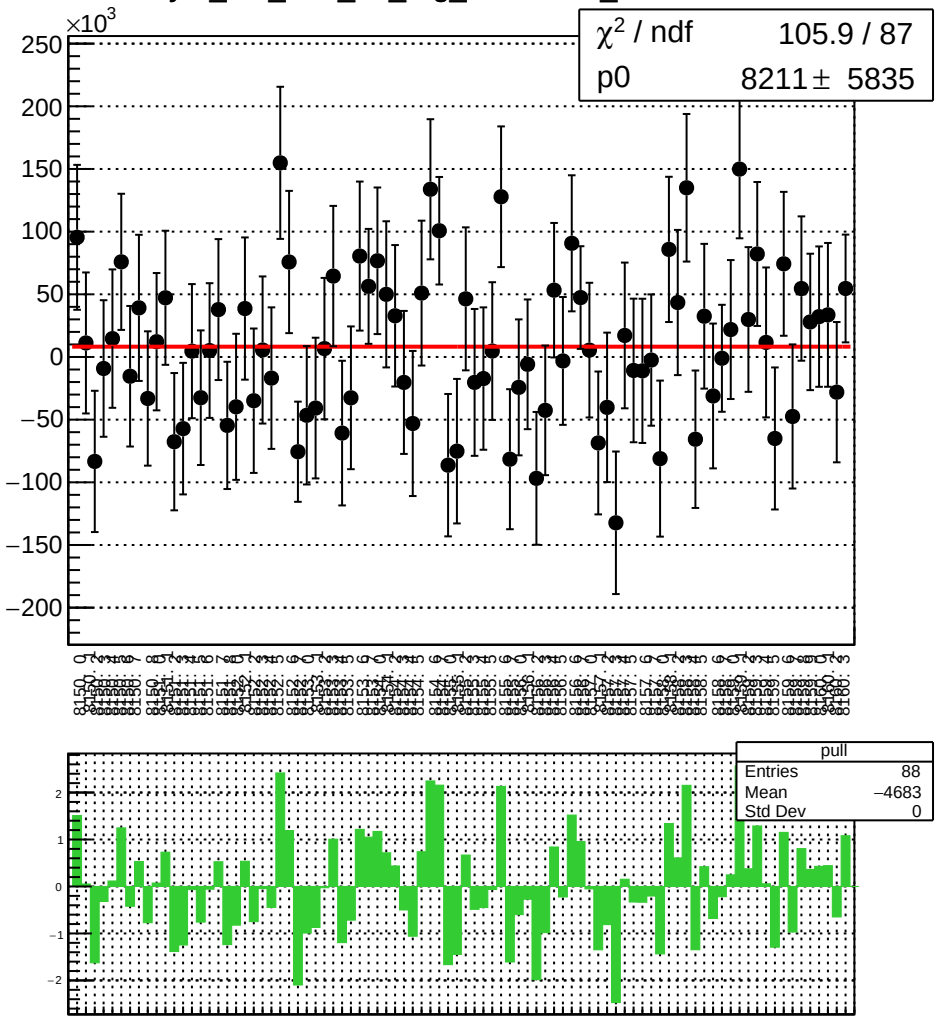

pull1D
Entries 88
Mean −0.04336
Std Dev 1.083

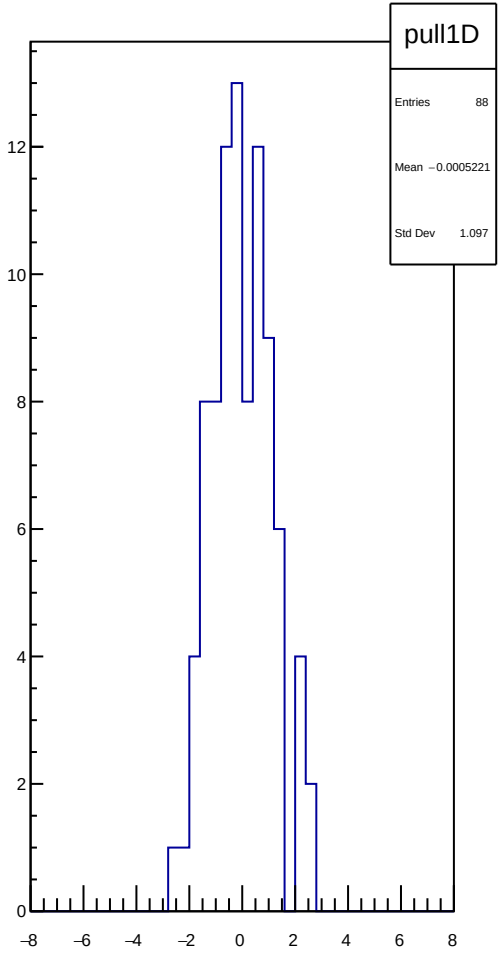

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.095e+05 / 87
p0 2.831e−10 ± 2.741e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

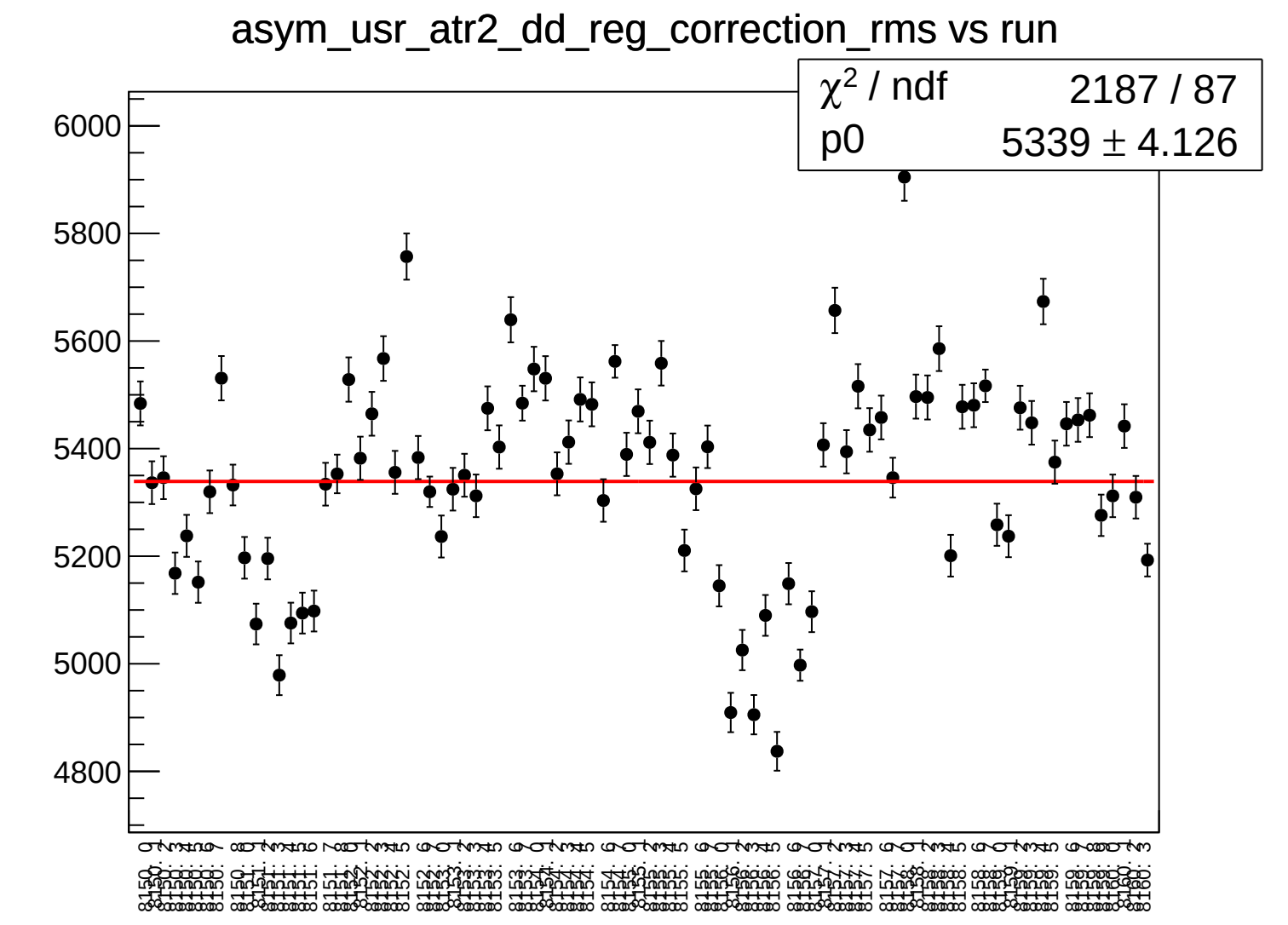

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 117.4 / 87
p0 −1812 ± 1522
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 27.26
Std Dev 57.42
3
2
1
0
−1
−2
−3

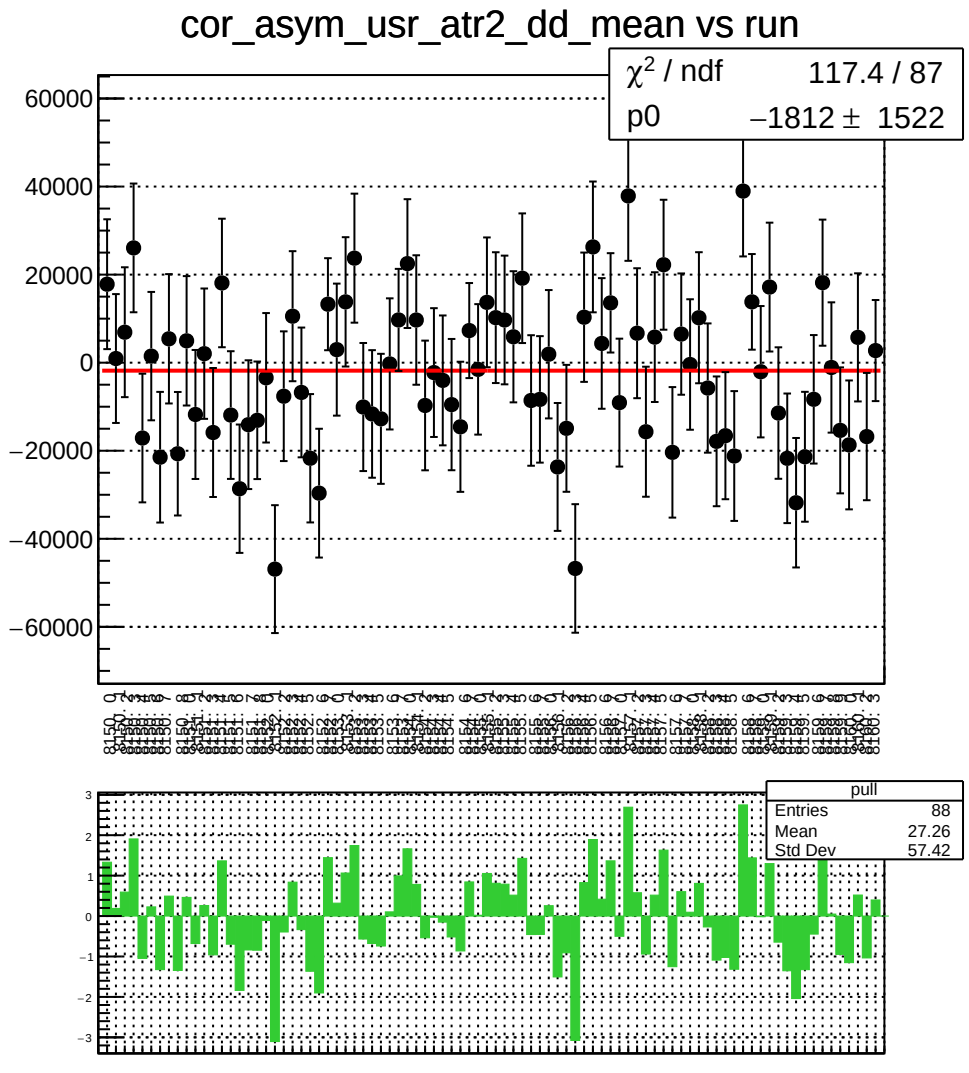

pull1D
Entries 88
Mean −0.02124
Std Dev 1.155
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

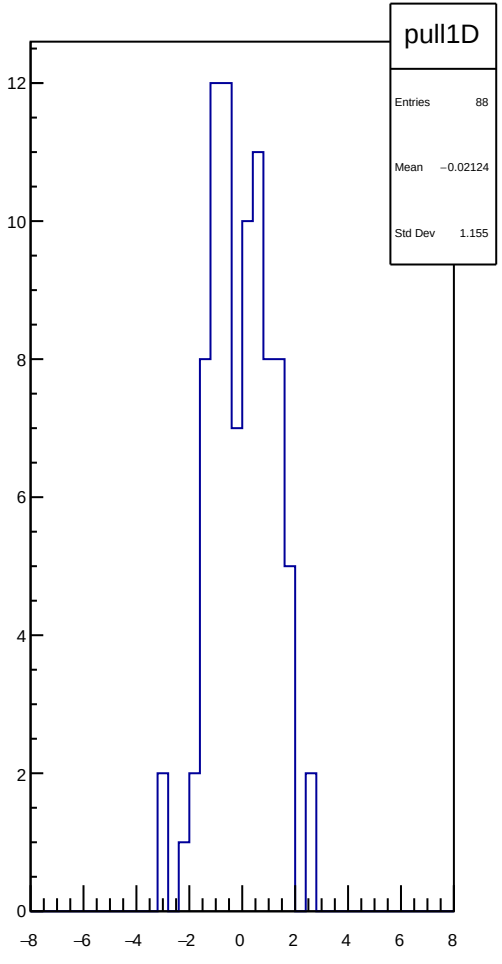

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 121.8 / 87
p0 1394 ± 1.077
1440
1420
1400
1380
1360

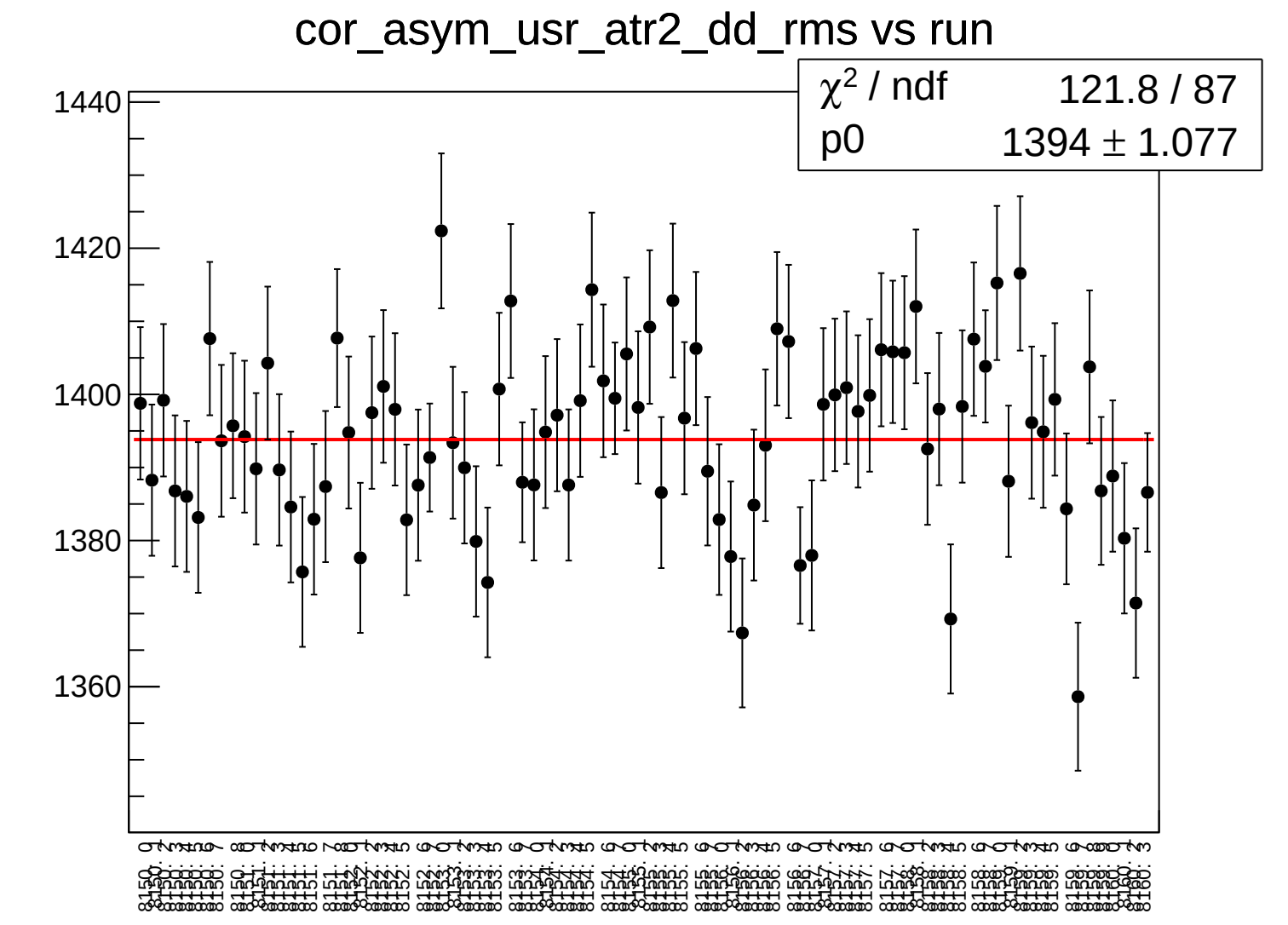

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 105.9 / 87
p0 8211 ± 5835
pull
Entries 88
Mean −4683
Std Dev 0

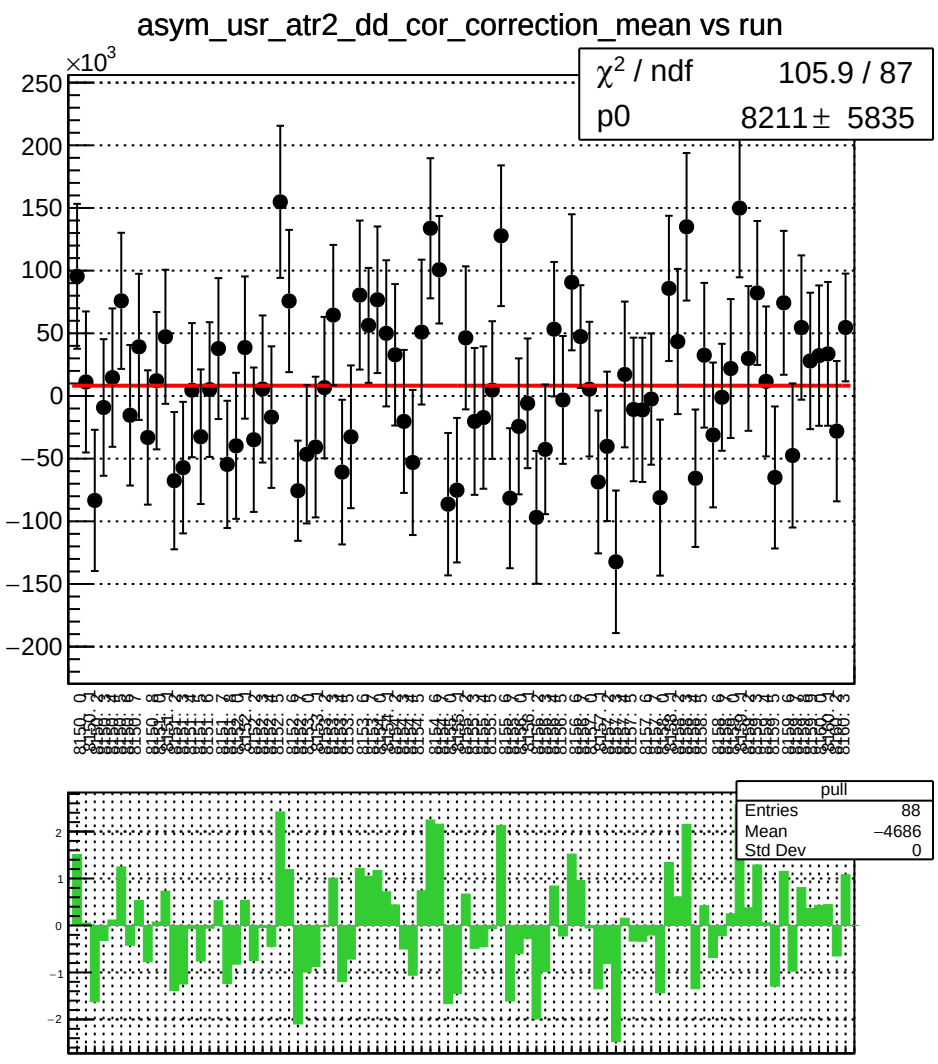

pull1D
Entries 88
Mean −0.0005221
Std Dev 1.097

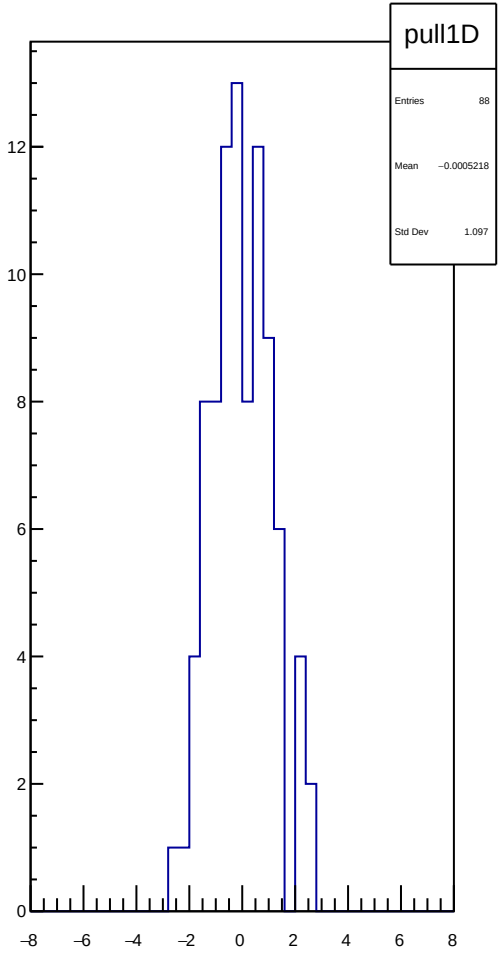

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 2187 / 87
p0 5339 ± 4.126
6000
5800
5600
5400
5200
5000
4800

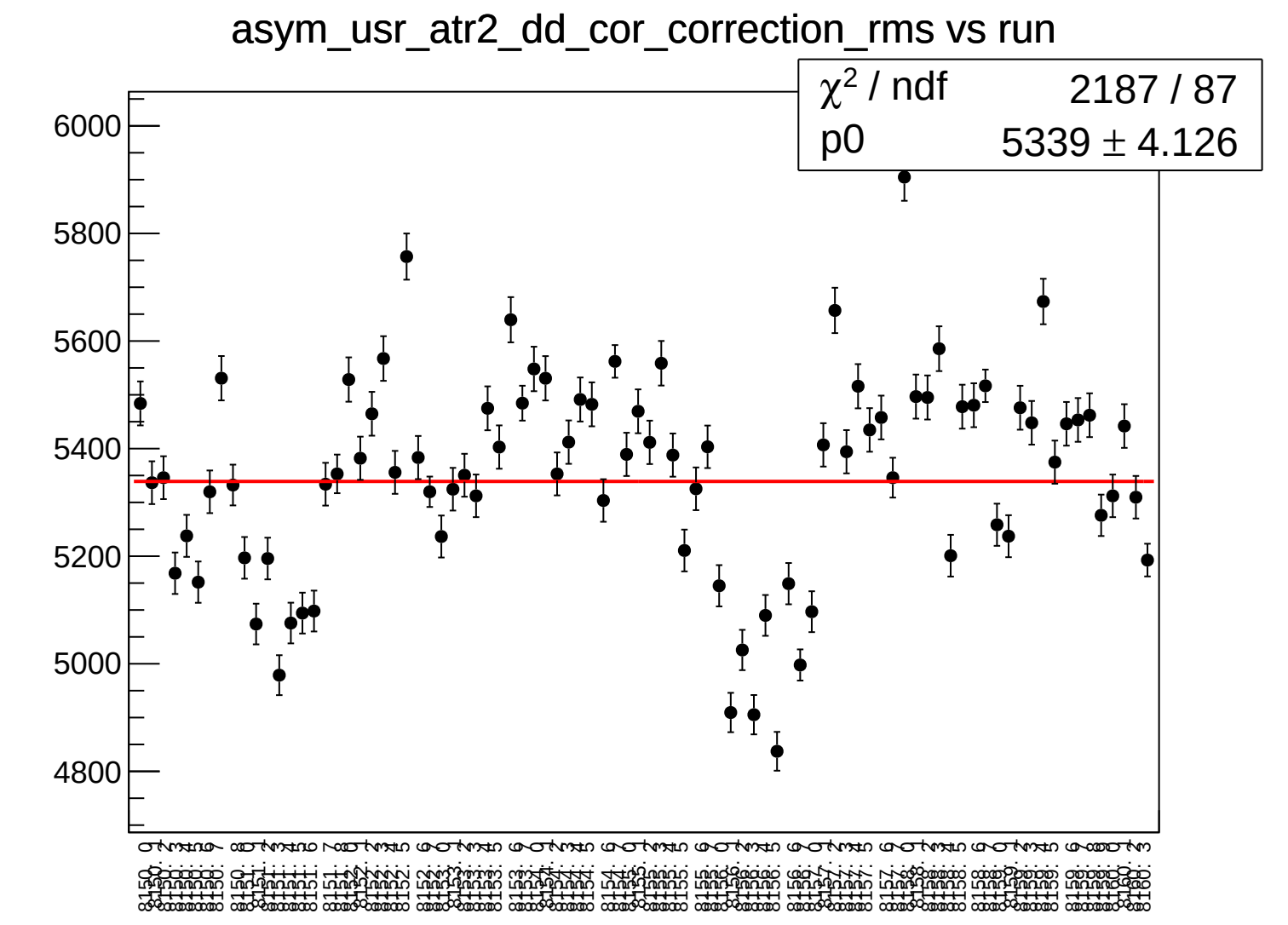

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 117.4 / 87
p0 −1812 ± 1522
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 27.26
Std Dev 57.42
3
2
1
0
−1
−2
−3

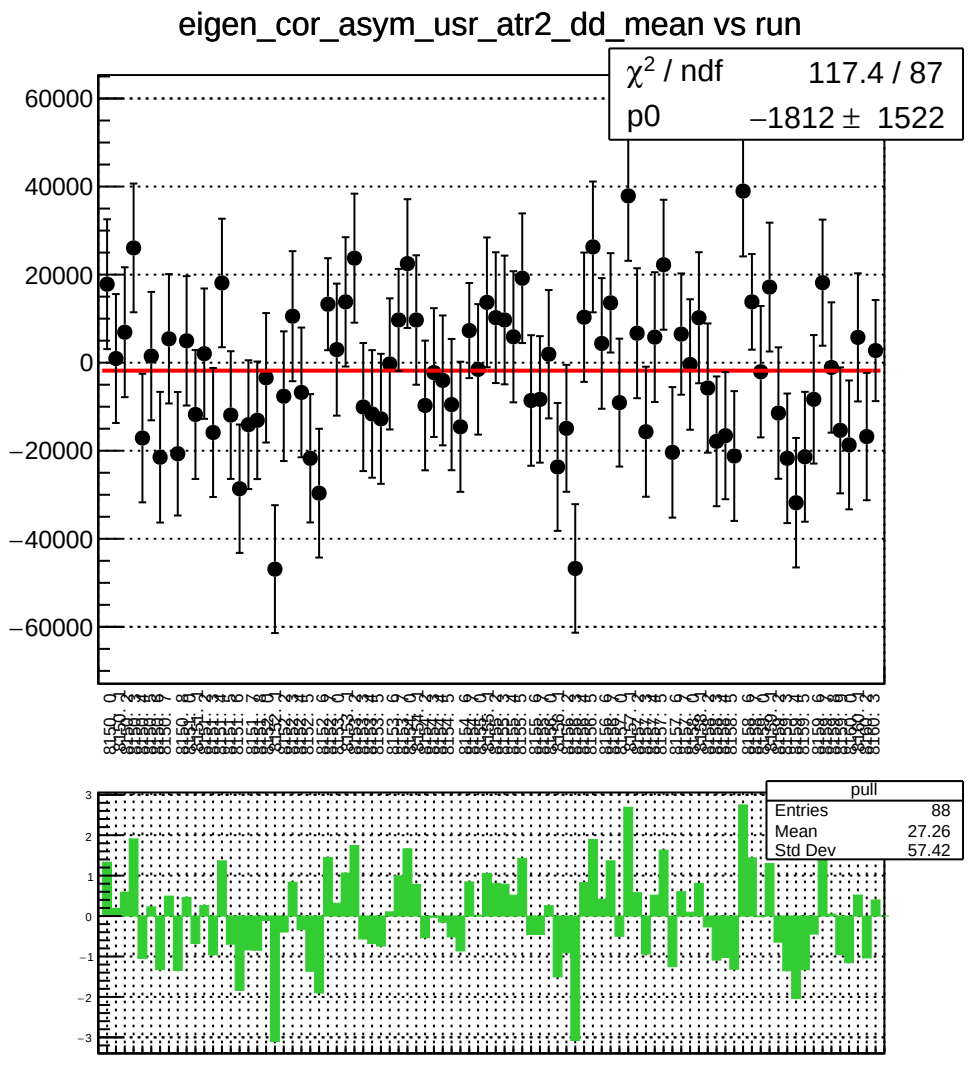

pull1D
Entries 88
Mean −0.02124
Std Dev 1.155
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

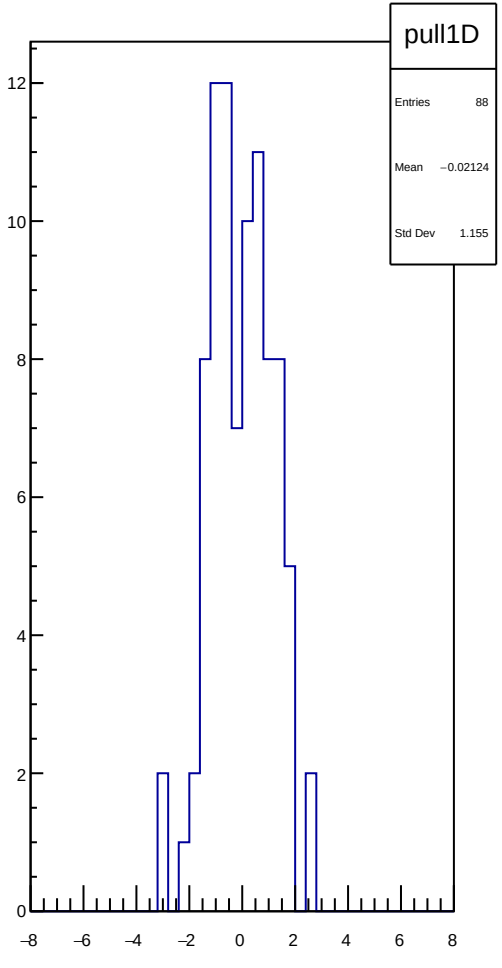

cor_asym_usr_atr2_dd_rms vs run
χ^2 / ndf 121.8 / 87
p0 1394 ± 1.077
1440
1420
1400
1380
1360

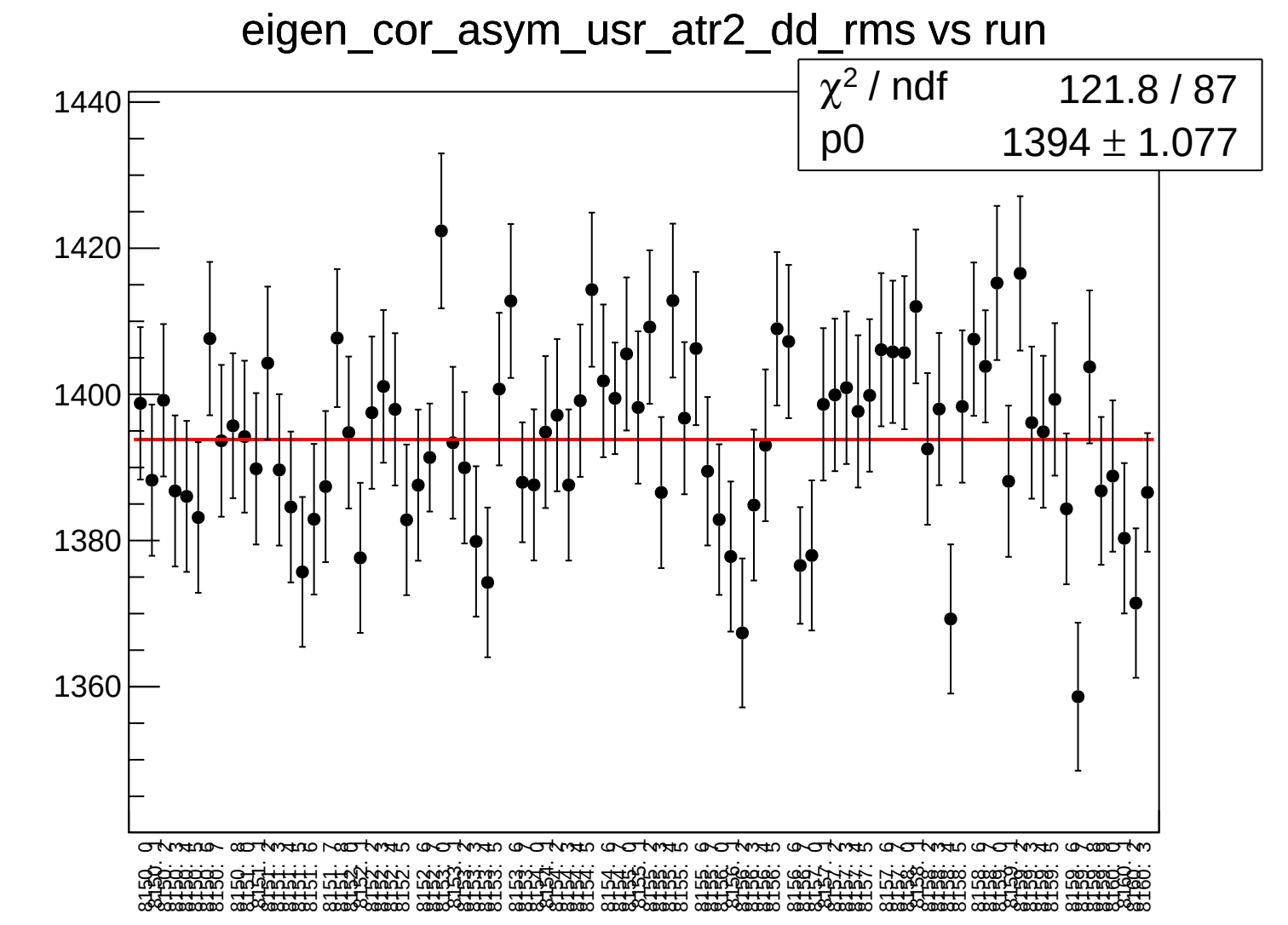

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 105.9 / 87
p0 8211 ± 5835
pull
Entries 88
Mean −4686
Std Dev 0

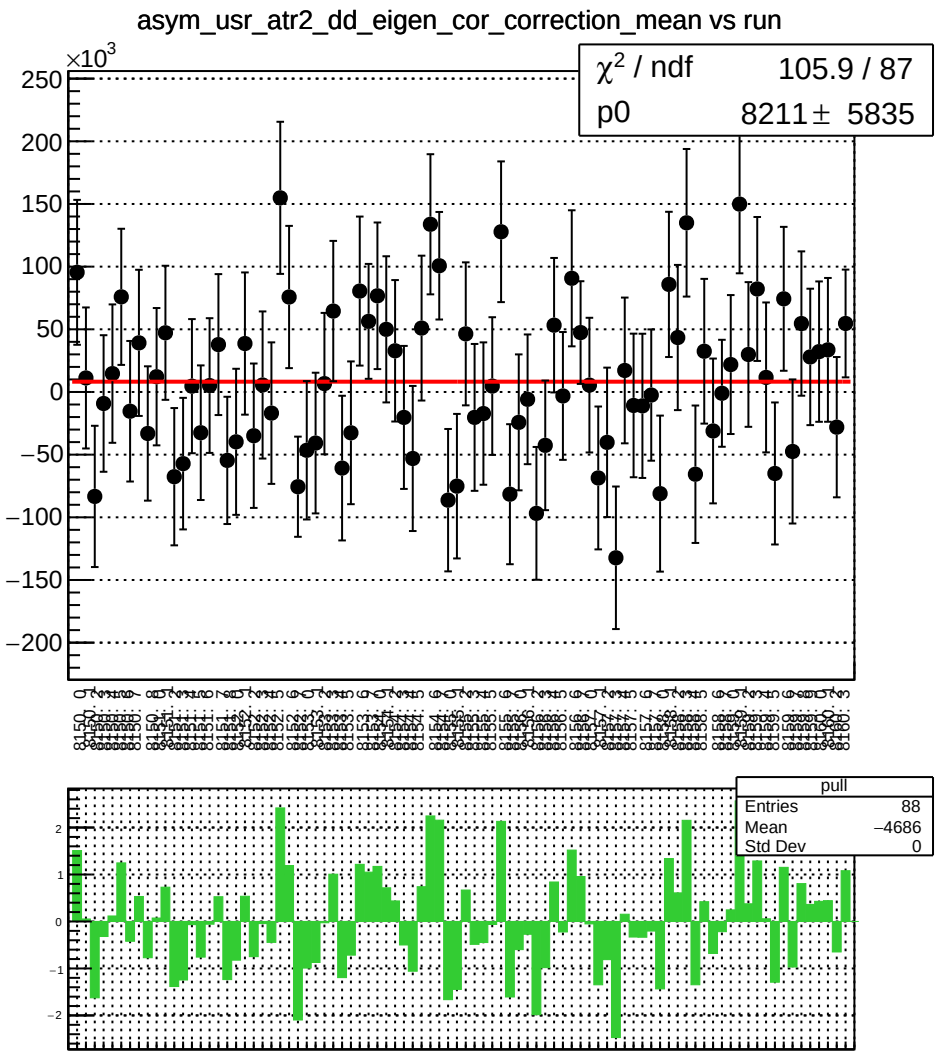

pull1D
Entries 88
Mean −0.0005218
Std Dev 1.097

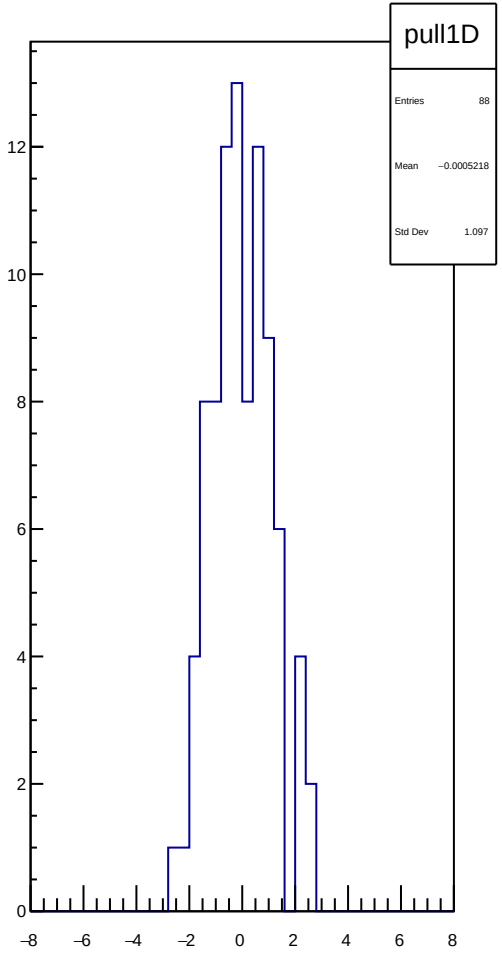

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 2187 / 87
p0 5339 ± 4.126
6000
5800
5600
5400
5200
5000
4800

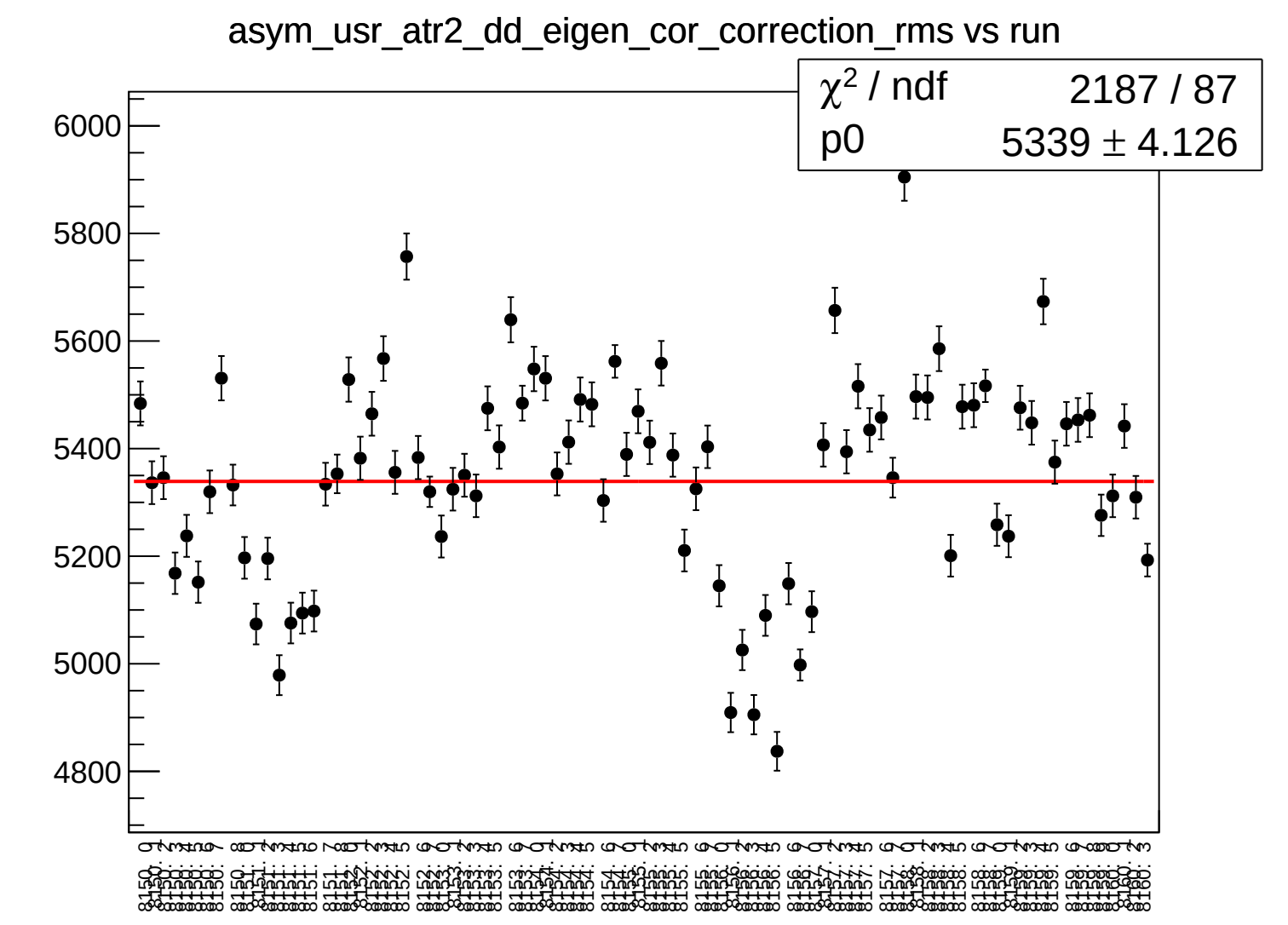

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 117.4 / 87
p0 −1812 ± 1522
pull
Entries 88
Mean 27.26
Std Dev 57.42

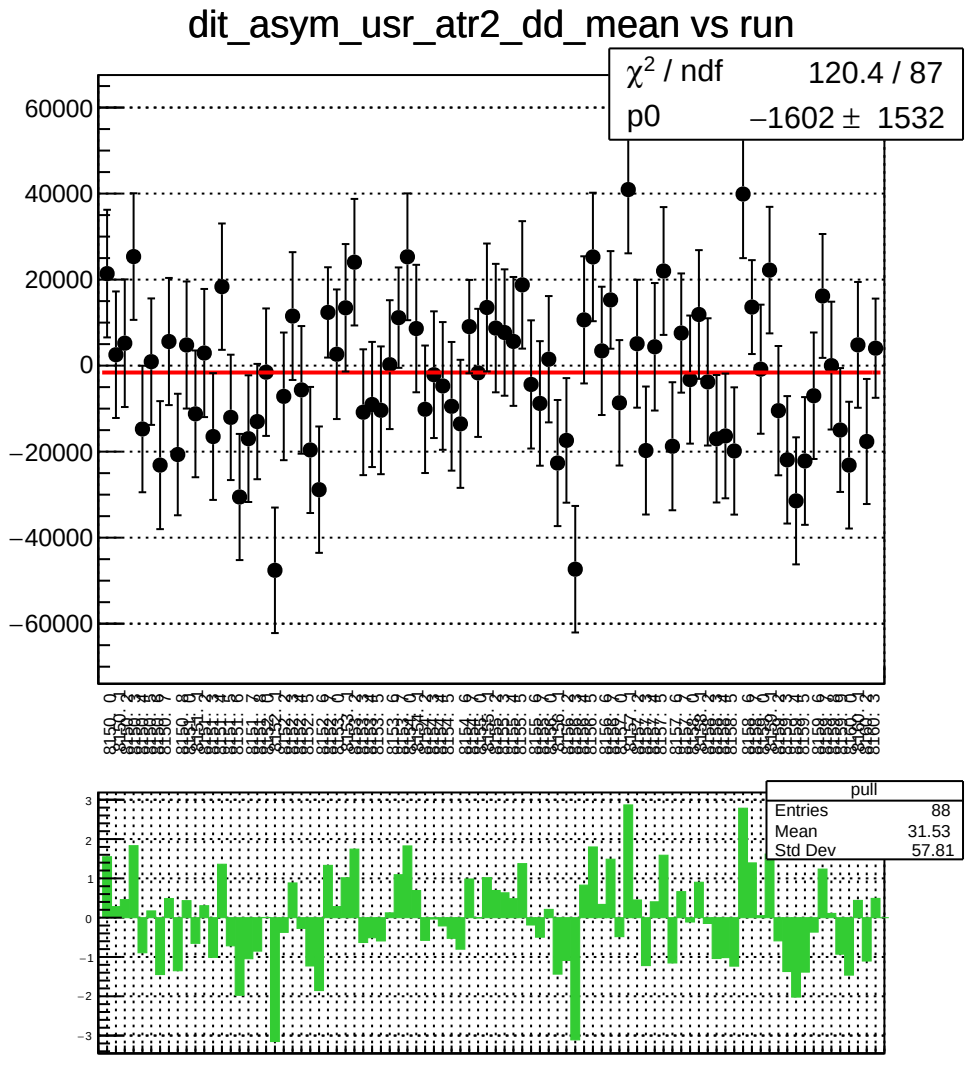

pull1D
Entries 88
Mean −0.02124
Std Dev 1.155

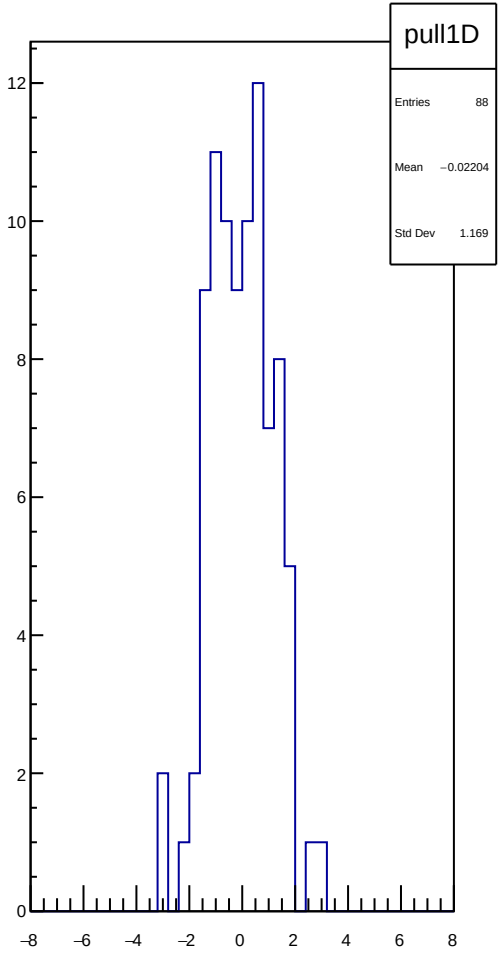

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 121.8 / 87
p0 1394 ± 1.077
1440
1420
1400
1380
1360

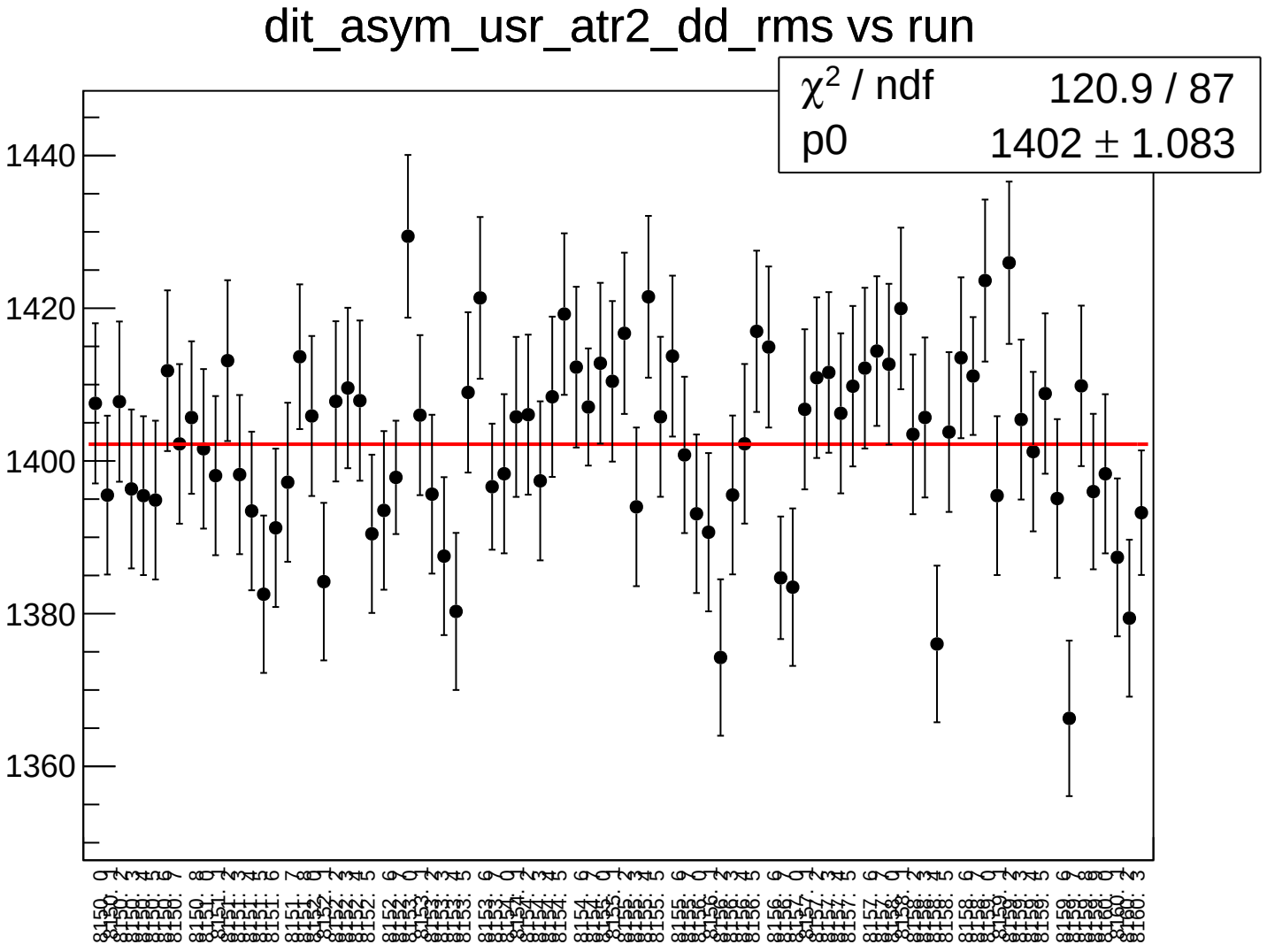

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 105.9 / 87
p0 8211 ± 5835
pull
Entries 88
Mean −4686
Std Dev 0

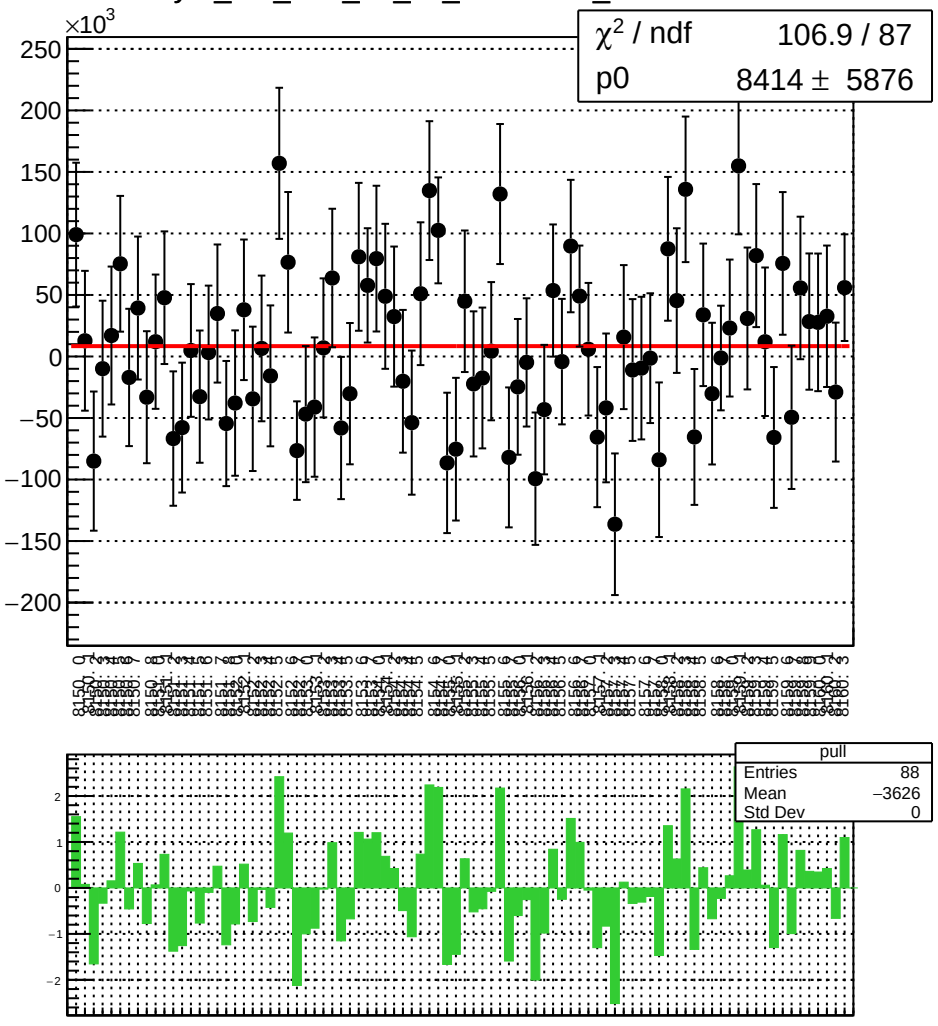

pull1D
Entries 88
Mean −0.0005218
Std Dev 1.097

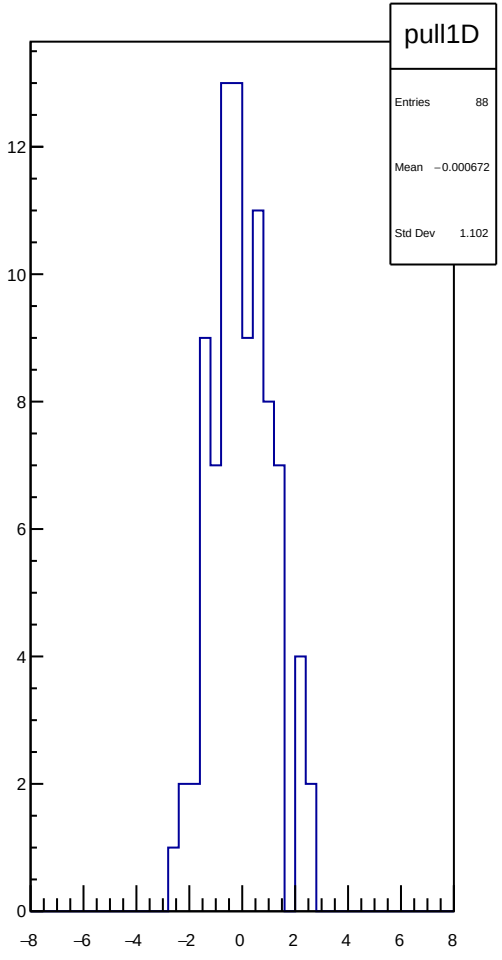

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2187 / 87
p0 5339 ± 4.126
6000
5800
5600
5400
5200
5000
4800

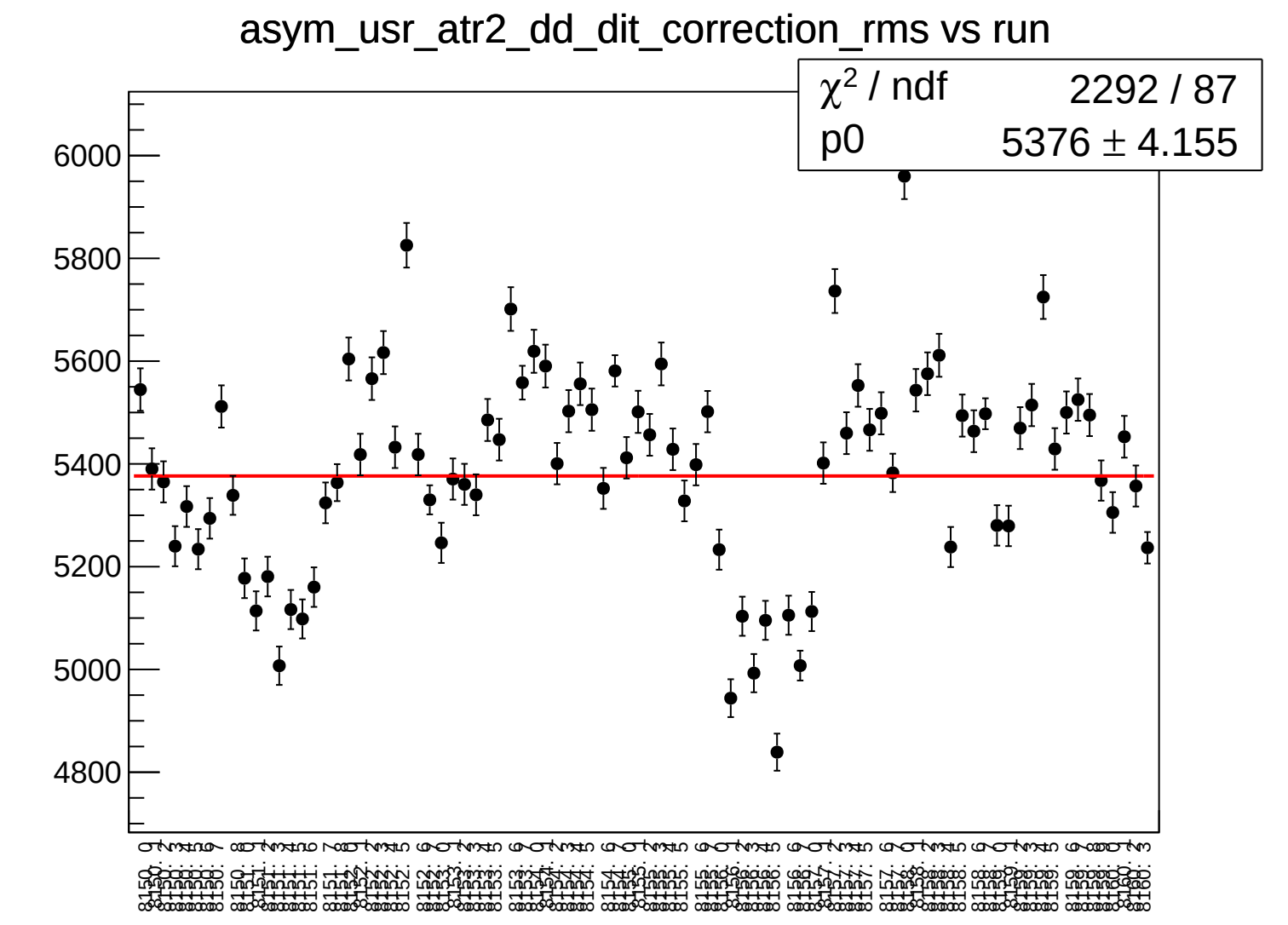

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 120.4 / 87
p0 −1602 ± 1532
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 31.53
Std Dev 57.81
3
2
1
0
−1
−2
−3

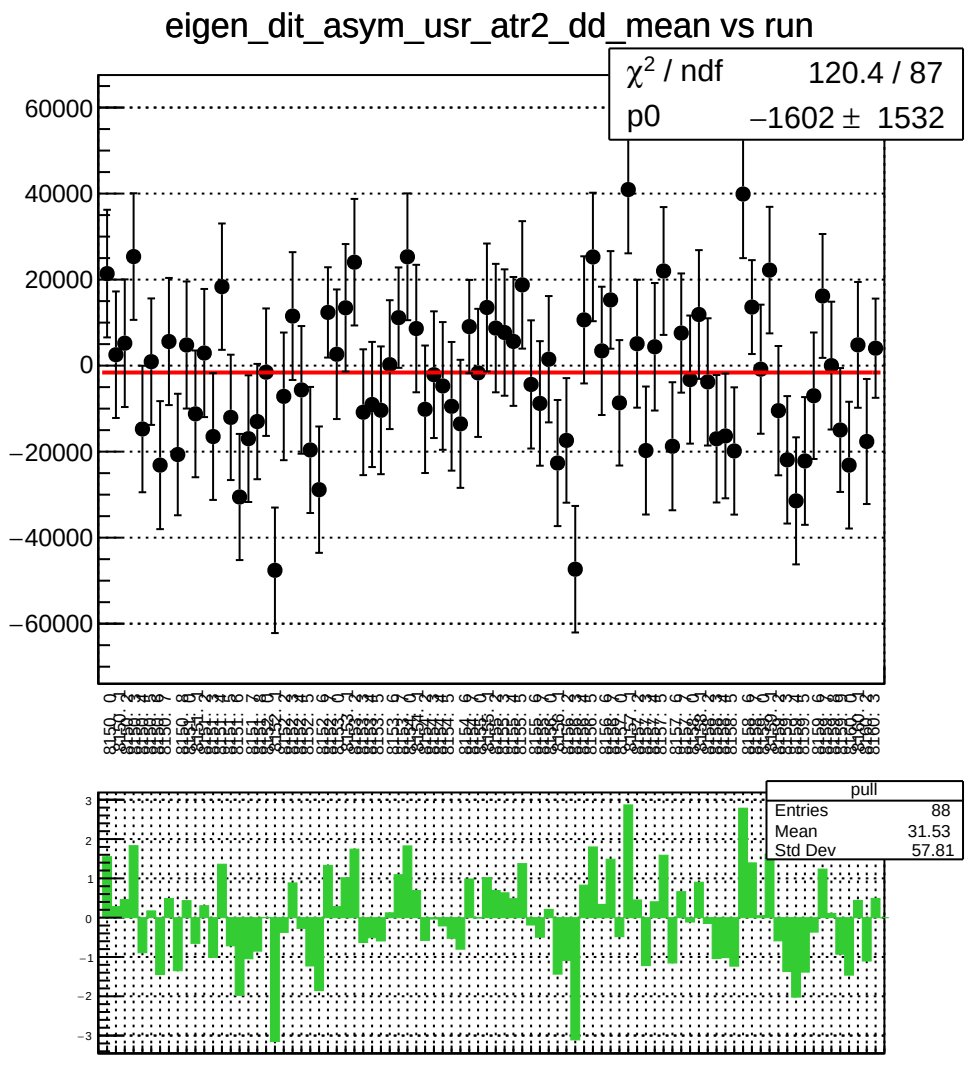

pull1D
Entries 88
Mean −0.02204
Std Dev 1.169
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

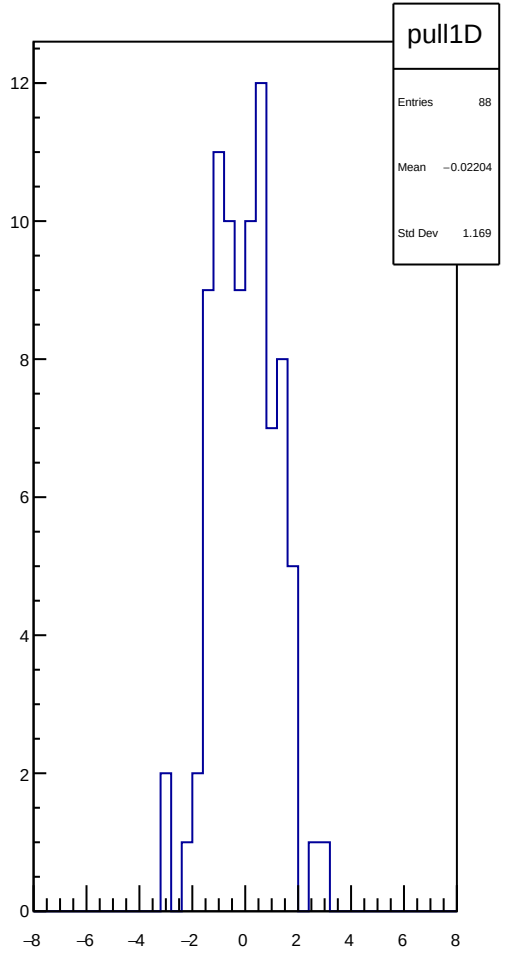

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 120.9 / 87
p0 1402 ± 1.083
1440
1420
1400
1380
1360

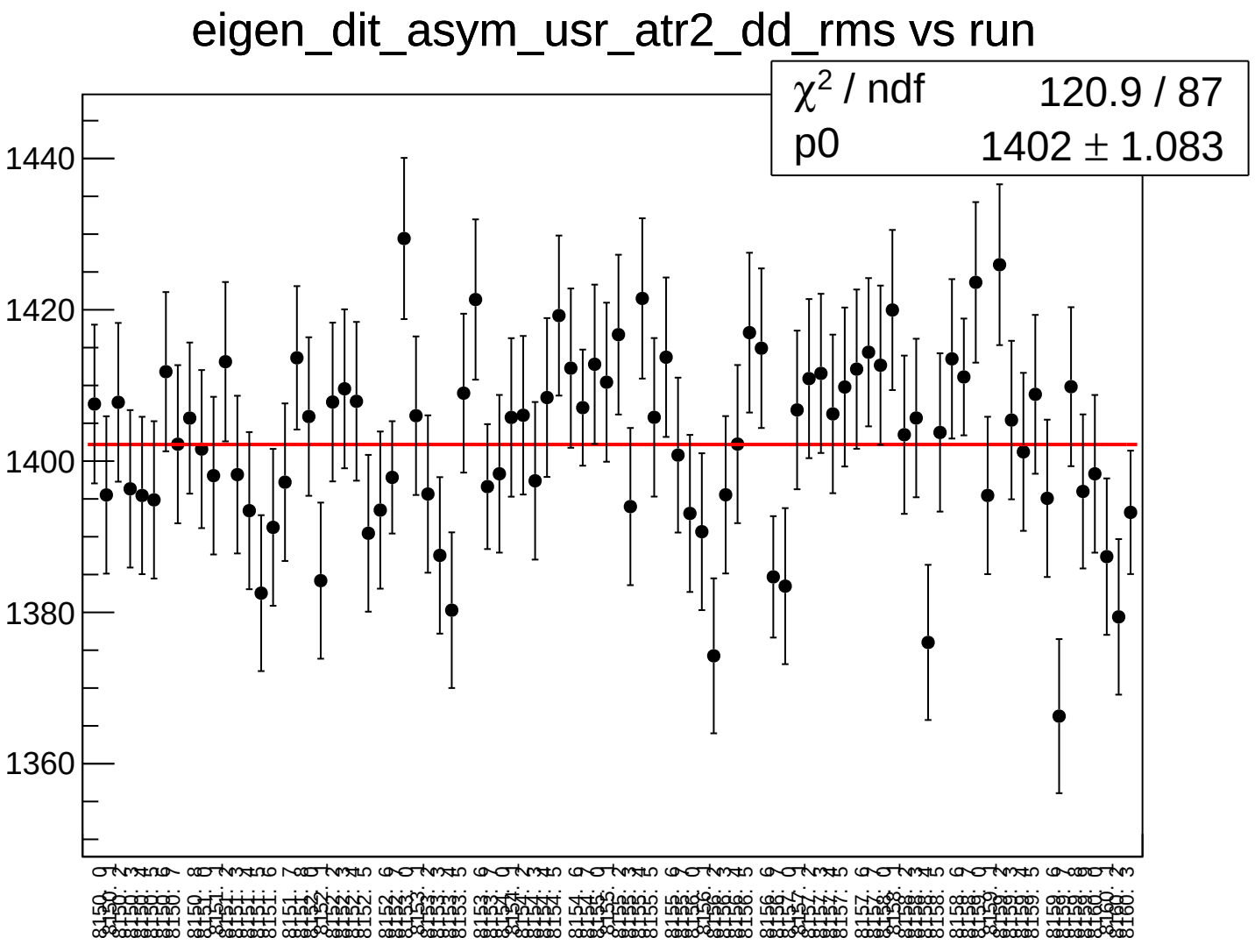

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 106.9 / 87
p0 8414 ± 5876
pull
Entries 88
Mean −3626
Std Dev 0

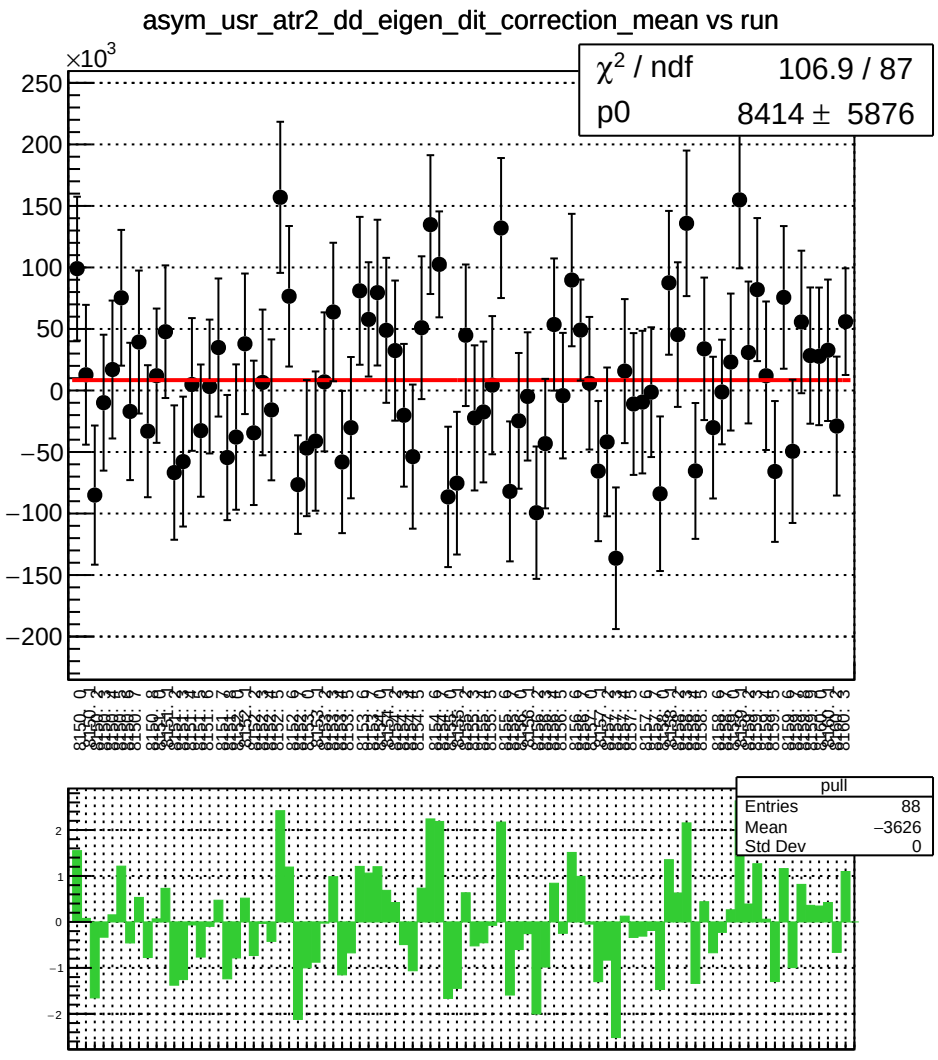

pull1D
Entries 88
Mean −0.000672
Std Dev 1.102

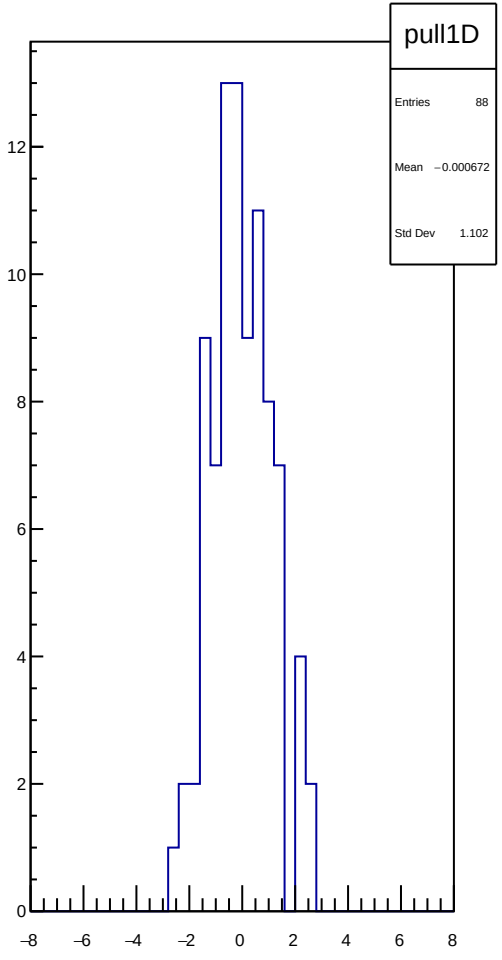

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 2292 / 87
p0 5376 ± 4.155
6000
5800
5600
5400
5200
5000
4800

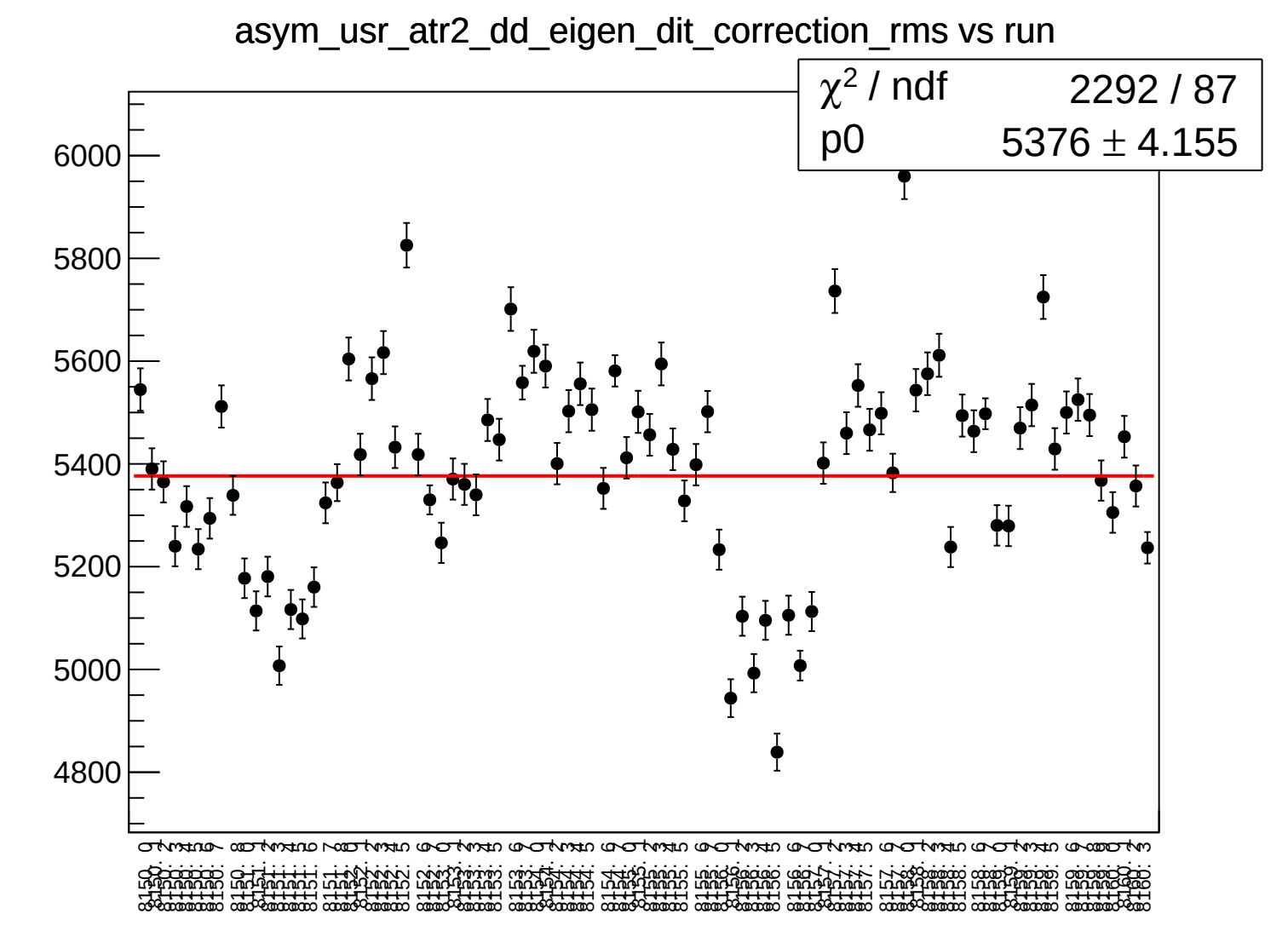

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 120.4 / 87
p0 −1602 ± 1532
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 31.53
Std Dev 57.81
3
2
1
0
−1
−2
−3

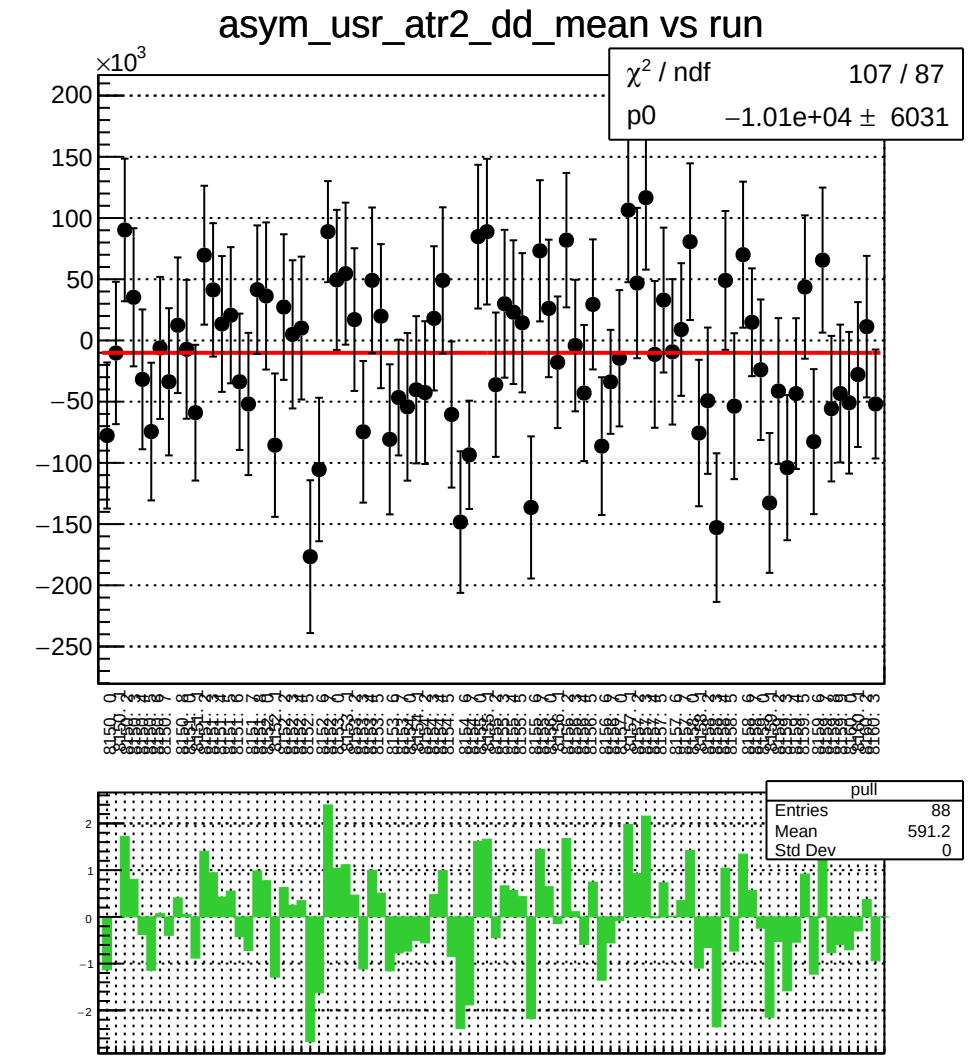

pull1D
Entries 88
Mean −0.02204
Std Dev 1.169
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

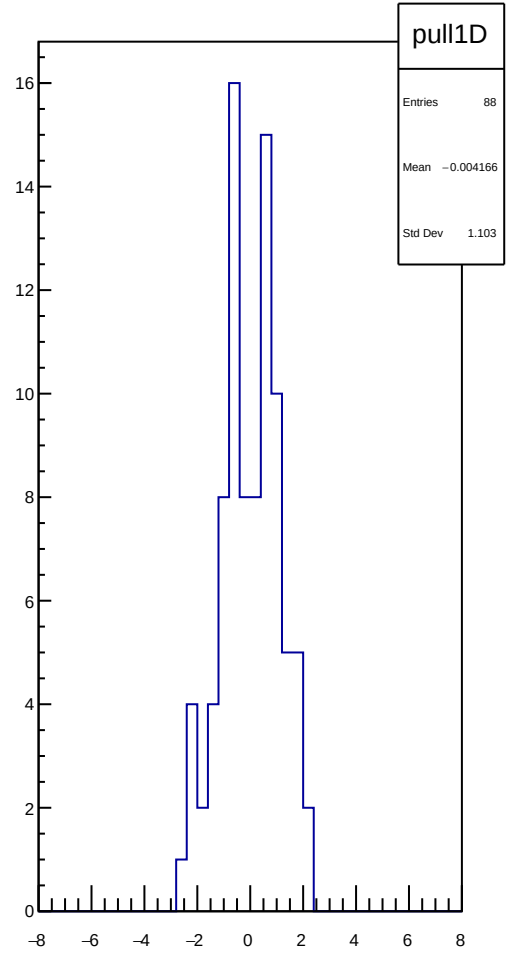

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 120.9 / 87
p0 1402 ± 1.083
1440
1420
1400
1380
1360

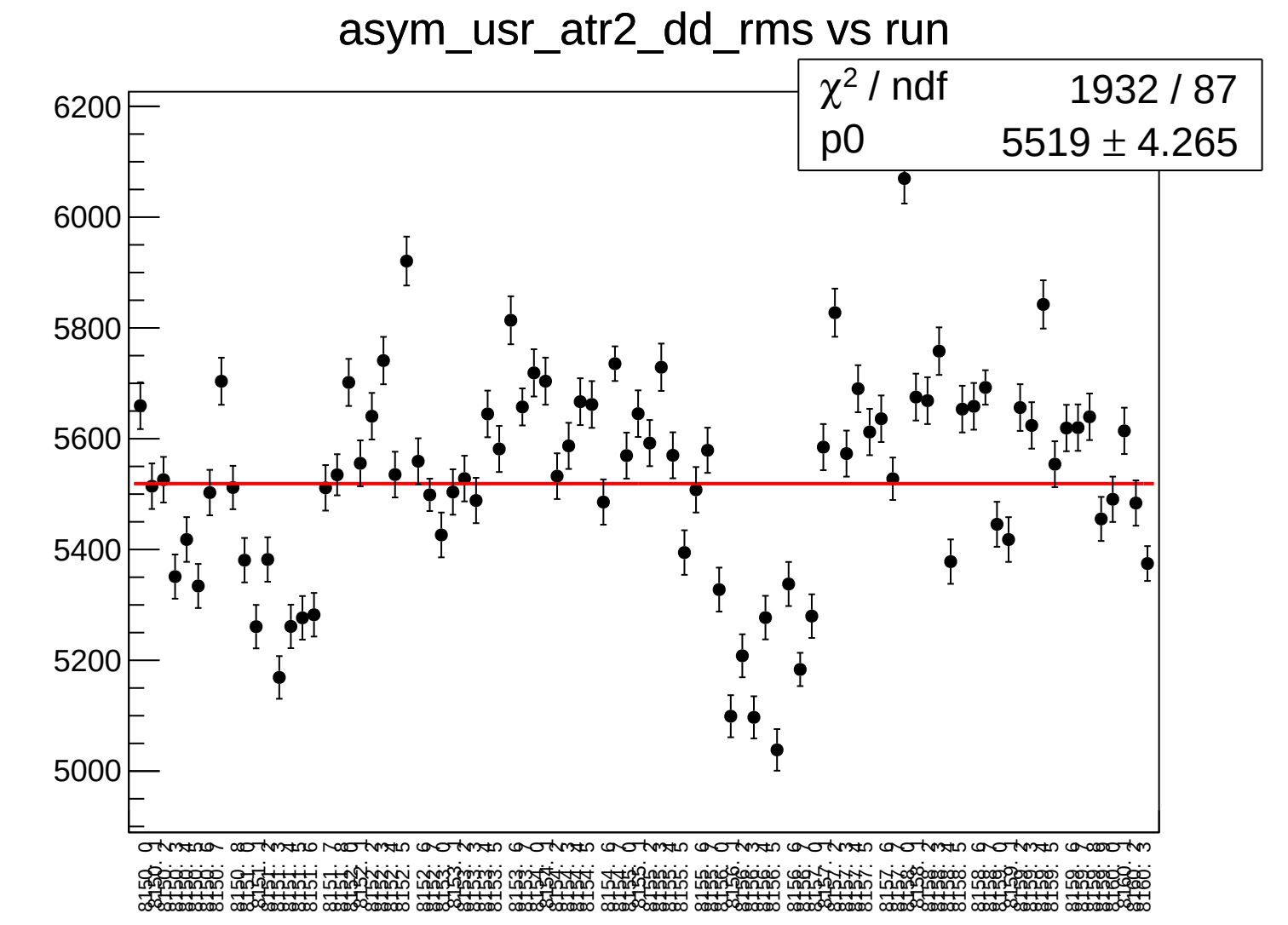

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 106.9 / 87
p0 8414 ± 5876
pull
Entries 88
Mean −3626
Std Dev 0

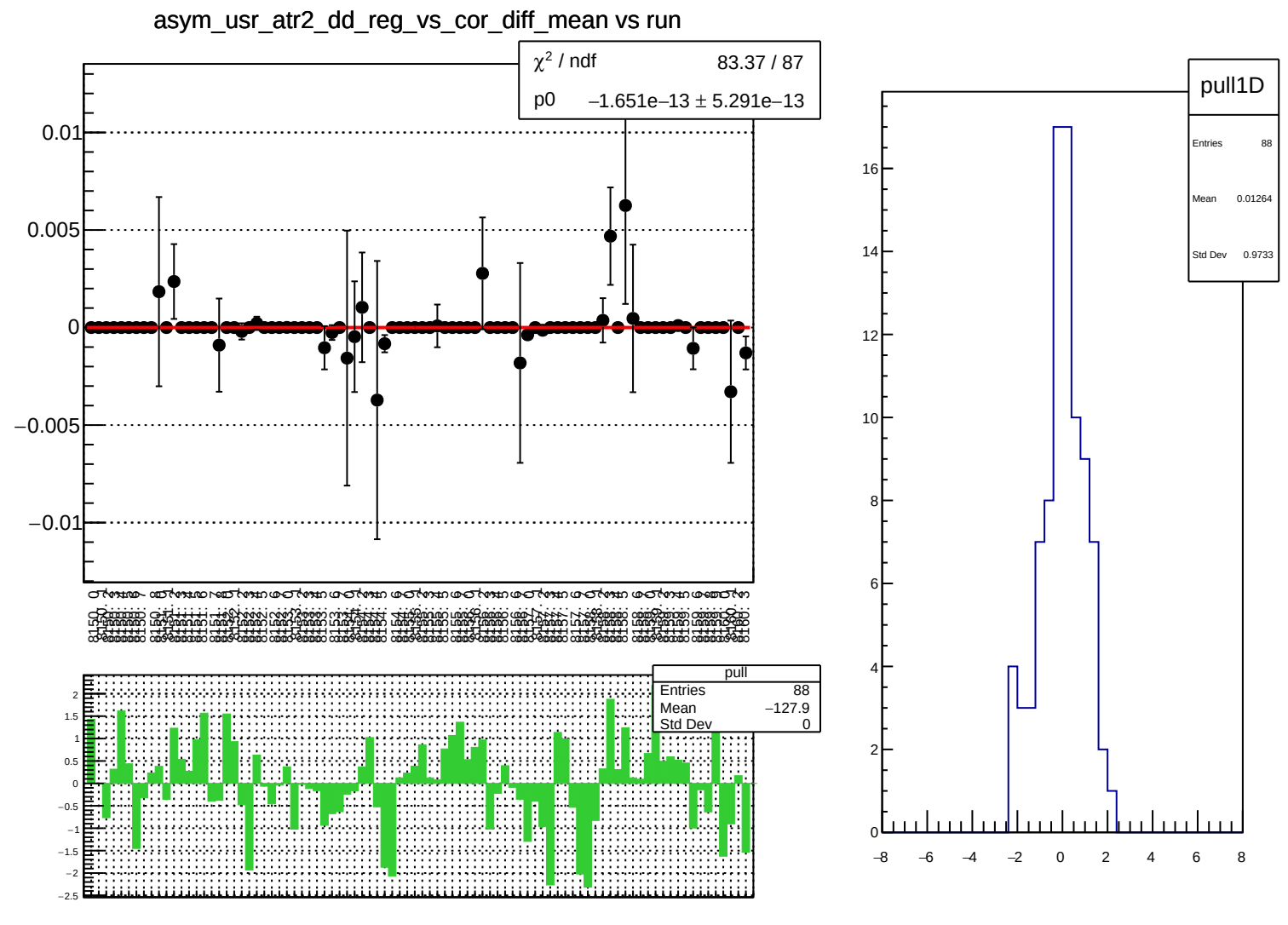

pull1D
Entries 88
Mean −0.000672
Std Dev 1.102

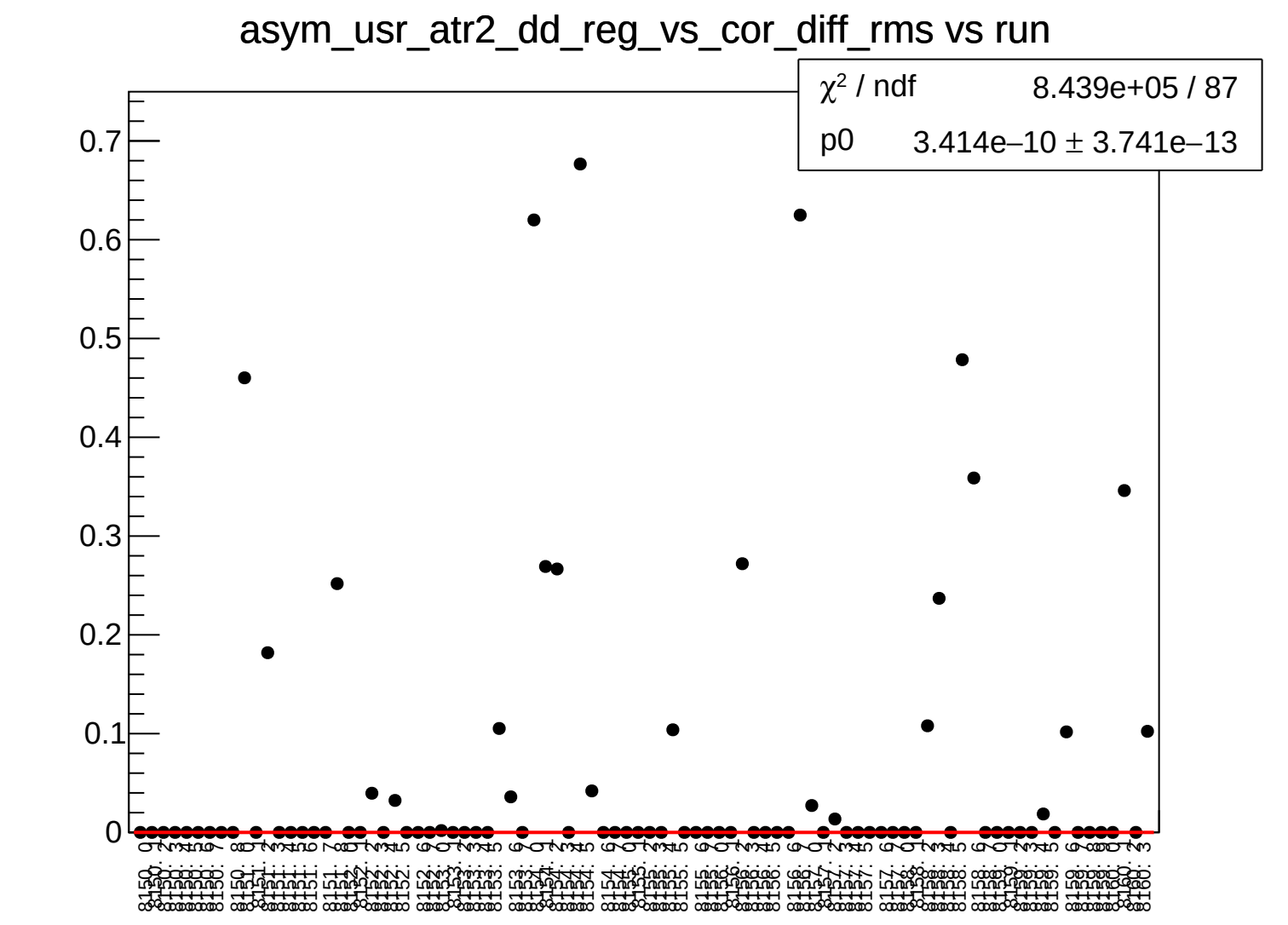

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2292 / 87
p0 5376 ± 4.155
6000
5800
5600
5400
5200
5000
4800

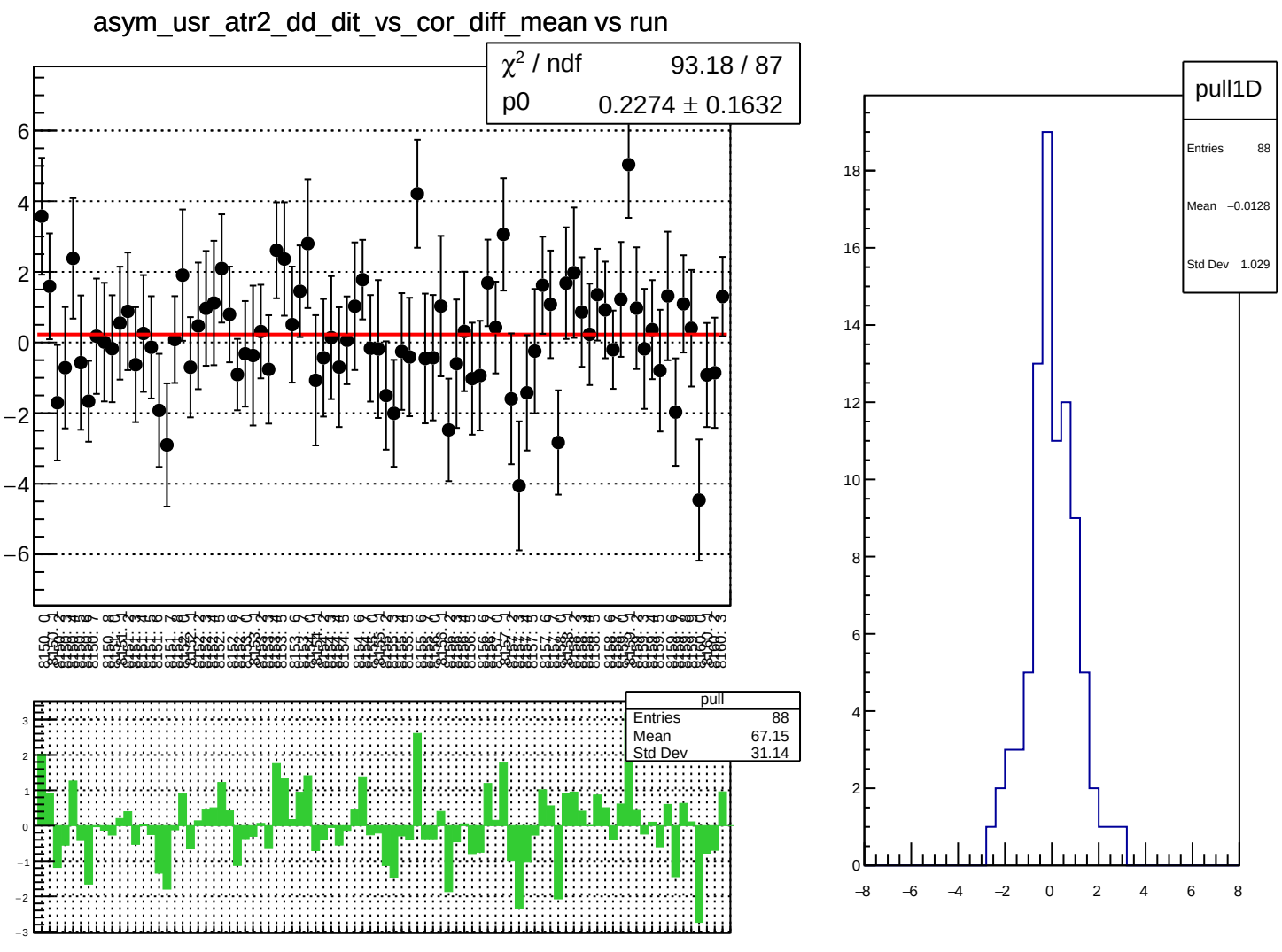

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 107 / 87
p0 −1.01e+04 ± 6031
pull
Entries 88
Mean 591.2
Std Dev 0

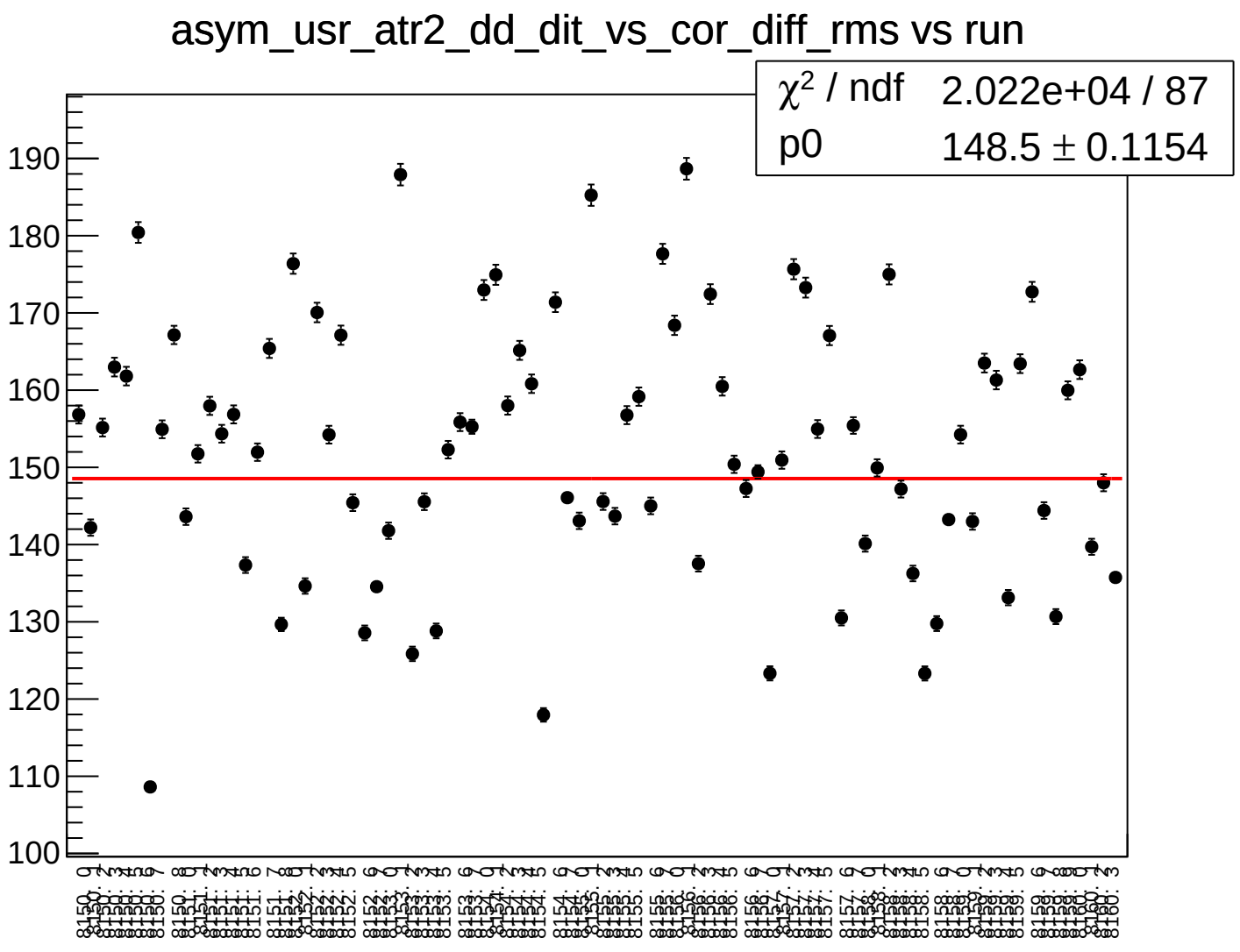

pull1D
Entries 88
Mean −0.004166
Std Dev 1.103

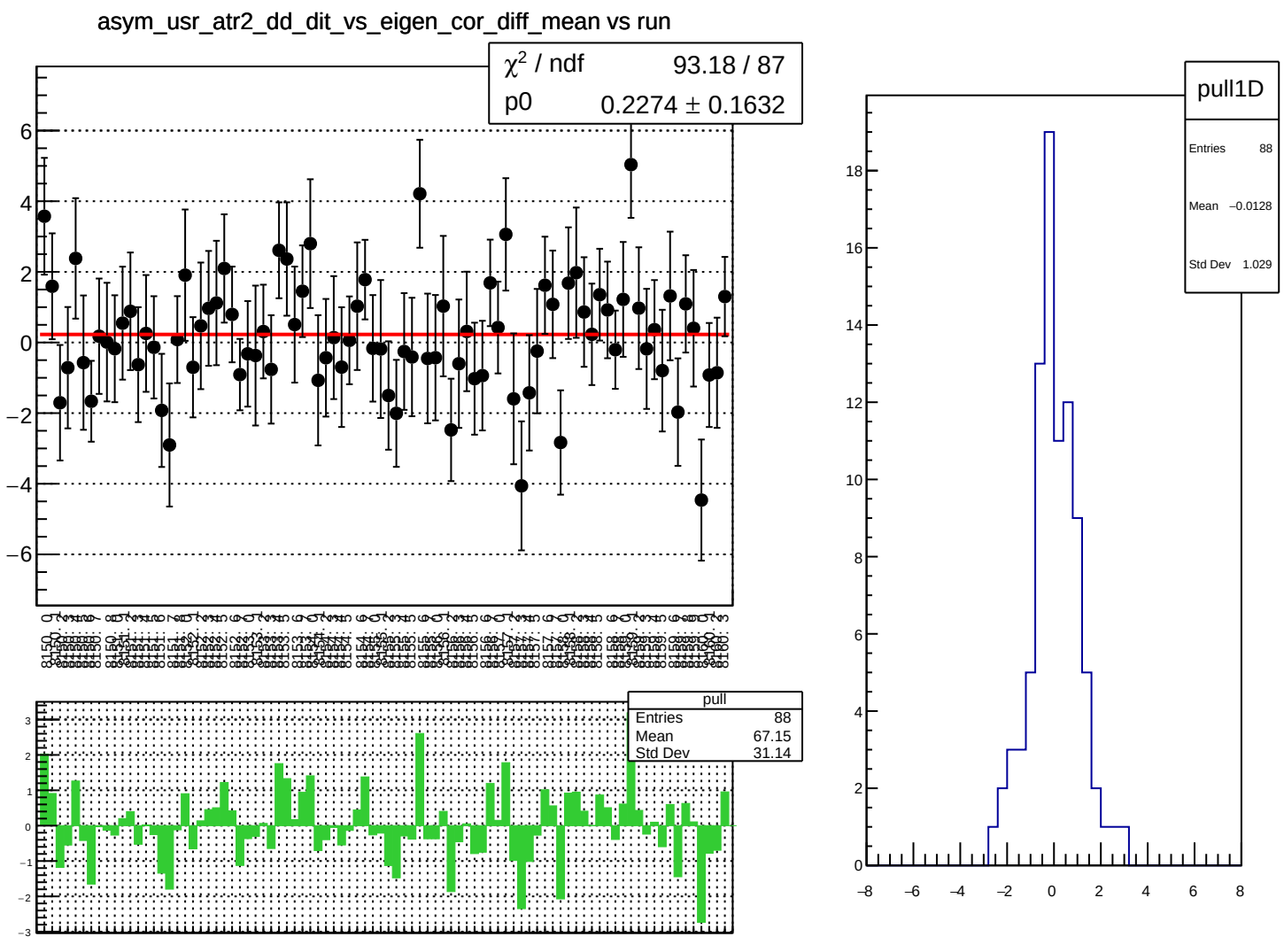

asym_usr_atr2_dd_rms vs run
χ² / ndf 1932 / 87
p0 5519 ± 4.265
6200
6000
5800
5600
5400
5200
5000

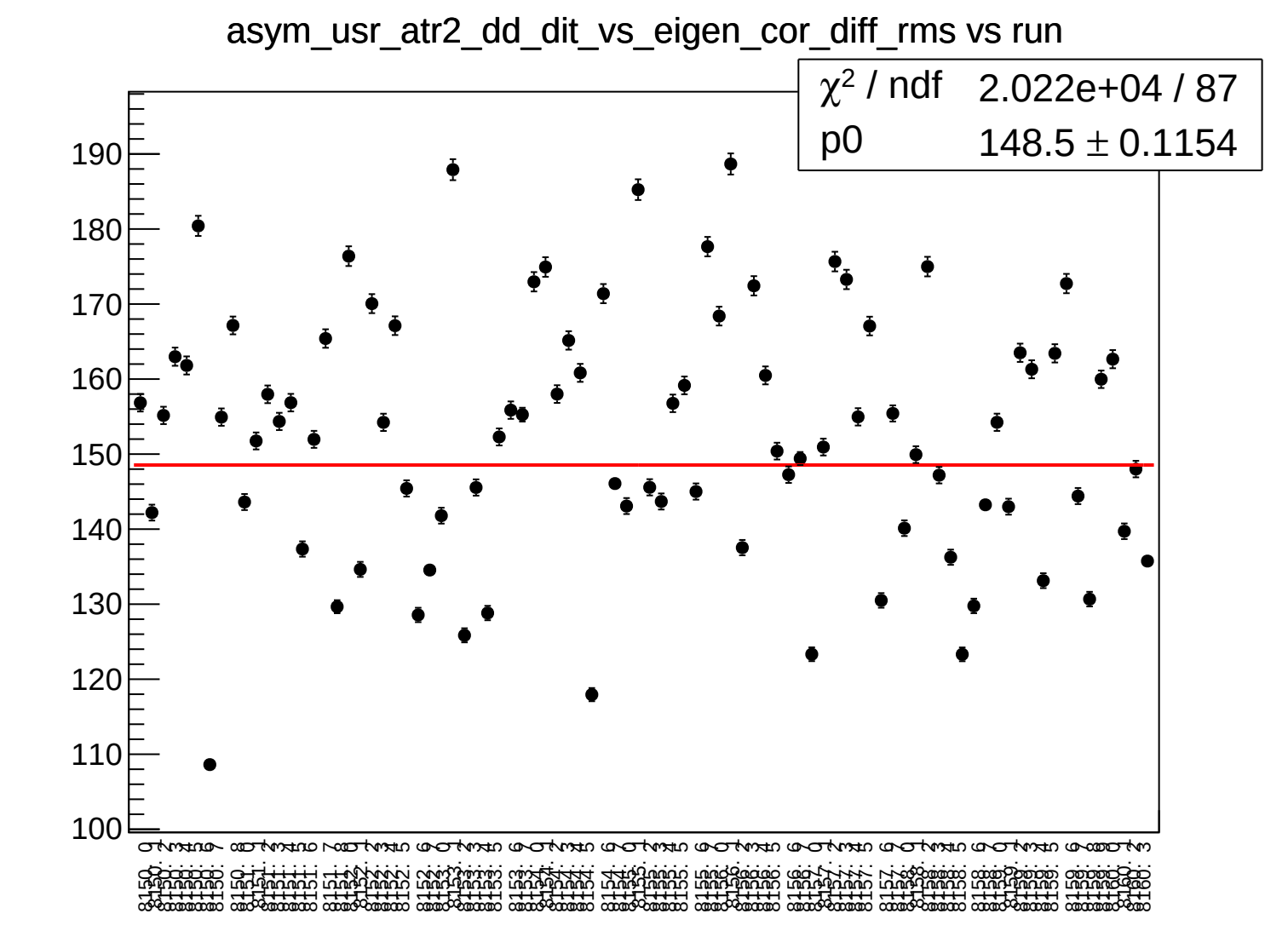

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.37 / 87
p0 −1.651e−13 ± 5.291e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean −127.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean 0.01264
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

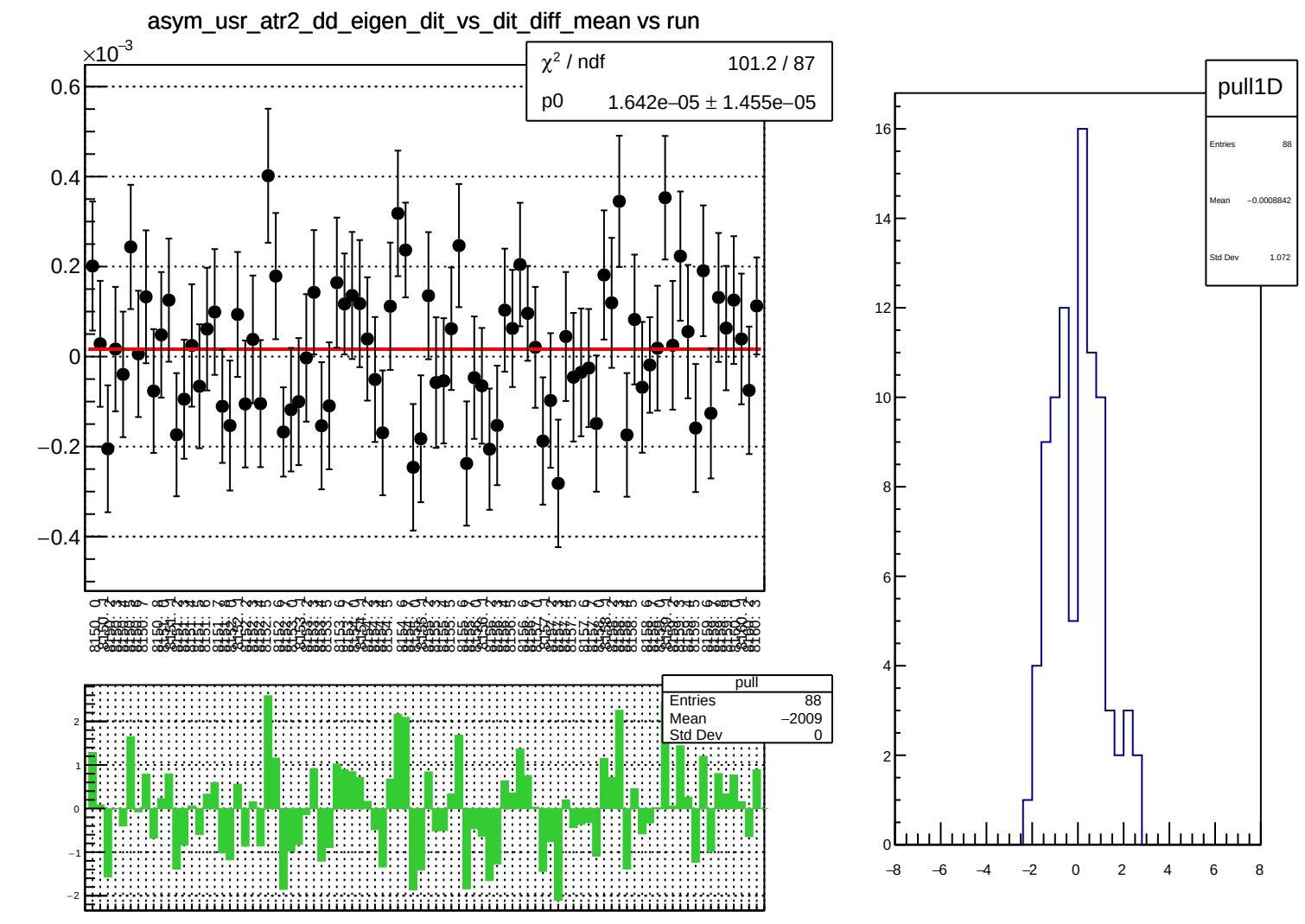

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.439e+05 / 87
p0 3.414e−10 ± 3.741e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

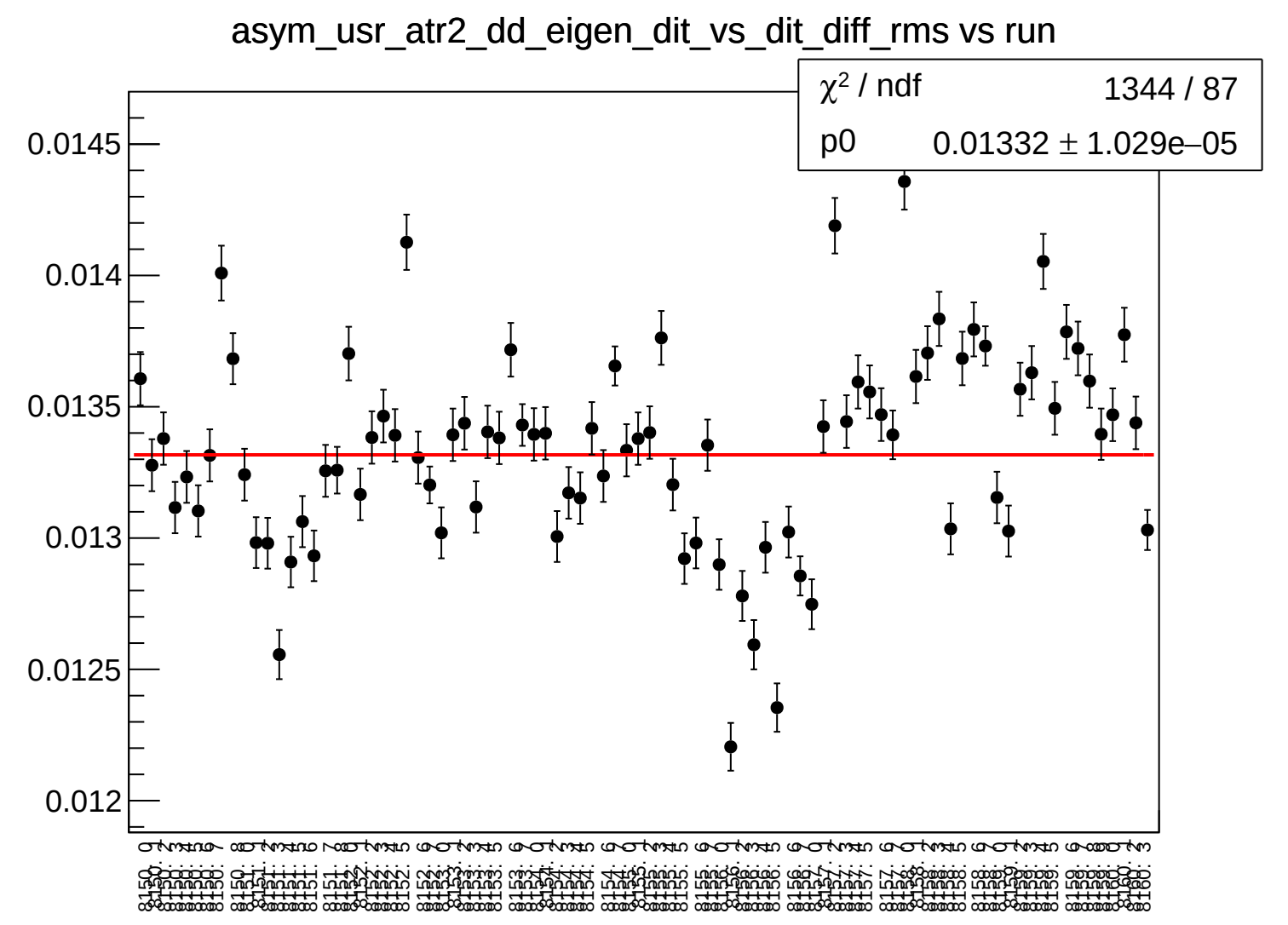

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.18 / 87
p0 0.2274 ± 0.1632
pull
Entries 88
Mean 67.15
Std Dev 31.14
pull1D
Entries 88
Mean −0.0128
Std Dev 1.029

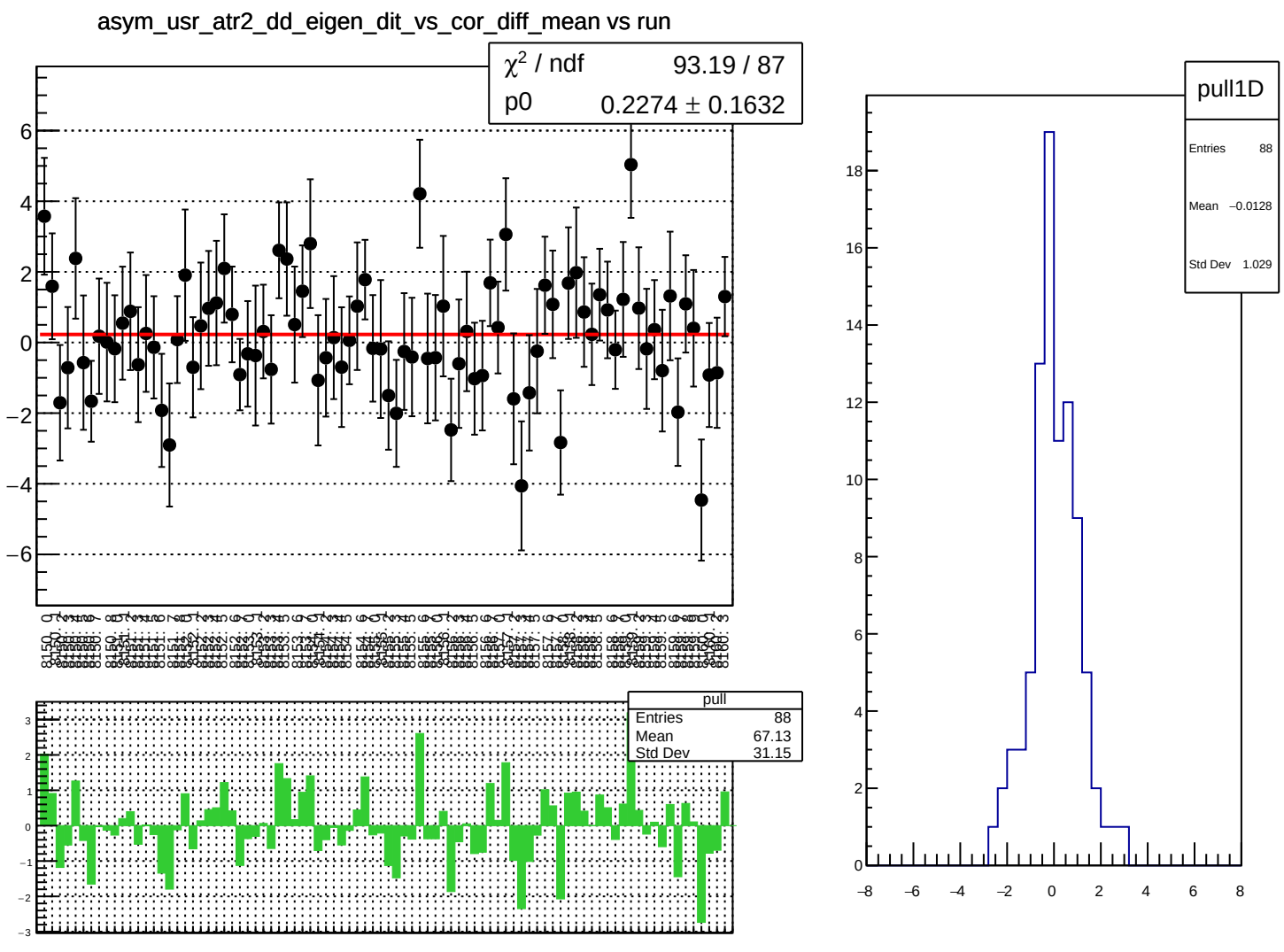

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.022e+04 / 87
p0 148.5 ± 0.1154
190
180
170
160
150
140
130
120
110
100

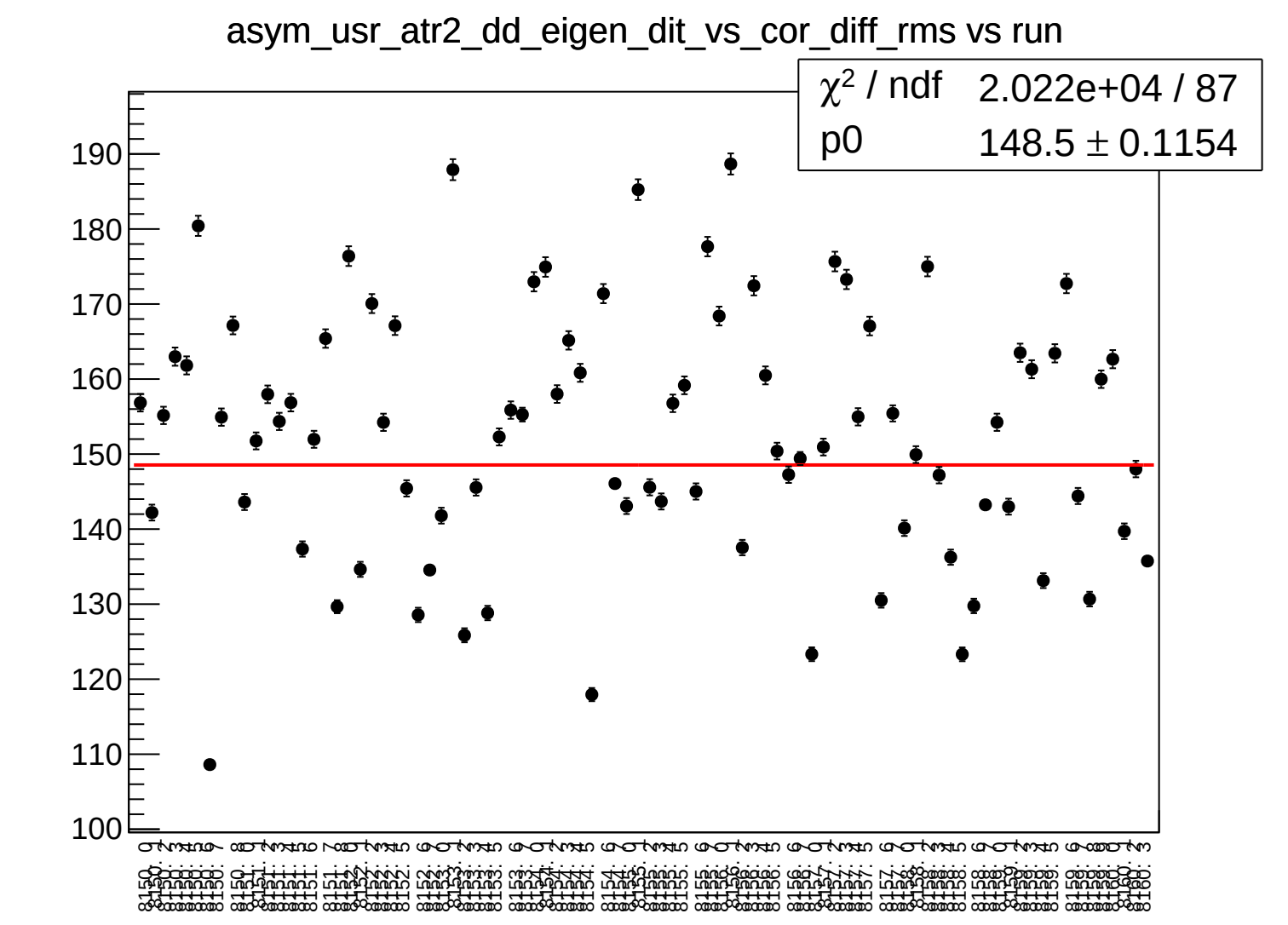

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.18 / 87
p0 0.2274 ± 0.1632
pull
Entries 88
Mean 67.15
Std Dev 31.14
pull1D
Entries 88
Mean −0.0128
Std Dev 1.029

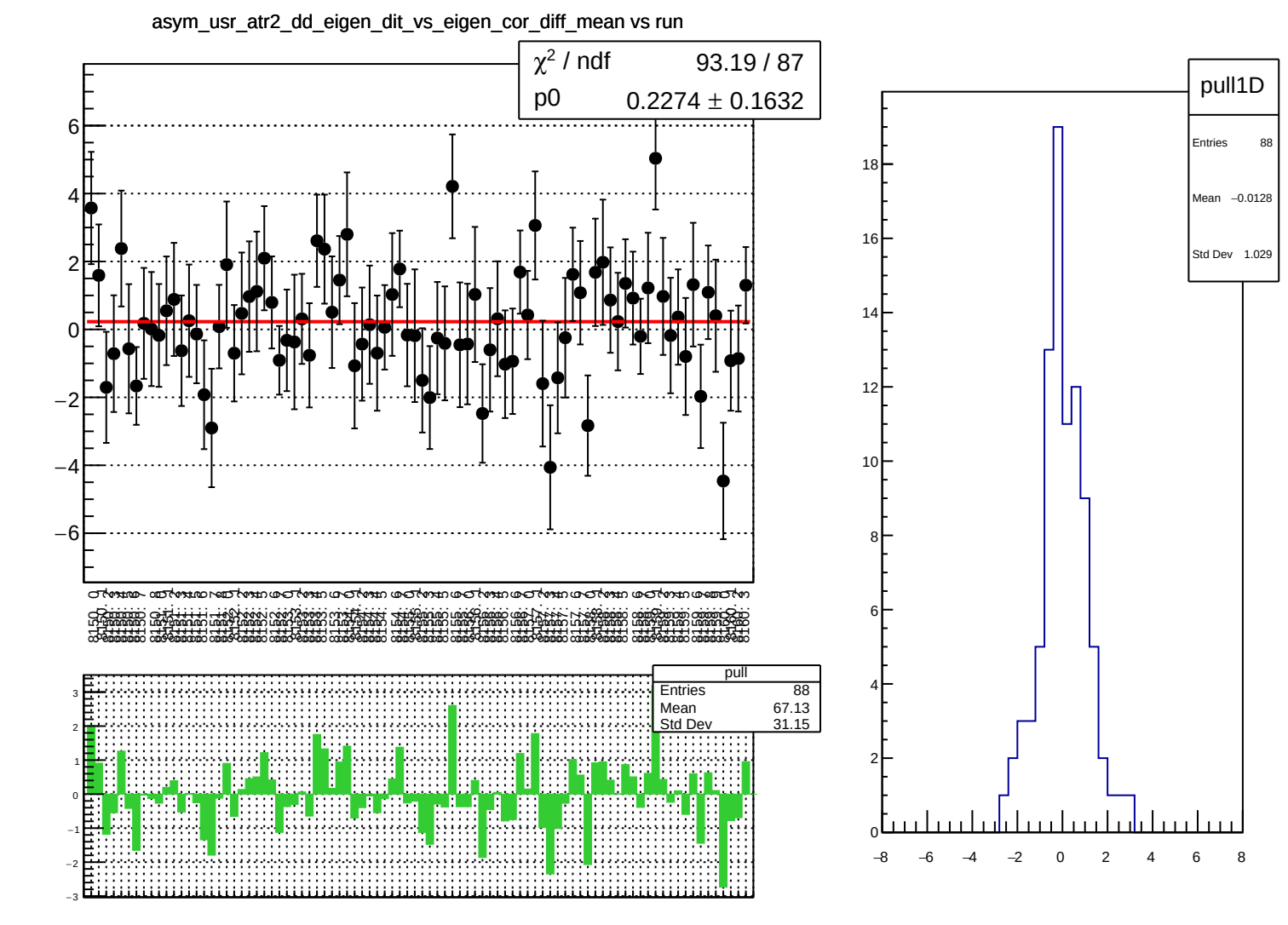

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.022e+04 / 87
p0 148.5 ± 0.1154
190
180
170
160
150
140
130
120
110
100

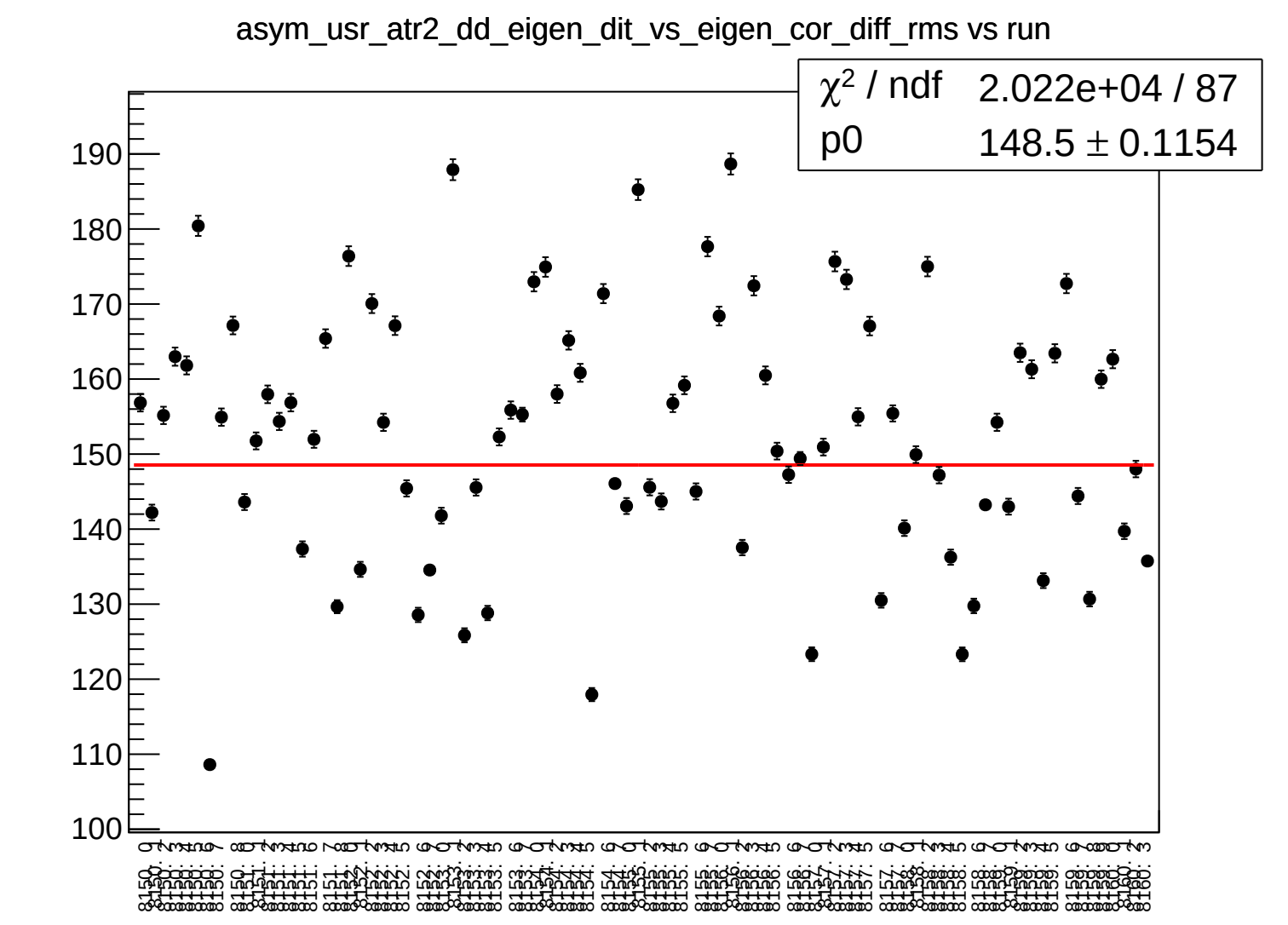

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.2 / 87
p0 1.642e−05 ± 1.455e−05
pull
Entries 88
Mean −2009
Std Dev 0
pull1D
Entries 88
Mean −0.0008842
Std Dev 1.072

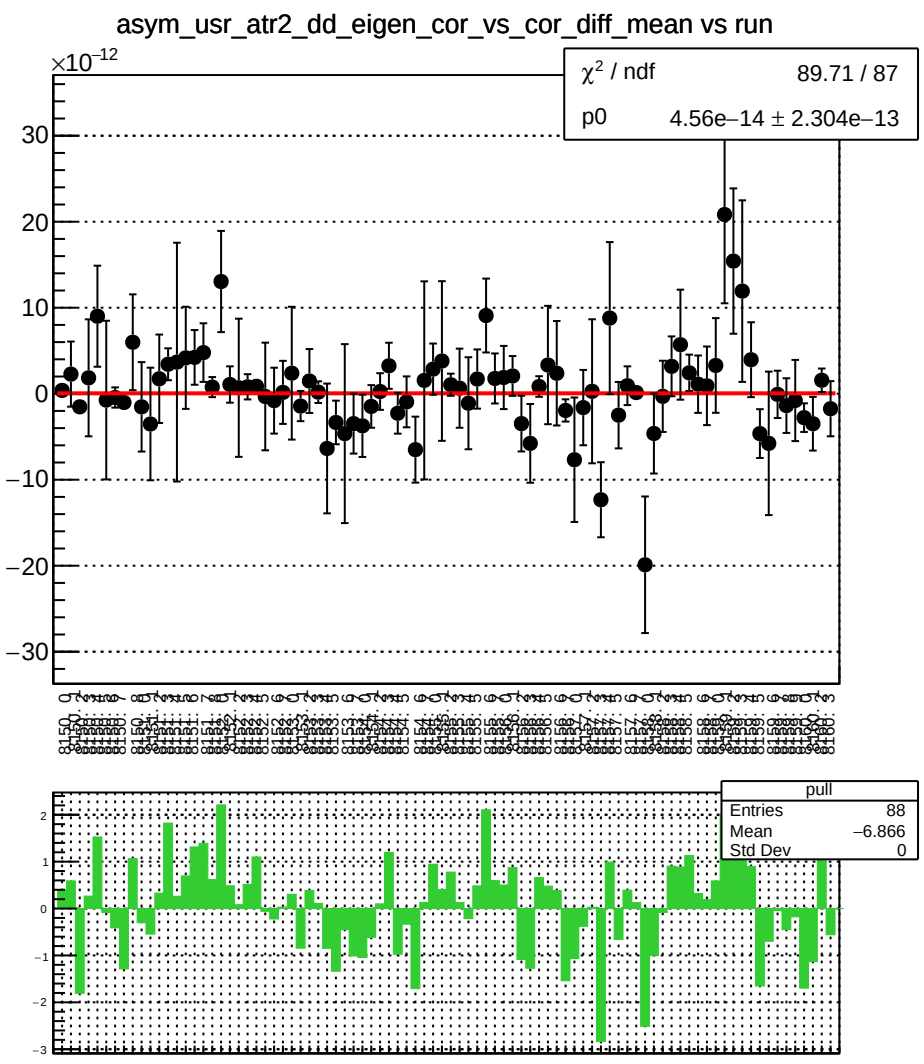

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1344 / 87
p0 0.01332 ± 1.029e−05
0.0145
0.014
0.0135
0.013
0.0125
0.012

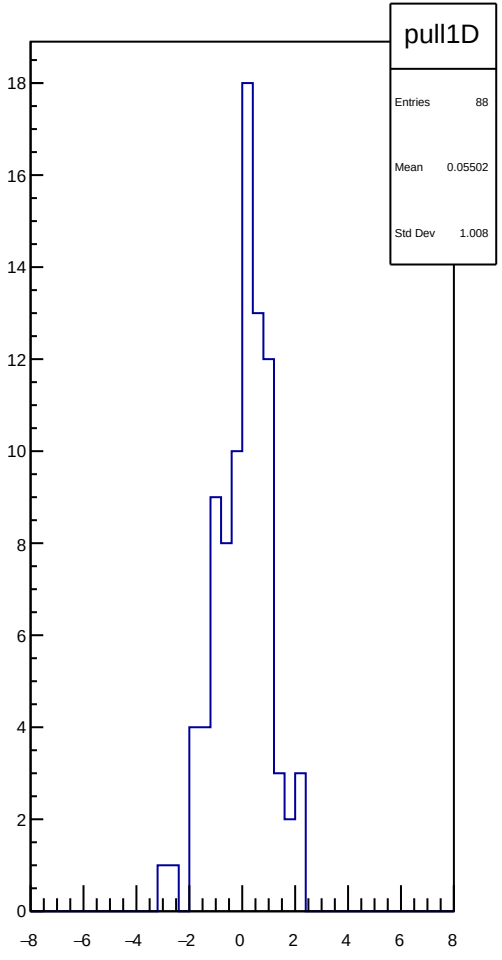

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.19 / 87
p0 0.2274 ± 0.1632
pull
Entries 88
Mean 67.13
Std Dev 31.15
pull1D
Entries 88
Mean −0.0128
Std Dev 1.029

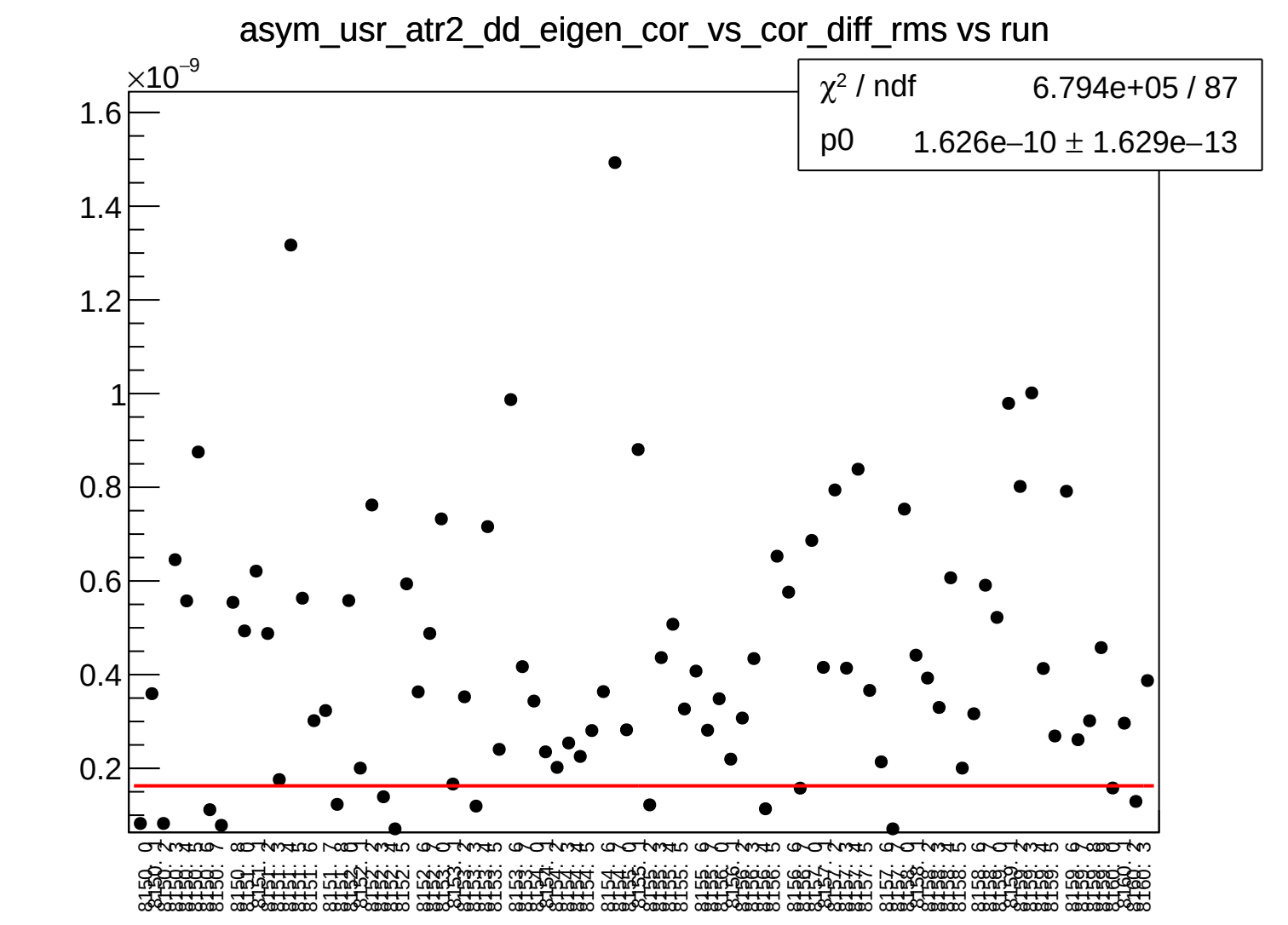

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.022e+04 / 87
p0 148.5 ± 0.1154
190
180
170
160
150
140
130
120
110
100

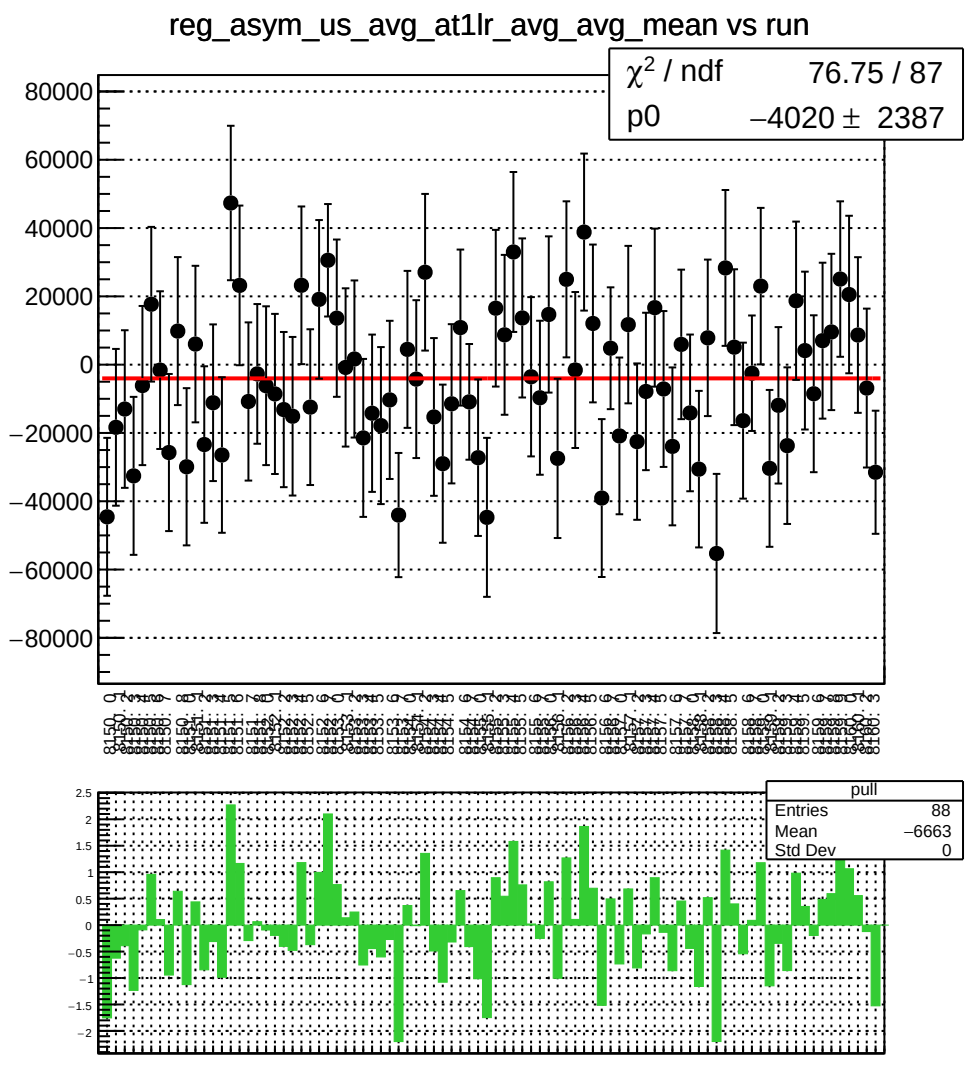

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.19 / 87
p0 0.2274 ± 0.1632
pull
Entries 88
Mean 67.13
Std Dev 31.15
pull1D
Entries 88
Mean −0.0128
Std Dev 1.029

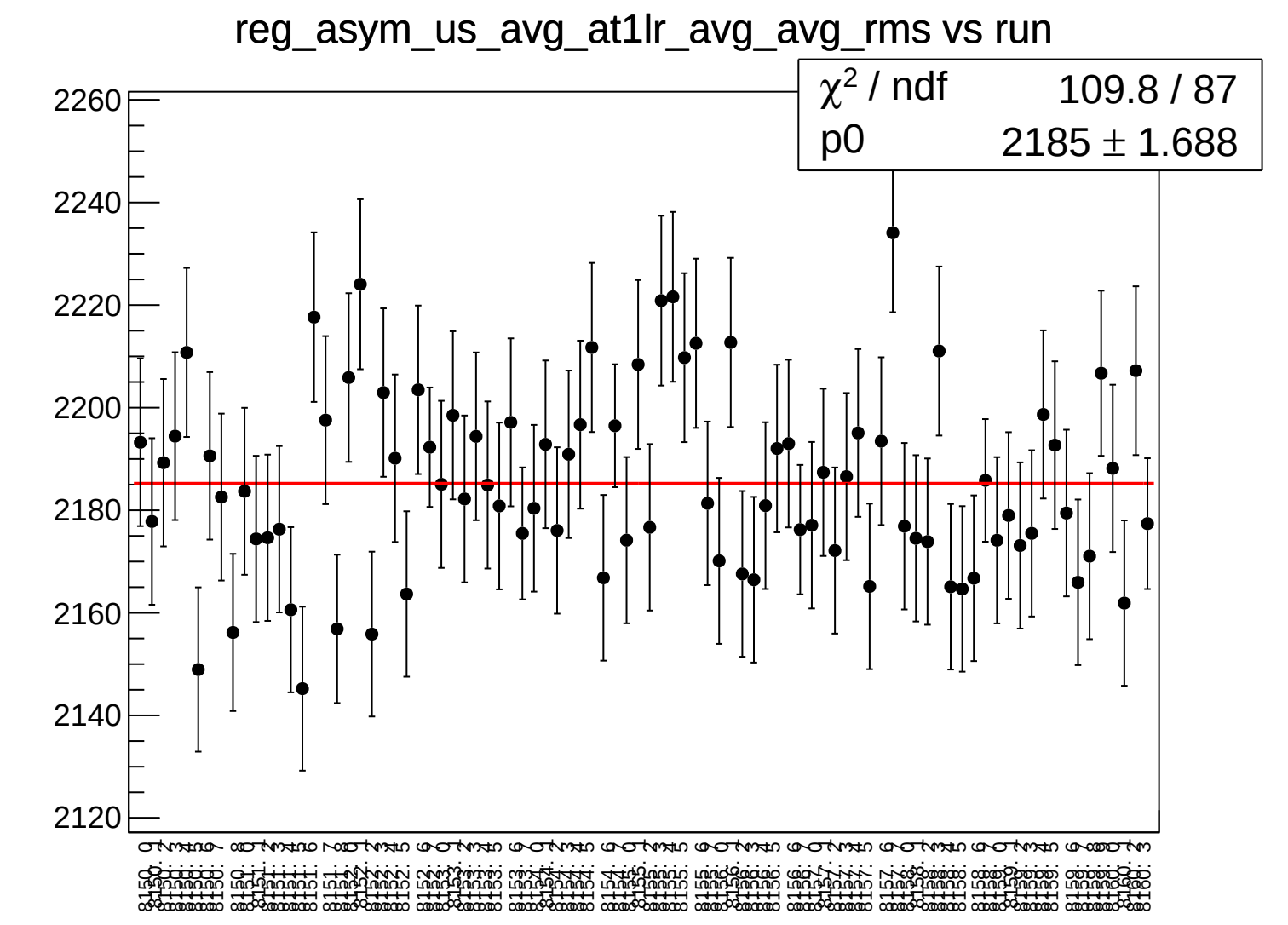

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.022e+04 / 87
p0 148.5 ± 0.1154
190
180
170
160
150
140
130
120
110
100

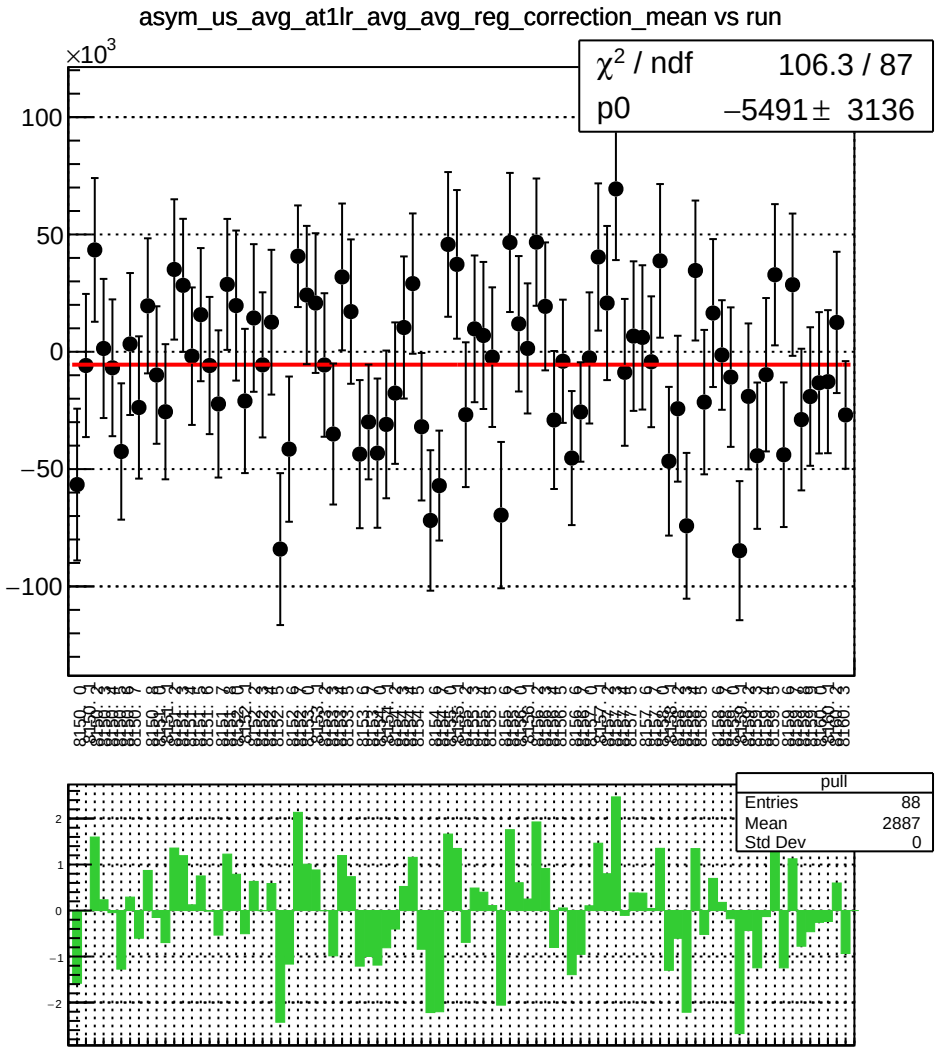

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.71 / 87
p0 4.56e−14 ± 2.304e−13
30
20
10
0
−10
−20
−30
pull
Entries 88
Mean −6.866
Std Dev 0
2
1
0
−1
−2
−3

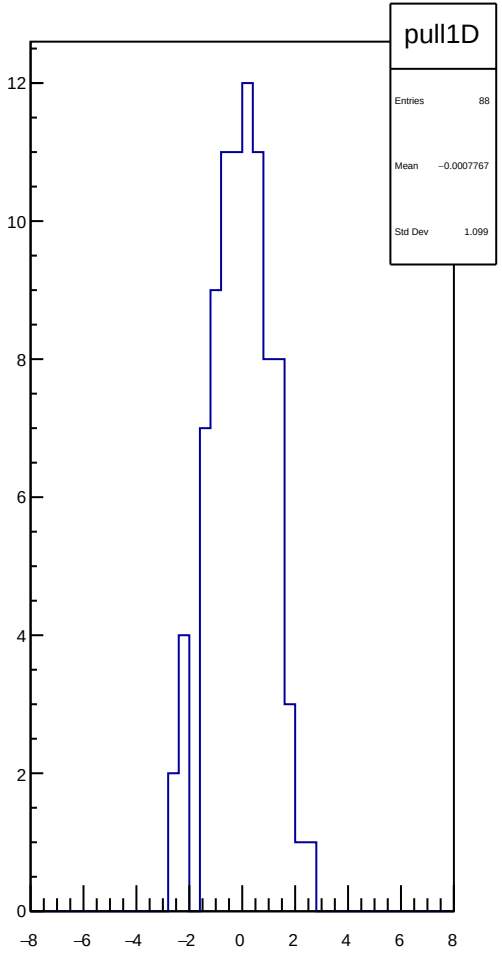

pull1D
Entries 88
Mean 0.05502
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

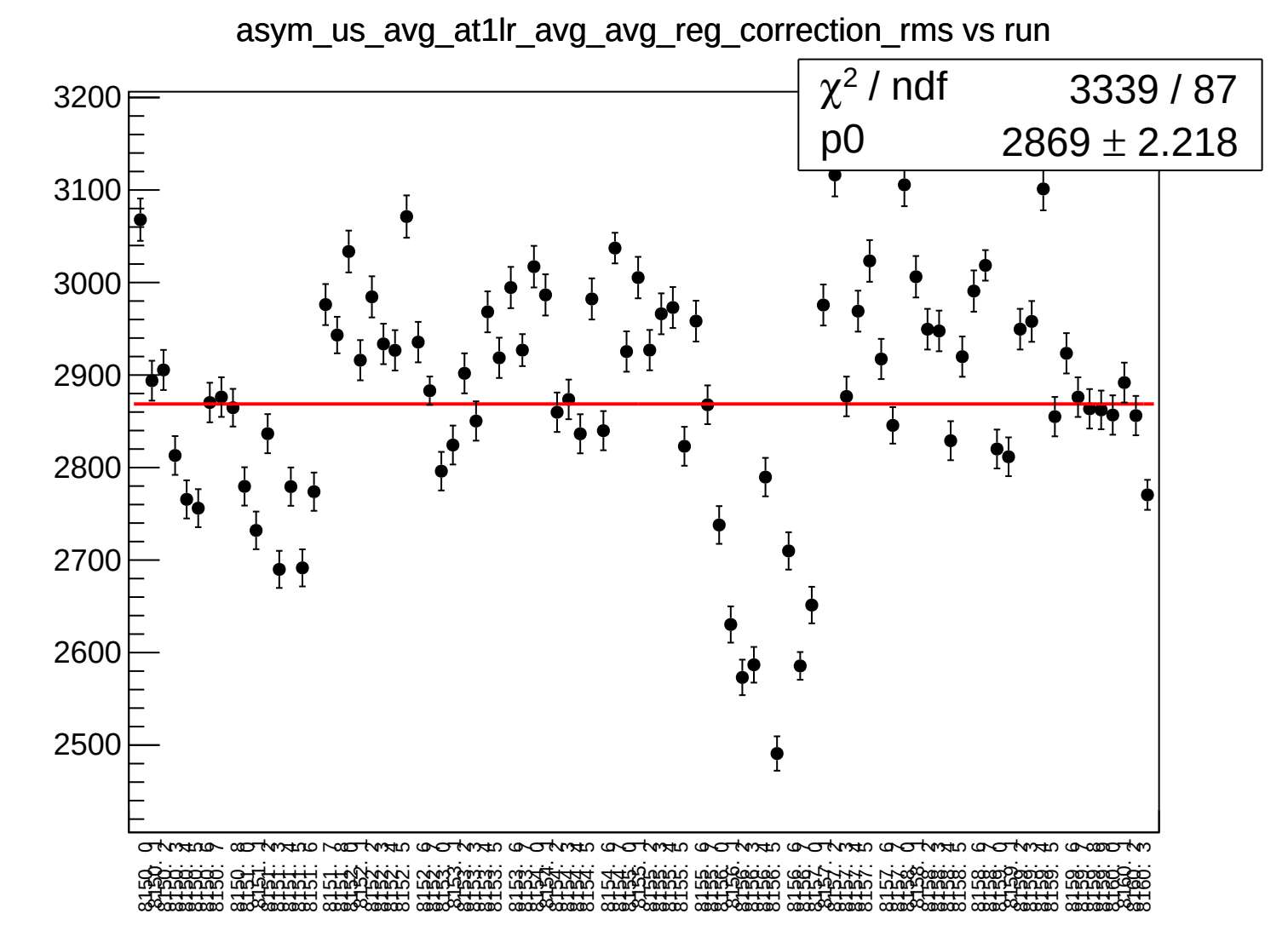

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.794e+05 / 87
p0 1.626e−10 ± 1.629e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

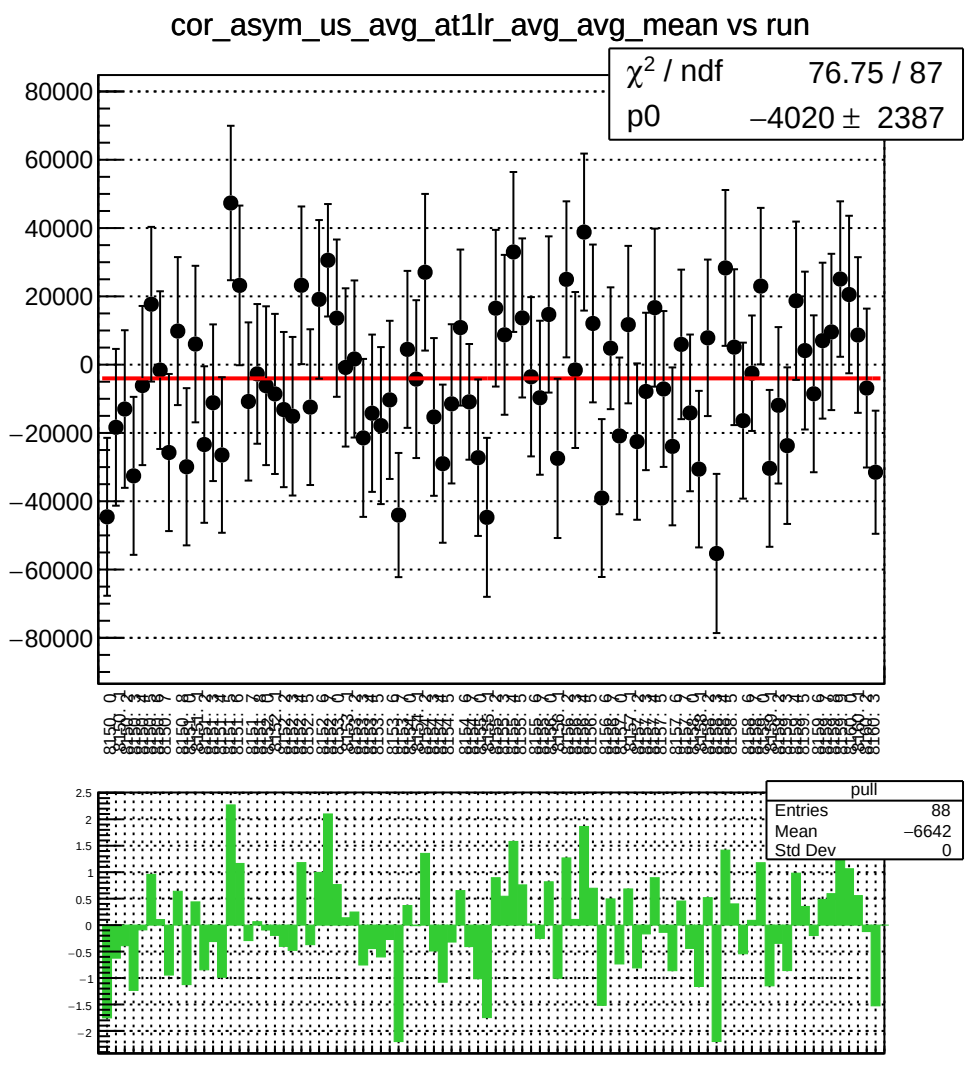

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 76.75 / 87
p0 −4020 ± 2387
pull
Entries 88
Mean −6663
Std Dev 0
pull1D
Entries 88
Mean −0.0003102
Std Dev 0.9339

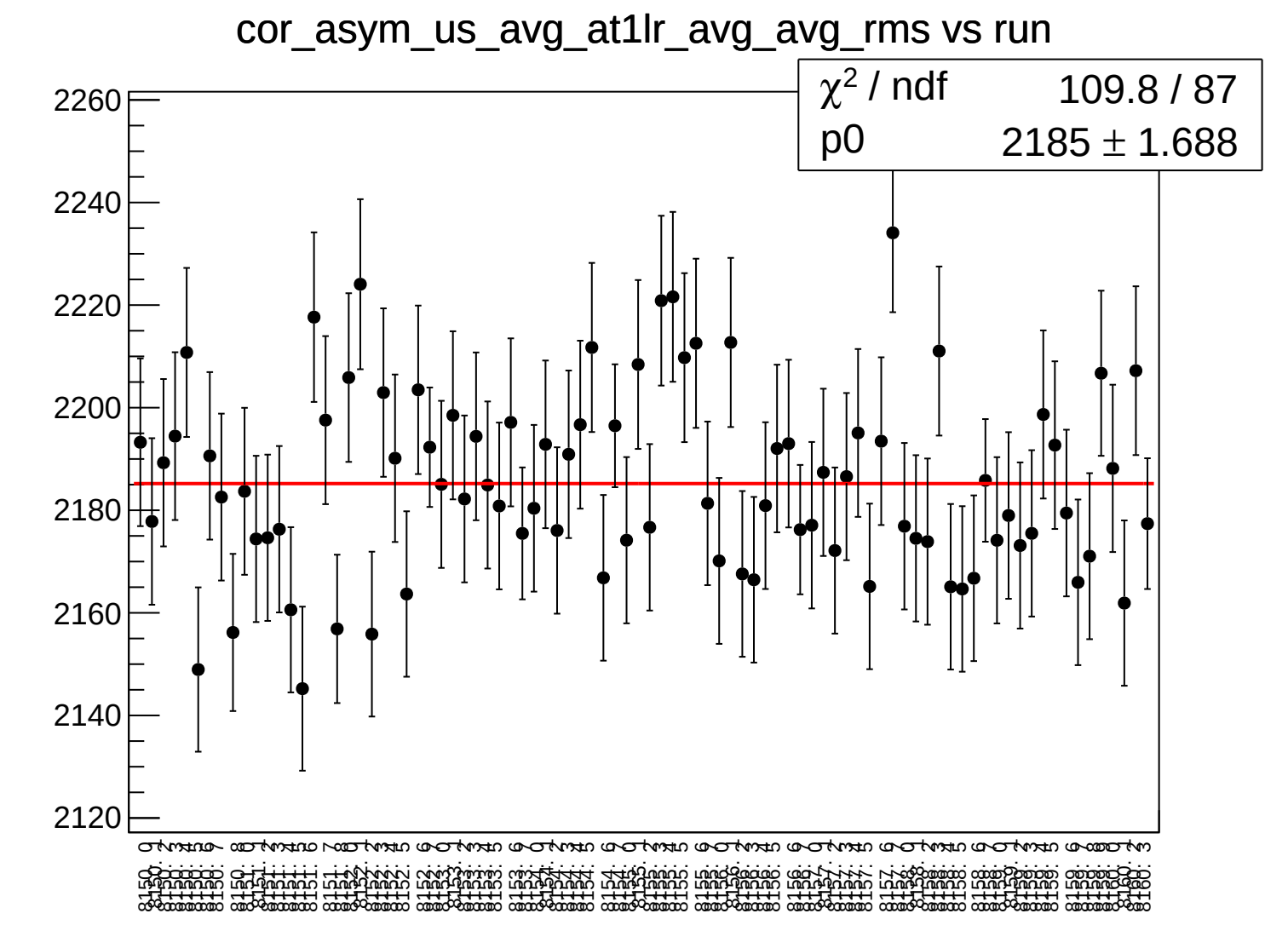

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 109.8 / 87
p0 2185 ± 1.688
2260
2240
2220
2200
2180
2160
2140
2120

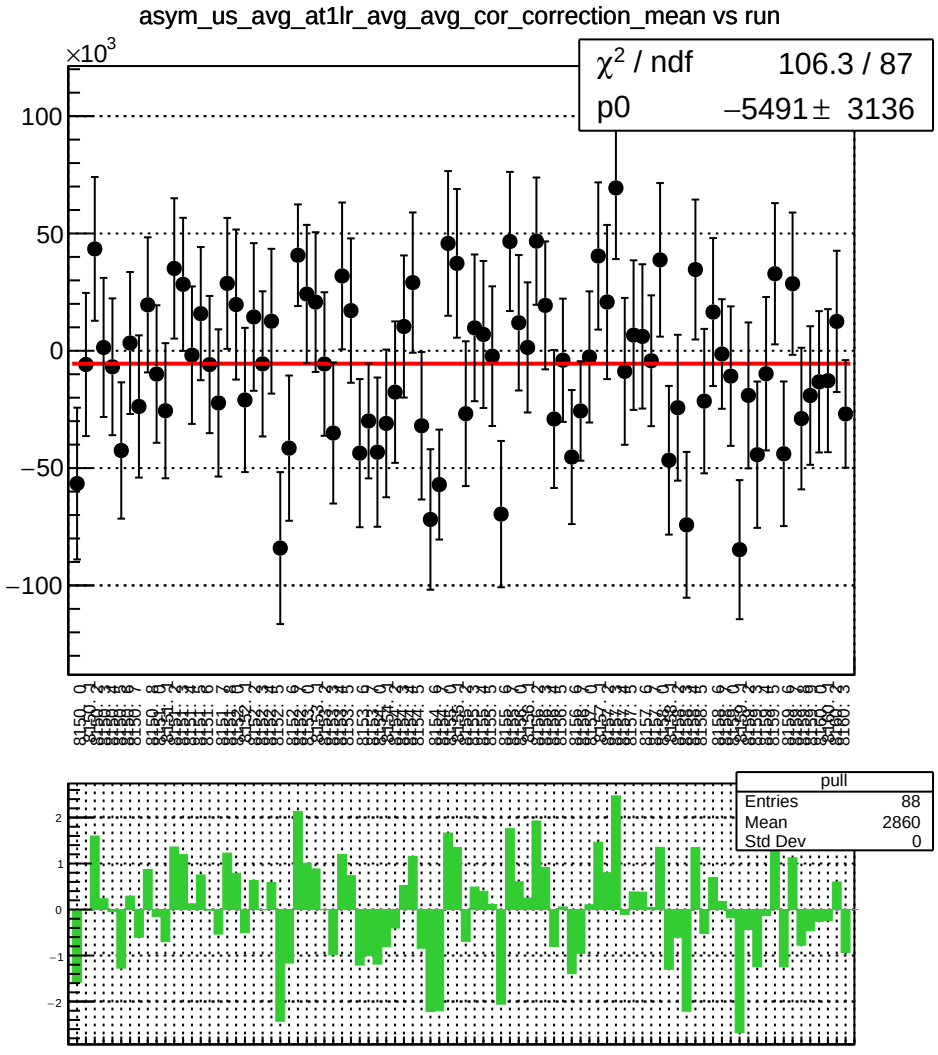

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 106.3 / 87
p0 −5491 ± 3136
100
50
0
−50
−100
pull
Entries 88
Mean 2887
Std Dev 0
2
1
0
−1
−2

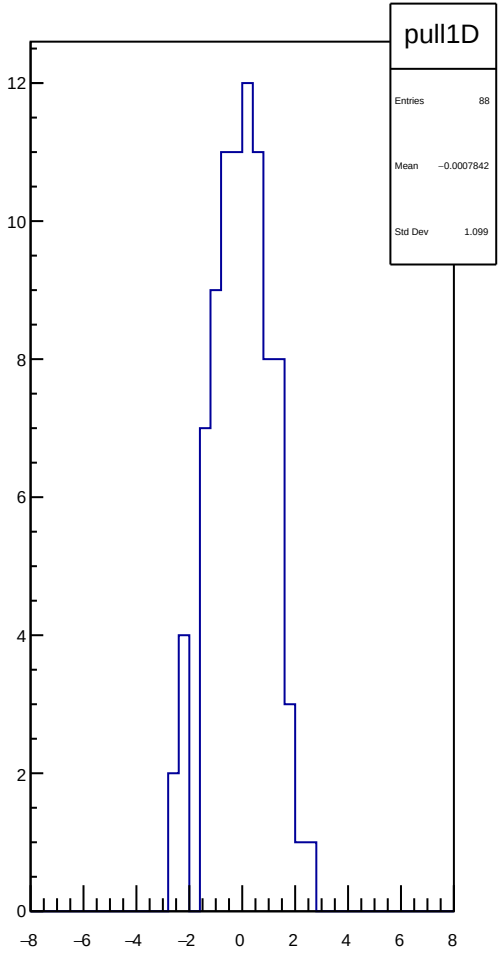

pull1D
Entries 88
Mean −0.0007767
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

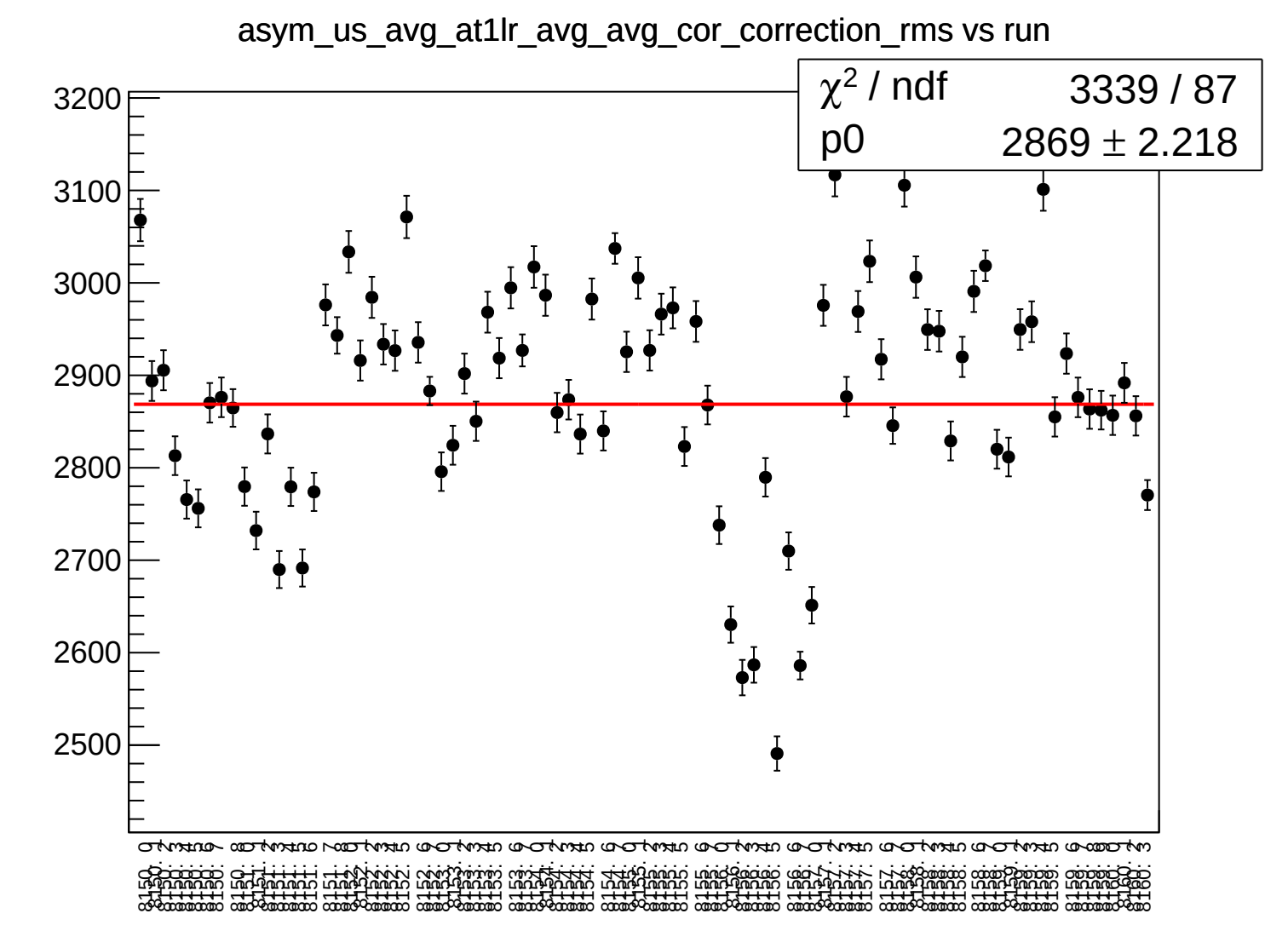

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 3339 / 87
p0 2869 ± 2.218
3200
3100
3000
2900
2800
2700
2600
2500

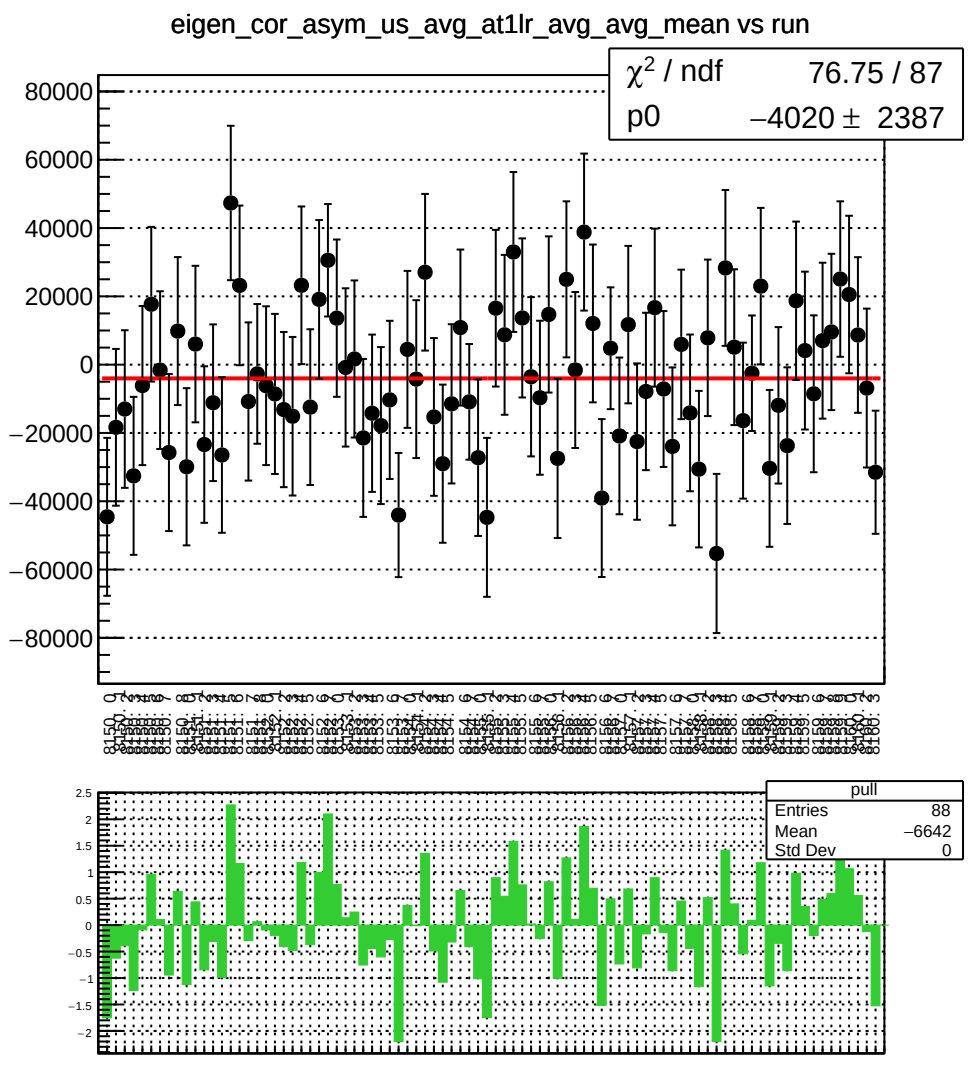

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 76.75 / 87
p0 −4020 ± 2387
pull
Entries 88
Mean −6642
Std Dev 0
pull1D
Entries 88
Mean −0.0003111
Std Dev 0.9339

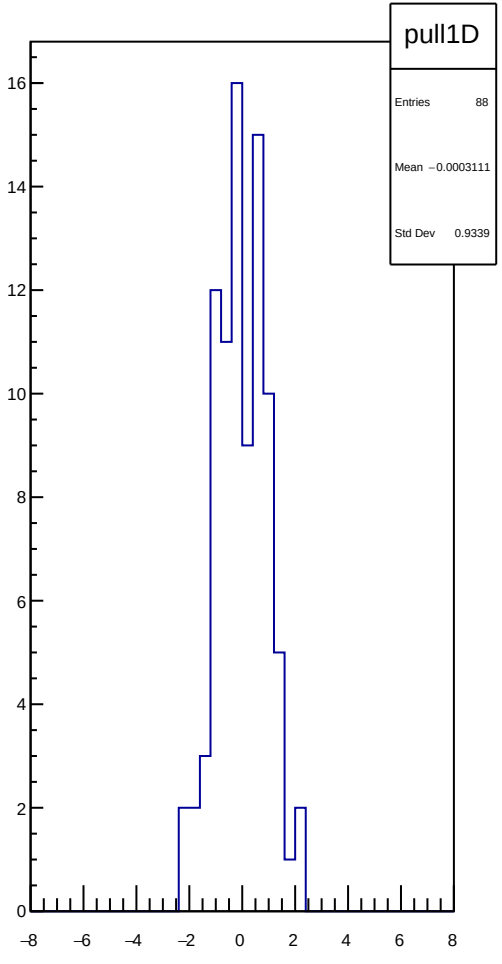

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 109.8 / 87
p0 2185 ± 1.688
2260
2240
2220
2200
2180
2160
2140
2120

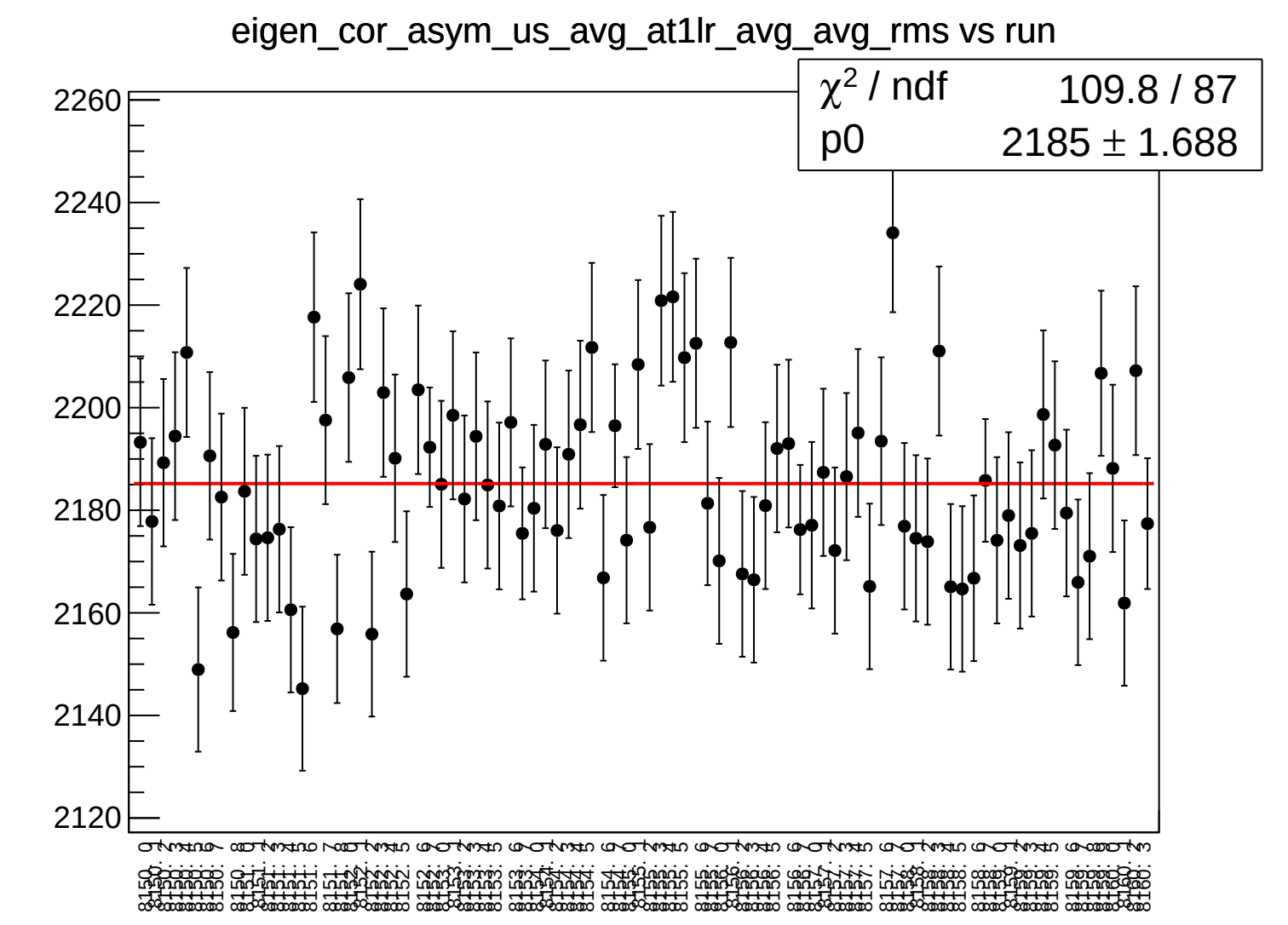

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 106.3 / 87
p0 −5491 ± 3136
100
50
0
−50
−100
pull
Entries 88
Mean 2860
Std Dev 0
2
1
0
−1
−2

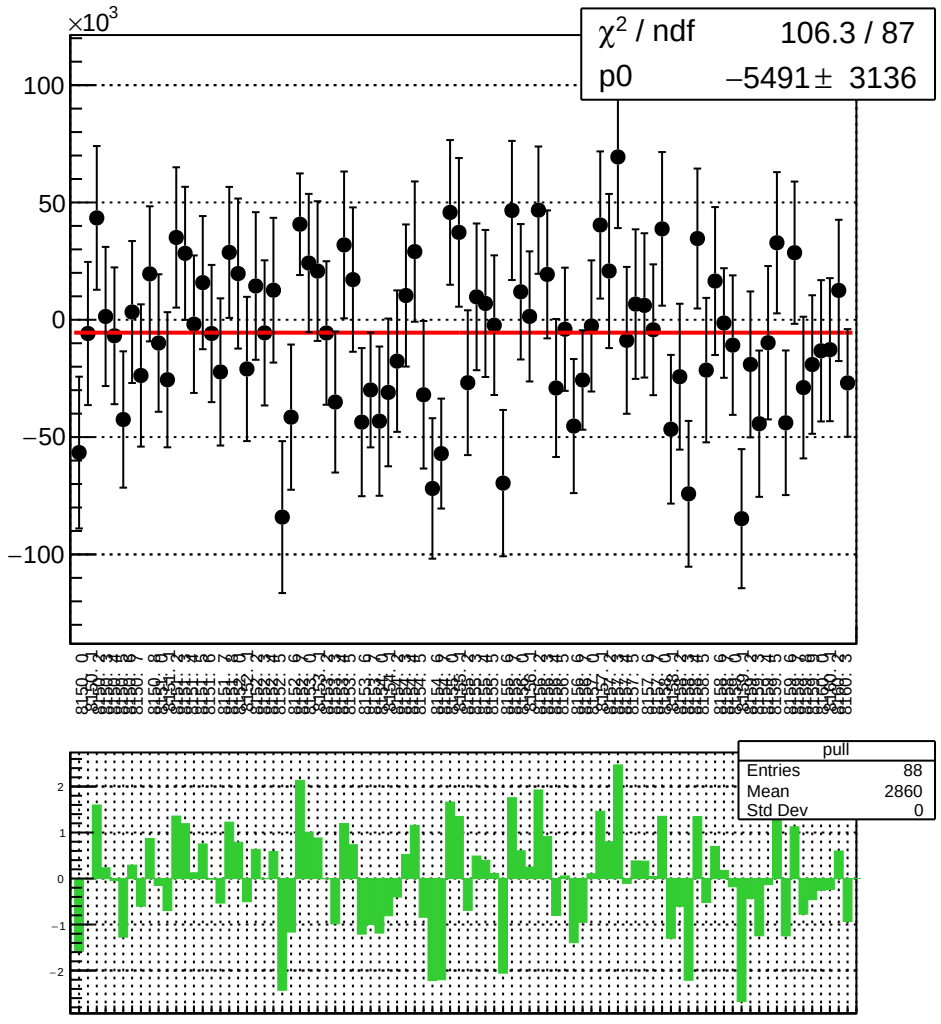

pull1D
Entries 88
Mean −0.0007842
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

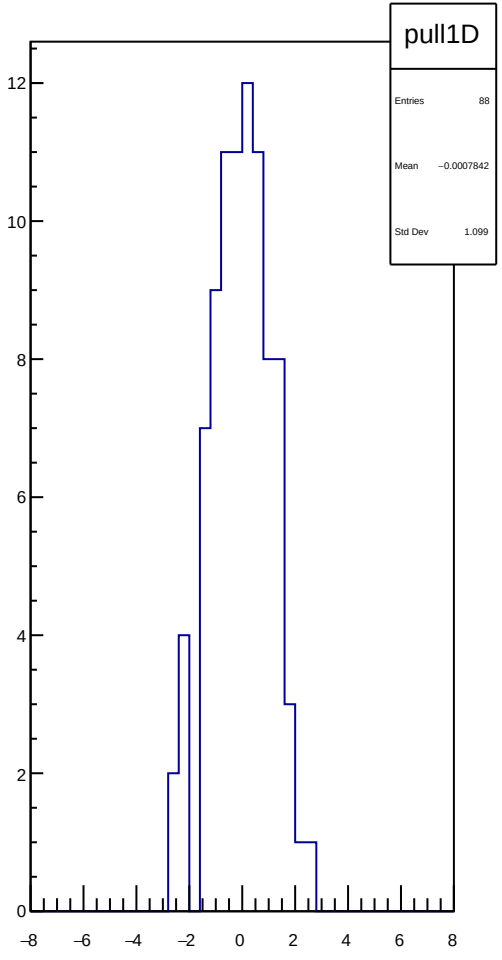

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3339 / 87
p0 2869 ± 2.218
3200
3100
3000
2900
2800
2700
2600
2500

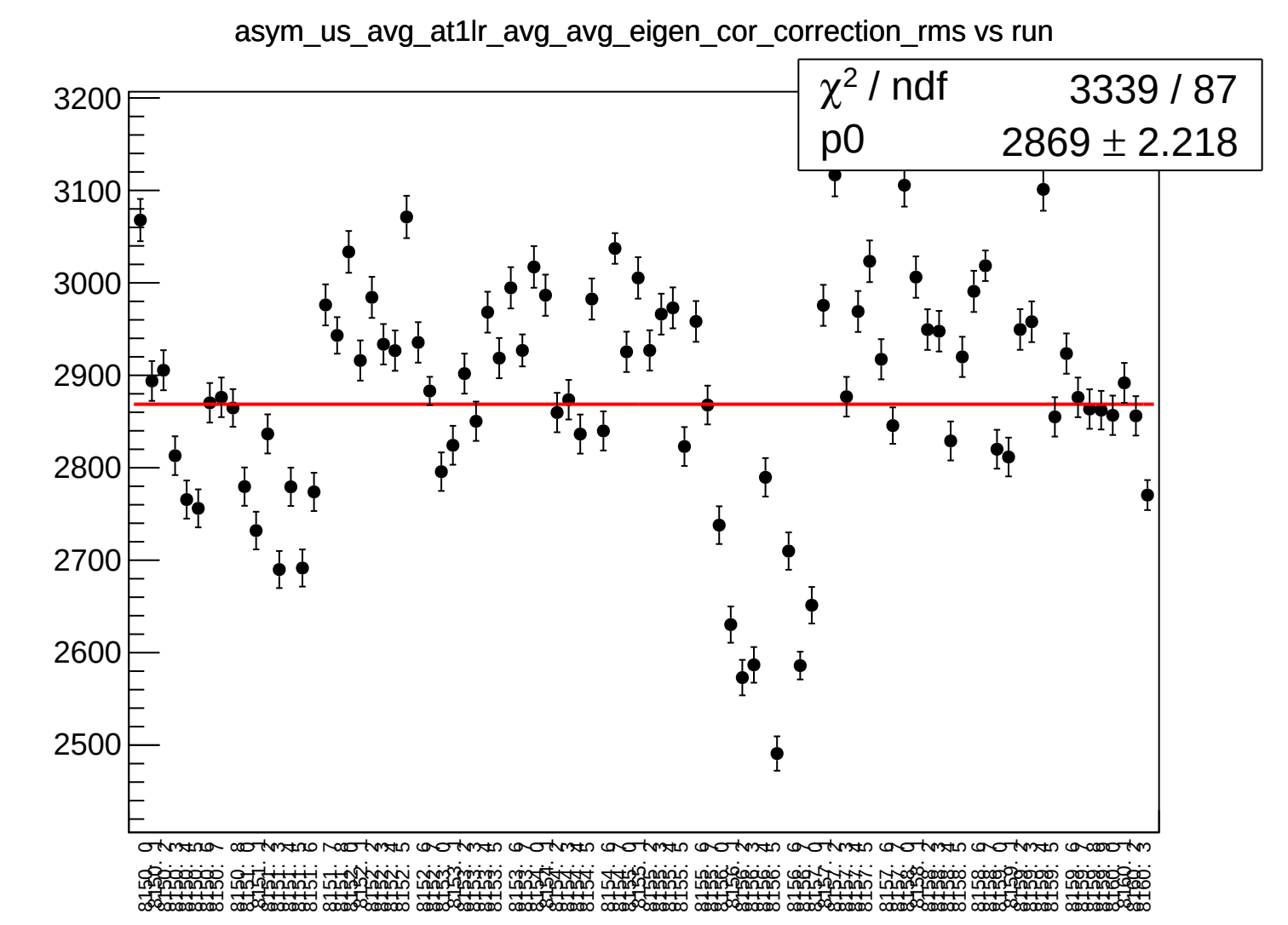

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 76.75 / 87
p0 −4020 ± 2387
pull
Entries 88
Mean −6642
Std Dev 0

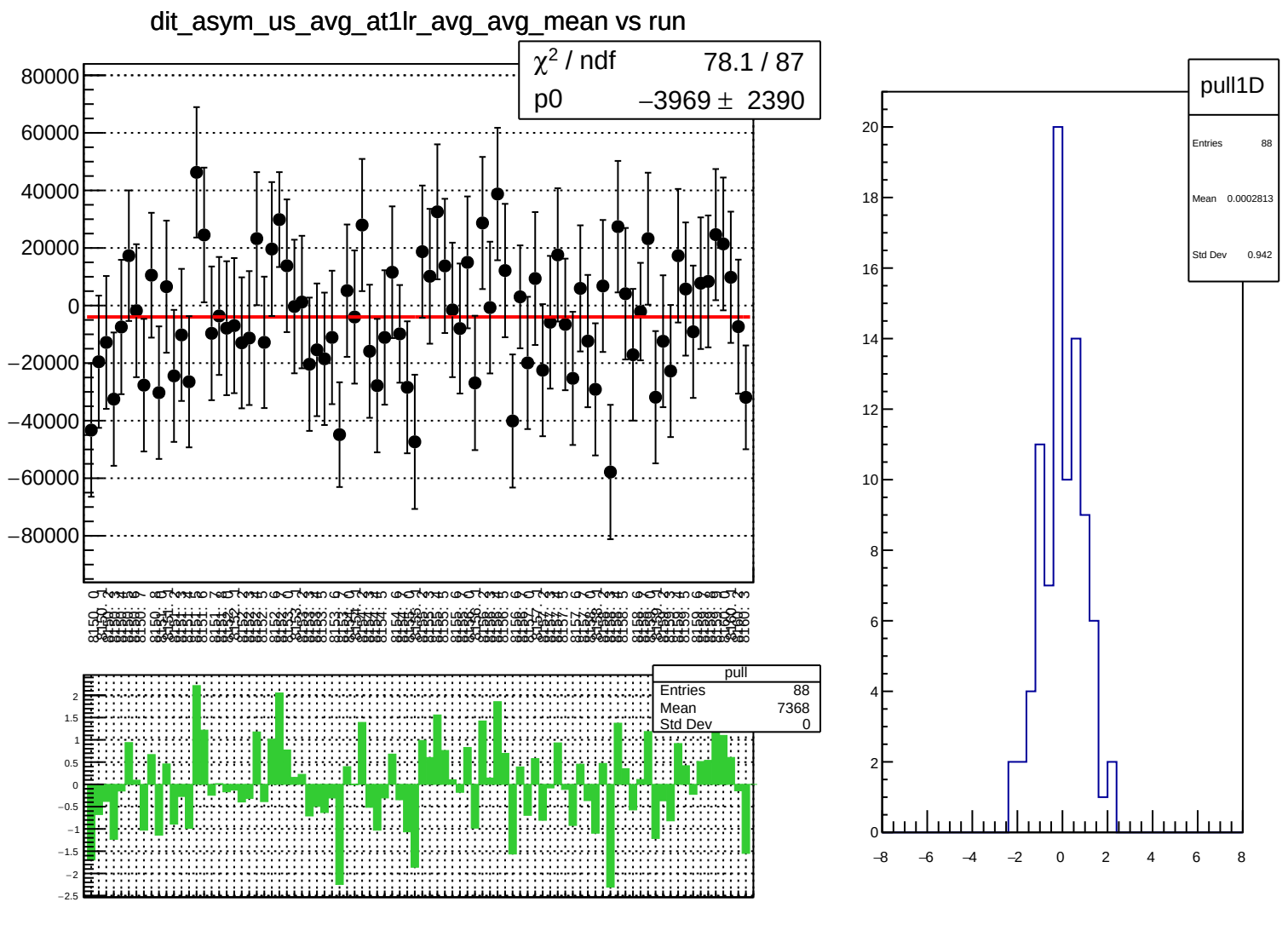

pull1D
Entries 88
Mean −0.0003111
Std Dev 0.9339

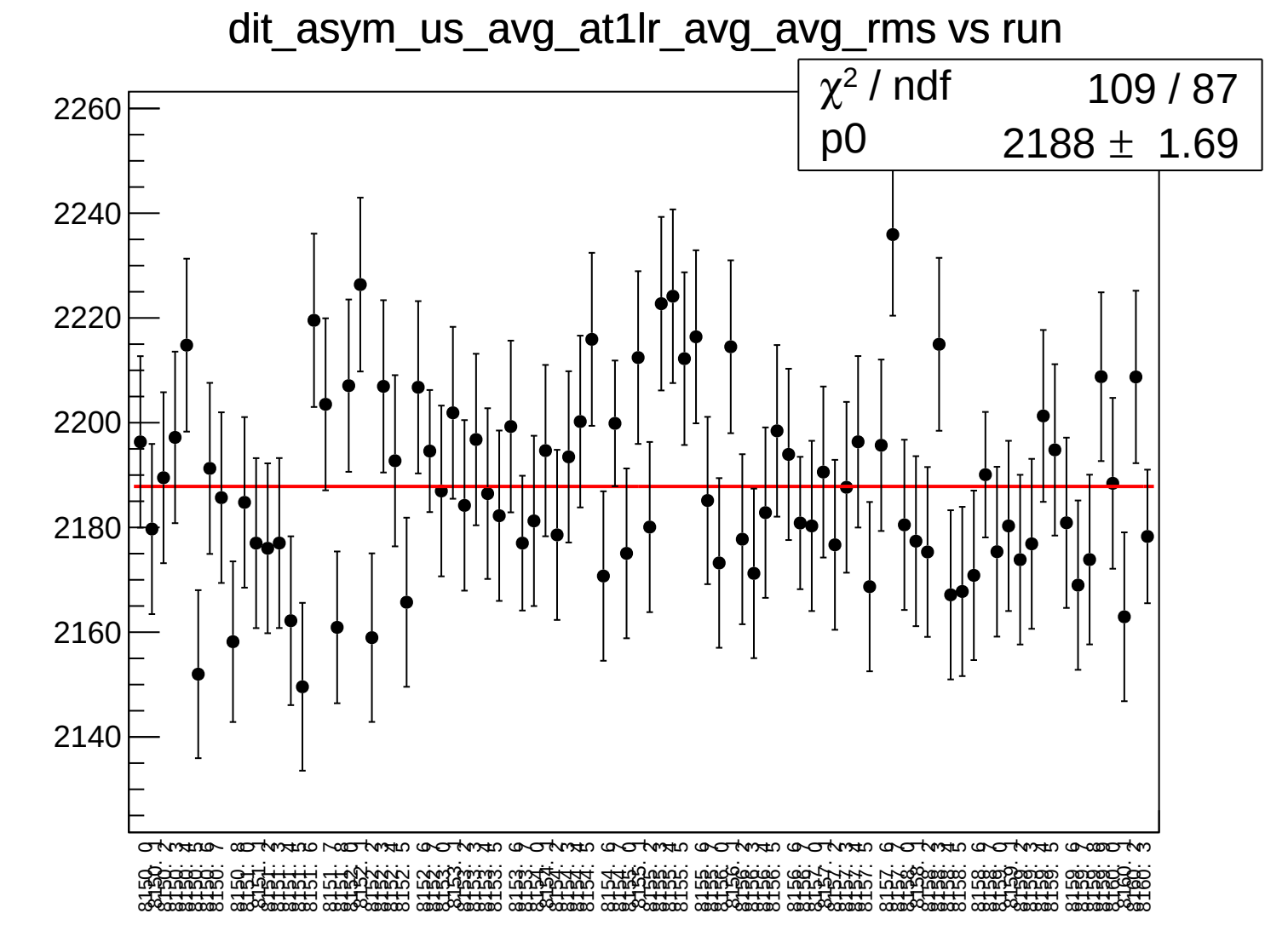

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 109.8 / 87
p0 2185 ± 1.688
2260
2240
2220
2200
2180
2160
2140
2120

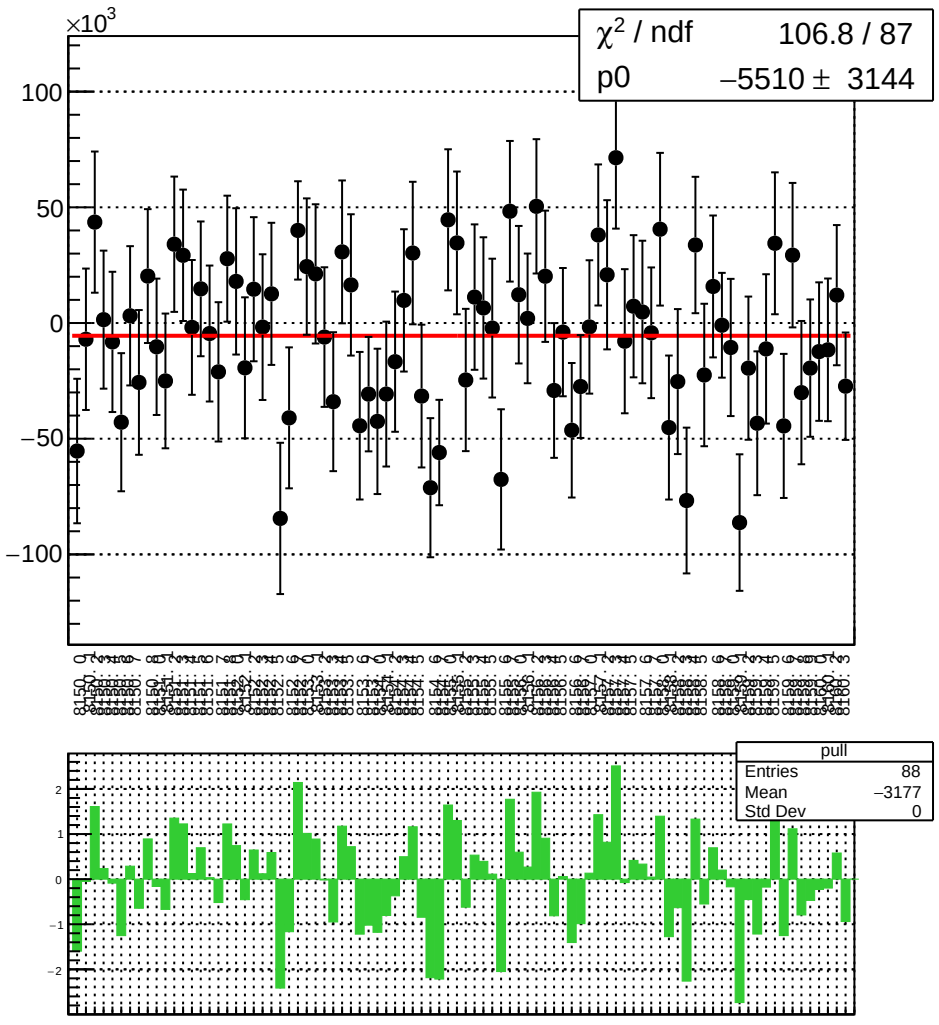

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.3 / 87
p0 −5491 ± 3136
100
50
0
−50
−100
pull
Entries 88
Mean 2860
Std Dev 0
2
1
0
−1
−2

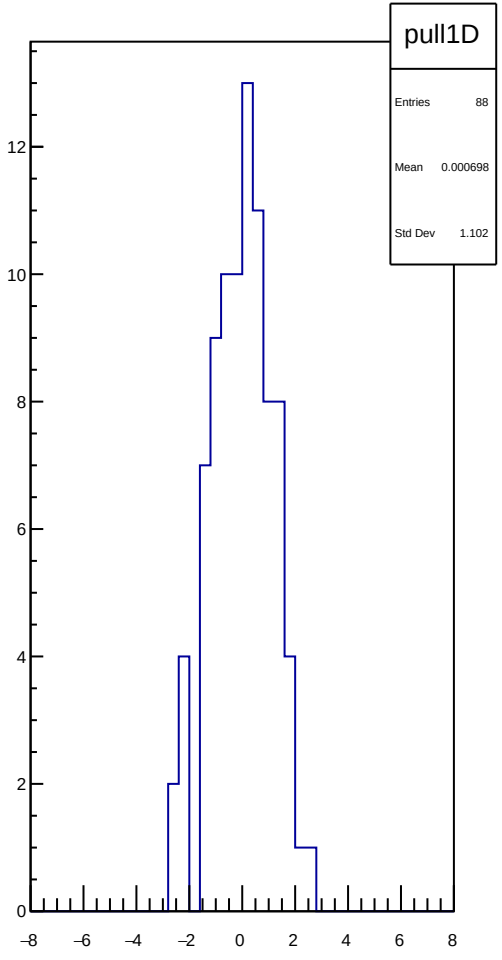

pull1D
Entries 88
Mean −0.0007842
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

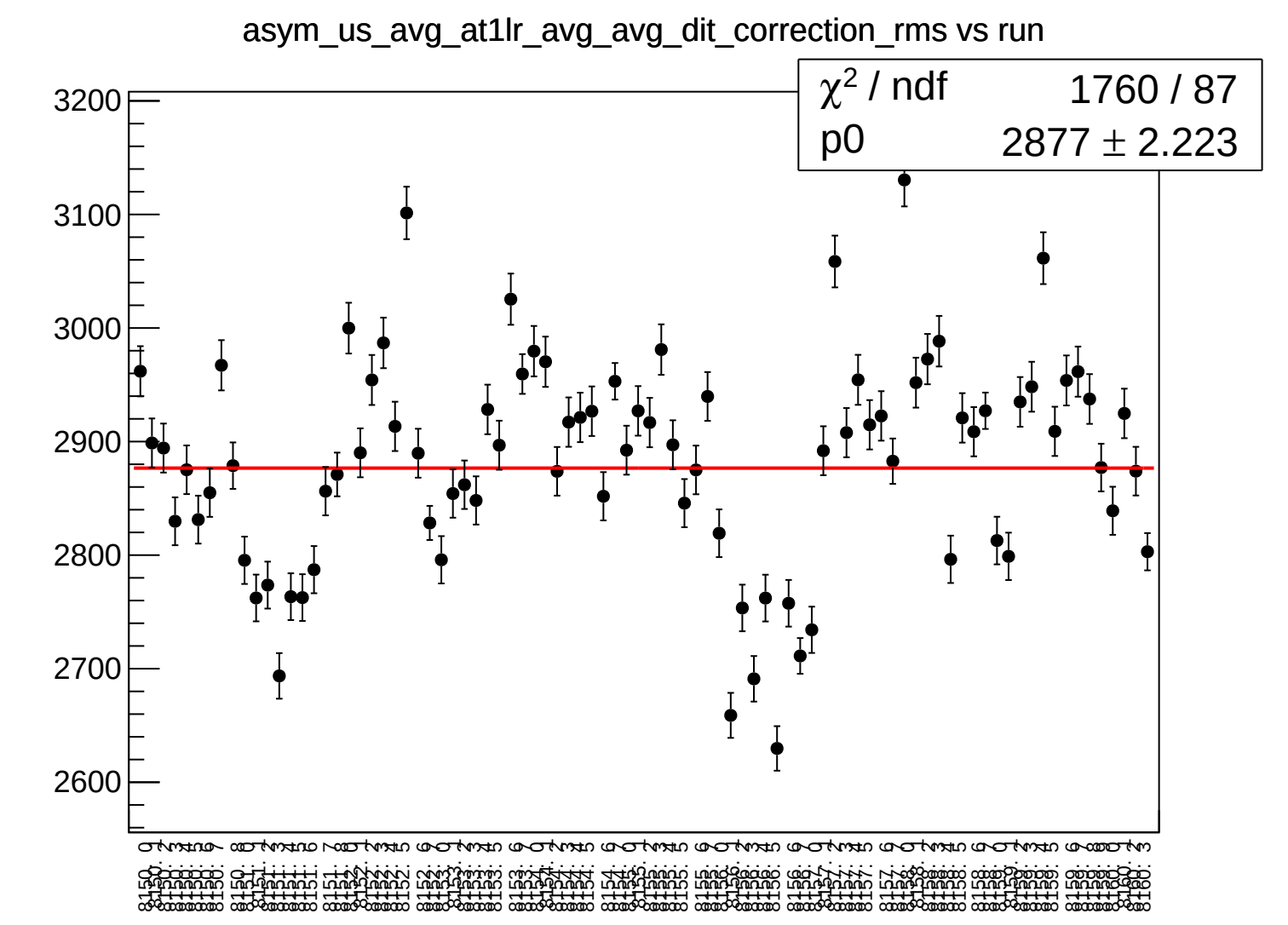

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3339 / 87
p0 2869 ± 2.218
3200
3100
3000
2900
2800
2700
2600
2500

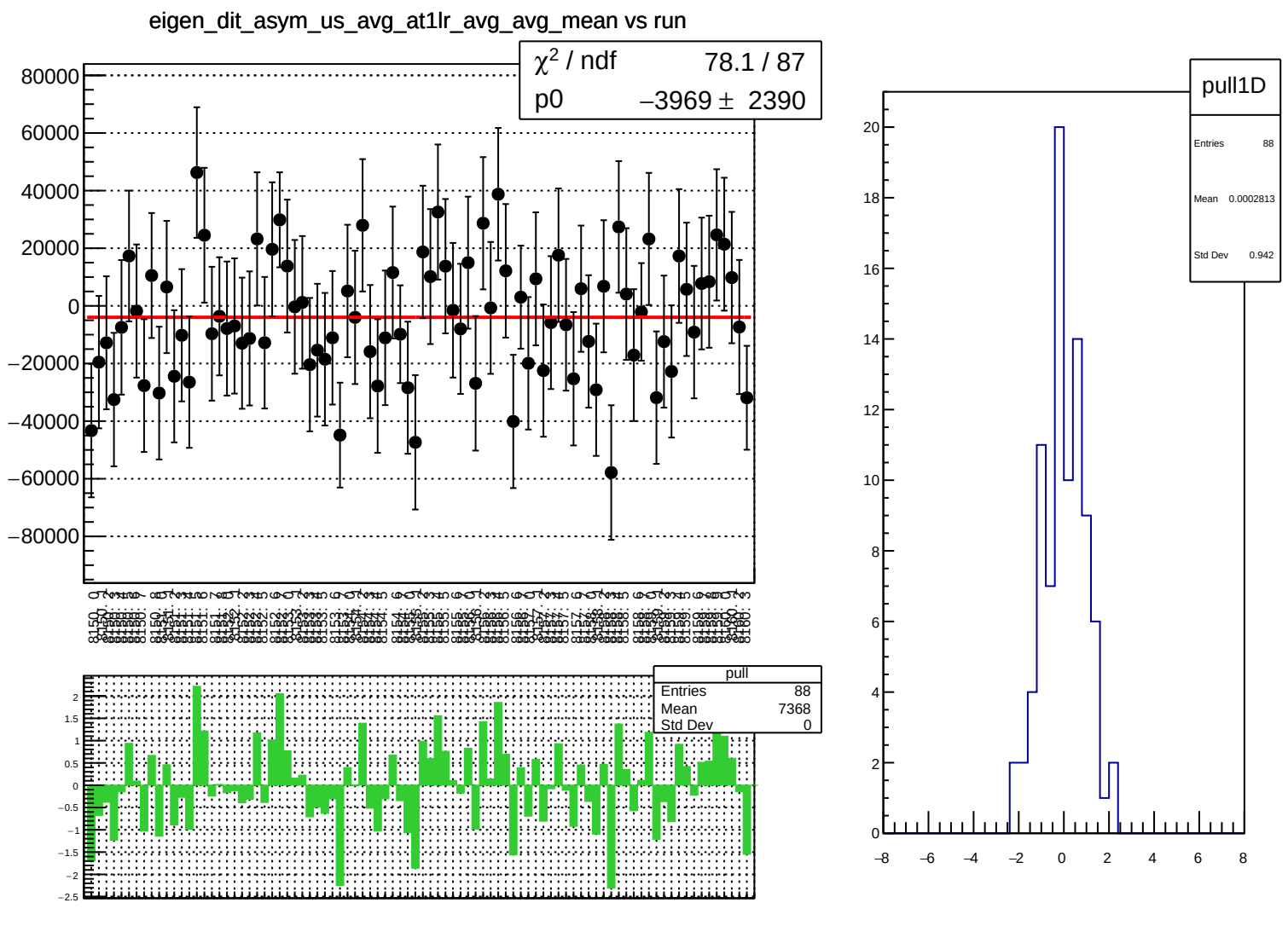

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 78.1 / 87
p0 −3969 ± 2390
pull
Entries 88
Mean 7368
Std Dev 0
pull1D
Entries 88
Mean 0.0002813
Std Dev 0.942

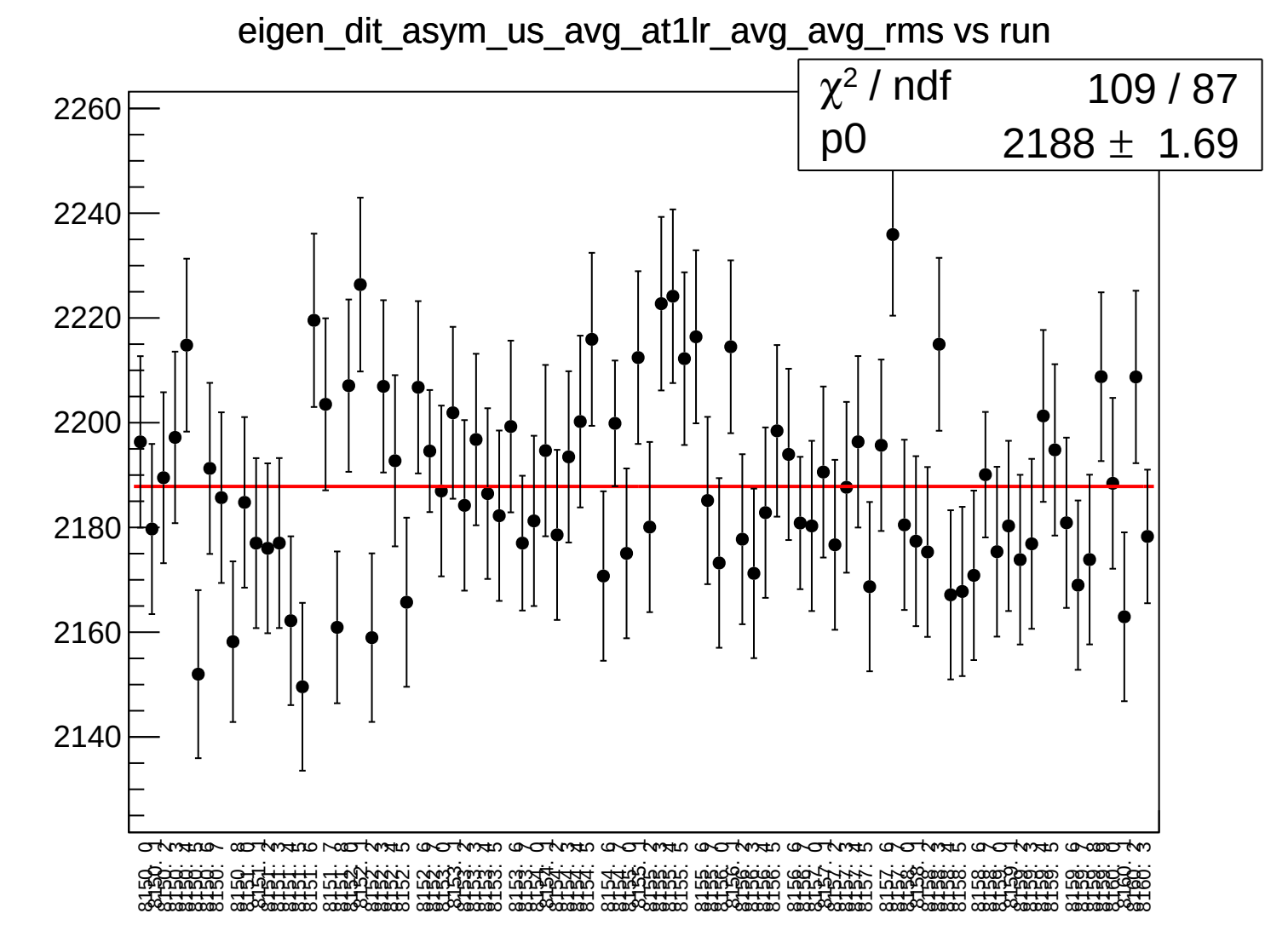

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 109 / 87
p0 2188 ± 1.69
2260
2240
2220
2200
2180
2160
2140

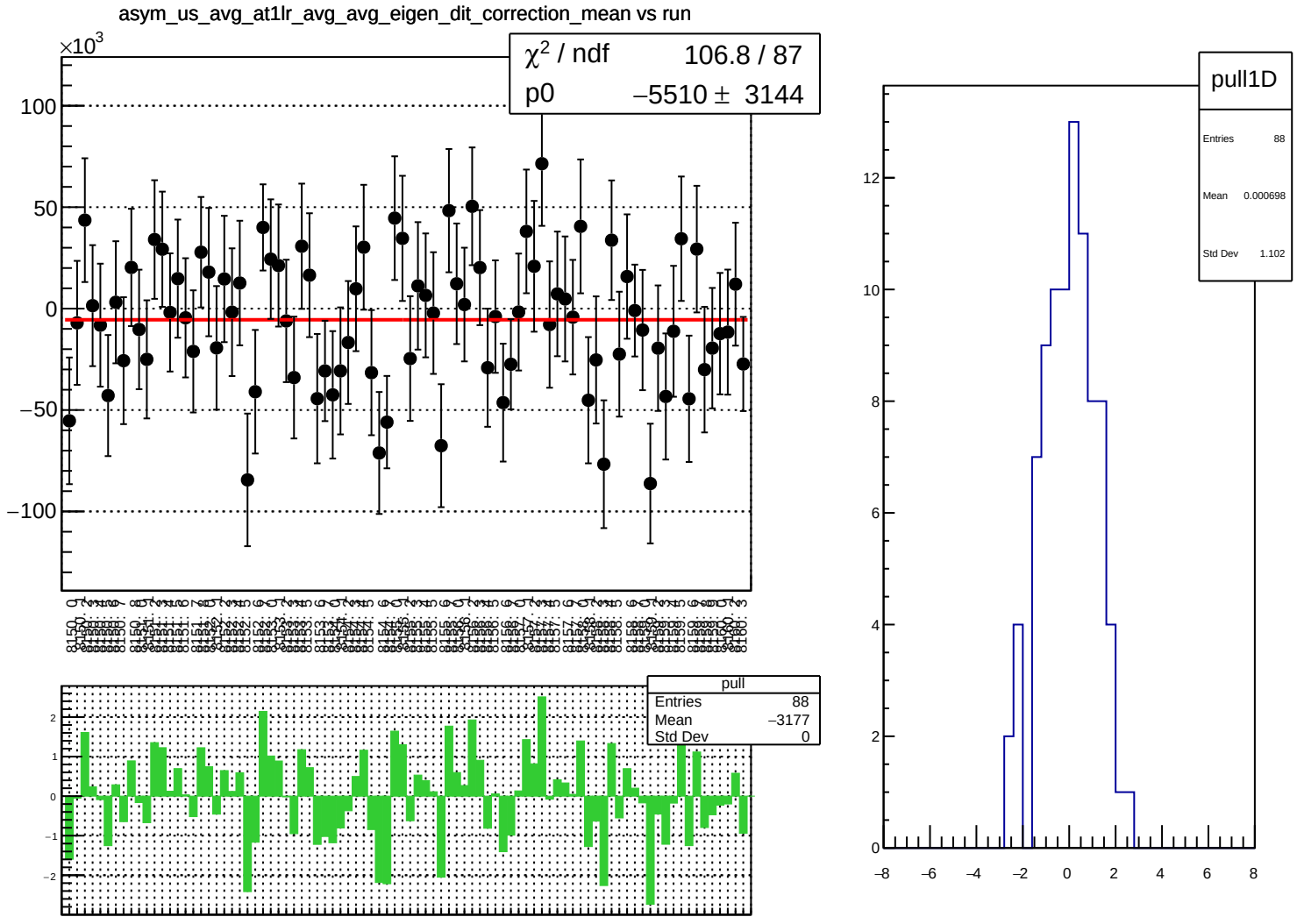

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 106.8 / 87
p0 −5510 ± 3144
100
50
0
−50
−100
pull
Entries 88
Mean −3177
Std Dev 0
2
1
0
−1
−2

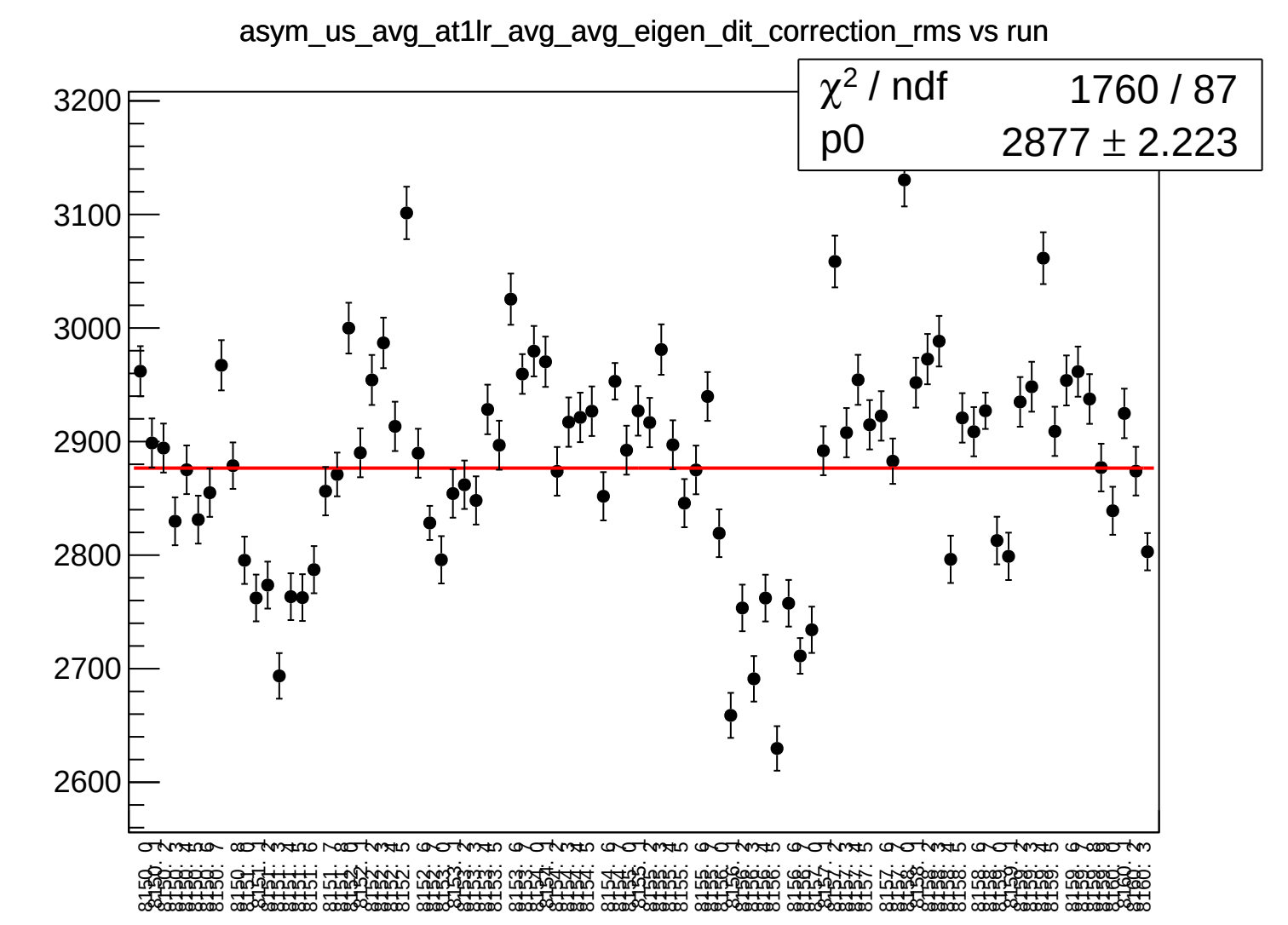

pull1D
Entries 88
Mean 0.000698
Std Dev 1.102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

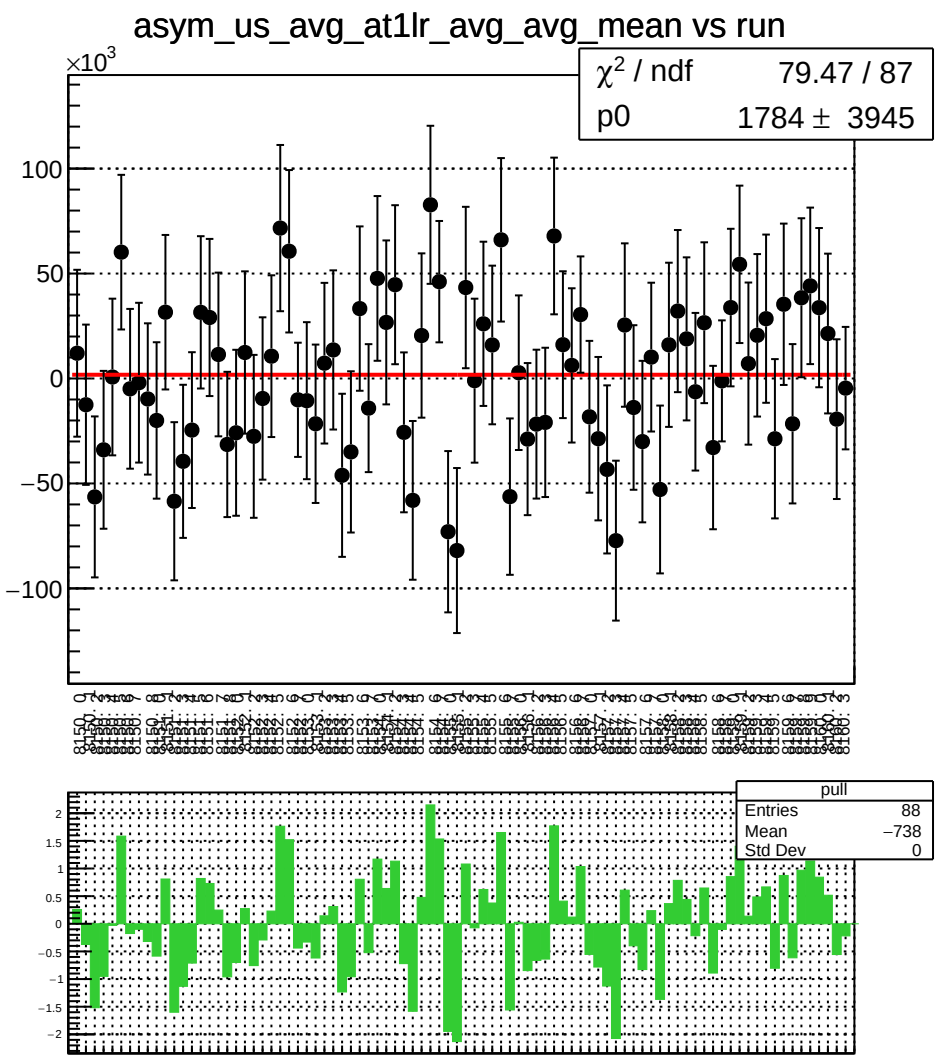

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1760 / 87
p0 2877 ± 2.223
3200
3100
3000
2900
2800
2700
2600

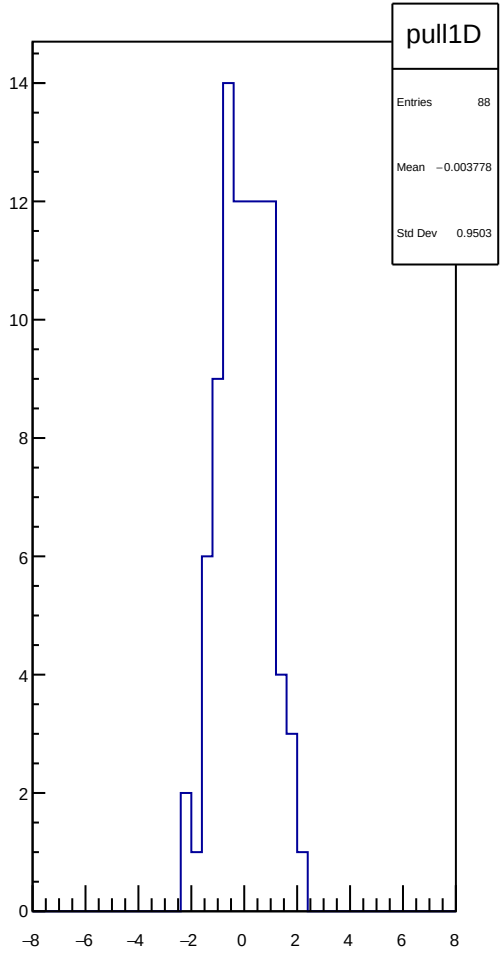

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 78.1 / 87
p0 −3969 ± 2390
pull
Entries 88
Mean 7368
Std Dev 0
pull1D
Entries 88
Mean 0.0002813
Std Dev 0.942

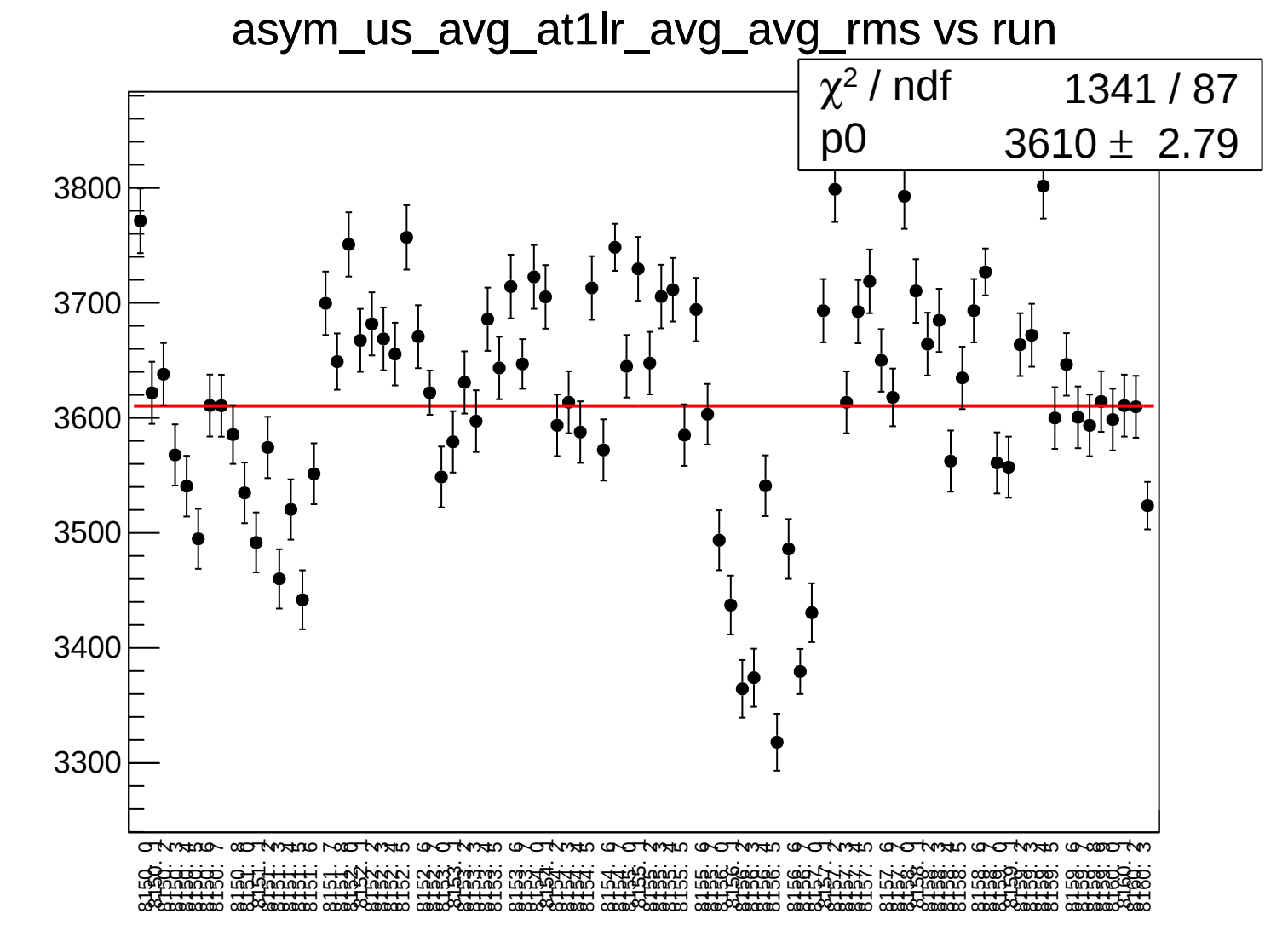

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 109 / 87
p0 2188 ± 1.69
2260
2240
2220
2200
2180
2160
2140

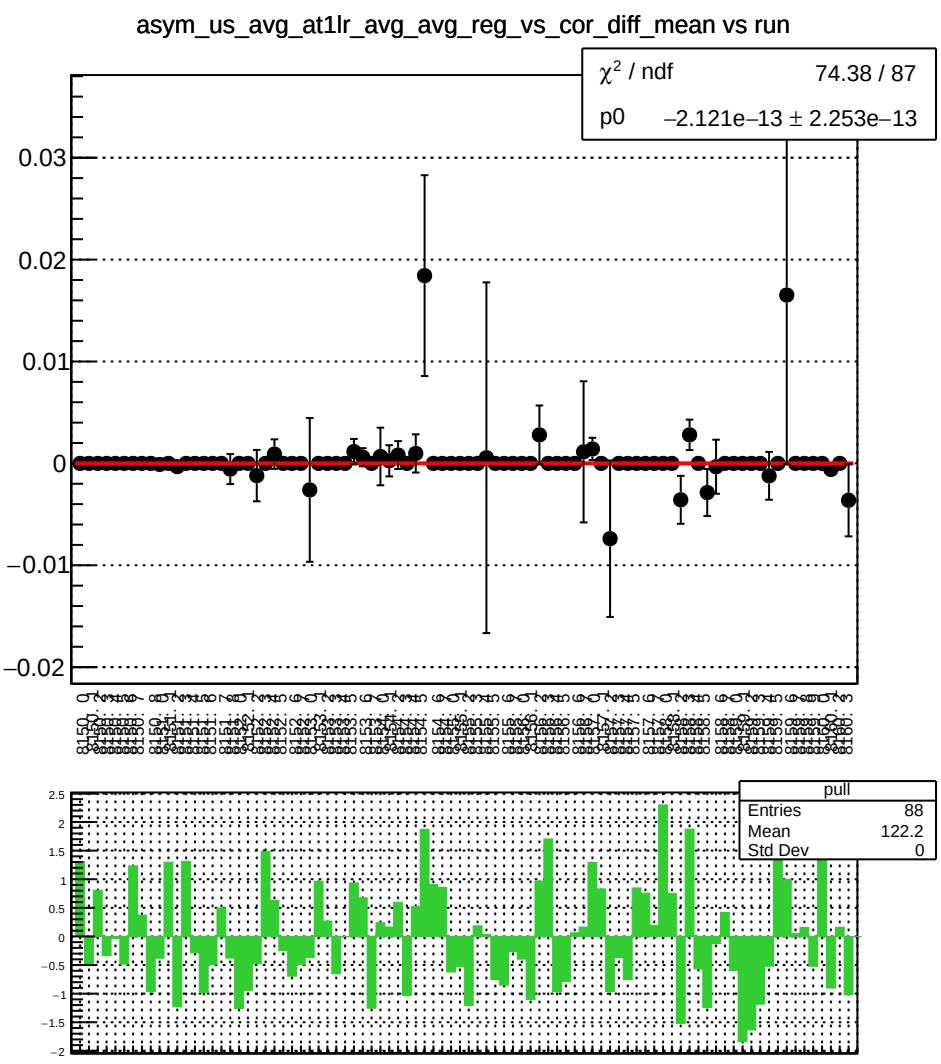

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 106.8 / 87
p0 −5510 ± 3144
100
50
0
−50
−100
pull
Entries 88
Mean −3177
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.000698
Std Dev 1.102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

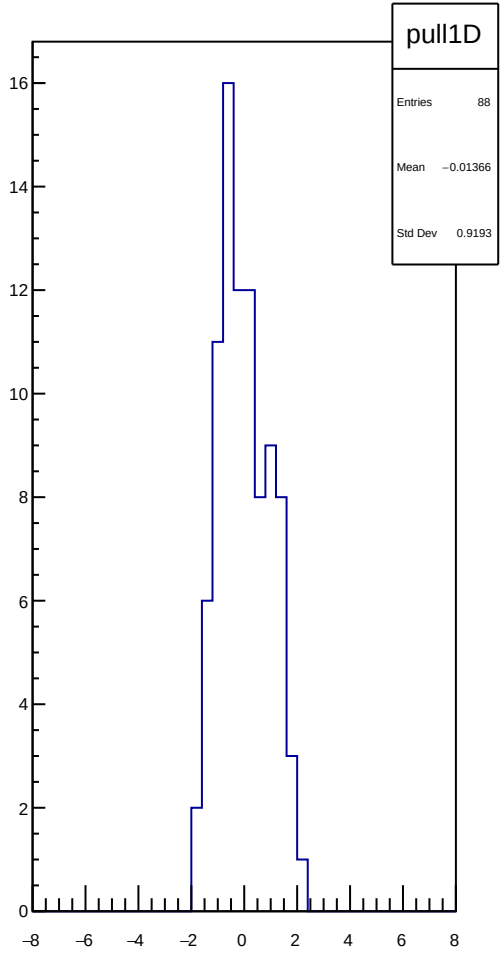

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1760 / 87
p0 2877 ± 2.223
3200
3100
3000
2900
2800
2700
2600

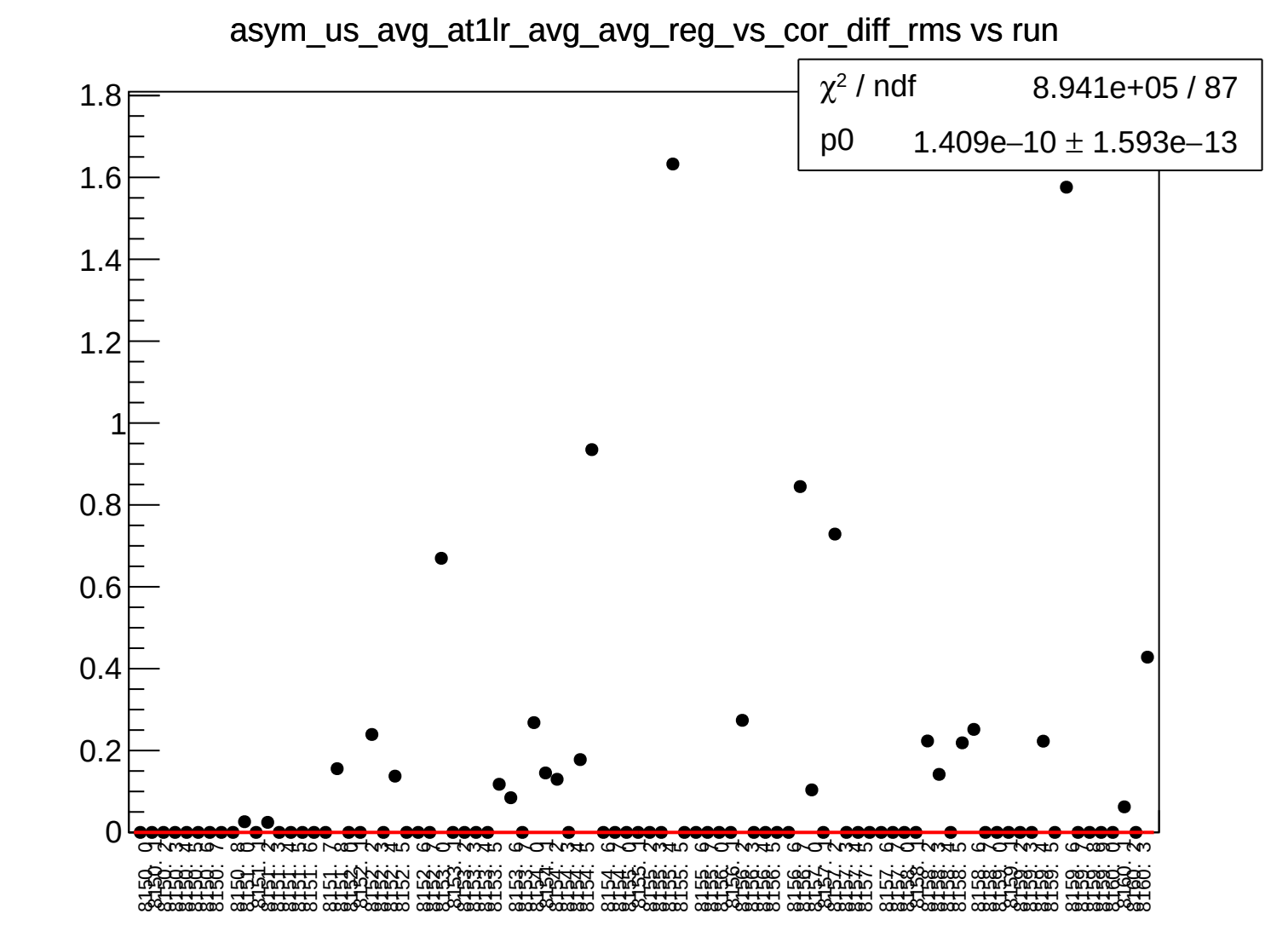

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 79.47 / 87
p0 1784 ± 3945
100
50
0
−50
−100
pull
Entries 88
Mean −738
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

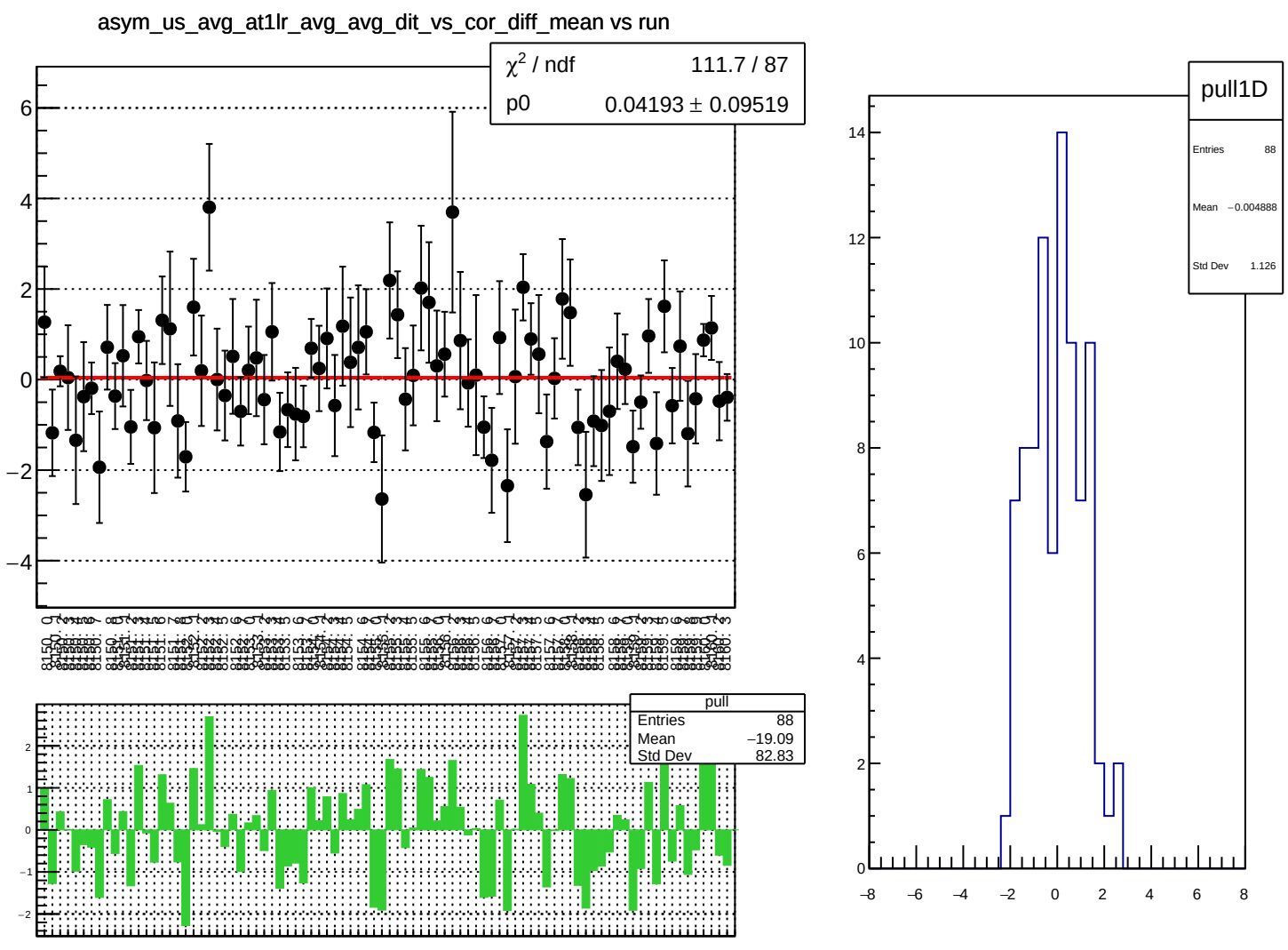

pull1D
Entries 88
Mean −0.003778
Std Dev 0.9503
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

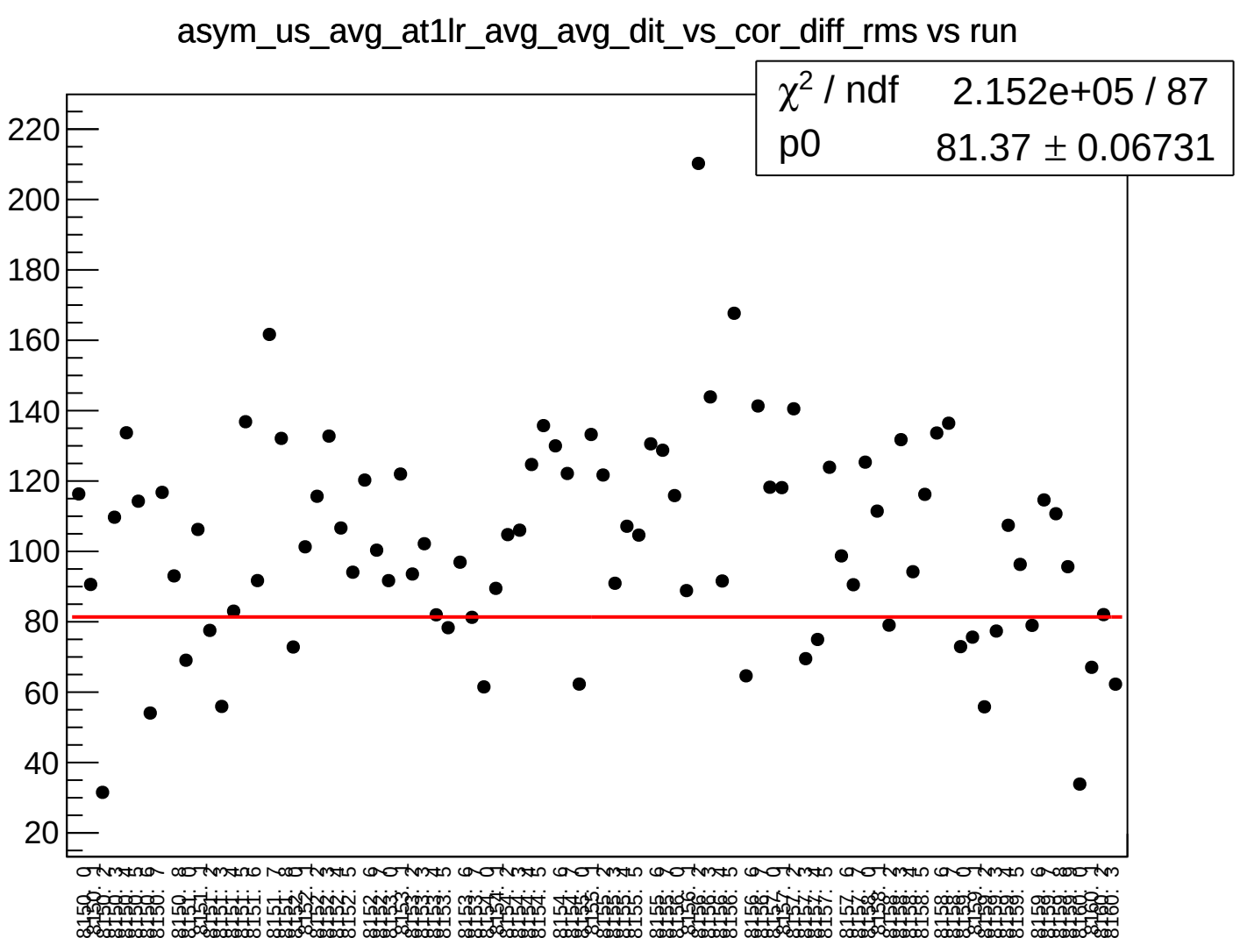

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1341 / 87
p0 3610 ± 2.79
3800
3700
3600
3500
3400
3300

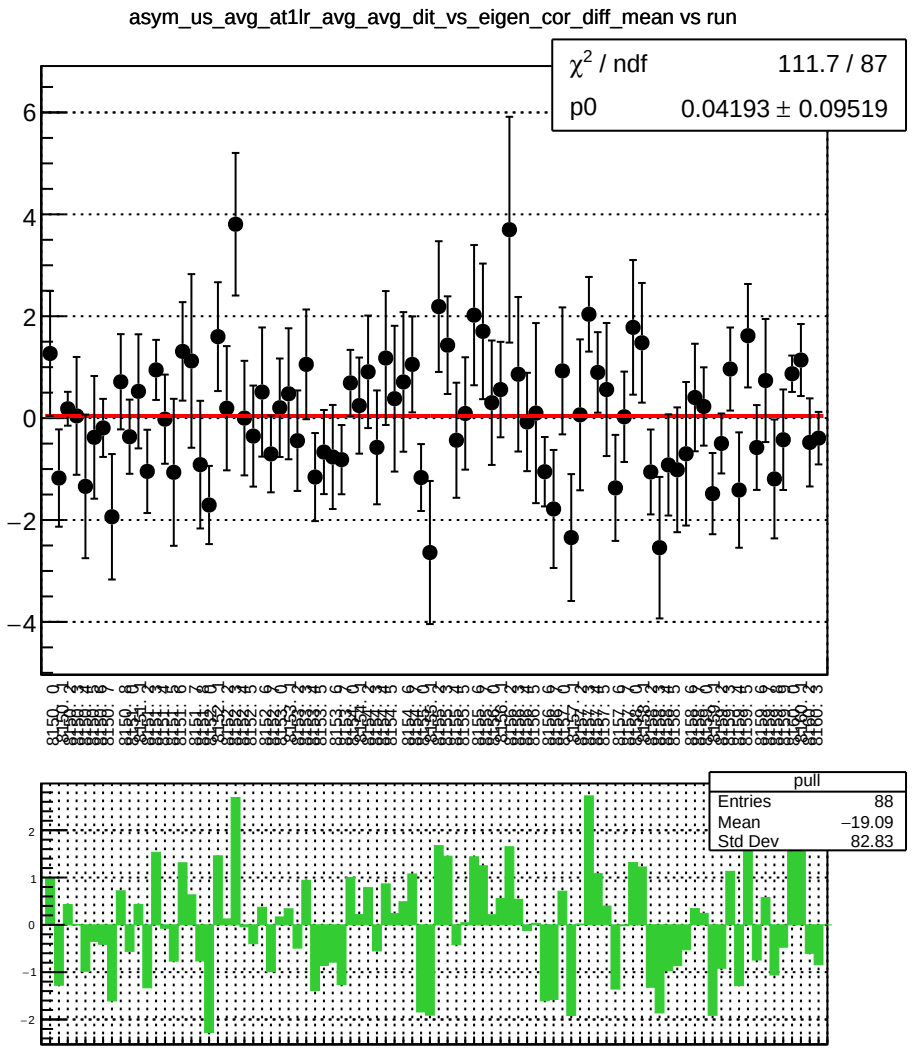

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.38 / 87
p0 −2.121e−13 ± 2.253e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 122.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

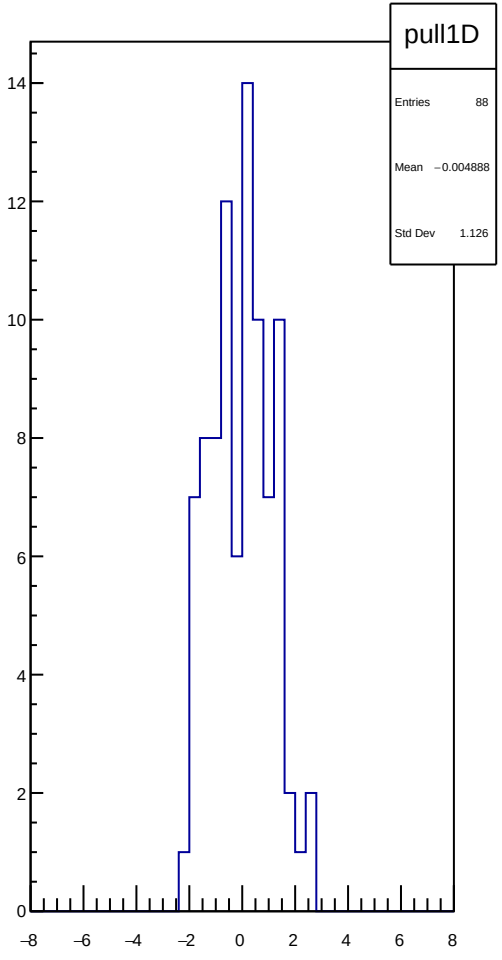

pull1D
Entries 88
Mean −0.01366
Std Dev 0.9193
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

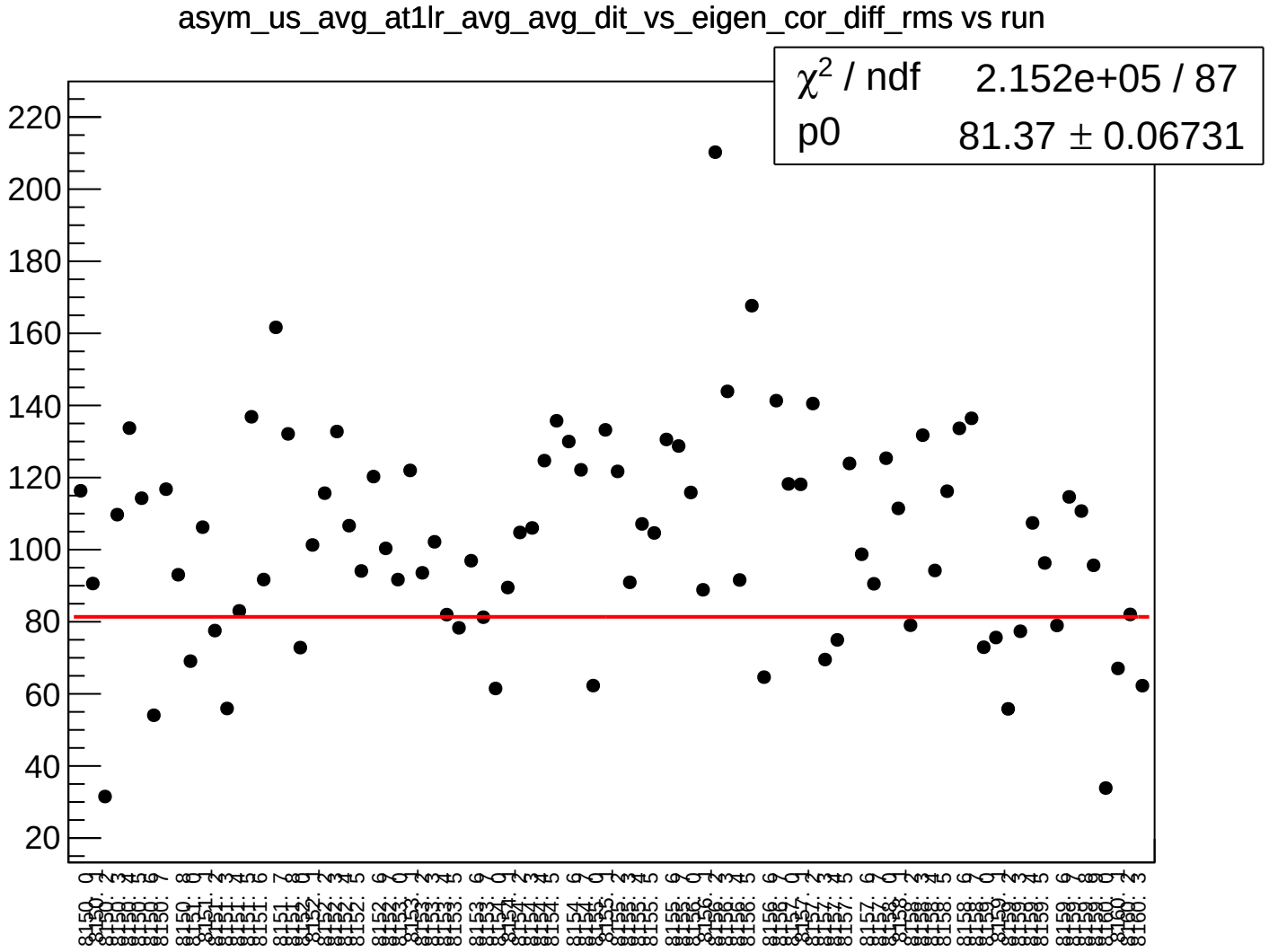

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.941e+05 / 87
p0 1.409e−10 ± 1.593e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

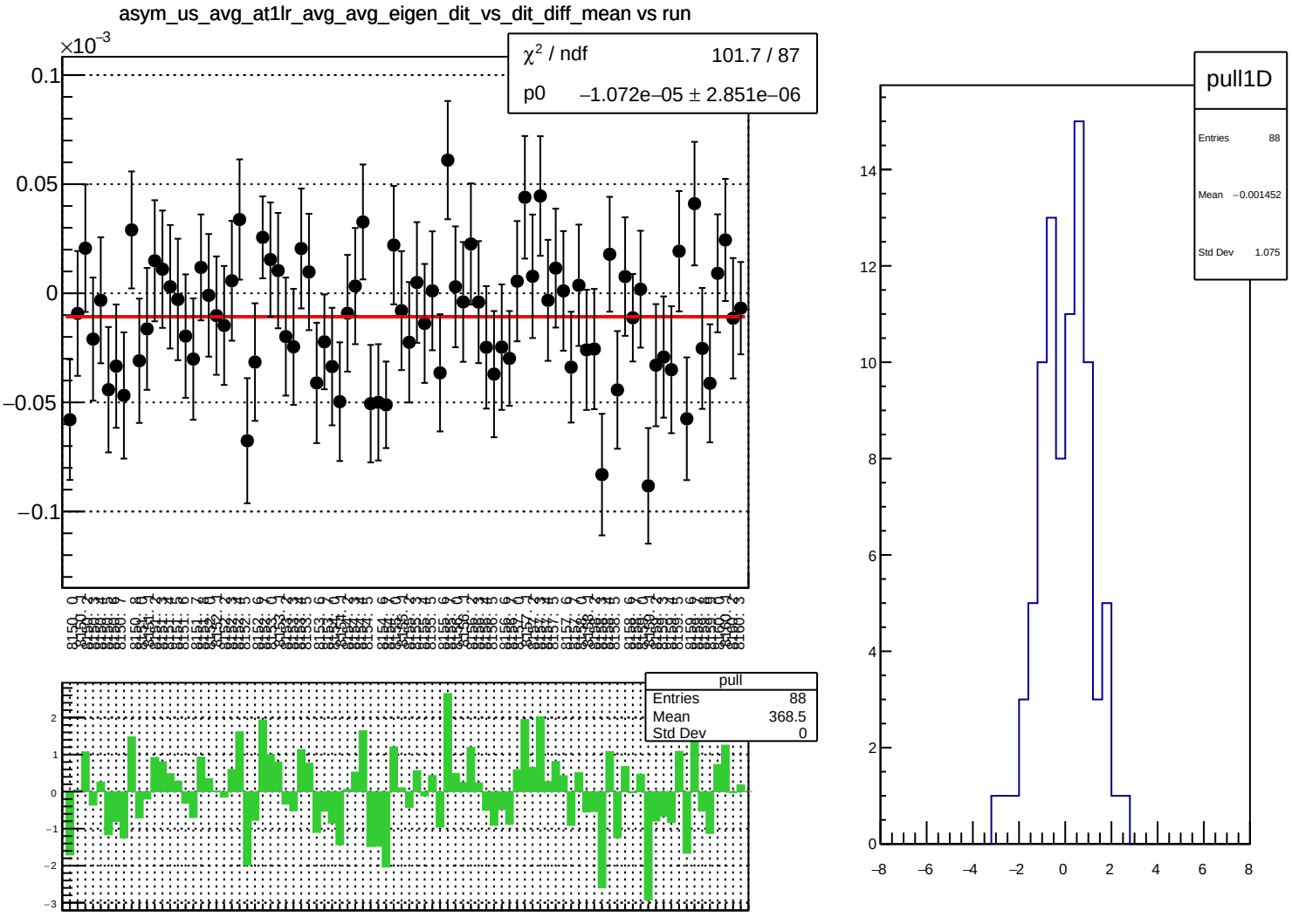

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 111.7 / 87
p0 0.04193 ± 0.09519
pull
Entries 88
Mean −19.09
Std Dev 82.83
pull1D
Entries 88
Mean −0.004888
Std Dev 1.126

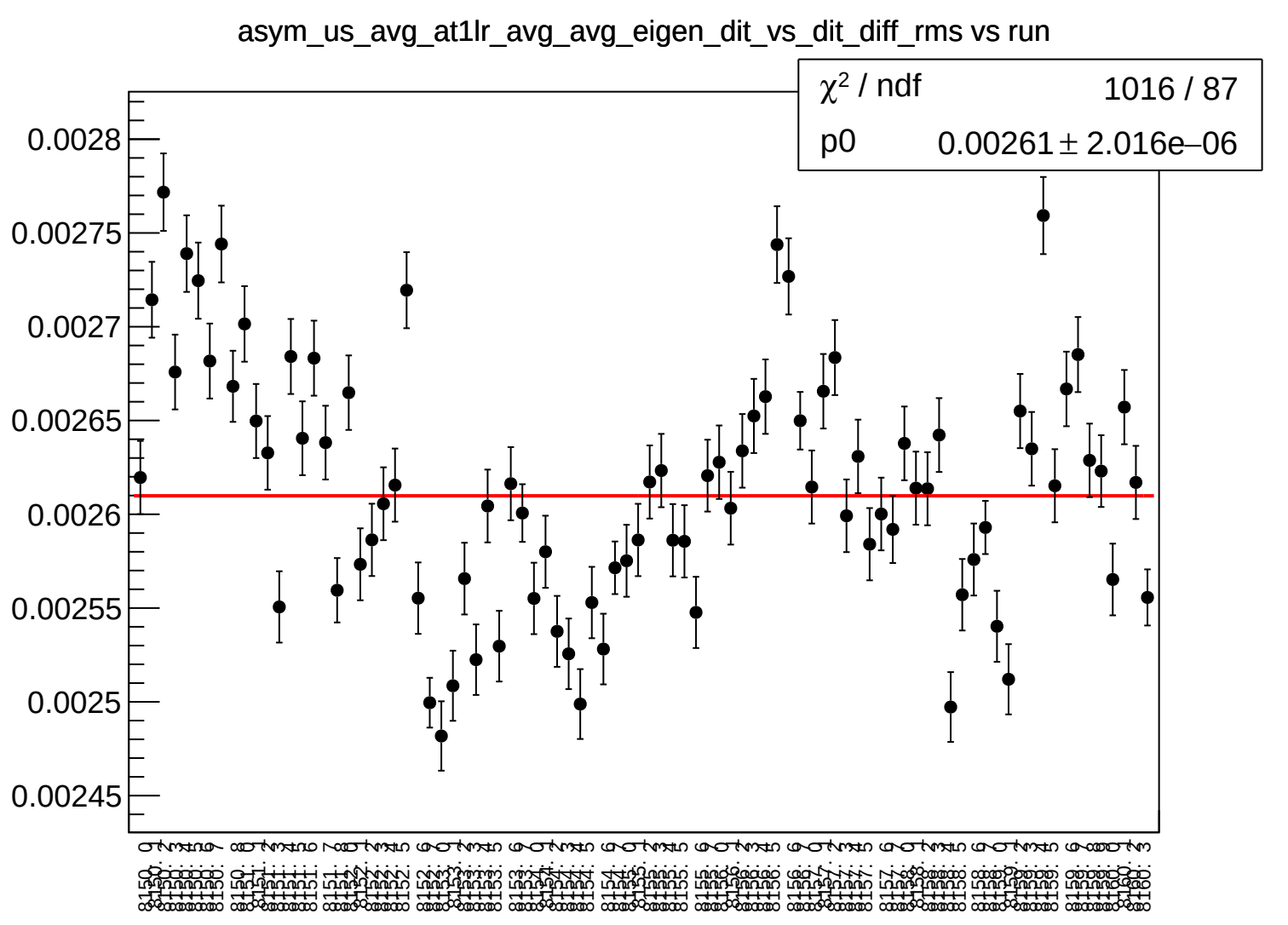

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.152e+05 / 87
p0 81.37 ± 0.06731
220
200
180
160
140
120
100
80
60
40
20

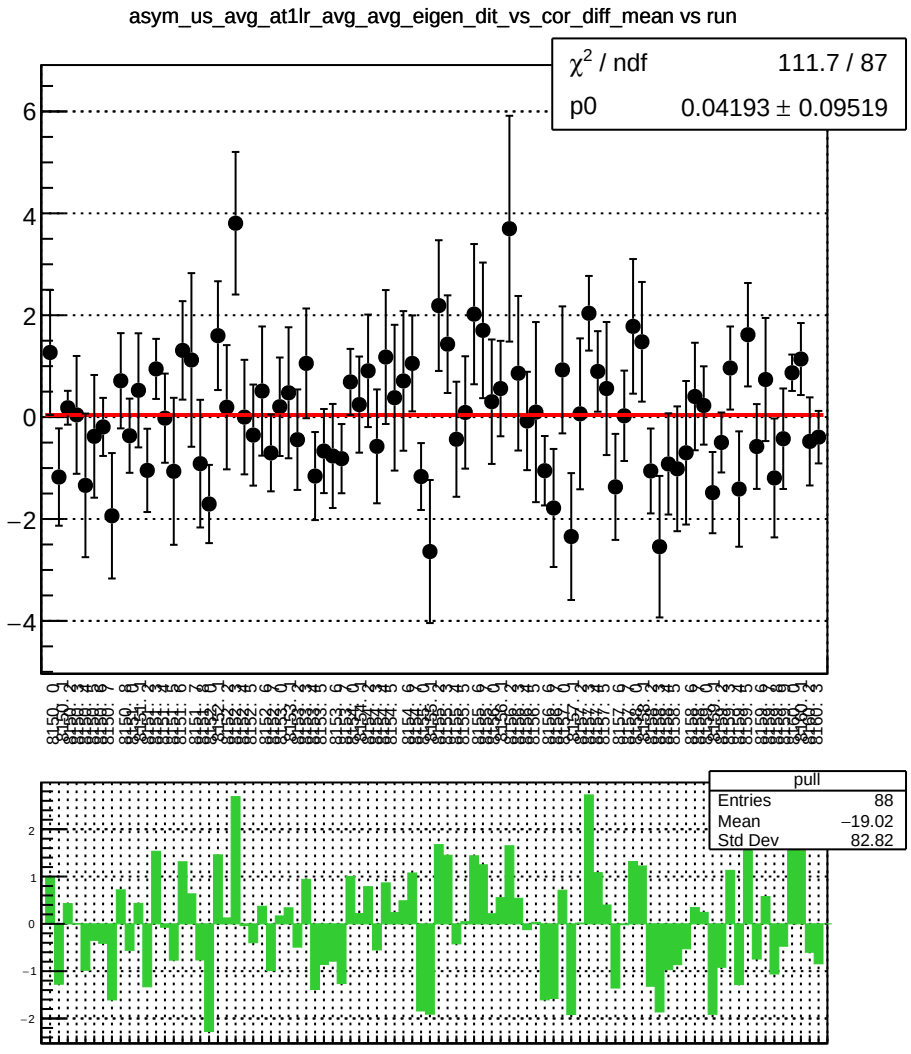

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.7 / 87
p0 0.04193 ± 0.09519
pull
Entries 88
Mean −19.09
Std Dev 82.83

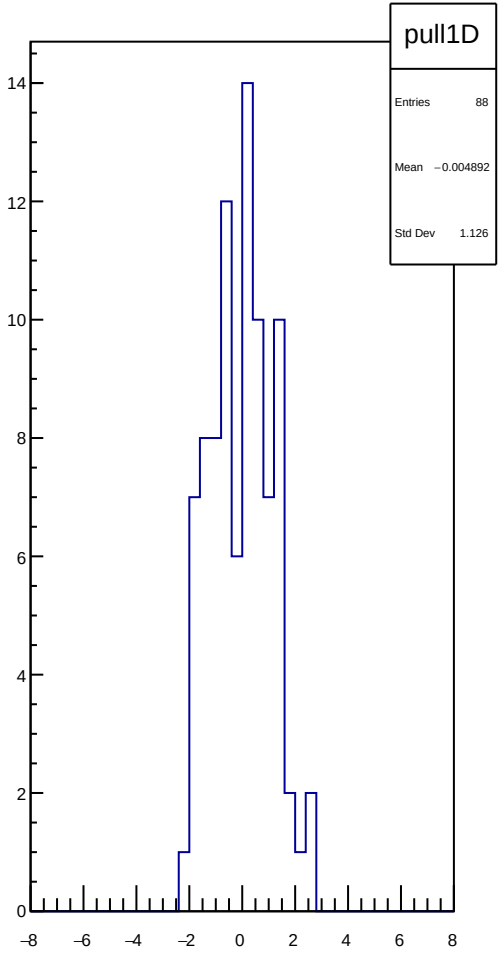

pull1D
Entries 88
Mean −0.004888
Std Dev 1.126

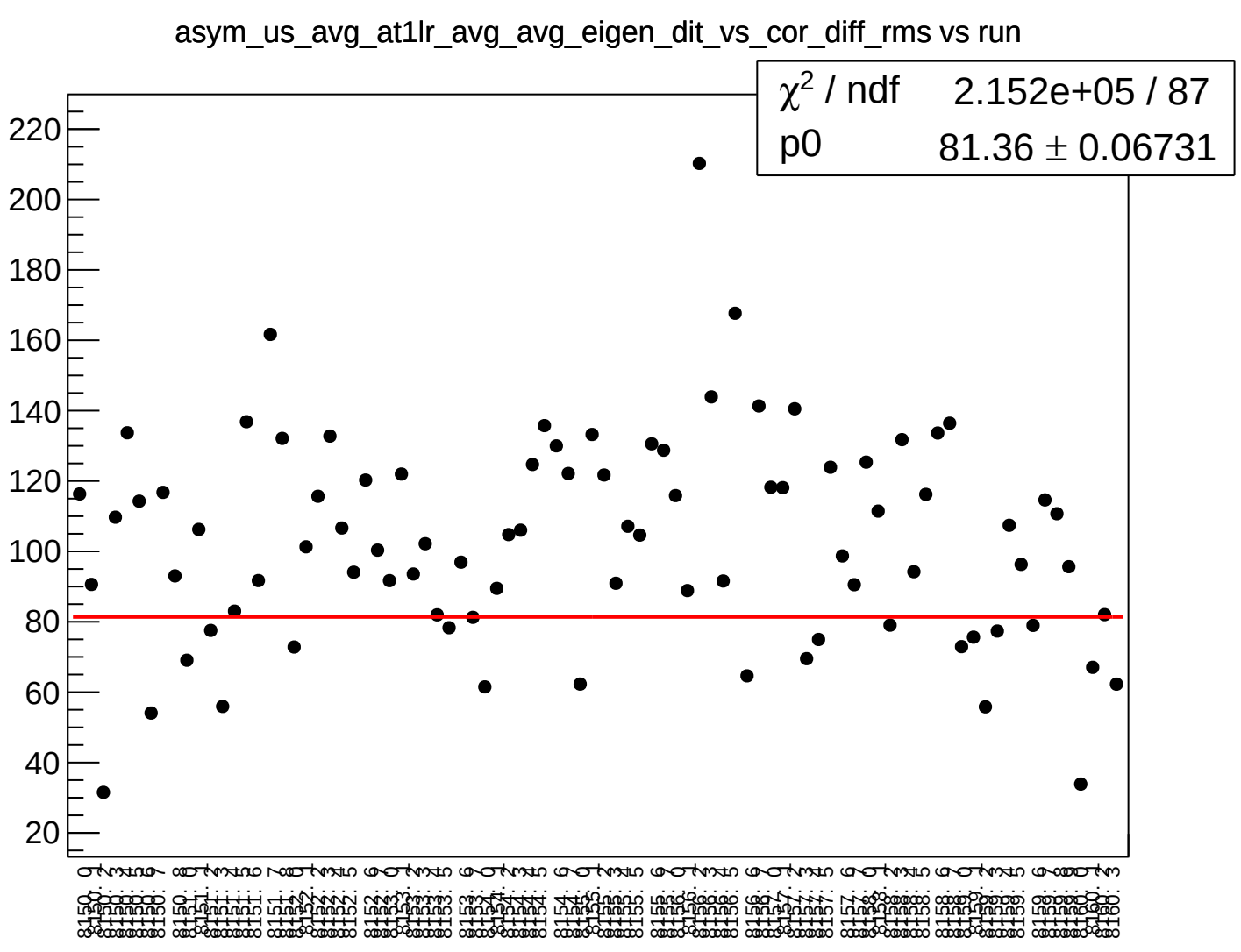

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.152e+05 / 87
p0 81.37 ± 0.06731
220
200
180
160
140
120
100
80
60
40
20

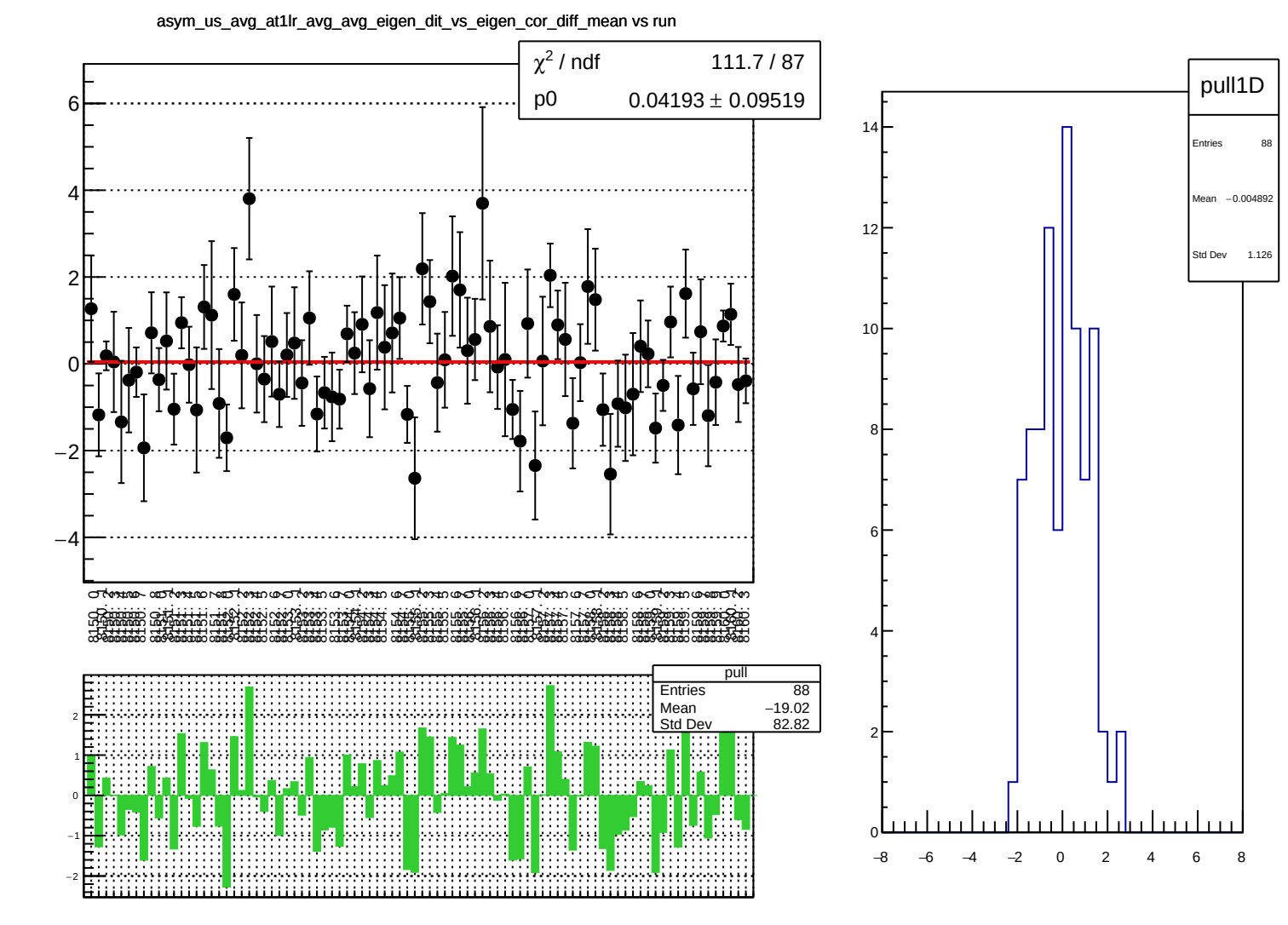

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.7 / 87
p0 −1.072e−05 ± 2.851e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 368.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.001452
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

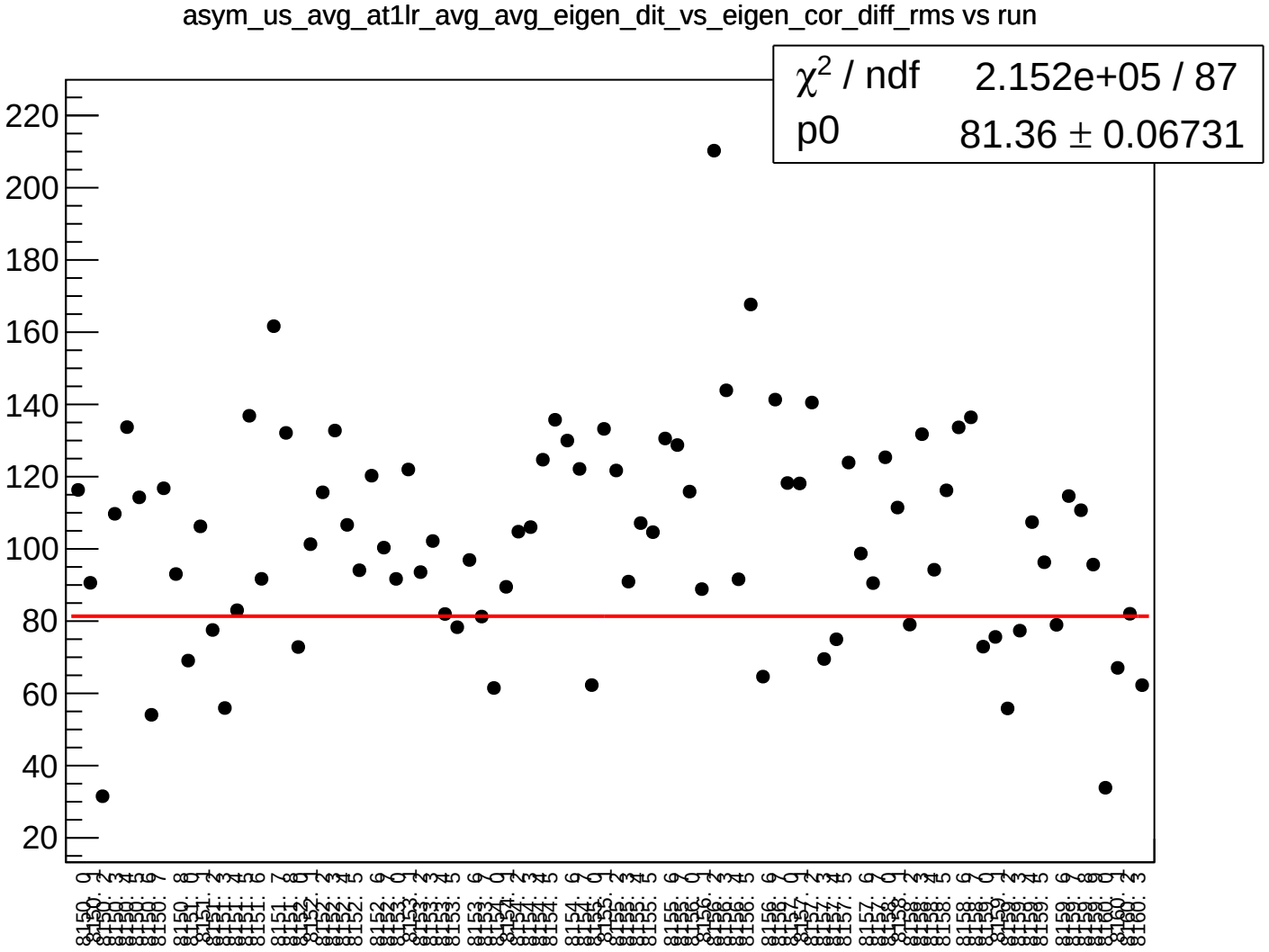

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1016 / 87
p0 0.00261 ± 2.016e–06
0.0028
0.00275
0.0027
0.00265
0.0026
0.00255
0.0025
0.00245

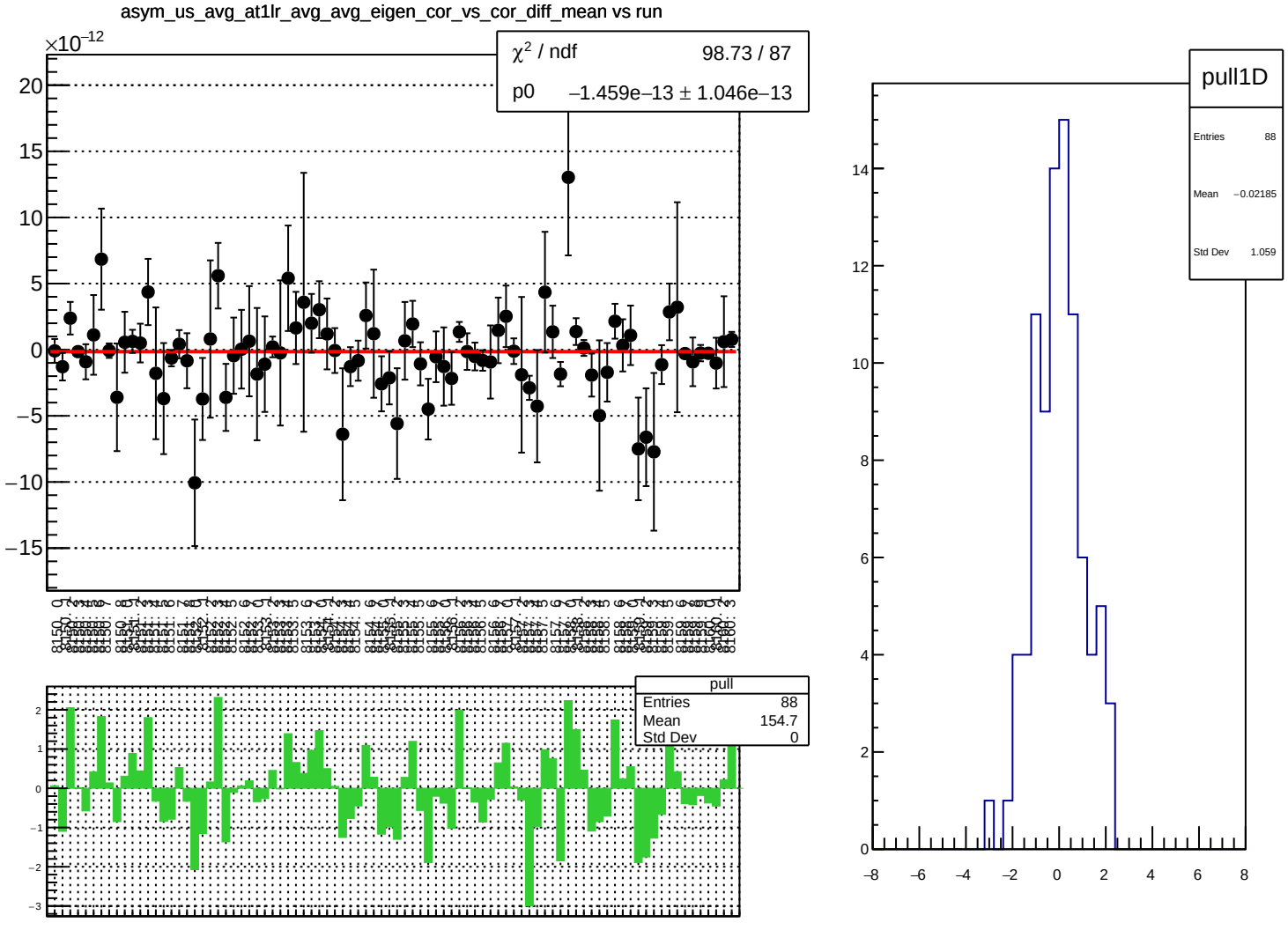

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.7 / 87
p0 0.04193 ± 0.09519
pull
Entries 88
Mean −19.02
Std Dev 82.82

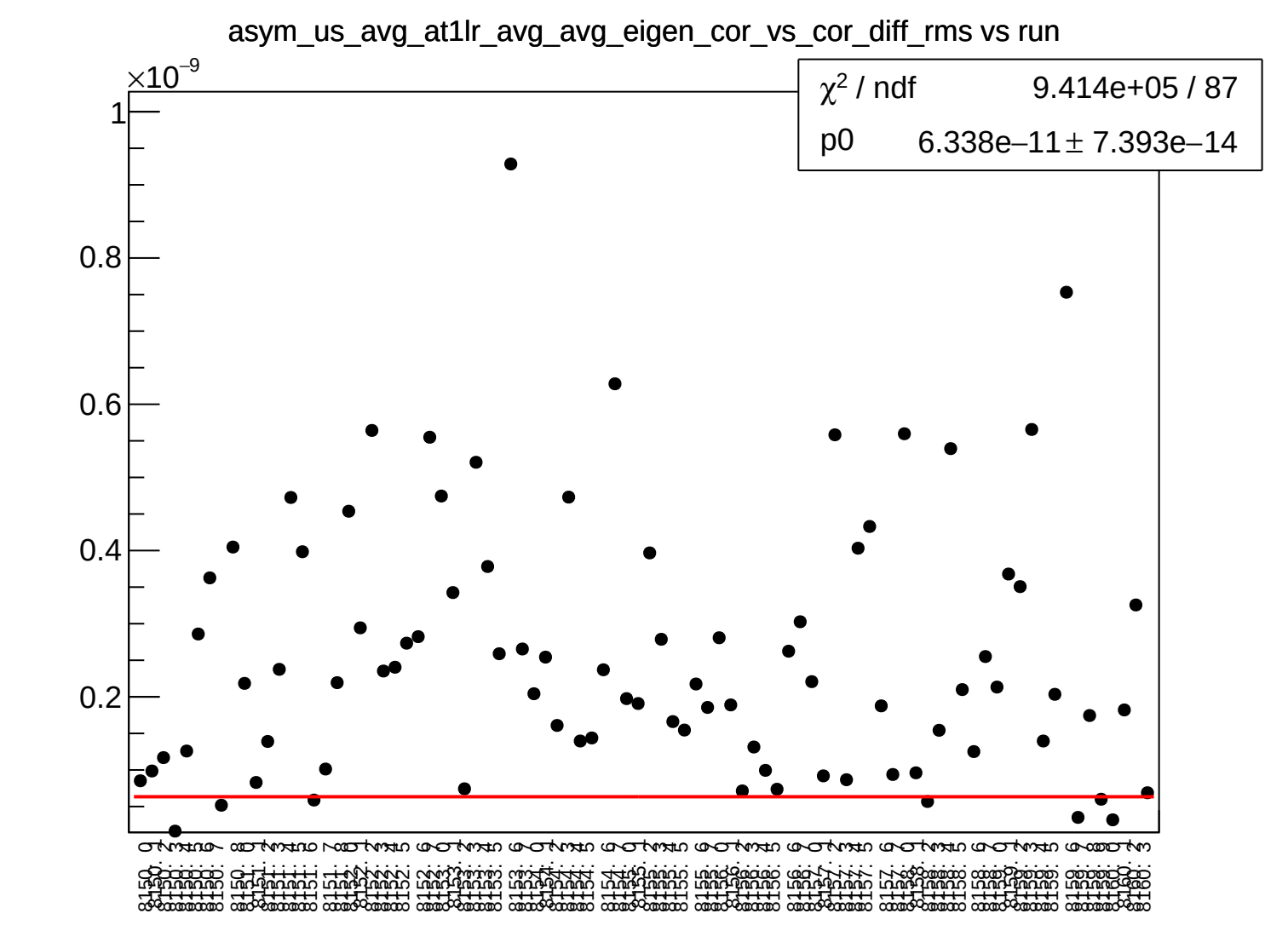

pull1D
Entries 88
Mean −0.004892
Std Dev 1.126

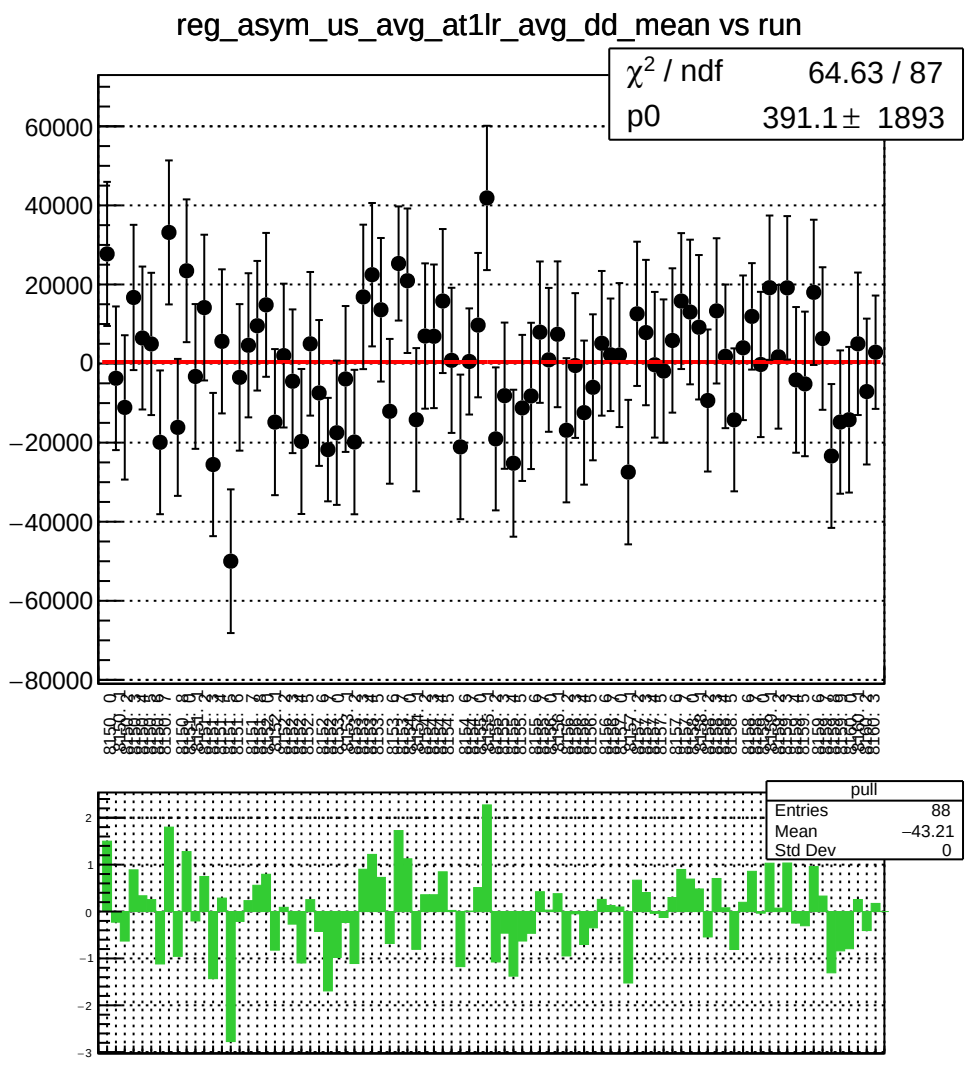

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.152e+05 / 87
p0 81.36 ± 0.06731
220
200
180
160
140
120
100
80
60
40
20

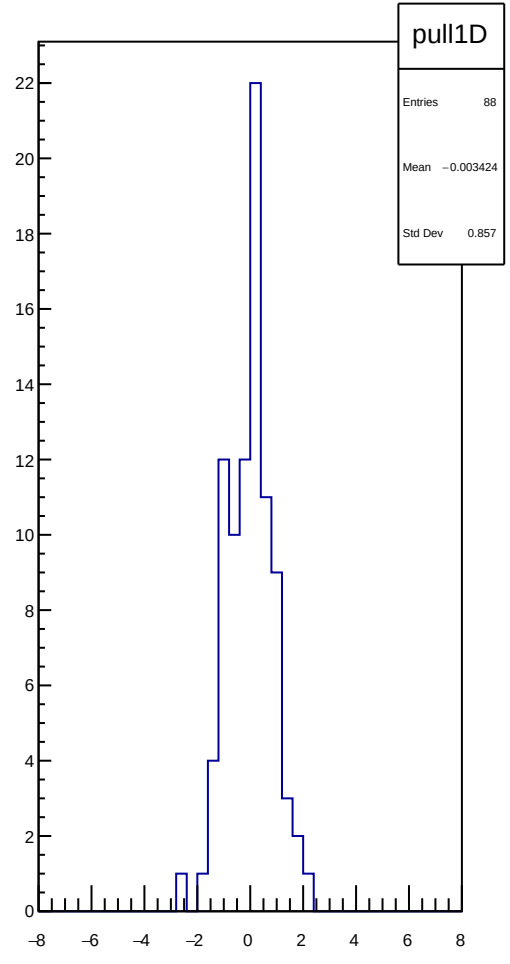

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.7 / 87
p0 0.04193 ± 0.09519
pull
Entries 88
Mean −19.02
Std Dev 82.82
pull1D
Entries 88
Mean −0.004892
Std Dev 1.126

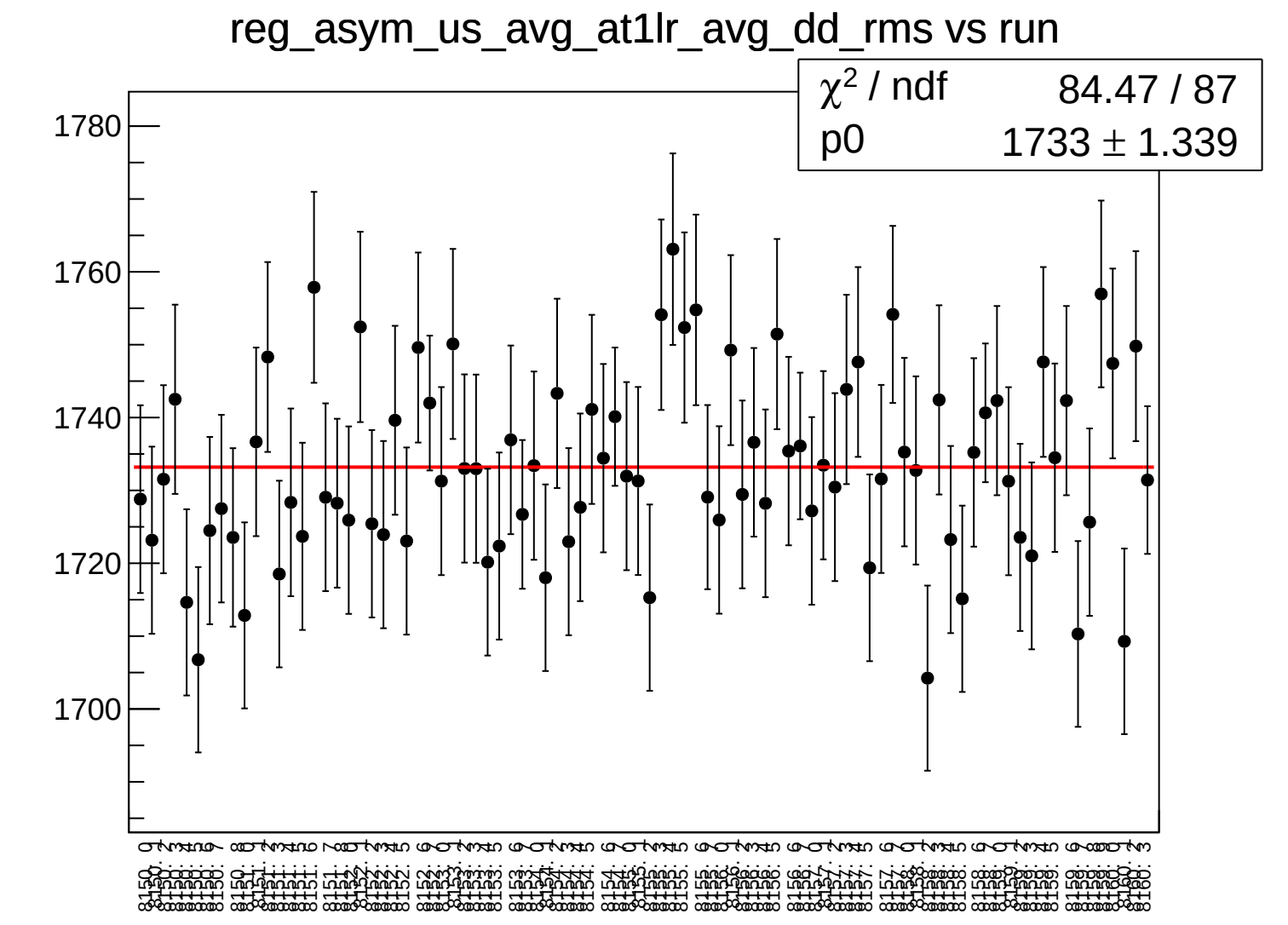

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.152e+05 / 87
p0 81.36 ± 0.06731
220
200
180
160
140
120
100
80
60
40
20

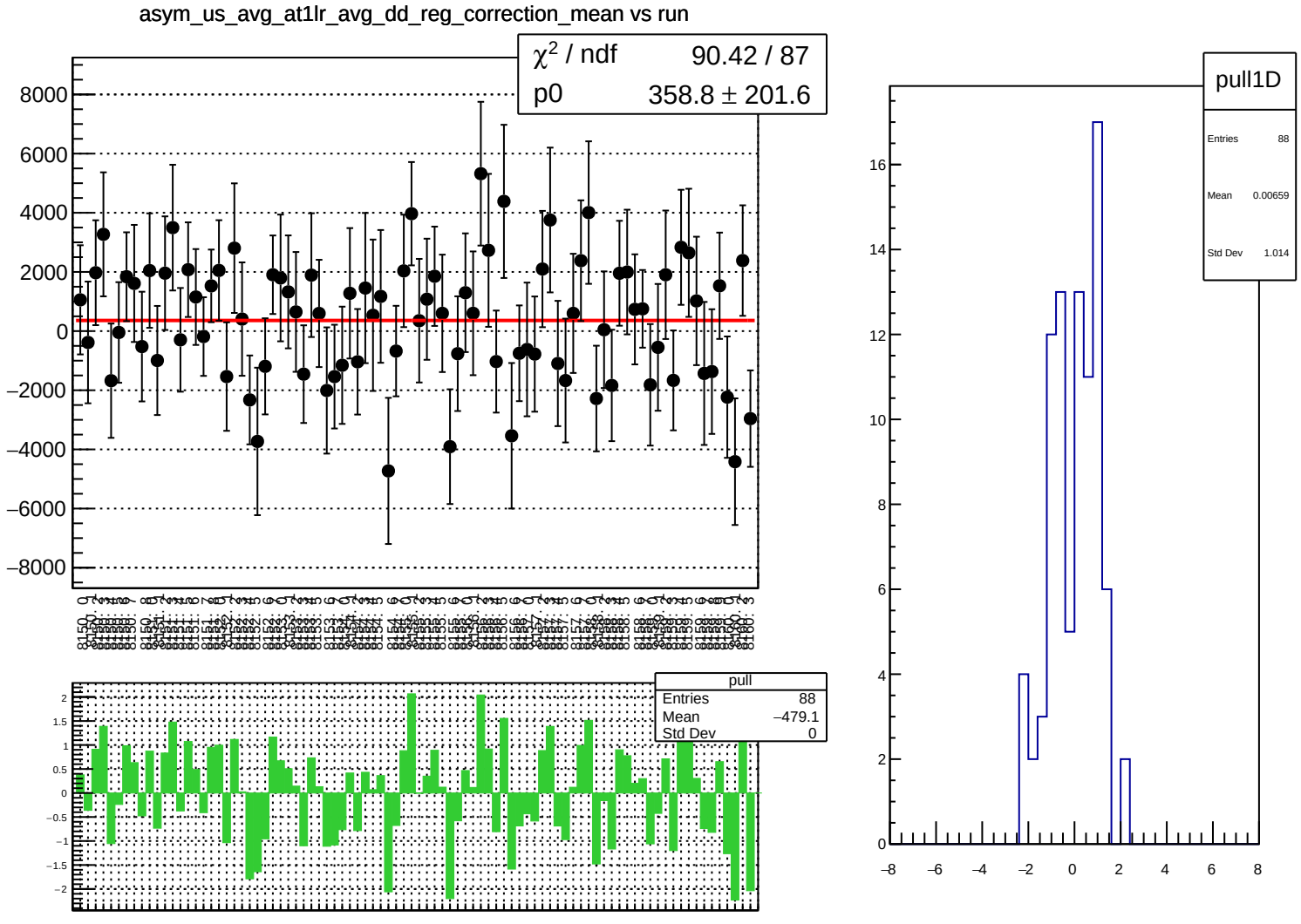

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.73 / 87
p0 −1.459e−13 ± 1.046e−13
pull
Entries 88
Mean 154.7
Std Dev 0
pull1D
Entries 88
Mean −0.02185
Std Dev 1.059

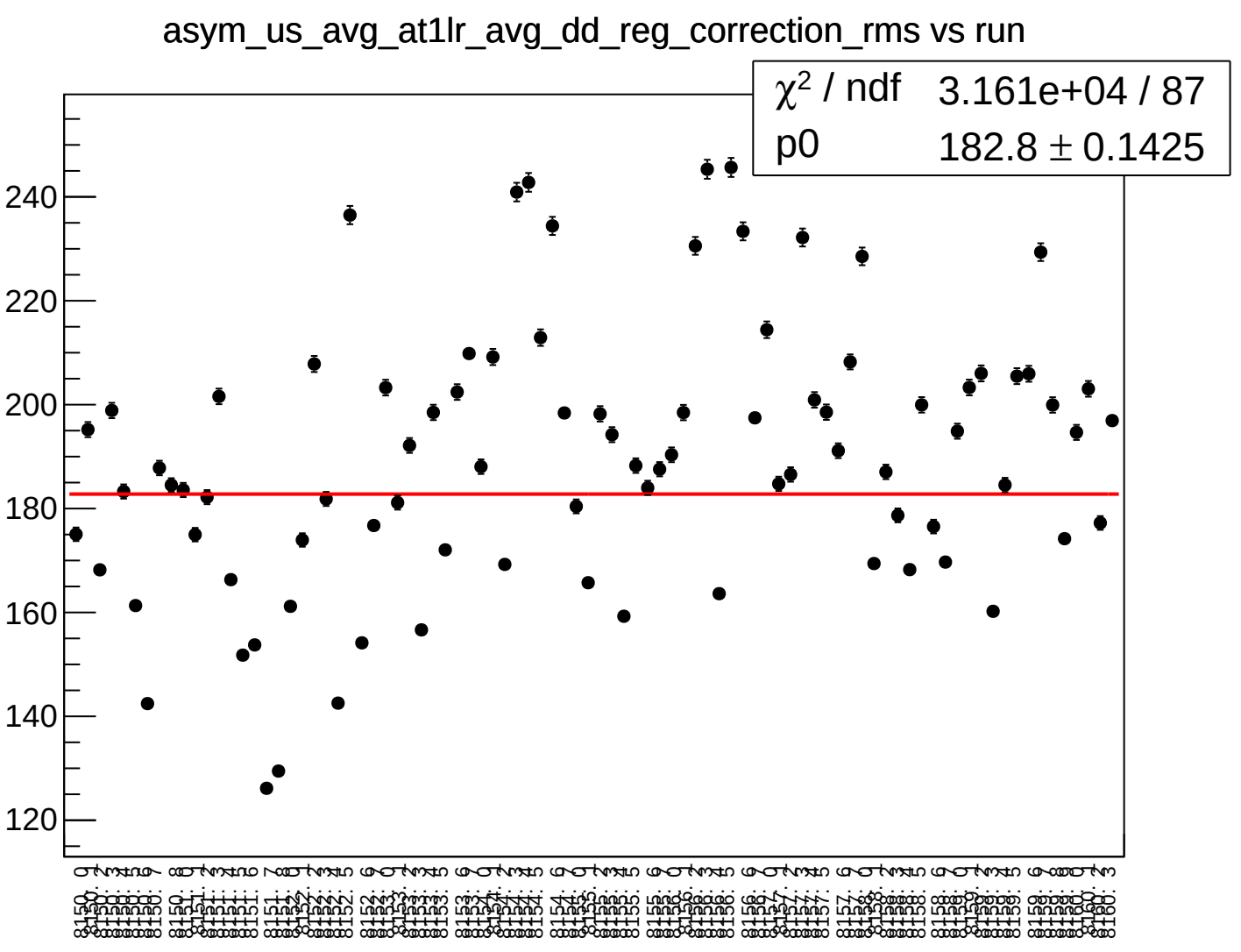

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.414e+05 / 87
p0 6.338e−11 ± 7.393e−14
1
0.8
0.6
0.4
0.2

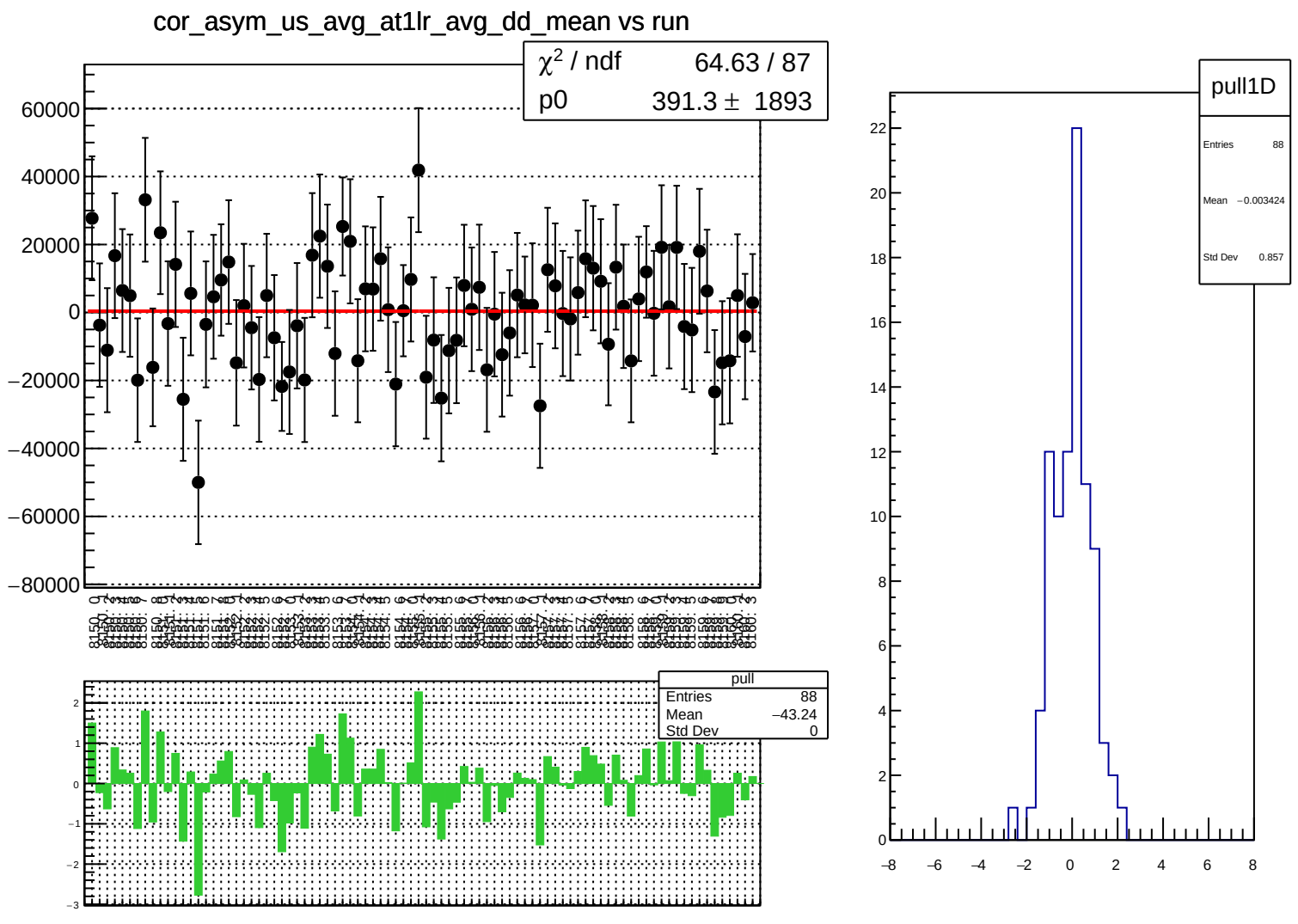

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 64.63 / 87
p0 391.1 ± 1893
pull
Entries 88
Mean −43.21
Std Dev 0

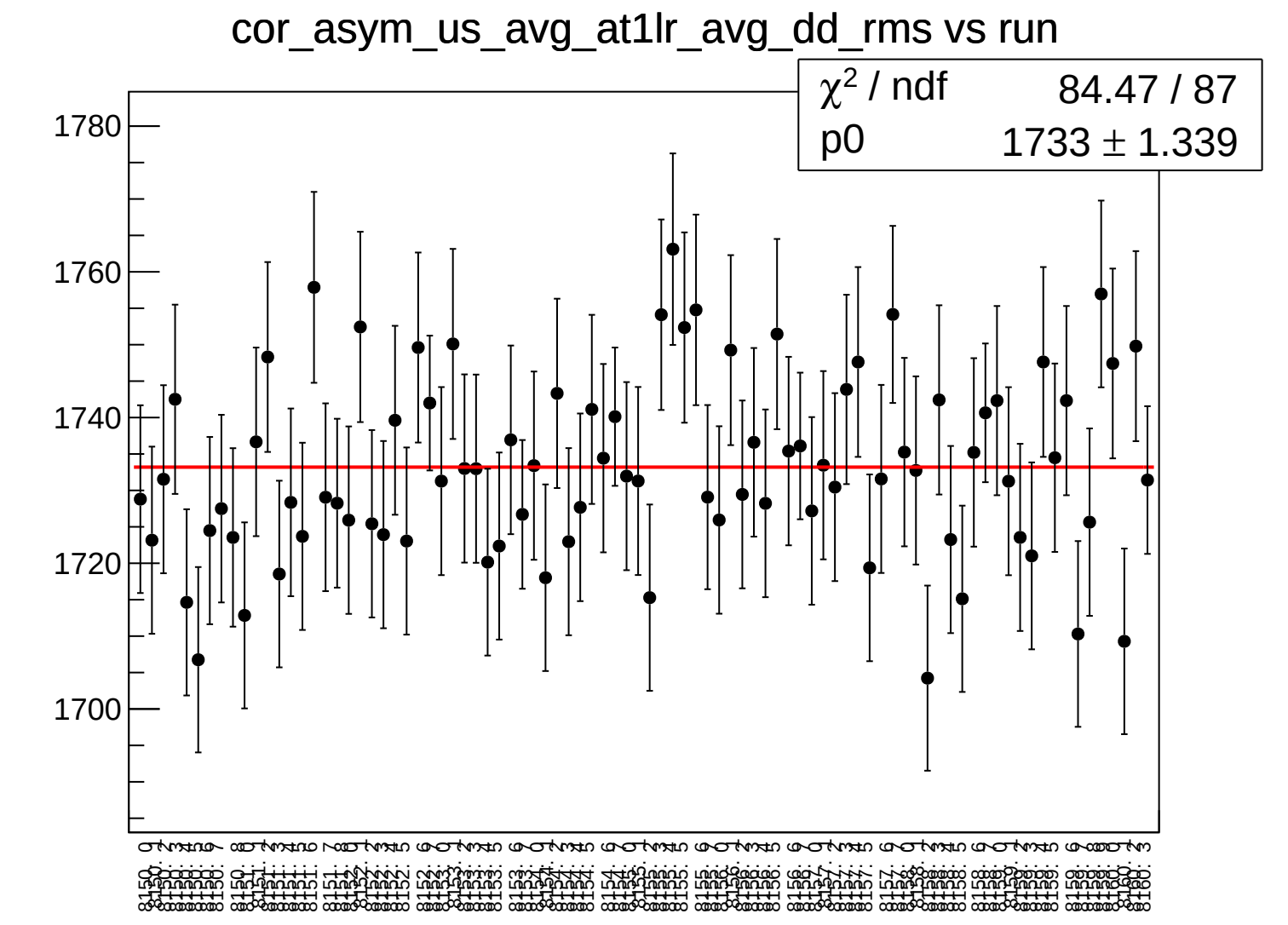

pull1D
Entries 88
Mean −0.003424
Std Dev 0.857

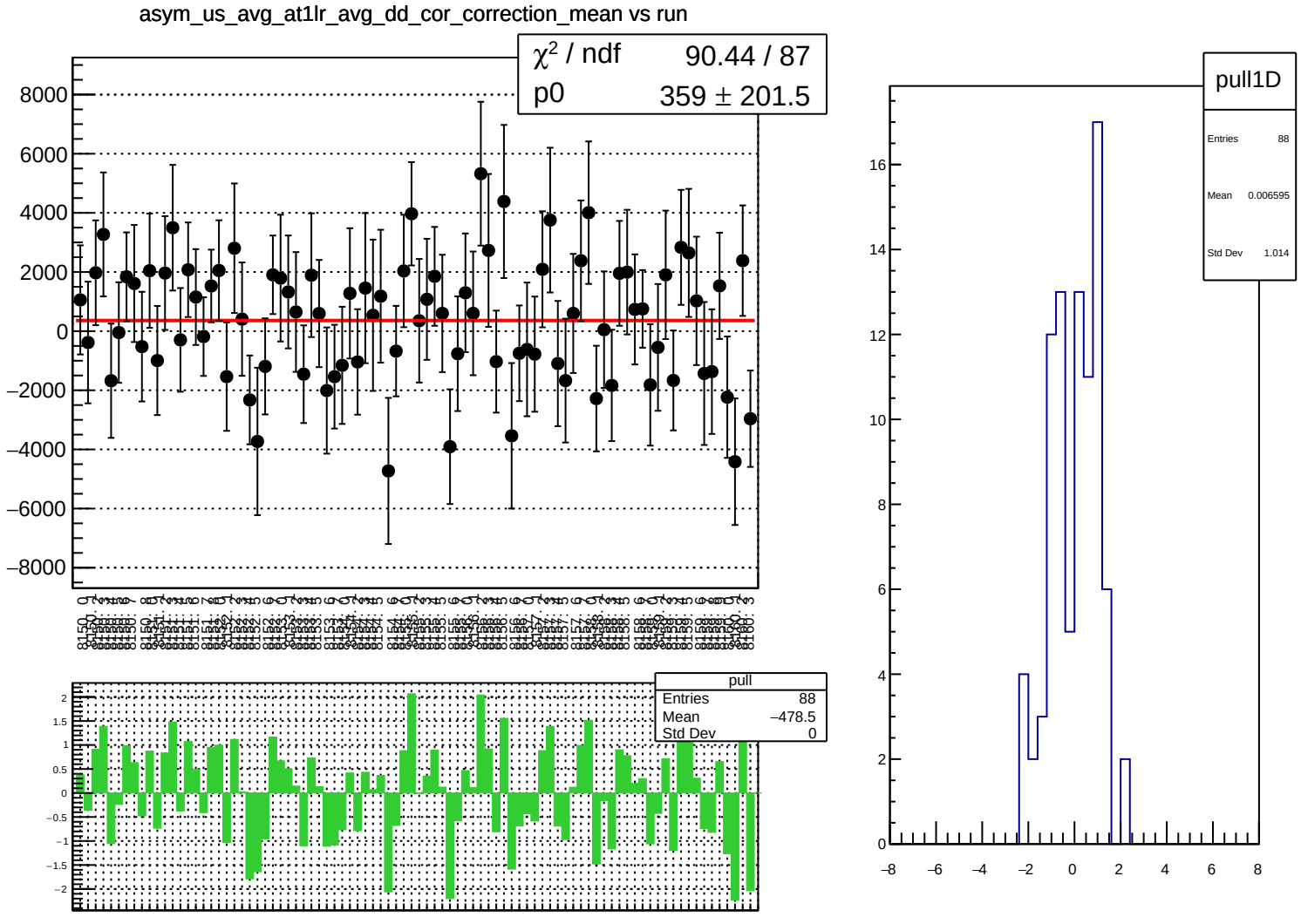

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 84.47 / 87
p0 1733 ± 1.339
1780
1760
1740
1720
1700

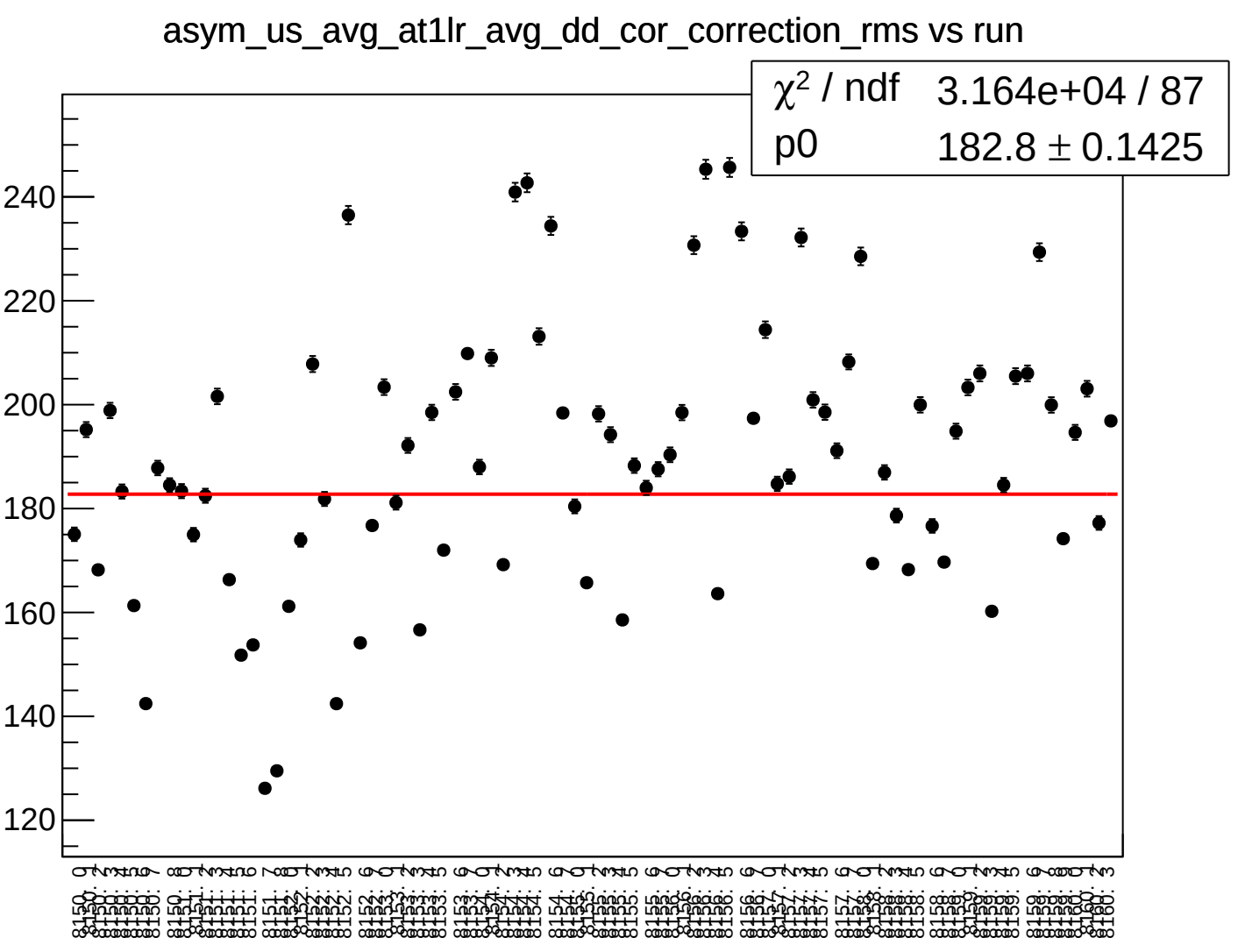

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 90.42 / 87
p0 358.8 ± 201.6
pull
Entries 88
Mean −479.1
Std Dev 0
pull1D
Entries 88
Mean 0.00659
Std Dev 1.014

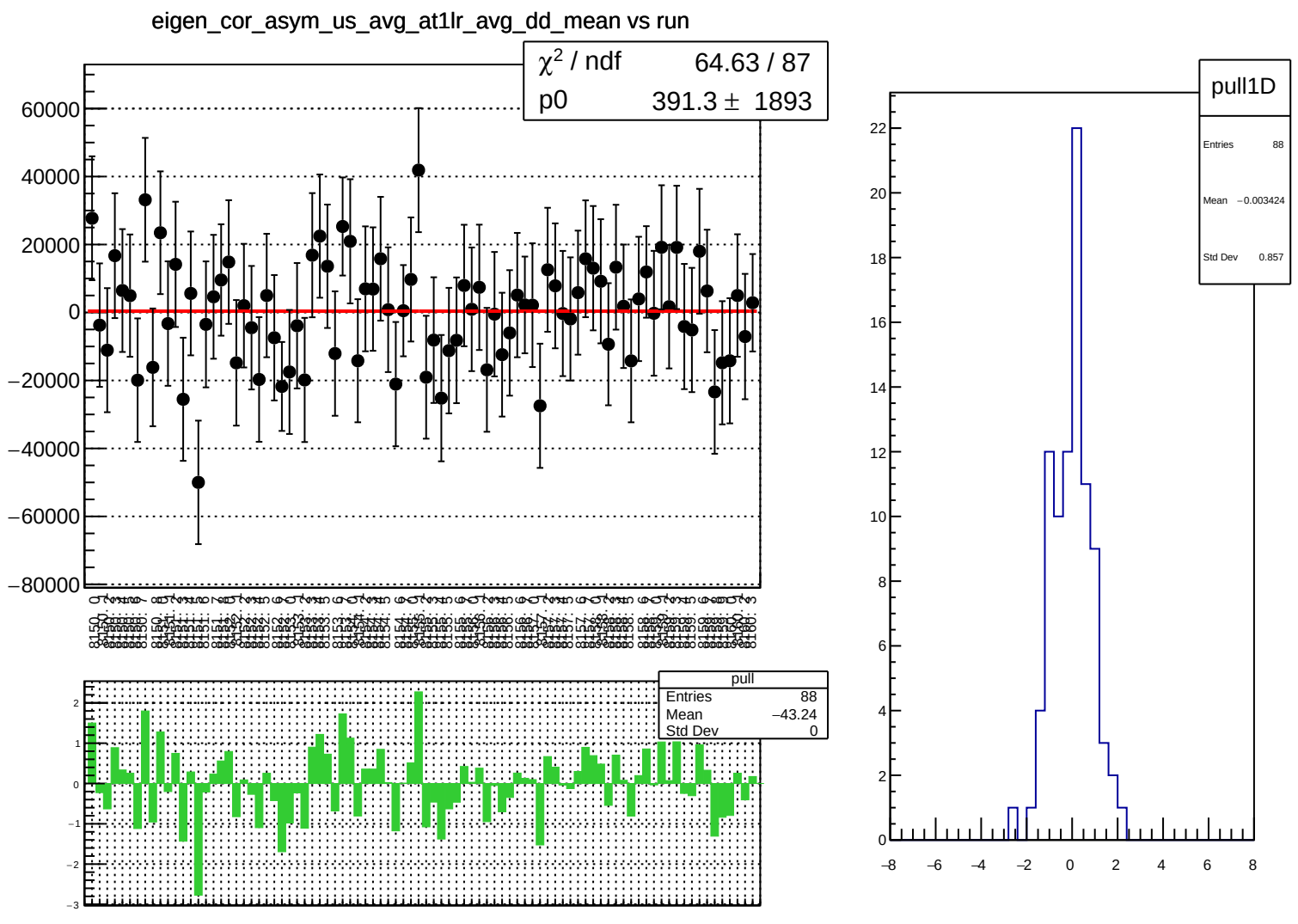

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.161e+04 / 87
p0 182.8 ± 0.1425
240
220
200
180
160
140
120

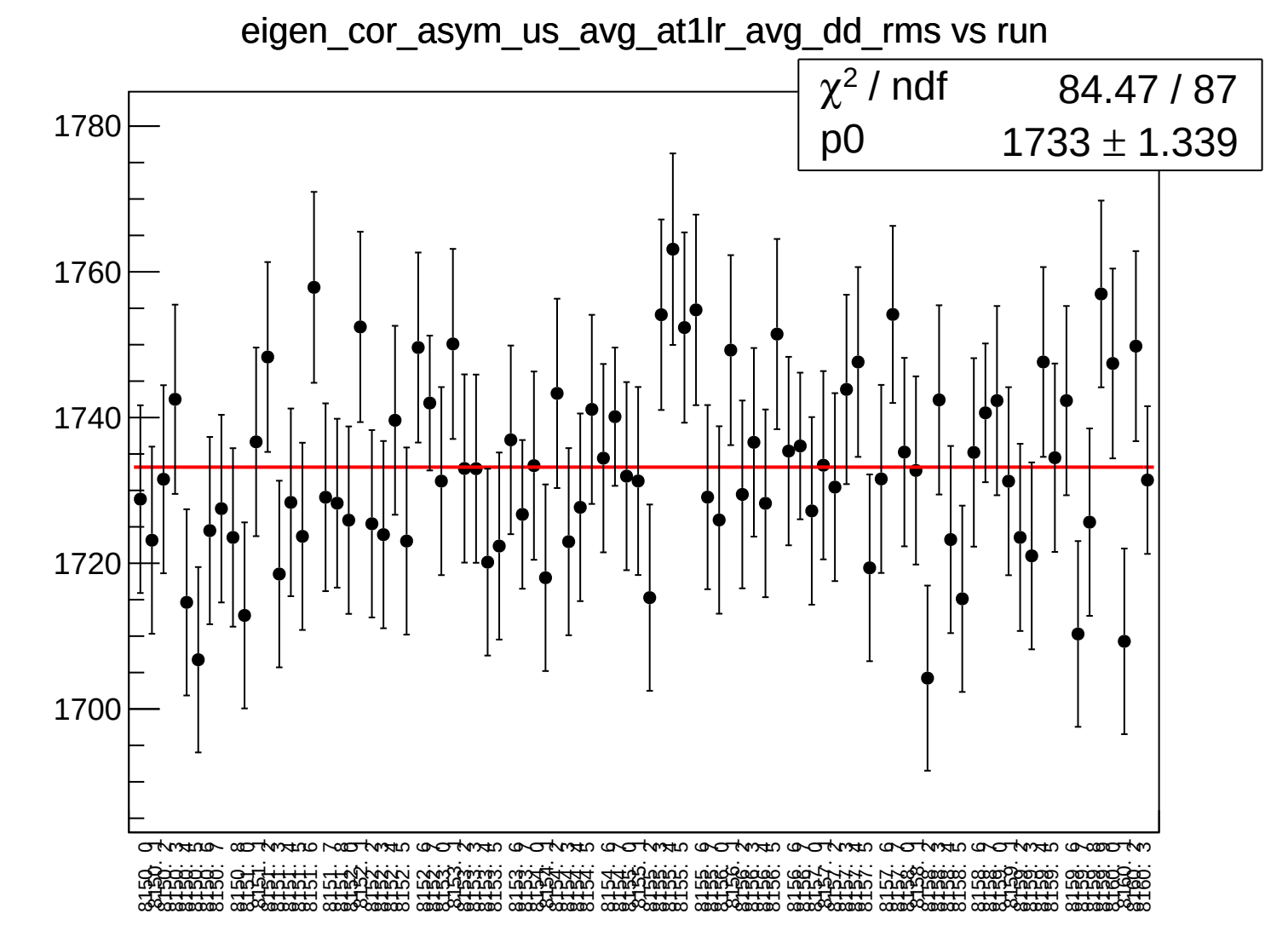

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 64.63 / 87
p0 391.3 ± 1893
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −43.24
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.003424
Std Dev 0.857
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

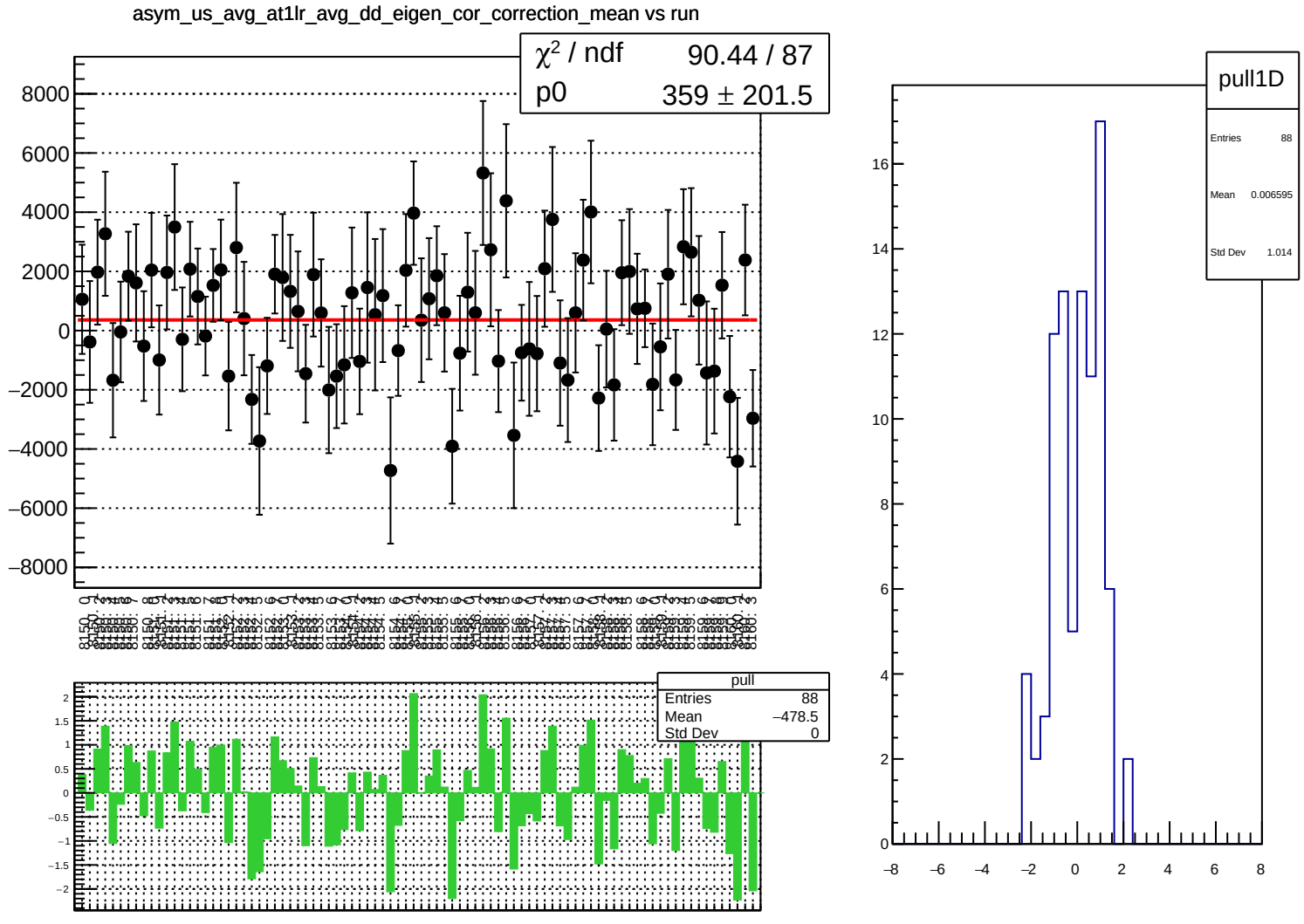

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 84.47 / 87
p0 1733 ± 1.339
1780
1760
1740
1720
1700

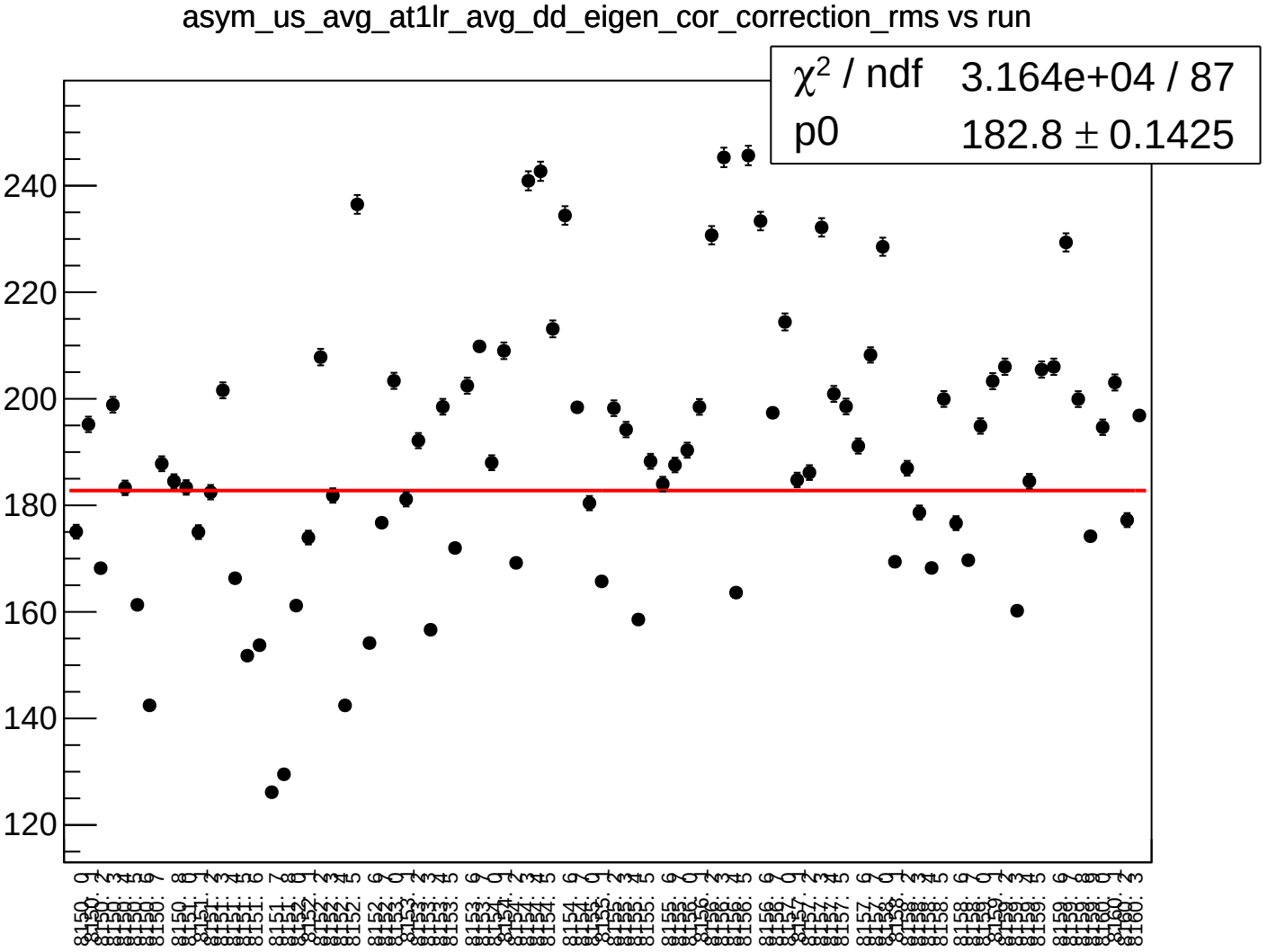

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 90.44 / 87
p0 359 ± 201.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean −478.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.006595
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

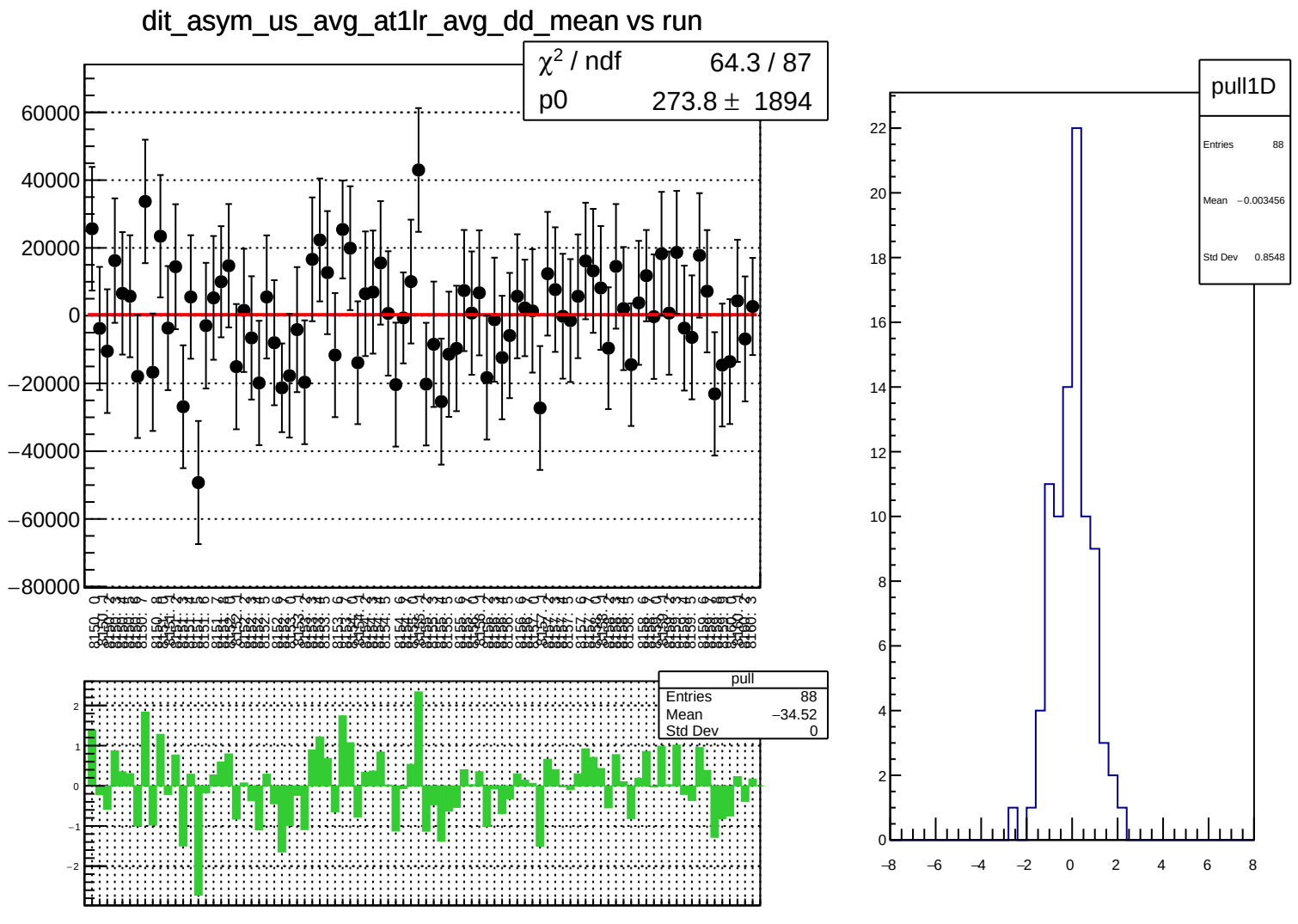

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.164e+04 / 87
p0 182.8 ± 0.1425
240
220
200
180
160
140
120

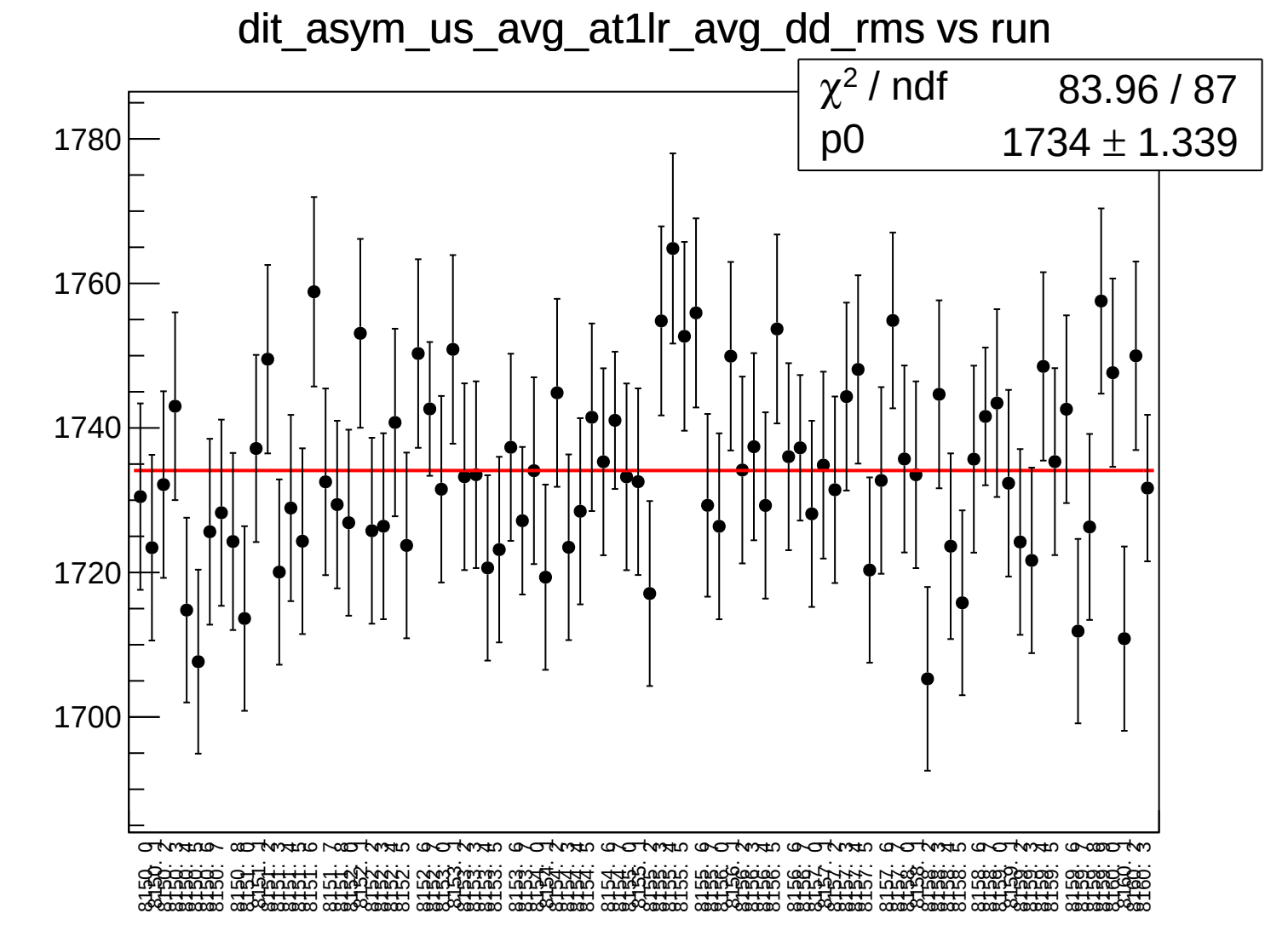

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 64.63 / 87
p0 391.3 ± 1893
pull
Entries 88
Mean −43.24
Std Dev 0
pull1D
Entries 88
Mean −0.003424
Std Dev 0.857

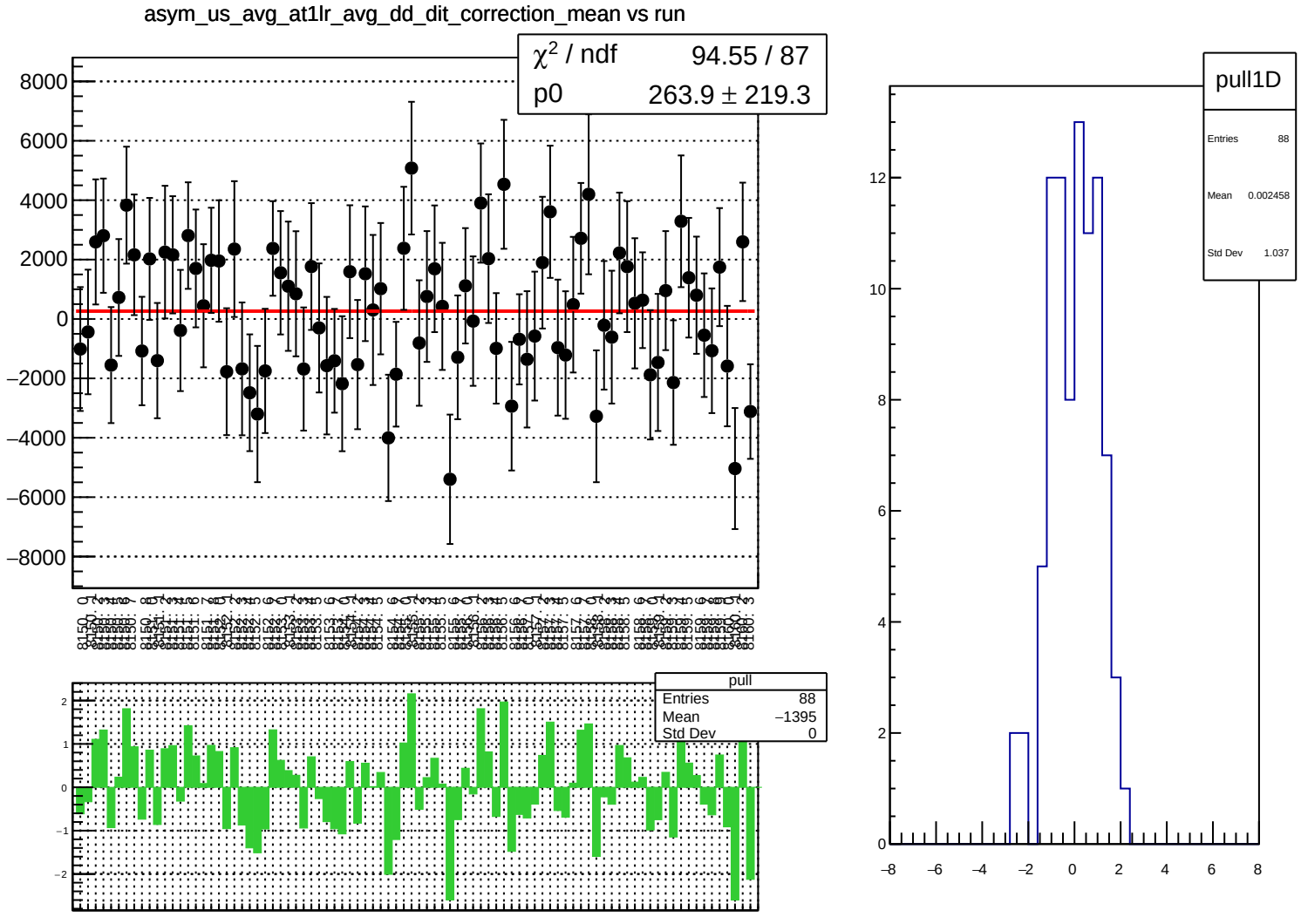

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 84.47 / 87
p0 1733 ± 1.339
1780
1760
1740
1720
1700

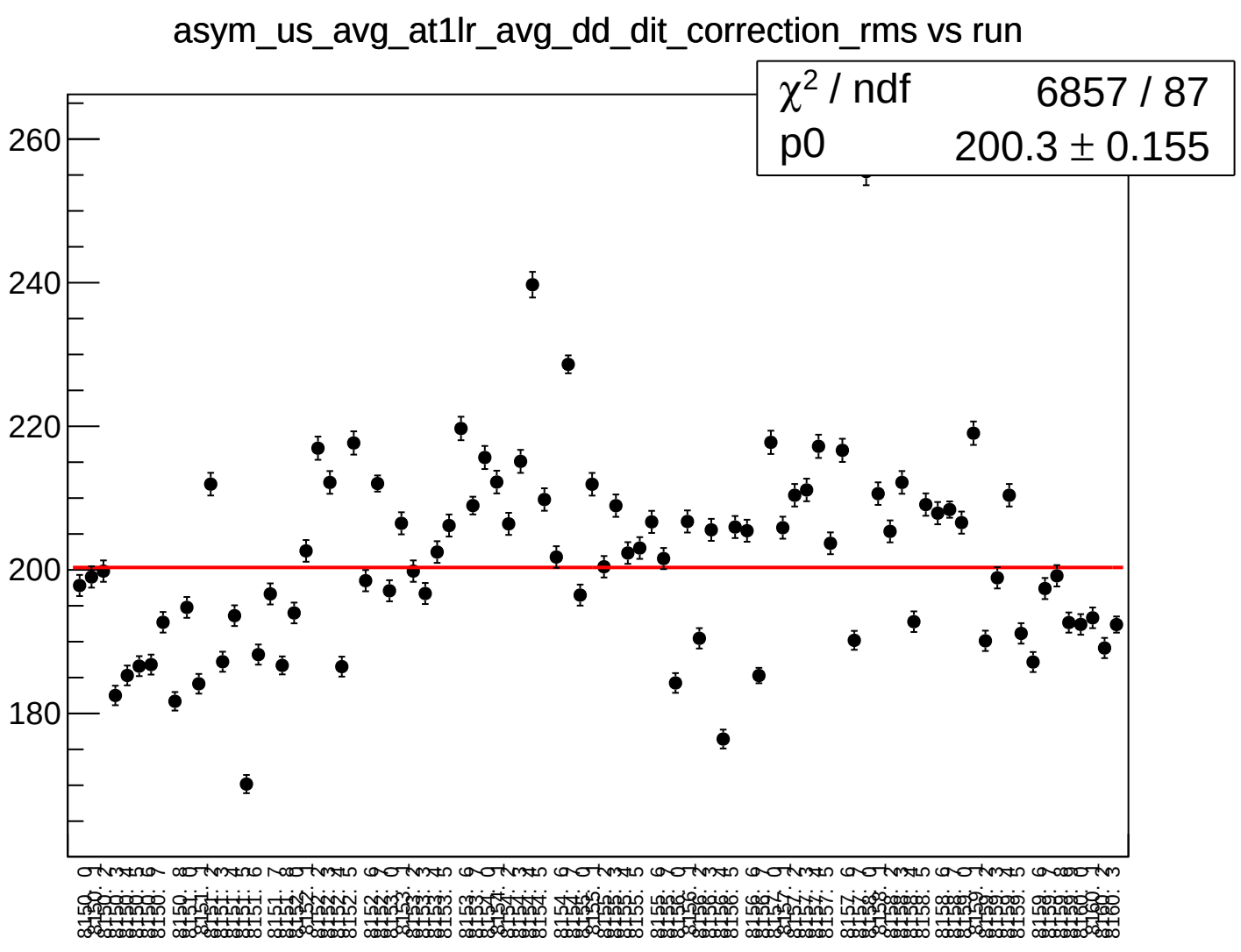

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.44 / 87
p0 359 ± 201.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean −478.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.006595
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

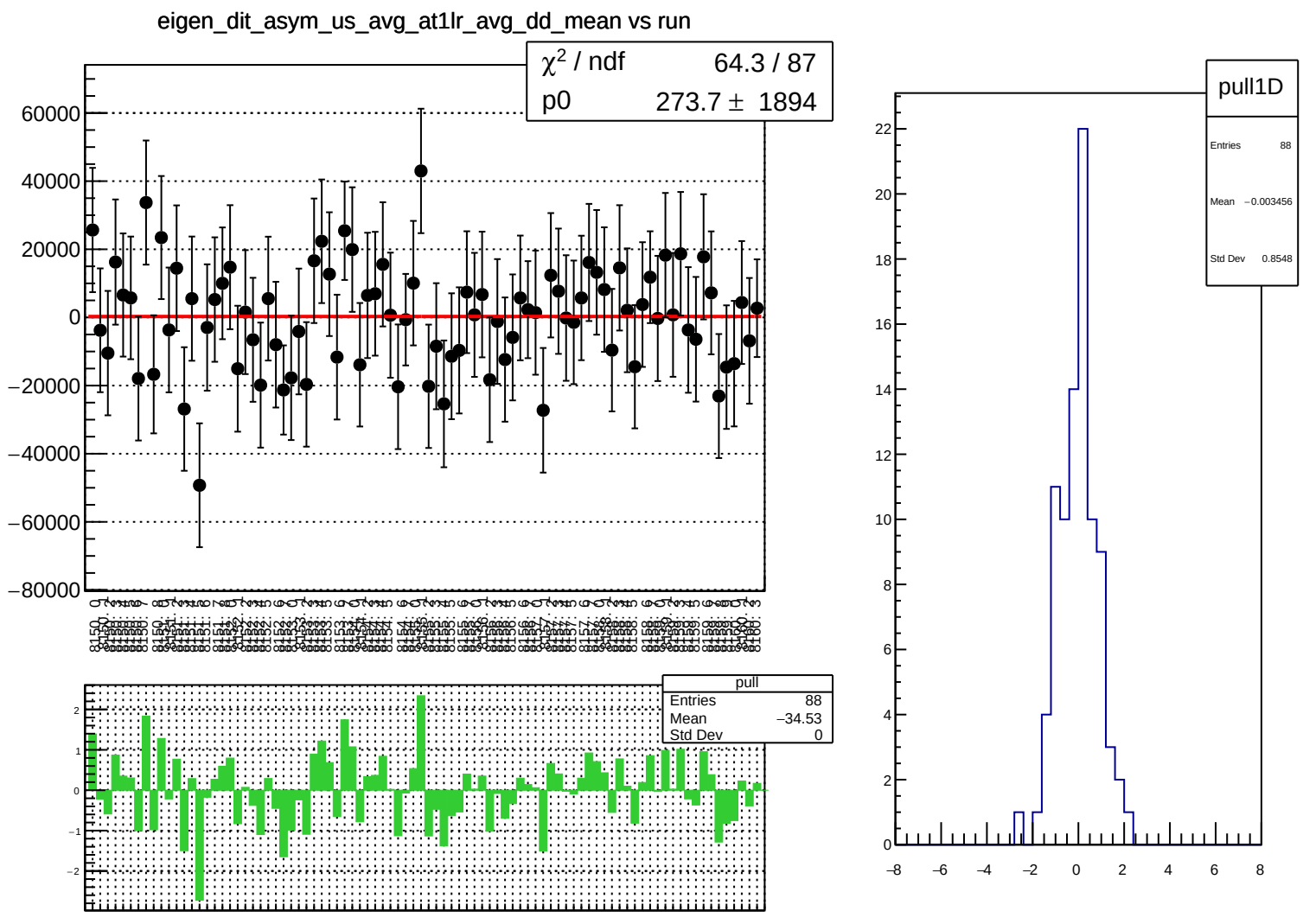

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.164e+04 / 87
p0 182.8 ± 0.1425
240
220
200
180
160
140
120

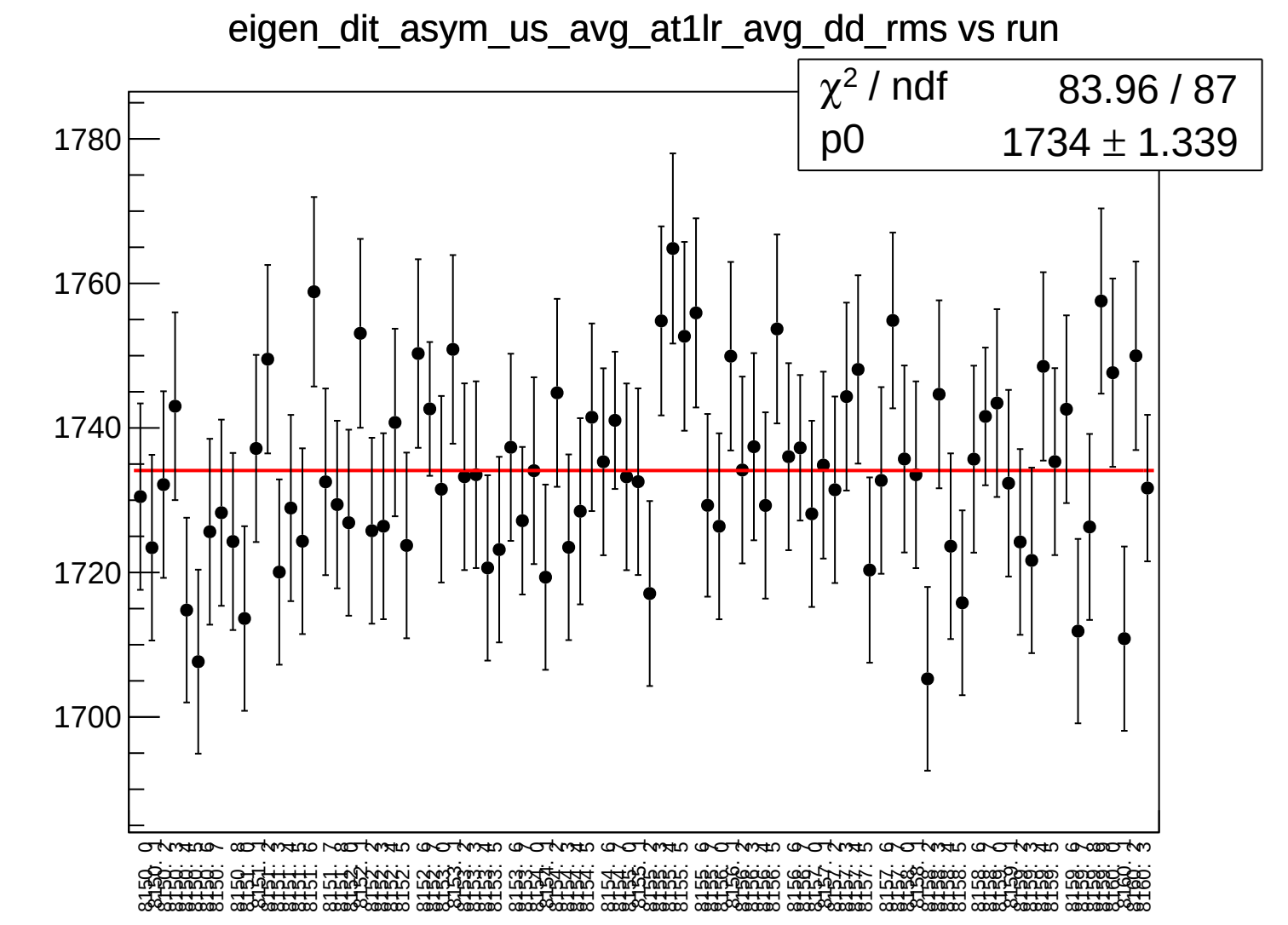

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 64.3 / 87
p0 273.8 ± 1894
pull
Entries 88
Mean −34.52
Std Dev 0
pull1D
Entries 88
Mean −0.003456
Std Dev 0.8548

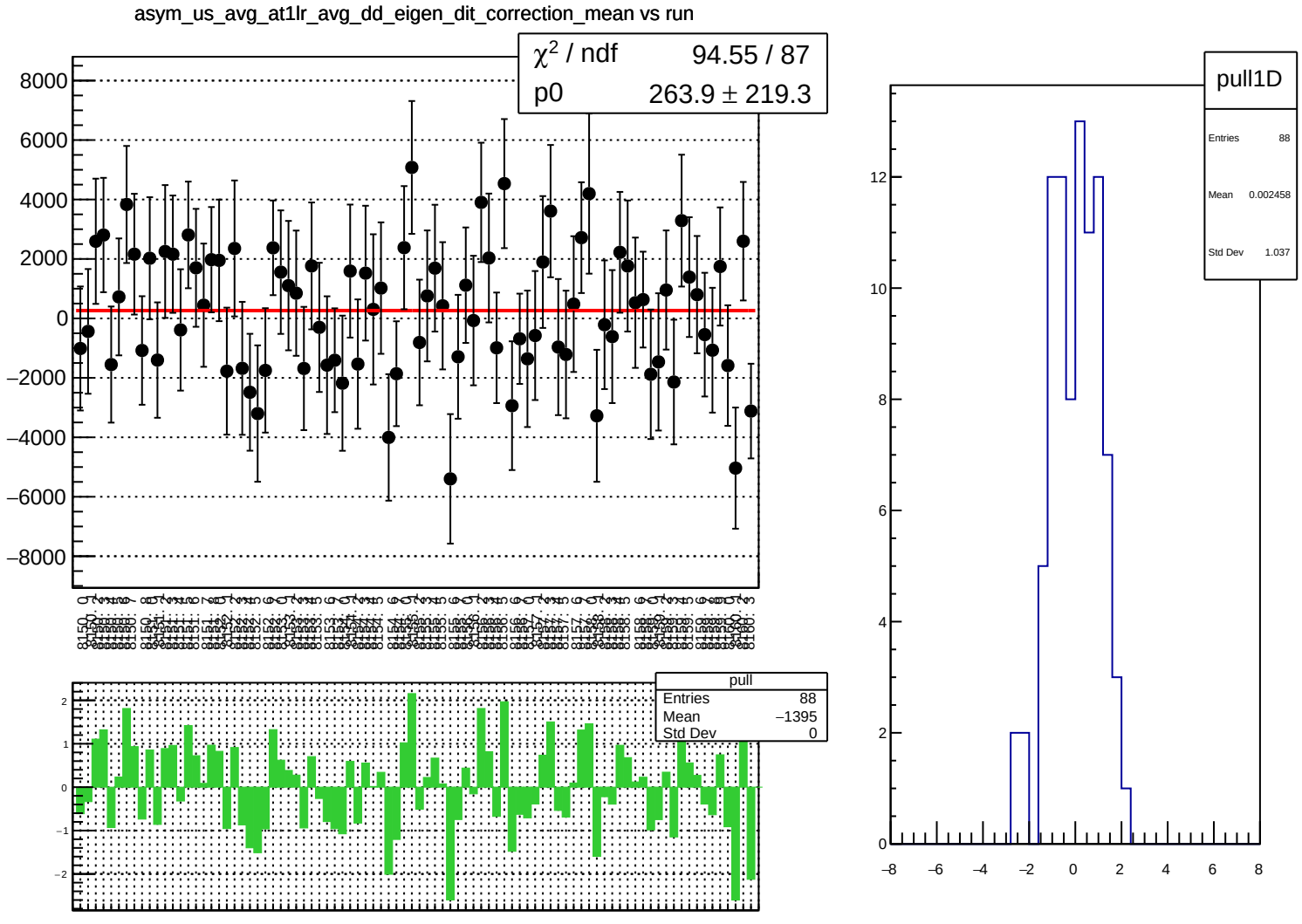

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 83.96 / 87
p0 1734 ± 1.339
1780
1760
1740
1720
1700

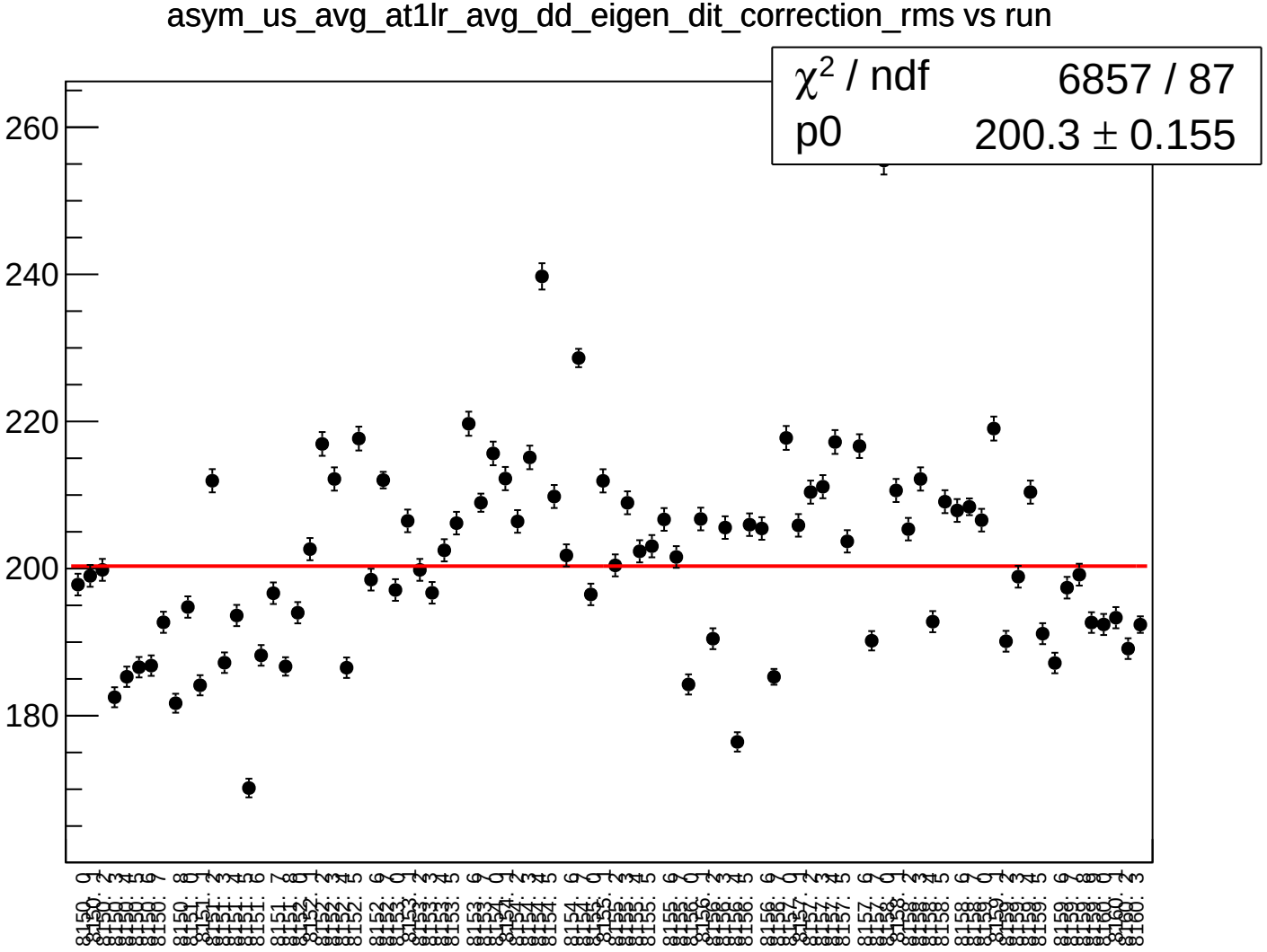

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 94.55 / 87
p0 263.9 ± 219.3
pull
Entries 88
Mean −1395
Std Dev 0
pull1D
Entries 88
Mean 0.002458
Std Dev 1.037

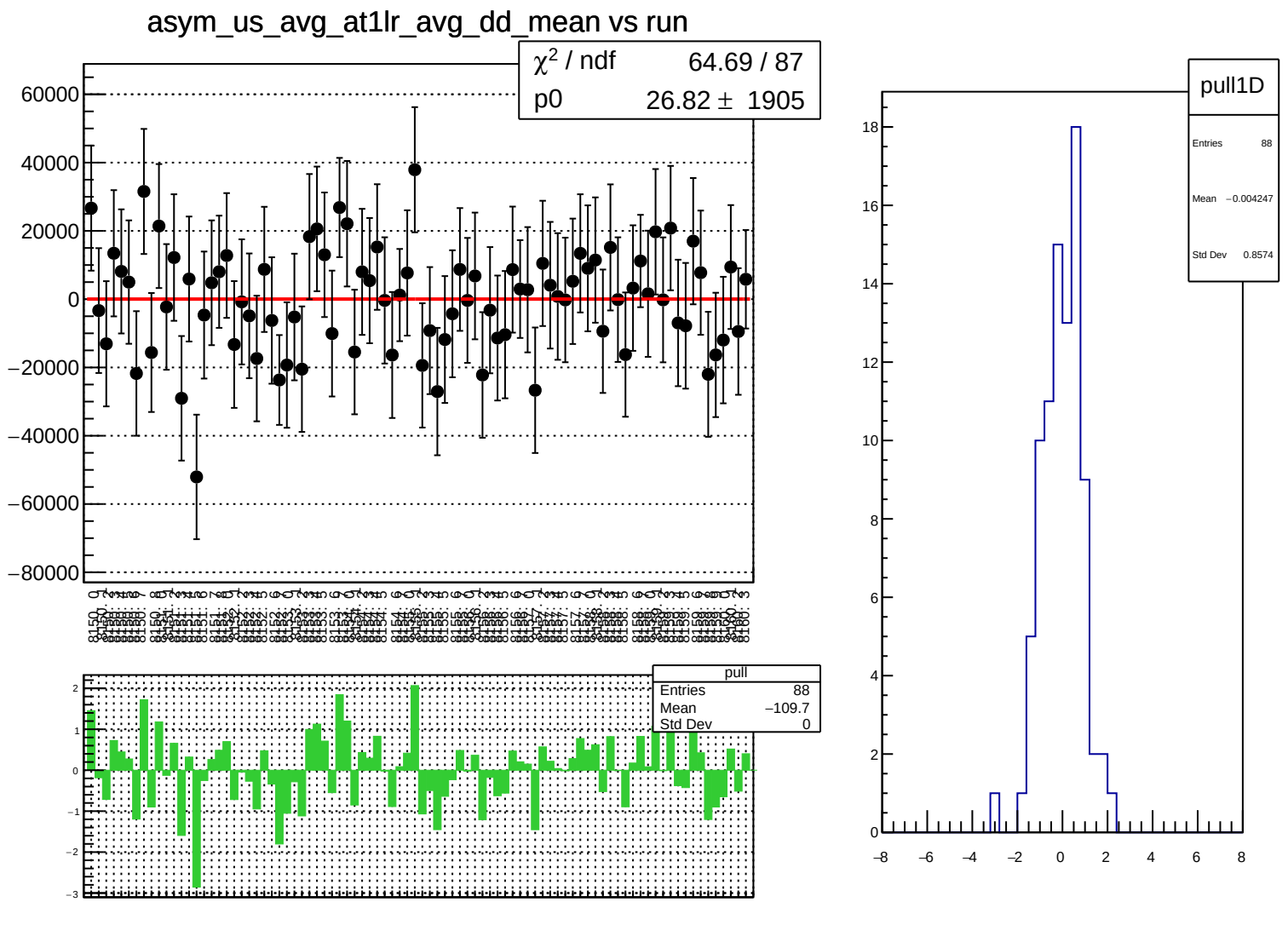

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 6857 / 87
p0 200.3 ± 0.155
260
240
220
200
180

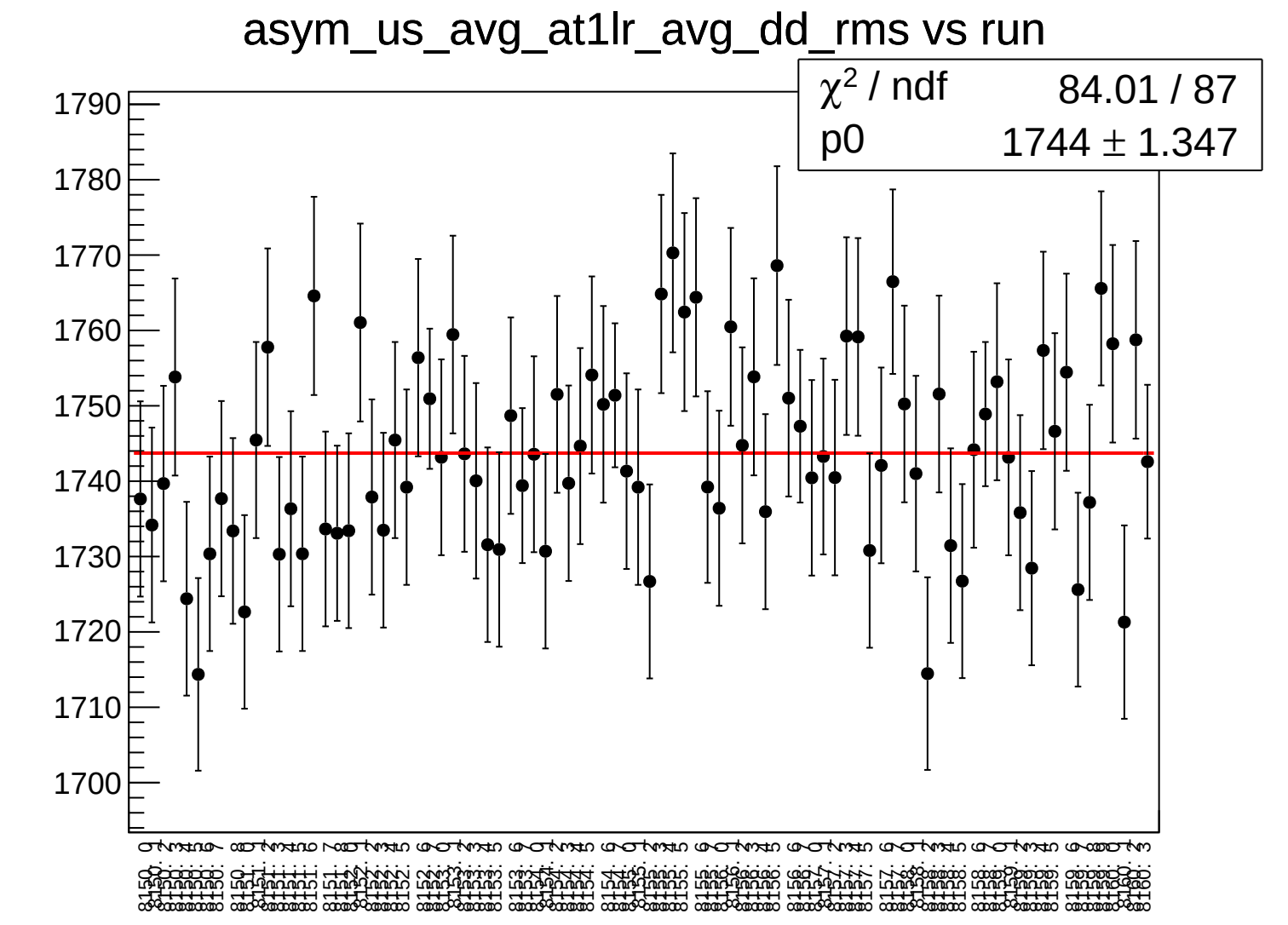

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 64.3 / 87
p0 273.7 ± 1894
pull
Entries 88
Mean −34.53
Std Dev 0
pull1D
Entries 88
Mean −0.003456
Std Dev 0.8548

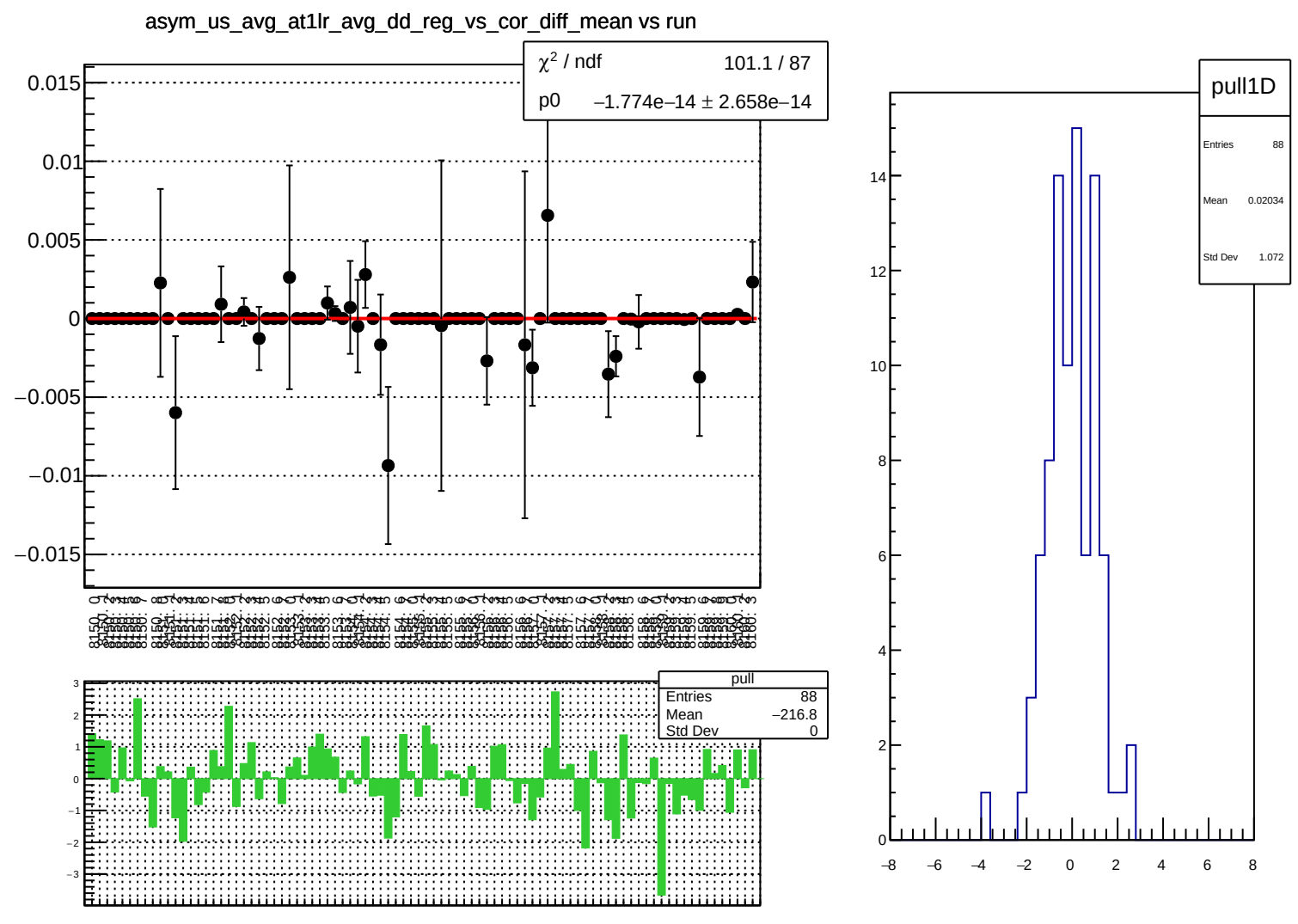

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 83.96 / 87
p0 1734 ± 1.339
1780
1760
1740
1720
1700

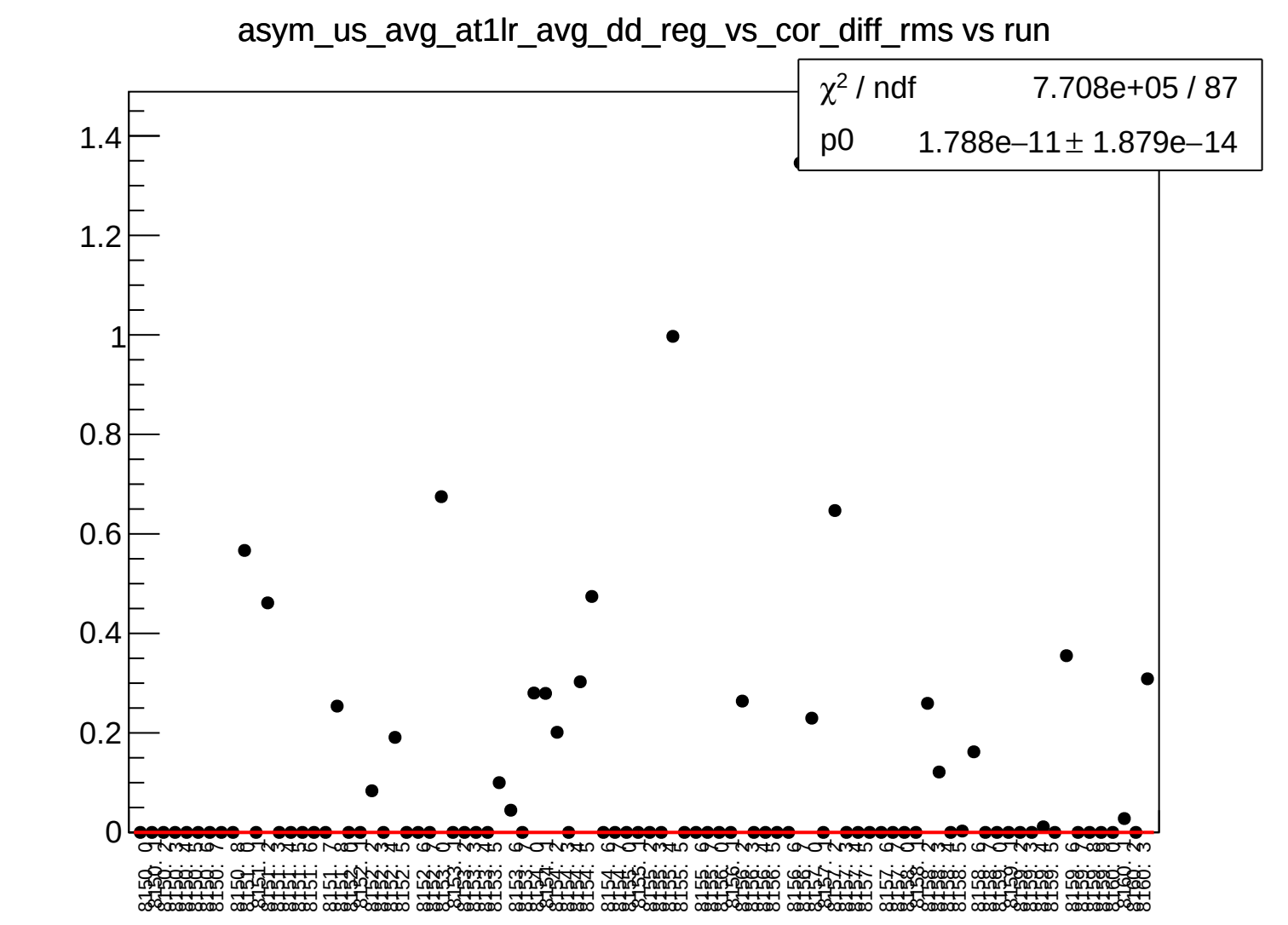

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.55 / 87
p0 263.9 ± 219.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean −1395
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.002458
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

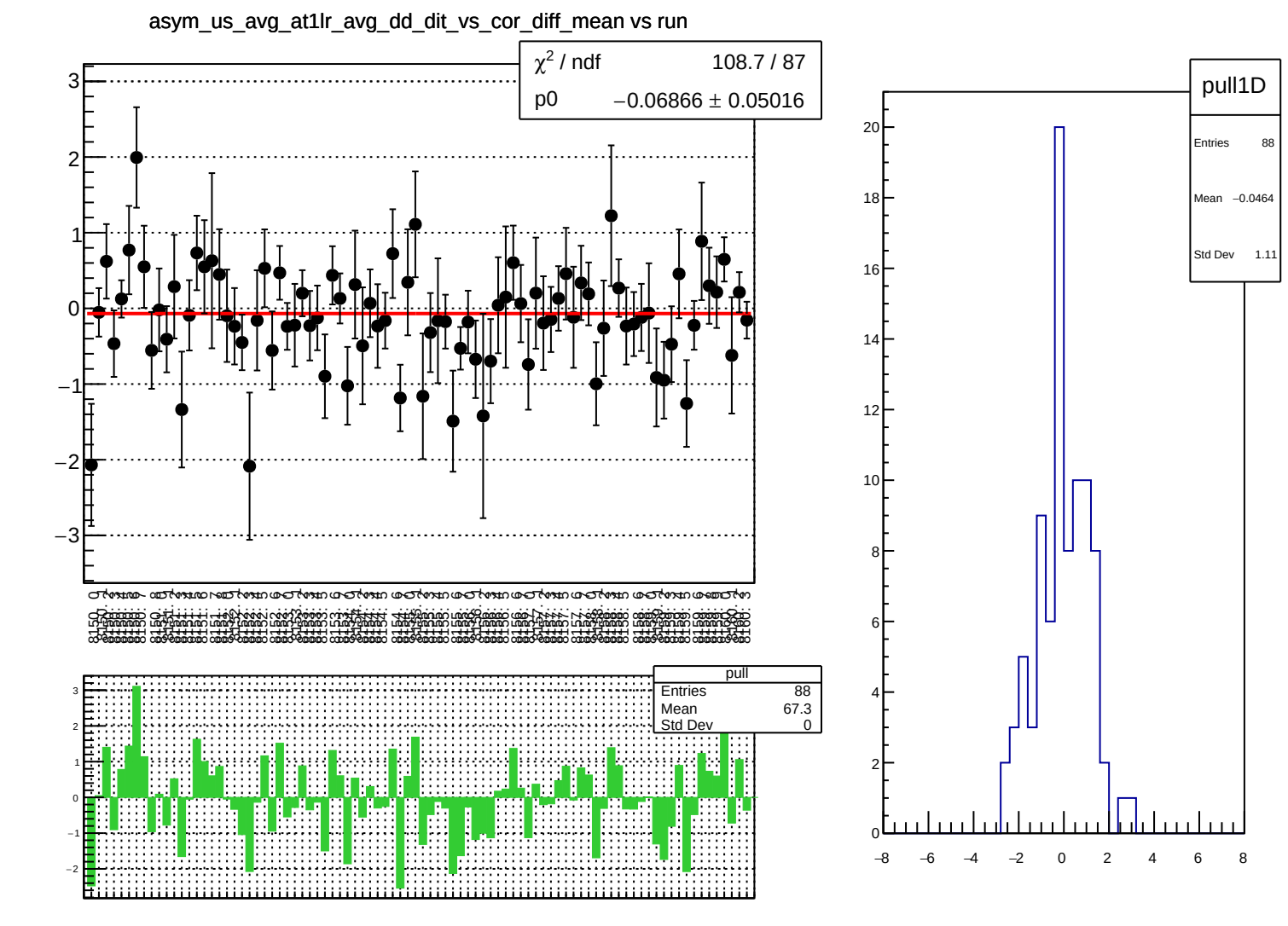

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6857 / 87
p0 200.3 ± 0.155
260
240
220
200
180

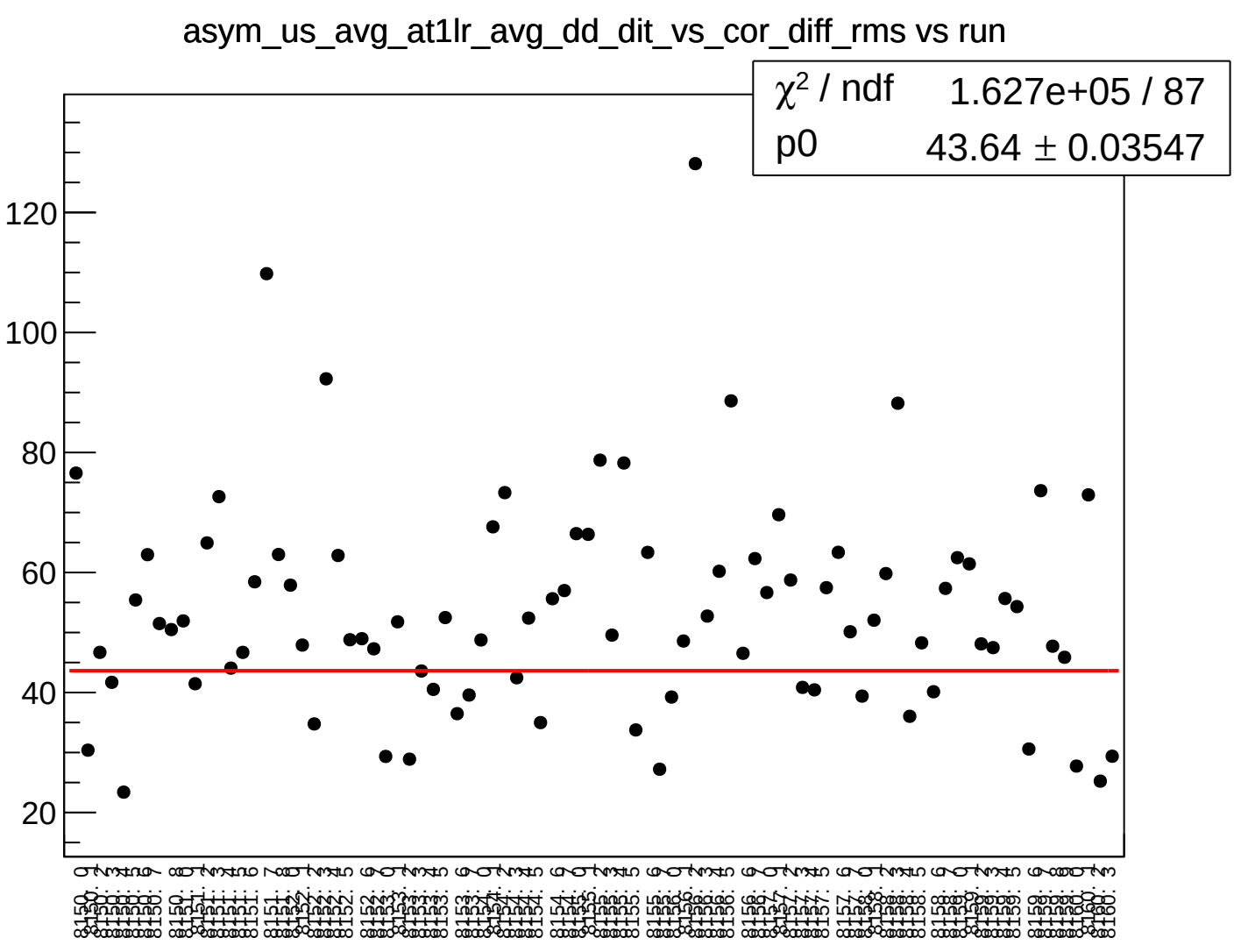

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 64.69 / 87
p0 26.82 ± 1905
pull
Entries 88
Mean −109.7
Std Dev 0
pull1D
Entries 88
Mean −0.004247
Std Dev 0.8574

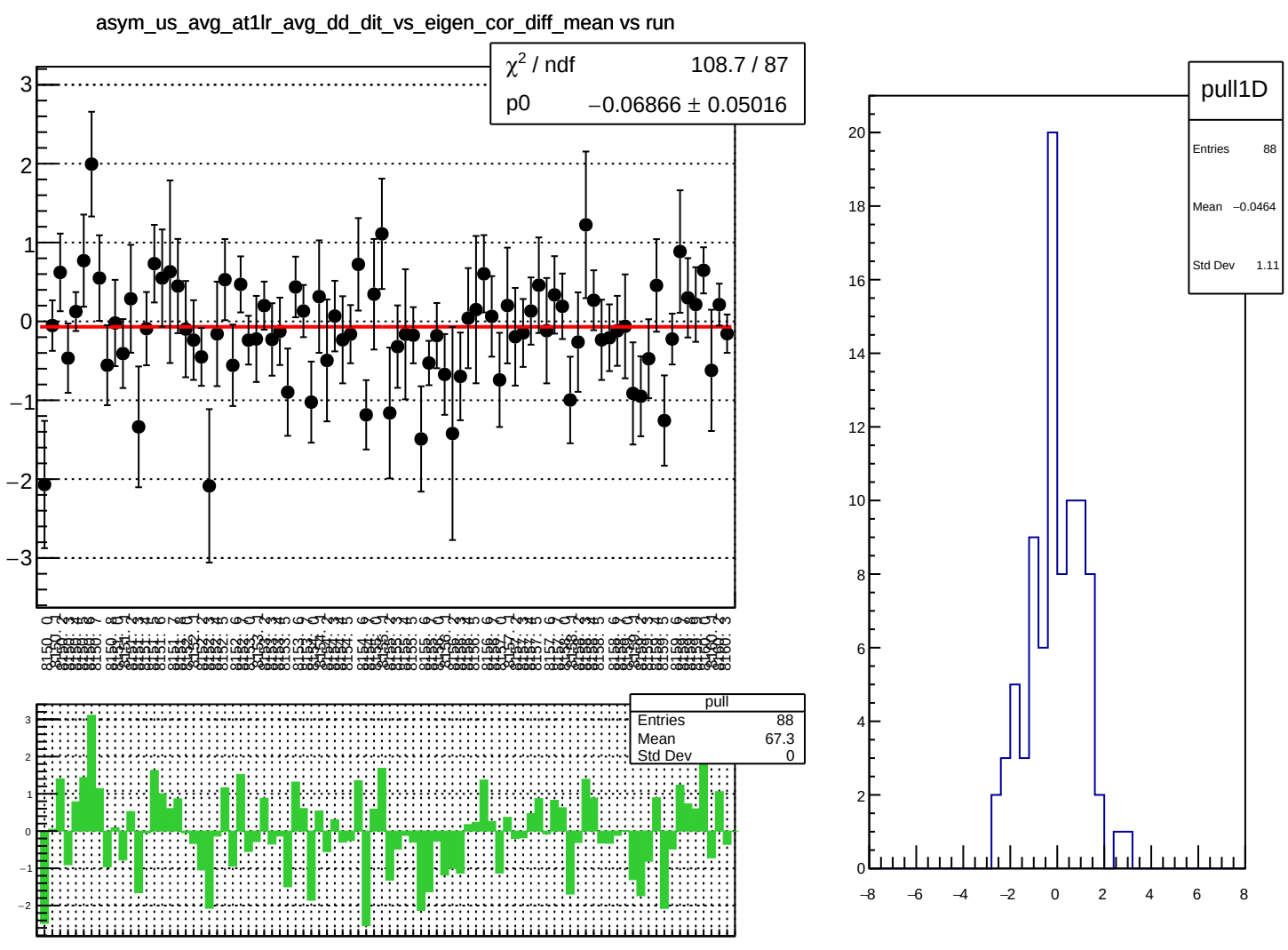

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 84.01 / 87
p0 1744 ± 1.347
1790
1780
1770
1760
1750
1740
1730
1720
1710
1700

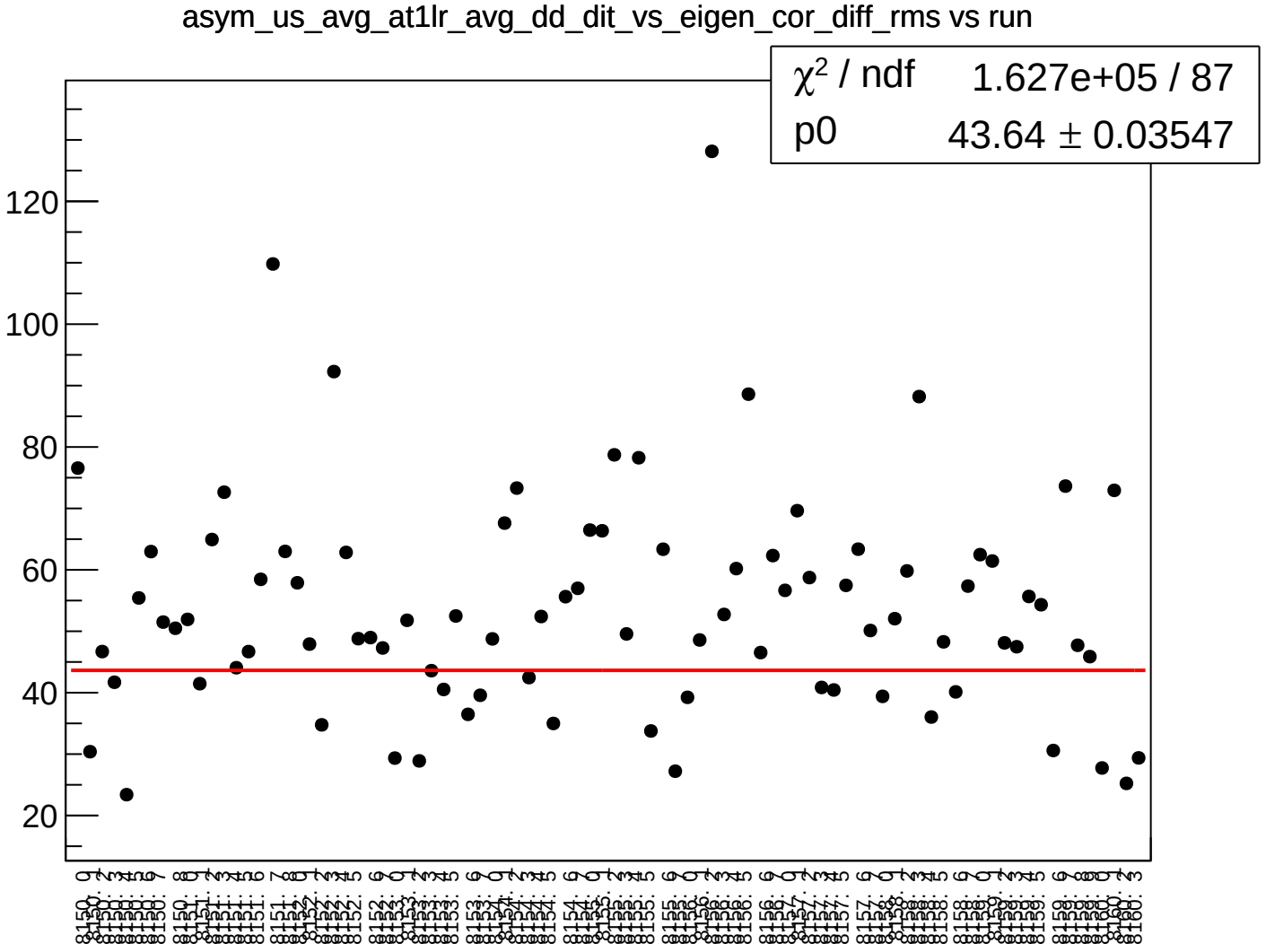

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.1 / 87
p0 −1.774e−14 ± 2.658e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean −216.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.02034
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

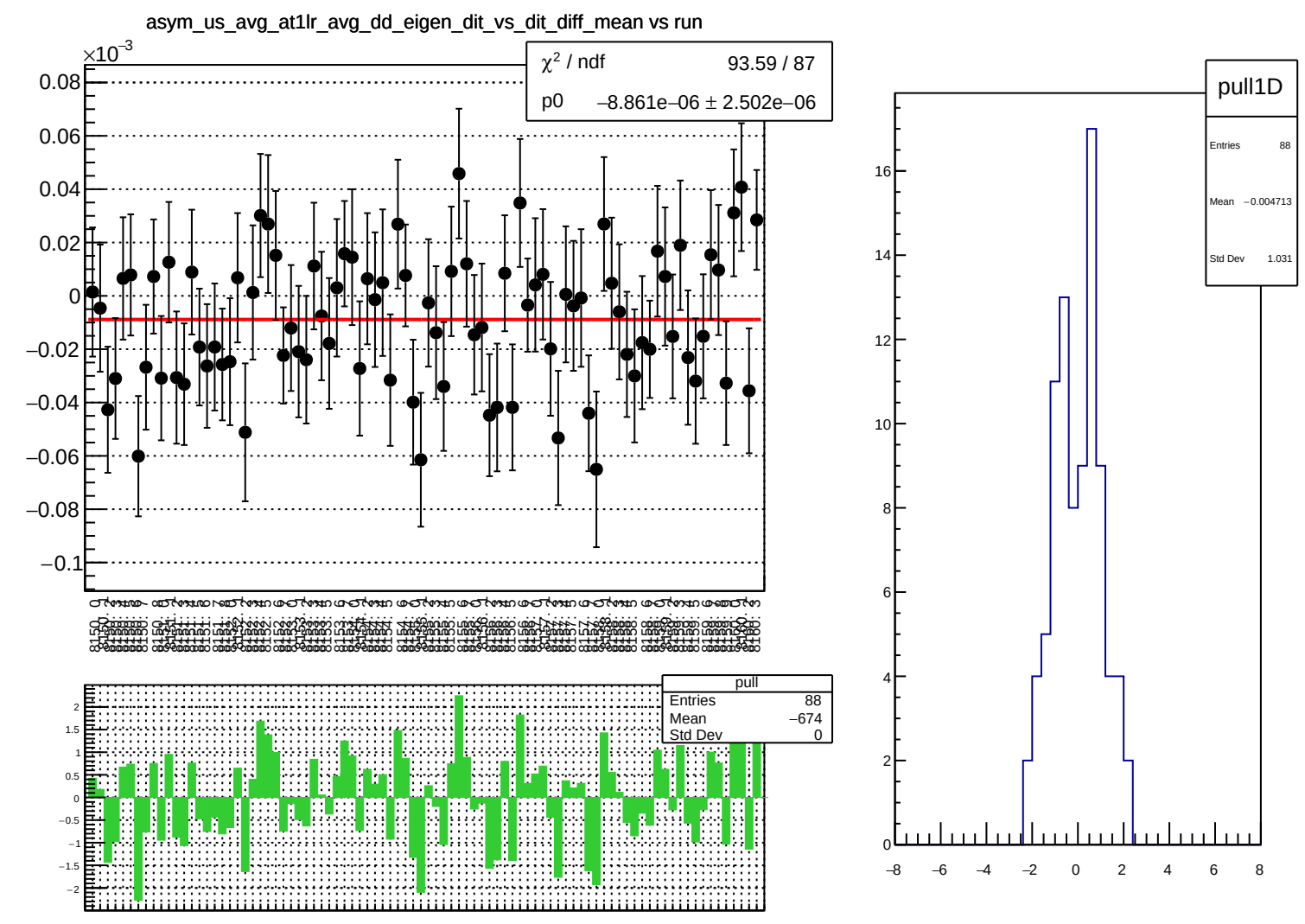

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.708e+05 / 87
p0 1.788e−11 ± 1.879e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

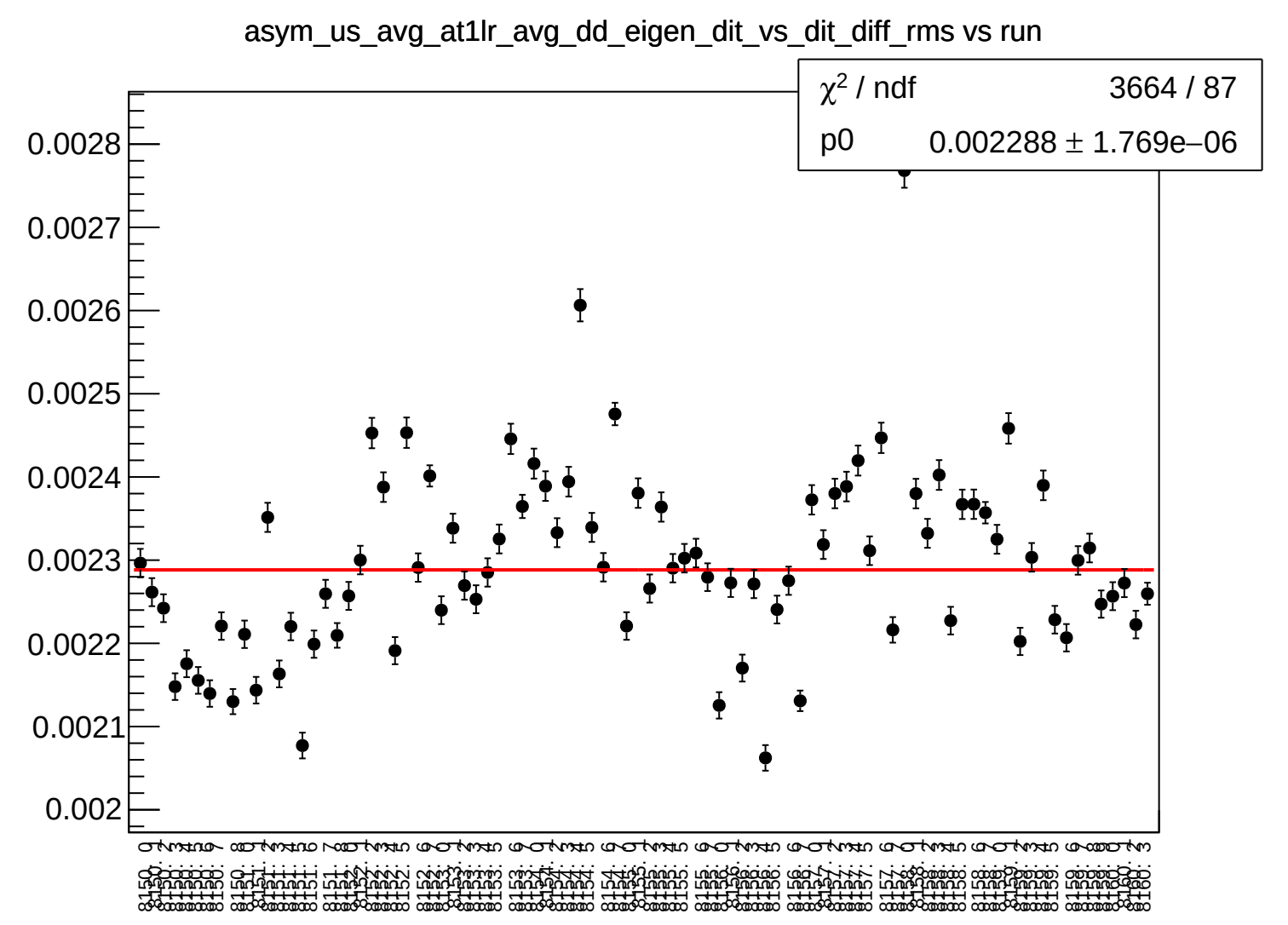

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 108.7 / 87
p0 −0.06866 ± 0.05016
pull
Entries 88
Mean 67.3
Std Dev 0
pull1D
Entries 88
Mean −0.0464
Std Dev 1.11

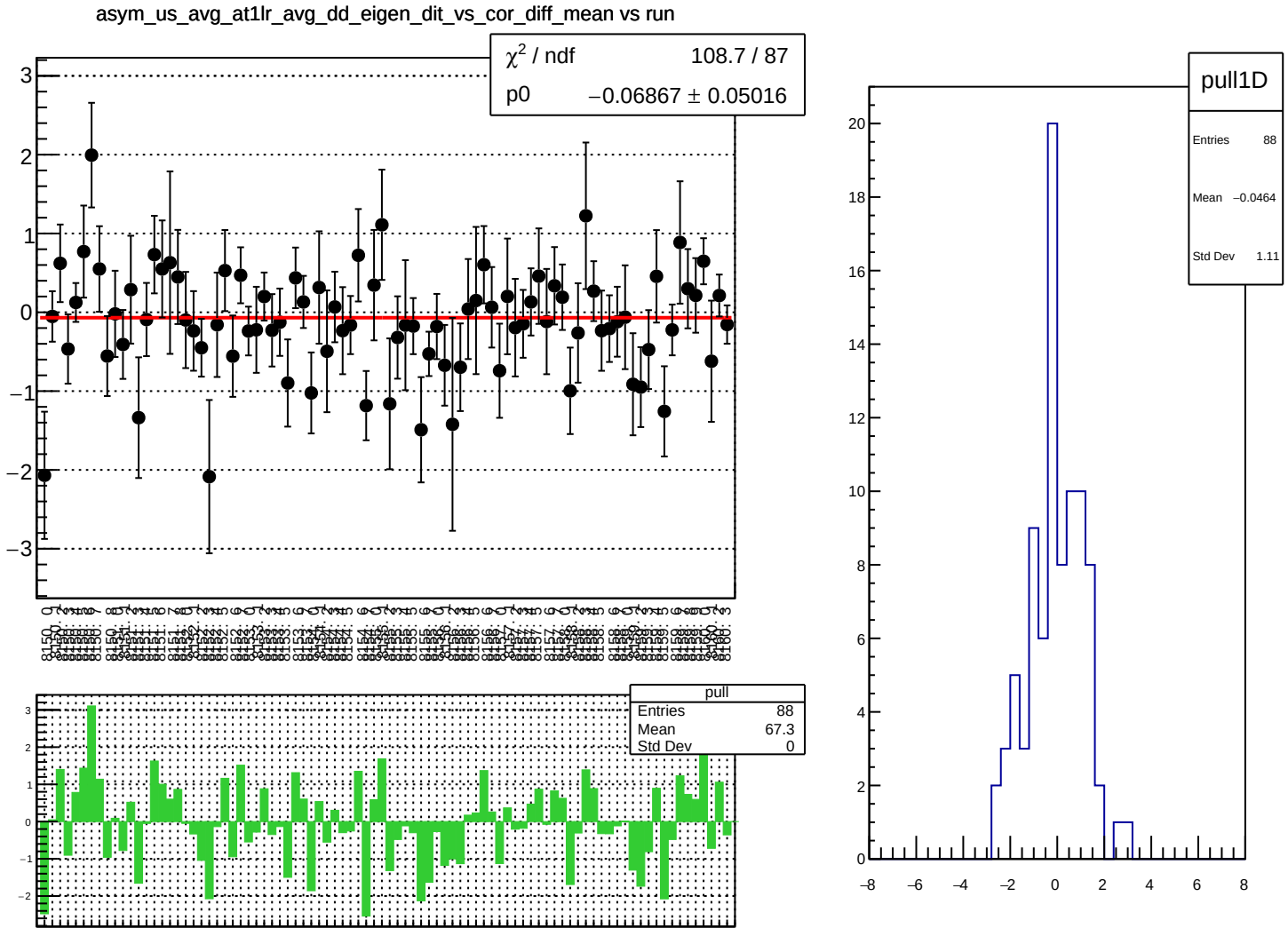

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.627e+05 / 87
p0 43.64 ± 0.03547
120
100
80
60
40
20

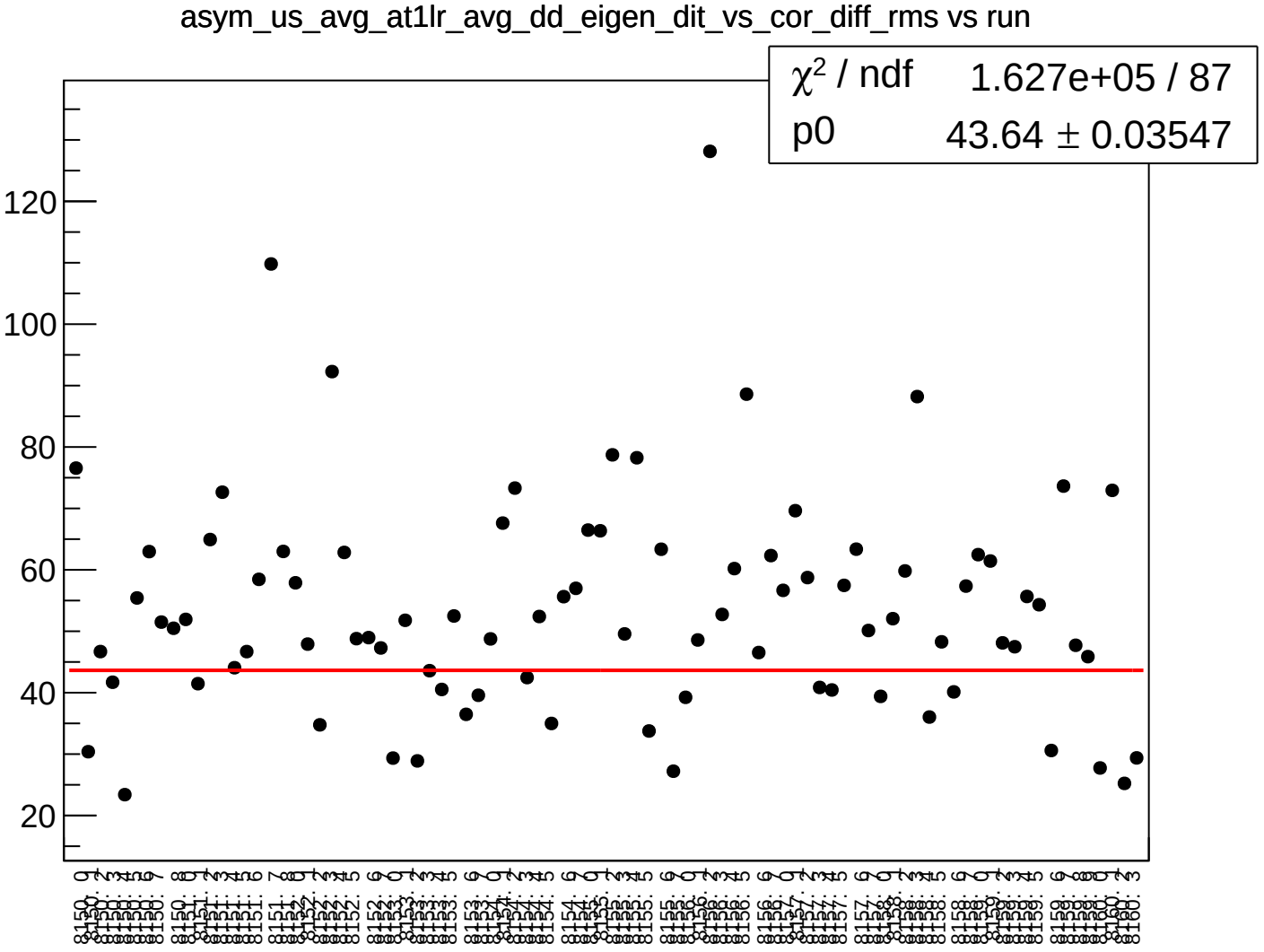

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.7 / 87
p0 −0.06866 ± 0.05016
pull
Entries 88
Mean 67.3
Std Dev 0
pull1D
Entries 88
Mean −0.0464
Std Dev 1.11

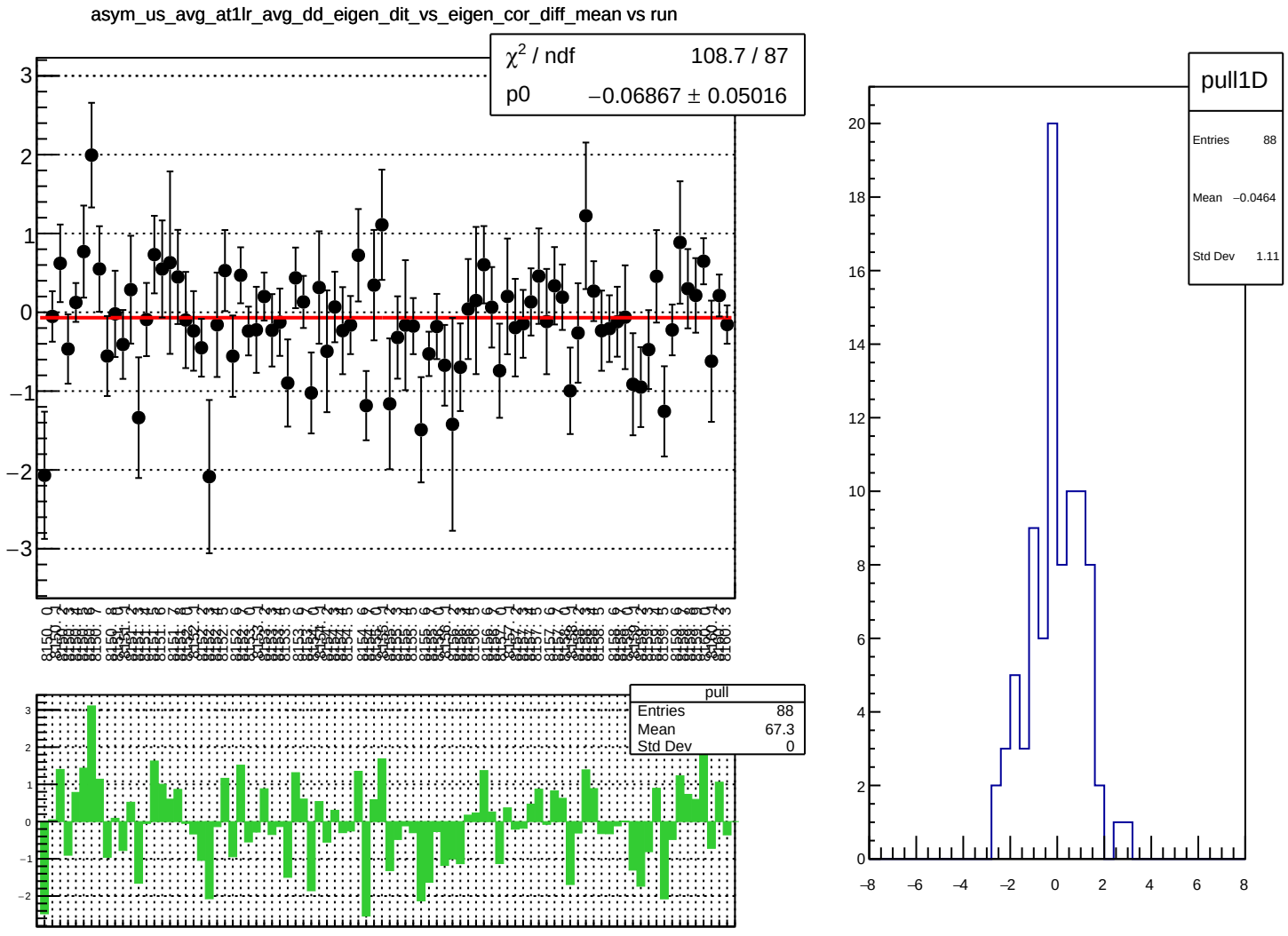

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.627e+05 / 87
p0 43.64 ± 0.03547
120
100
80
60
40
20

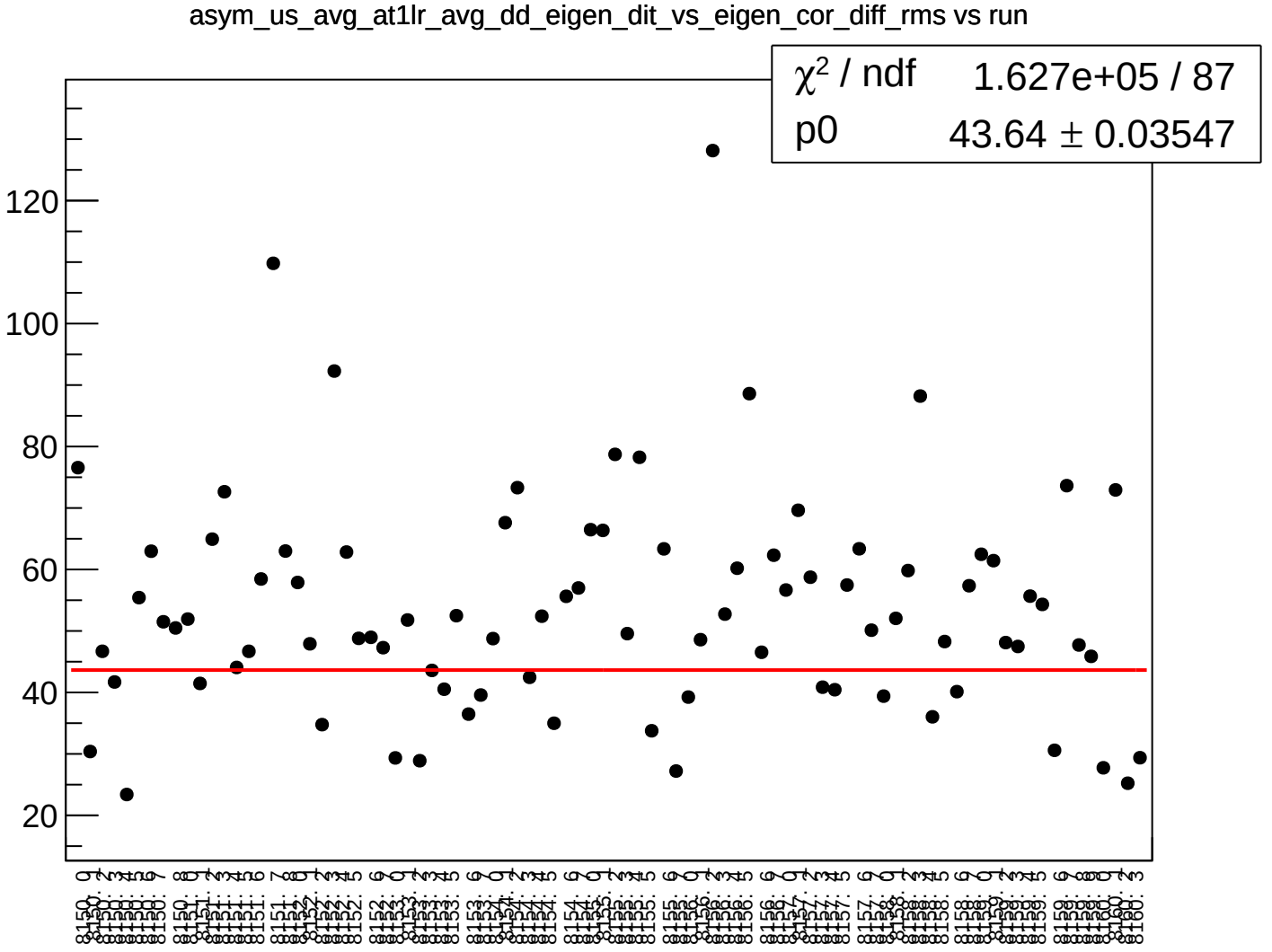

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.59 / 87
p0 −8.861e−06 ± 2.502e−06
pull
Entries 88
Mean −674
Std Dev 0
pull1D
Entries 88
Mean −0.004713
Std Dev 1.031

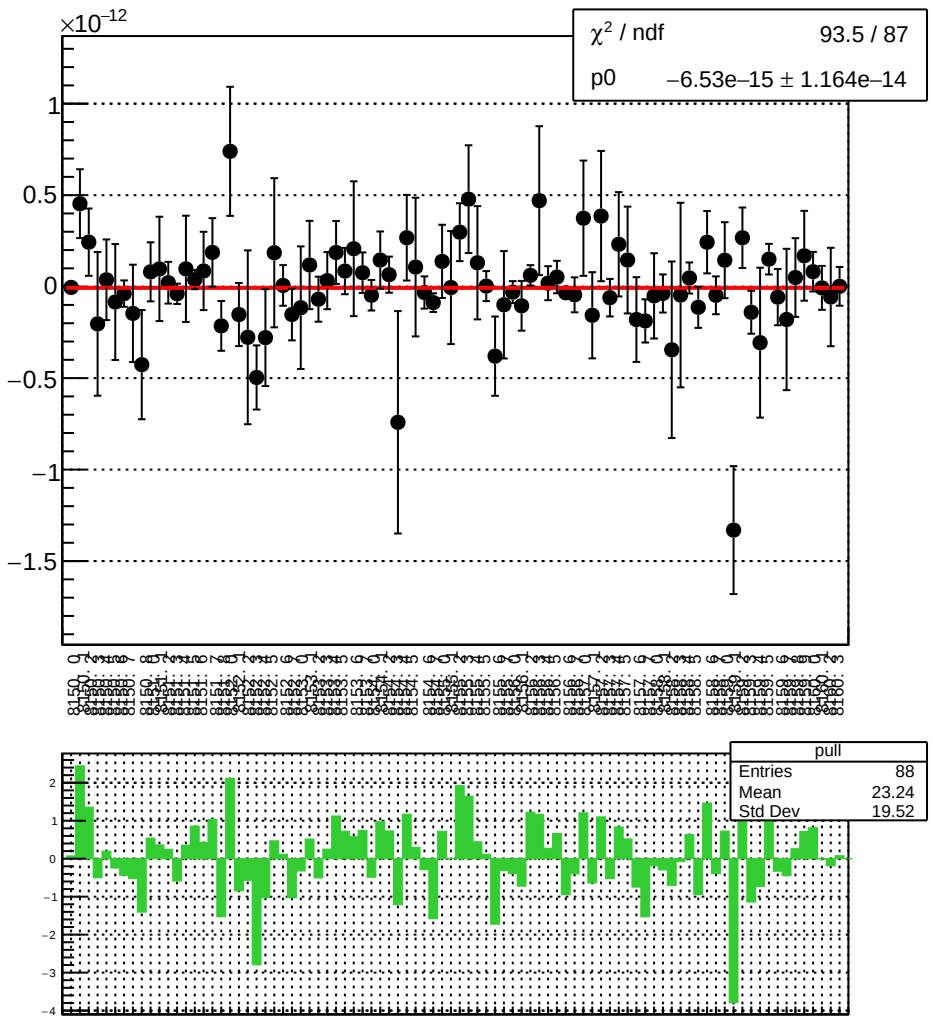

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3664 / 87
p0 0.002288 ± 1.769e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

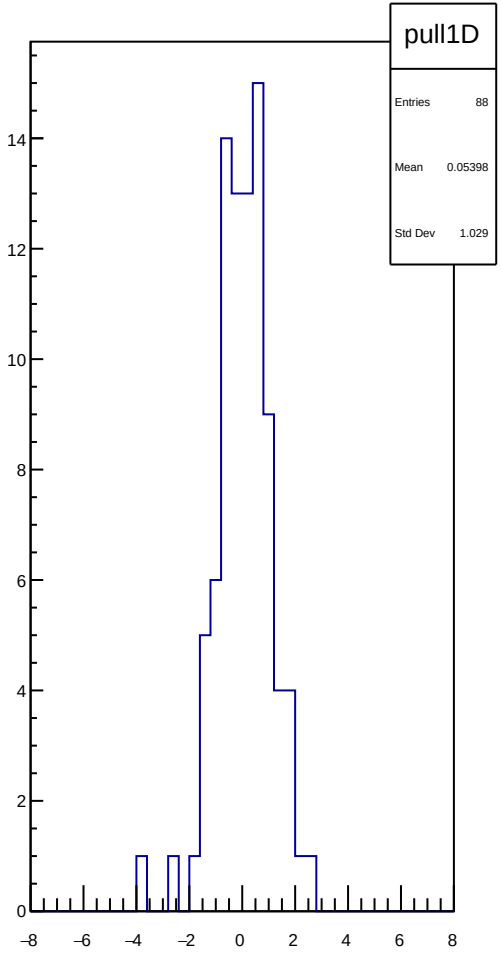

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.7 / 87
p0 −0.06867 ± 0.05016
pull
Entries 88
Mean 67.3
Std Dev 0
pull1D
Entries 88
Mean −0.0464
Std Dev 1.11

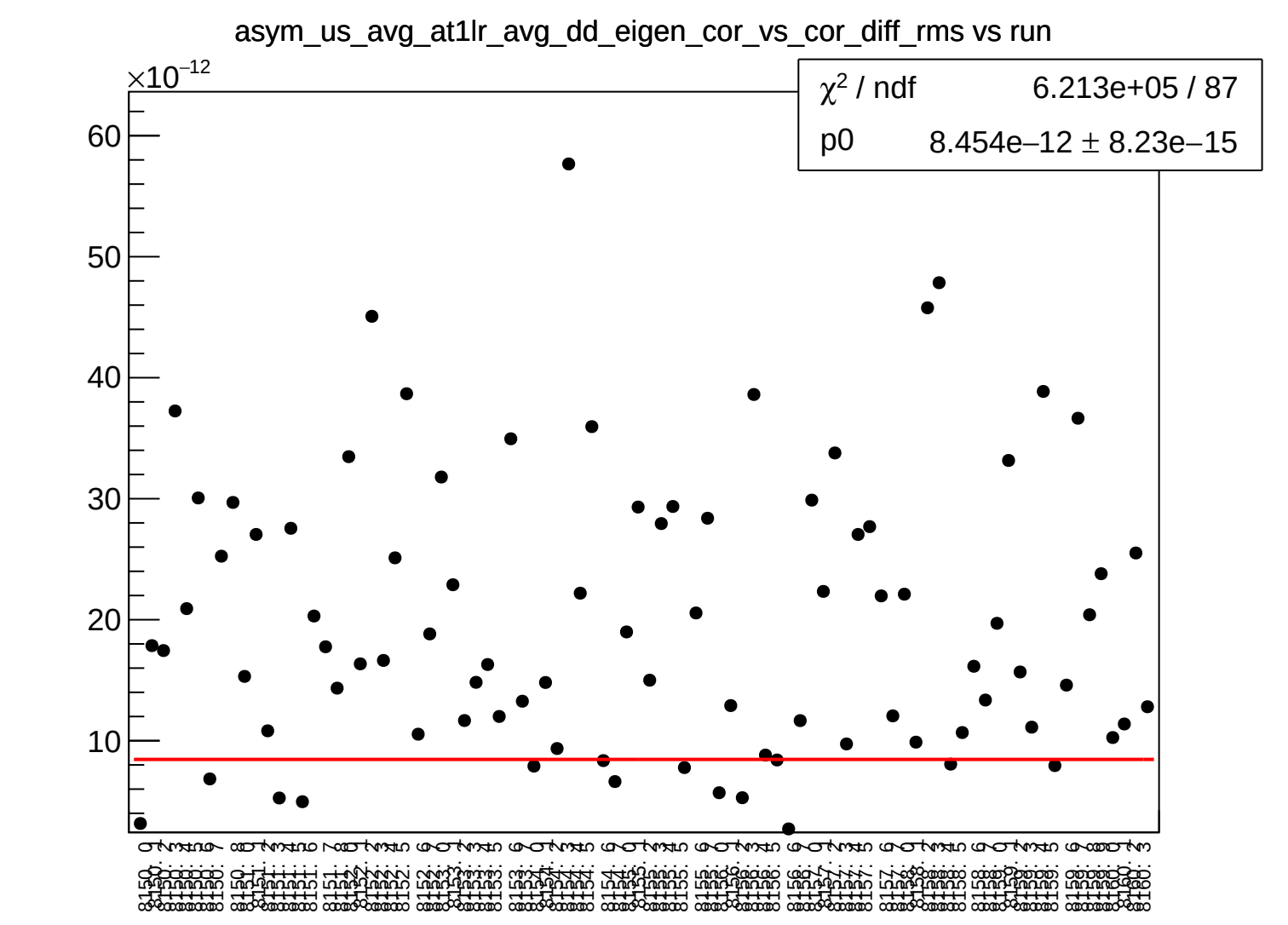

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.627e+05 / 87
p0 43.64 ± 0.03547
120
100
80
60
40
20

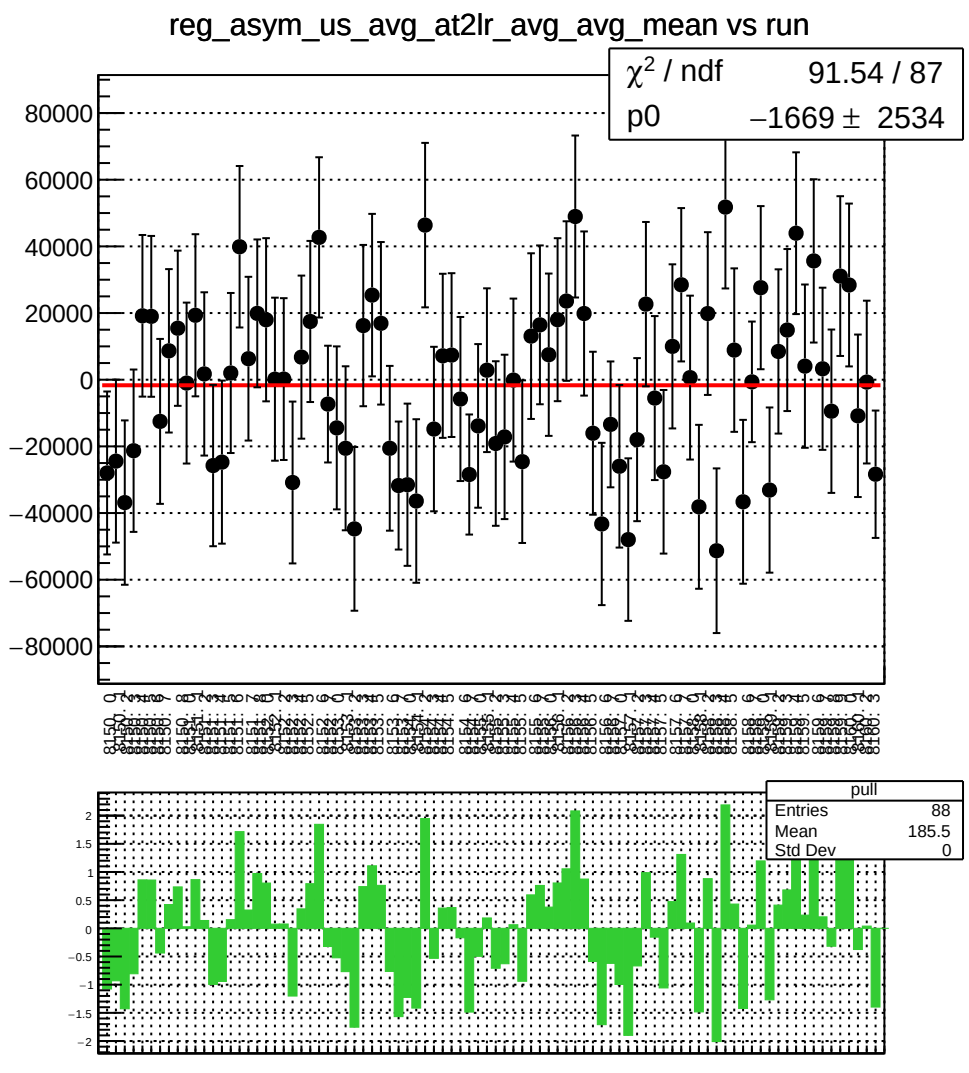

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.7 / 87
p0 −0.06867 ± 0.05016
pull
Entries 88
Mean 67.3
Std Dev 0
pull1D
Entries 88
Mean −0.0464
Std Dev 1.11

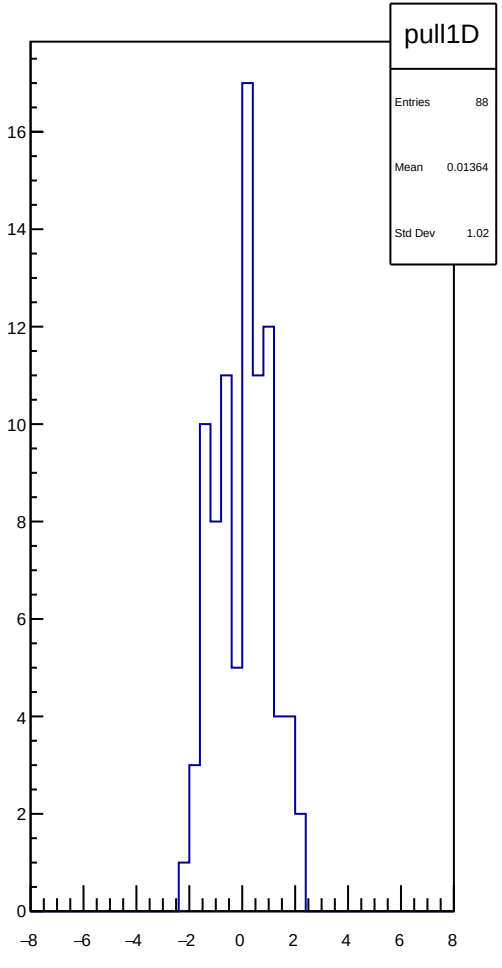

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.627e+05 / 87
p0 43.64 ± 0.03547
120
100
80
60
40
20

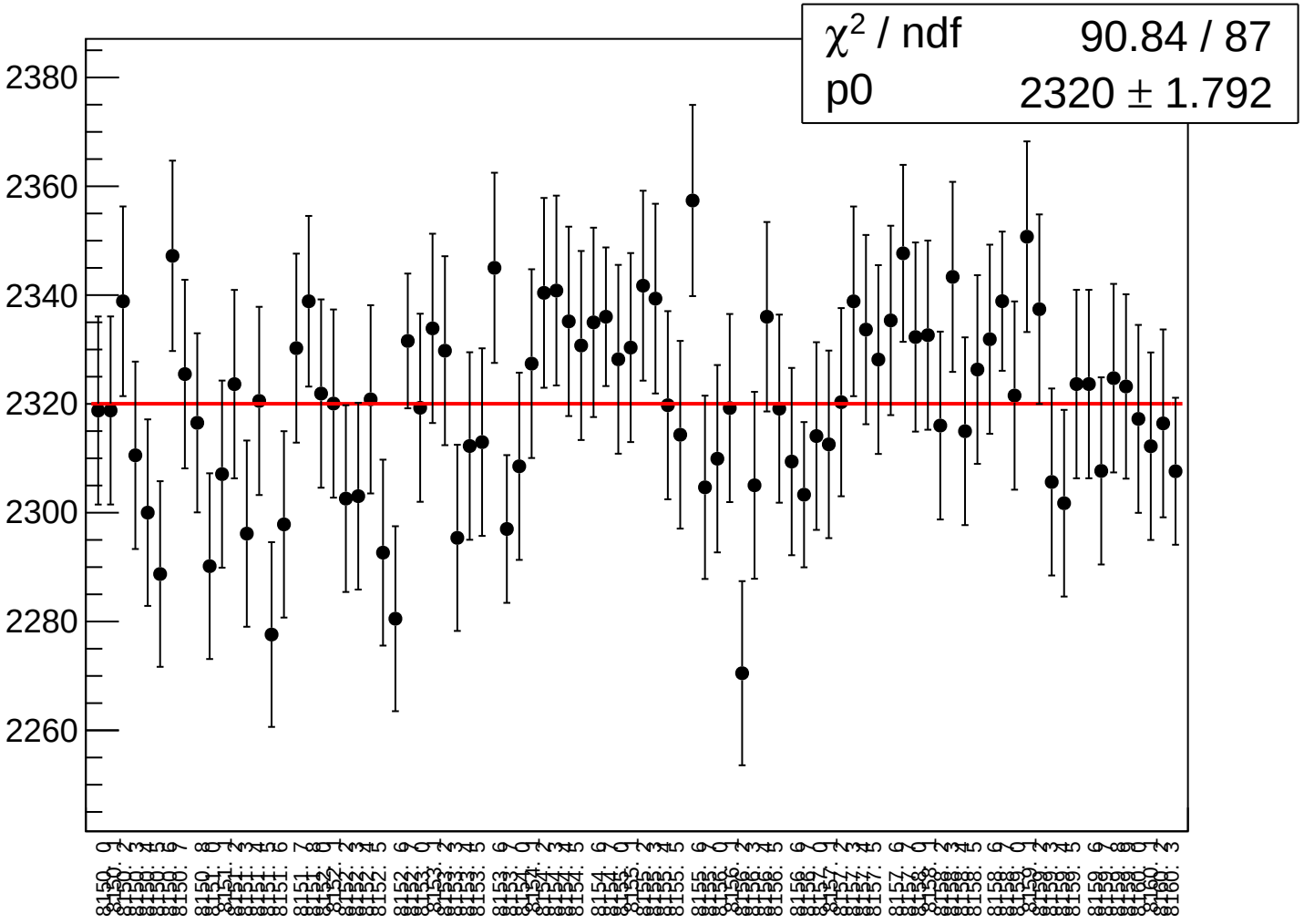

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.5 / 87
p0 −6.53e−15 ± 1.164e−14
pull
Entries 88
Mean 23.24
Std Dev 19.52

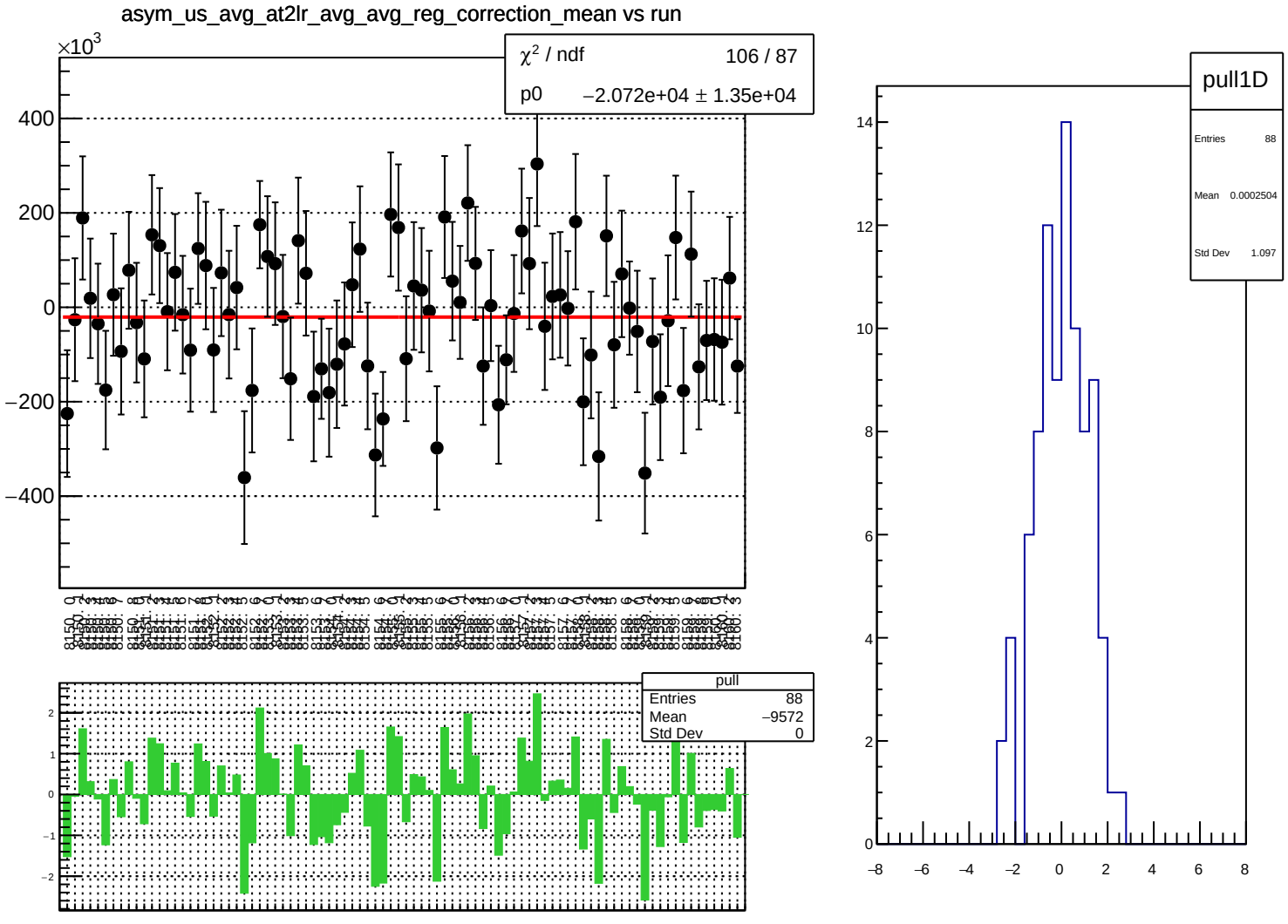

pull1D
Entries 88
Mean 0.05398
Std Dev 1.029

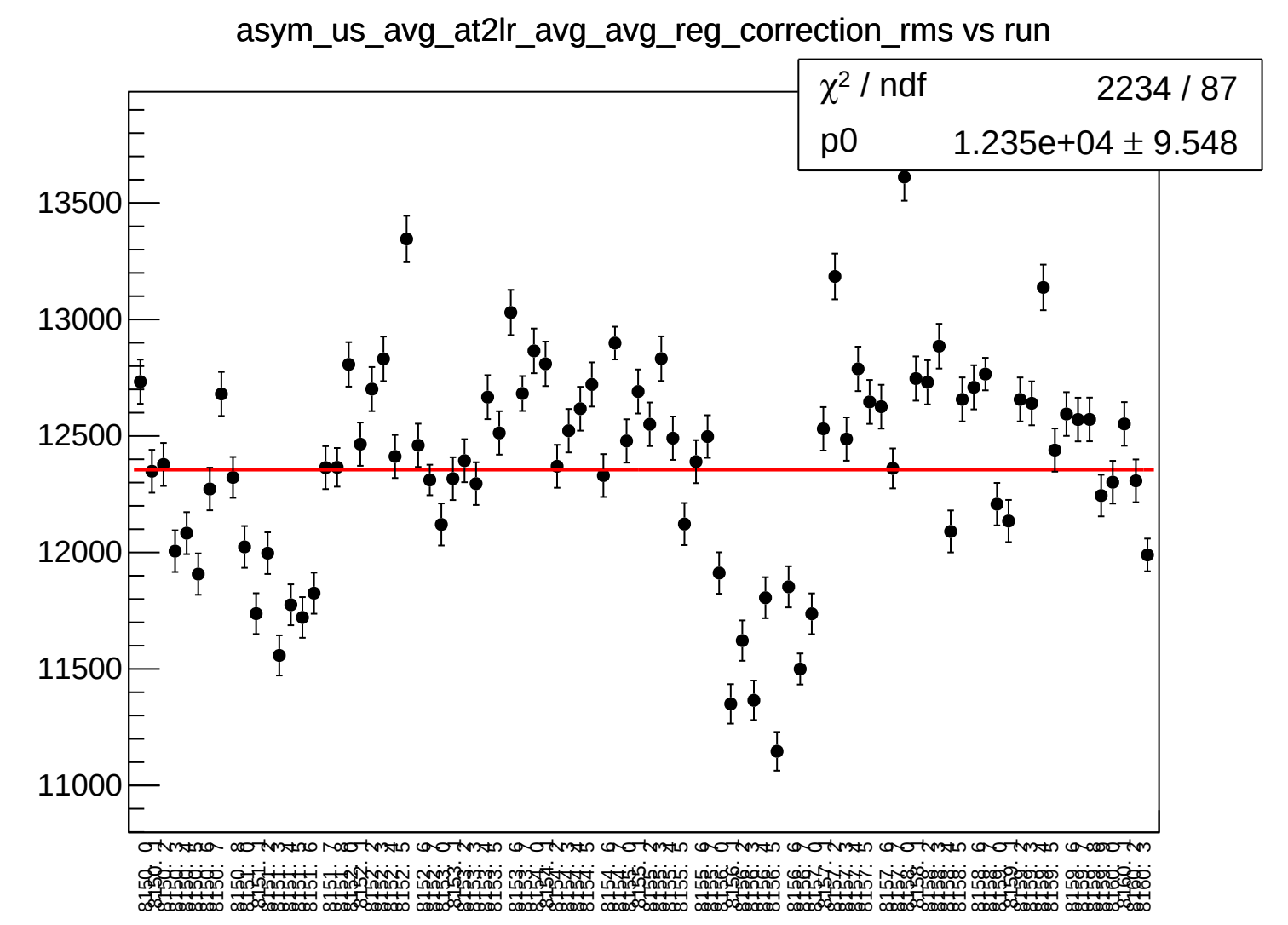

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.213e+05 / 87
p0 8.454e−12 ± 8.23e−15
60
50
40
30
20
10

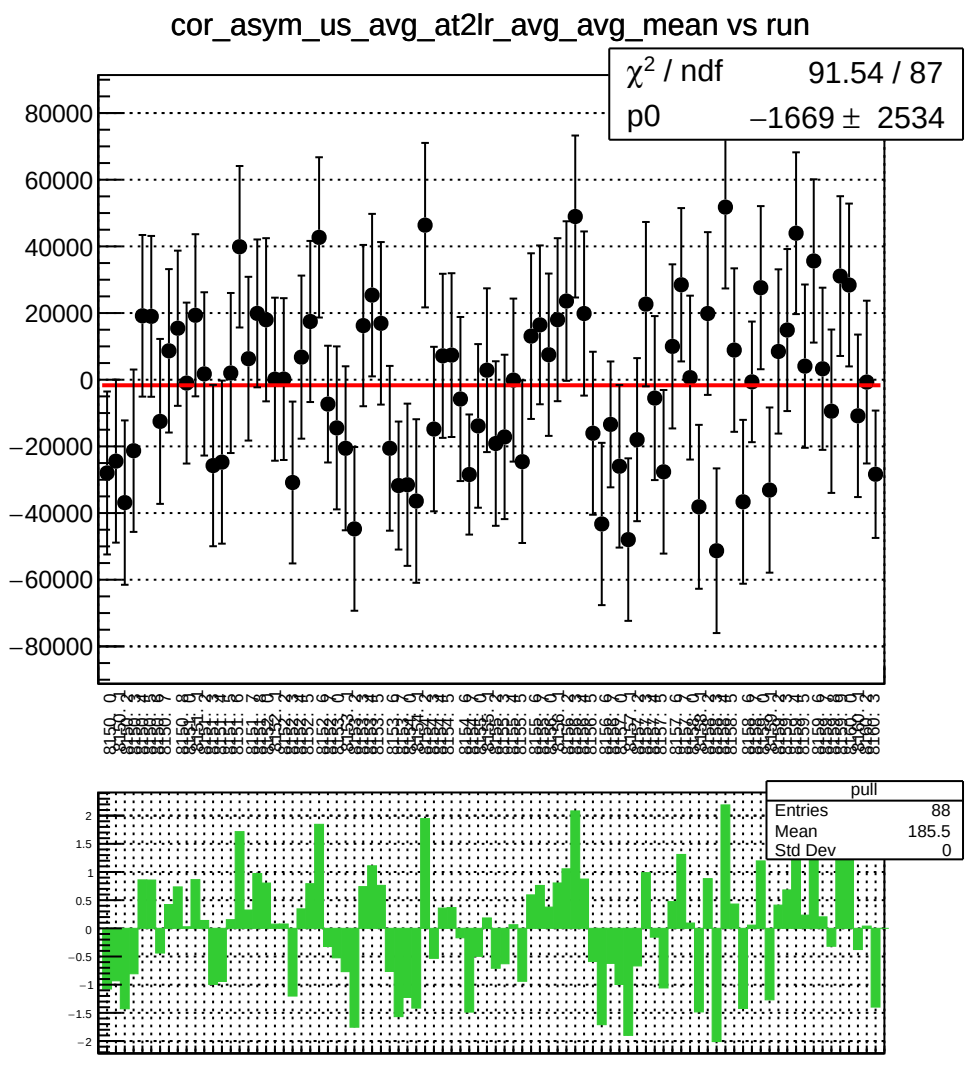

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 91.54 / 87
p0 −1669 ± 2534
pull
Entries 88
Mean 185.5
Std Dev 0

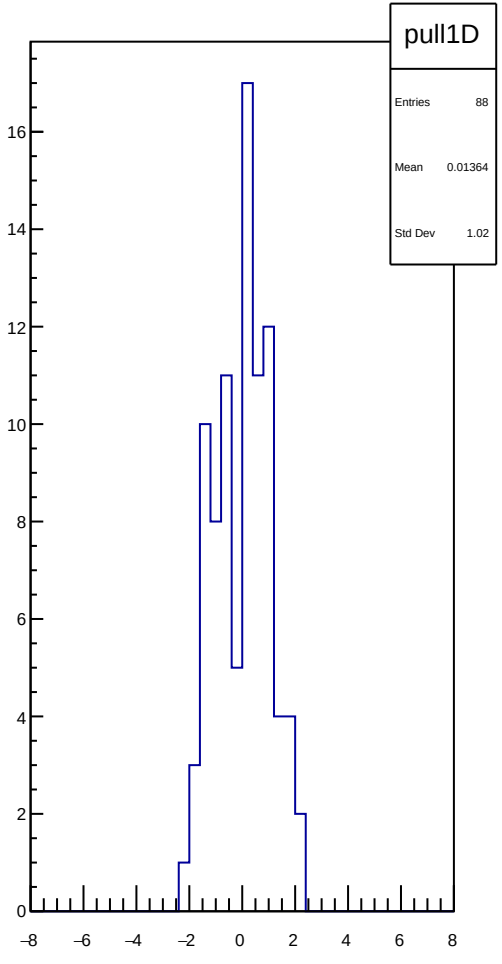

pull1D
Entries 88
Mean 0.01364
Std Dev 1.02

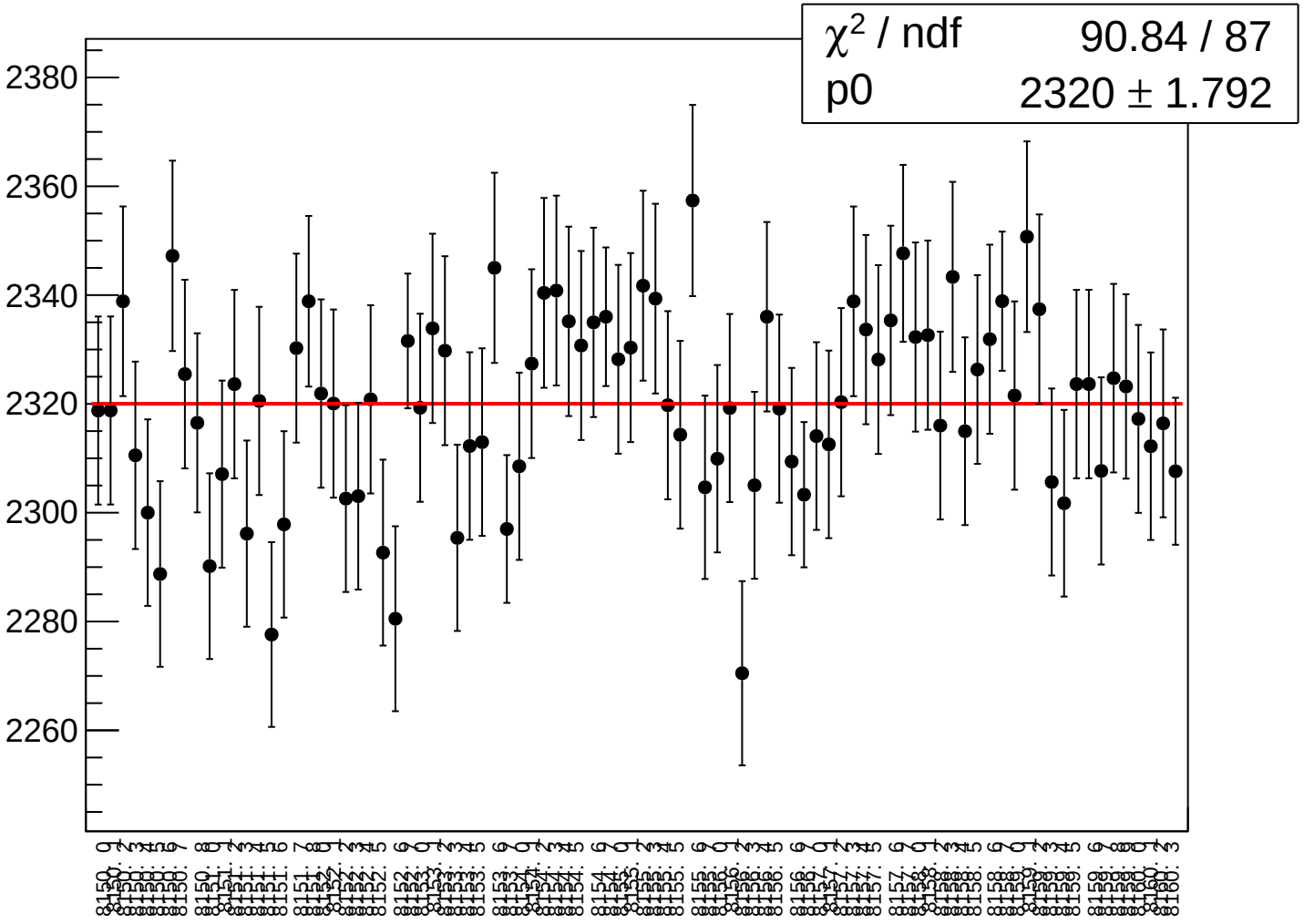

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 90.84 / 87
p0 2320 ± 1.792
2380
2360
2340
2320
2300
2280
2260

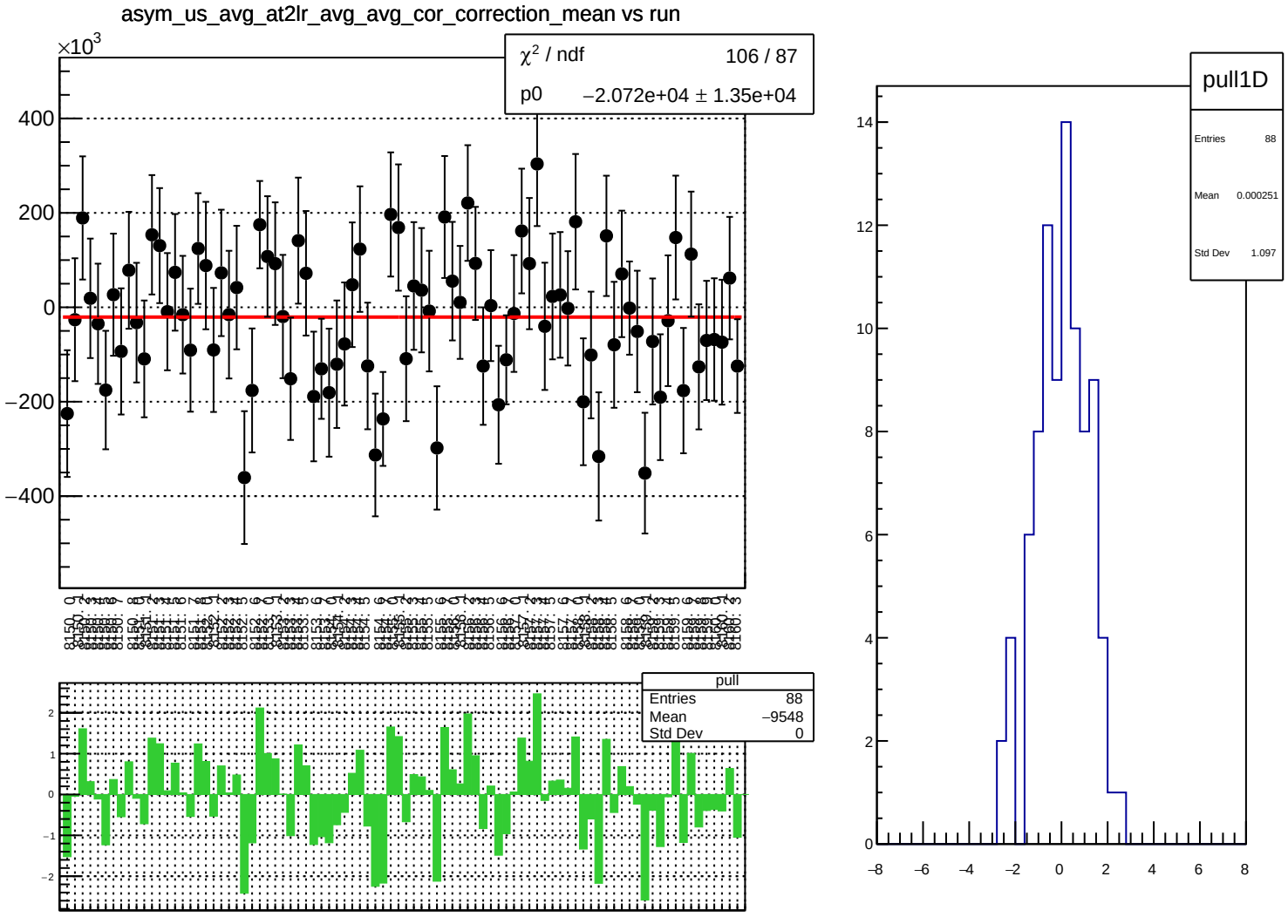

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
χ² / ndf 106 / 87
p0 −2.072e+04 ± 1.35e+04
×10³
400
200
0
−200
−400
pull
Entries 88
Mean −9572
Std Dev 0
pull1D
Entries 88
Mean 0.0002504
Std Dev 1.097

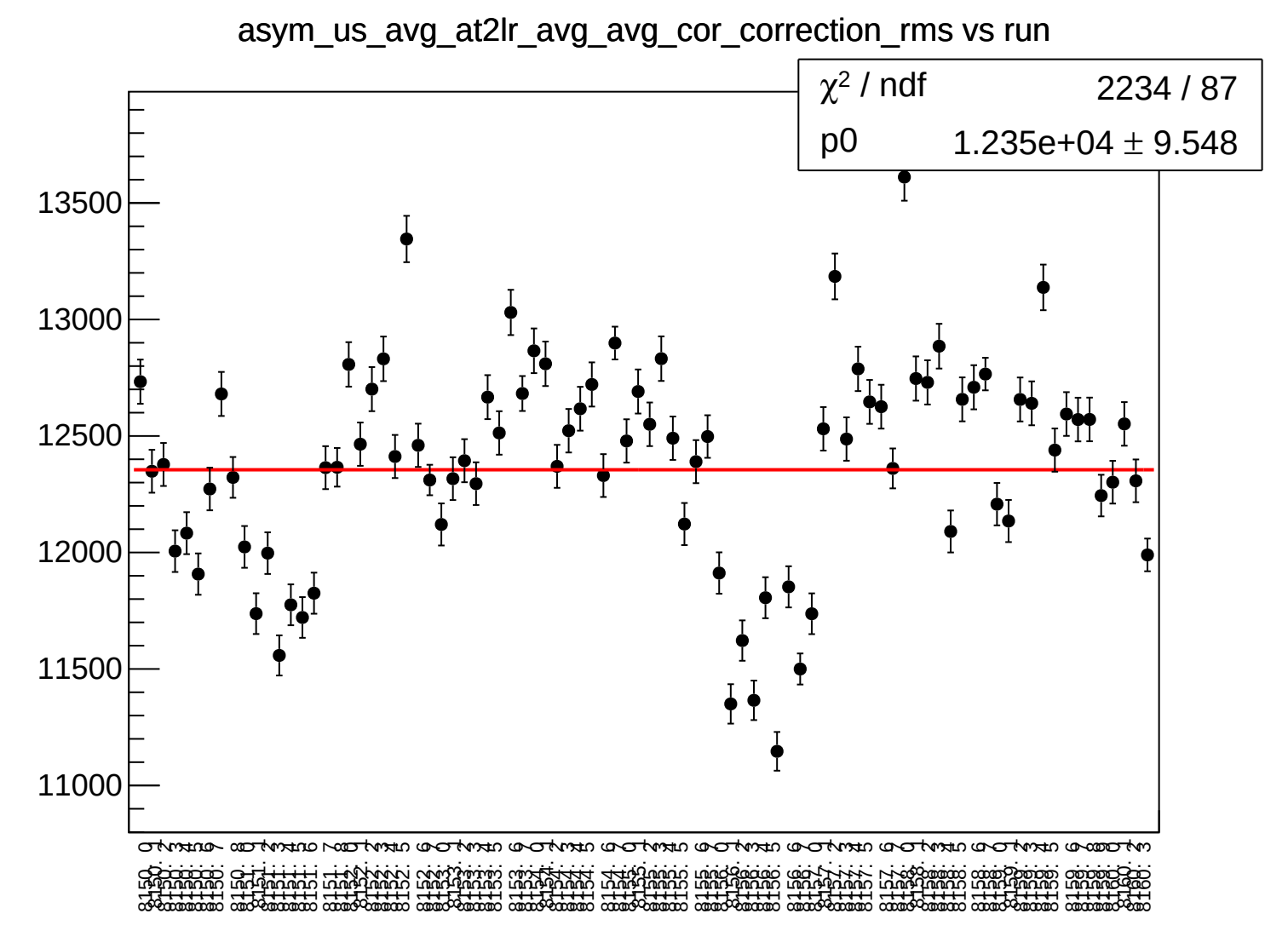

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 2234 / 87
p0 1.235e+04 ± 9.548
13500
13000
12500
12000
11500
11000

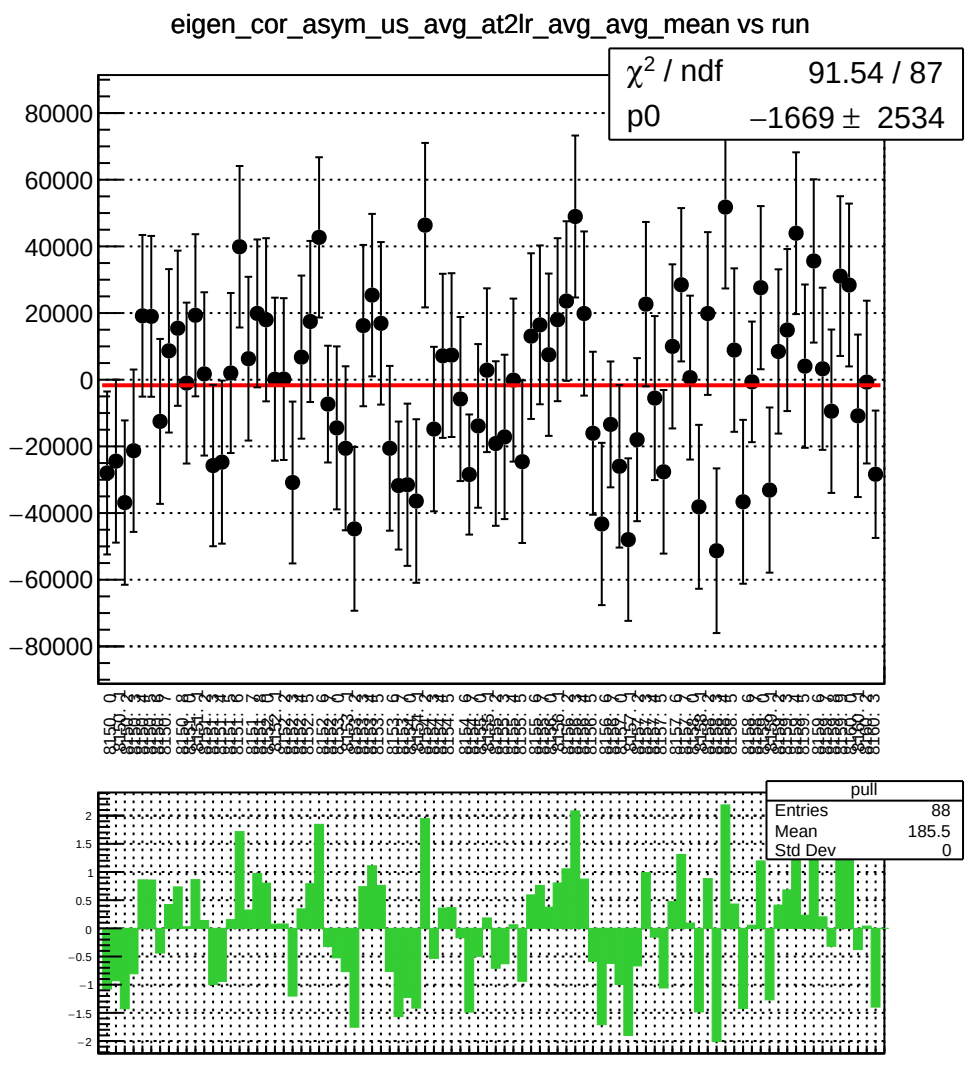

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 91.54 / 87
p0 −1669 ± 2534
pull
Entries 88
Mean 185.5
Std Dev 0

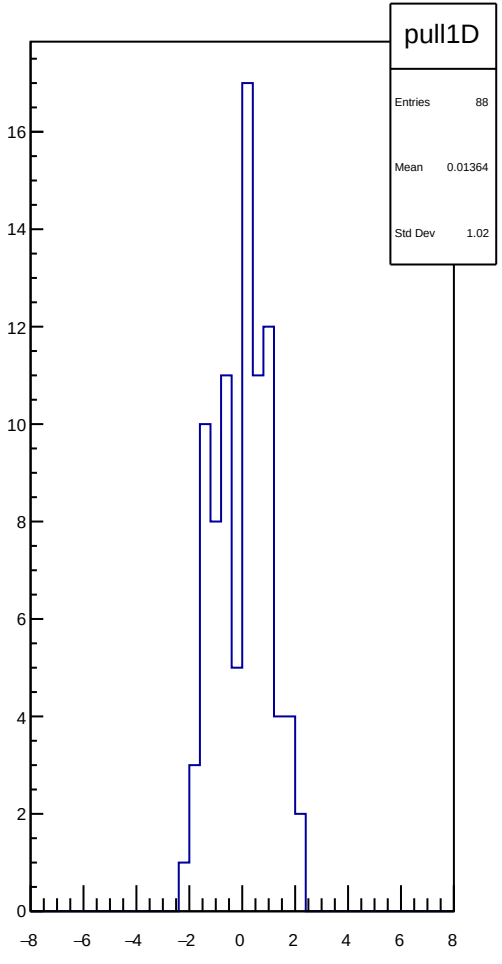

pull1D
Entries 88
Mean 0.01364
Std Dev 1.02

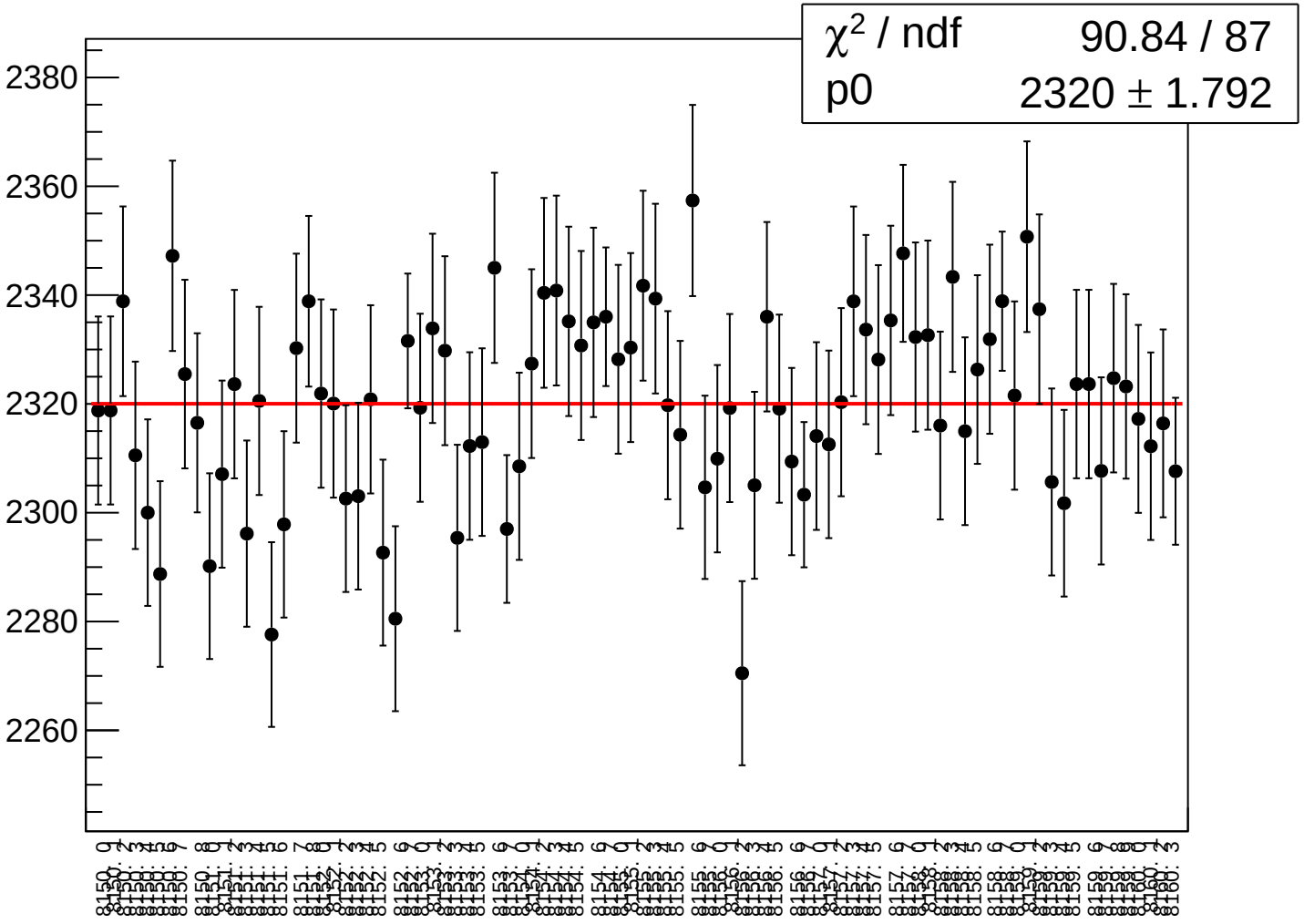

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 90.84 / 87
p0 2320 ± 1.792
2380
2360
2340
2320
2300
2280
2260

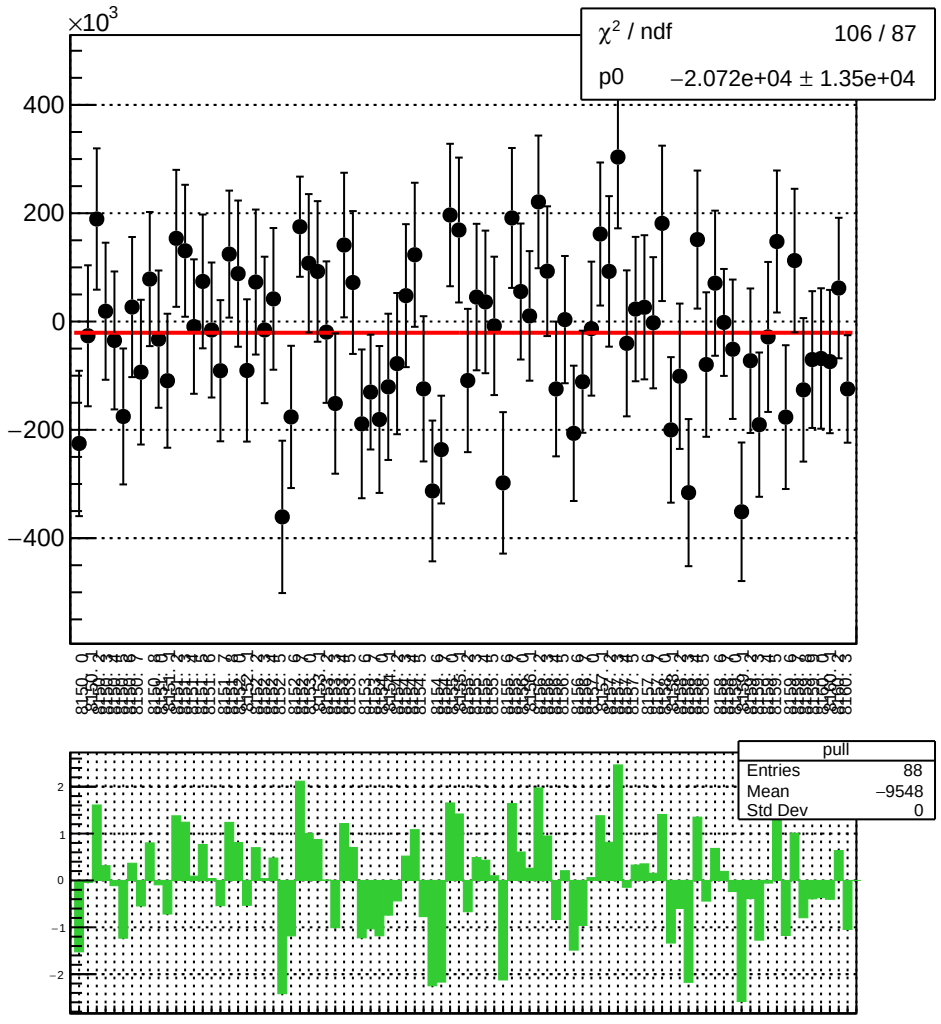

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
400
200
0
−200
−400
χ² / ndf 106 / 87
p0 −2.072e+04 ± 1.35e+04
pull
Entries 88
Mean −9548
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.000251
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

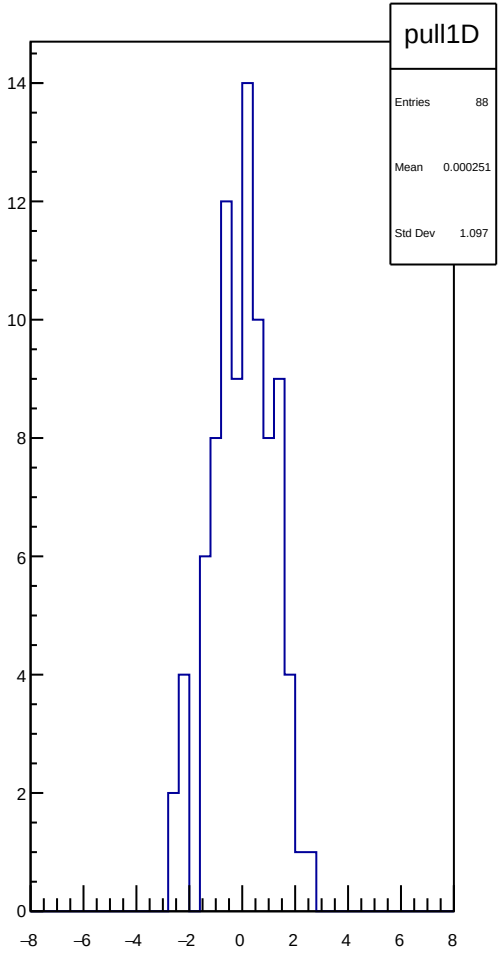

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 2234 / 87
p0 1.235e+04 ± 9.548
13500
13000
12500
12000
11500
11000

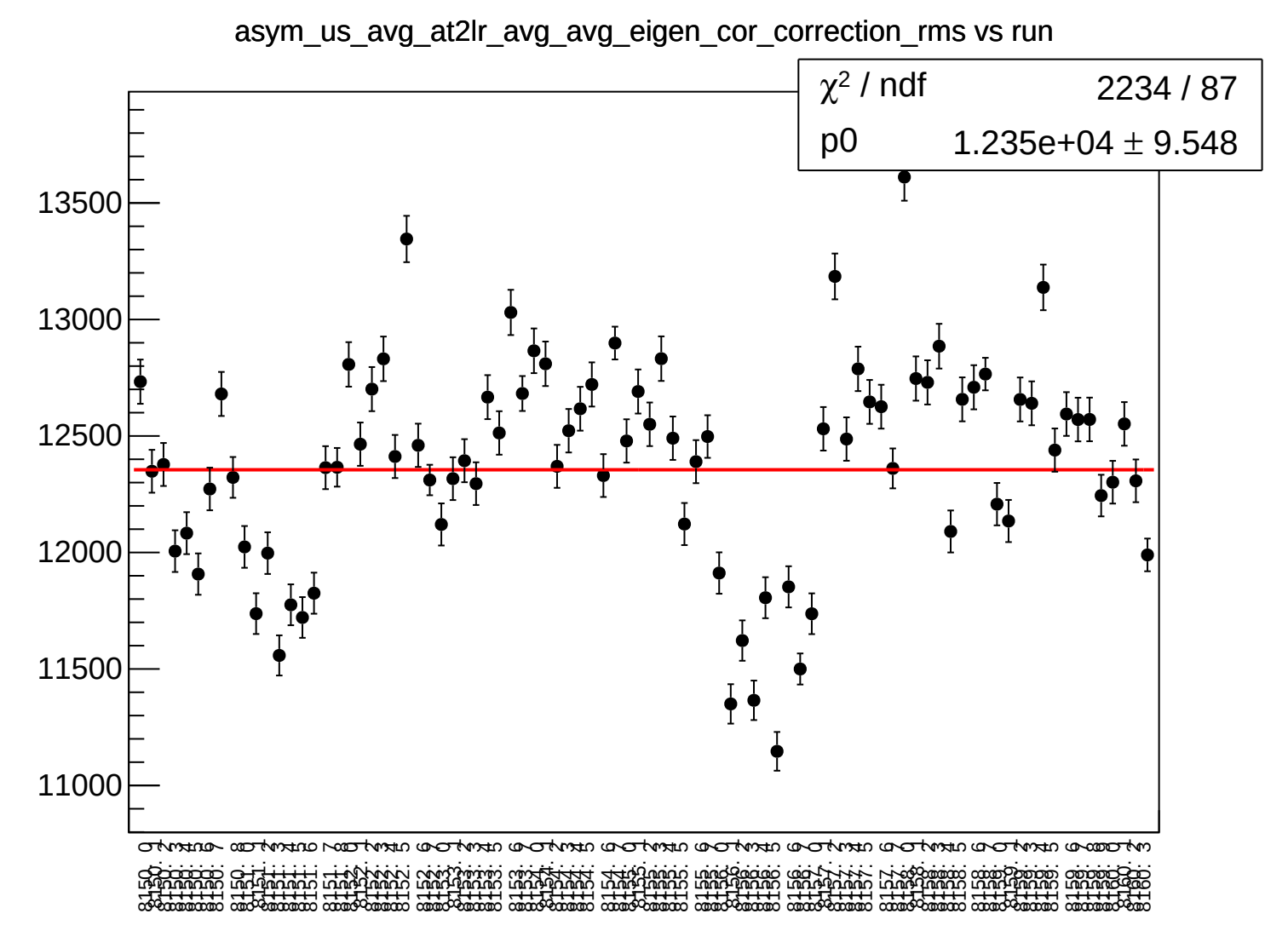

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 91.54 / 87
p0 −1669 ± 2534
pull
Entries 88
Mean 185.5
Std Dev 0

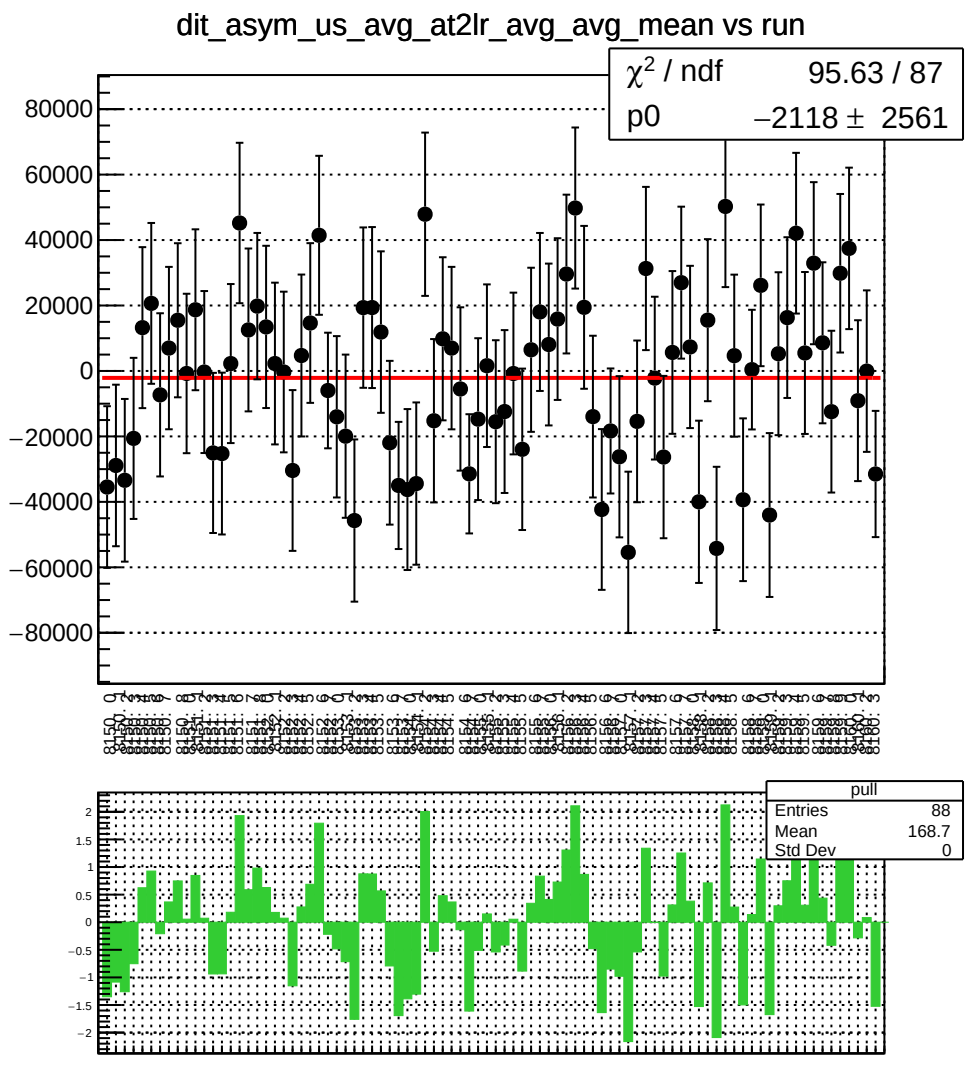

pull1D
Entries 88
Mean 0.01364
Std Dev 1.02

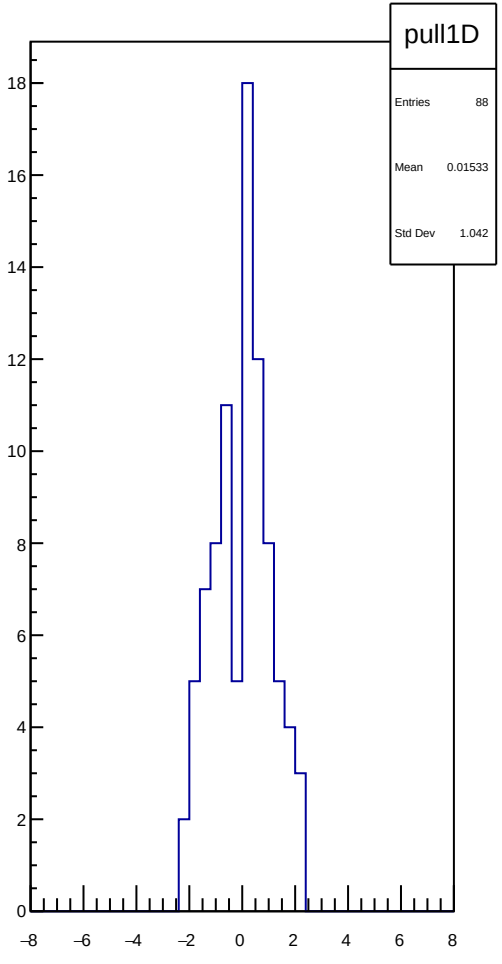

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 90.84 / 87
p0 2320 ± 1.792
2380
2360
2340
2320
2300
2280
2260

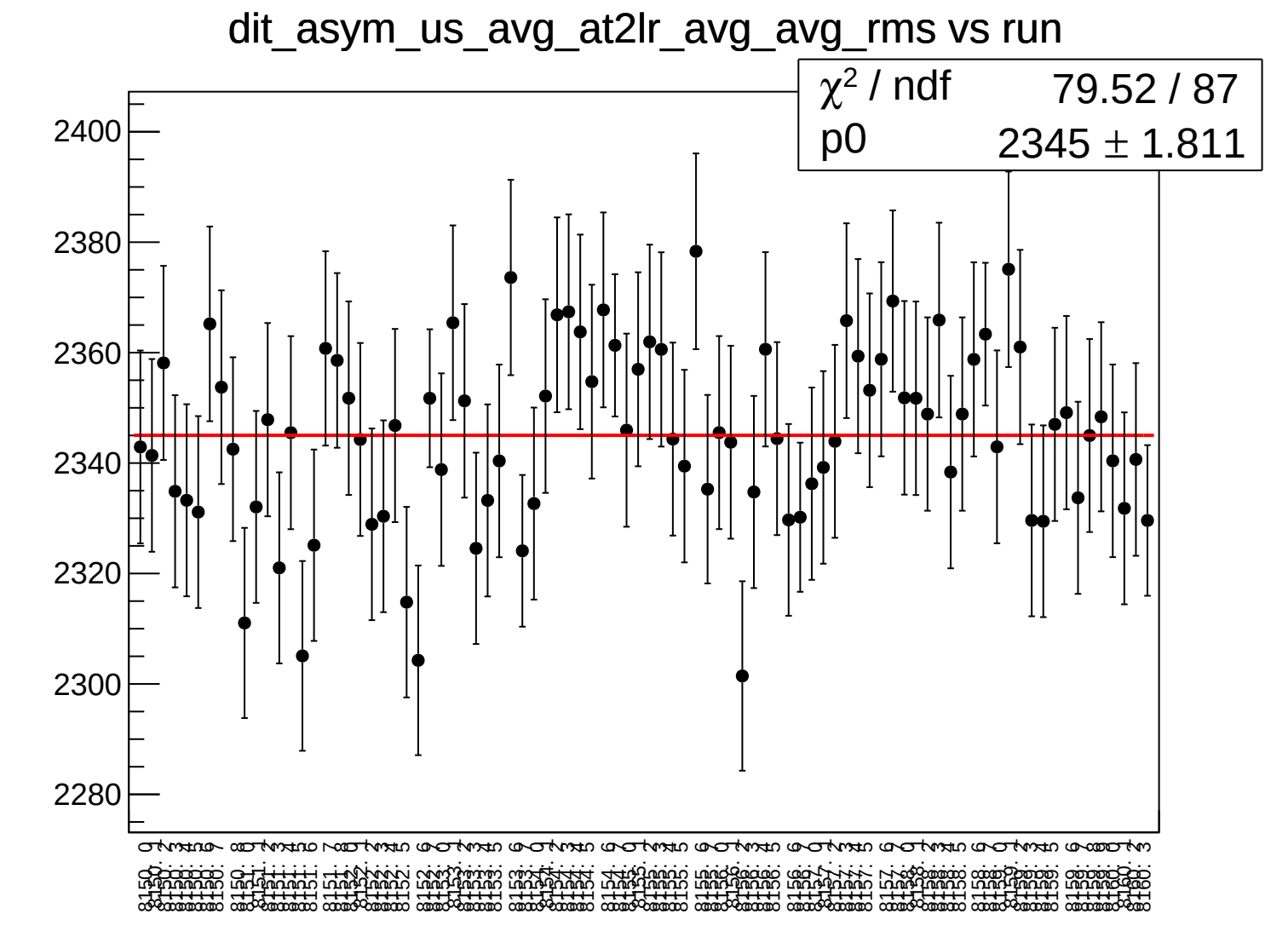

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106 / 87
p0 −2.072e+04 ± 1.35e+04
400
200
0
−200
−400
pull
Entries 88
Mean −9548
Std Dev 0
2
1
0
−1
−2

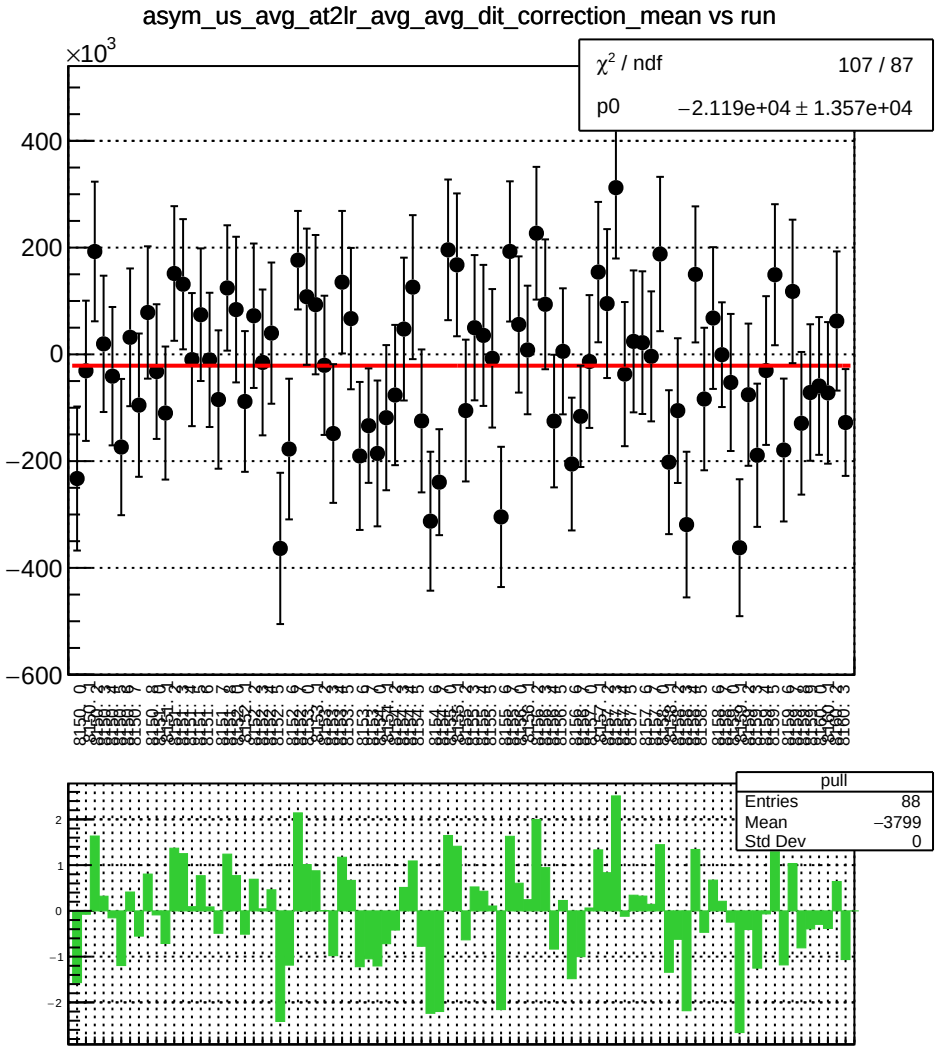

pull1D
Entries 88
Mean 0.000251
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

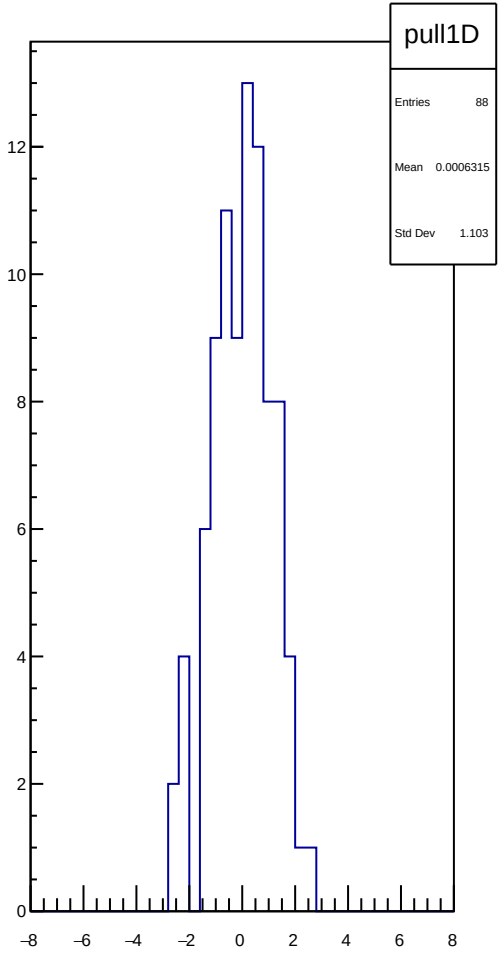

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2234 / 87
p0 1.235e+04 ± 9.548
13500
13000
12500
12000
11500
11000

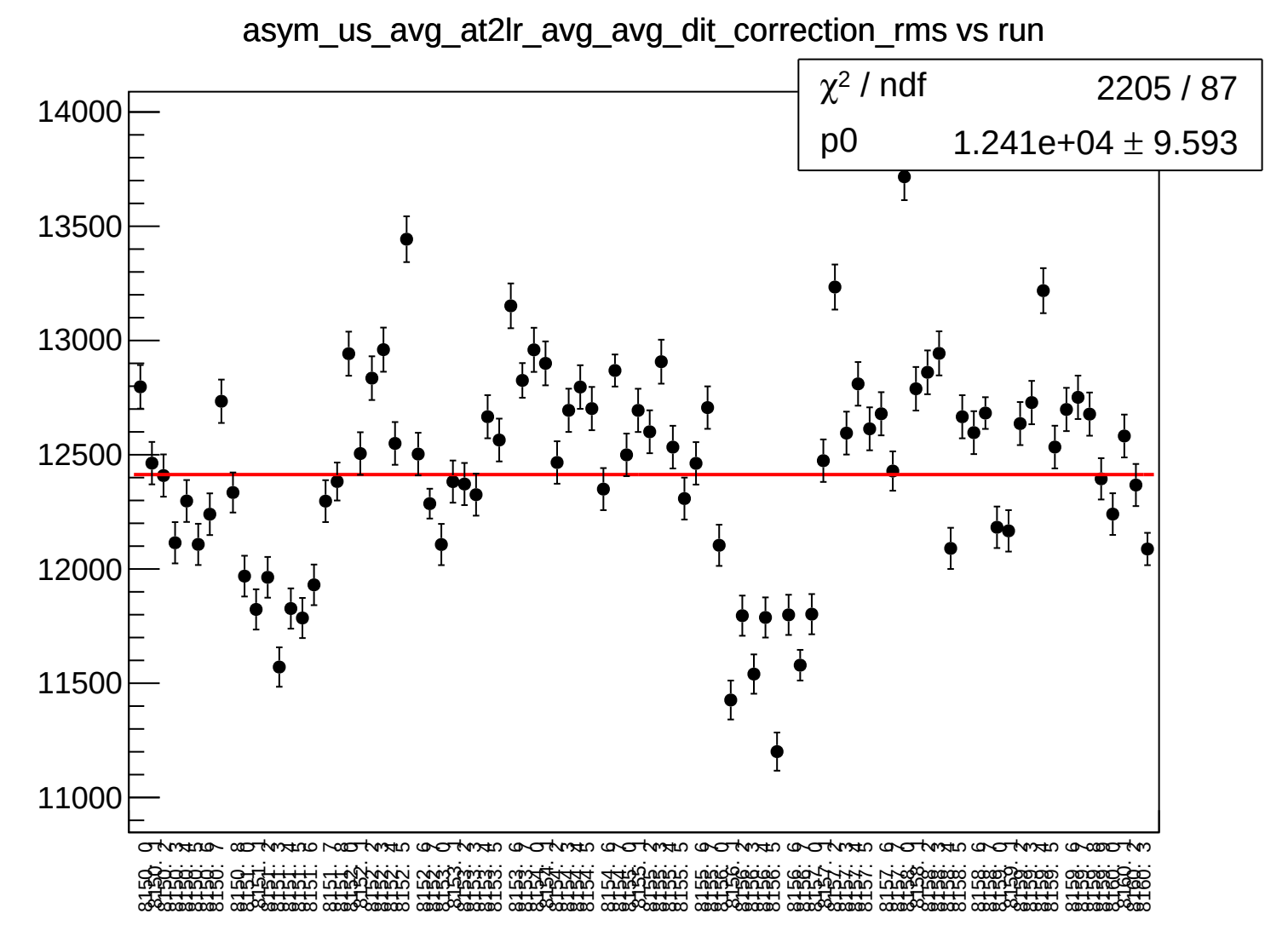

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 95.63 / 87
p0 −2118 ± 2561
pull
Entries 88
Mean 168.7
Std Dev 0

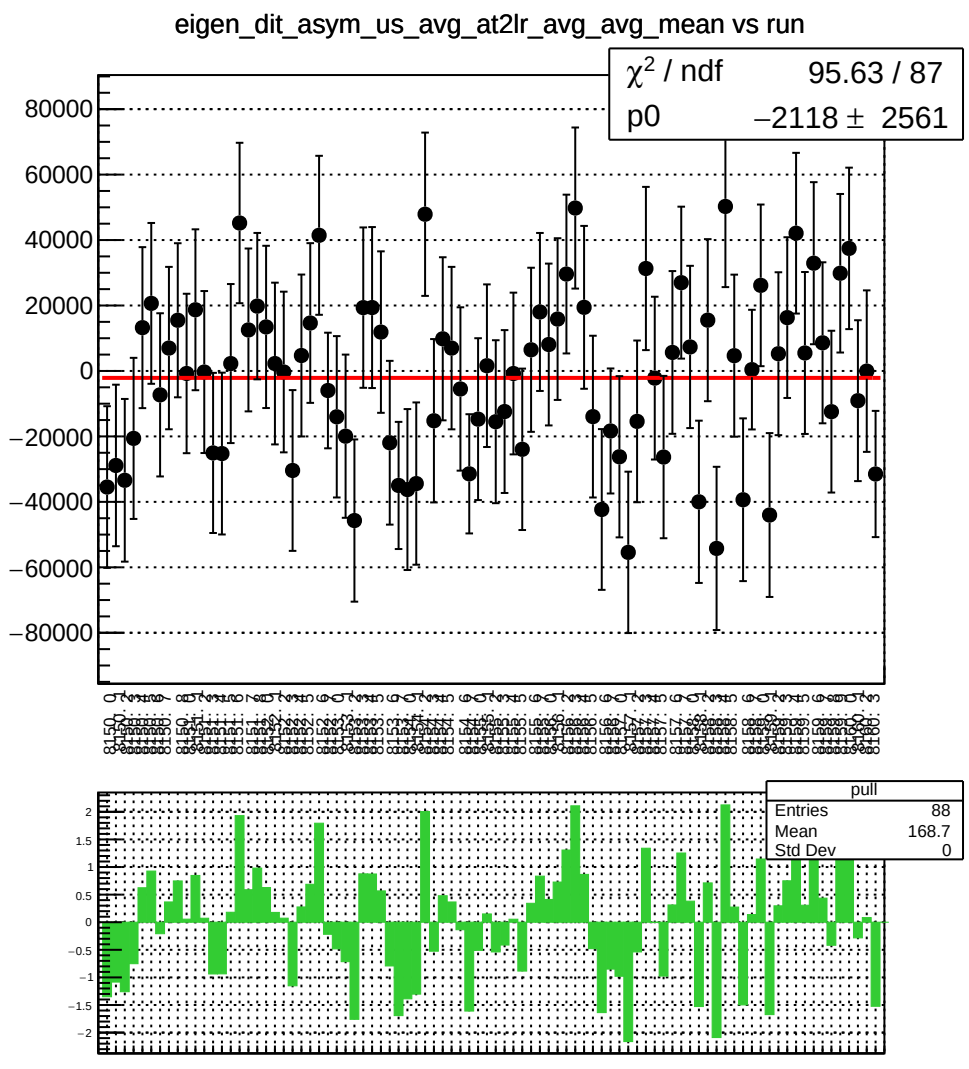

pull1D
Entries 88
Mean 0.01533
Std Dev 1.042

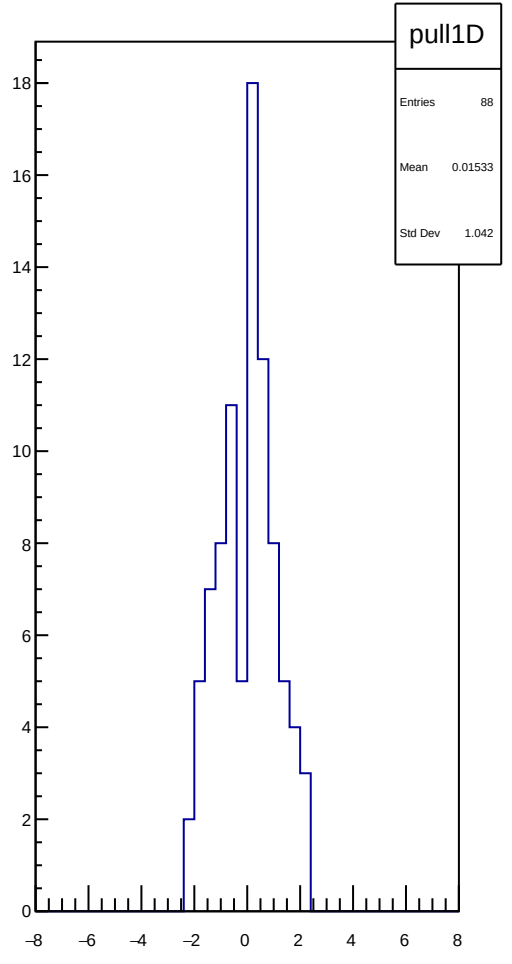

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 79.52 / 87
p0 2345 ± 1.811
2400
2380
2360
2340
2320
2300
2280

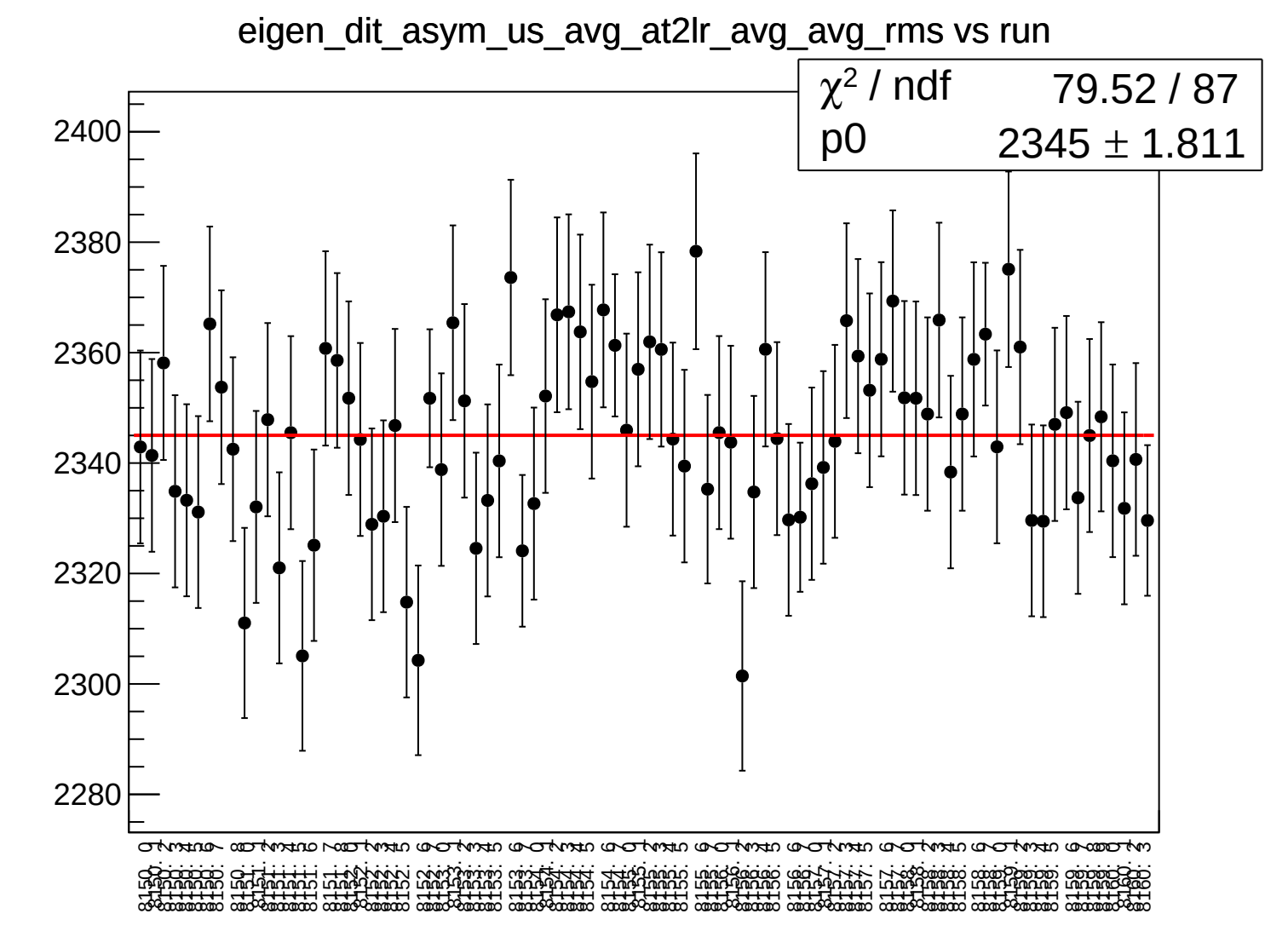

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 87
p0 −2.119e+04 ± 1.357e+04
400
200
0
−200
−400
−600
pull
Entries 88
Mean −3799
Std Dev 0
2
1
0
−1
−2

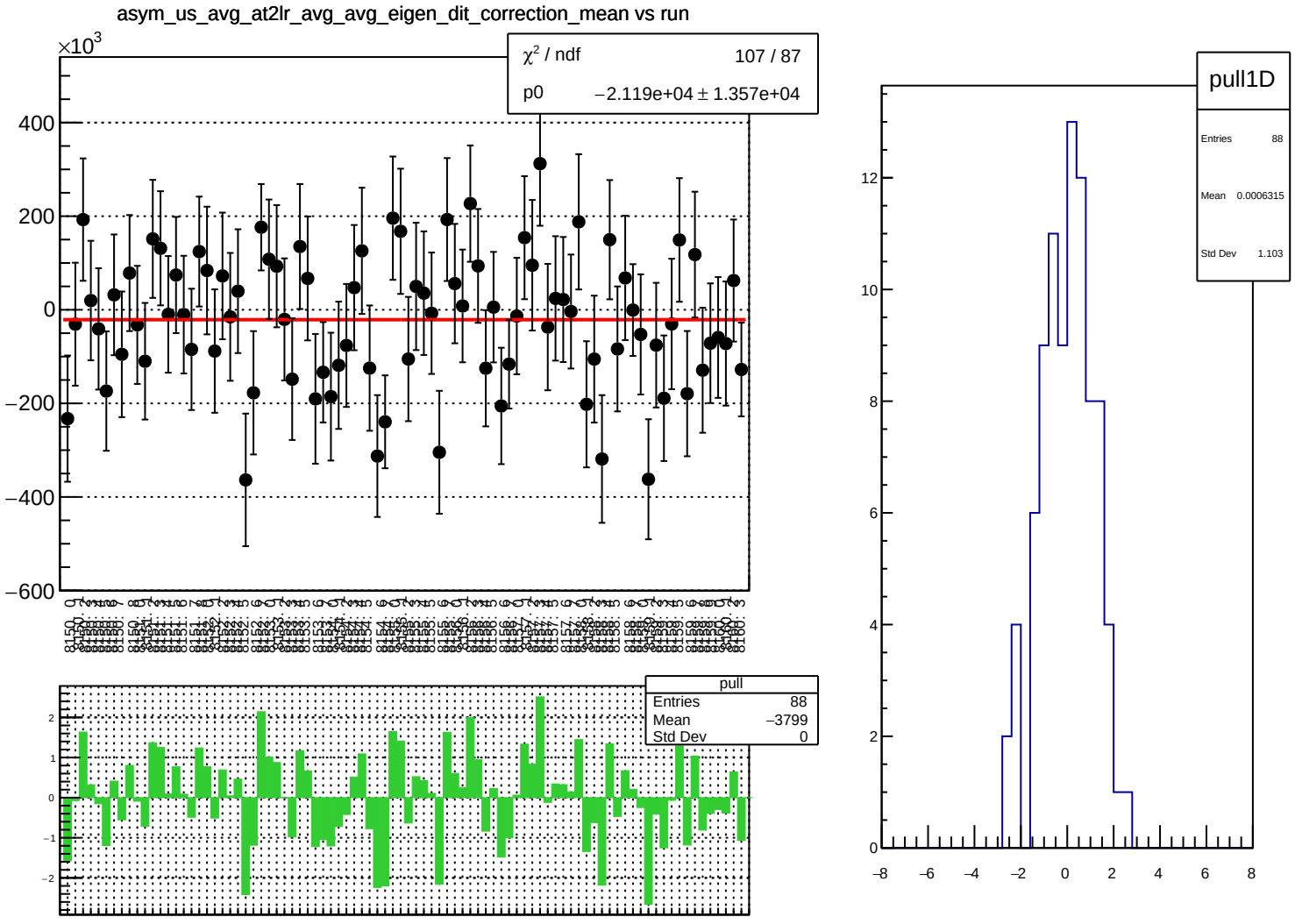

pull1D
Entries 88
Mean 0.0006315
Std Dev 1.103
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

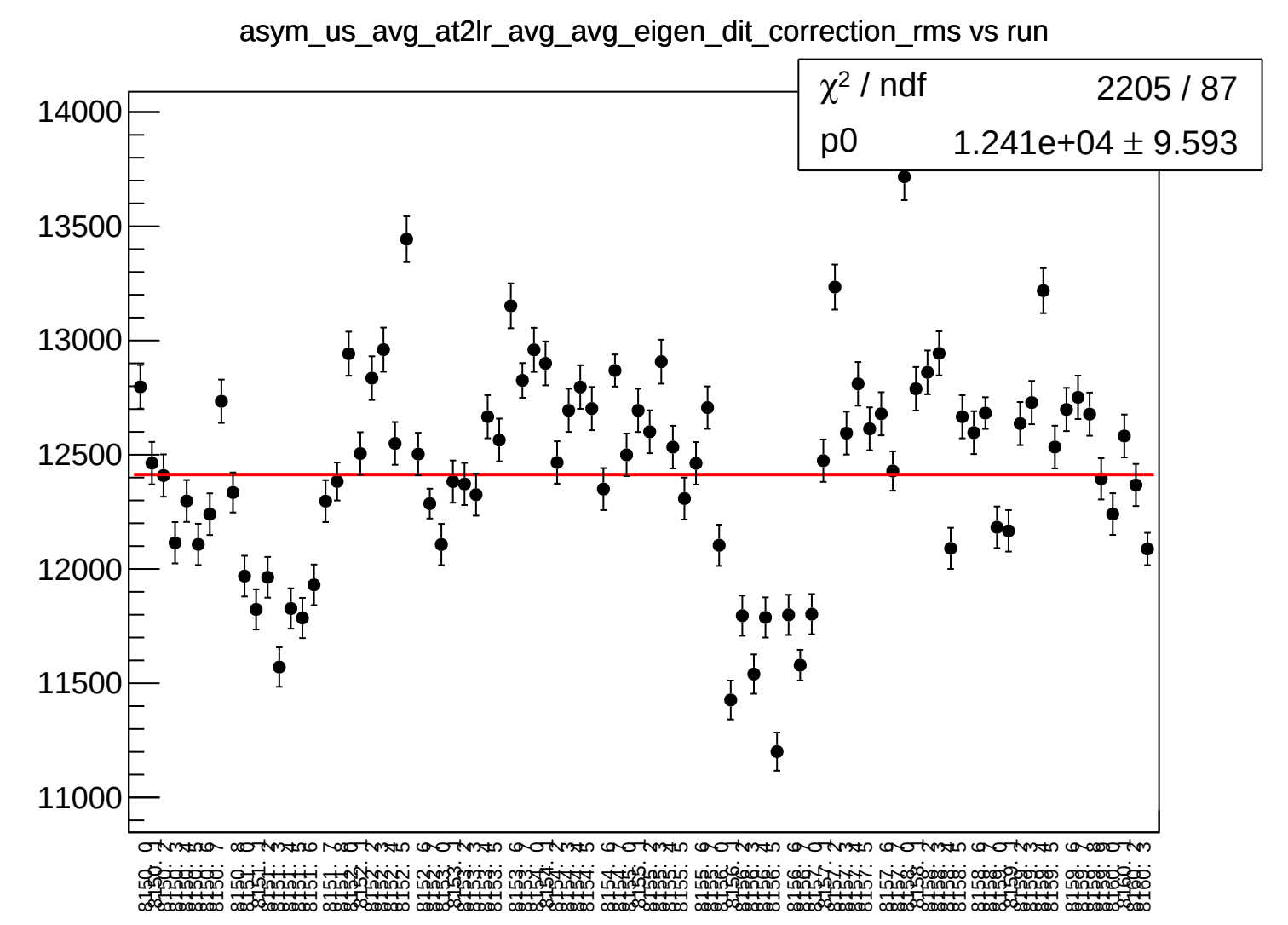

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2205 / 87
p0 1.241e+04 ± 9.593
14000
13500
13000
12500
12000
11500
11000

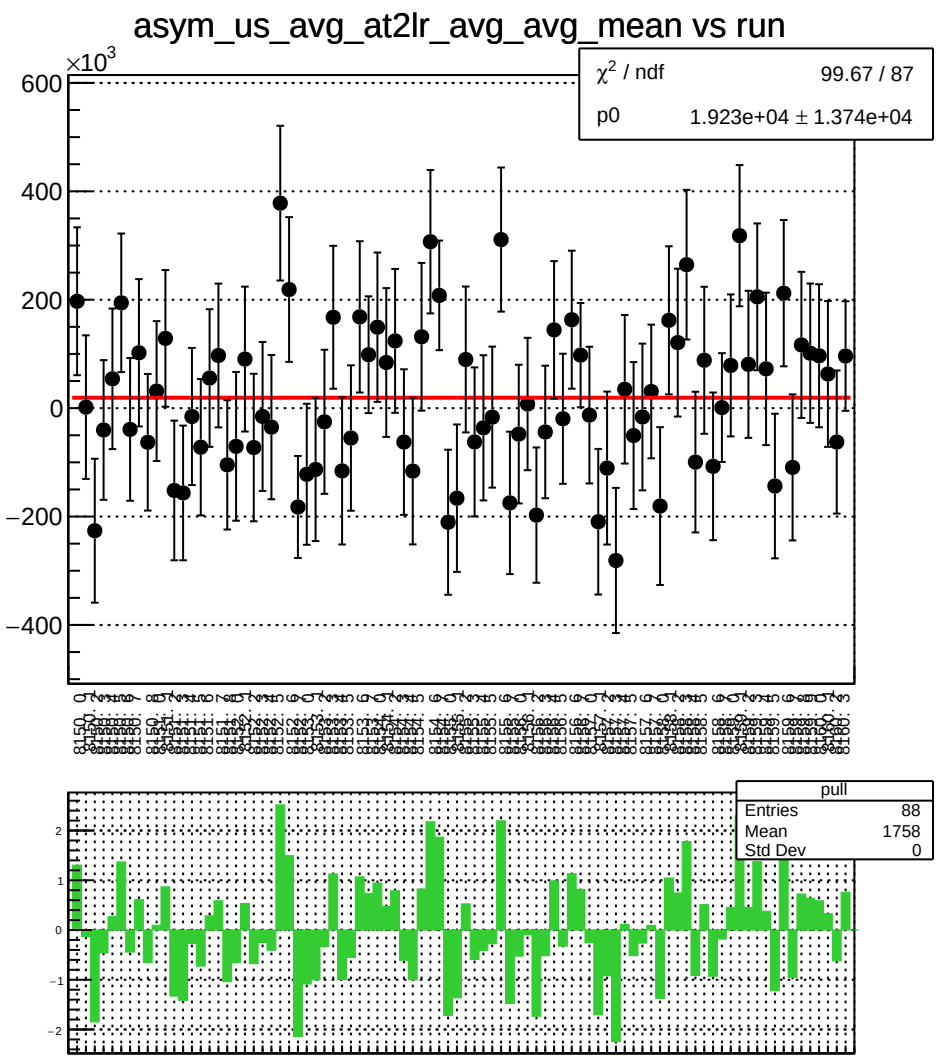

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 95.63 / 87
p0 −2118 ± 2561
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 168.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

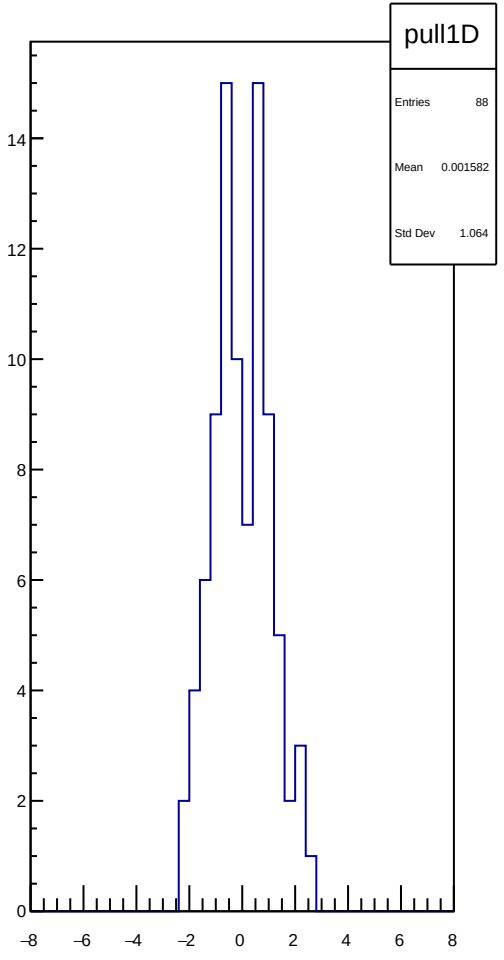

pull1D
Entries 88
Mean 0.01533
Std Dev 1.042
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

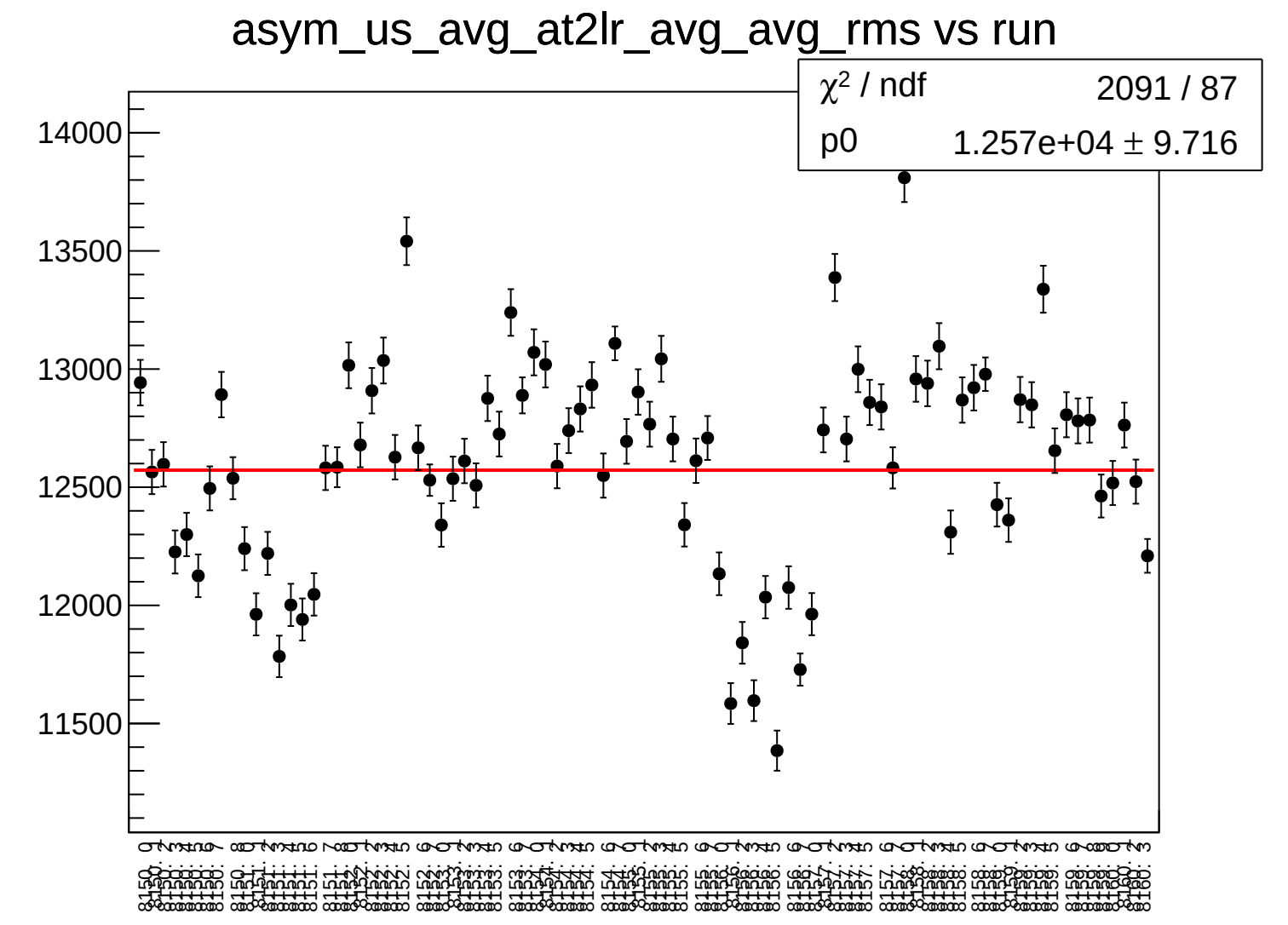

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 79.52 / 87
p0 2345 ± 1.811
2400
2380
2360
2340
2320
2300
2280

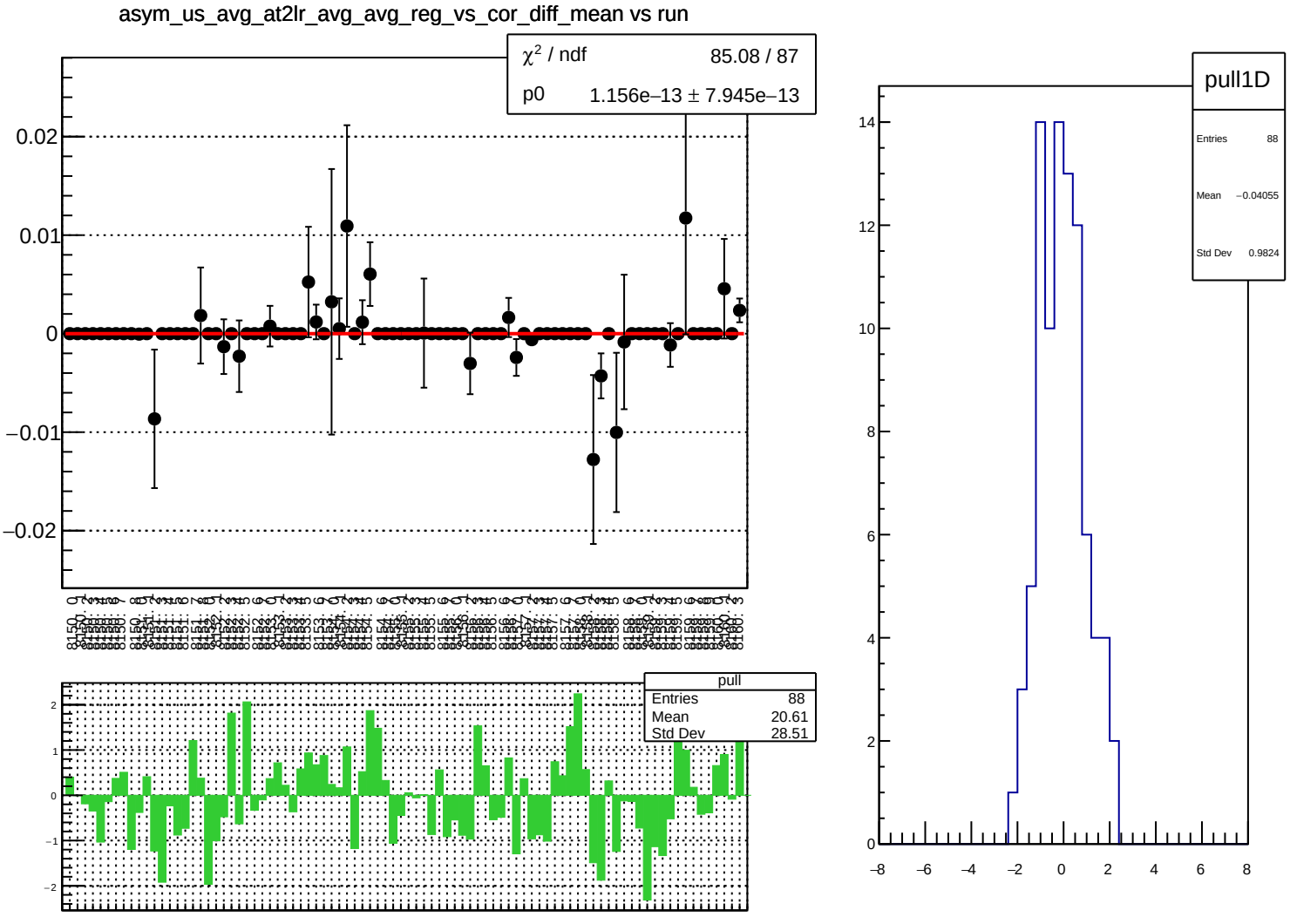

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 87
p0 −2.119e+04 ± 1.357e+04
400
200
0
−200
−400
−600
pull
Entries 88
Mean −3799
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0006315
Std Dev 1.103
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

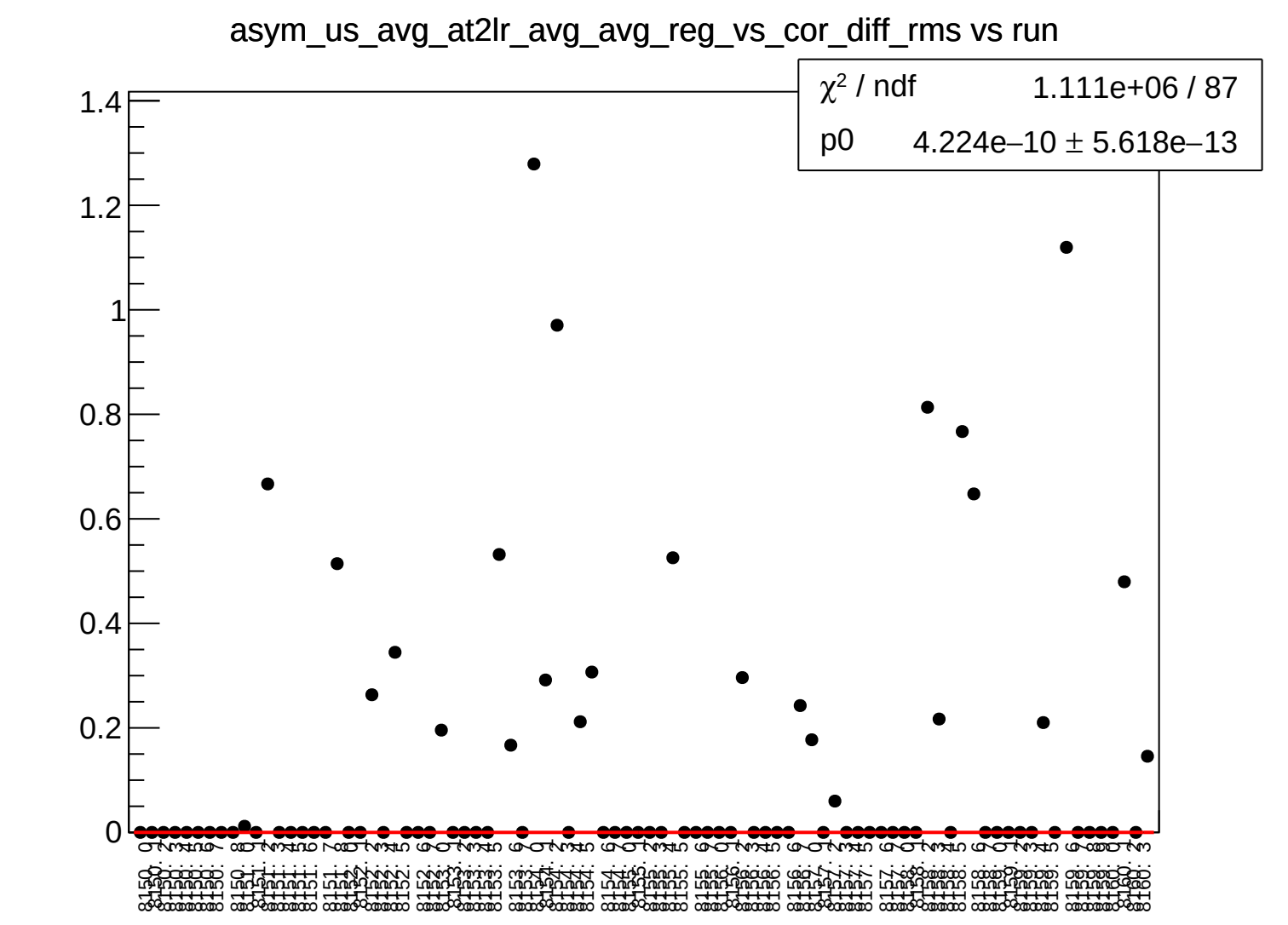

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2205 / 87
p0 1.241e+04 ± 9.593
14000
13500
13000
12500
12000
11500
11000

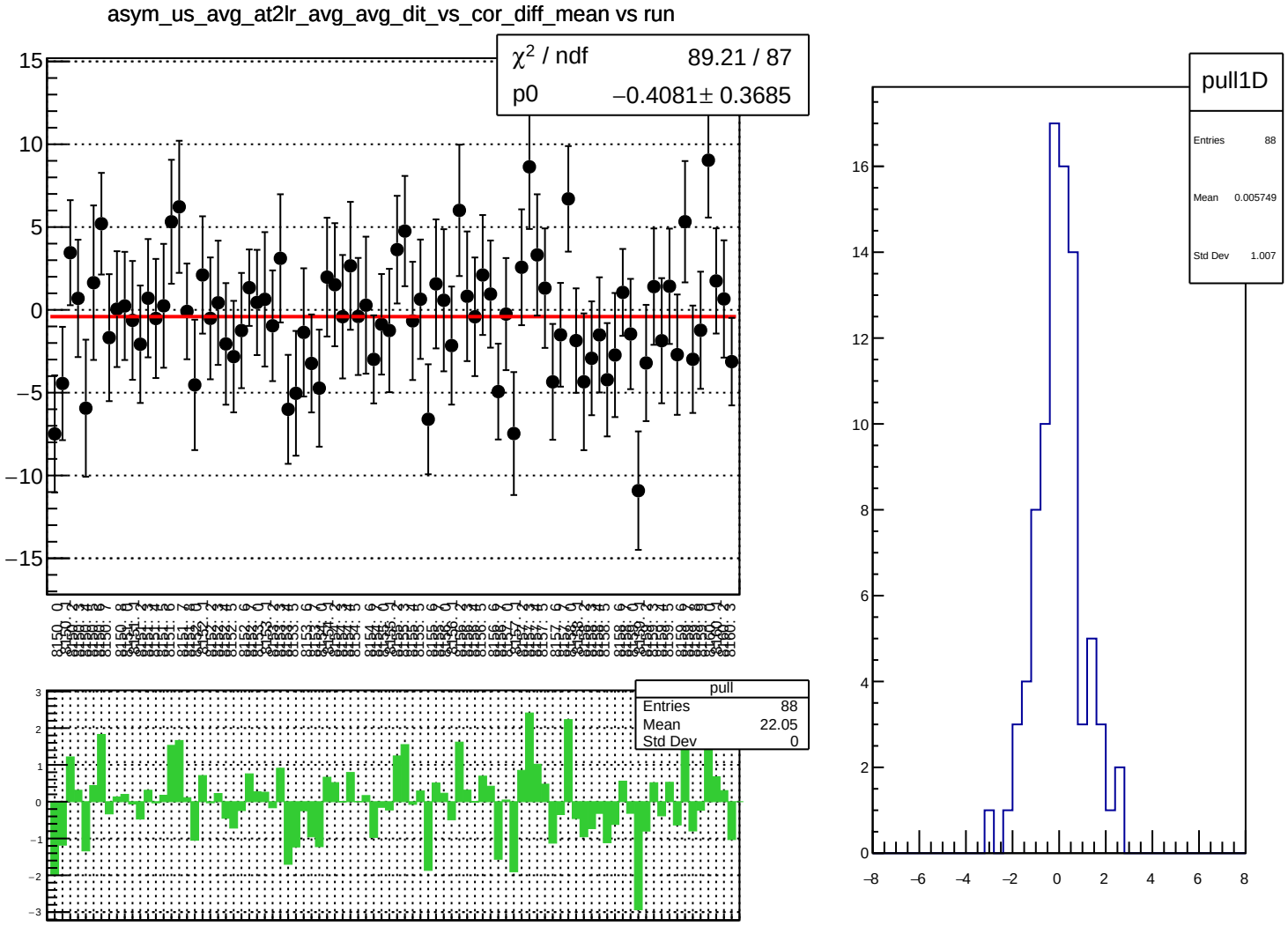

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 99.67 / 87
p0 1.923e+04 ± 1.374e+04
pull
Entries 88
Mean 1758
Std Dev 0
2
1
0
−1
−2

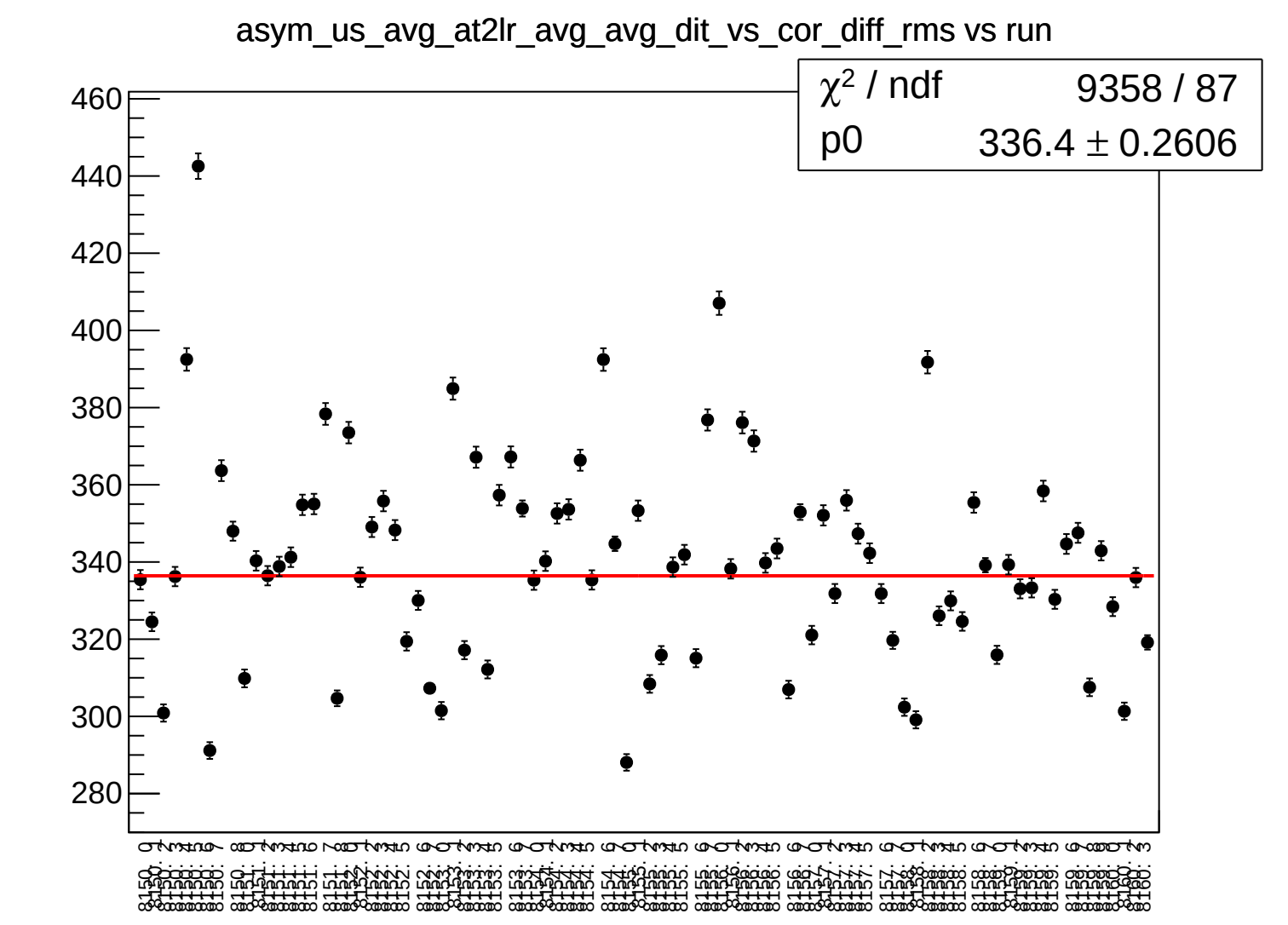

pull1D
Entries 88
Mean 0.001582
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

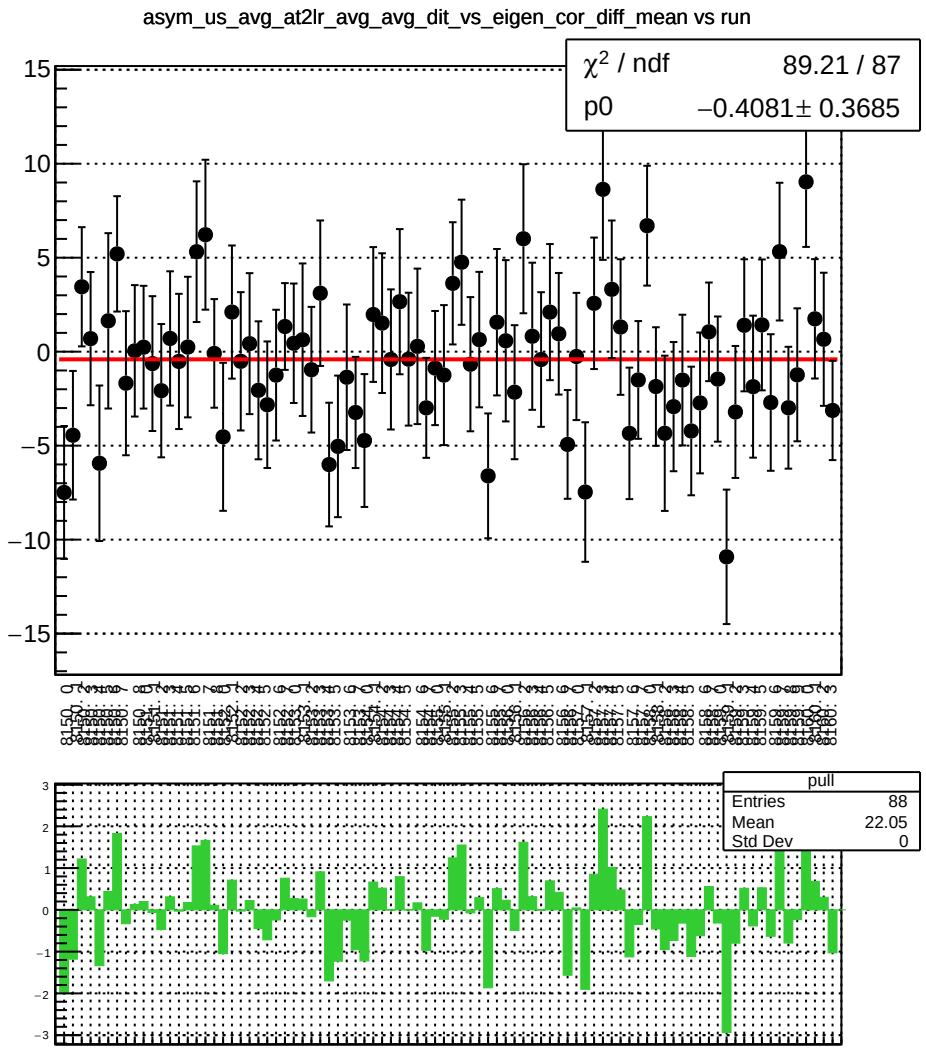

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2091 / 87
p0 1.257e+04 ± 9.716
14000
13500
13000
12500
12000
11500

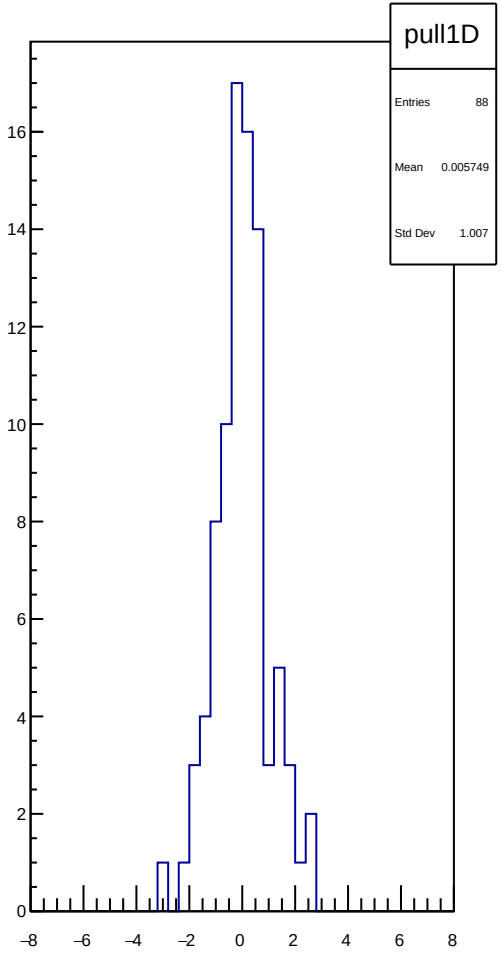

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.08 / 87
p0 1.156e−13 ± 7.945e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 20.61
Std Dev 28.51
pull1D
Entries 88
Mean −0.04055
Std Dev 0.9824

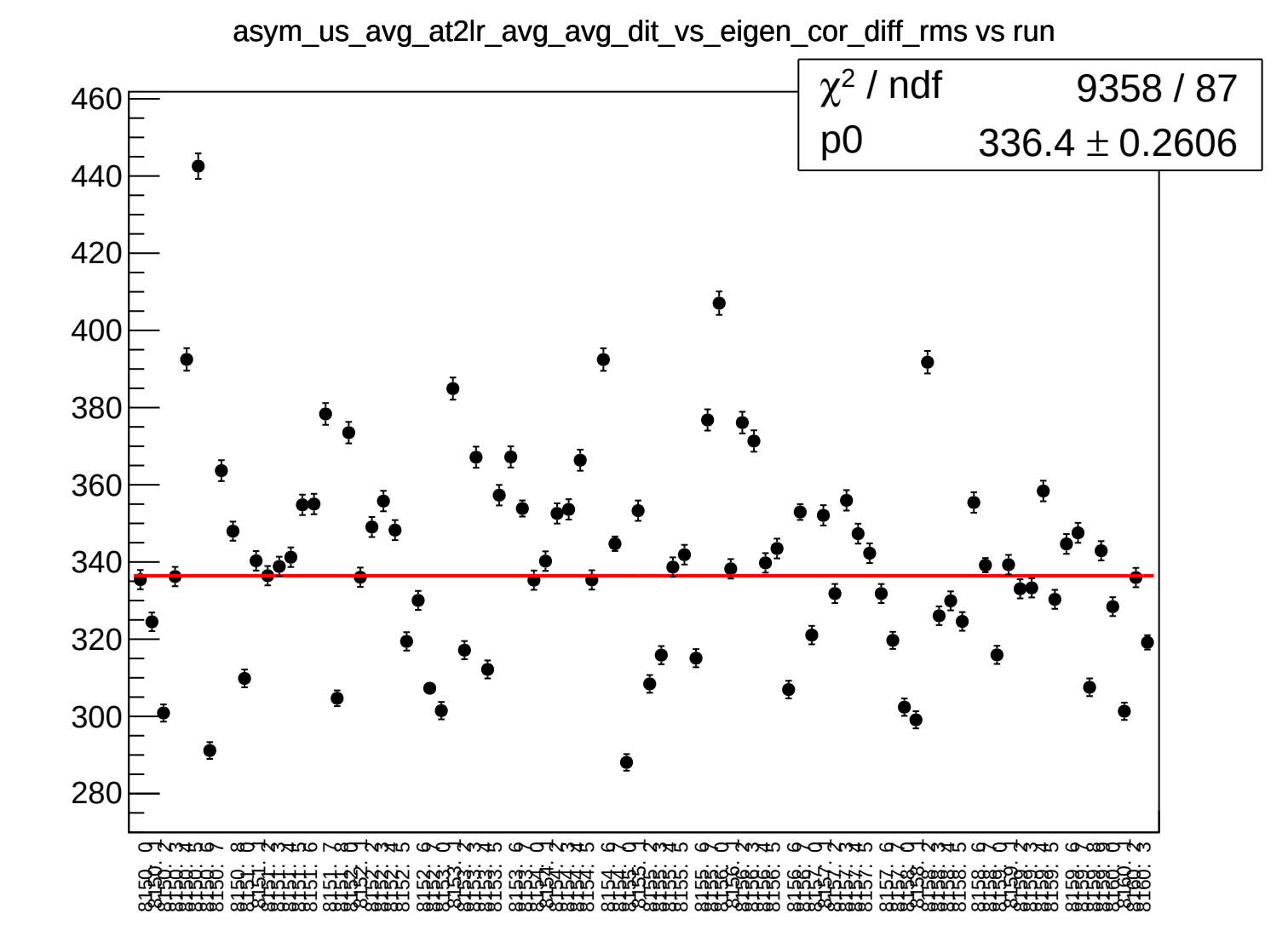

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.111e+06 / 87
p0 4.224e−10 ± 5.618e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

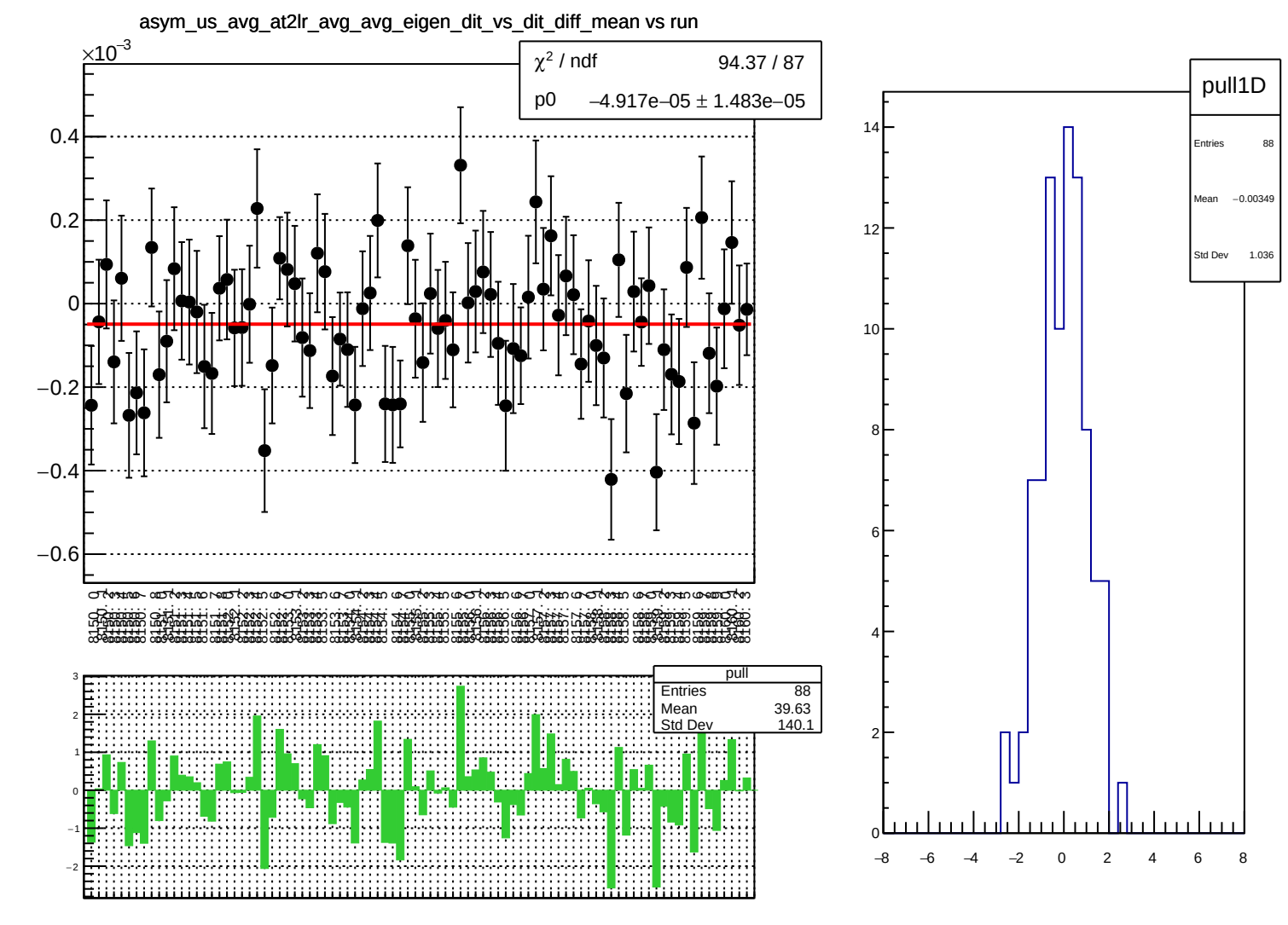

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.21 / 87
p0 −0.4081± 0.3685
pull
Entries 88
Mean 22.05
Std Dev 0
pull1D
Entries 88
Mean 0.005749
Std Dev 1.007

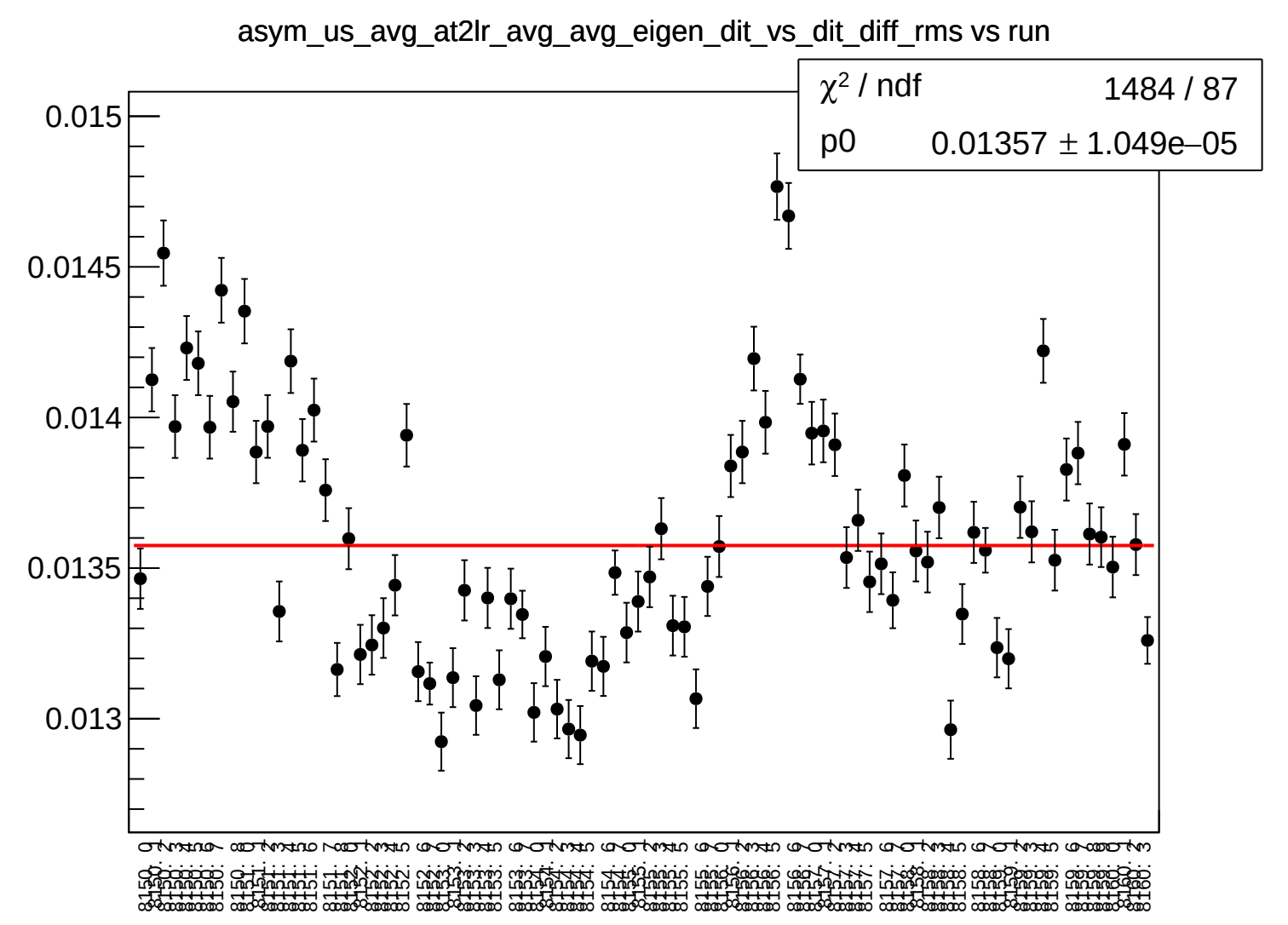

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9358 / 87
p0 336.4 ± 0.2606
460
440
420
400
380
360
340
320
300
280

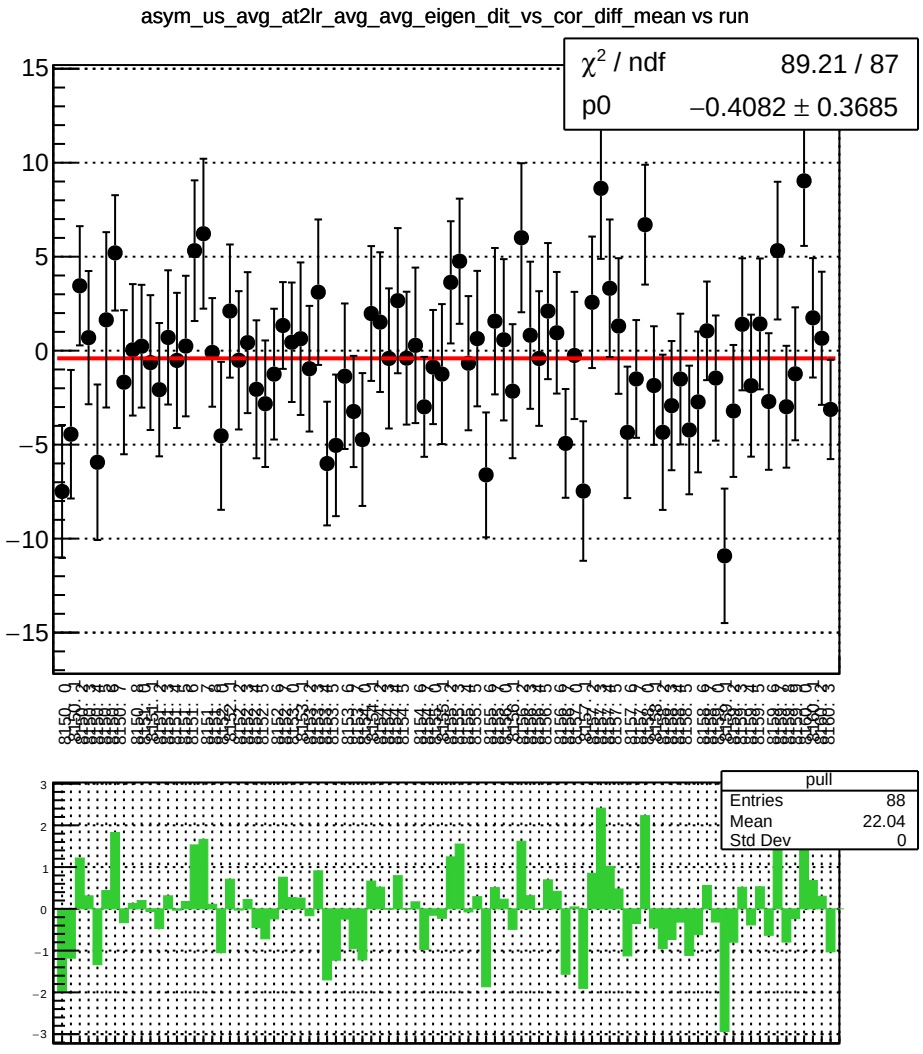

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.21 / 87
p0 −0.4081± 0.3685
pull
Entries 88
Mean 22.05
Std Dev 0

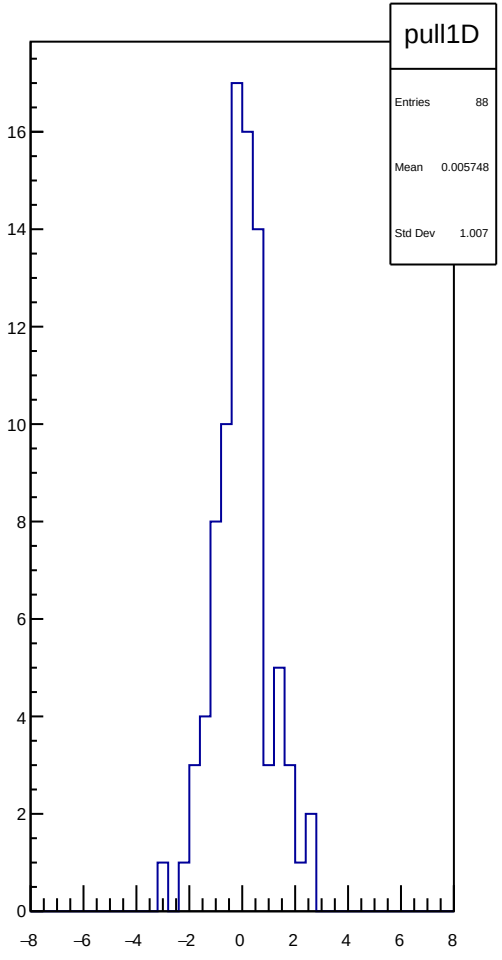

pull1D
Entries 88
Mean 0.005749
Std Dev 1.007

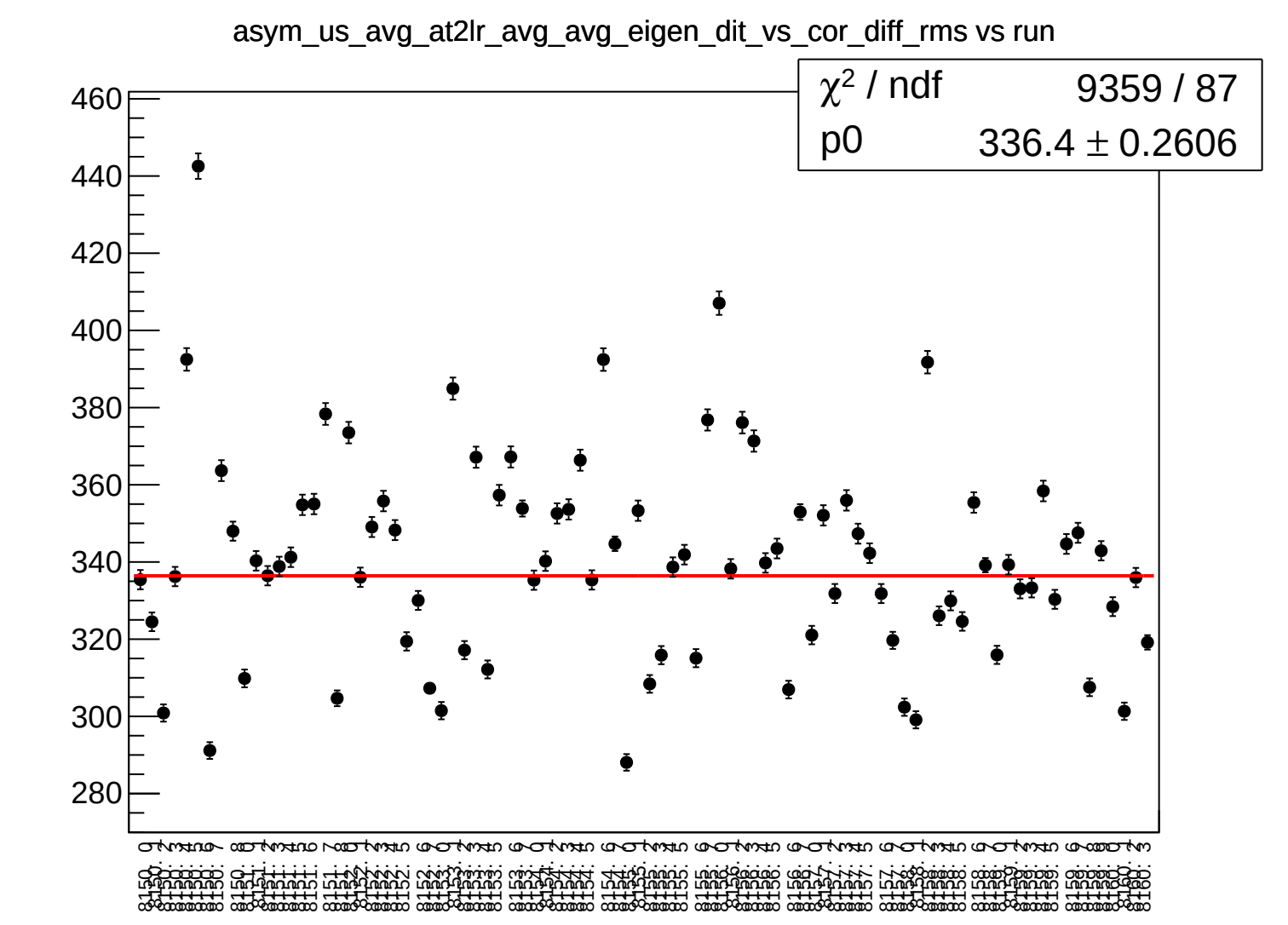

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9358 / 87
p0 336.4 ± 0.2606
460
440
420
400
380
360
340
320
300
280

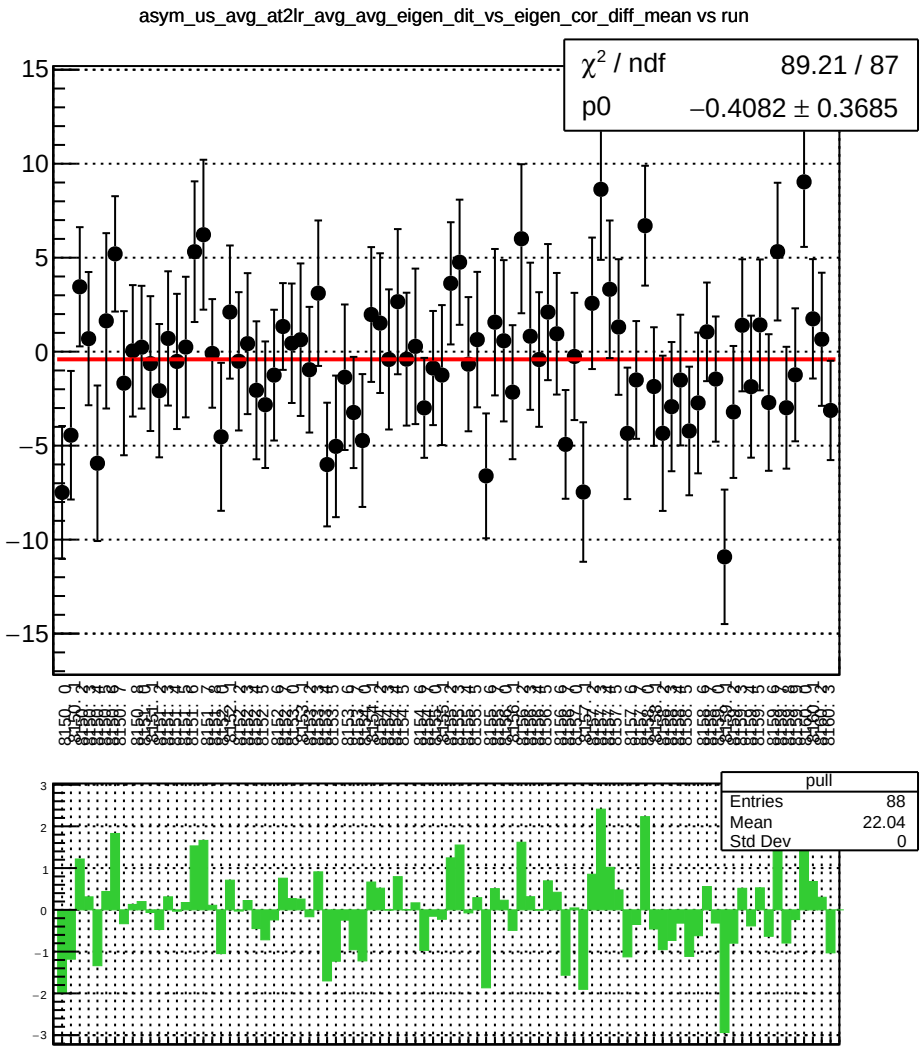

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.37 / 87
p0 −4.917e−05 ± 1.483e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 88
Mean 39.63
Std Dev 140.1
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00349
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

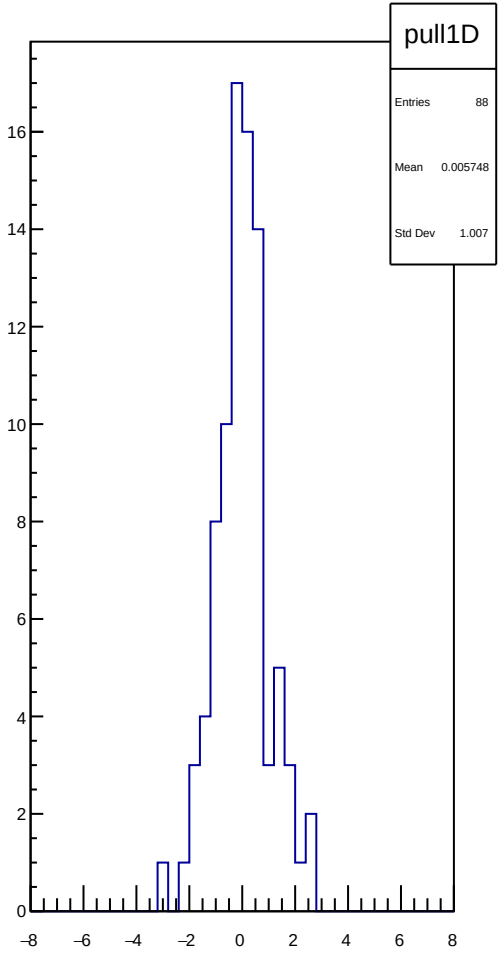

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1484 / 87
p0 0.01357 ± 1.049e−05
0.015
0.0145
0.014
0.0135
0.013

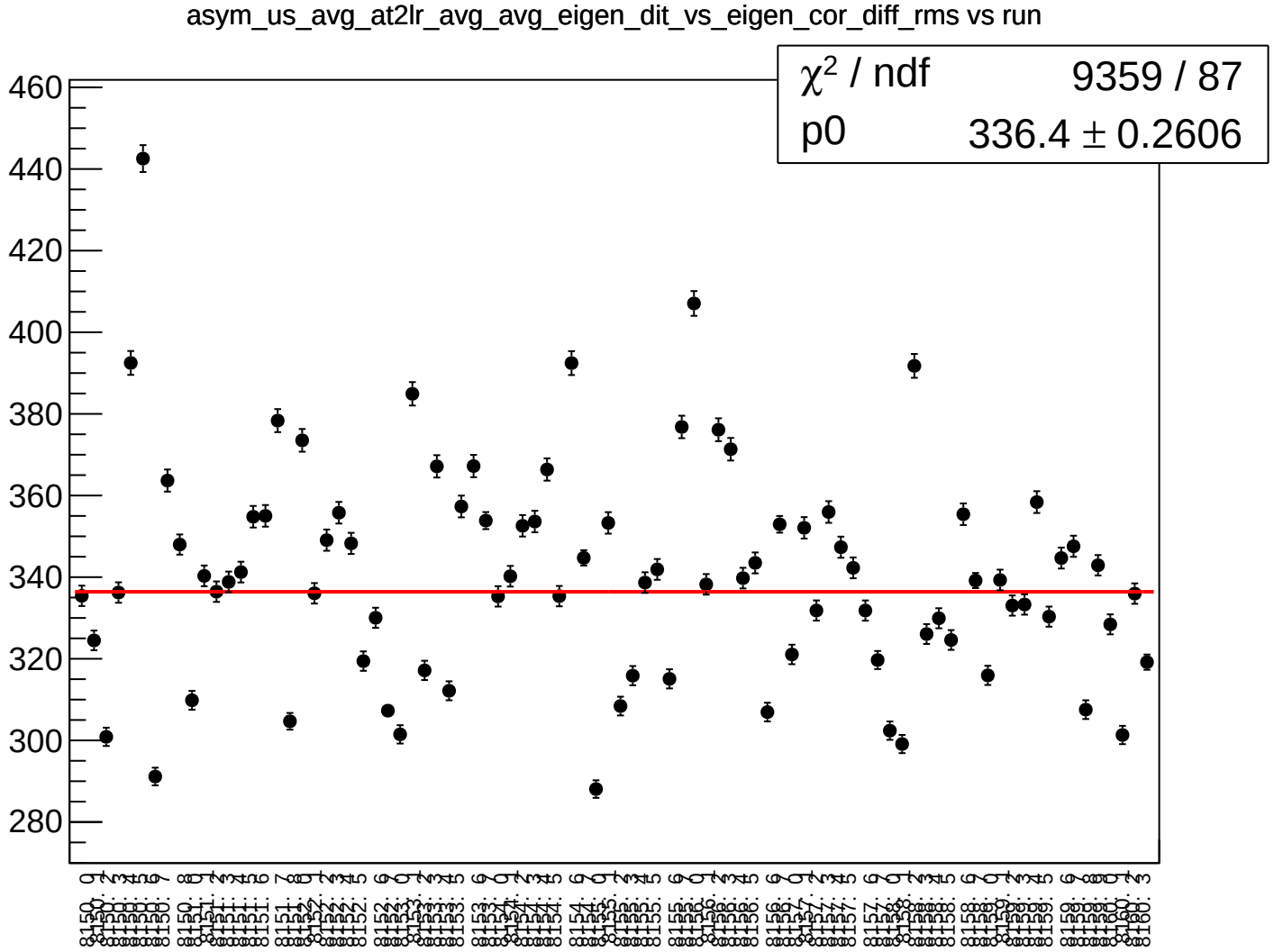

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.21 / 87
p0 −0.4082 ± 0.3685
pull
Entries 88
Mean 22.04
Std Dev 0

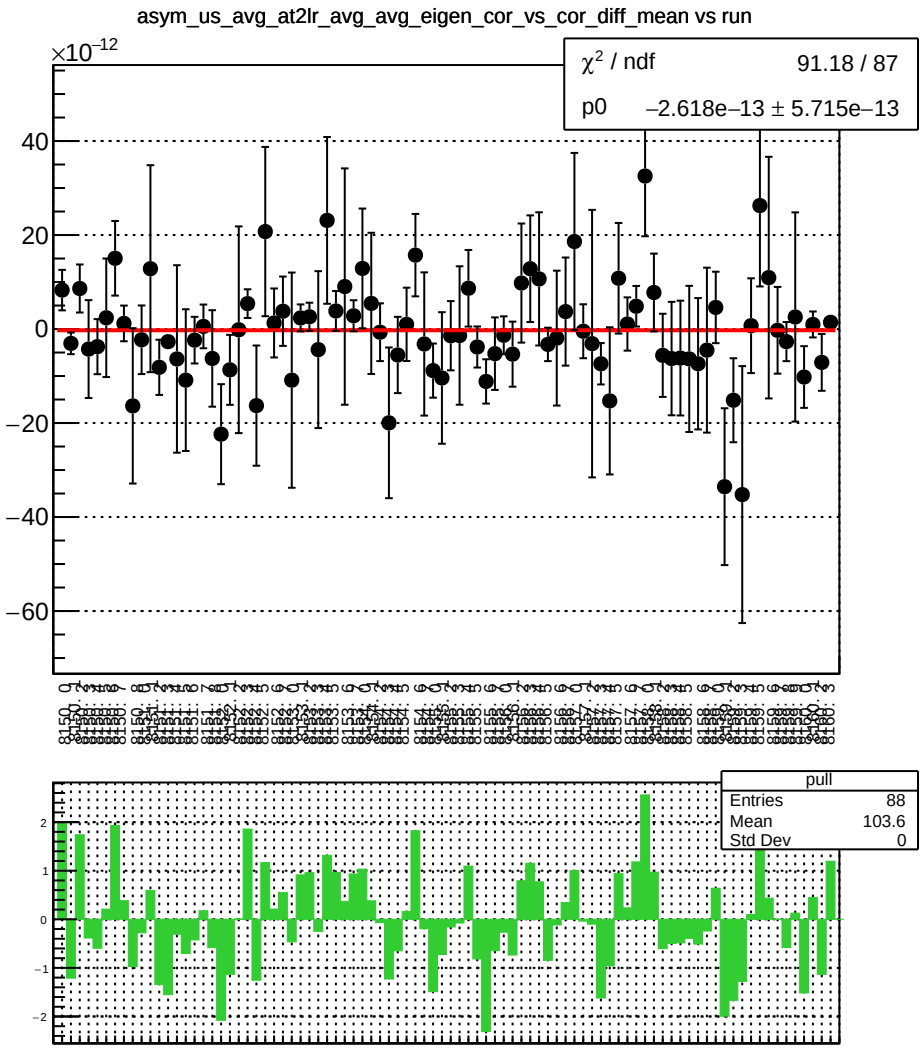

pull1D
Entries 88
Mean 0.005748
Std Dev 1.007

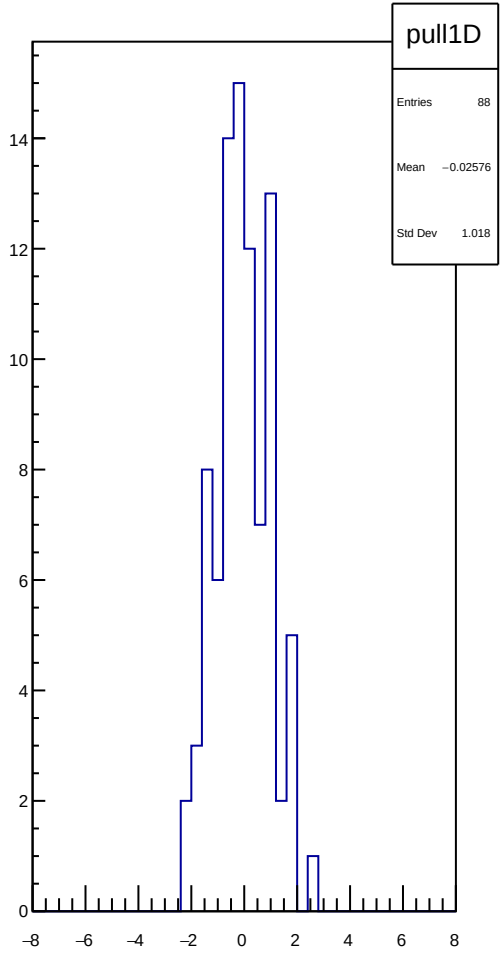

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9359 / 87
p0 336.4 ± 0.2606
460
440
420
400
380
360
340
320
300
280

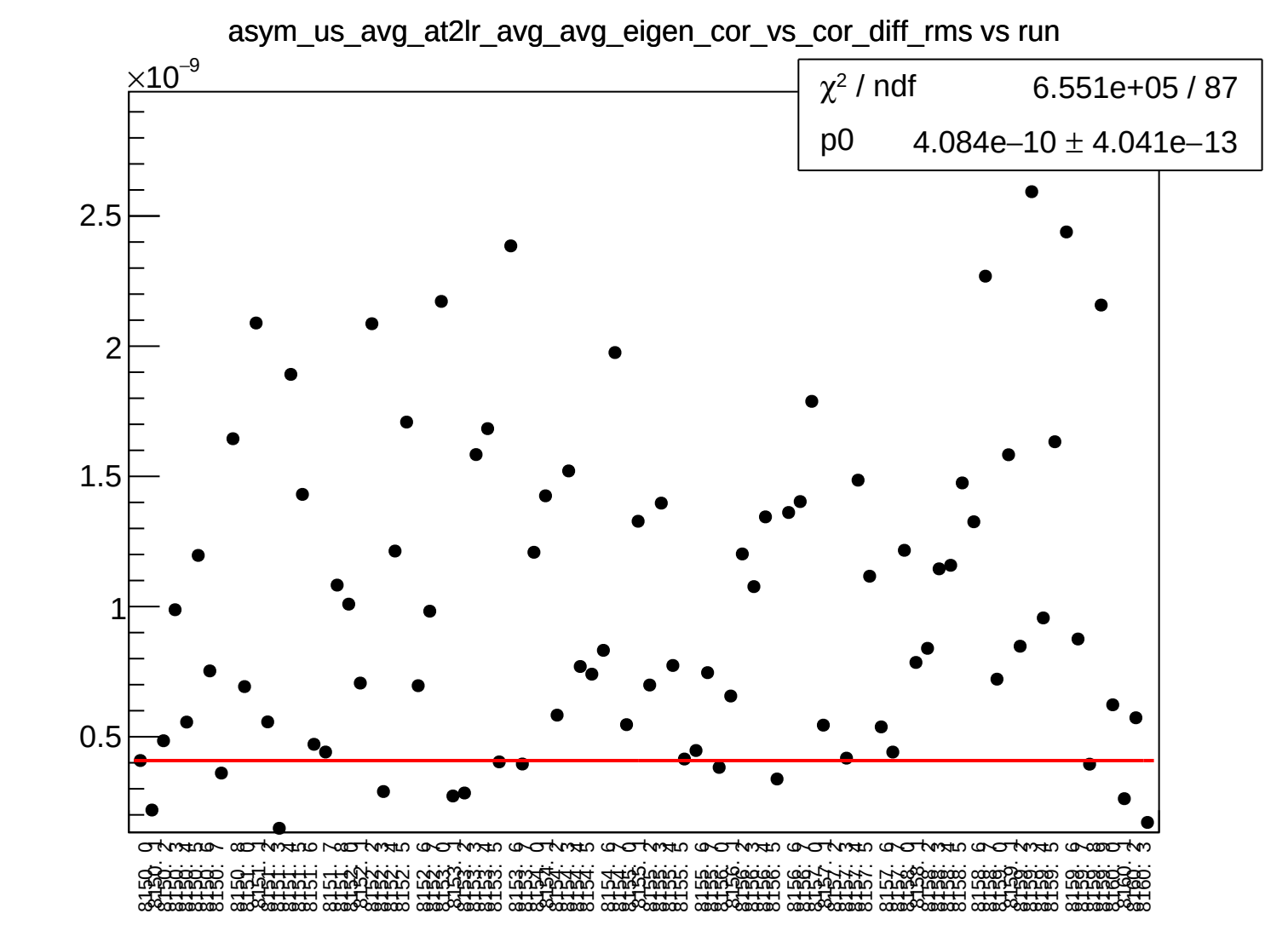

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.21 / 87
p0 −0.4082 ± 0.3685
pull
Entries 88
Mean 22.04
Std Dev 0

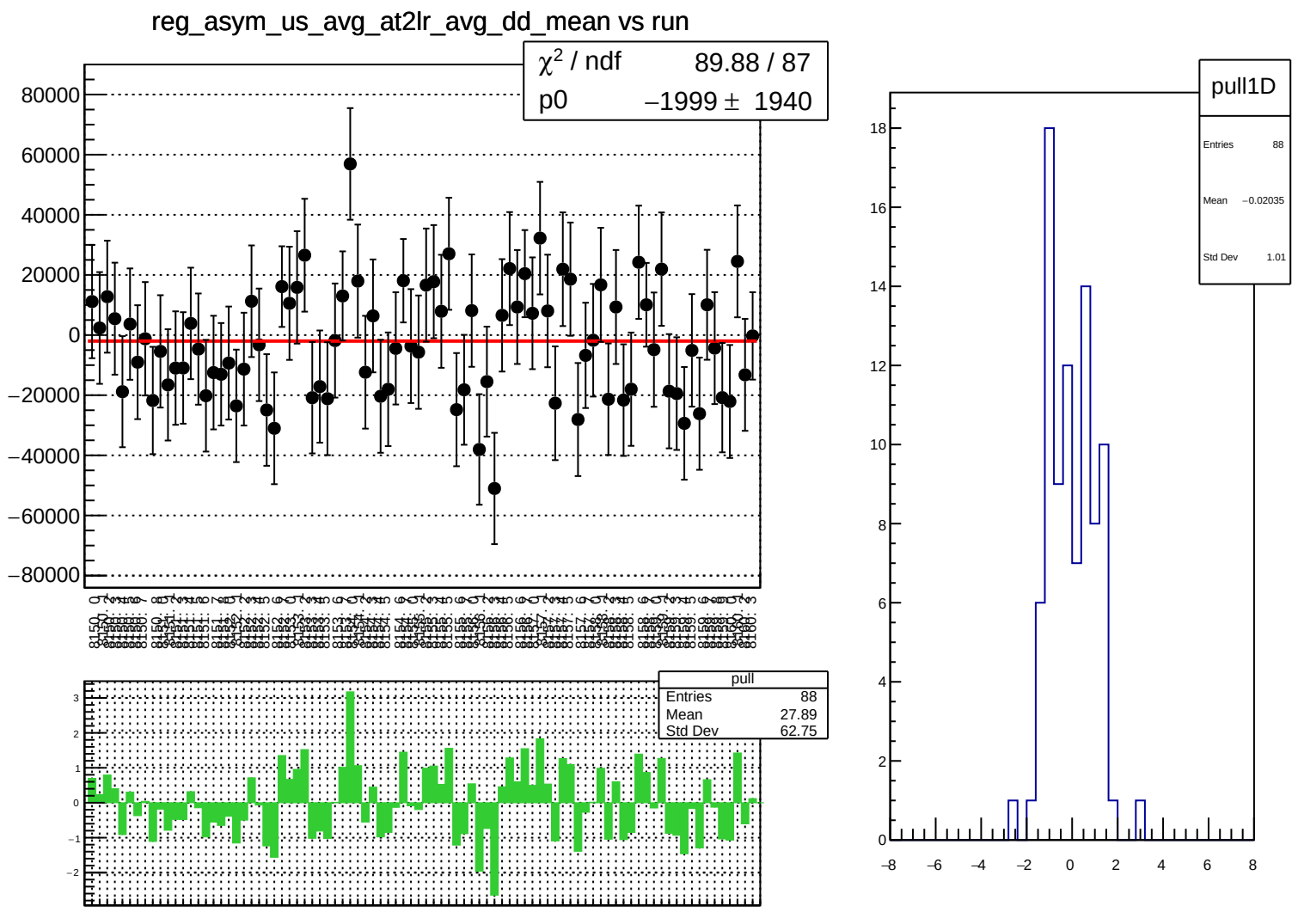

pull1D
Entries 88
Mean 0.005748
Std Dev 1.007

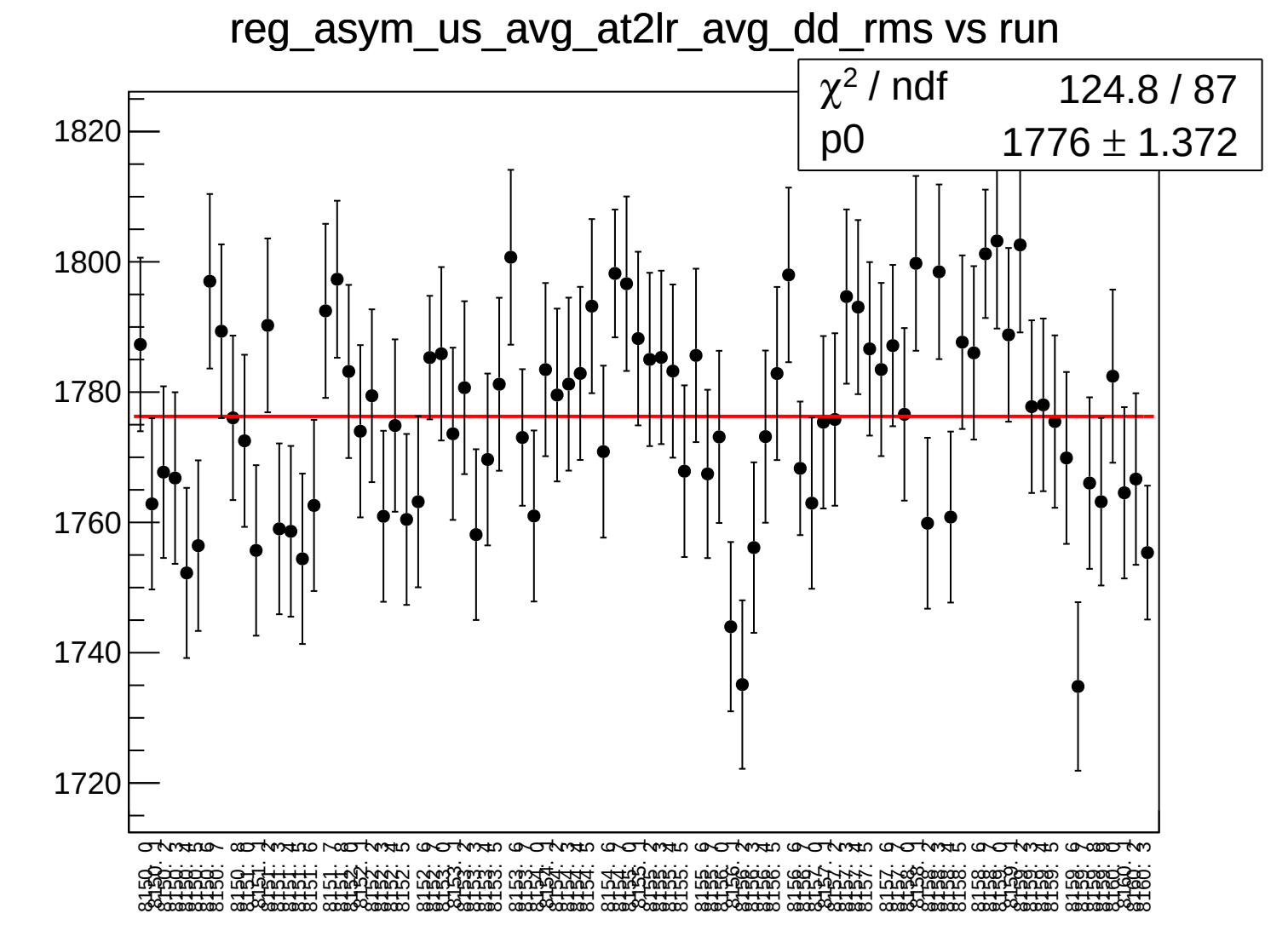

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9359 / 87
p0 336.4 ± 0.2606
460
440
420
400
380
360
340
320
300
280

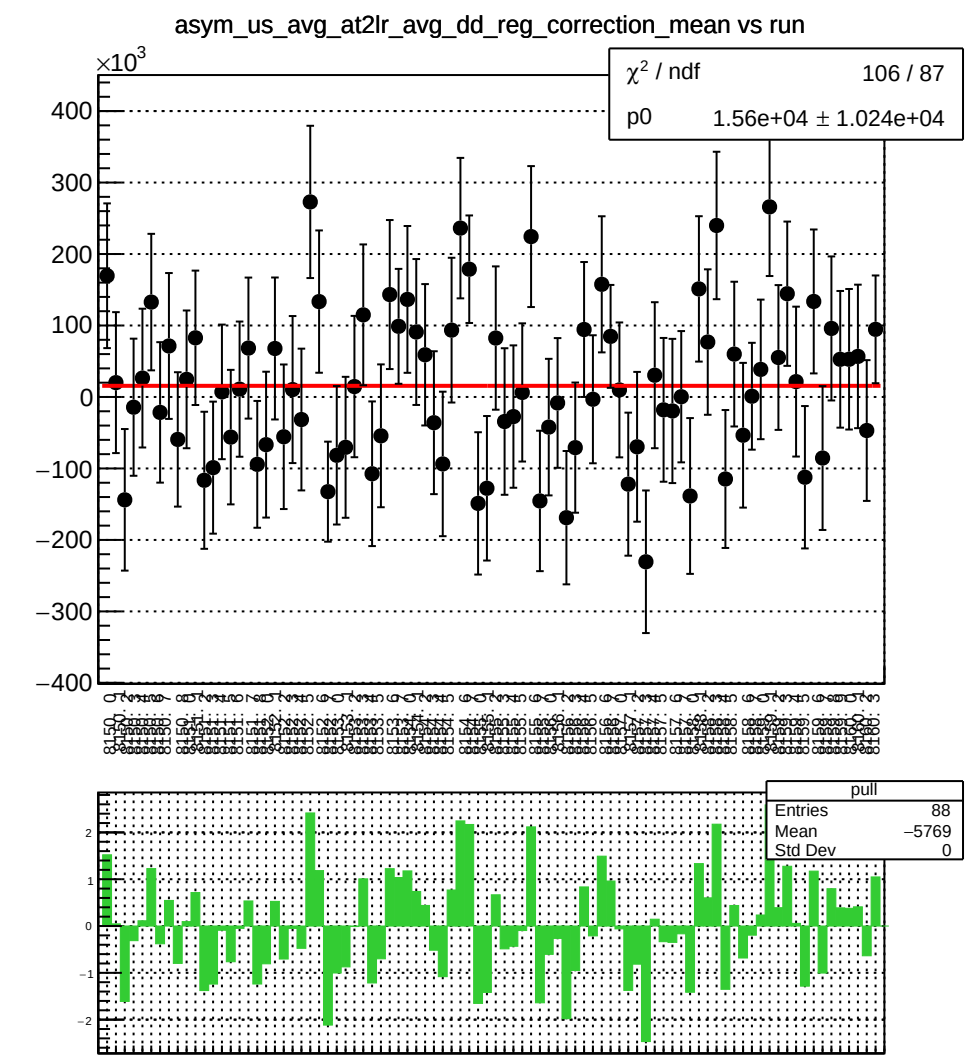

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.18 / 87
p0 −2.618e−13 ± 5.715e−13
40
20
0
−20
−40
−60
pull
Entries 88
Mean 103.6
Std Dev 0
2
1
0
−1
−2

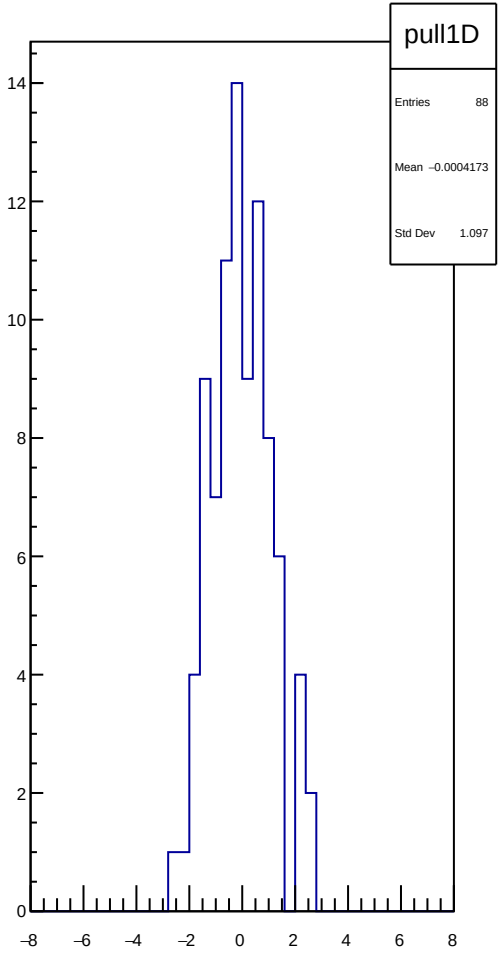

pull1D
Entries 88
Mean −0.02576
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

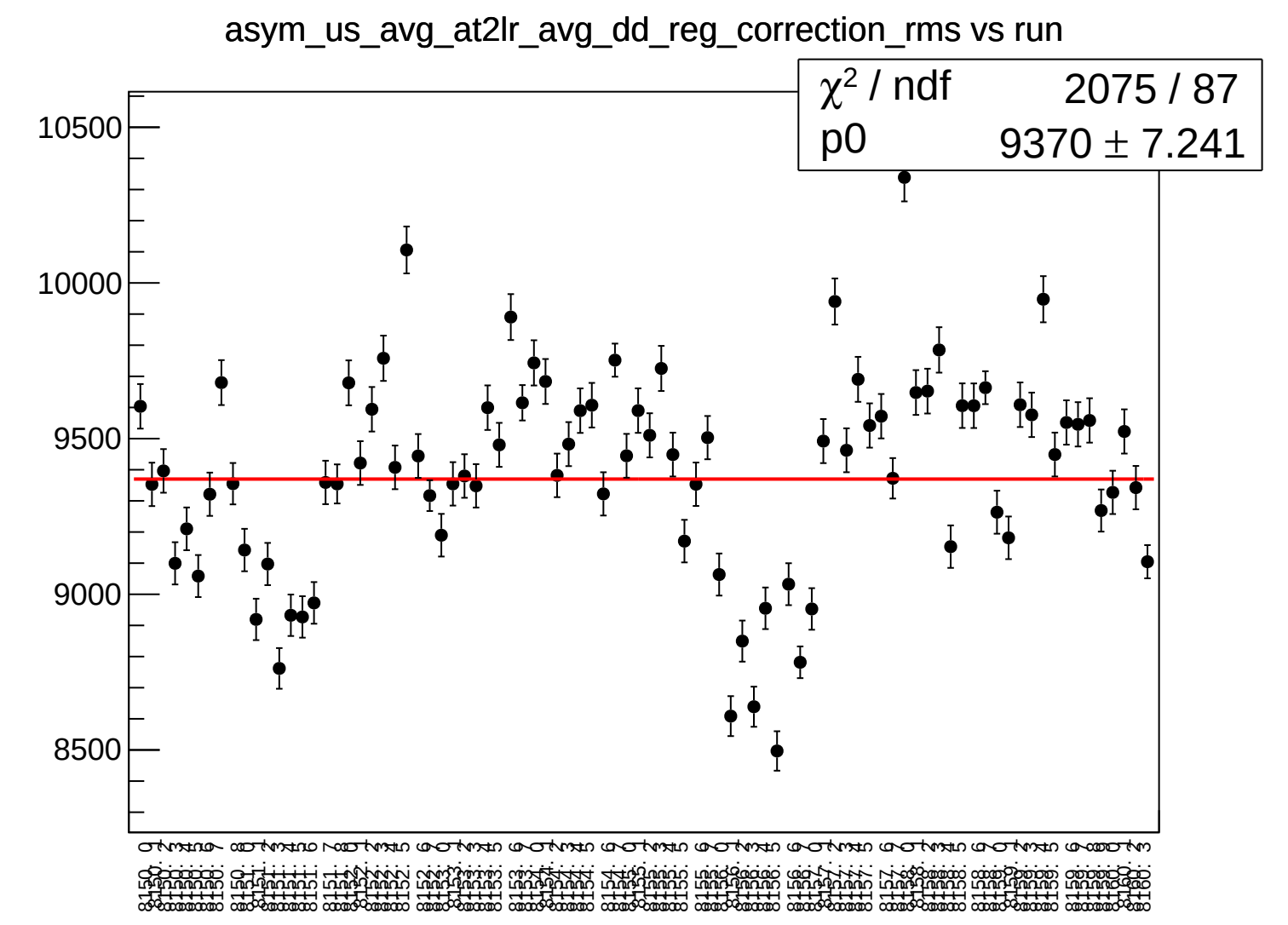

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.551e+05 / 87
p0 4.084e−10 ± 4.041e−13
2.5
2
1.5
1
0.5

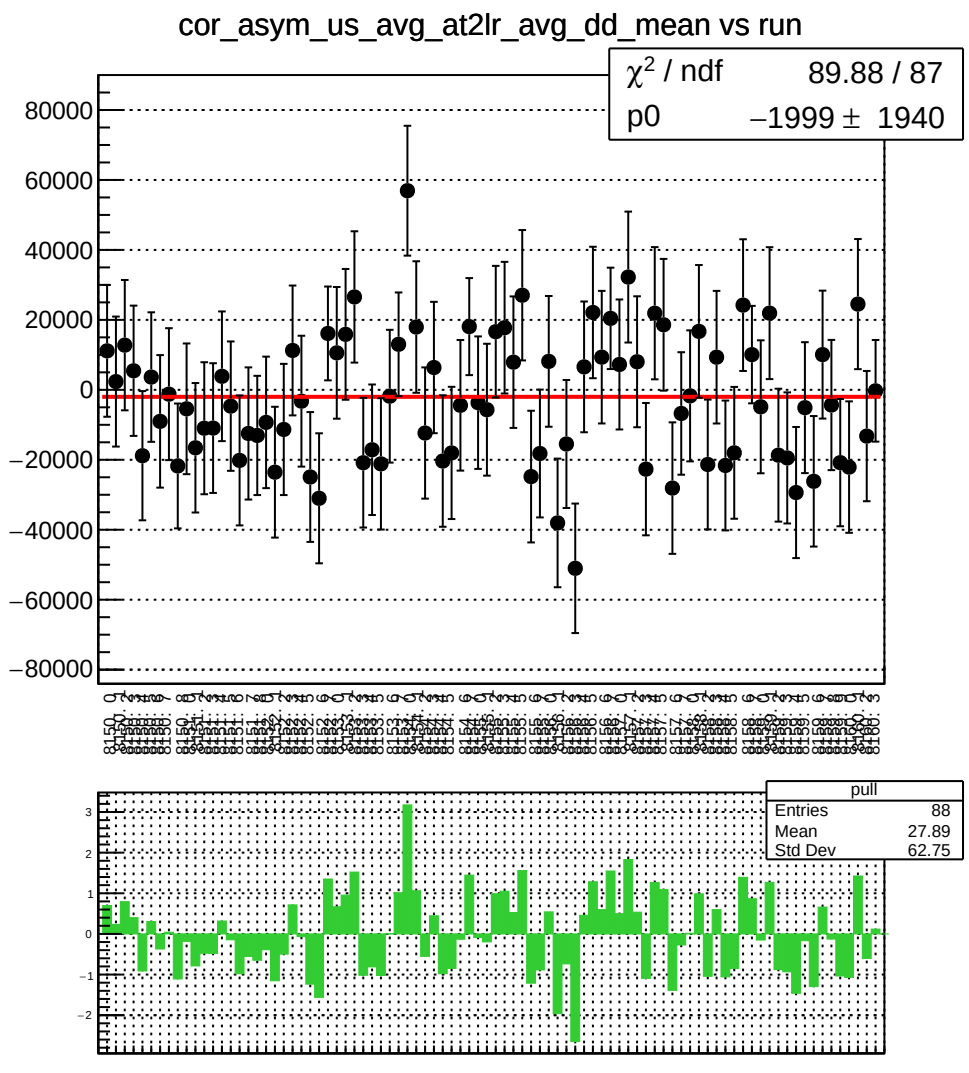

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 89.88 / 87
p0 −1999 ± 1940
pull
Entries 88
Mean 27.89
Std Dev 62.75
pull1D
Entries 88
Mean −0.02035
Std Dev 1.01

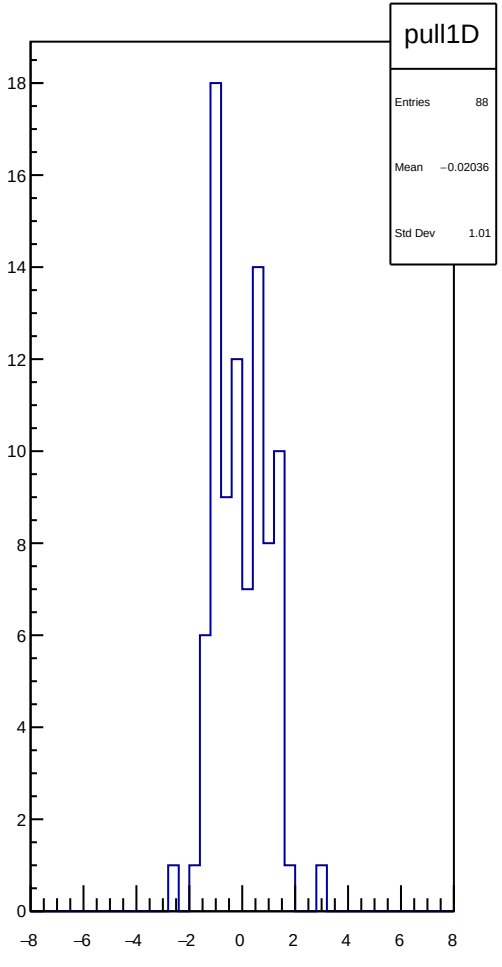

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 124.8 / 87
p0 1776 ± 1.372
1820
1800
1780
1760
1740
1720

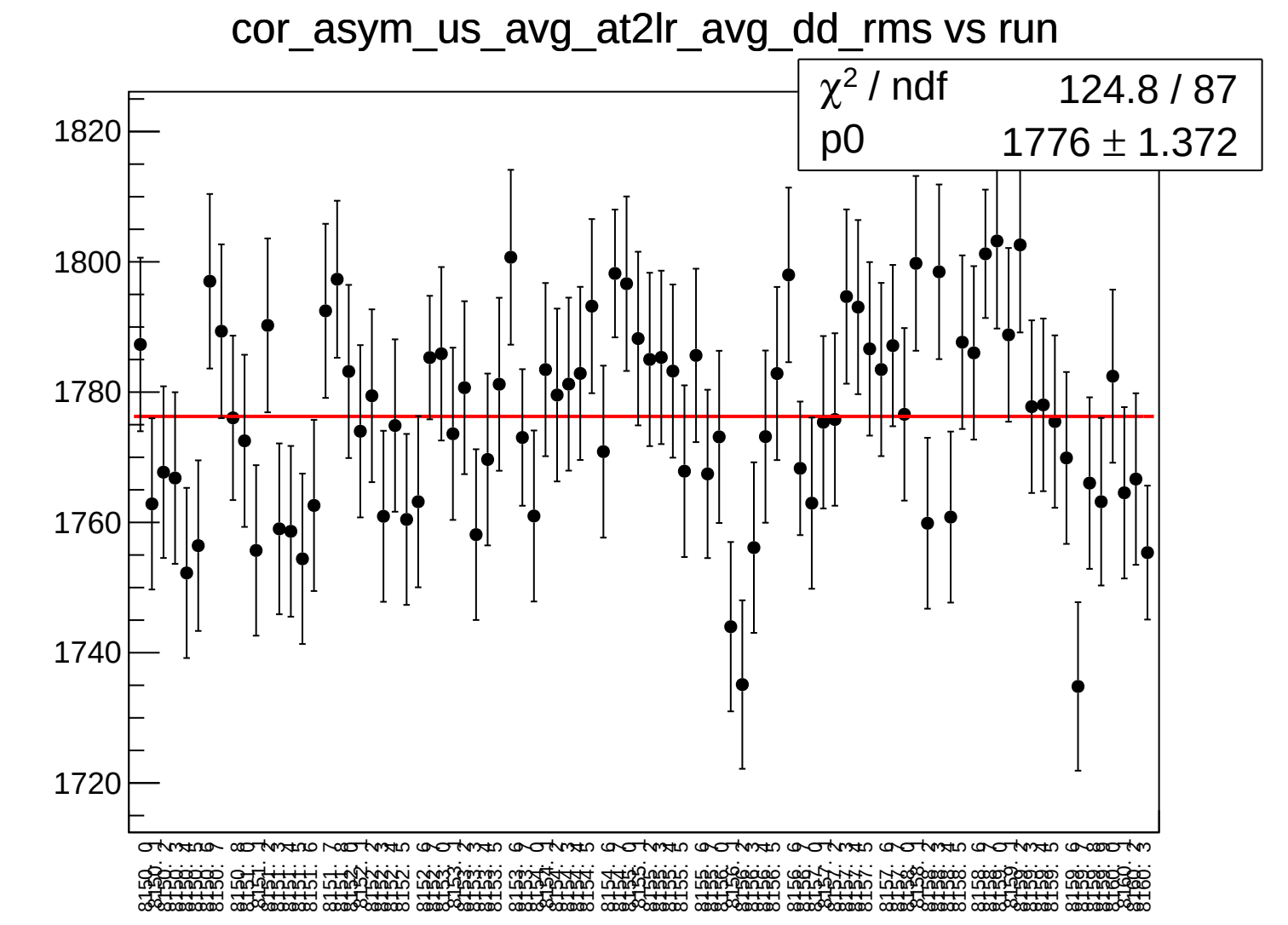

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 106 / 87
p0 1.56e+04 ± 1.024e+04
pull
Entries 88
Mean −5769
Std Dev 0

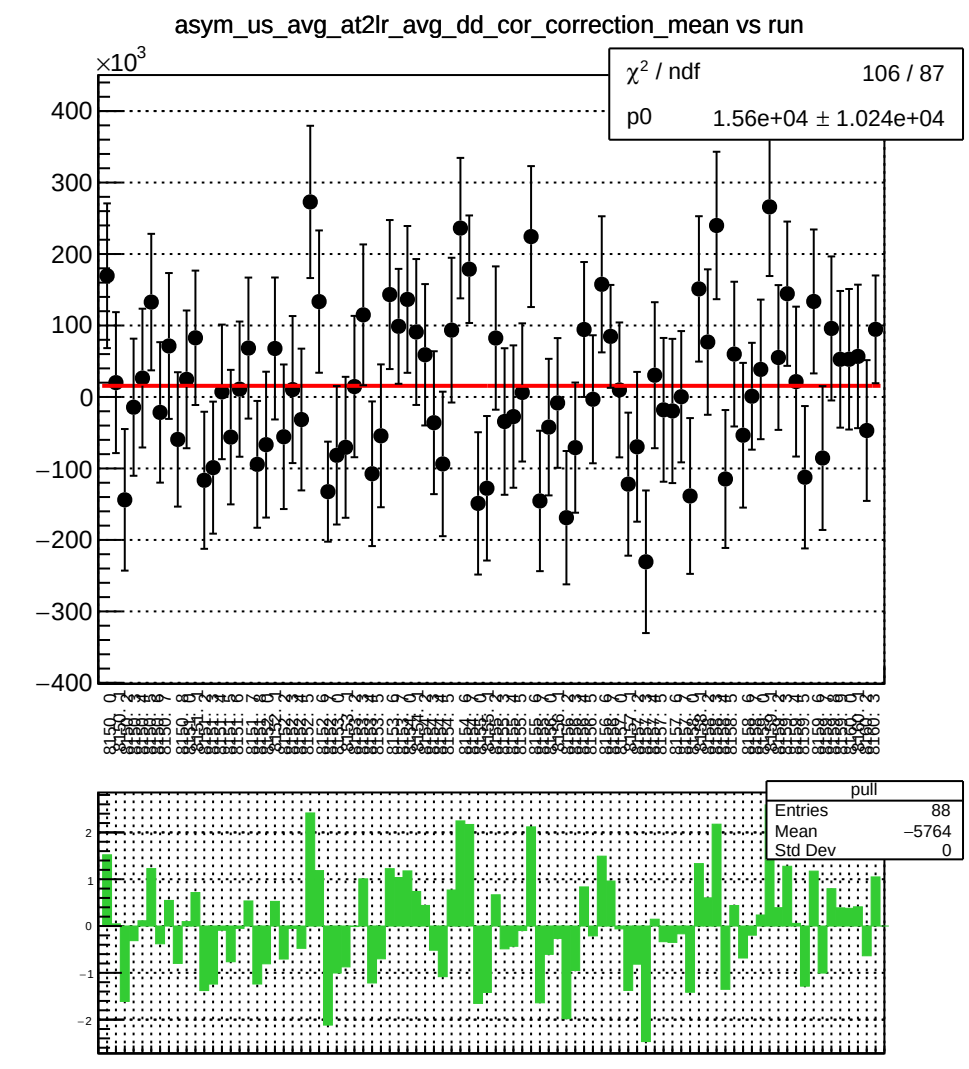

pull1D
Entries 88
Mean −0.0004173
Std Dev 1.097

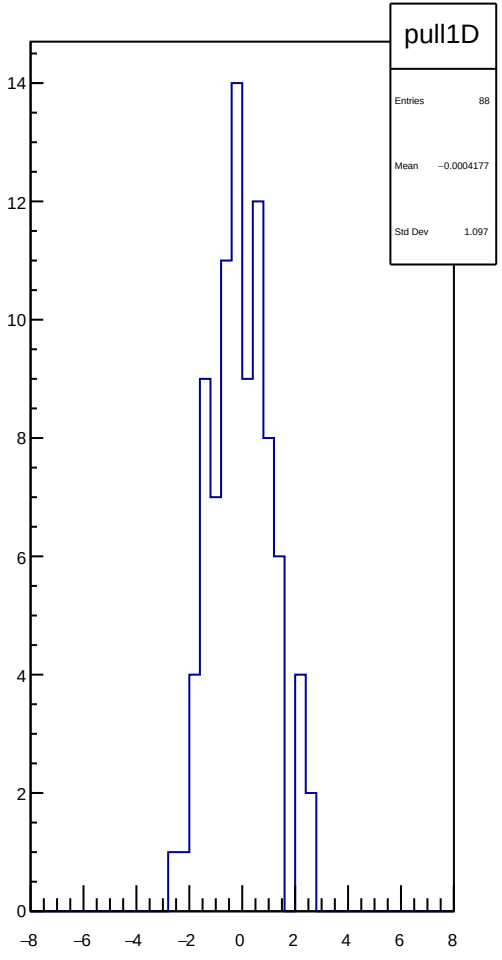

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 2075 / 87
p0 9370 ± 7.241
10500
10000
9500
9000
8500

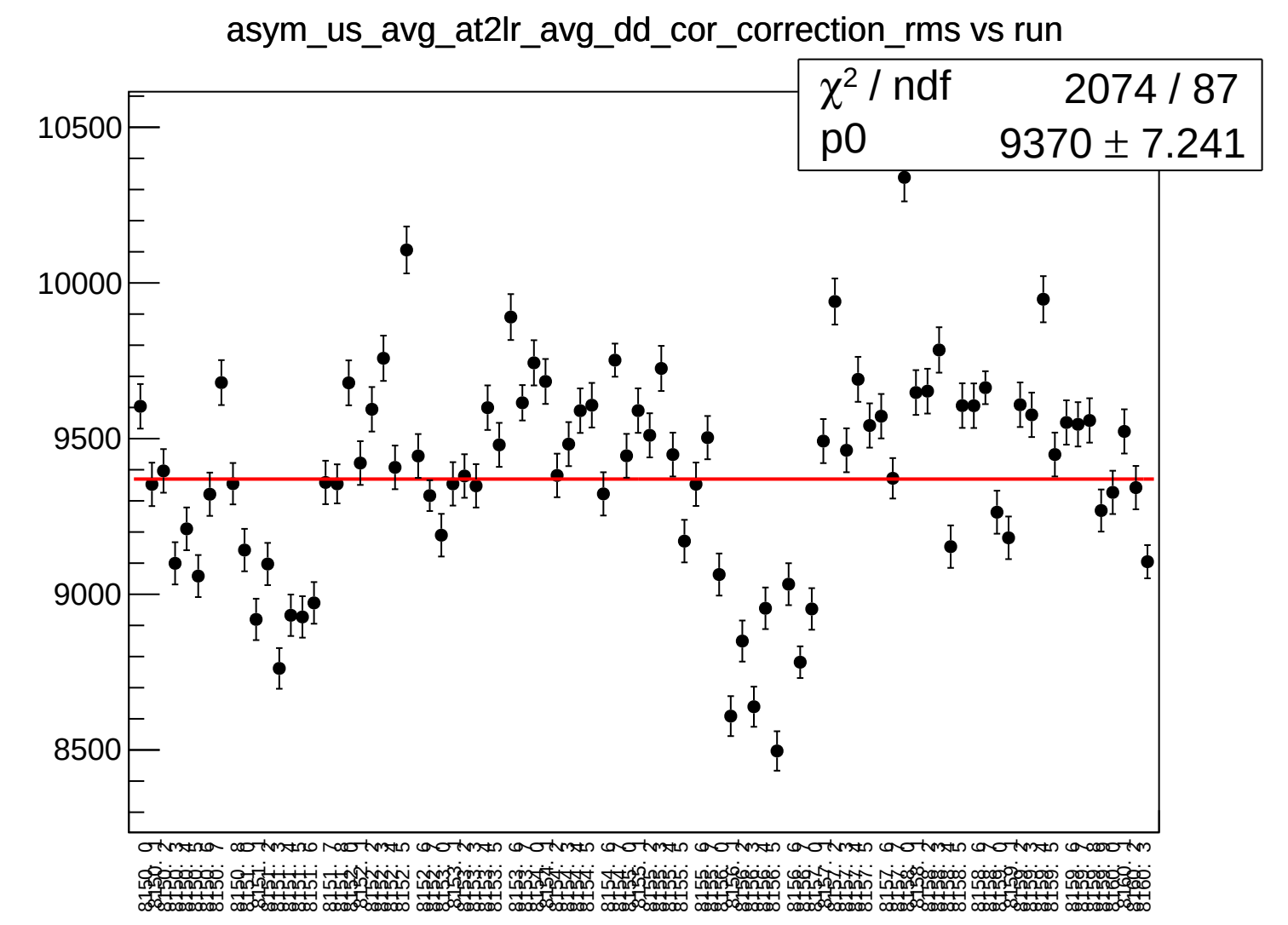

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 89.88 / 87
p0 −1999 ± 1940
pull
Entries 88
Mean 27.89
Std Dev 62.75

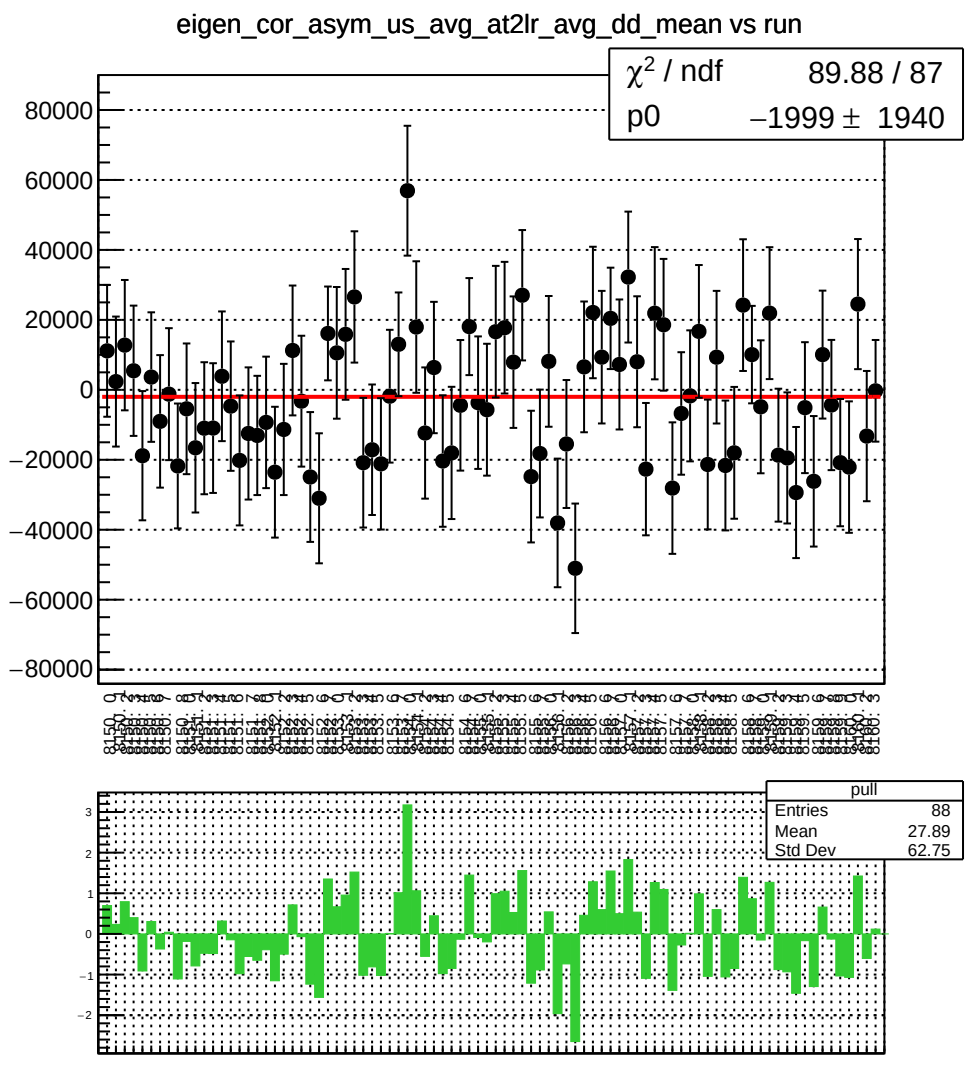

pull1D
Entries 88
Mean −0.02036
Std Dev 1.01

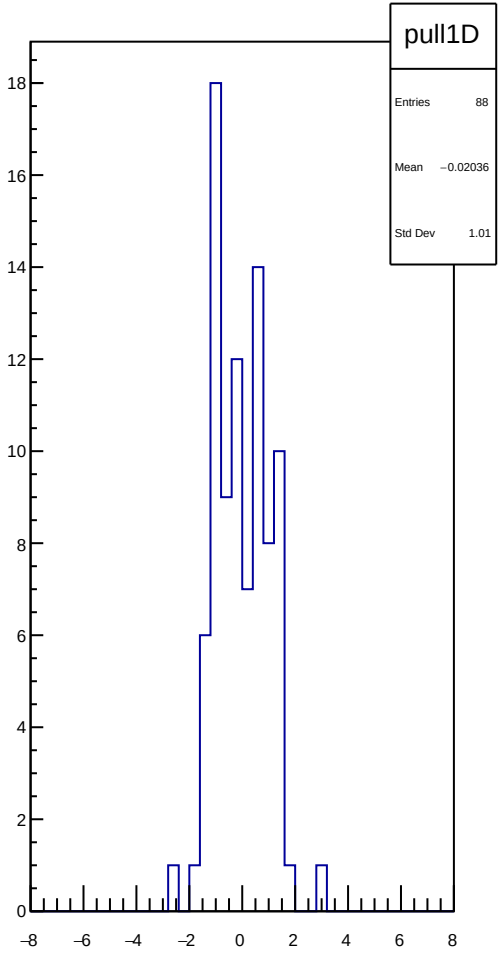

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 124.8 / 87
p0 1776 ± 1.372
1820
1800
1780
1760
1740
1720

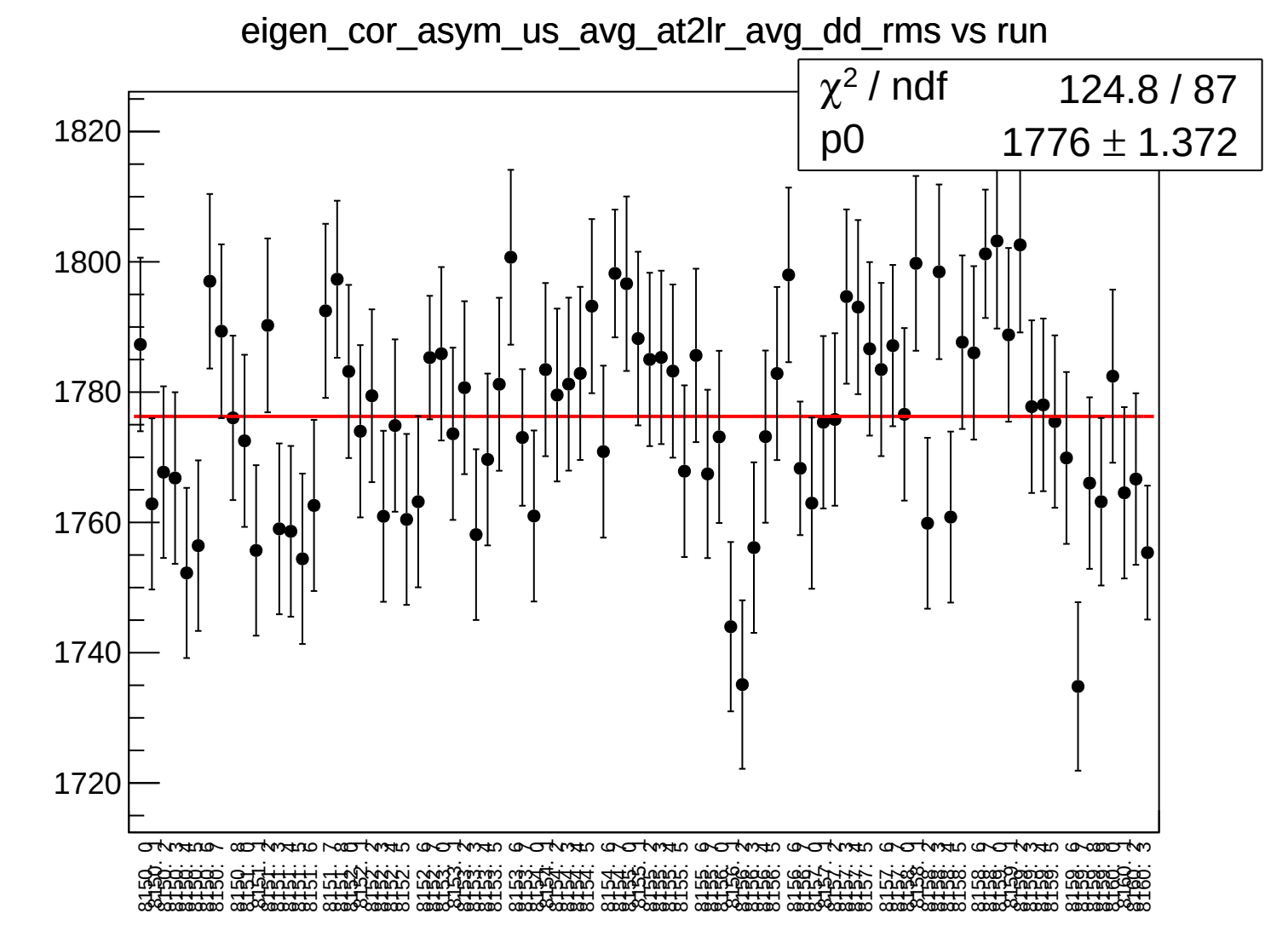

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 106 / 87
p0 1.56e+04 ± 1.024e+04
pull
Entries 88
Mean −5764
Std Dev 0

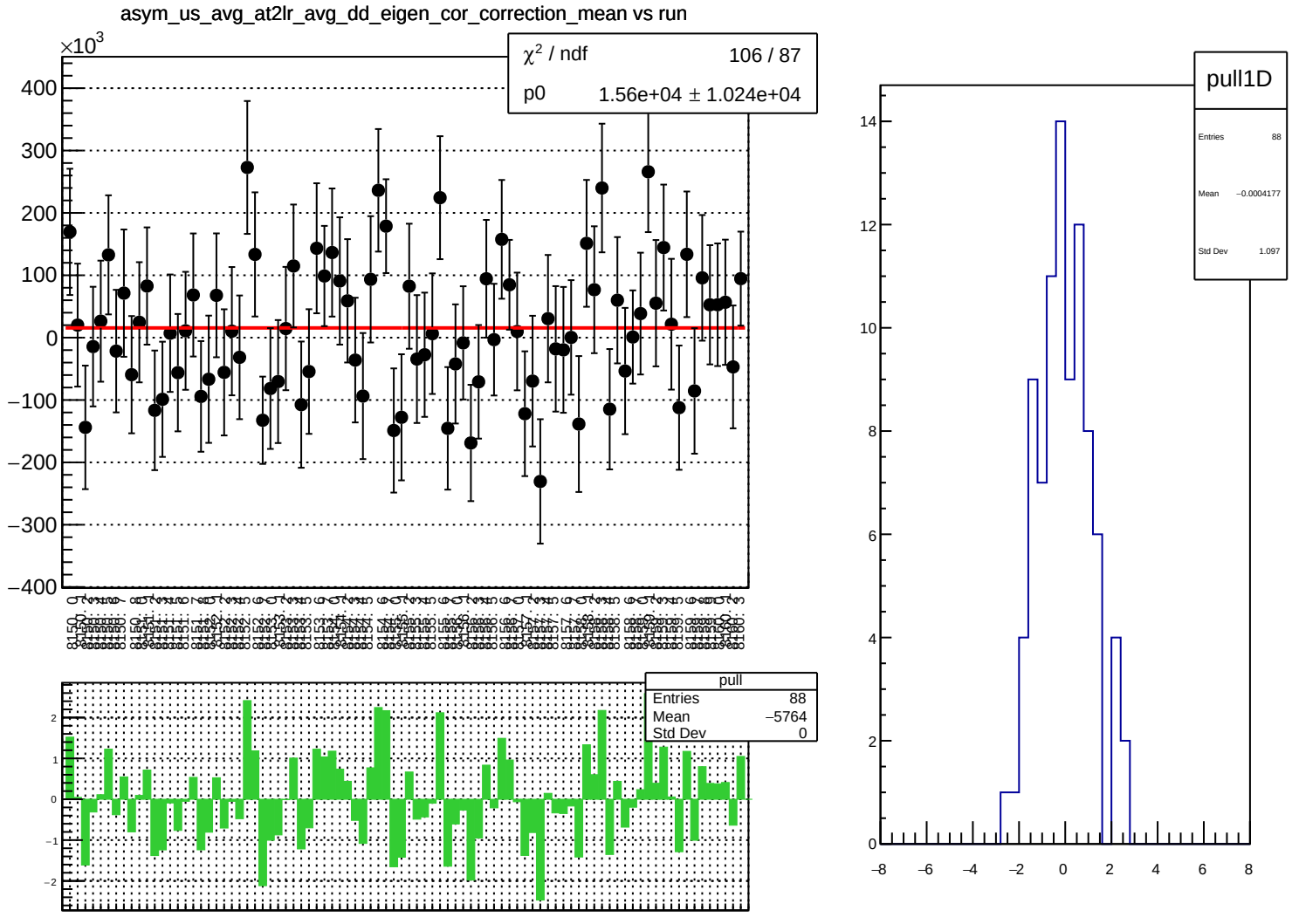

pull1D
Entries 88
Mean −0.0004177
Std Dev 1.097

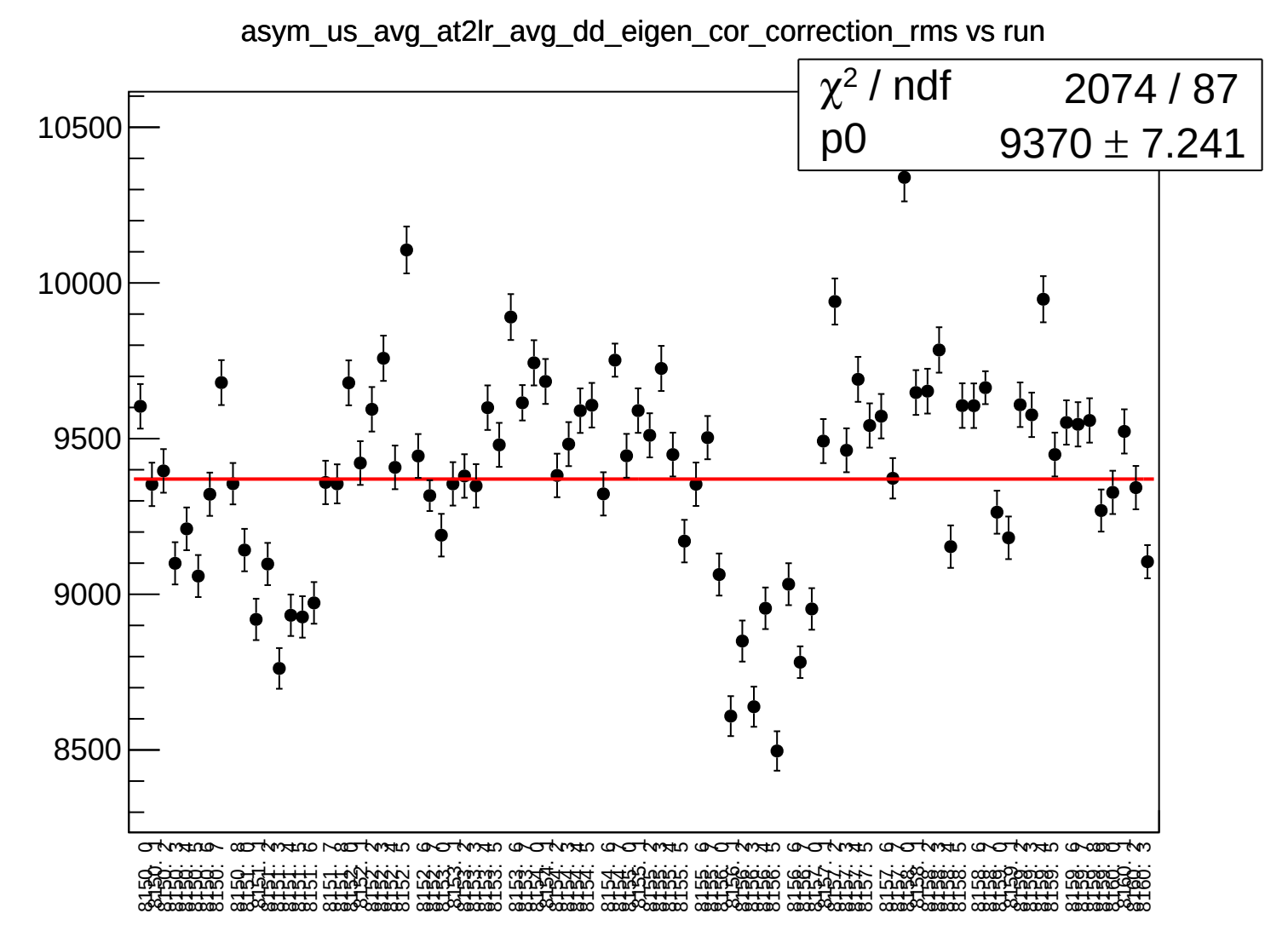

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 2074 / 87
p0 9370 ± 7.241
10500
10000
9500
9000
8500

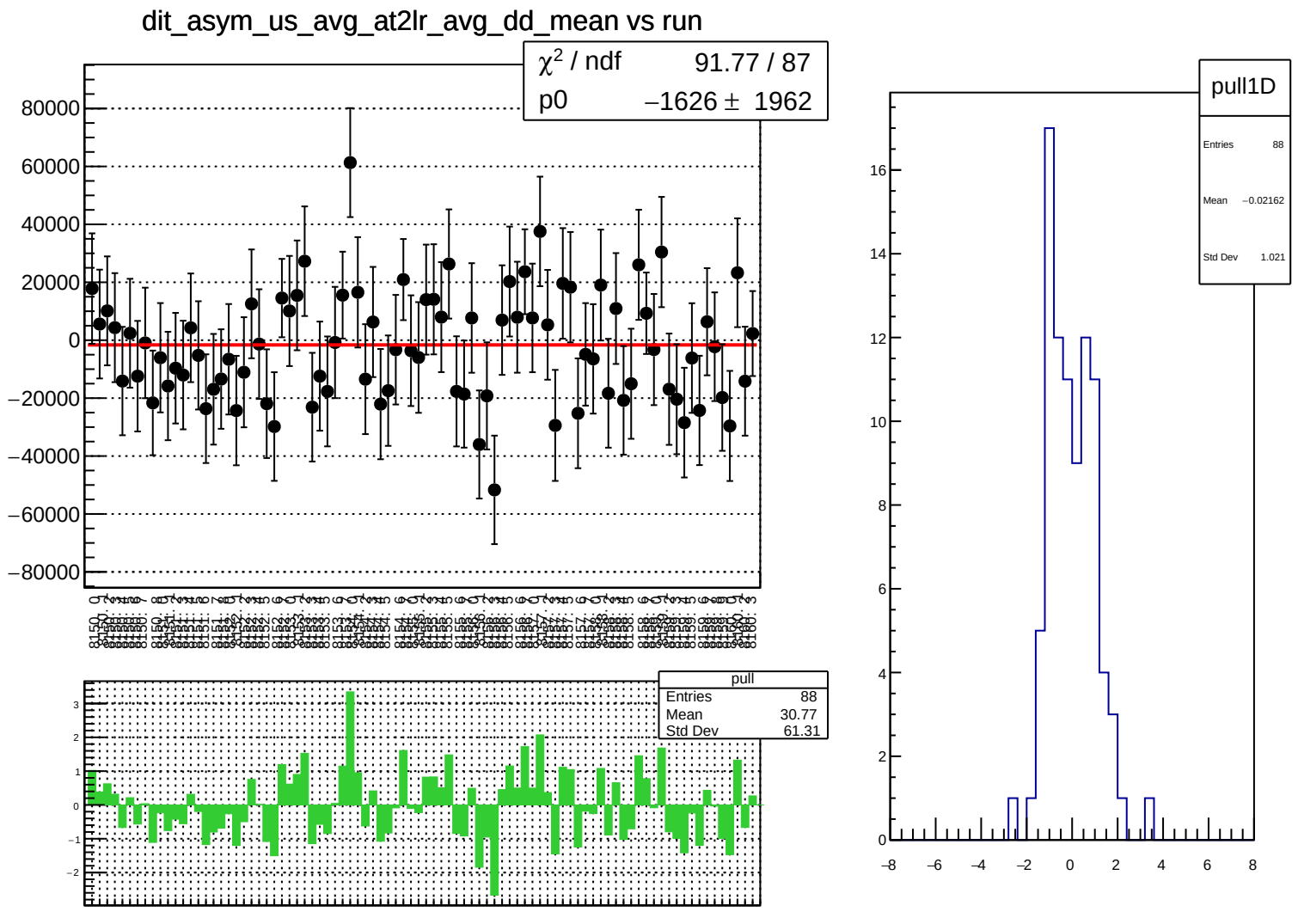

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 89.88 / 87
p0 −1999 ± 1940
pull
Entries 88
Mean 27.89
Std Dev 62.75

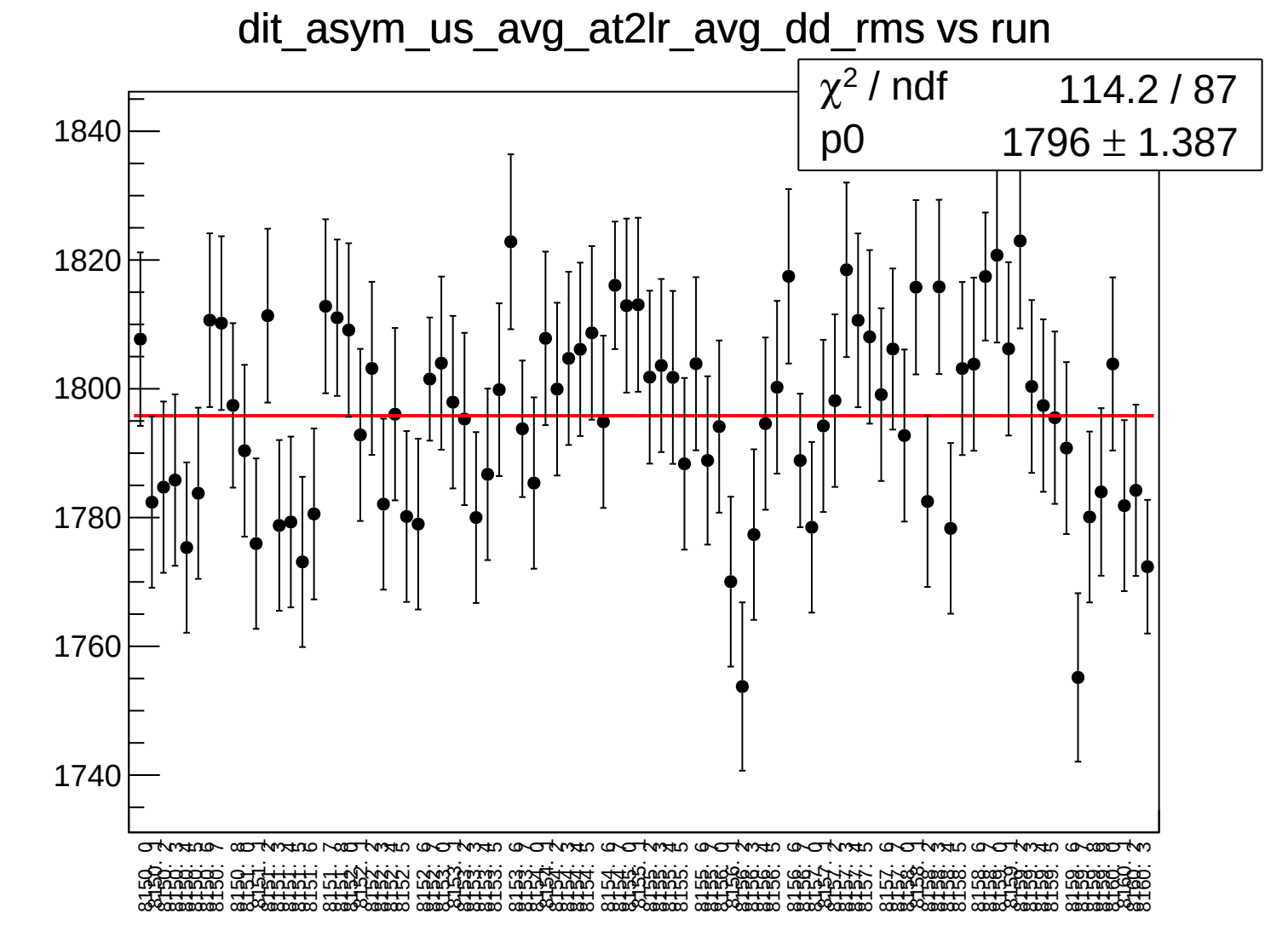

pull1D
Entries 88
Mean −0.02036
Std Dev 1.01

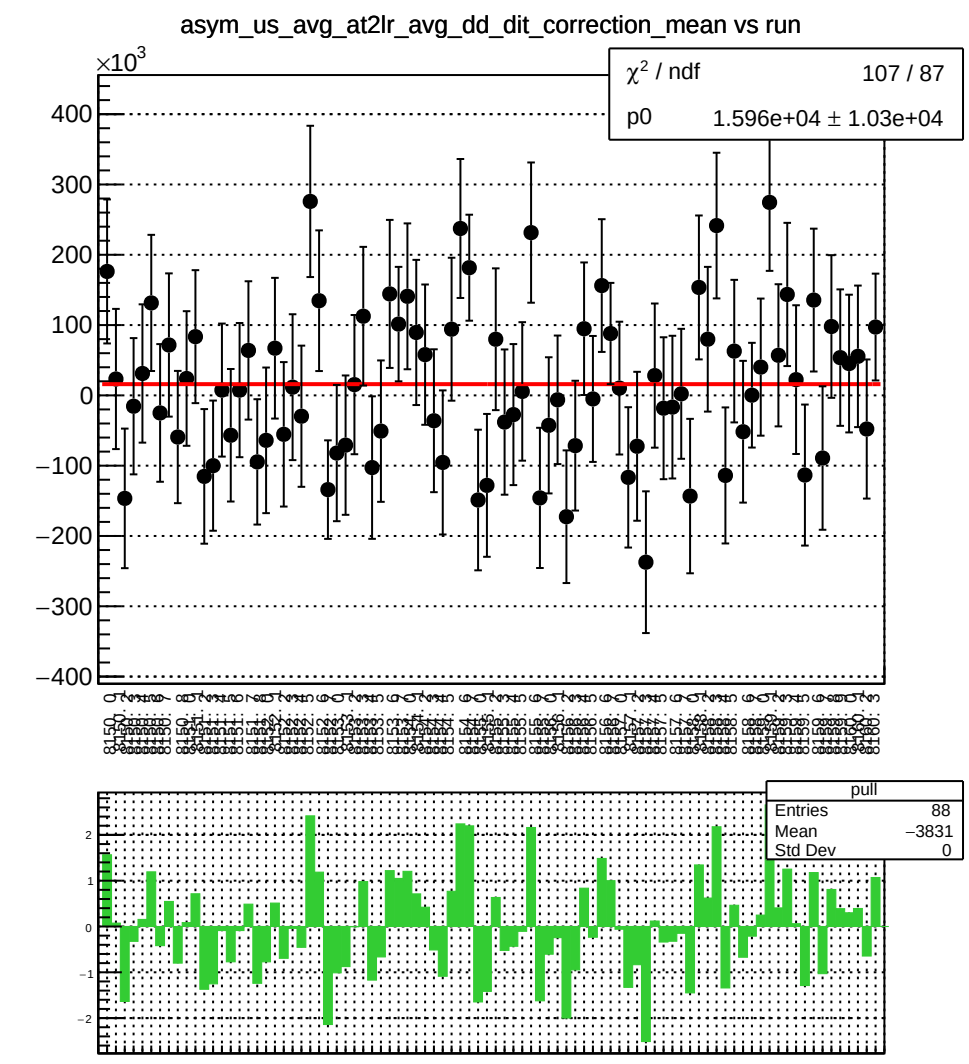

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 124.8 / 87
p0 1776 ± 1.372
1820
1800
1780
1760
1740
1720

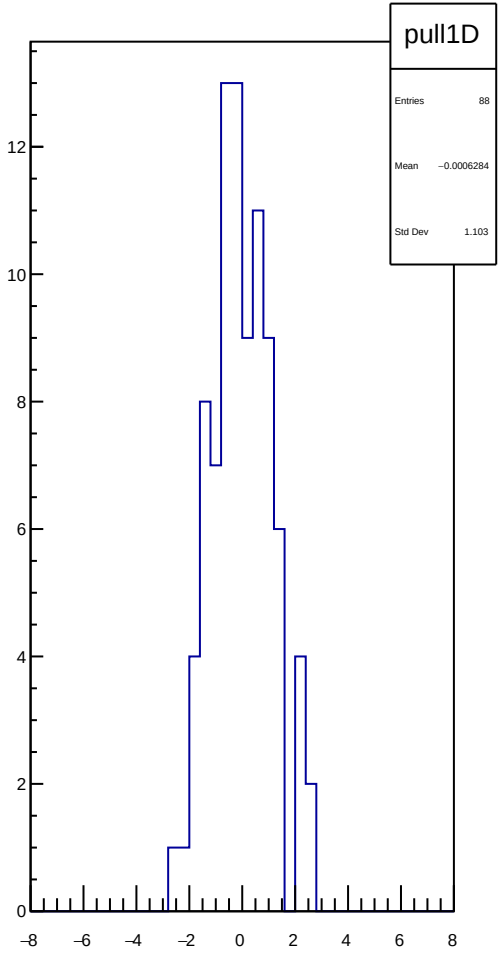

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106 / 87
p0 1.56e+04 ± 1.024e+04
pull
Entries 88
Mean −5764
Std Dev 0
pull1D
Entries 88
Mean −0.0004177
Std Dev 1.097

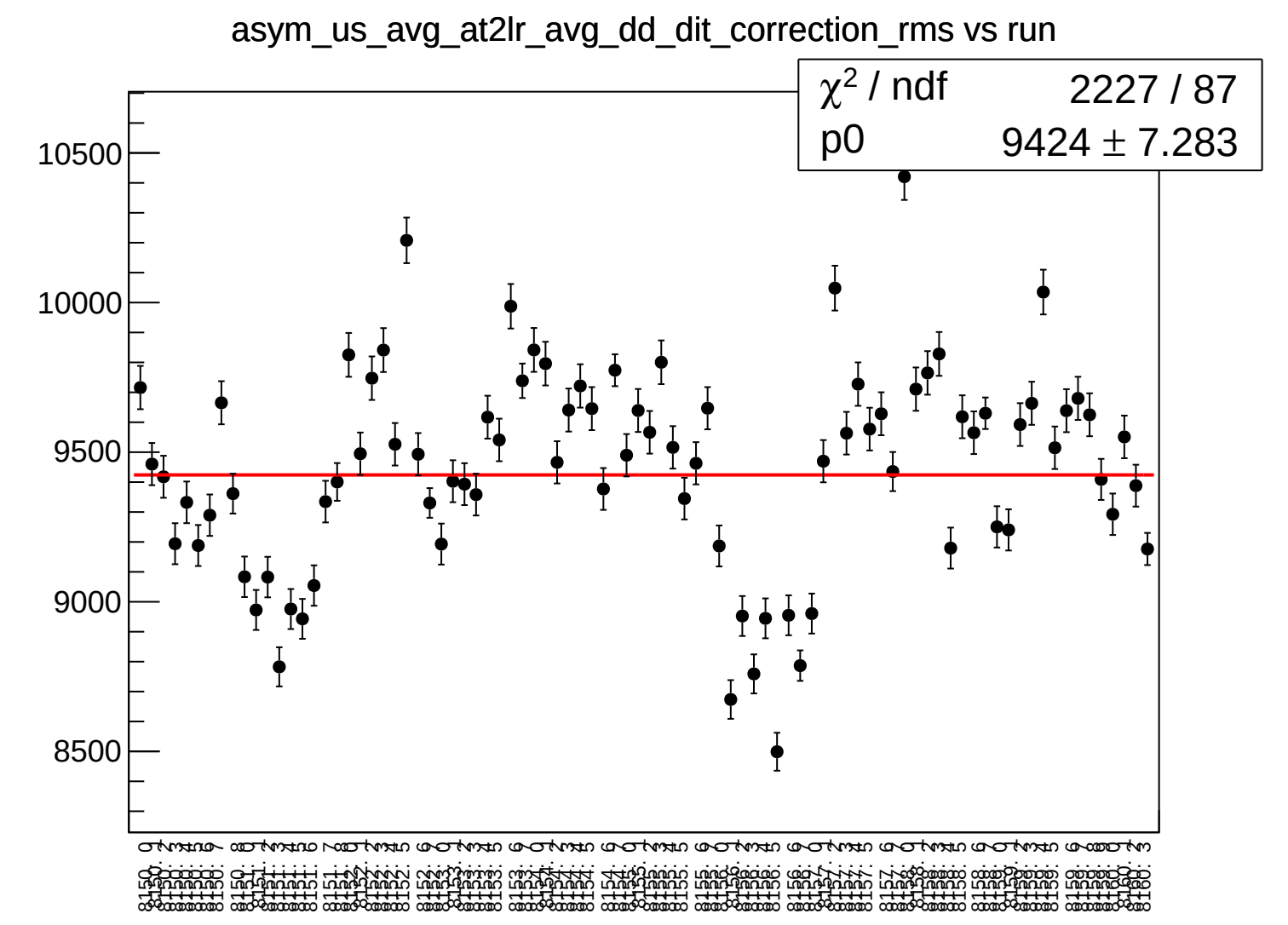

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2074 / 87
p0 9370 ± 7.241
10500
10000
9500
9000
8500

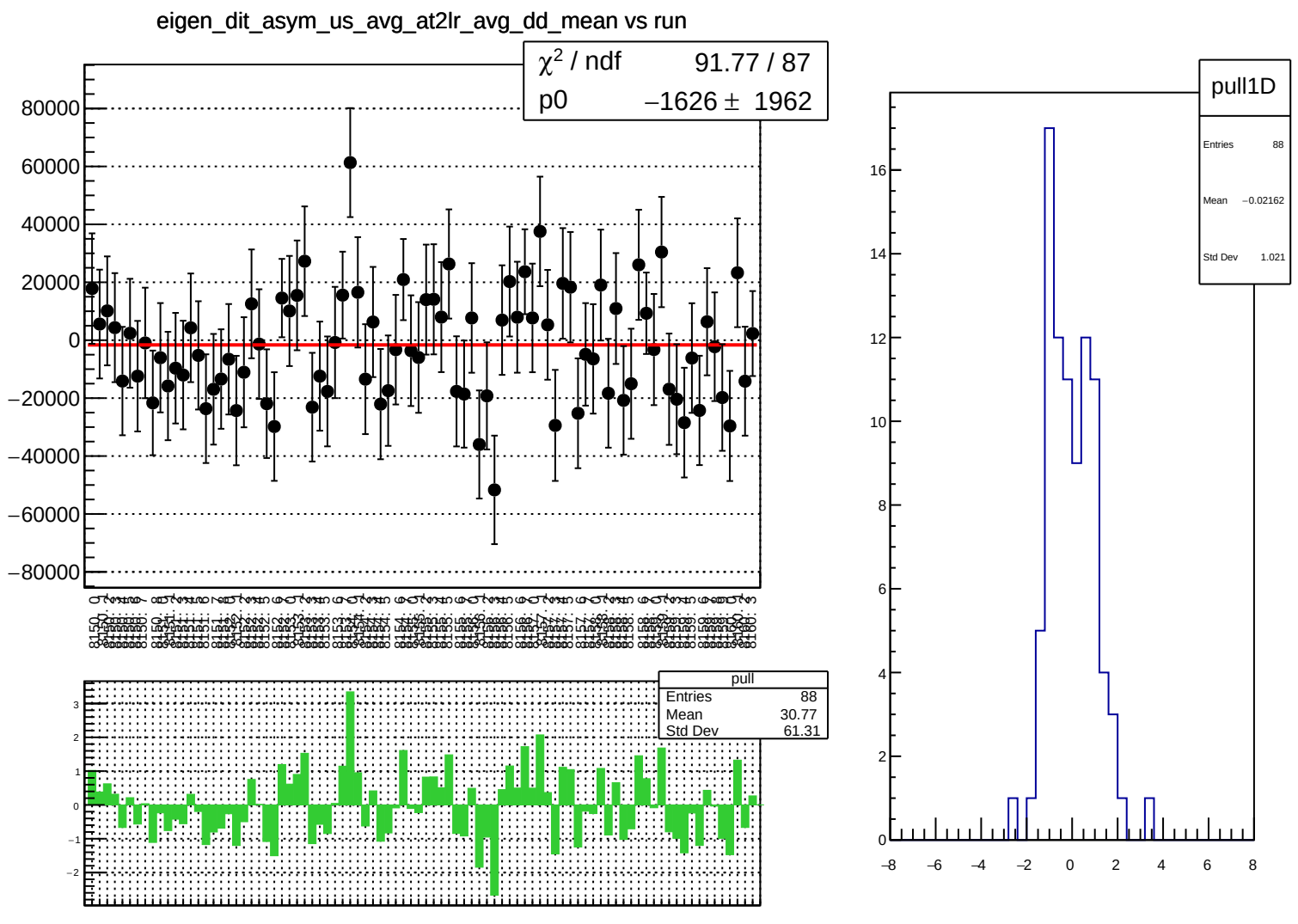

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 91.77 / 87
p0 −1626 ± 1962
pull
Entries 88
Mean 30.77
Std Dev 61.31
pull1D
Entries 88
Mean −0.02162
Std Dev 1.021

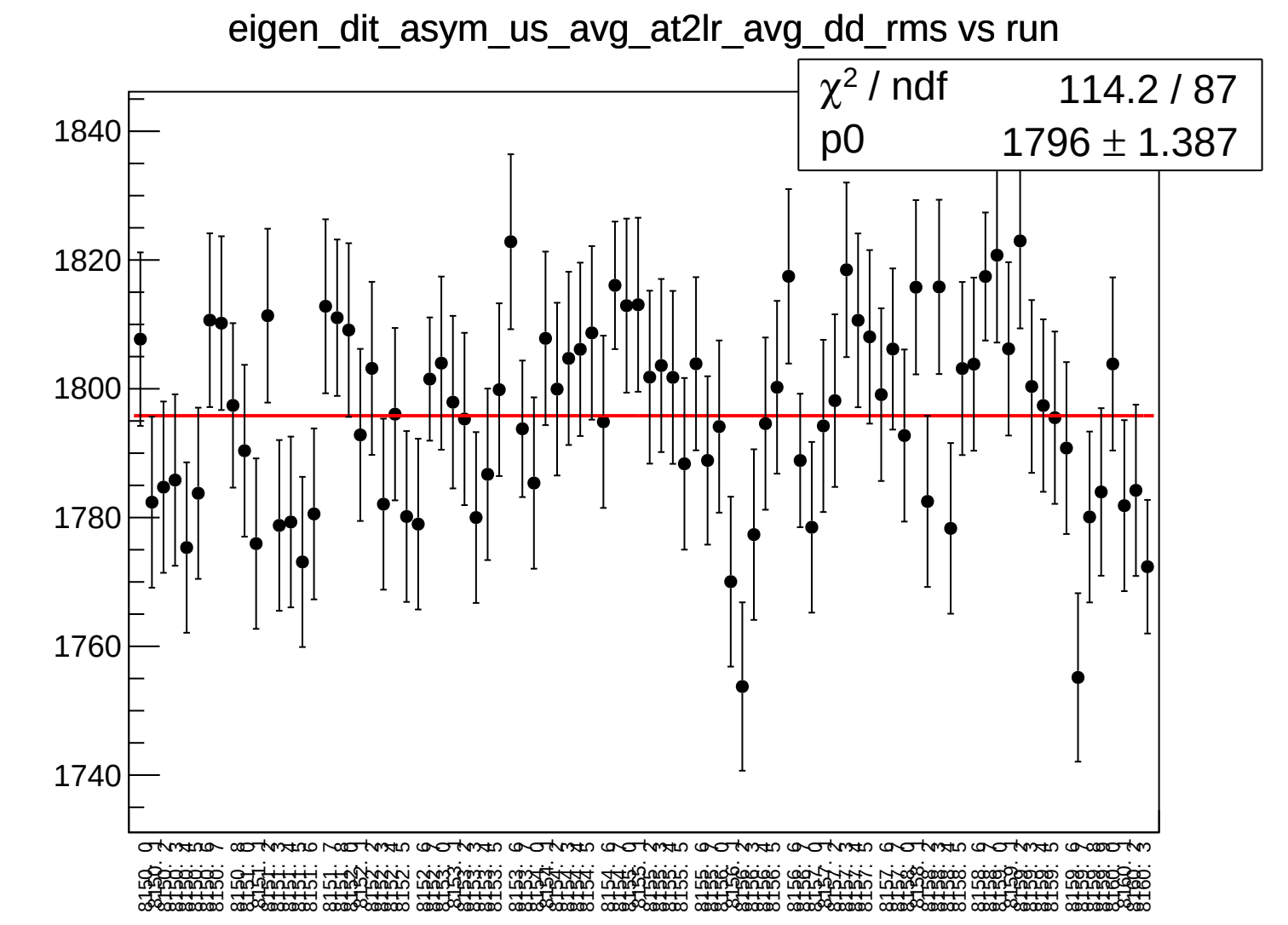

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 114.2 / 87
p0 1796 ± 1.387
1840
1820
1800
1780
1760
1740

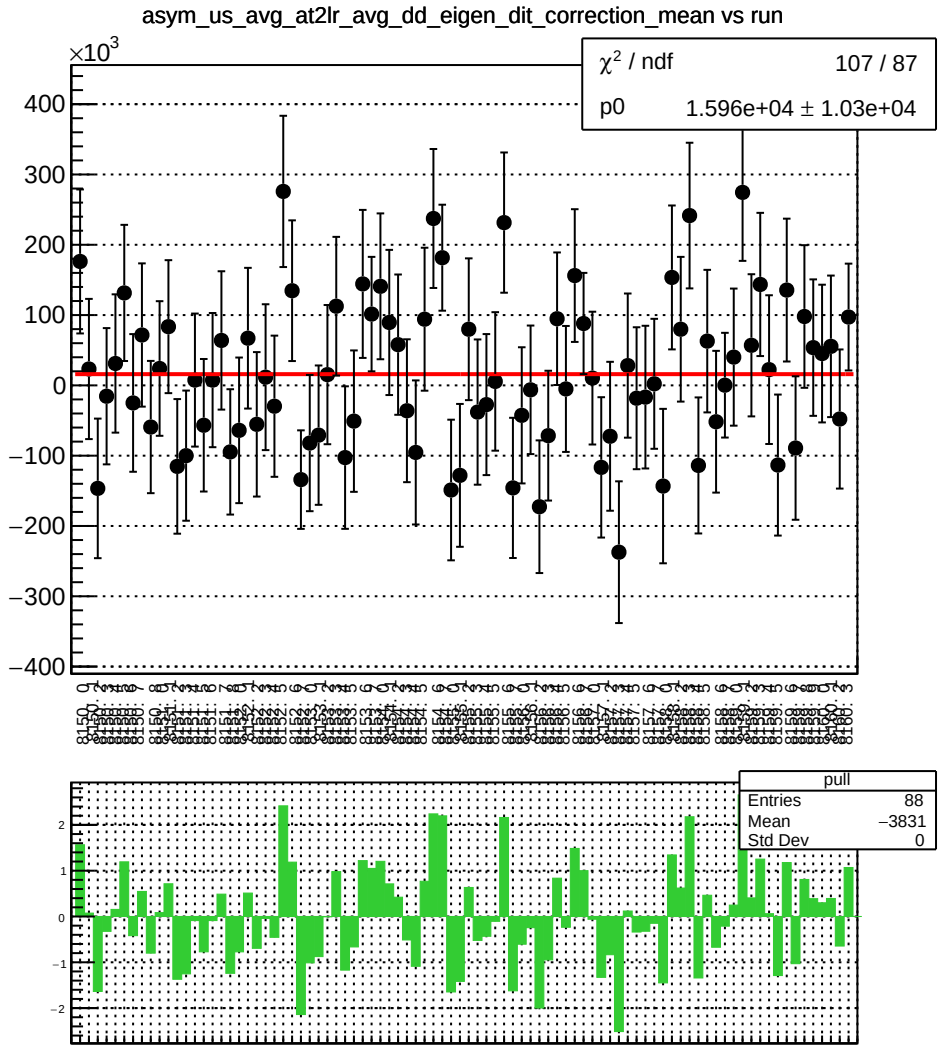

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 87
p0 1.596e+04 ± 1.03e+04
pull
Entries 88
Mean −3831
Std Dev 0

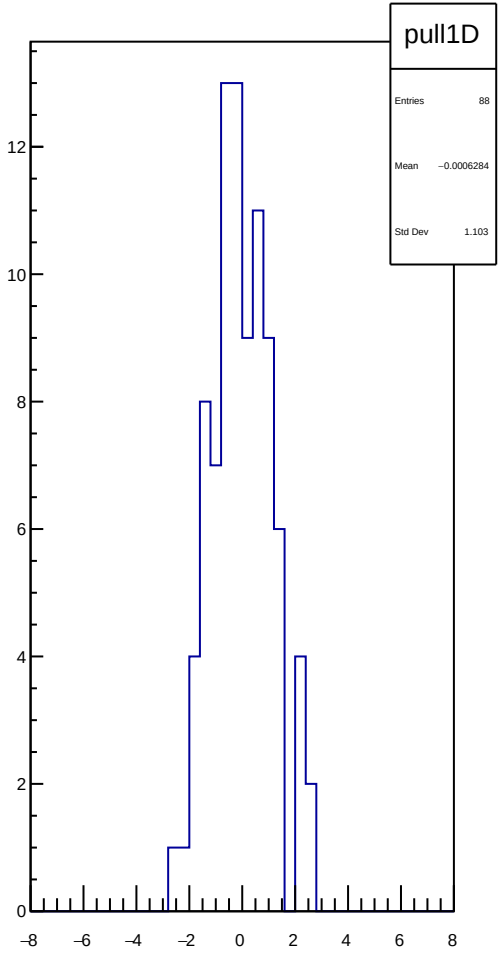

pull1D
Entries 88
Mean −0.0006284
Std Dev 1.103

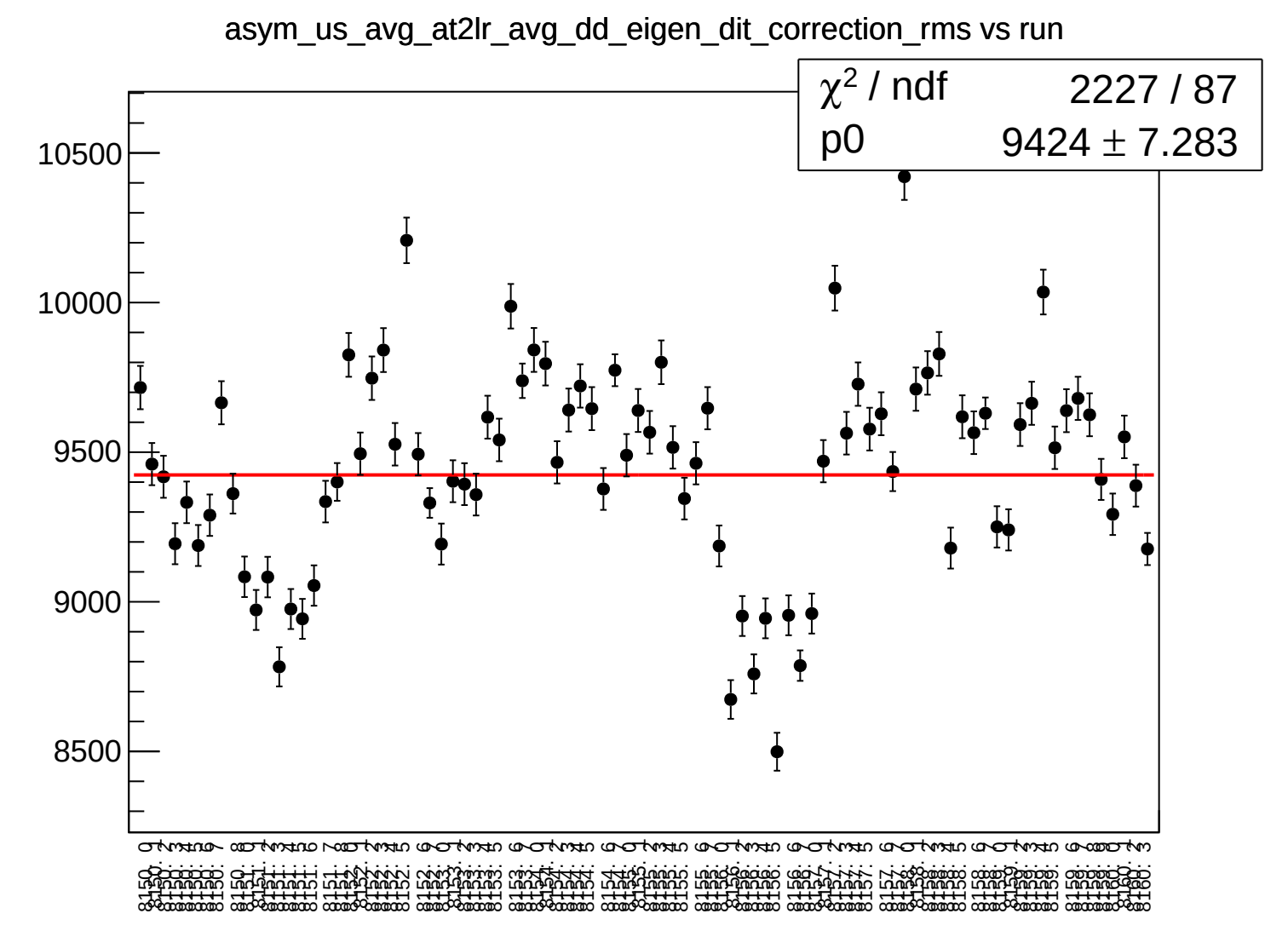

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2227 / 87
p0 9424 ± 7.283
10500
10000
9500
9000
8500

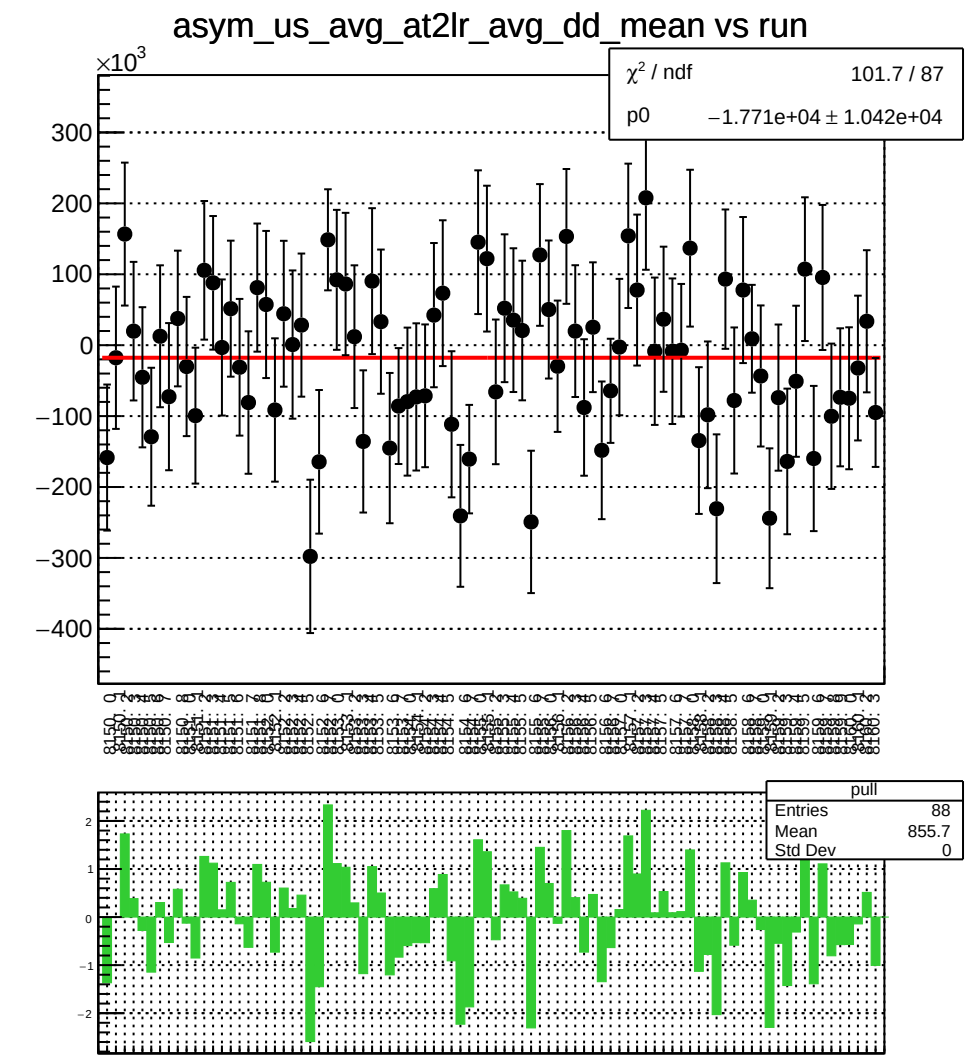

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 91.77 / 87
p0 −1626 ± 1962
pull
Entries 88
Mean 30.77
Std Dev 61.31
pull1D
Entries 88
Mean −0.02162
Std Dev 1.021

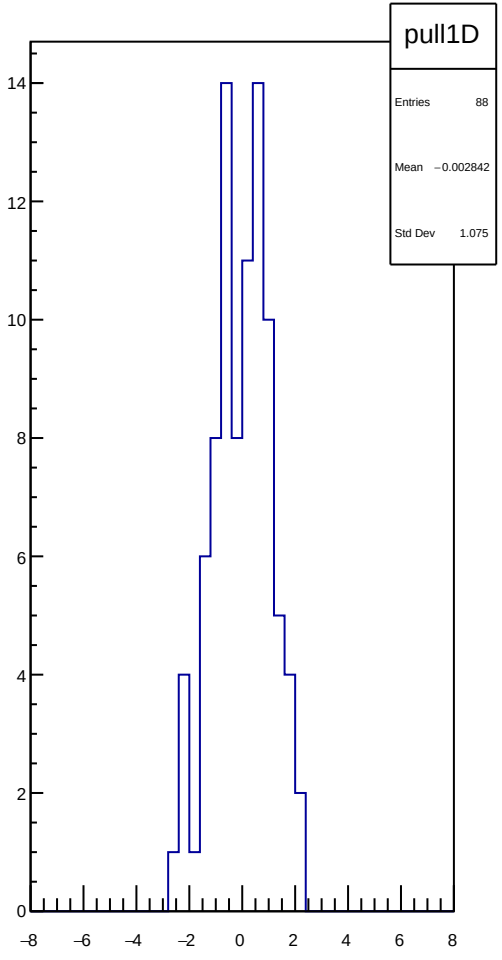

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 114.2 / 87
p0 1796 ± 1.387
1840
1820
1800
1780
1760
1740

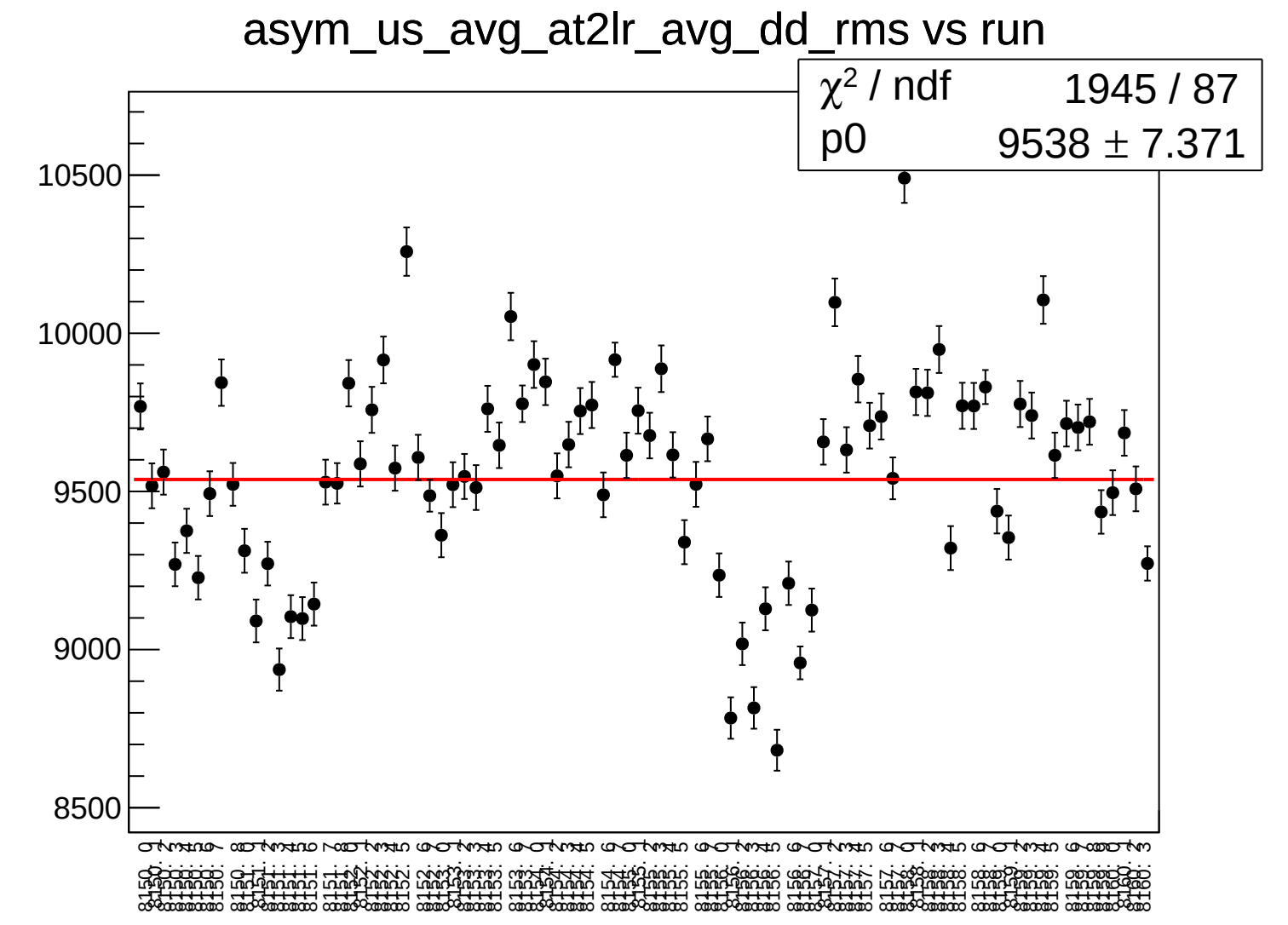

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 87
p0 1.596e+04 ± 1.03e+04
pull
Entries 88
Mean −3831
Std Dev 0

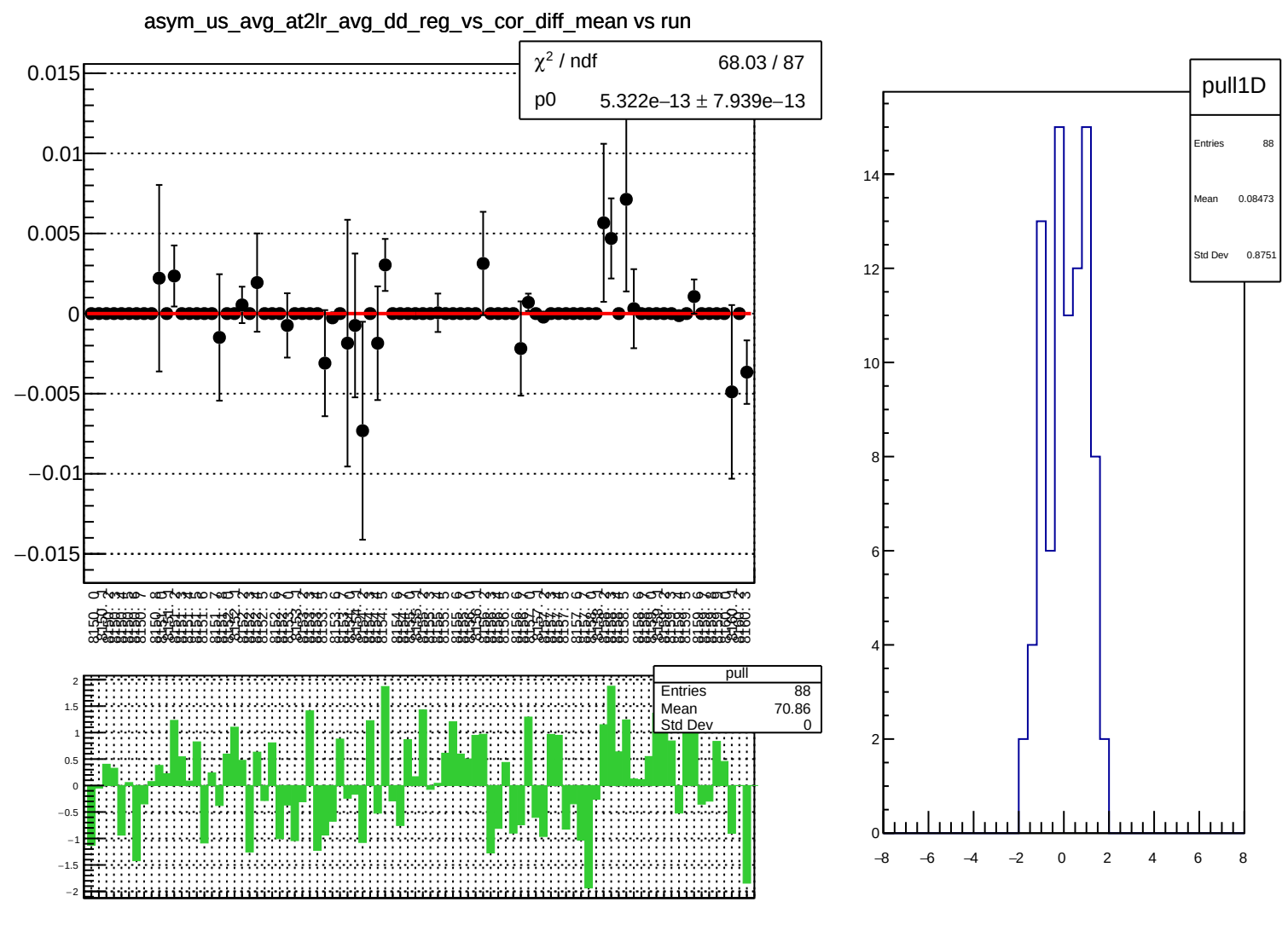

pull1D
Entries 88
Mean −0.0006284
Std Dev 1.103

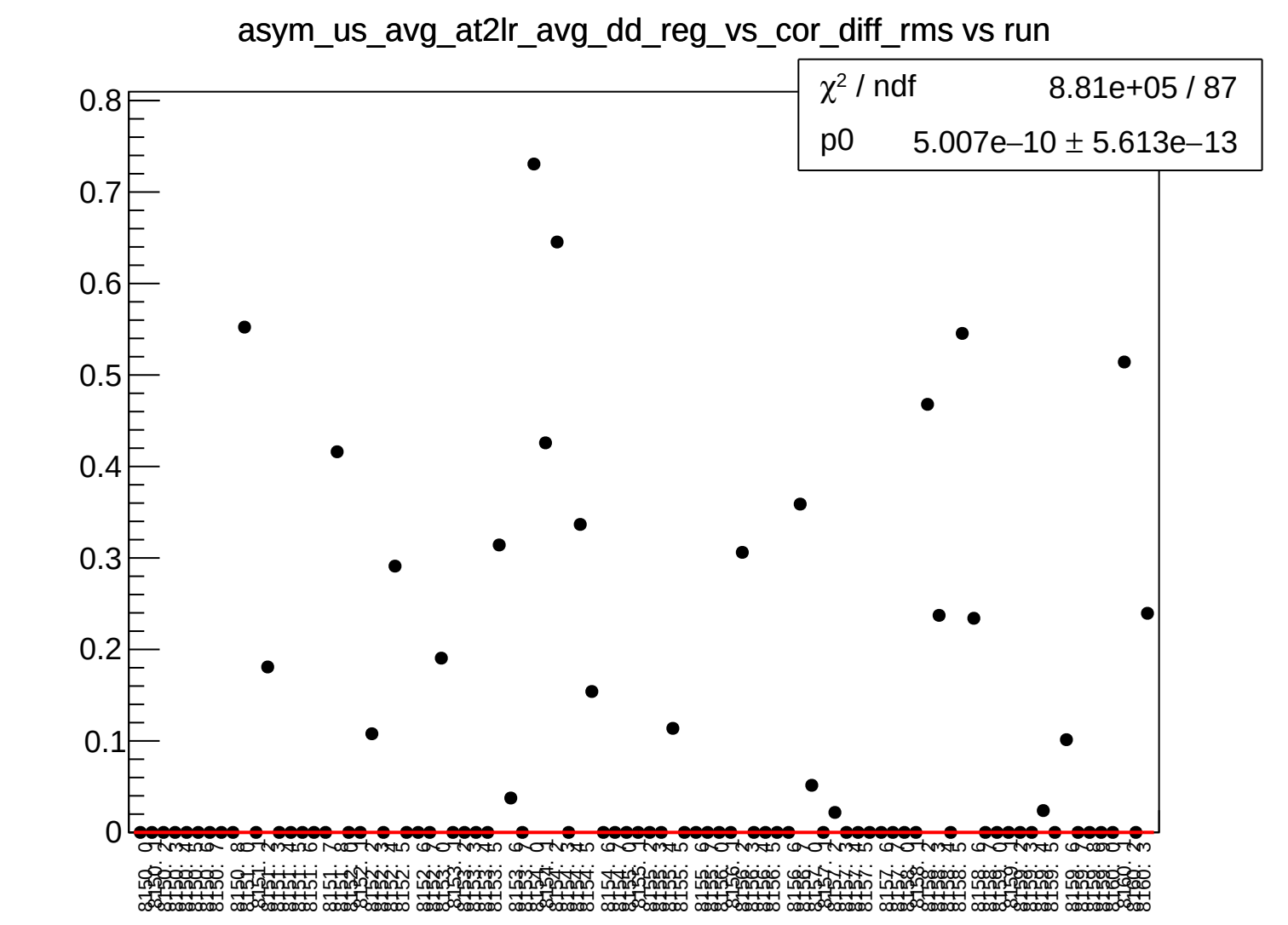

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2227 / 87
p0 9424 ± 7.283
10500
10000
9500
9000
8500

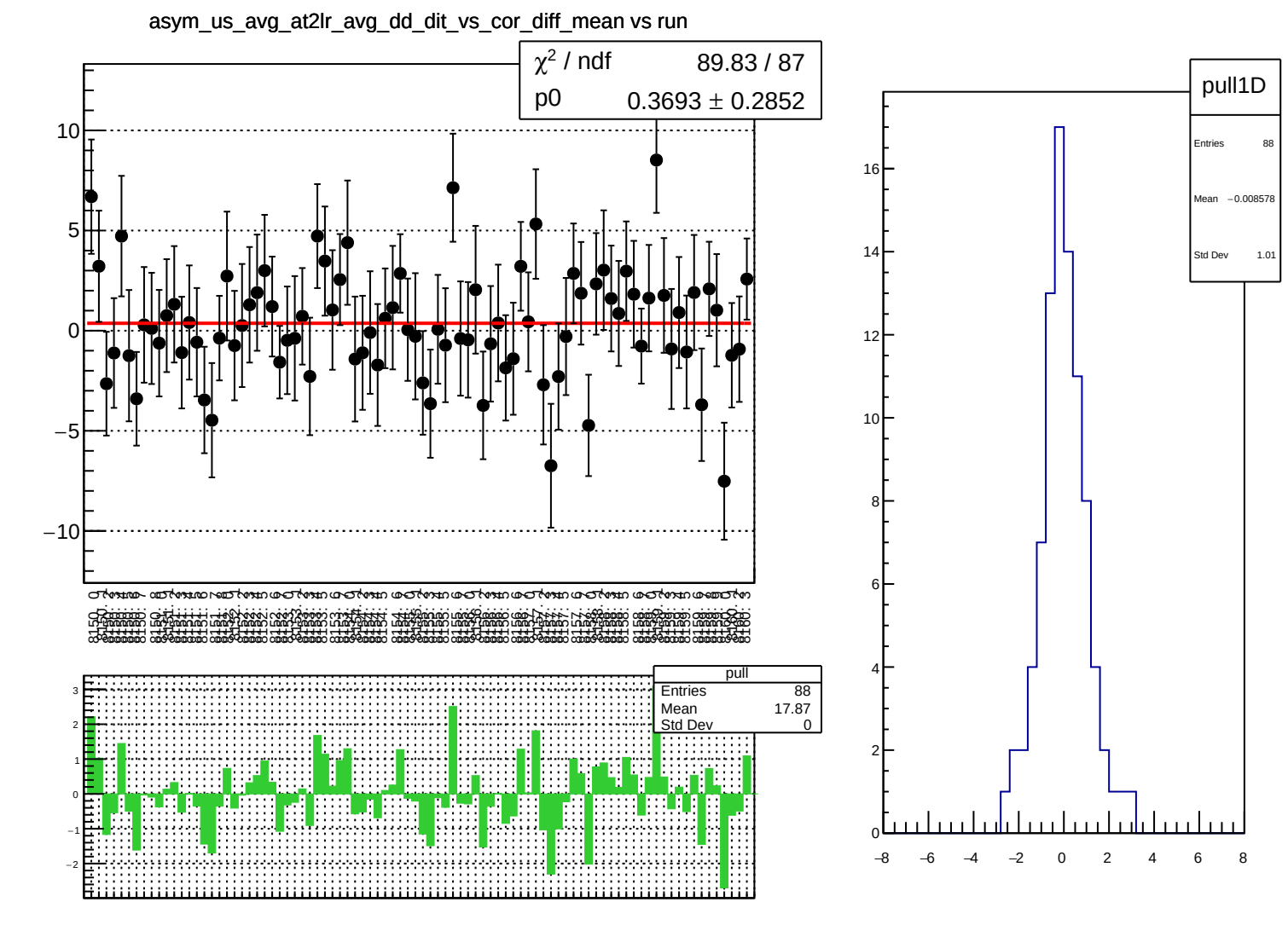

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 101.7 / 87
p0 −1.771e+04 ± 1.042e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 88
Mean 855.7
Std Dev 0
2
1
0
−1
−2

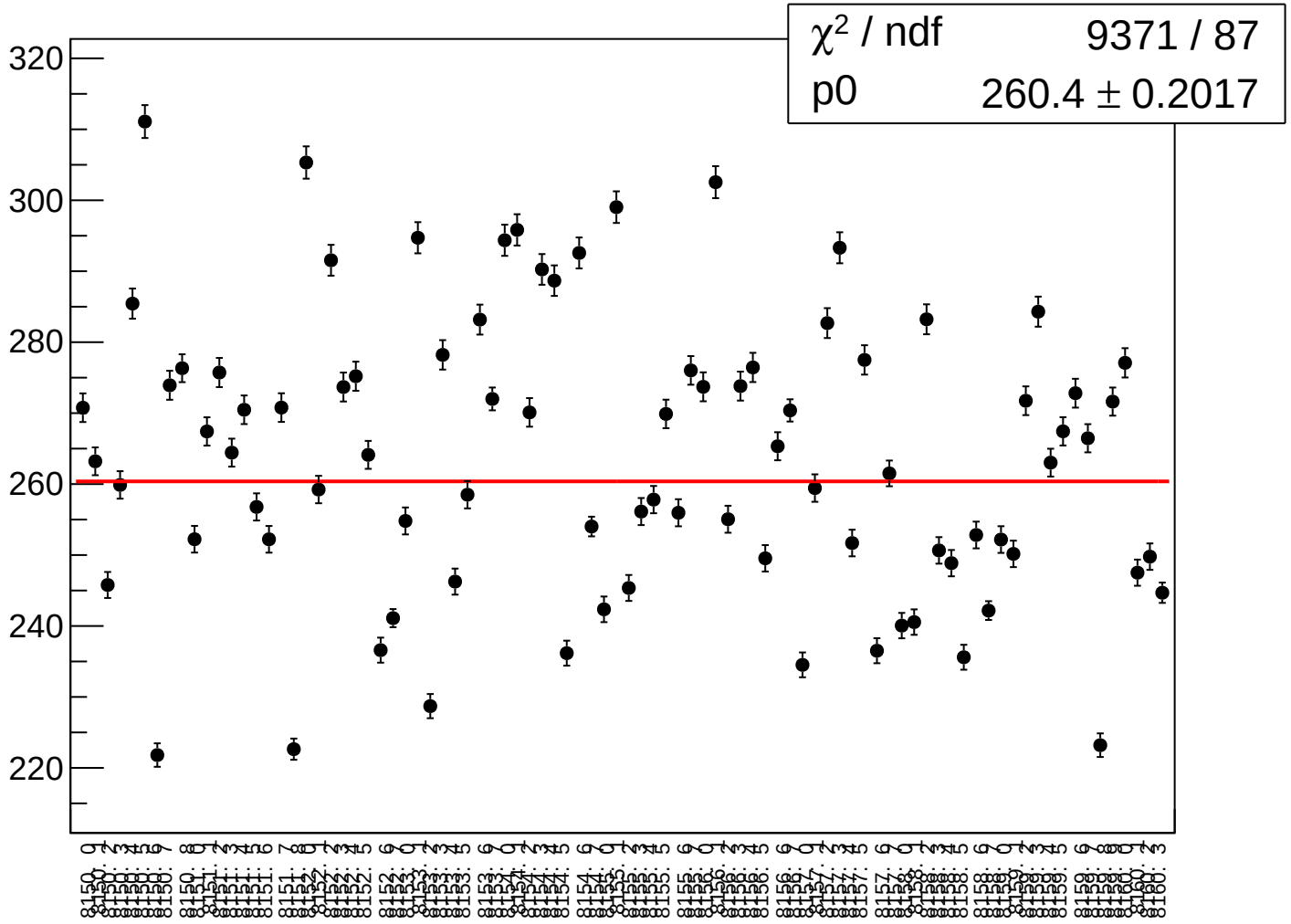

pull1D
Entries 88
Mean −0.002842
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

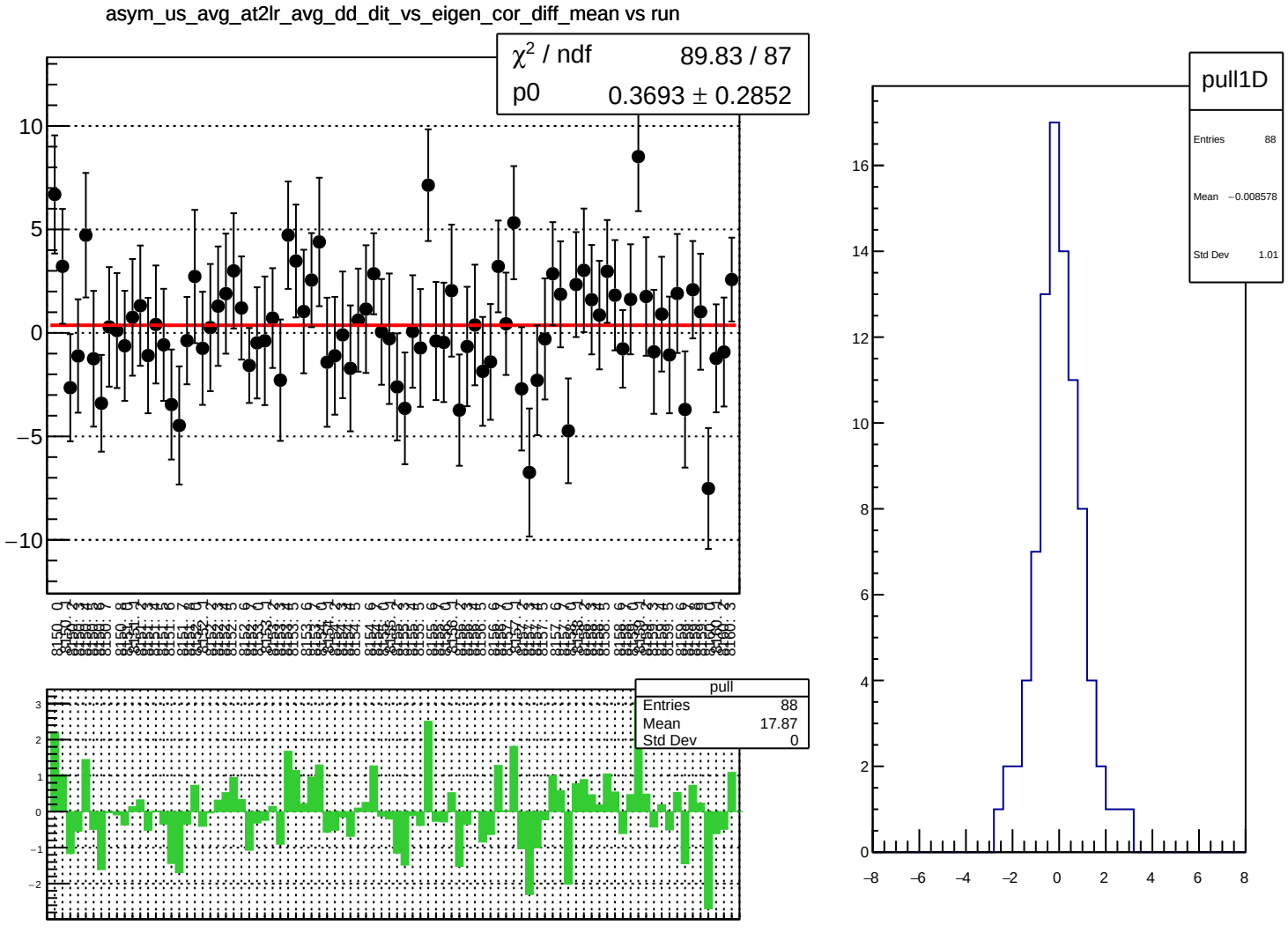

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1945 / 87
p0 9538 ± 7.371
10500
10000
9500
9000
8500

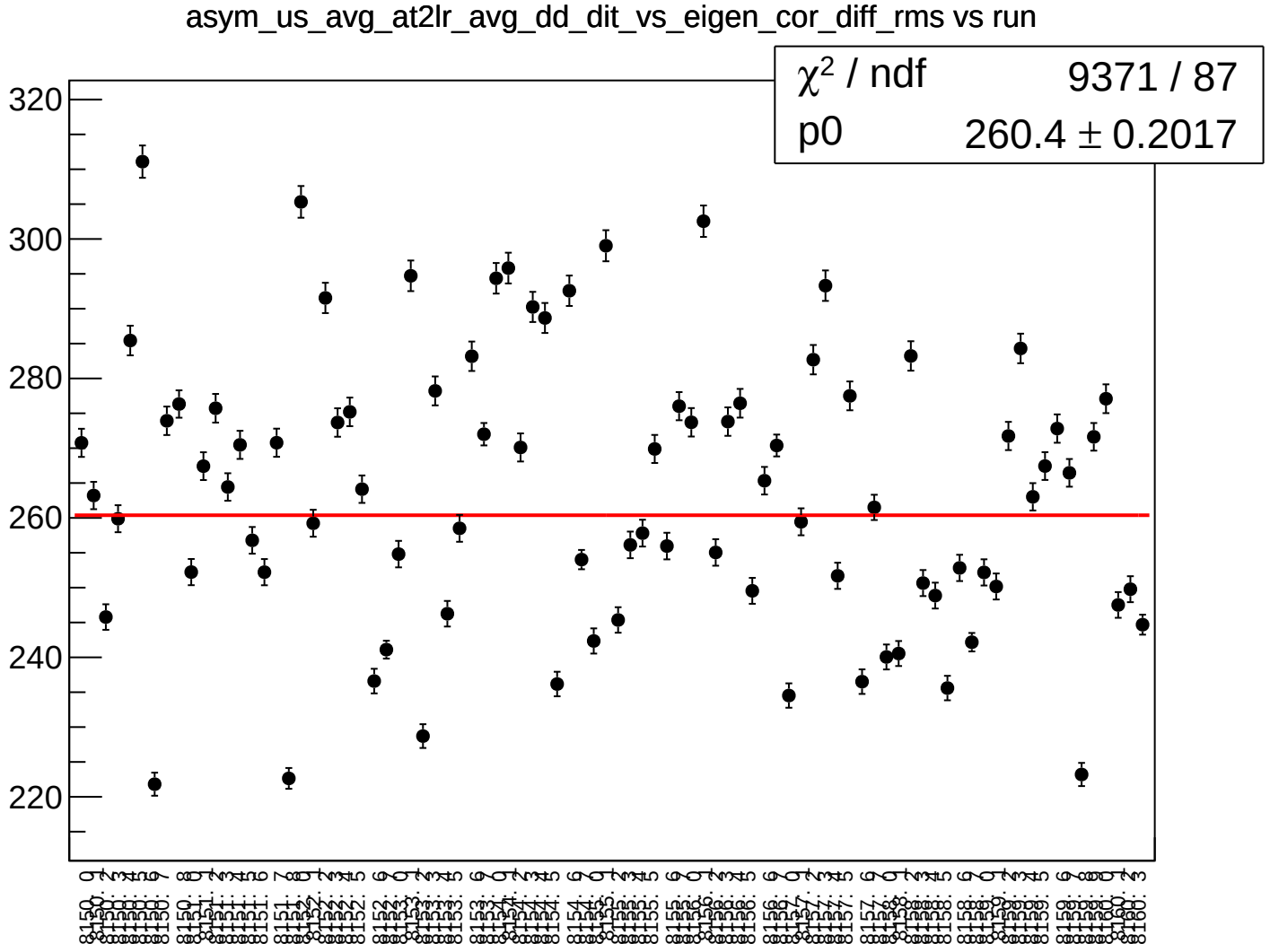

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 68.03 / 87
p0 5.322e−13 ± 7.939e−13
pull
Entries 88
Mean 70.86
Std Dev 0
pull1D
Entries 88
Mean 0.08473
Std Dev 0.8751

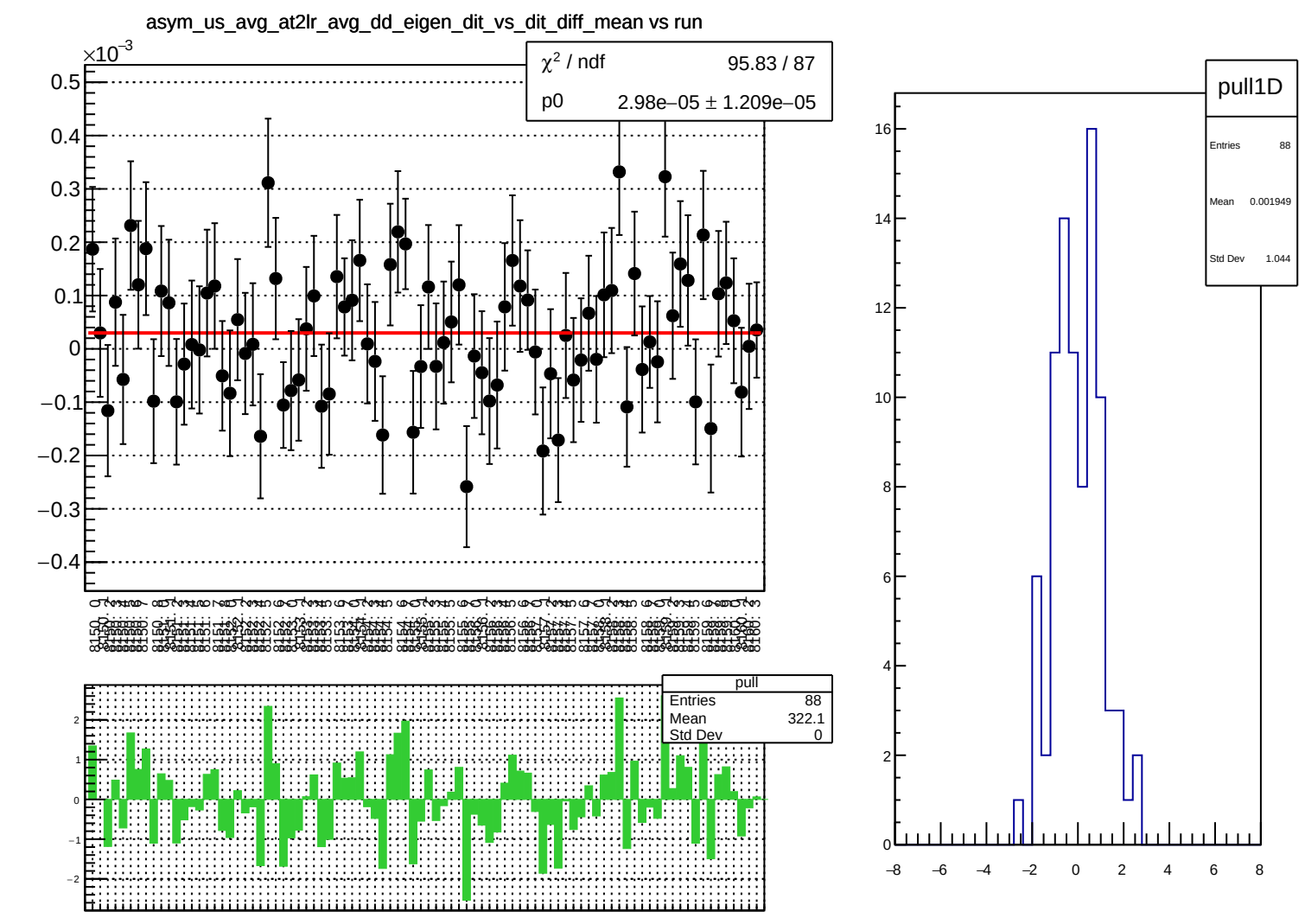

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.81e+05 / 87
p0 5.007e−10 ± 5.613e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

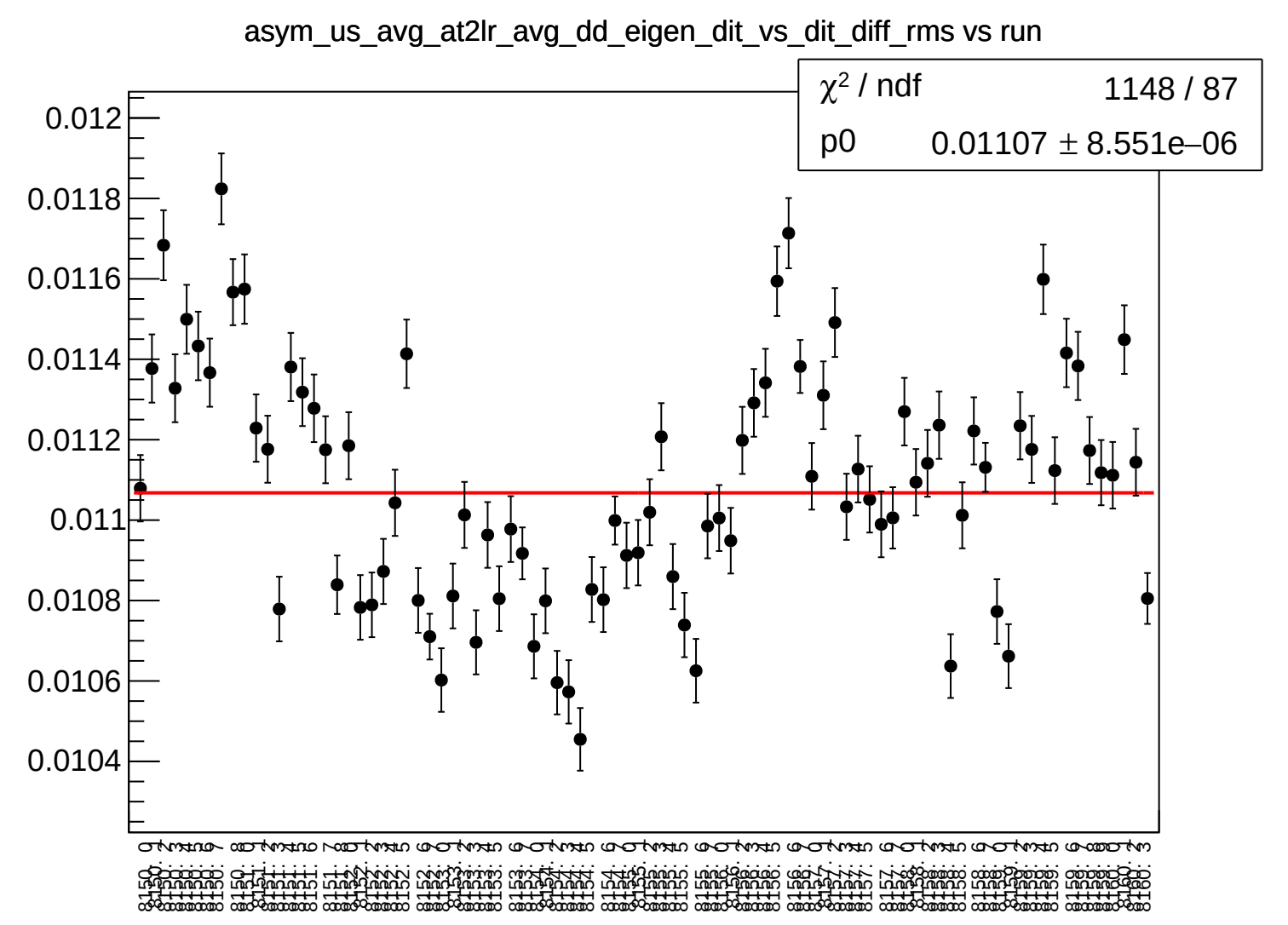

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.83 / 87
p0 0.3693 ± 0.2852
pull
Entries 88
Mean 17.87
Std Dev 0
pull1D
Entries 88
Mean −0.008578
Std Dev 1.01

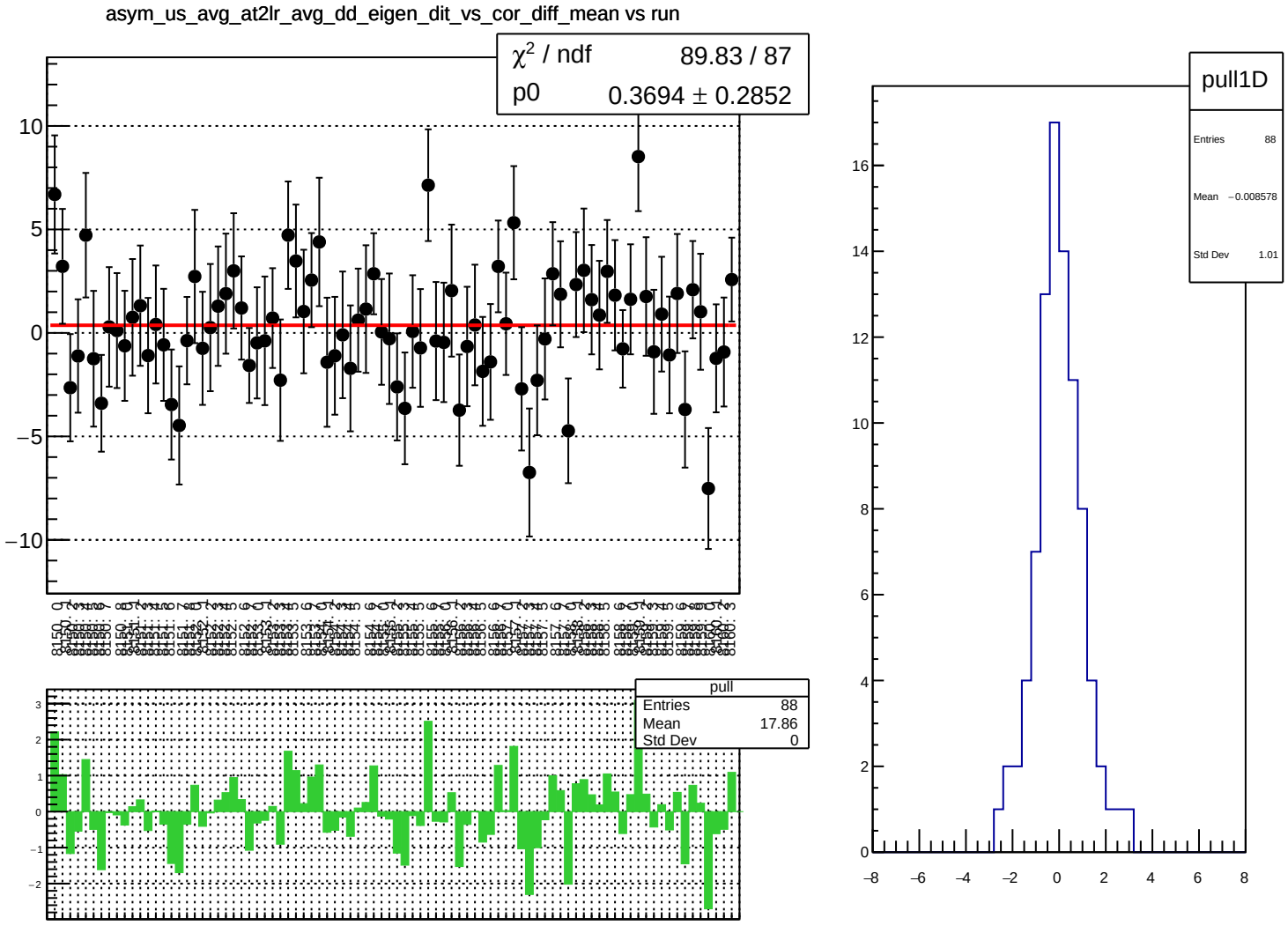

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9371 / 87
p0 260.4 ± 0.2017
320
300
280
260
240
220

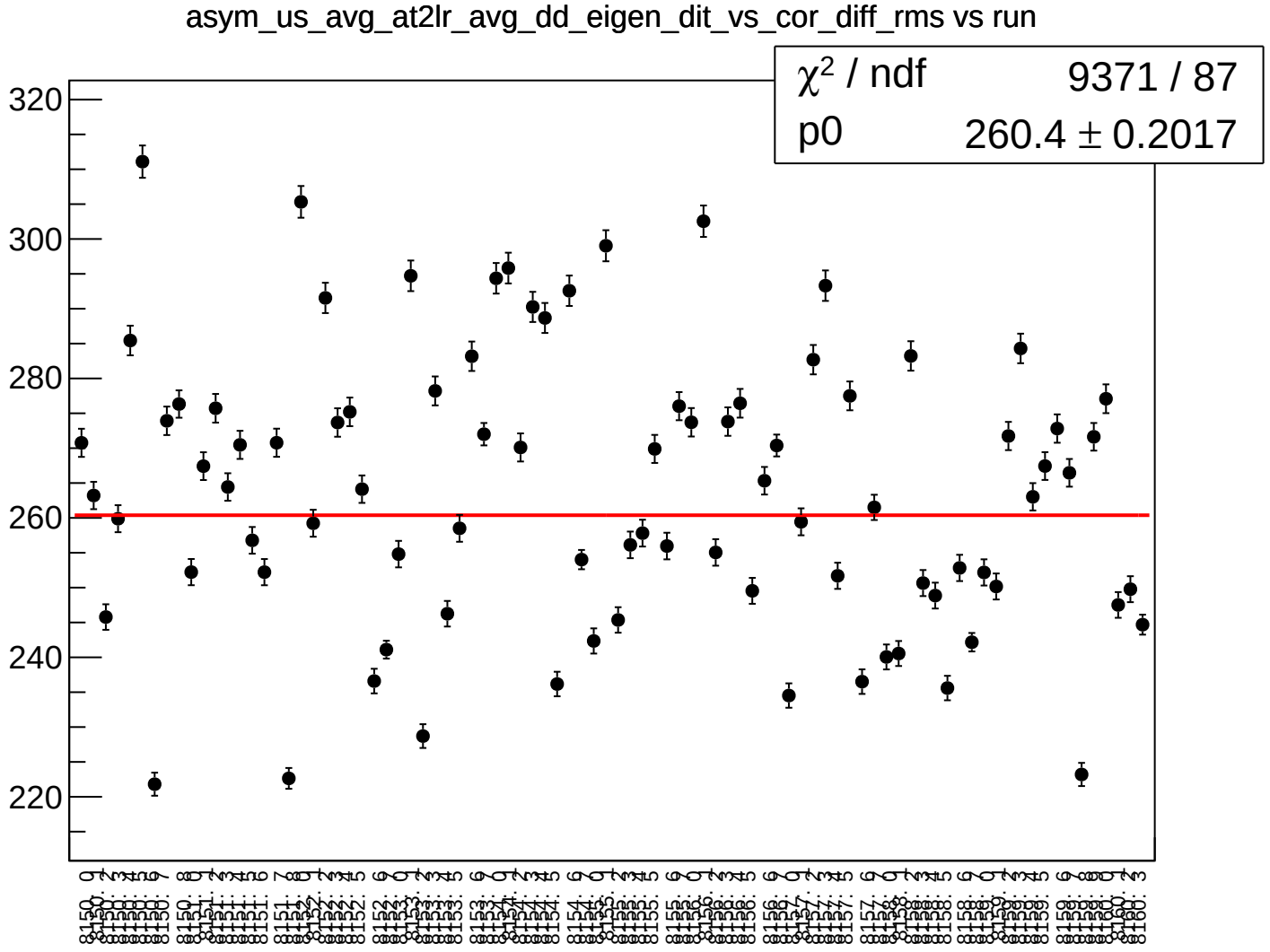

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.83 / 87
p0 0.3693 ± 0.2852
pull
Entries 88
Mean 17.87
Std Dev 0
pull1D
Entries 88
Mean −0.008578
Std Dev 1.01

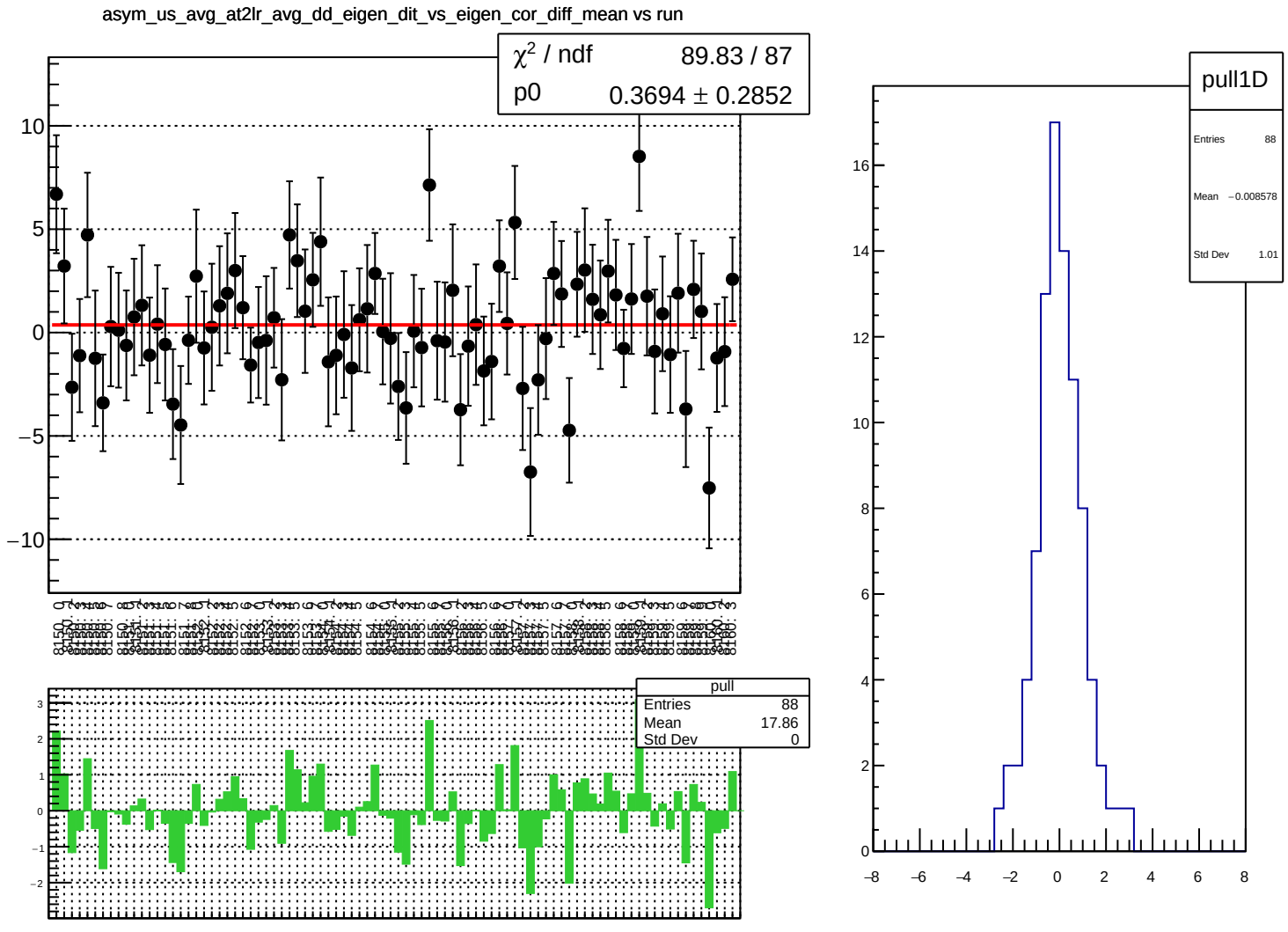

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9371 / 87
p0 260.4 ± 0.2017
320
300
280
260
240
220

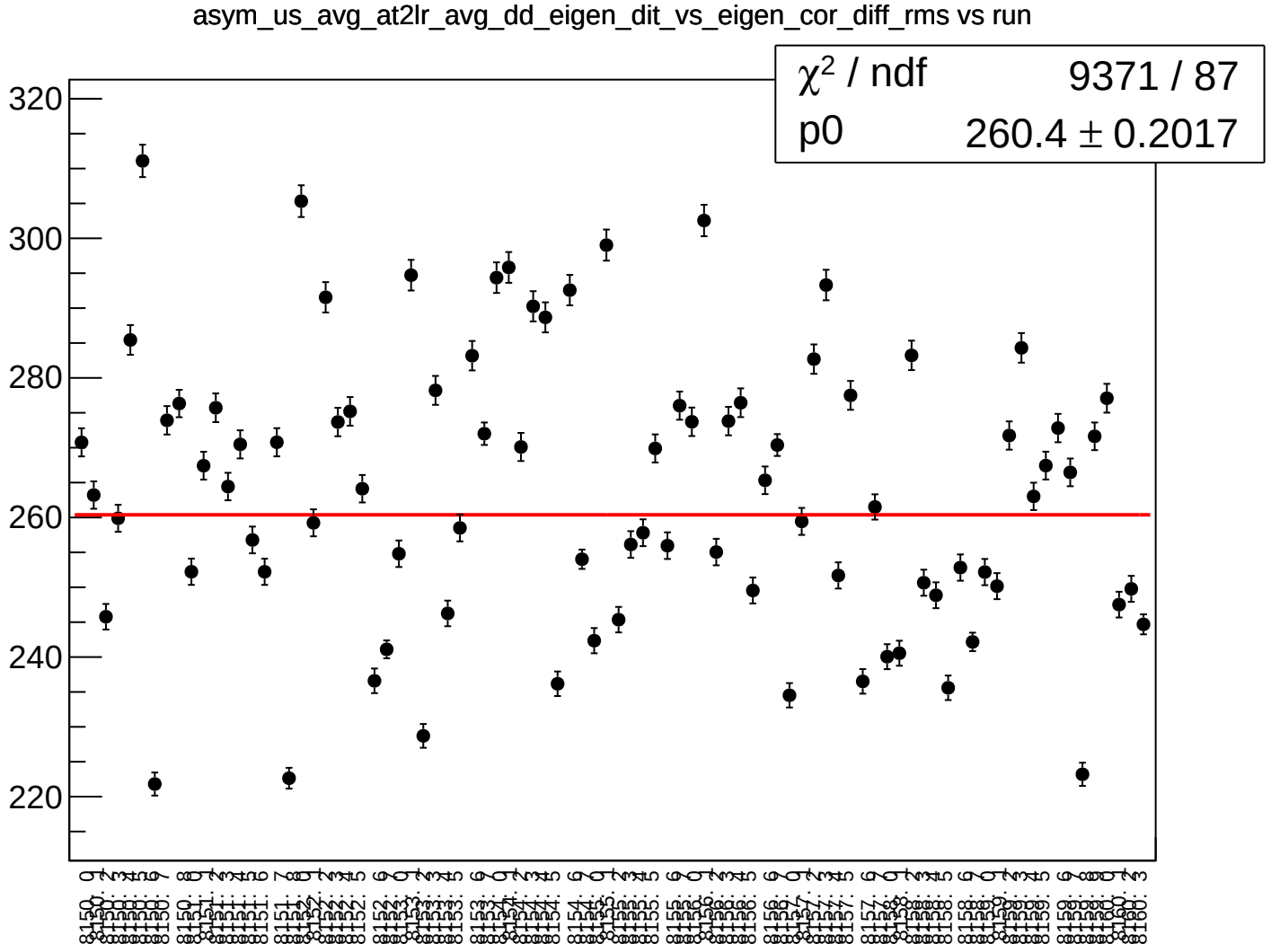

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.83 / 87
p0 2.98e−05 ± 1.209e−05
pull
Entries 88
Mean 322.1
Std Dev 0
pull1D
Entries 88
Mean 0.001949
Std Dev 1.044

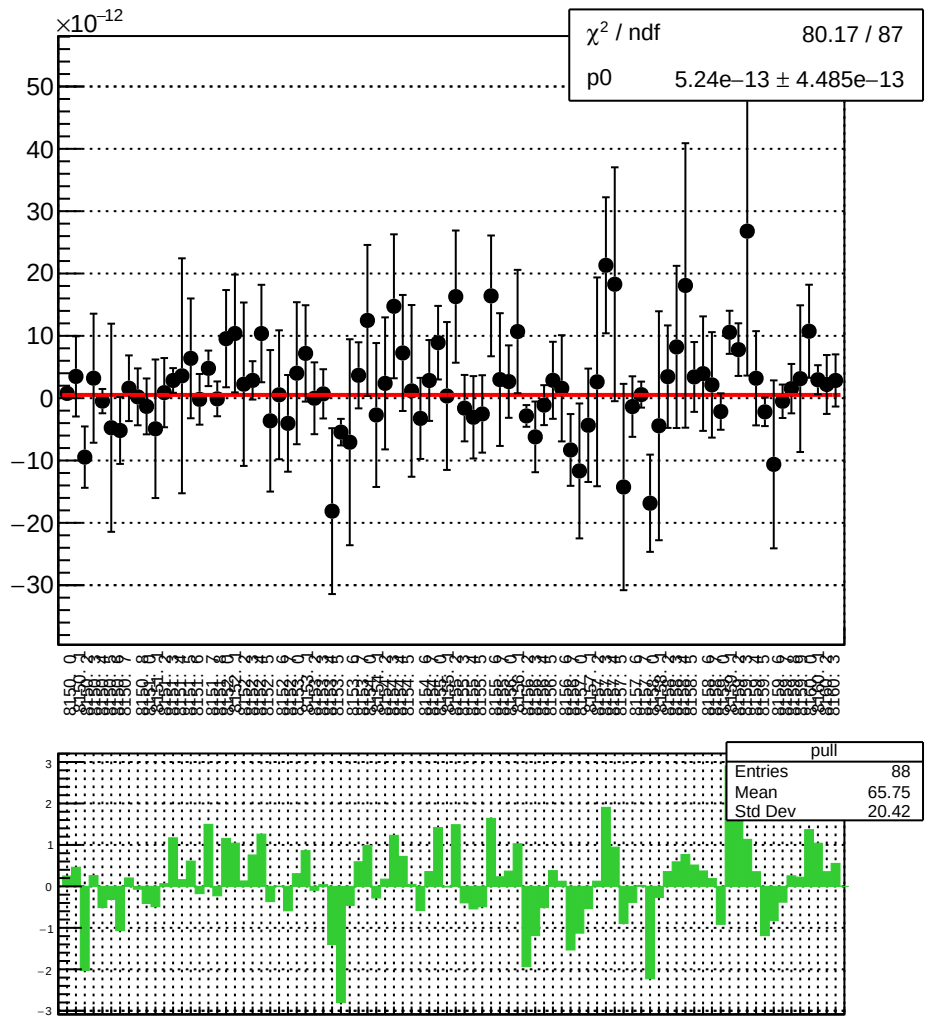

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1148 / 87
p0 0.01107 ± 8.551e–06
0.012
0.0118
0.0116
0.0114
0.0112
0.011
0.0108
0.0106
0.0104

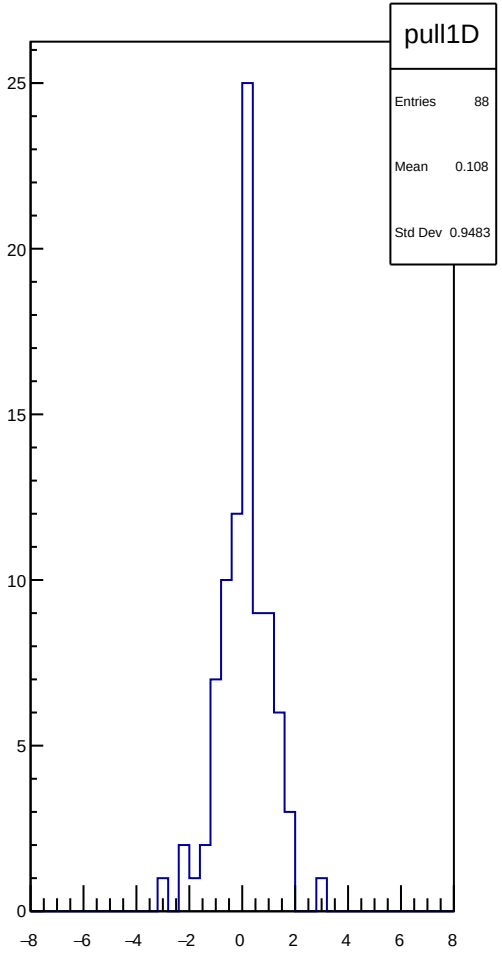

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.83 / 87
p0 0.3694 ± 0.2852
pull
Entries 88
Mean 17.86
Std Dev 0
pull1D
Entries 88
Mean −0.008578
Std Dev 1.01

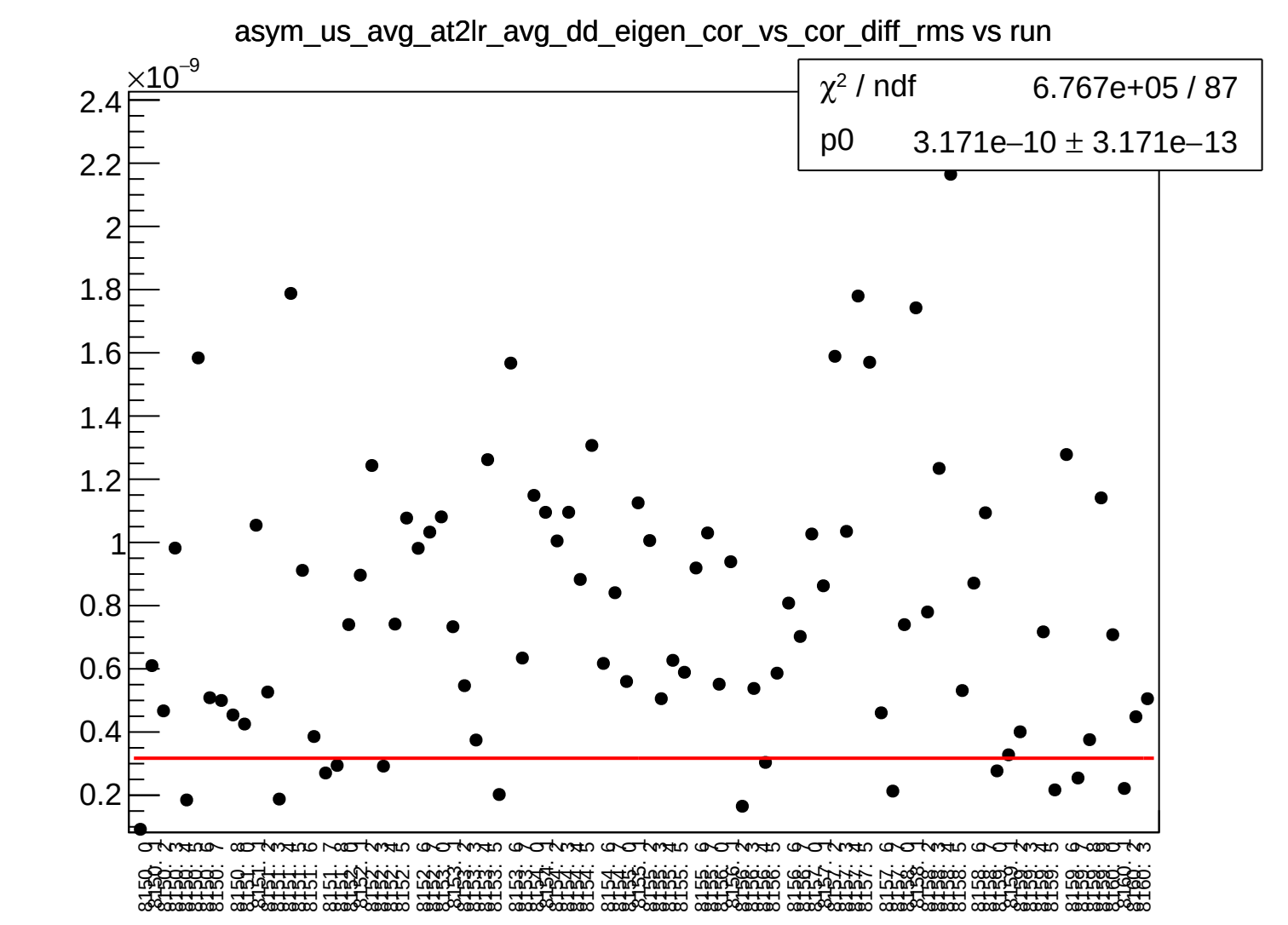

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9371 / 87
p0 260.4 ± 0.2017
320
300
280
260
240
220

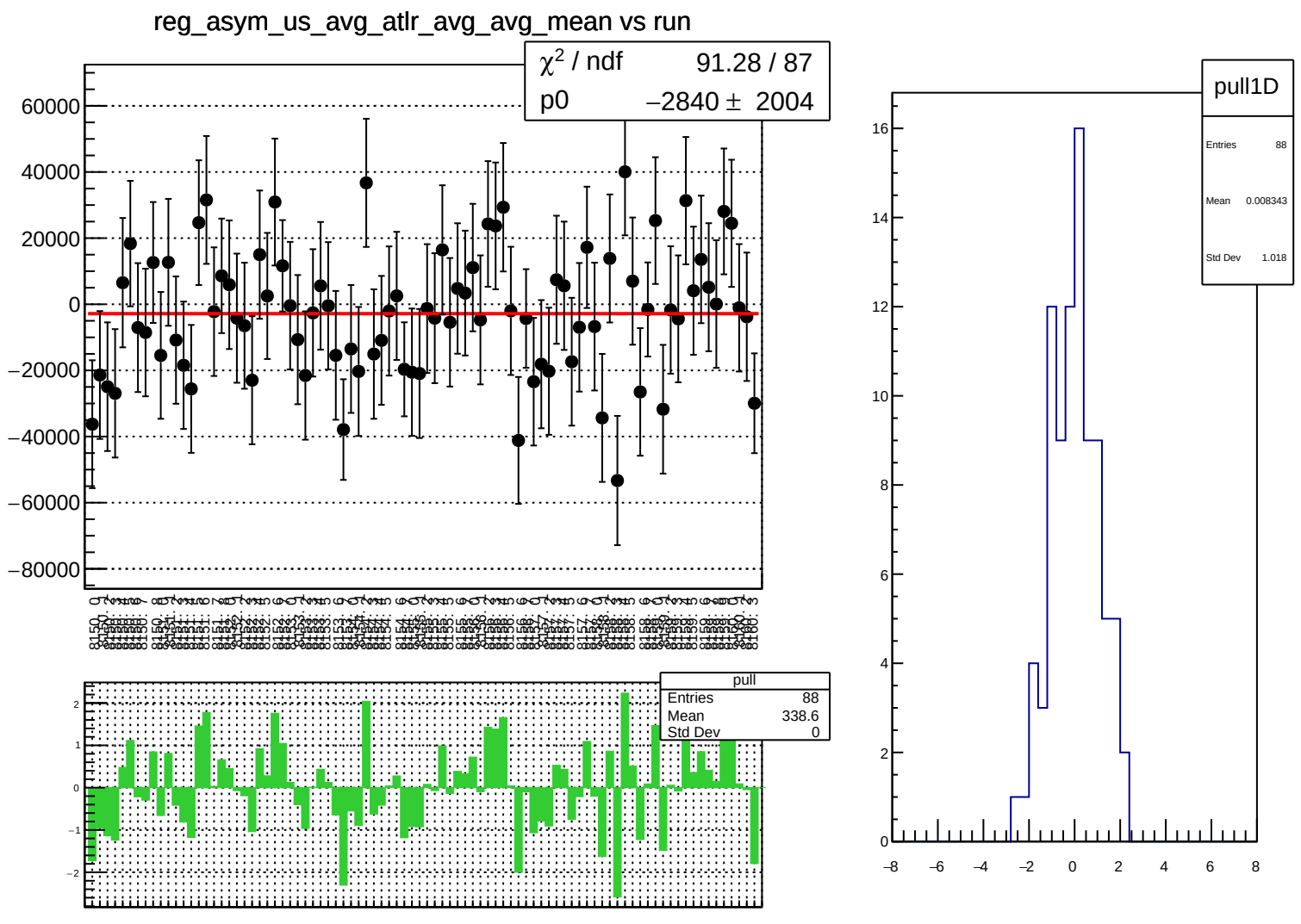

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.83 / 87
p0 0.3694 ± 0.2852
pull
Entries 88
Mean 17.86
Std Dev 0
pull1D
Entries 88
Mean −0.008578
Std Dev 1.01

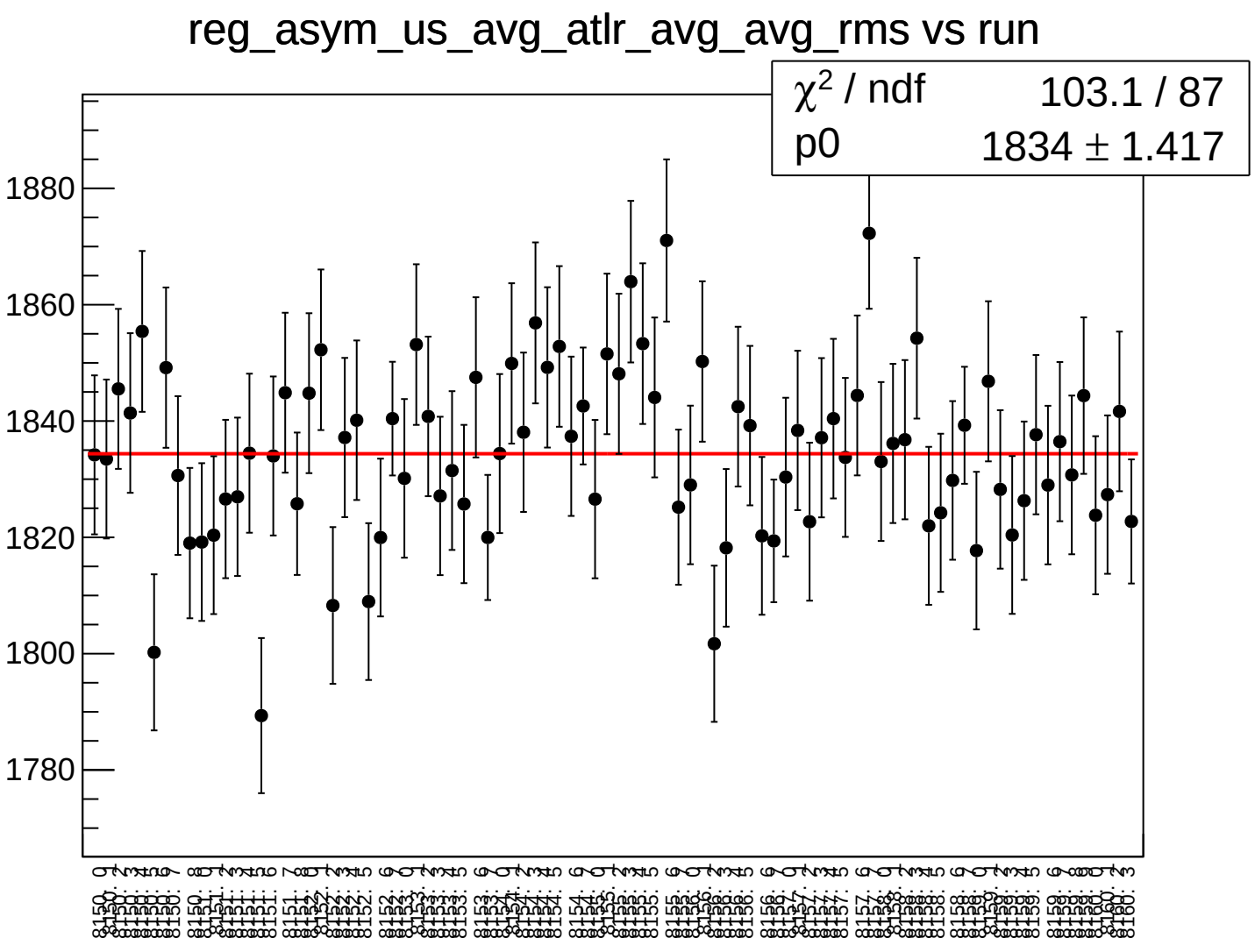

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9371 / 87
p0 260.4 ± 0.2017
320
300
280
260
240
220

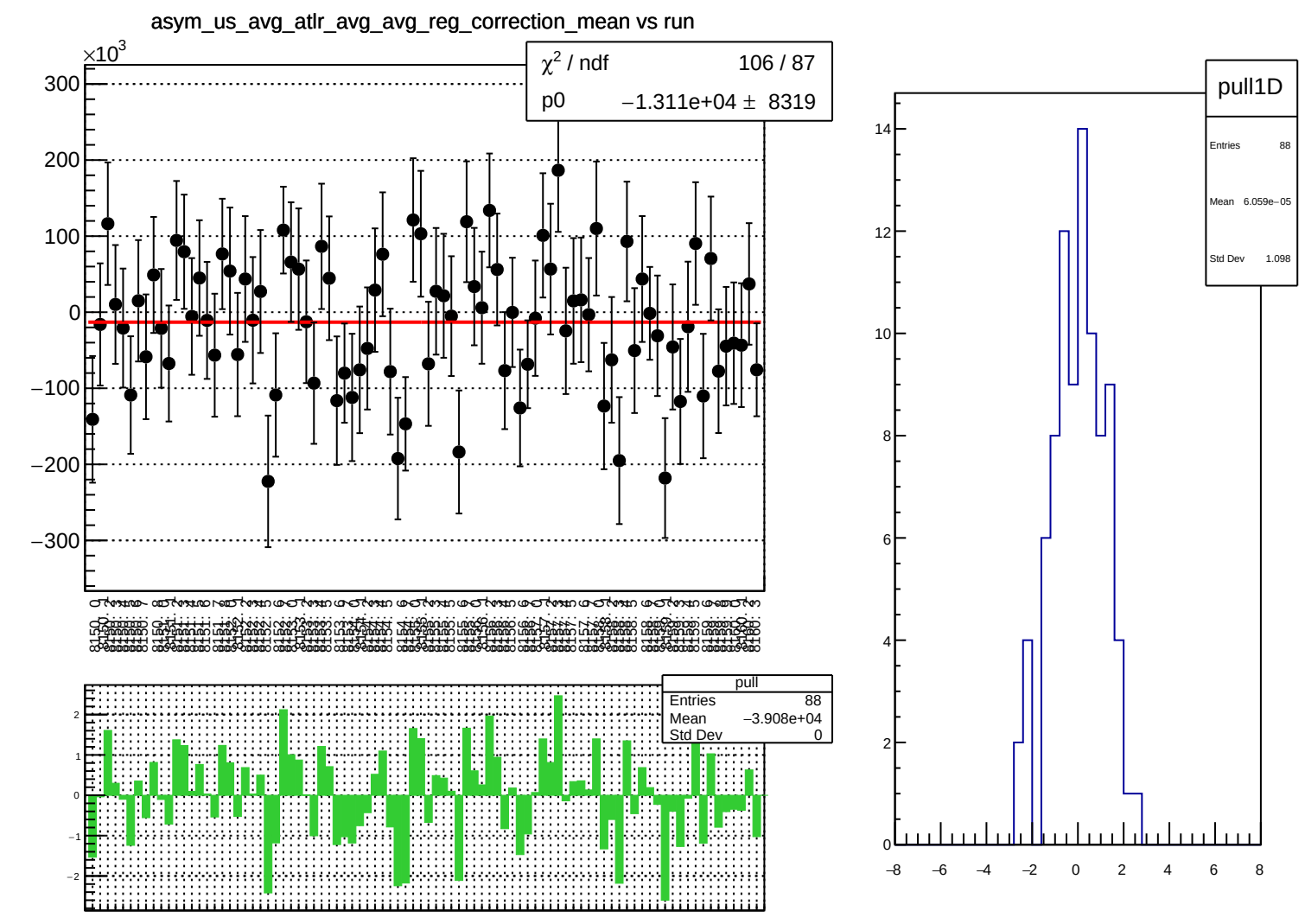

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.17 / 87
p0 5.24e−13 ± 4.485e−13
pull
Entries 88
Mean 65.75
Std Dev 20.42

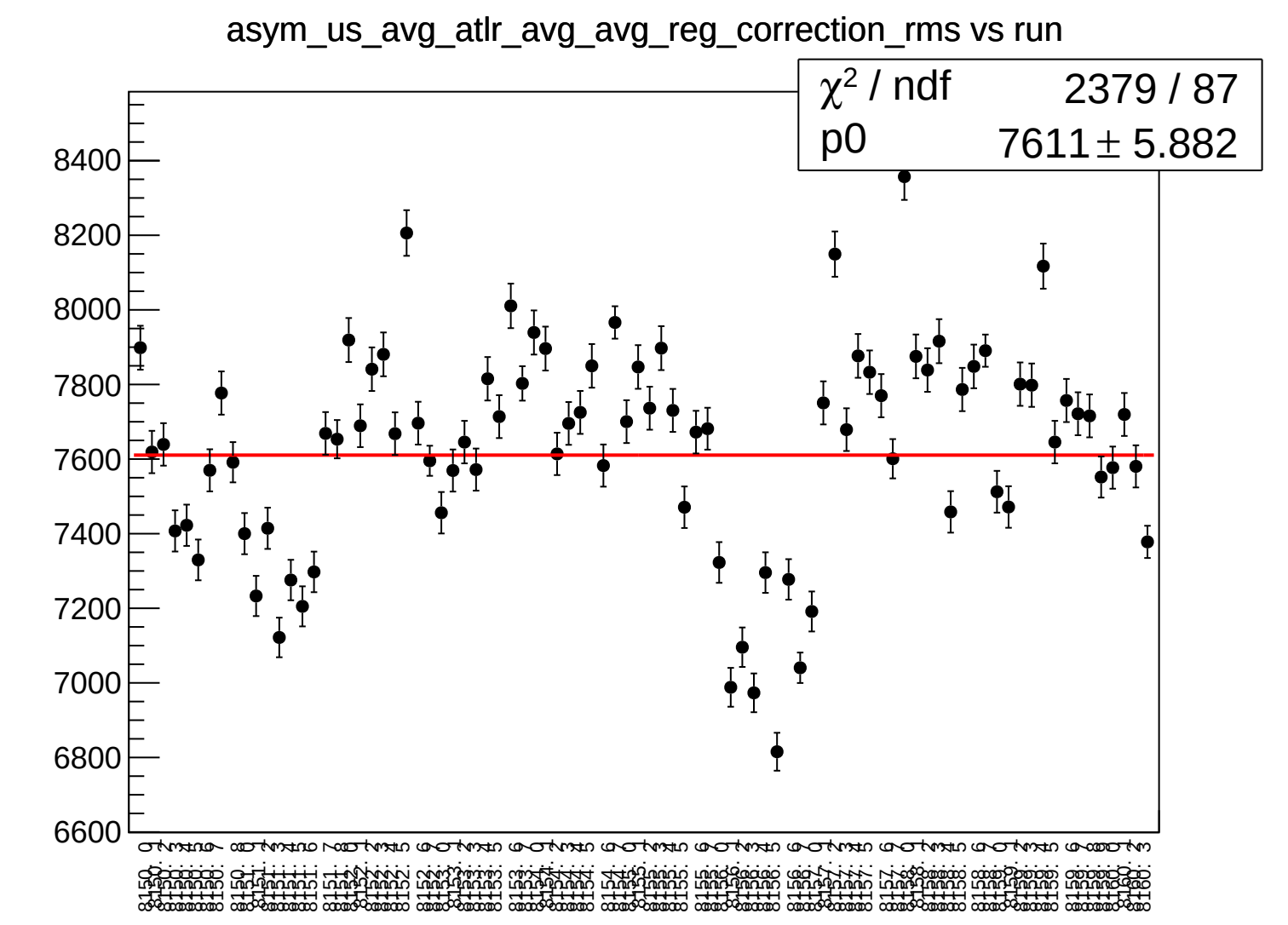

pull1D
Entries 88
Mean 0.108
Std Dev 0.9483

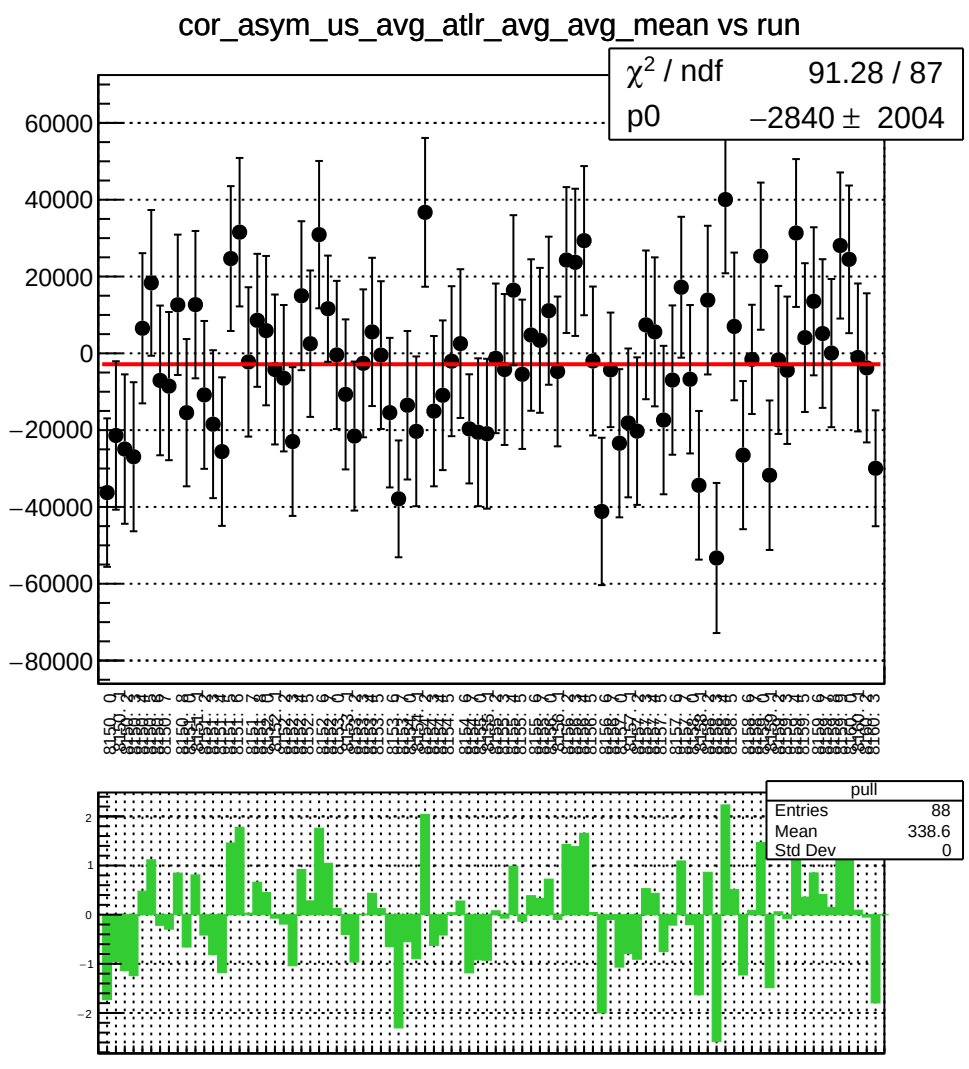

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.767e+05 / 87
p0 3.171e−10 ± 3.171e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

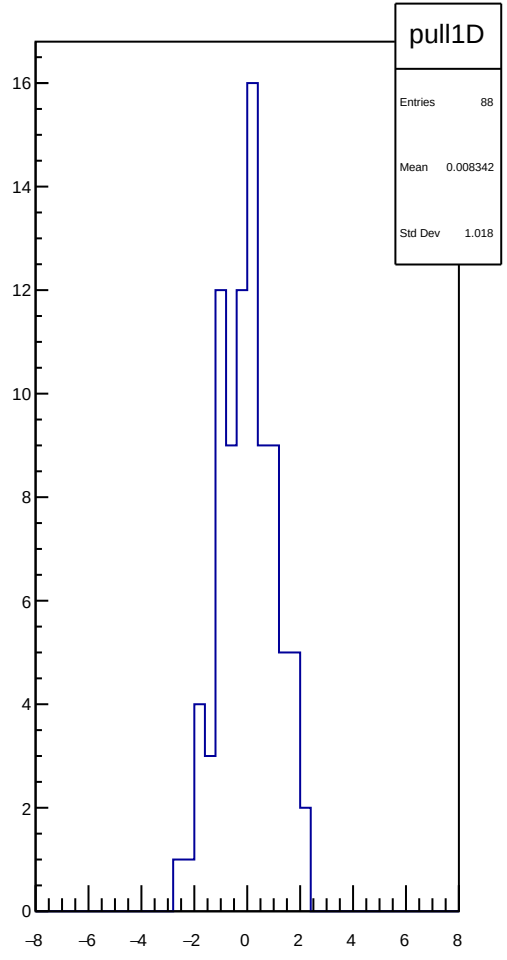

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 91.28 / 87
p0 −2840 ± 2004
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 338.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.008343
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

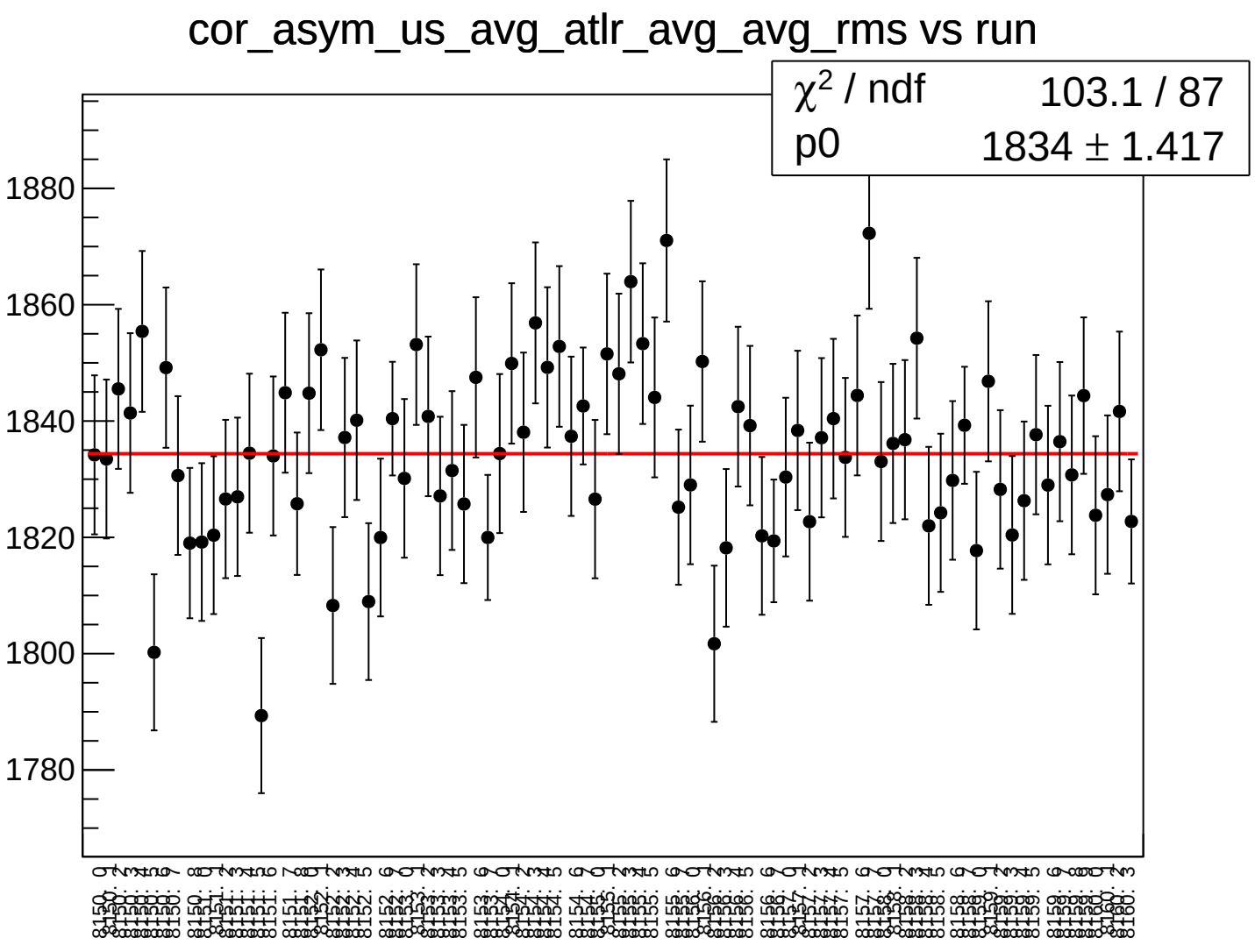

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 103.1 / 87
p0 1834 ± 1.417
1880
1860
1840
1820
1800
1780

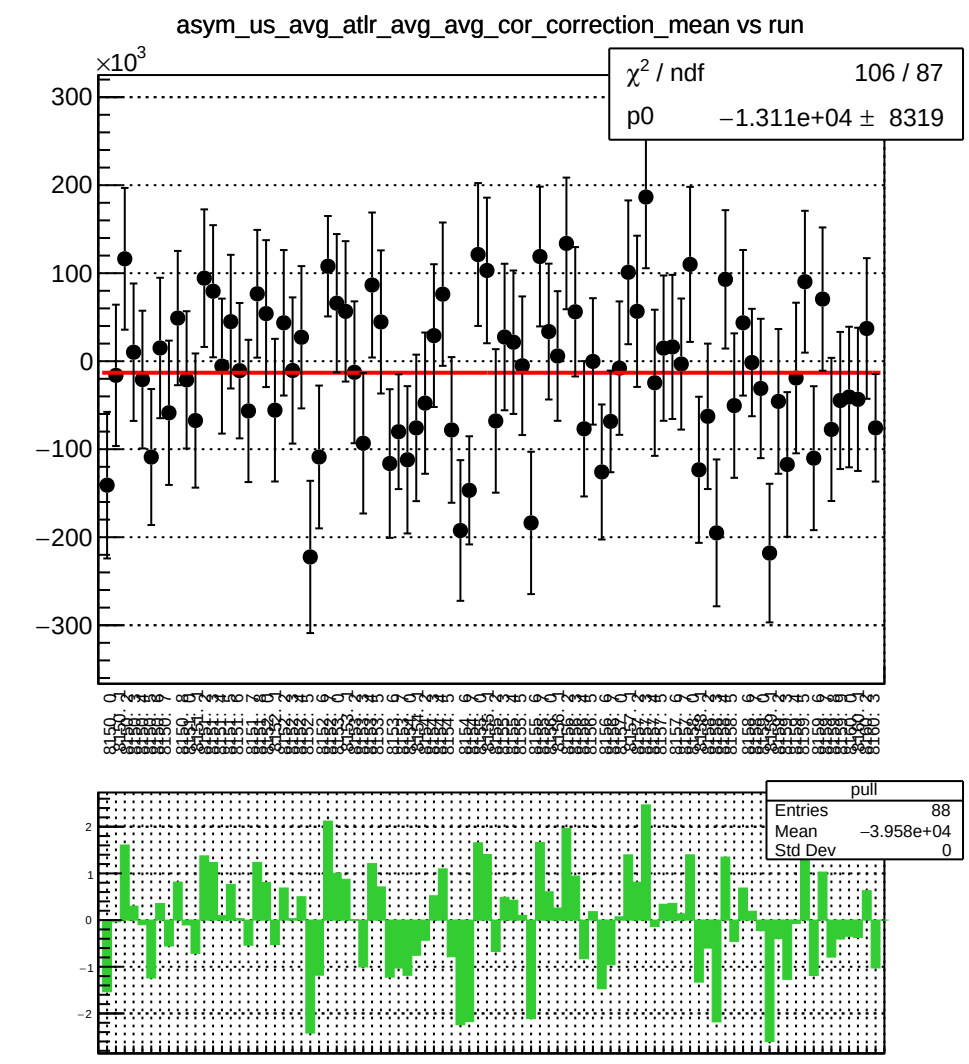

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 106 / 87
p0 −1.311e+04 ± 8319
pull
Entries 88
Mean −3.908e+04
Std Dev 0
pull1D
Entries 88
Mean 6.059e−05
Std Dev 1.098

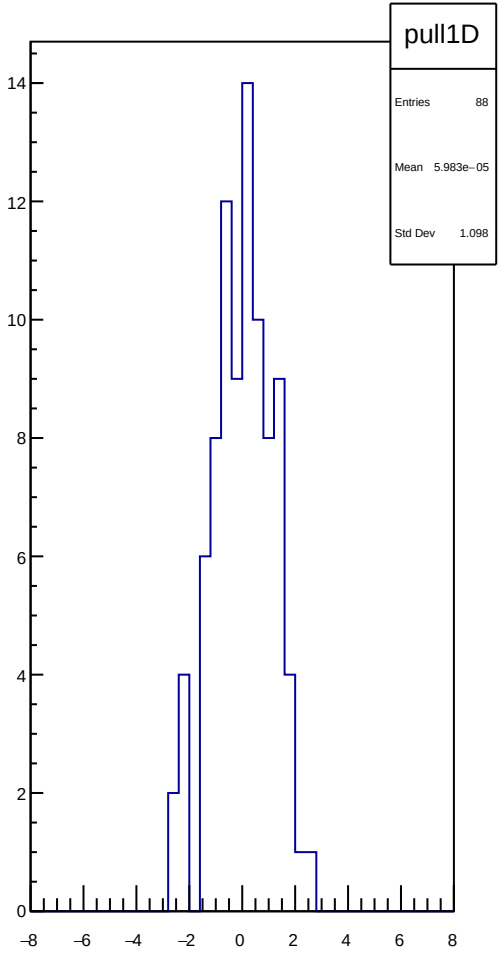

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 2379 / 87
p0 7611 ± 5.882
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

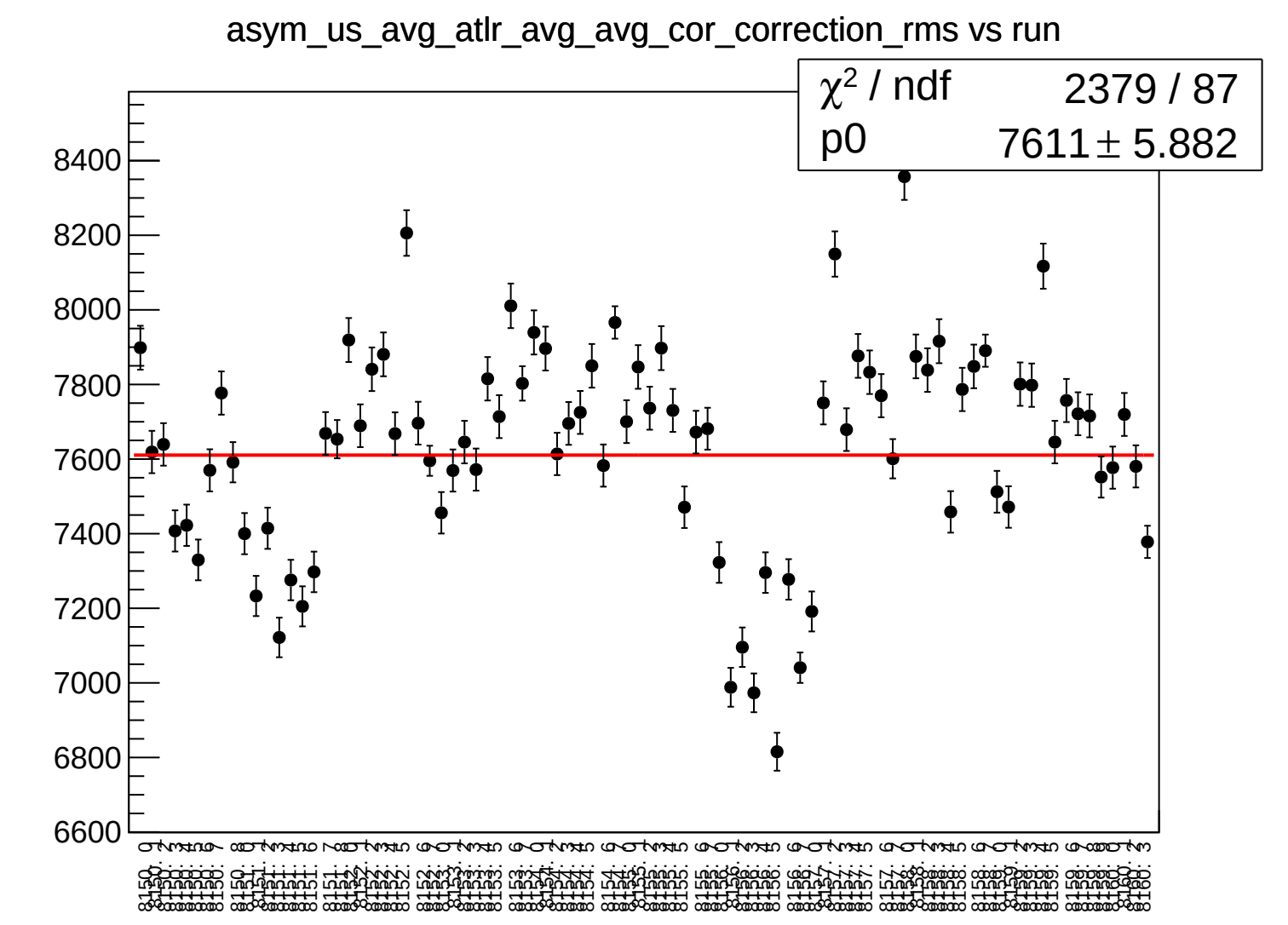

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 91.28 / 87
p0 −2840 ± 2004
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 338.6
Std Dev 0
2
1
0
−1
−2

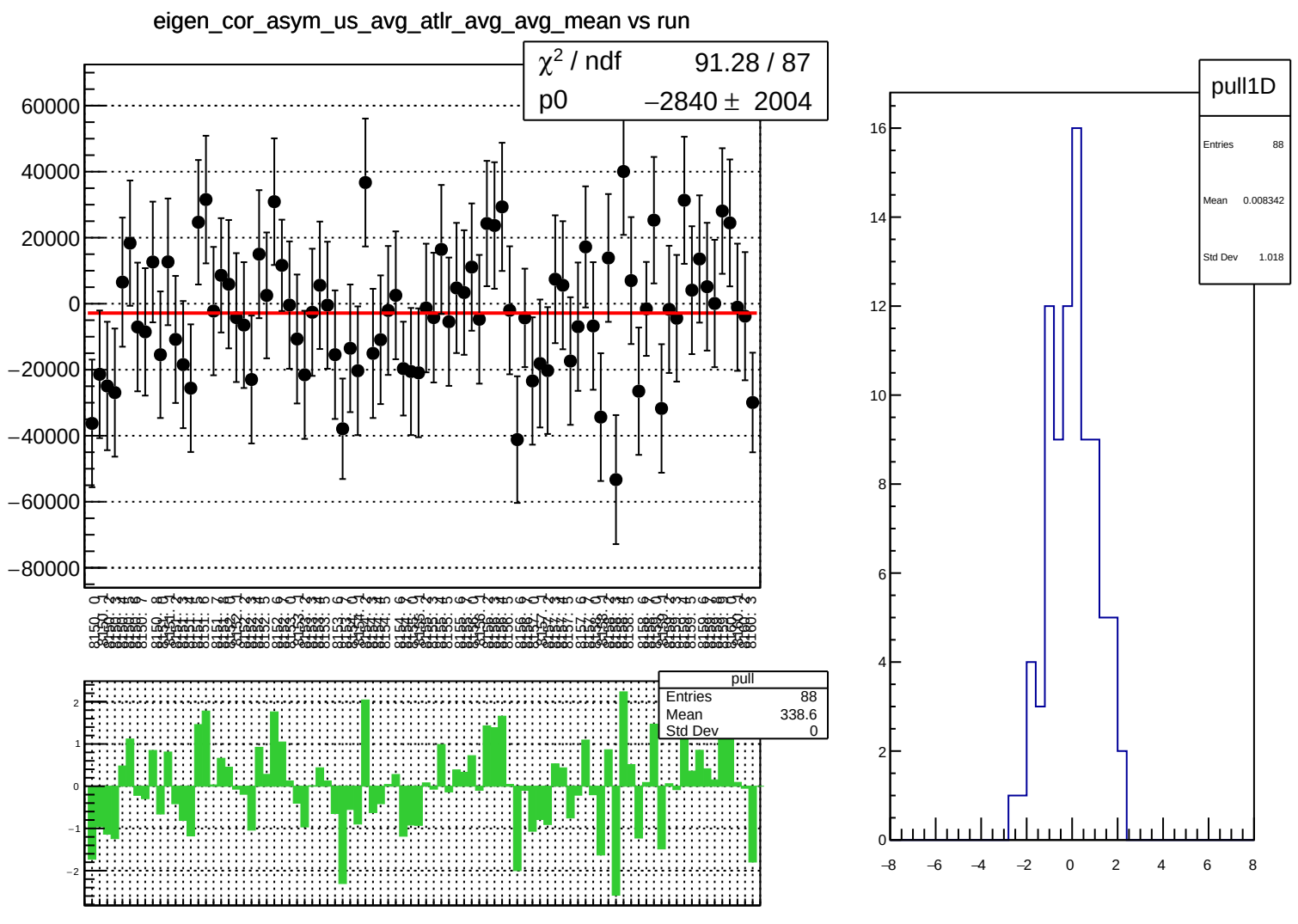

pull1D
Entries 88
Mean 0.008342
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

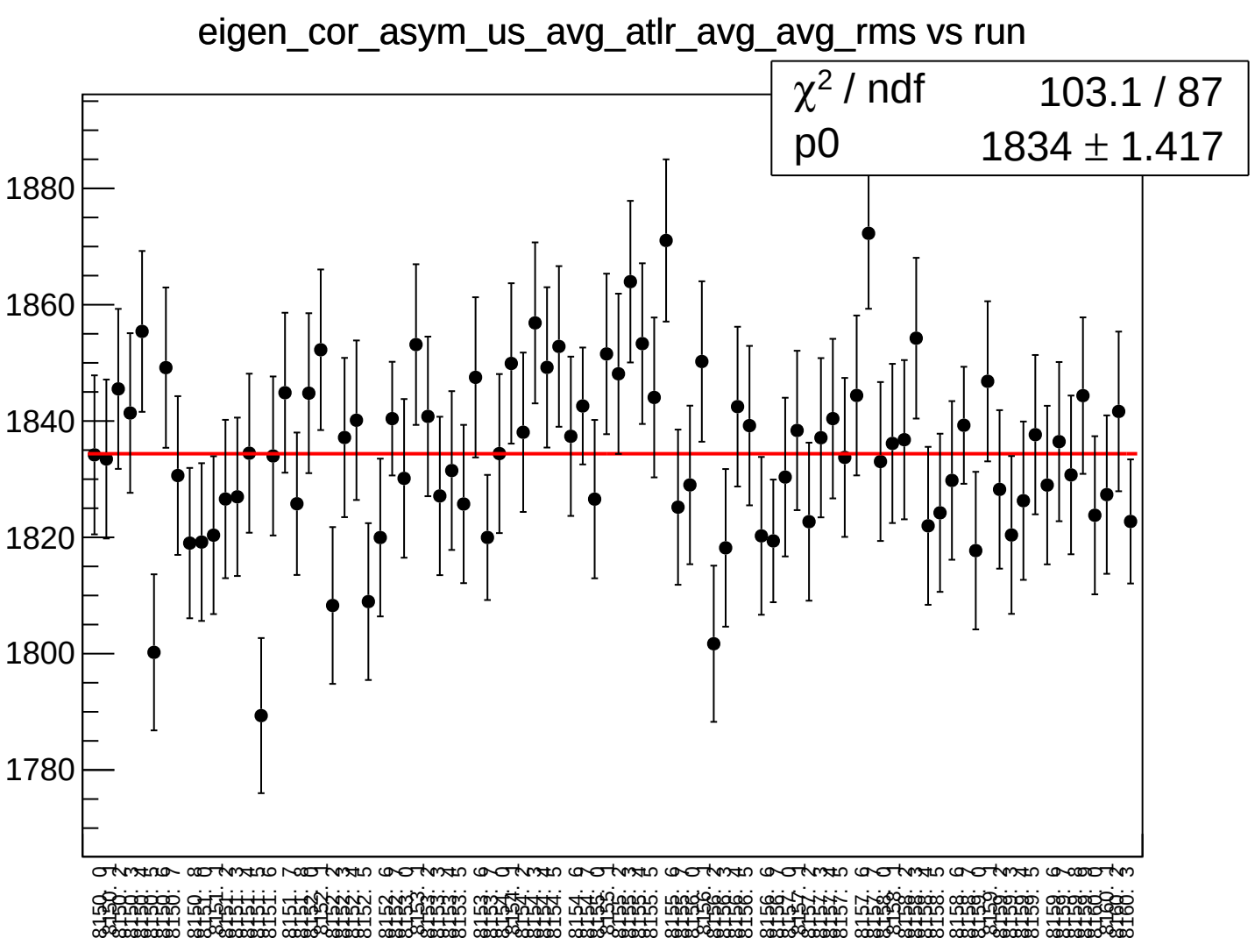

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 103.1 / 87
p0 1834 ± 1.417
1880
1860
1840
1820
1800
1780

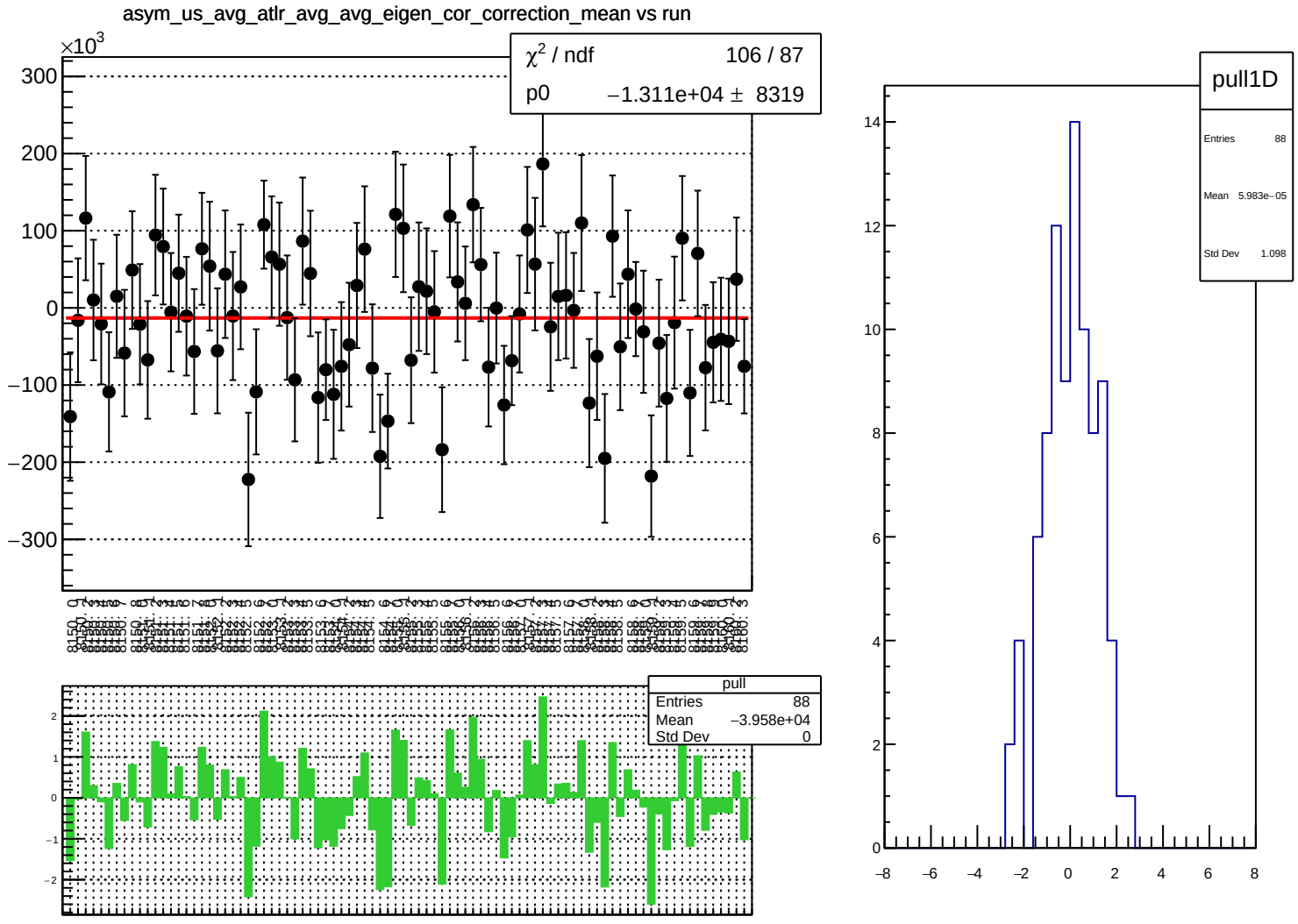

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 106 / 87
p0 −1.311e+04 ± 8319
pull
Entries 88
Mean −3.958e+04
Std Dev 0

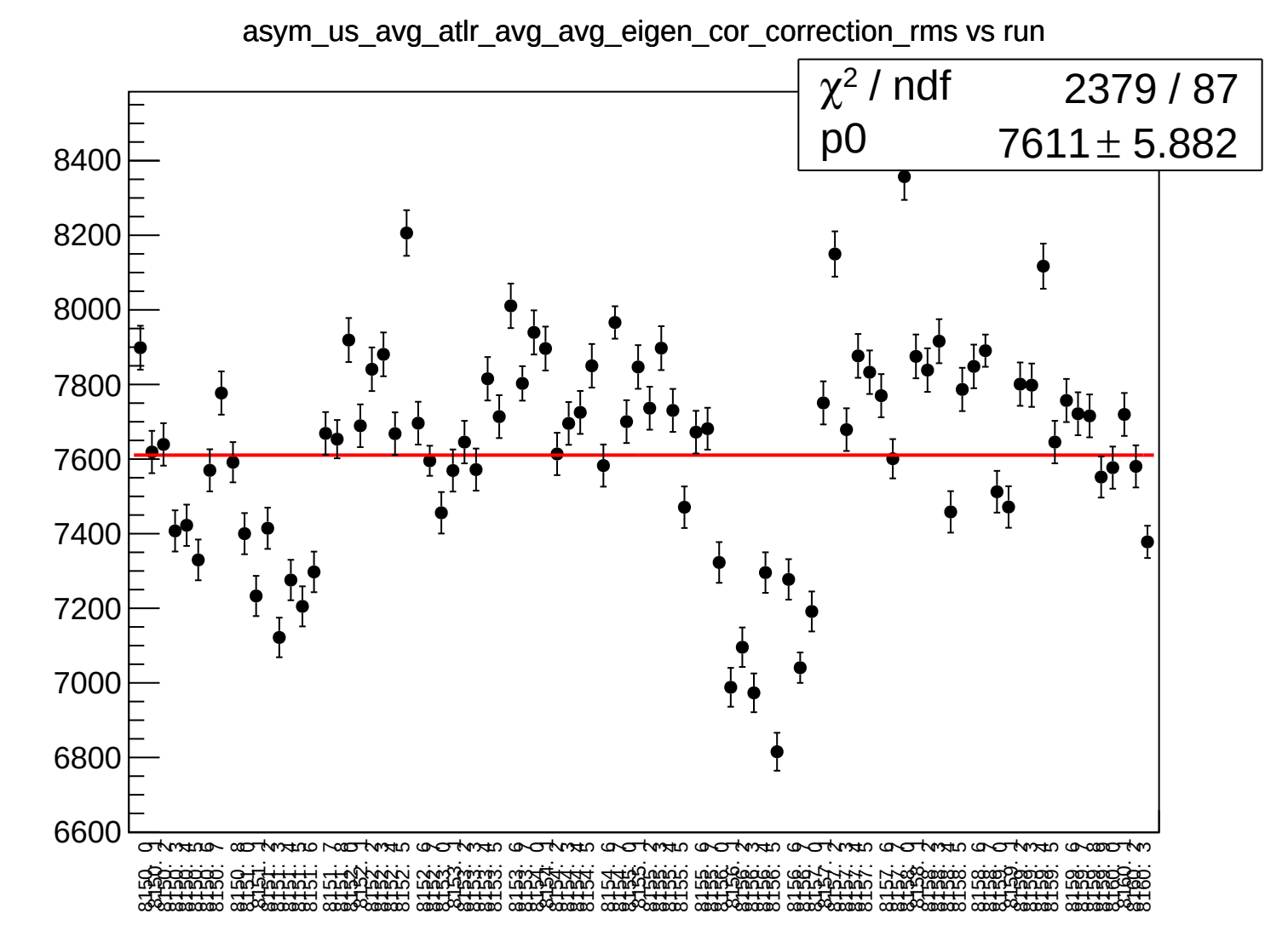

pull1D
Entries 88
Mean 5.983e−05
Std Dev 1.098

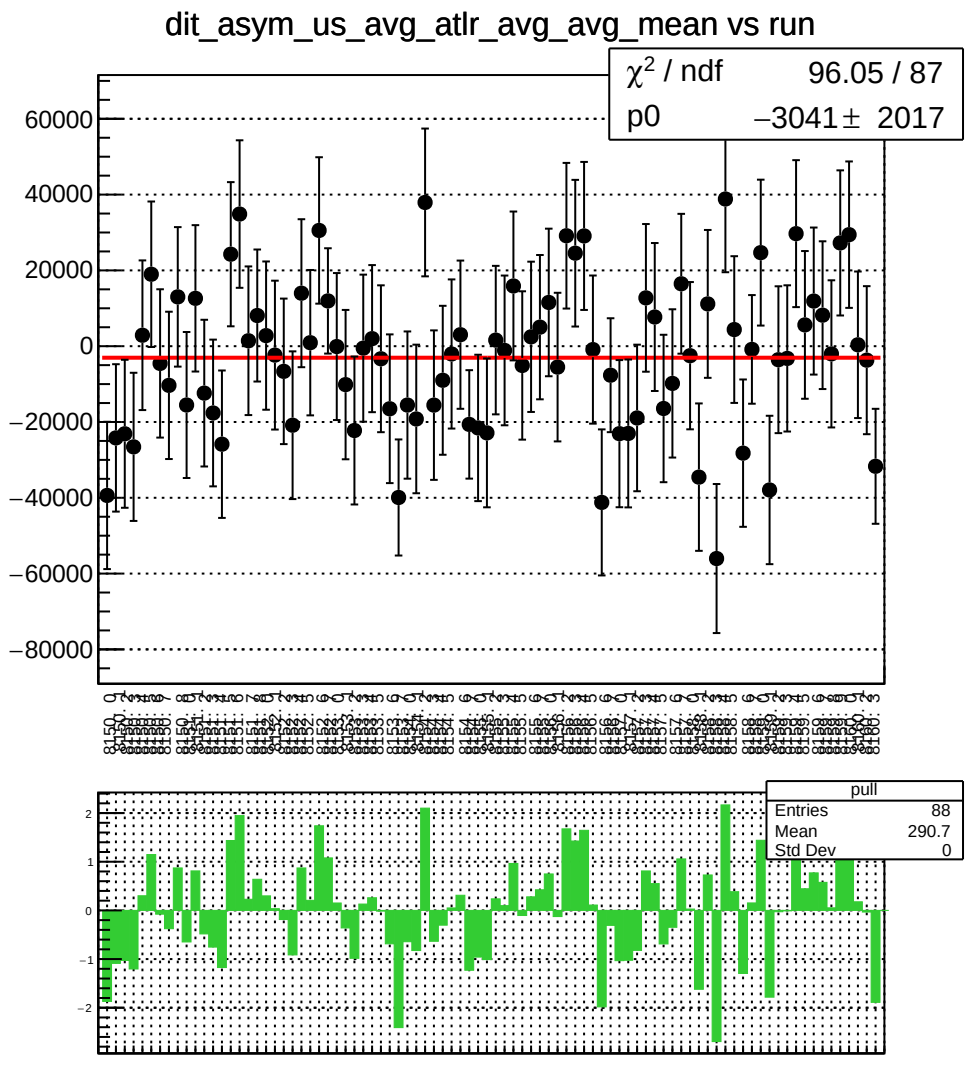

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 2379 / 87
p0 7611 ± 5.882
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

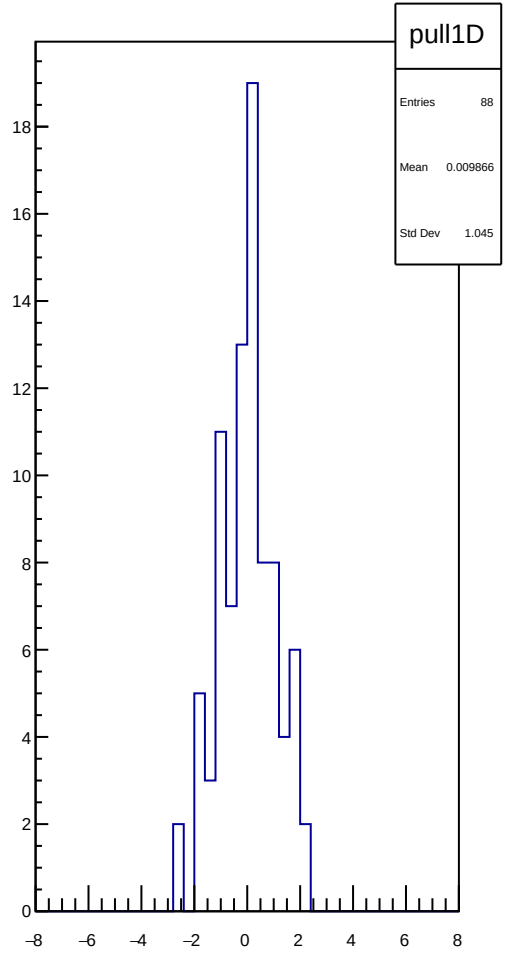

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 91.28 / 87
p0 −2840 ± 2004
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 338.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.008342
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

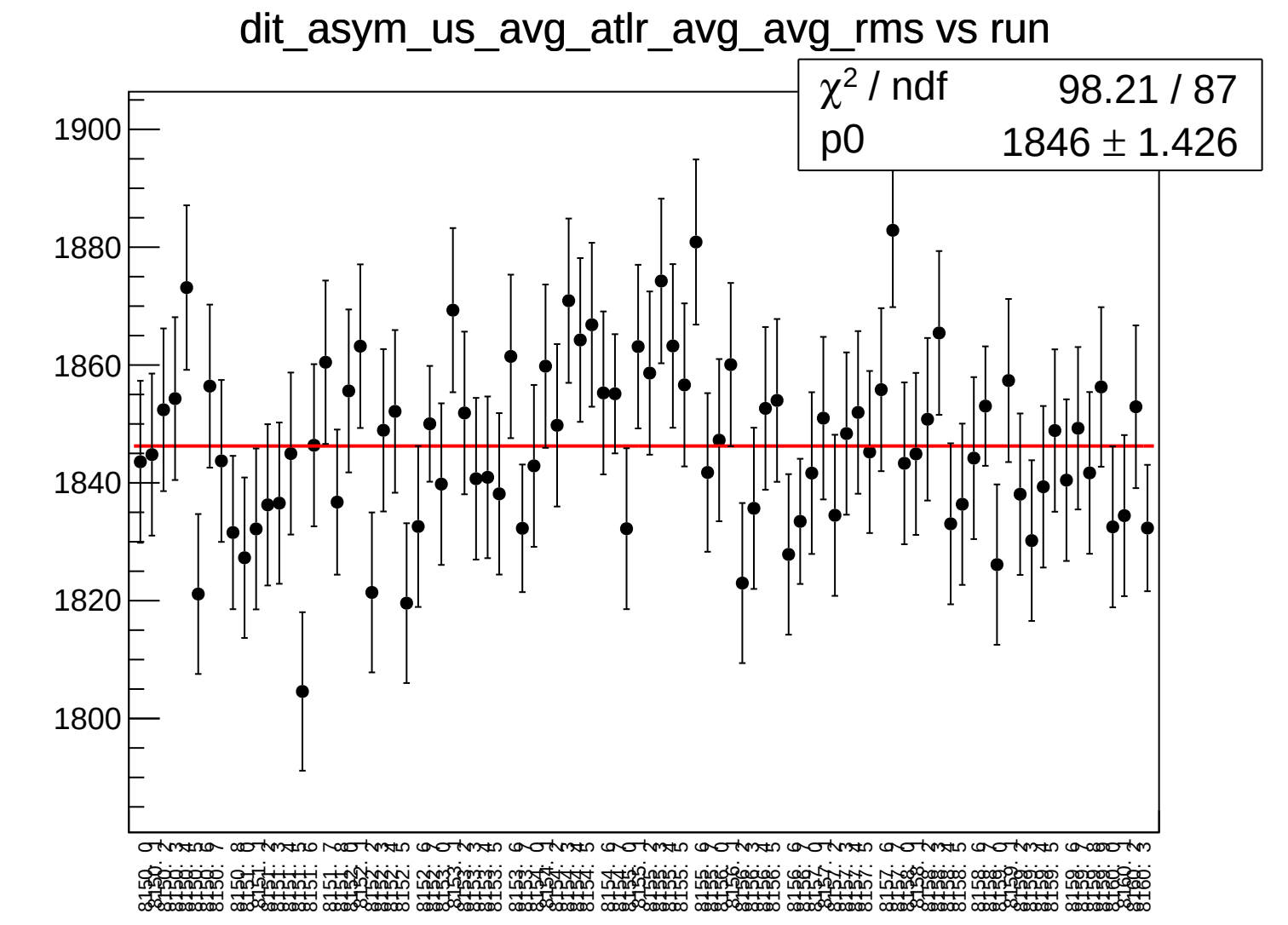

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 103.1 / 87
p0 1834 ± 1.417
1880
1860
1840
1820
1800
1780

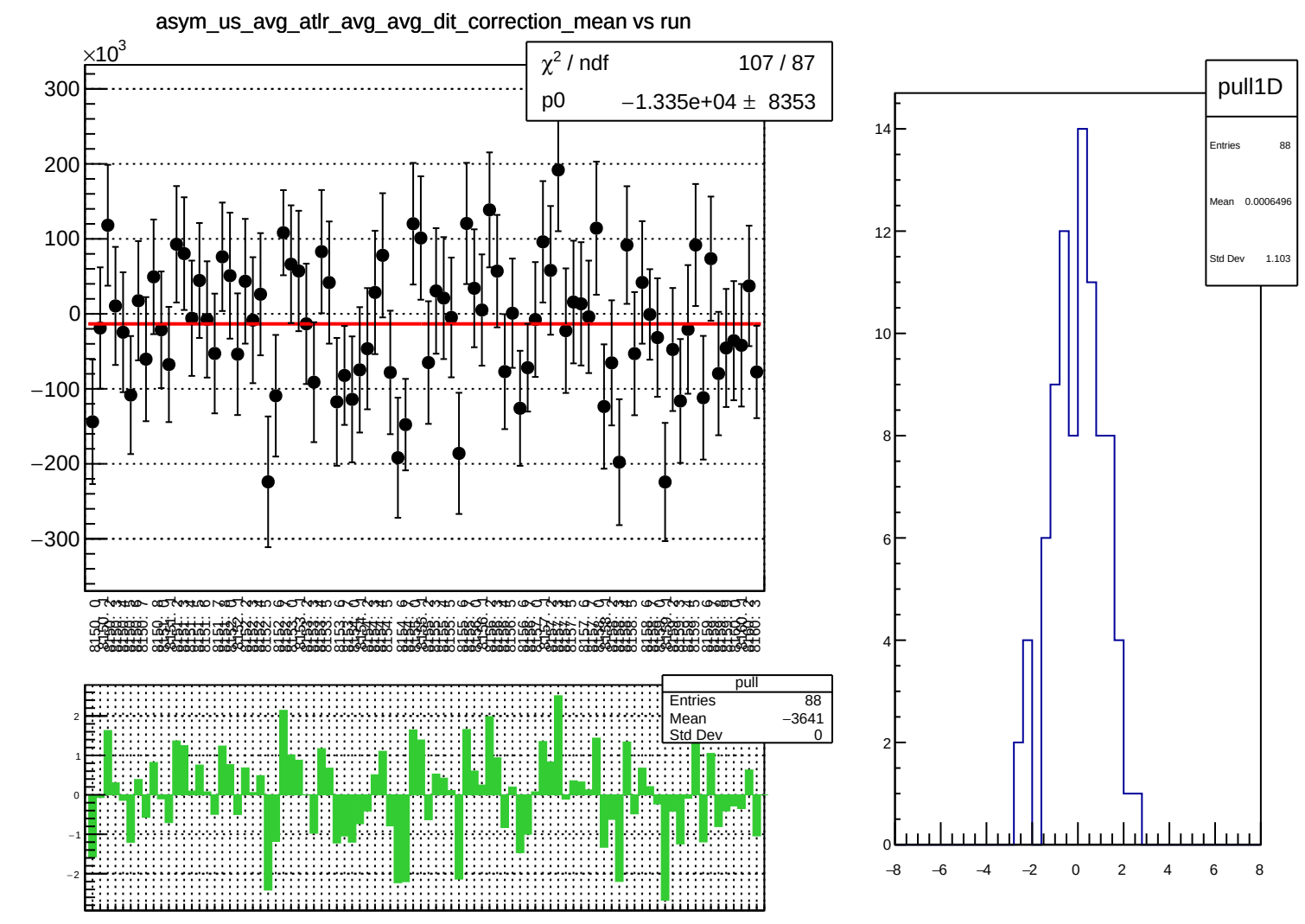

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106 / 87
p0 −1.311e+04 ± 8319
pull
Entries 88
Mean −3.958e+04
Std Dev 0
pull1D
Entries 88
Mean 5.983e−05
Std Dev 1.098

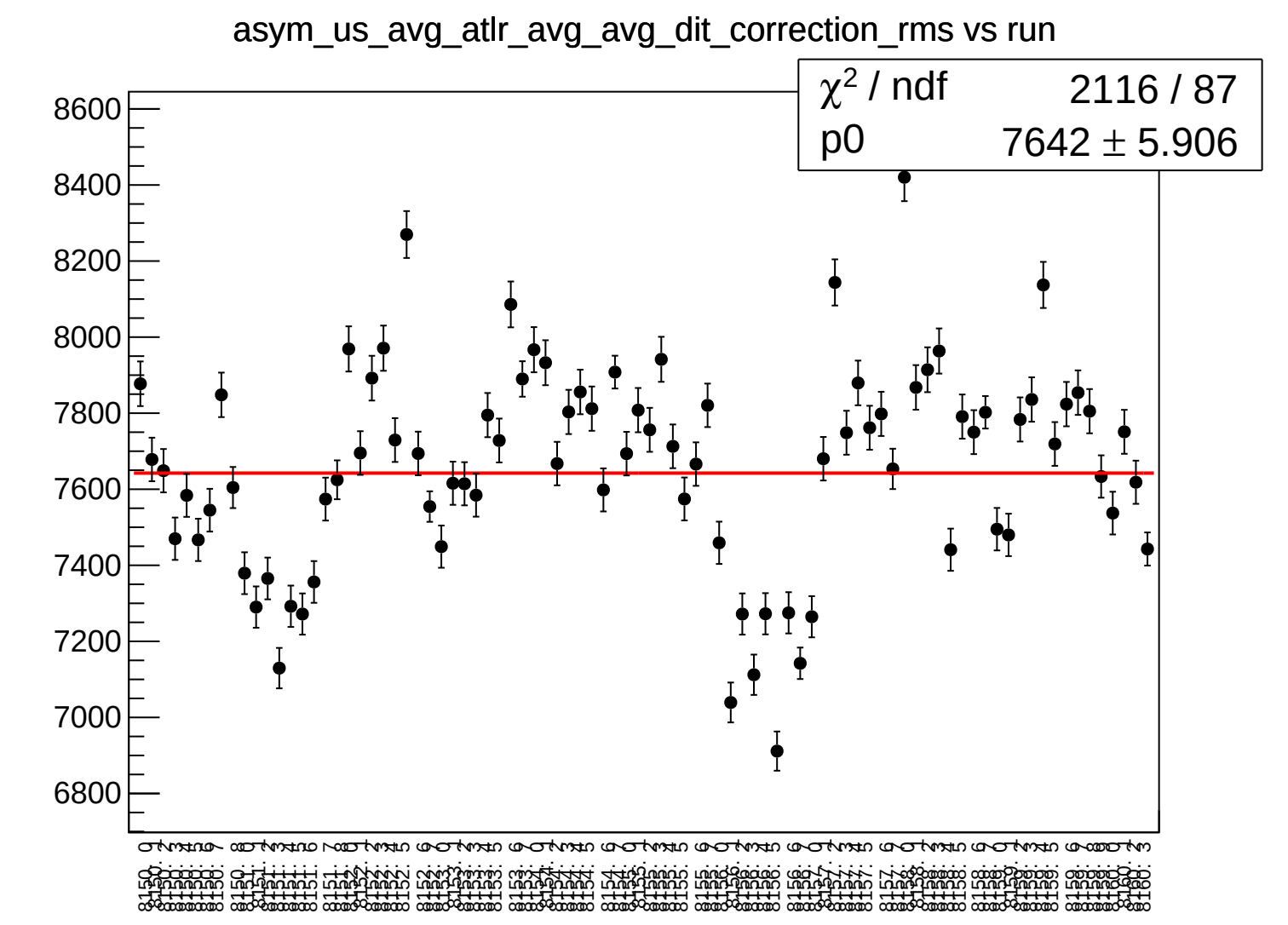

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2379 / 87
p0 7611 ± 5.882
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

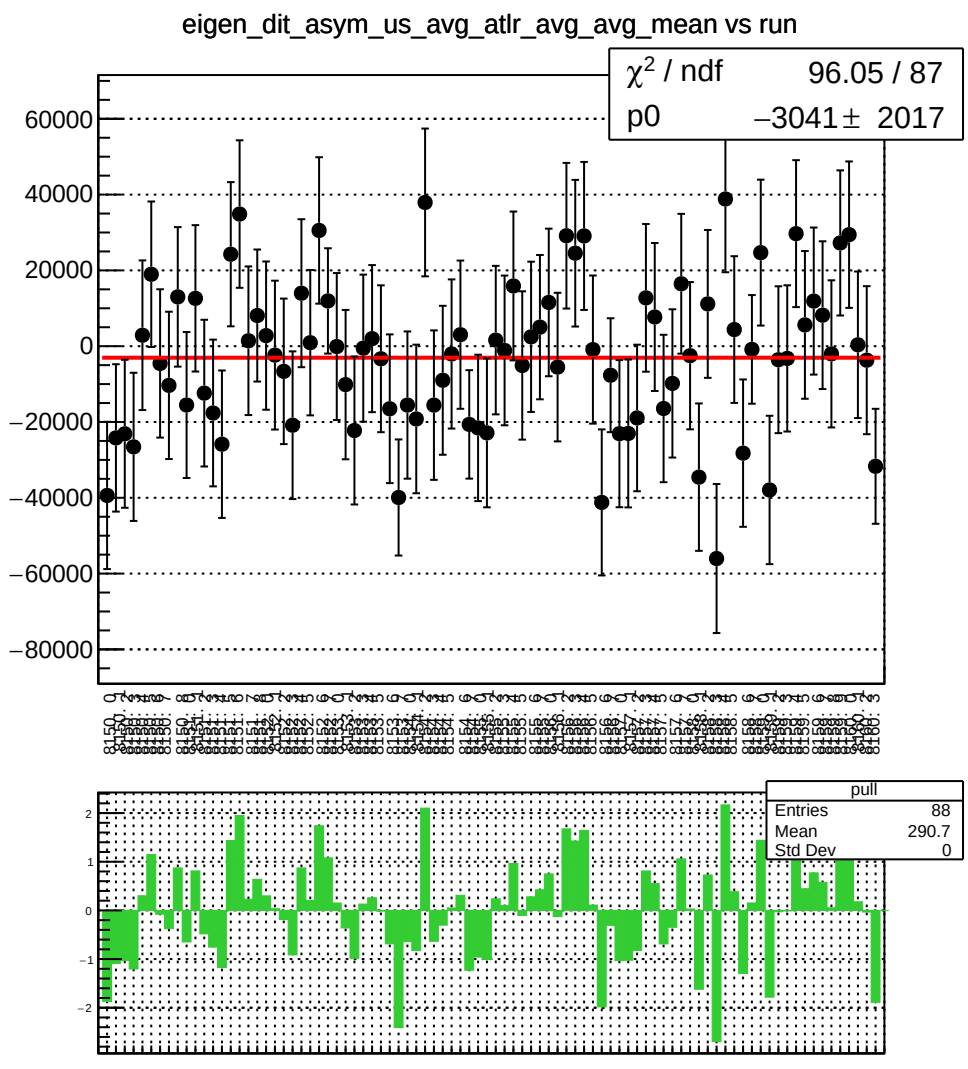

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 96.05 / 87
p0 −3041 ± 2017
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 290.7
Std Dev 0
2
1
0
−1
−2

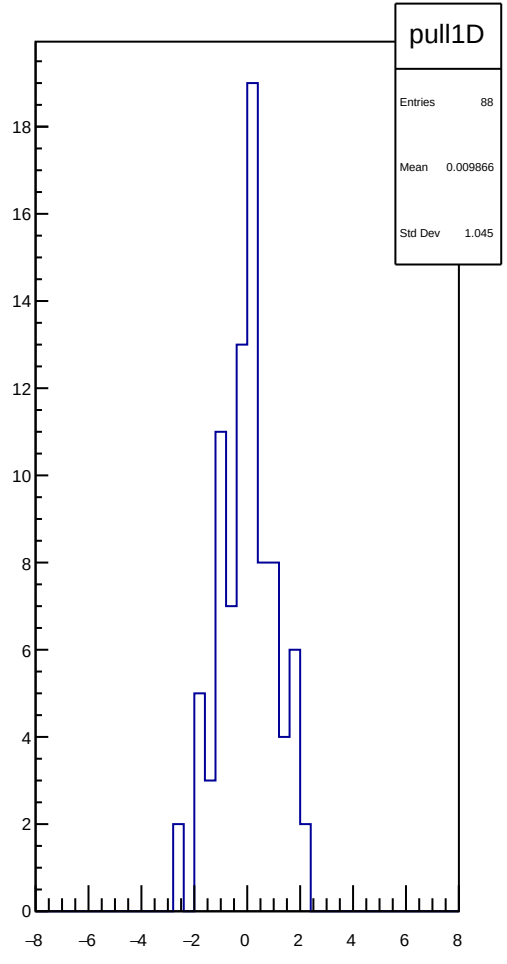

pull1D
Entries 88
Mean 0.009866
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

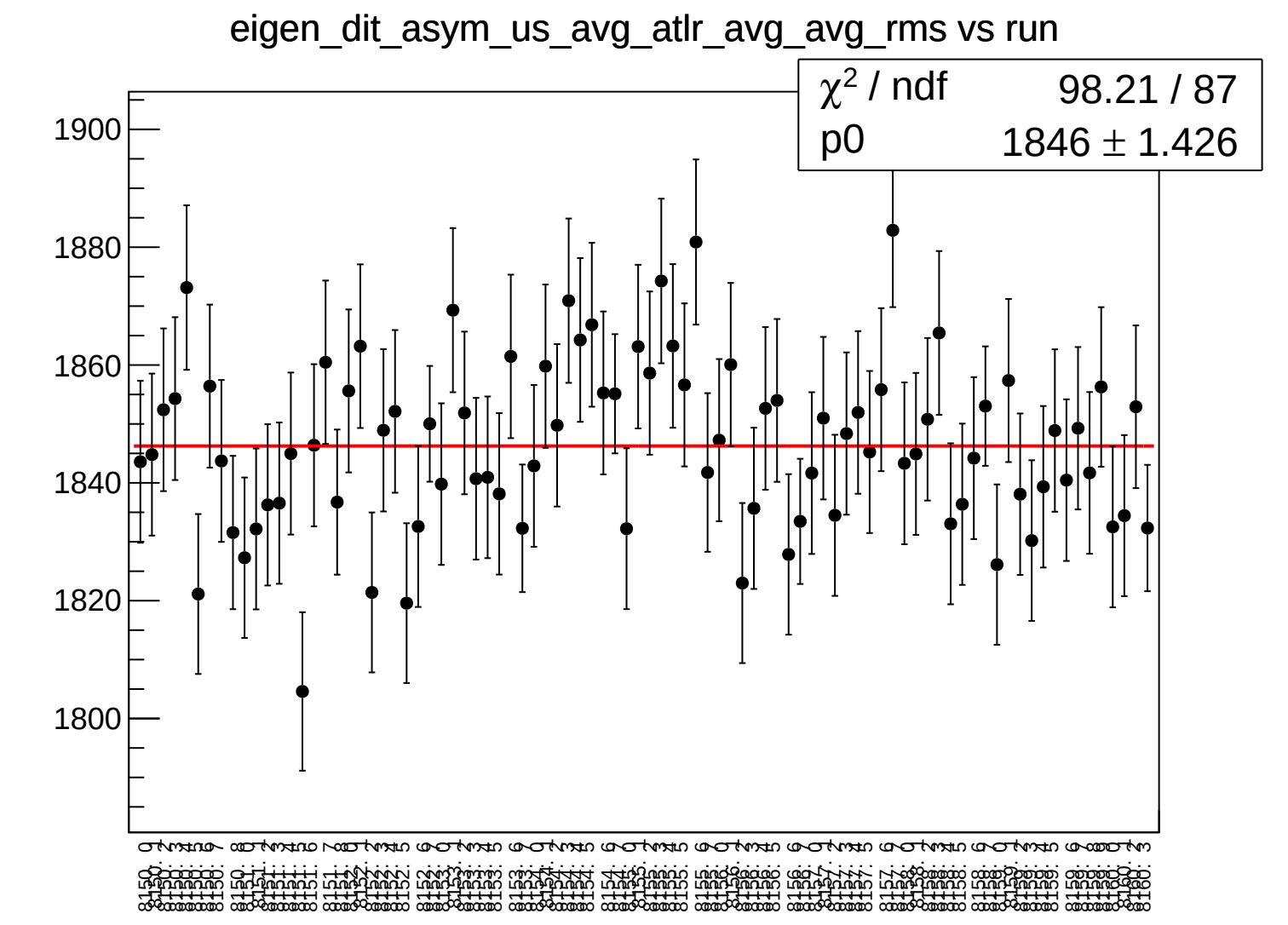

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 98.21 / 87
p0 1846 ± 1.426
1900
1880
1860
1840
1820
1800

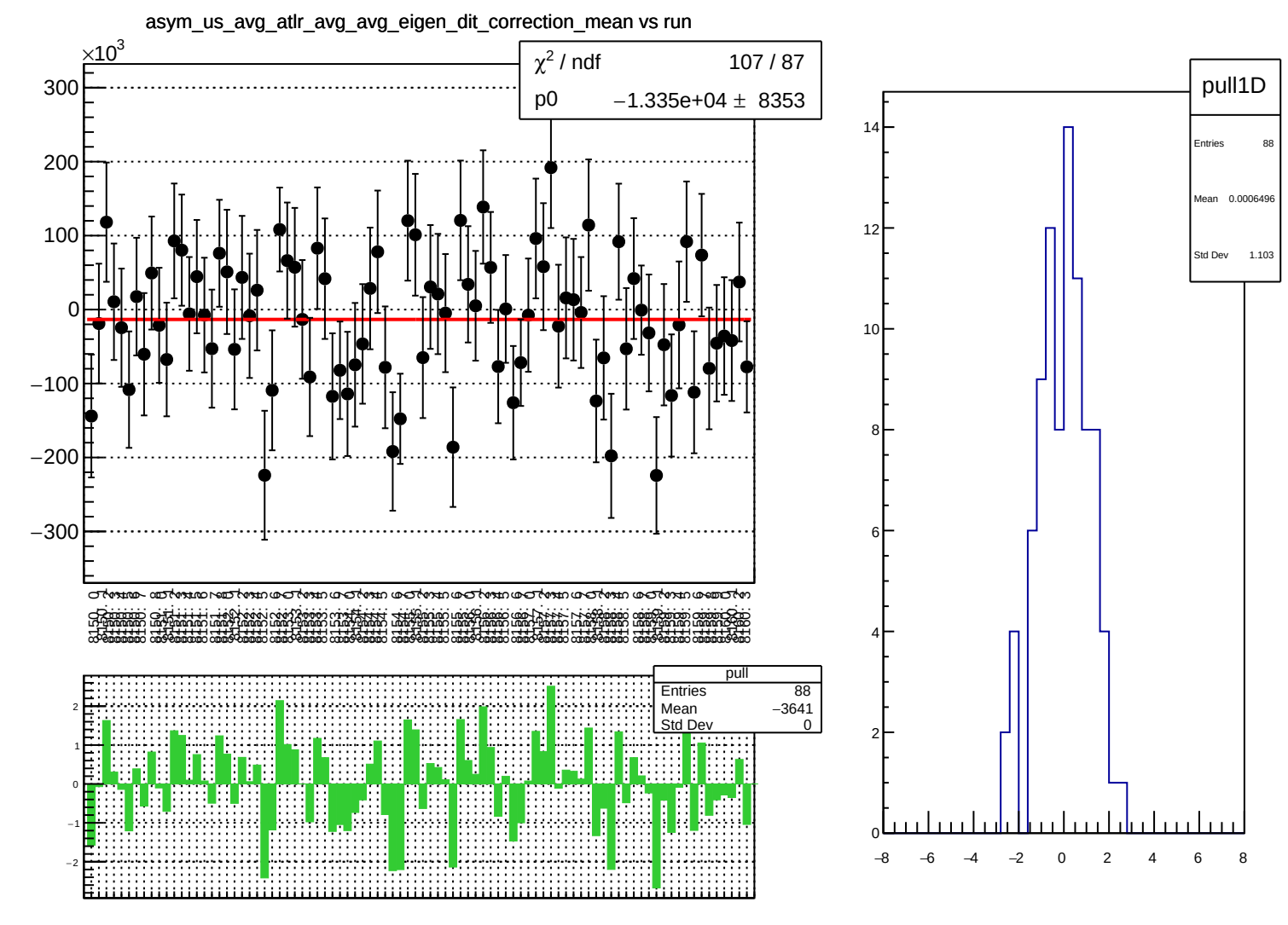

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 87
p0 −1.335e+04 ± 8353
pull
Entries 88
Mean −3641
Std Dev 0
pull1D
Entries 88
Mean 0.0006496
Std Dev 1.103

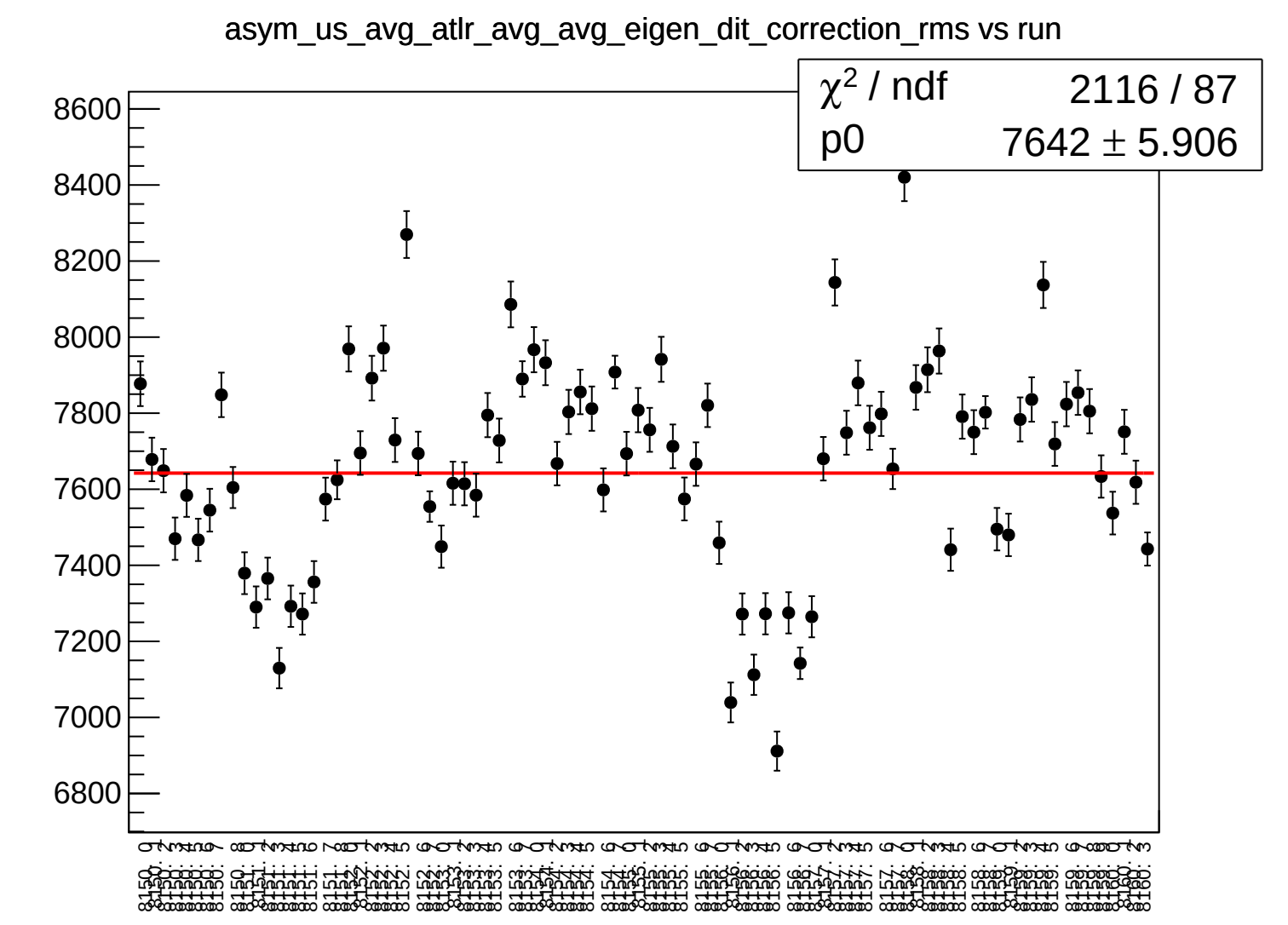

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 2116 / 87
p0 7642 ± 5.906
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

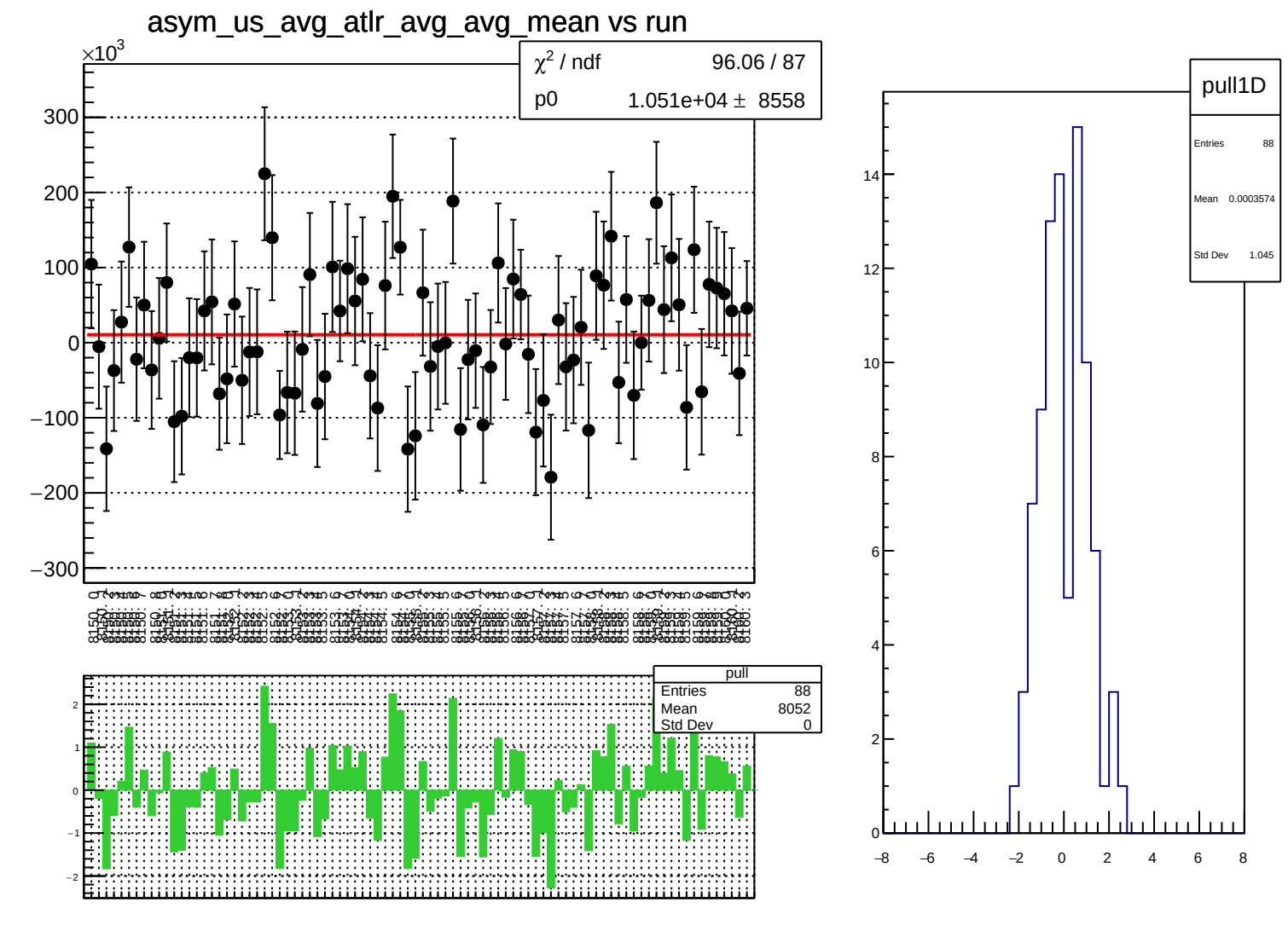

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 96.05 / 87
p0 −3041 ± 2017
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 290.7
Std Dev 0
2
1
0
−1
−2

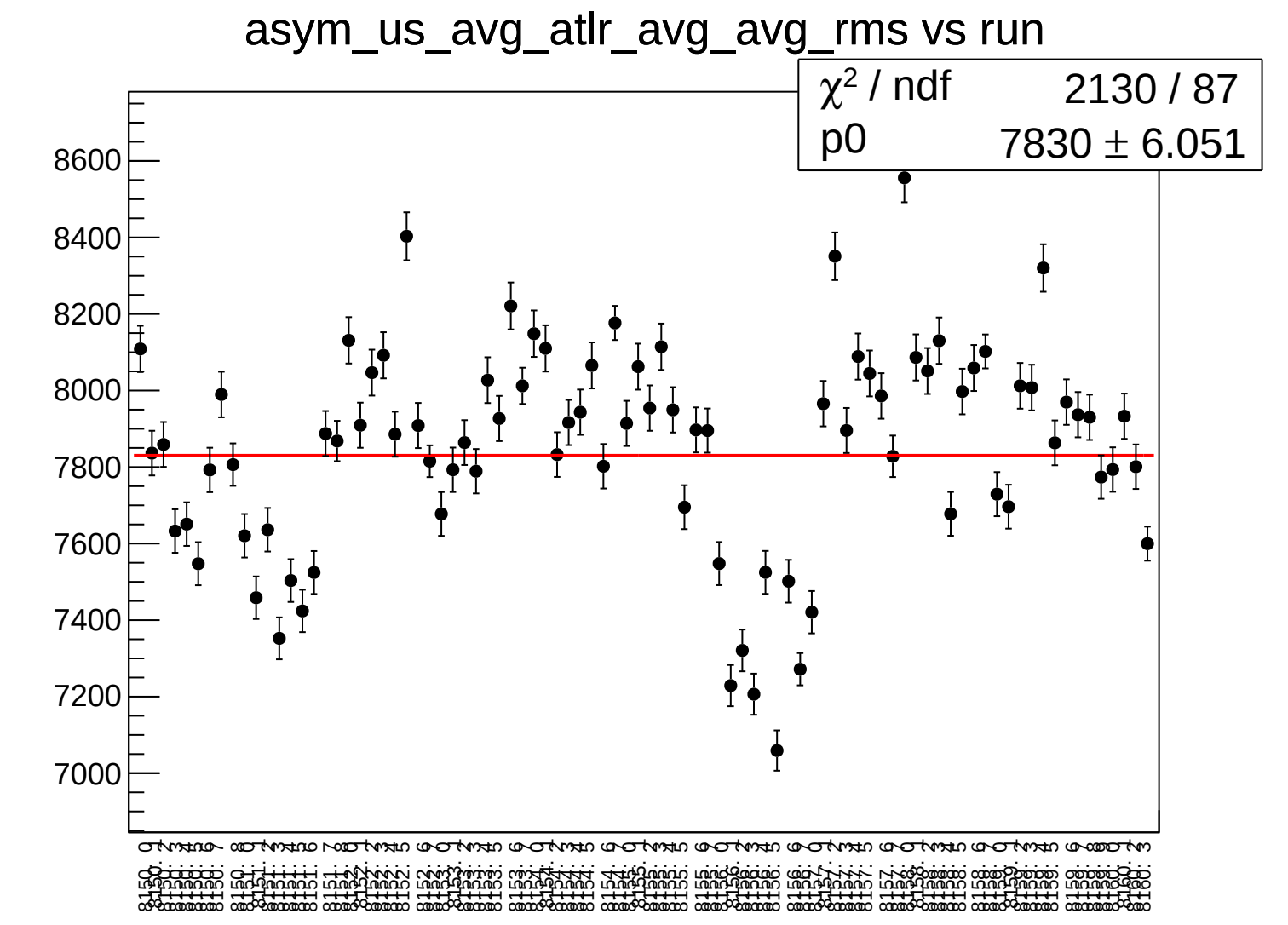

pull1D
Entries 88
Mean 0.009866
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

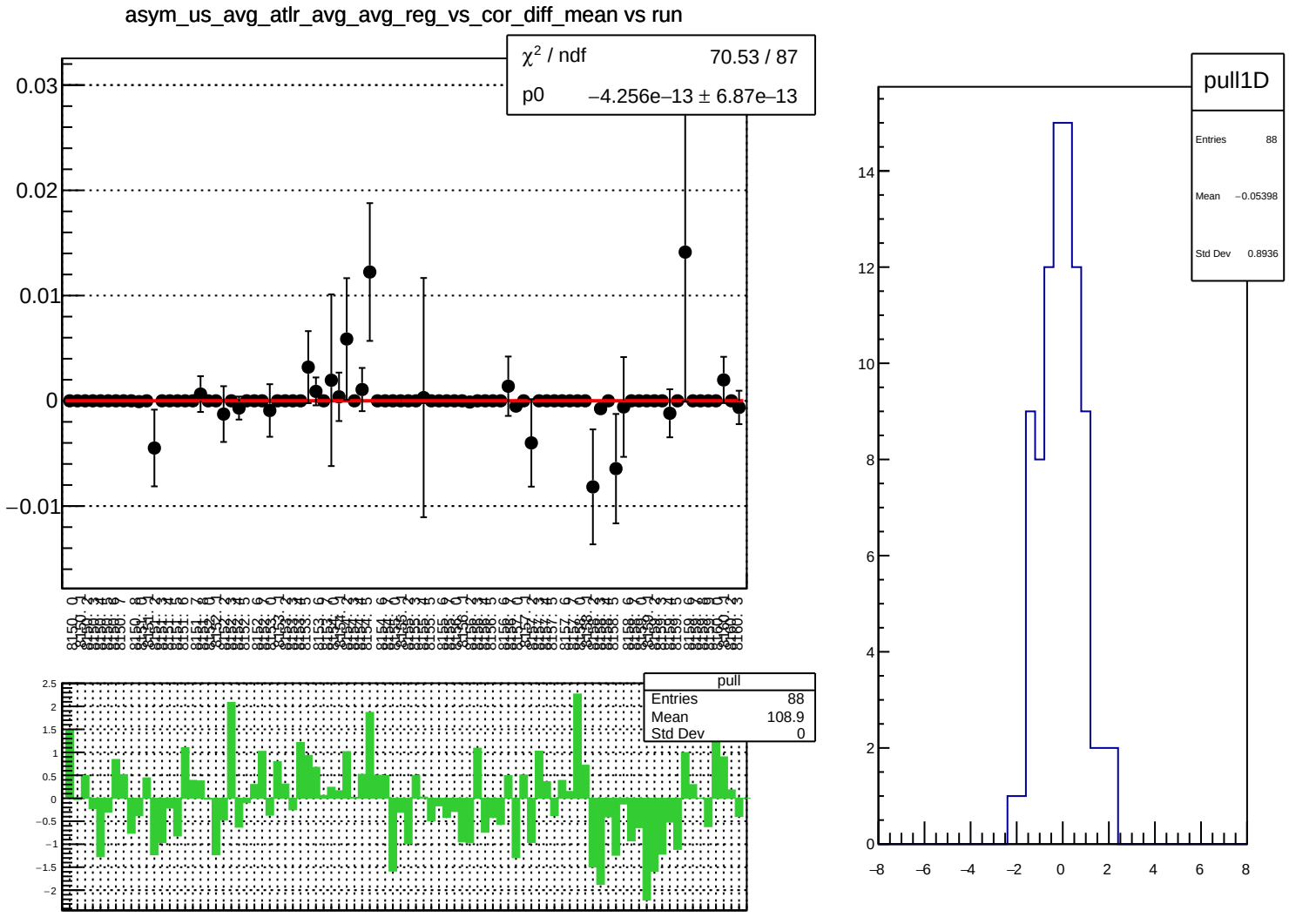

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 98.21 / 87
p0 1846 ± 1.426
1900
1880
1860
1840
1820
1800

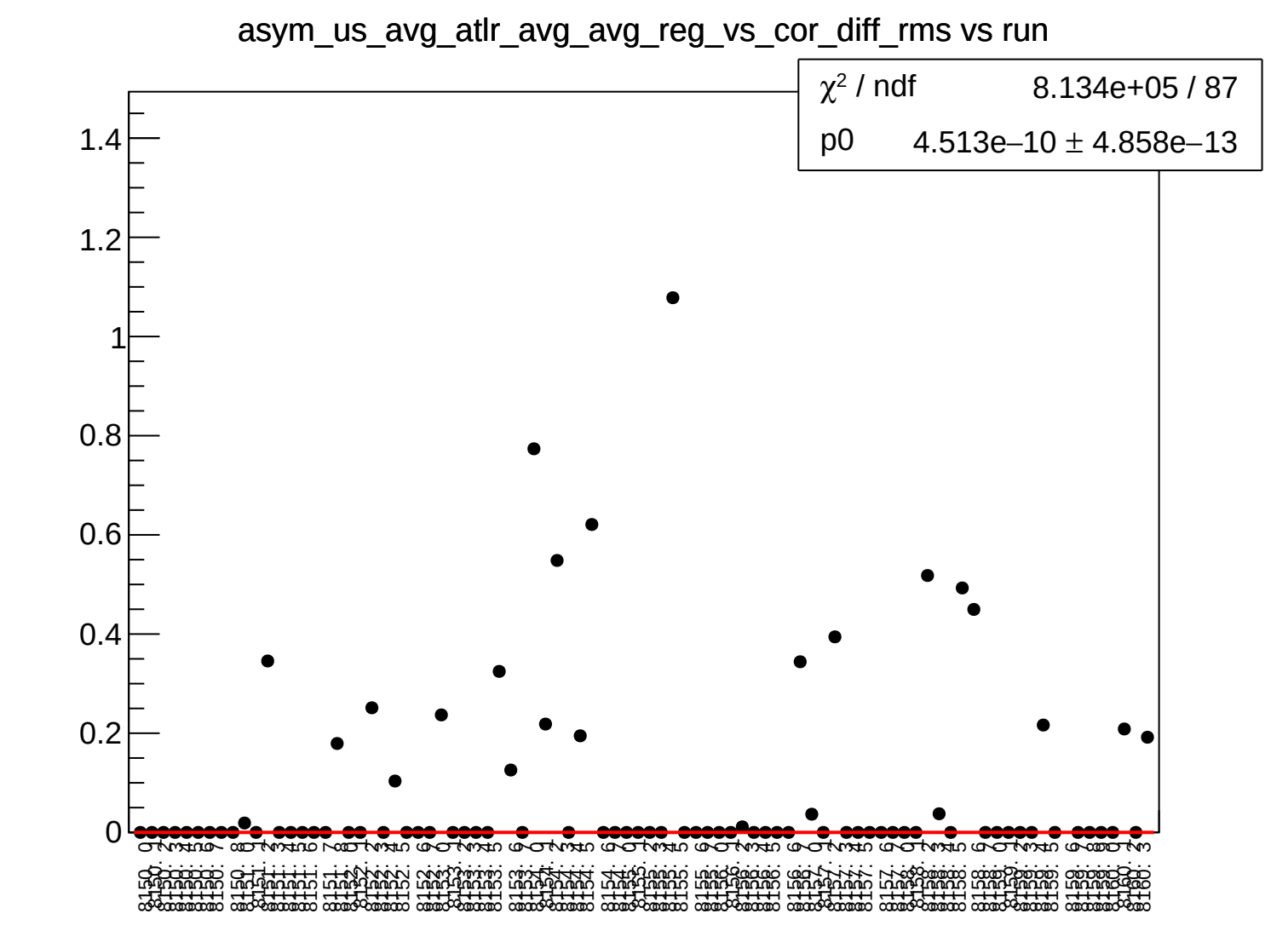

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 87
p0 −1.335e+04 ± 8353
pull
Entries 88
Mean −3641
Std Dev 0
pull1D
Entries 88
Mean 0.0006496
Std Dev 1.103

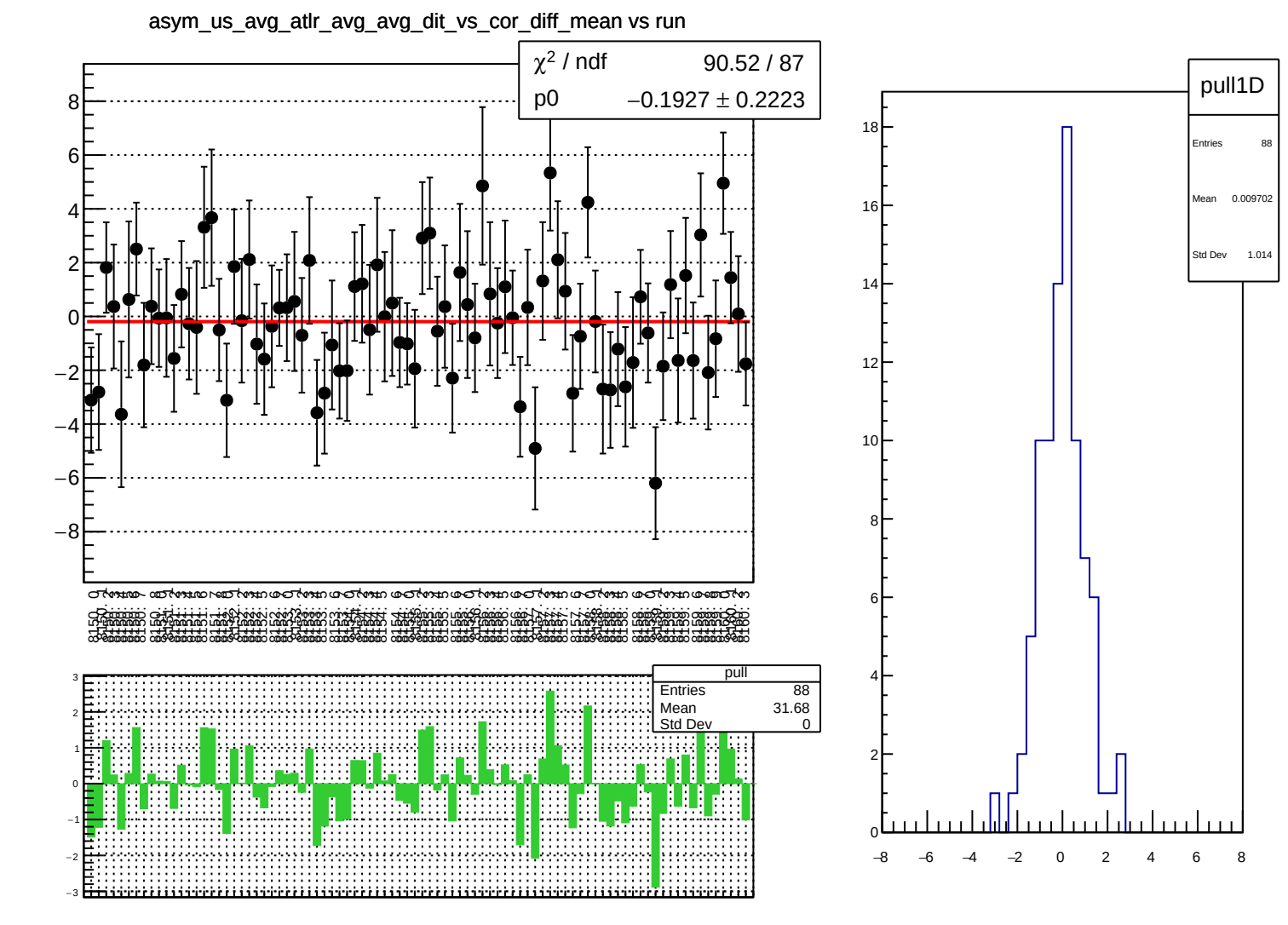

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2116 / 87
p0 7642 ± 5.906
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

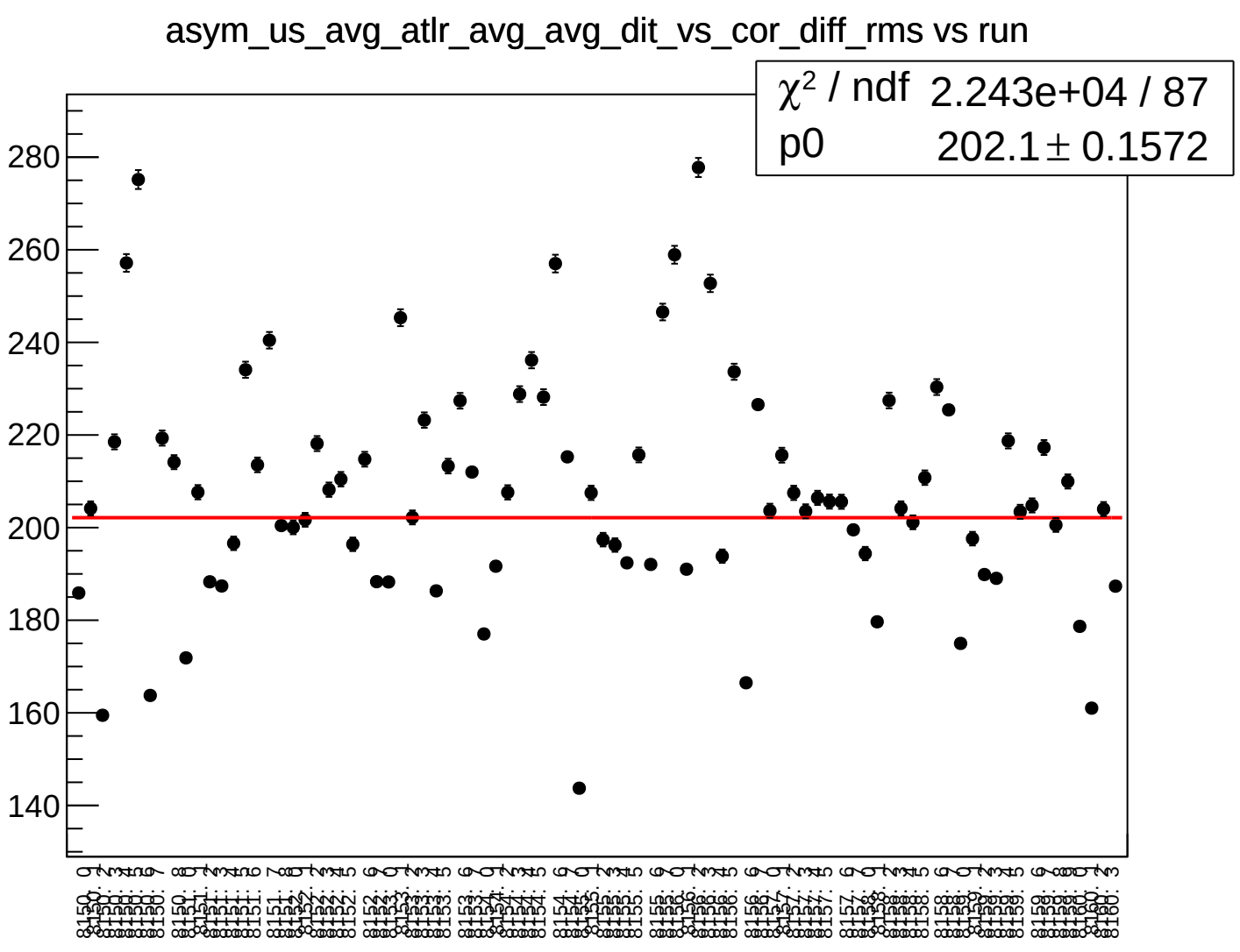

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 96.06 / 87
p0 1.051e+04 ± 8558
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 8052
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0003574
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

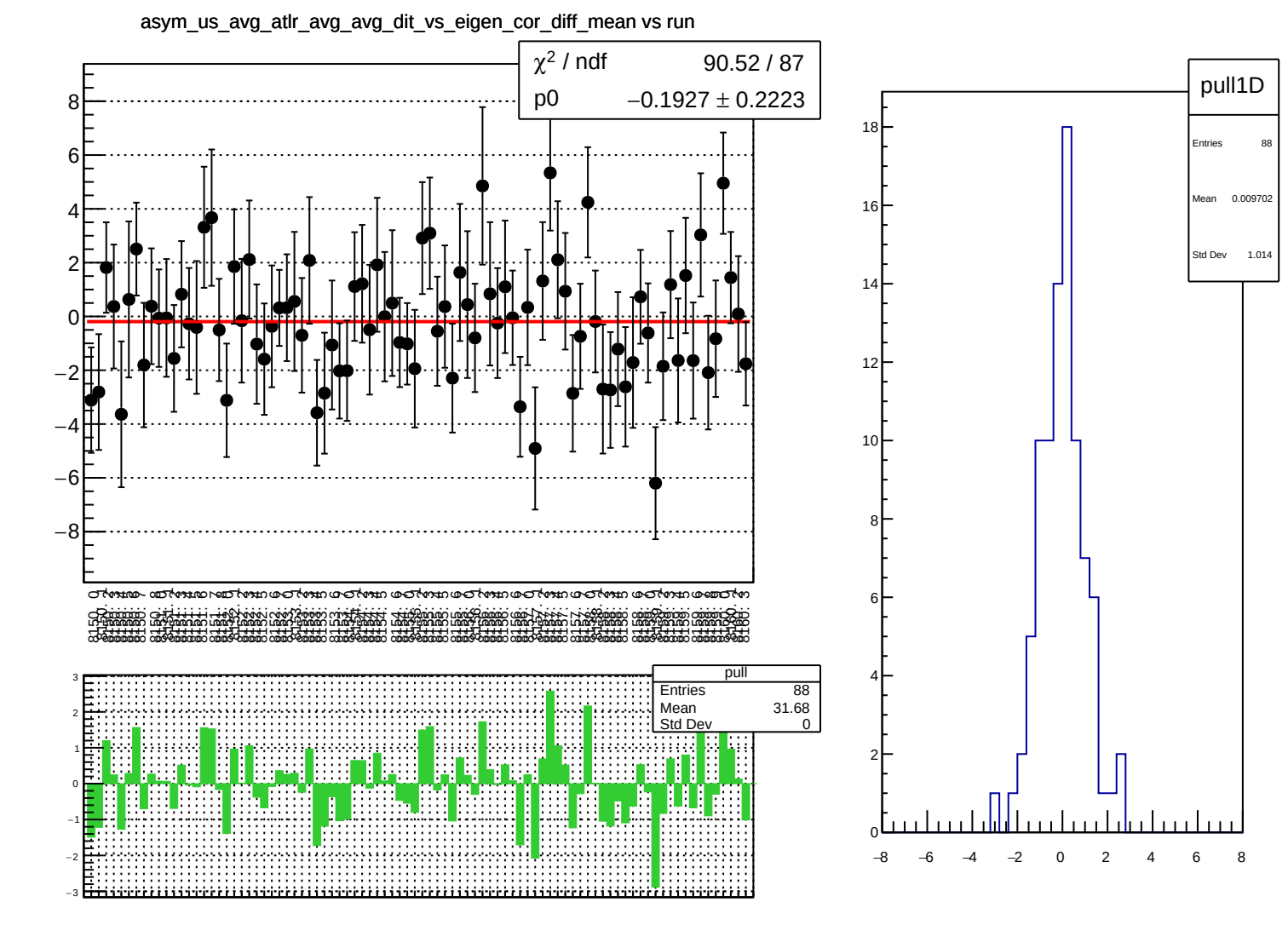

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 2130 / 87
p0 7830 ± 6.051
8600
8400
8200
8000
7800
7600
7400
7200
7000

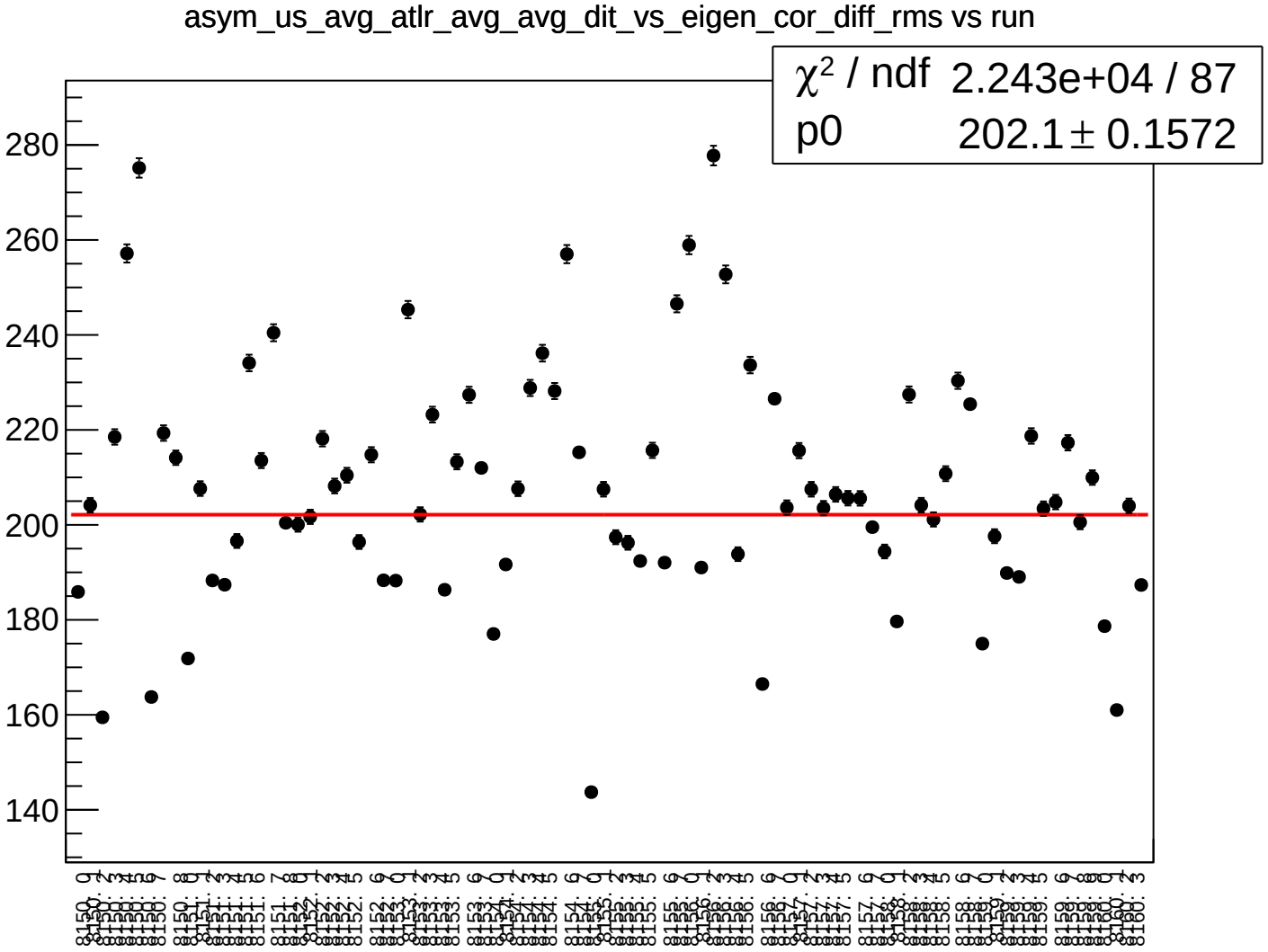

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 70.53 / 87
p0 −4.256e−13 ± 6.87e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 88
Mean 108.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.05398
Std Dev 0.8936
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

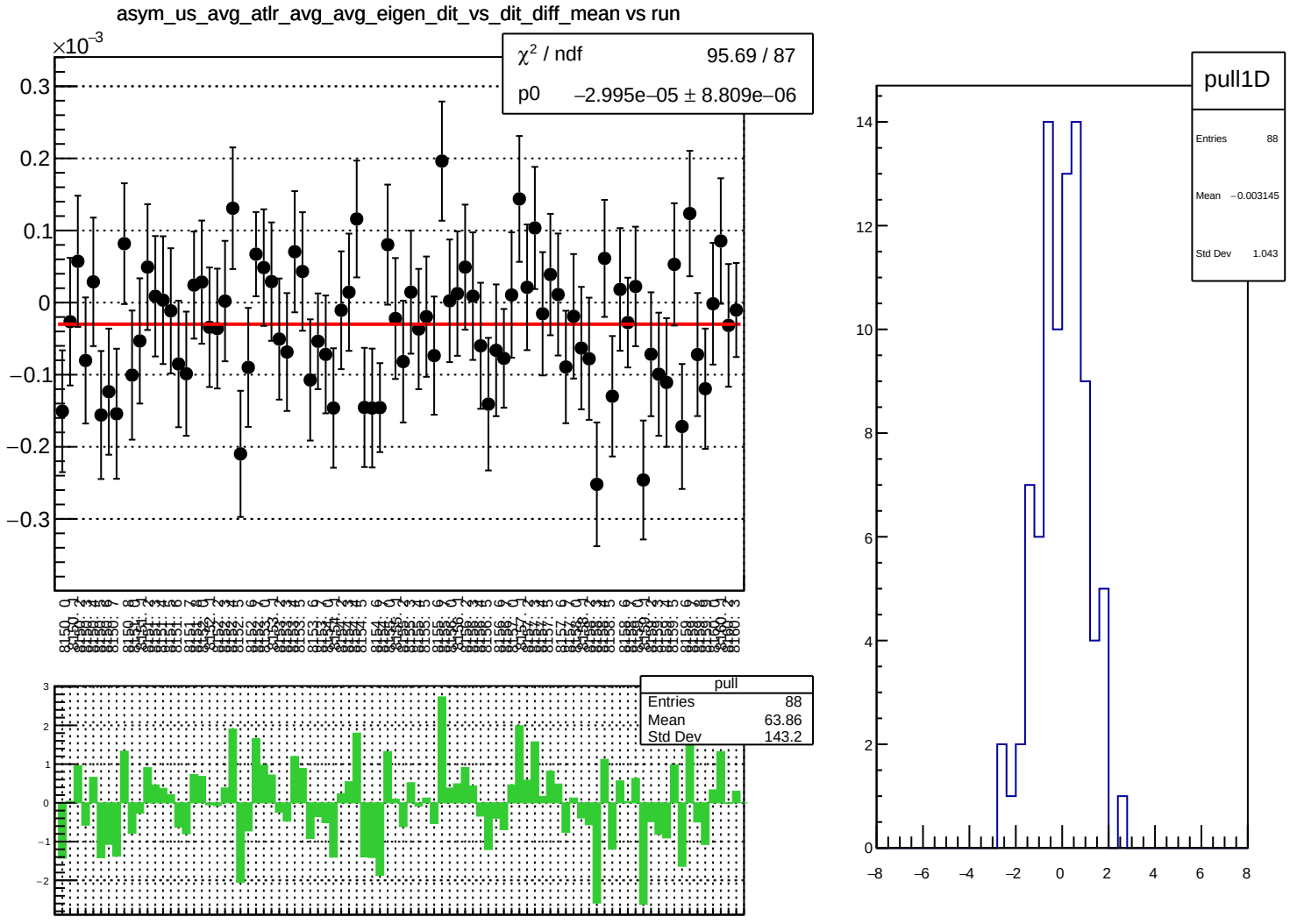

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.134e+05 / 87
p0 4.513e−10 ± 4.858e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

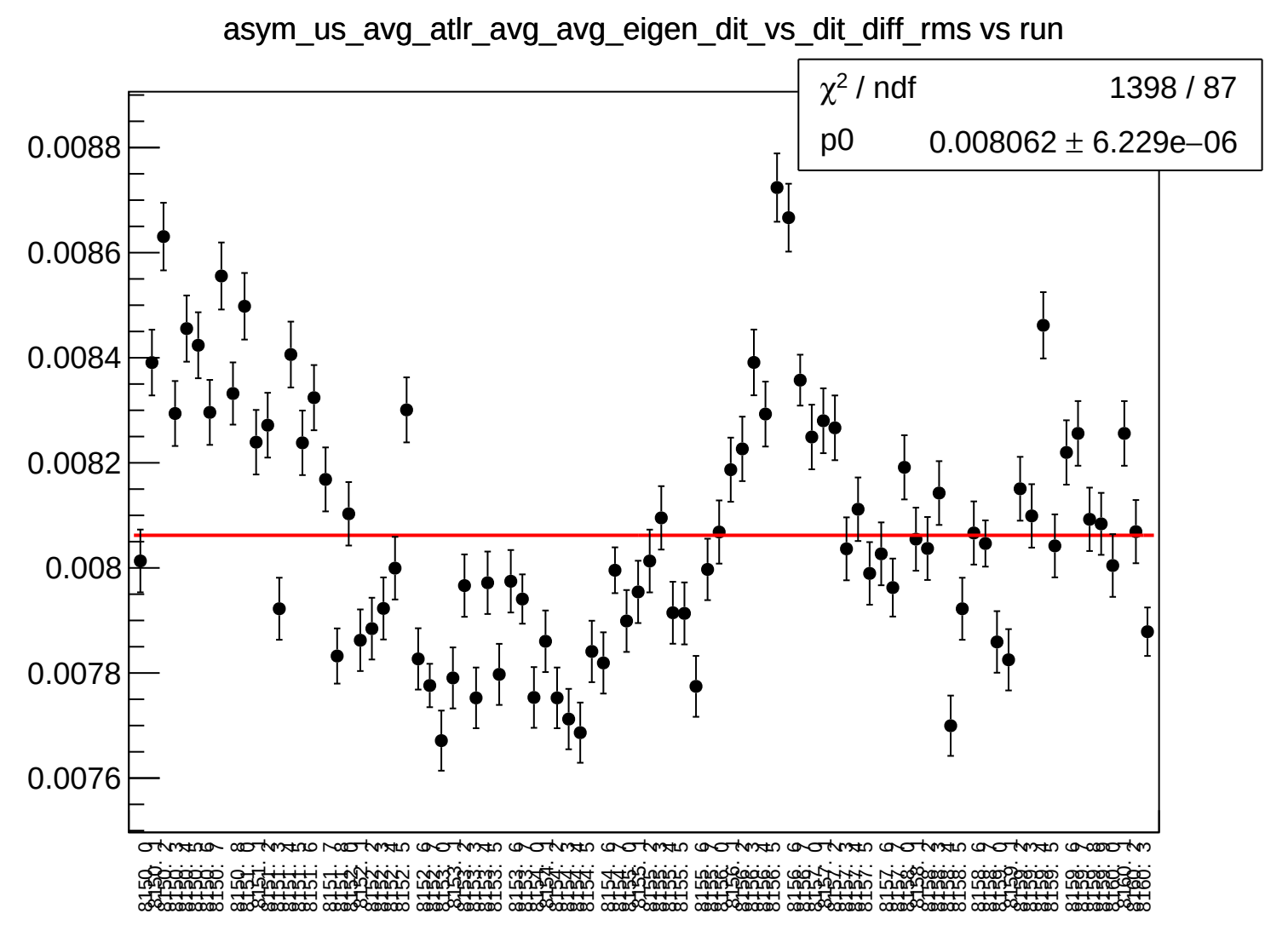

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.52 / 87
p0 −0.1927 ± 0.2223
pull
Entries 88
Mean 31.68
Std Dev 0
pull1D
Entries 88
Mean 0.009702
Std Dev 1.014

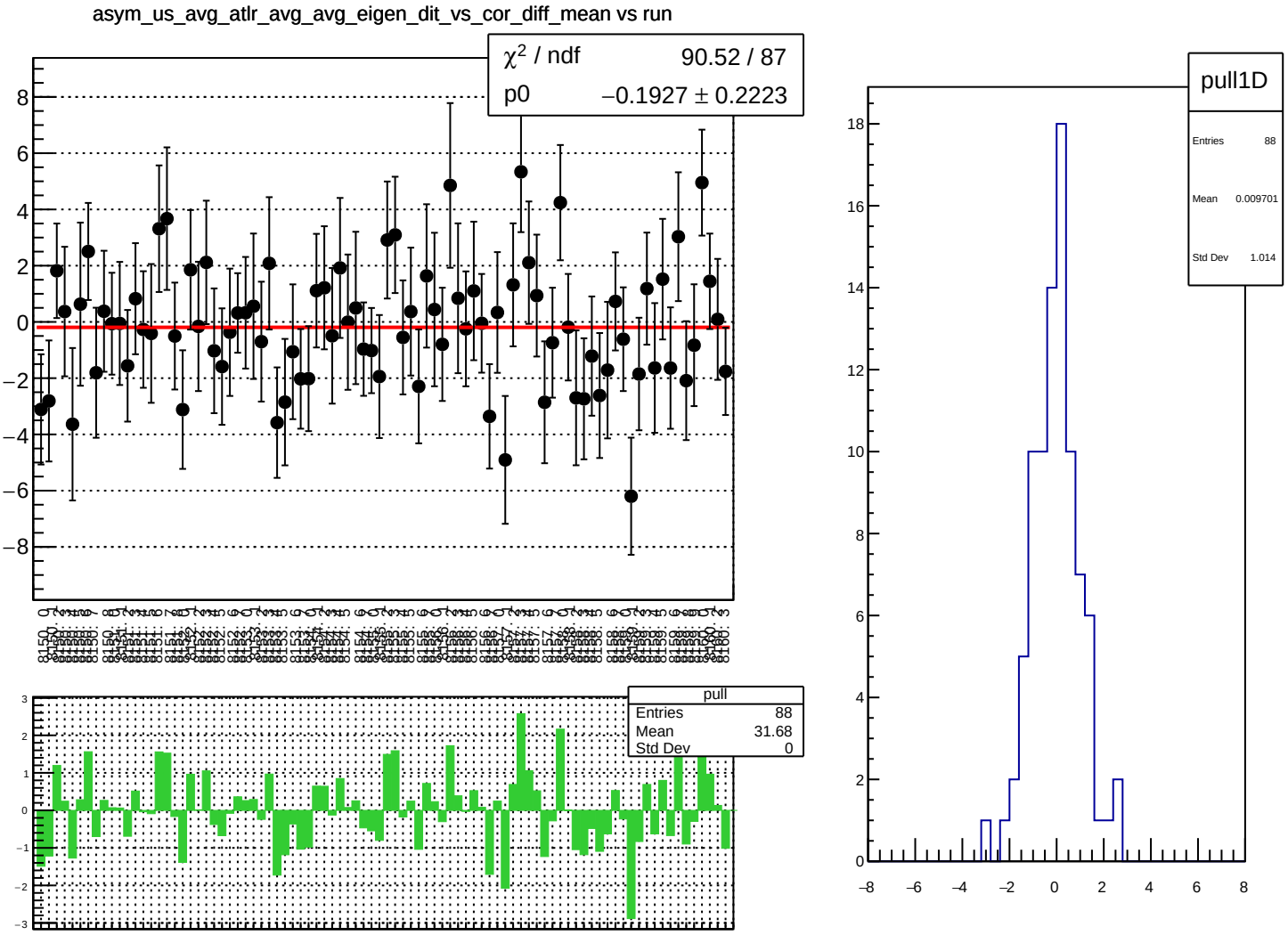

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.243e+04 / 87
p0 202.1 ± 0.1572
280
260
240
220
200
180
160
140

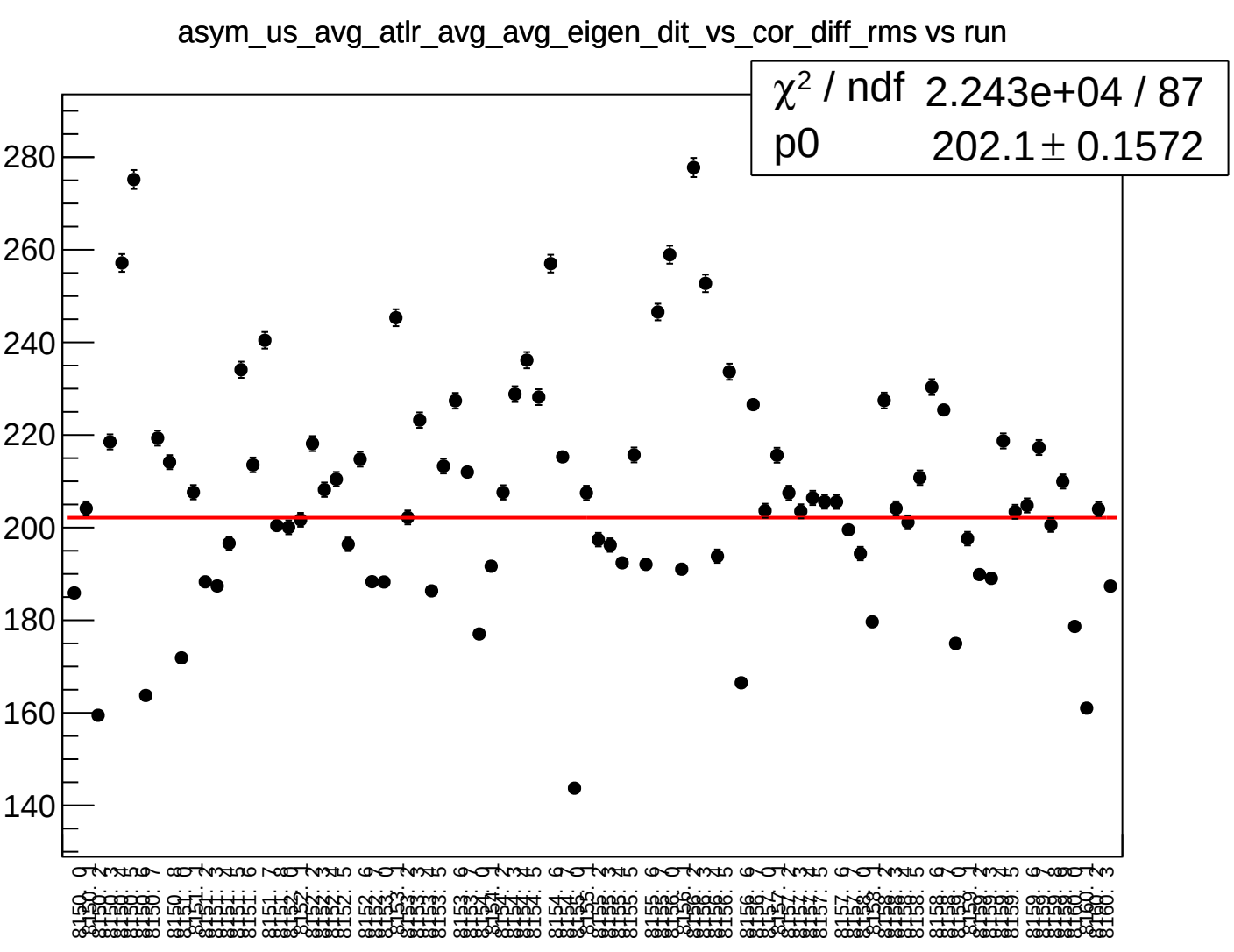

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.52 / 87
p0 −0.1927 ± 0.2223
pull
Entries 88
Mean 31.68
Std Dev 0
pull1D
Entries 88
Mean 0.009702
Std Dev 1.014

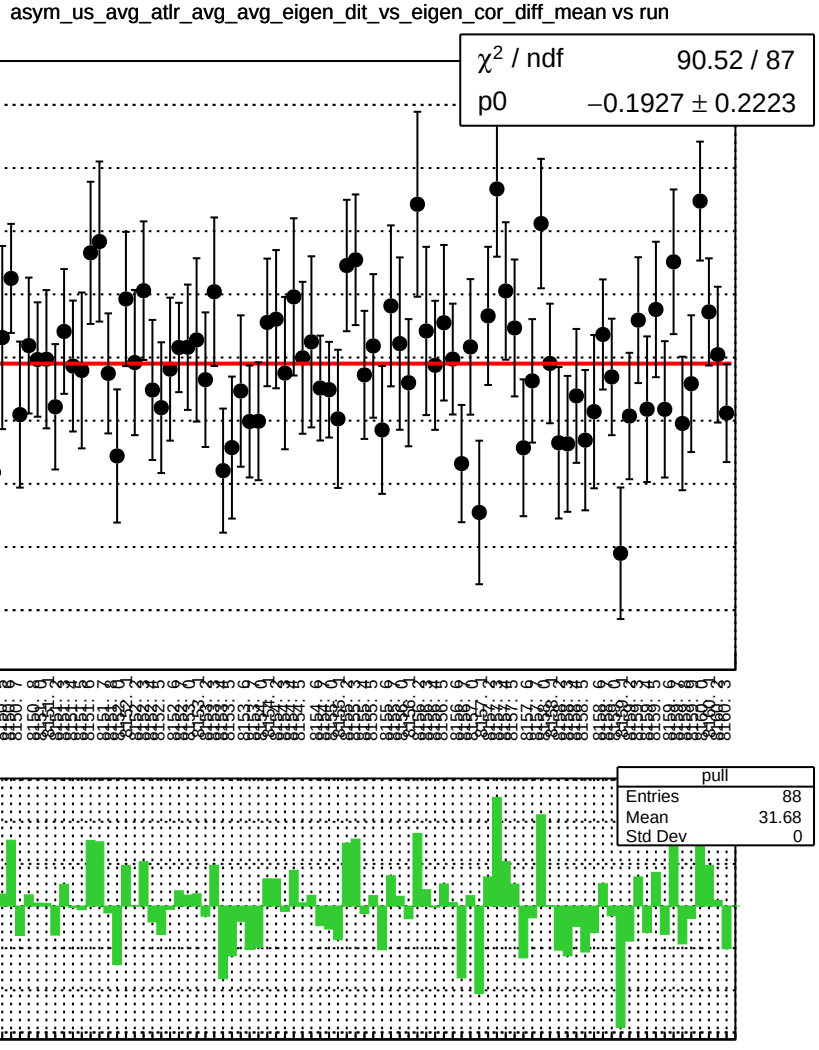

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.243e+04 / 87
p0 202.1 ± 0.1572
280
260
240
220
200
180
160
140

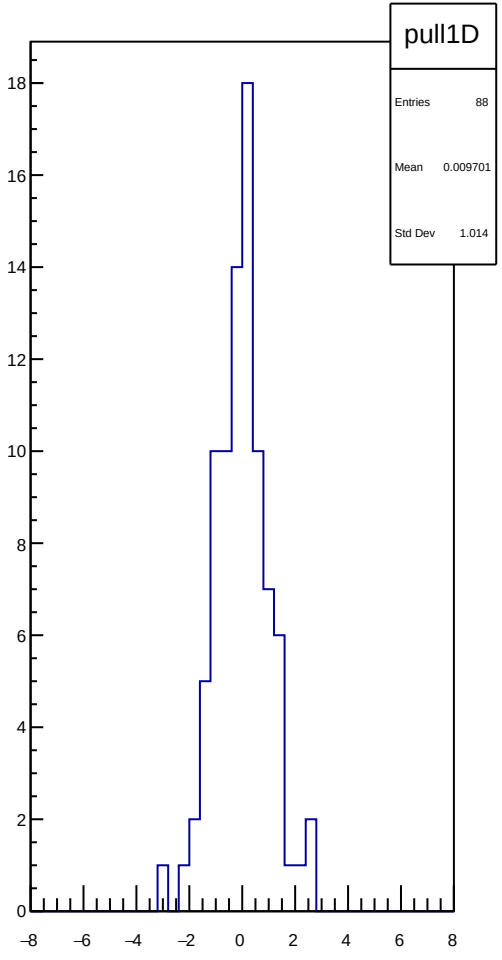

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.69 / 87
p0 −2.995e−05 ± 8.809e−06
pull
Entries 88
Mean 63.86
Std Dev 143.2
pull1D
Entries 88
Mean −0.003145
Std Dev 1.043

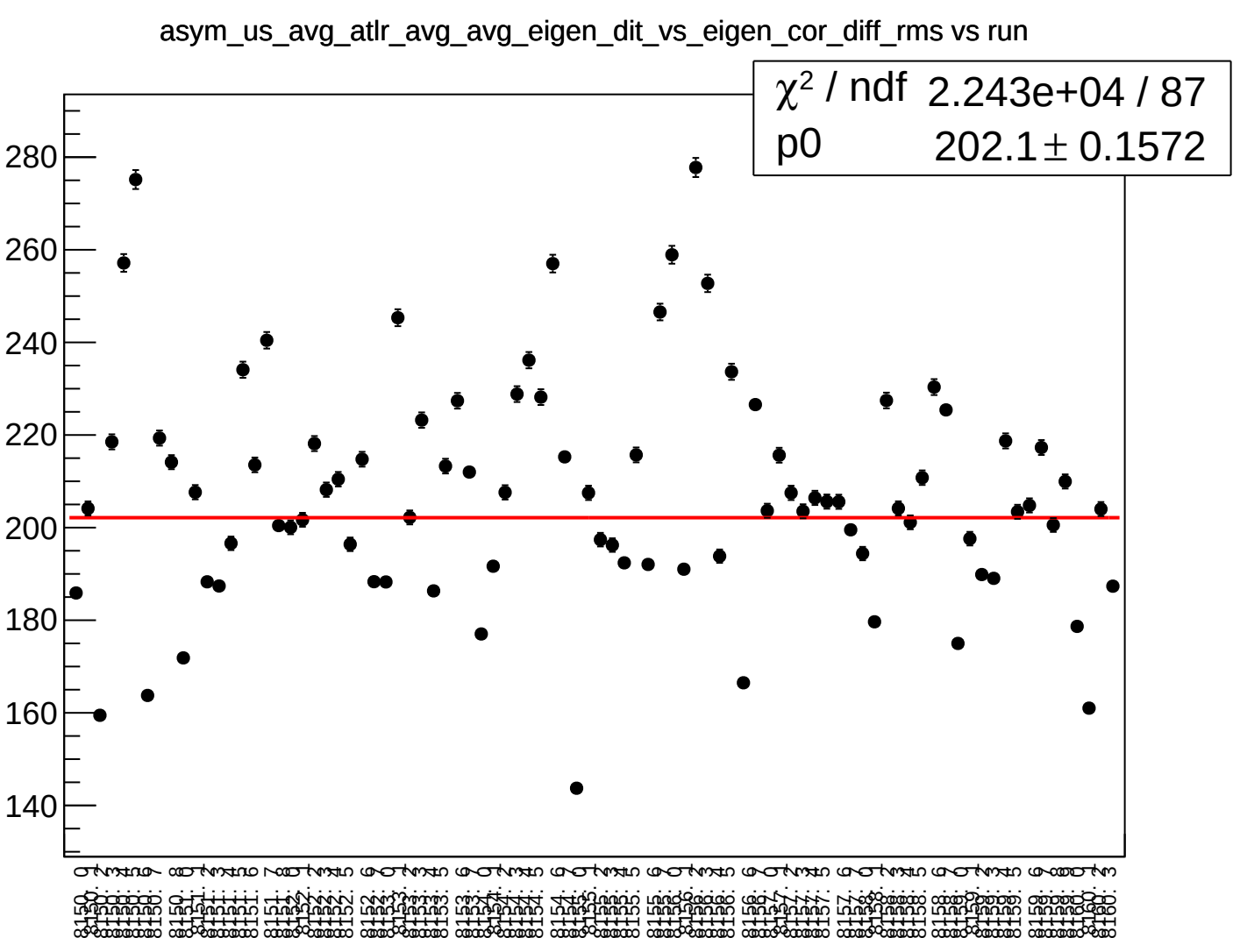

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1398 / 87
p0 0.008062 ± 6.229e−06
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076

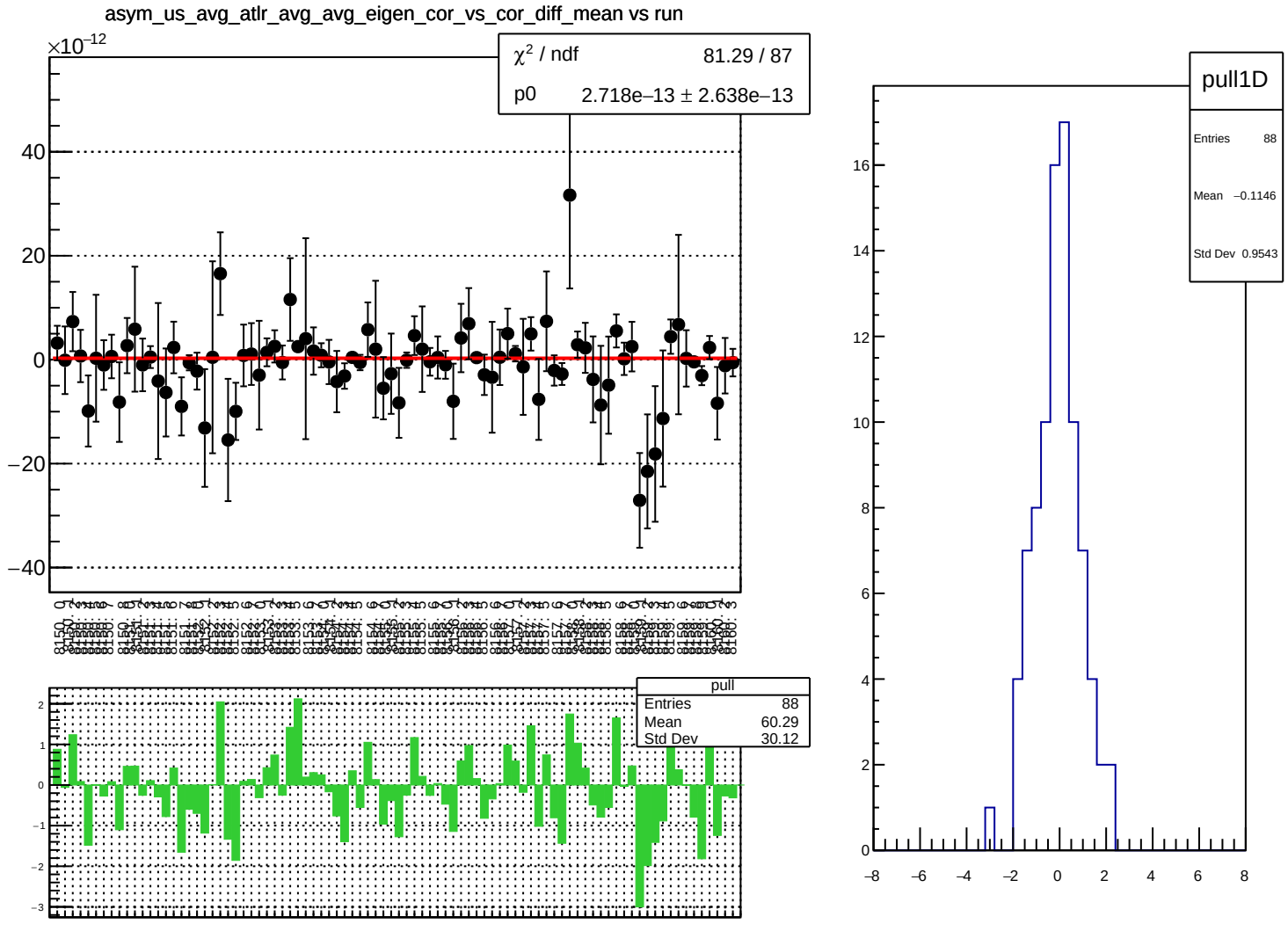

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.52 / 87
p0 −0.1927 ± 0.2223
pull
Entries 88
Mean 31.68
Std Dev 0
pull1D
Entries 88
Mean 0.009701
Std Dev 1.014

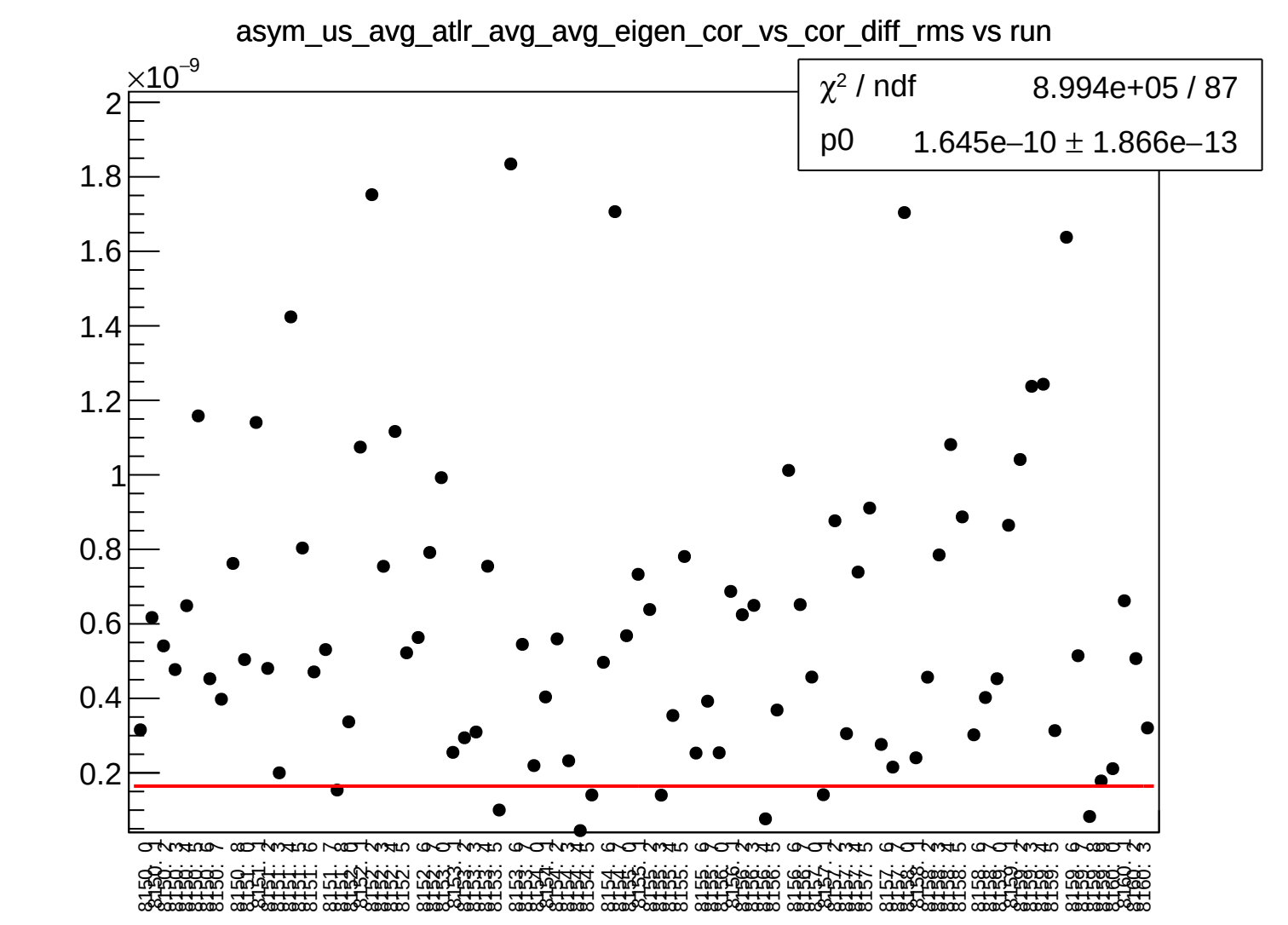

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.243e+04 / 87
p0 202.1 ± 0.1572
280
260
240
220
200
180
160
140

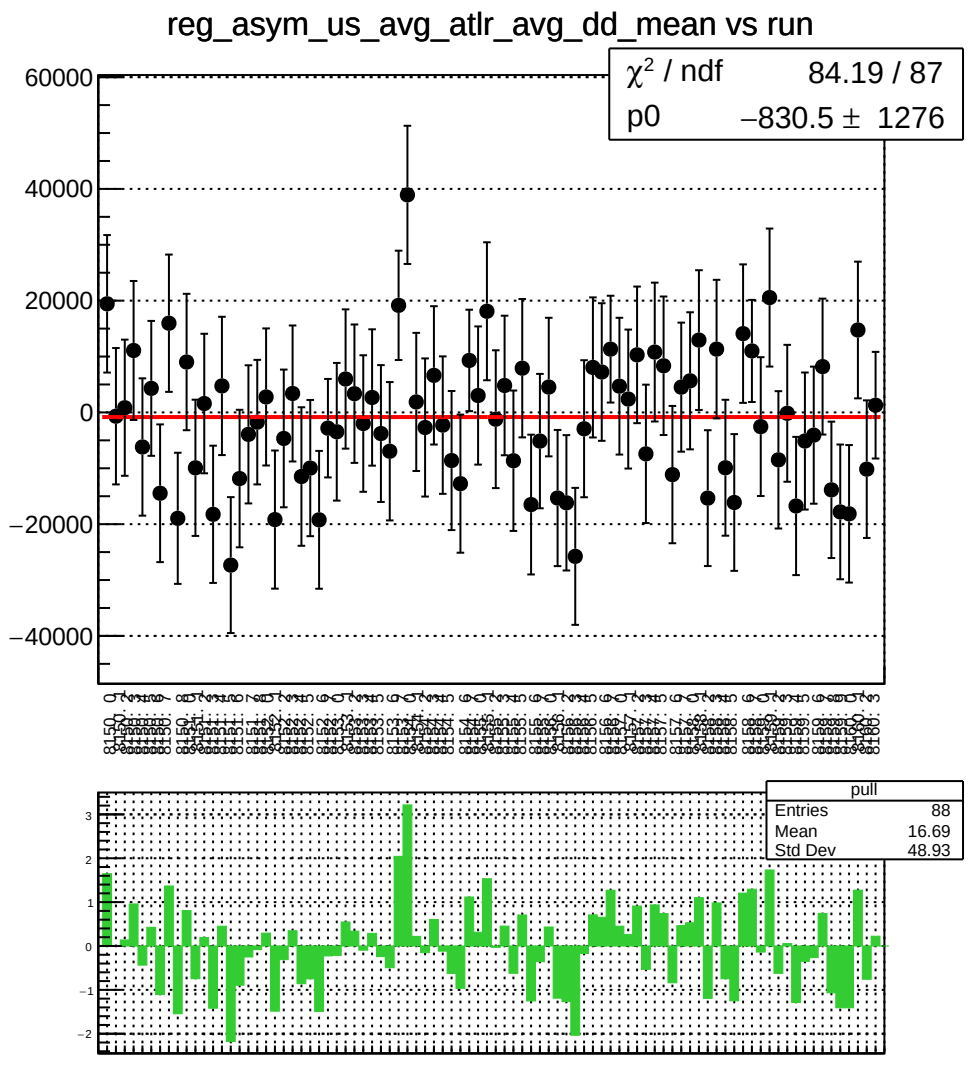

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.52 / 87
p0 −0.1927 ± 0.2223
pull
Entries 88
Mean 31.68
Std Dev 0

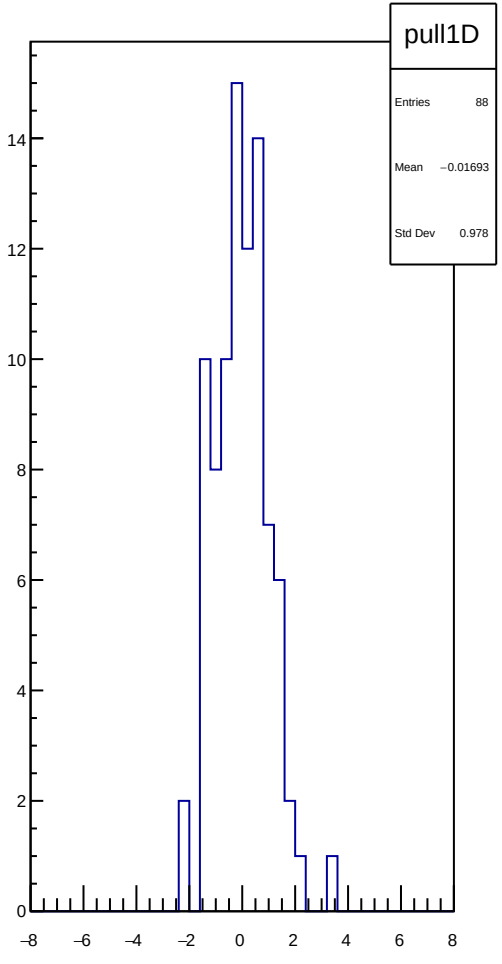

pull1D
Entries 88
Mean 0.009701
Std Dev 1.014

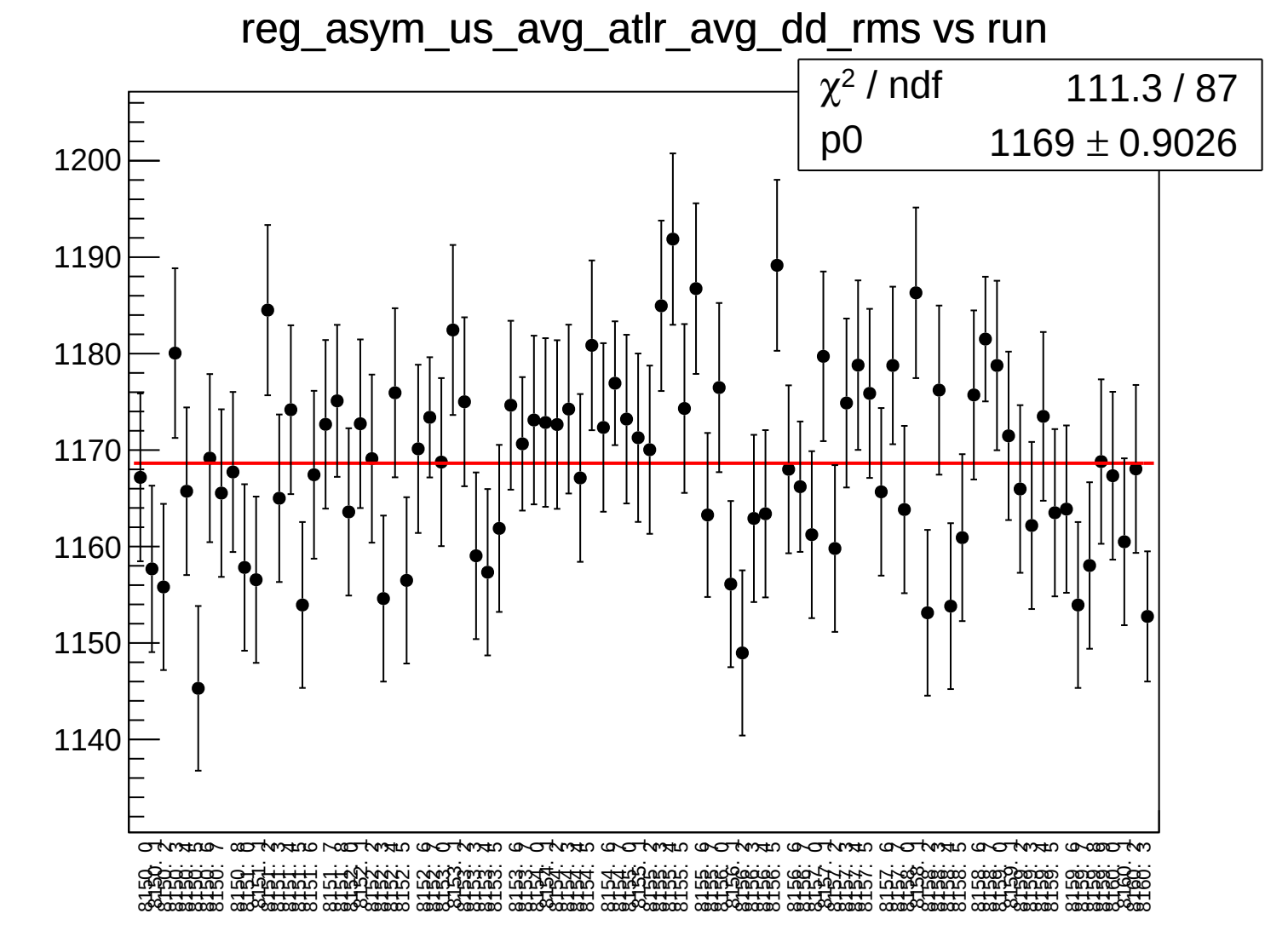

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.243e+04 / 87
p0 202.1 ± 0.1572
280
260
240
220
200
180
160
140

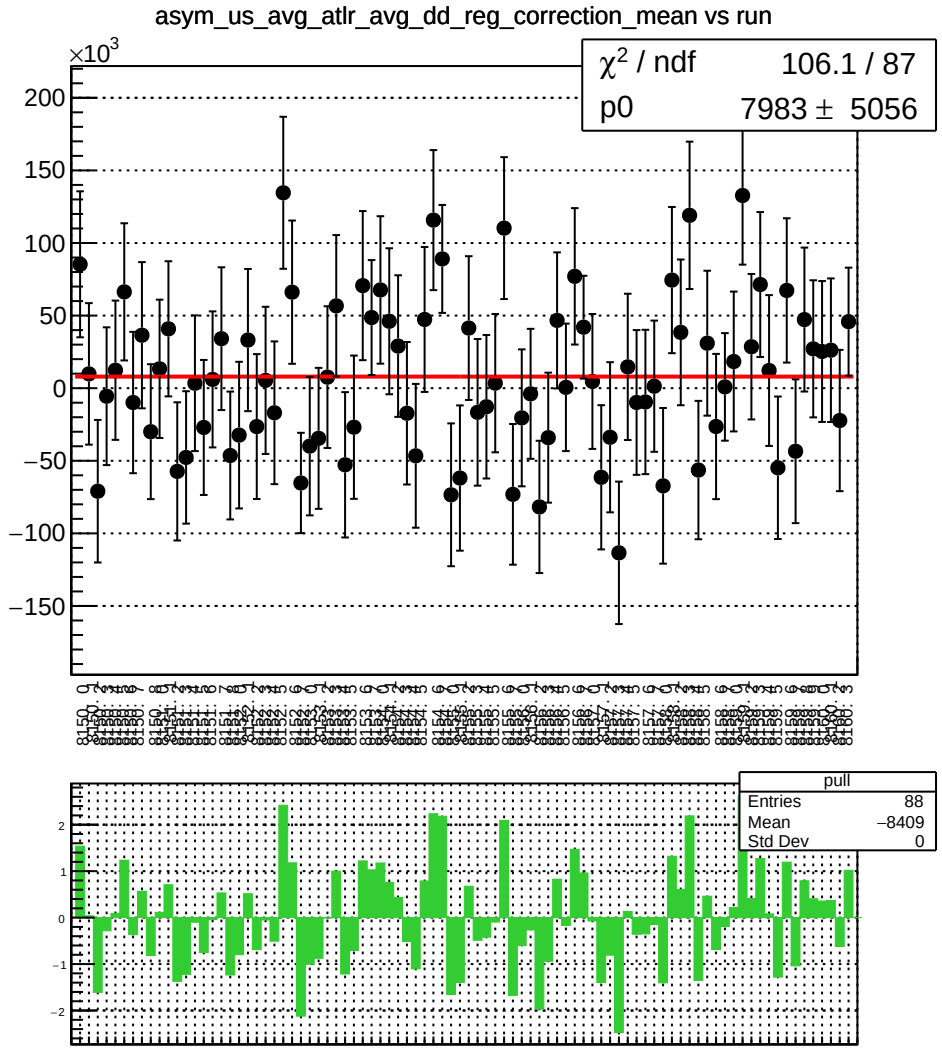

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.29 / 87
p0 2.718e−13 ± 2.638e−13
40
20
0
−20
−40
pull
Entries 88
Mean 60.29
Std Dev 30.12
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.1146
Std Dev 0.9543
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

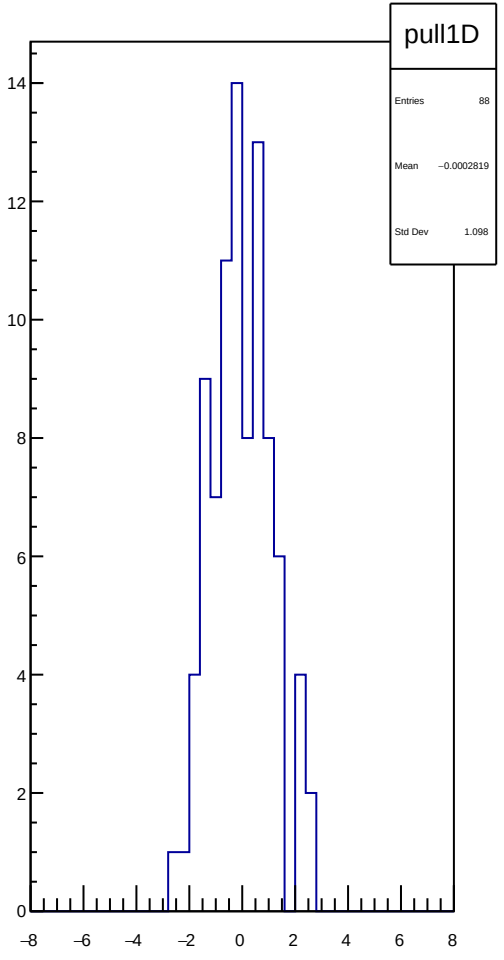

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.994e+05 / 87
p0 1.645e−10 ± 1.866e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

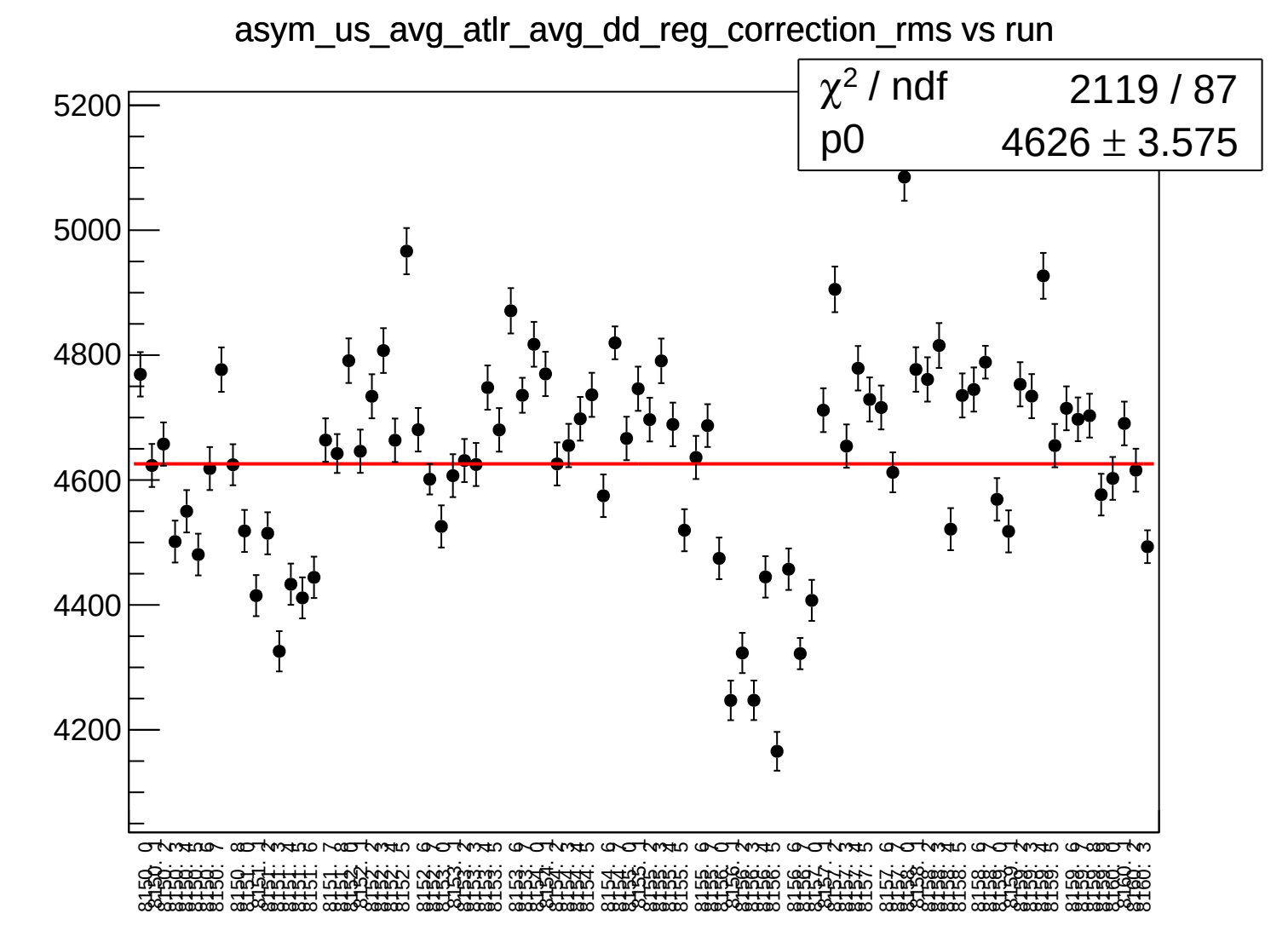

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 84.19 / 87
p0 −830.5 ± 1276
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 16.69
Std Dev 48.93
3
2
1
0
−1
−2

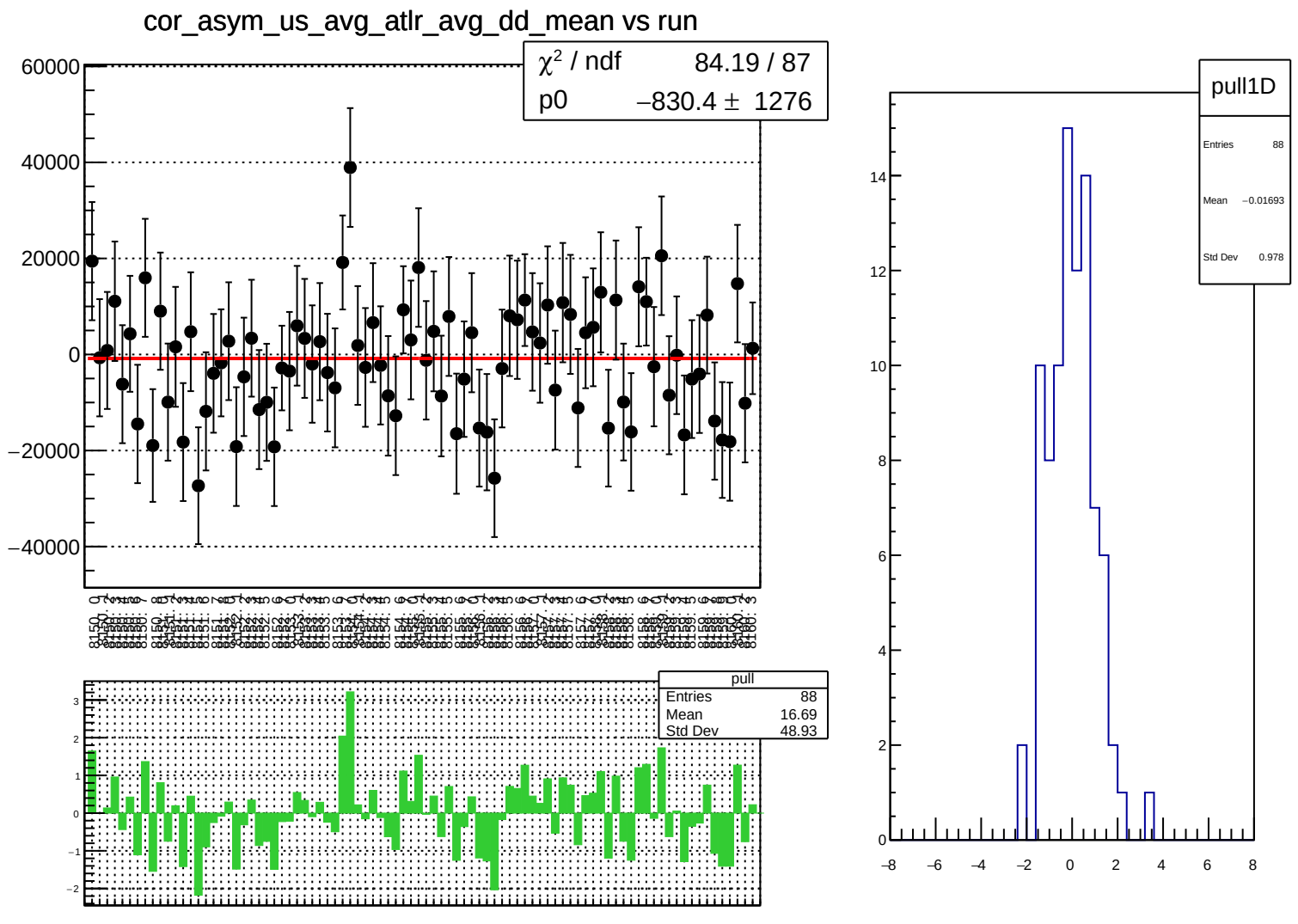

pull1D
Entries 88
Mean −0.01693
Std Dev 0.978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

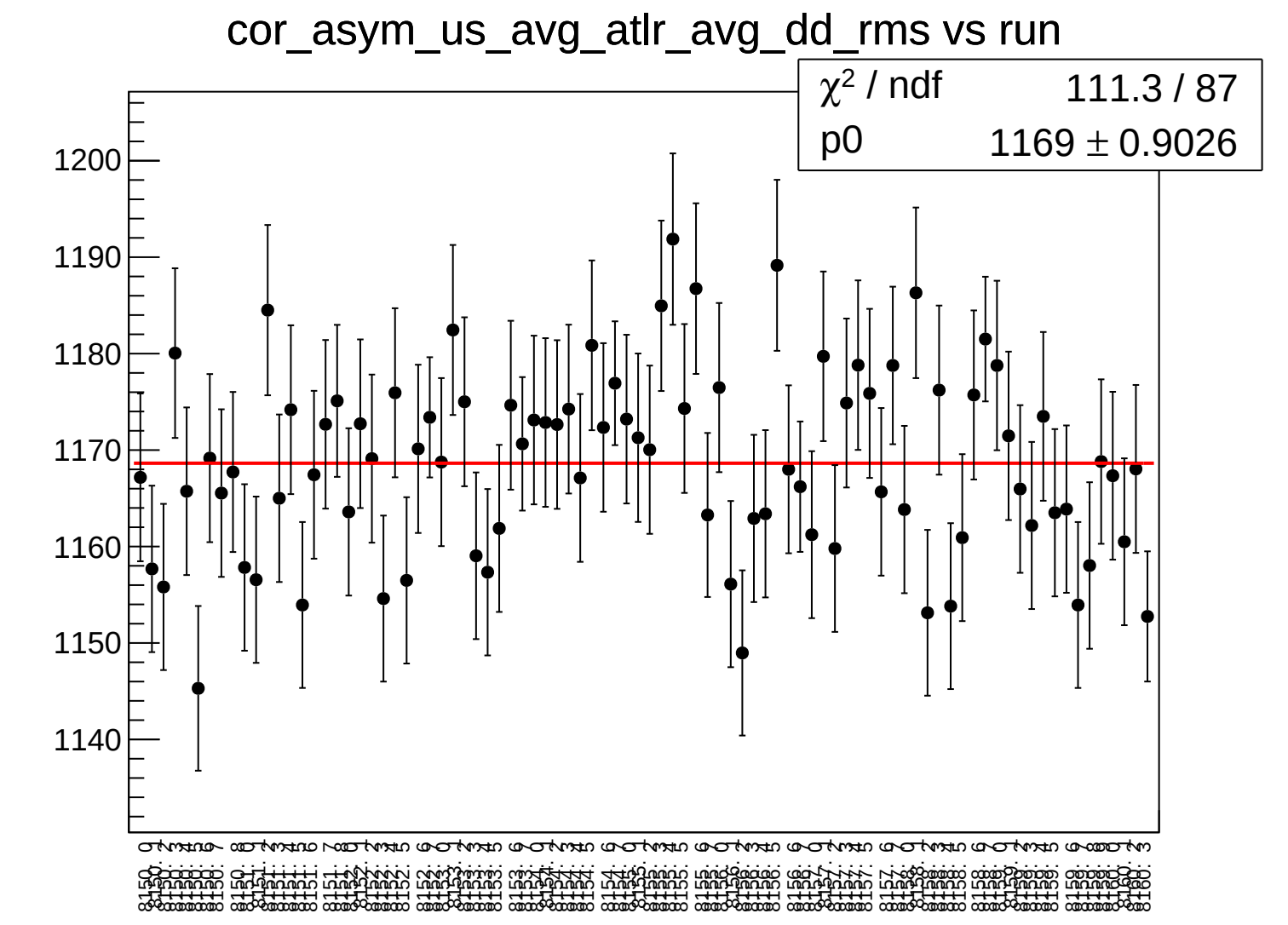

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 111.3 / 87
p0 1169 ± 0.9026
1200
1190
1180
1170
1160
1150
1140

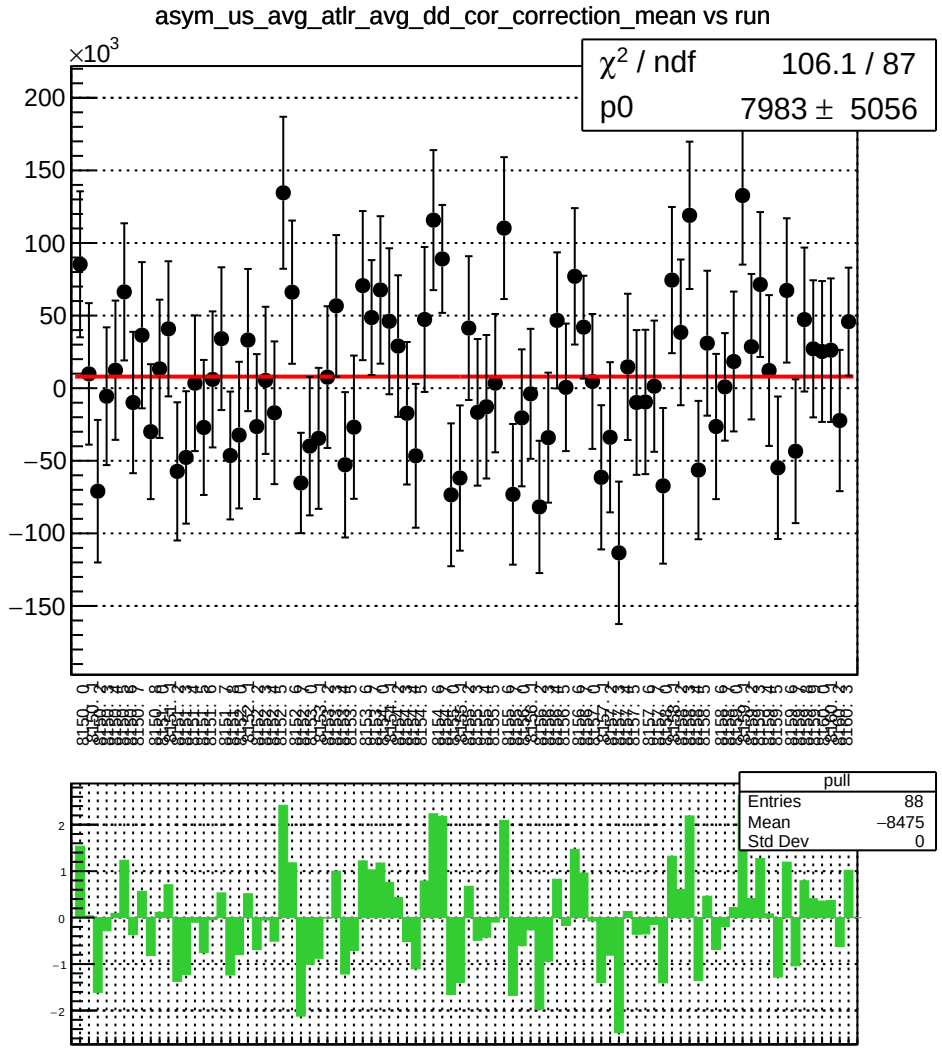

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 106.1 / 87
p0 7983 ± 5056
pull
Entries 88
Mean −8409
Std Dev 0

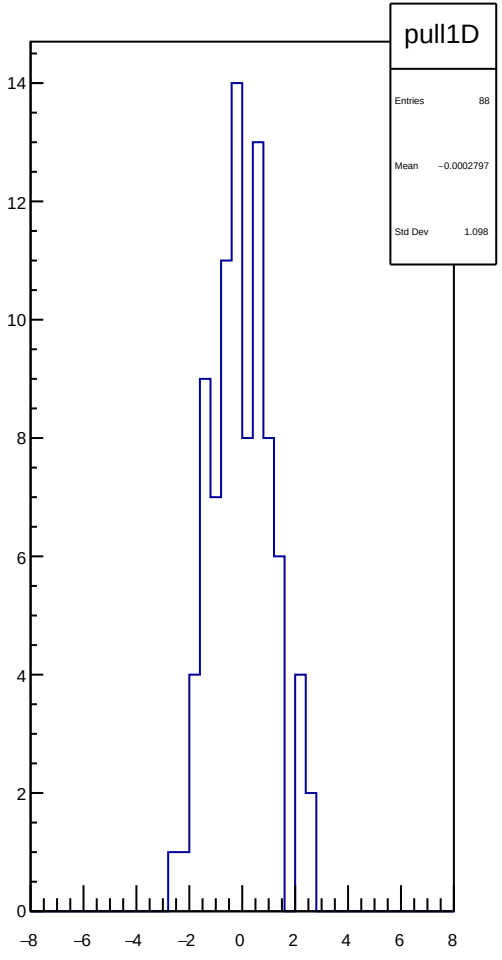

pull1D
Entries 88
Mean −0.0002819
Std Dev 1.098

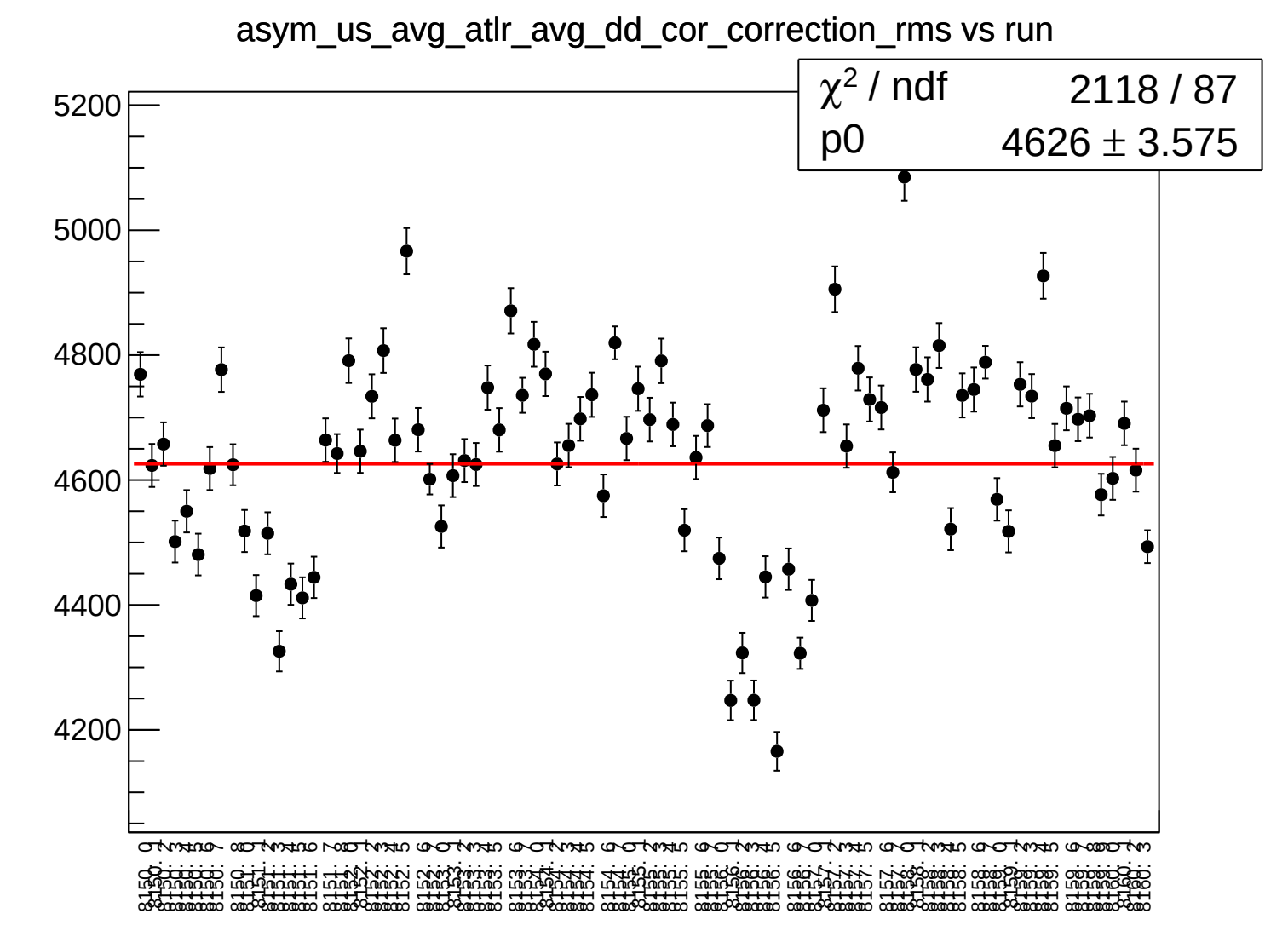

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 2119 / 87
p0 4626 ± 3.575
5200
5000
4800
4600
4400
4200

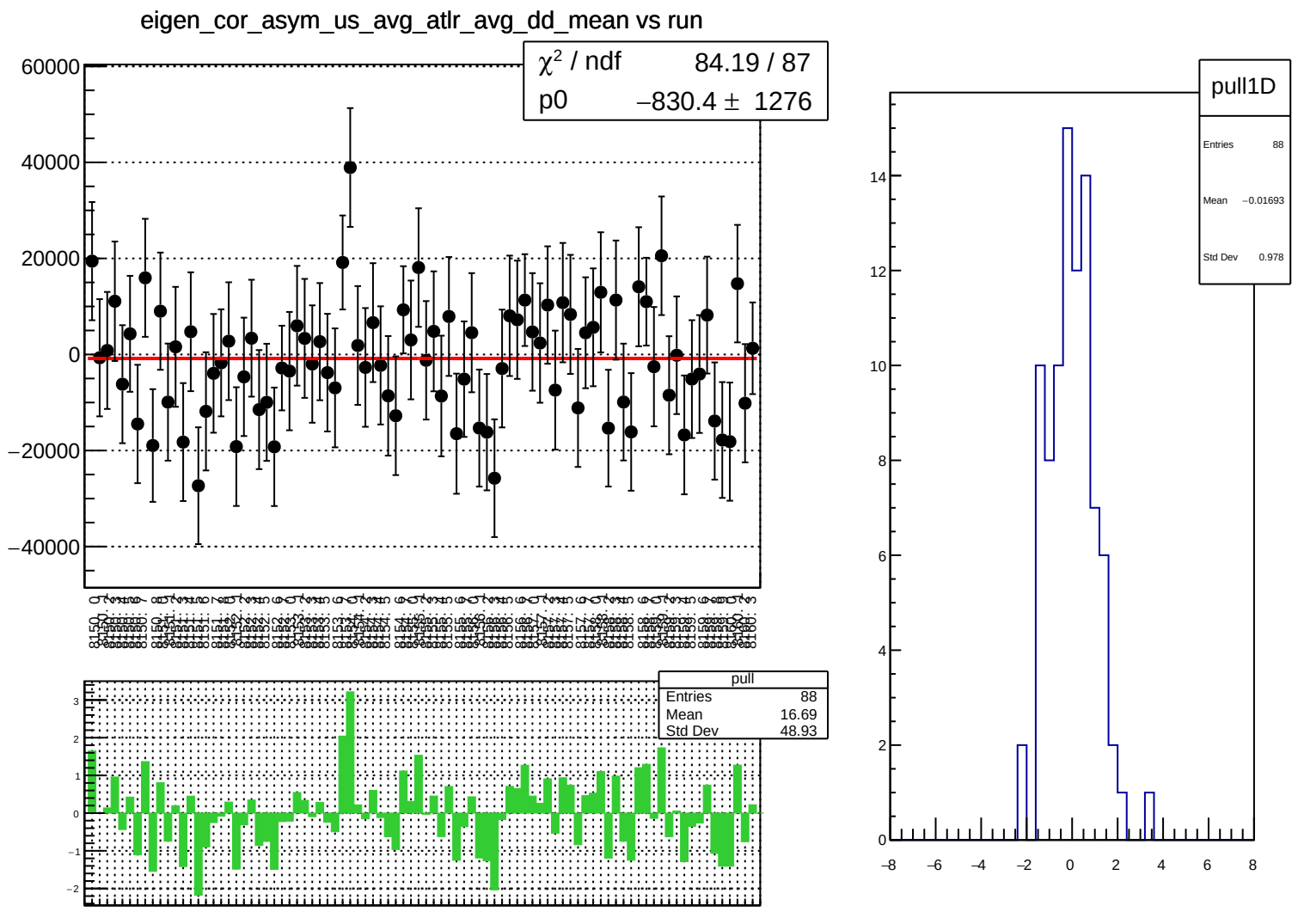

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 84.19 / 87
p0 −830.4 ± 1276
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 16.69
Std Dev 48.93
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01693
Std Dev 0.978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

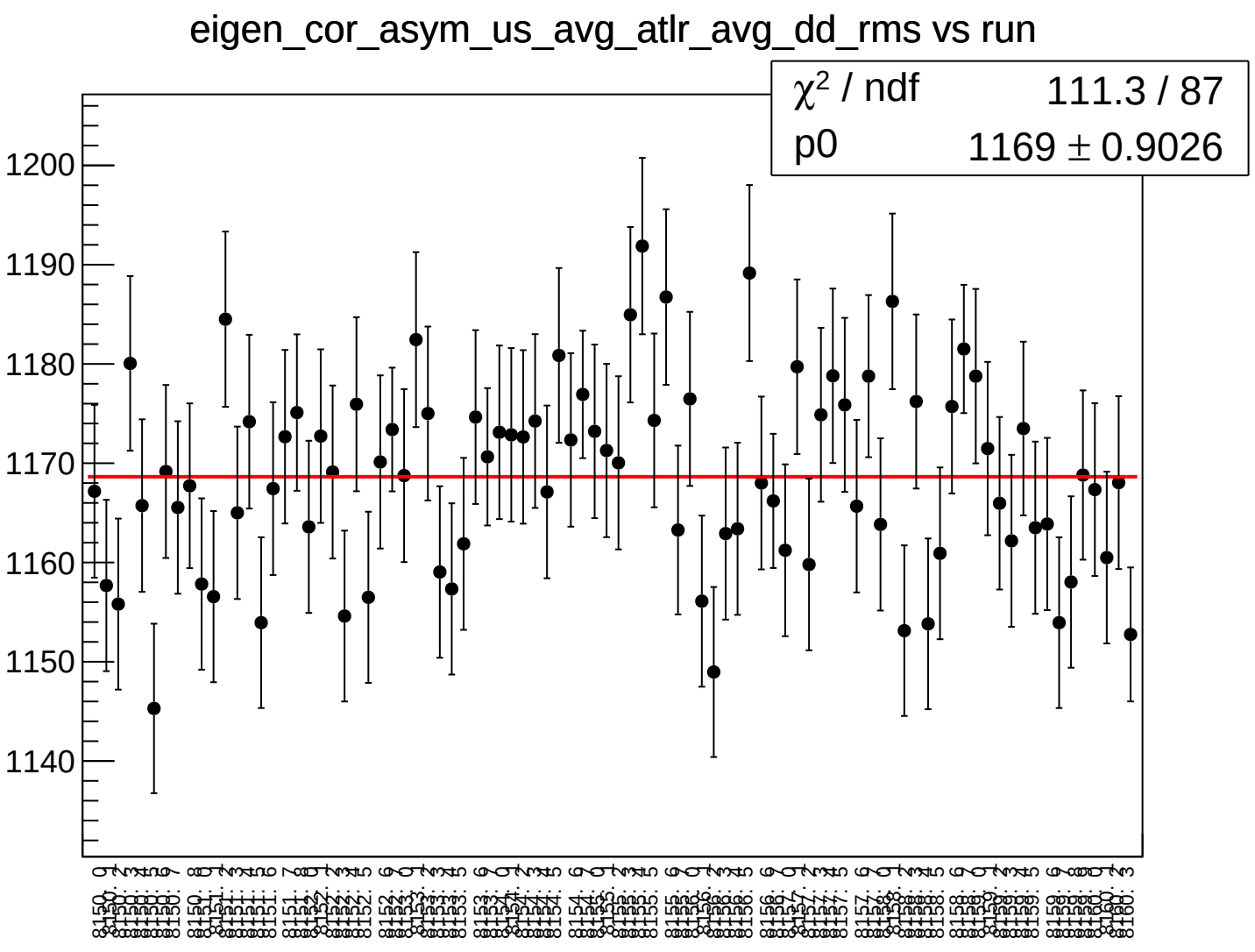

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 111.3 / 87
p0 1169 ± 0.9026
1200
1190
1180
1170
1160
1150
1140

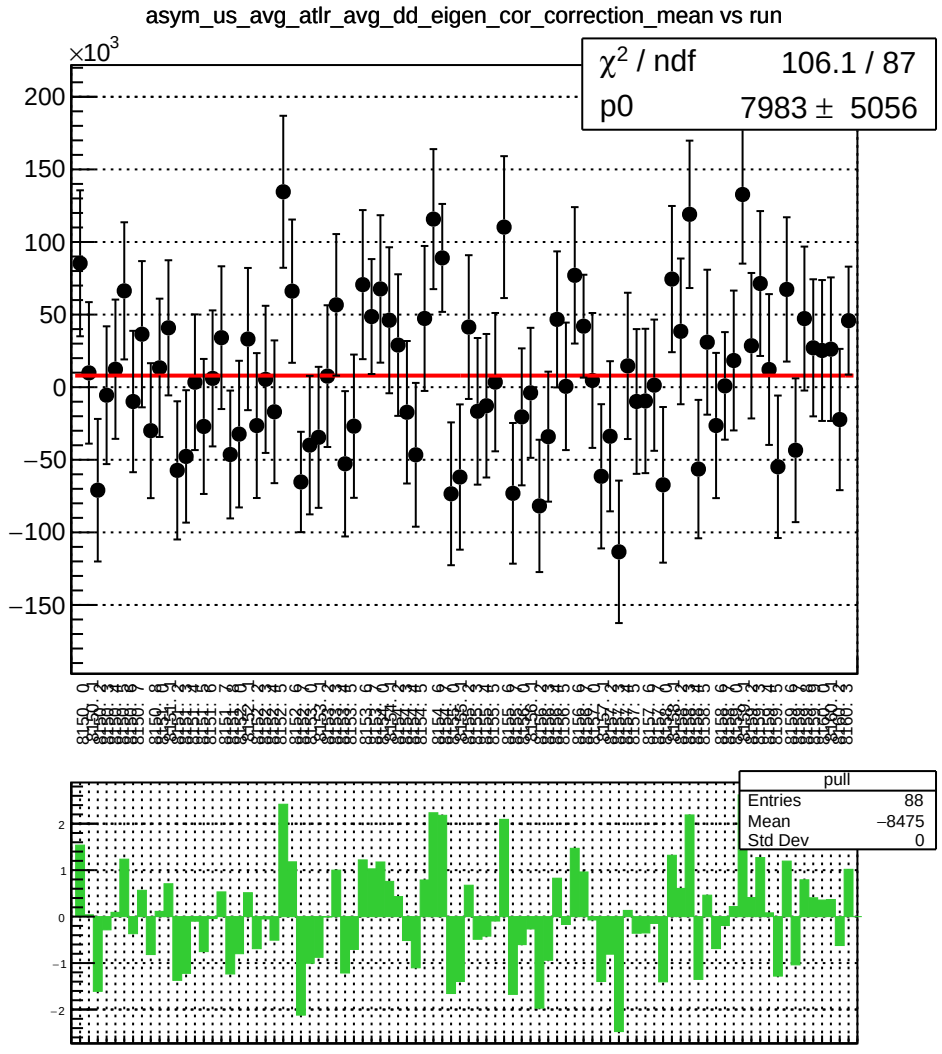

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 106.1 / 87
p0 7983 ± 5056
200
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −8475
Std Dev 0
2
1
0
−1
−2

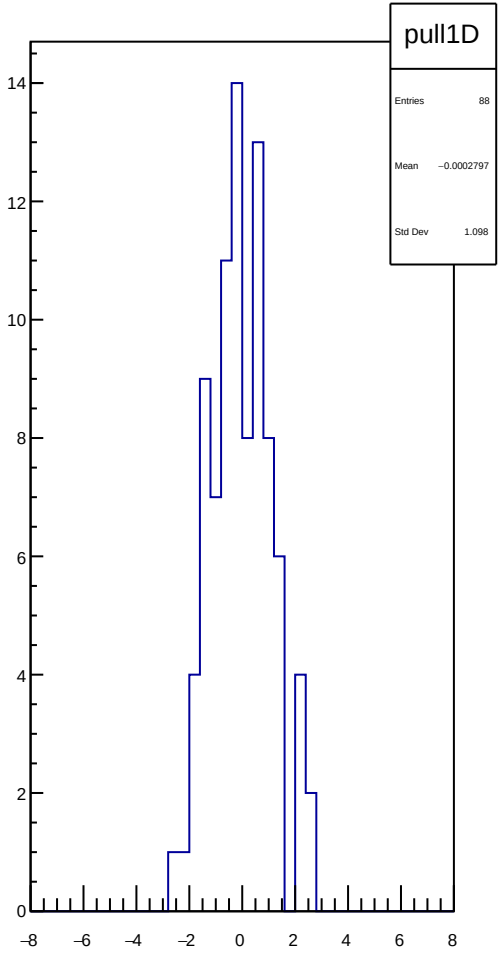

pull1D
Entries 88
Mean −0.0002797
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

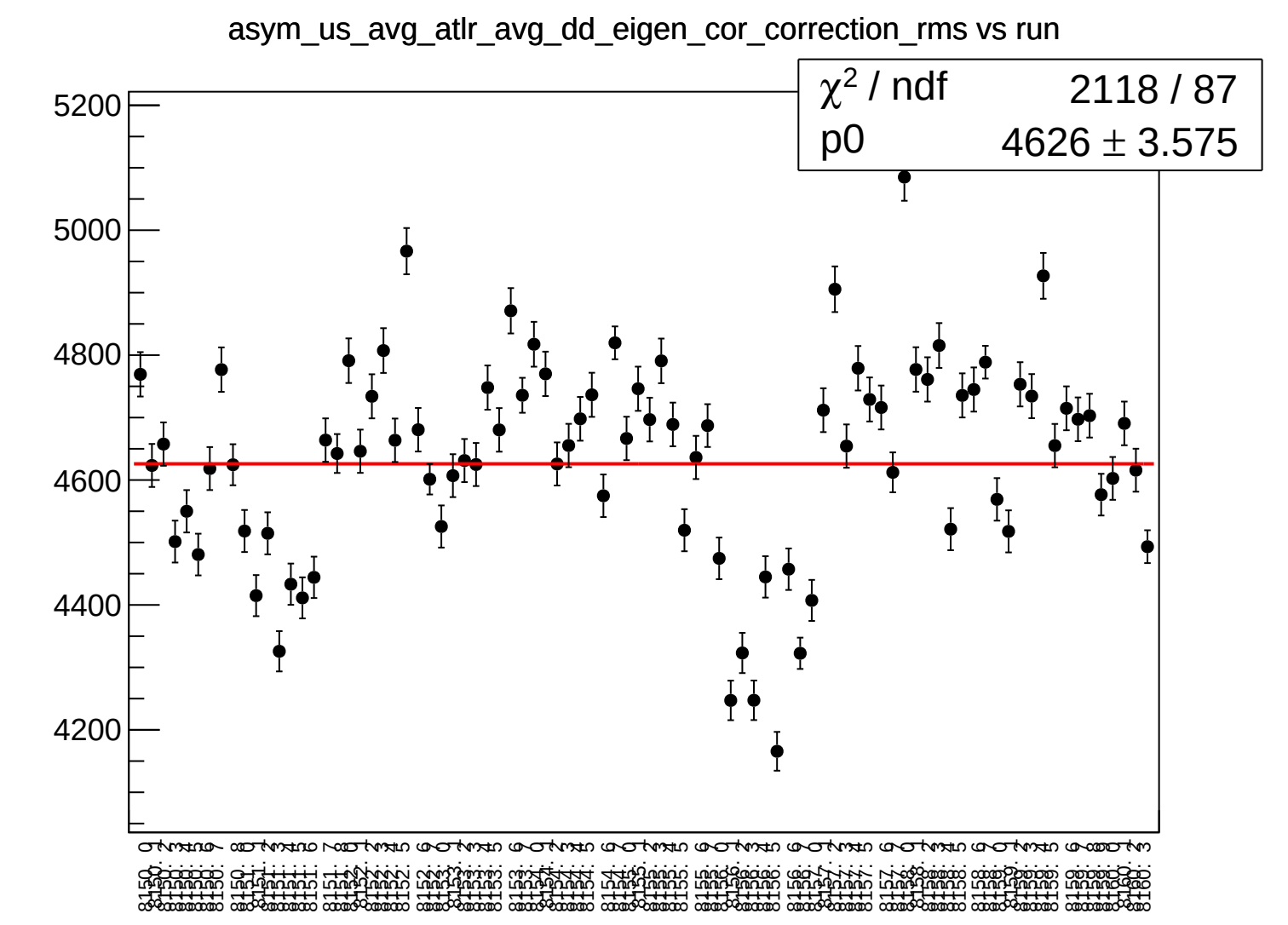

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 2118 / 87
p0 4626 ± 3.575
5200
5000
4800
4600
4400
4200

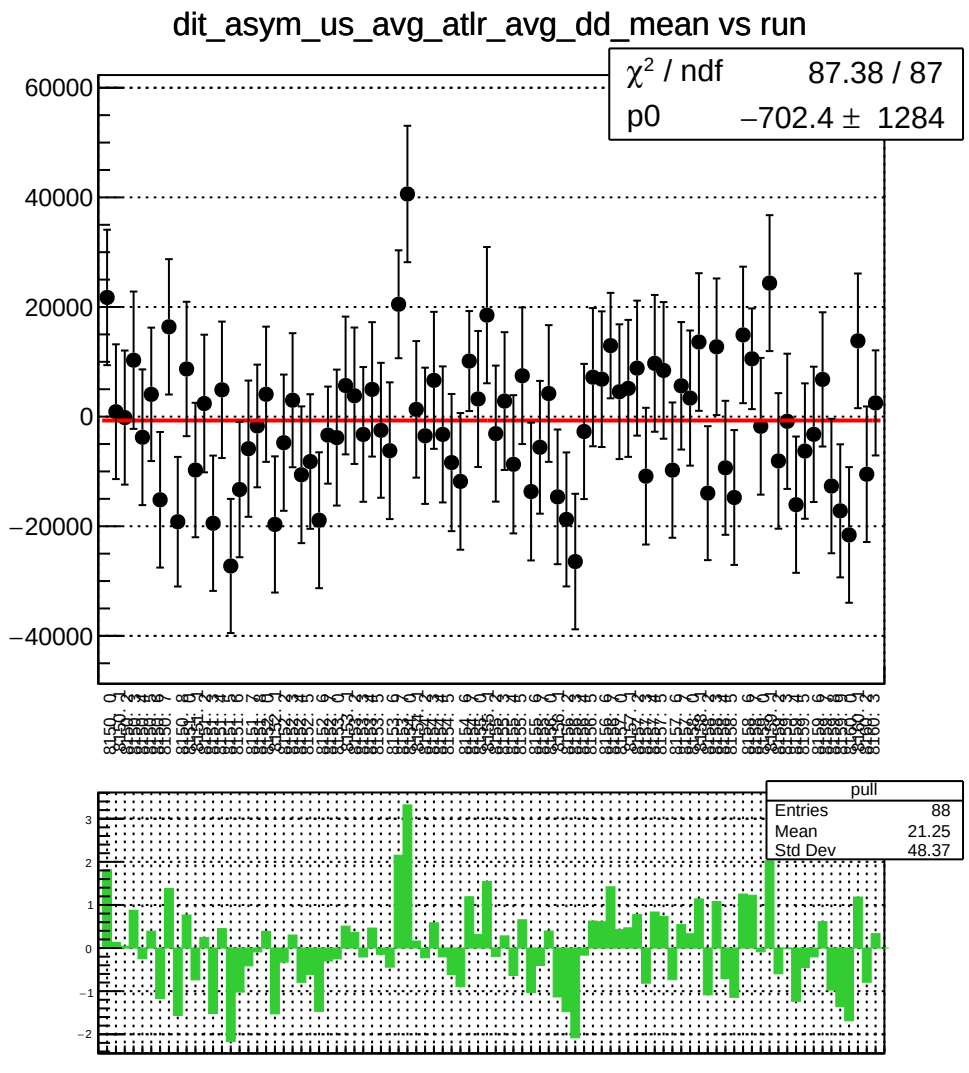

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 84.19 / 87
p0 −830.4 ± 1276
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 16.69
Std Dev 48.93
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01693
Std Dev 0.978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

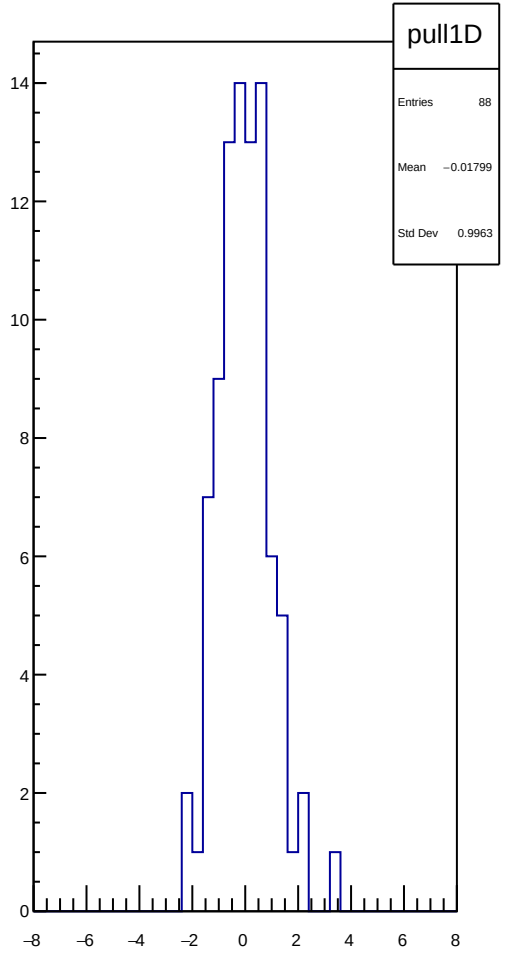

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 111.3 / 87
p0 1169 ± 0.9026
1200
1190
1180
1170
1160
1150
1140

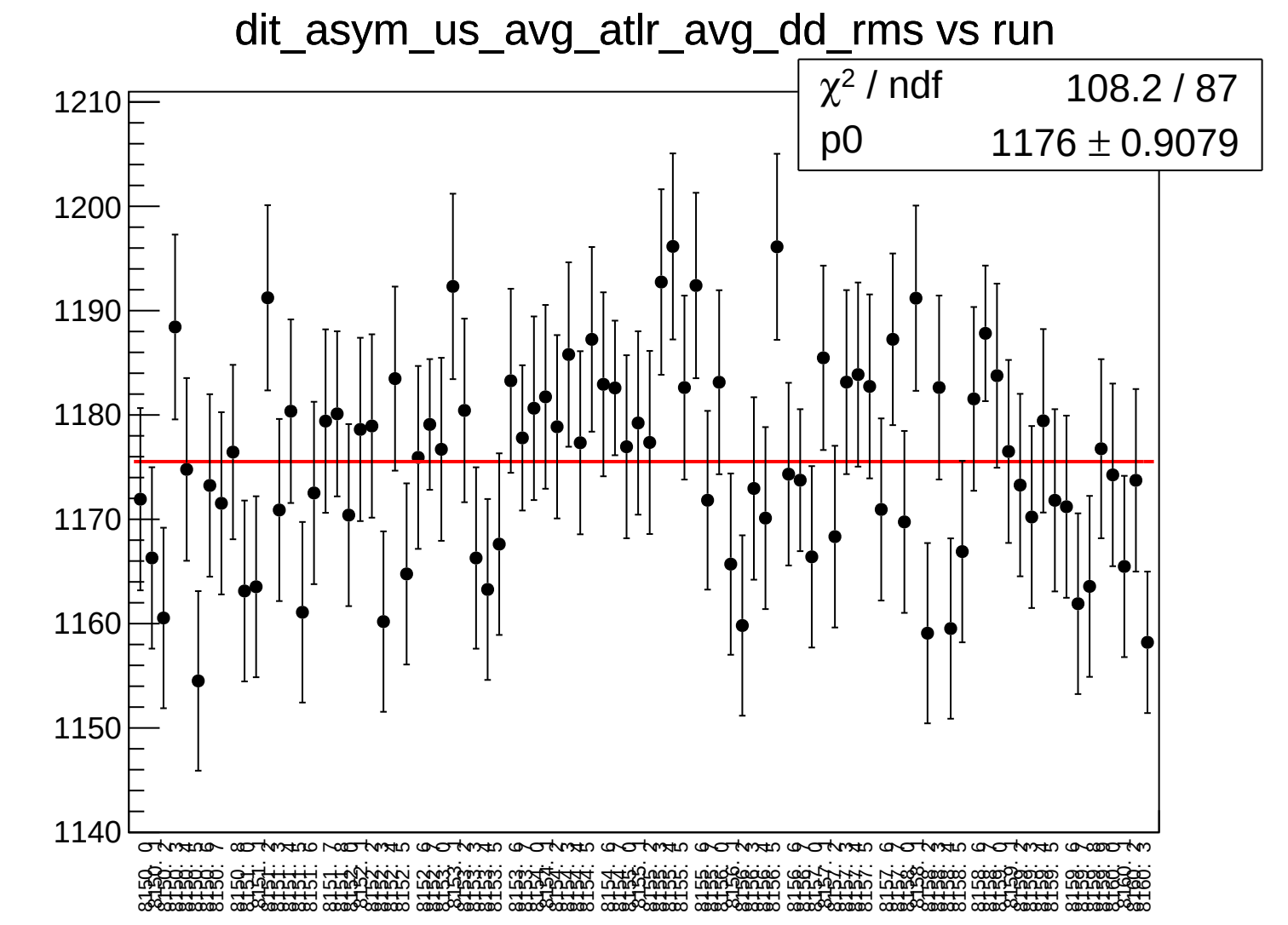

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 106.1 / 87
p0 7983 ± 5056
pull
Entries 88
Mean −8475
Std Dev 0

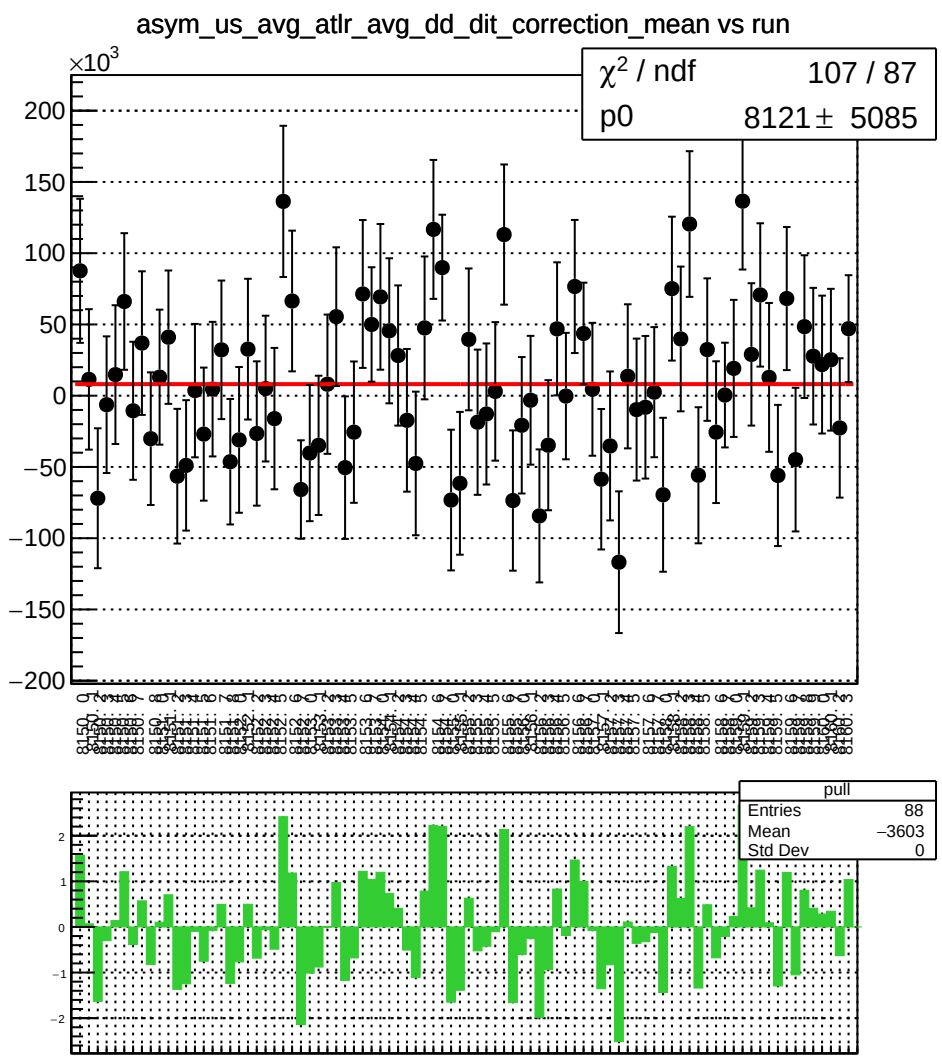

pull1D
Entries 88
Mean −0.0002797
Std Dev 1.098

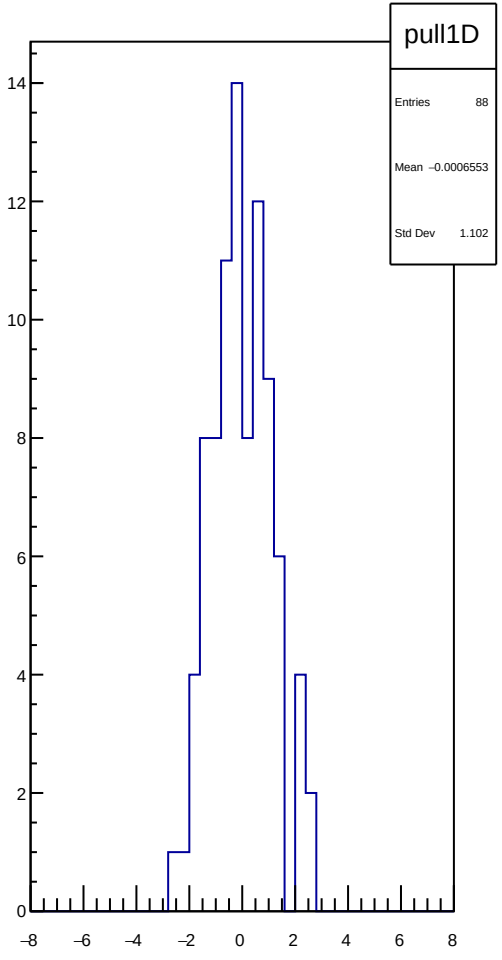

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2118 / 87
p0 4626 ± 3.575
5200
5000
4800
4600
4400
4200

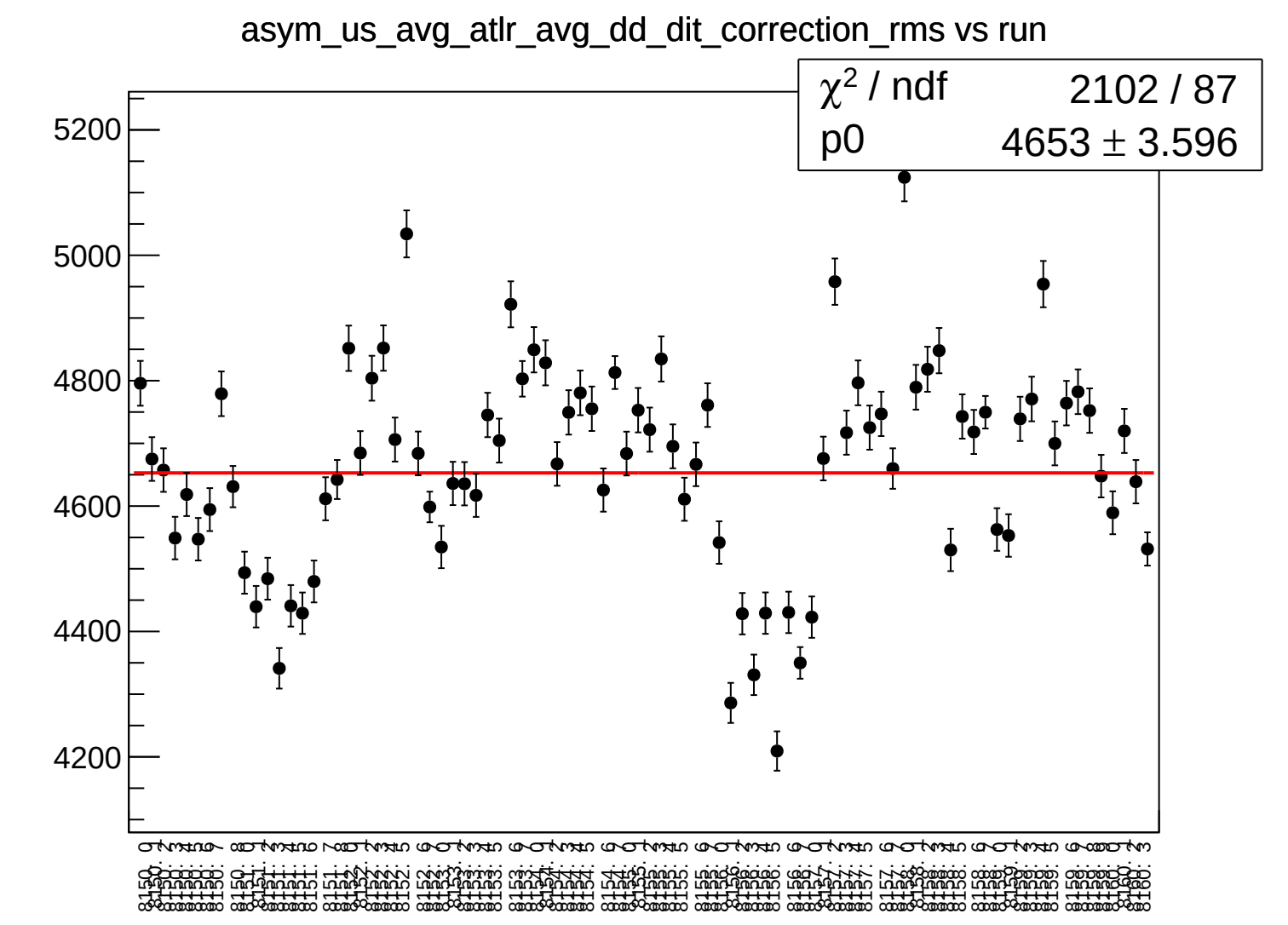

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.38 / 87
p0 −702.4 ± 1284
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 21.25
Std Dev 48.37
3
2
1
0
−1
−2

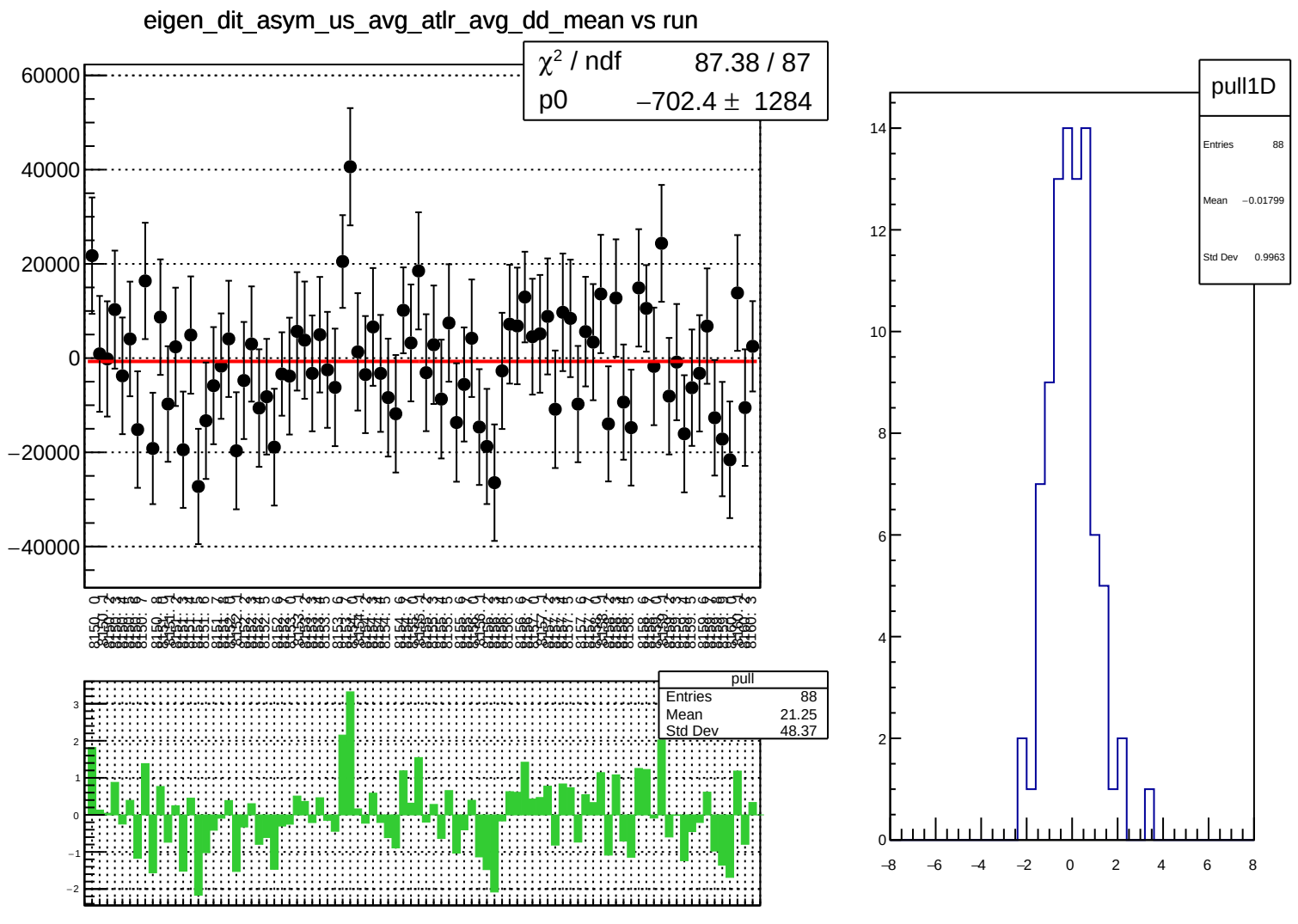

pull1D
Entries 88
Mean −0.01799
Std Dev 0.9963
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

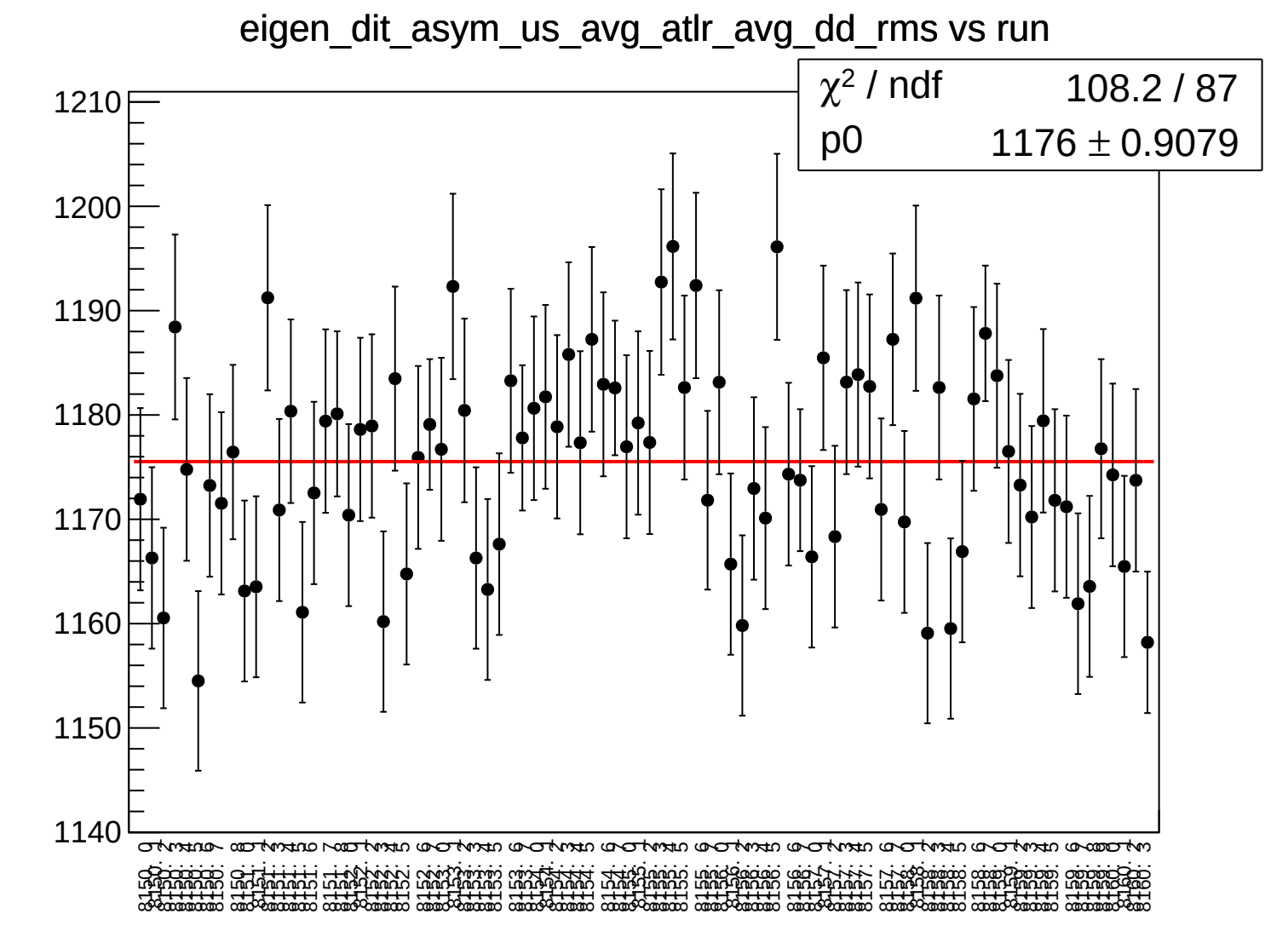

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 108.2 / 87
p0 1176 ± 0.9079
1210
1200
1190
1180
1170
1160
1150
1140

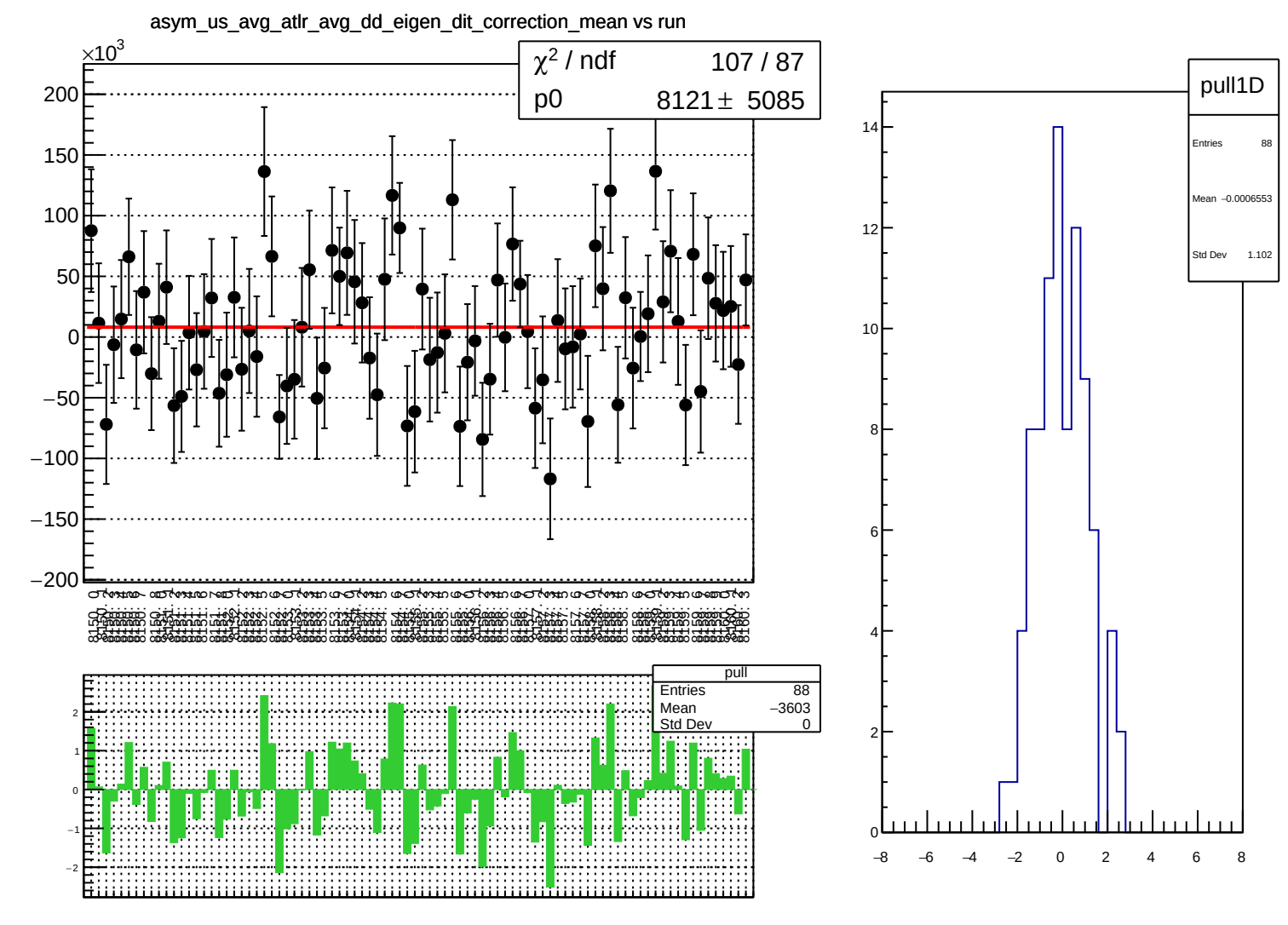

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 107 / 87
p0 8121 ± 5085
pull
Entries 88
Mean −3603
Std Dev 0

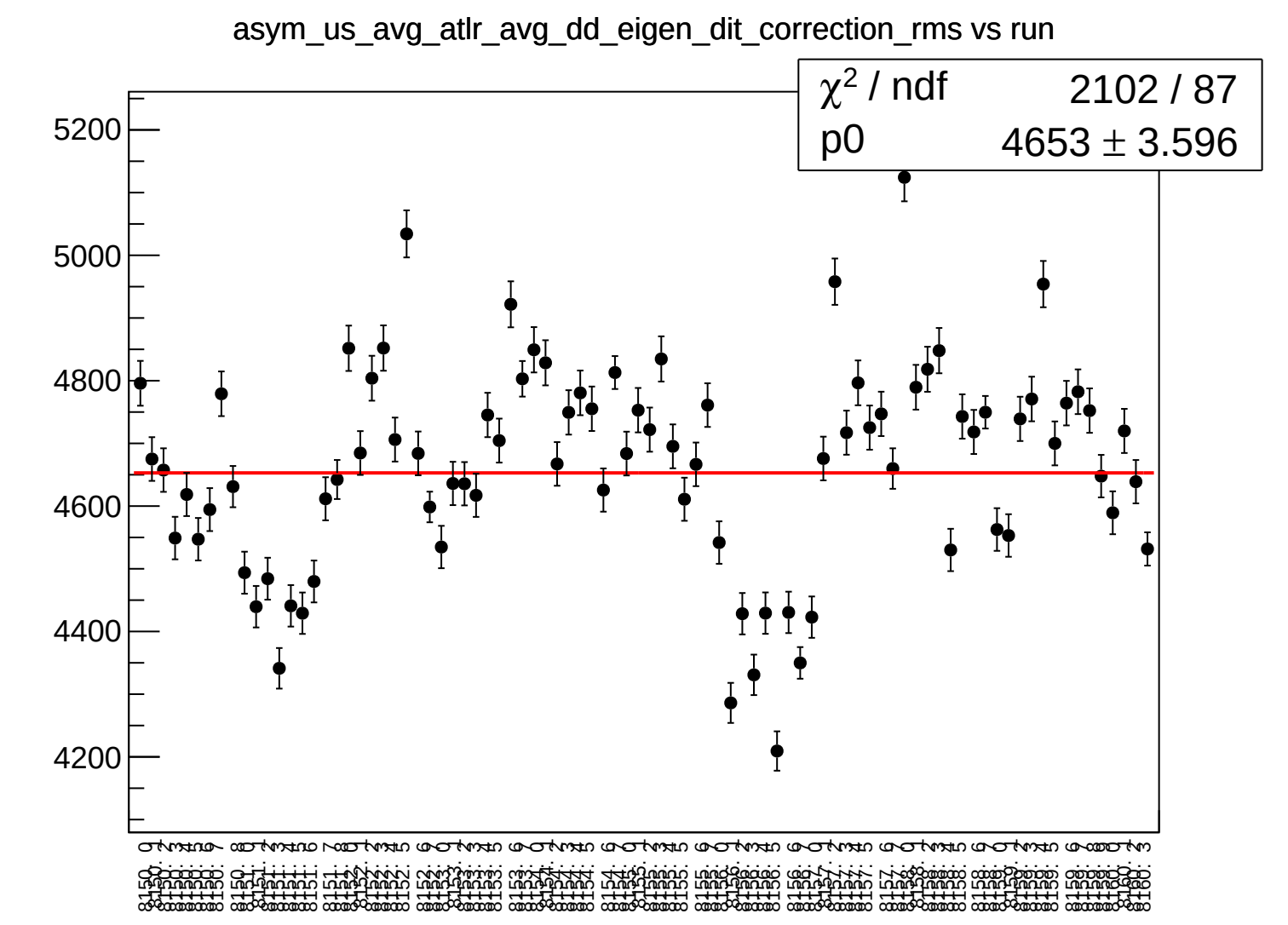

pull1D
Entries 88
Mean −0.0006553
Std Dev 1.102

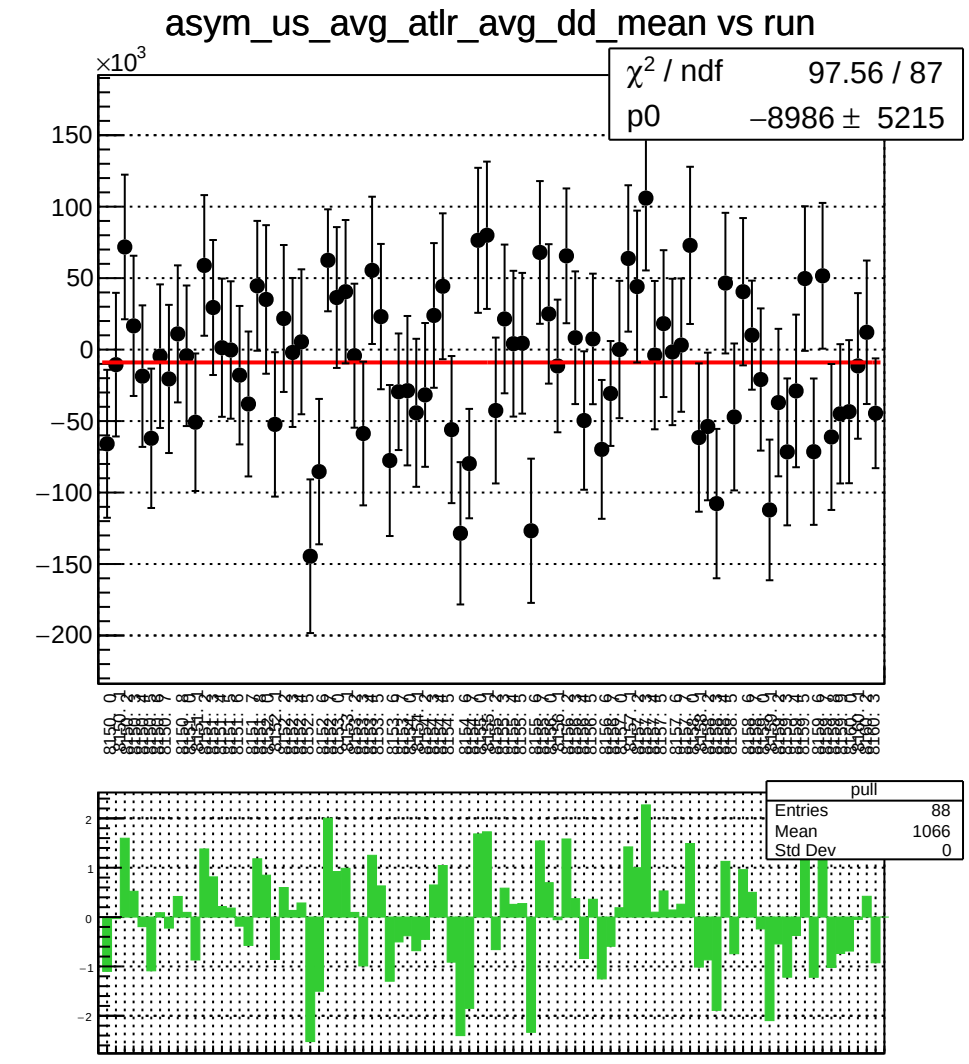

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 2102 / 87
p0 4653 ± 3.596
5200
5000
4800
4600
4400
4200

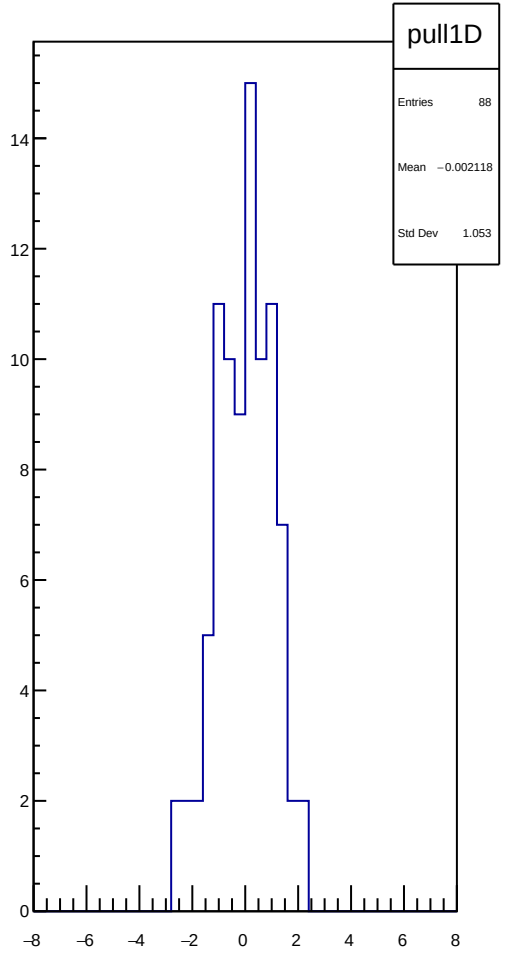

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.38 / 87
p0 −702.4 ± 1284
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 21.25
Std Dev 48.37
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01799
Std Dev 0.9963
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

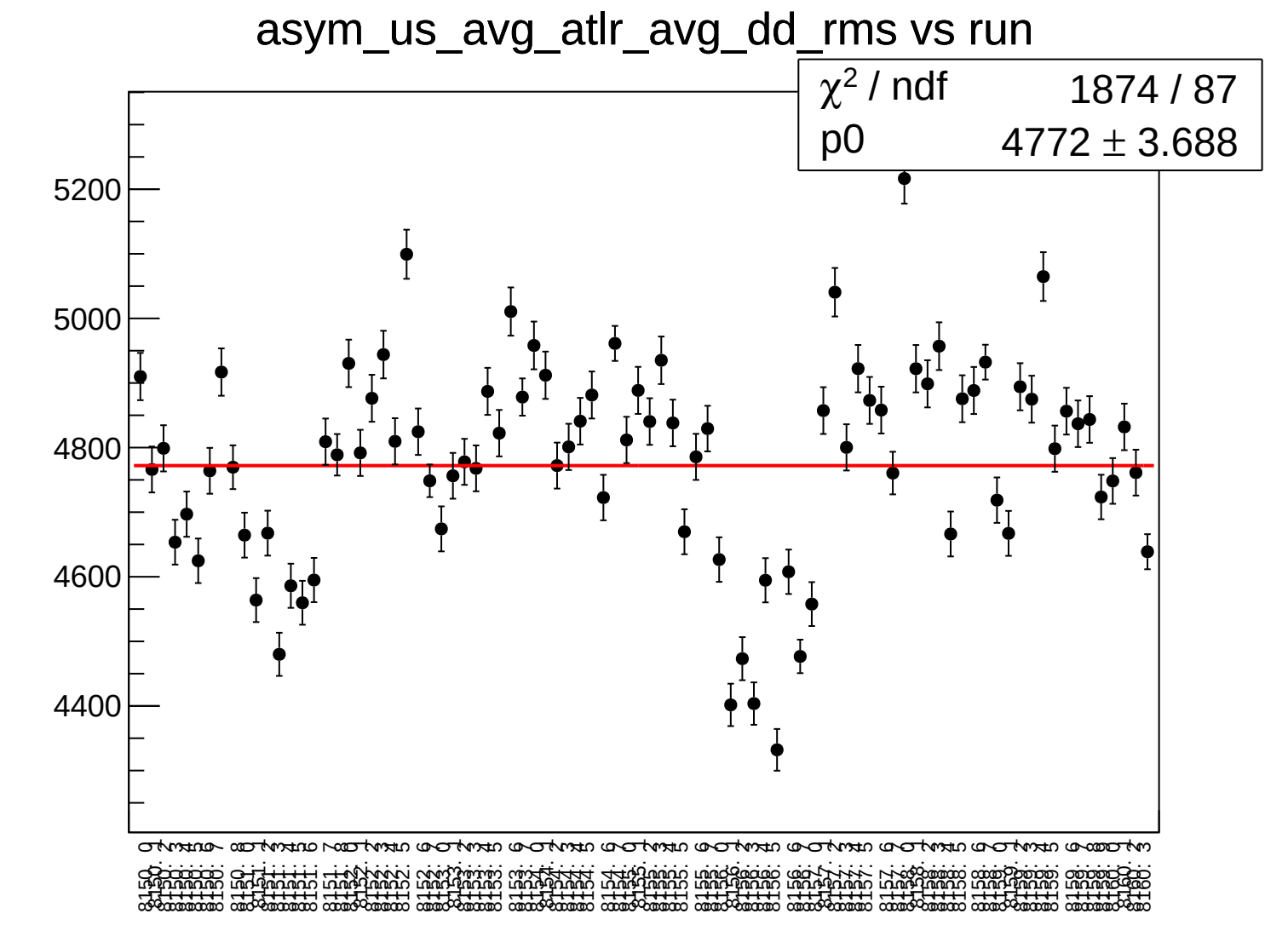

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 108.2 / 87
p0 1176 ± 0.9079
1210
1200
1190
1180
1170
1160
1150
1140

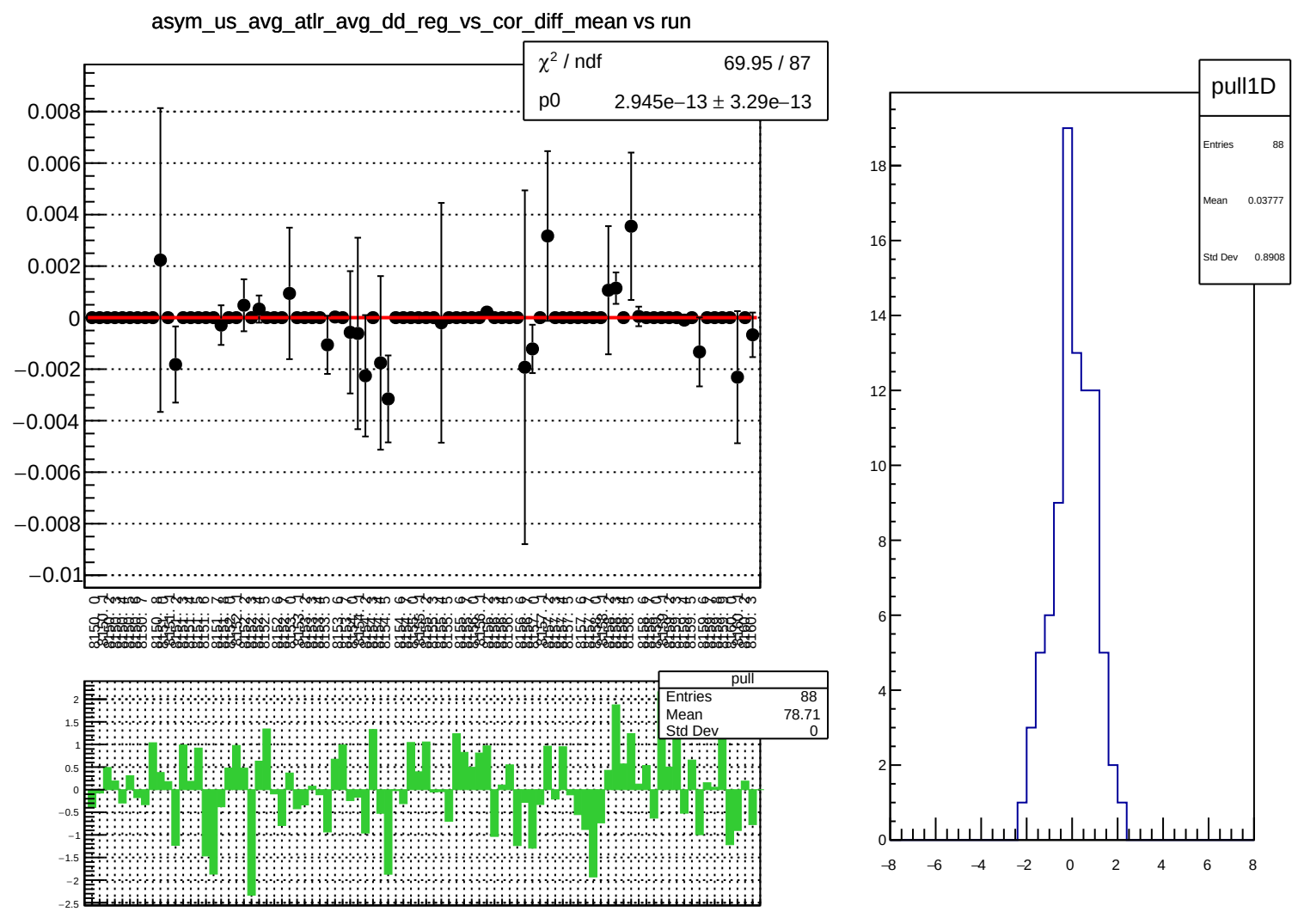

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 107 / 87
p0 8121 ± 5085
pull
Entries 88
Mean −3603
Std Dev 0
pull1D
Entries 88
Mean −0.0006553
Std Dev 1.102

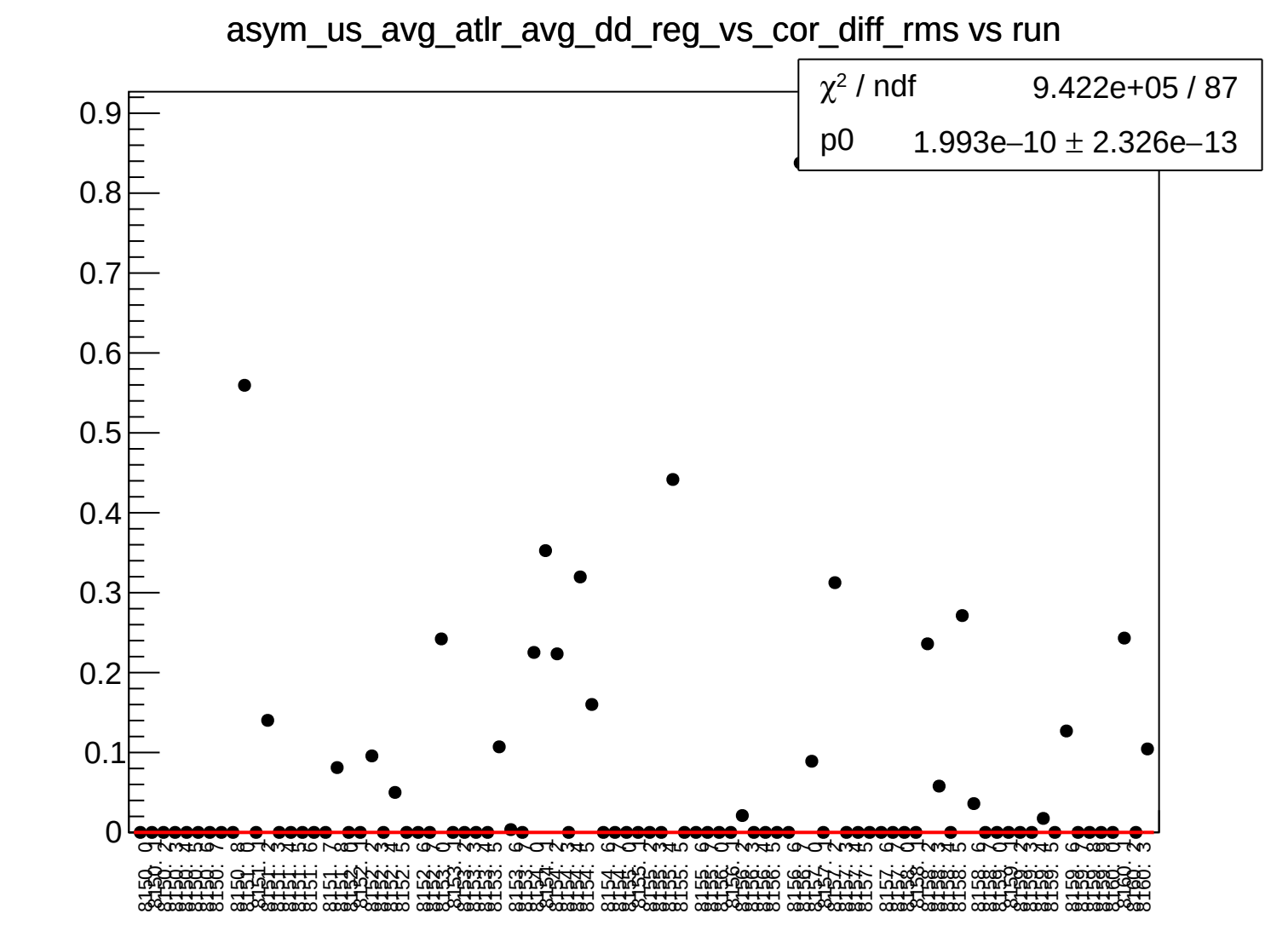

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2102 / 87
p0 4653 ± 3.596
5200
5000
4800
4600
4400
4200

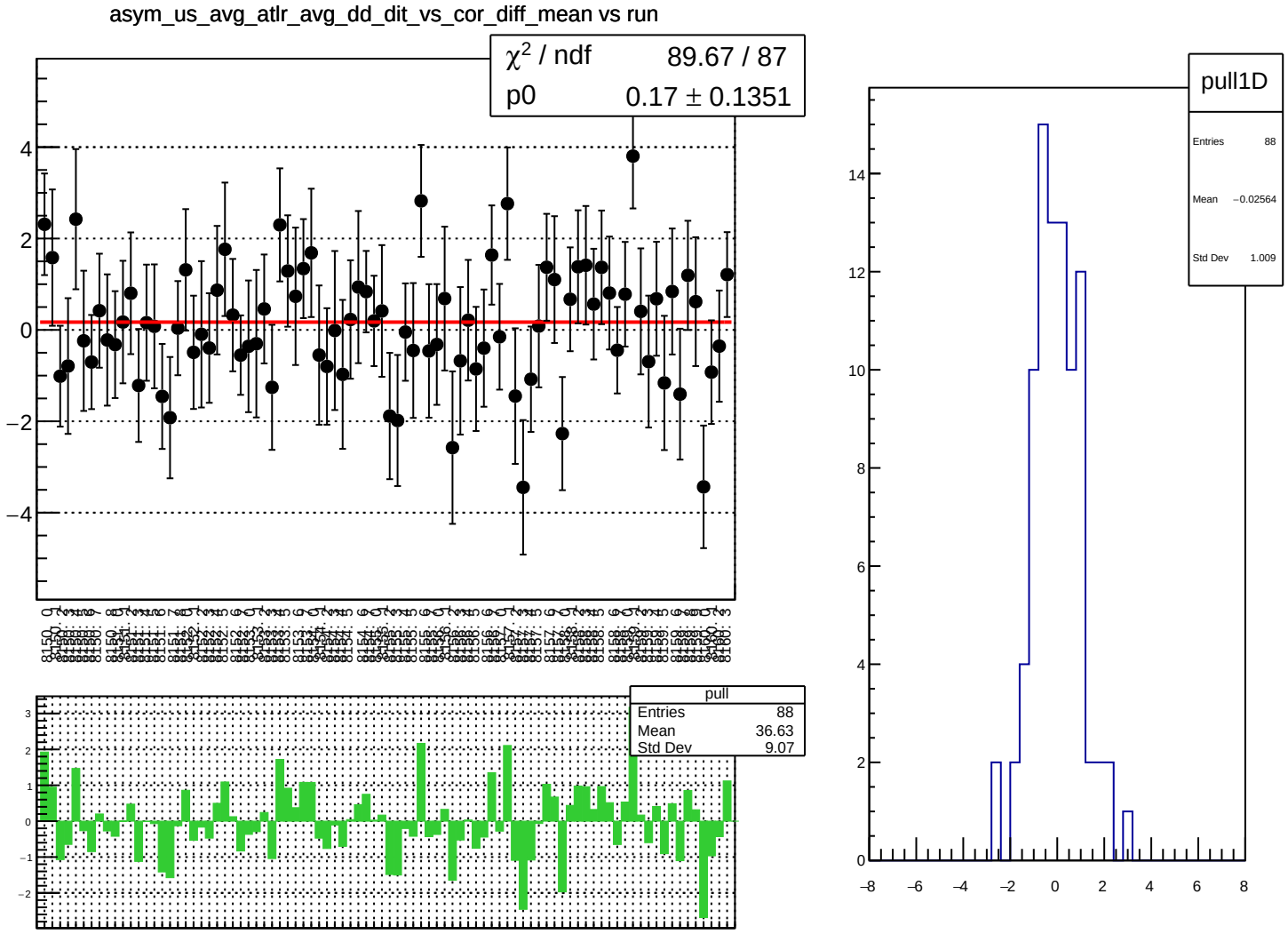

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 97.56 / 87
p0 −8986 ± 5215
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 1066
Std Dev 0
2
1
0
−1
−2

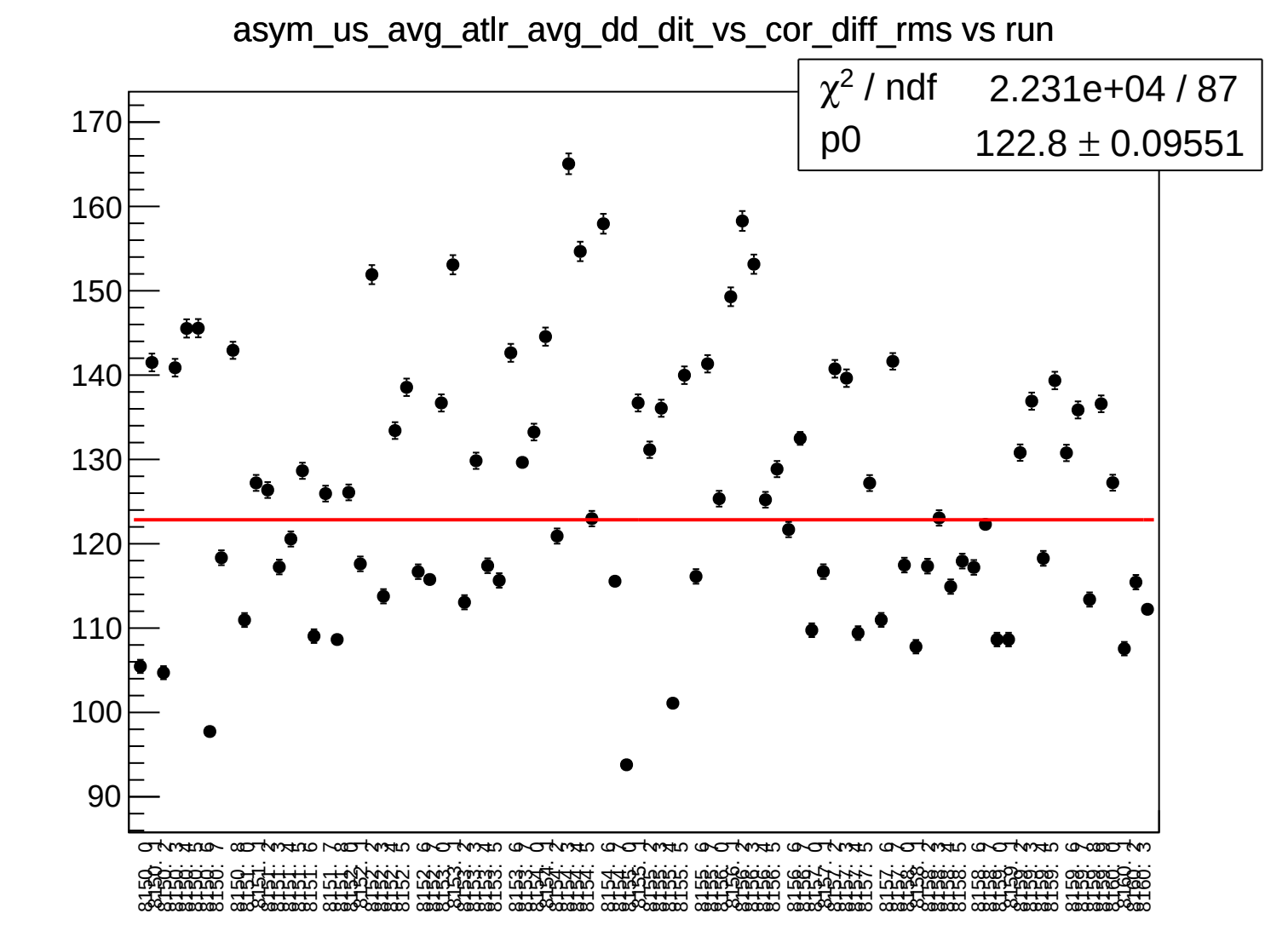

pull1D
Entries 88
Mean −0.002118
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

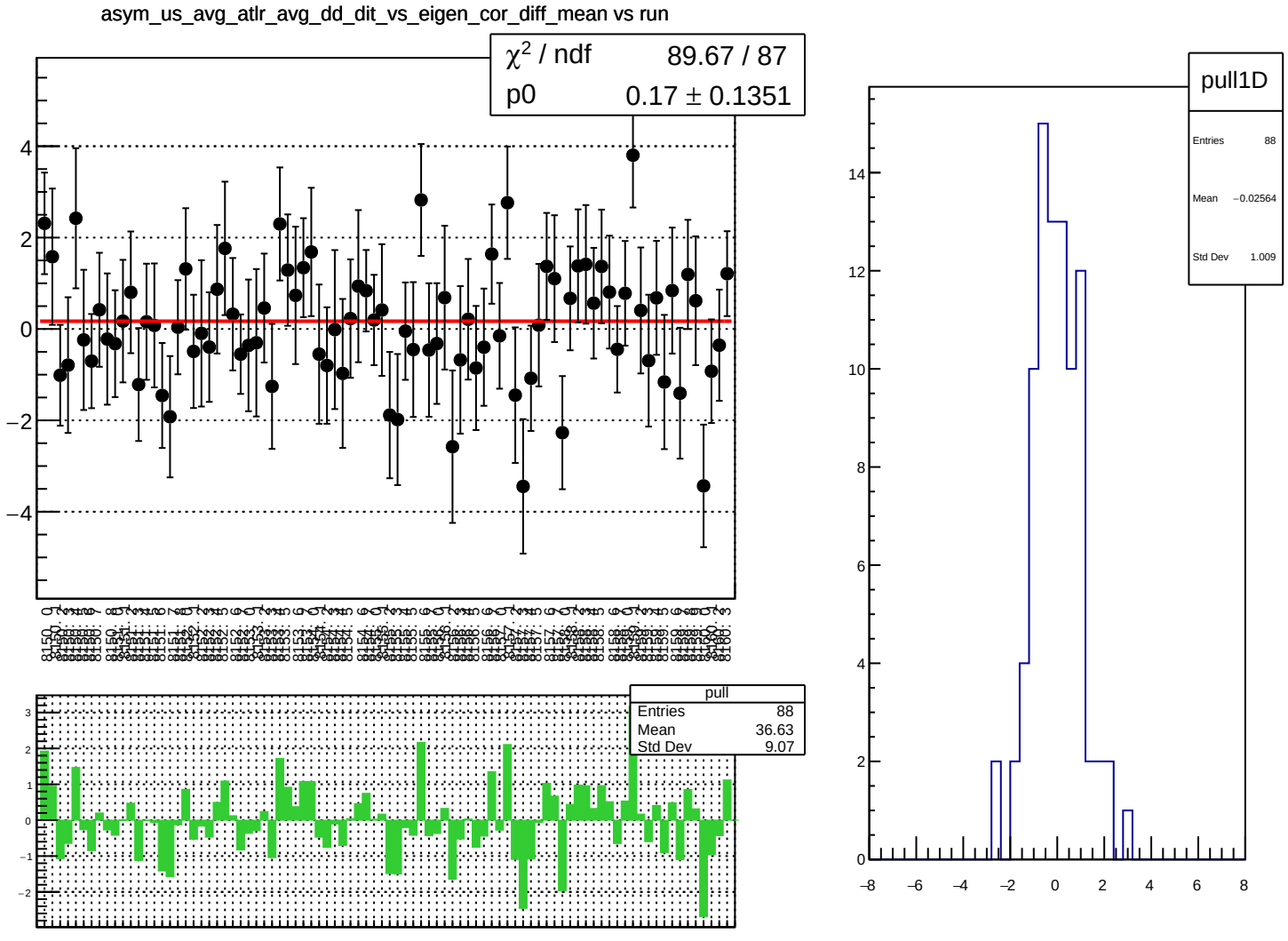

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1874 / 87
p0 4772 ± 3.688
5200
5000
4800
4600
4400

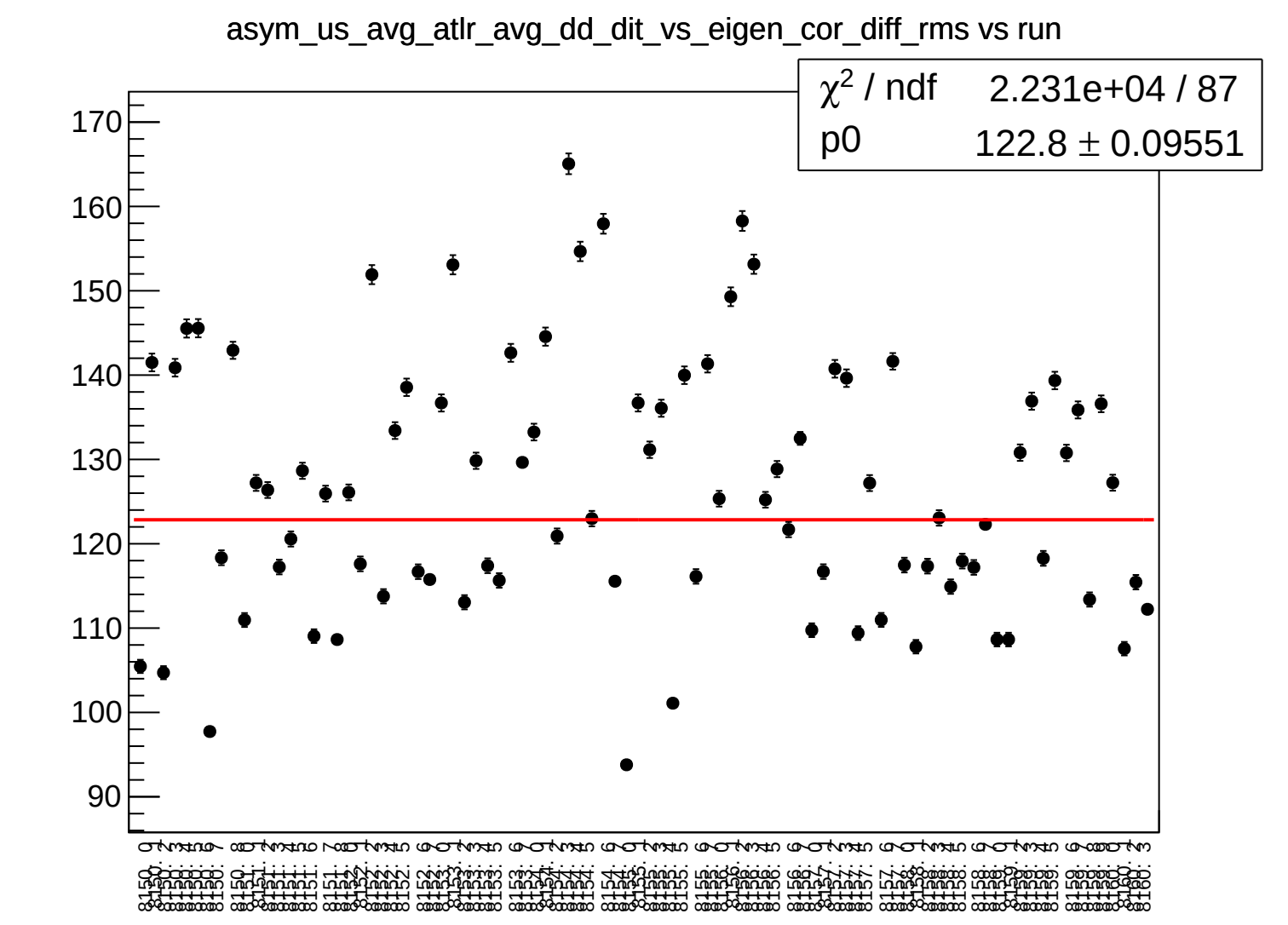

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 69.95 / 87
p0 2.945e−13 ± 3.29e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
pull
Entries 88
Mean 78.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean 0.03777
Std Dev 0.8908
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

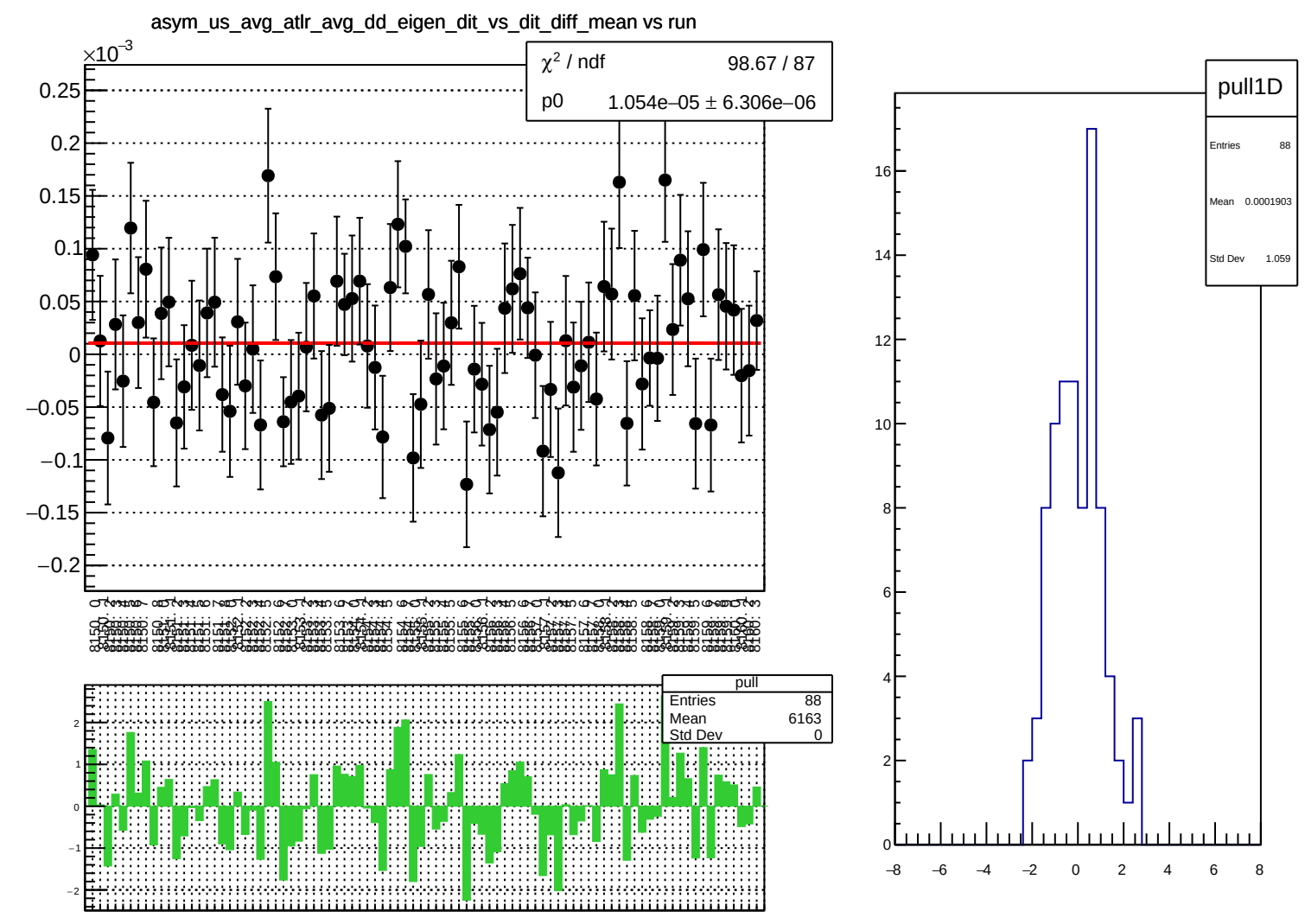

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.422e+05 / 87
p0 1.993e−10 ± 2.326e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

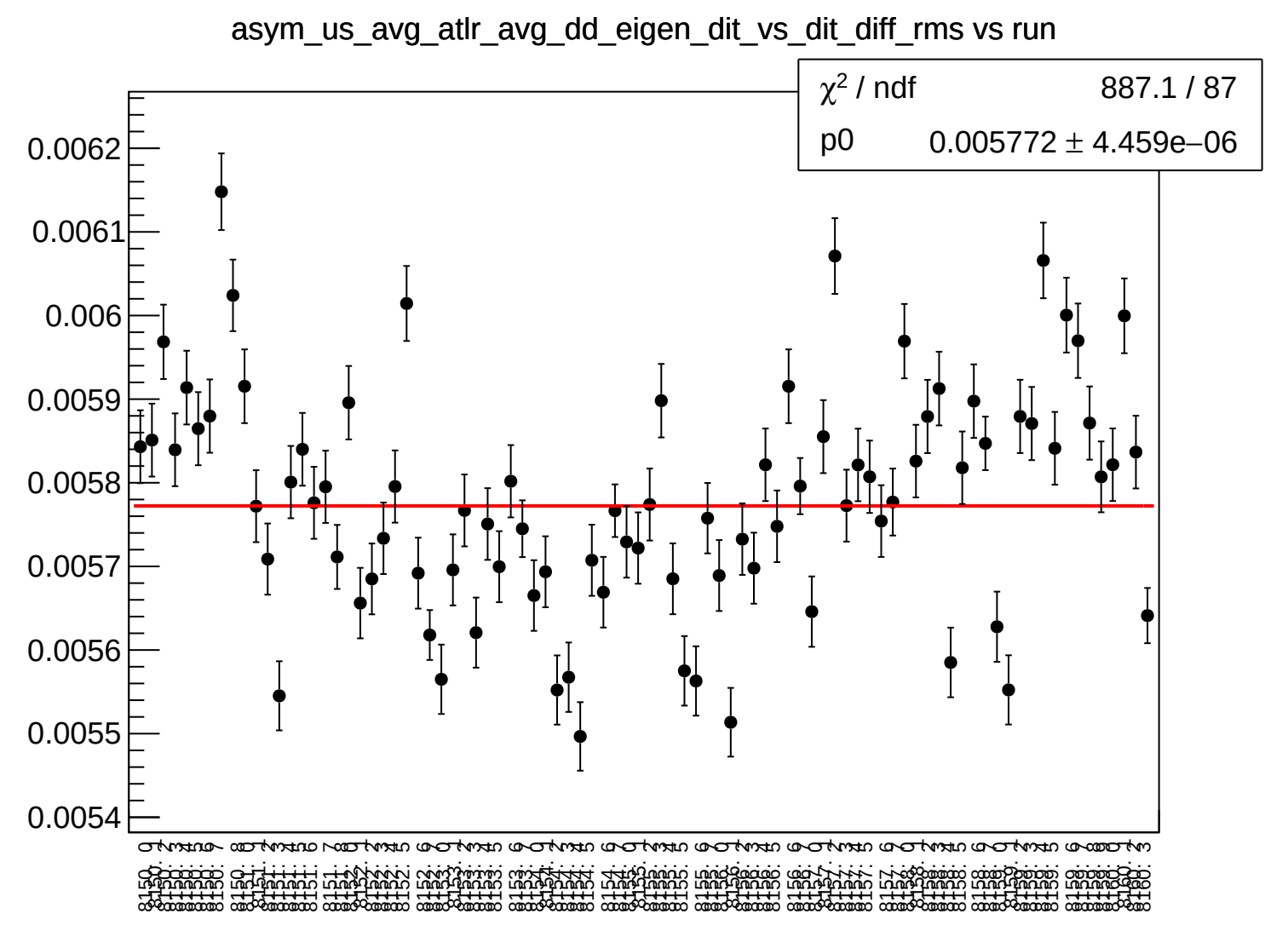

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.67 / 87
p0 0.17 ± 0.1351
pull
Entries 88
Mean 36.63
Std Dev 9.07
pull1D
Entries 88
Mean −0.02564
Std Dev 1.009

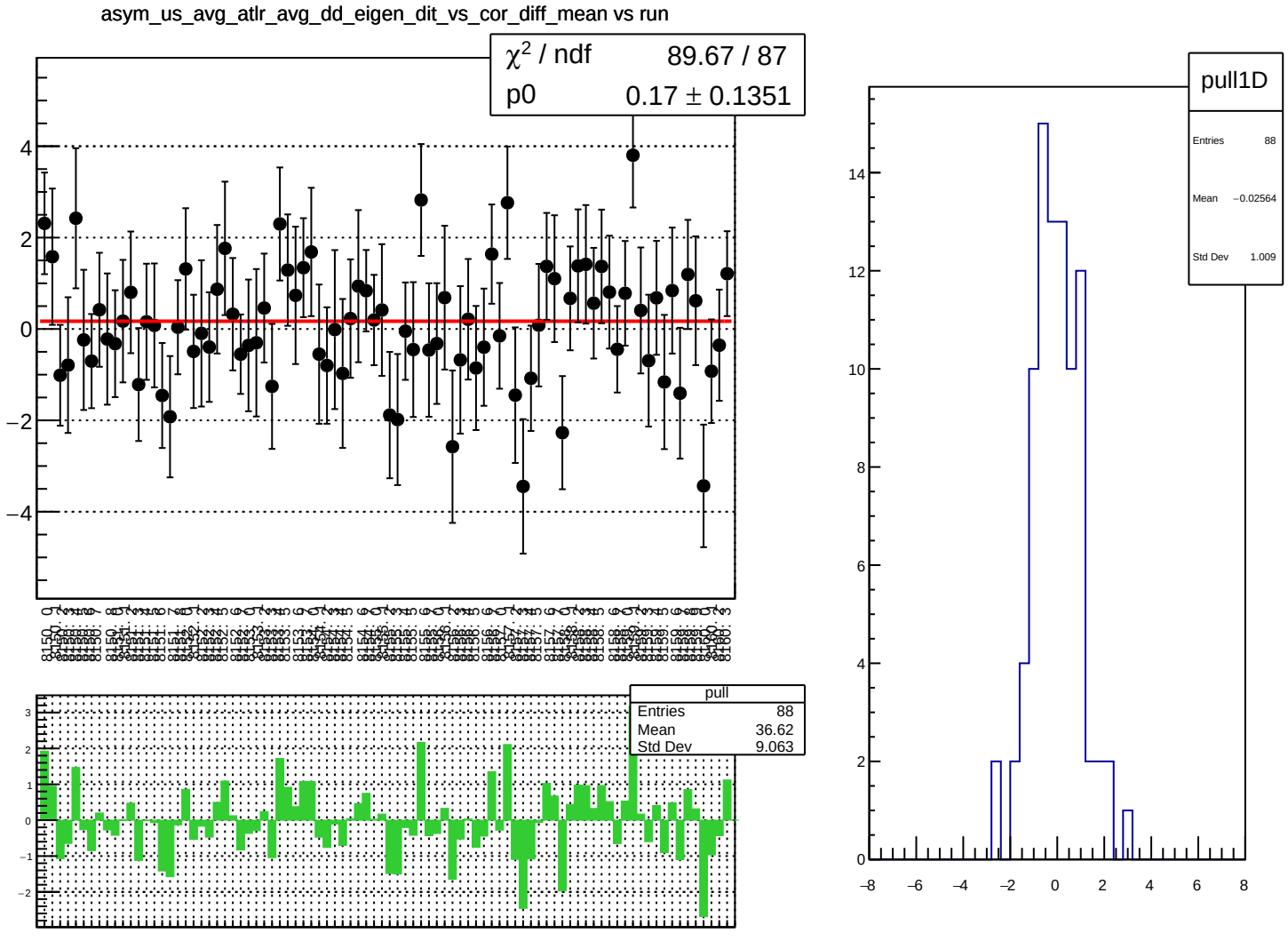

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.231e+04 / 87
p0 122.8 ± 0.09551
170
160
150
140
130
120
110
100
90

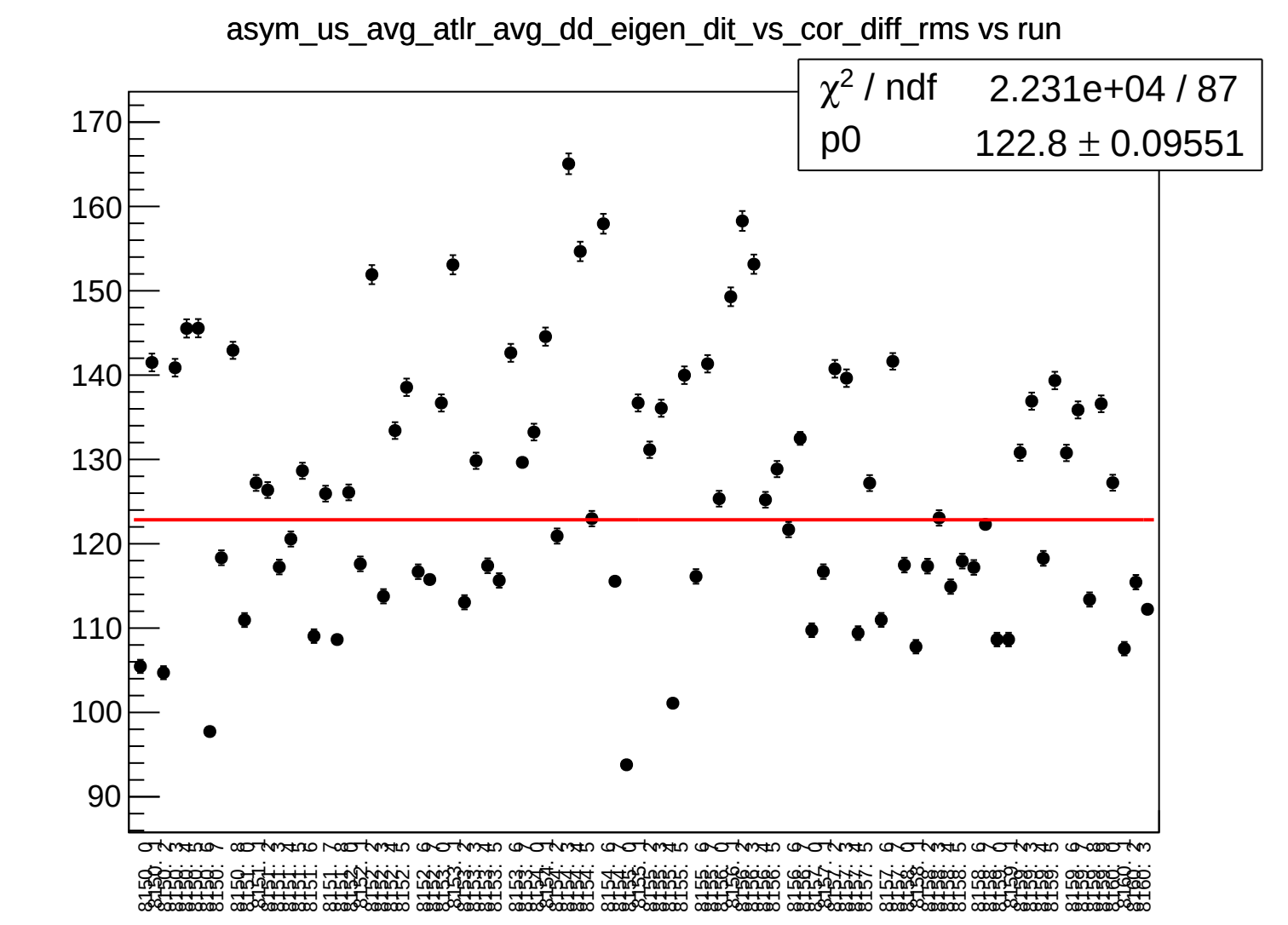

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.67 / 87
p0 0.17 ± 0.1351
pull
Entries 88
Mean 36.63
Std Dev 9.07
pull1D
Entries 88
Mean −0.02564
Std Dev 1.009

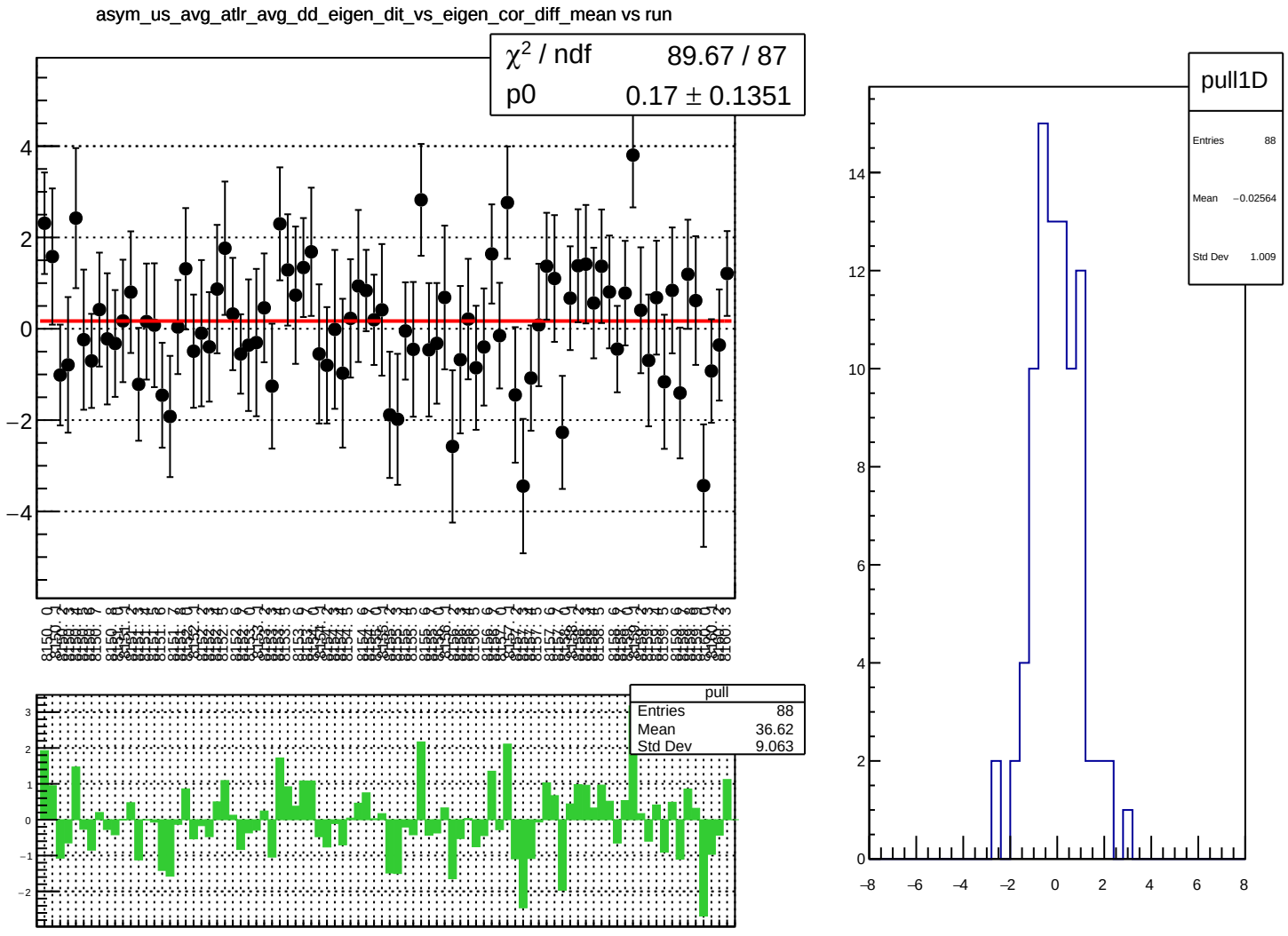

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.231e+04 / 87
p0 122.8 ± 0.09551
170
160
150
140
130
120
110
100
90

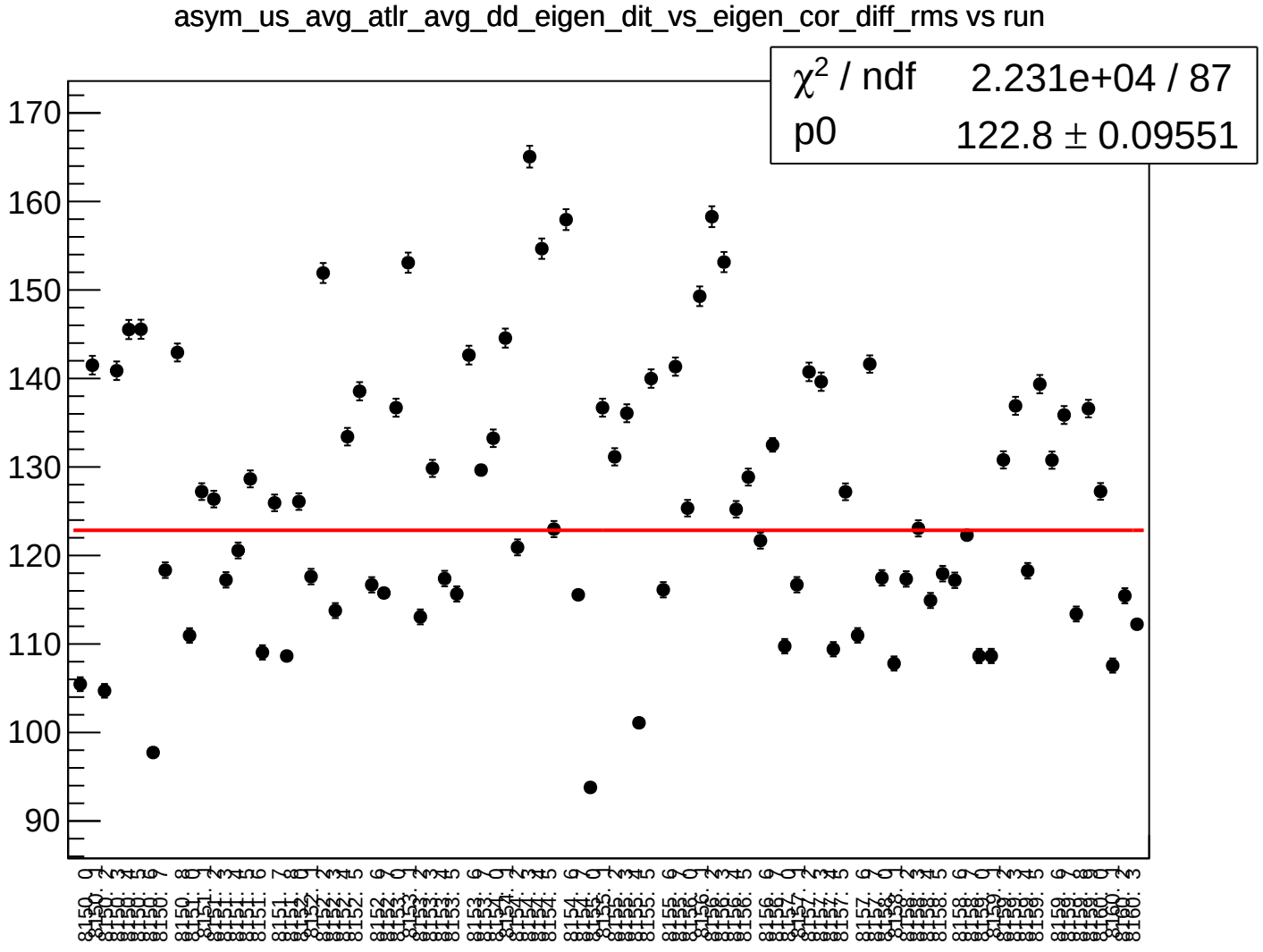

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.67 / 87
p0 1.054e−05 ± 6.306e−06
pull
Entries 88
Mean 6163
Std Dev 0
pull1D
Entries 88
Mean 0.0001903
Std Dev 1.059

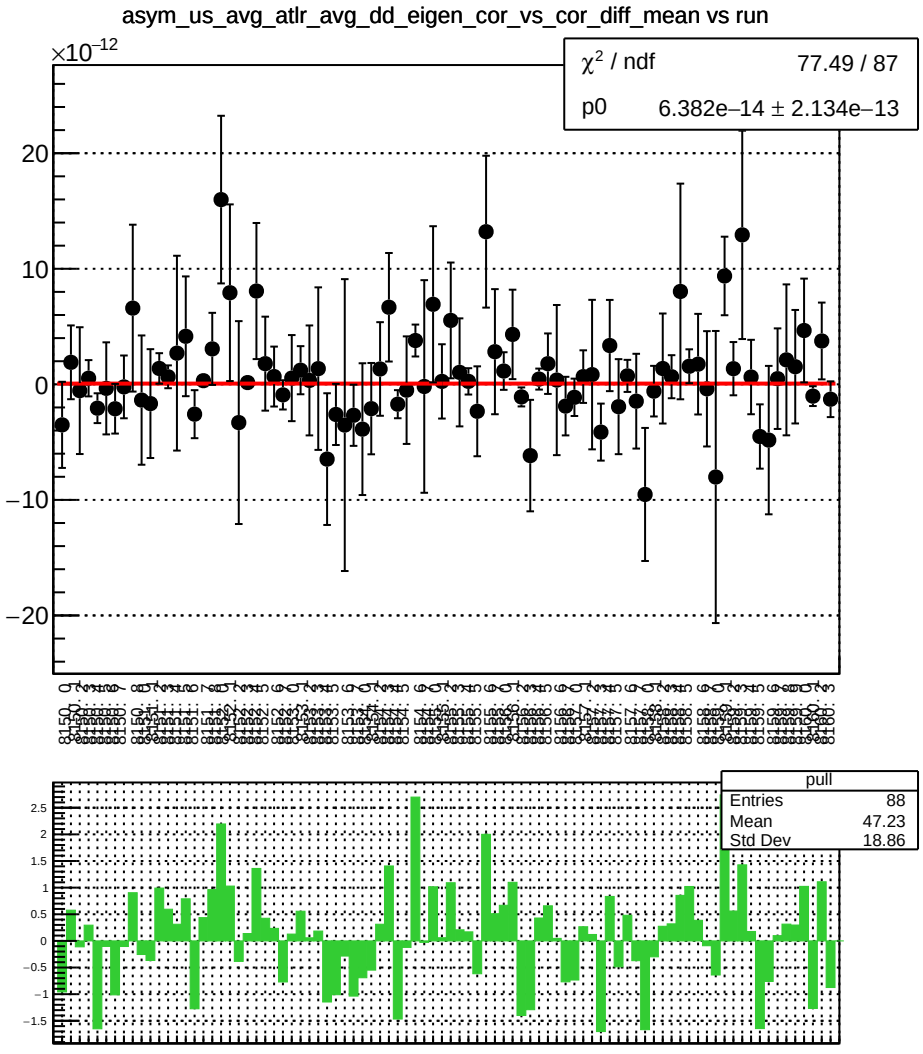

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 887.1 / 87
p0 0.005772 ± 4.459e−06
0.0062
0.0061
0.006
0.0059
0.0058
0.0057
0.0056
0.0055
0.0054

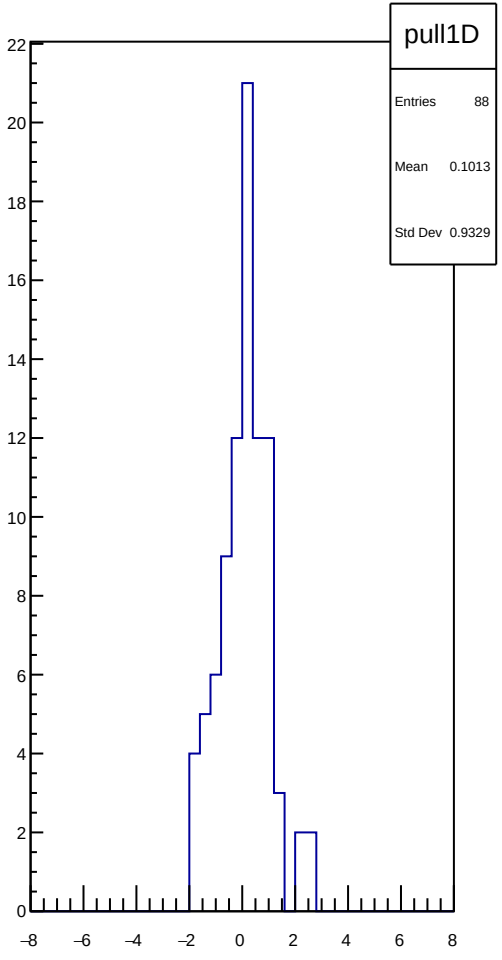

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.67 / 87
p0 0.17 ± 0.1351
pull
Entries 88
Mean 36.62
Std Dev 9.063
pull1D
Entries 88
Mean −0.02564
Std Dev 1.009

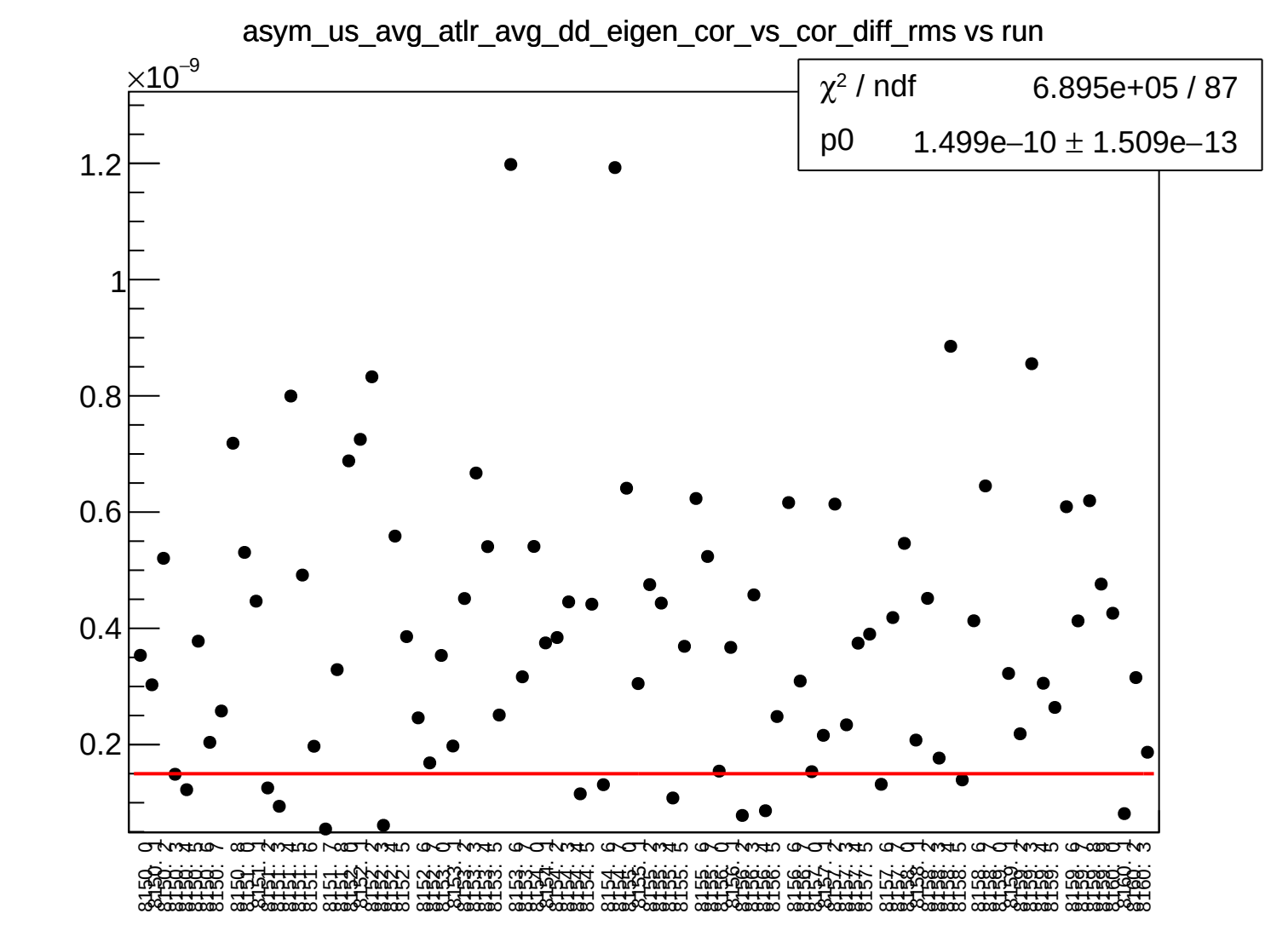

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.231e+04 / 87
p0 122.8 ± 0.09551
170
160
150
140
130
120
110
100
90

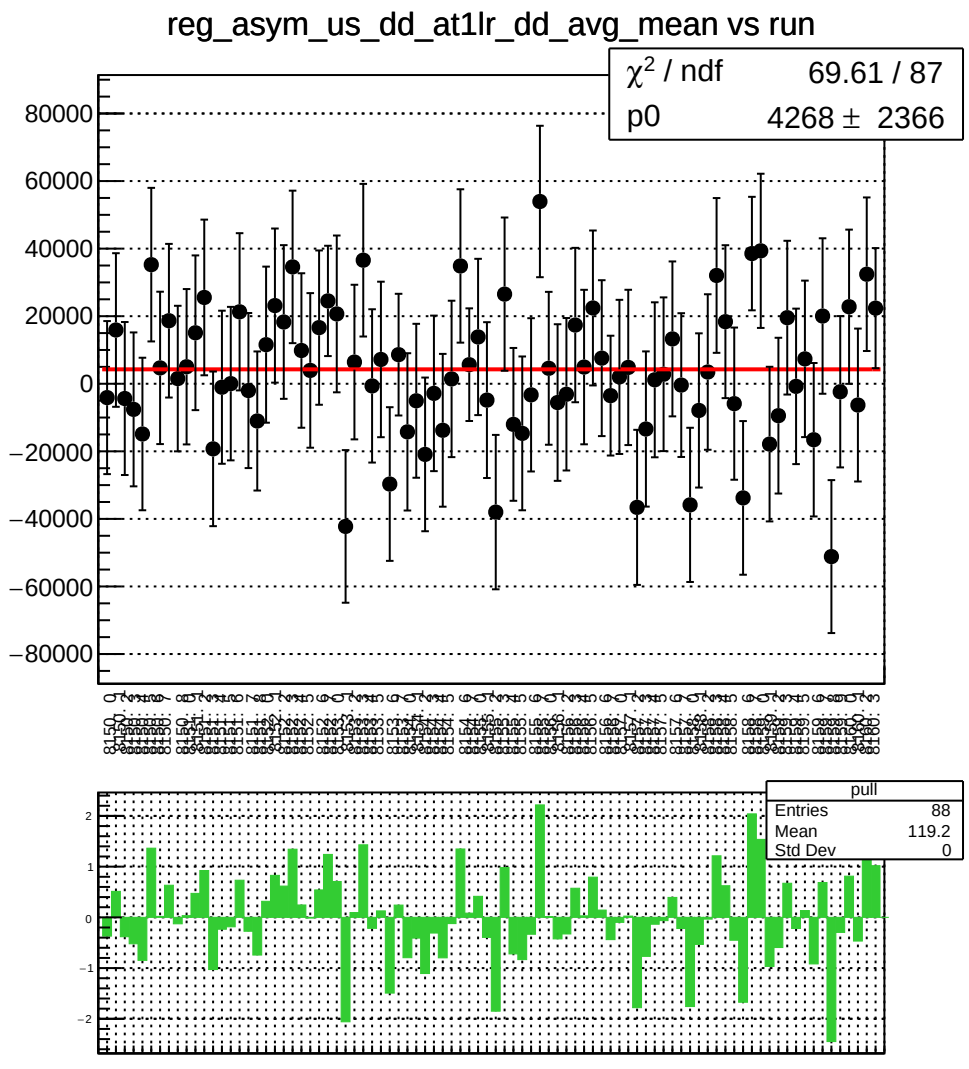

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.67 / 87
p0 0.17 ± 0.1351
pull
Entries 88
Mean 36.62
Std Dev 9.063
pull1D
Entries 88
Mean −0.02564
Std Dev 1.009

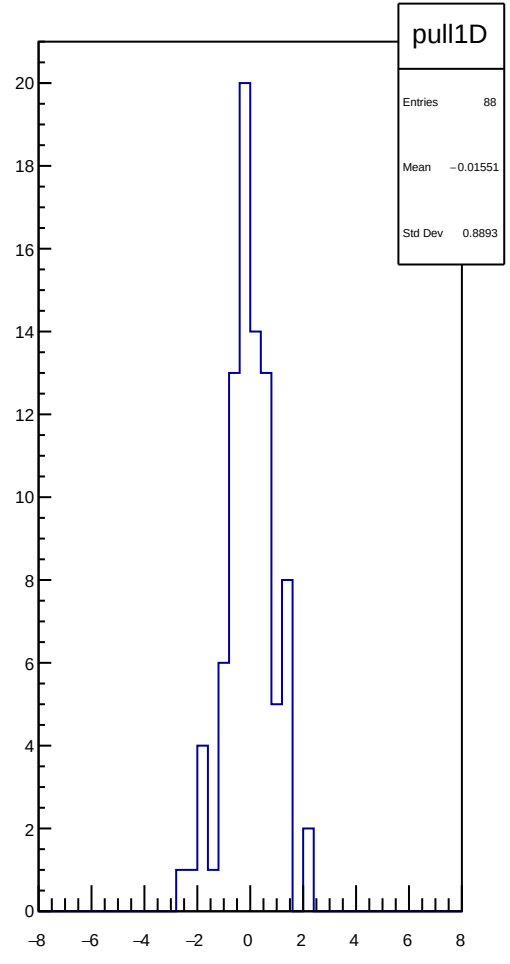

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.231e+04 / 87
p0 122.8 ± 0.09551
170
160
150
140
130
120
110
100
90

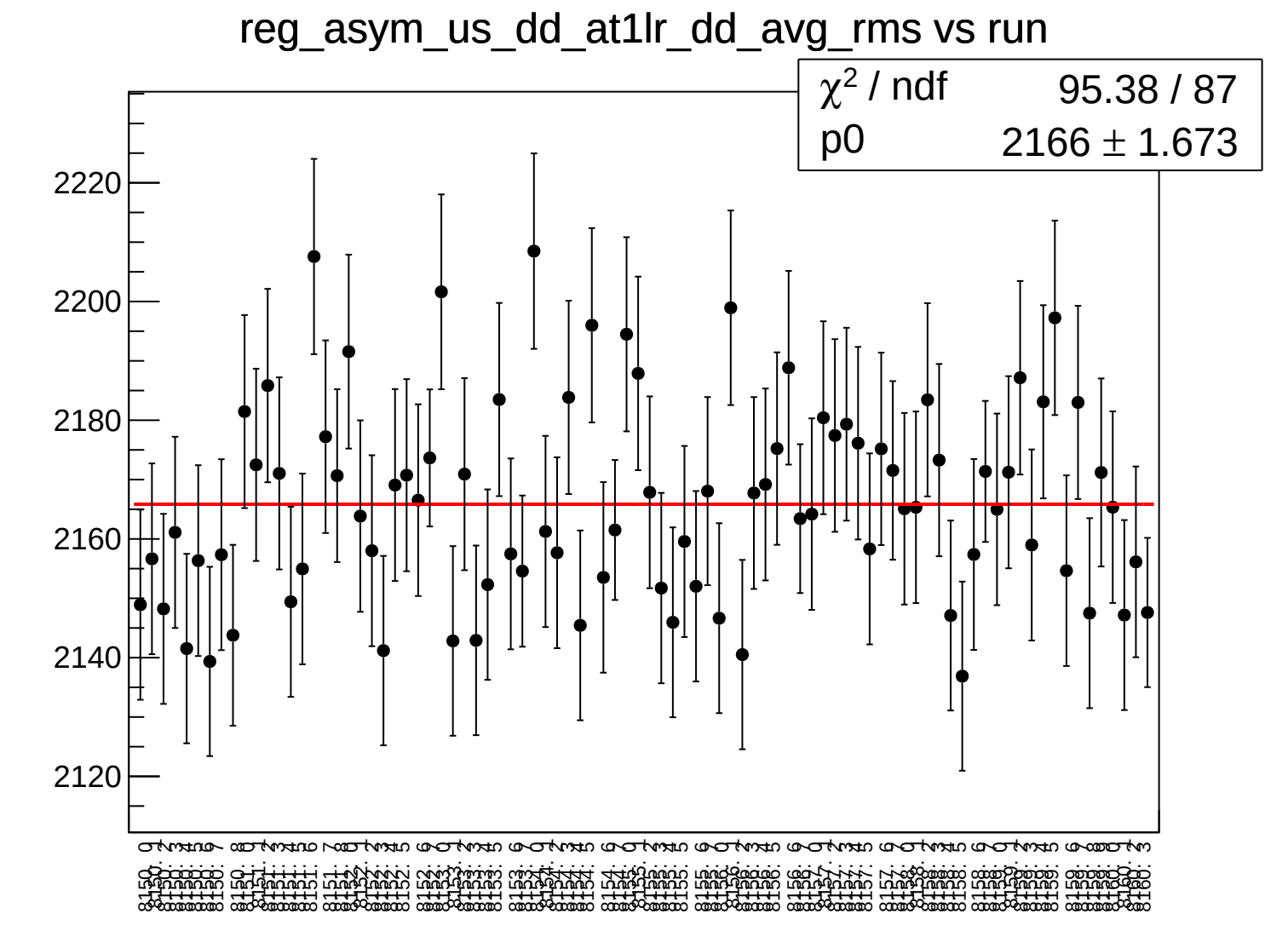

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.49 / 87
p0 6.382e−14 ± 2.134e−13
pull
Entries 88
Mean 47.23
Std Dev 18.86

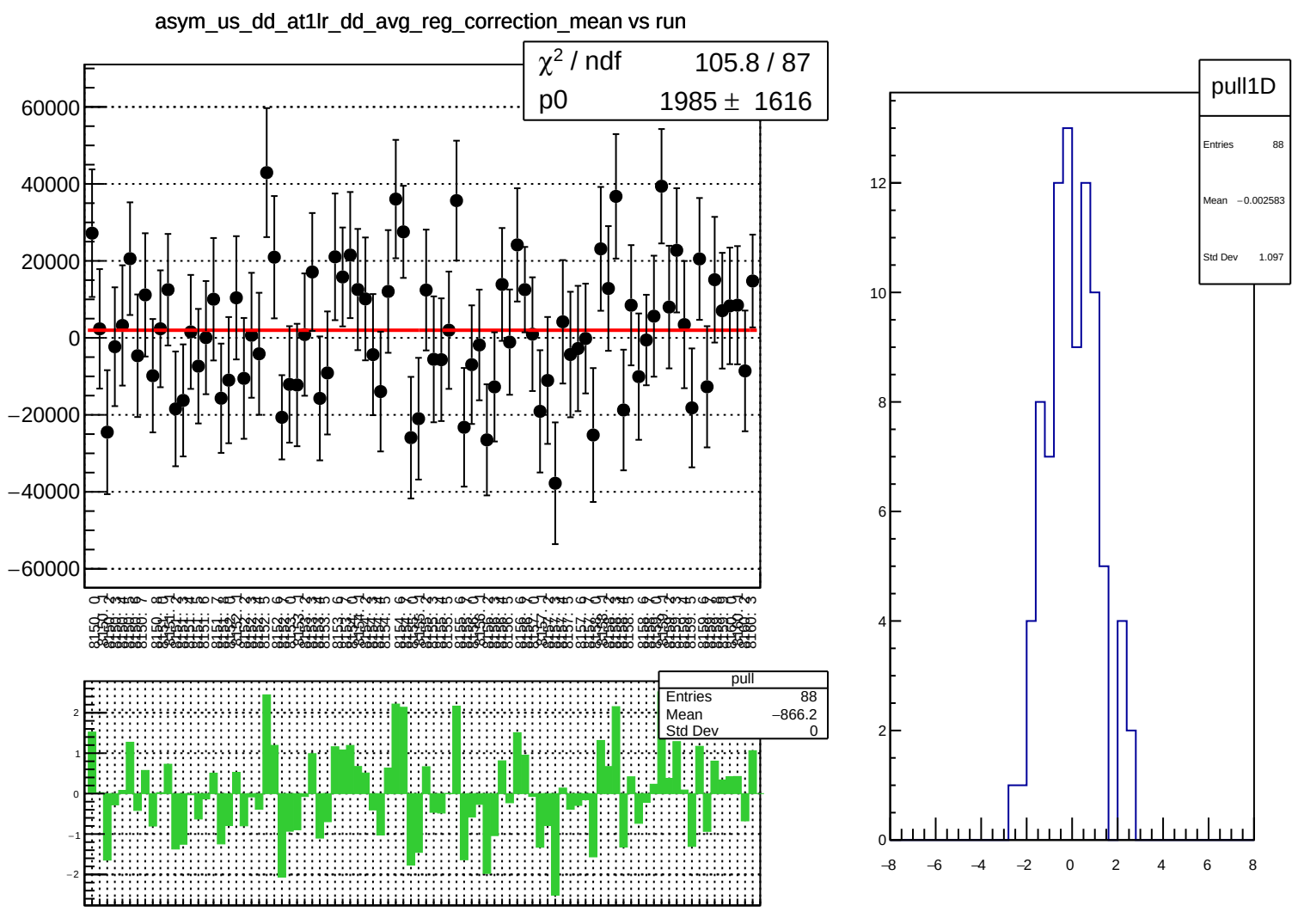

pull1D
Entries 88
Mean 0.1013
Std Dev 0.9329

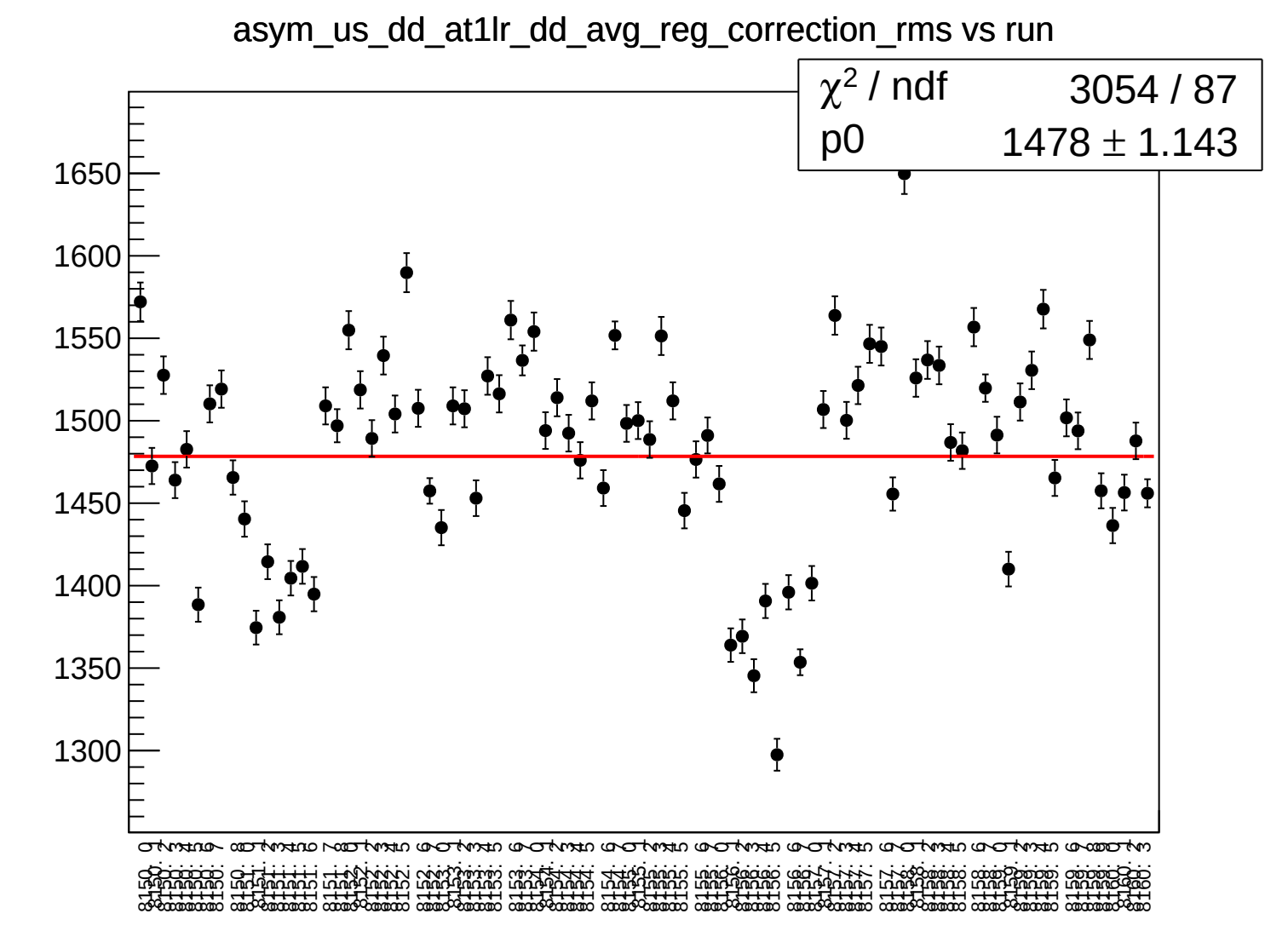

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.895e+05 / 87
p0 1.499e−10 ± 1.509e−13
1.2
1
0.8
0.6
0.4
0.2

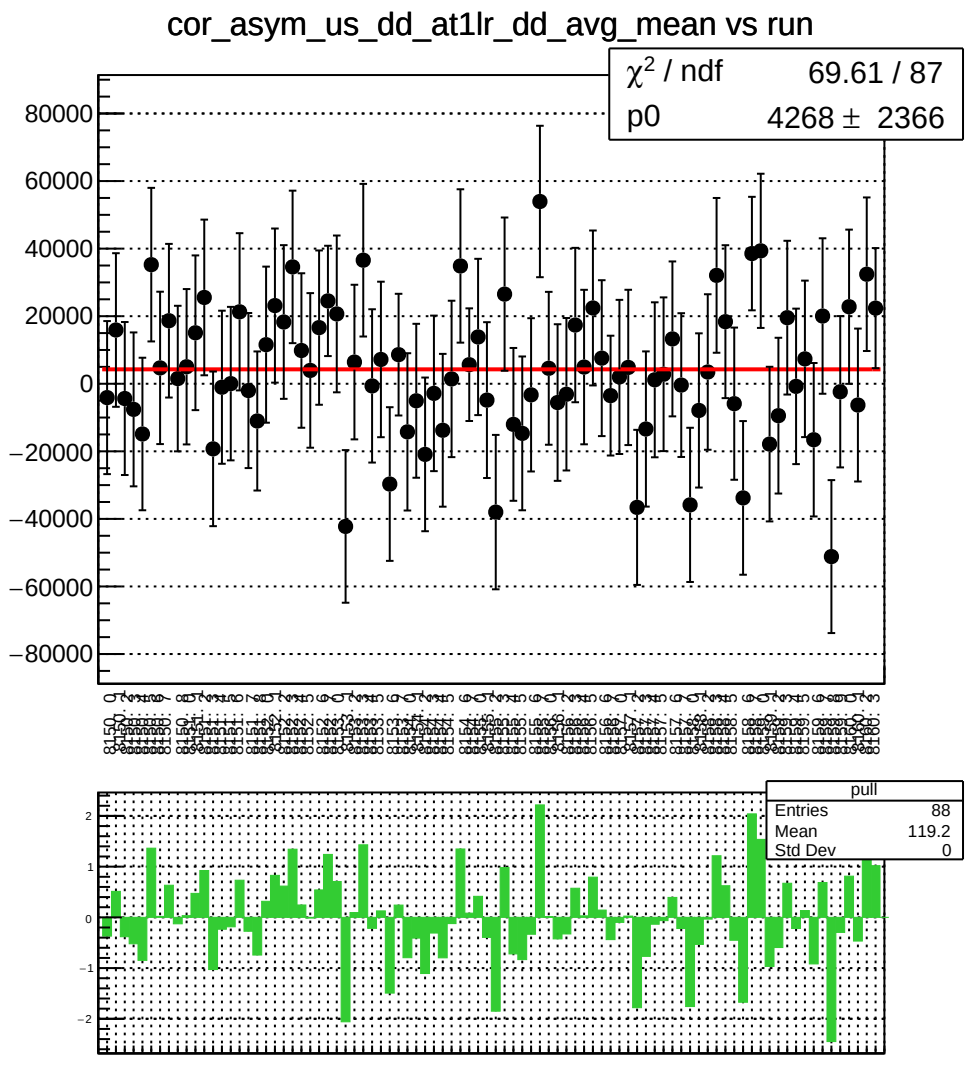

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 69.61 / 87
p0 4268 ± 2366
pull
Entries 88
Mean 119.2
Std Dev 0

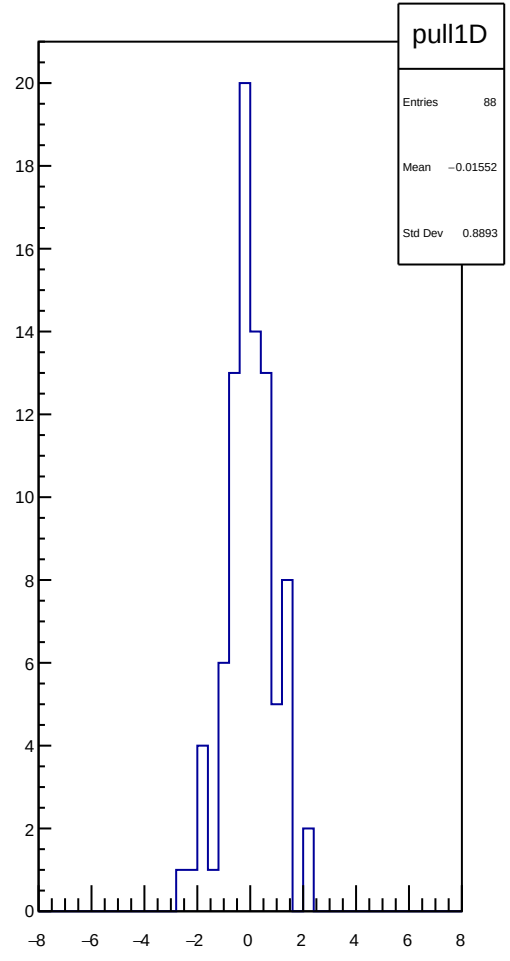

pull1D
Entries 88
Mean −0.01551
Std Dev 0.8893

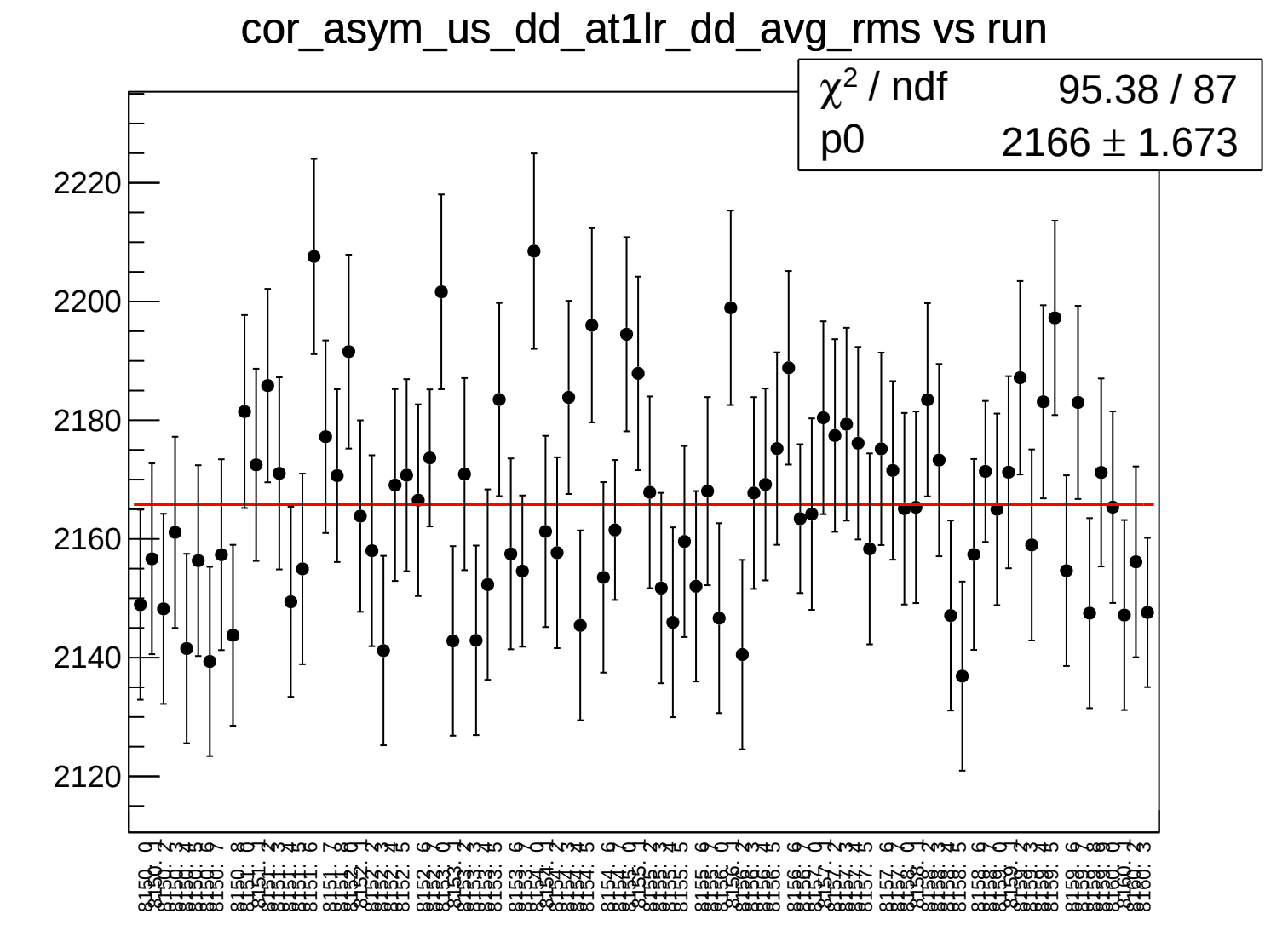

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 95.38 / 87
p0 2166 ± 1.673
2220
2200
2180
2160
2140
2120

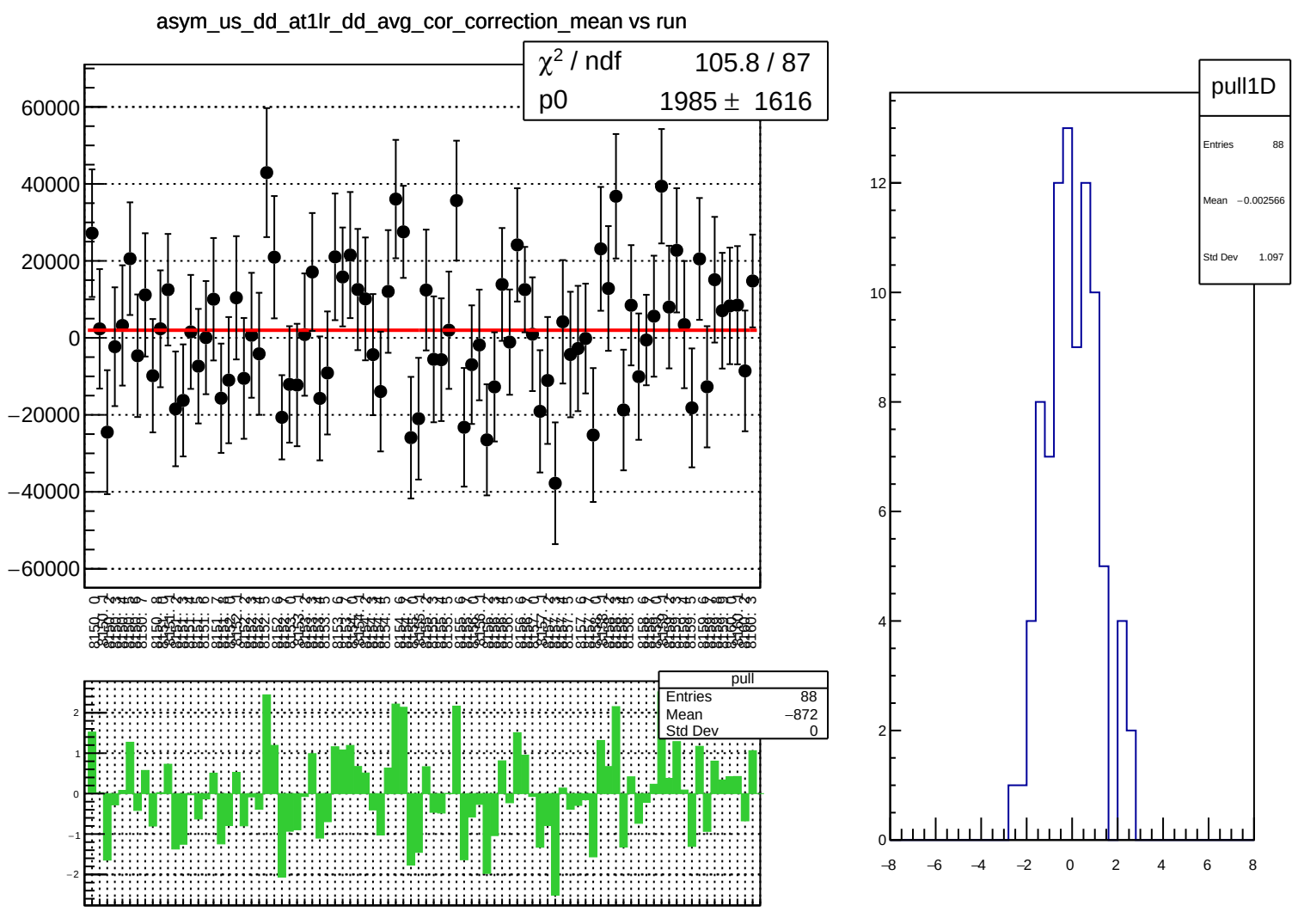

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 105.8 / 87
p0 1985 ± 1616
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −866.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002583
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

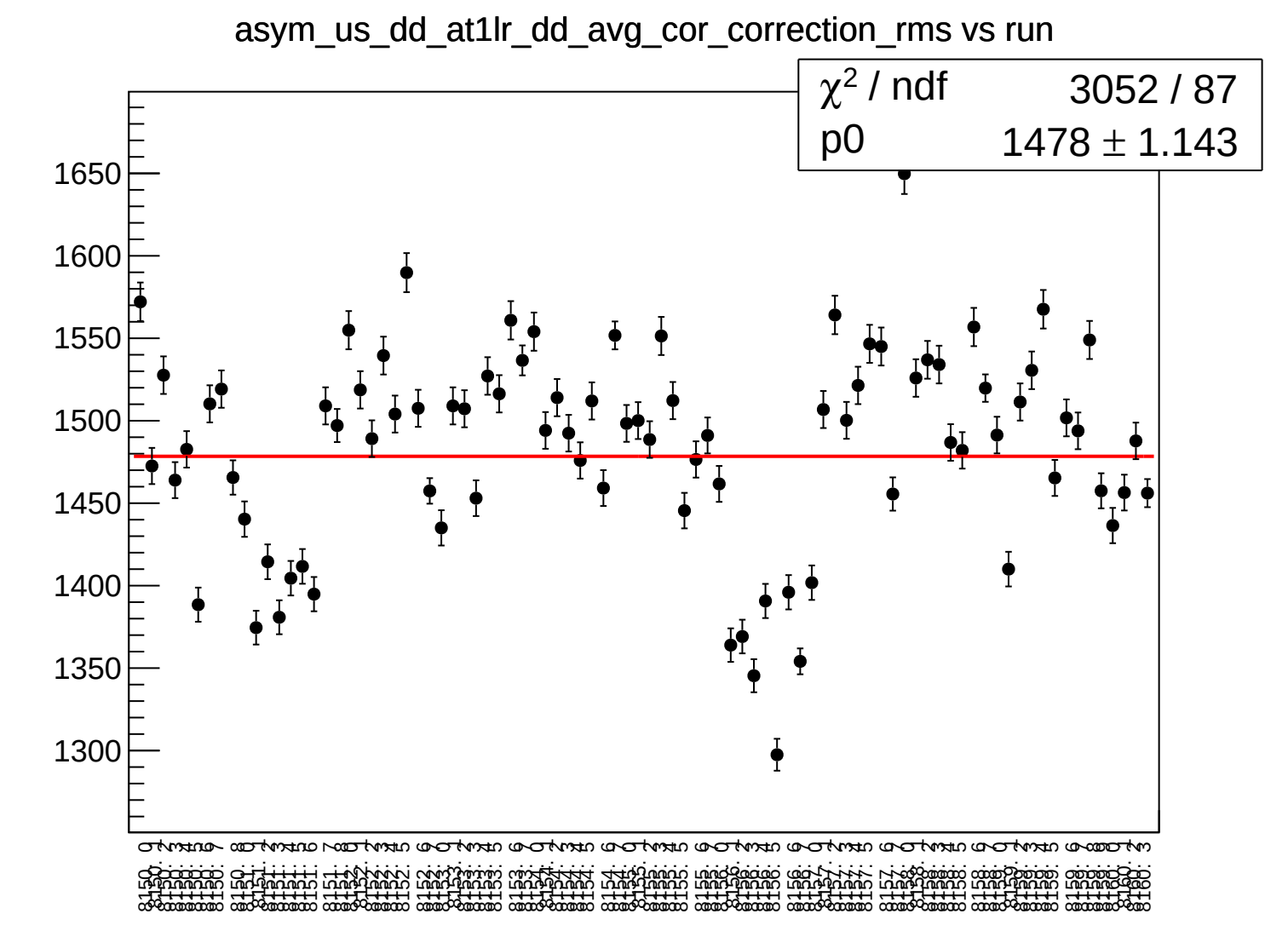

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 3054 / 87
p0 1478 ± 1.143
1650
1600
1550
1500
1450
1400
1350
1300

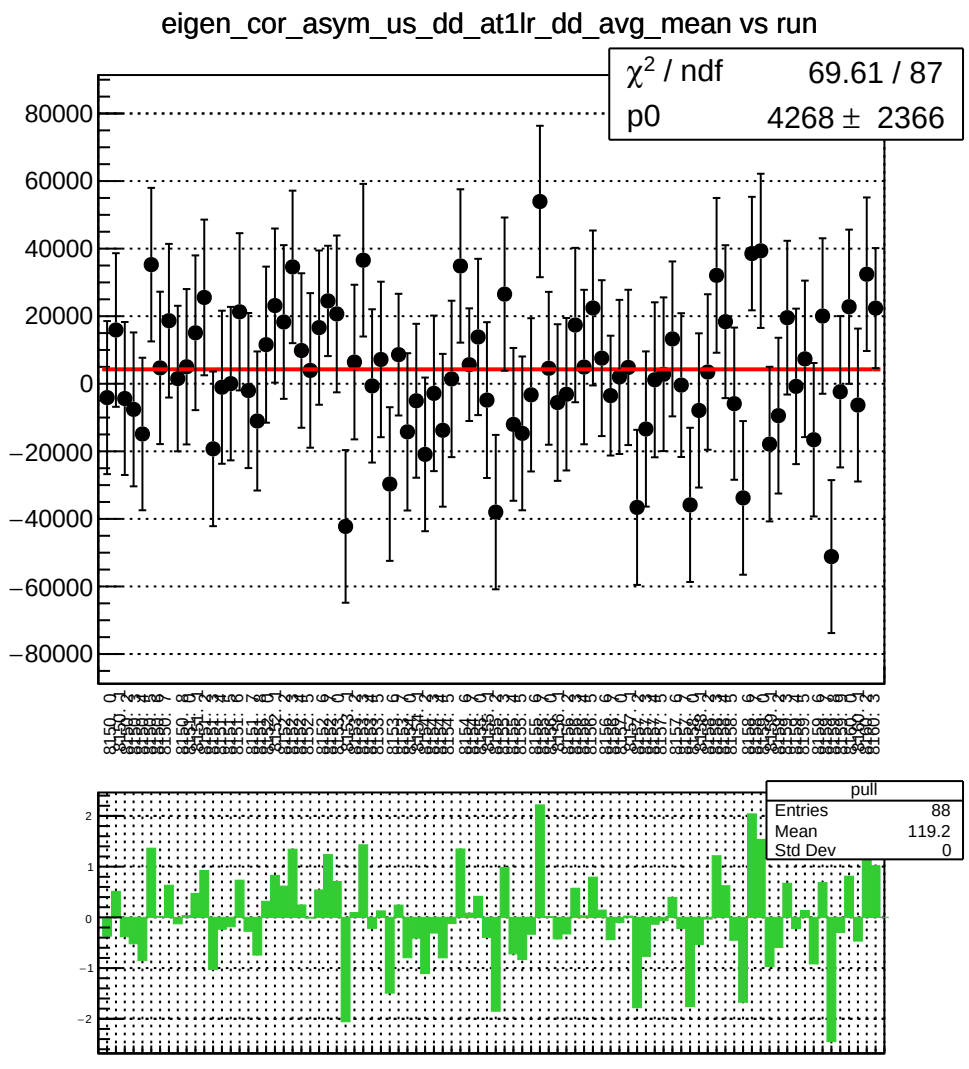

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 69.61 / 87
p0 4268 ± 2366
pull
Entries 88
Mean 119.2
Std Dev 0

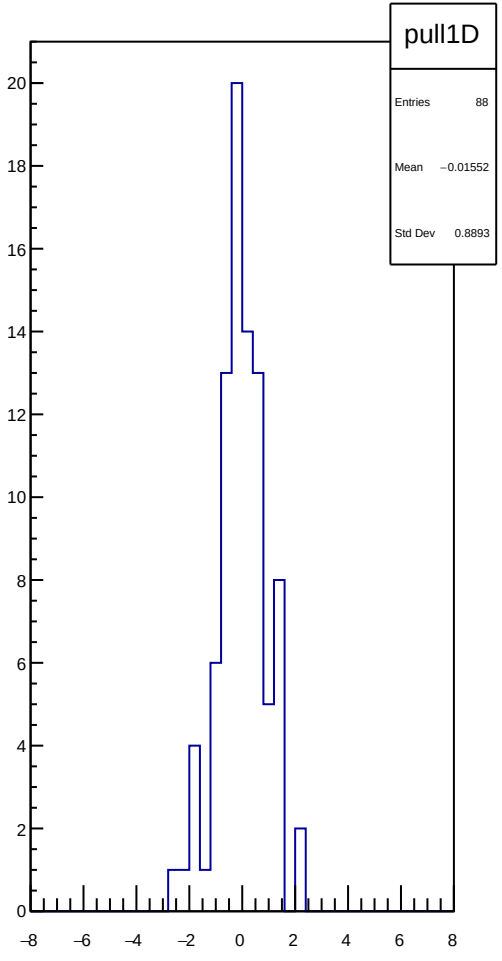

pull1D
Entries 88
Mean −0.01552
Std Dev 0.8893

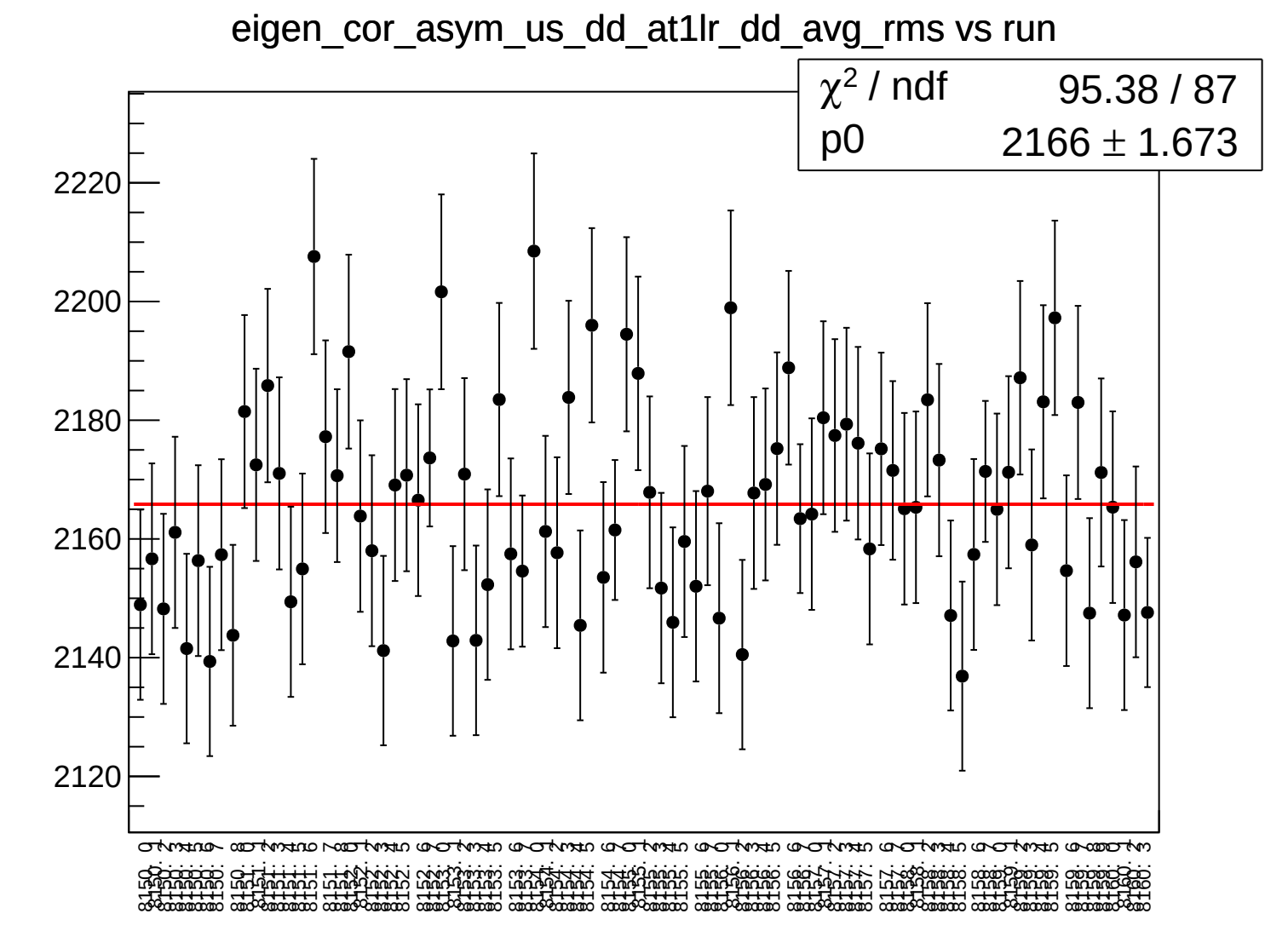

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 95.38 / 87
p0 2166 ± 1.673
2220
2200
2180
2160
2140
2120

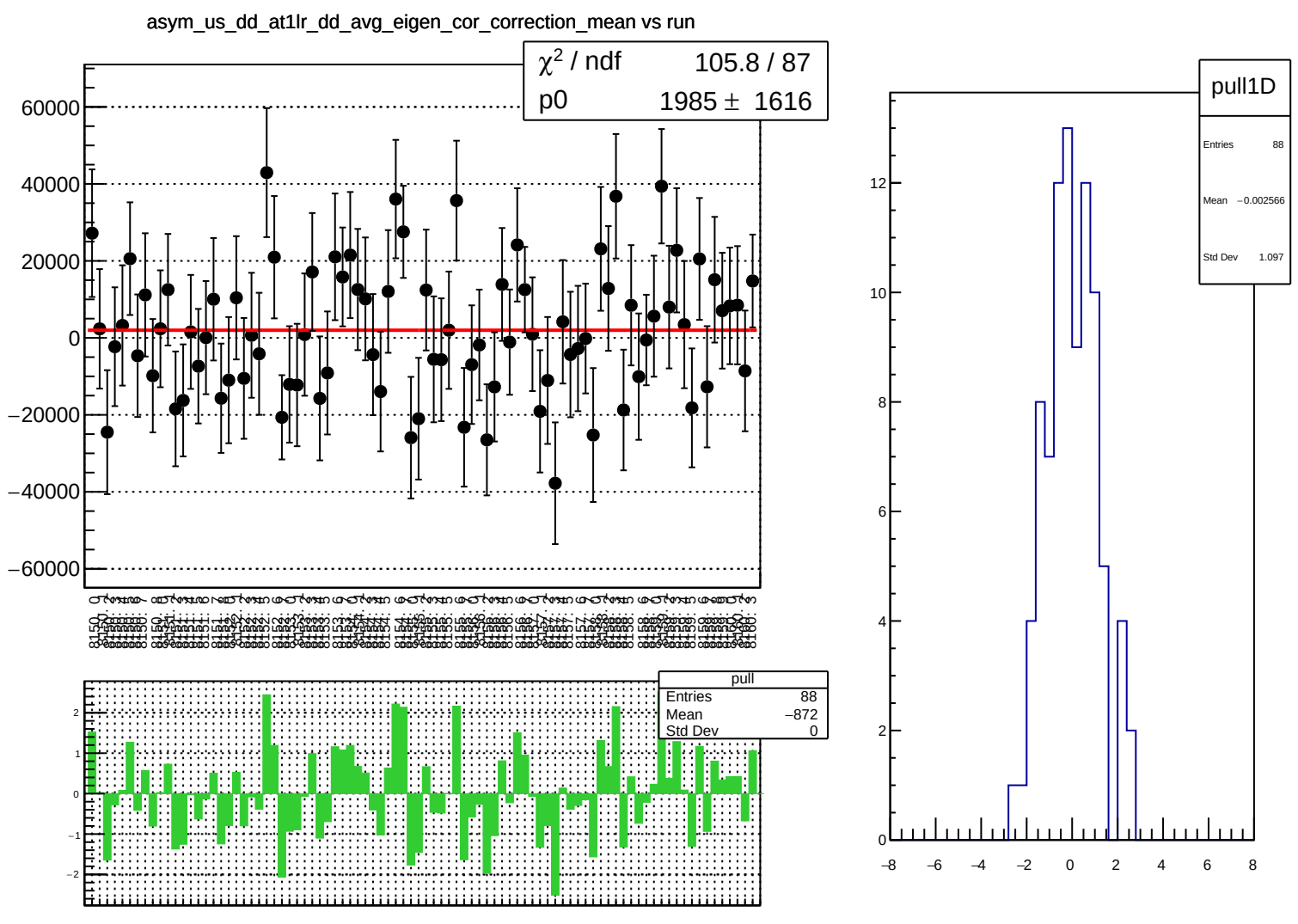

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 105.8 / 87
p0 1985 ± 1616
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −872
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002566
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

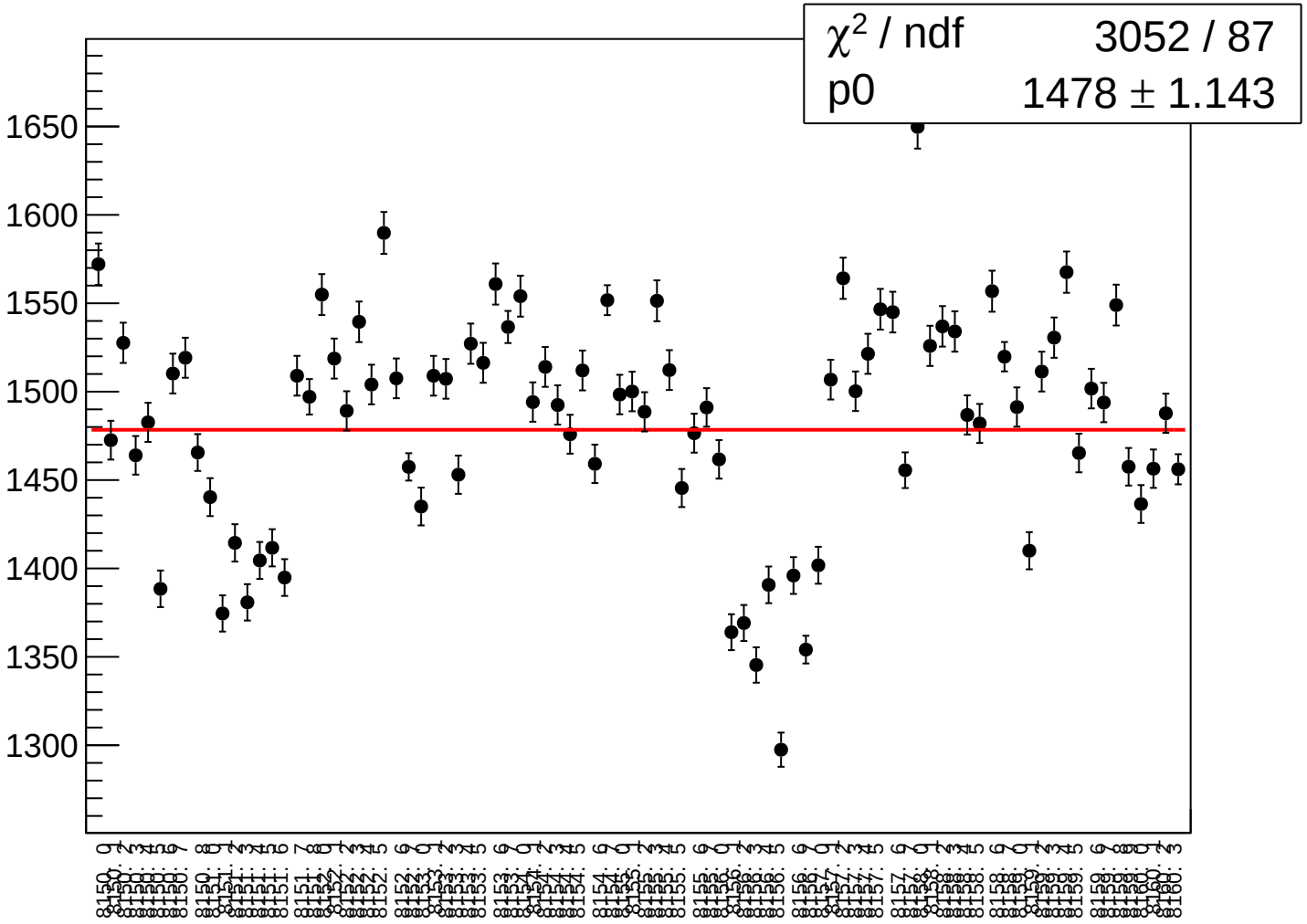

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 3052 / 87
p0 1478 ± 1.143
1650
1600
1550
1500
1450
1400
1350
1300

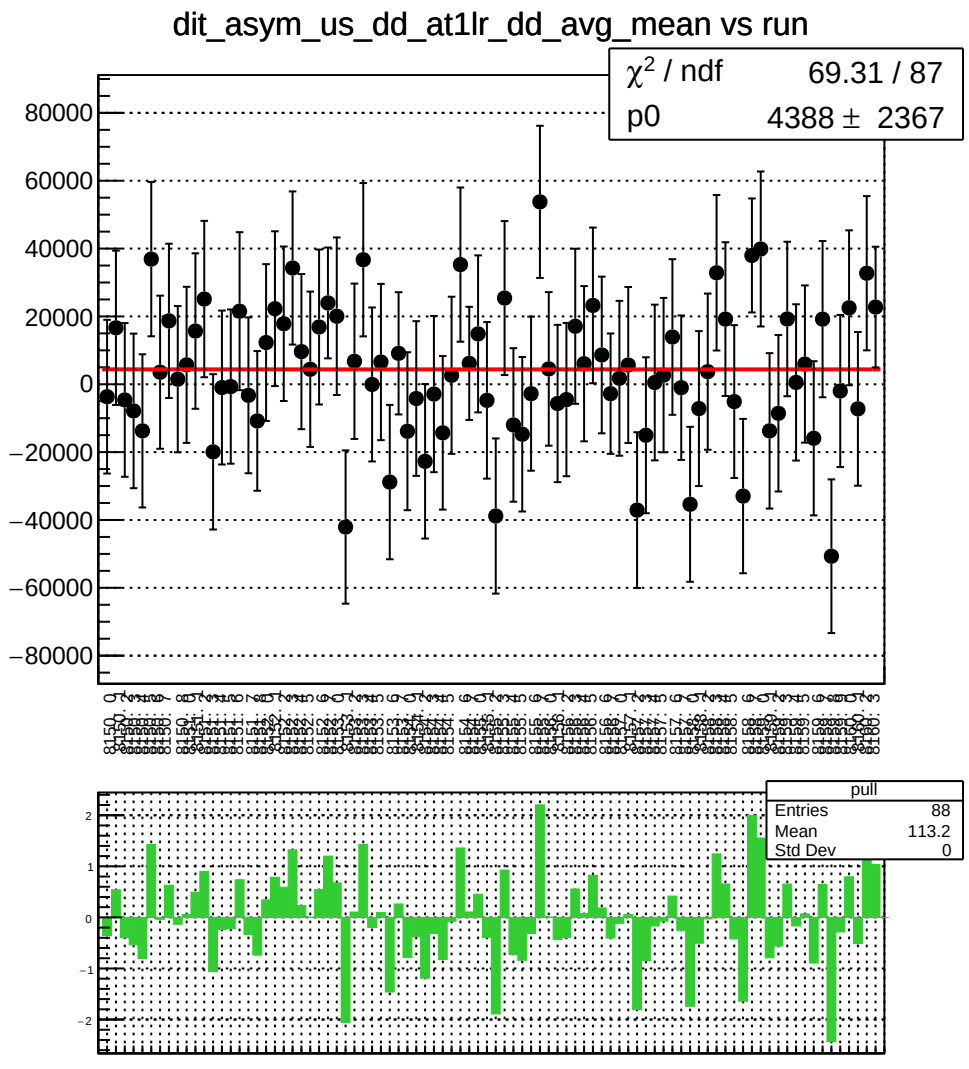

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 69.61 / 87
p0 4268 ± 2366
pull
Entries 88
Mean 119.2
Std Dev 0

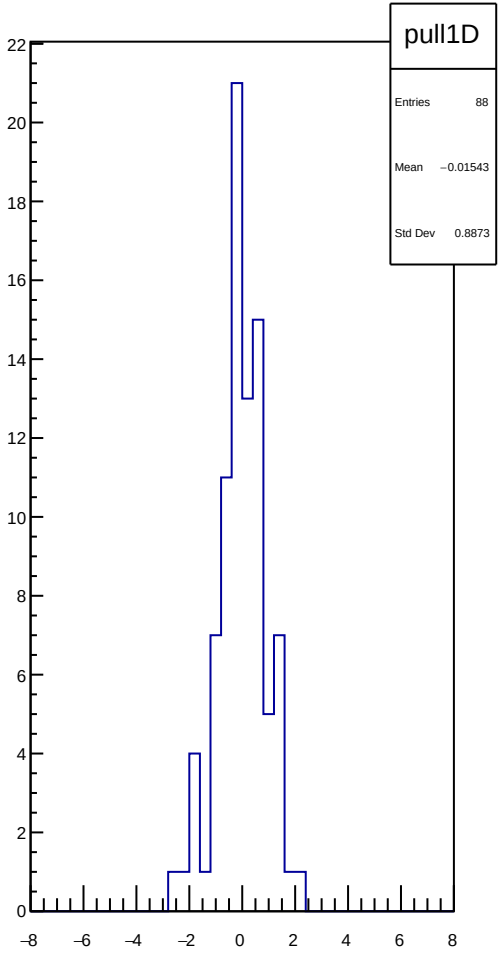

pull1D
Entries 88
Mean −0.01552
Std Dev 0.8893

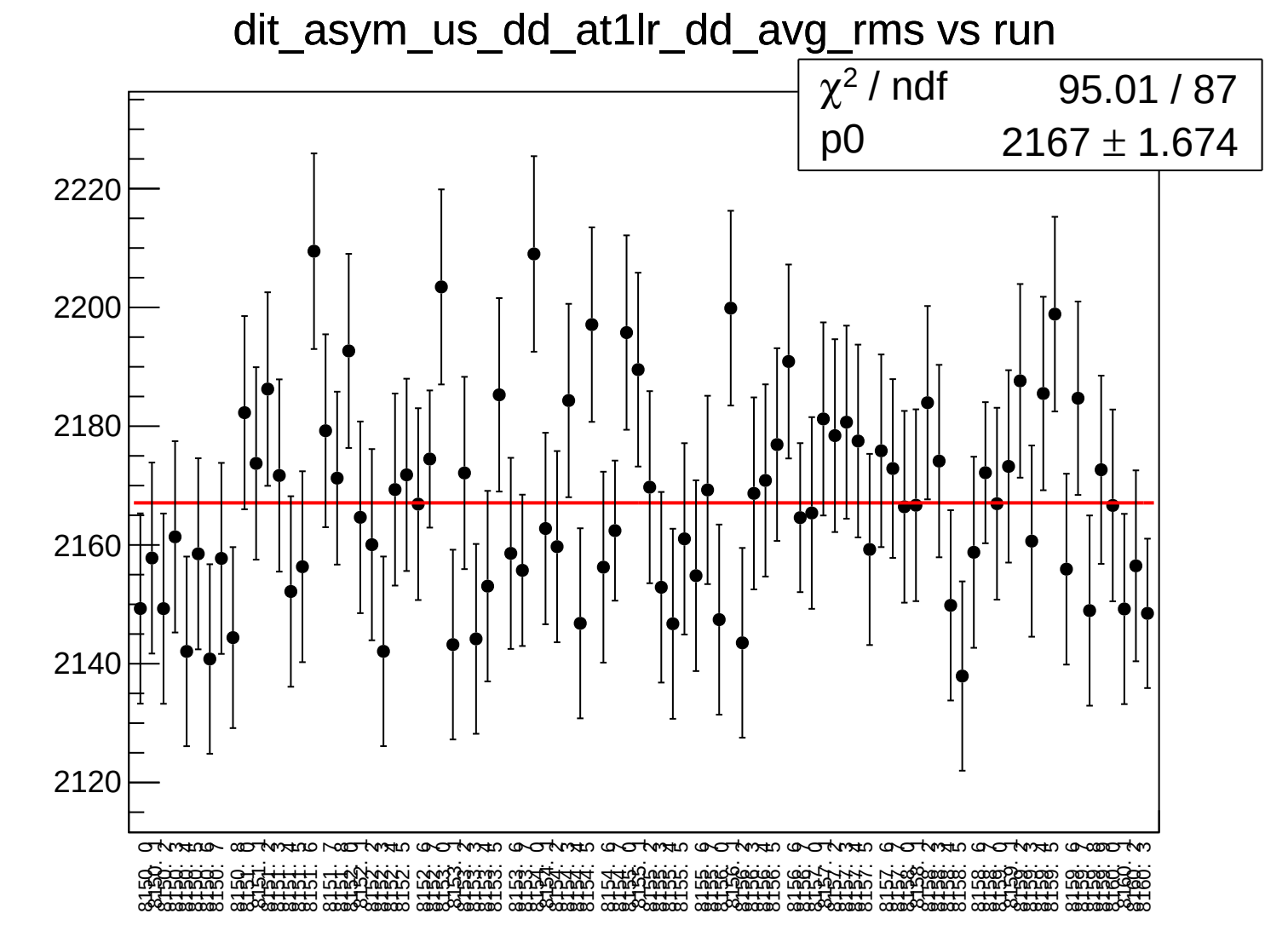

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 95.38 / 87
p0 2166 ± 1.673
2220
2200
2180
2160
2140
2120

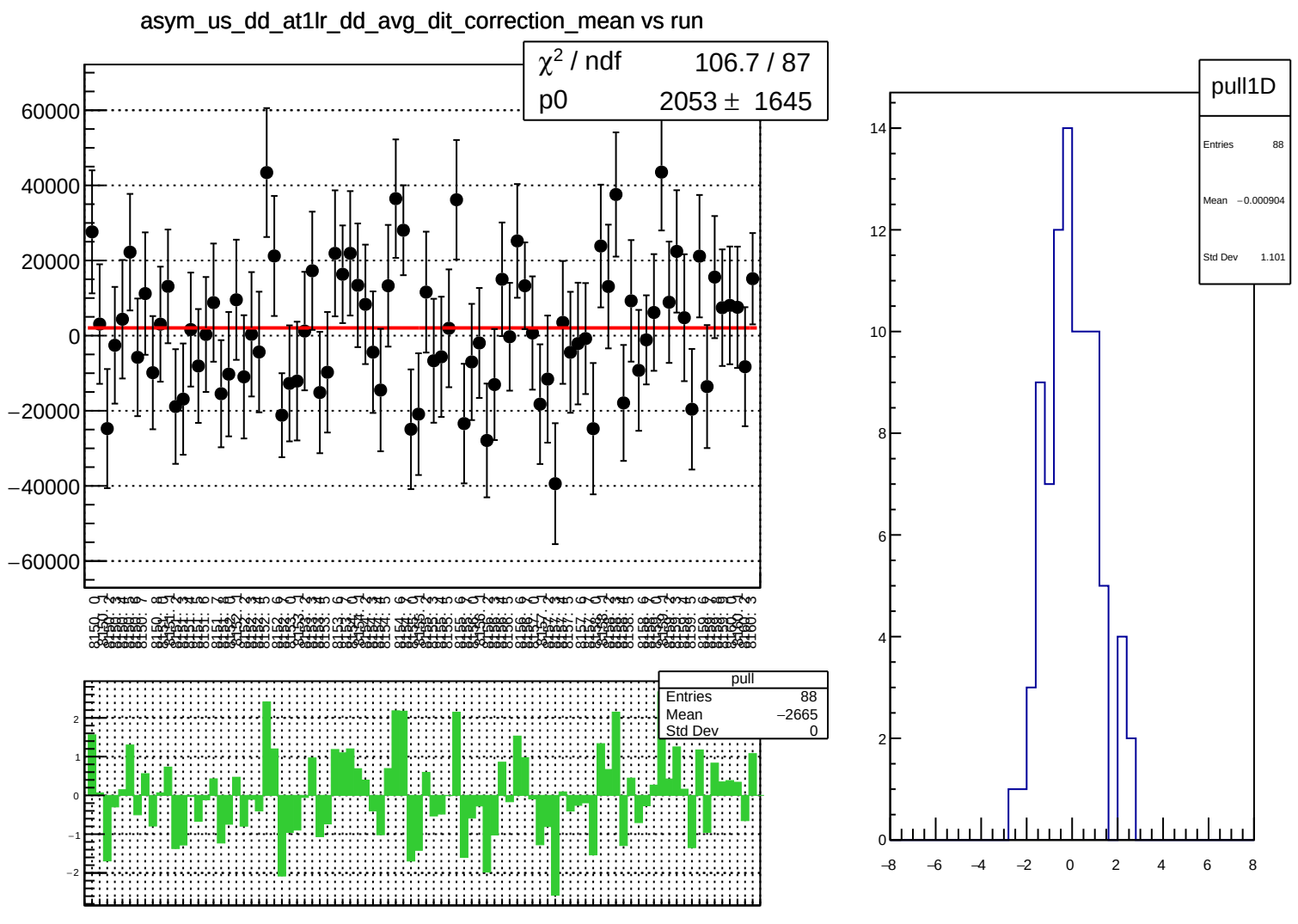

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 105.8 / 87
p0 1985 ± 1616
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −872
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002566
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

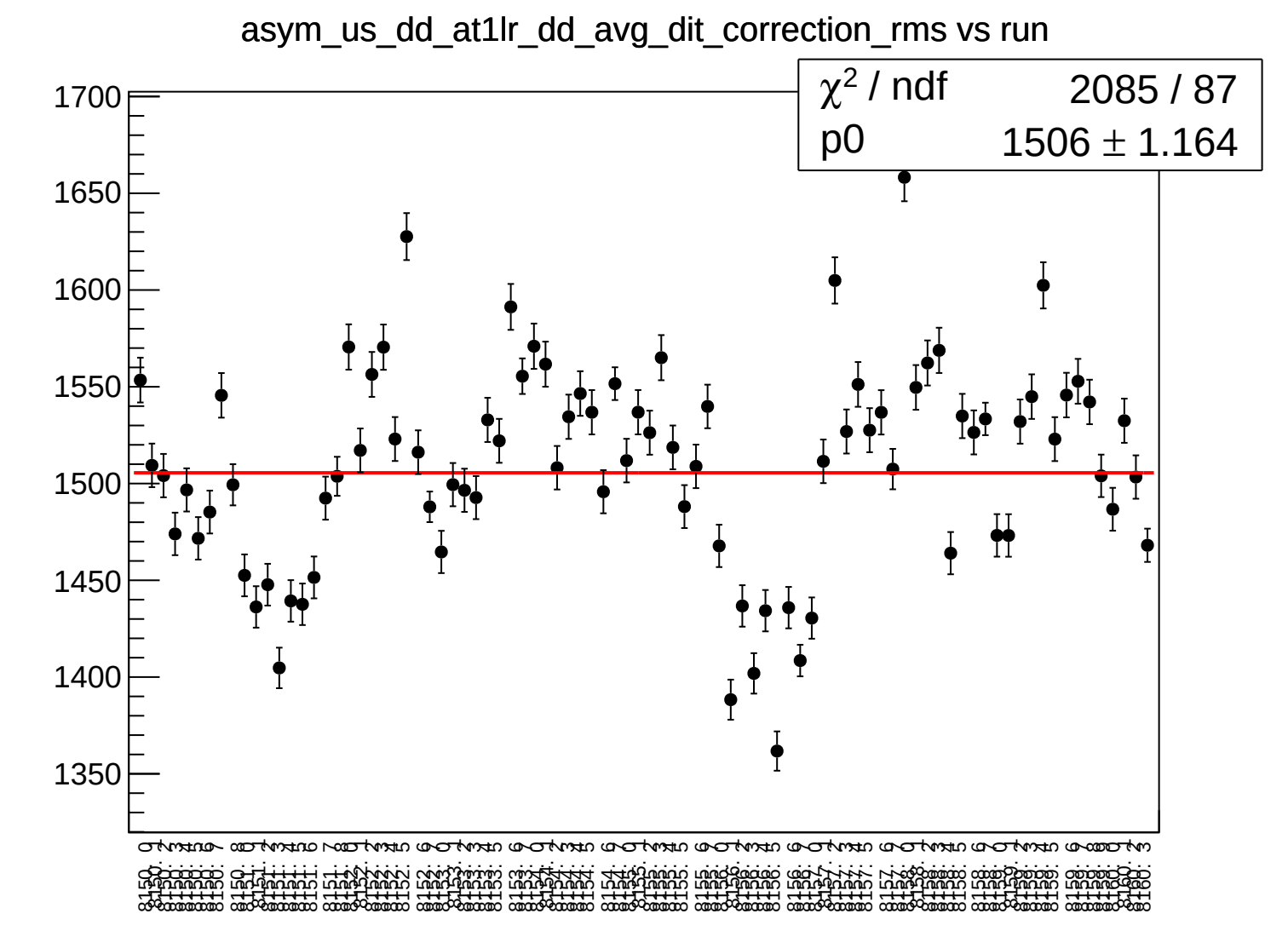

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3052 / 87
p0 1478 ± 1.143
1650
1600
1550
1500
1450
1400
1350
1300

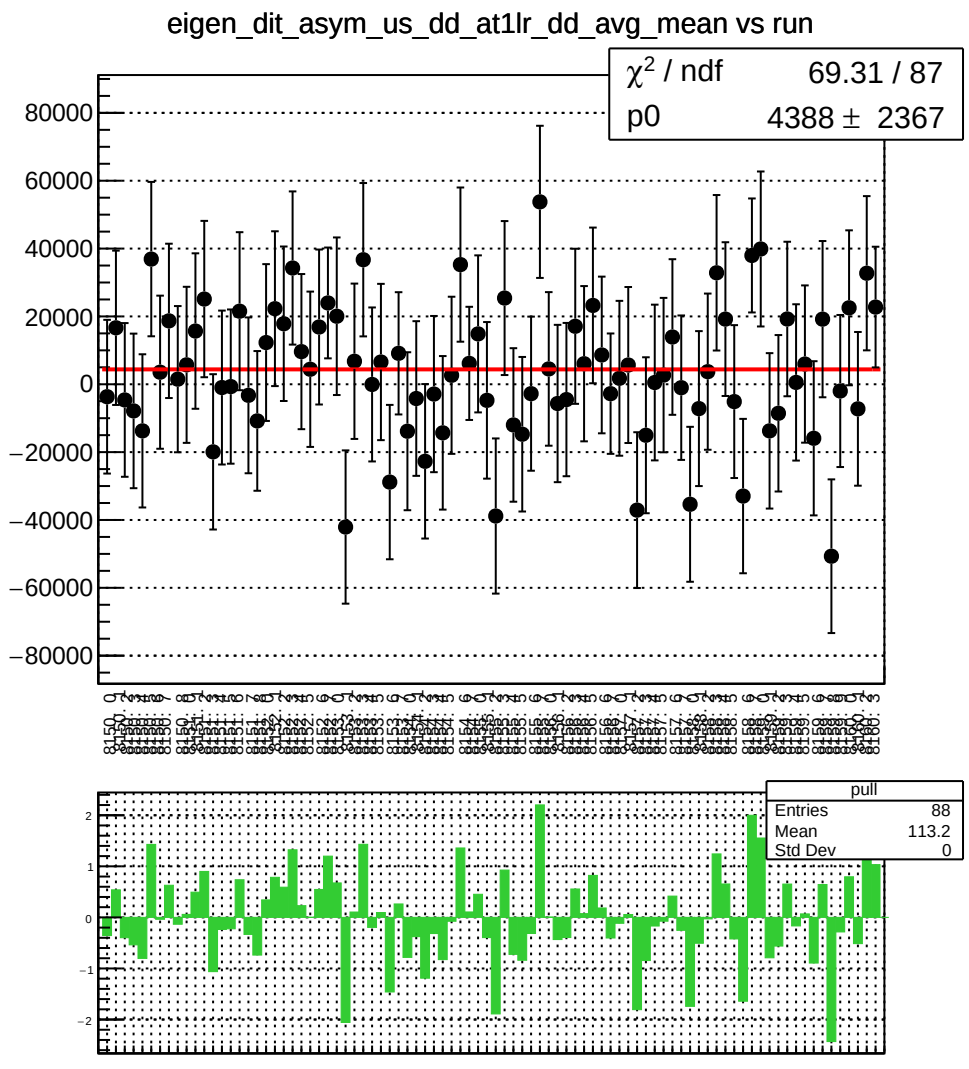

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 69.31 / 87
p0 4388 ± 2367
pull
Entries 88
Mean 113.2
Std Dev 0

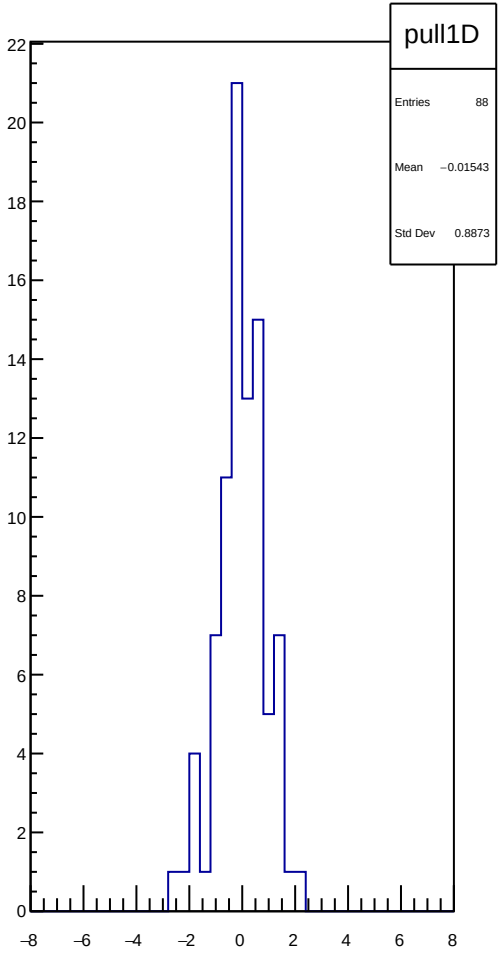

pull1D
Entries 88
Mean −0.01543
Std Dev 0.8873

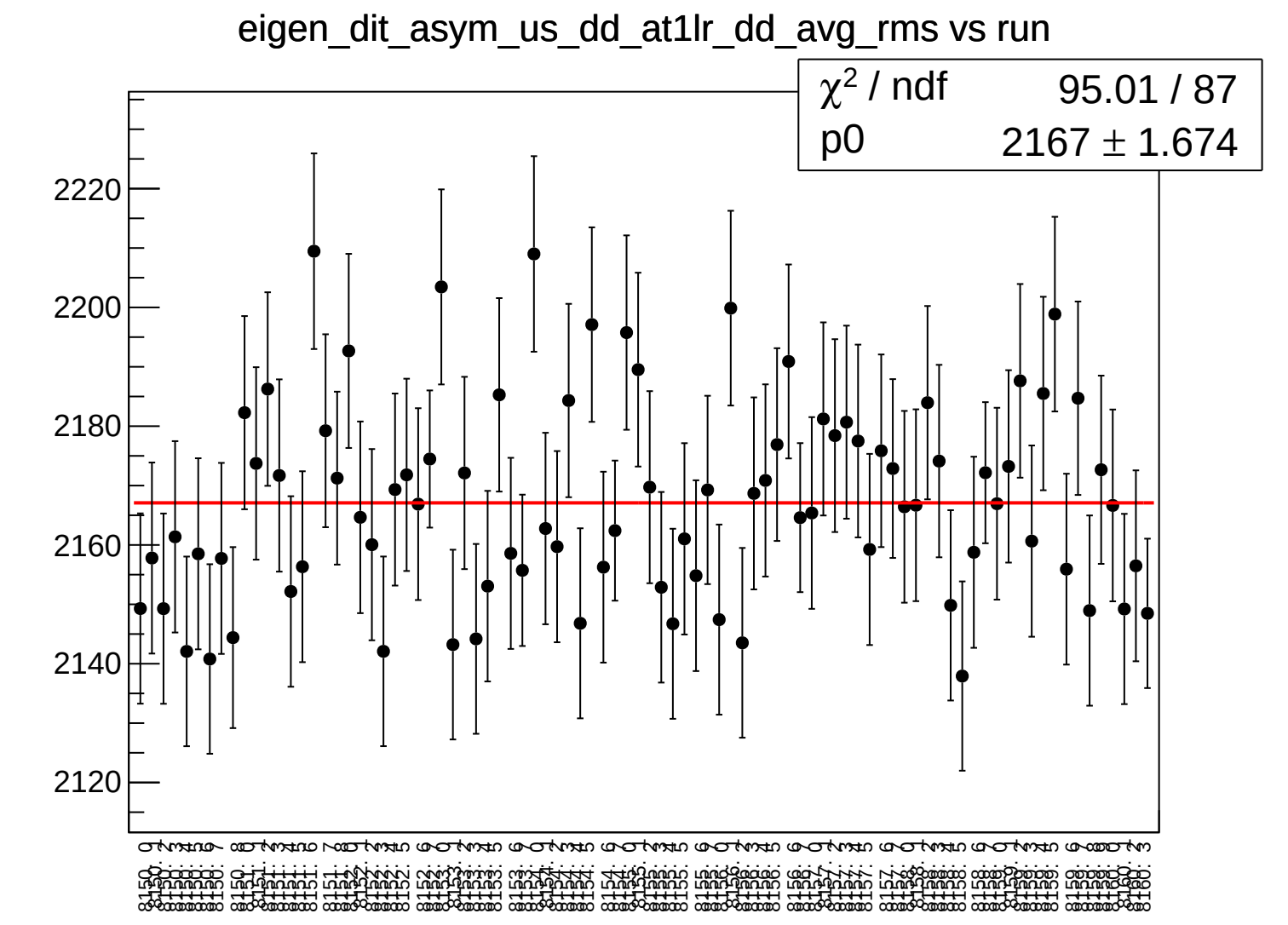

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 95.01 / 87
p0 2167 ± 1.674
2220
2200
2180
2160
2140
2120

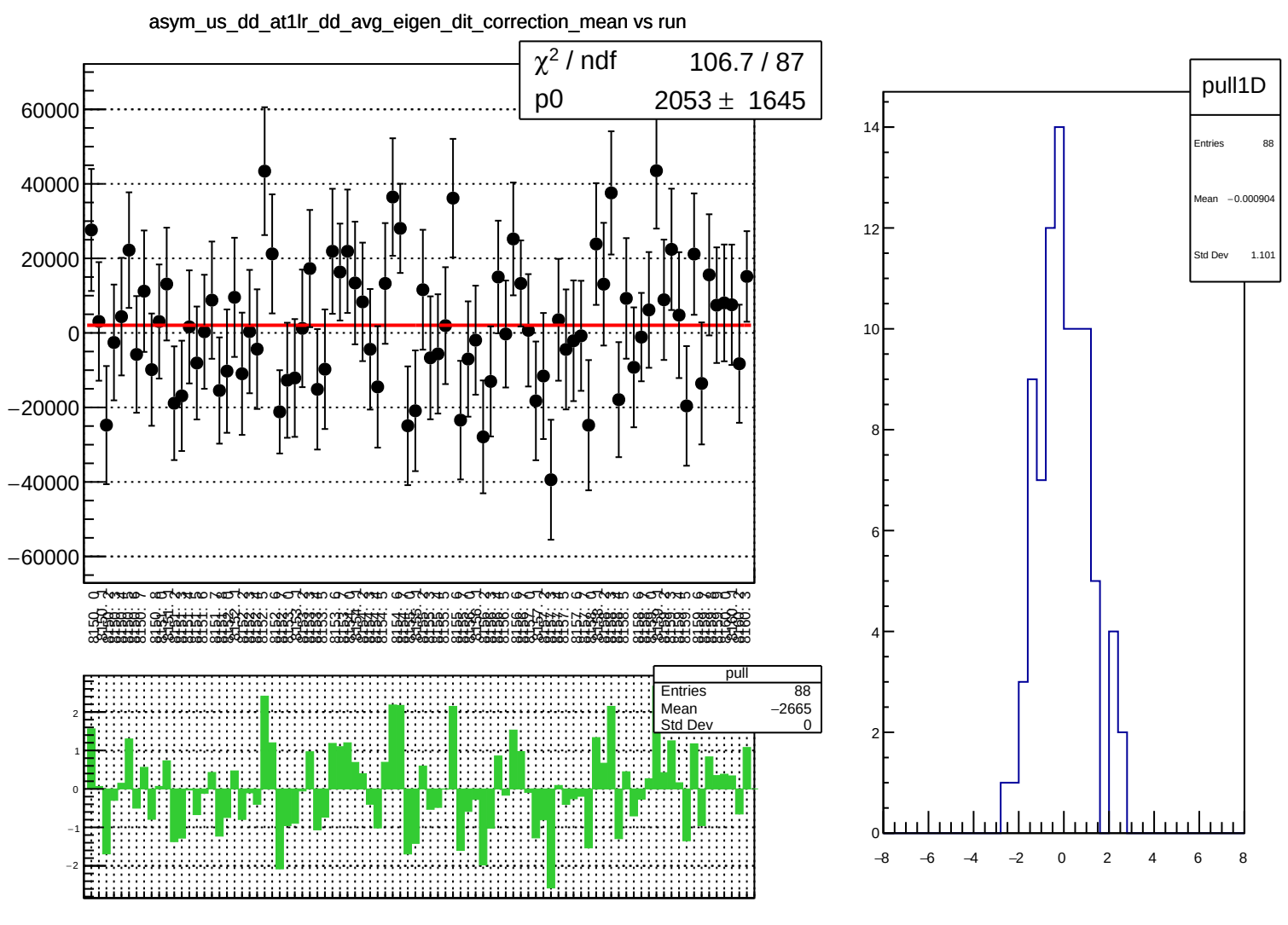

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 106.7 / 87
p0 2053 ± 1645
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −2665
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.000904
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

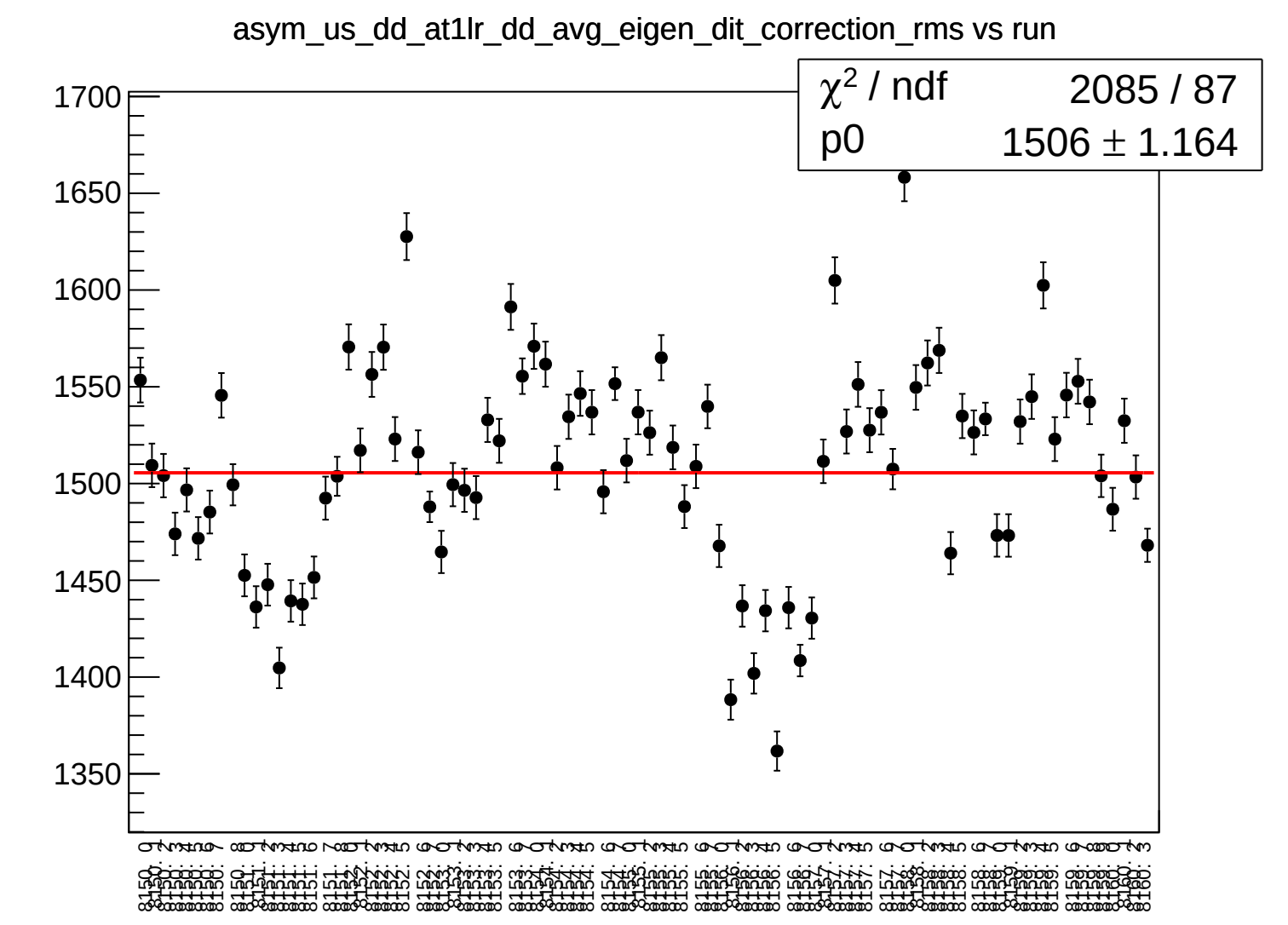

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2085 / 87
p0 1506 ± 1.164
1700
1650
1600
1550
1500
1450
1400
1350

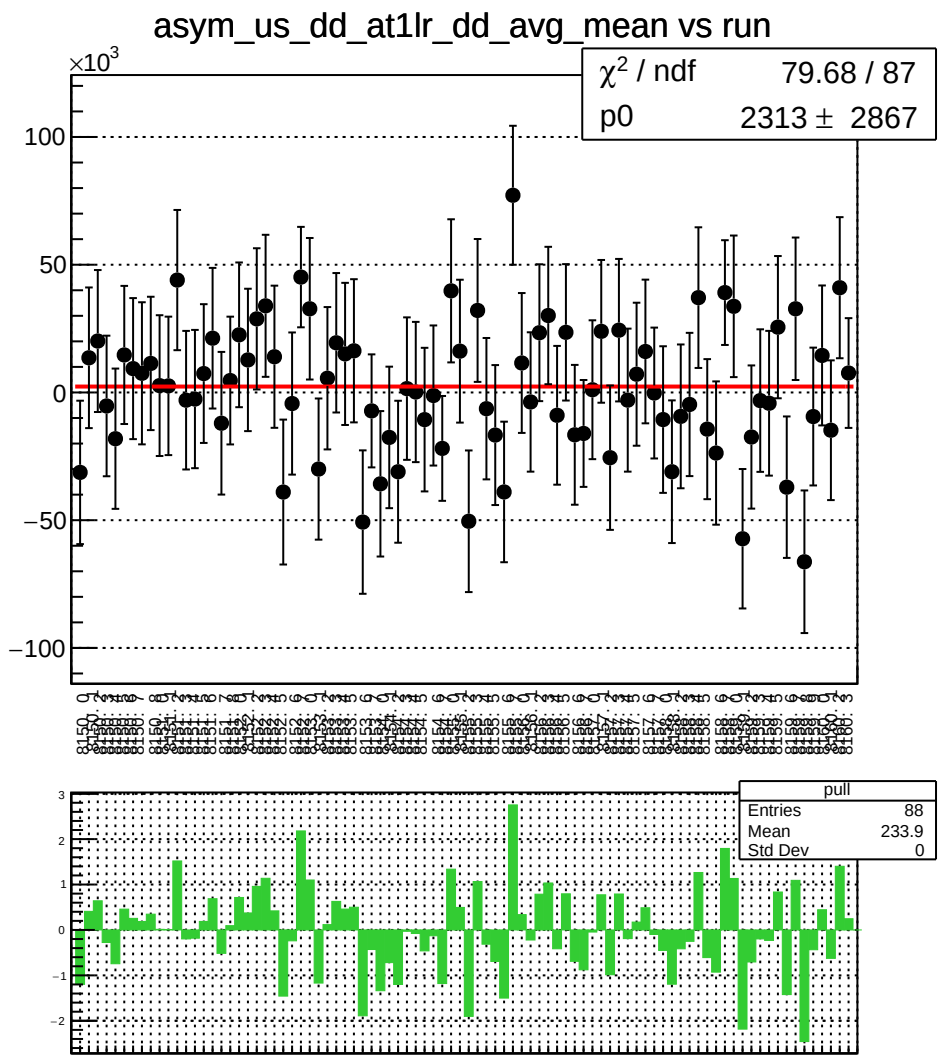

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 69.31 / 87
p0 4388 ± 2367
pull
Entries 88
Mean 113.2
Std Dev 0

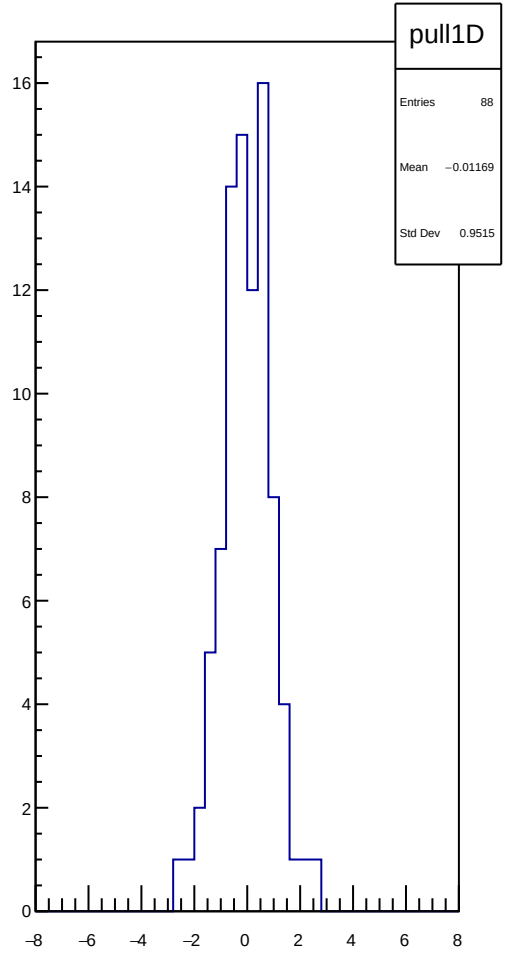

pull1D
Entries 88
Mean −0.01543
Std Dev 0.8873

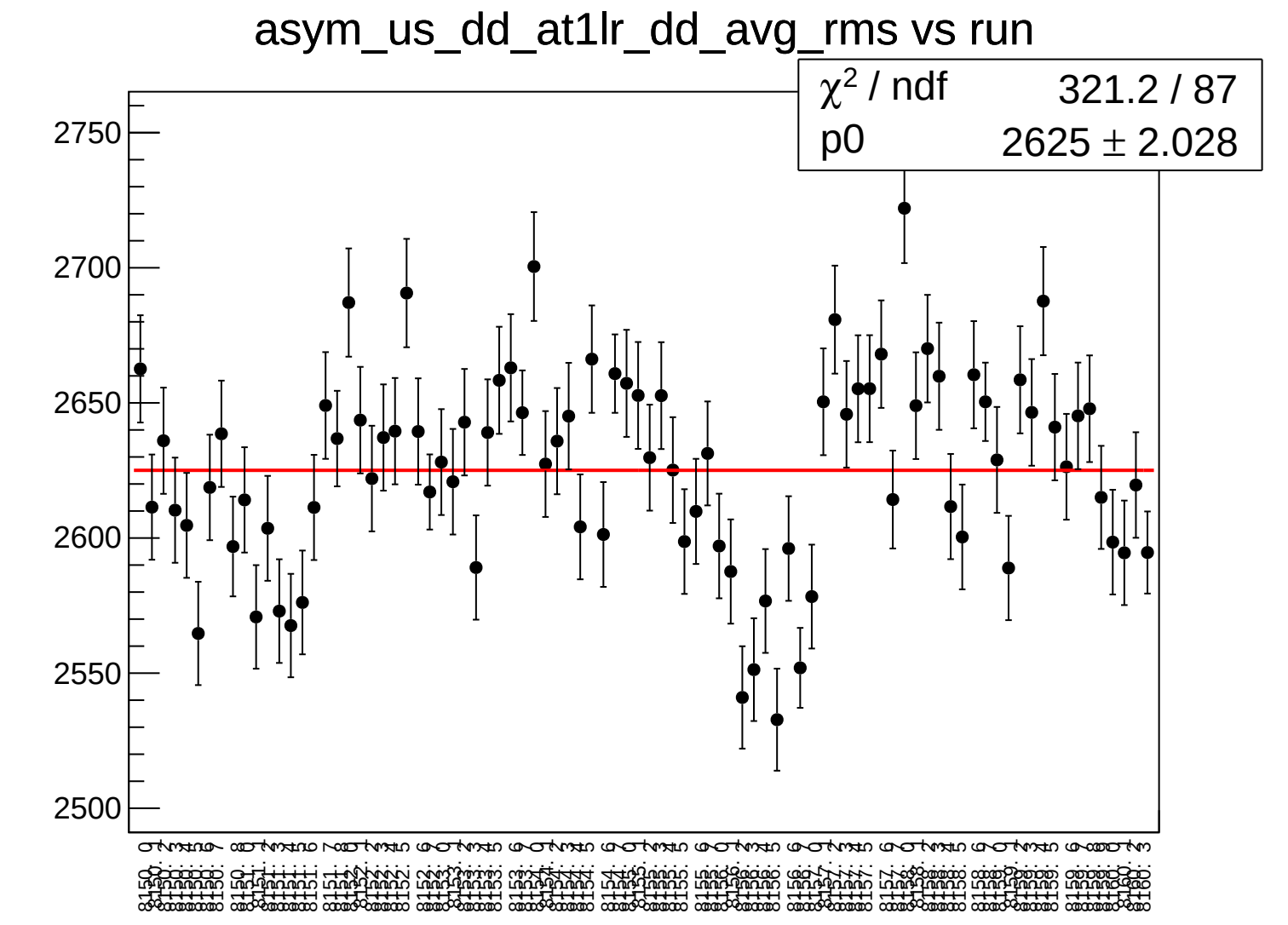

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 95.01 / 87
p0 2167 ± 1.674
2220
2200
2180
2160
2140
2120

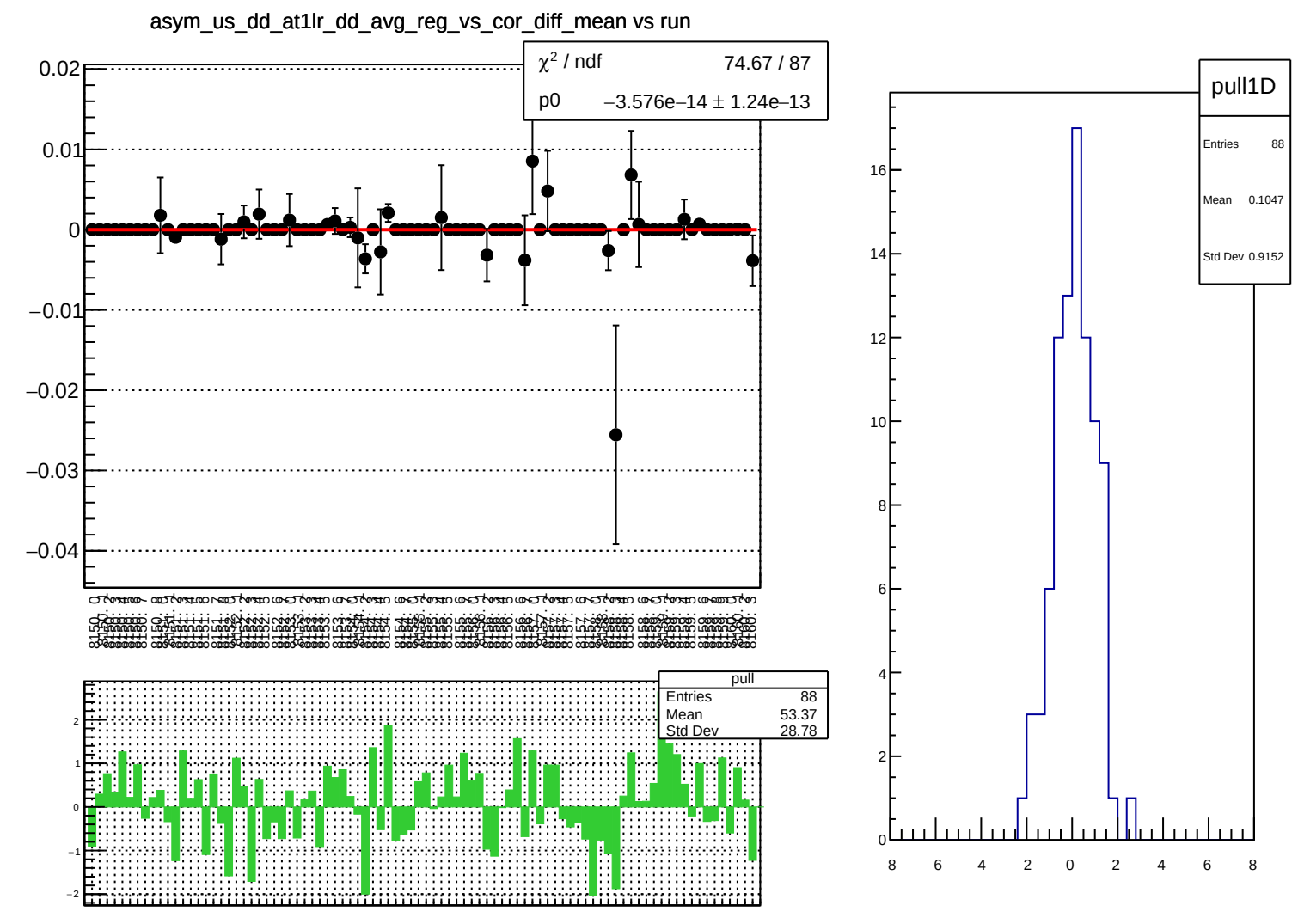

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 106.7 / 87
p0 2053 ± 1645
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −2665
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.000904
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

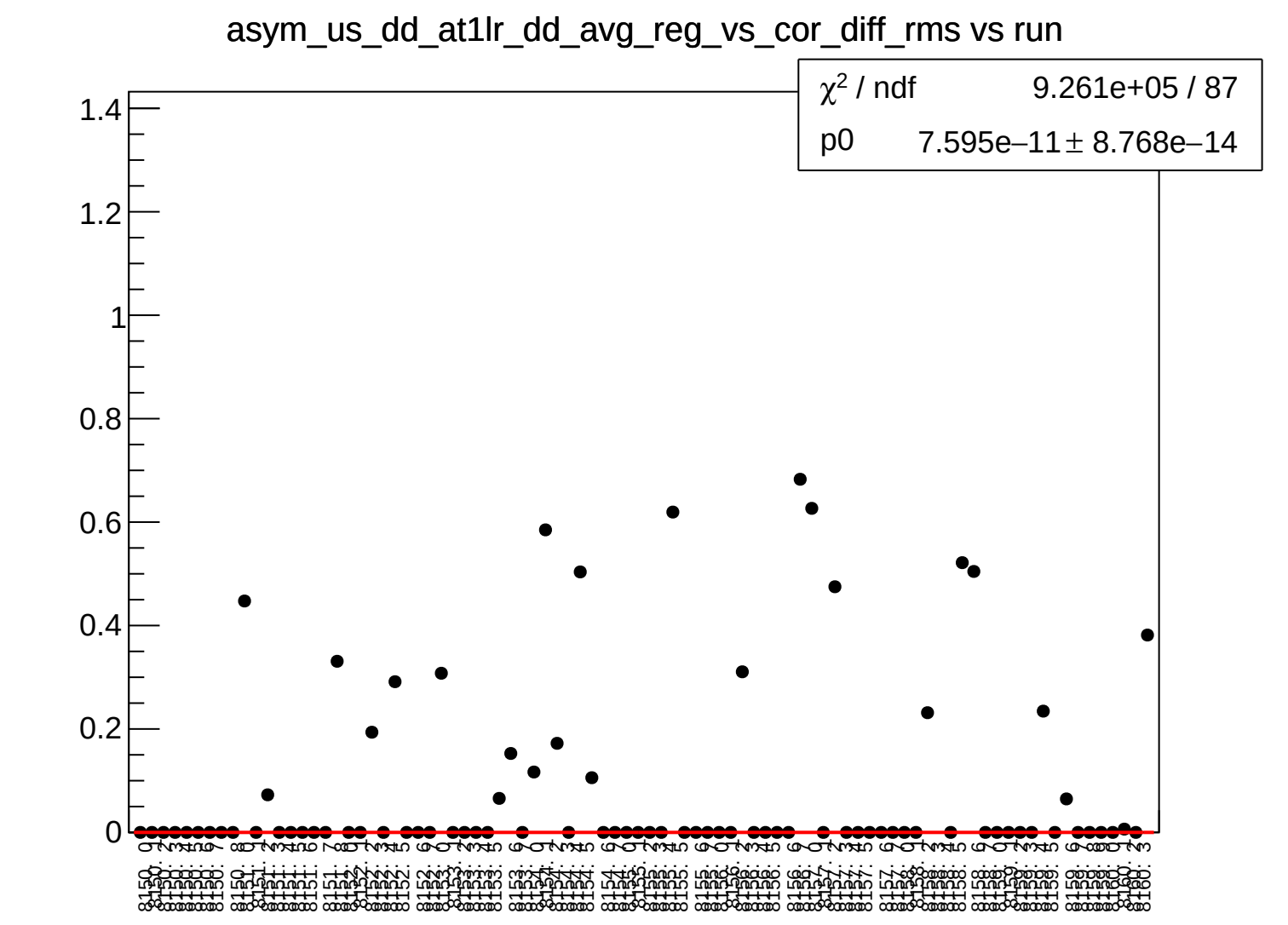

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2085 / 87
p0 1506 ± 1.164
1700
1650
1600
1550
1500
1450
1400
1350

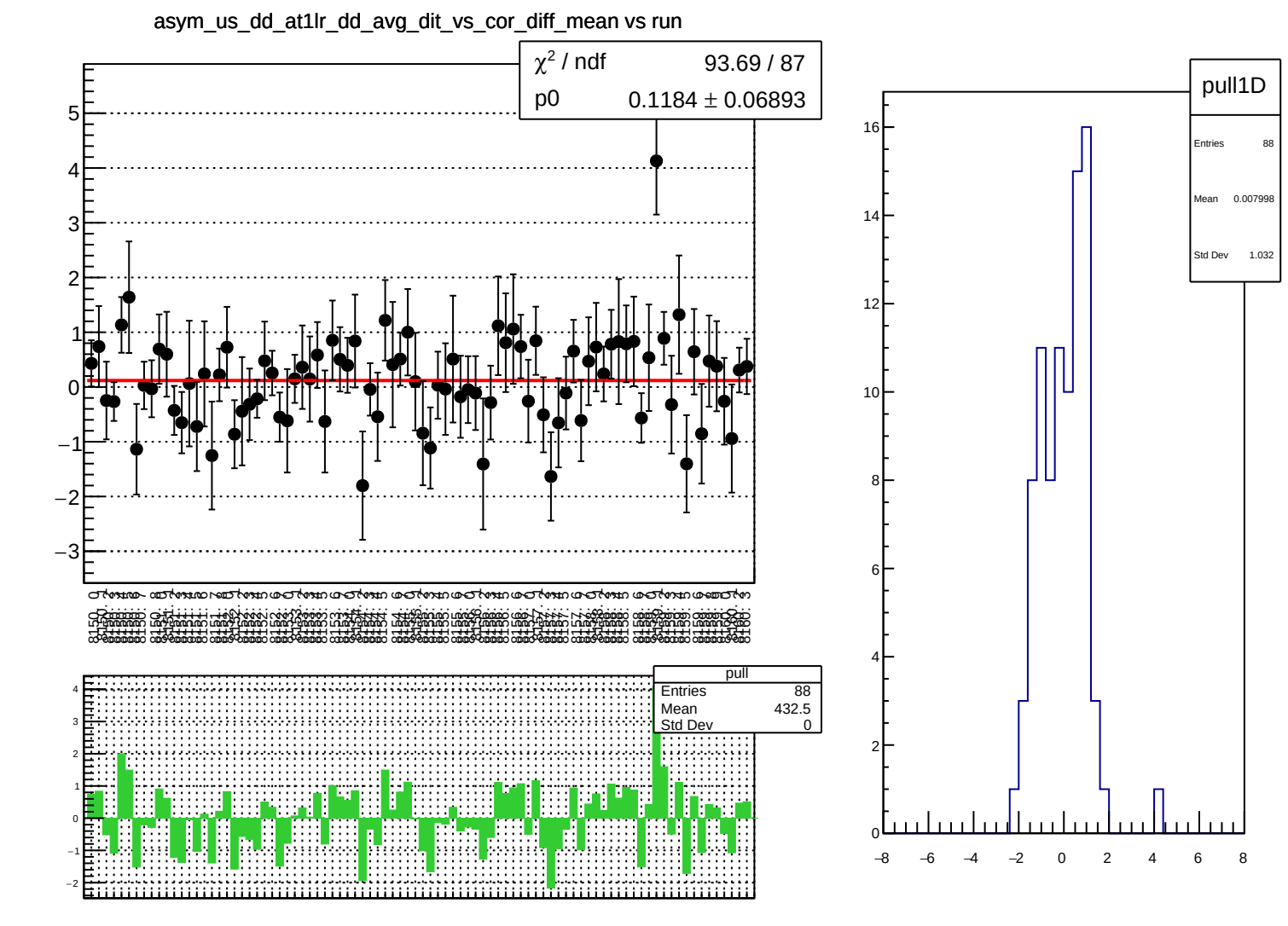

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 79.68 / 87
p0 2313 ± 2867
100
50
0
−50
−100
pull
Entries 88
Mean 233.9
Std Dev 0
3
2
1
0
−1
−2

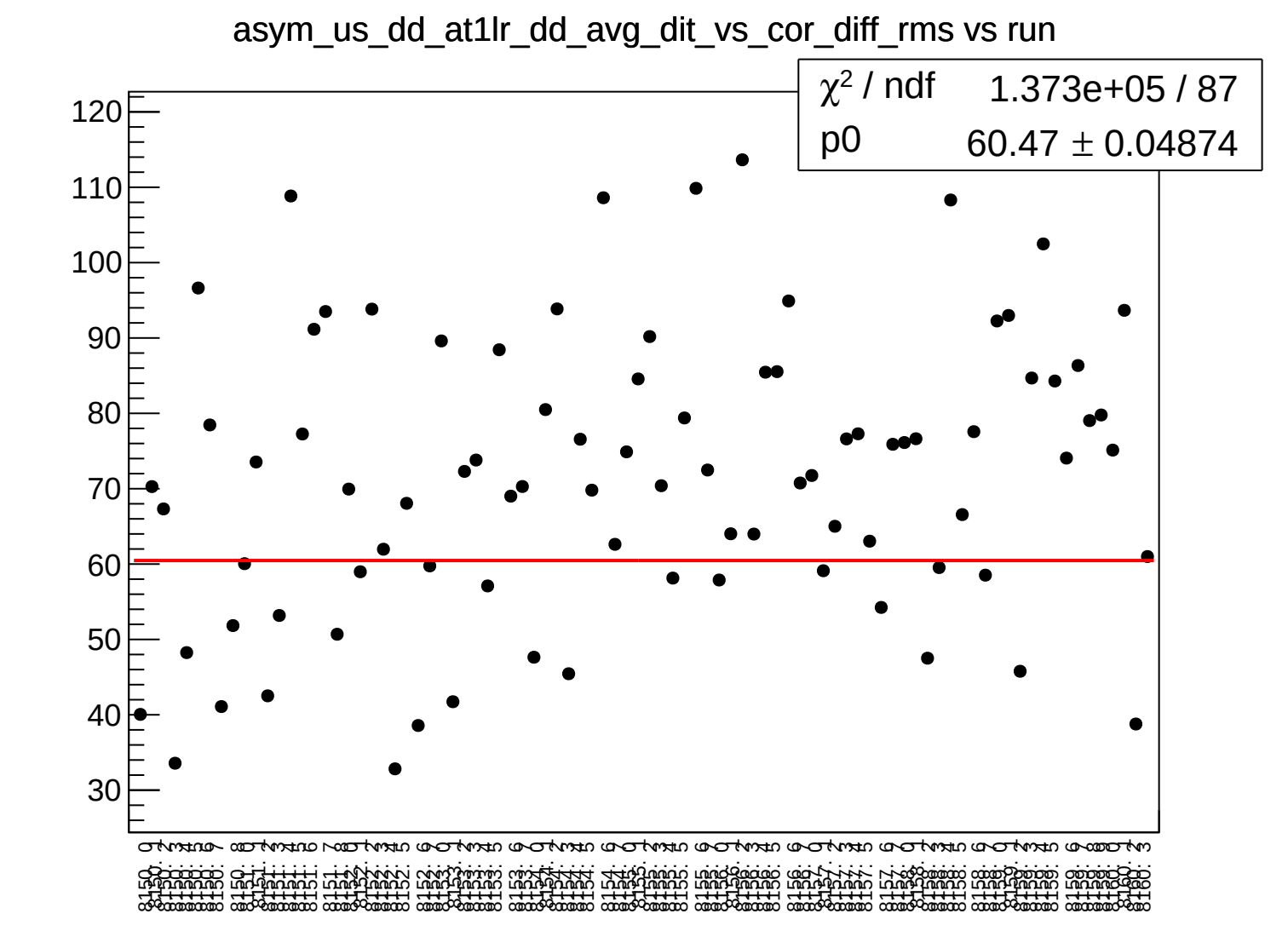

pull1D
Entries 88
Mean −0.01169
Std Dev 0.9515
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

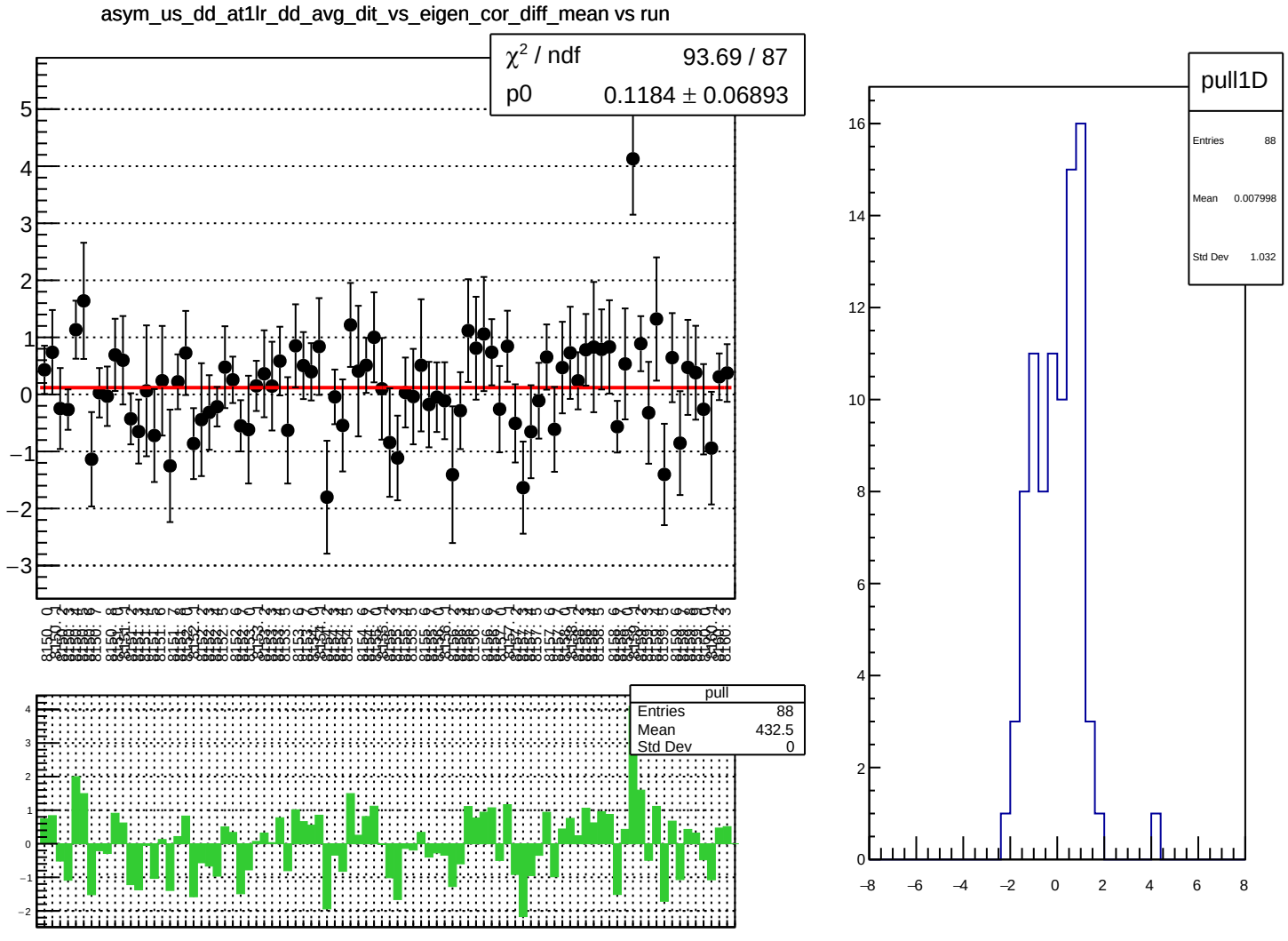

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 321.2 / 87
p0 2625 ± 2.028
2750
2700
2650
2600
2550
2500

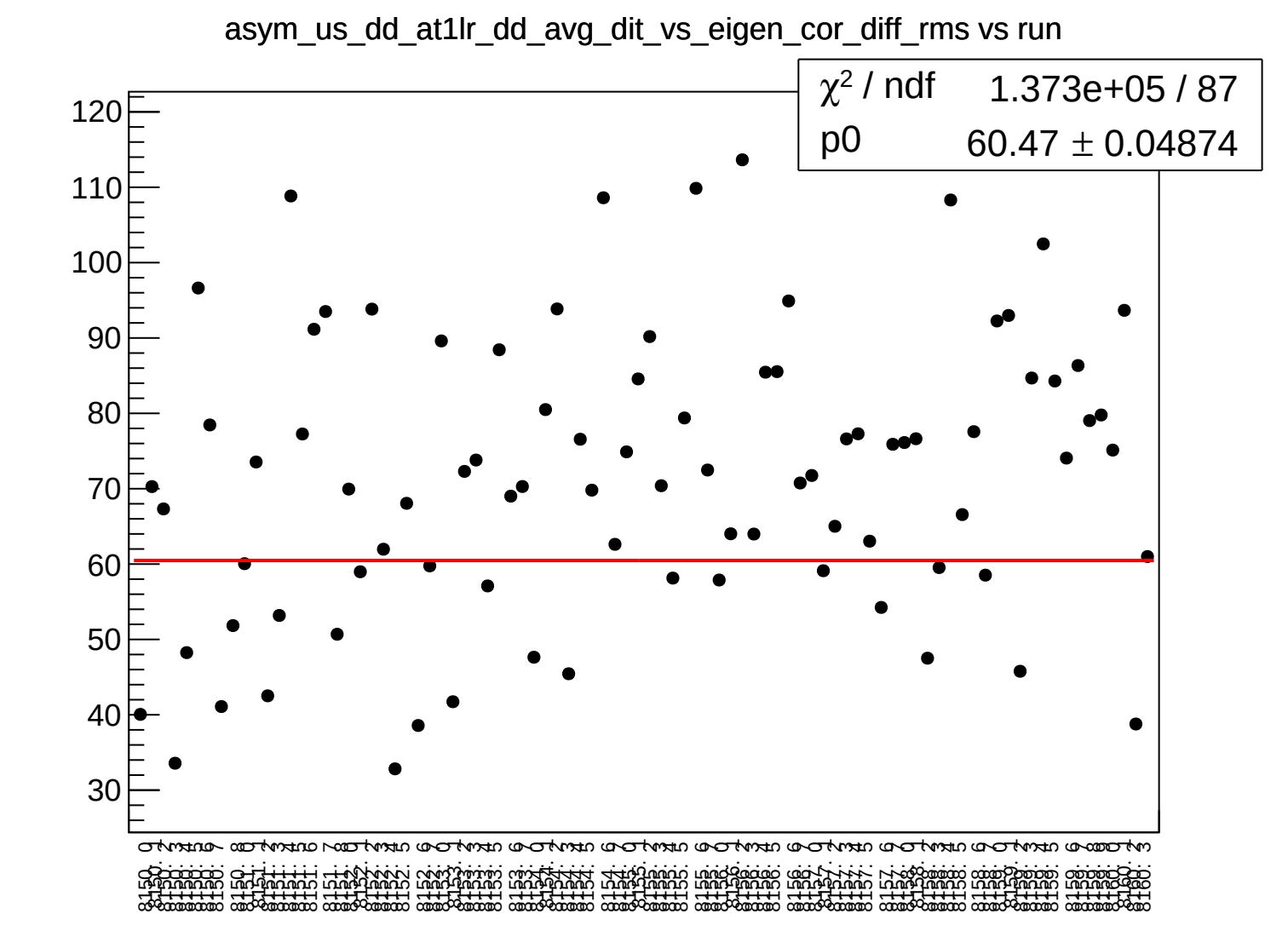

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.67 / 87
p0 −3.576e−14 ± 1.24e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 88
Mean 53.37
Std Dev 28.78
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.1047
Std Dev 0.9152
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

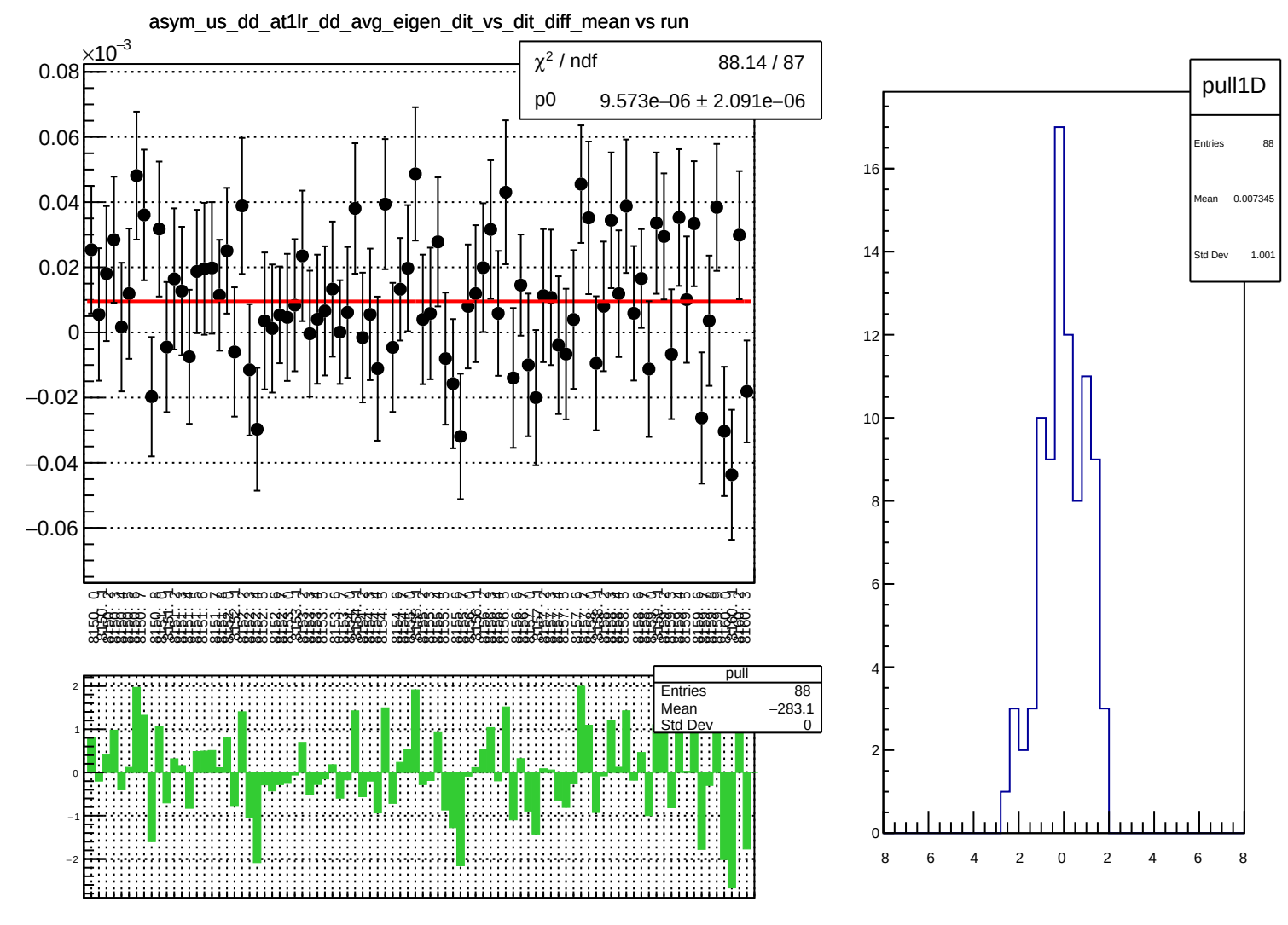

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.261e+05 / 87
p0 7.595e−11 ± 8.768e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

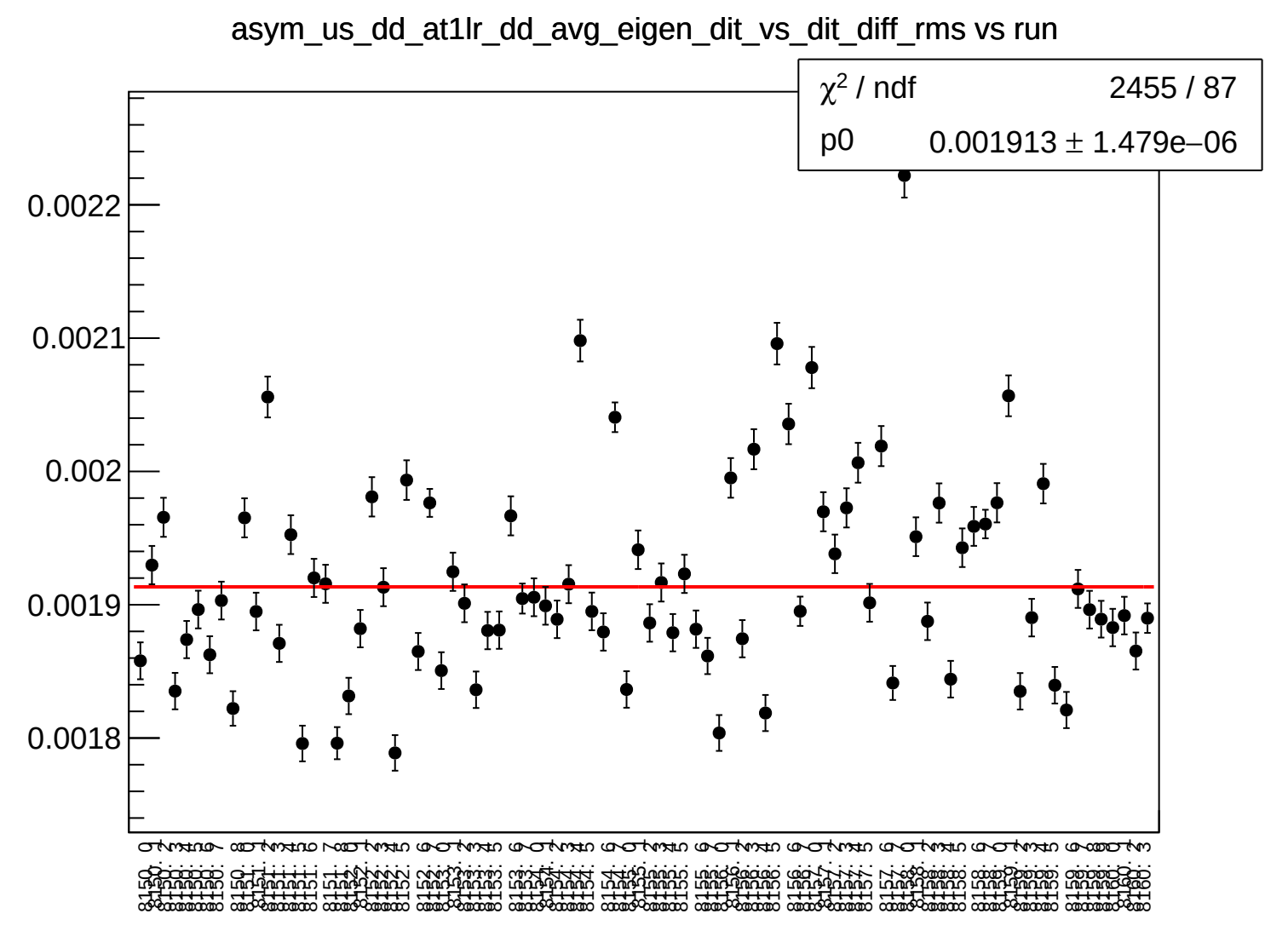

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.69 / 87
p0 0.1184 ± 0.06893
pull
Entries 88
Mean 432.5
Std Dev 0
pull1D
Entries 88
Mean 0.007998
Std Dev 1.032

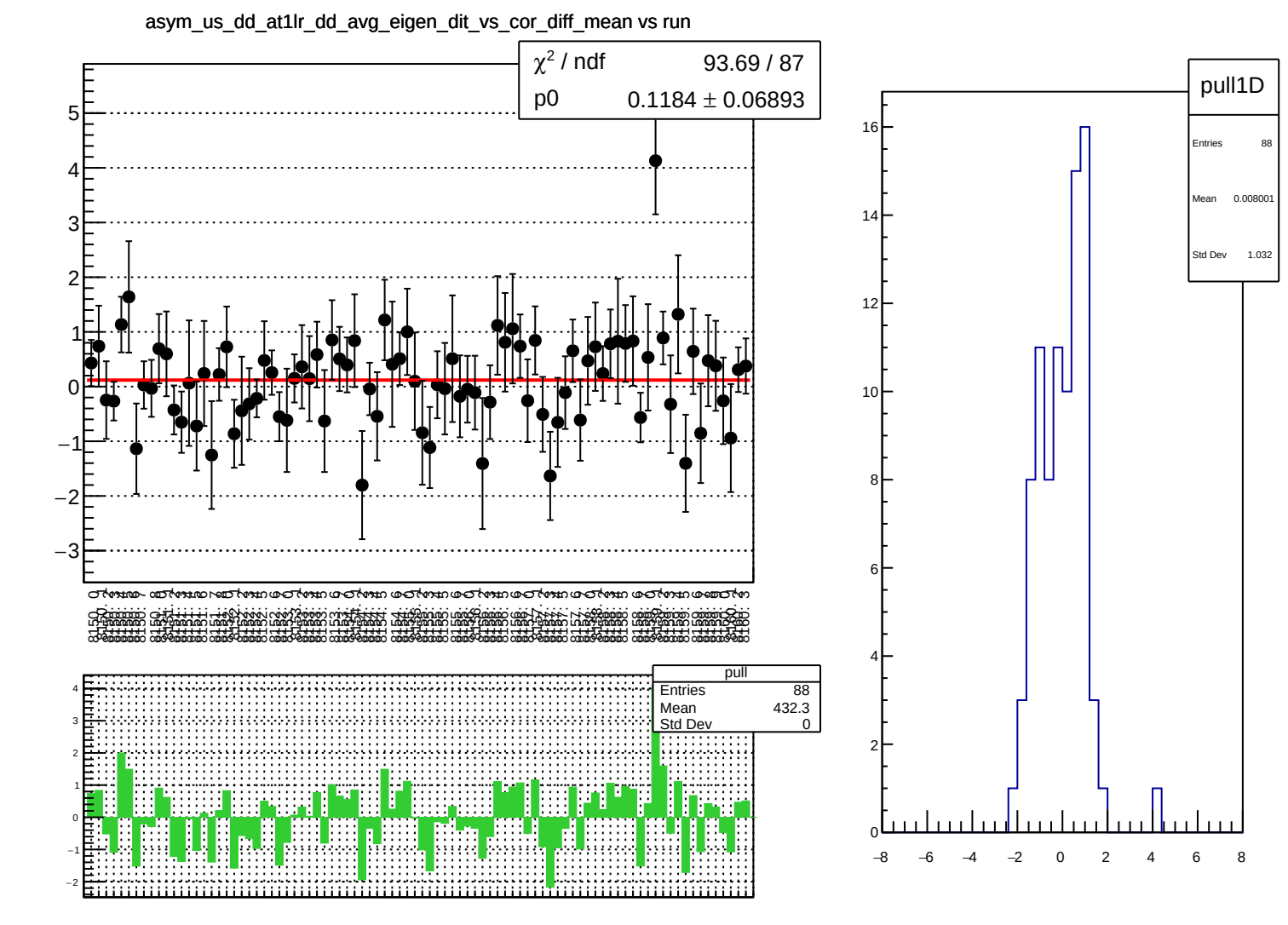

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.373e+05 / 87
p0 60.47 ± 0.04874
120
110
100
90
80
70
60
50
40
30

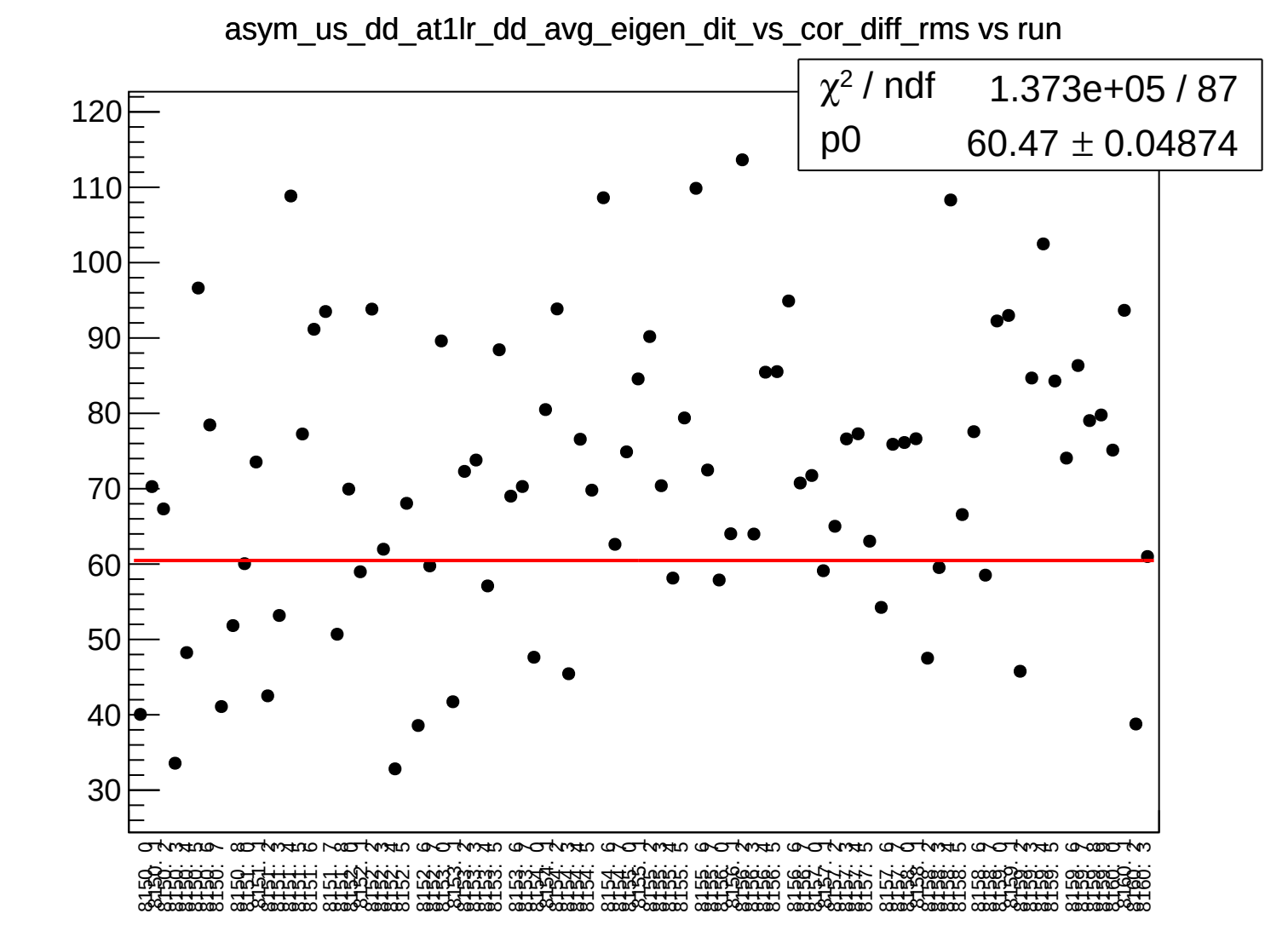

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.69 / 87
p0 0.1184 ± 0.06893
pull
Entries 88
Mean 432.5
Std Dev 0
pull1D
Entries 88
Mean 0.007998
Std Dev 1.032

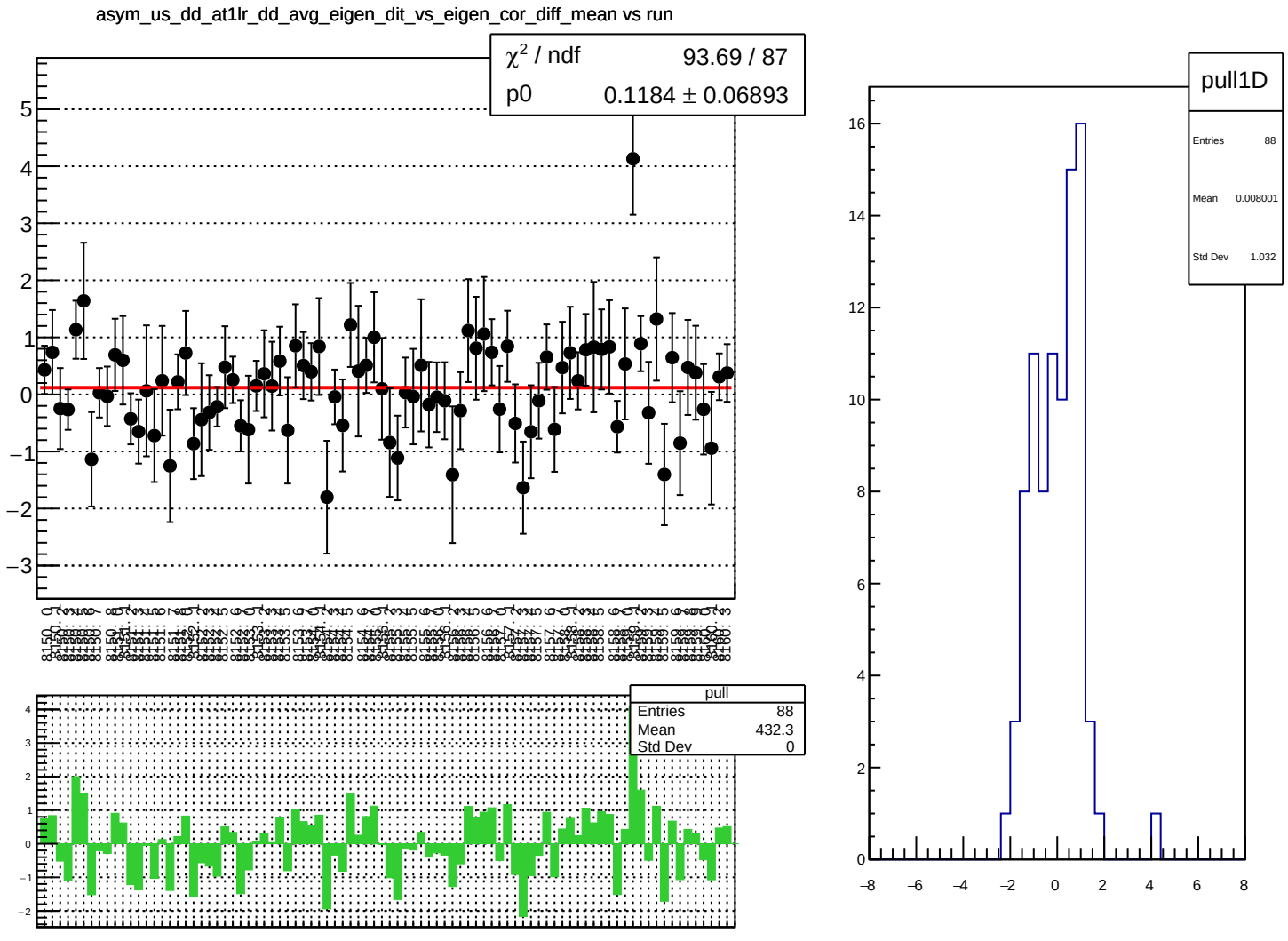

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.373e+05 / 87
p0 60.47 ± 0.04874
120
110
100
90
80
70
60
50
40
30

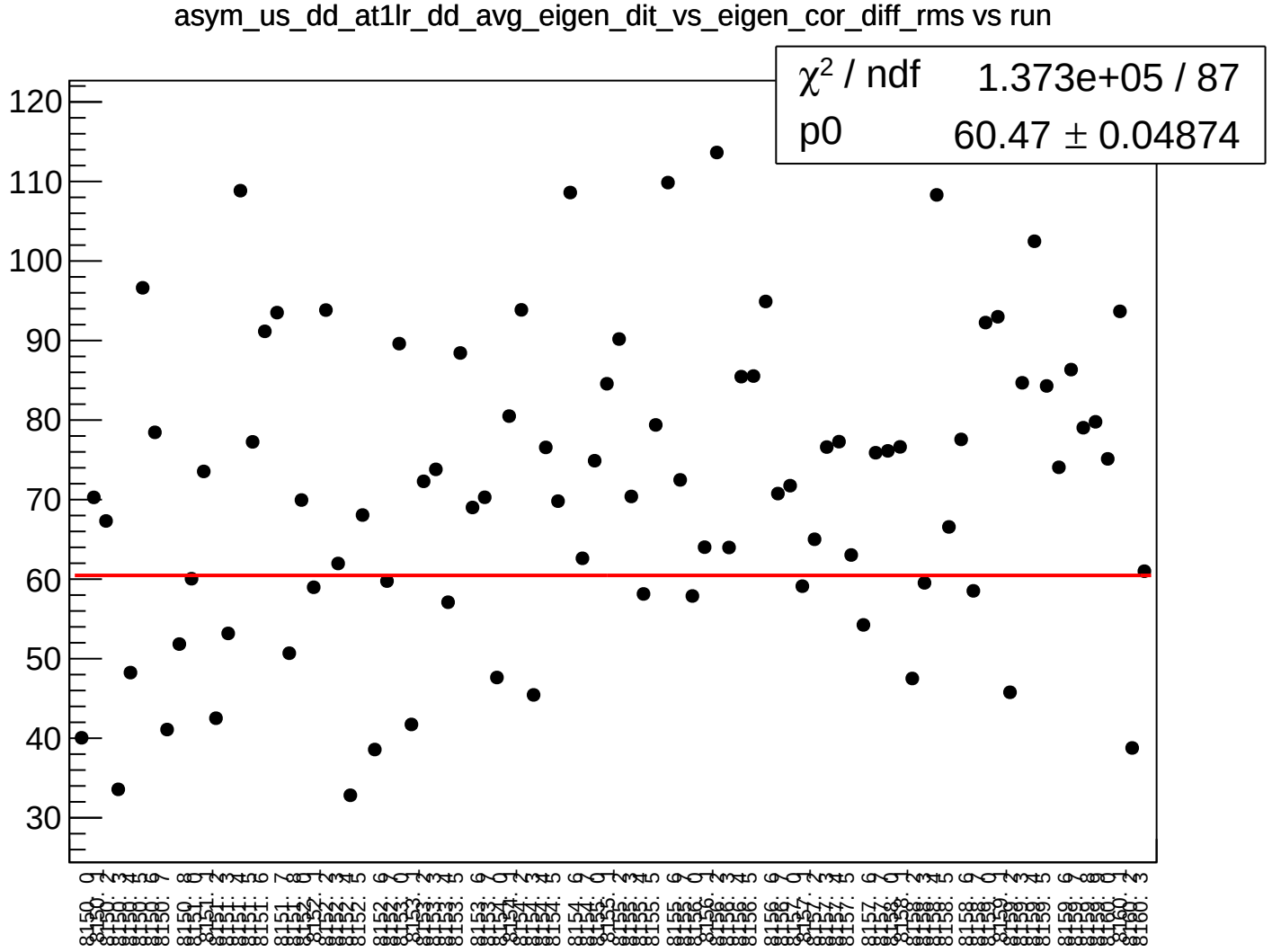

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.14 / 87
p0 9.573e−06 ± 2.091e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean −283.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.007345
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

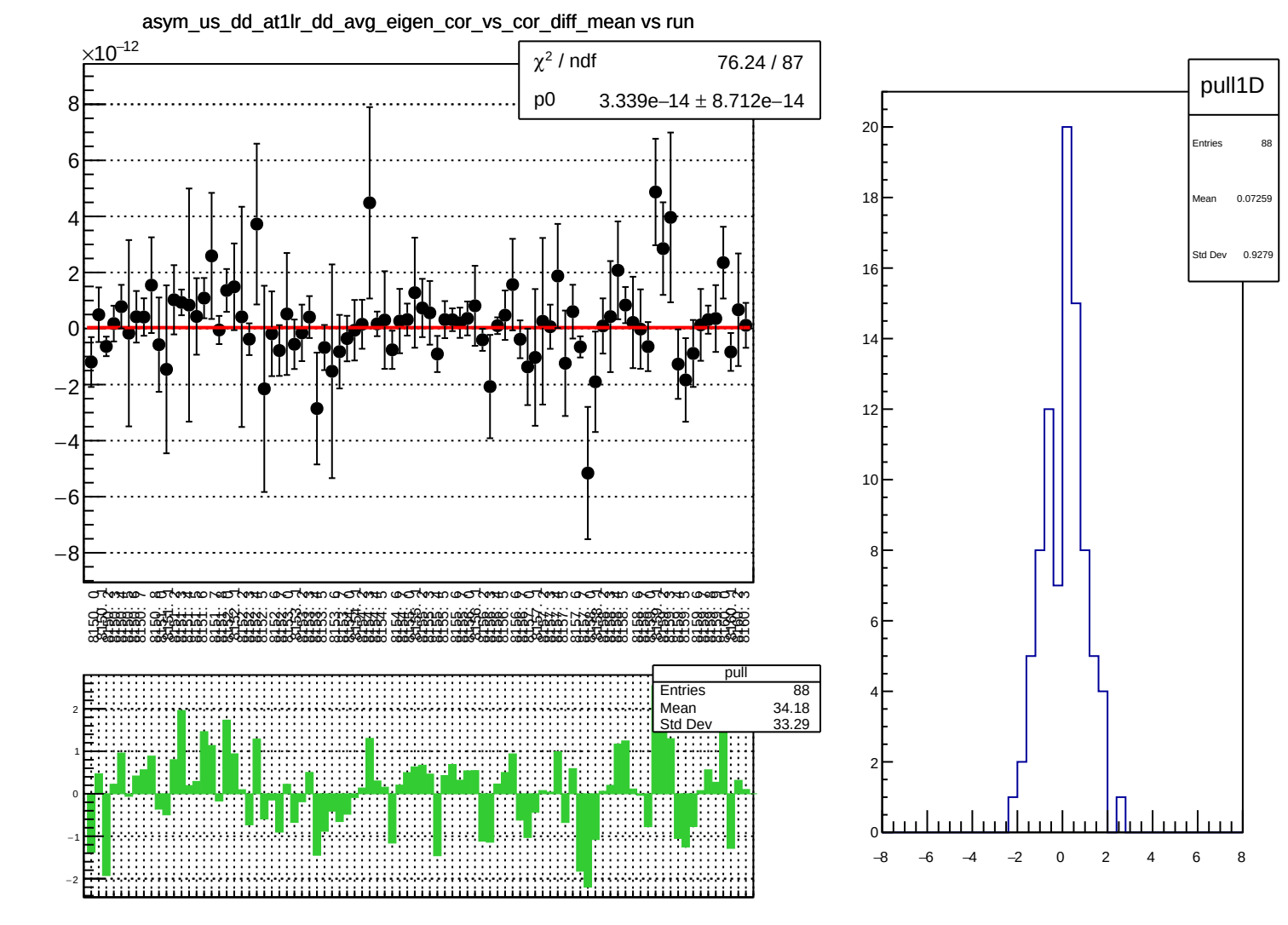

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2455 / 87
p0 0.001913 ± 1.479e−06
0.0022
0.0021
0.002
0.0019
0.0018

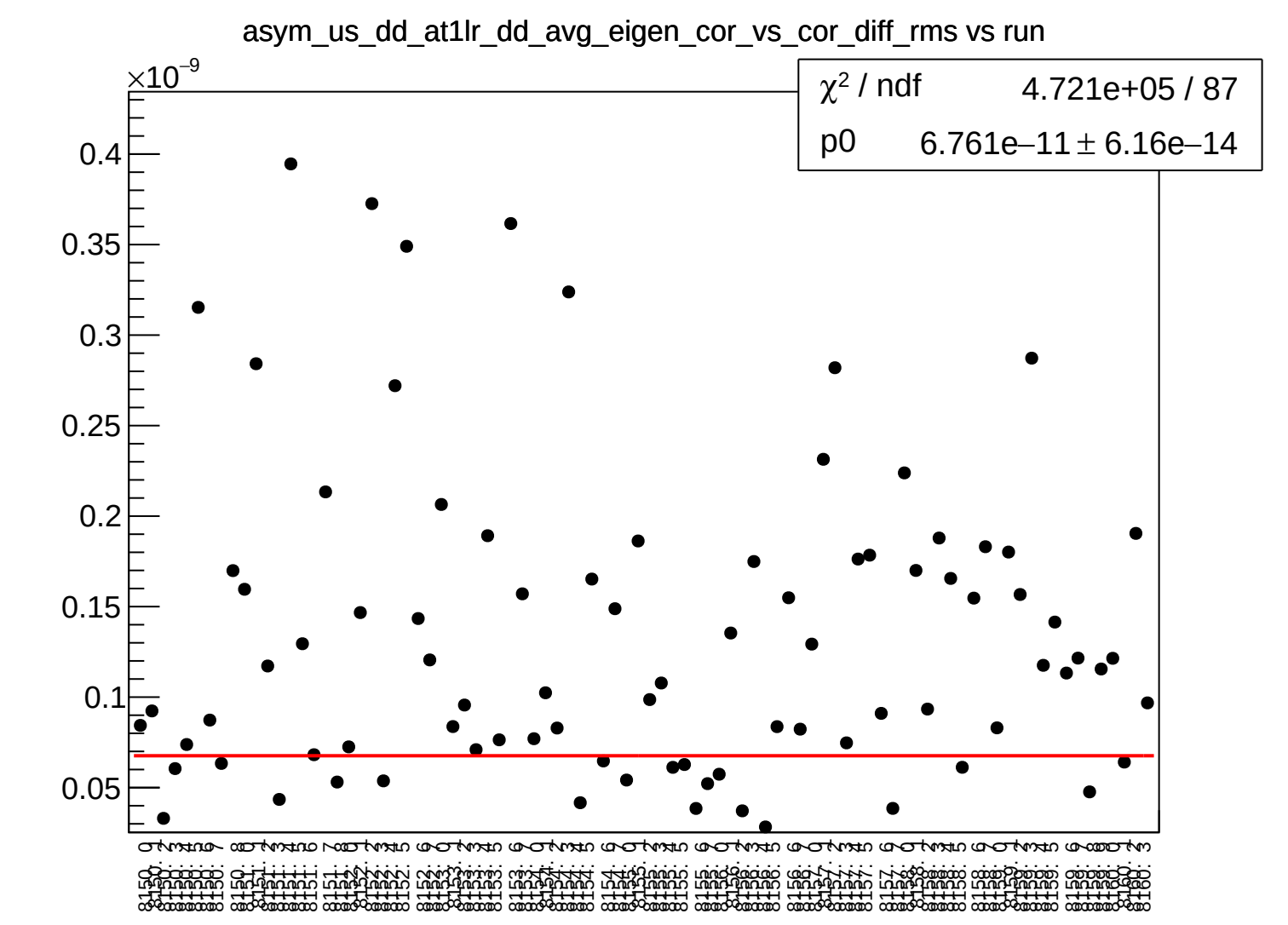

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.69 / 87
p0 0.1184 ± 0.06893
pull
Entries 88
Mean 432.3
Std Dev 0
pull1D
Entries 88
Mean 0.008001
Std Dev 1.032

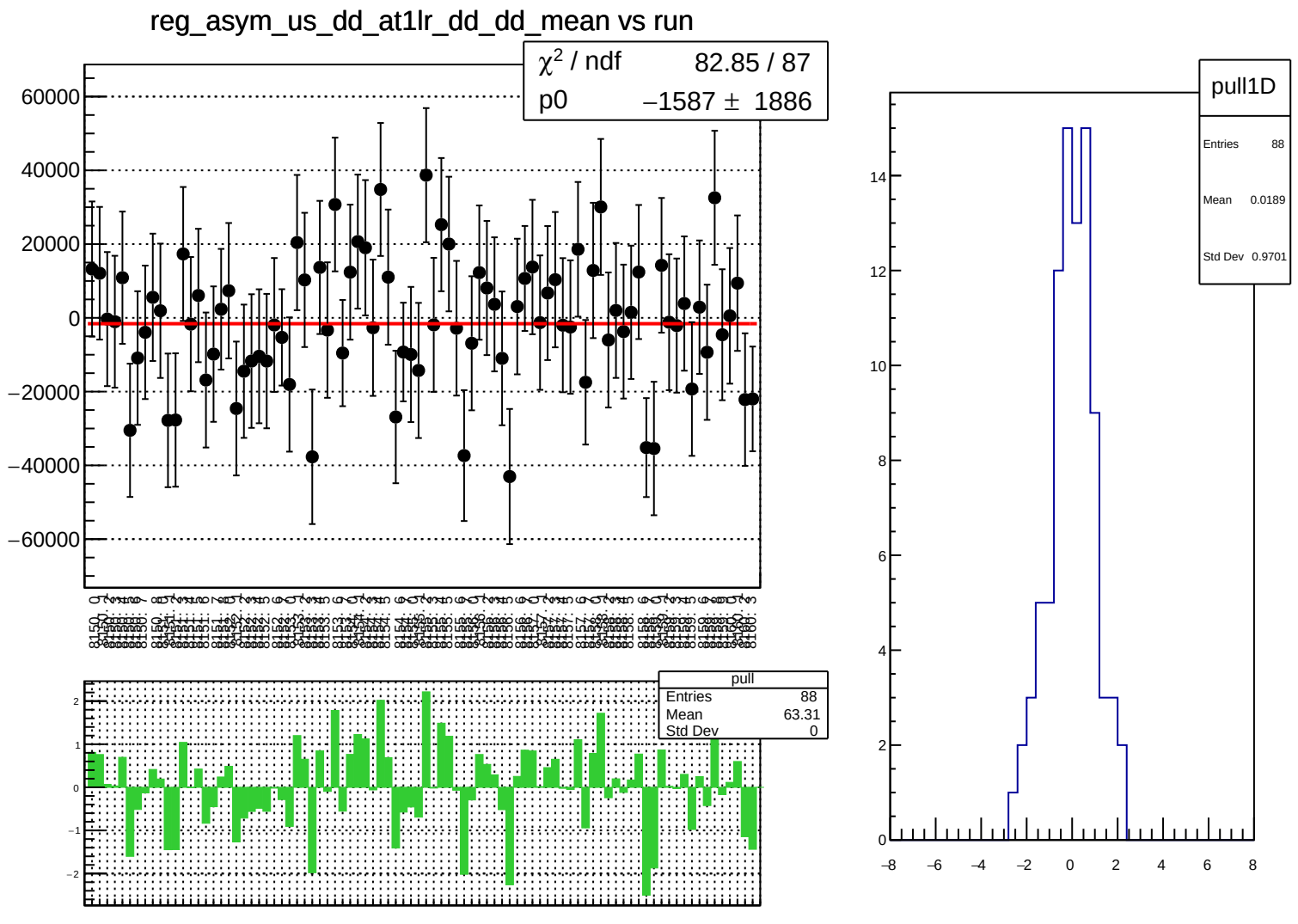

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.373e+05 / 87
p0 60.47 ± 0.04874
120
110
100
90
80
70
60
50
40
30

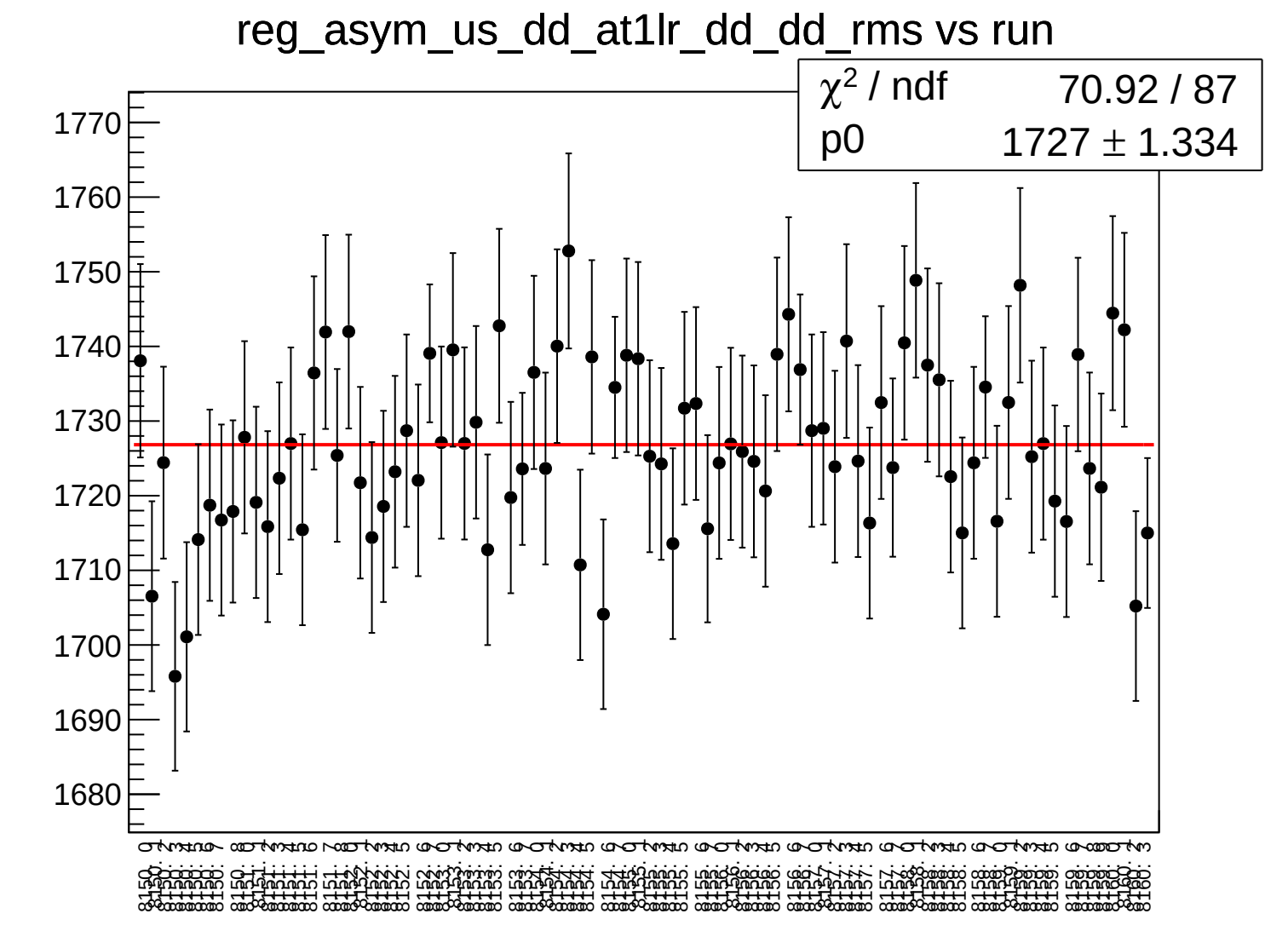

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.69 / 87
p0 0.1184 ± 0.06893
pull
Entries 88
Mean 432.3
Std Dev 0
pull1D
Entries 88
Mean 0.008001
Std Dev 1.032

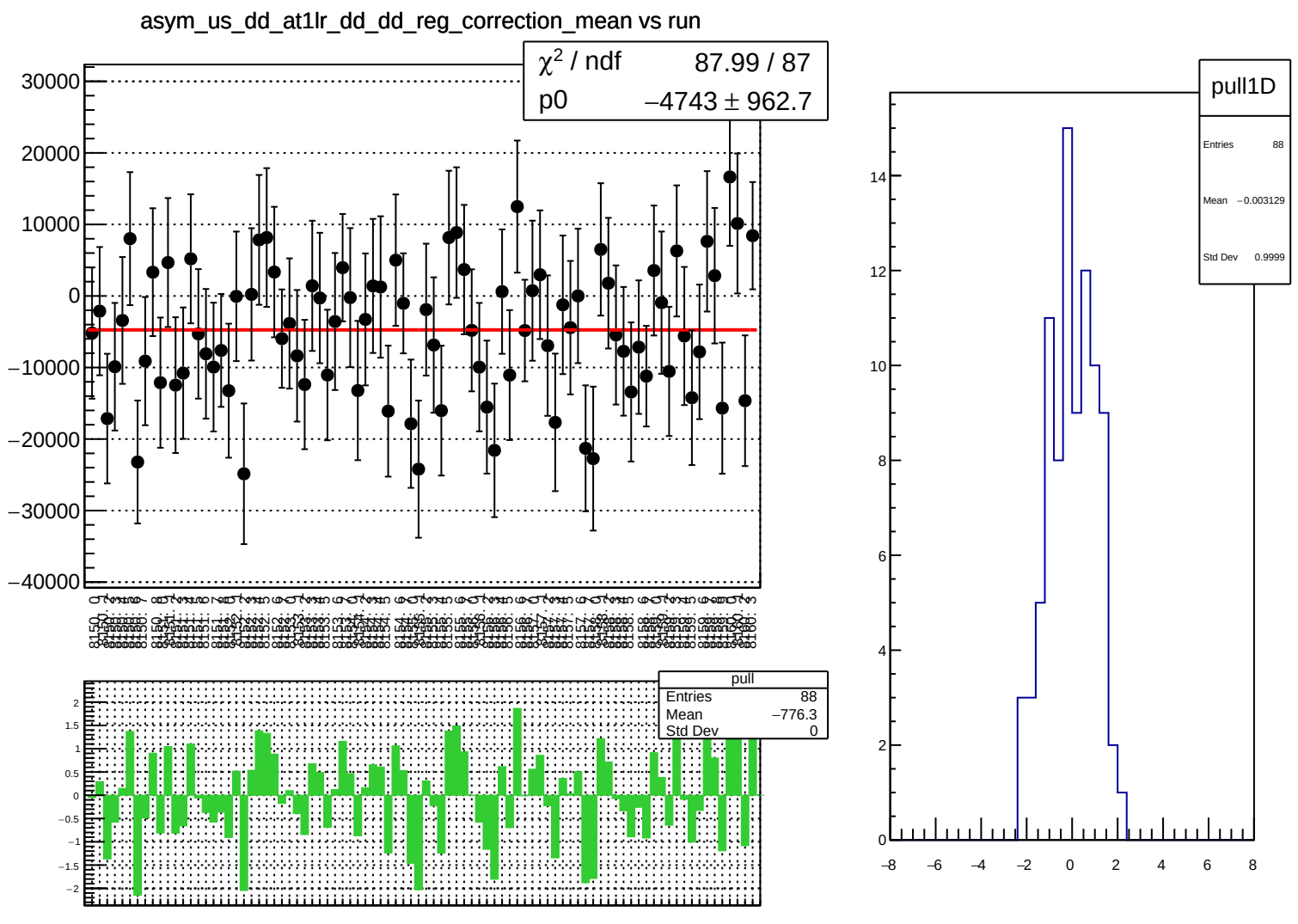

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.373e+05 / 87
p0 60.47 ± 0.04874
120
110
100
90
80
70
60
50
40
30

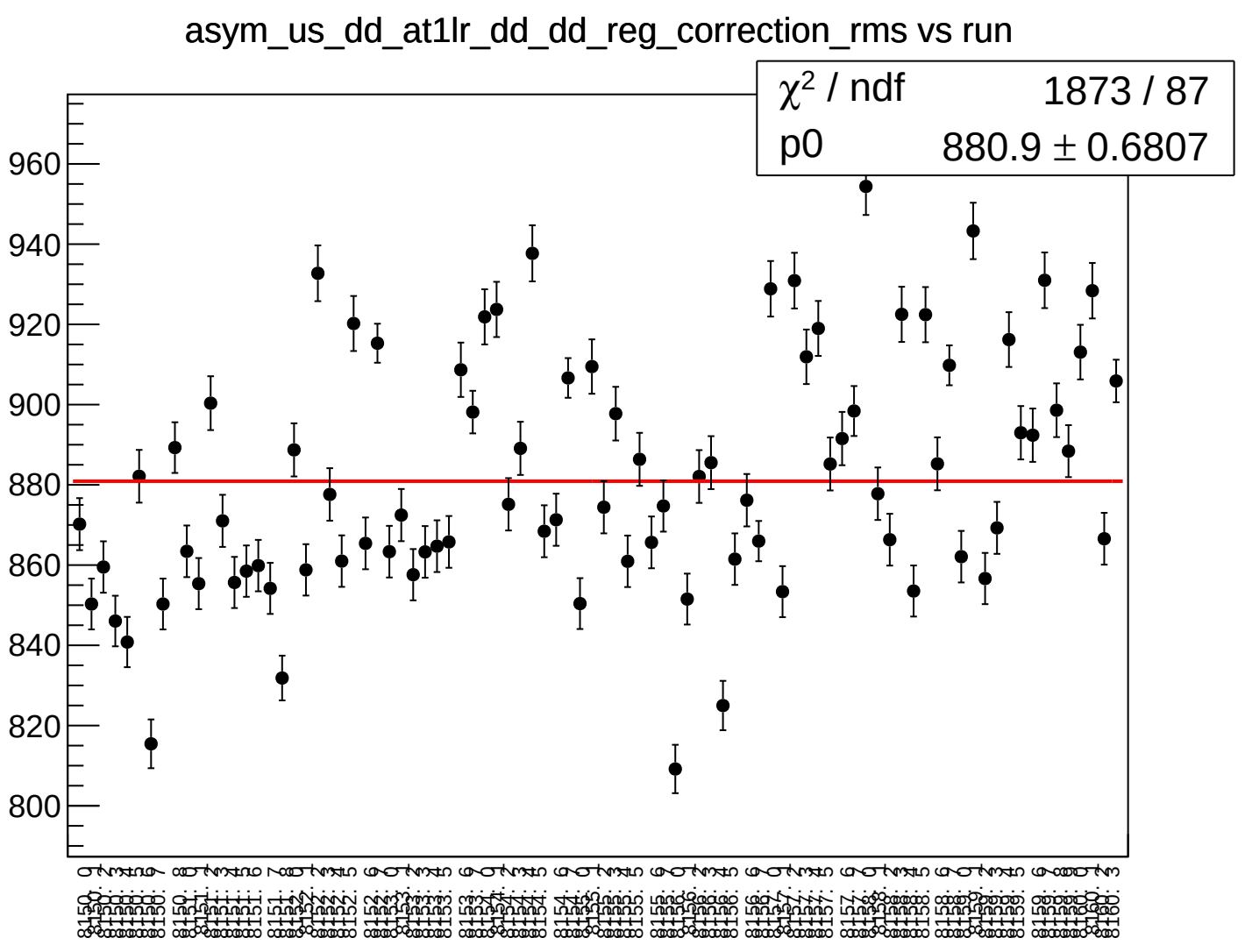

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.24 / 87
p0 3.339e−14 ± 8.712e−14
pull
Entries 88
Mean 34.18
Std Dev 33.29
pull1D
Entries 88
Mean 0.07259
Std Dev 0.9279

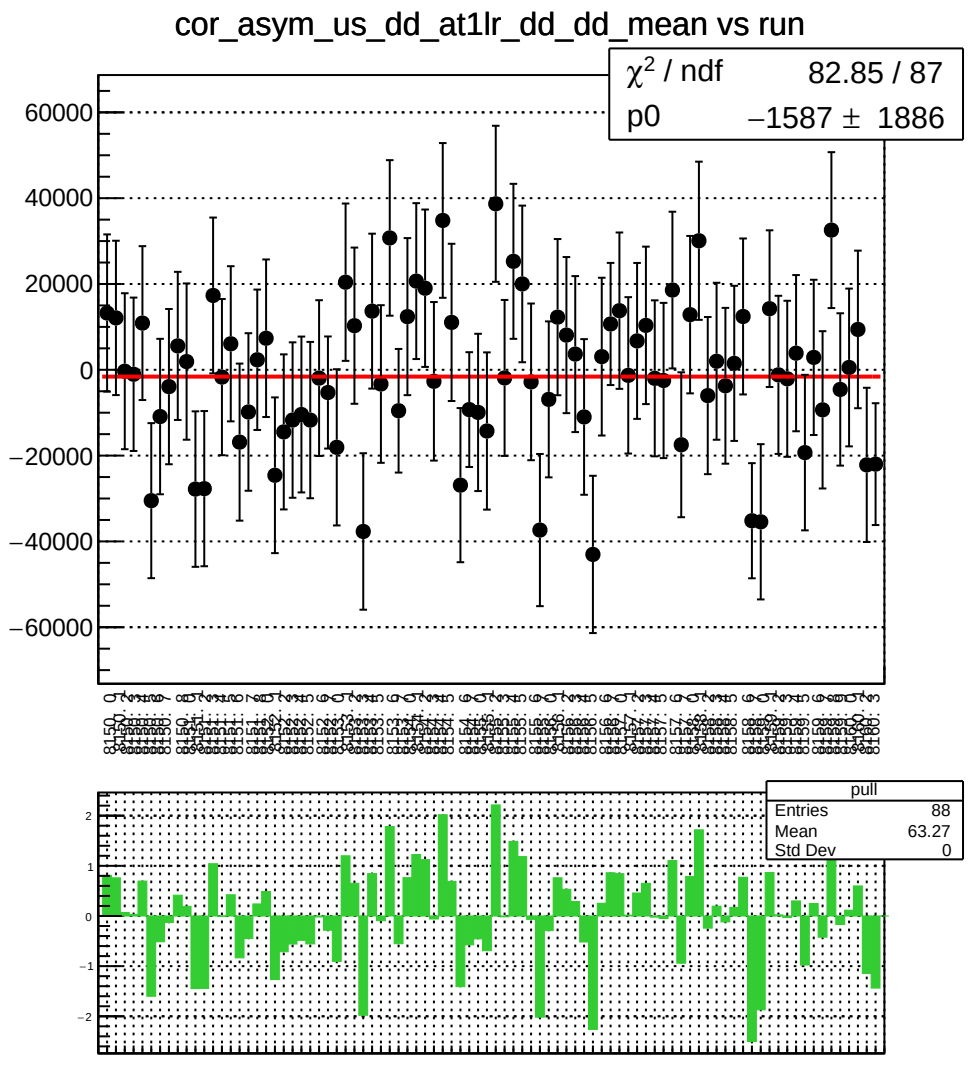

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.721e+05 / 87
p0 6.761e−11 ± 6.16e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

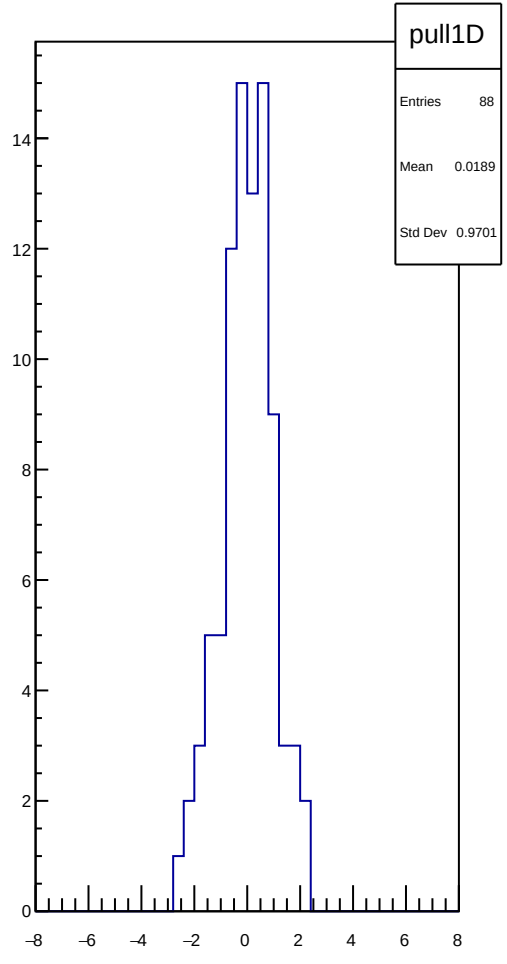

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 82.85 / 87
p0 −1587 ± 1886
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 63.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0189
Std Dev 0.9701
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

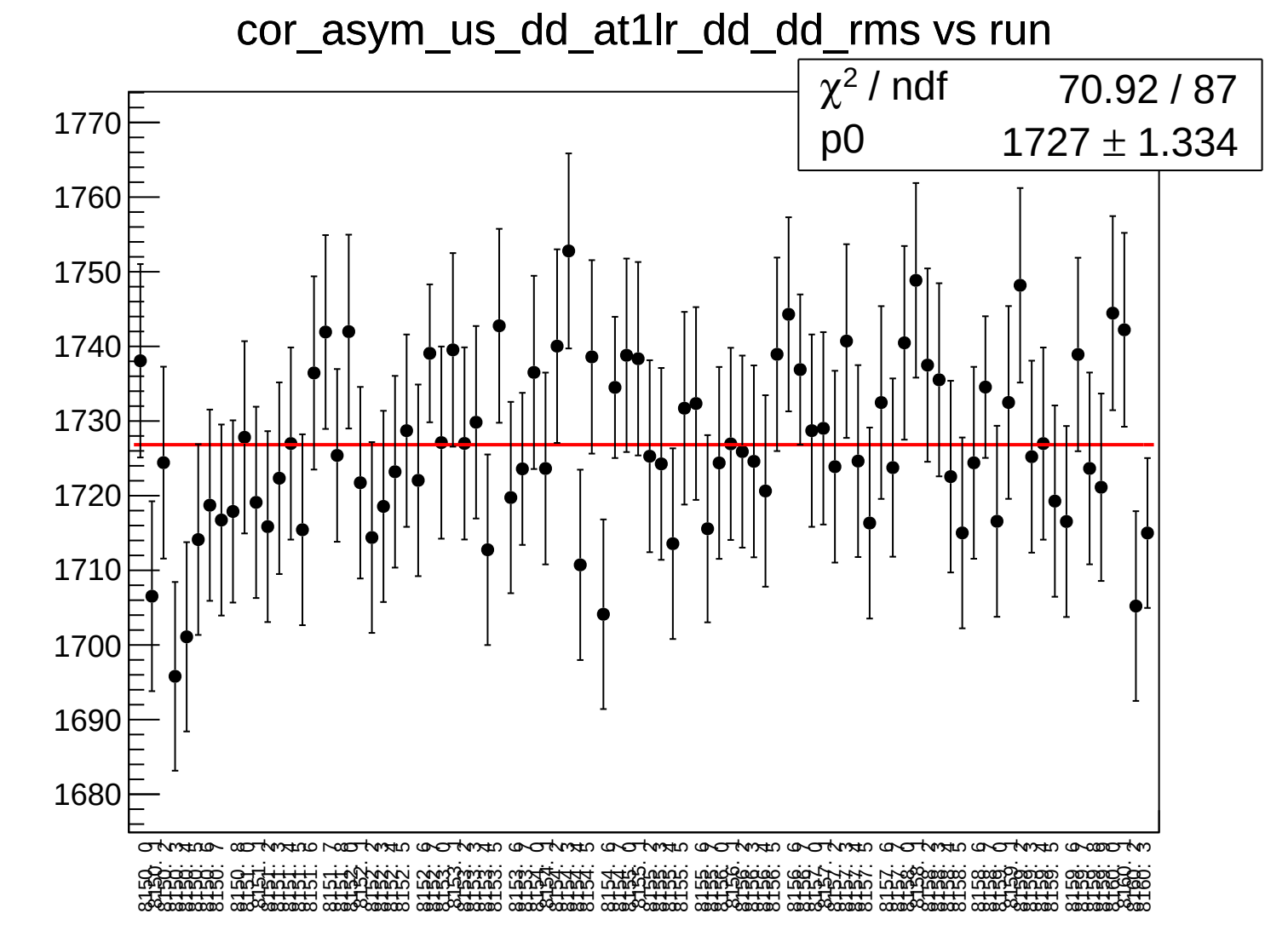

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 70.92 / 87
p0 1727 ± 1.334
1770
1760
1750
1740
1730
1720
1710
1700
1690
1680

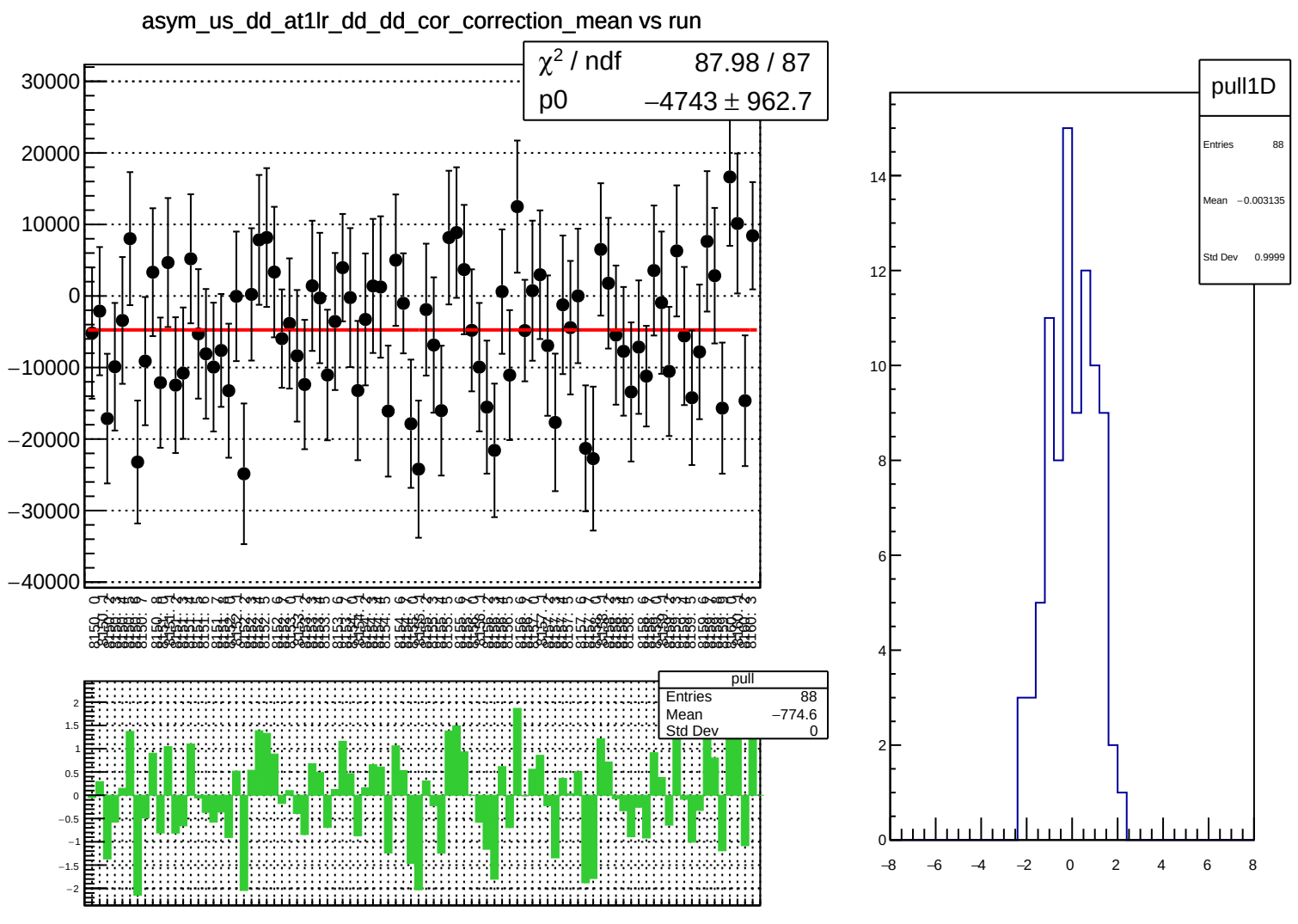

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 87.99 / 87
p0 −4743 ± 962.7
pull
Entries 88
Mean −776.3
Std Dev 0
pull1D
Entries 88
Mean −0.003129
Std Dev 0.9999

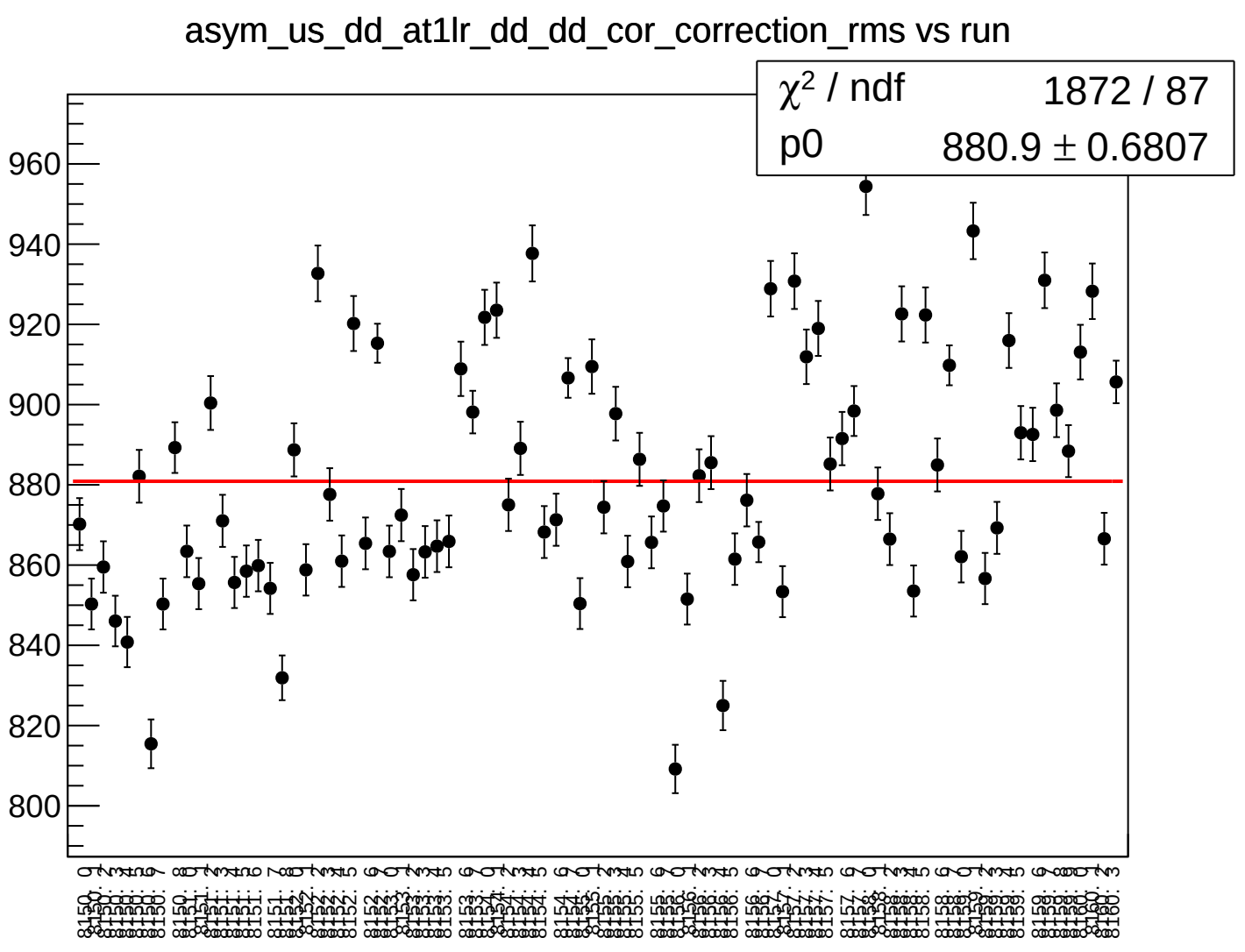

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1873 / 87
p0 880.9 ± 0.6807
960
940
920
900
880
860
840
820
800

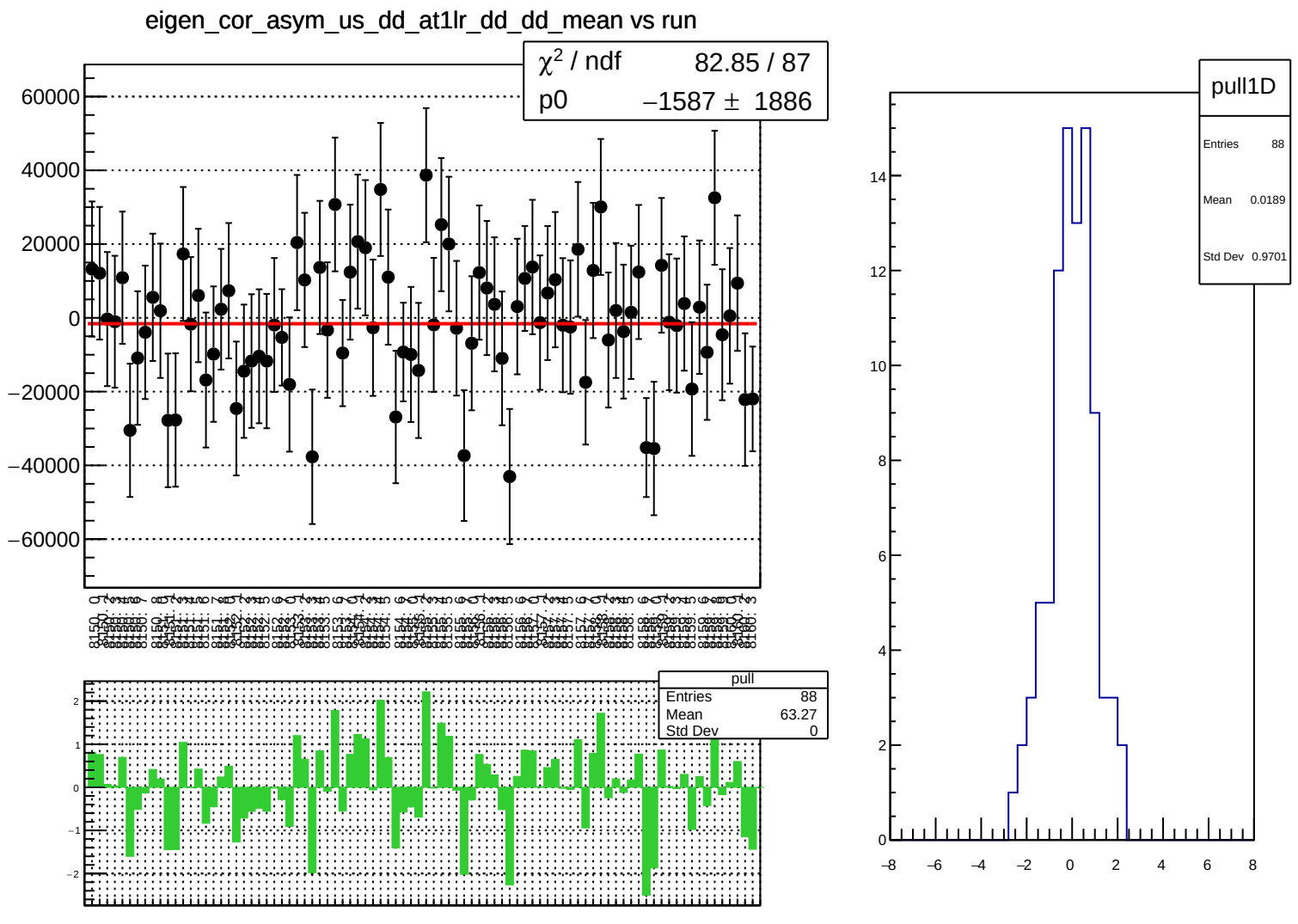

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 82.85 / 87
p0 −1587 ± 1886
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 63.27
Std Dev 0
2
1
0
−1
−2

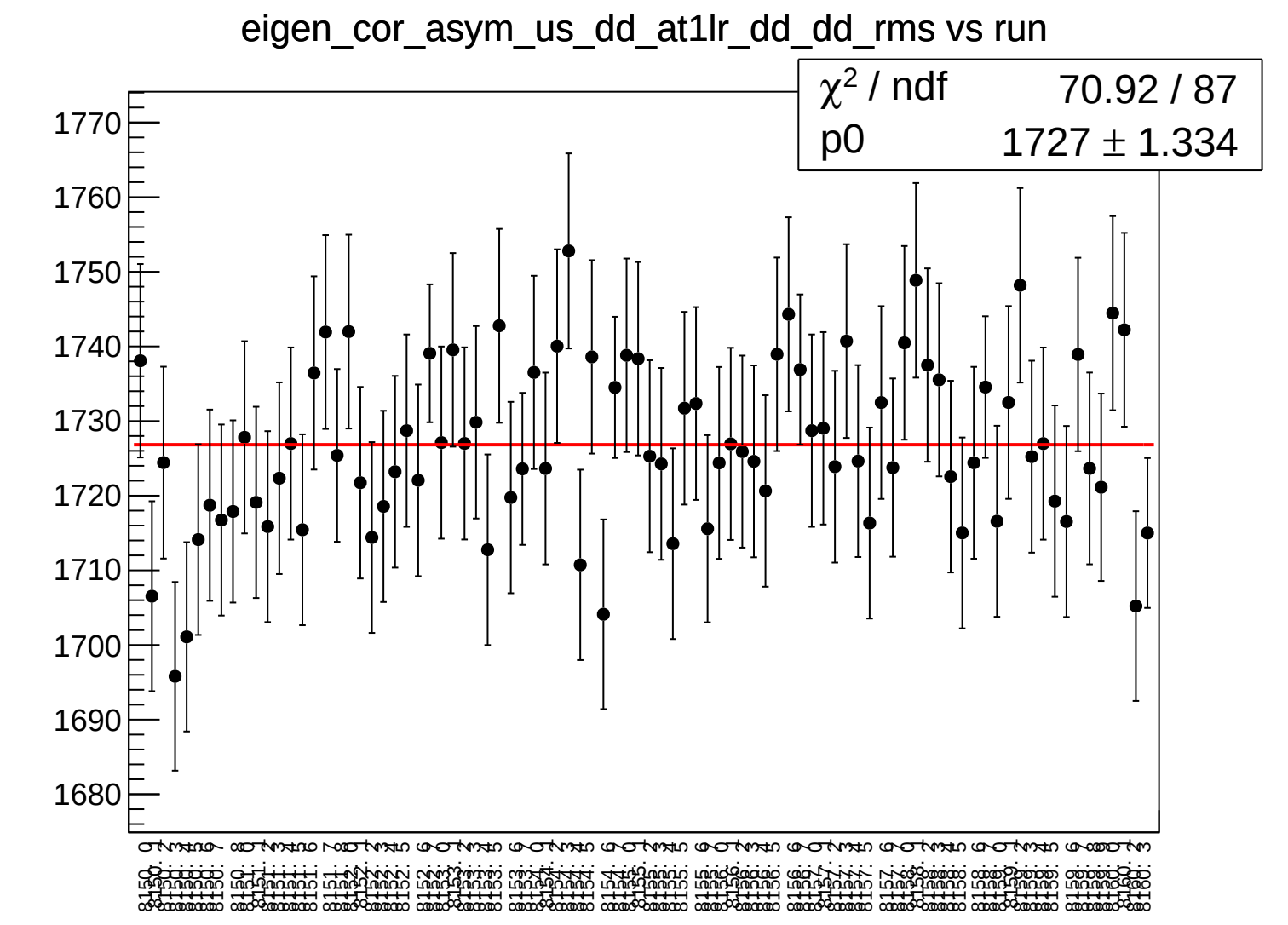

pull1D
Entries 88
Mean 0.0189
Std Dev 0.9701
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

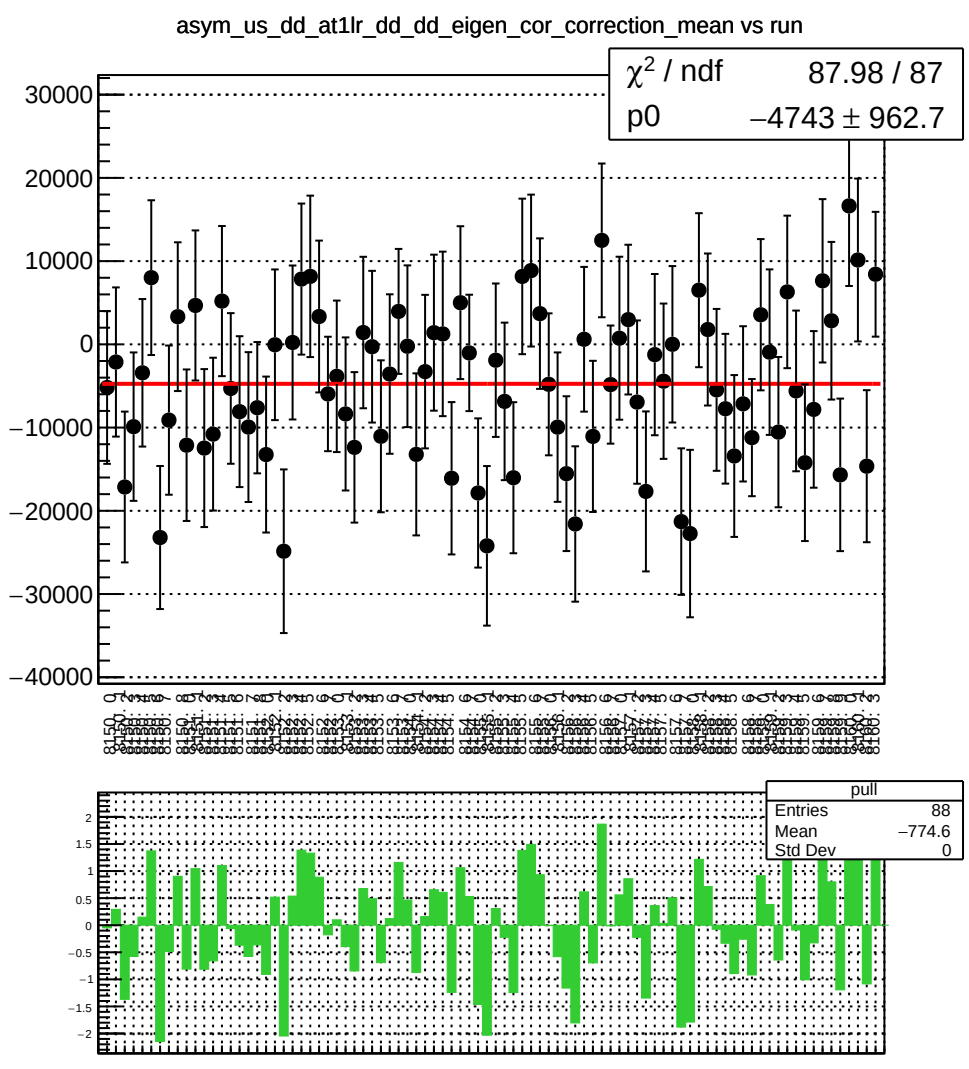

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 70.92 / 87
p0 1727 ± 1.334
1770
1760
1750
1740
1730
1720
1710
1700
1690
1680

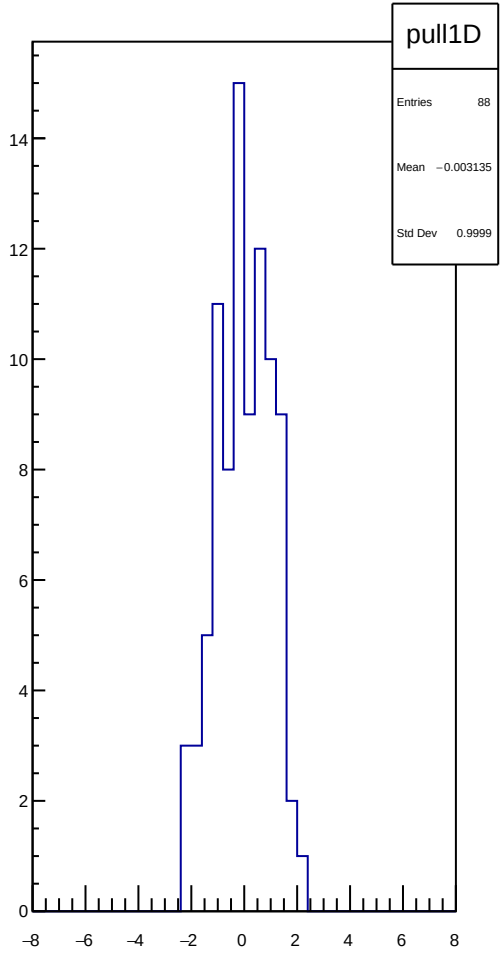

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 87.98 / 87
p0 −4743 ± 962.7
pull
Entries 88
Mean −774.6
Std Dev 0
pull1D
Entries 88
Mean −0.003135
Std Dev 0.9999

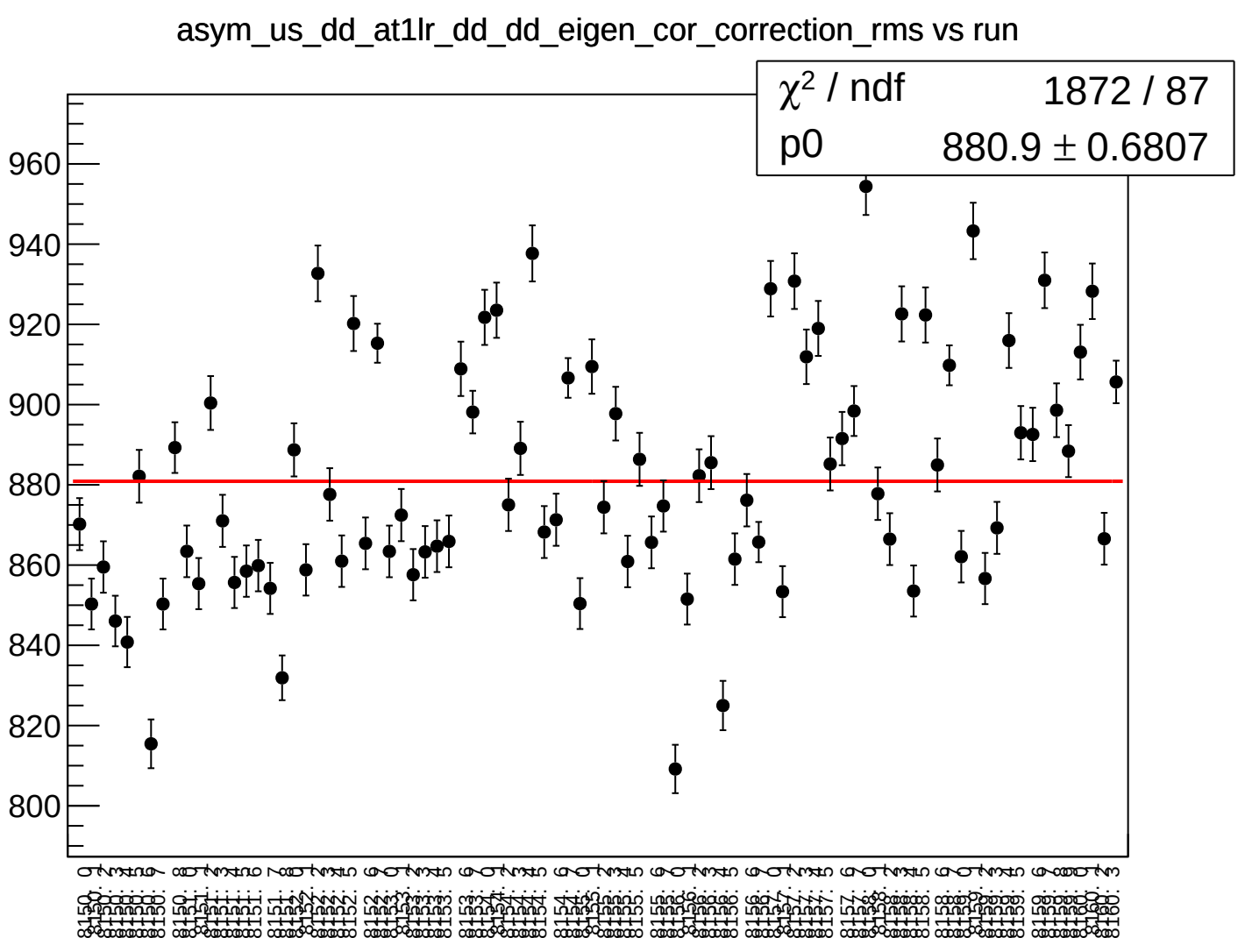

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1872 / 87
p0 880.9 ± 0.6807
960
940
920
900
880
860
840
820
800

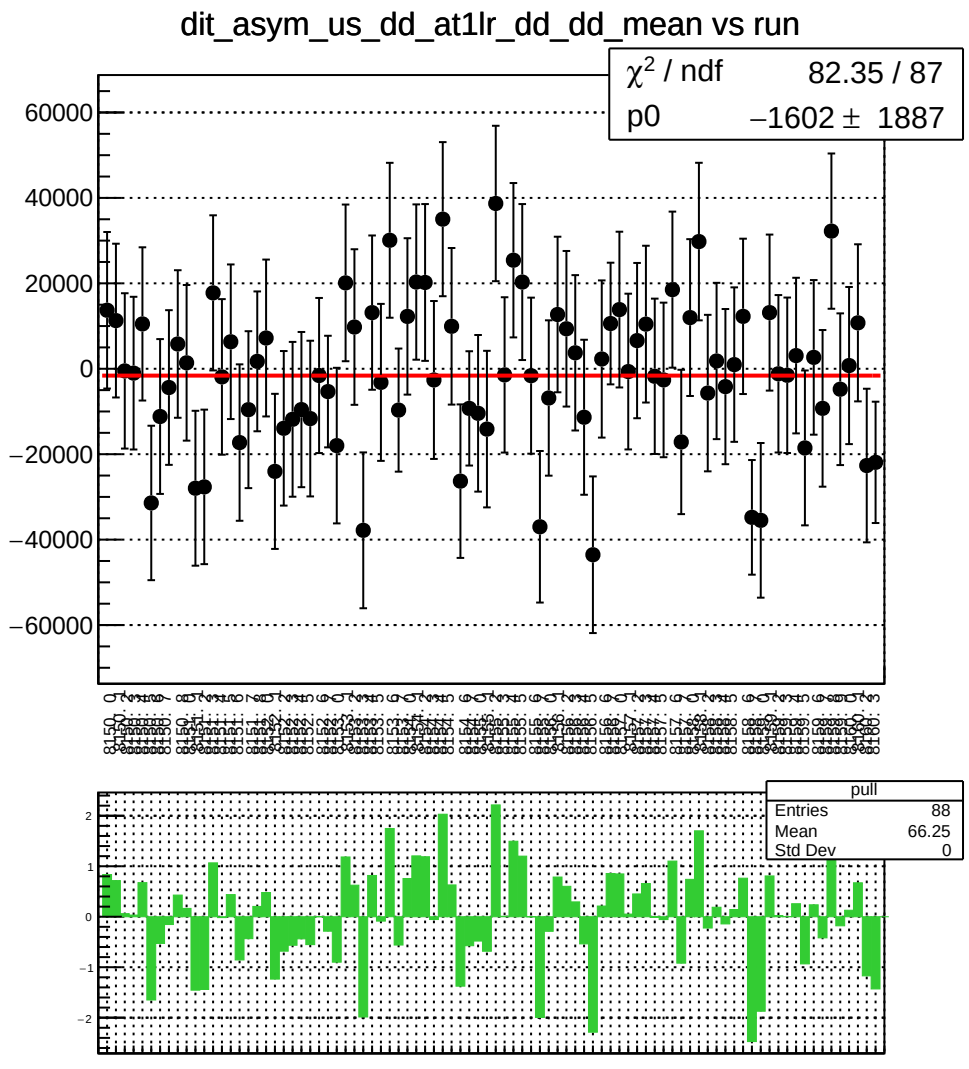

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 82.85 / 87
p0 −1587 ± 1886
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 63.27
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0189
Std Dev 0.9701
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

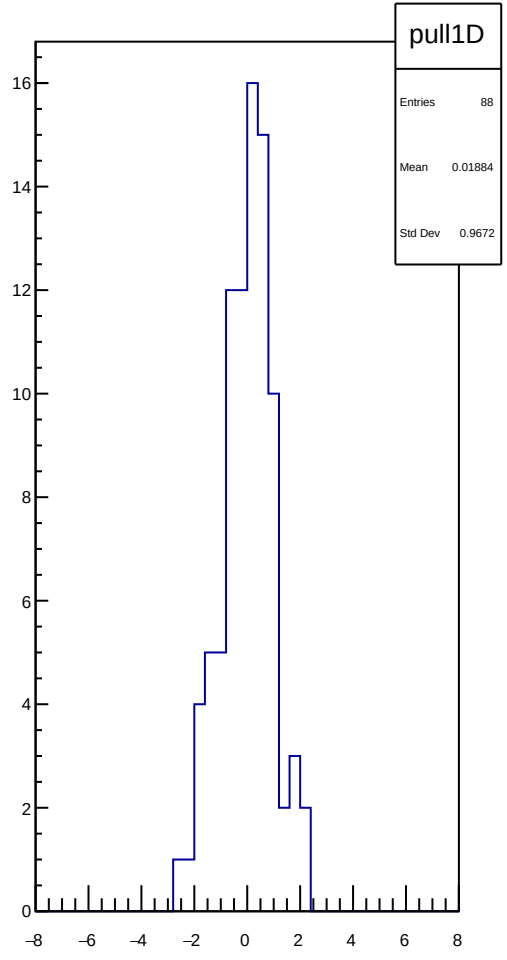

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 70.92 / 87
p0 1727 ± 1.334
1770
1760
1750
1740
1730
1720
1710
1700
1690
1680

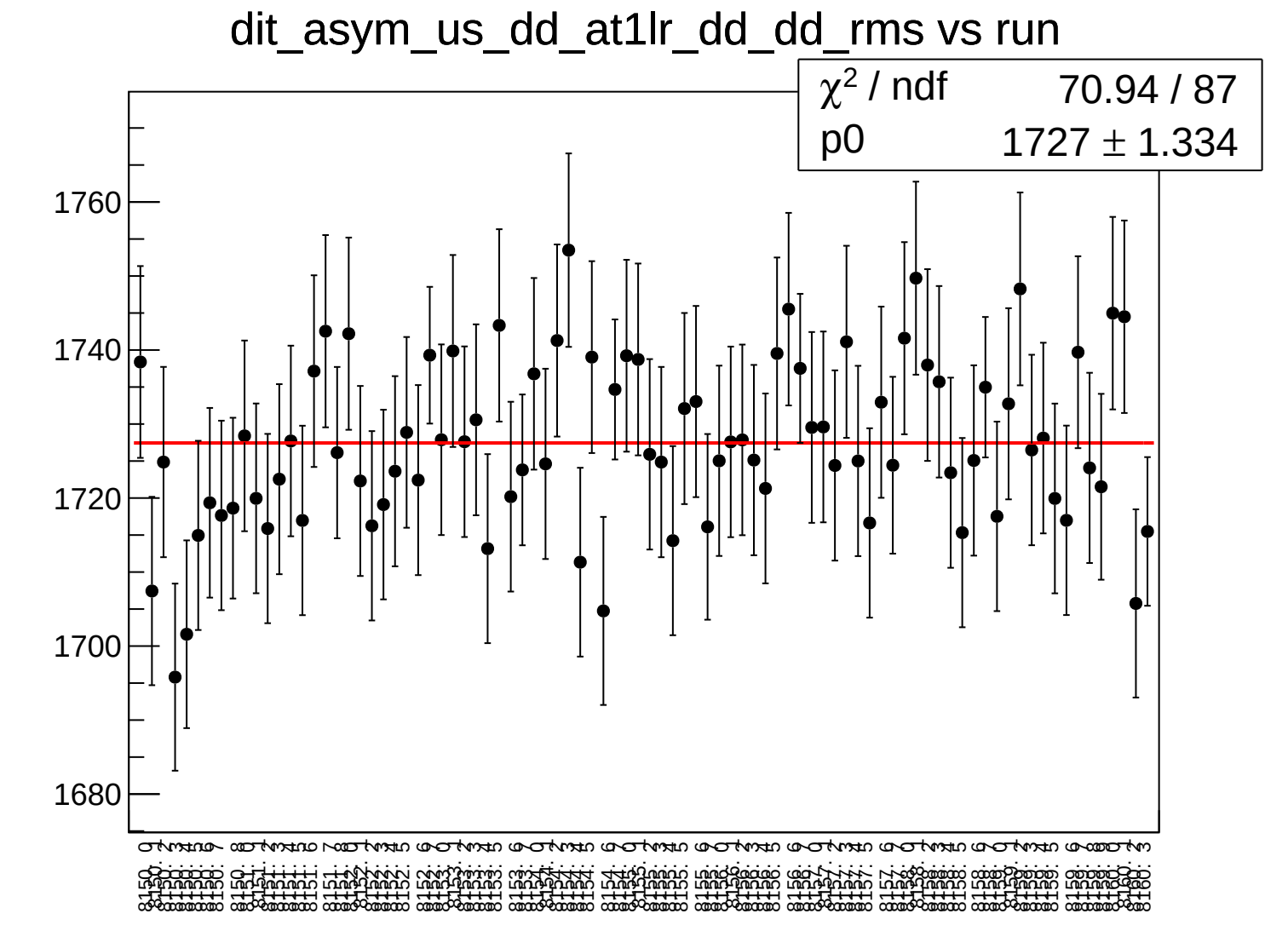

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.98 / 87
p0 −4743 ± 962.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −774.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

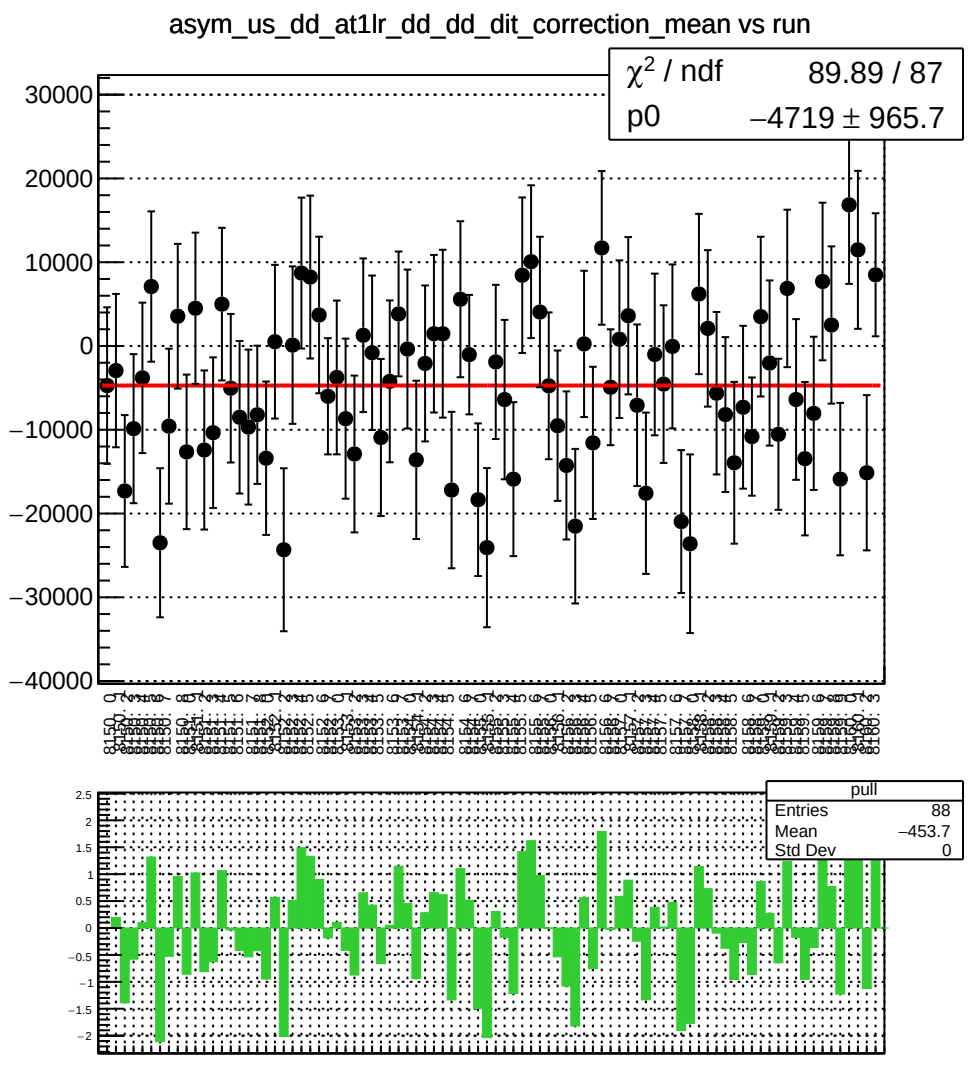

pull1D
Entries 88
Mean −0.003135
Std Dev 0.9999
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

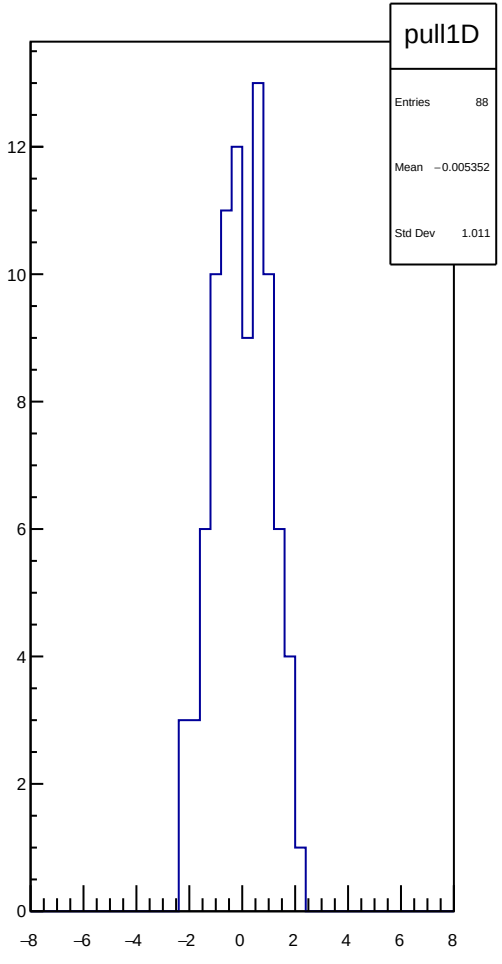

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1872 / 87
p0 880.9 ± 0.6807
960
940
920
900
880
860
840
820
800

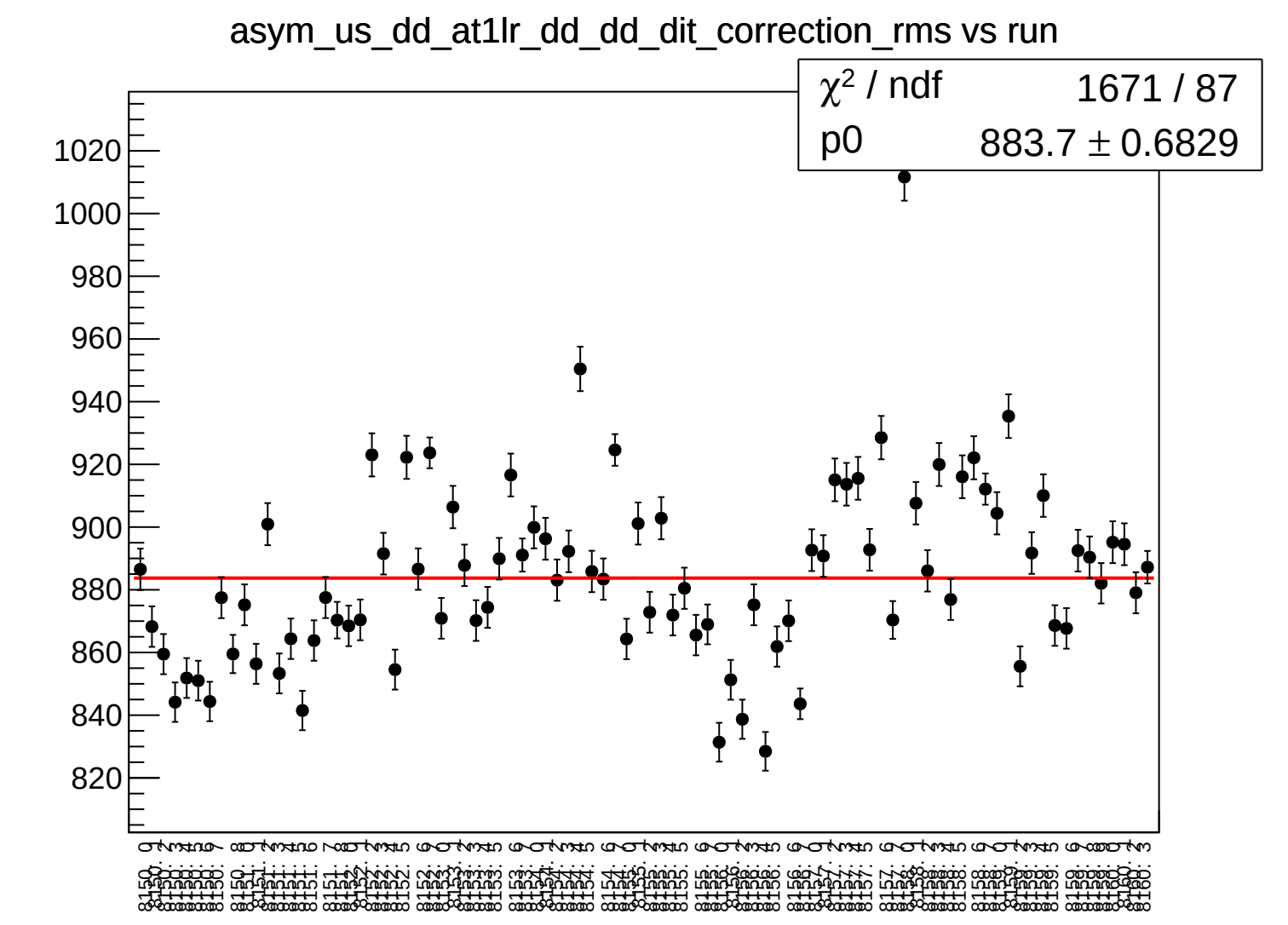

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 82.35 / 87
p0 −1602 ± 1887
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 66.25
Std Dev 0
2
1
0
−1
−2

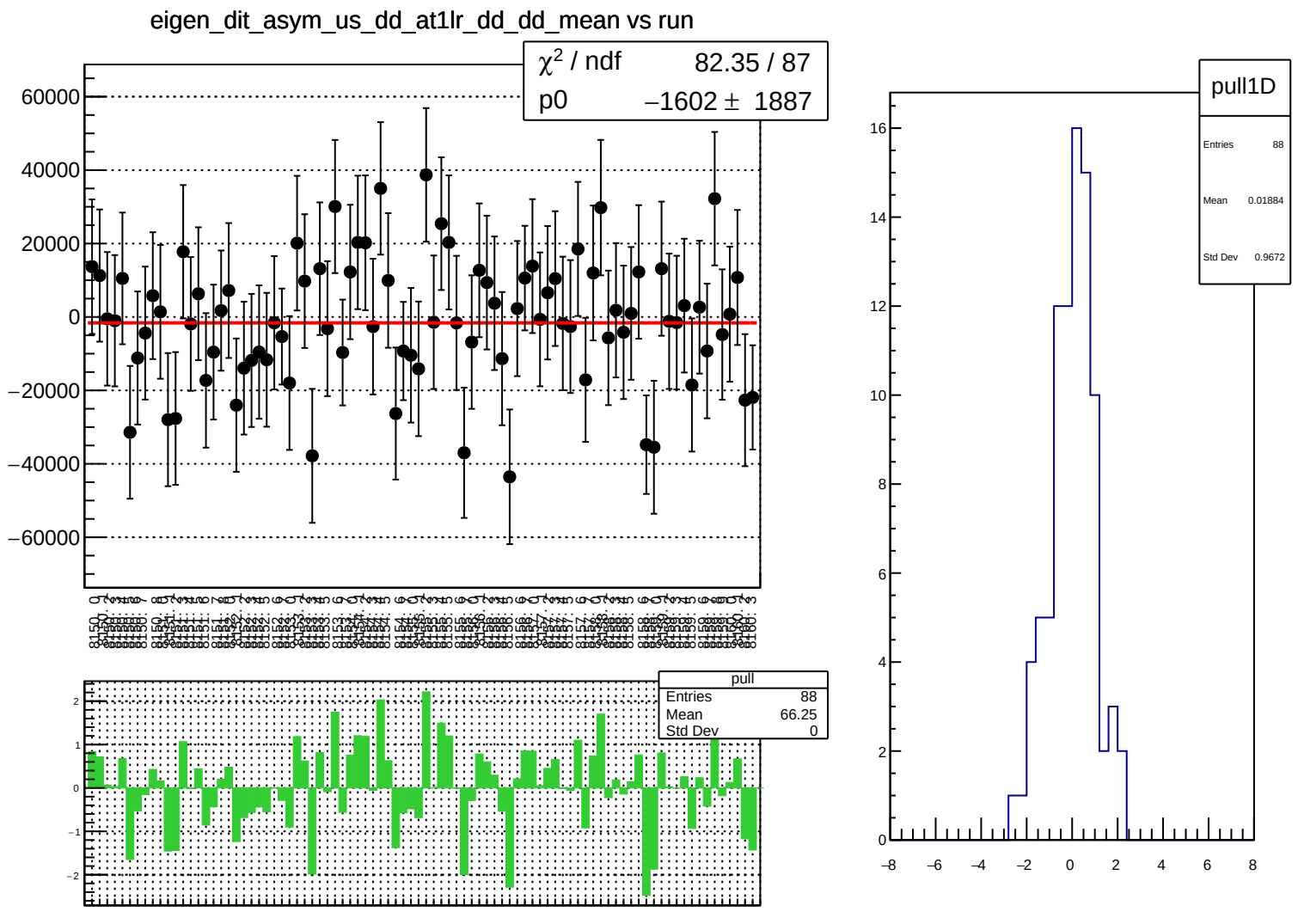

pull1D
Entries 88
Mean 0.01884
Std Dev 0.9672
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

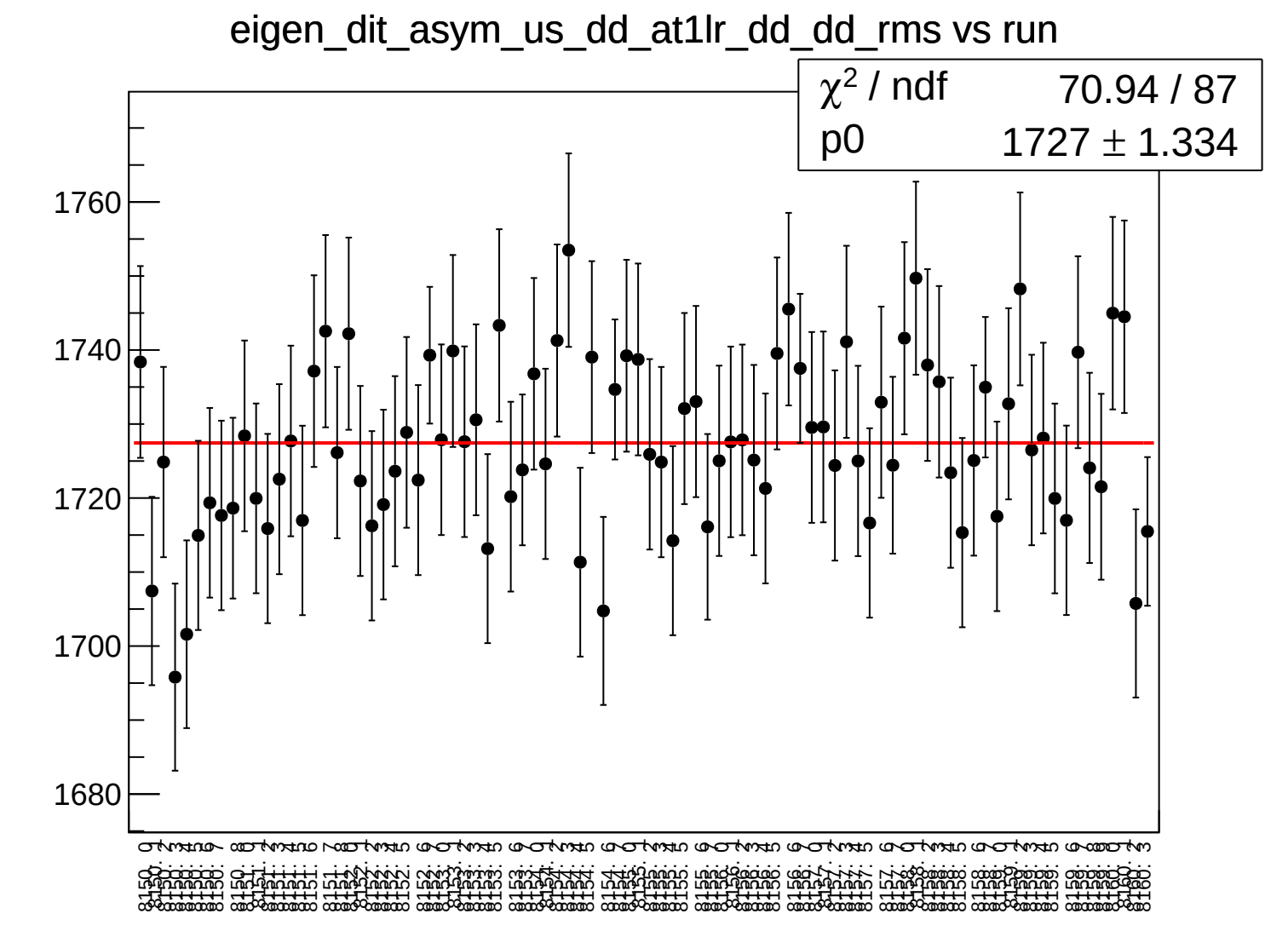

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 70.94 / 87
p0 1727 ± 1.334
1760
1740
1720
1700
1680

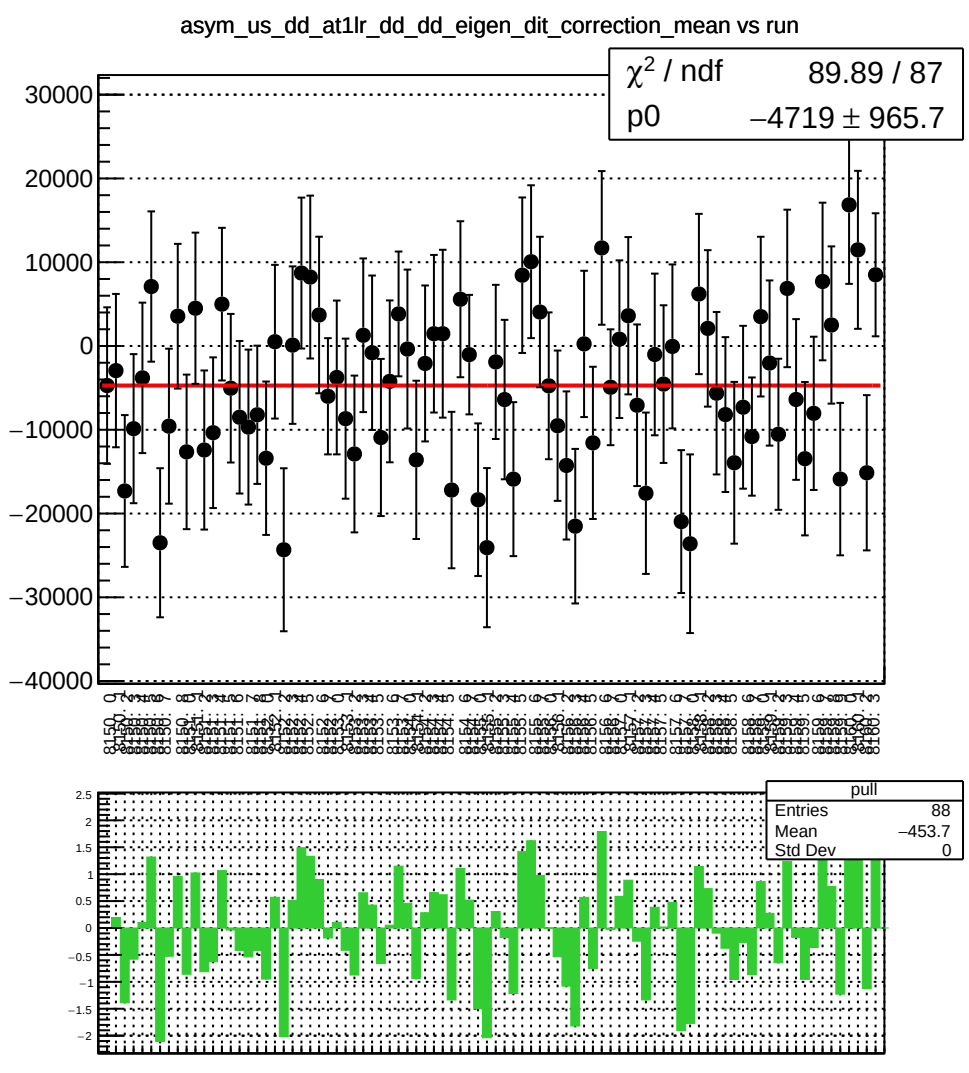

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 89.89 / 87
p0 −4719 ± 965.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −453.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

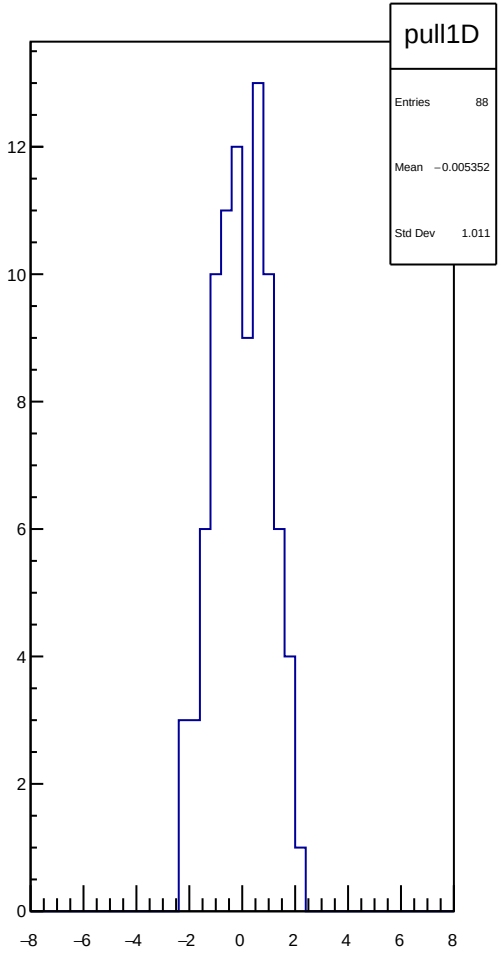

pull1D
Entries 88
Mean −0.005352
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

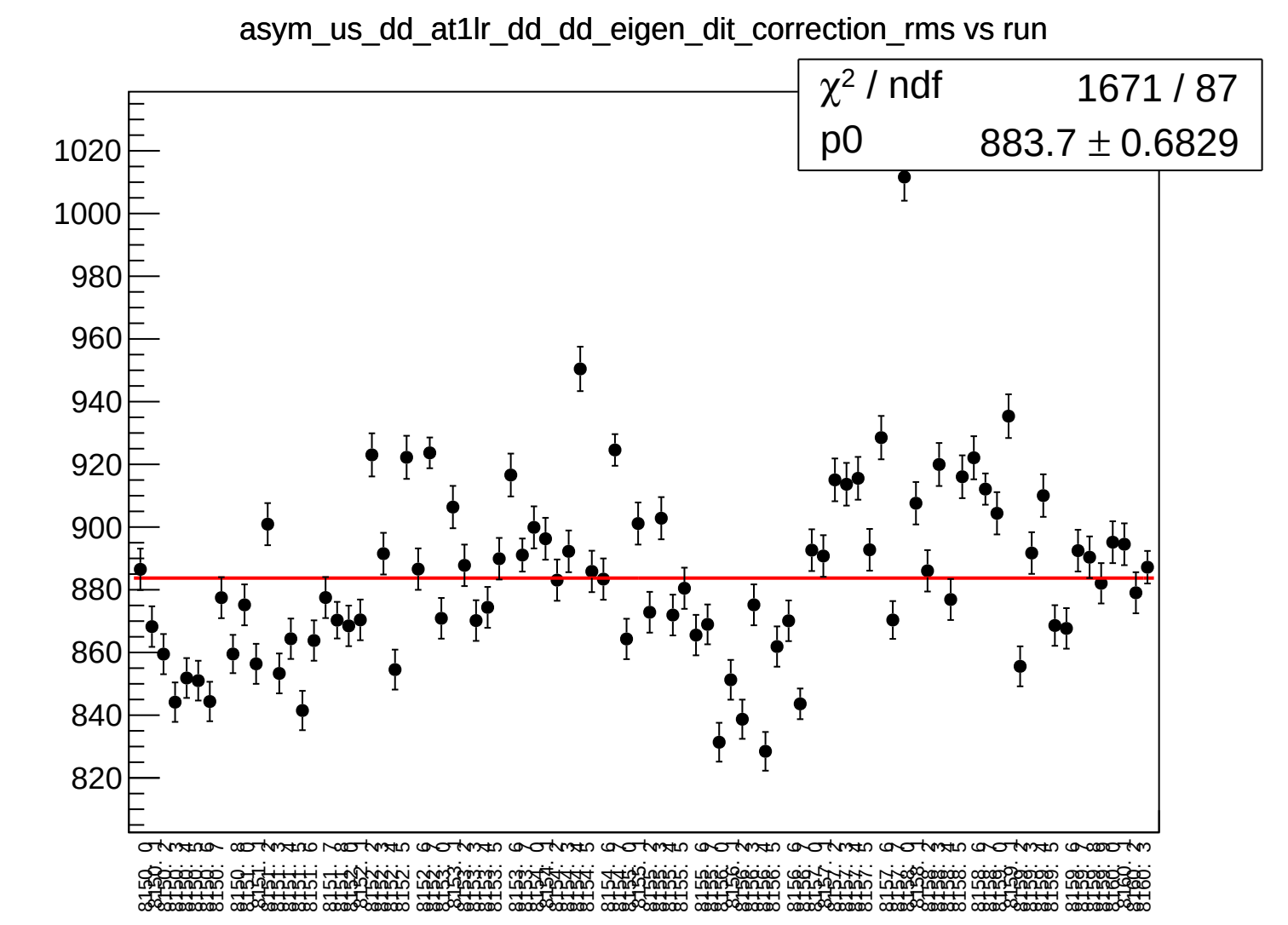

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1671 / 87
p0 883.7 ± 0.6829
1020
1000
980
960
940
920
900
880
860
840
820

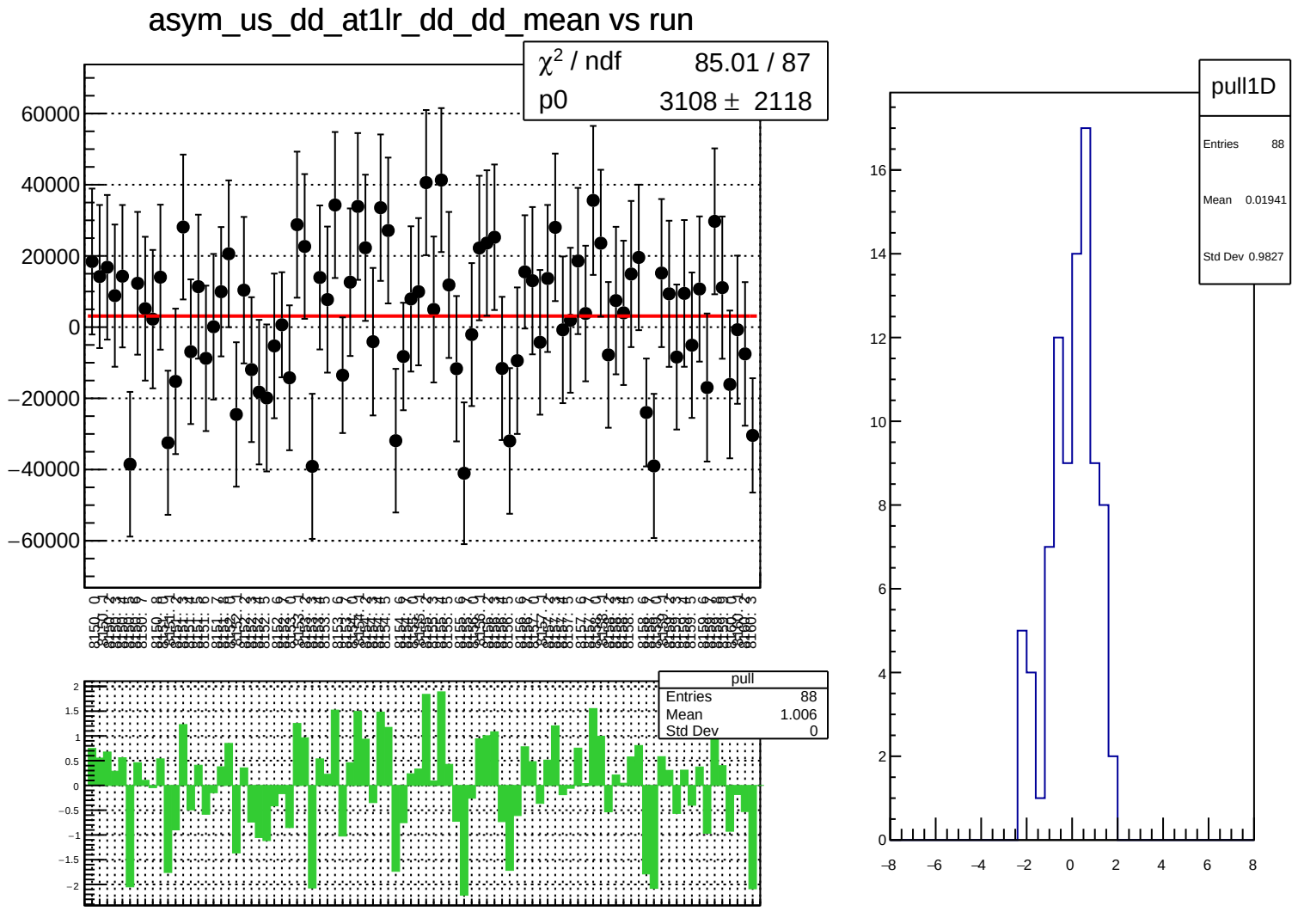

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 82.35 / 87
p0 −1602 ± 1887
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 66.25
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01884
Std Dev 0.9672
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

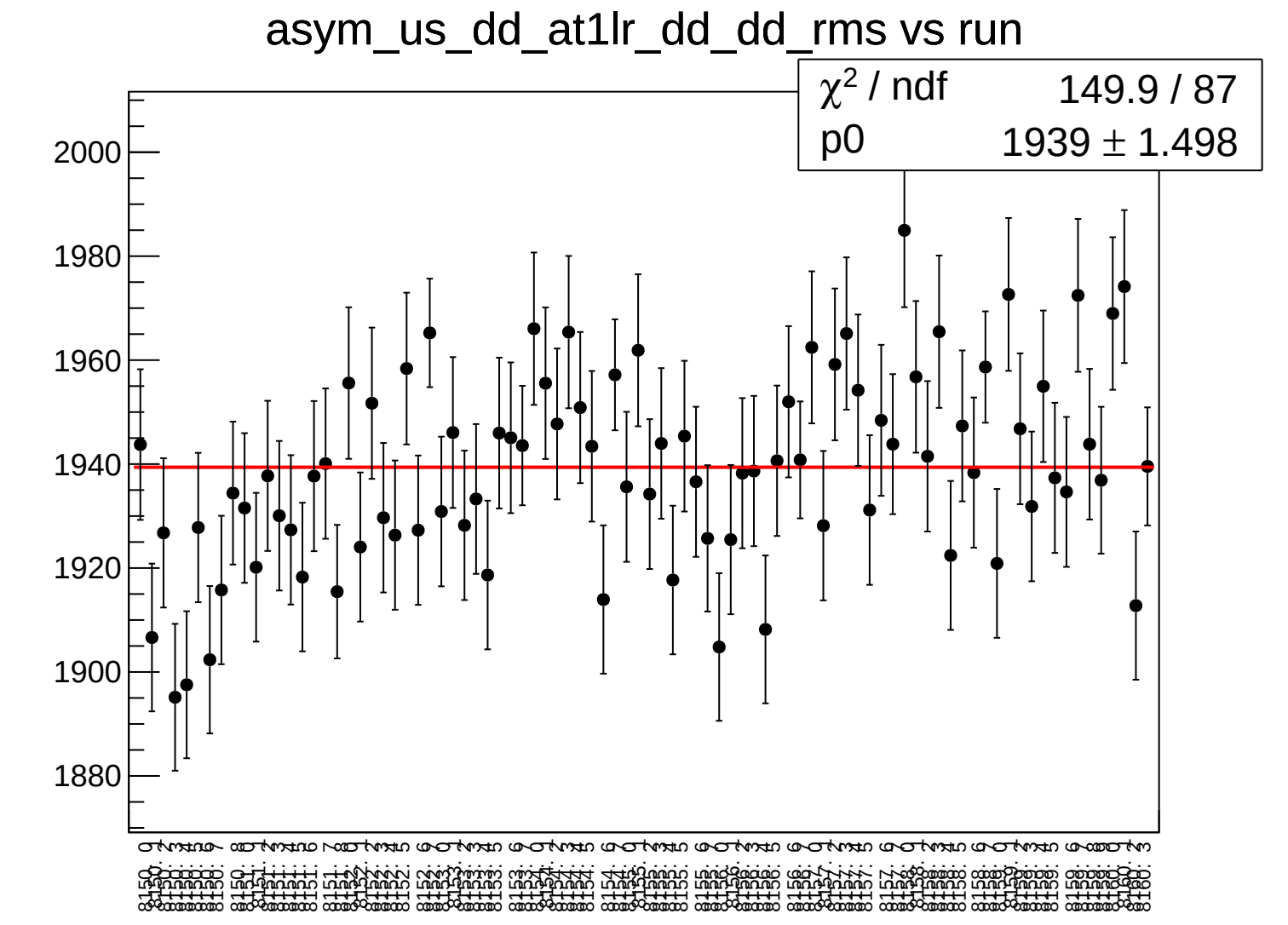

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 70.94 / 87
p0 1727 ± 1.334
1760
1740
1720
1700
1680

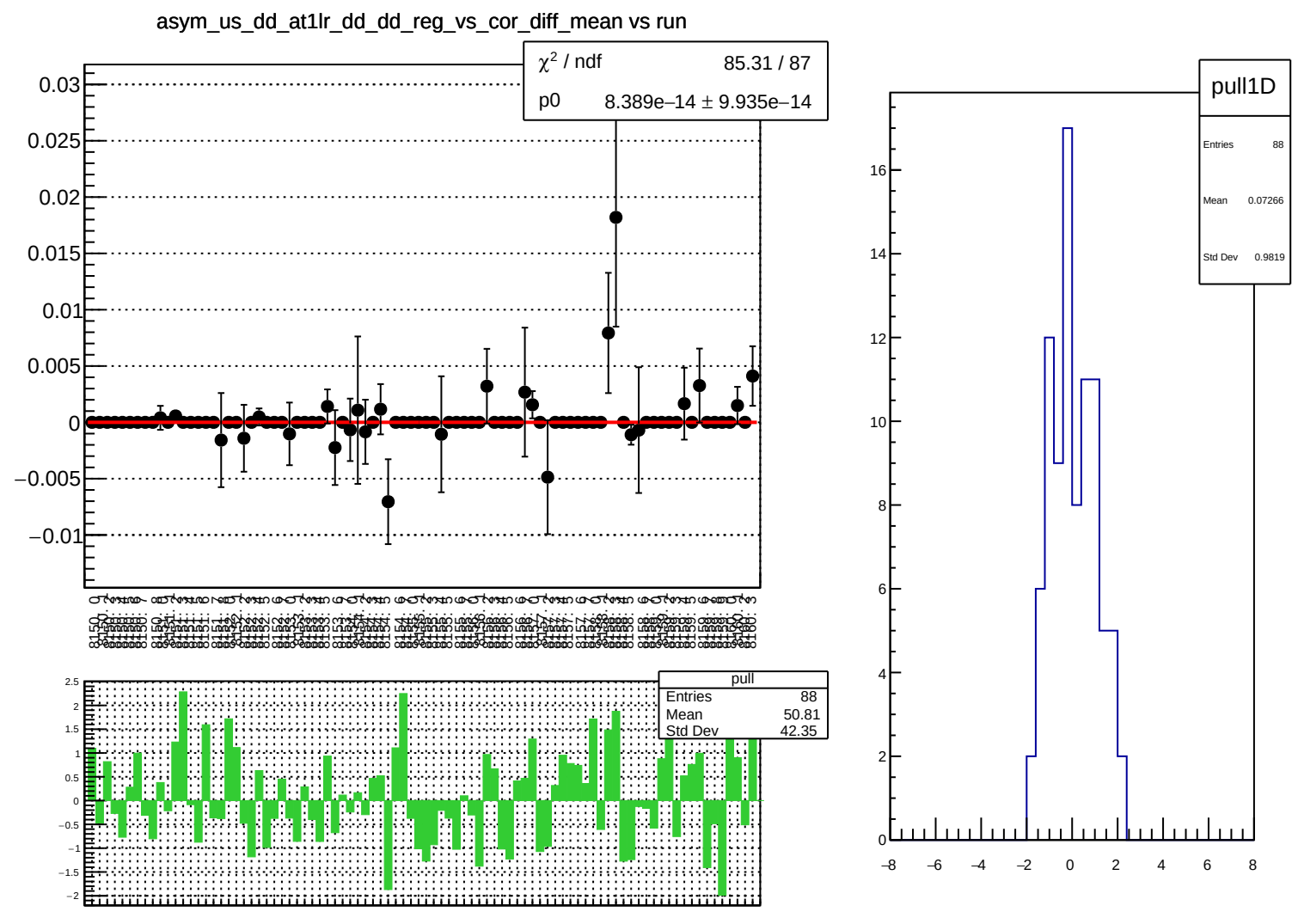

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.89 / 87
p0 −4719 ± 965.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −453.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

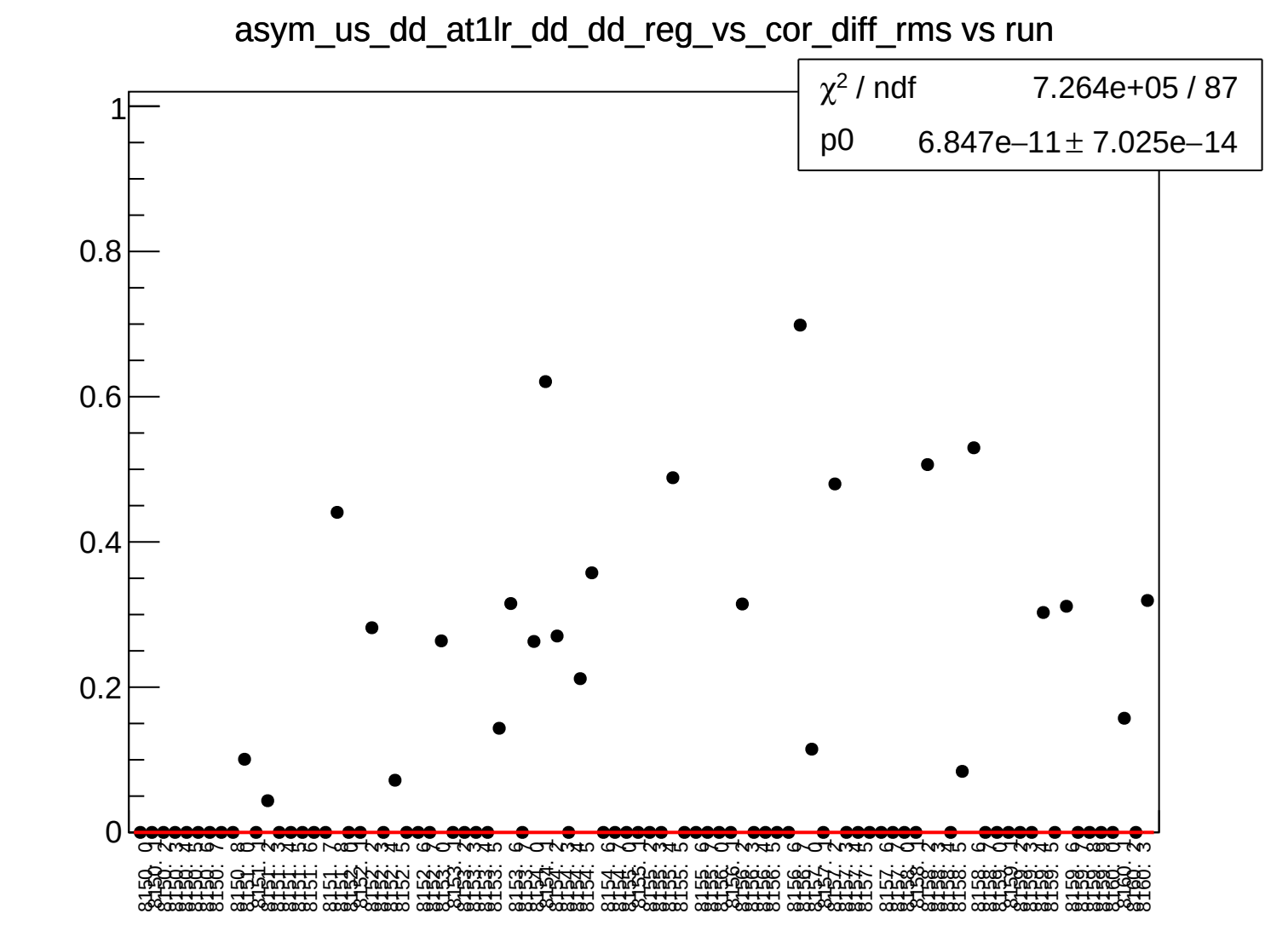

pull1D
Entries 88
Mean −0.005352
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

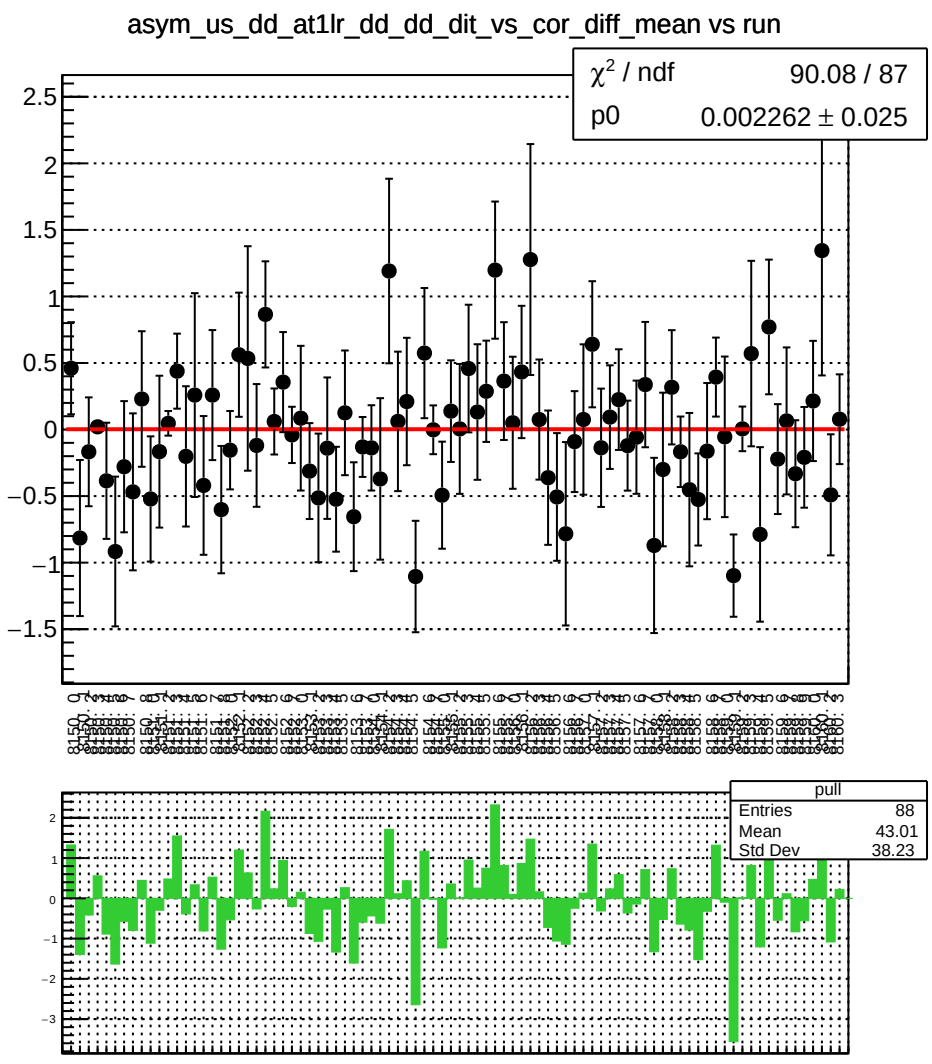

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1671 / 87
p0 883.7 ± 0.6829
1020
1000
980
960
940
920
900
880
860
840
820

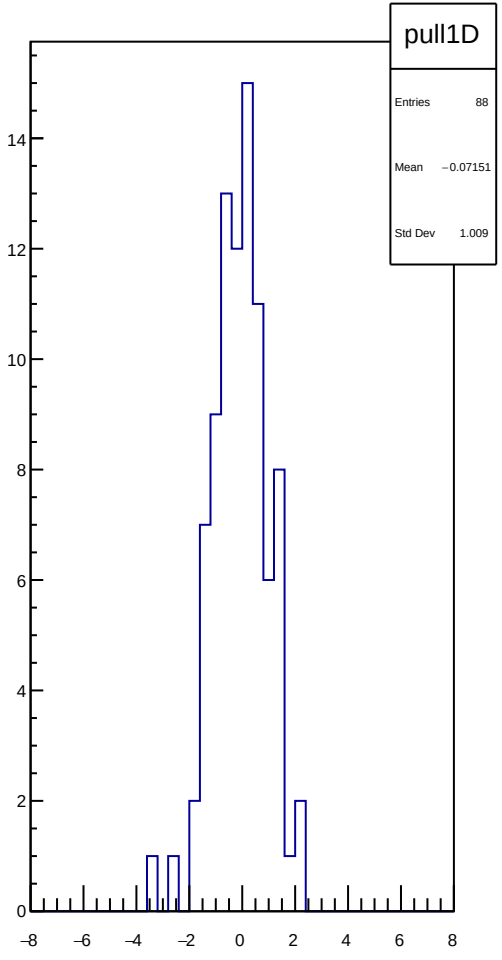

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 85.01 / 87
p0 3108 ± 2118
pull
Entries 88
Mean 1.006
Std Dev 0
pull1D
Entries 88
Mean 0.01941
Std Dev 0.9827

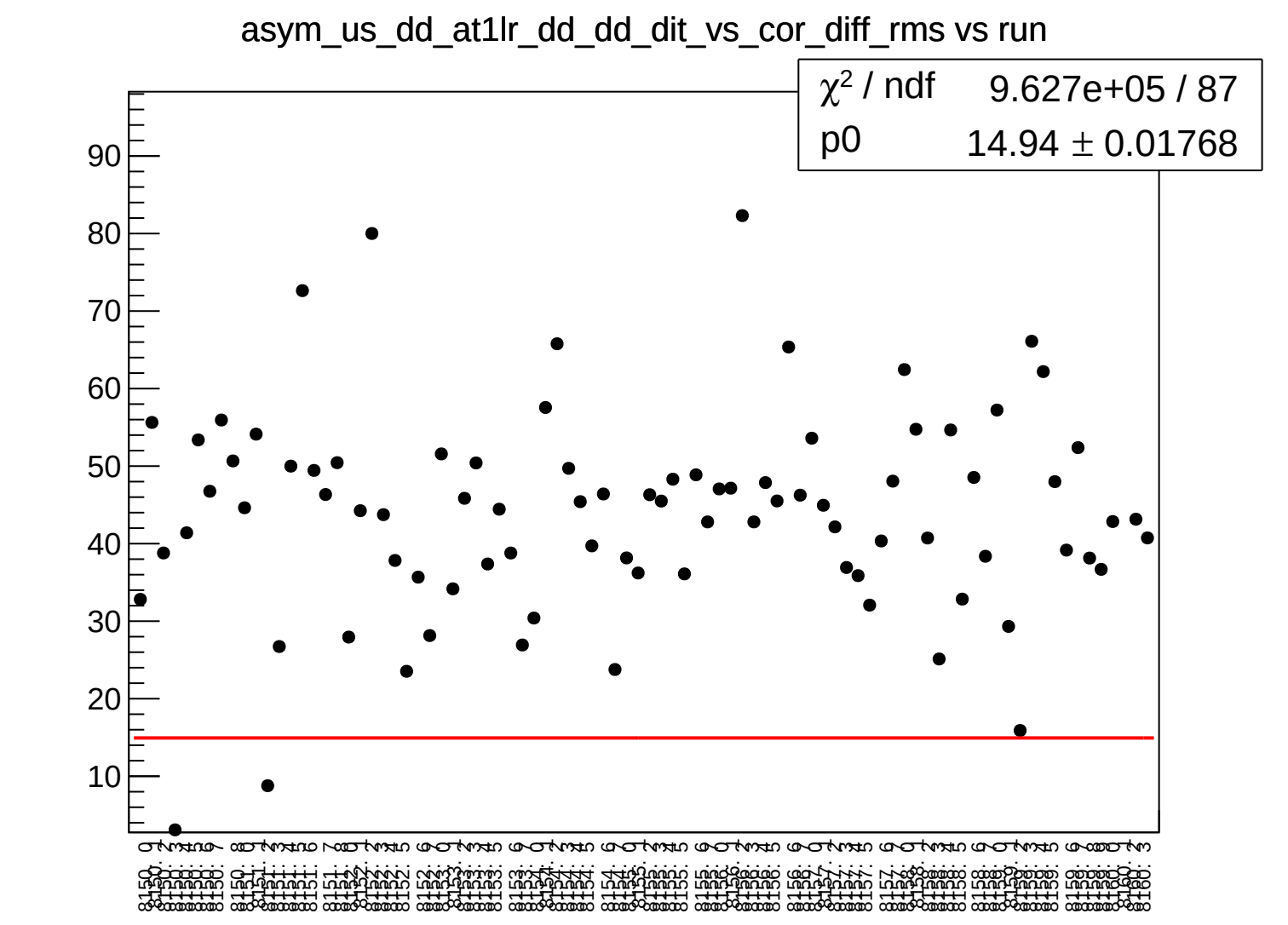

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 149.9 / 87
p0 1939 ± 1.498
2000
1980
1960
1940
1920
1900
1880

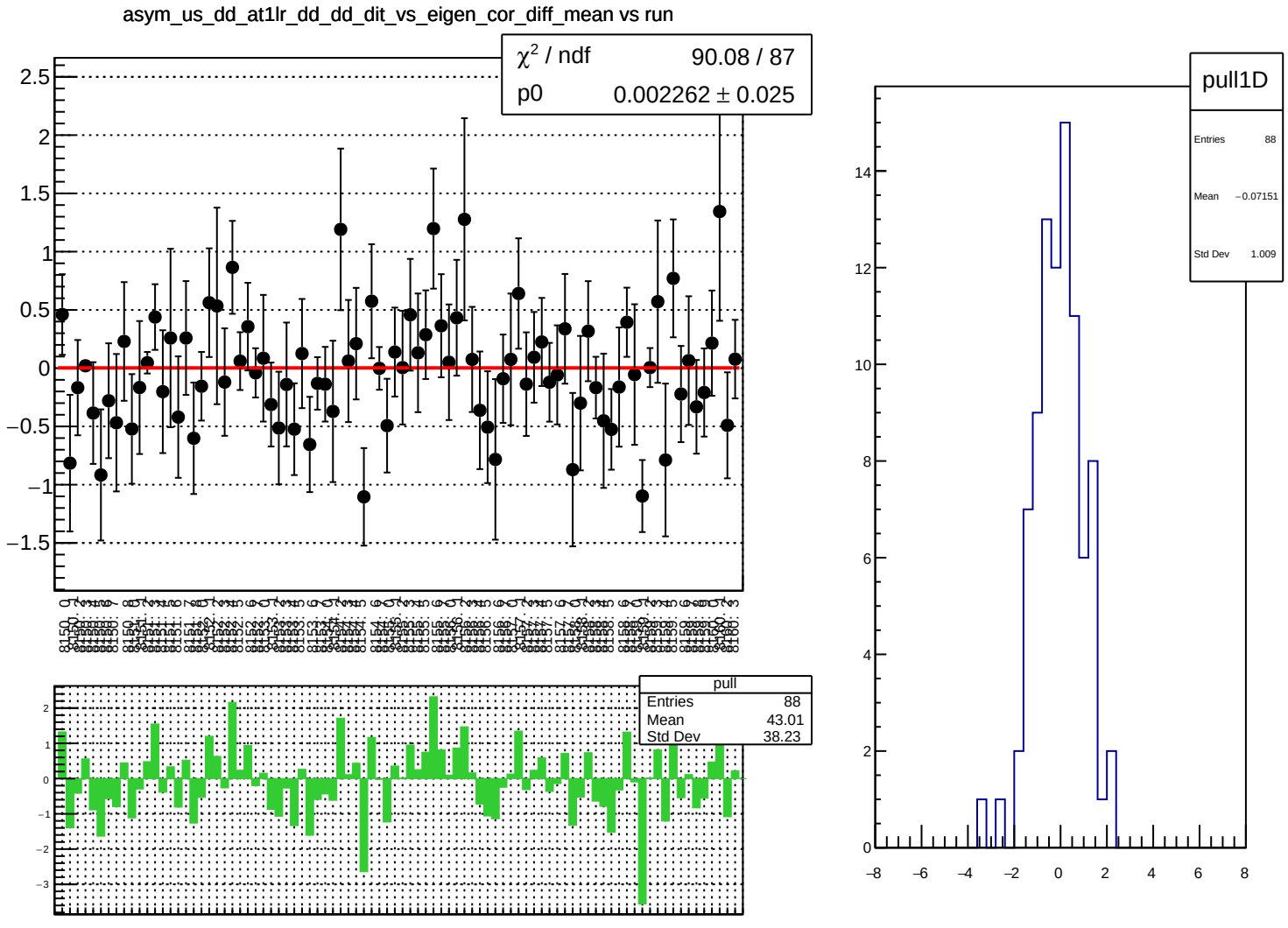

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.31 / 87
p0 8.389e−14 ± 9.935e−14
pull
Entries 88
Mean 50.81
Std Dev 42.35
pull1D
Entries 88
Mean 0.07266
Std Dev 0.9819

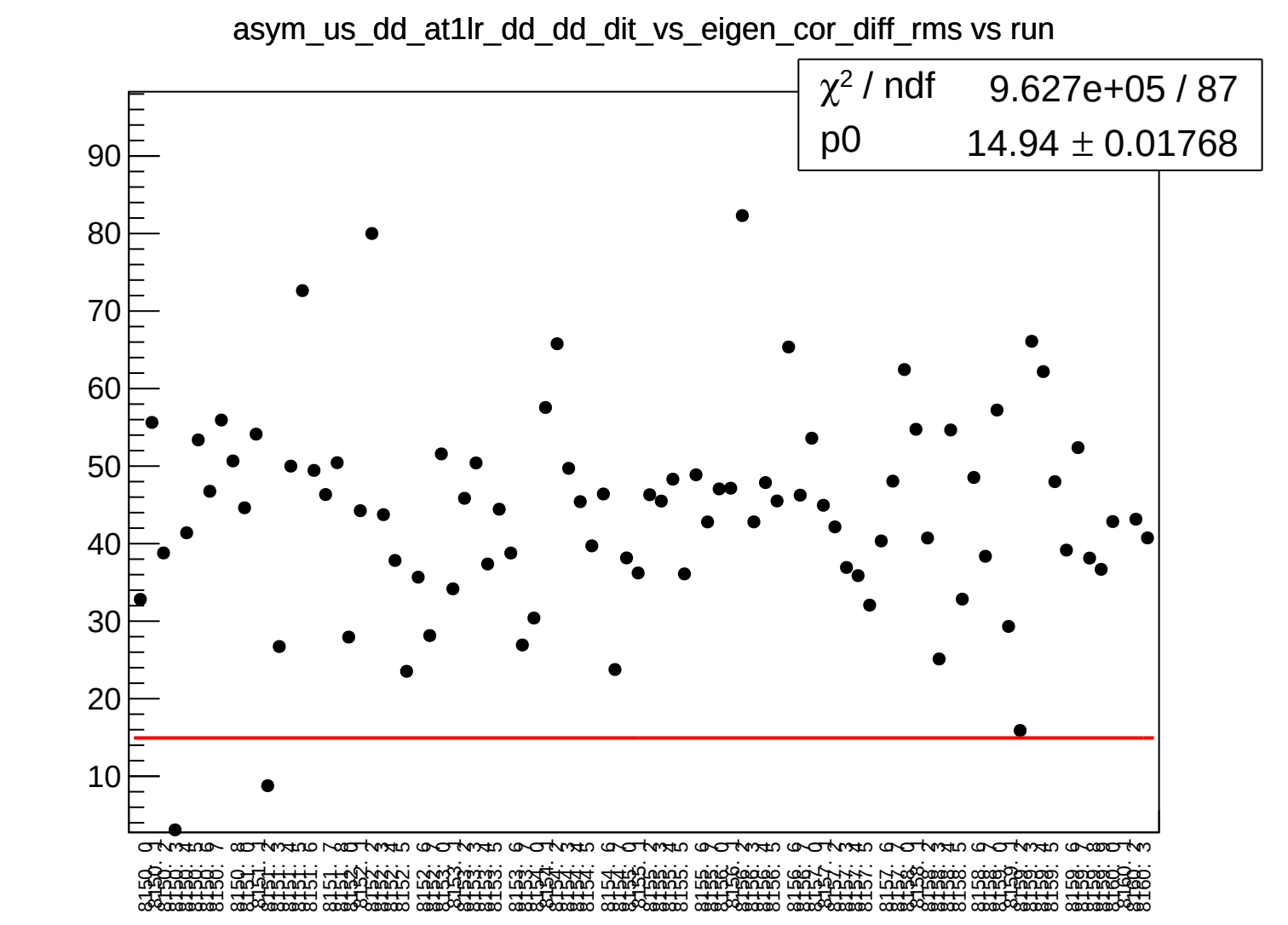

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.264e+05 / 87
p0 6.847e−11 ± 7.025e−14
1
0.8
0.6
0.4
0.2
0

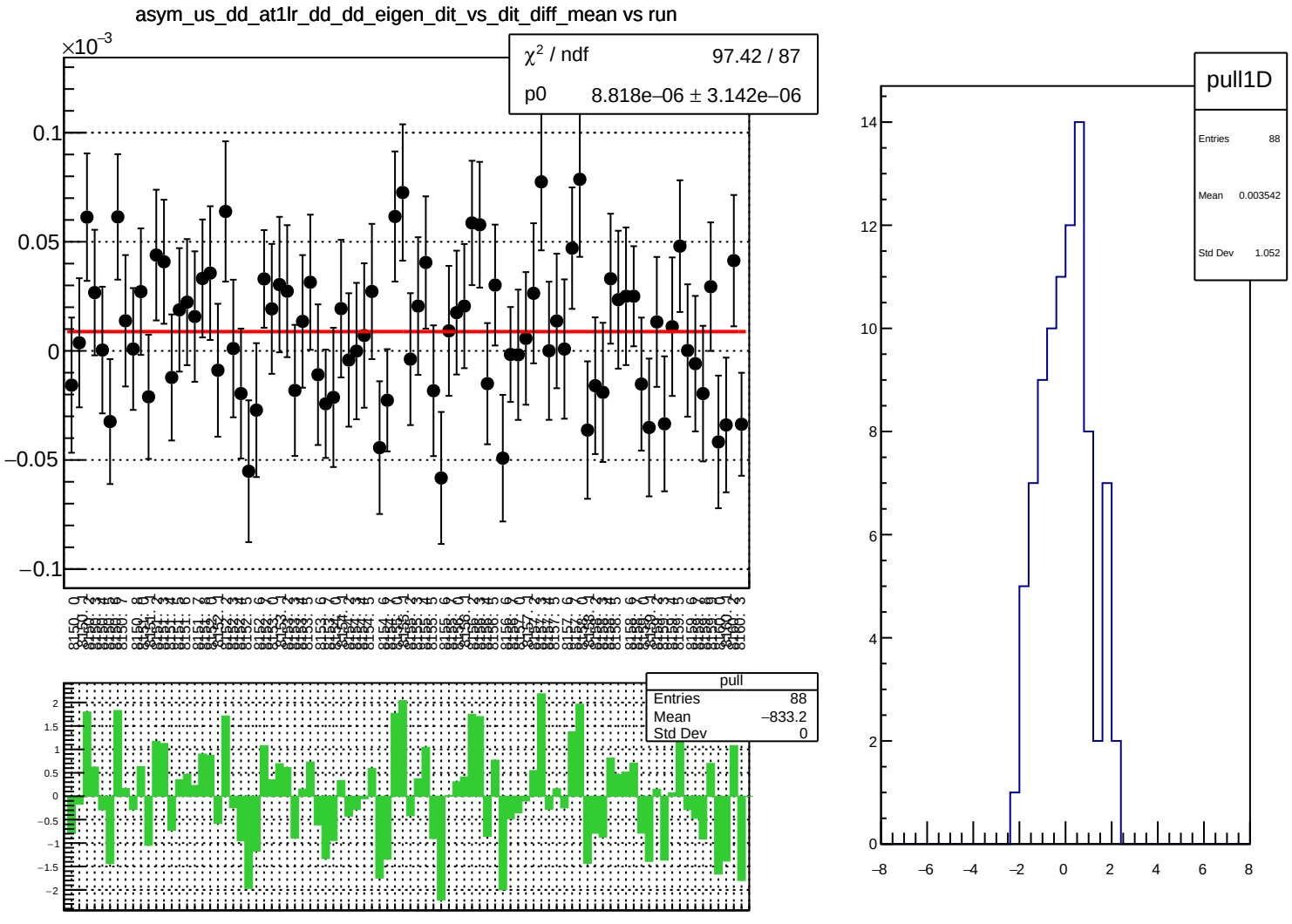

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.08 / 87
p0 0.002262 ± 0.025
pull
Entries 88
Mean 43.01
Std Dev 38.23

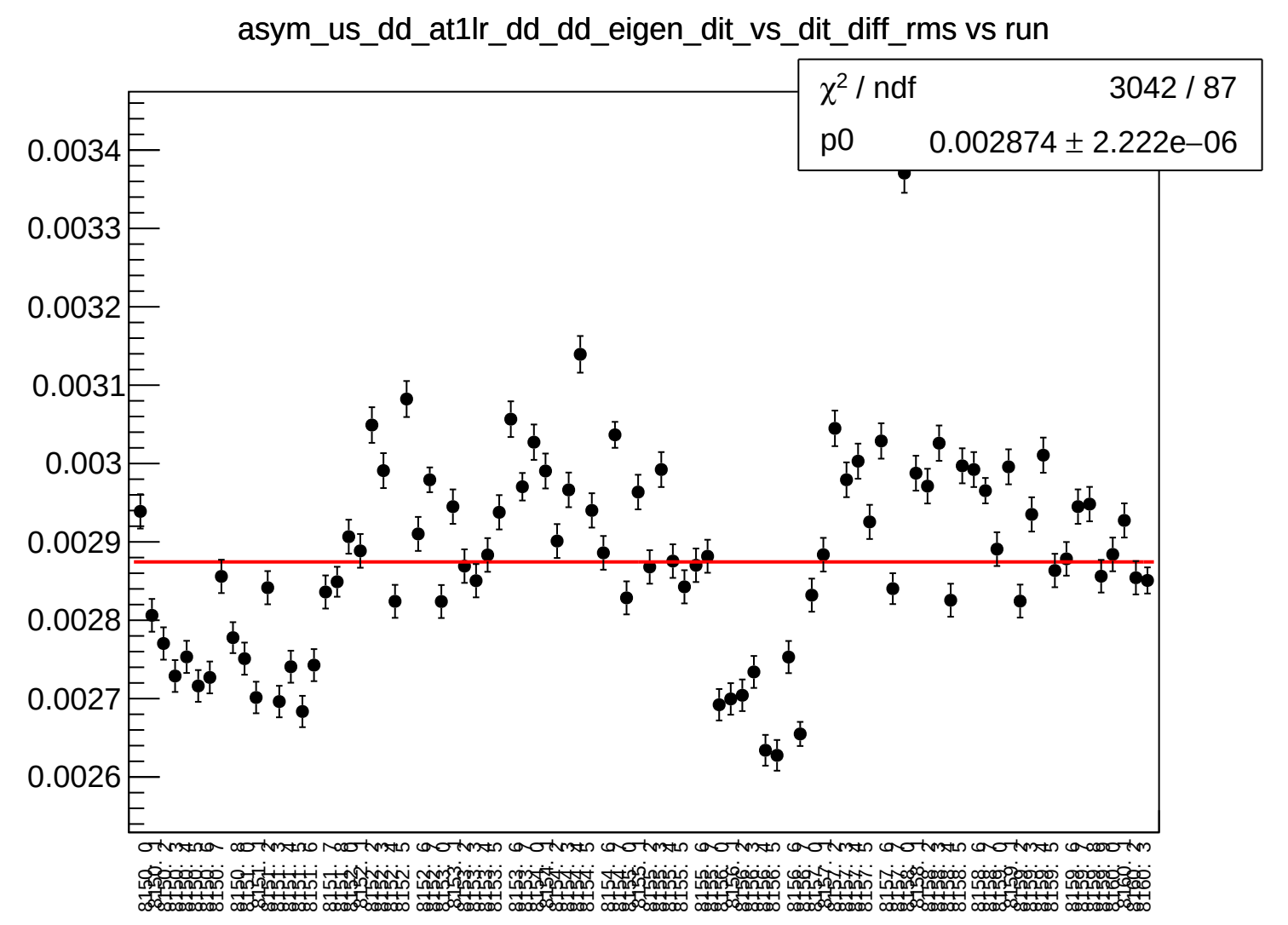

pull1D
Entries 88
Mean −0.07151
Std Dev 1.009

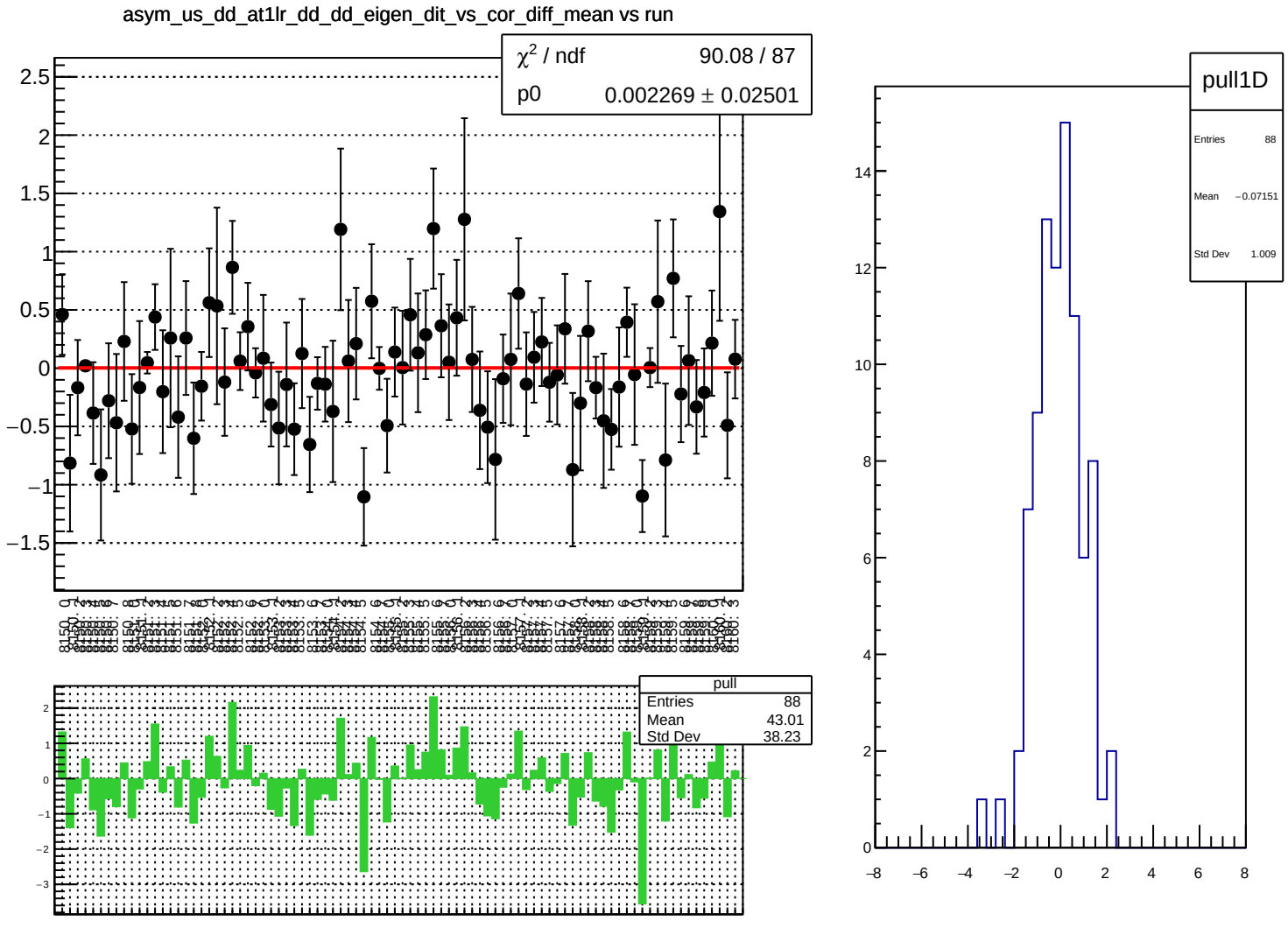

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.627e+05 / 87
p0 14.94 ± 0.01768
90
80
70
60
50
40
30
20
10

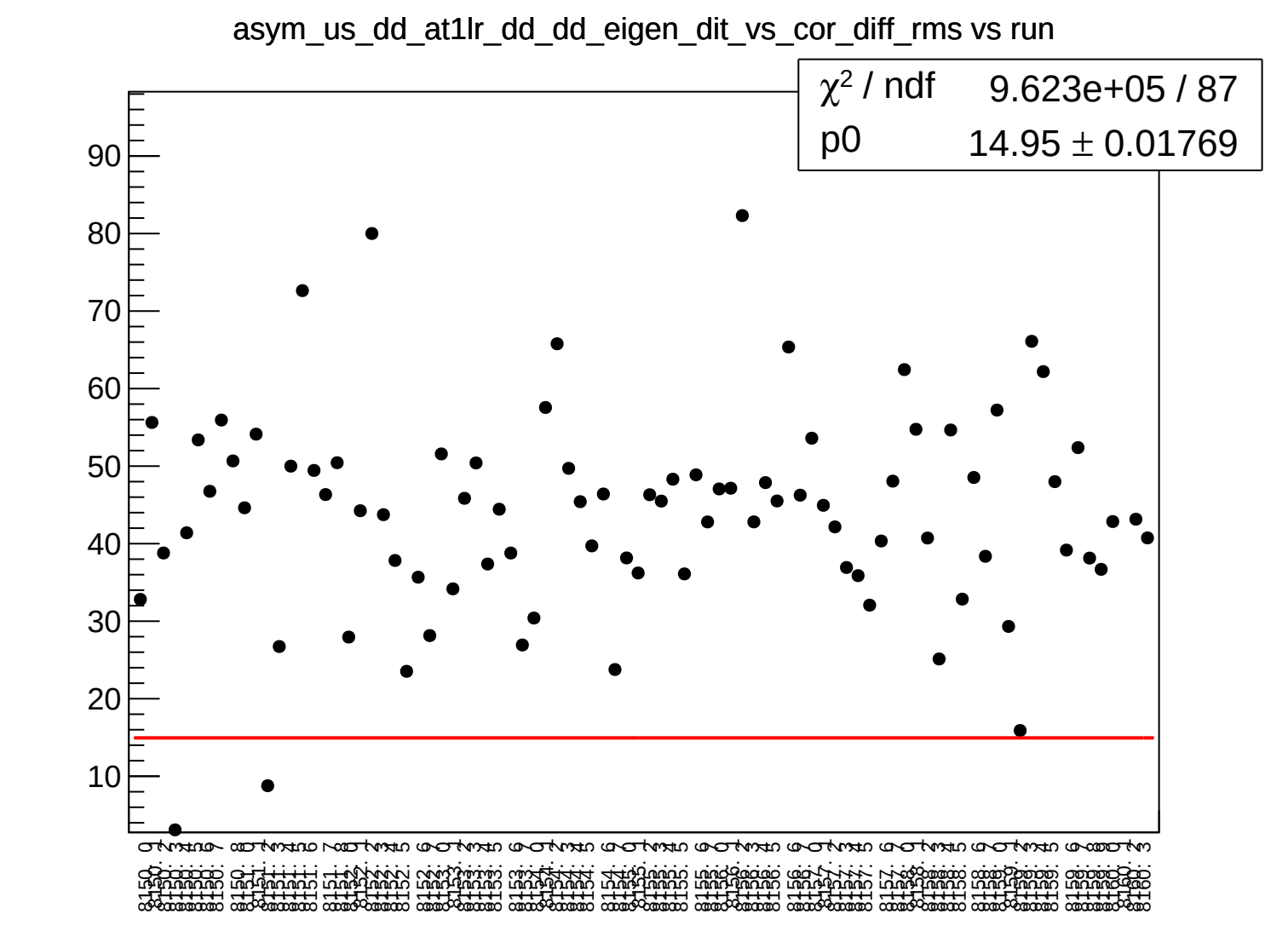

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.08 / 87
p0 0.002262 ± 0.025
pull
Entries 88
Mean 43.01
Std Dev 38.23
pull1D
Entries 88
Mean −0.07151
Std Dev 1.009

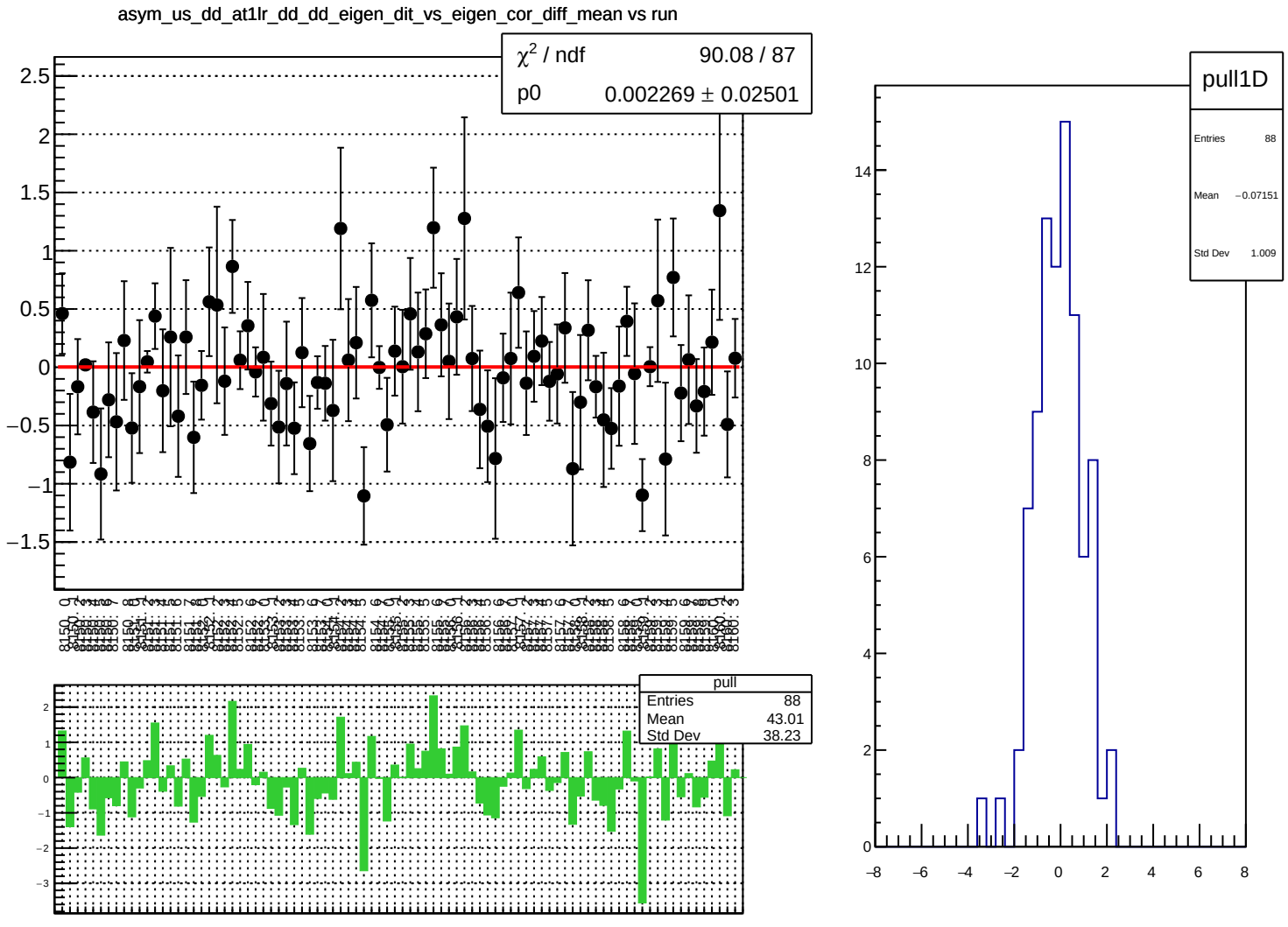

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.627e+05 / 87
p0 14.94 ± 0.01768
90
80
70
60
50
40
30
20
10

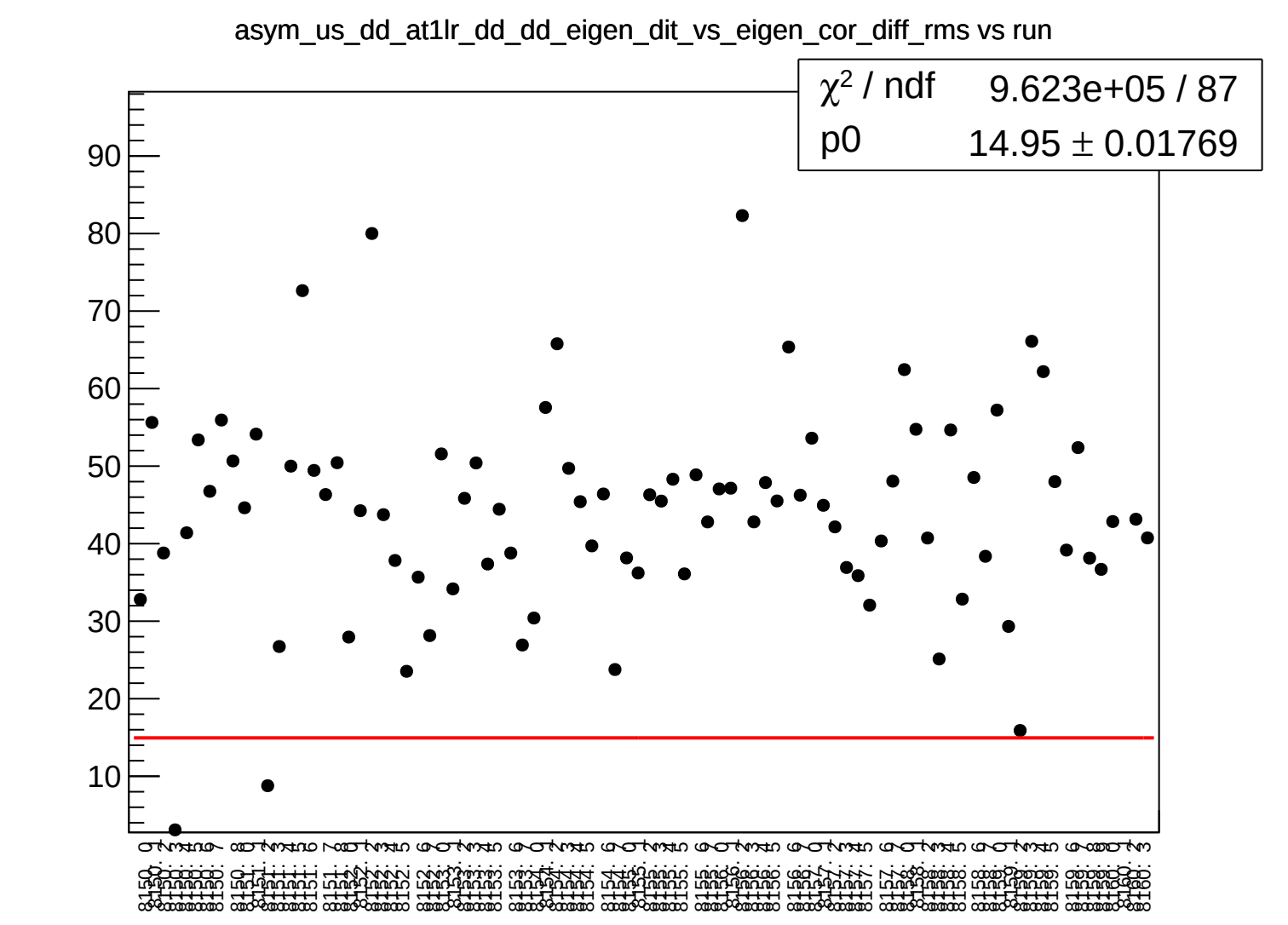

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.42 / 87
p0 8.818e−06 ± 3.142e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −833.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.003542
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

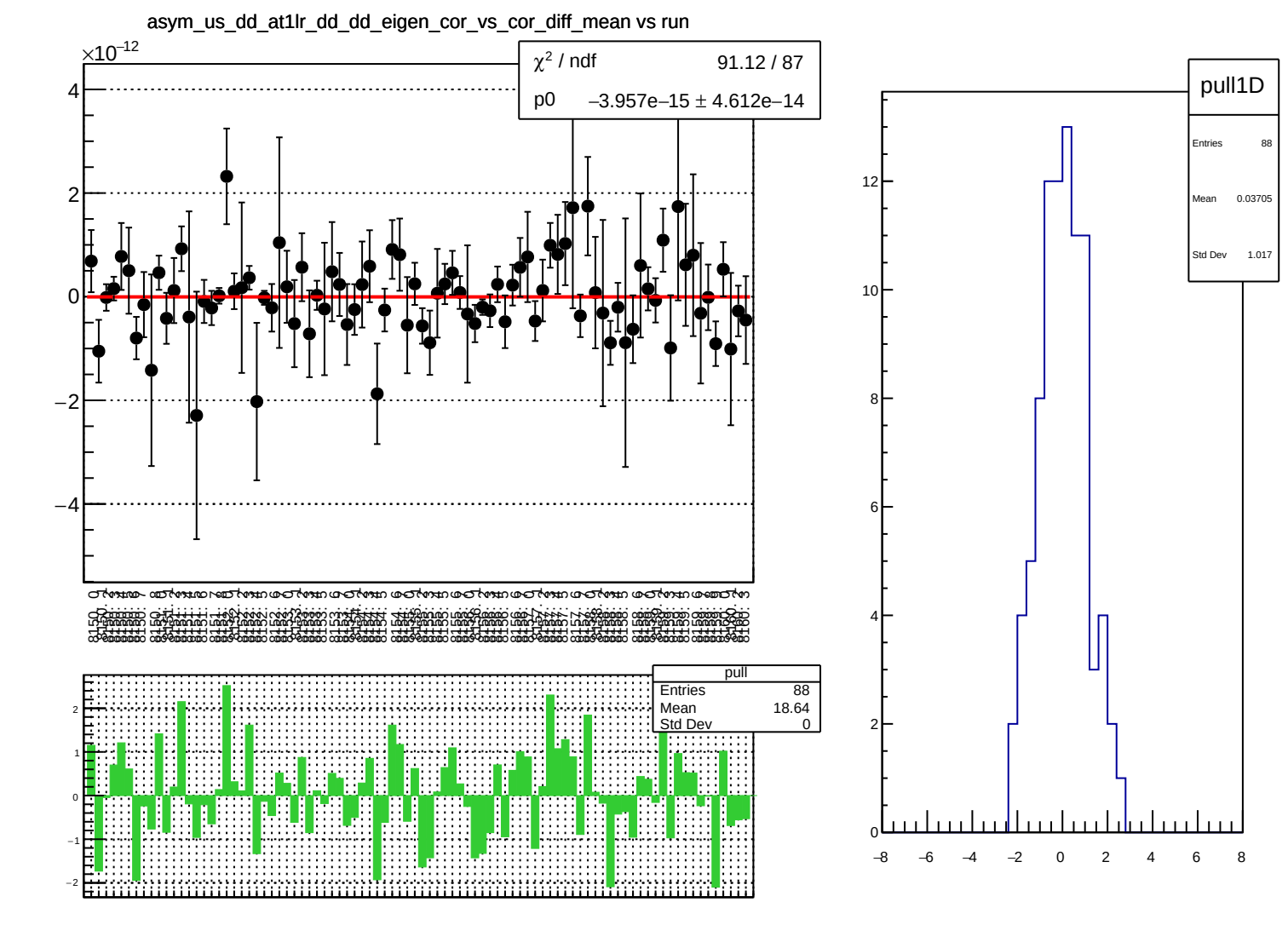

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3042 / 87
p0 0.002874 ± 2.222e−06
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026

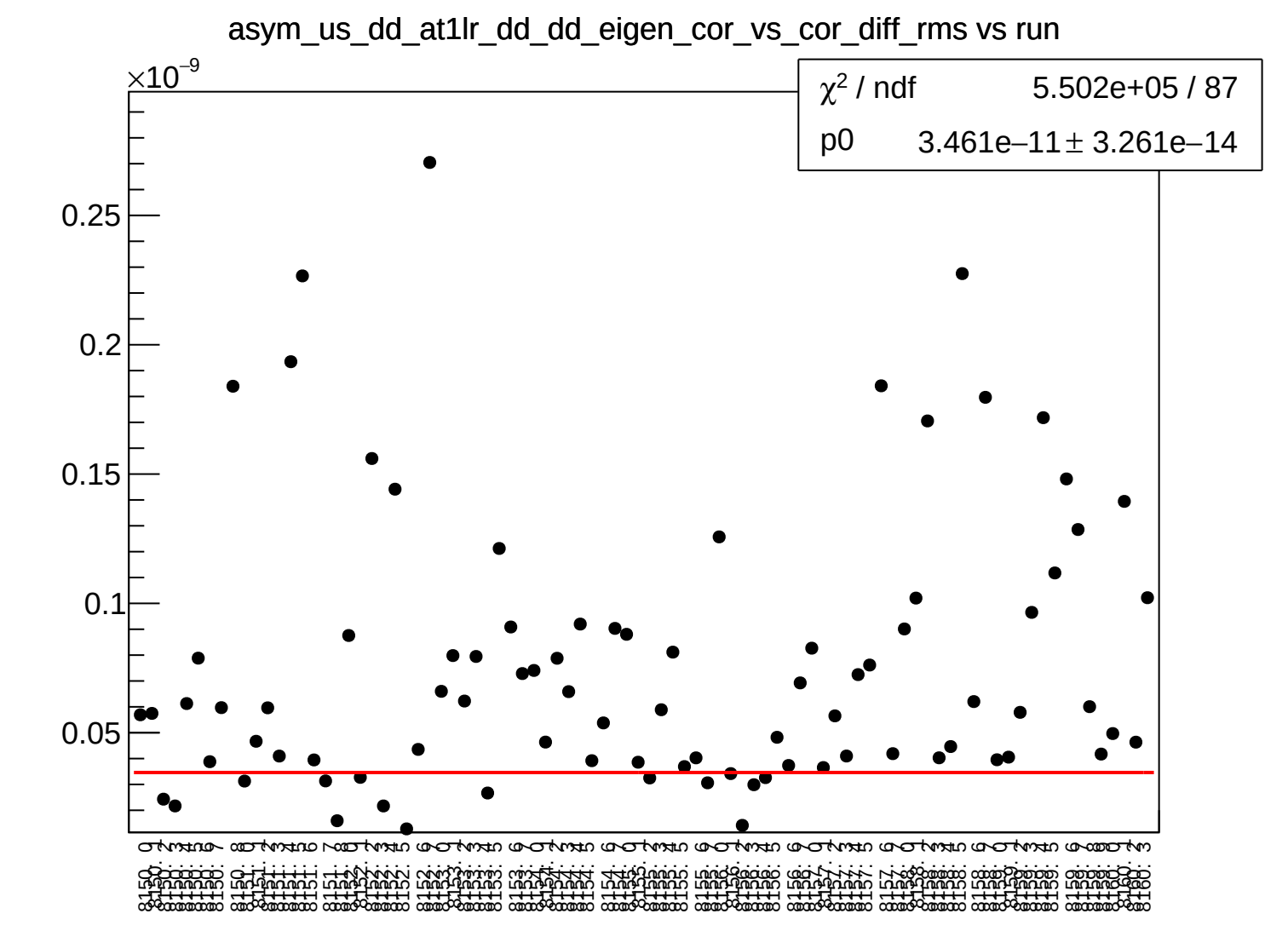

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.08 / 87
p0 0.002269 ± 0.02501
pull
Entries 88
Mean 43.01
Std Dev 38.23
pull1D
Entries 88
Mean −0.07151
Std Dev 1.009

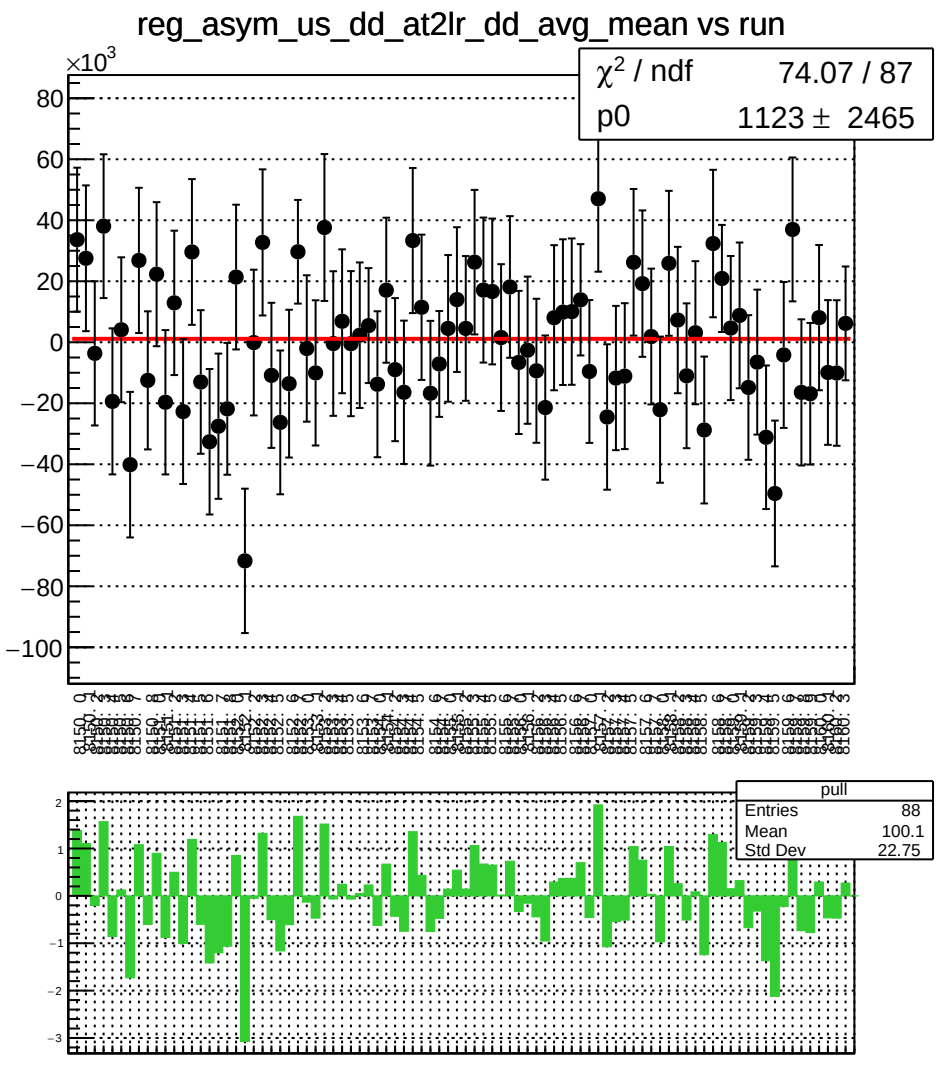

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.623e+05 / 87
p0 14.95 ± 0.01769
90
80
70
60
50
40
30
20
10

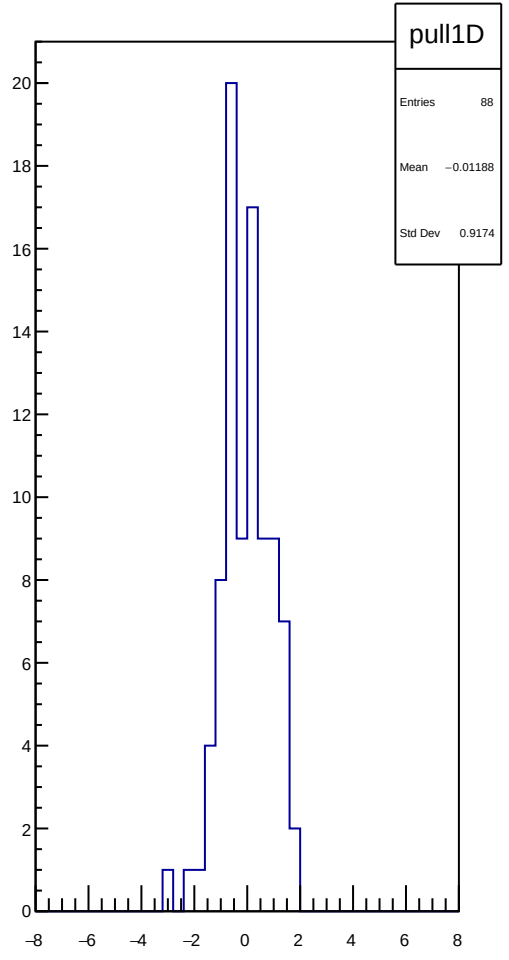

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.08 / 87
p0 0.002269 ± 0.02501
pull
Entries 88
Mean 43.01
Std Dev 38.23
pull1D
Entries 88
Mean −0.07151
Std Dev 1.009

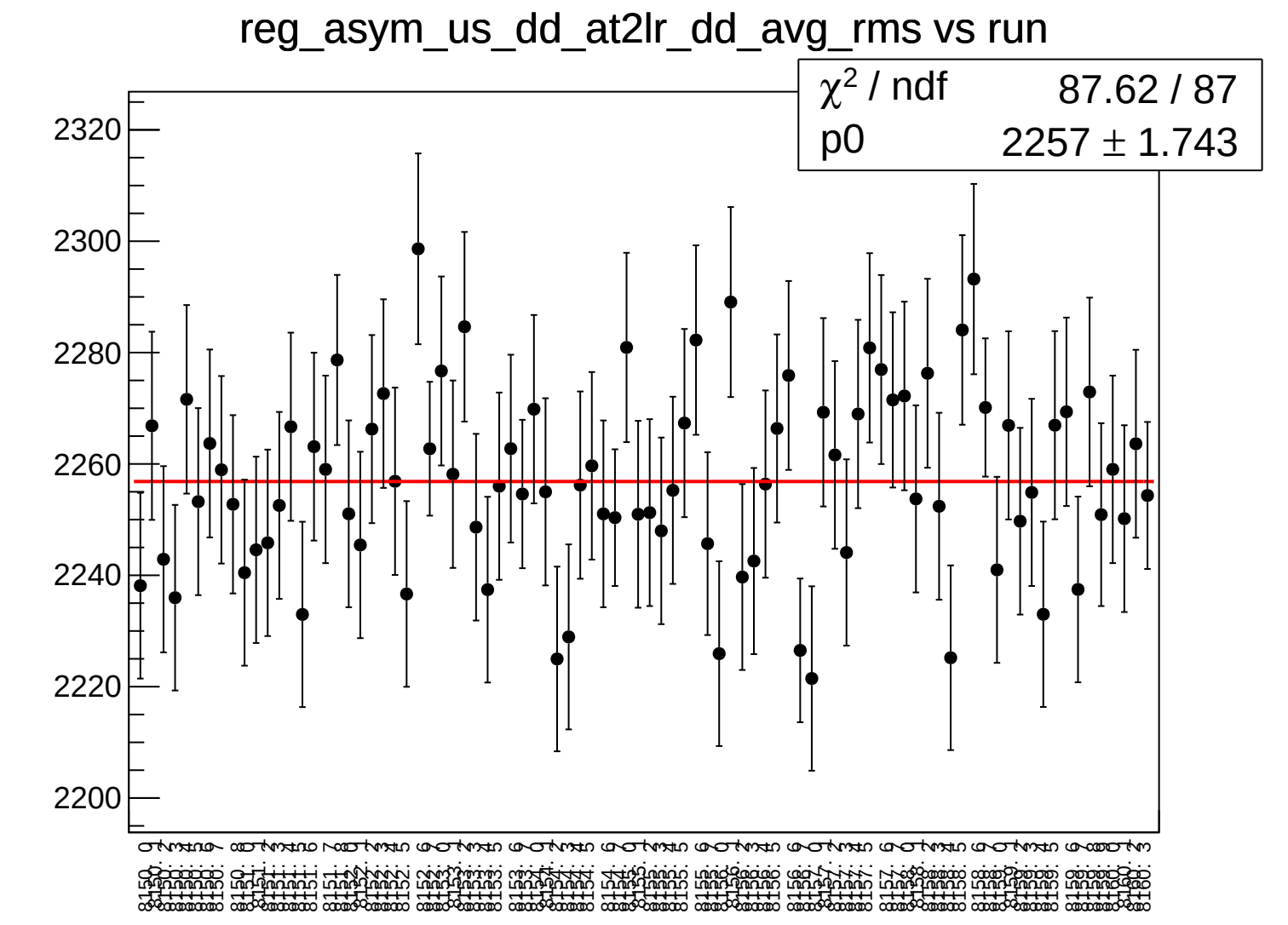

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.623e+05 / 87
p0 14.95 ± 0.01769
90
80
70
60
50
40
30
20
10

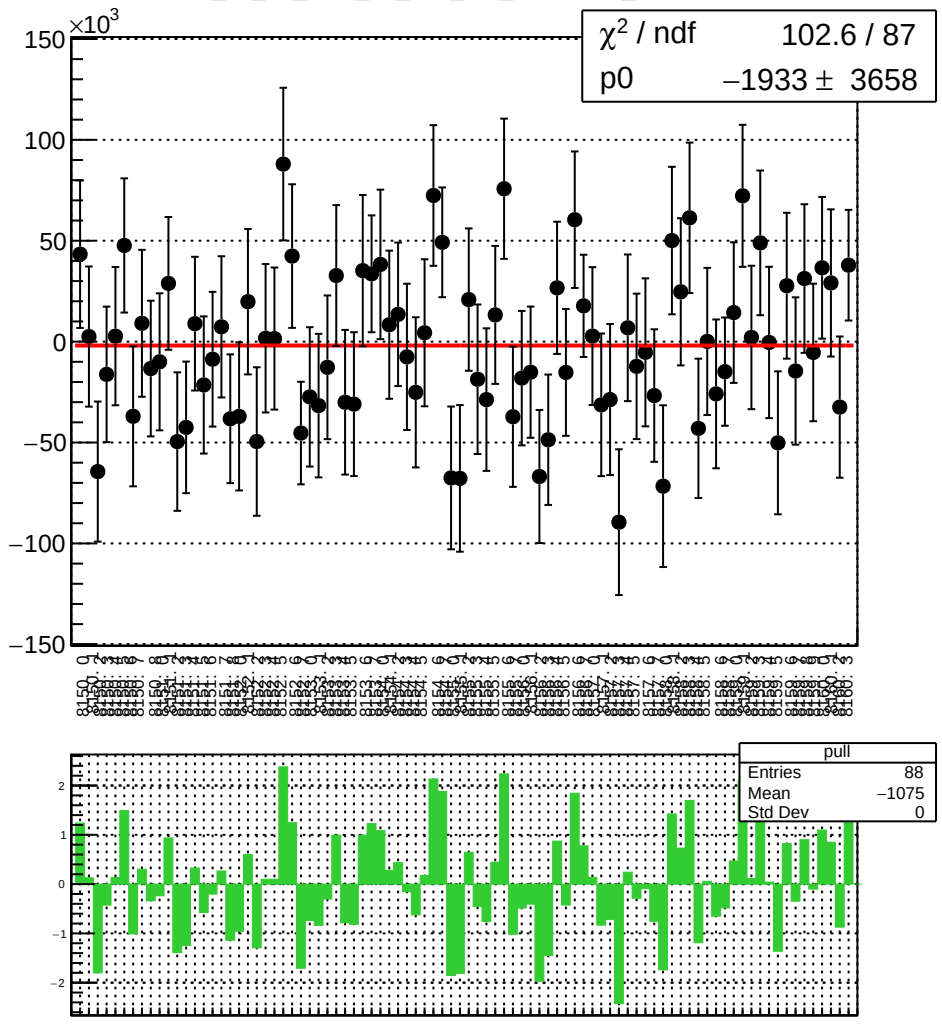

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.12 / 87
p0 −3.957e−15 ± 4.612e−14
pull
Entries 88
Mean 18.64
Std Dev 0
pull1D
Entries 88
Mean 0.03705
Std Dev 1.017

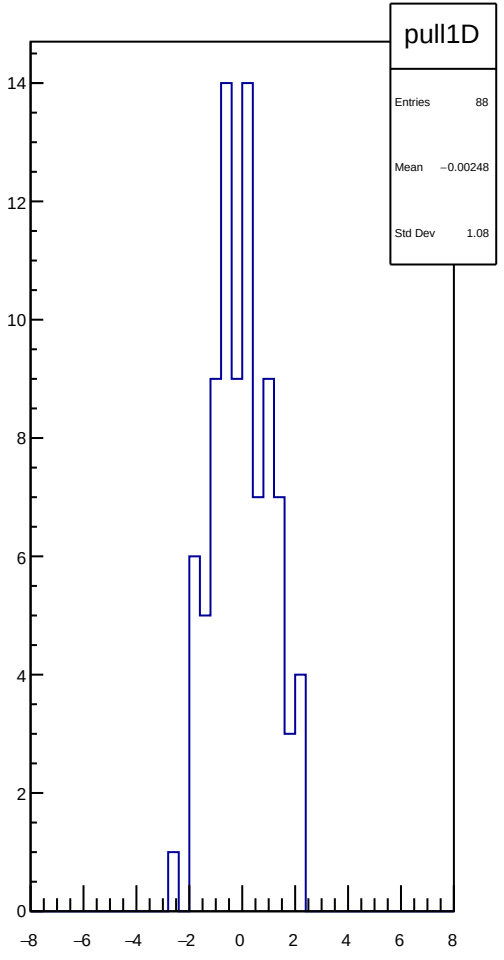

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.502e+05 / 87
p0 3.461e−11 ± 3.261e−14
0.25
0.2
0.15
0.1
0.05

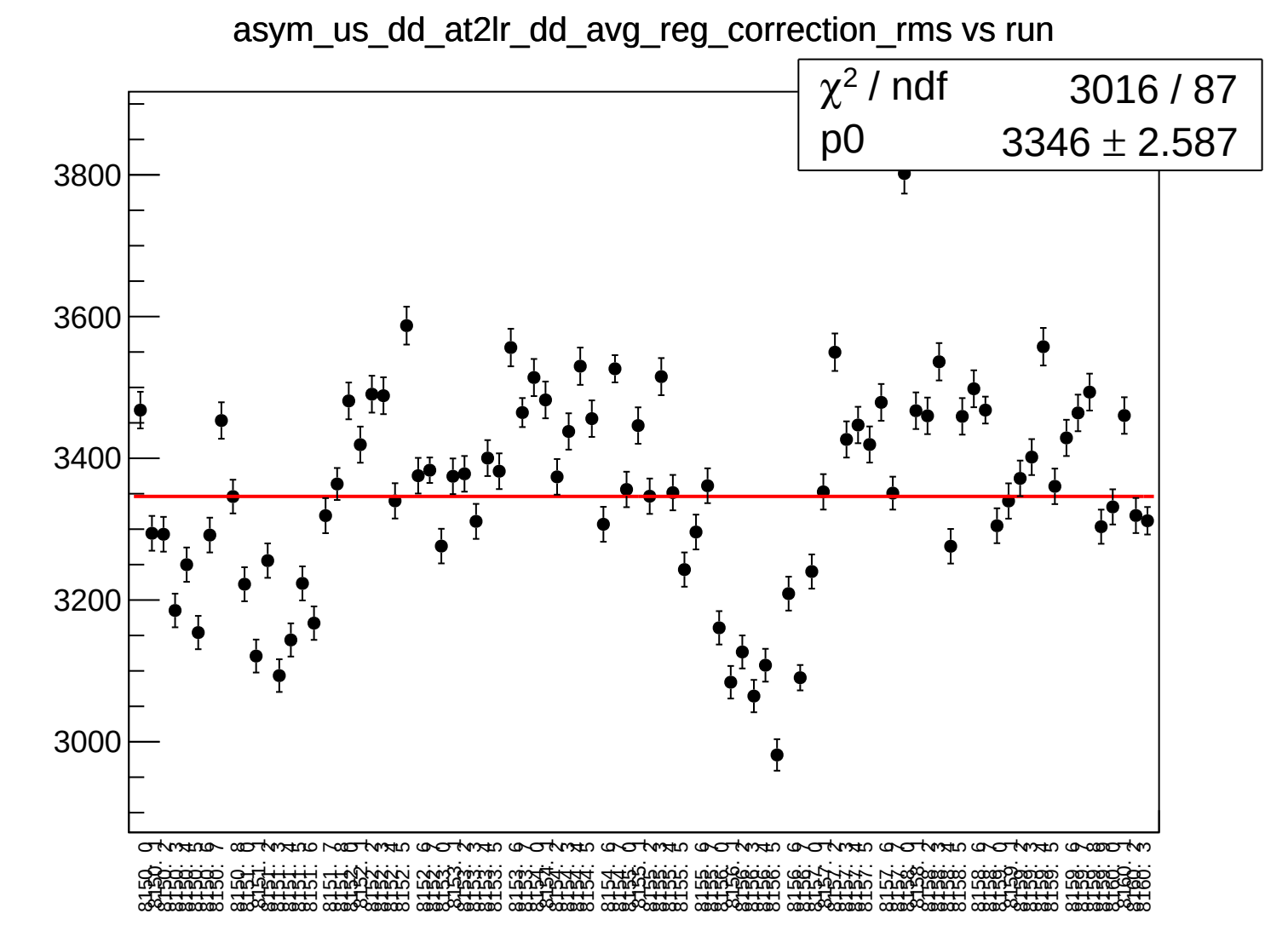

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 74.07 / 87
p0 1123 ± 2465
pull
Entries 88
Mean 100.1
Std Dev 22.75

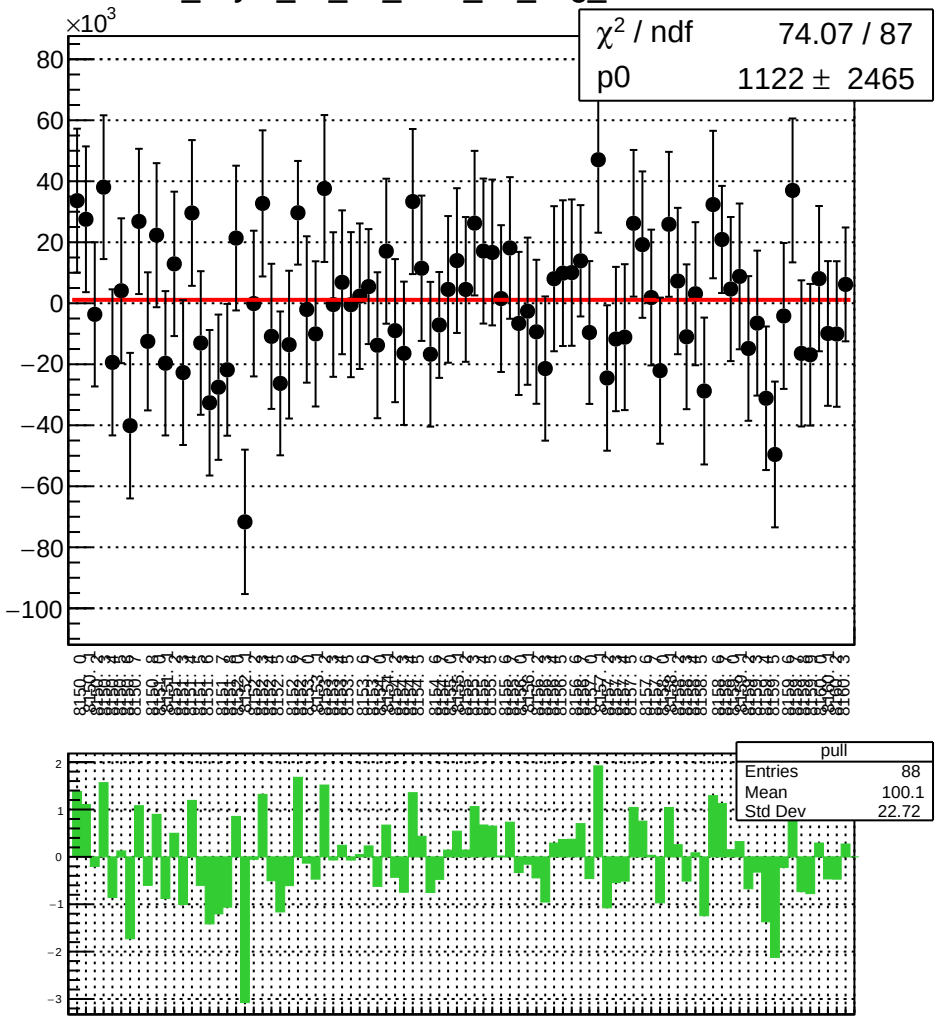

pull1D
Entries 88
Mean −0.01188
Std Dev 0.9174

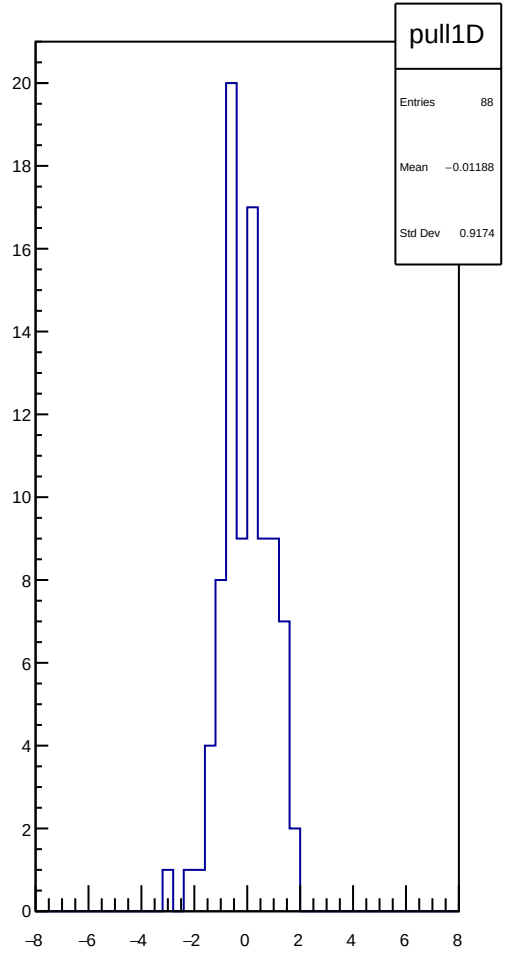

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 87.62 / 87
p0 2257 ± 1.743
2320
2300
2280
2260
2240
2220
2200

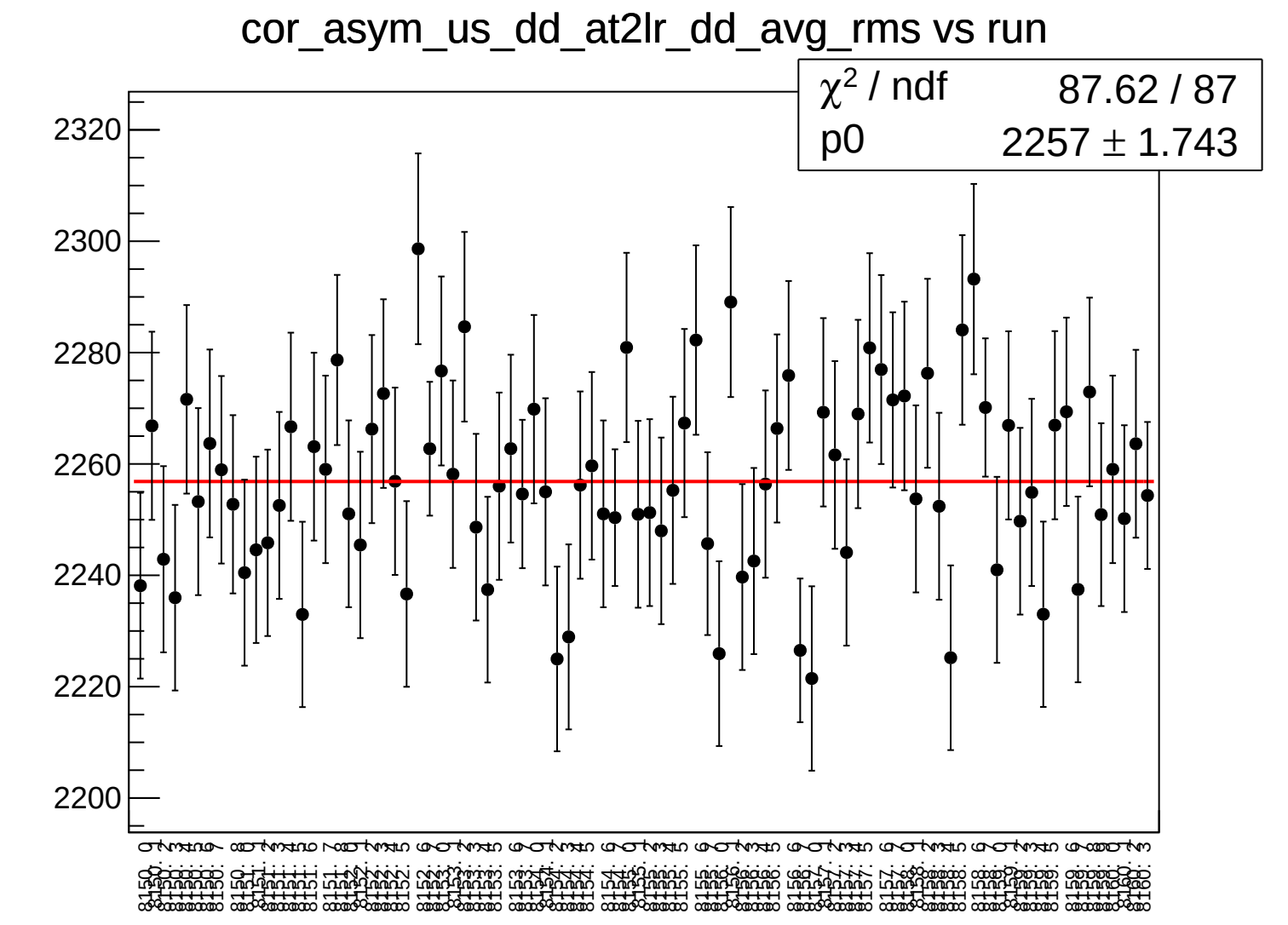

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 102.6 / 87
p0 −1933 ± 3658
×10³
pull
Entries 88
Mean −1075
Std Dev 0

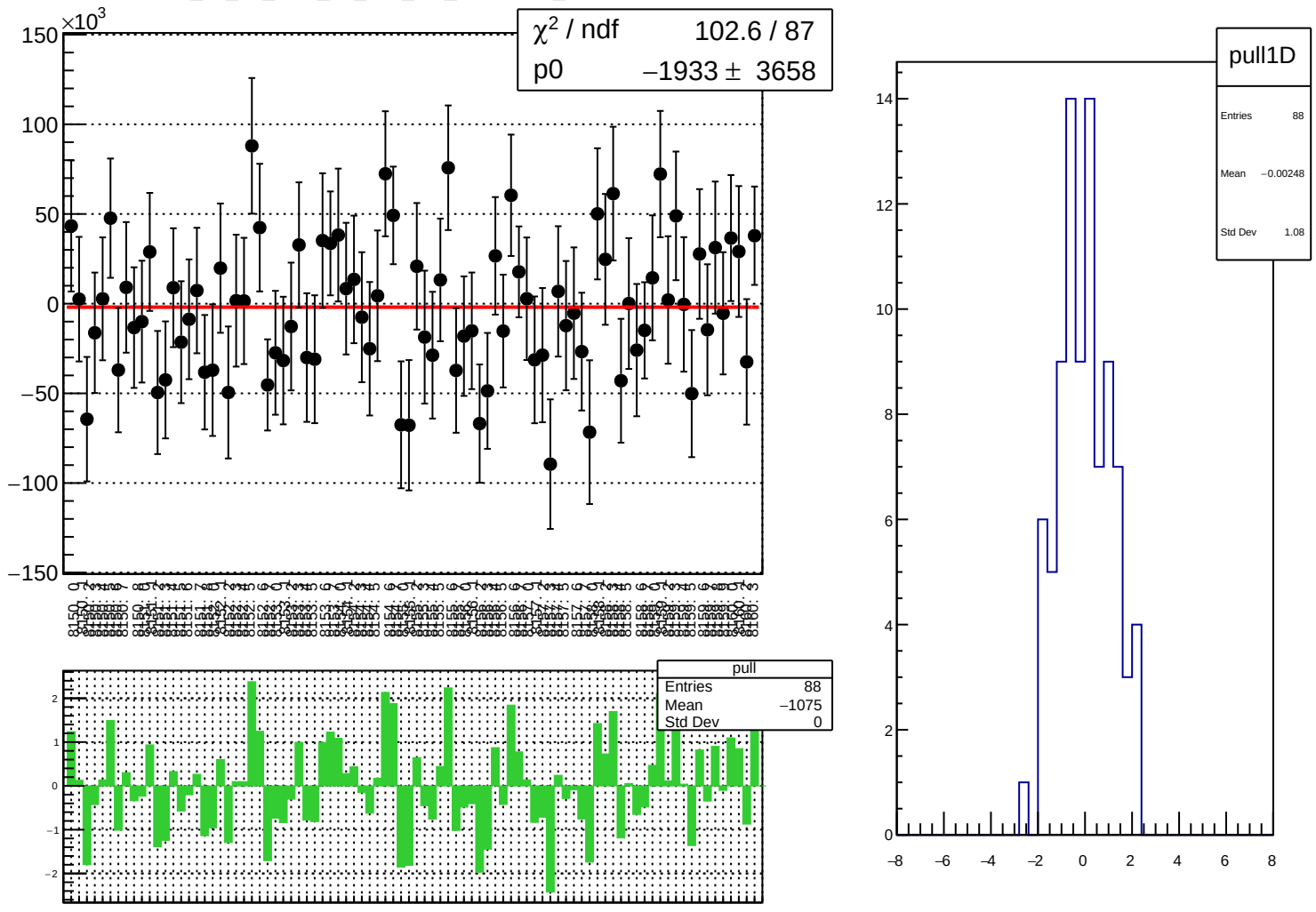

pull1D
Entries 88
Mean −0.00248
Std Dev 1.08

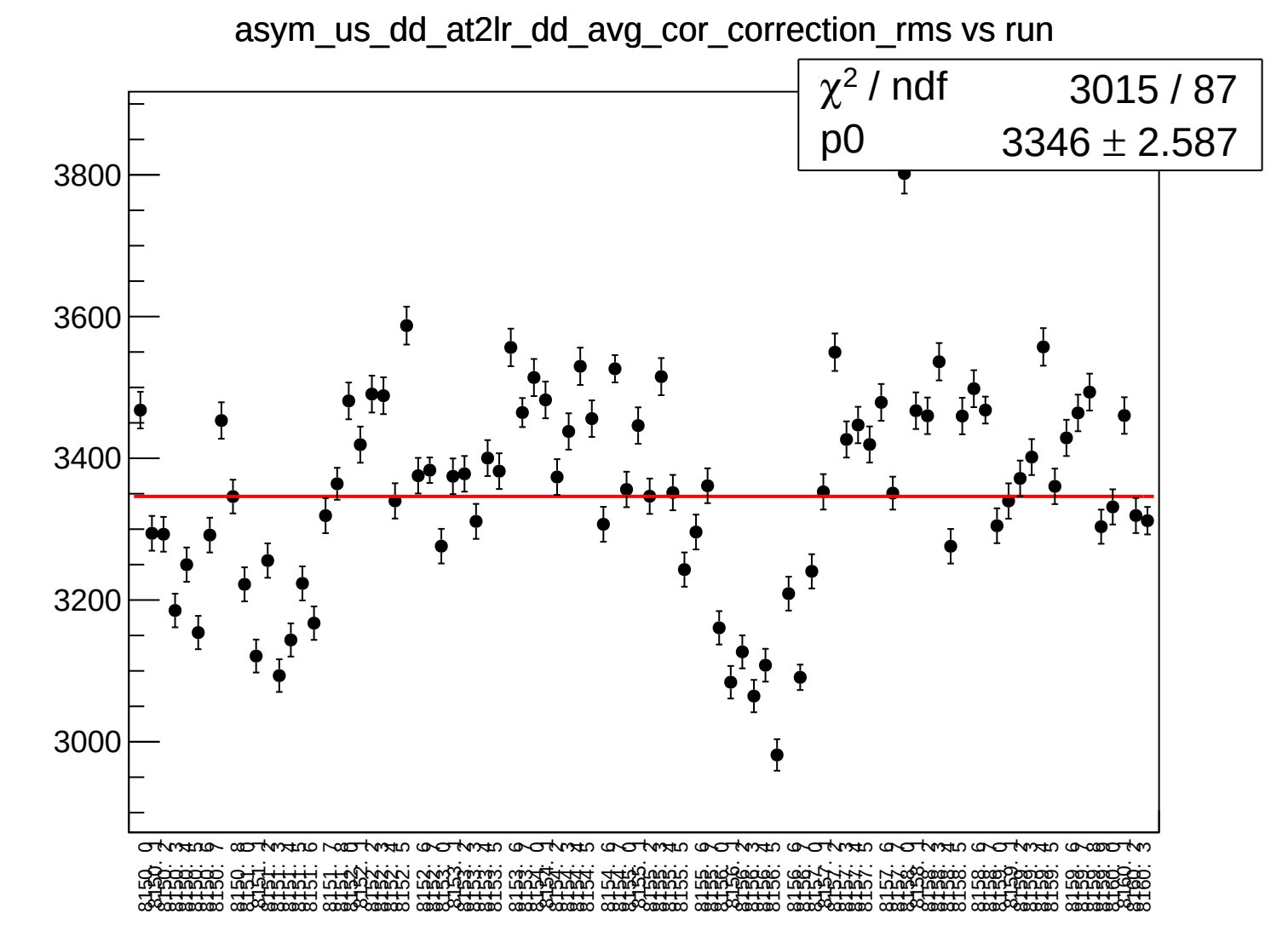

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 3016 / 87
p0 3346 ± 2.587
3800
3600
3400
3200
3000

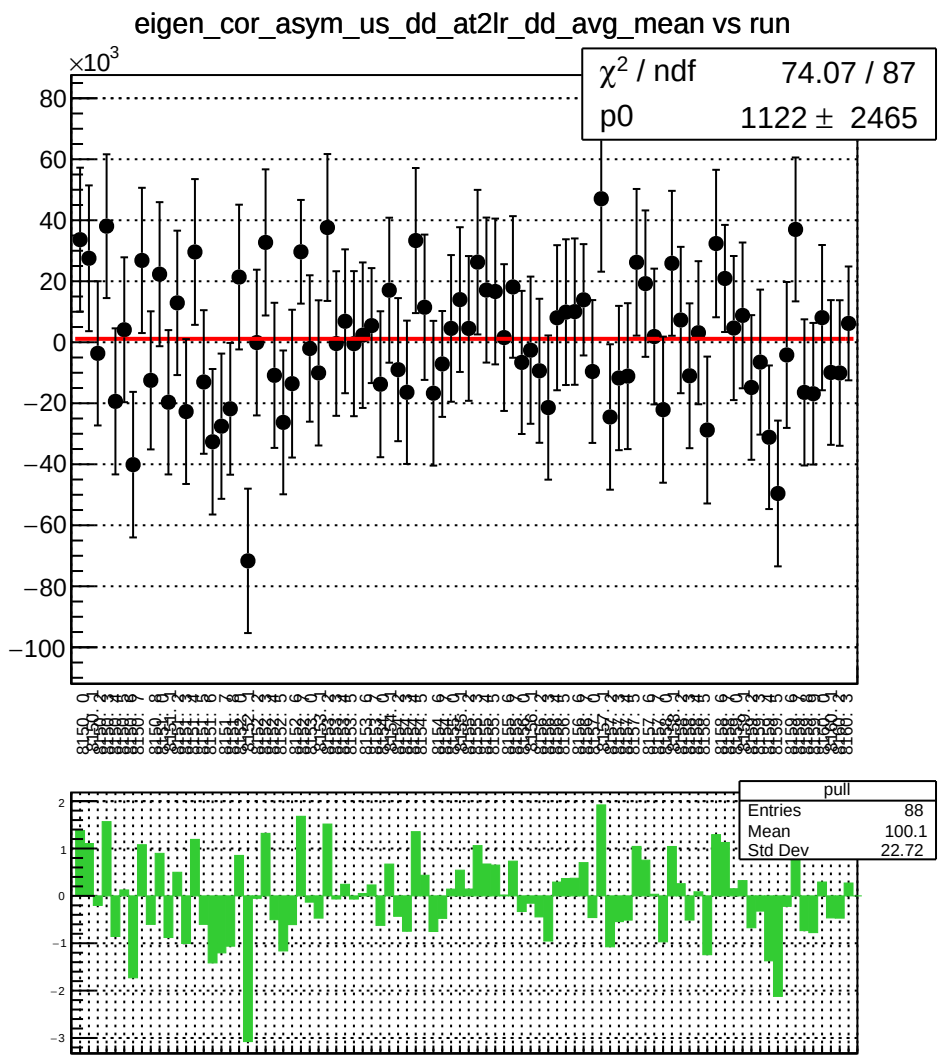

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 74.07 / 87
p0 1122 ± 2465
pull
Entries 88
Mean 100.1
Std Dev 22.72

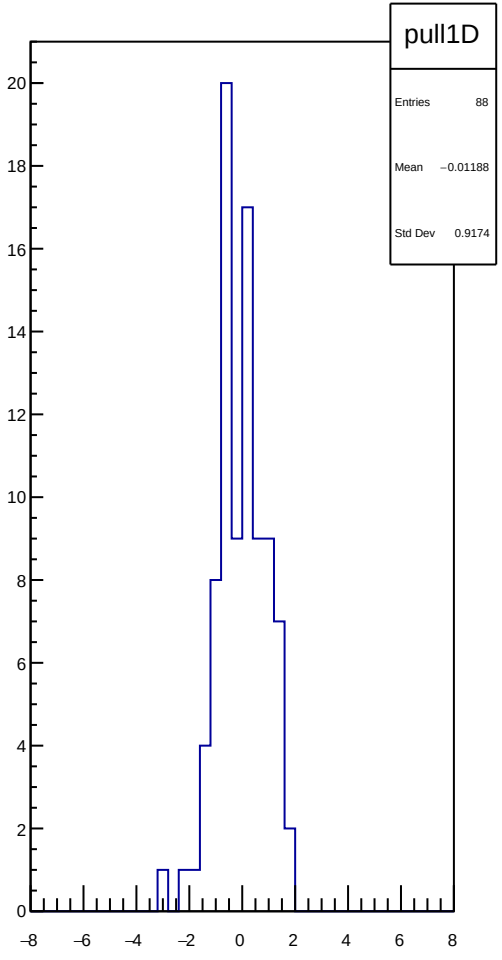

pull1D
Entries 88
Mean −0.01188
Std Dev 0.9174

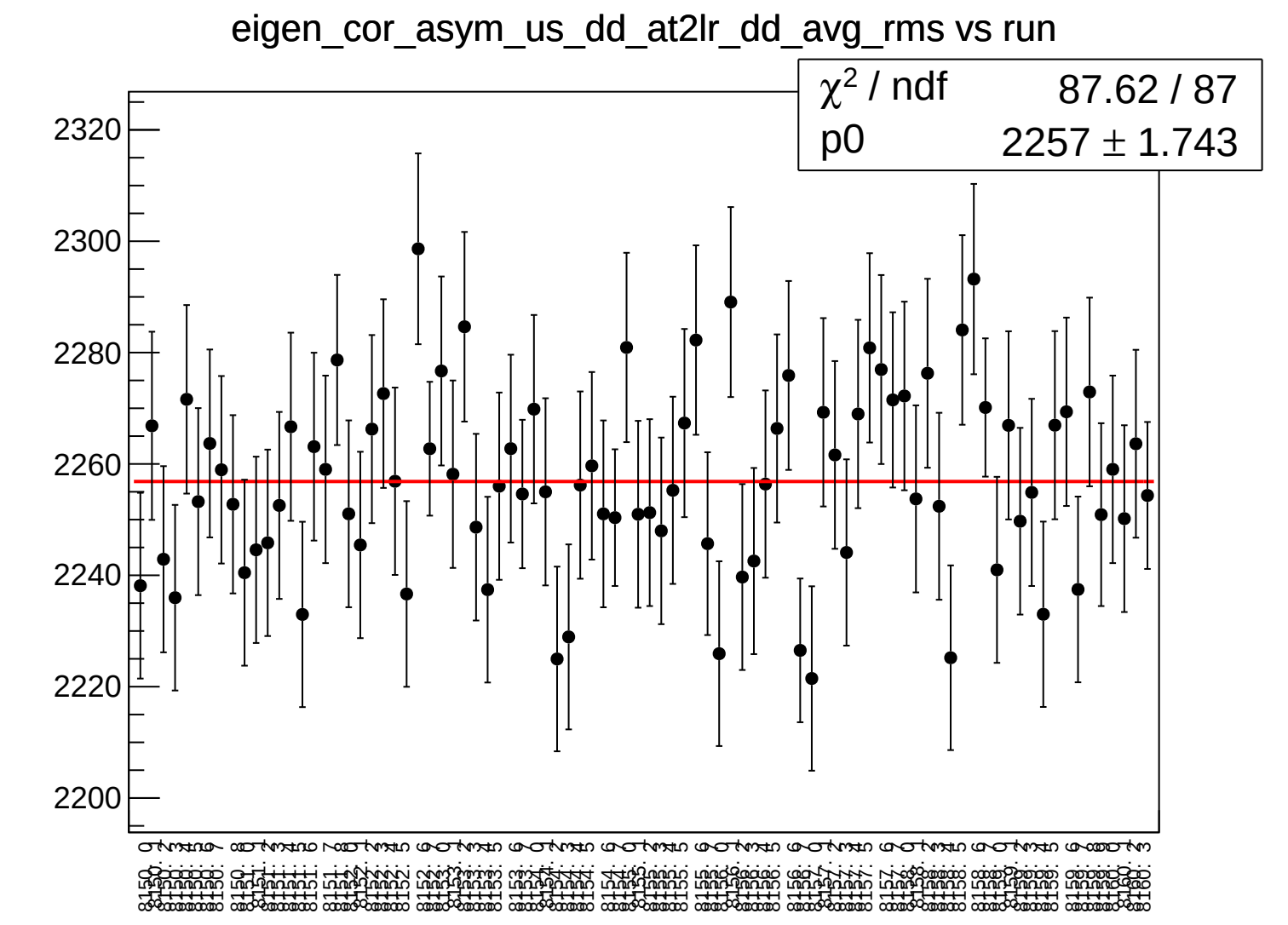

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 87.62 / 87
p0 2257 ± 1.743
2320
2300
2280
2260
2240
2220
2200

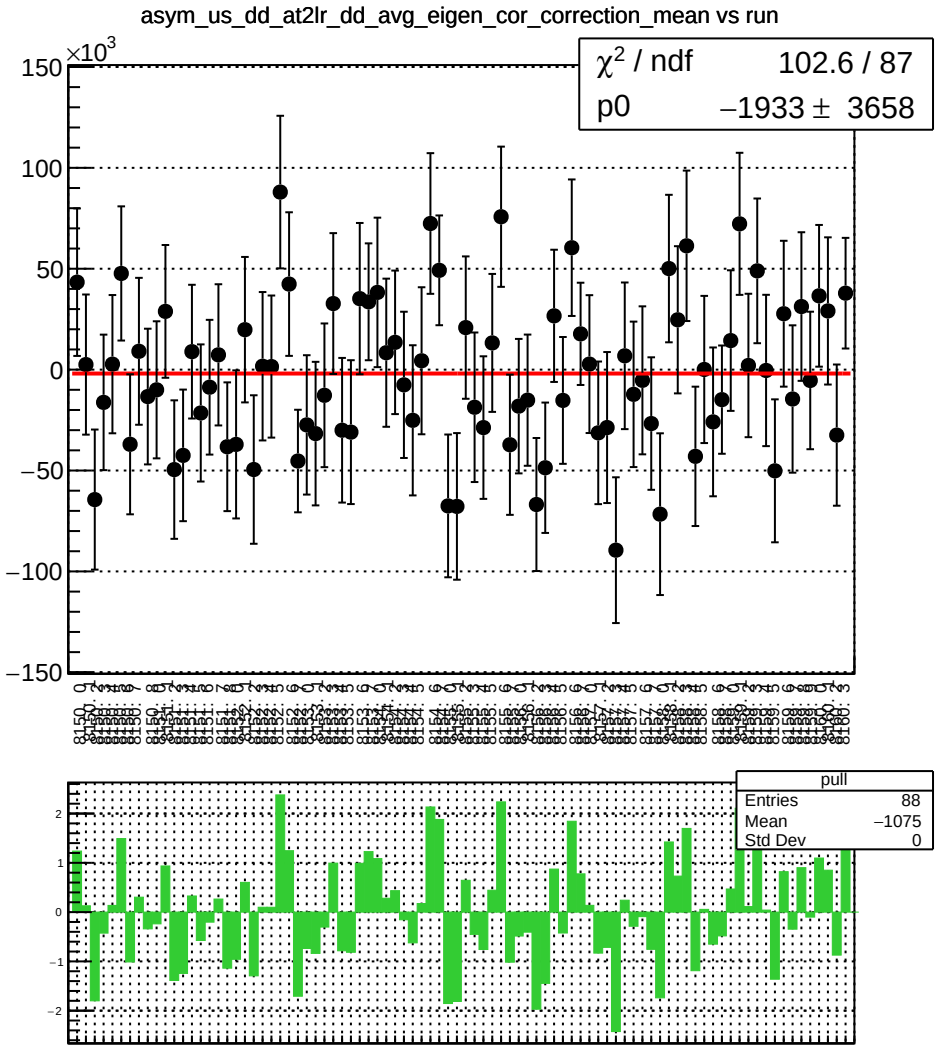

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 102.6 / 87
p0 −1933 ± 3658
×10³
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −1075
Std Dev 0
pull1D
Entries 88
Mean −0.00248
Std Dev 1.08

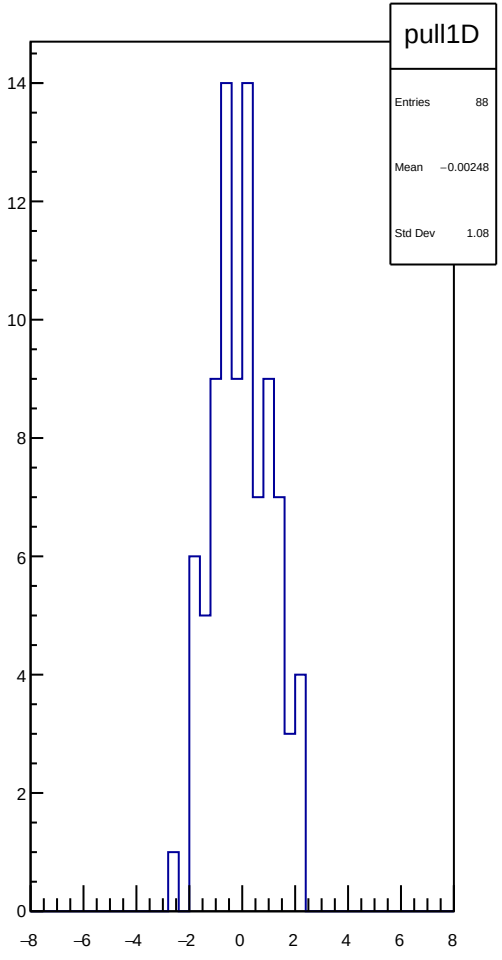

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 3015 / 87
p0 3346 ± 2.587
3800
3600
3400
3200
3000

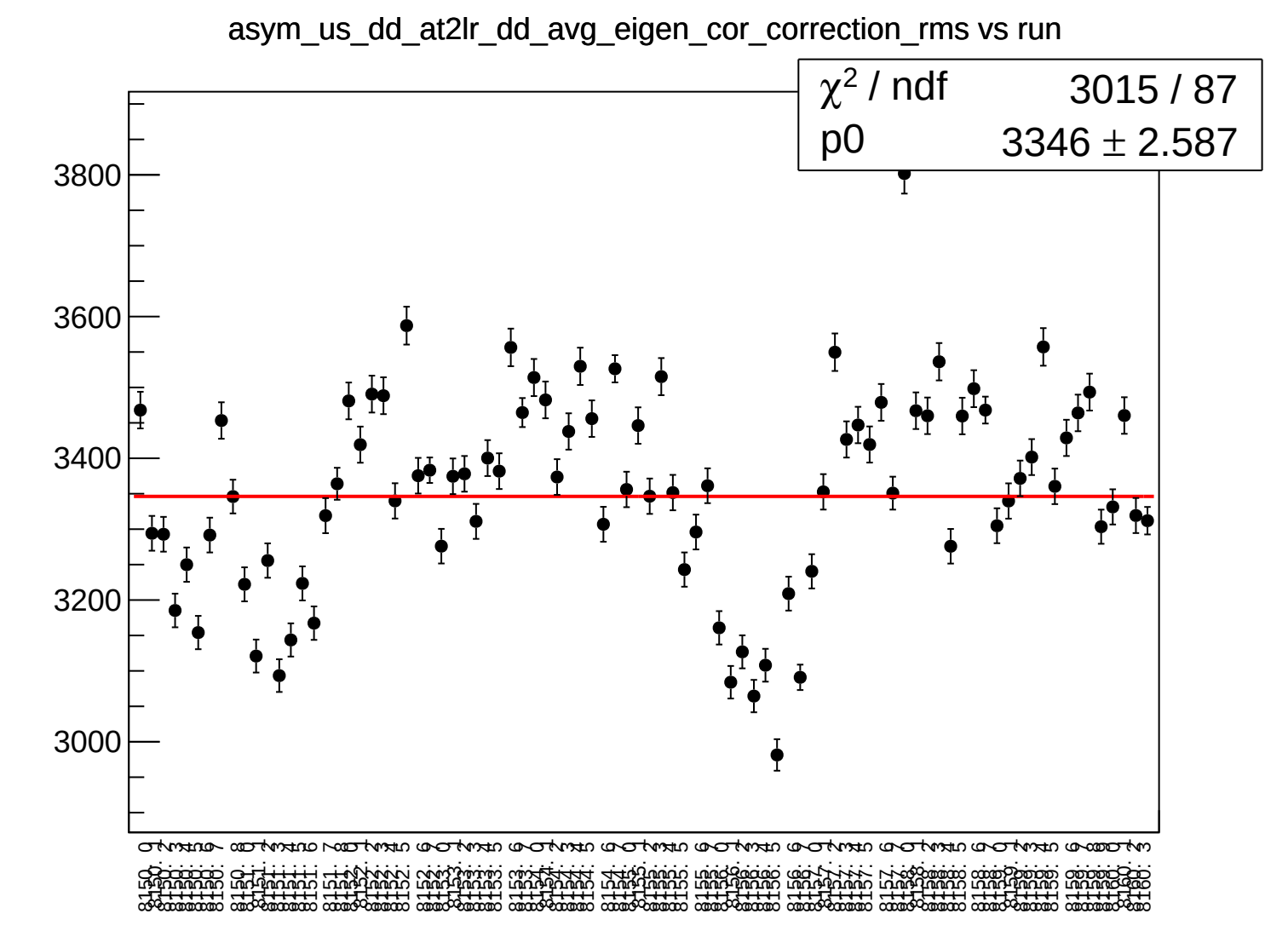

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 74.07 / 87
p0 1122 ± 2465
pull
Entries 88
Mean 100.1
Std Dev 22.72

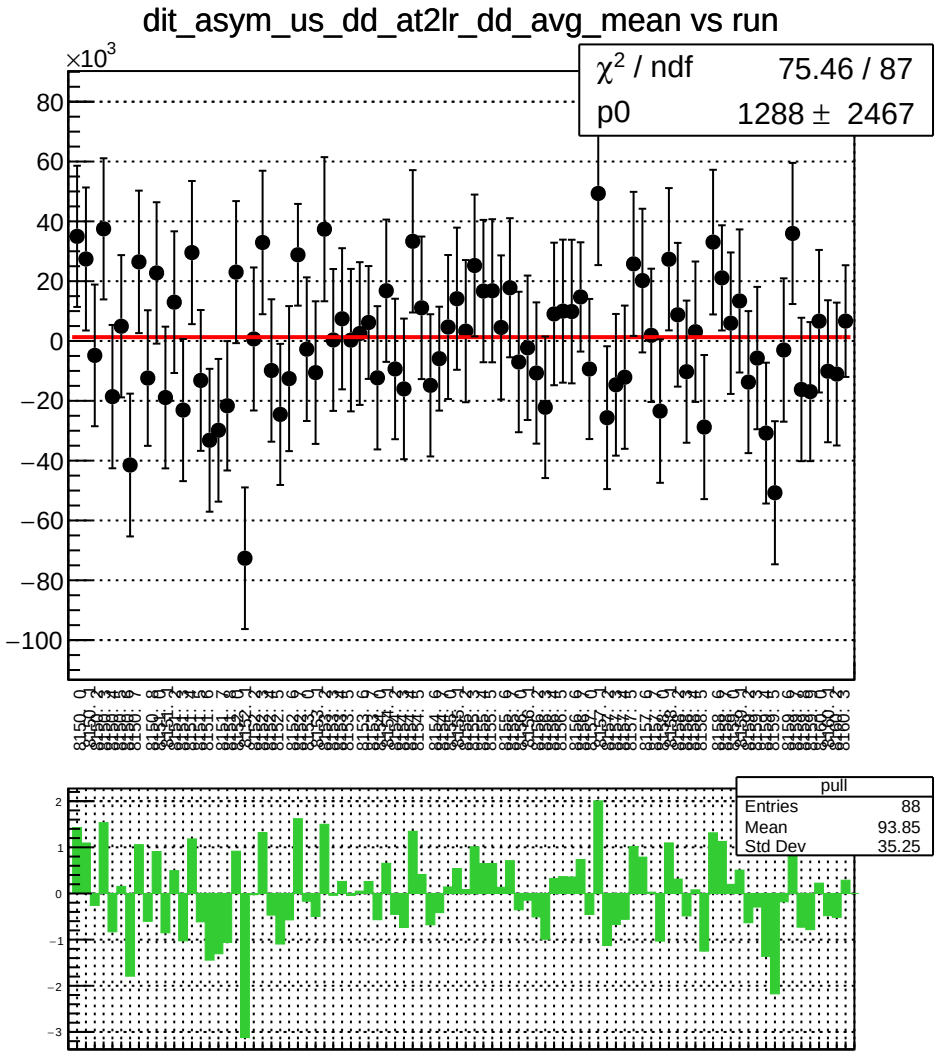

pull1D
Entries 88
Mean −0.01188
Std Dev 0.9174

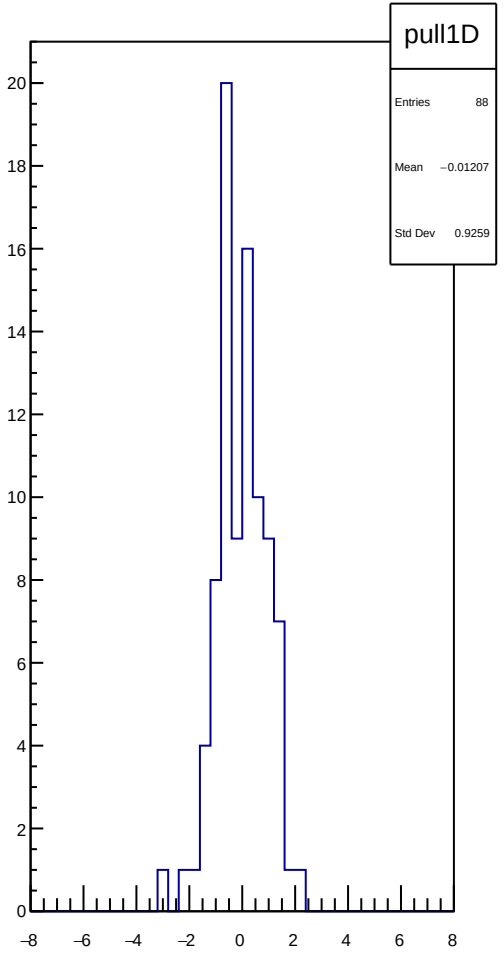

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 87.62 / 87
p0 2257 ± 1.743
2320
2300
2280
2260
2240
2220
2200

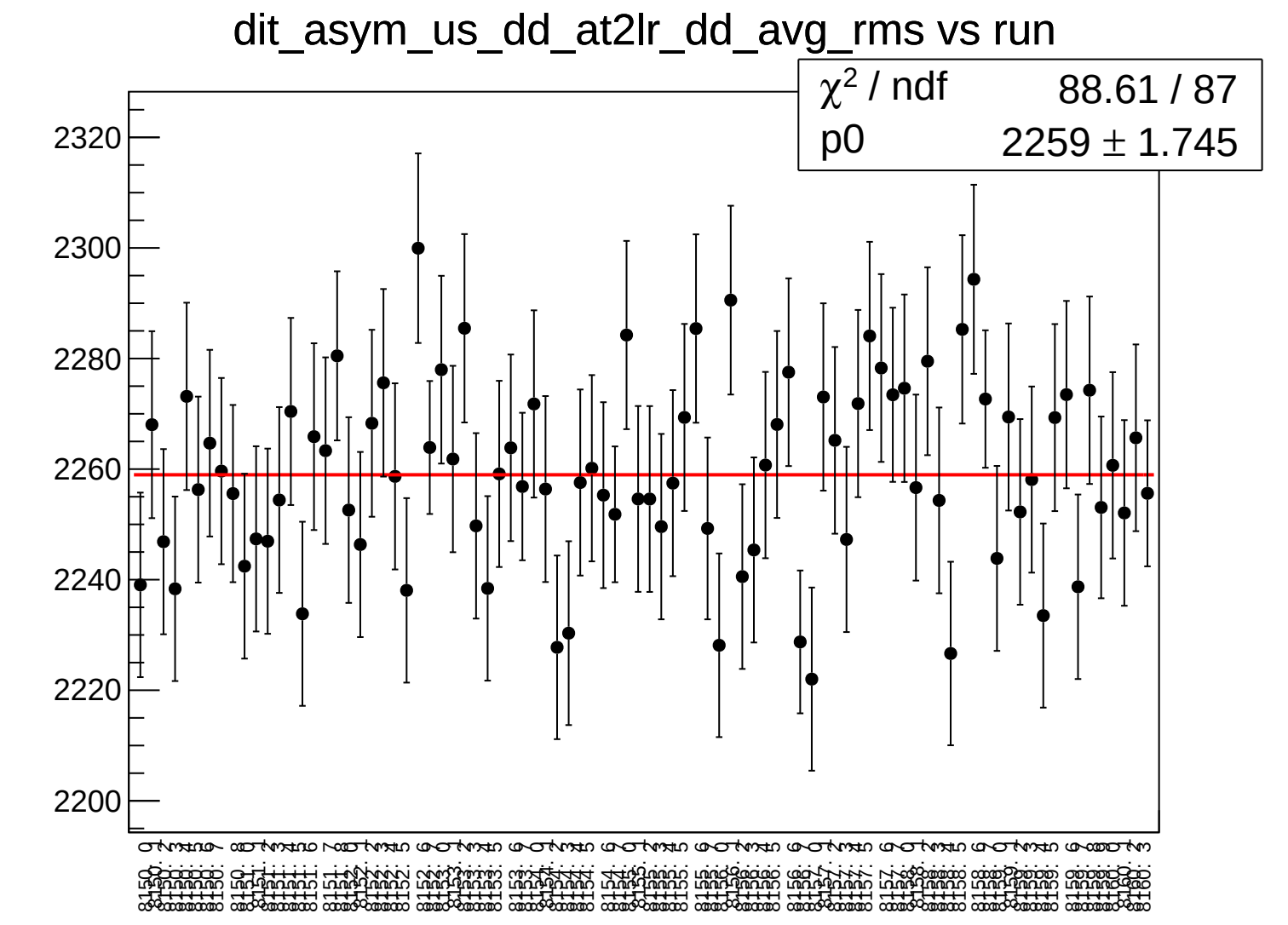

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 102.6 / 87
p0 −1933 ± 3658
pull
Entries 88
Mean −1075
Std Dev 0

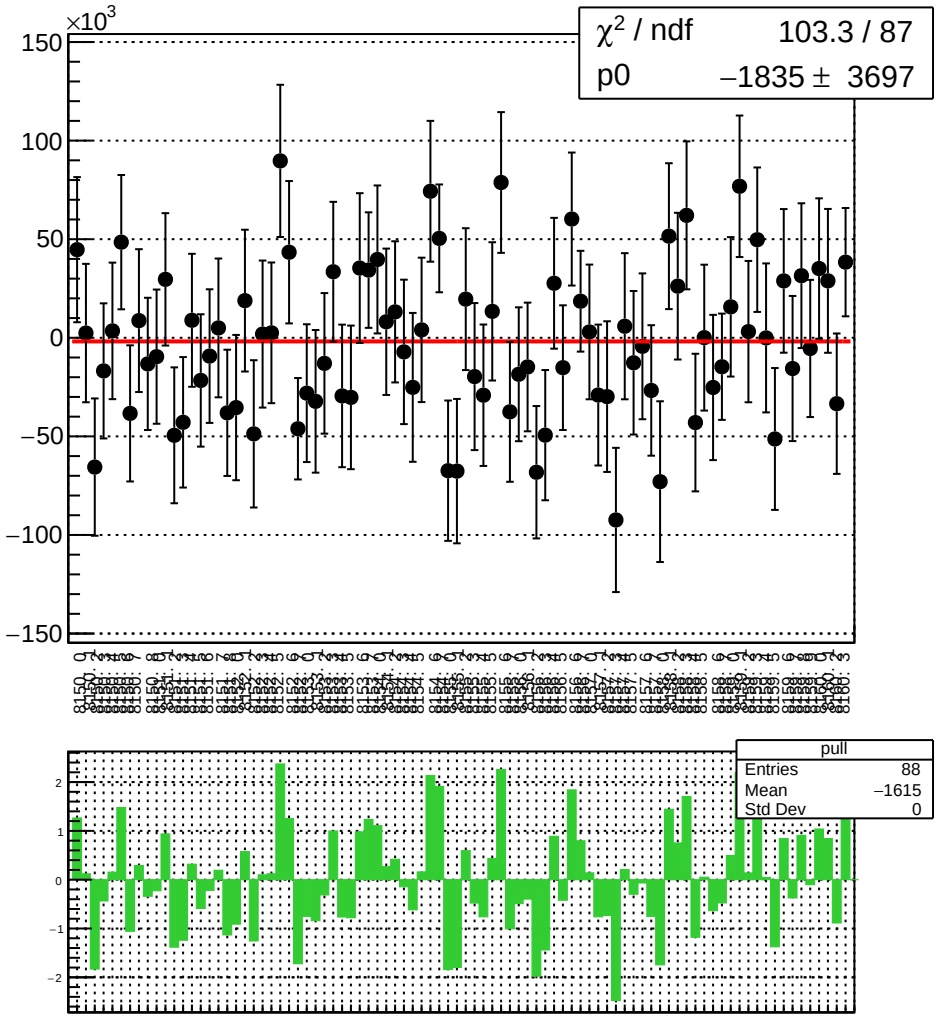

pull1D
Entries 88
Mean −0.00248
Std Dev 1.08

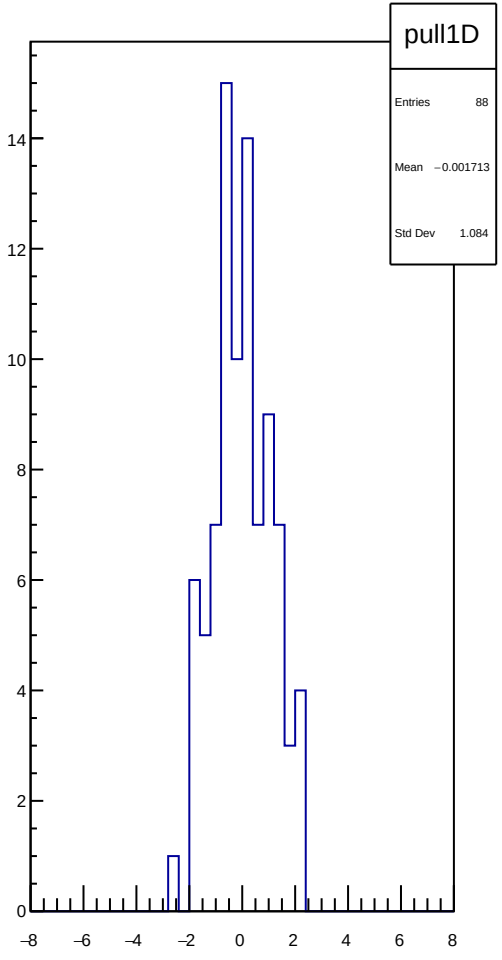

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3015 / 87
p0 3346 ± 2.587
3800
3600
3400
3200
3000

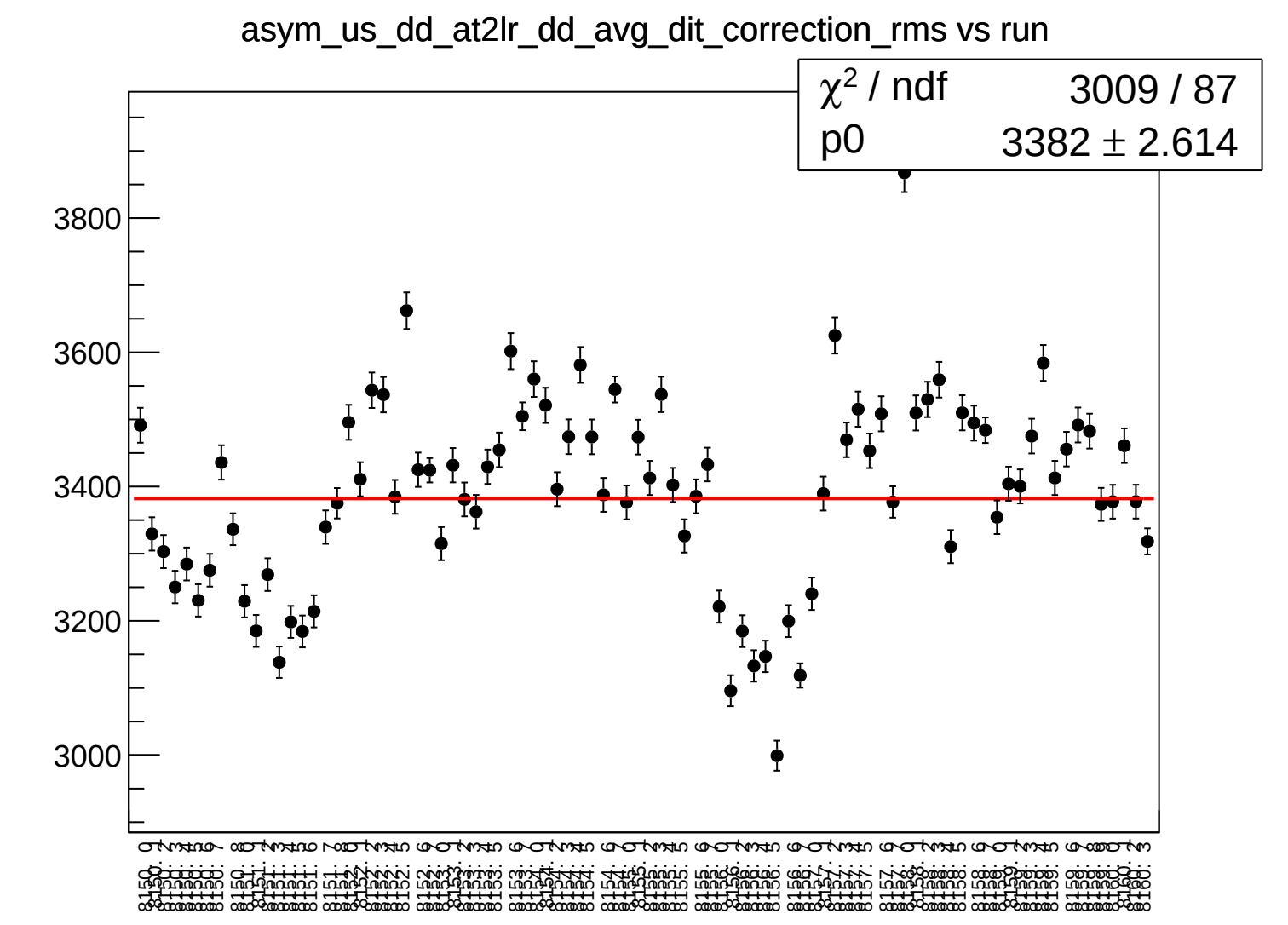

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 75.46 / 87
p0 1288 ± 2467
×10³
pull
Entries 88
Mean 93.85
Std Dev 35.25

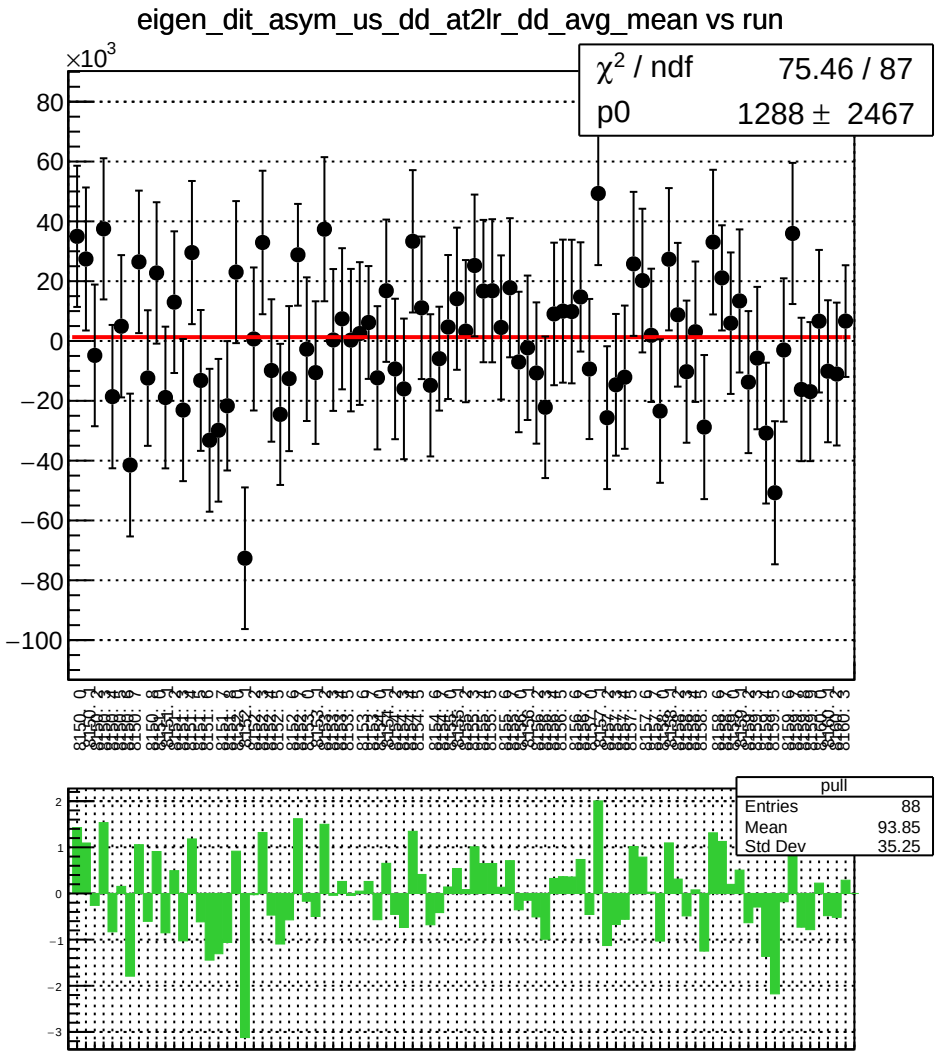

pull1D
Entries 88
Mean −0.01207
Std Dev 0.9259

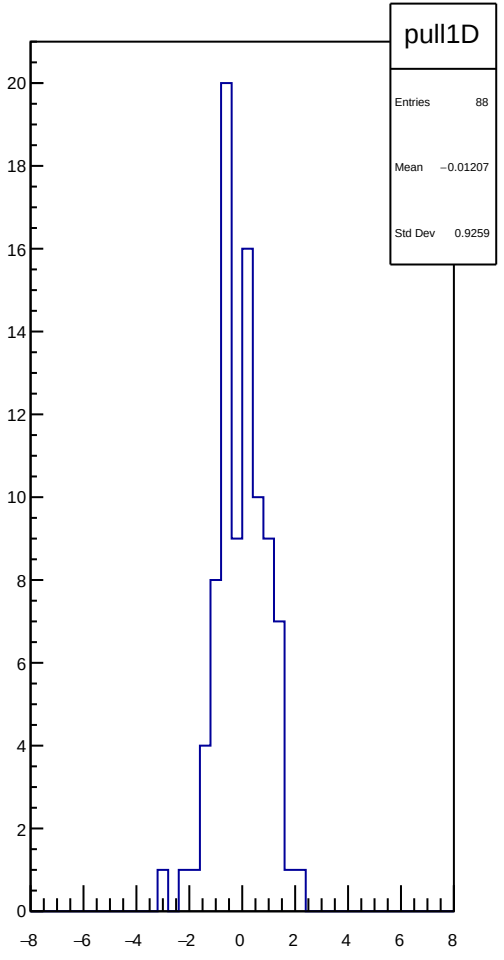

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 88.61 / 87
p0 2259 ± 1.745
2320
2300
2280
2260
2240
2220
2200

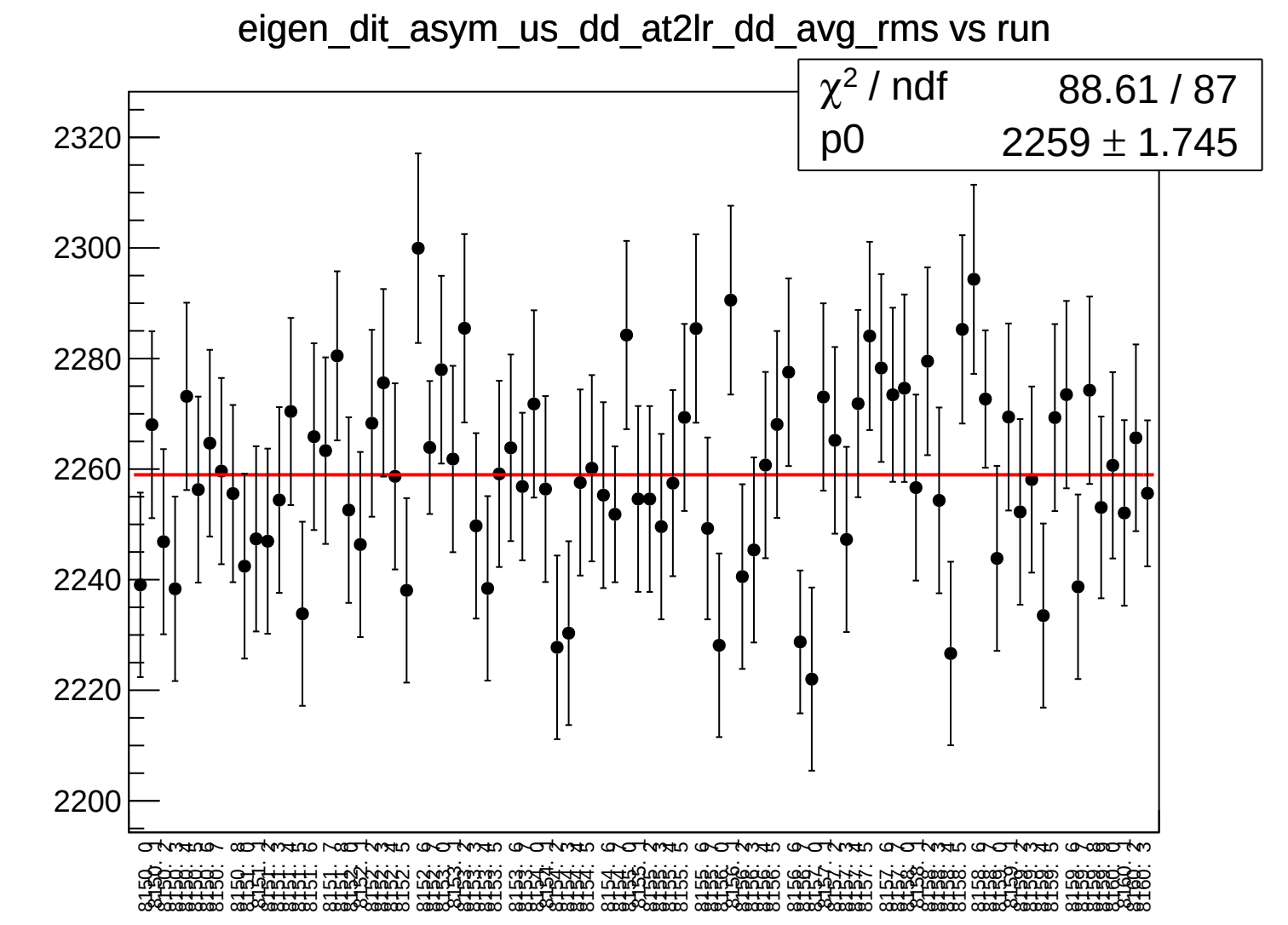

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 103.3 / 87
p0 −1835 ± 3697
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −1615
Std Dev 0
2
1
0
−1
−2

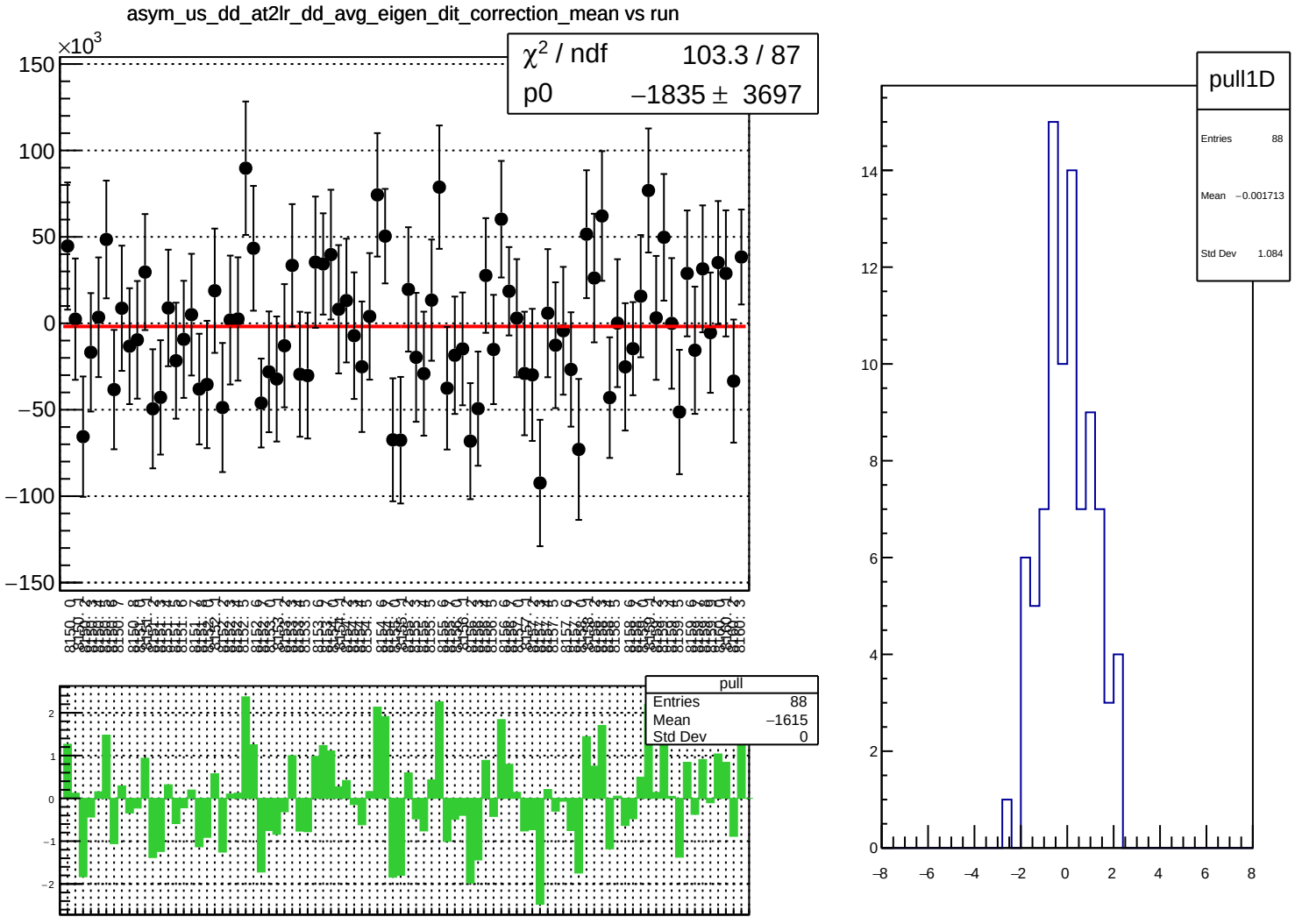

pull1D
Entries 88
Mean −0.001713
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

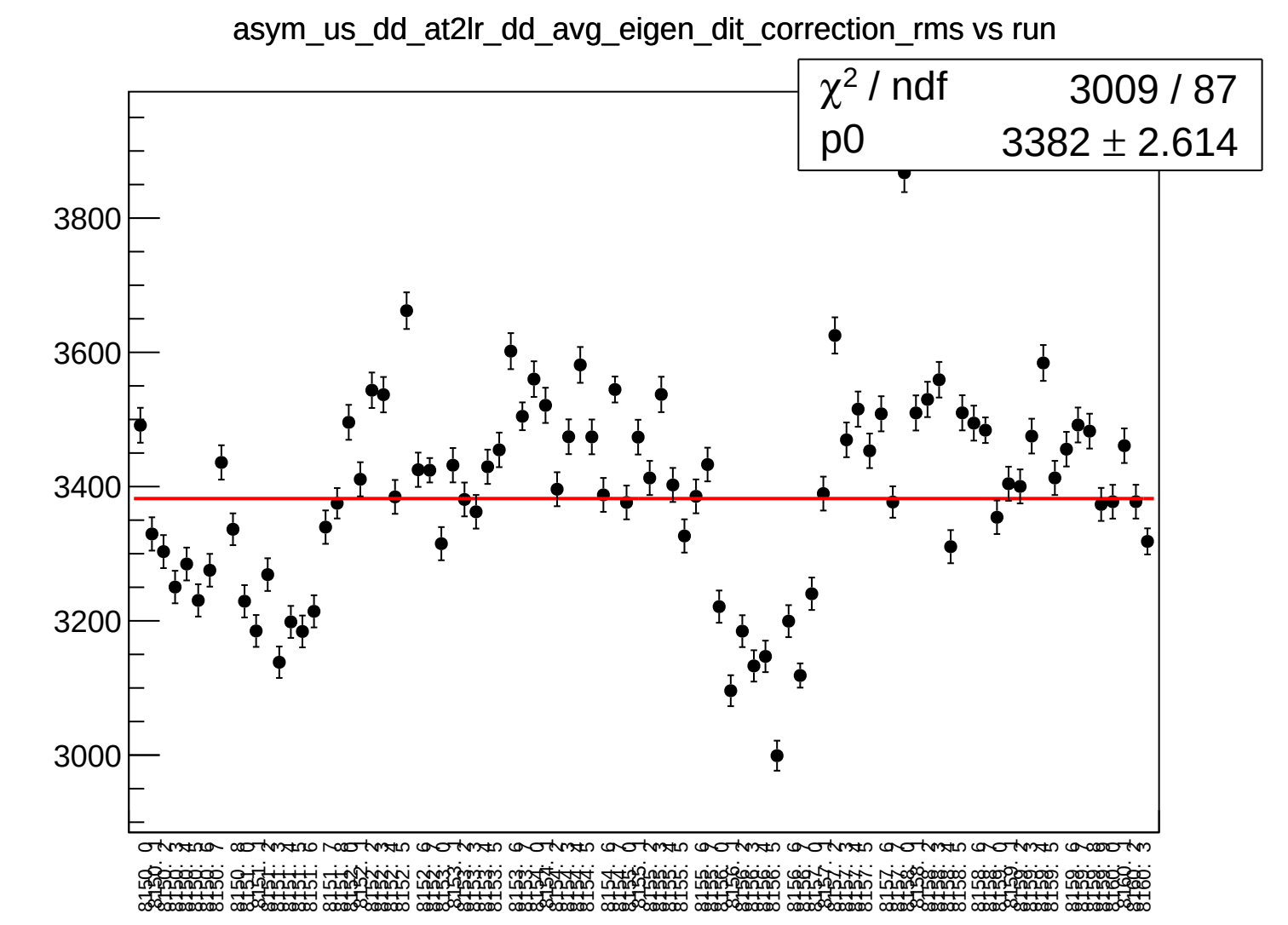

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3009 / 87
p0 3382 ± 2.614
3800
3600
3400
3200
3000

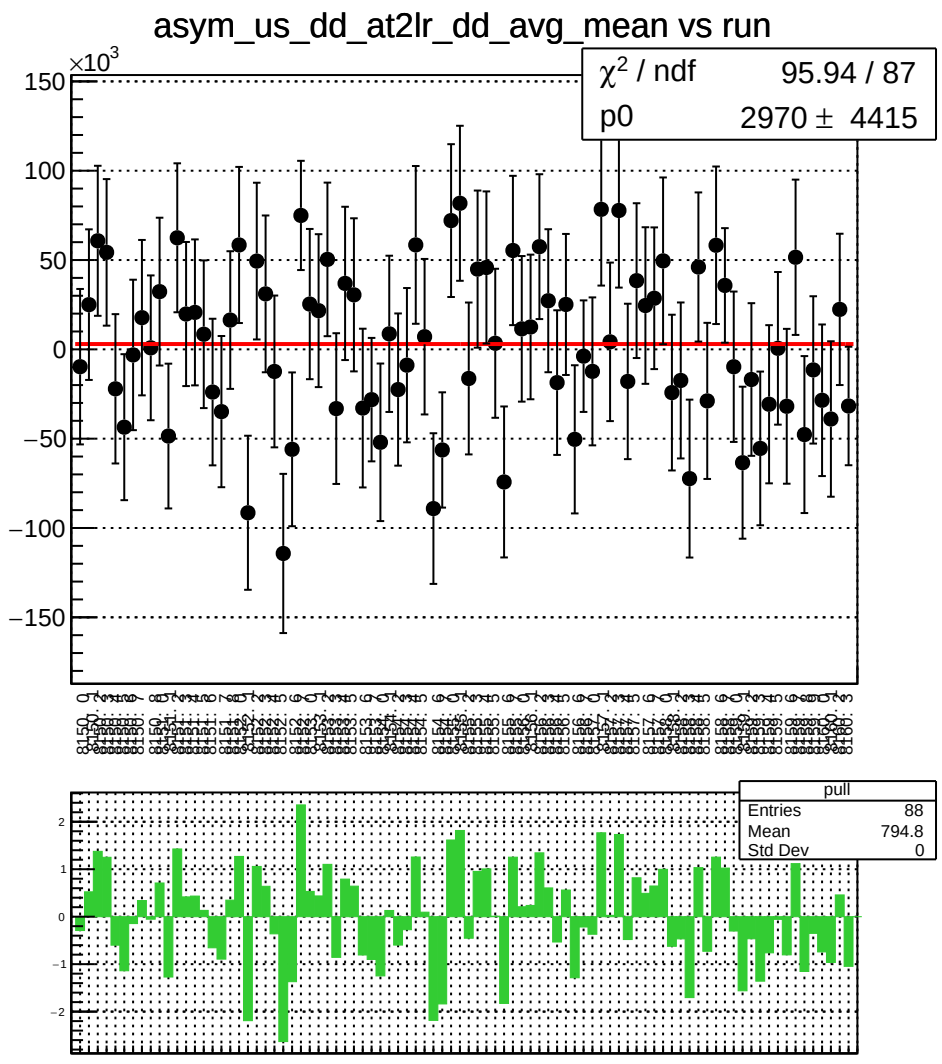

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 75.46 / 87
p0 1288 ± 2467
pull
Entries 88
Mean 93.85
Std Dev 35.25

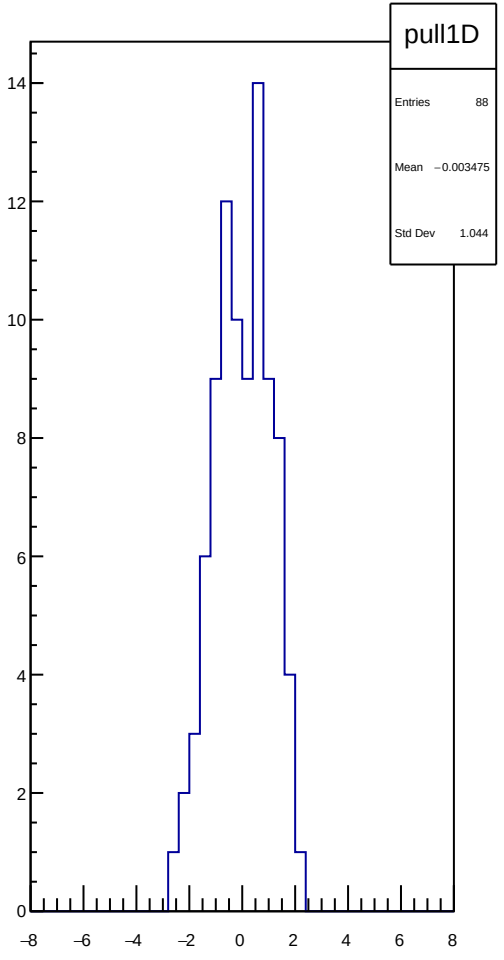

pull1D
Entries 88
Mean −0.01207
Std Dev 0.9259

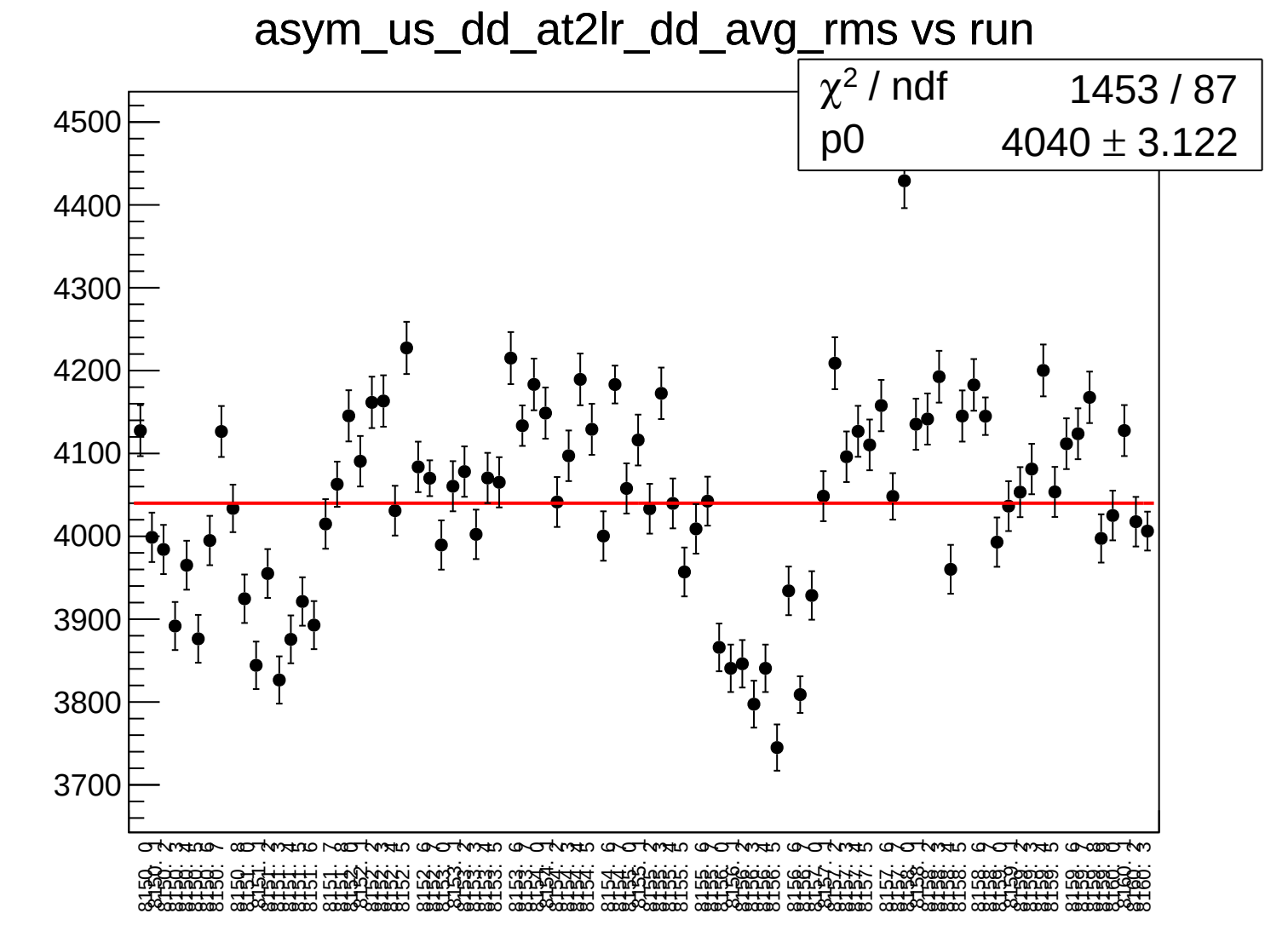

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 88.61 / 87
p0 2259 ± 1.745
2320
2300
2280
2260
2240
2220
2200

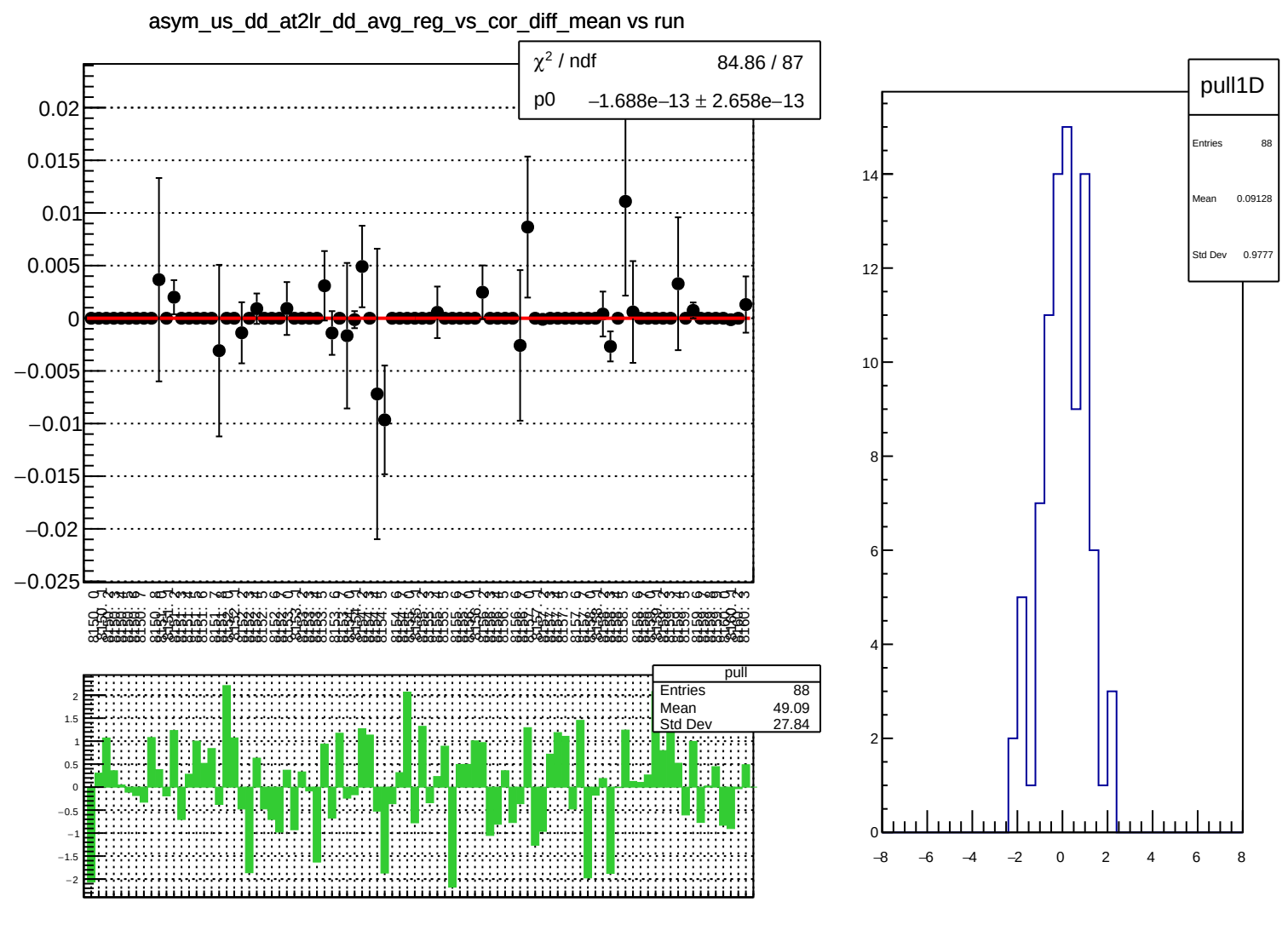

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 103.3 / 87
p0 −1835 ± 3697
×10³
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −1615
Std Dev 0
pull1D
Entries 88
Mean −0.001713
Std Dev 1.084

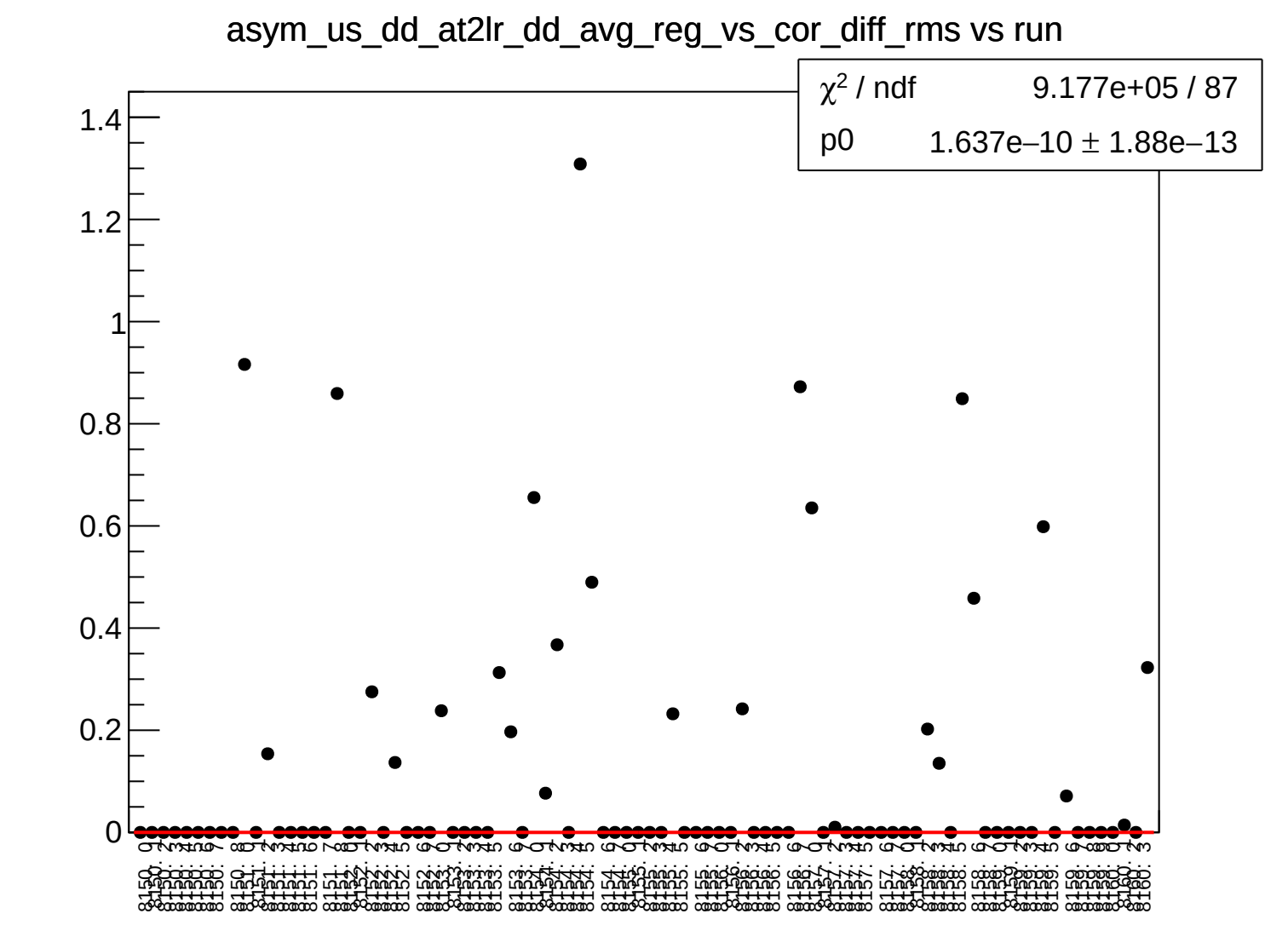

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3009 / 87
p0 3382 ± 2.614
3800
3600
3400
3200
3000

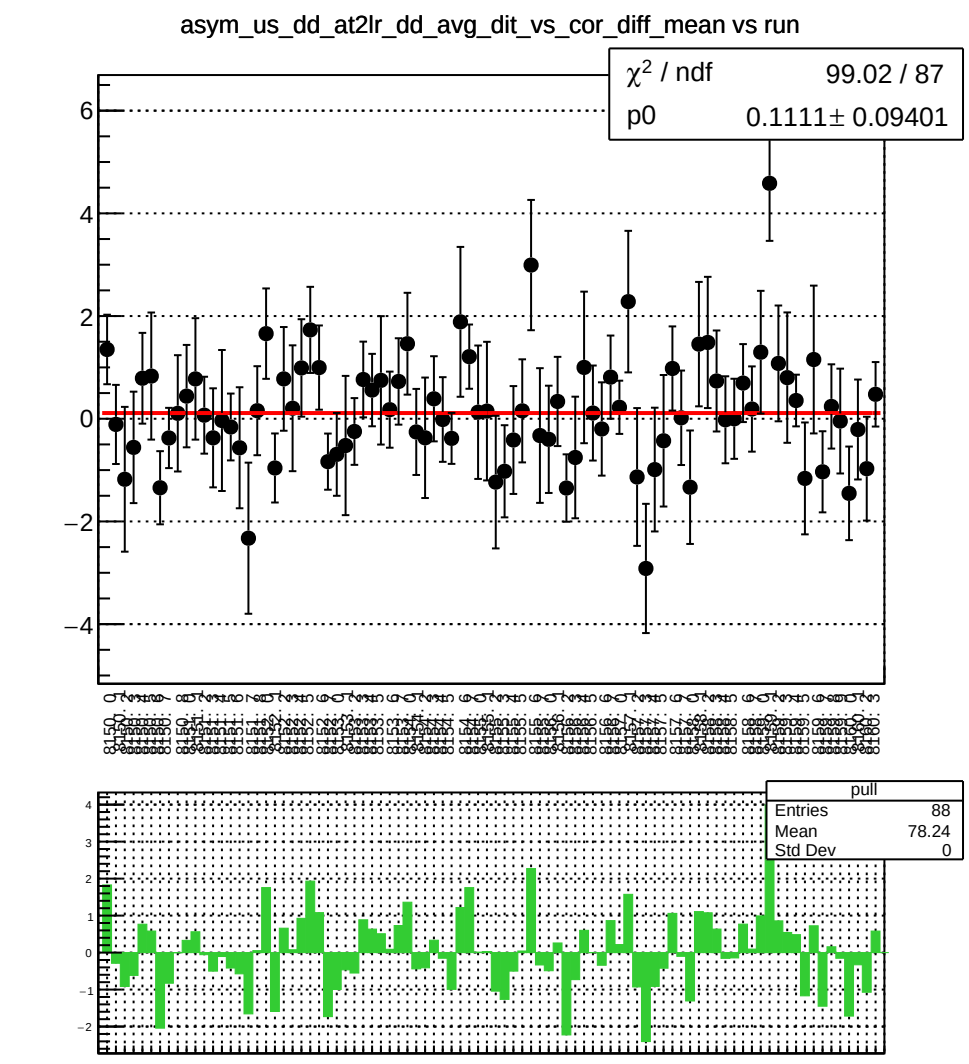

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 95.94 / 87
p0 2970 ± 4415
pull
Entries 88
Mean 794.8
Std Dev 0

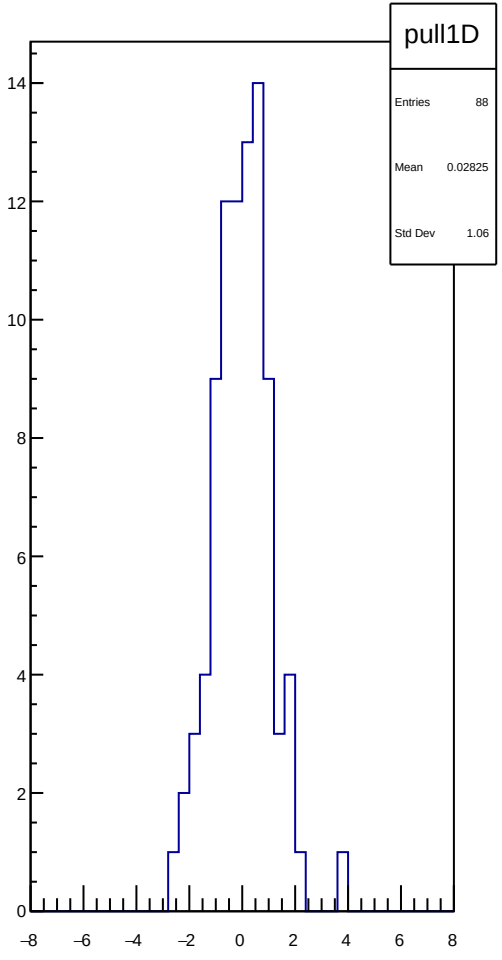

pull1D
Entries 88
Mean −0.003475
Std Dev 1.044

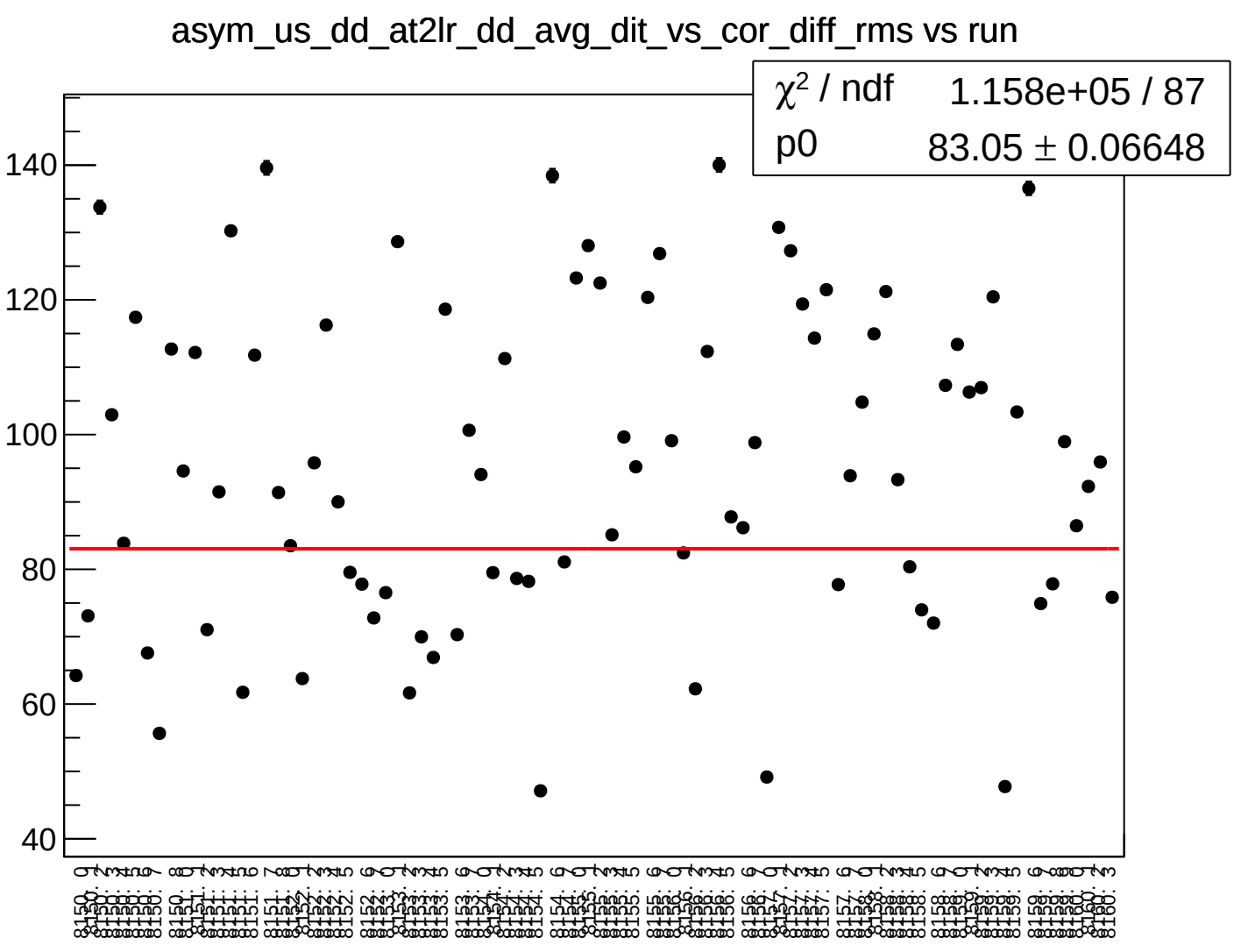

asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 1453 / 87
p0 4040 ± 3.122
4500
4400
4300
4200
4100
4000
3900
3800
3700

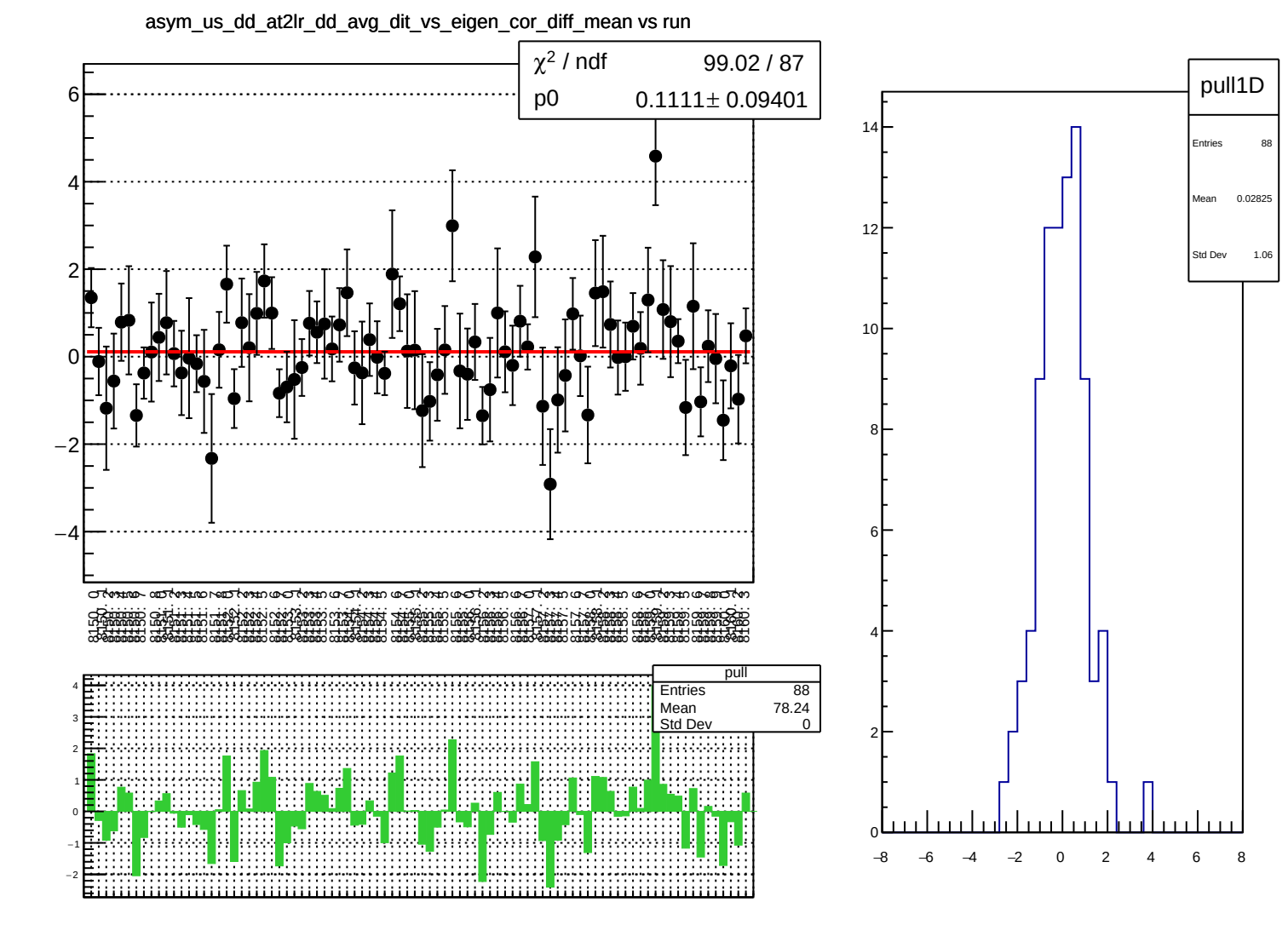

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.86 / 87
p0 −1.688e−13 ± 2.658e−13
pull
Entries 88
Mean 49.09
Std Dev 27.84
pull1D
Entries 88
Mean 0.09128
Std Dev 0.9777

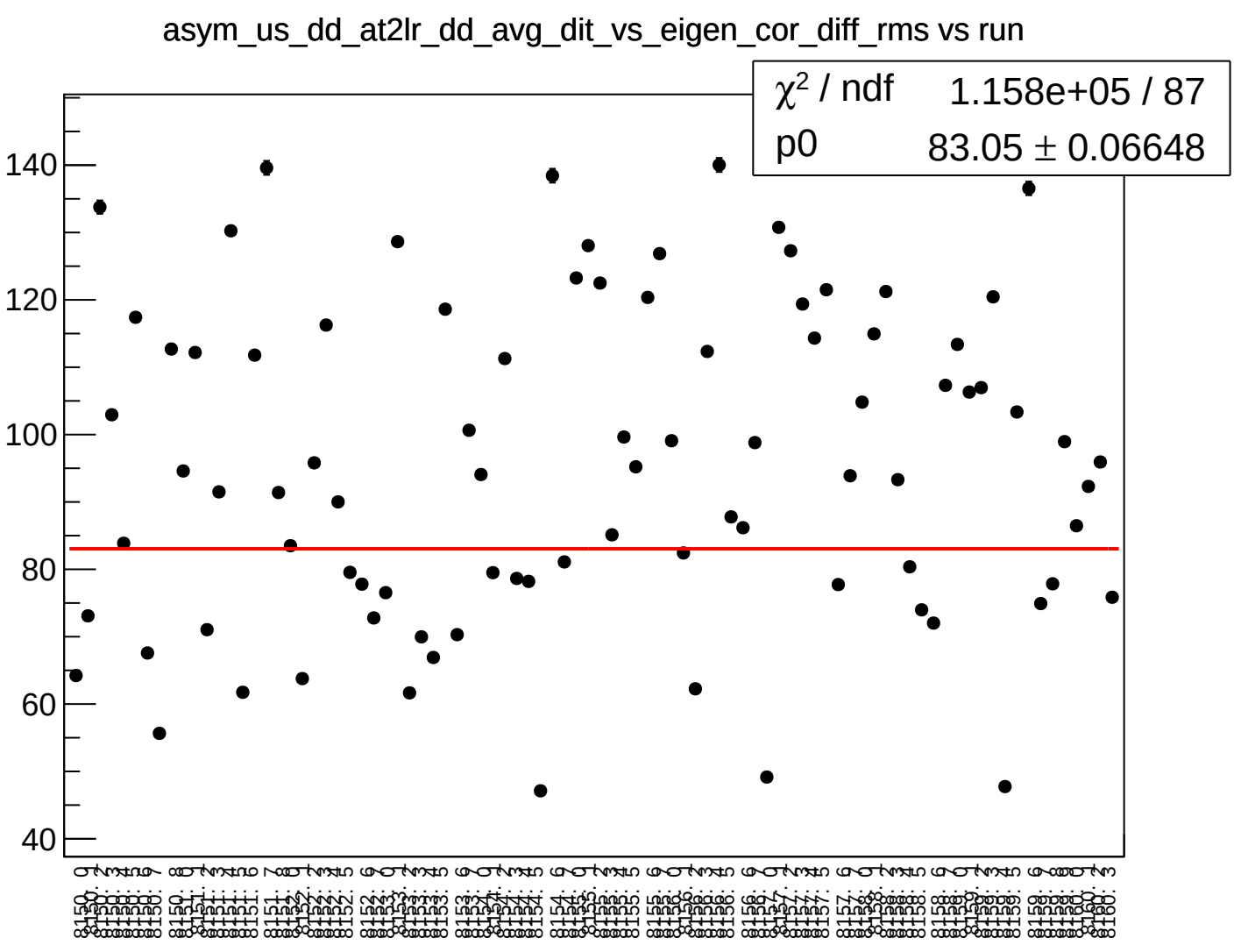

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.177e+05 / 87
p0 1.637e−10 ± 1.88e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

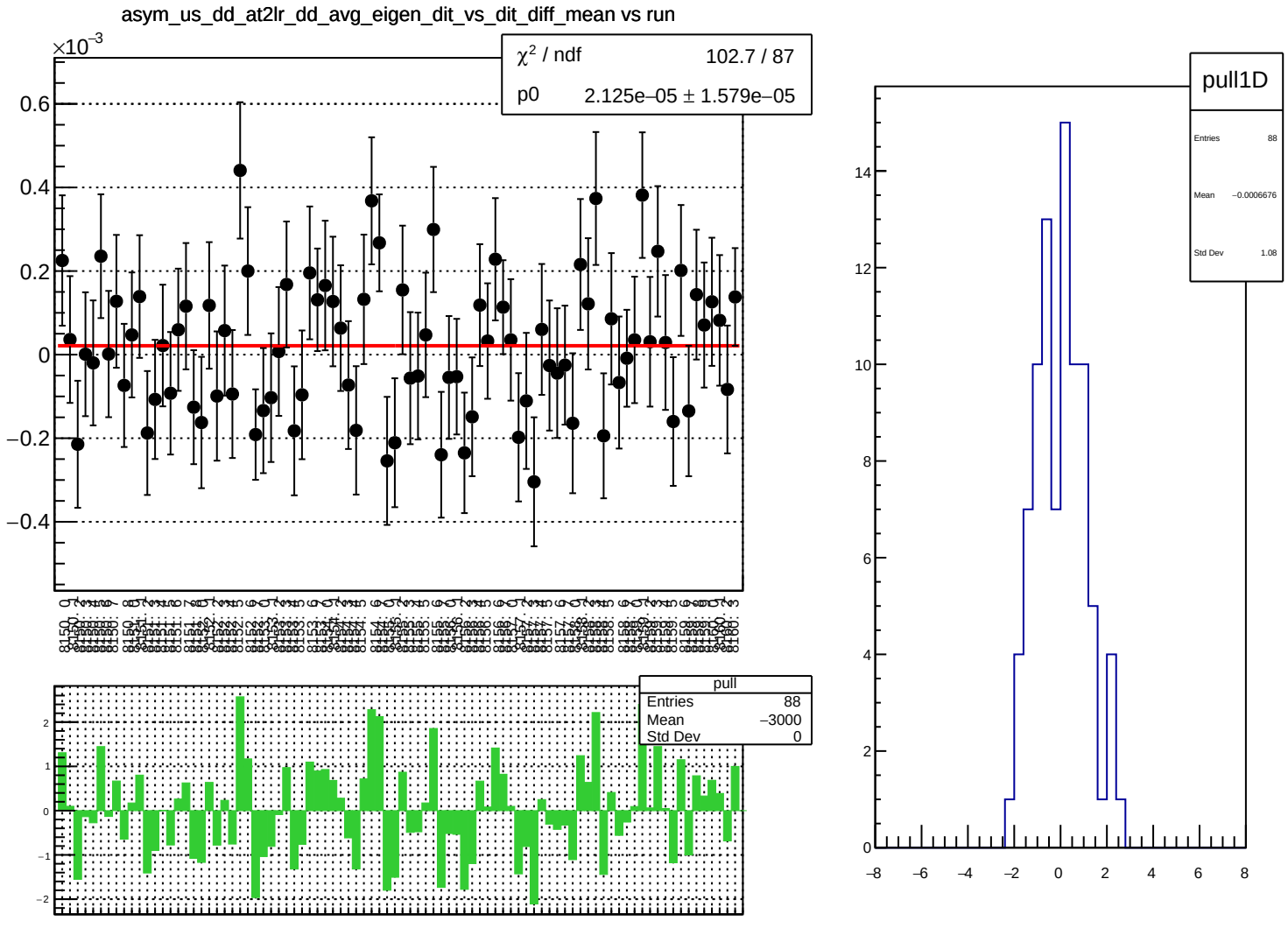

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.02 / 87
p0 0.1111± 0.09401
pull
Entries 88
Mean 78.24
Std Dev 0

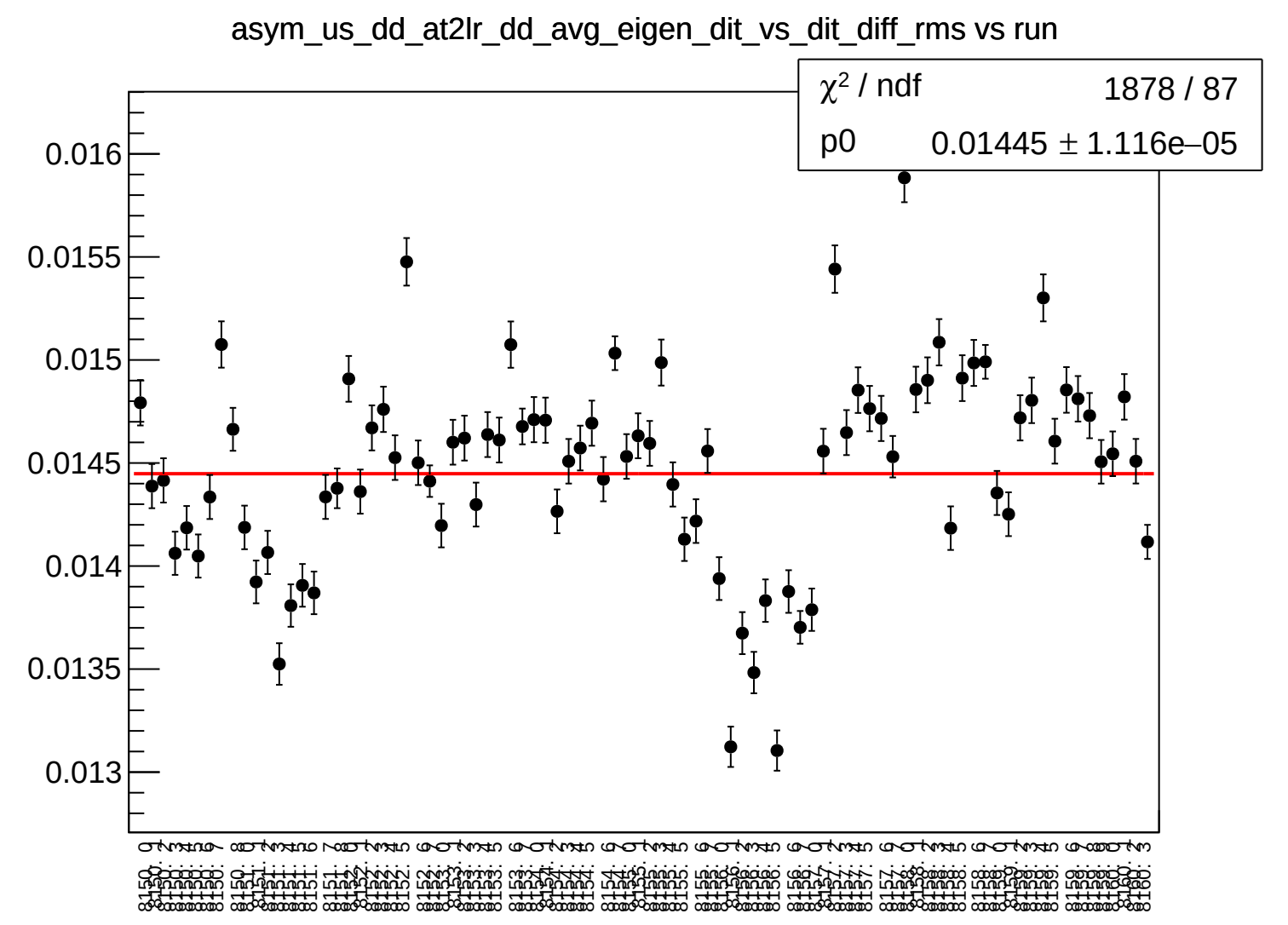

pull1D
Entries 88
Mean 0.02825
Std Dev 1.06

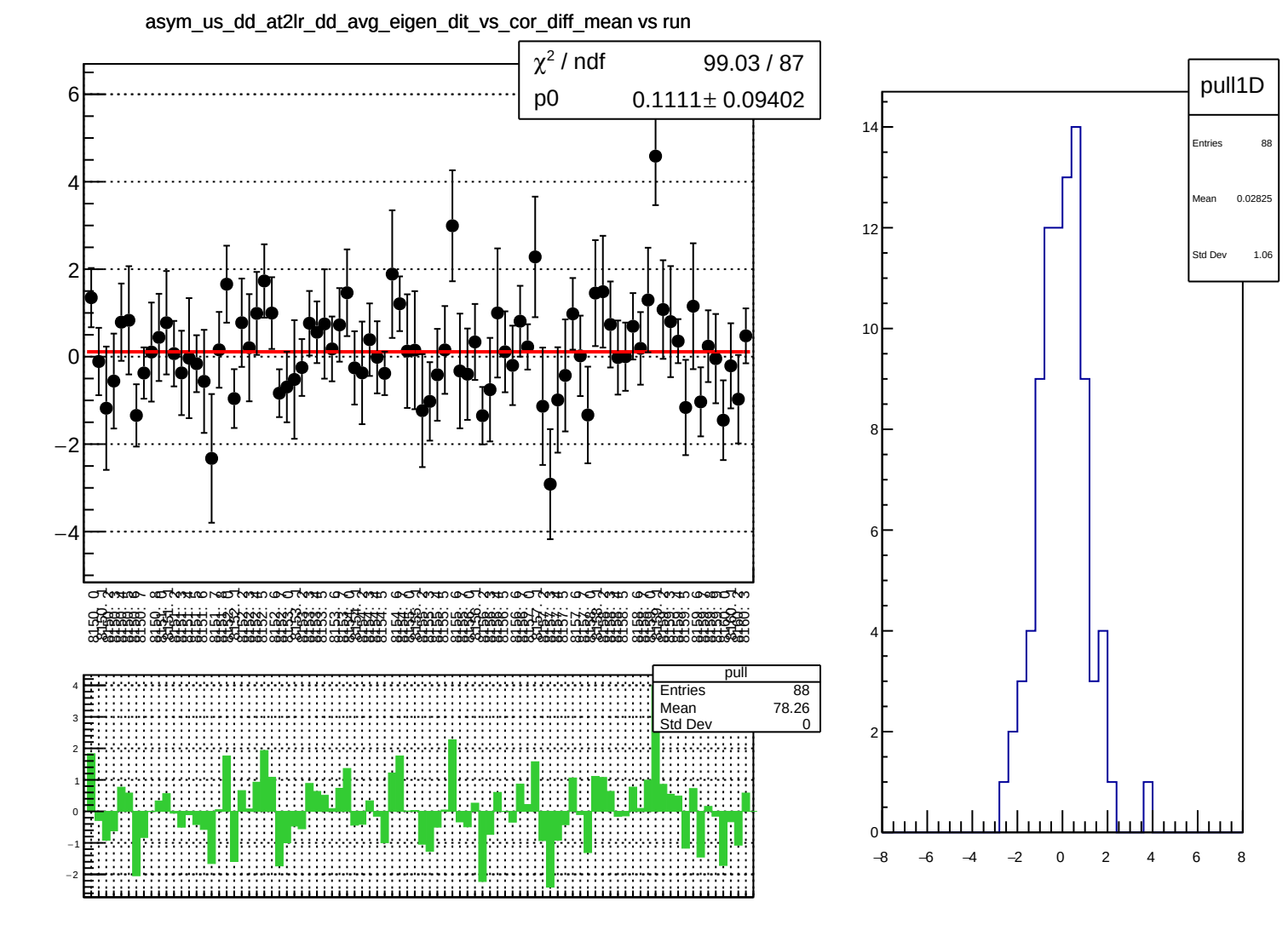

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.158e+05 / 87
p0 83.05 ± 0.06648
140
120
100
80
60
40

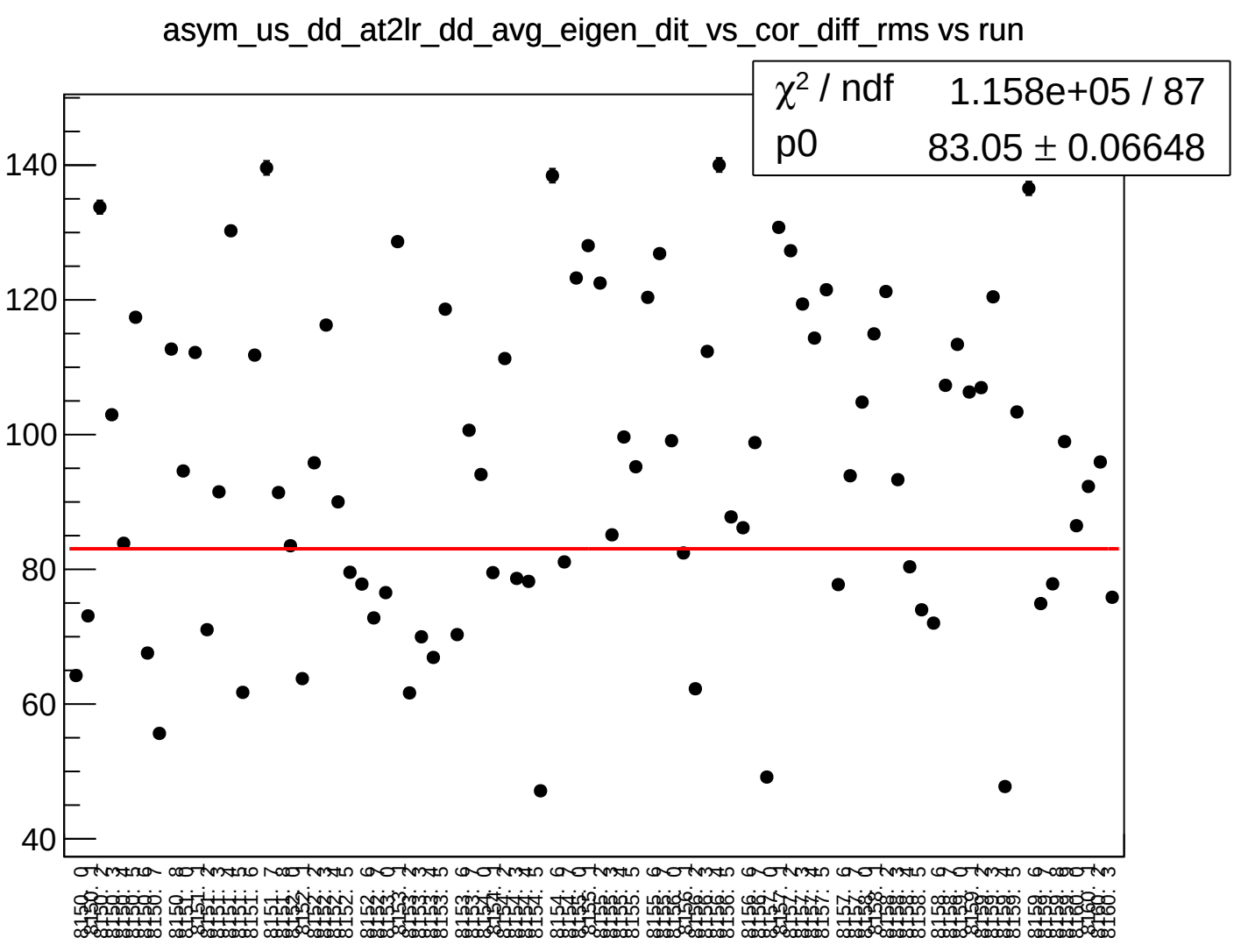

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.02 / 87
p0 0.1111± 0.09401
pull
Entries 88
Mean 78.24
Std Dev 0
pull1D
Entries 88
Mean 0.02825
Std Dev 1.06

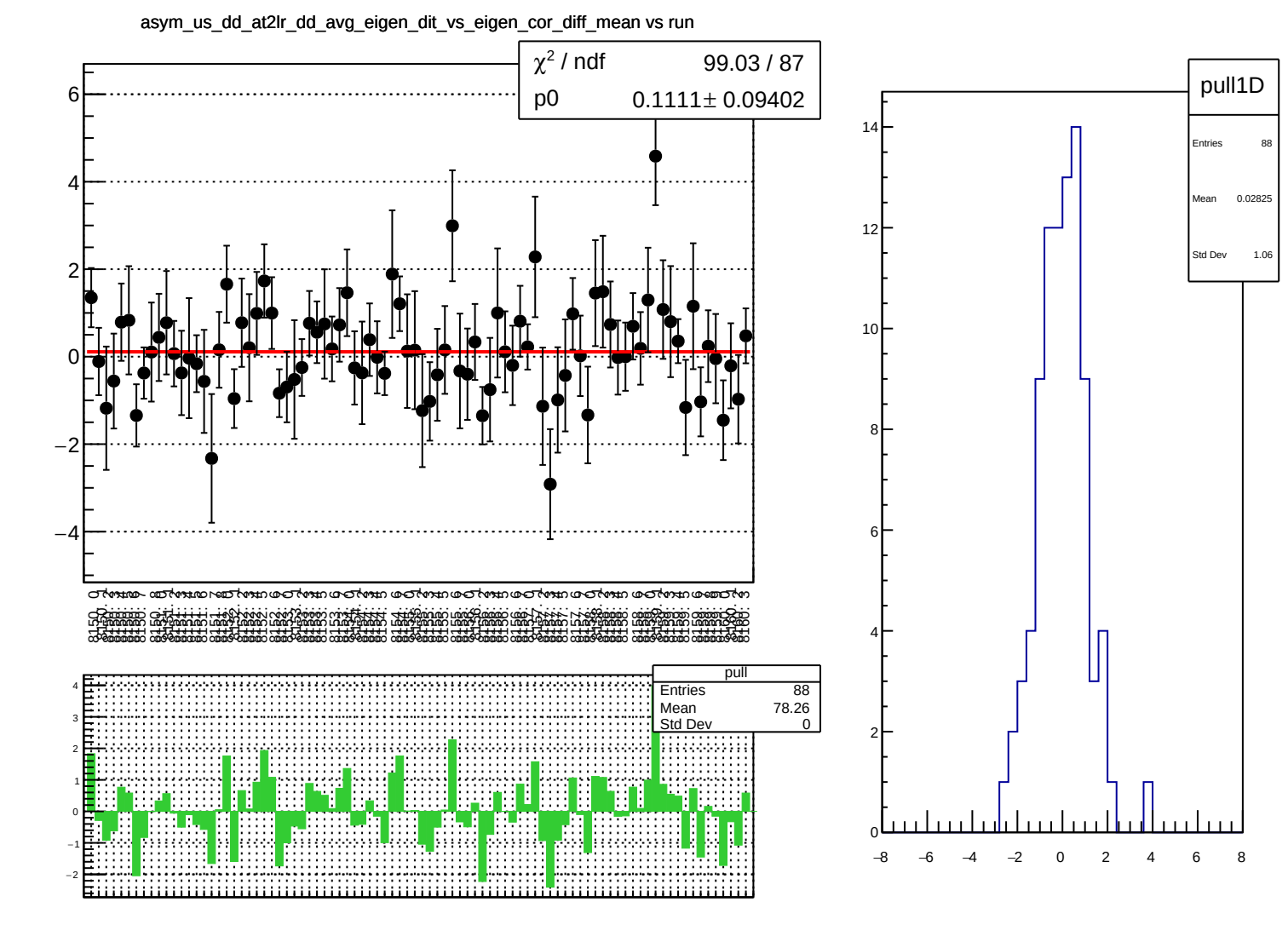

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.158e+05 / 87
p0 83.05 ± 0.06648
140
120
100
80
60
40

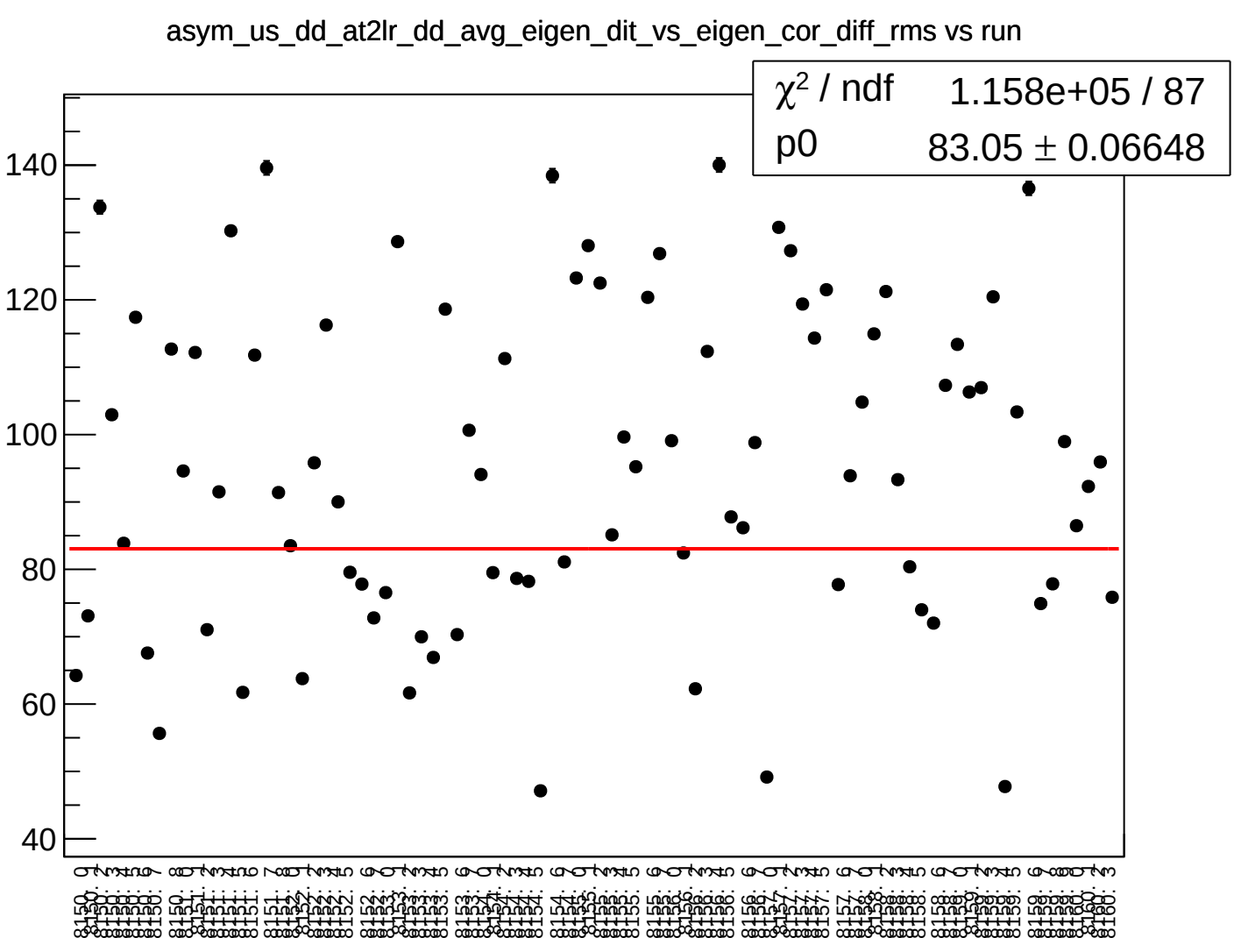

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.7 / 87
p0 2.125e−05 ± 1.579e−05
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 88
Mean −3000
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0006676
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

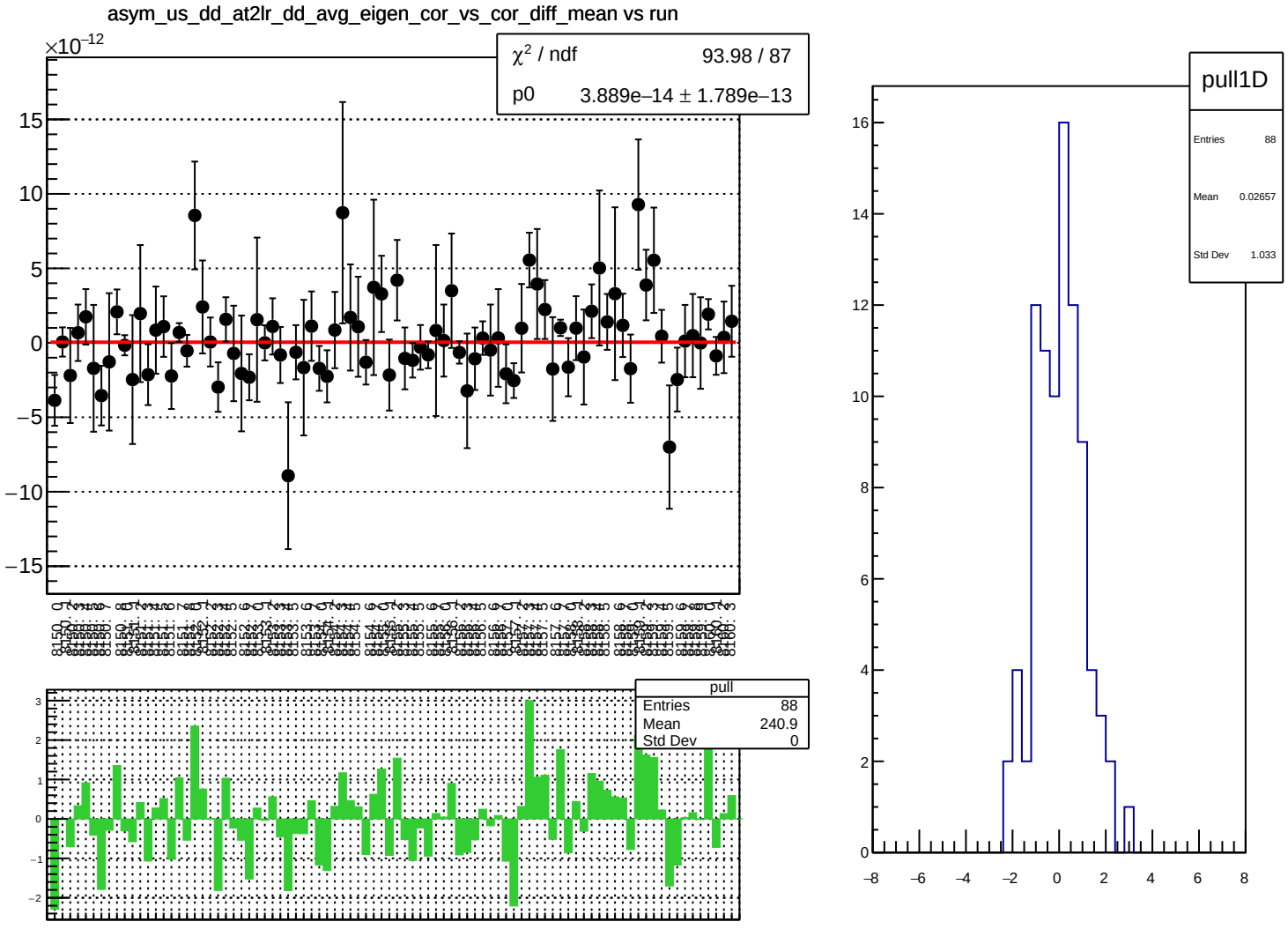

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1878 / 87
p0 0.01445 ± 1.116e–05
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013

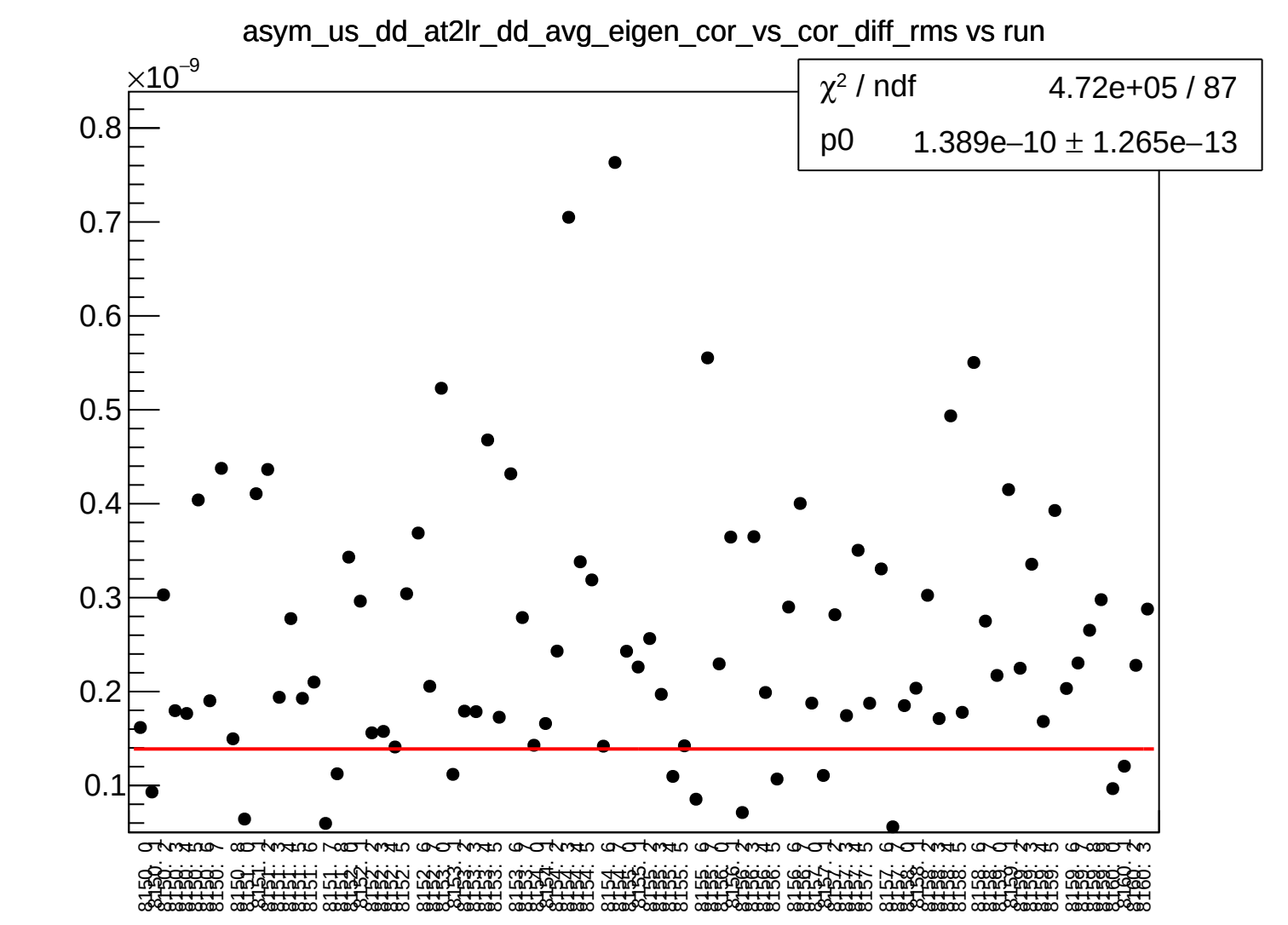

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.03 / 87
p0 0.1111± 0.09402
pull
Entries 88
Mean 78.26
Std Dev 0
pull1D
Entries 88
Mean 0.02825
Std Dev 1.06

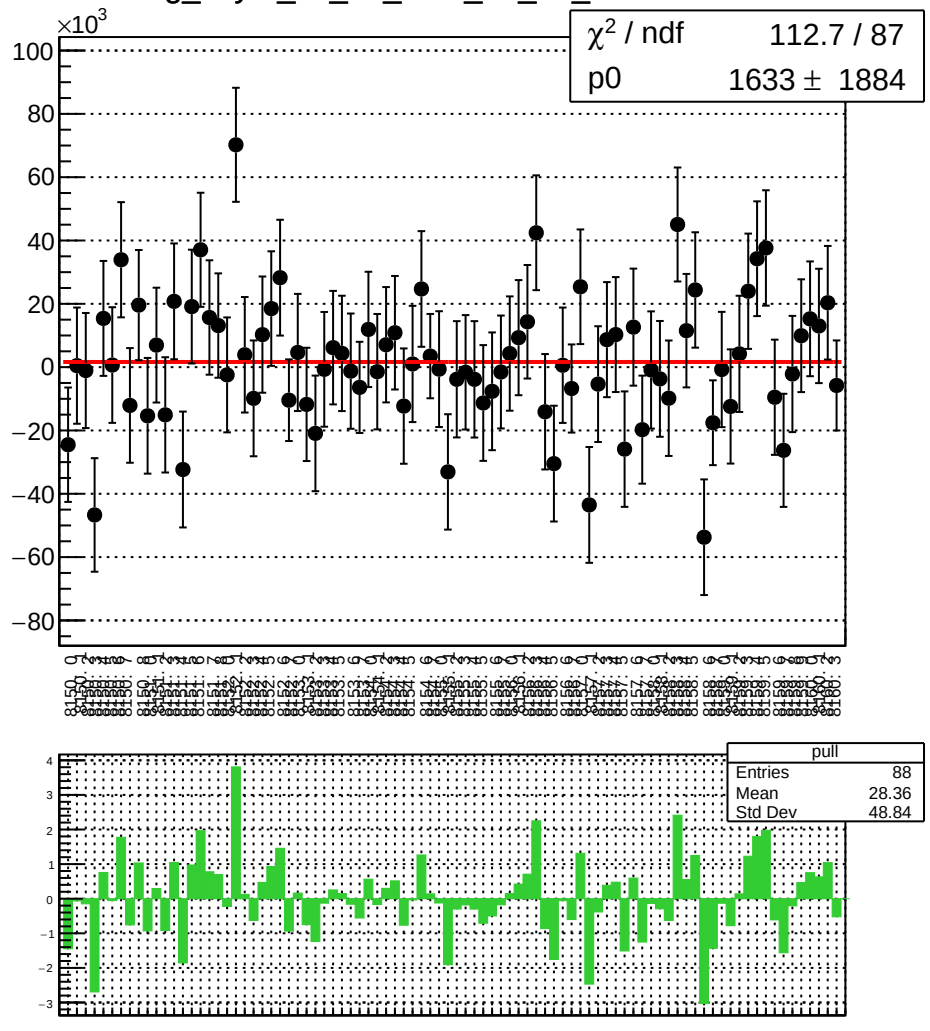

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.158e+05 / 87
p0 83.05 ± 0.06648
140
120
100
80
60
40

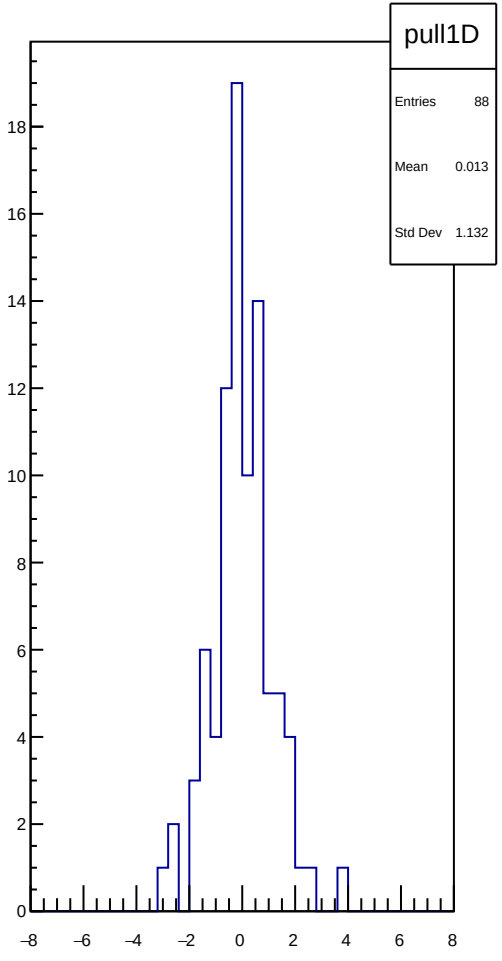

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.03 / 87
p0 0.1111± 0.09402
pull
Entries 88
Mean 78.26
Std Dev 0
pull1D
Entries 88
Mean 0.02825
Std Dev 1.06

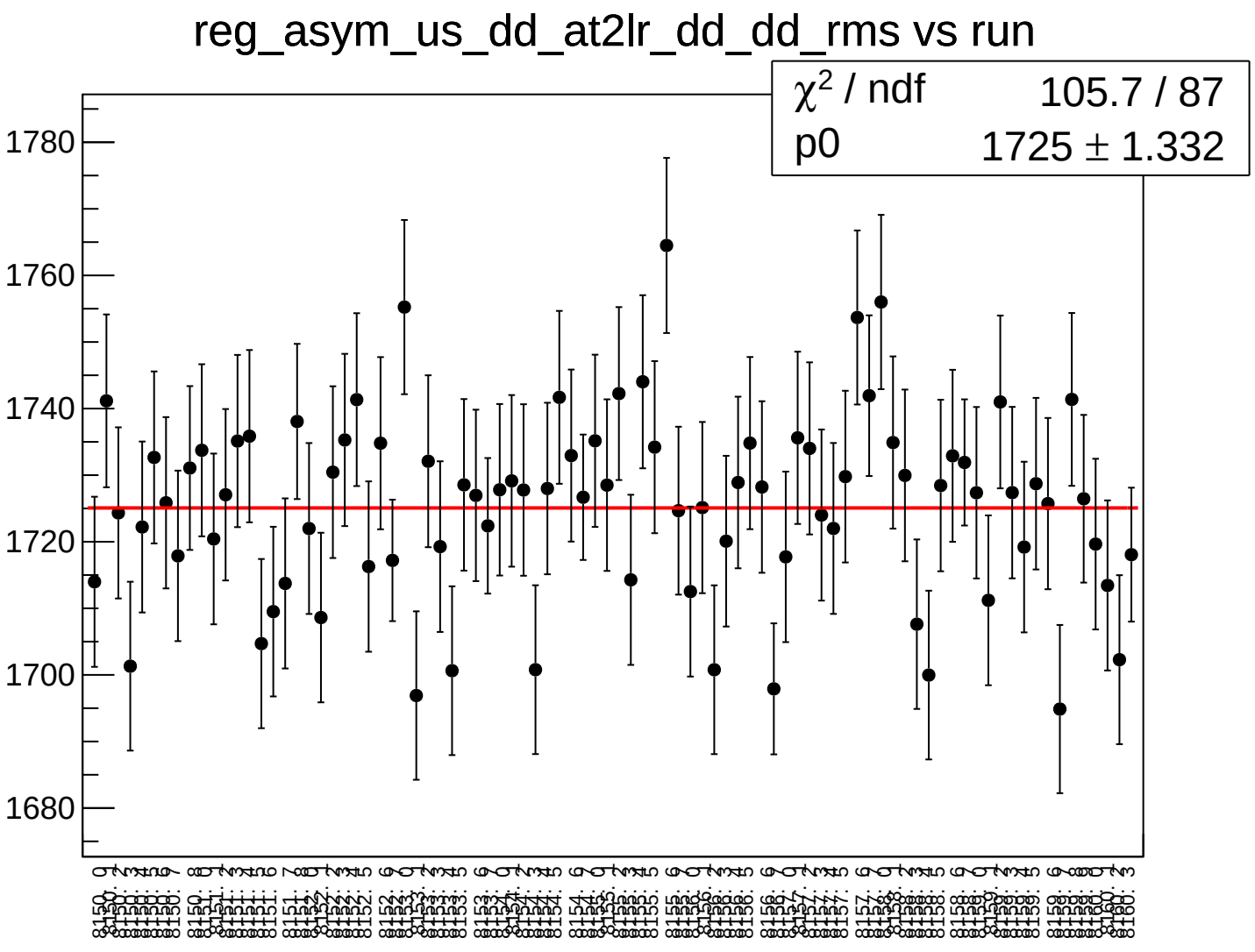

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.158e+05 / 87
p0 83.05 ± 0.06648
140
120
100
80
60
40

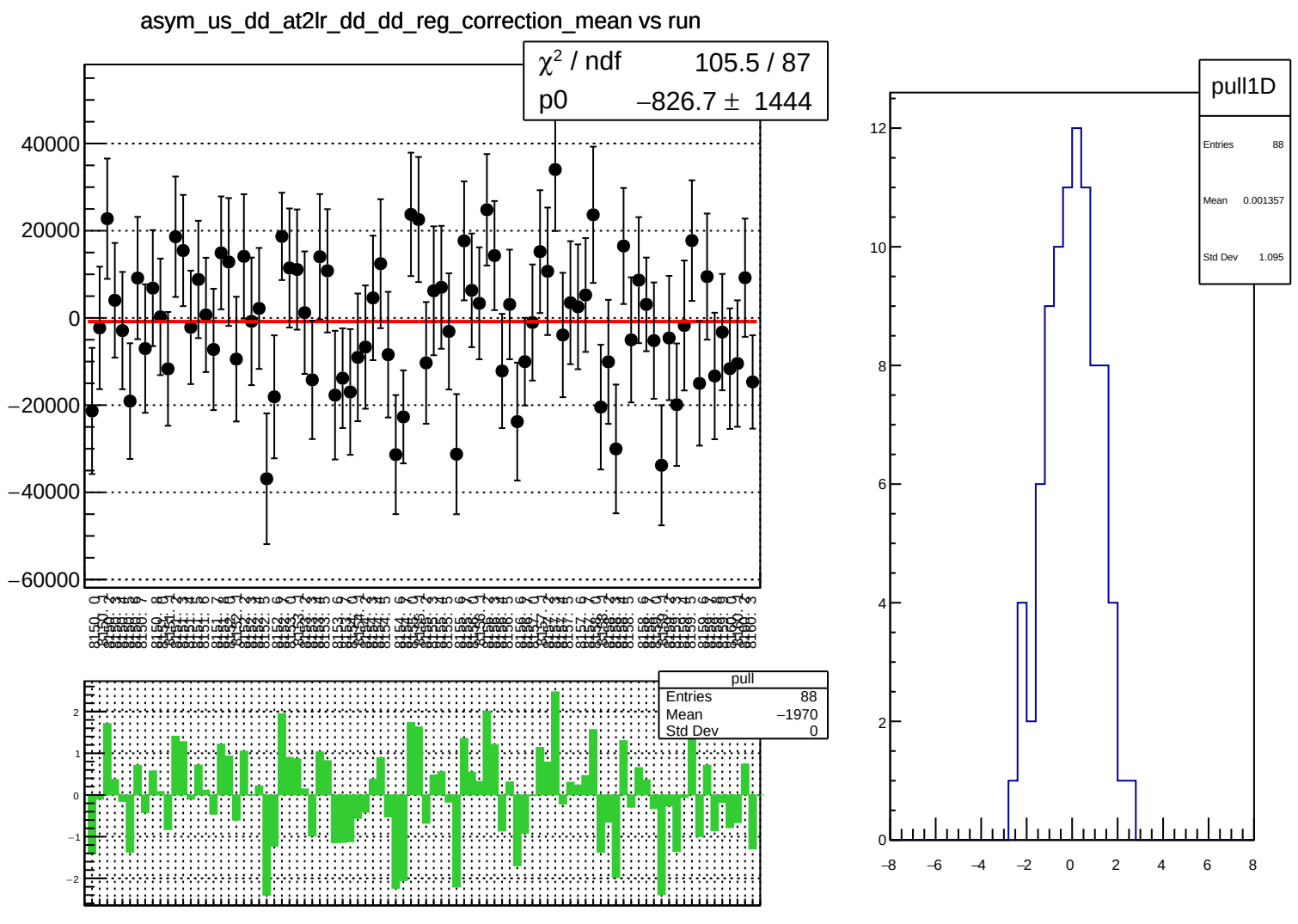

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.98 / 87
p0 3.889e−14 ± 1.789e−13
pull
Entries 88
Mean 240.9
Std Dev 0
pull1D
Entries 88
Mean 0.02657
Std Dev 1.033

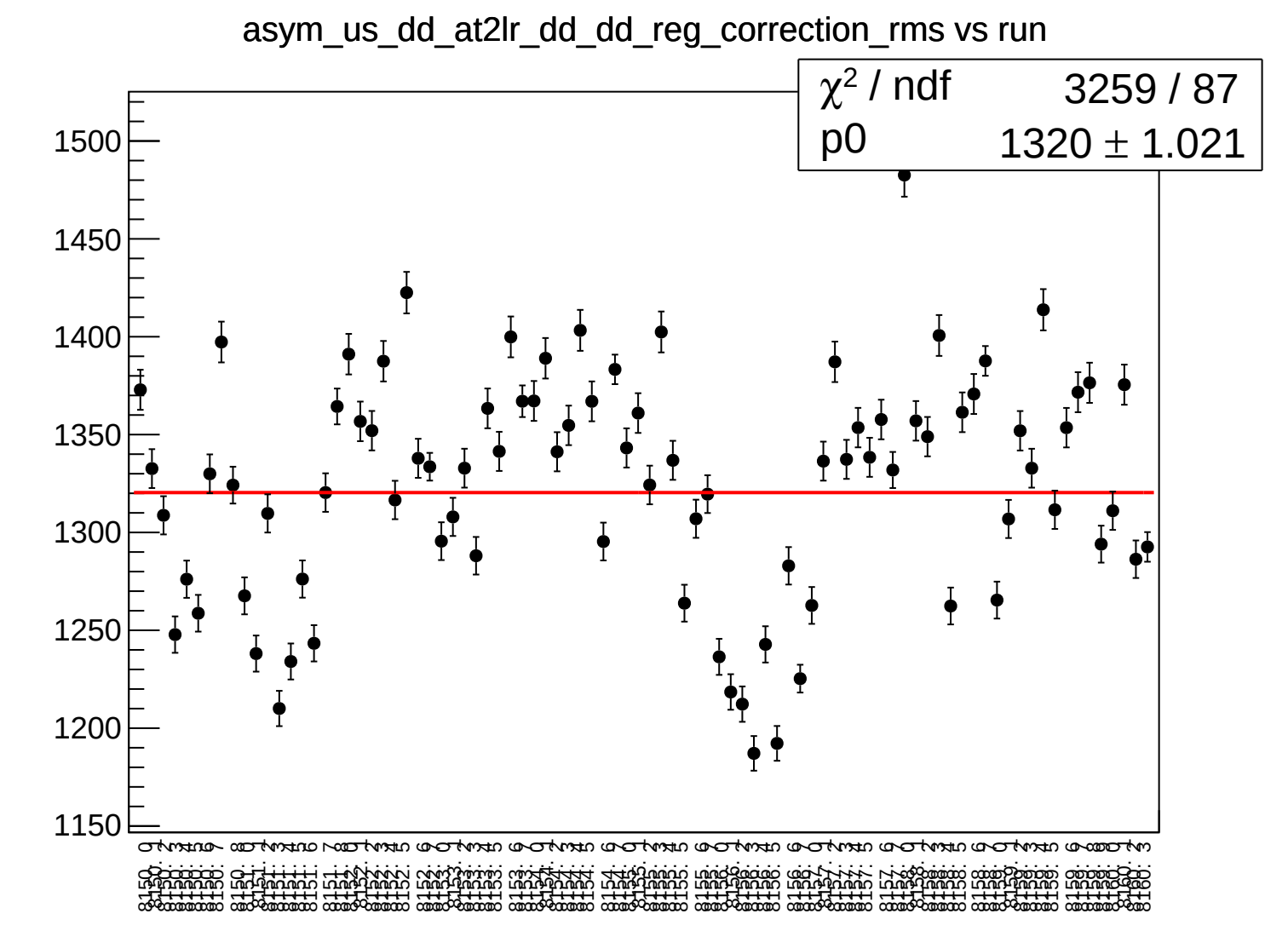

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.72e+05 / 87
p0 1.389e−10 ± 1.265e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

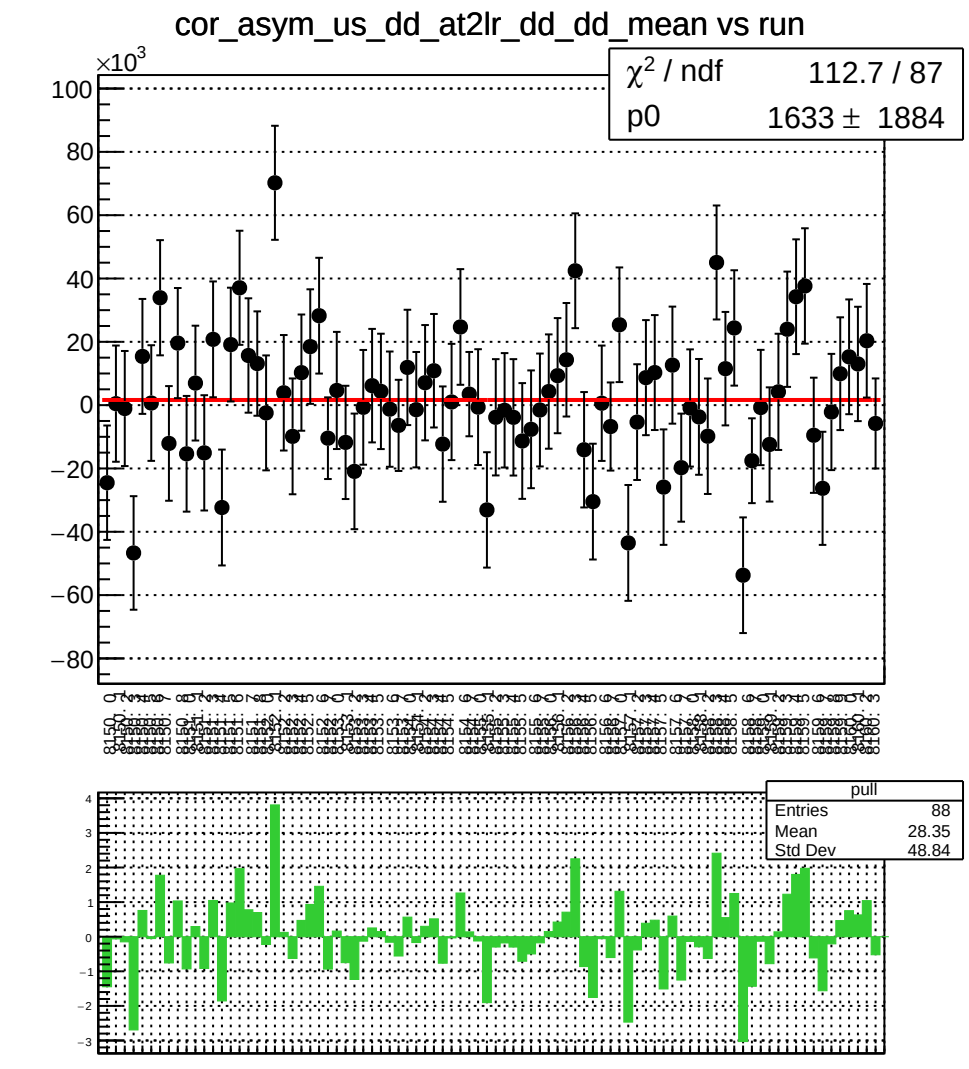

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 112.7 / 87
p0 1633 ± 1884
pull
Entries 88
Mean 28.36
Std Dev 48.84

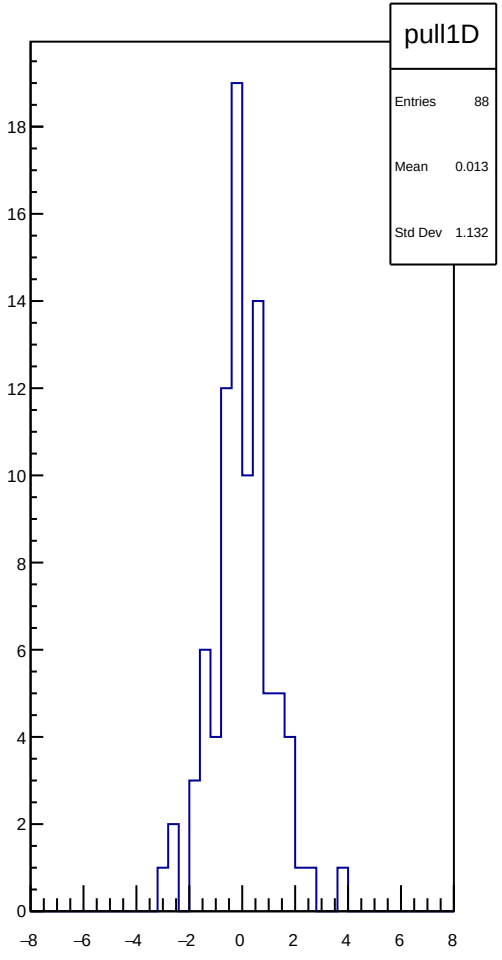

pull1D
Entries 88
Mean 0.013
Std Dev 1.132

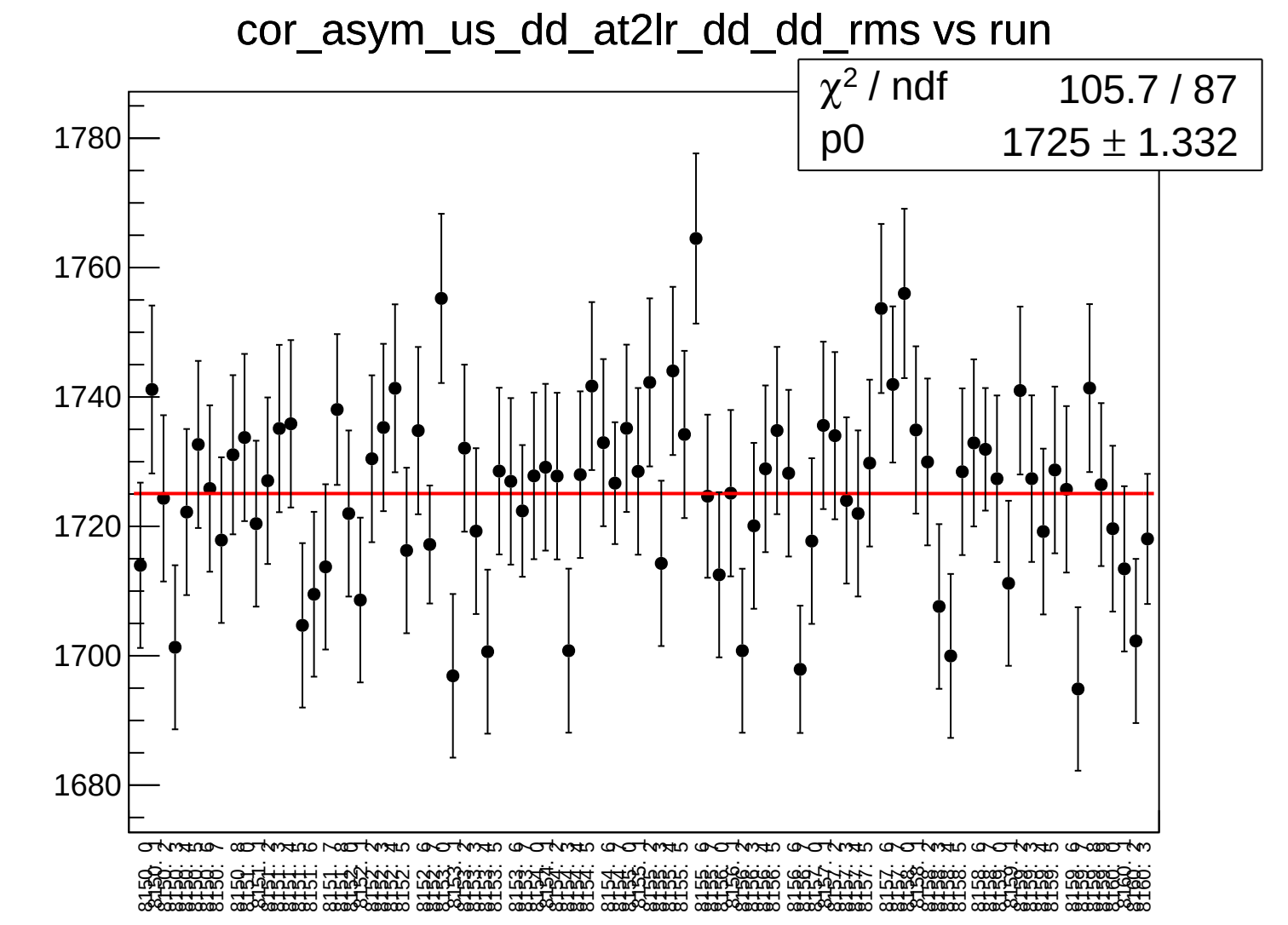

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 105.7 / 87
p0 1725 ± 1.332
1780
1760
1740
1720
1700
1680

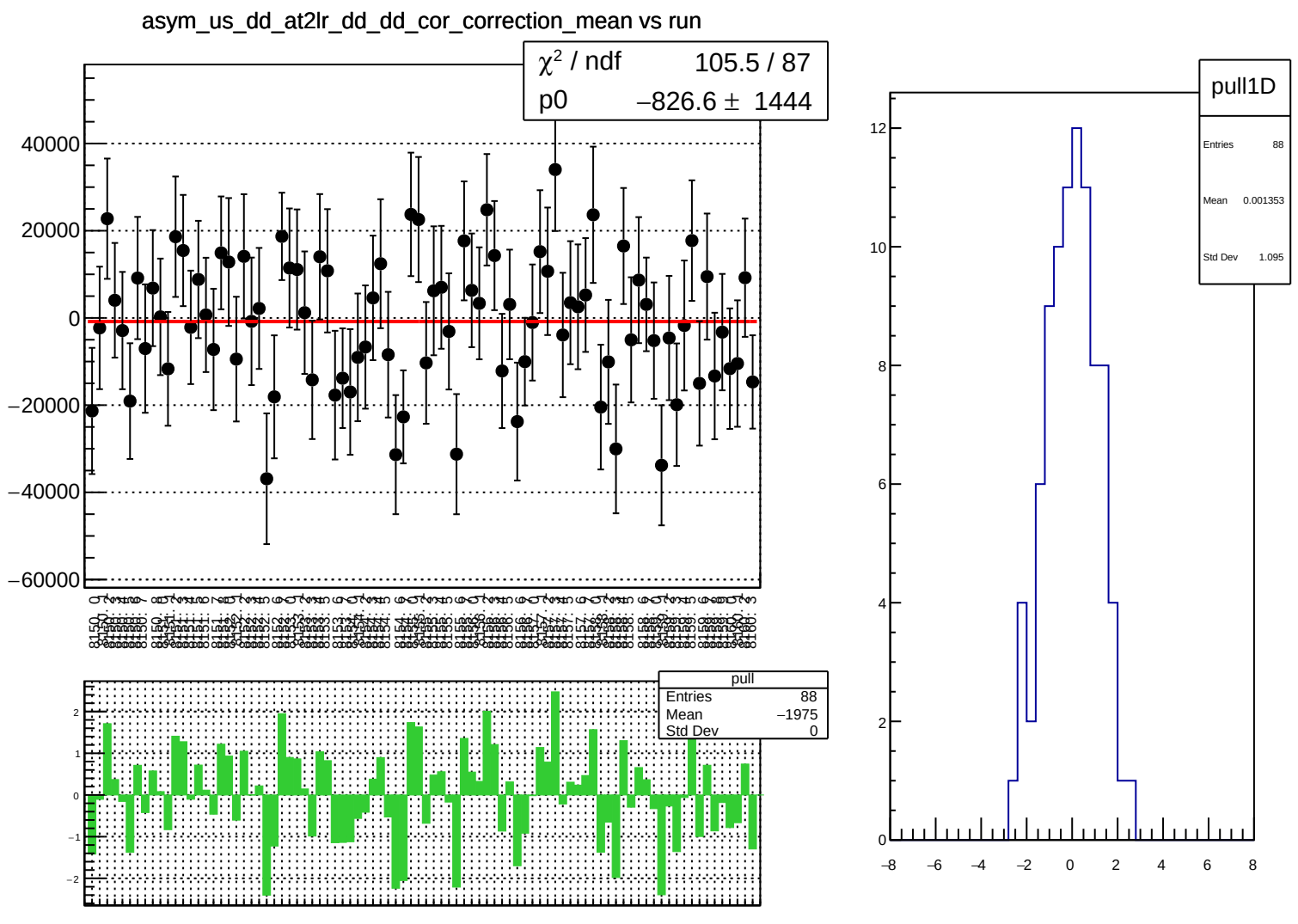

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 105.5 / 87
p0 −826.7 ± 1444
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1970
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001357
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

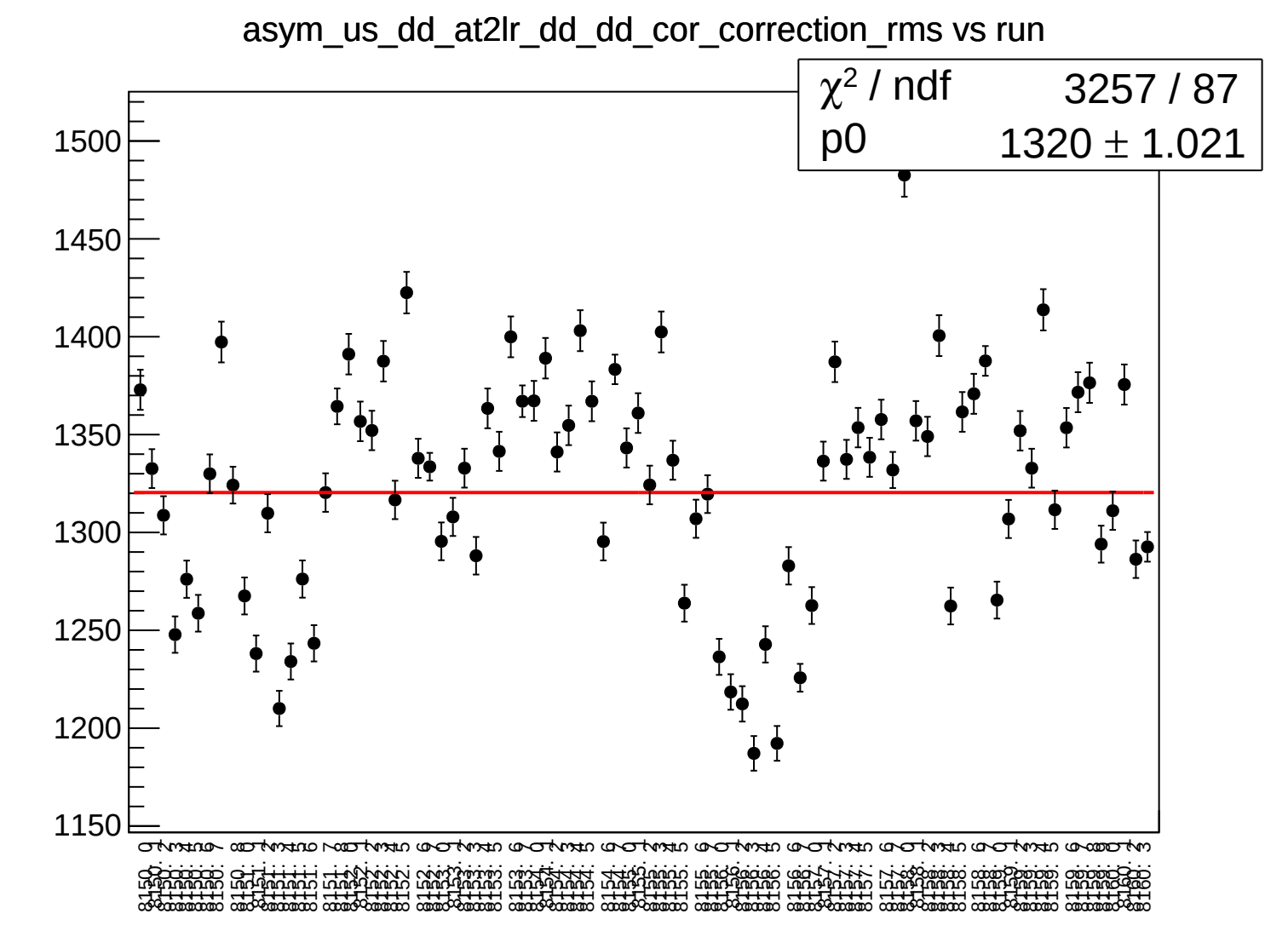

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 3259 / 87
p0 1320 ± 1.021
1500
1450
1400
1350
1300
1250
1200
1150

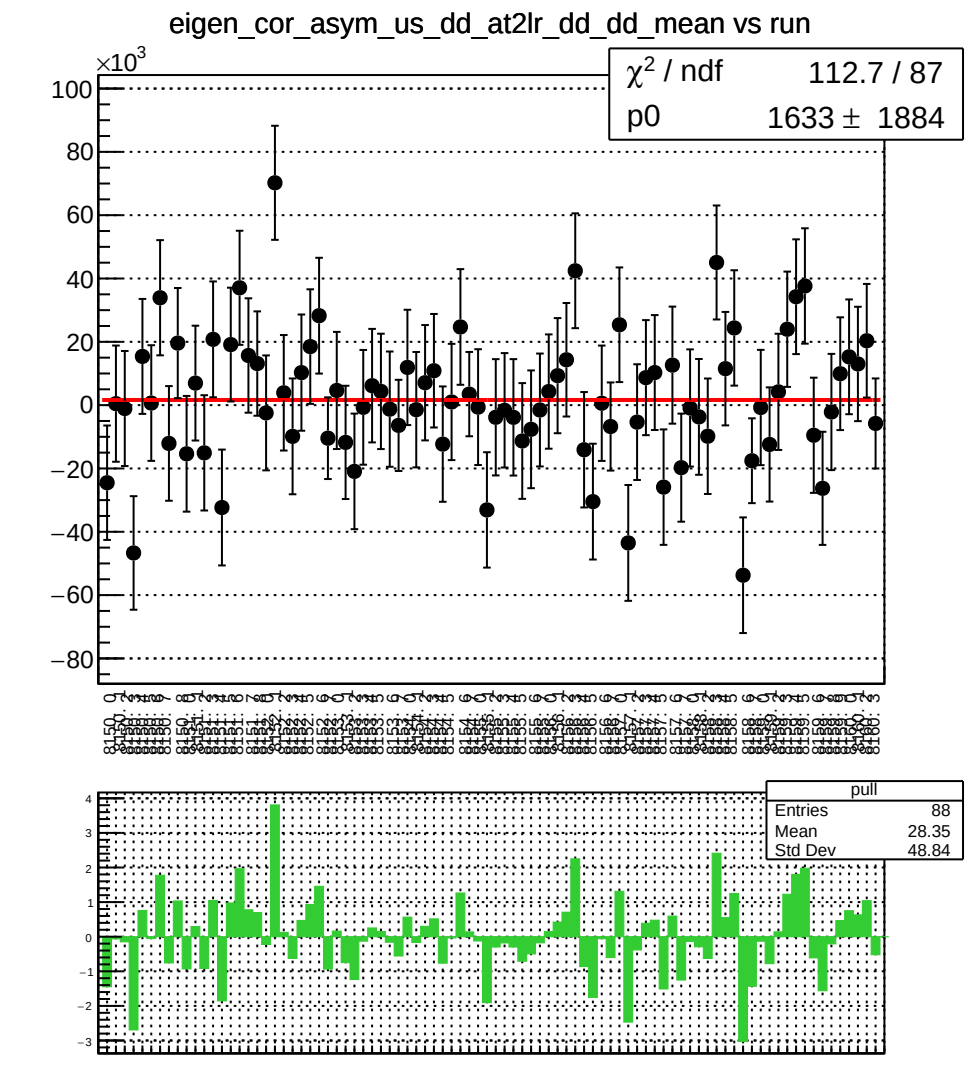

cor_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 112.7 / 87
p0 1633 ± 1884
pull
Entries 88
Mean 28.35
Std Dev 48.84

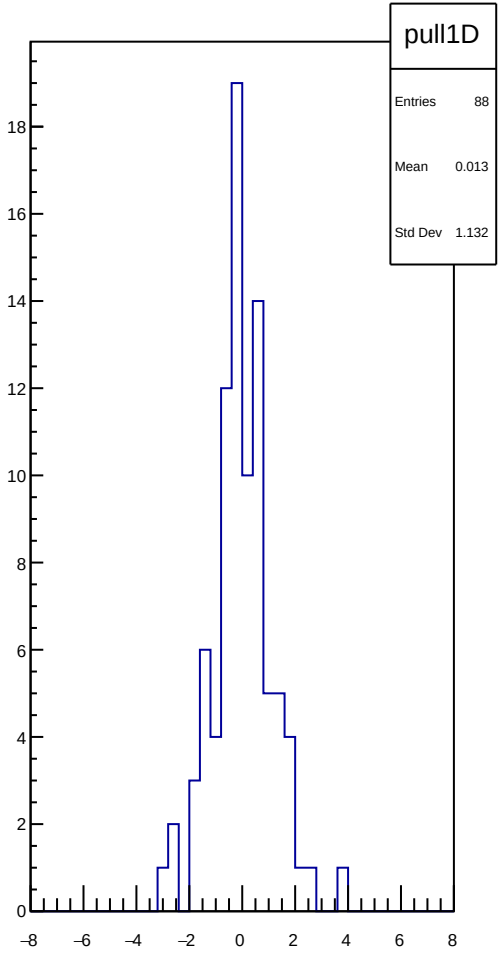

pull1D
Entries 88
Mean 0.013
Std Dev 1.132

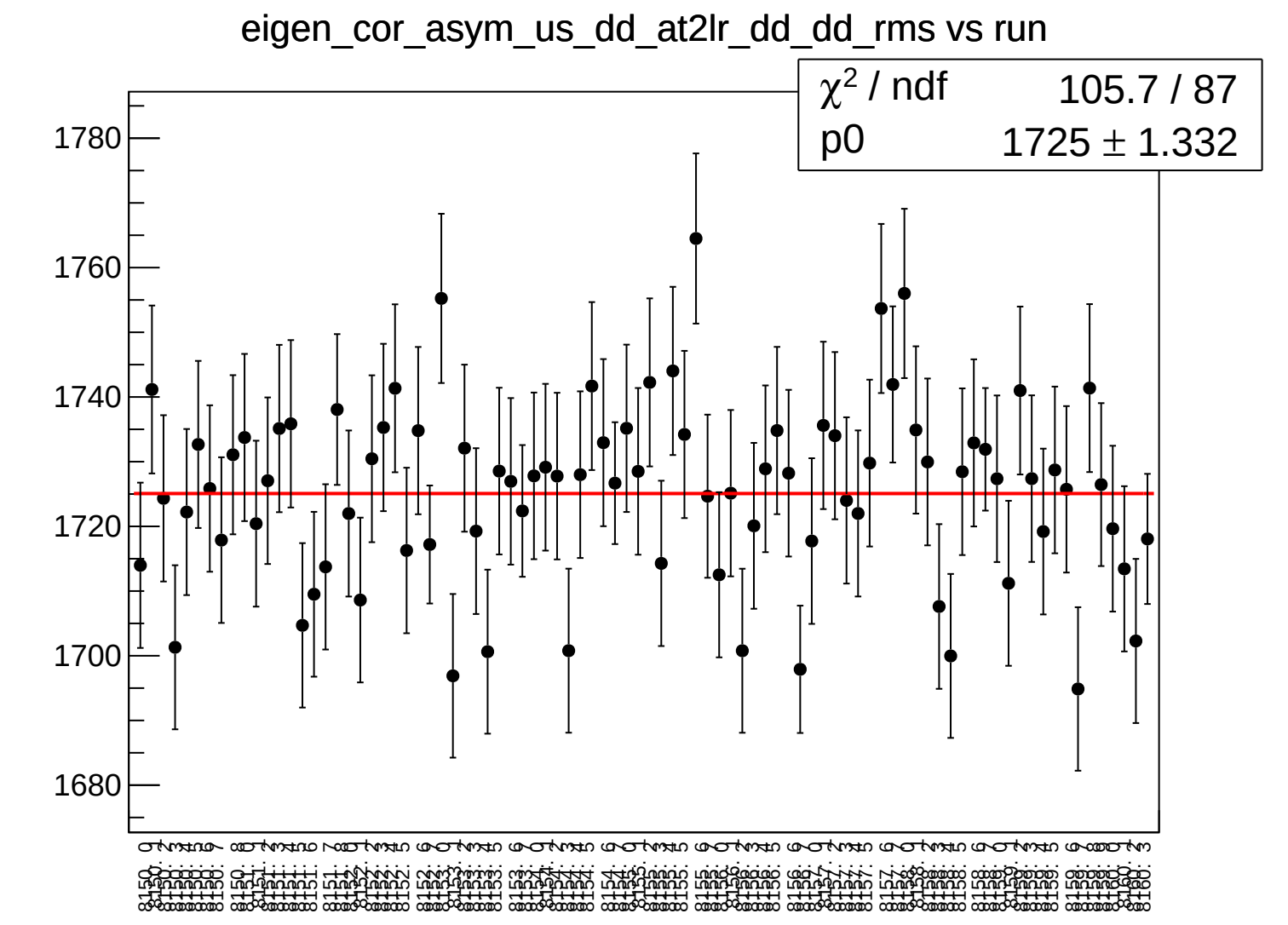

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 105.7 / 87
p0 1725 ± 1.332
1780
1760
1740
1720
1700
1680

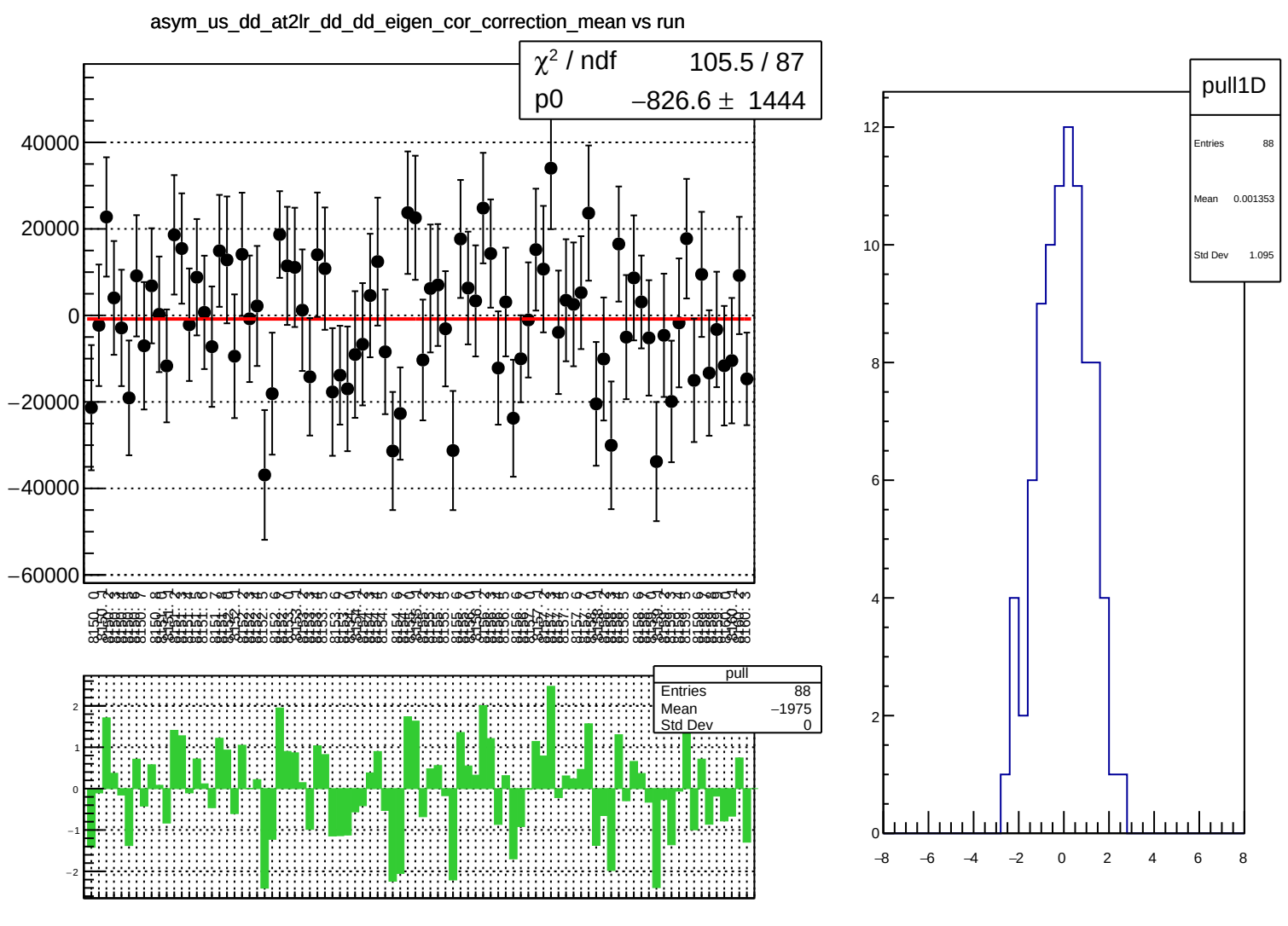

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 105.5 / 87
p0 −826.6 ± 1444
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1975
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001353
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

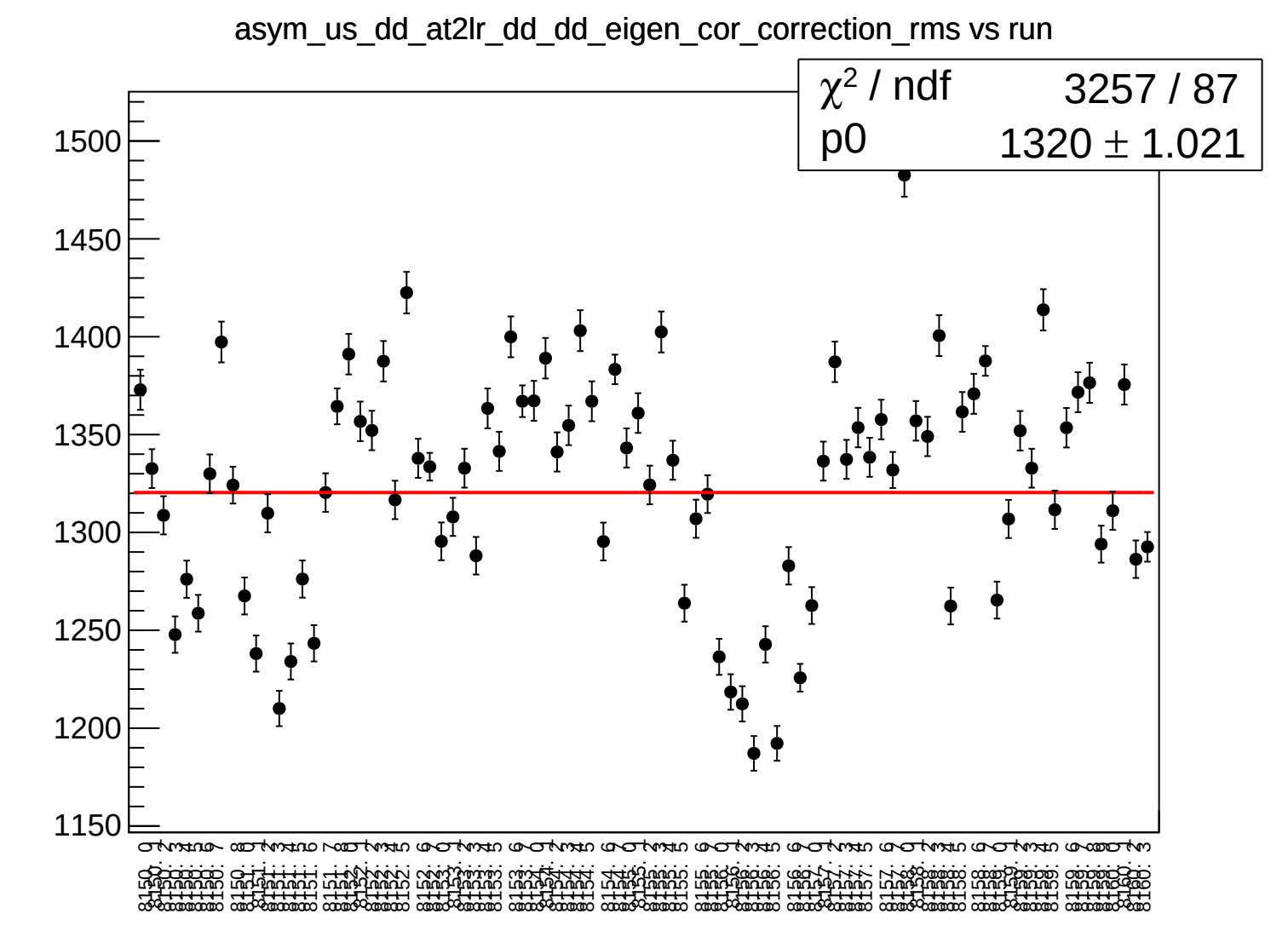

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 3257 / 87
p0 1320 ± 1.021
1500
1450
1400
1350
1300
1250
1200
1150

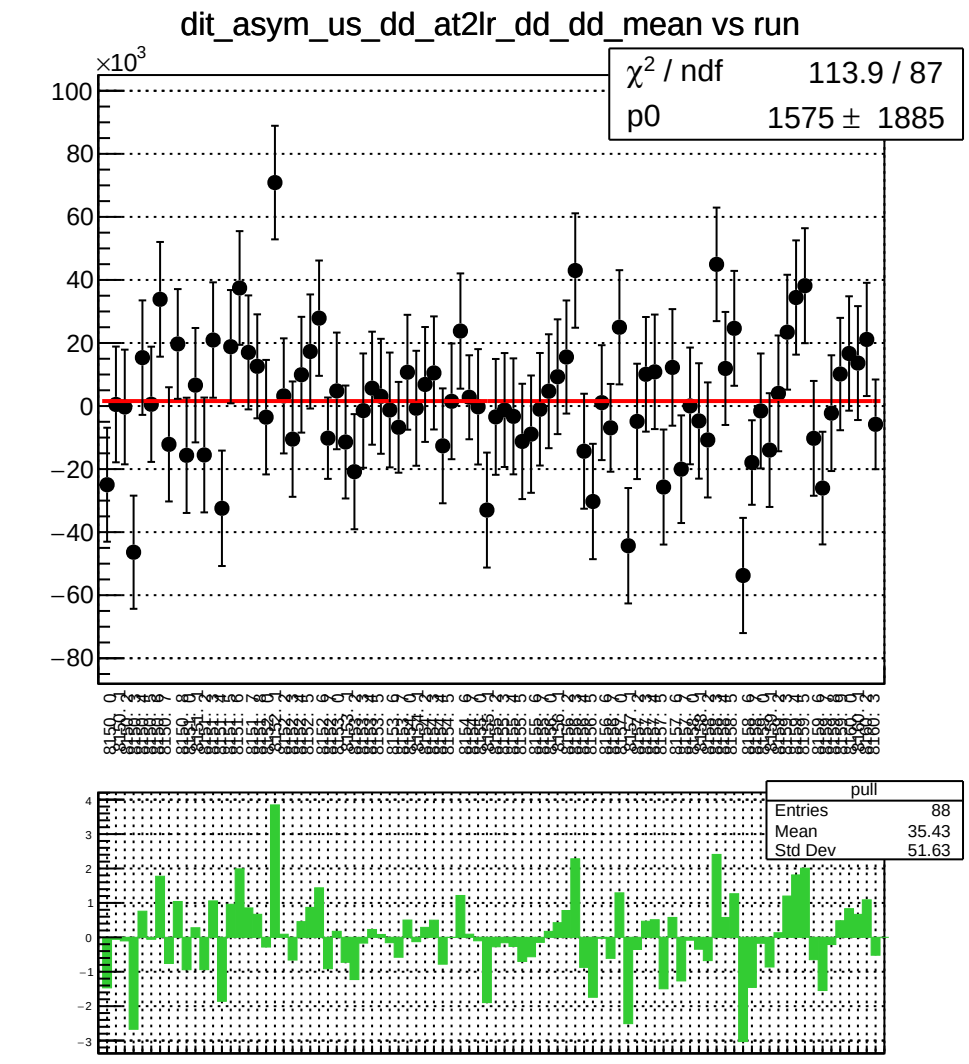

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 112.7 / 87
p0 1633 ± 1884
pull
Entries 88
Mean 28.35
Std Dev 48.84

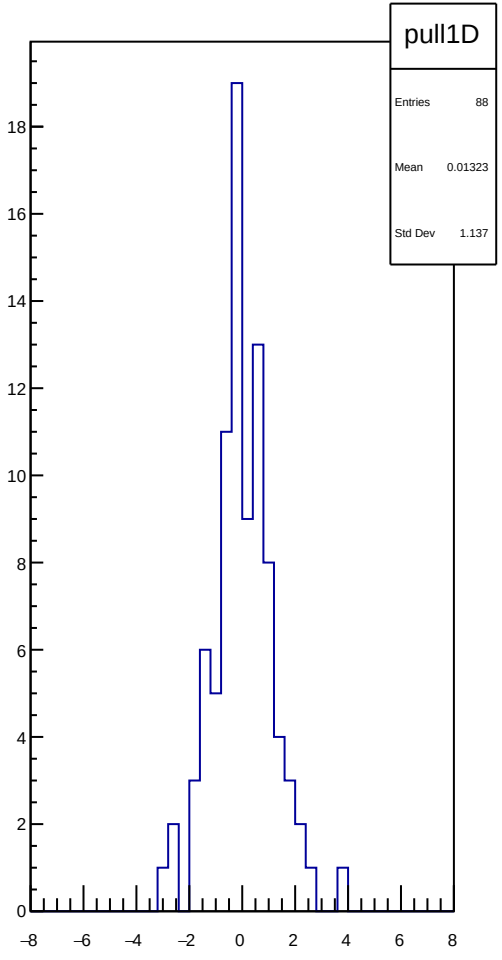

pull1D
Entries 88
Mean 0.013
Std Dev 1.132

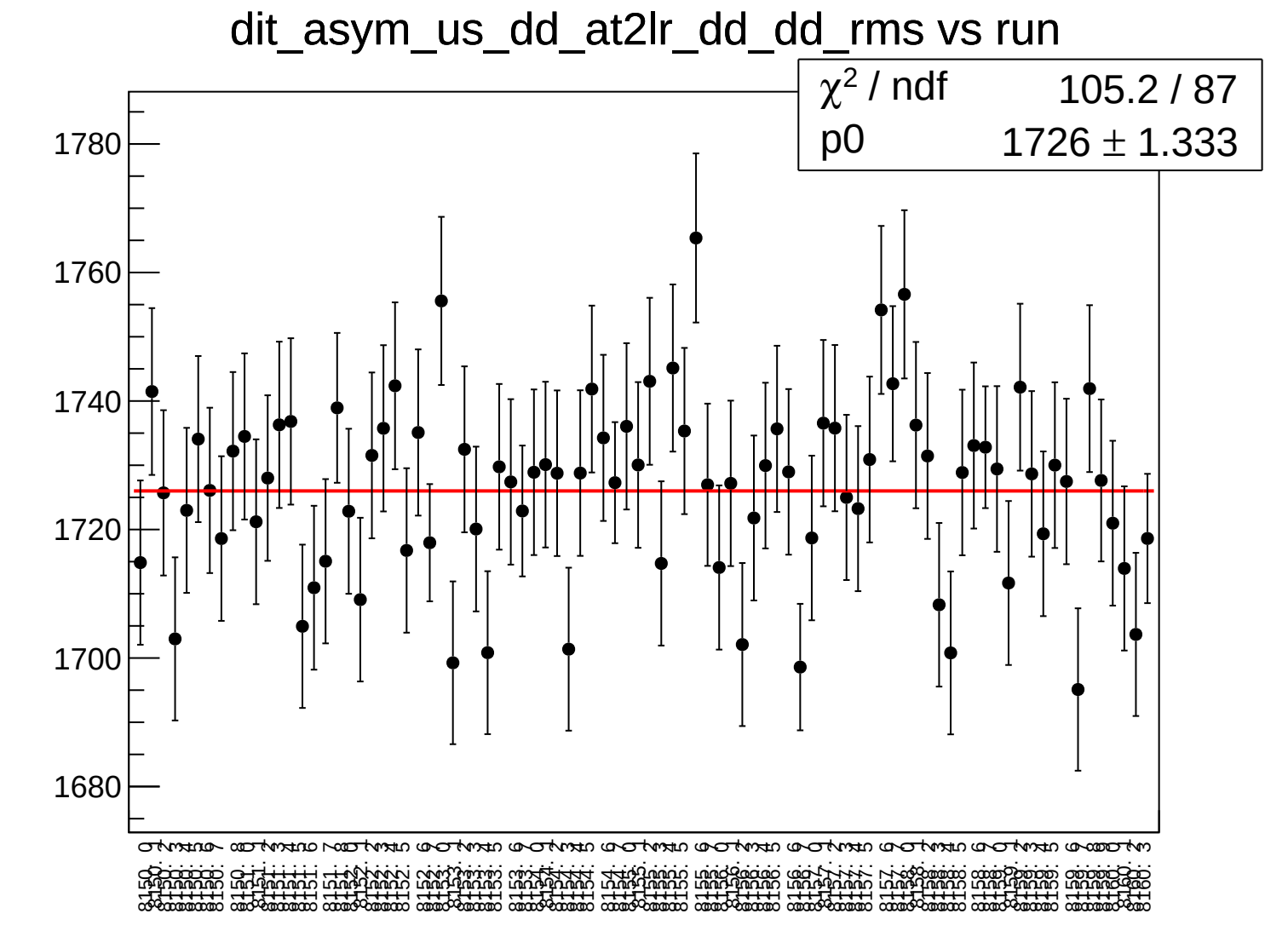

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 105.7 / 87
p0 1725 ± 1.332
1780
1760
1740
1720
1700
1680

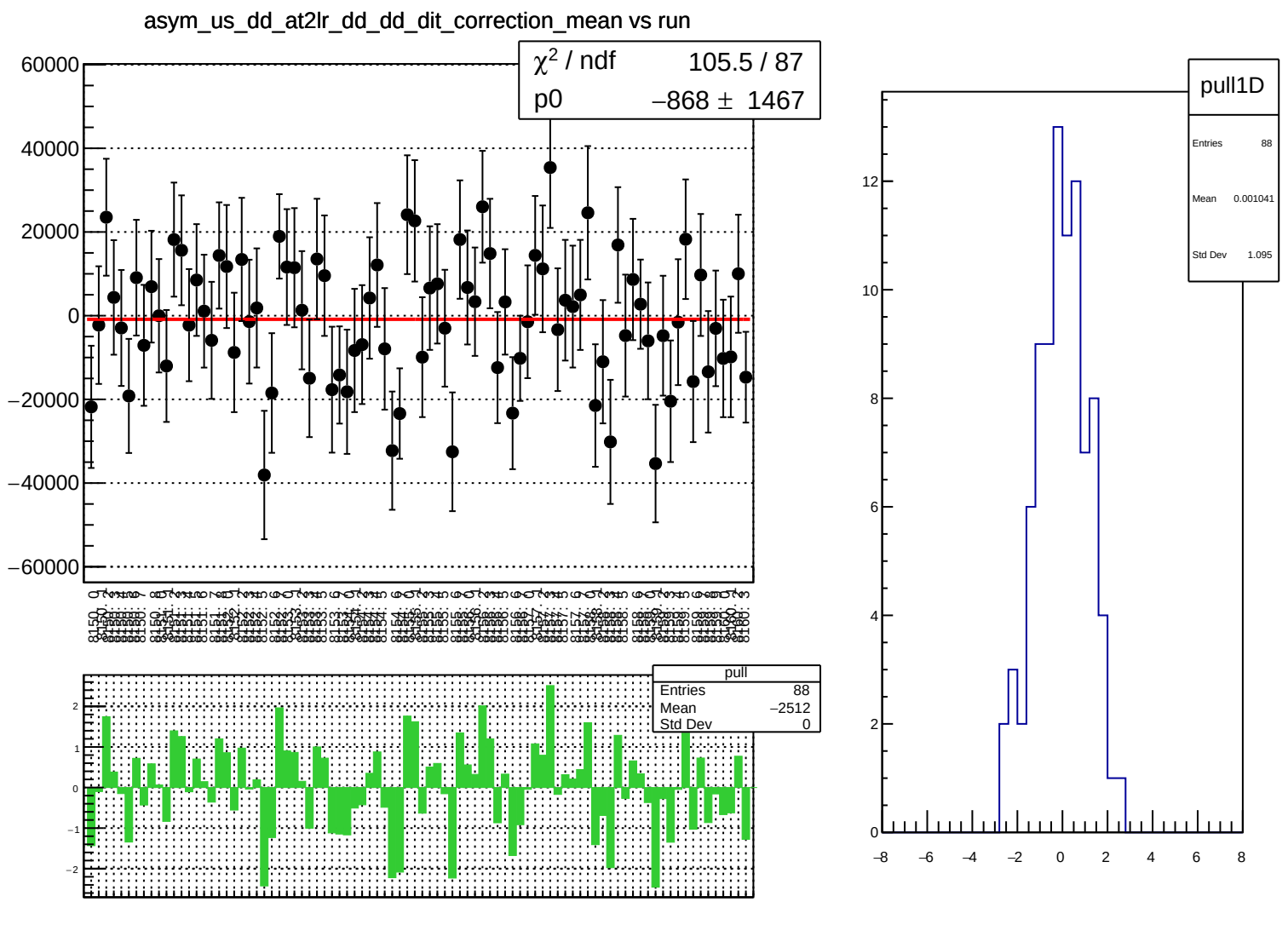

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.5 / 87
p0 −826.6 ± 1444
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1975
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001353
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

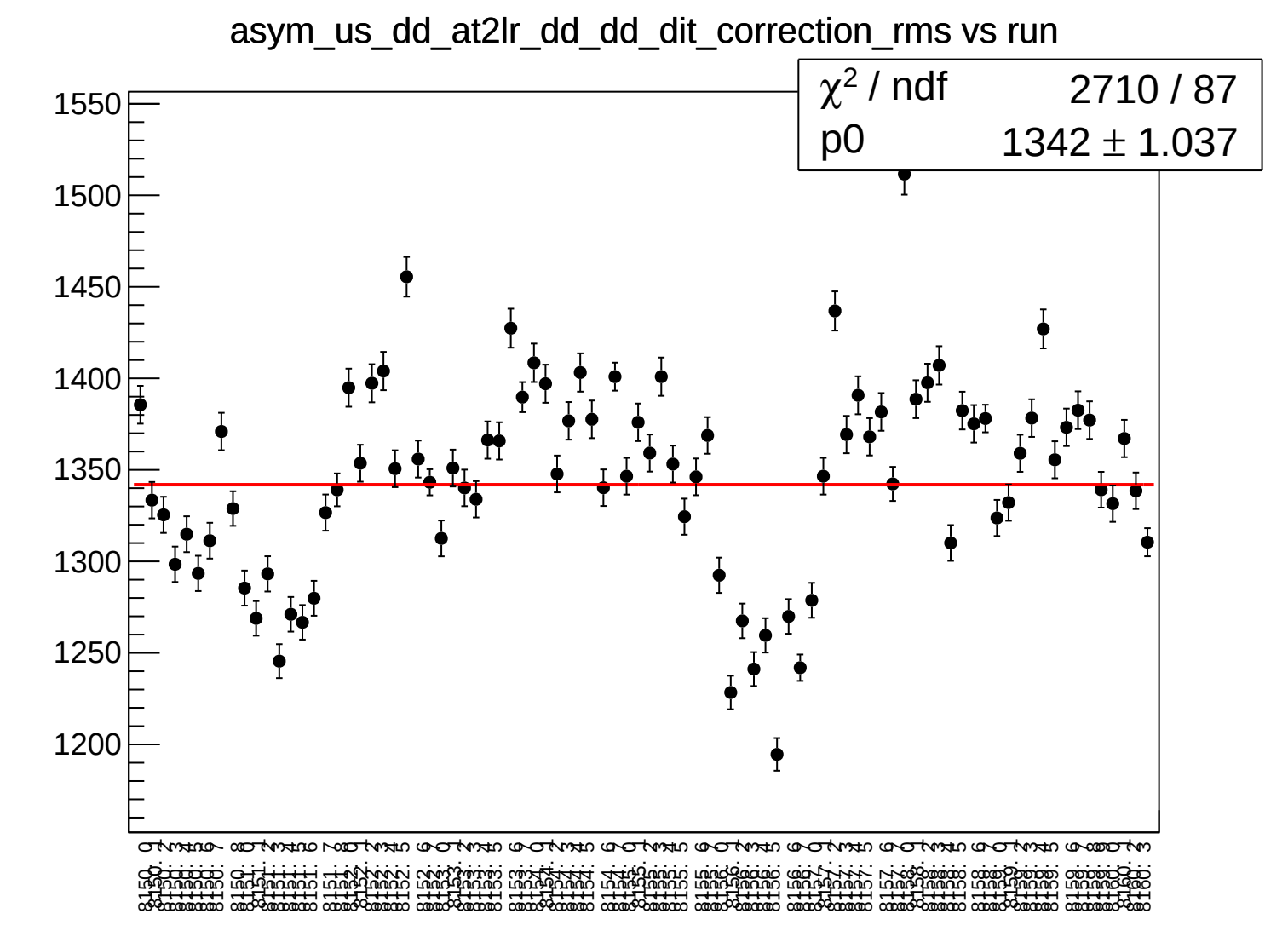

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3257 / 87
p0 1320 ± 1.021
1500
1450
1400
1350
1300
1250
1200
1150

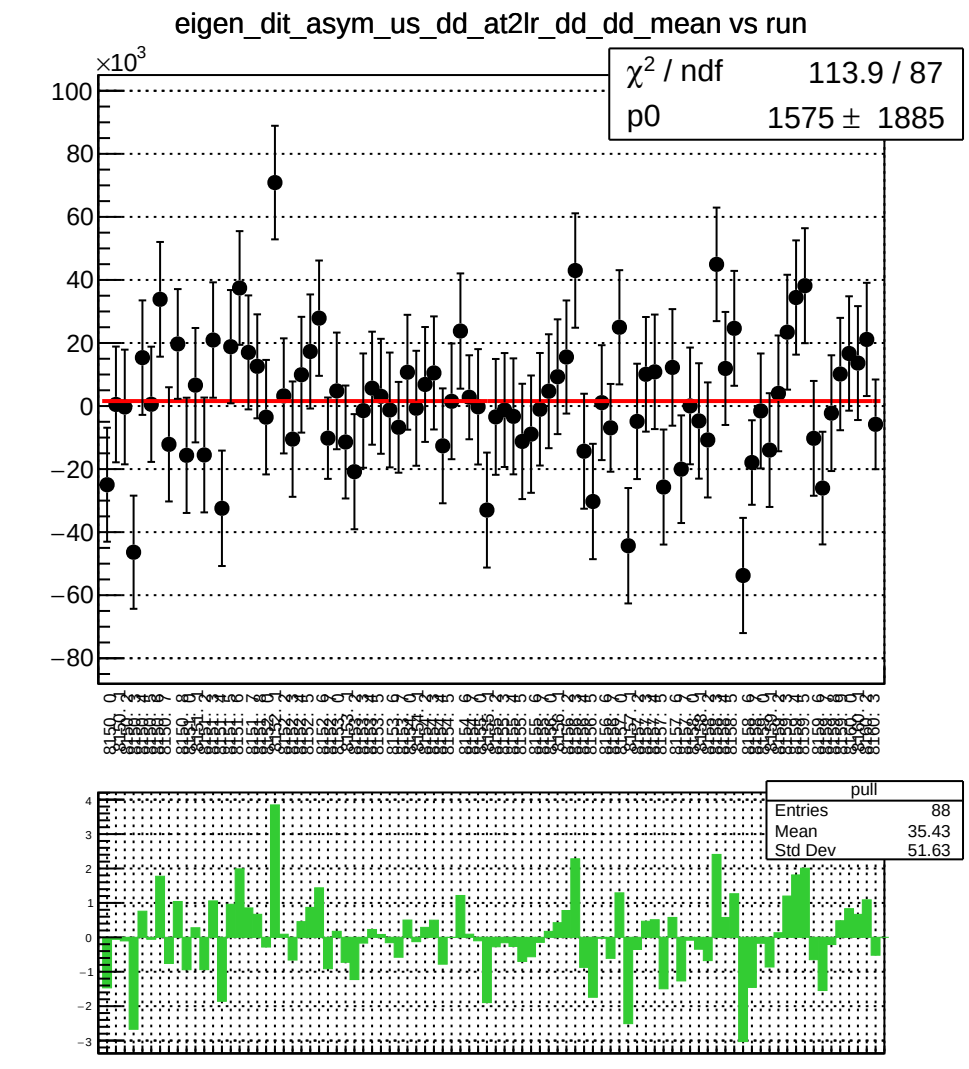

dit_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ^2 / ndf 113.9 / 87
p0 1575 ± 1885
pull
Entries 88
Mean 35.43
Std Dev 51.63

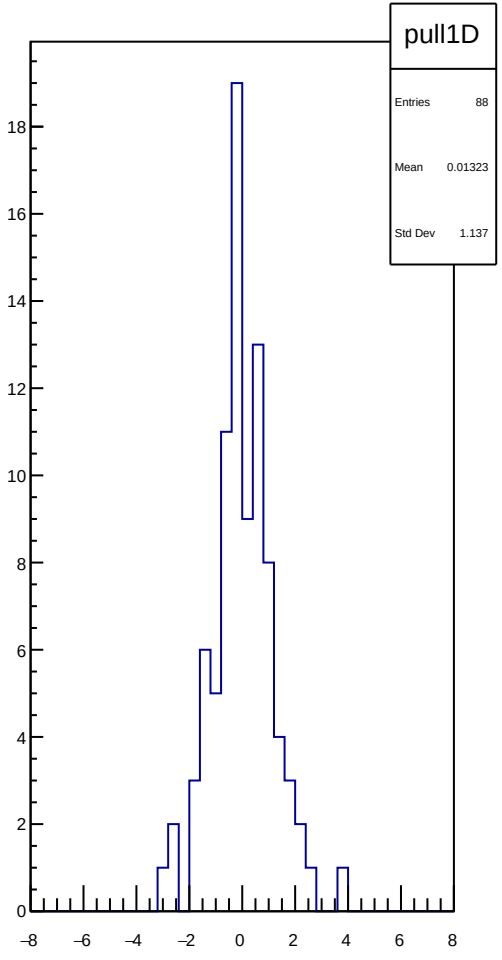

pull1D
Entries 88
Mean 0.01323
Std Dev 1.137

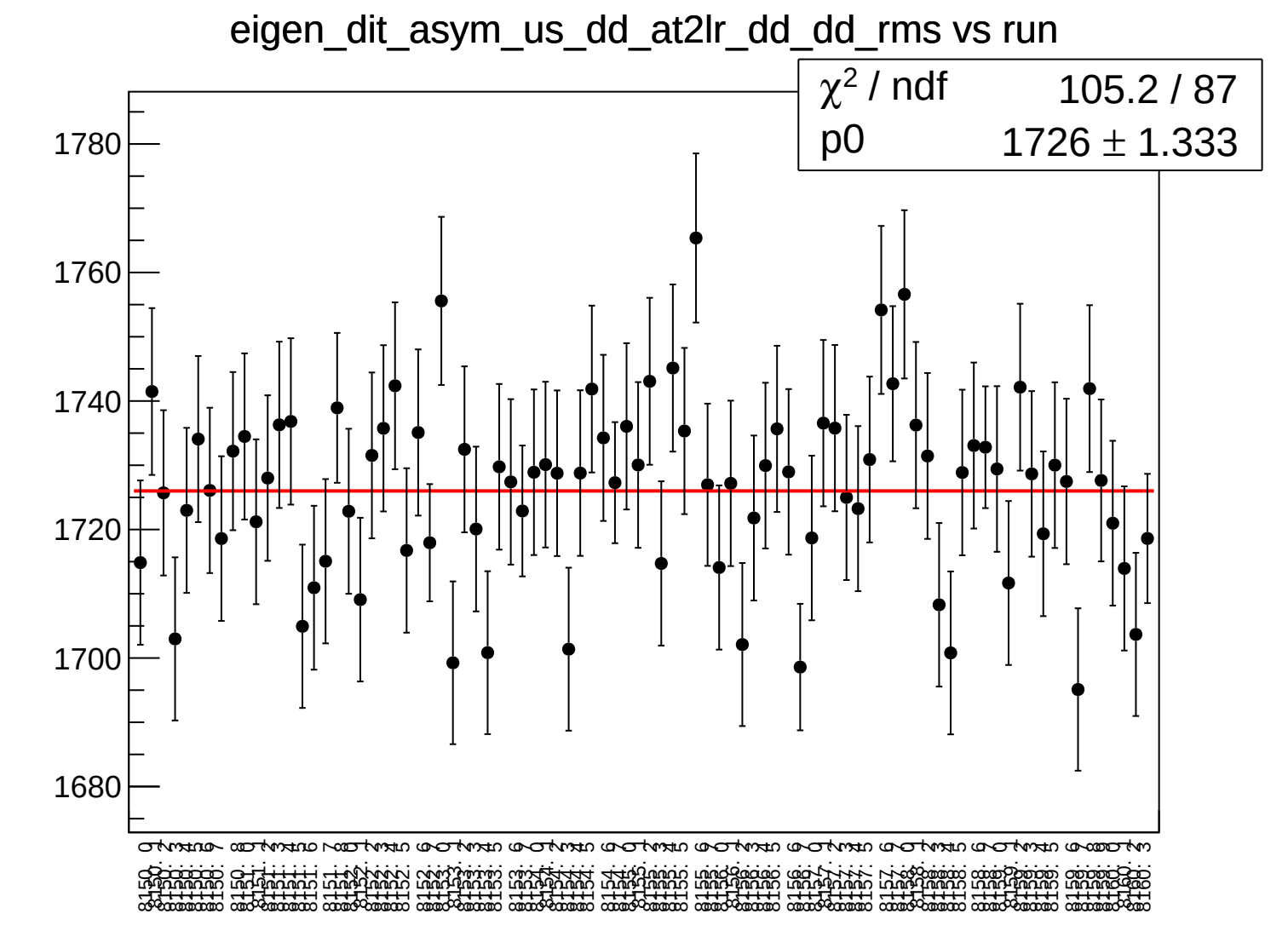

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 105.2 / 87
p0 1726 ± 1.333
1780
1760
1740
1720
1700
1680

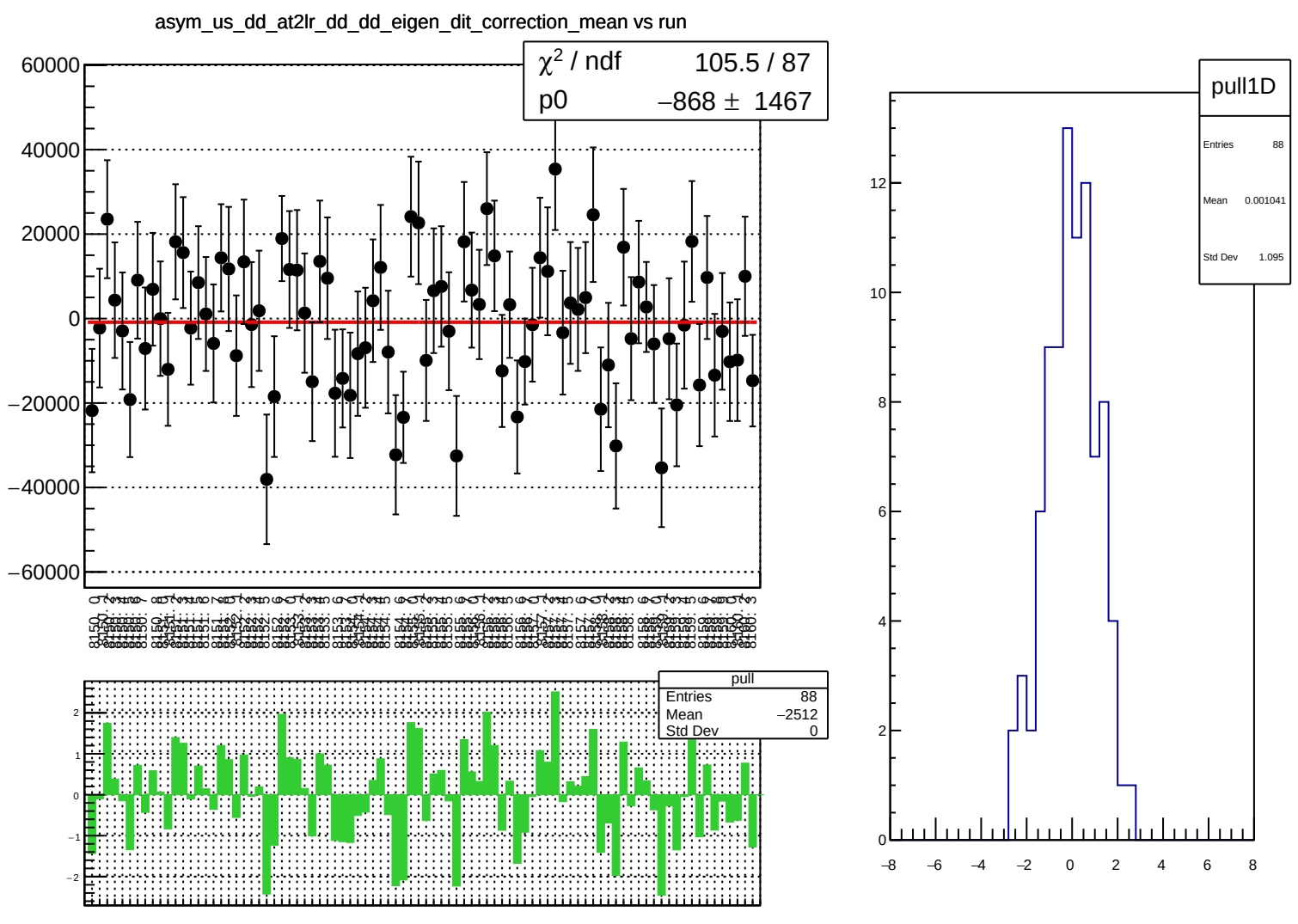

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 105.5 / 87
p0 −868 ± 1467
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −2512
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001041
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

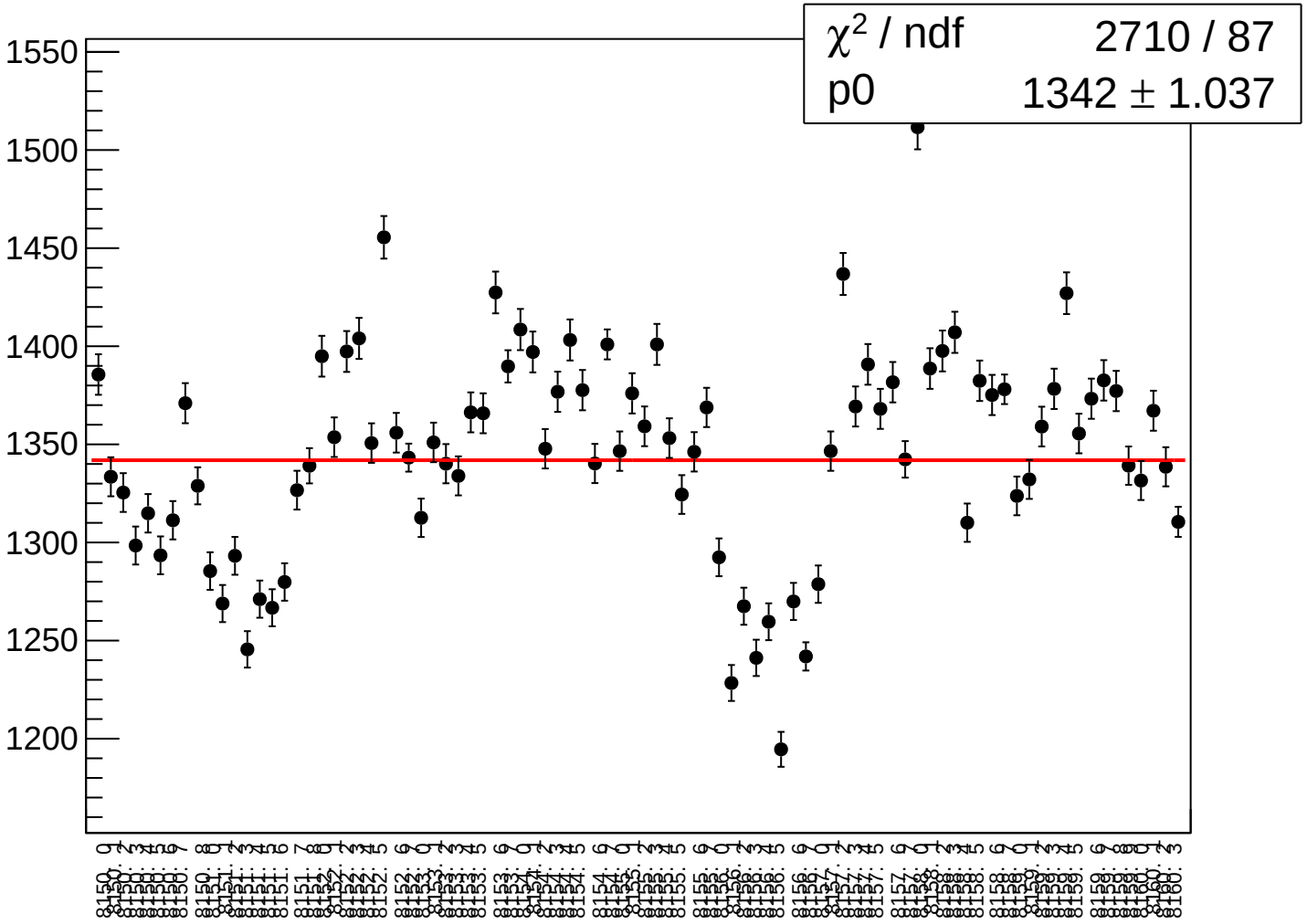

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2710 / 87
p0 1342 ± 1.037
1550
1500
1450
1400
1350
1300
1250
1200

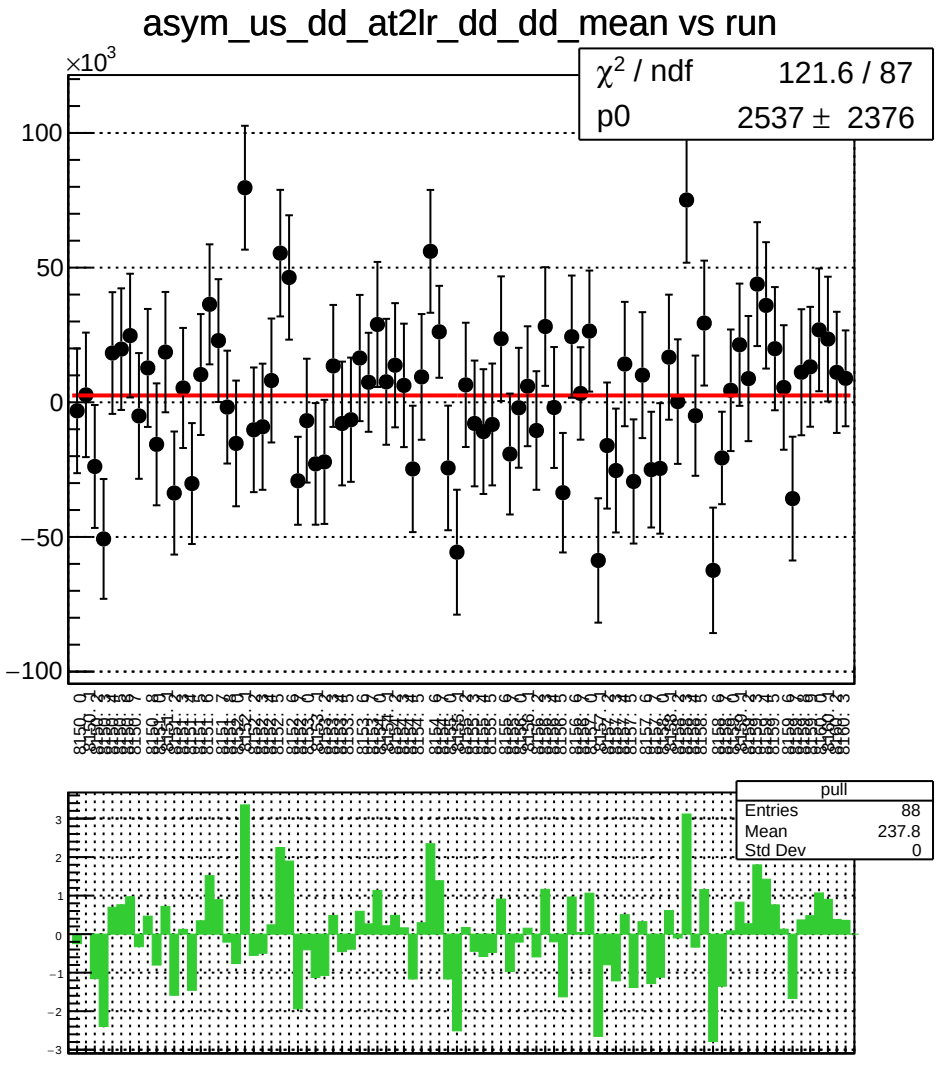

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ^2 / ndf 113.9 / 87
p0 1575 ± 1885
pull
Entries 88
Mean 35.43
Std Dev 51.63

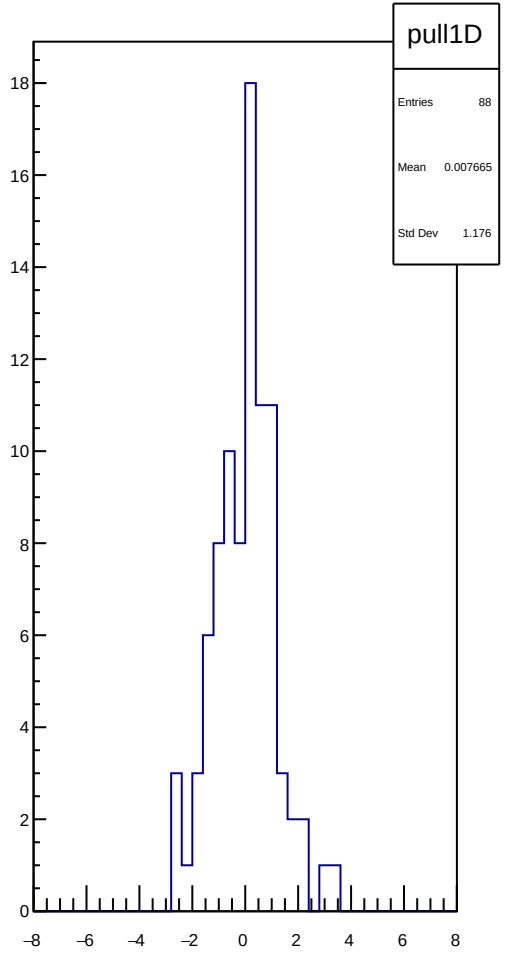

pull1D
Entries 88
Mean 0.01323
Std Dev 1.137


eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 105.2 / 87
p0 1726 ± 1.333
1780
1760
1740
1720
1700
1680


asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 105.5 / 87
p0 −868 ± 1467
pull
Entries 88
Mean −2512
Std Dev 0
pull1D
Entries 88
Mean 0.001041
Std Dev 1.095


asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2710 / 87
p0 1342 ± 1.037
1550
1500
1450
1400
1350
1300
1250
1200


asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 121.6 / 87
p0 2537 ± 2376
100
50
0
−50
−100
pull
Entries 88
Mean 237.8
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean 0.007665
Std Dev 1.176
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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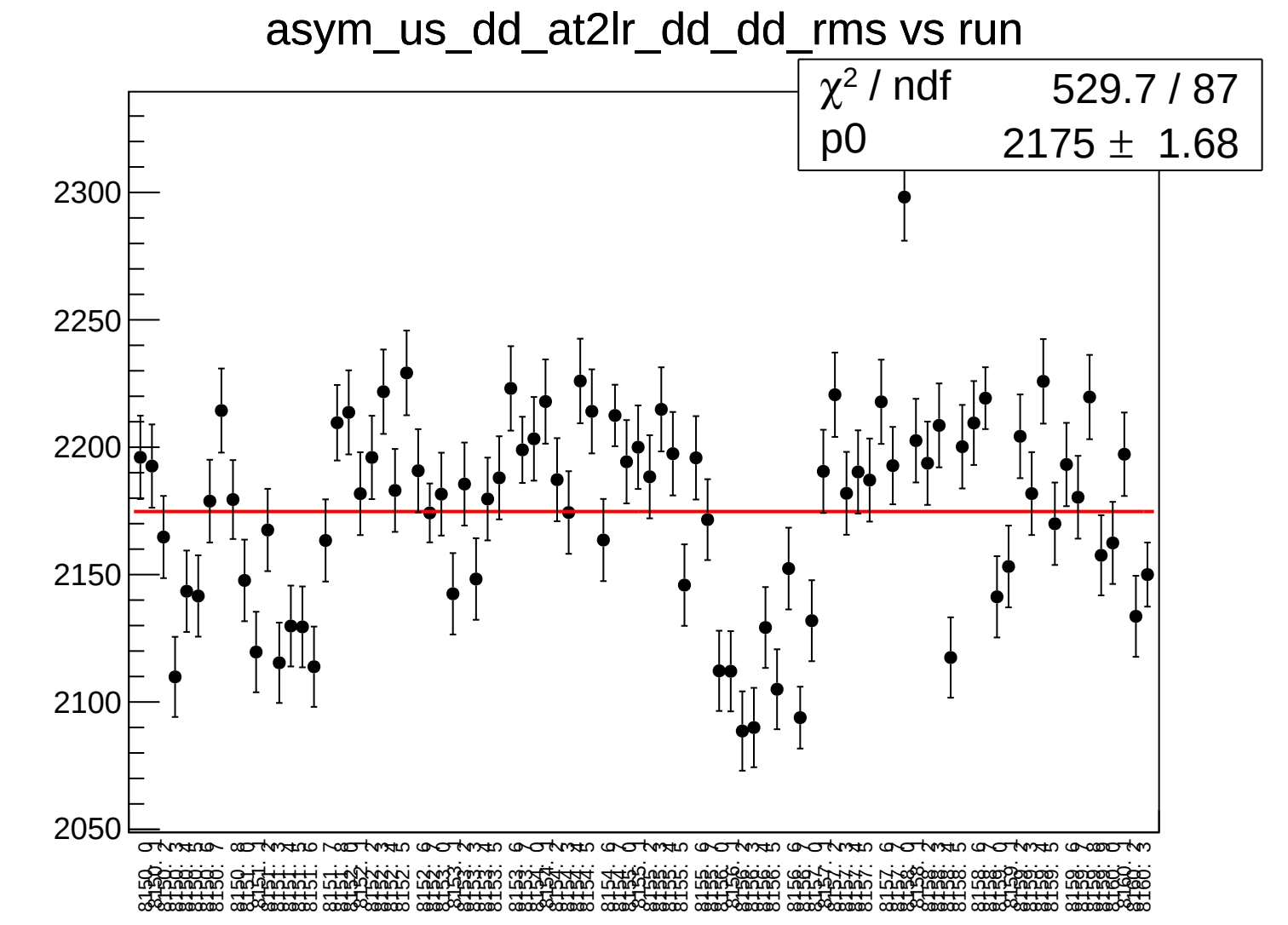
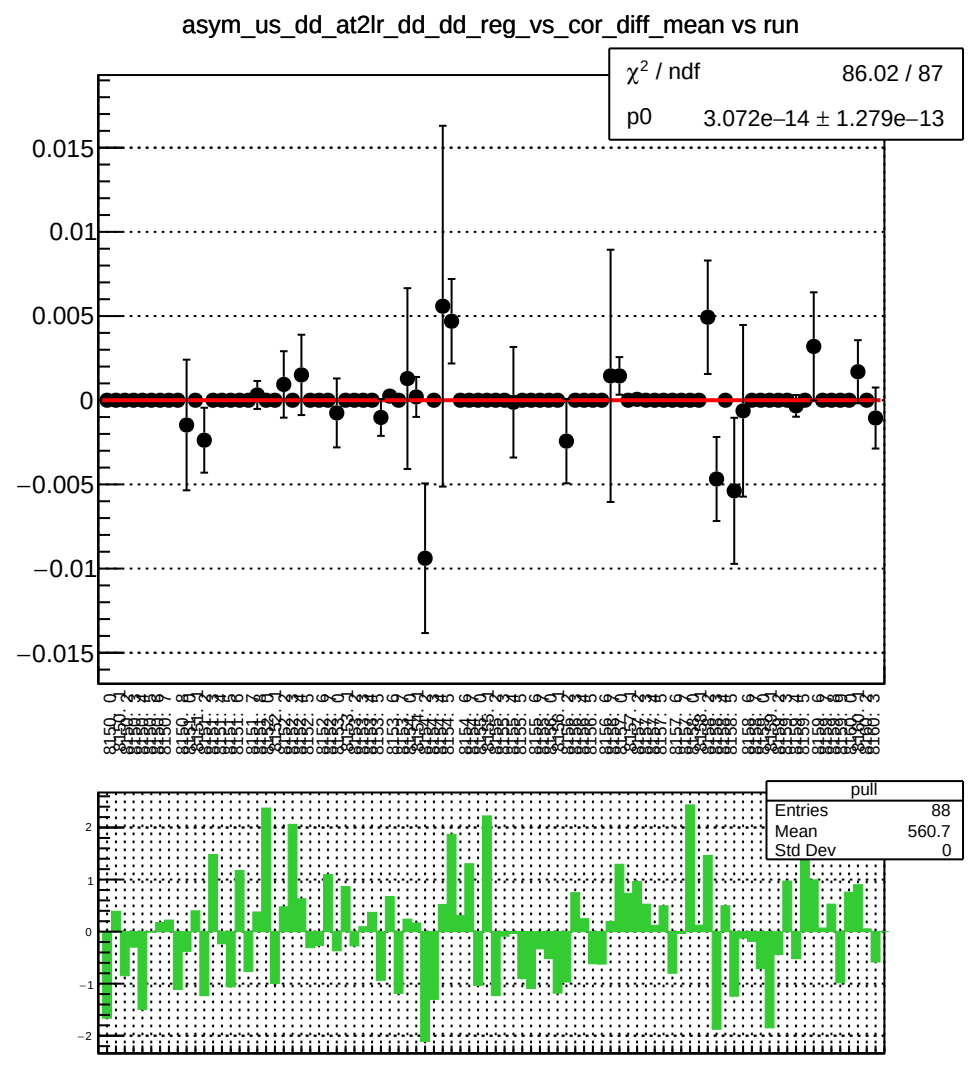
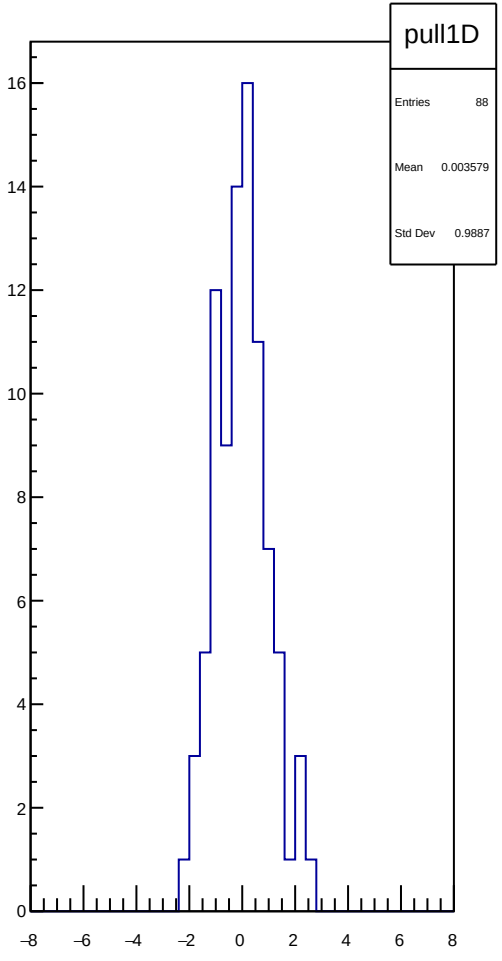
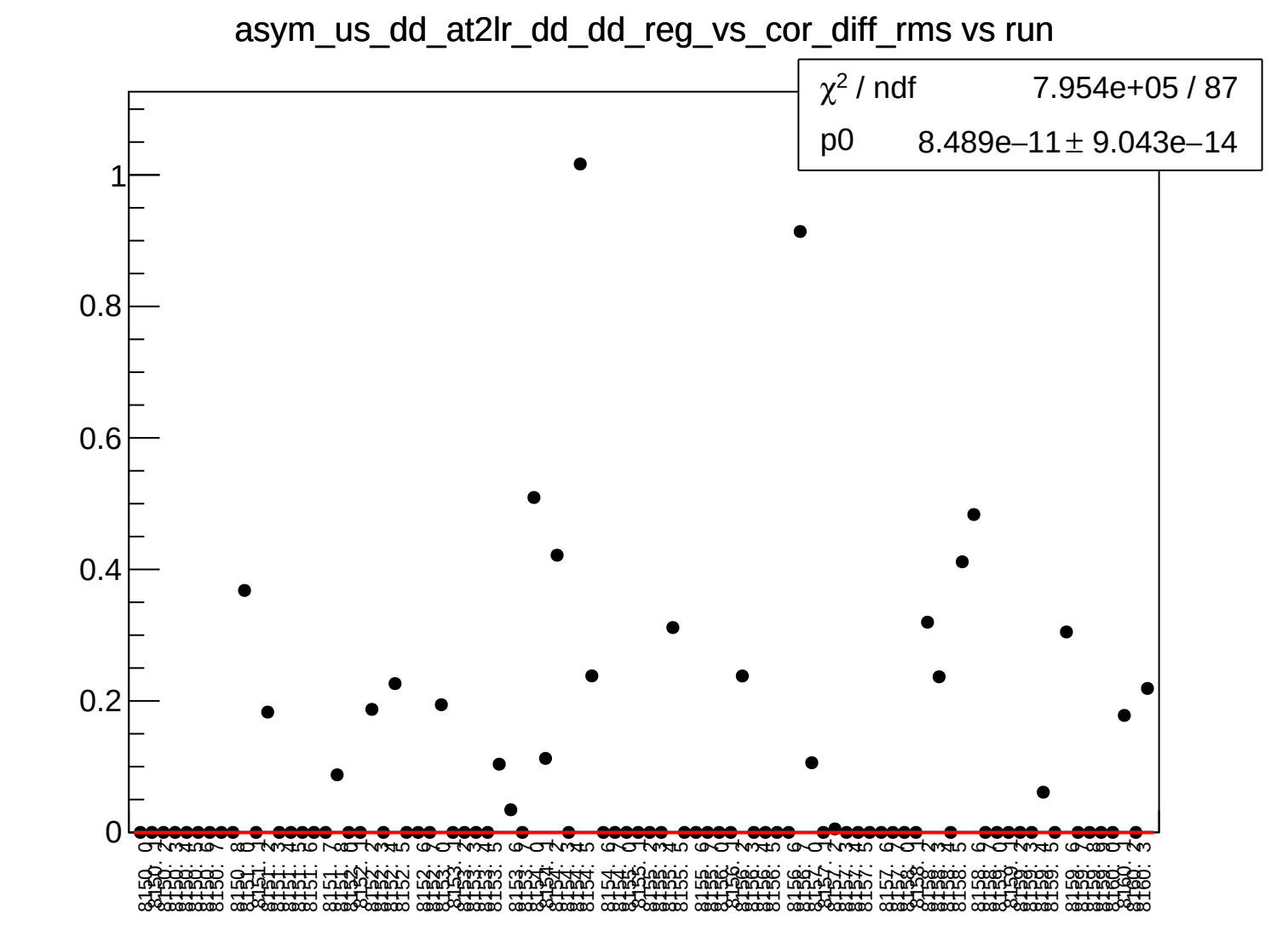
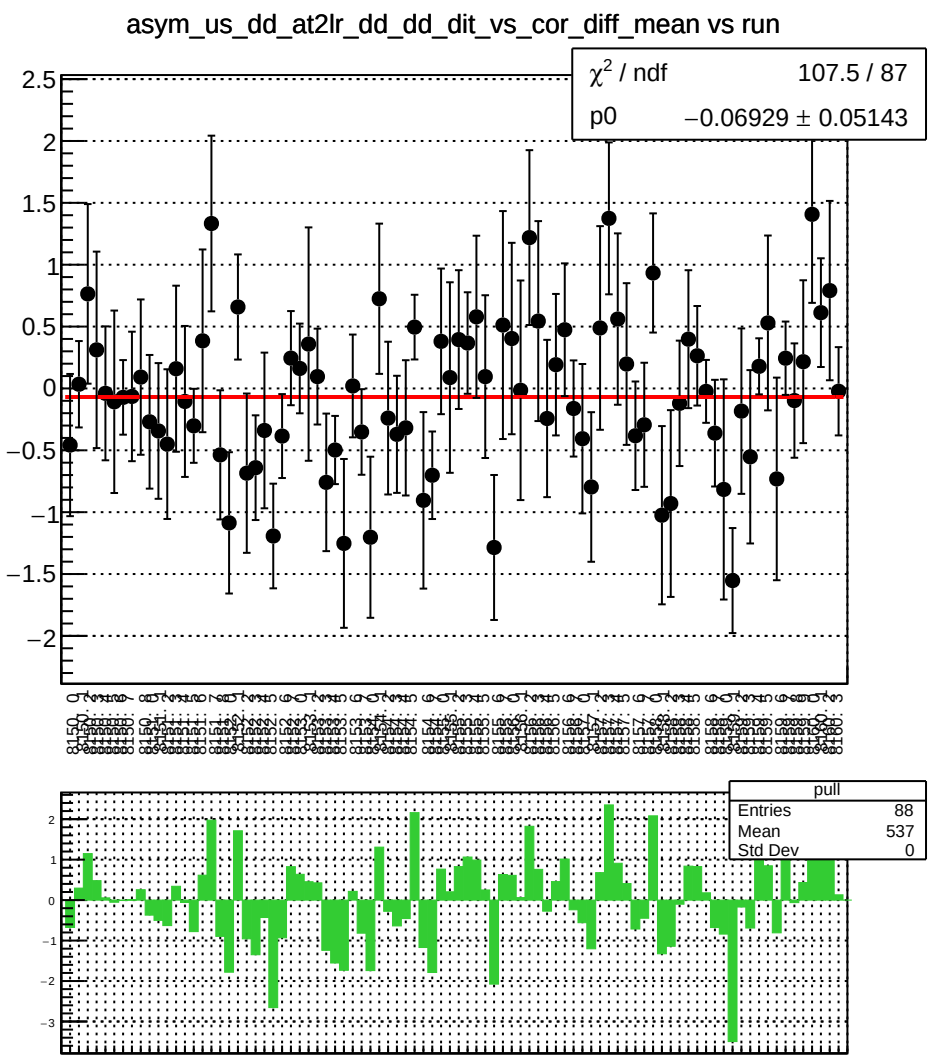
0
2
4
6
8

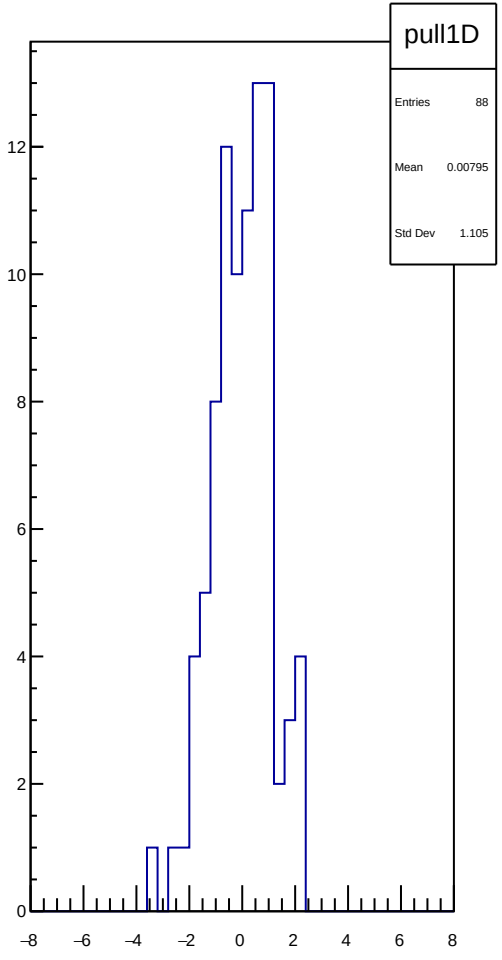

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 529.7 / 87
p0 2175 ± 1.68
2300
2250
2200
2150
2100
2050

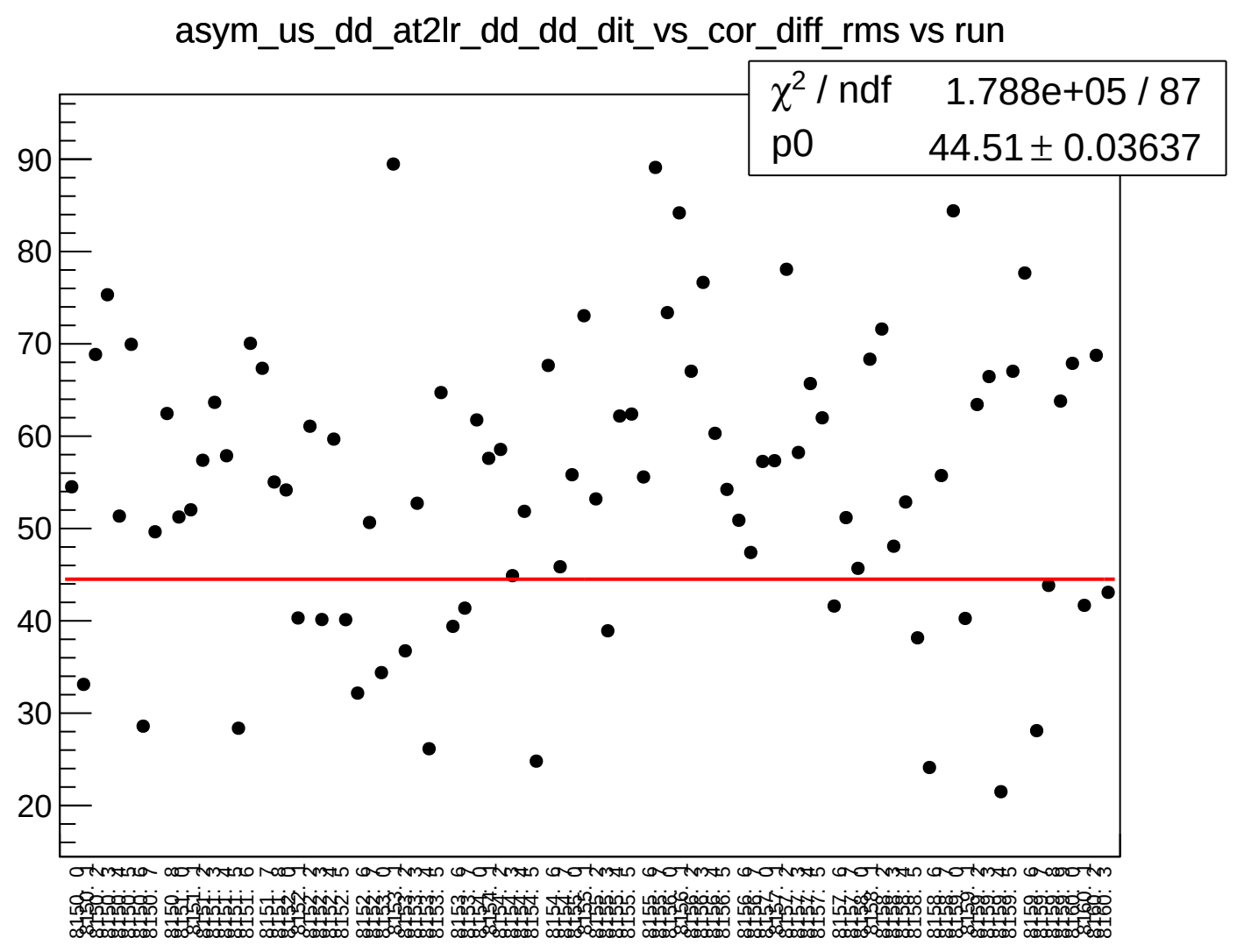

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.02 / 87
p0 3.072e−14 ± 1.279e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 560.7
Std Dev 0
2
1
0
−1
−2

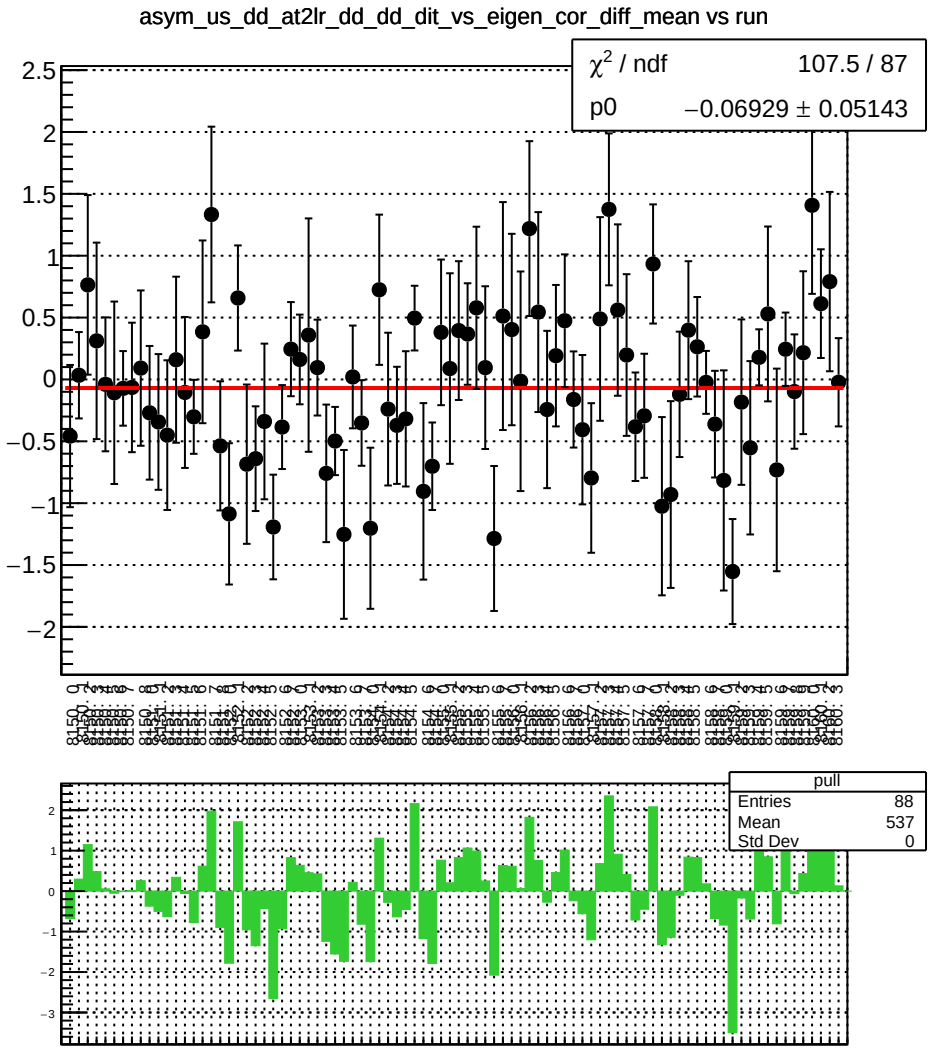

pull1D
Entries 88
Mean 0.003579
Std Dev 0.9887
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

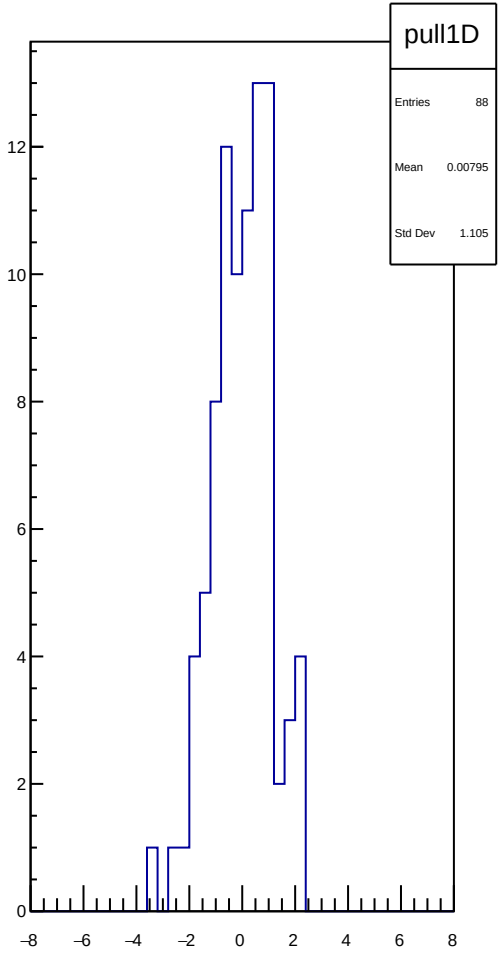

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.954e+05 / 87
p0 8.489e−11 ± 9.043e−14
1
0.8
0.6
0.4
0.2
0

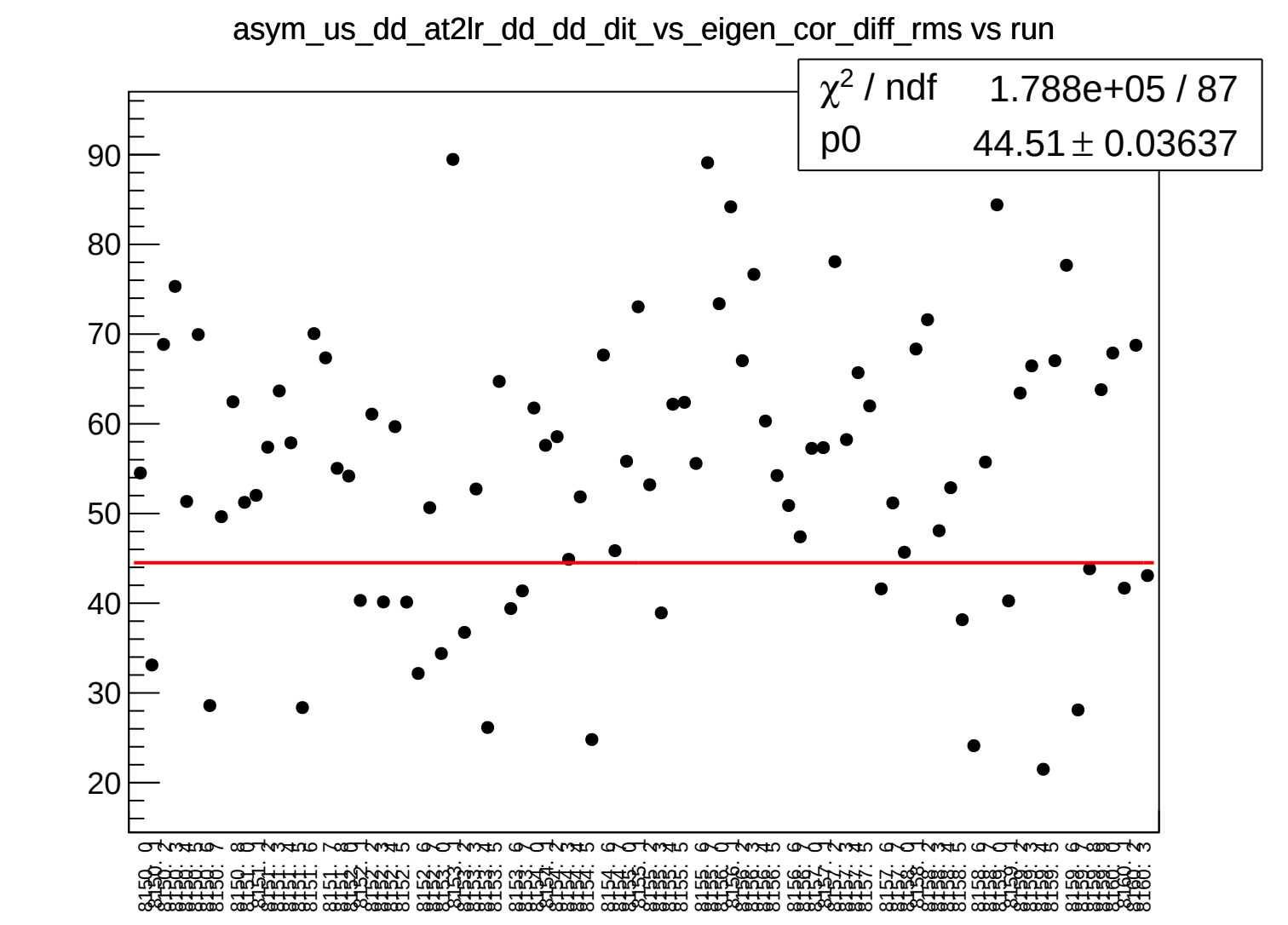

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.5 / 87
p0 −0.06929 ± 0.05143
pull
Entries 88
Mean 537
Std Dev 0

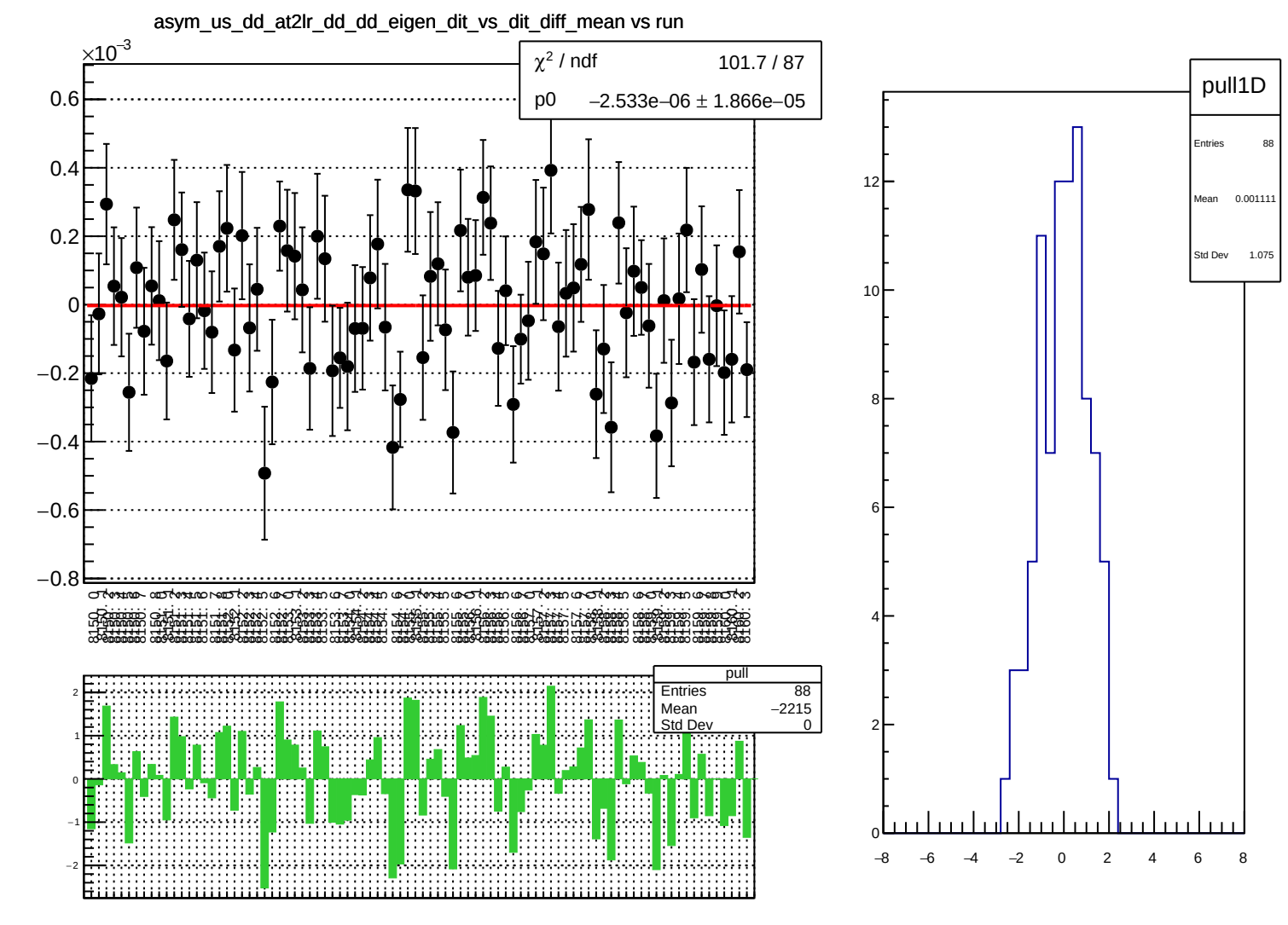

pull1D
Entries 88
Mean 0.00795
Std Dev 1.105

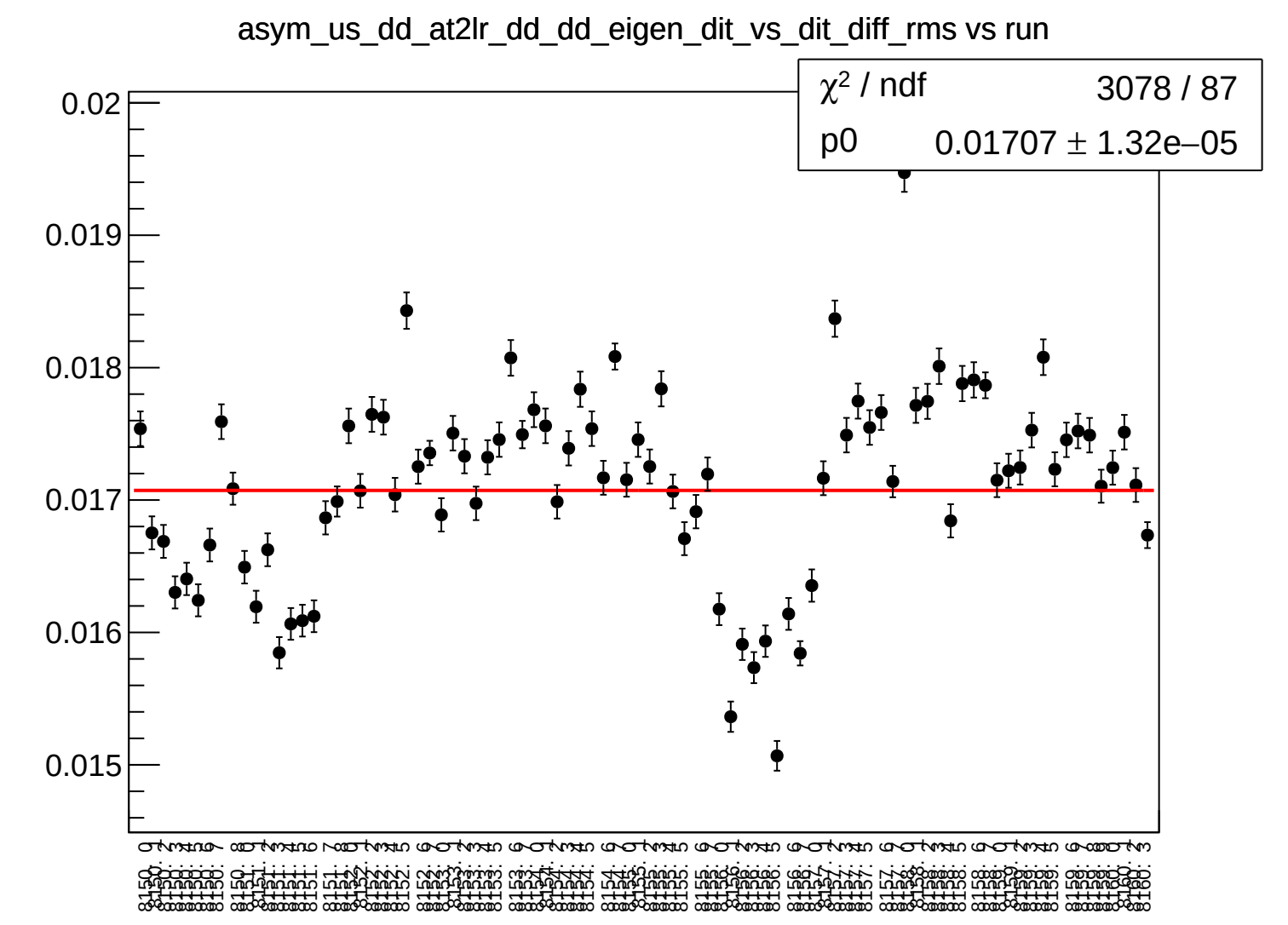

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.788e+05 / 87
p0 44.51 ± 0.03637
90
80
70
60
50
40
30
20

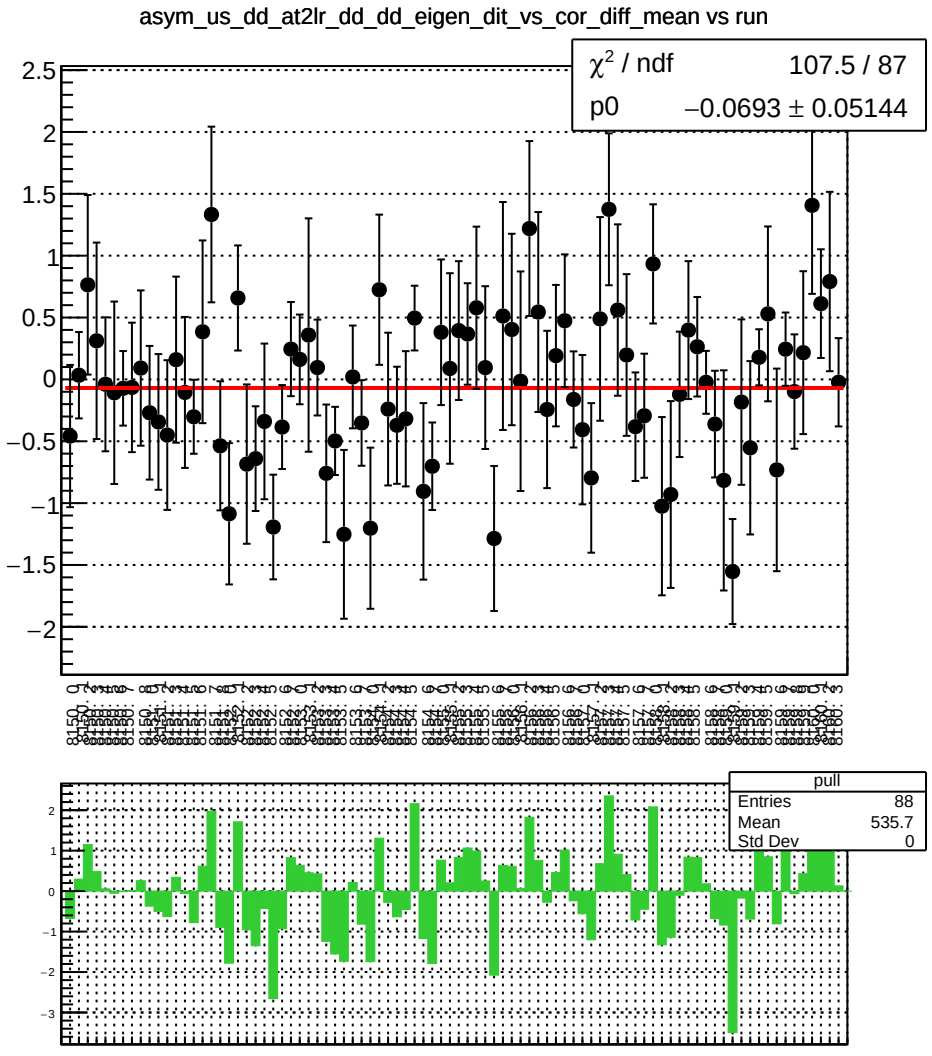

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.5 / 87
p0 −0.06929 ± 0.05143
pull
Entries 88
Mean 537
Std Dev 0

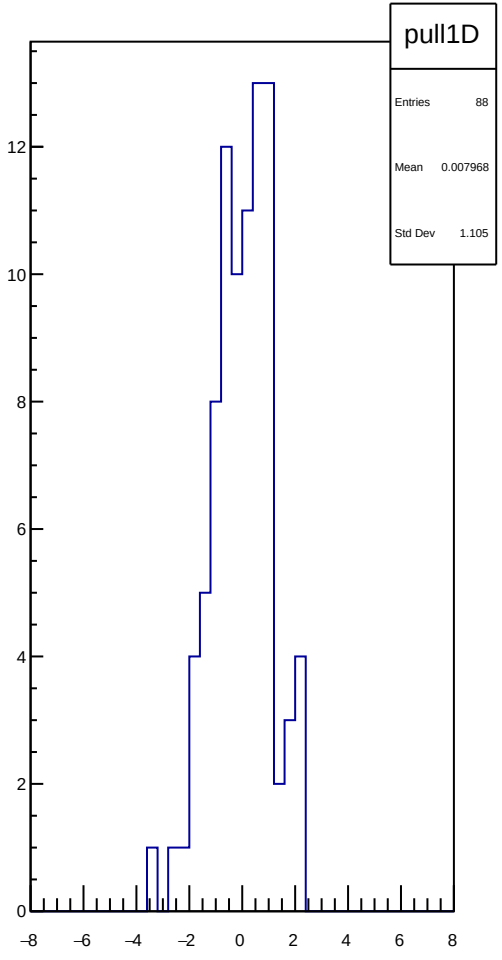

pull1D
Entries 88
Mean 0.00795
Std Dev 1.105

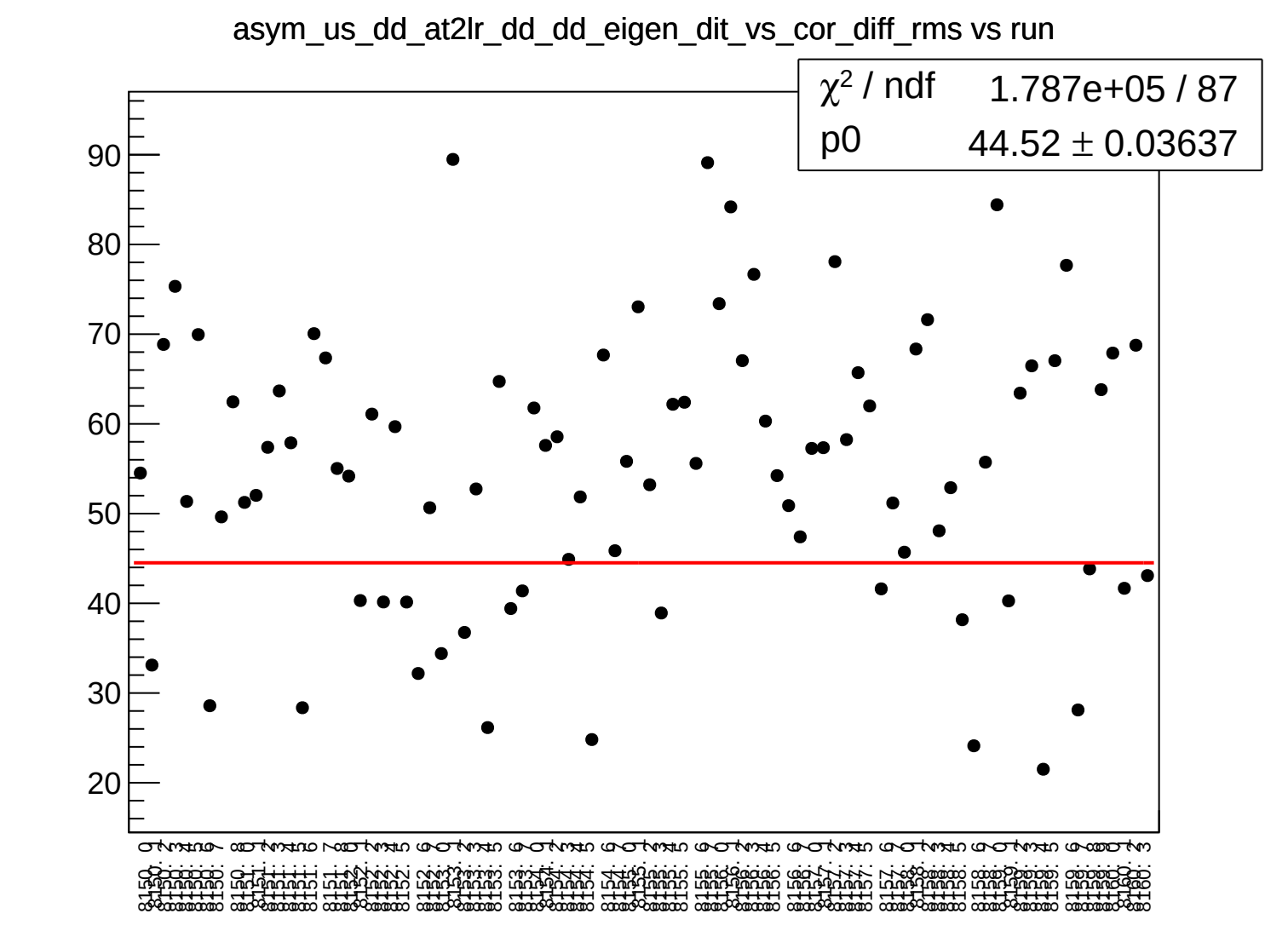

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.788e+05 / 87
p0 44.51 ± 0.03637
90
80
70
60
50
40
30
20

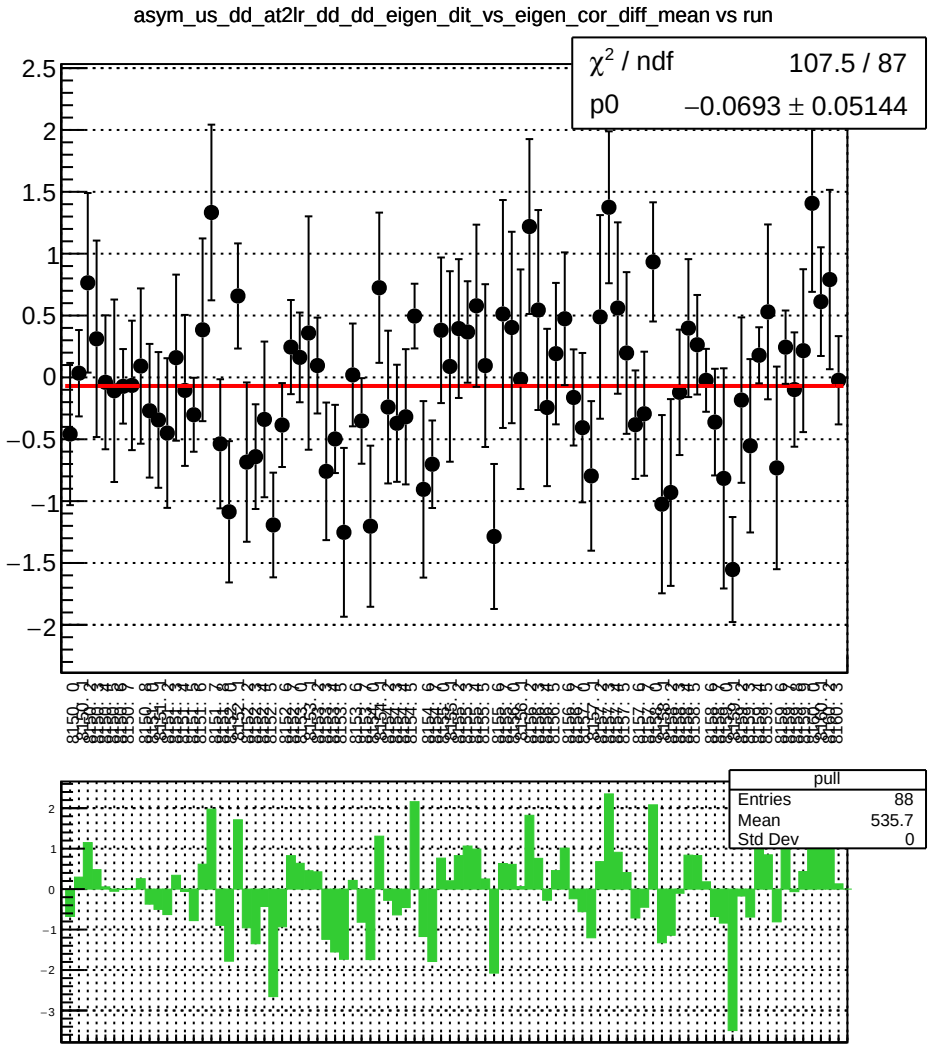

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.7 / 87
p0 −2.533e−06 ± 1.866e−05
pull
Entries 88
Mean −2215
Std Dev 0
pull1D
Entries 88
Mean 0.001111
Std Dev 1.075

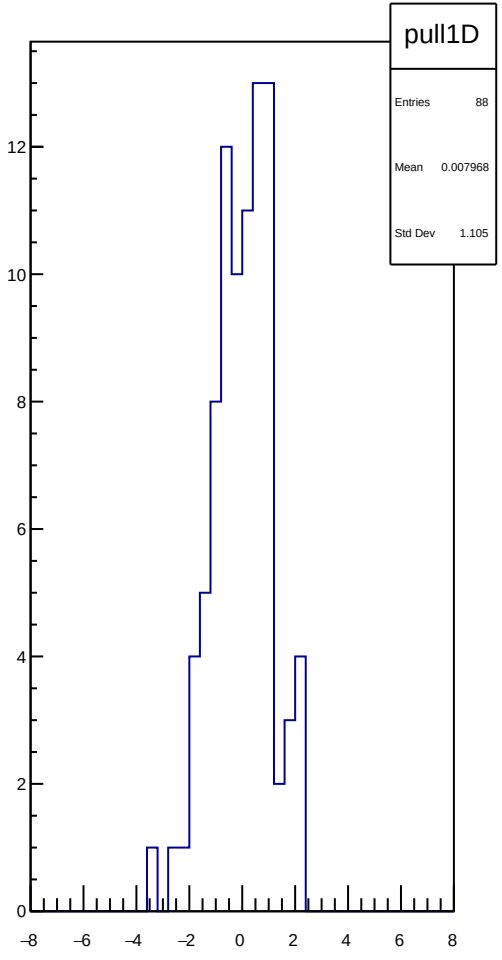

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3078 / 87
p0 0.01707 ± 1.32e−05
0.02
0.019
0.018
0.017
0.016
0.015

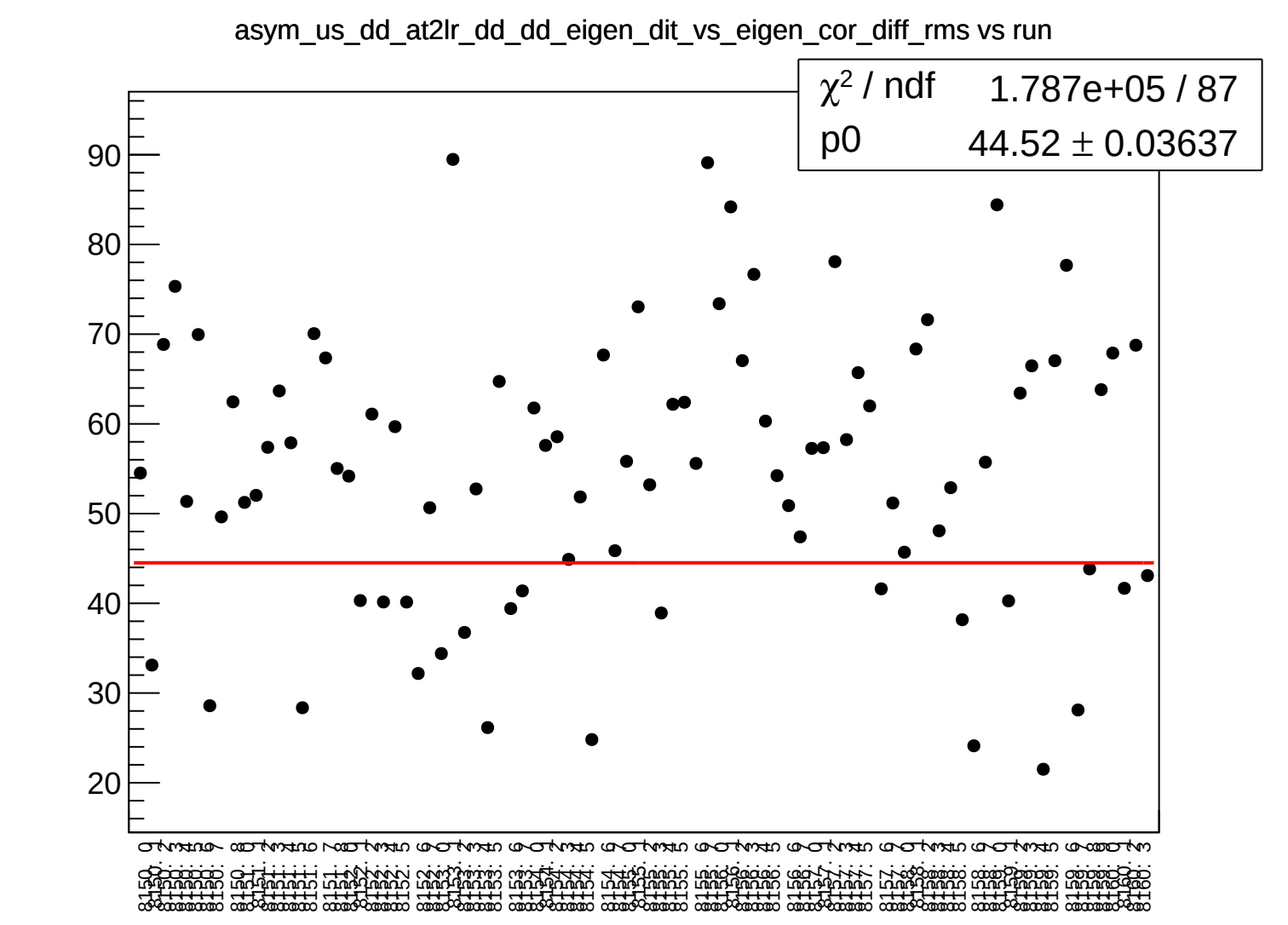

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.5 / 87
p0 −0.0693 ± 0.05144
pull
Entries 88
Mean 535.7
Std Dev 0

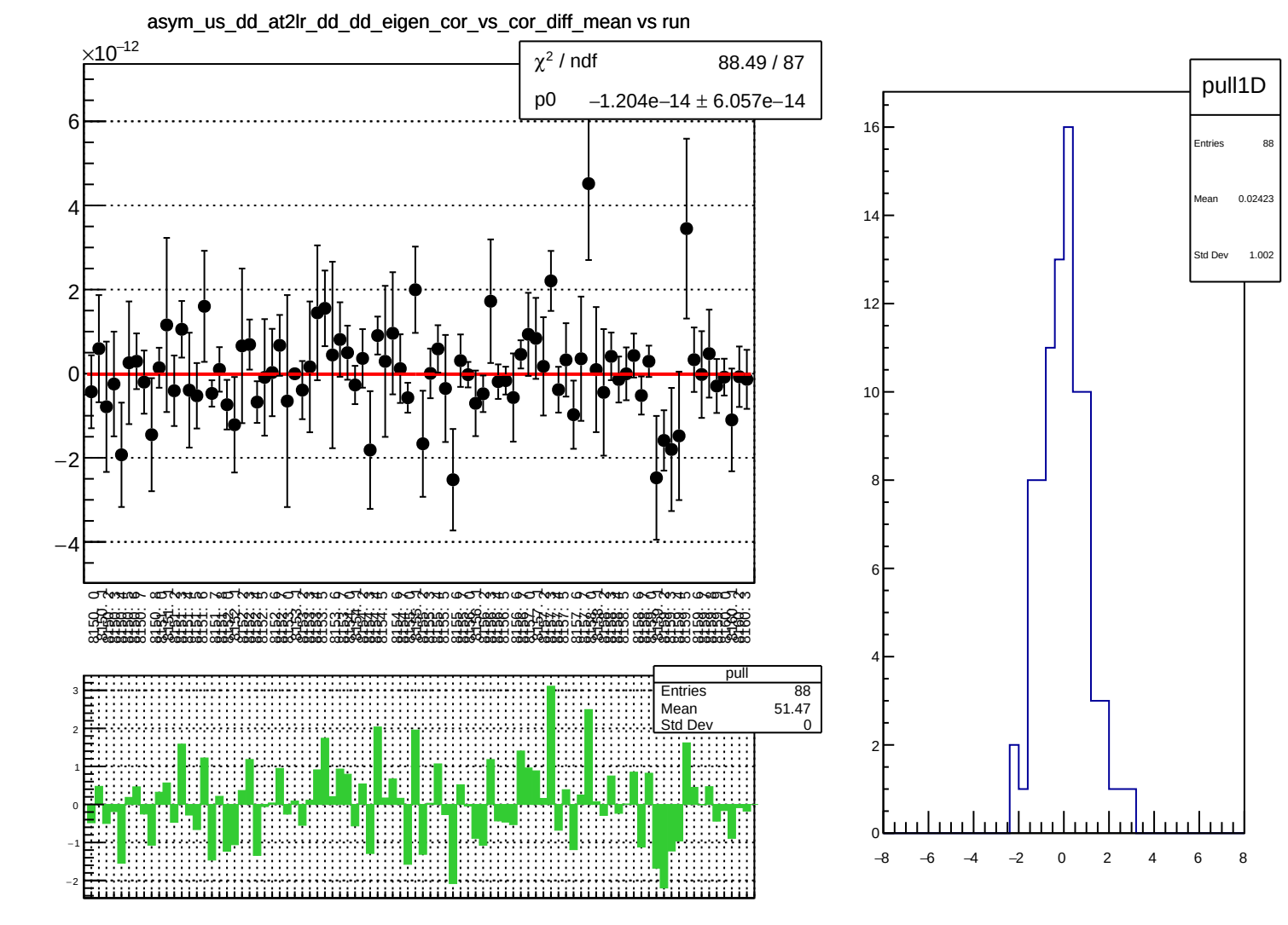

pull1D
Entries 88
Mean 0.007968
Std Dev 1.105

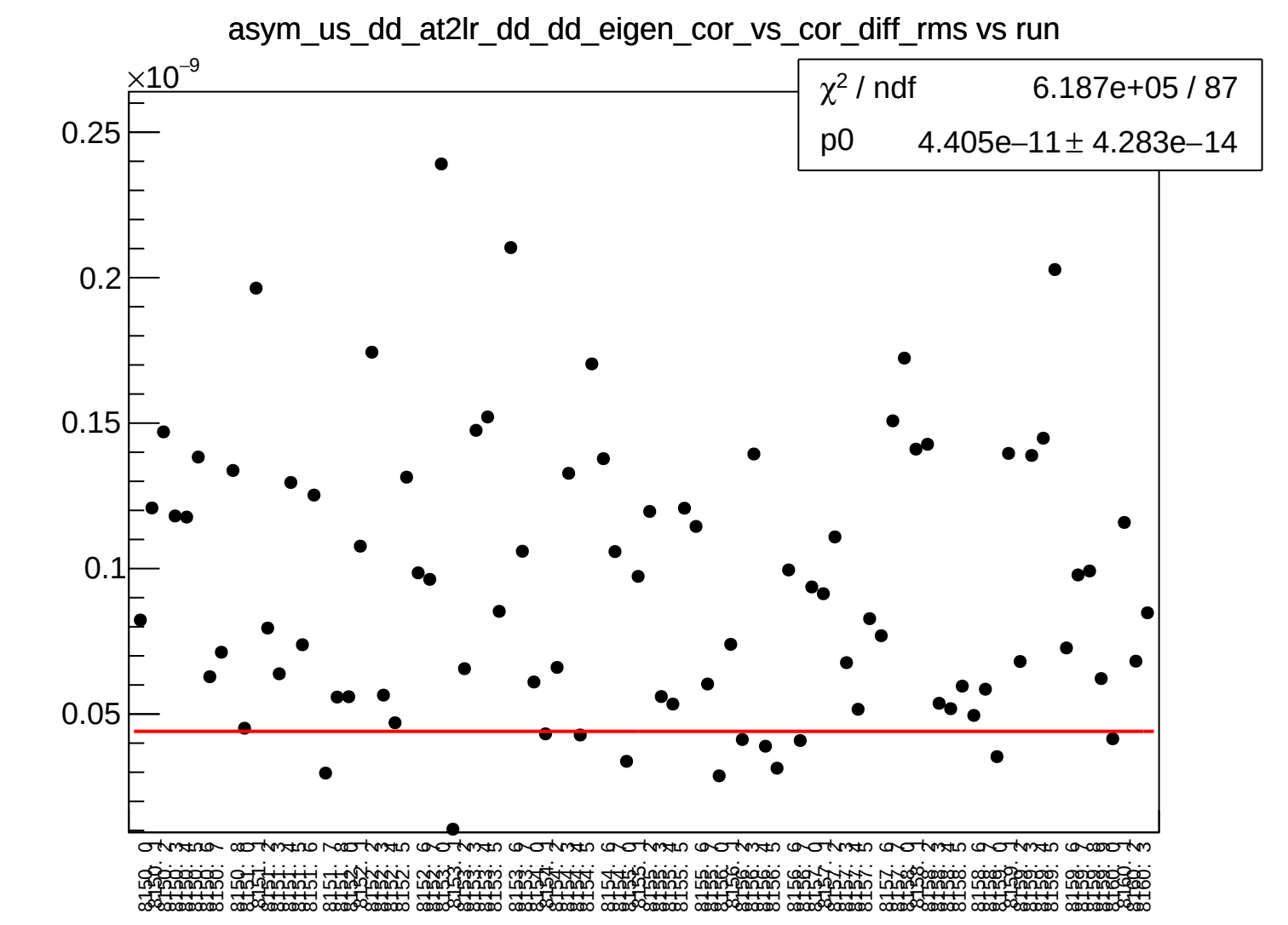

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.787e+05 / 87
p0 44.52 ± 0.03637
90
80
70
60
50
40
30
20

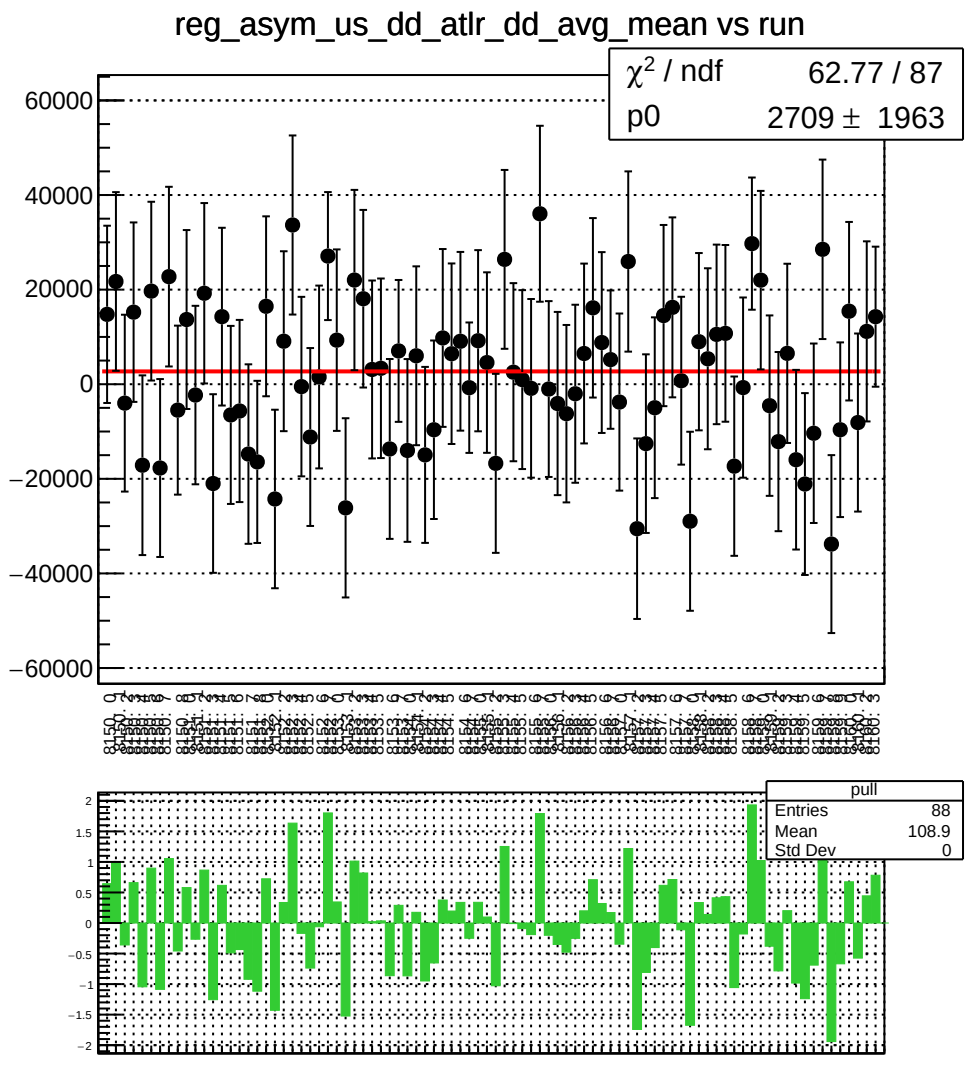

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.5 / 87
p0 −0.0693 ± 0.05144
pull
Entries 88
Mean 535.7
Std Dev 0

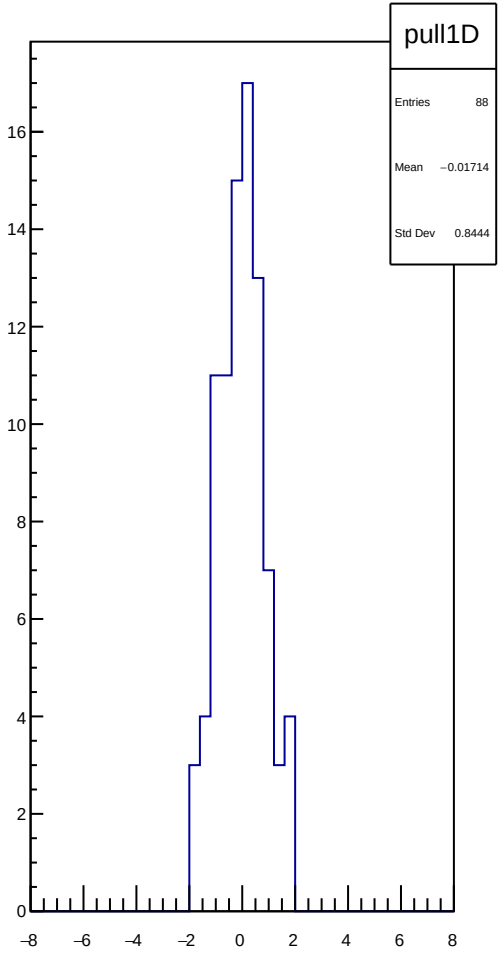

pull1D
Entries 88
Mean 0.007968
Std Dev 1.105

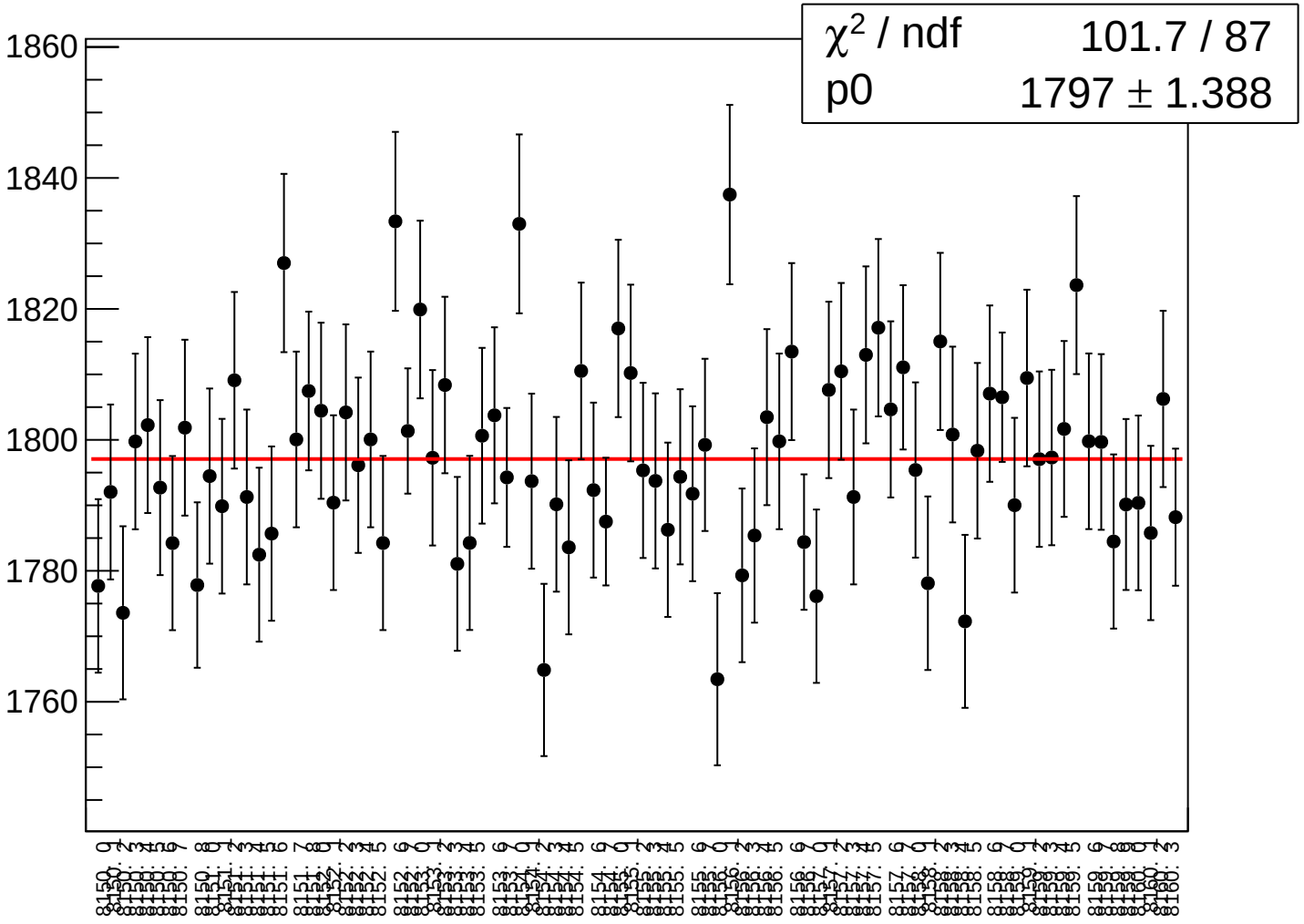

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.787e+05 / 87
p0 44.52 ± 0.03637
90
80
70
60
50
40
30
20

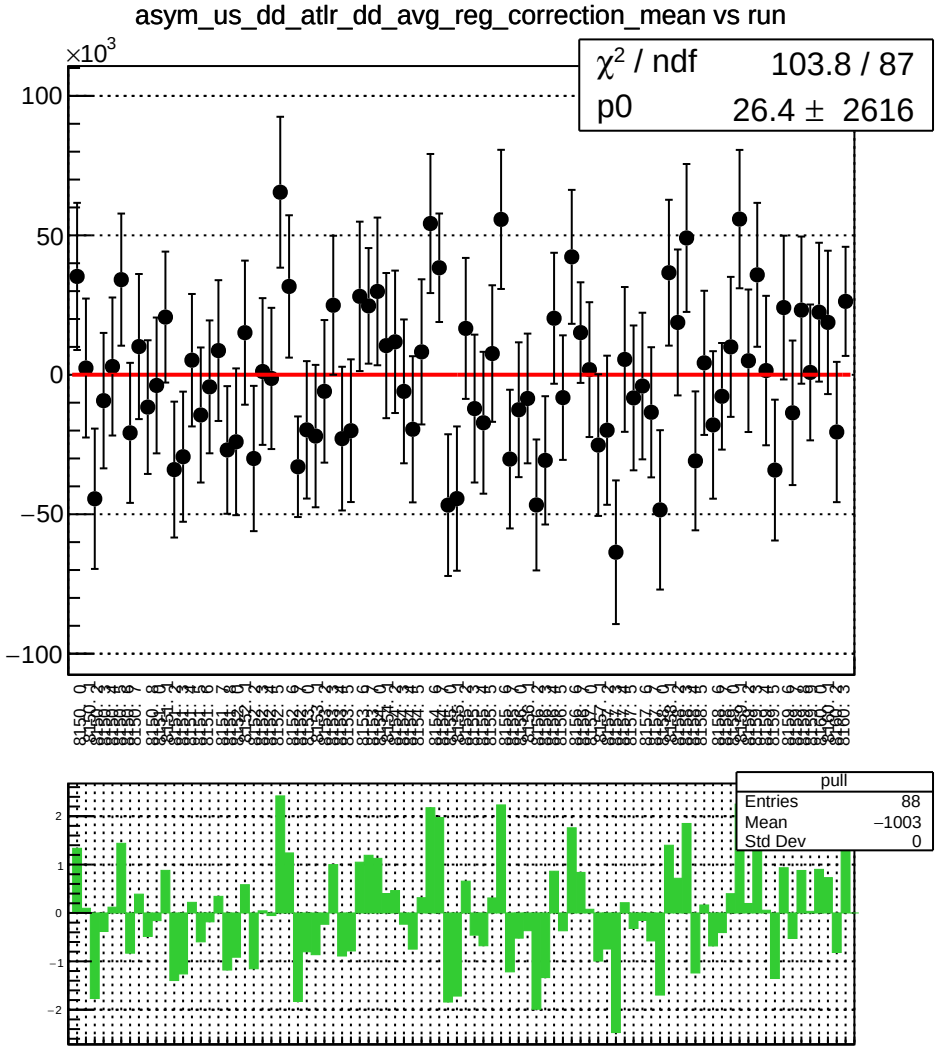

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.49 / 87
p0 −1.204e−14 ± 6.057e−14
pull
Entries 88
Mean 51.47
Std Dev 0
pull1D
Entries 88
Mean 0.02423
Std Dev 1.002

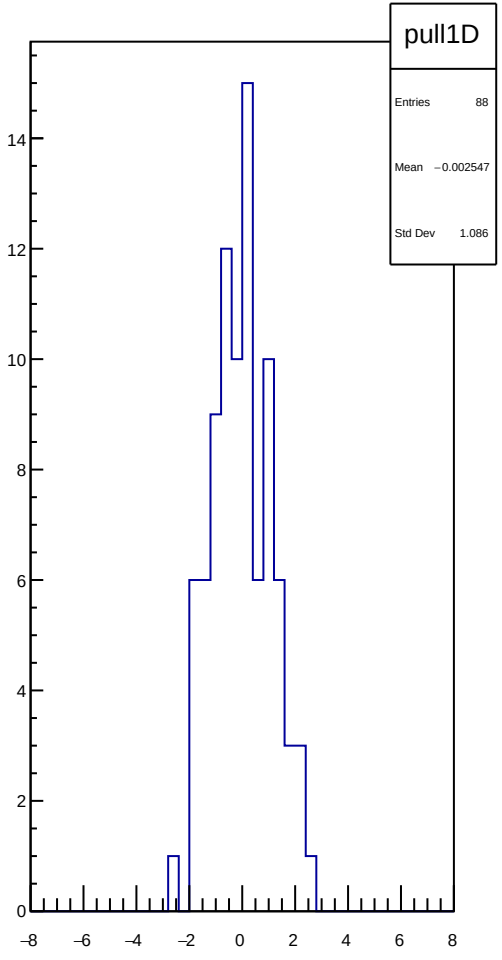

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.187e+05 / 87
p0 4.405e−11 ± 4.283e−14
0.25
0.2
0.15
0.1
0.05

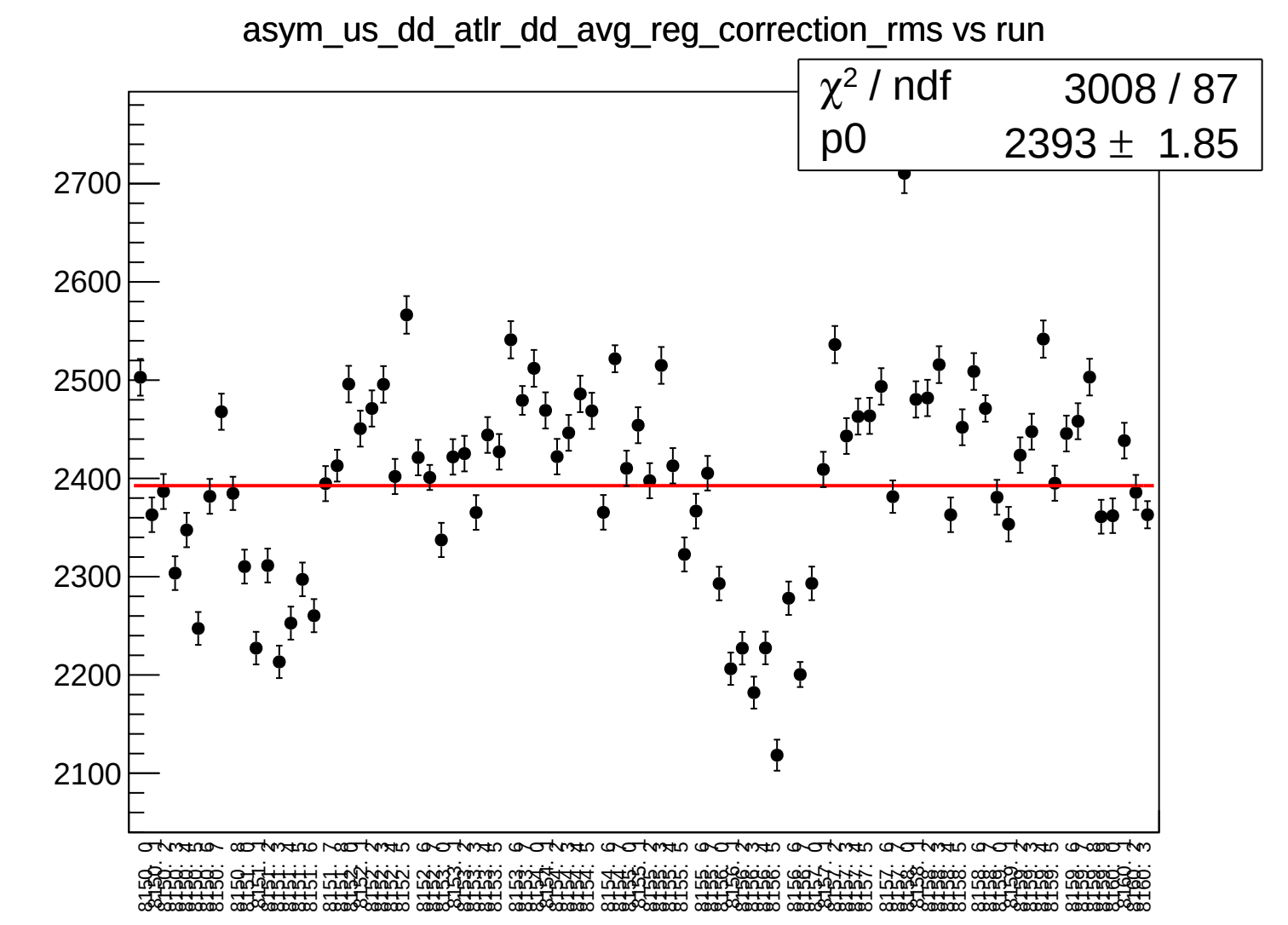

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 62.77 / 87
p0 2709 ± 1963
pull
Entries 88
Mean 108.9
Std Dev 0

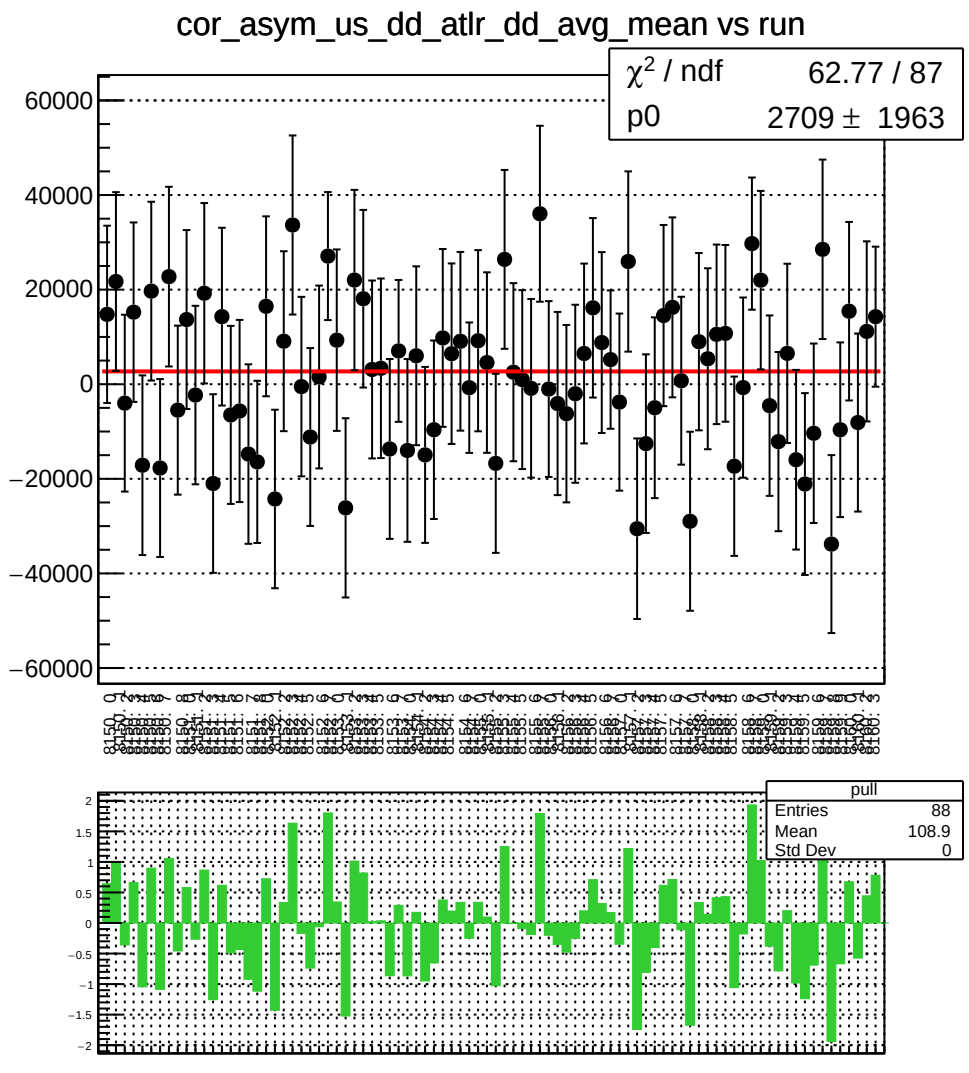

pull1D
Entries 88
Mean −0.01714
Std Dev 0.8444

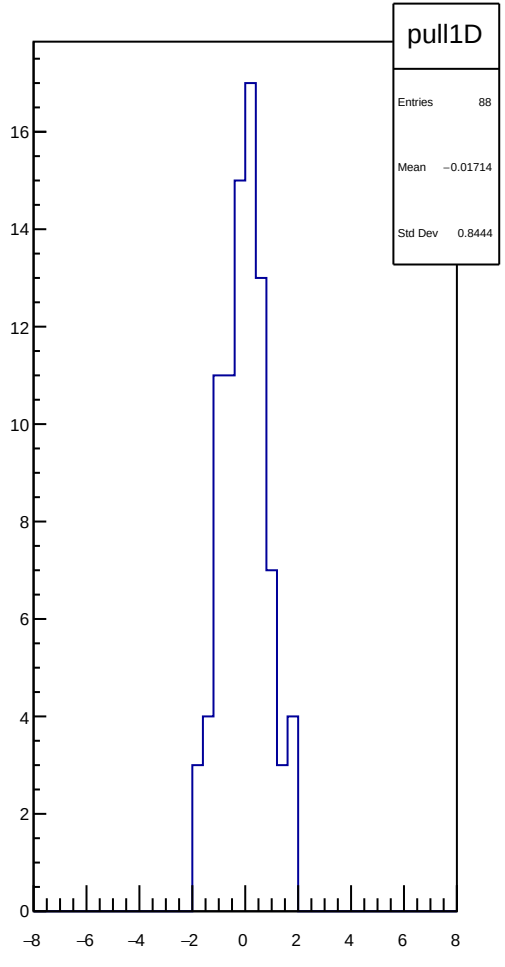

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 101.7 / 87
p0 1797 ± 1.388
1860
1840
1820
1800
1780
1760

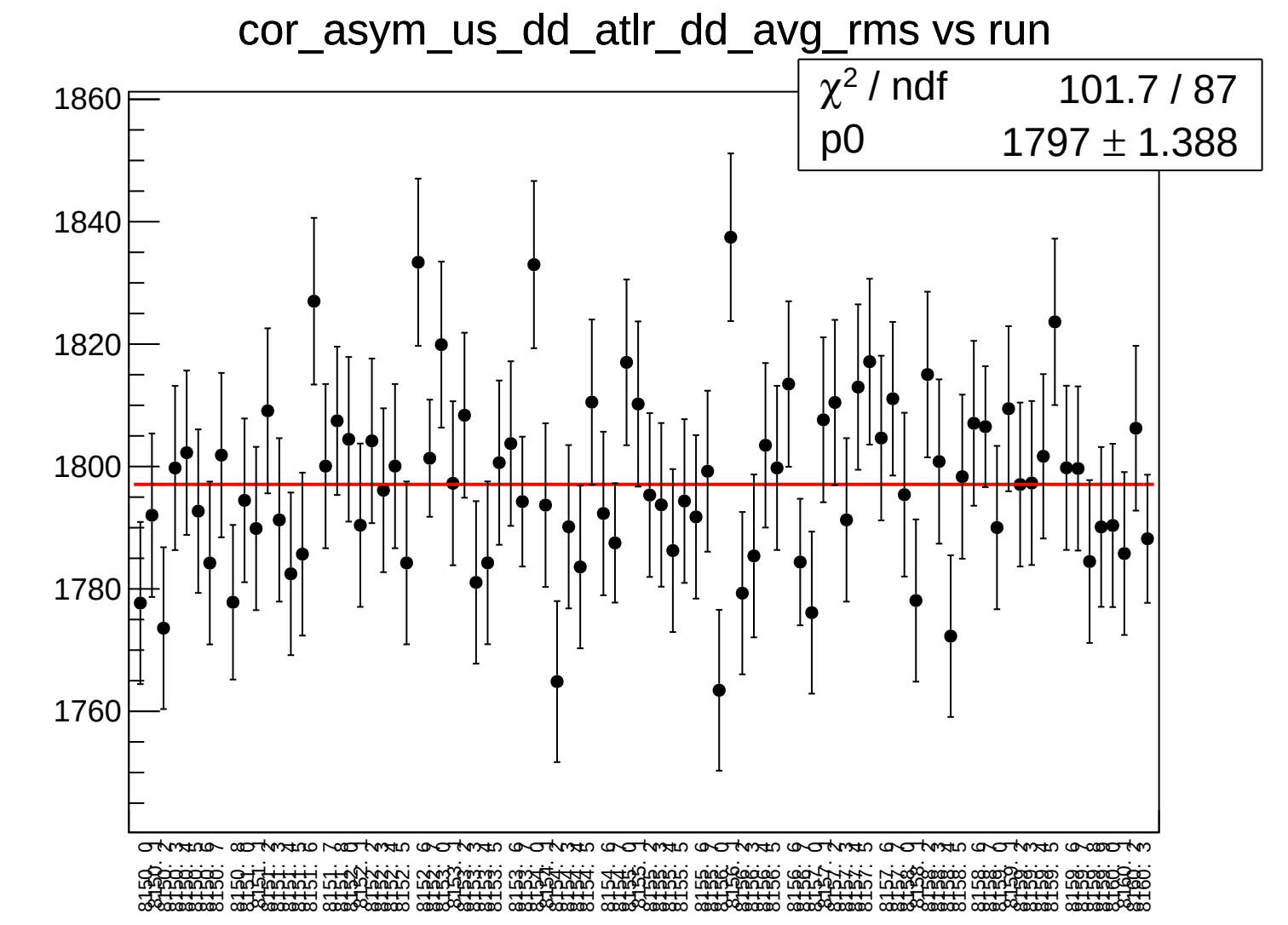

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 103.8 / 87
p0 26.4 ± 2616
pull
Entries 88
Mean −1003
Std Dev 0

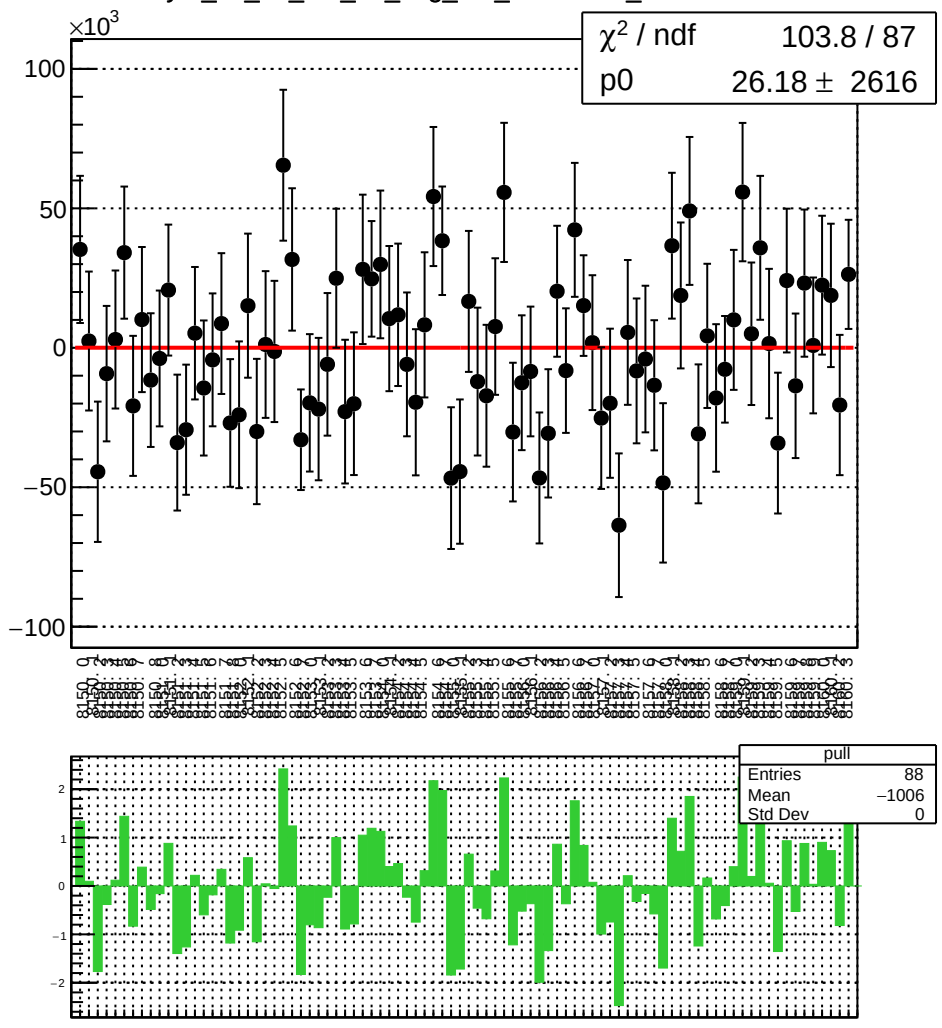

pull1D
Entries 88
Mean −0.002547
Std Dev 1.086

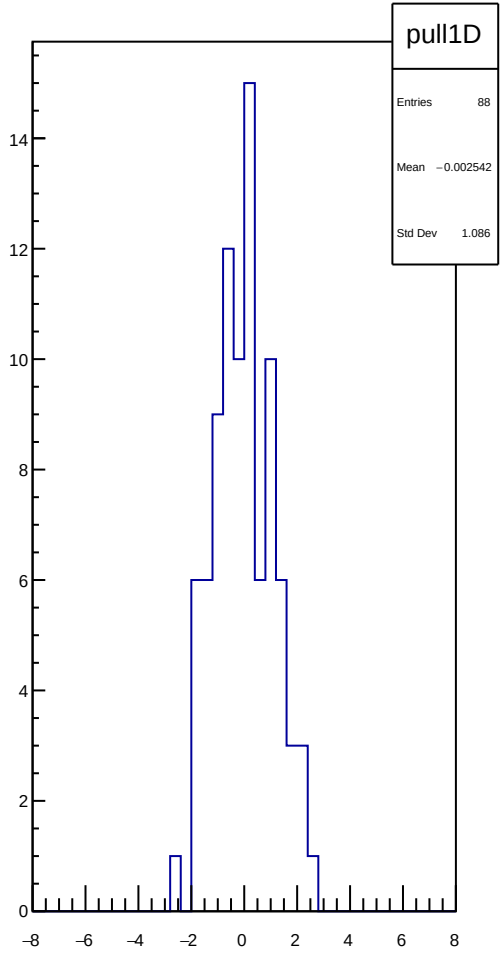

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 3008 / 87
p0 2393 ± 1.85
2700
2600
2500
2400
2300
2200
2100

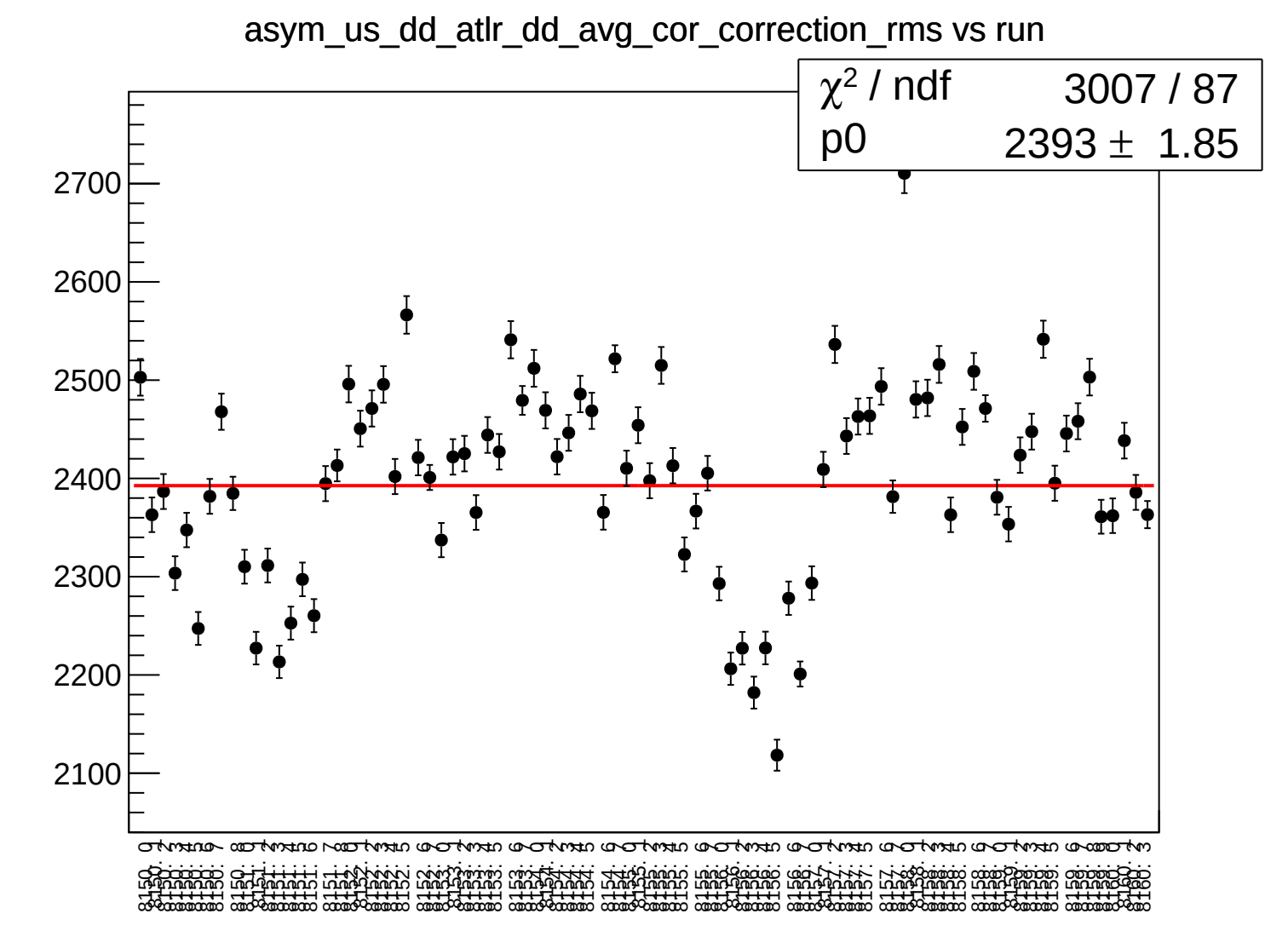

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 62.77 / 87
p0 2709 ± 1963
pull
Entries 88
Mean 108.9
Std Dev 0

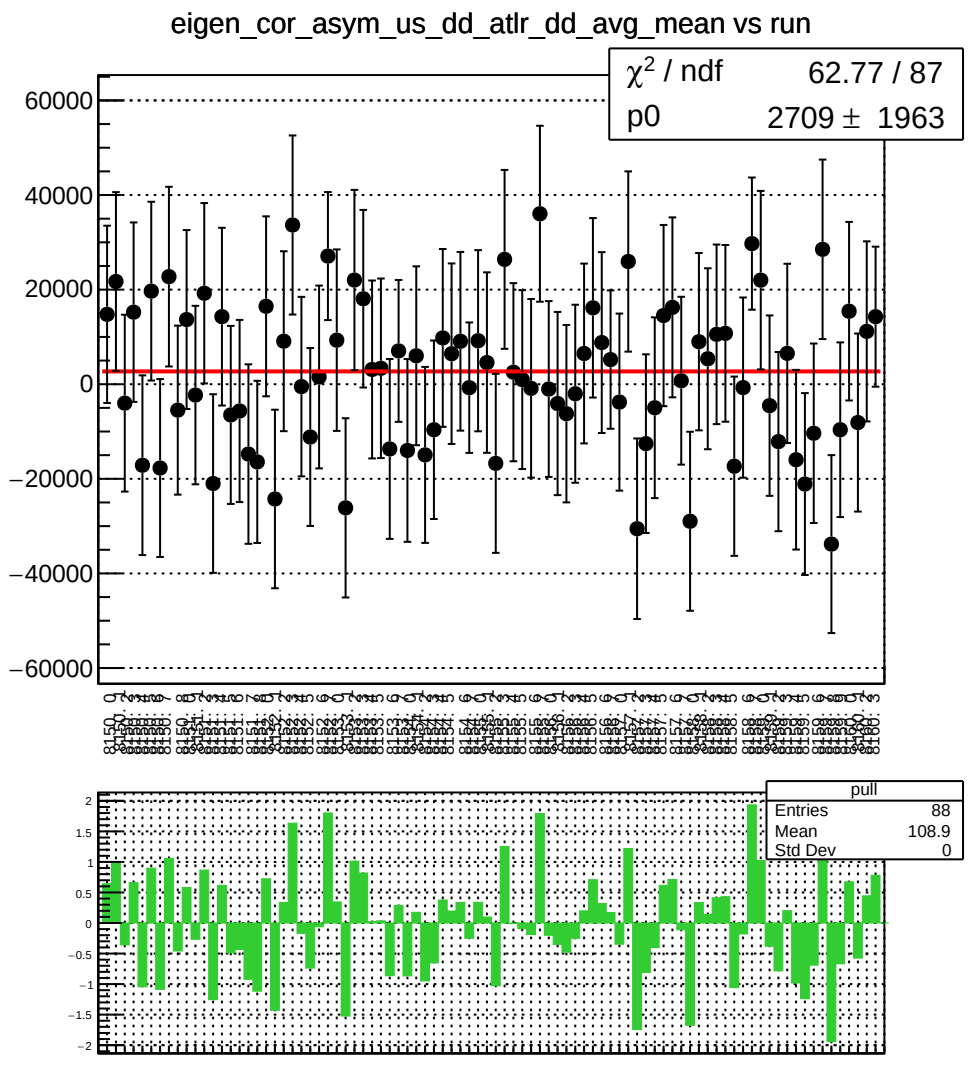

pull1D
Entries 88
Mean −0.01714
Std Dev 0.8444

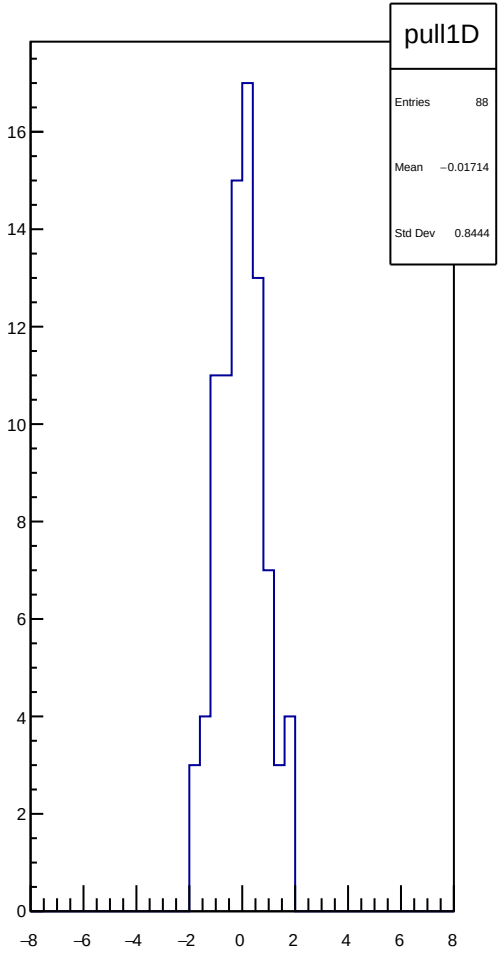

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 101.7 / 87
p0 1797 ± 1.388
1860
1840
1820
1800
1780
1760

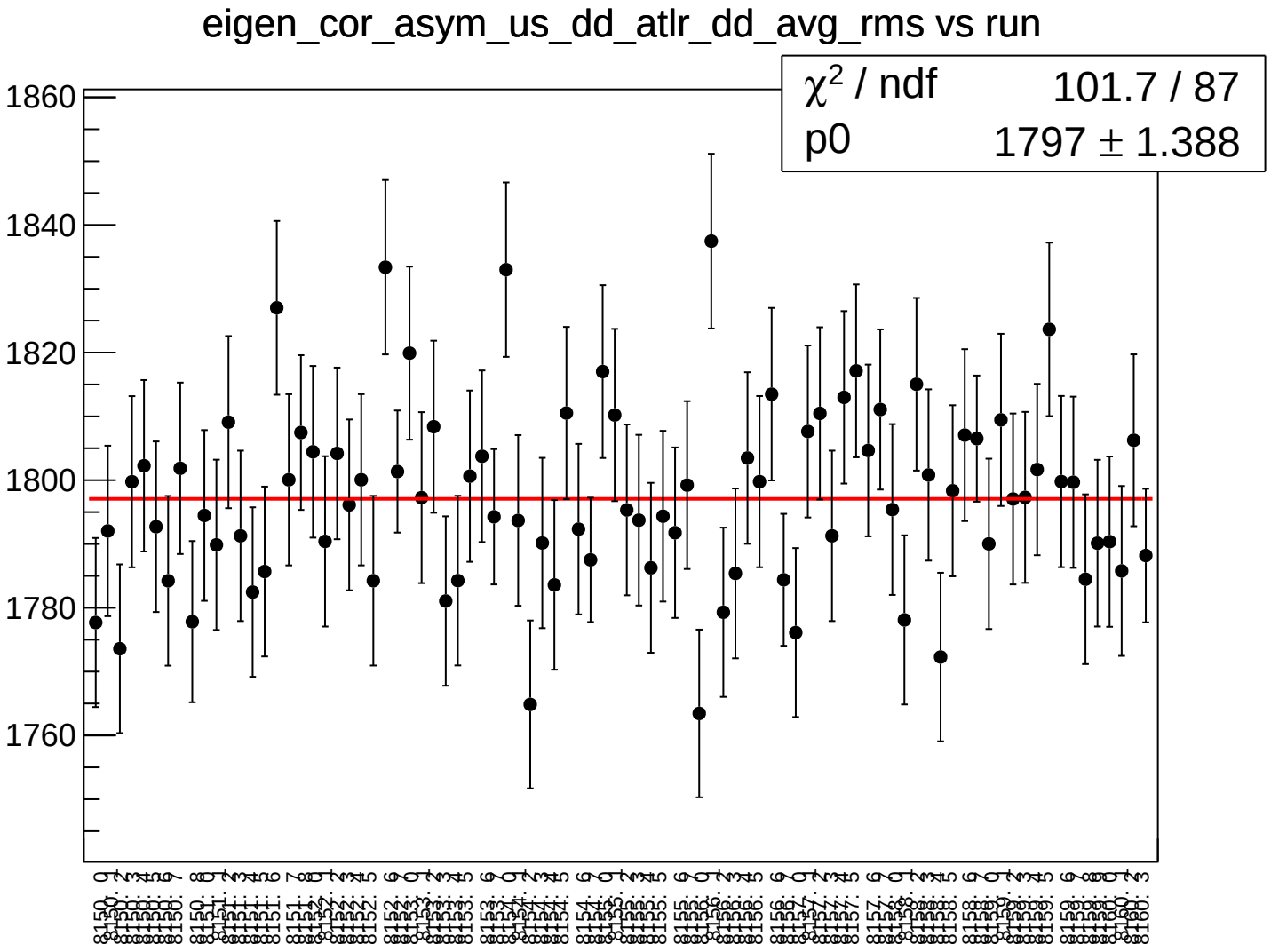

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.8 / 87
p0 26.18 ± 2616
pull
Entries 88
Mean −1006
Std Dev 0

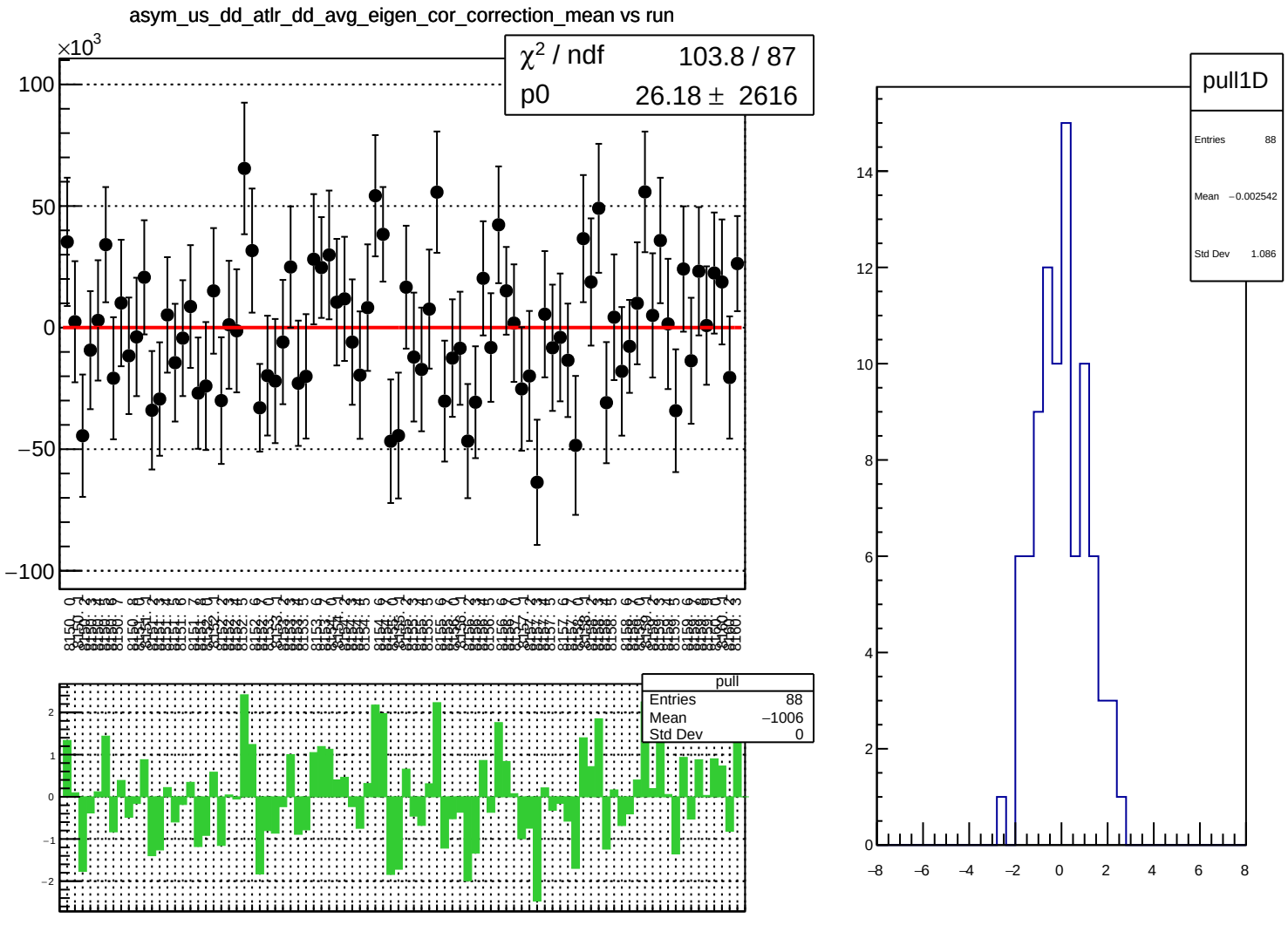

pull1D
Entries 88
Mean −0.002542
Std Dev 1.086

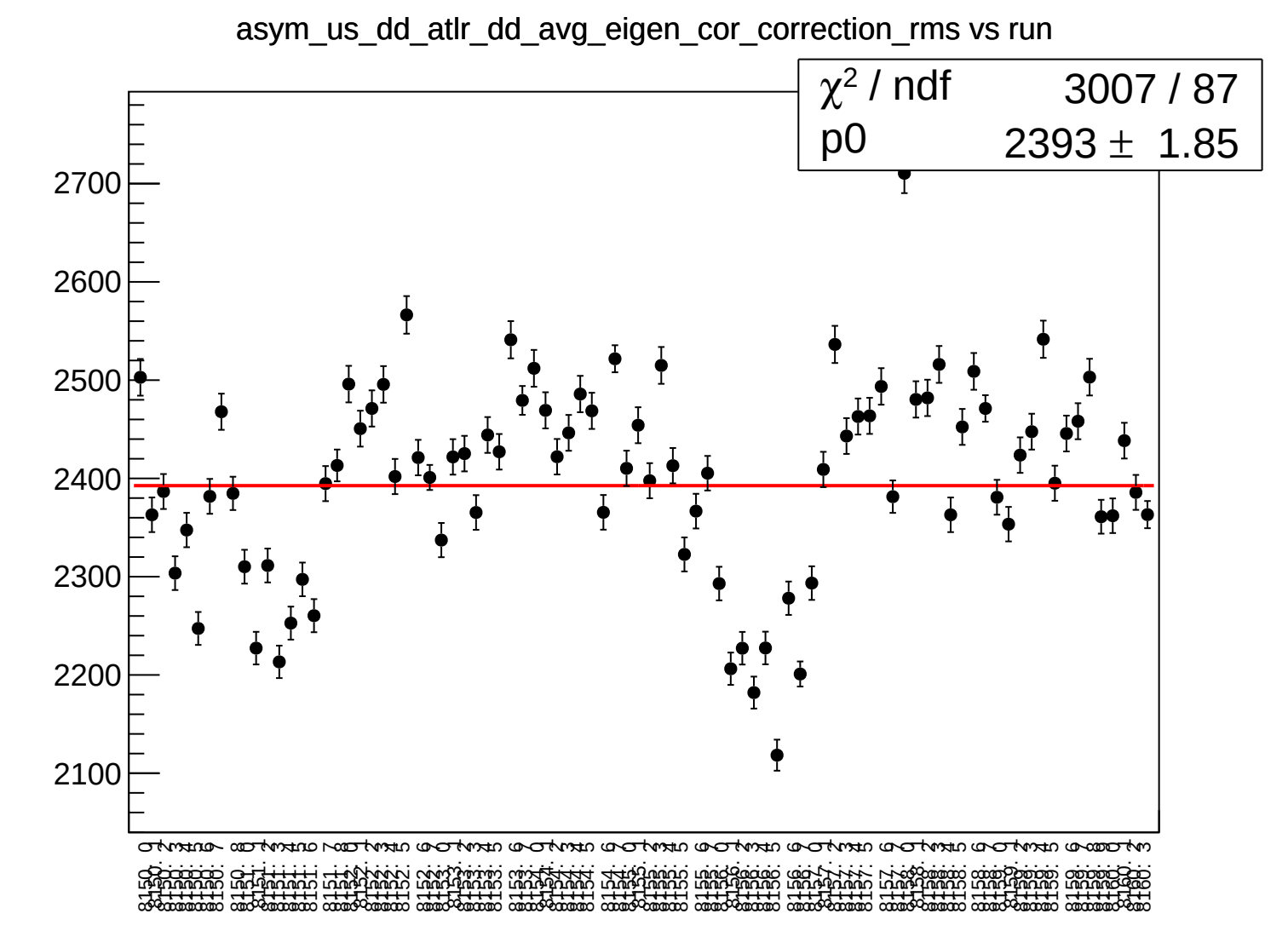

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 3007 / 87
p0 2393 ± 1.85
2700
2600
2500
2400
2300
2200
2100

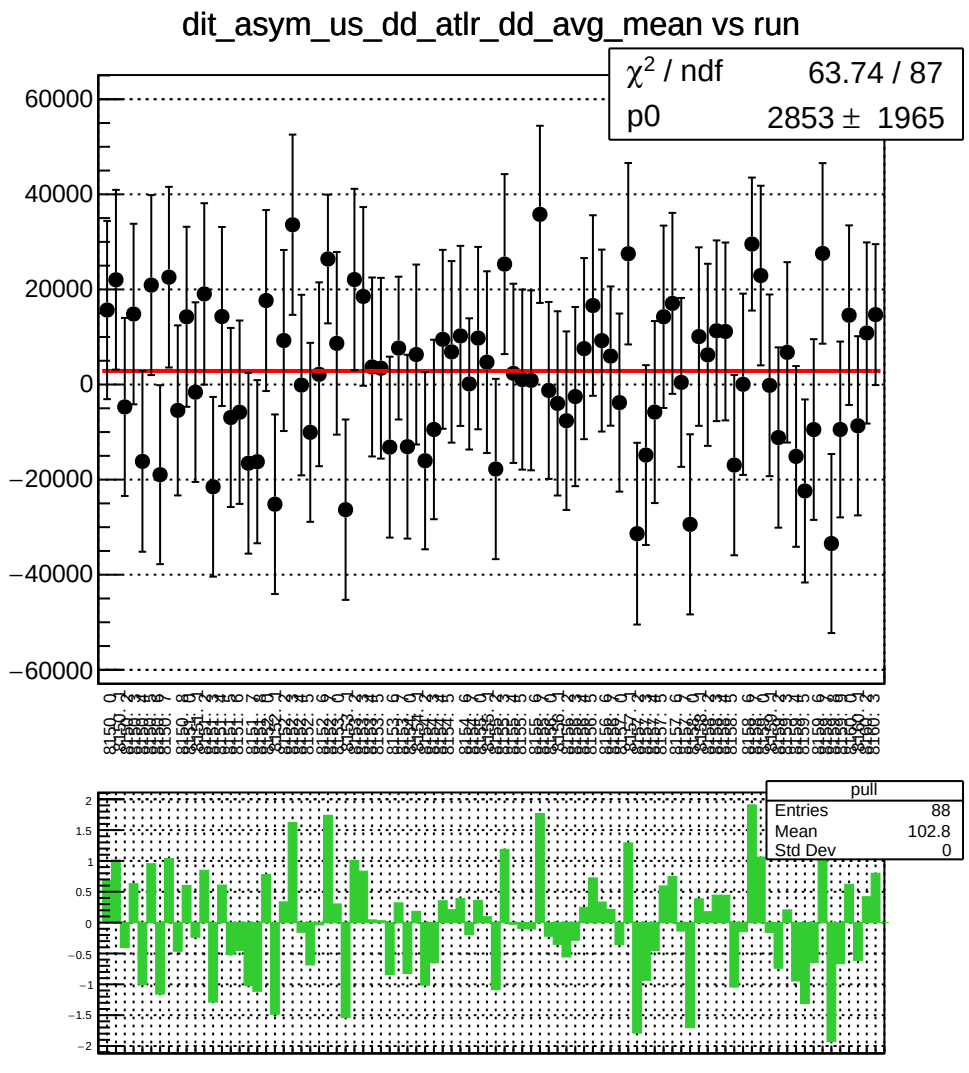

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 62.77 / 87
p0 2709 ± 1963
pull
Entries 88
Mean 108.9
Std Dev 0

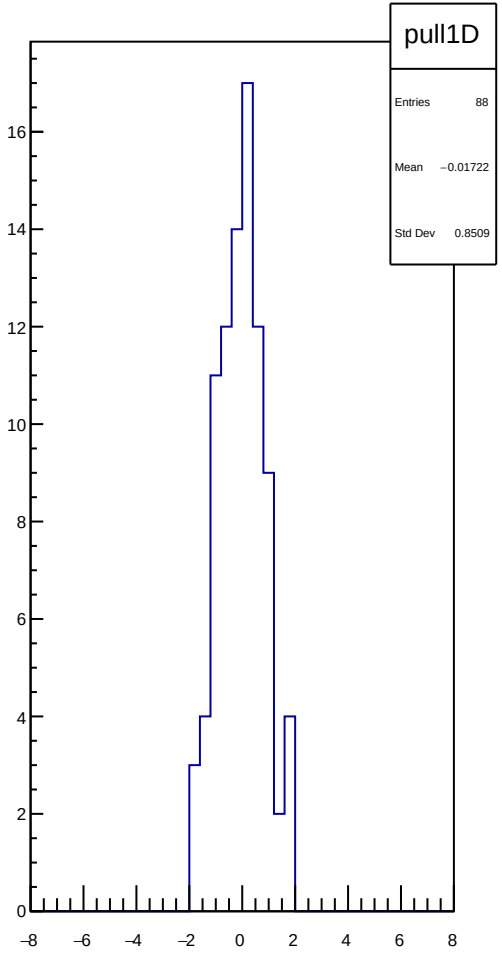

pull1D
Entries 88
Mean −0.01714
Std Dev 0.8444

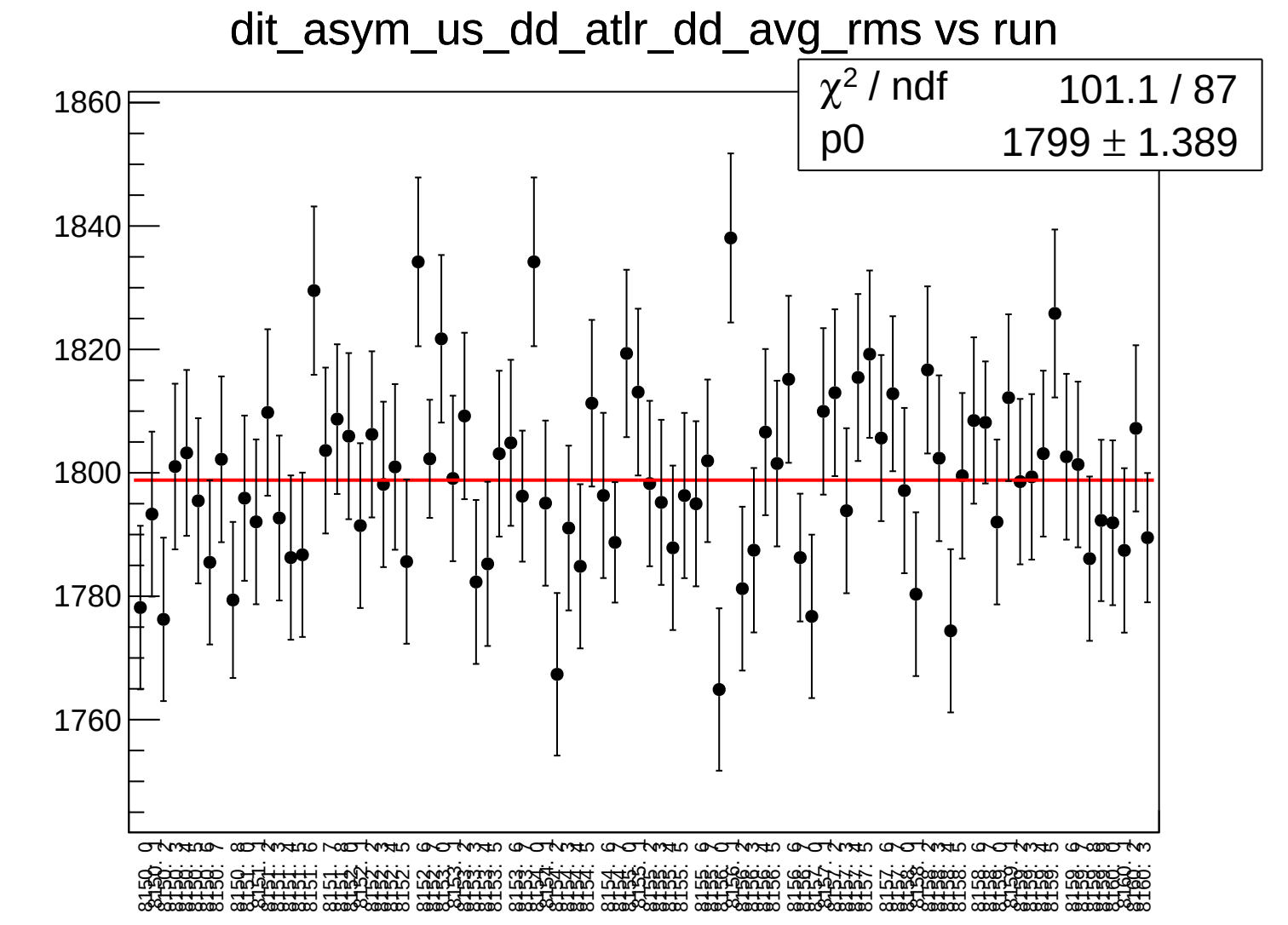

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 101.7 / 87
p0 1797 ± 1.388
1860
1840
1820
1800
1780
1760

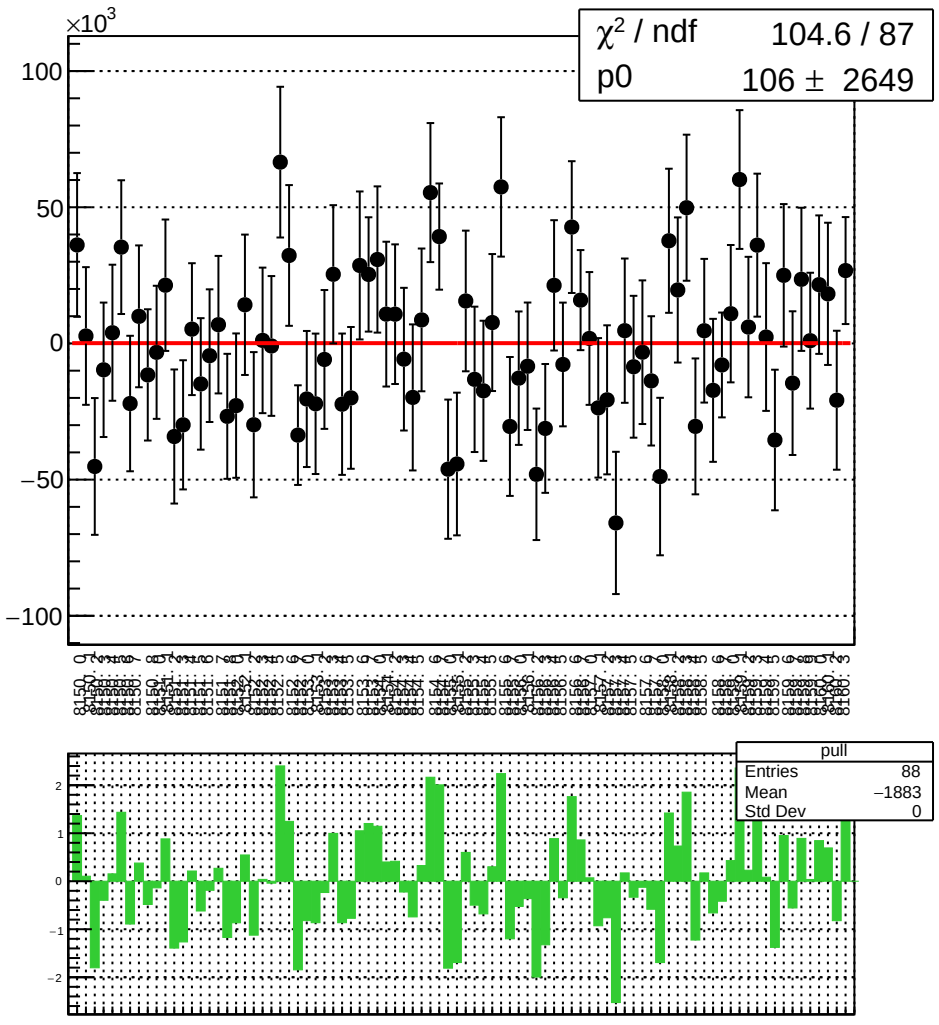

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.8 / 87
p0 26.18 ± 2616
100
50
0
−50
−100
pull
Entries 88
Mean −1006
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002542
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

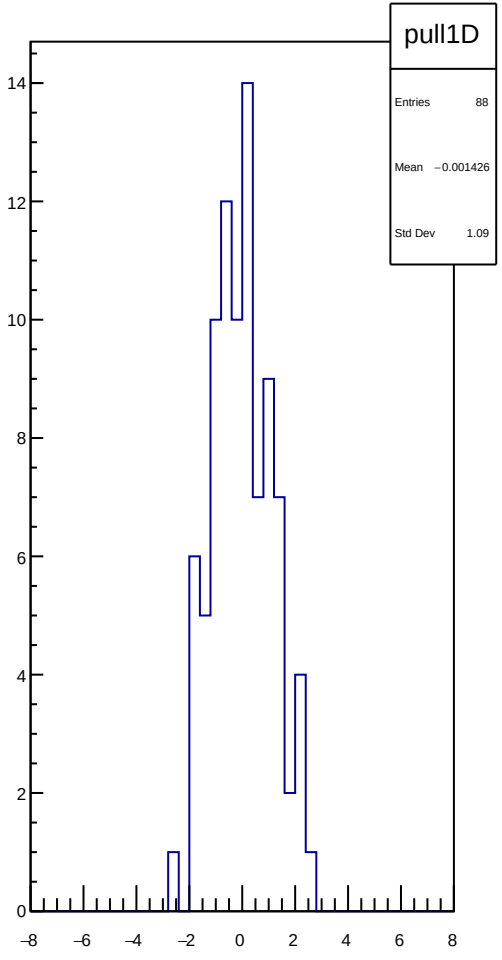

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3007 / 87
p0 2393 ± 1.85
2700
2600
2500
2400
2300
2200
2100

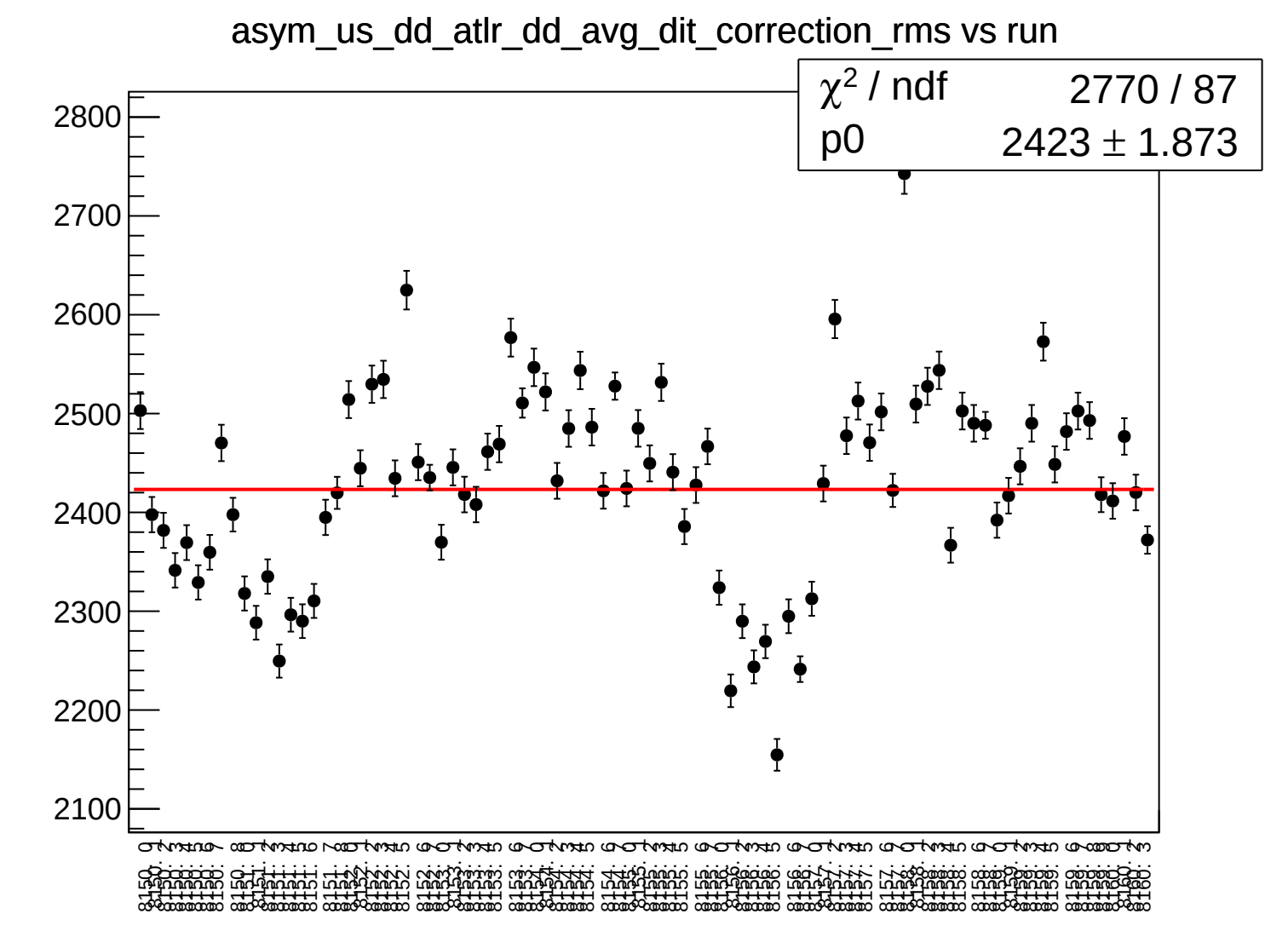

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 63.74 / 87
p0 2853 ± 1965
pull
Entries 88
Mean 102.8
Std Dev 0

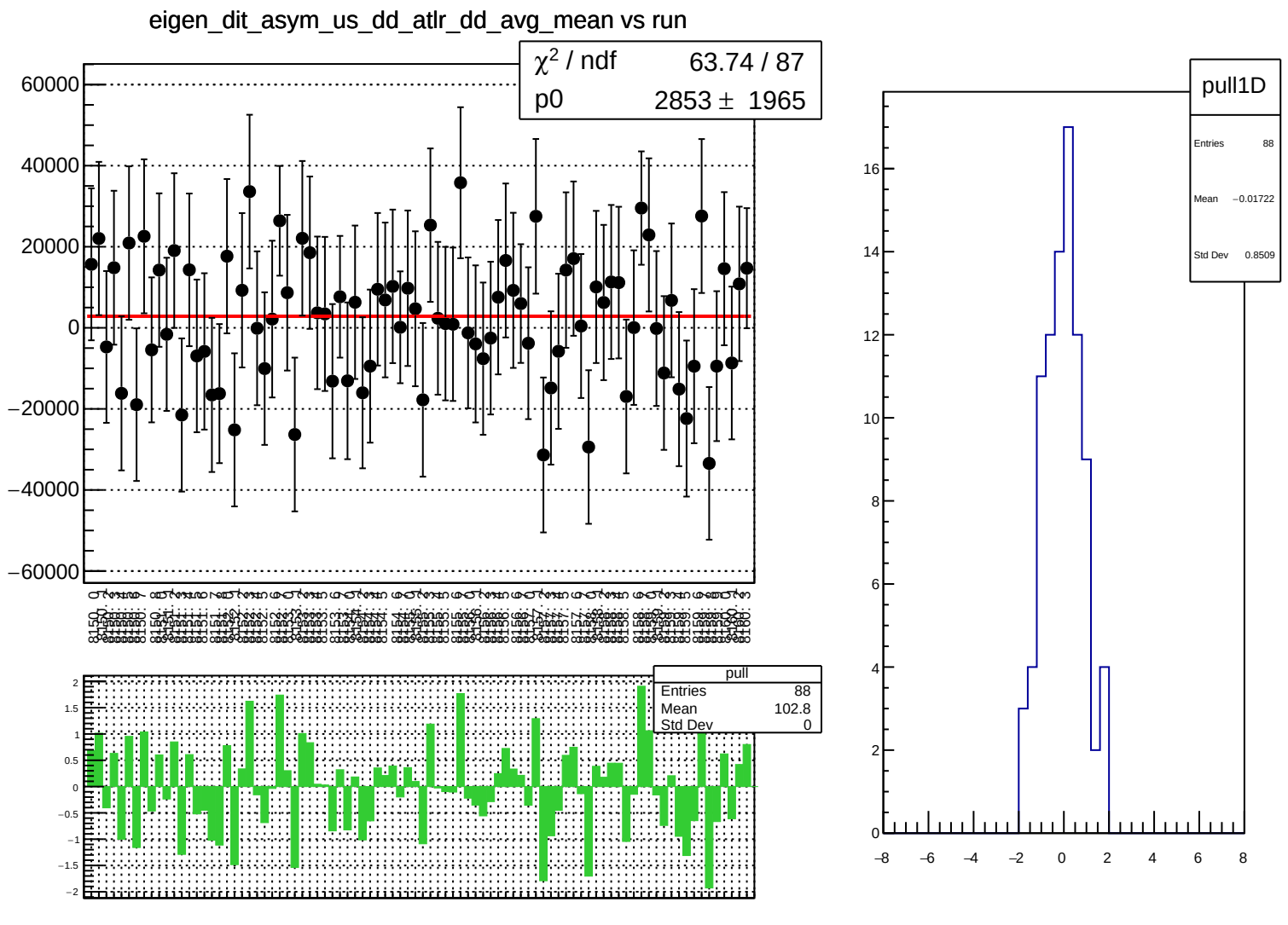

pull1D
Entries 88
Mean −0.01722
Std Dev 0.8509

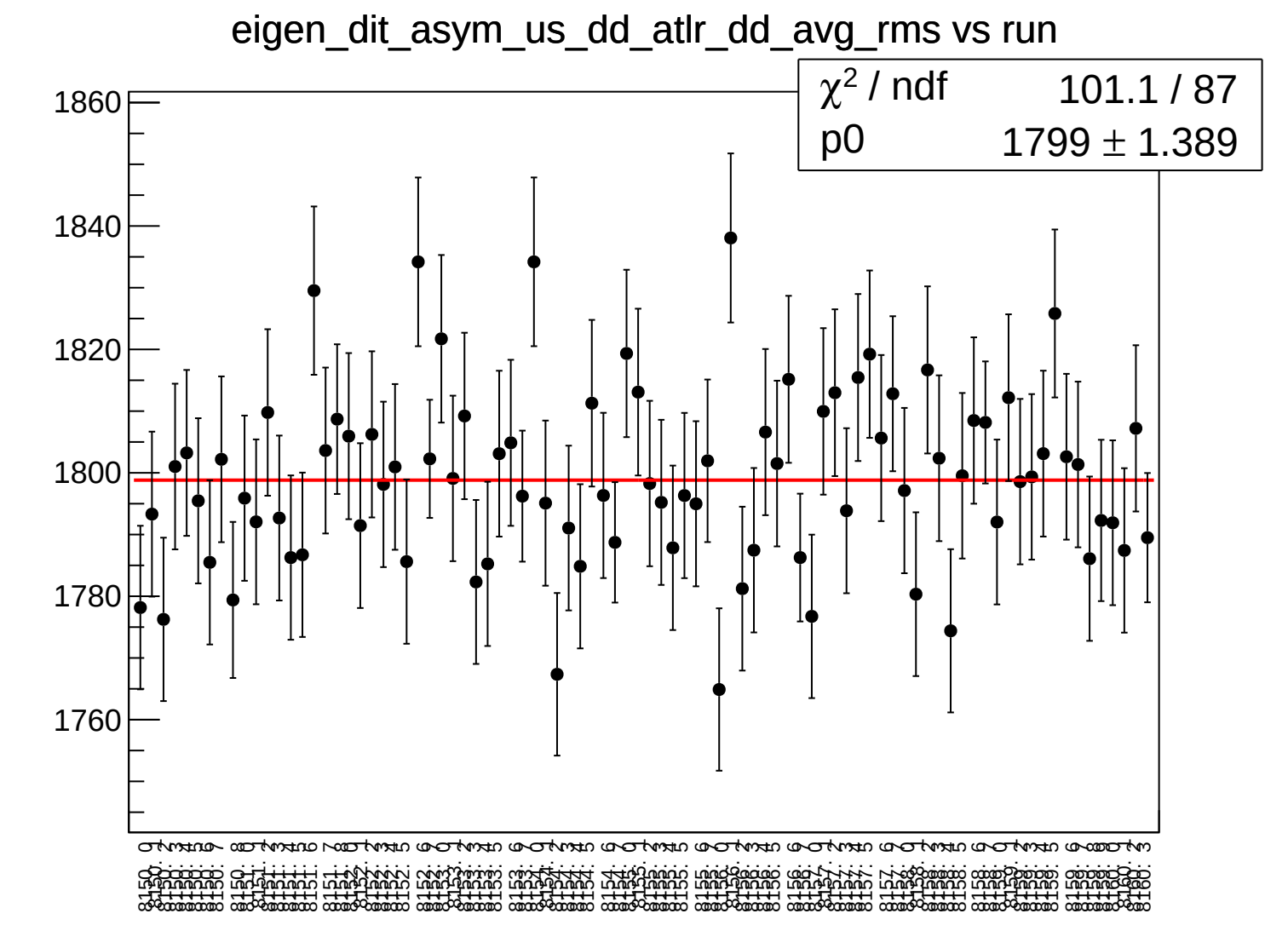

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 101.1 / 87
p0 1799 ± 1.389
1860
1840
1820
1800
1780
1760

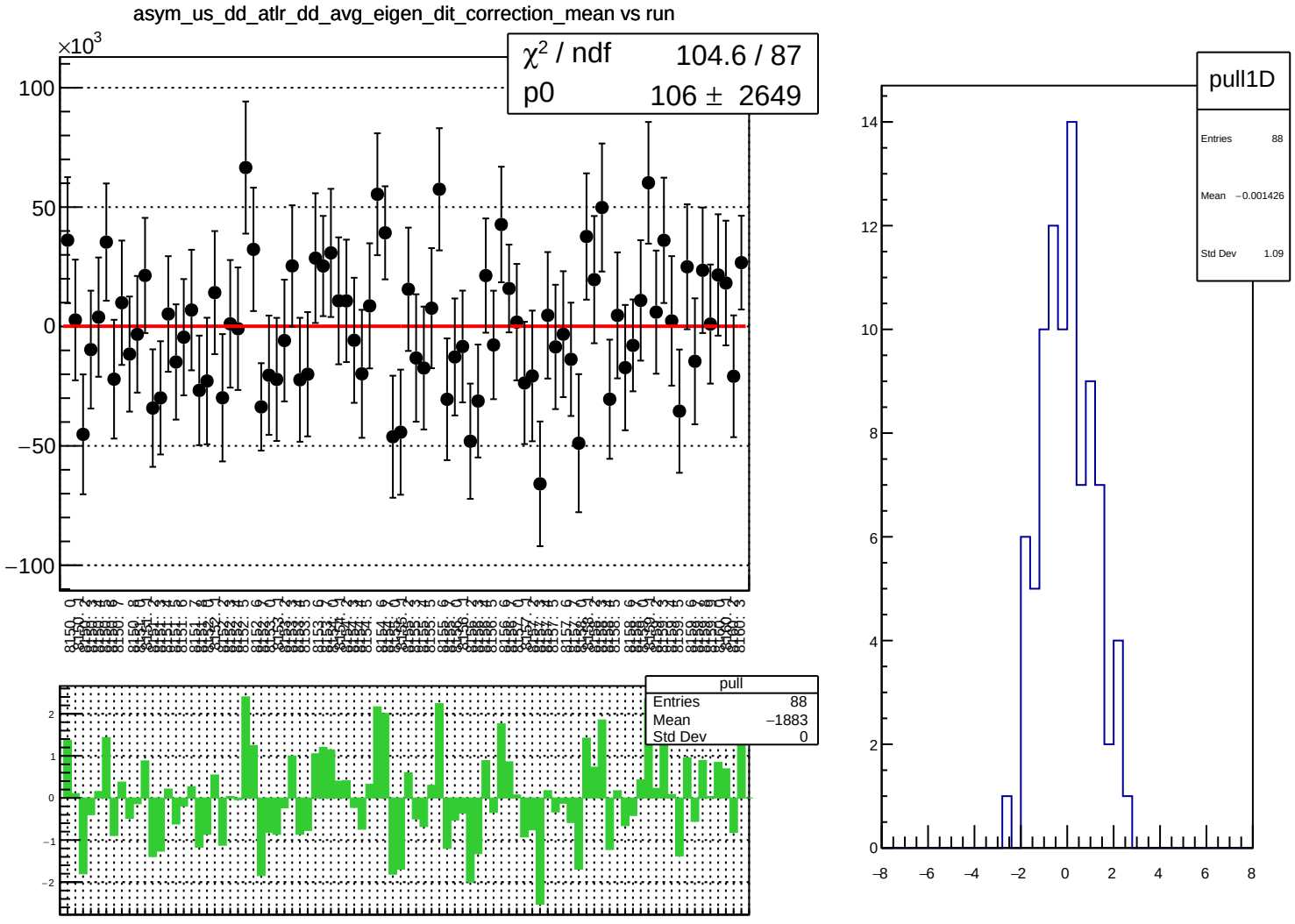

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 104.6 / 87
p0 106 ± 2649
pull
Entries 88
Mean −1883
Std Dev 0

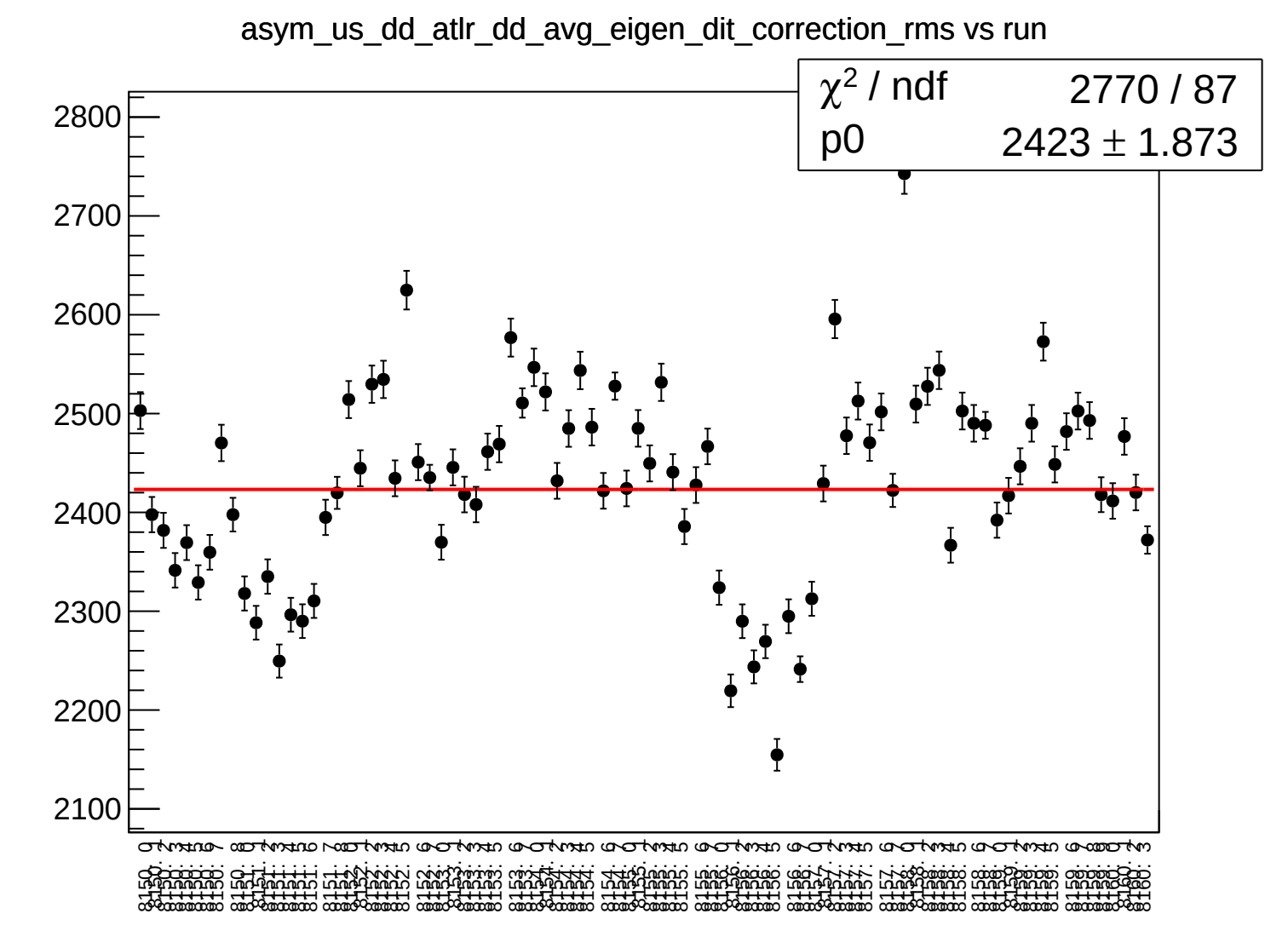

pull1D
Entries 88
Mean −0.001426
Std Dev 1.09

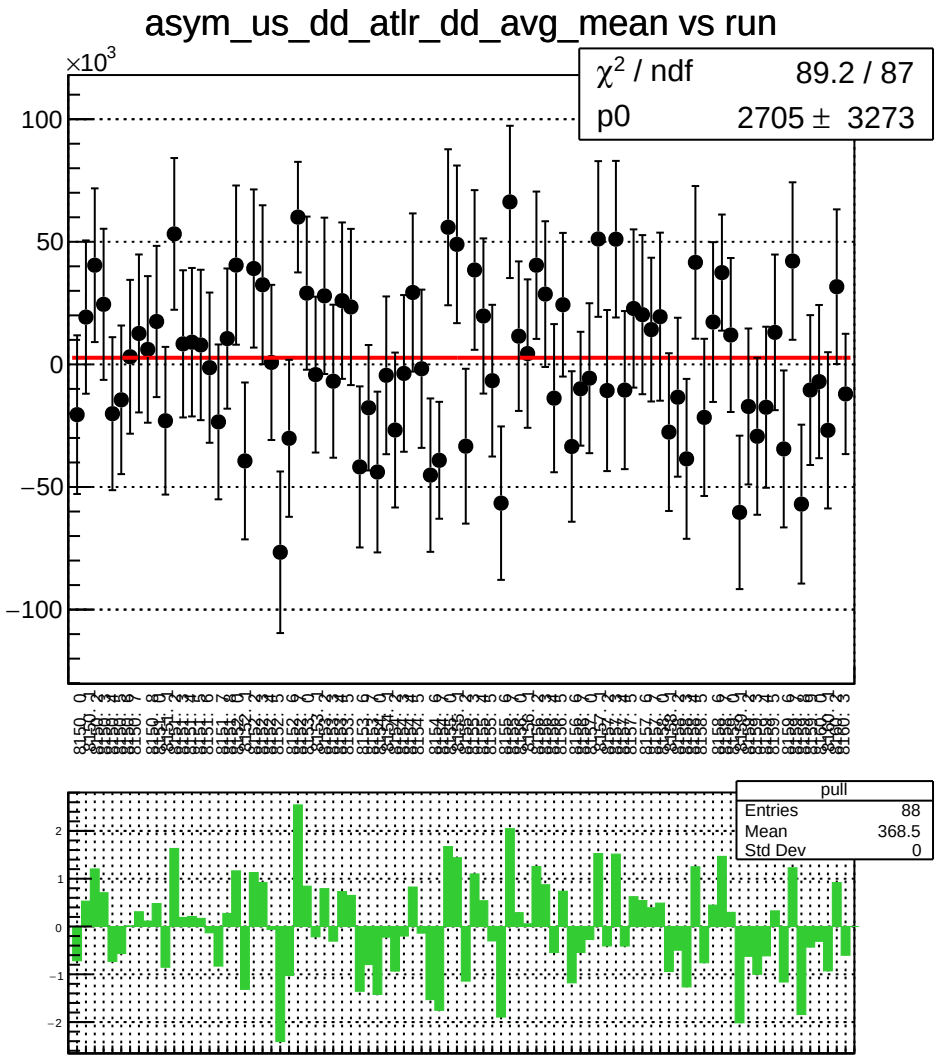

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 2770 / 87
p0 2423 ± 1.873
2800
2700
2600
2500
2400
2300
2200
2100

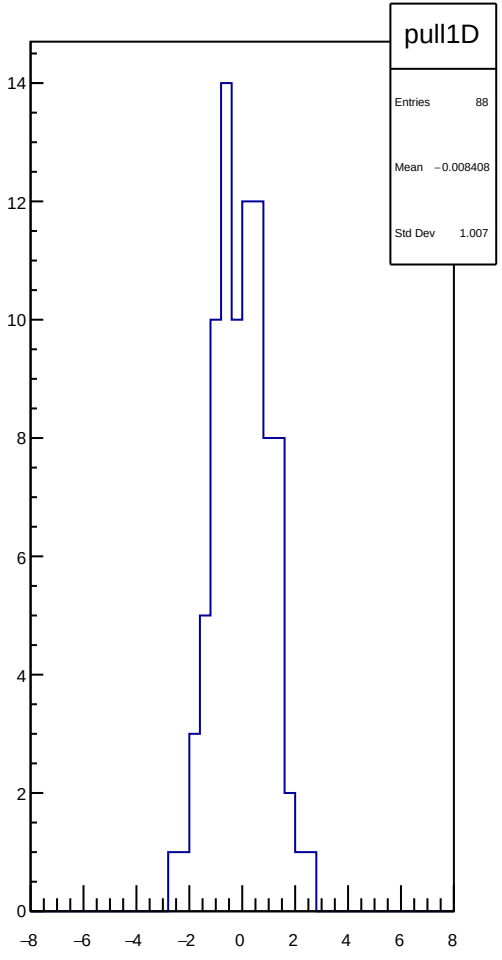

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 63.74 / 87
p0 2853 ± 1965
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 102.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.01722
Std Dev 0.8509
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

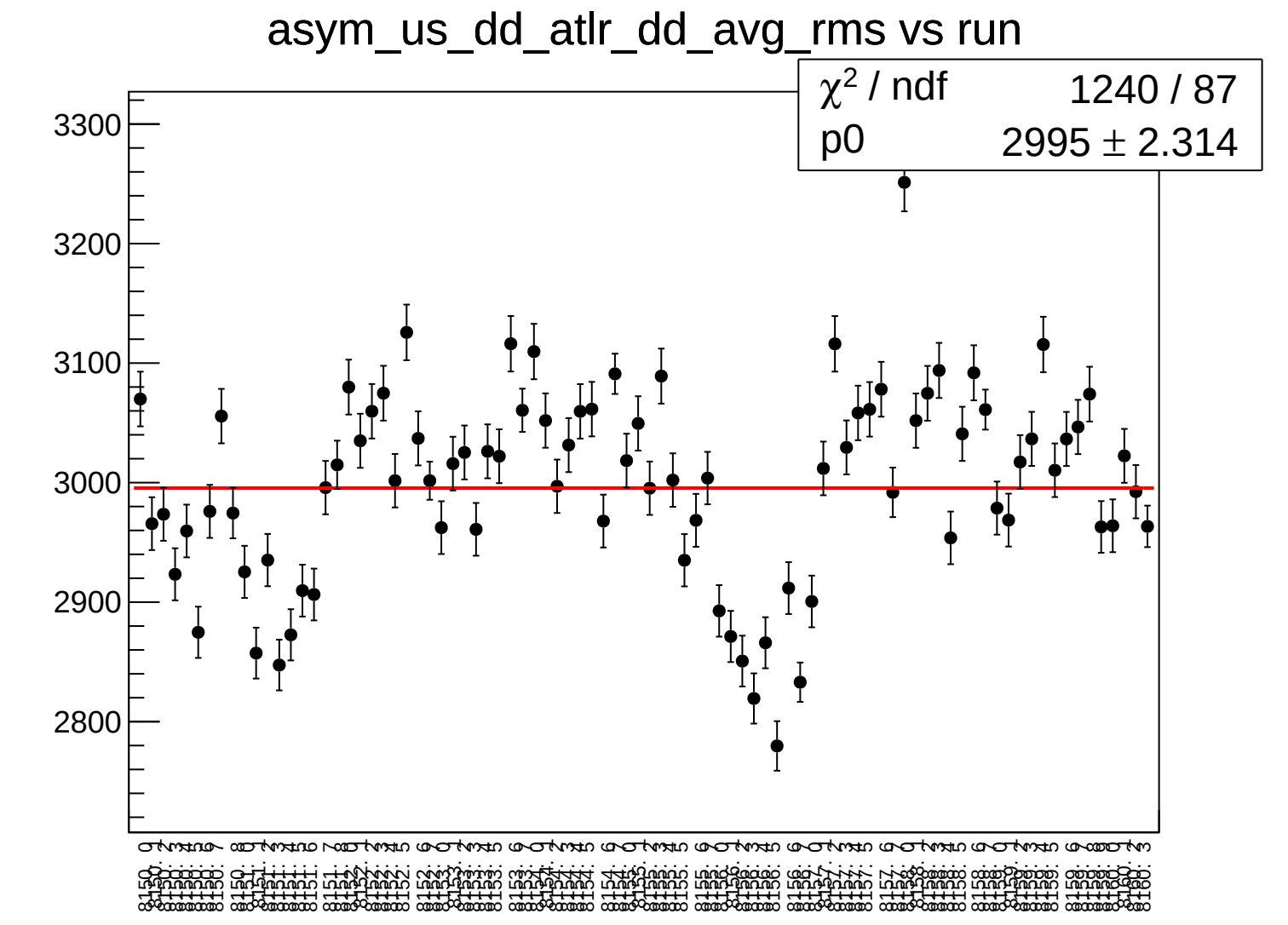

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 101.1 / 87
p0 1799 ± 1.389
1860
1840
1820
1800
1780
1760

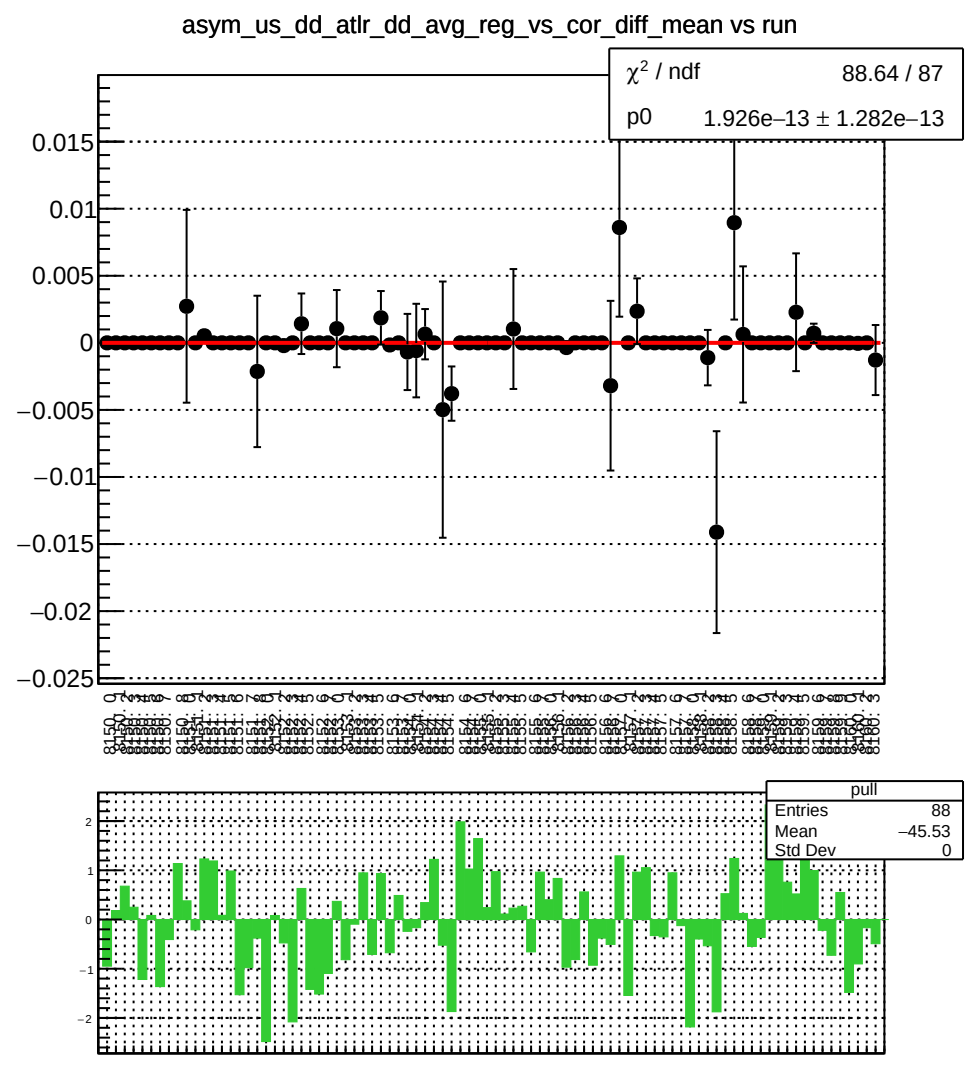

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 104.6 / 87
p0 106 ± 2649
100
50
0
−50
−100
pull
Entries 88
Mean −1883
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001426
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

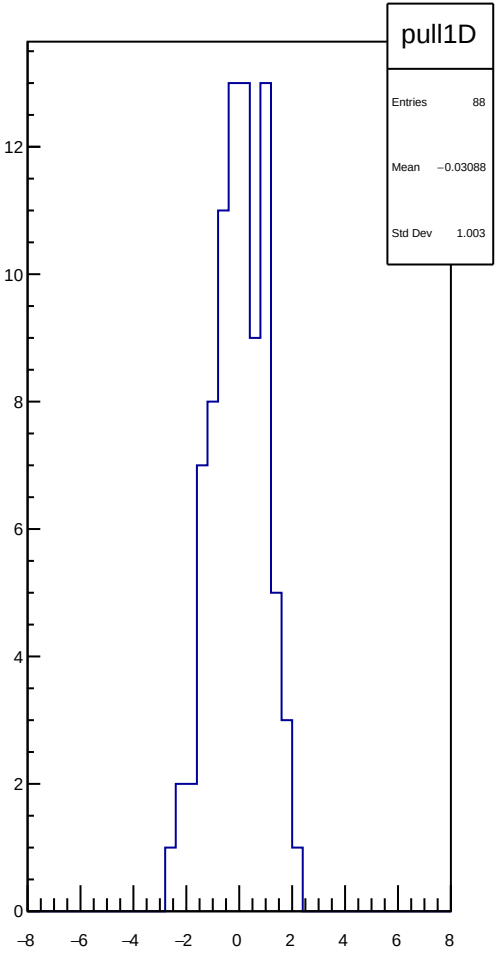

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2770 / 87
p0 2423 ± 1.873
2800
2700
2600
2500
2400
2300
2200
2100

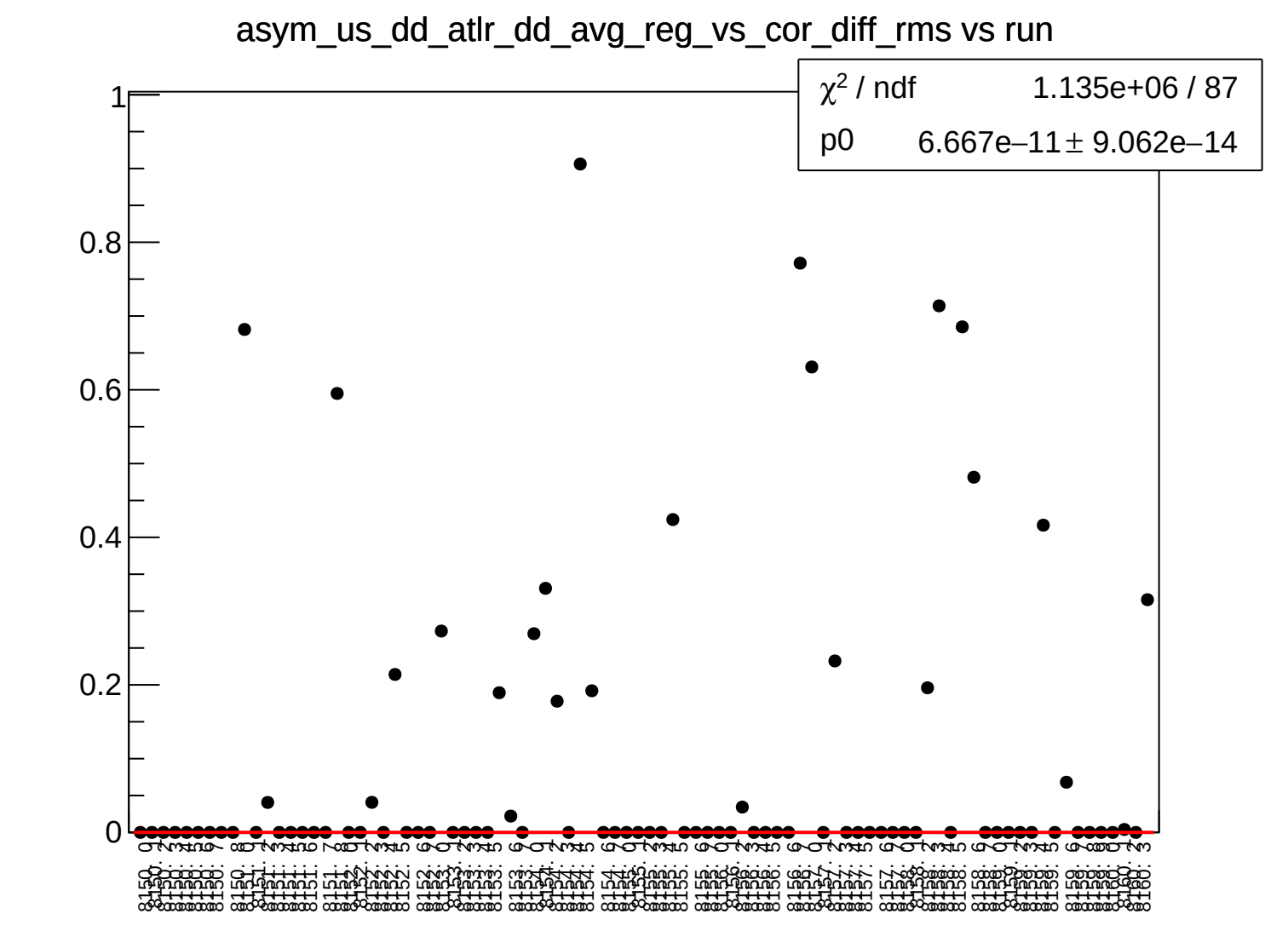

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 89.2 / 87
p0 2705 ± 3273
100
50
0
−50
−100
pull
Entries 88
Mean 368.5
Std Dev 0
2
1
0
−1
−2

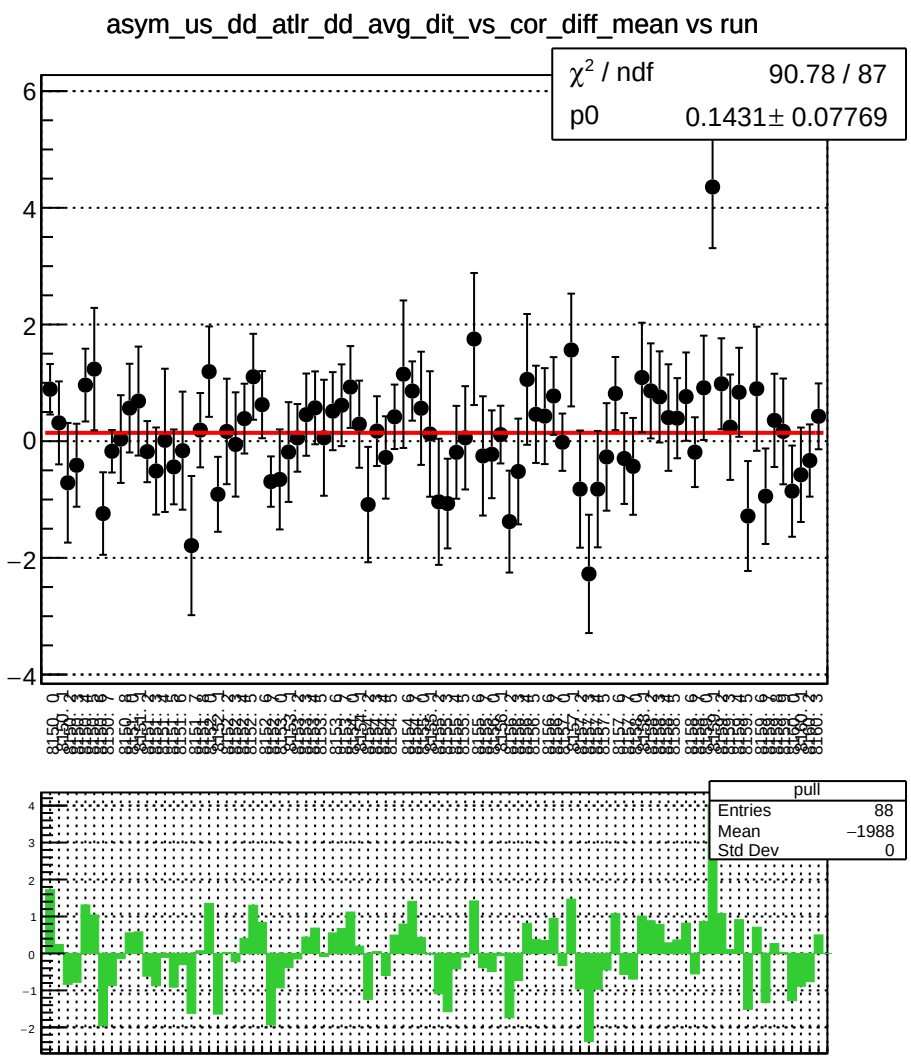

pull1D
Entries 88
Mean −0.008408
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

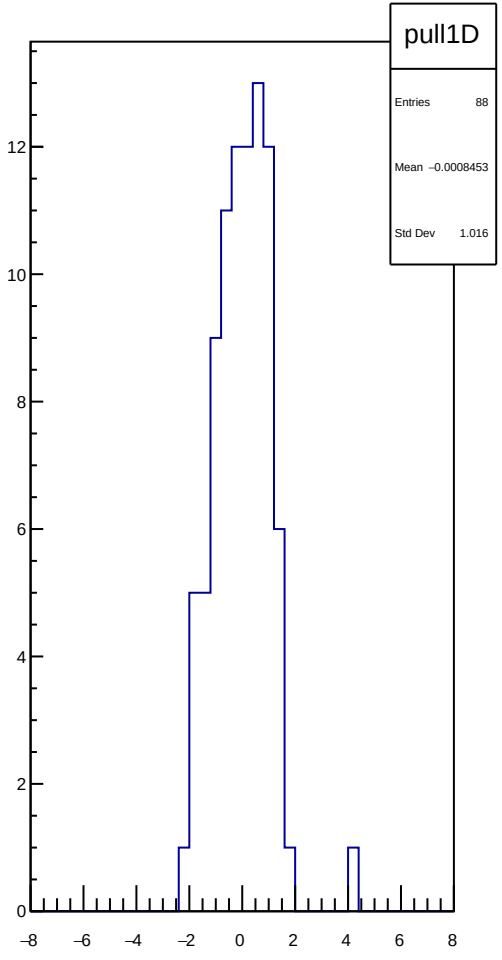

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1240 / 87
p0 2995 ± 2.314
3300
3200
3100
3000
2900
2800

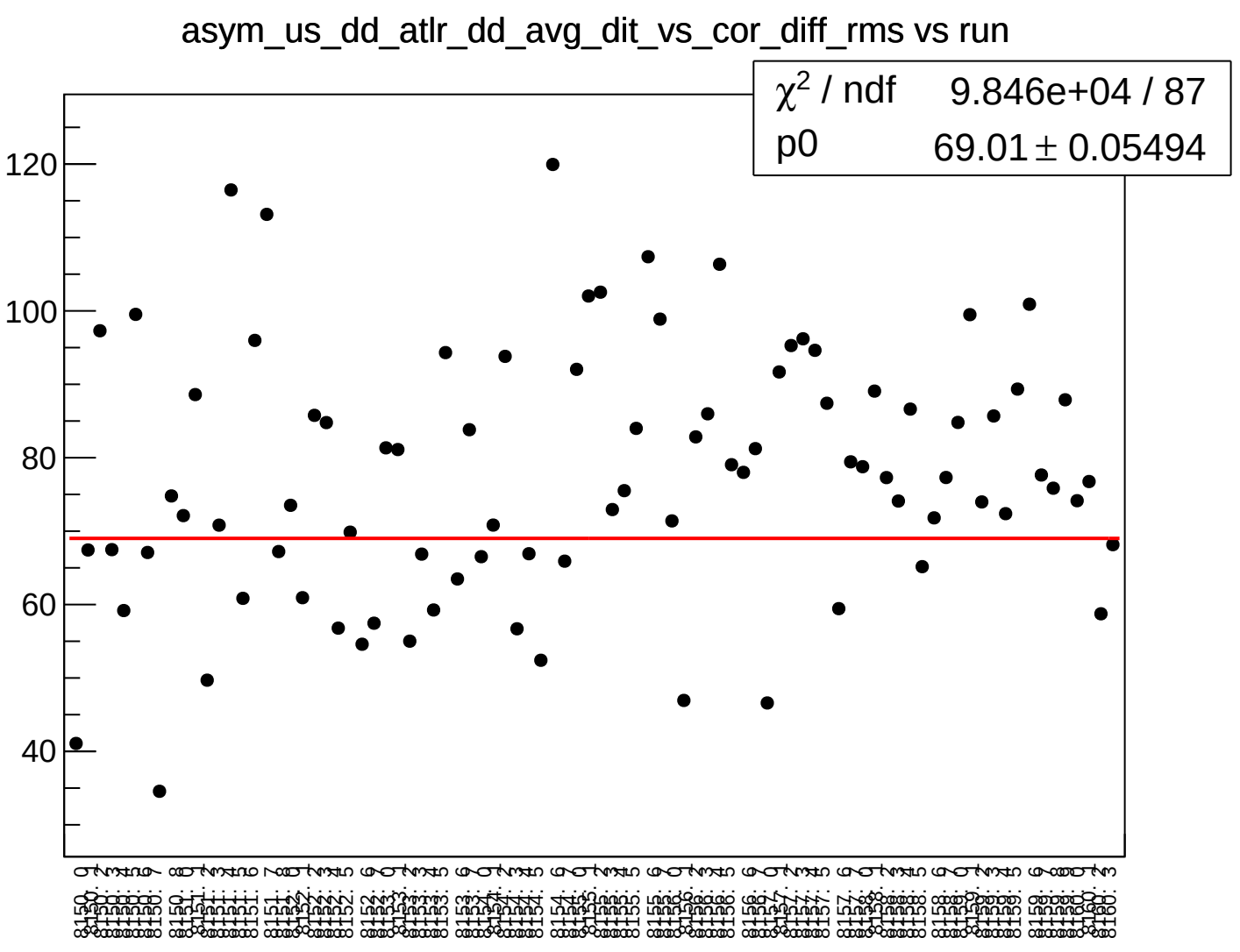

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.64 / 87
p0 1.926e−13 ± 1.282e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 88
Mean −45.53
Std Dev 0
2
1
0
−1
−2

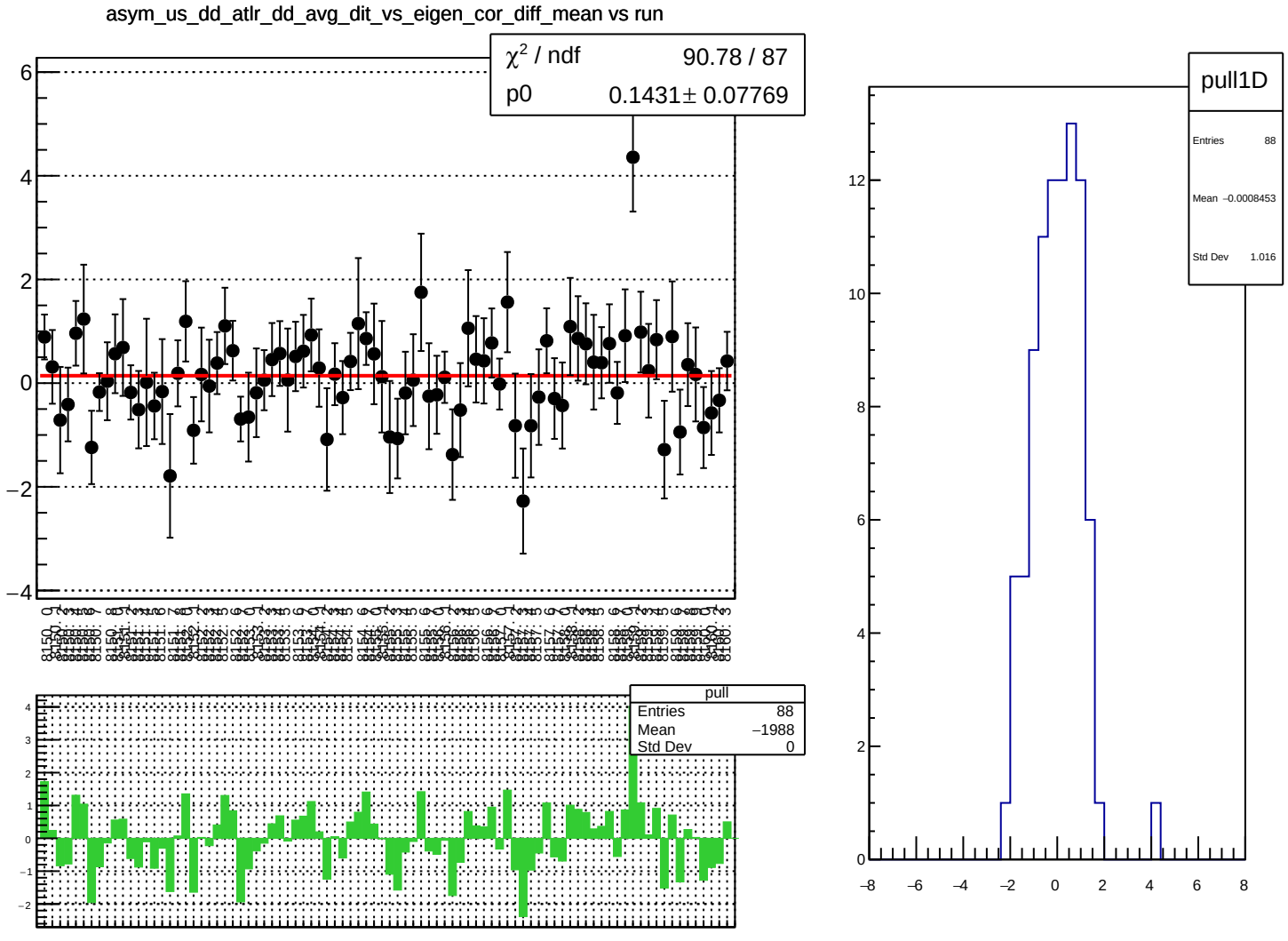

pull1D
Entries 88
Mean −0.03088
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

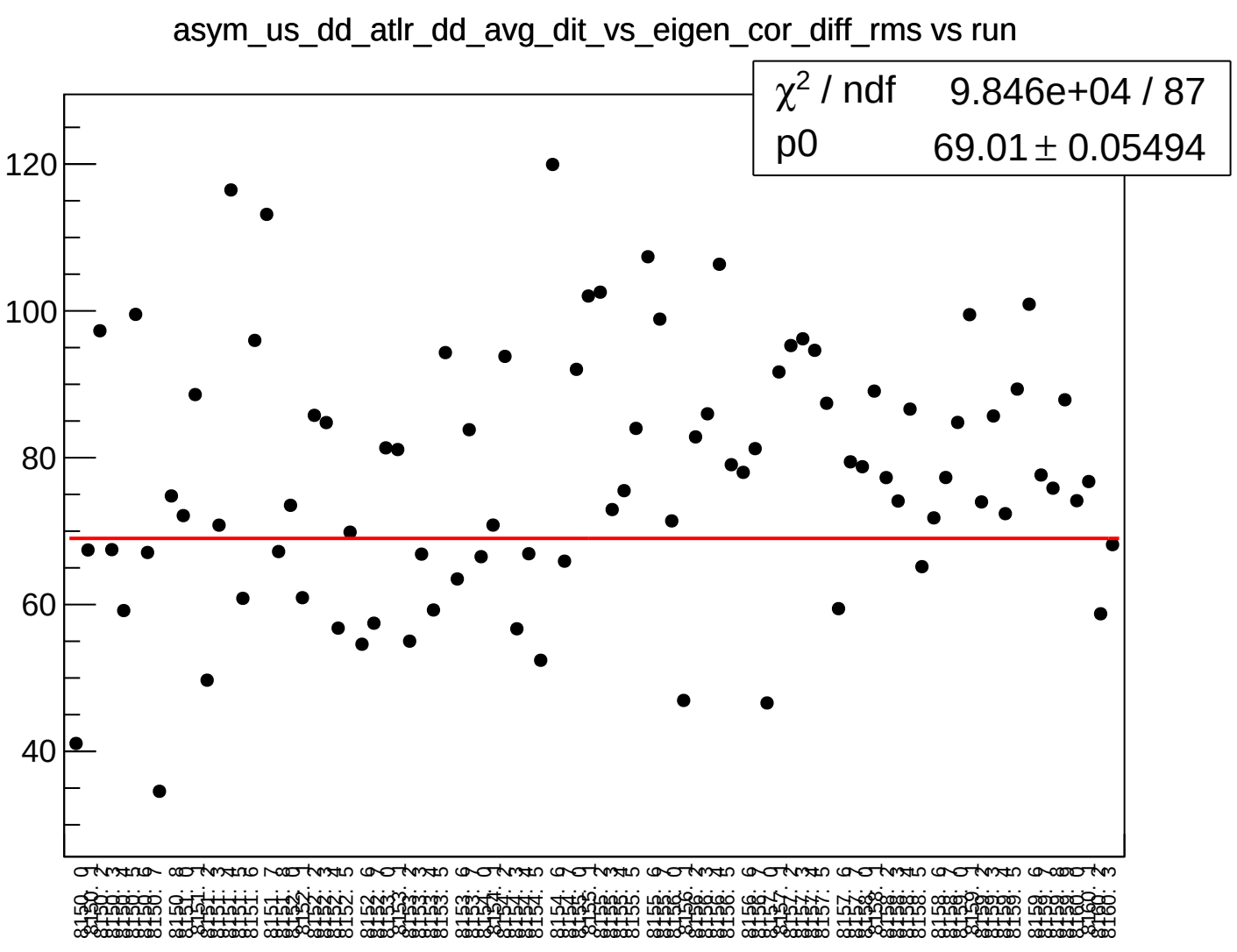

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.135e+06 / 87
p0 6.667e−11 ± 9.062e−14
1
0.8
0.6
0.4
0.2
0

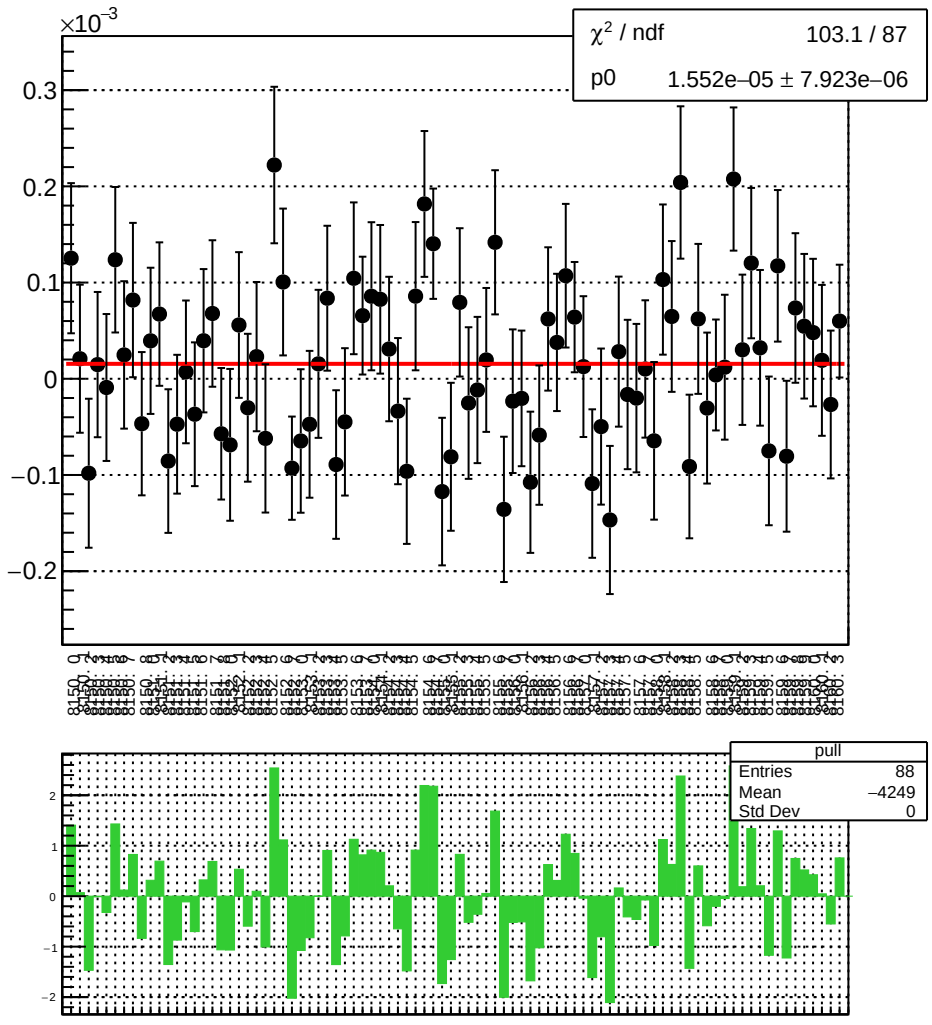

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.78 / 87
p0 0.1431± 0.07769
pull
Entries 88
Mean −1988
Std Dev 0

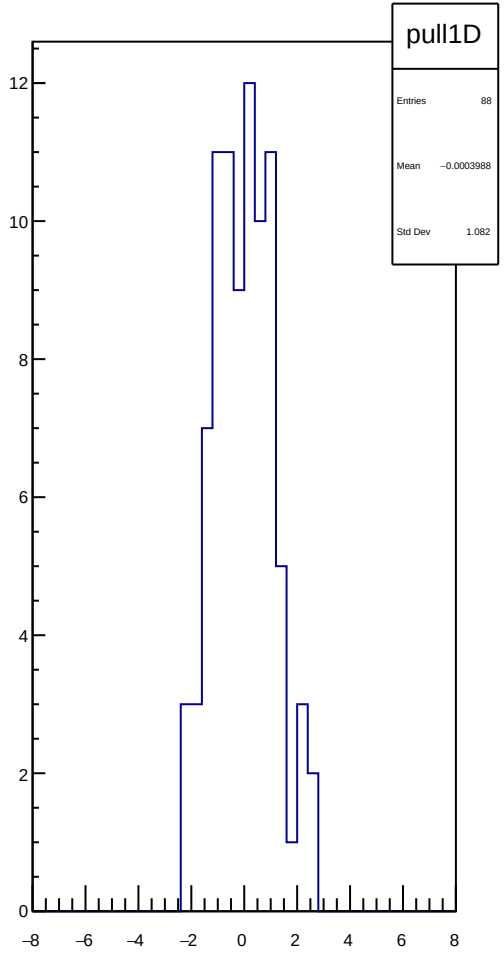

pull1D
Entries 88
Mean −0.0008453
Std Dev 1.016

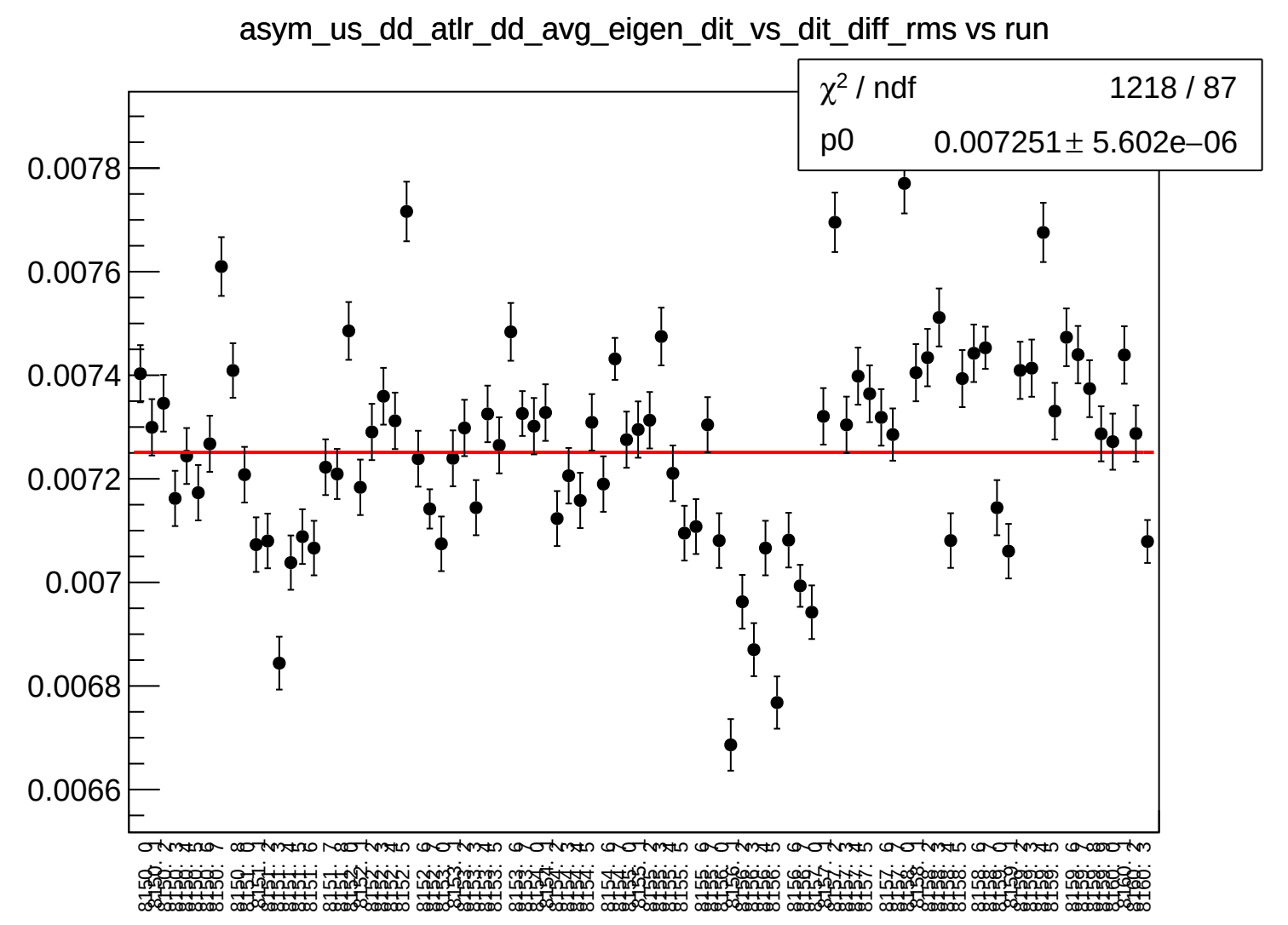

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.846e+04 / 87
p0 69.01 ± 0.05494
120
100
80
60
40

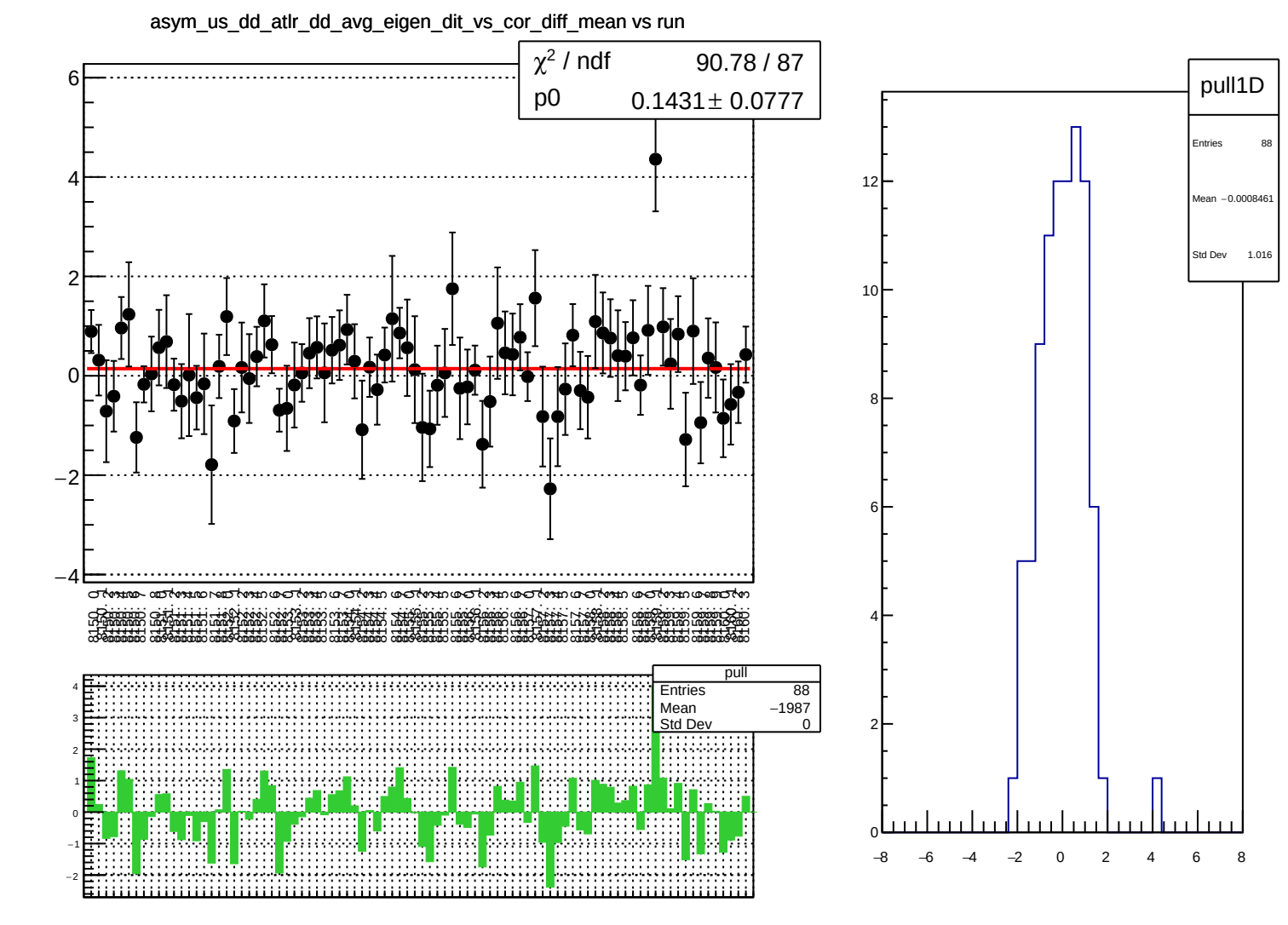

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.78 / 87
p0 0.1431± 0.07769
pull
Entries 88
Mean −1988
Std Dev 0
pull1D
Entries 88
Mean −0.0008453
Std Dev 1.016

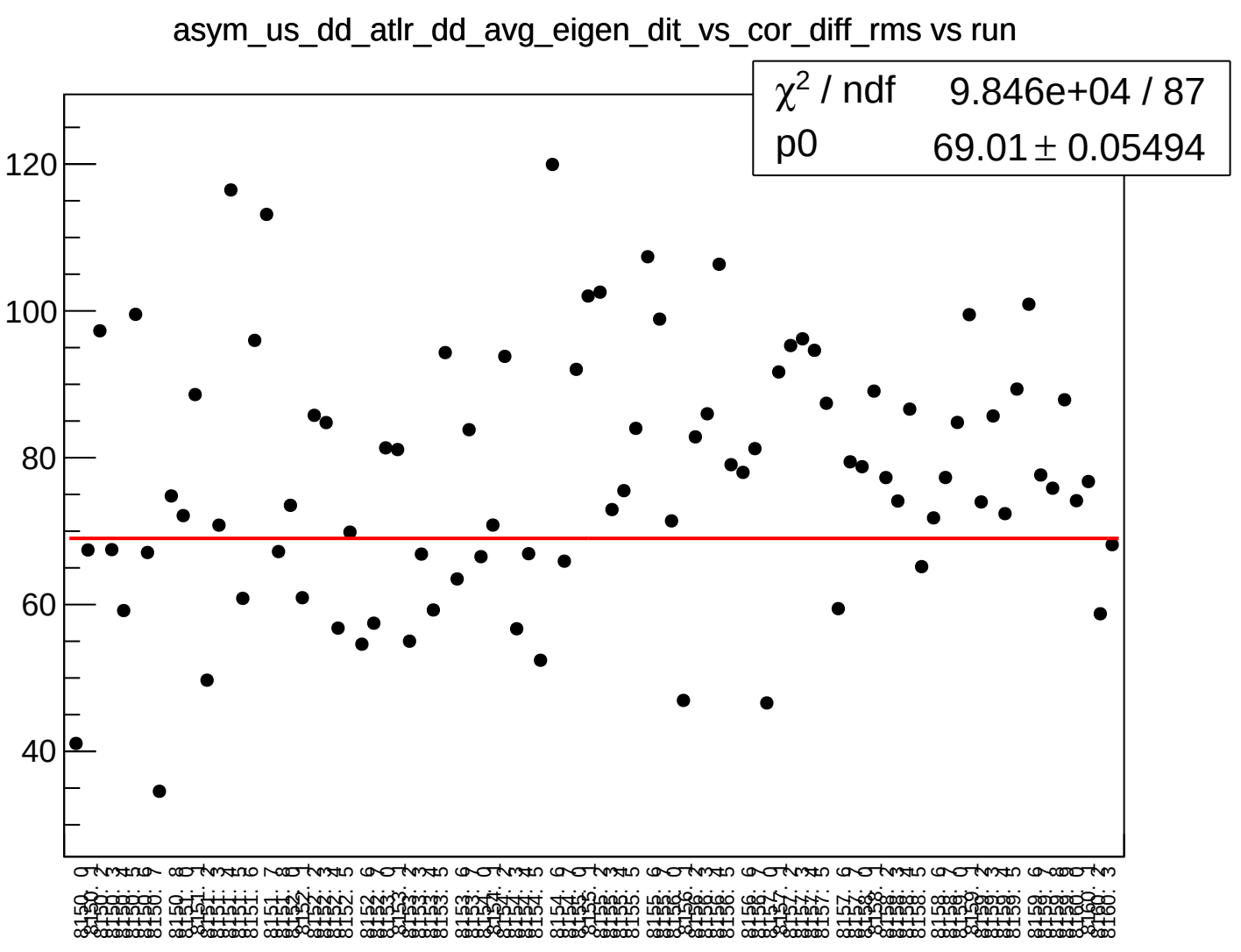

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.846e+04 / 87
p0 69.01 ± 0.05494
120
100
80
60
40

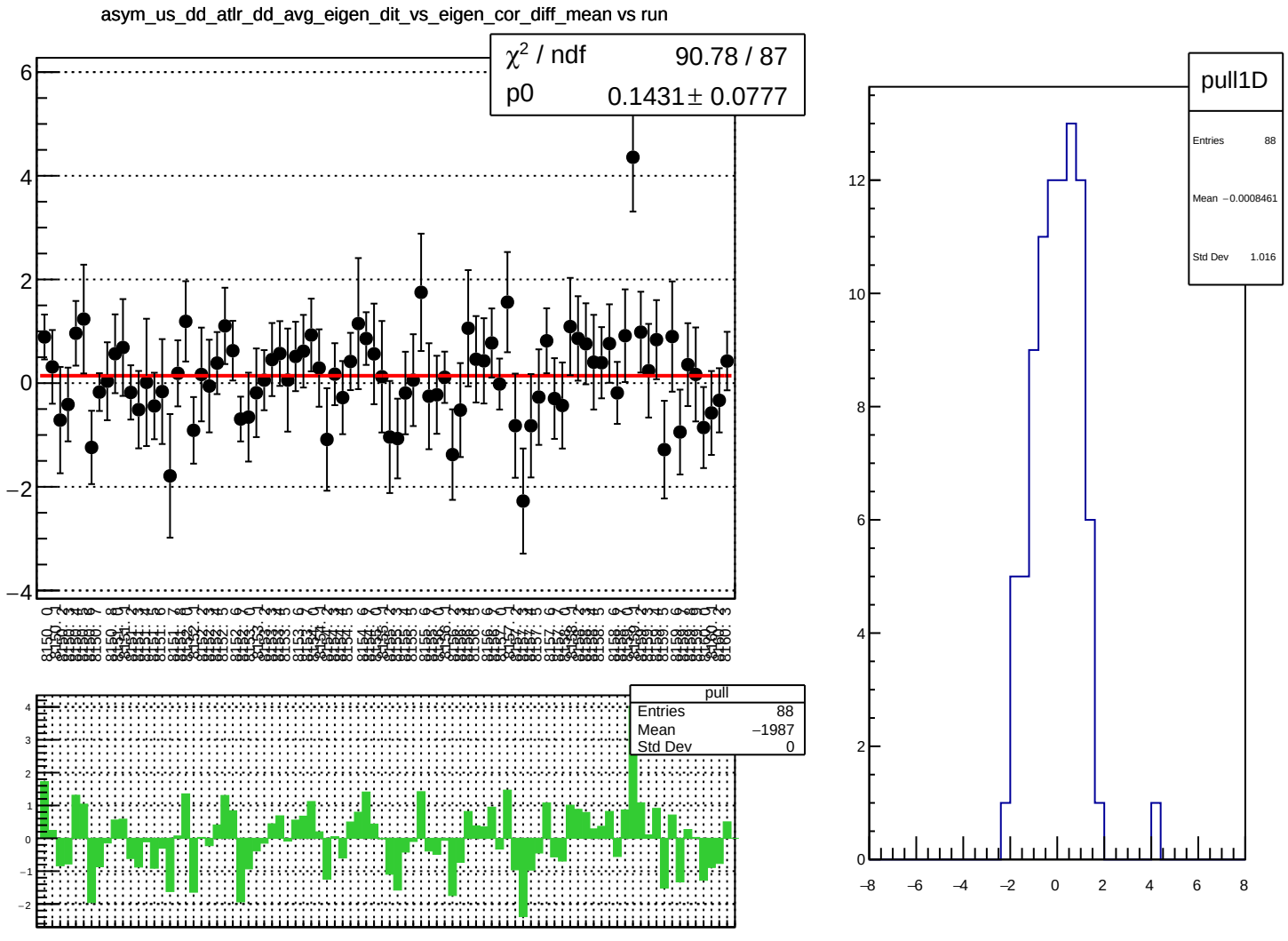

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.1 / 87
p0 1.552e−05 ± 7.923e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean −4249
Std Dev 0
2
1
0
−1
−2

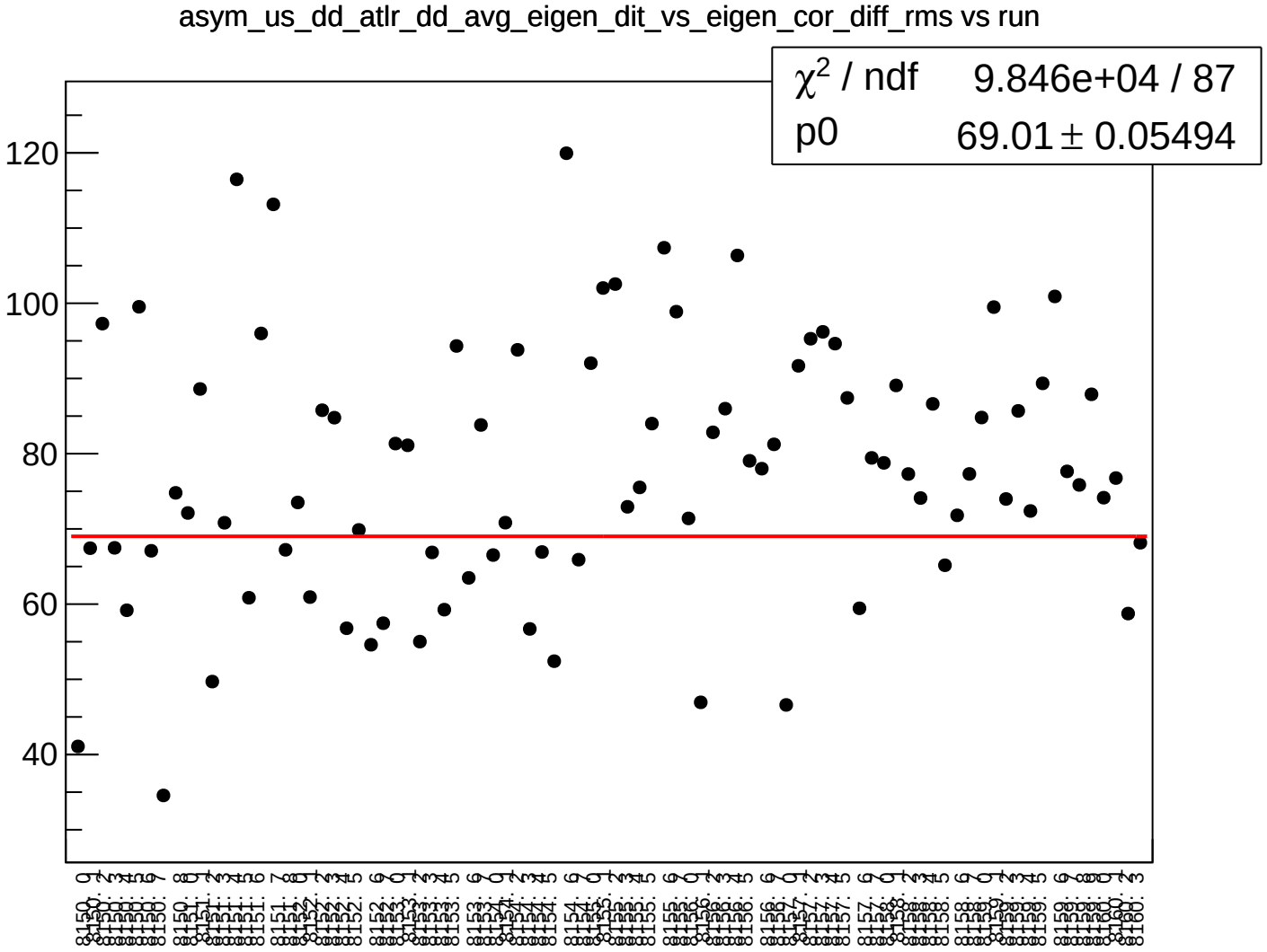

pull1D
Entries 88
Mean −0.0003988
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

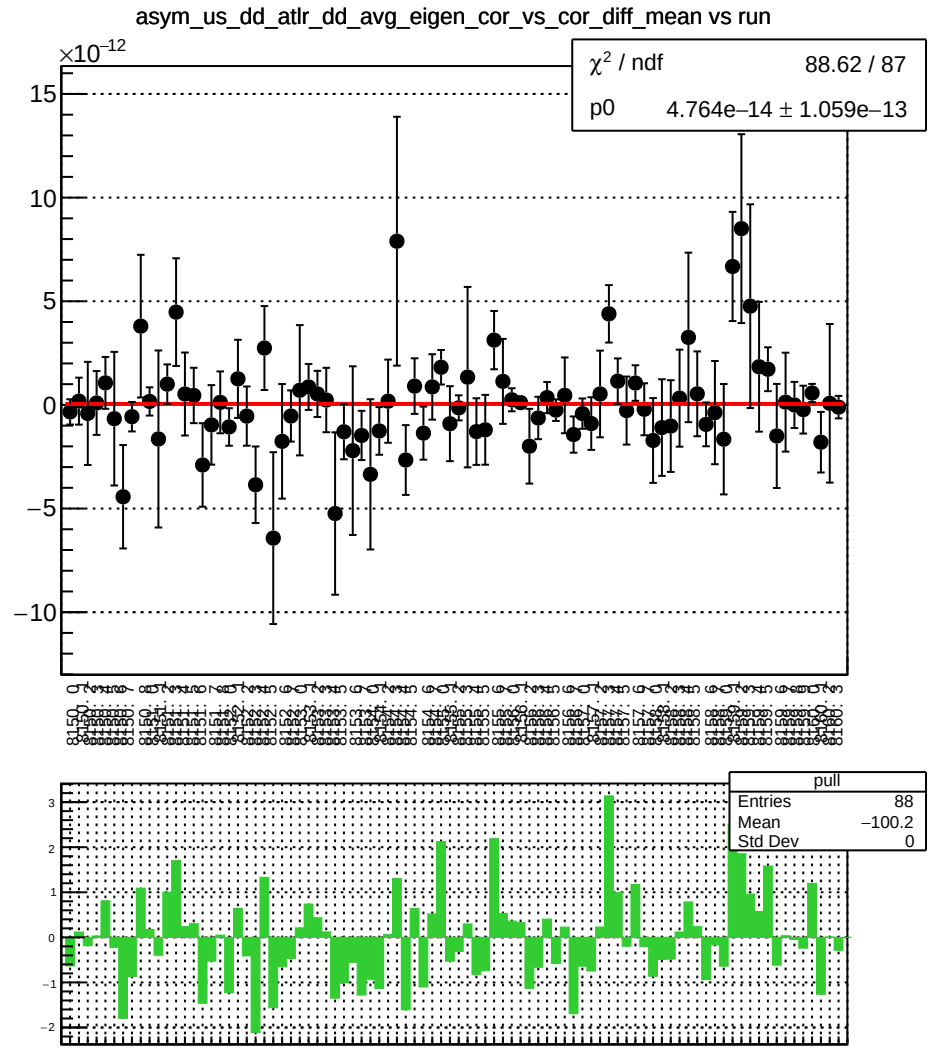

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1218 / 87
p0 0.007251 ± 5.602e−06
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066

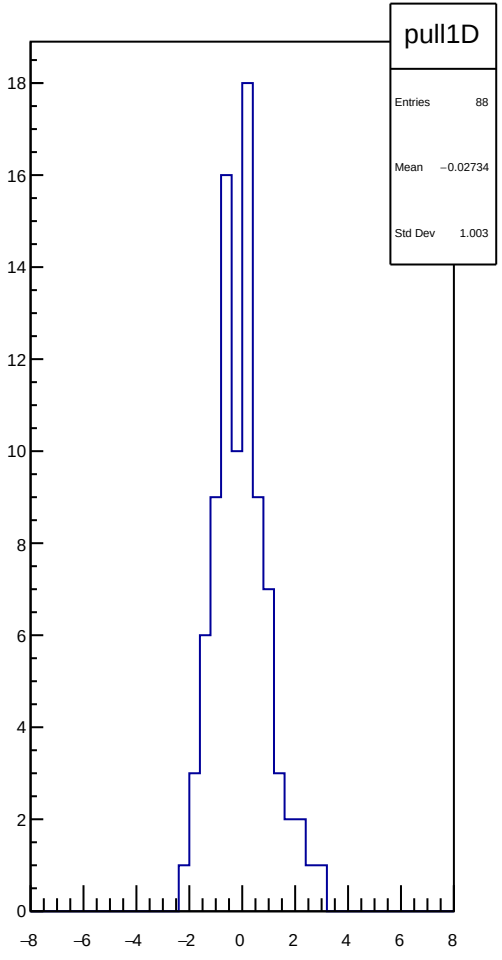

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.78 / 87
p0 0.1431± 0.0777
pull
Entries 88
Mean −1987
Std Dev 0
pull1D
Entries 88
Mean −0.0008461
Std Dev 1.016

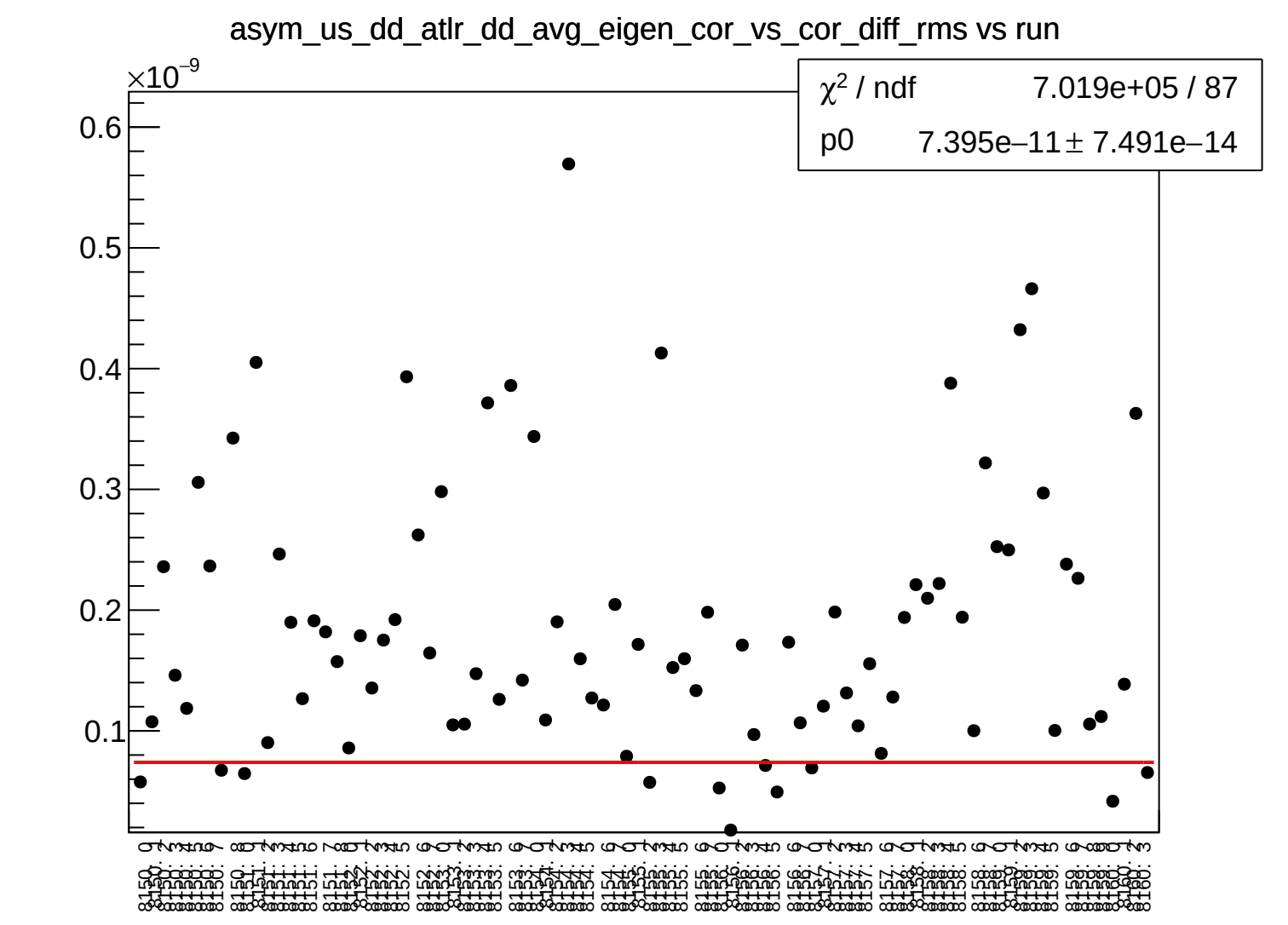

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.846e+04 / 87
p0 69.01 ± 0.05494
120
100
80
60
40

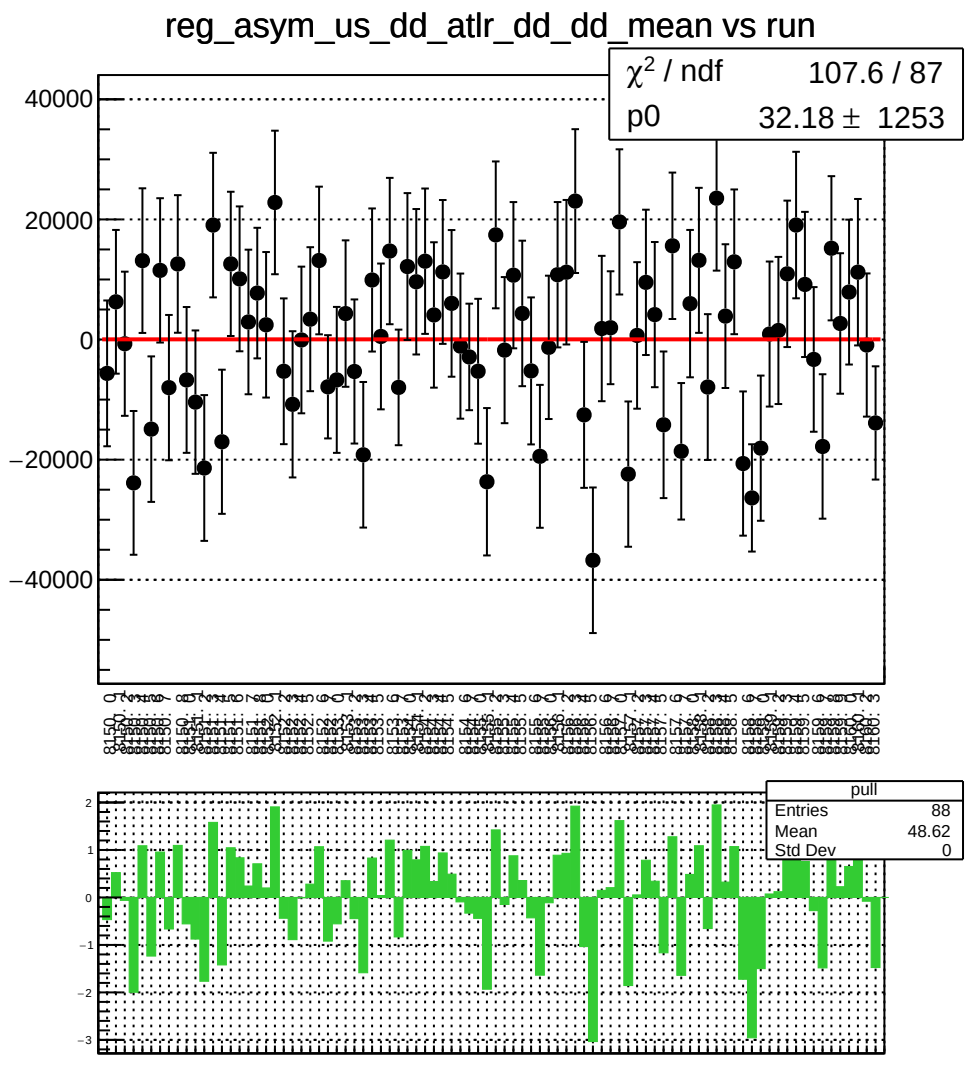

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.78 / 87
p0 0.1431 ± 0.0777
pull
Entries 88
Mean −1987
Std Dev 0
pull1D
Entries 88
Mean −0.0008461
Std Dev 1.016

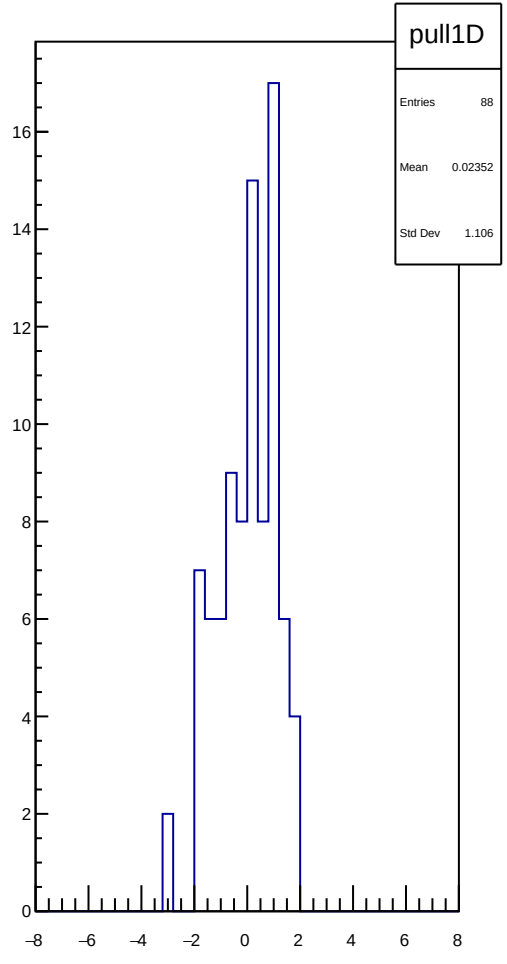

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.846e+04 / 87
p0 69.01 ± 0.05494
120
100
80
60
40

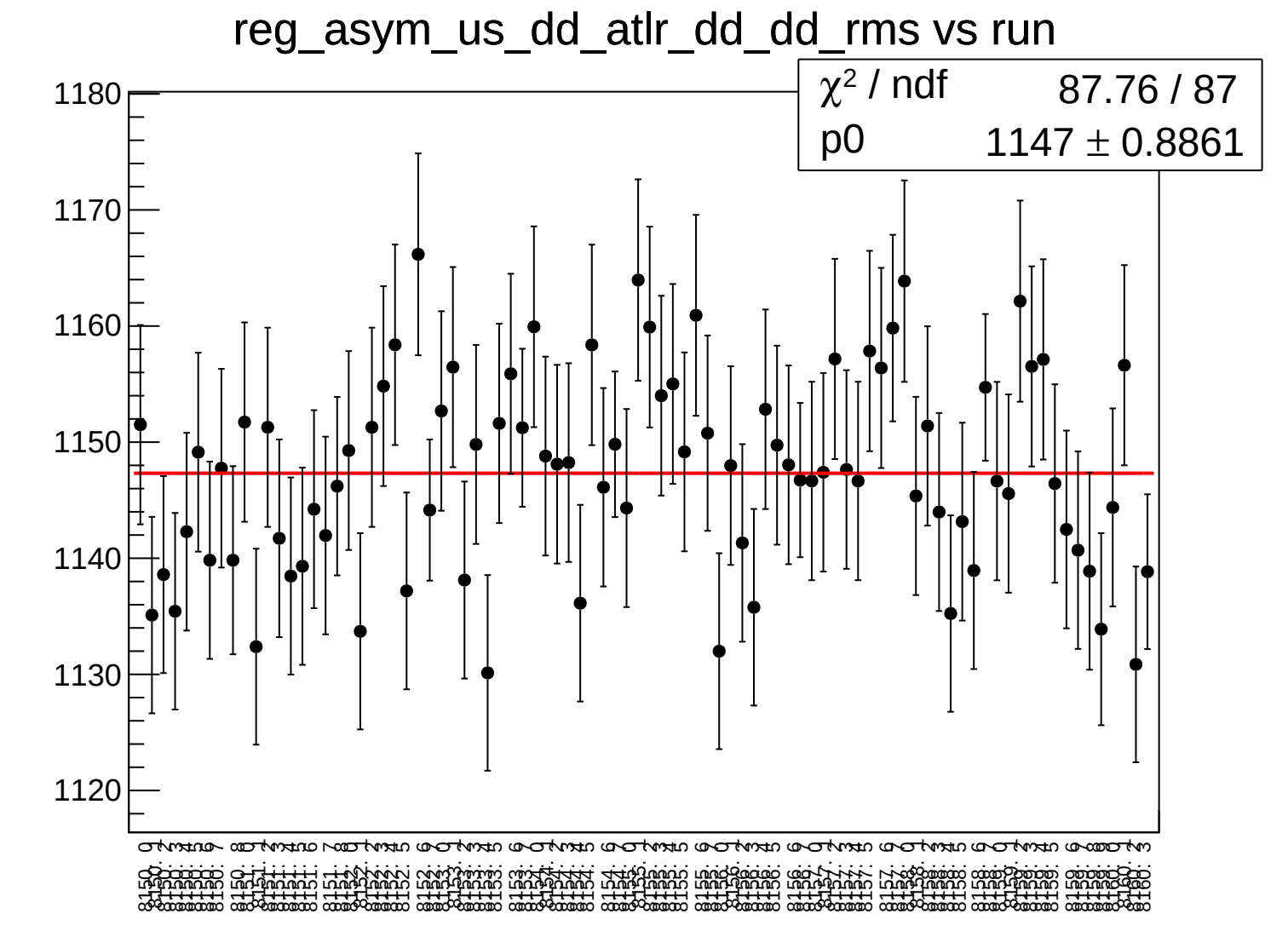

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.62 / 87
p0 4.764e−14 ± 1.059e−13
pull
Entries 88
Mean −100.2
Std Dev 0

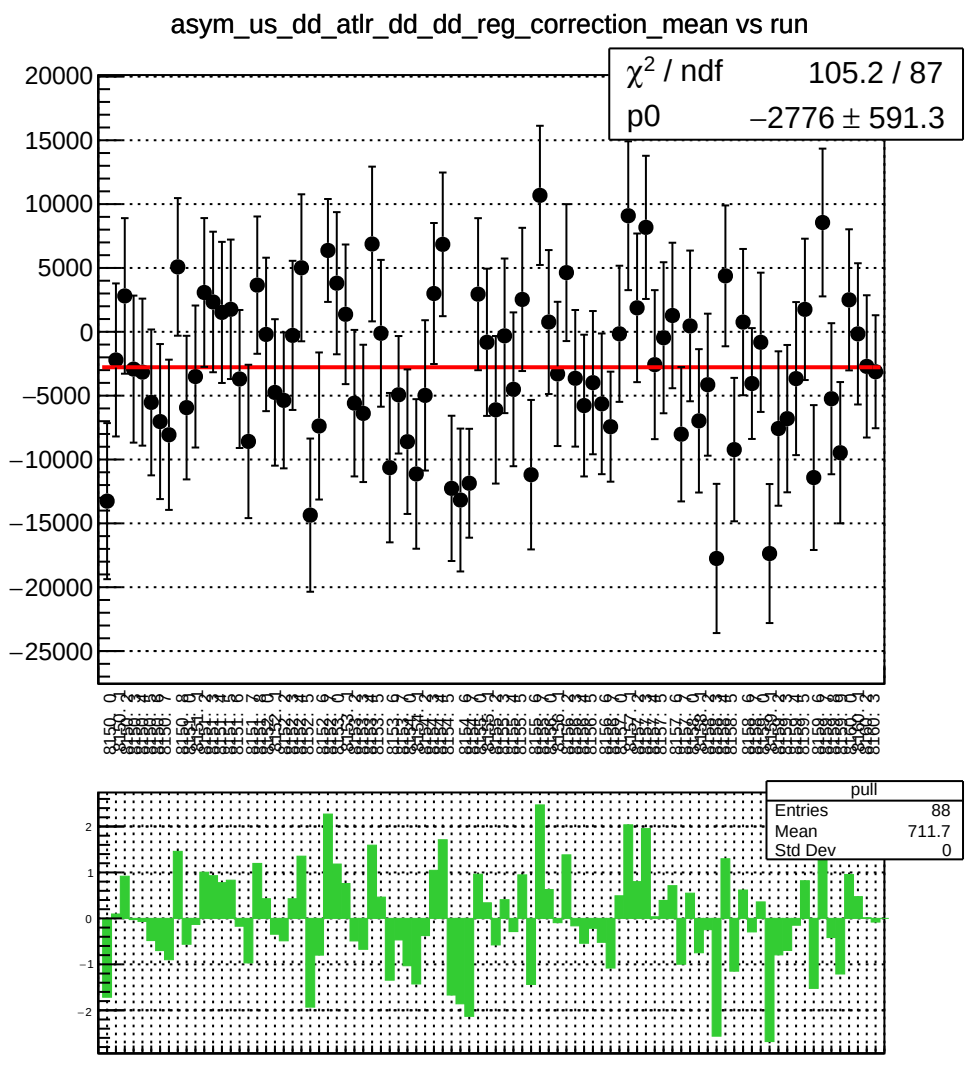

pull1D
Entries 88
Mean −0.02734
Std Dev 1.003

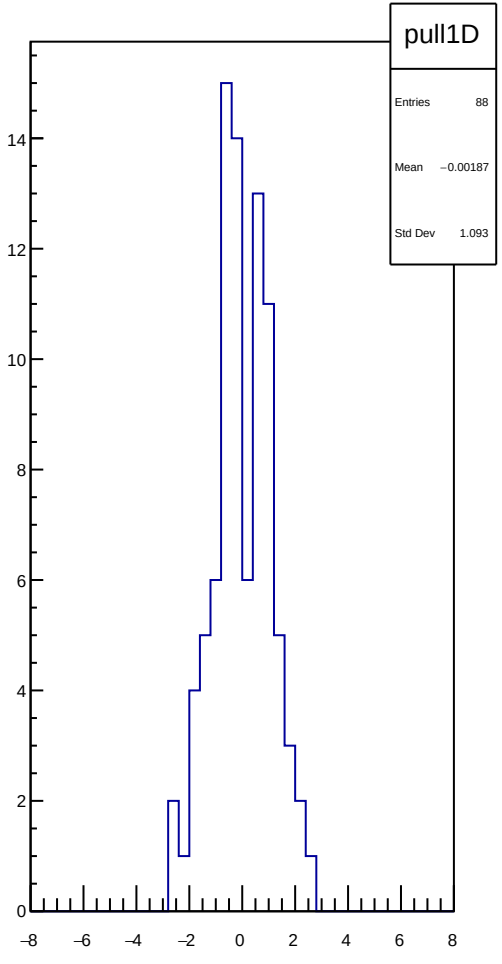

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.019e+05 / 87
p0 7.395e−11 ± 7.491e−14
0.6
0.5
0.4
0.3
0.2
0.1

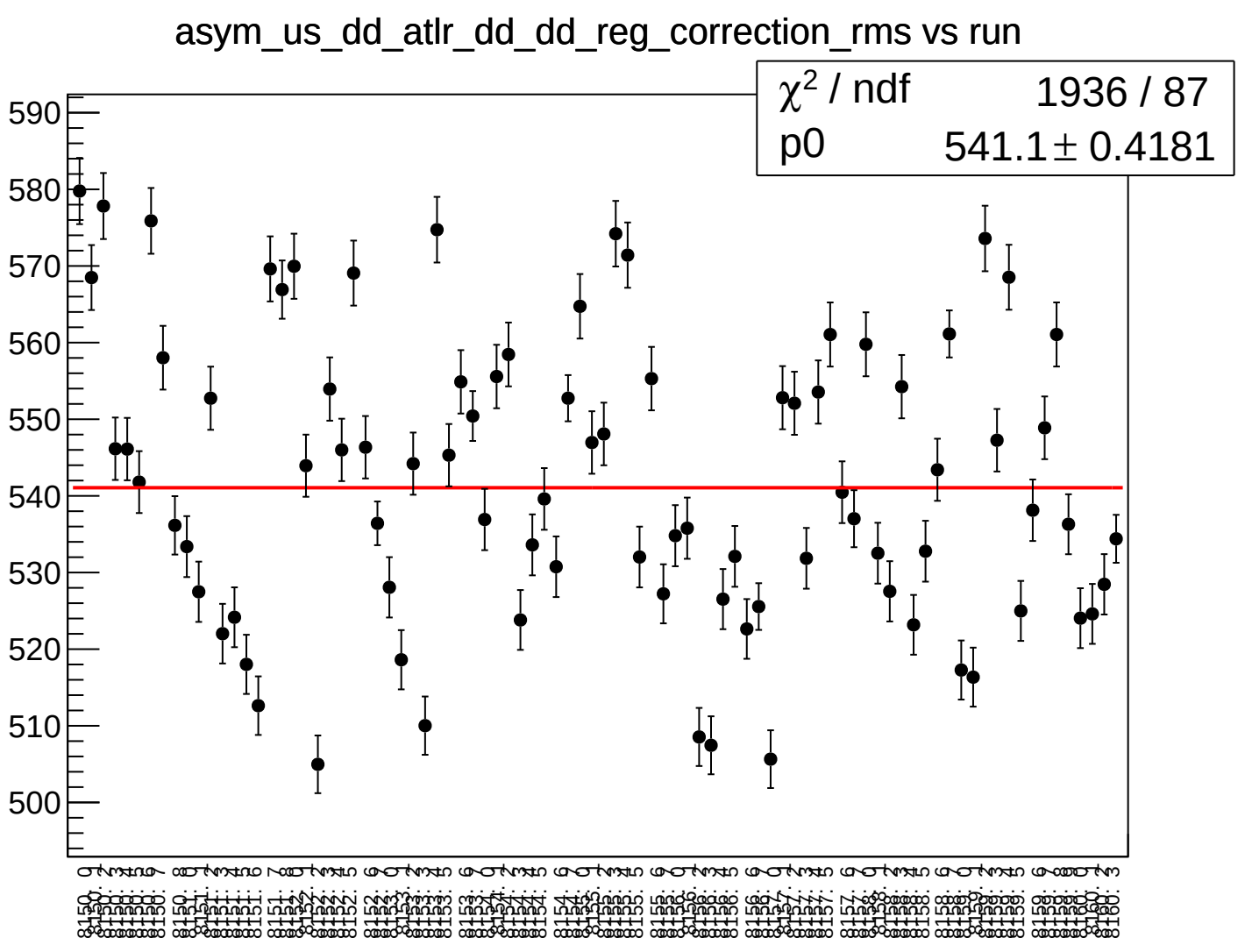

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 107.6 / 87
p0 32.18 ± 1253
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 48.62
Std Dev 0
2
1
0
−1
−2
−3

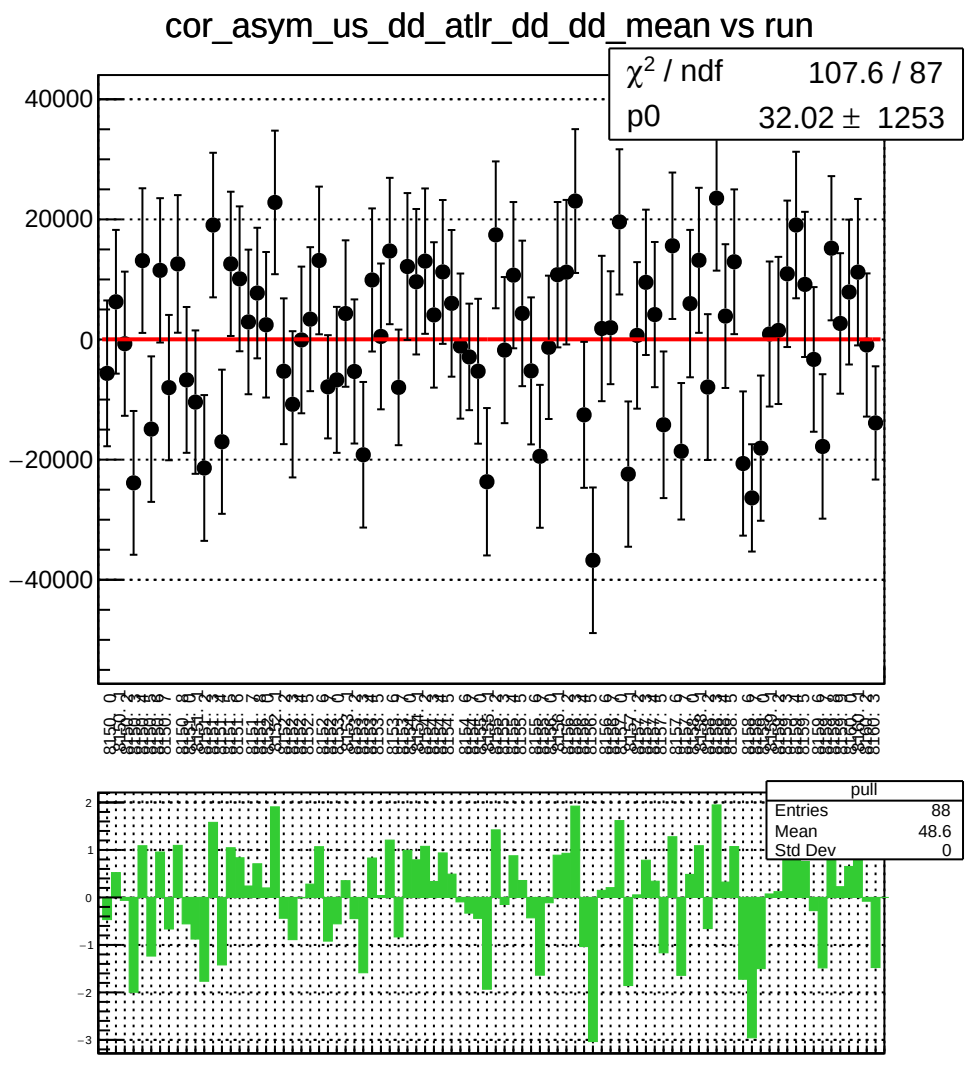

pull1D
Entries 88
Mean 0.02352
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

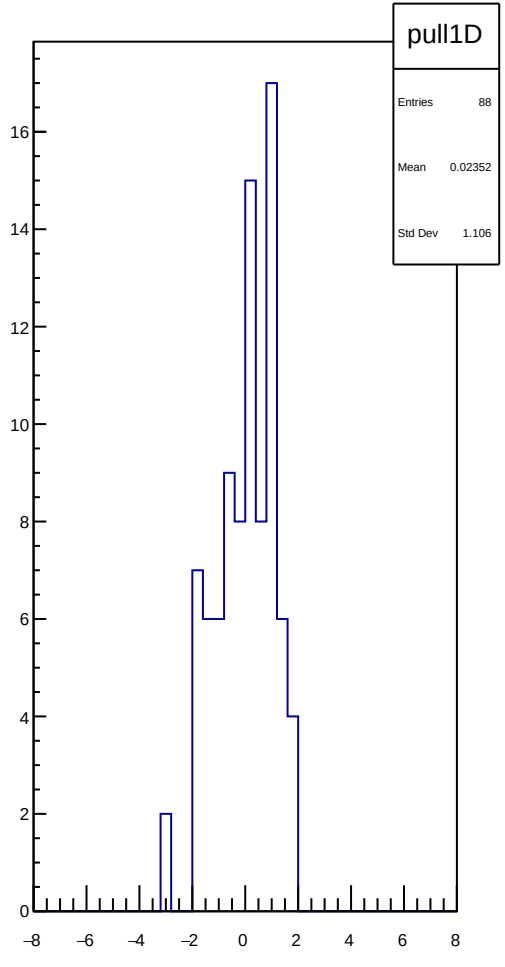

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 87.76 / 87
p0 1147 ± 0.8861
1180
1170
1160
1150
1140
1130
1120

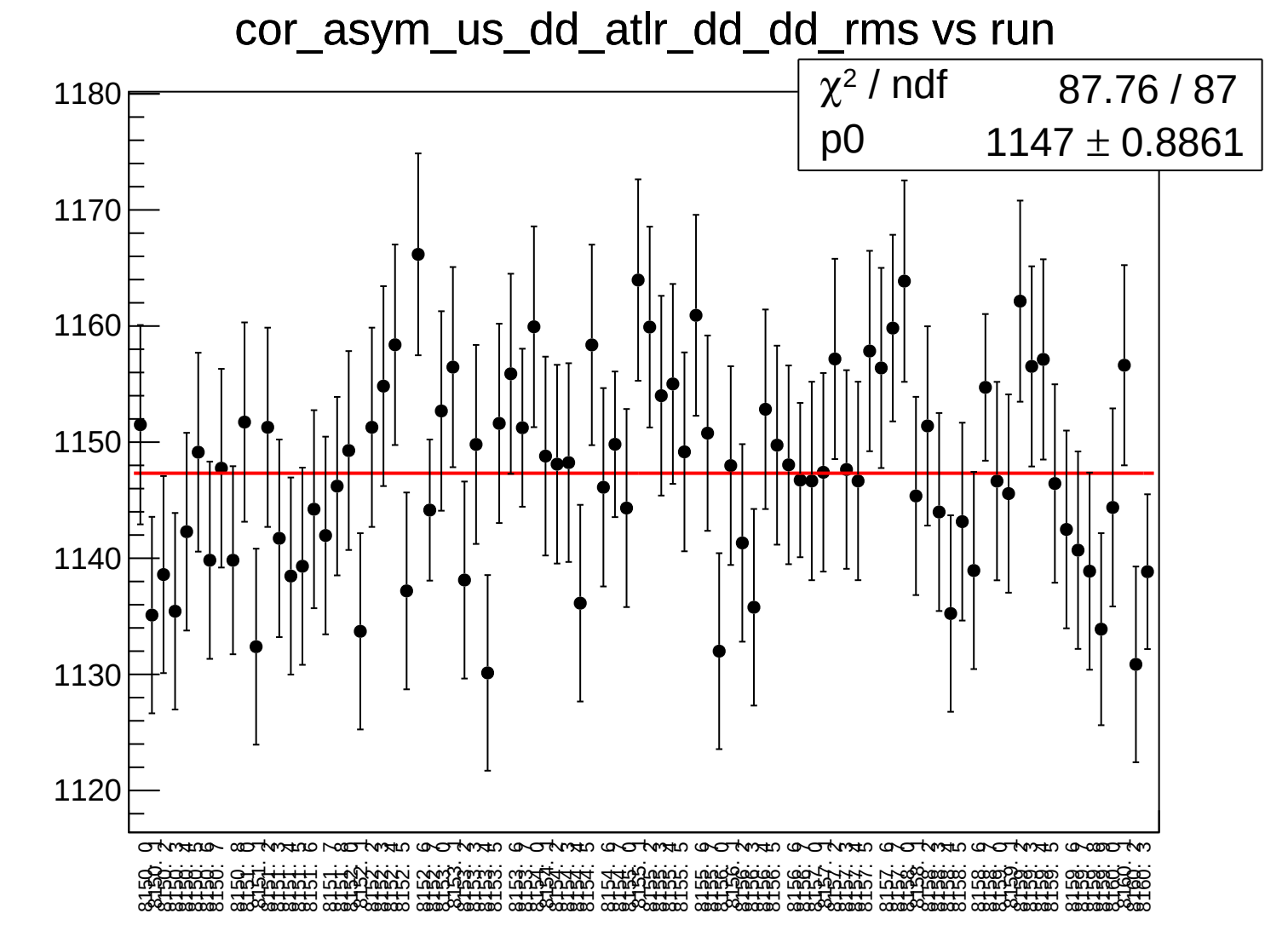

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 105.2 / 87
p0 −2776 ± 591.3
pull
Entries 88
Mean 711.7
Std Dev 0

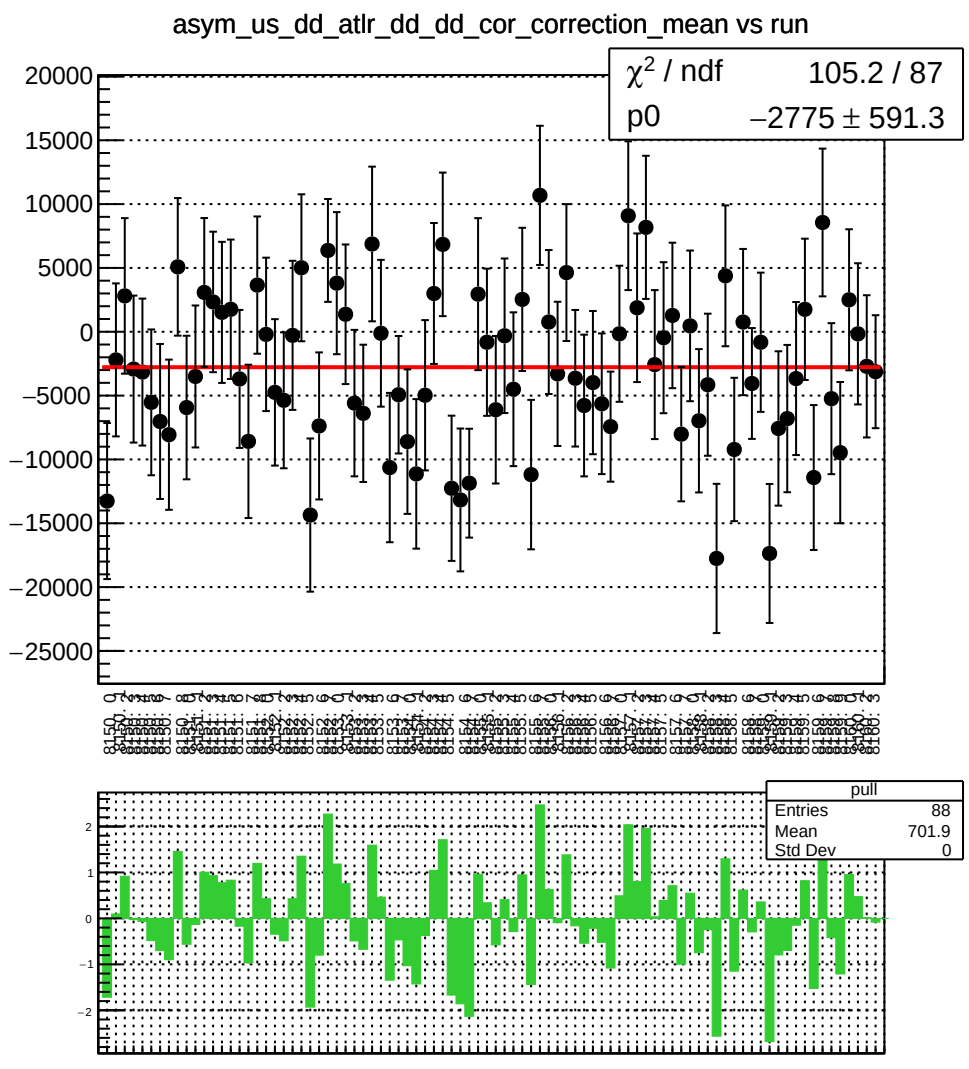

pull1D
Entries 88
Mean −0.00187
Std Dev 1.093

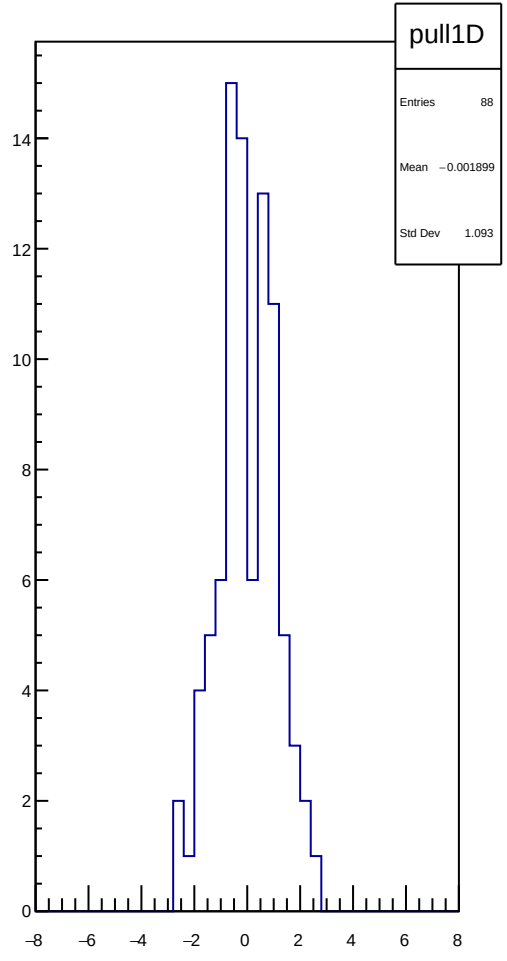

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1936 / 87
p0 541.1 ± 0.4181
590
580
570
560
550
540
530
520
510
500

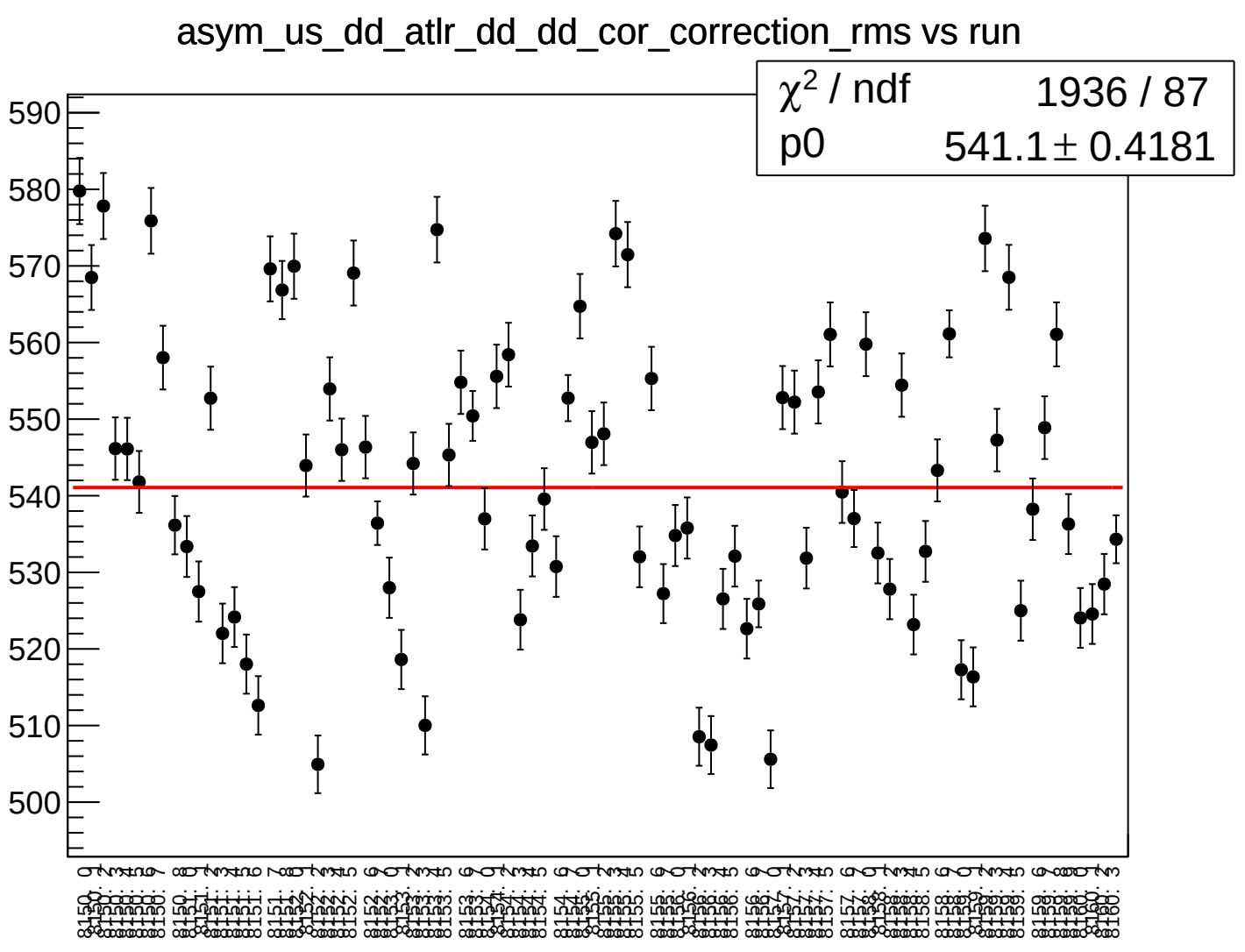

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 107.6 / 87
p0 32.02 ± 1253
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 48.6
Std Dev 0
2
1
0
−1
−2
−3

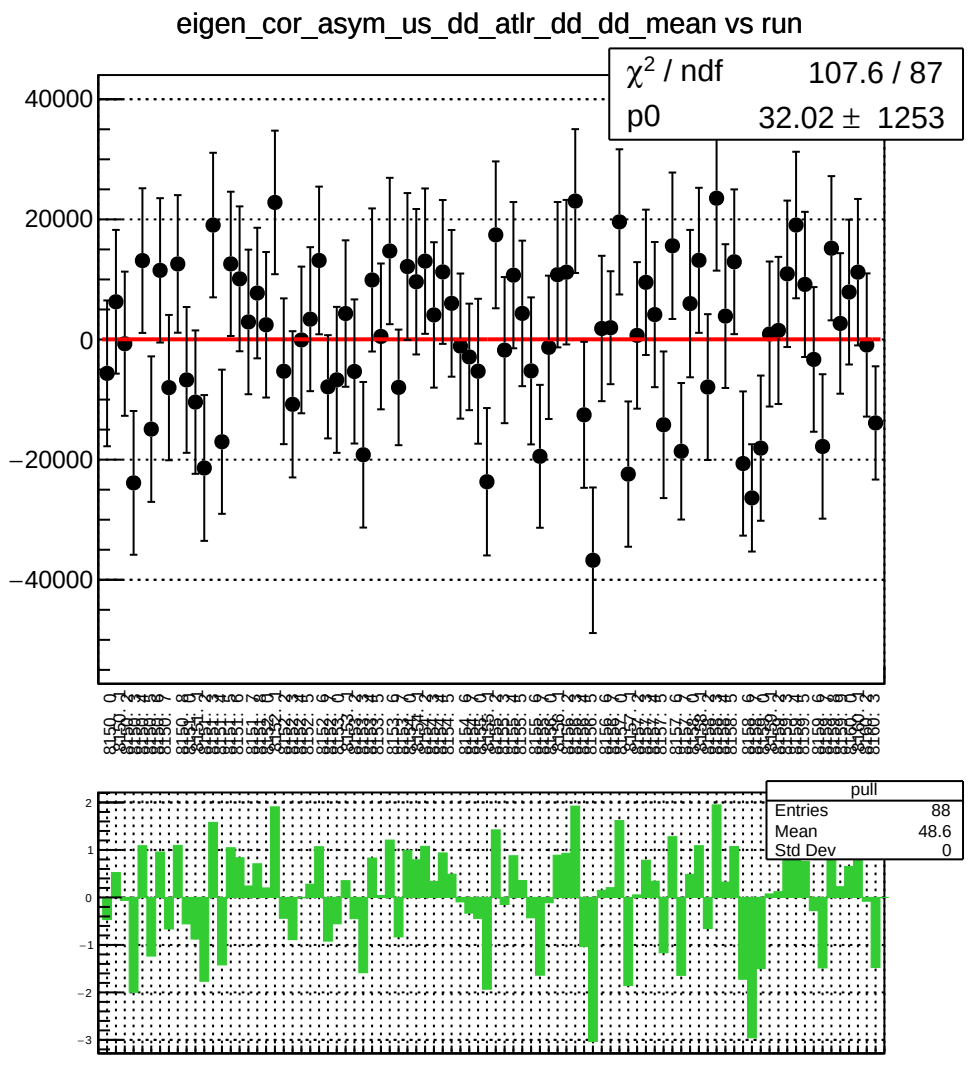

pull1D
Entries 88
Mean 0.02352
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

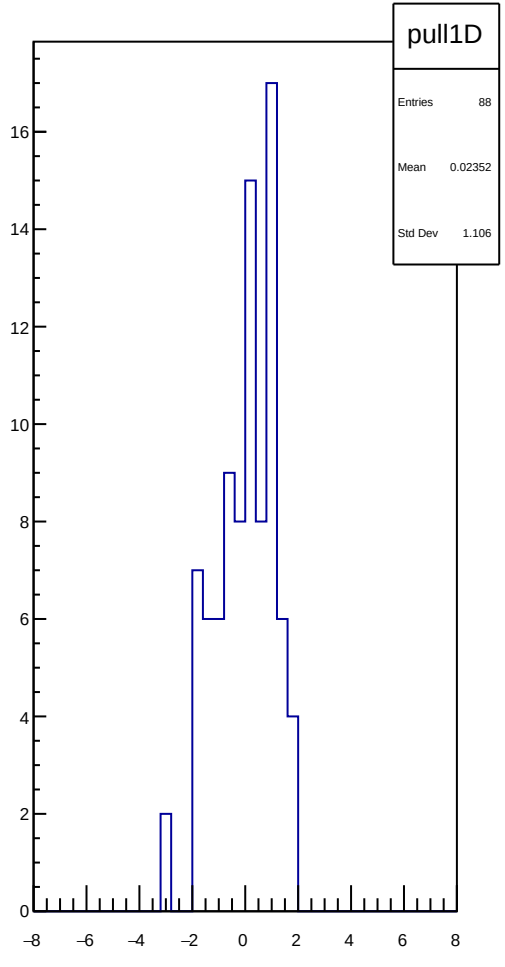

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 87.76 / 87
p0 1147 ± 0.8861
1180
1170
1160
1150
1140
1130
1120

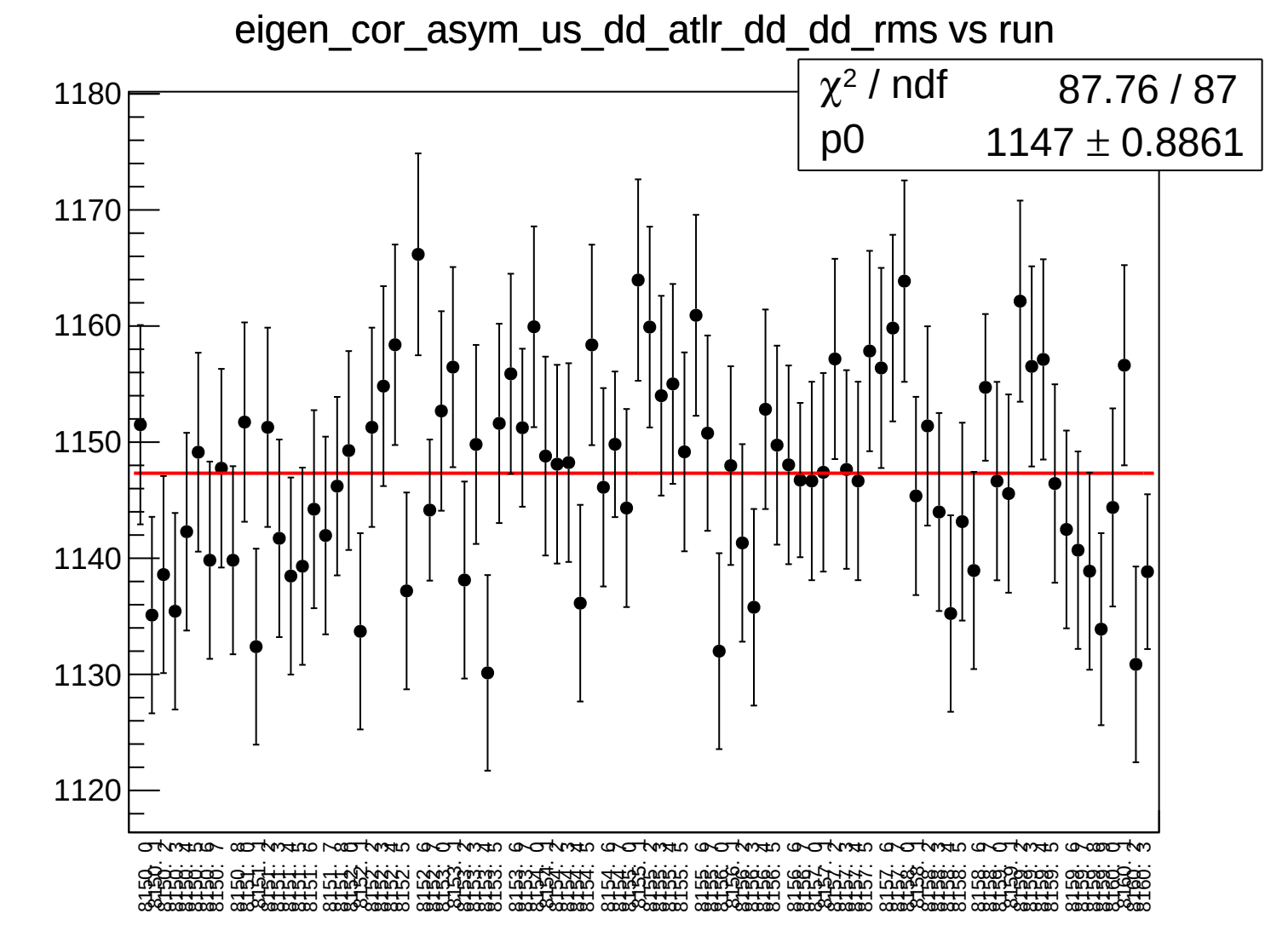

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 105.2 / 87
p0 −2775 ± 591.3
pull
Entries 88
Mean 701.9
Std Dev 0

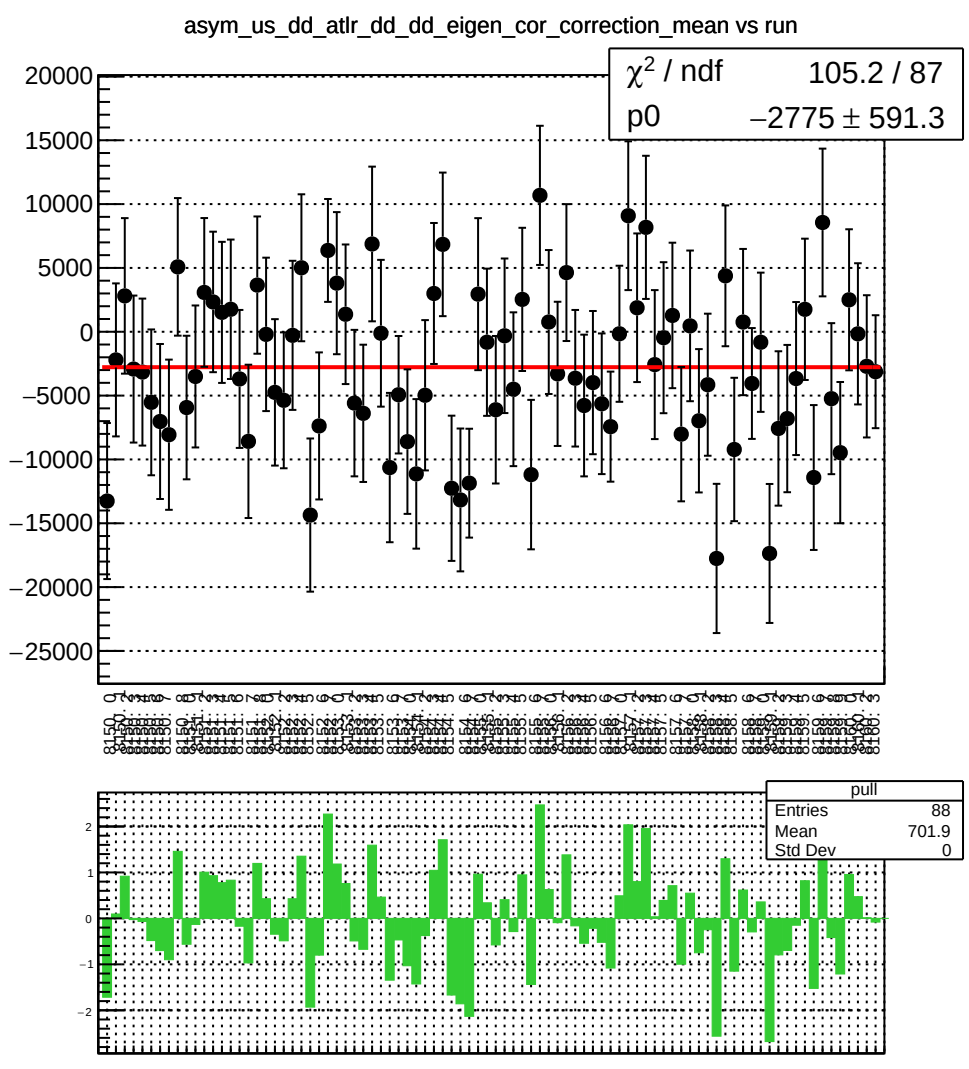

pull1D
Entries 88
Mean −0.001899
Std Dev 1.093

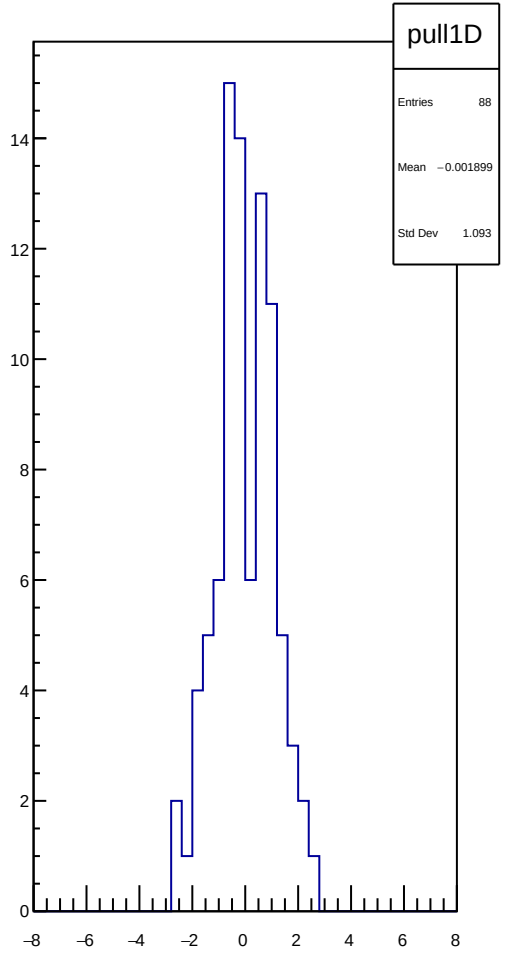

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1936 / 87
p0 541.1 ± 0.4181
590
580
570
560
550
540
530
520
510
500

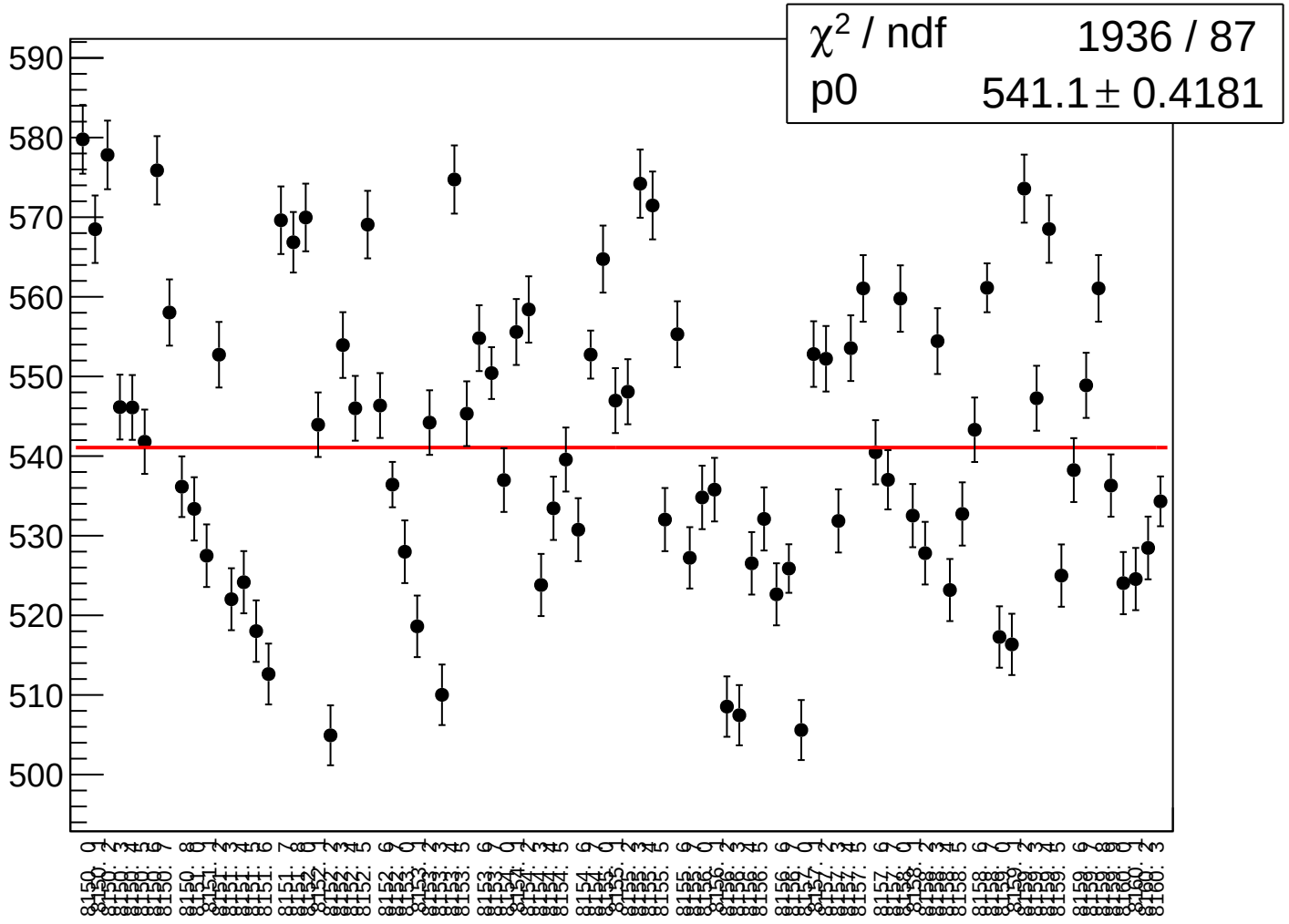

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 107.6 / 87
p0 32.02 ± 1253
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 48.6
Std Dev 0
2
1
0
−1
−2
−3

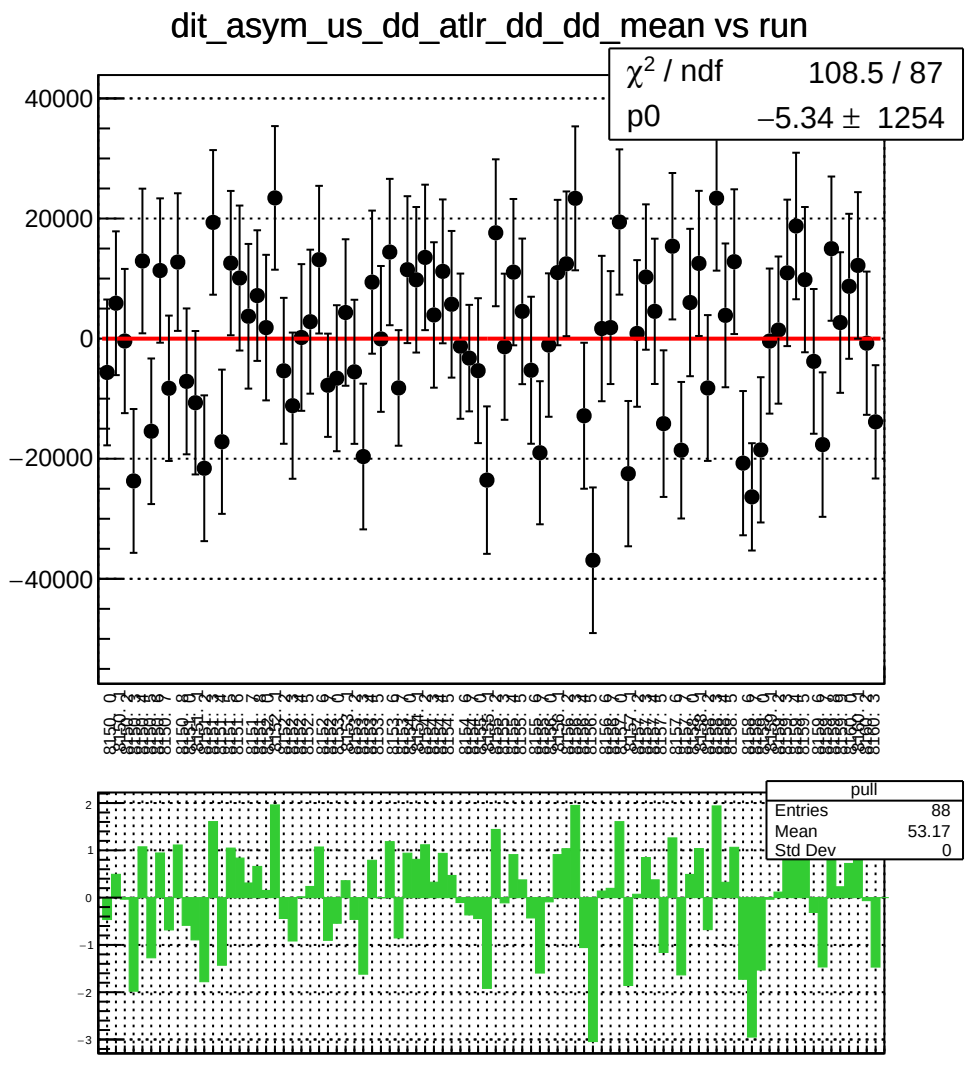

pull1D
Entries 88
Mean 0.02352
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

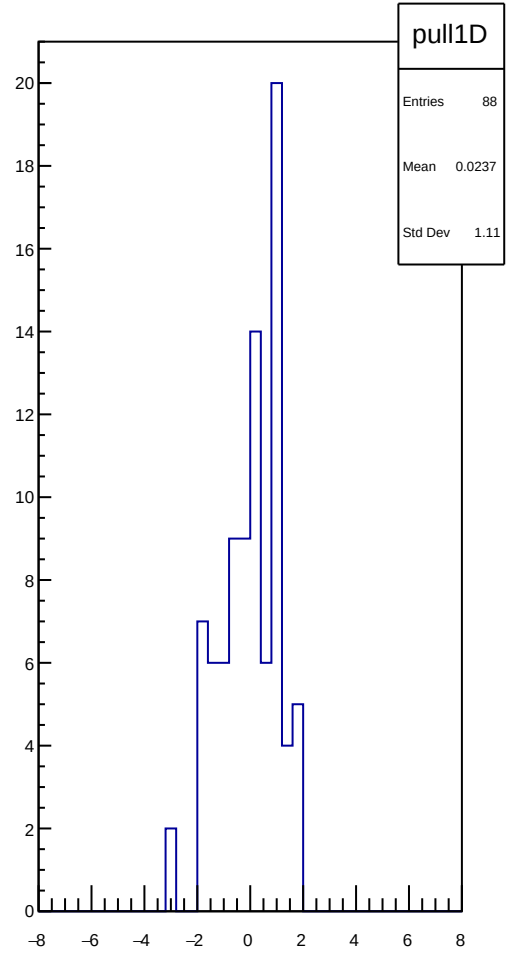

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 87.76 / 87
p0 1147 ± 0.8861
1180
1170
1160
1150
1140
1130
1120

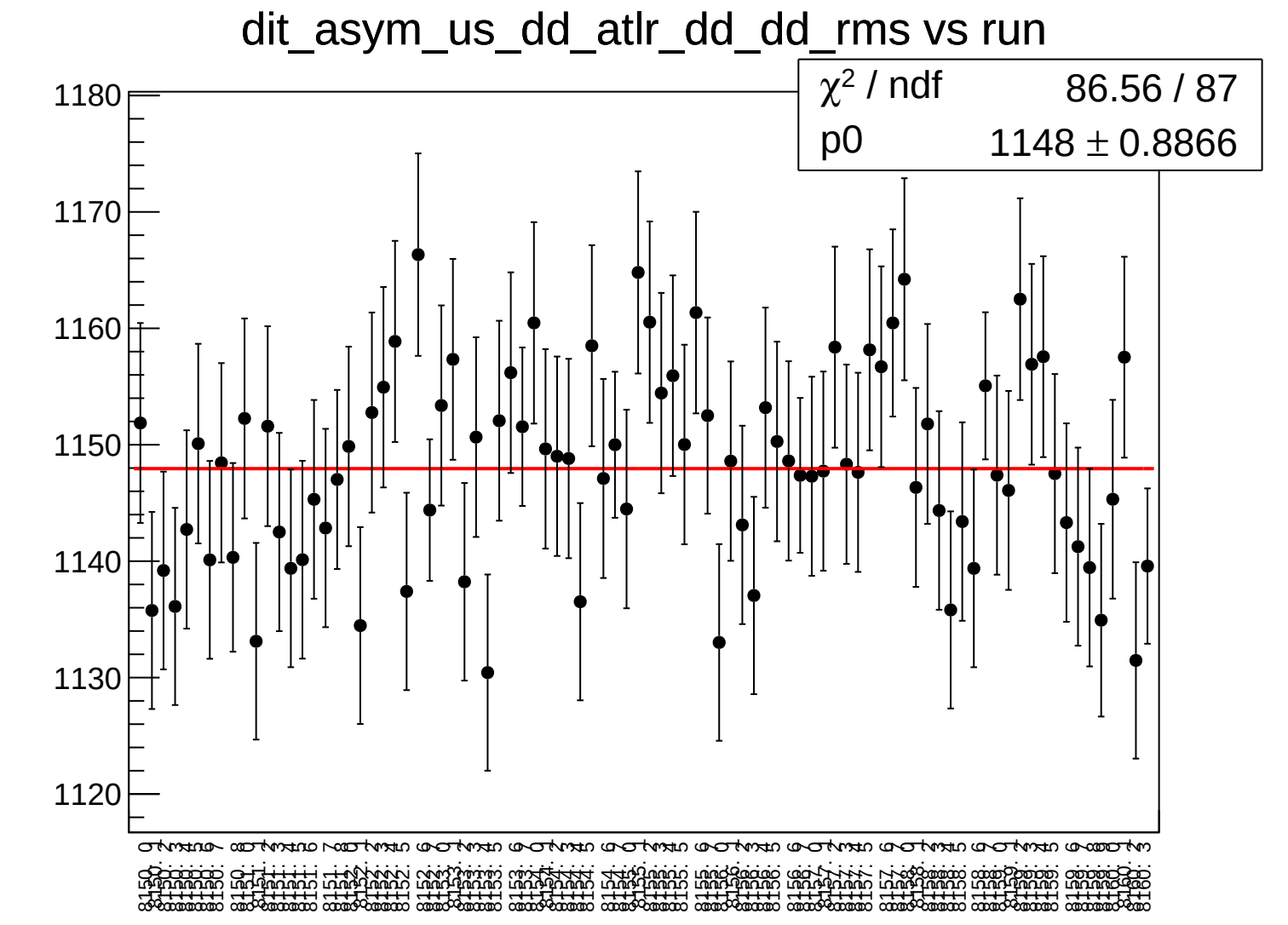

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.2 / 87
p0 −2775 ± 591.3
pull
Entries 88
Mean 701.9
Std Dev 0

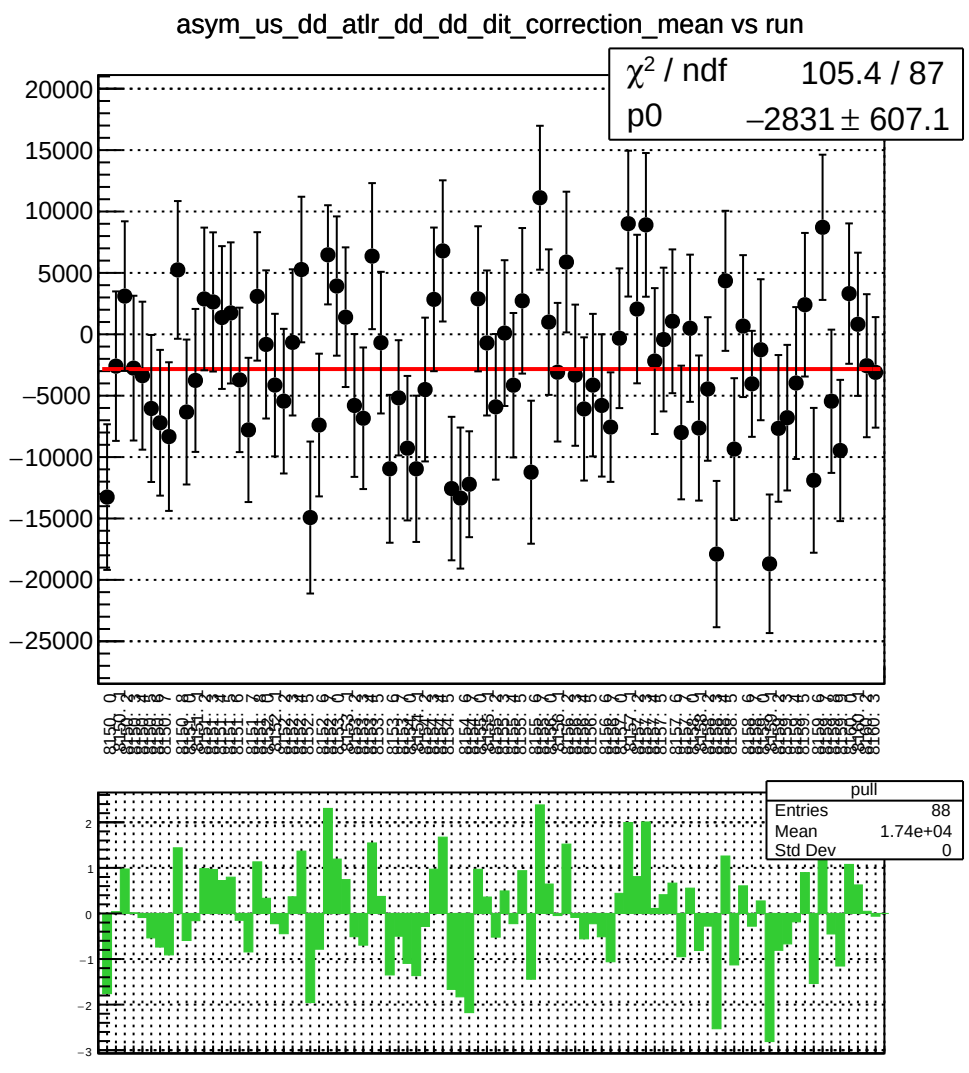

pull1D
Entries 88
Mean −0.001899
Std Dev 1.093

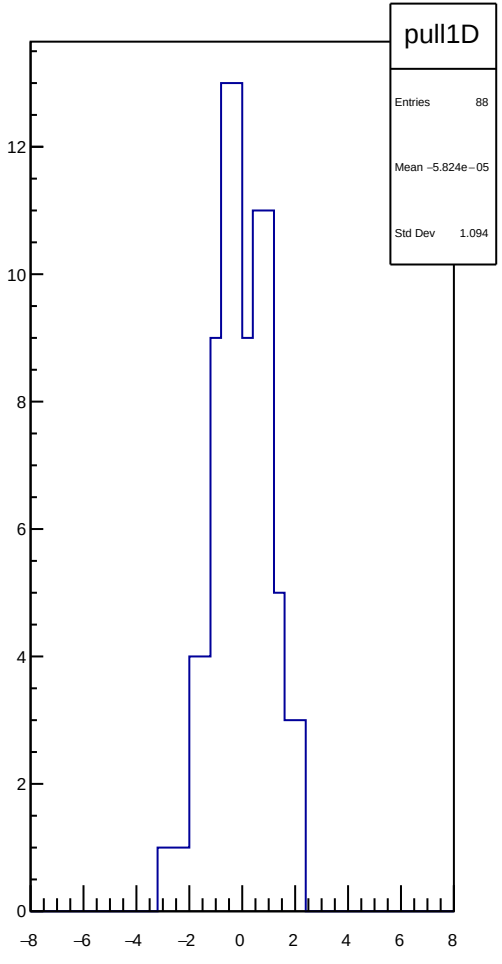

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1936 / 87
p0 541.1 ± 0.4181
590
580
570
560
550
540
530
520
510
500

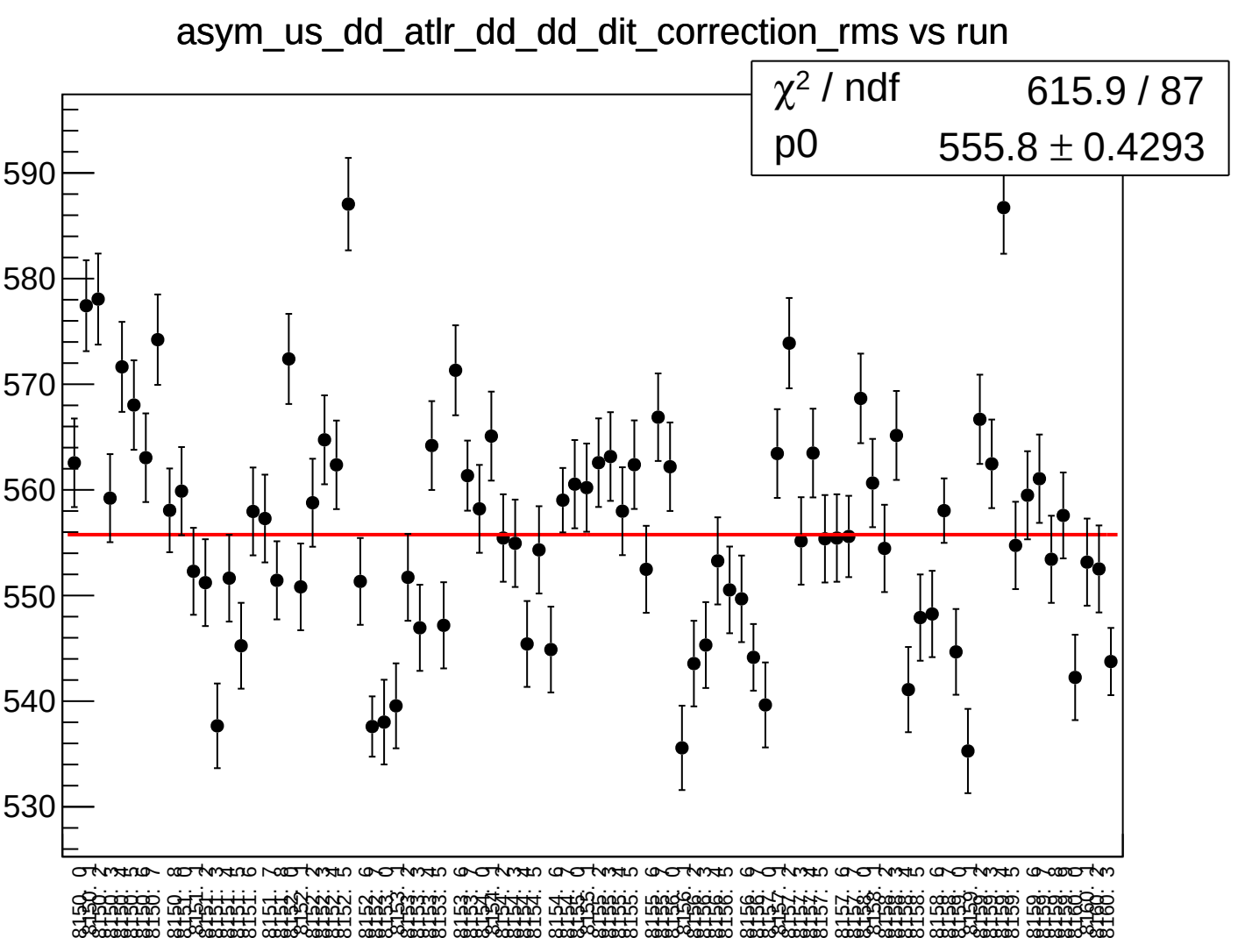

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 108.5 / 87
p0 −5.34 ± 1254
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 53.17
Std Dev 0
2
1
0
−1
−2
−3

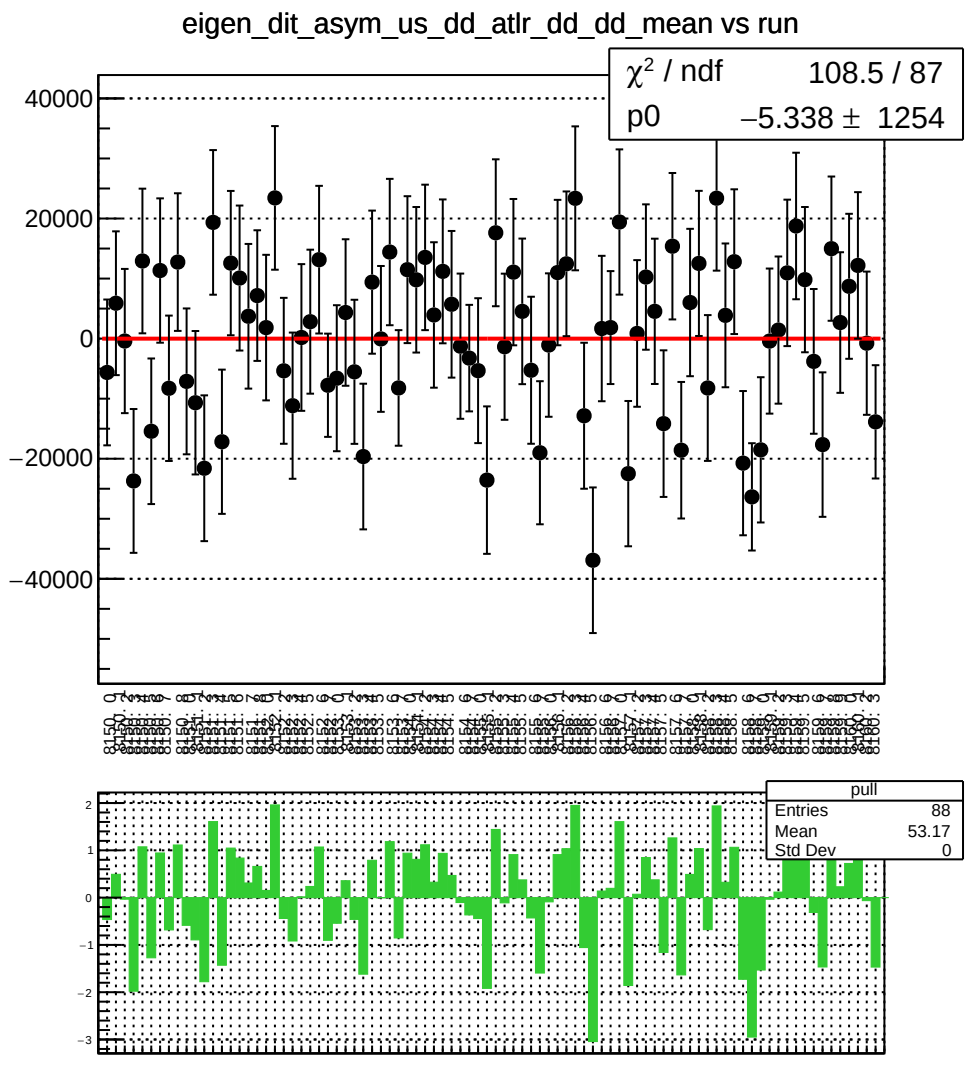

pull1D
Entries 88
Mean 0.0237
Std Dev 1.11
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

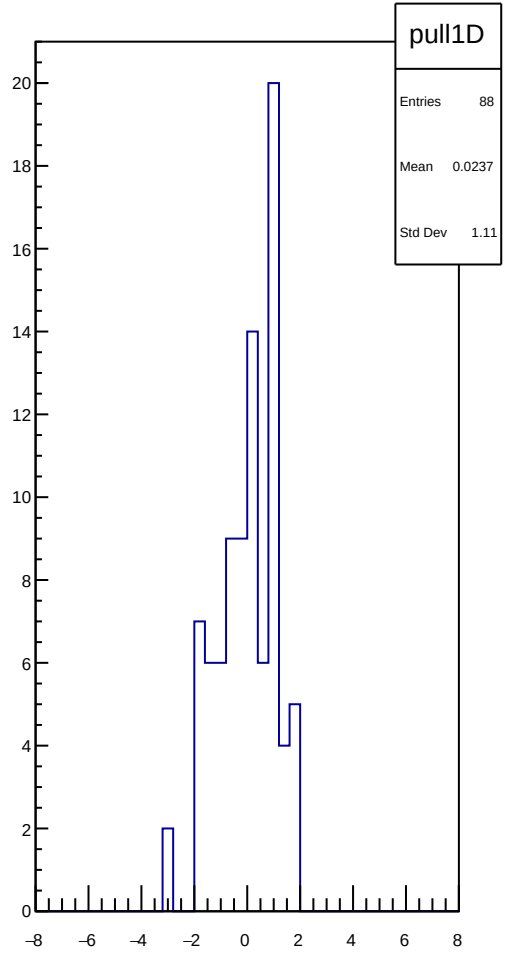

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 86.56 / 87
p0 1148 ± 0.8866
1180
1170
1160
1150
1140
1130
1120

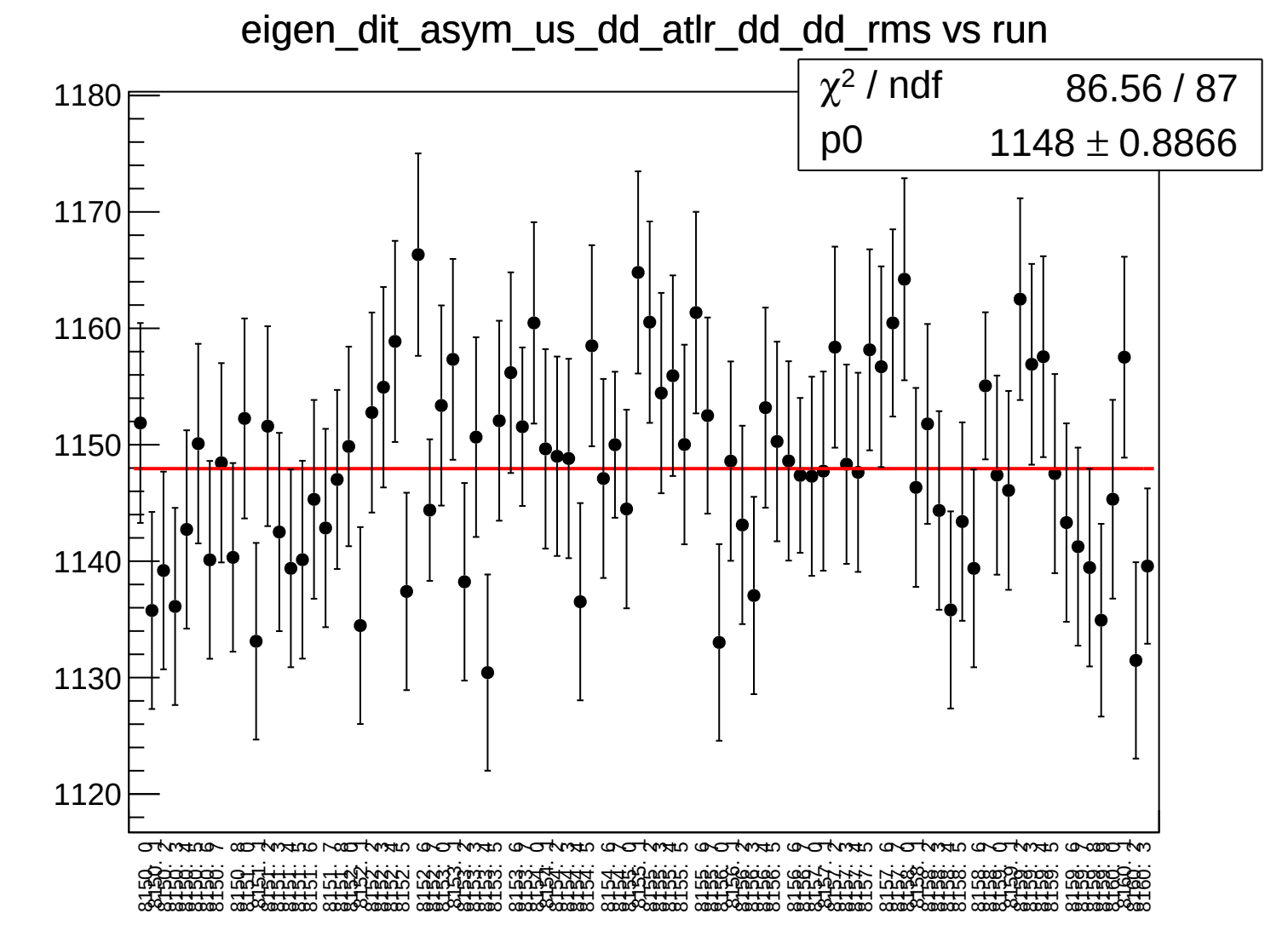

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 105.4 / 87
p0 −2831 ± 607.1
pull
Entries 88
Mean 1.74e+04
Std Dev 0

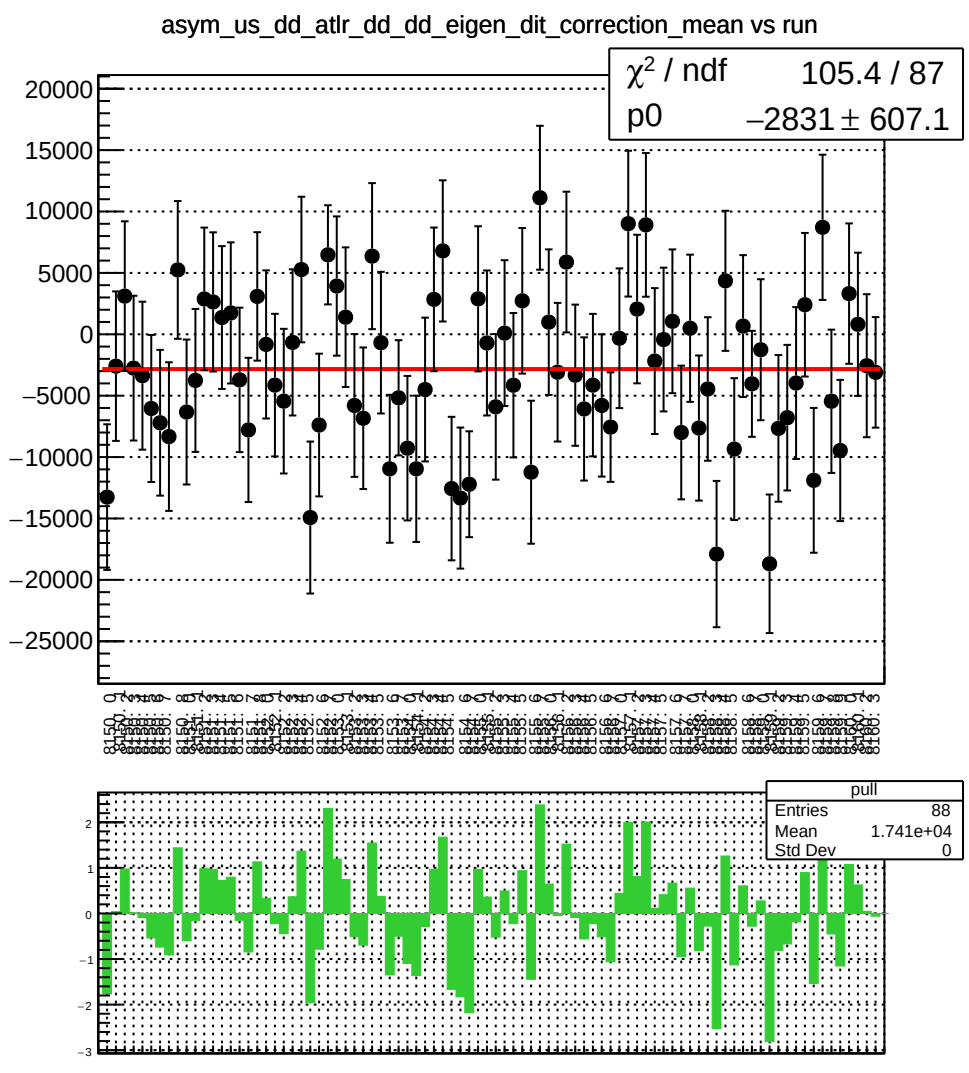

pull1D
Entries 88
Mean −5.824e−05
Std Dev 1.094

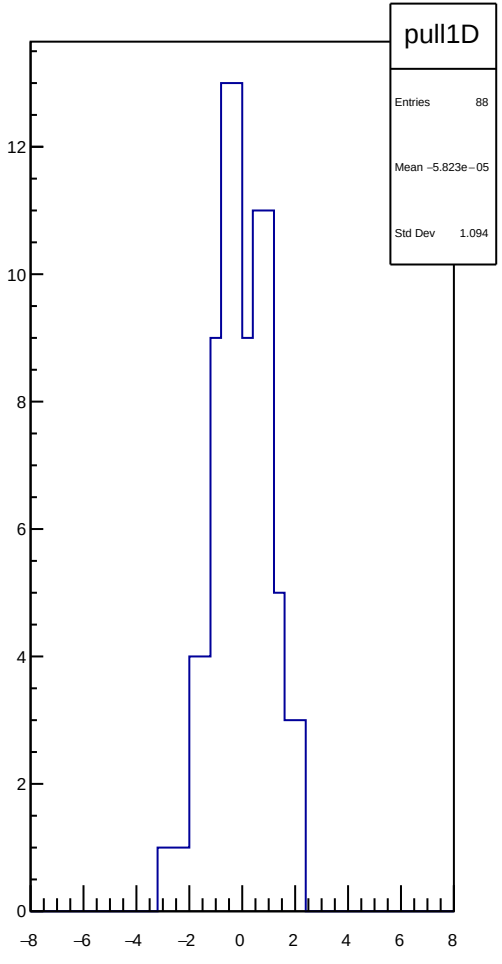

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 615.9 / 87
p0 555.8 ± 0.4293
590
580
570
560
550
540
530

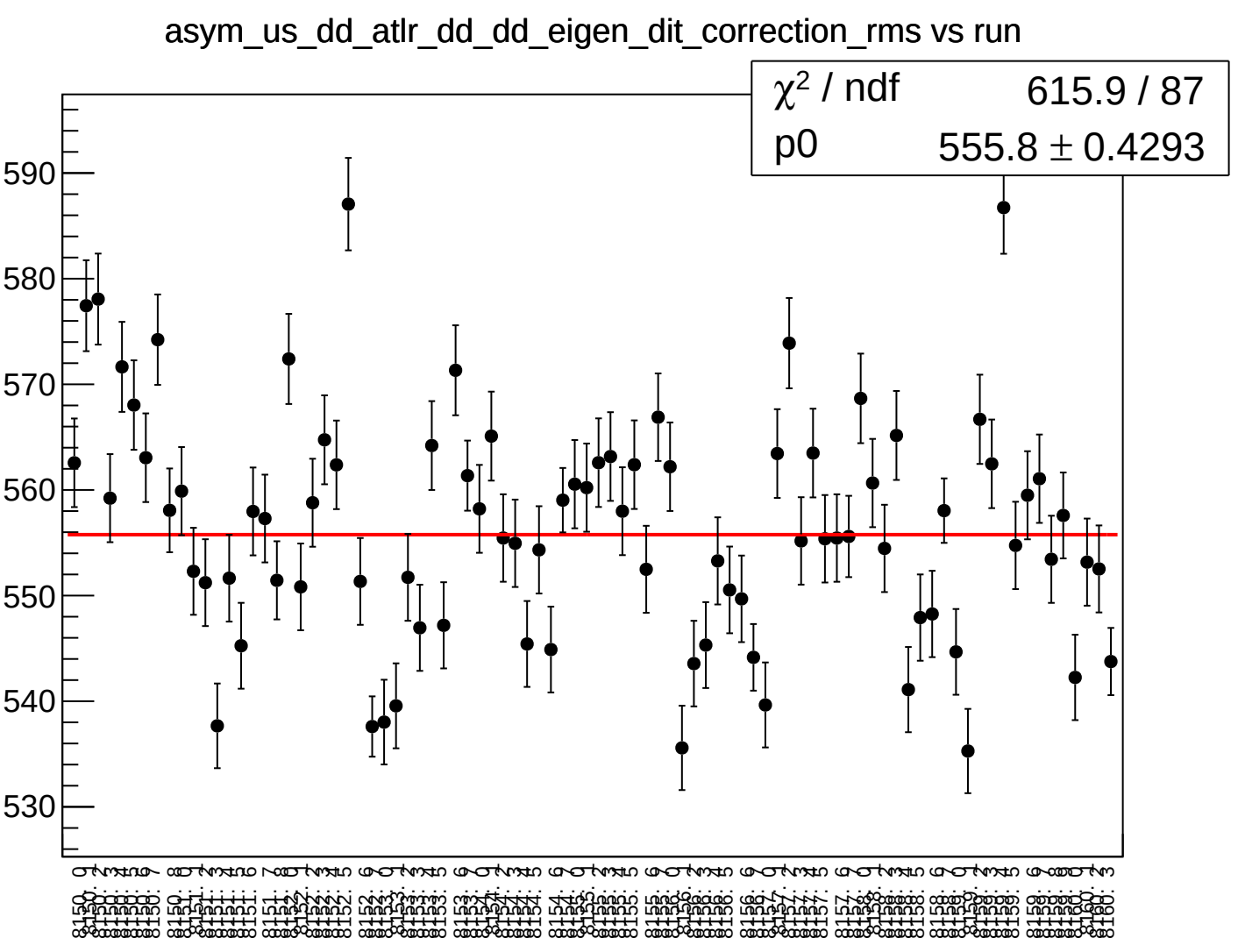

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 108.5 / 87
p0 −5.338 ± 1254
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 53.17
Std Dev 0
2
1
0
−1
−2
−3

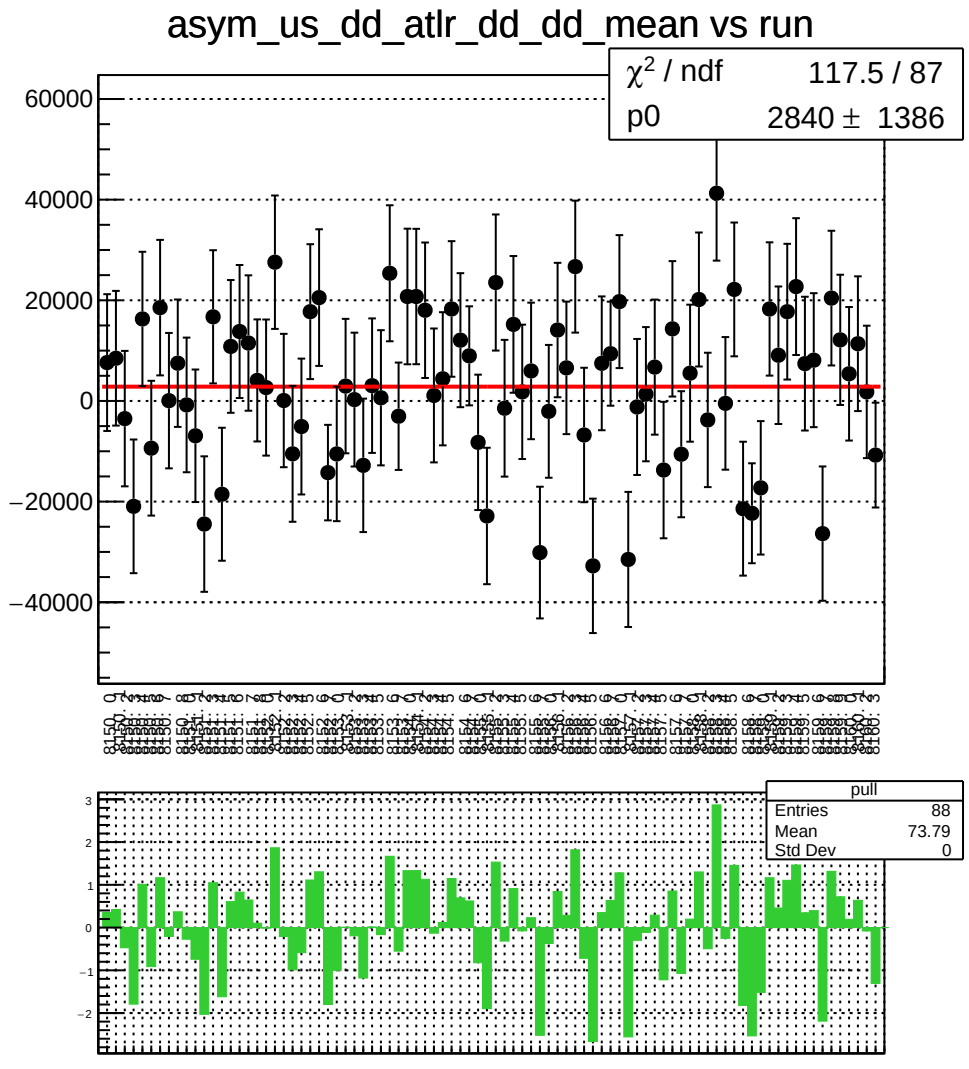

pull1D
Entries 88
Mean 0.0237
Std Dev 1.11
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

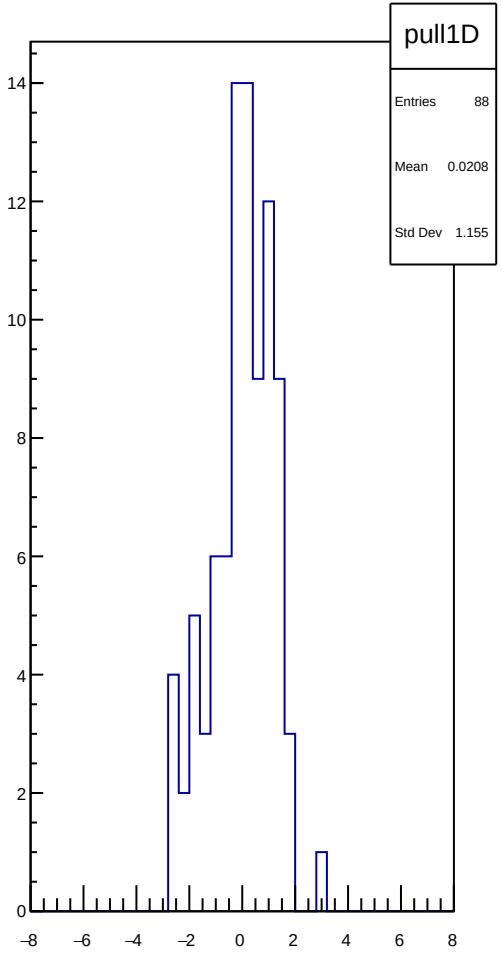

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 86.56 / 87
p0 1148 ± 0.8866
1180
1170
1160
1150
1140
1130
1120

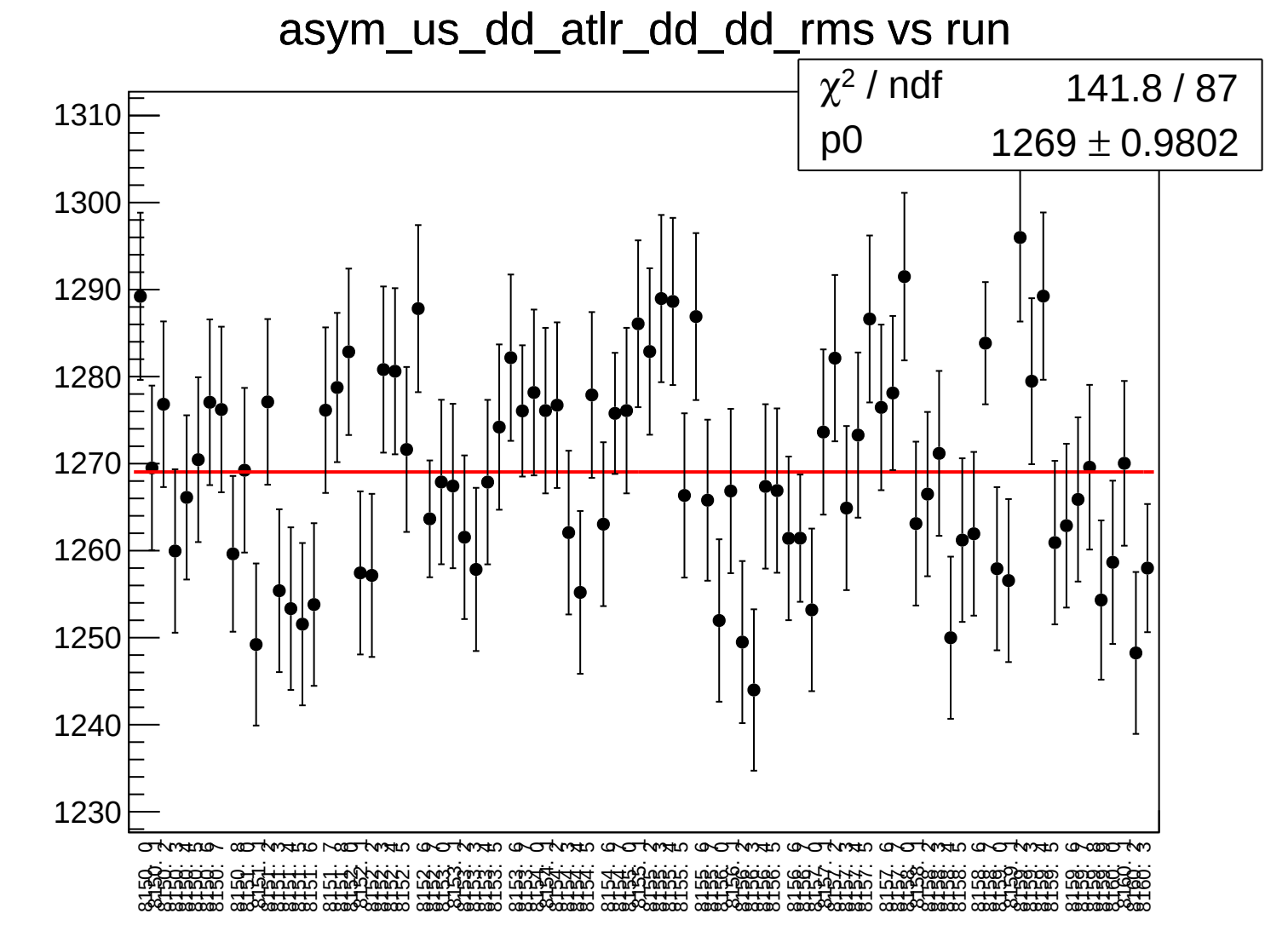

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 105.4 / 87
p0 −2831 ± 607.1
pull
Entries 88
Mean 1.741e+04
Std Dev 0

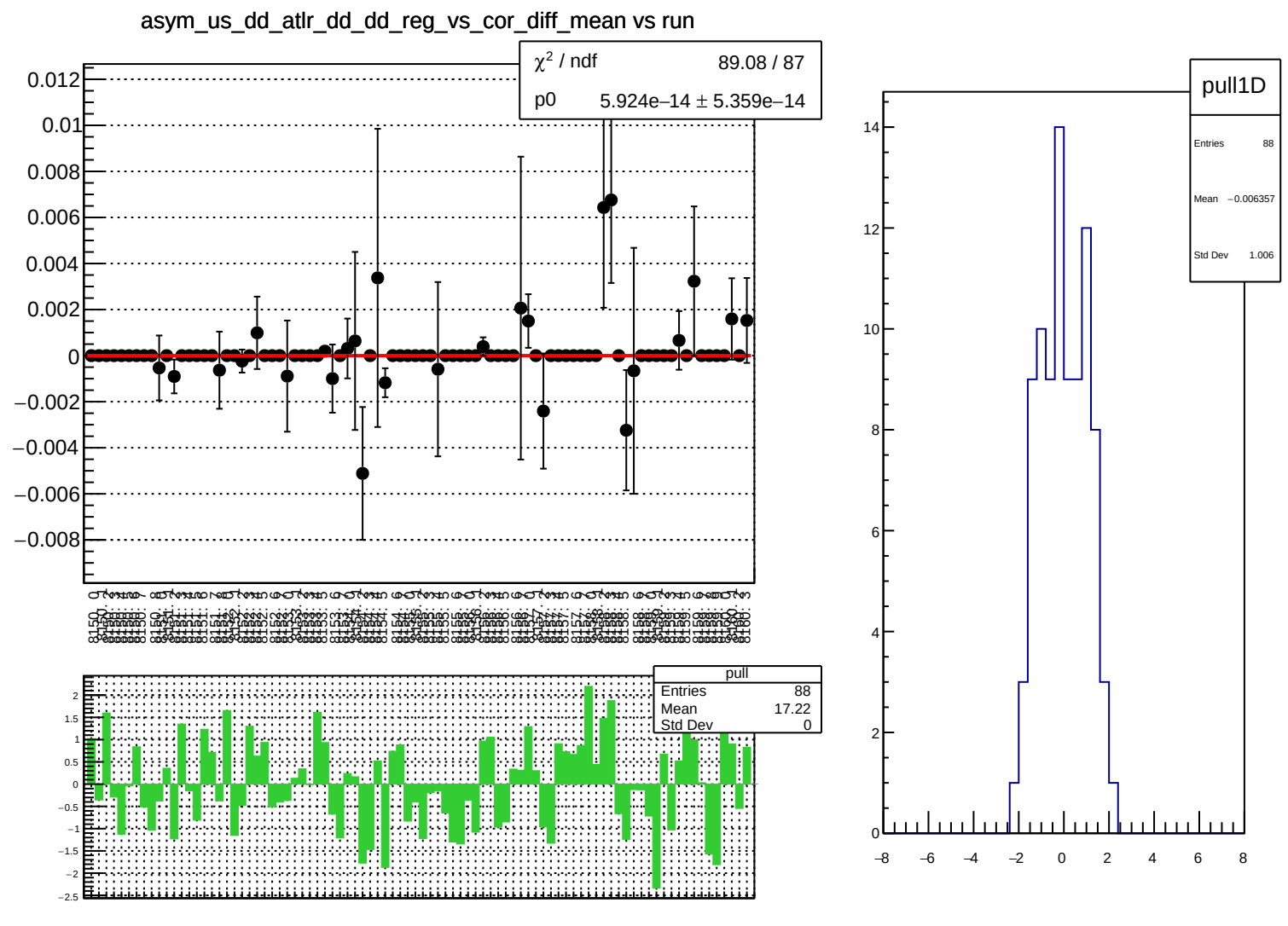

pull1D
Entries 88
Mean −5.823e−05
Std Dev 1.094

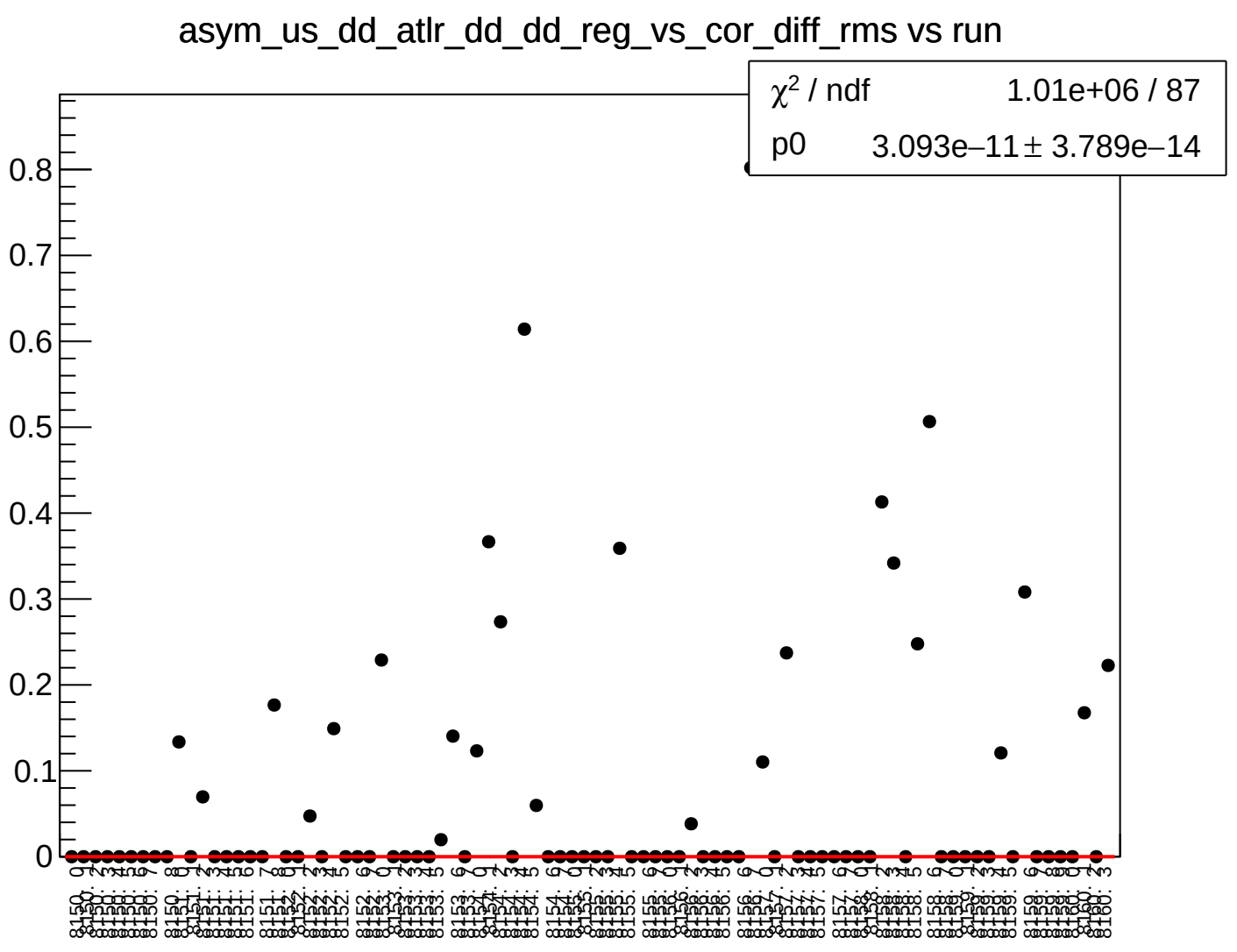

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 615.9 / 87
p0 555.8 ± 0.4293
590
580
570
560
550
540
530

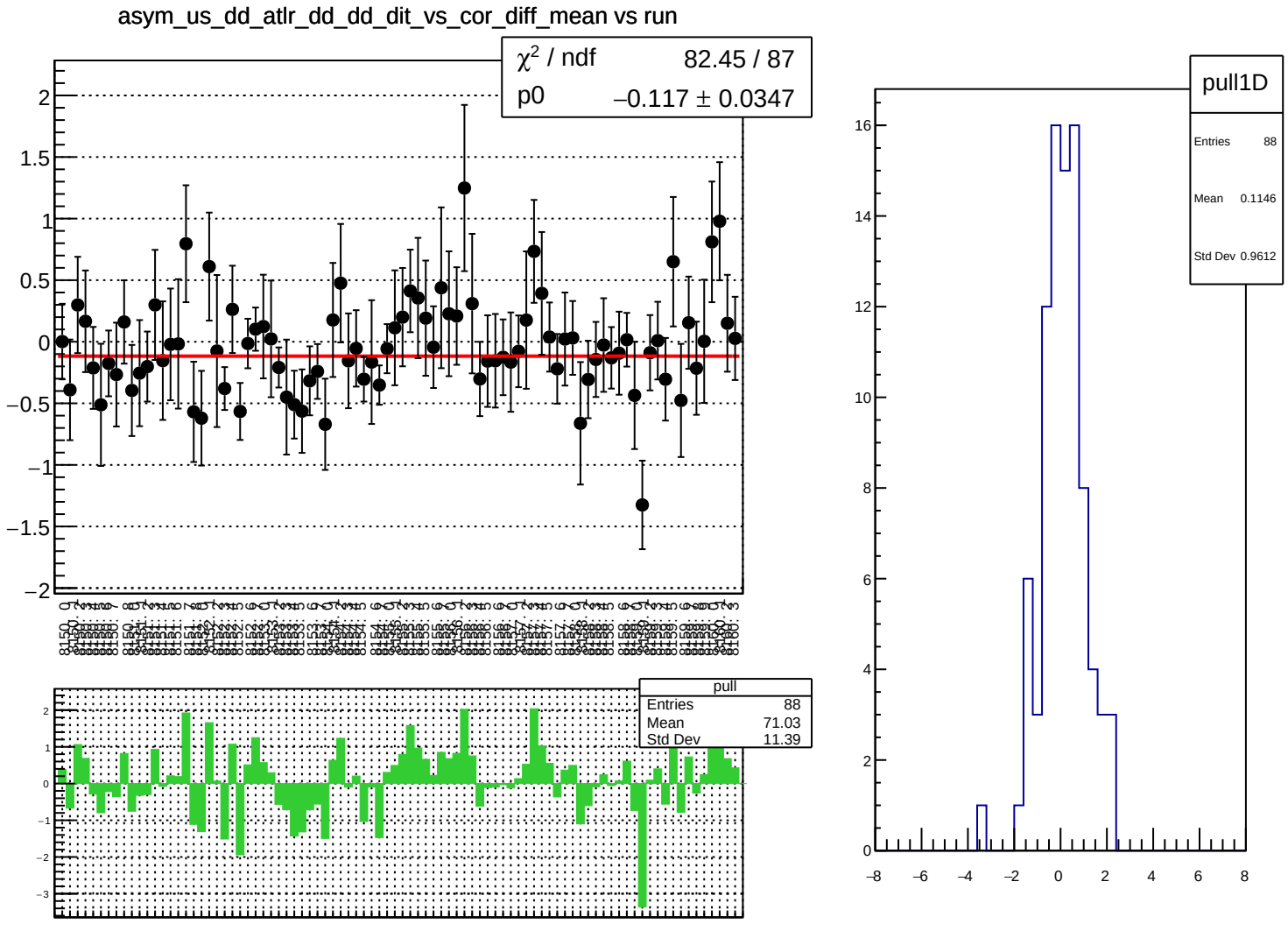

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 117.5 / 87
p0 2840 ± 1386
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 73.79
Std Dev 0
3
2
1
0
−1
−2

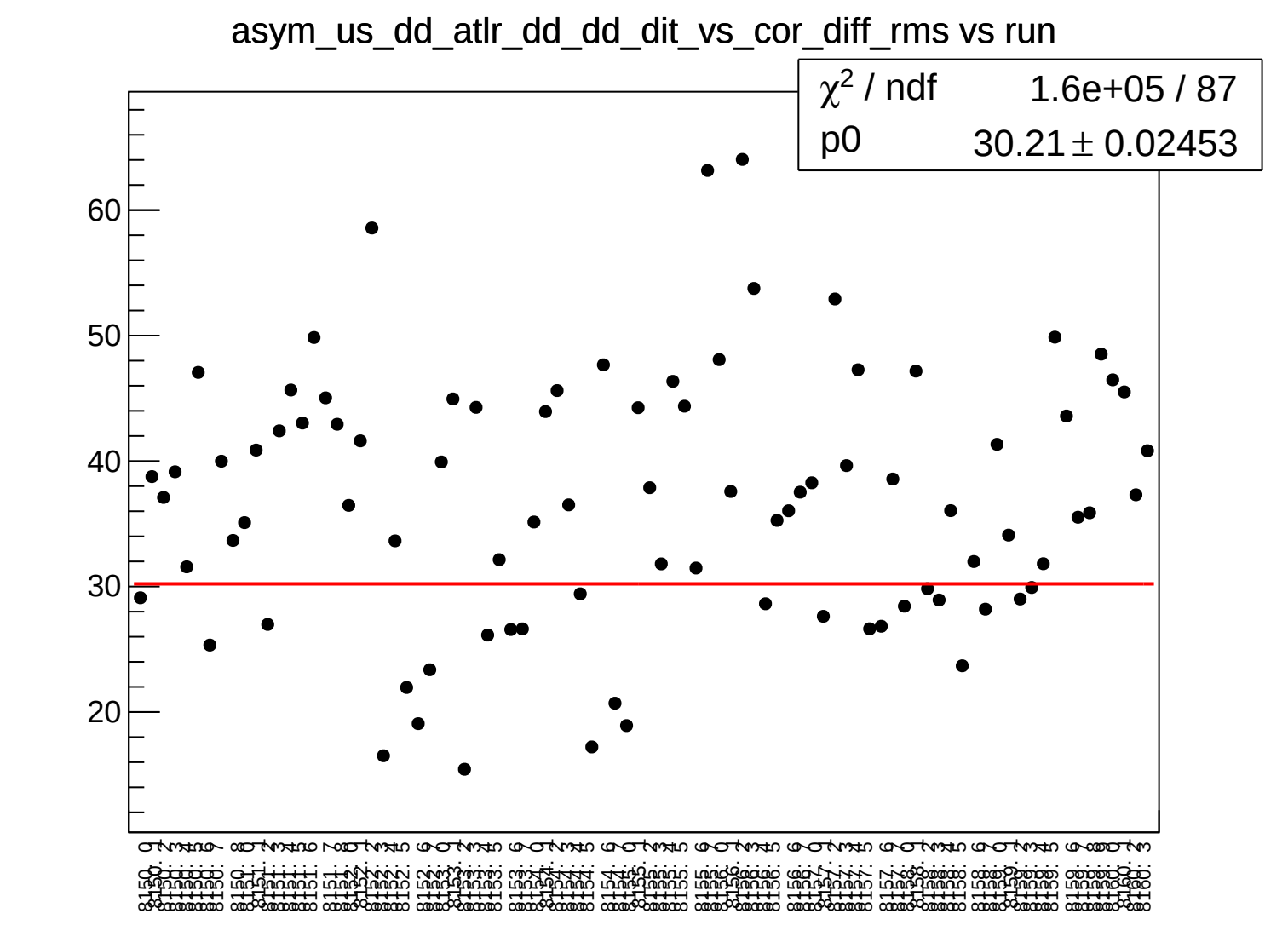

pull1D
Entries 88
Mean 0.0208
Std Dev 1.155
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

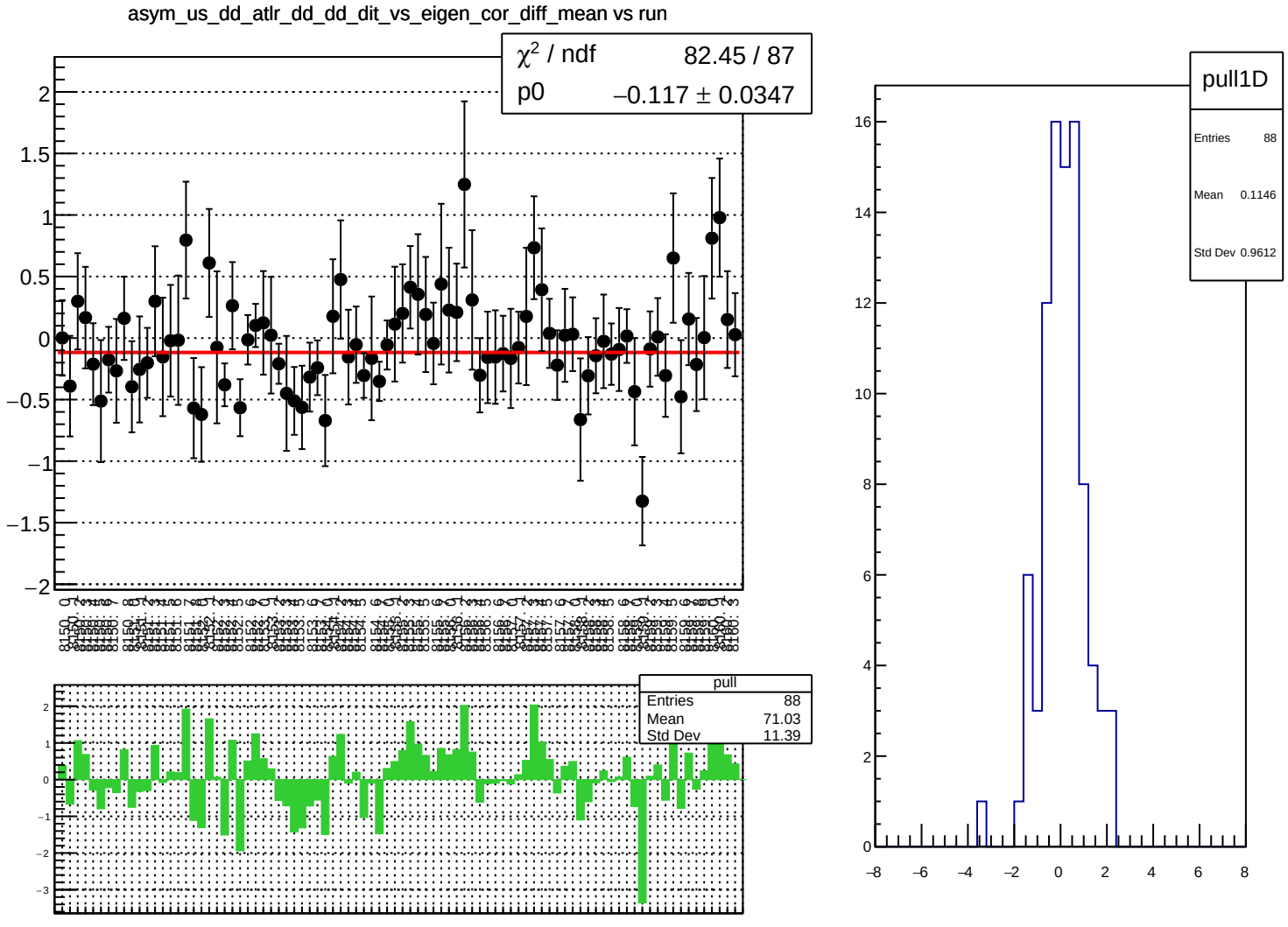

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 141.8 / 87
p0 1269 ± 0.9802
1310
1300
1290
1280
1270
1260
1250
1240
1230

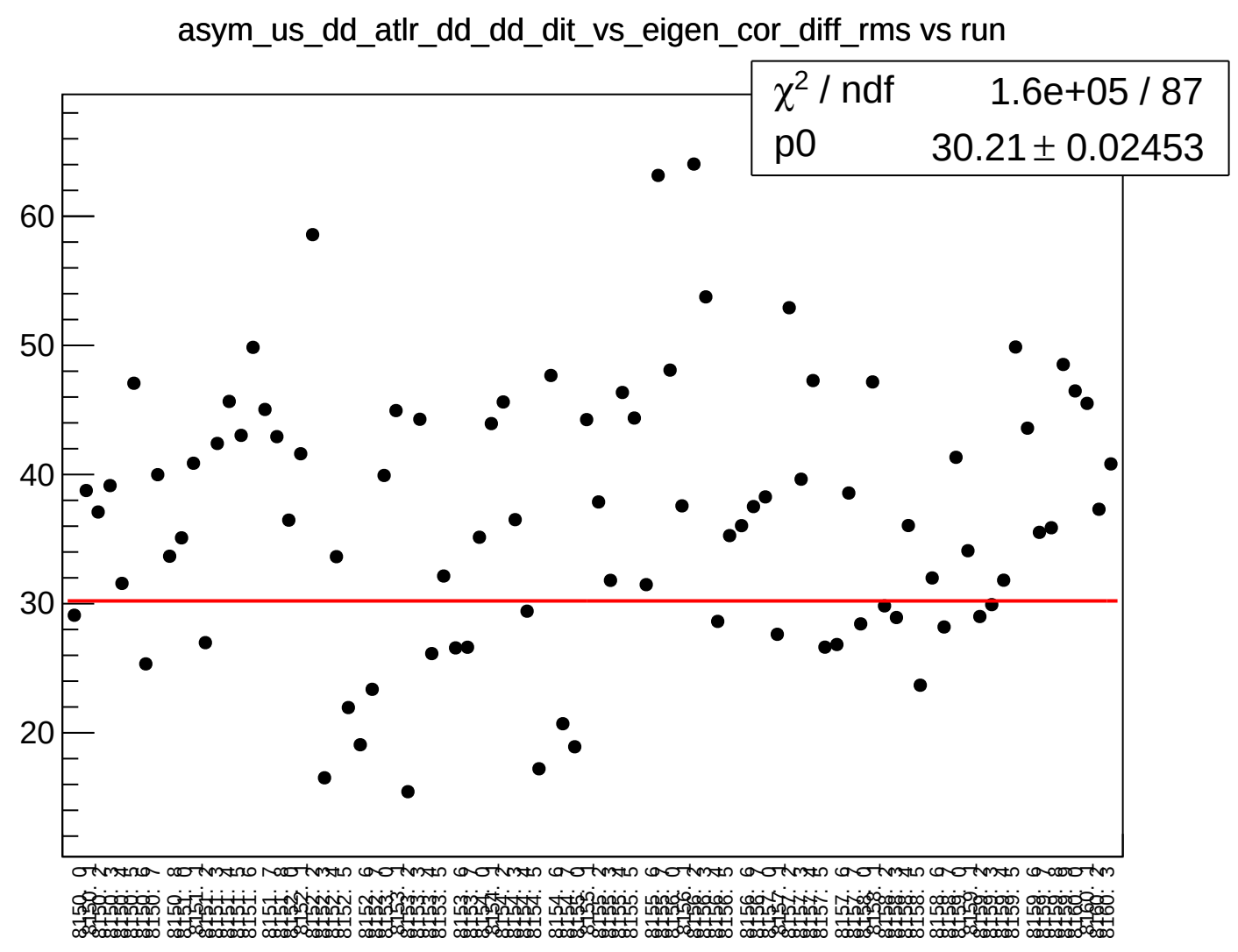

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.08 / 87
p0 5.924e−14 ± 5.359e−14
pull
Entries 88
Mean 17.22
Std Dev 0
pull1D
Entries 88
Mean −0.006357
Std Dev 1.006

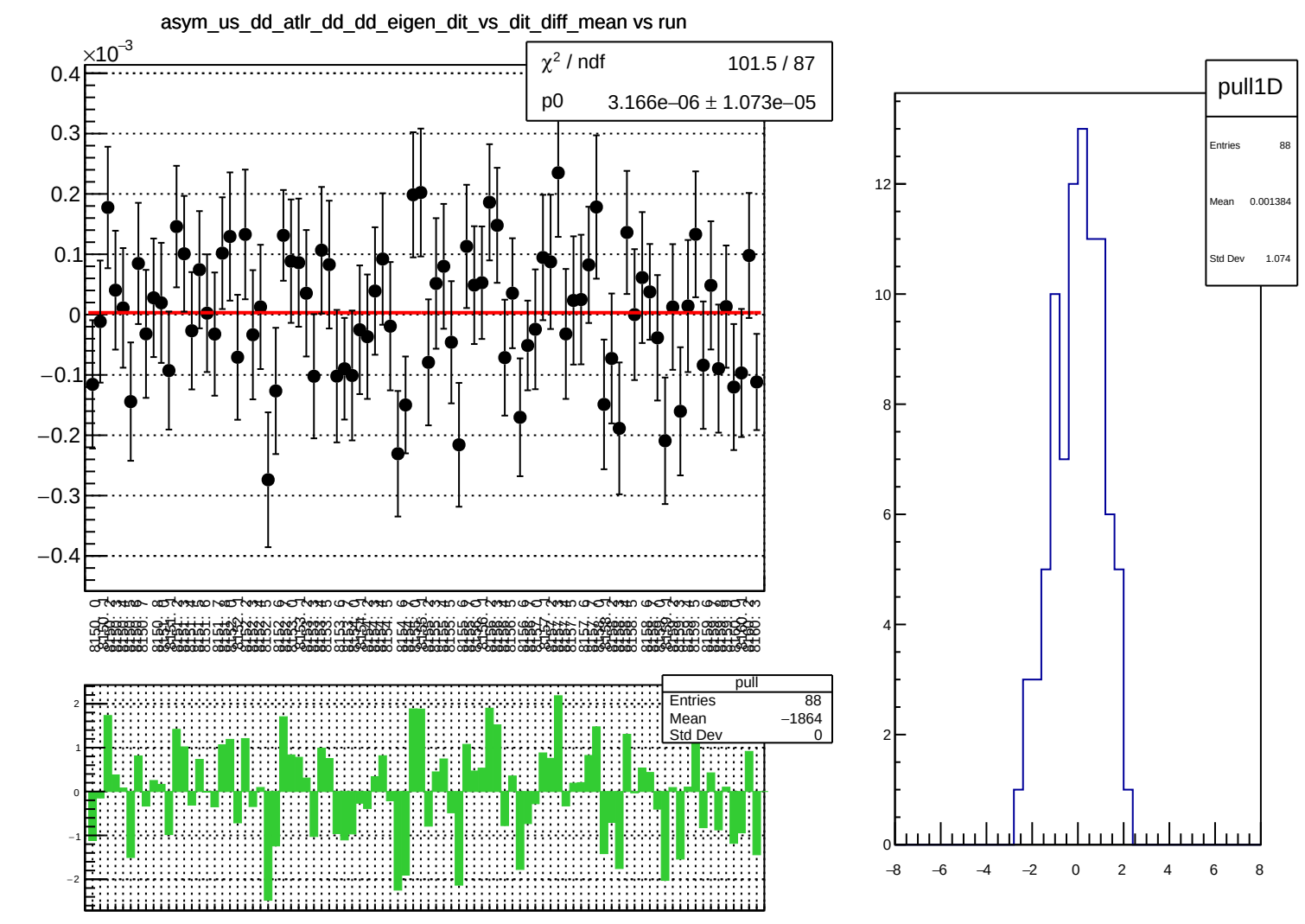

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.01e+06 / 87
p0 3.093e−11 ± 3.789e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

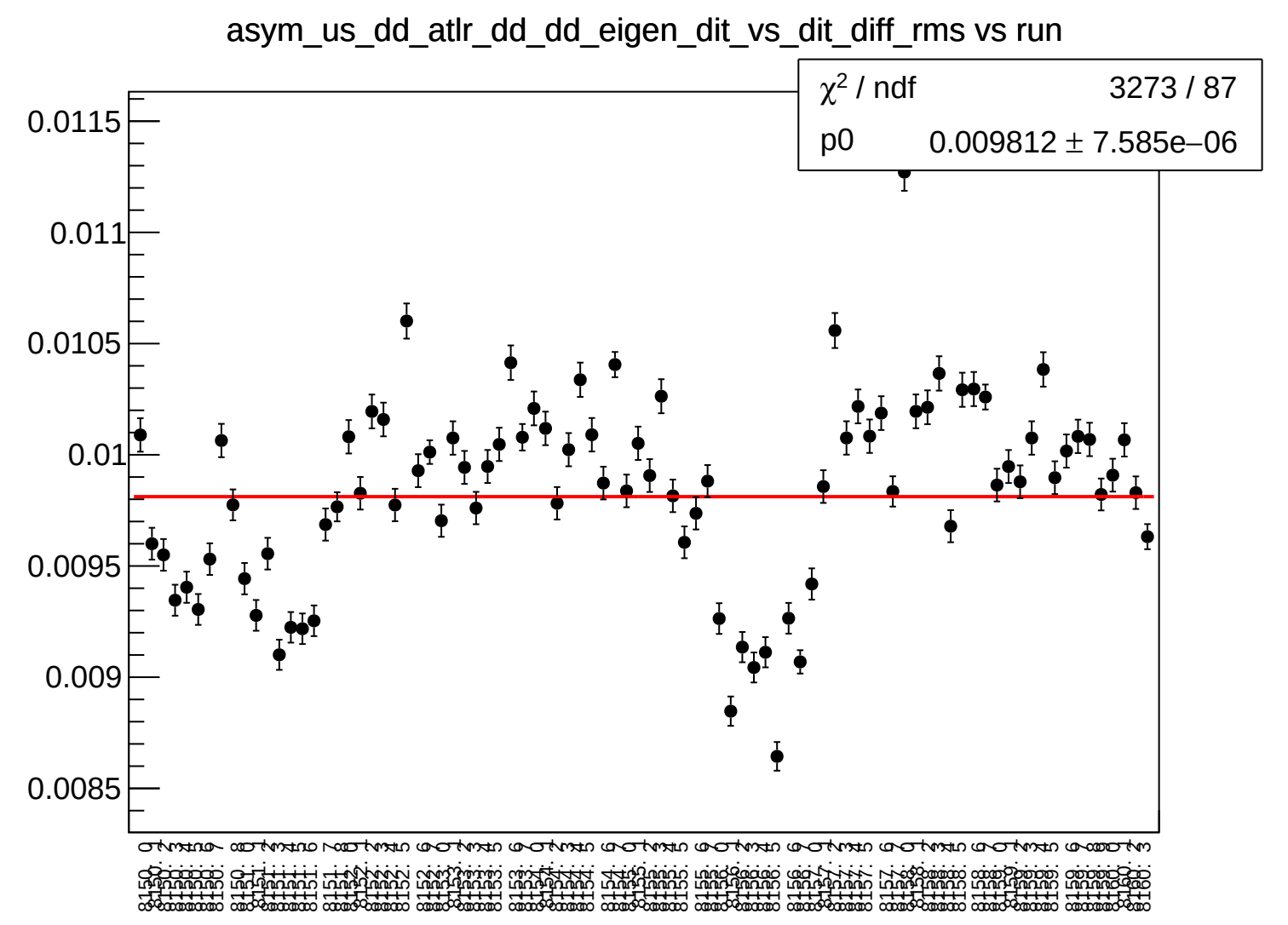

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.45 / 87
p0 −0.117 ± 0.0347
pull
Entries 88
Mean 71.03
Std Dev 11.39
pull1D
Entries 88
Mean 0.1146
Std Dev 0.9612

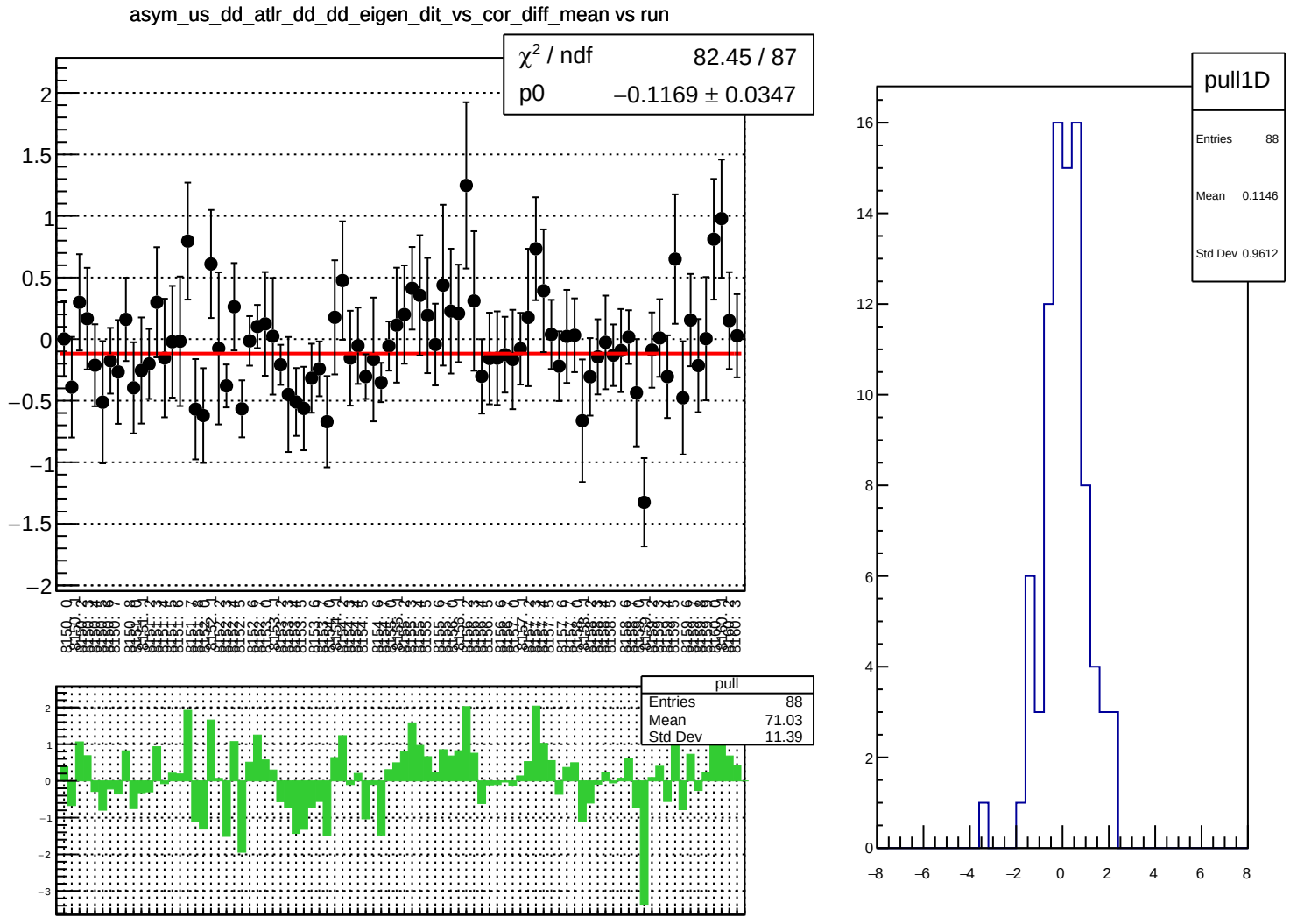

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.6e+05 / 87
p0 30.21 ± 0.02453
60
50
40
30
20

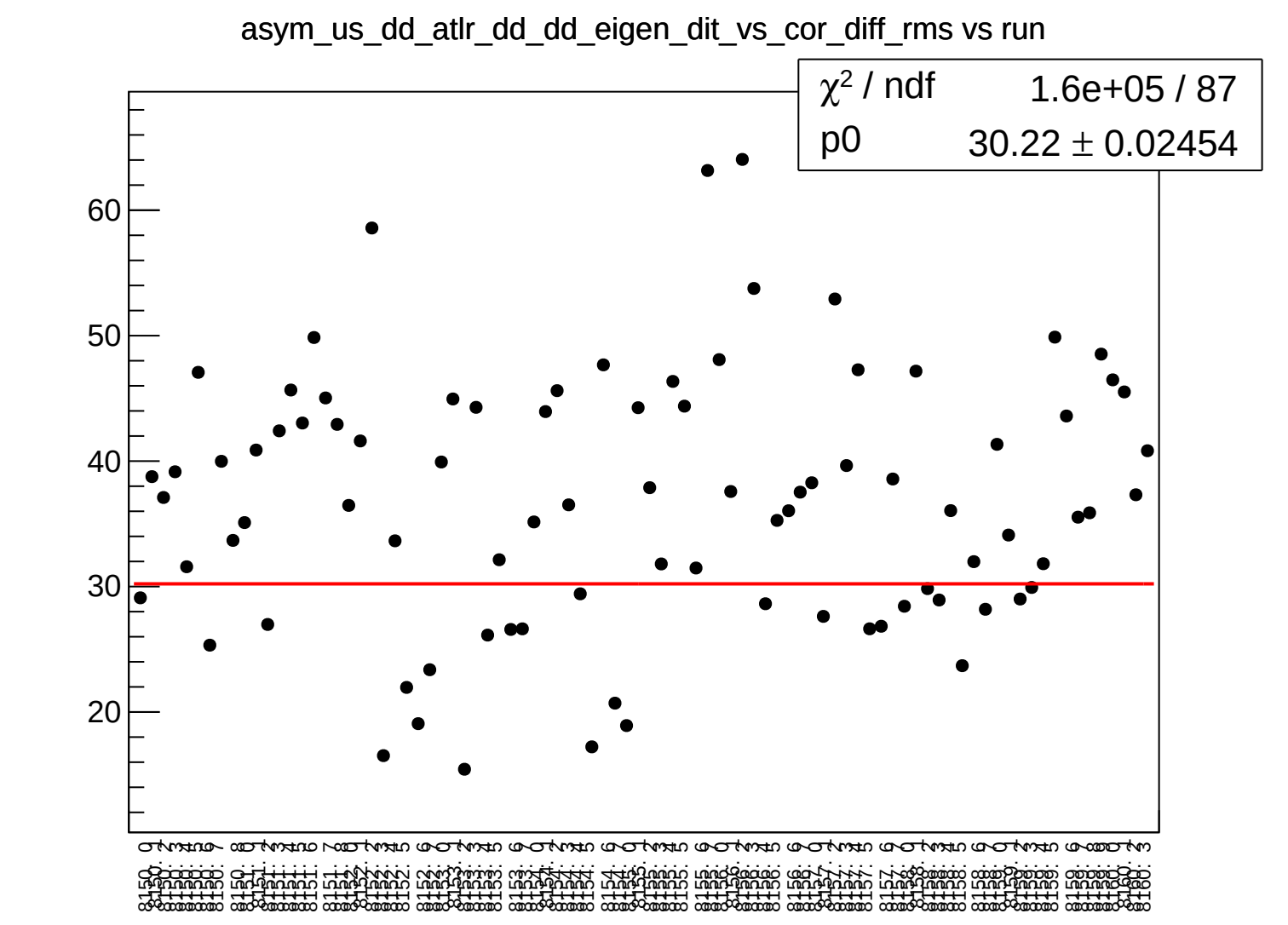

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.45 / 87
p0 −0.117 ± 0.0347
pull
Entries 88
Mean 71.03
Std Dev 11.39
pull1D
Entries 88
Mean 0.1146
Std Dev 0.9612

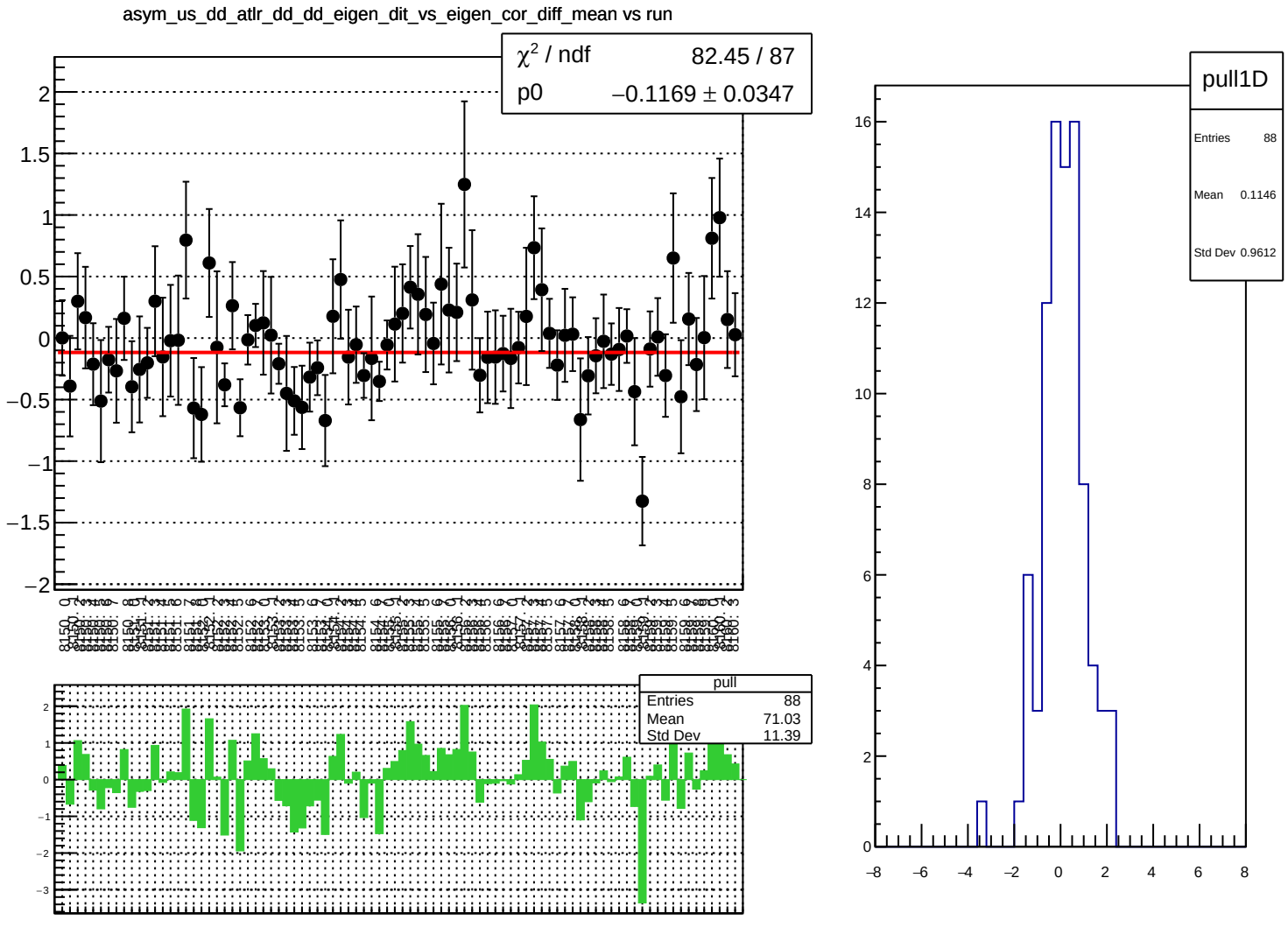

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.6e+05 / 87
p0 30.21 ± 0.02453
60
50
40
30
20

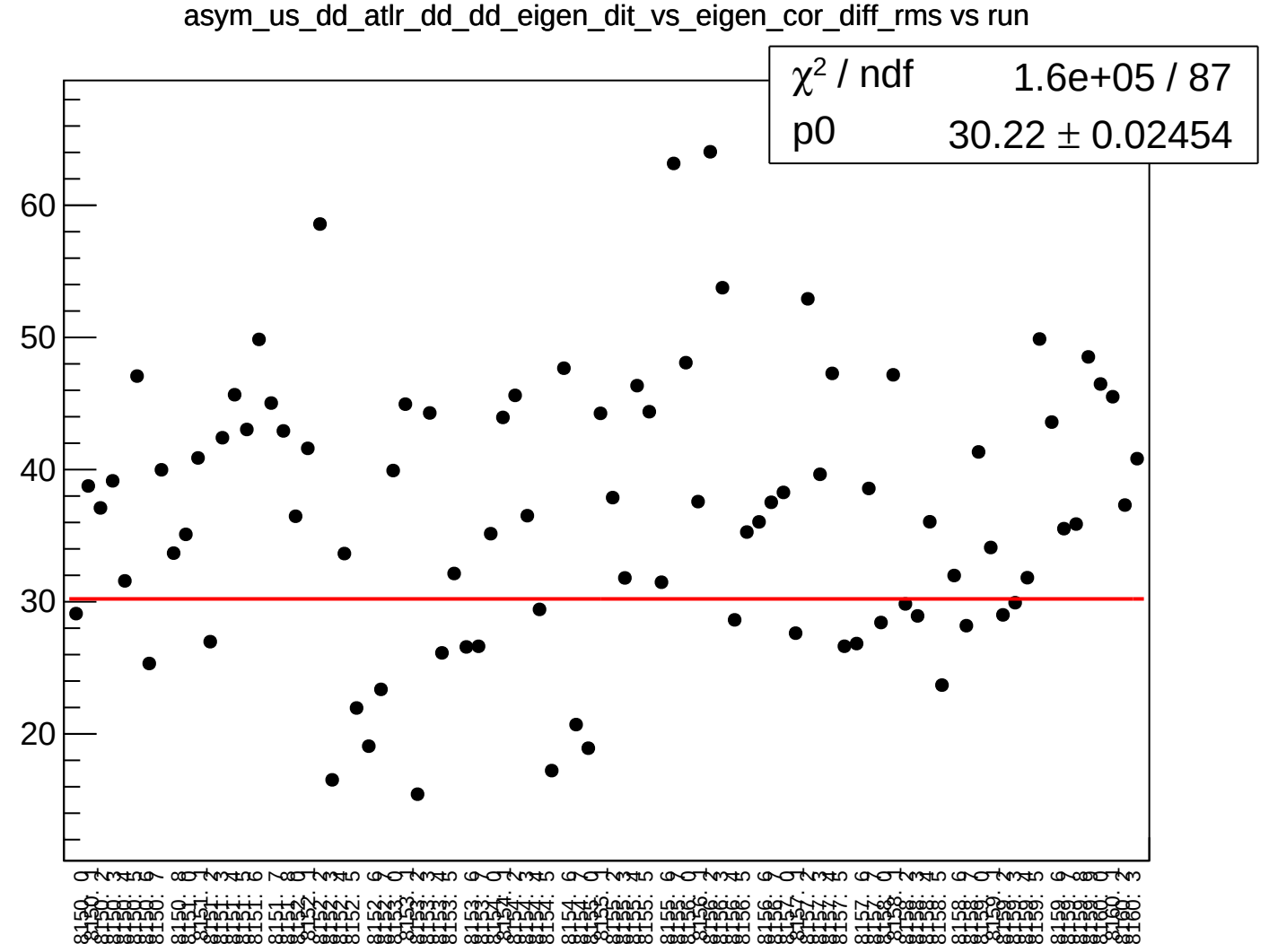

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.5 / 87
p0 3.166e−06 ± 1.073e−05
pull
Entries 88
Mean −1864
Std Dev 0
pull1D
Entries 88
Mean 0.001384
Std Dev 1.074

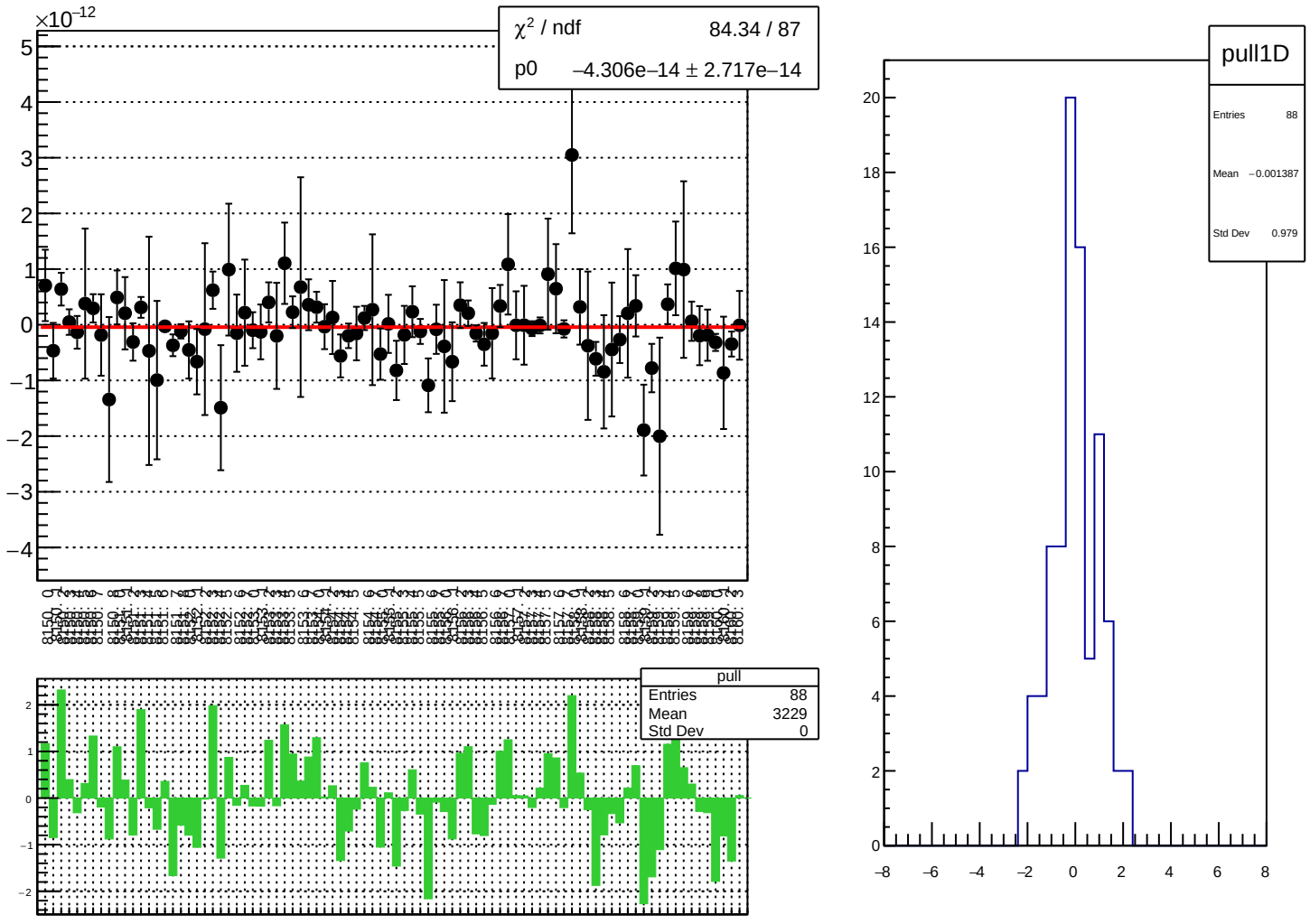

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3273 / 87
p0 0.009812 ± 7.585e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085

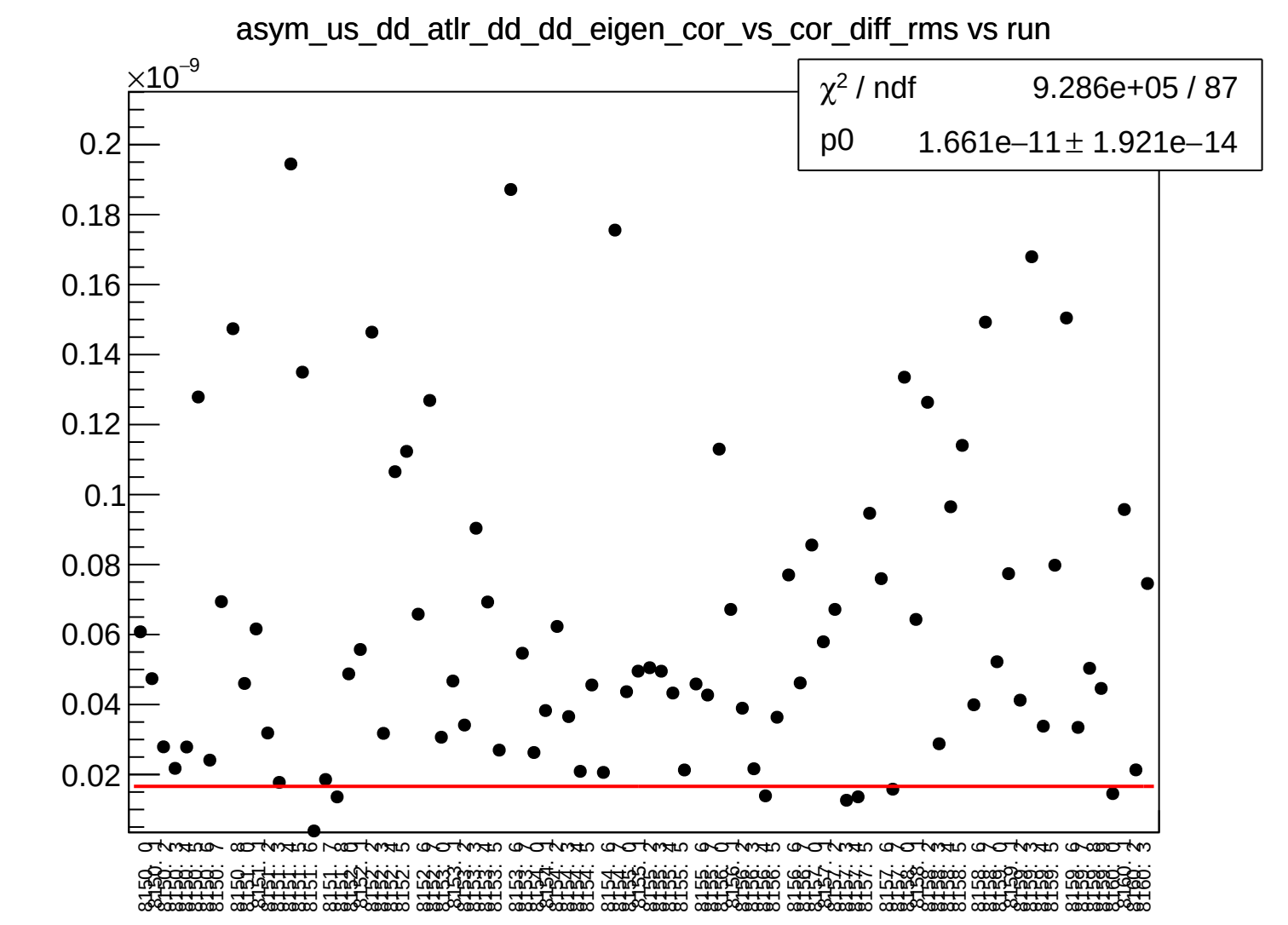

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.45 / 87
p0 −0.1169 ± 0.0347
pull
Entries 88
Mean 71.03
Std Dev 11.39
pull1D
Entries 88
Mean 0.1146
Std Dev 0.9612

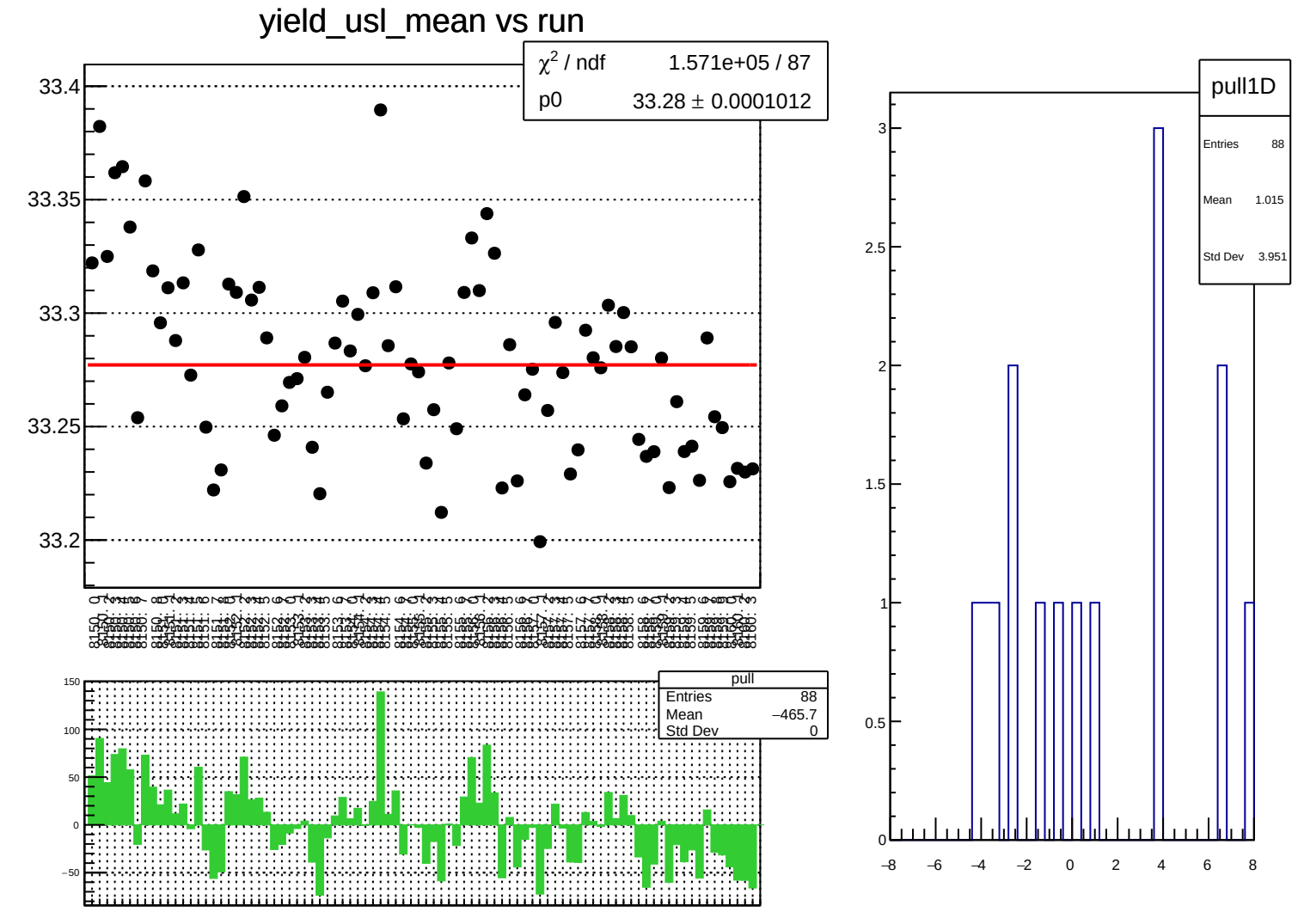

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.6e+05 / 87
p0 30.22 ± 0.02454
60
50
40
30
20

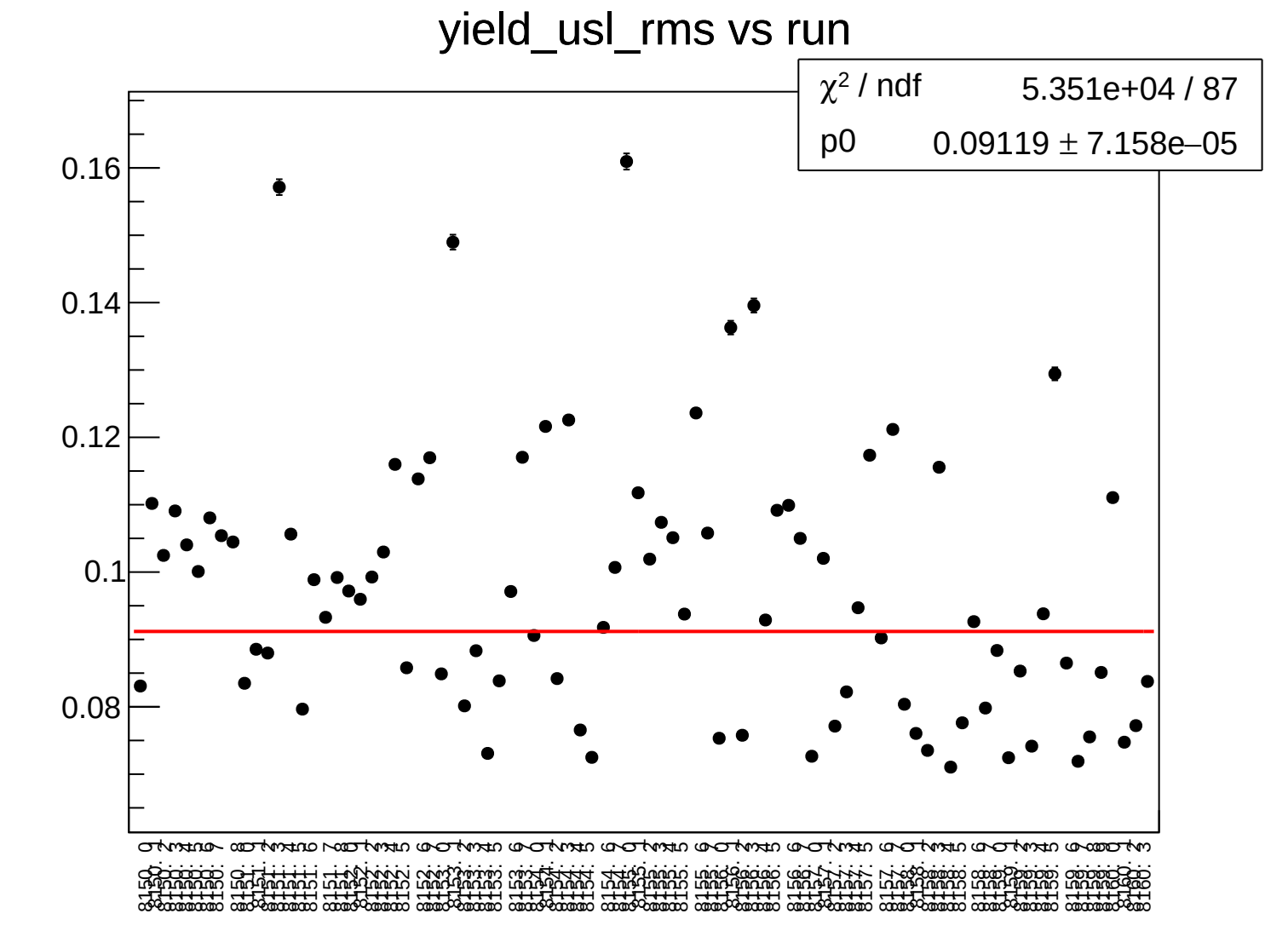

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.45 / 87
p0 −0.1169 ± 0.0347
pull
Entries 88
Mean 71.03
Std Dev 11.39
pull1D
Entries 88
Mean 0.1146
Std Dev 0.9612

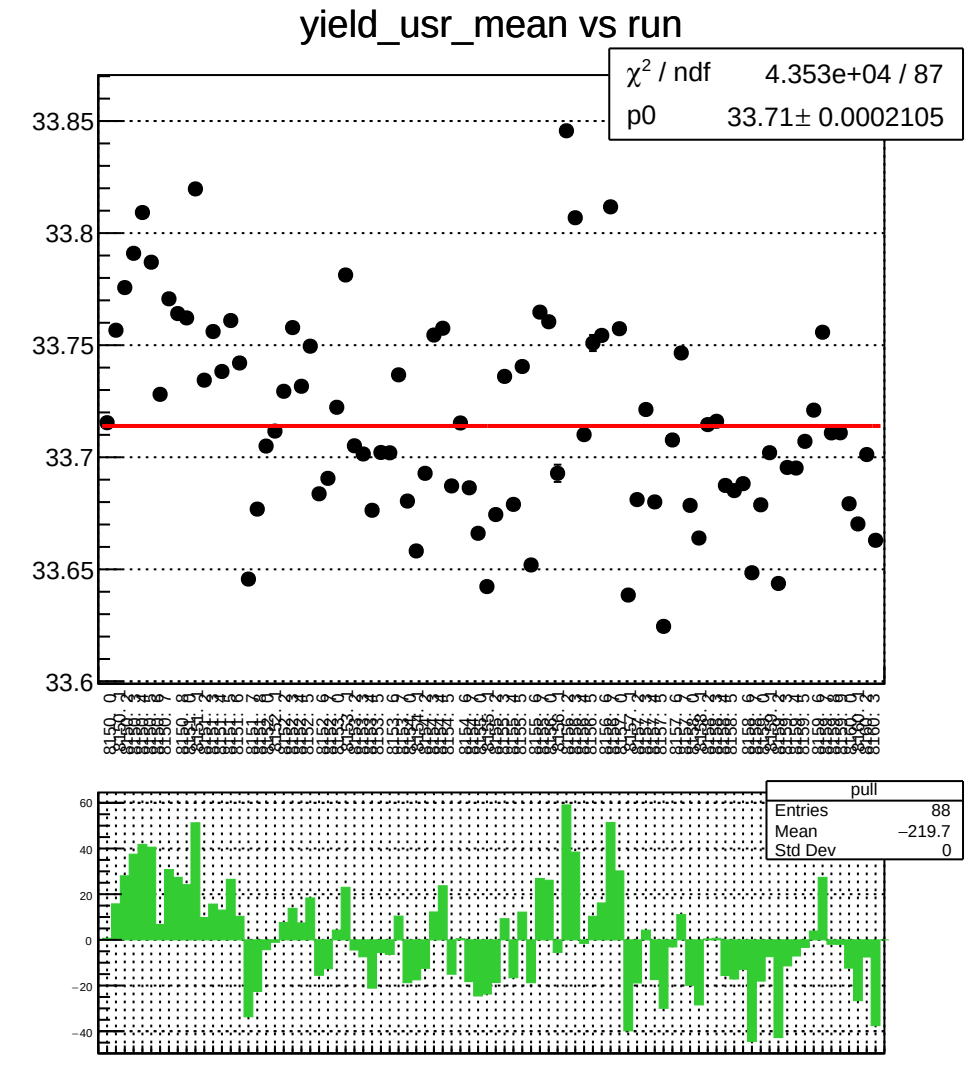

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.6e+05 / 87
p0 30.22 ± 0.02454
60
50
40
30
20

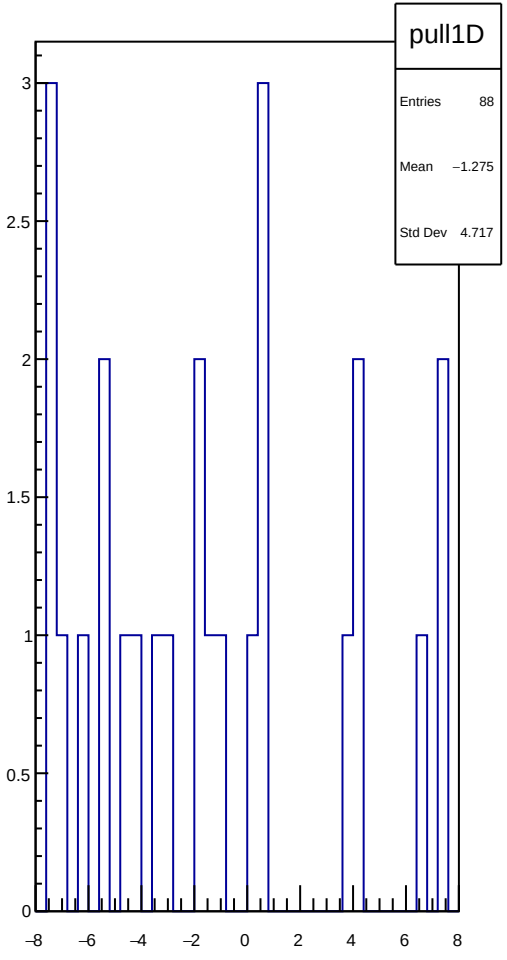

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.34 / 87
p0 −4.306e−14 ± 2.717e−14
pull
Entries 88
Mean 3229
Std Dev 0
pull1D
Entries 88
Mean −0.001387
Std Dev 0.979

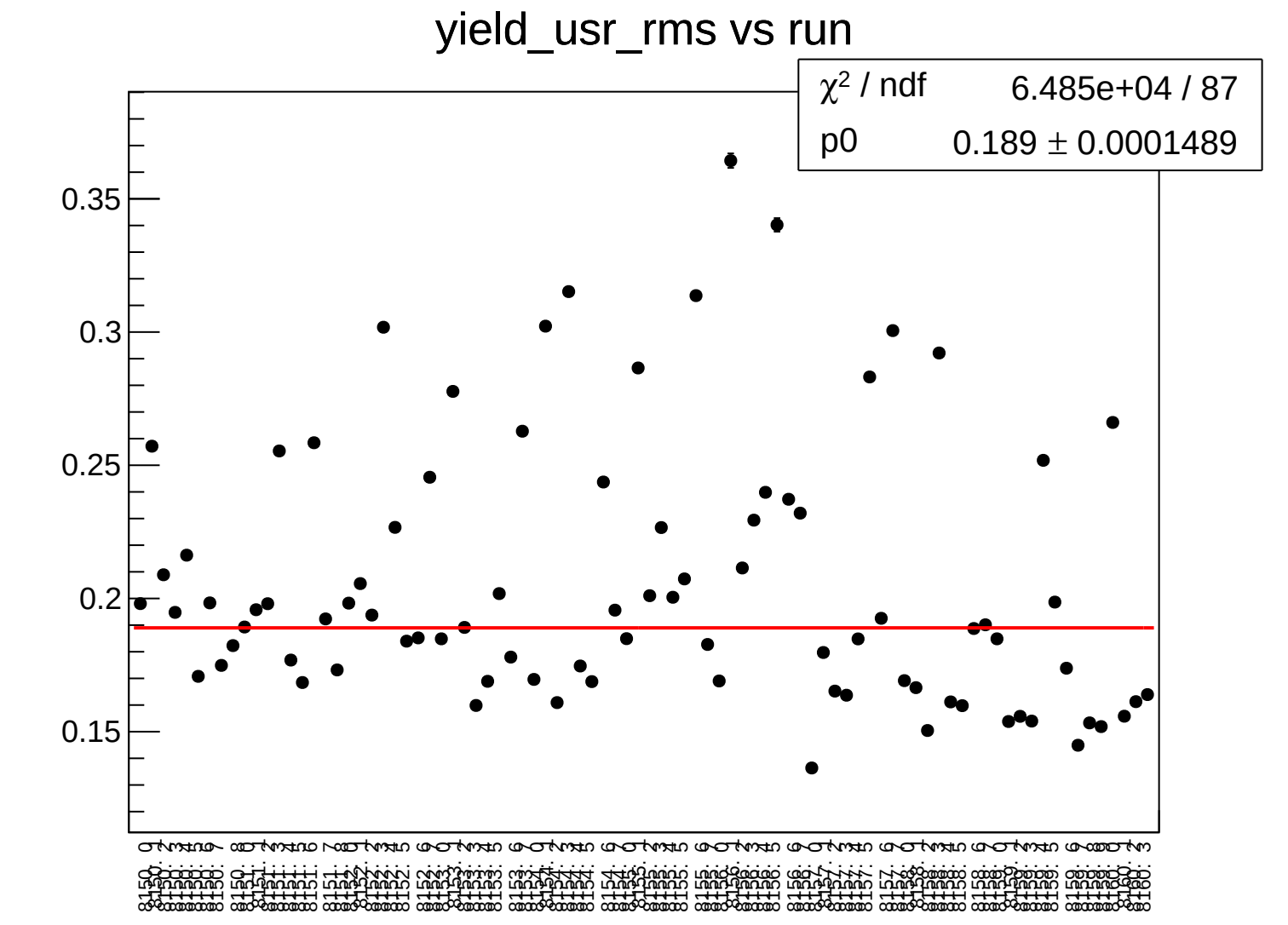

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.286e+05 / 87
p0 1.661e−11 ± 1.921e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

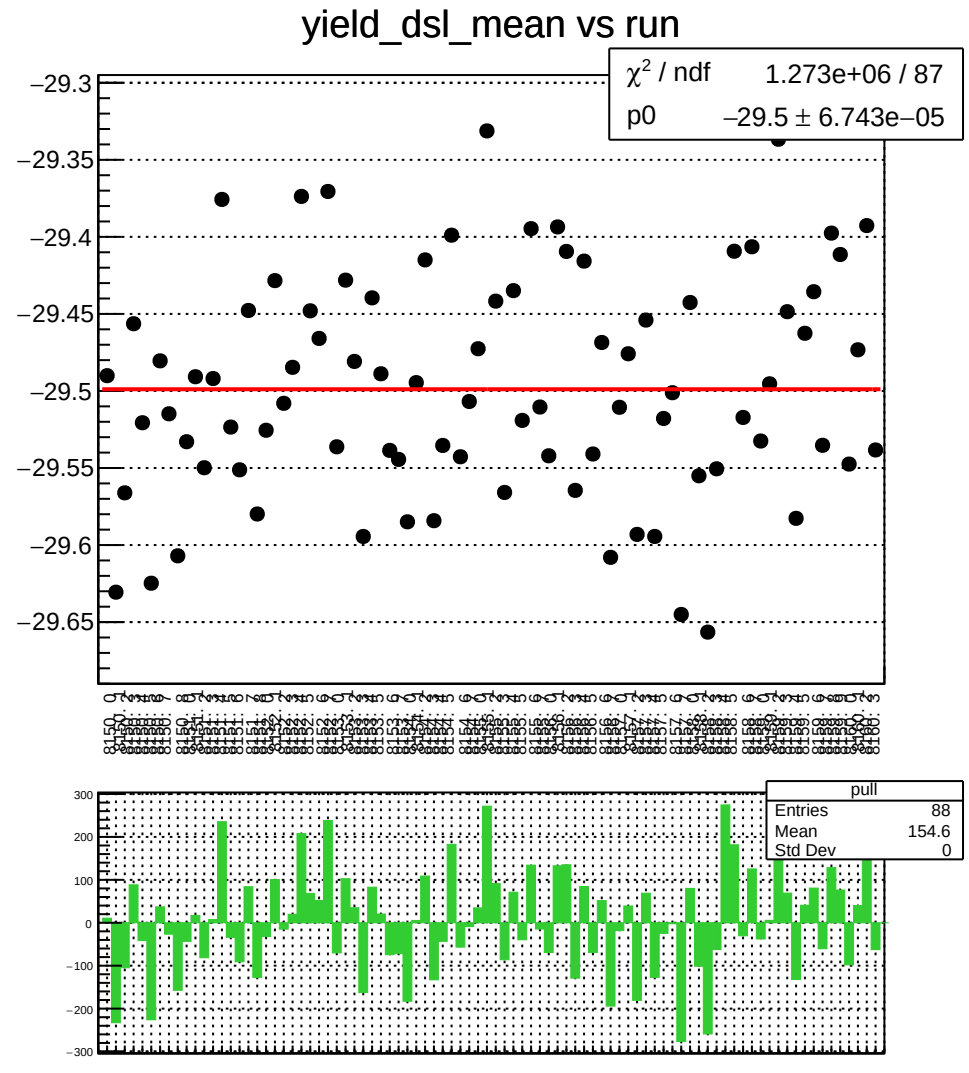

yield_usl_mean vs run
χ² / ndf 1.571e+05 / 87
p0 33.28 ± 0.0001012
33.4
33.35
33.3
33.25
33.2
pull
Entries 88
Mean −465.7
Std Dev 0
150
100
50
0
−50
pull1D
Entries 88
Mean 1.015
Std Dev 3.951
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

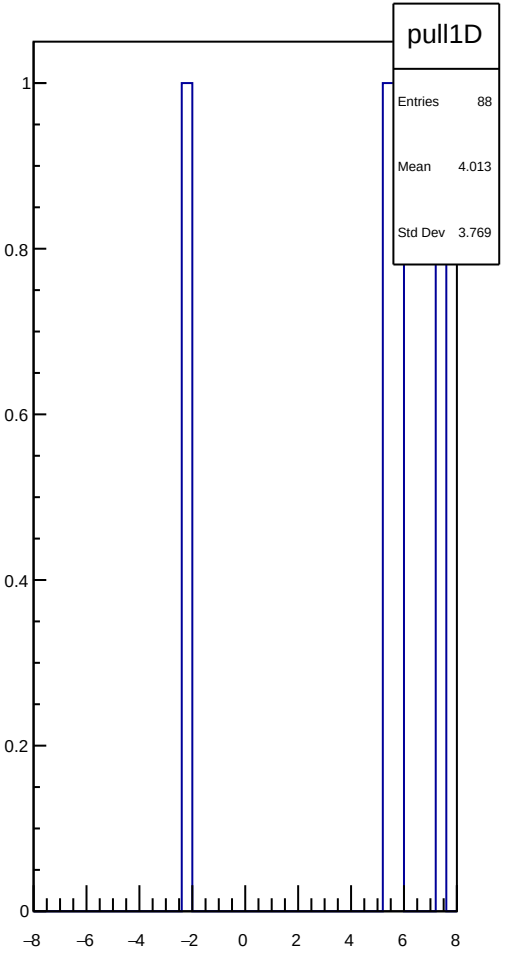

yield_usl_rms vs run
χ² / ndf 5.351e+04 / 87
p0 0.09119 ± 7.158e−05
0.16
0.14
0.12
0.1
0.08

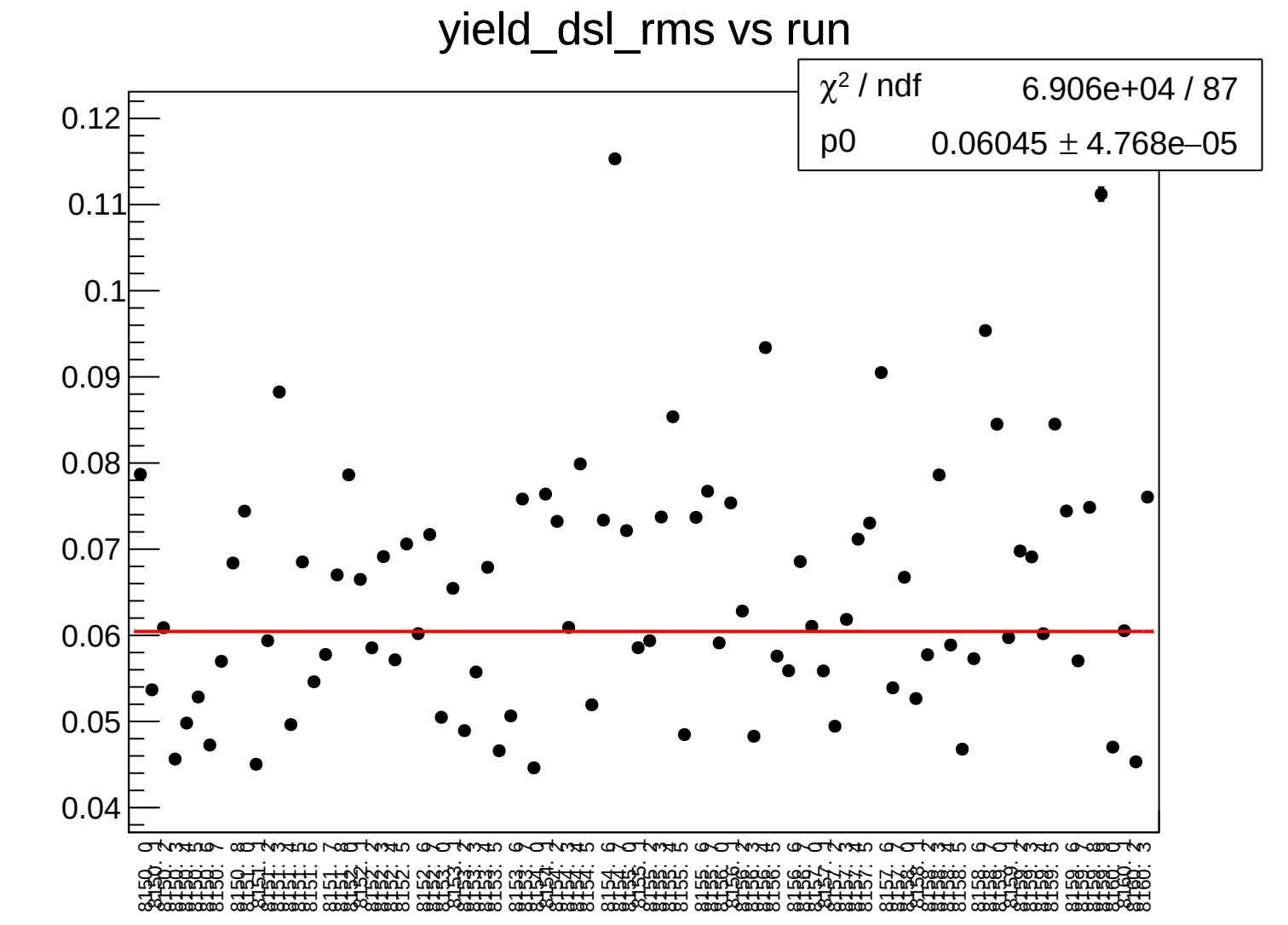

yield_usr_mean vs run
χ² / ndf 4.353e+04 / 87
p0 33.71± 0.0002105
33.85
33.8
33.75
33.7
33.65
33.6
pull
Entries 88
Mean −219.7
Std Dev 0
60
40
20
0
−20
−40

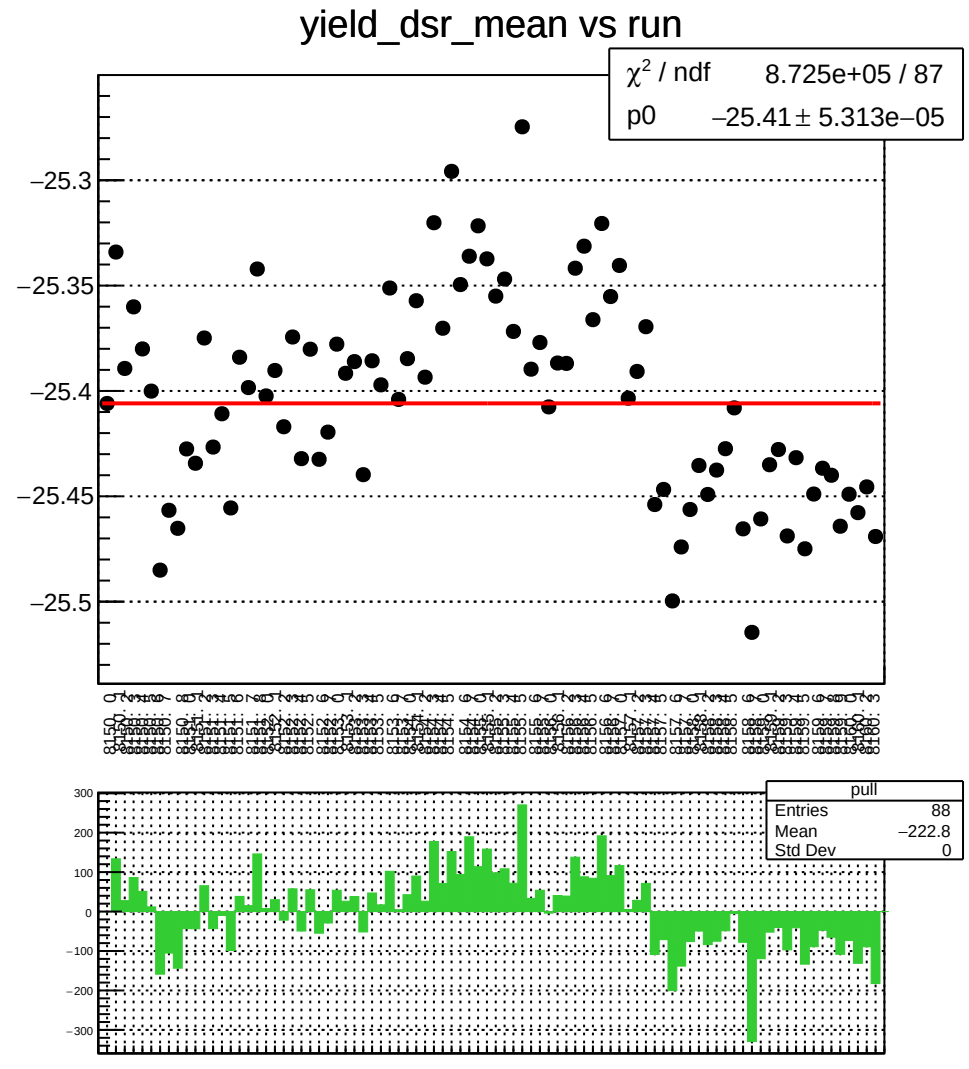

pull1D
Entries 88
Mean −1.275
Std Dev 4.717
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

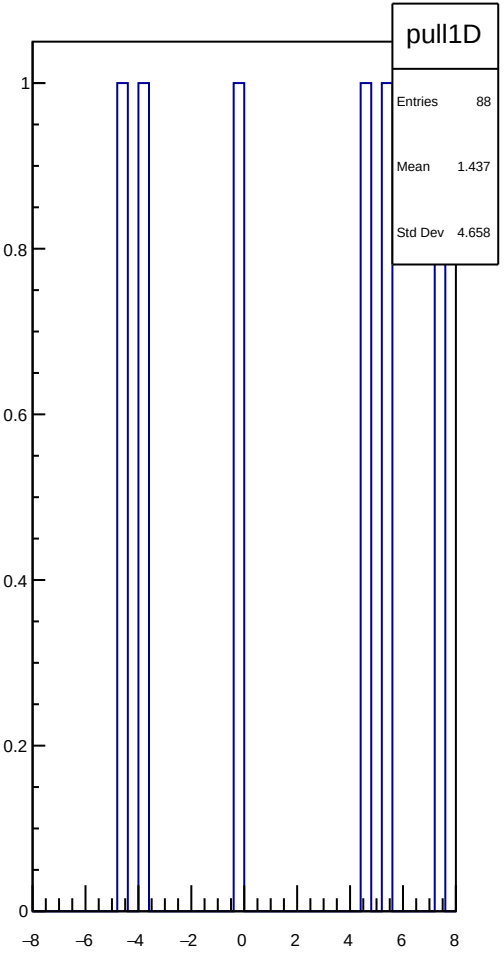

yield_usr_rms vs run
χ² / ndf 6.485e+04 / 87
p0 0.189 ± 0.0001489
0.35
0.3
0.25
0.2
0.15

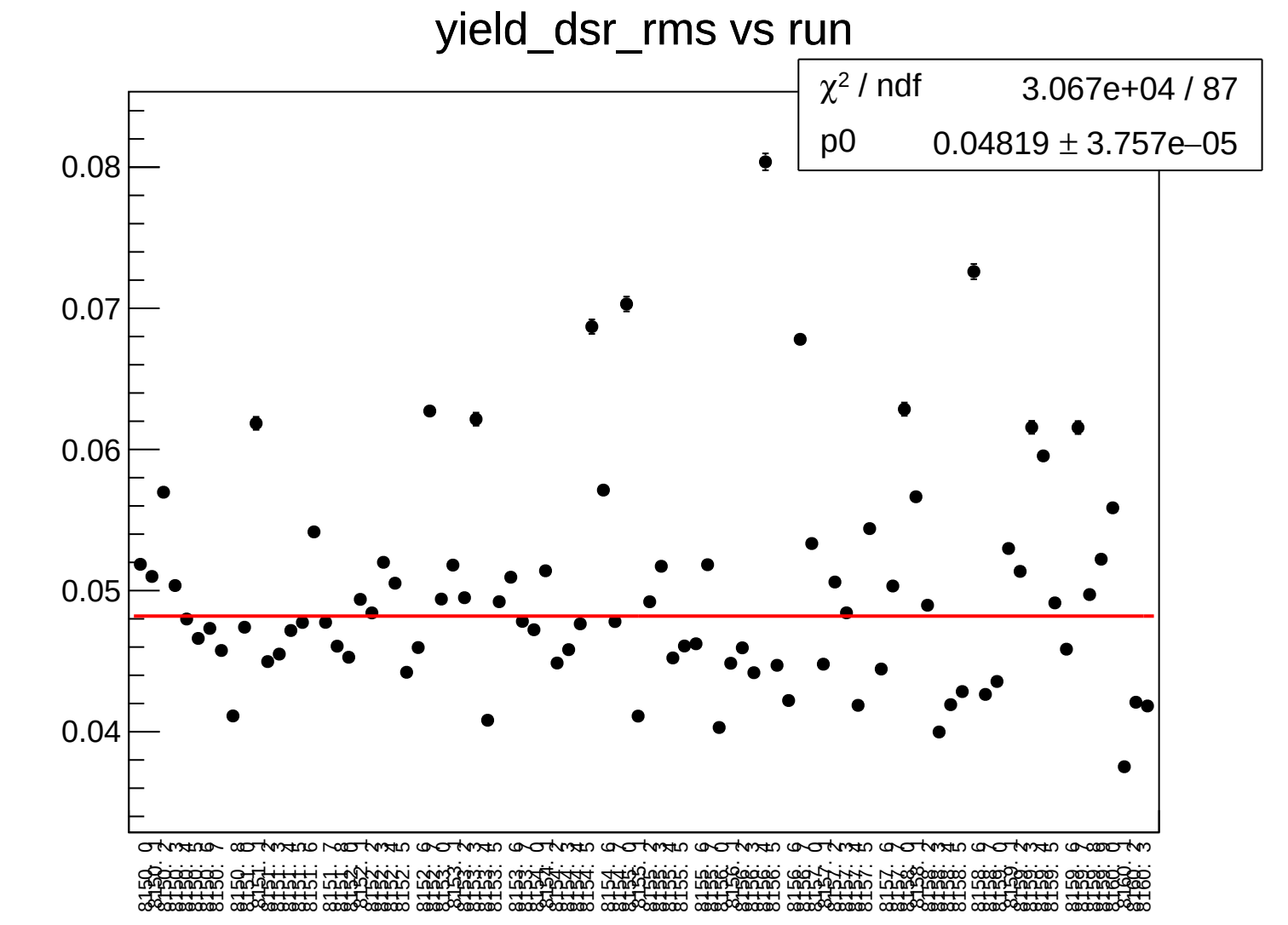

yield_dsl_mean vs run
χ² / ndf 1.273e+06 / 87
p0 −29.5 ± 6.743e−05
−29.3
−29.35
−29.4
−29.45
−29.5
−29.55
−29.6
−29.65
pull
Entries 88
Mean 154.6
Std Dev 0
300
200
100
0
−100
−200
−300

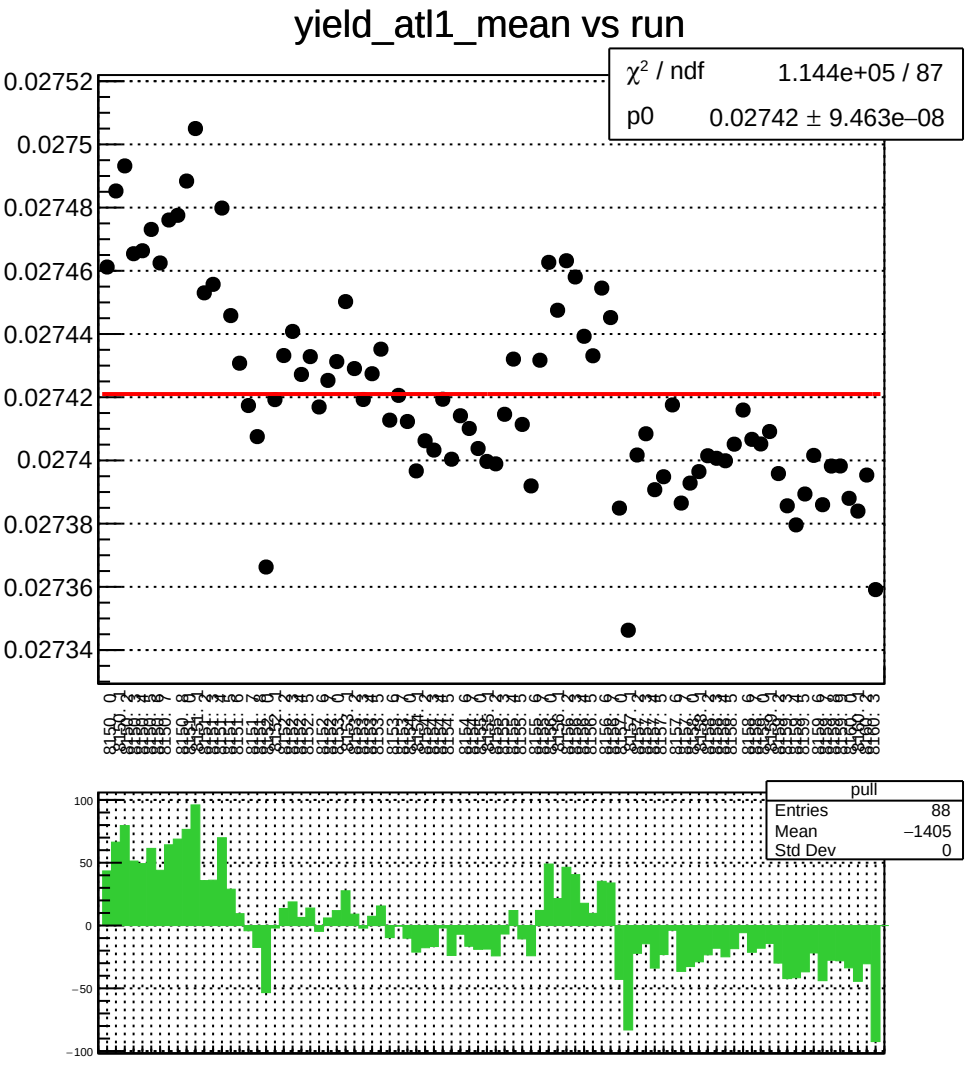

pull1D
Entries 88
Mean 4.013
Std Dev 3.769
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

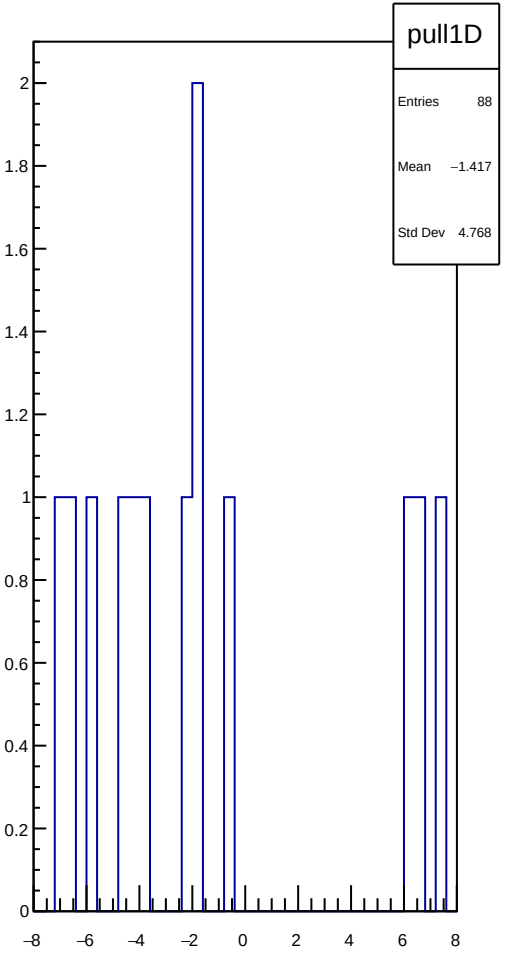

yield_dsl_rms vs run
χ² / ndf 6.906e+04 / 87
p0 0.06045 ± 4.768e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

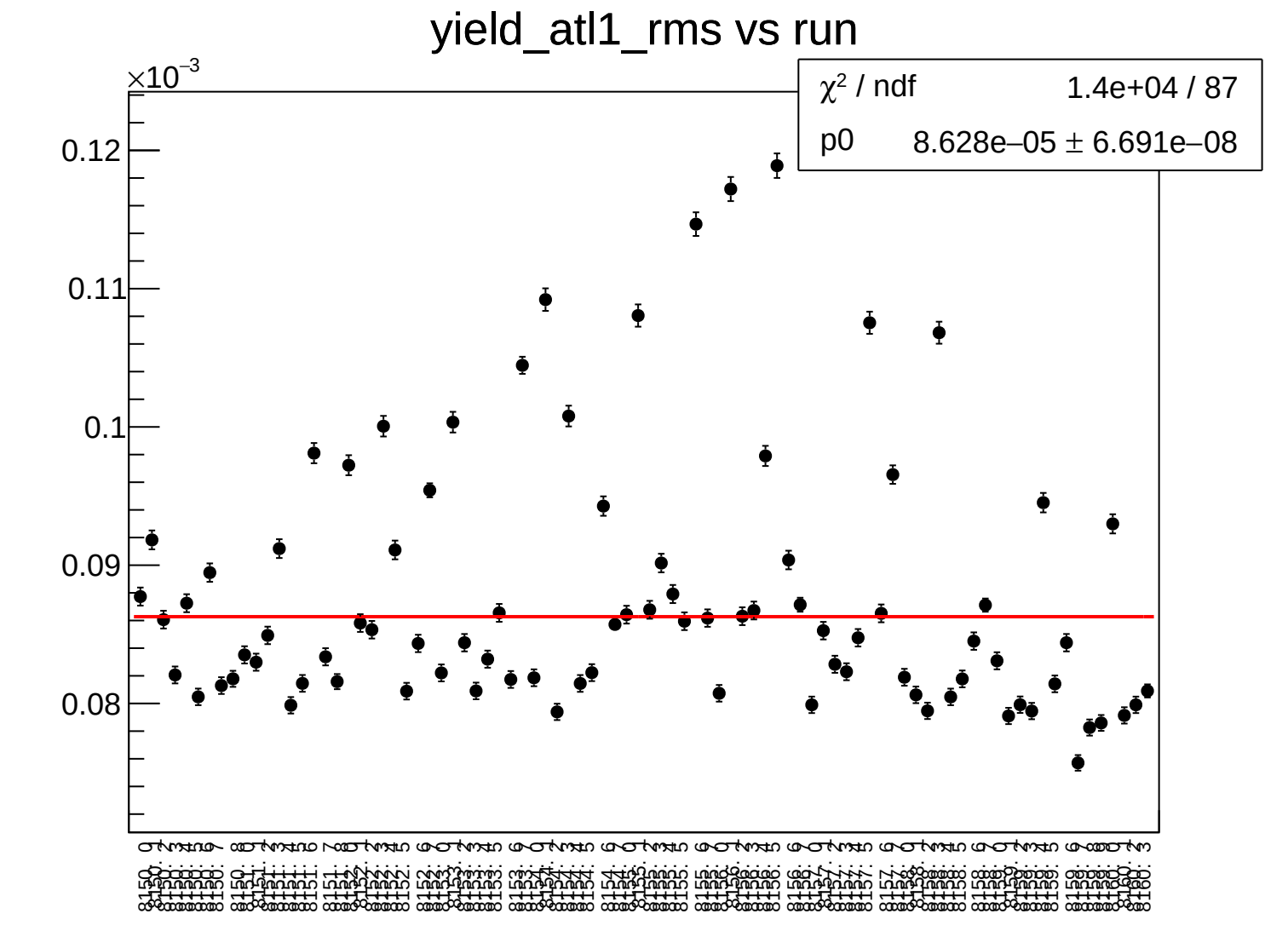

yield_dsr_mean vs run
χ² / ndf 8.725e+05 / 87
p0 −25.41 ± 5.313e−05
−25.3
−25.35
−25.4
−25.45
−25.5
pull
Entries 88
Mean −222.8
Std Dev 0
300
200
100
0
−100
−200
−300

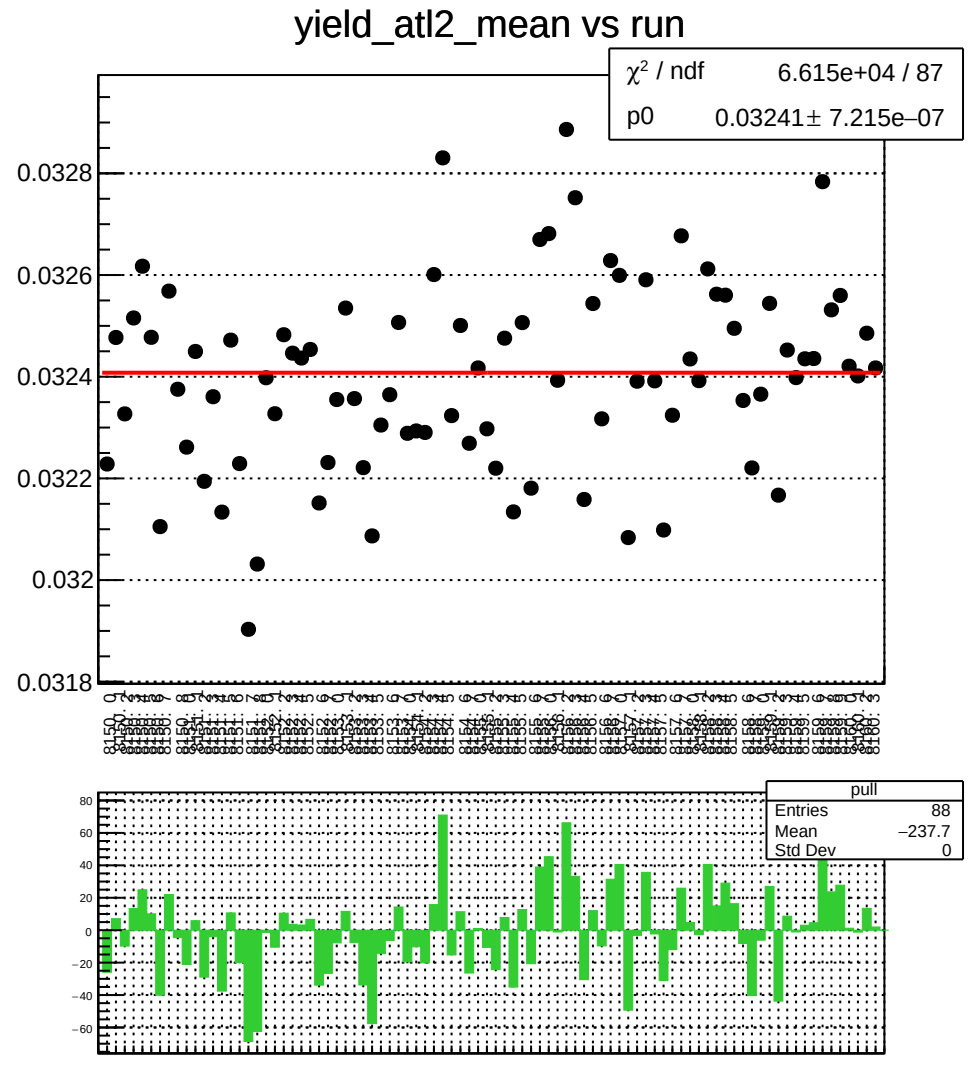

pull1D
Entries 88
Mean 1.437
Std Dev 4.658
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

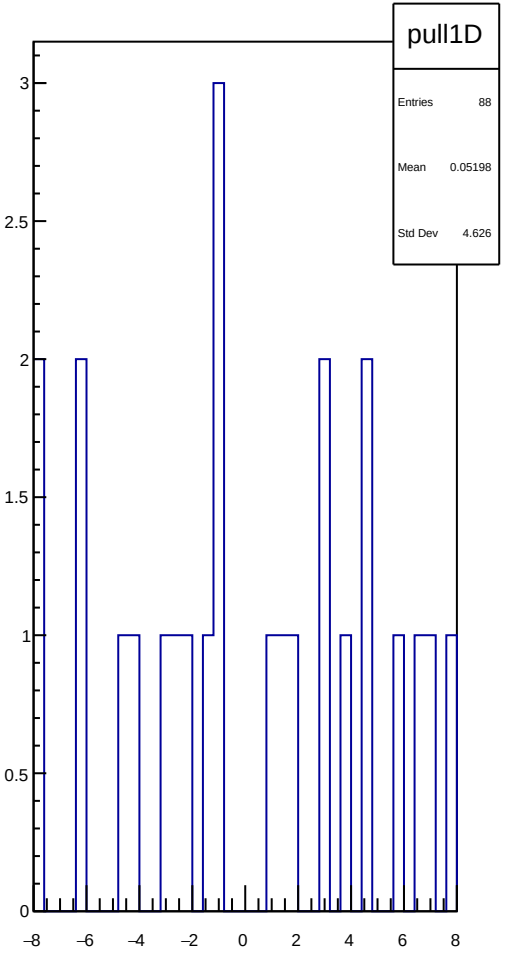

yield_dsr_rms vs run
χ² / ndf 3.067e+04 / 87
p0 0.04819 ± 3.757e–05
0.08
0.07
0.06
0.05
0.04

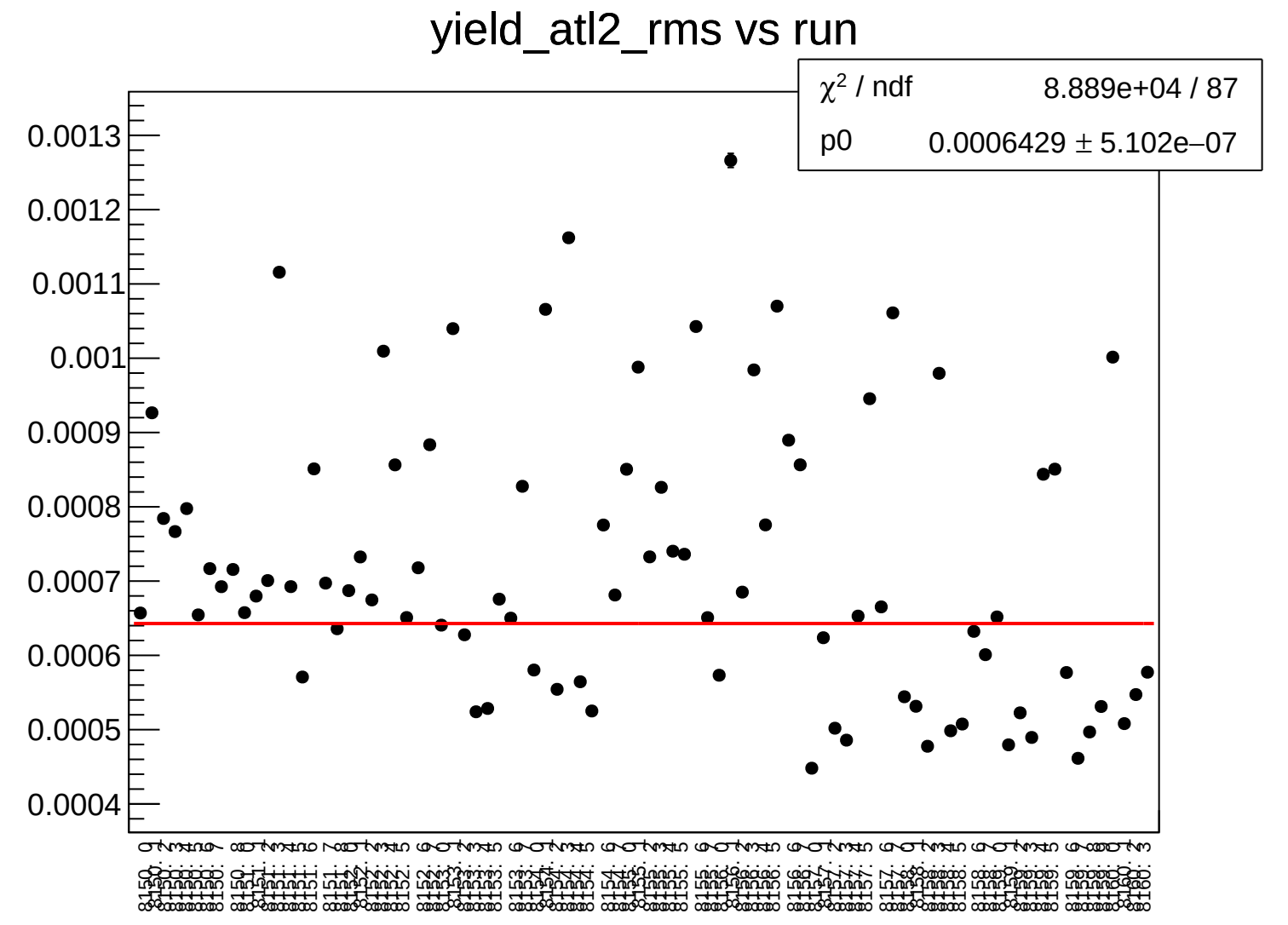

yield_atl1_mean vs run
χ² / ndf 1.144e+05 / 87
p0 0.02742 ± 9.463e−08
0.02752
0.0275
0.02748
0.02746
0.02744
0.02742
0.0274
0.02738
0.02736
0.02734
pull
Entries 88
Mean −1405
Std Dev 0
100
50
0
−50
−100

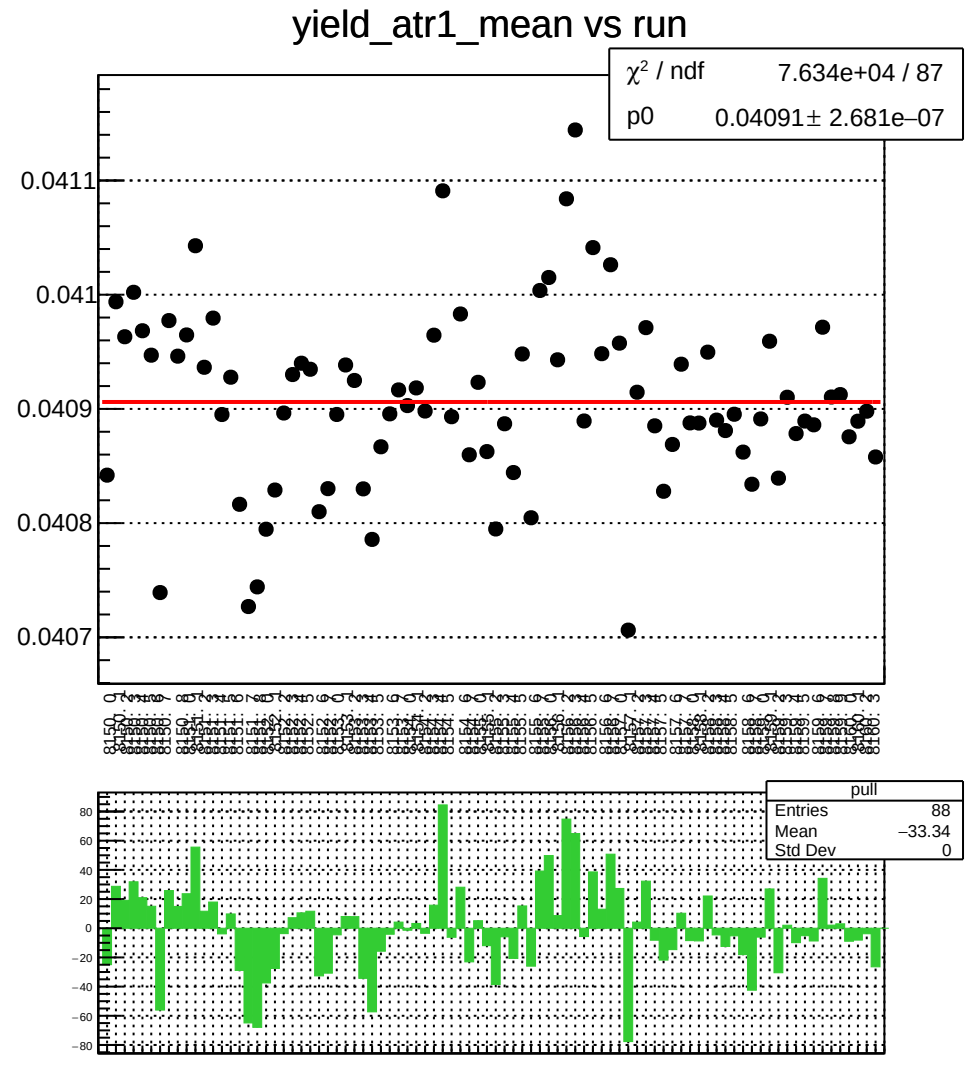

pull1D
Entries 88
Mean −1.417
Std Dev 4.768
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

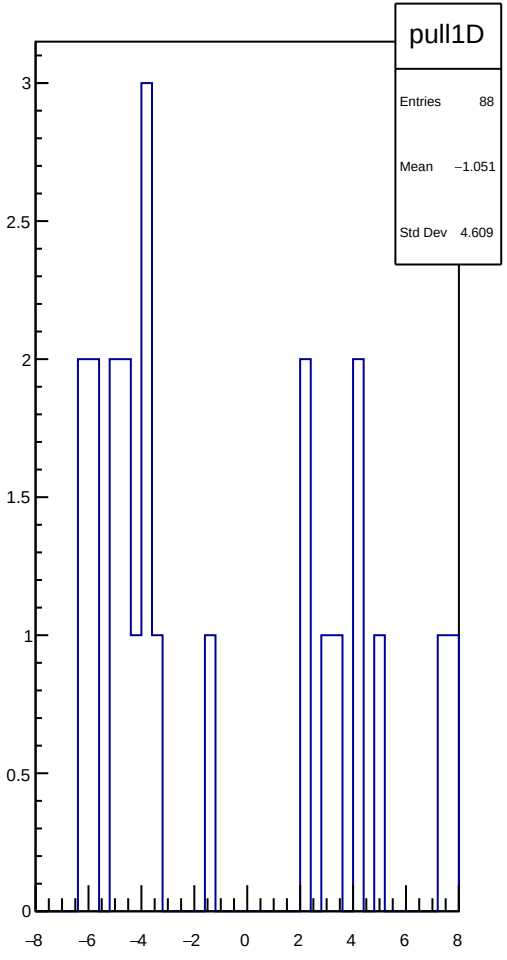

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.4e+04 / 87
p0 8.628e−05 ± 6.691e−08
0.12
0.11
0.1
0.09
0.08

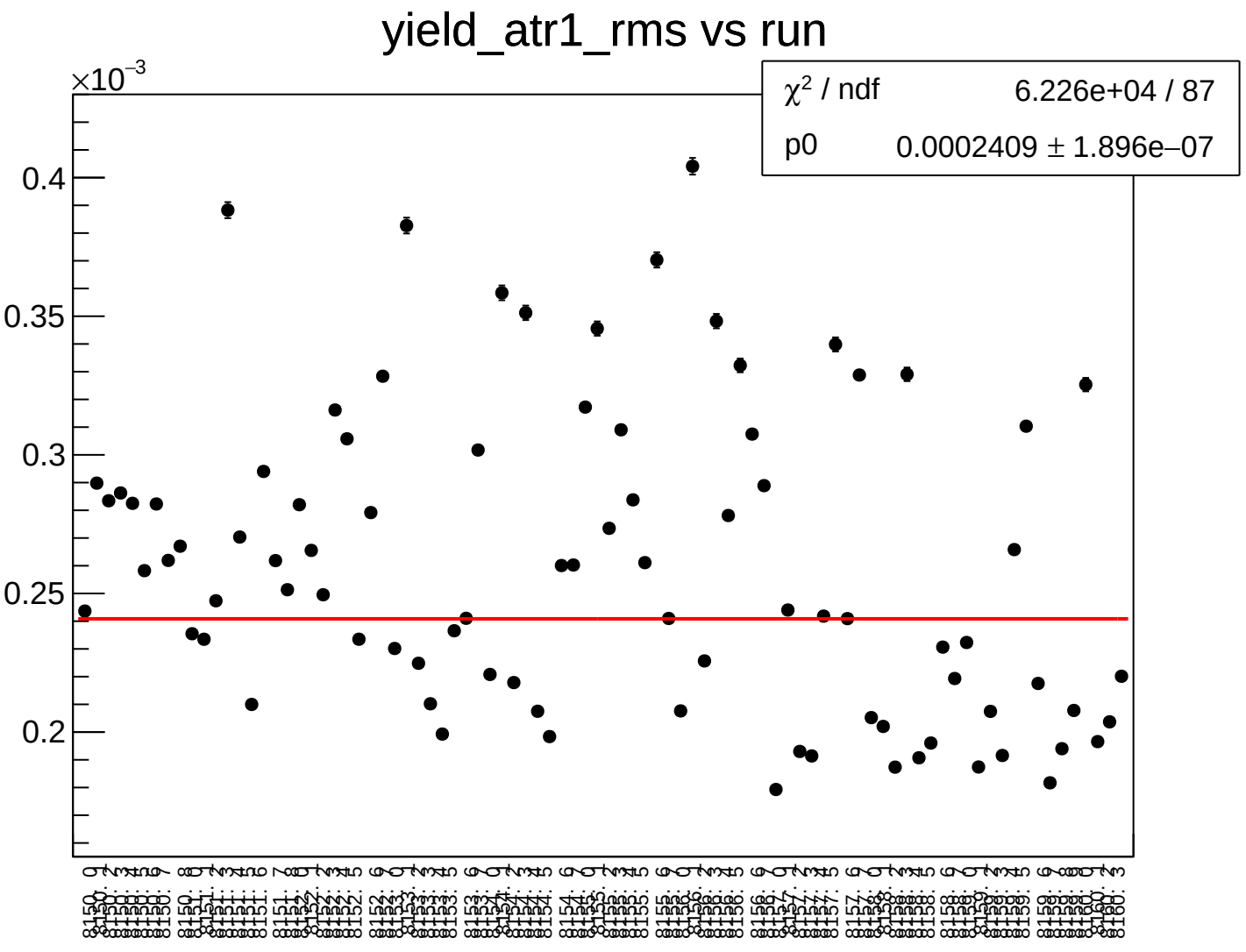

yield_atl2_mean vs run
χ² / ndf 6.615e+04 / 87
p0 0.03241± 7.215e−07
0.0328
0.0326
0.0324
0.0322
0.032
0.0318
pull
Entries 88
Mean −237.7
Std Dev 0
80
60
40
20
0
−20
−40
−60

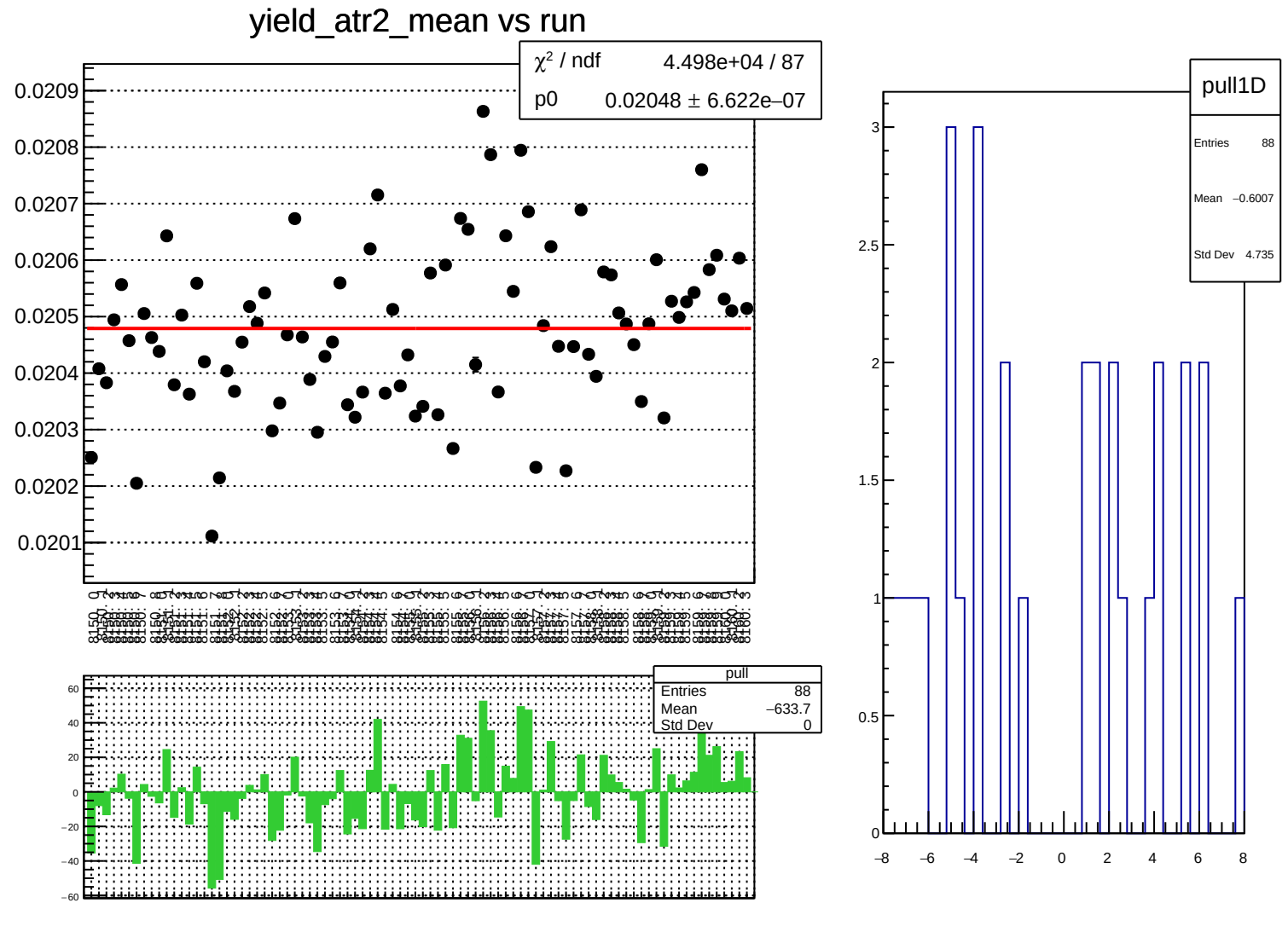

pull1D
Entries 88
Mean 0.05198
Std Dev 4.626
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

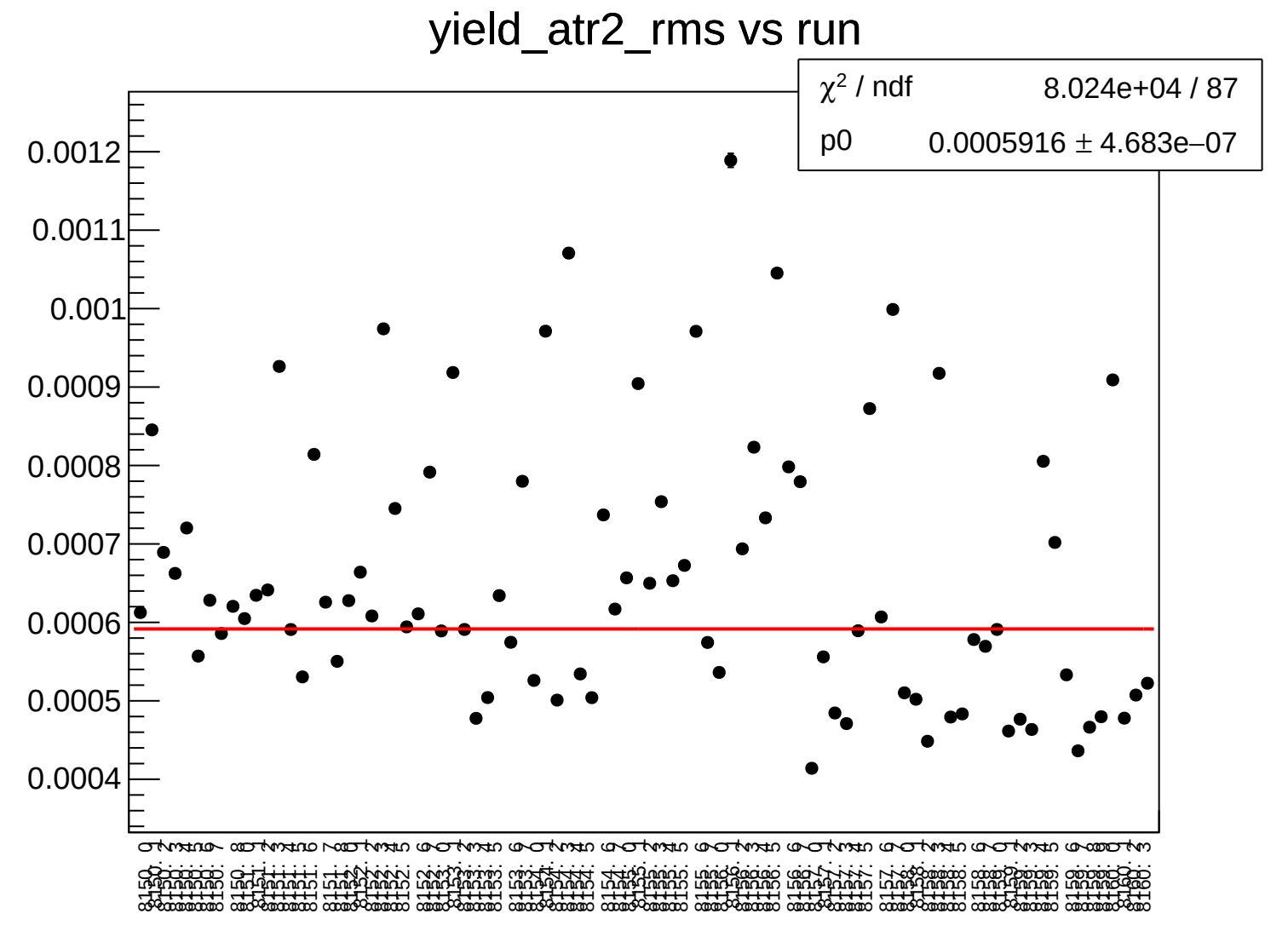

yield_atl2_rms vs run
χ² / ndf 8.889e+04 / 87
p0 0.0006429 ± 5.102e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

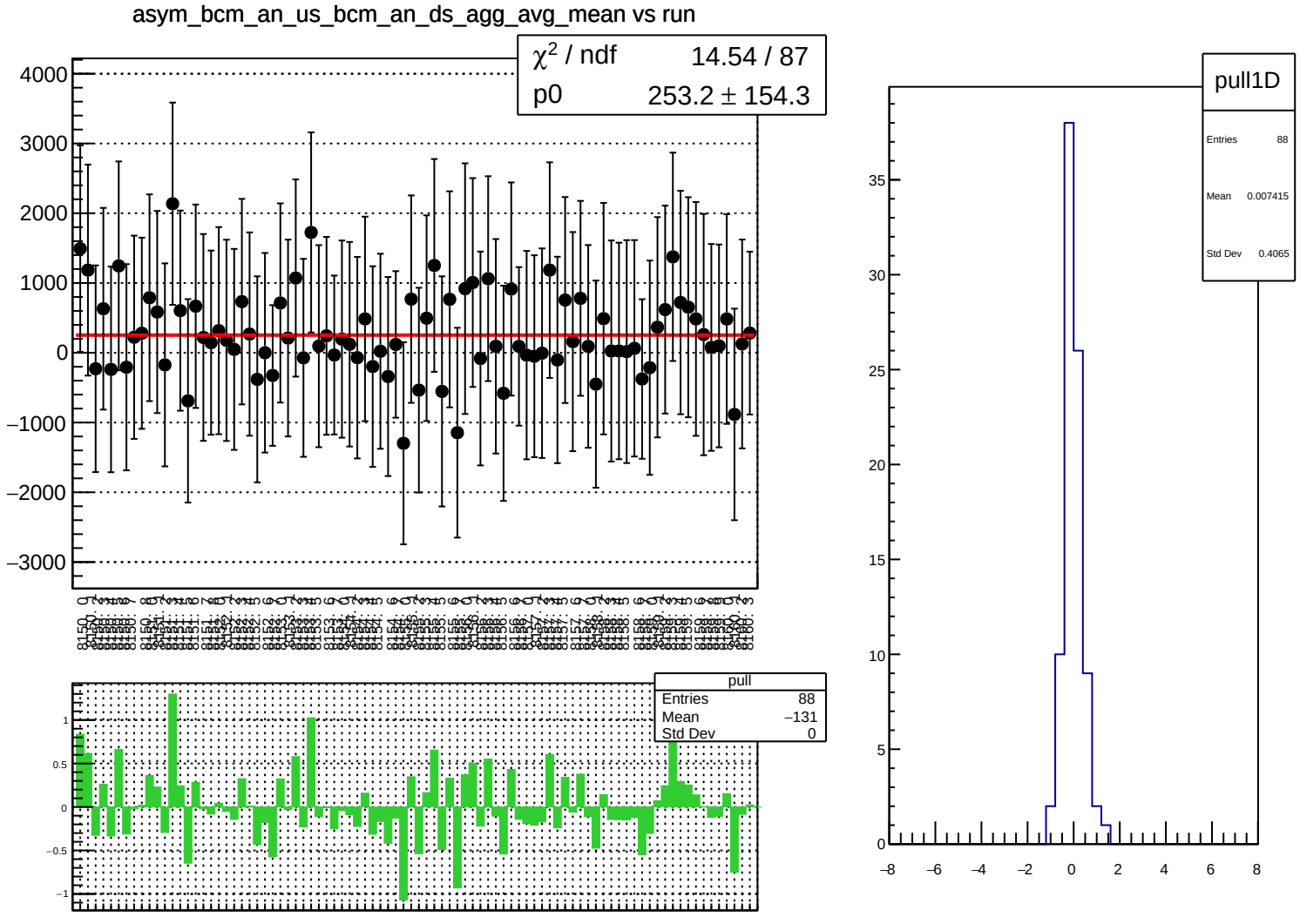

yield_atr1_mean vs run
χ² / ndf 7.634e+04 / 87
p0 0.04091± 2.681e–07
0.0411
0.041
0.0409
0.0408
0.0407
pull
Entries 88
Mean –33.34
Std Dev 0
80
60
40
20
0
–20
–40
–60
–80

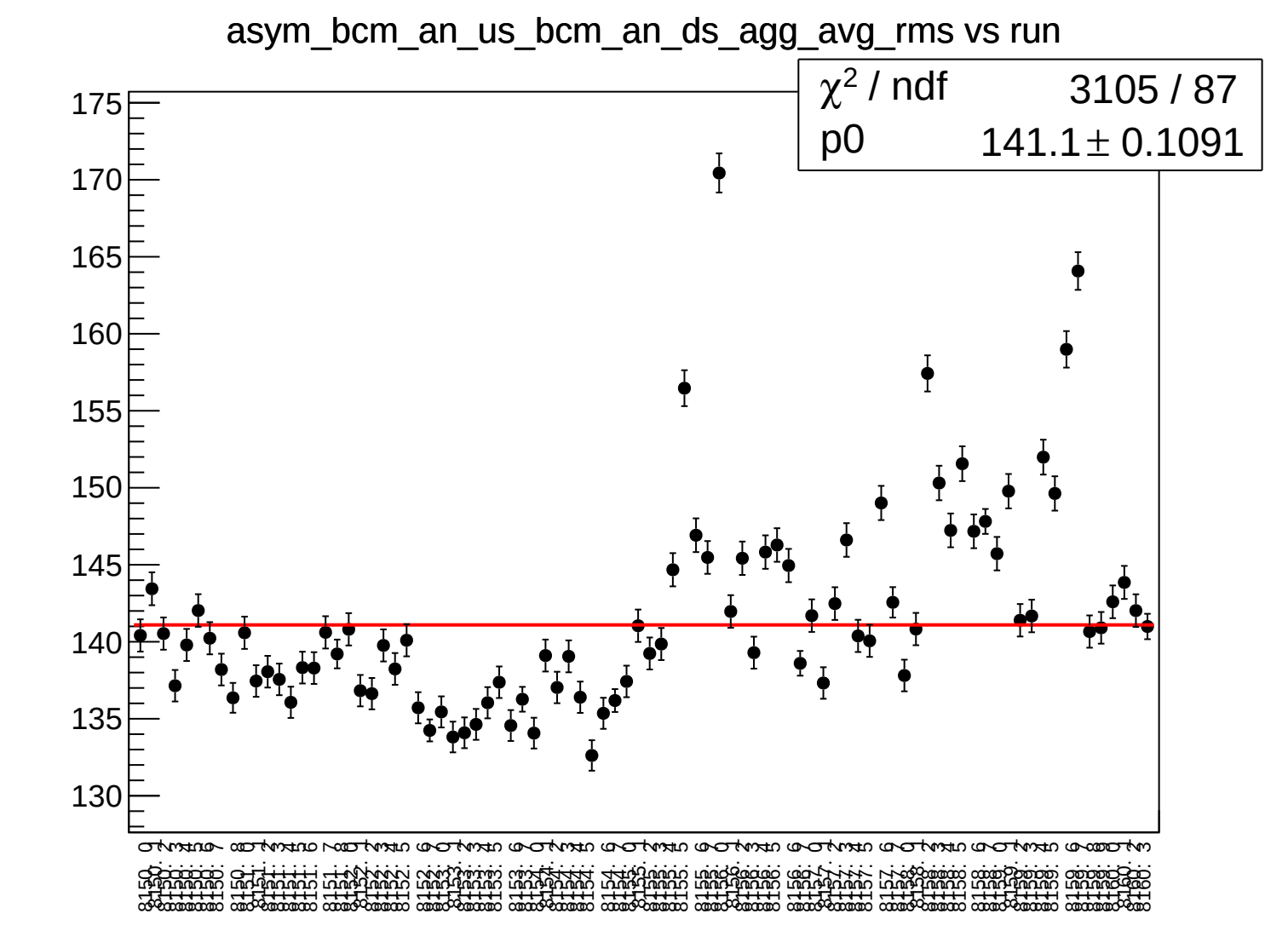

pull1D
Entries 88
Mean –1.051
Std Dev 4.609
3
2.5
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8

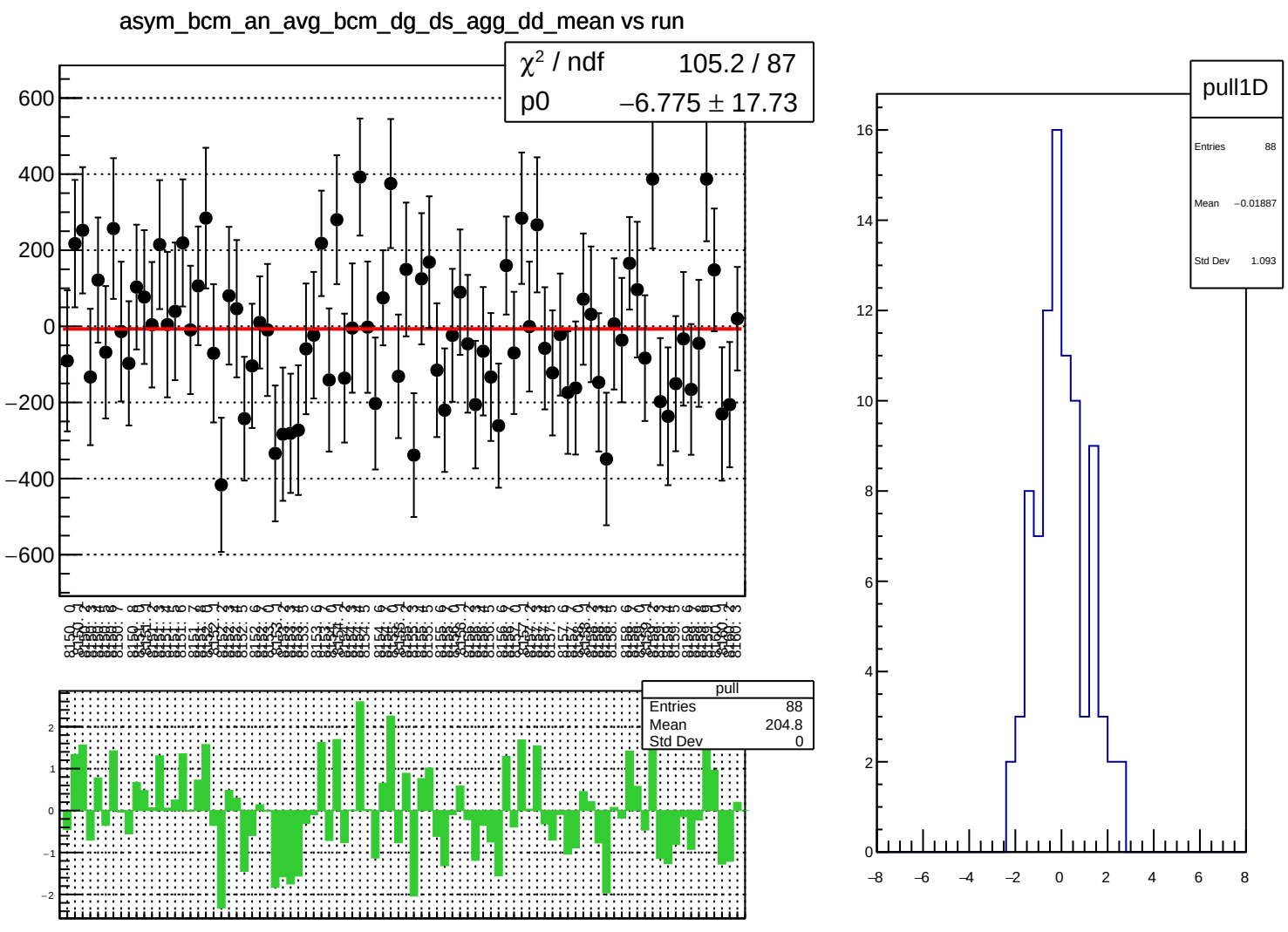

yield_atr1_rms vs run
×10⁻³
χ² / ndf 6.226e+04 / 87
p0 0.0002409 ± 1.896e−07
0.4
0.35
0.3
0.25
0.2

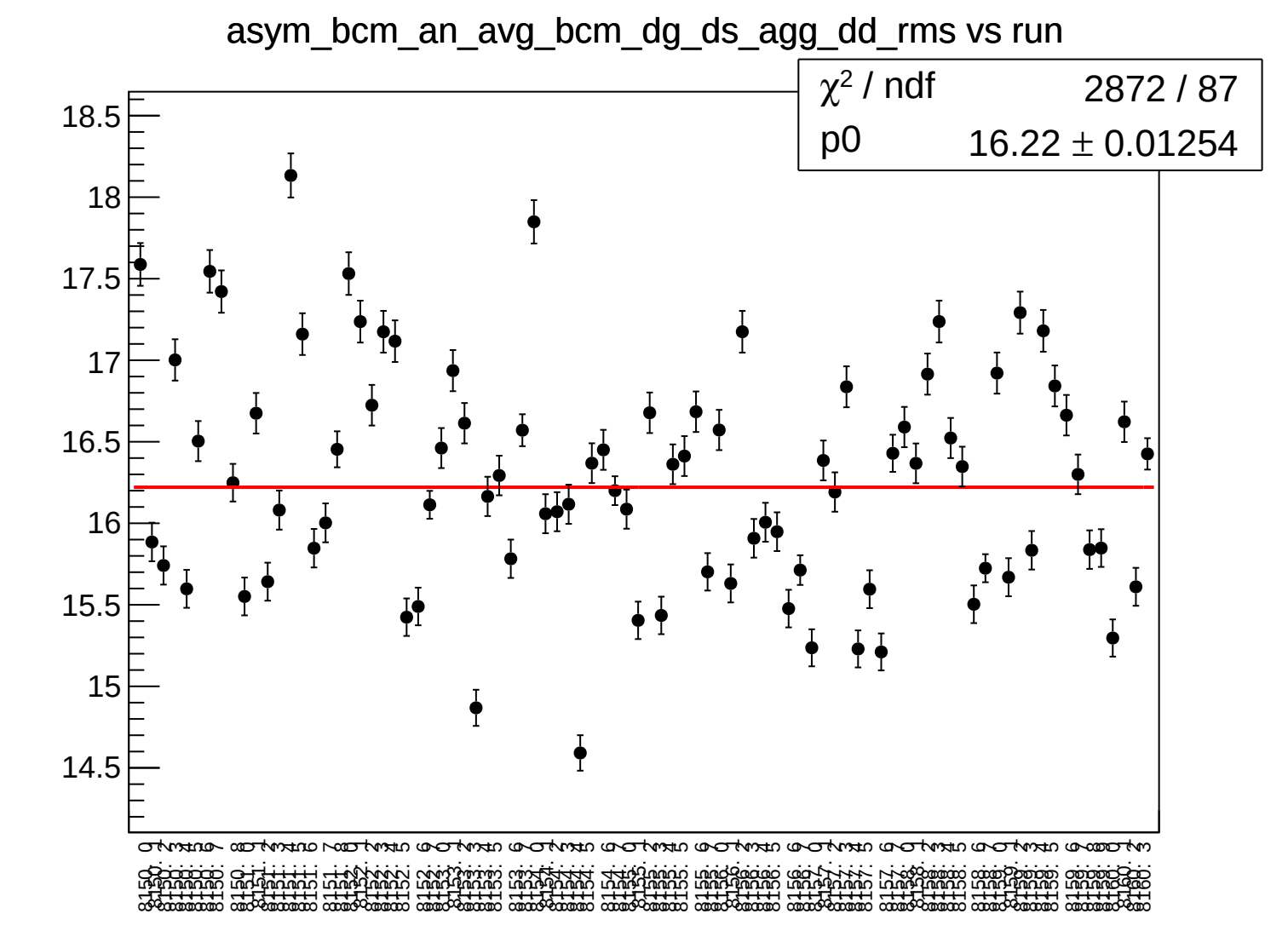

yield_atr2_mean vs run
χ² / ndf 4.498e+04 / 87
p0 0.02048 ± 6.622e−07
0.0209
0.0208
0.0207
0.0206
0.0205
0.0204
0.0203
0.0202
0.0201
pull
Entries 88
Mean −633.7
Std Dev 0
60
40
20
0
−20
−40
−60
pull1D
Entries 88
Mean −0.6007
Std Dev 4.735
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

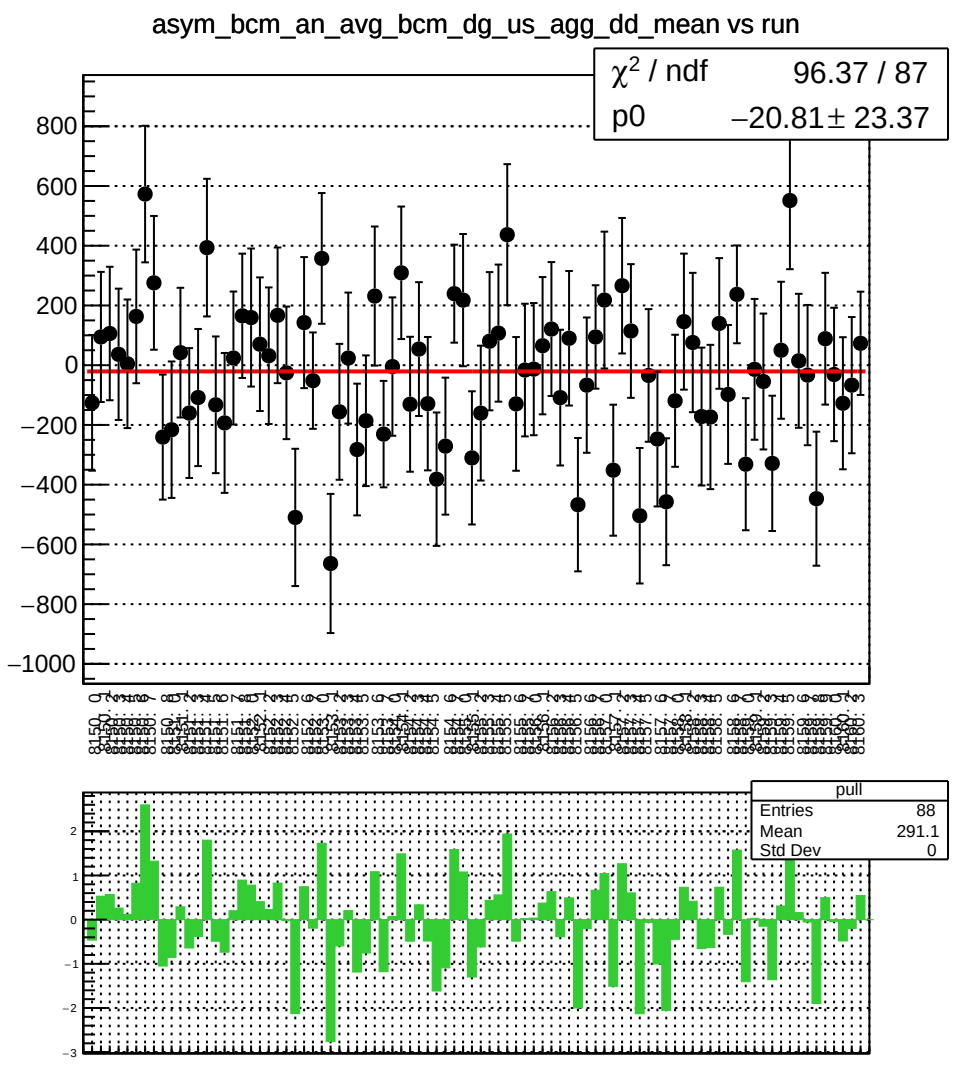

yield_atr2_rms vs run
χ² / ndf 8.024e+04 / 87
p0 0.0005916 ± 4.683e−07
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

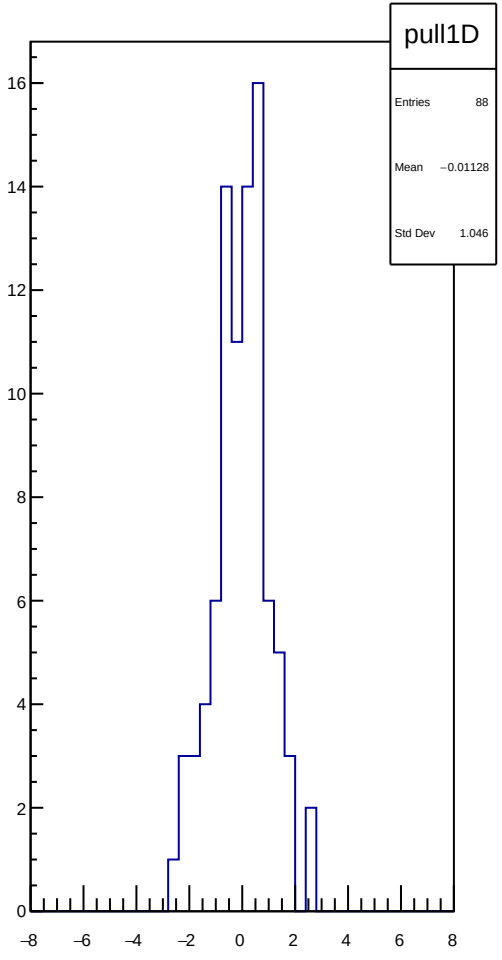

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.54 / 87
p0 253.2 ± 154.3
pull
Entries 88
Mean −131
Std Dev 0
pull1D
Entries 88
Mean 0.007415
Std Dev 0.4065

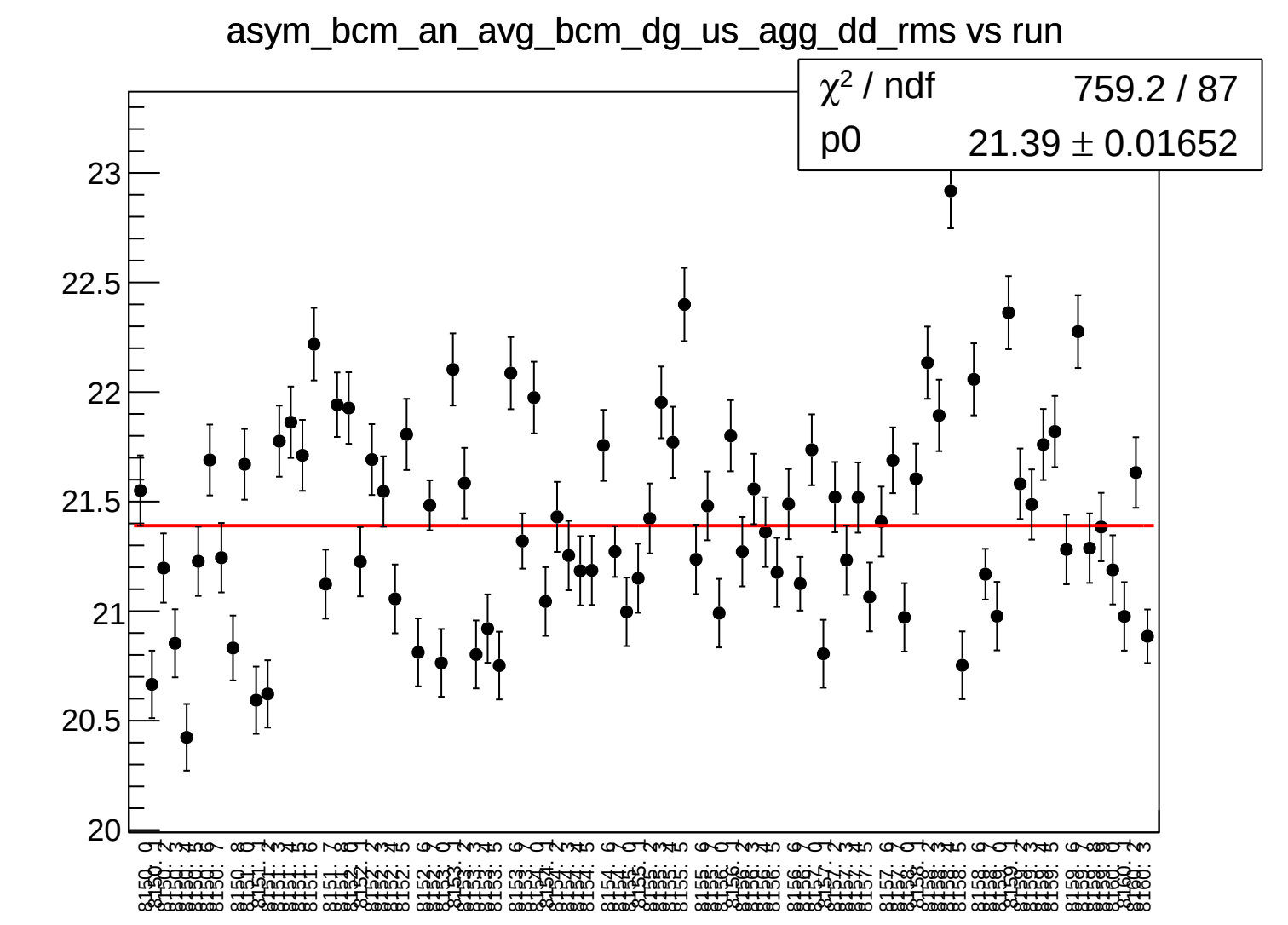

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3105 / 87
p0 141.1 ± 0.1091
175
170
165
160
155
150
145
140
135
130

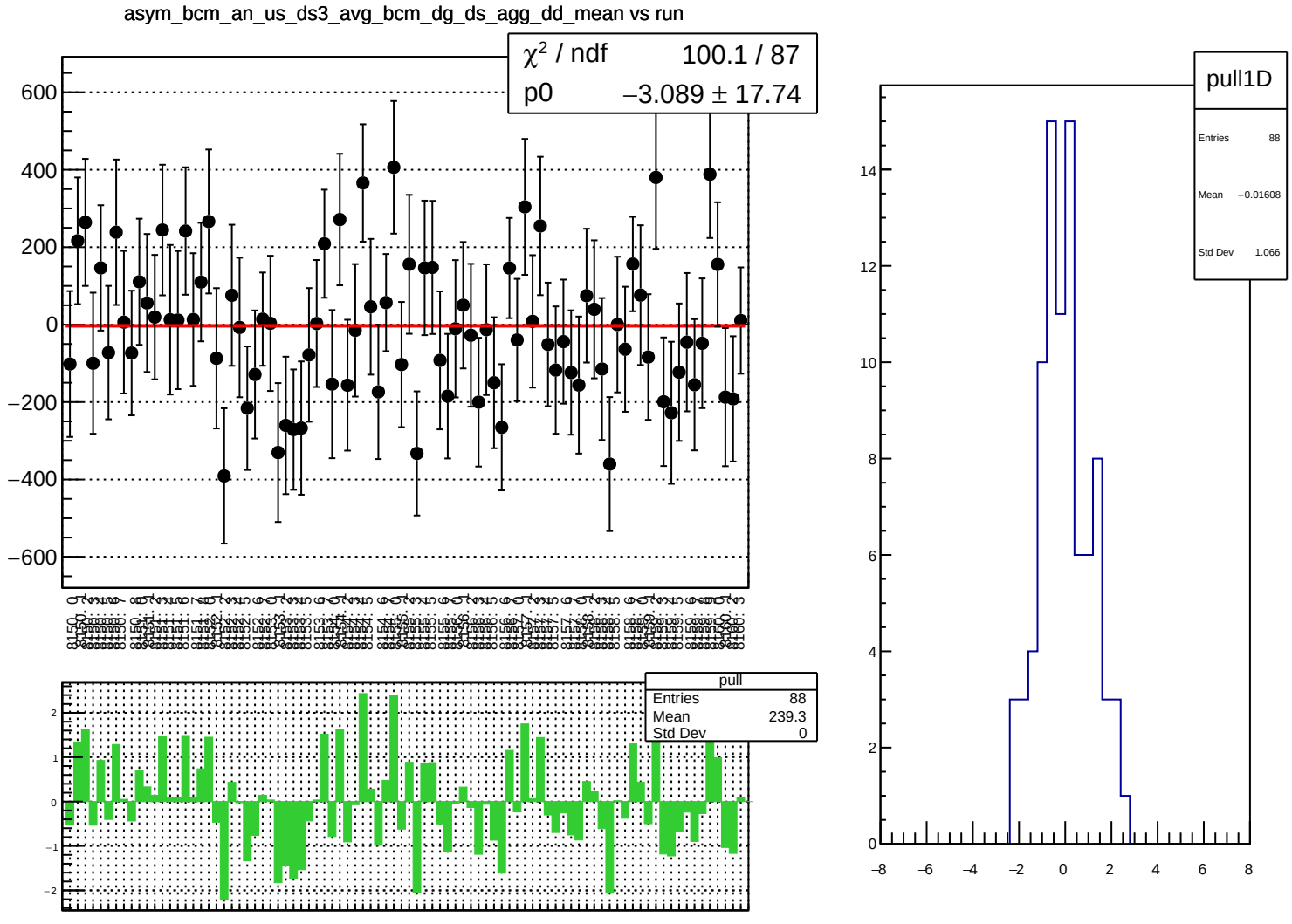

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 105.2 / 87
p0 −6.775 ± 17.73
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean 204.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01887
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

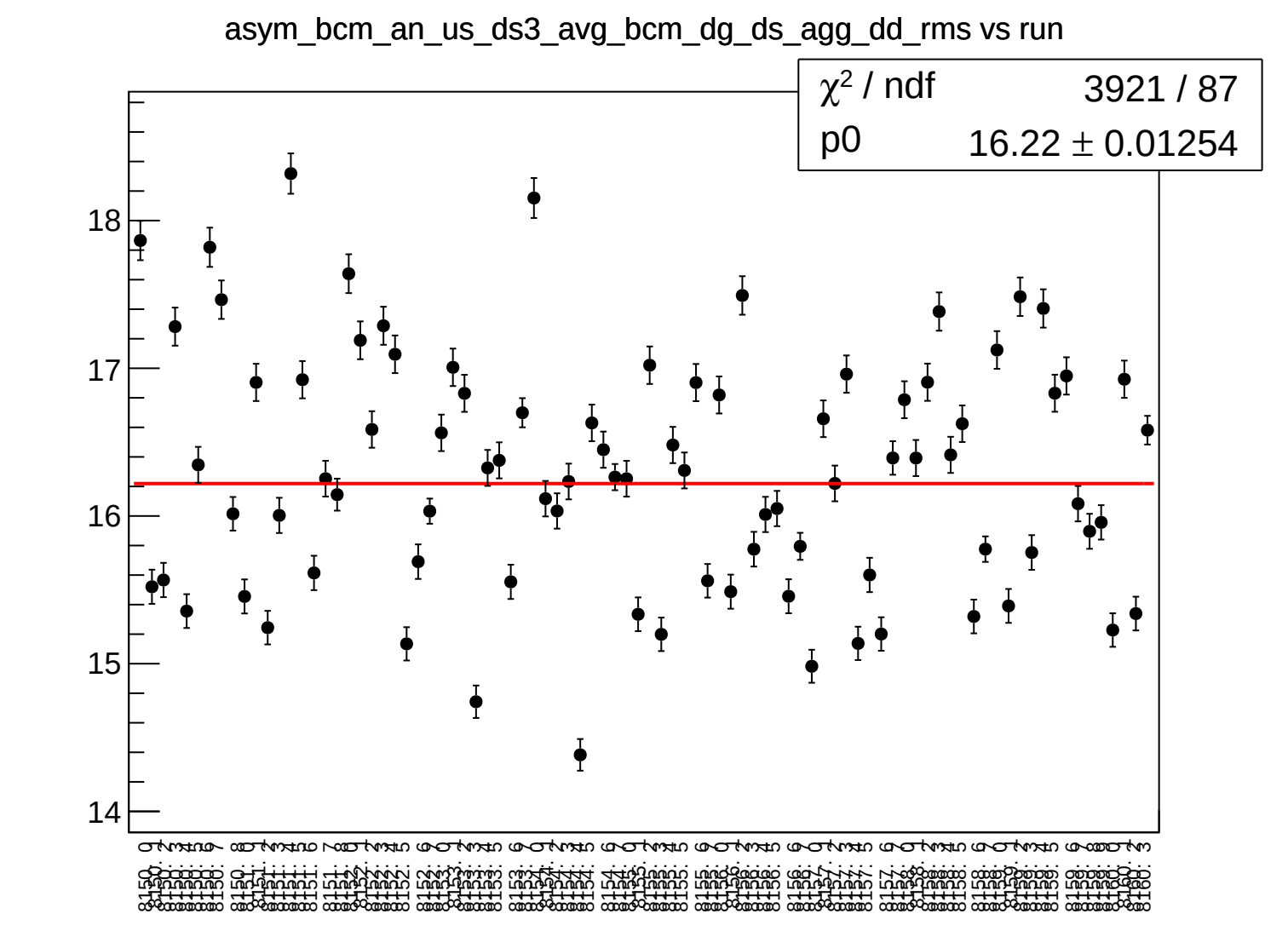

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2872 / 87
p0 16.22 ± 0.01254
18.5
18
17.5
17
16.5
16
15.5
15
14.5

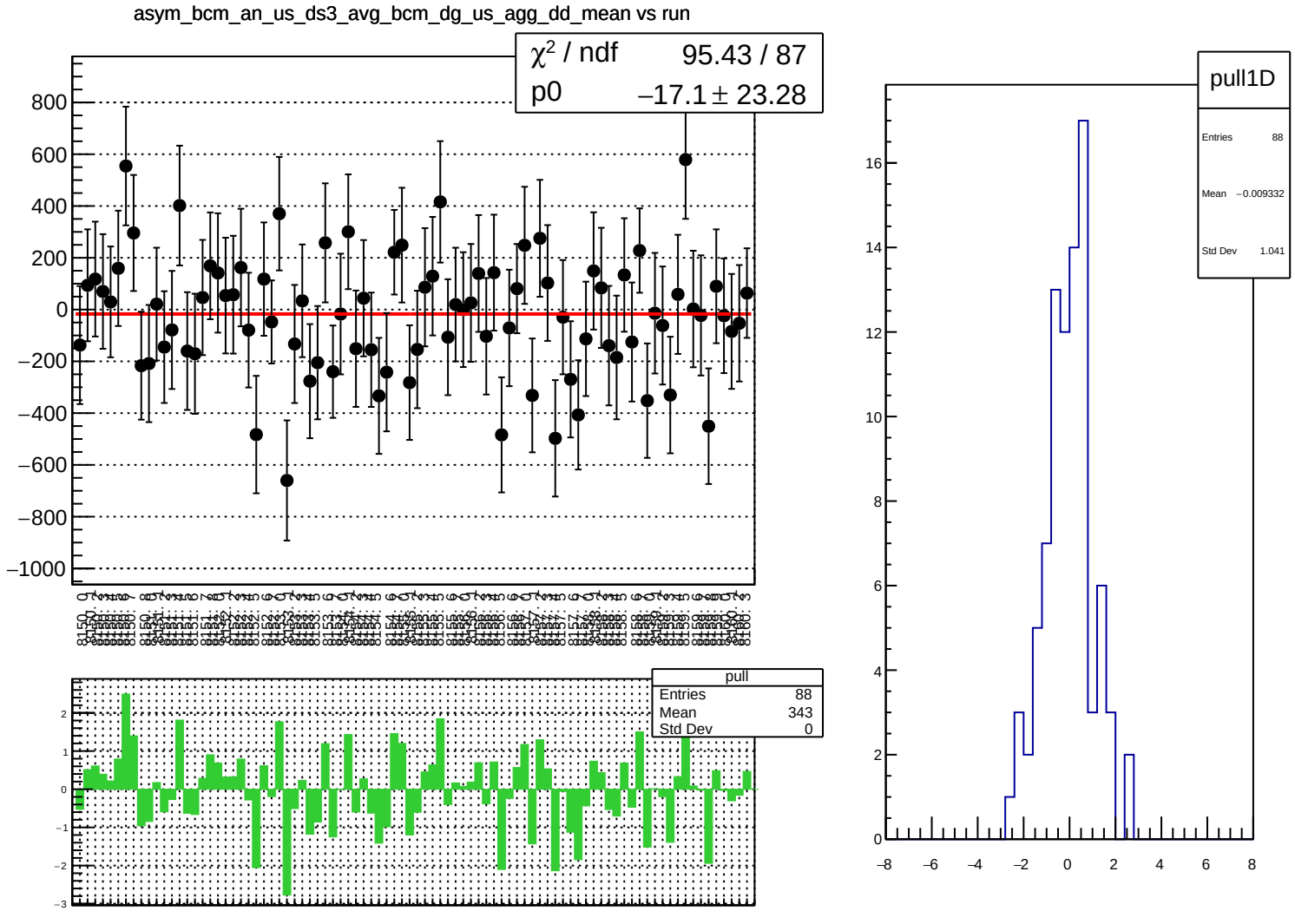

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 96.37 / 87
p0 −20.81 ± 23.37
pull
Entries 88
Mean 291.1
Std Dev 0

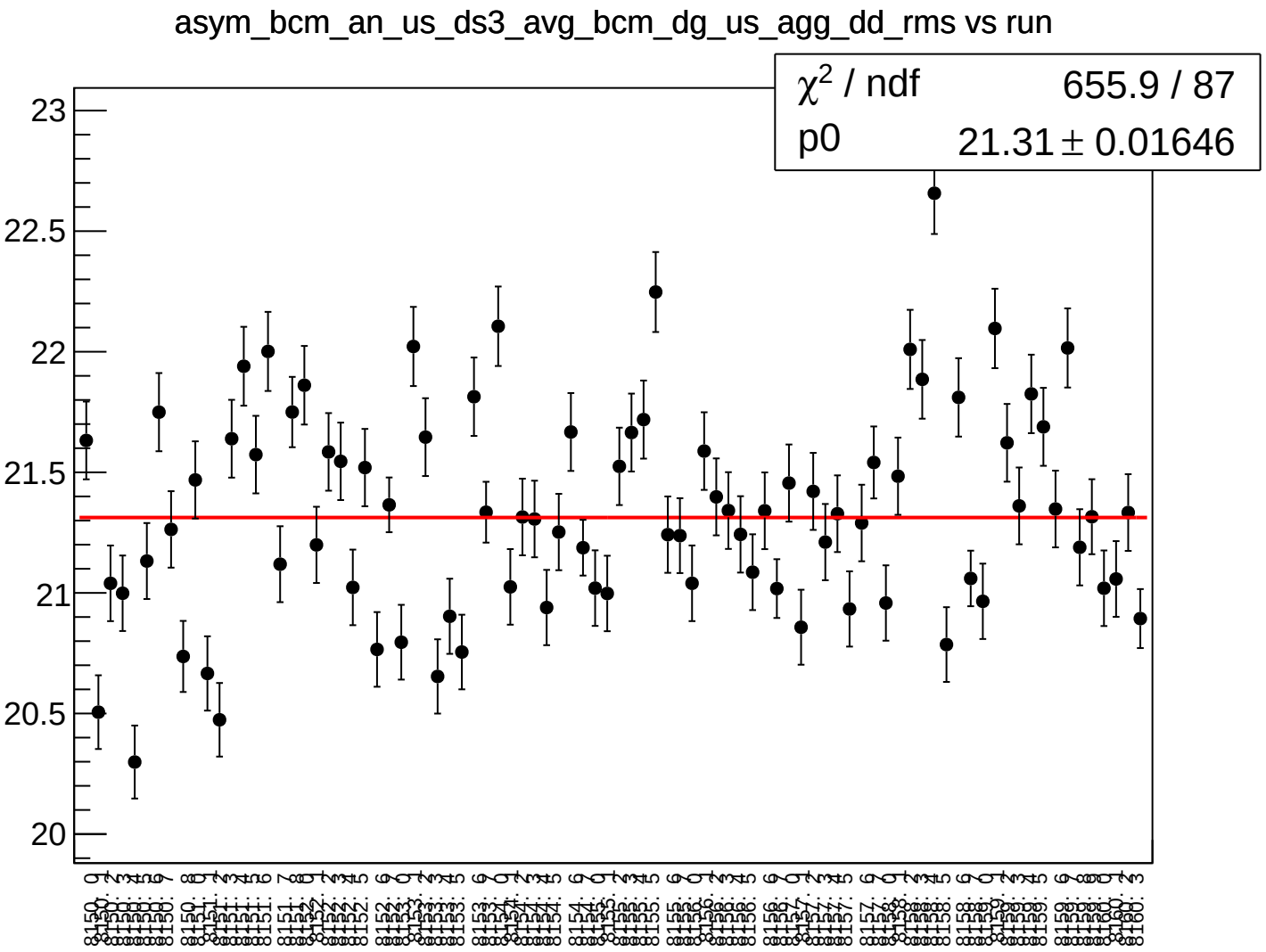

pull1D
Entries 88
Mean −0.01128
Std Dev 1.046

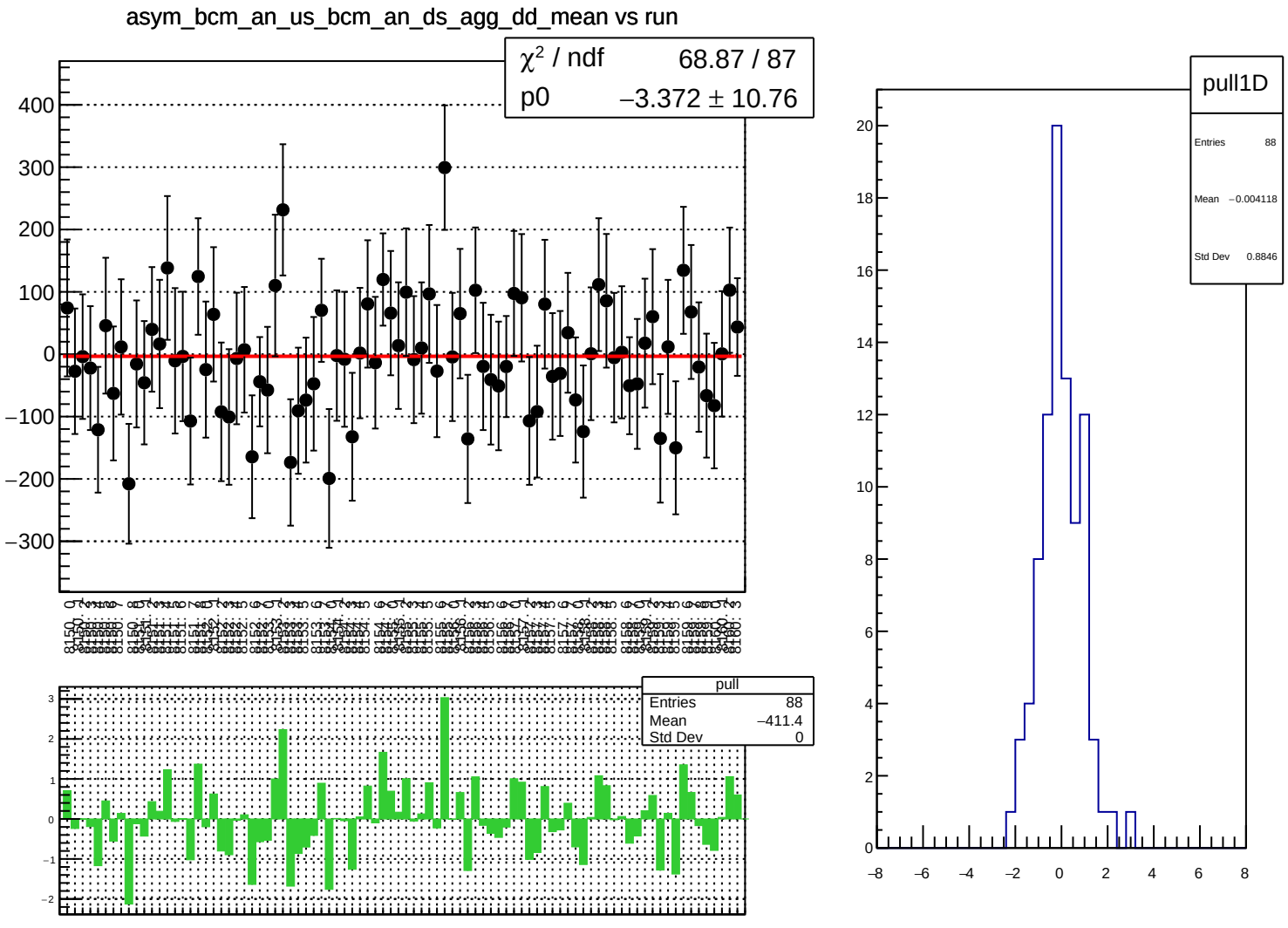

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 759.2 / 87
p0 21.39 ± 0.01652
23
22.5
22
21.5
21
20.5
20

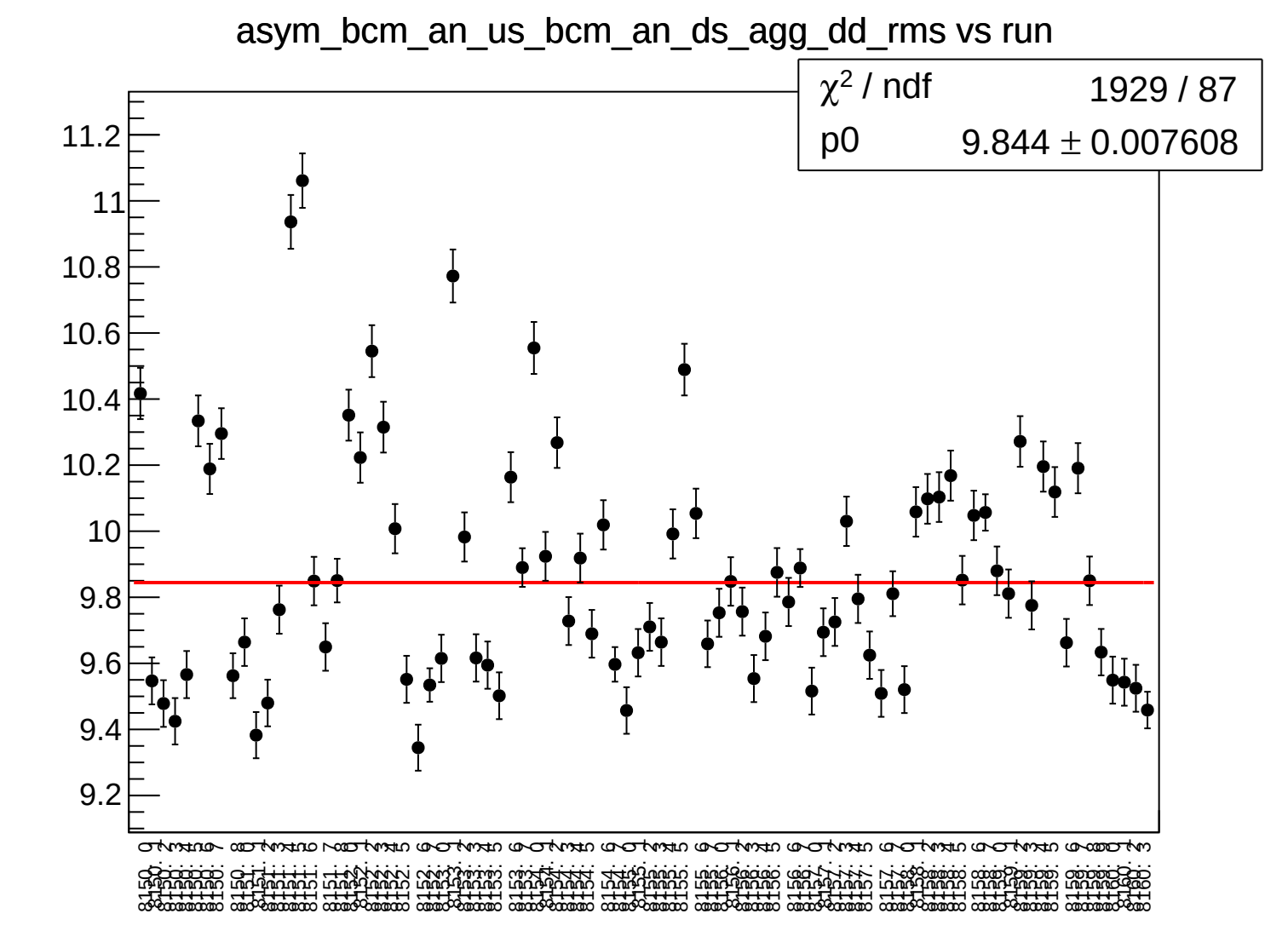

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 100.1 / 87
p0 −3.089 ± 17.74
pull
Entries 88
Mean 239.3
Std Dev 0
pull1D
Entries 88
Mean −0.01608
Std Dev 1.066

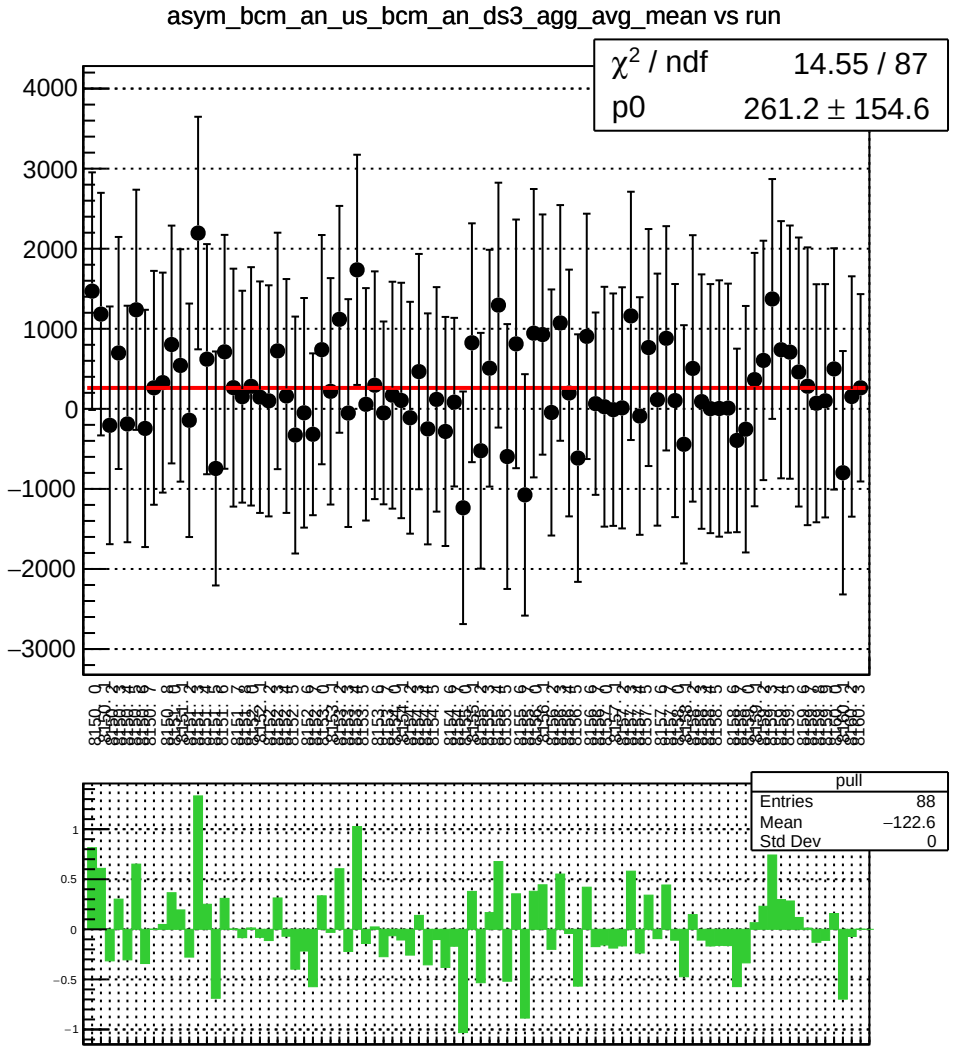

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3921 / 87
p0 16.22 ± 0.01254
18
17
16
15
14

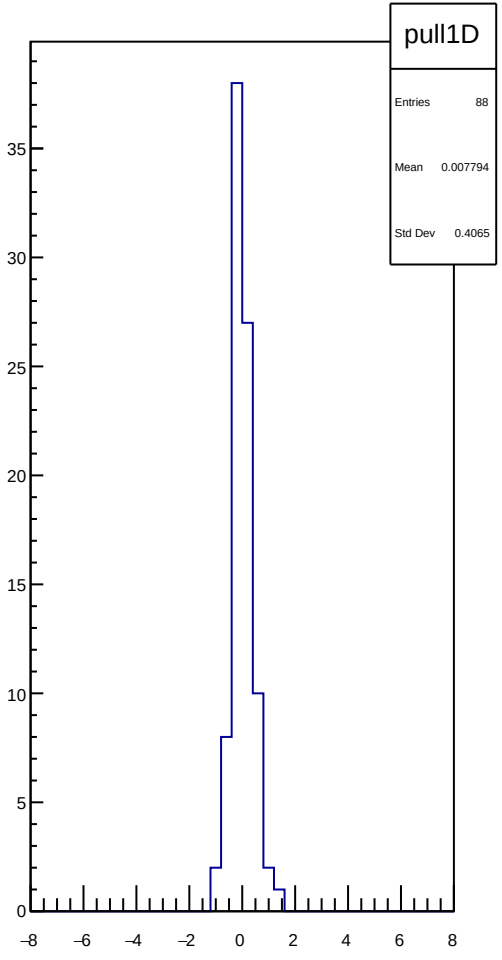

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 95.43 / 87
p0 −17.1 ± 23.28
pull
Entries 88
Mean 343
Std Dev 0
pull1D
Entries 88
Mean −0.009332
Std Dev 1.041

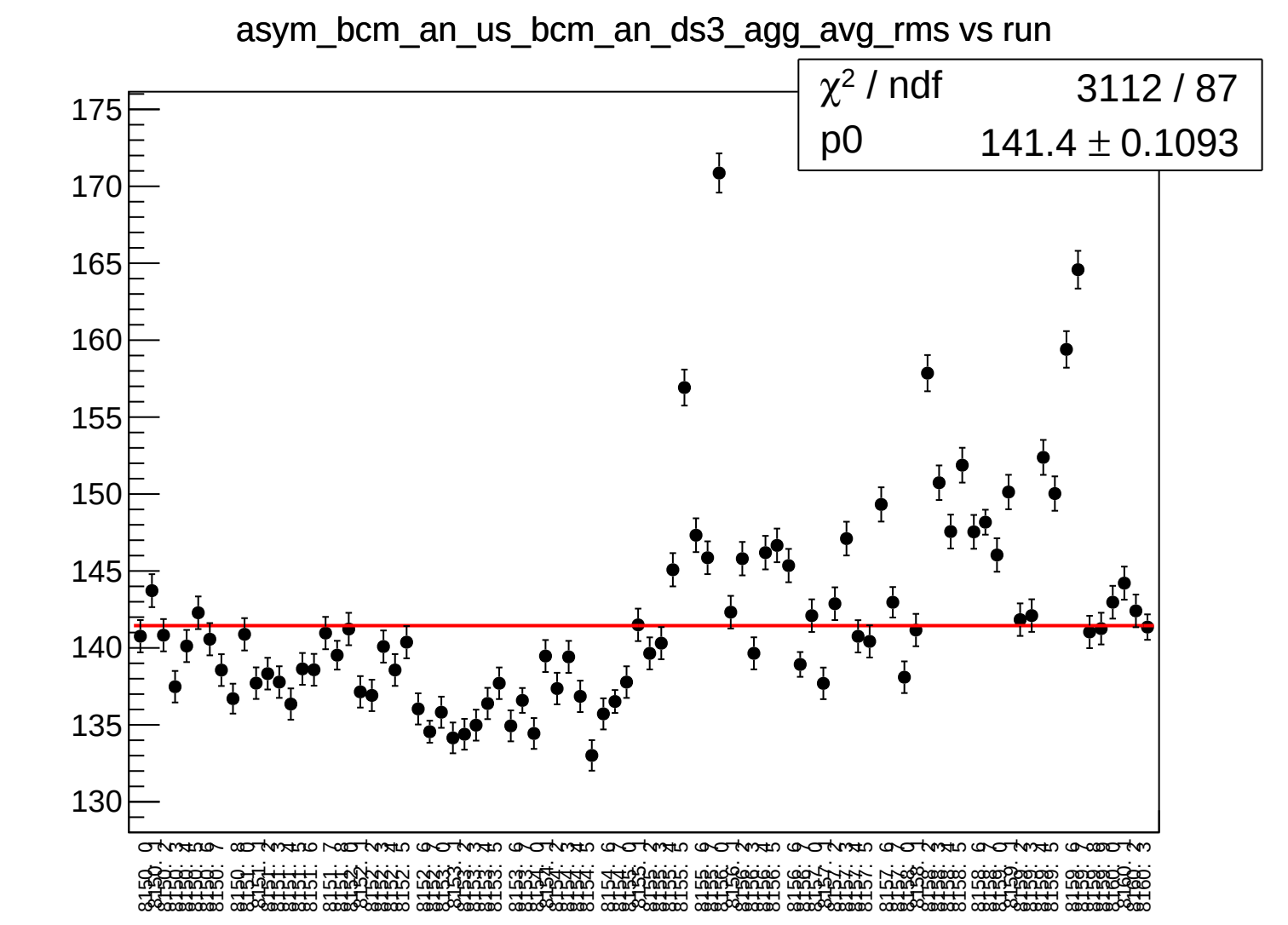

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 655.9 / 87
p0 21.31 ± 0.01646
23
22.5
22
21.5
21
20.5
20

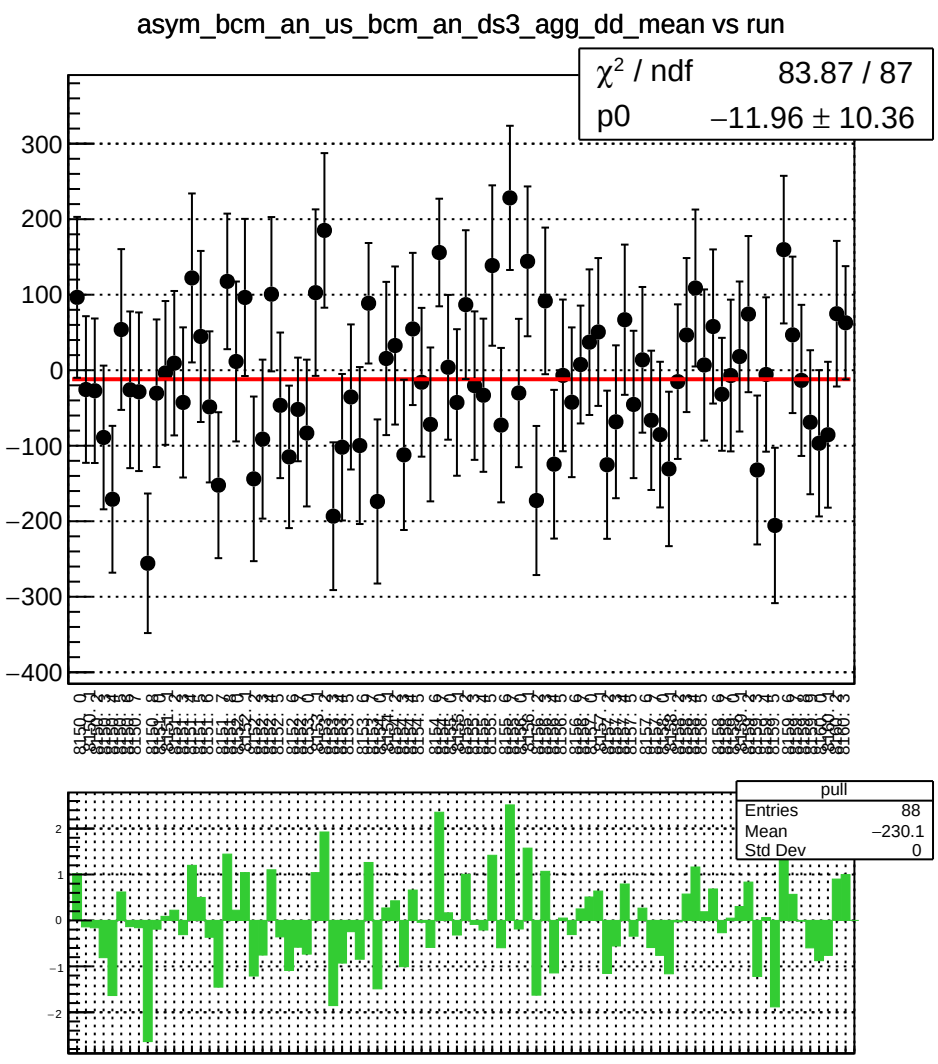

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 68.87 / 87
p0 −3.372 ± 10.76
pull
Entries 88
Mean −411.4
Std Dev 0
pull1D
Entries 88
Mean −0.004118
Std Dev 0.8846

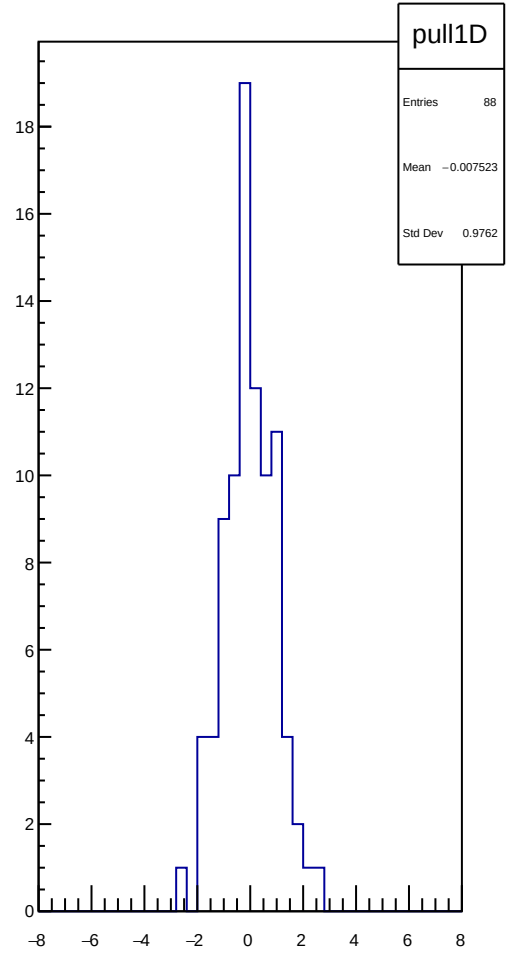

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1929 / 87
p0 9.844 ± 0.007608
11.2
11
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2

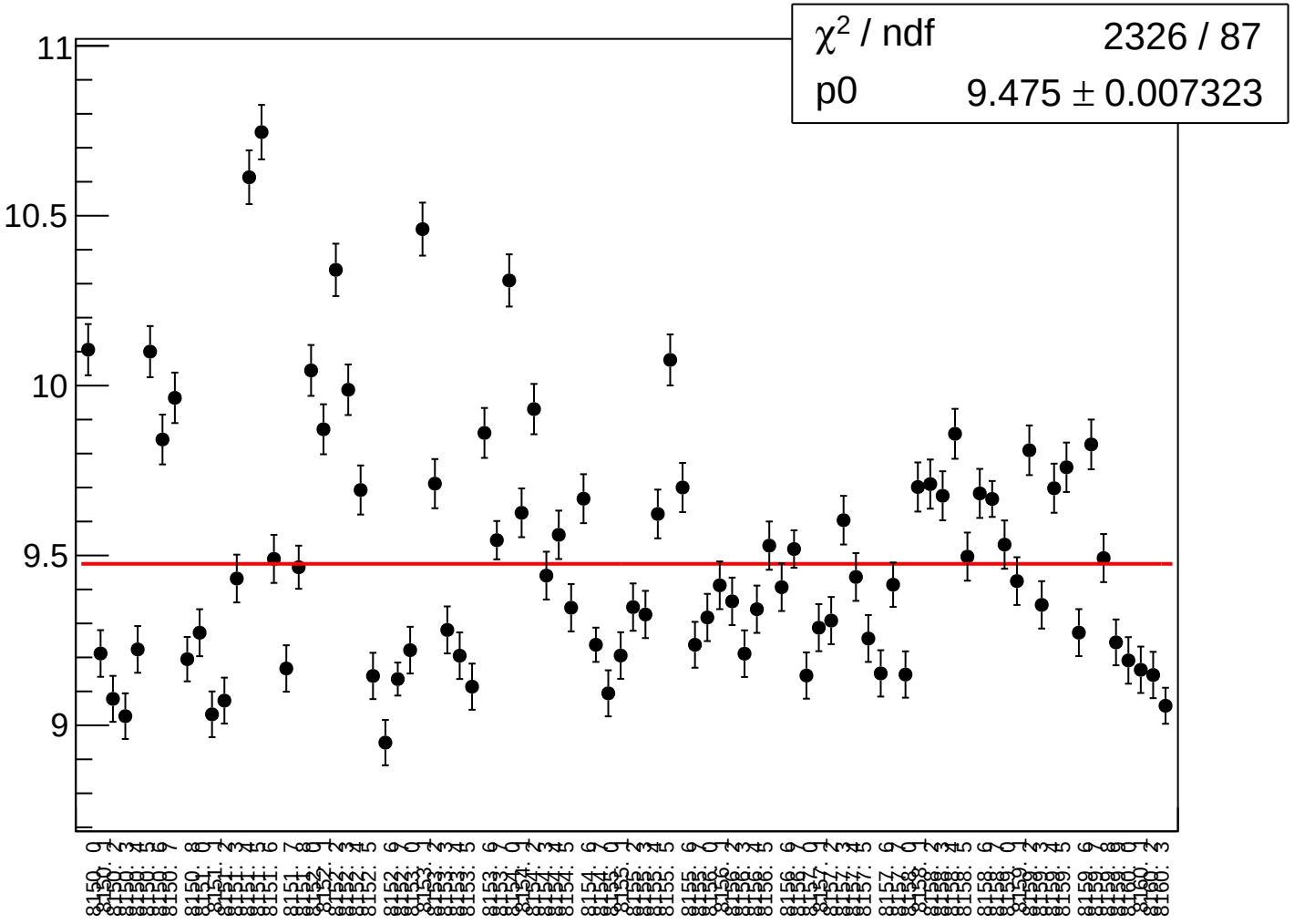

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 14.55 / 87
p0 261.2 ± 154.6
pull
Entries 88
Mean −122.6
Std Dev 0

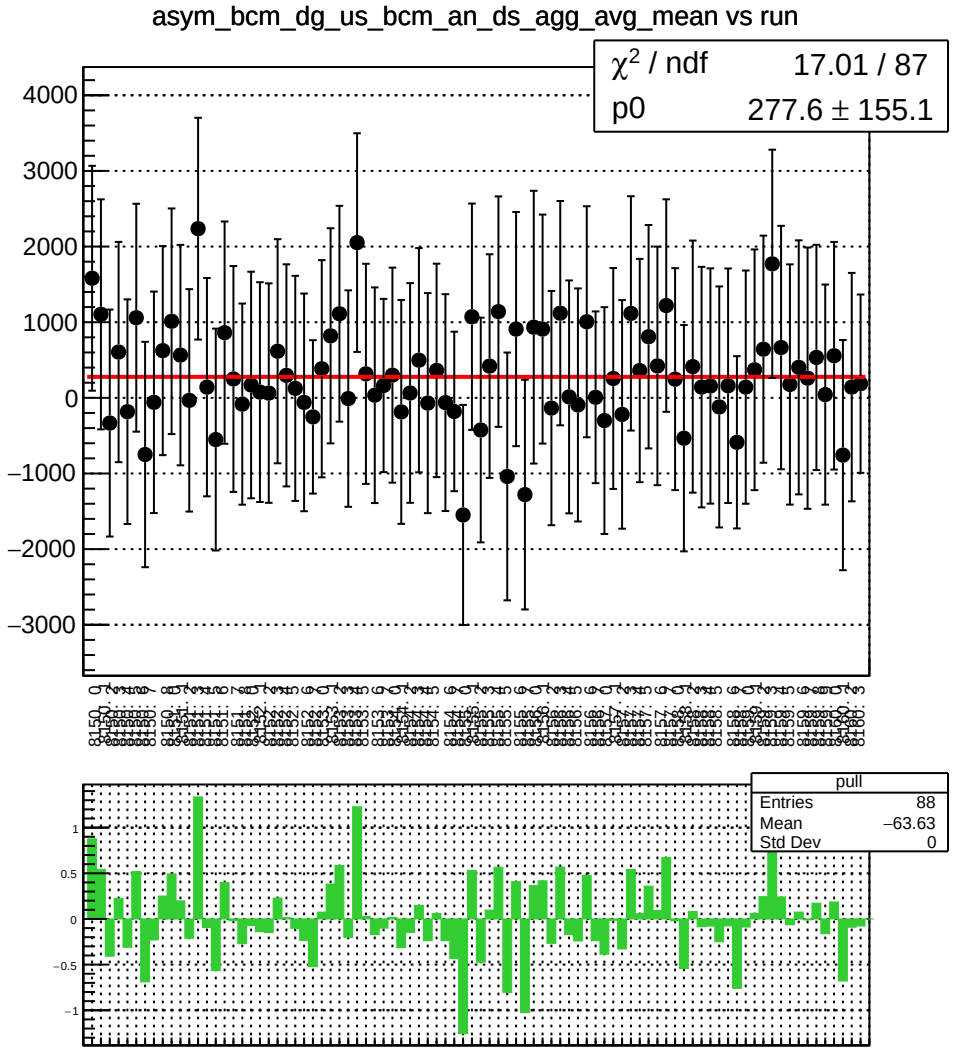

pull1D
Entries 88
Mean 0.007794
Std Dev 0.4065

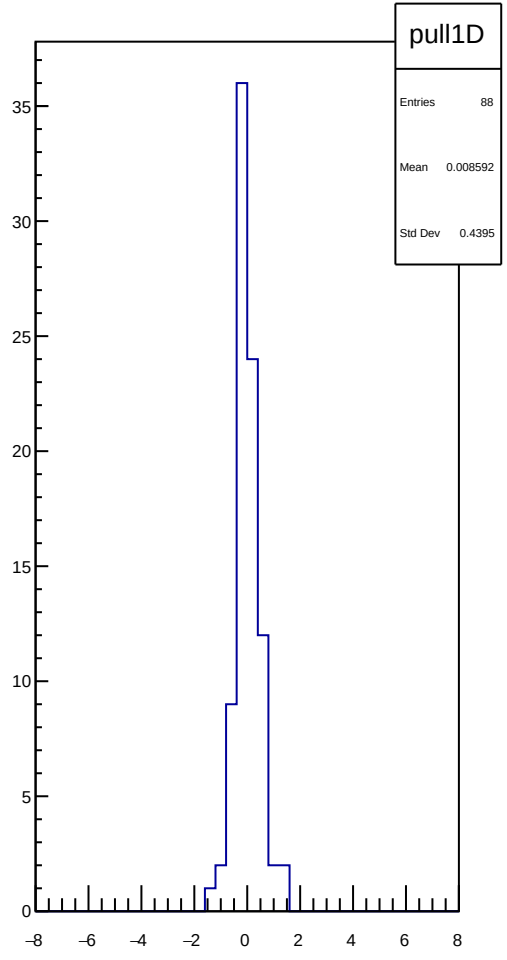

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3112 / 87
p0 141.4 ± 0.1093
175
170
165
160
155
150
145
140
135
130

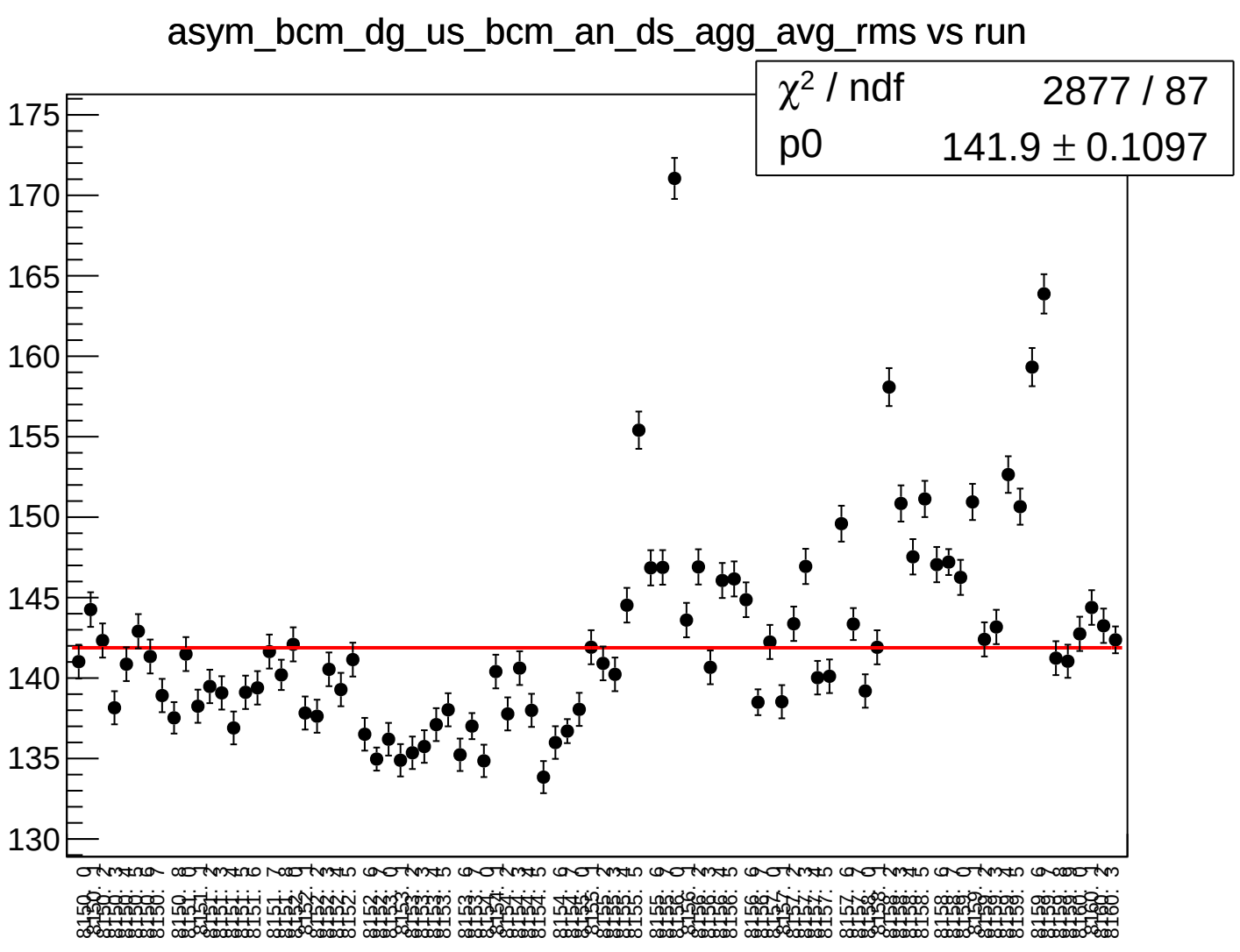

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 83.87 / 87
p0 −11.96 ± 10.36
300
200
100
0
−100
−200
−300
−400
pull
Entries 88
Mean −230.1
Std Dev 0
2
1
0
−1
−2

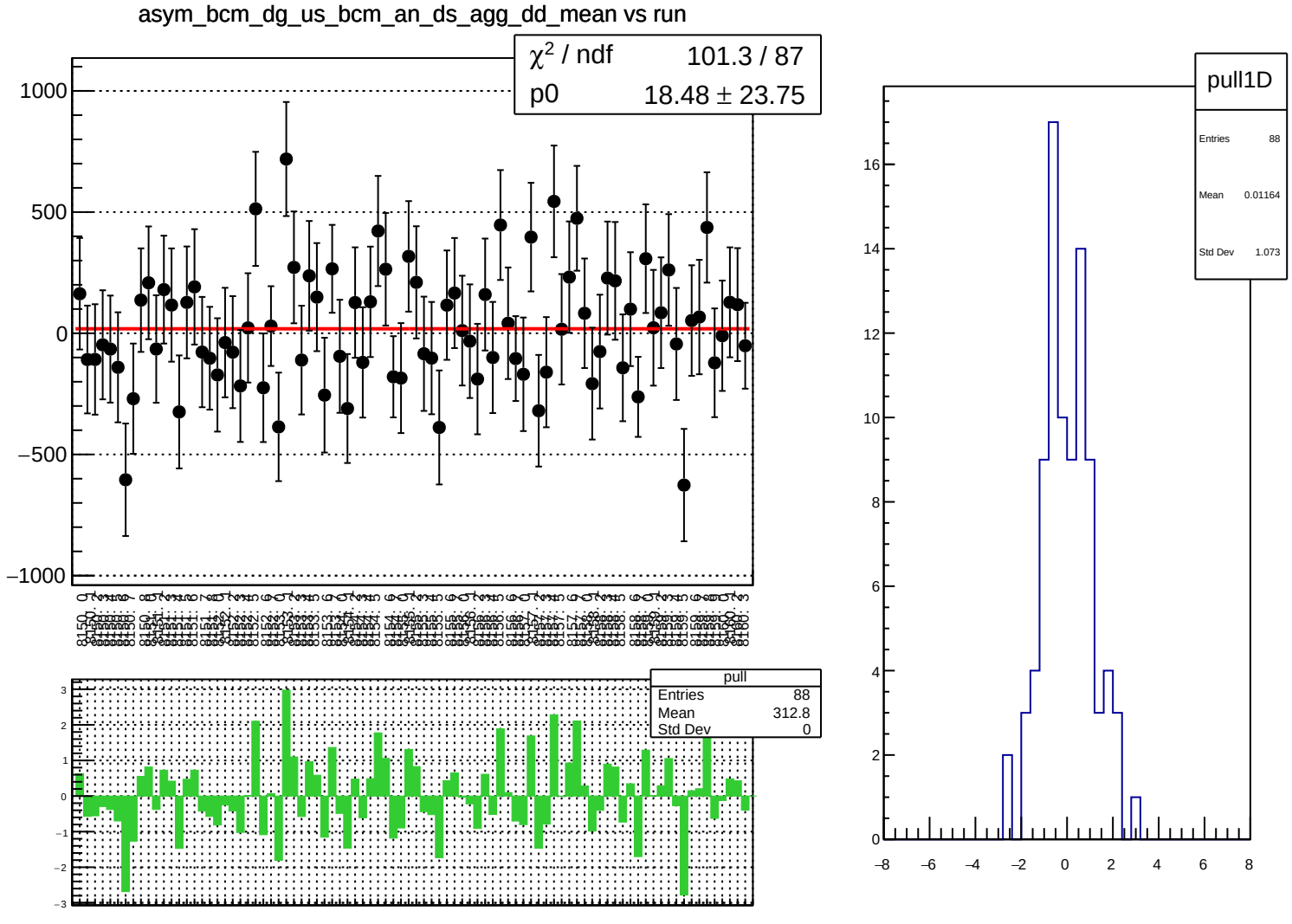

pull1D
Entries 88
Mean −0.007523
Std Dev 0.9762
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

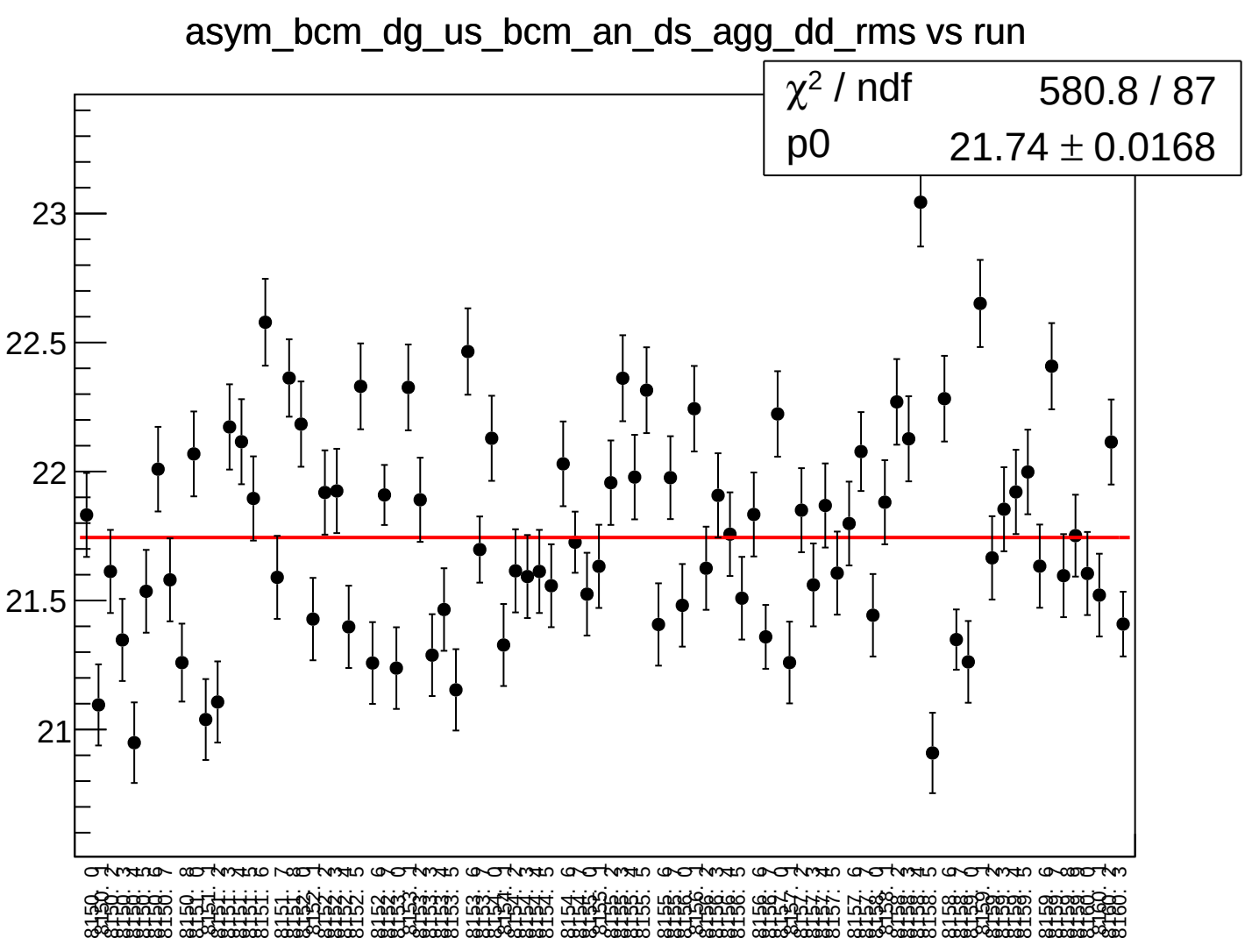

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2326 / 87
p0 9.475 ± 0.007323
11
10.5
10
9.5
9

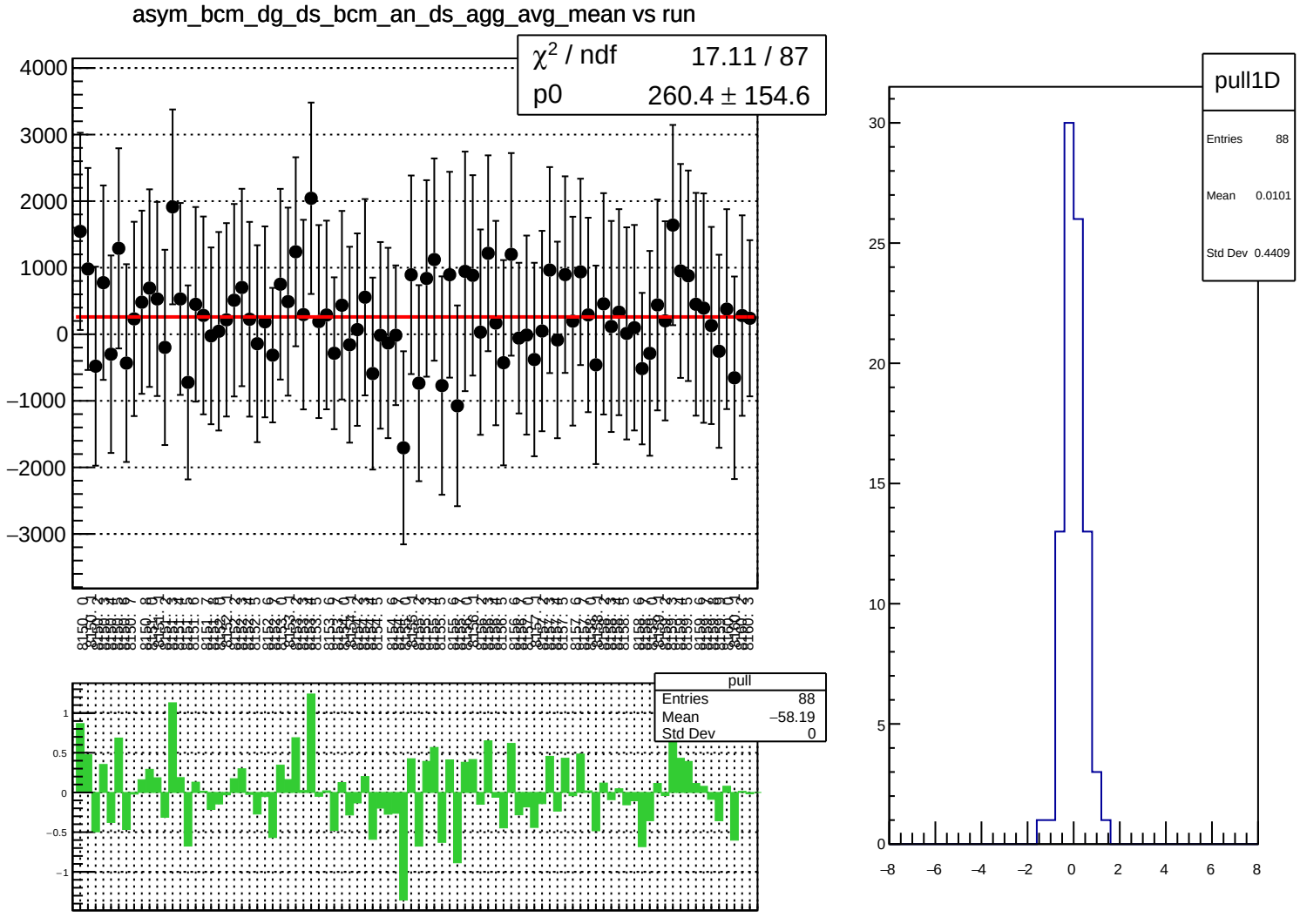

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.01 / 87
p0 277.6 ± 155.1
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −63.63
Std Dev 0
1
0.5
0
−0.5
−1

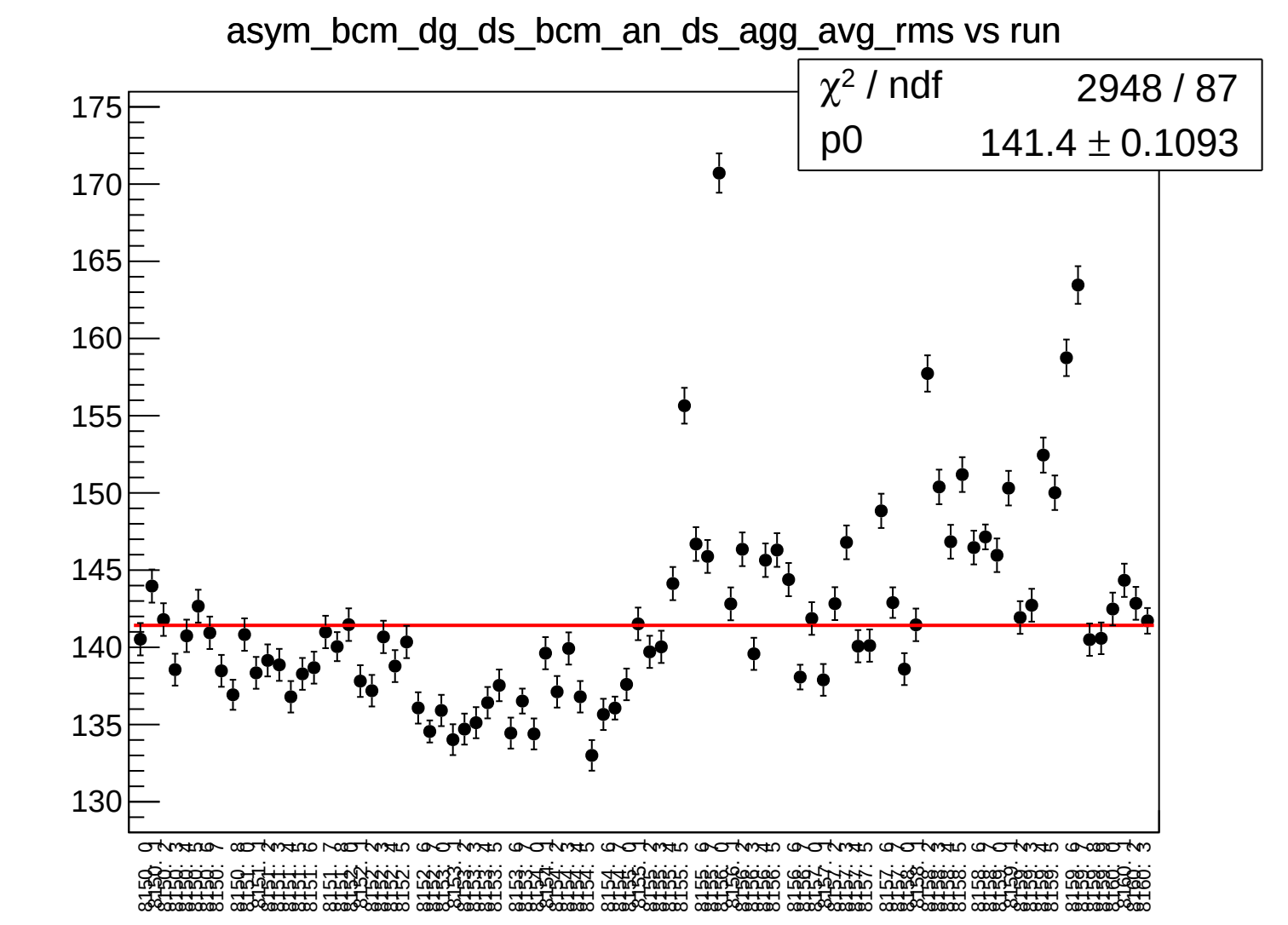

pull1D
Entries 88
Mean 0.008592
Std Dev 0.4395
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

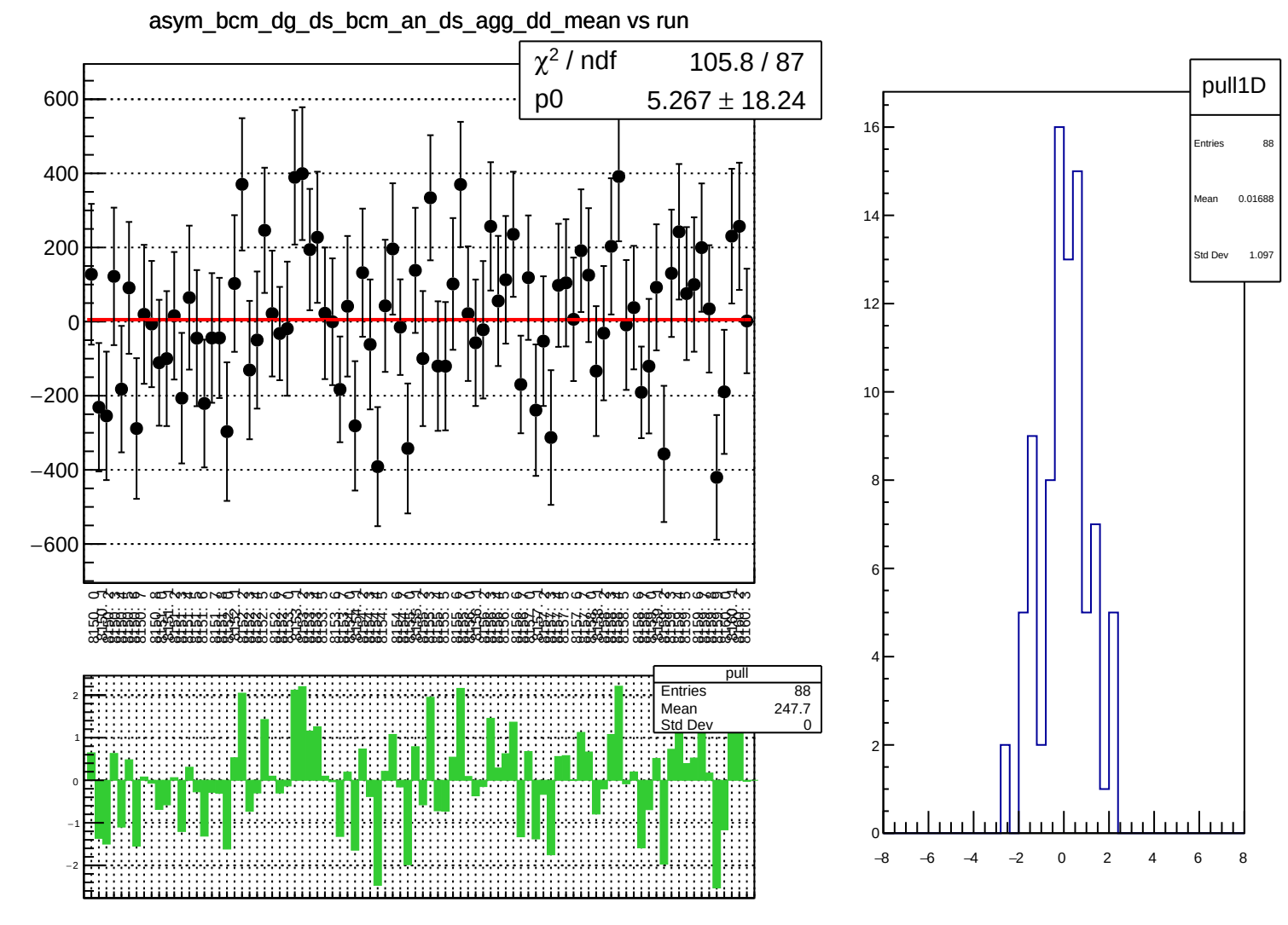

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ^2 / ndf 2877 / 87
p0 141.9 ± 0.1097
175
170
165
160
155
150
145
140
135
130

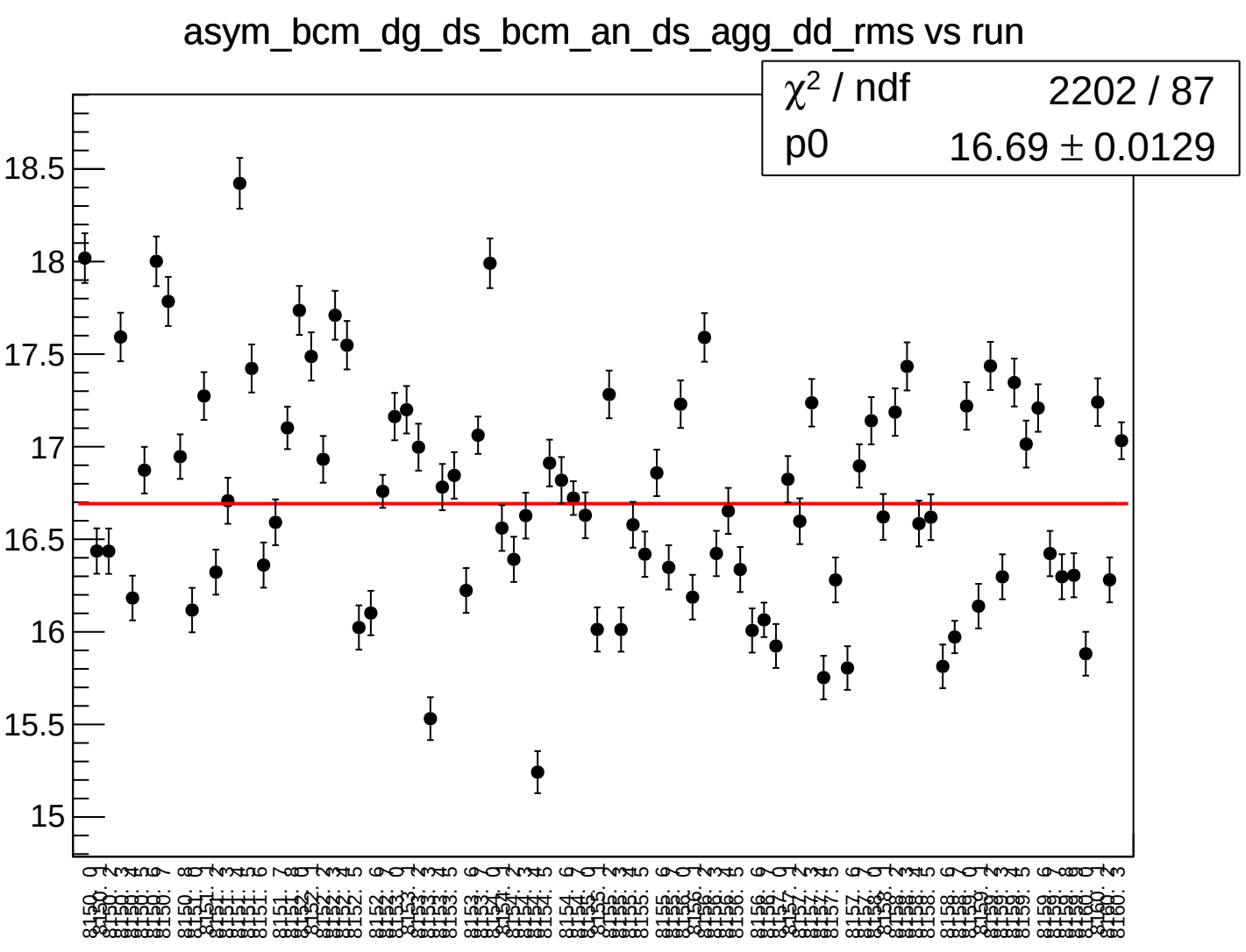

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 101.3 / 87
p0 18.48 ± 23.75
1000
500
0
−500
−1000
pull
Entries 88
Mean 312.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01164
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

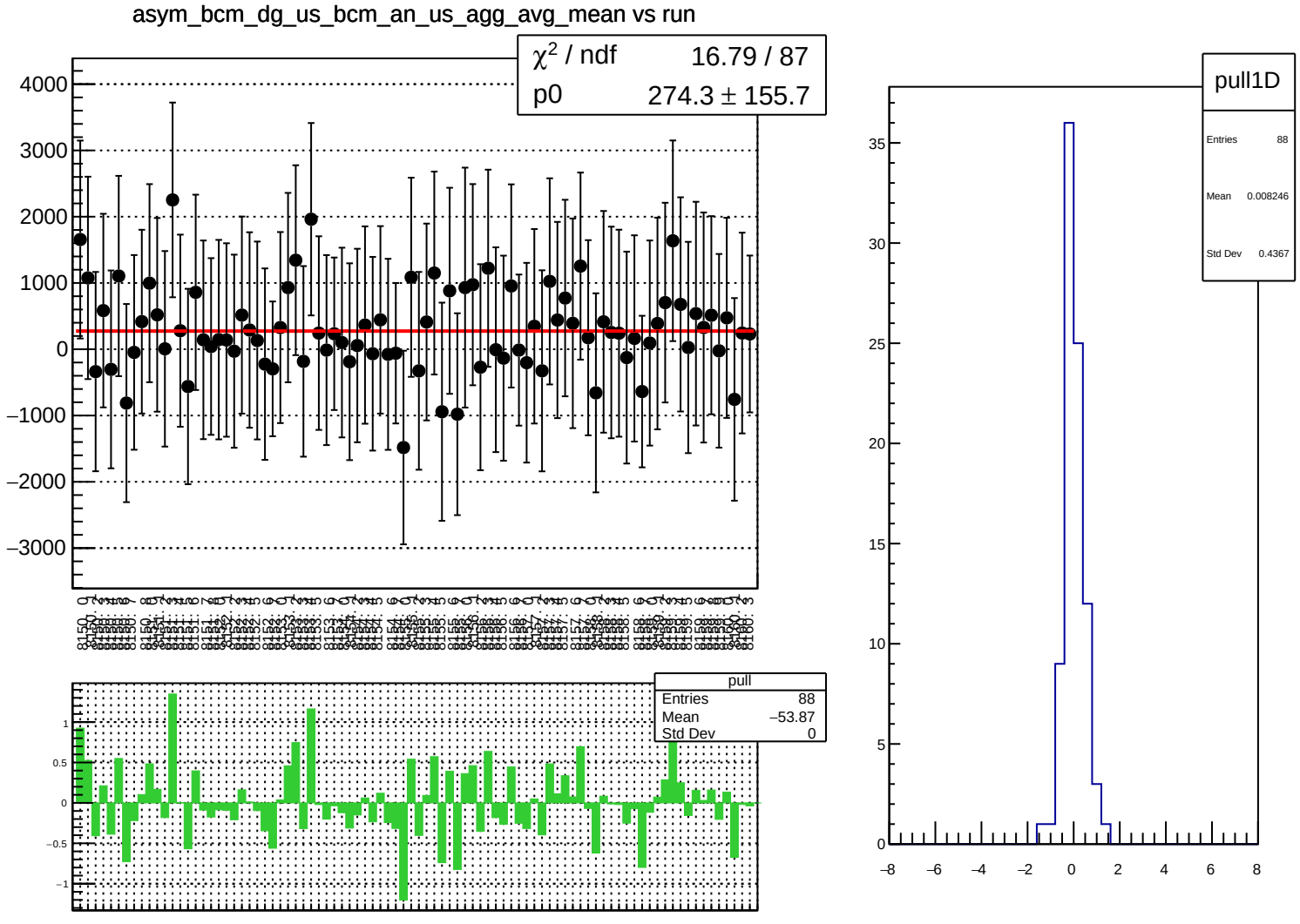

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 580.8 / 87
p0 21.74 ± 0.0168
23
22.5
22
21.5
21

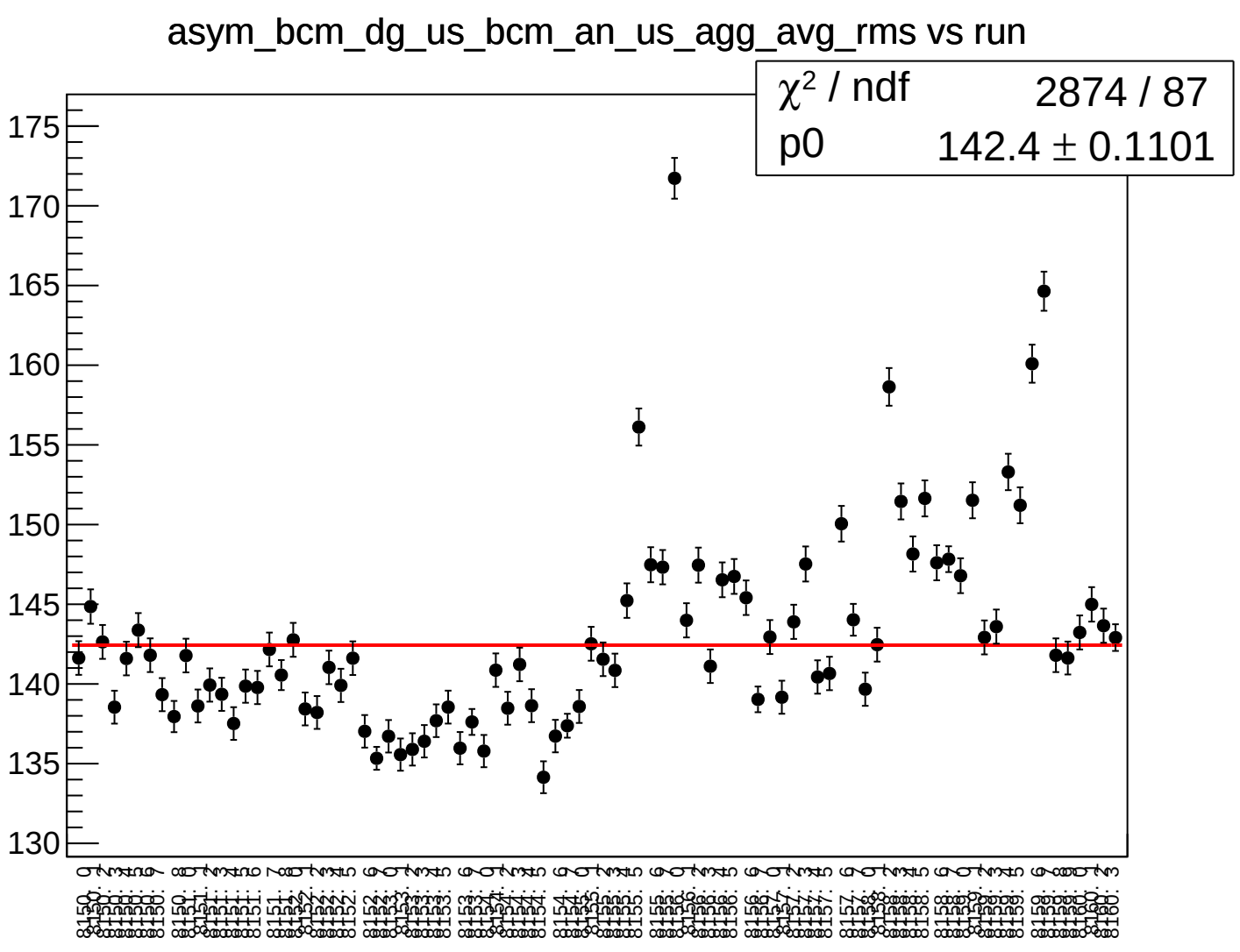

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.11 / 87
p0 260.4 ± 154.6
pull
Entries 88
Mean −58.19
Std Dev 0
pull1D
Entries 88
Mean 0.0101
Std Dev 0.4409

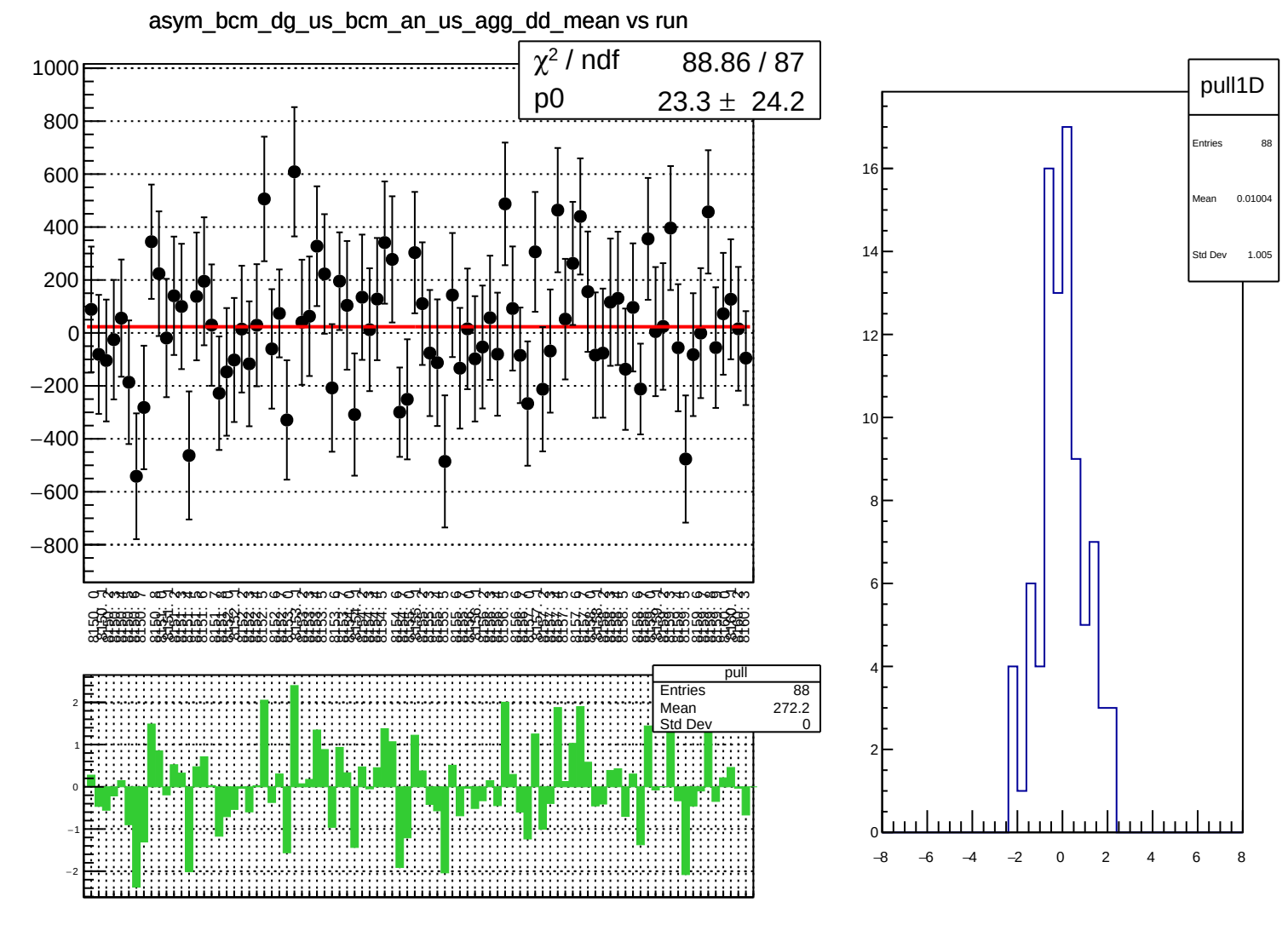

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2948 / 87
p0 141.4 ± 0.1093
175
170
165
160
155
150
145
140
135
130

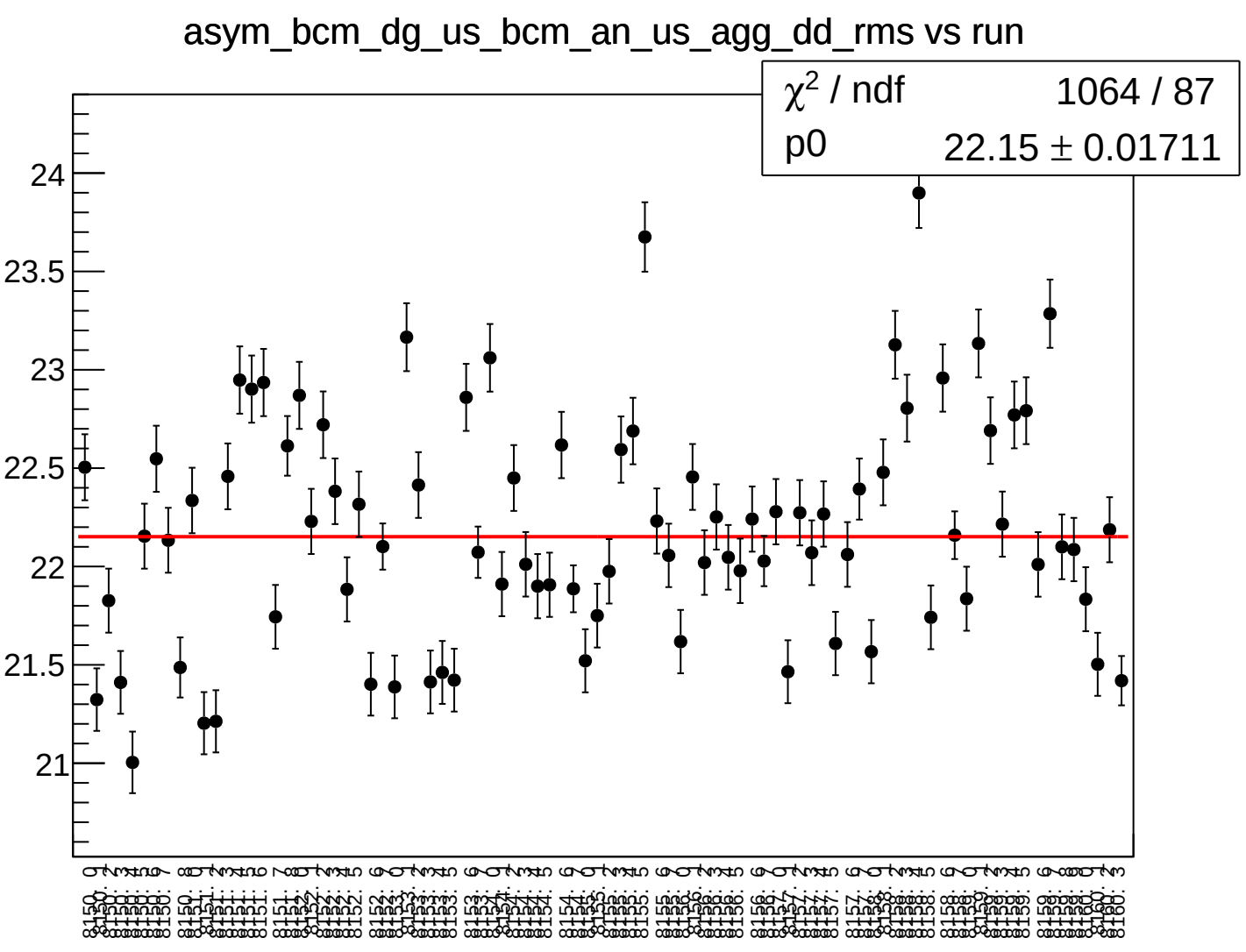

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 105.8 / 87
p0 5.267 ± 18.24
pull
Entries 88
Mean 247.7
Std Dev 0
pull1D
Entries 88
Mean 0.01688
Std Dev 1.097

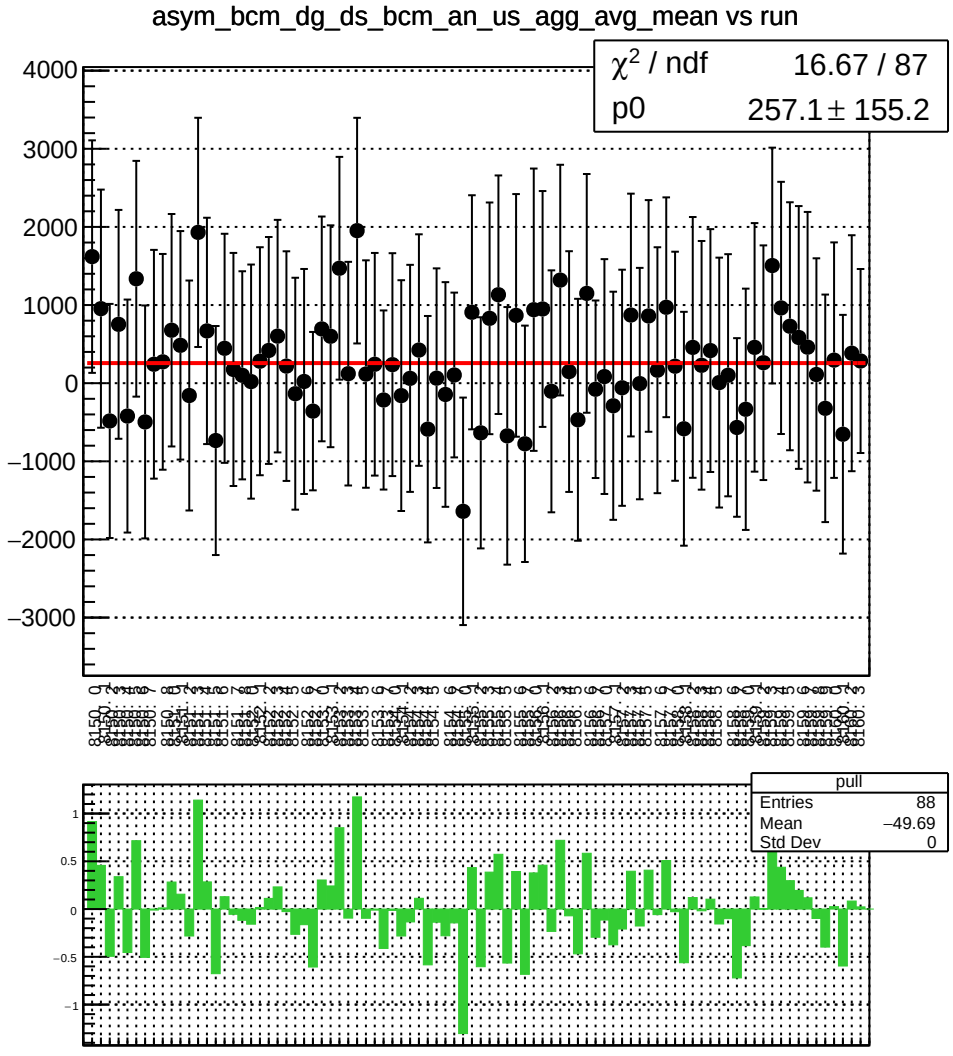

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2202 / 87
p0 16.69 ± 0.0129
18.5
18
17.5
17
16.5
16
15.5
15

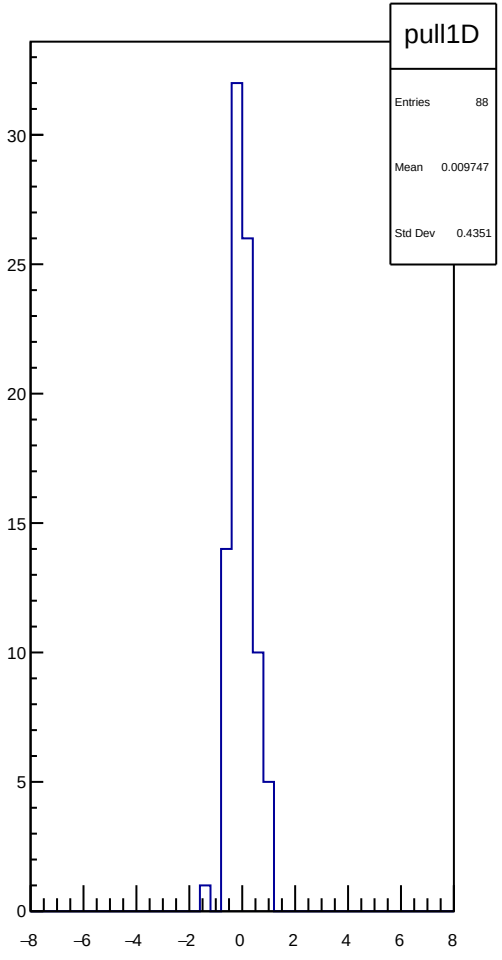

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 16.79 / 87
p0 274.3 ± 155.7
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −53.87
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.008246
Std Dev 0.4367
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

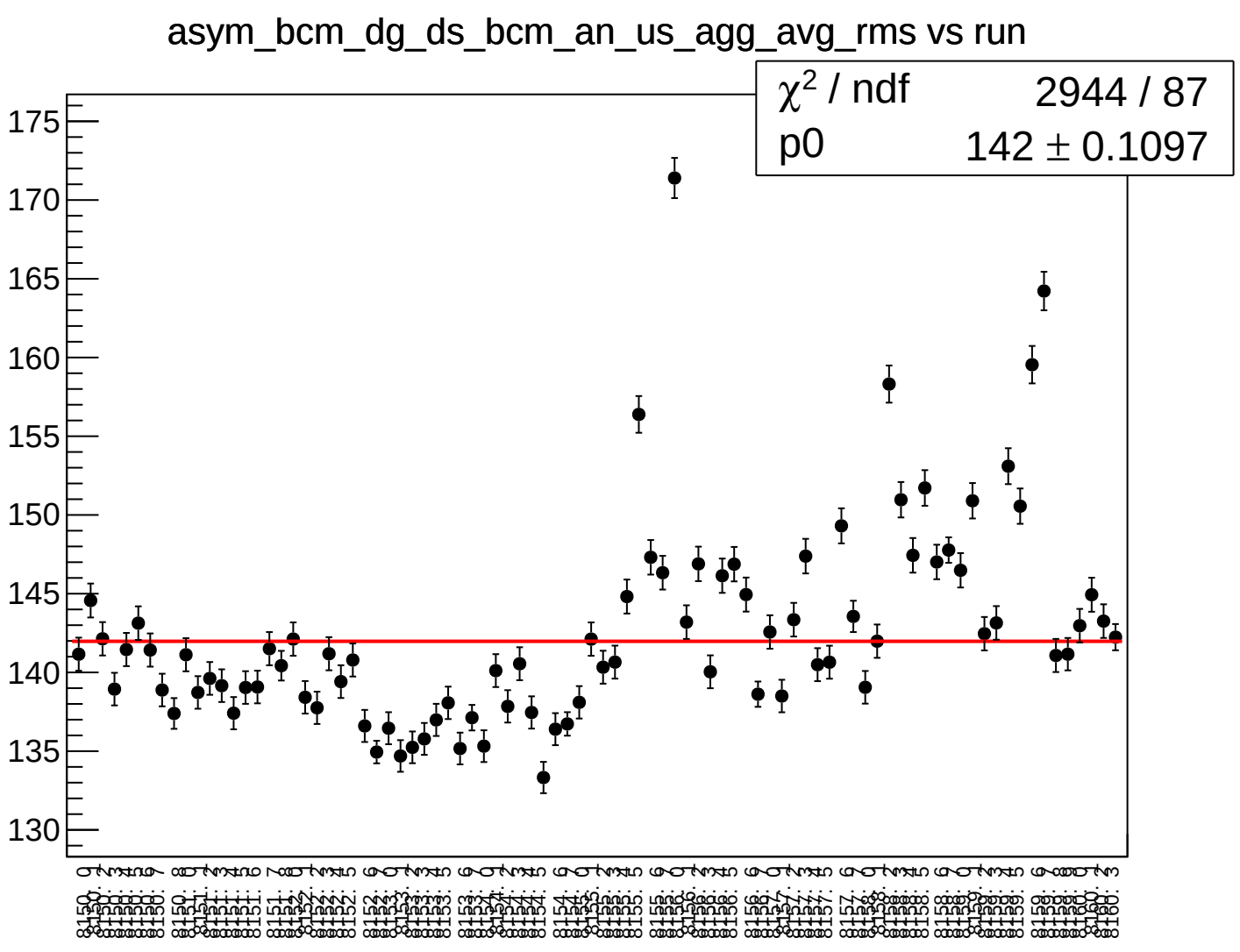

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2874 / 87
p0 142.4 ± 0.1101
175
170
165
160
155
150
145
140
135
130

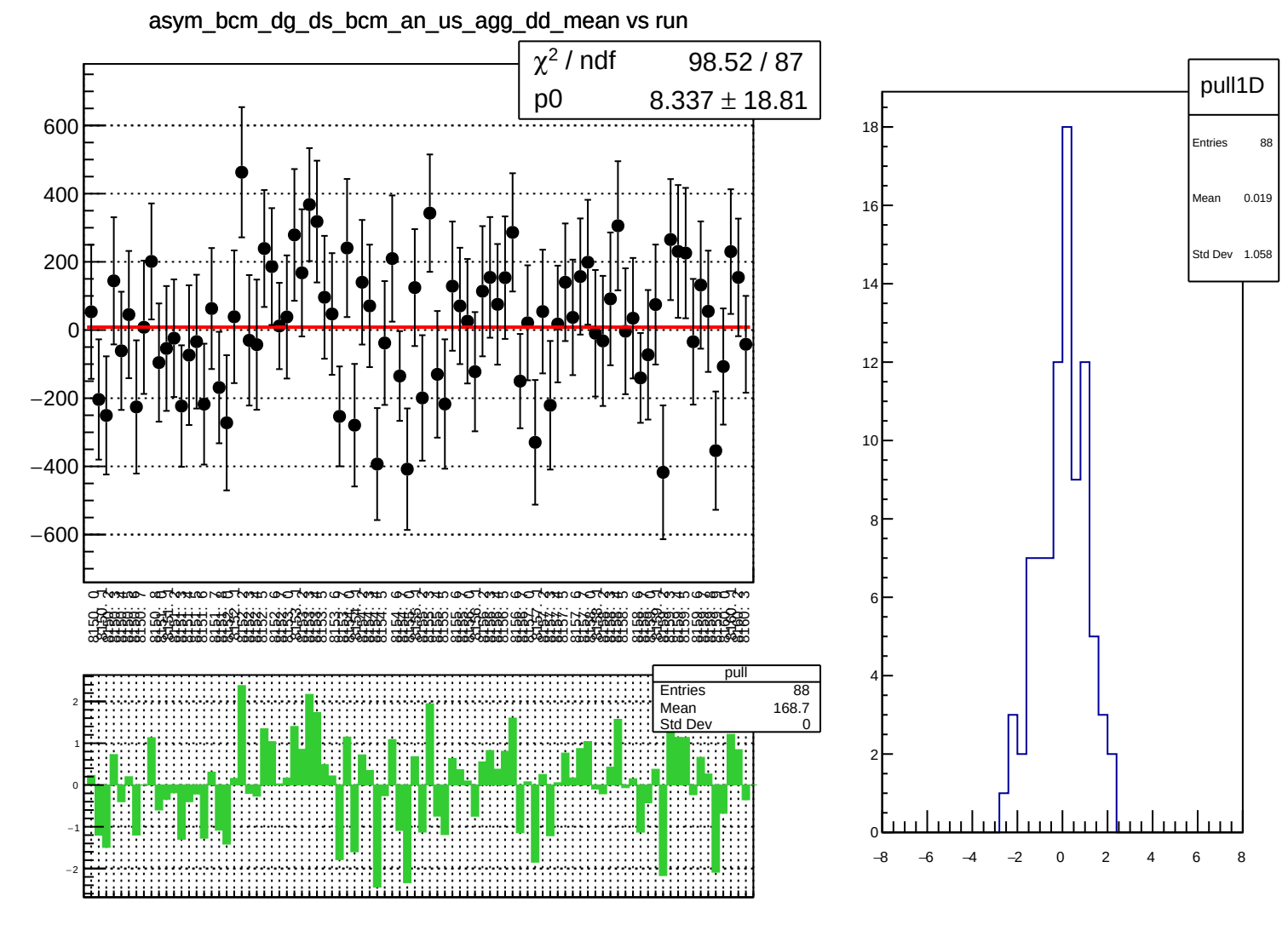

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 88.86 / 87
p0 23.3 ± 24.2
pull
Entries 88
Mean 272.2
Std Dev 0
pull1D
Entries 88
Mean 0.01004
Std Dev 1.005

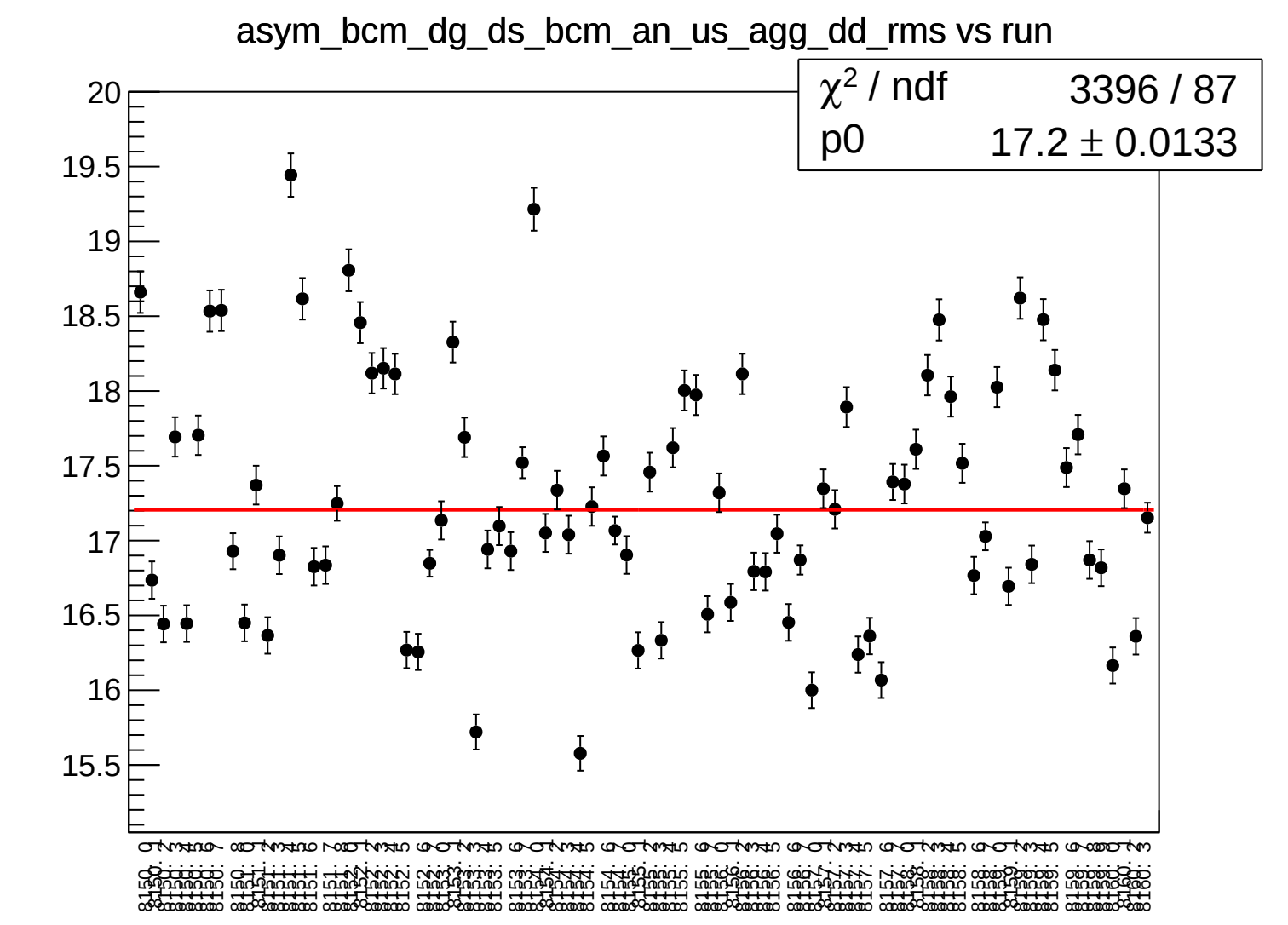

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1064 / 87
p0 22.15 ± 0.01711
24
23.5
23
22.5
22
21.5
21

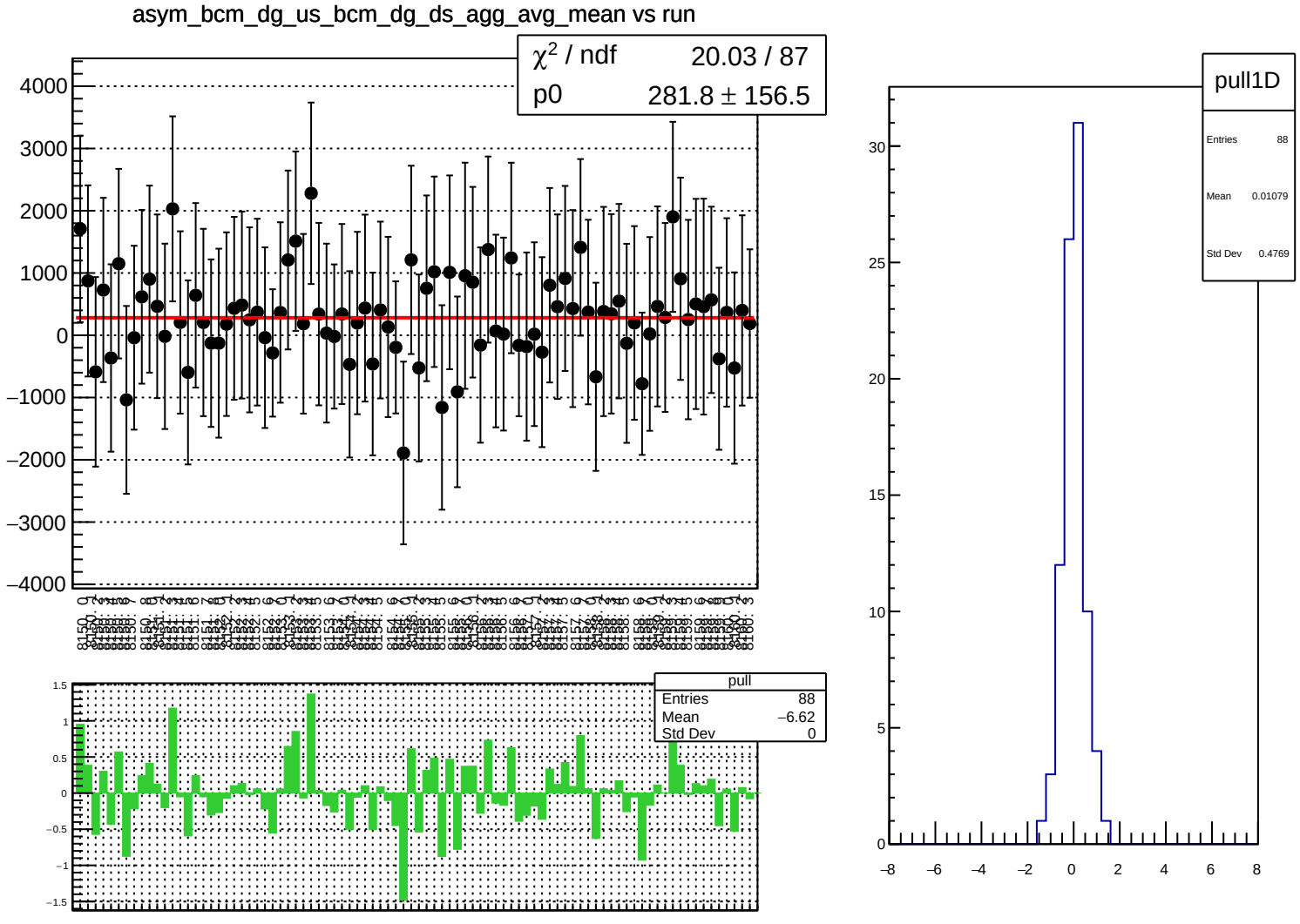

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 16.67 / 87
p0 257.1 ± 155.2
pull
Entries 88
Mean −49.69
Std Dev 0

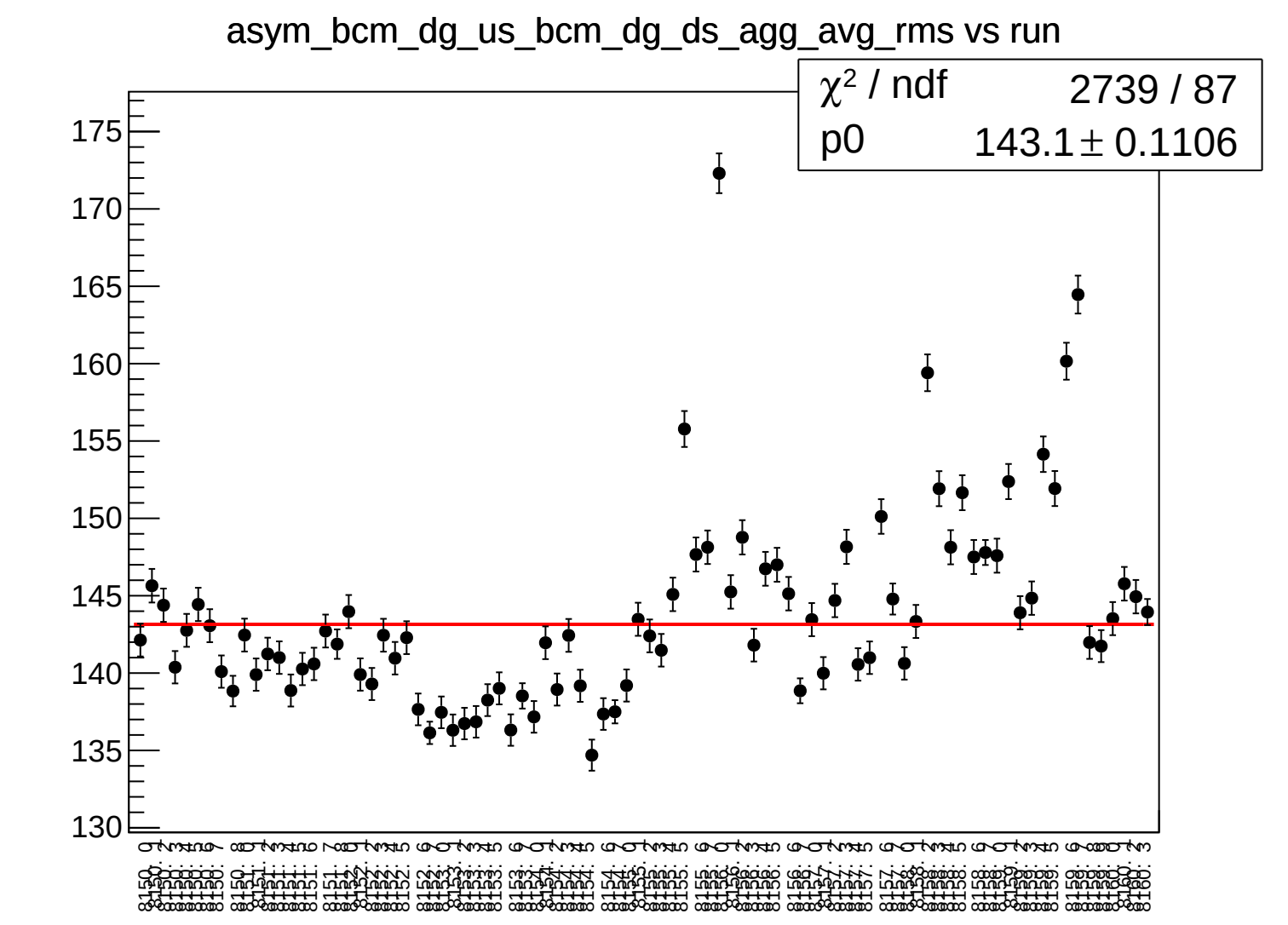

pull1D
Entries 88
Mean 0.009747
Std Dev 0.4351

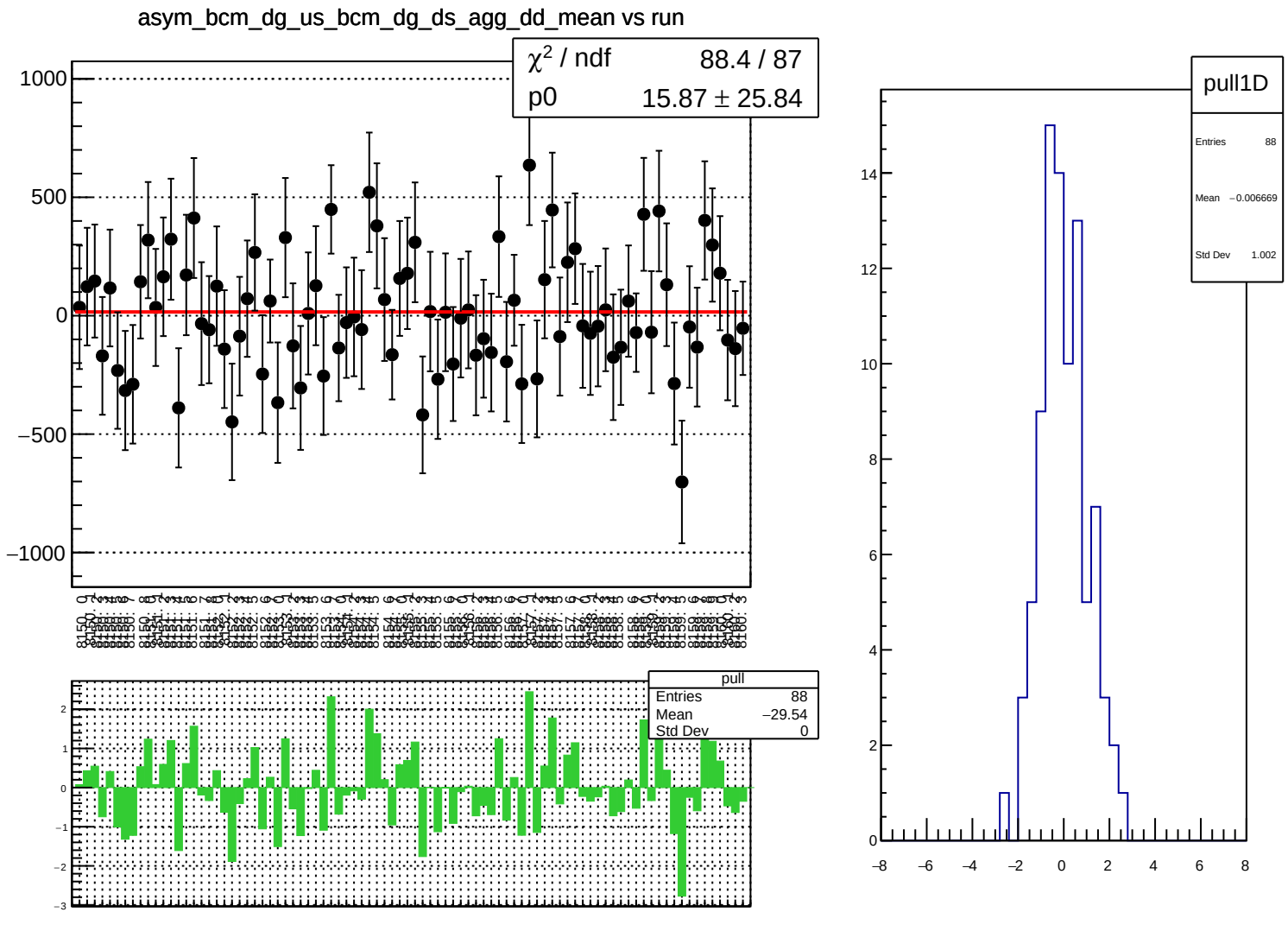

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2944 / 87
p0 142 ± 0.1097
175
170
165
160
155
150
145
140
135
130

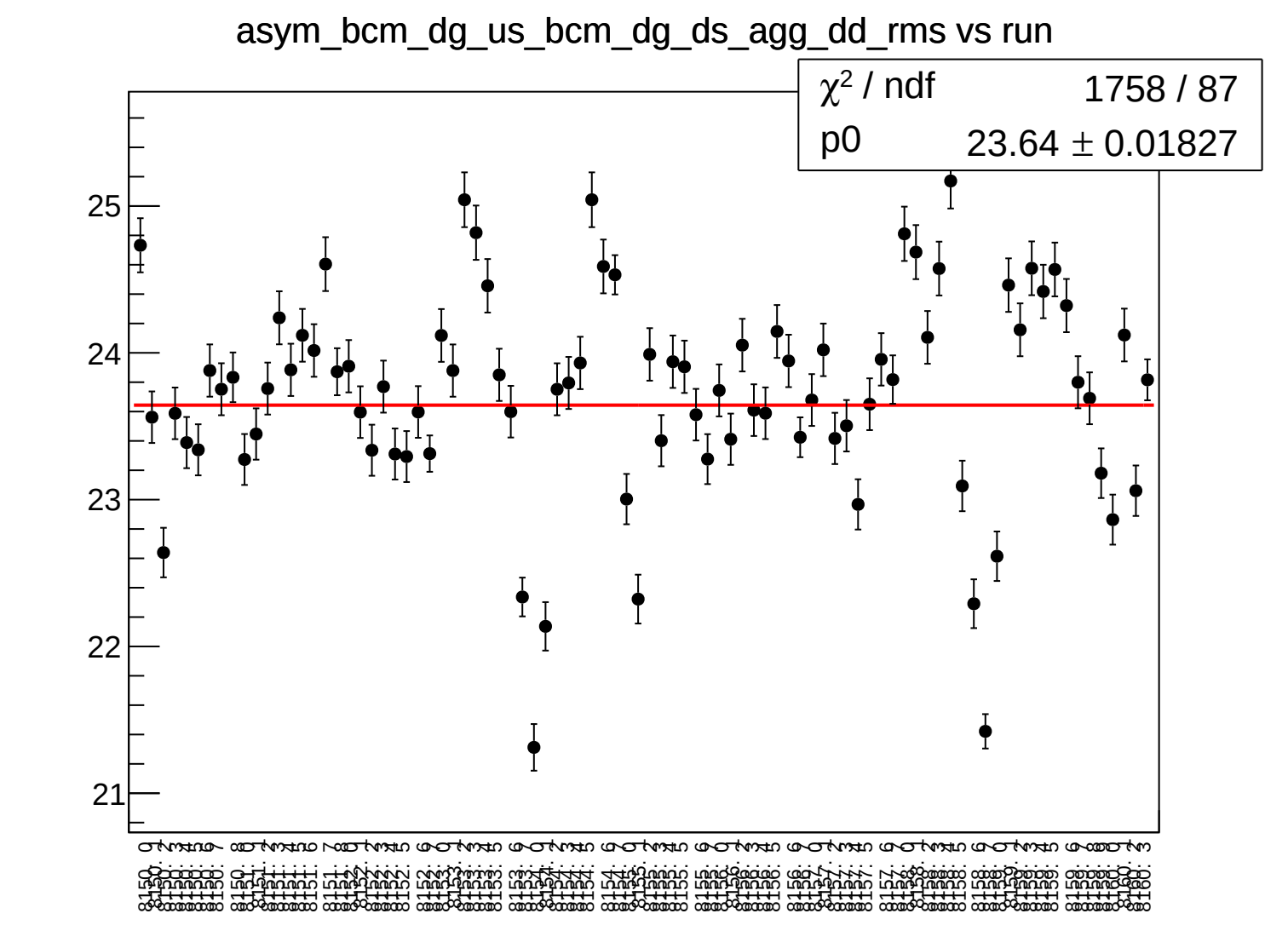

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 98.52 / 87
p0 8.337 ± 18.81
pull
Entries 88
Mean 168.7
Std Dev 0
pull1D
Entries 88
Mean 0.019
Std Dev 1.058

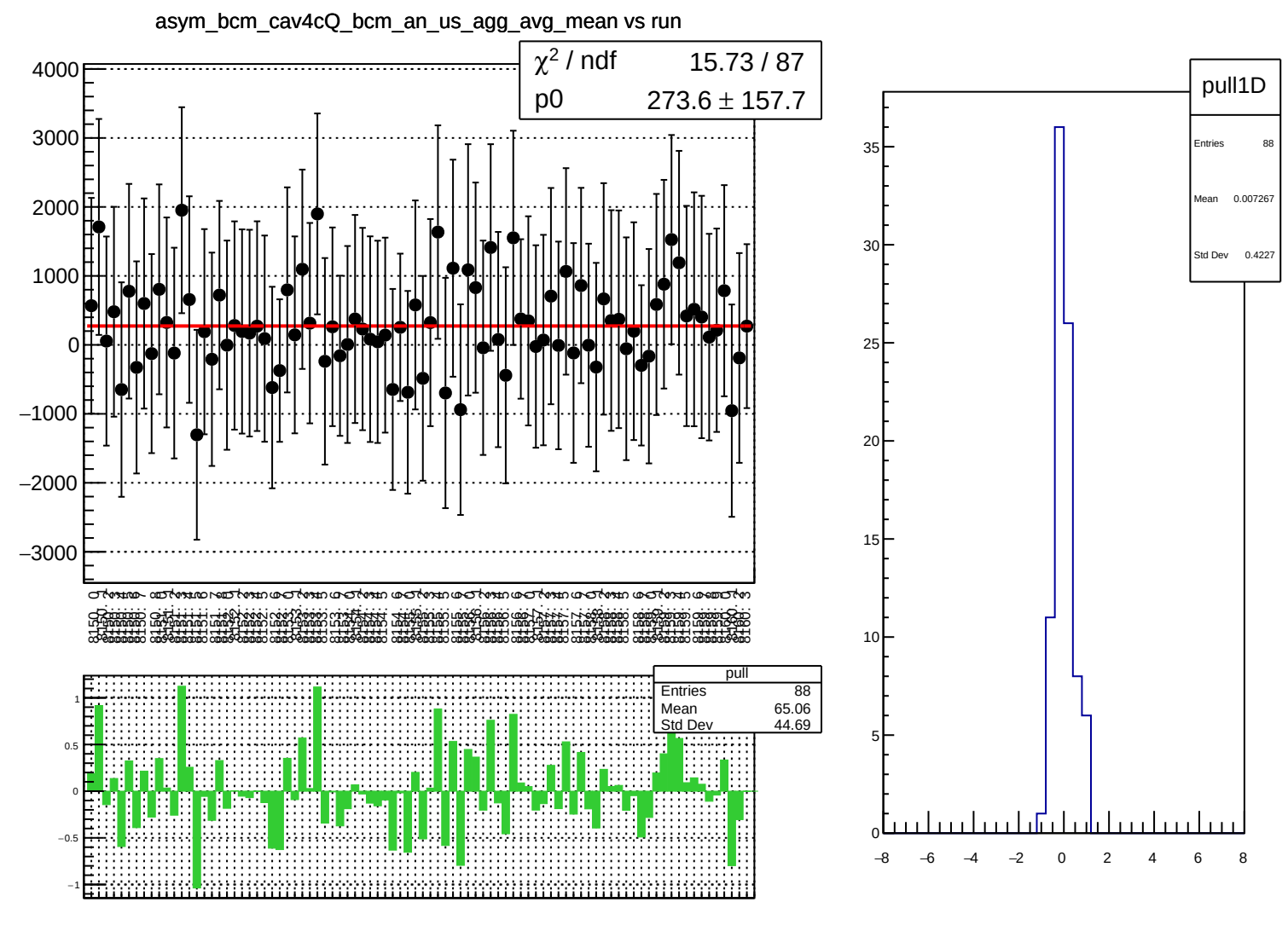

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3396 / 87
p0 17.2 ± 0.0133
20
19.5
19
18.5
18
17.5
17
16.5
16
15.5

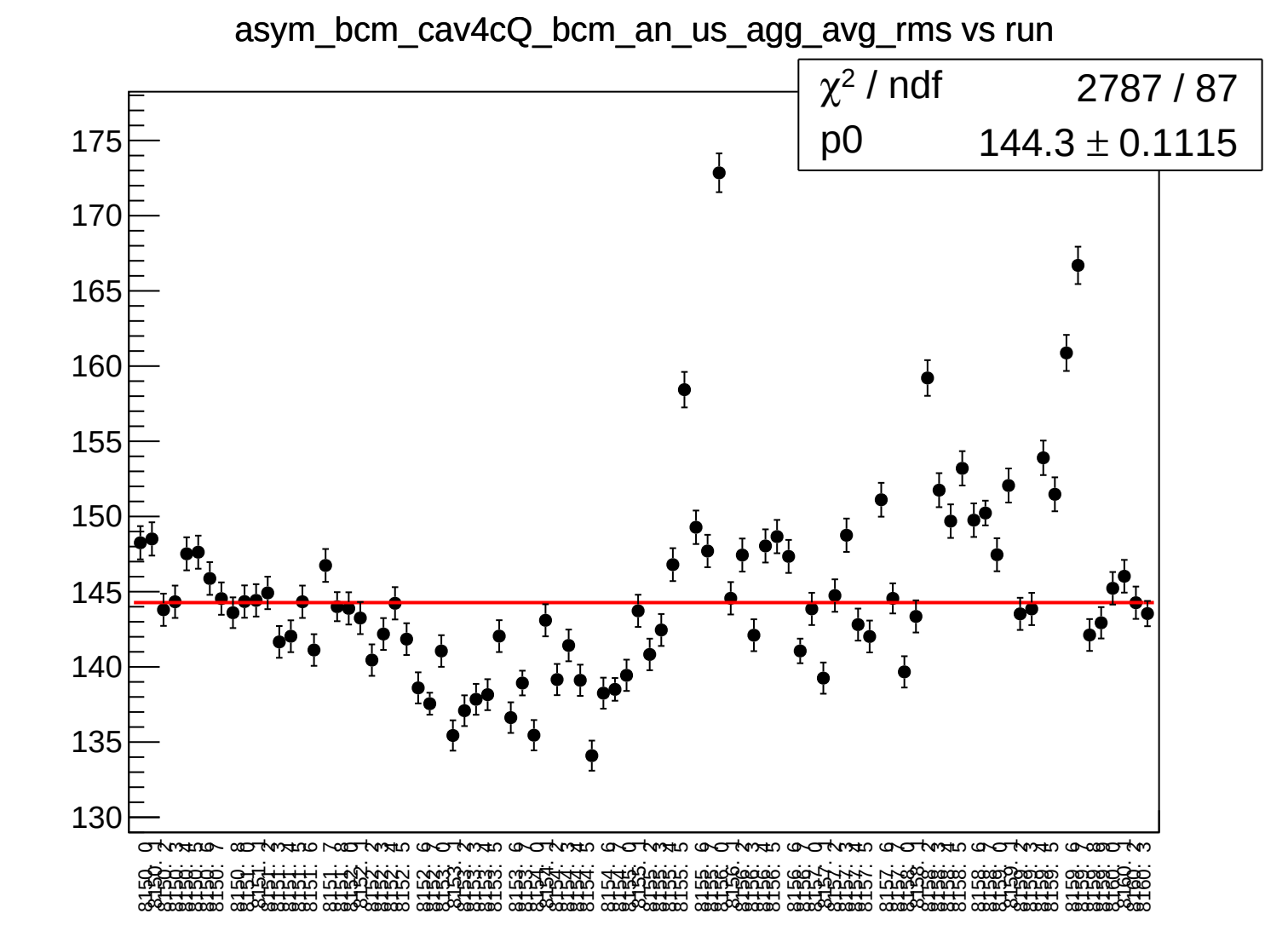

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 20.03 / 87
p0 281.8 ± 156.5
pull
Entries 88
Mean −6.62
Std Dev 0
pull1D
Entries 88
Mean 0.01079
Std Dev 0.4769

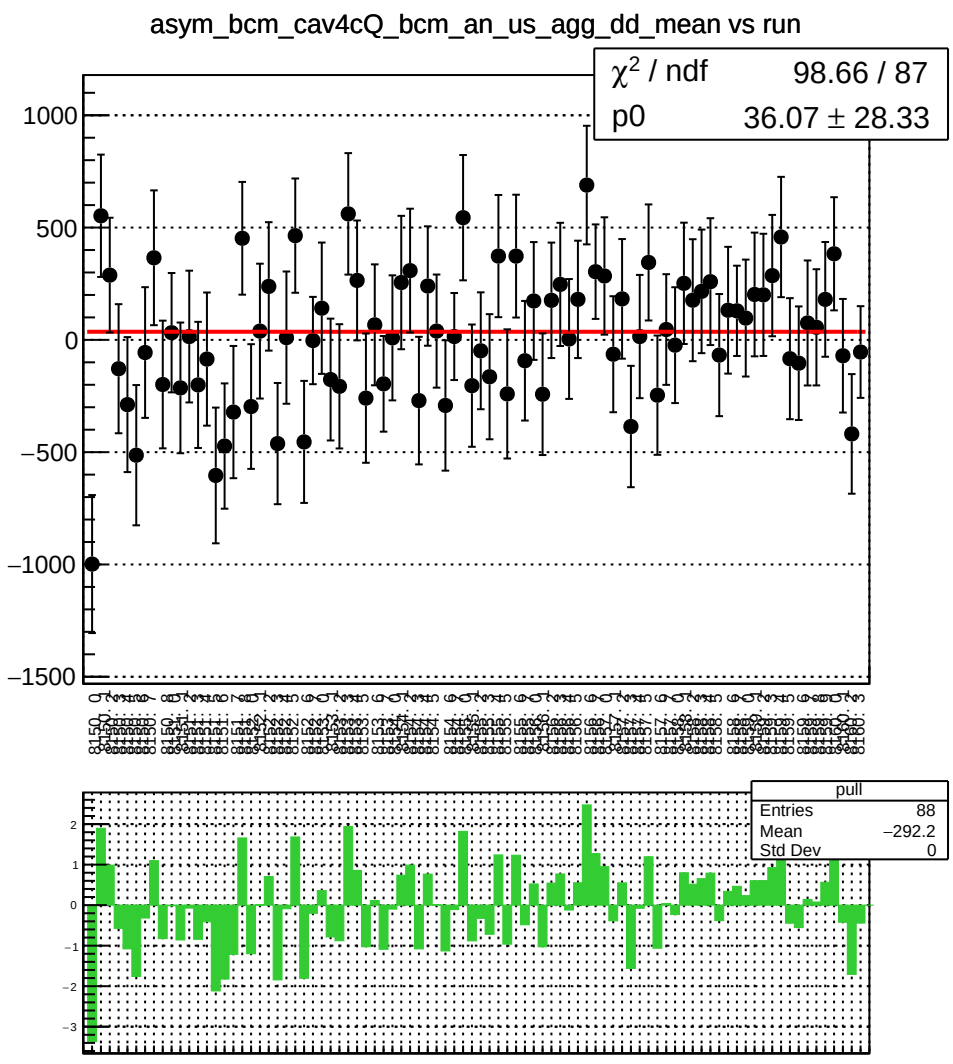

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2739 / 87
p0 143.1 ± 0.1106
175
170
165
160
155
150
145
140
135
130

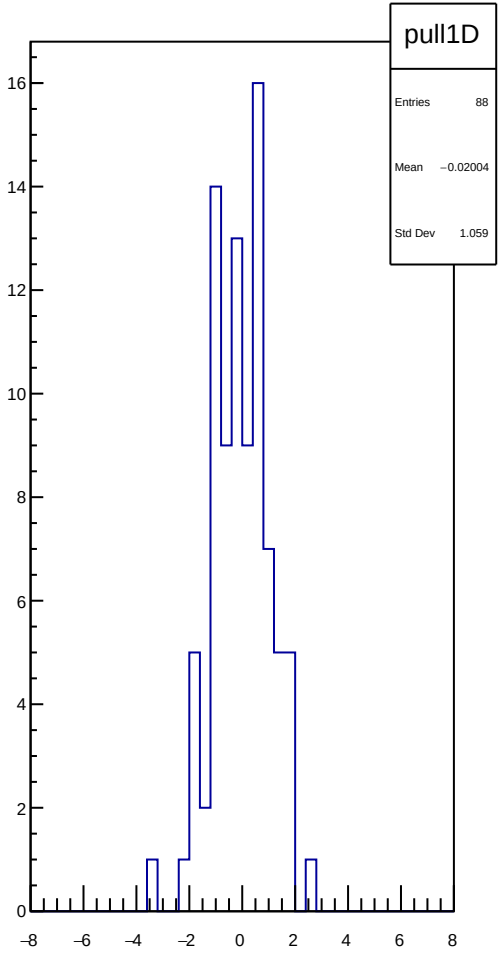

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 88.4 / 87
p0 15.87 ± 25.84
1000
500
0
−500
−1000
pull
Entries 88
Mean −29.54
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.006669
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

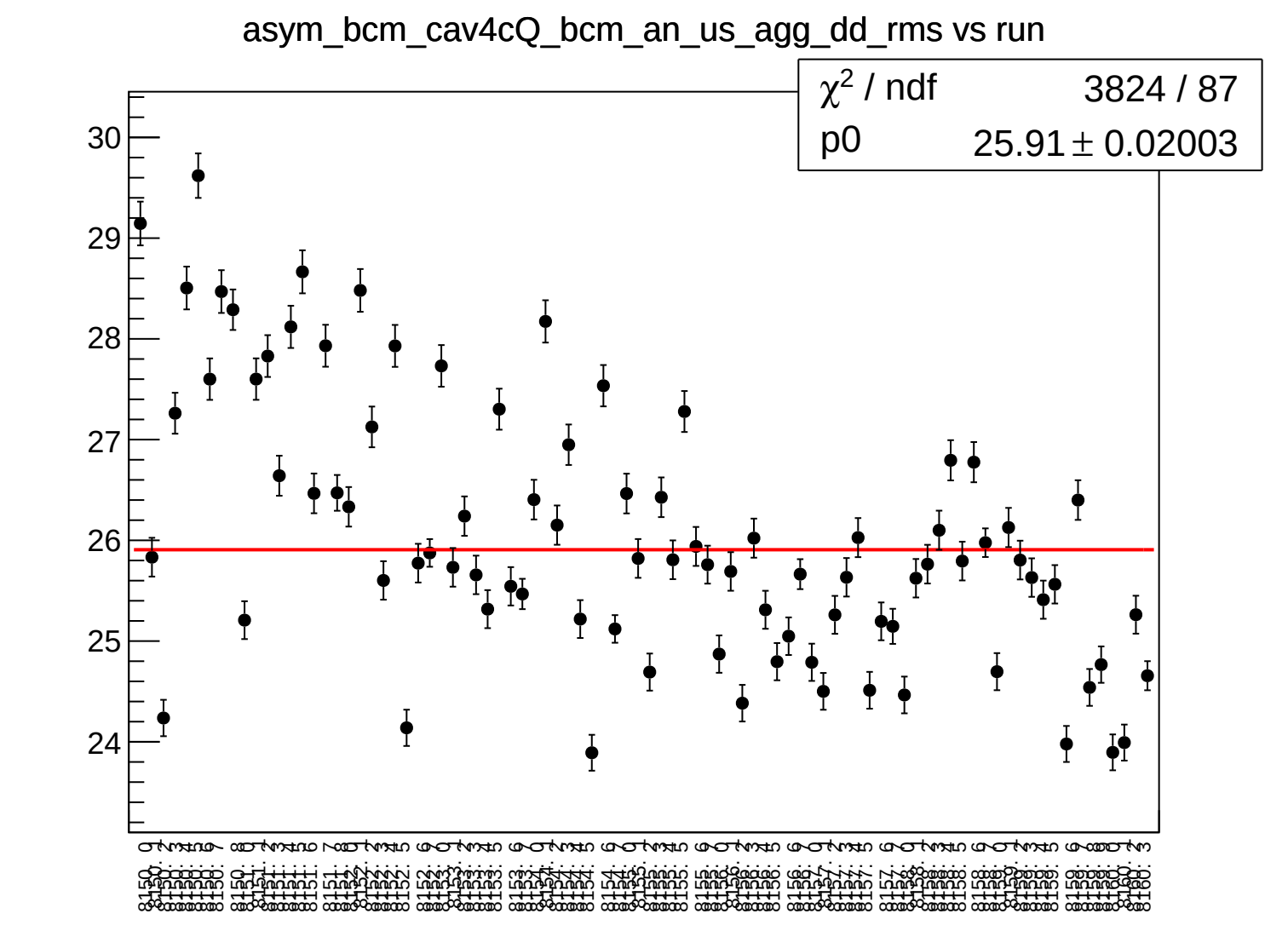

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1758 / 87
p0 23.64 ± 0.01827
25
24
23
22
21

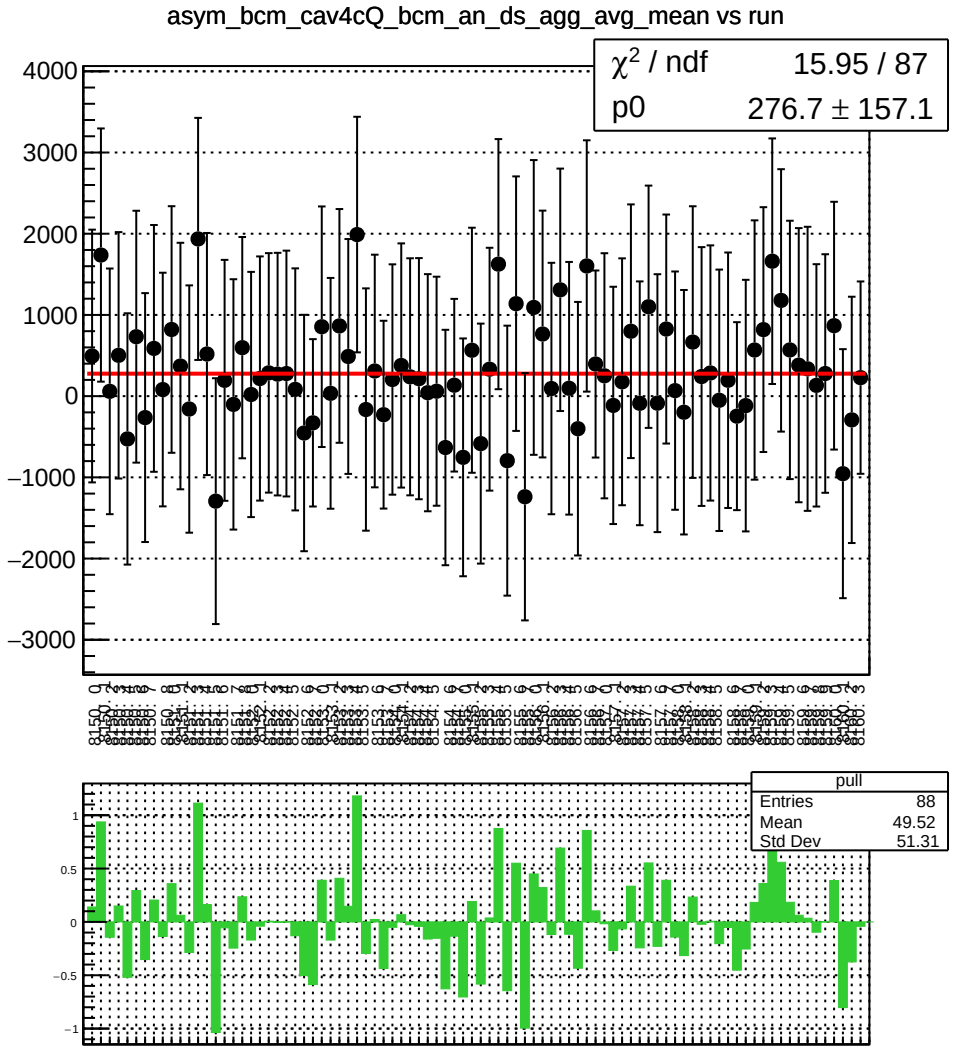

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.73 / 87
p0 273.6 ± 157.7
pull
Entries 88
Mean 65.06
Std Dev 44.69
pull1D
Entries 88
Mean 0.007267
Std Dev 0.4227

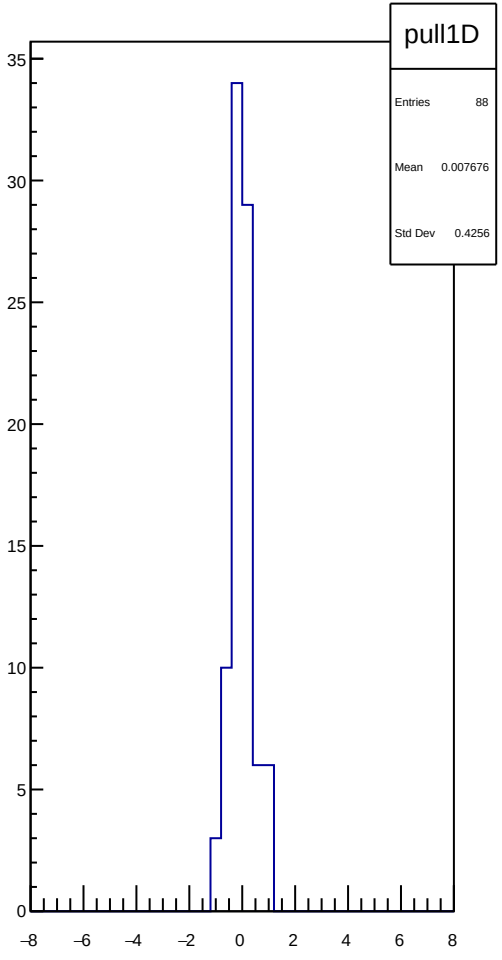

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2787 / 87
p0 144.3 ± 0.1115
175
170
165
160
155
150
145
140
135
130

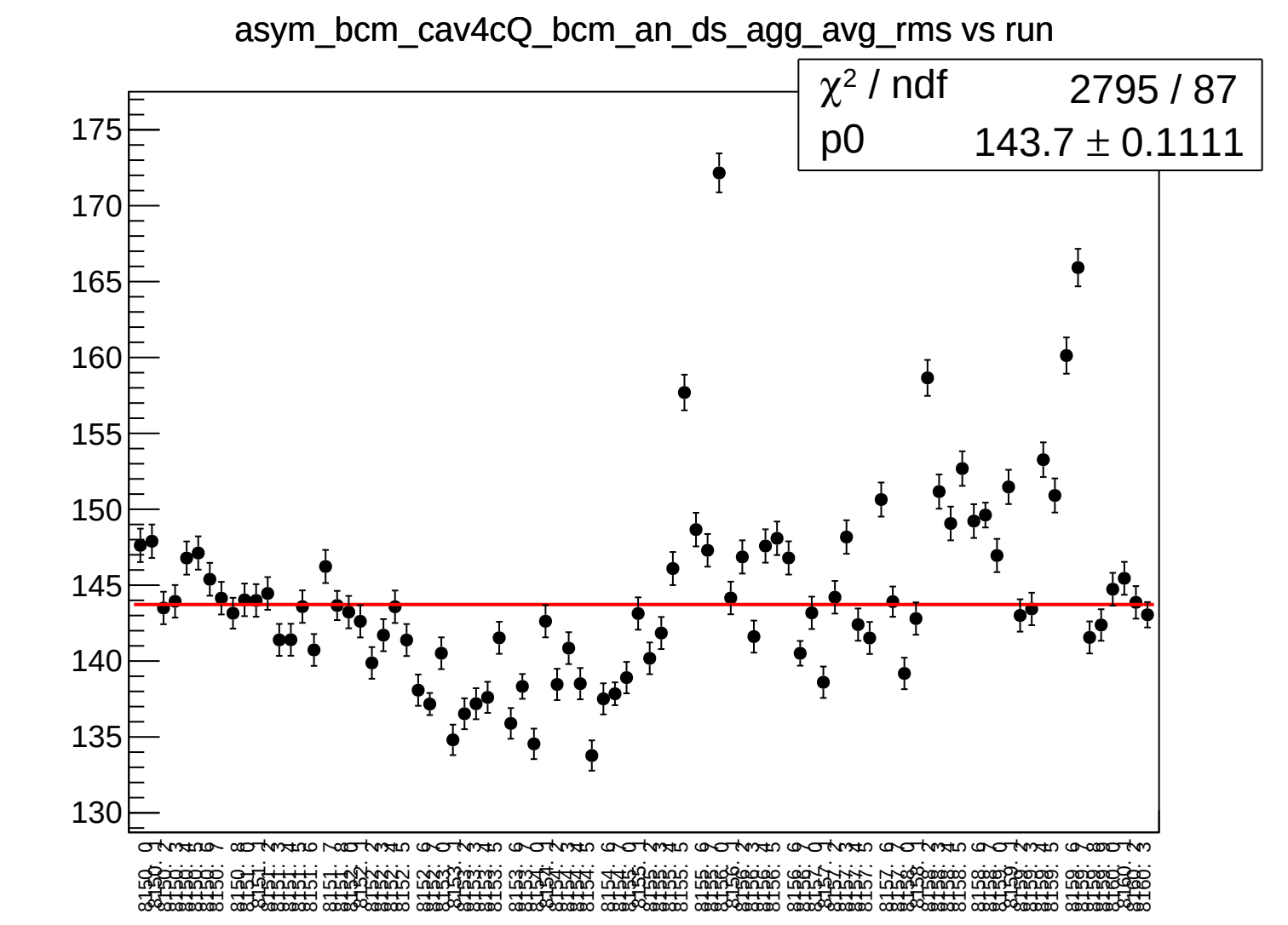

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 98.66 / 87
p0 36.07 ± 28.33
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean −292.2
Std Dev 0
2
1
0
−1
−2
−3

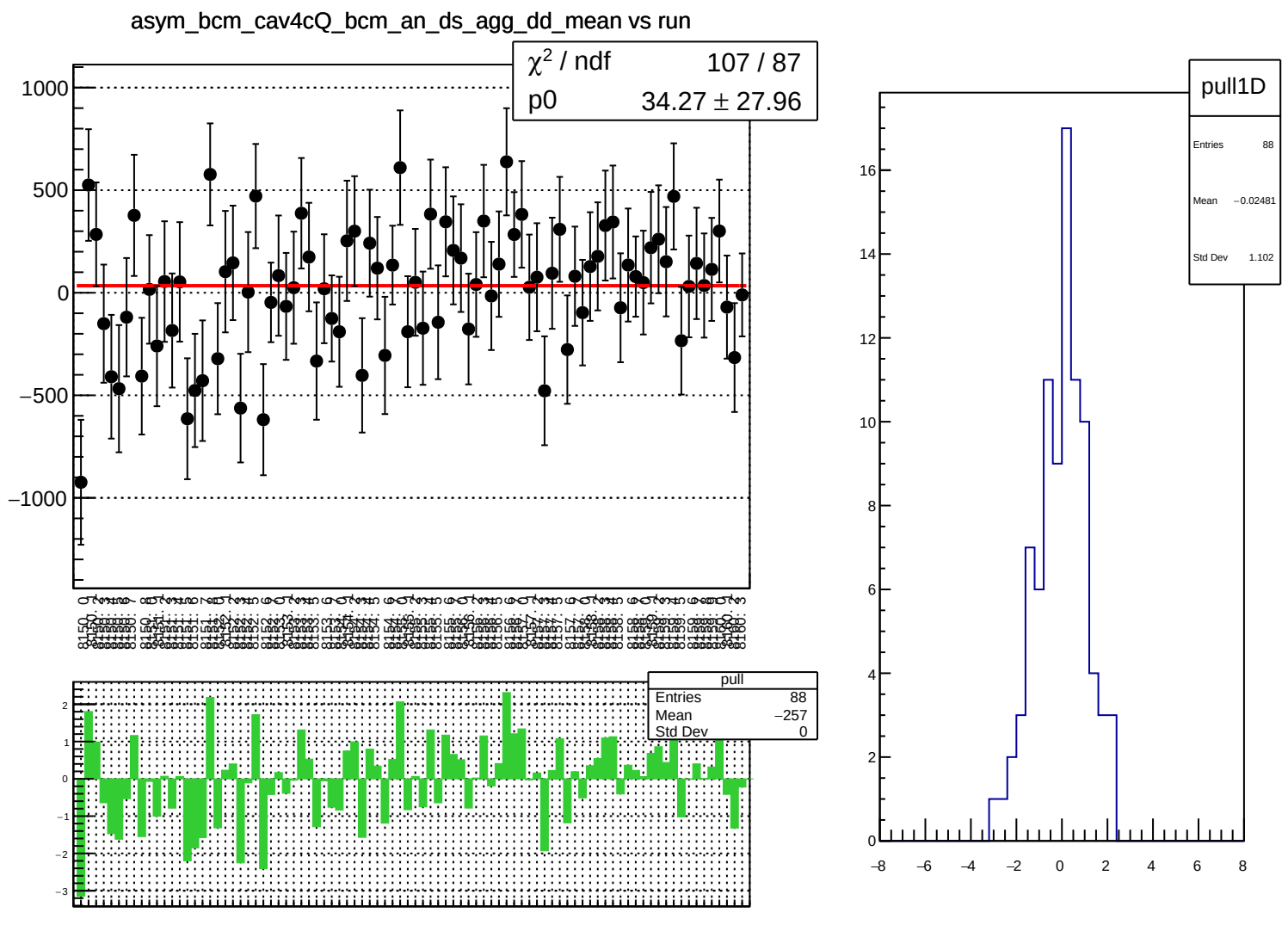

pull1D
Entries 88
Mean −0.02004
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

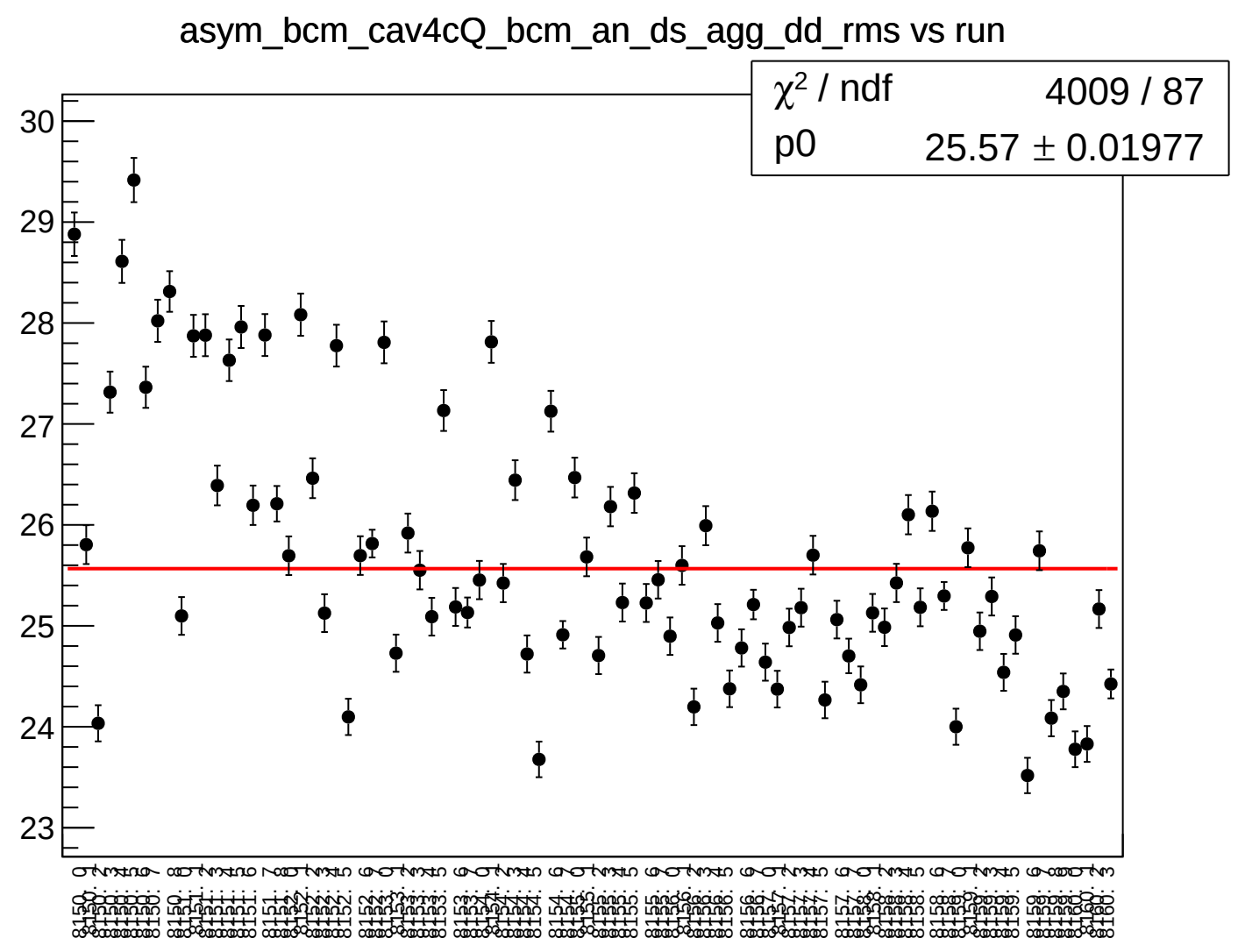

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3824 / 87
p0 25.91 ± 0.02003
30
29
28
27
26
25
24

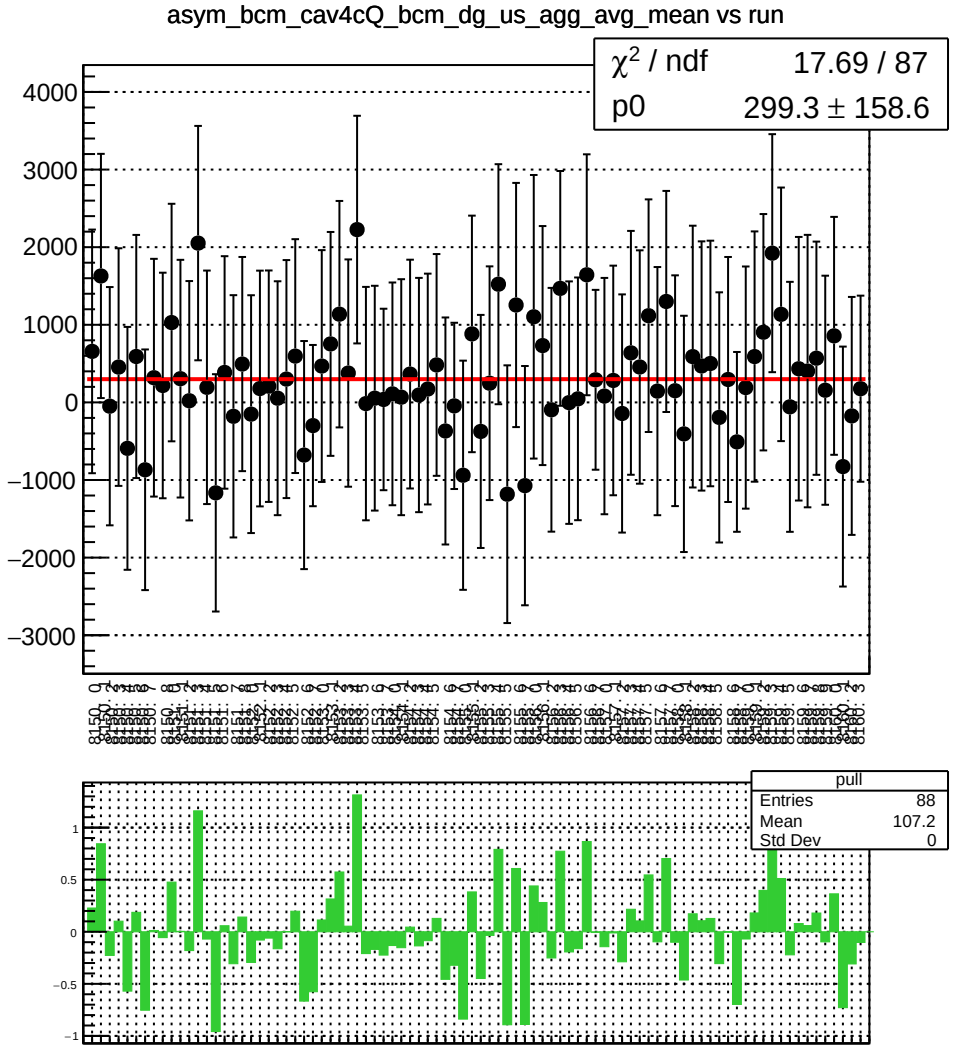

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.95 / 87
p0 276.7 ± 157.1
pull
Entries 88
Mean 49.52
Std Dev 51.31

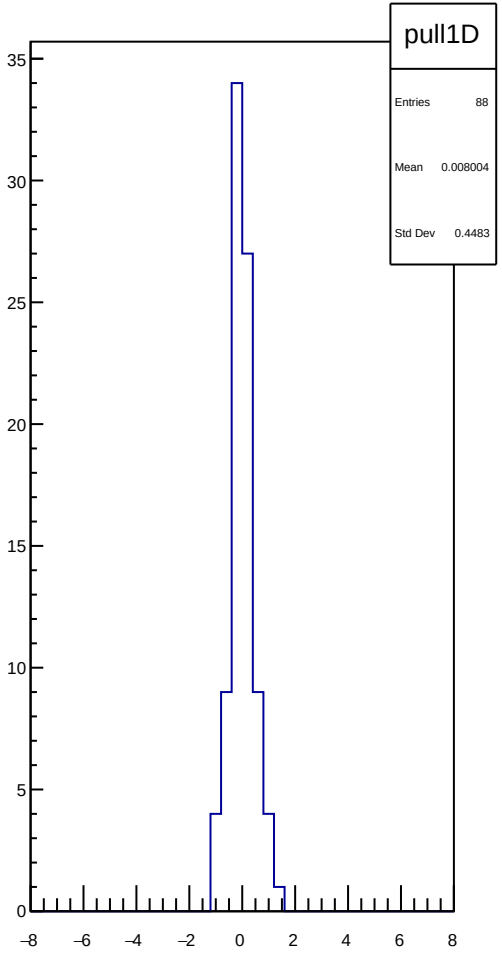

pull1D
Entries 88
Mean 0.007676
Std Dev 0.4256

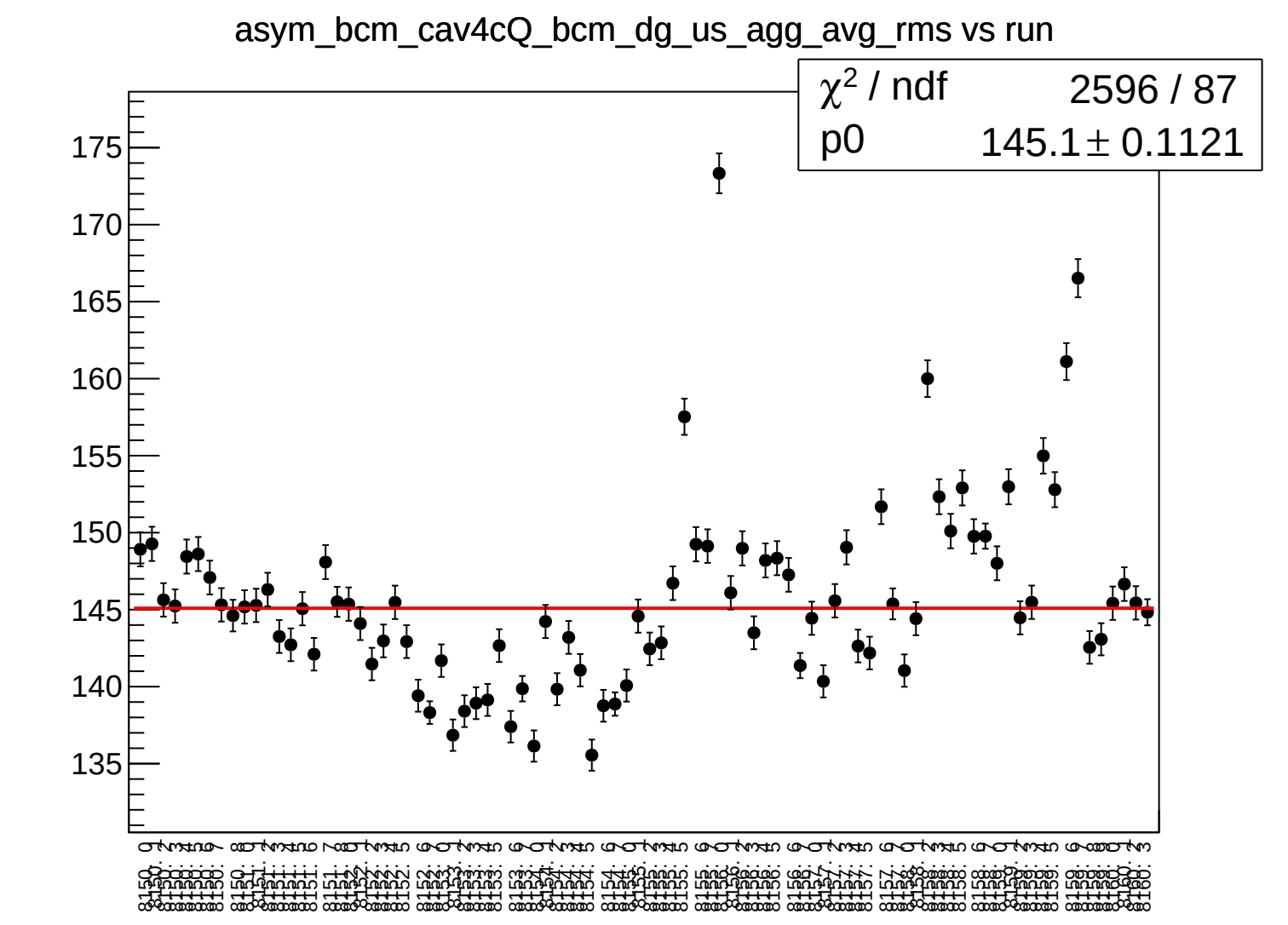

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2795 / 87
p0 143.7 ± 0.1111
175
170
165
160
155
150
145
140
135
130

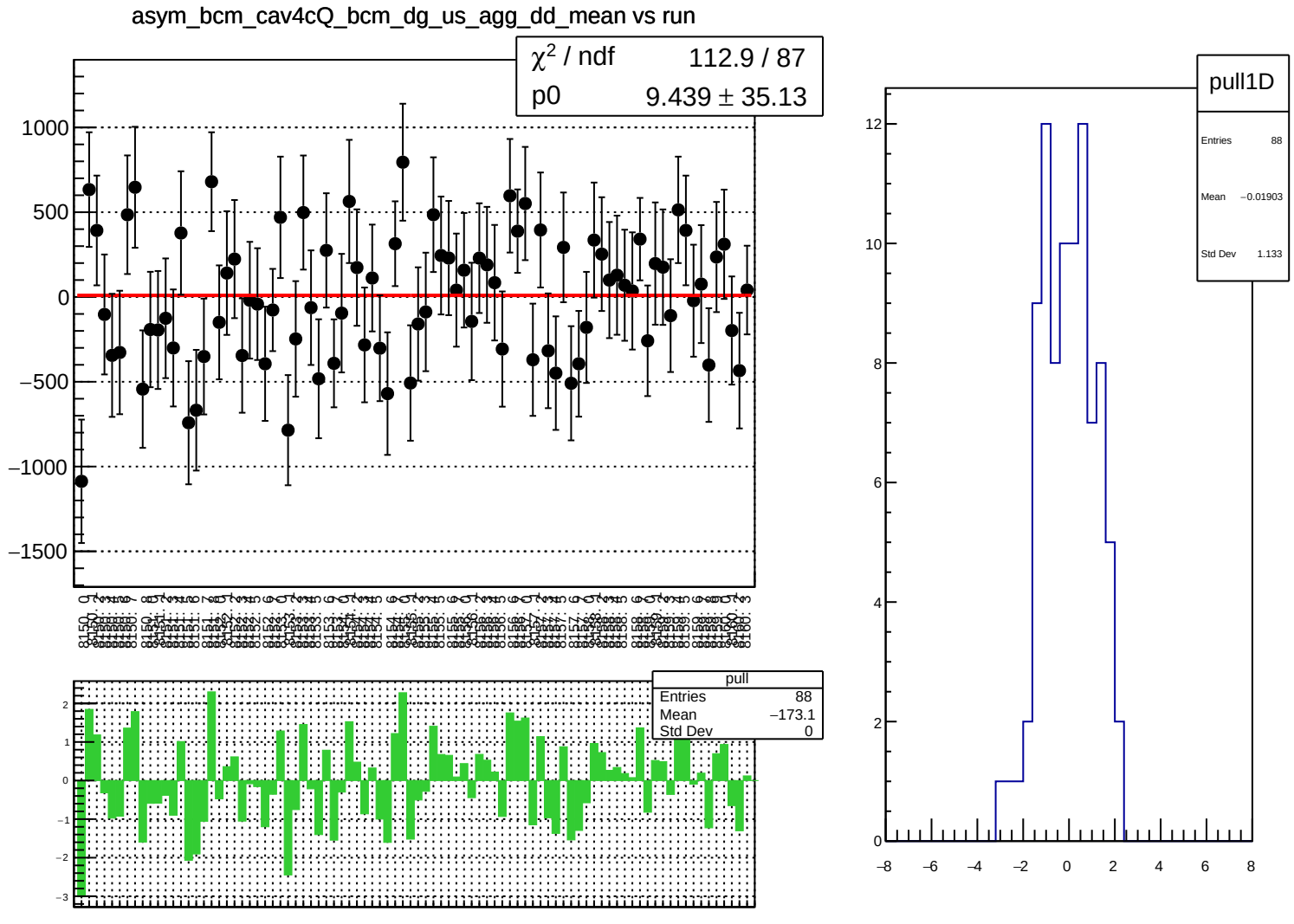

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 107 / 87
p0 34.27 ± 27.96
1000
500
0
−500
−1000
pull
Entries 88
Mean −257
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.02481
Std Dev 1.102
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

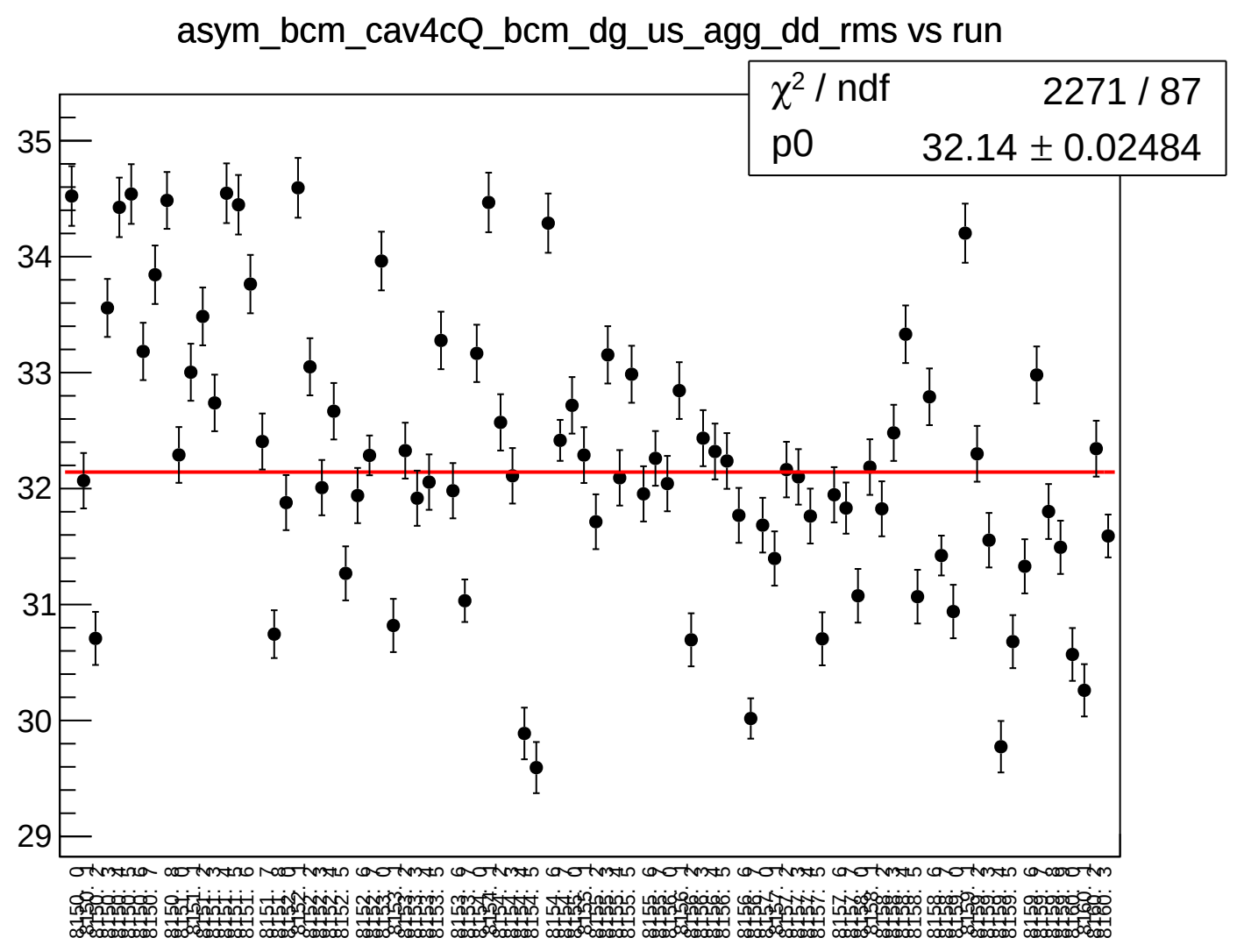

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4009 / 87
p0 25.57 ± 0.01977
30
29
28
27
26
25
24
23

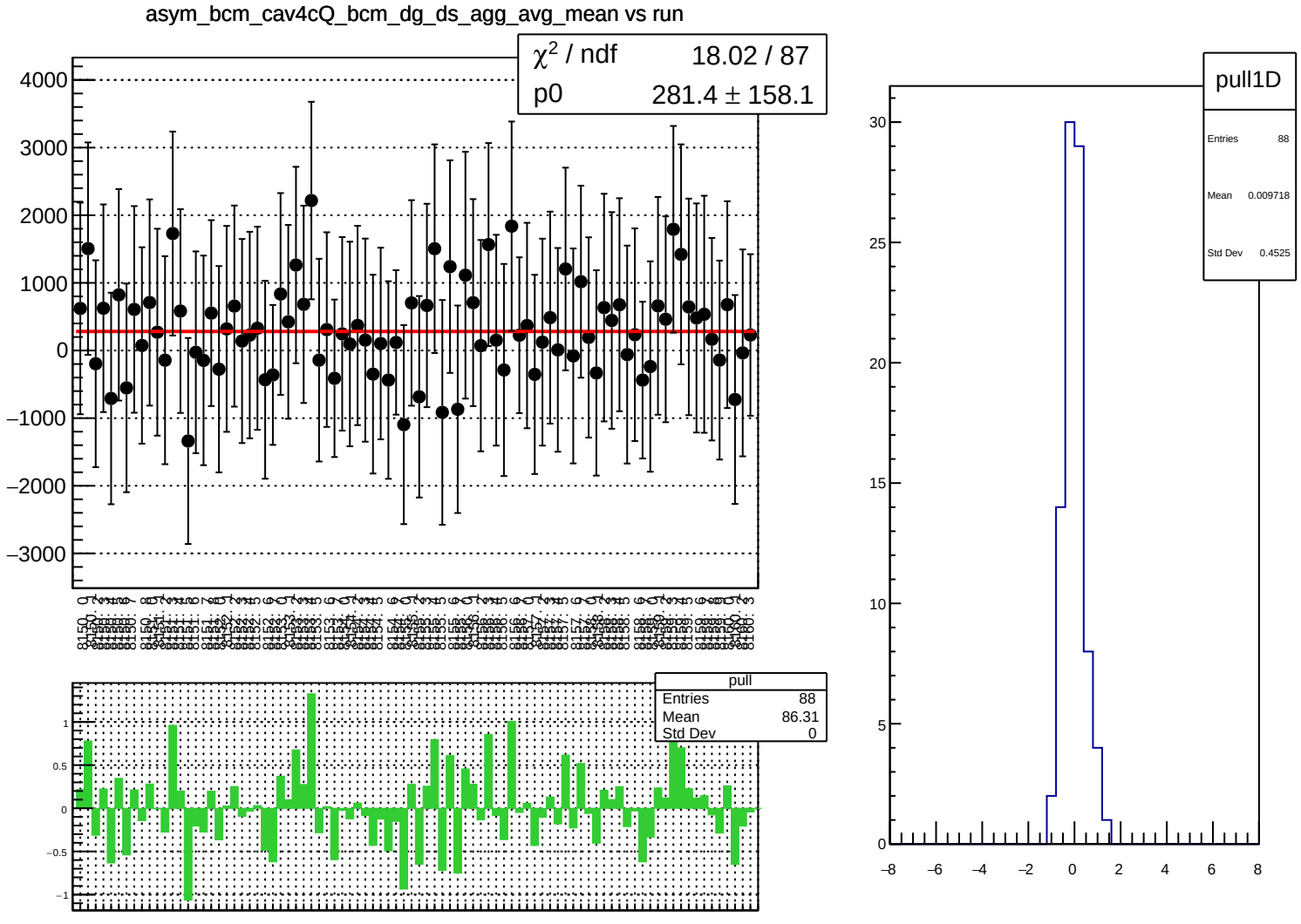

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 17.69 / 87
p0 299.3 ± 158.6
pull
Entries 88
Mean 107.2
Std Dev 0

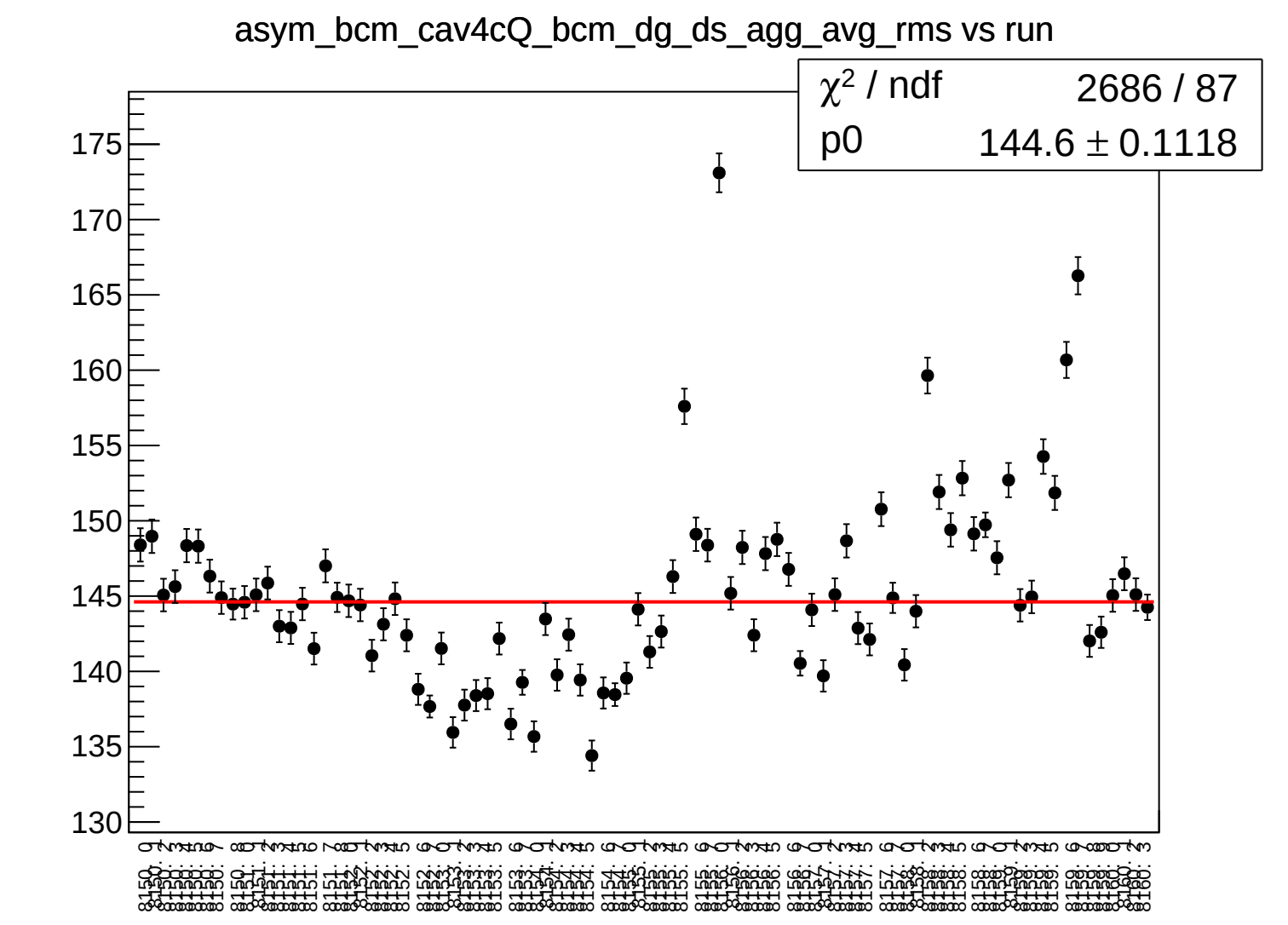

pull1D
Entries 88
Mean 0.008004
Std Dev 0.4483

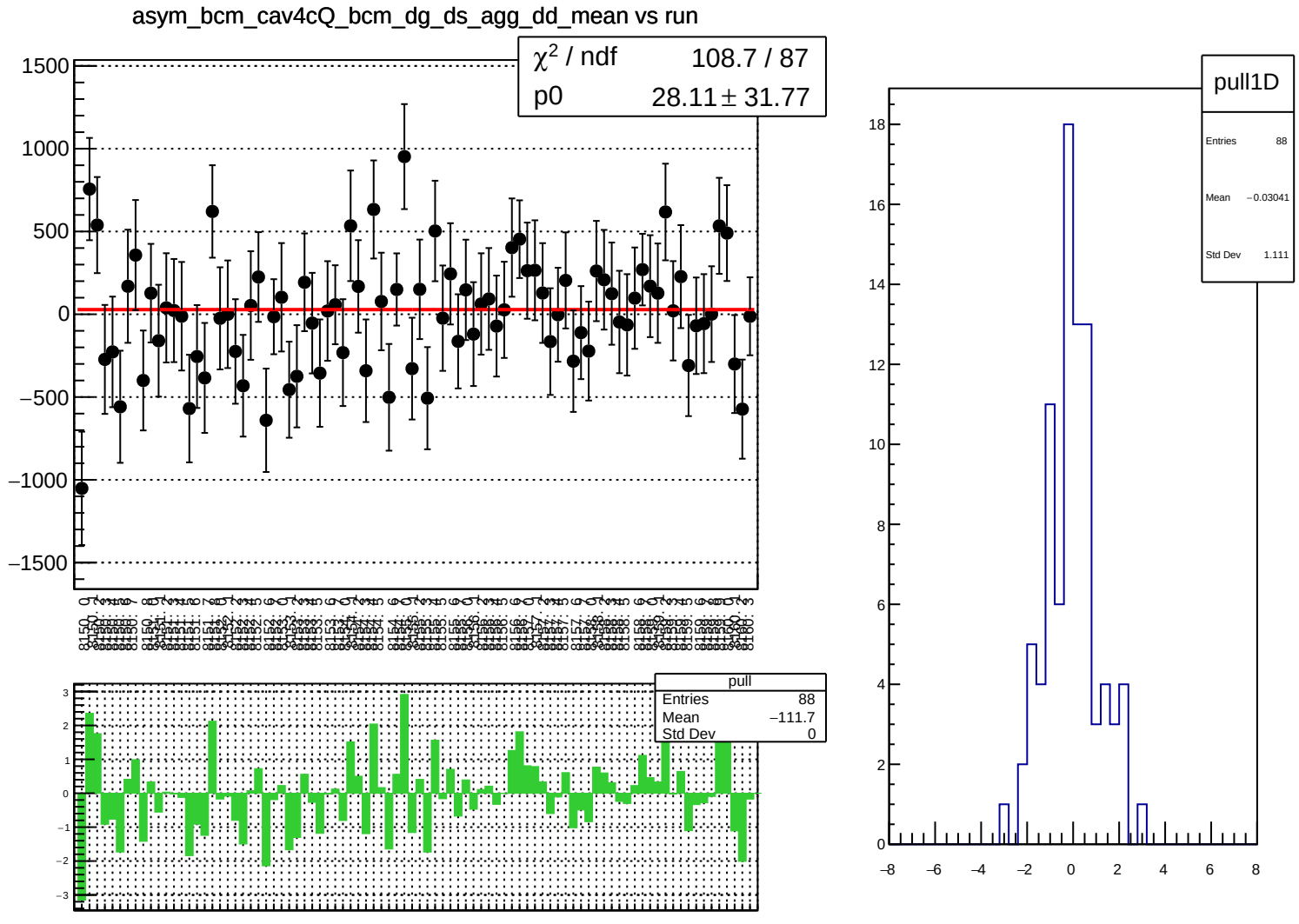

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2596 / 87
p0 145.1 ± 0.1121
175
170
165
160
155
150
145
140
135

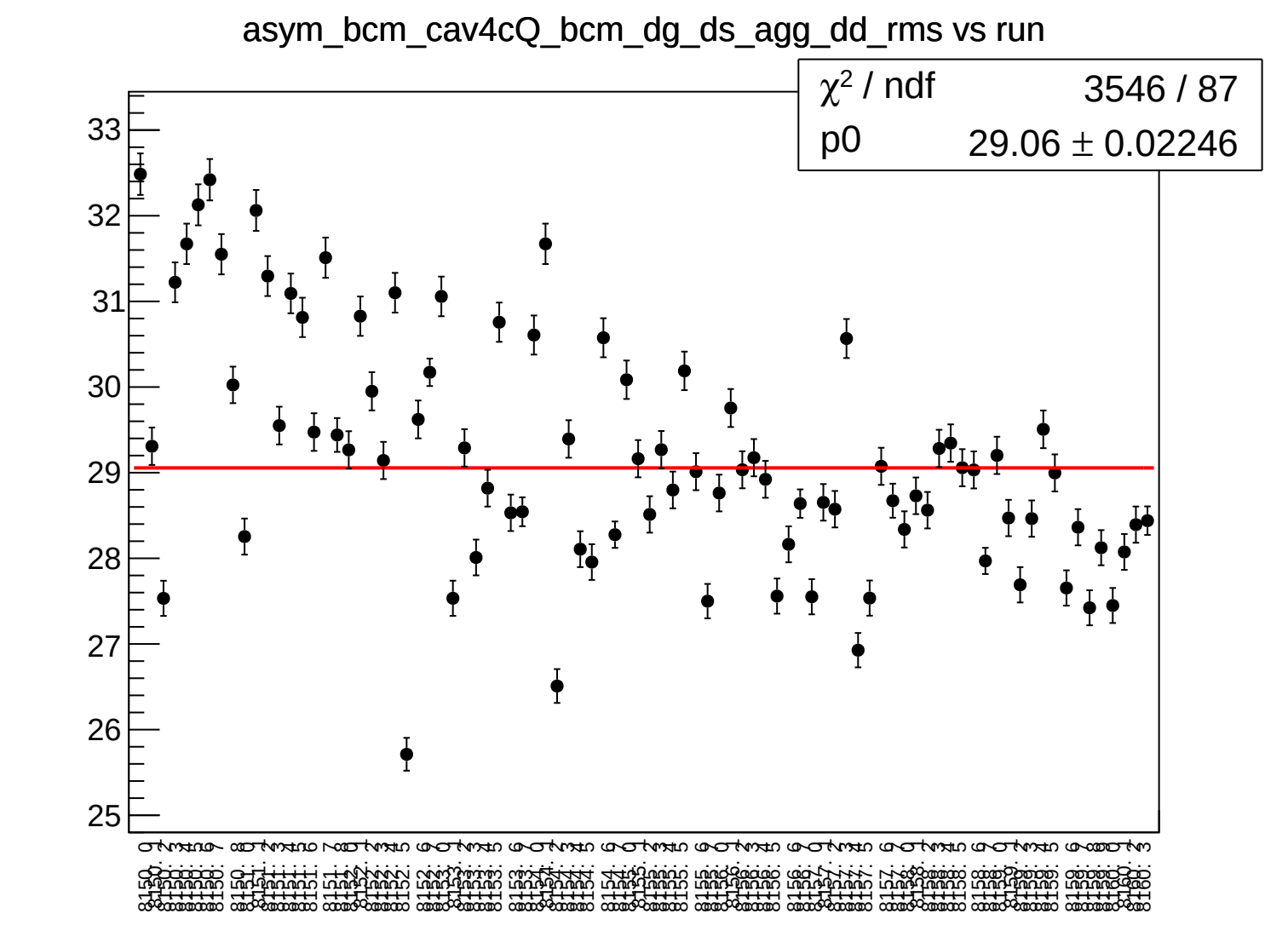

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 112.9 / 87
p0 9.439 ± 35.13
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean −173.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01903
Std Dev 1.133
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

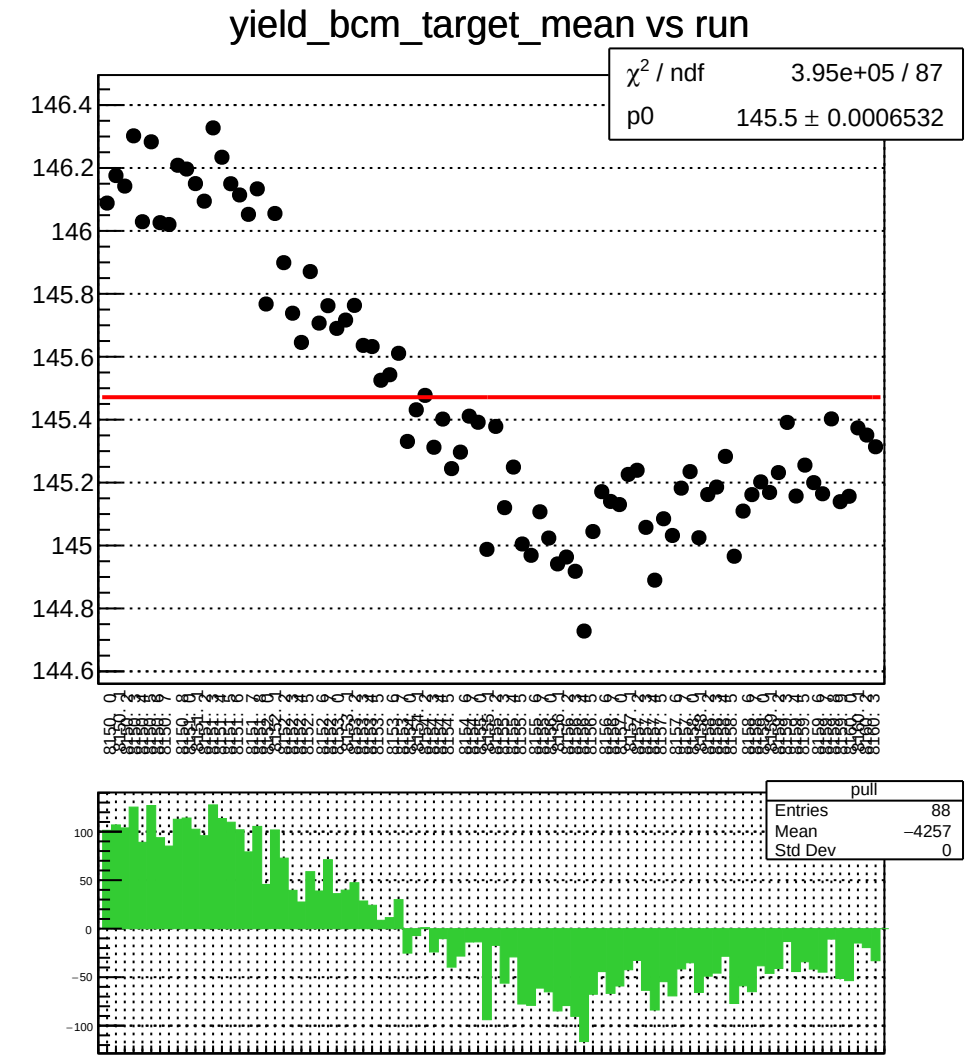

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2271 / 87
p0 32.14 ± 0.02484
35
34
33
32
31
30
29

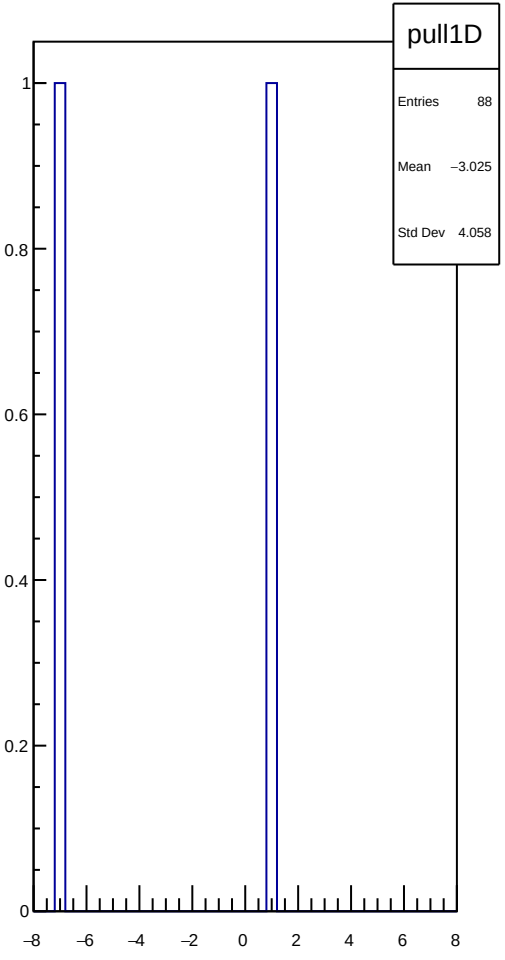

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 18.02 / 87
p0 281.4 ± 158.1
pull
Entries 88
Mean 86.31
Std Dev 0
pull1D
Entries 88
Mean 0.009718
Std Dev 0.4525

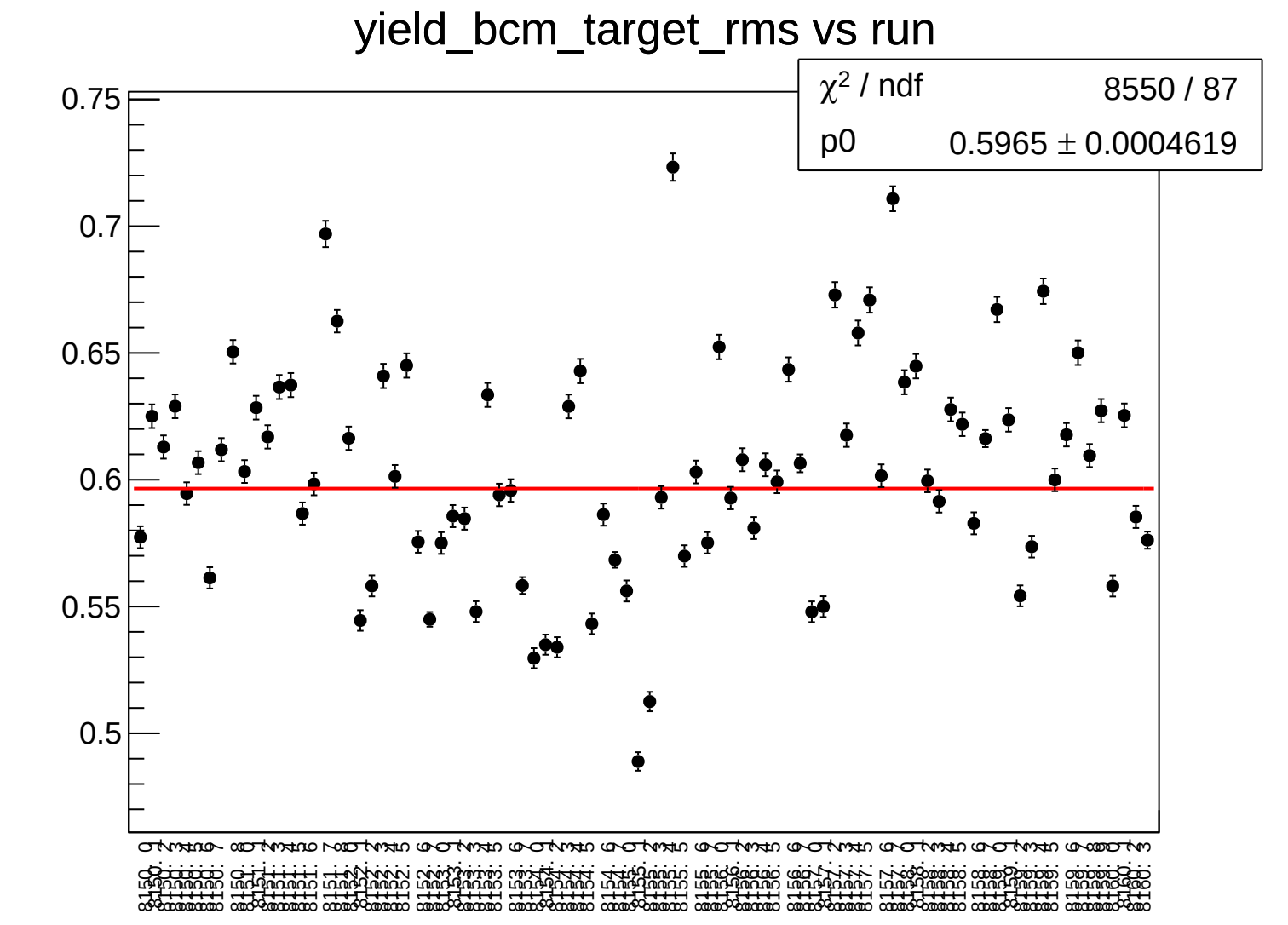

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2686 / 87
p0 144.6 ± 0.1118
175
170
165
160
155
150
145
140
135
130

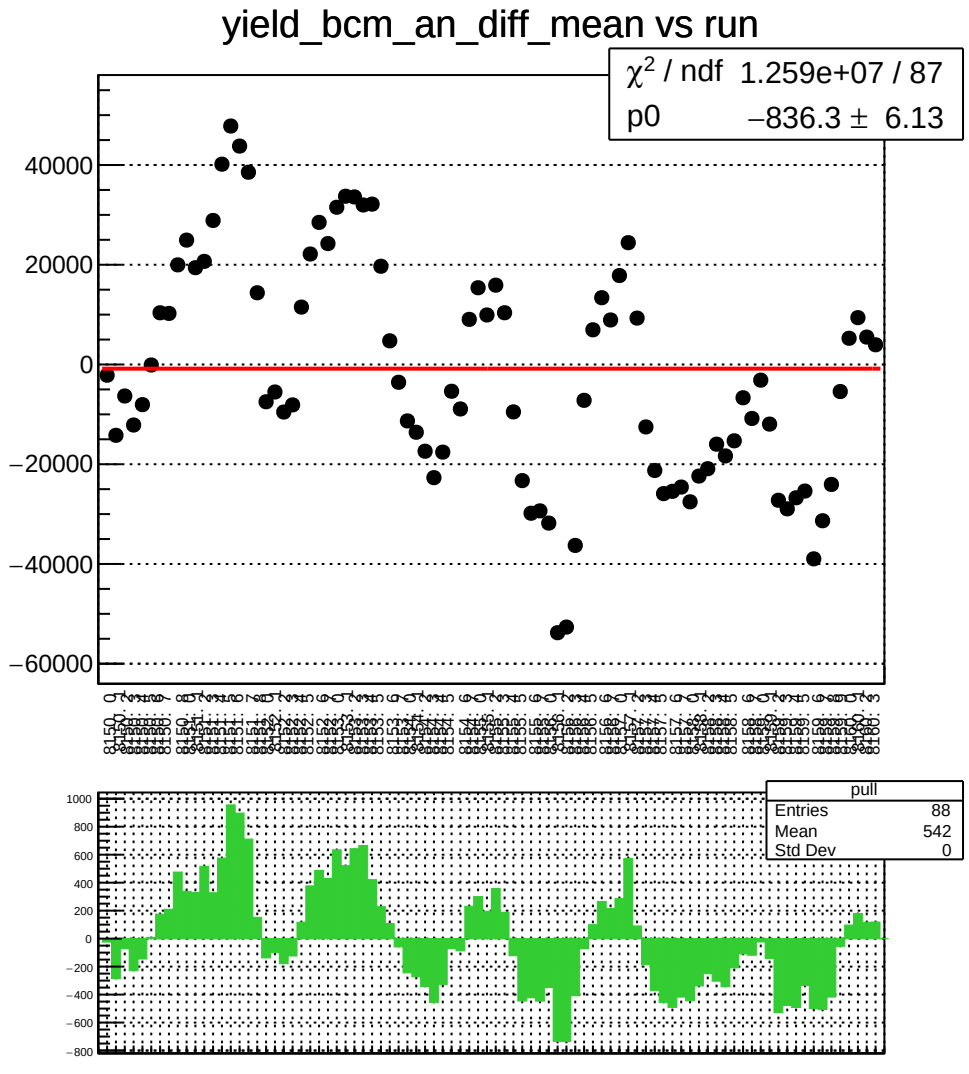

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 108.7 / 87
p0 28.11 ± 31.77
pull
Entries 88
Mean −111.7
Std Dev 0
pull1D
Entries 88
Mean −0.03041
Std Dev 1.111

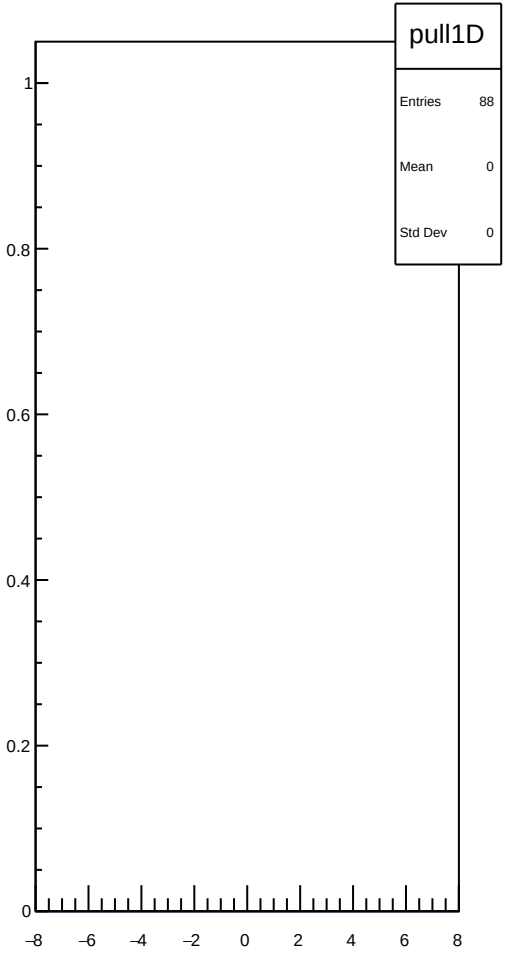

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3546 / 87
p0 29.06 ± 0.02246
33
32
31
30
29
28
27
26
25

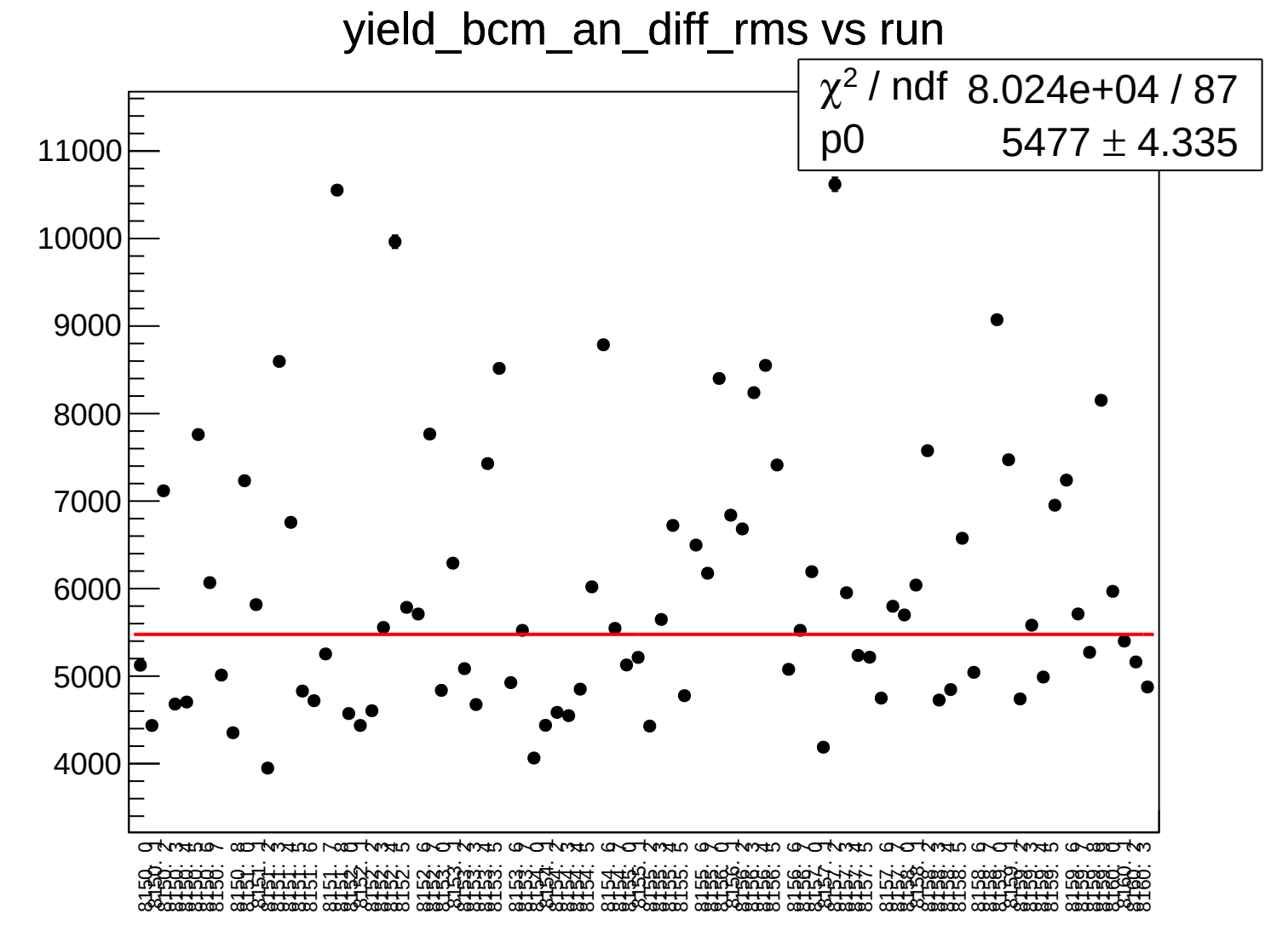

yield_bcm_target_mean vs run
χ² / ndf 3.95e+05 / 87
p0 145.5 ± 0.0006532
146.4
146.2
146
145.8
145.6
145.4
145.2
145
144.8
144.6
pull
Entries 88
Mean −4257
Std Dev 0
100
50
0
−50
−100

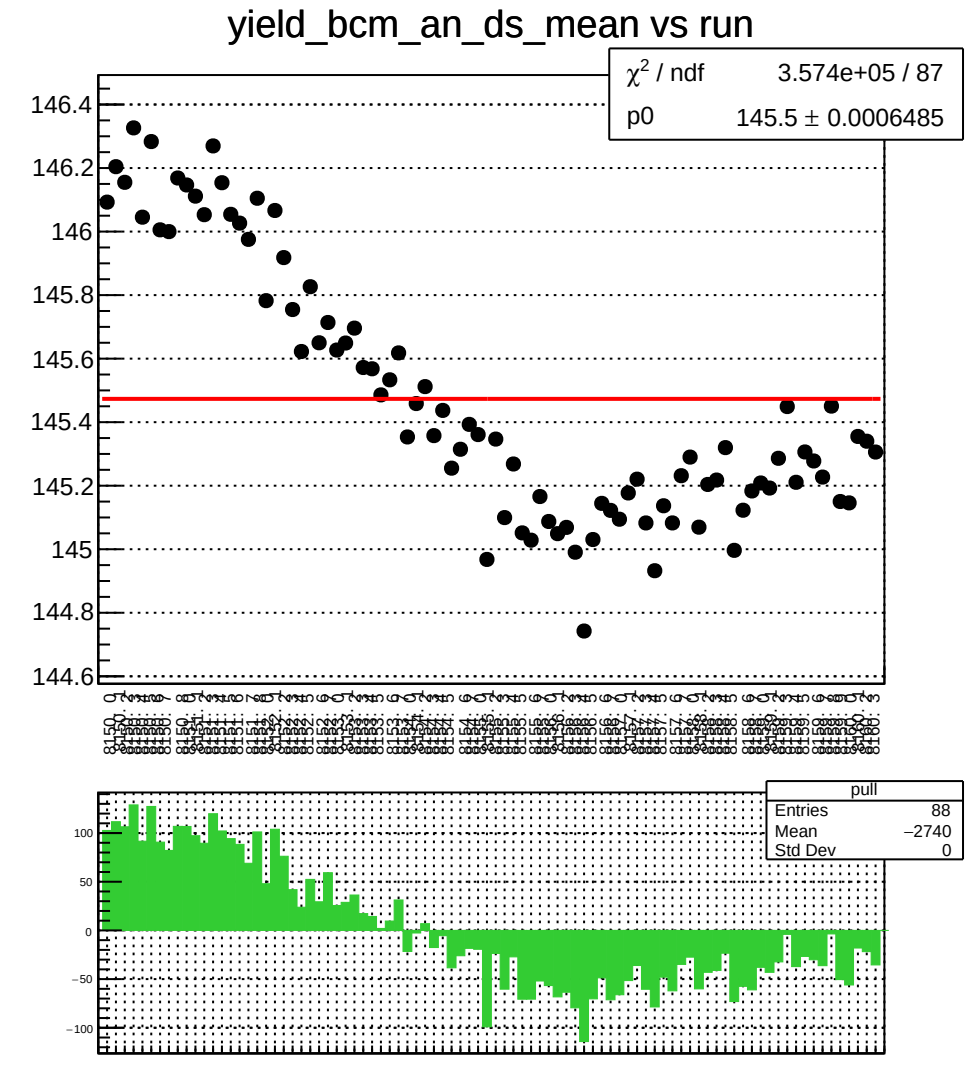

pull1D
Entries 88
Mean −3.025
Std Dev 4.058
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

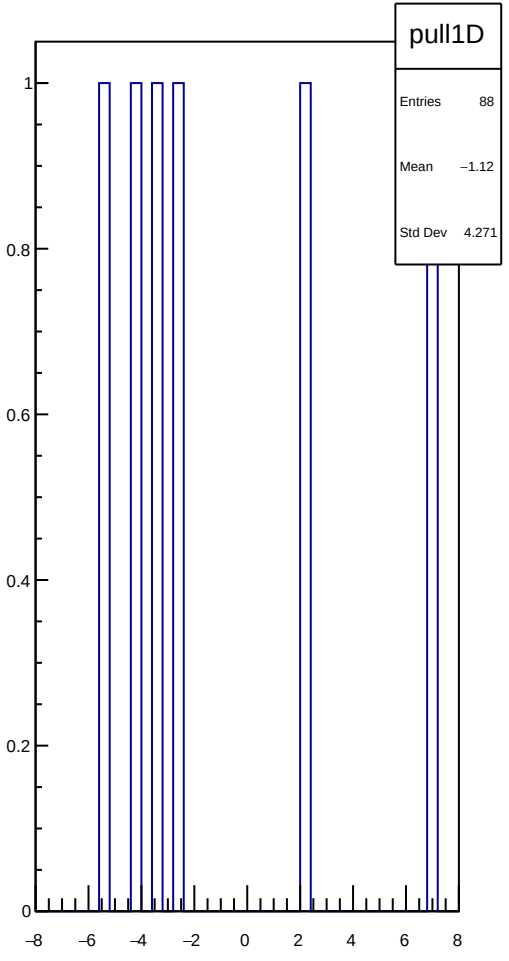

yield_bcm_target_rms vs run
χ² / ndf 8550 / 87
p0 0.5965 ± 0.0004619
0.75
0.7
0.65
0.6
0.55
0.5

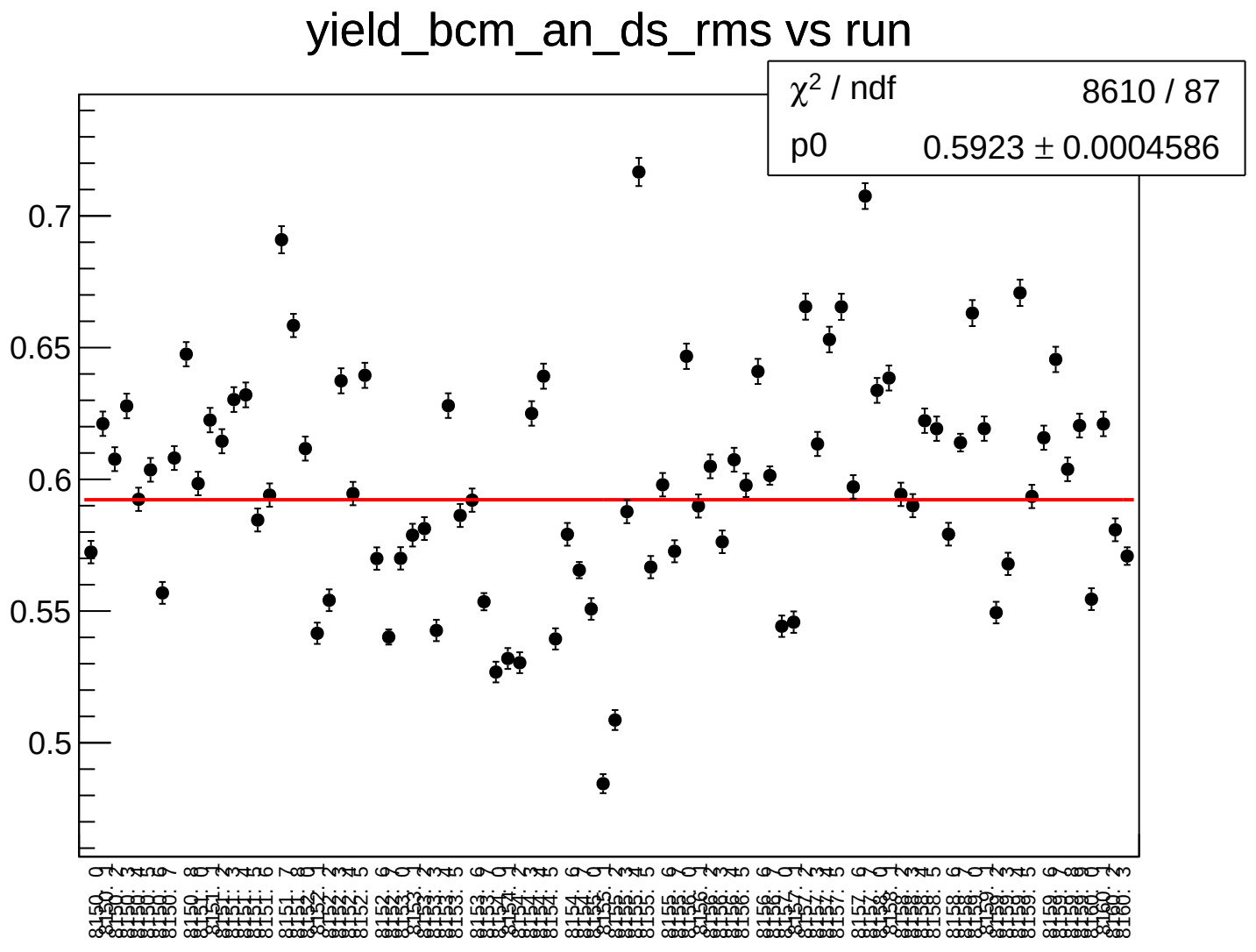

yield_bcm_an_diff_mean vs run
χ² / ndf 1.259e+07 / 87
p0 −836.3 ± 6.13
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 542
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

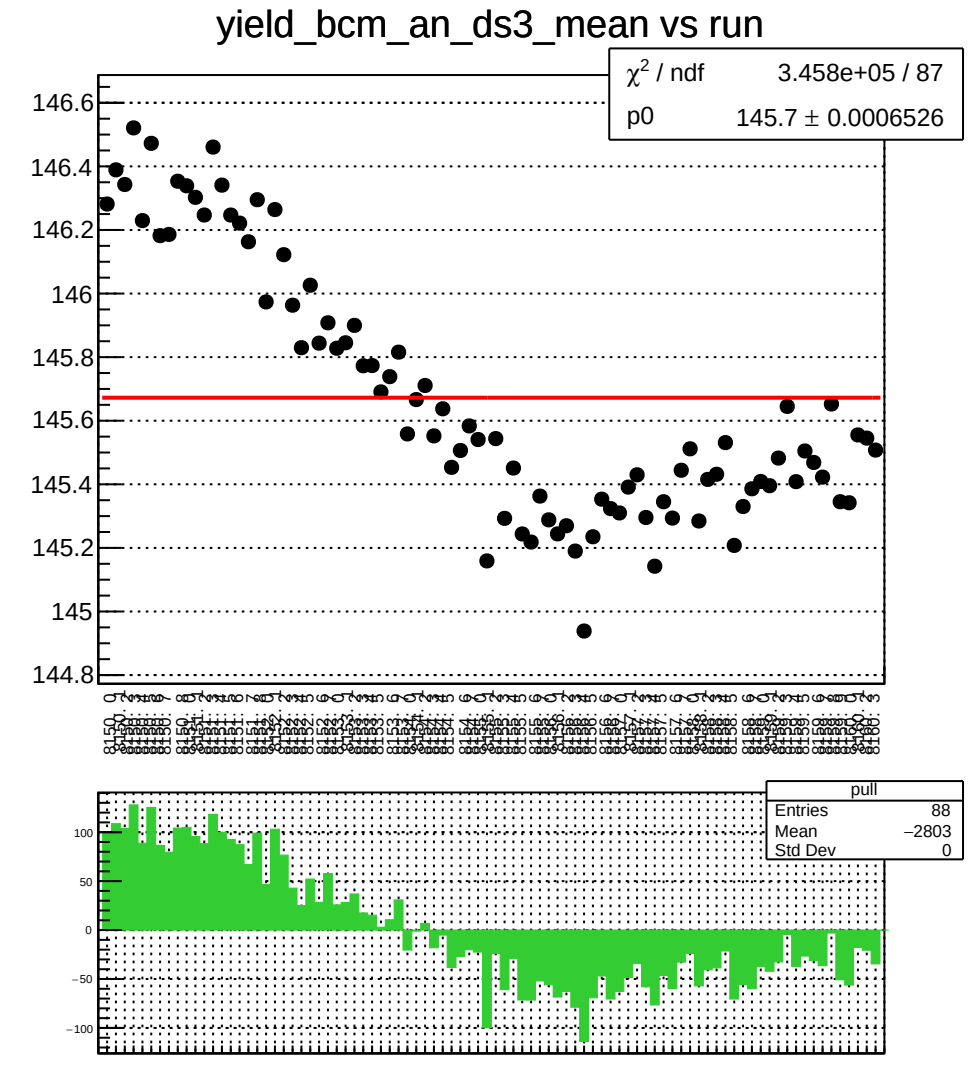

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

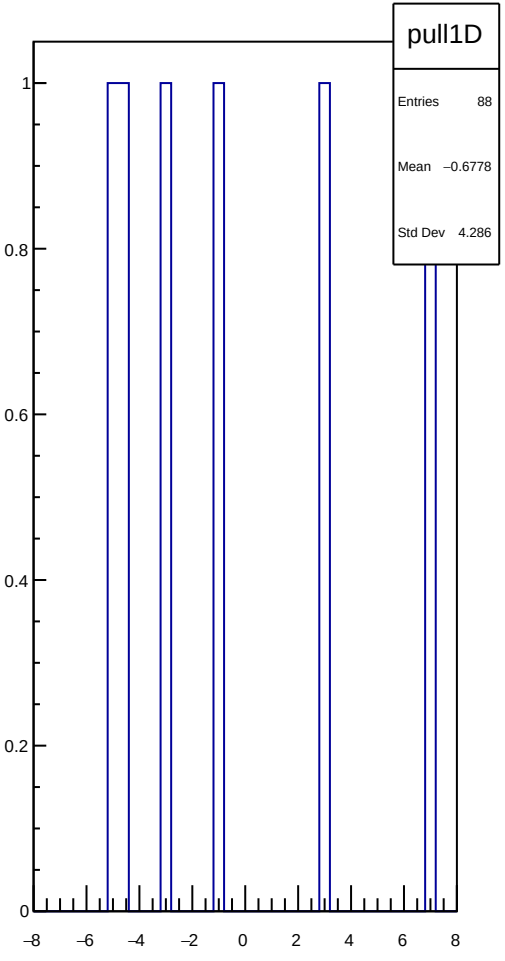

yield_bcm_an_diff_rms vs run
χ^2 / ndf 8.024e+04 / 87
p0 5477 ± 4.335
11000
10000
9000
8000
7000
6000
5000
4000

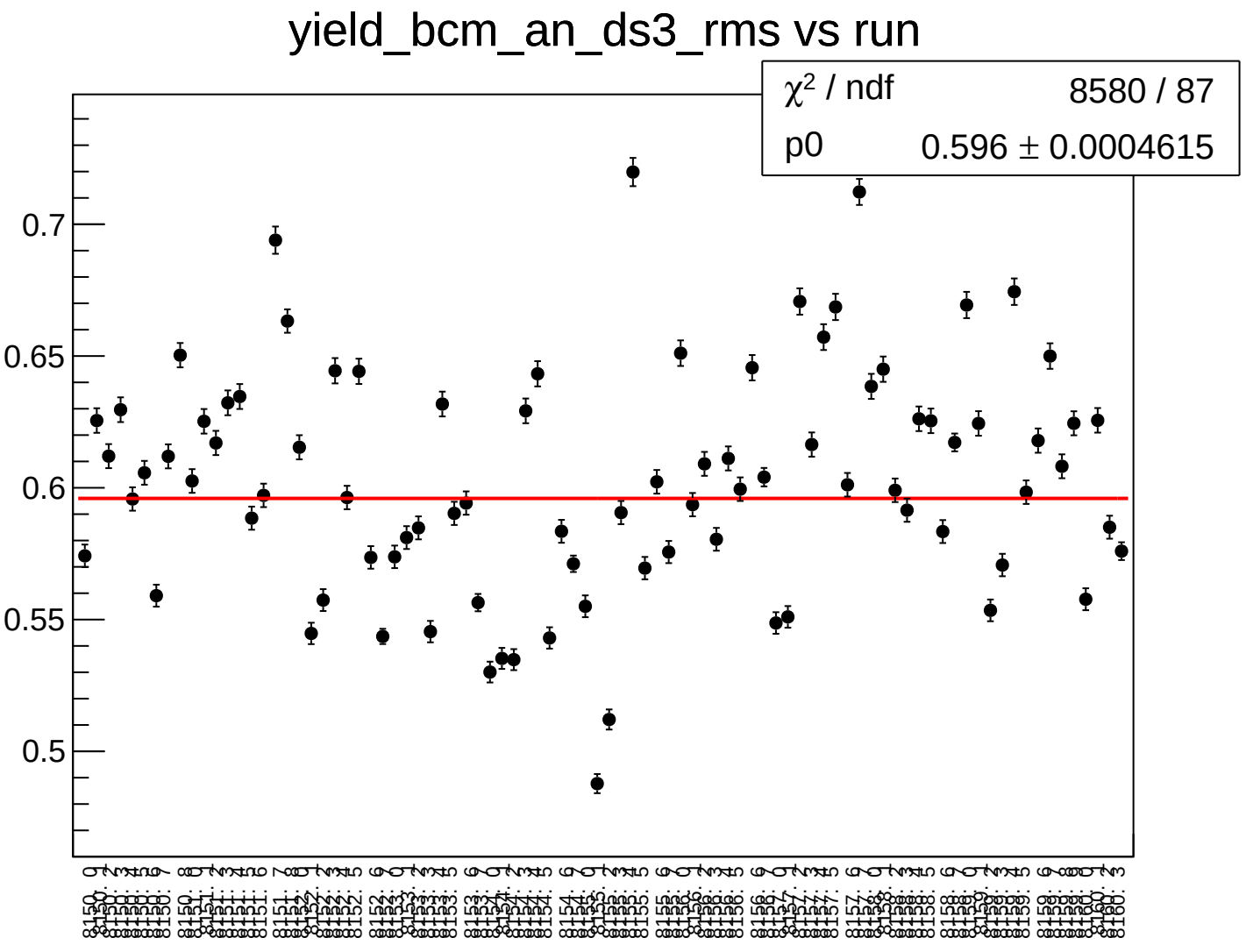

yield_bcm_an_ds_mean vs run
χ² / ndf 3.574e+05 / 87
p0 145.5 ± 0.0006485
146.4
146.2
146
145.8
145.6
145.4
145.2
145
144.8
144.6
pull
Entries 88
Mean −2740
Std Dev 0
100
50
0
−50
−100

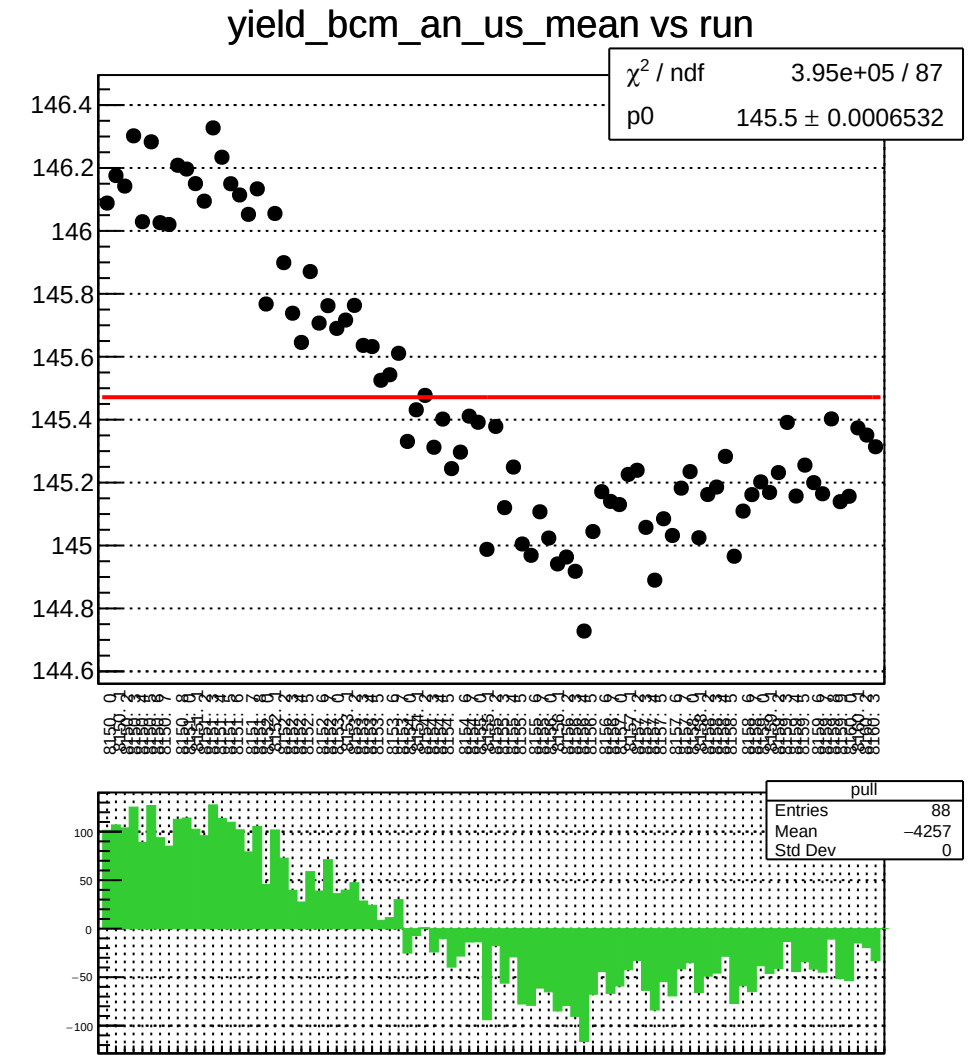

pull1D
Entries 88
Mean −1.12
Std Dev 4.271
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

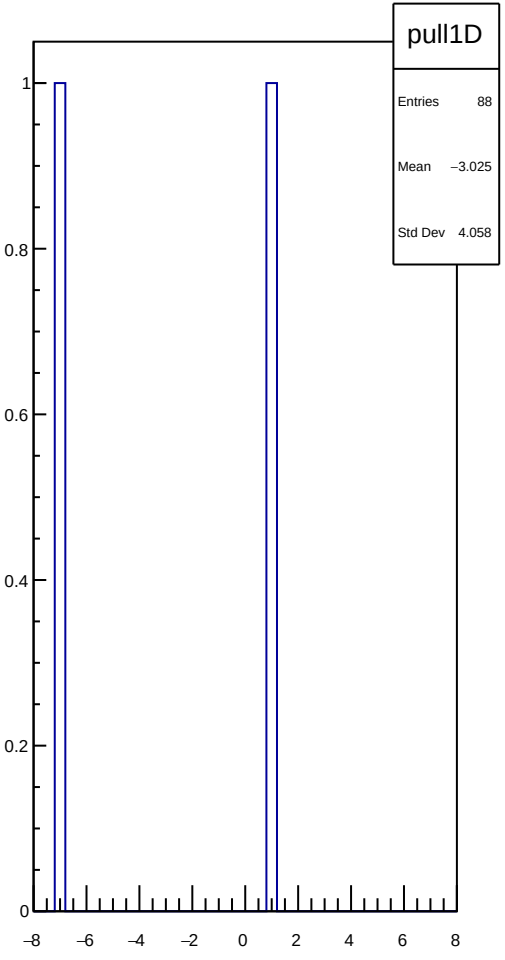

yield_bcm_an_ds_rms vs run
χ² / ndf 8610 / 87
p0 0.5923 ± 0.0004586
0.7
0.65
0.6
0.55
0.5

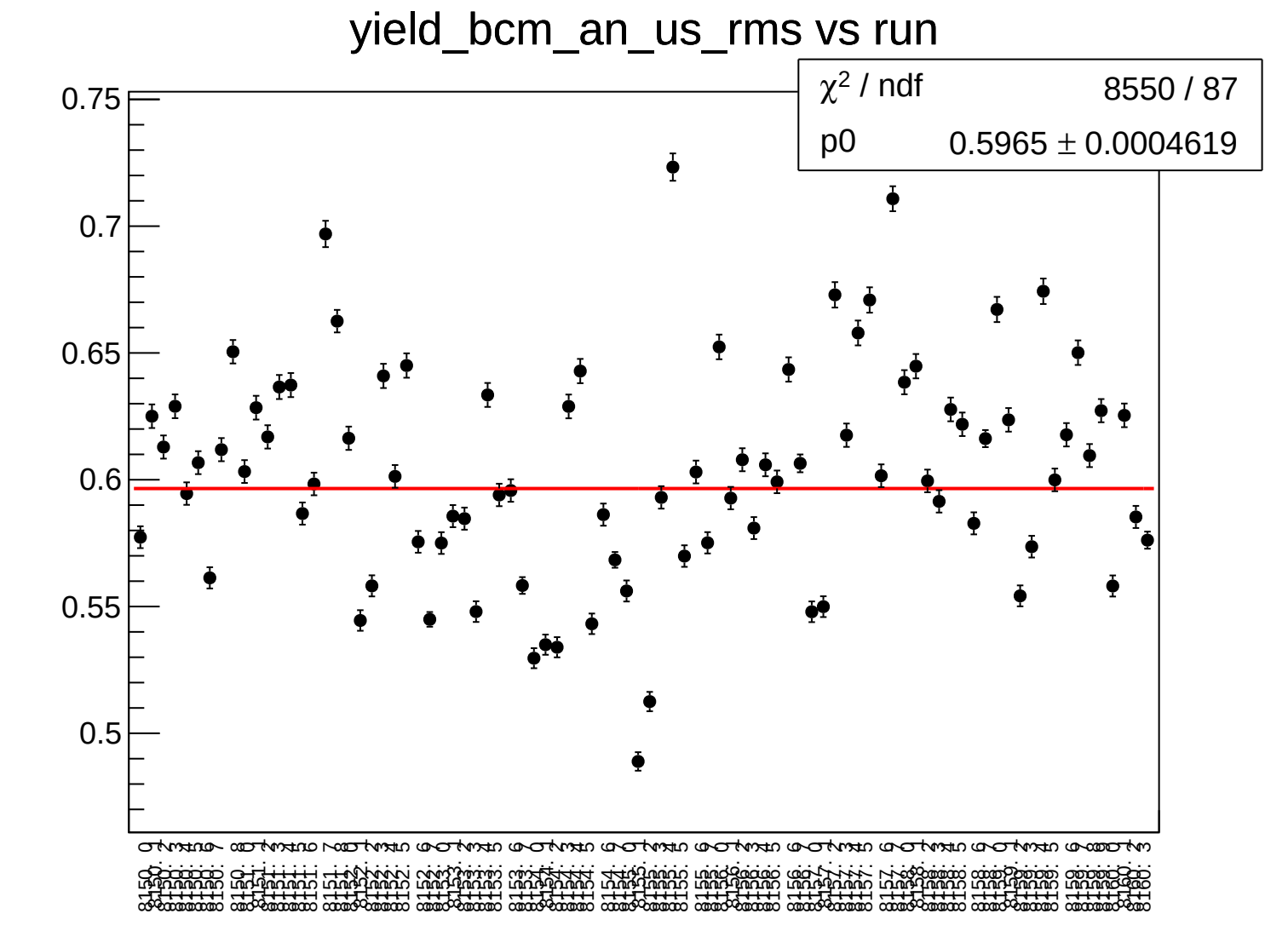

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.458e+05 / 87
p0 145.7 ± 0.0006526
146.6
146.4
146.2
146
145.8
145.6
145.4
145.2
145
144.8
pull
Entries 88
Mean −2803
Std Dev 0
100
50
0
−50
−100

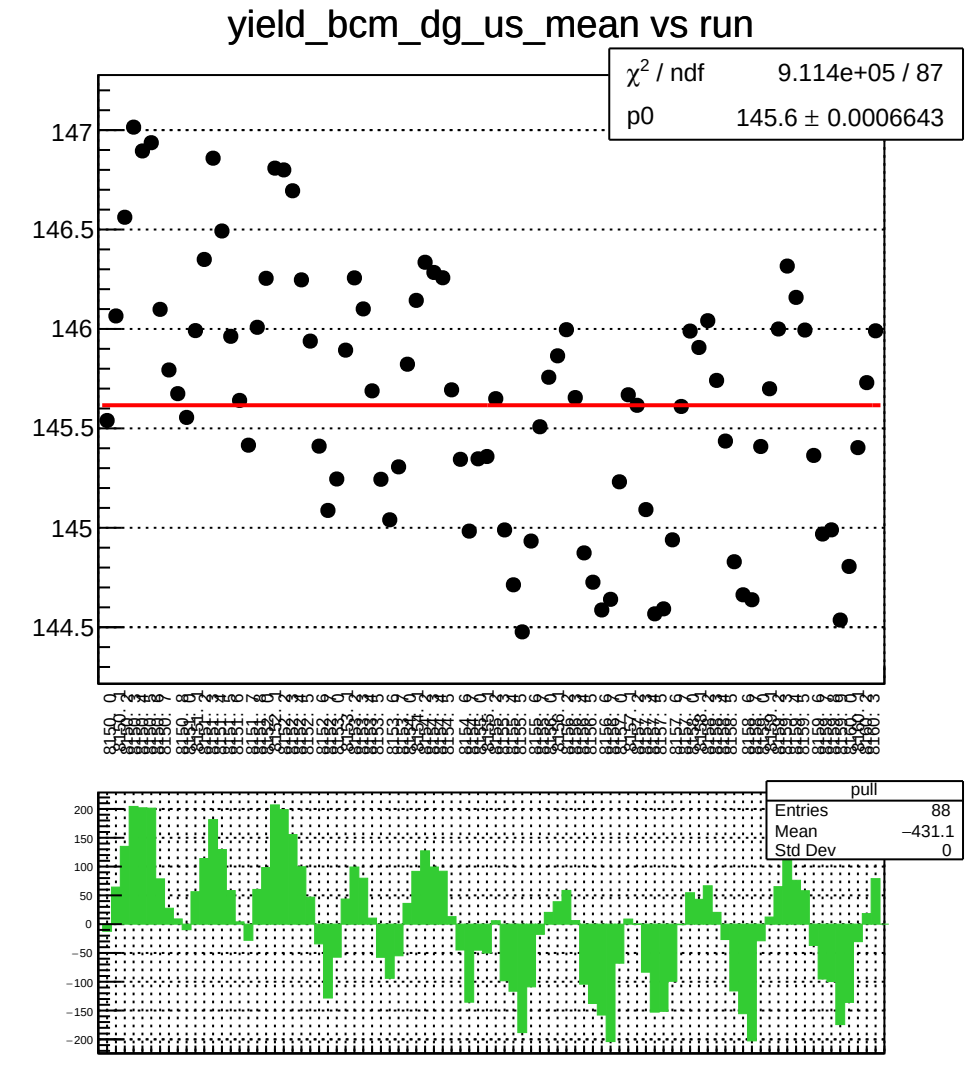

pull1D
Entries 88
Mean −0.6778
Std Dev 4.286
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

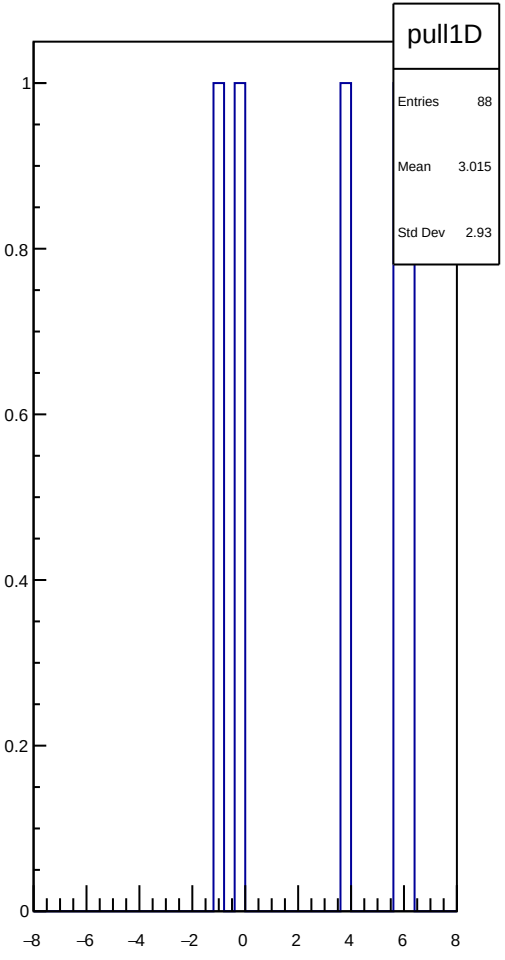

yield_bcm_an_ds3_rms vs run
χ² / ndf 8580 / 87
p0 0.596 ± 0.0004615
0.7
0.65
0.6
0.55
0.5

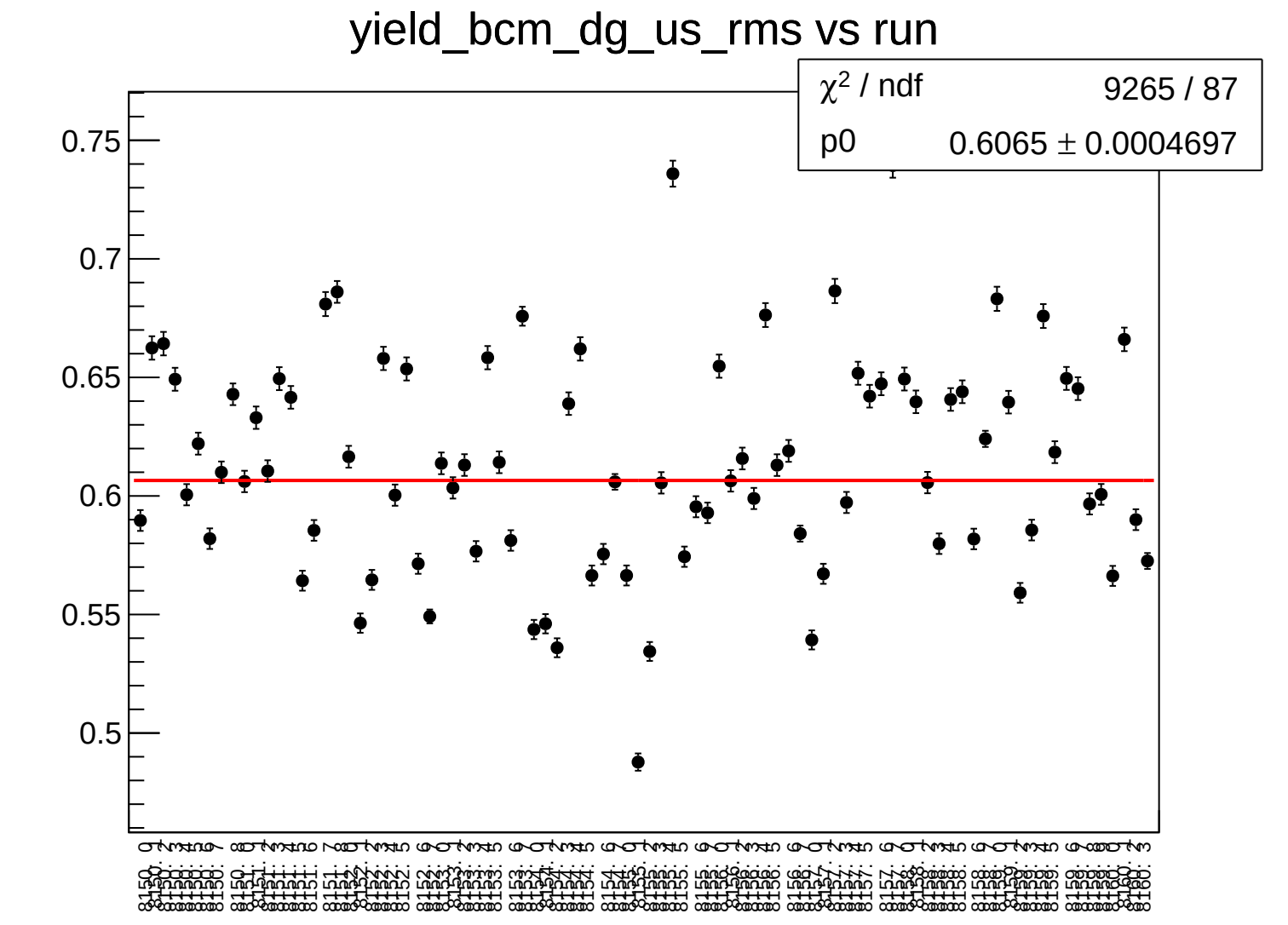

yield_bcm_an_us_mean vs run
χ² / ndf 3.95e+05 / 87
p0 145.5 ± 0.0006532
146.4
146.2
146
145.8
145.6
145.4
145.2
145
144.8
144.6
pull
Entries 88
Mean −4257
Std Dev 0
100
50
0
−50
−100

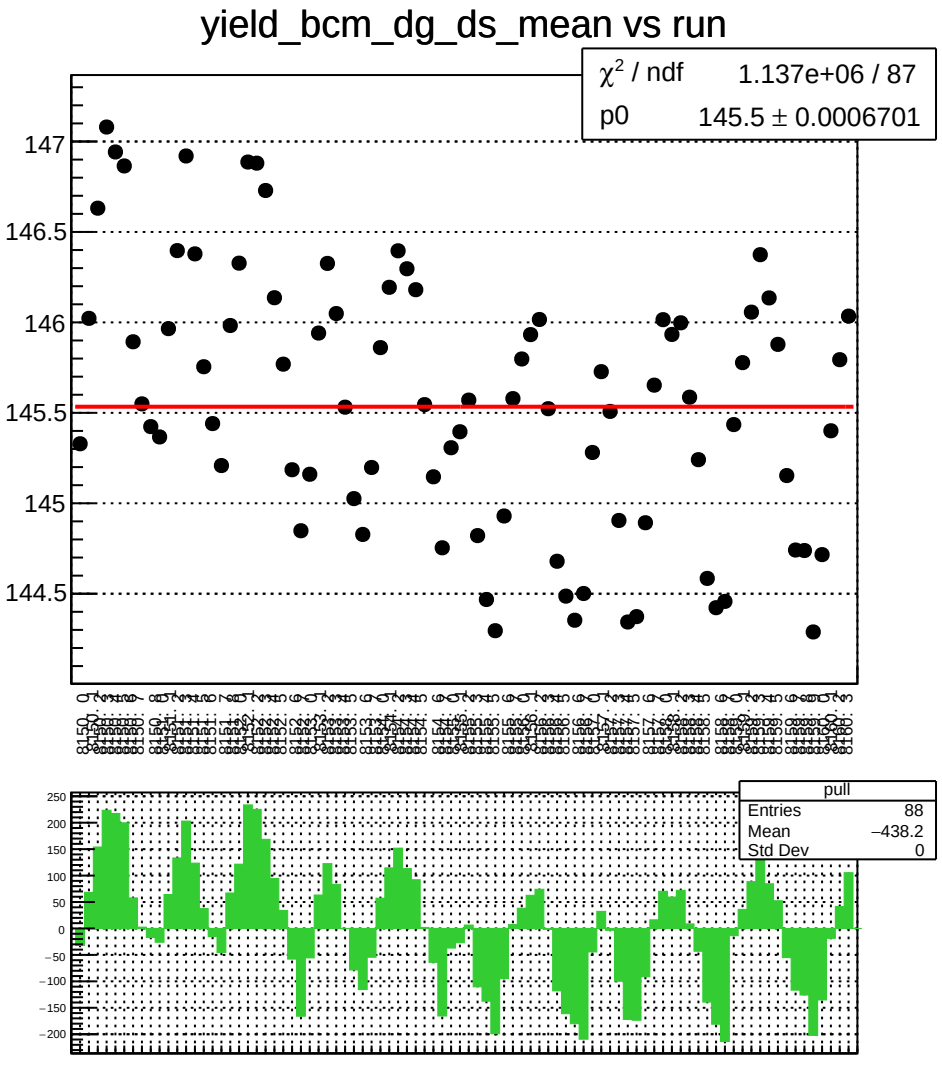

pull1D
Entries 88
Mean −3.025
Std Dev 4.058
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

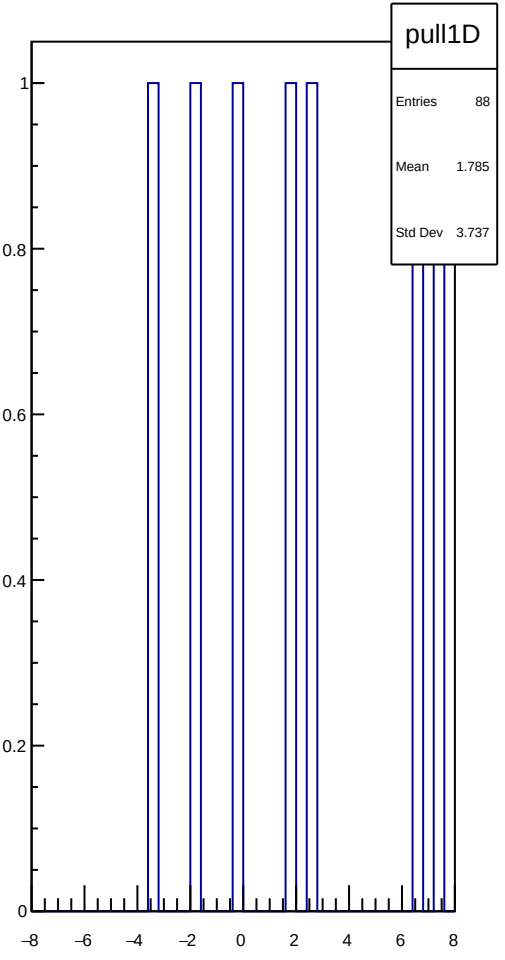

yield_bcm_an_us_rms vs run
χ² / ndf 8550 / 87
p0 0.5965 ± 0.0004619
0.75
0.7
0.65
0.6
0.55
0.5

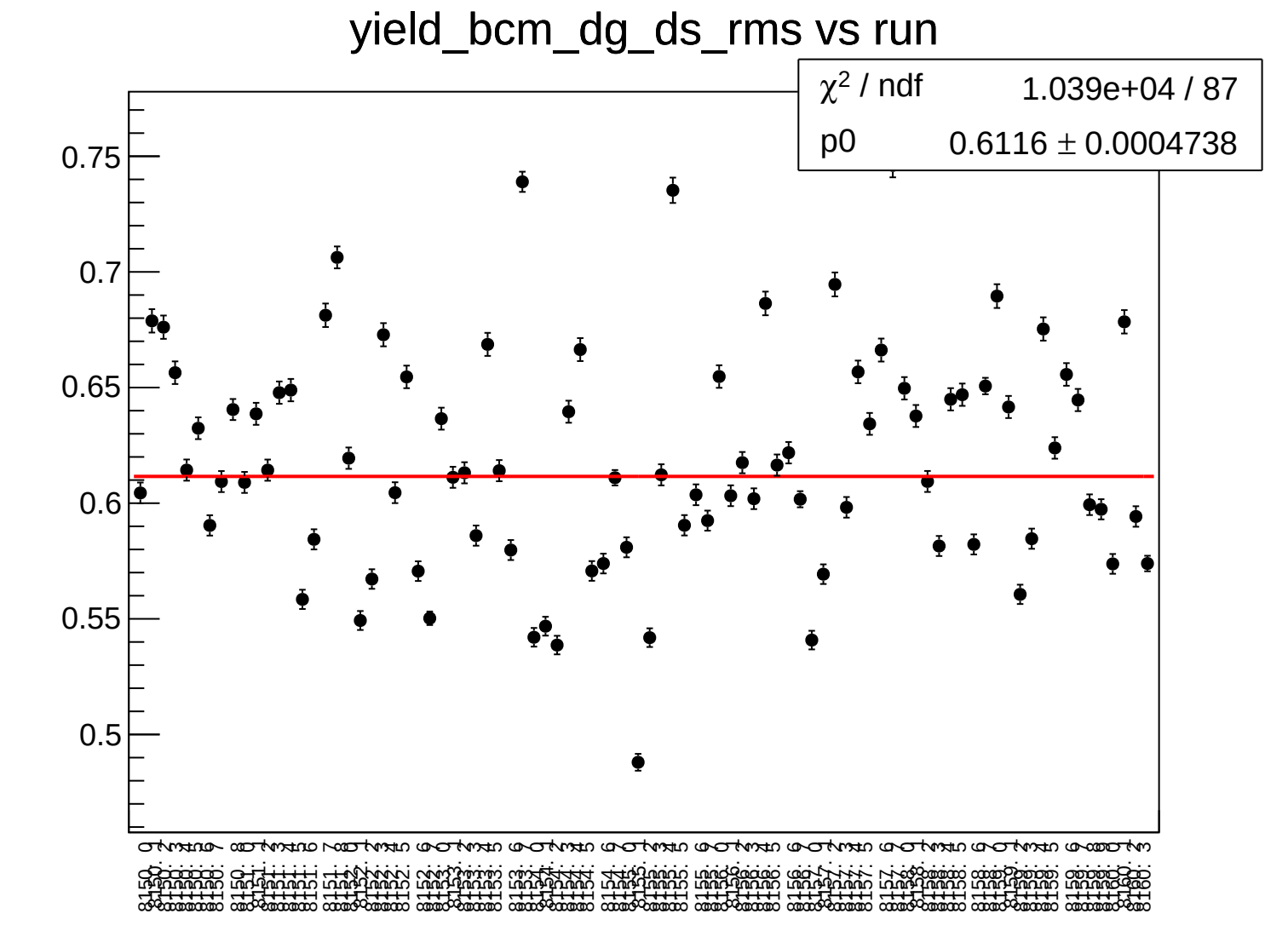

yield_bcm_dg_us_mean vs run
χ² / ndf 9.114e+05 / 87
p0 145.6 ± 0.0006643
147
146.5
146
145.5
145
144.5
pull
Entries 88
Mean −431.1
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

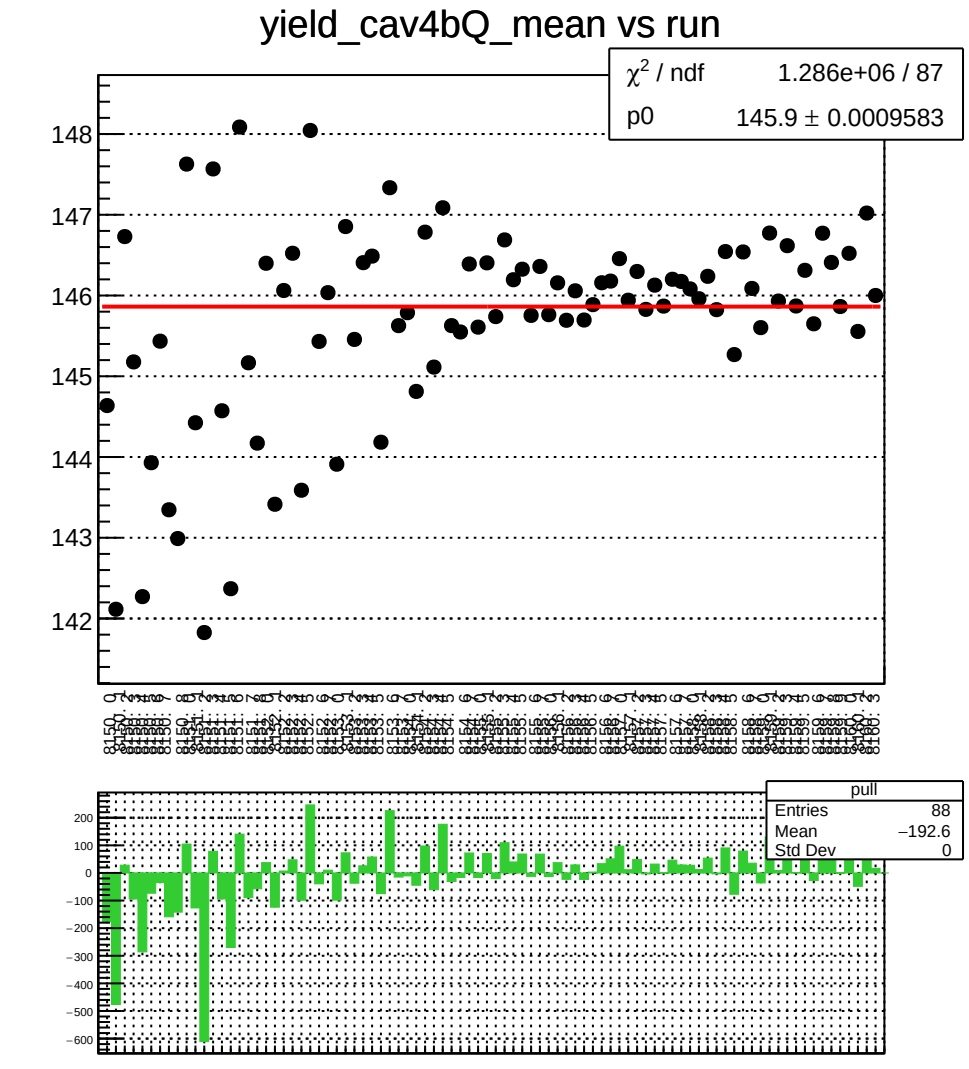

pull1D
Entries 88
Mean 3.015
Std Dev 2.93
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

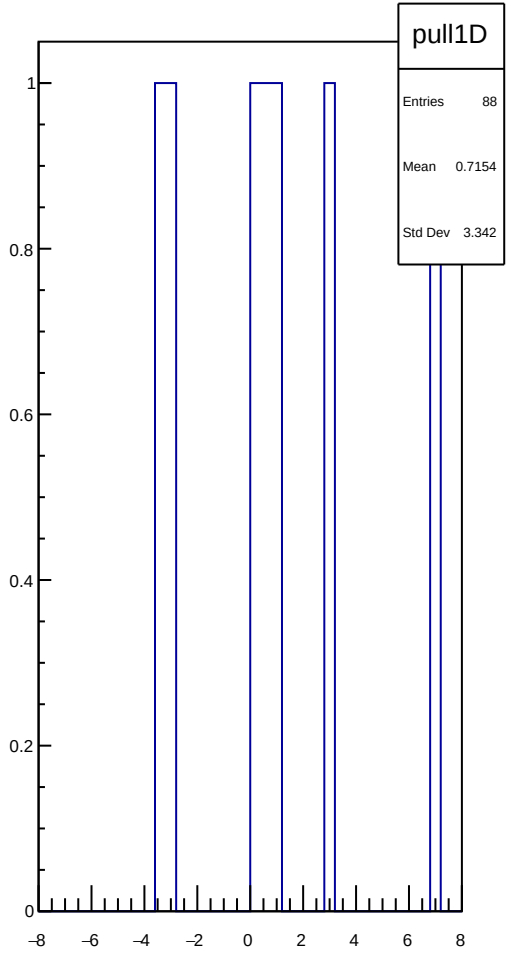

yield_bcm_dg_us_rms vs run
χ² / ndf 9265 / 87
p0 0.6065 ± 0.0004697
0.75
0.7
0.65
0.6
0.55
0.5

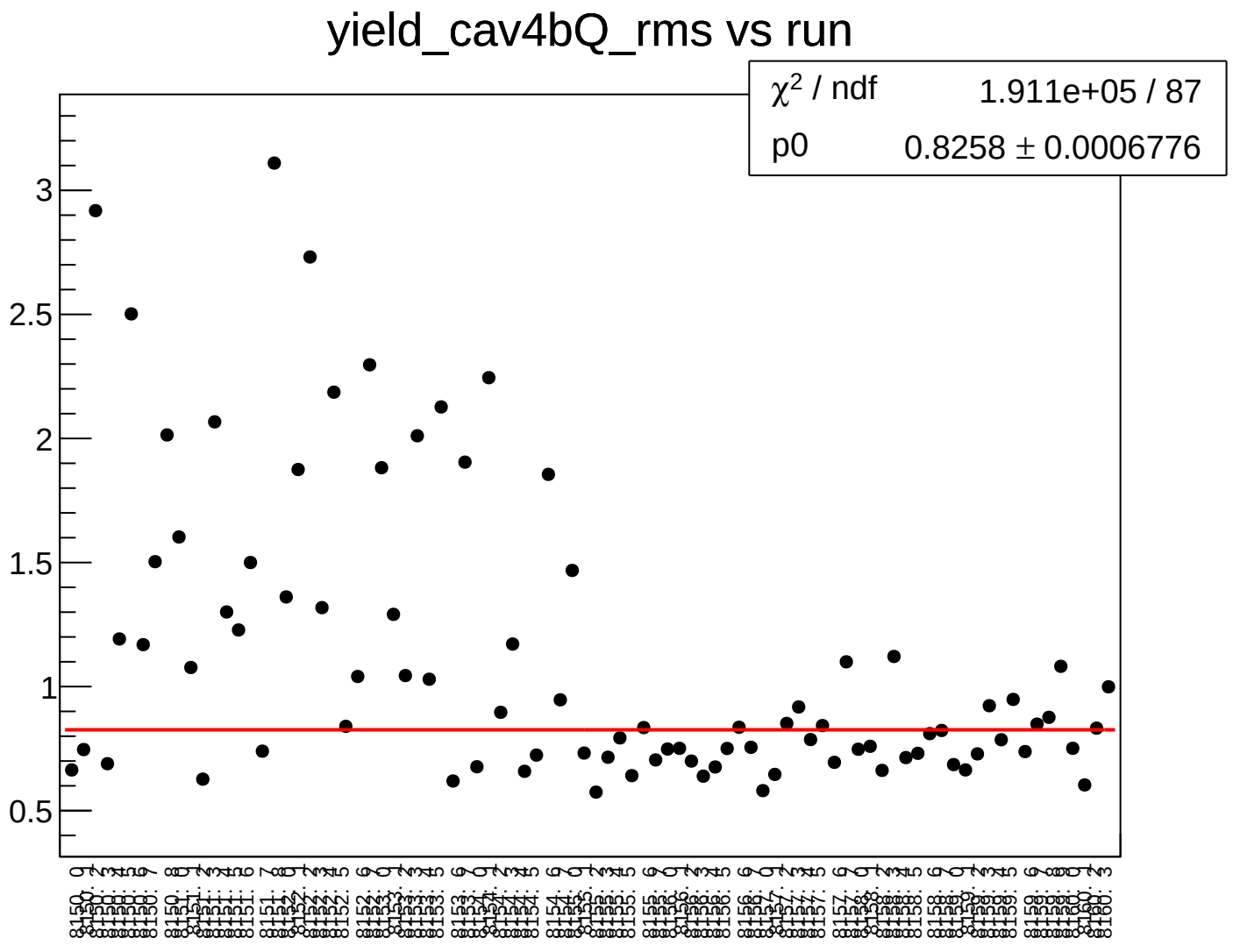

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.137e+06 / 87
p0 145.5 ± 0.0006701
147
146.5
146
145.5
145
144.5
pull
Entries 88
Mean −438.2
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

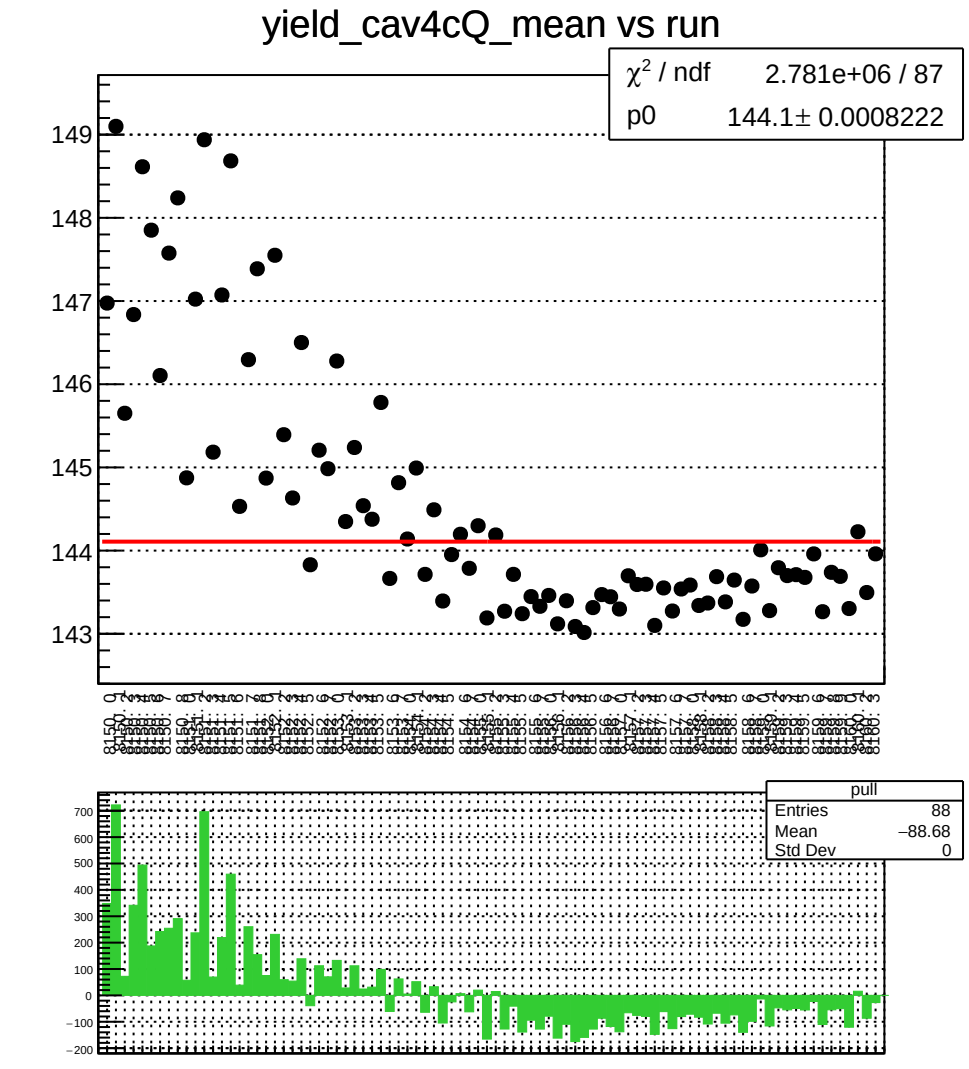

pull1D
Entries 88
Mean 1.785
Std Dev 3.737
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

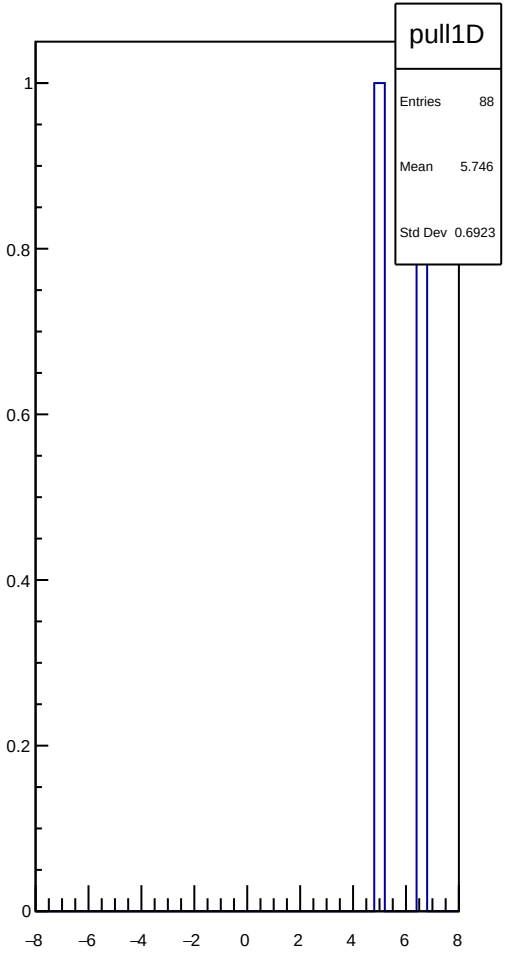

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.039e+04 / 87
p0 0.6116 ± 0.0004738
0.75
0.7
0.65
0.6
0.55
0.5


yield_cav4bQ_mean vs run
χ² / ndf 1.286e+06 / 87
p0 145.9 ± 0.0009583
148
147
146
145
144
143
142
pull
Entries 88
Mean −192.6
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600

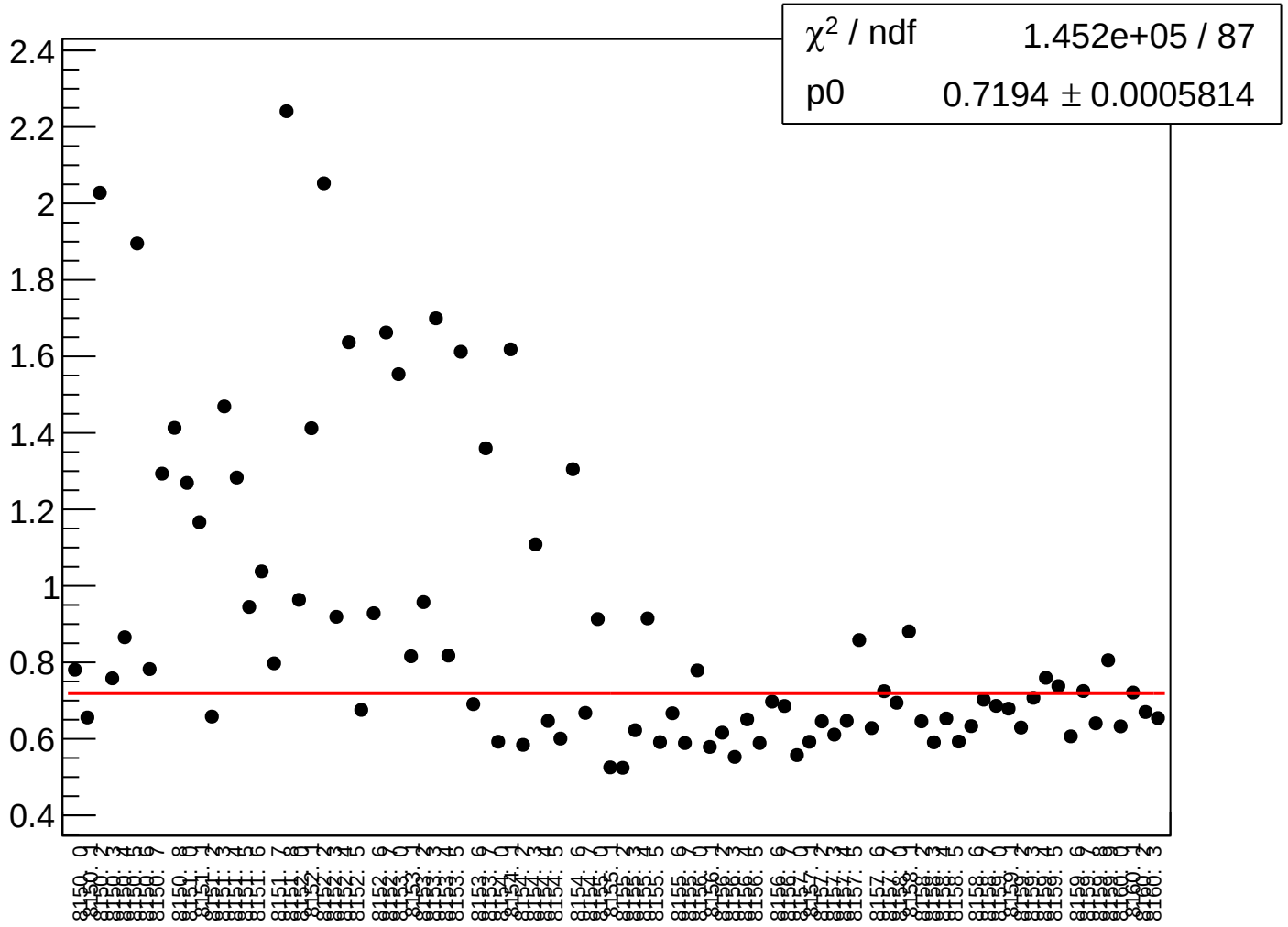

pull1D
Entries 88
Mean 0.7154
Std Dev 3.342
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

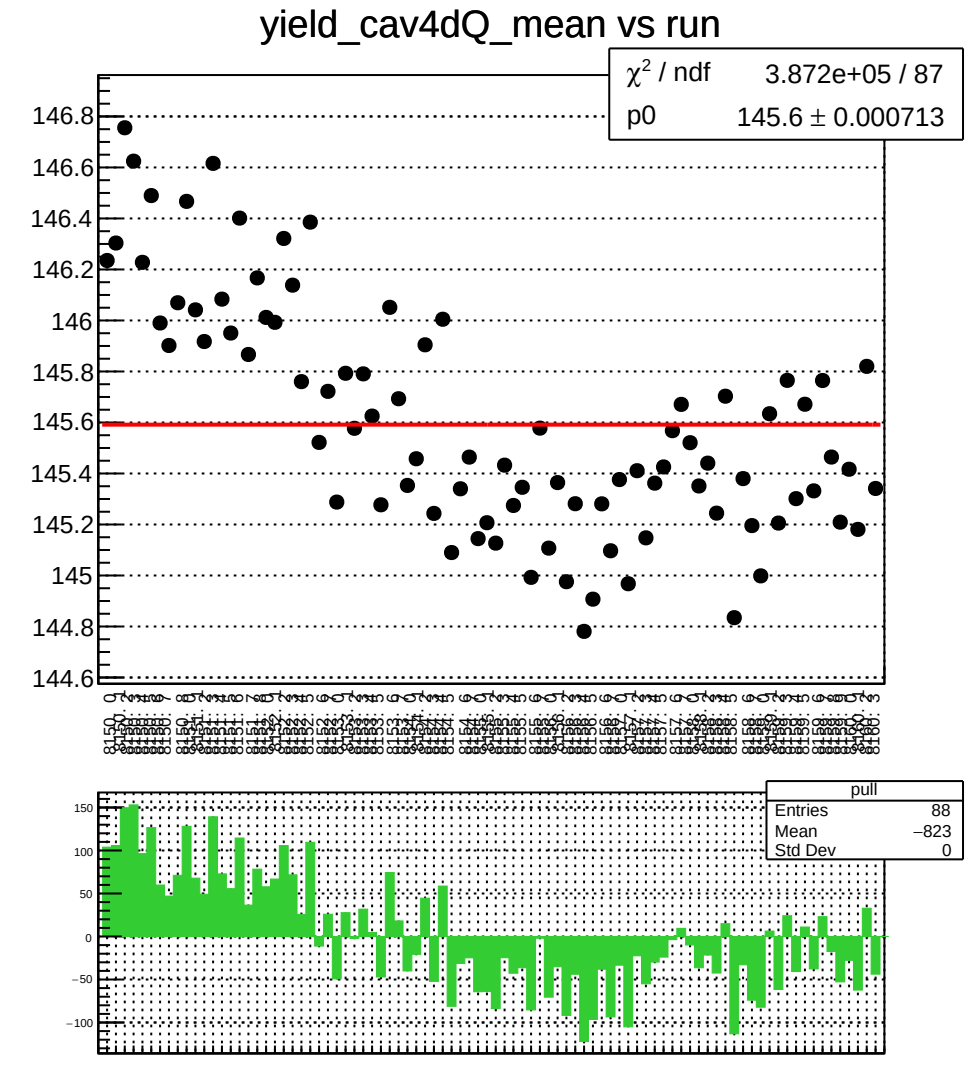

yield_cav4bQ_rms vs run
χ² / ndf 1.911e+05 / 87
p0 0.8258 ± 0.0006776
3
2.5
2
1.5
1
0.5

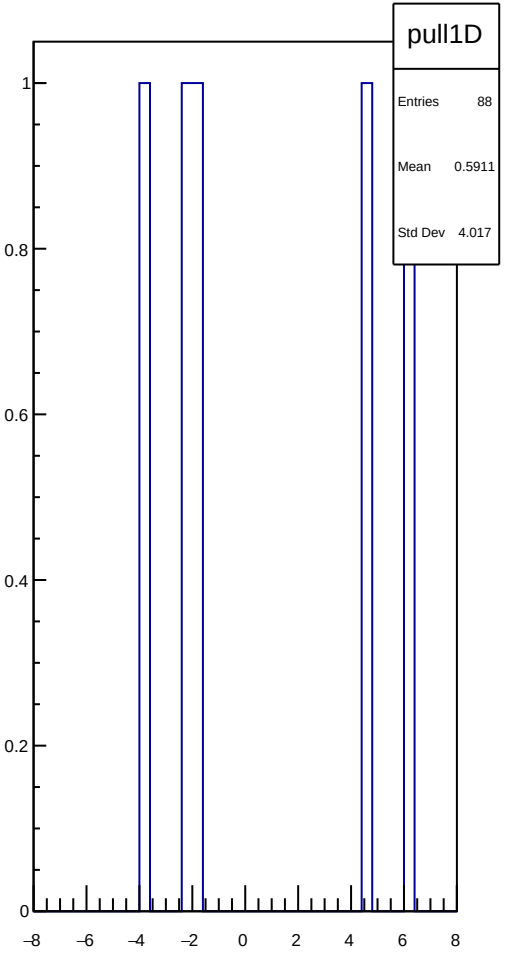

yield_cav4cQ_mean vs run
χ² / ndf 2.781e+06 / 87
p0 144.1± 0.0008222
149
148
147
146
145
144
143
pull
Entries 88
Mean −88.68
Std Dev 0
700
600
500
400
300
200
100
0
−100
−200

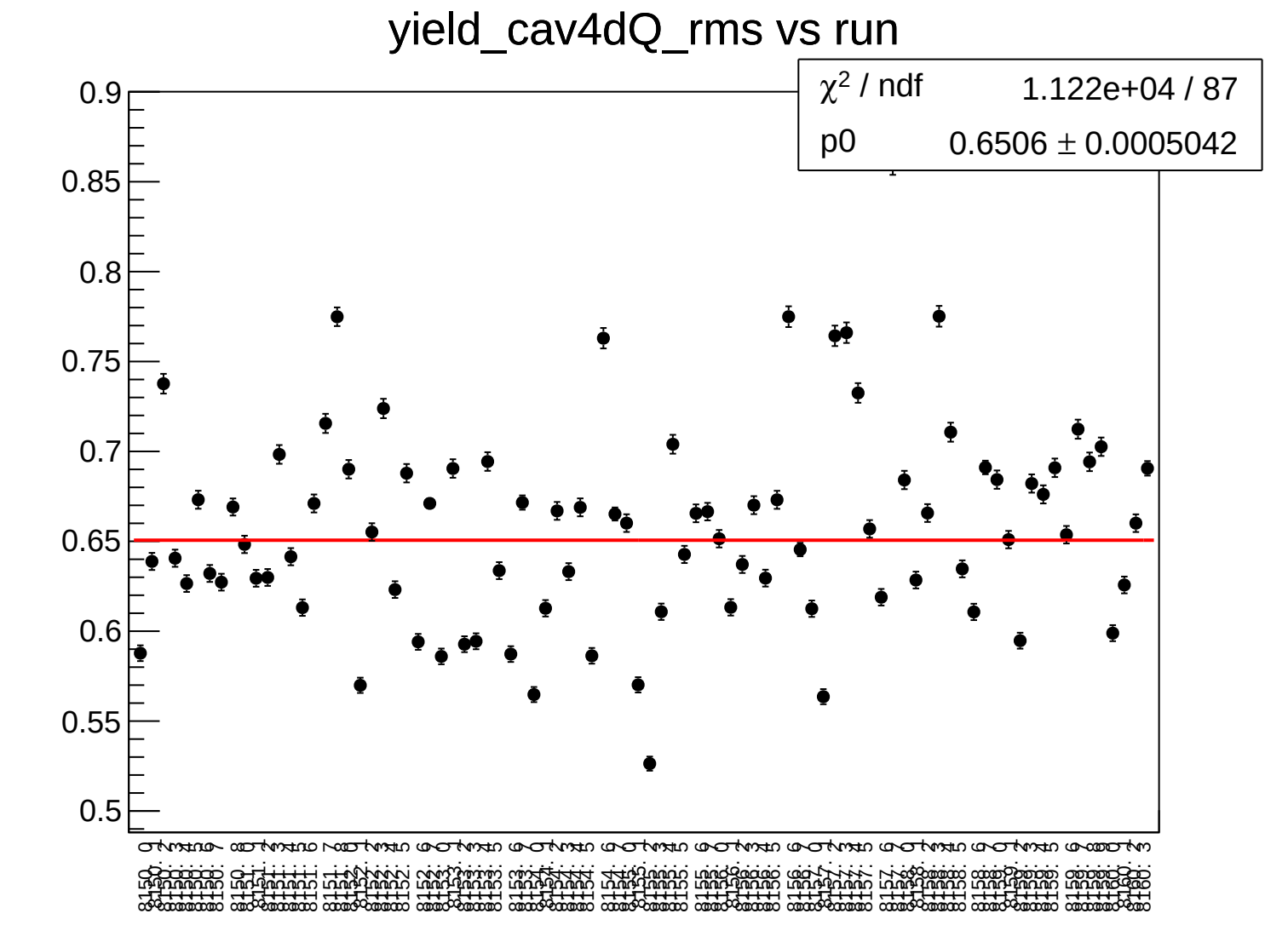

pull1D
Entries 88
Mean 5.746
Std Dev 0.6923
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

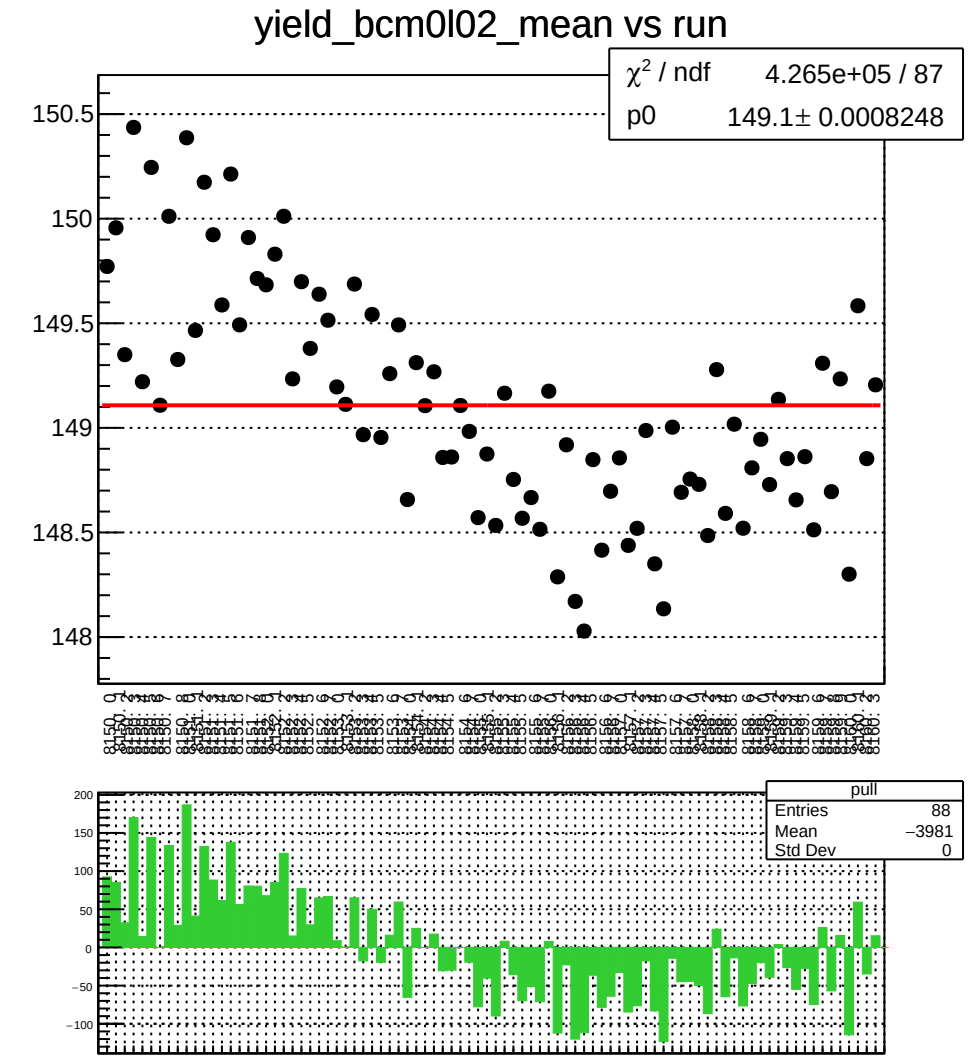
yield_cav4cQ_rms vs run

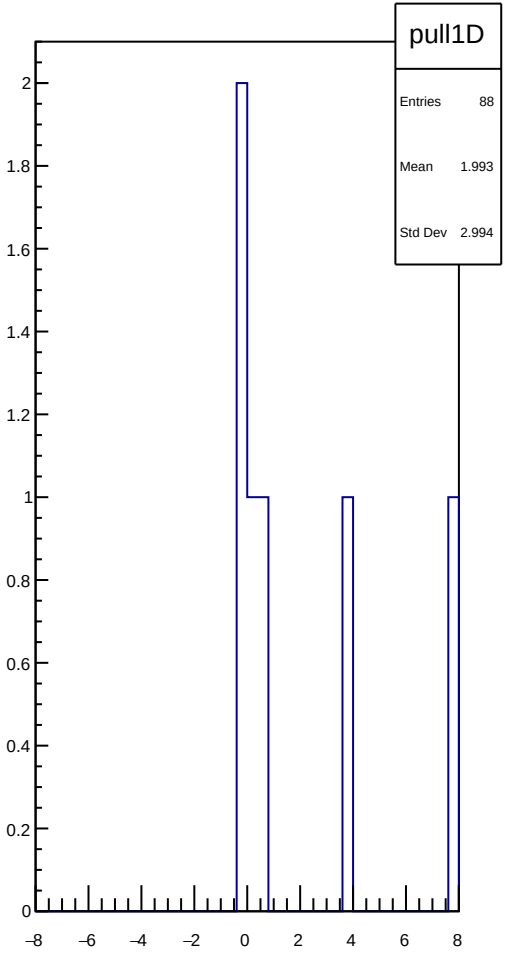


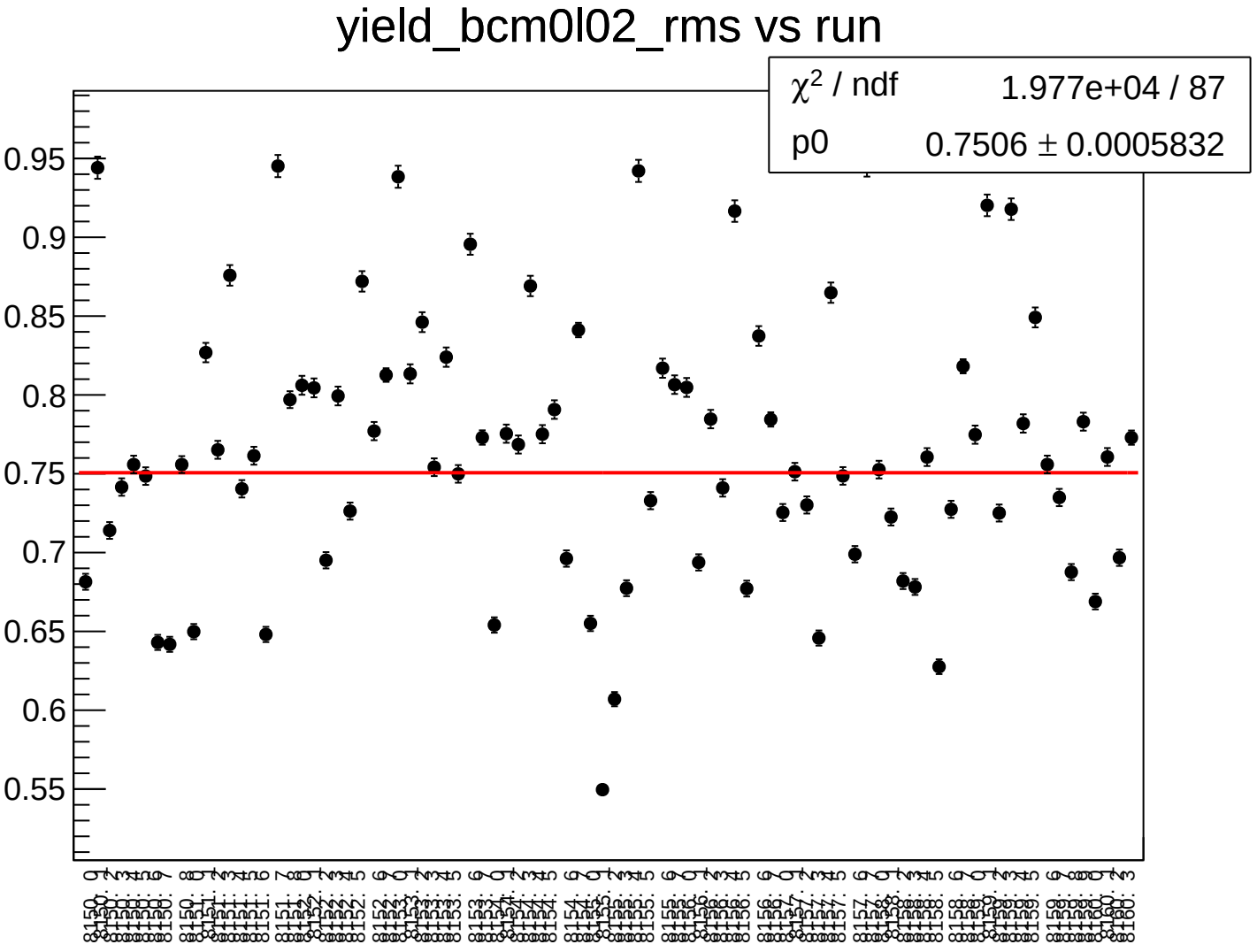

yield_cav4dQ_mean vs run
χ² / ndf 3.872e+05 / 87
p0 145.6 ± 0.000713
pull
Entries 88
Mean −823
Std Dev 0

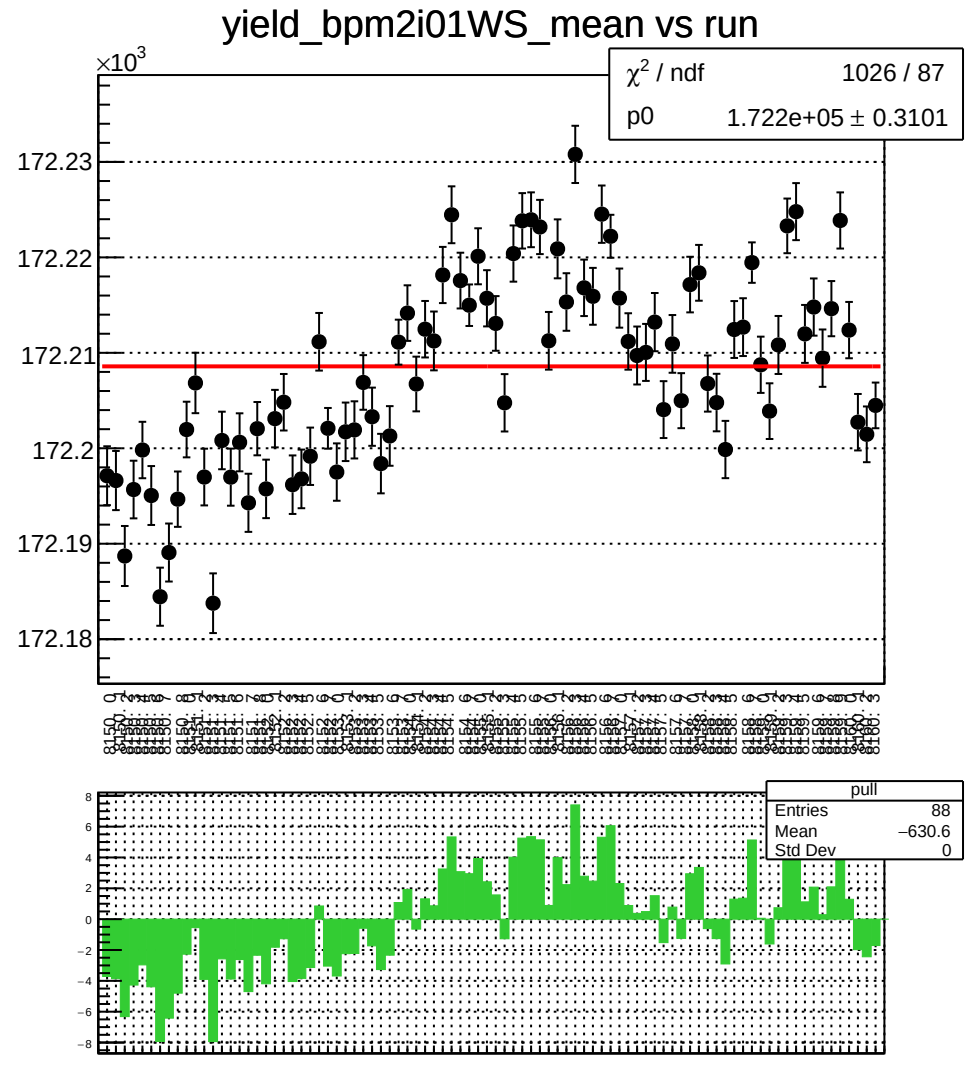

pull1D
Entries 88
Mean 0.5911
Std Dev 4.017

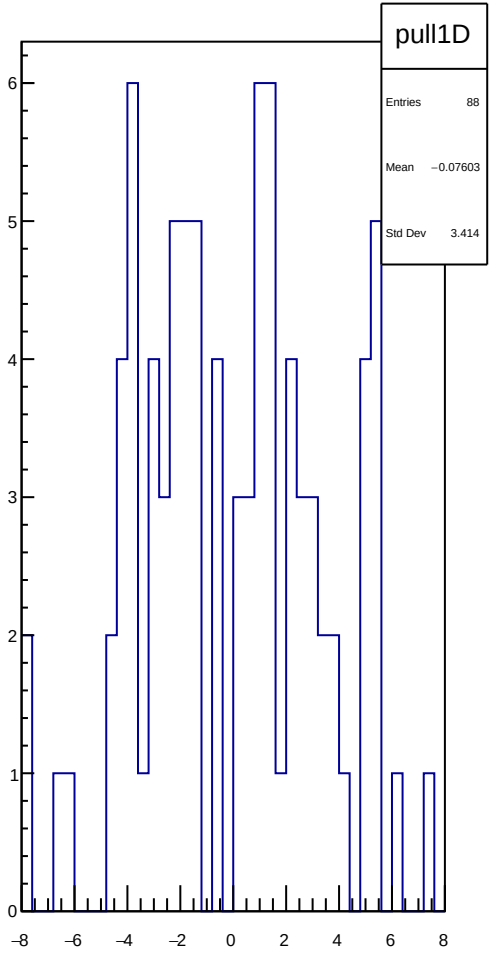

yield_cav4dQ_rms vs run
χ² / ndf 1.122e+04 / 87
p0 0.6506 ± 0.0005042
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55
0.5

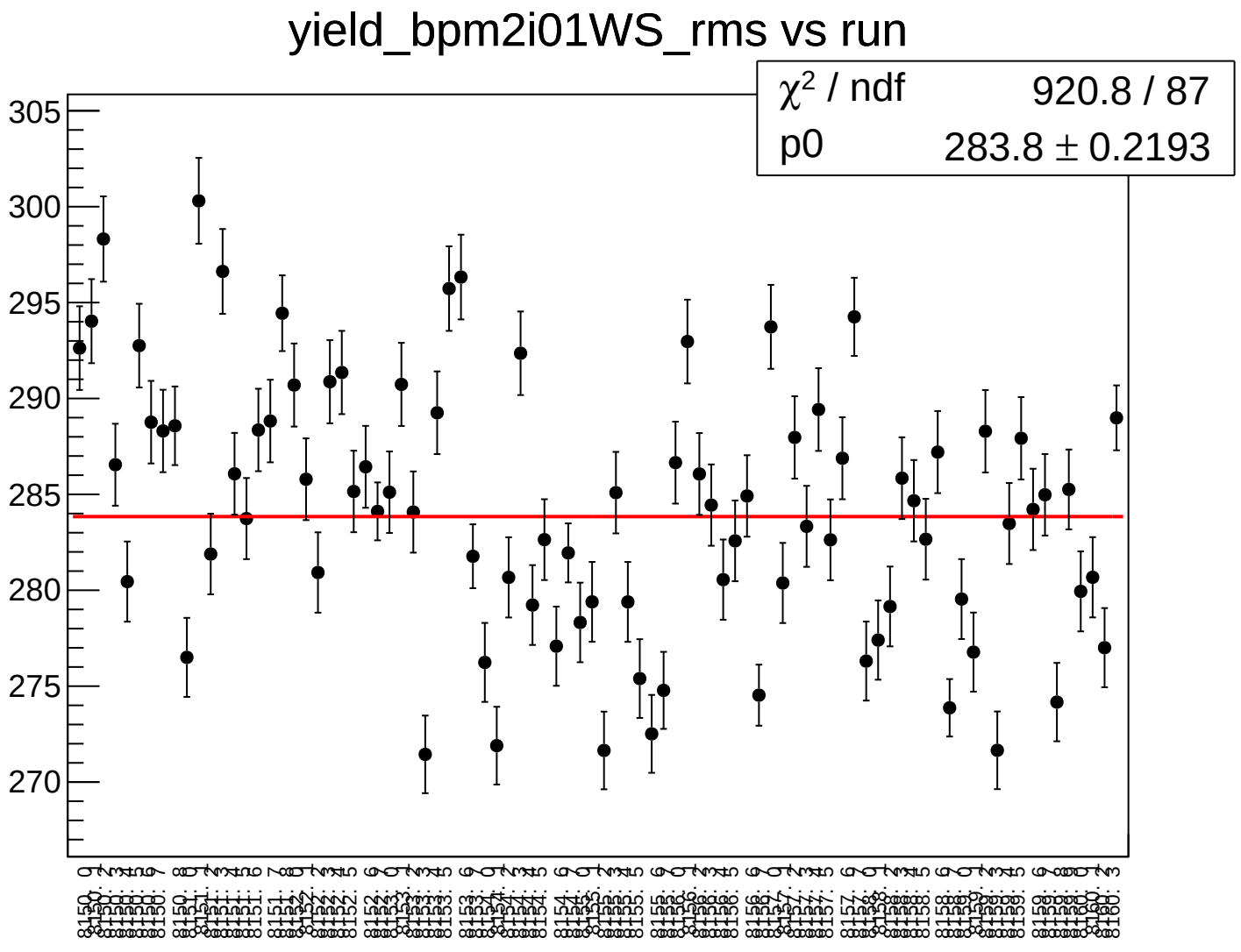

yield_bcm0l02_mean vs run
χ² / ndf 4.265e+05 / 87
p0 149.1± 0.0008248
150.5
150
149.5
149
148.5
148
pull
Entries 88
Mean −3981
Std Dev 0
200
150
100
50
0
−50
−100

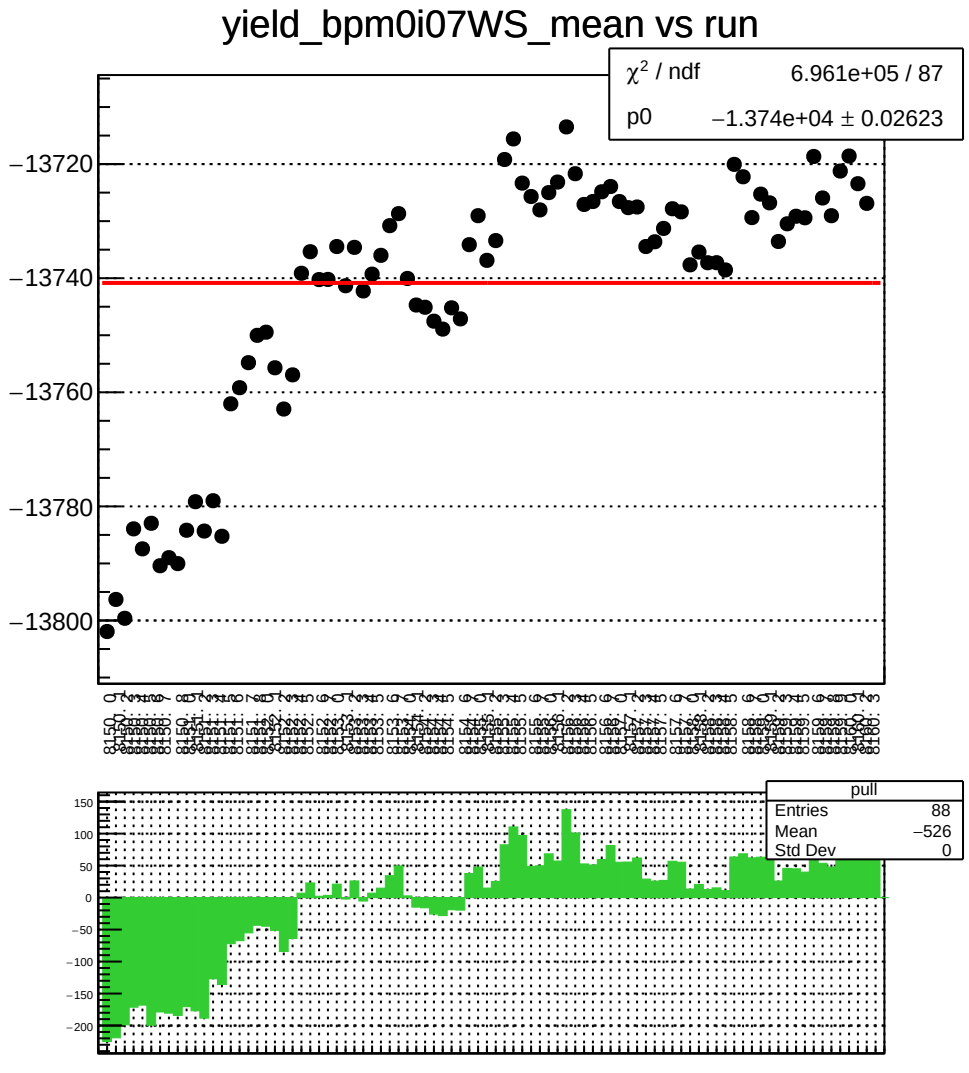

pull1D
Entries 88
Mean 1.993
Std Dev 2.994
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

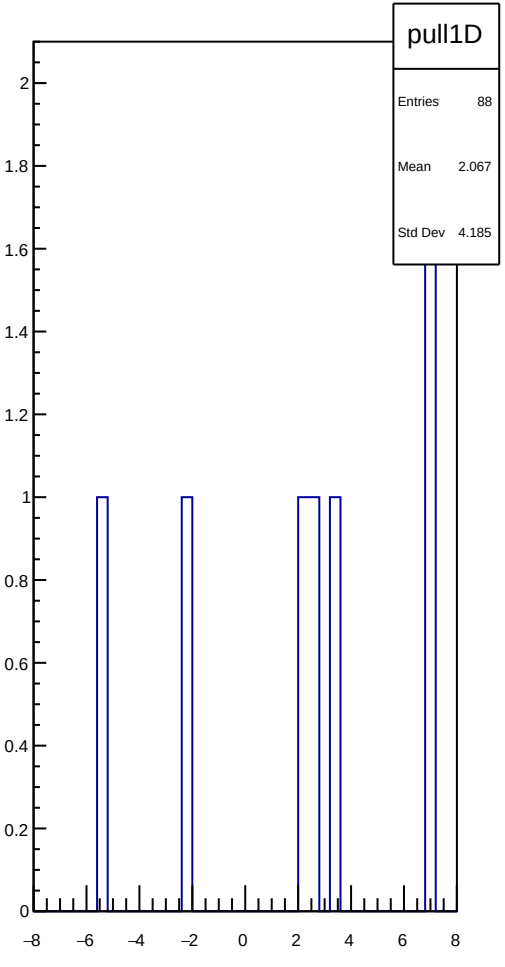

yield_bcm0l02_rms vs run
χ² / ndf 1.977e+04 / 87
p0 0.7506 ± 0.0005832
0.95
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55

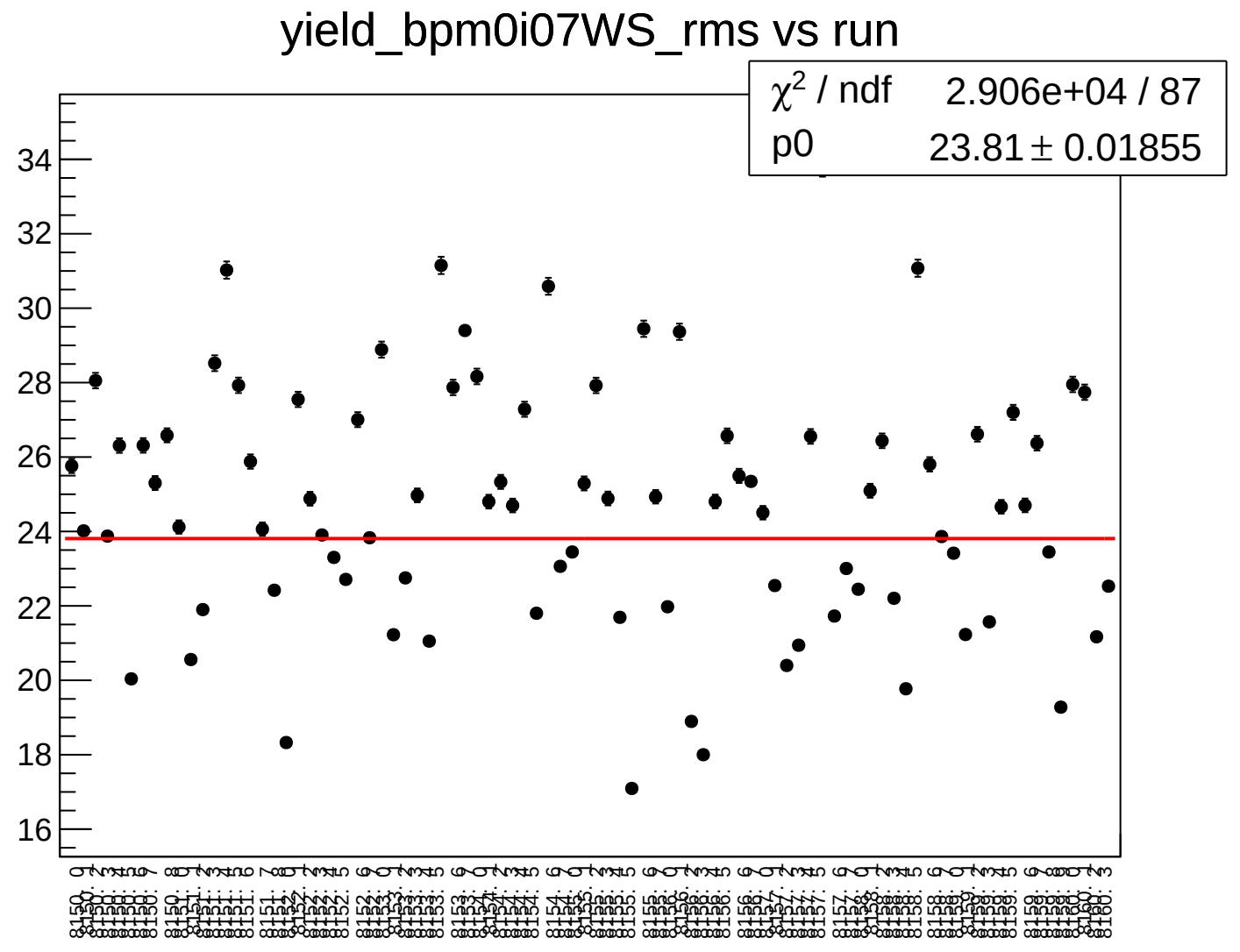

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1026 / 87
p0 1.722e+05 ± 0.3101
172.23
172.22
172.21
172.2
172.19
172.18
pull
Entries 88
Mean −630.6
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

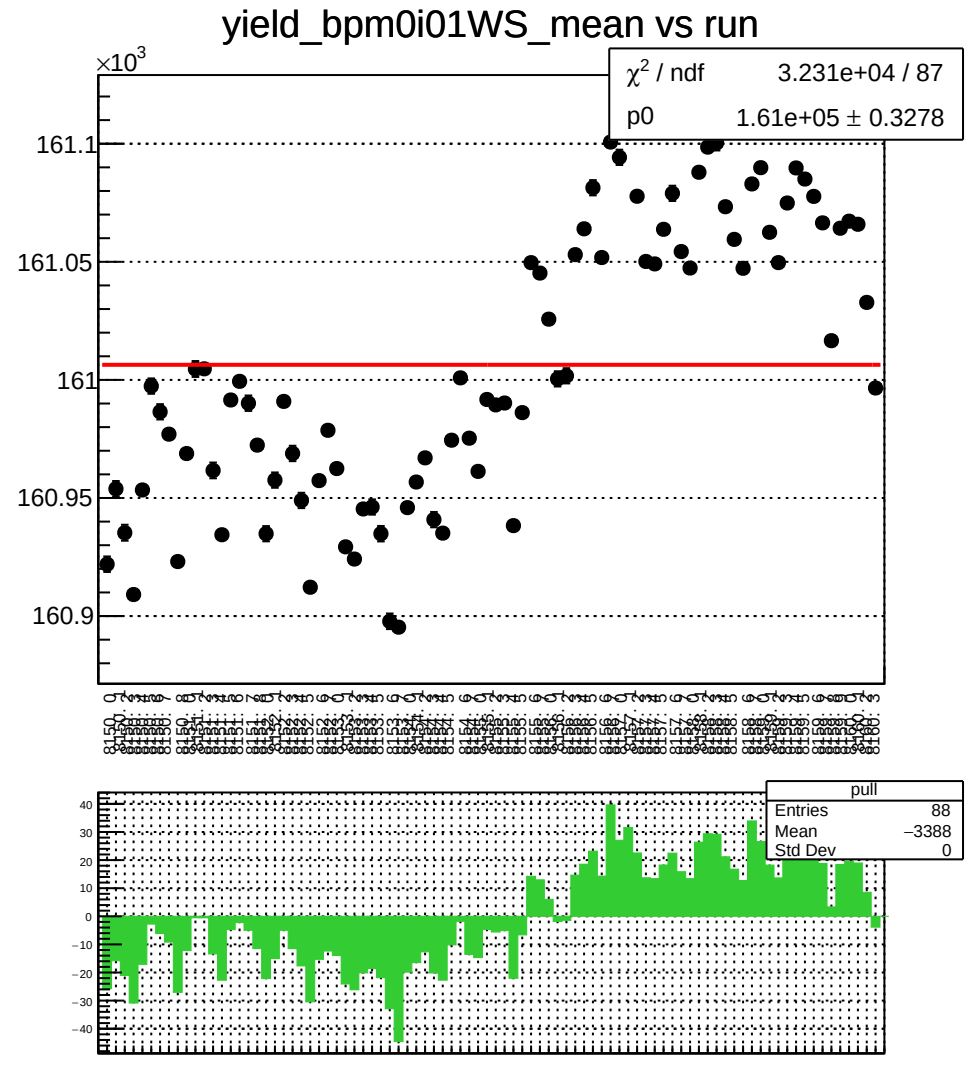

pull1D
Entries 88
Mean −0.07603
Std Dev 3.414
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

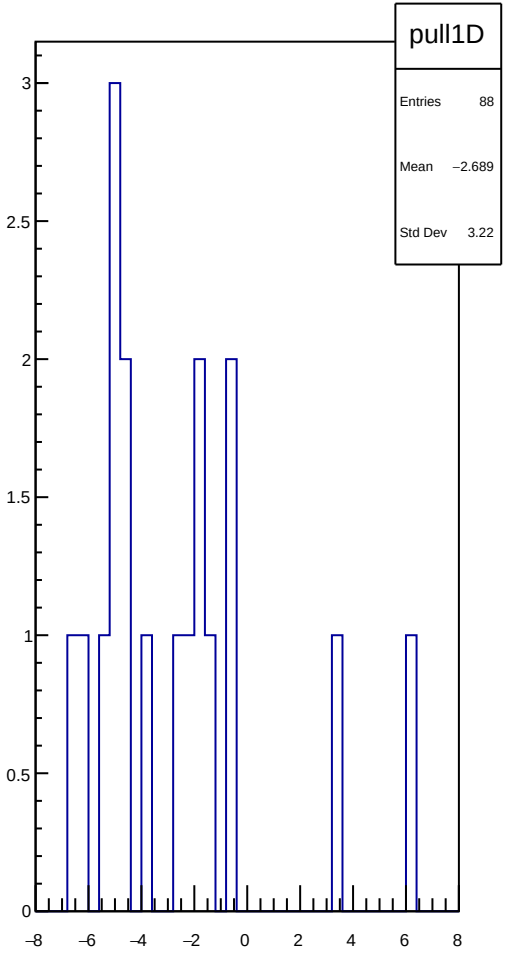

yield_bpm2i01WS_rms vs run
χ² / ndf 920.8 / 87
p0 283.8 ± 0.2193
305
300
295
290
285
280
275
270

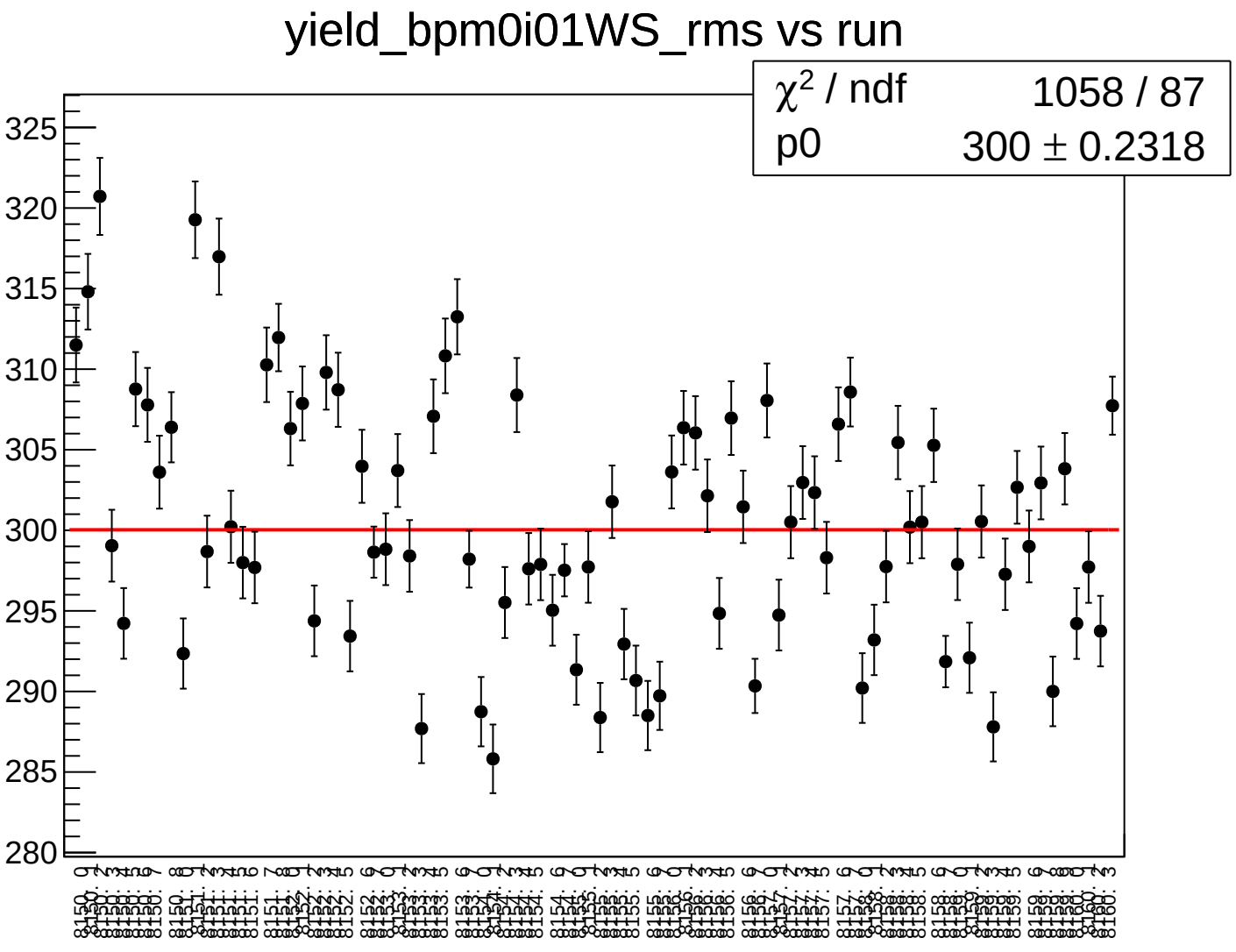

yield_bpm0i07WS_mean vs run
χ² / ndf 6.961e+05 / 87
p0 −1.374e+04 ± 0.02623
−13720
−13740
−13760
−13780
−13800
pull
Entries 88
Mean −526
Std Dev 0
150
100
50
0
−50
−100
−150
−200

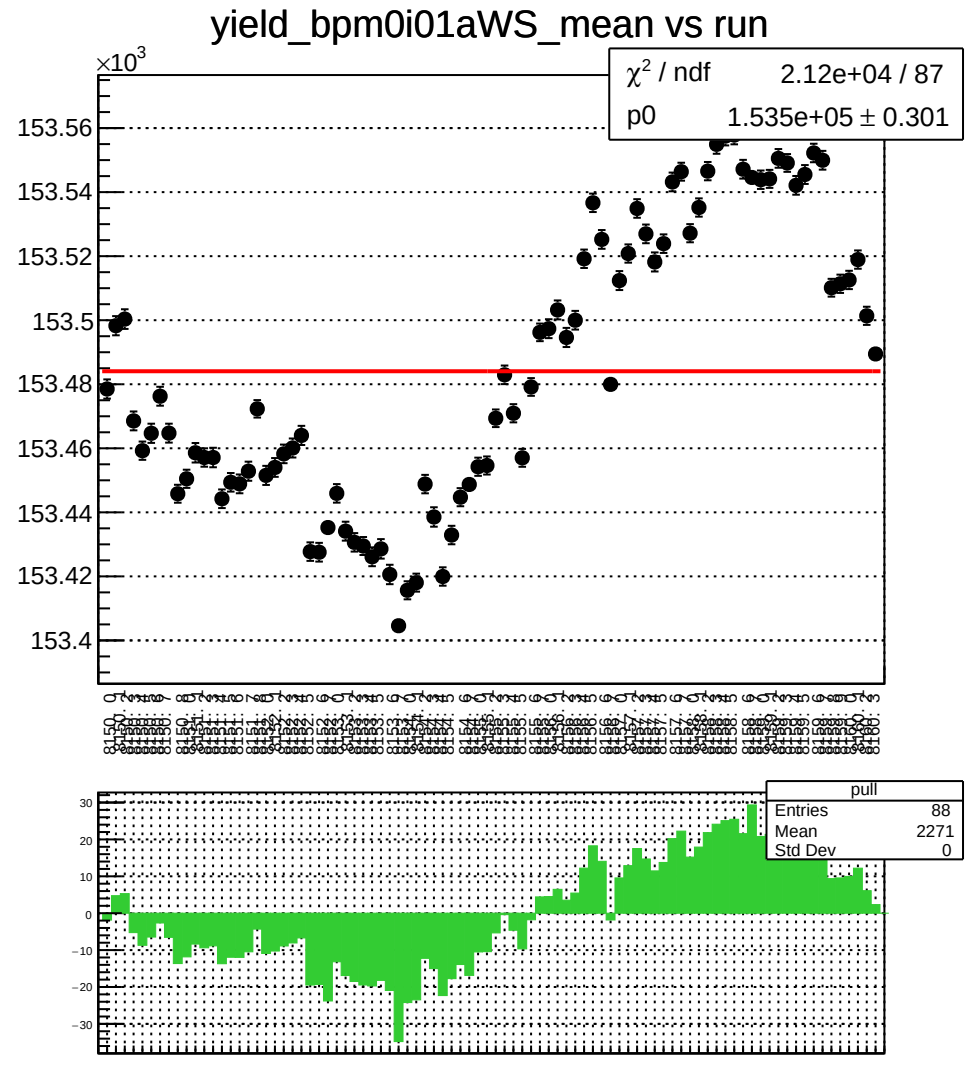

pull1D
Entries 88
Mean 2.067
Std Dev 4.185
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

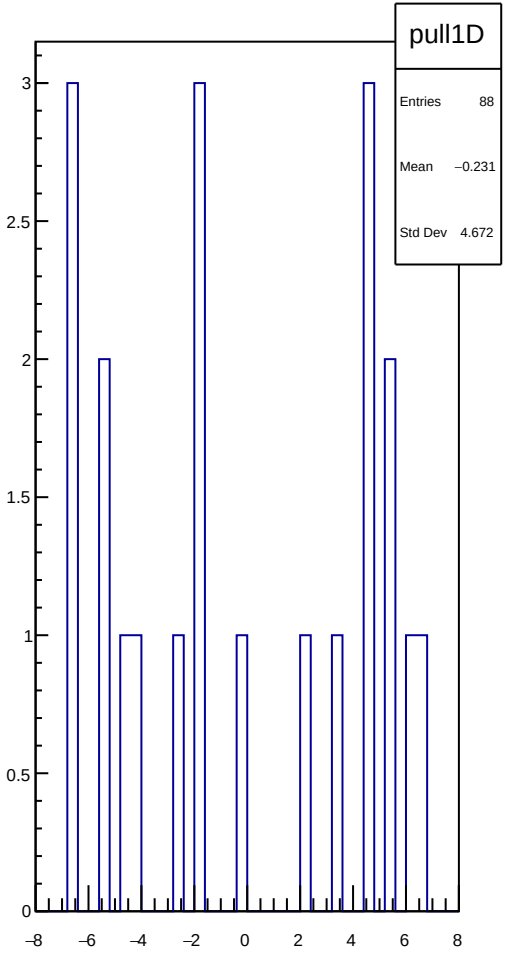

yield_bpm0i07WS_rms vs run
χ^2 / ndf 2.906e+04 / 87
p0 23.81 ± 0.01855
34
32
30
28
26
24
22
20
18
16

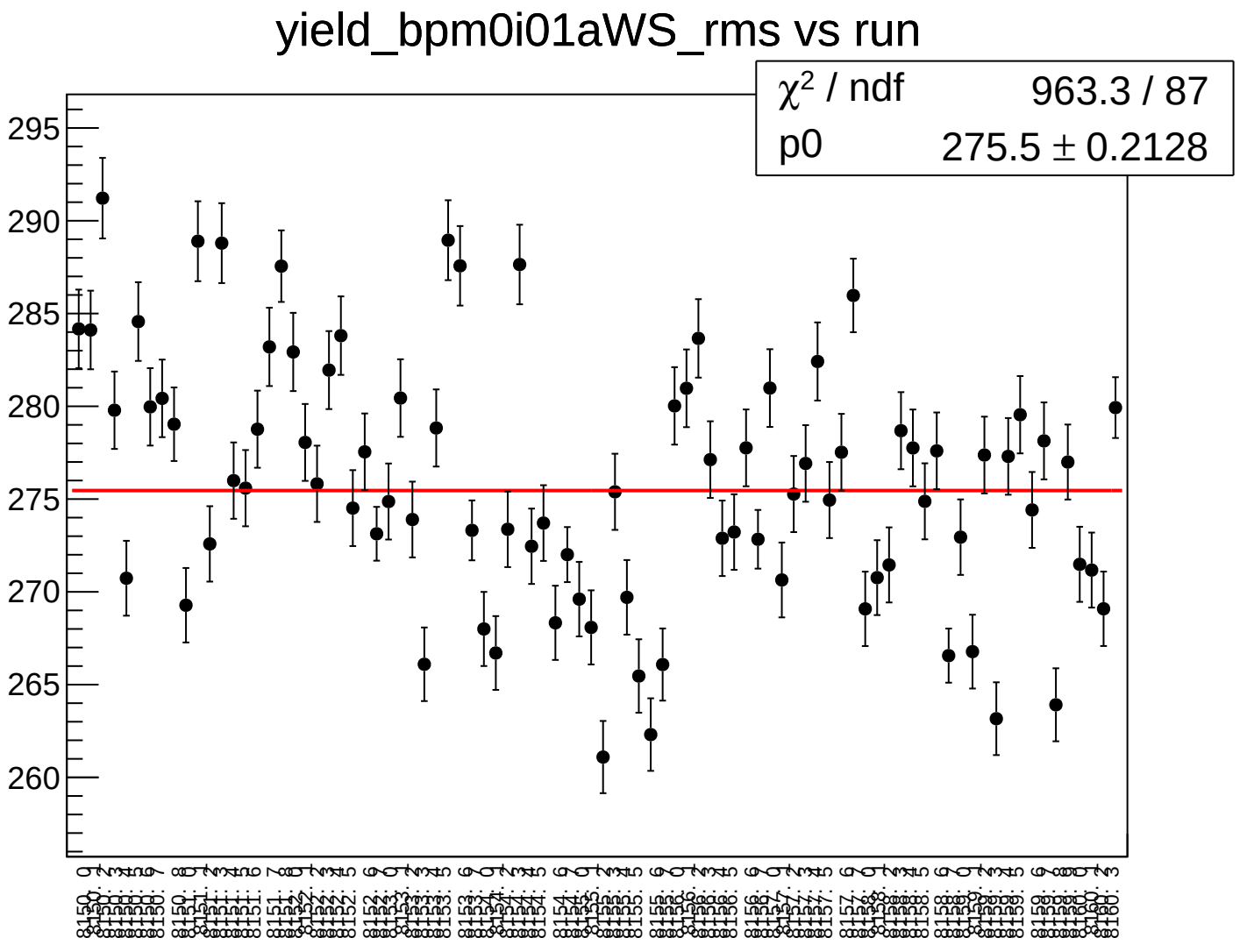

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 3.231e+04 / 87
p0 1.61e+05 ± 0.3278
161.1
161.05
161
160.95
160.9
pull
Entries 88
Mean −3388
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40

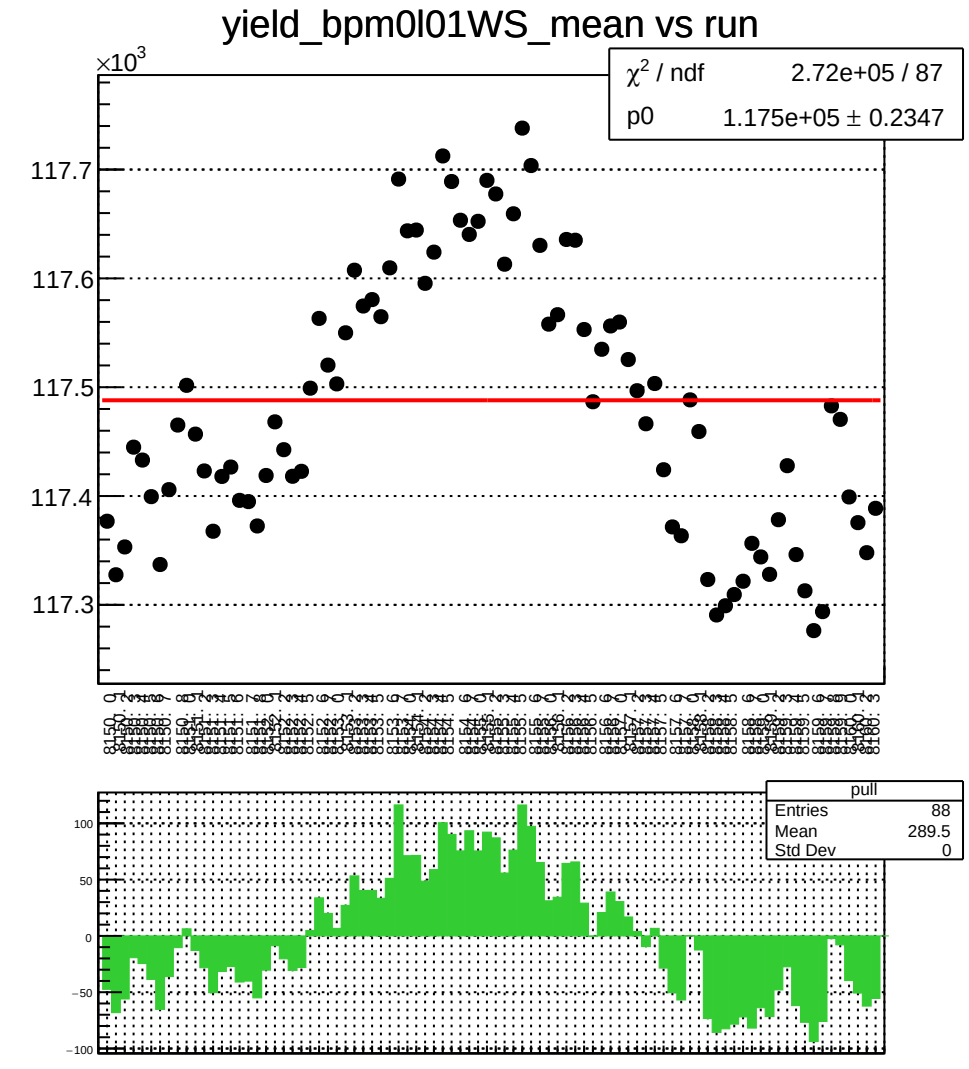

pull1D
Entries 88
Mean −2.689
Std Dev 3.22
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

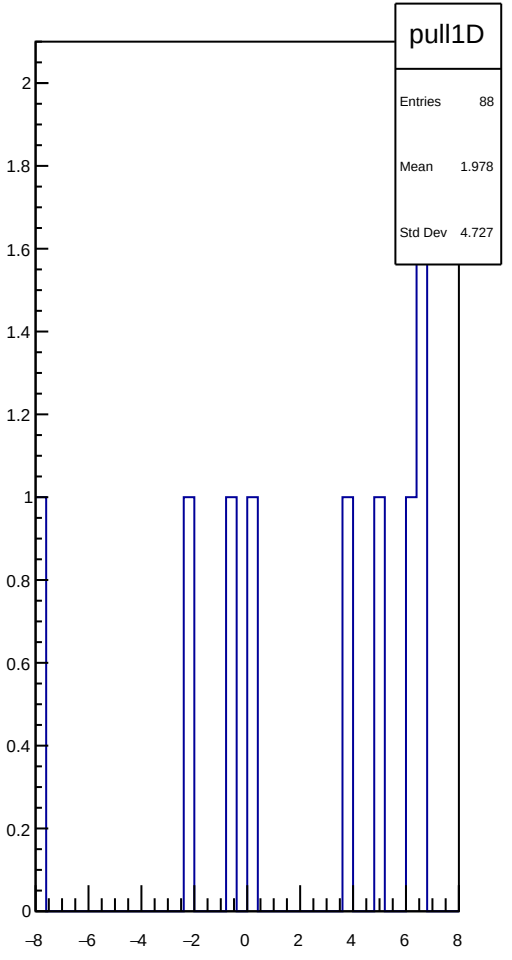

yield_bpm0i01WS_rms vs run
χ^2 / ndf 1058 / 87
p0 300 ± 0.2318
325
320
315
310
305
300
295
290
285
280

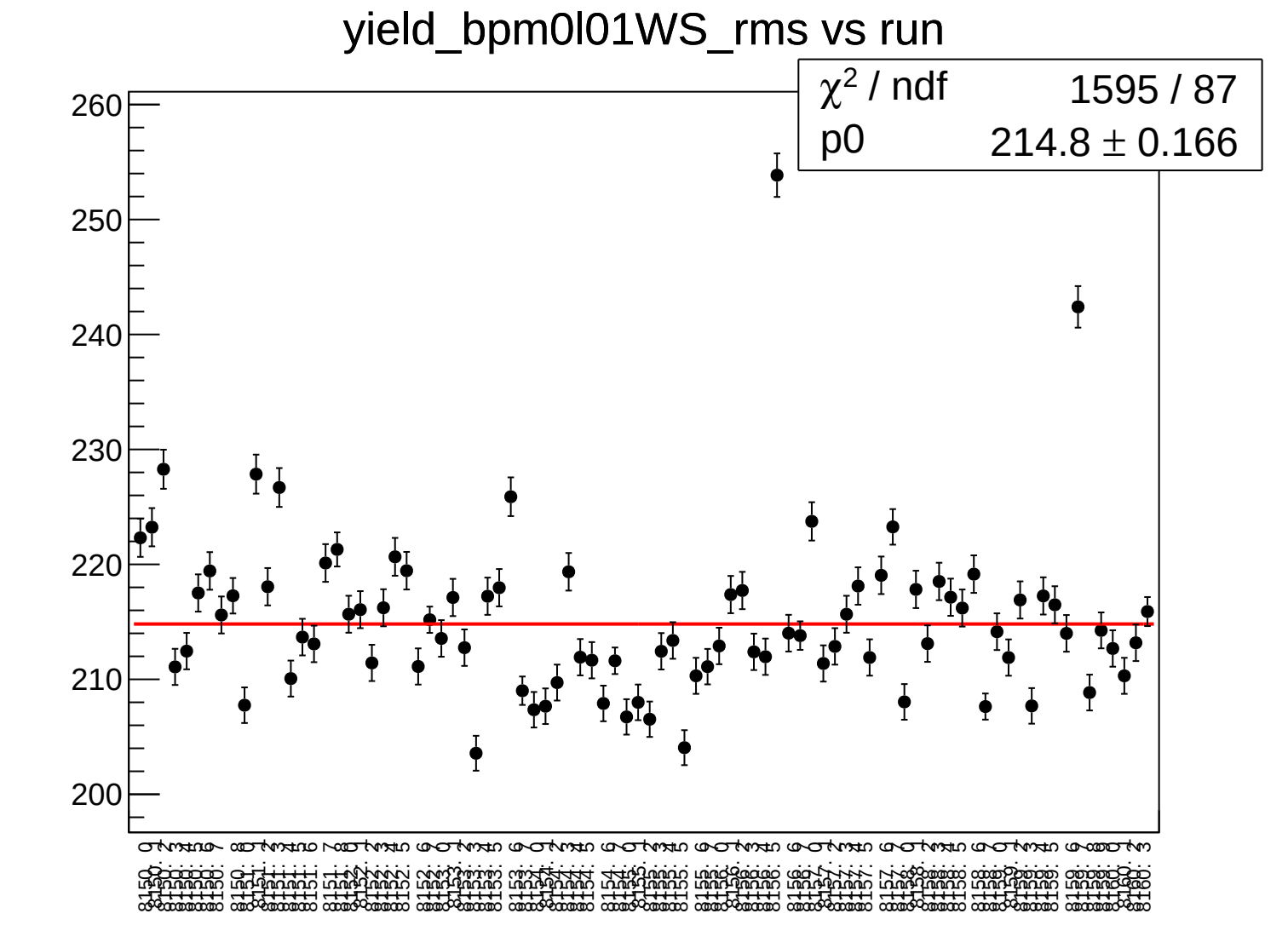

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 2.12e+04 / 87
p0 1.535e+05 ± 0.301
153.56
153.54
153.52
153.5
153.48
153.46
153.44
153.42
153.4
pull
Entries 88
Mean 2271
Std Dev 0
30
20
10
0
−10
−20
−30

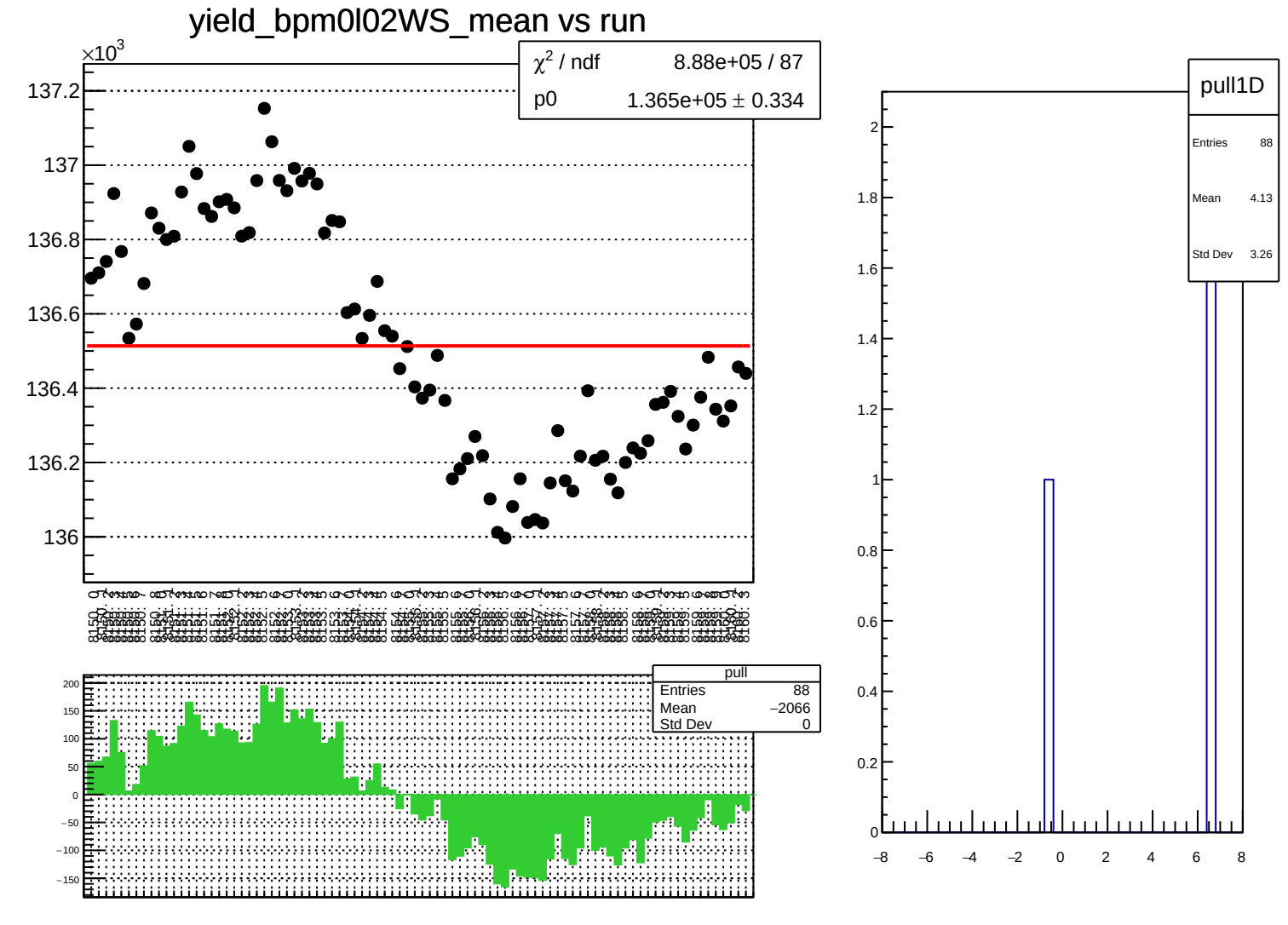

pull1D
Entries 88
Mean −0.231
Std Dev 4.672
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

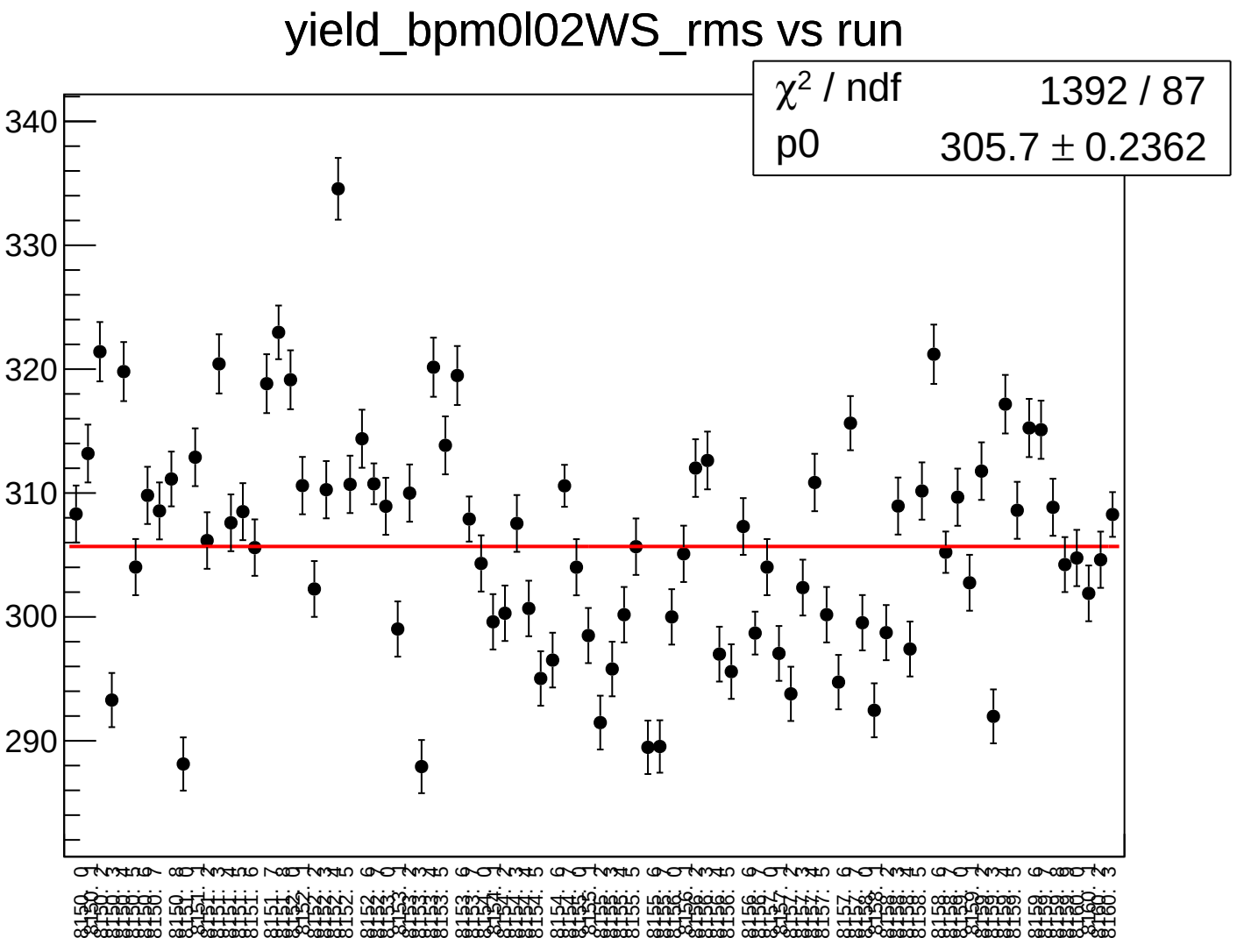

yield_bpm0i01aWS_rms vs run
χ² / ndf 963.3 / 87
p0 275.5 ± 0.2128
295
290
285
280
275
270
265
260

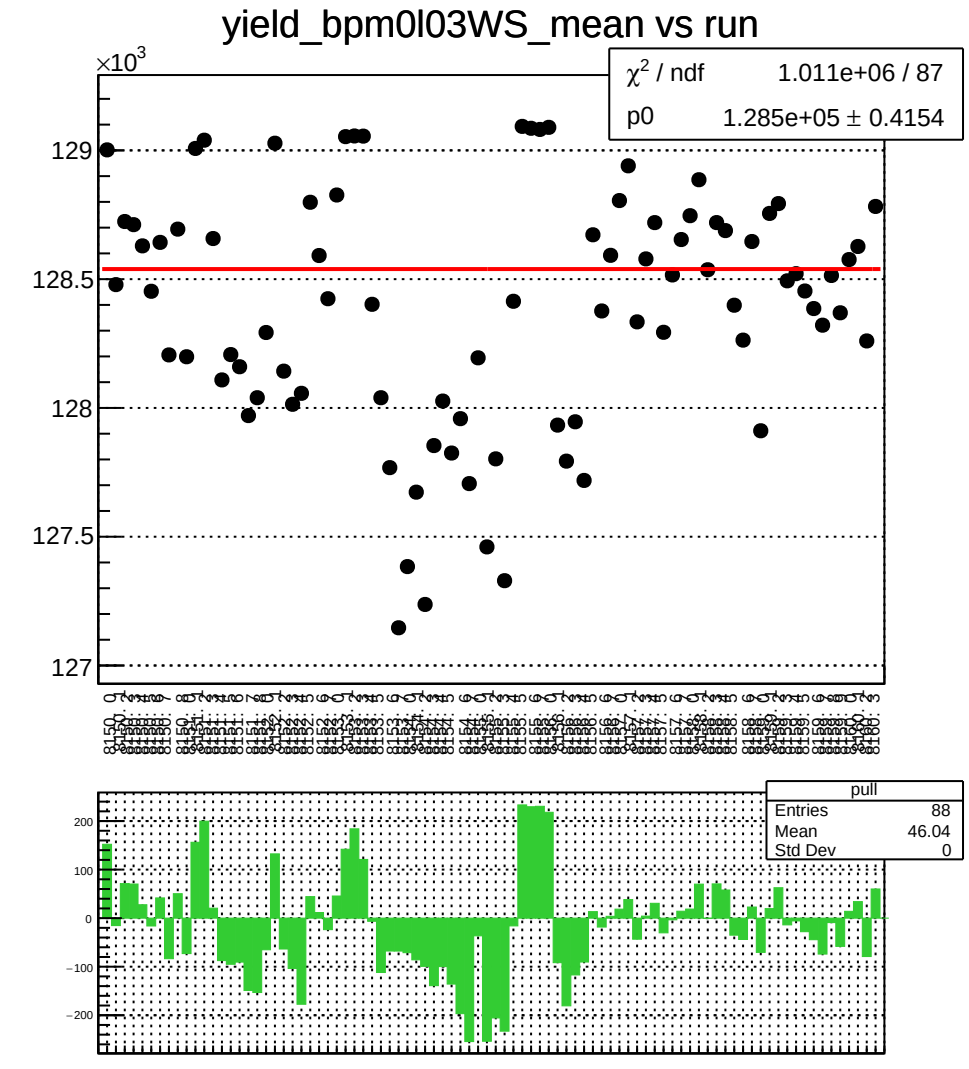

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.72e+05 / 87
p0 1.175e+05 ± 0.2347
117.7
117.6
117.5
117.4
117.3
pull
Entries 88
Mean 289.5
Std Dev 0
100
50
0
−50
−100

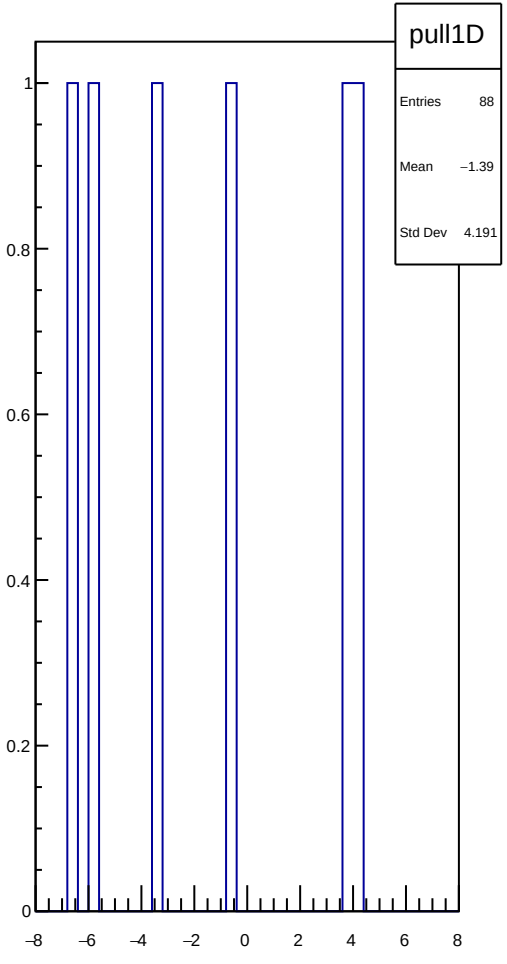

pull1D
Entries 88
Mean 1.978
Std Dev 4.727
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

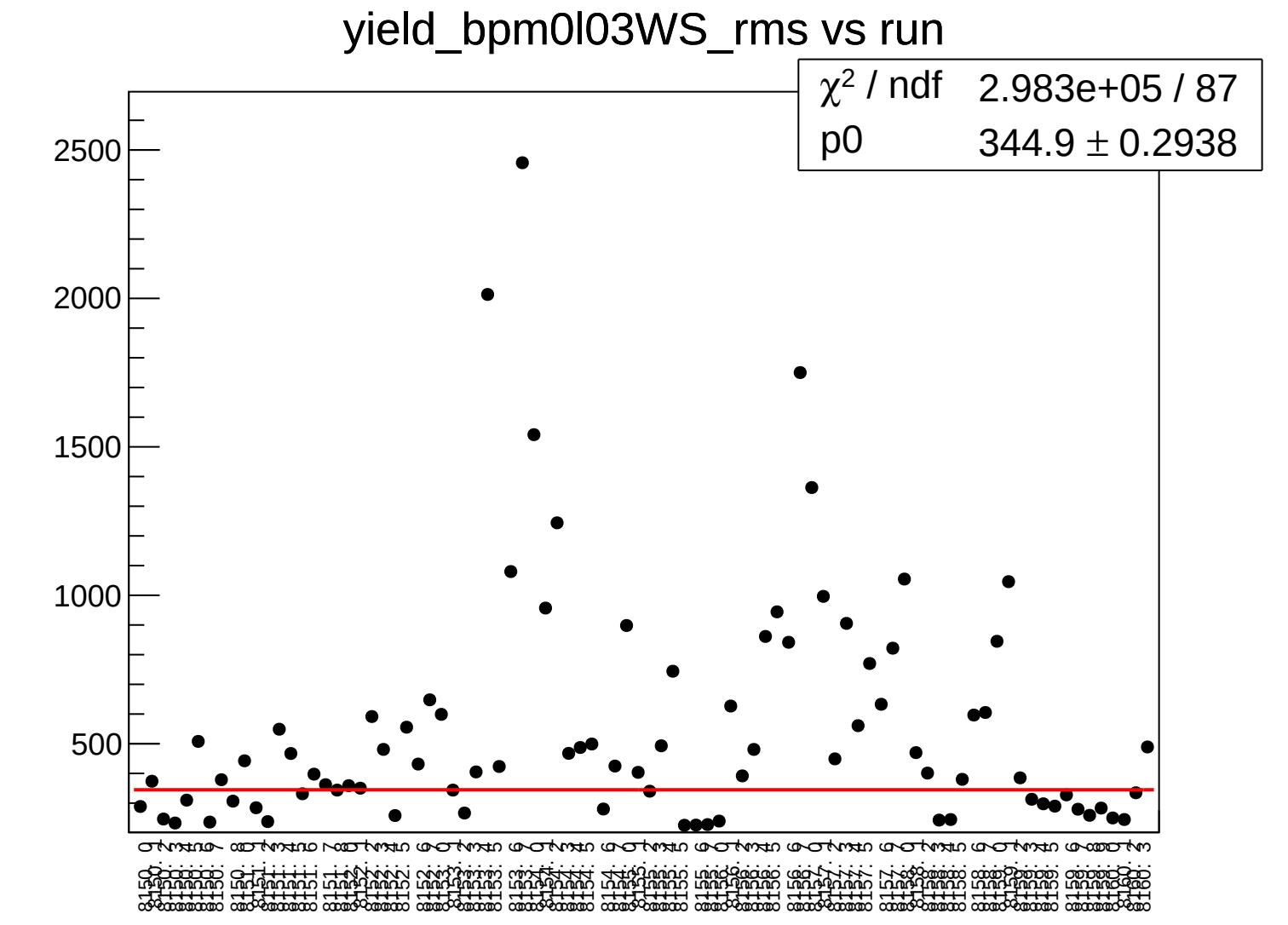

yield_bpm0l01WS_rms vs run
χ² / ndf 1595 / 87
p0 214.8 ± 0.166
260
250
240
230
220
210
200

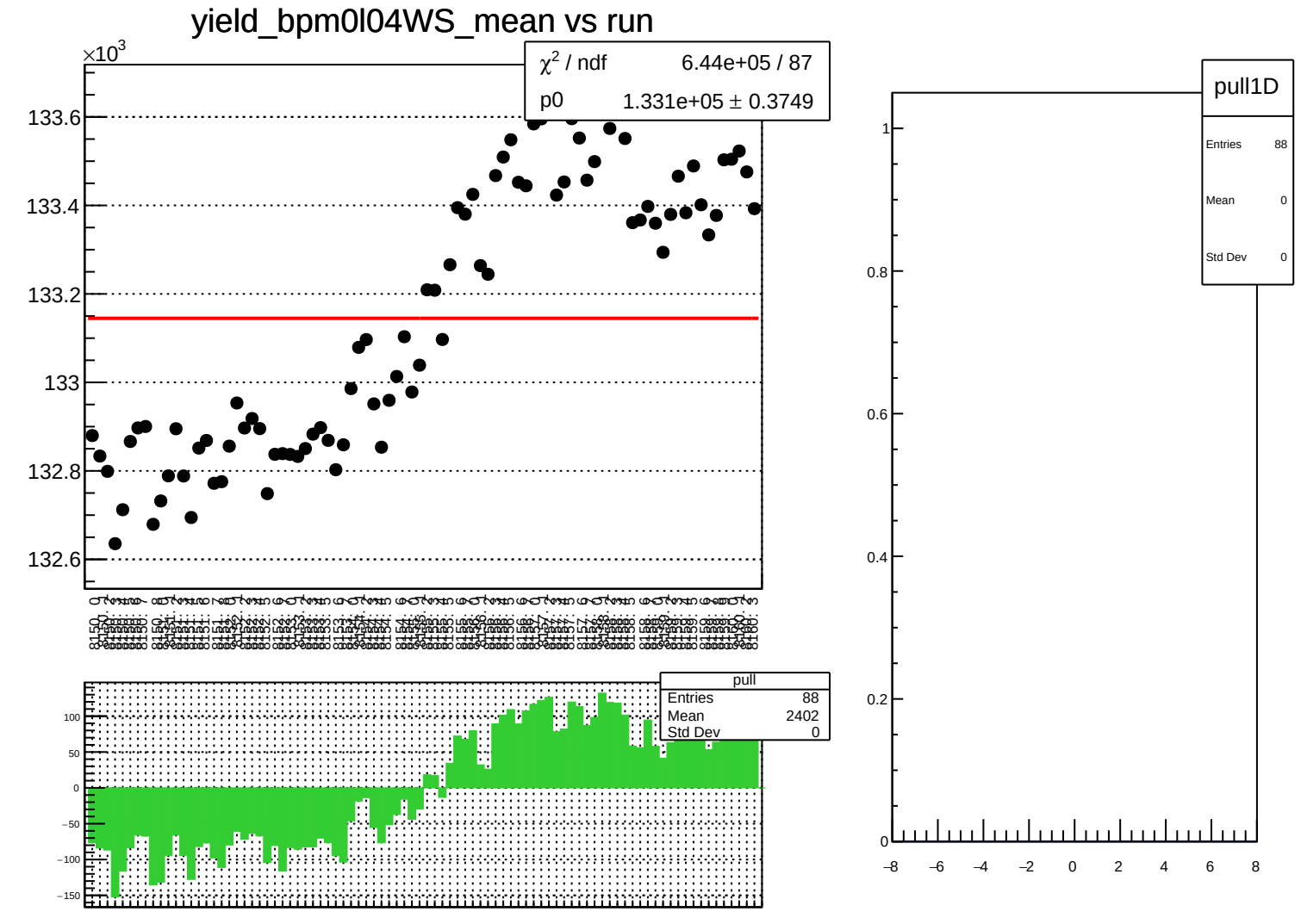

yield_bpm0l02WS_mean vs run
×10^3
137.2
137
136.8
136.6
136.4
136.2
136
χ² / ndf 8.88e+05 / 87
p0 1.365e+05 ± 0.334
pull
Entries 88
Mean −2066
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 88
Mean 4.13
Std Dev 3.26
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

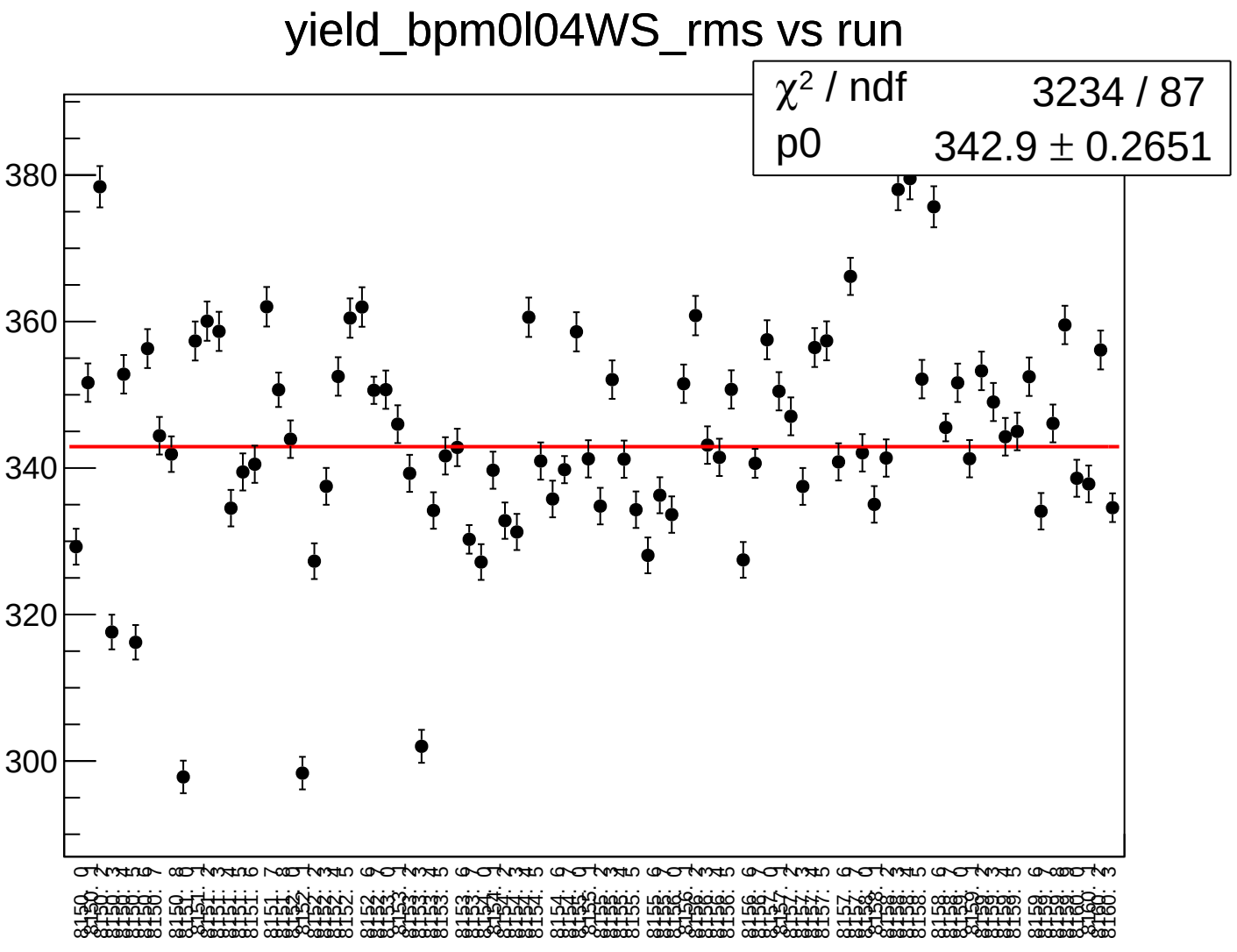

yield_bpm0l02WS_rms vs run
χ² / ndf 1392 / 87
p0 305.7 ± 0.2362
340
330
320
310
300
290

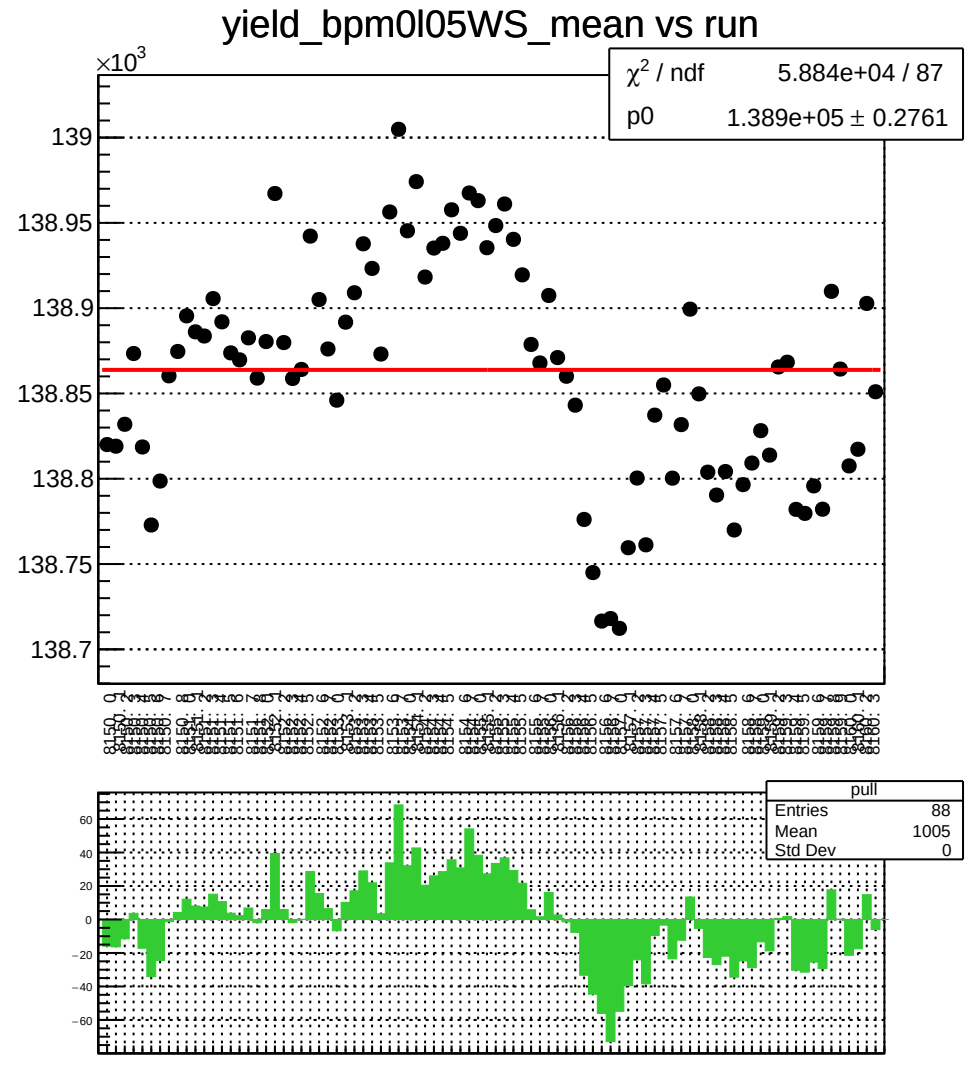

yield_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 1.011e+06 / 87
p0 1.285e+05 ± 0.4154
129
128.5
128
127.5
127
pull
Entries 88
Mean 46.04
Std Dev 0
200
100
0
−100
−200

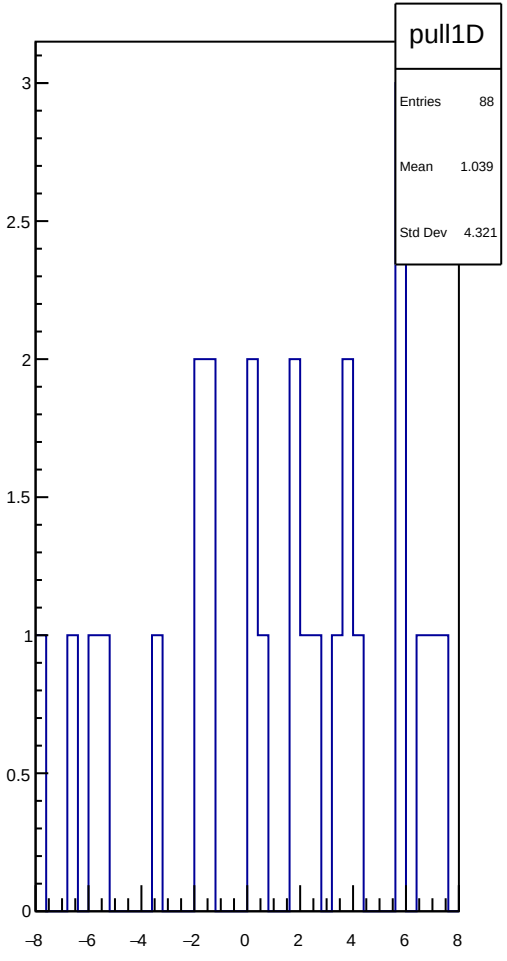

pull1D
Entries 88
Mean −1.39
Std Dev 4.191
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

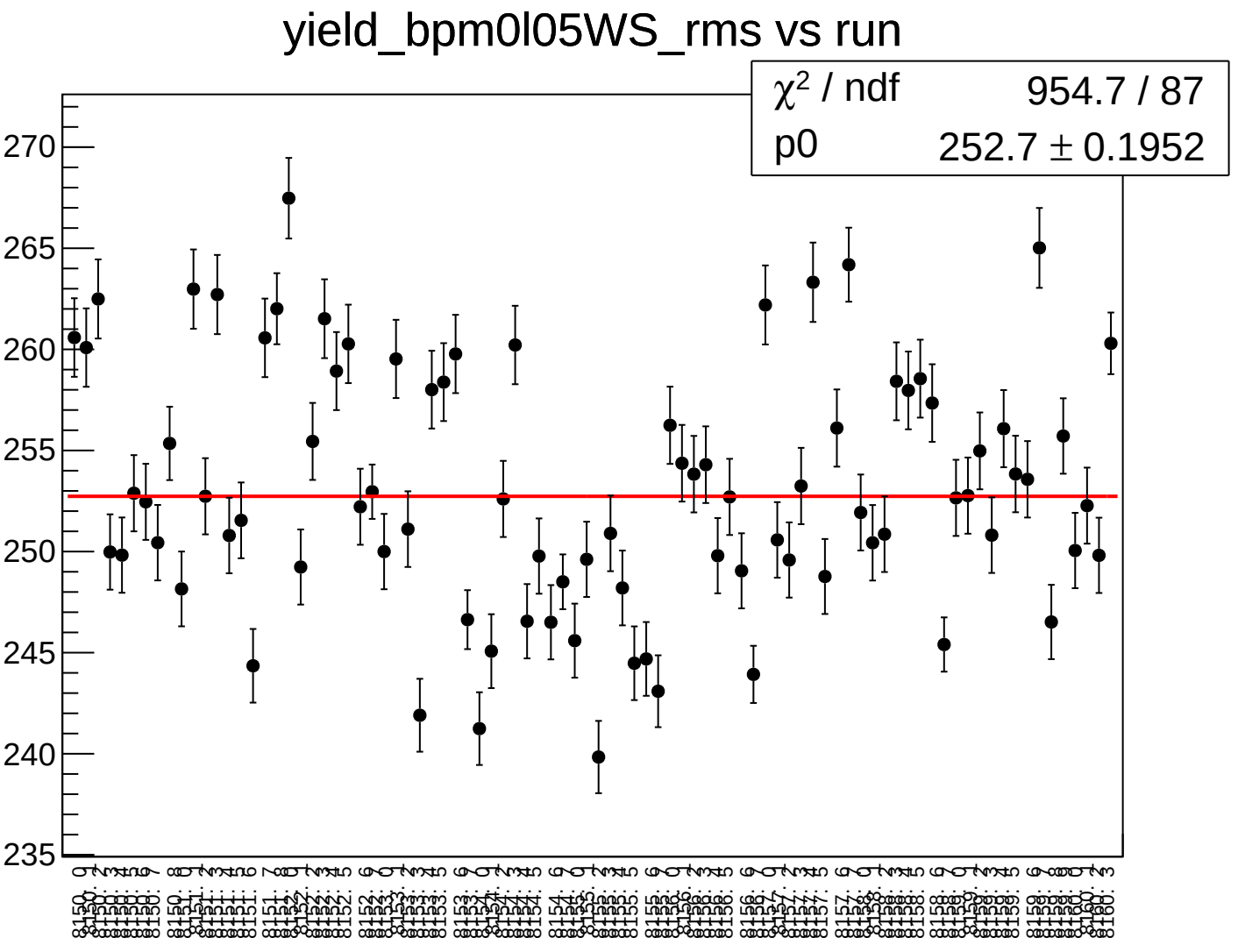

yield_bpm0l03WS_rms vs run
χ² / ndf 2.983e+05 / 87
p0 344.9 ± 0.2938
2500
2000
1500
1000
500

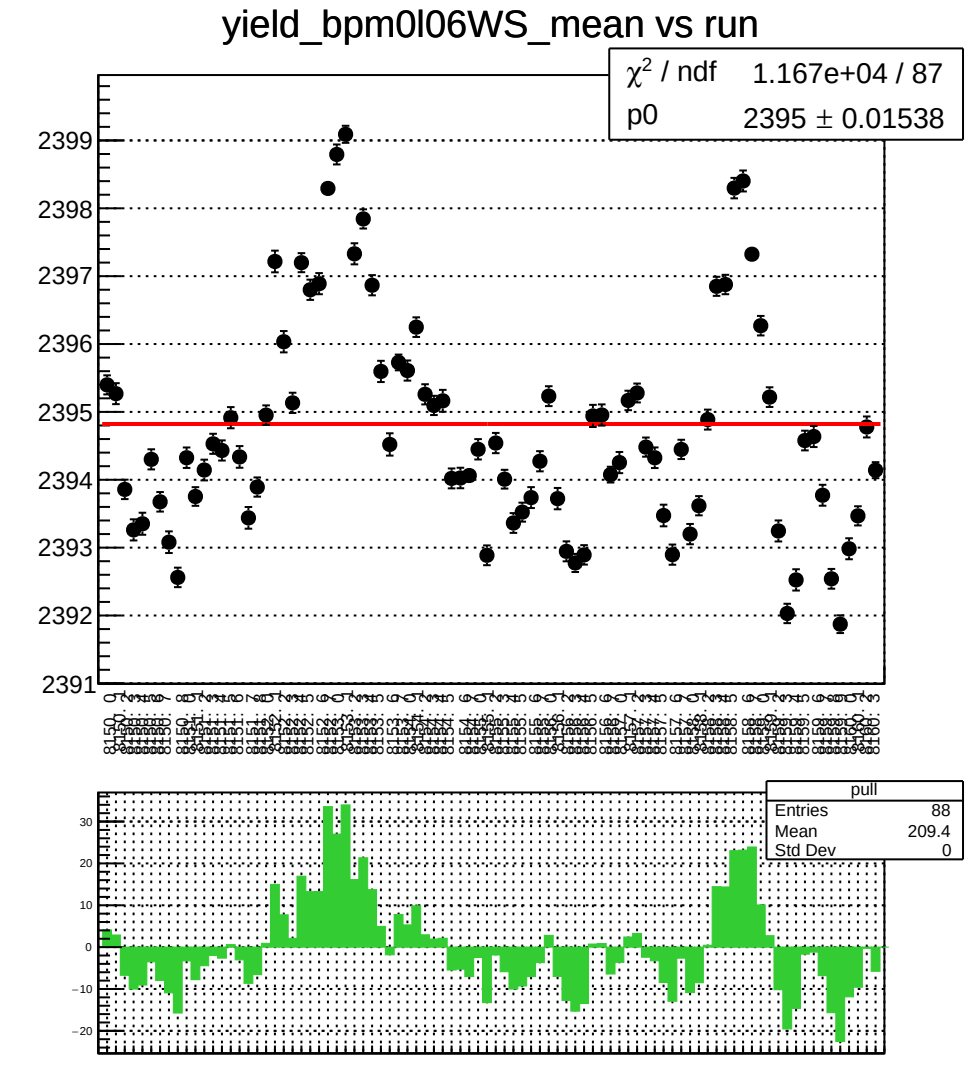

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 6.44e+05 / 87
p0 1.331e+05 ± 0.3749
133.6
133.4
133.2
133
132.8
132.6
pull
Entries 88
Mean 2402
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

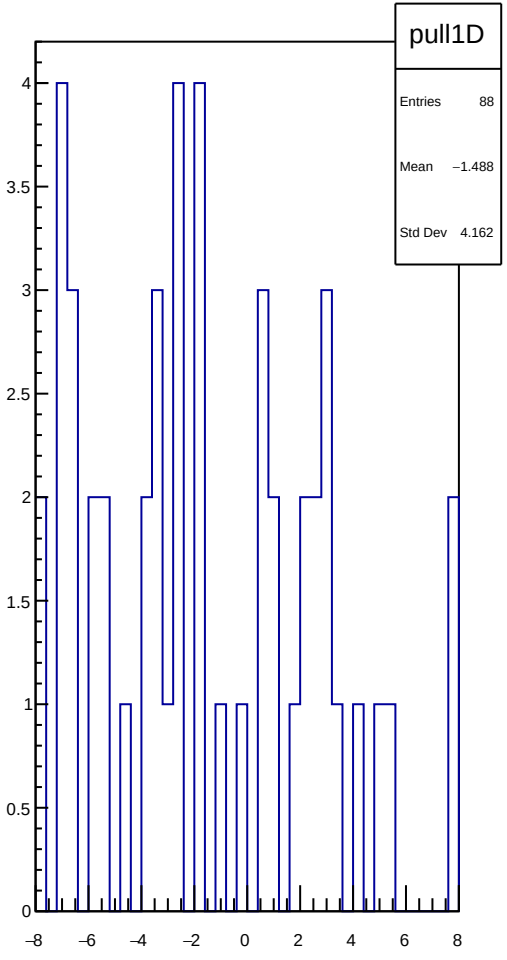

yield_bpm0l04WS_rms vs run
χ² / ndf 3234 / 87
p0 342.9 ± 0.2651
380
360
340
320
300

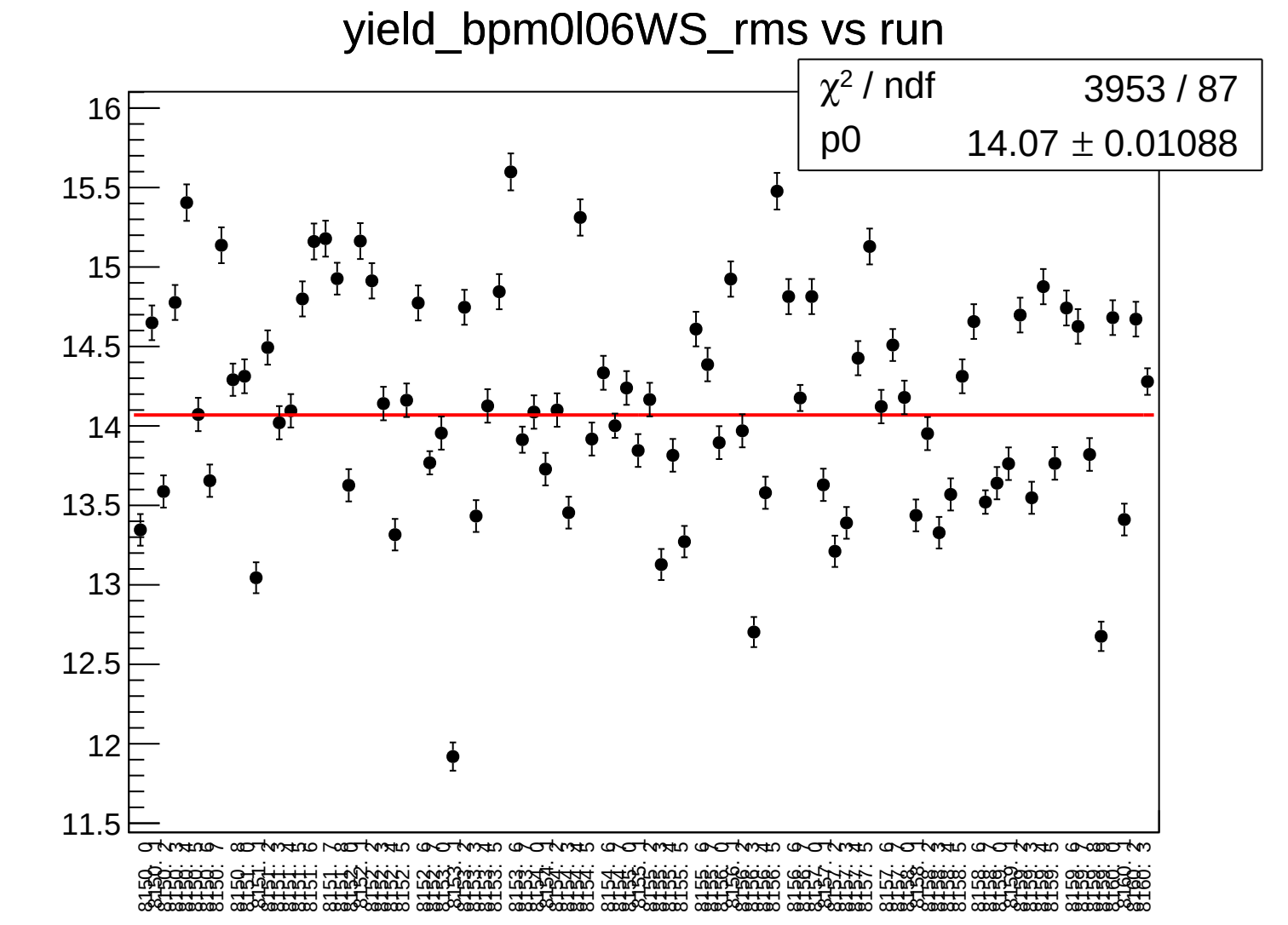

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 5.884e+04 / 87
p0 1.389e+05 ± 0.2761
139
138.95
138.9
138.85
138.8
138.75
138.7
pull
Entries 88
Mean 1005
Std Dev 0
60
40
20
0
−20
−40
−60

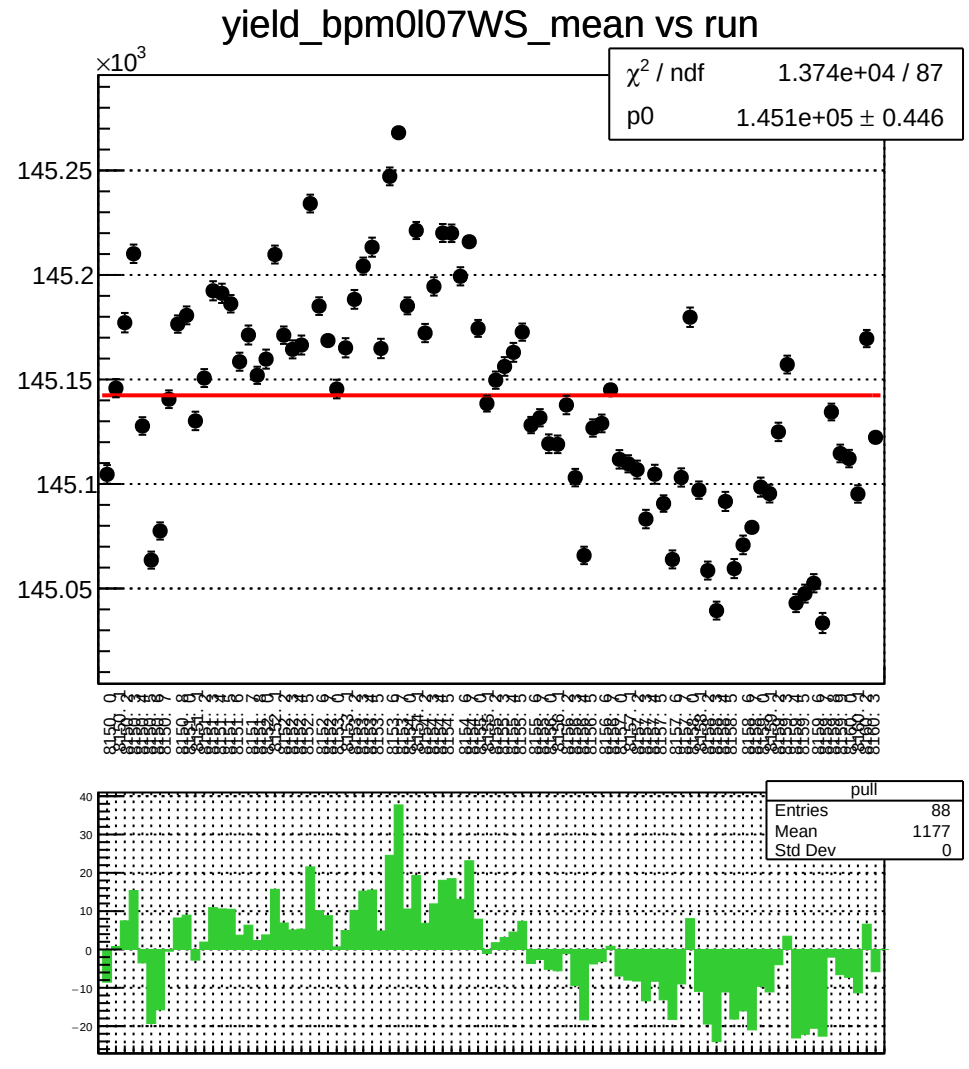

pull1D
Entries 88
Mean 1.039
Std Dev 4.321
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

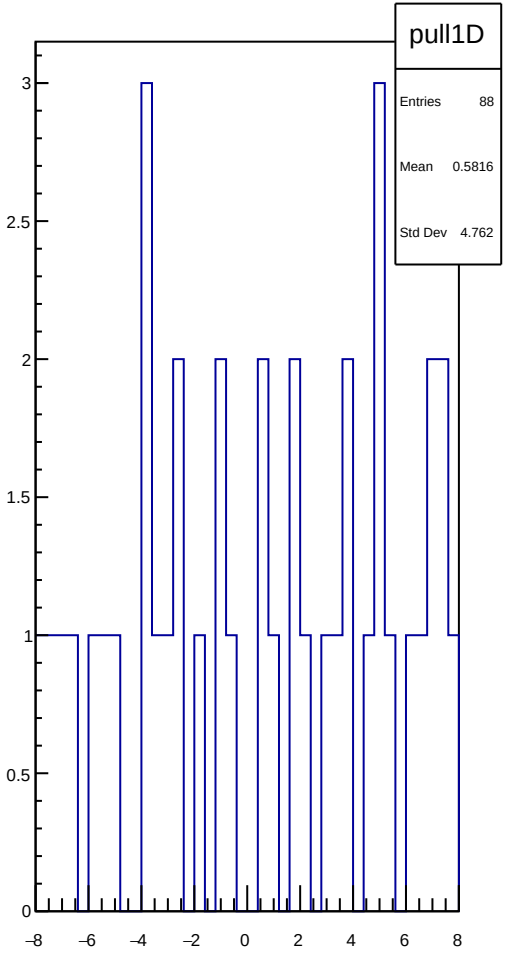

yield_bpm0l05WS_rms vs run
χ² / ndf 954.7 / 87
p0 252.7 ± 0.1952
270
265
260
255
250
245
240
235

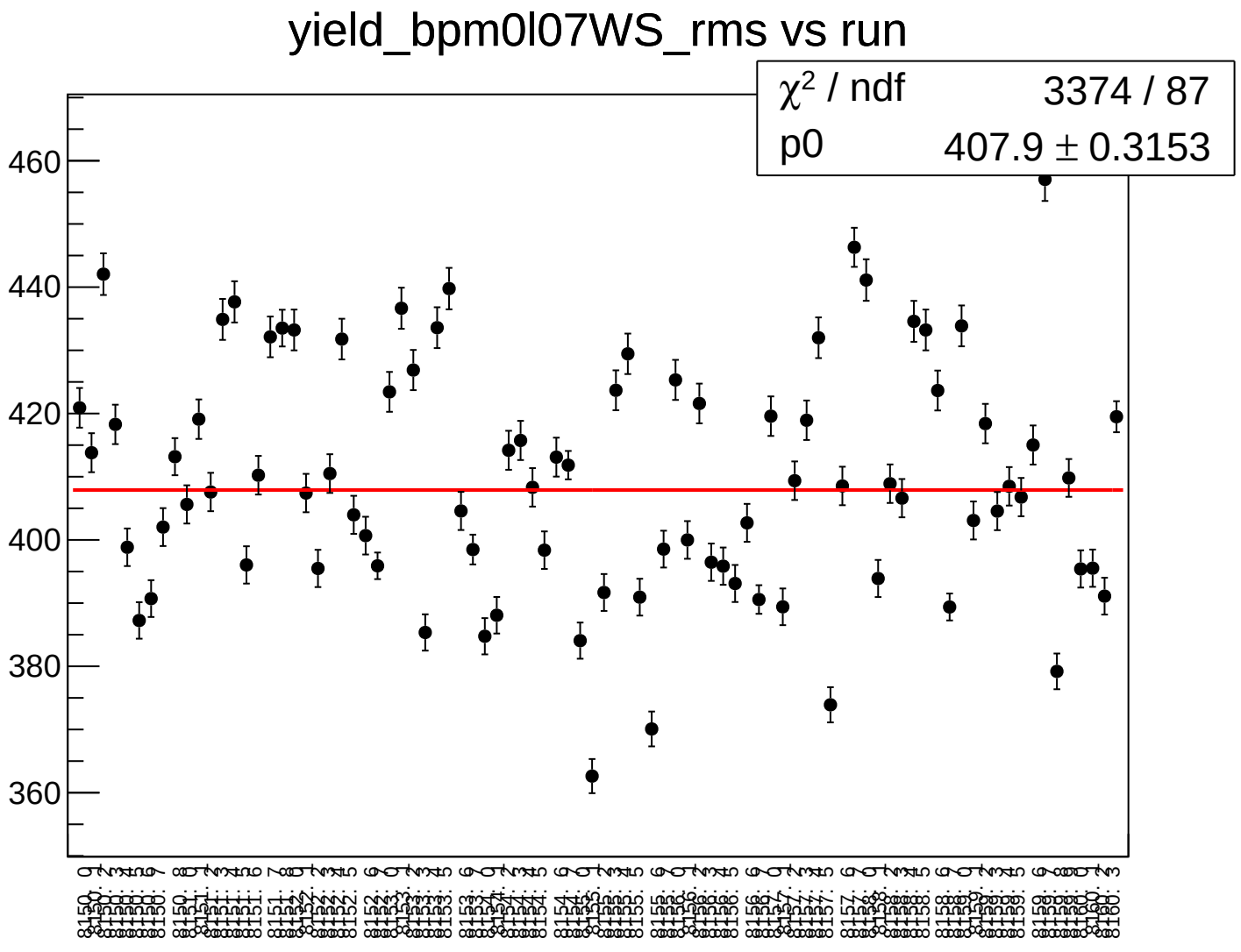

yield_bpm0l06WS_mean vs run
χ² / ndf 1.167e+04 / 87
p0 2395 ± 0.01538
2399
2398
2397
2396
2395
2394
2393
2392
2391
pull
Entries 88
Mean 209.4
Std Dev 0
30
20
10
0
−10
−20

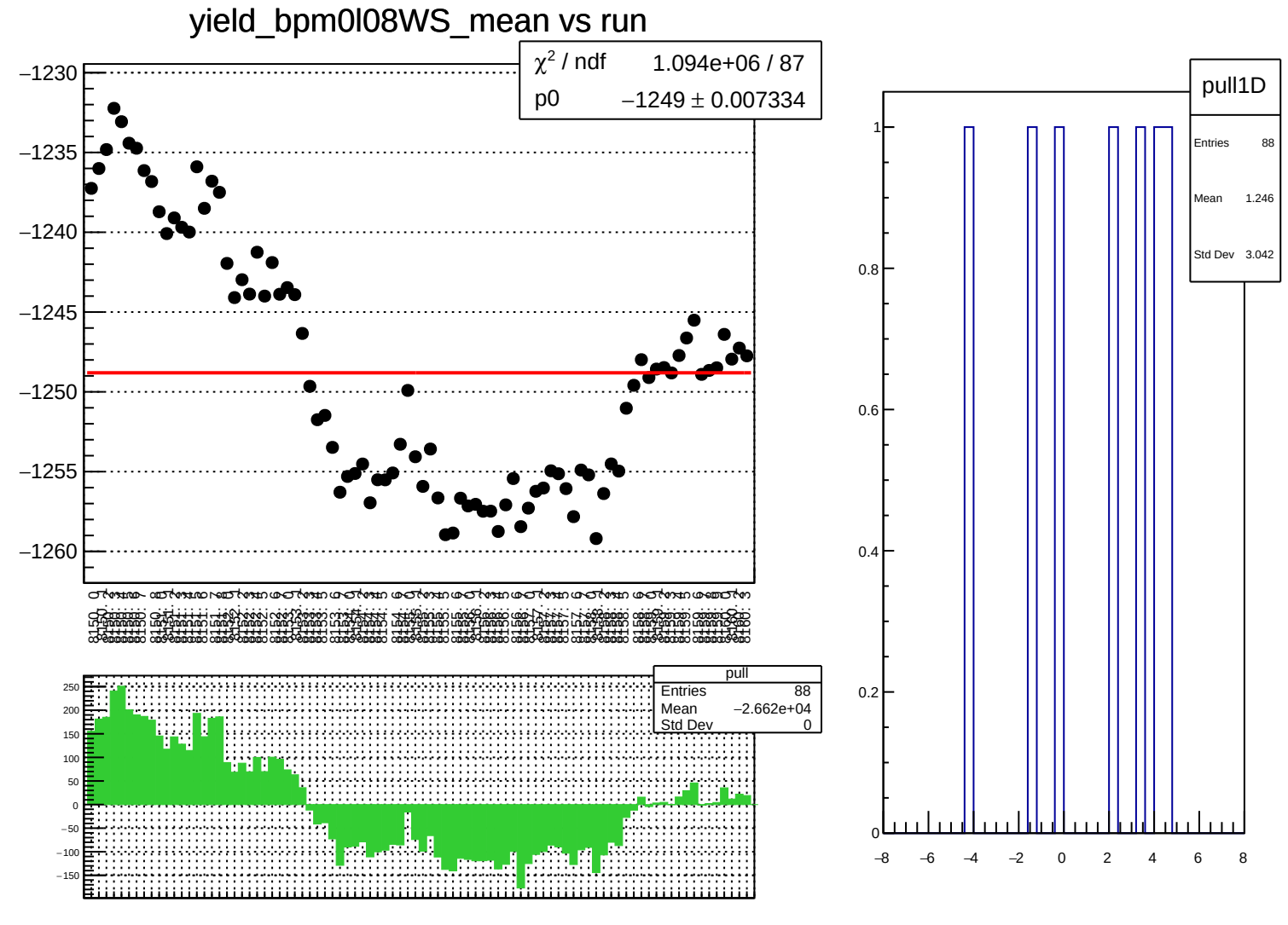

pull1D
Entries 88
Mean −1.488
Std Dev 4.162
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

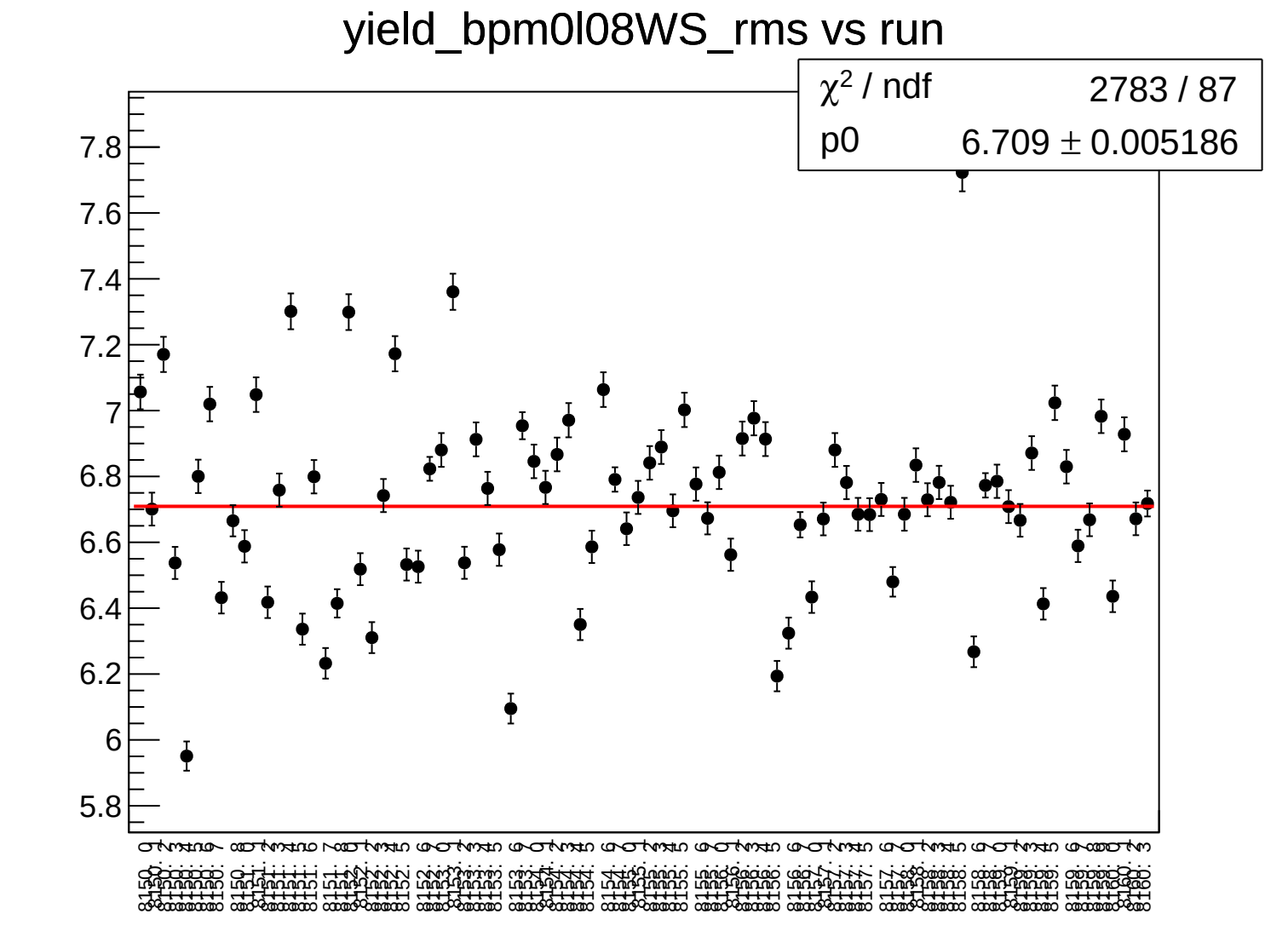

yield_bpm0l06WS_rms vs run
χ² / ndf 3953 / 87
p0 14.07 ± 0.01088
16
15.5
15
14.5
14
13.5
13
12.5
12
11.5

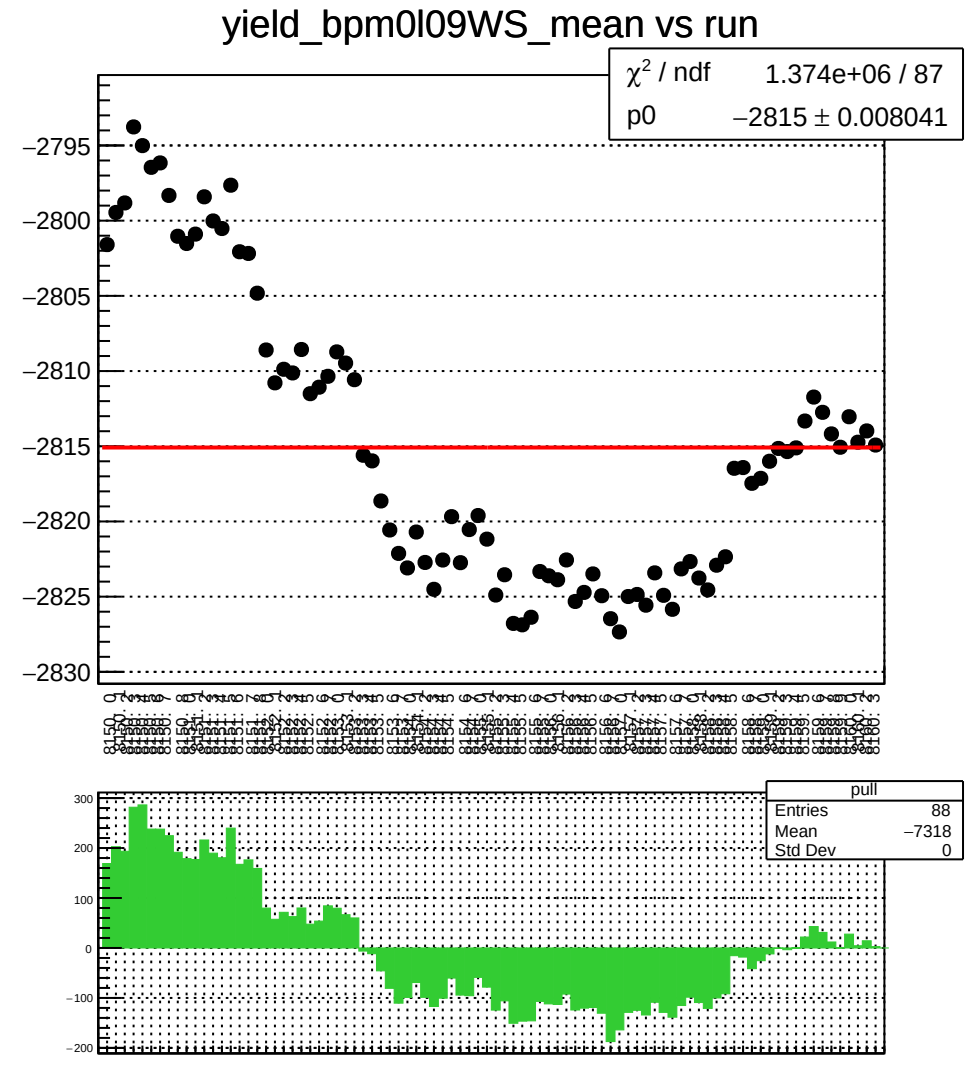

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 1.374e+04 / 87
p0 1.451e+05 ± 0.446
145.25
145.2
145.15
145.1
145.05
pull
Entries 88
Mean 1177
Std Dev 0
40
30
20
10
0
−10
−20

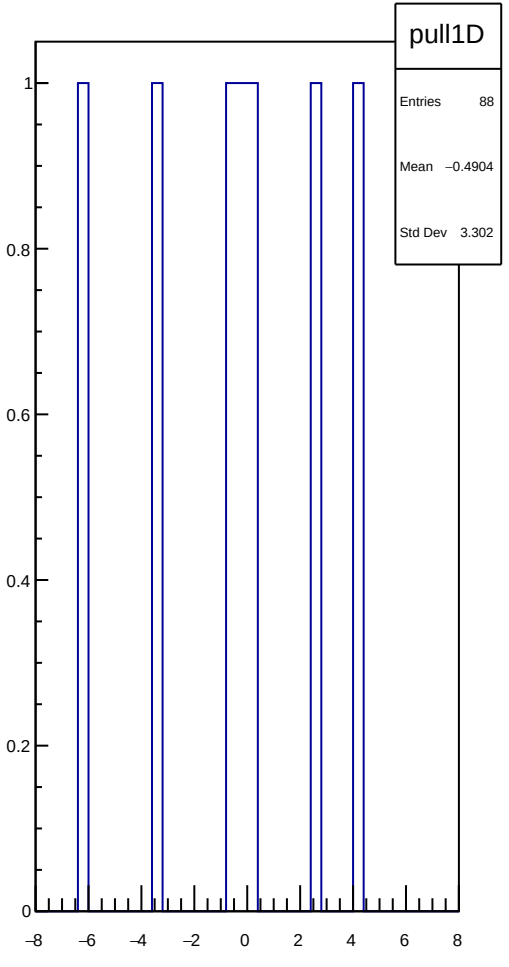

pull1D
Entries 88
Mean 0.5816
Std Dev 4.762
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

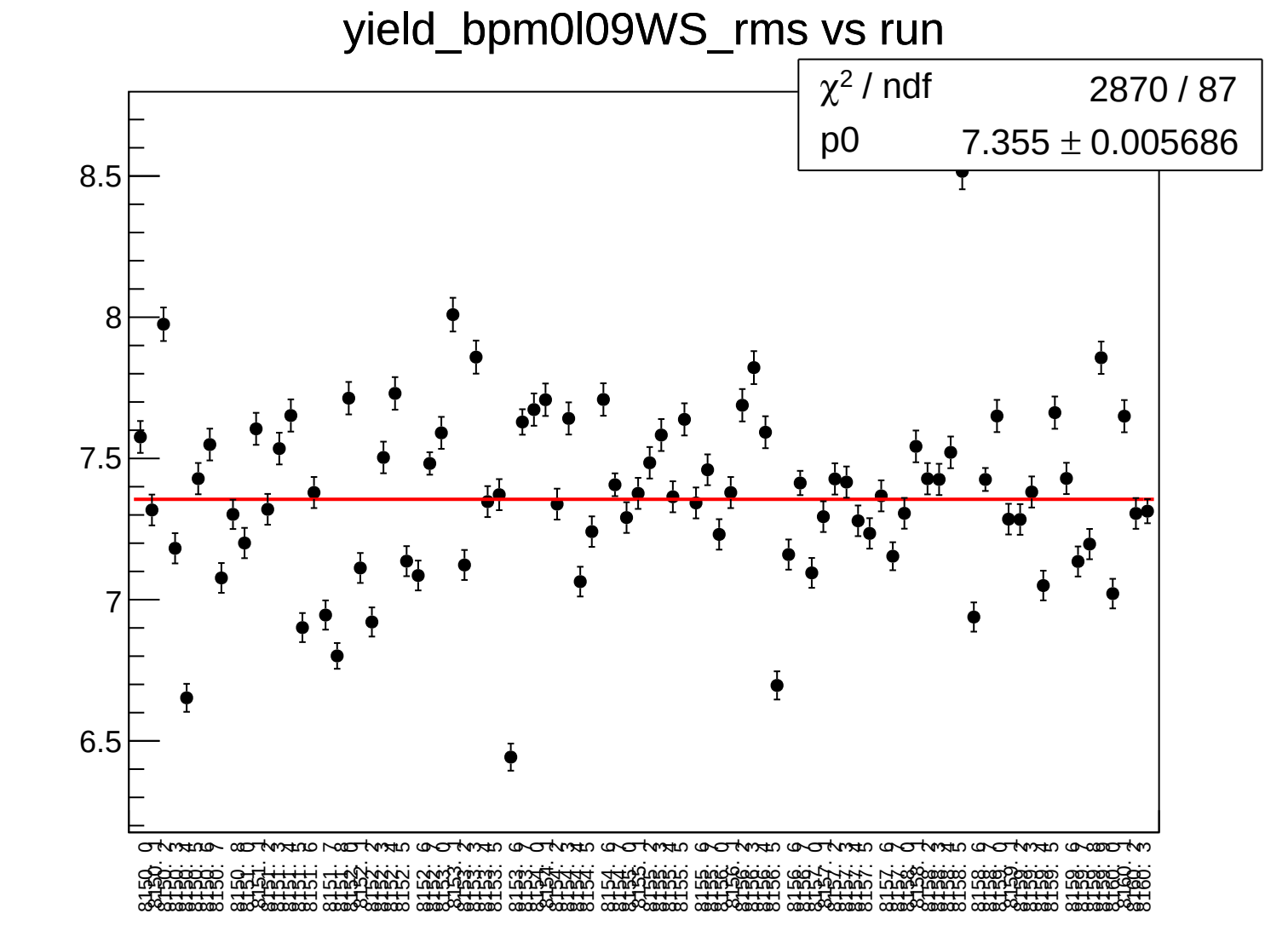

yield_bpm0l07WS_rms vs run
χ² / ndf 3374 / 87
p0 407.9 ± 0.3153
460
440
420
400
380
360

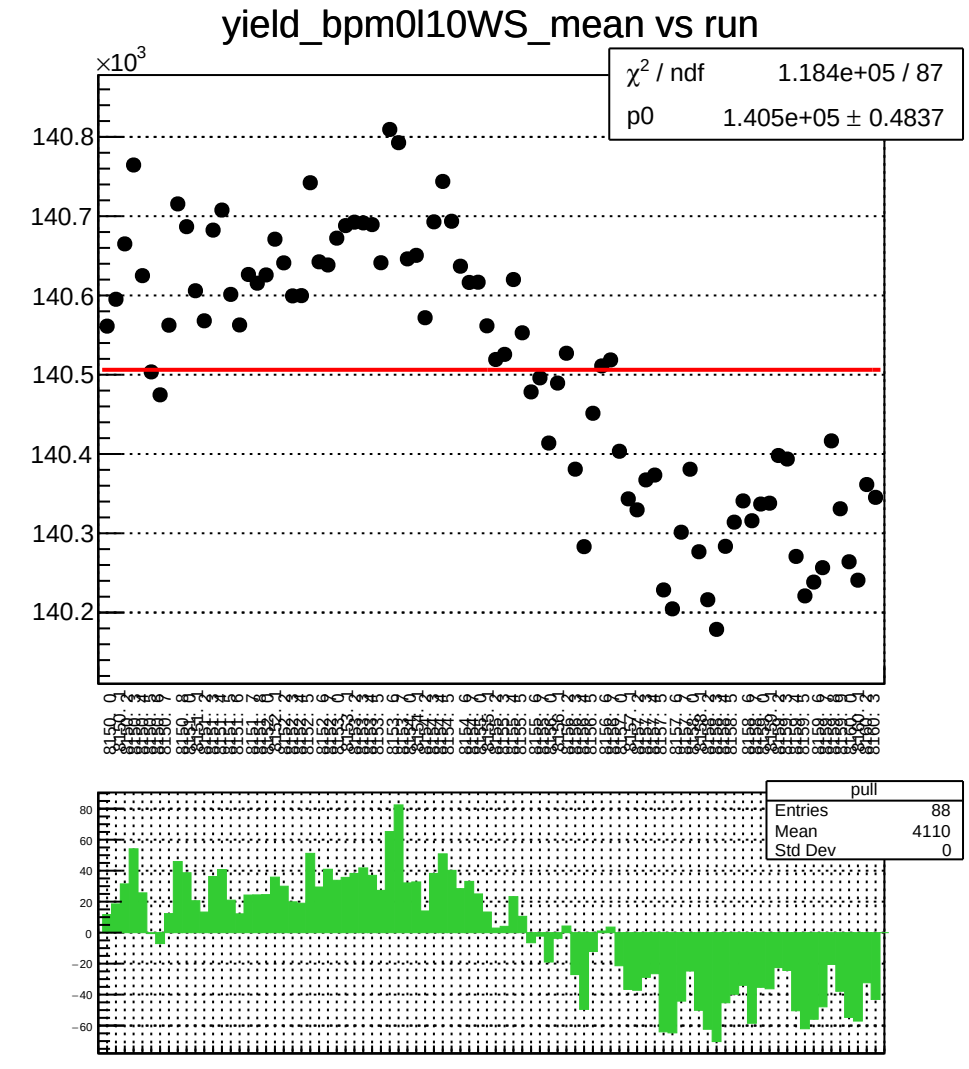

yield_bpm0l08WS_mean vs run
χ² / ndf 1.094e+06 / 87
p0 −1249 ± 0.007334
−1230
−1235
−1240
−1245
−1250
−1255
−1260
pull
Entries 88
Mean −2.662e+04
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
pull1D
Entries 88
Mean 1.246
Std Dev 3.042
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

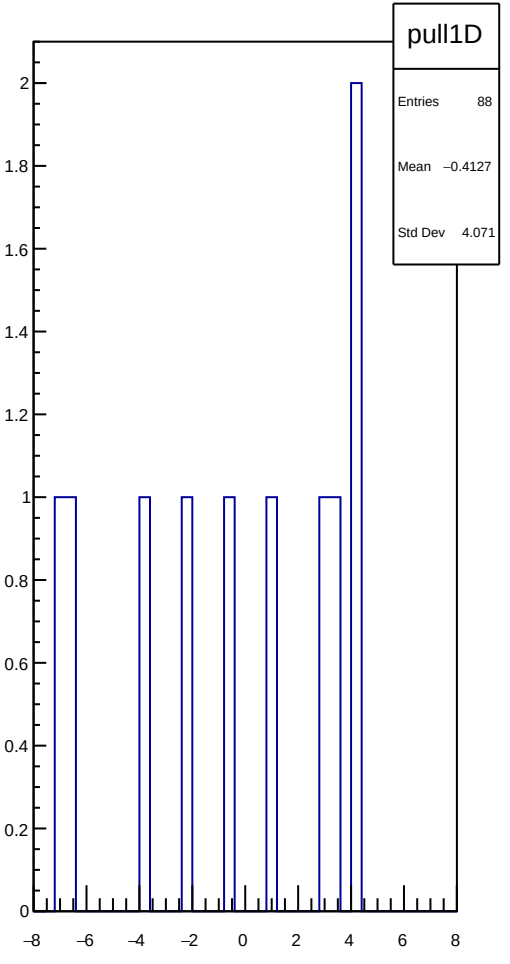

yield_bpm0l08WS_rms vs run
χ^2 / ndf 2783 / 87
p0 6.709 ± 0.005186
7.8
7.6
7.4
7.2
7
6.8
6.6
6.4
6.2
6
5.8

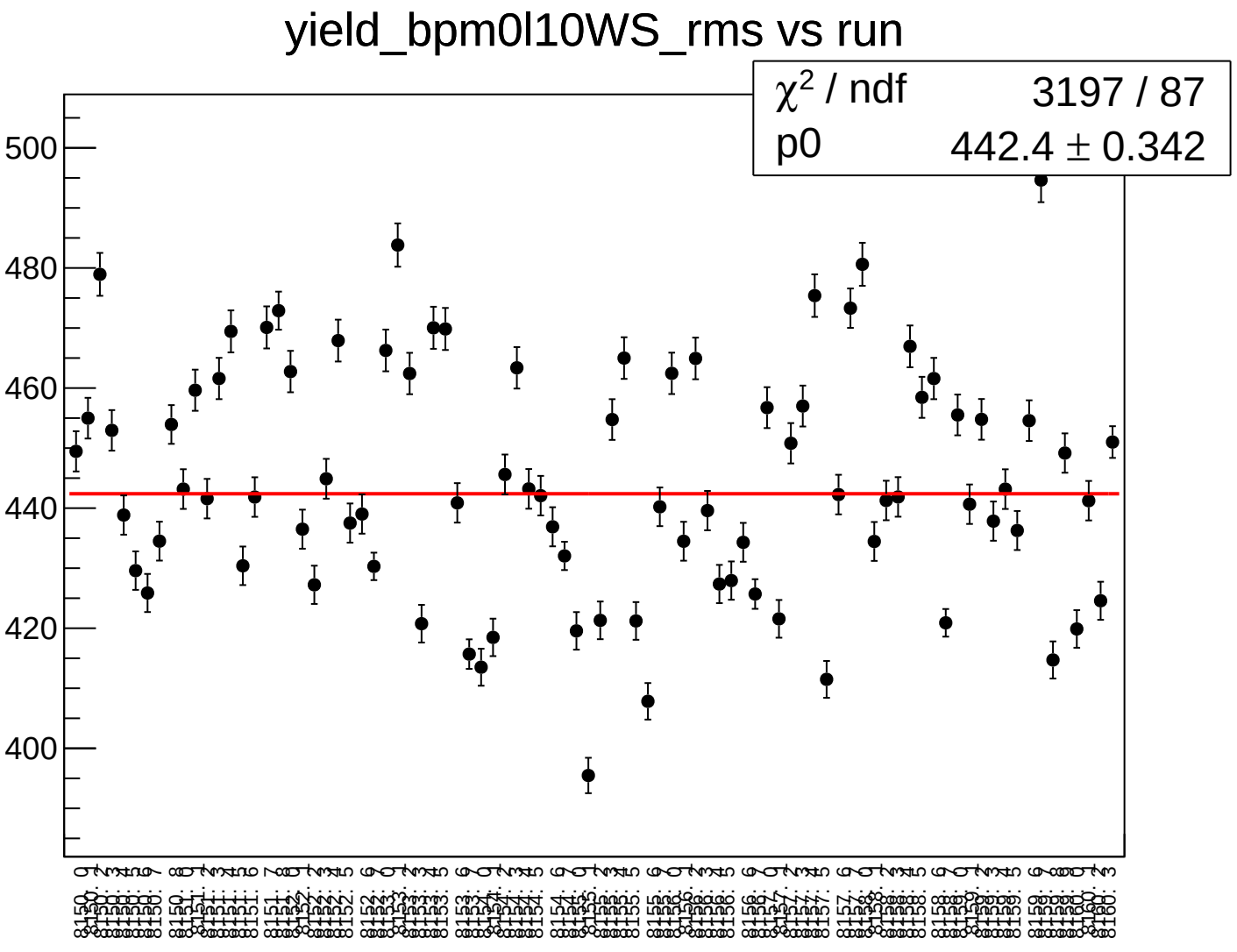

yield_bpm0l09WS_mean vs run
χ² / ndf 1.374e+06 / 87
p0 −2815 ± 0.008041
−2795
−2800
−2805
−2810
−2815
−2820
−2825
−2830
pull
Entries 88
Mean −7318
Std Dev 0
300
200
100
0
−100
−200

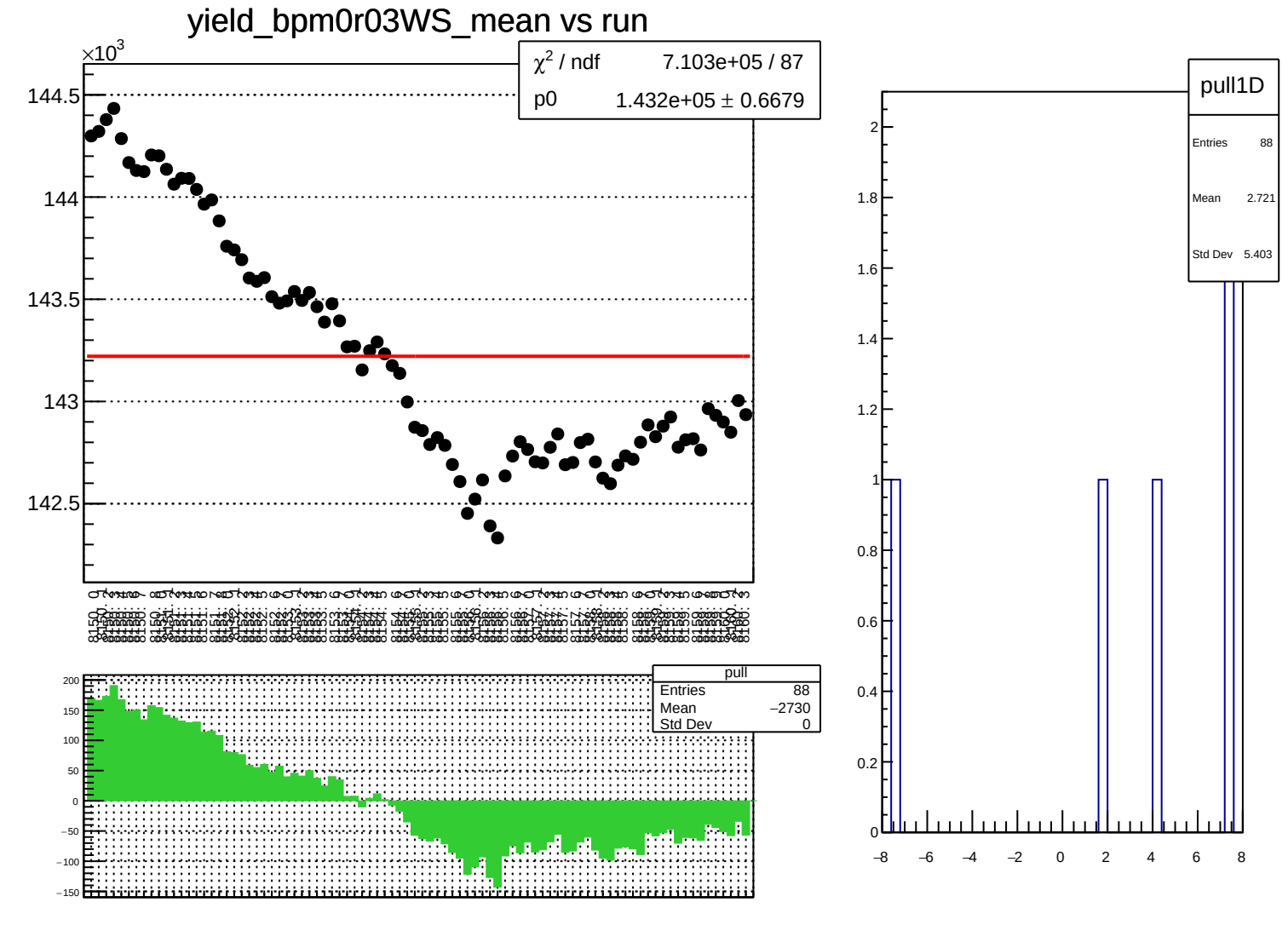

pull1D
Entries 88
Mean −0.4904
Std Dev 3.302
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

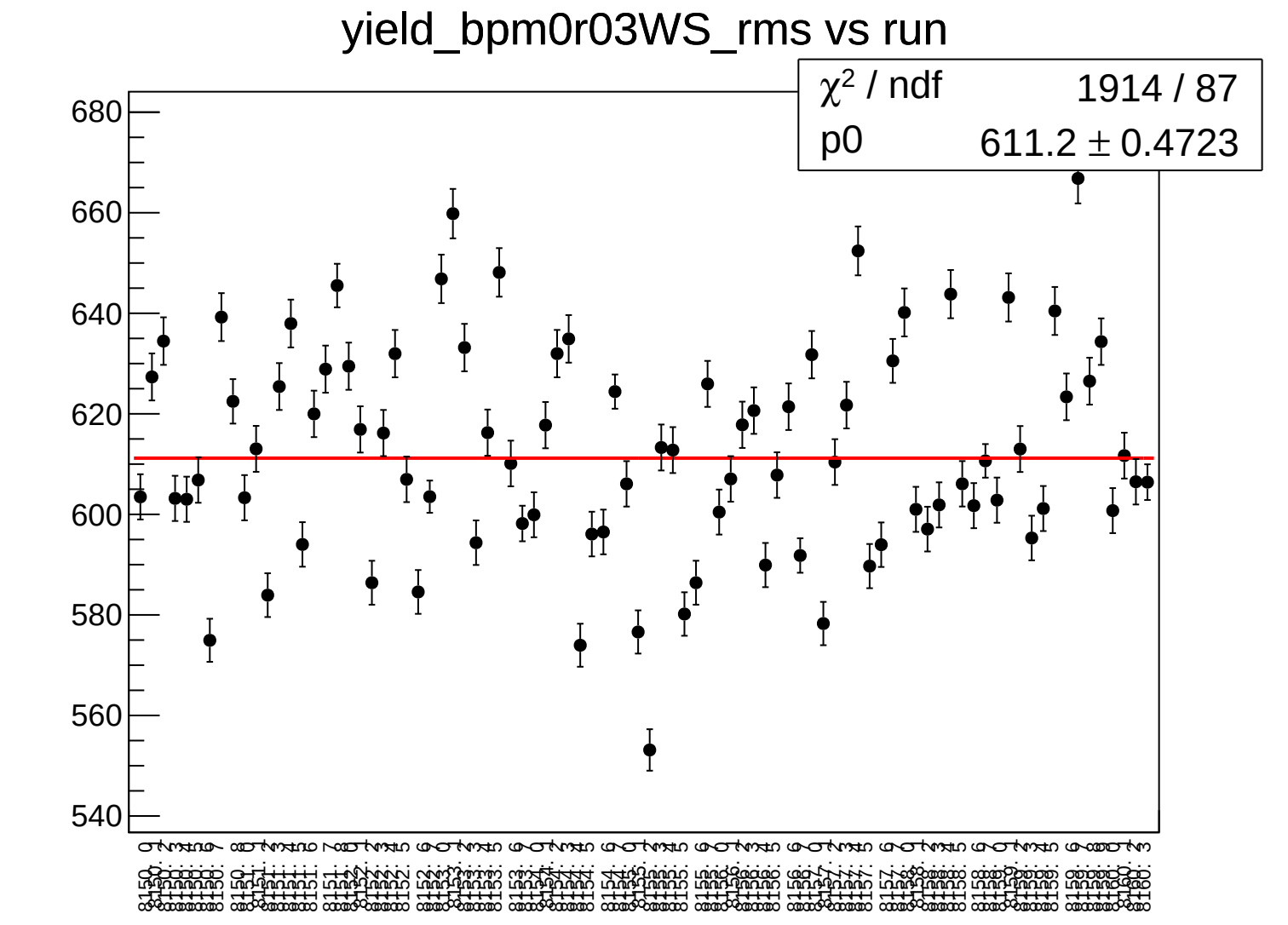

yield_bpm0l09WS_rms vs run
χ² / ndf 2870 / 87
p0 7.355 ± 0.005686
8.5
8
7.5
7
6.5

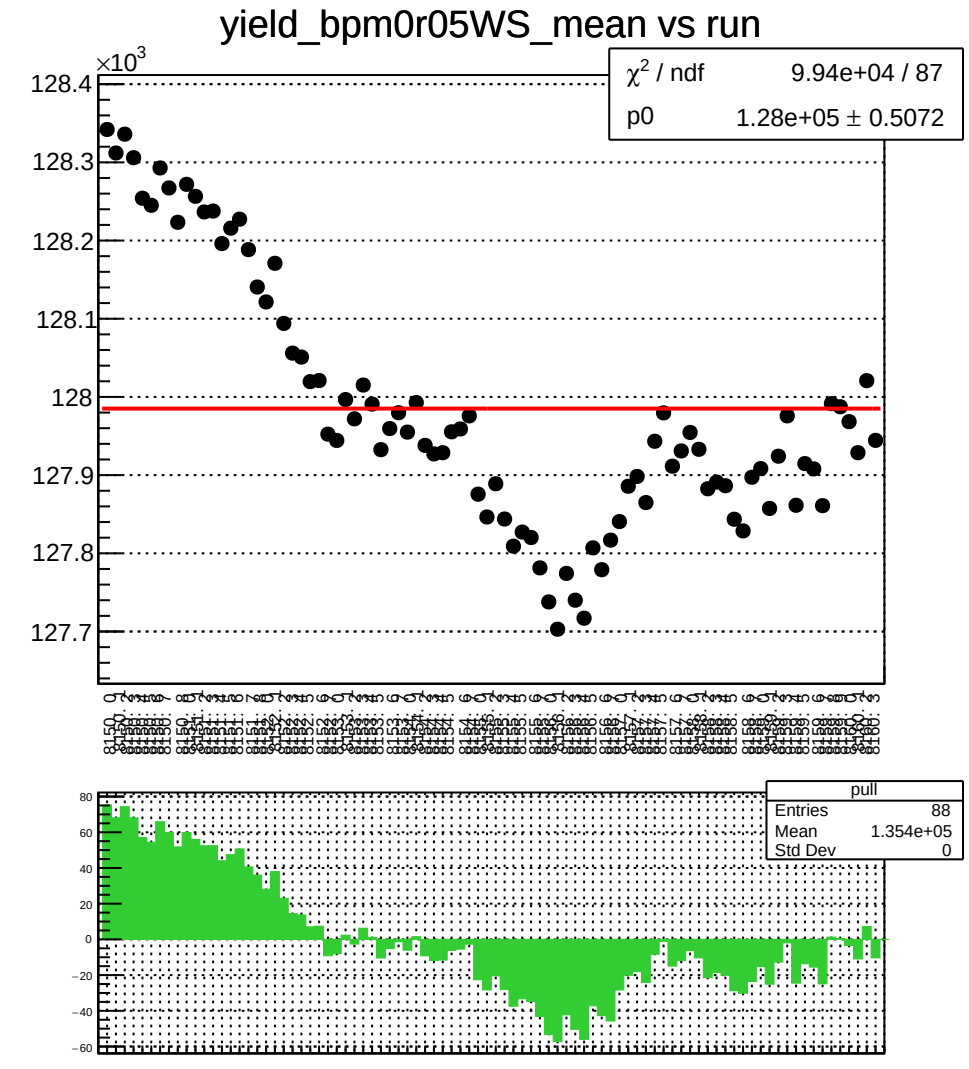

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.184e+05 / 87
p0 1.405e+05 ± 0.4837
140.8
140.7
140.6
140.5
140.4
140.3
140.2
pull
Entries 88
Mean 4110
Std Dev 0
80
60
40
20
0
−20
−40
−60

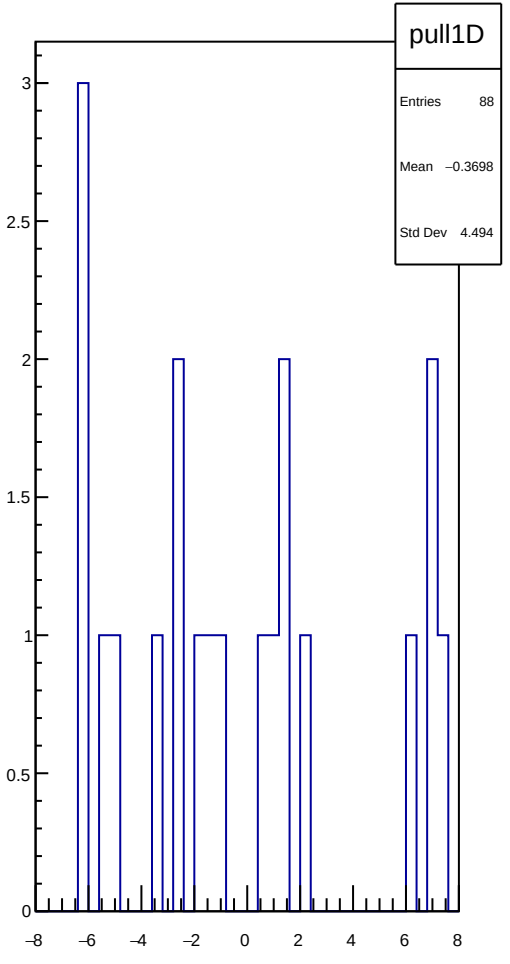

pull1D
Entries 88
Mean −0.4127
Std Dev 4.071
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

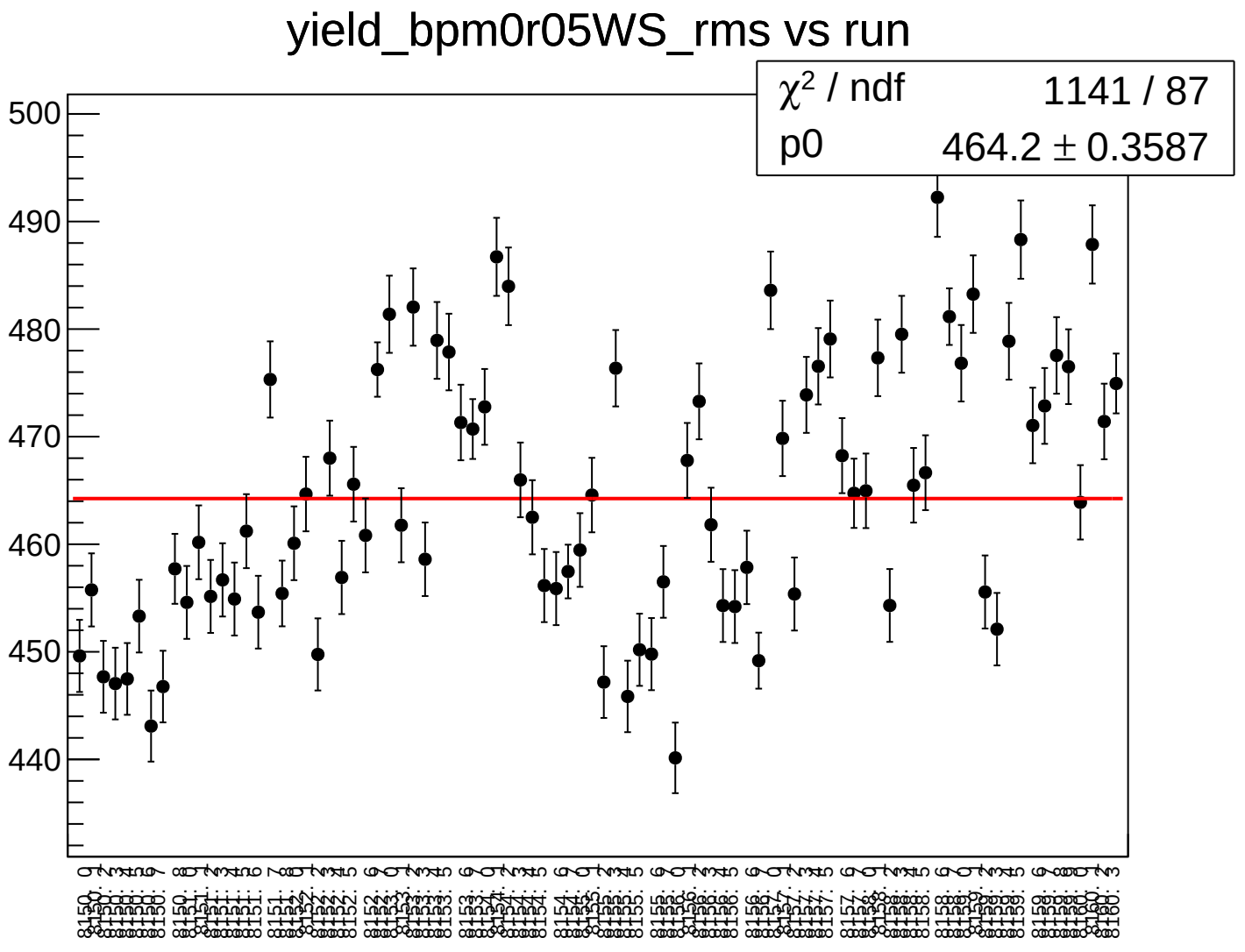

yield_bpm0l10WS_rms vs run
χ² / ndf 3197 / 87
p0 442.4 ± 0.342
500
480
460
440
420
400

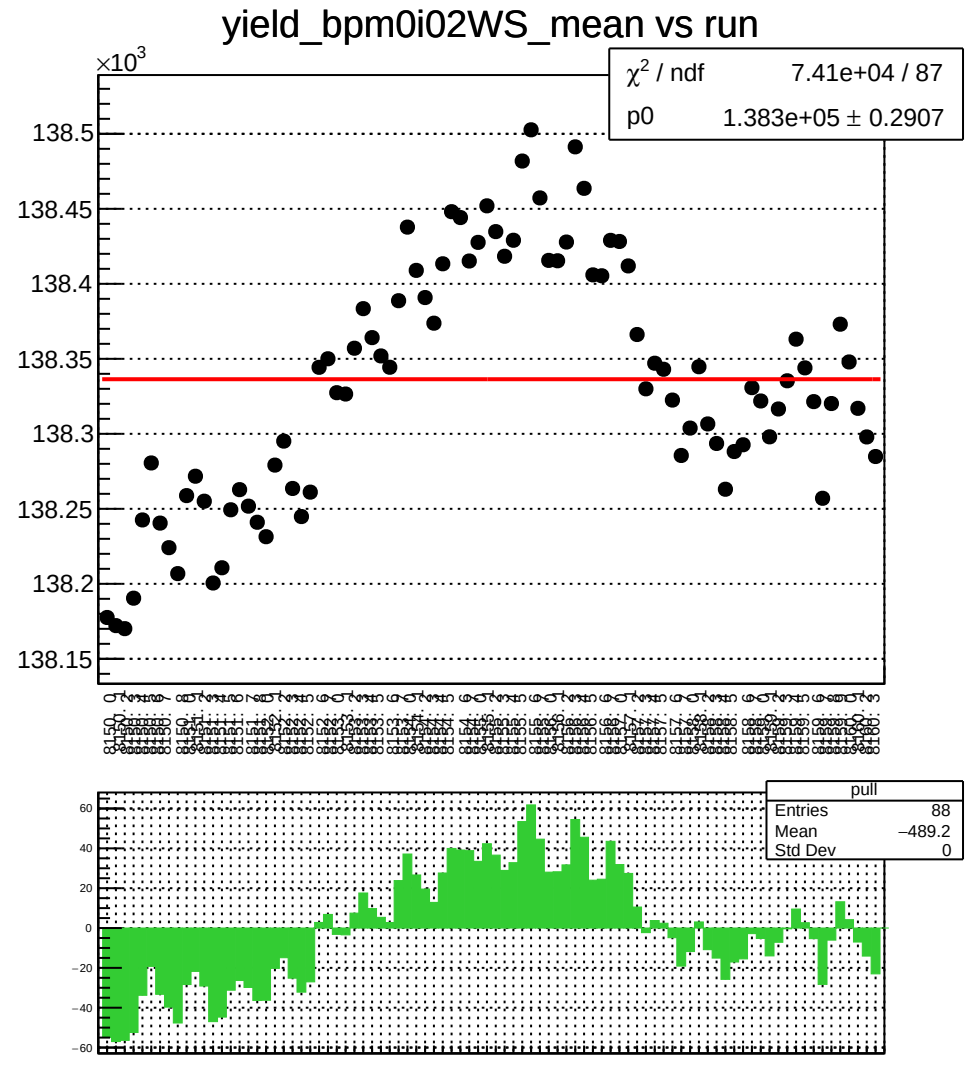

yield_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 7.103e+05 / 87
p0 1.432e+05 ± 0.6679
144.5
144
143.5
143
142.5
pull
Entries 88
Mean −2730
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 88
Mean 2.721
Std Dev 5.403
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

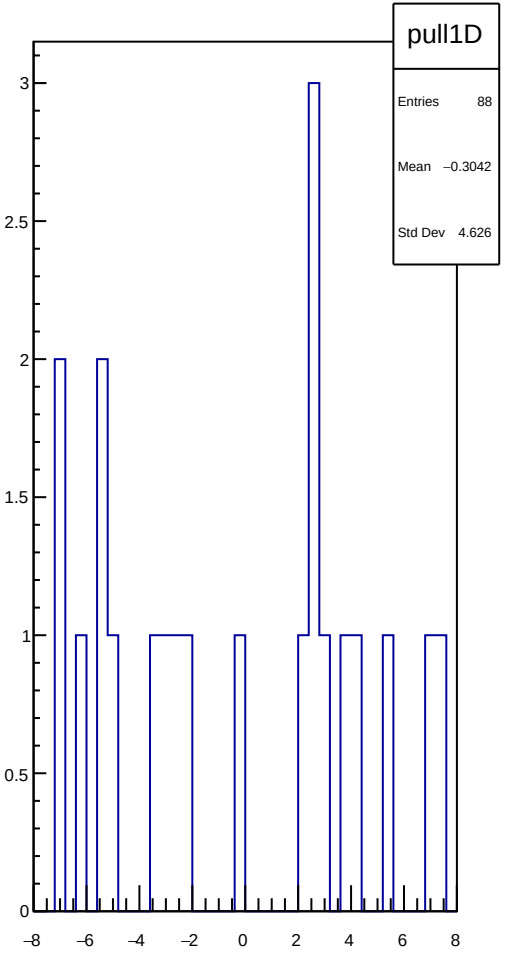

yield_bpm0r03WS_rms vs run
χ² / ndf 1914 / 87
p0 611.2 ± 0.4723
680
660
640
620
600
580
560
540

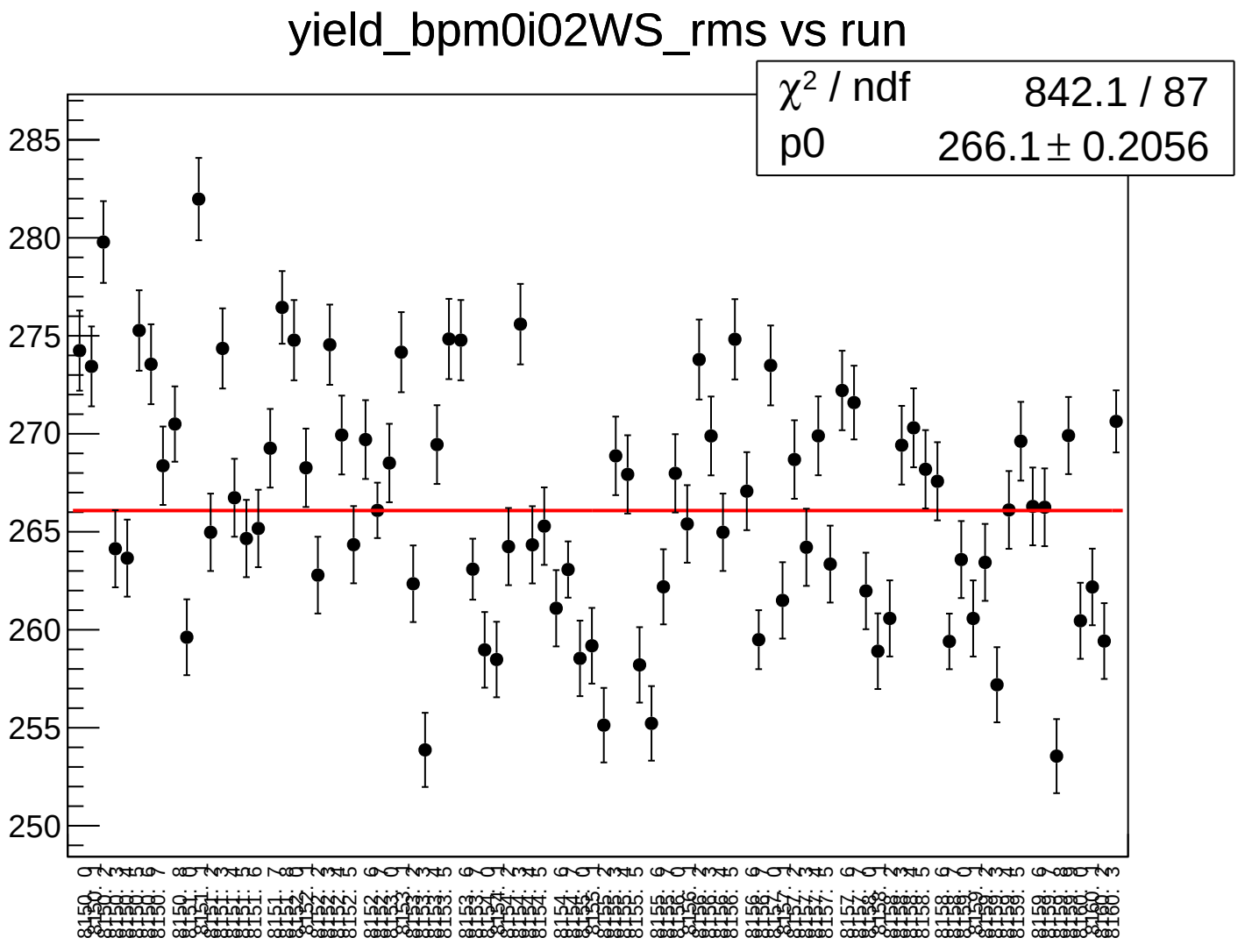

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 9.94e+04 / 87
p0 1.28e+05 ± 0.5072
128.4
128.3
128.2
128.1
128
127.9
127.8
127.7
pull
Entries 88
Mean 1.354e+05
Std Dev 0
80
60
40
20
0
−20
−40
−60

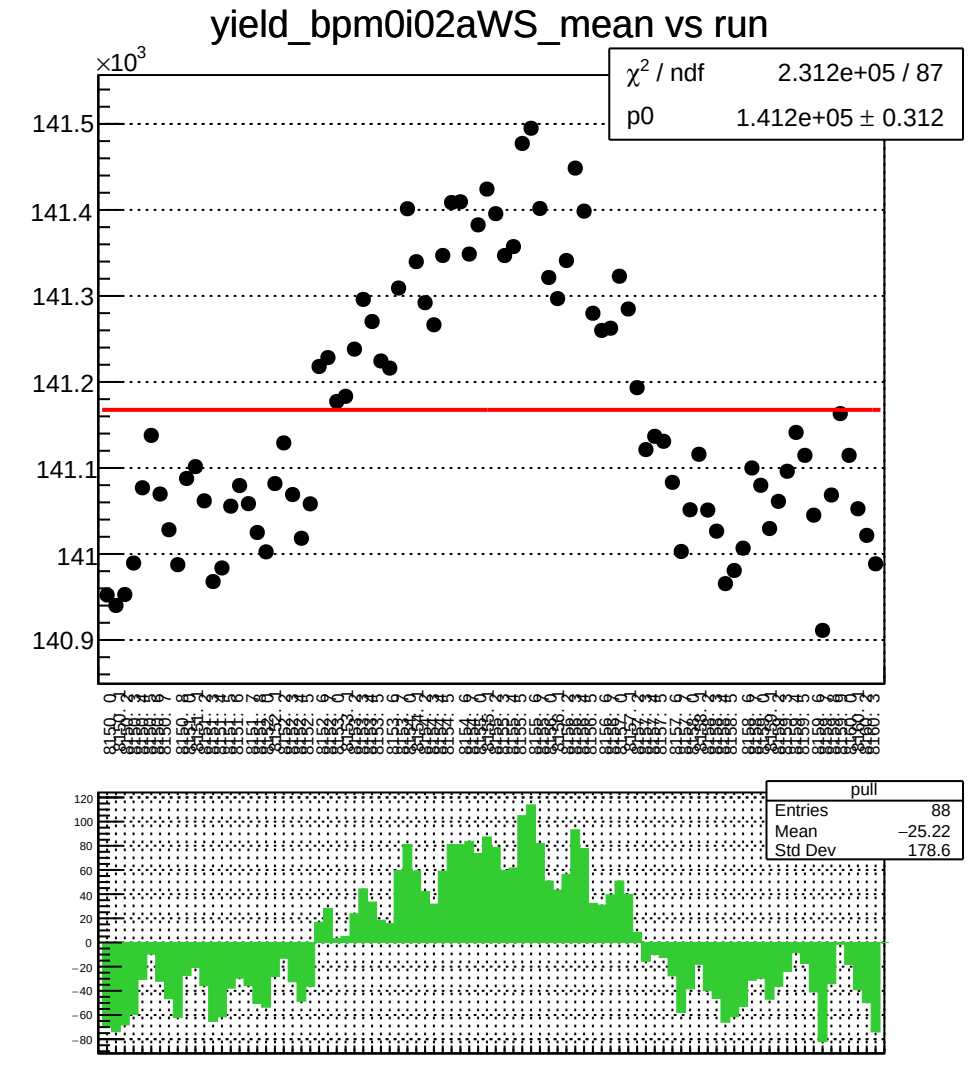

pull1D
Entries 88
Mean −0.3698
Std Dev 4.494
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

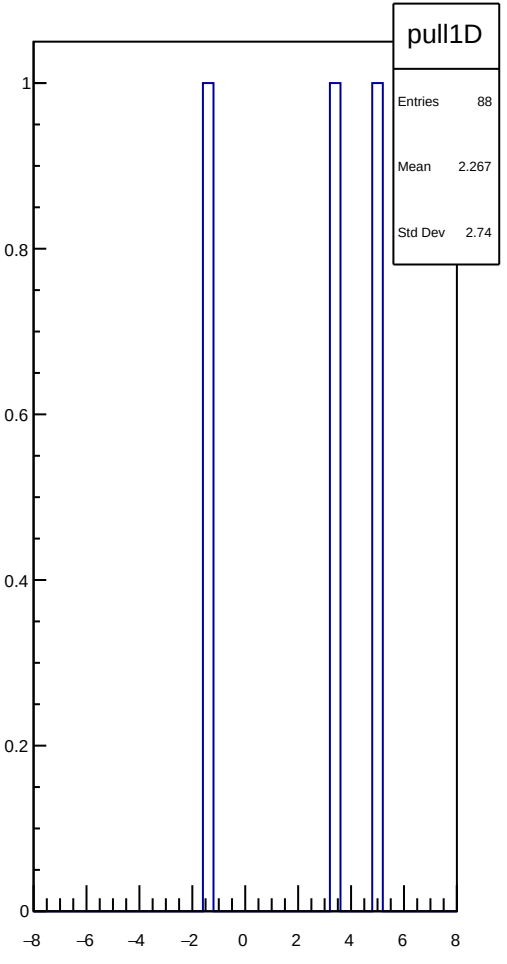

yield_bpm0r05WS_rms vs run
χ² / ndf 1141 / 87
p0 464.2 ± 0.3587
500
490
480
470
460
450
440

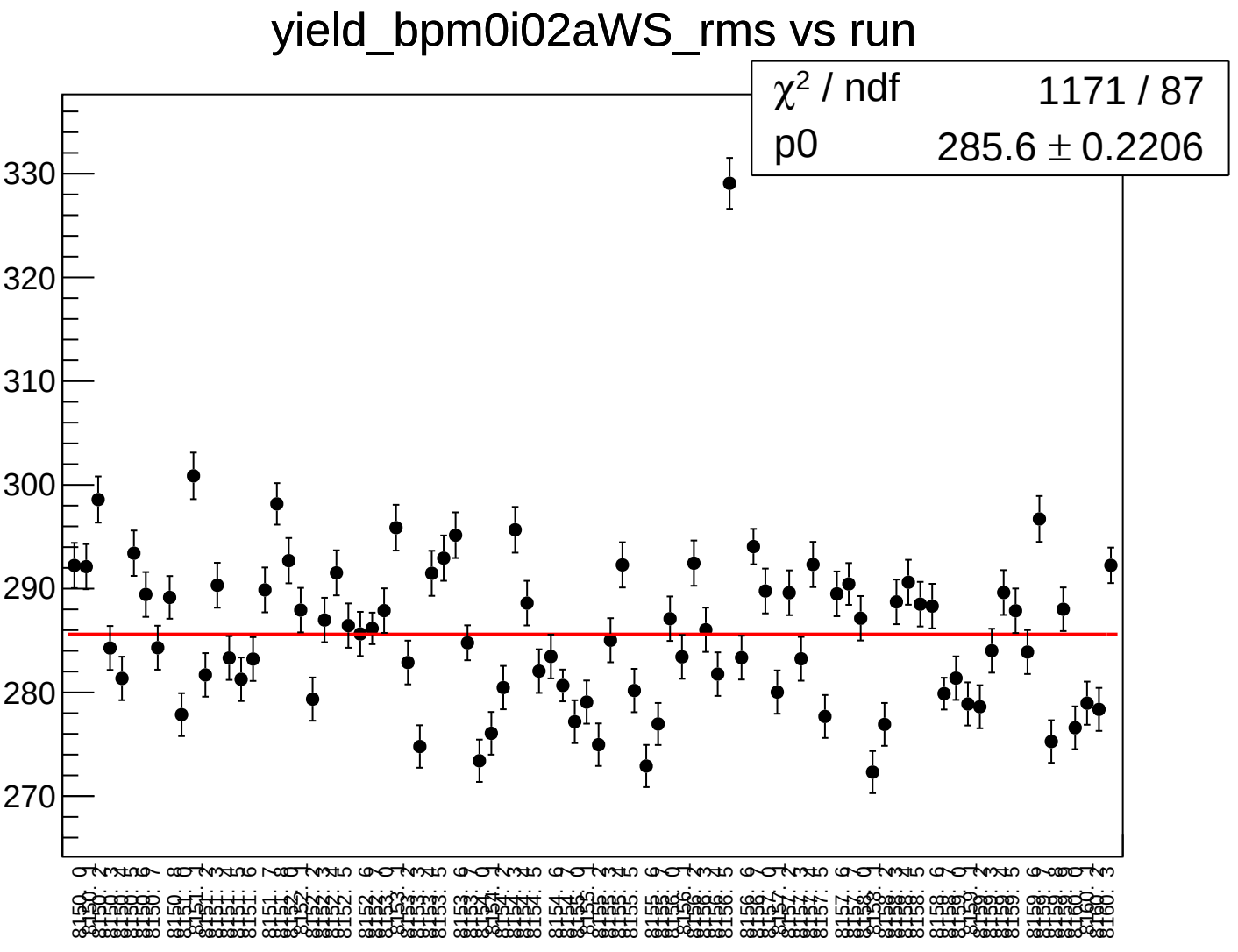

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 7.41e+04 / 87
p0 1.383e+05 ± 0.2907
138.5
138.45
138.4
138.35
138.3
138.25
138.2
138.15
pull
Entries 88
Mean −489.2
Std Dev 0
60
40
20
0
−20
−40
−60

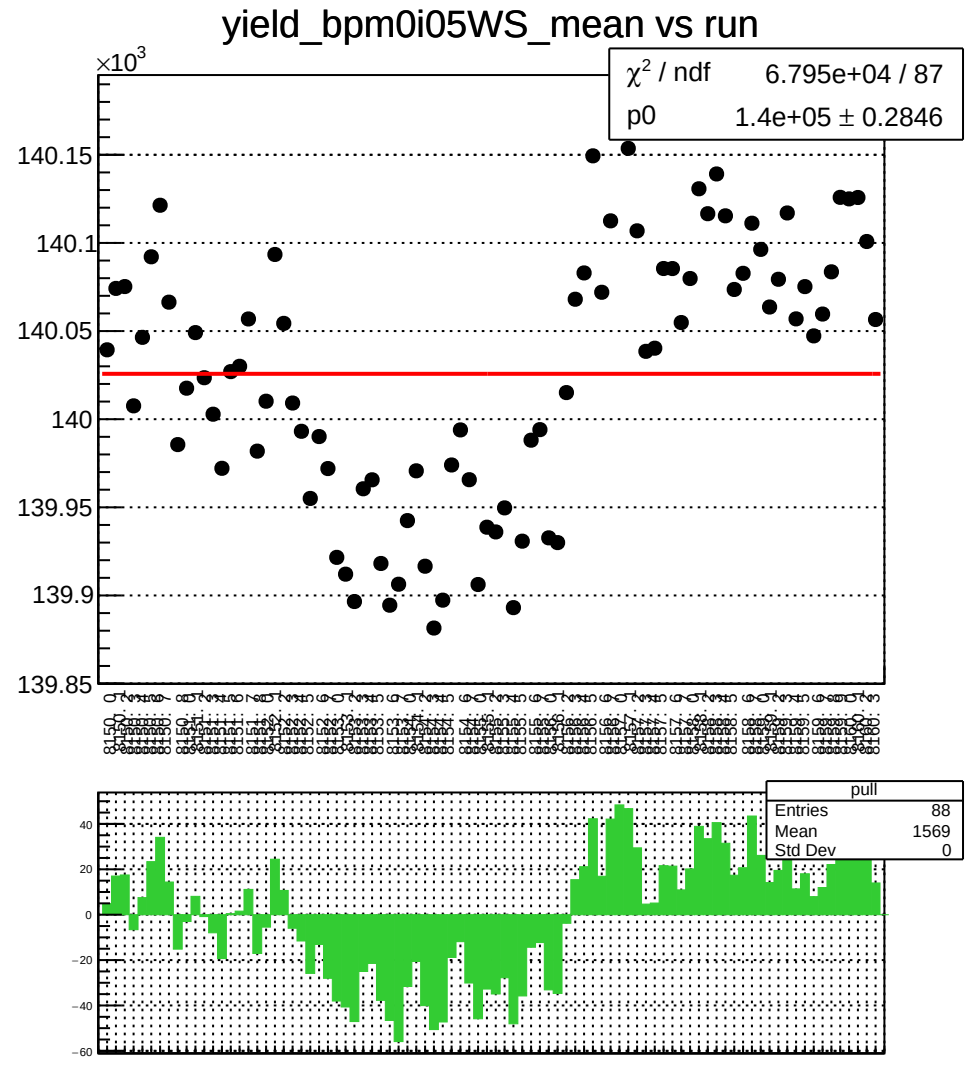

pull1D
Entries 88
Mean −0.3042
Std Dev 4.626
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

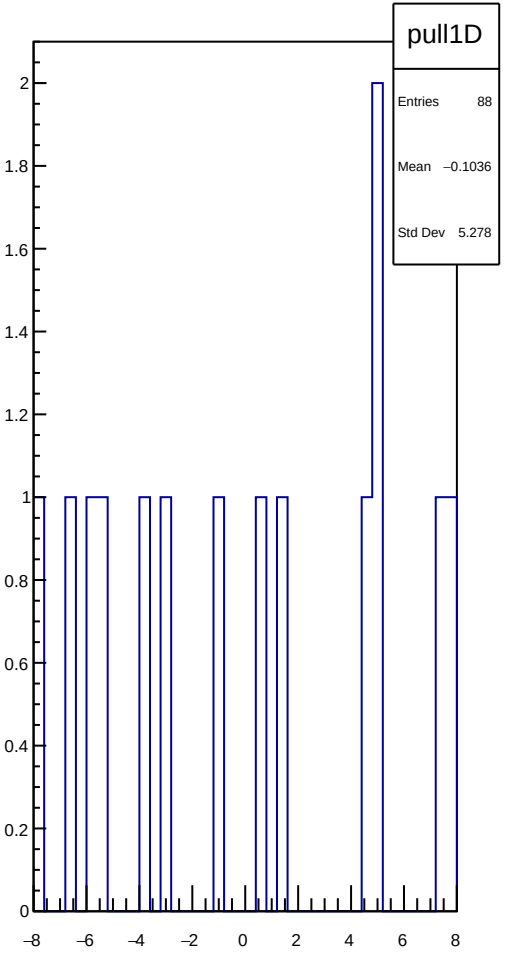

yield_bpm0i02WS_rms vs run
χ² / ndf 842.1 / 87
p0 266.1 ± 0.2056
285
280
275
270
265
260
255
250

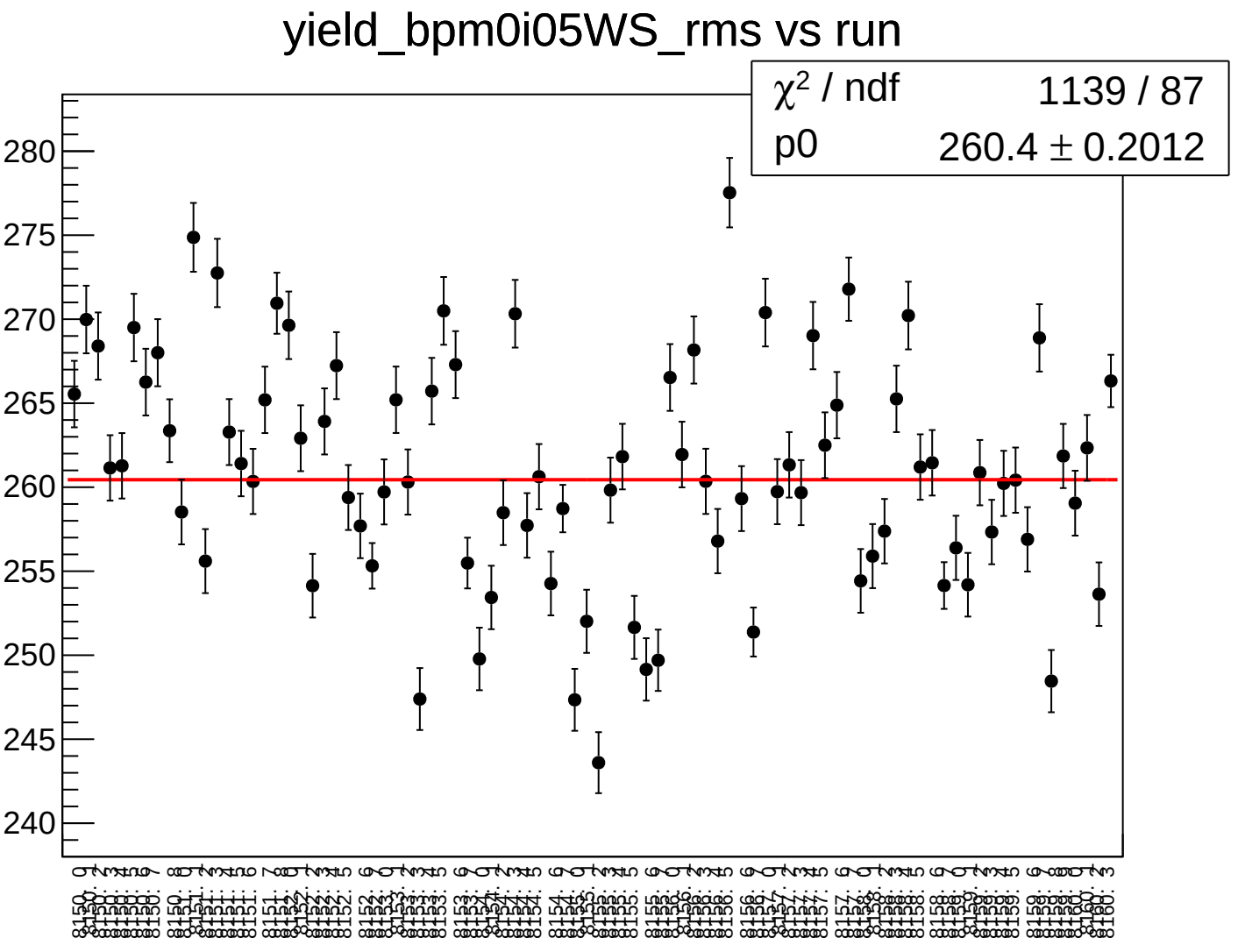

yield_bpm0i02aWS_mean vs run
×10^3
χ^2 / ndf 2.312e+05 / 87
p0 1.412e+05 ± 0.312
141.5
141.4
141.3
141.2
141.1
141
140.9
pull
Entries 88
Mean −25.22
Std Dev 178.6
120
100
80
60
40
20
0
−20
−40
−60
−80

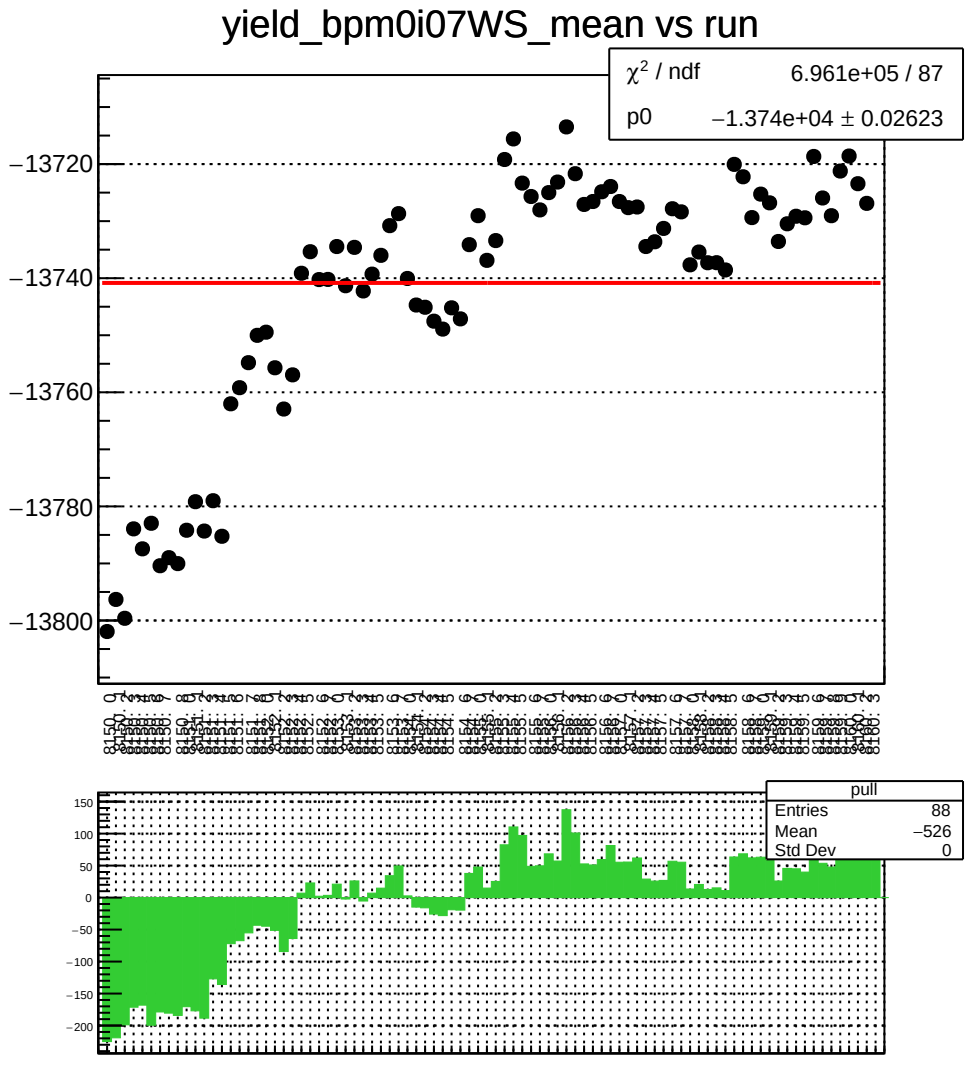

pull1D
Entries 88
Mean 2.267
Std Dev 2.74
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

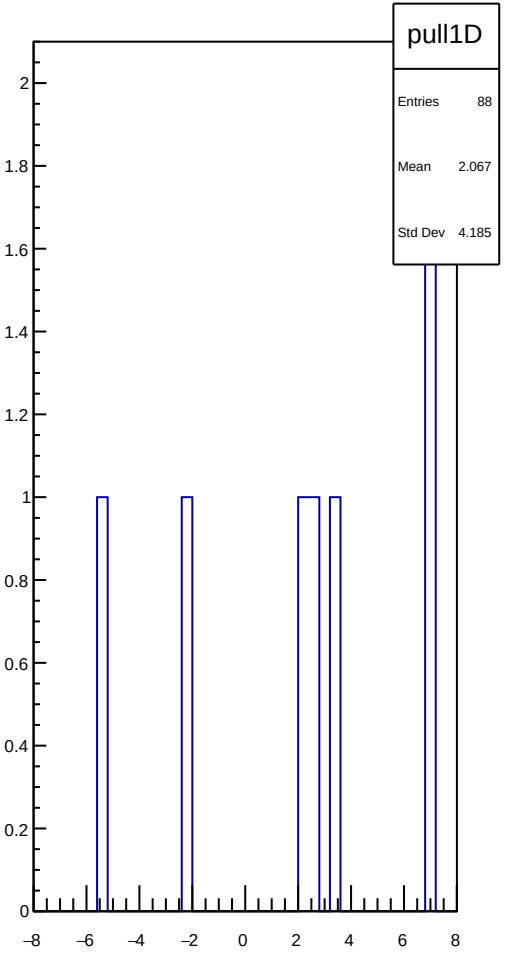

yield_bpm0i02aWS_rms vs run
χ² / ndf 1171 / 87
p0 285.6 ± 0.2206
330
320
310
300
290
280
270

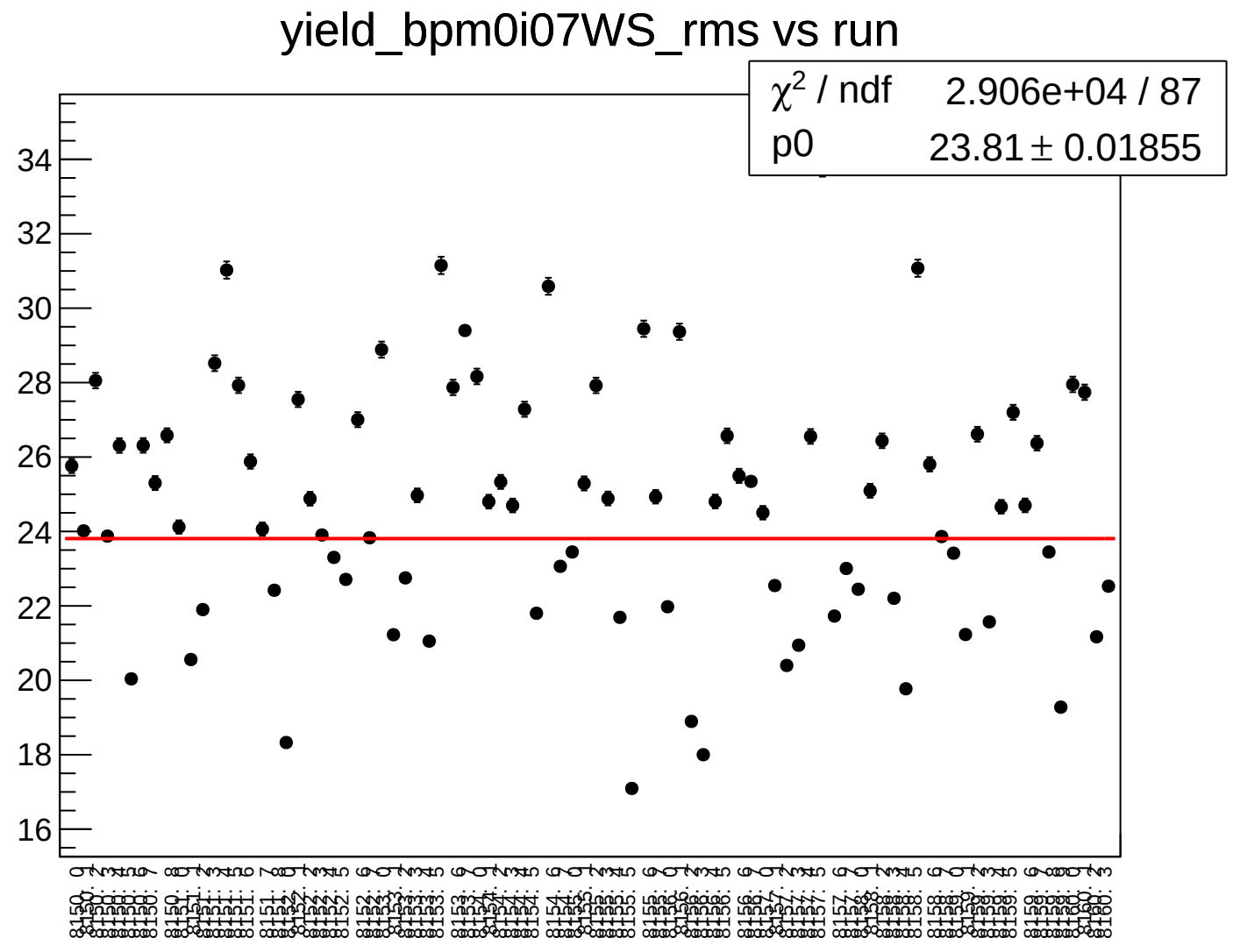

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 6.795e+04 / 87
p0 1.4e+05 ± 0.2846
140.15
140.1
140.05
140
139.95
139.9
139.85
pull
Entries 88
Mean 1569
Std Dev 0
40
20
0
−20
−40
−60

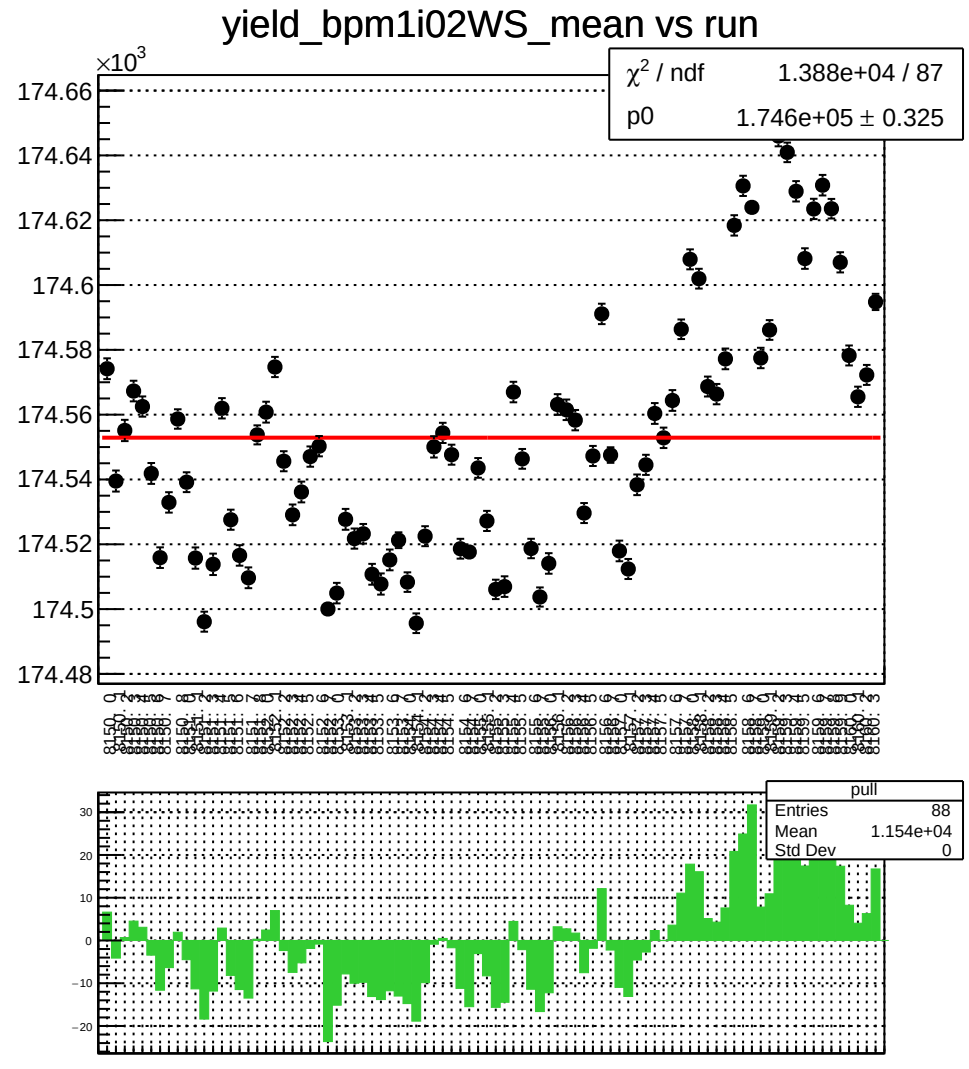

pull1D
Entries 88
Mean −0.1036
Std Dev 5.278
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

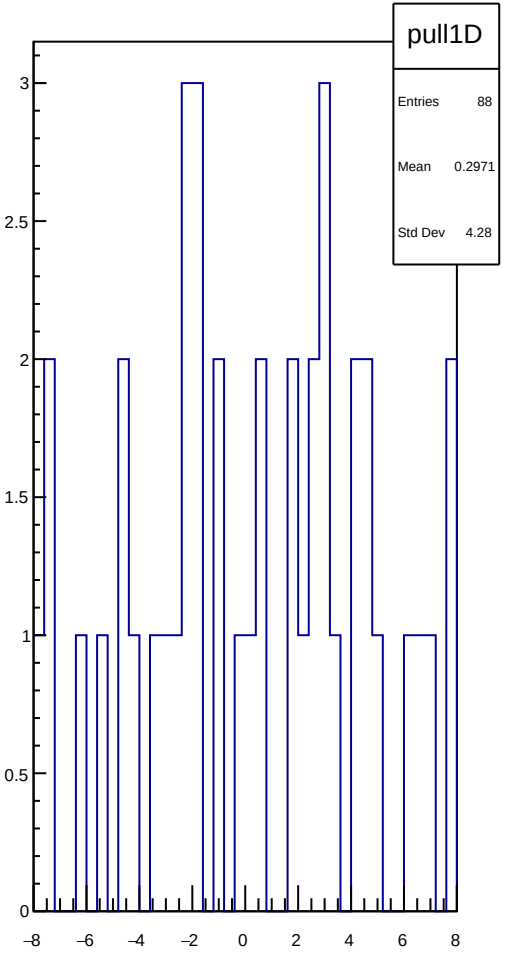

yield_bpm0i05WS_rms vs run
χ² / ndf 1139 / 87
p0 260.4 ± 0.2012
280
275
270
265
260
255
250
245
240

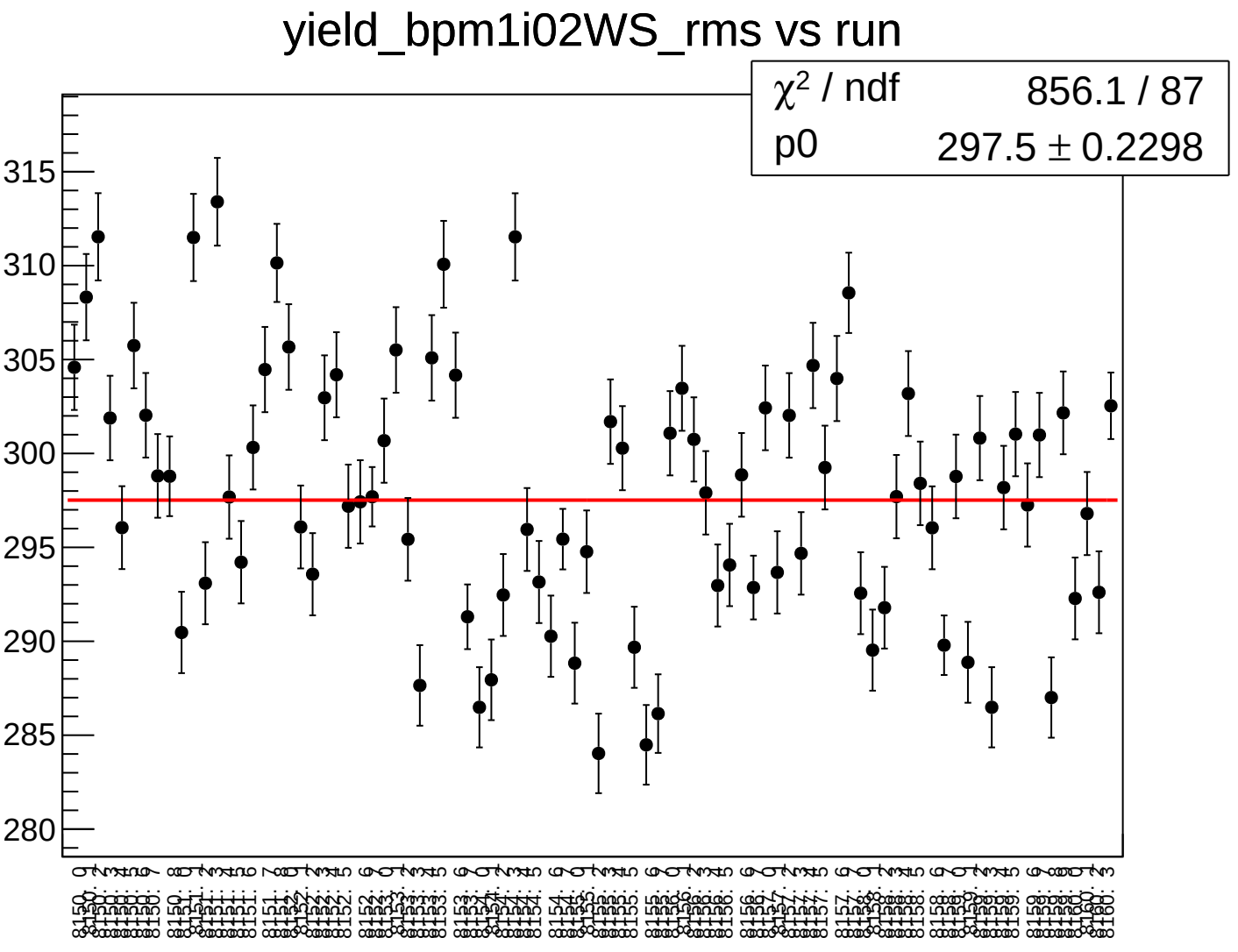

yield_bpm0i07WS_mean vs run
χ² / ndf 6.961e+05 / 87
p0 −1.374e+04 ± 0.02623
−13720
−13740
−13760
−13780
−13800
pull
Entries 88
Mean −526
Std Dev 0
150
100
50
0
−50
−100
−150
−200

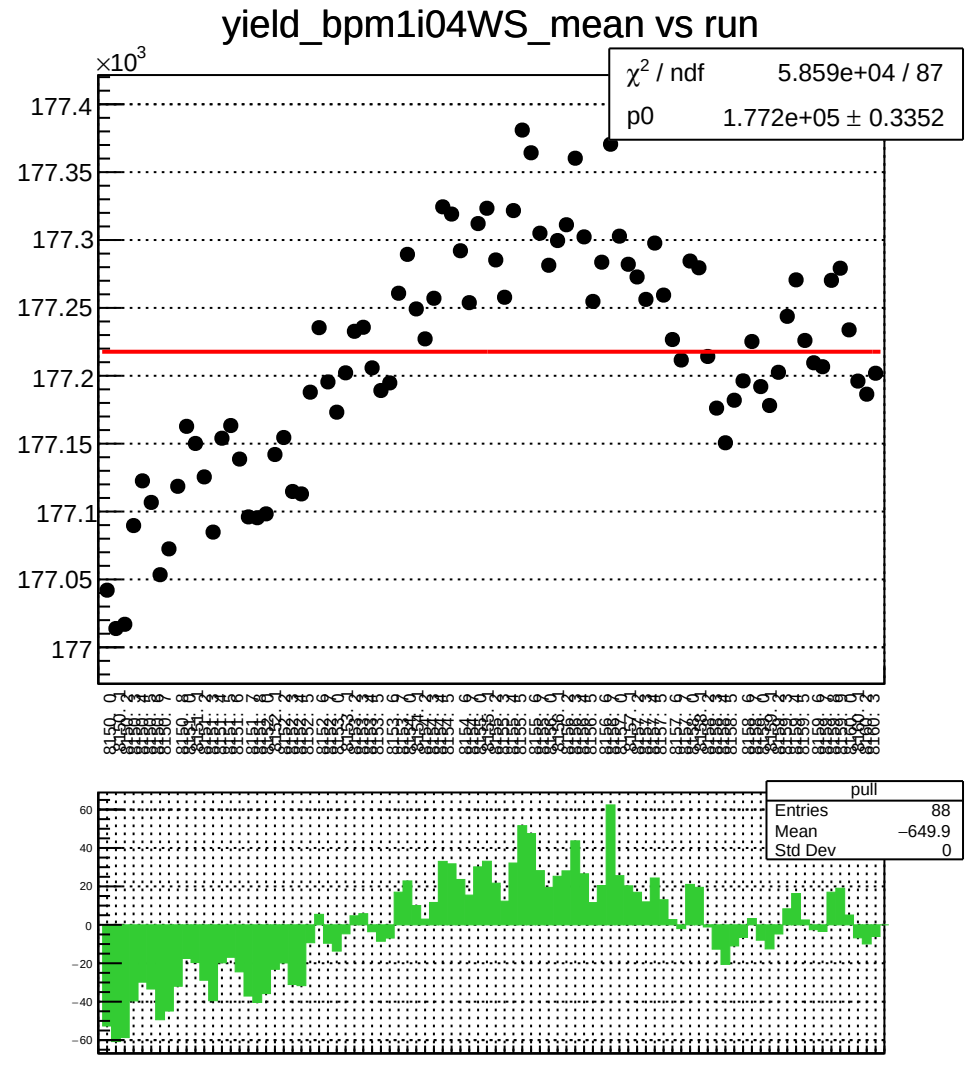

pull1D
Entries 88
Mean 2.067
Std Dev 4.185
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

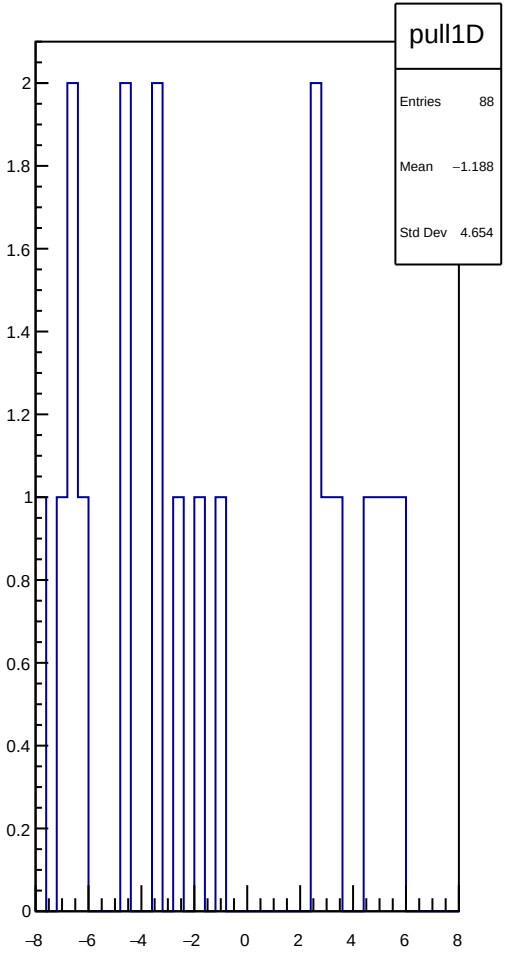

yield_bpm0i07WS_rms vs run
χ^2 / ndf 2.906e+04 / 87
p0 23.81 ± 0.01855
34
32
30
28
26
24
22
20
18
16

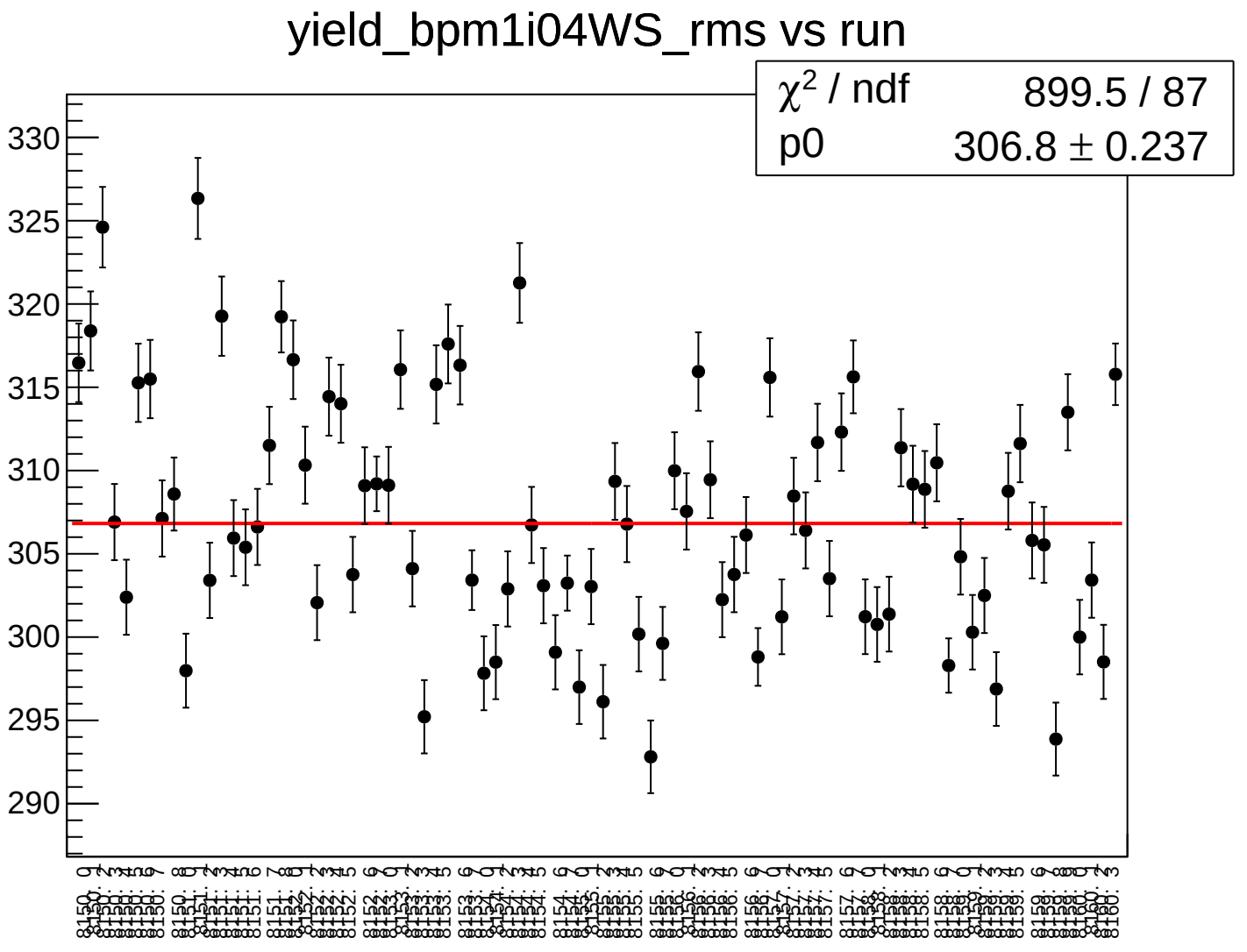

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 1.388e+04 / 87
p0 1.746e+05 ± 0.325
174.66
174.64
174.62
174.6
174.58
174.56
174.54
174.52
174.5
174.48
pull
Entries 88
Mean 1.154e+04
Std Dev 0
30
20
10
0
−10
−20

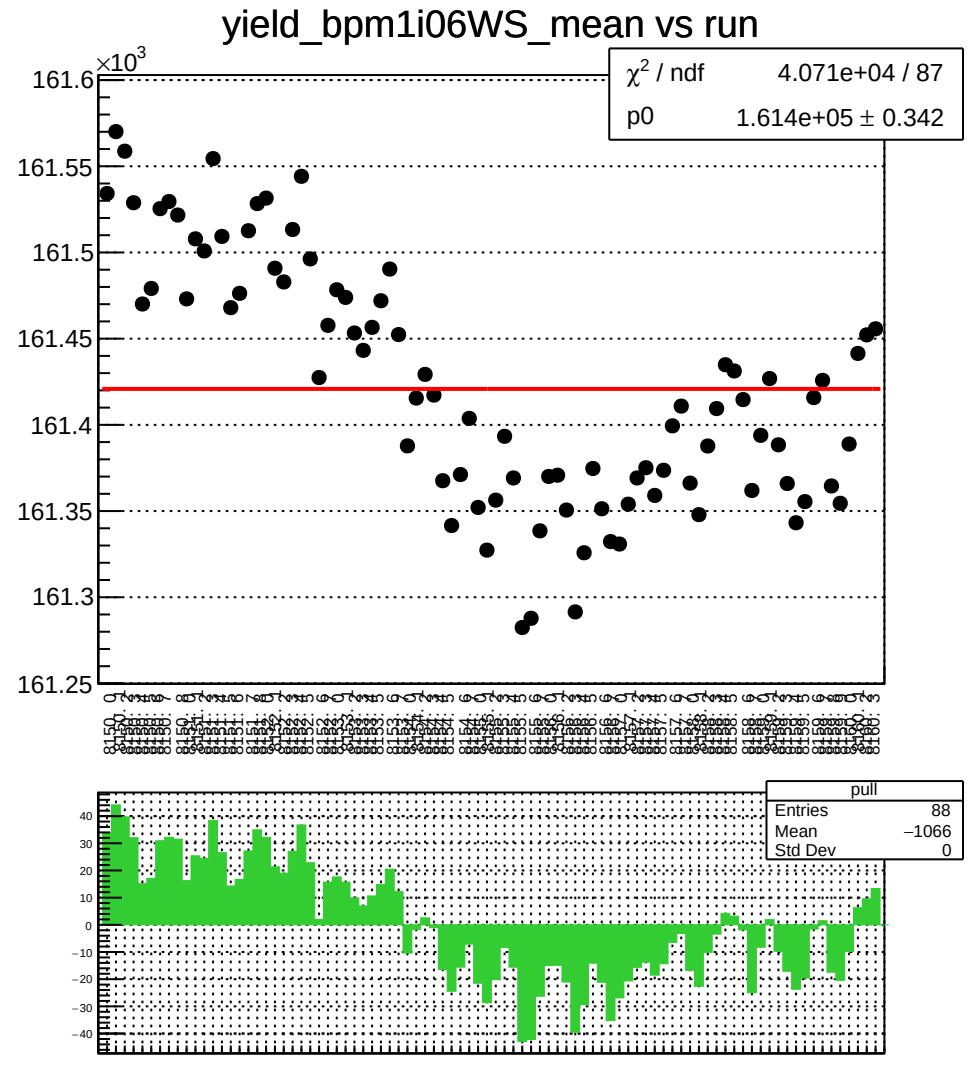

pull1D
Entries 88
Mean 0.2971
Std Dev 4.28
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

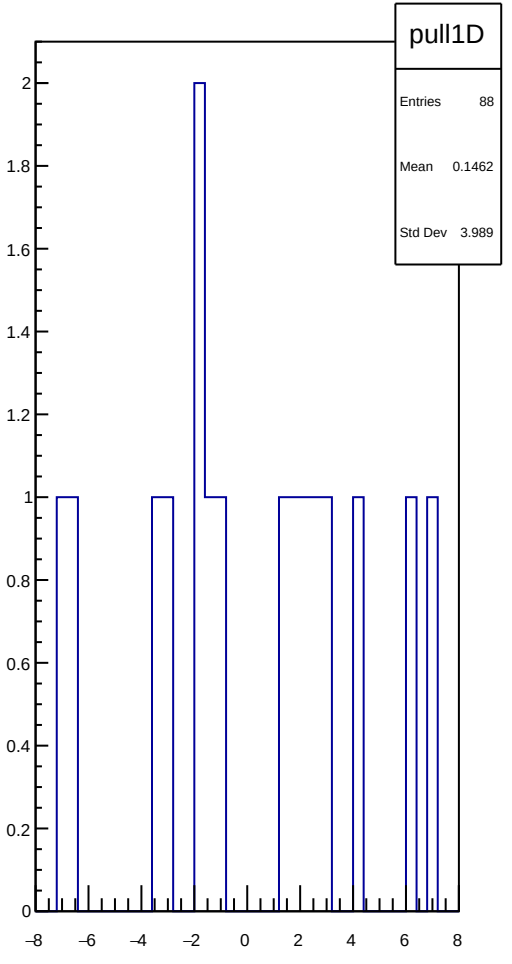

yield_bpm1i02WS_rms vs run
χ² / ndf 856.1 / 87
p0 297.5 ± 0.2298
315
310
305
300
295
290
285
280

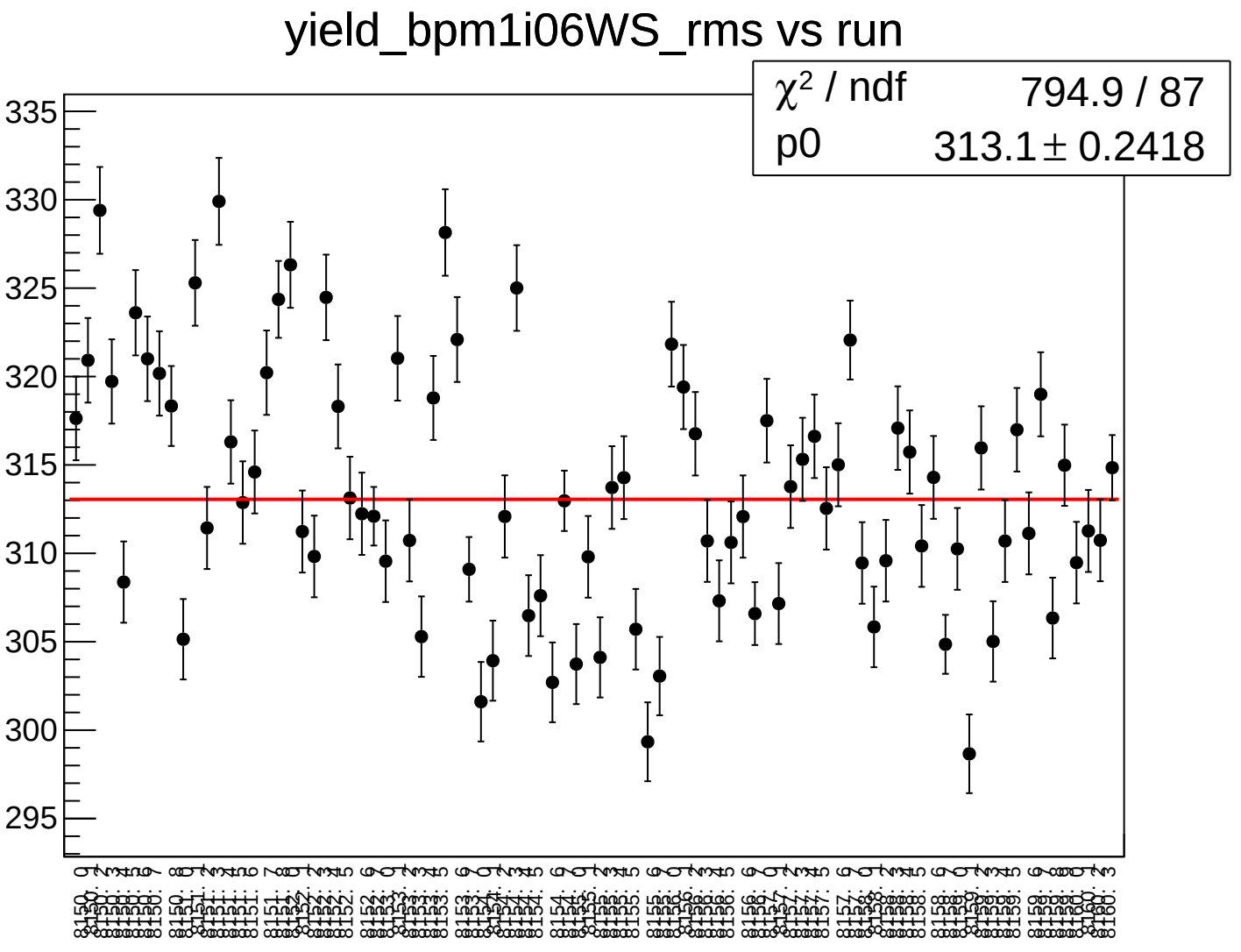

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 5.859e+04 / 87
p0 1.772e+05 ± 0.3352
177.4
177.35
177.3
177.25
177.2
177.15
177.1
177.05
177
pull
Entries 88
Mean −649.9
Std Dev 0
60
40
20
0
−20
−40
−60

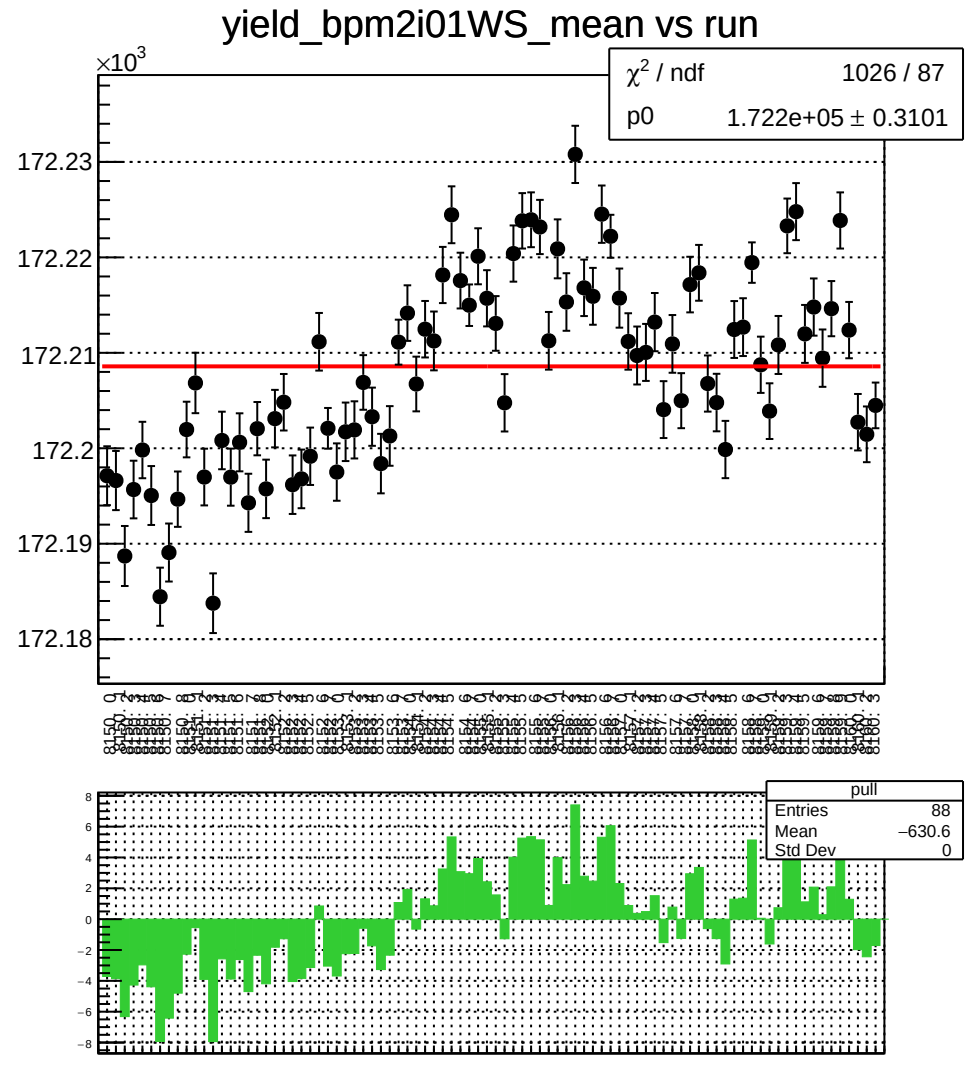

pull1D
Entries 88
Mean −1.188
Std Dev 4.654
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

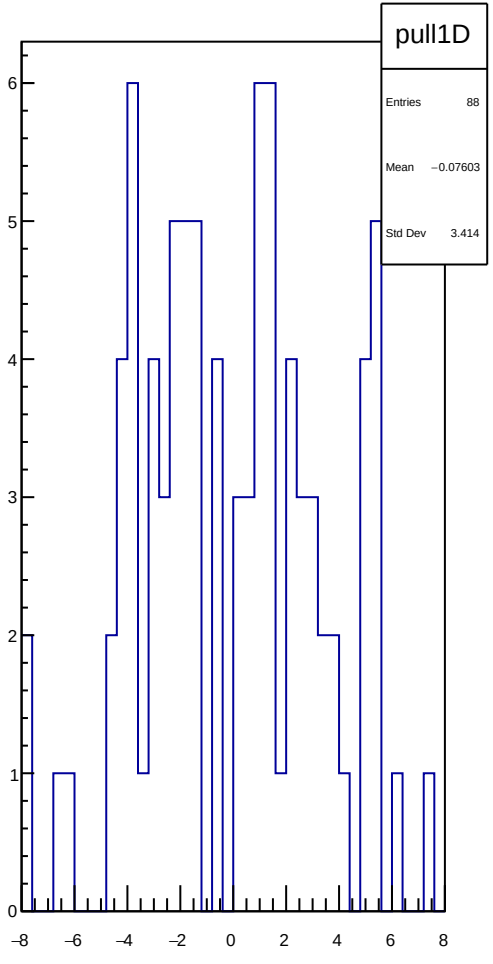

yield_bpm1i04WS_rms vs run
χ² / ndf 899.5 / 87
p0 306.8 ± 0.237
330
325
320
315
310
305
300
295
290

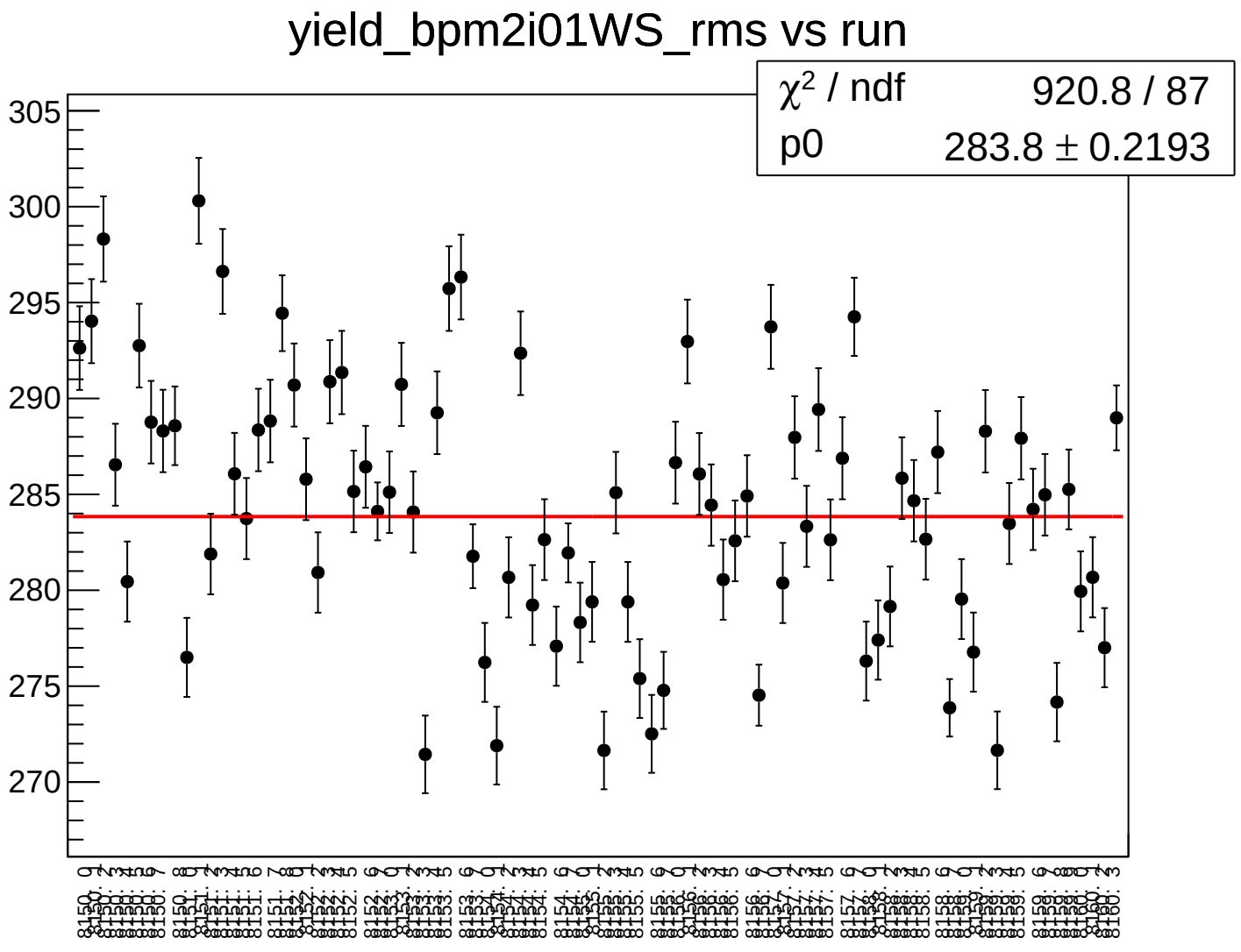

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 4.071e+04 / 87
p0 1.614e+05 ± 0.342
161.6
161.55
161.5
161.45
161.4
161.35
161.3
161.25
pull
Entries 88
Mean −1066
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40

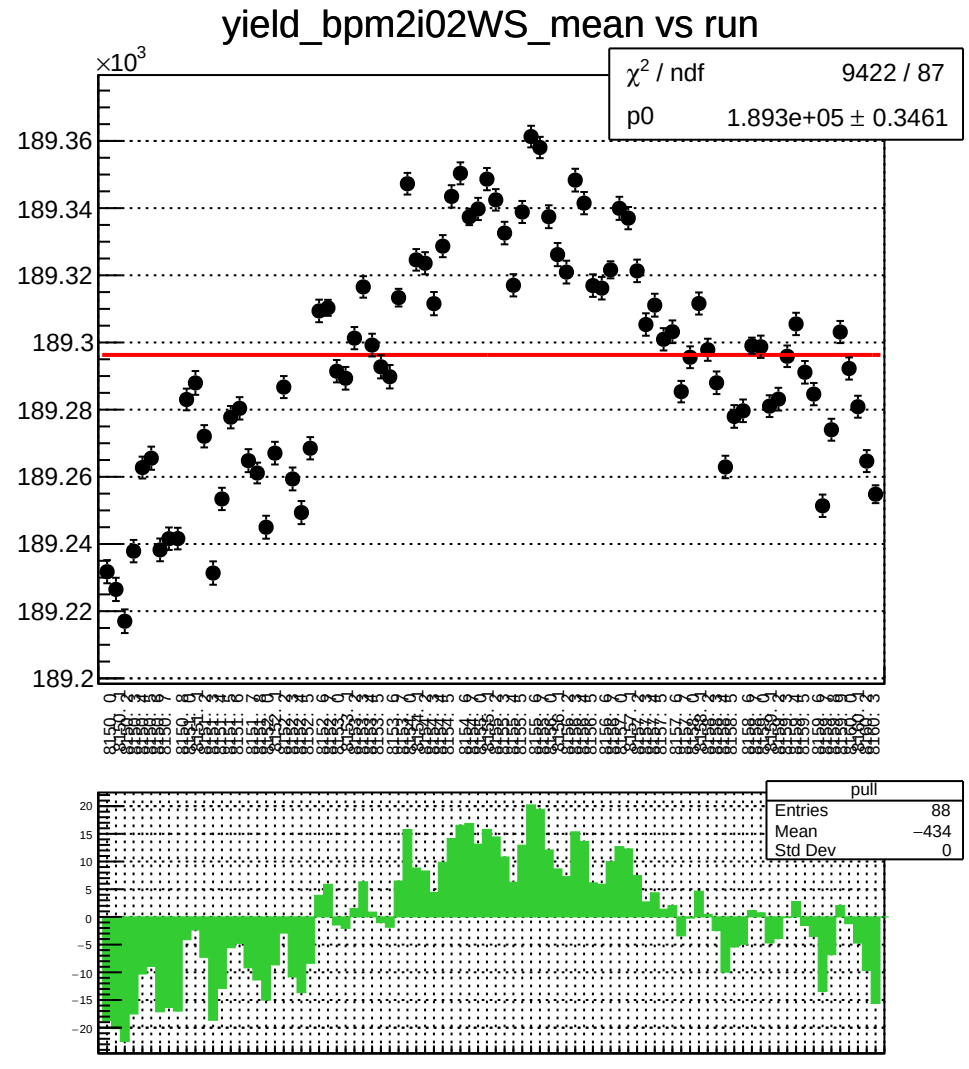

pull1D
Entries 88
Mean 0.1462
Std Dev 3.989
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

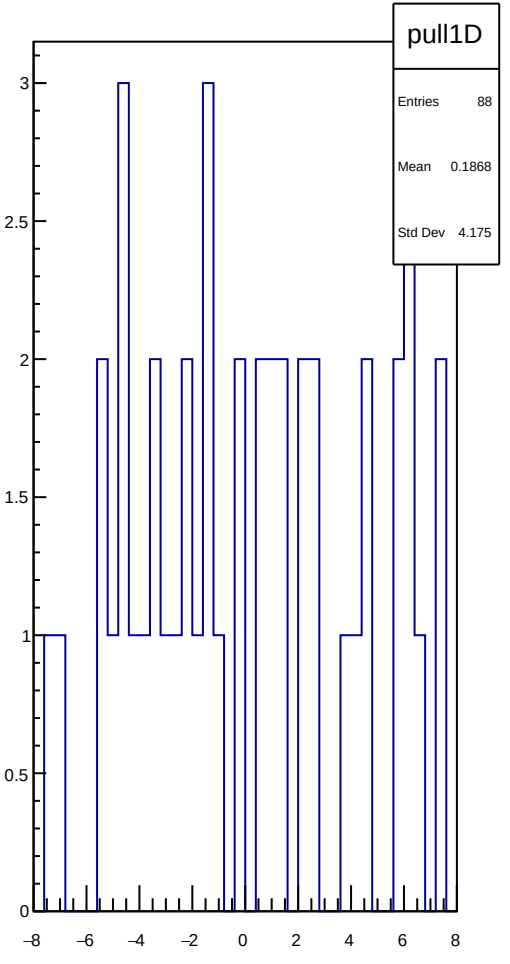

yield_bpm1i06WS_rms vs run
χ² / ndf 794.9 / 87
p0 313.1 ± 0.2418
335
330
325
320
315
310
305
300
295

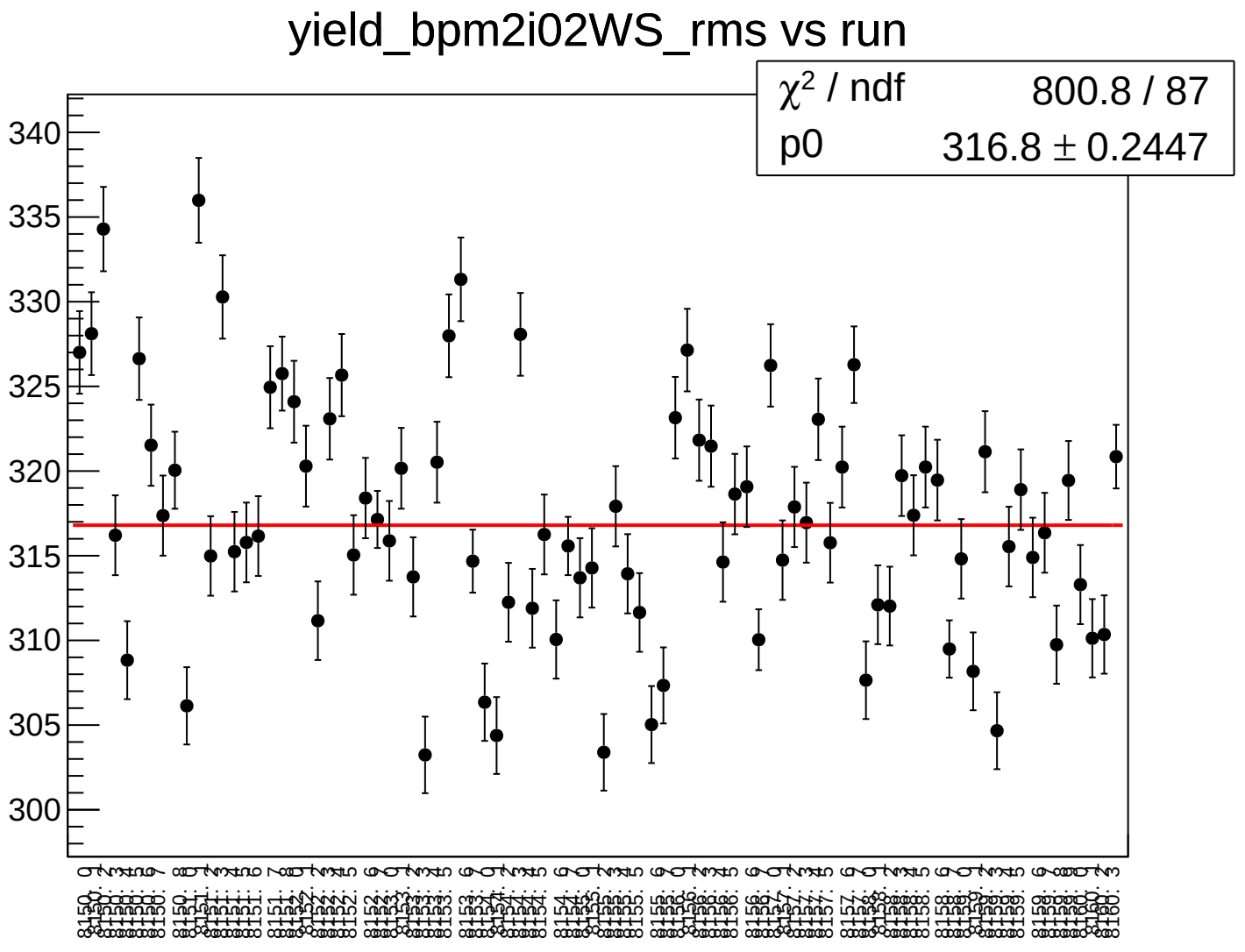

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1026 / 87
p0 1.722e+05 ± 0.3101
172.23
172.22
172.21
172.2
172.19
172.18
pull
Entries 88
Mean −630.6
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

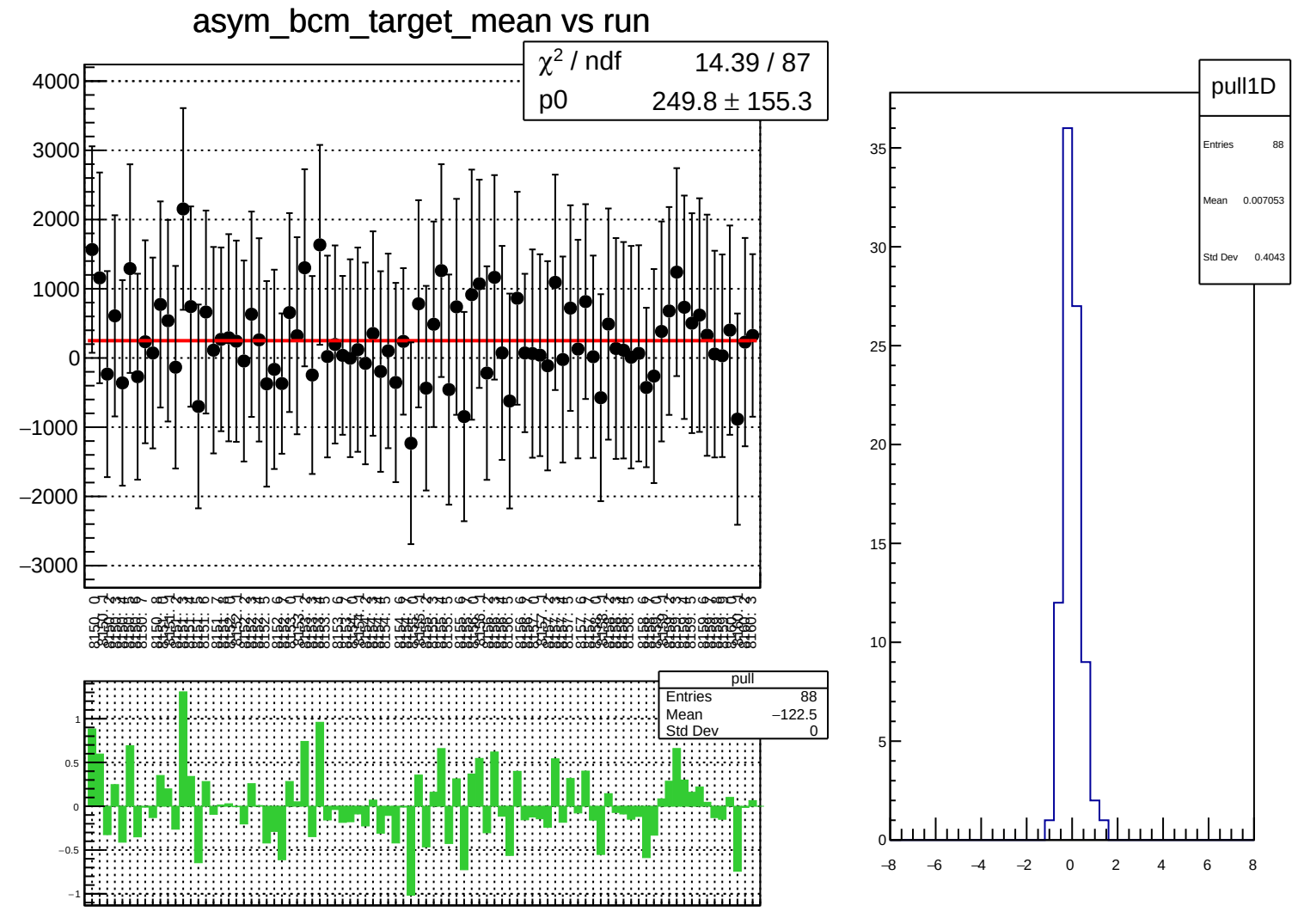

pull1D
Entries 88
Mean −0.07603
Std Dev 3.414
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

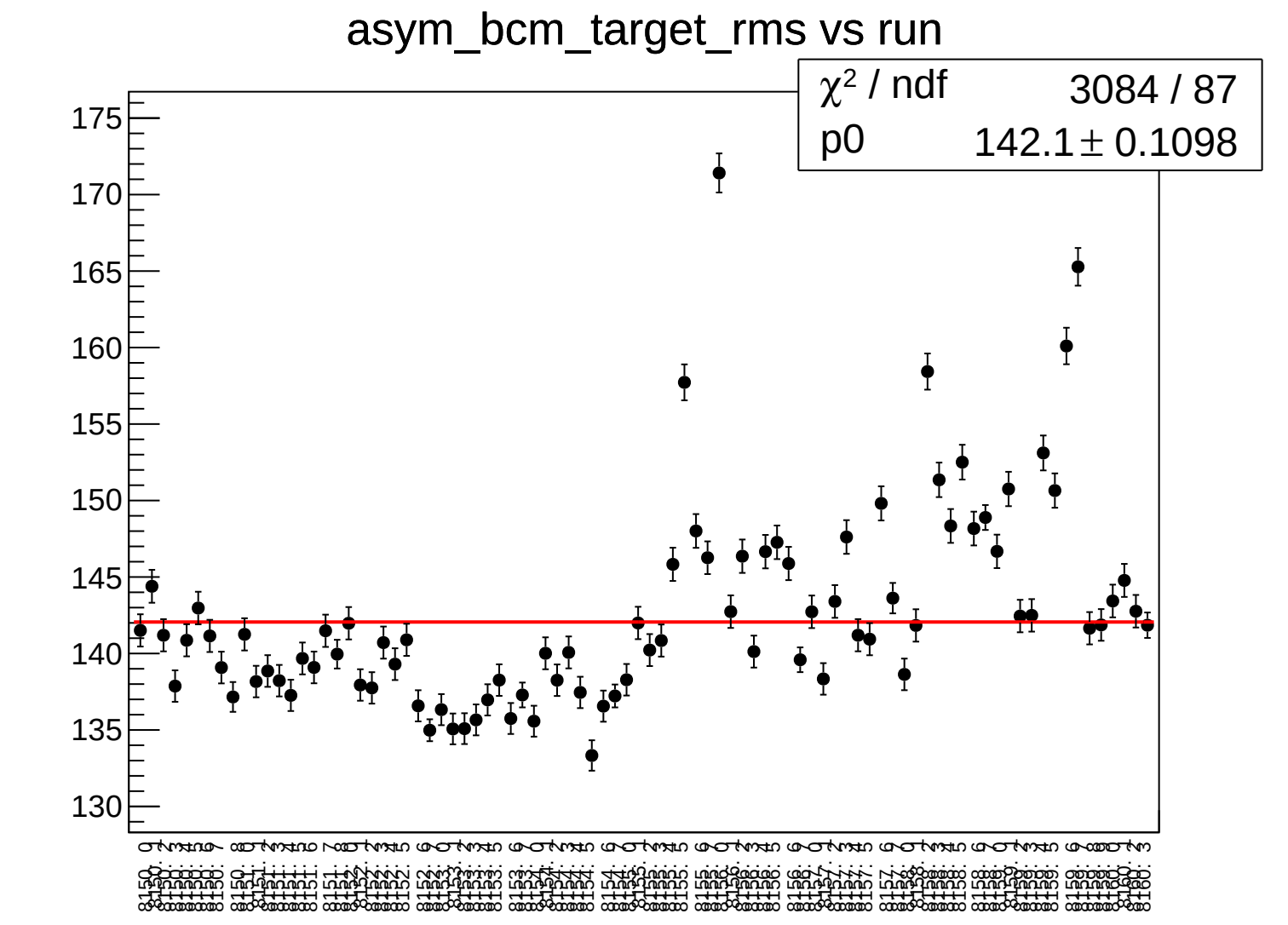

yield_bpm2i01WS_rms vs run
χ² / ndf 920.8 / 87
p0 283.8 ± 0.2193
305
300
295
290
285
280
275
270

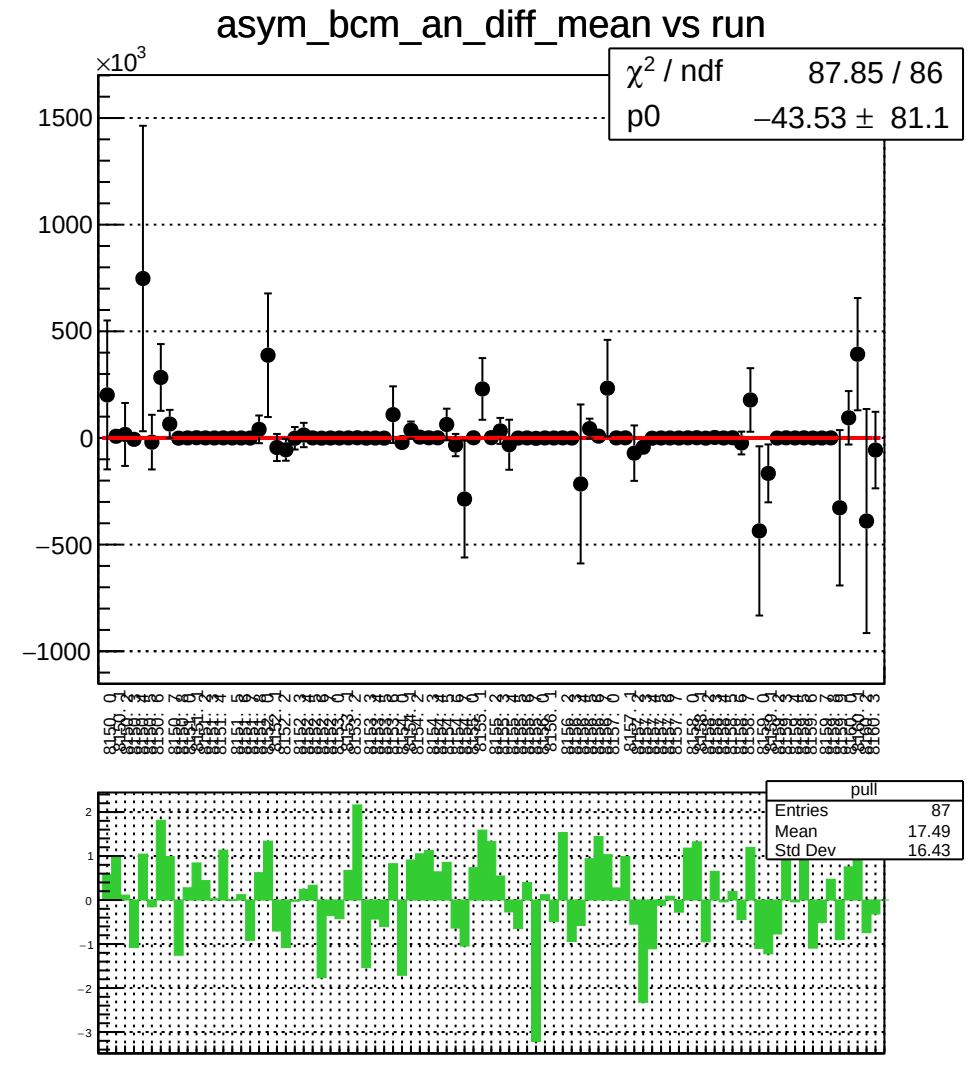

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 9422 / 87
p0 1.893e+05 ± 0.3461
189.36
189.34
189.32
189.3
189.28
189.26
189.24
189.22
189.2
pull
Entries 88
Mean −434
Std Dev 0
20
15
10
5
0
−5
−10
−15
−20

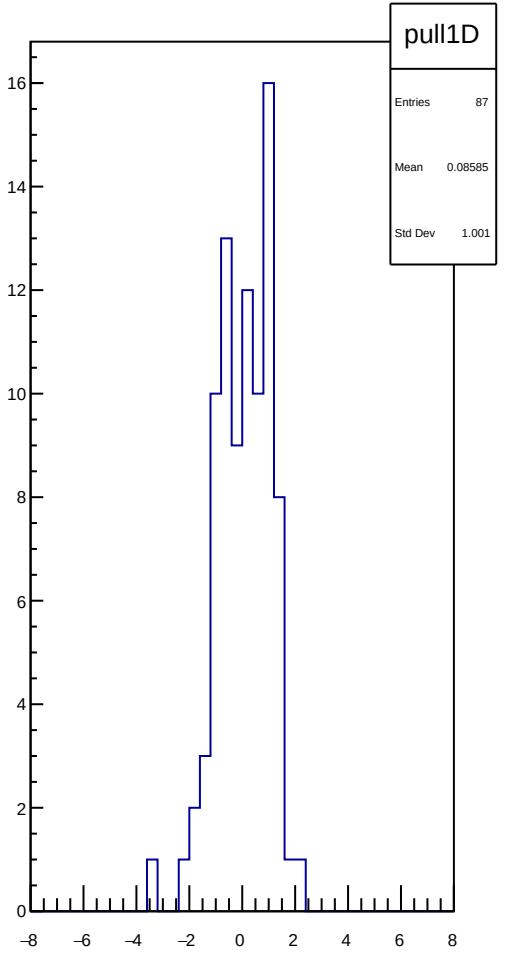

pull1D
Entries 88
Mean 0.1868
Std Dev 4.175
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

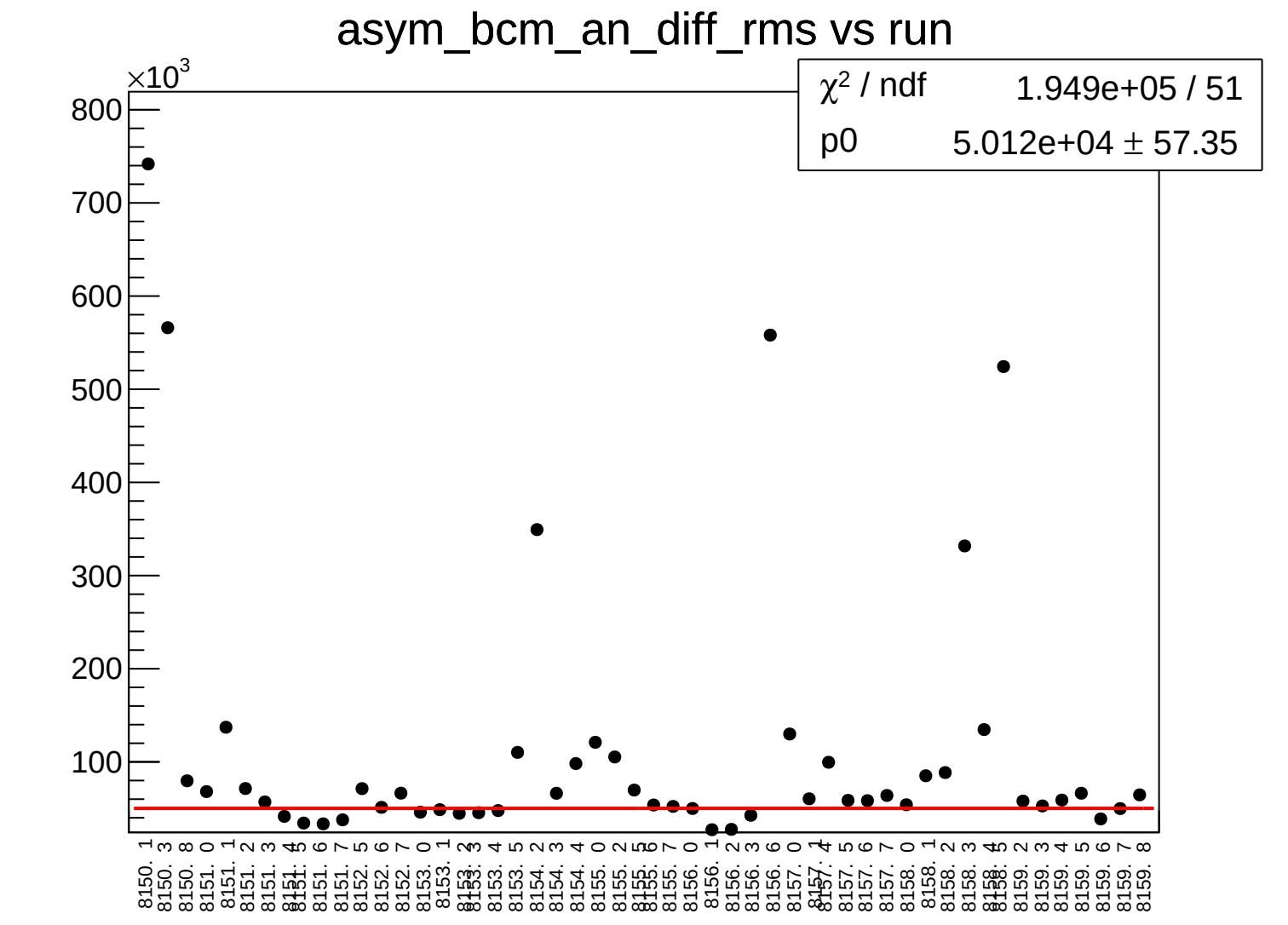

yield_bpm2i02WS_rms vs run
χ² / ndf 800.8 / 87
p0 316.8 ± 0.2447
340
335
330
325
320
315
310
305
300

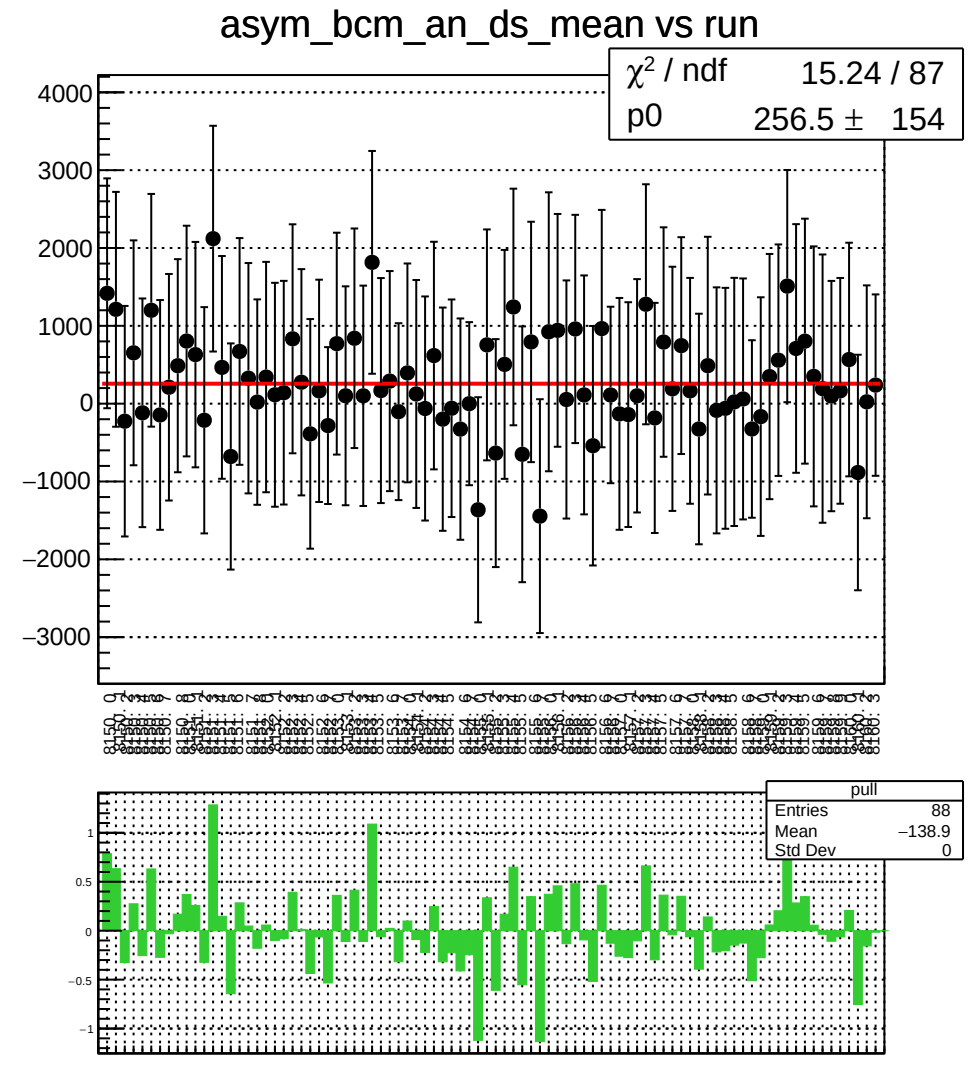

asym_bcm_target_mean vs run
χ² / ndf 14.39 / 87
p0 249.8 ± 155.3
pull
Entries 88
Mean −122.5
Std Dev 0
pull1D
Entries 88
Mean 0.007053
Std Dev 0.4043

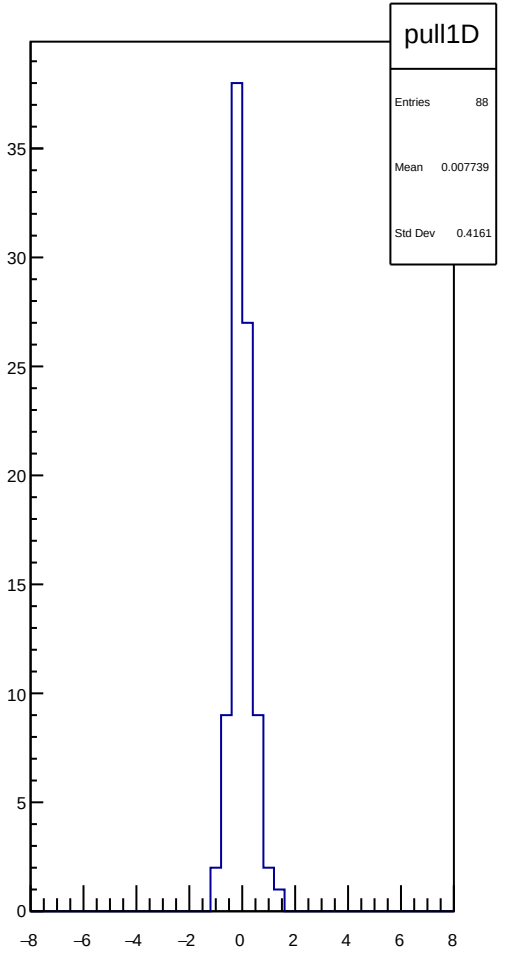

asym_bcm_target_rms vs run
χ² / ndf 3084 / 87
p0 142.1 ± 0.1098
175
170
165
160
155
150
145
140
135
130

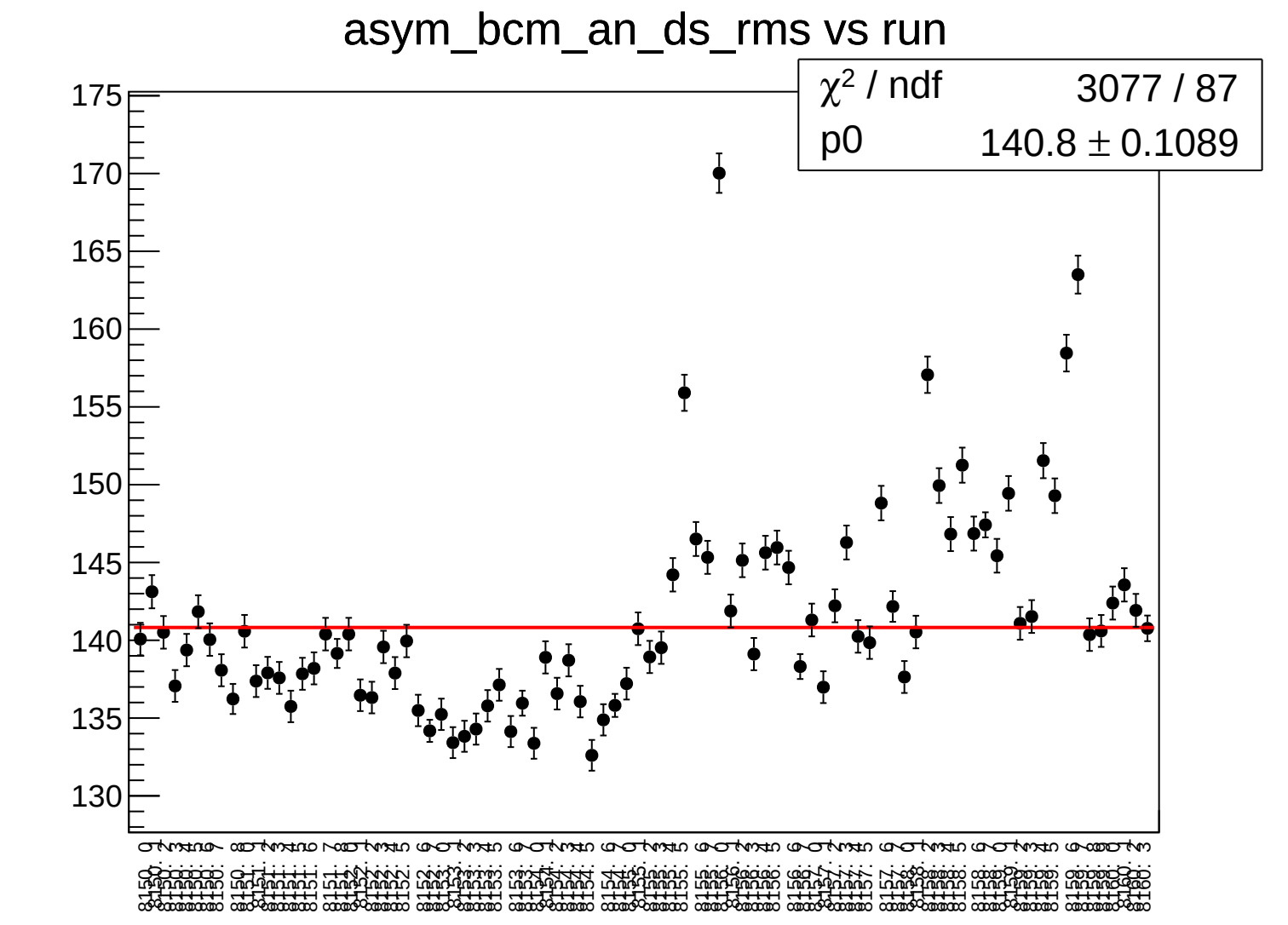

asym_bcm_an_diff_mean vs run
×10^3
χ^2 / ndf 87.85 / 86
p0 −43.53 ± 81.1
1500
1000
500
0
−500
−1000
pull
Entries 87
Mean 17.49
Std Dev 16.43
2
1
0
−1
−2
−3

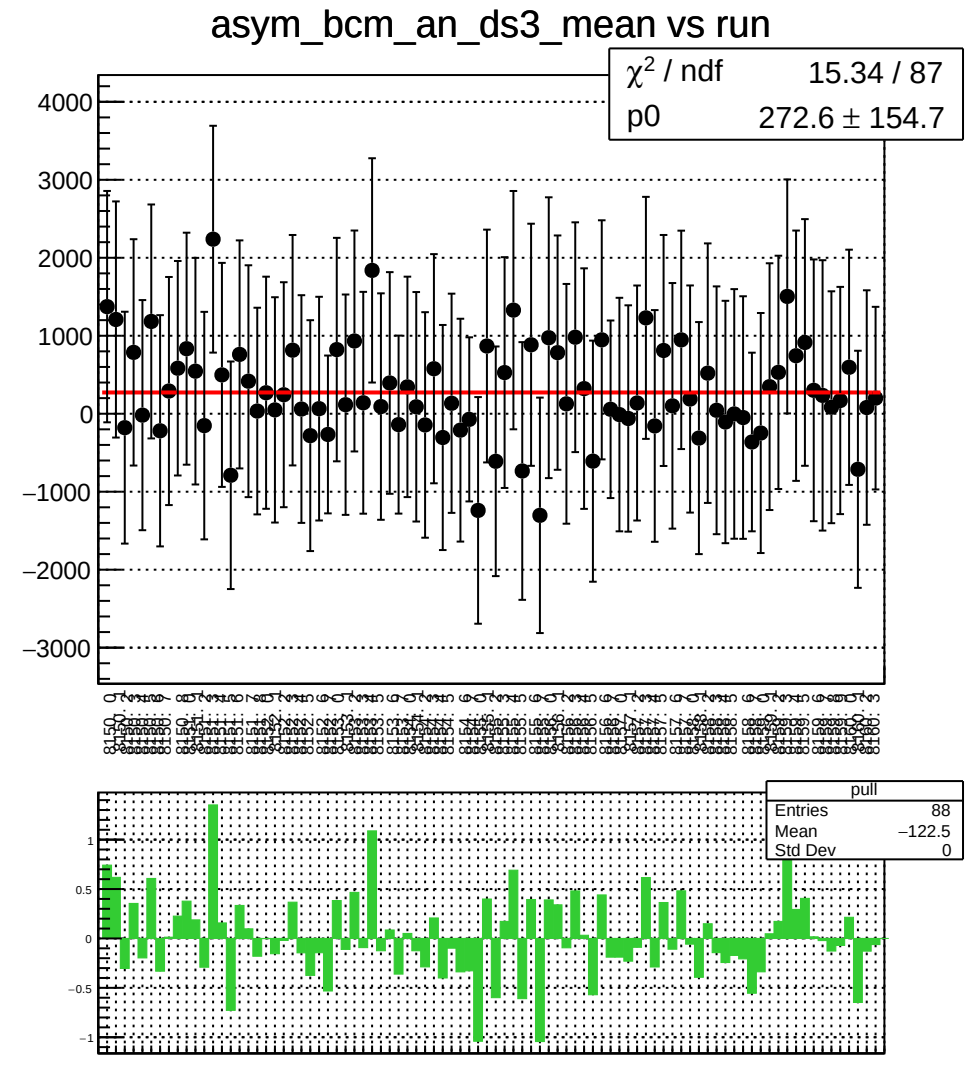

pull1D
Entries 87
Mean 0.08585
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

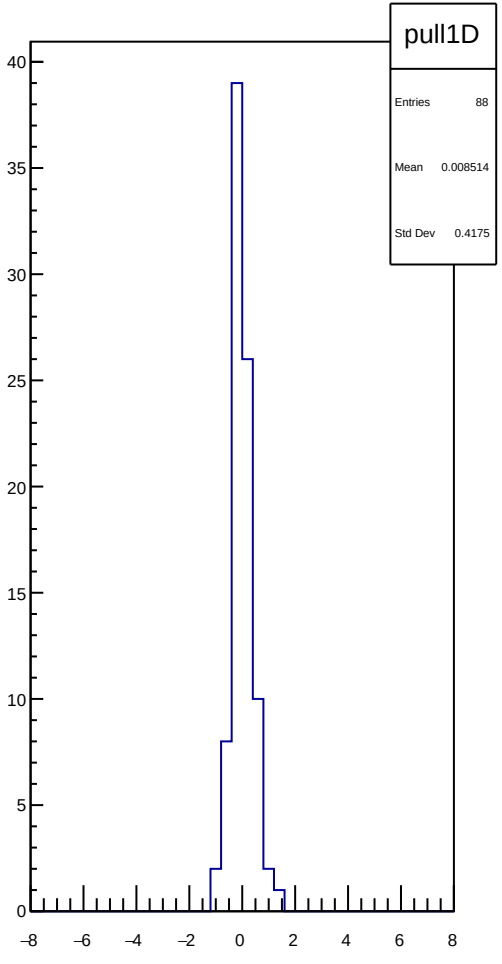

asym_bcm_an_diff_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.949e+05 / 51
p0 5.012e+04 ± 57.35
8150. 1
8150. 3
8150. 8
8151. 0
8151. 1
8151. 2
8151. 3
8151. 4
8151. 5
8151. 6
8151. 7
8152. 5
8152. 6
8152. 7
8153. 0
8153. 1
8153. 2
8153. 3
8153. 4
8153. 5
8154. 2
8154. 3
8154. 4
8155. 0
8155. 2
8155. 5
8155. 6
8155. 7
8156. 0
8156. 1
8156. 2
8156. 3
8156. 6
8157. 0
8157. 1
8157. 4
8157. 5
8157. 6
8157. 7
8158. 0
8158. 1
8158. 2
8158. 3
8158. 4
8158. 5
8159. 2
8159. 3
8159. 4
8159. 5
8159. 6
8159. 7
8159. 8

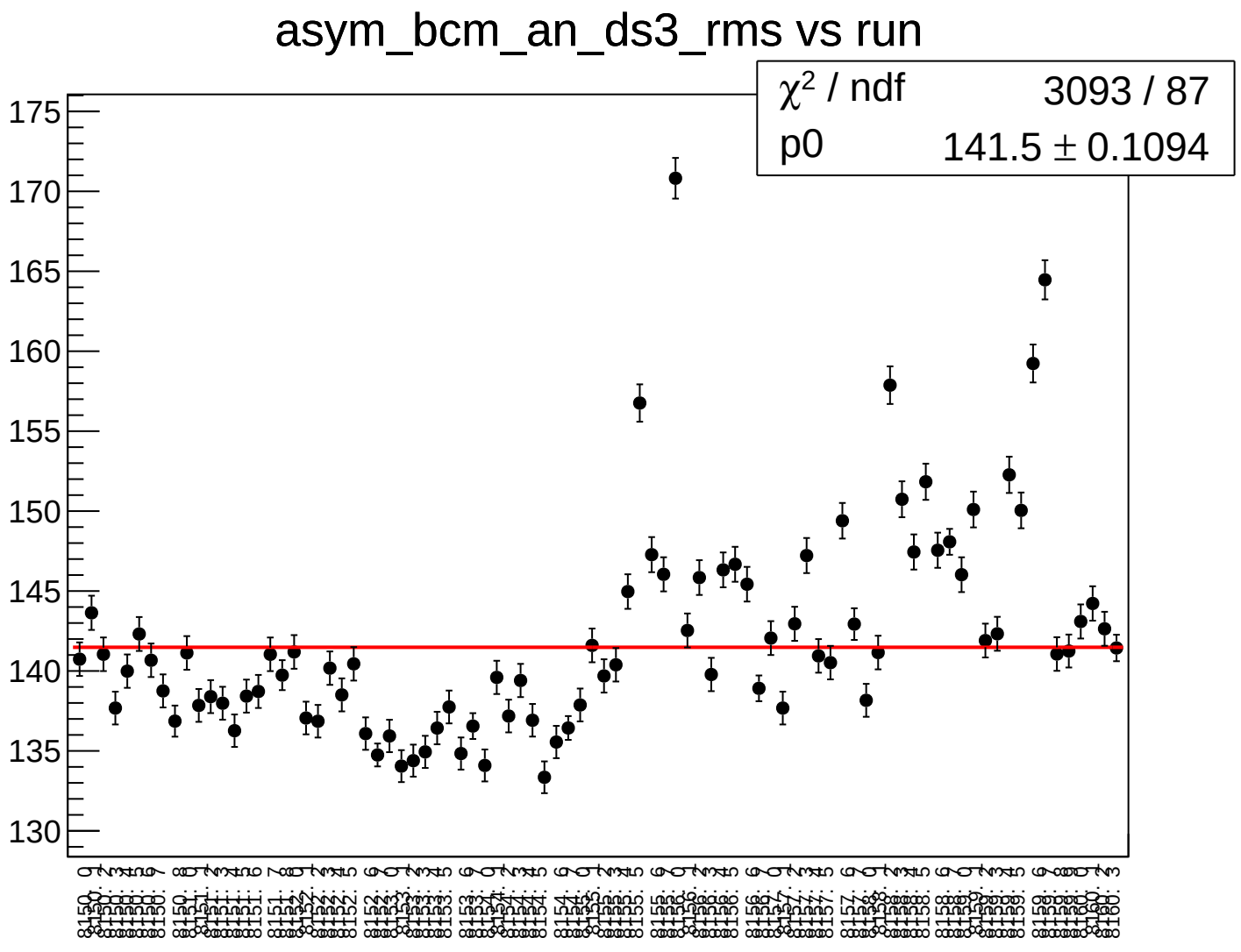

asym_bcm_an_ds_mean vs run
χ² / ndf 15.24 / 87
p0 256.5 ± 154
pull
Entries 88
Mean −138.9
Std Dev 0

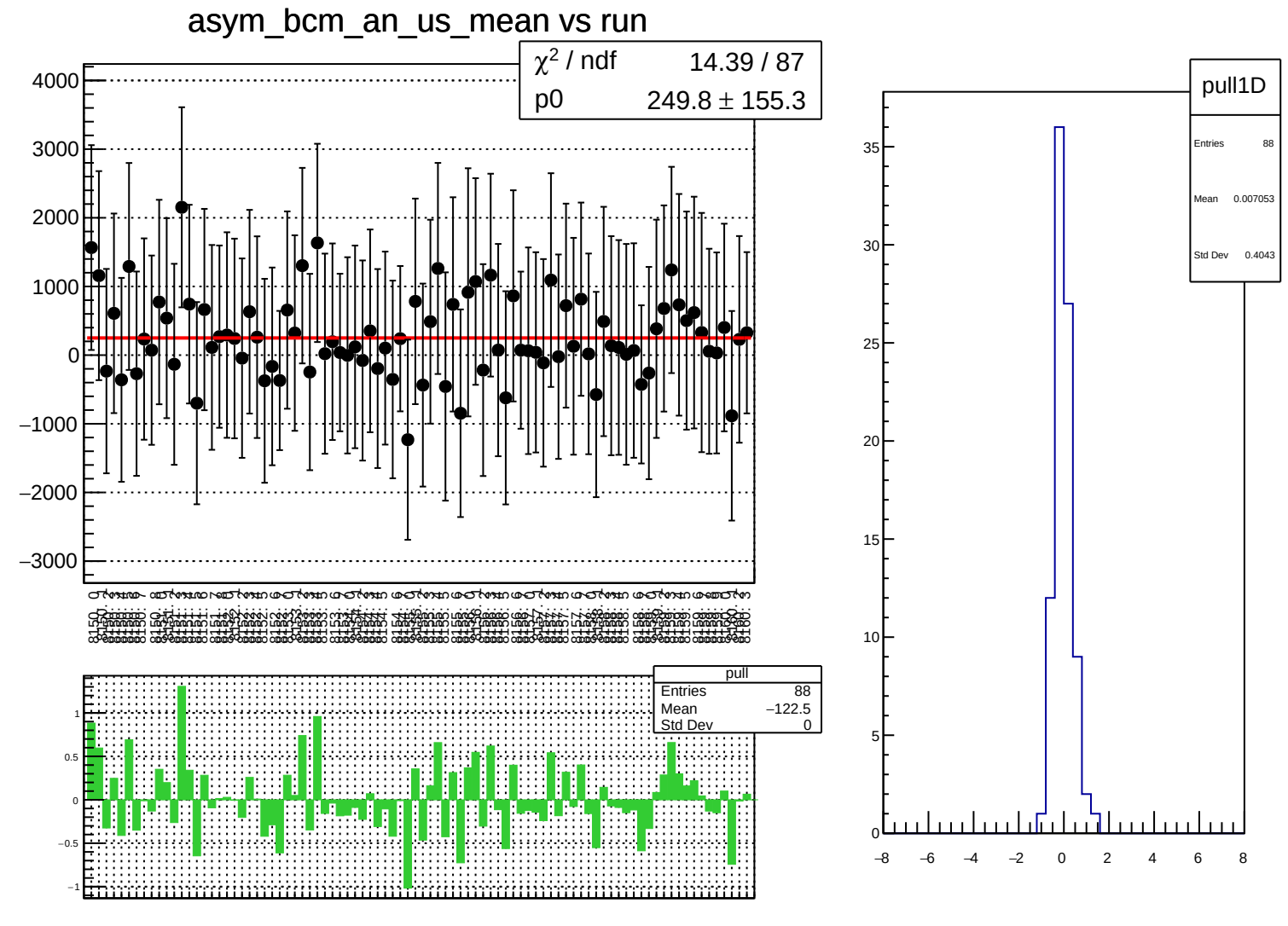

pull1D
Entries 88
Mean 0.007739
Std Dev 0.4161

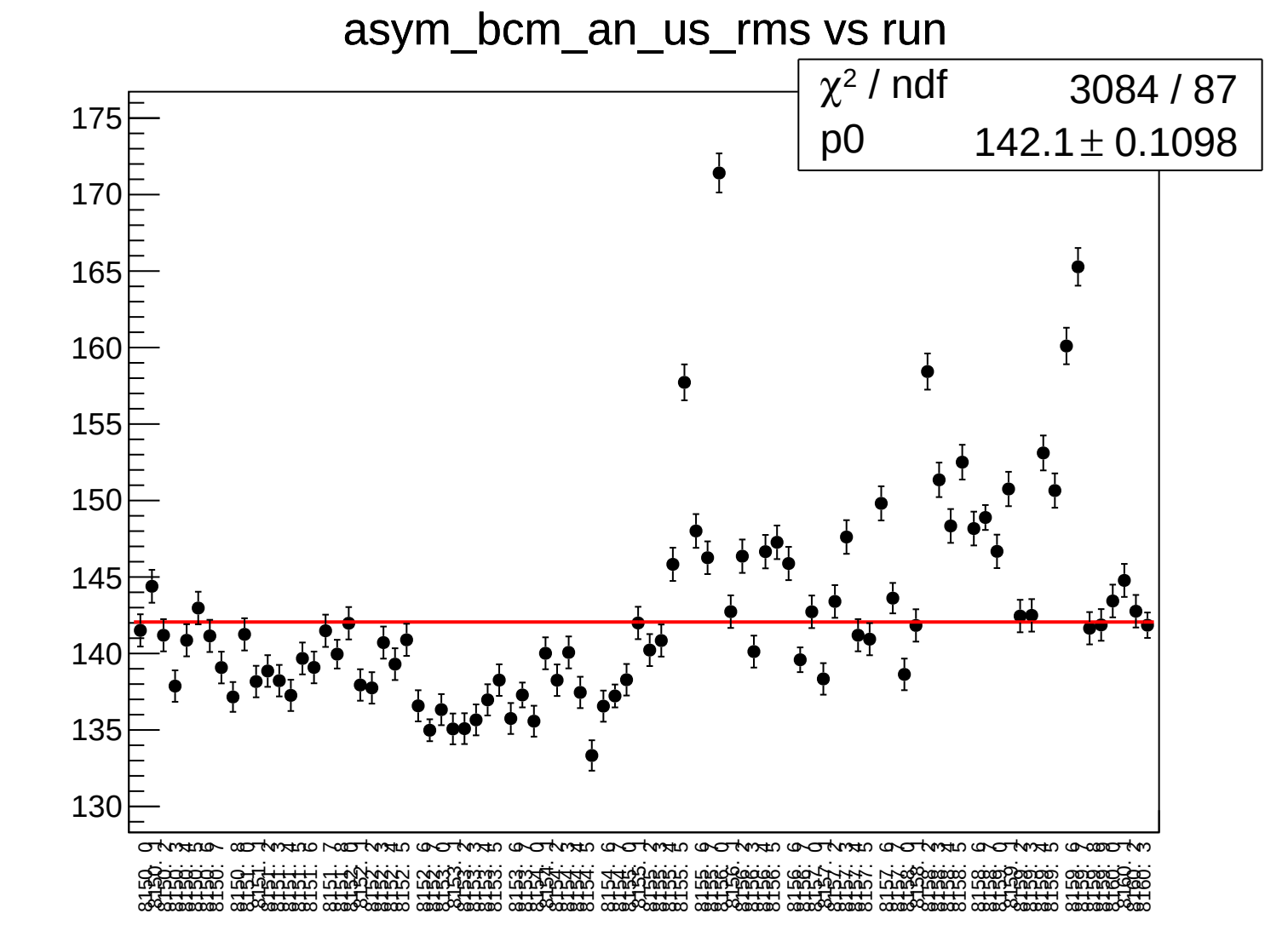

asym_bcm_an_ds_rms vs run
χ² / ndf 3077 / 87
p0 140.8 ± 0.1089
175
170
165
160
155
150
145
140
135
130

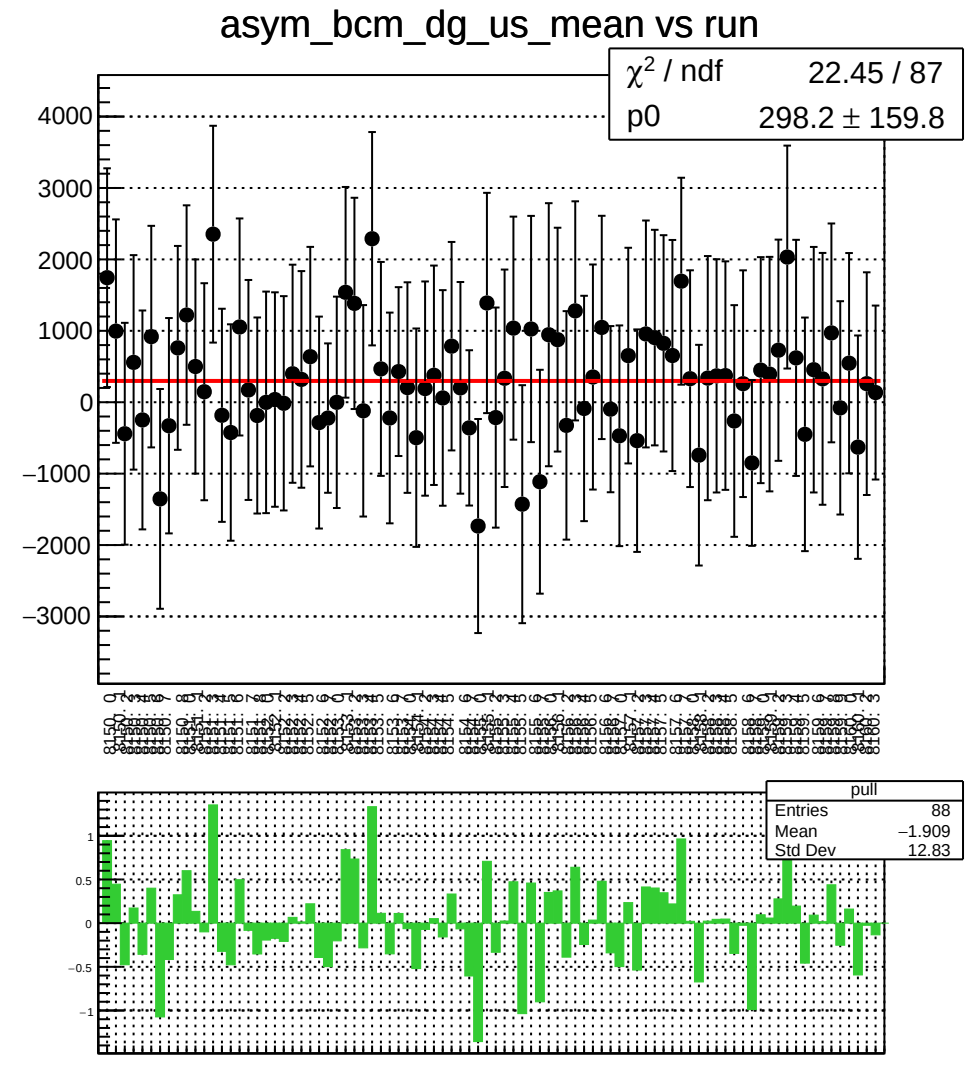

asym_bcm_an_ds3_mean vs run
χ² / ndf 15.34 / 87
p0 272.6 ± 154.7
pull
Entries 88
Mean −122.5
Std Dev 0

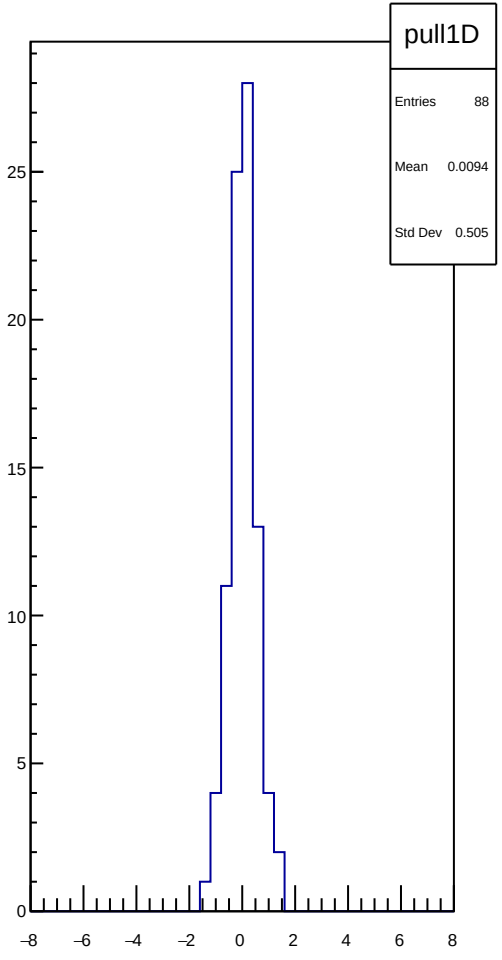

pull1D
Entries 88
Mean 0.008514
Std Dev 0.4175

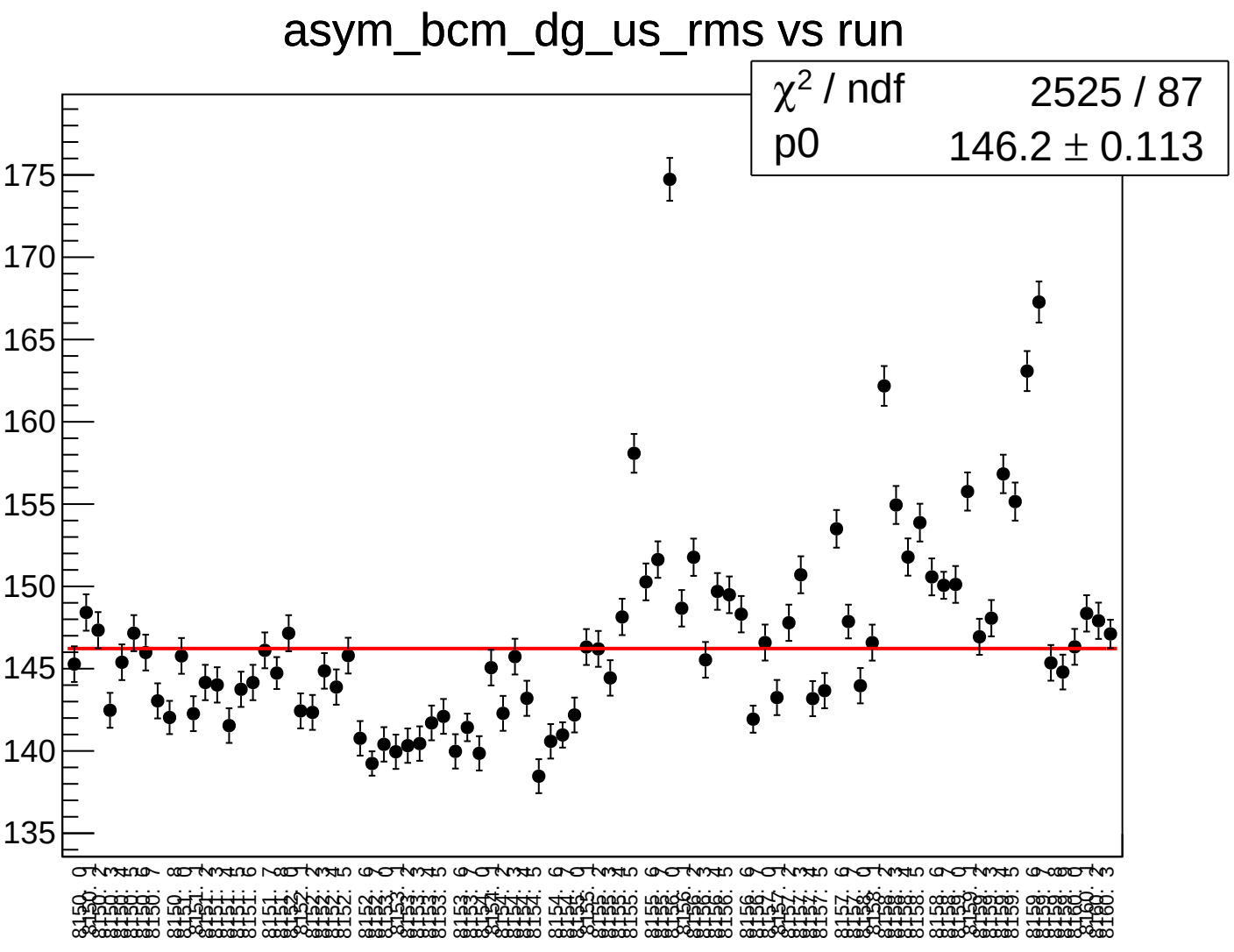

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 3093 / 87
p0 141.5 ± 0.1094
175
170
165
160
155
150
145
140
135
130

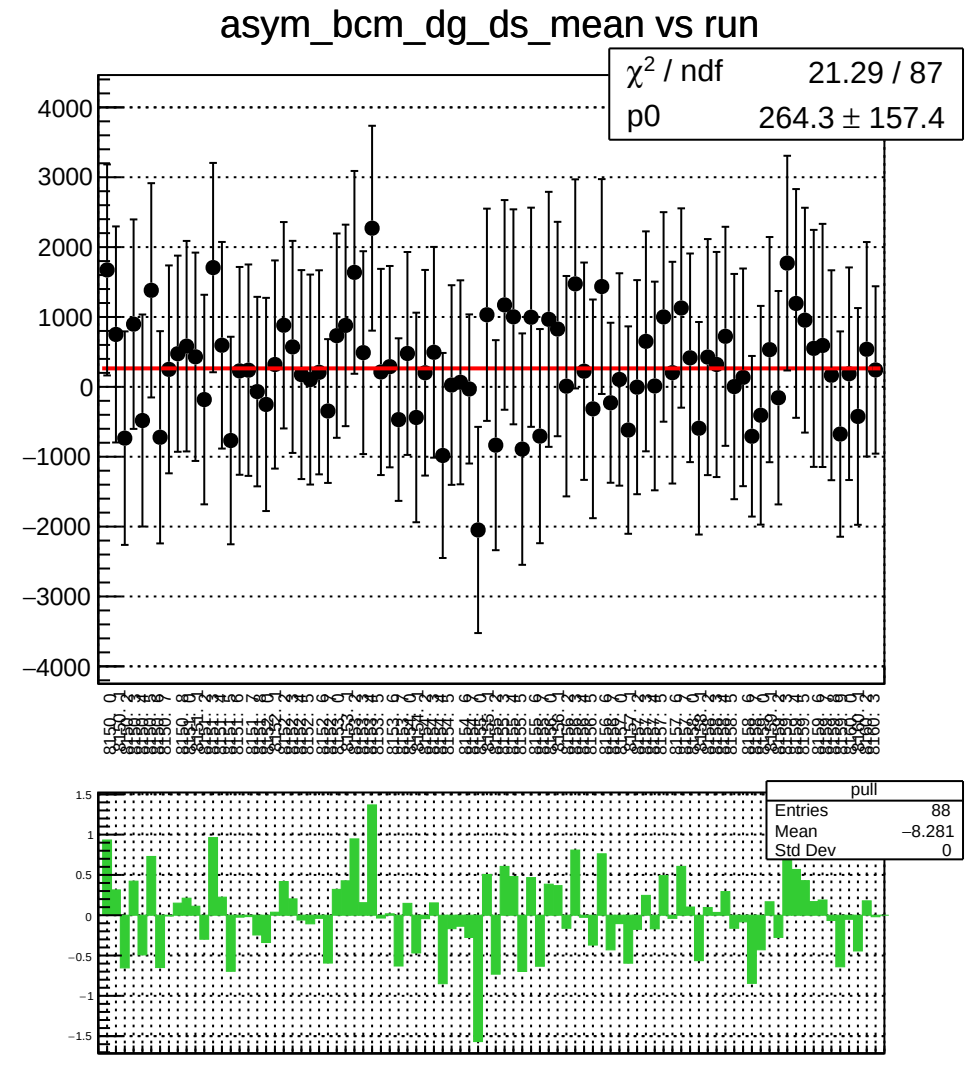

asym_bcm_an_us_mean vs run
χ² / ndf 14.39 / 87
p0 249.8 ± 155.3
pull
Entries 88
Mean −122.5
Std Dev 0
pull1D
Entries 88
Mean 0.007053
Std Dev 0.4043

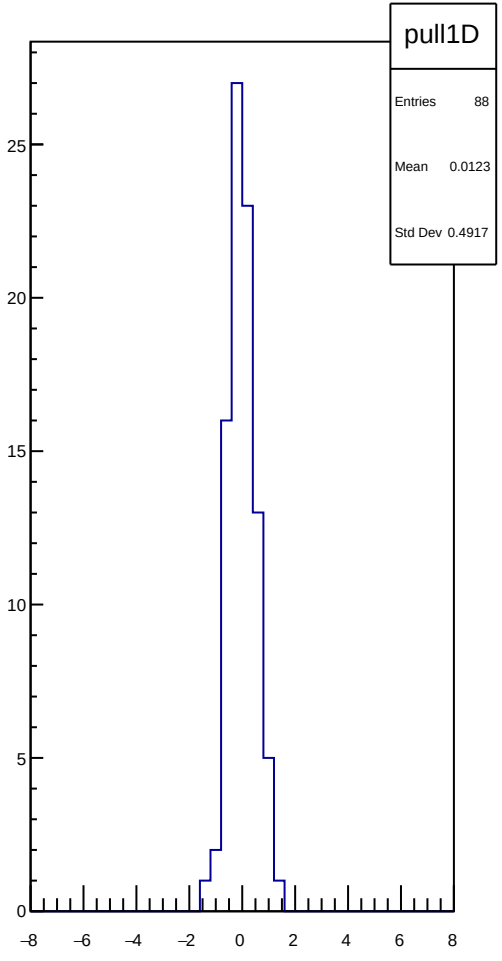

asym_bcm_an_us_rms vs run
χ² / ndf 3084 / 87
p0 142.1 ± 0.1098
175
170
165
160
155
150
145
140
135
130

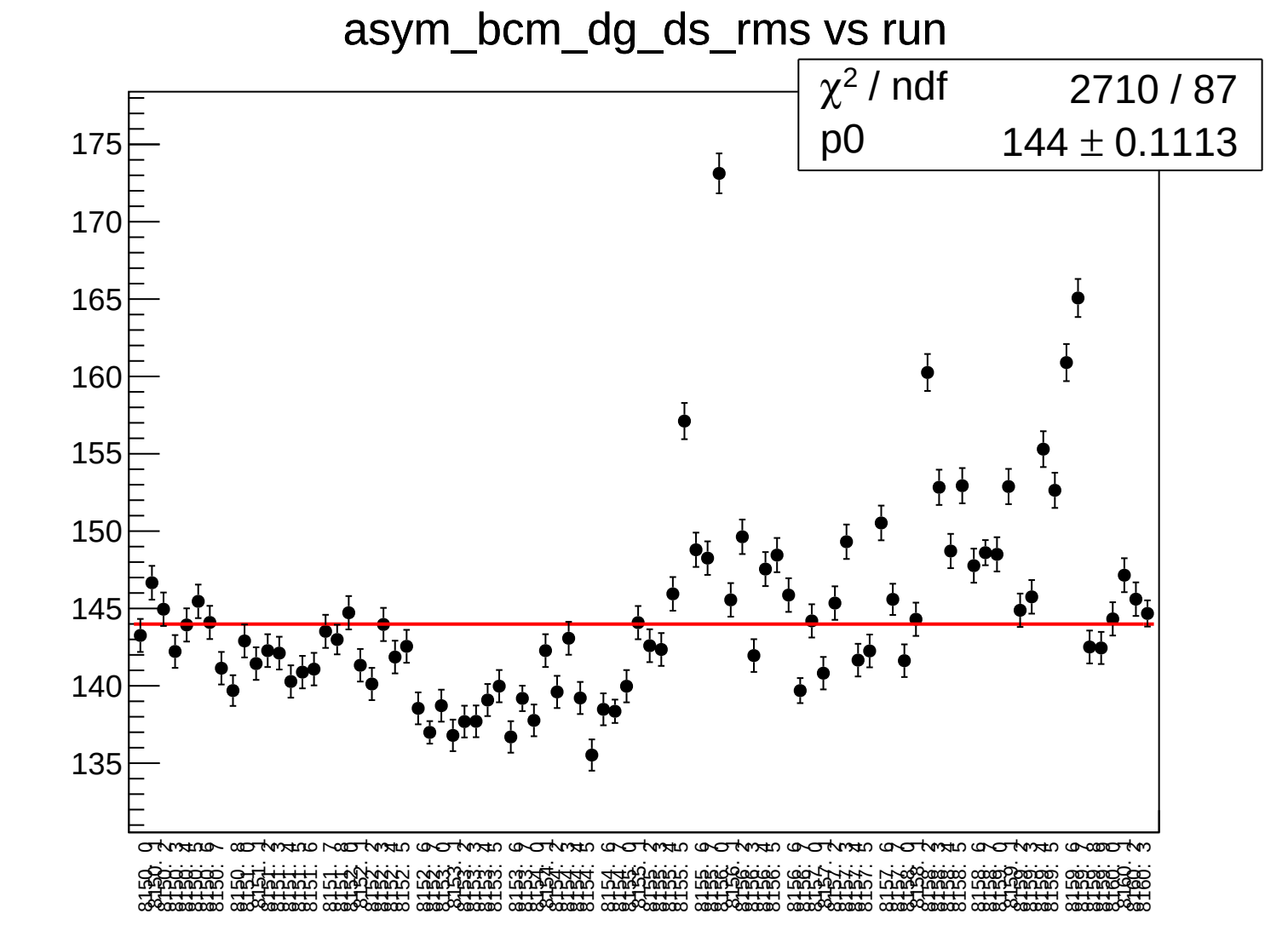

asym_bcm_dg_us_mean vs run
χ² / ndf 22.45 / 87
p0 298.2 ± 159.8
pull
Entries 88
Mean −1.909
Std Dev 12.83

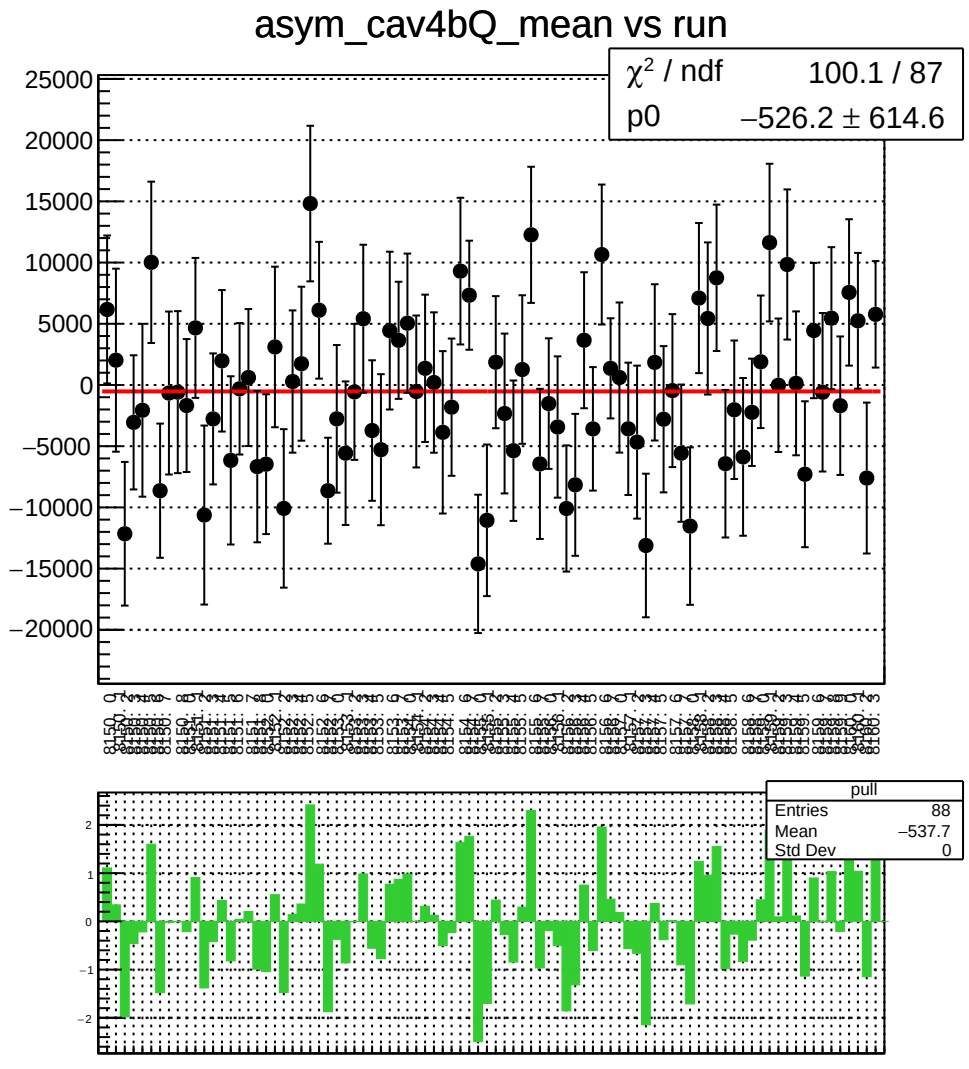

pull1D
Entries 88
Mean 0.0094
Std Dev 0.505

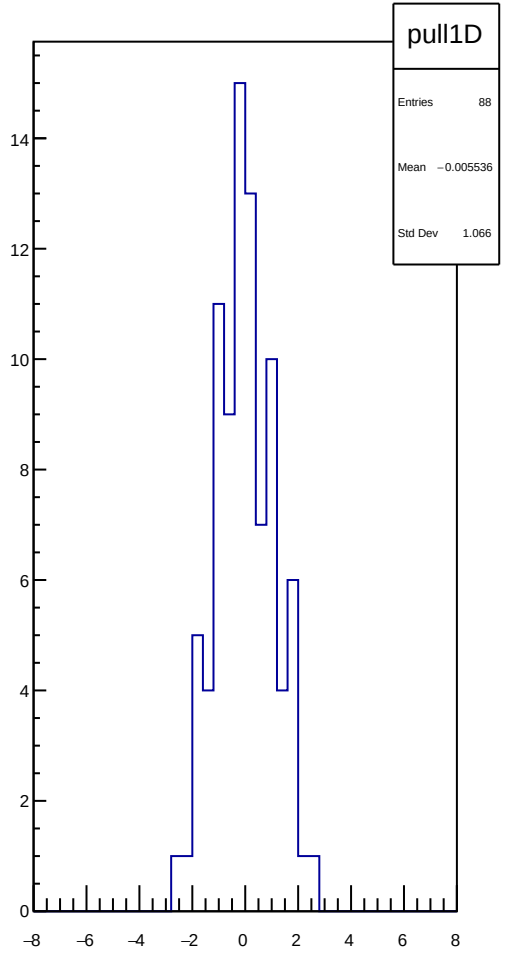

asym_bcm_dg_us_rms vs run
χ^2 / ndf 2525 / 87
p0 146.2 ± 0.113
175
170
165
160
155
150
145
140
135

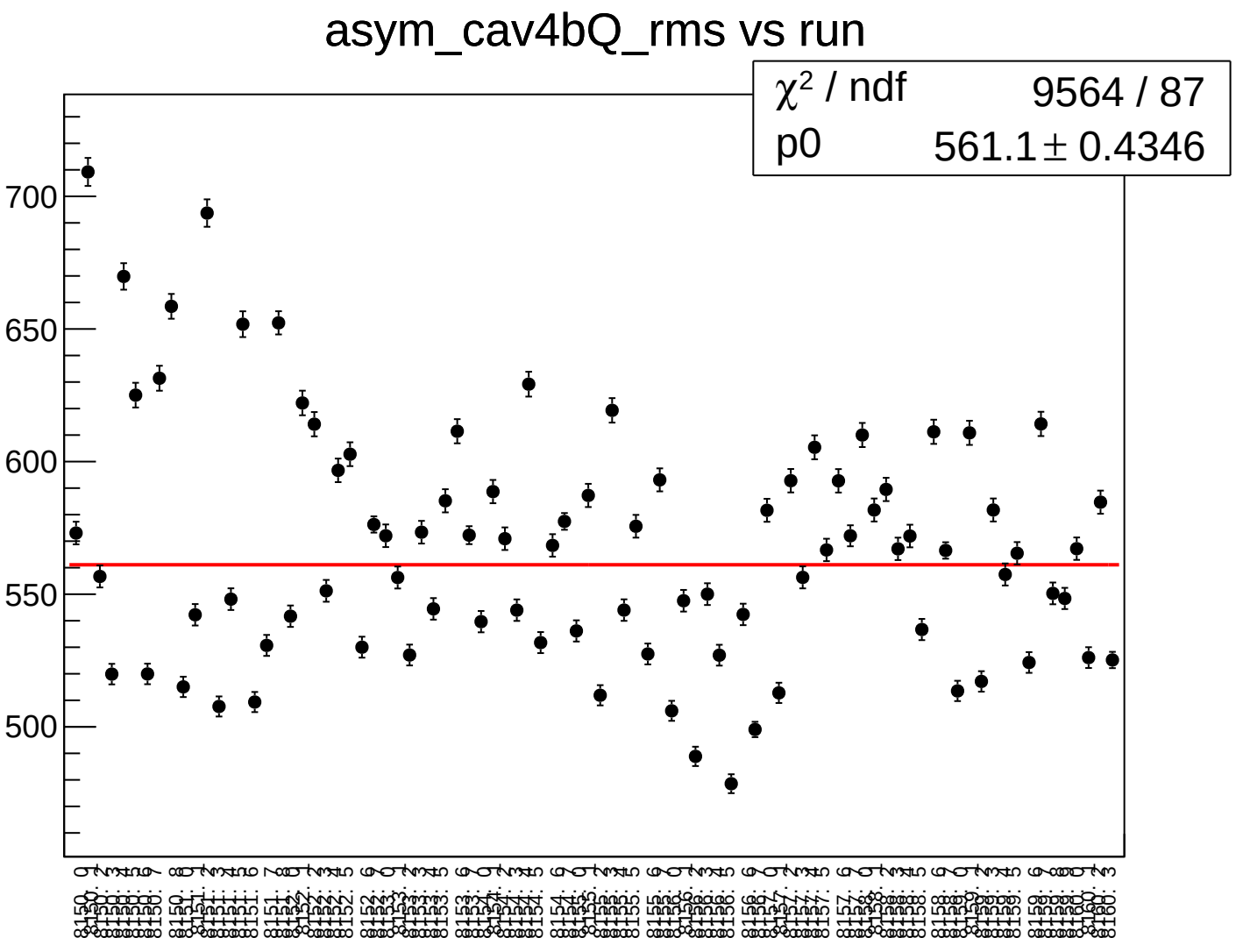

asym_bcm_dg_ds_mean vs run
χ² / ndf 21.29 / 87
p0 264.3 ± 157.4
pull
Entries 88
Mean −8.281
Std Dev 0

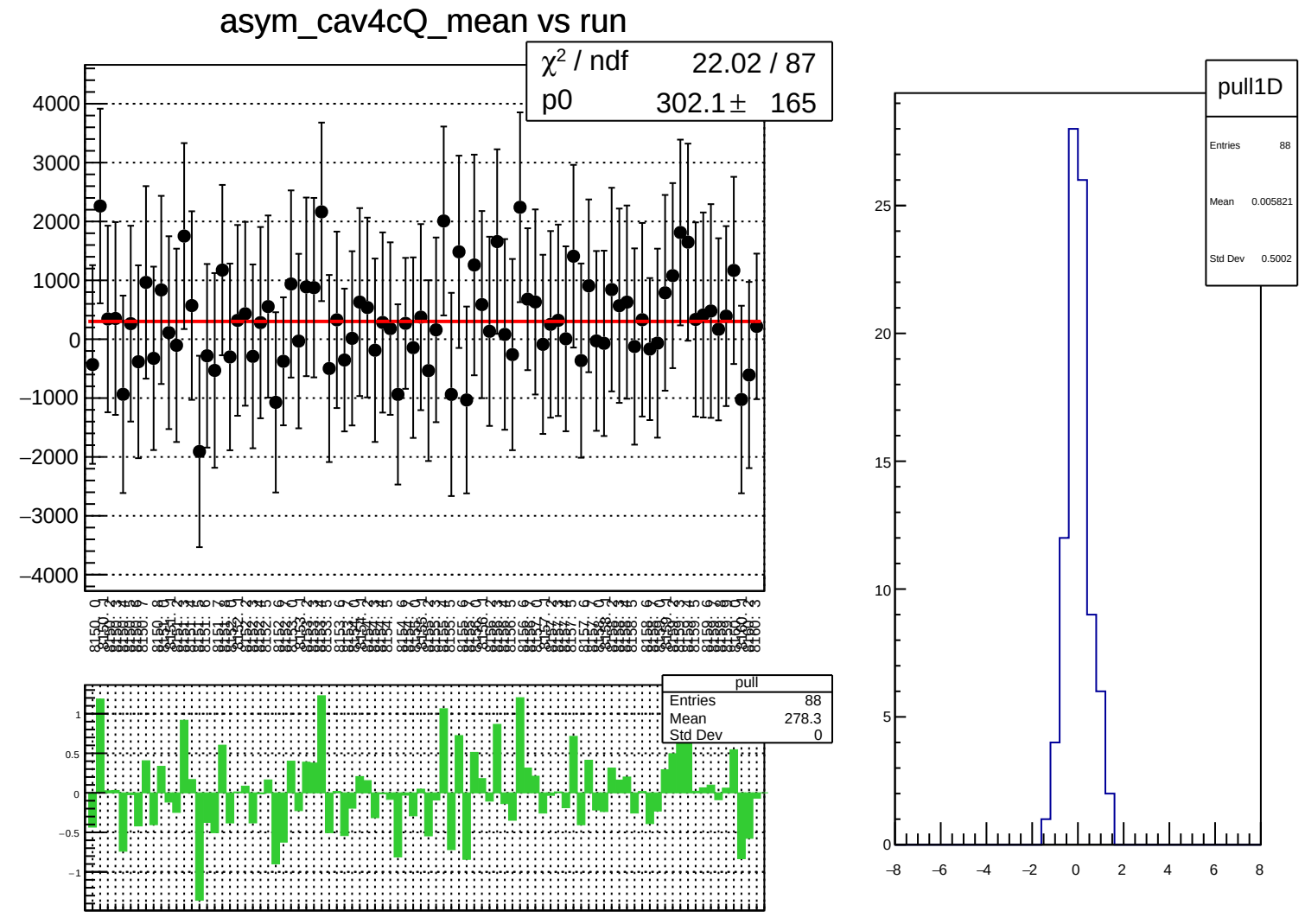

pull1D
Entries 88
Mean 0.0123
Std Dev 0.4917

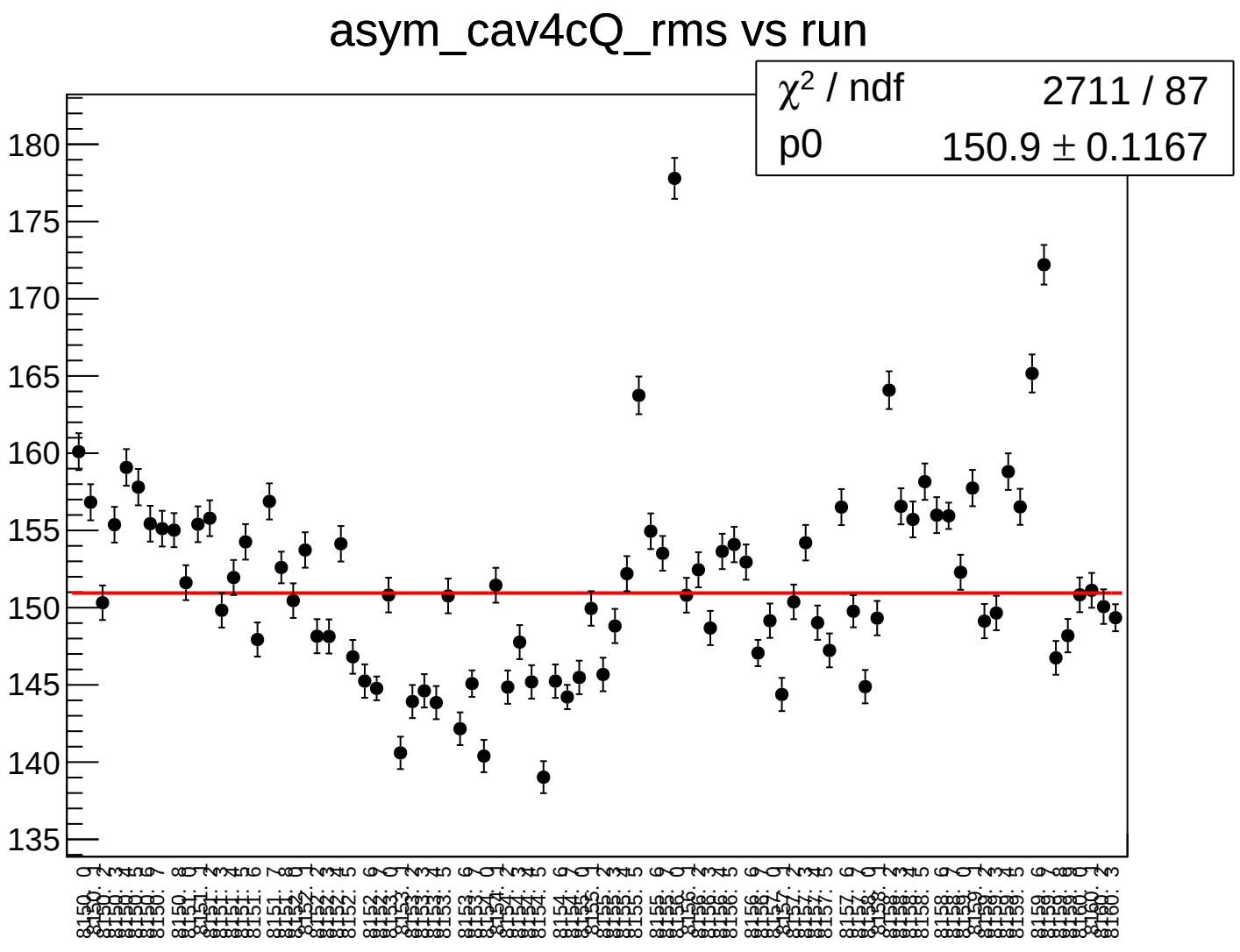

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 2710 / 87
p0 144 ± 0.1113
175
170
165
160
155
150
145
140
135

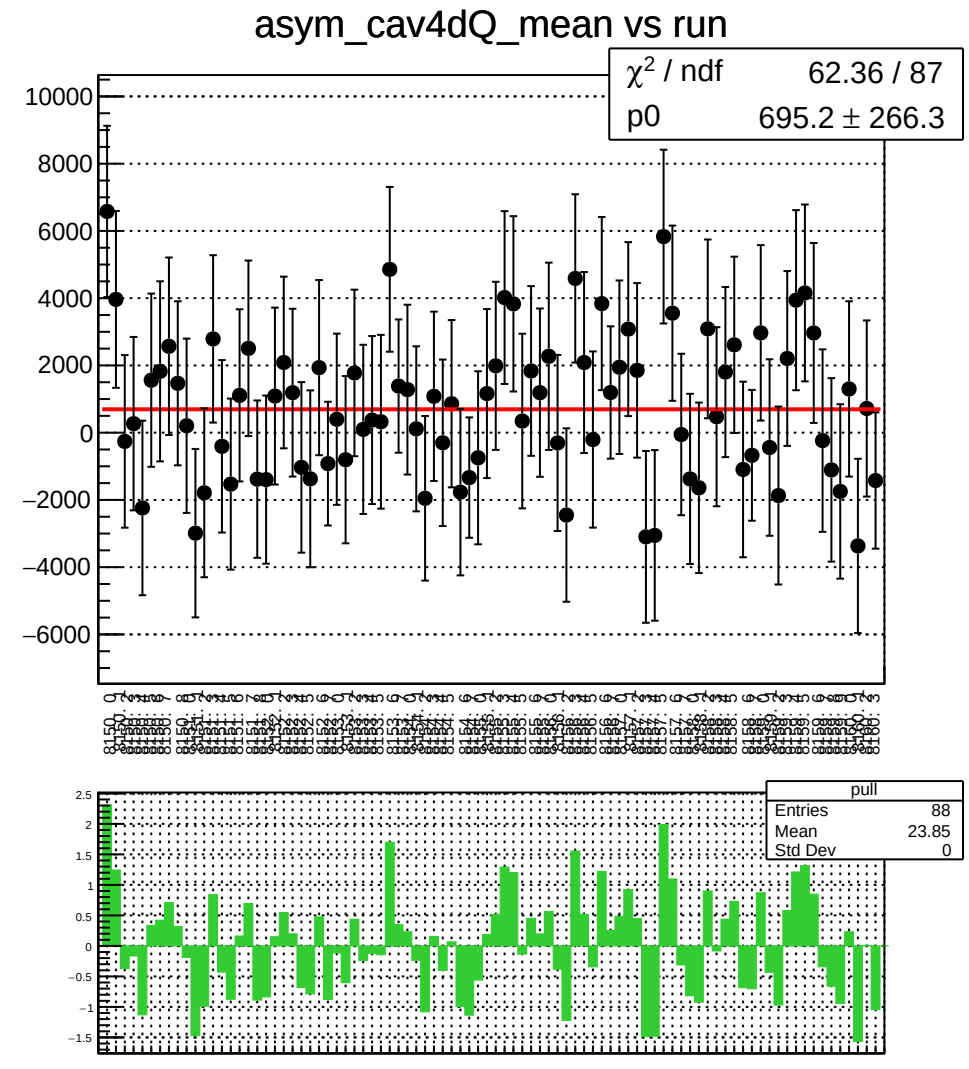

asym_cav4bQ_mean vs run
χ² / ndf 100.1 / 87
p0 −526.2 ± 614.6
pull
Entries 88
Mean −537.7
Std Dev 0

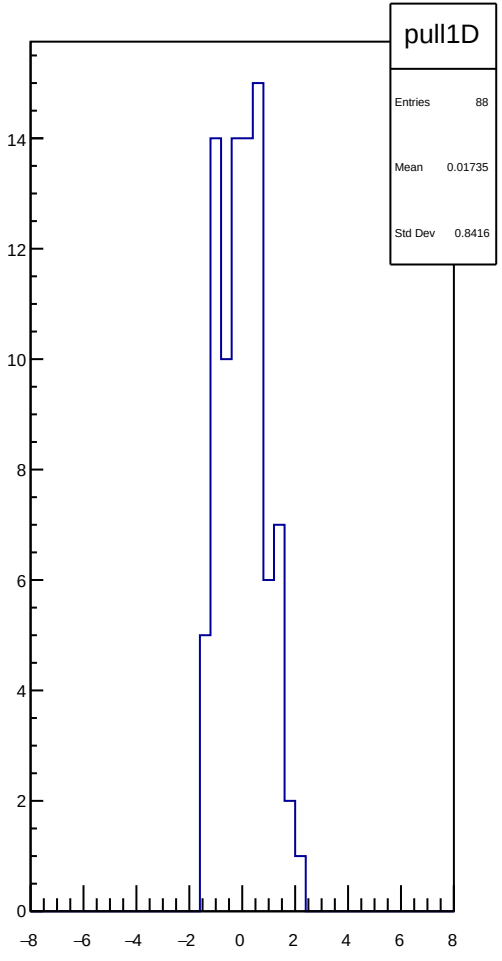

pull1D
Entries 88
Mean −0.005536
Std Dev 1.066

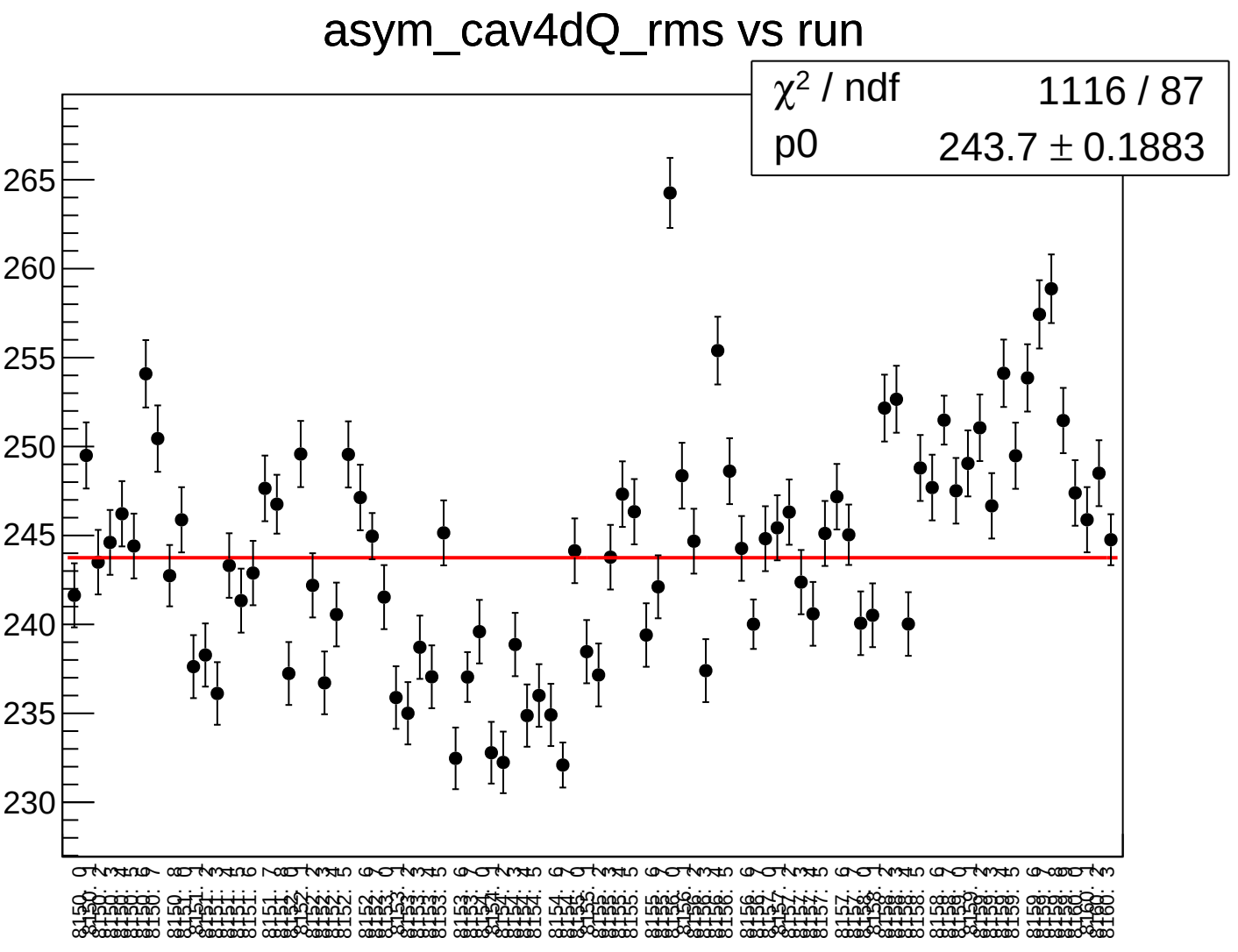

asym_cav4bQ_rms vs run
χ² / ndf 9564 / 87
p0 561.1 ± 0.4346
700
650
600
550
500

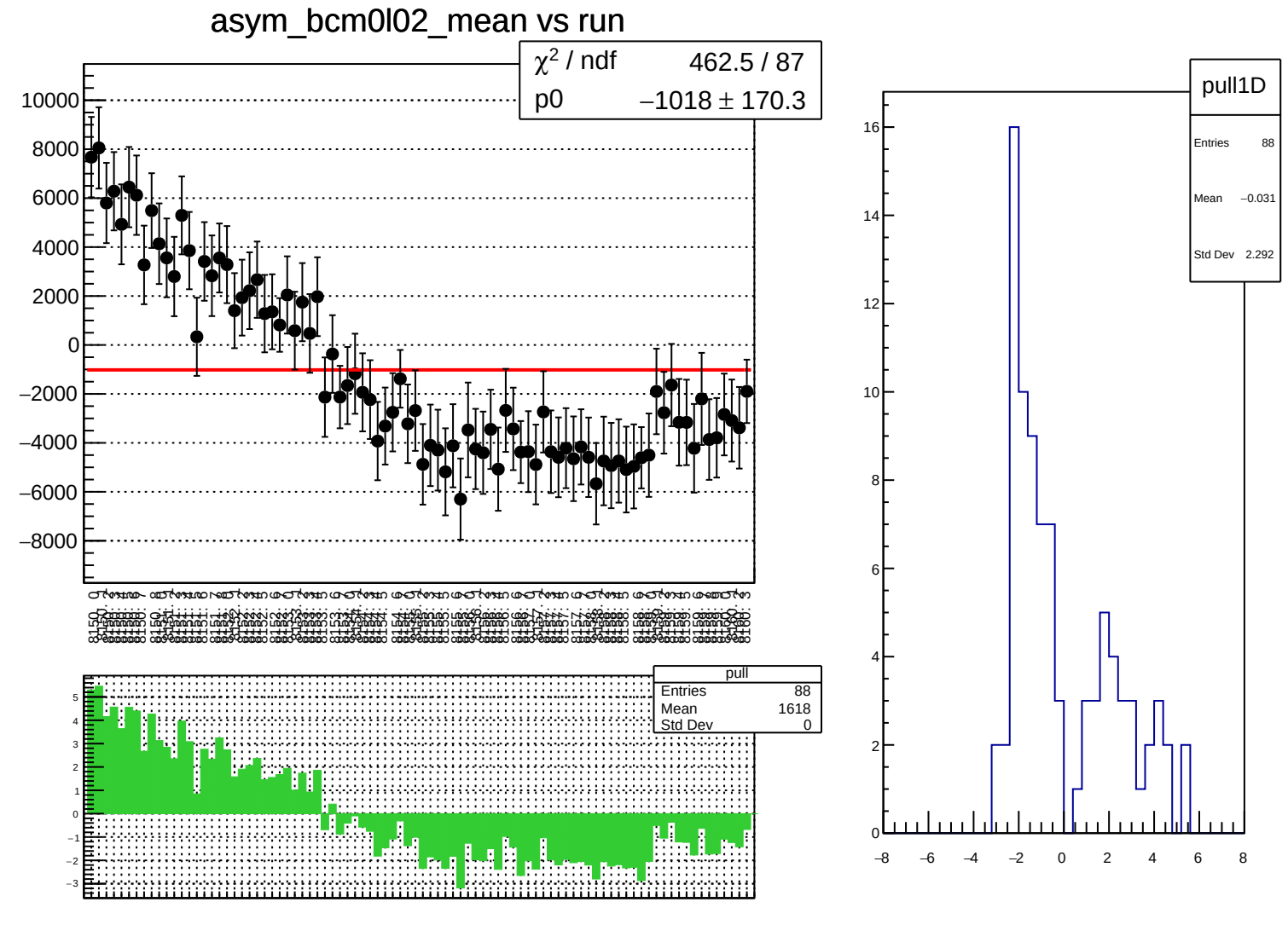

asym_cav4cQ_mean vs run
χ² / ndf 22.02 / 87
p0 302.1 ± 165
pull
Entries 88
Mean 278.3
Std Dev 0
pull1D
Entries 88
Mean 0.005821
Std Dev 0.5002

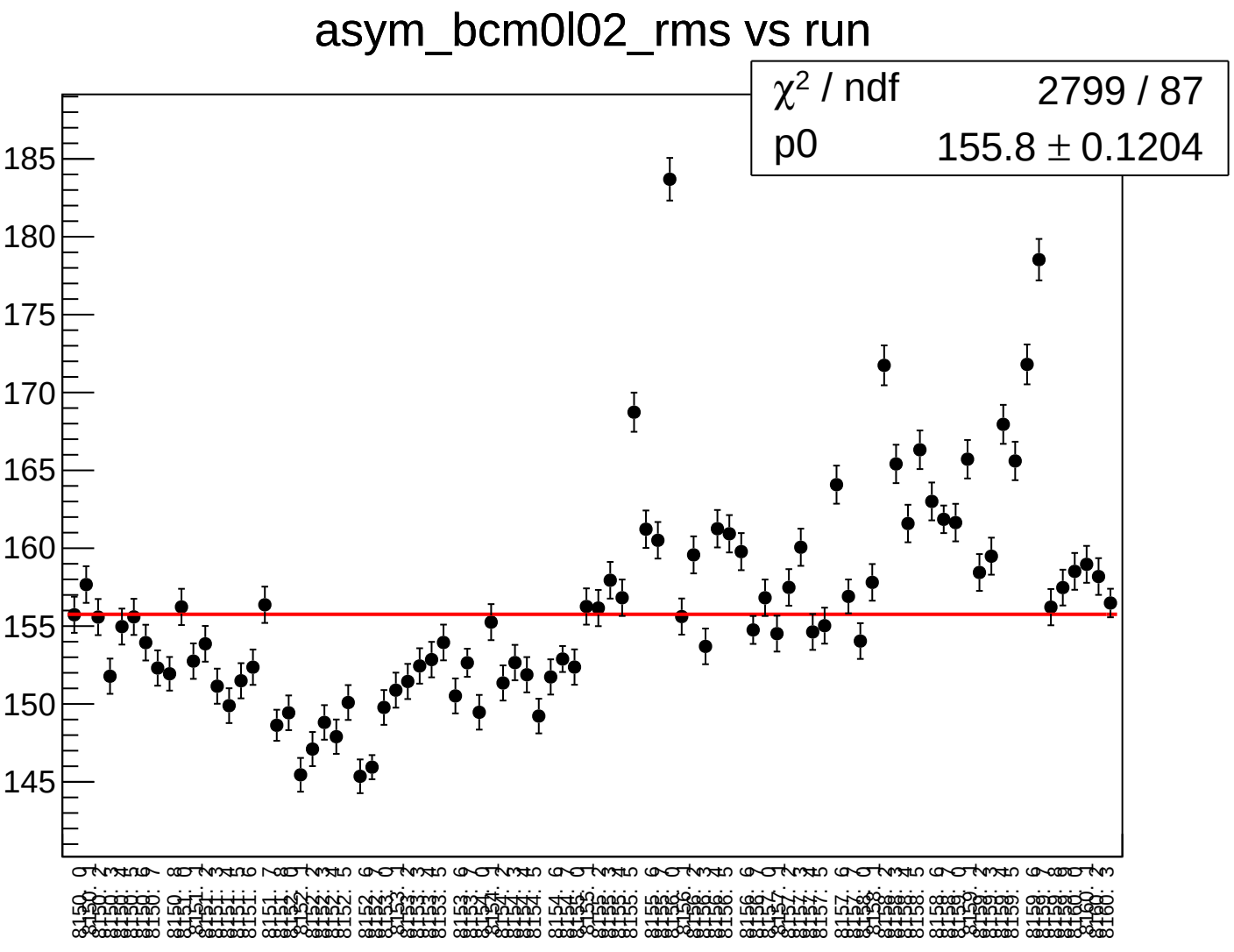

asym_cav4cQ_rms vs run
χ² / ndf 2711 / 87
p0 150.9 ± 0.1167
180
175
170
165
160
155
150
145
140
135

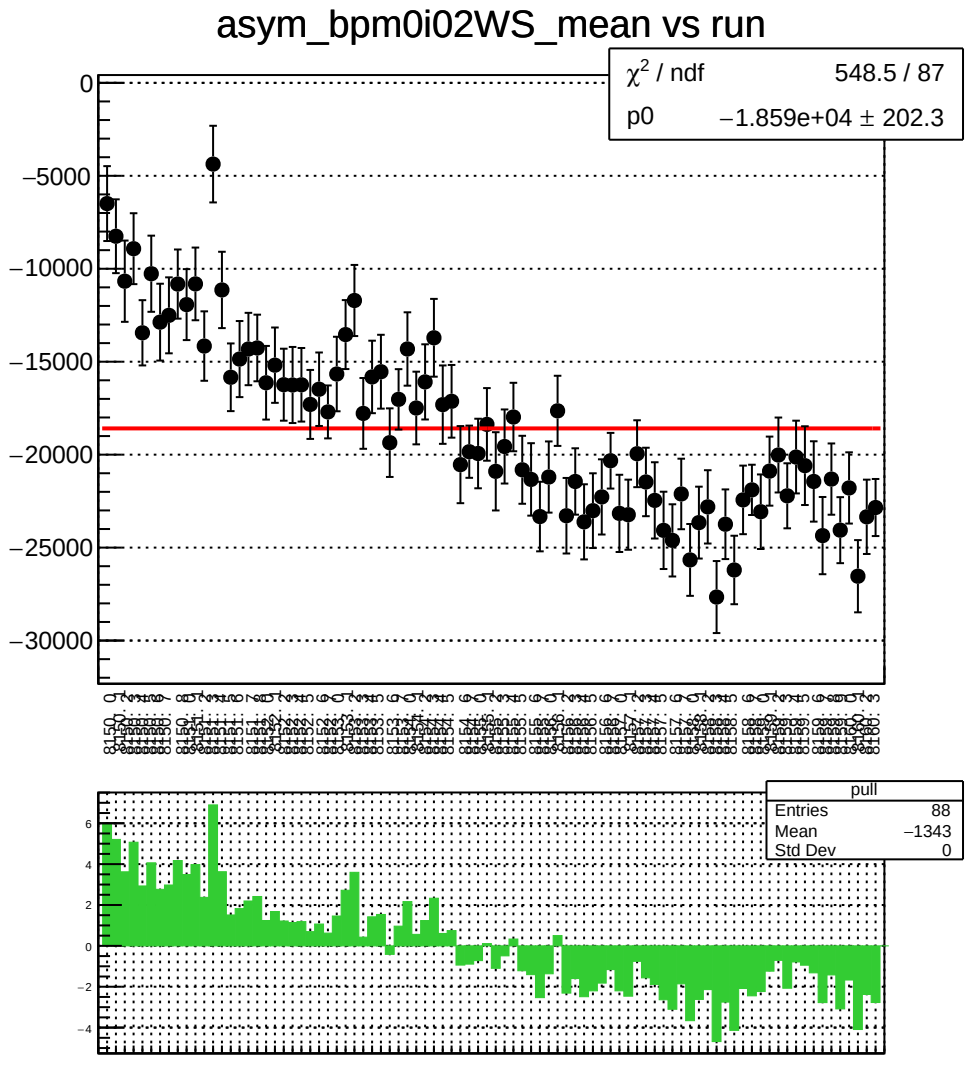

asym_cav4dQ_mean vs run
χ² / ndf 62.36 / 87
p0 695.2 ± 266.3
pull
Entries 88
Mean 23.85
Std Dev 0

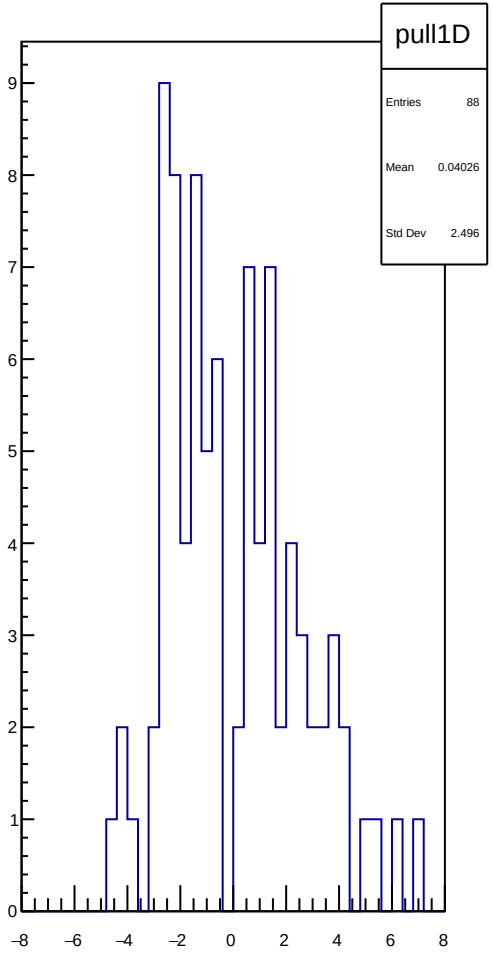

pull1D
Entries 88
Mean 0.01735
Std Dev 0.8416

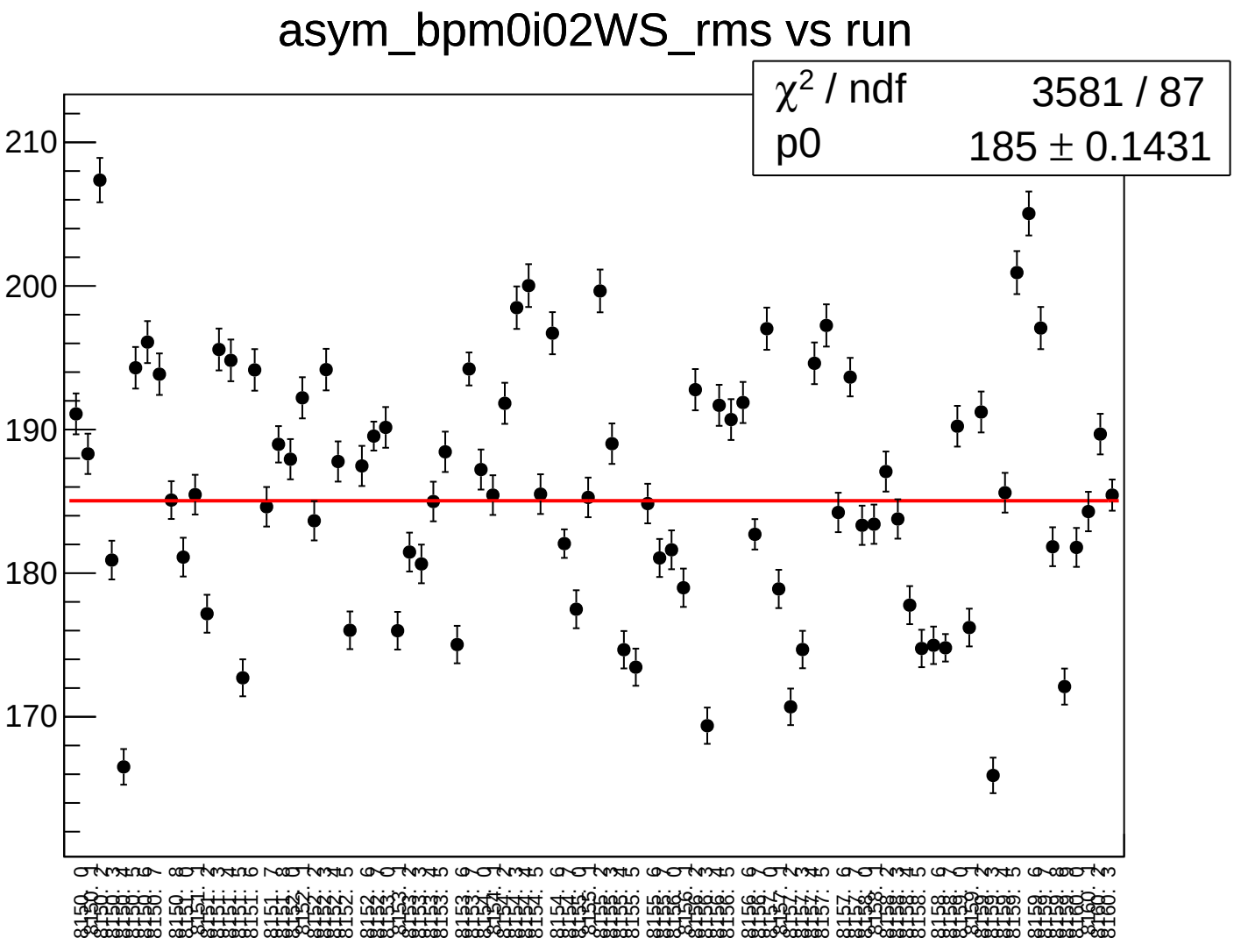

asym_cav4dQ_rms vs run
χ² / ndf 1116 / 87
p0 243.7 ± 0.1883
265
260
255
250
245
240
235
230

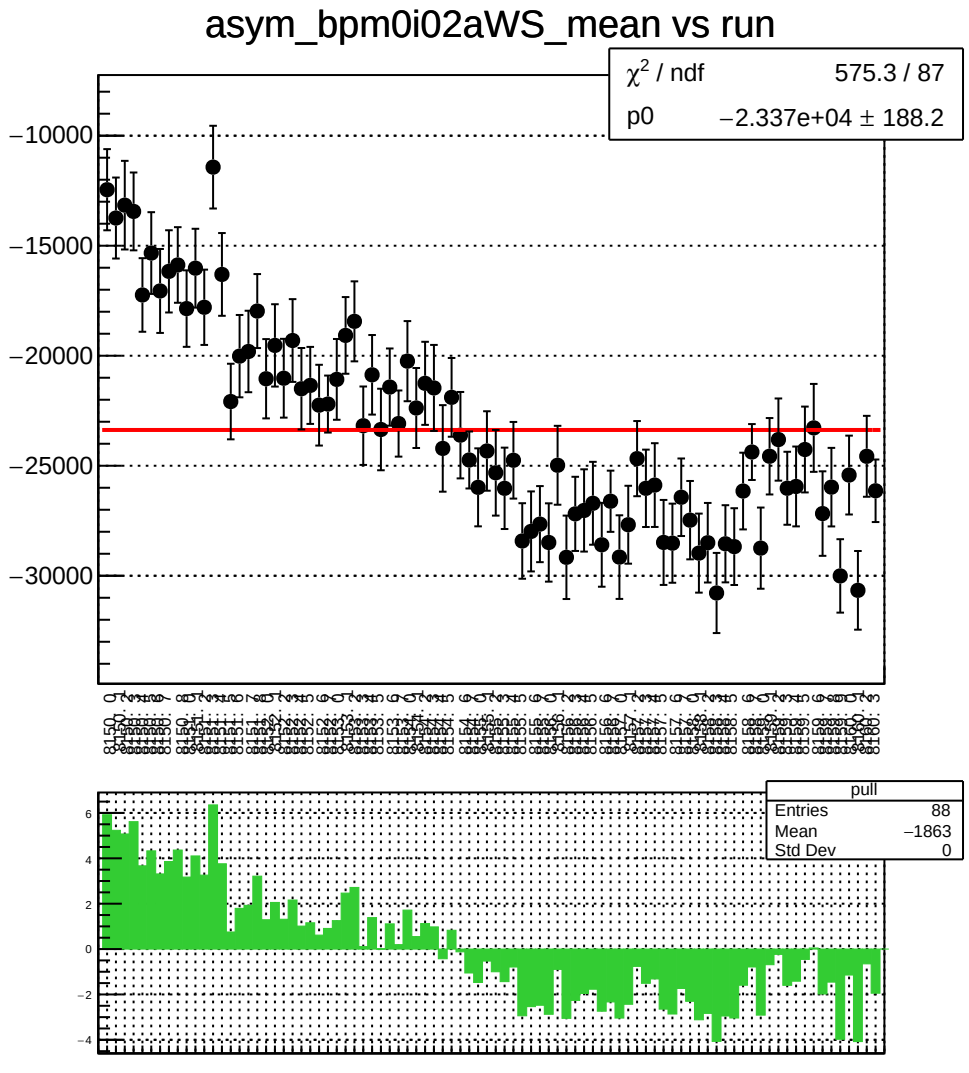

asym_bcm0l02_mean vs run
χ² / ndf 462.5 / 87
p0 −1018 ± 170.3
pull
Entries 88
Mean 1618
Std Dev 0
pull1D
Entries 88
Mean −0.031
Std Dev 2.292

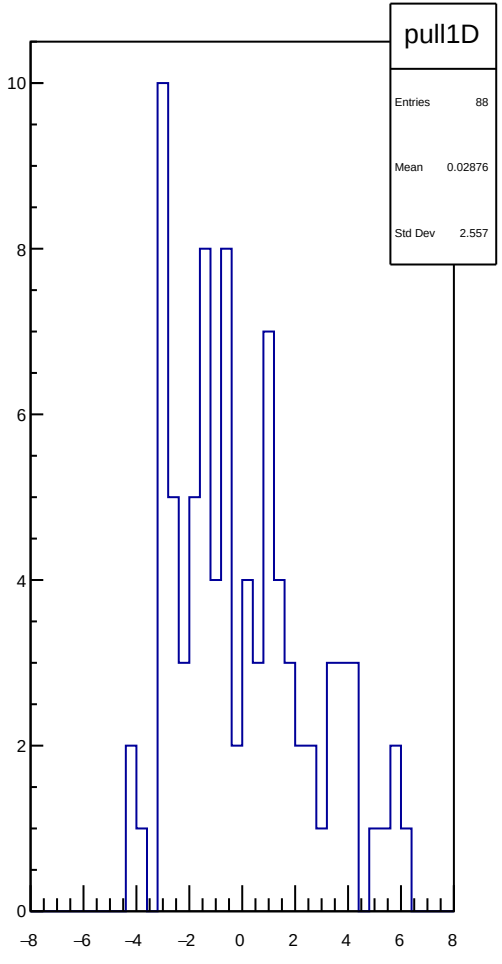

asym_bcm0l02_rms vs run
χ² / ndf 2799 / 87
p0 155.8 ± 0.1204
185
180
175
170
165
160
155
150
145

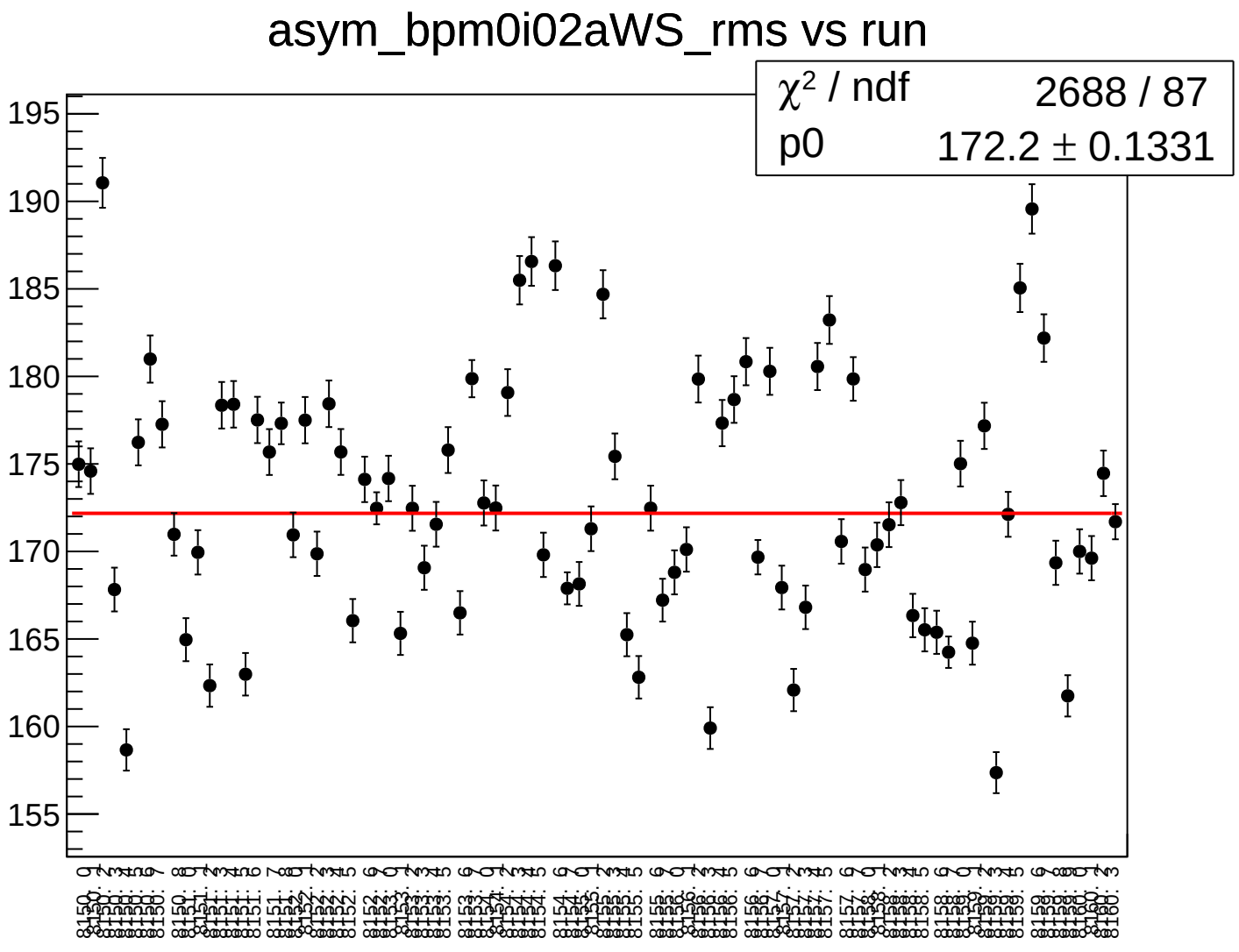

asym_bpm0i02WS_mean vs run
χ² / ndf 548.5 / 87
p0 −1.859e+04 ± 202.3
pull
Entries 88
Mean −1343
Std Dev 0

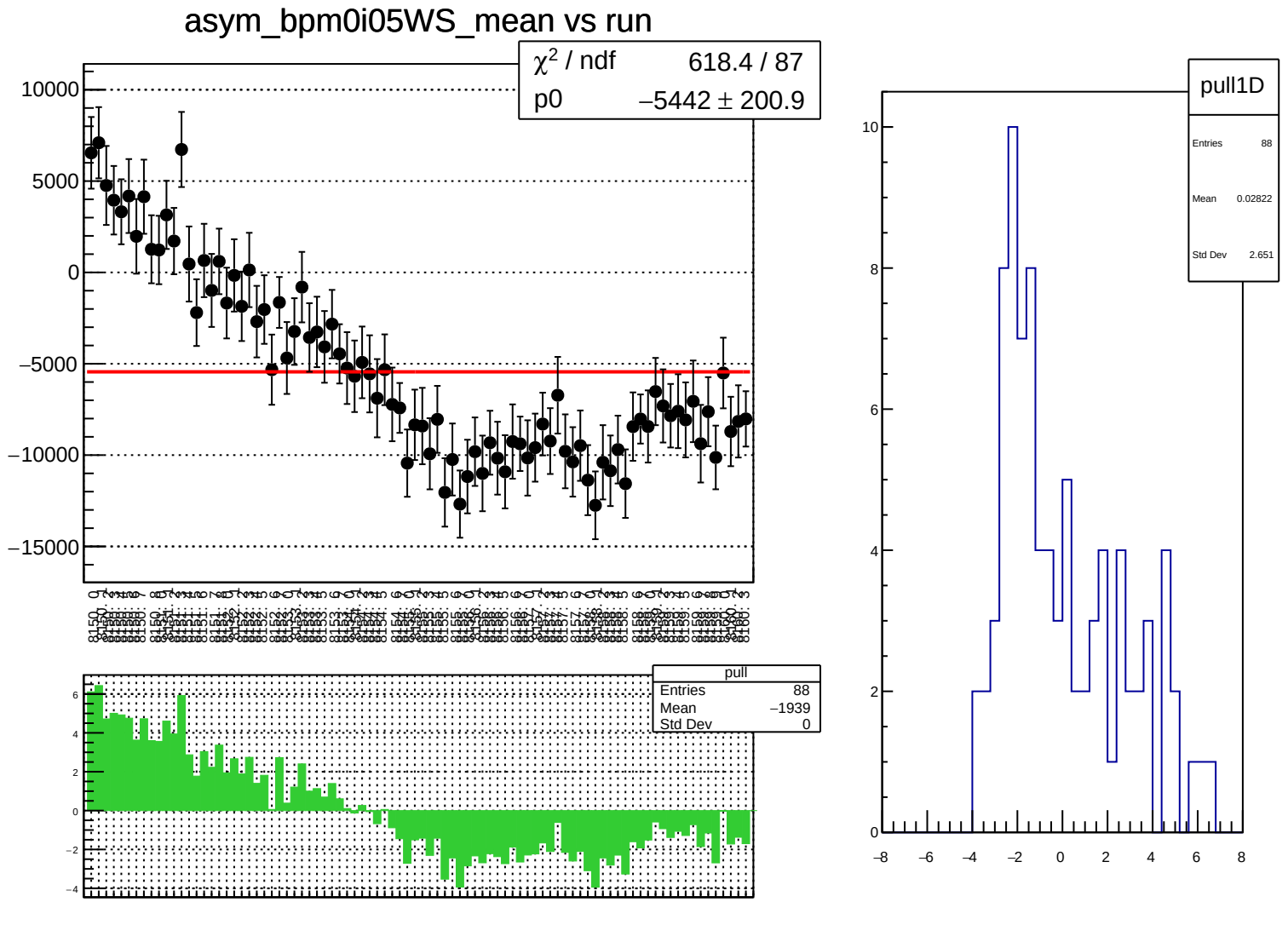

pull1D
Entries 88
Mean 0.04026
Std Dev 2.496

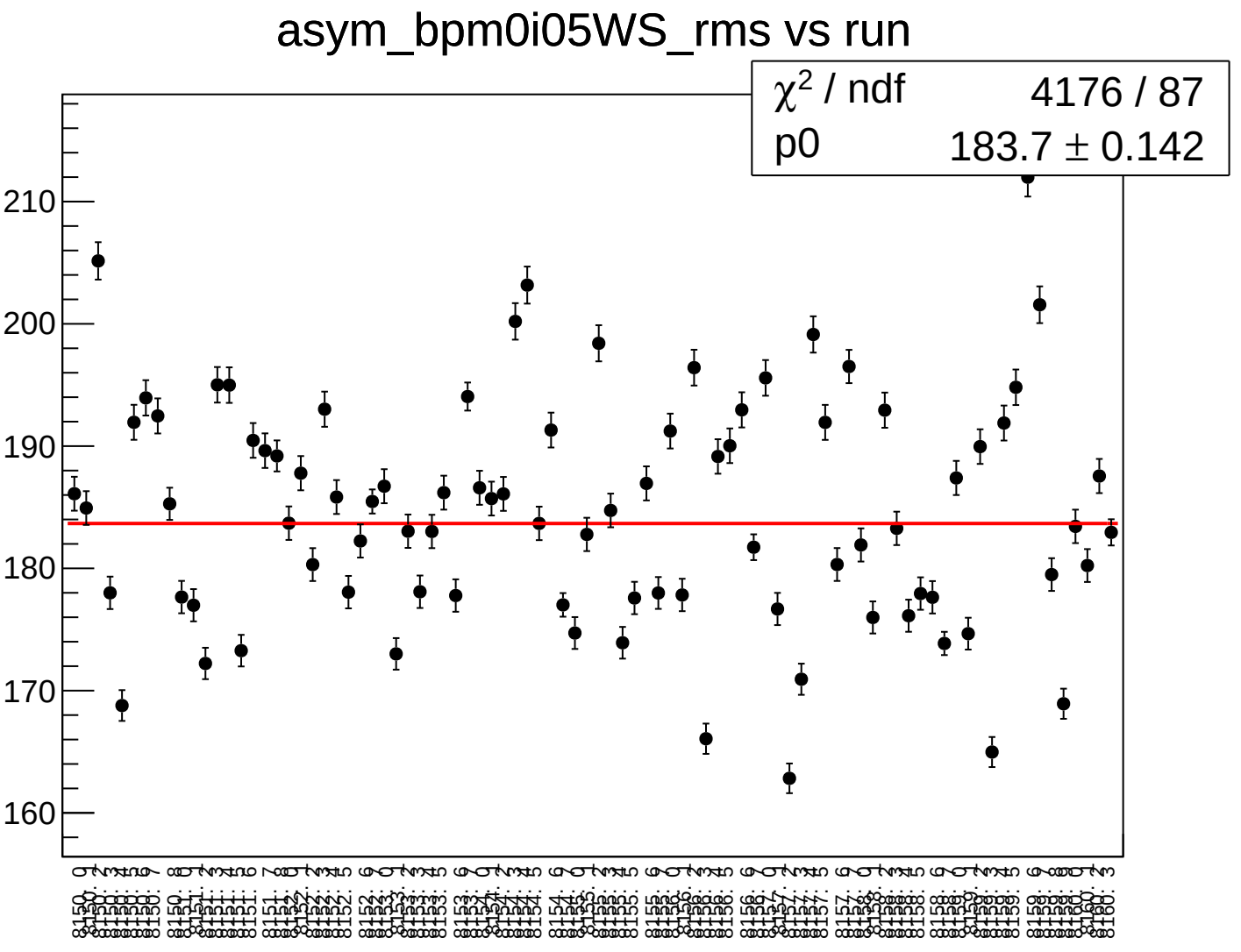

asym_bpm0i02WS_rms vs run
χ² / ndf 3581 / 87
p0 185 ± 0.1431
210
200
190
180
170

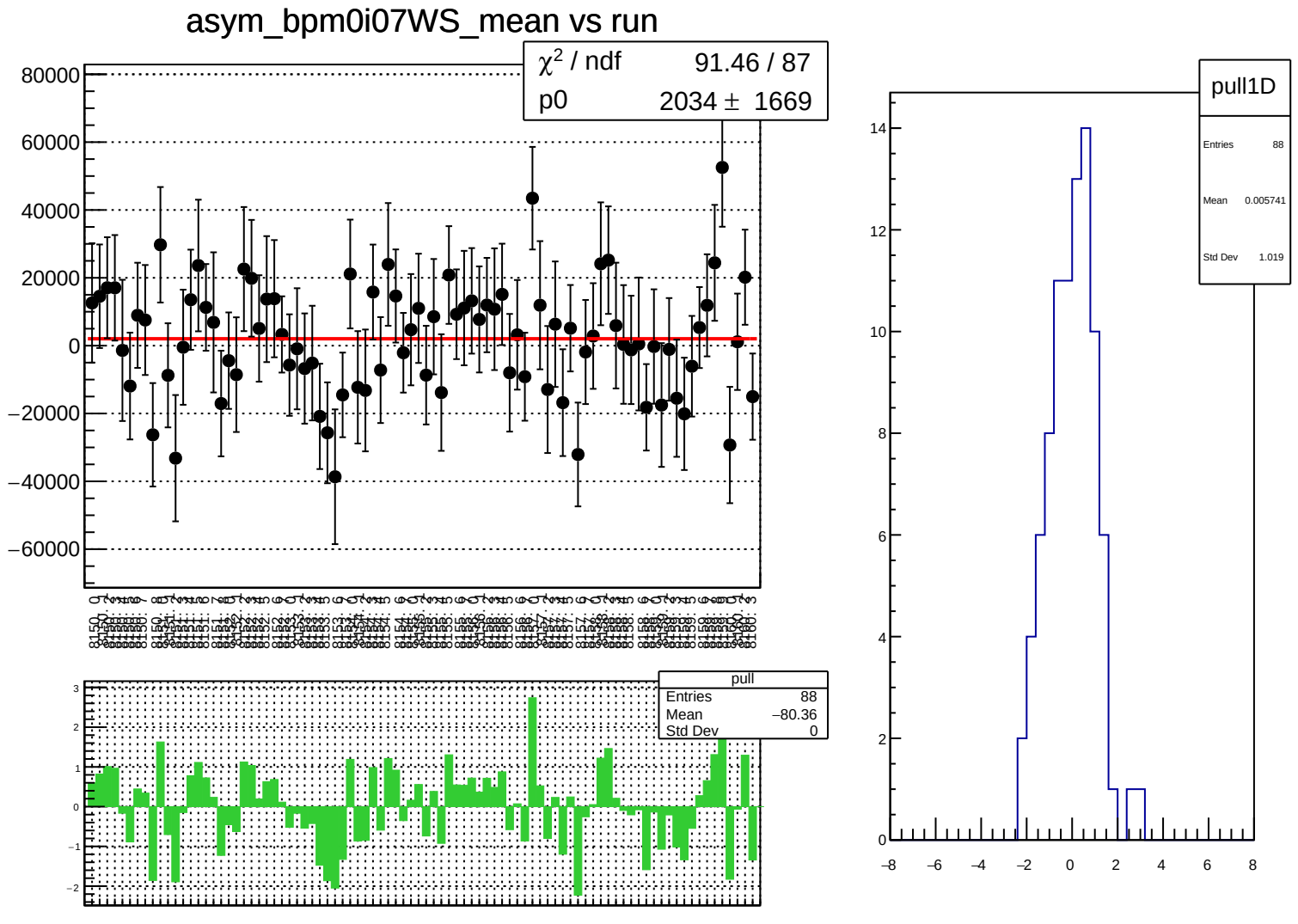

asym_bpm0i02aWS_mean vs run
χ² / ndf 575.3 / 87
p0 −2.337e+04 ± 188.2
−10000
−15000
−20000
−25000
−30000
pull
Entries 88
Mean −1863
Std Dev 0
6
4
2
0
−2
−4

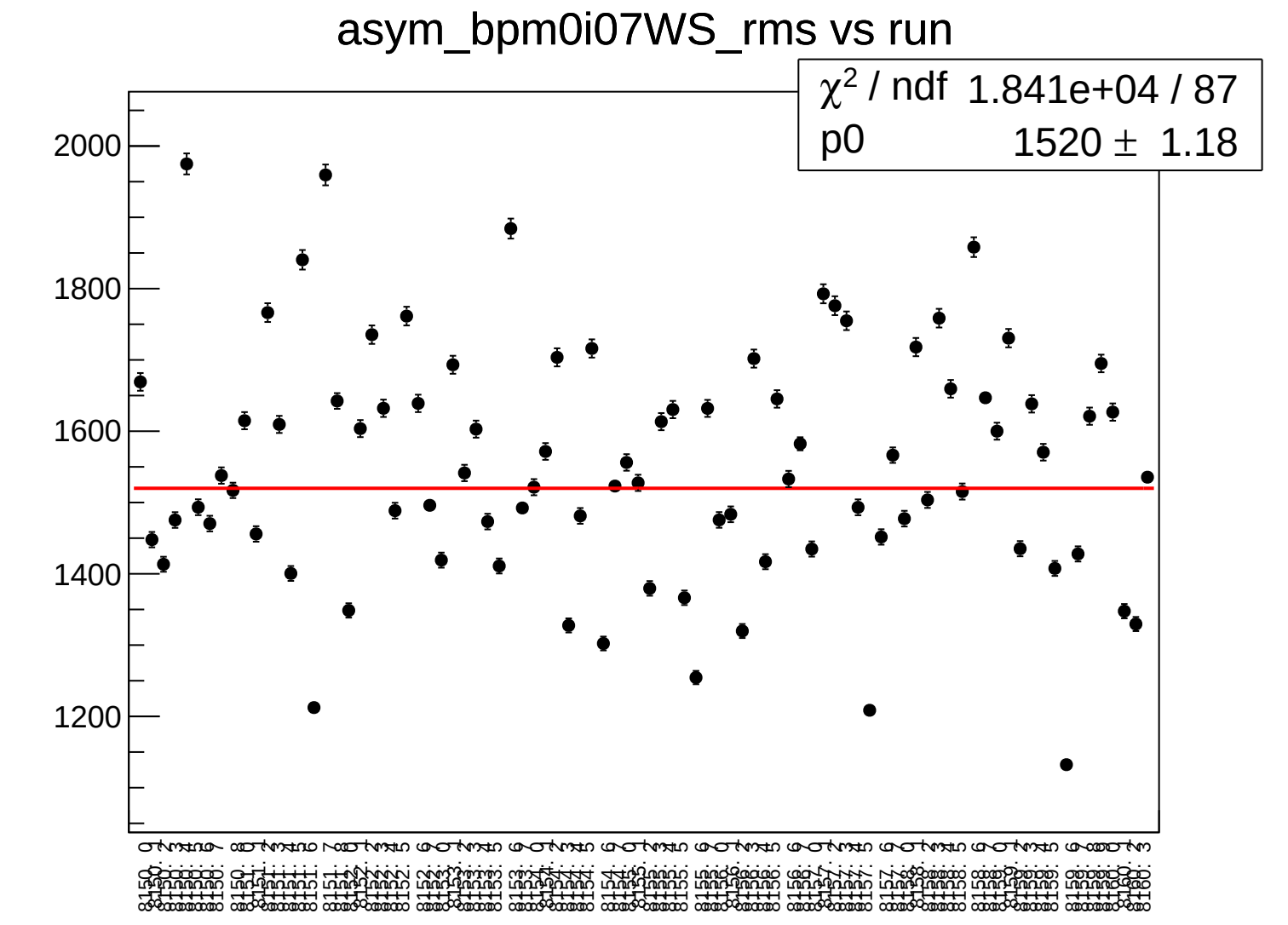

pull1D
Entries 88
Mean 0.02876
Std Dev 2.557
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

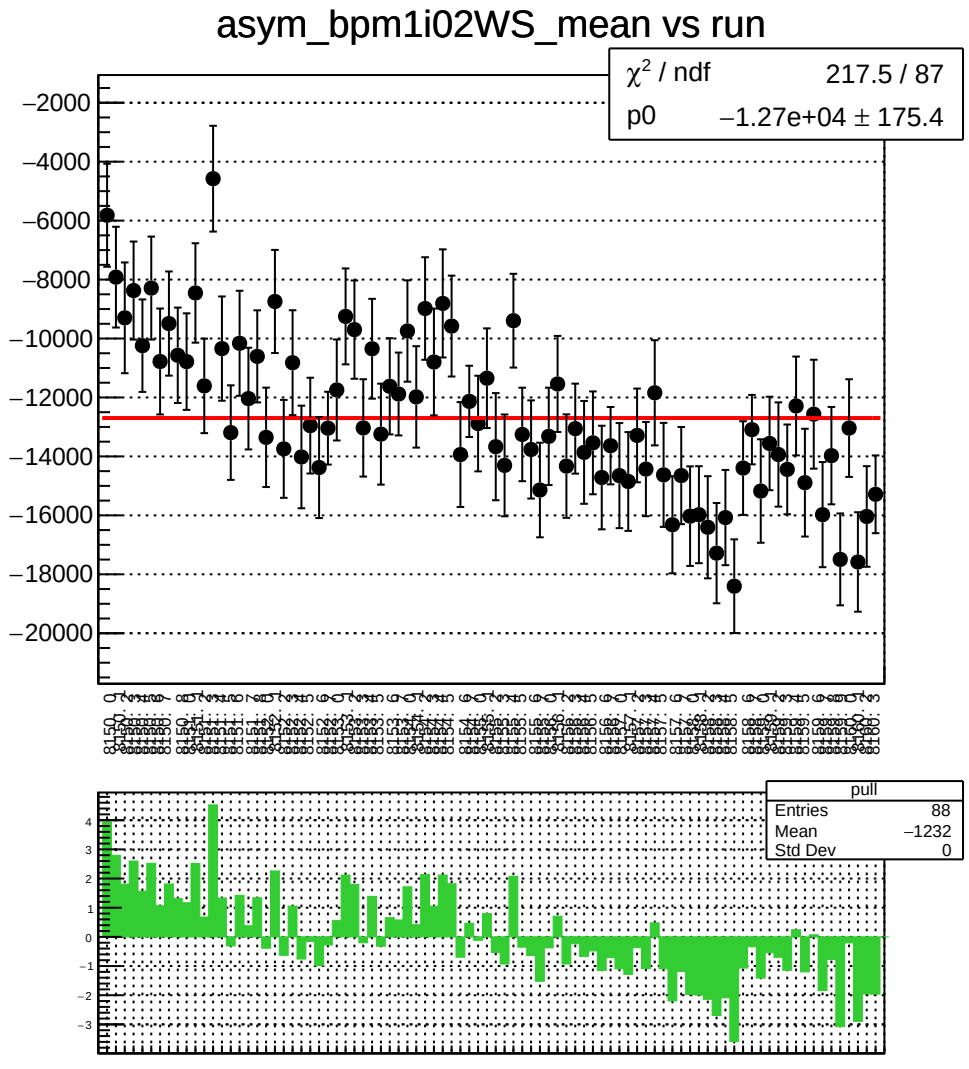

asym_bpm0i02aWS_rms vs run
χ² / ndf 2688 / 87
p0 172.2 ± 0.1331
195
190
185
180
175
170
165
160
155

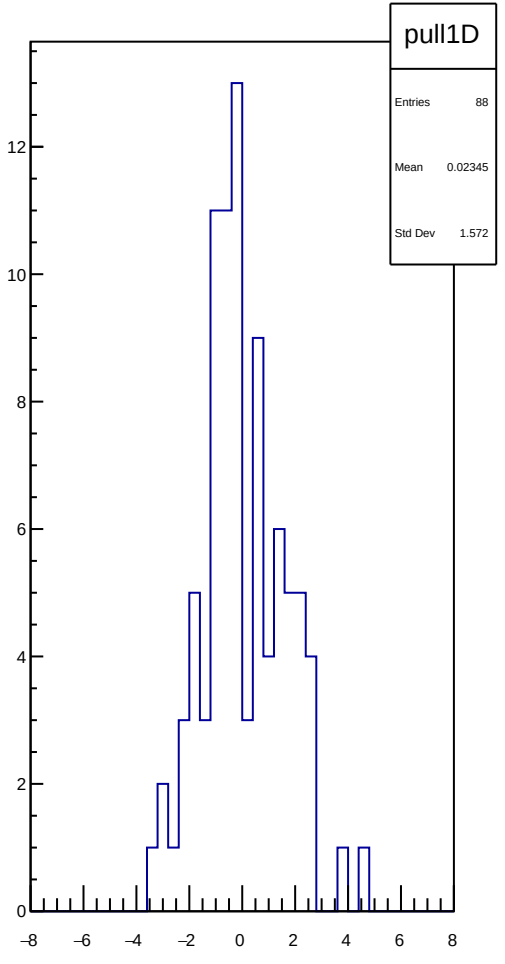

asym_bpm0i05WS_mean vs run
χ² / ndf 618.4 / 87
p0 −5442 ± 200.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1939
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 88
Mean 0.02822
Std Dev 2.651
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

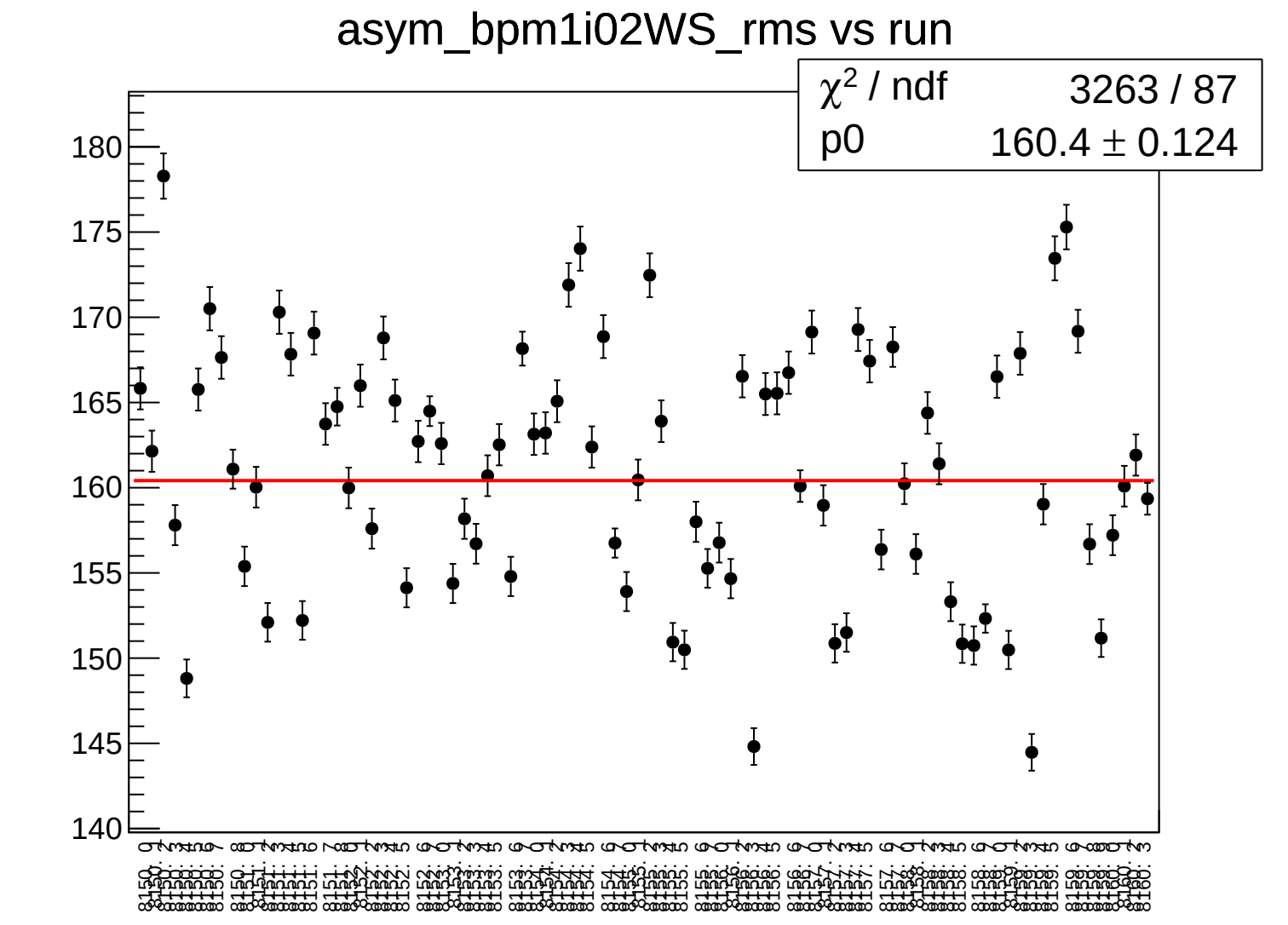

asym_bpm0i05WS_rms vs run
χ² / ndf 4176 / 87
p0 183.7 ± 0.142
210
200
190
180
170
160

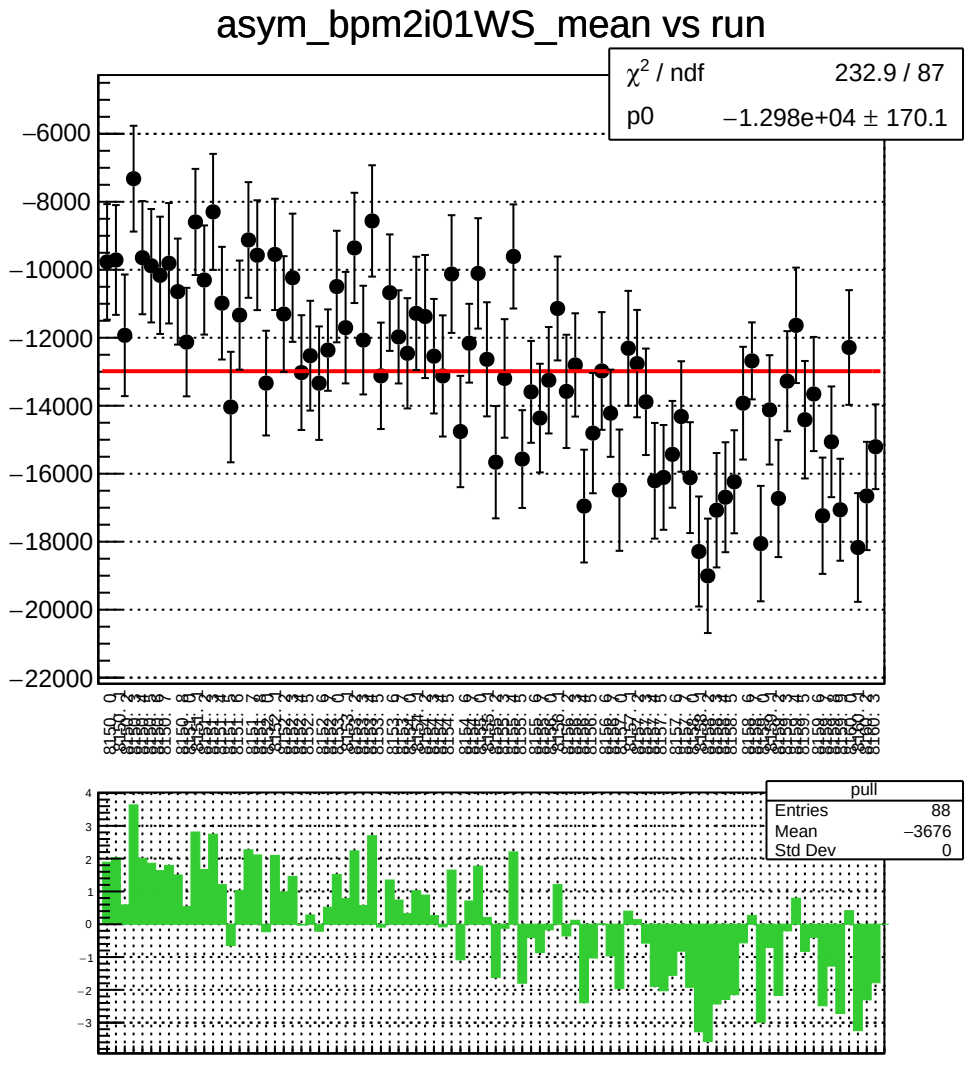

asym_bpm0i07WS_mean vs run
χ² / ndf 91.46 / 87
p0 2034 ± 1669
pull
Entries 88
Mean −80.36
Std Dev 0
pull1D
Entries 88
Mean 0.005741
Std Dev 1.019

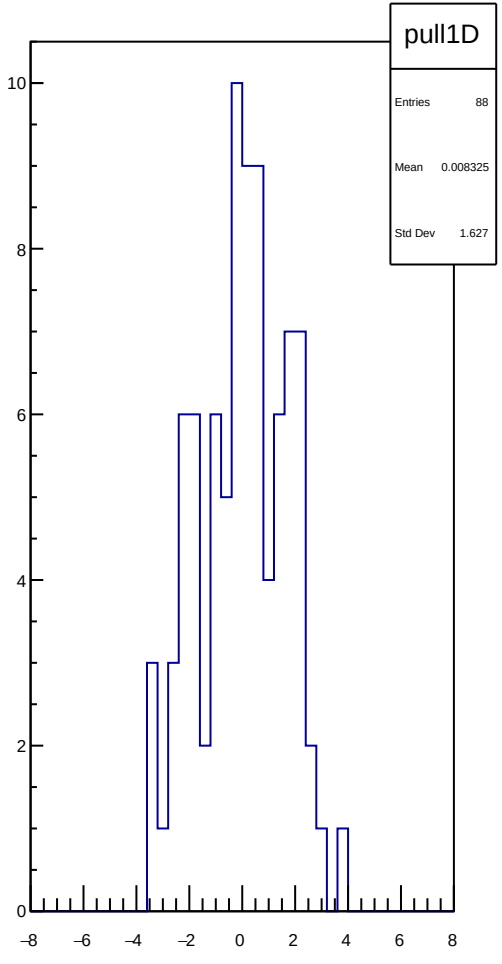

asym_bpm0i07WS_rms vs run
χ² / ndf 1.841e+04 / 87
p0 1520 ± 1.18
2000
1800
1600
1400
1200

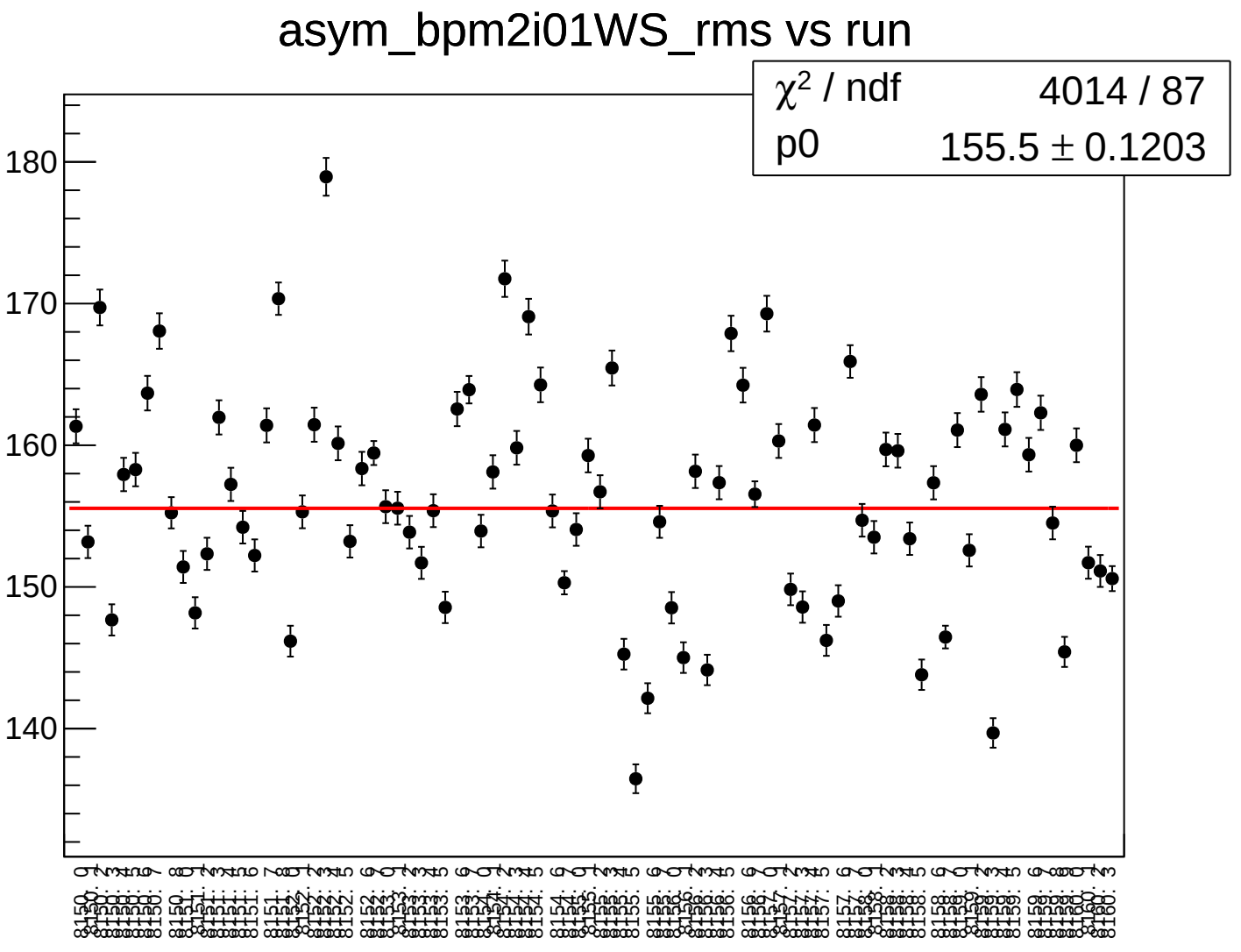

asym_bpm1i02WS_mean vs run
χ² / ndf 217.5 / 87
p0 −1.27e+04 ± 175.4
pull
Entries 88
Mean −1232
Std Dev 0

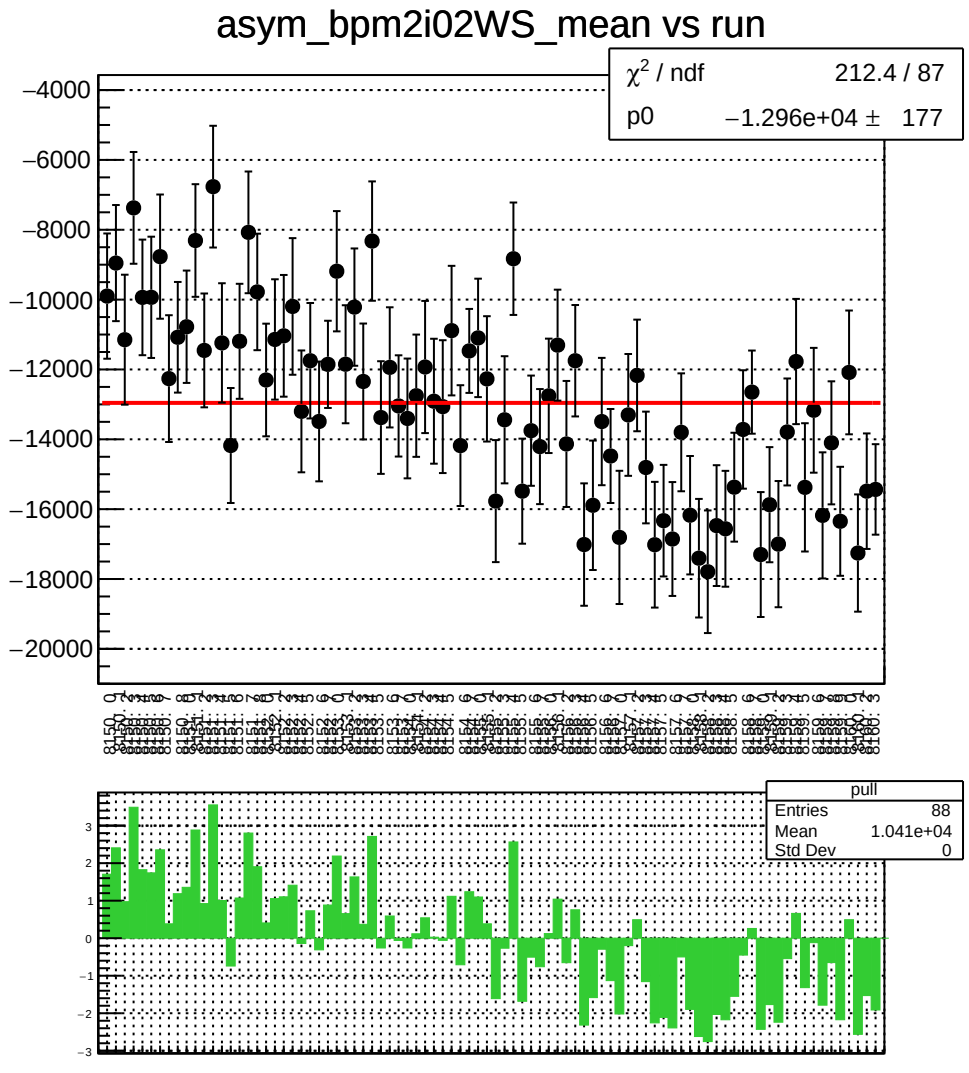

pull1D
Entries 88
Mean 0.02345
Std Dev 1.572

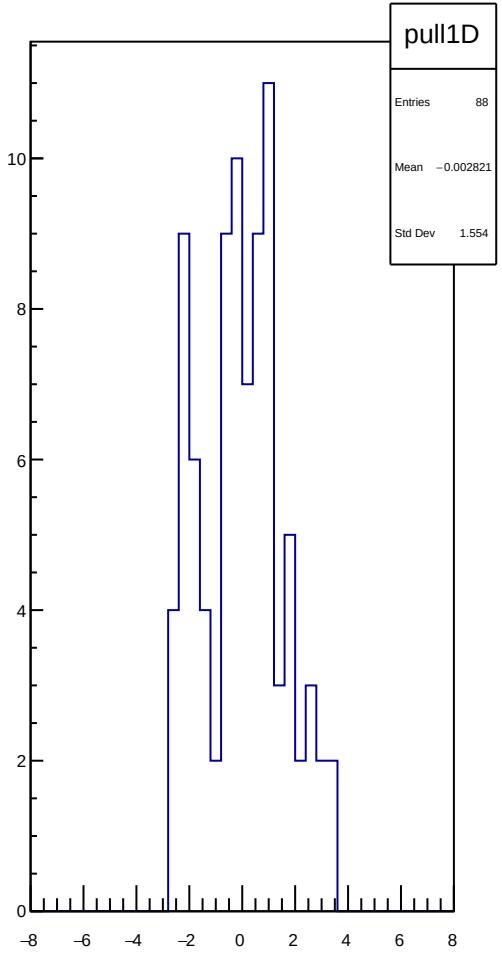

asym_bpm1i02WS_rms vs run
χ² / ndf 3263 / 87
p0 160.4 ± 0.124
180
175
170
165
160
155
150
145
140

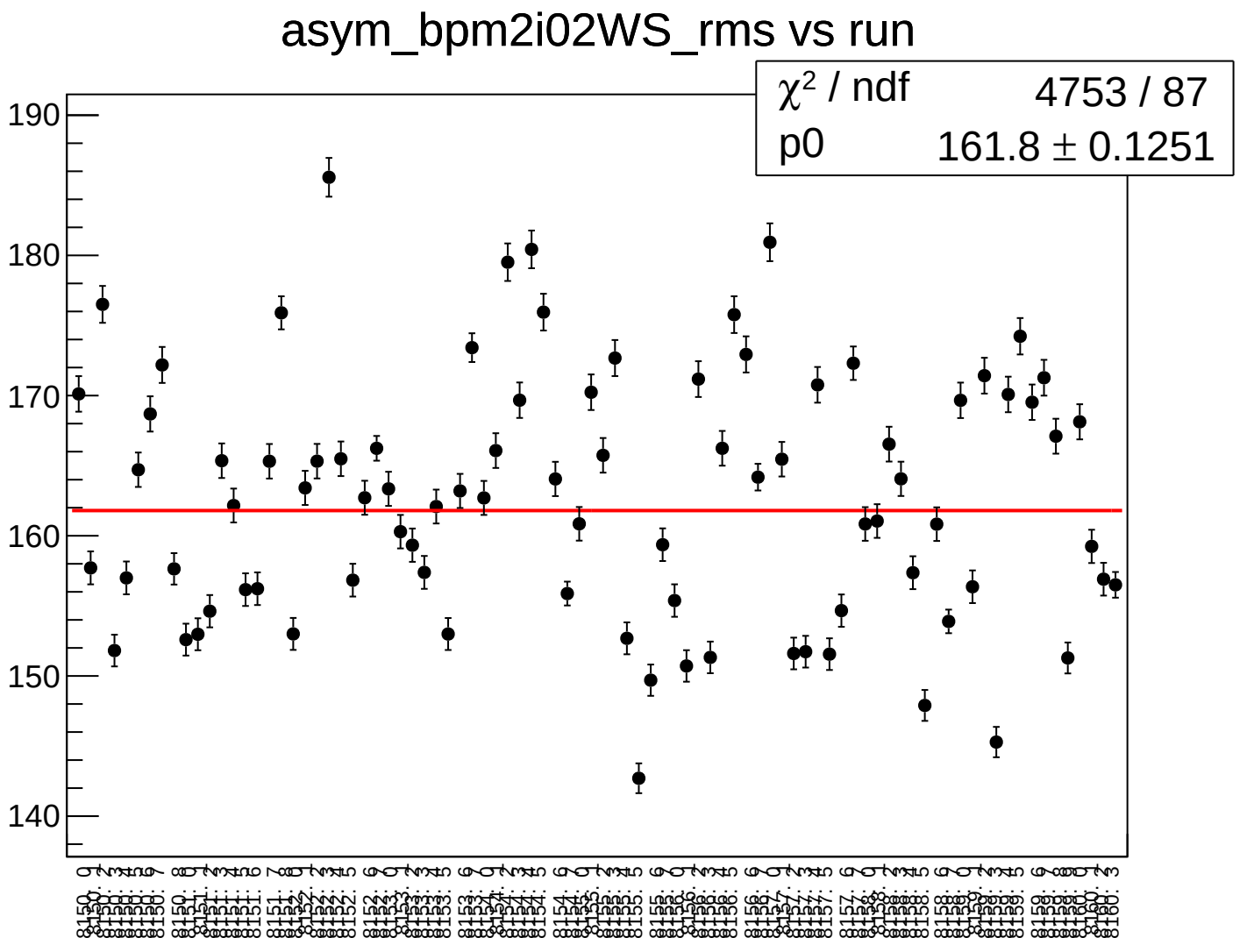

asym_bpm2i01WS_mean vs run
χ² / ndf 232.9 / 87
p0 −1.298e+04 ± 170.1
pull
Entries 88
Mean −3676
Std Dev 0

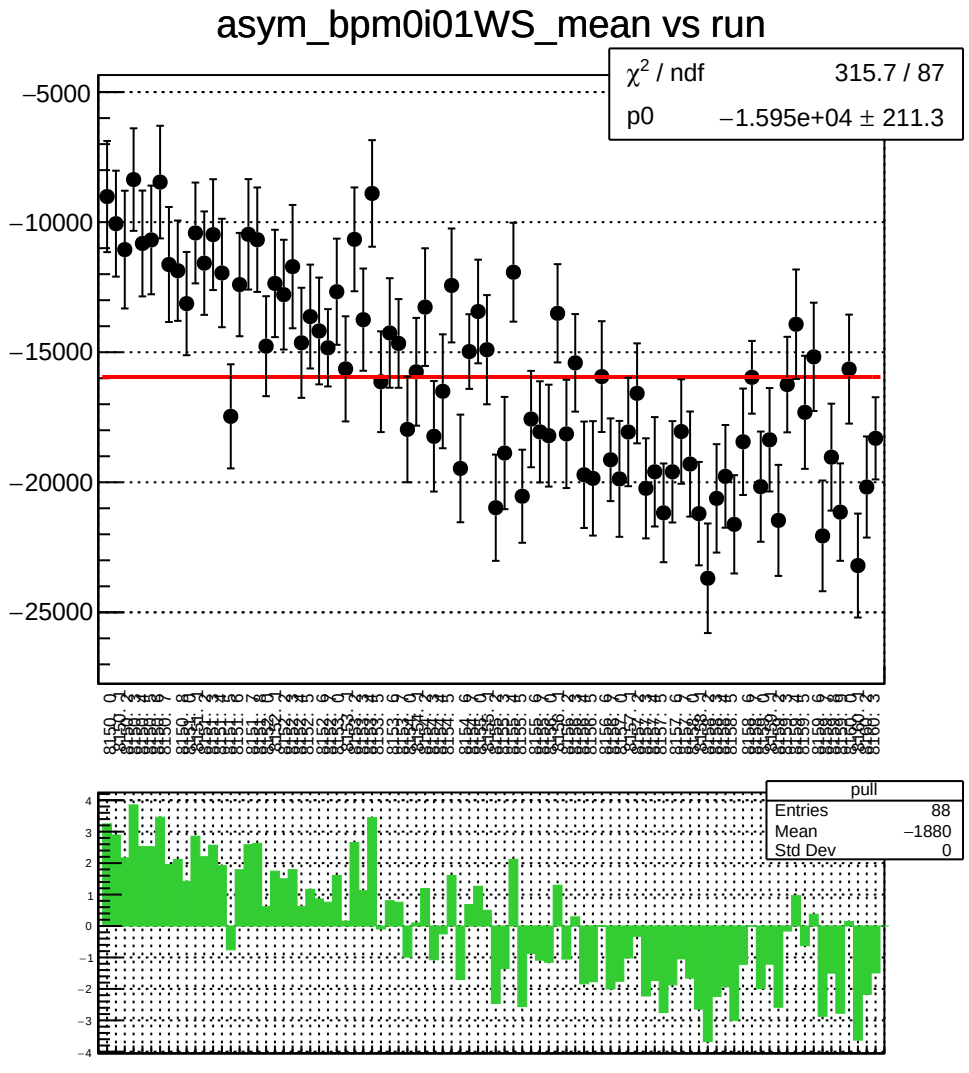

pull1D
Entries 88
Mean 0.008325
Std Dev 1.627

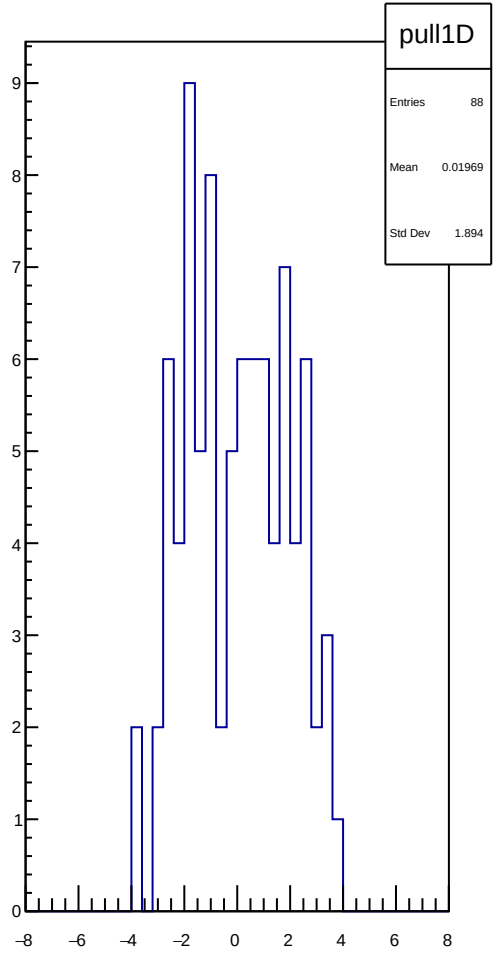

asym_bpm2i01WS_rms vs run
χ^2 / ndf 4014 / 87
p0 155.5 ± 0.1203
180
170
160
150
140

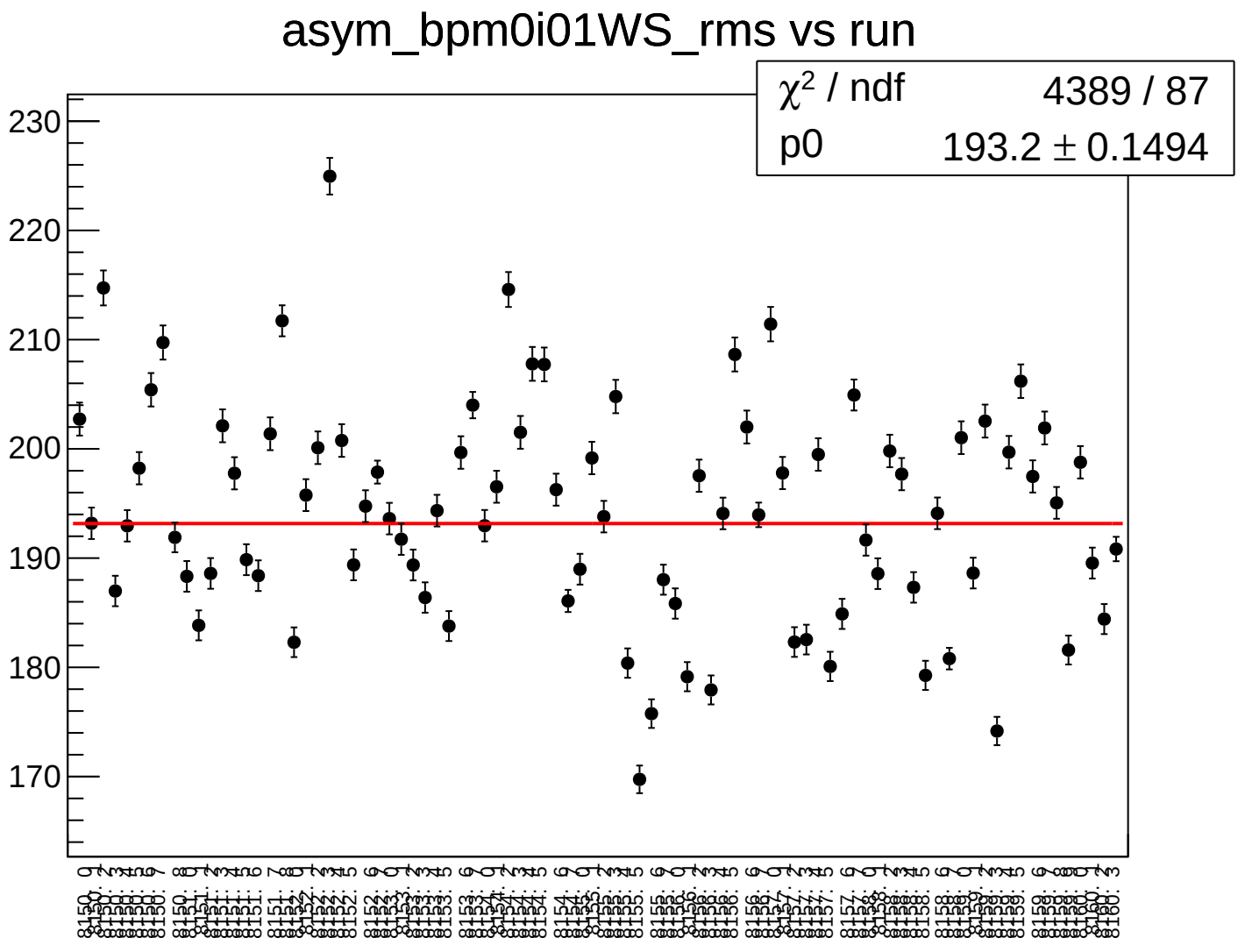

asym_bpm2i02WS_mean vs run
χ² / ndf 212.4 / 87
p0 −1.296e+04 ± 177
pull
Entries 88
Mean 1.041e+04
Std Dev 0

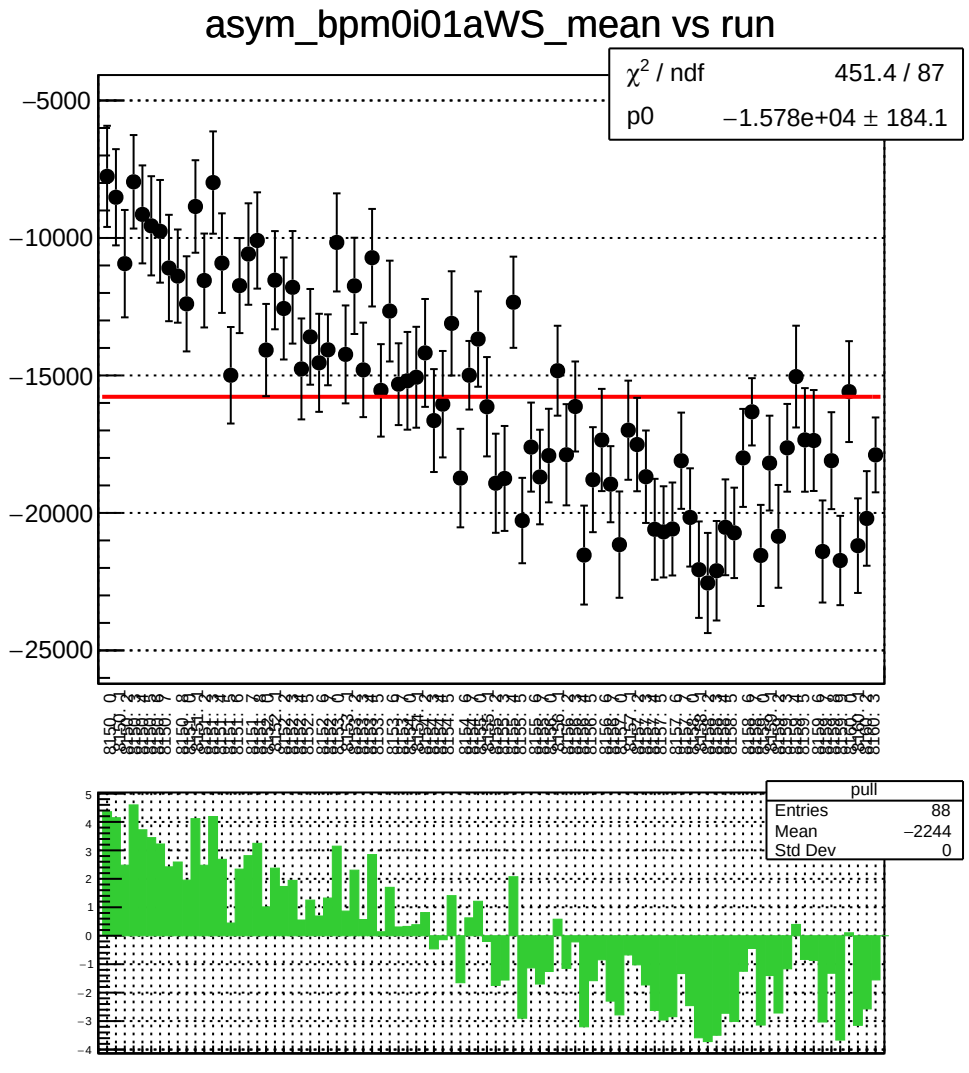

pull1D
Entries 88
Mean −0.002821
Std Dev 1.554

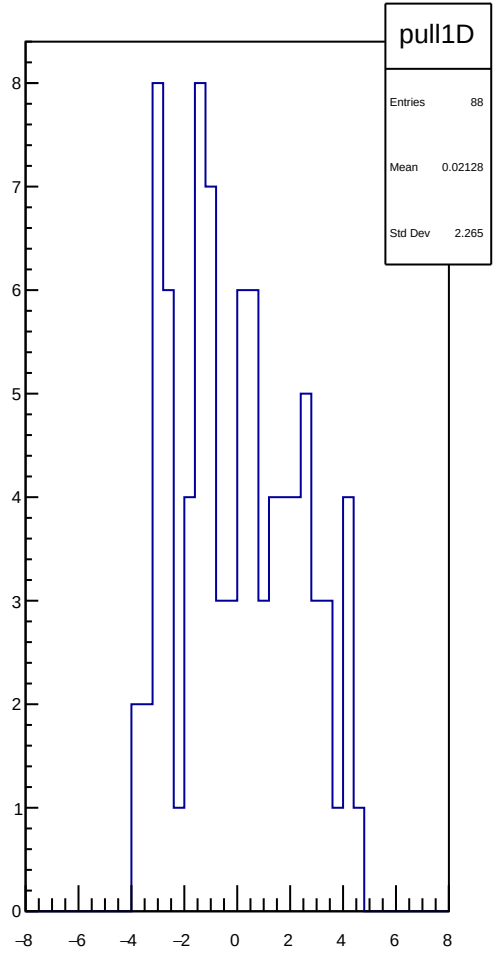

asym_bpm2i02WS_rms vs run
χ² / ndf 4753 / 87
p0 161.8 ± 0.1251
190
180
170
160
150
140

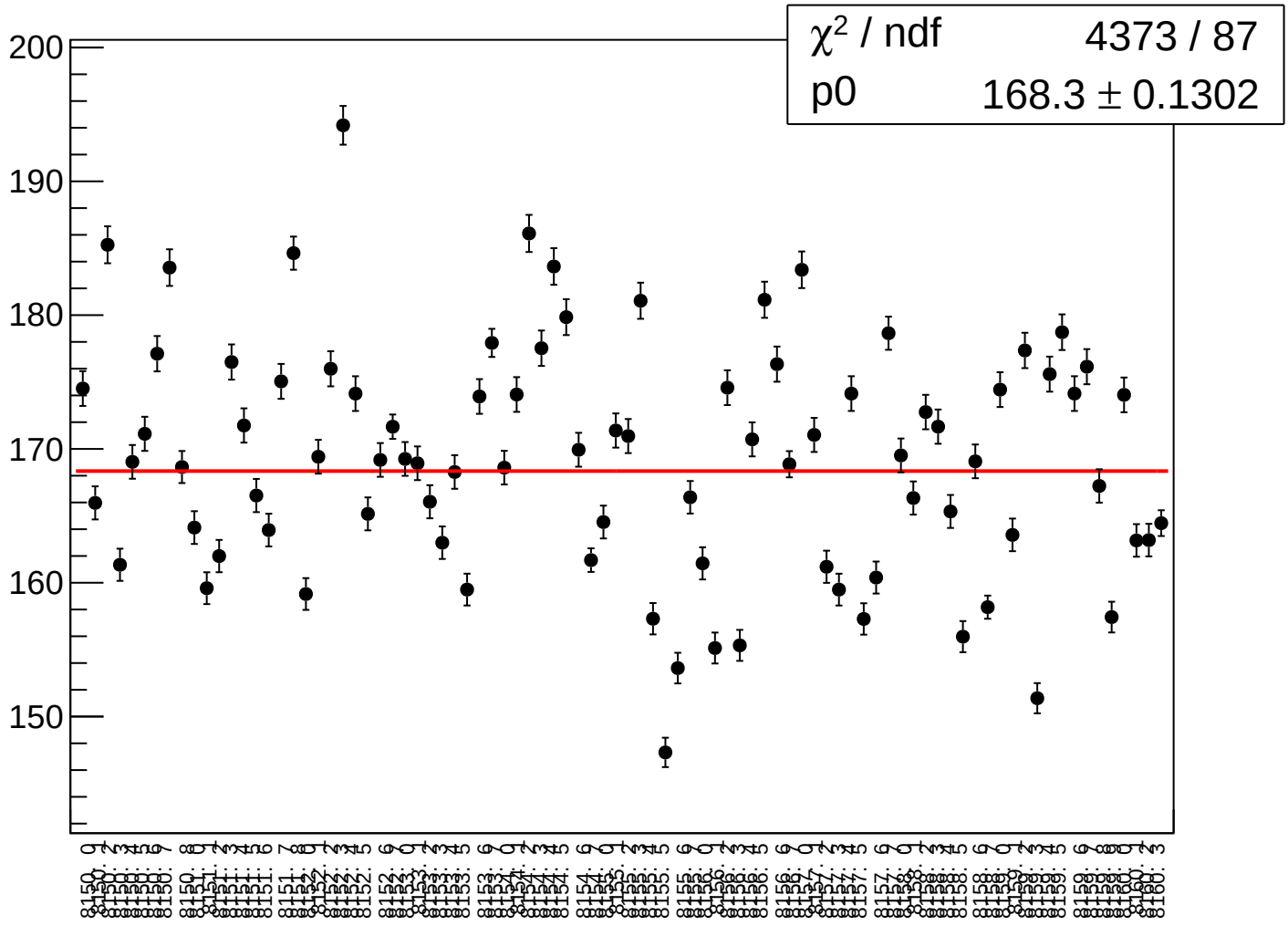

asym_bpm0i01WS_mean vs run
χ² / ndf 315.7 / 87
p0 −1.595e+04 ± 211.3
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean −1880
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

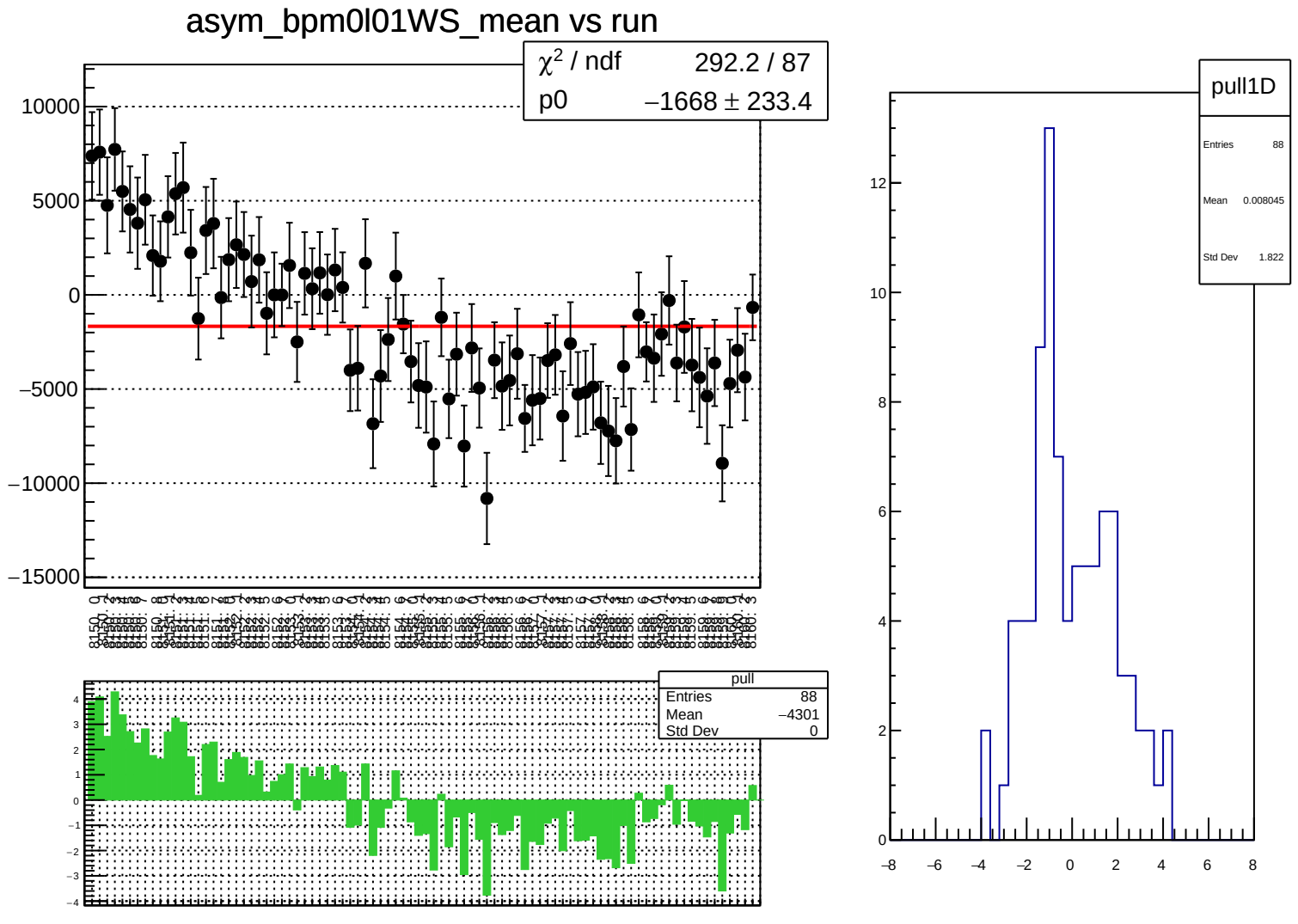

pull1D
Entries 88
Mean 0.01969
Std Dev 1.894
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

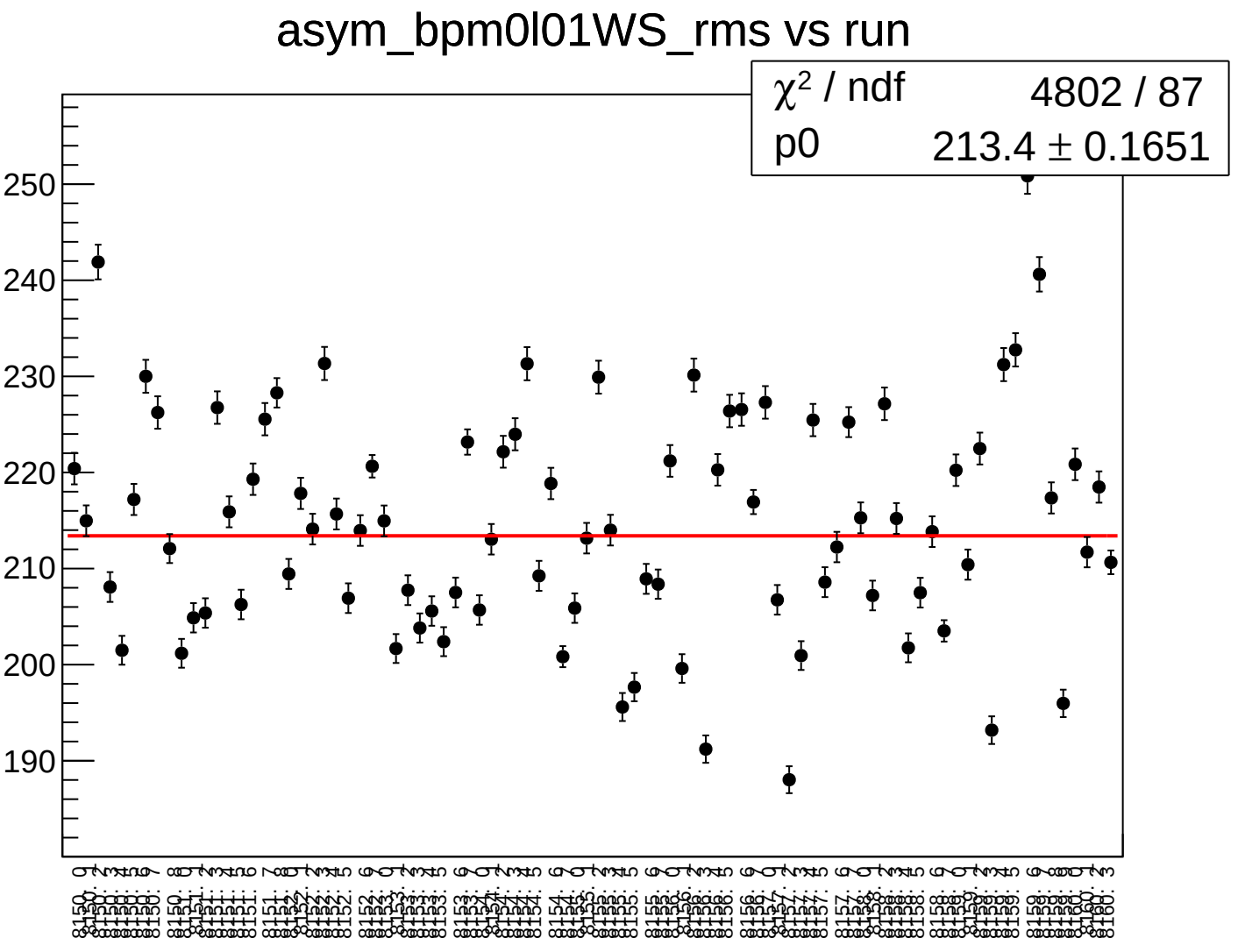

asym_bpm0i01WS_rms vs run
χ² / ndf 4389 / 87
p0 193.2 ± 0.1494
230
220
210
200
190
180
170

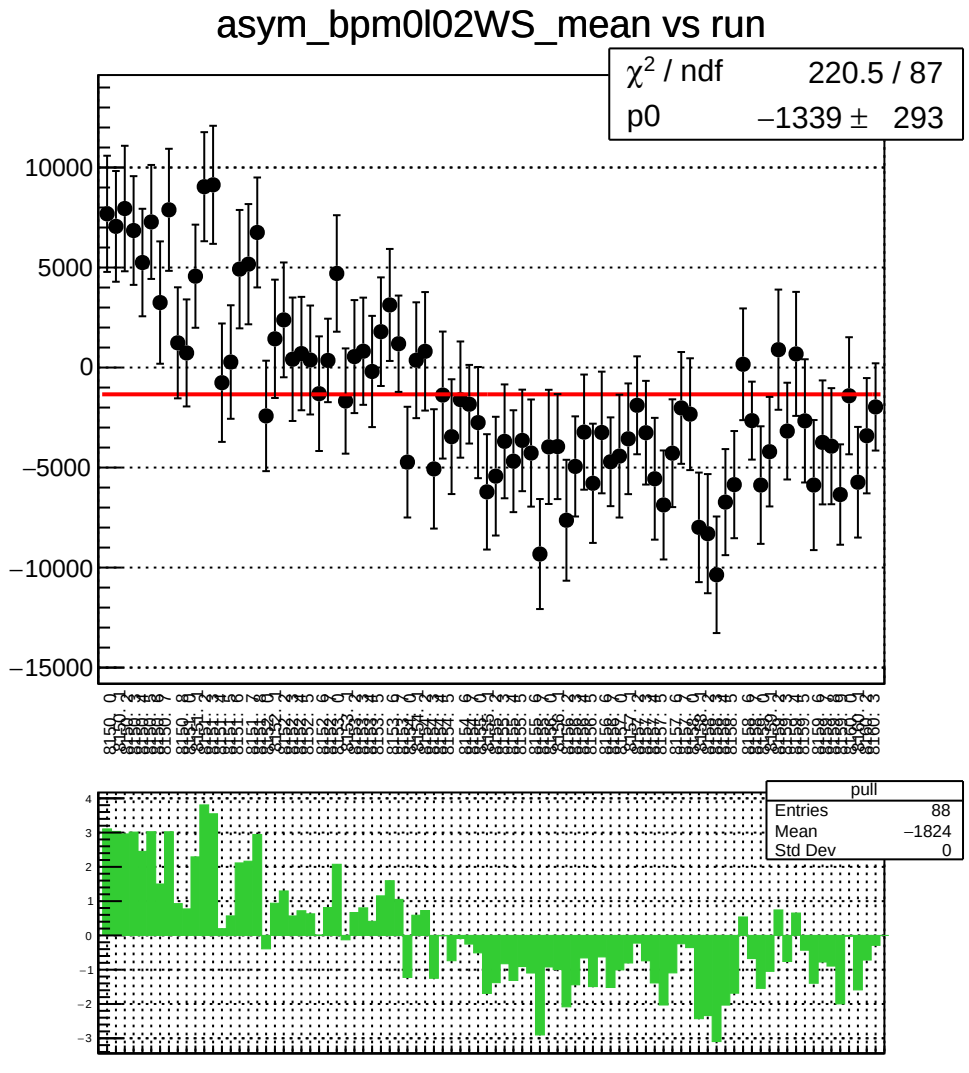

asym_bpm0i01aWS_mean vs run
χ² / ndf 451.4 / 87
p0 −1.578e+04 ± 184.1
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean −2244
Std Dev 0

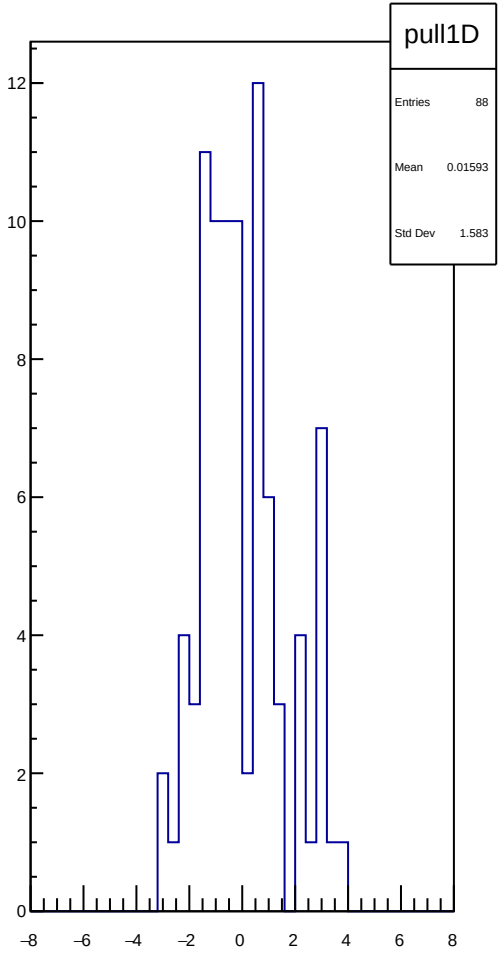

pull1D
Entries 88
Mean 0.02128
Std Dev 2.265

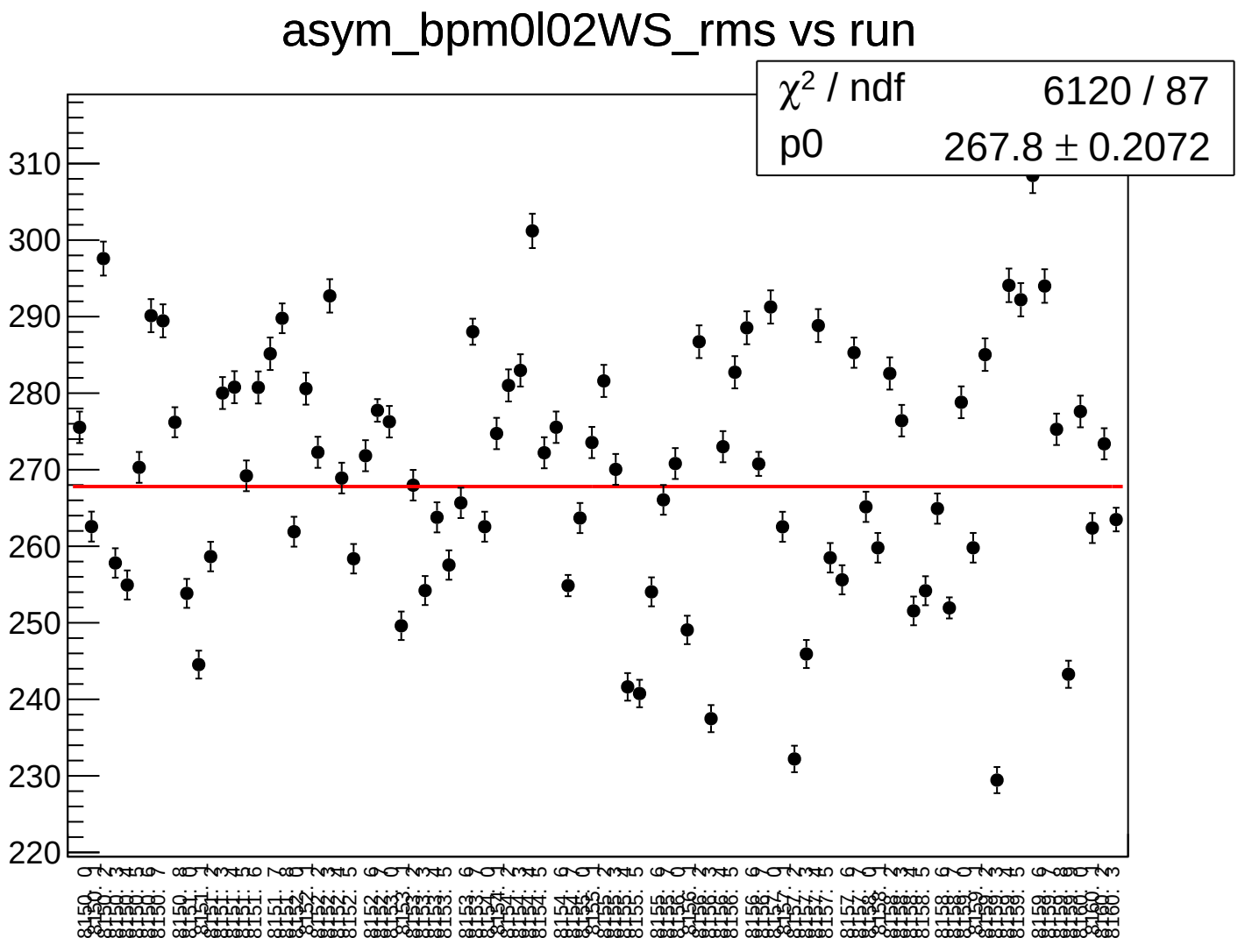

asym_bpm0i01aWS_rms vs run
χ² / ndf 4373 / 87
p0 168.3 ± 0.1302
200
190
180
170
160
150

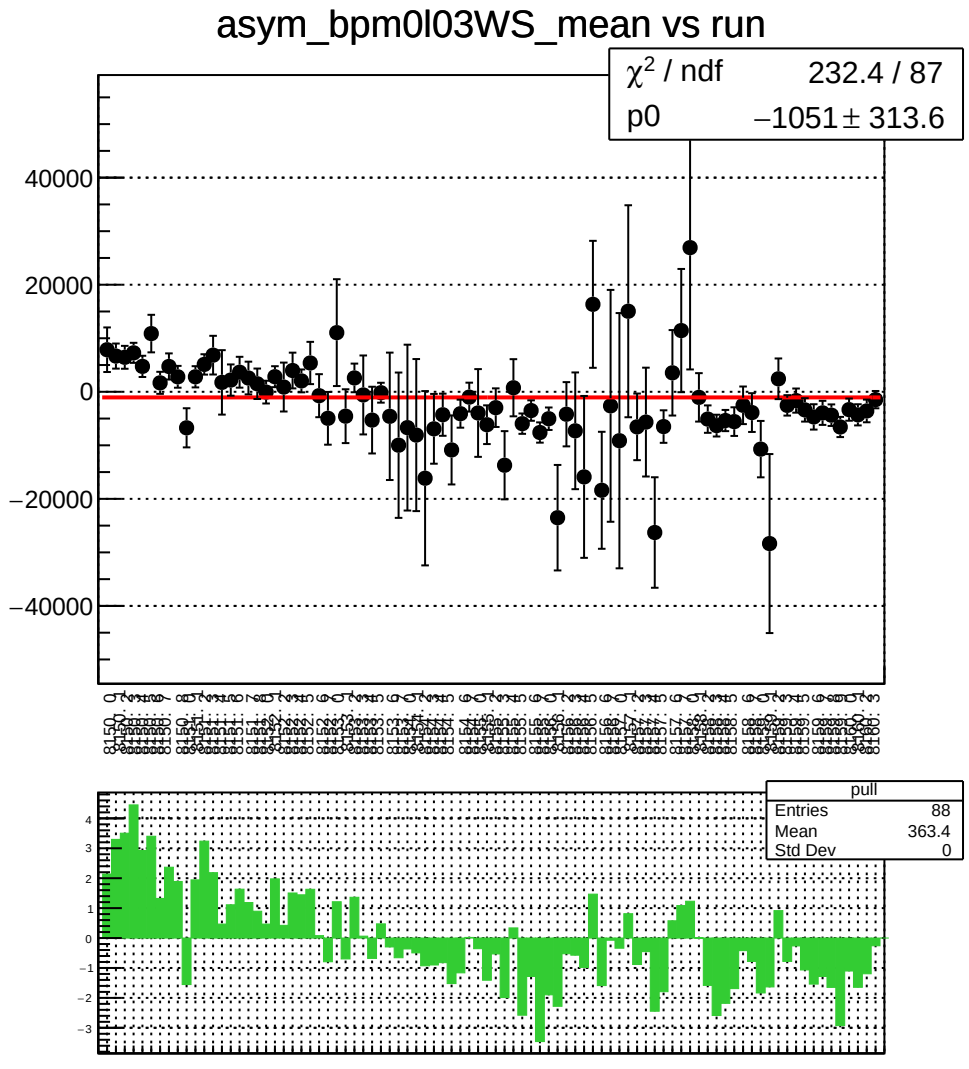

asym_bpm0l01WS_mean vs run
χ² / ndf 292.2 / 87
p0 −1668 ± 233.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −4301
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 88
Mean 0.008045
Std Dev 1.822
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

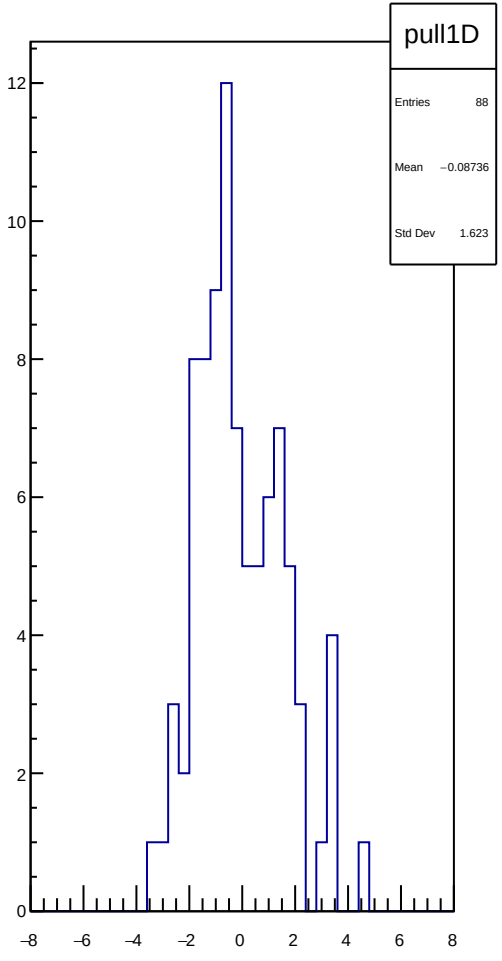

asym_bpm0l01WS_rms vs run
χ² / ndf 4802 / 87
p0 213.4 ± 0.1651
250
240
230
220
210
200
190

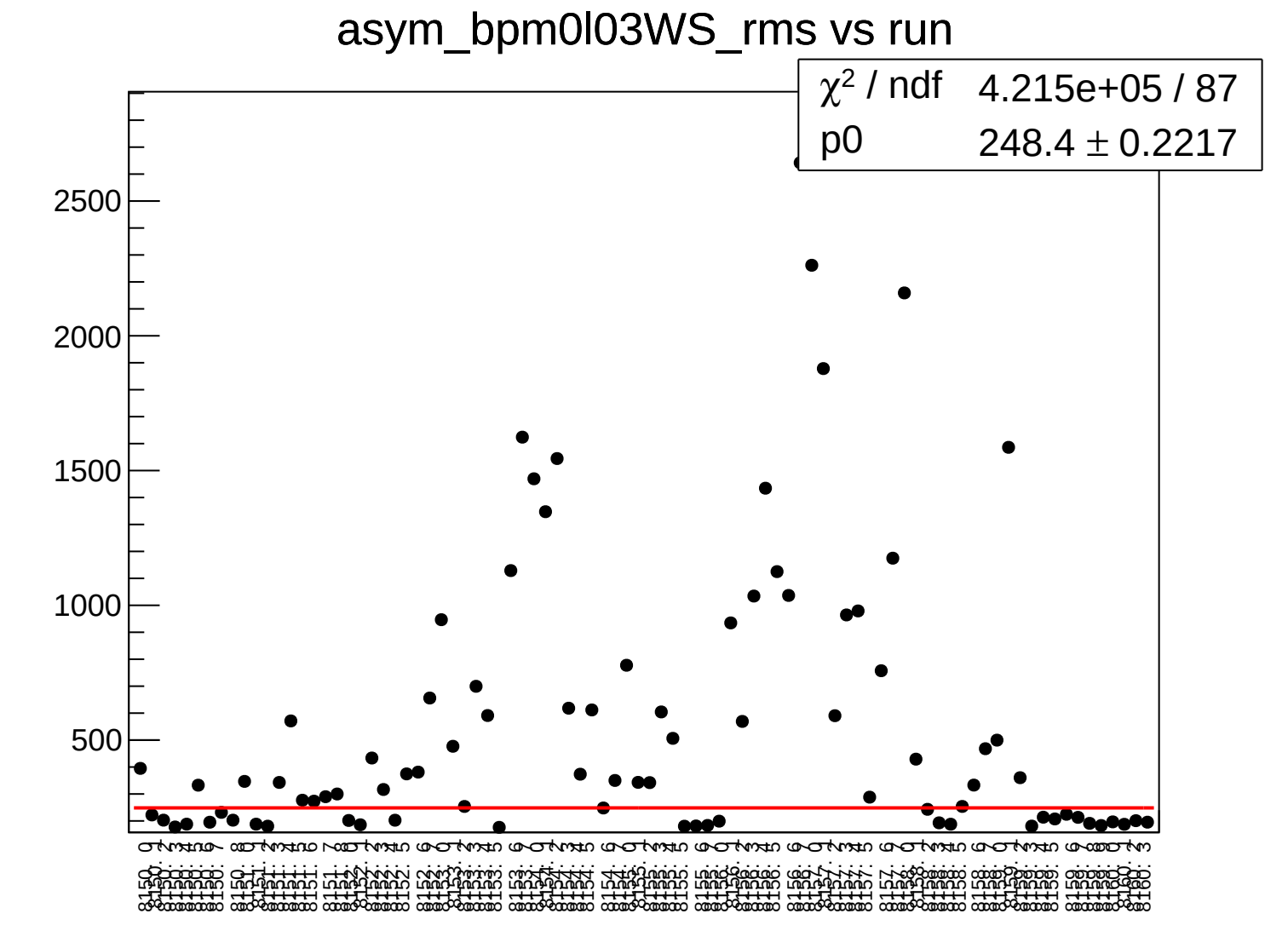

asym_bpm0l02WS_mean vs run
χ² / ndf 220.5 / 87
p0 −1339 ± 293
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1824
Std Dev 0
4
3
2
1
0
−1
−2
−3

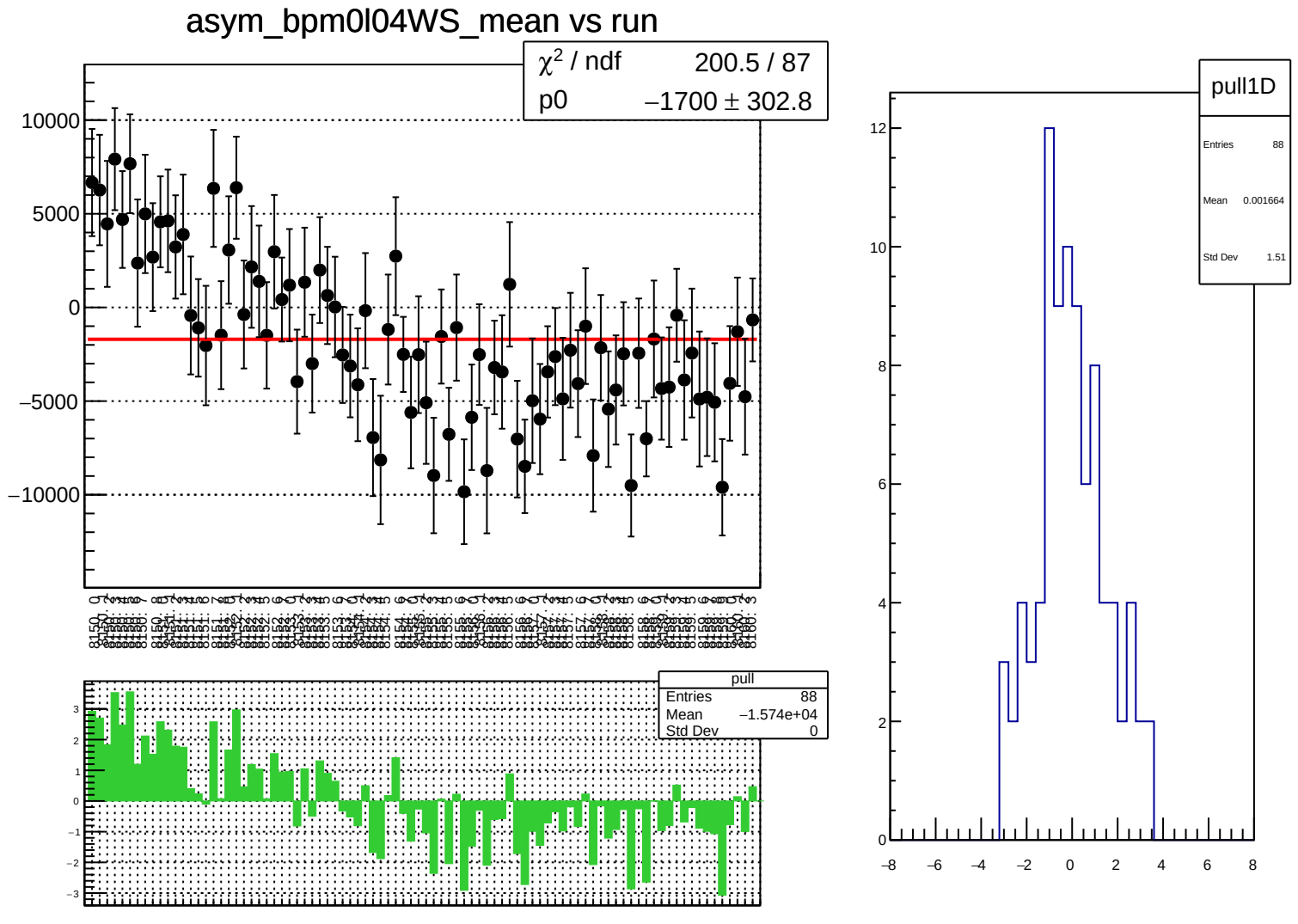

pull1D
Entries 88
Mean 0.01593
Std Dev 1.583
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

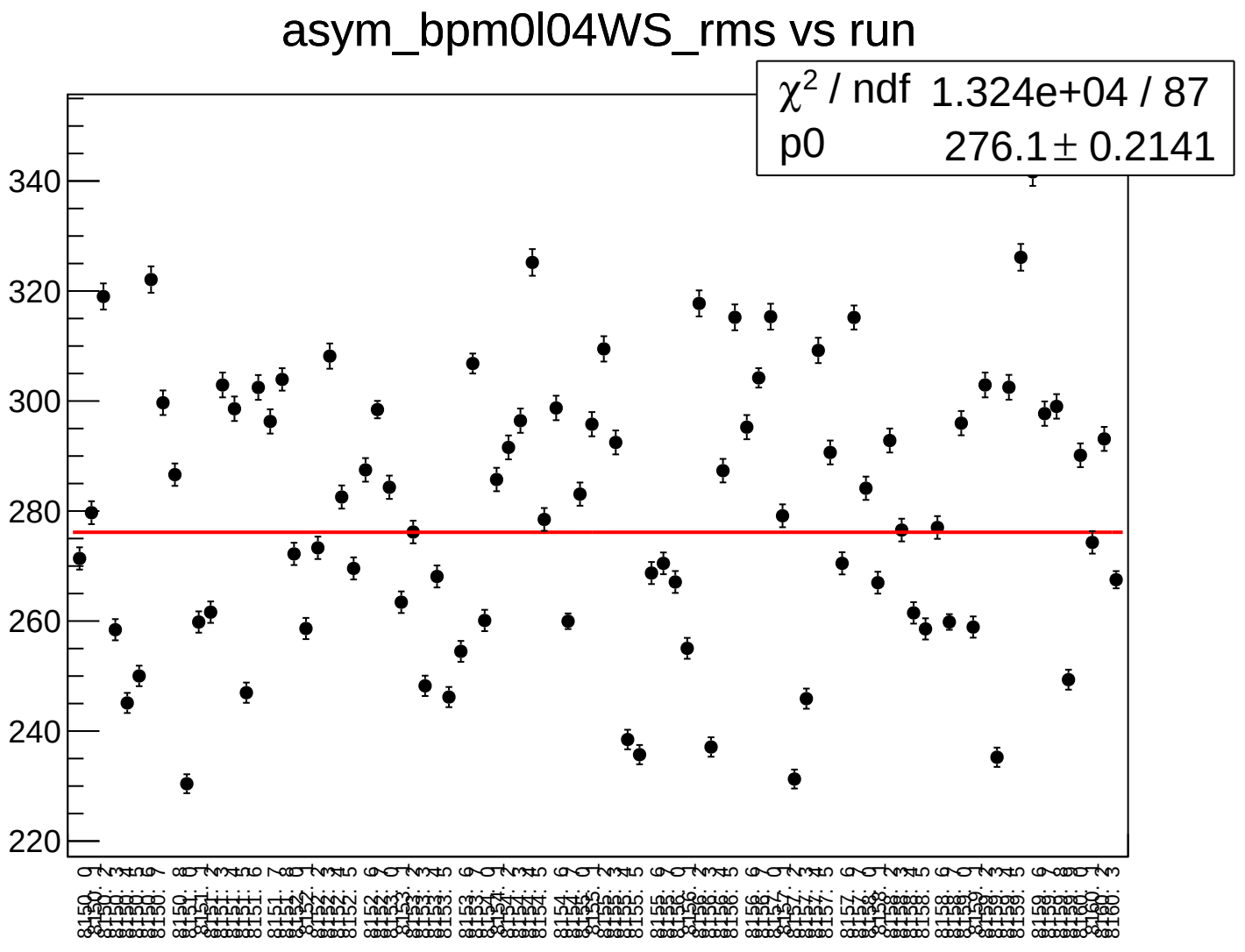

asym_bpm0l02WS_rms vs run
χ² / ndf 6120 / 87
p0 267.8 ± 0.2072
310
300
290
280
270
260
250
240
230
220

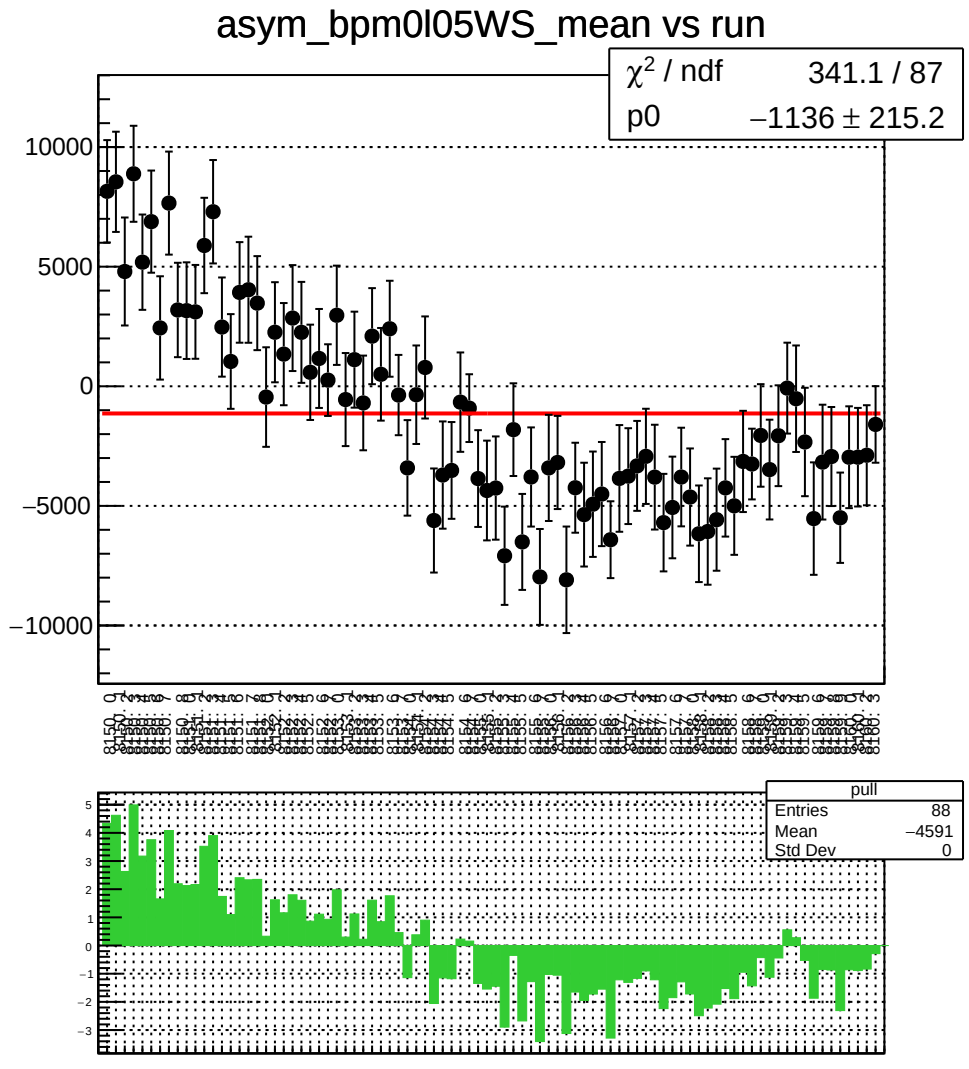

asym_bpm0l03WS_mean vs run
χ² / ndf 232.4 / 87
p0 −1051 ± 313.6
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 363.4
Std Dev 0
4
3
2
1
0
−1
−2
−3

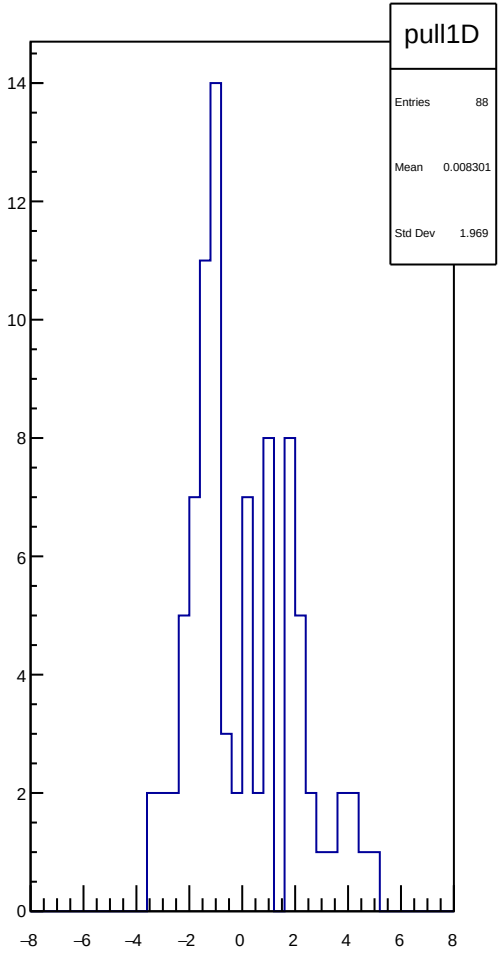

pull1D
Entries 88
Mean −0.08736
Std Dev 1.623
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

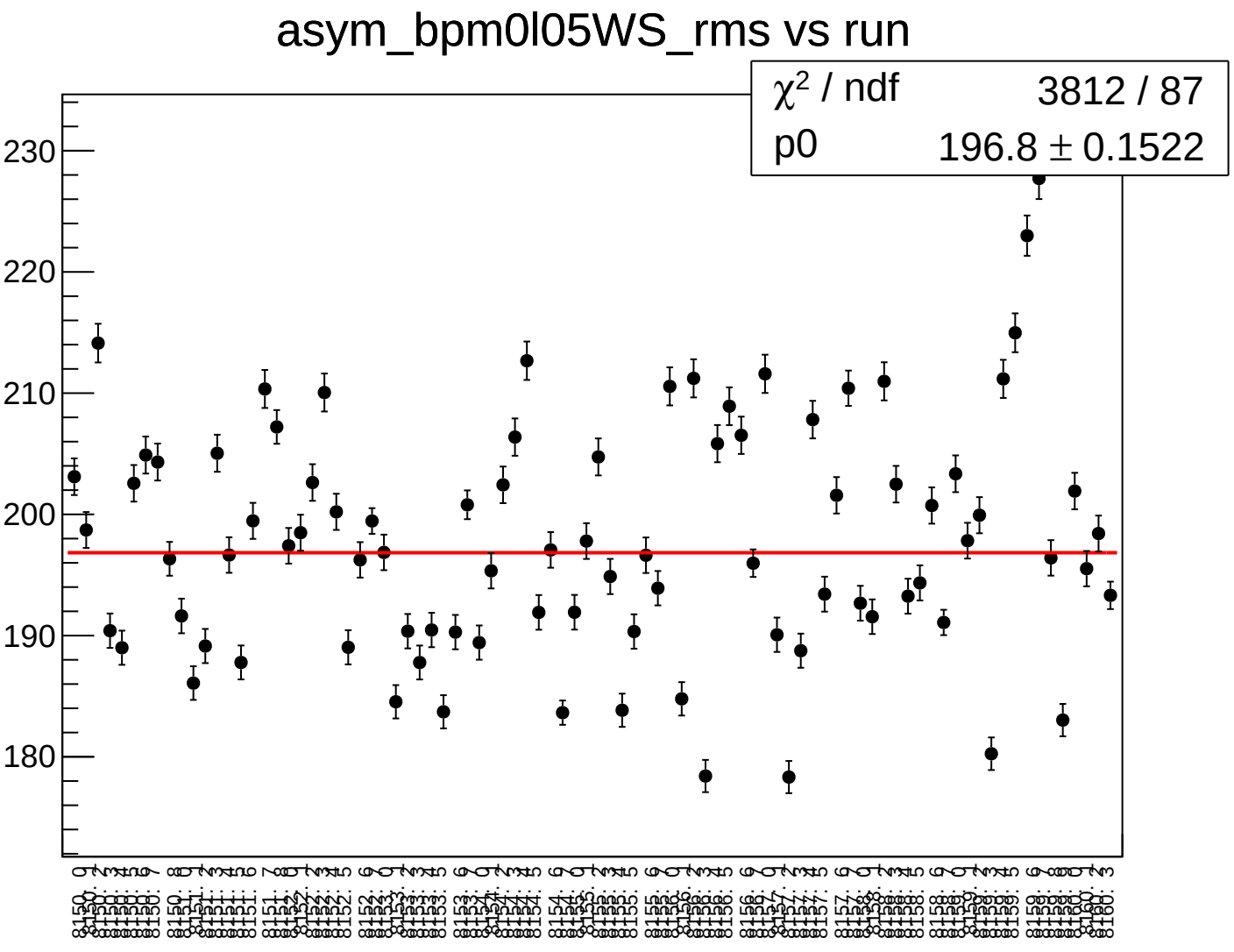

asym_bpm0l03WS_rms vs run
χ² / ndf 4.215e+05 / 87
p0 248.4 ± 0.2217
2500
2000
1500
1000
500

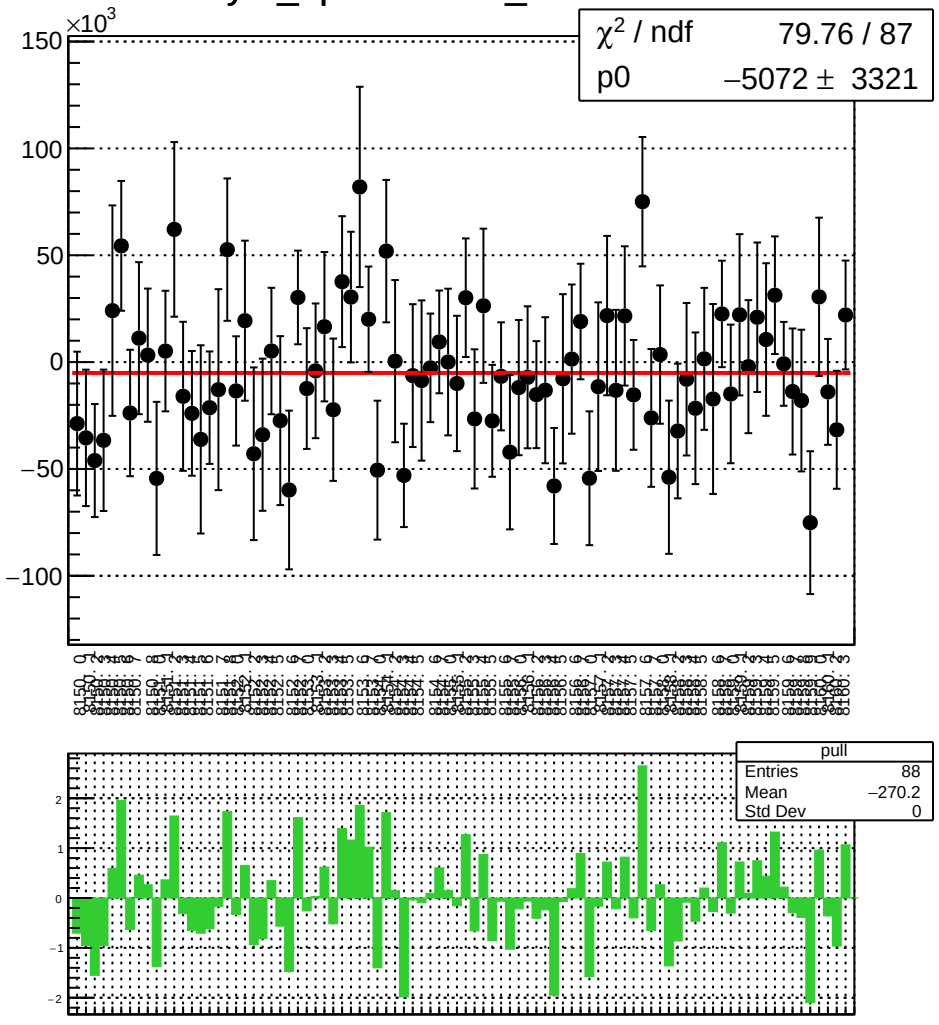

asym_bpm0l04WS_mean vs run
χ² / ndf 200.5 / 87
p0 −1700 ± 302.8
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −1.574e+04
Std Dev 0
pull1D
Entries 88
Mean 0.001664
Std Dev 1.51
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

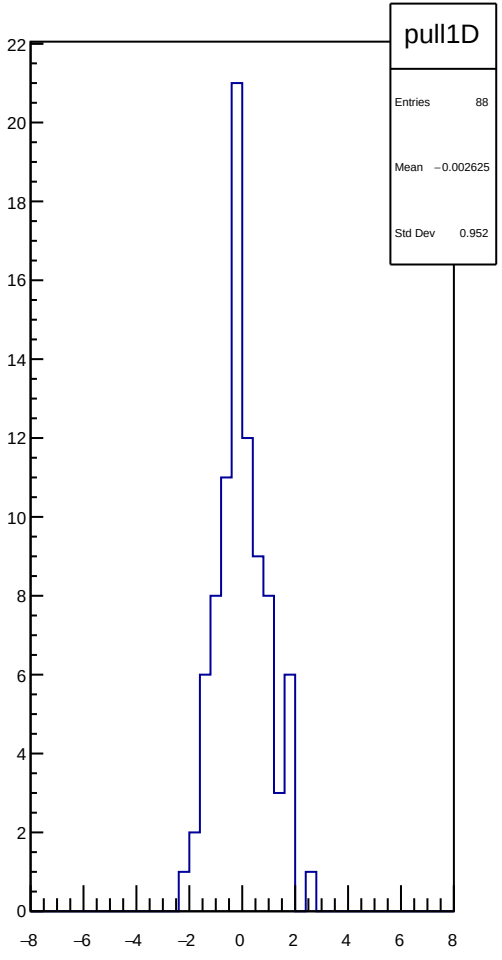

asym_bpm0l04WS_rms vs run
χ^2 / ndf 1.324e+04 / 87
p0 276.1 ± 0.2141
340
320
300
280
260
240
220

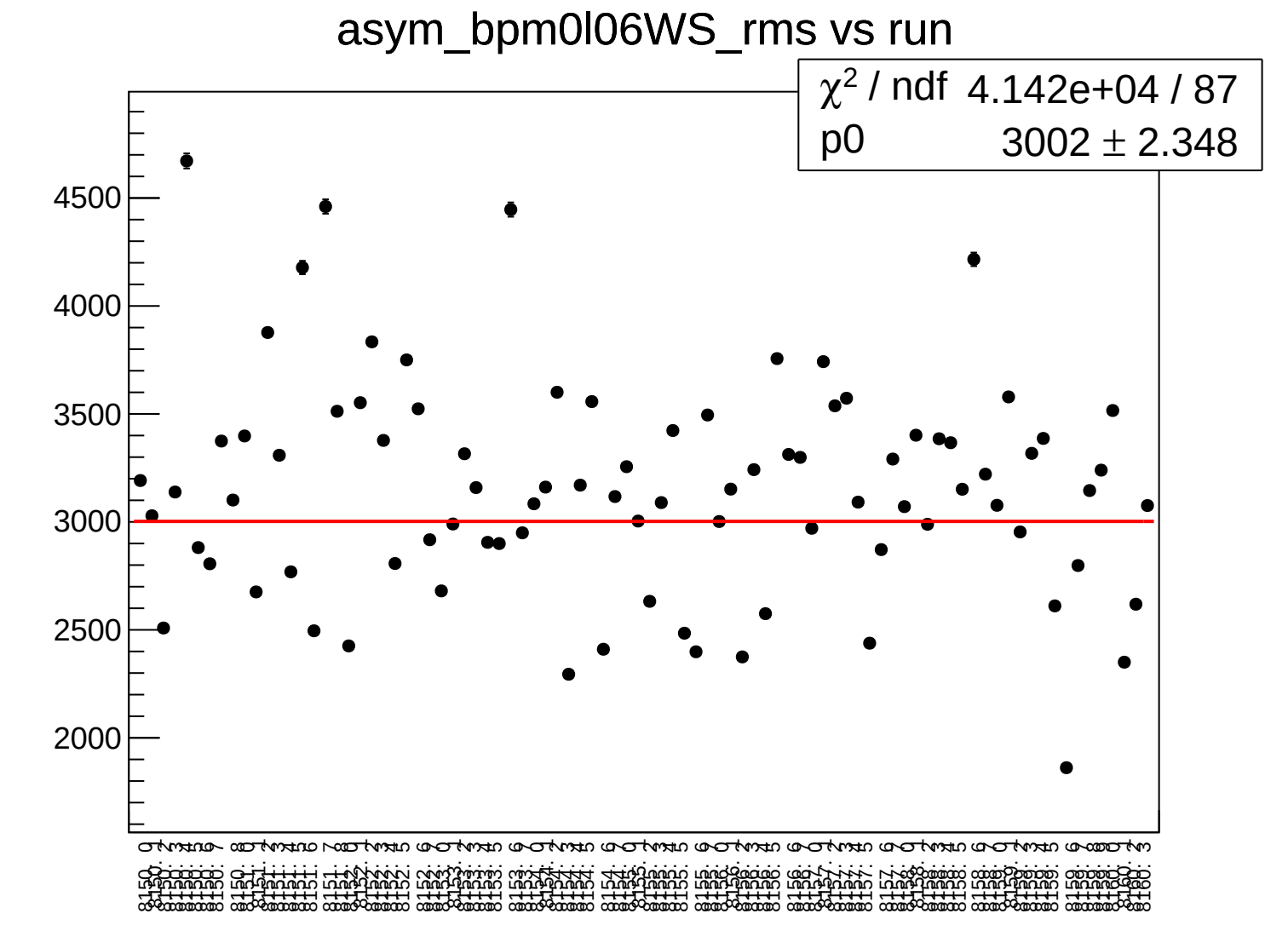

asym_bpm0l05WS_mean vs run
χ² / ndf 341.1 / 87
p0 −1136 ± 215.2
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −4591
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

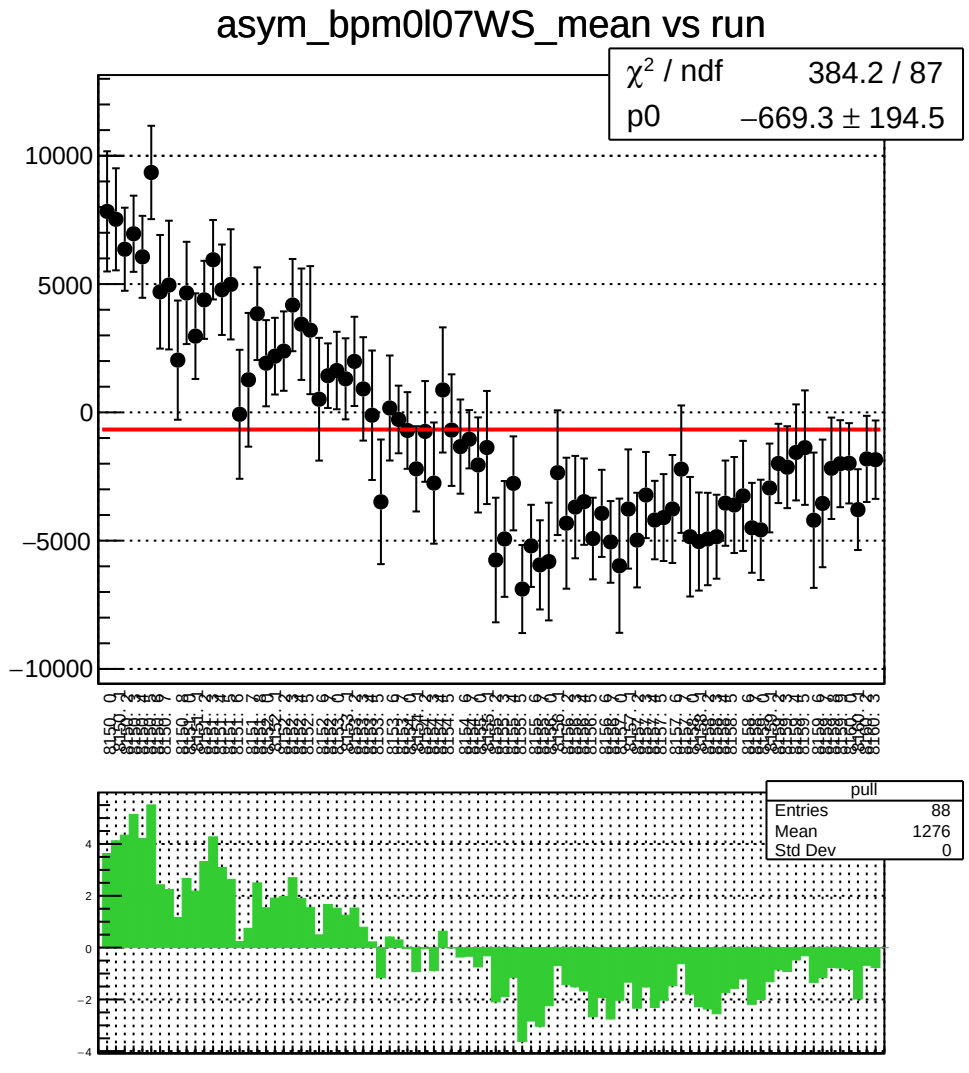

pull1D
Entries 88
Mean 0.008301
Std Dev 1.969
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

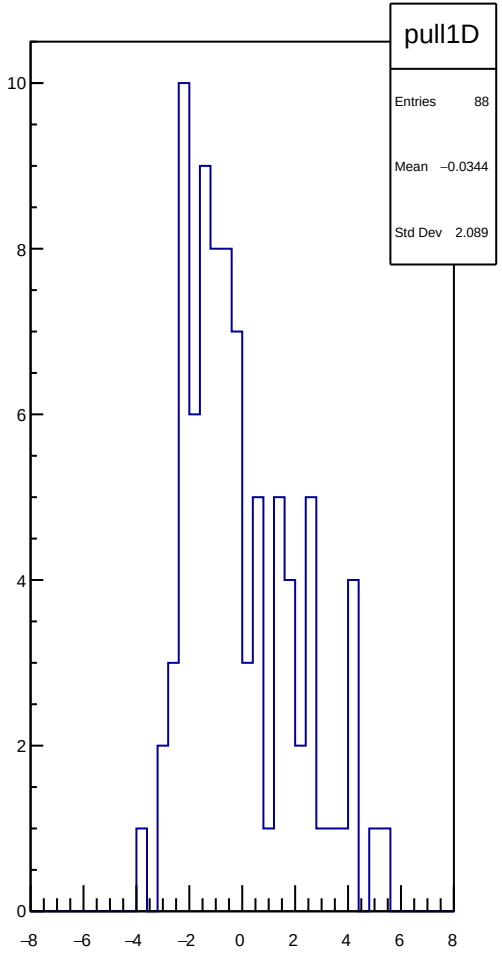

asym_bpm0l05WS_rms vs run
χ^2 / ndf 3812 / 87
p0 196.8 ± 0.1522
230
220
210
200
190
180

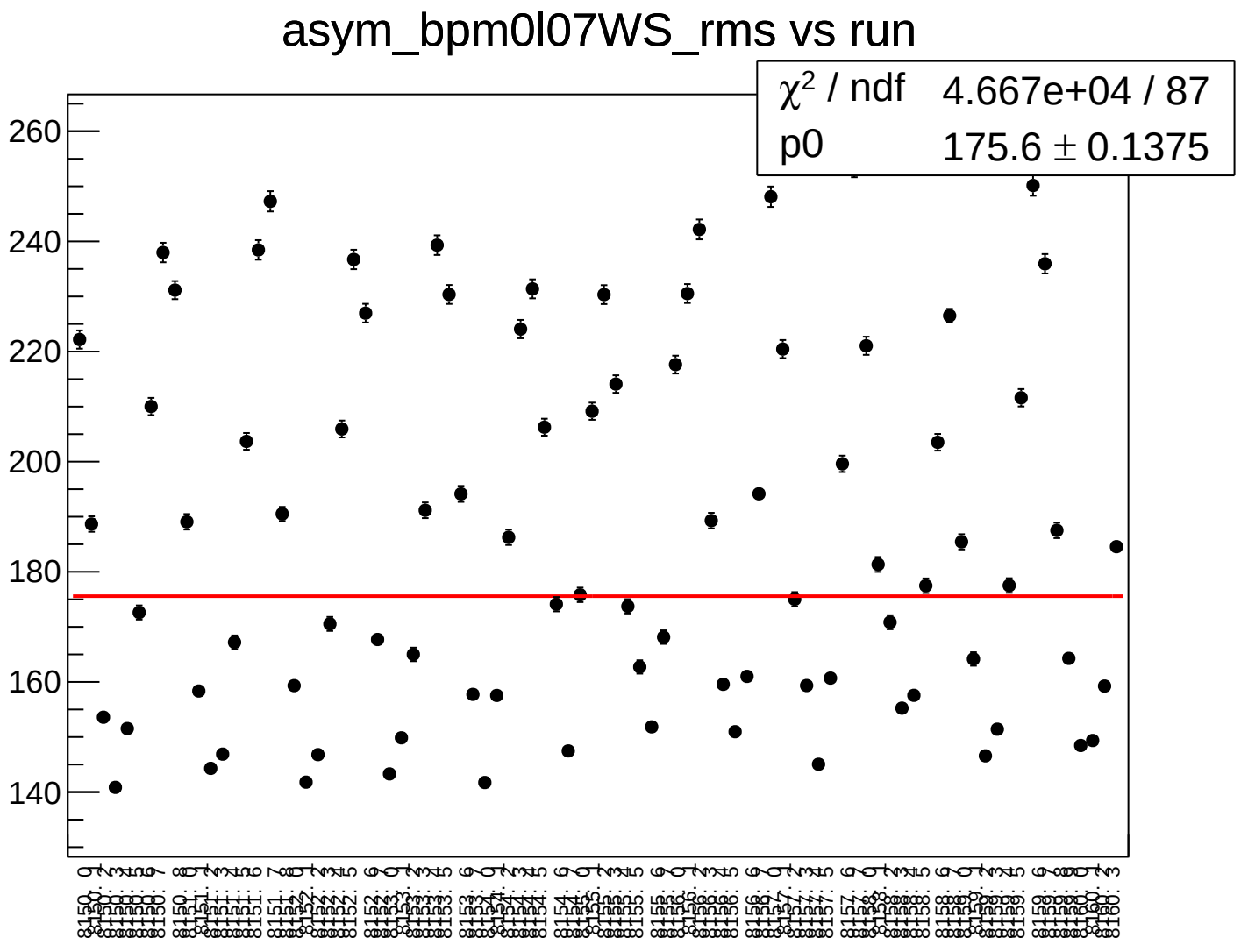

asym_bpm0l06WS_mean vs run
χ² / ndf 79.76 / 87
p0 −5072 ± 3321
×10³
150
100
50
0
−50
−100
pull
Entries 88
Mean −270.2
Std Dev 0
2
1
0
−1
−2

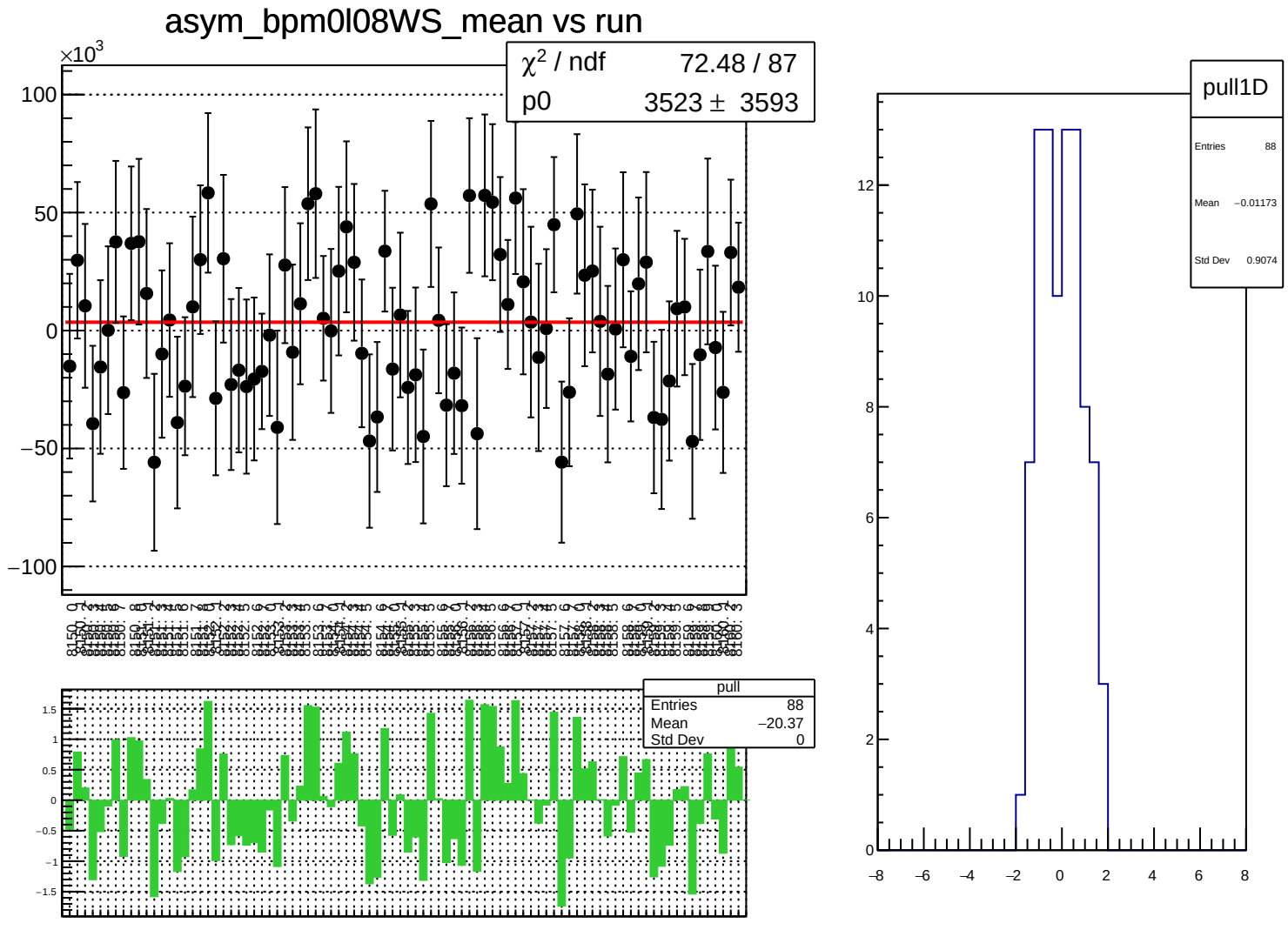

pull1D
Entries 88
Mean −0.002625
Std Dev 0.952
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

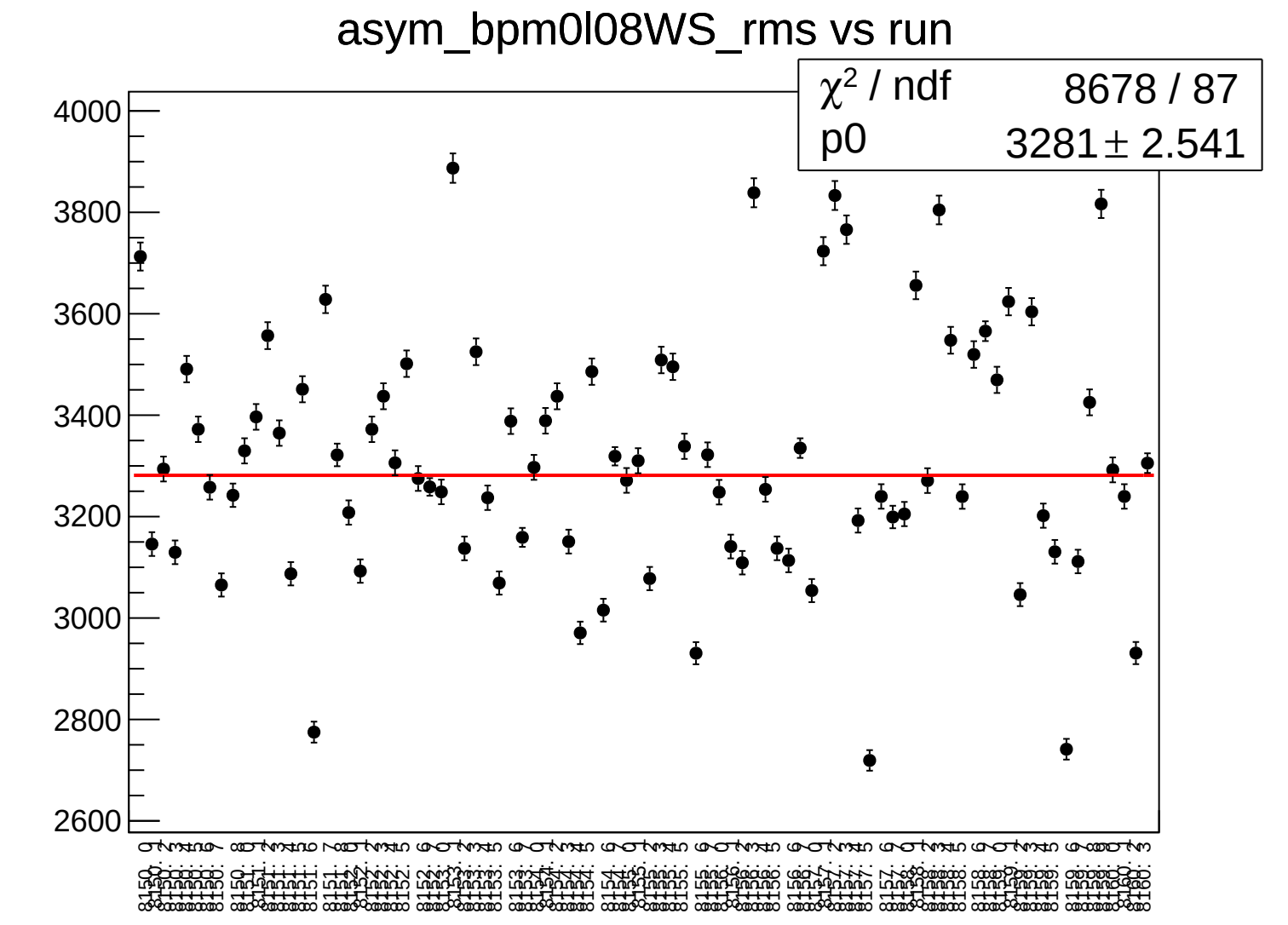

asym_bpm0l06WS_rms vs run
χ^2 / ndf 4.142e+04 / 87
p0 3002 ± 2.348
4500
4000
3500
3000
2500
2000

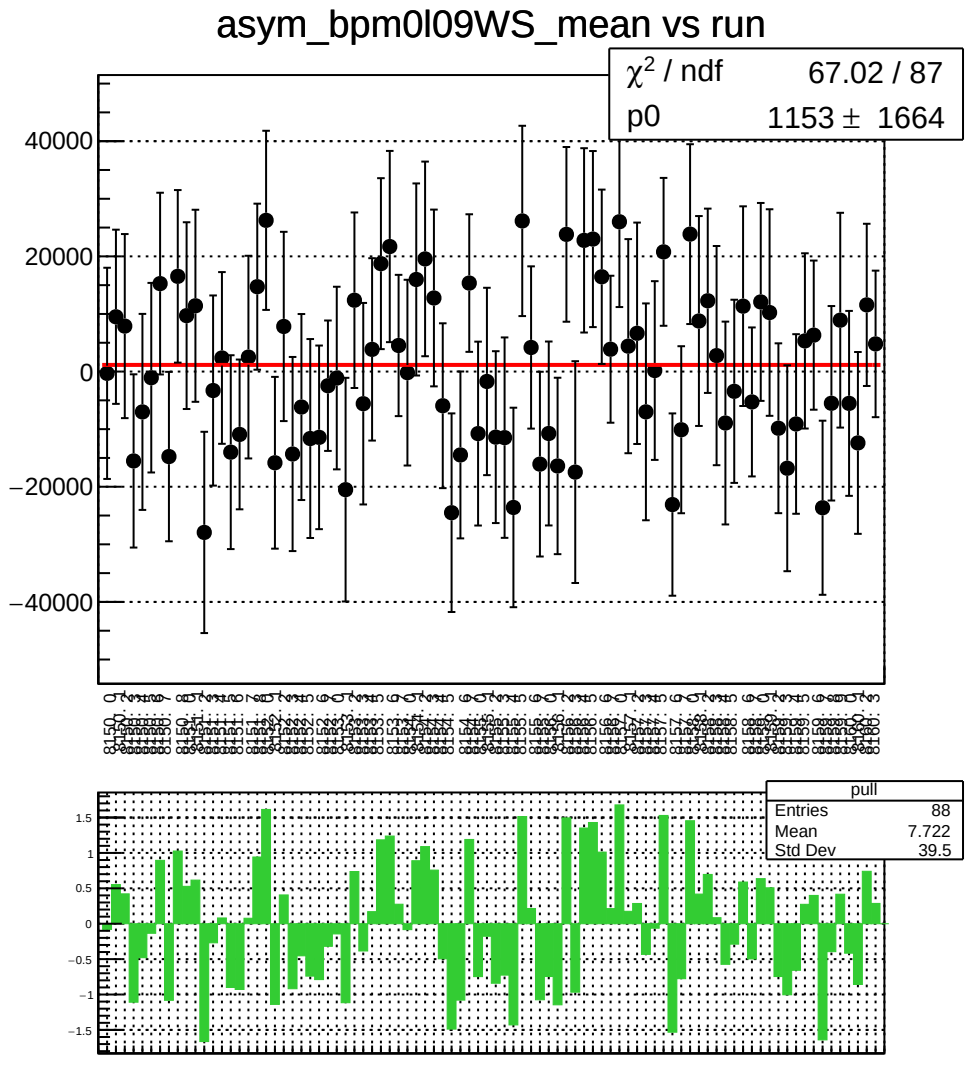

asym_bpm0l07WS_mean vs run
χ² / ndf 384.2 / 87
p0 −669.3 ± 194.5
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 1276
Std Dev 0
4
2
0
−2
−4

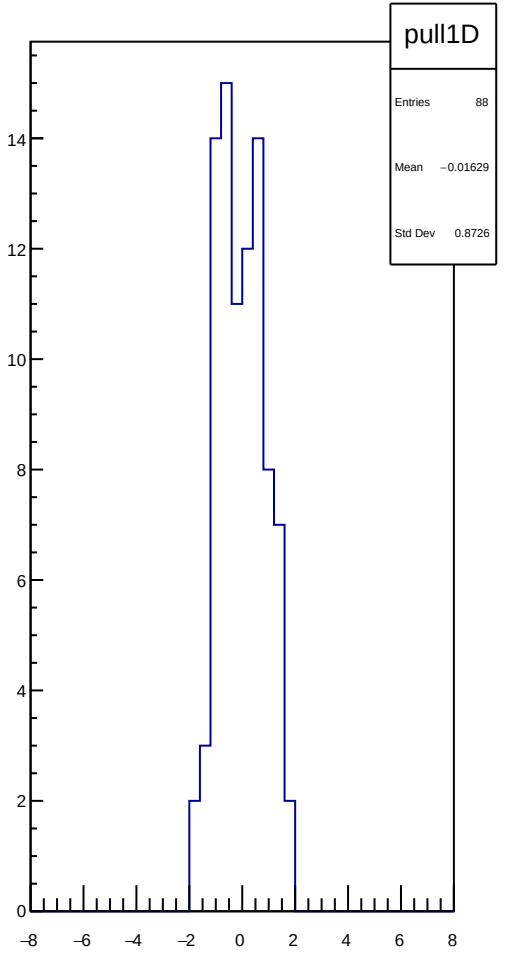

pull1D
Entries 88
Mean −0.0344
Std Dev 2.089
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

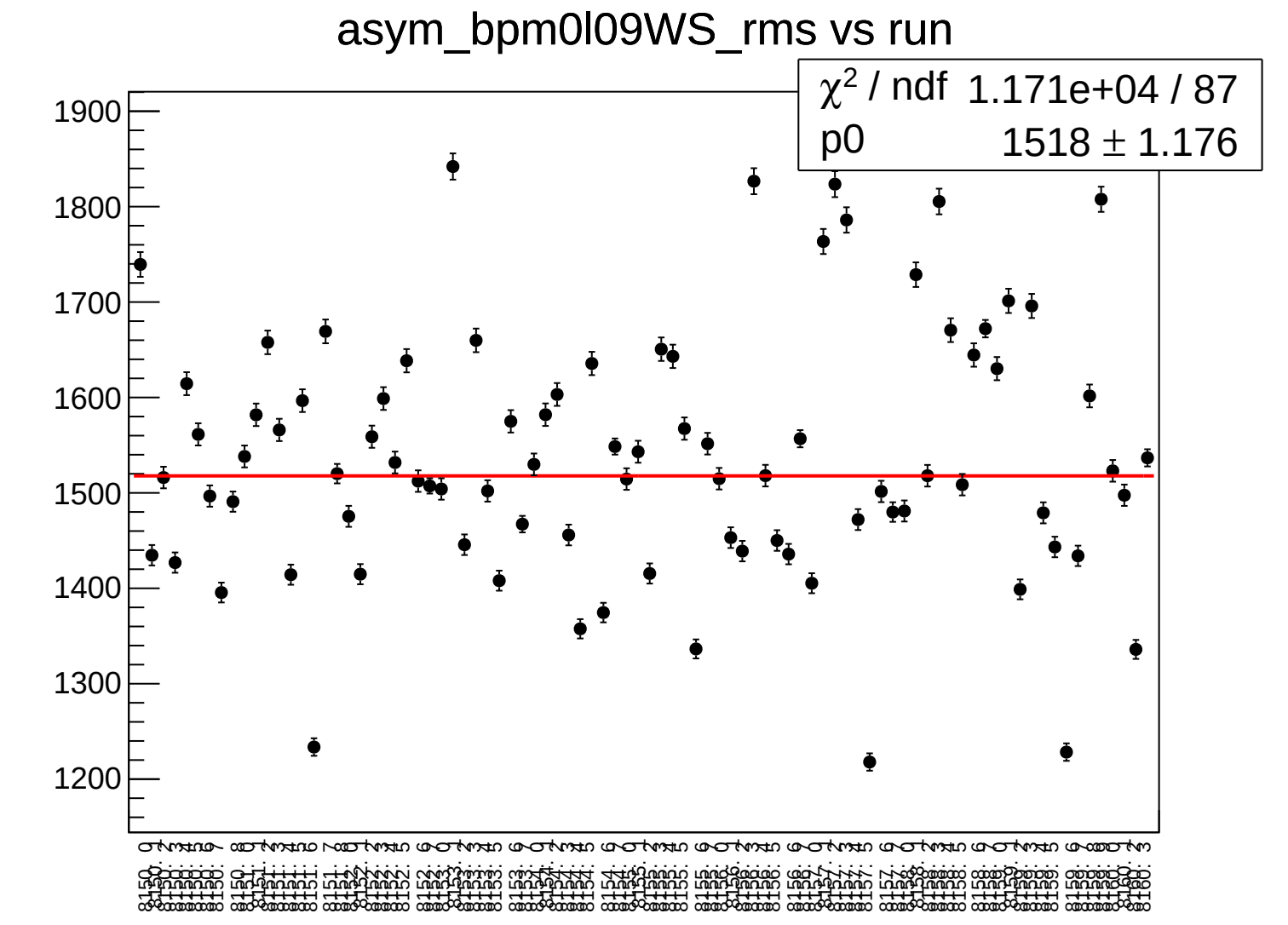

asym_bpm0l07WS_rms vs run
χ² / ndf 4.667e+04 / 87
p0 175.6 ± 0.1375
260
240
220
200
180
160
140

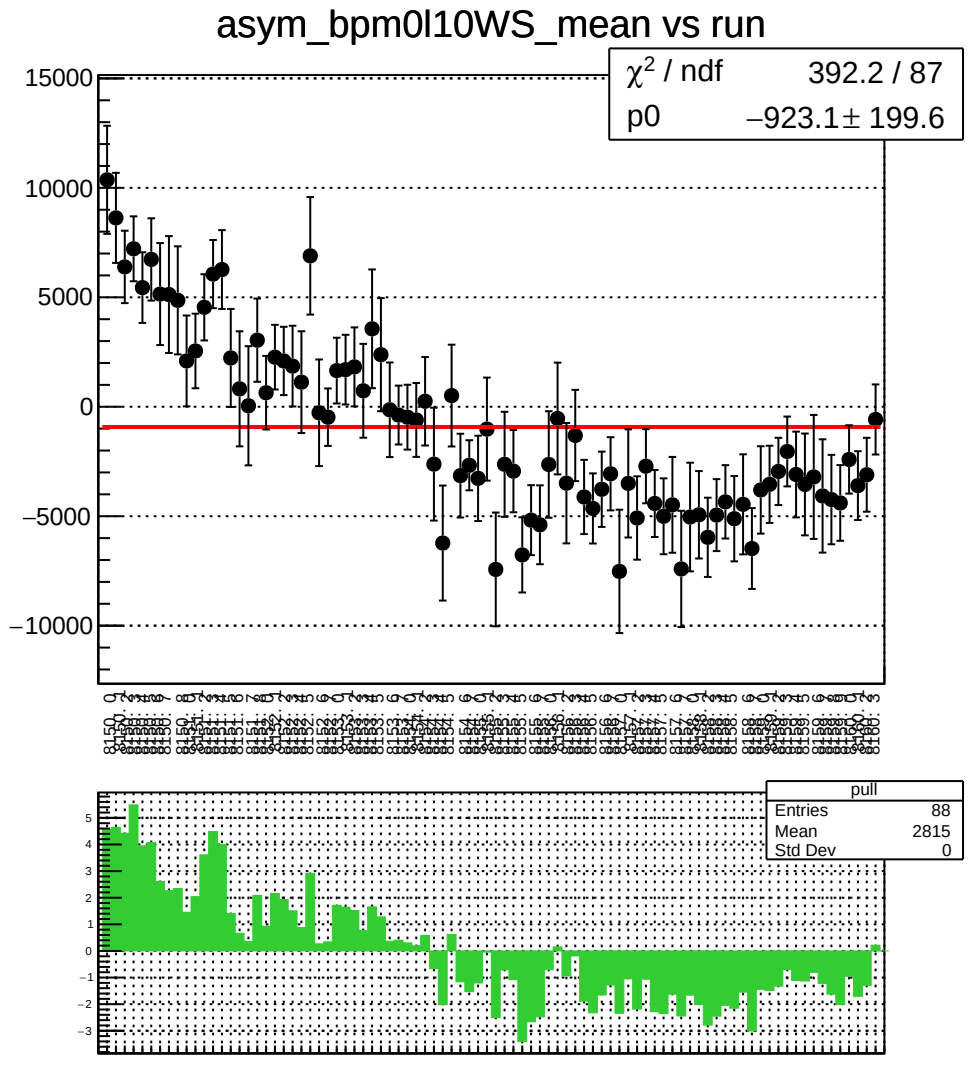

asym_bpm0l08WS_mean vs run
×10^3
χ² / ndf 72.48 / 87
p0 3523 ± 3593
100
50
0
−50
−100
pull
Entries 88
Mean −20.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −0.01173
Std Dev 0.9074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

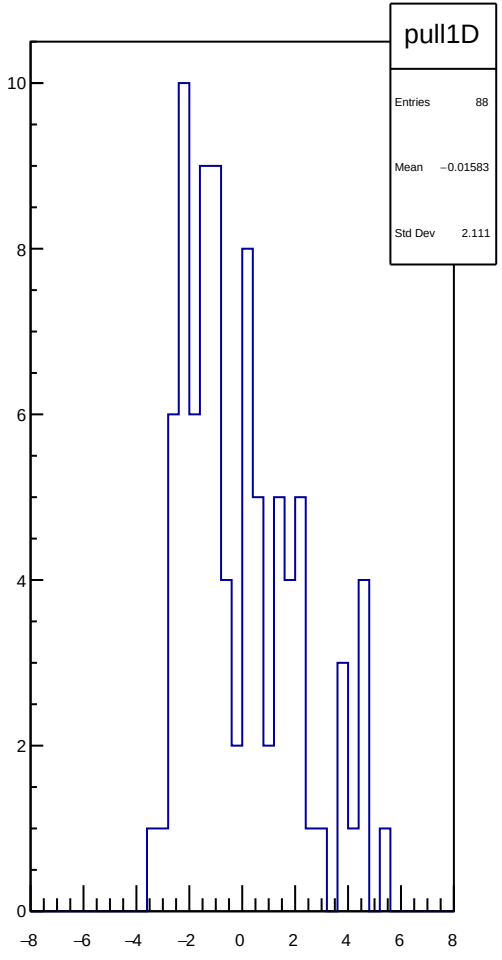

asym_bpm0l08WS_rms vs run
χ² / ndf 8678 / 87
p0 3281 ± 2.541
4000
3800
3600
3400
3200
3000
2800
2600

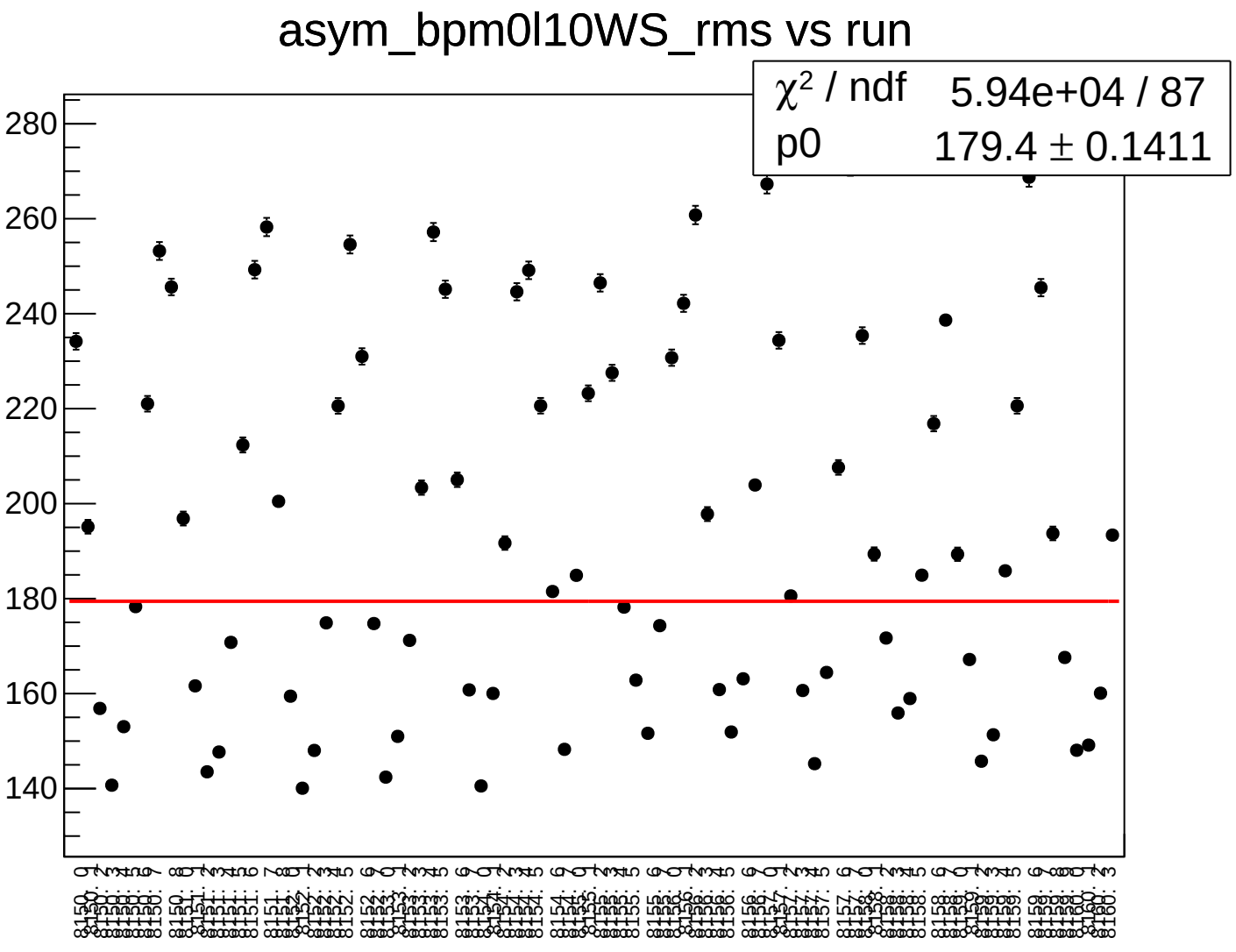

asym_bpm0l09WS_mean vs run
χ² / ndf 67.02 / 87
p0 1153 ± 1664
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 7.722
Std Dev 39.5
1.5
1
0.5
0
−0.5
−1
−1.5

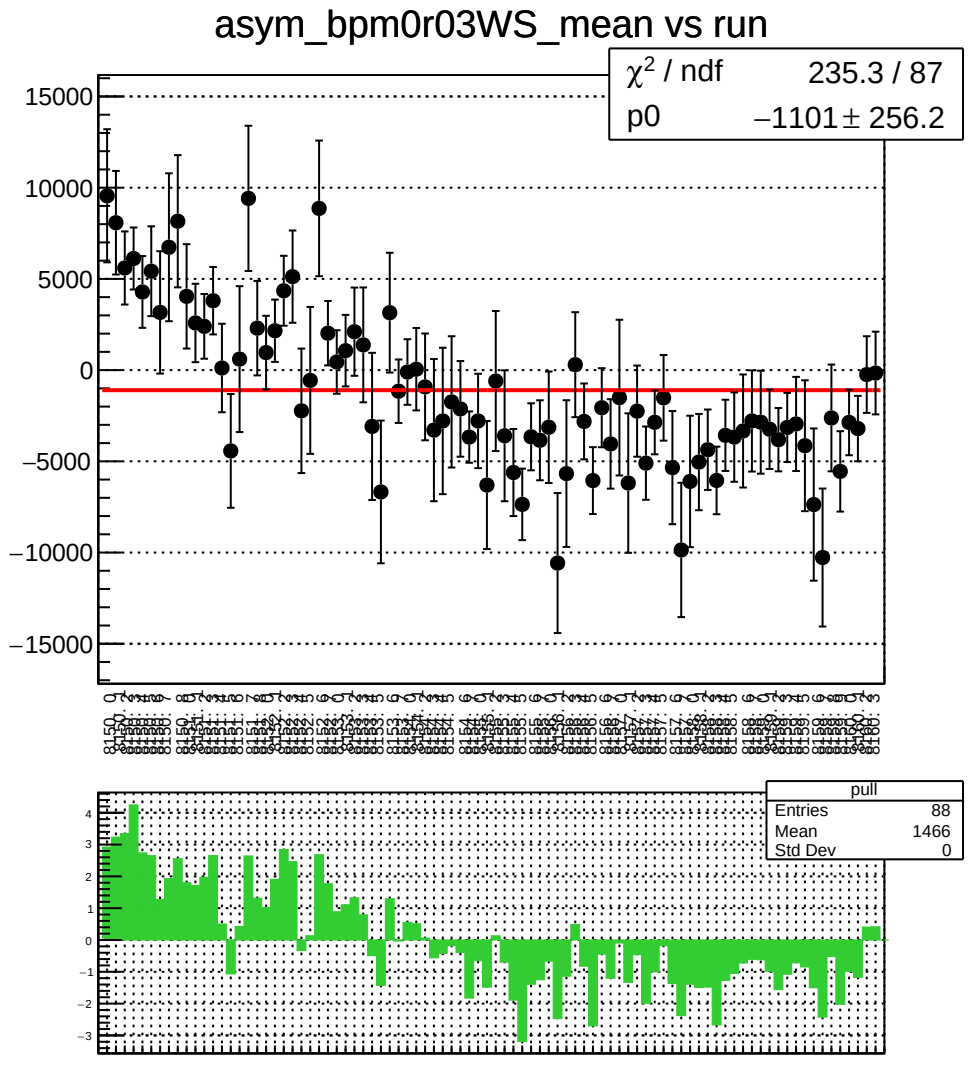

pull1D
Entries 88
Mean −0.01629
Std Dev 0.8726
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

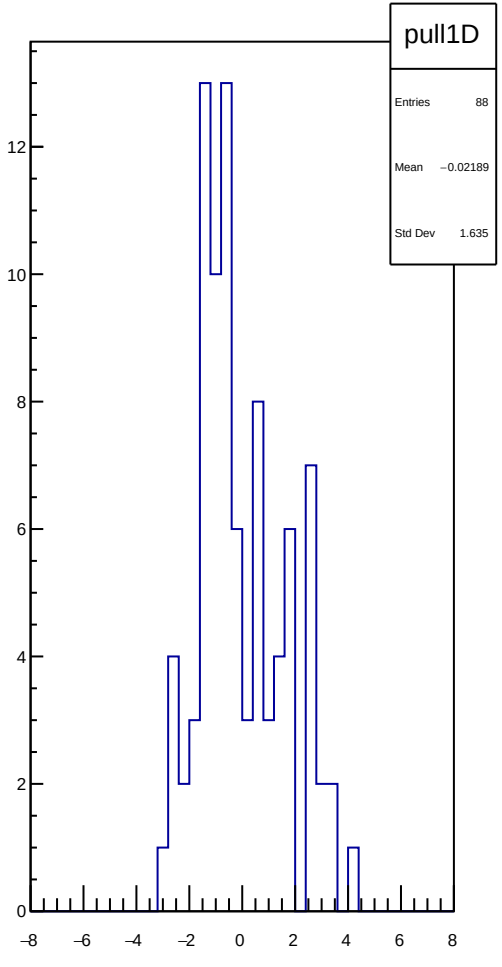

asym_bpm0l09WS_rms vs run
χ² / ndf 1.171e+04 / 87
p0 1518 ± 1.176
1900
1800
1700
1600
1500
1400
1300
1200

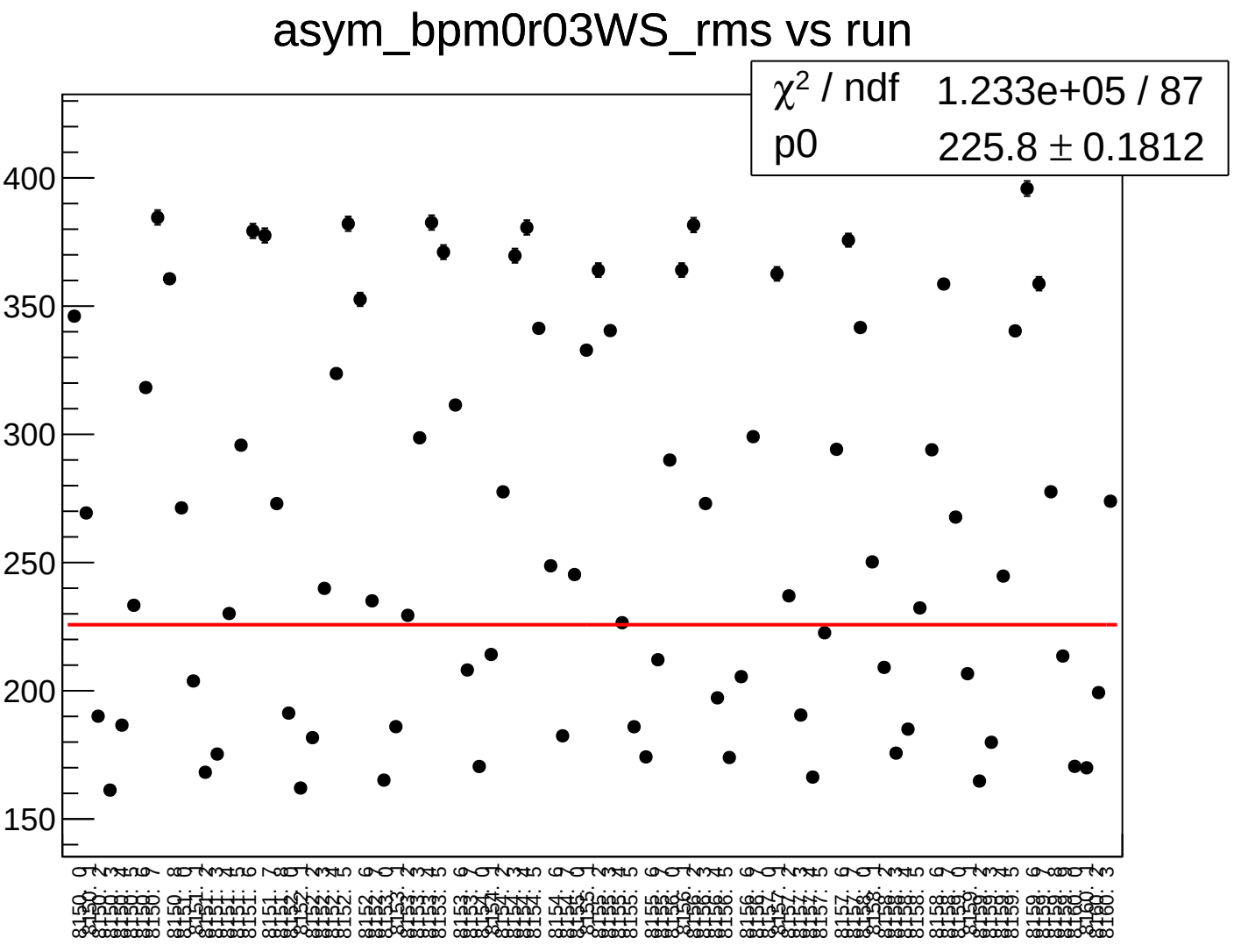

asym_bpm0l10WS_mean vs run
χ² / ndf 392.2 / 87
p0 −923.1 ± 199.6
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 2815
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

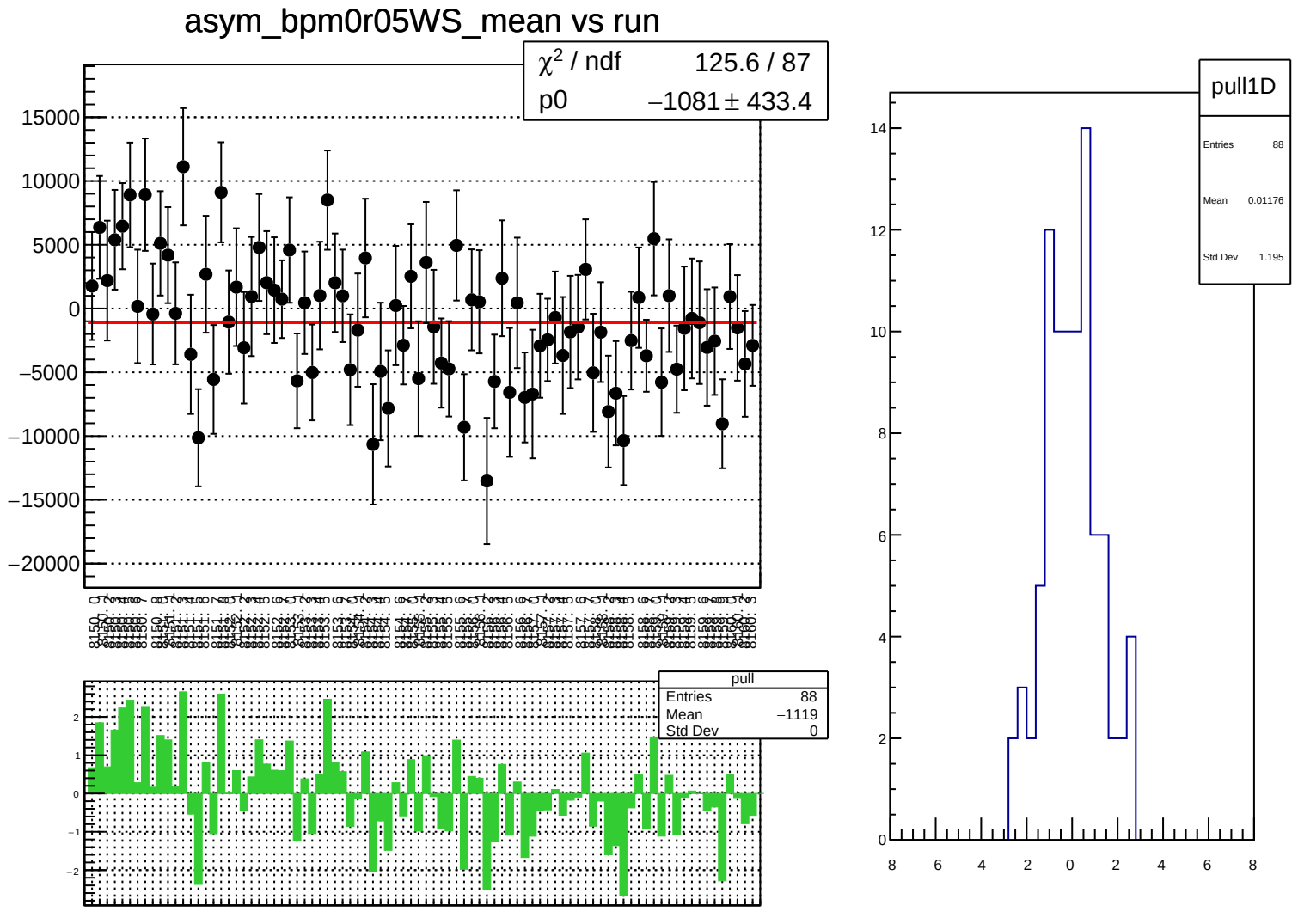

pull1D
Entries 88
Mean −0.01583
Std Dev 2.111
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

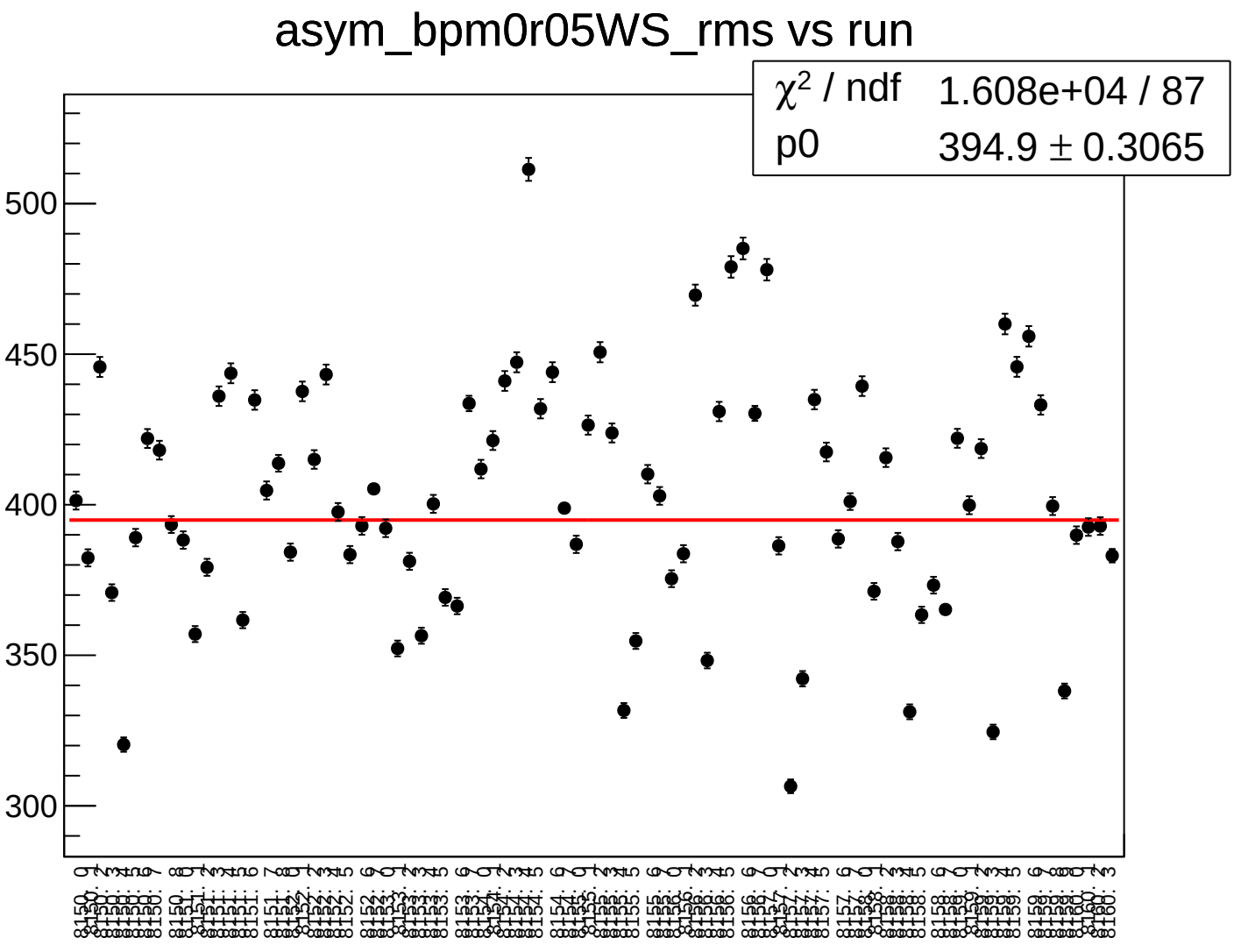

asym_bpm0l10WS_rms vs run
χ² / ndf 5.94e+04 / 87
p0 179.4 ± 0.1411
280
260
240
220
200
180
160
140

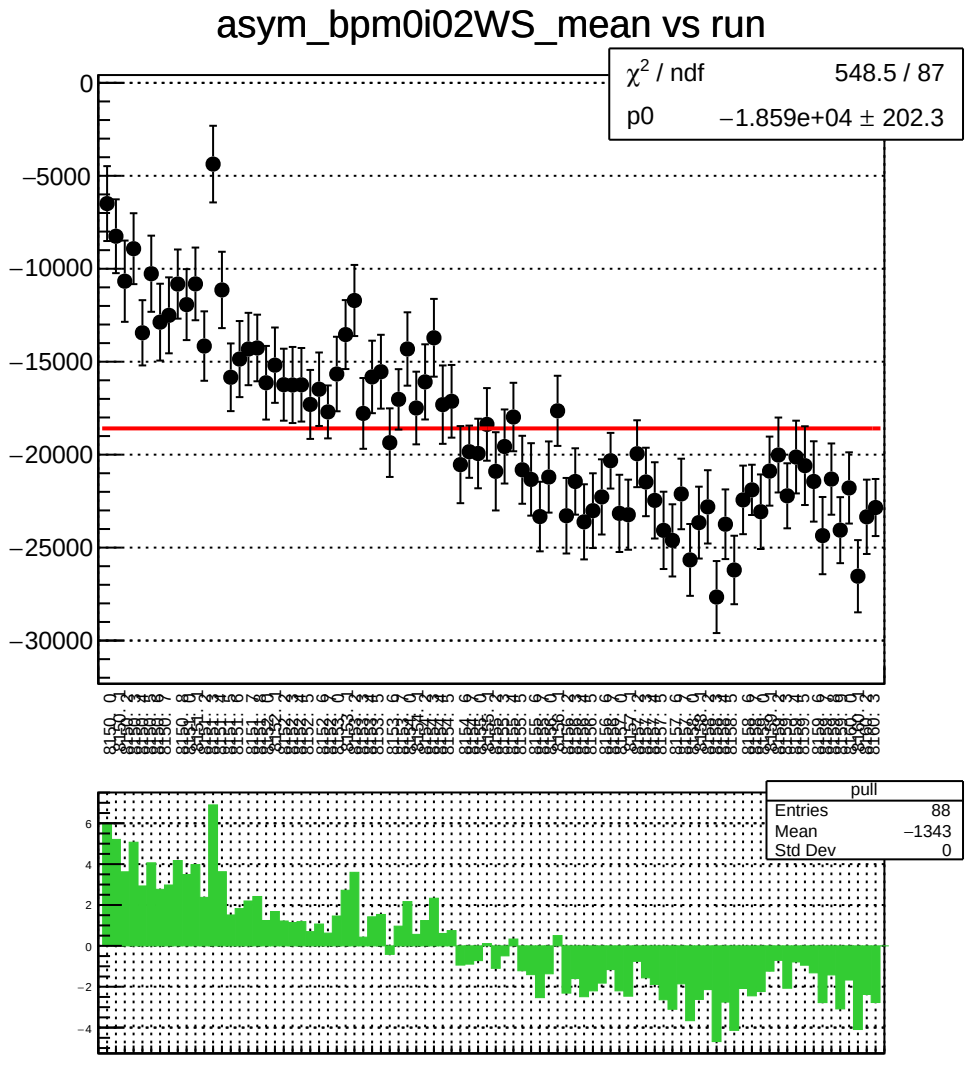

asym_bpm0r03WS_mean vs run
χ² / ndf 235.3 / 87
p0 −1101 ± 256.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 1466
Std Dev 0
4
3
2
1
0
−1
−2
−3

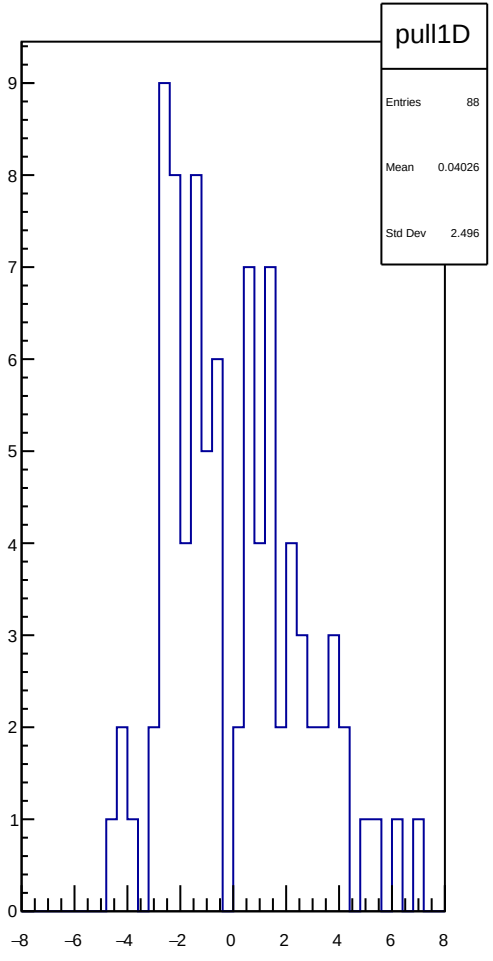

pull1D
Entries 88
Mean −0.02189
Std Dev 1.635
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

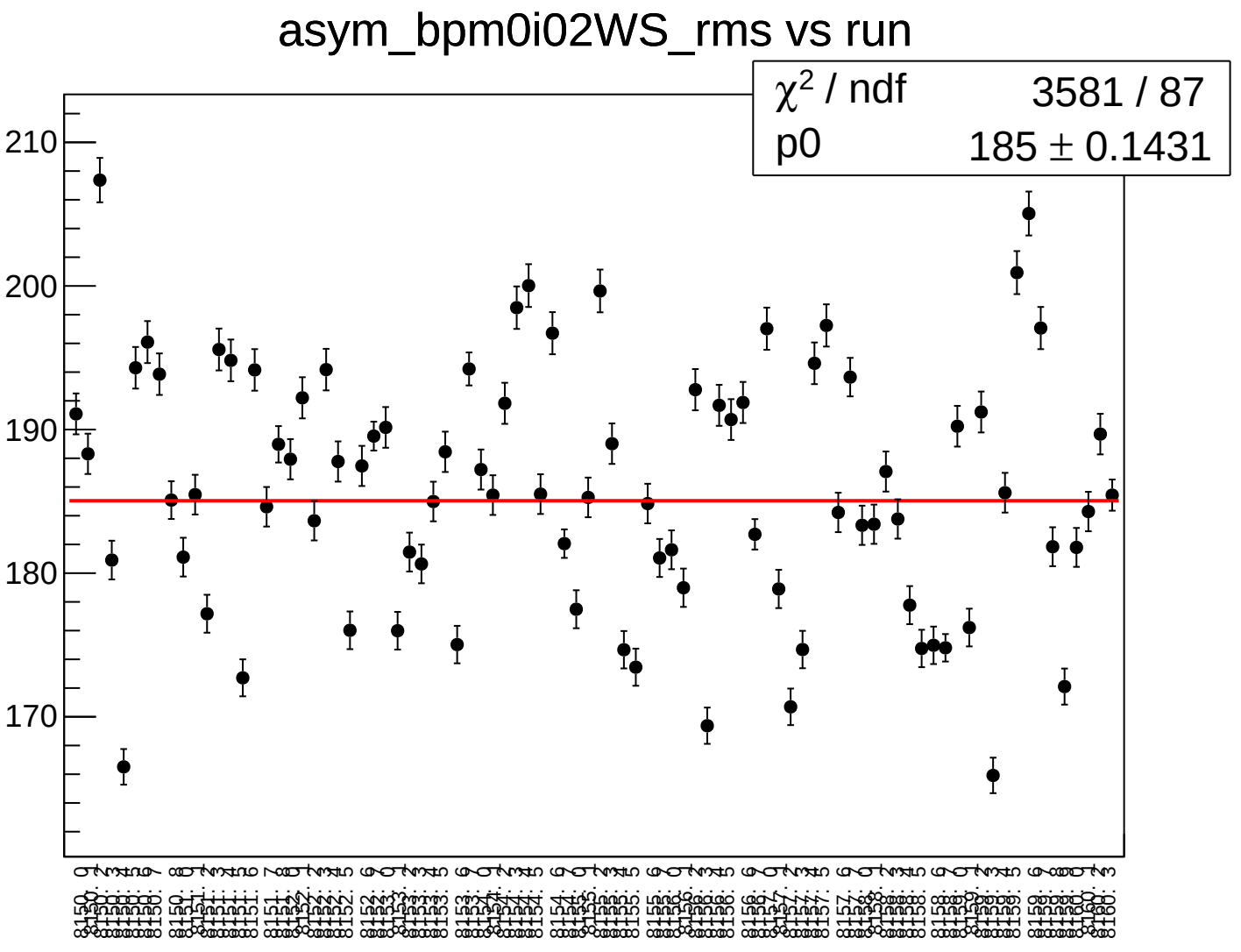

asym_bpm0r03WS_rms vs run
χ² / ndf 1.233e+05 / 87
p0 225.8 ± 0.1812
400
350
300
250
200
150

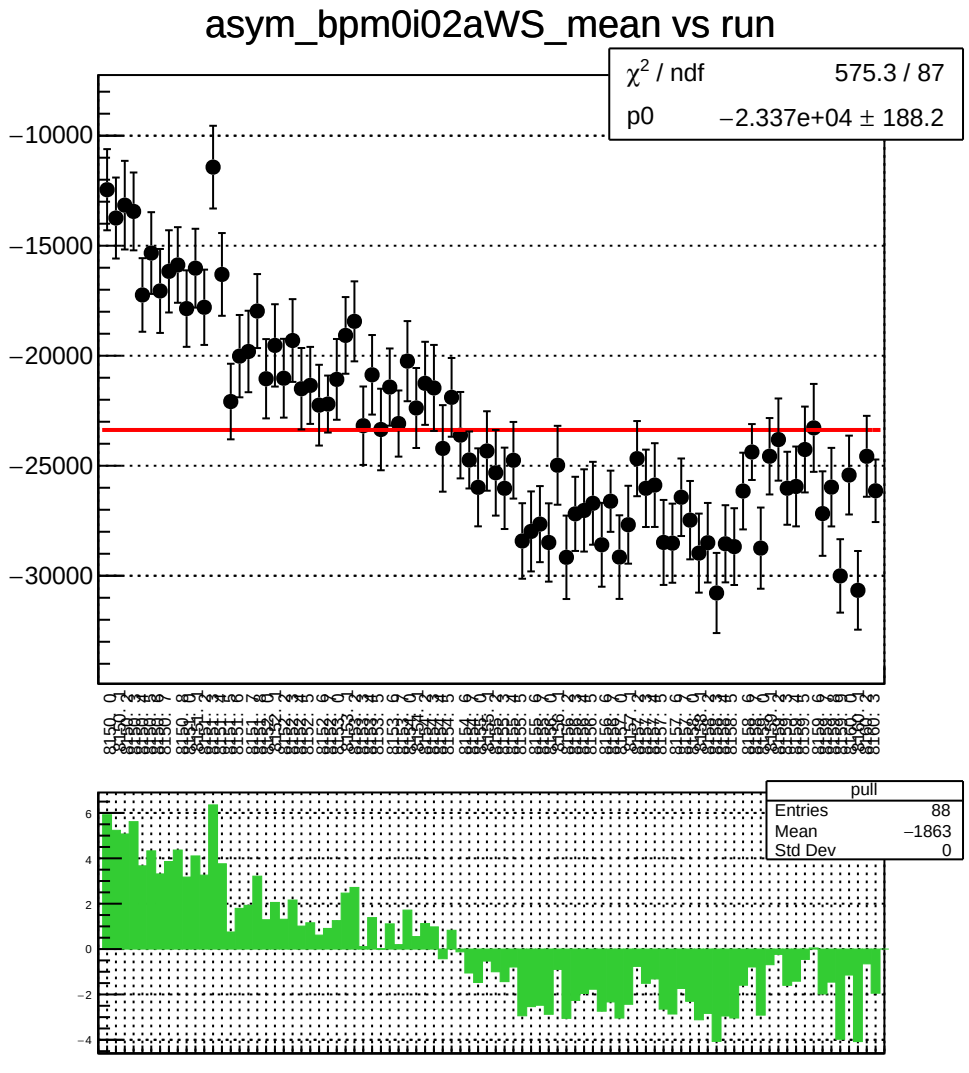

asym_bpm0r05WS_mean vs run
χ² / ndf 125.6 / 87
p0 −1081 ± 433.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean −1119
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01176
Std Dev 1.195
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

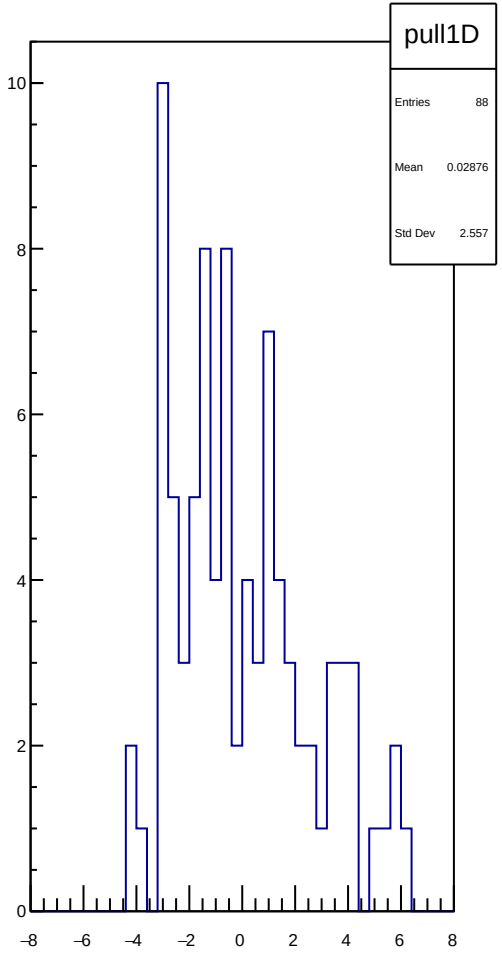

asym_bpm0r05WS_rms vs run
χ^2 / ndf 1.608e+04 / 87
p0 394.9 ± 0.3065
500
450
400
350
300

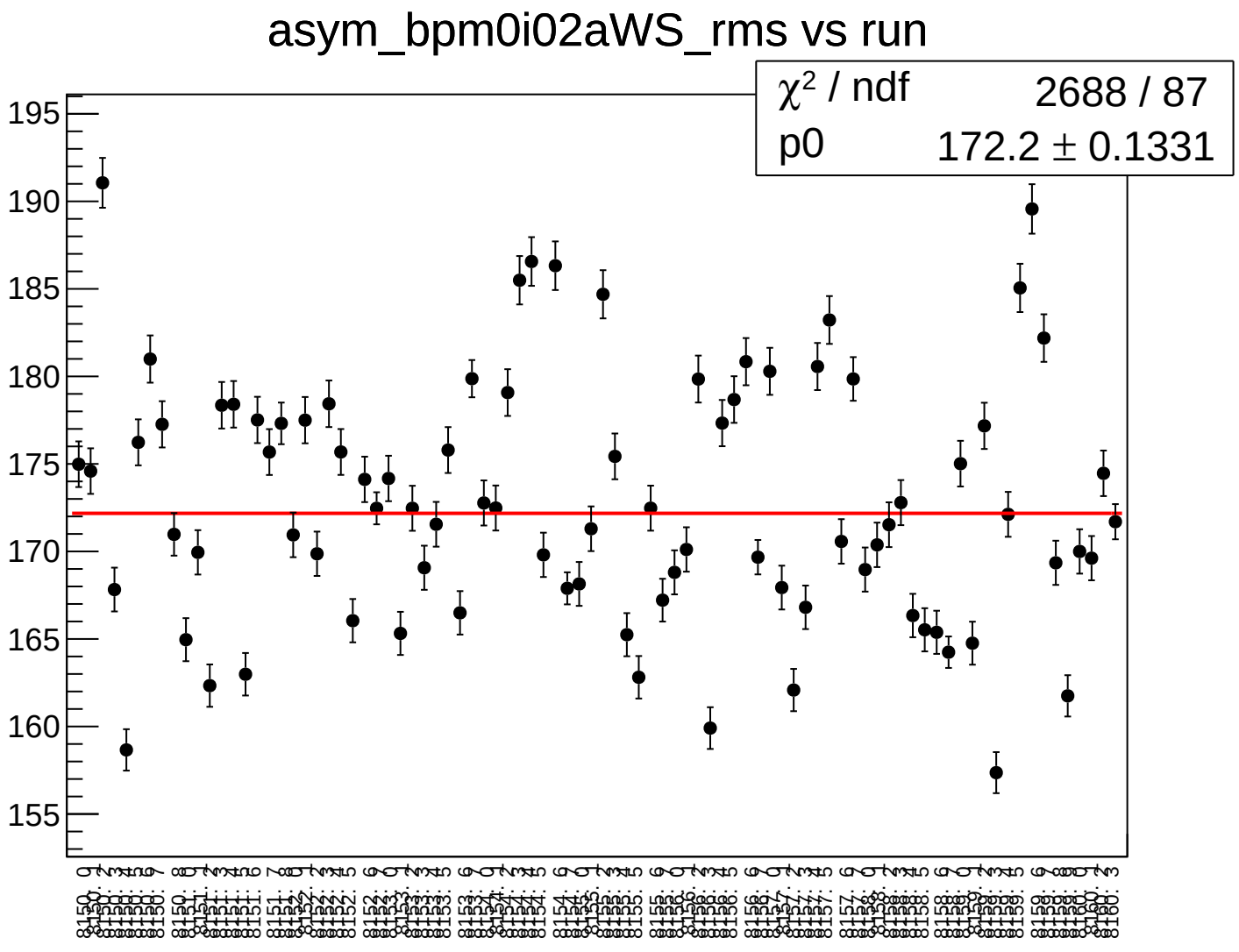

asym_bpm0i02WS_mean vs run
χ² / ndf 548.5 / 87
p0 −1.859e+04 ± 202.3
pull
Entries 88
Mean −1343
Std Dev 0

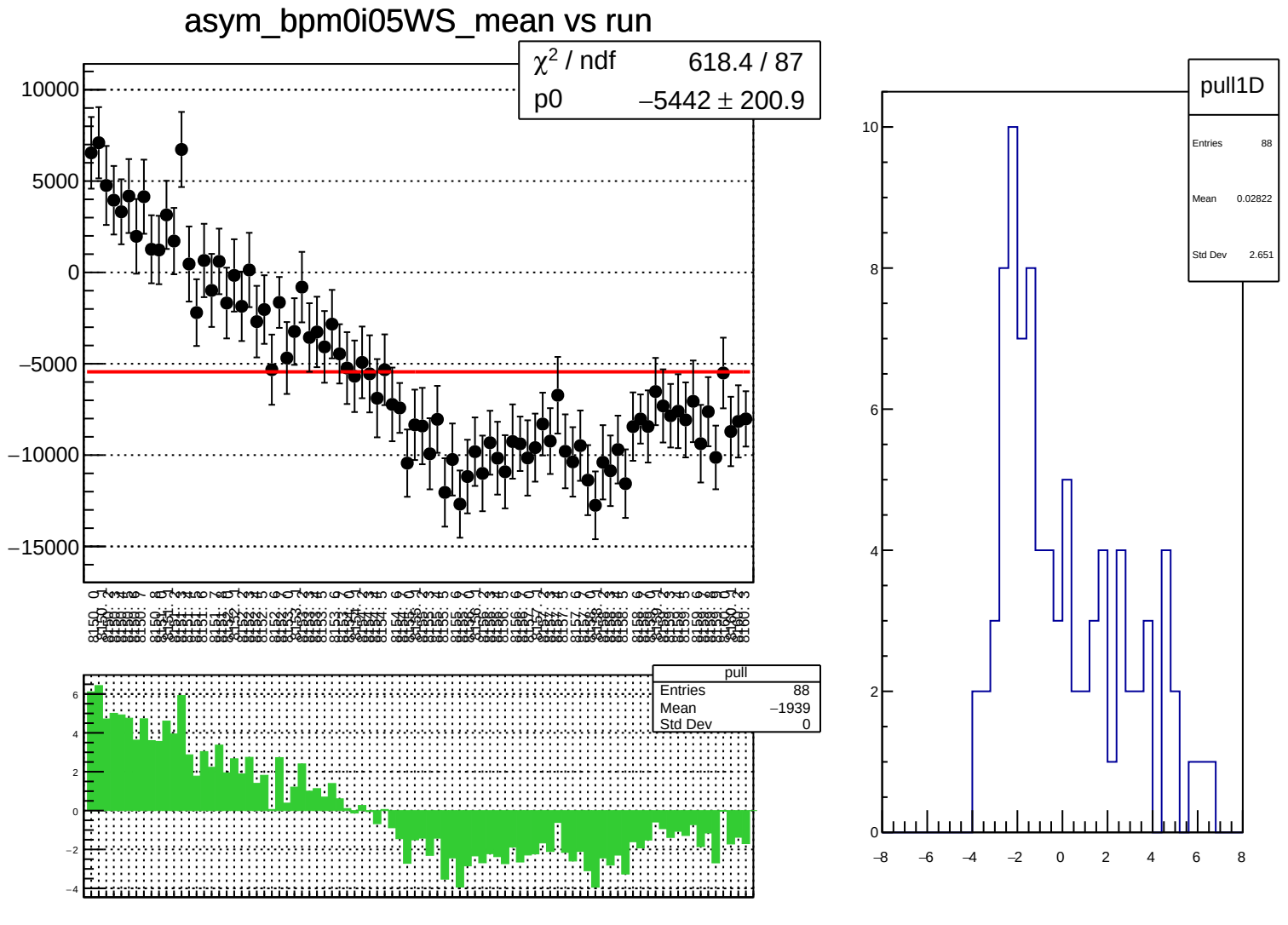

pull1D
Entries 88
Mean 0.04026
Std Dev 2.496

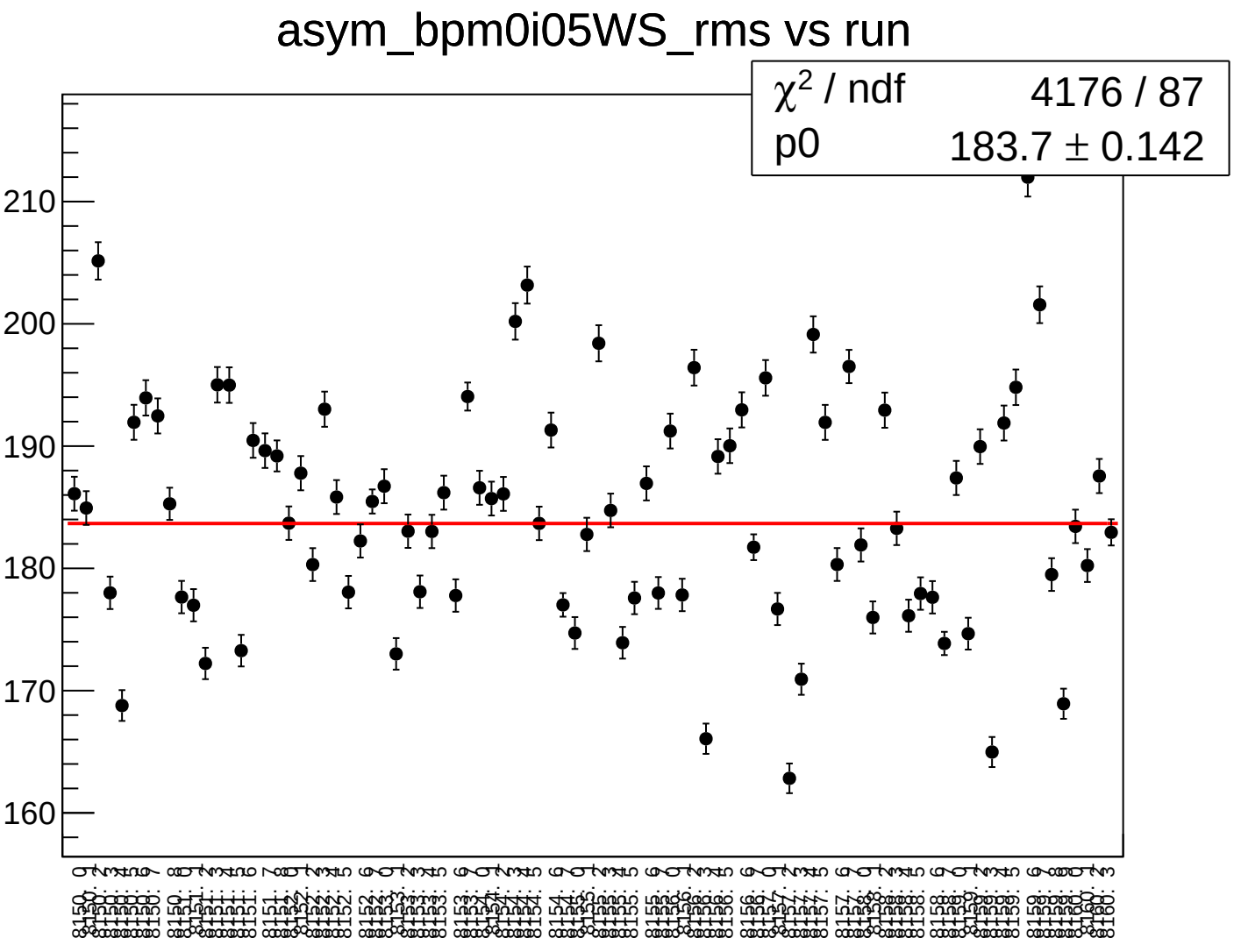

asym_bpm0i02WS_rms vs run
χ² / ndf 3581 / 87
p0 185 ± 0.1431
210
200
190
180
170

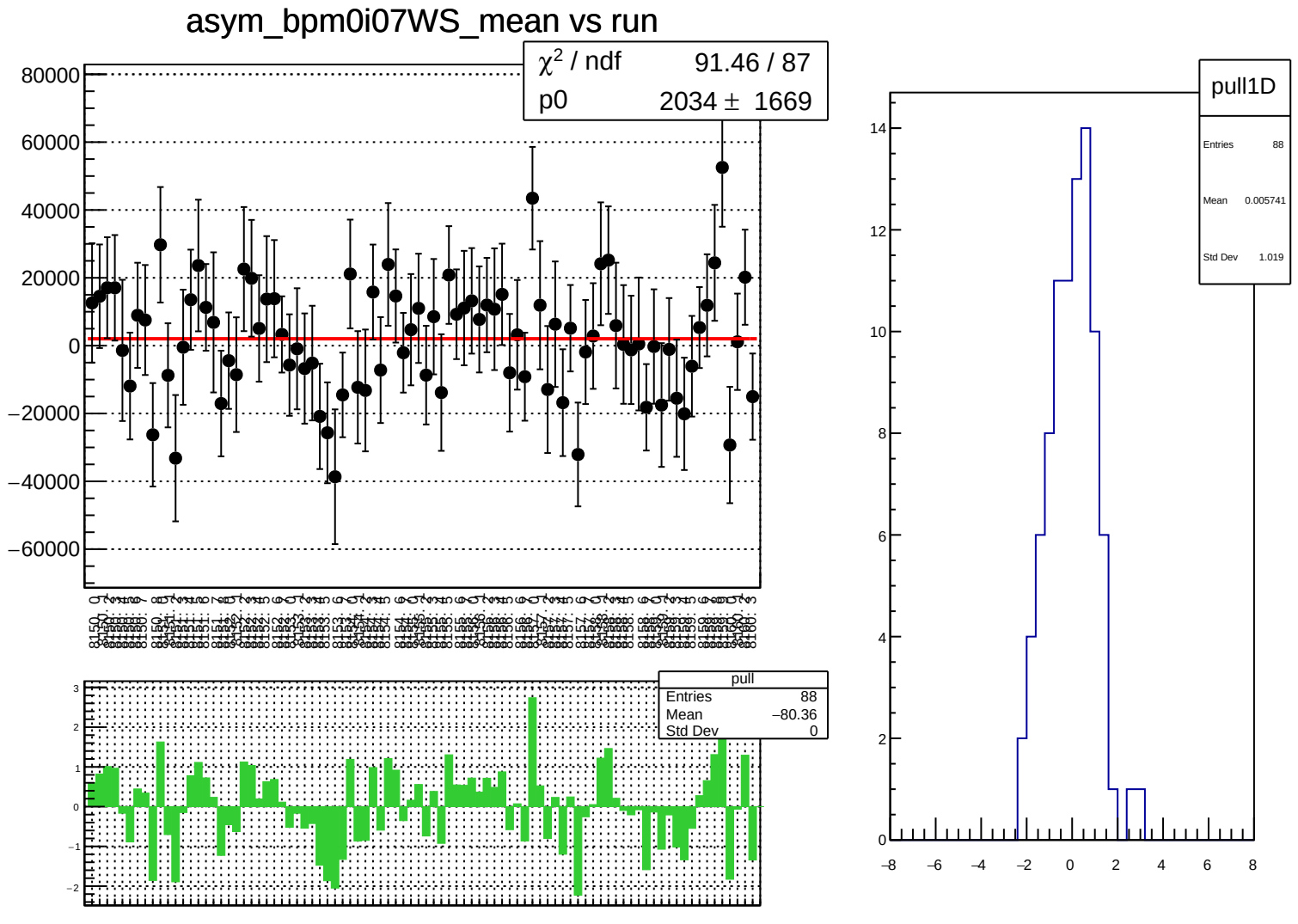

asym_bpm0i02aWS_mean vs run
χ² / ndf 575.3 / 87
p0 −2.337e+04 ± 188.2
−10000
−15000
−20000
−25000
−30000
pull
Entries 88
Mean −1863
Std Dev 0
6
4
2
0
−2
−4

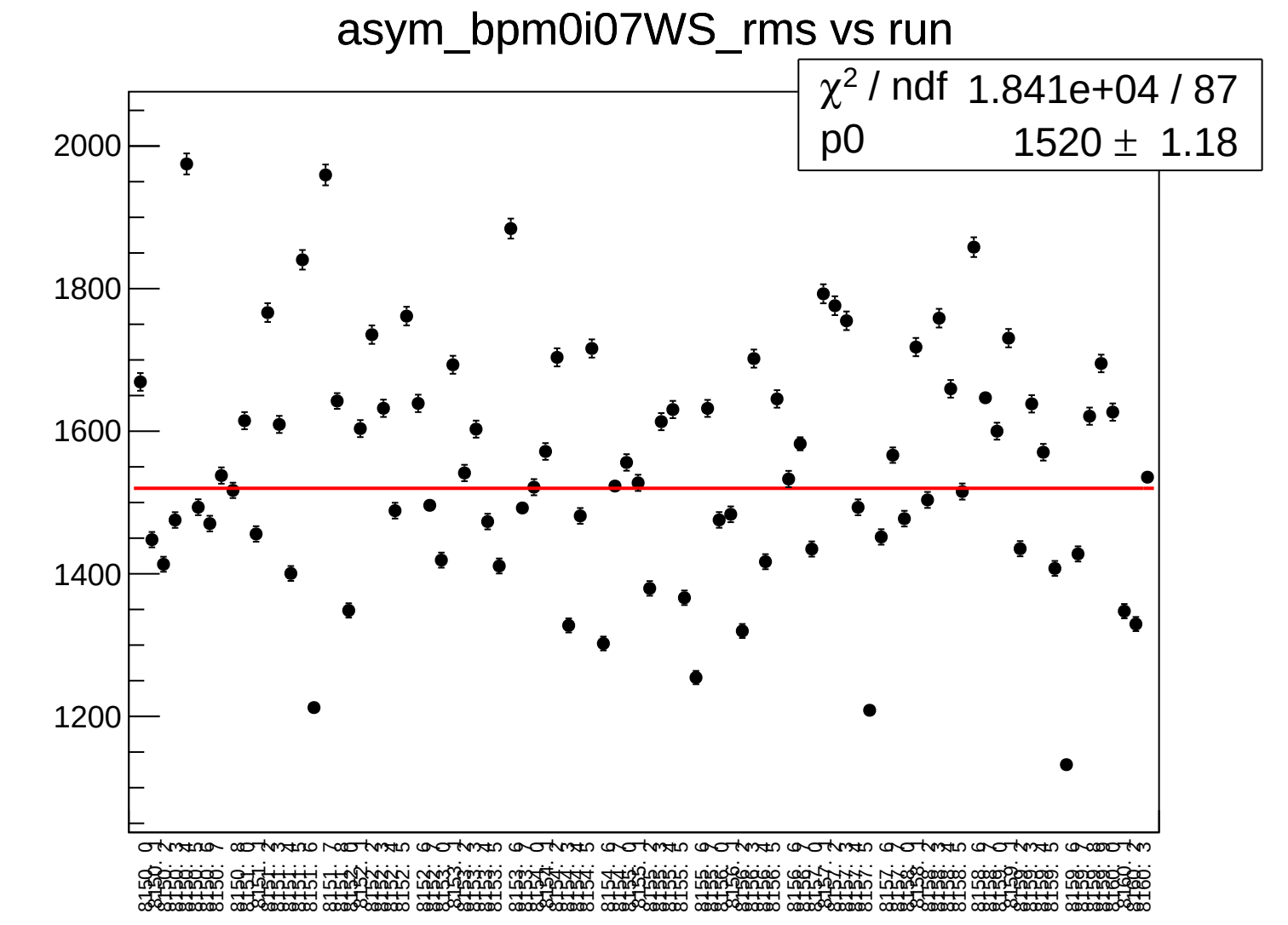

pull1D
Entries 88
Mean 0.02876
Std Dev 2.557
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

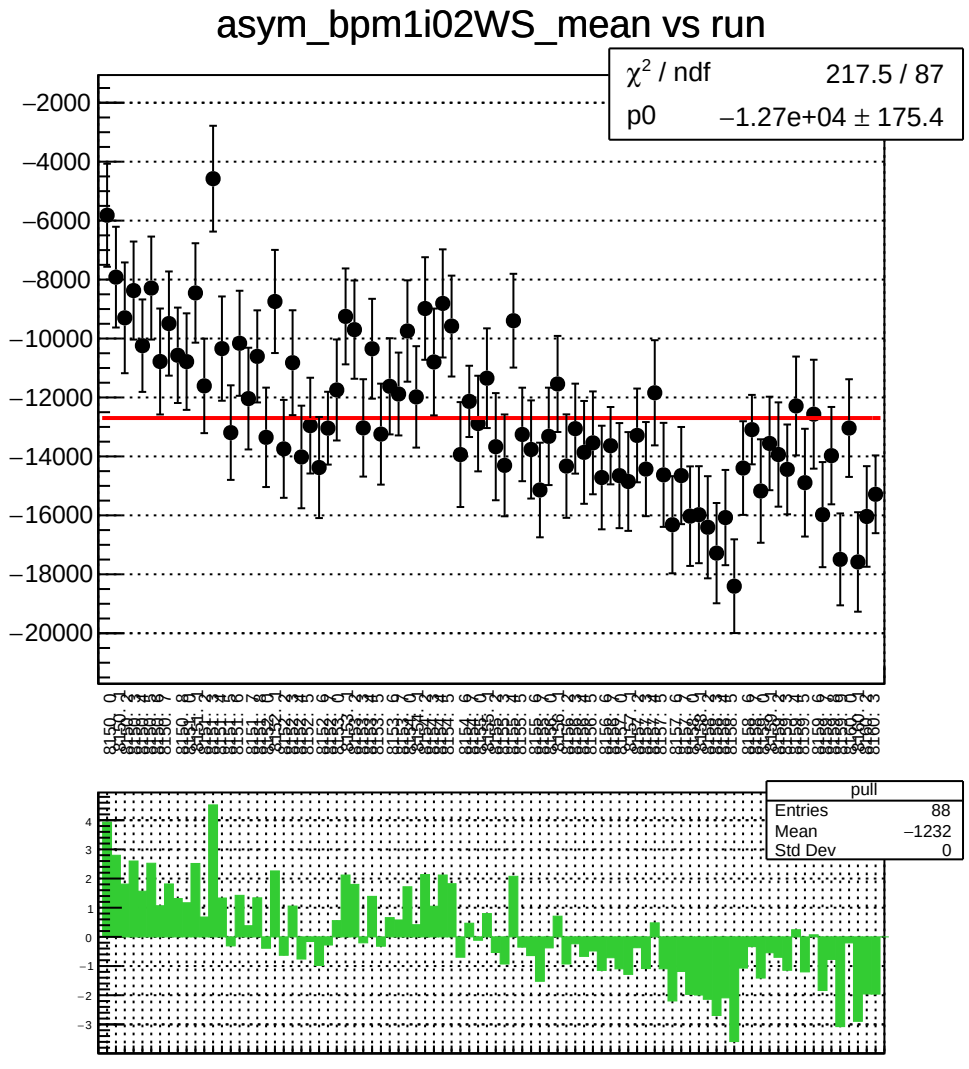

asym_bpm0i02aWS_rms vs run
χ² / ndf 2688 / 87
p0 172.2 ± 0.1331
195
190
185
180
175
170
165
160
155

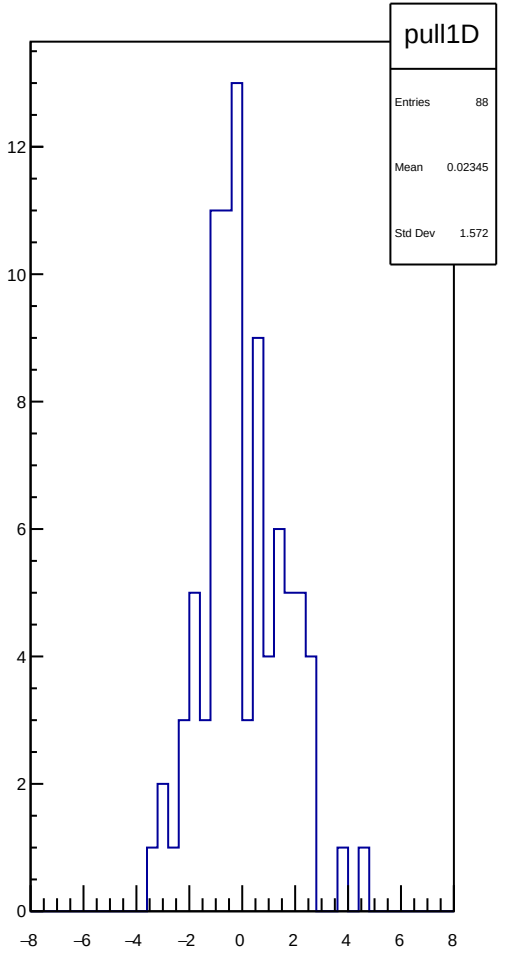

asym_bpm0i05WS_mean vs run
χ² / ndf 618.4 / 87
p0 −5442 ± 200.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1939
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 88
Mean 0.02822
Std Dev 2.651
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

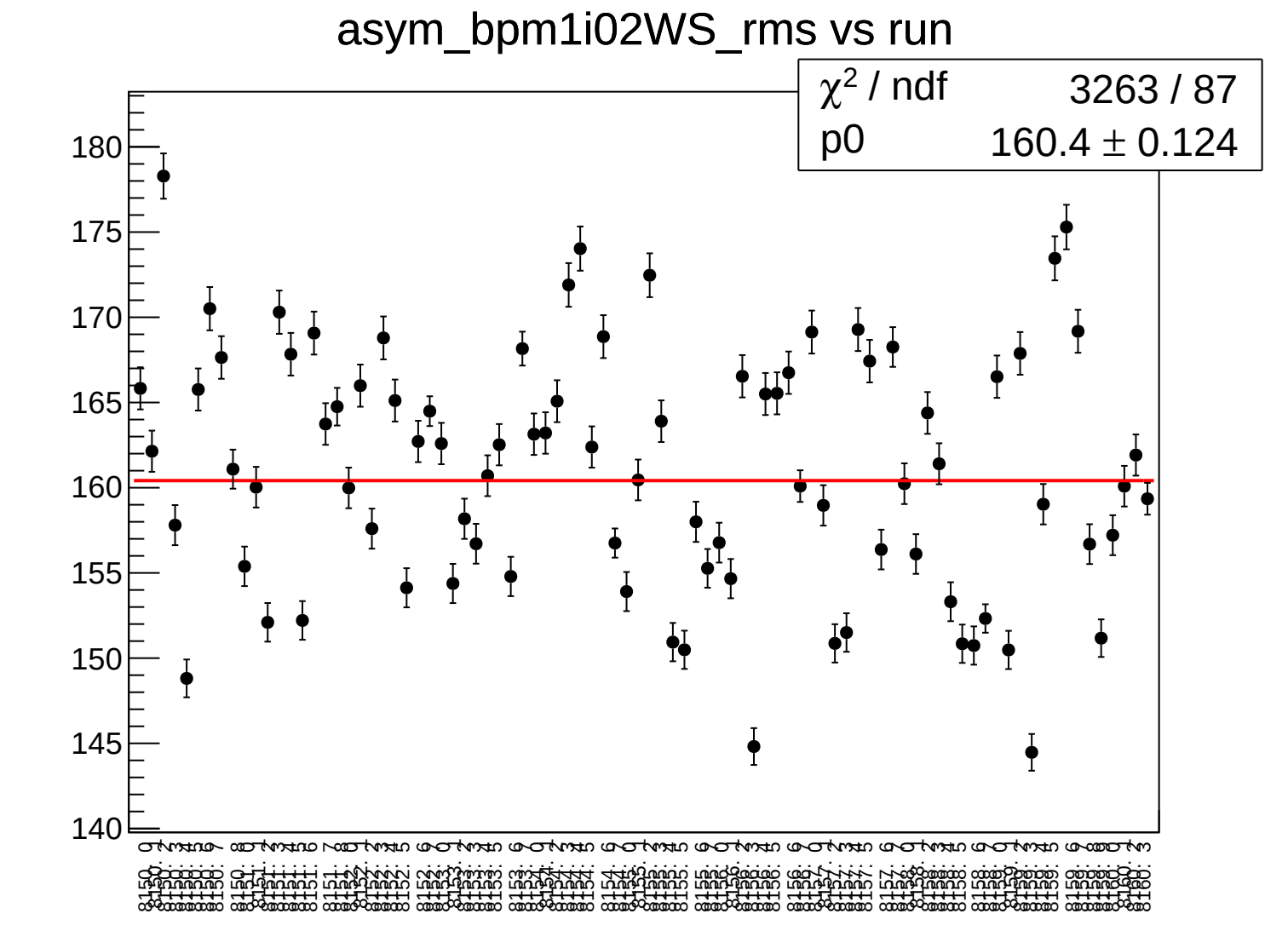

asym_bpm0i05WS_rms vs run
χ² / ndf 4176 / 87
p0 183.7 ± 0.142
210
200
190
180
170
160

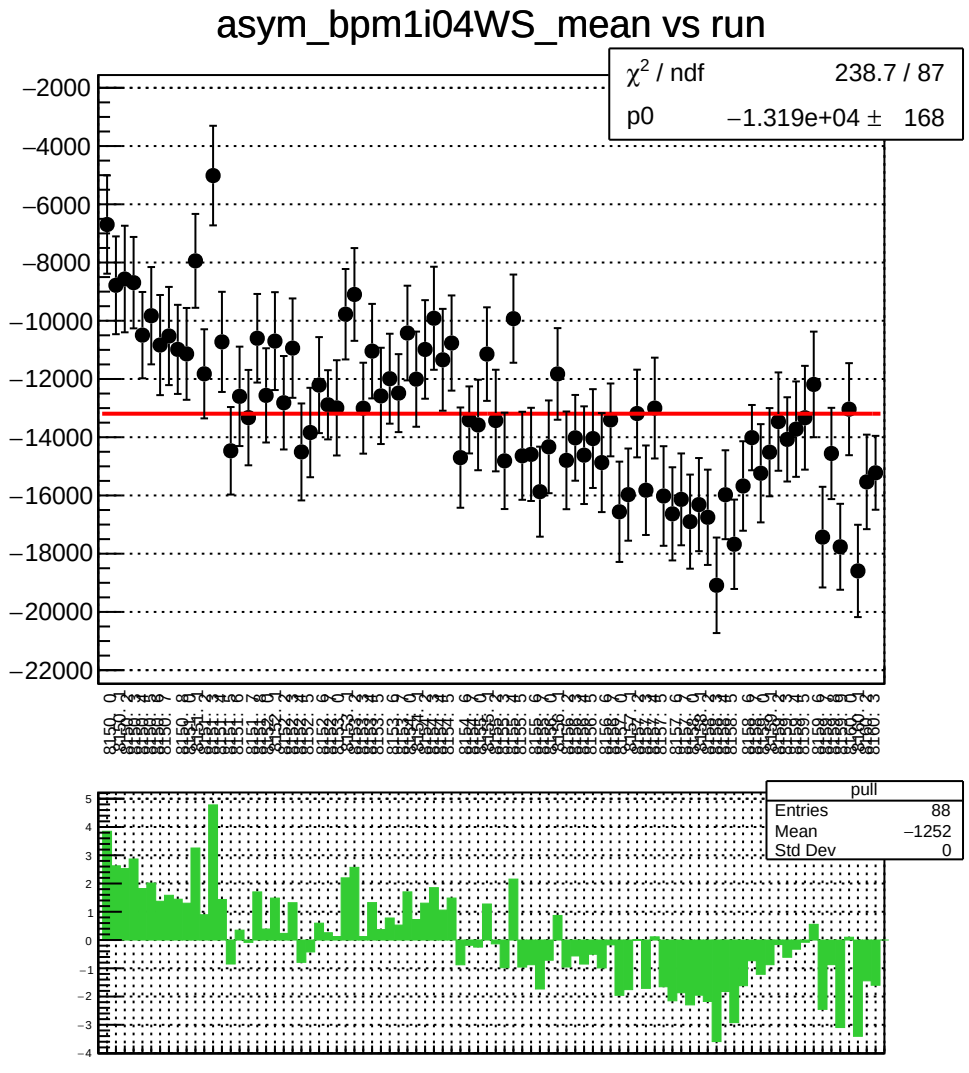

asym_bpm0i07WS_mean vs run
χ² / ndf 91.46 / 87
p0 2034 ± 1669
pull
Entries 88
Mean −80.36
Std Dev 0
pull1D
Entries 88
Mean 0.005741
Std Dev 1.019

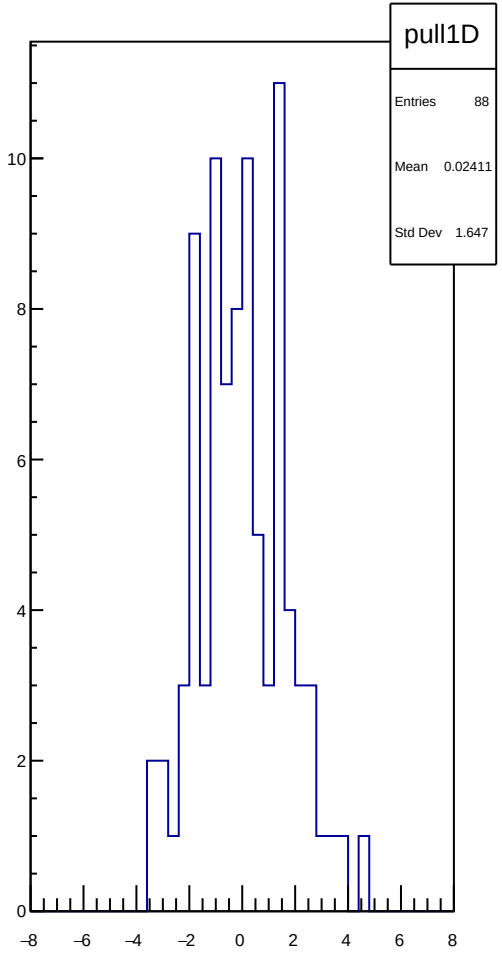

asym_bpm0i07WS_rms vs run
χ² / ndf 1.841e+04 / 87
p0 1520 ± 1.18
2000
1800
1600
1400
1200

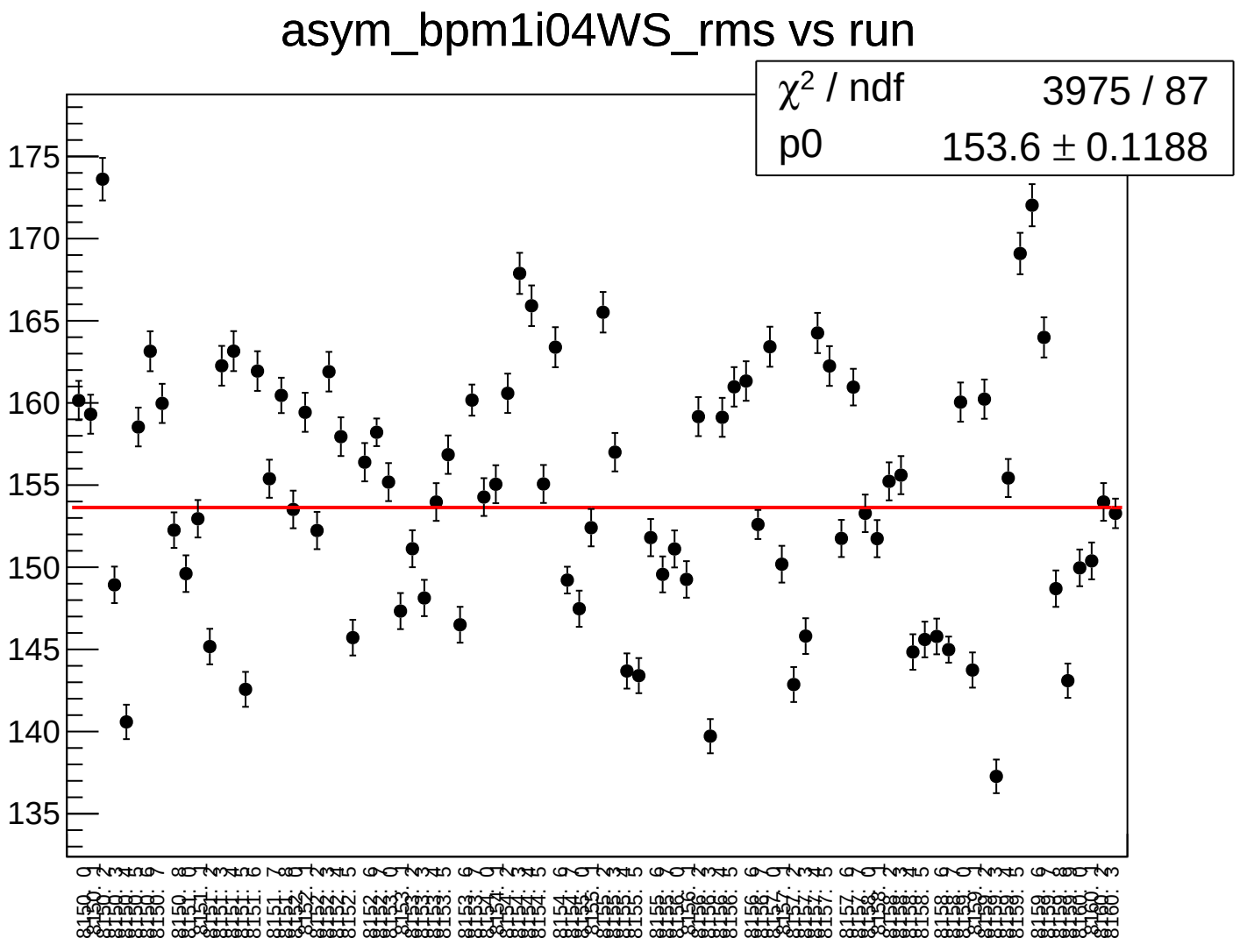

asym_bpm1i02WS_mean vs run
χ² / ndf 217.5 / 87
p0 −1.27e+04 ± 175.4
pull
Entries 88
Mean −1232
Std Dev 0

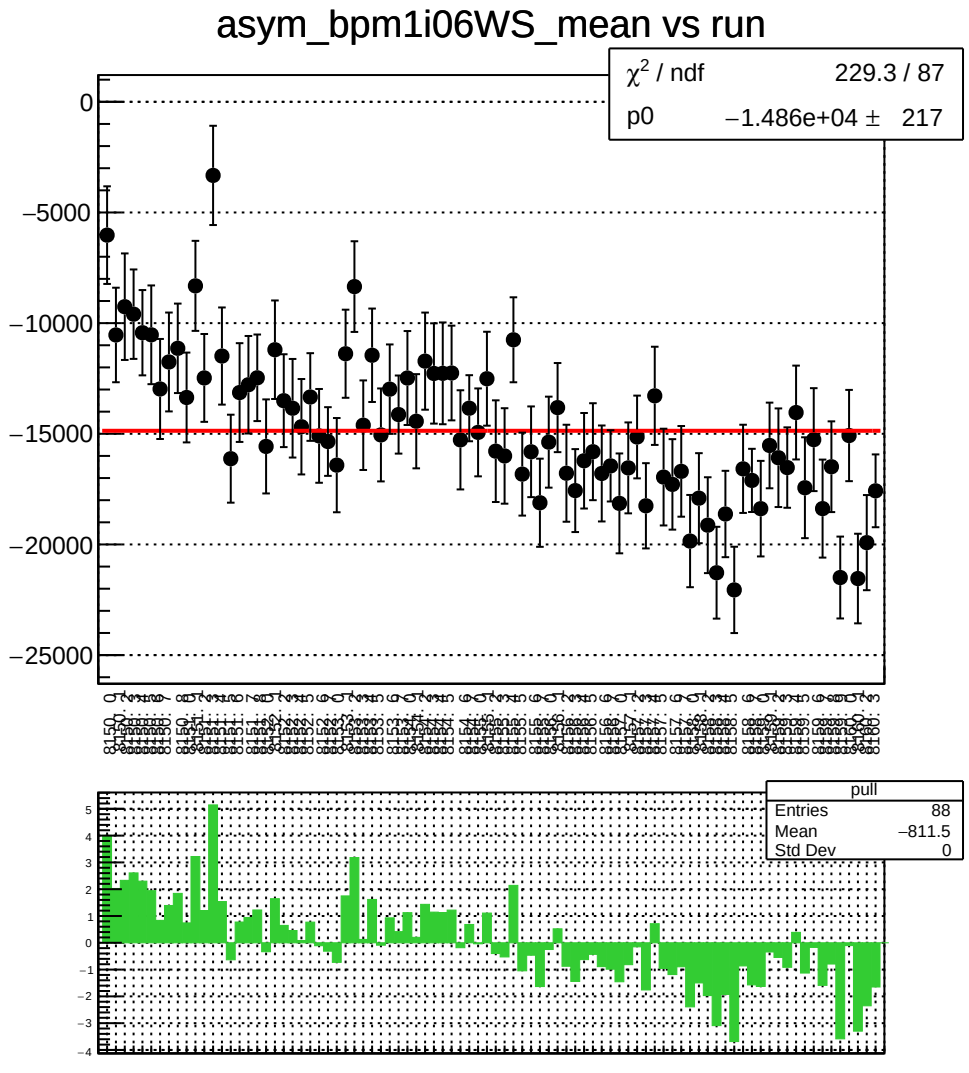

pull1D
Entries 88
Mean 0.02345
Std Dev 1.572

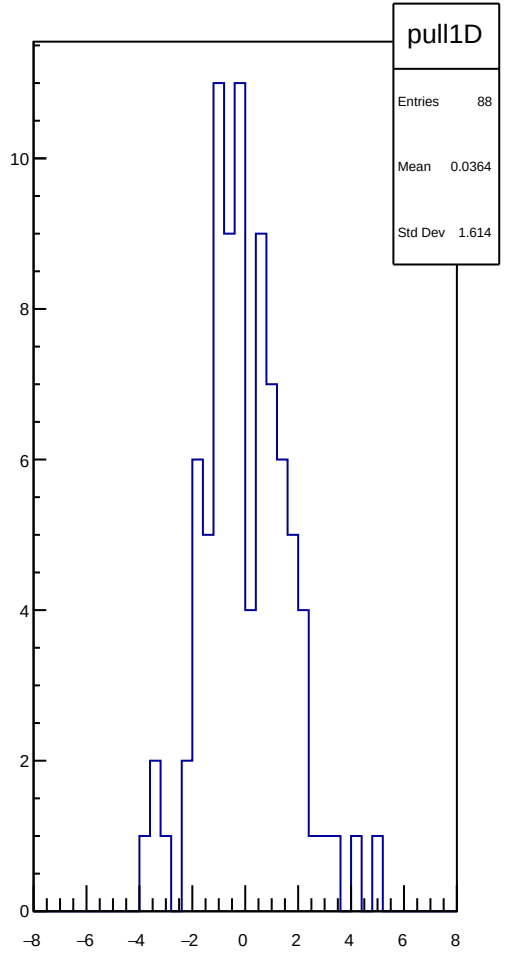

asym_bpm1i02WS_rms vs run
χ² / ndf 3263 / 87
p0 160.4 ± 0.124
180
175
170
165
160
155
150
145
140

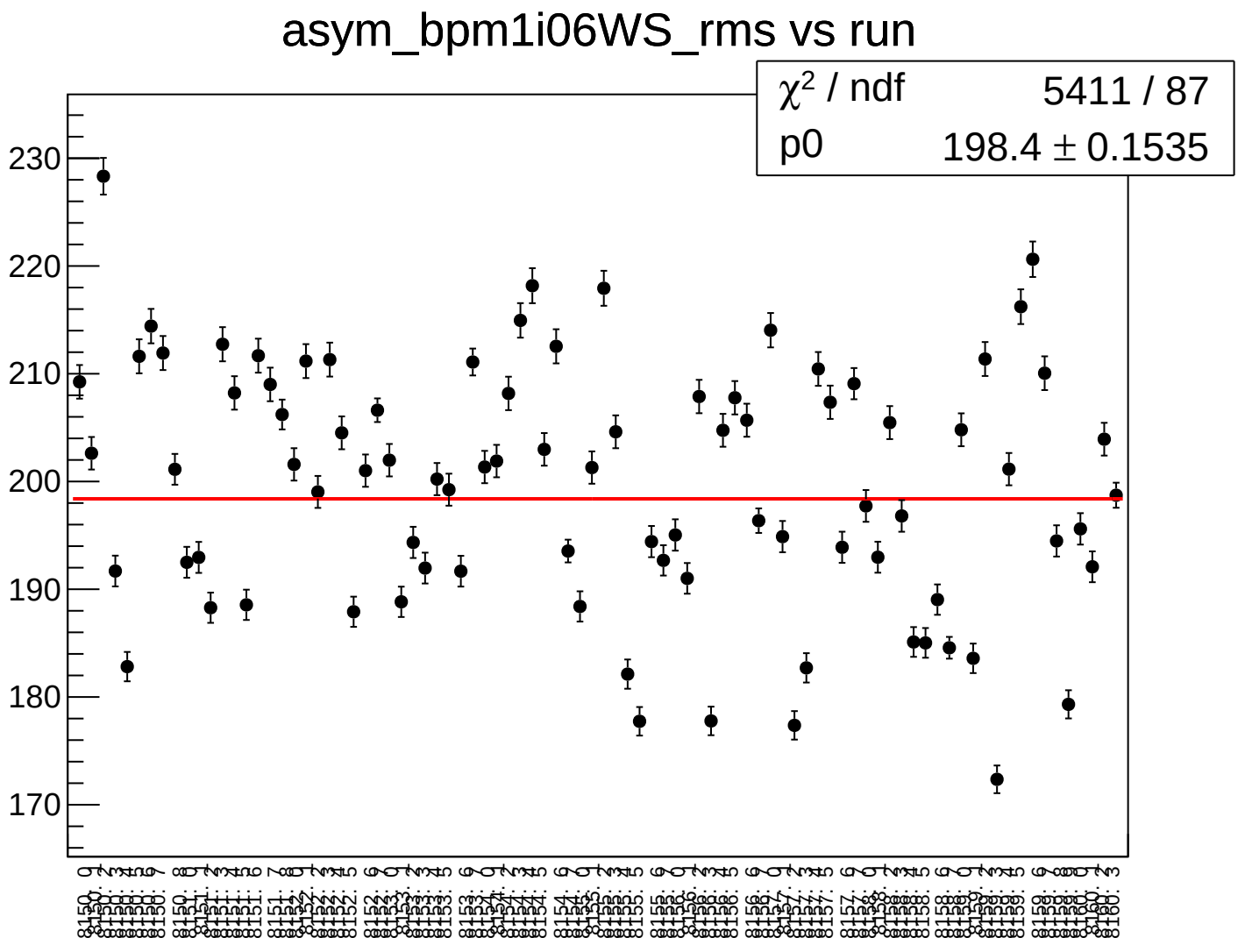

asym_bpm1i04WS_mean vs run
χ² / ndf 238.7 / 87
p0 −1.319e+04 ± 168
pull
Entries 88
Mean −1252
Std Dev 0

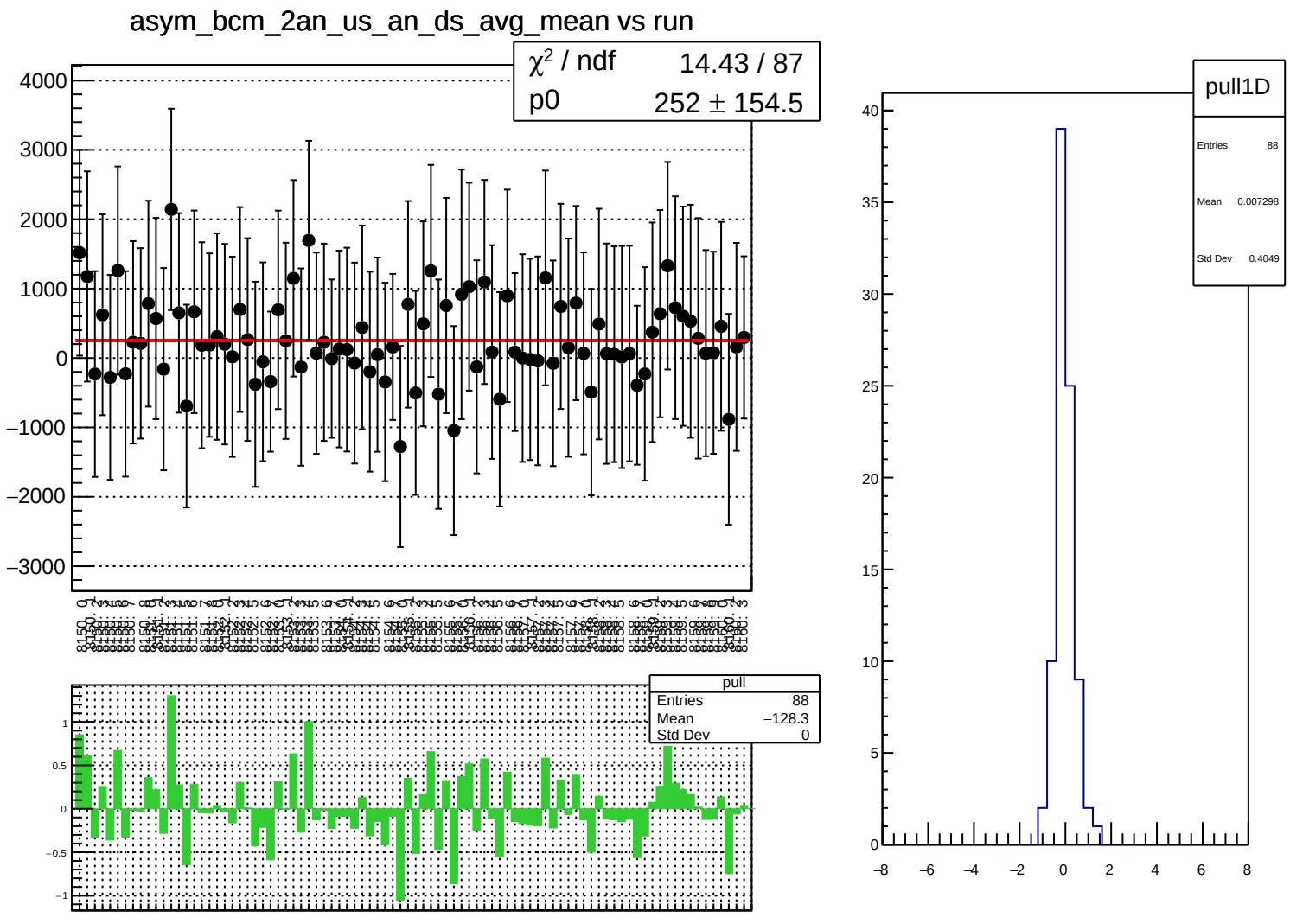

pull1D
Entries 88
Mean 0.02411
Std Dev 1.647

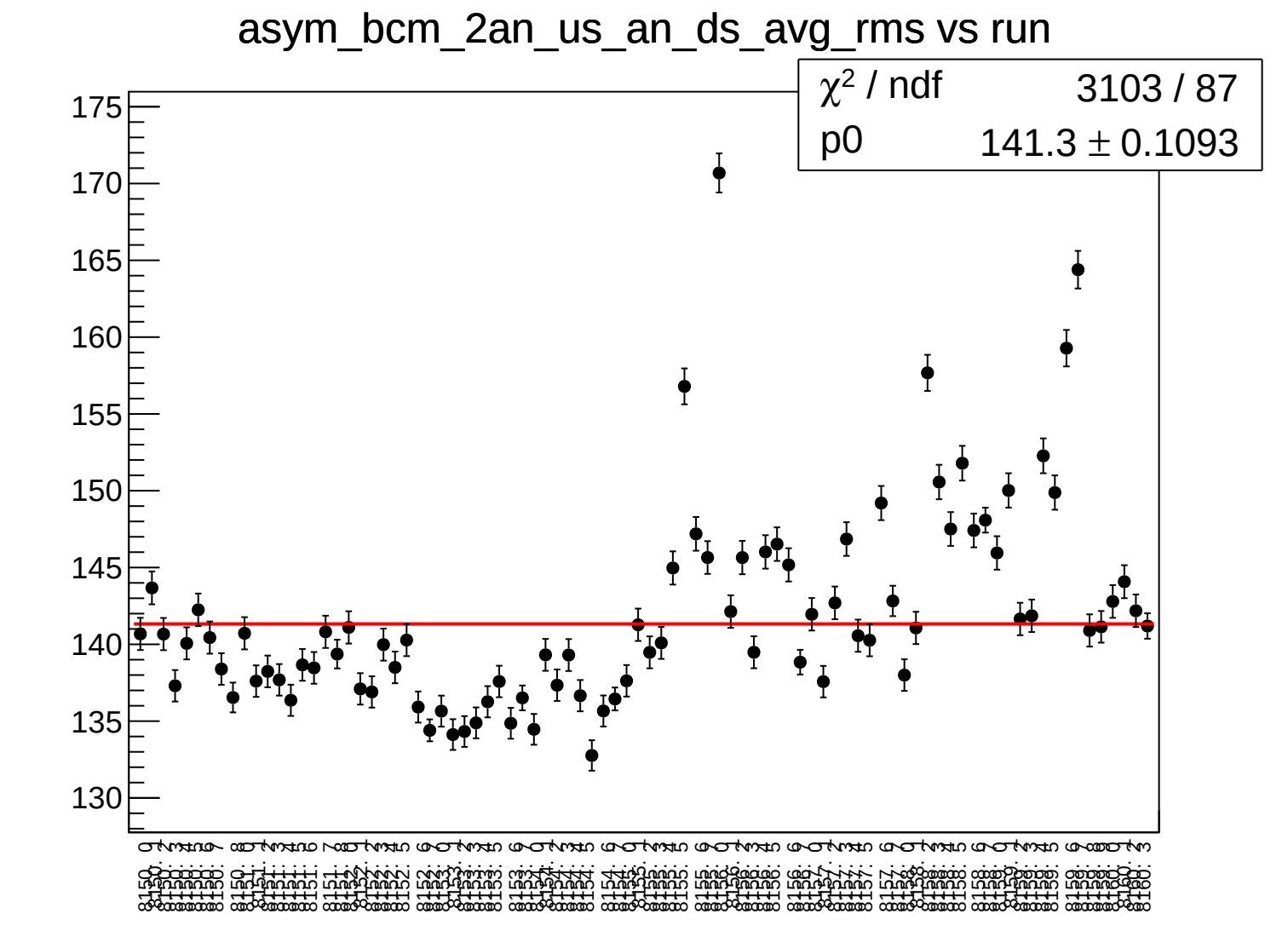

asym_bpm1i04WS_rms vs run
χ² / ndf 3975 / 87
p0 153.6 ± 0.1188
175
170
165
160
155
150
145
140
135

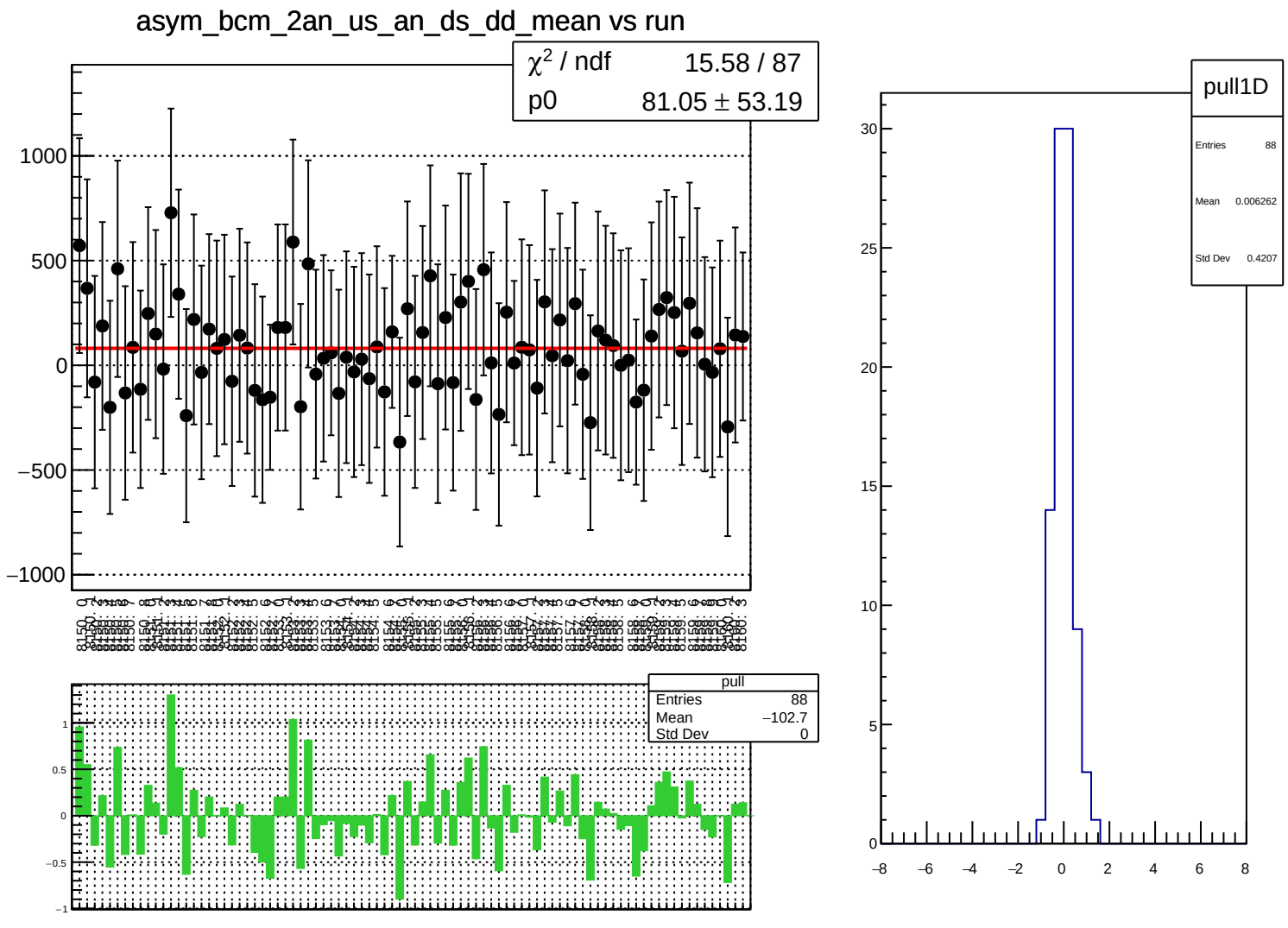

asym_bpm1i06WS_mean vs run
χ² / ndf 229.3 / 87
p0 −1.486e+04 ± 217
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean −811.5
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

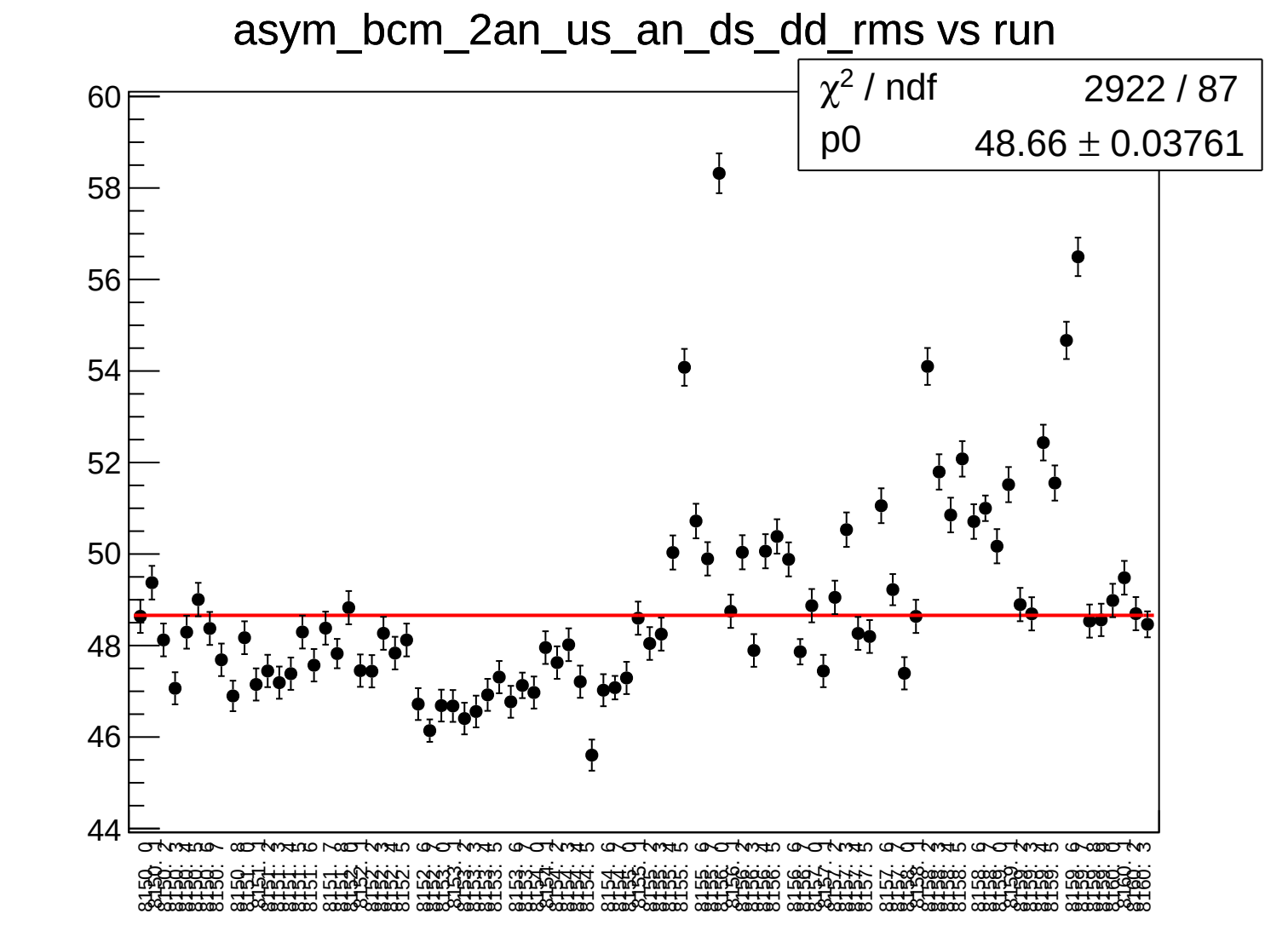

pull1D
Entries 88
Mean 0.0364
Std Dev 1.614
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

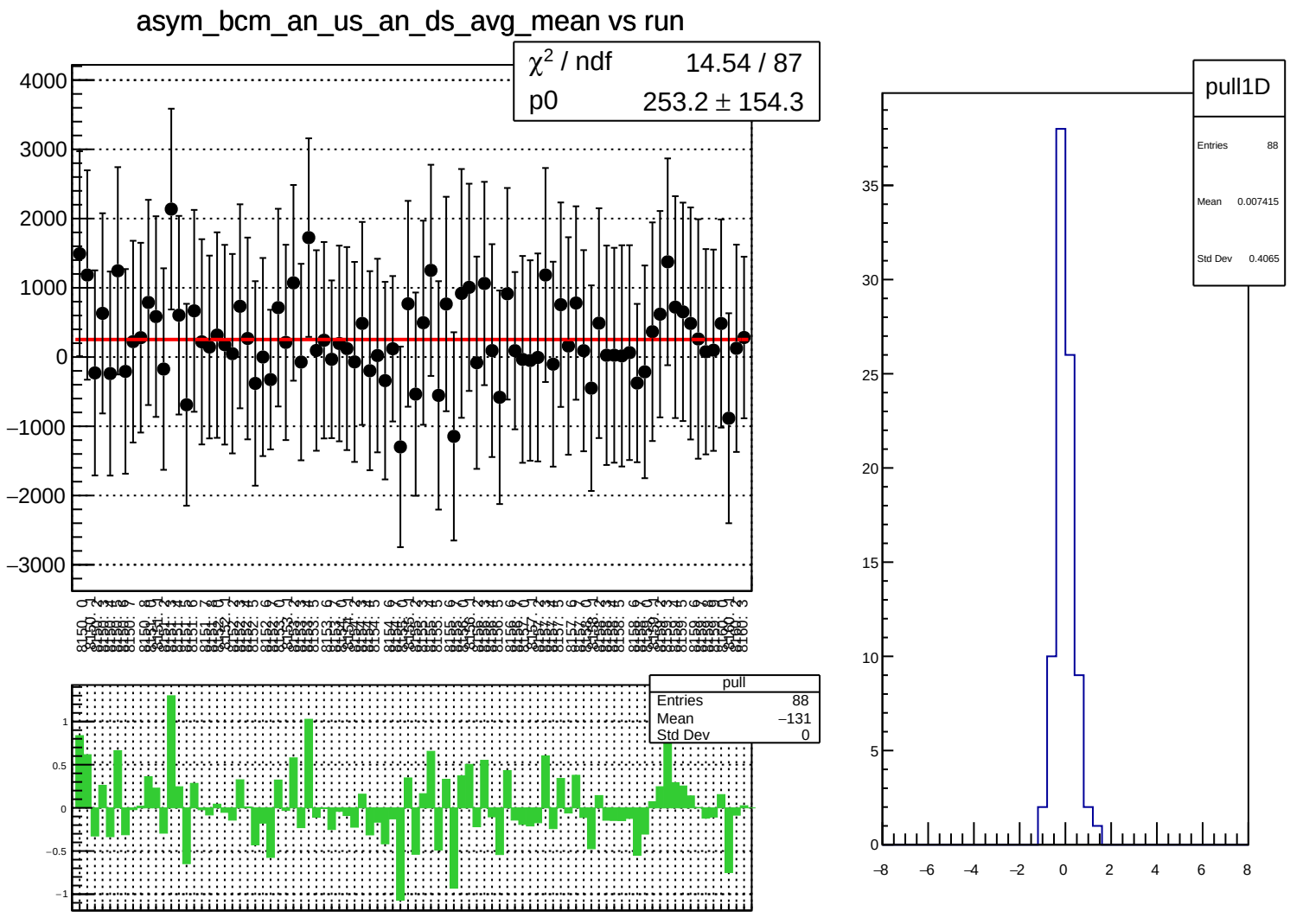

asym_bpm1i06WS_rms vs run
χ² / ndf 5411 / 87
p0 198.4 ± 0.1535
230
220
210
200
190
180
170

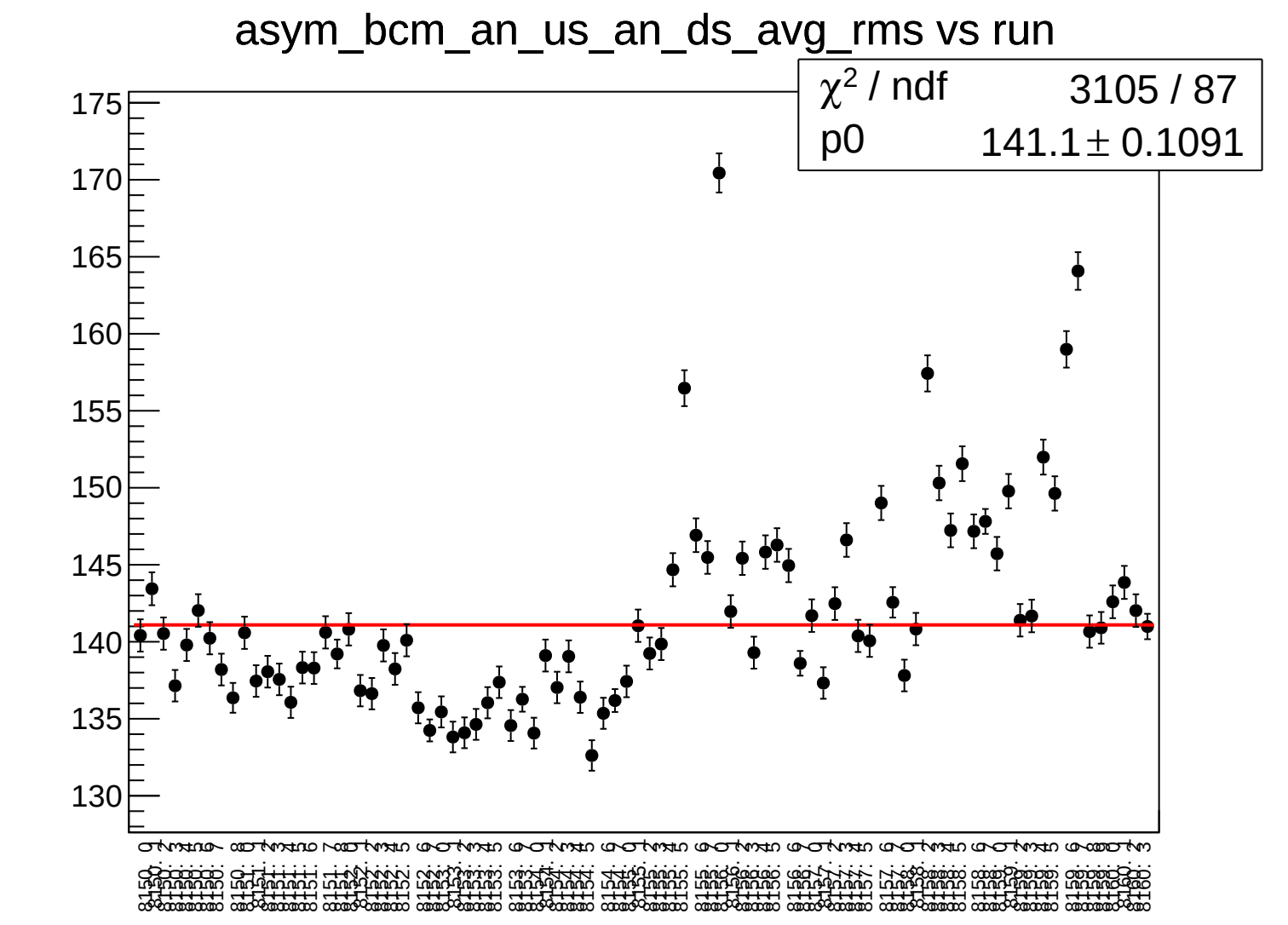

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 14.43 / 87
p0 252 ± 154.5
pull
Entries 88
Mean −128.3
Std Dev 0
pull1D
Entries 88
Mean 0.007298
Std Dev 0.4049

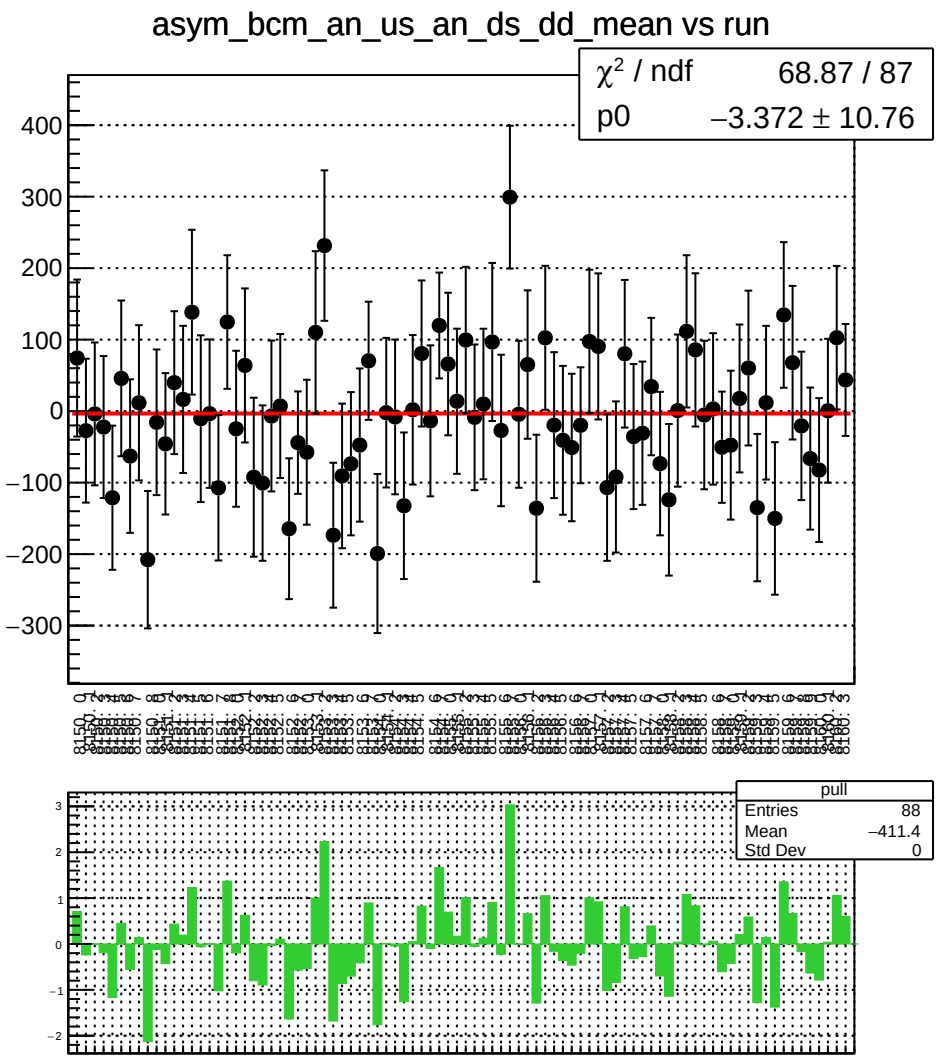

asym_bcm_2an_us_an_ds_avg_rms vs run
χ^2 / ndf 3103 / 87
p0 141.3 ± 0.1093
175
170
165
160
155
150
145
140
135
130

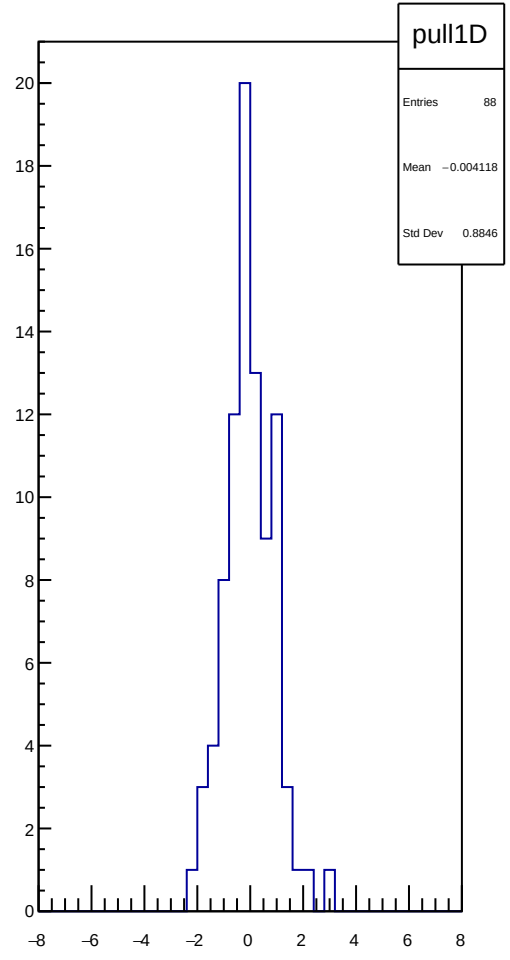

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 15.58 / 87
p0 81.05 ± 53.19
1000
500
0
−500
−1000
pull
Entries 88
Mean −102.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.006262
Std Dev 0.4207
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

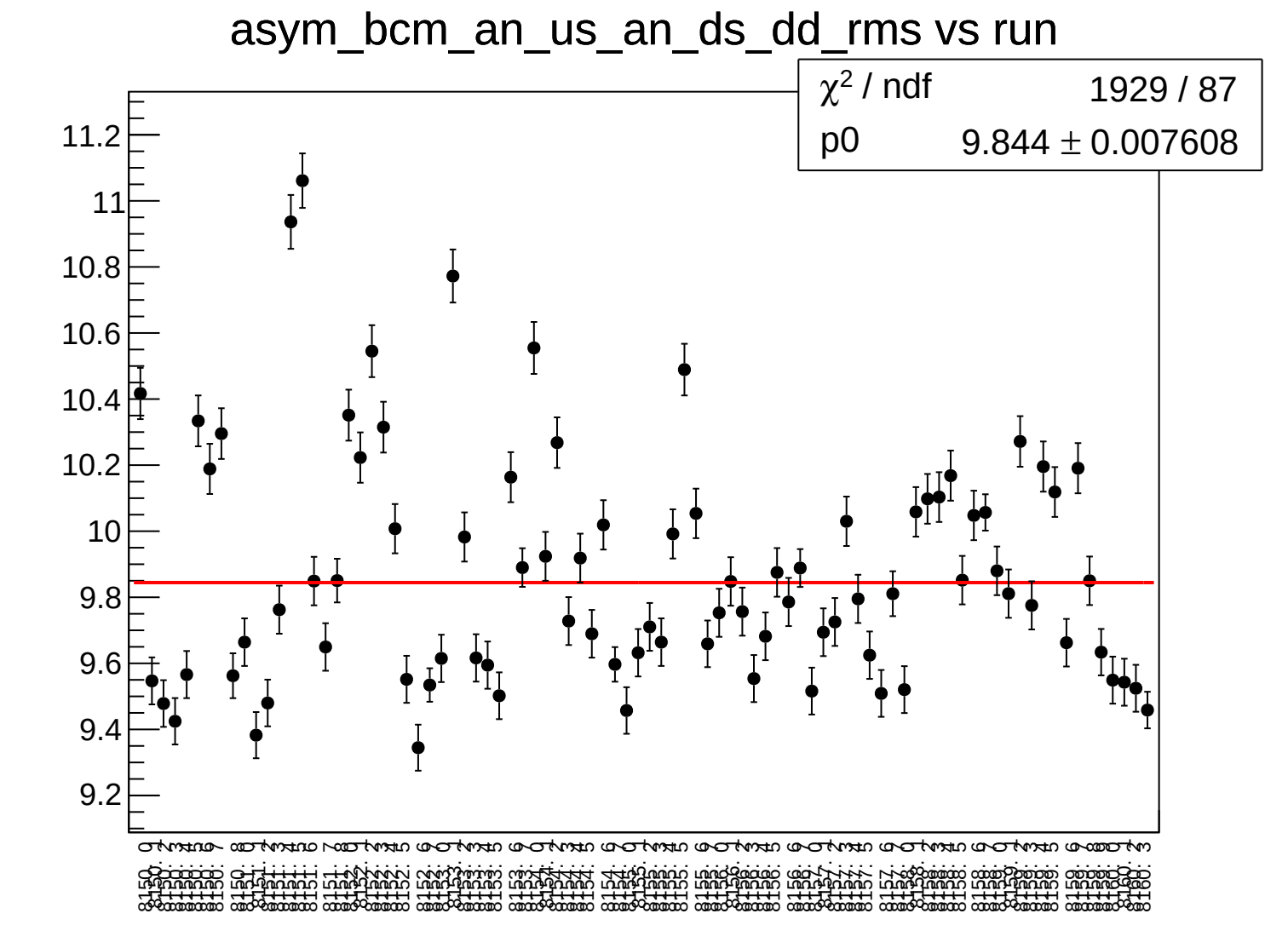

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 2922 / 87
p0 48.66 ± 0.03761
60
58
56
54
52
50
48
46
44

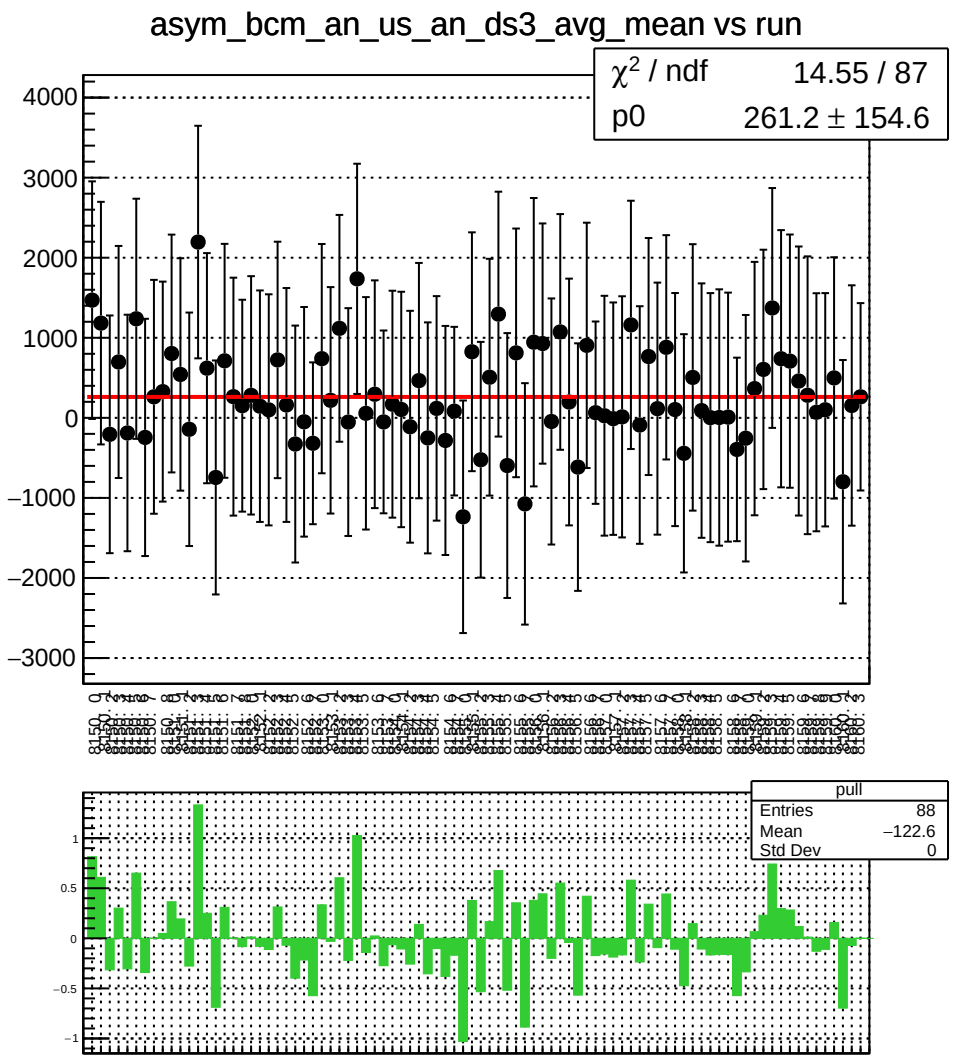

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 14.54 / 87
p0 253.2 ± 154.3
pull
Entries 88
Mean −131
Std Dev 0
pull1D
Entries 88
Mean 0.007415
Std Dev 0.4065

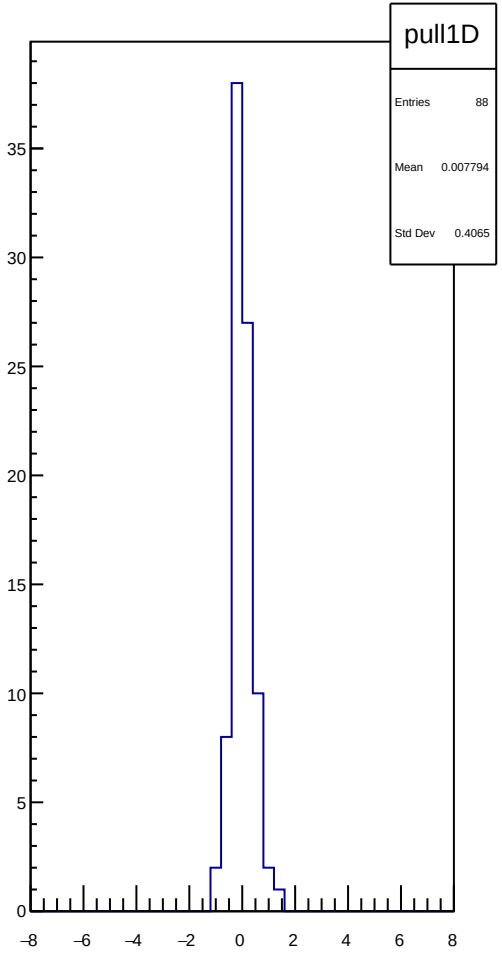

asym_bcm_an_us_an_ds_avg_rms vs run
χ^2 / ndf 3105 / 87
p0 141.1 ± 0.1091
175
170
165
160
155
150
145
140
135
130

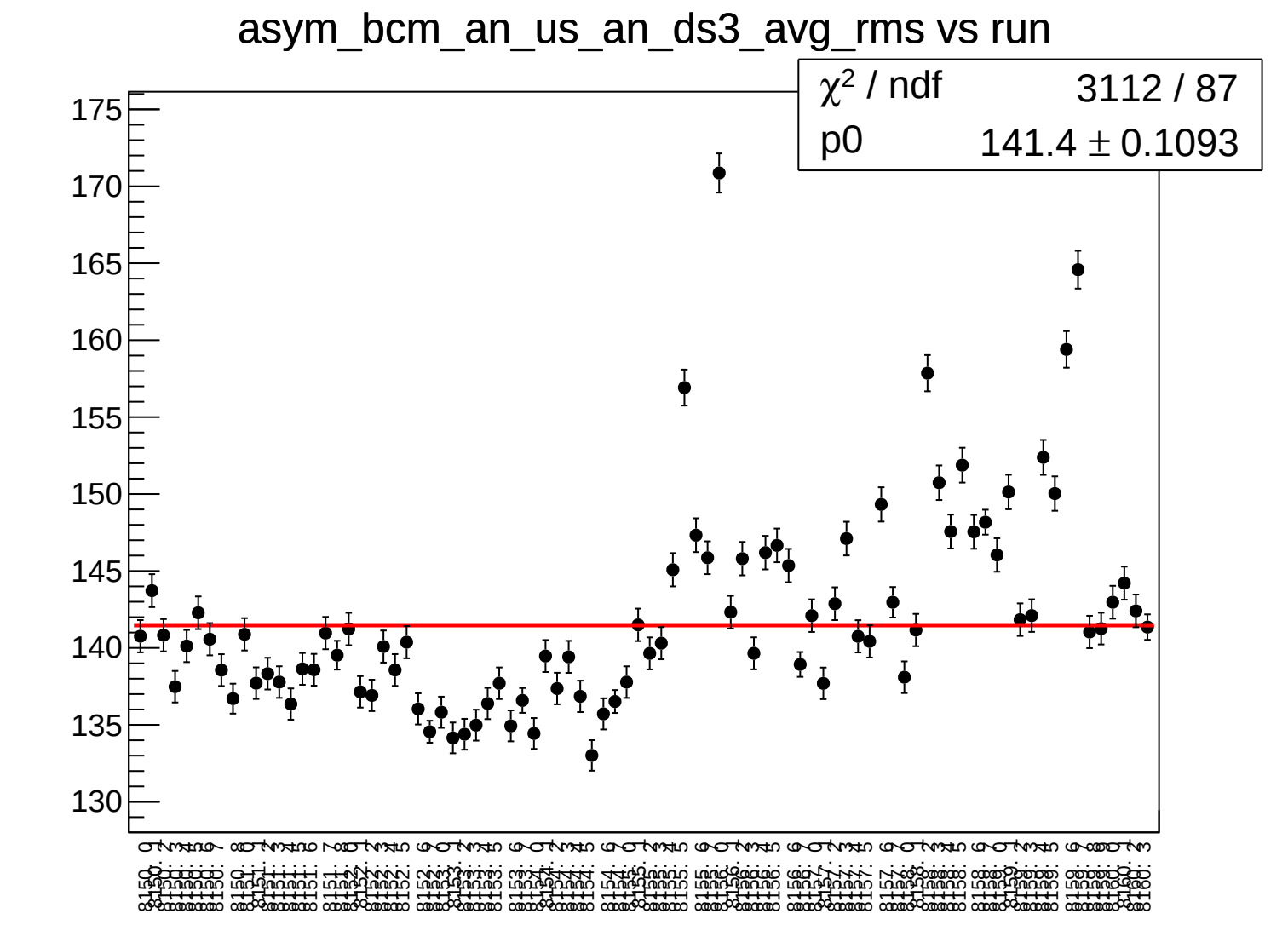

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 68.87 / 87
p0 −3.372 ± 10.76
pull
Entries 88
Mean −411.4
Std Dev 0

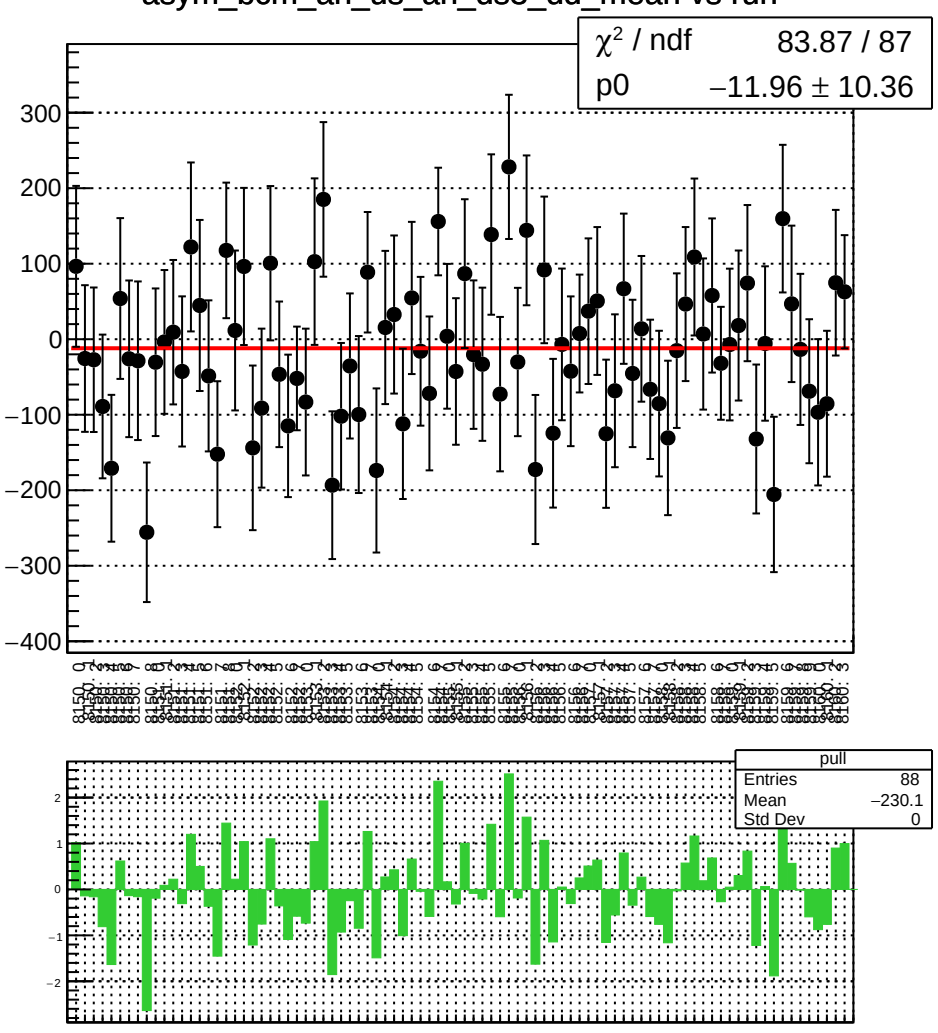

pull1D
Entries 88
Mean −0.004118
Std Dev 0.8846

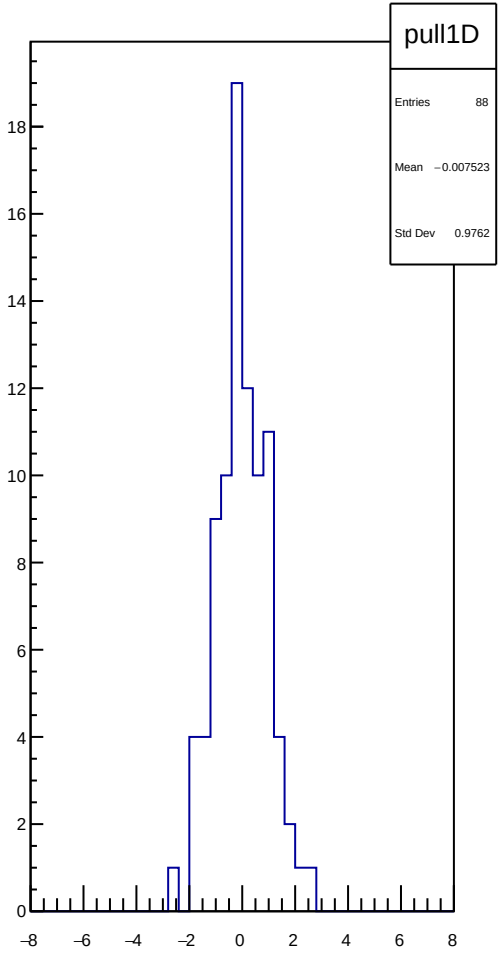

asym_bcm_an_us_an_ds_dd_rms vs run
χ^2 / ndf 1929 / 87
p0 9.844 ± 0.007608
11.2
11
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2

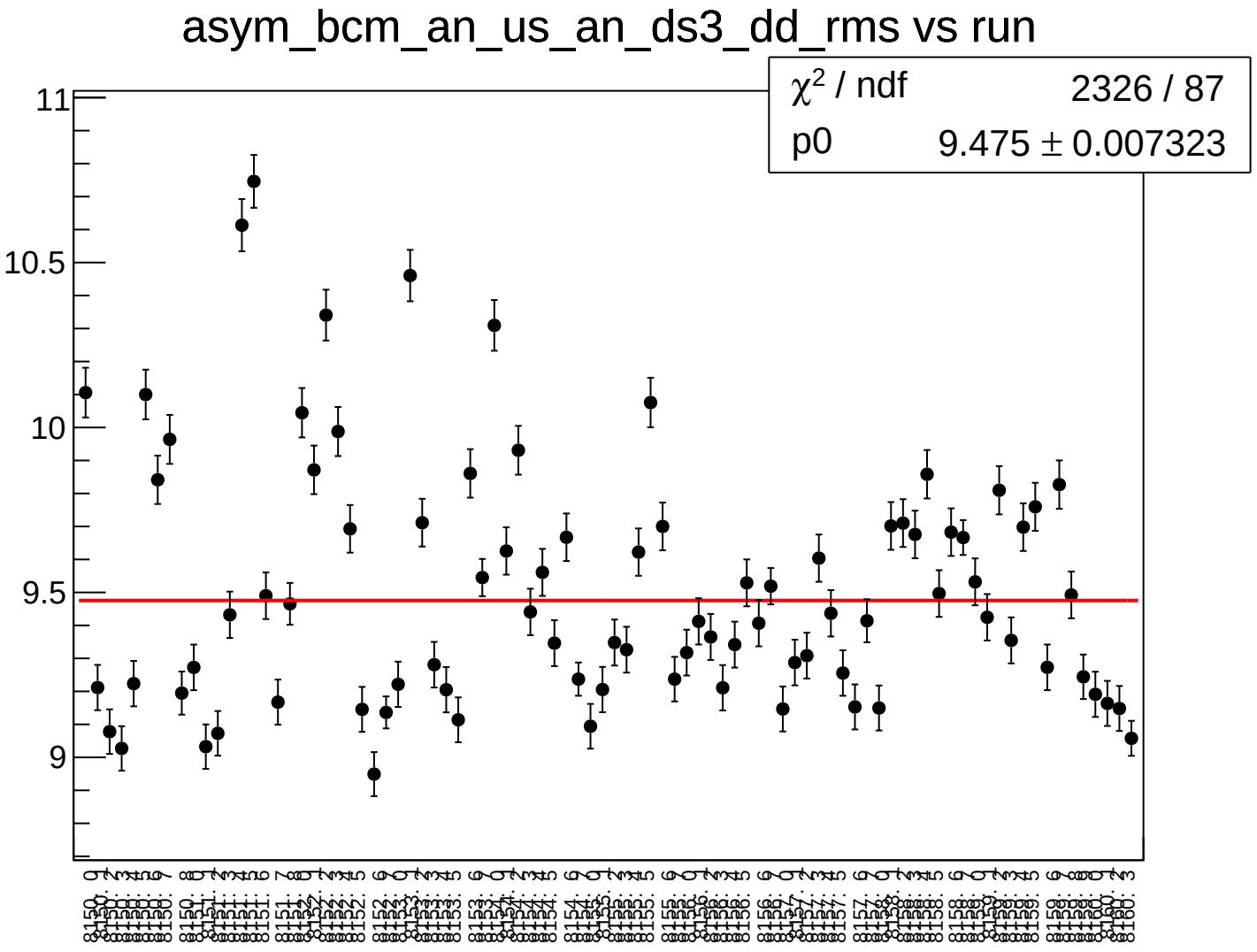

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 14.55 / 87
p0 261.2 ± 154.6
pull
Entries 88
Mean −122.6
Std Dev 0

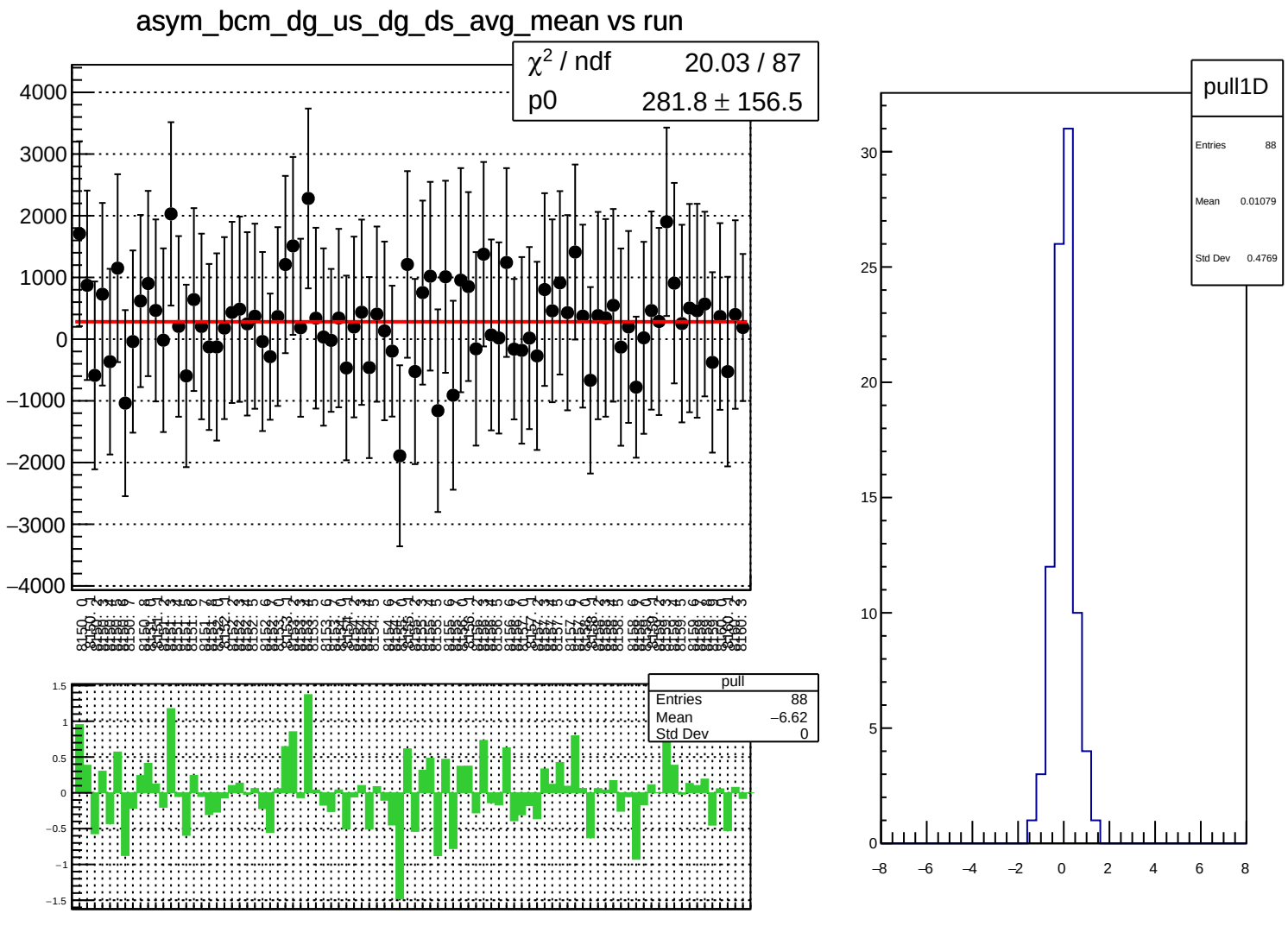

pull1D
Entries 88
Mean 0.007794
Std Dev 0.4065

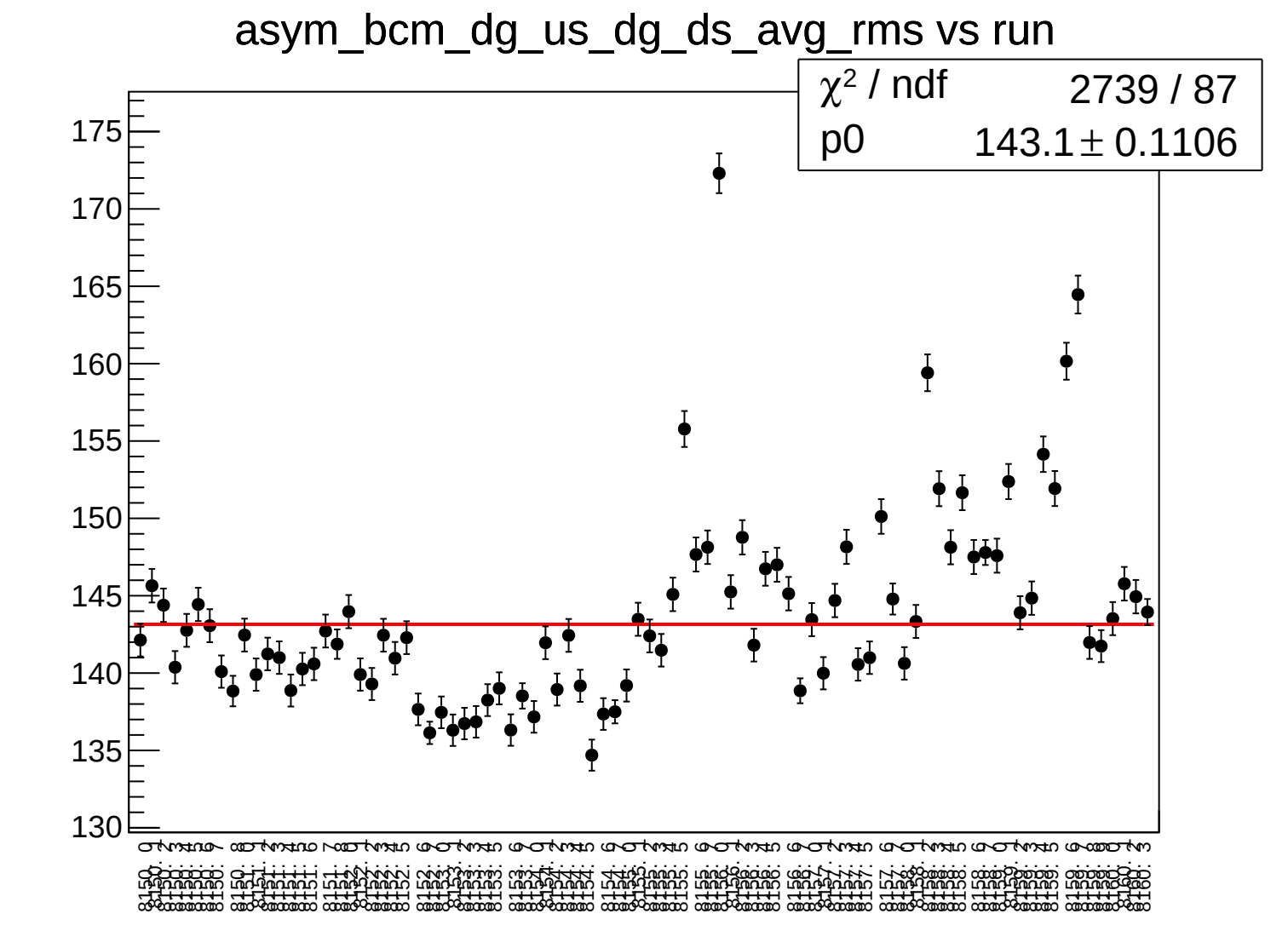

asym_bcm_an_us_an_ds3_avg_rms vs run
χ^2 / ndf 3112 / 87
p0 141.4 ± 0.1093
175
170
165
160
155
150
145
140
135
130

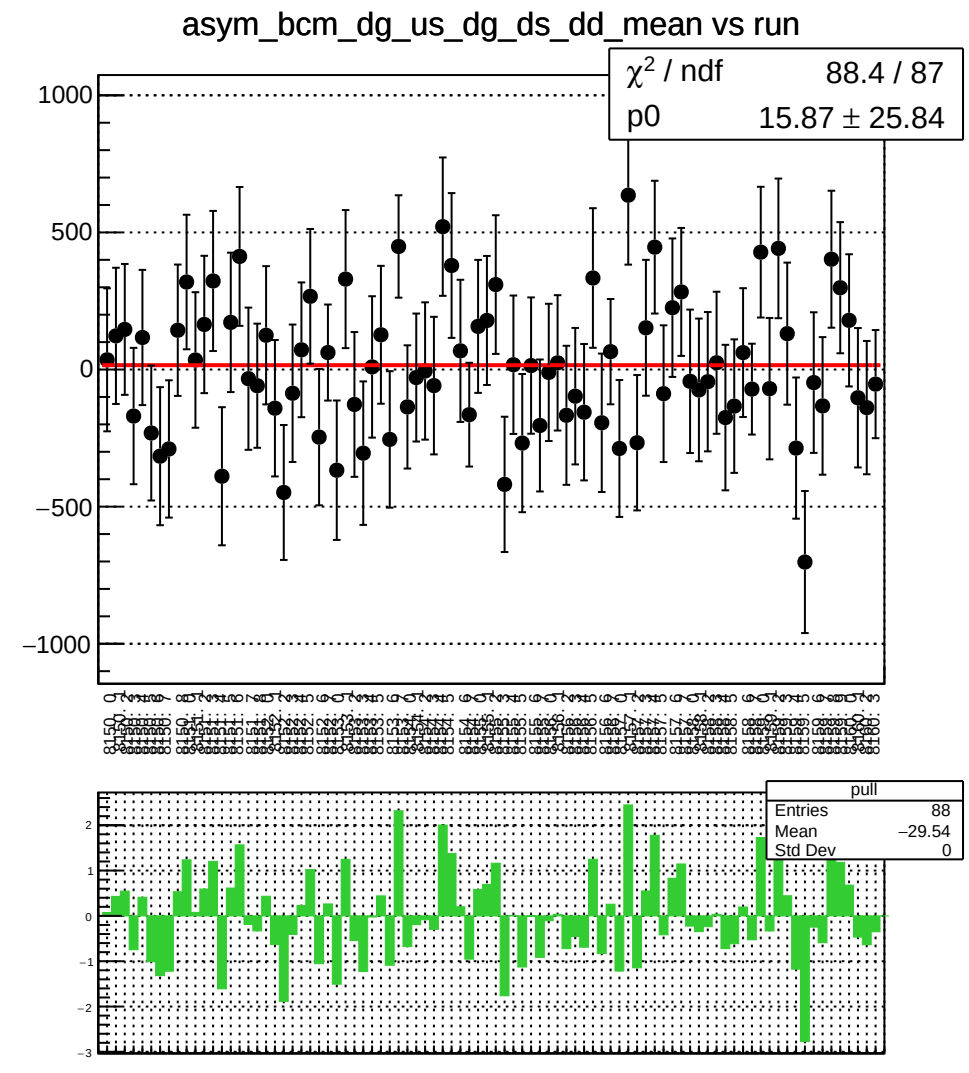

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 83.87 / 87
p0 −11.96 ± 10.36
pull
Entries 88
Mean −230.1
Std Dev 0

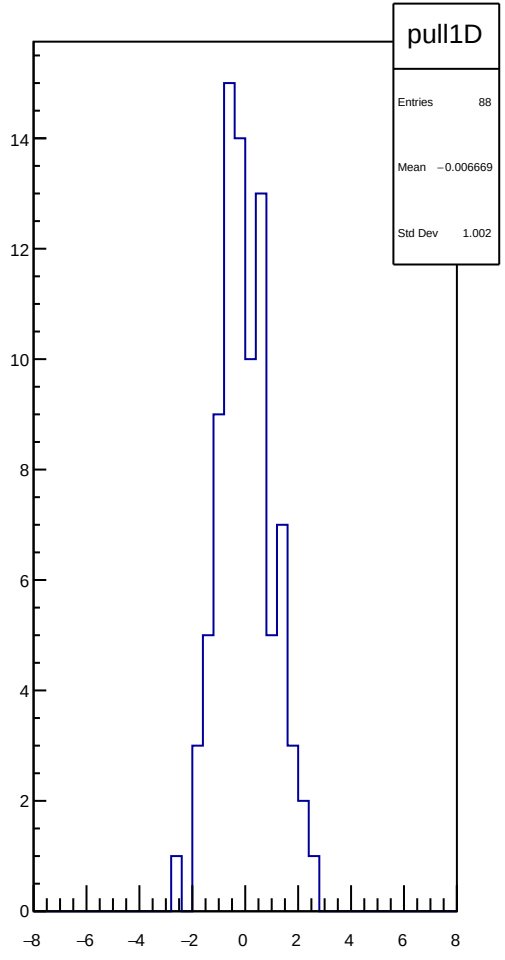

pull1D
Entries 88
Mean −0.007523
Std Dev 0.9762

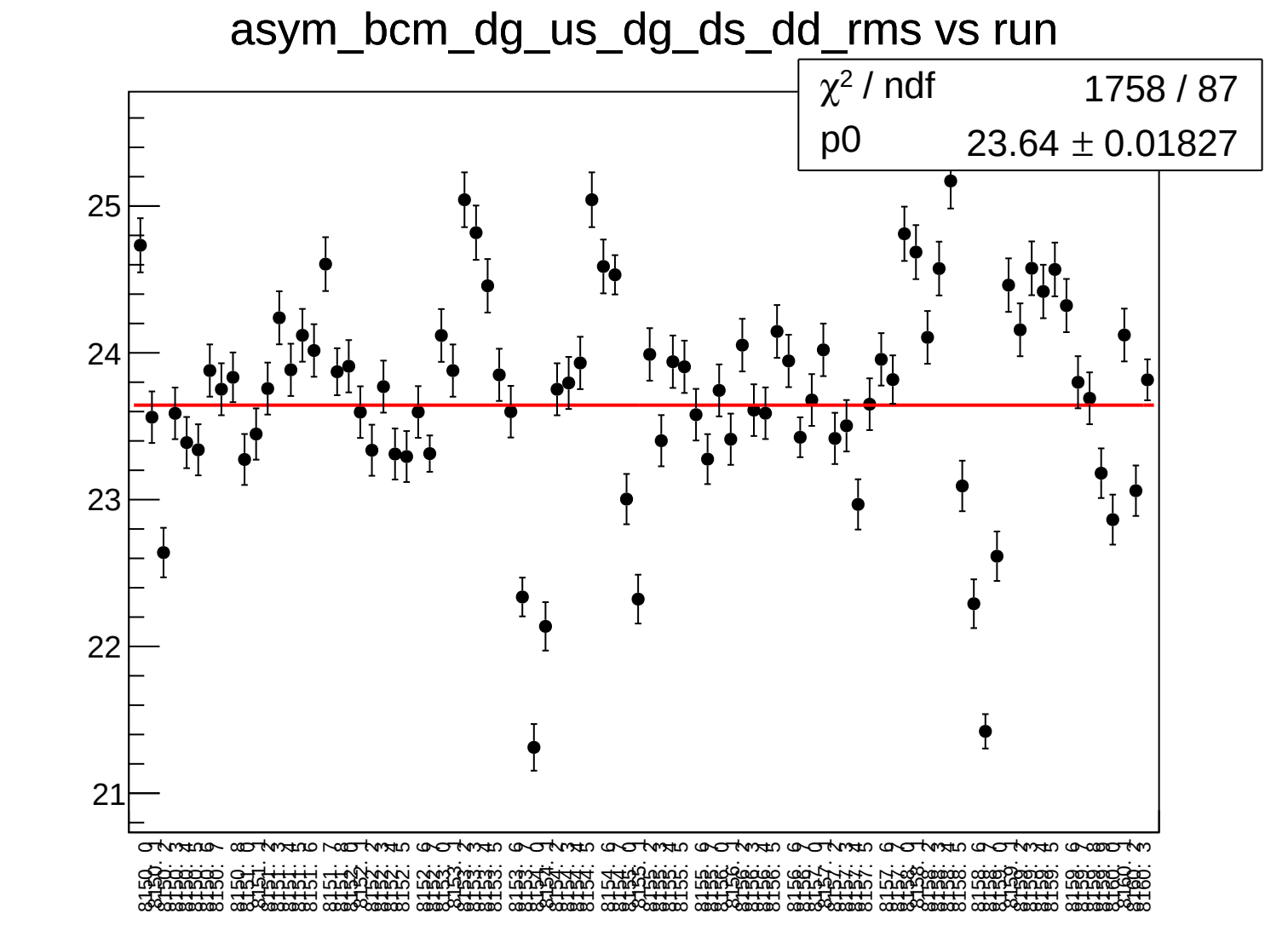

asym_bcm_an_us_an_ds3_dd_rms vs run
χ^2 / ndf 2326 / 87
p0 9.475 ± 0.007323
11
10.5
10
9.5
9

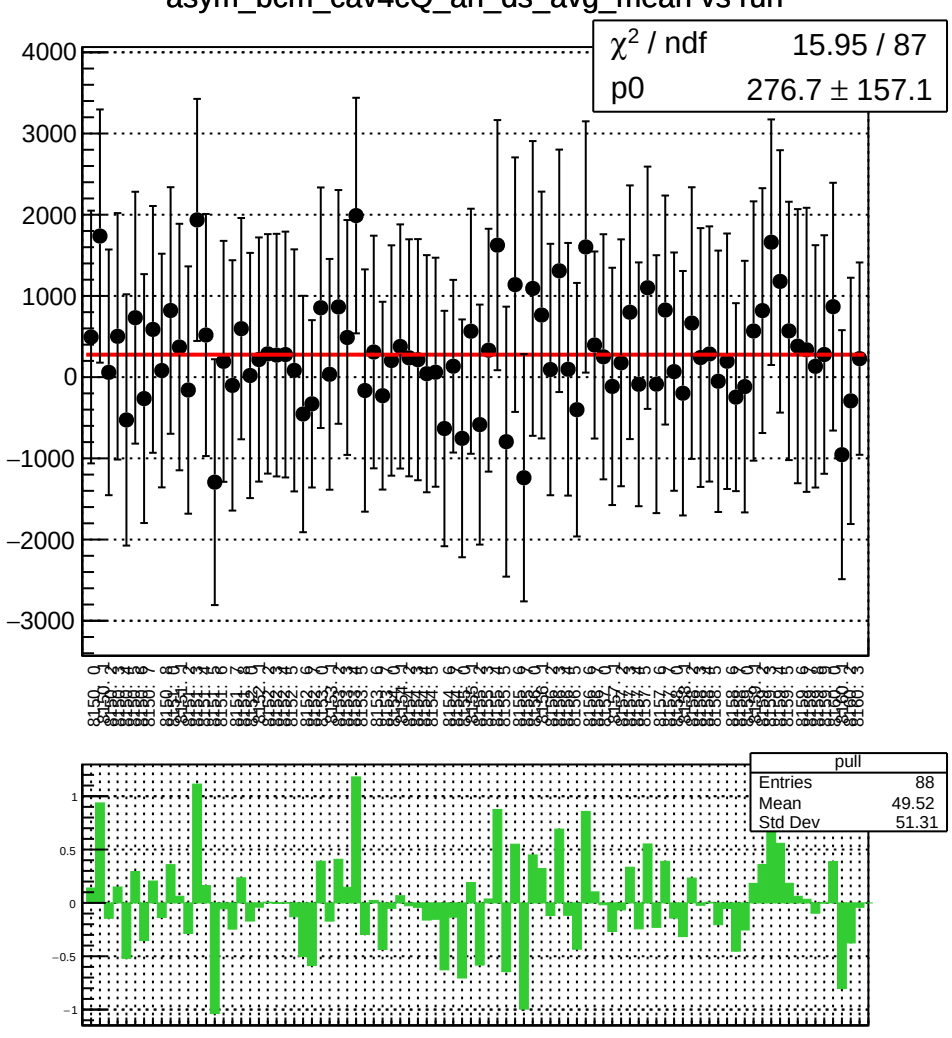

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 20.03 / 87
p0 281.8 ± 156.5
pull
Entries 88
Mean −6.62
Std Dev 0
pull1D
Entries 88
Mean 0.01079
Std Dev 0.4769

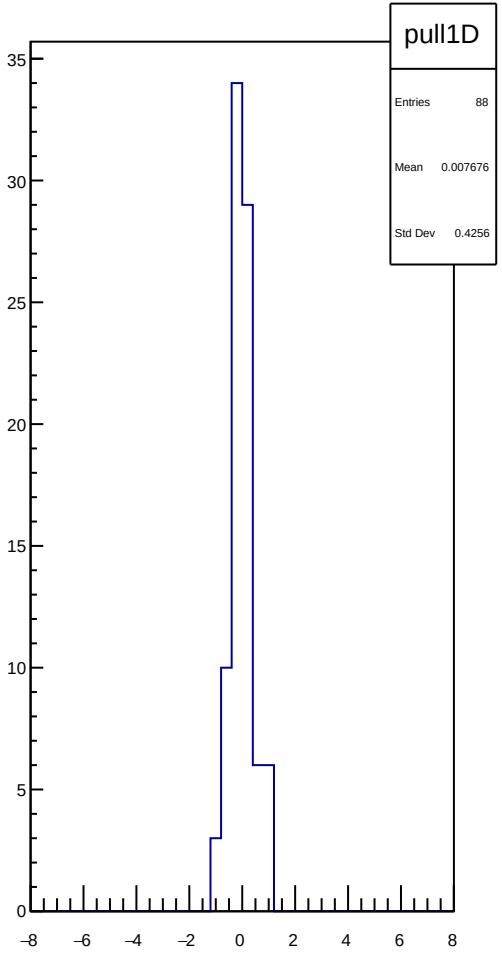

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 2739 / 87
p0 143.1 ± 0.1106
175
170
165
160
155
150
145
140
135
130

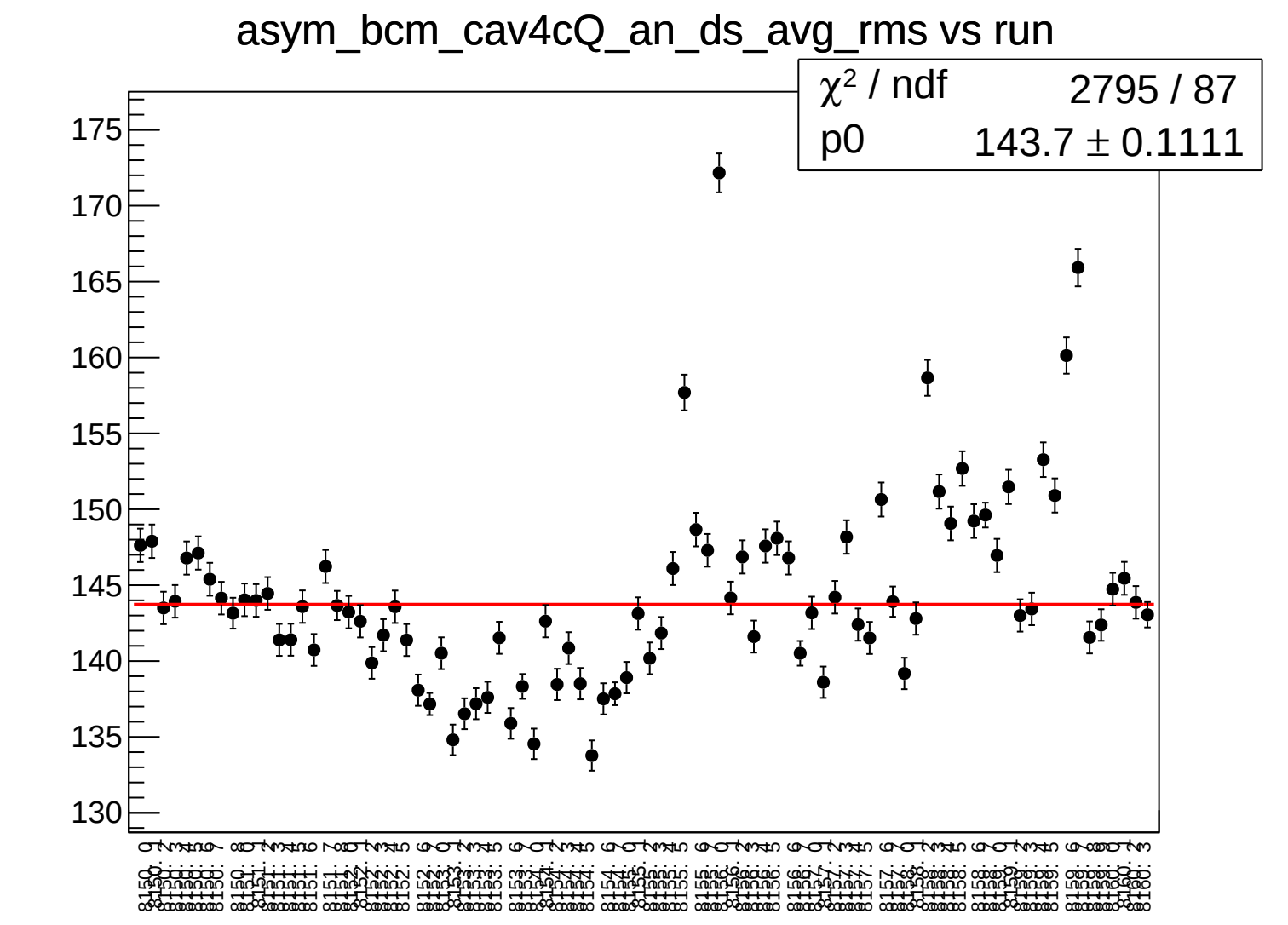

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 88.4 / 87
p0 15.87 ± 25.84
1000
500
0
−500
−1000
pull
Entries 88
Mean −29.54
Std Dev 0
2
1
0
−1
−2
−3

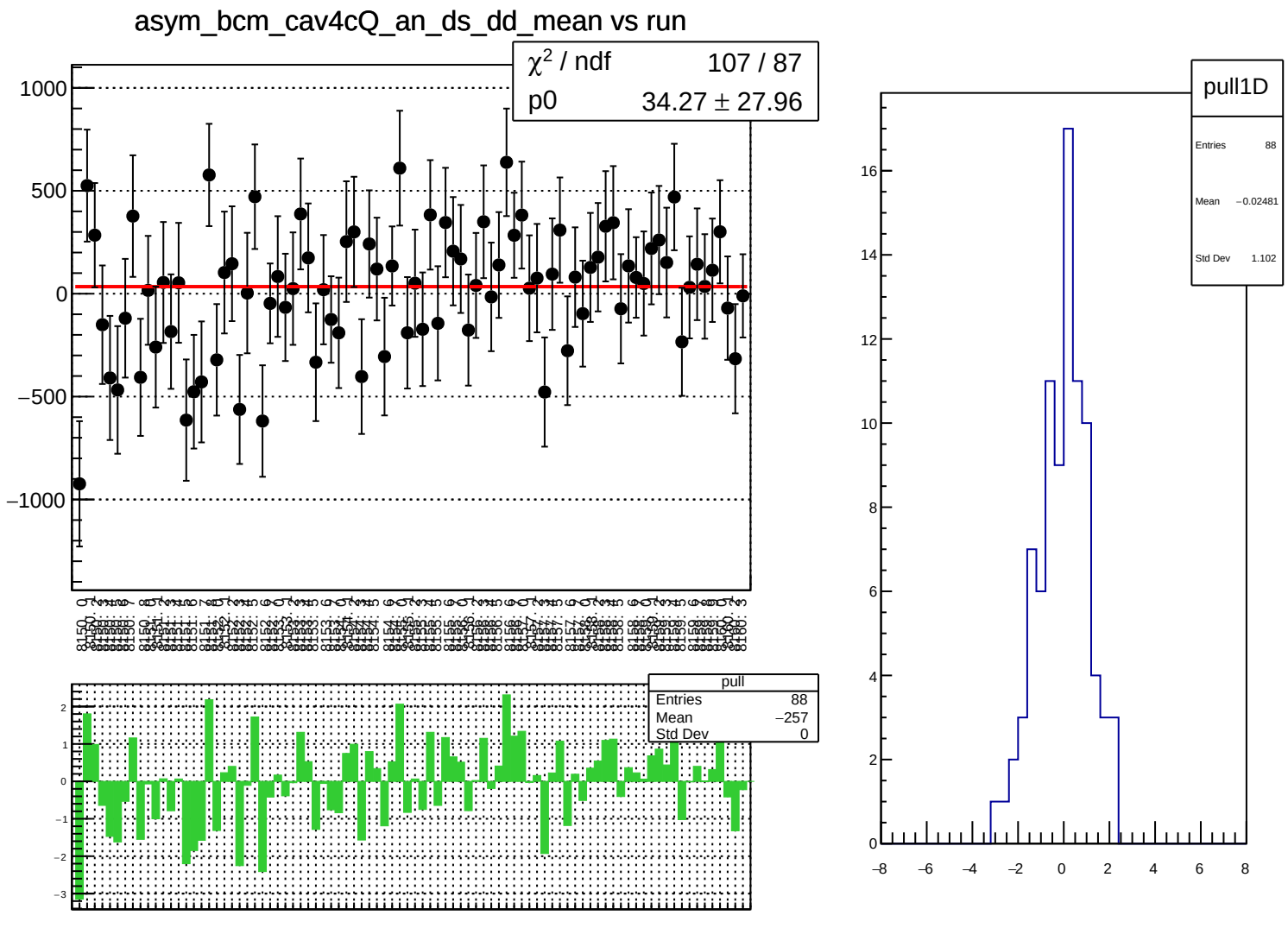

pull1D
Entries 88
Mean −0.006669
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

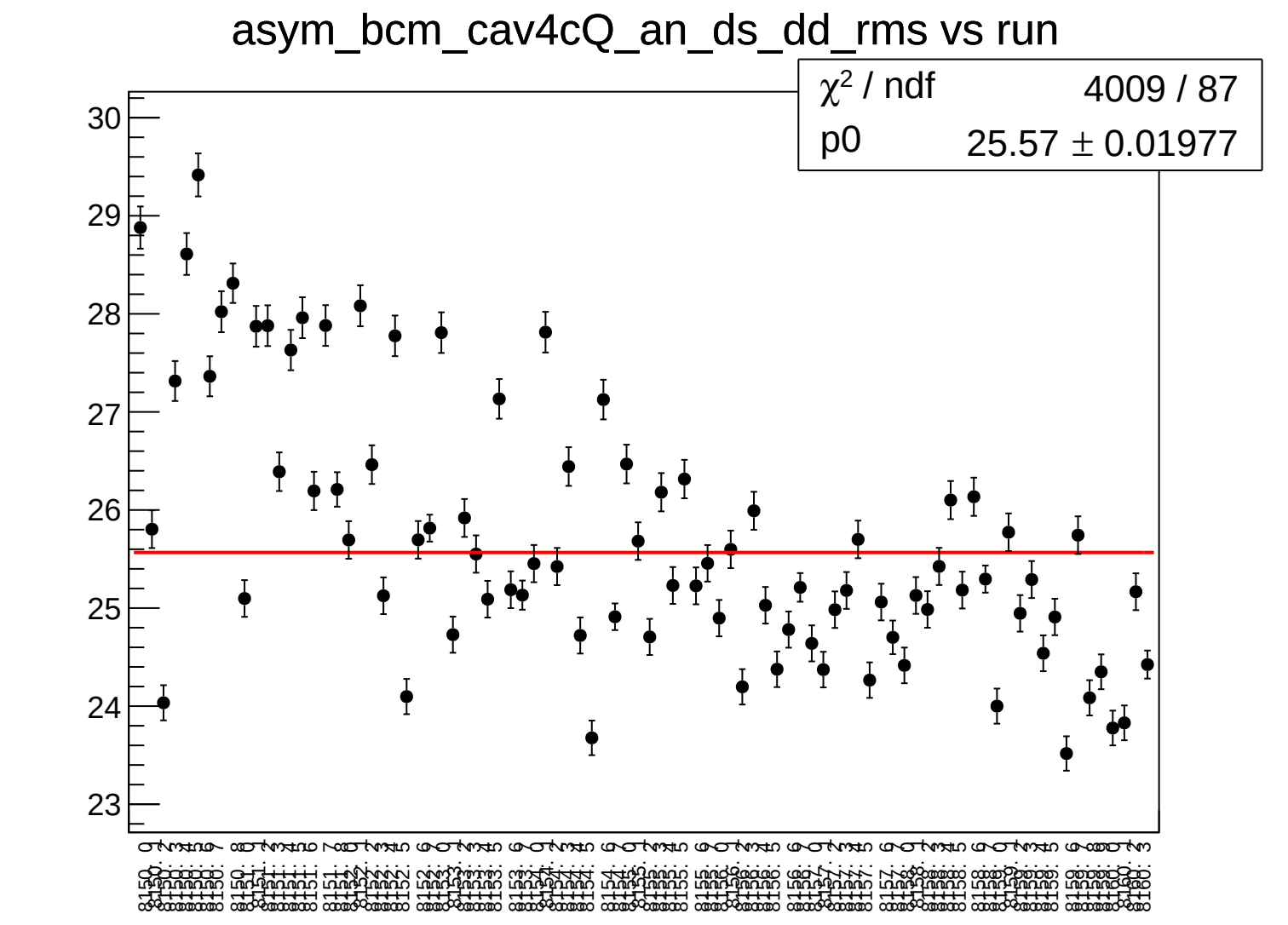

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1758 / 87
p0 23.64 ± 0.01827
25
24
23
22
21

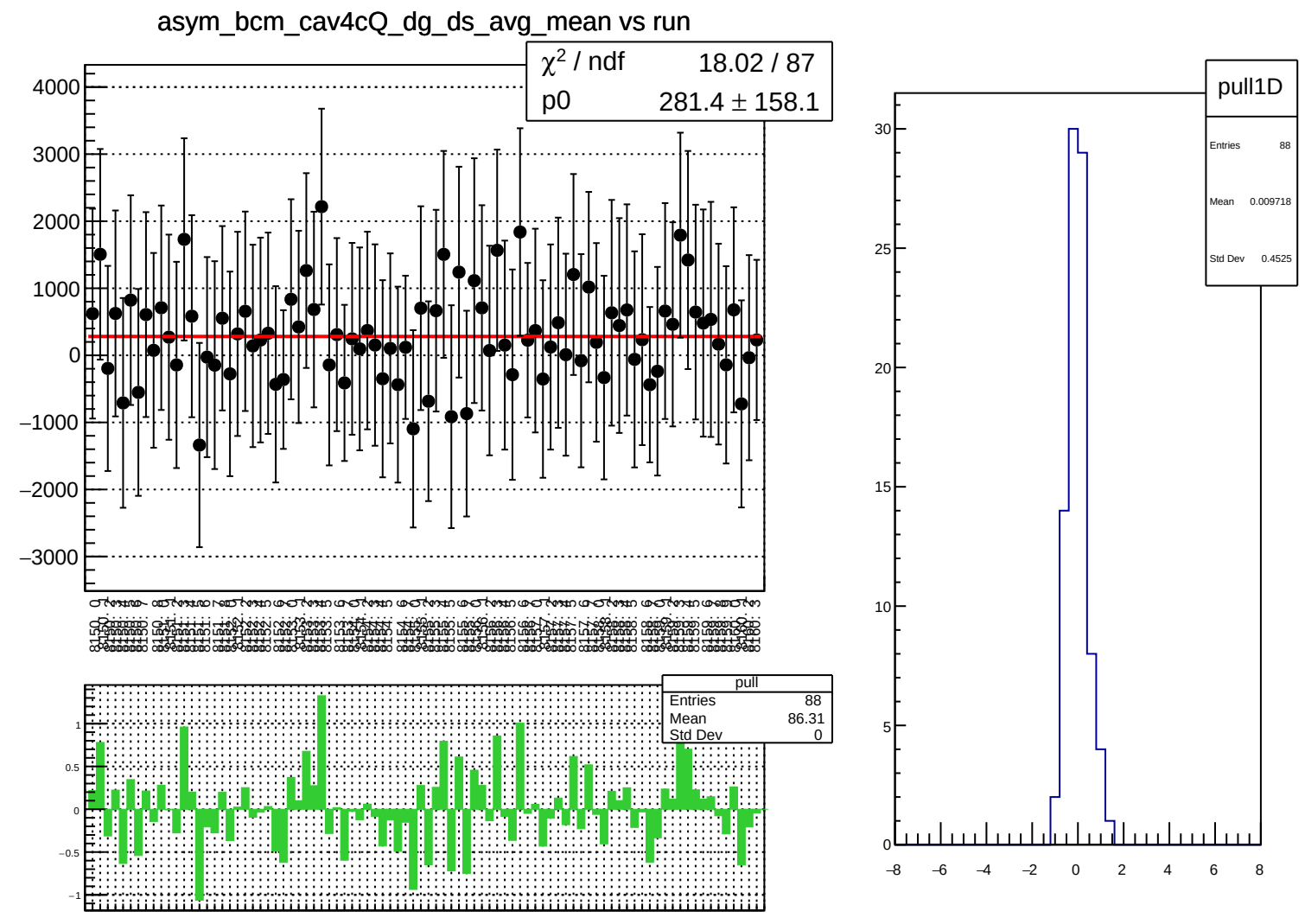

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 15.95 / 87
p0 276.7 ± 157.1
pull
Entries 88
Mean 49.52
Std Dev 51.31

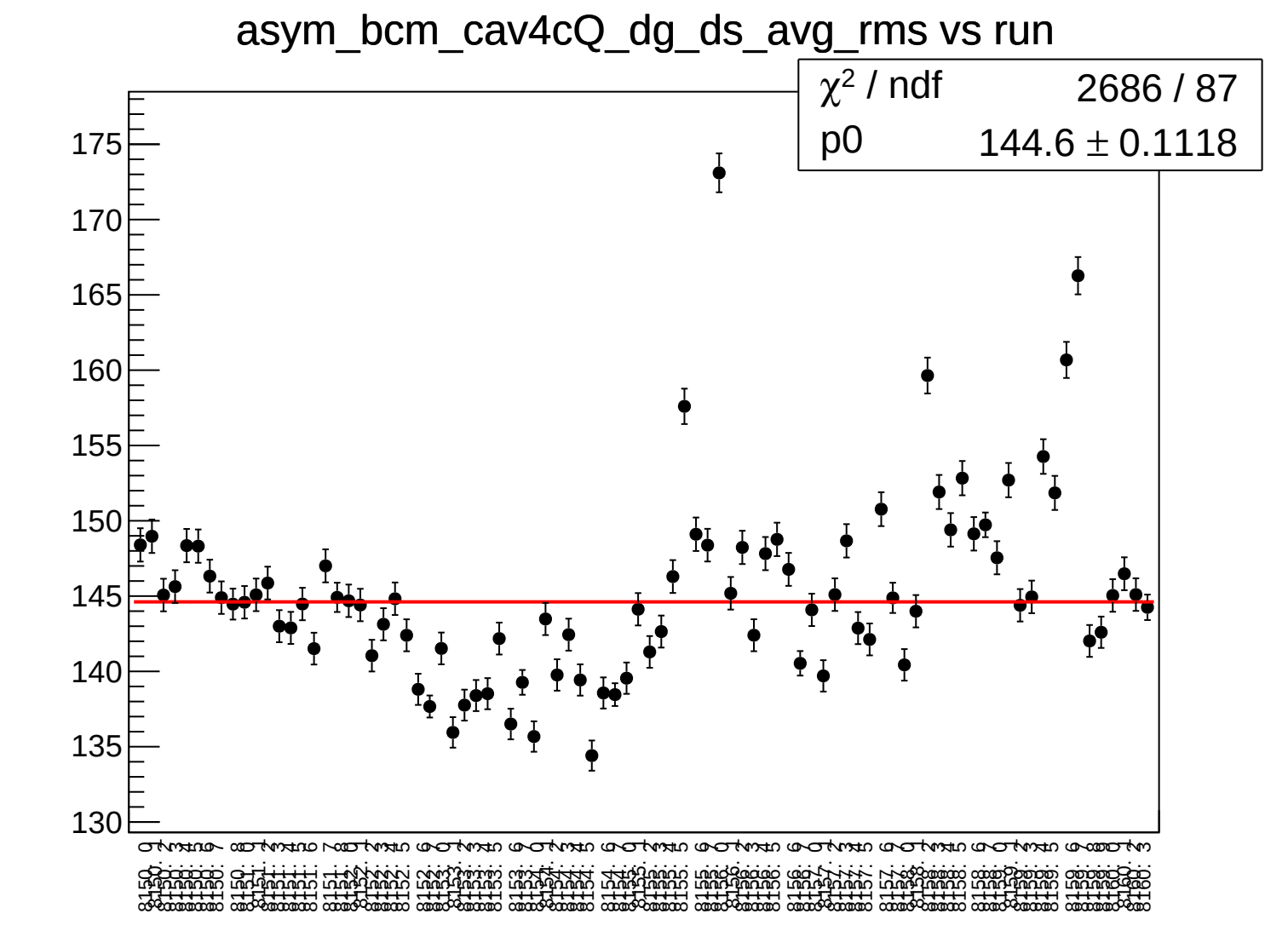

pull1D
Entries 88
Mean 0.007676
Std Dev 0.4256

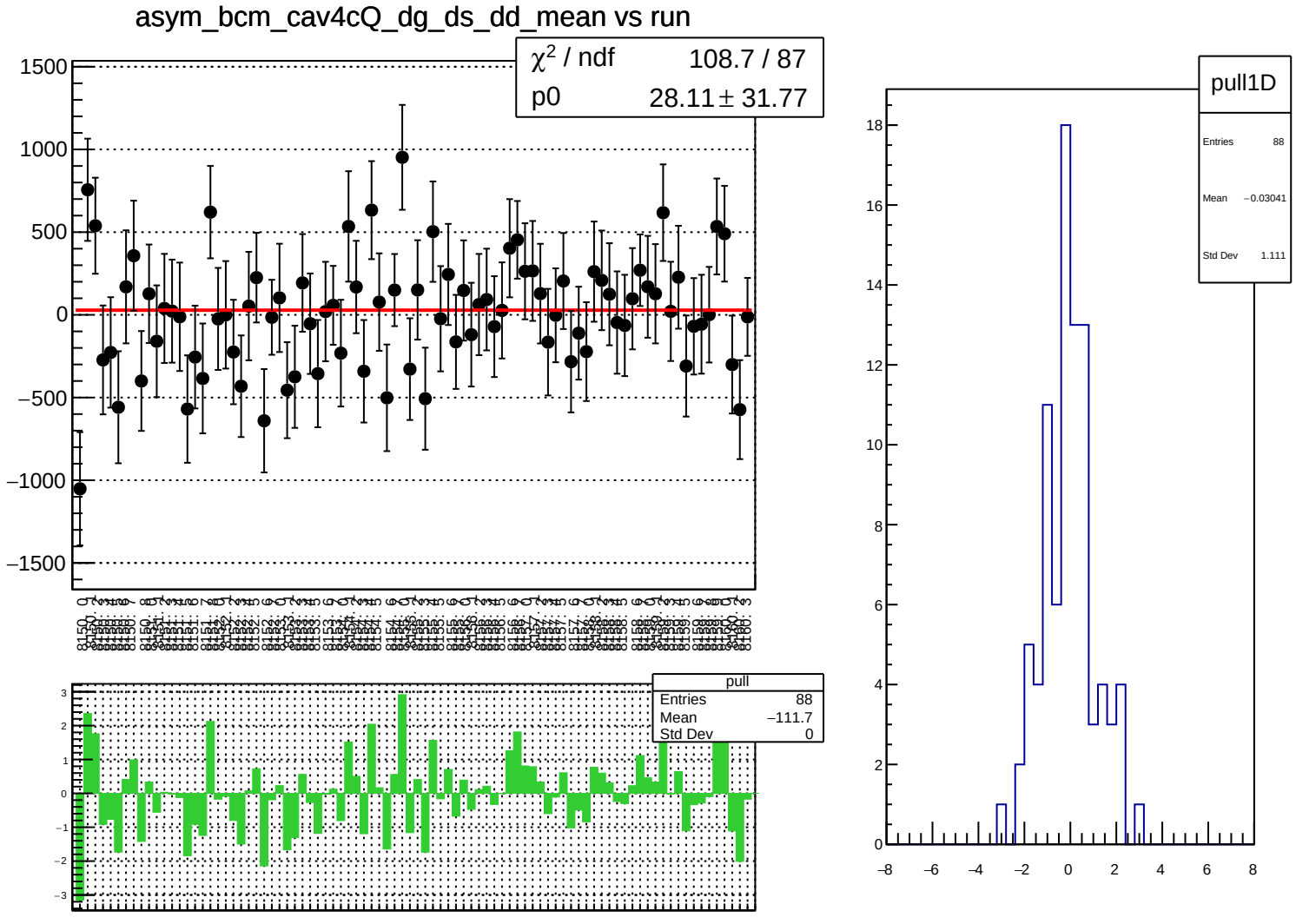

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 2795 / 87
p0 143.7 ± 0.1111
175
170
165
160
155
150
145
140
135
130

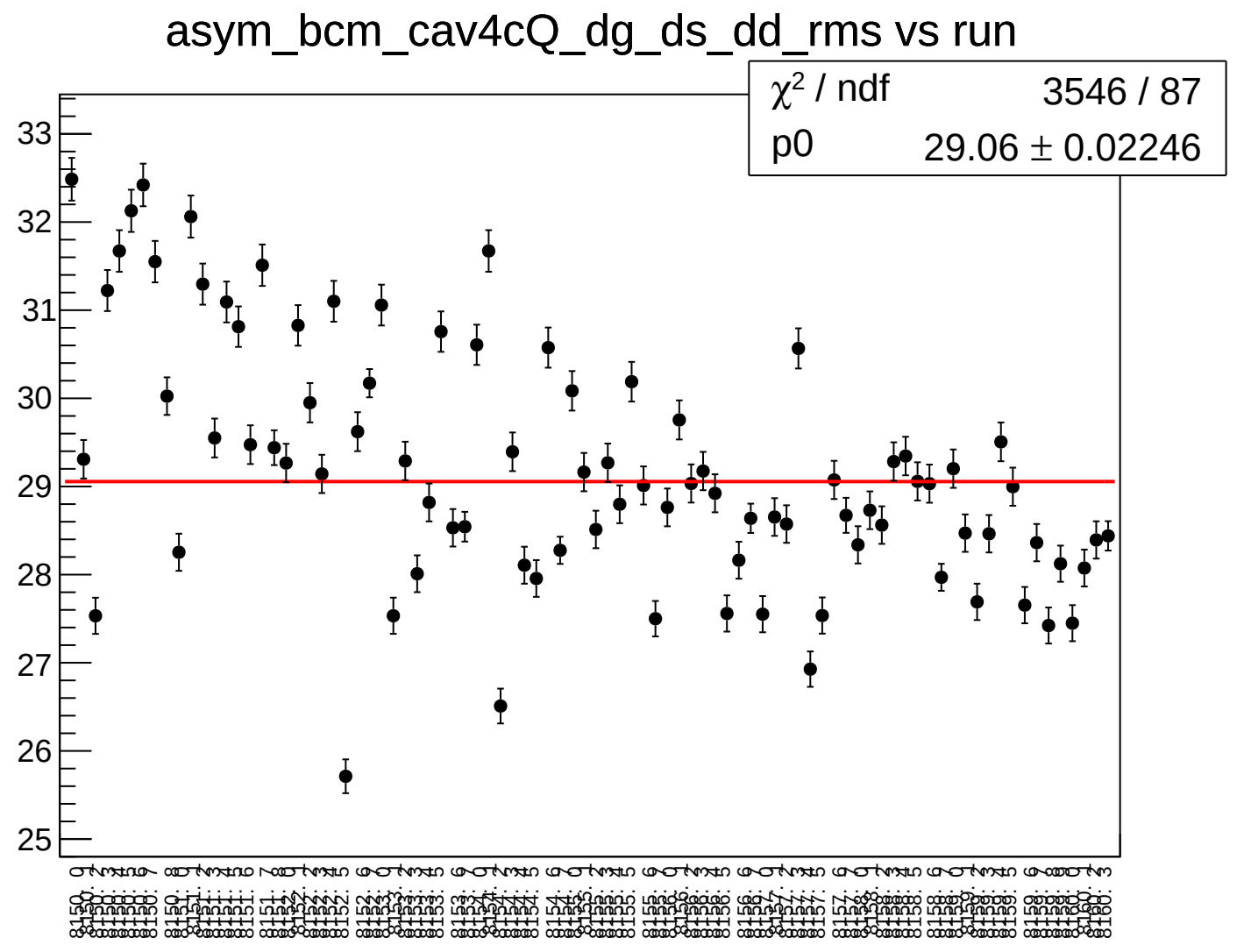

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 107 / 87
p0 34.27 ± 27.96
1000
500
0
−500
−1000
pull
Entries 88
Mean −257
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.02481
Std Dev 1.102
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

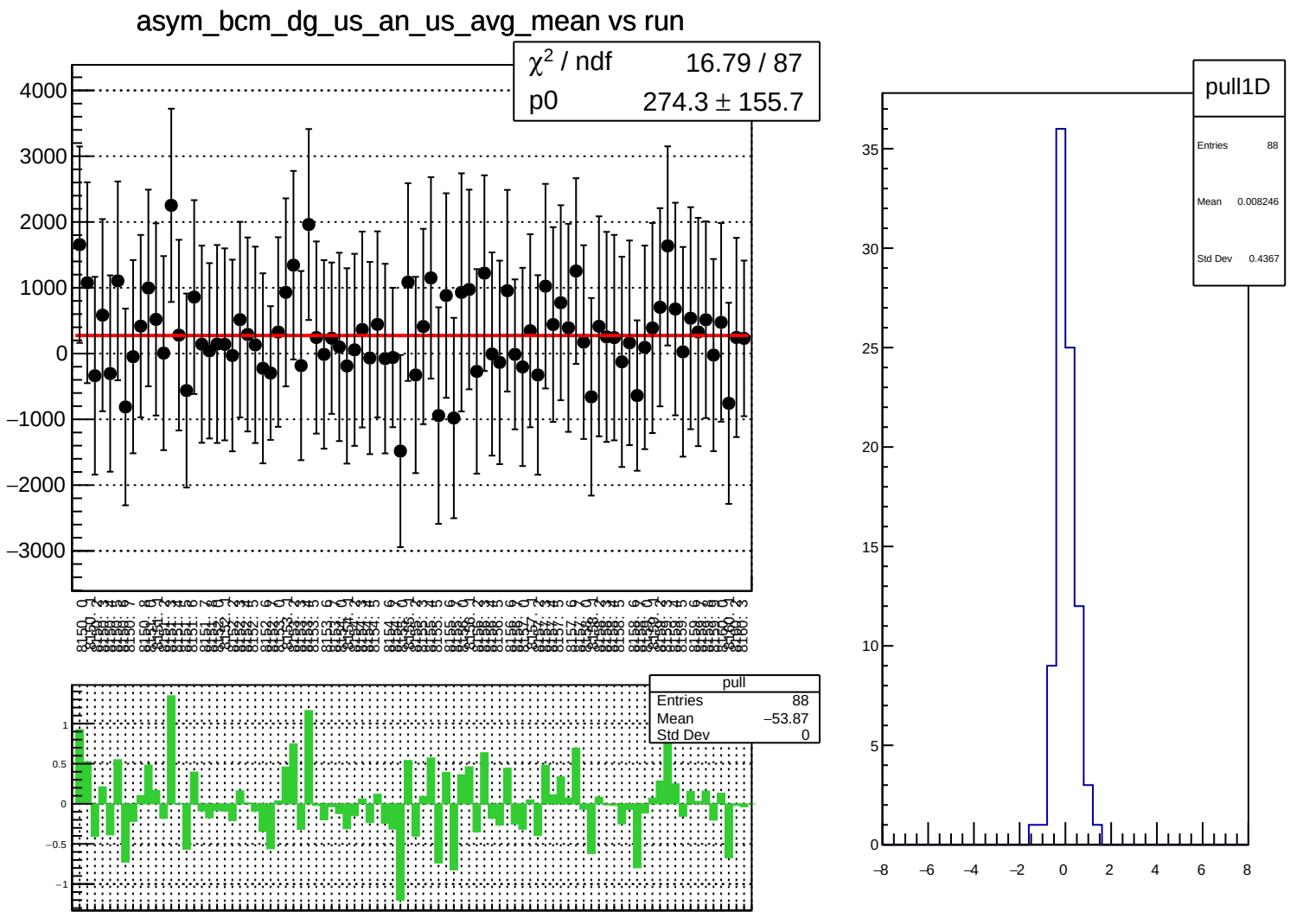

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 4009 / 87
p0 25.57 ± 0.01977
30
29
28
27
26
25
24
23

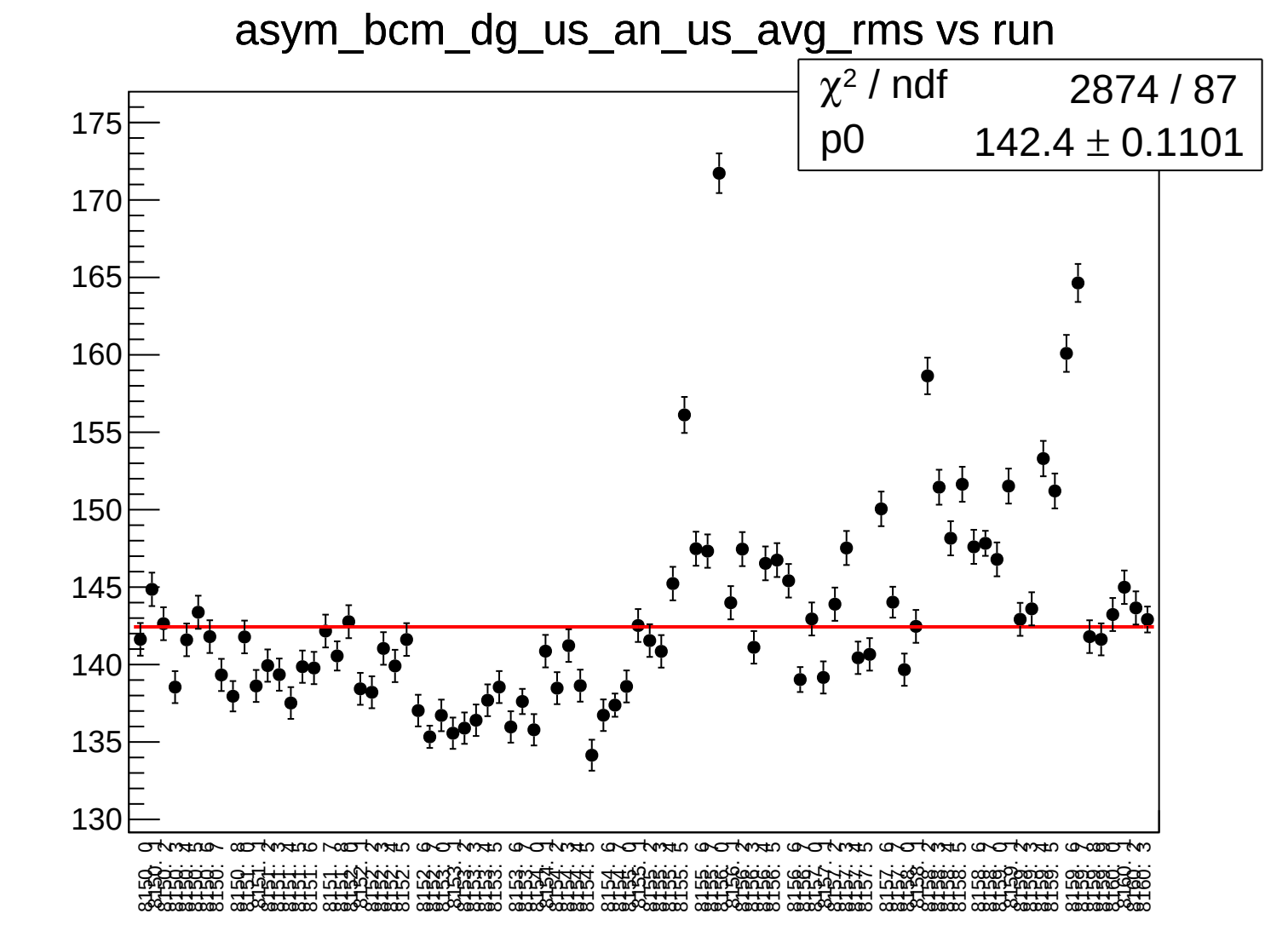

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 18.02 / 87
p0 281.4 ± 158.1
pull
Entries 88
Mean 86.31
Std Dev 0
pull1D
Entries 88
Mean 0.009718
Std Dev 0.4525

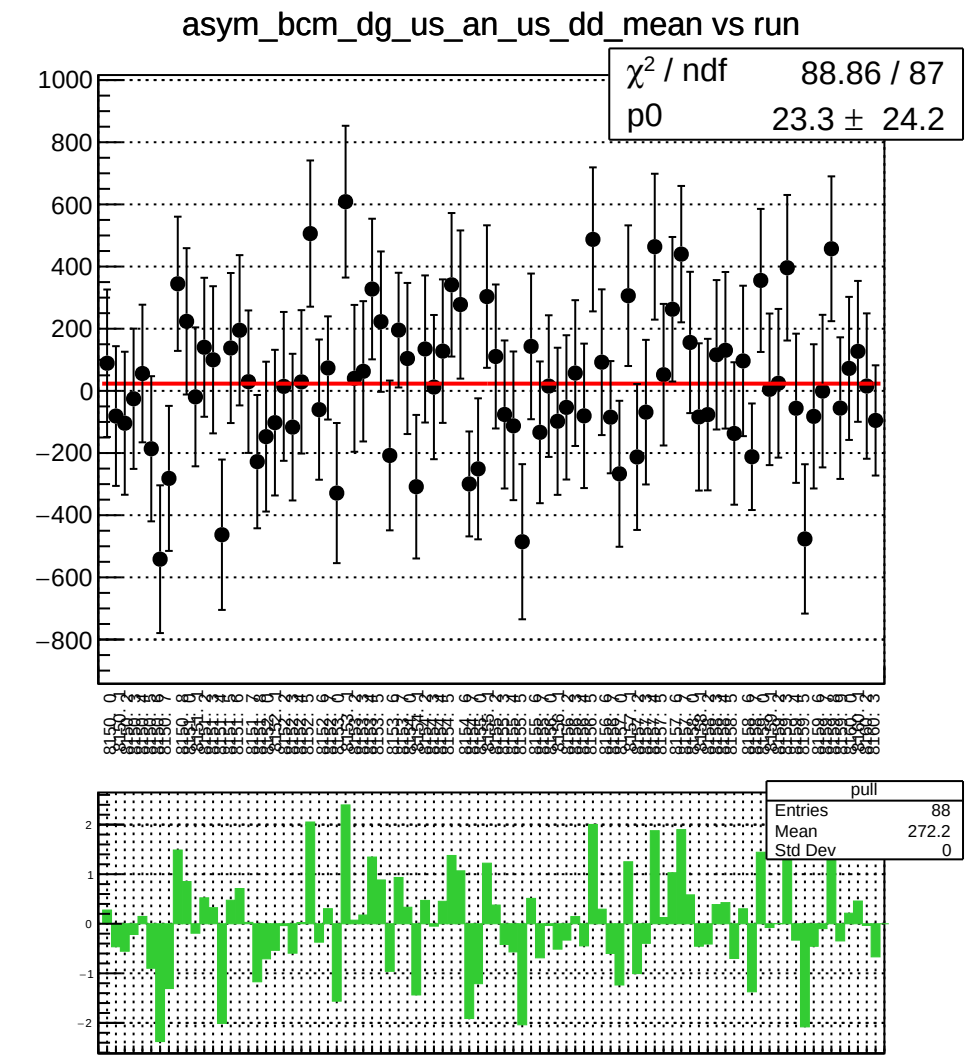

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 2686 / 87
p0 144.6 ± 0.1118
175
170
165
160
155
150
145
140
135
130

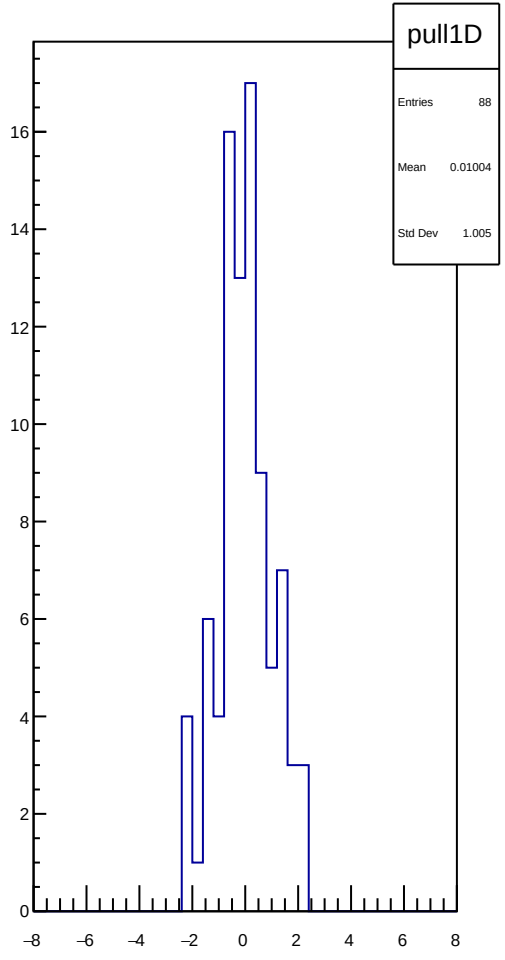

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 108.7 / 87
p0 28.11 ± 31.77
pull
Entries 88
Mean −111.7
Std Dev 0
pull1D
Entries 88
Mean −0.03041
Std Dev 1.111

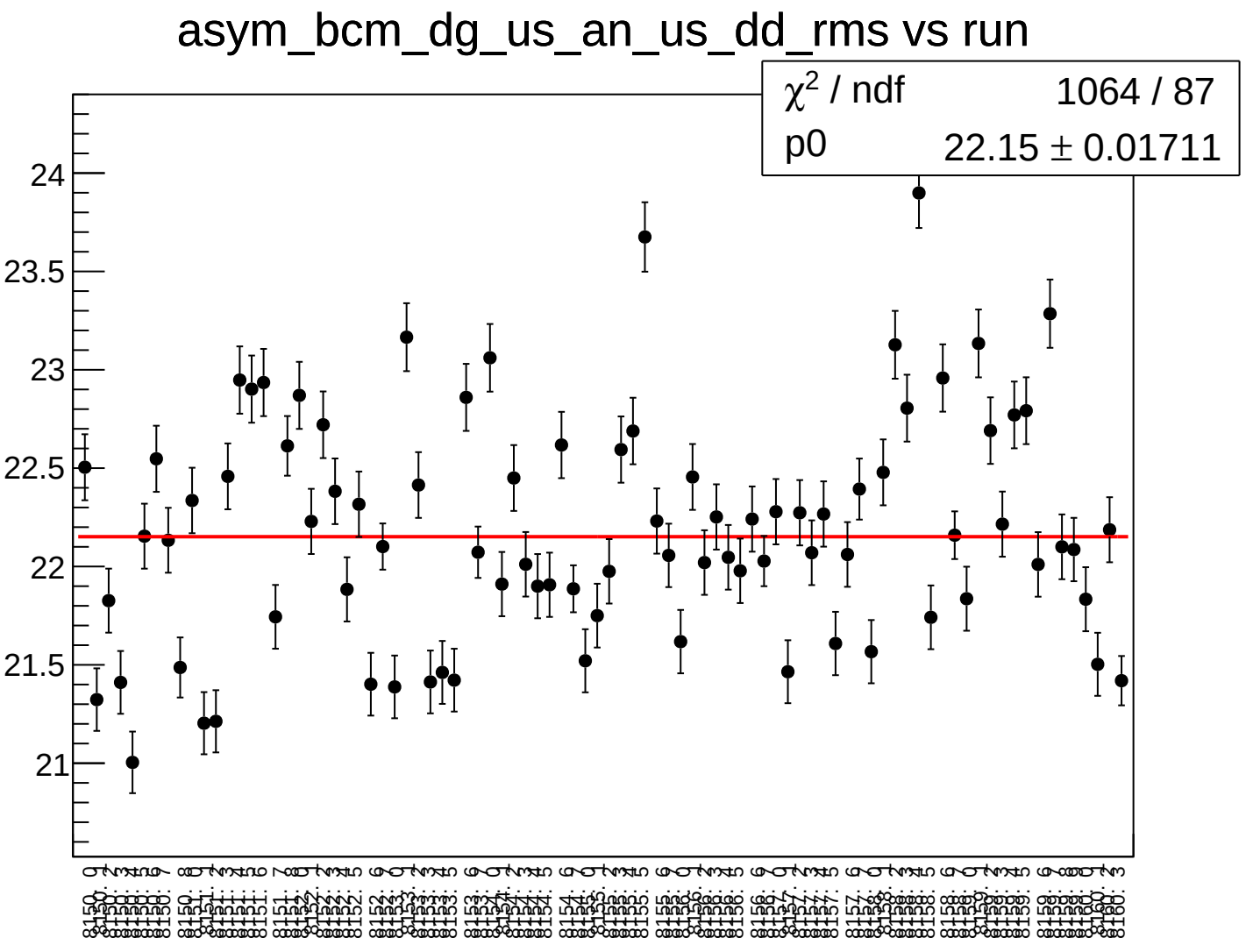

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 3546 / 87
p0 29.06 ± 0.02246
33
32
31
30
29
28
27
26
25

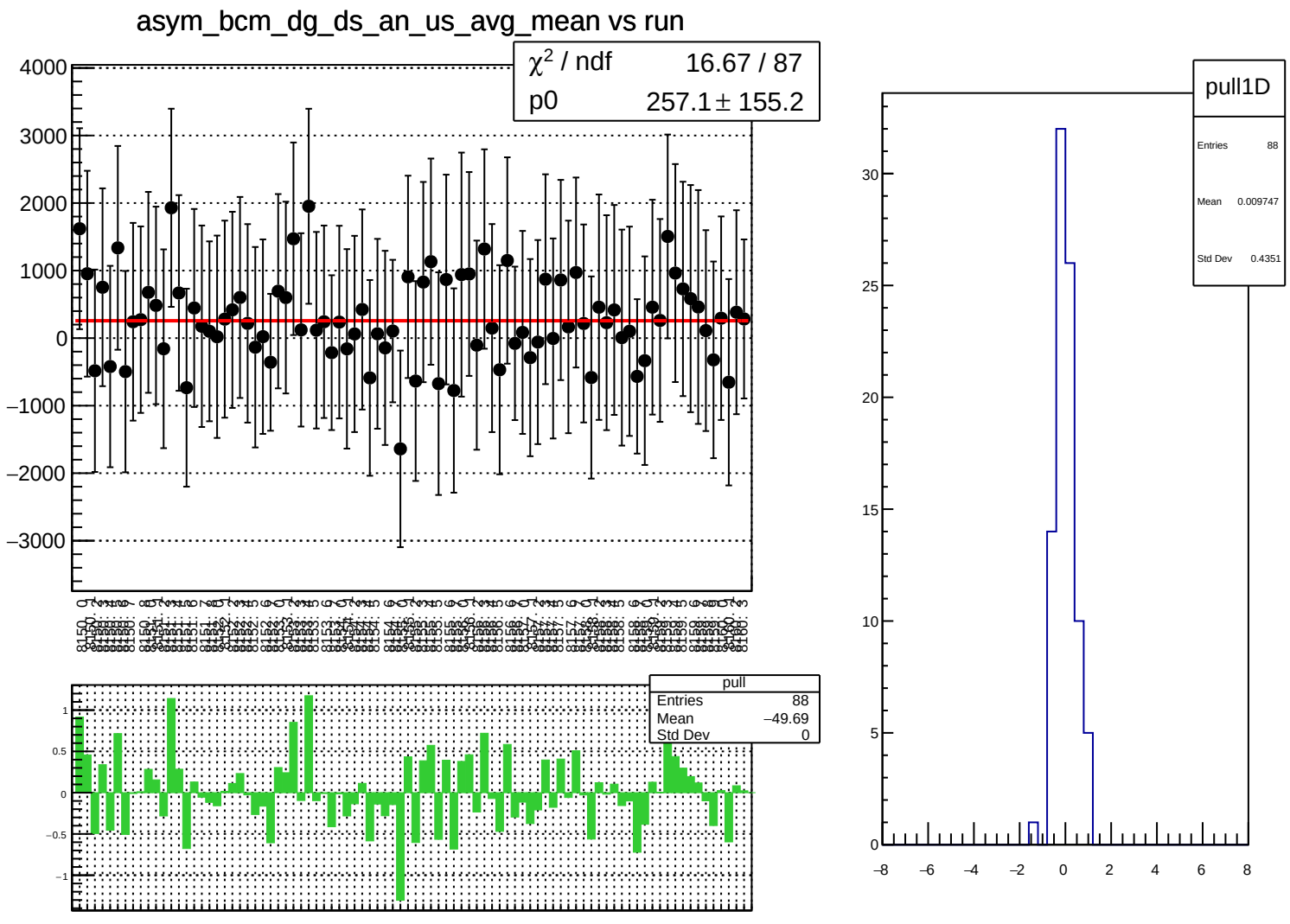

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 16.79 / 87
p0 274.3 ± 155.7
pull
Entries 88
Mean −53.87
Std Dev 0
pull1D
Entries 88
Mean 0.008246
Std Dev 0.4367

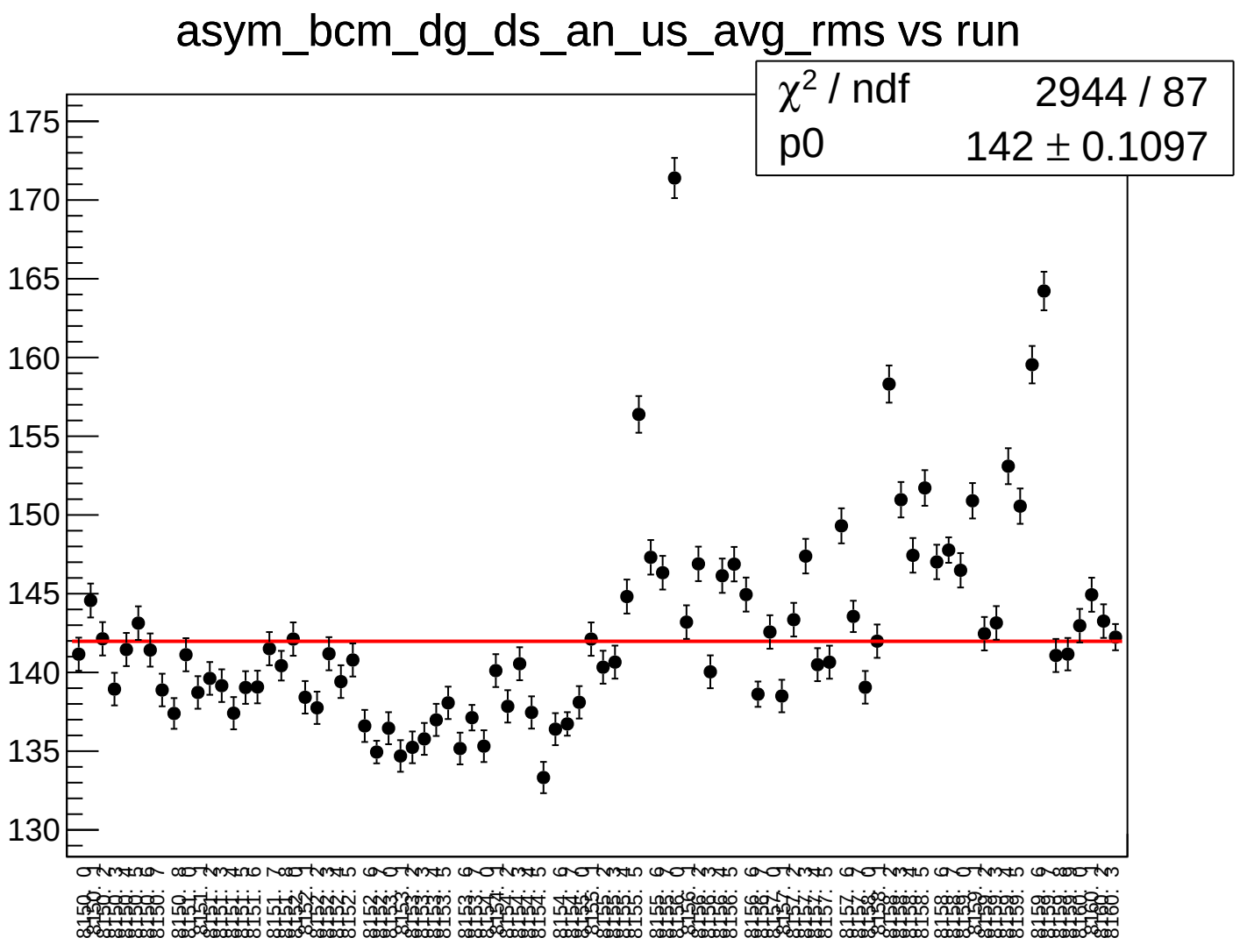

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 2874 / 87
p0 142.4 ± 0.1101
175
170
165
160
155
150
145
140
135
130

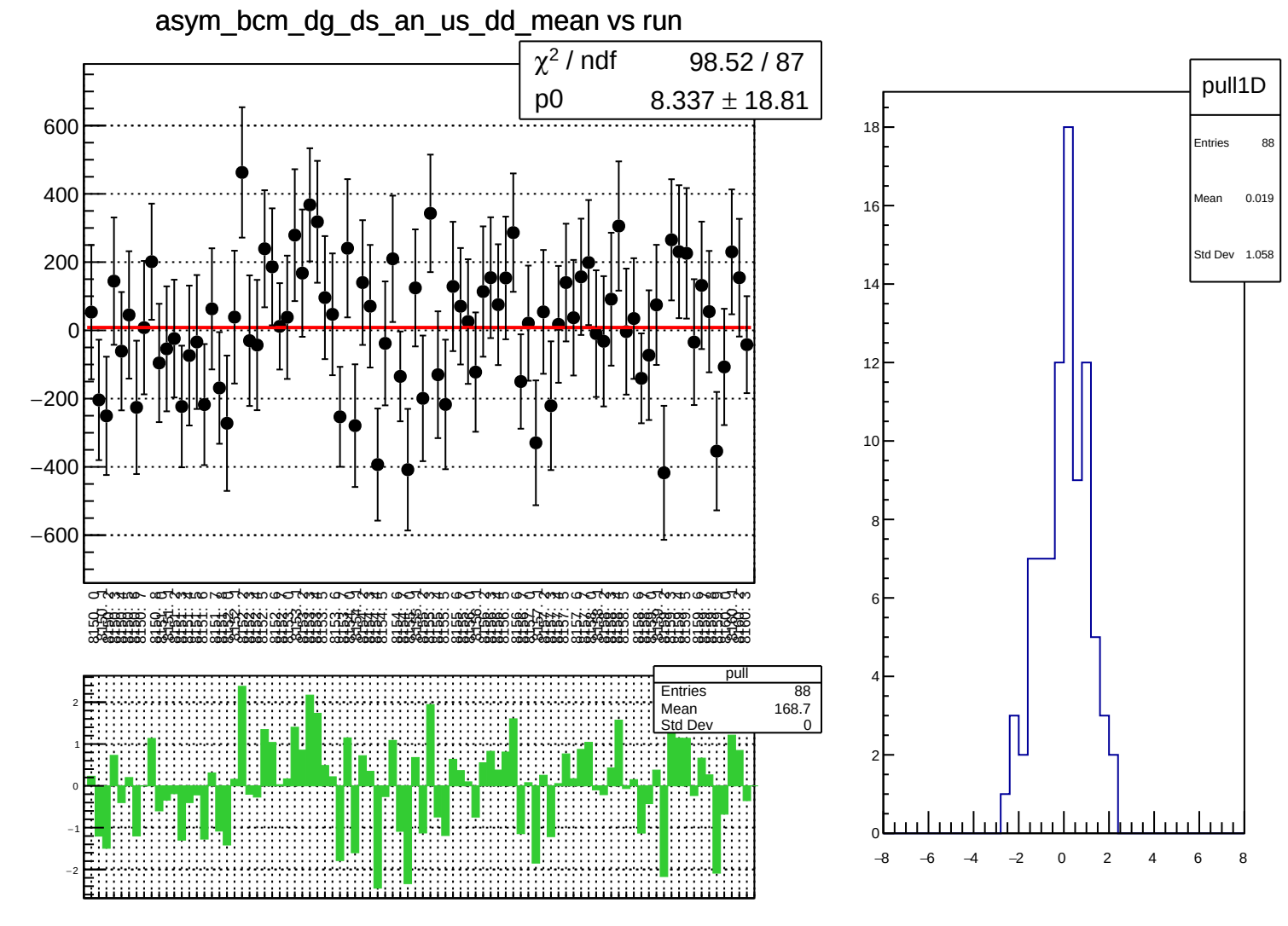

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 88.86 / 87
p0 23.3 ± 24.2
pull
Entries 88
Mean 272.2
Std Dev 0

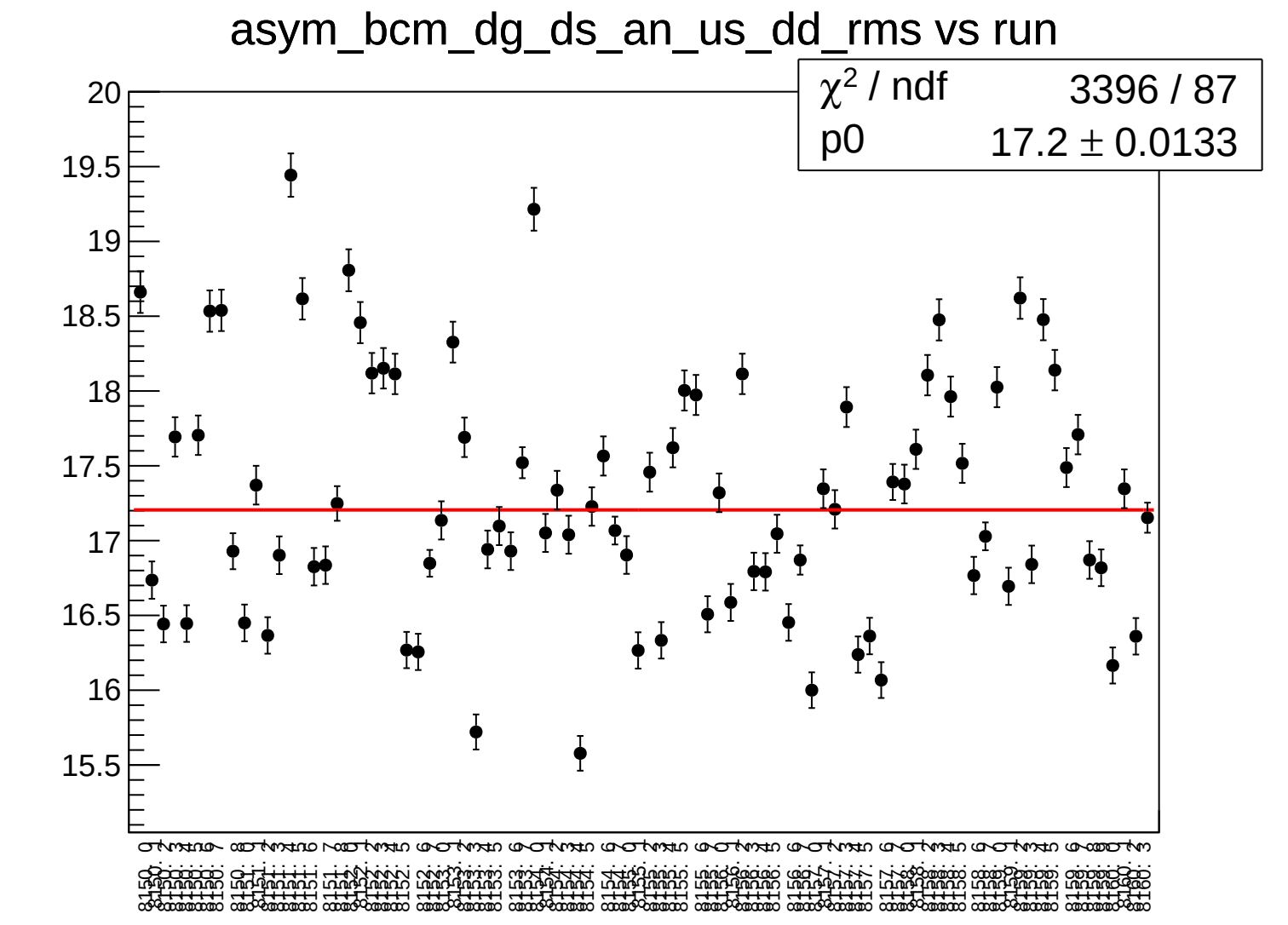

pull1D
Entries 88
Mean 0.01004
Std Dev 1.005

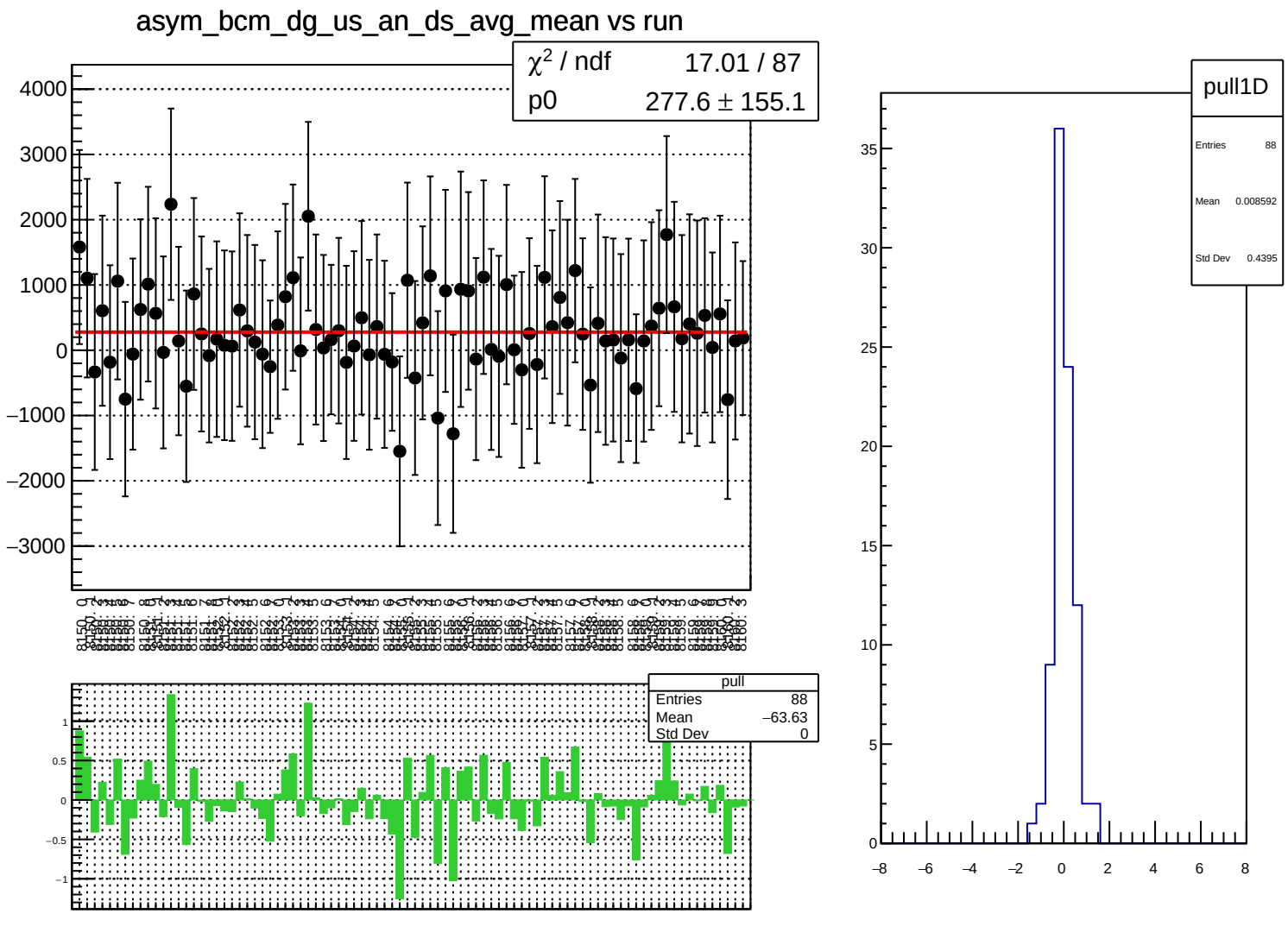

asym_bcm_dg_us_an_us_dd_rms vs run
χ^2 / ndf 1064 / 87
p0 22.15 ± 0.01711
24
23.5
23
22.5
22
21.5
21

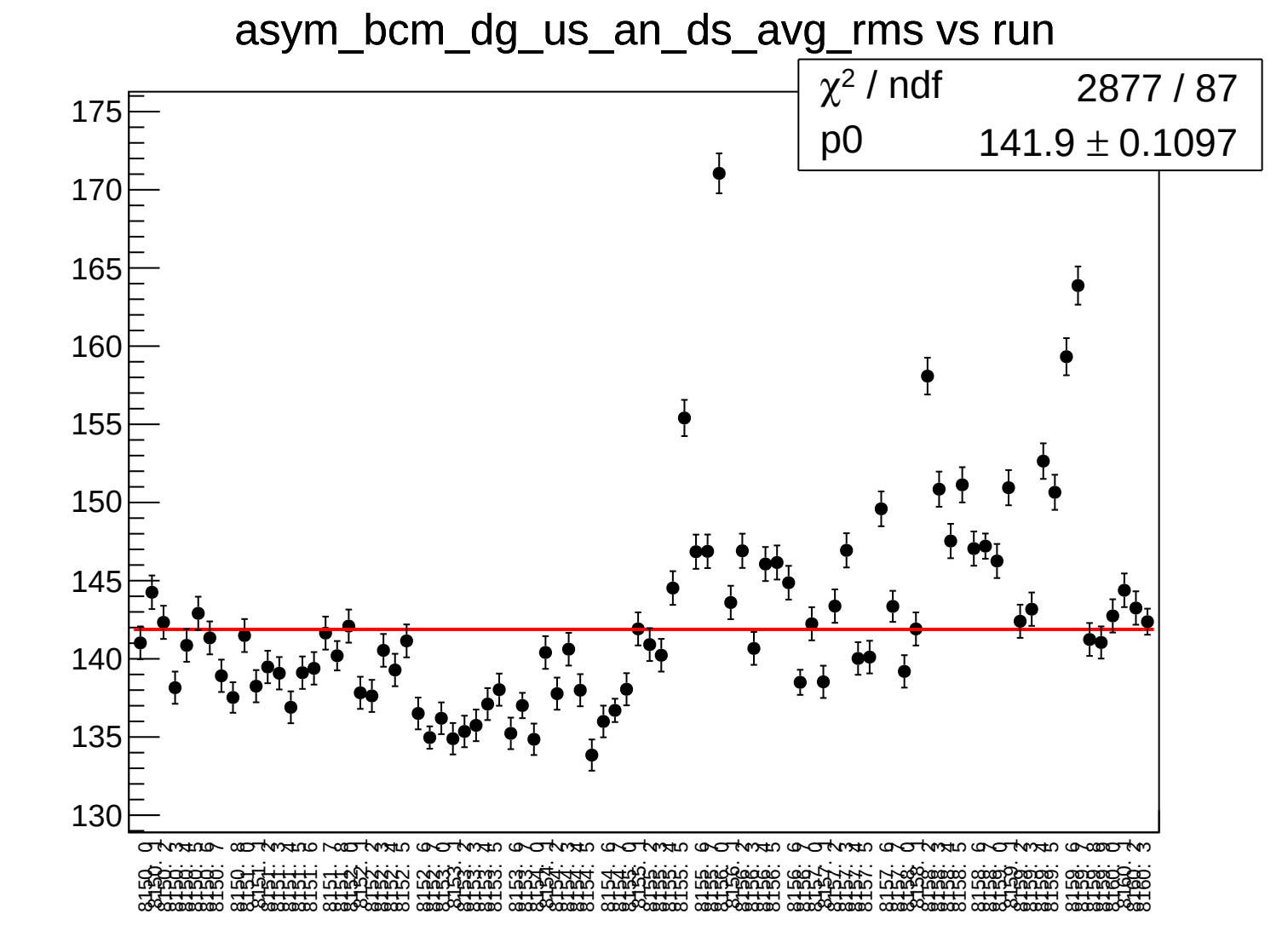

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 16.67 / 87
p0 257.1 ± 155.2
pull
Entries 88
Mean −49.69
Std Dev 0
pull1D
Entries 88
Mean 0.009747
Std Dev 0.4351

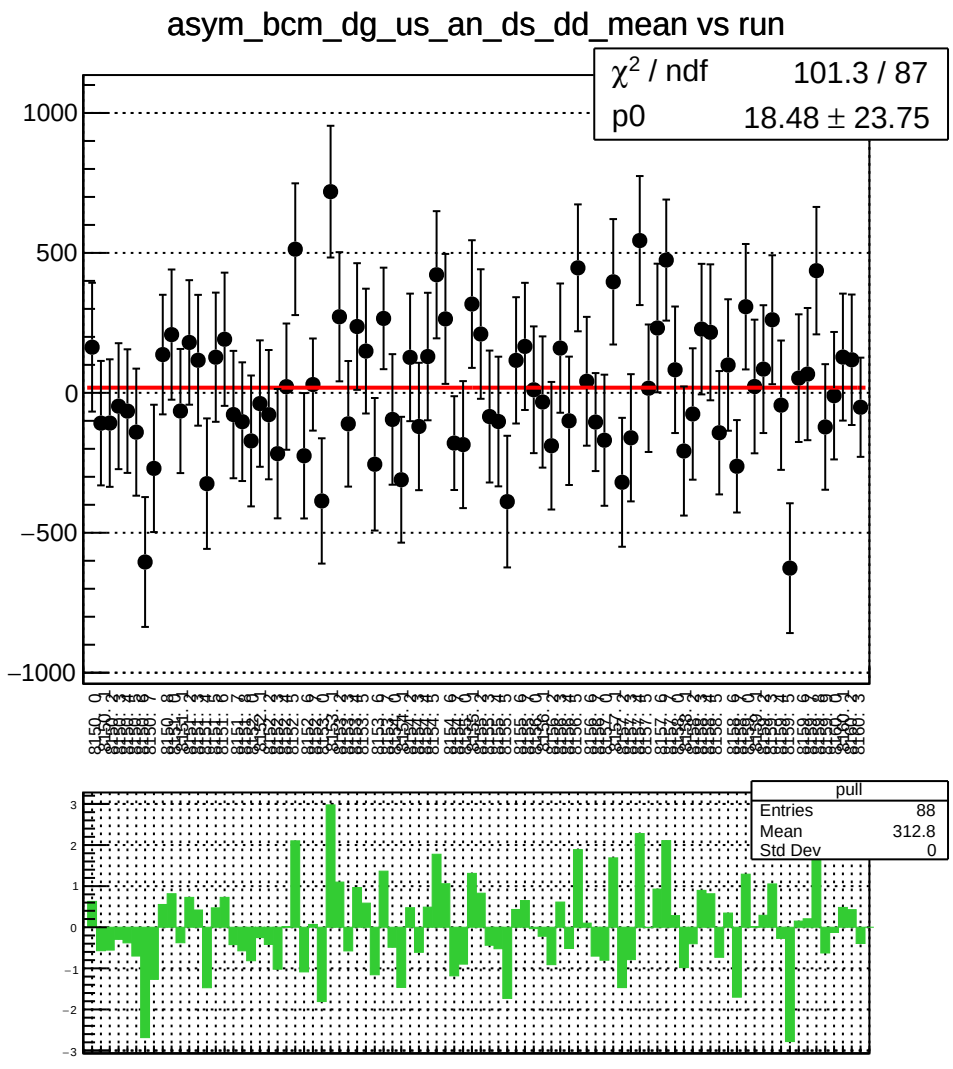

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 2944 / 87
p0 142 ± 0.1097
175
170
165
160
155
150
145
140
135
130

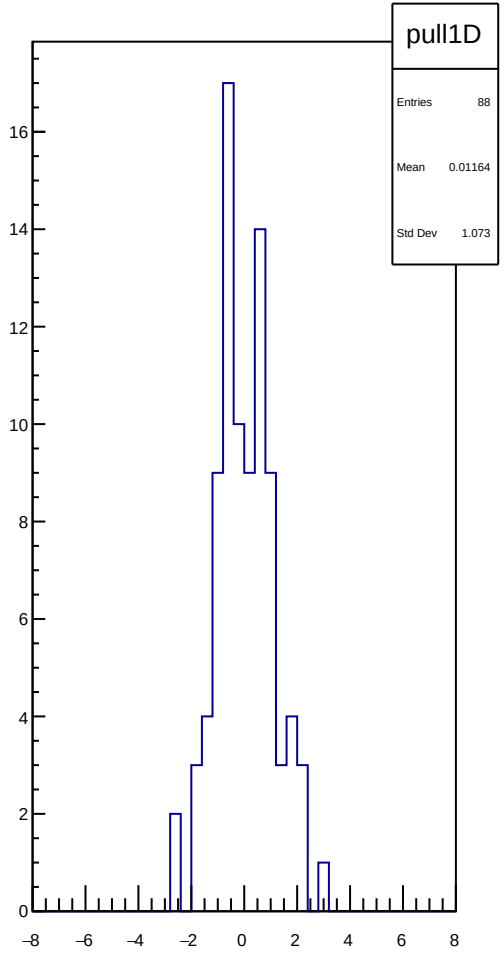

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 98.52 / 87
p0 8.337 ± 18.81
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean 168.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.019
Std Dev 1.058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 3396 / 87
p0 17.2 ± 0.0133
20
19.5
19
18.5
18
17.5
17
16.5
16
15.5


asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 17.01 / 87
p0 277.6 ± 155.1
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −63.63
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.008592
Std Dev 0.4395
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
χ^2 / ndf 2877 / 87
p0 141.9 ± 0.1097
175
170
165
160
155
150
145
140
135
130


asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 101.3 / 87
p0 18.48 ± 23.75
1000
500
0
−500
−1000
pull
Entries 88
Mean 312.8
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean 0.01164
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
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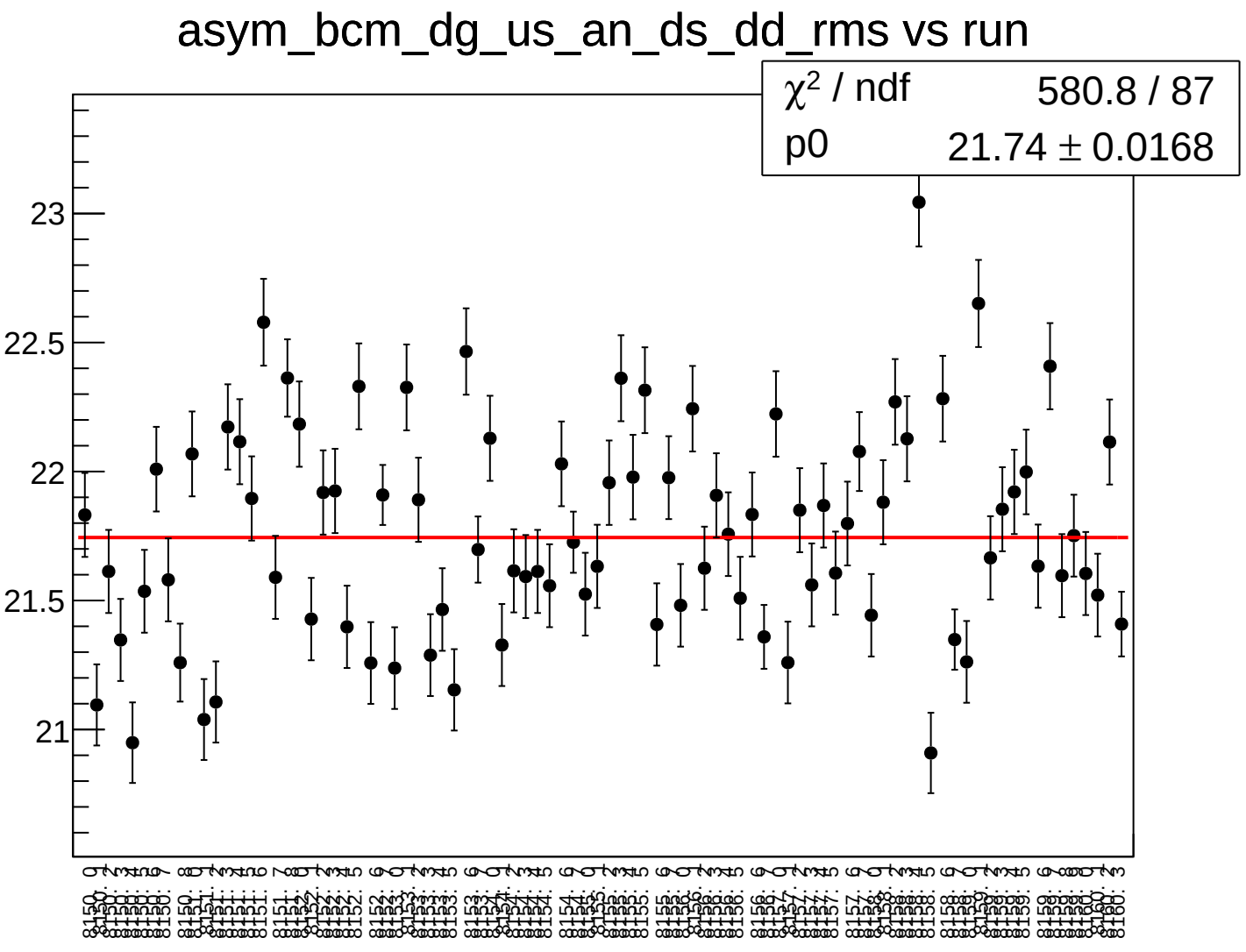
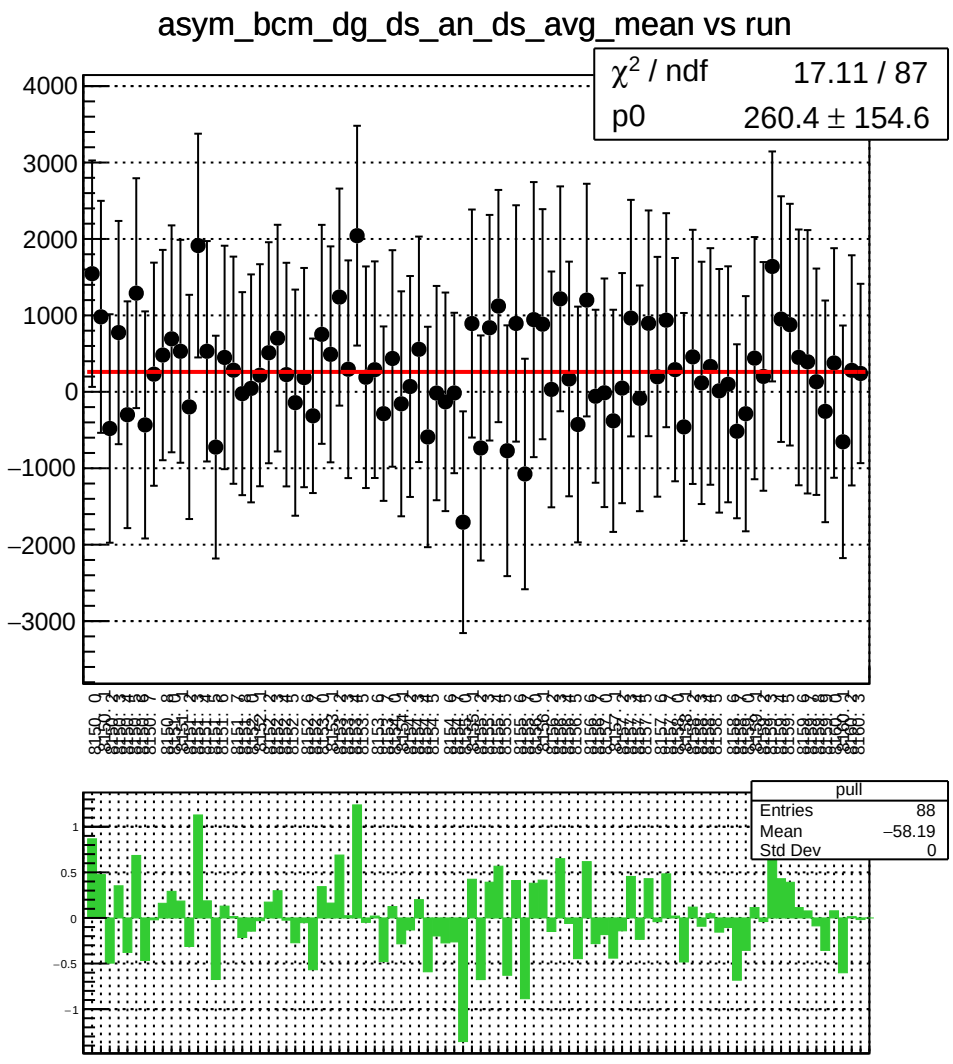
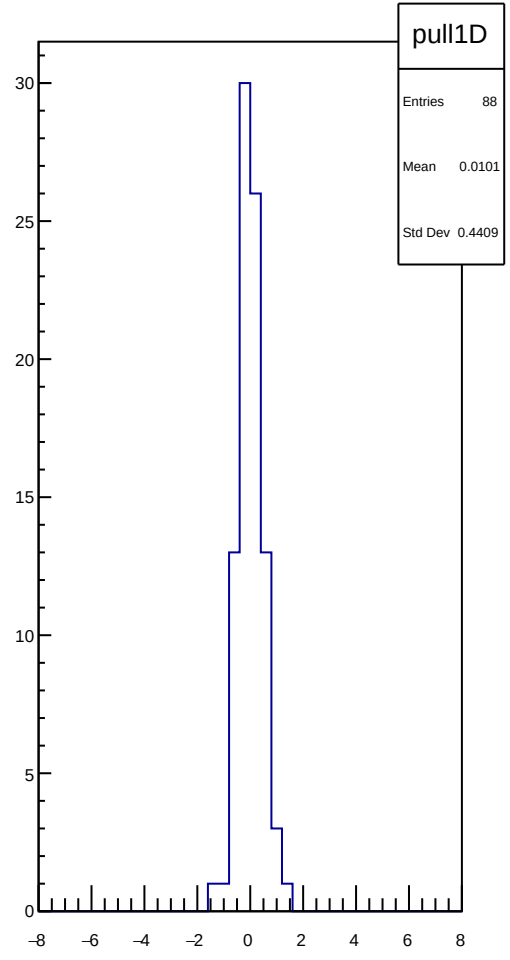
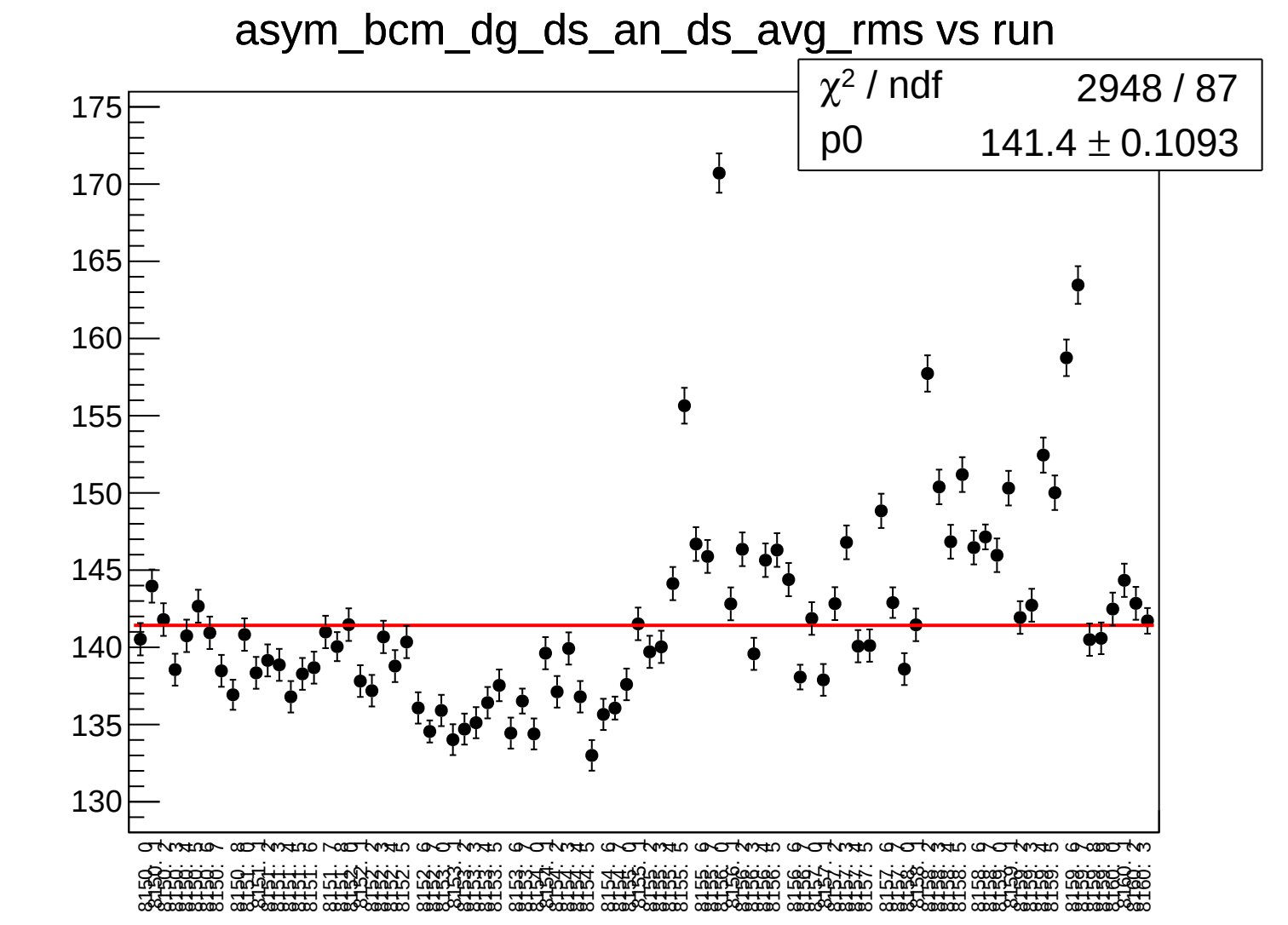
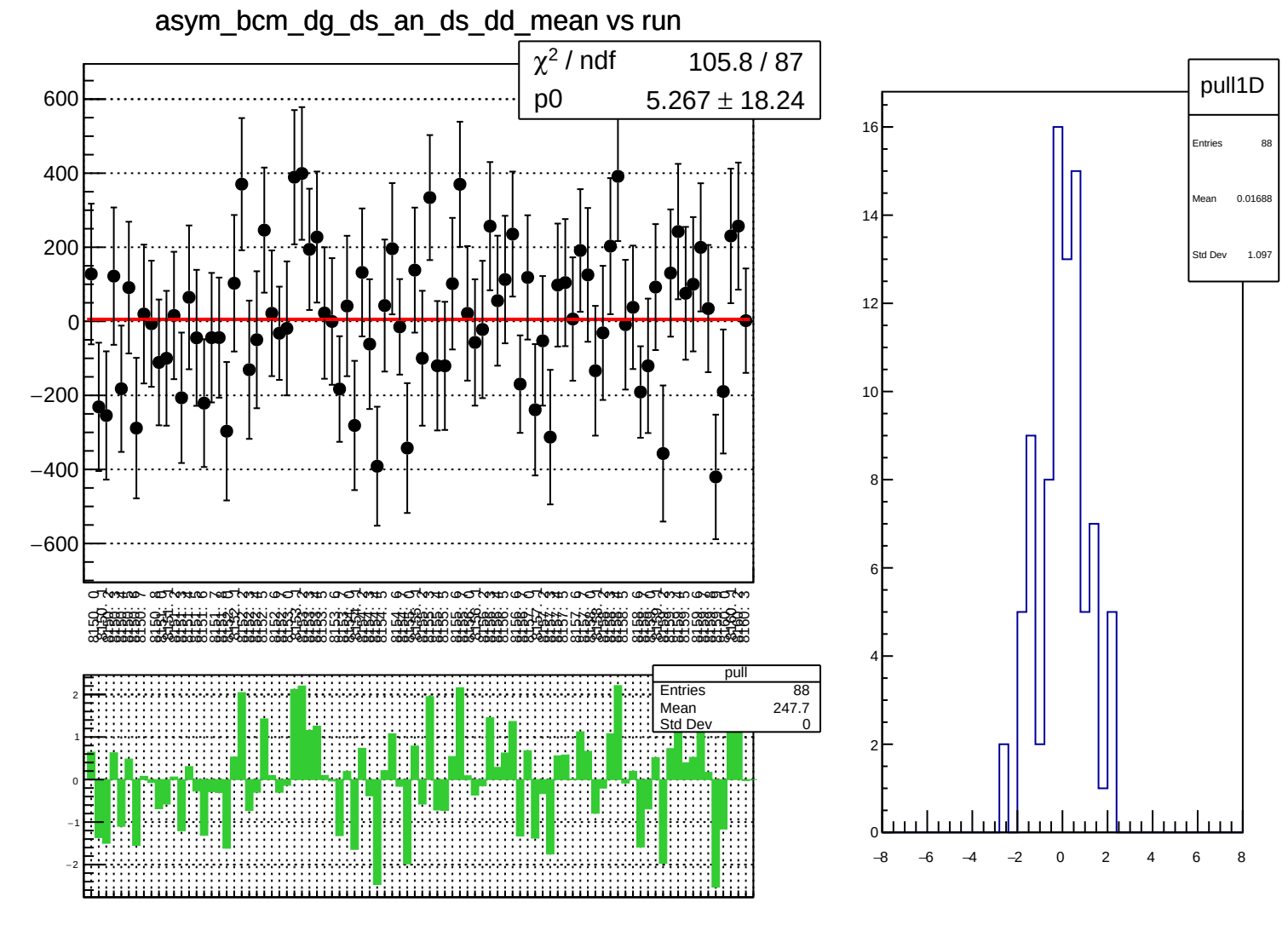
0
2
4
6
8

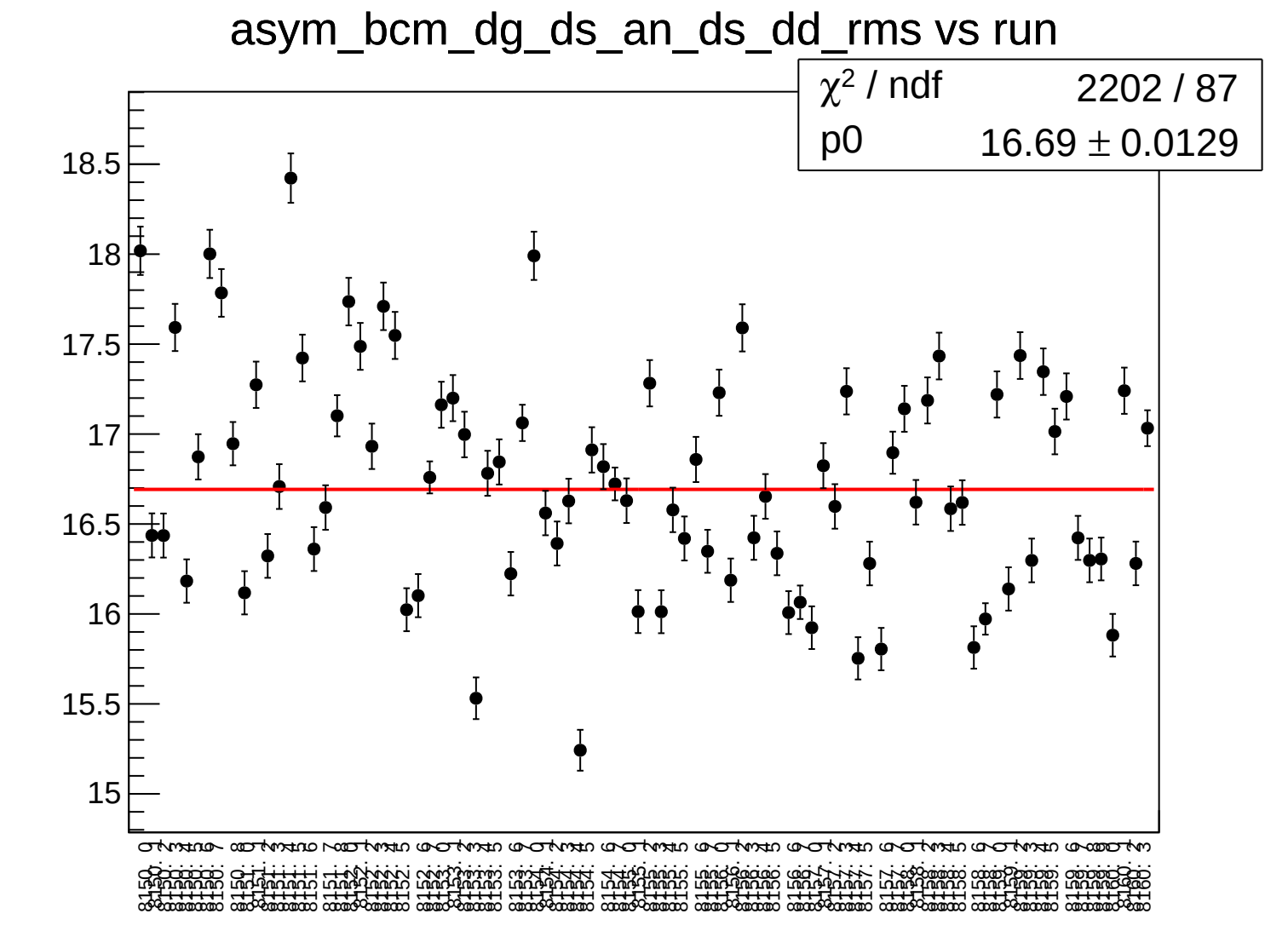

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 580.8 / 87
p0 21.74 ± 0.0168
23
22.5
22
21.5
21

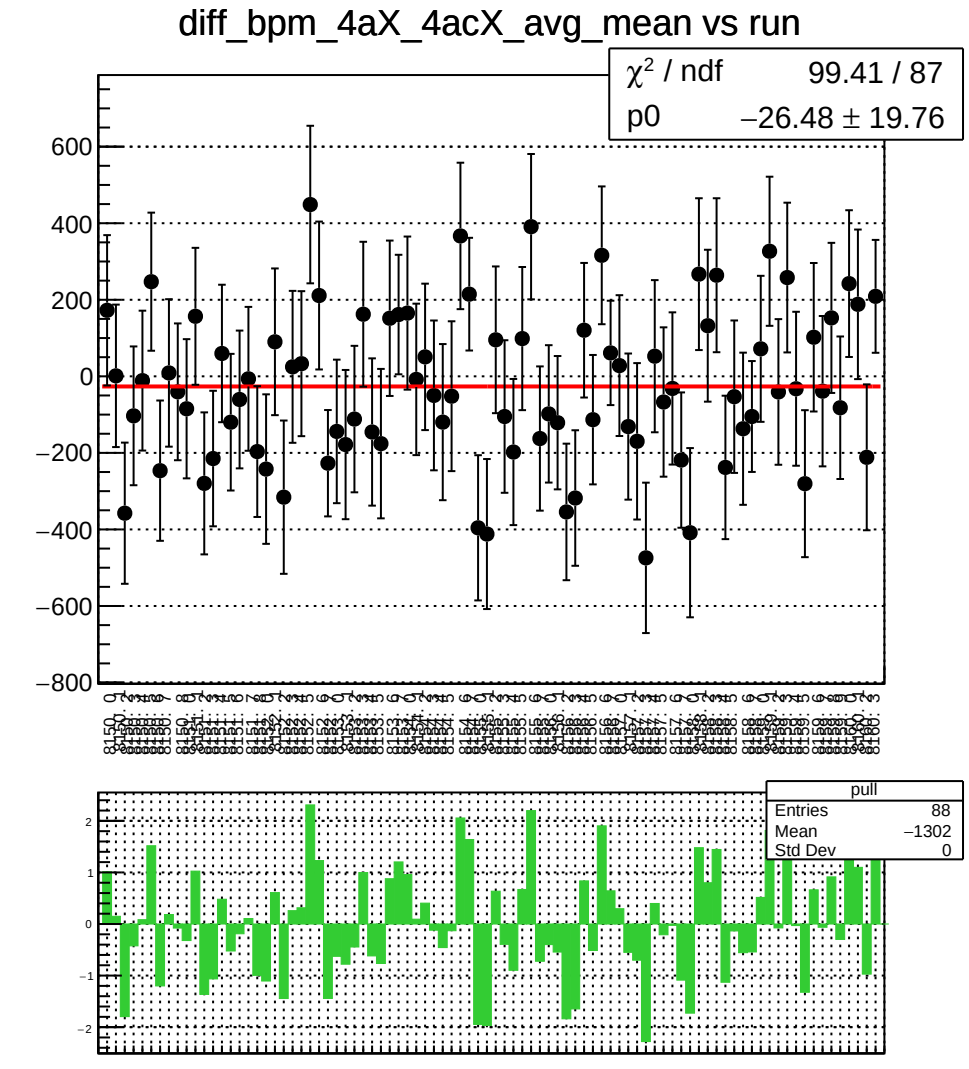

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 17.11 / 87
p0 260.4 ± 154.6
pull
Entries 88
Mean −58.19
Std Dev 0

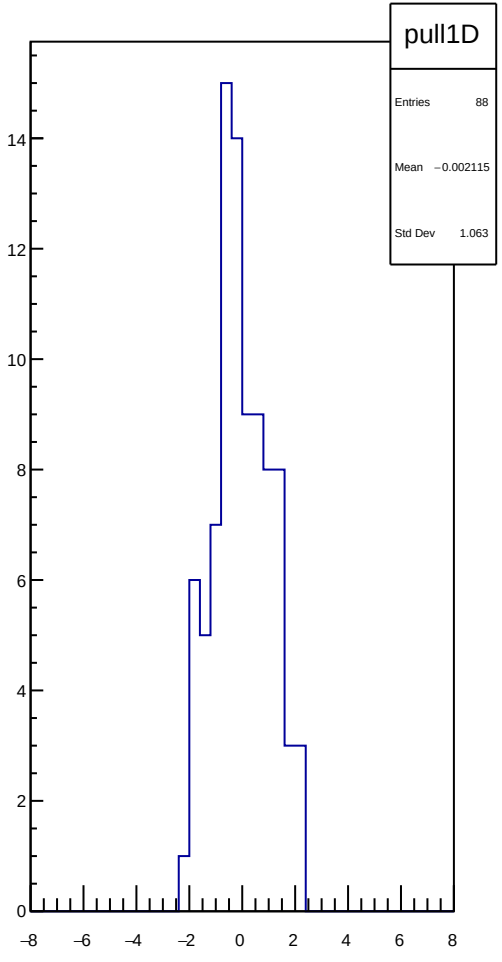

pull1D
Entries 88
Mean 0.0101
Std Dev 0.4409

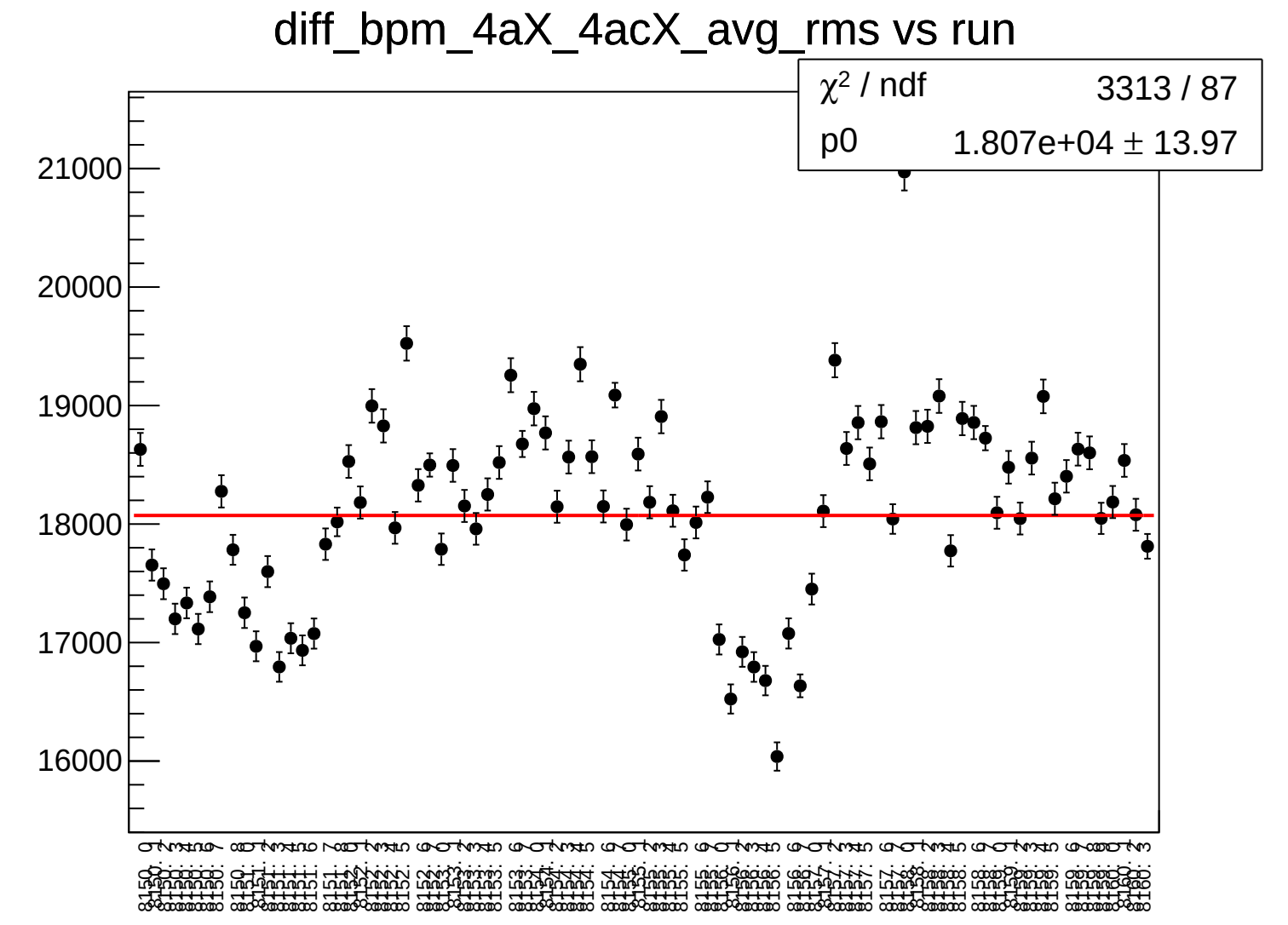

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 2948 / 87
p0 141.4 ± 0.1093
175
170
165
160
155
150
145
140
135
130

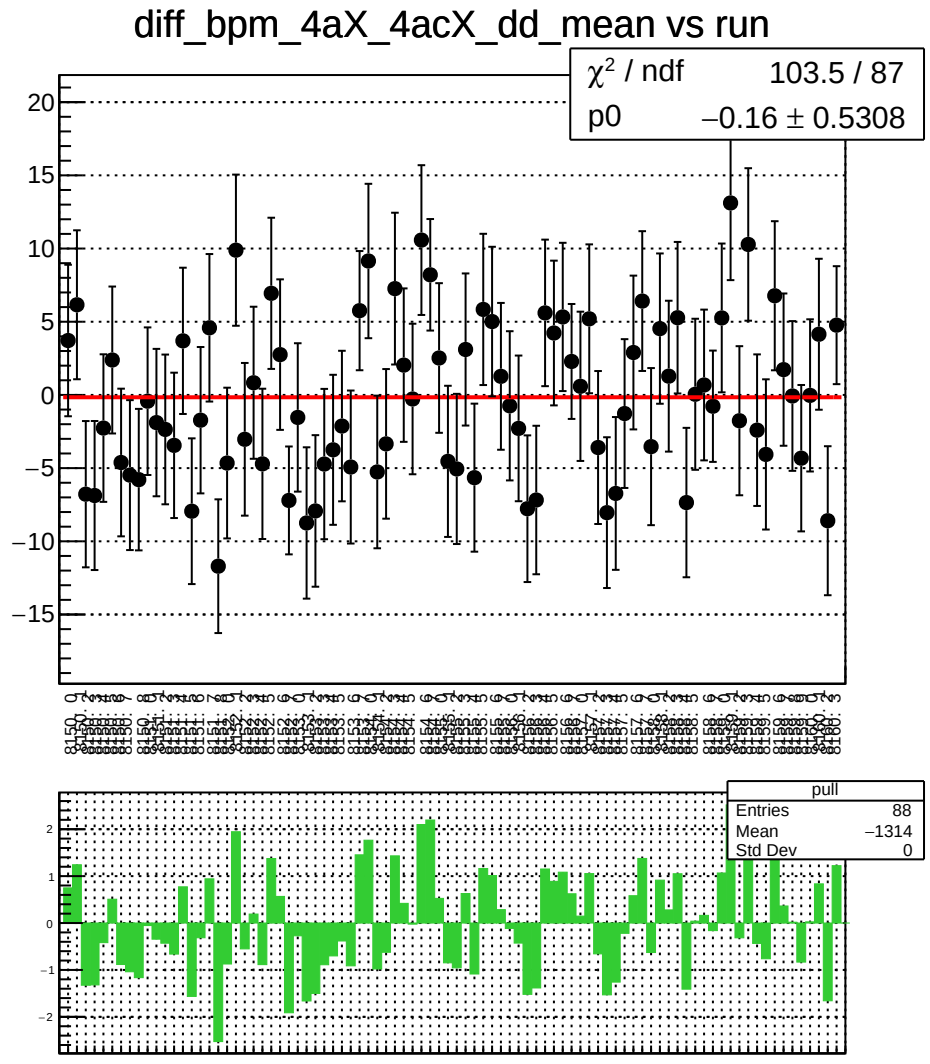

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 105.8 / 87
p0 5.267 ± 18.24
pull
Entries 88
Mean 247.7
Std Dev 0
pull1D
Entries 88
Mean 0.01688
Std Dev 1.097

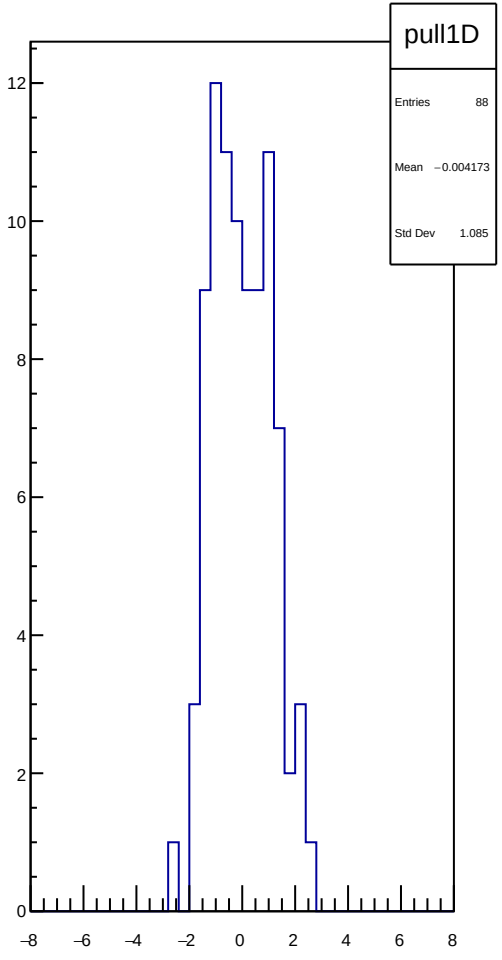

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 2202 / 87
p0 16.69 ± 0.0129
18.5
18
17.5
17
16.5
16
15.5
15

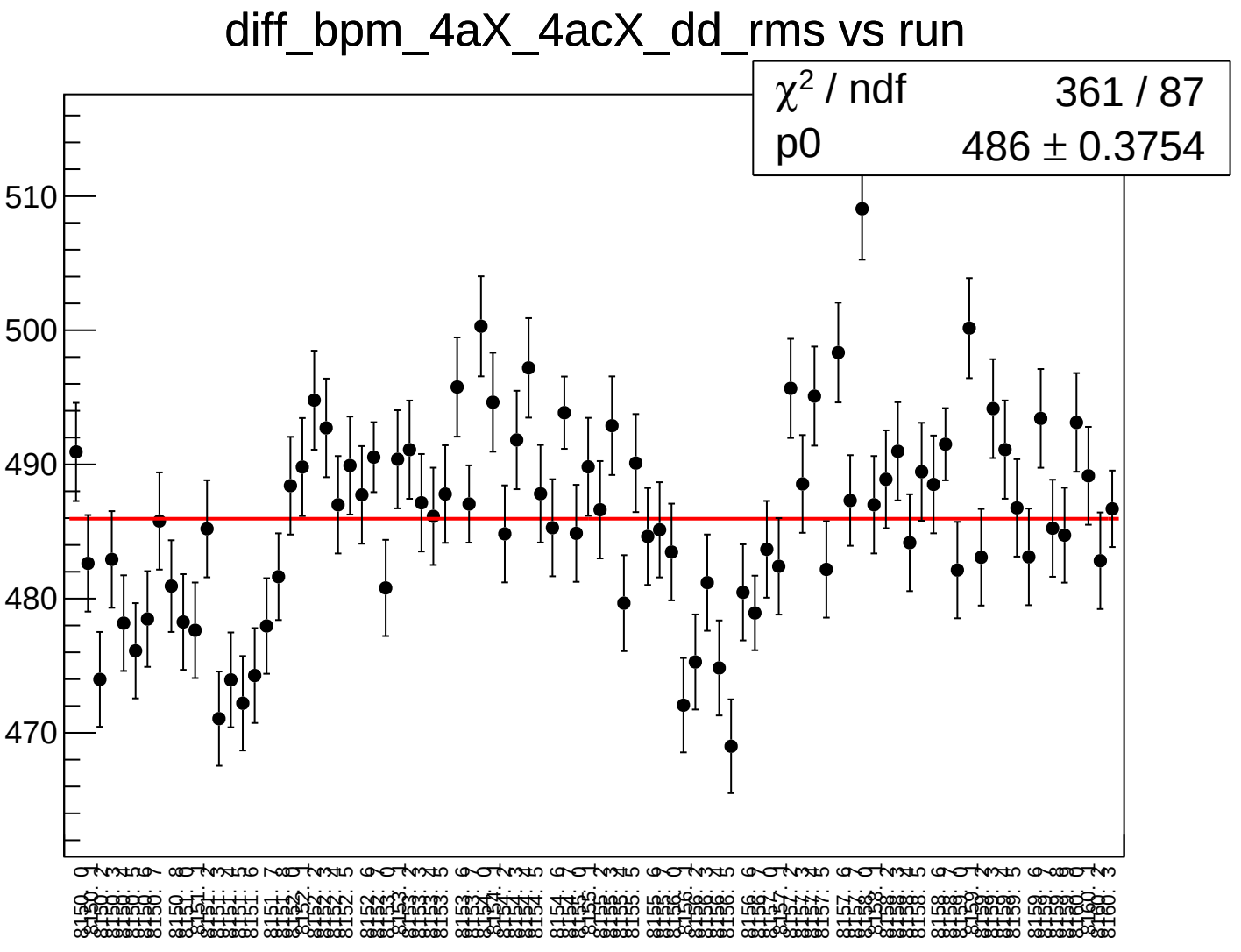

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 99.41 / 87
p0 −26.48 ± 19.76
pull
Entries 88
Mean −1302
Std Dev 0

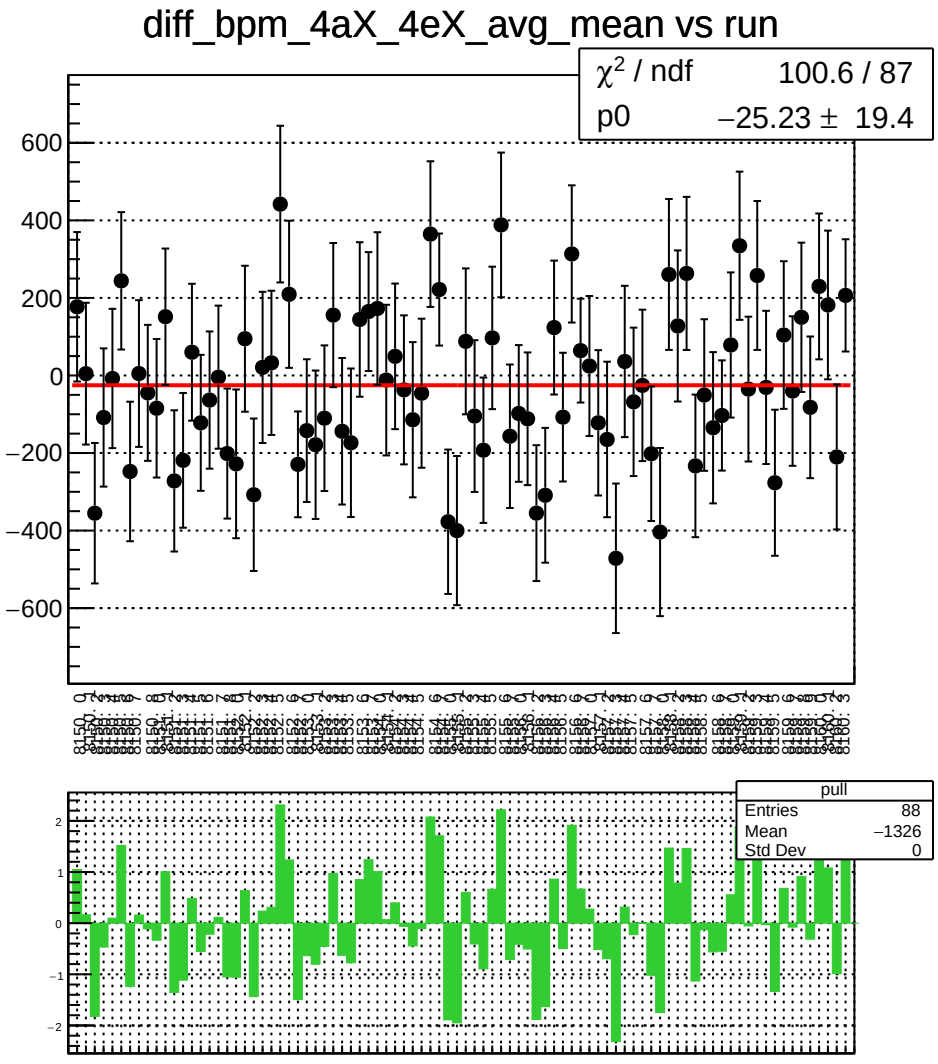

pull1D
Entries 88
Mean −0.002115
Std Dev 1.063

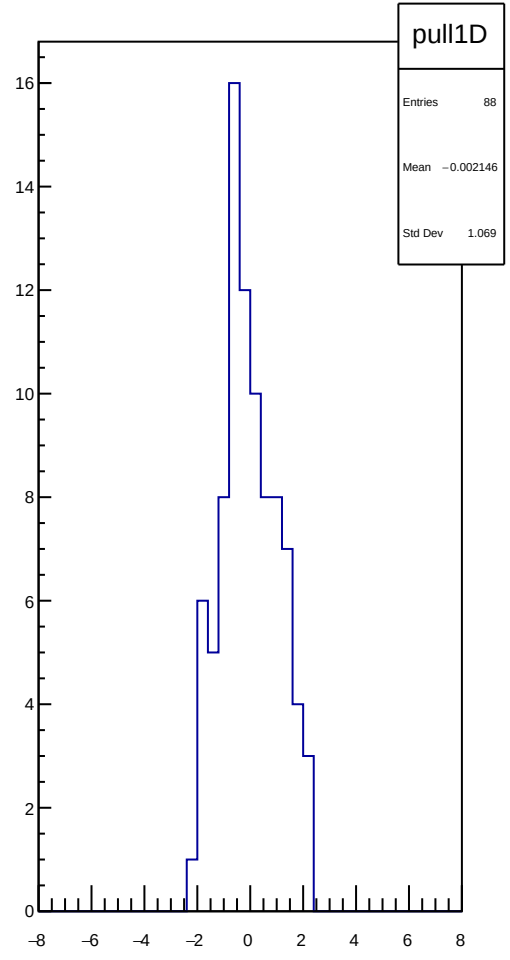

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 3313 / 87
p0 1.807e+04 ± 13.97
21000
20000
19000
18000
17000
16000

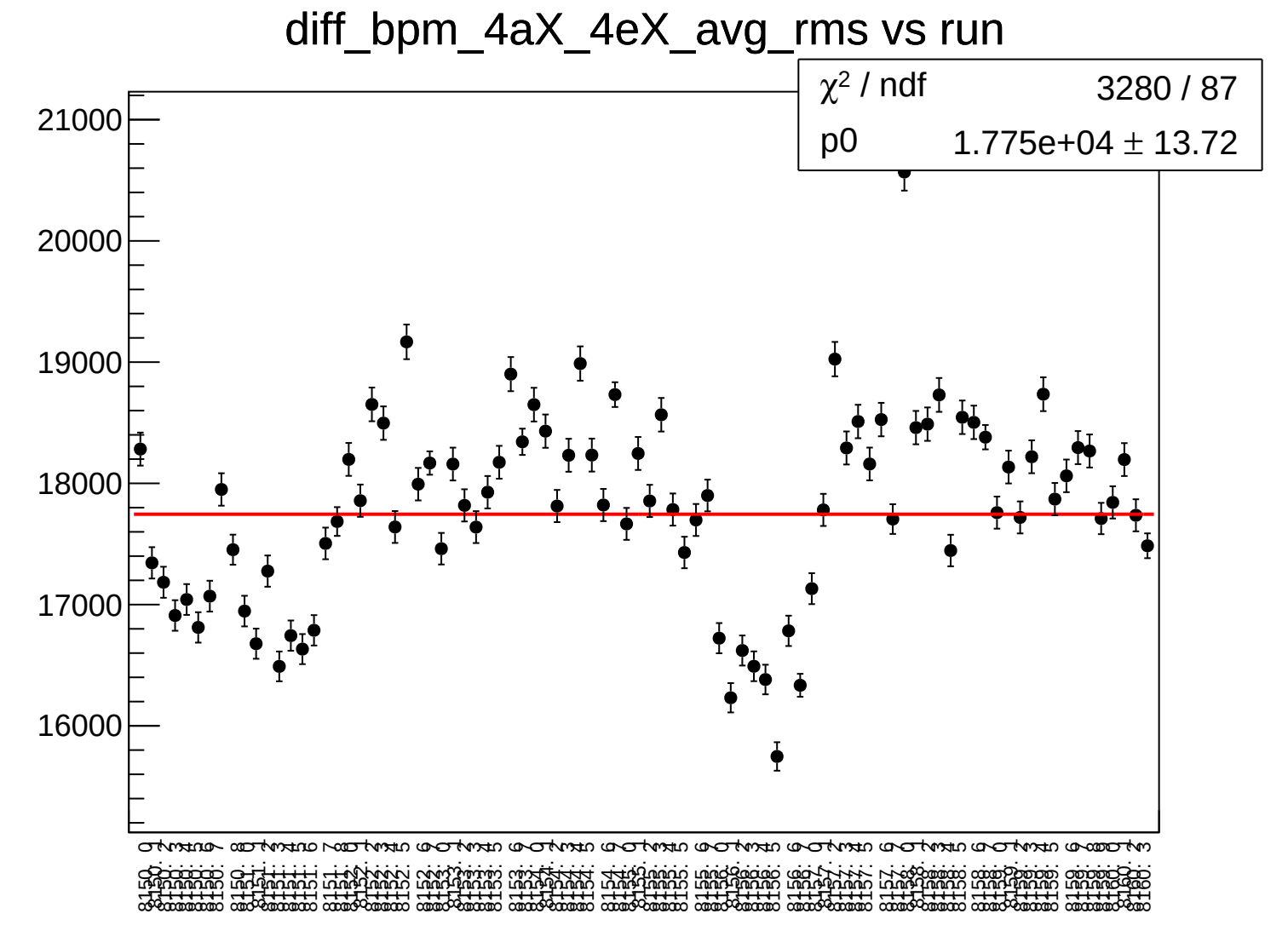

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 103.5 / 87
p0 −0.16 ± 0.5308
pull
Entries 88
Mean −1314
Std Dev 0

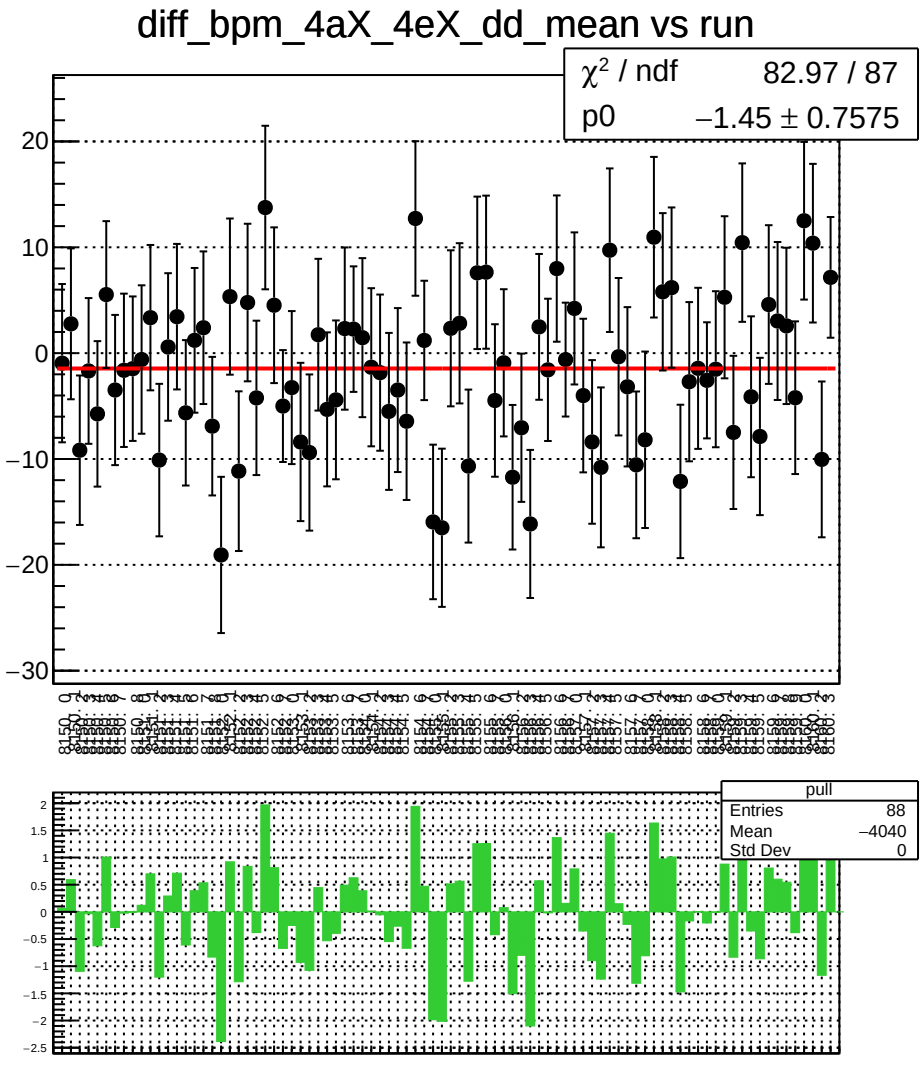

pull1D
Entries 88
Mean −0.004173
Std Dev 1.085

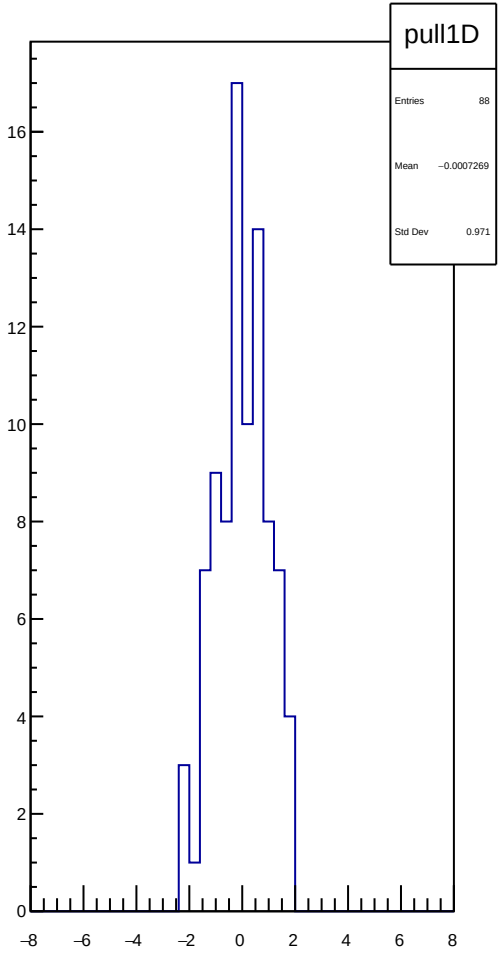

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 361 / 87
p0 486 ± 0.3754
510
500
490
480
470

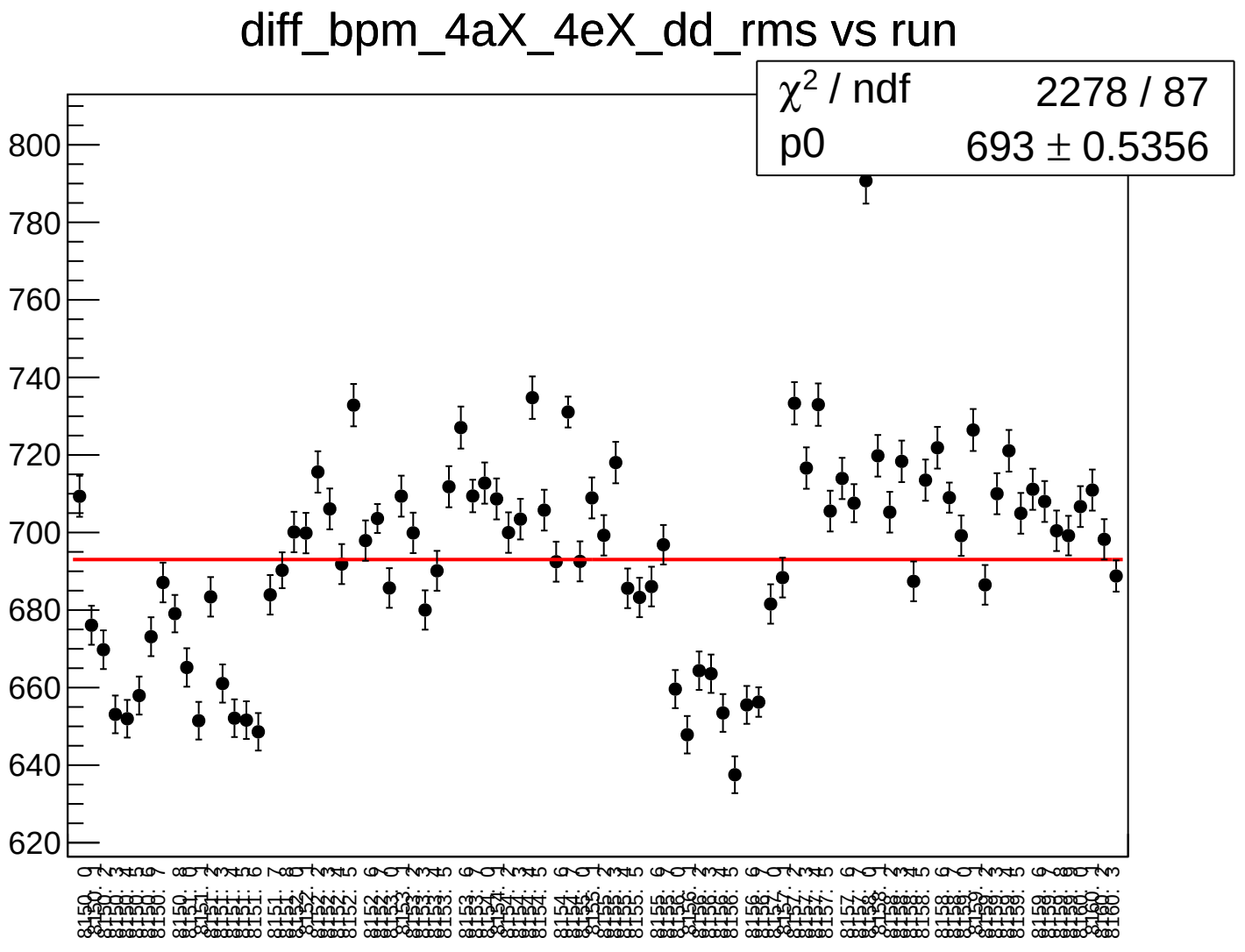

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 100.6 / 87
p0 −25.23 ± 19.4
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean −1326
Std Dev 0
2
1
0
−1
−2

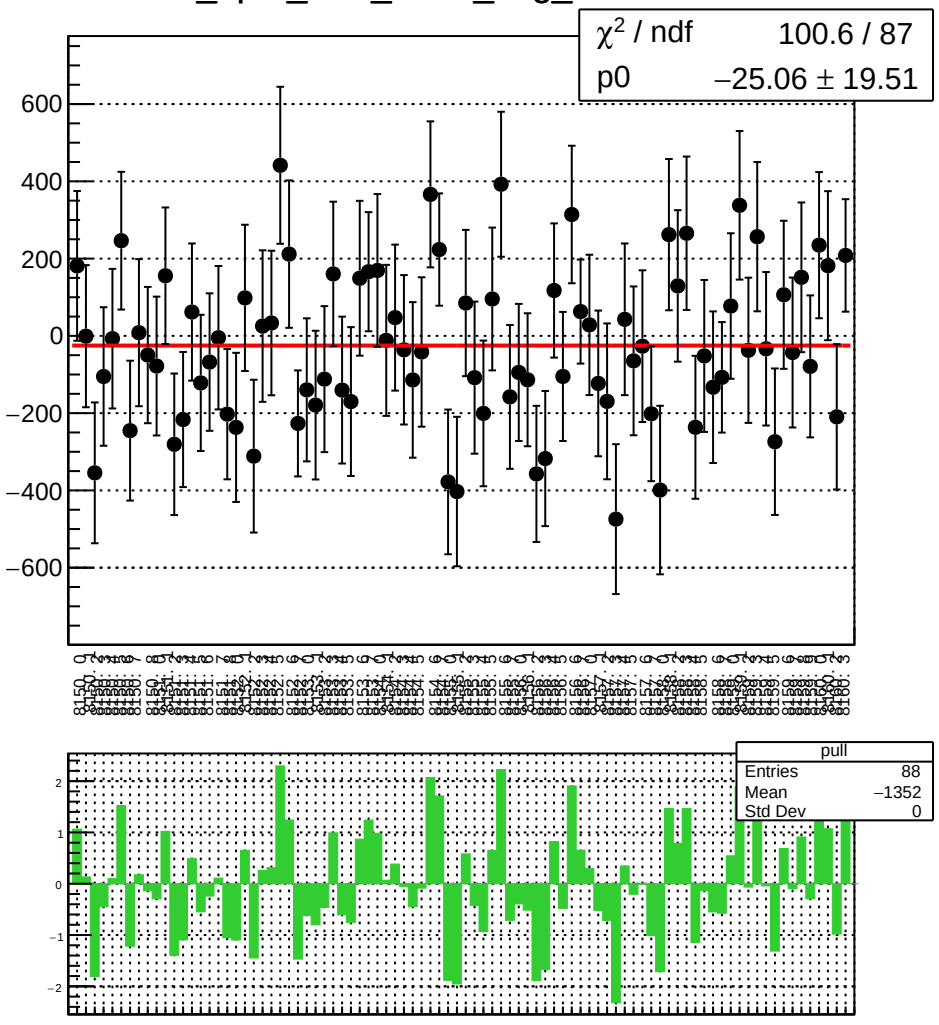

pull1D
Entries 88
Mean −0.002146
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

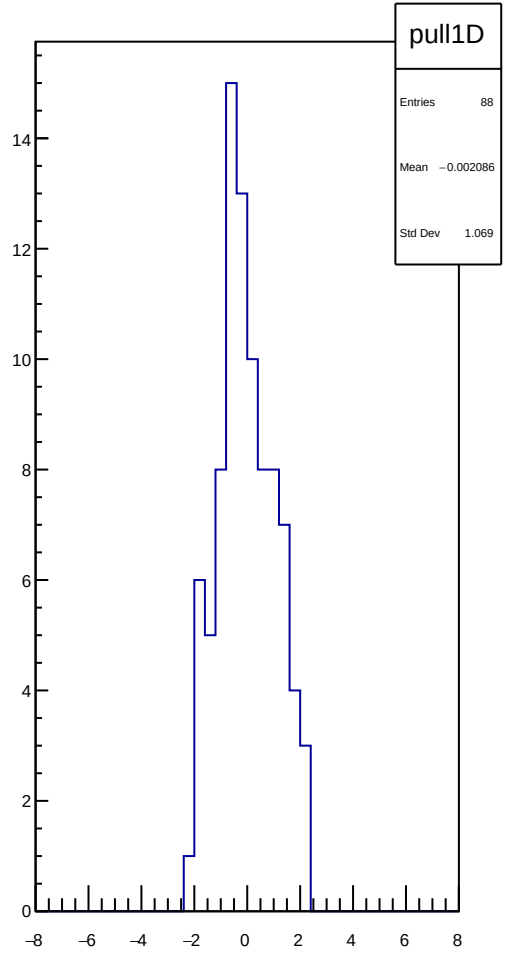

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 3280 / 87
p0 1.775e+04 ± 13.72
21000
20000
19000
18000
17000
16000

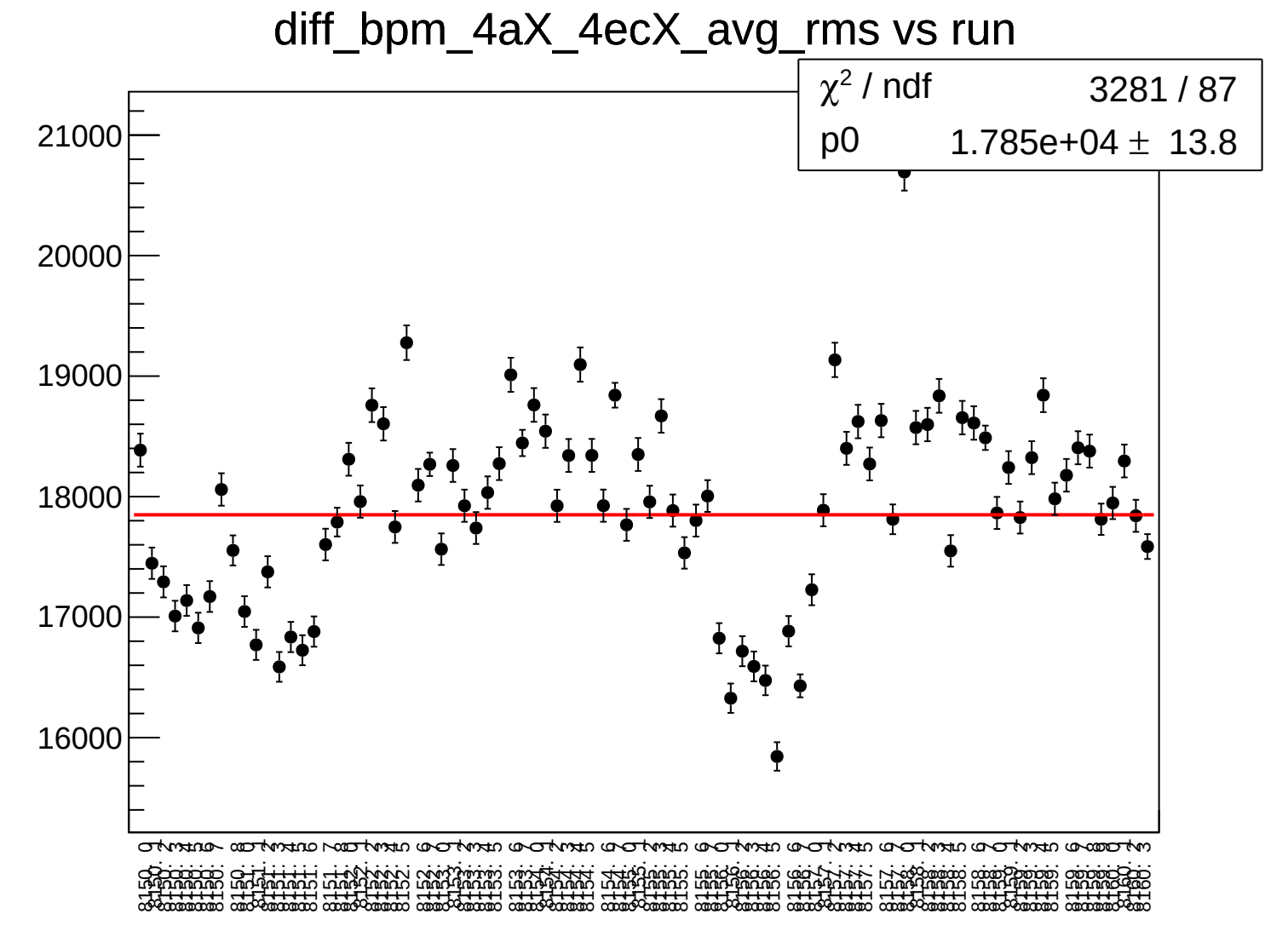

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 82.97 / 87
p0 −1.45 ± 0.7575
pull
Entries 88
Mean −4040
Std Dev 0

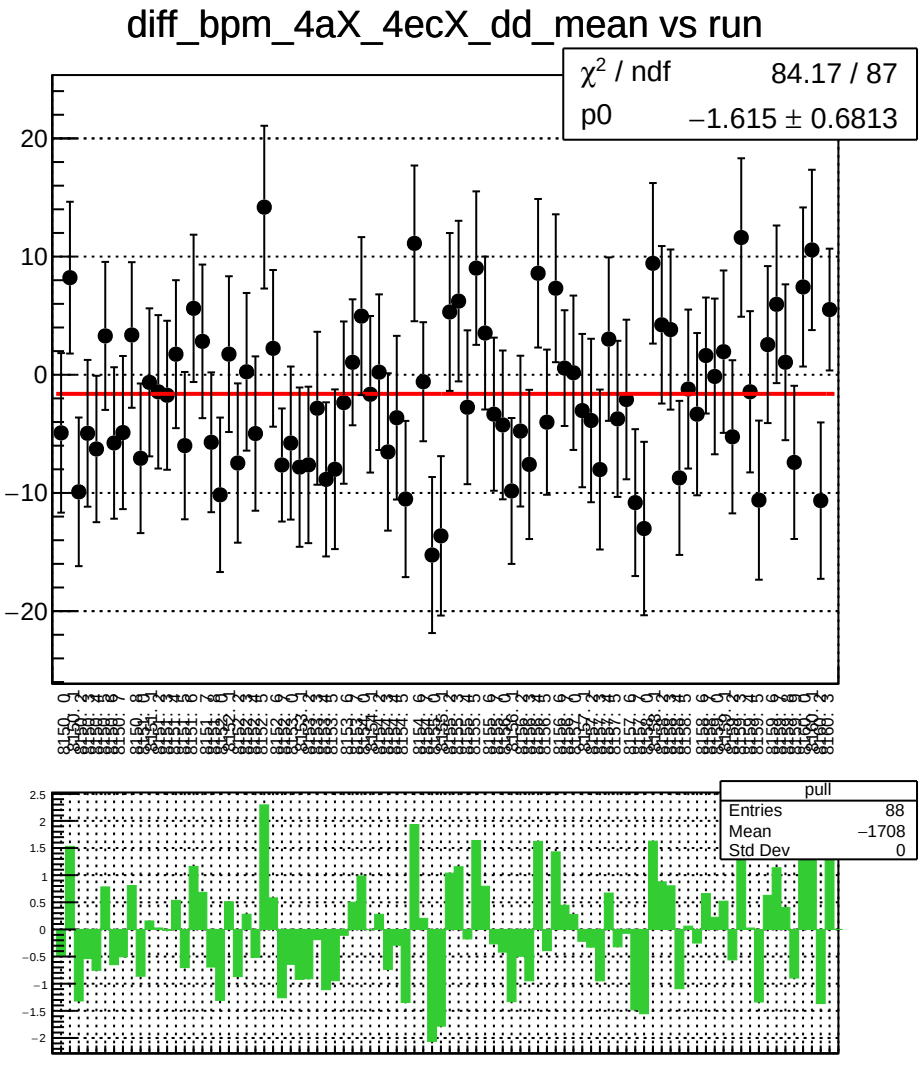

pull1D
Entries 88
Mean −0.0007269
Std Dev 0.971

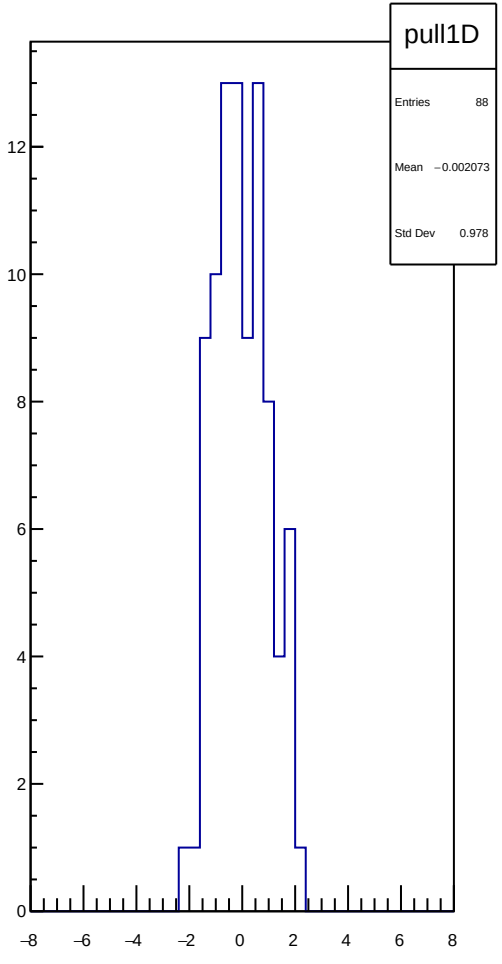

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 2278 / 87
p0 693 ± 0.5356
800
780
760
740
720
700
680
660
640
620

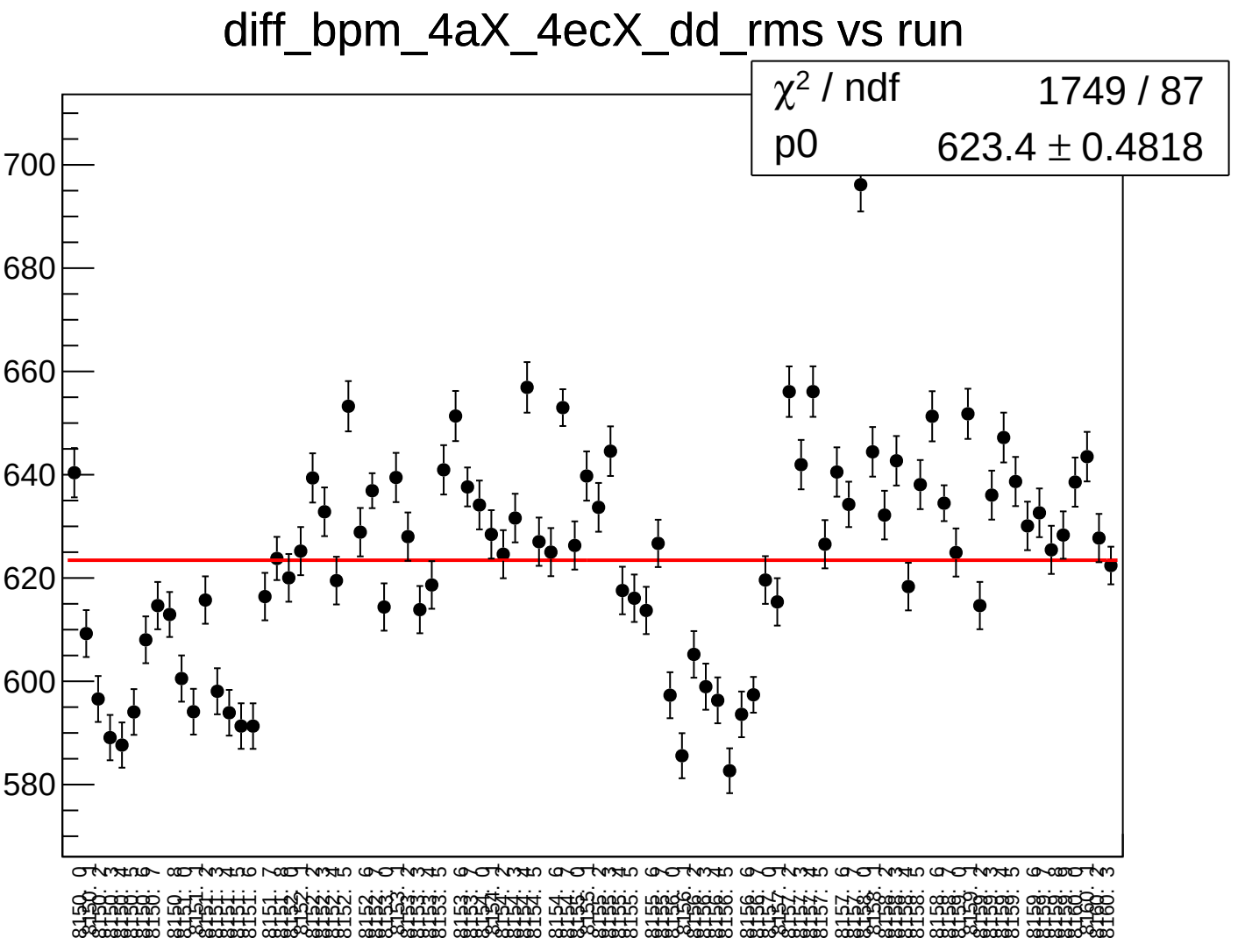

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 100.6 / 87
p0 −25.06 ± 19.51
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean −1352
Std Dev 0
2
1
0
−1
−2

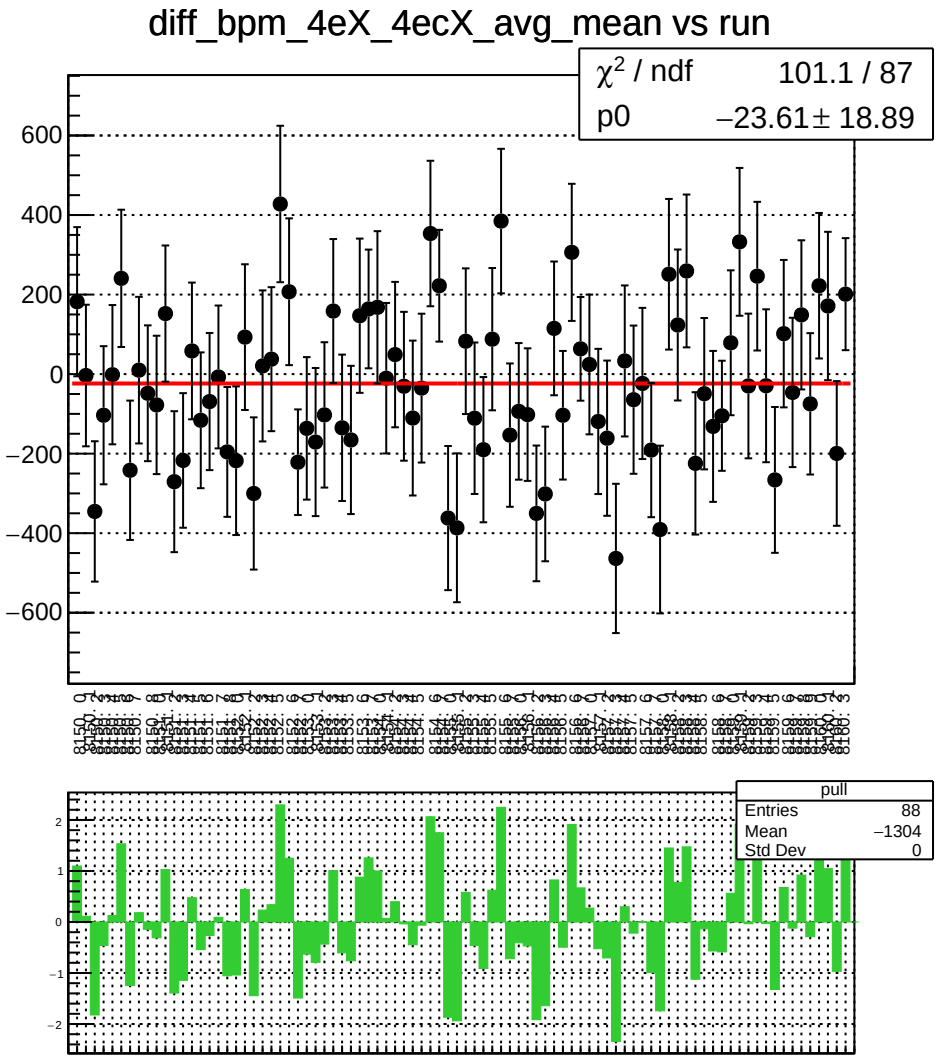

pull1D
Entries 88
Mean −0.002086
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

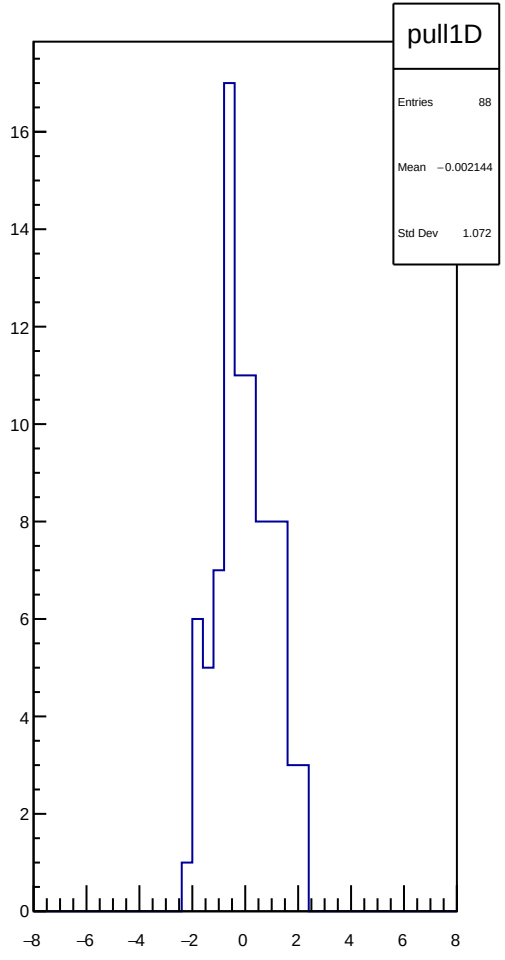

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 3281 / 87
p0 1.785e+04 ± 13.8
21000
20000
19000
18000
17000
16000

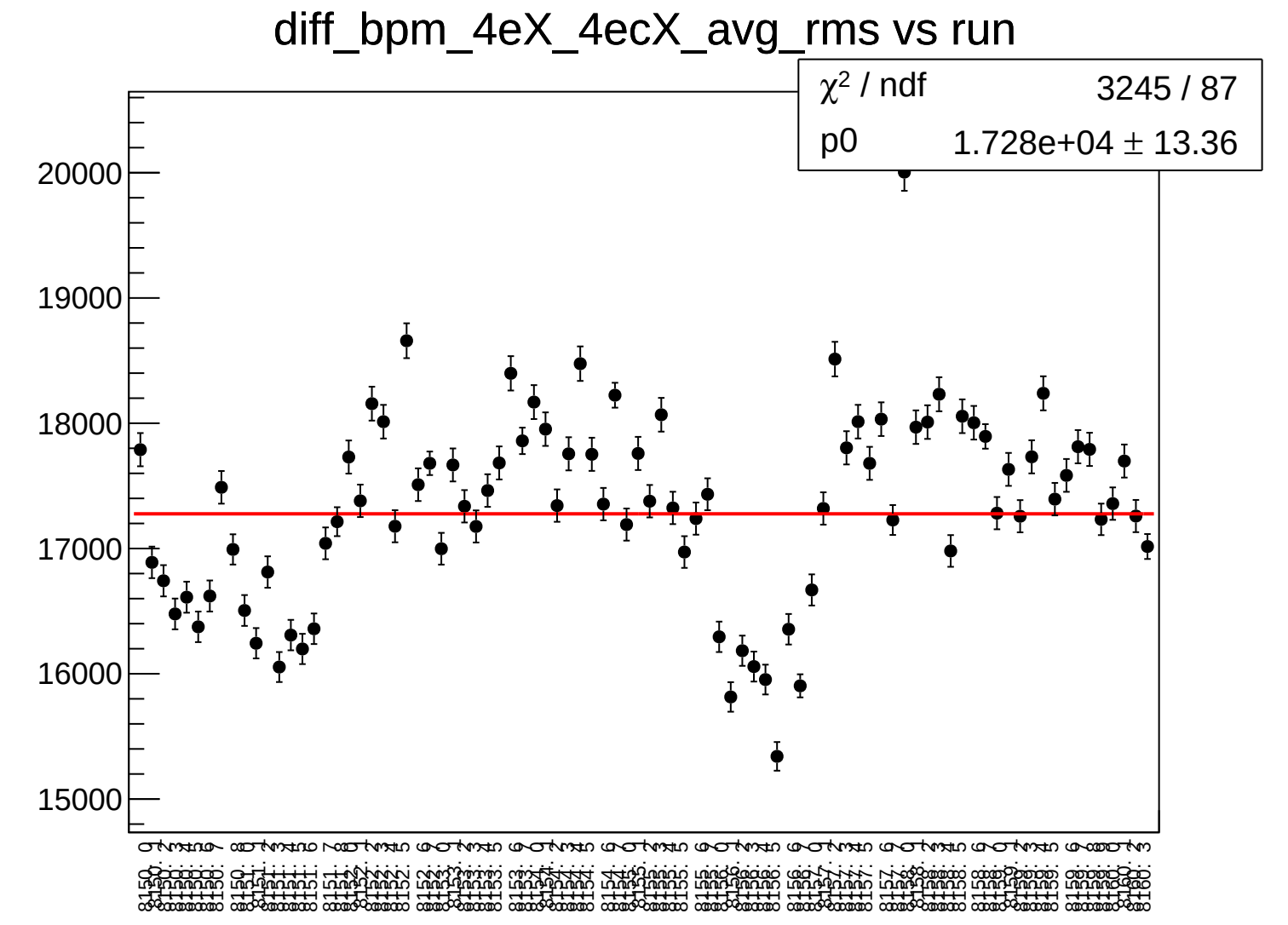

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 84.17 / 87
p0 −1.615 ± 0.6813
20
10
0
−10
−20
pull
Entries 88
Mean −1708
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

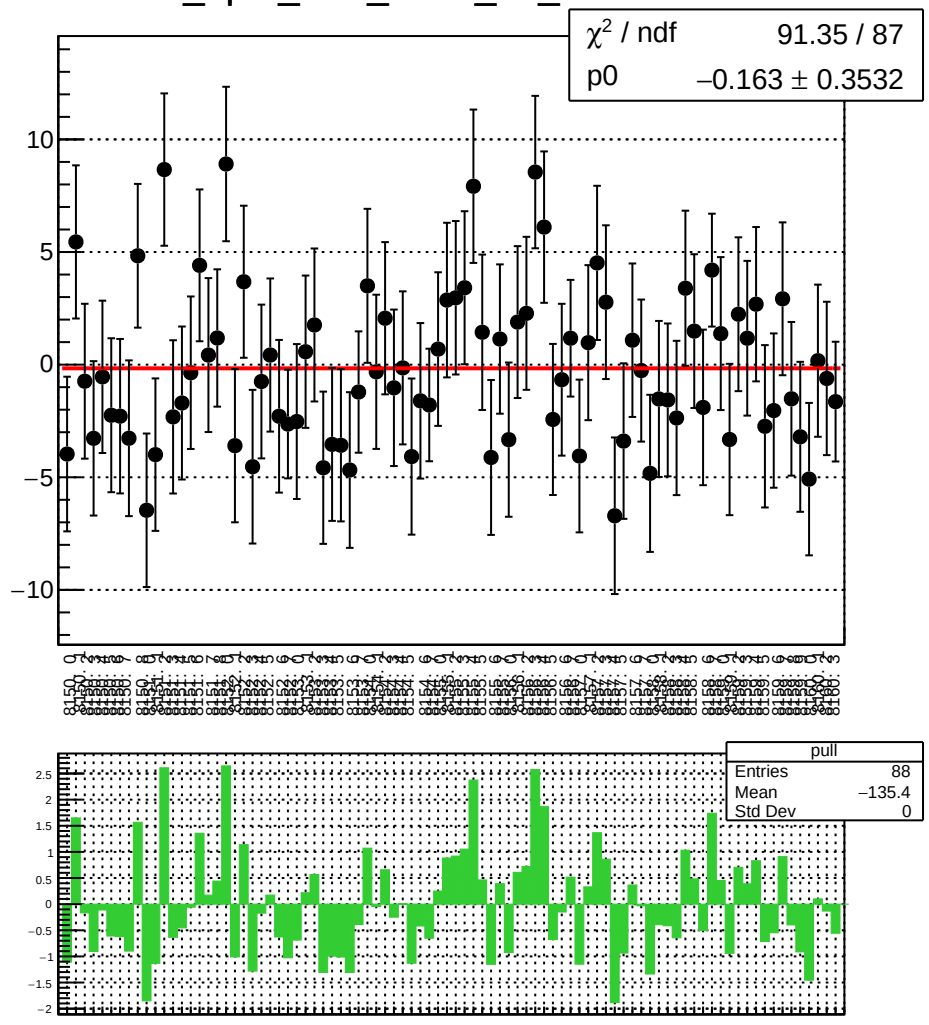

pull1D
Entries 88
Mean −0.002073
Std Dev 0.978
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

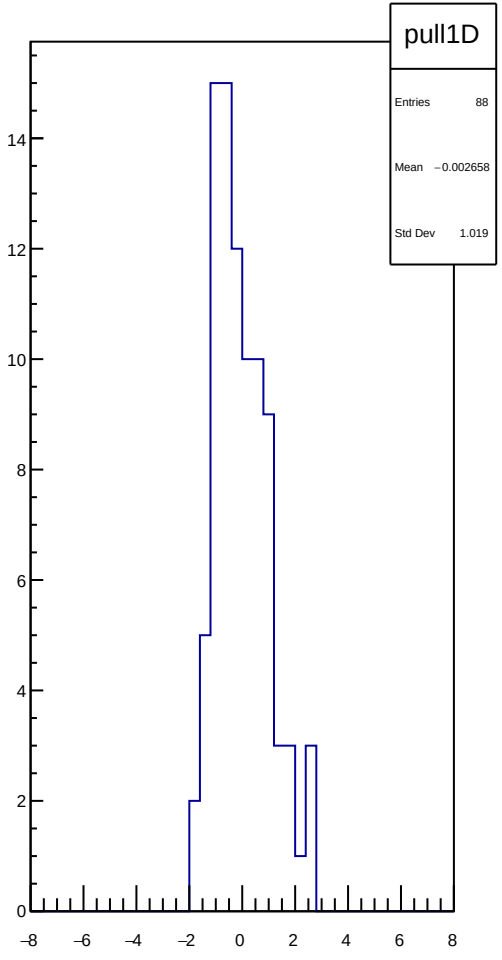

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1749 / 87
p0 623.4 ± 0.4818
700
680
660
640
620
600
580

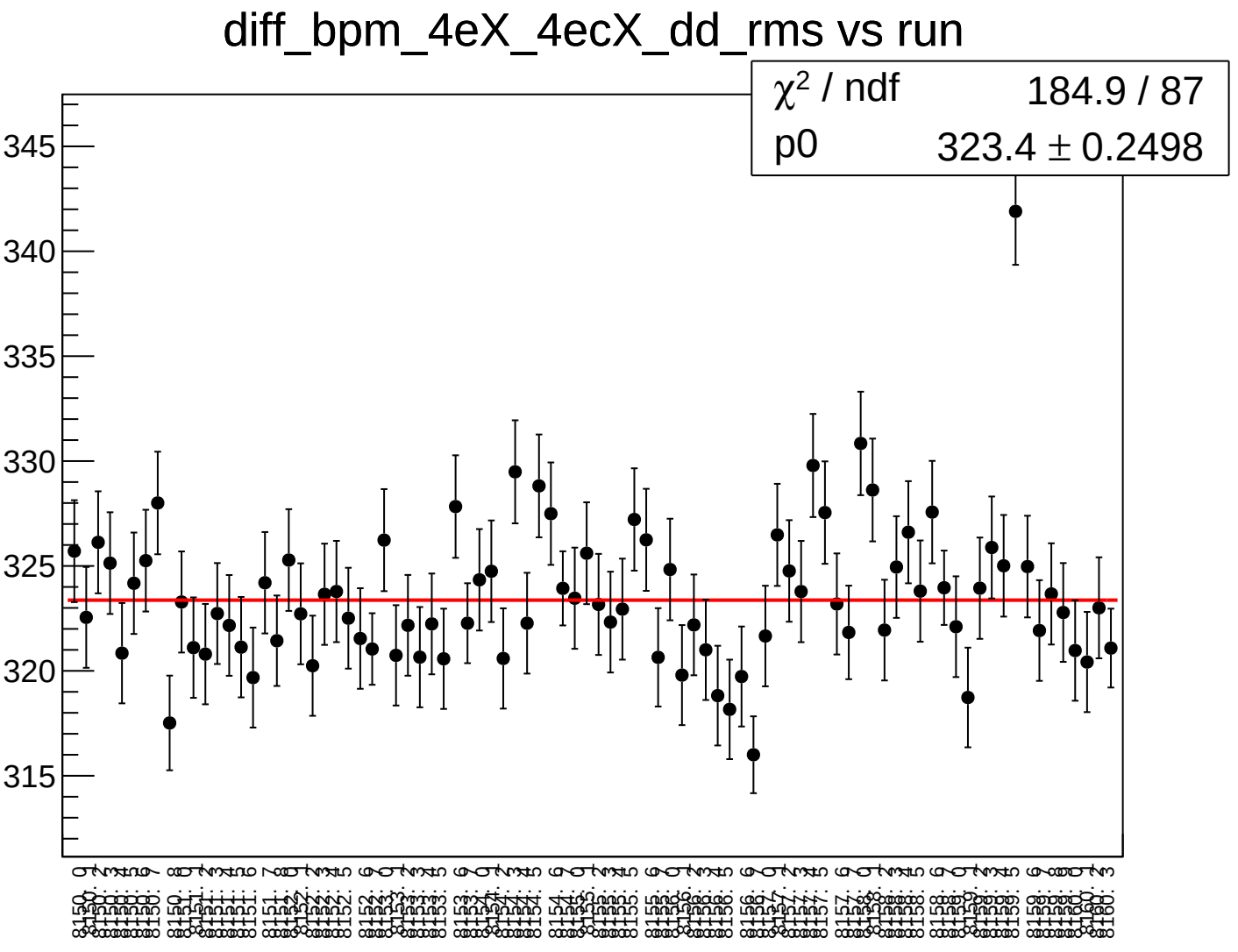

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 101.1 / 87
p0 −23.61 ± 18.89
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean −1304
Std Dev 0
2
1
0
−1
−2

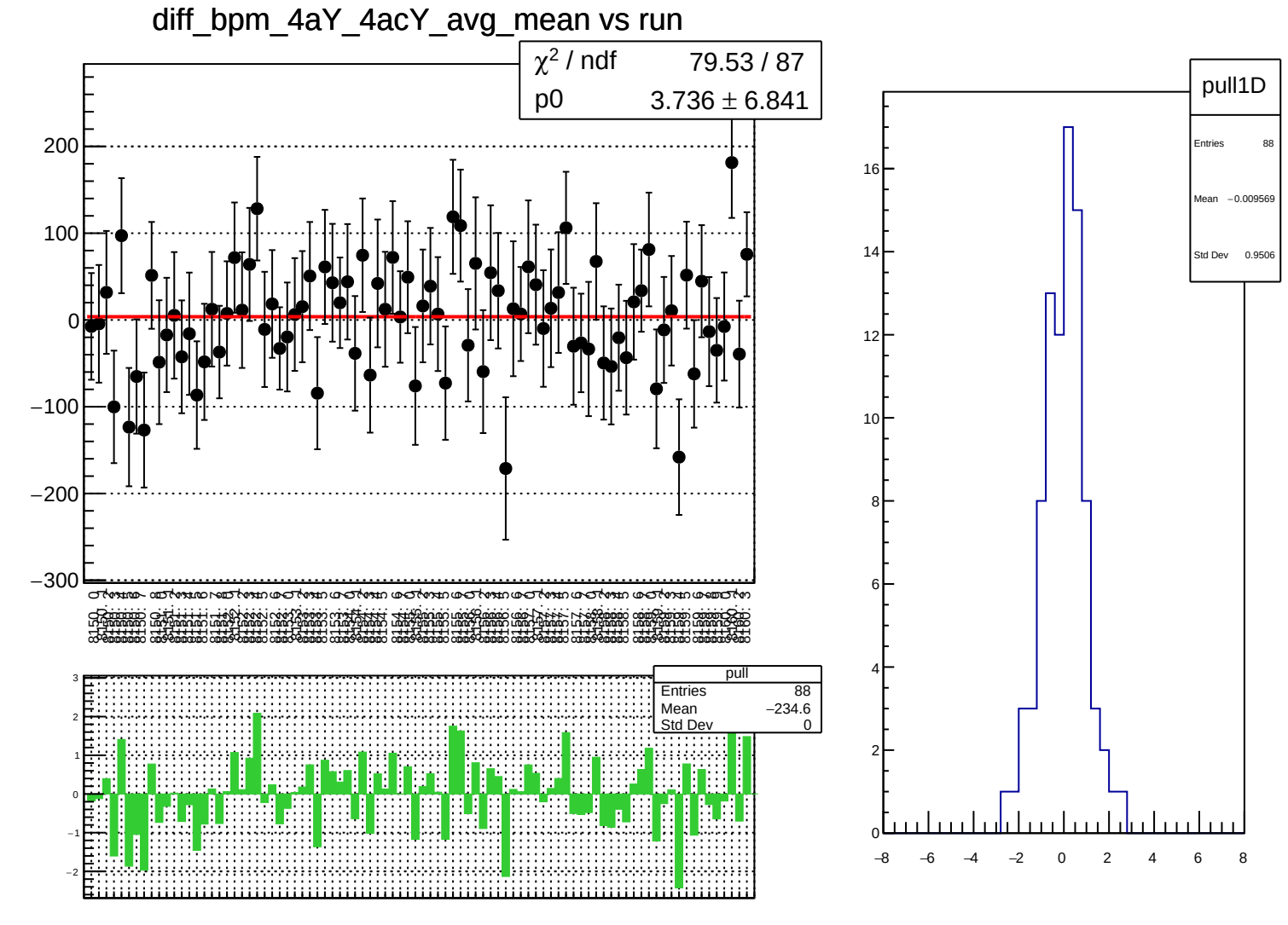

pull1D
Entries 88
Mean −0.002144
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

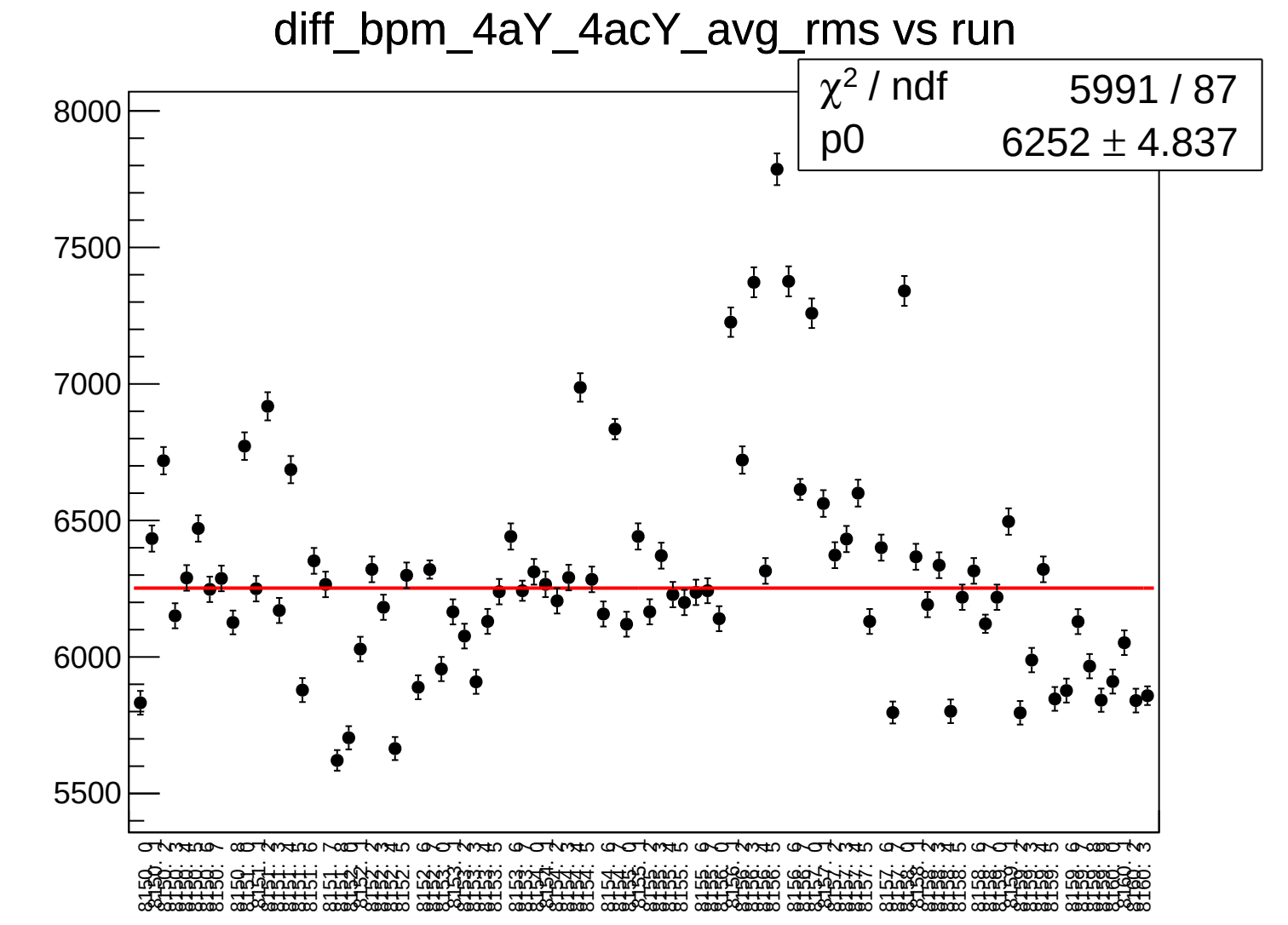

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 3245 / 87
p0 1.728e+04 ± 13.36
20000
19000
18000
17000
16000
15000

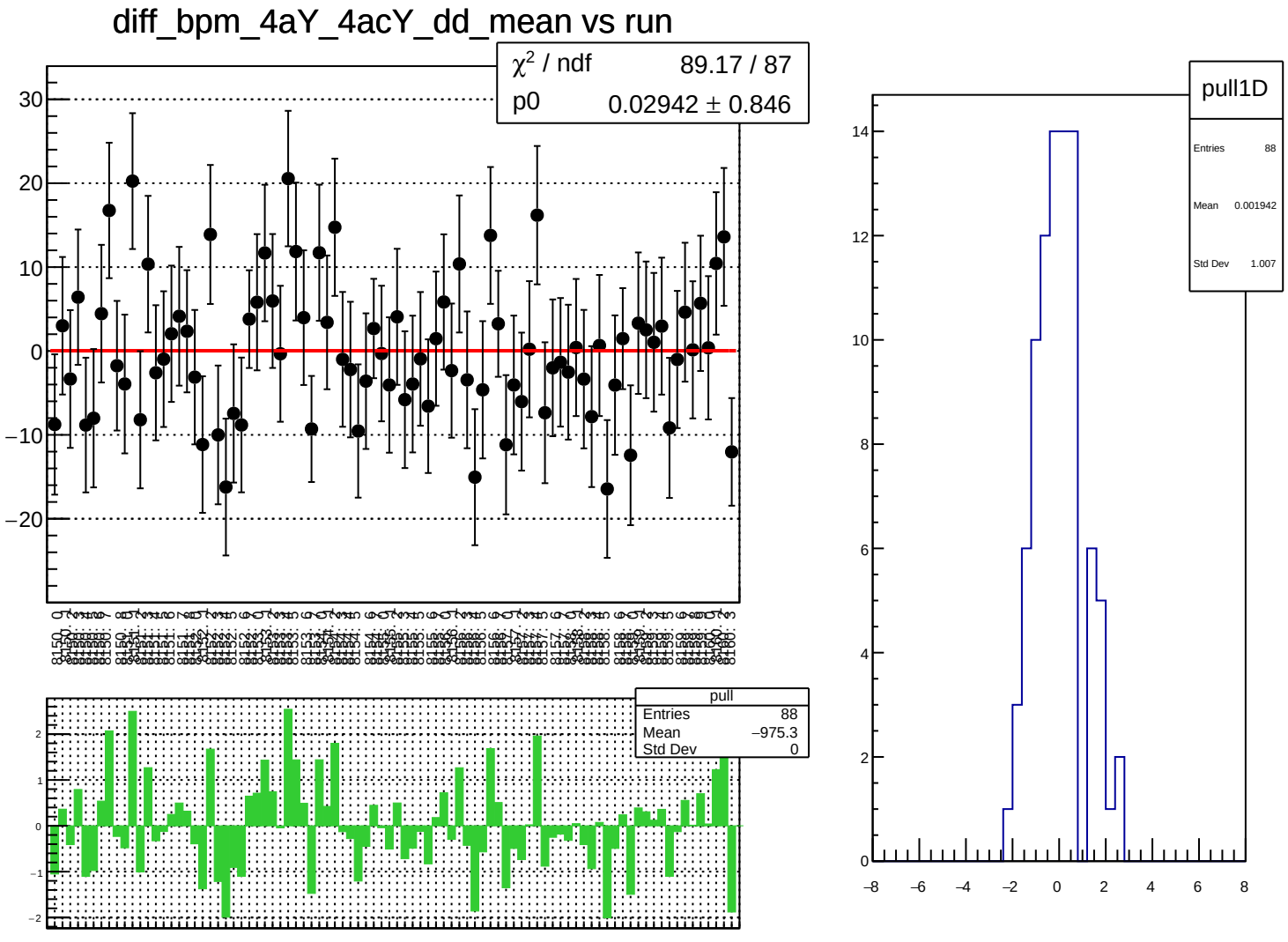

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 91.35 / 87
p0 −0.163 ± 0.3532
pull
Entries 88
Mean −135.4
Std Dev 0

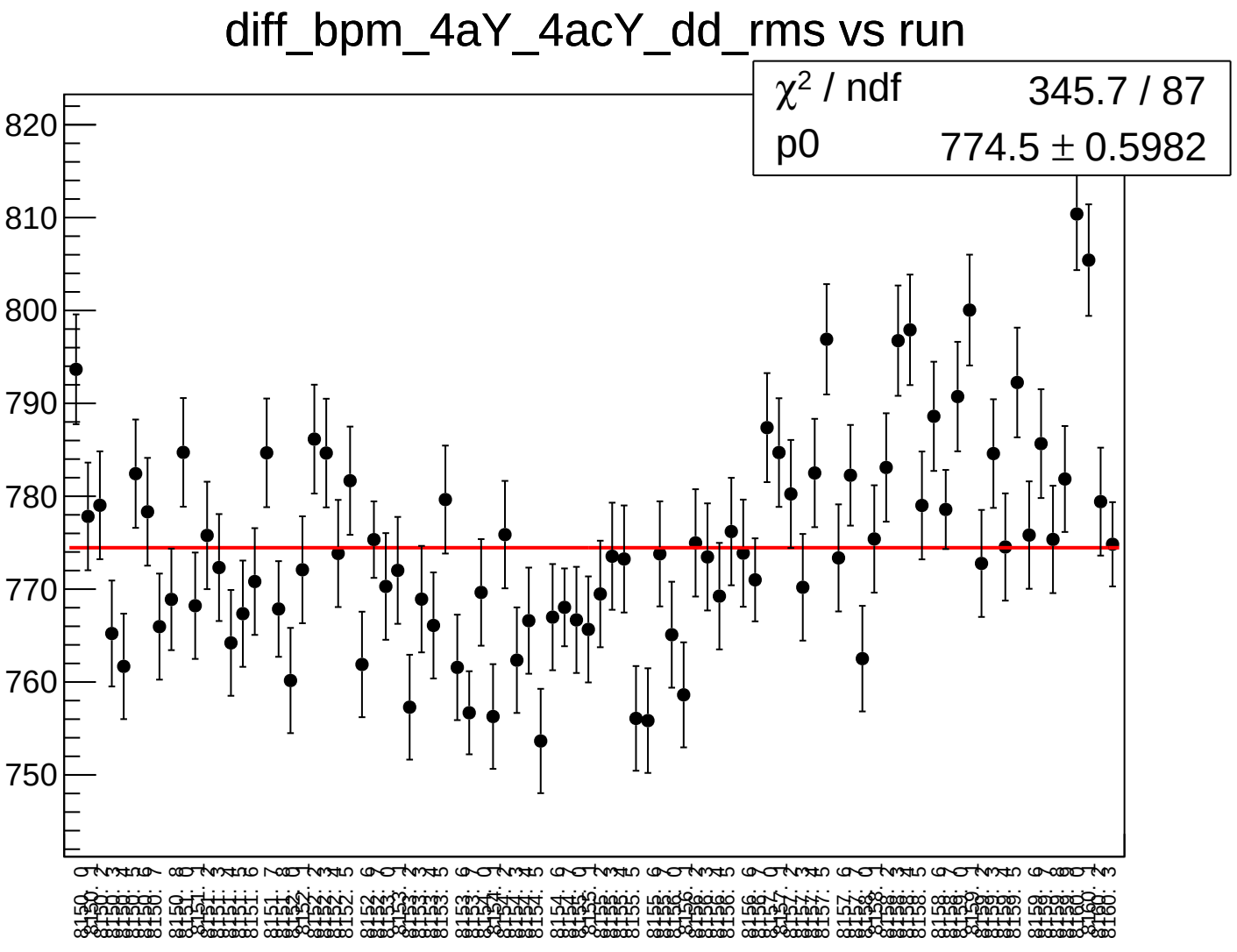

pull1D
Entries 88
Mean −0.002658
Std Dev 1.019

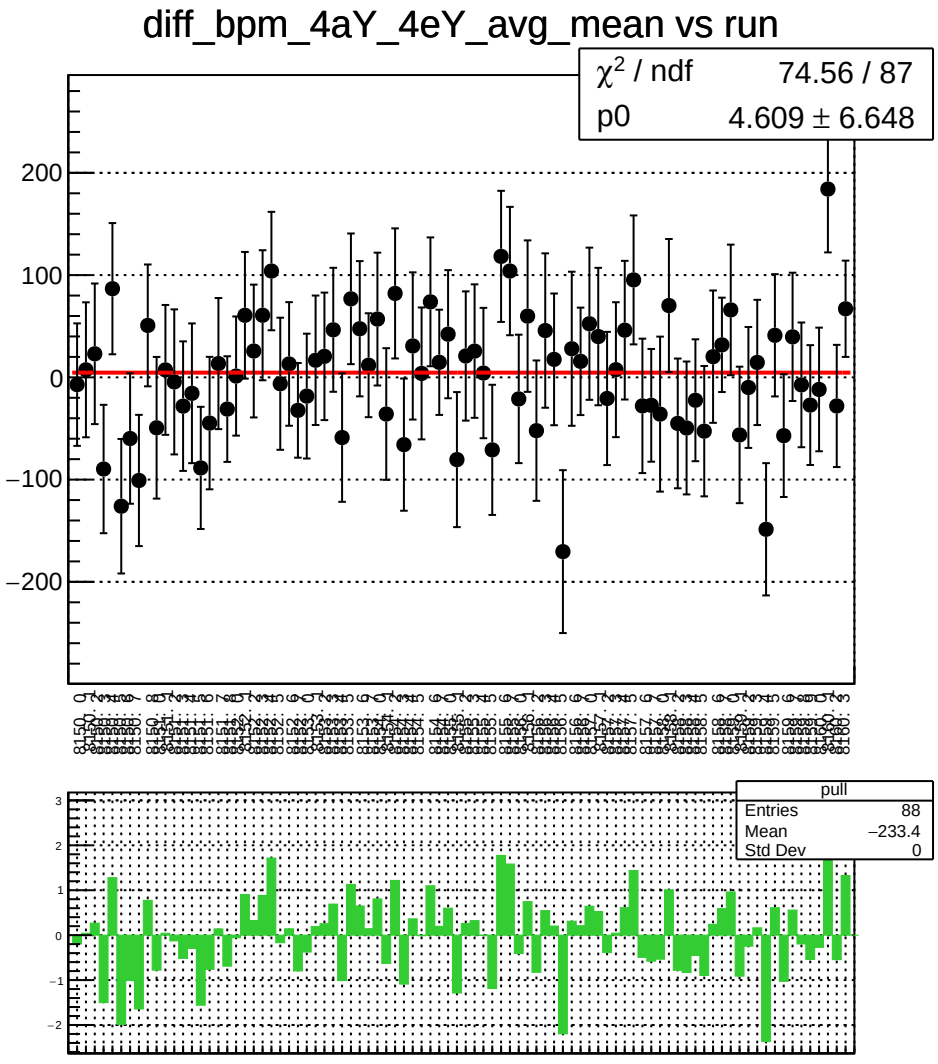

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 184.9 / 87
p0 323.4 ± 0.2498
345
340
335
330
325
320
315

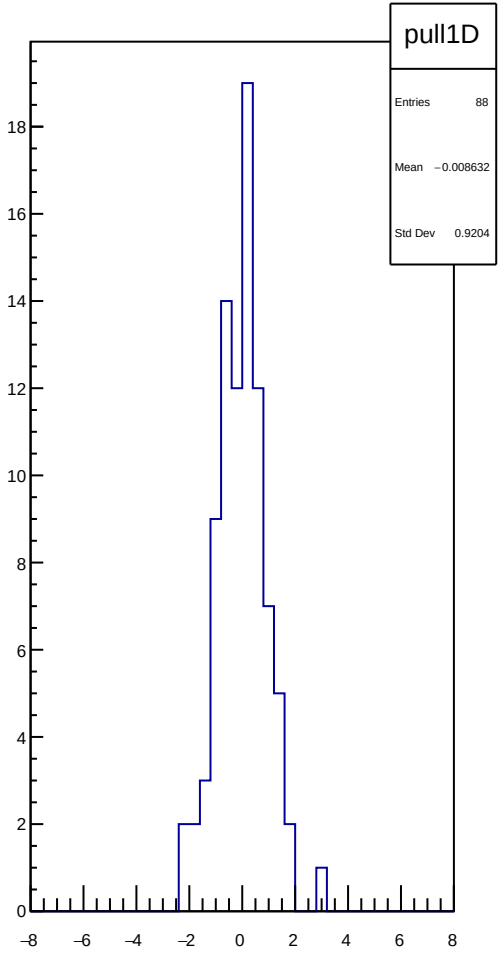

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 79.53 / 87
p0 3.736 ± 6.841
200
100
0
−100
−200
−300
pull
Entries 88
Mean −234.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.009569
Std Dev 0.9506
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

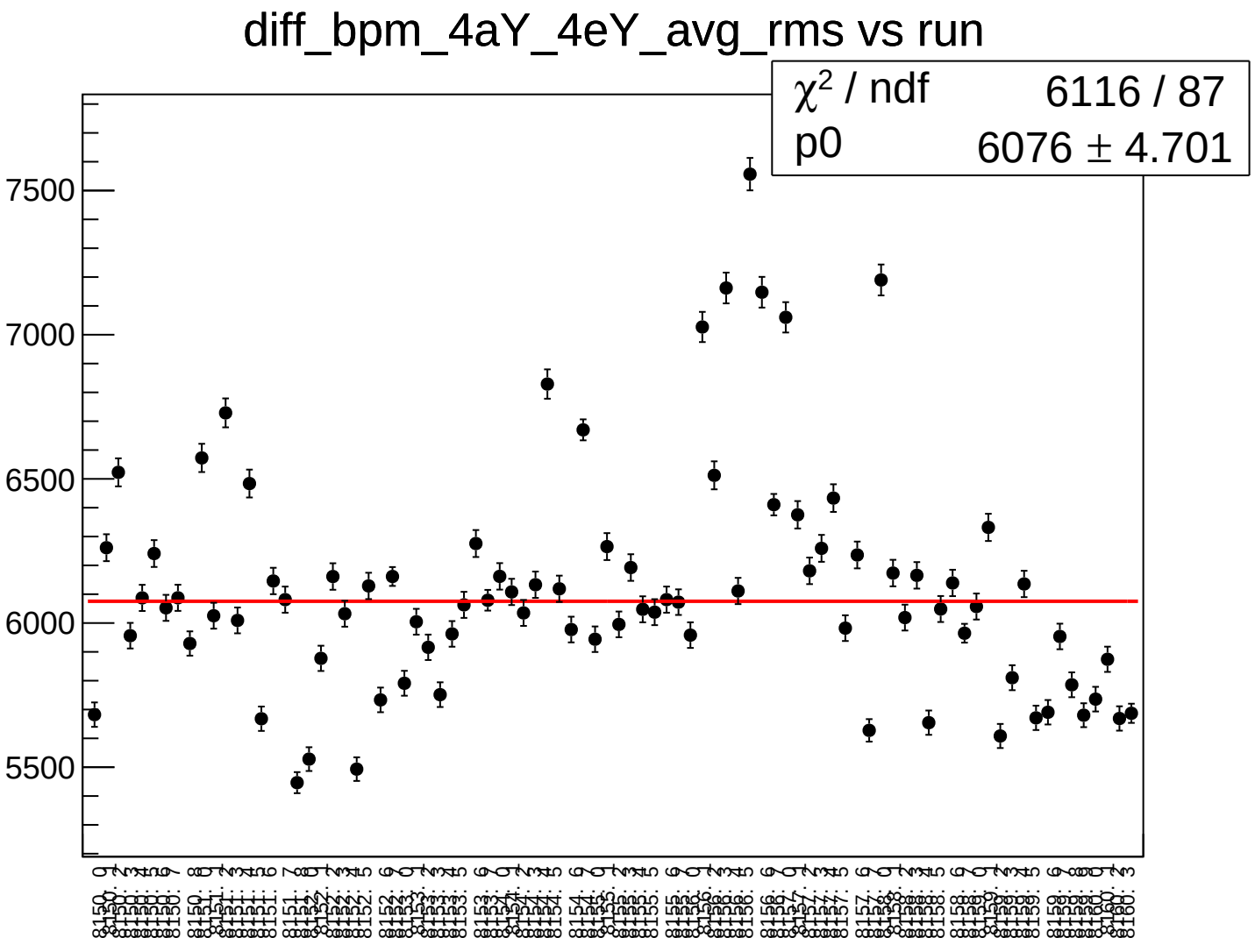

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 5991 / 87
p0 6252 ± 4.837
8000
7500
7000
6500
6000
5500

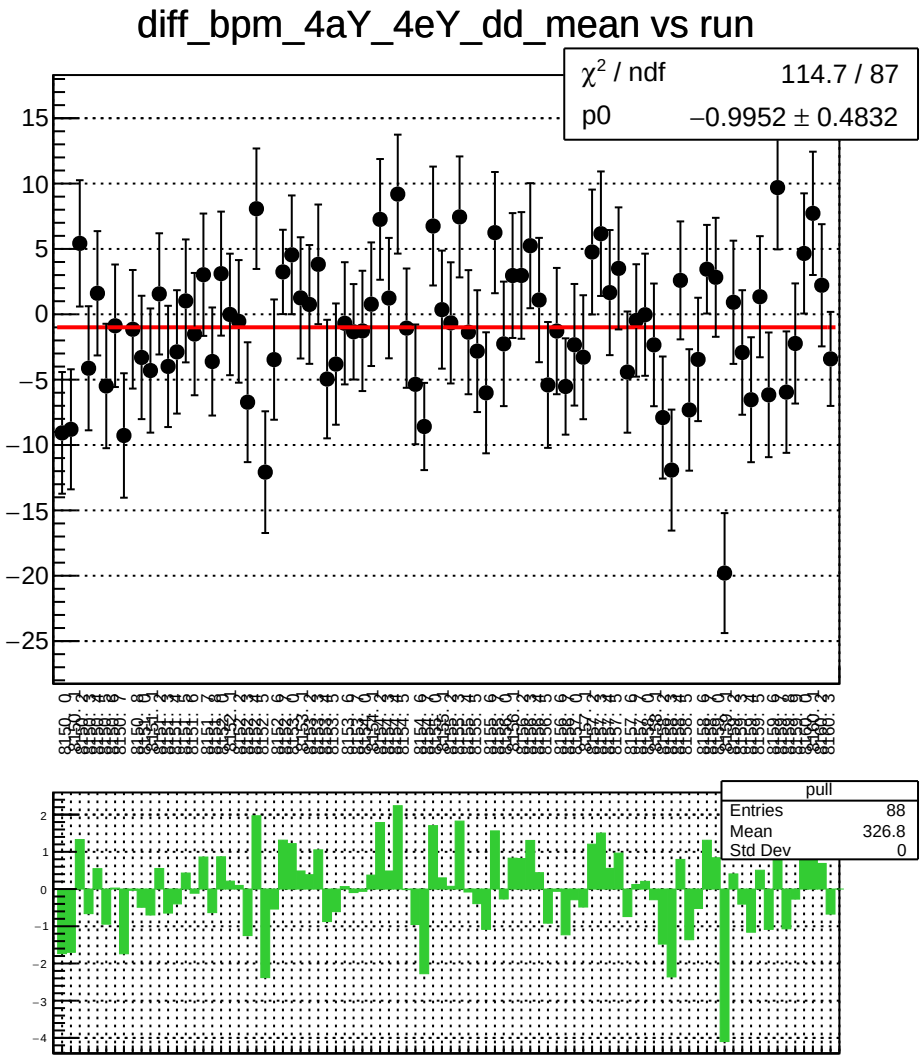

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 89.17 / 87
p0 0.02942 ± 0.846
pull
Entries 88
Mean −975.3
Std Dev 0
pull1D
Entries 88
Mean 0.001942
Std Dev 1.007

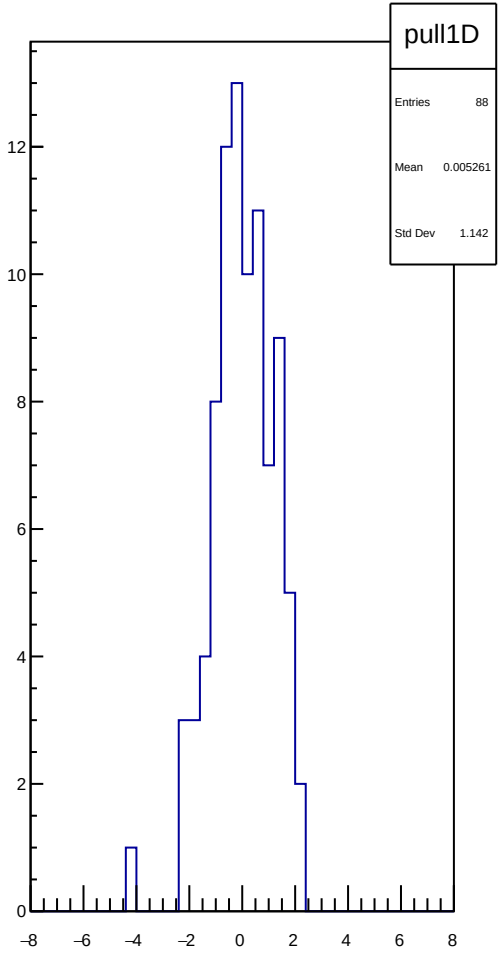

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 345.7 / 87
p0 774.5 ± 0.5982
820
810
800
790
780
770
760
750

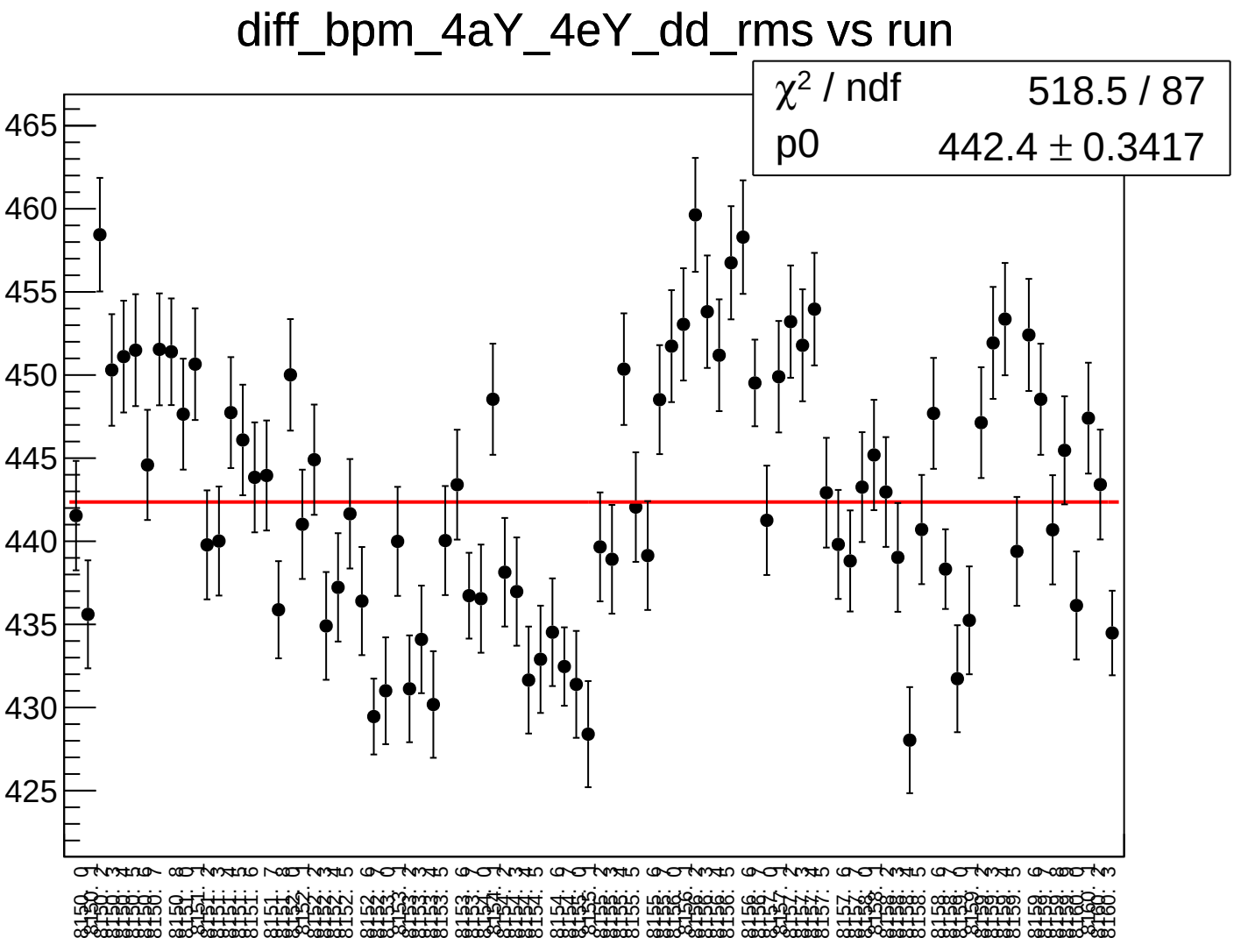

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 74.56 / 87
p0 4.609 ± 6.648
200
100
0
−100
−200
pull
Entries 88
Mean −233.4
Std Dev 0
3
2
1
0
−1
−2

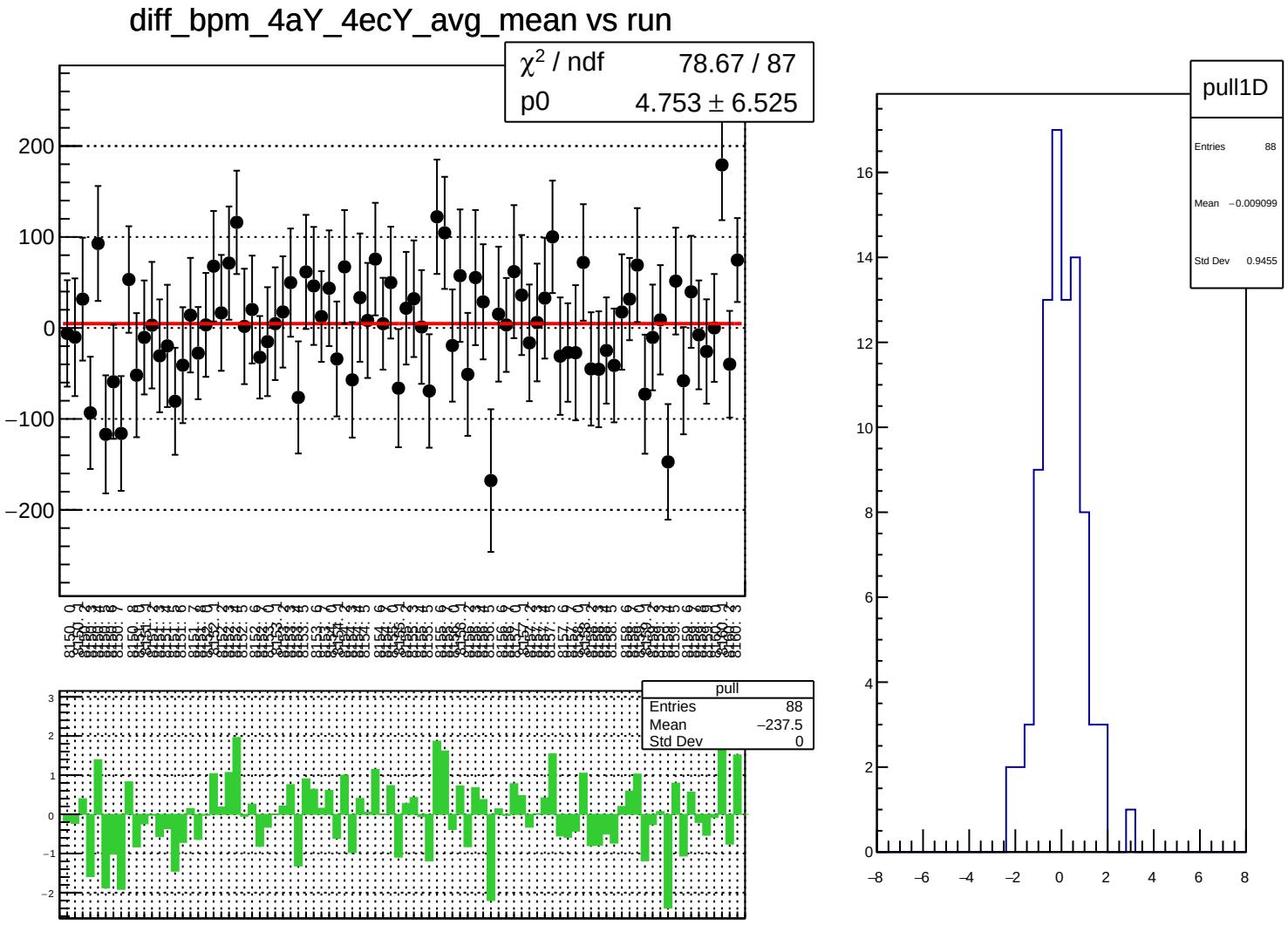

pull1D
Entries 88
Mean −0.008632
Std Dev 0.9204
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

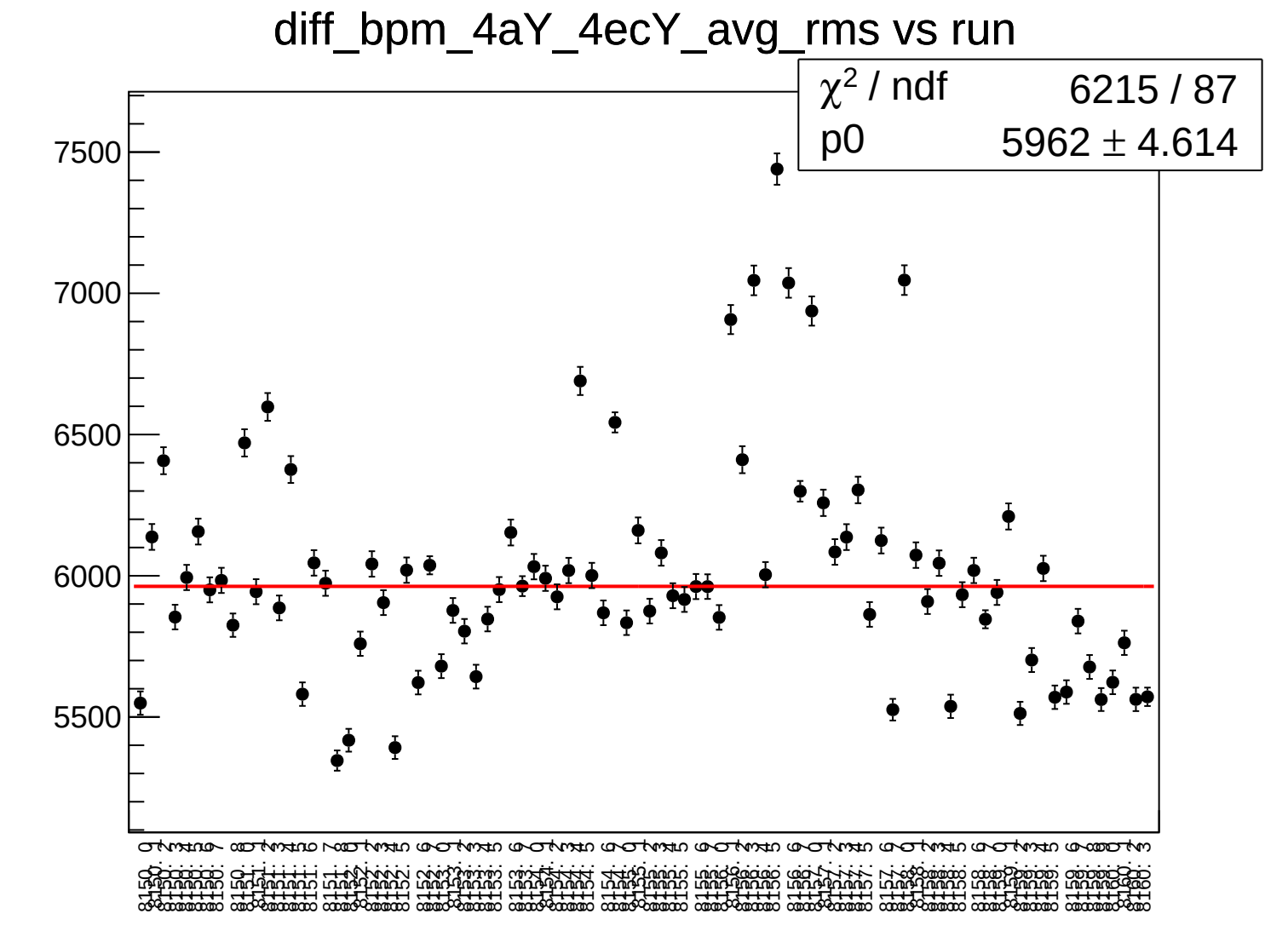

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 6116 / 87
p0 6076 ± 4.701
7500
7000
6500
6000
5500

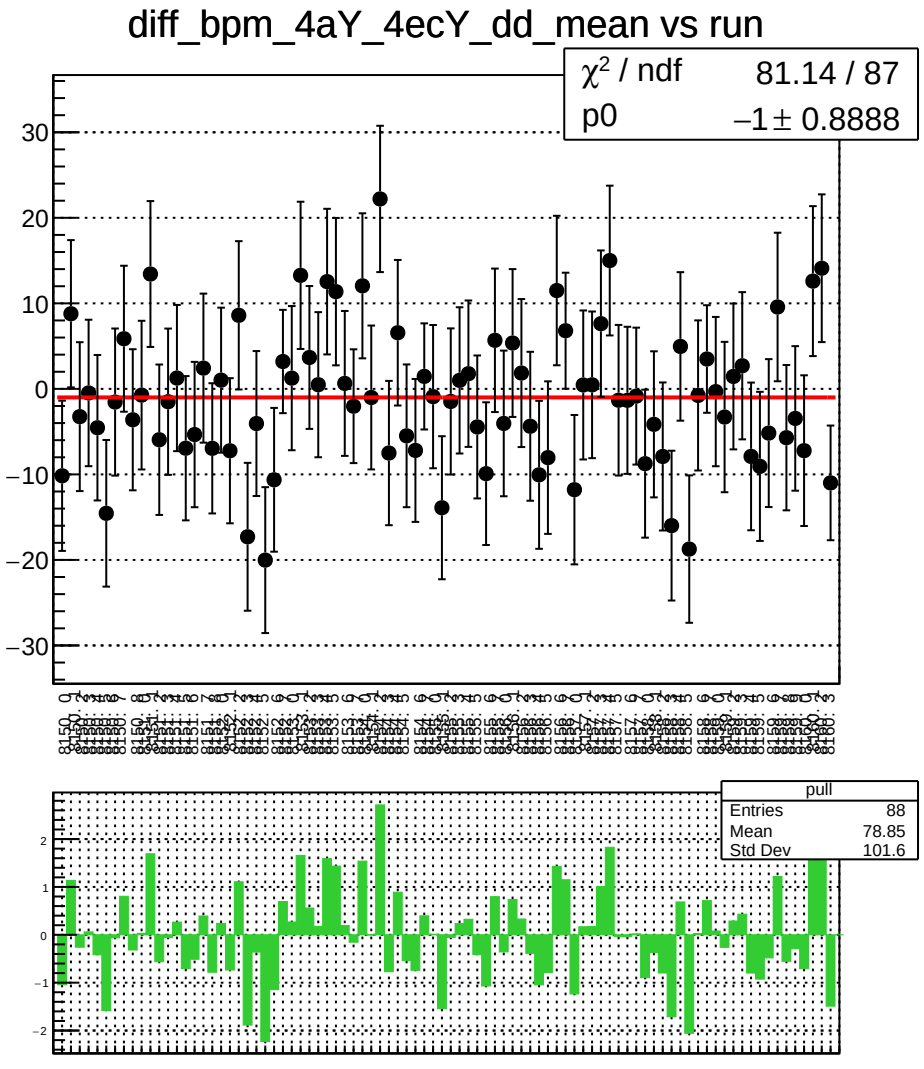

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 114.7 / 87
p0 −0.9952 ± 0.4832
pull
Entries 88
Mean 326.8
Std Dev 0

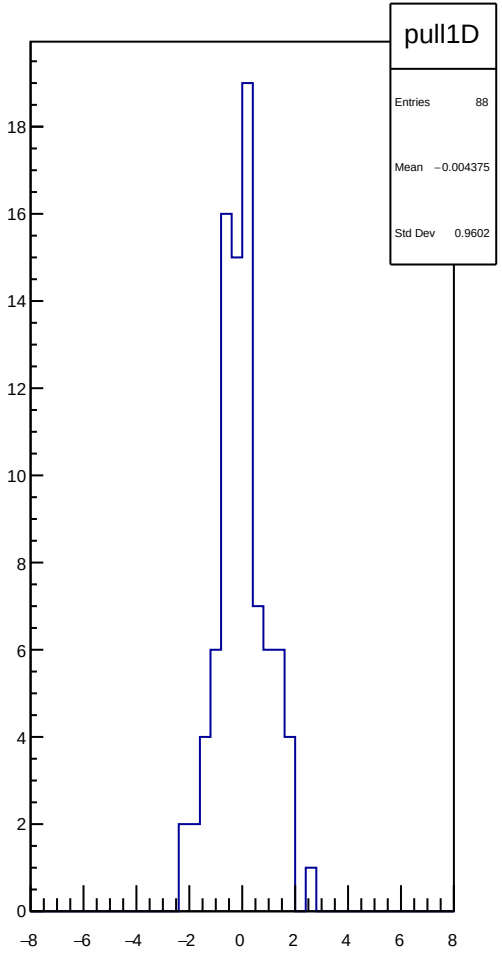

pull1D
Entries 88
Mean 0.005261
Std Dev 1.142

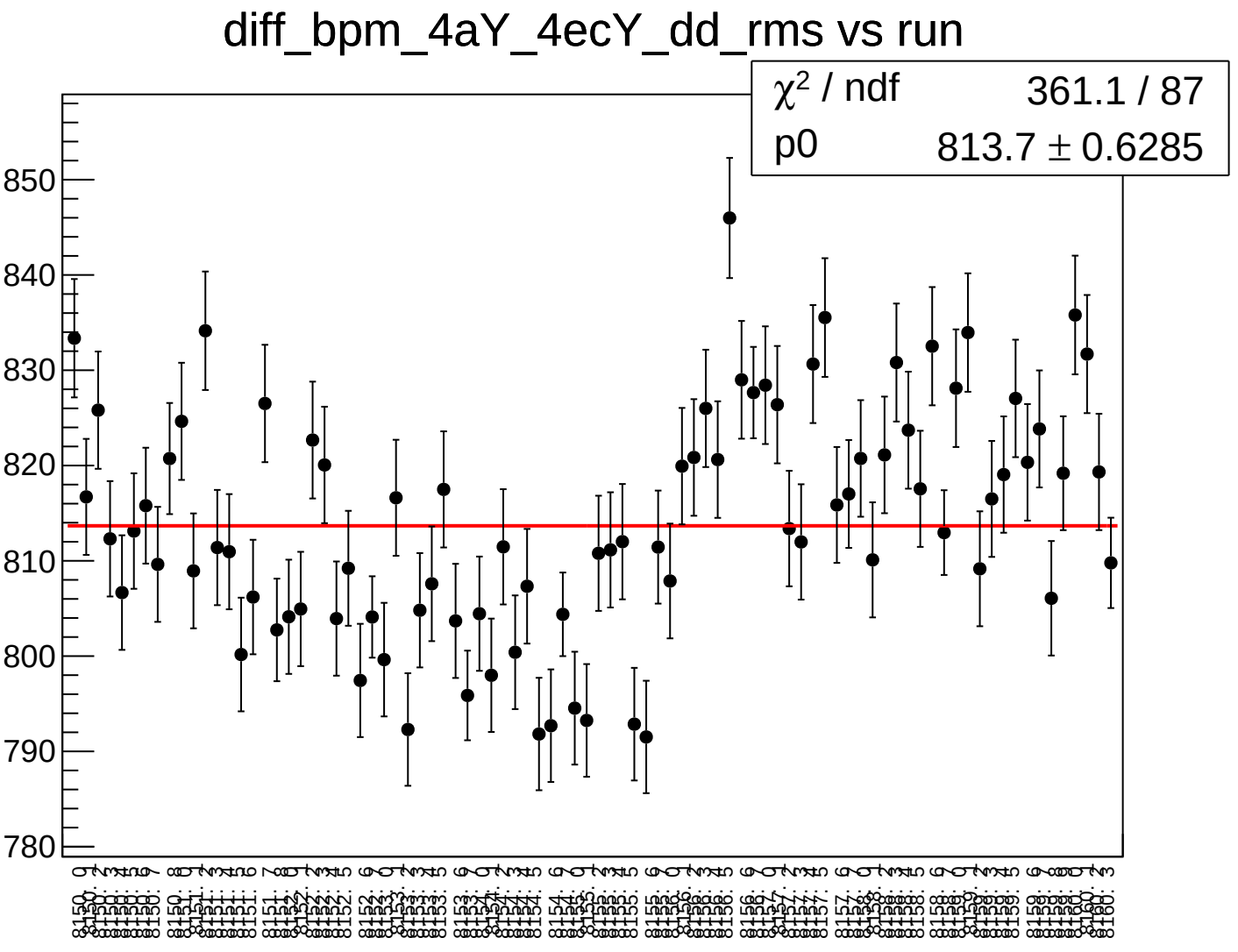

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 518.5 / 87
p0 442.4 ± 0.3417
465
460
455
450
445
440
435
430
425

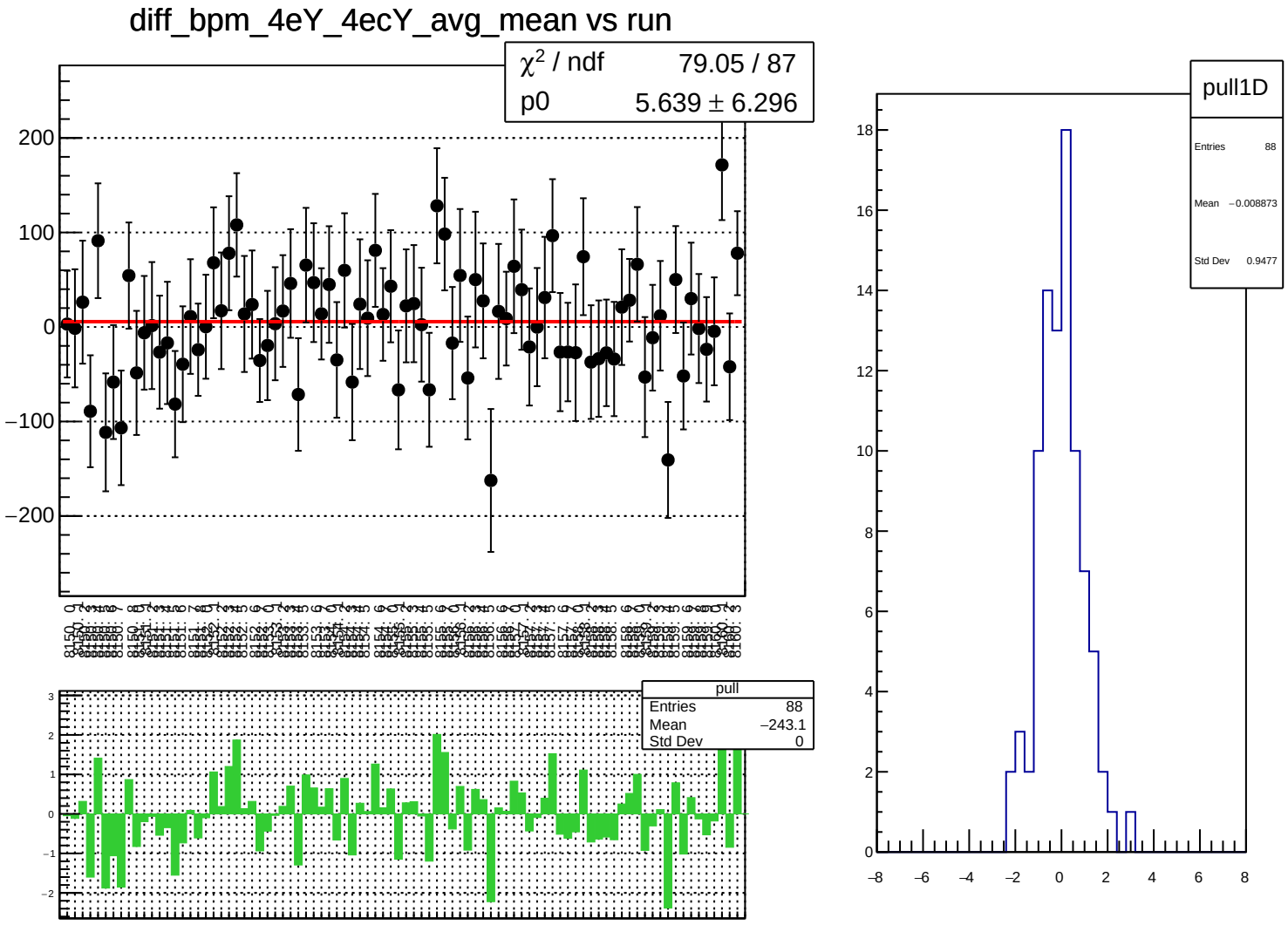

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 78.67 / 87
p0 4.753 ± 6.525
200
100
0
−100
−200
pull
Entries 88
Mean −237.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.009099
Std Dev 0.9455
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

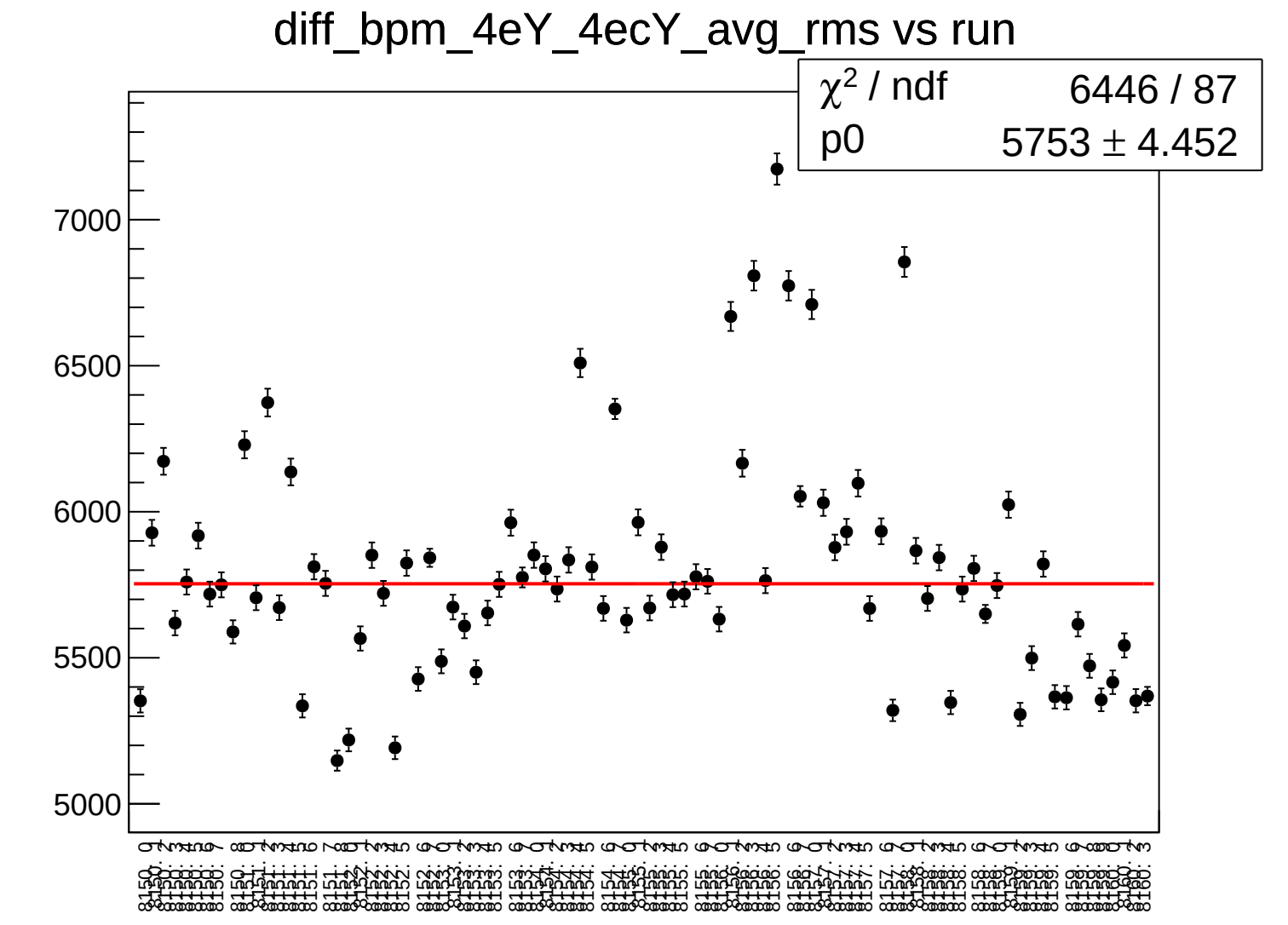

diff_bpm_4aY_4ecY_avg_rms vs run
χ^2 / ndf 6215 / 87
p0 5962 ± 4.614
7500
7000
6500
6000
5500

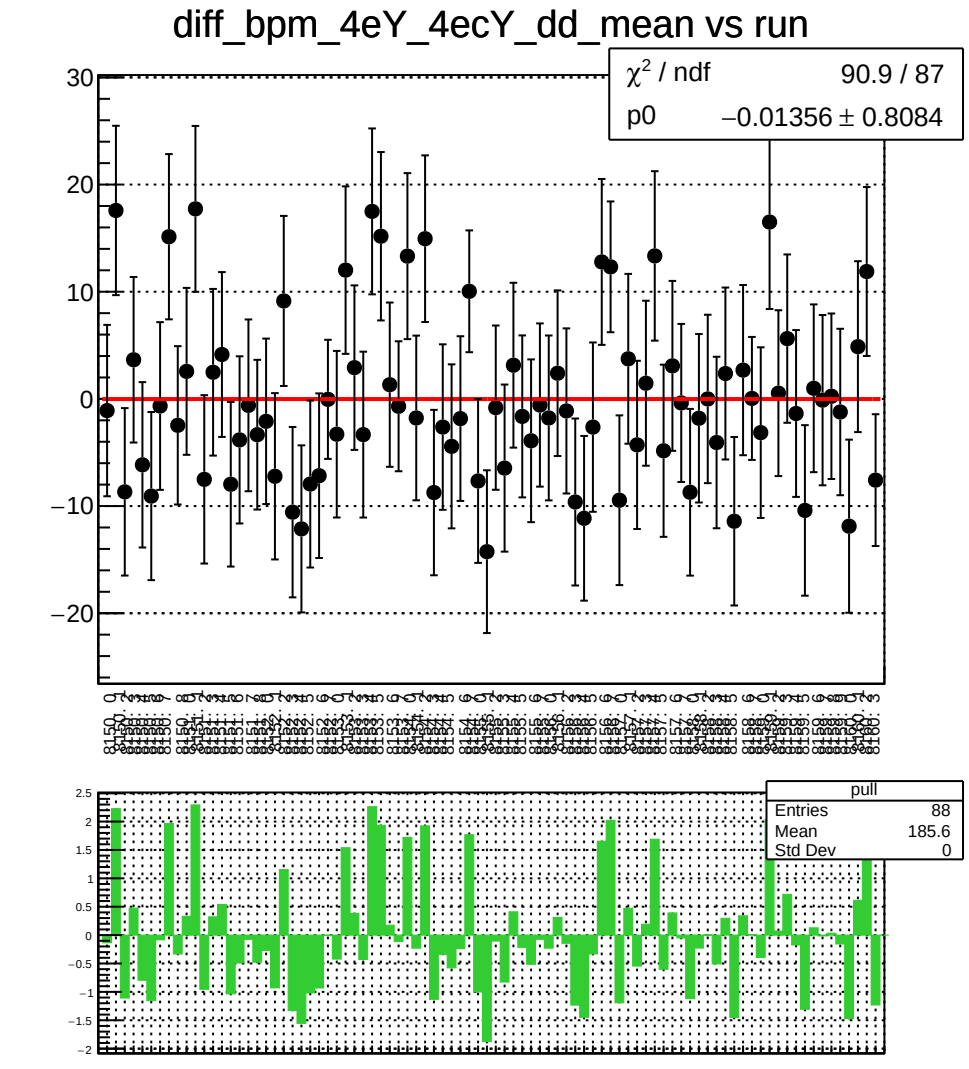

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 81.14 / 87
p0 −1 ± 0.8888
pull
Entries 88
Mean 78.85
Std Dev 101.6

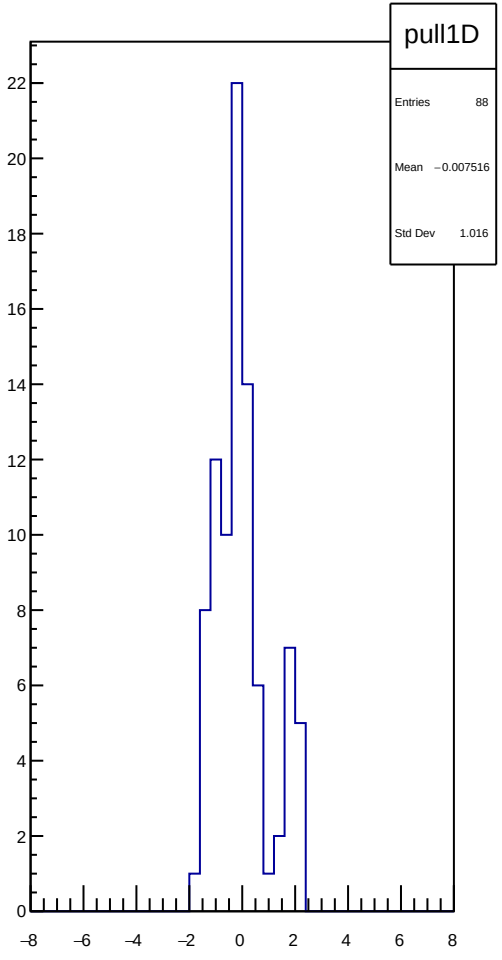

pull1D
Entries 88
Mean −0.004375
Std Dev 0.9602

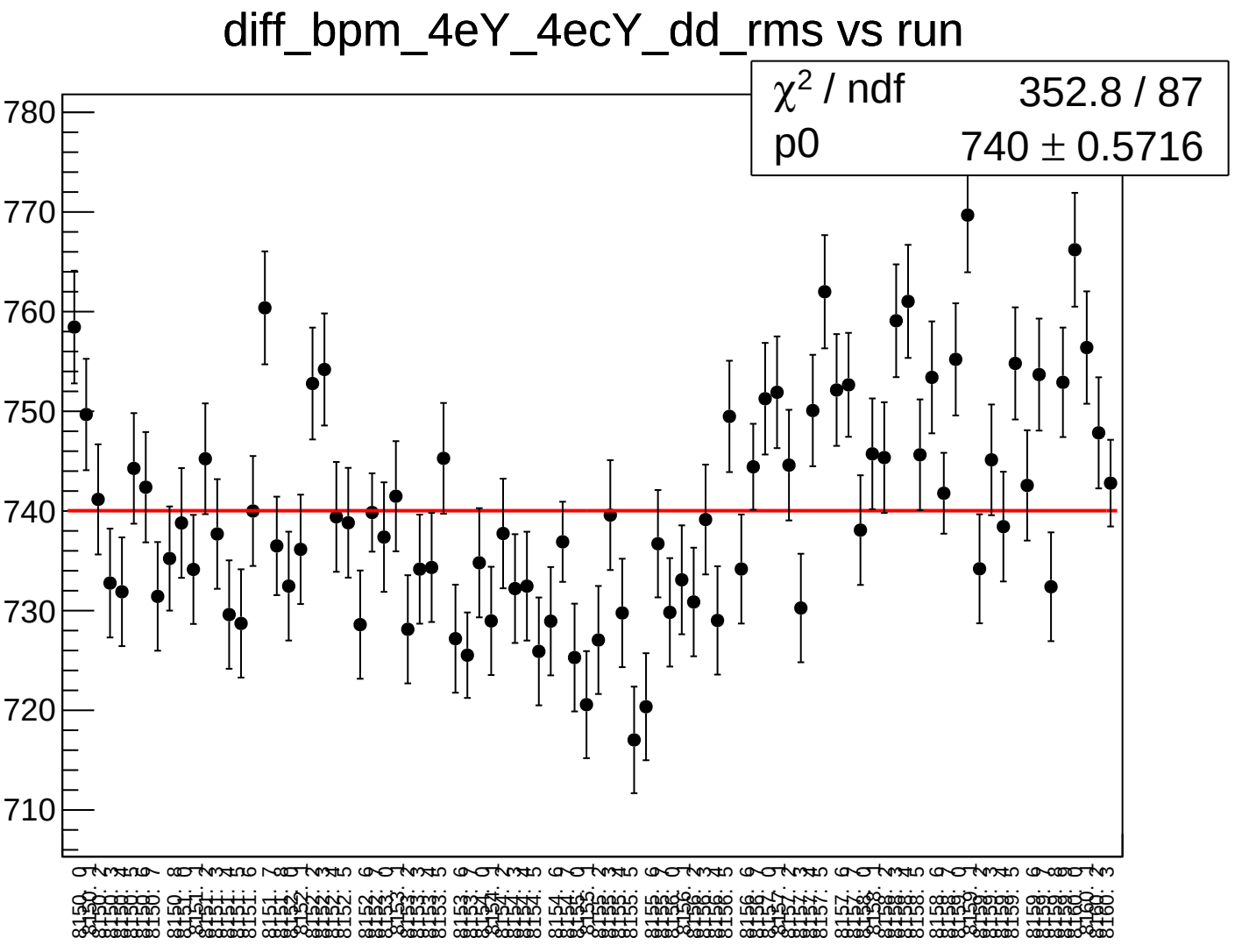

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 361.1 / 87
p0 813.7 ± 0.6285
850
840
830
820
810
800
790
780

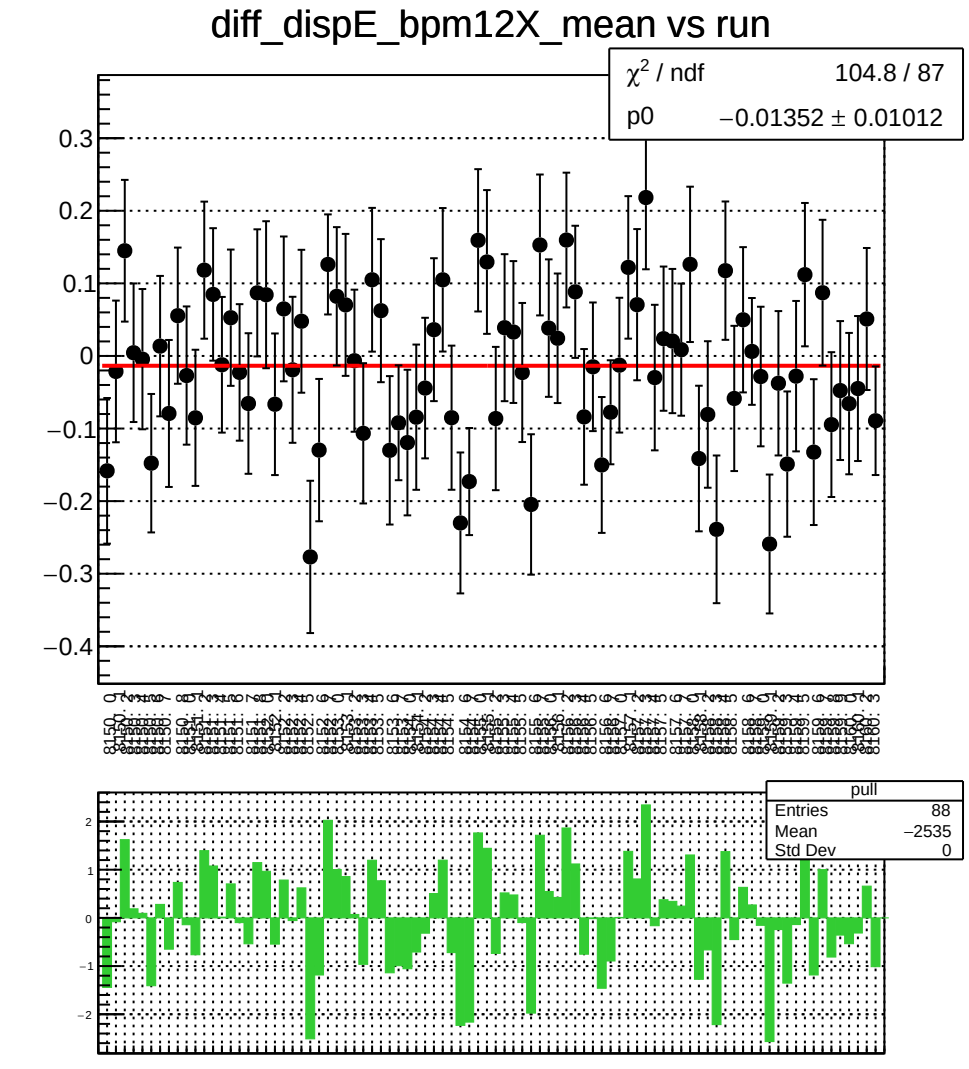

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 79.05 / 87
p0 5.639 ± 6.296
200
100
0
−100
−200
pull
Entries 88
Mean −243.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.008873
Std Dev 0.9477
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

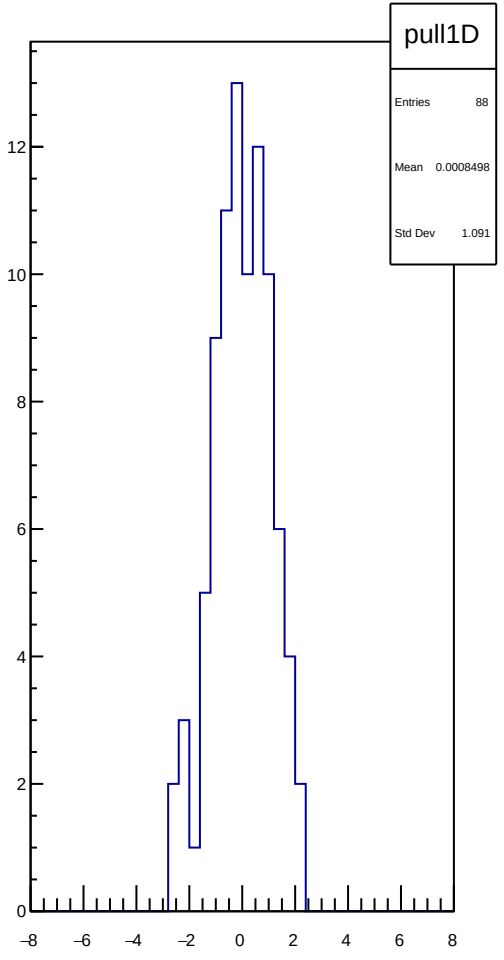

diff_bpm_4eY_4ecY_avg_rms vs run
χ^2 / ndf 6446 / 87
p0 5753 ± 4.452
7000
6500
6000
5500
5000

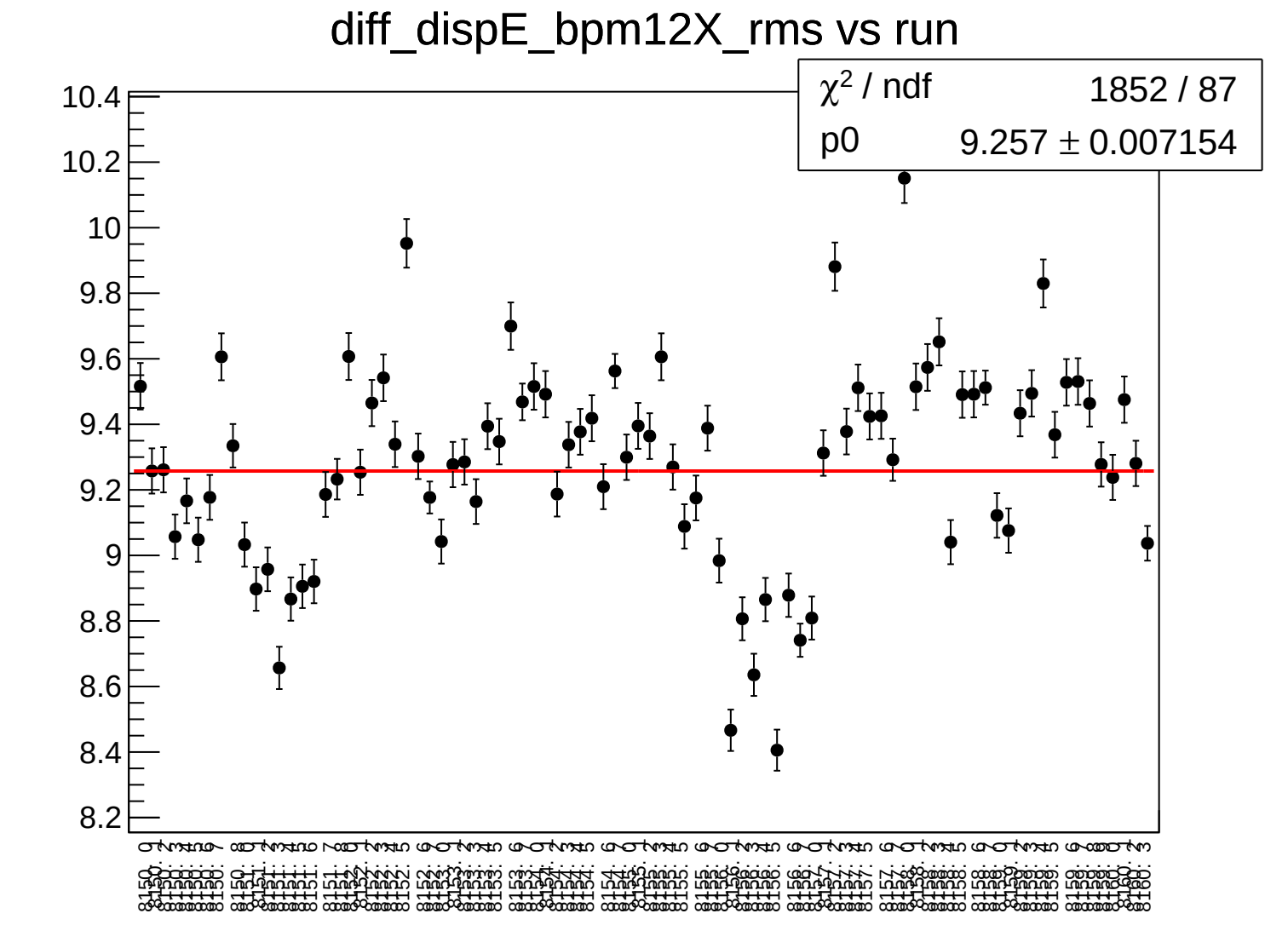

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 90.9 / 87
p0 −0.01356 ± 0.8084
pull
Entries 88
Mean 185.6
Std Dev 0

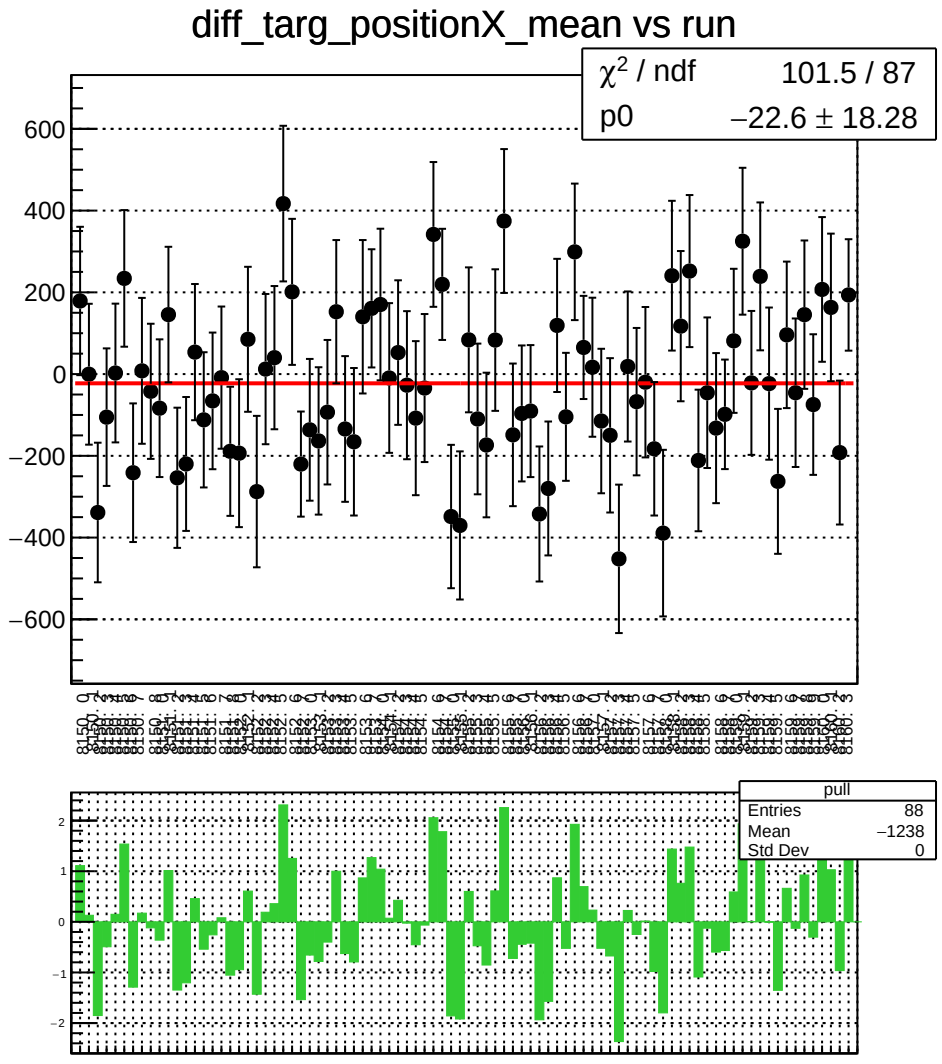

pull1D
Entries 88
Mean −0.007516
Std Dev 1.016

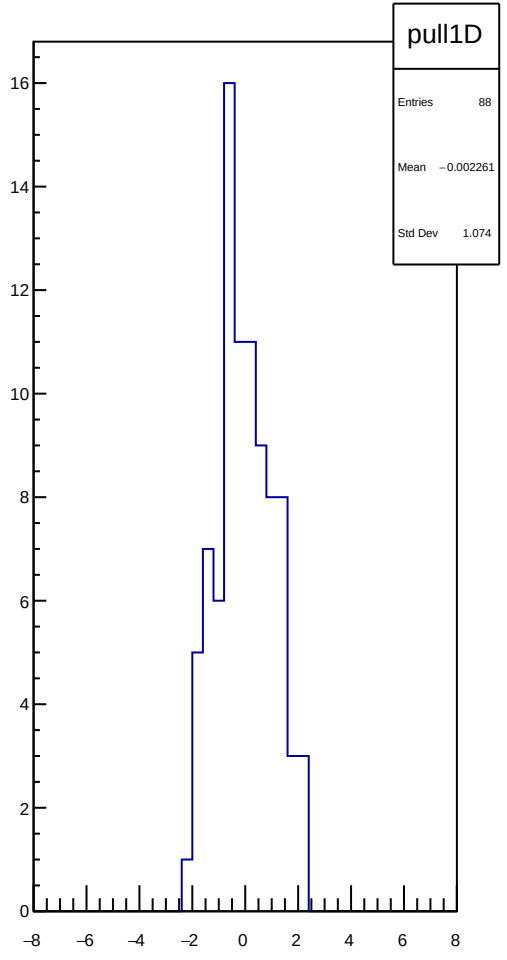

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 352.8 / 87
p0 740 ± 0.5716
780
770
760
750
740
730
720
710

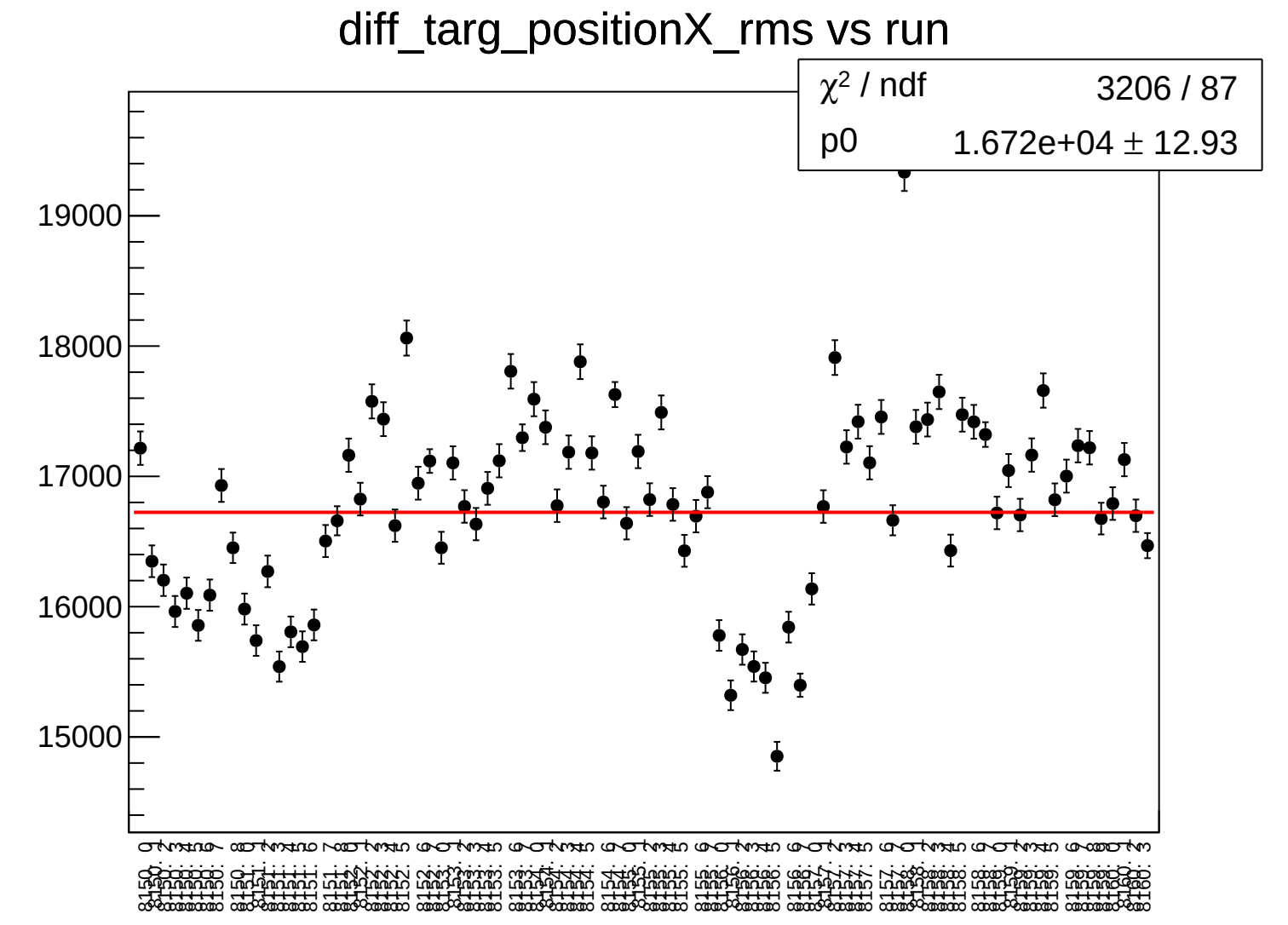

diff_dispE_bpm12X_mean vs run
χ² / ndf 104.8 / 87
p0 −0.01352 ± 0.01012
pull
Entries 88
Mean −2535
Std Dev 0

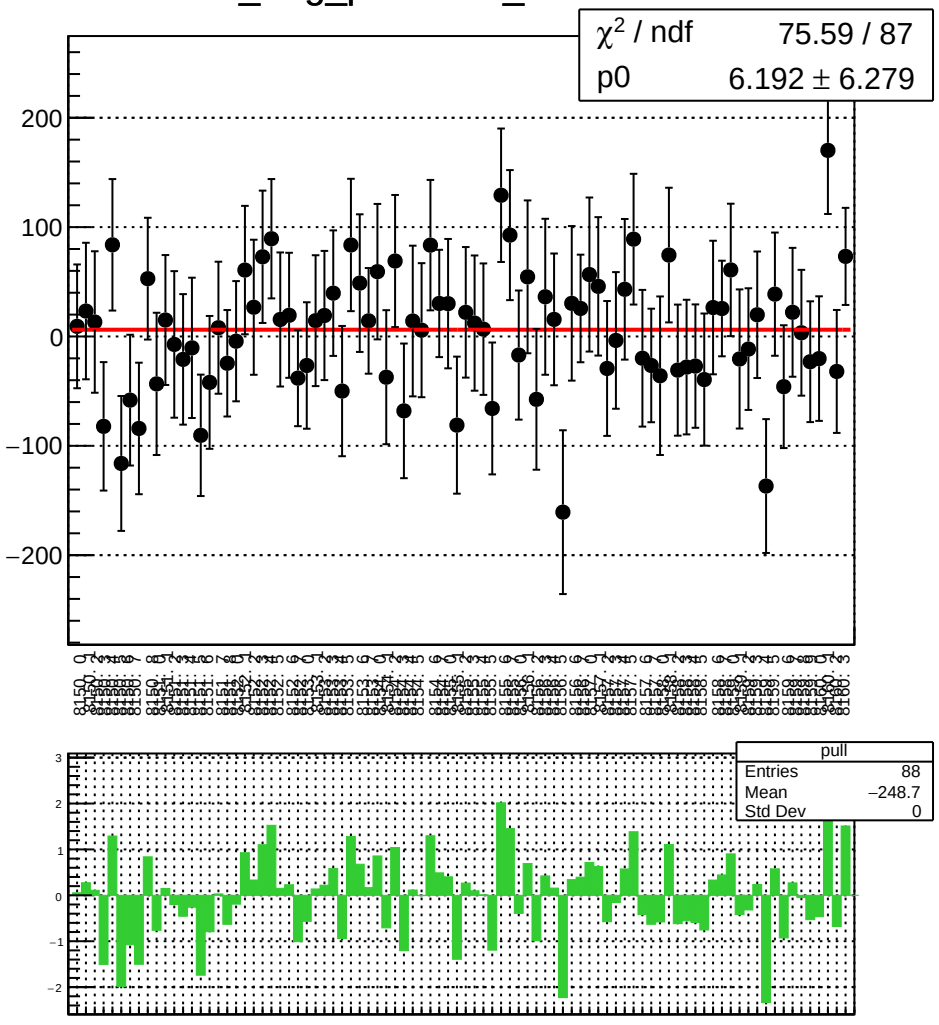

pull1D
Entries 88
Mean 0.0008498
Std Dev 1.091

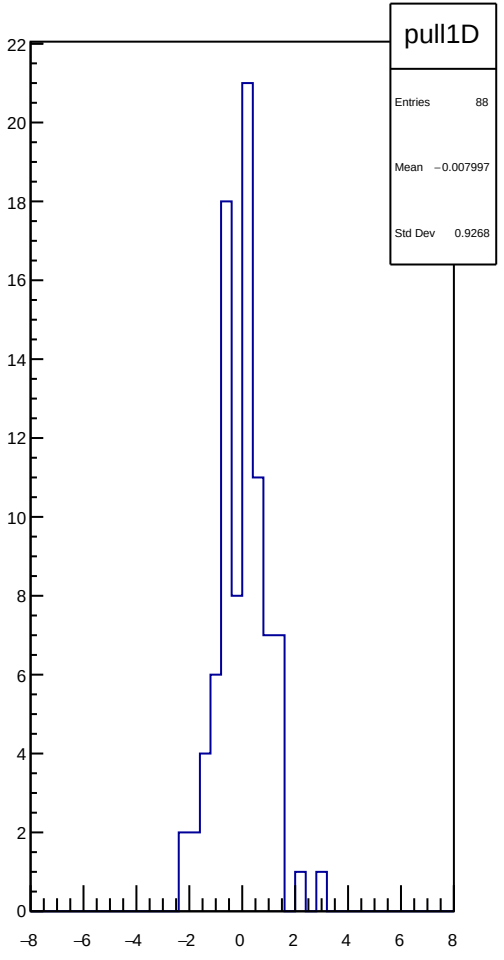

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 1852 / 87
p0 9.257 ± 0.007154
10.4
10.2
10
9.8
9.6
9.4
9.2
9
8.8
8.6
8.4
8.2

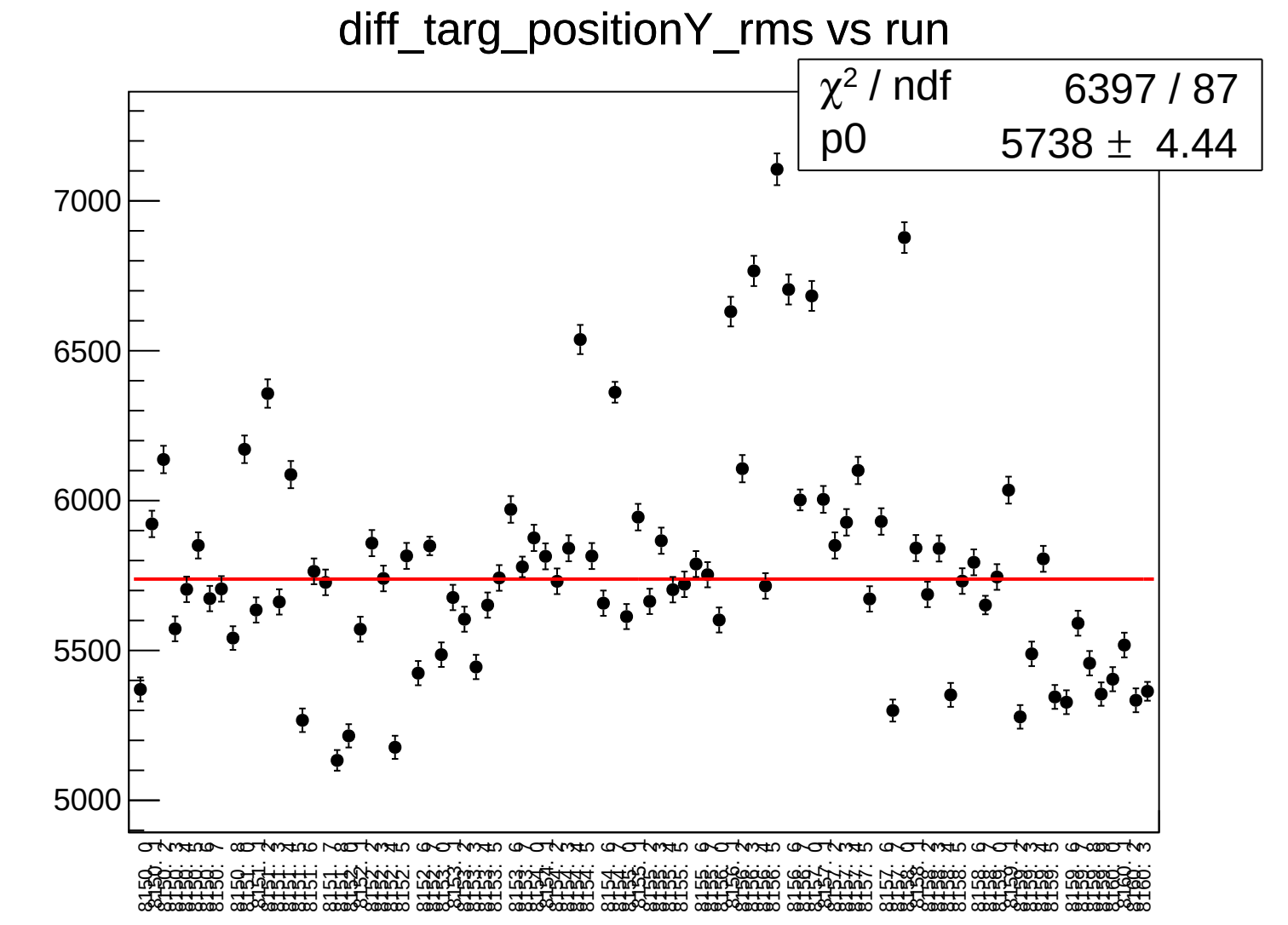

diff_targ_positionX_mean vs run
χ² / ndf 101.5 / 87
p0 −22.6 ± 18.28
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean −1238
Std Dev 0
2
1
0
−1
−2

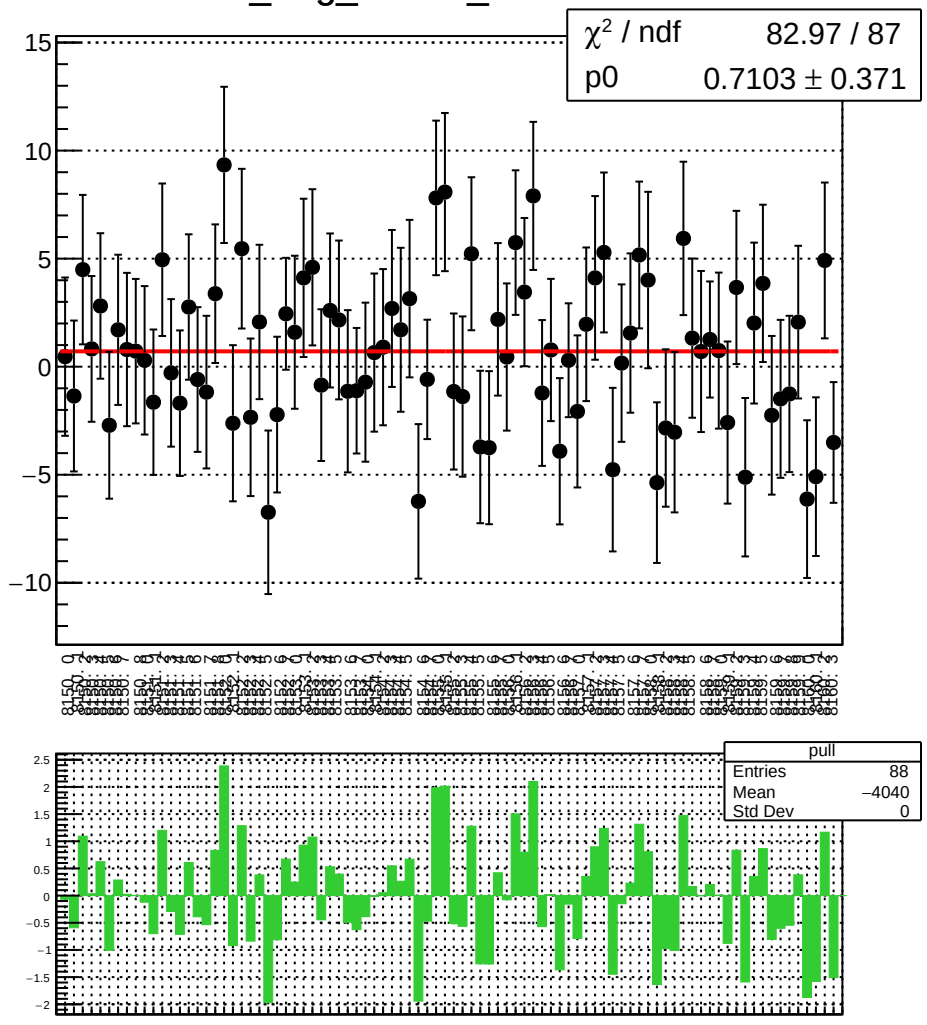

pull1D
Entries 88
Mean −0.002261
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

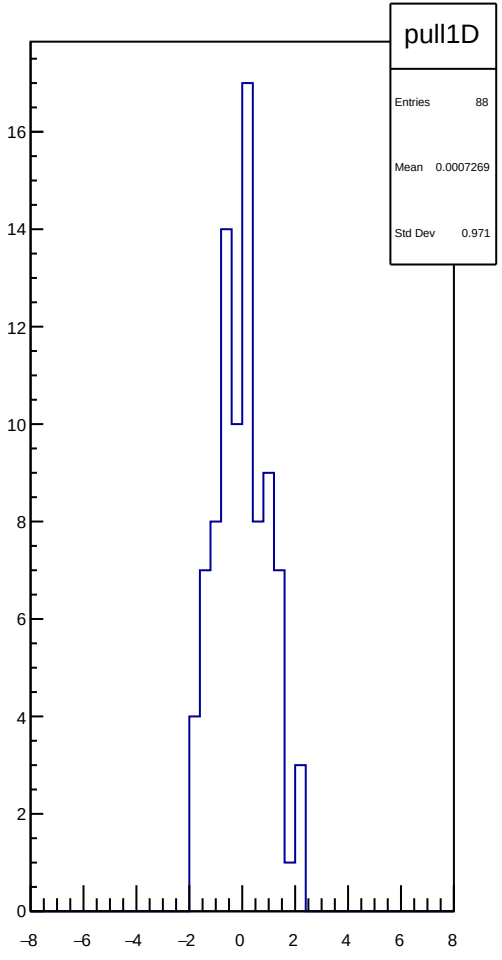

diff_targ_positionX_rms vs run
χ² / ndf 3206 / 87
p0 1.672e+04 ± 12.93
19000
18000
17000
16000
15000

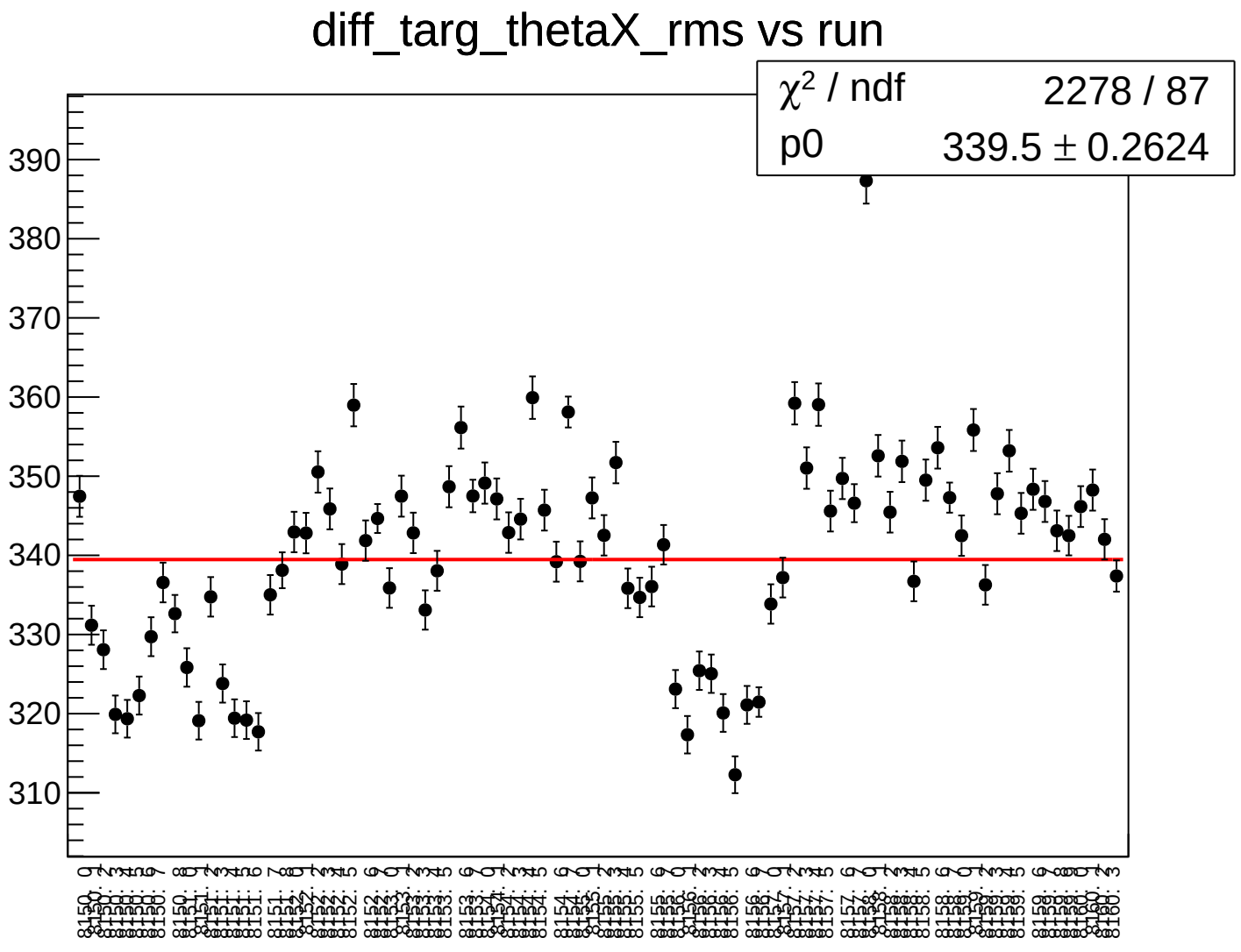

diff_targ_positionY_mean vs run
χ² / ndf 75.59 / 87
p0 6.192 ± 6.279
200
100
0
−100
−200
pull
Entries 88
Mean −248.7
Std Dev 0
3
2
1
0
−1
−2

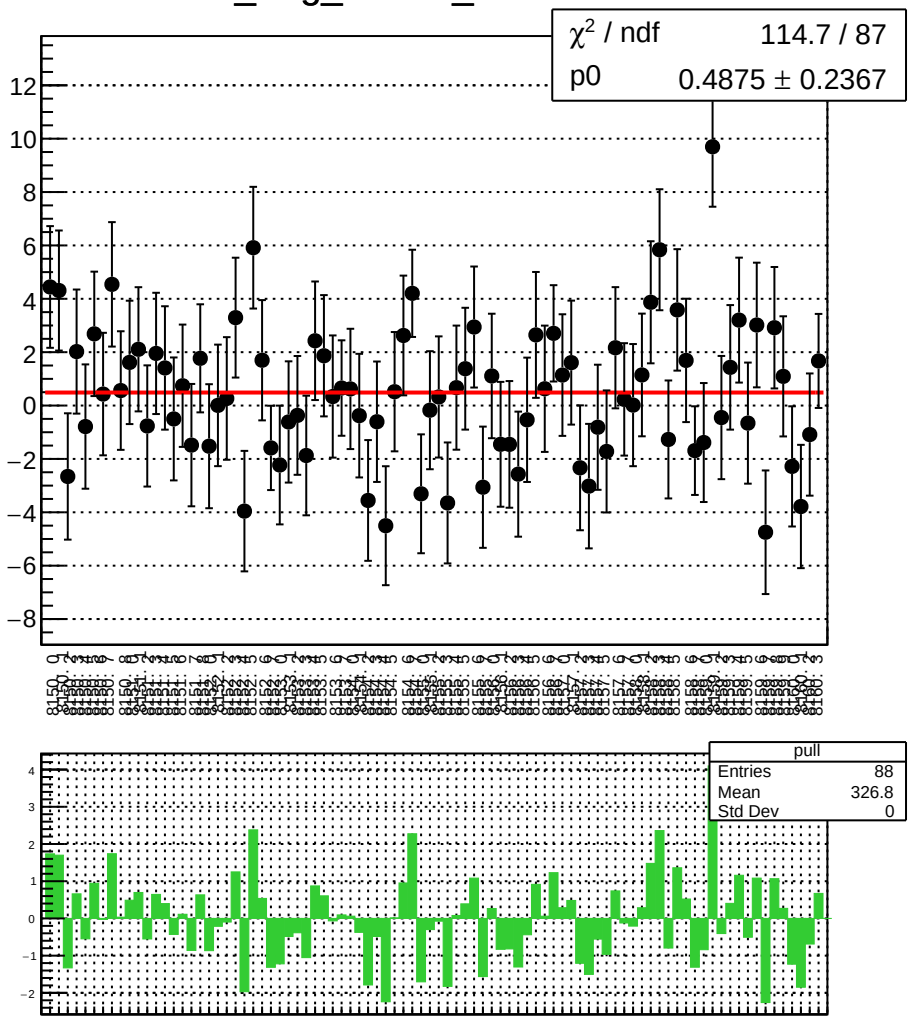

pull1D
Entries 88
Mean −0.007997
Std Dev 0.9268
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

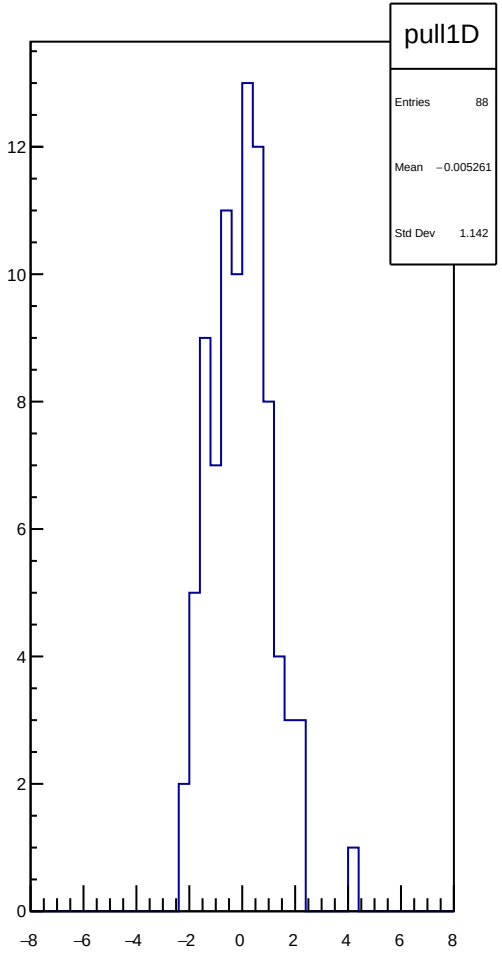

diff_targ_positionY_rms vs run
χ² / ndf 6397 / 87
p0 5738 ± 4.44
7000
6500
6000
5500
5000

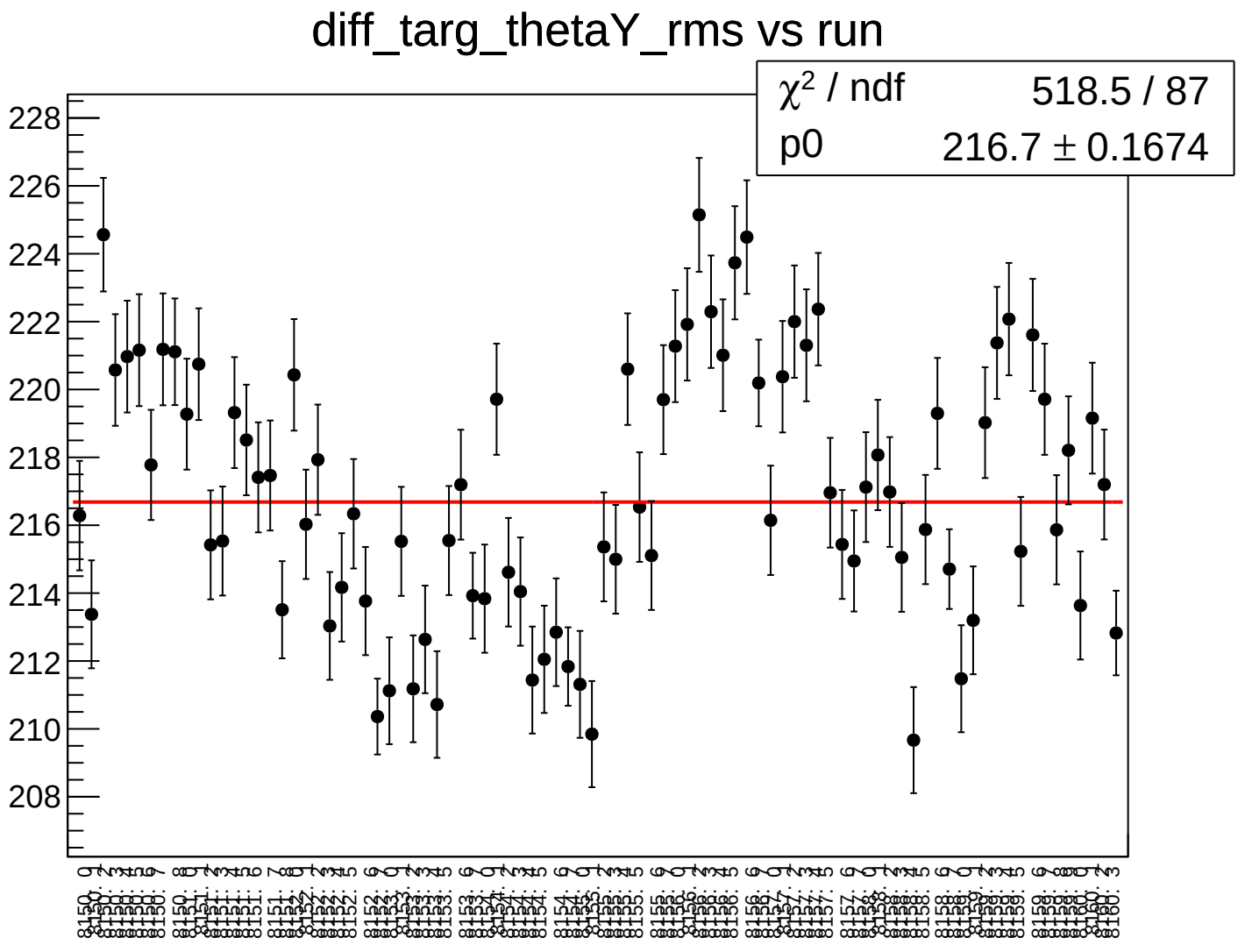

diff_targ_thetaX_mean vs run
χ^2 / ndf 82.97 / 87
p0 0.7103 ± 0.371
pull
Entries 88
Mean −4040
Std Dev 0

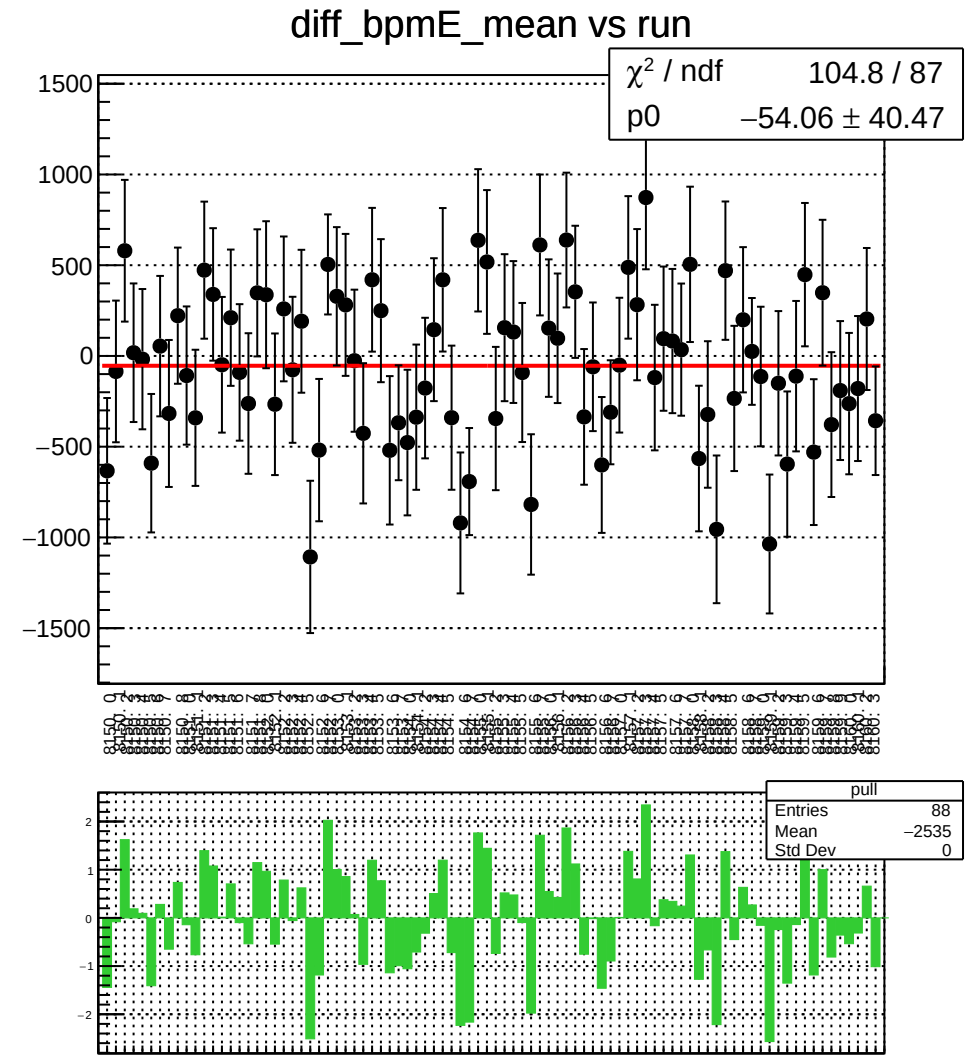

pull1D
Entries 88
Mean 0.0007269
Std Dev 0.971

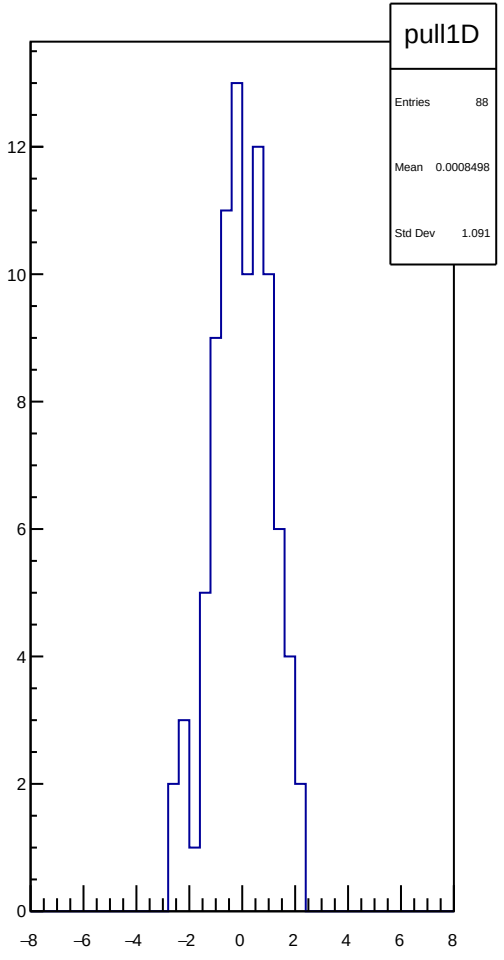

diff_targ_thetaX_rms vs run
χ² / ndf 2278 / 87
p0 339.5 ± 0.2624
390
380
370
360
350
340
330
320
310

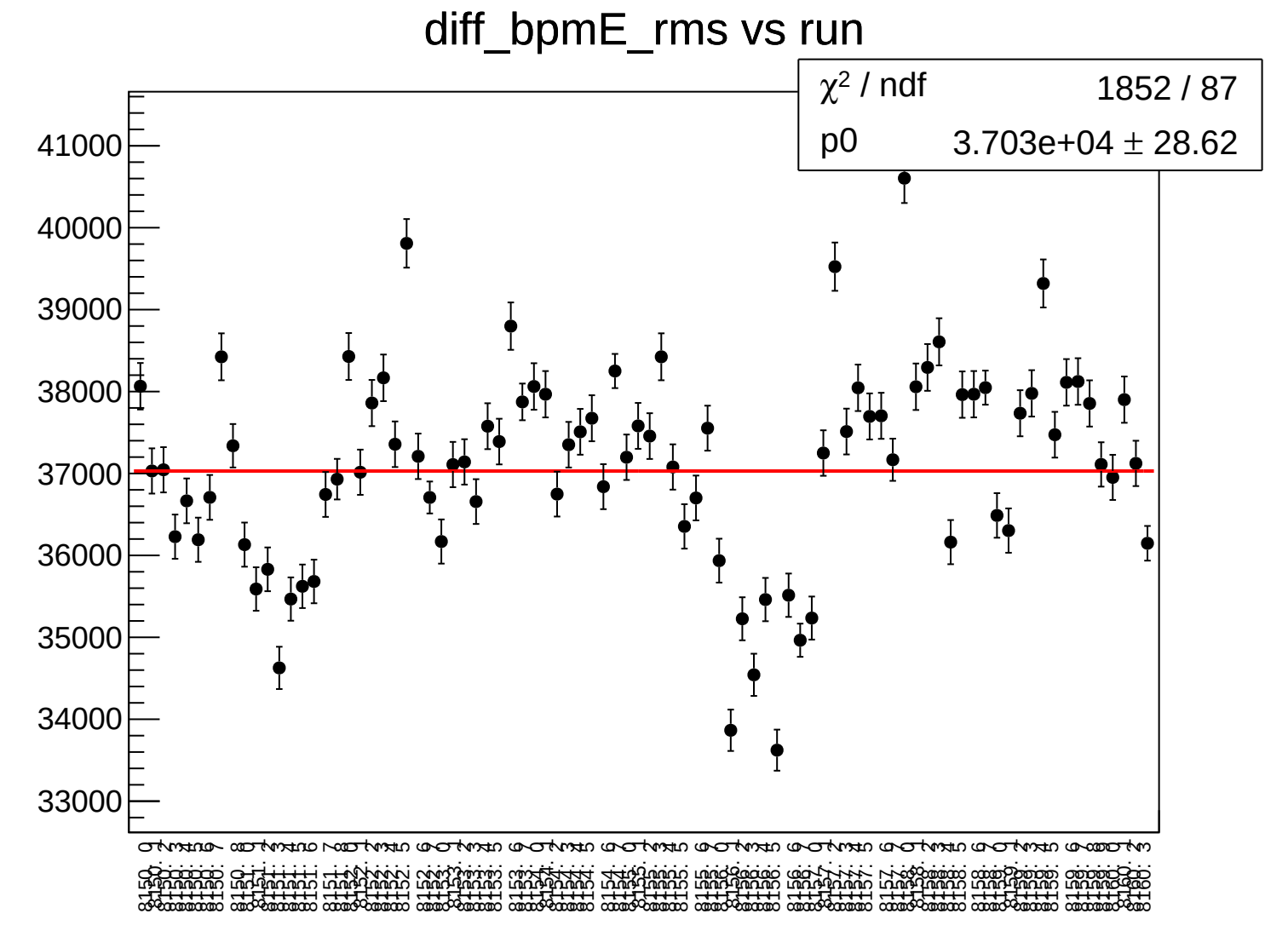

diff_targ_thetaY_mean vs run
χ² / ndf 114.7 / 87
p0 0.4875 ± 0.2367
pull
Entries 88
Mean 326.8
Std Dev 0

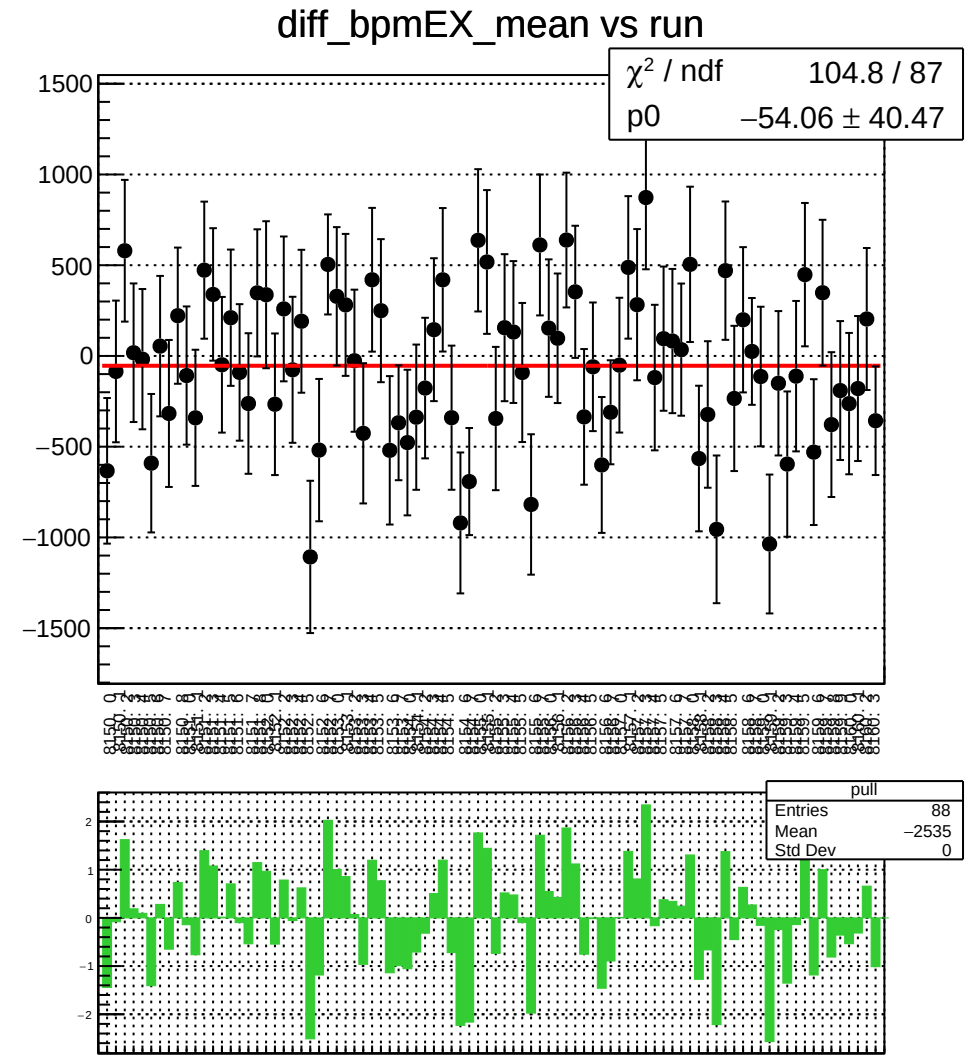

pull1D
Entries 88
Mean −0.005261
Std Dev 1.142

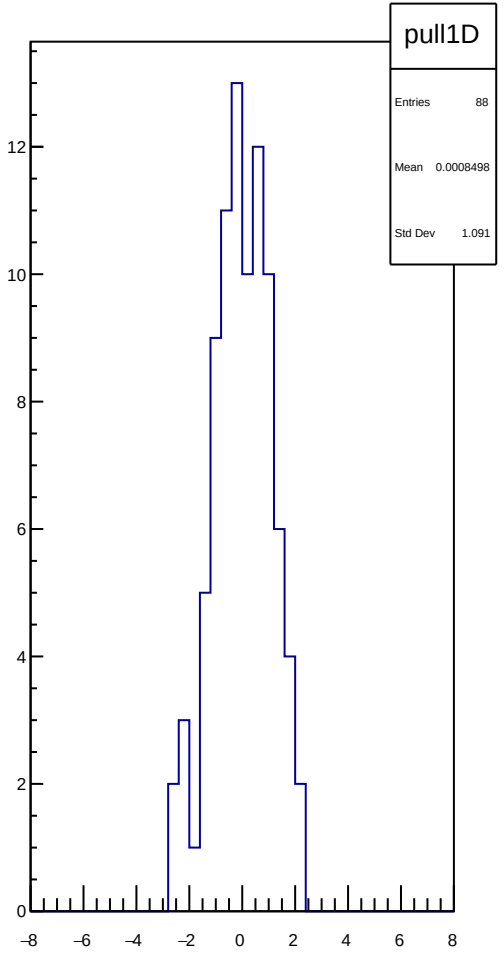

diff_targ_thetaY_rms vs run
χ² / ndf 518.5 / 87
p0 216.7 ± 0.1674
228
226
224
222
220
218
216
214
212
210
208

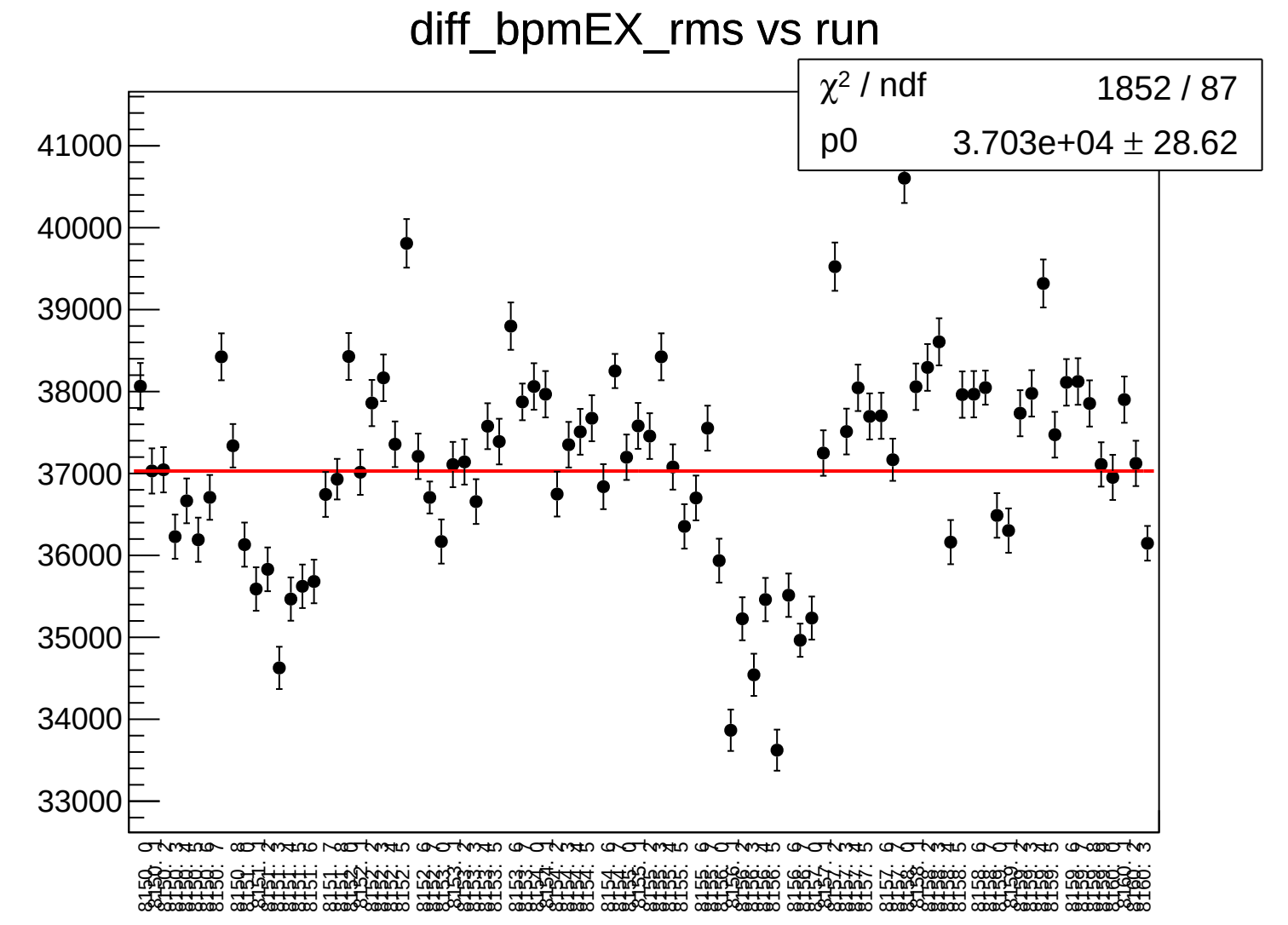

diff_bpmE_mean vs run
χ² / ndf 104.8 / 87
p0 −54.06 ± 40.47
pull
Entries 88
Mean −2535
Std Dev 0

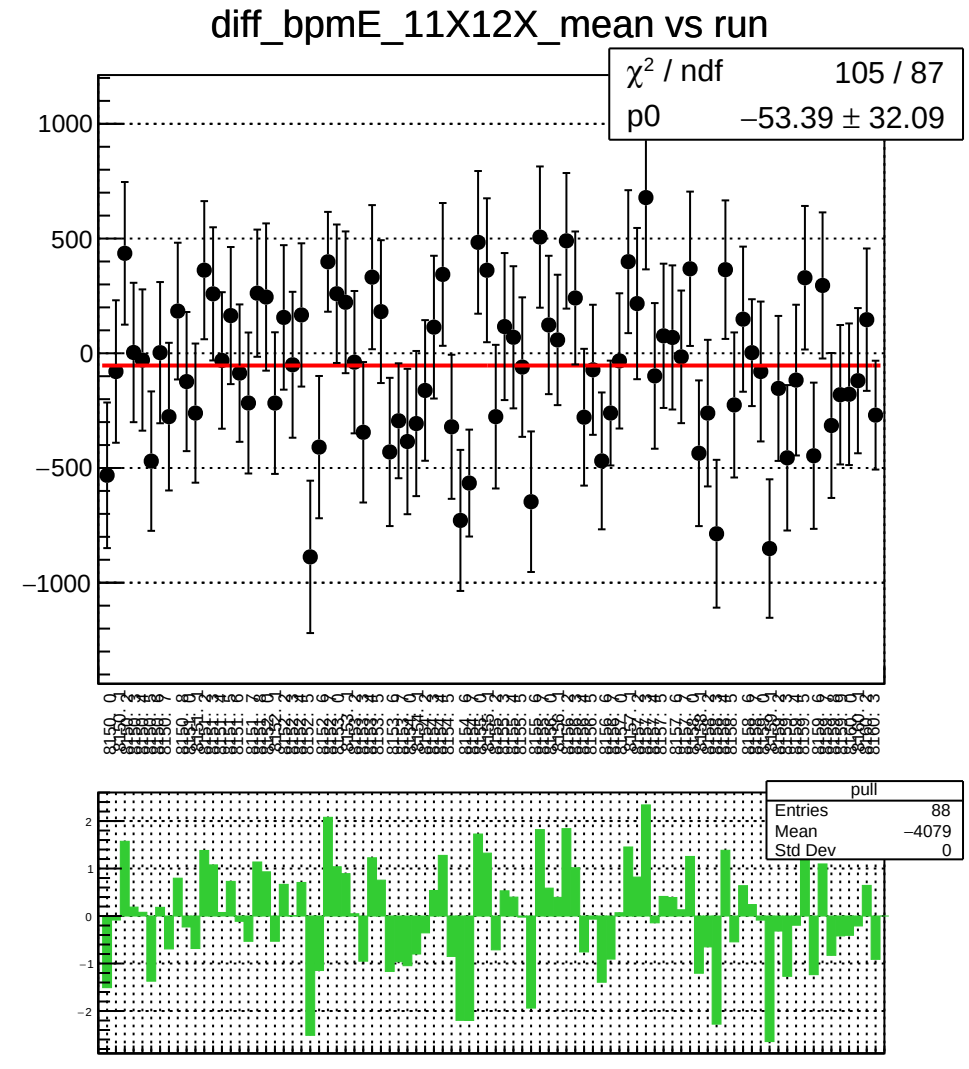

pull1D
Entries 88
Mean 0.0008498
Std Dev 1.091

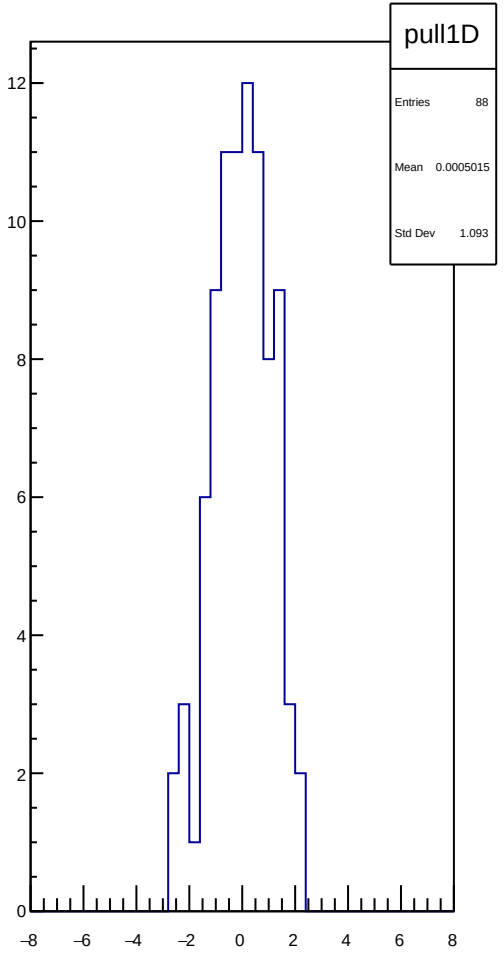

diff_bpmE_rms vs run
χ² / ndf 1852 / 87
p0 3.703e+04 ± 28.62
41000
40000
39000
38000
37000
36000
35000
34000
33000

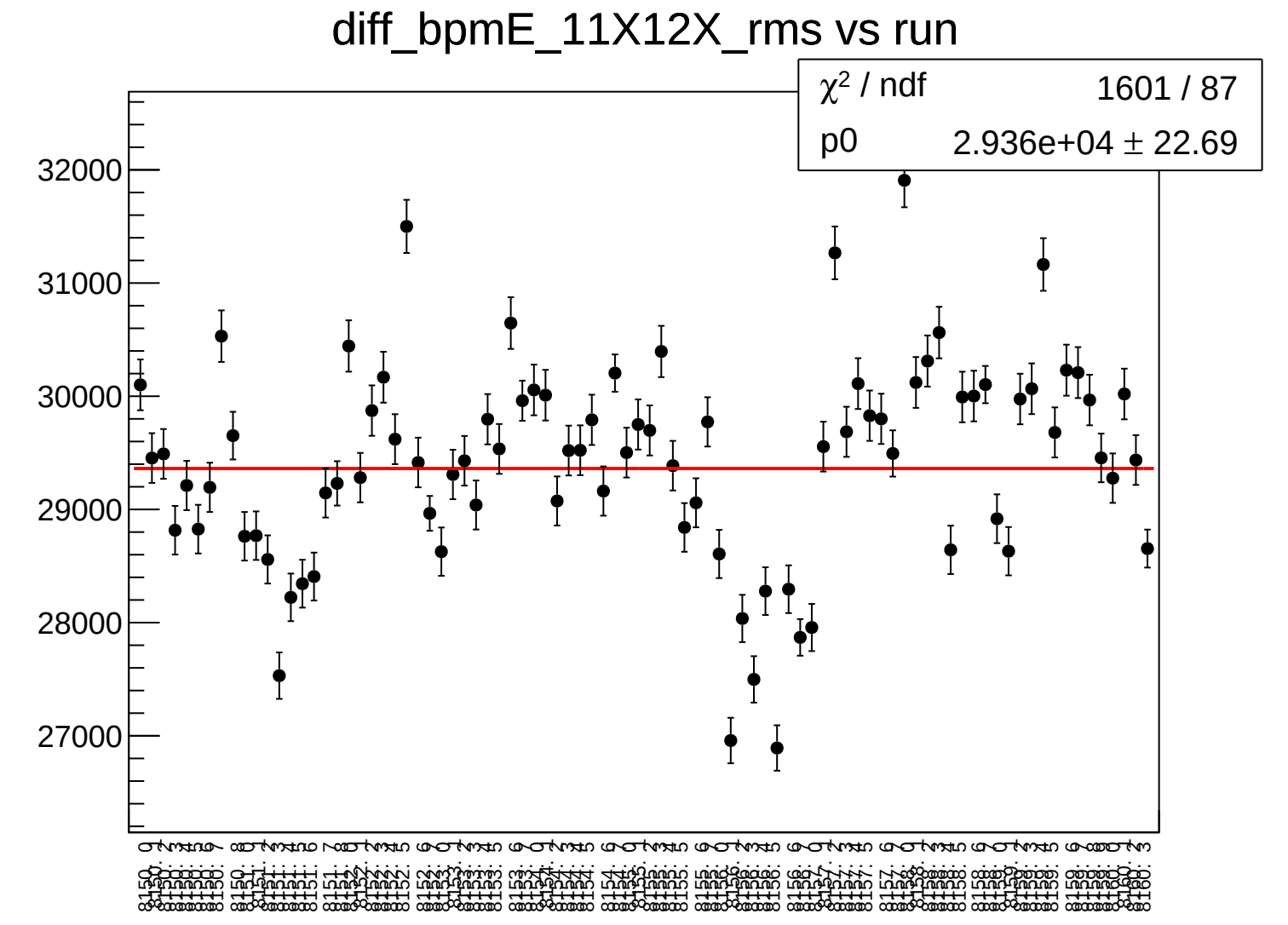

diff_bpmEX_mean vs run
χ² / ndf 104.8 / 87
p0 −54.06 ± 40.47
pull
Entries 88
Mean −2535
Std Dev 0

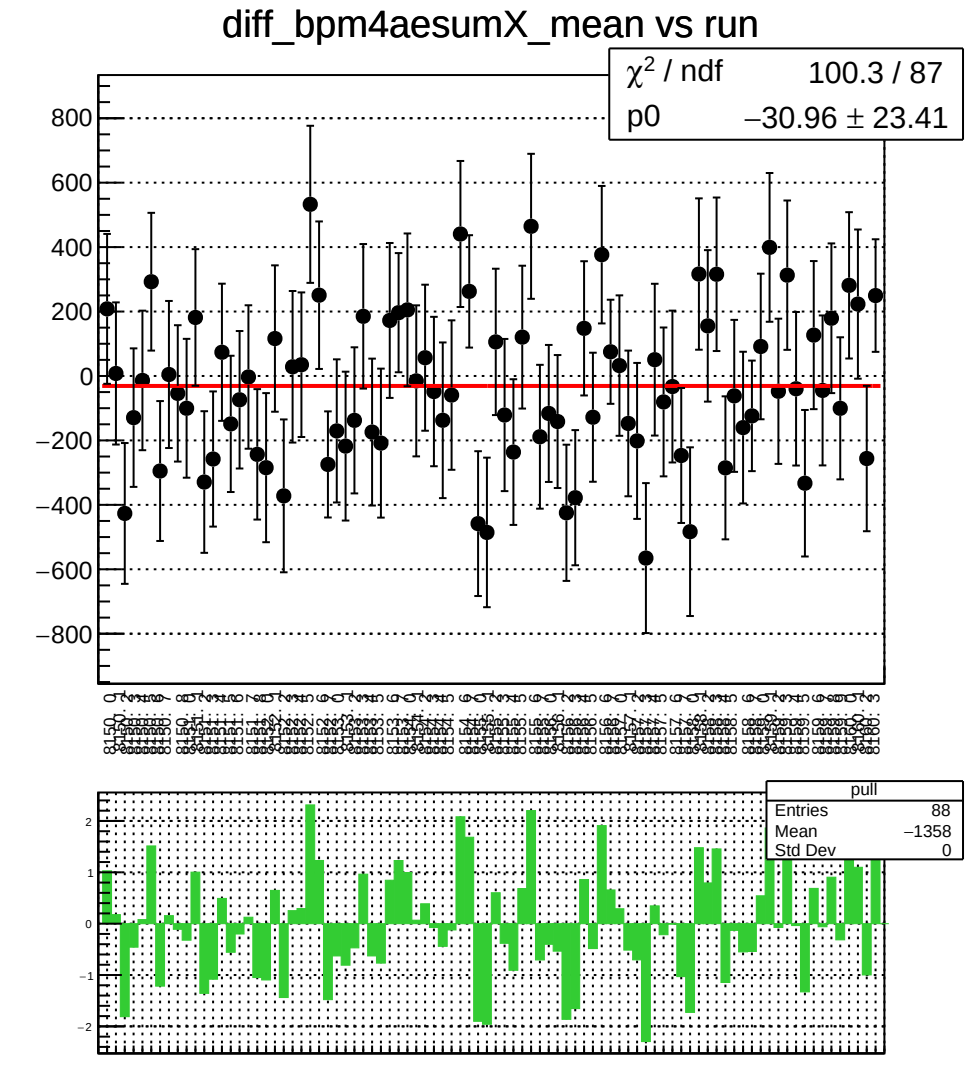

pull1D
Entries 88
Mean 0.0008498
Std Dev 1.091

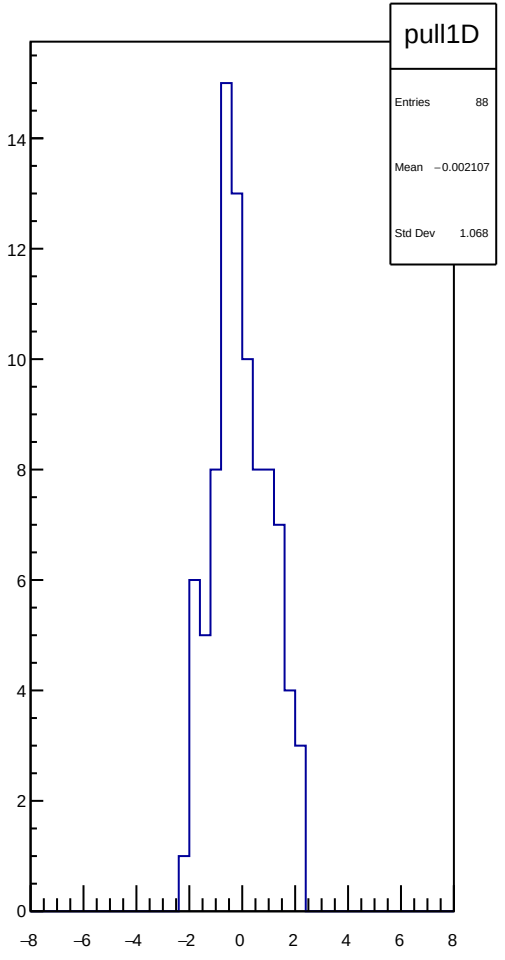

diff_bpmEX_rms vs run
χ² / ndf 1852 / 87
p0 3.703e+04 ± 28.62
41000
40000
39000
38000
37000
36000
35000
34000
33000

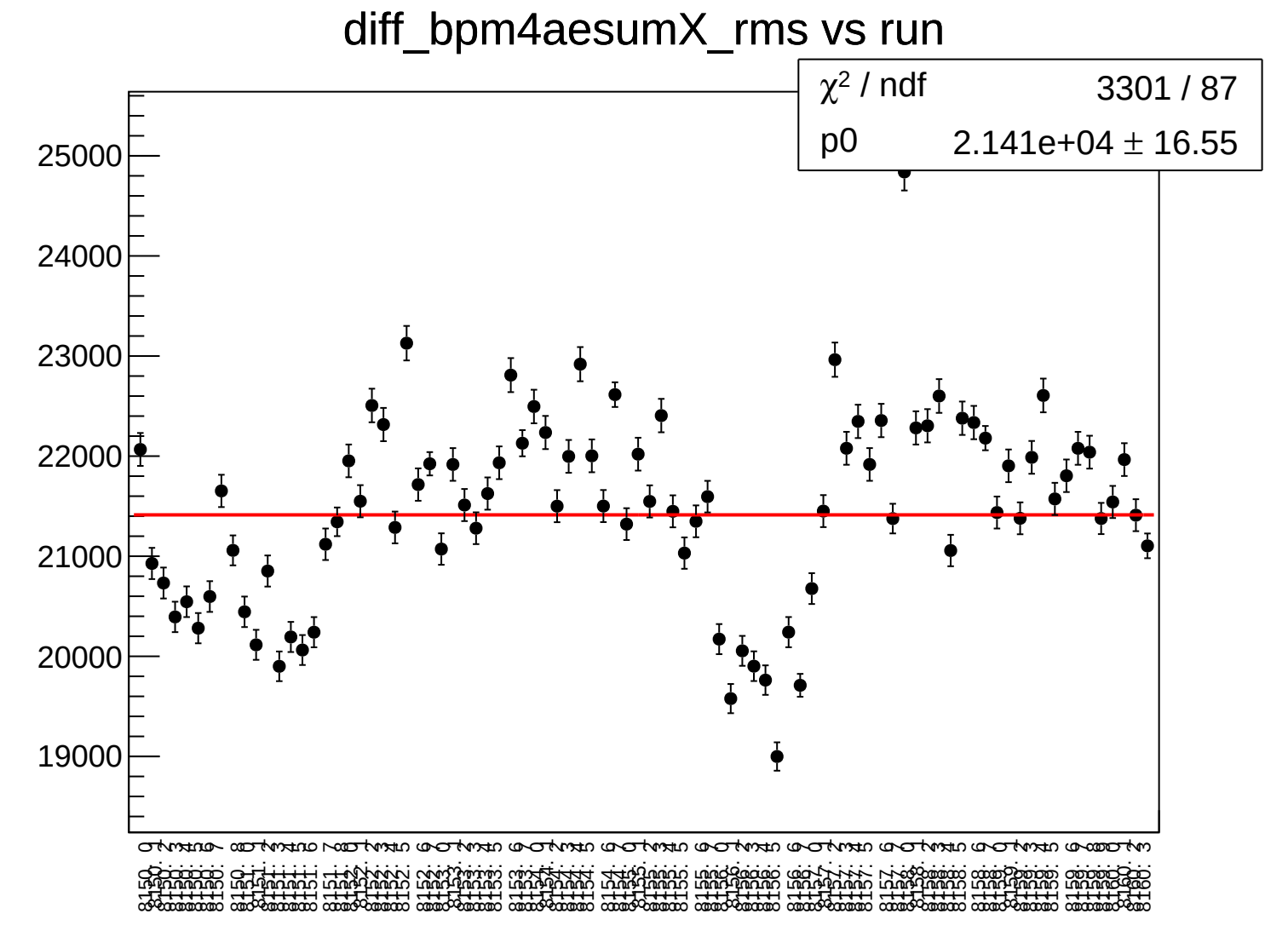

diff_bpmE_11X12X_mean vs run
χ² / ndf 105 / 87
p0 −53.39 ± 32.09
1000
500
0
−500
−1000
pull
Entries 88
Mean −4079
Std Dev 0
2
1
0
−1
−2

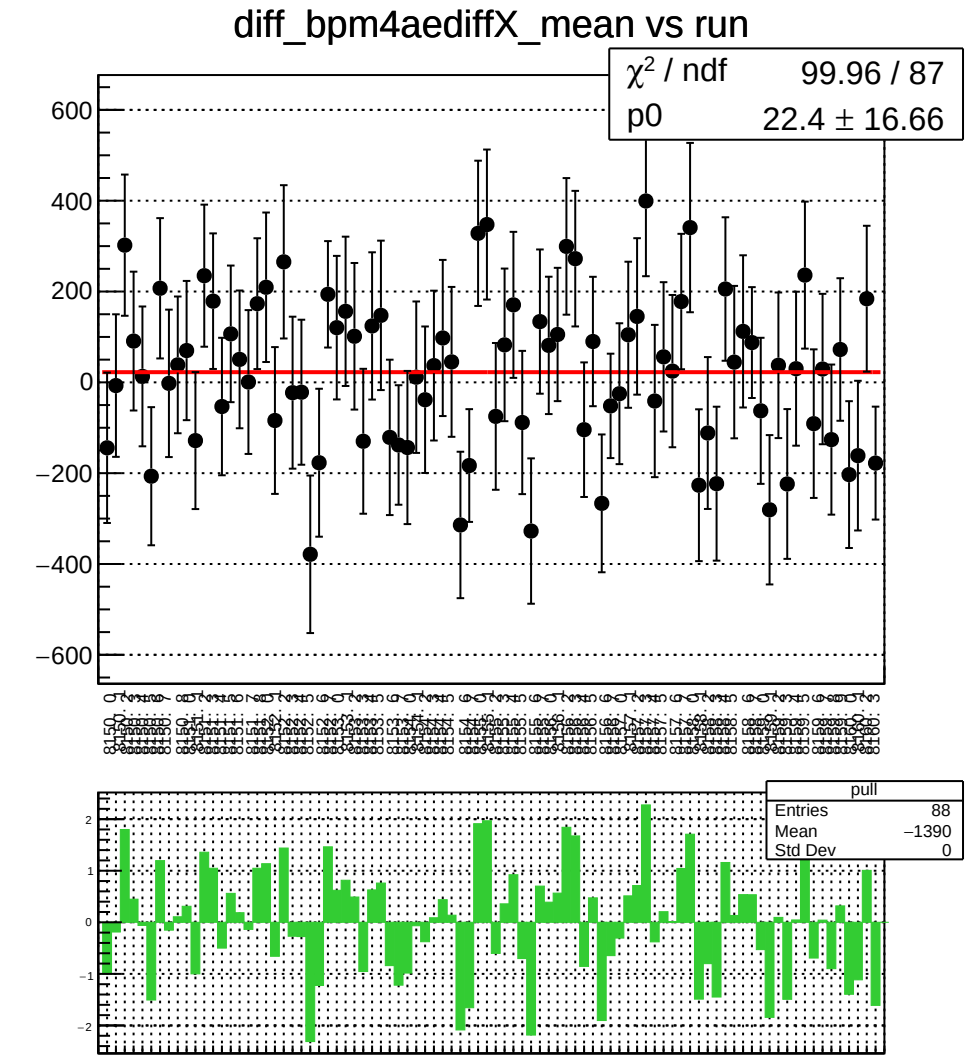

pull1D
Entries 88
Mean 0.0005015
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

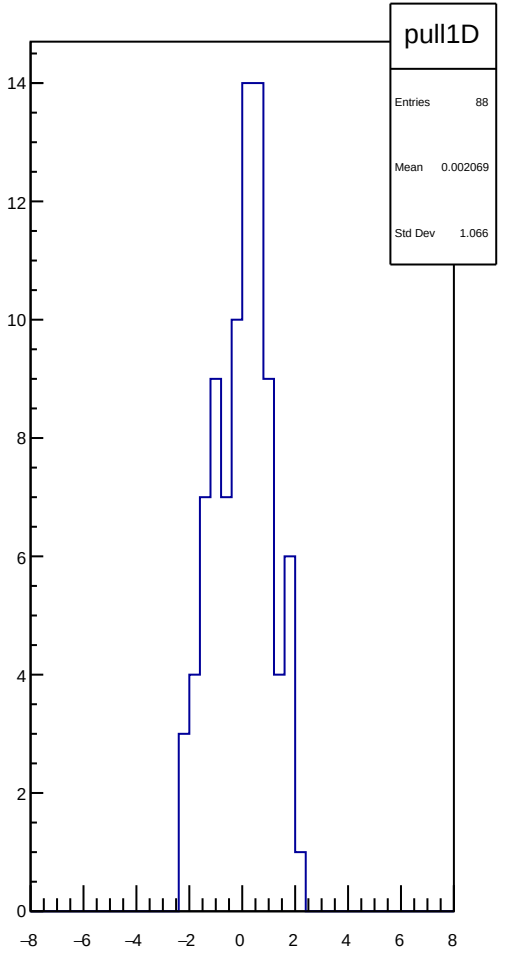

diff_bpmE_11X12X_rms vs run
χ² / ndf 1601 / 87
p0 2.936e+04 ± 22.69
32000
31000
30000
29000
28000
27000

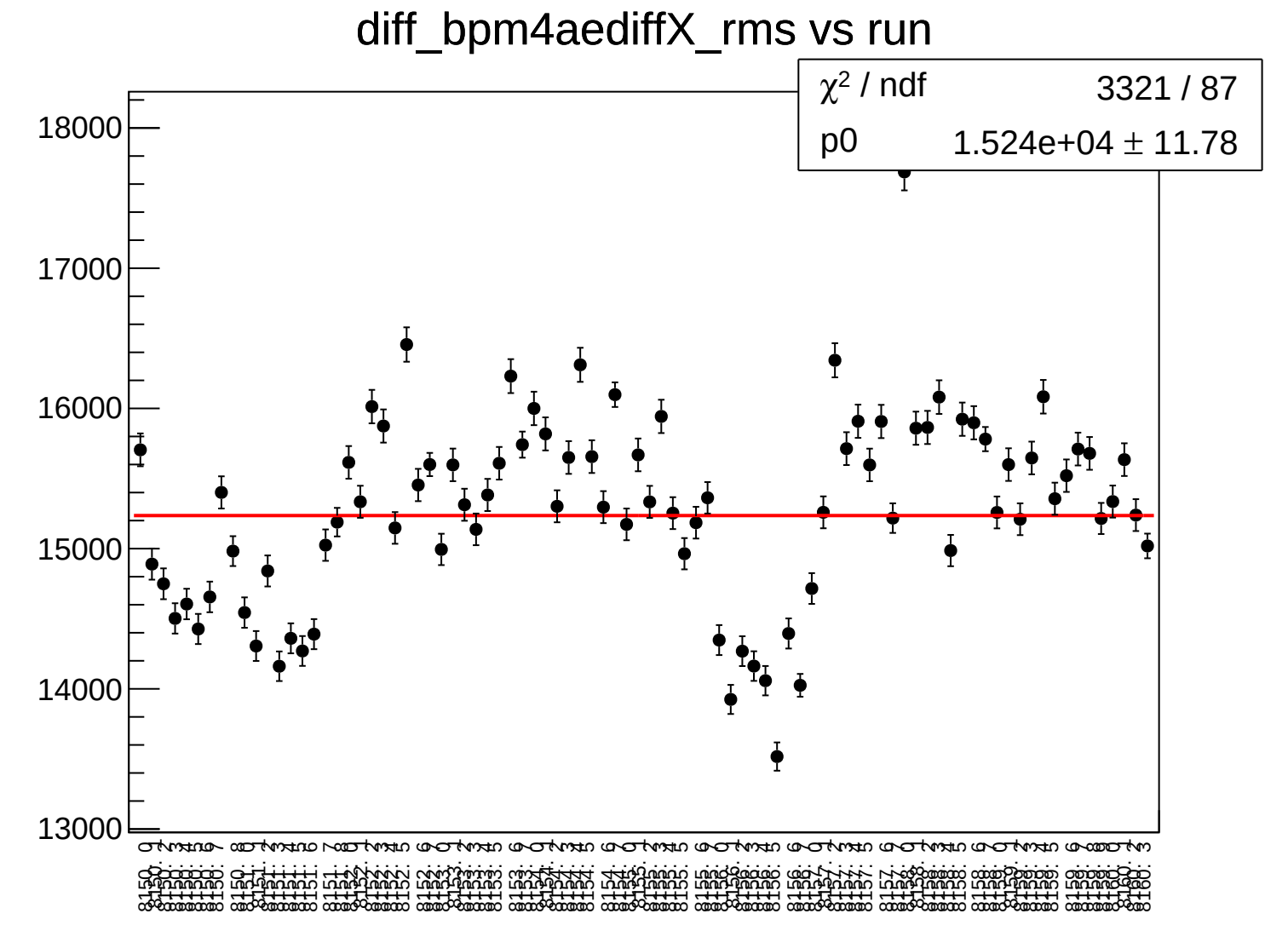

diff_bpm4aesumX_mean vs run
χ² / ndf 100.3 / 87
p0 −30.96 ± 23.41
pull
Entries 88
Mean −1358
Std Dev 0

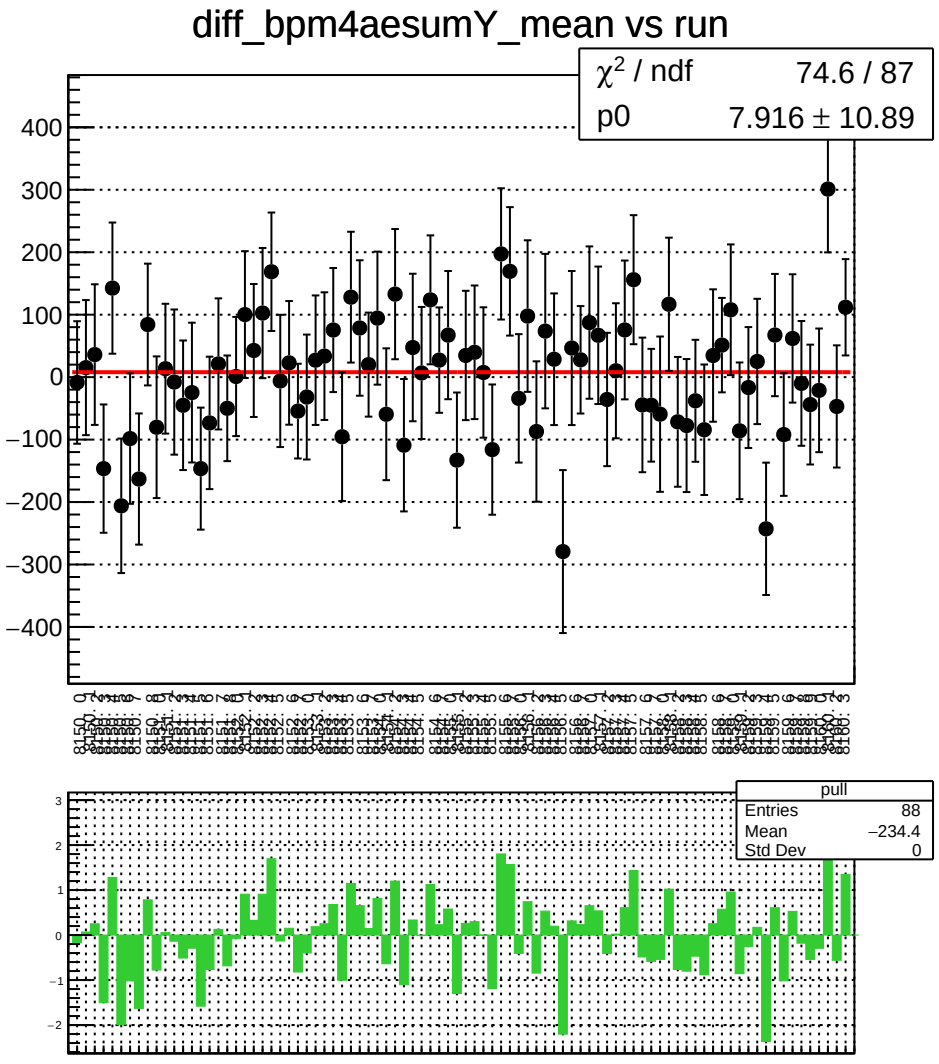

pull1D
Entries 88
Mean −0.002107
Std Dev 1.068

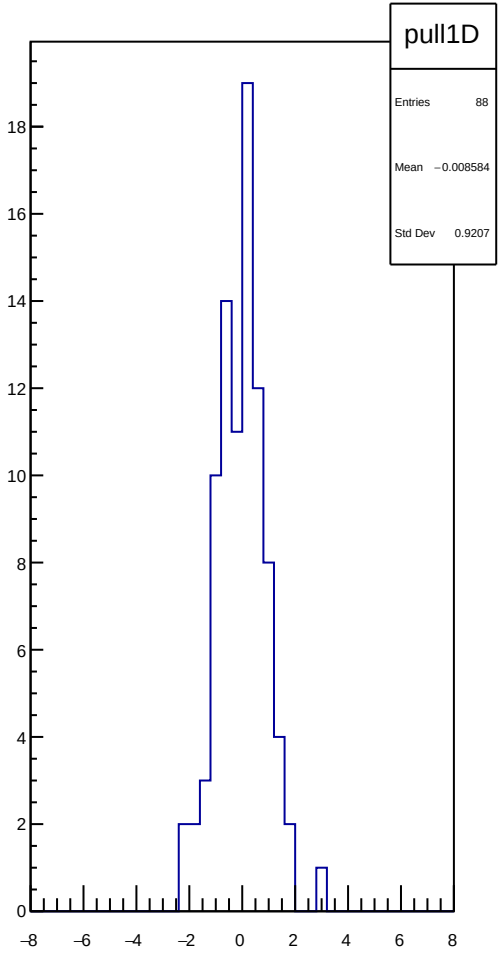

diff_bpm4aesumX_rms vs run
χ² / ndf 3301 / 87
p0 2.141e+04 ± 16.55
25000
24000
23000
22000
21000
20000
19000

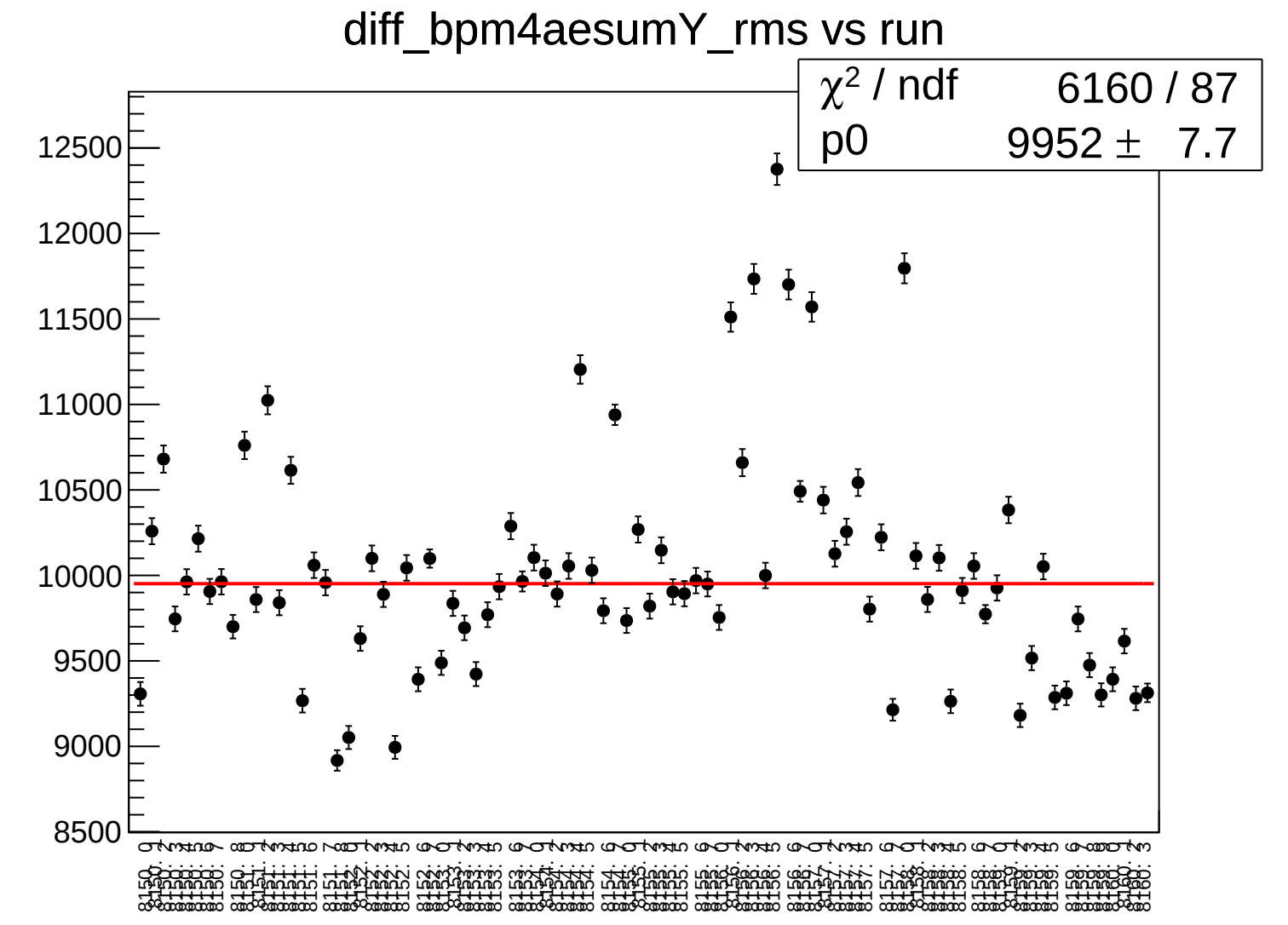

diff_bpm4aediffX_mean vs run
χ² / ndf 99.96 / 87
p0 22.4 ± 16.66
pull
Entries 88
Mean −1390
Std Dev 0

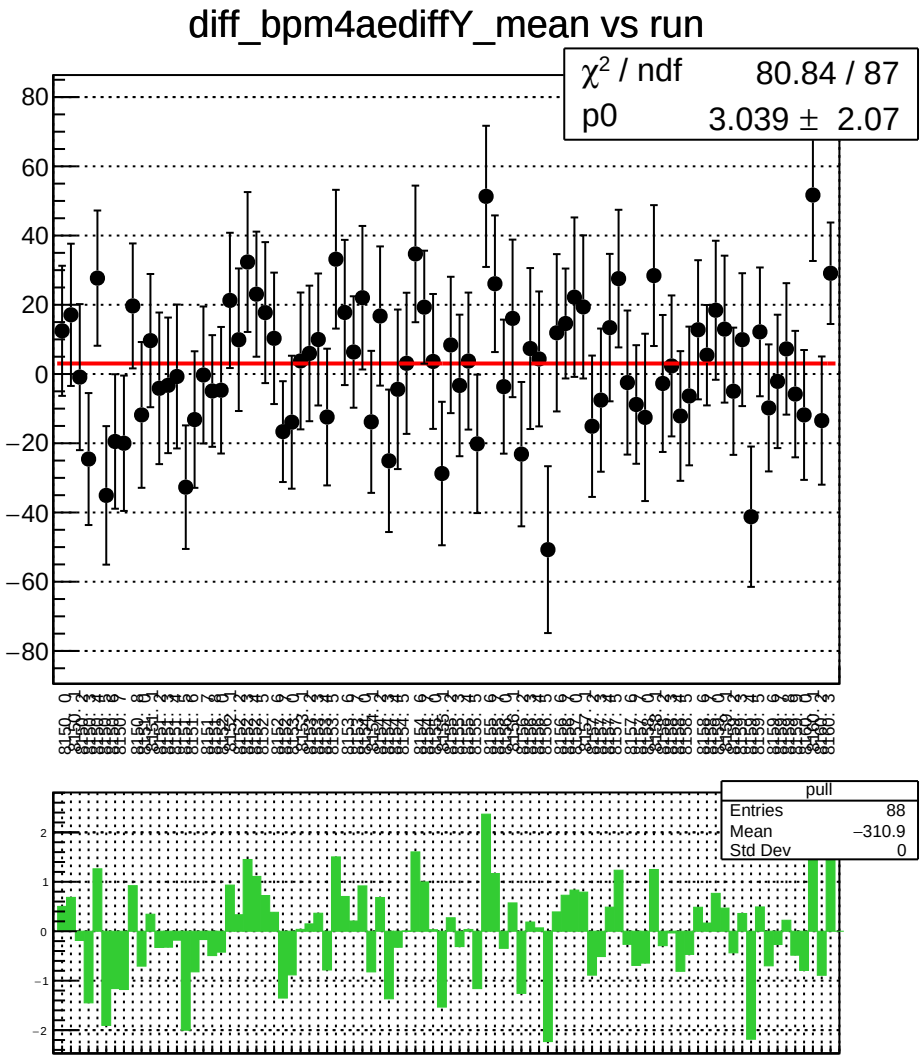

pull1D
Entries 88
Mean 0.002069
Std Dev 1.066

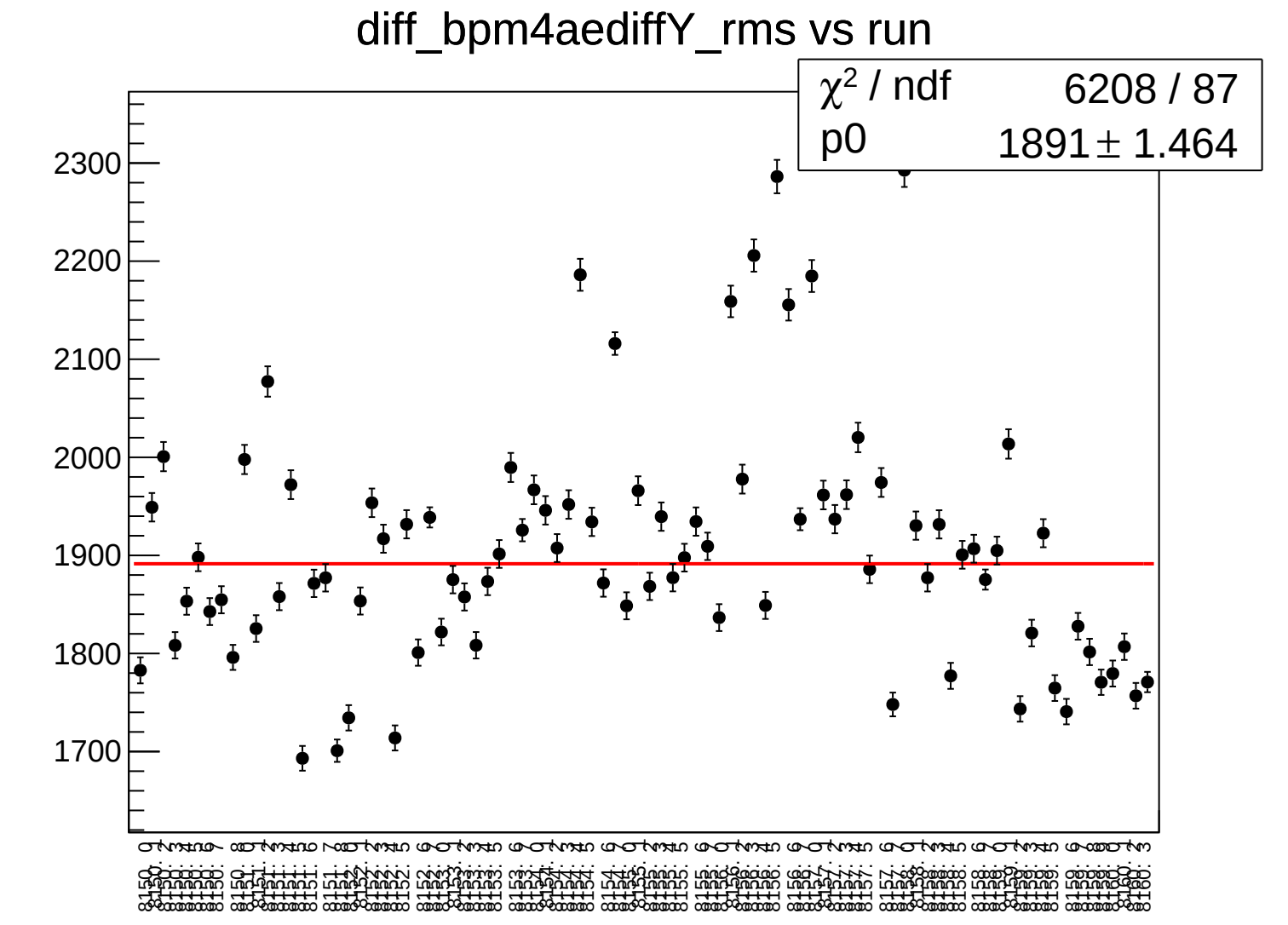

diff_bpm4aediffX_rms vs run
χ² / ndf 3321 / 87
p0 1.524e+04 ± 11.78
18000
17000
16000
15000
14000
13000

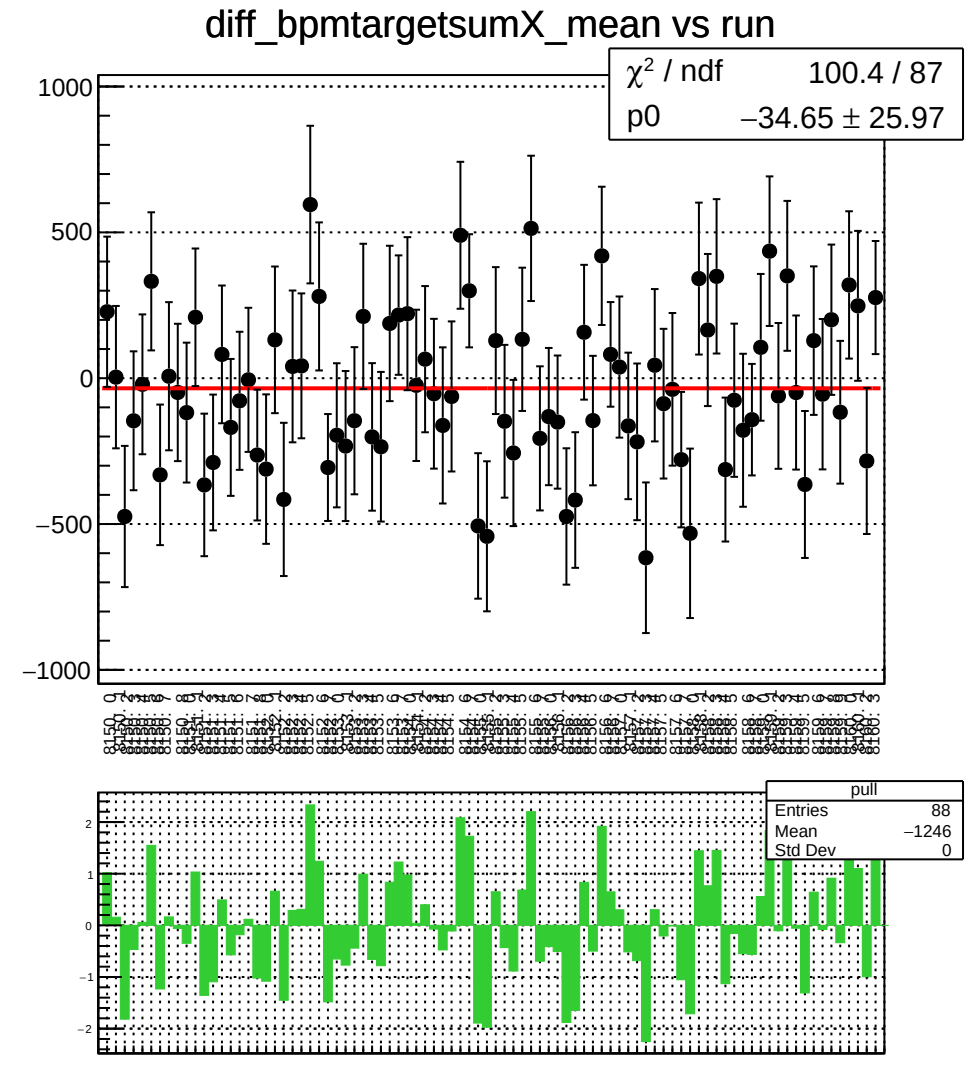

diff_bpm4aesumY_mean vs run
χ² / ndf 74.6 / 87
p0 7.916 ± 10.89
pull
Entries 88
Mean −234.4
Std Dev 0

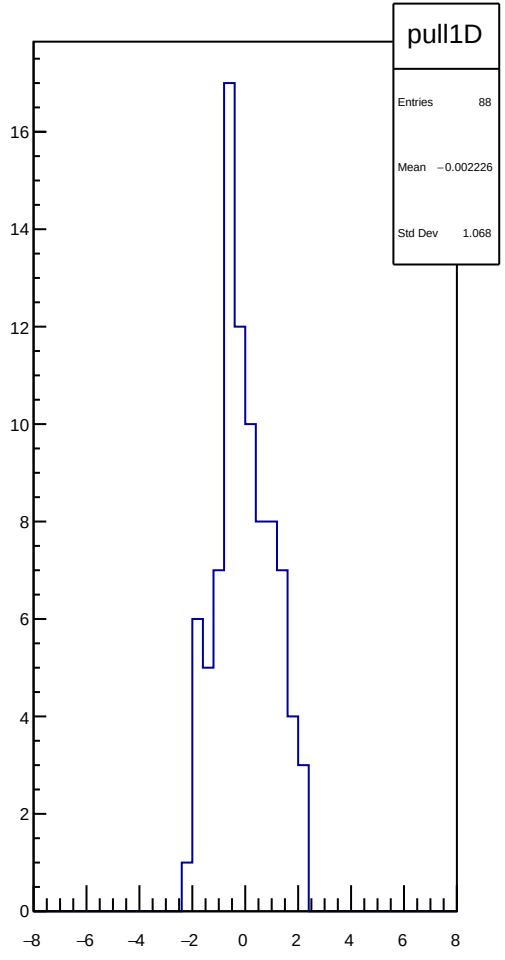

pull1D
Entries 88
Mean −0.008584
Std Dev 0.9207

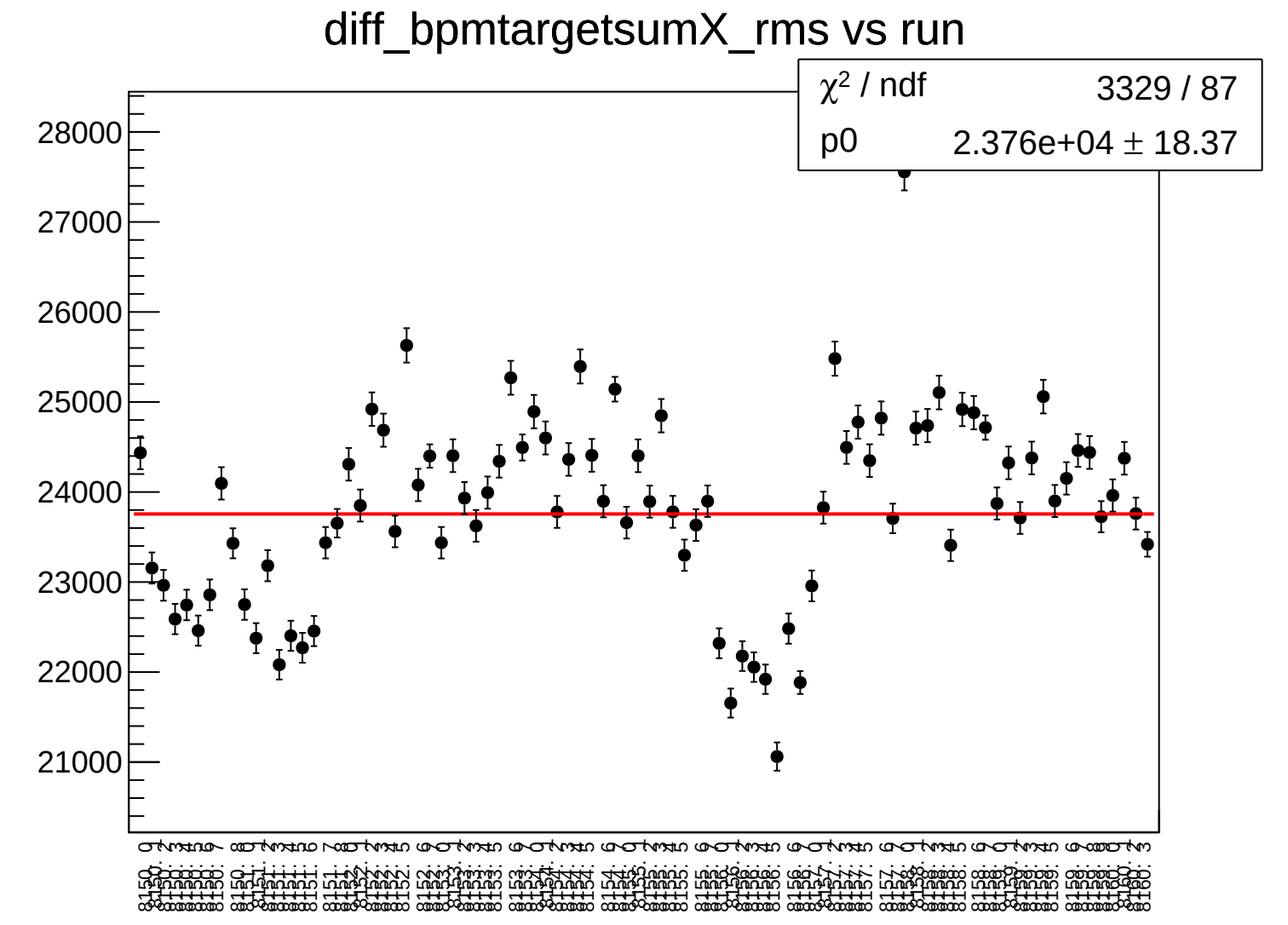

diff_bpm4aesumY_rms vs run
χ² / ndf 6160 / 87
p0 9952 ± 7.7
12500
12000
11500
11000
10500
10000
9500
9000
8500

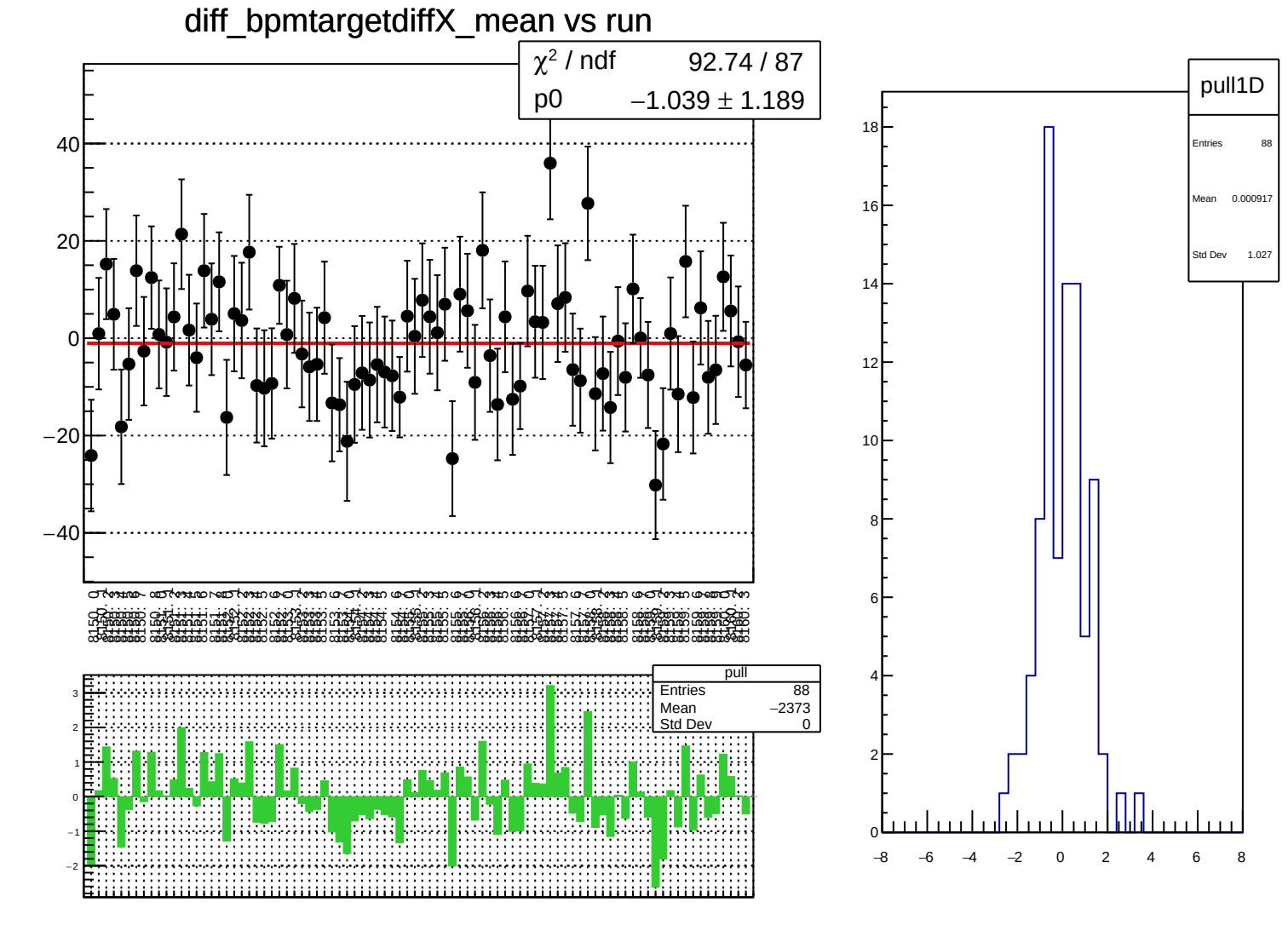

diff_bpm4aediffY_mean vs run
χ² / ndf 80.84 / 87
p0 3.039 ± 2.07
pull
Entries 88
Mean −310.9
Std Dev 0
pull1D
Entries 88
Mean −0.006057
Std Dev 0.9584

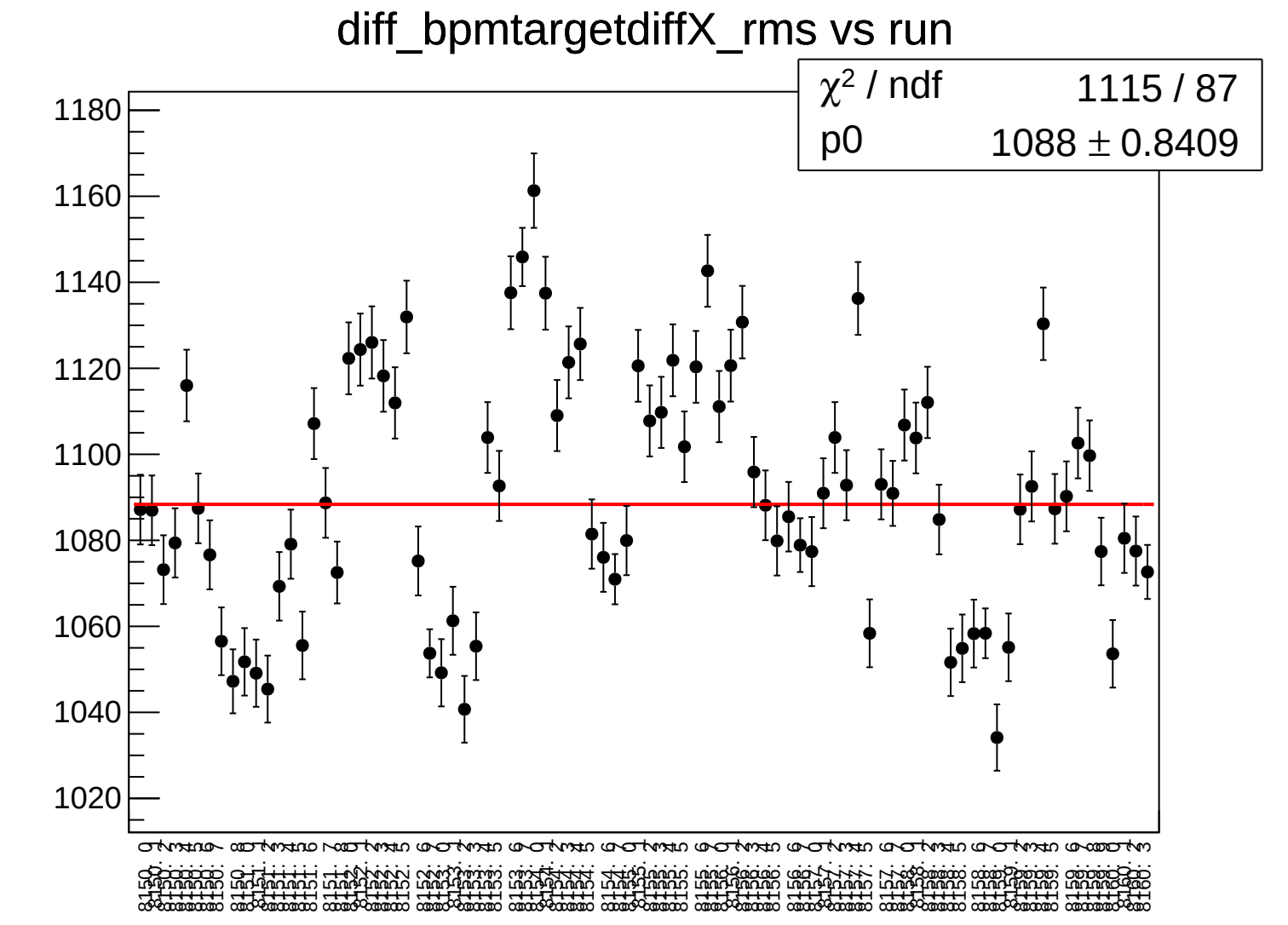

diff_bpm4aediffY_rms vs run
χ² / ndf 6208 / 87
p0 1891 ± 1.464
2300
2200
2100
2000
1900
1800
1700

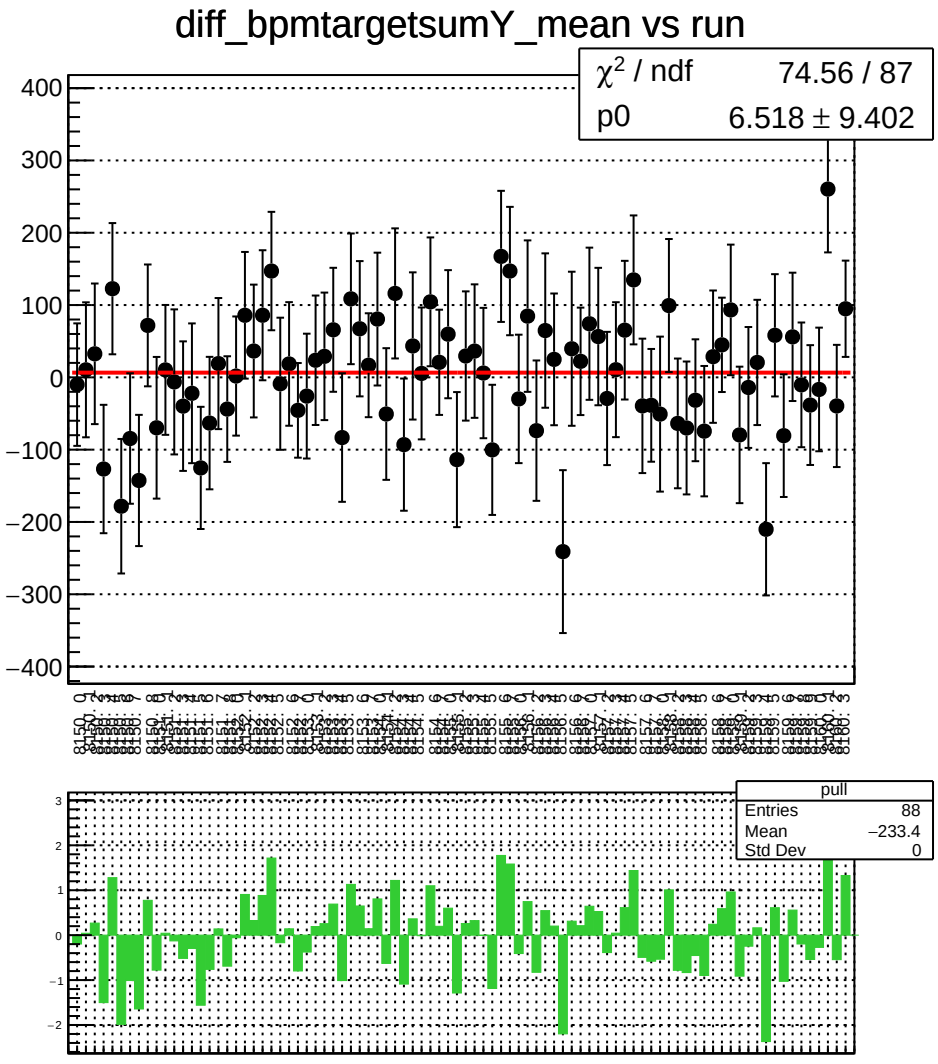

diff_bpmtargetsumX_mean vs run
χ² / ndf 100.4 / 87
p0 −34.65 ± 25.97
1000
500
0
−500
−1000
pull
Entries 88
Mean −1246
Std Dev 0
2
1
0
−1
−2

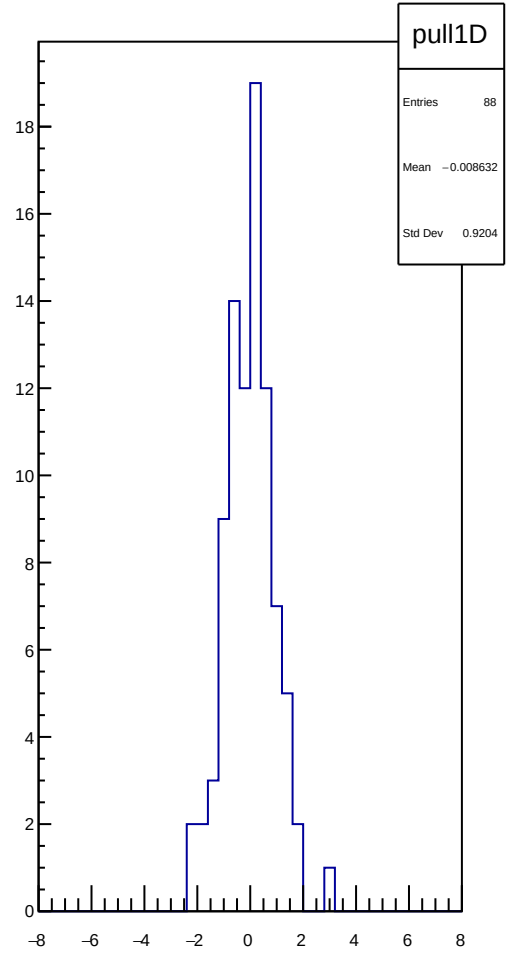

pull1D
Entries 88
Mean −0.002226
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

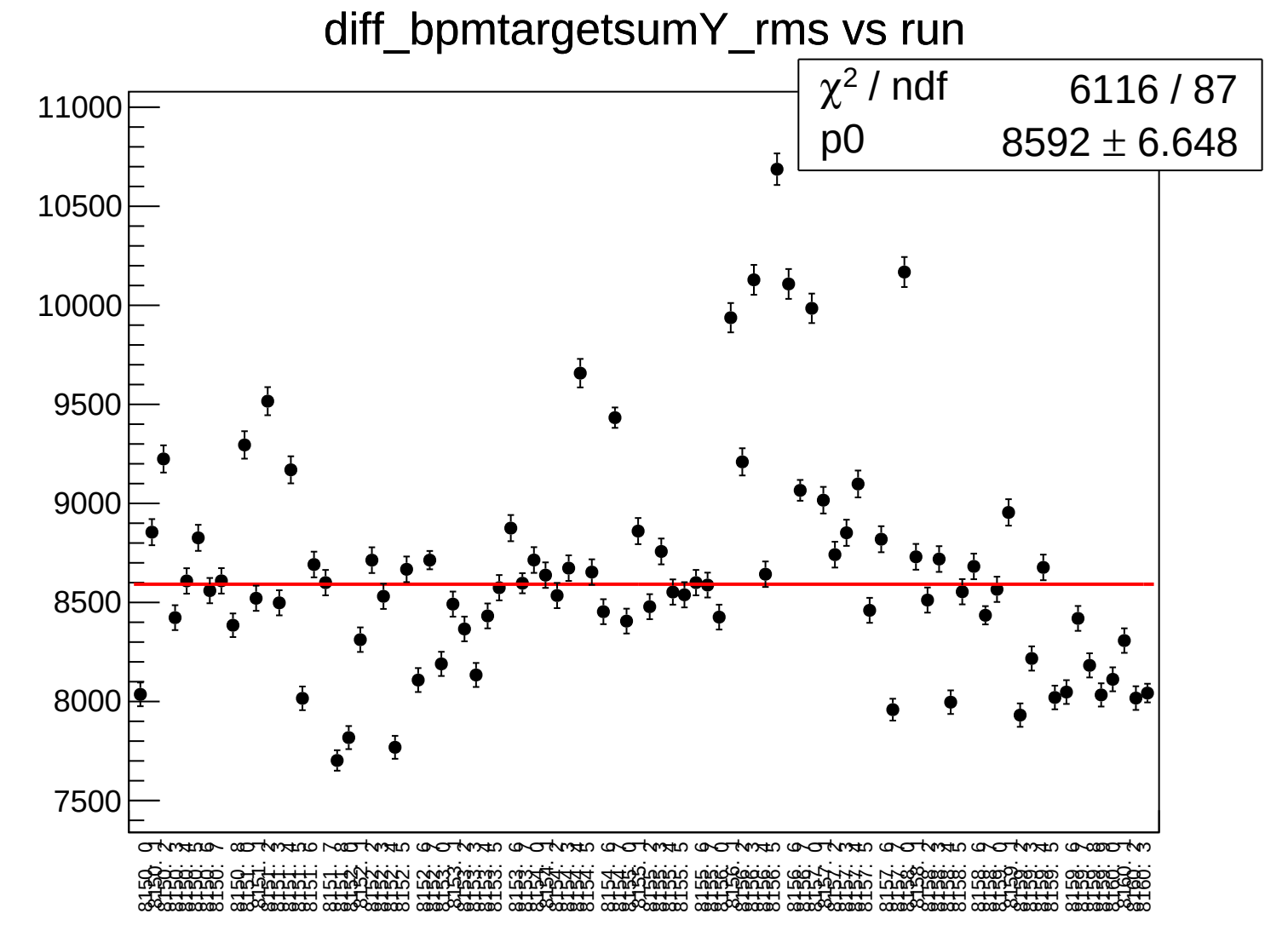

diff_bpmtargetsumX_rms vs run
χ² / ndf 3329 / 87
p0 2.376e+04 ± 18.37
28000
27000
26000
25000
24000
23000
22000
21000

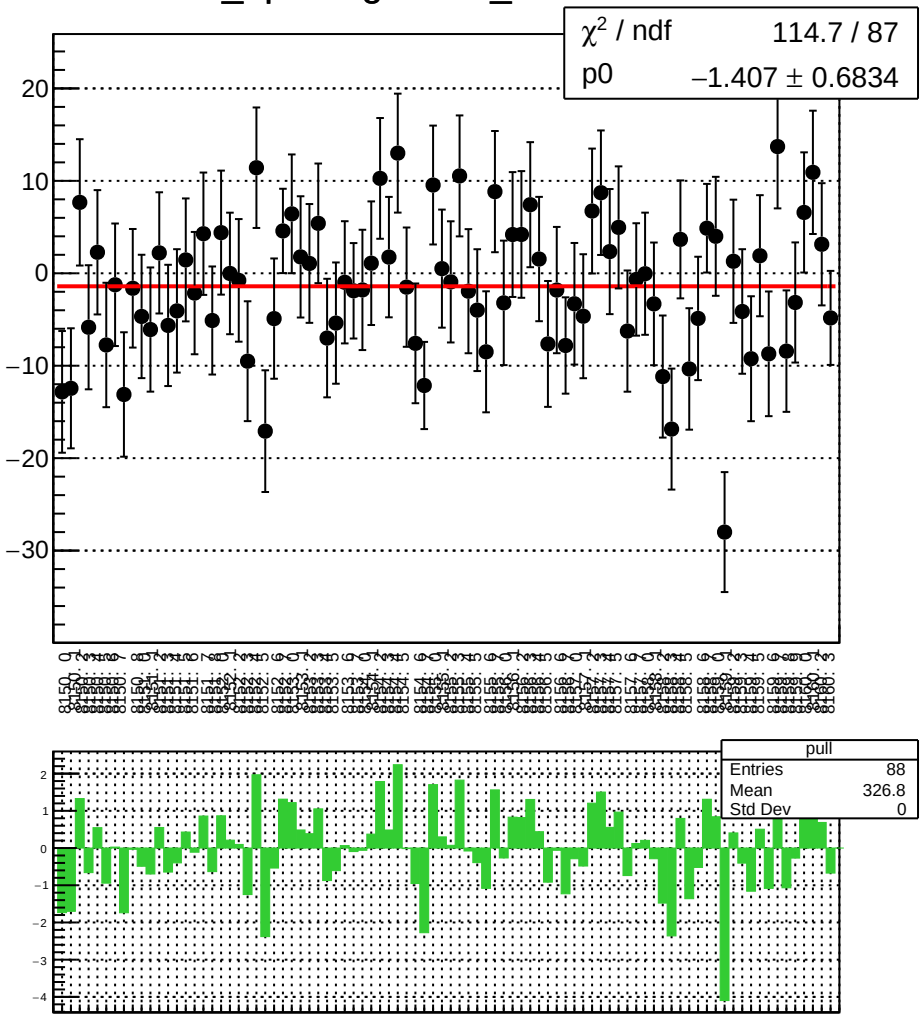

diff_bpmtargetdiffX_mean vs run
χ² / ndf 92.74 / 87
p0 −1.039 ± 1.189
40
20
0
−20
−40
pull
Entries 88
Mean −2373
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.000917
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

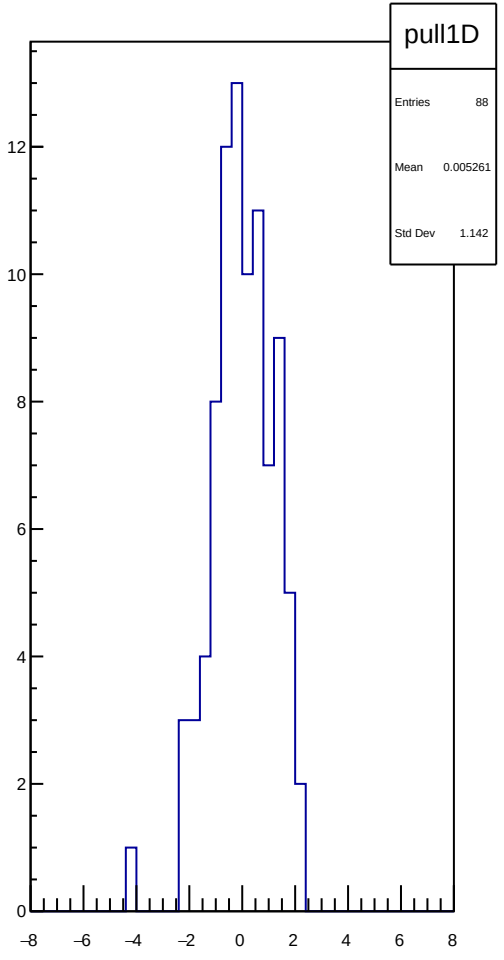

diff_bpmtargetdiffX_rms vs run
χ² / ndf 1115 / 87
p0 1088 ± 0.8409
1180
1160
1140
1120
1100
1080
1060
1040
1020

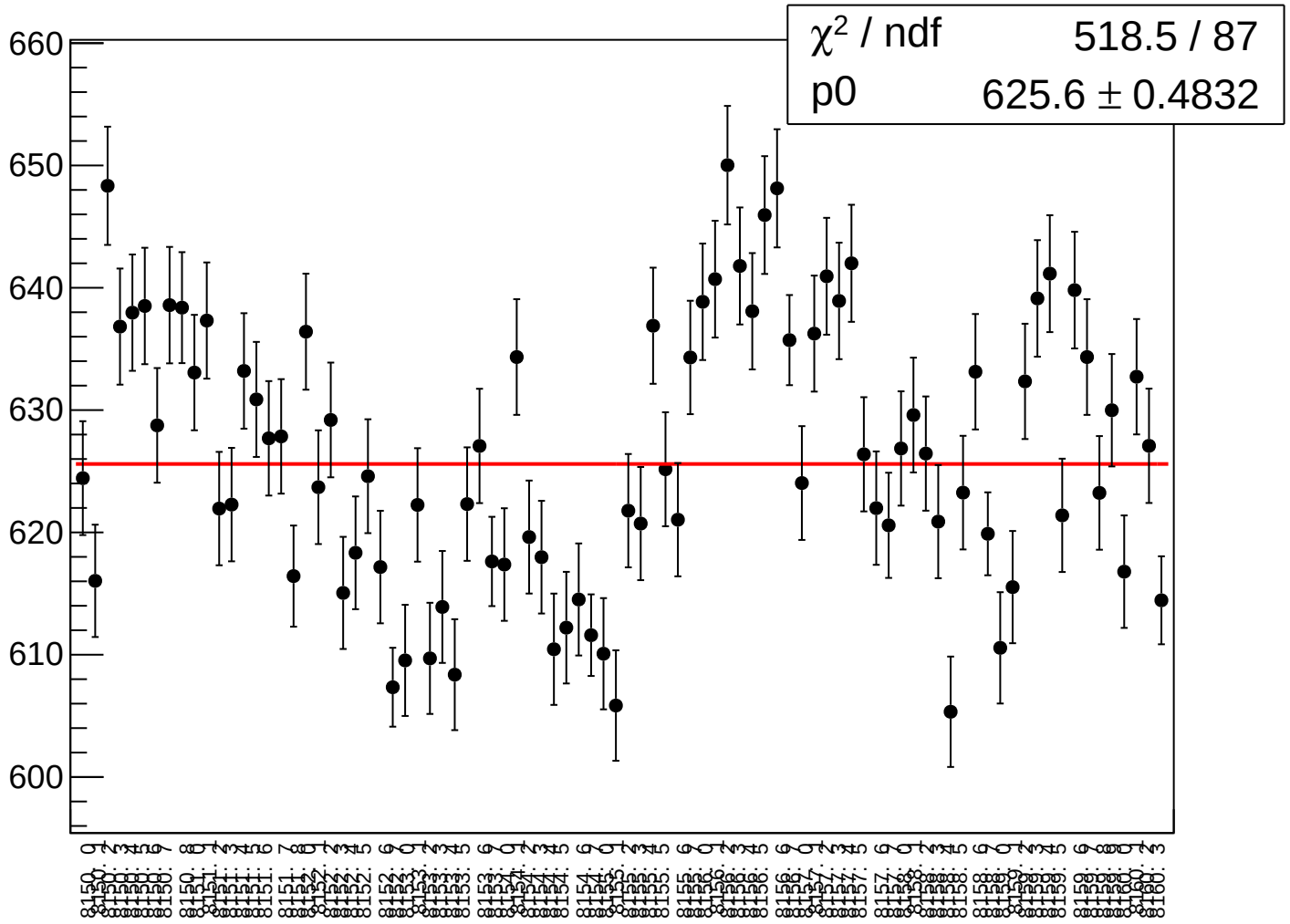

diff_bpmtargetsumY_mean vs run
χ² / ndf 74.56 / 87
p0 6.518 ± 9.402
pull
Entries 88
Mean −233.4
Std Dev 0

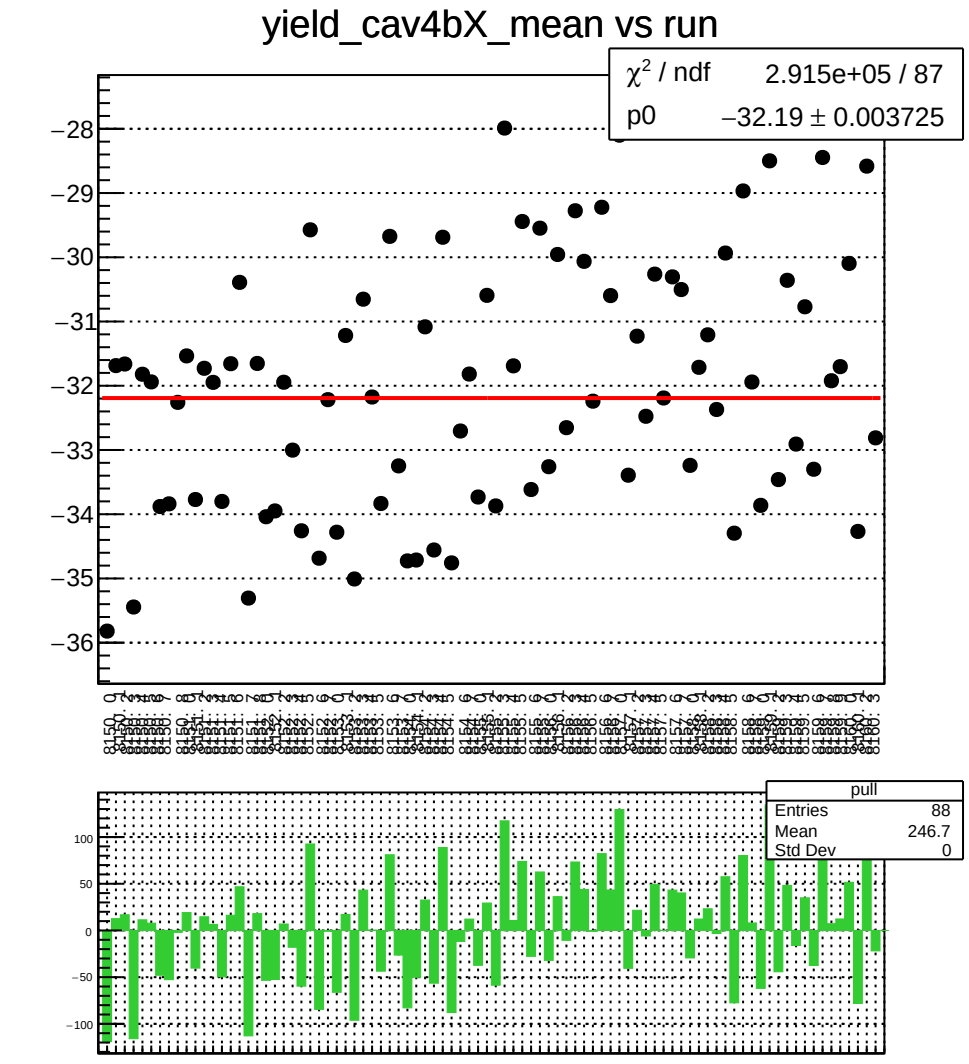

pull1D
Entries 88
Mean −0.008632
Std Dev 0.9204

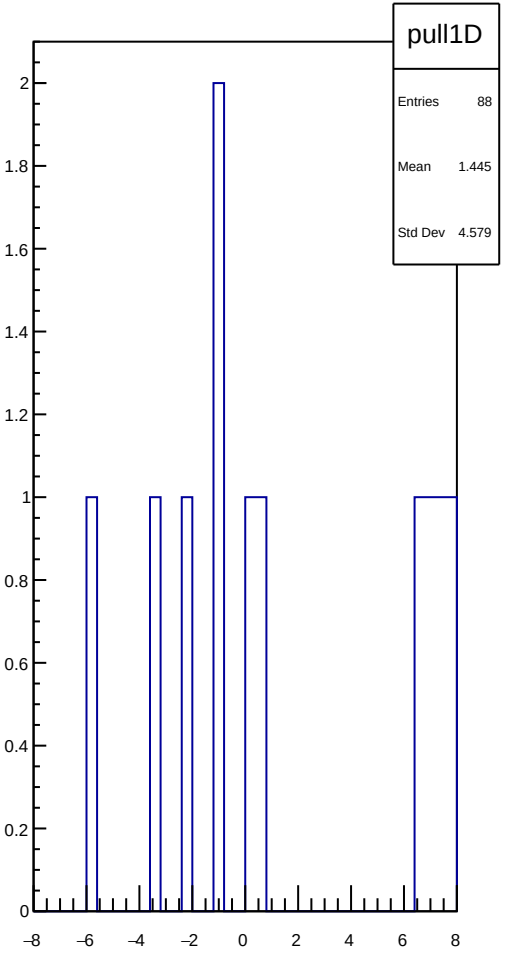

diff_bpmtargetsumY_rms vs run
χ² / ndf 6116 / 87
p0 8592 ± 6.648
11000
10500
10000
9500
9000
8500
8000
7500

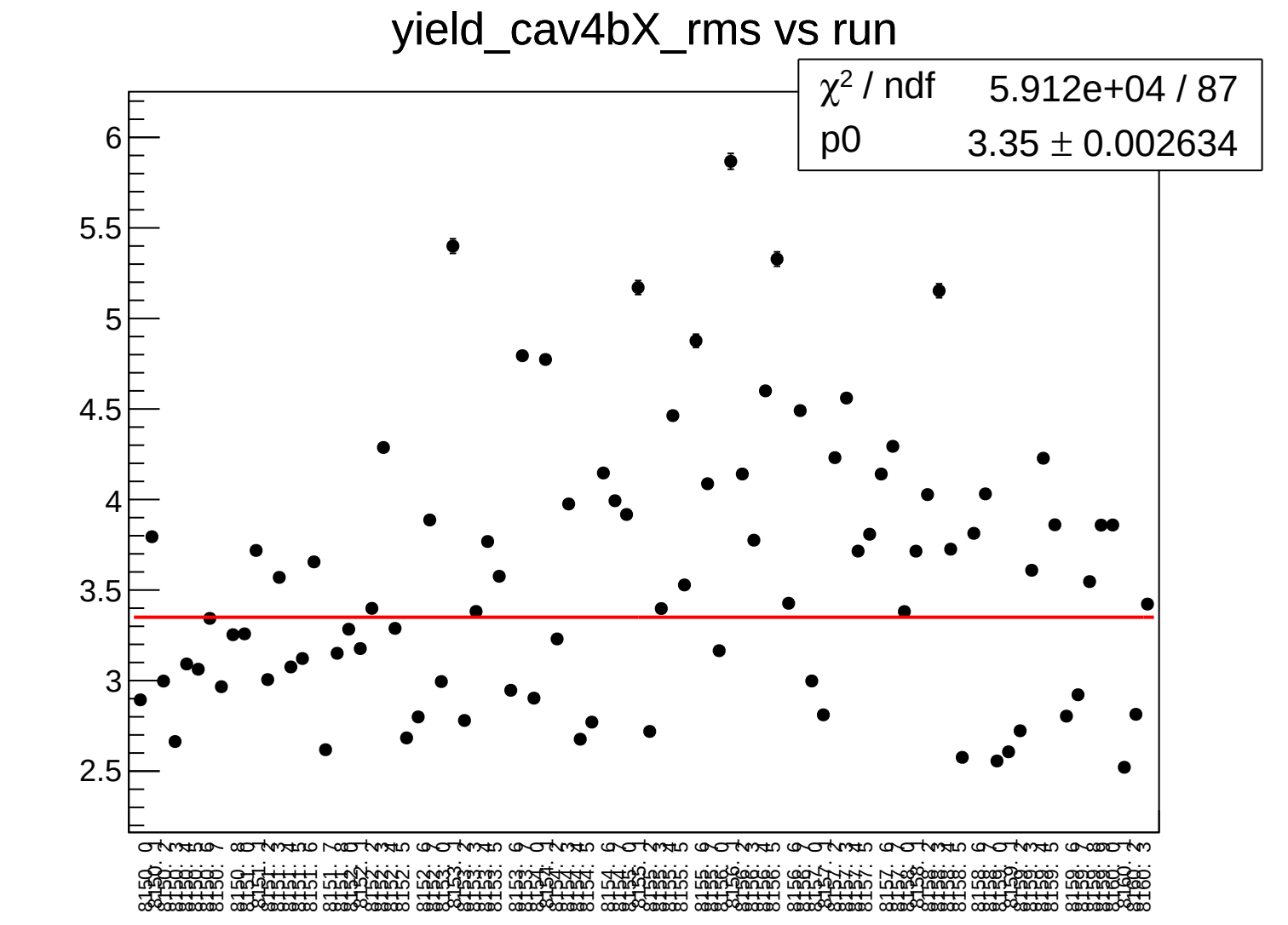

diff_bpmtargetdiffY_mean vs run
χ² / ndf 114.7 / 87
p0 −1.407 ± 0.6834
pull
Entries 88
Mean 326.8
Std Dev 0

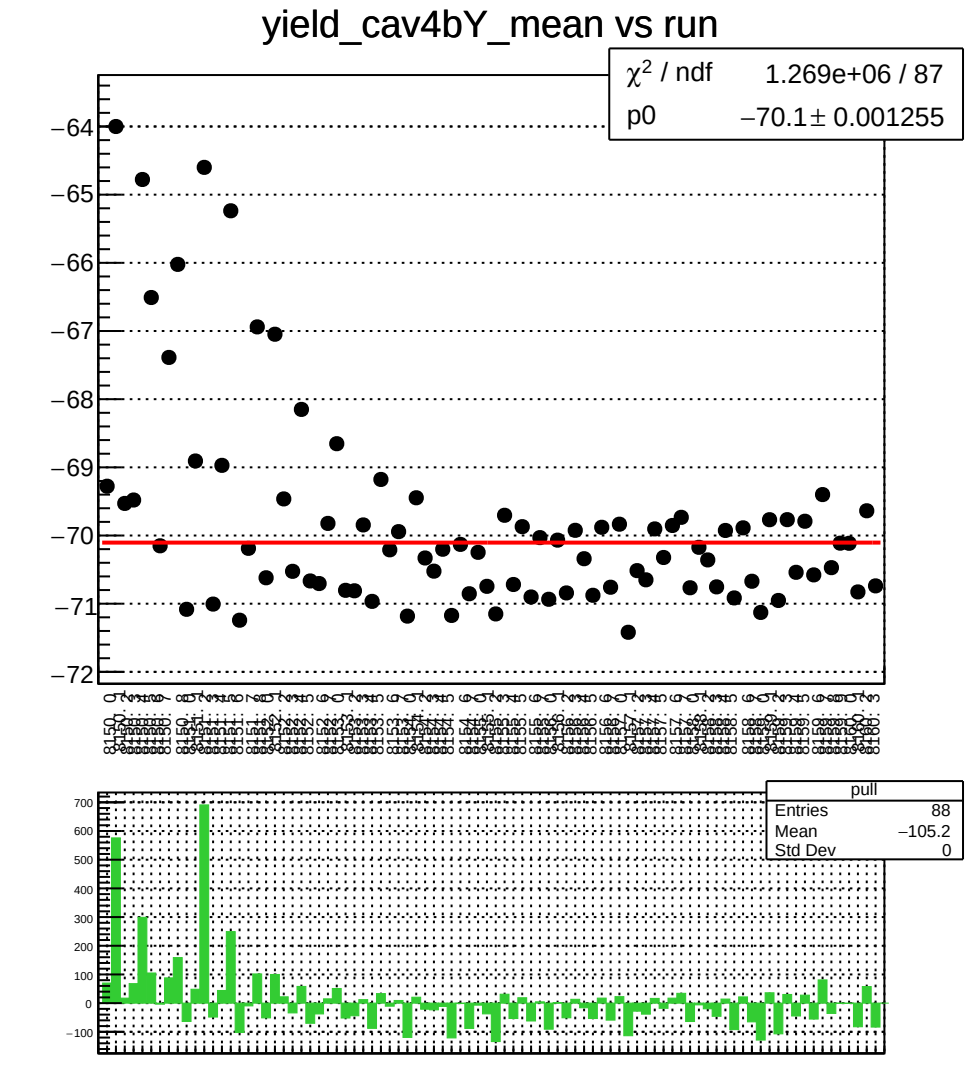

pull1D
Entries 88
Mean 0.005261
Std Dev 1.142

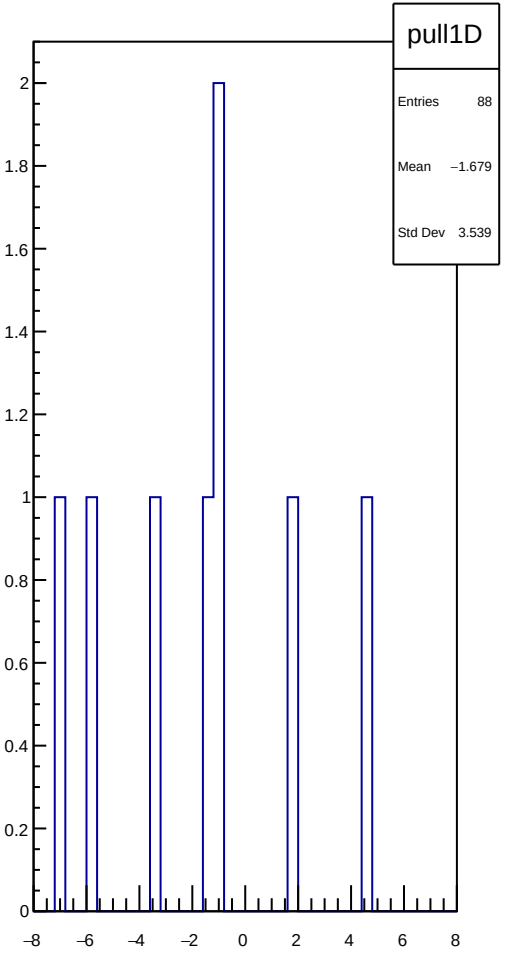

diff_bpmtargetdiffY_rms vs run
χ² / ndf 518.5 / 87
p0 625.6 ± 0.4832
660
650
640
630
620
610
600

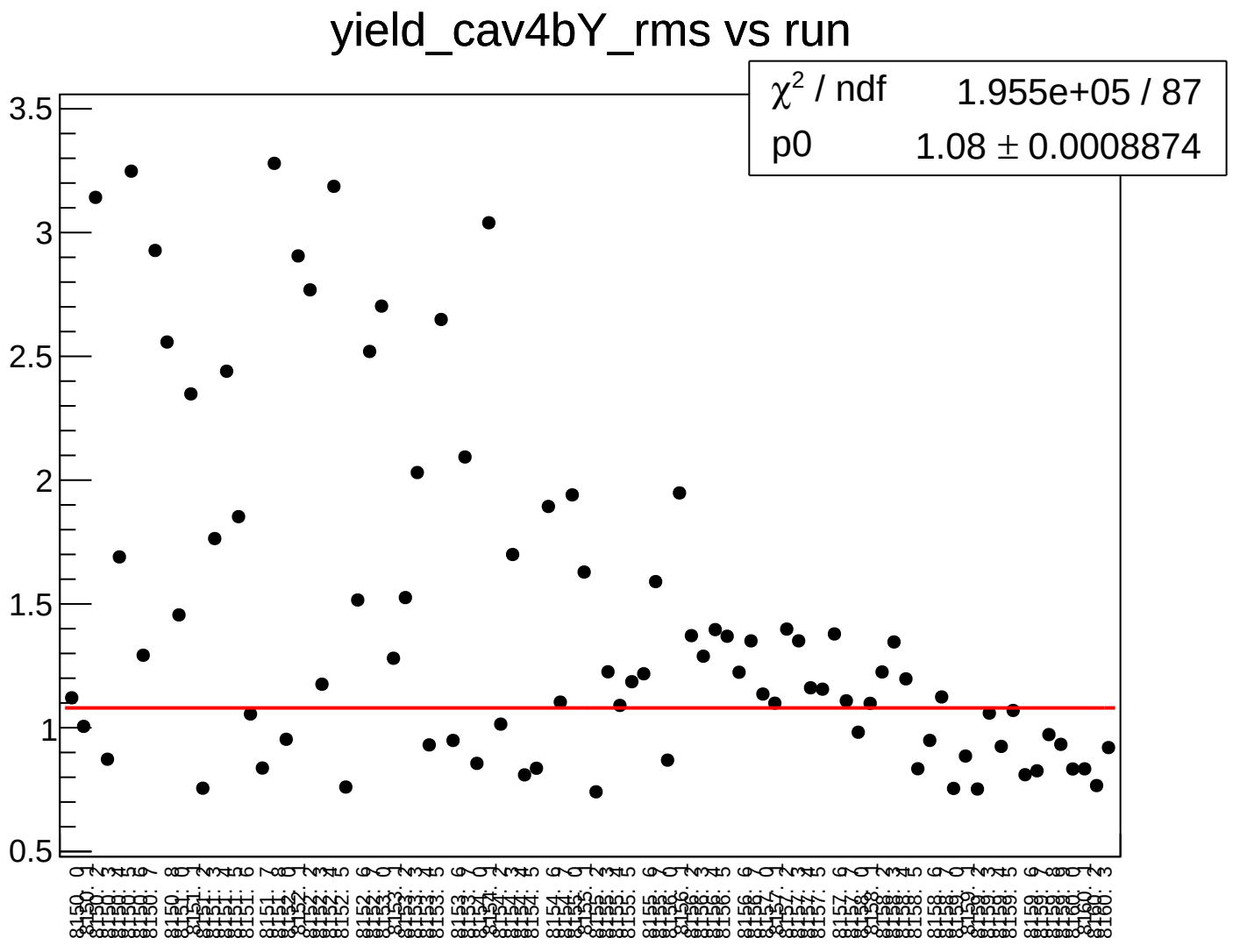

yield_cav4bX_mean vs run
χ² / ndf 2.915e+05 / 87
p0 −32.19 ± 0.003725
pull
Entries 88
Mean 246.7
Std Dev 0

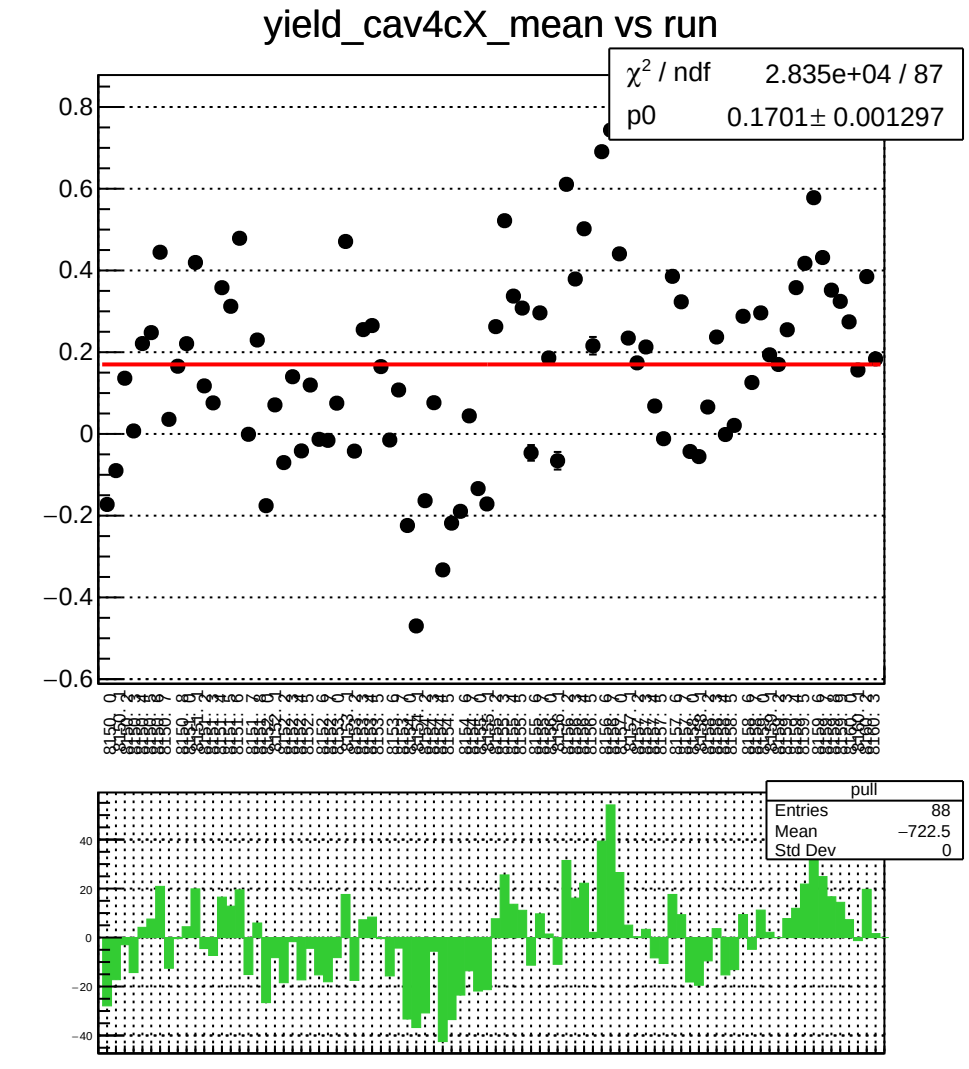

pull1D
Entries 88
Mean 1.445
Std Dev 4.579

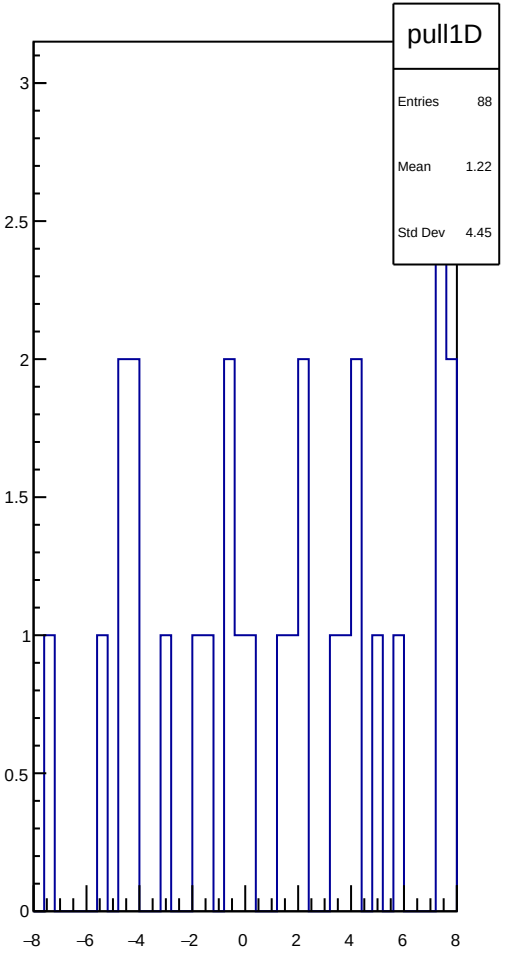

yield_cav4bX_rms vs run
χ² / ndf 5.912e+04 / 87
p0 3.35 ± 0.002634
6
5.5
5
4.5
4
3.5
3
2.5

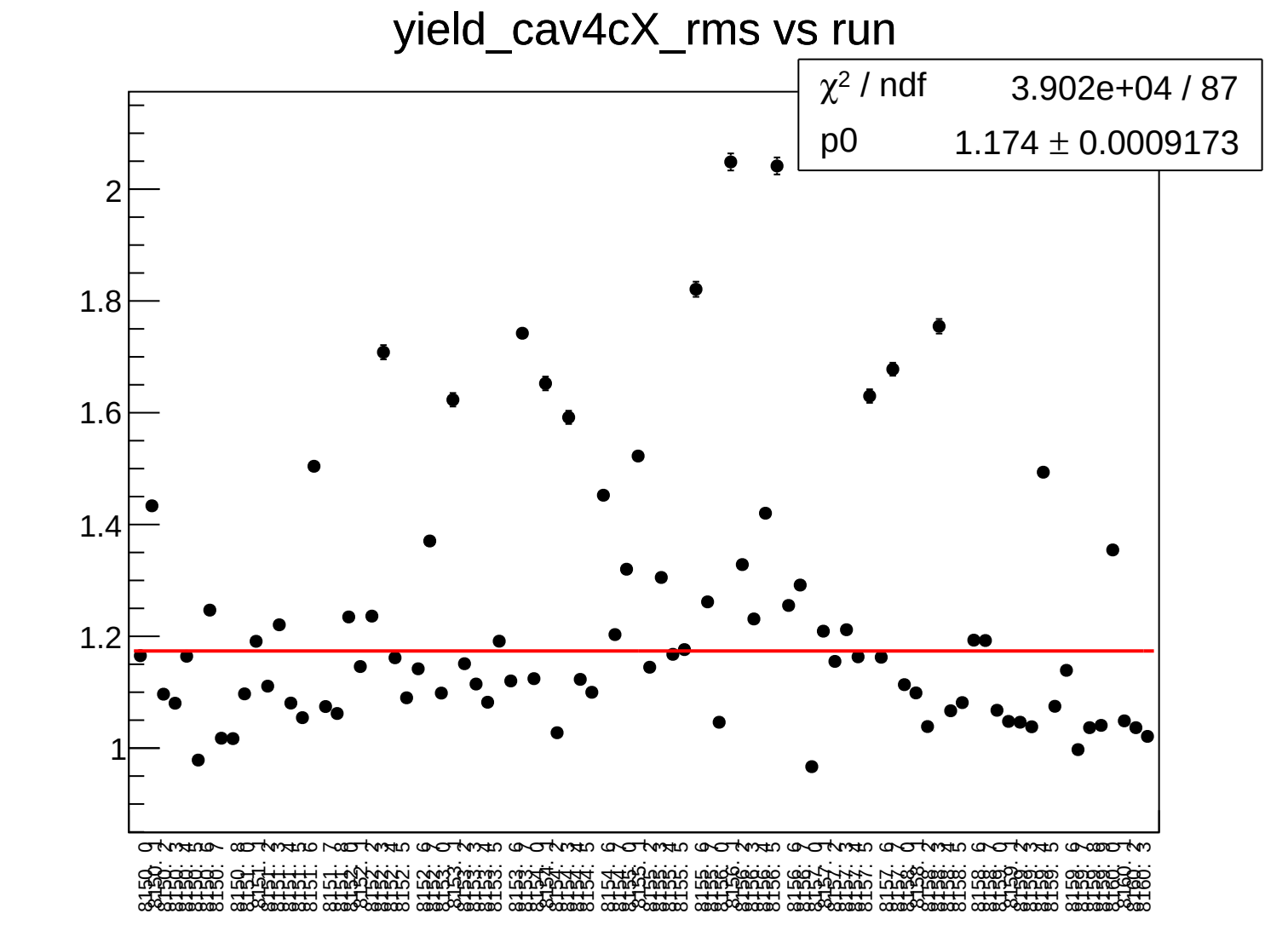

yield_cav4bY_mean vs run
χ² / ndf 1.269e+06 / 87
p0 −70.1 ± 0.001255
pull
Entries 88
Mean −105.2
Std Dev 0

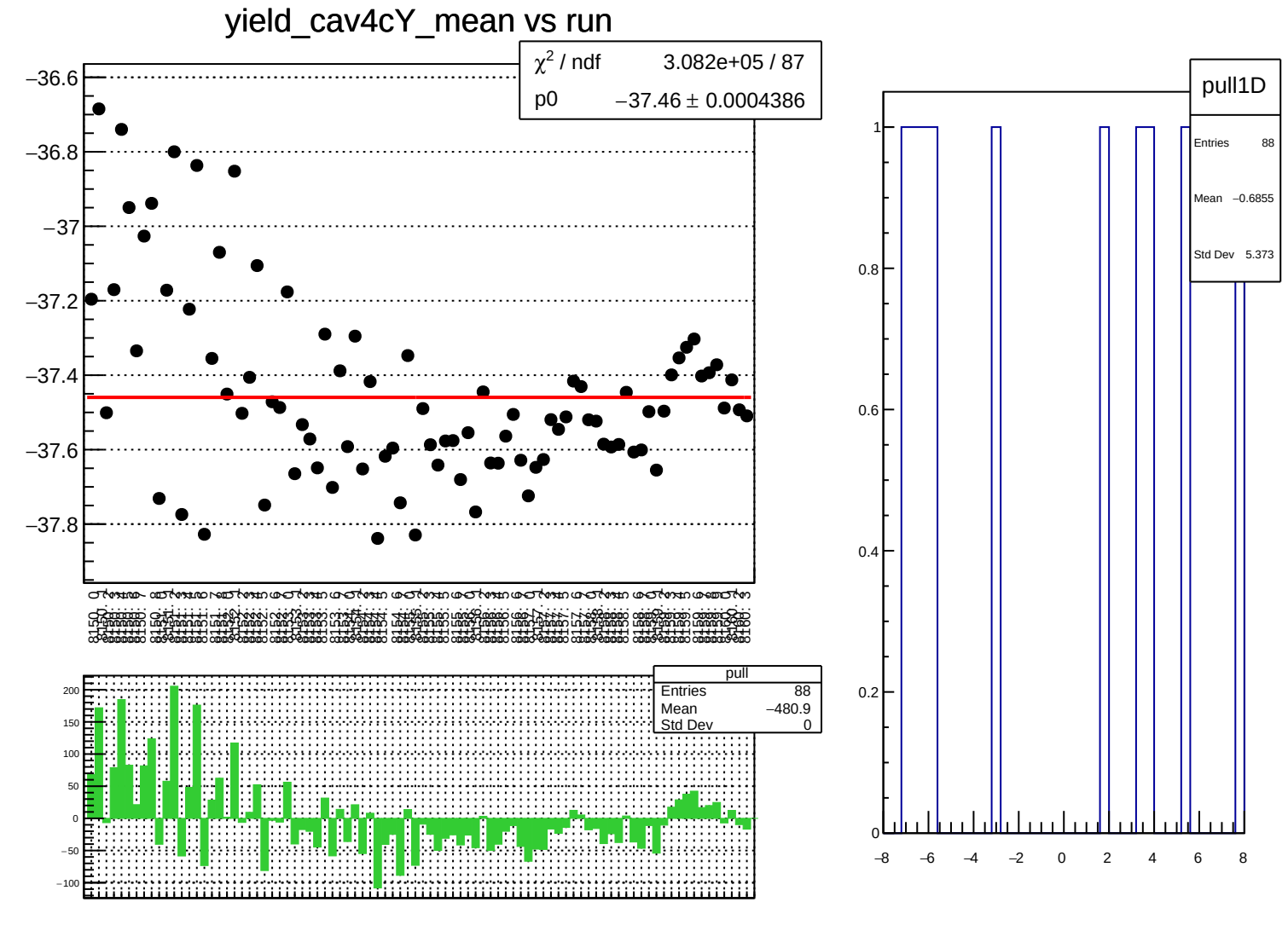

pull1D
Entries 88
Mean −1.679
Std Dev 3.539

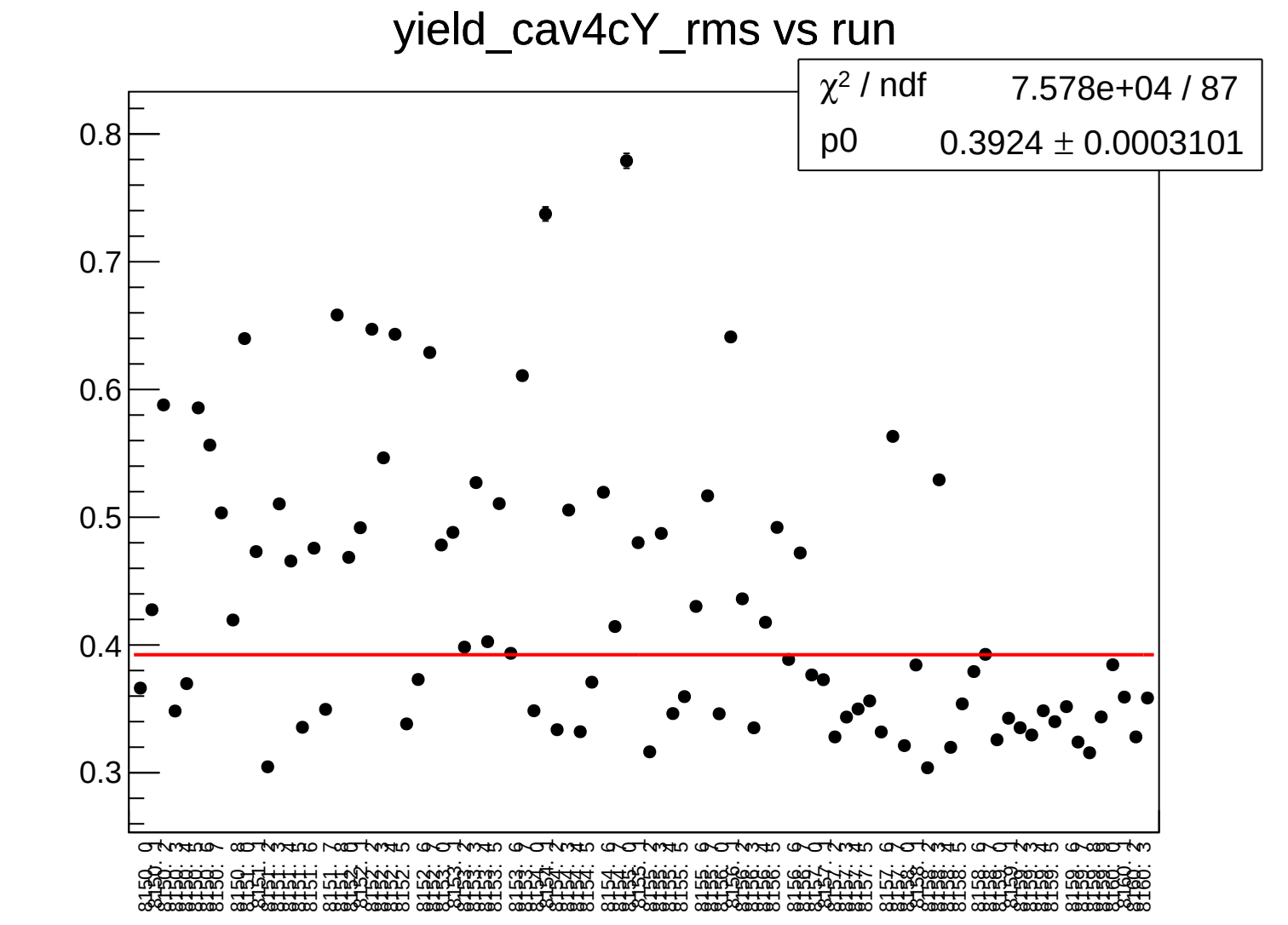

yield_cav4bY_rms vs run
χ² / ndf 1.955e+05 / 87
p0 1.08 ± 0.0008874
3.5
3
2.5
2
1.5
1
0.5

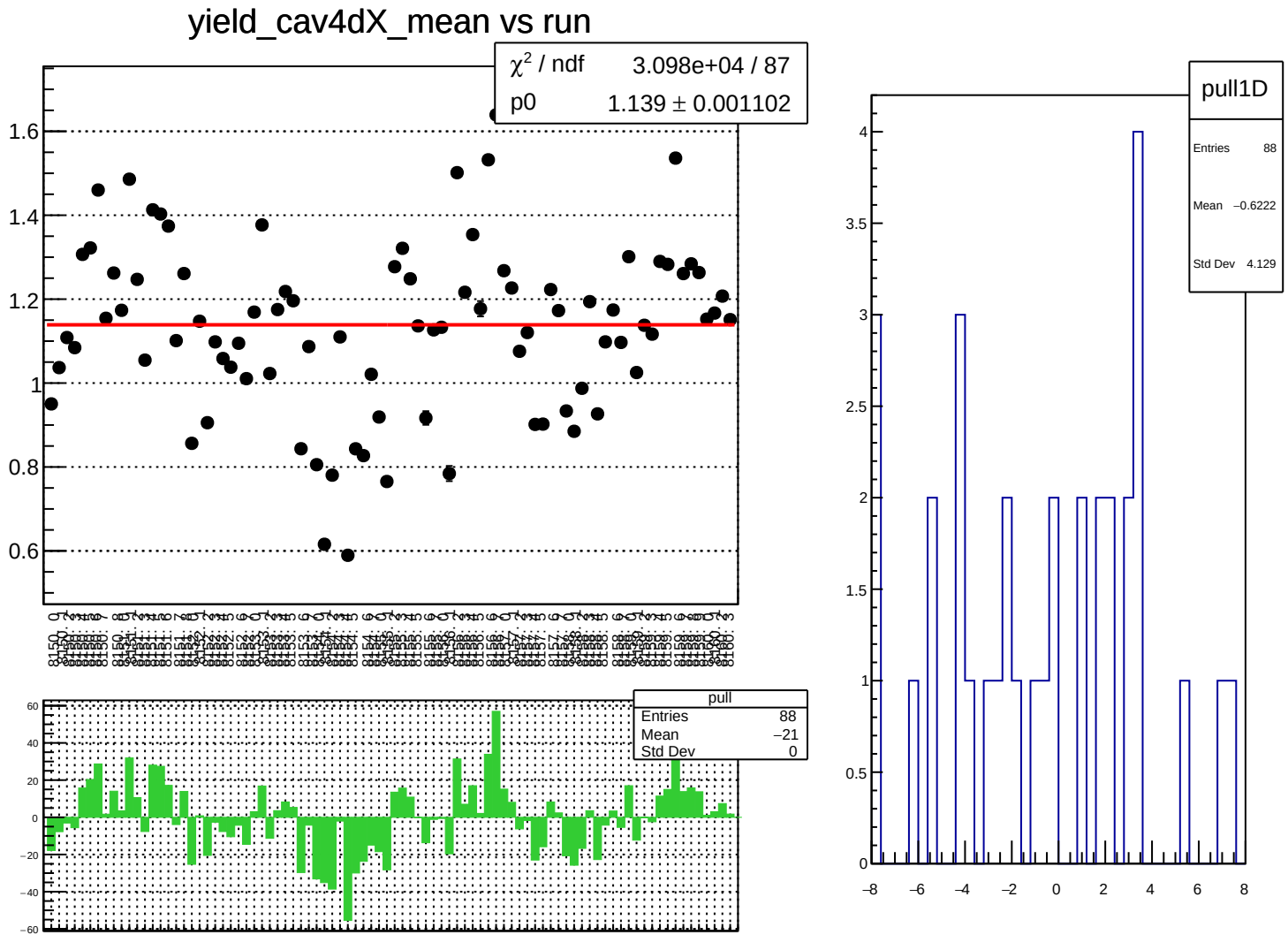

yield_cav4cX_mean vs run
χ² / ndf 2.835e+04 / 87
p0 0.1701± 0.001297
pull
Entries 88
Mean −722.5
Std Dev 0

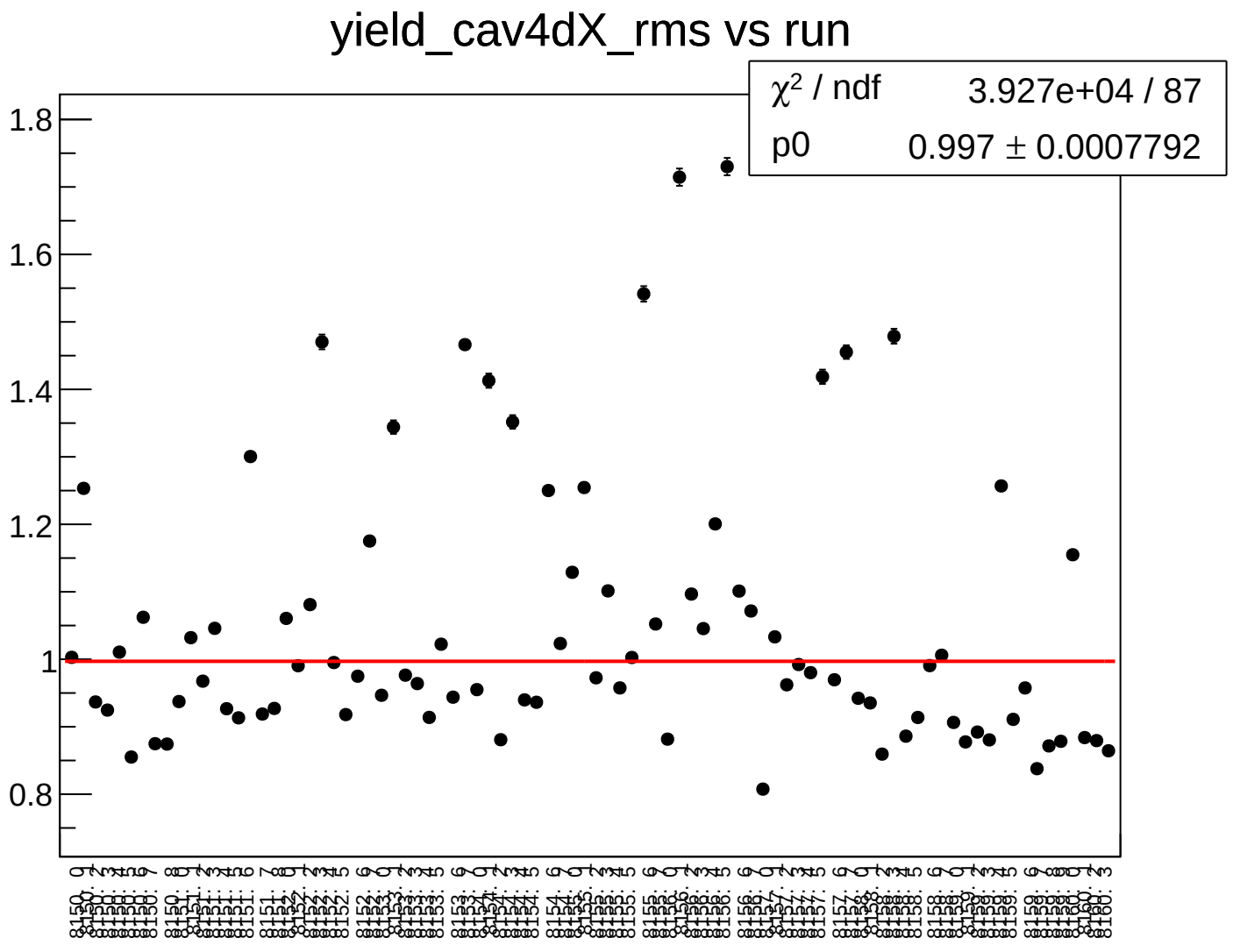

pull1D
Entries 88
Mean 1.22
Std Dev 4.45

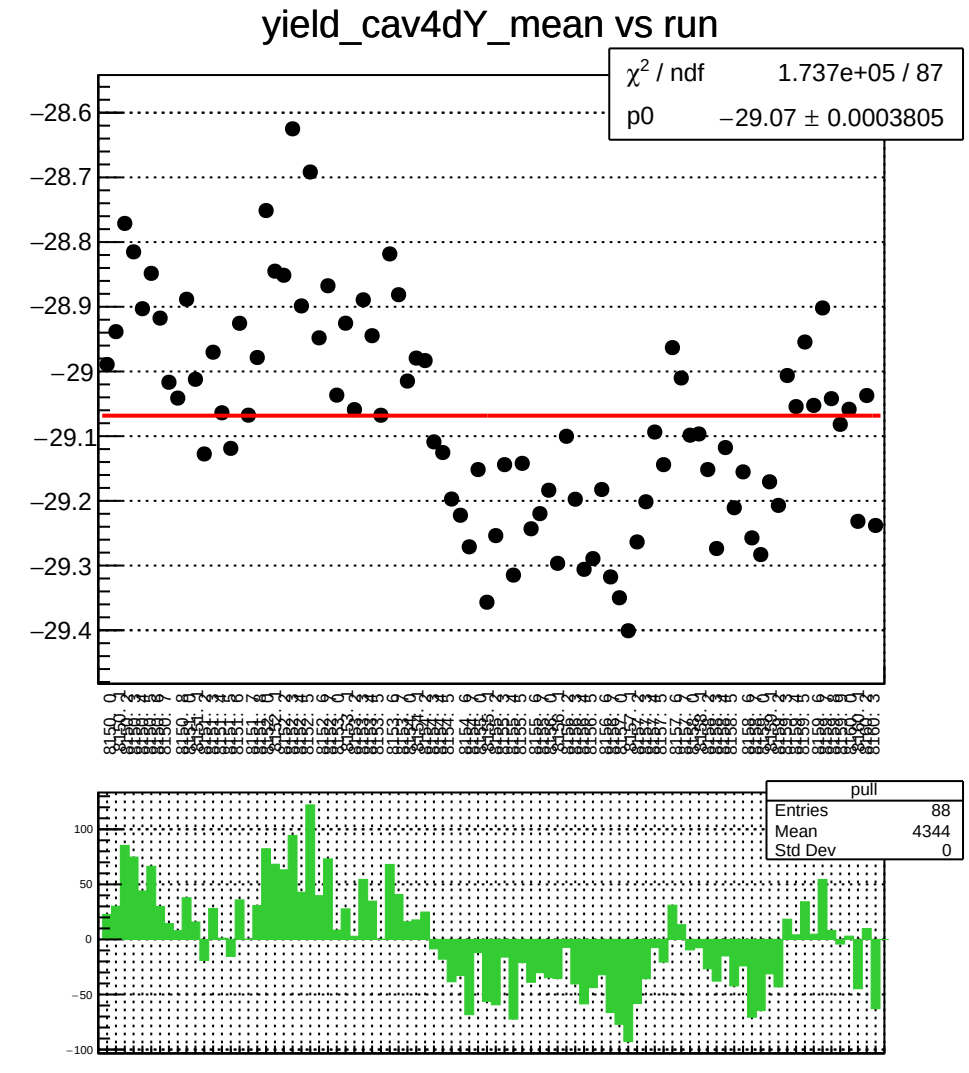

yield_cav4cX_rms vs run
χ² / ndf 3.902e+04 / 87
p0 1.174 ± 0.0009173
2
1.8
1.6
1.4
1.2
1

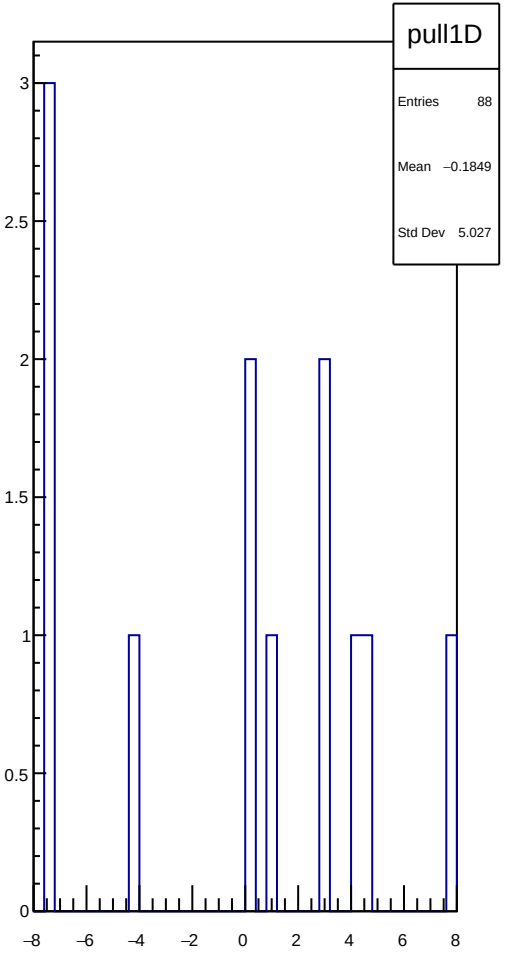

yield_cav4cY_mean vs run
χ² / ndf 3.082e+05 / 87
p0 −37.46 ± 0.0004386
−36.6
−36.8
−37
−37.2
−37.4
−37.6
−37.8
pull
Entries 88
Mean −480.9
Std Dev 0
200
150
100
50
0
−50
−100
pull1D
Entries 88
Mean −0.6855
Std Dev 5.373
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

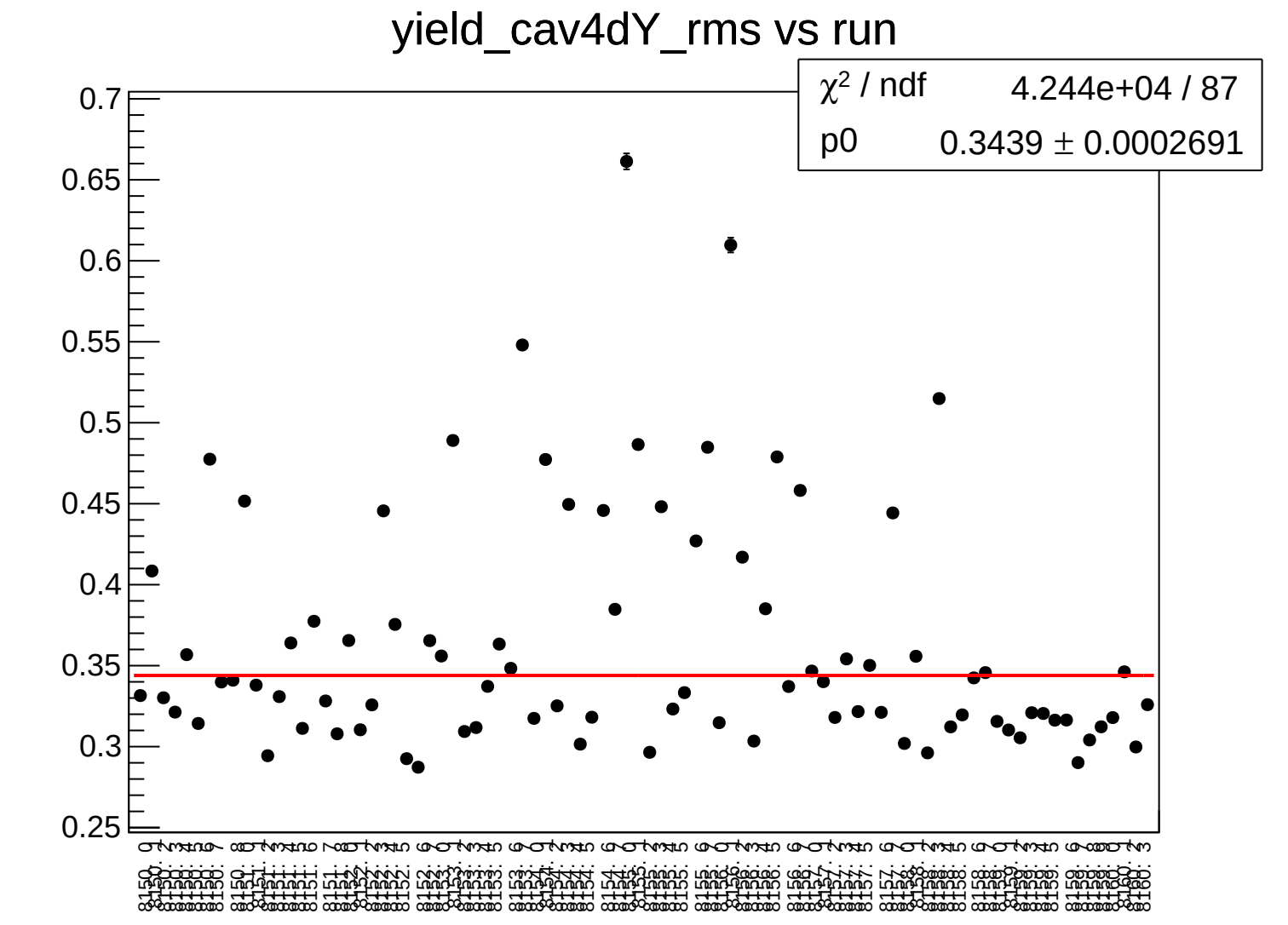

yield_cav4cY_rms vs run
χ² / ndf 7.578e+04 / 87
p0 0.3924 ± 0.0003101
0.8
0.7
0.6
0.5
0.4
0.3

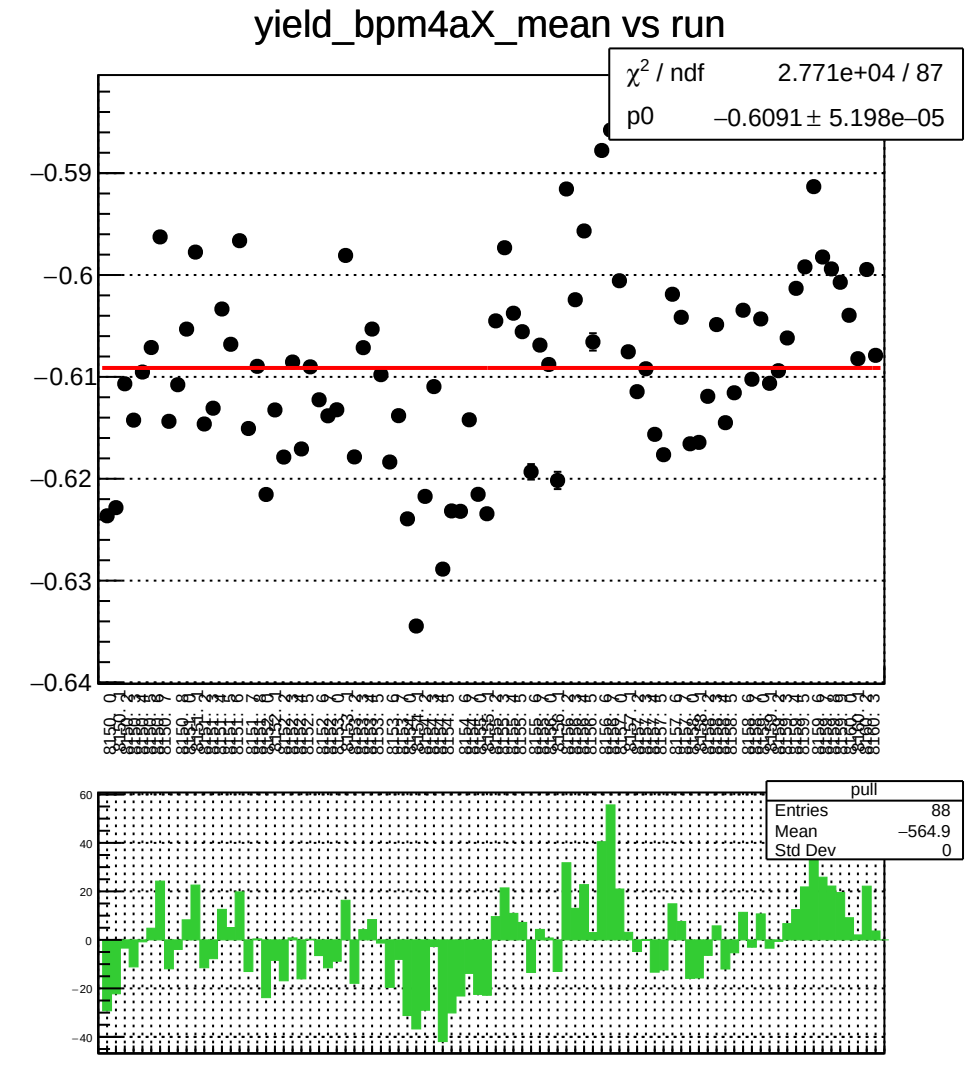

yield_cav4dX_mean vs run
χ² / ndf 3.098e+04 / 87
p0 1.139 ± 0.001102
pull
Entries 88
Mean −21
Std Dev 0
pull1D
Entries 88
Mean −0.6222
Std Dev 4.129

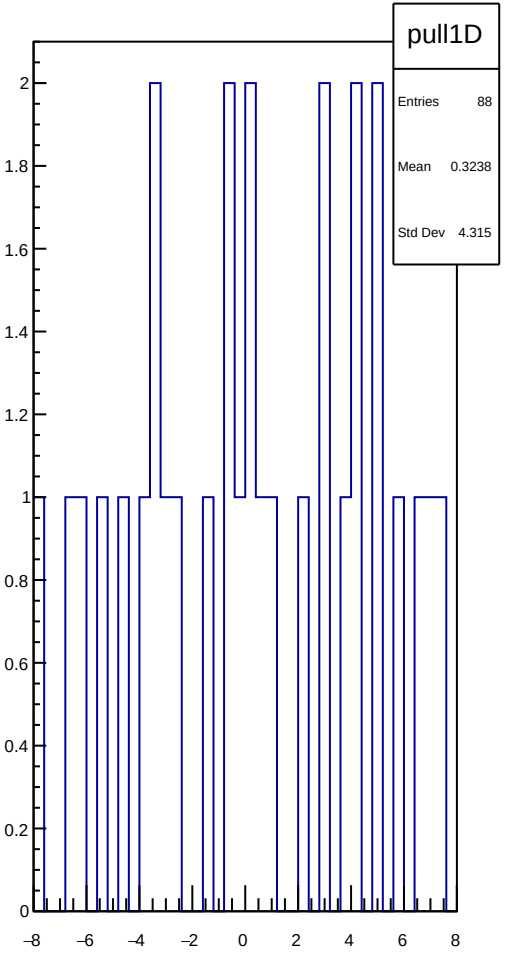

yield_cav4dX_rms vs run
χ² / ndf 3.927e+04 / 87
p0 0.997 ± 0.0007792
1.8
1.6
1.4
1.2
1
0.8

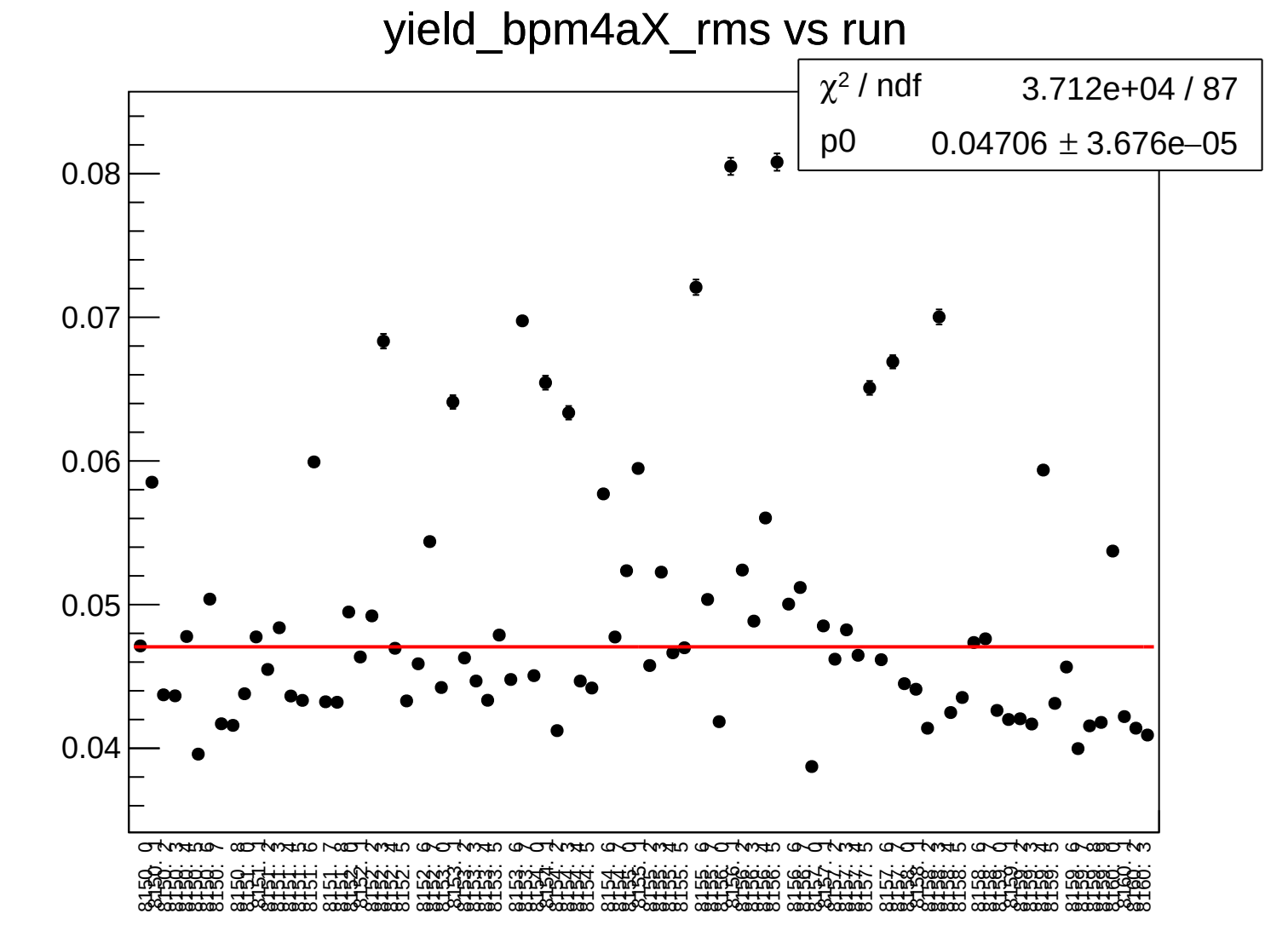

yield_cav4dY_mean vs run
χ² / ndf 1.737e+05 / 87
p0 −29.07 ± 0.0003805
−28.6
−28.7
−28.8
−28.9
−29
−29.1
−29.2
−29.3
−29.4
pull
Entries 88
Mean 4344
Std Dev 0
100
50
0
−50
−100

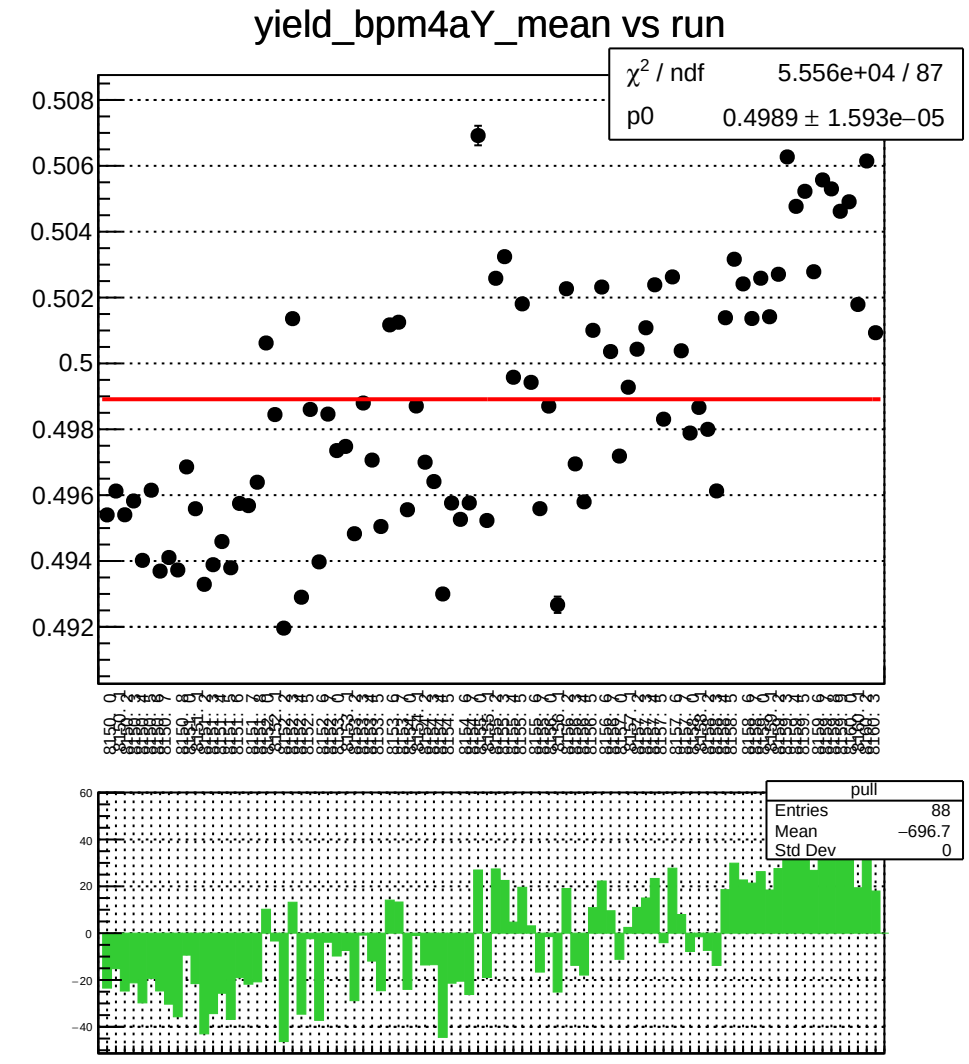

pull1D
Entries 88
Mean −0.1849
Std Dev 5.027
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

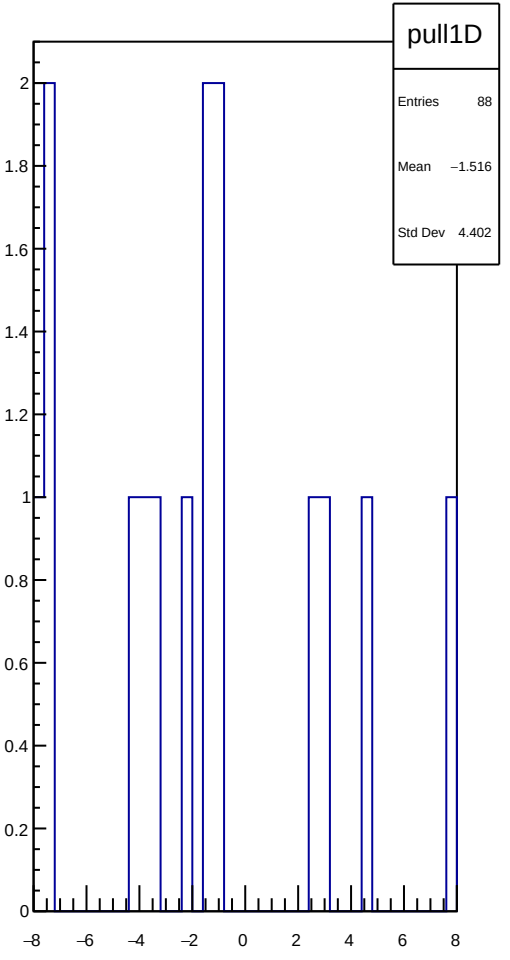

yield_cav4dY_rms vs run
χ² / ndf 4.244e+04 / 87
p0 0.3439 ± 0.0002691
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25

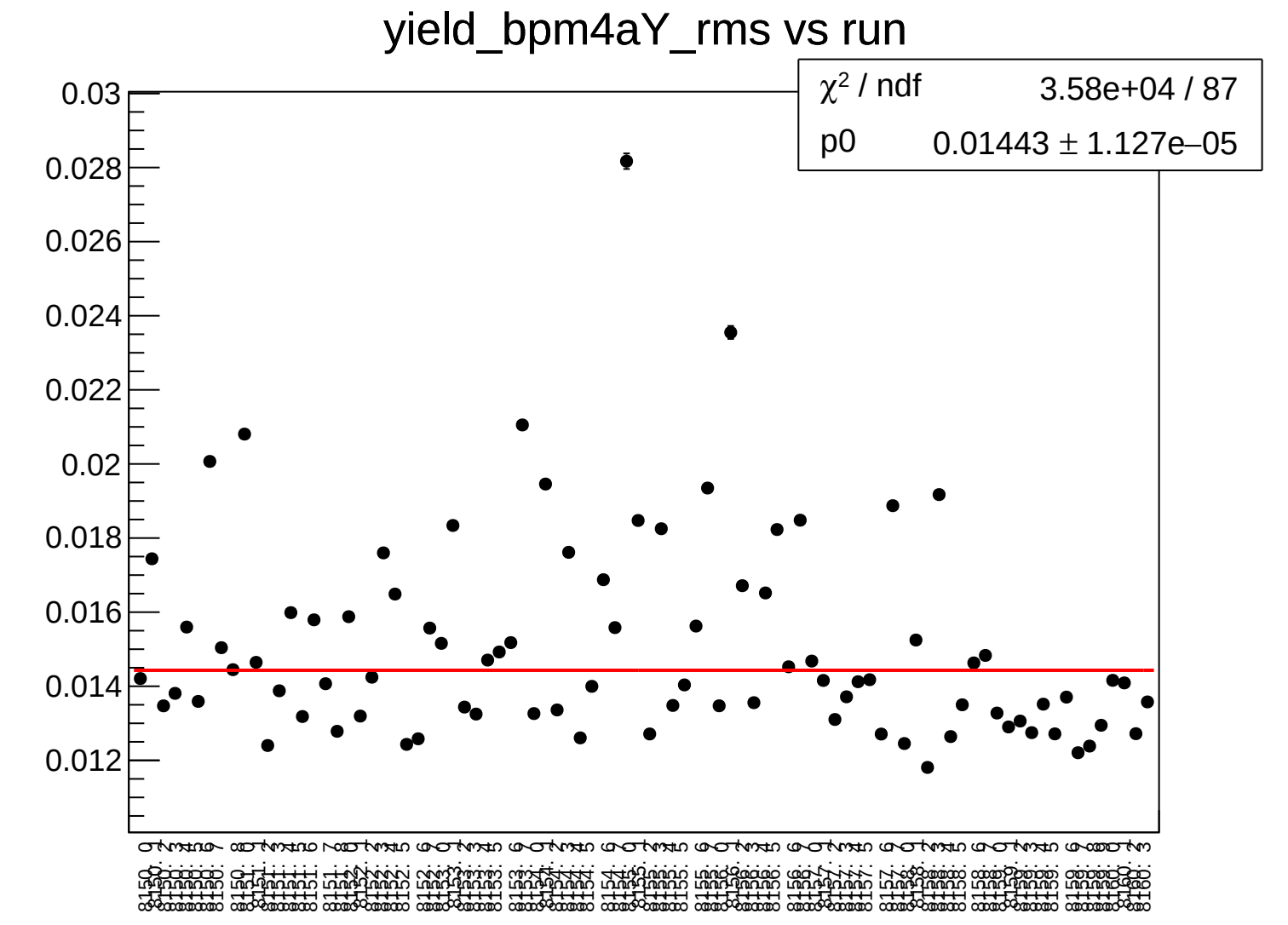

yield_bpm4aX_mean vs run
χ² / ndf 2.771e+04 / 87
p0 −0.6091 ± 5.198e−05
−0.59
−0.6
−0.61
−0.62
−0.63
−0.64
pull
Entries 88
Mean −564.9
Std Dev 0
60
40
20
0
−20
−40

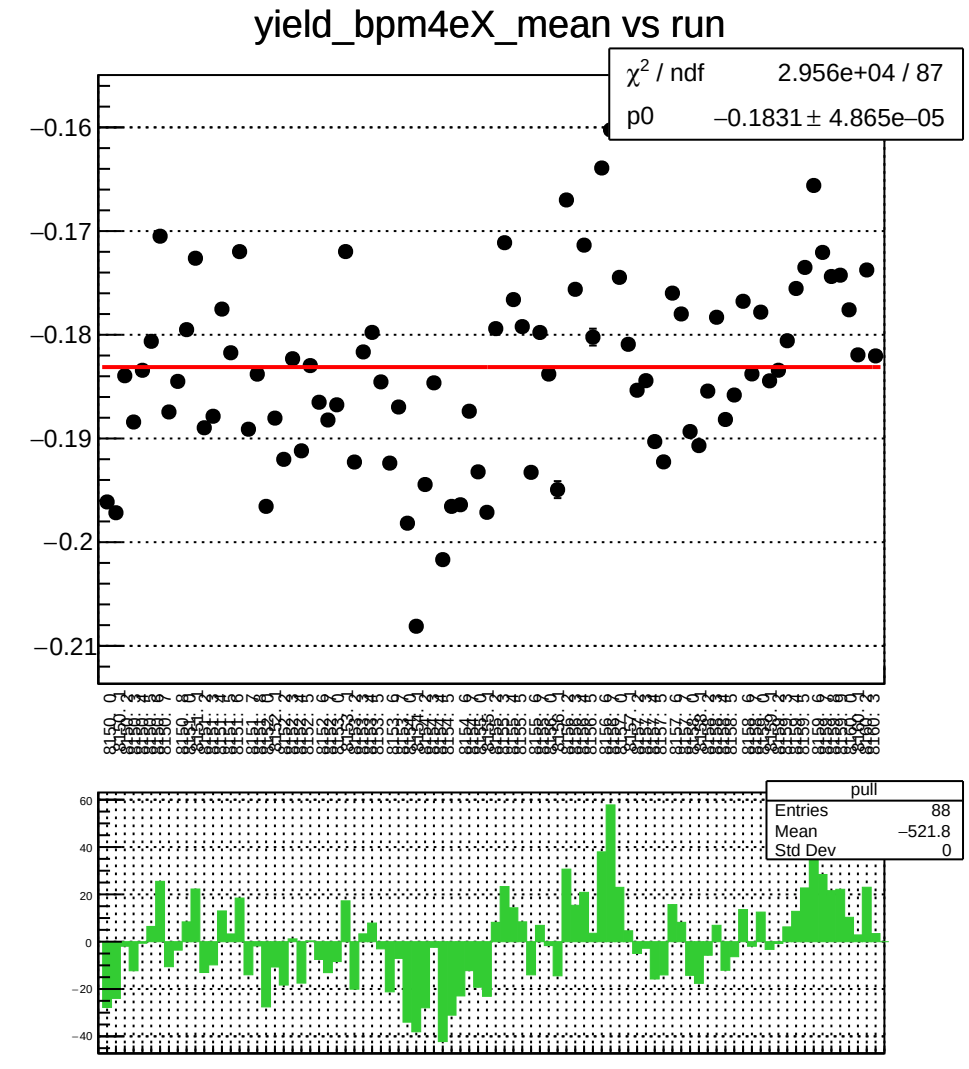

pull1D
Entries 88
Mean 0.3238
Std Dev 4.315
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

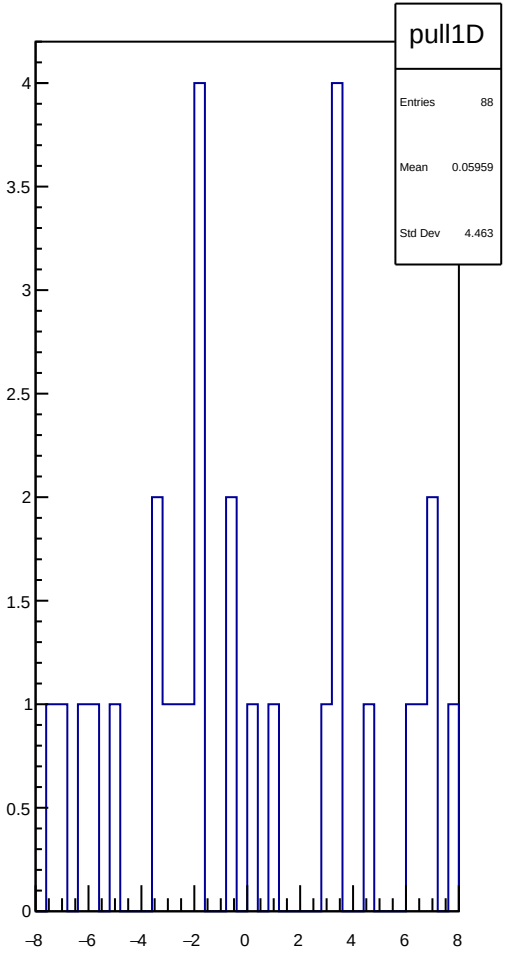

yield_bpm4aX_rms vs run
χ² / ndf 3.712e+04 / 87
p0 0.04706 ± 3.676e–05
0.08
0.07
0.06
0.05
0.04

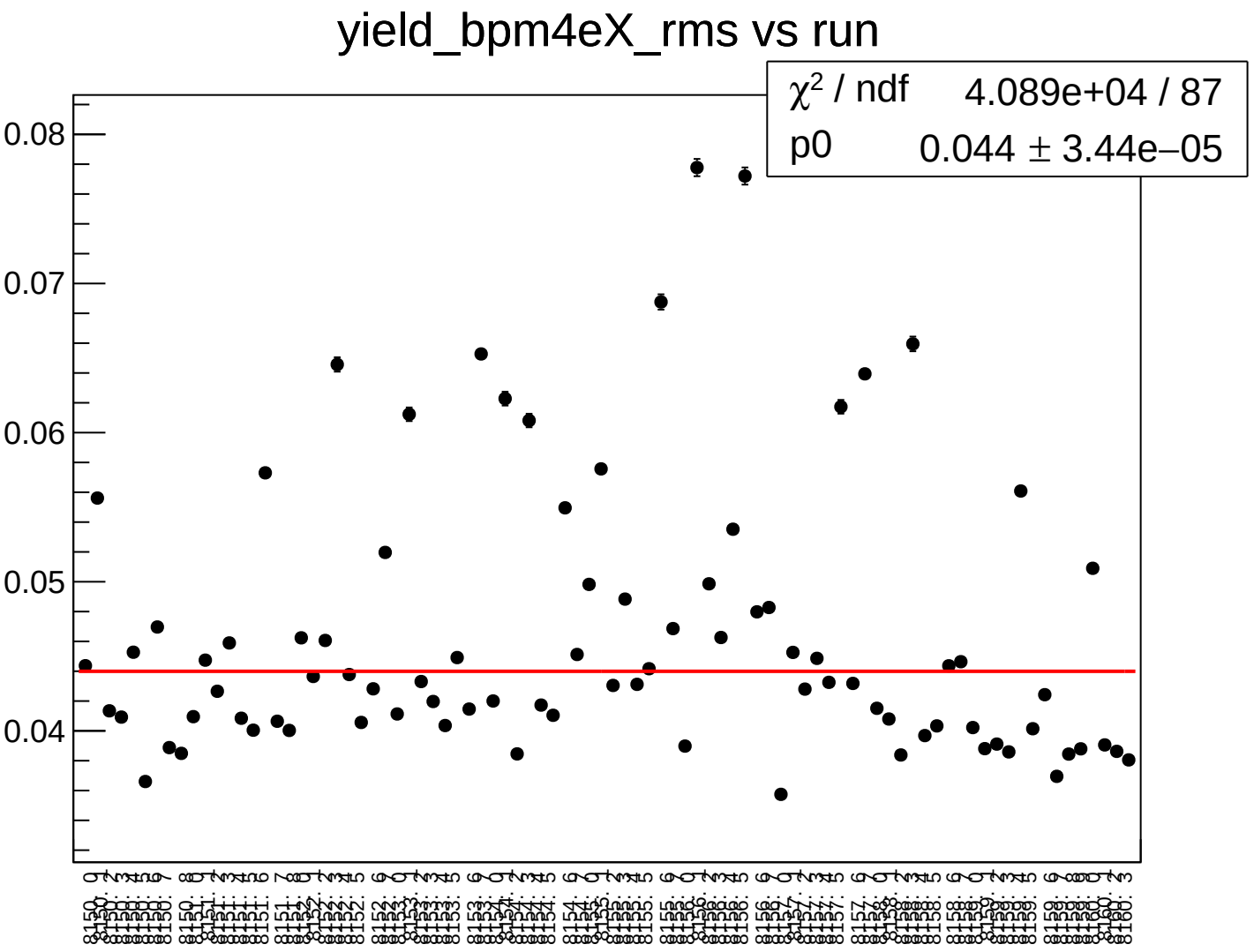

yield_bpm4aY_mean vs run
χ² / ndf 5.556e+04 / 87
p0 0.4989 ± 1.593e−05
0.508
0.506
0.504
0.502
0.5
0.498
0.496
0.494
0.492
pull
Entries 88
Mean −696.7
Std Dev 0
60
40
20
0
−20
−40

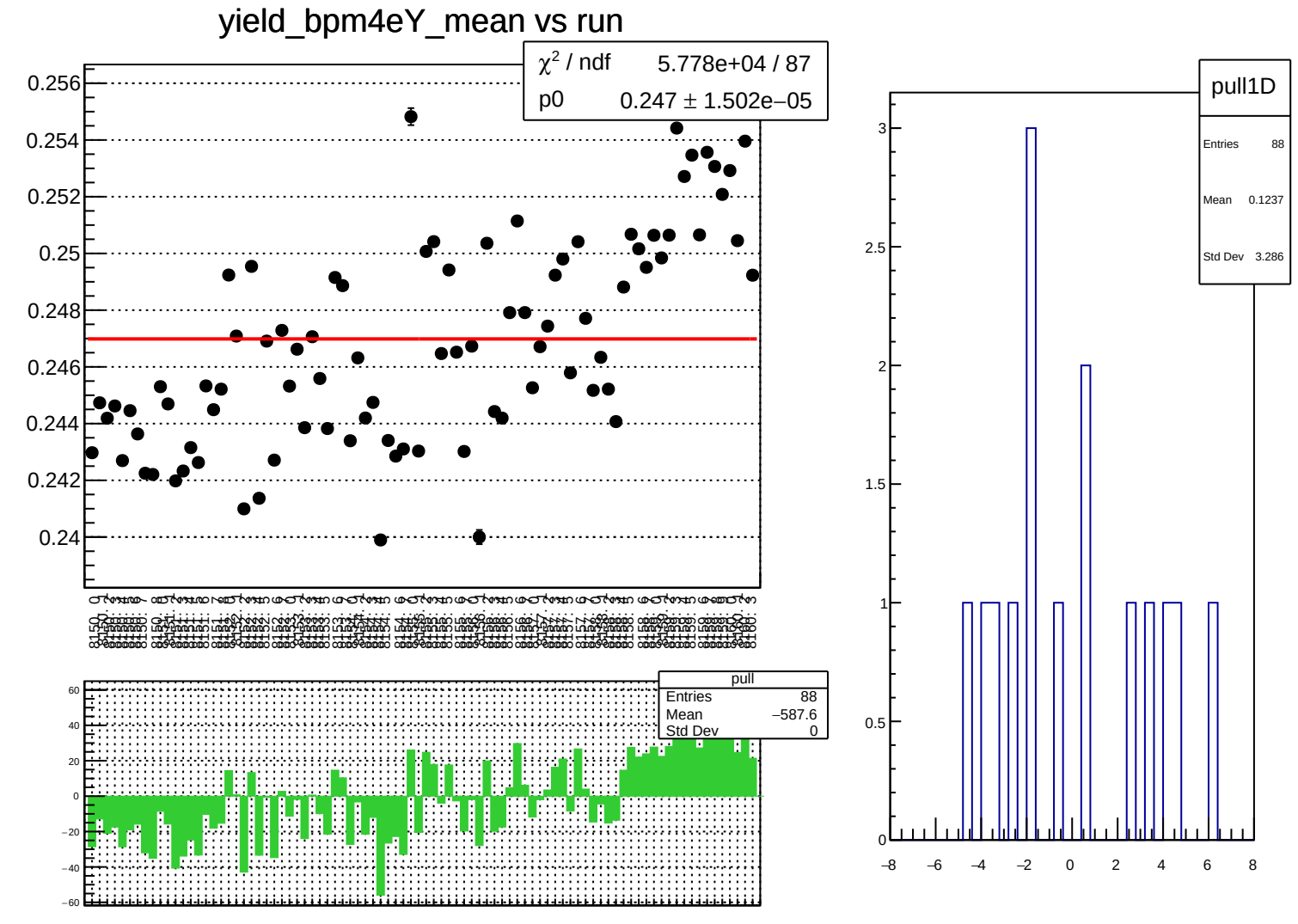

pull1D
Entries 88
Mean −1.516
Std Dev 4.402
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

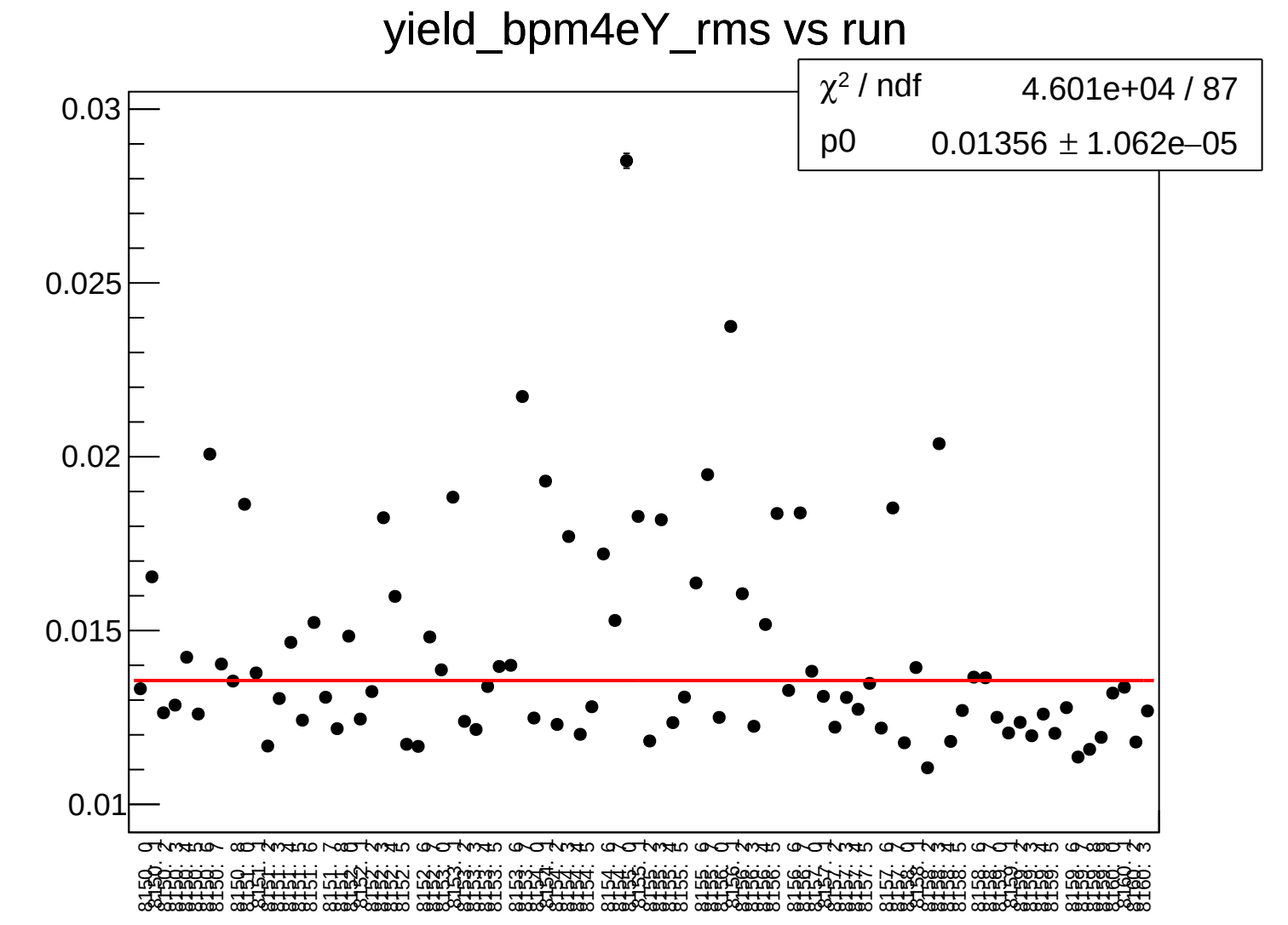

yield_bpm4aY_rms vs run
χ² / ndf 3.58e+04 / 87
p0 0.01443 ± 1.127e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

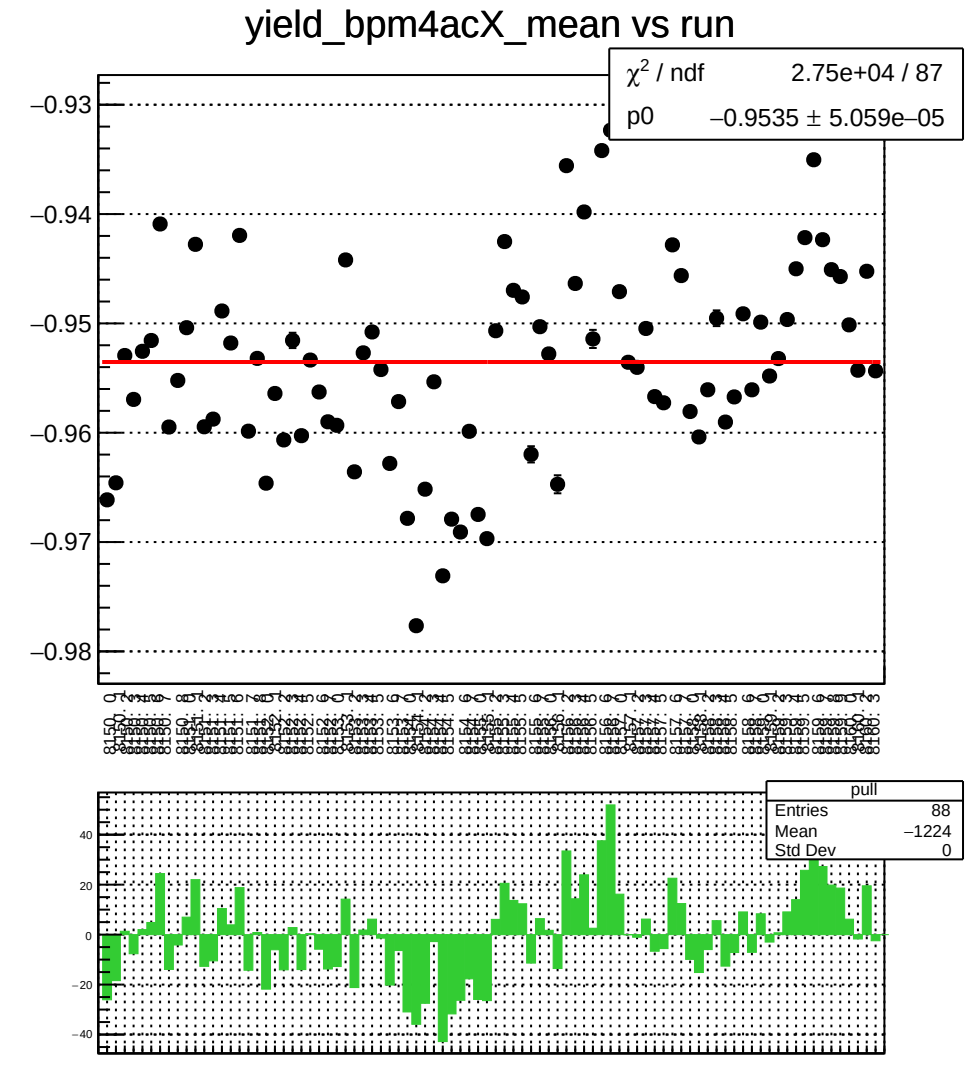

yield_bpm4eX_mean vs run
χ² / ndf 2.956e+04 / 87
p0 −0.1831 ± 4.865e−05
−0.16
−0.17
−0.18
−0.19
−0.2
−0.21
pull
Entries 88
Mean −521.8
Std Dev 0
60
40
20
0
−20
−40

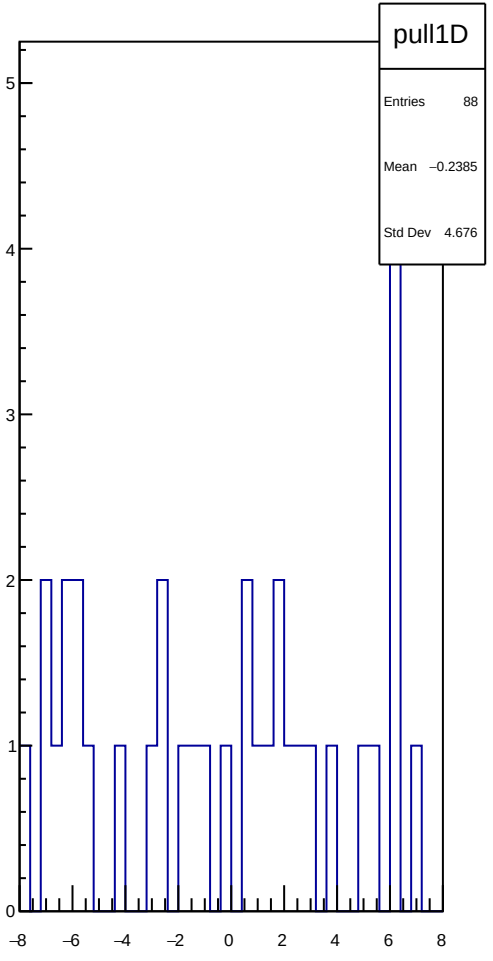

pull1D
Entries 88
Mean 0.05959
Std Dev 4.463
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

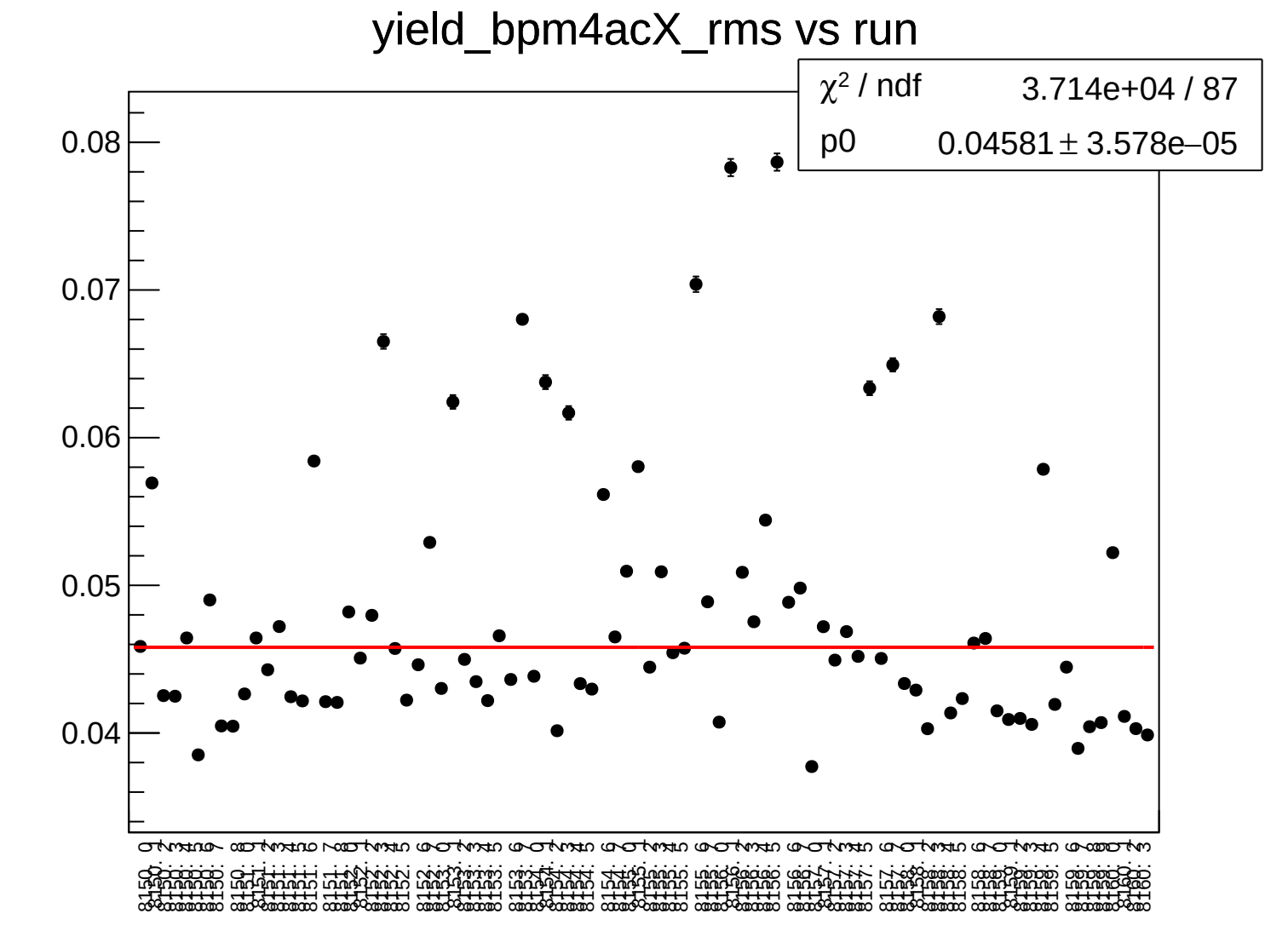

yield_bpm4eX_rms vs run
χ^2 / ndf 4.089e+04 / 87
p0 0.044 ± 3.44e−05
0.08
0.07
0.06
0.05
0.04

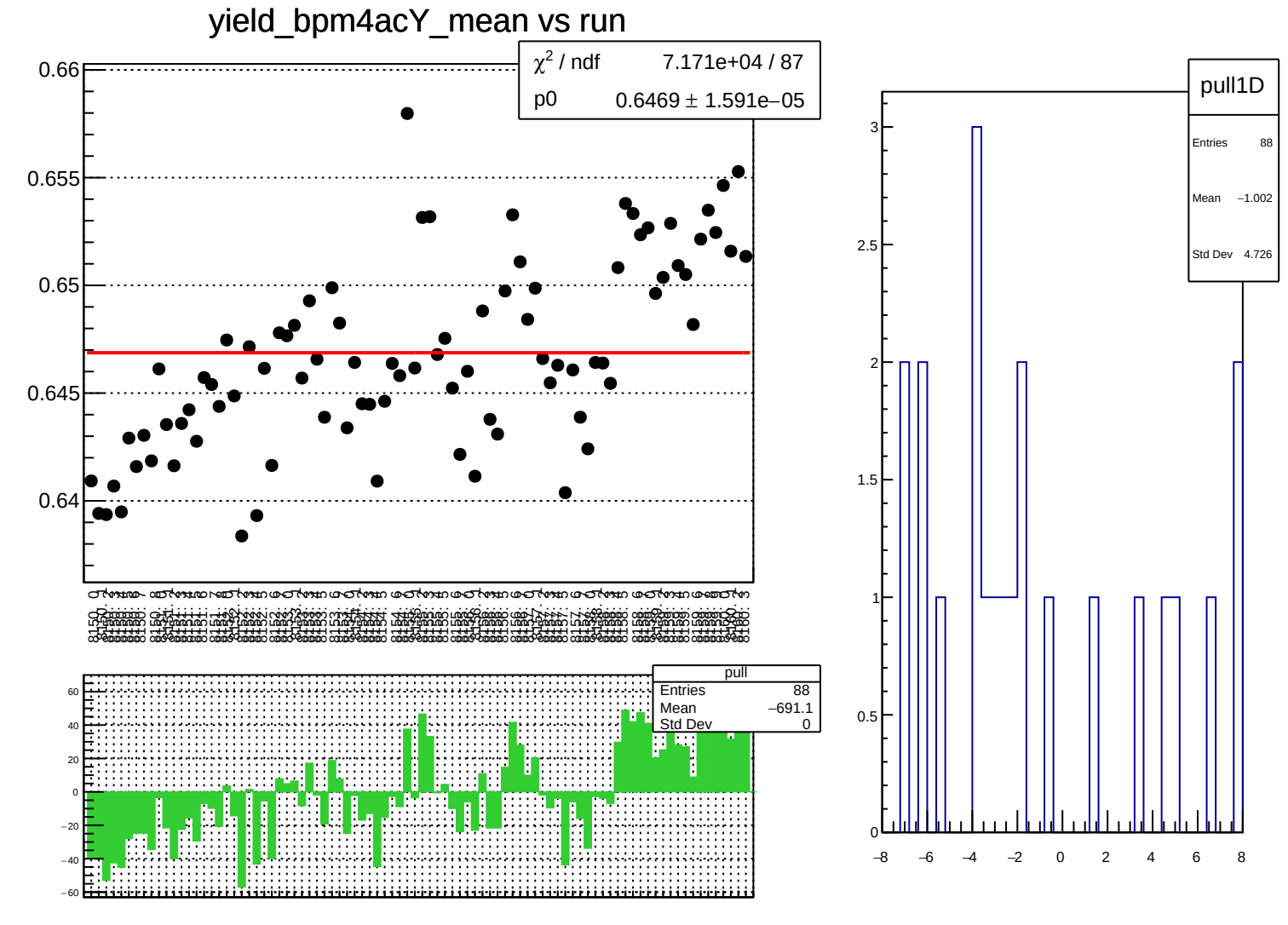

yield_bpm4eY_mean vs run
χ² / ndf 5.778e+04 / 87
p0 0.247 ± 1.502e−05
0.256
0.254
0.252
0.25
0.248
0.246
0.244
0.242
0.24
pull
Entries 88
Mean −587.6
Std Dev 0
60
40
20
0
−20
−40
−60
pull1D
Entries 88
Mean 0.1237
Std Dev 3.286
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

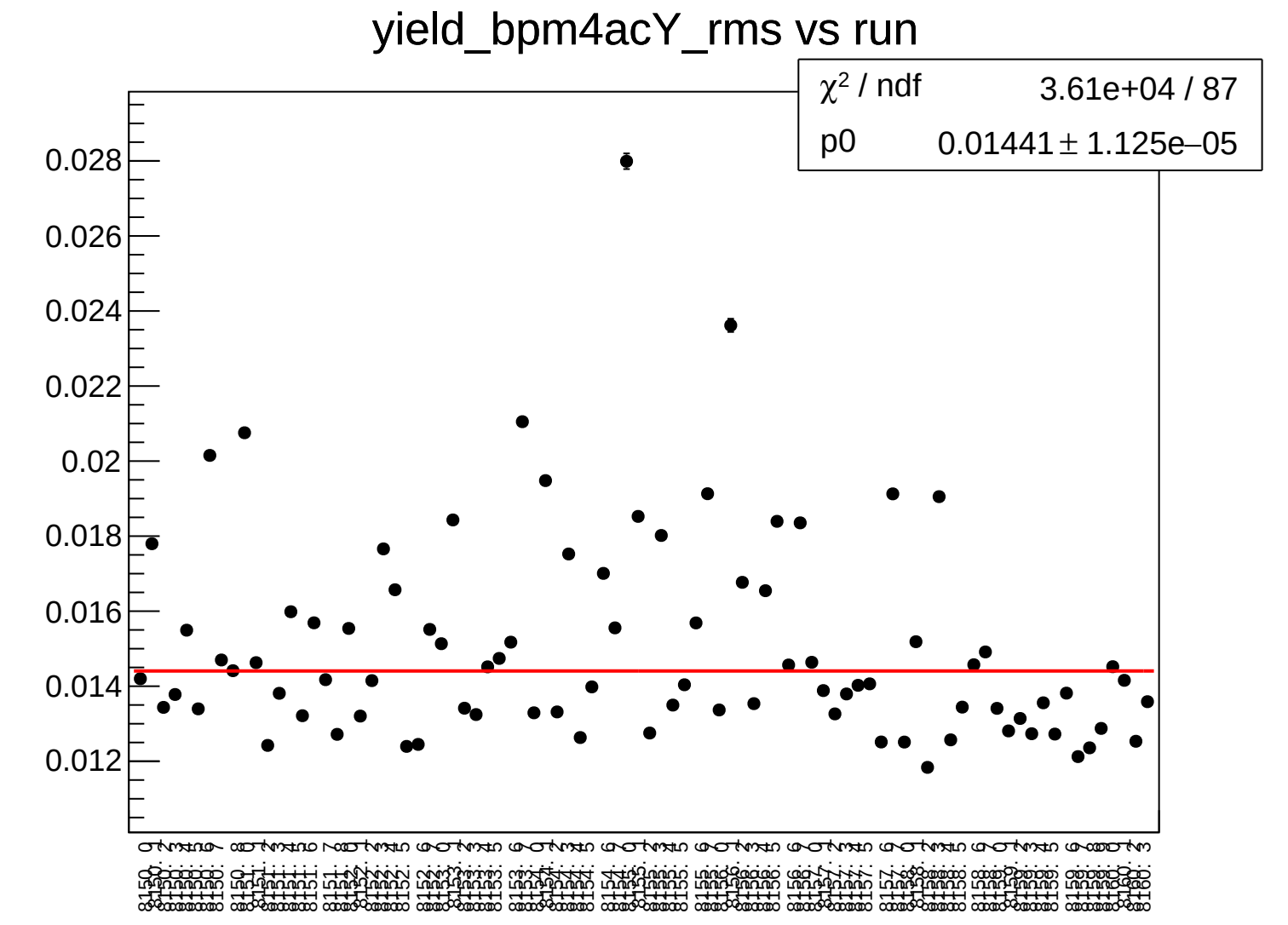

yield_bpm4eY_rms vs run
χ² / ndf 4.601e+04 / 87
p0 0.01356 ± 1.062e–05
0.03
0.025
0.02
0.015
0.01

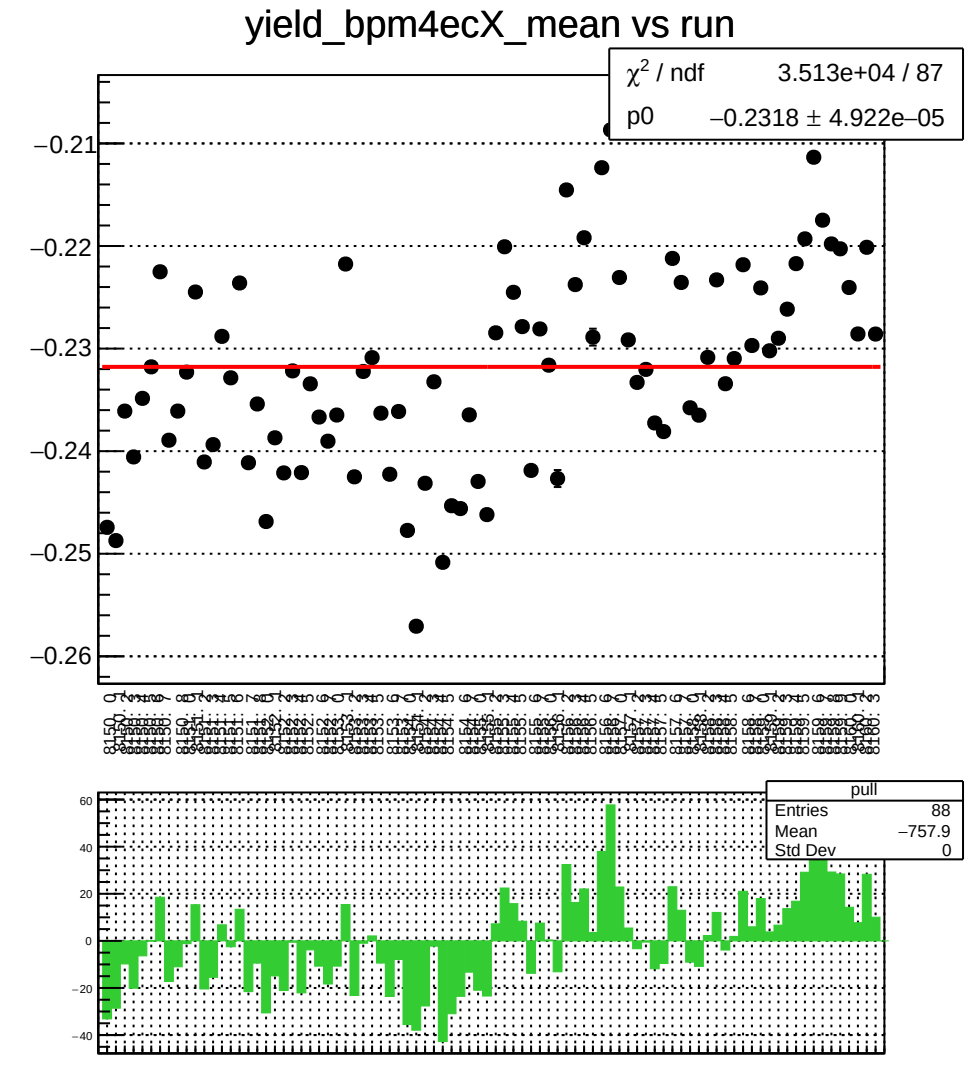

yield_bpm4acX_mean vs run
χ² / ndf 2.75e+04 / 87
p0 −0.9535 ± 5.059e−05
−0.93
−0.94
−0.95
−0.96
−0.97
−0.98
pull
Entries 88
Mean −1224
Std Dev 0
40
20
0
−20
−40

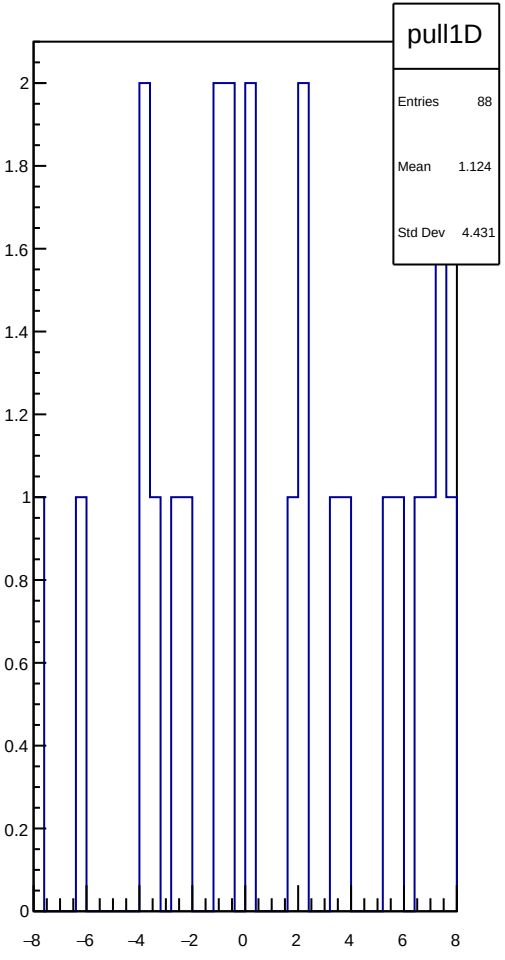

pull1D
Entries 88
Mean −0.2385
Std Dev 4.676
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

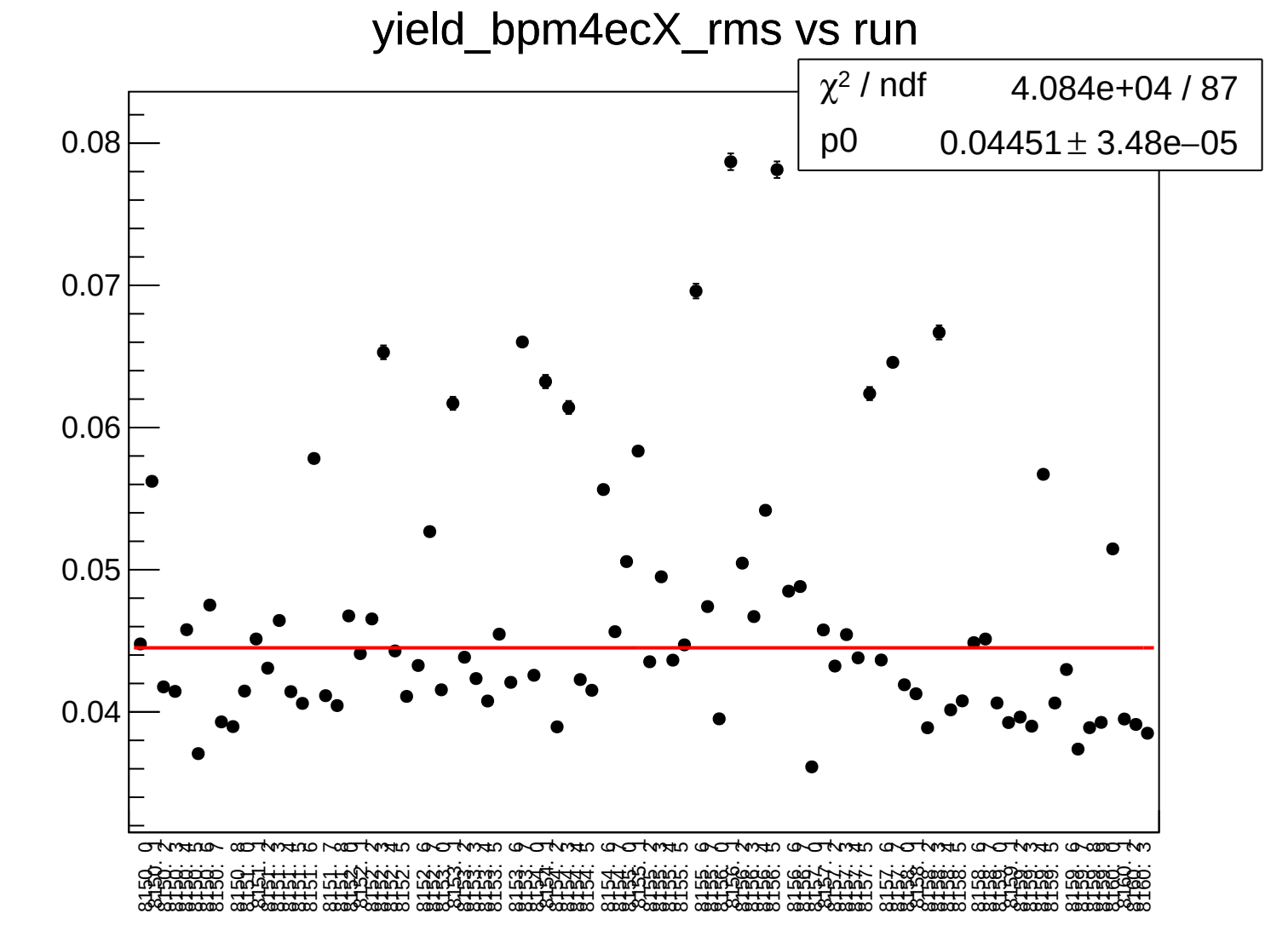

yield_bpm4acX_rms vs run
χ² / ndf 3.714e+04 / 87
p0 0.04581 ± 3.578e–05
0.08
0.07
0.06
0.05
0.04

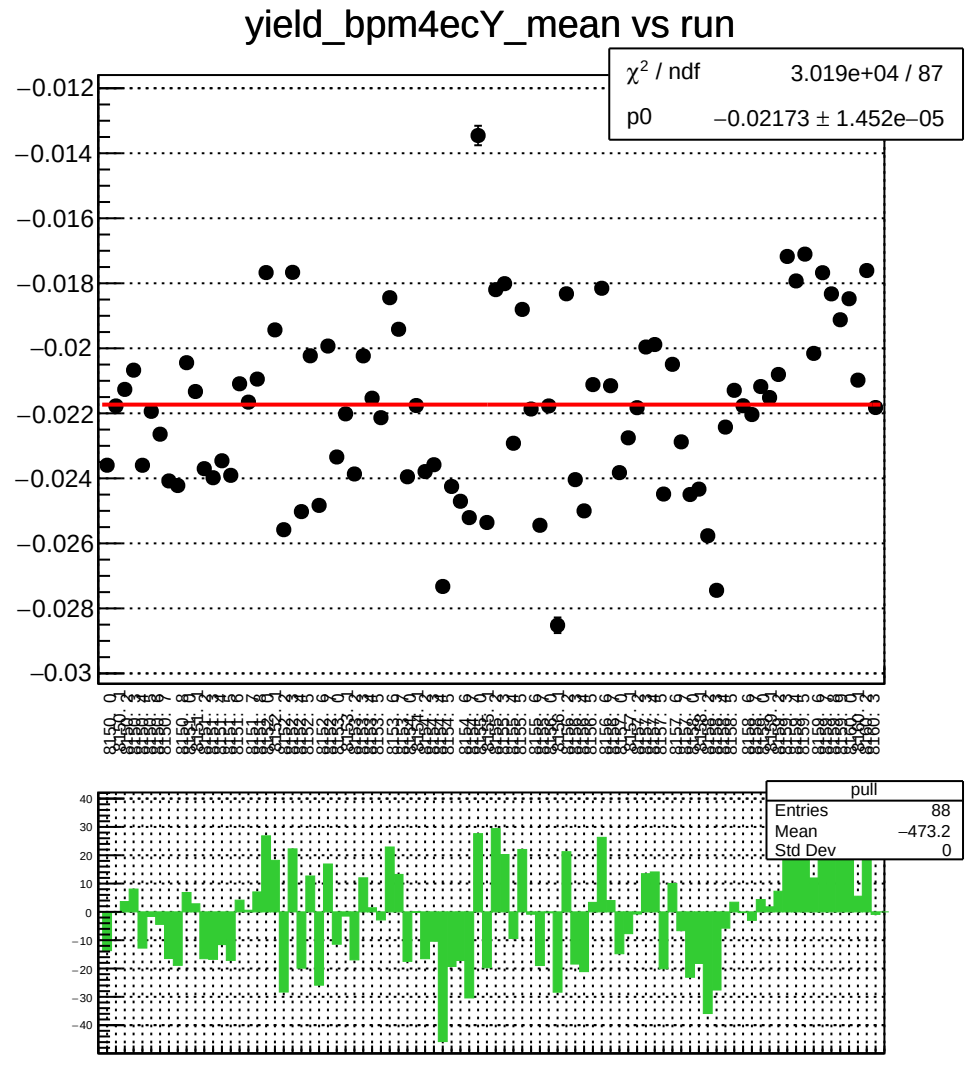

yield_bpm4acY_mean vs run
χ² / ndf 7.171e+04 / 87
p0 0.6469 ± 1.591e−05
0.66
0.655
0.65
0.645
0.64
pull
Entries 88
Mean −691.1
Std Dev 0
60
40
20
0
−20
−40
−60
pull1D
Entries 88
Mean −1.002
Std Dev 4.726
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

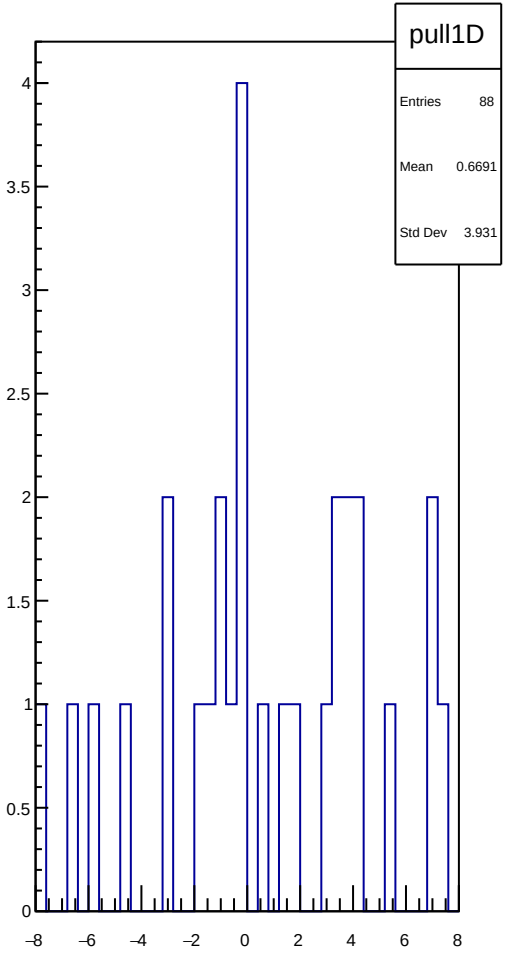

yield_bpm4acY_rms vs run
χ² / ndf 3.61e+04 / 87
p0 0.01441 ± 1.125e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

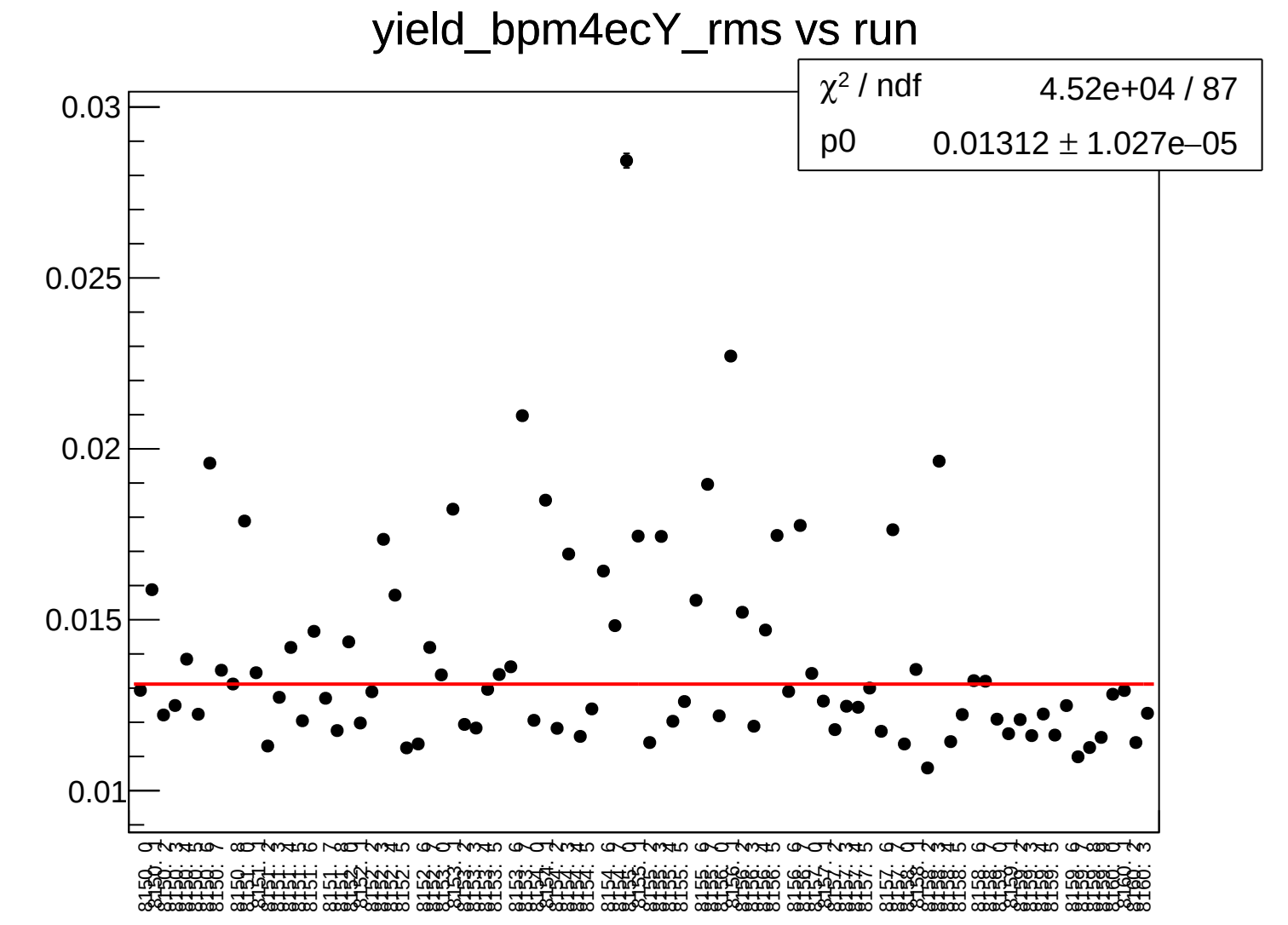

yield_bpm4ecX_mean vs run
χ² / ndf 3.513e+04 / 87
p0 −0.2318 ± 4.922e−05
−0.21
−0.22
−0.23
−0.24
−0.25
−0.26
pull
Entries 88
Mean −757.9
Std Dev 0
60
40
20
0
−20
−40

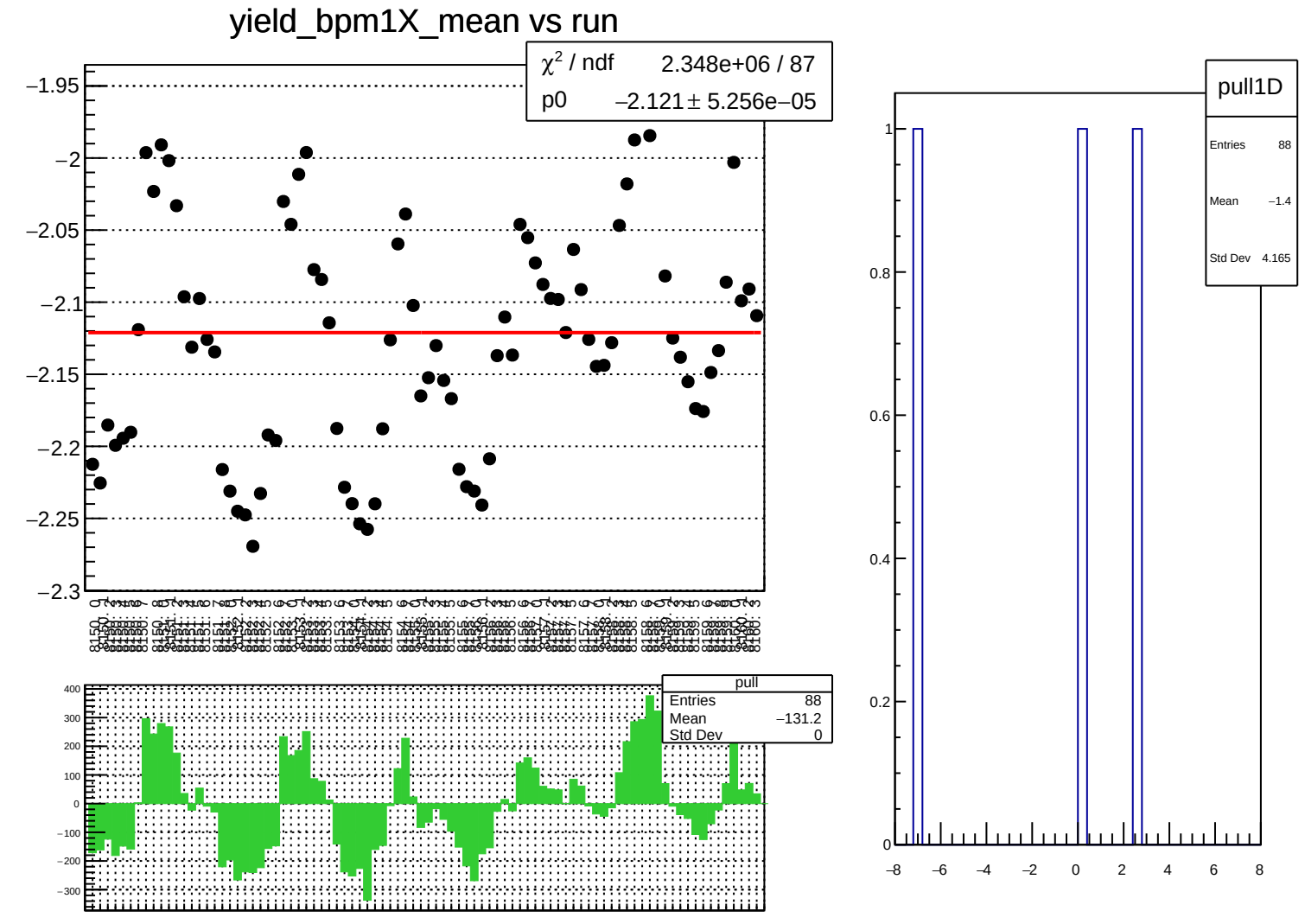

pull1D
Entries 88
Mean 1.124
Std Dev 4.431
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

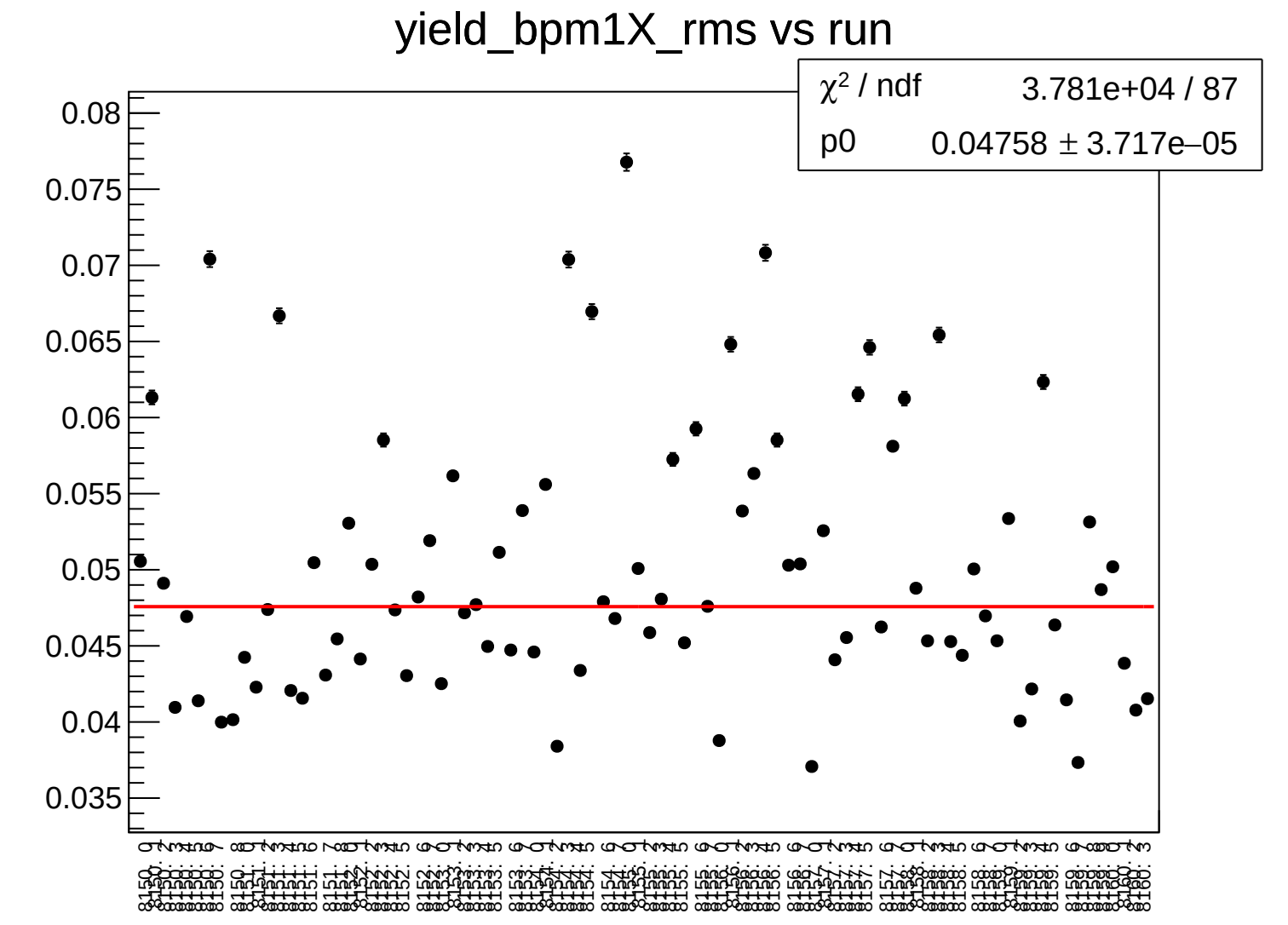

yield_bpm4ecX_rms vs run
χ² / ndf 4.084e+04 / 87
p0 0.04451 ± 3.48e−05
0.08
0.07
0.06
0.05
0.04

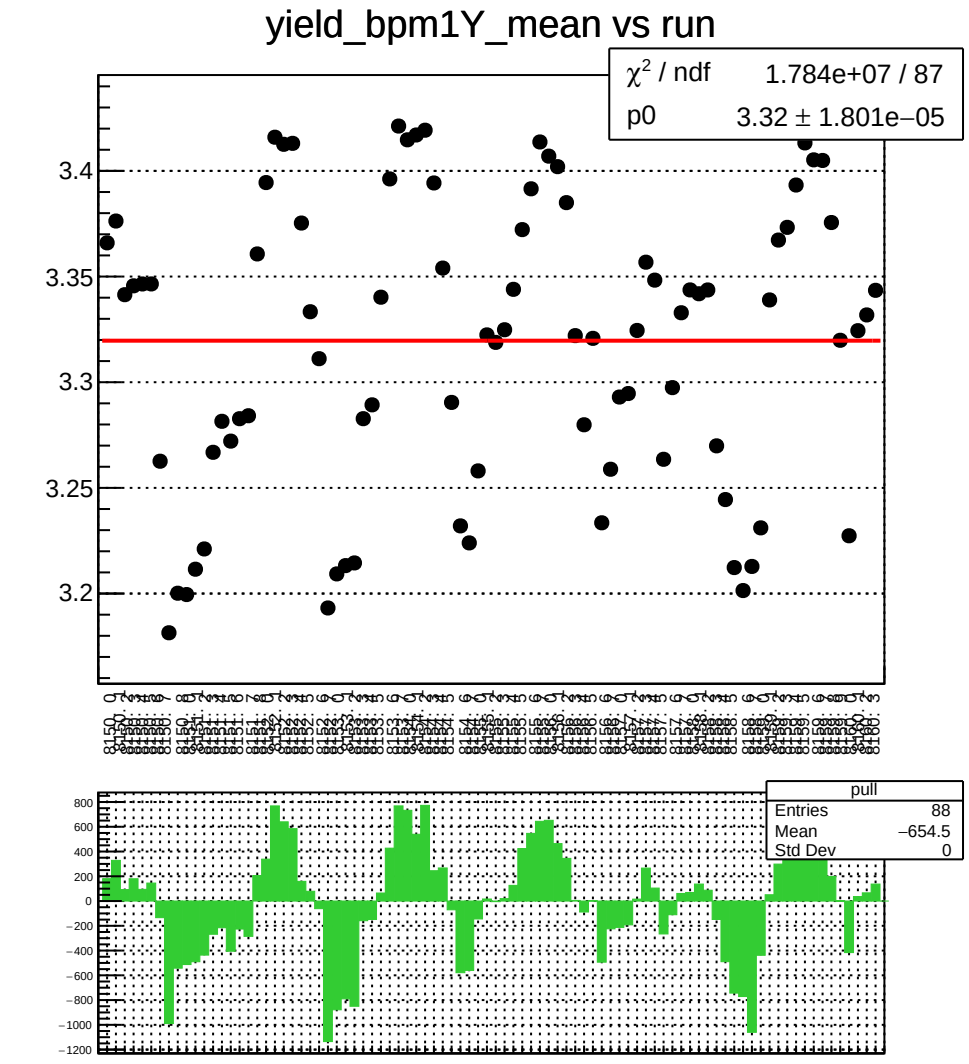

yield_bpm4ecY_mean vs run
χ² / ndf 3.019e+04 / 87
p0 −0.02173 ± 1.452e−05
pull
Entries 88
Mean −473.2
Std Dev 0

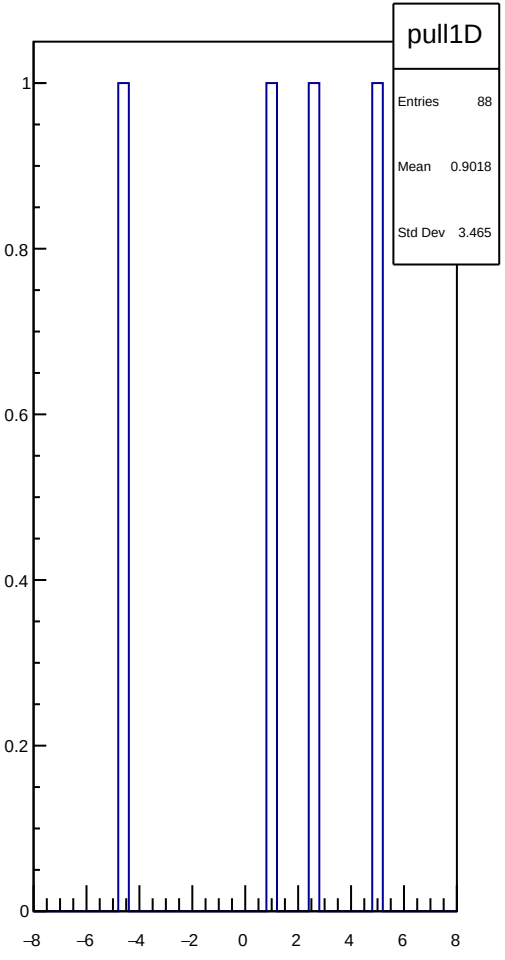

pull1D
Entries 88
Mean 0.6691
Std Dev 3.931

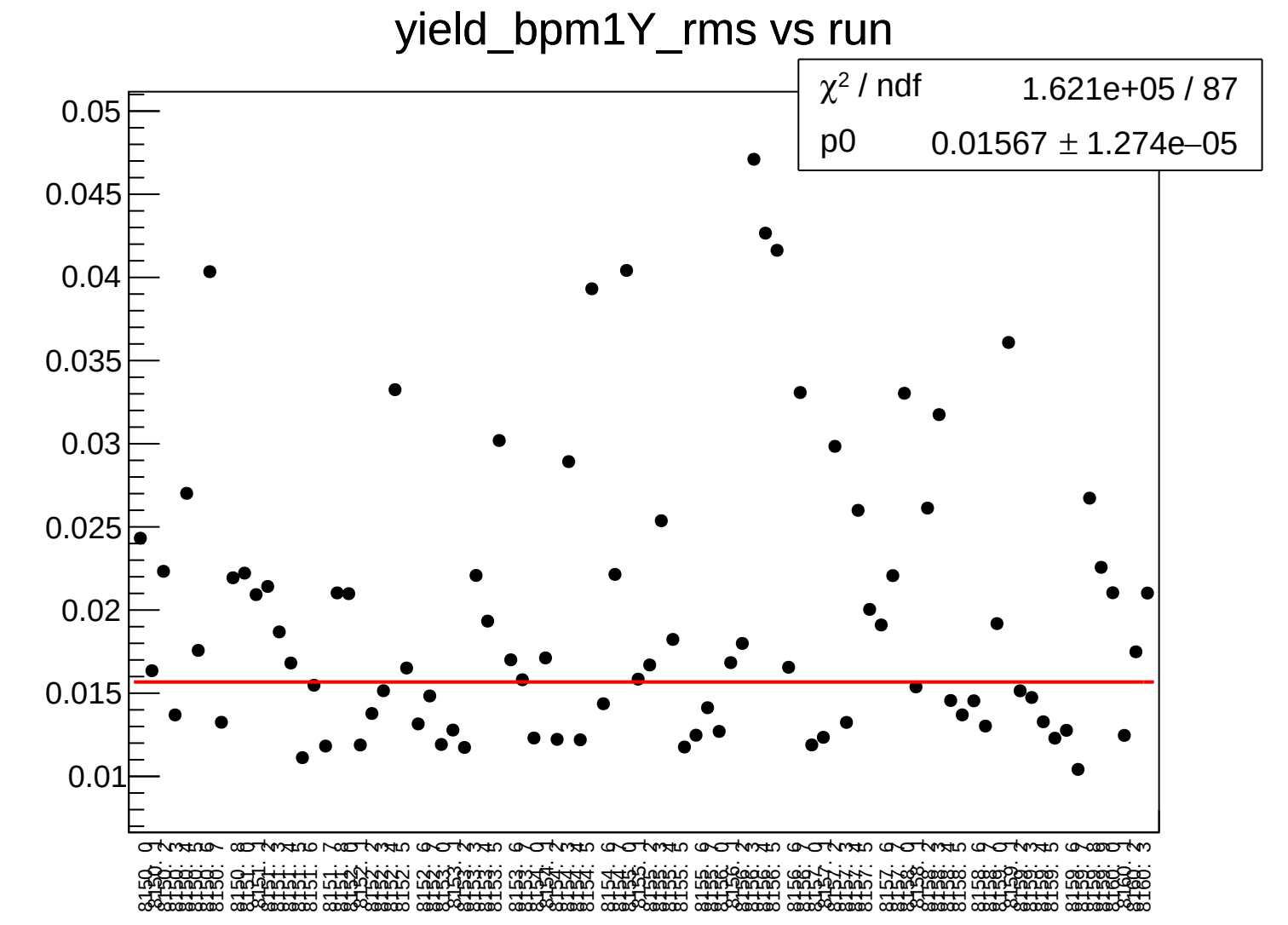

yield_bpm4ecY_rms vs run
χ² / ndf 4.52e+04 / 87
p0 0.01312 ± 1.027e–05
0.03
0.025
0.02
0.015
0.01

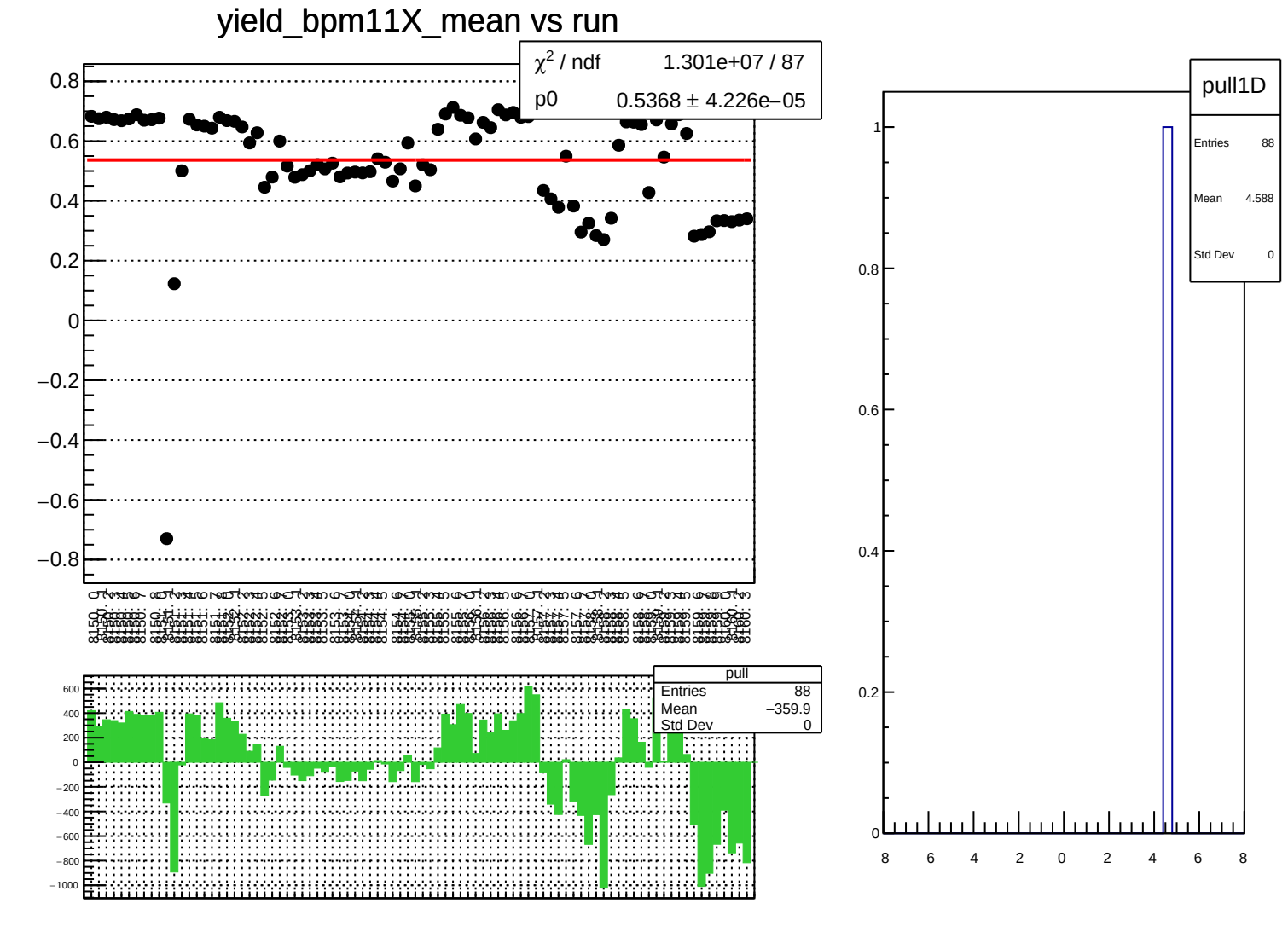

yield_bpm1X_mean vs run
χ² / ndf 2.348e+06 / 87
p0 −2.121 ± 5.256e−05
−1.95
−2
−2.05
−2.1
−2.15
−2.2
−2.25
−2.3
pull
Entries 88
Mean −131.2
Std Dev 0
400
300
200
100
0
−100
−200
−300
pull1D
Entries 88
Mean −1.4
Std Dev 4.165
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

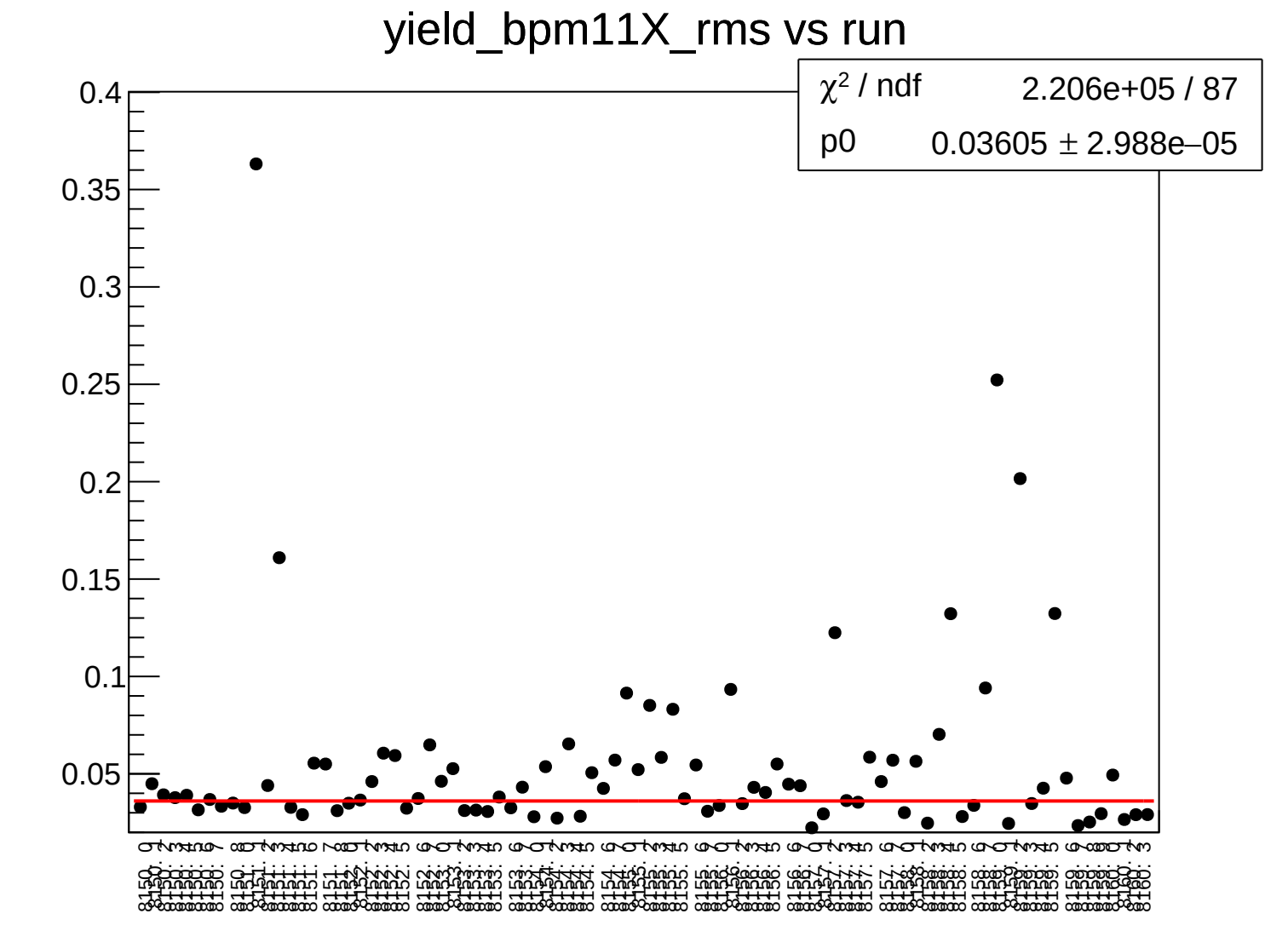

yield_bpm1X_rms vs run
χ² / ndf 3.781e+04 / 87
p0 0.04758 ± 3.717e–05
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035

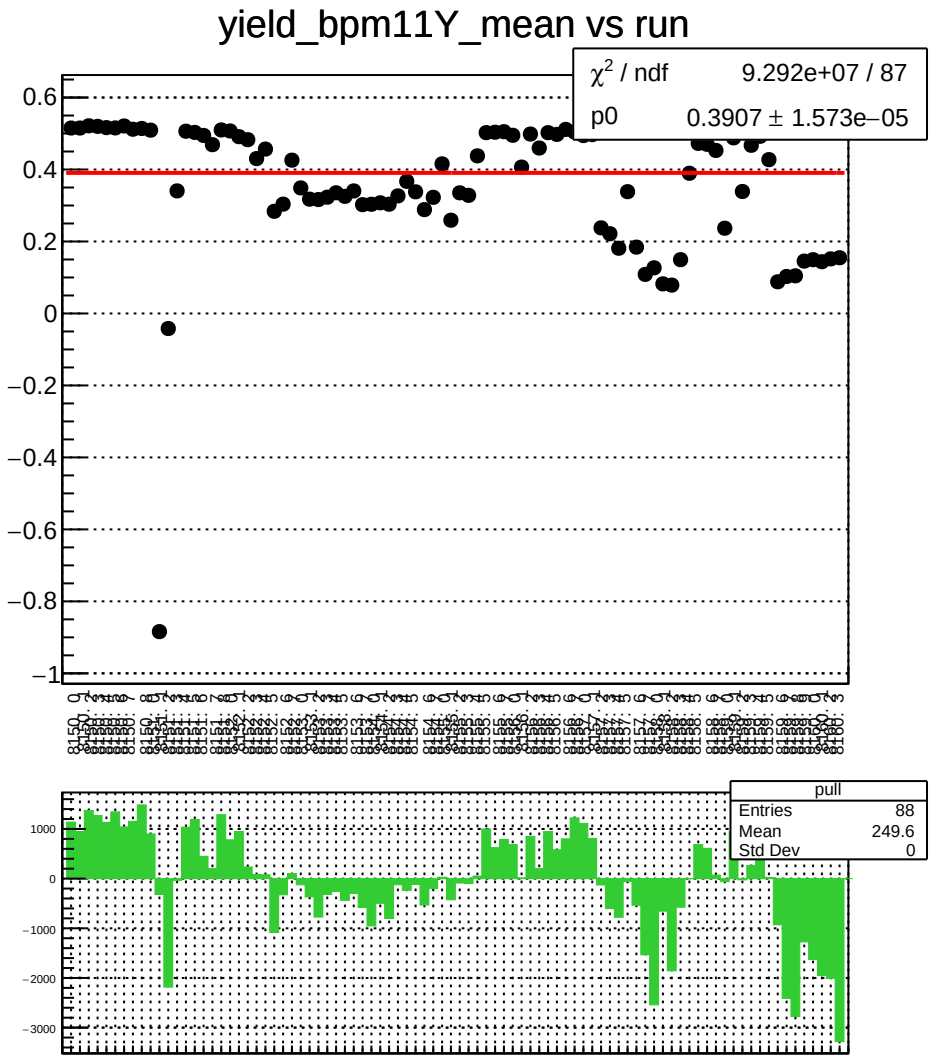

yield_bpm1Y_mean vs run
χ² / ndf 1.784e+07 / 87
p0 3.32 ± 1.801e−05
3.4
3.35
3.3
3.25
3.2
pull
Entries 88
Mean −654.5
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

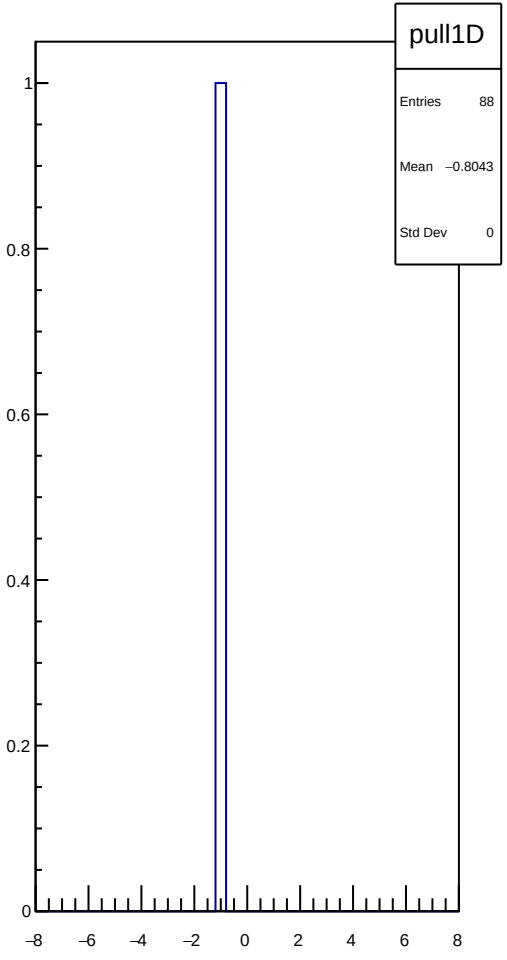

pull1D
Entries 88
Mean 0.9018
Std Dev 3.465
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

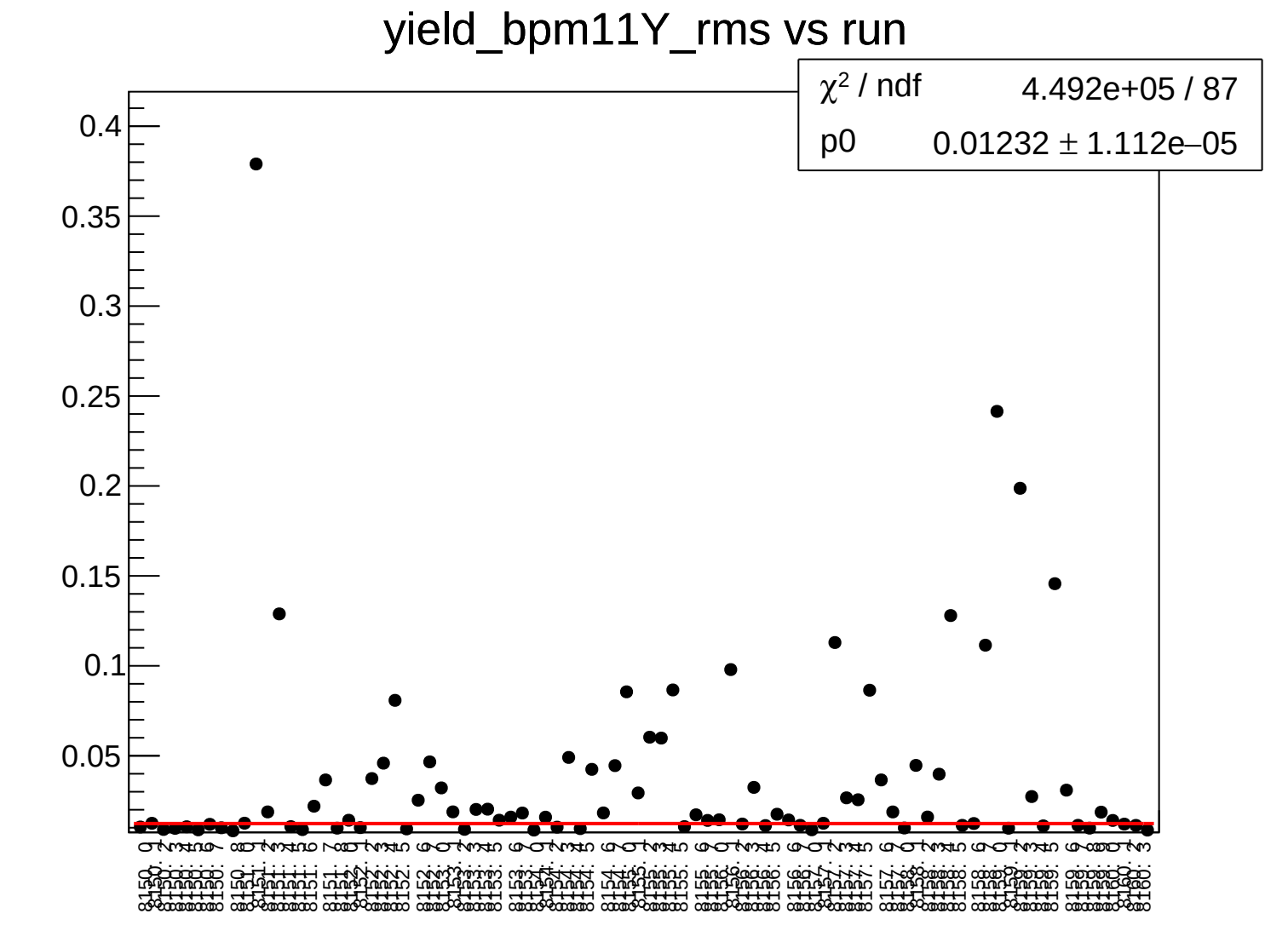

yield_bpm1Y_rms vs run
χ² / ndf 1.621e+05 / 87
p0 0.01567 ± 1.274e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

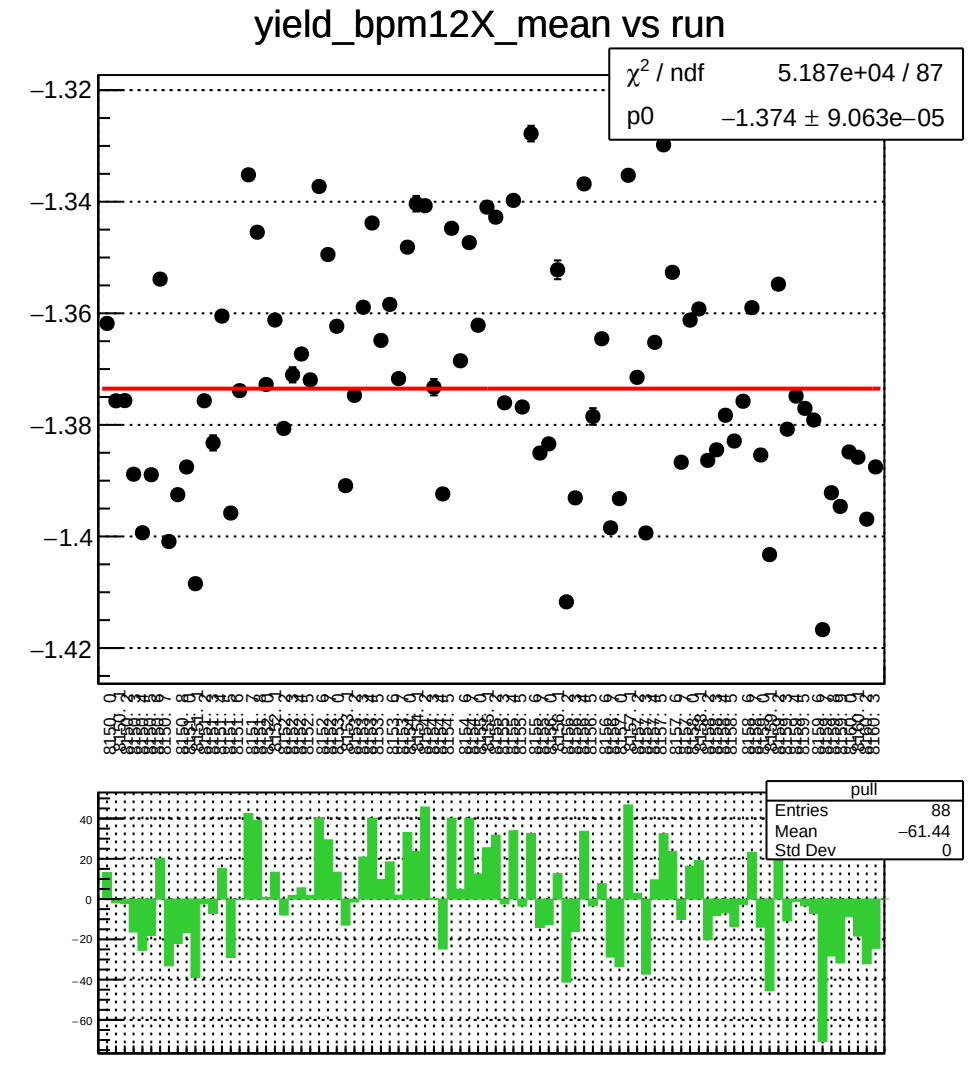

yield_bpm11X_mean vs run
χ² / ndf 1.301e+07 / 87
p0 0.5368 ± 4.226e−05
pull
Entries 88
Mean −359.9
Std Dev 0
pull1D
Entries 88
Mean 4.588
Std Dev 0

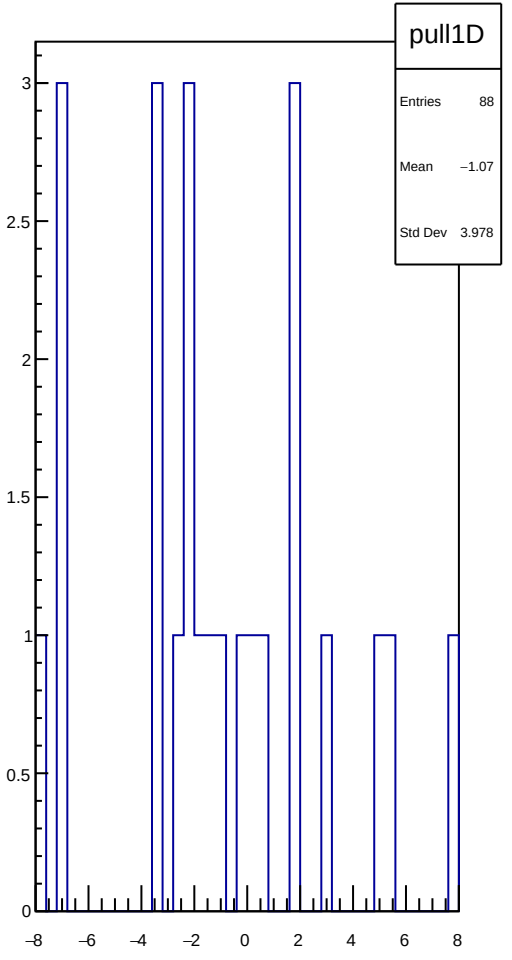

yield_bpm11X_rms vs run
χ² / ndf 2.206e+05 / 87
p0 0.03605 ± 2.988e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

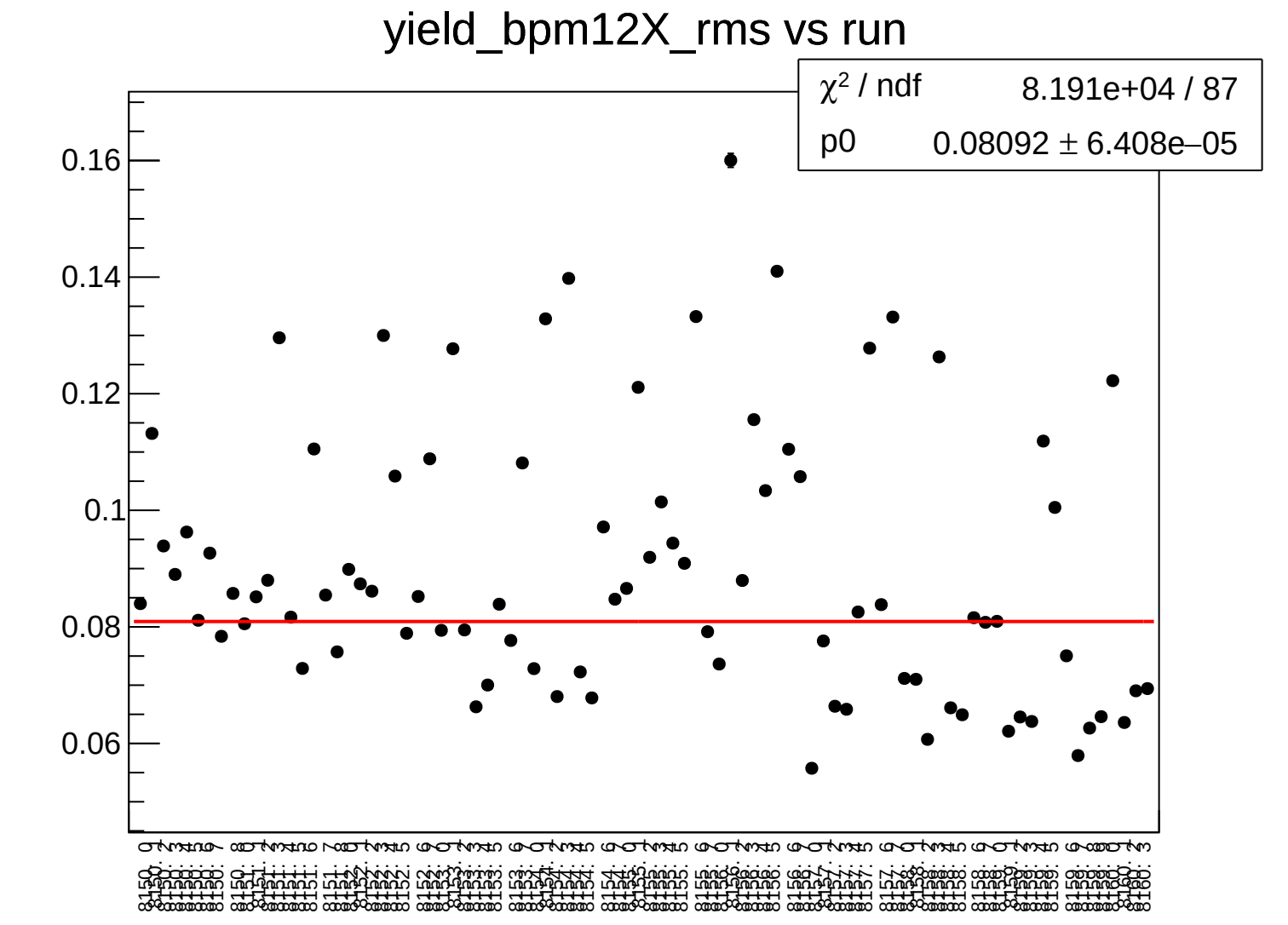

yield_bpm11Y_mean vs run
χ² / ndf 9.292e+07 / 87
p0 0.3907 ± 1.573e−05
pull
Entries 88
Mean 249.6
Std Dev 0

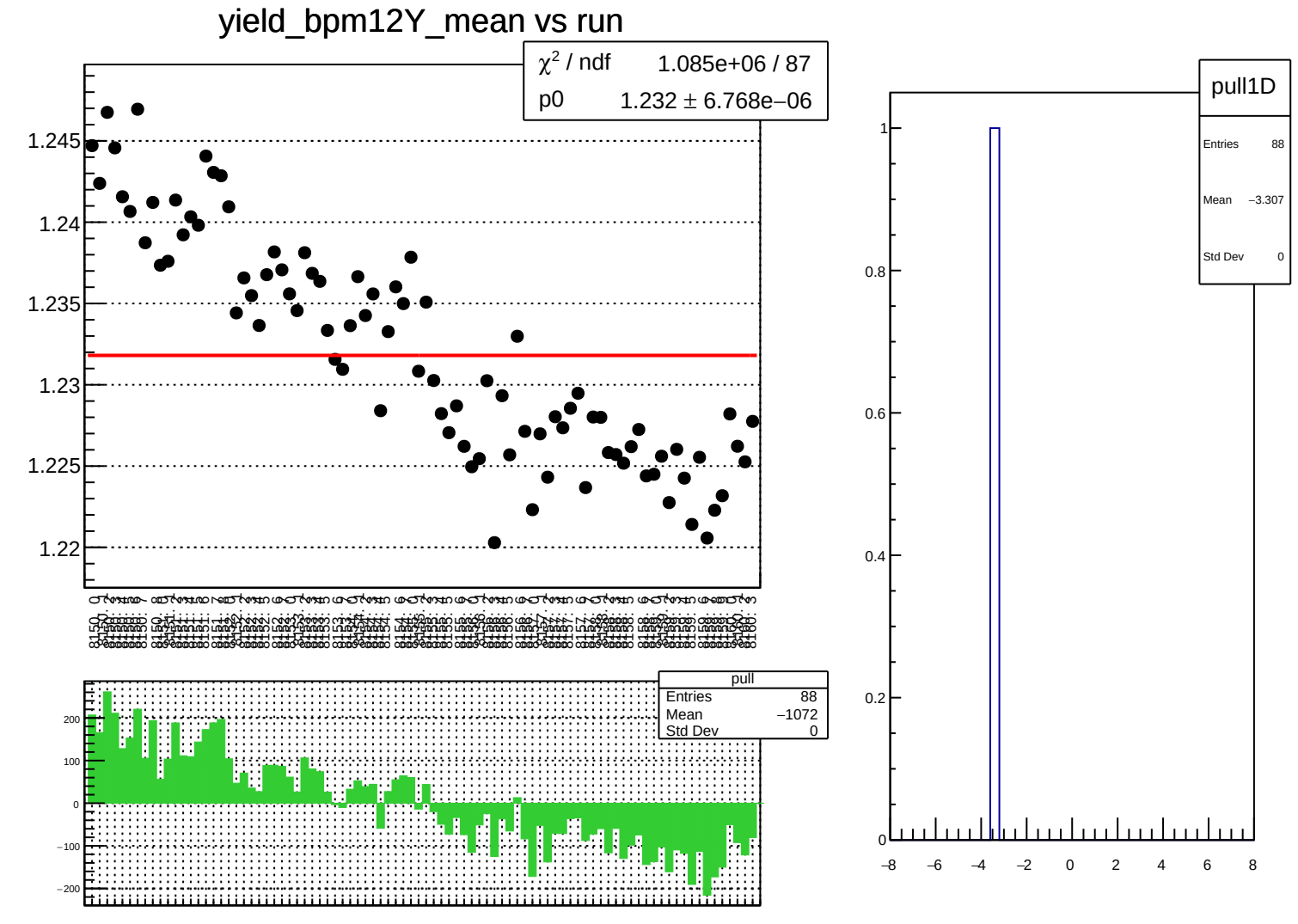

pull1D
Entries 88
Mean −0.8043
Std Dev 0

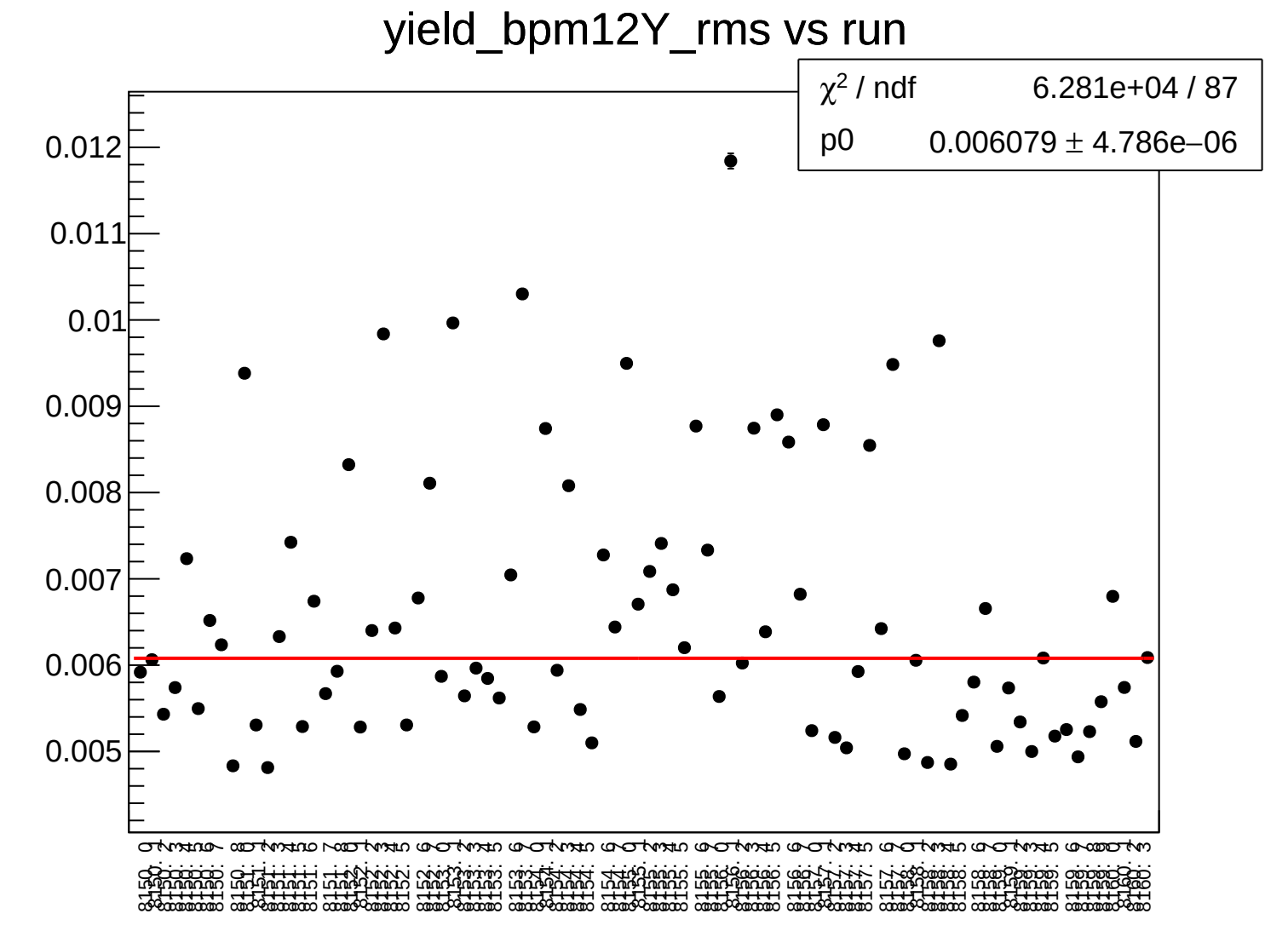

yield_bpm11Y_rms vs run
χ² / ndf 4.492e+05 / 87
p0 0.01232 ± 1.112e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

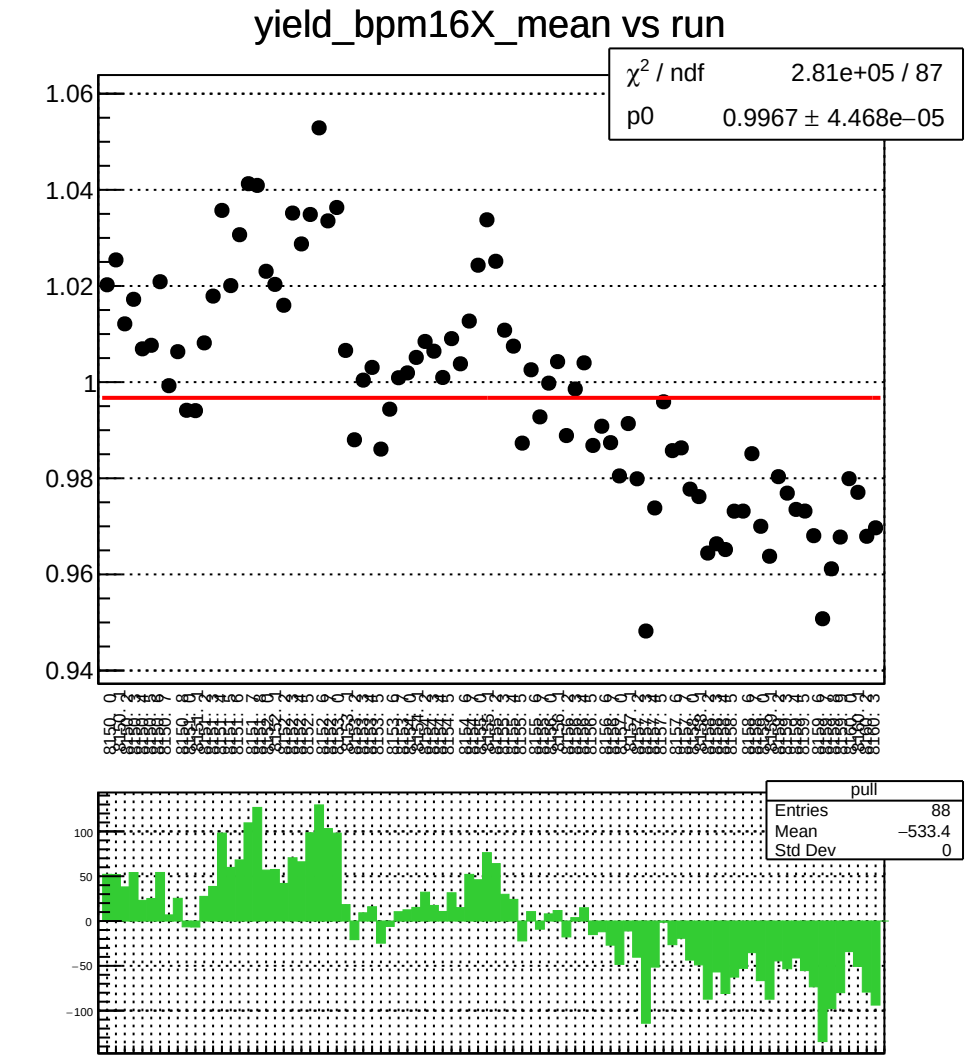

yield_bpm12X_mean vs run
χ² / ndf 5.187e+04 / 87
p0 −1.374 ± 9.063e−05
−1.32
−1.34
−1.36
−1.38
−1.4
−1.42
pull
Entries 88
Mean −61.44
Std Dev 0
40
20
0
−20
−40
−60

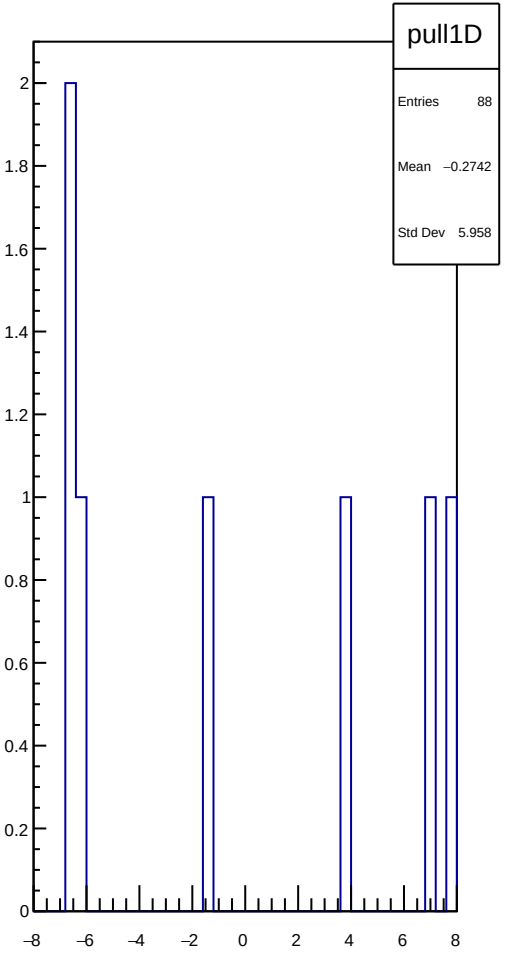

pull1D
Entries 88
Mean −1.07
Std Dev 3.978
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

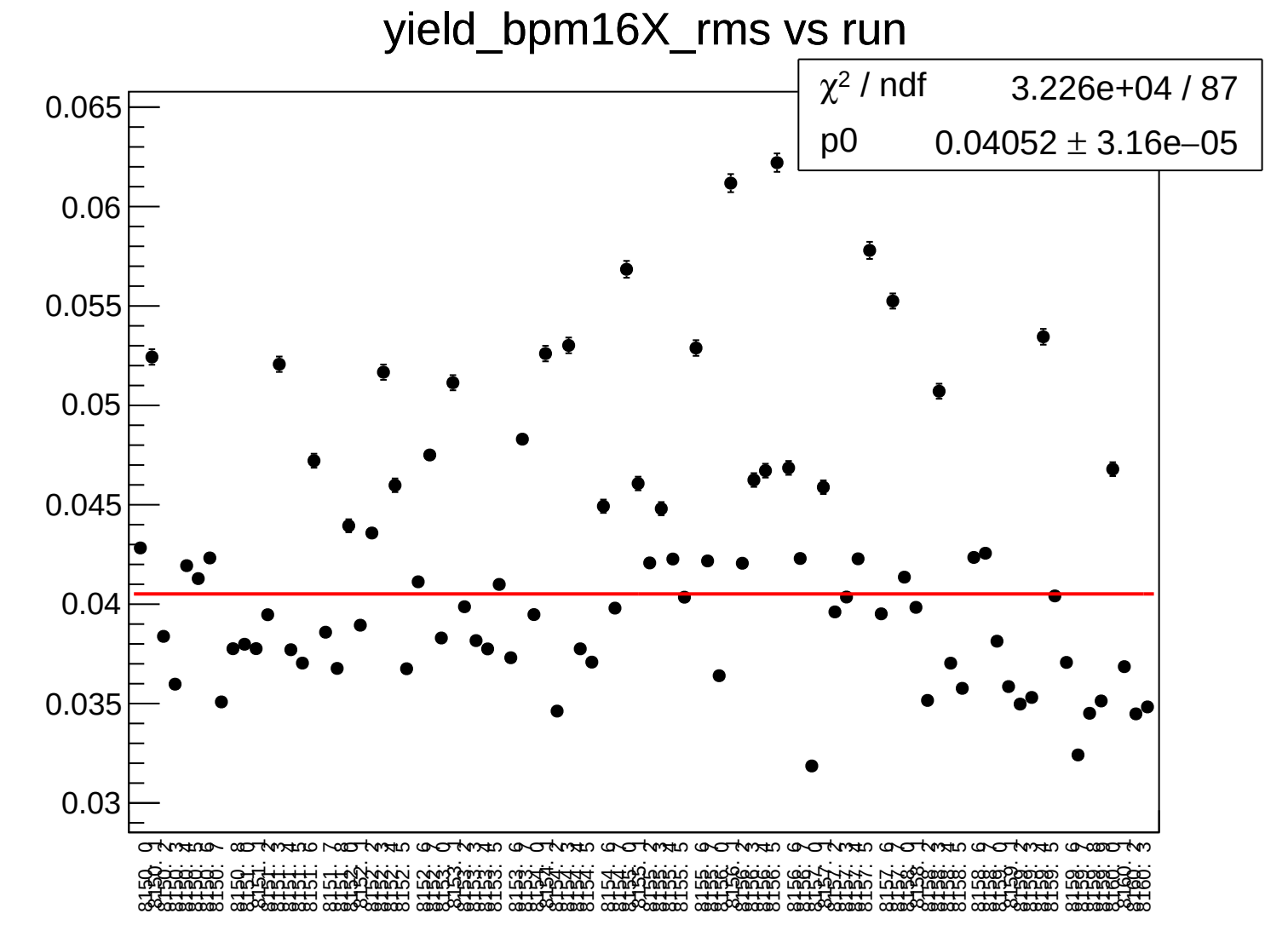

yield_bpm12X_rms vs run
χ² / ndf 8.191e+04 / 87
p0 0.08092 ± 6.408e–05
0.16
0.14
0.12
0.1
0.08
0.06

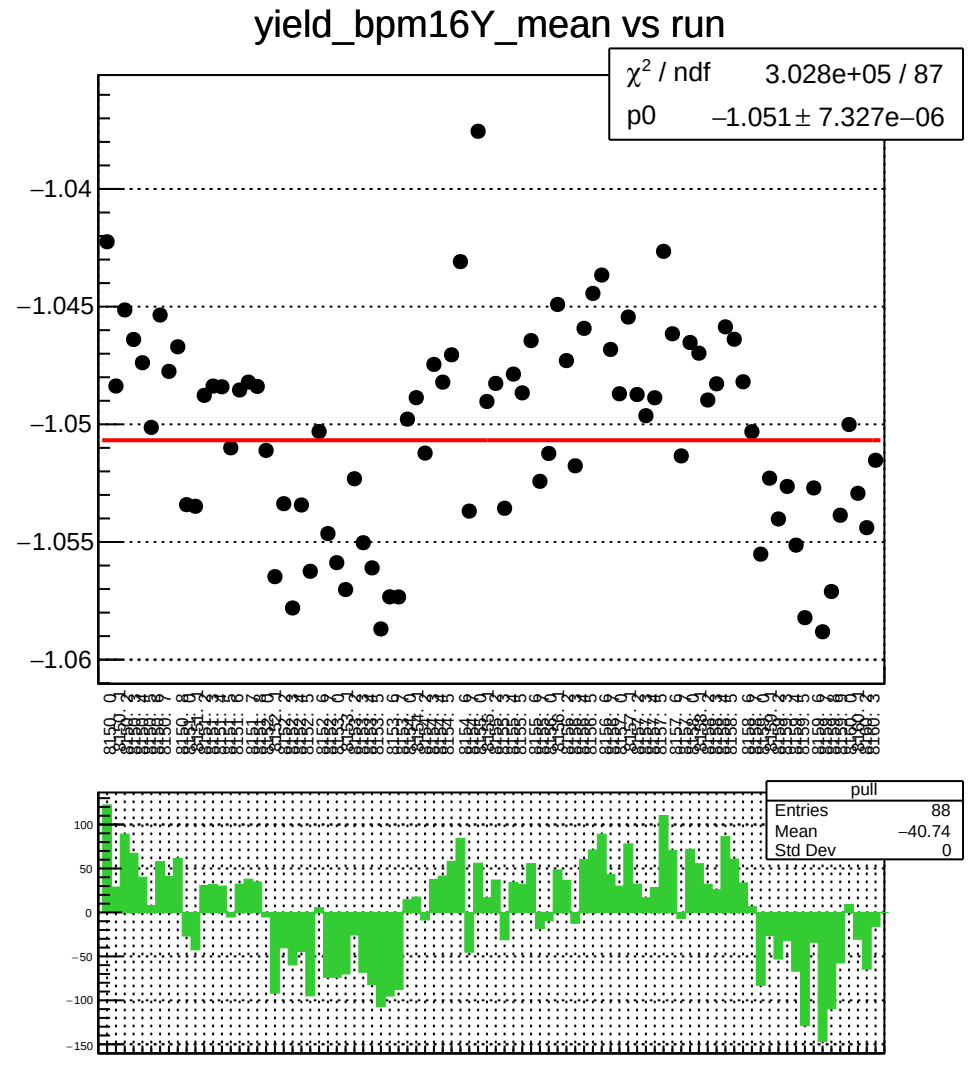

yield_bpm12Y_mean vs run
χ² / ndf 1.085e+06 / 87
p0 1.232 ± 6.768e−06
1.245
1.24
1.235
1.23
1.225
1.22
pull
Entries 88
Mean −1072
Std Dev 0
200
100
0
−100
−200
pull1D
Entries 88
Mean −3.307
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

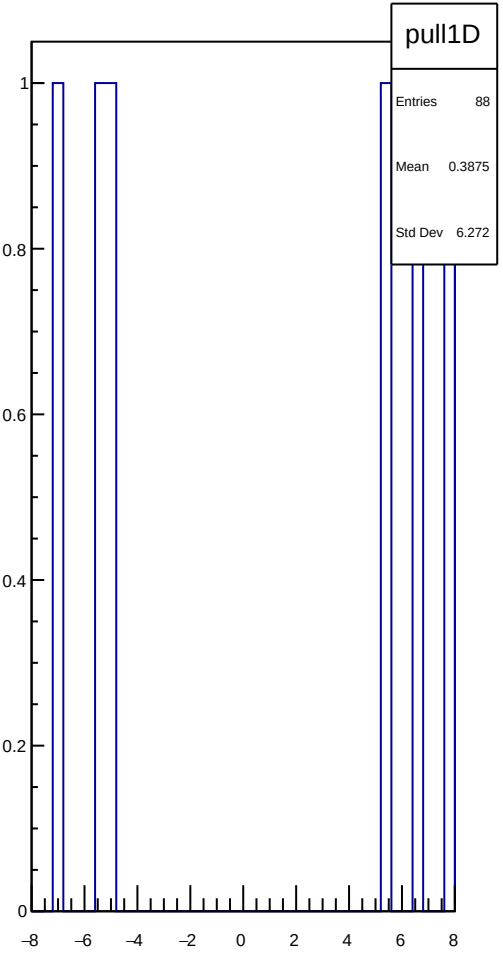

yield_bpm12Y_rms vs run
χ² / ndf 6.281e+04 / 87
p0 0.006079 ± 4.786e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

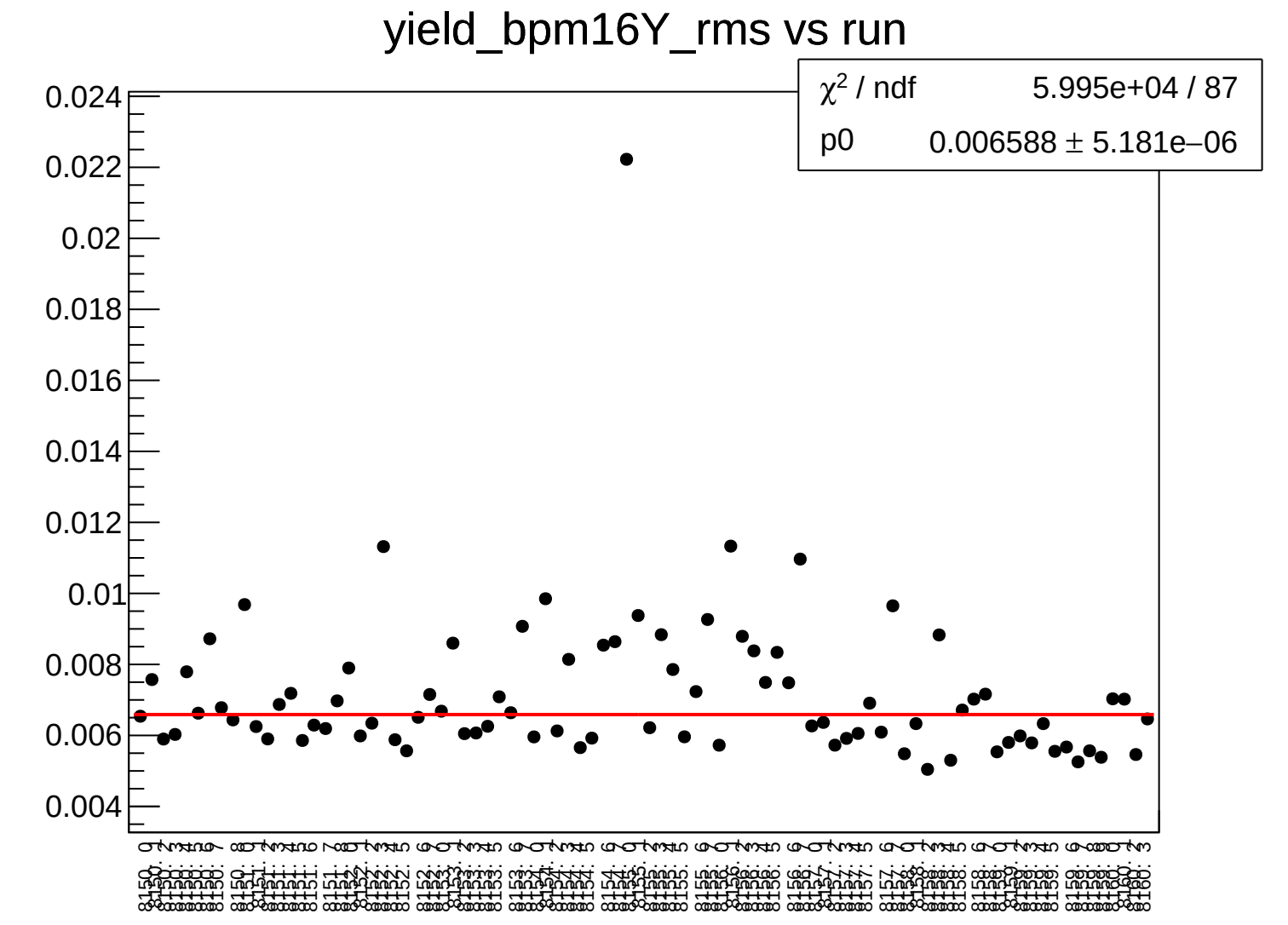

yield_bpm16X_mean vs run
χ² / ndf 2.81e+05 / 87
p0 0.9967 ± 4.468e−05
1.06
1.04
1.02
1
0.98
0.96
0.94
pull
Entries 88
Mean −533.4
Std Dev 0
100
50
0
−50
−100

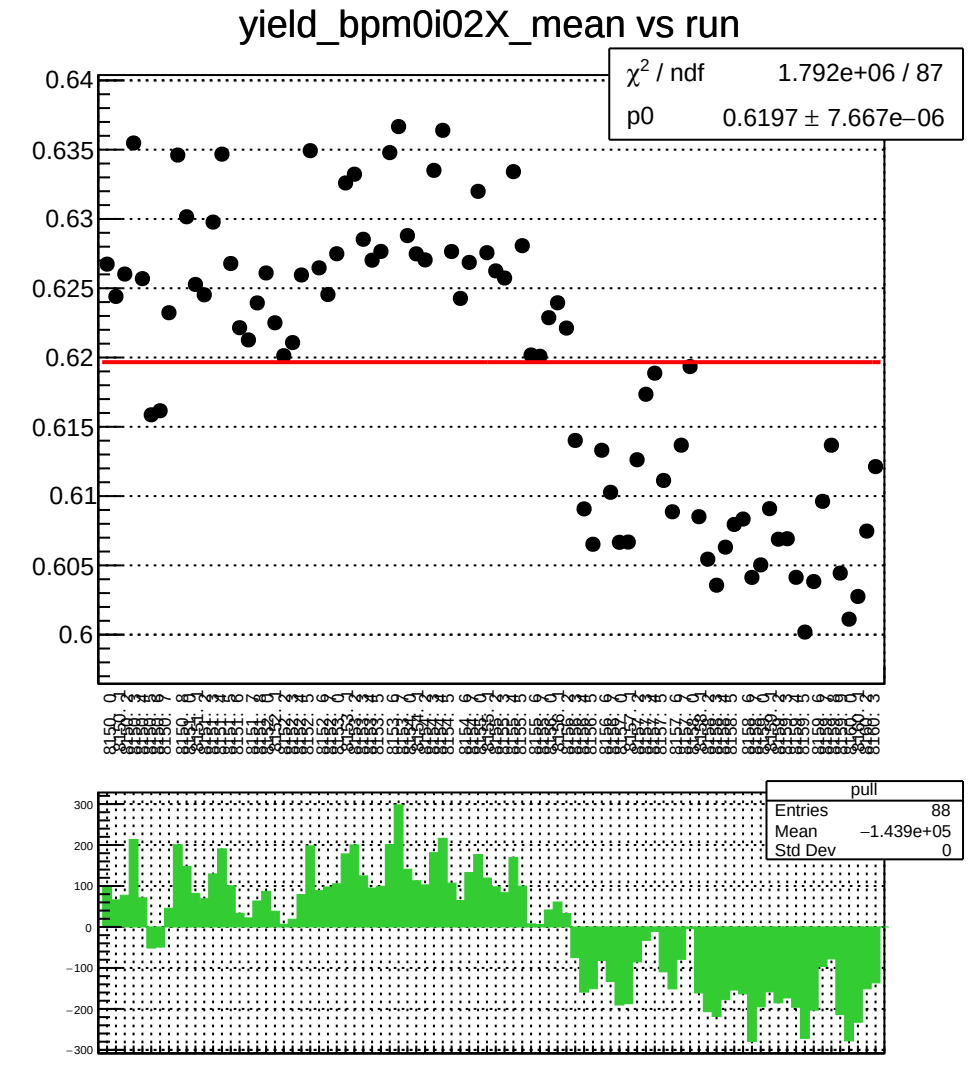

pull1D
Entries 88
Mean −0.2742
Std Dev 5.958
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

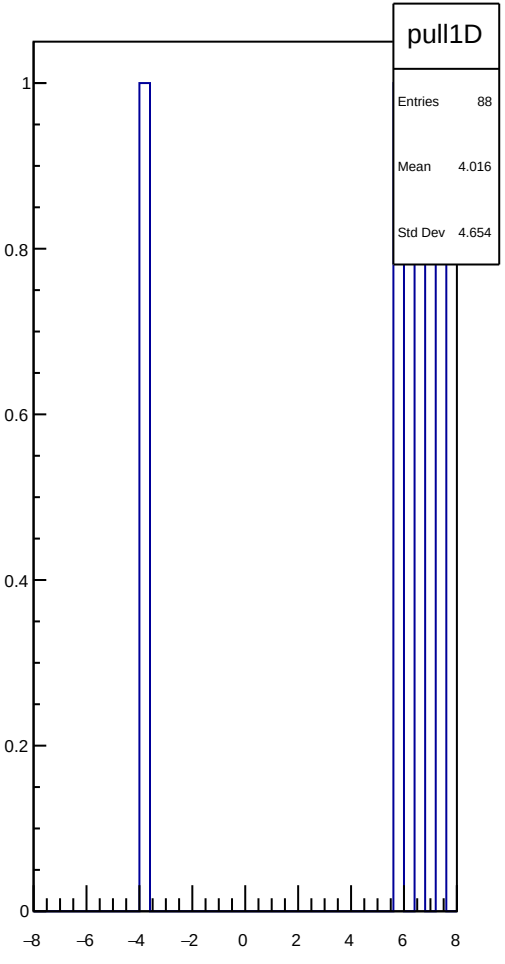

yield_bpm16X_rms vs run
χ² / ndf 3.226e+04 / 87
p0 0.04052 ± 3.16e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03


yield_bpm16Y_mean vs run
χ² / ndf 3.028e+05 / 87
p0 −1.051 ± 7.327e−06
−1.04
−1.045
−1.05
−1.055
−1.06
pull
Entries 88
Mean −40.74
Std Dev 0
100
50
0
−50
−100
−150

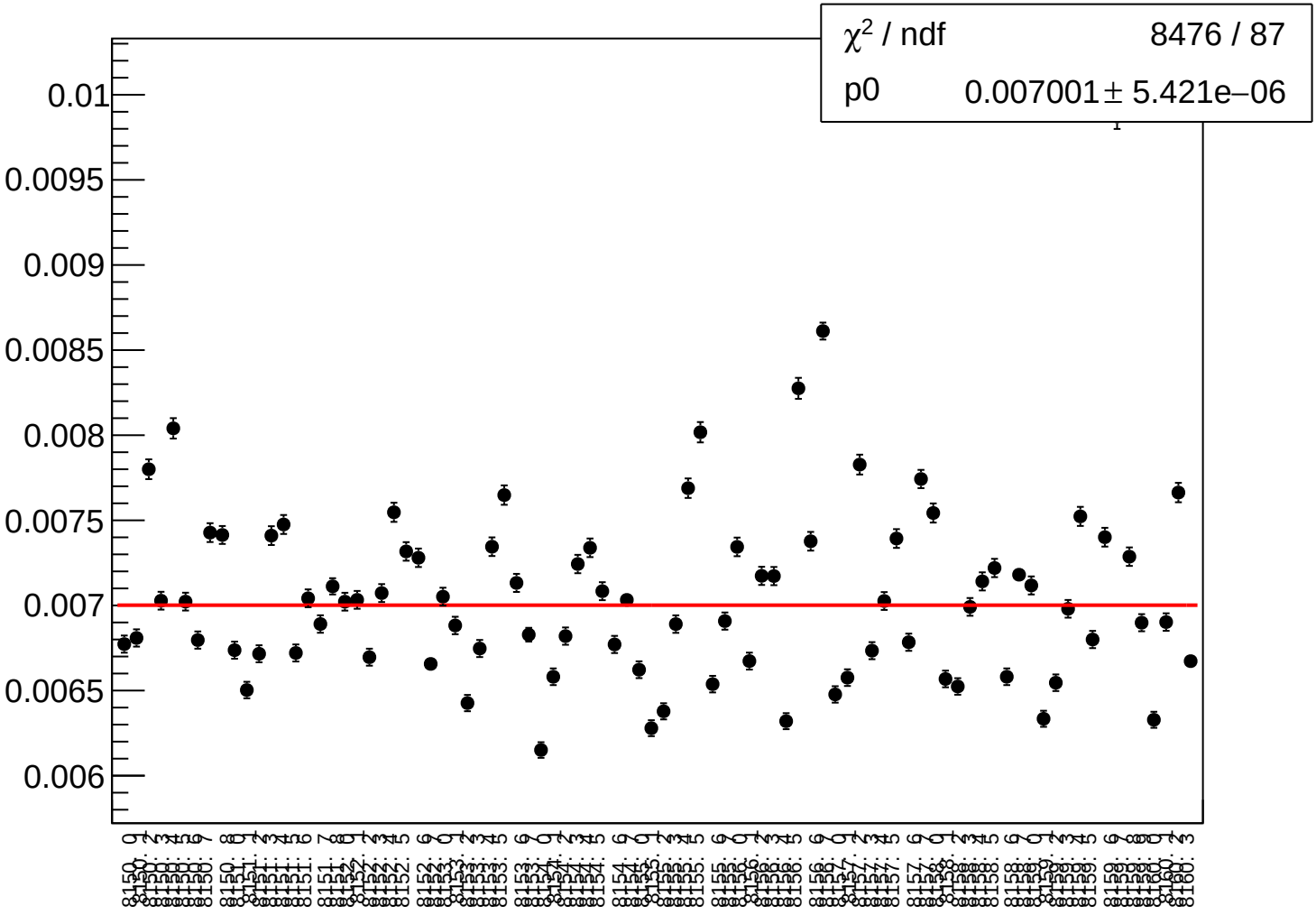

pull1D
Entries 88
Mean 0.3875
Std Dev 6.272
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

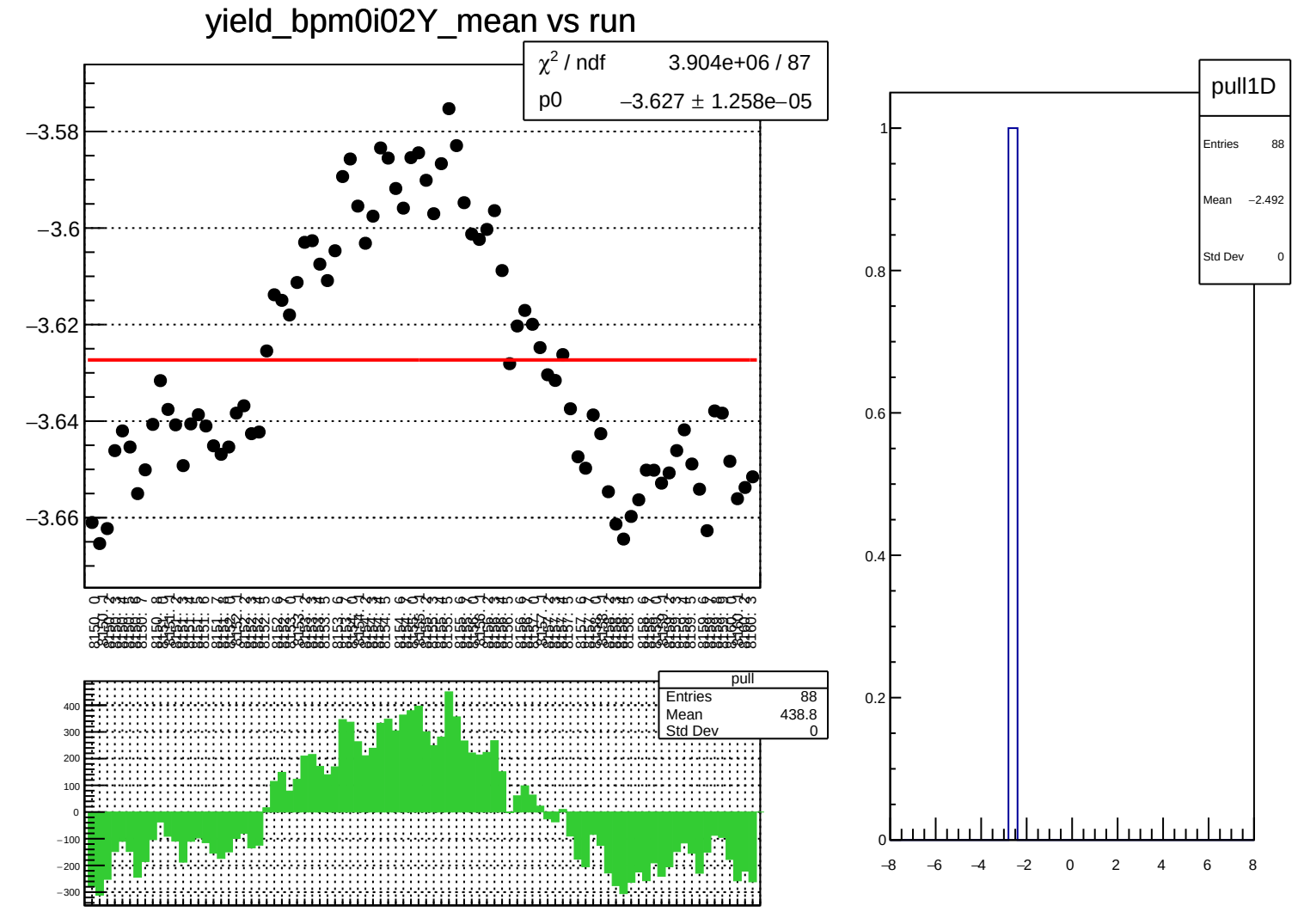

yield_bpm16Y_rms vs run
χ^2 / ndf 5.995e+04 / 87
p0 0.006588 ± 5.181e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

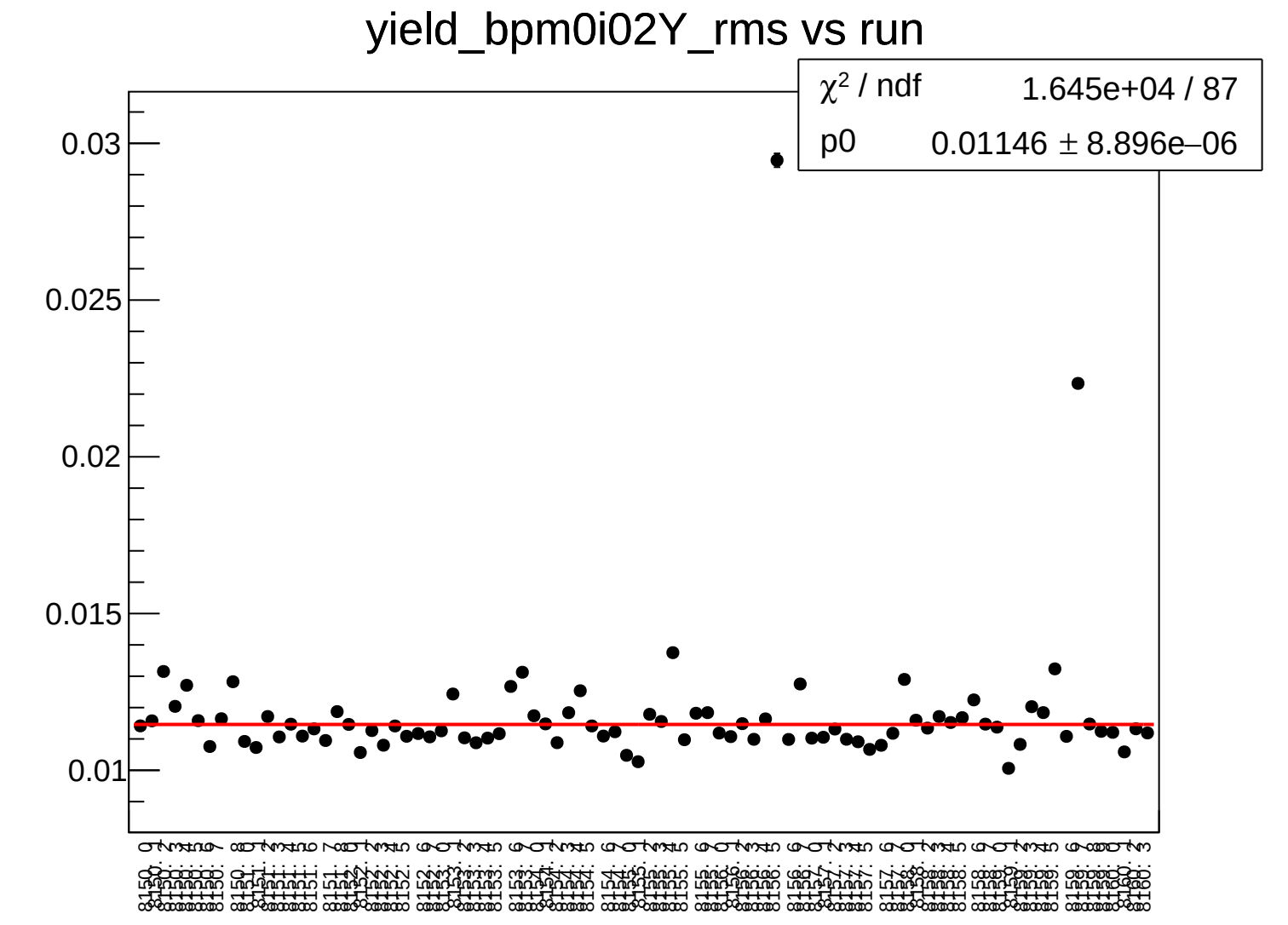

yield_bpm0i02X_mean vs run
χ² / ndf 1.792e+06 / 87
p0 0.6197 ± 7.667e−06
0.64
0.635
0.63
0.625
0.62
0.615
0.61
0.605
0.6
pull
Entries 88
Mean −1.439e+05
Std Dev 0
300
200
100
0
−100
−200
−300

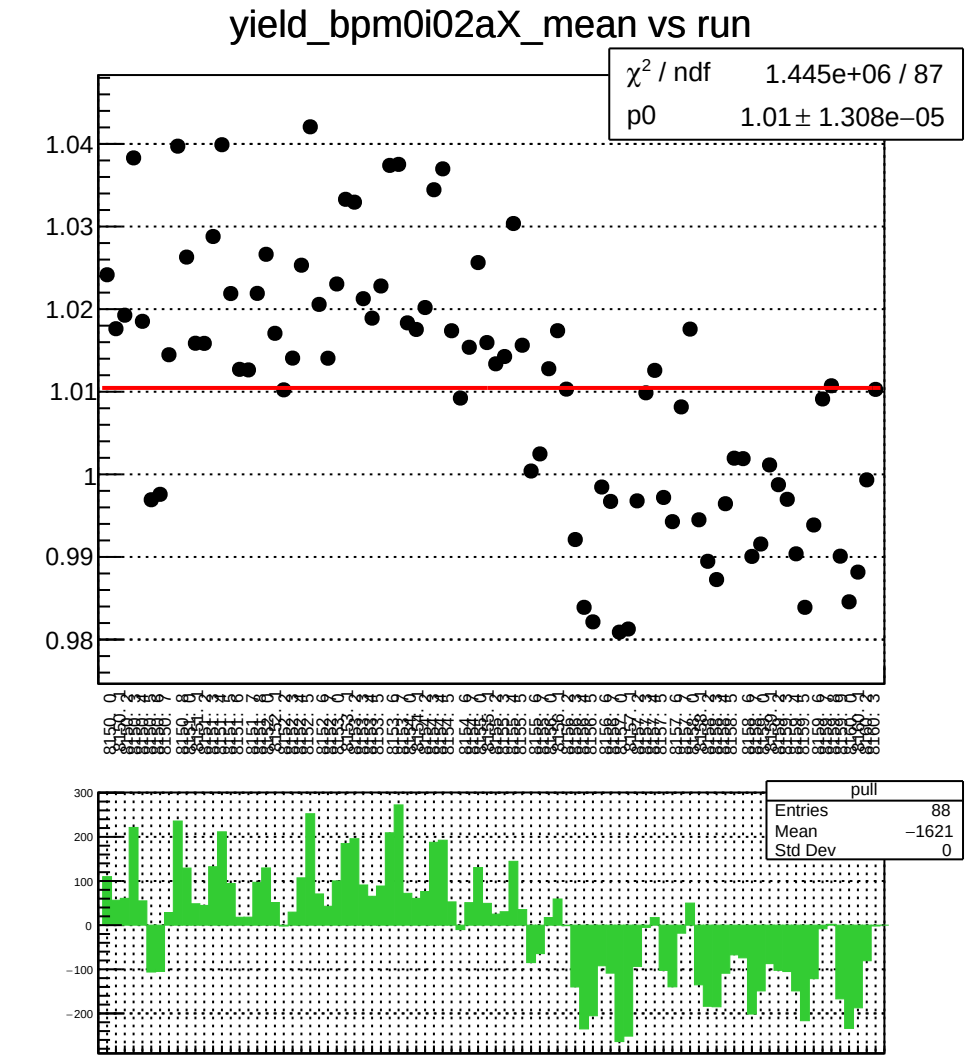

pull1D
Entries 88
Mean 4.016
Std Dev 4.654
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

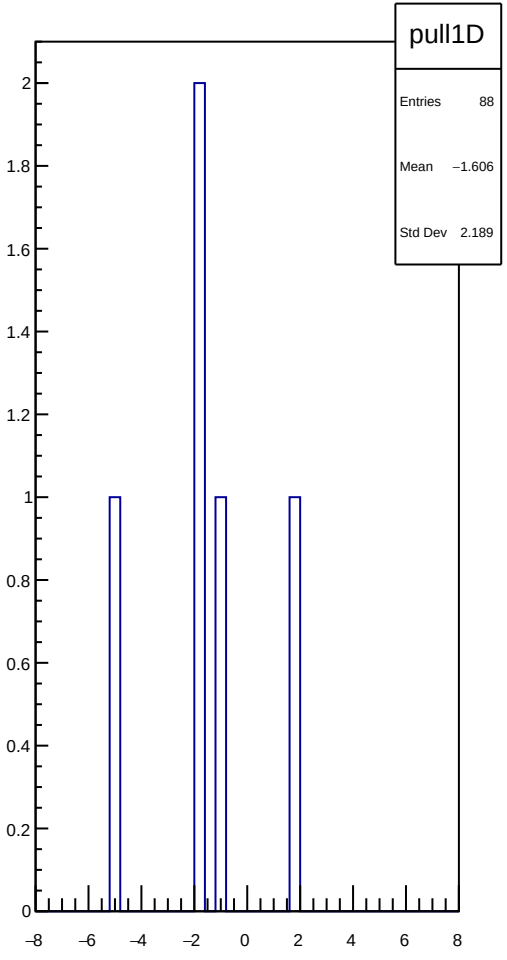
yield_bpm0i02X_rms vs run

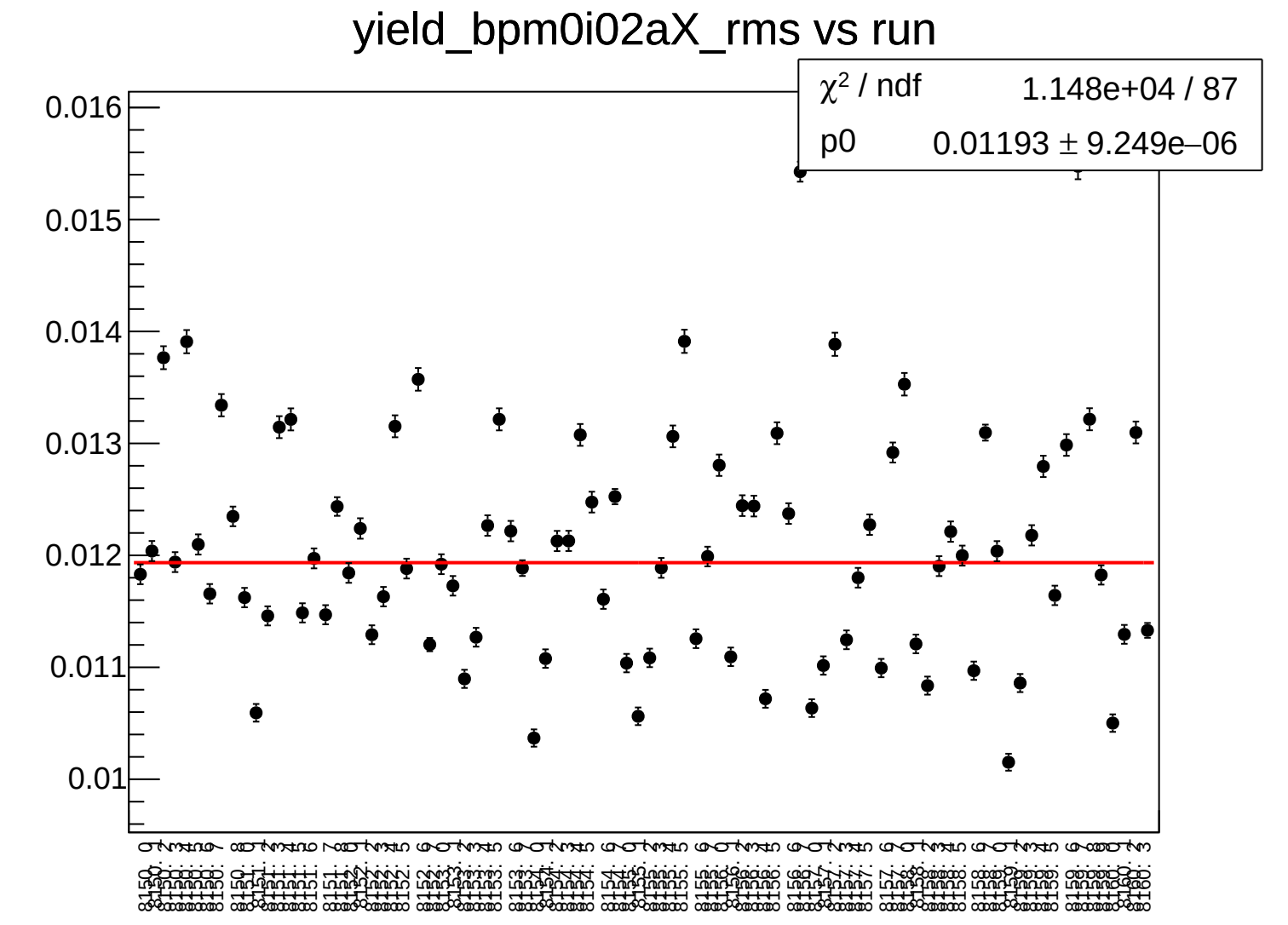


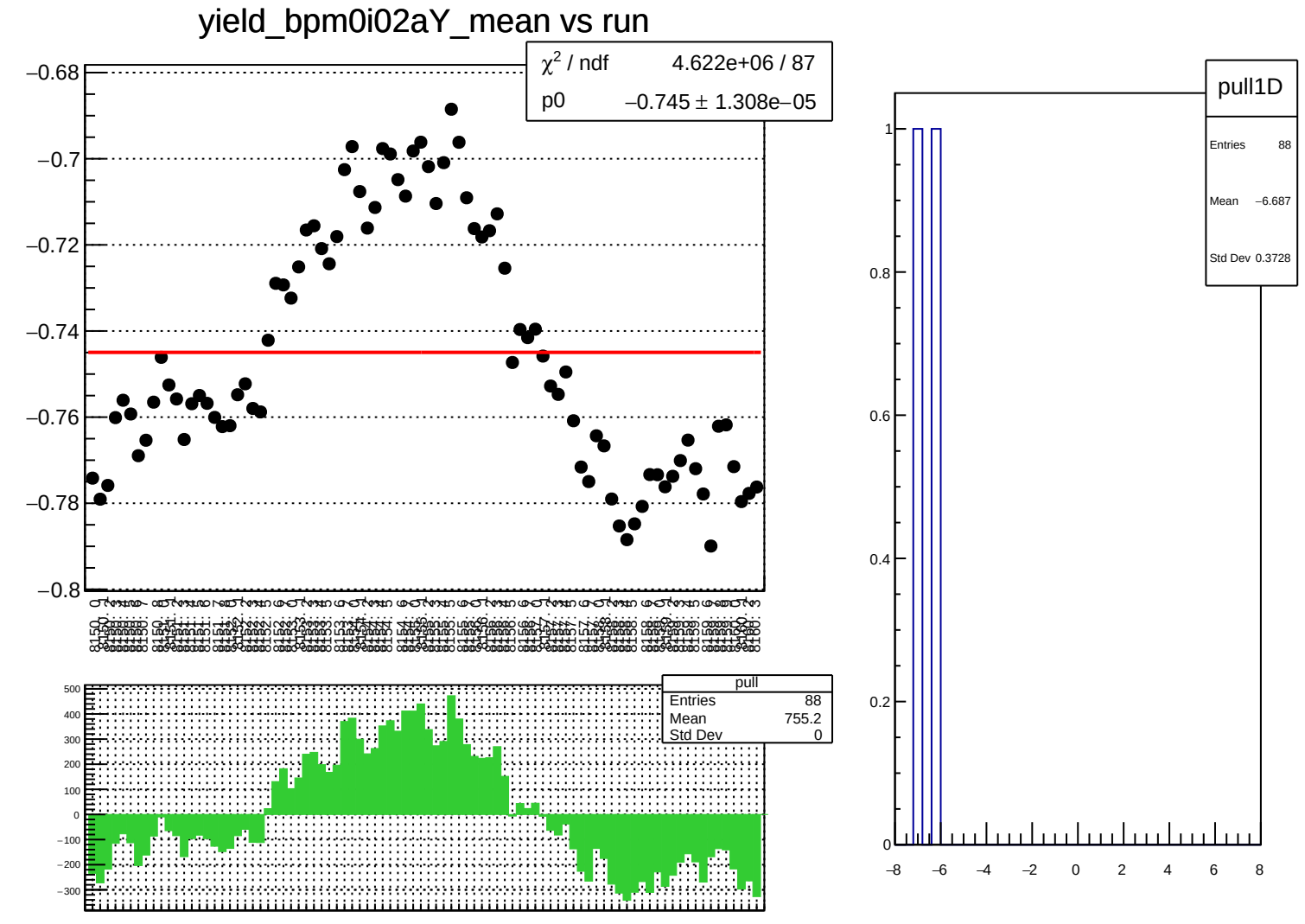

yield_bpm0i02Y_mean vs run
χ² / ndf 3.904e+06 / 87
p0 −3.627 ± 1.258e−05
−3.58
−3.6
−3.62
−3.64
−3.66
pull
Entries 88
Mean 438.8
Std Dev 0
400
300
200
100
0
−100
−200
−300
pull1D
Entries 88
Mean −2.492
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

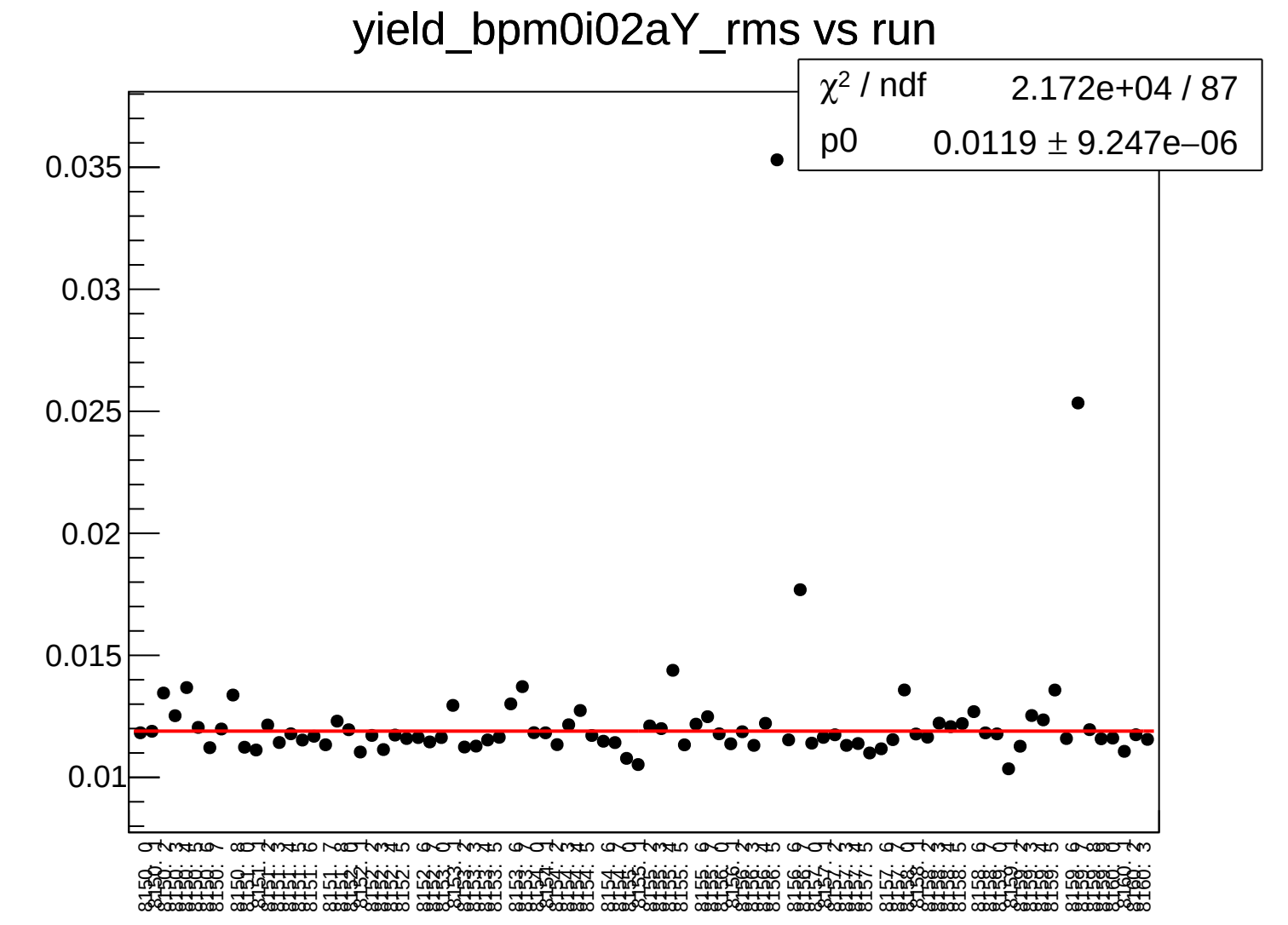

yield_bpm0i02Y_rms vs run
χ² / ndf 1.645e+04 / 87
p0 0.01146 ± 8.896e–06
0.03
0.025
0.02
0.015
0.01

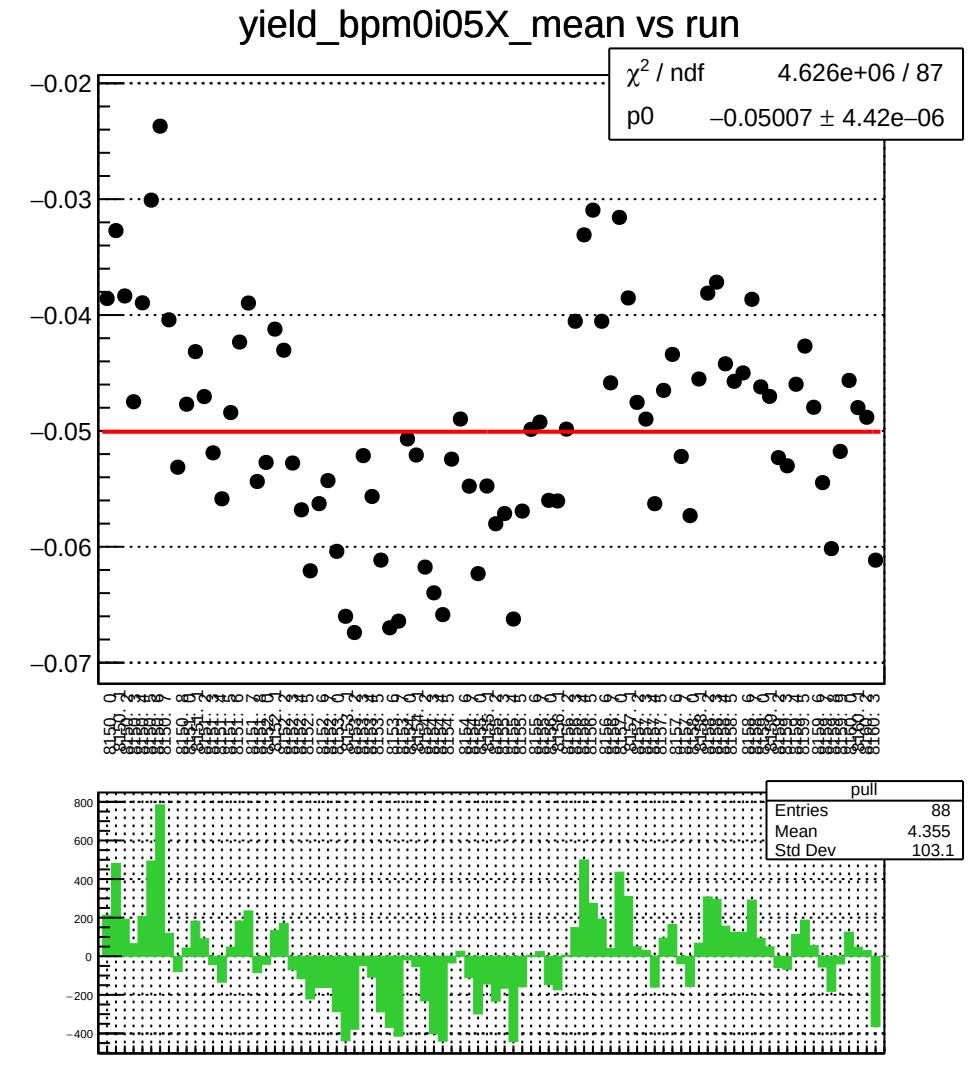

yield_bpm0i02aX_mean vs run
χ² / ndf 1.445e+06 / 87
p0 1.01 ± 1.308e−05
1.04
1.03
1.02
1.01
1
0.99
0.98
pull
Entries 88
Mean −1621
Std Dev 0
300
200
100
0
−100
−200

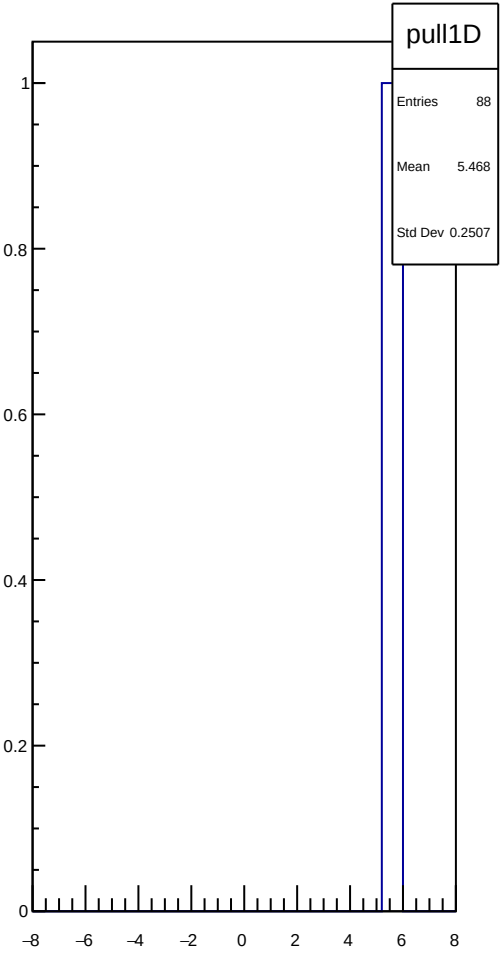

pull1D
Entries 88
Mean −1.606
Std Dev 2.189
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

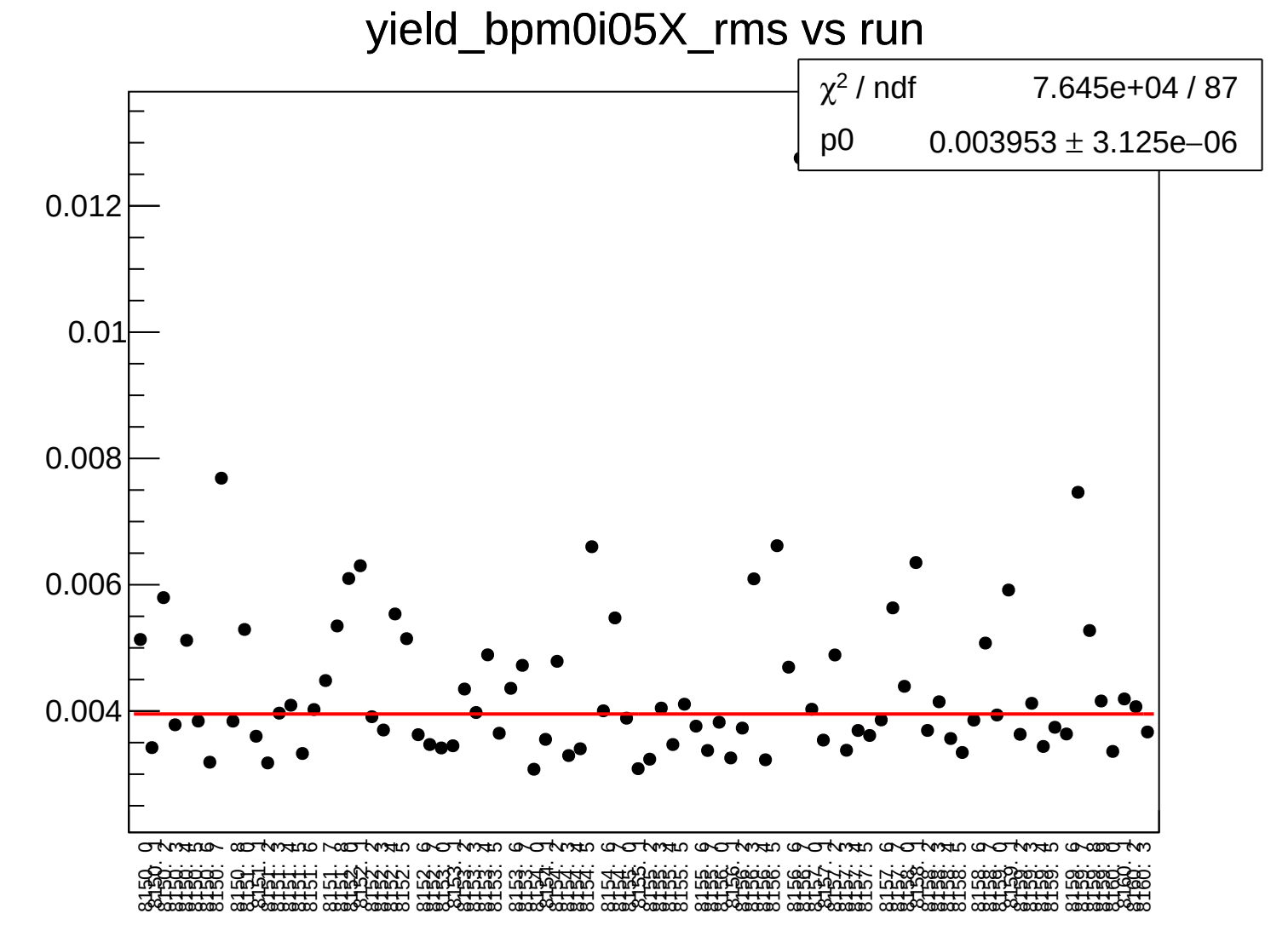

yield_bpm0i02aX_rms vs run
χ² / ndf 1.148e+04 / 87
p0 0.01193 ± 9.249e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01

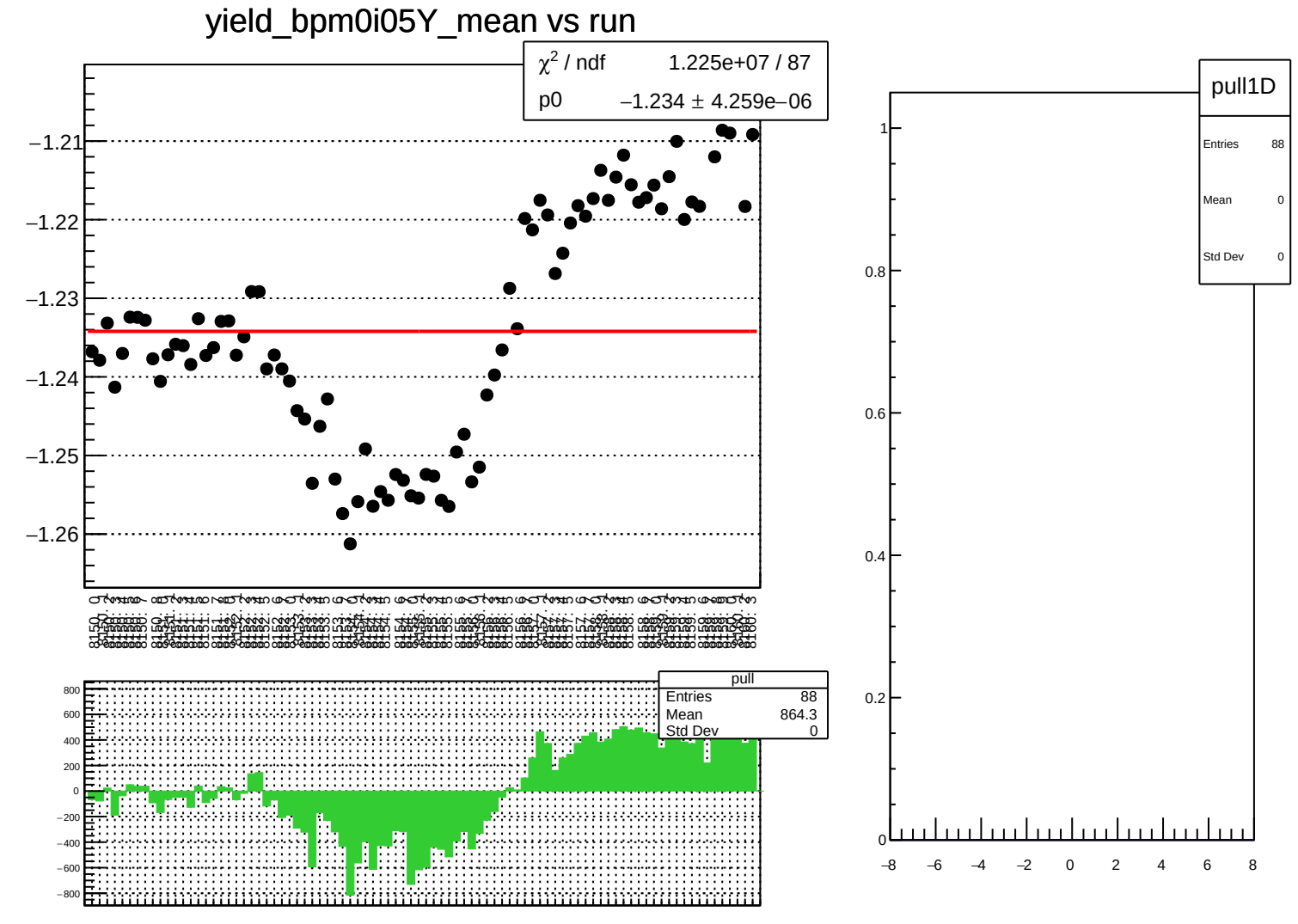

yield_bpm0i02aY_mean vs run
χ² / ndf 4.622e+06 / 87
p0 −0.745 ± 1.308e−05
−0.68
−0.7
−0.72
−0.74
−0.76
−0.78
−0.8
pull
Entries 88
Mean 755.2
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 88
Mean −6.687
Std Dev 0.3728
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

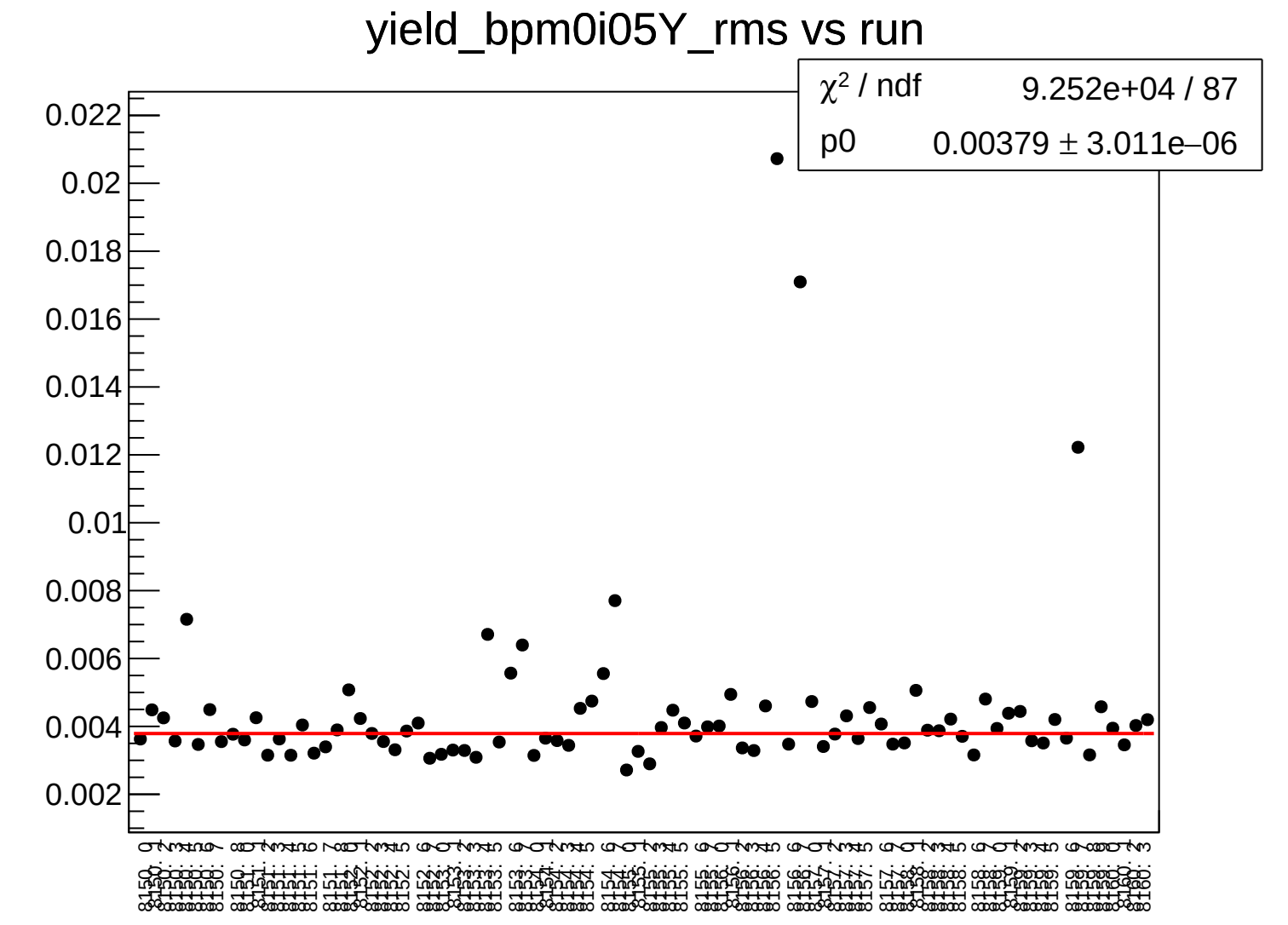

yield_bpm0i02aY_rms vs run
χ² / ndf 2.172e+04 / 87
p0 0.0119 ± 9.247e−06
0.035
0.03
0.025
0.02
0.015
0.01

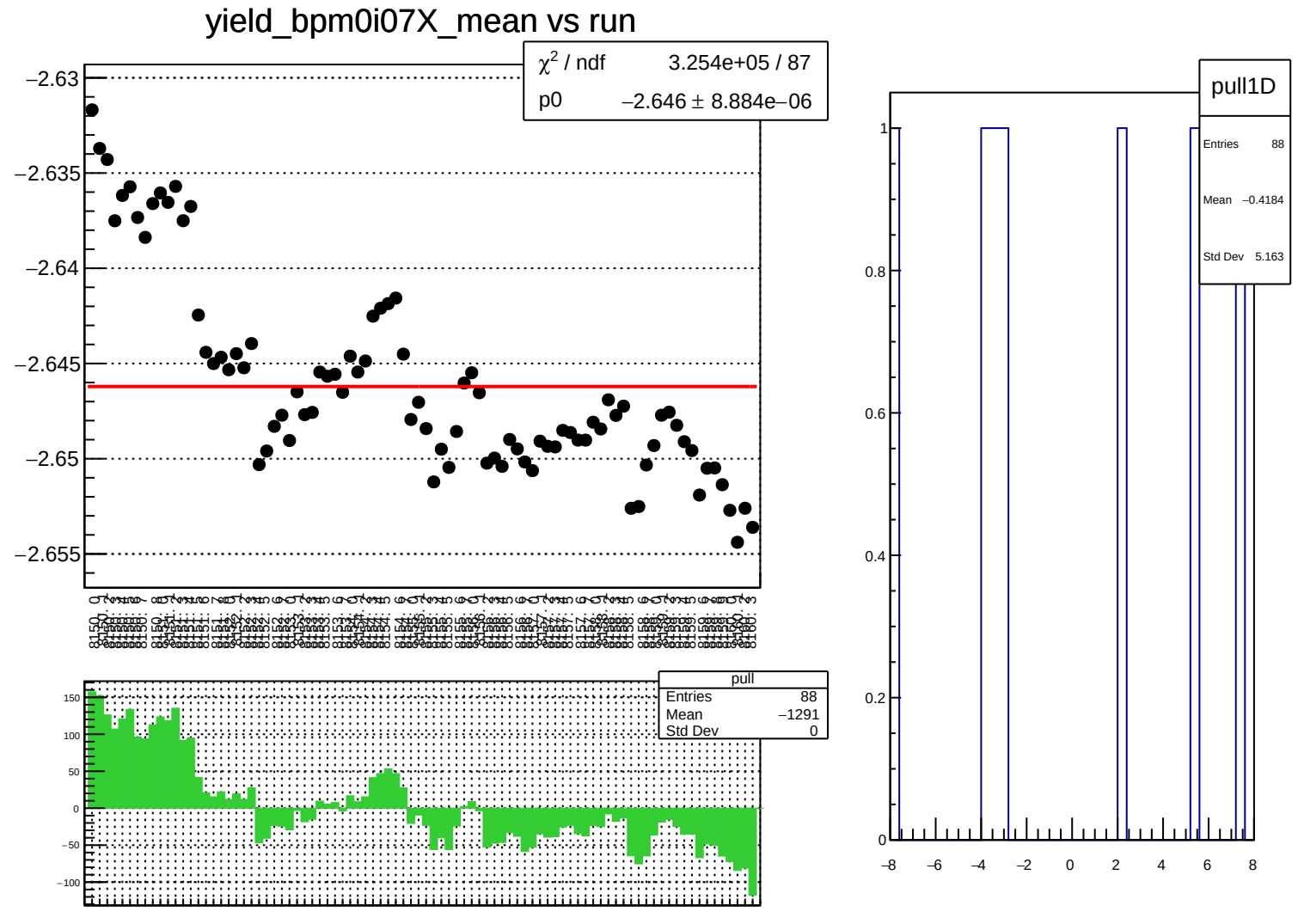

yield_bpm0i05X_mean vs run
χ² / ndf 4.626e+06 / 87
p0 −0.05007 ± 4.42e−06
−0.02
−0.03
−0.04
−0.05
−0.06
−0.07
pull
Entries 88
Mean 4.355
Std Dev 103.1
800
600
400
200
0
−200
−400

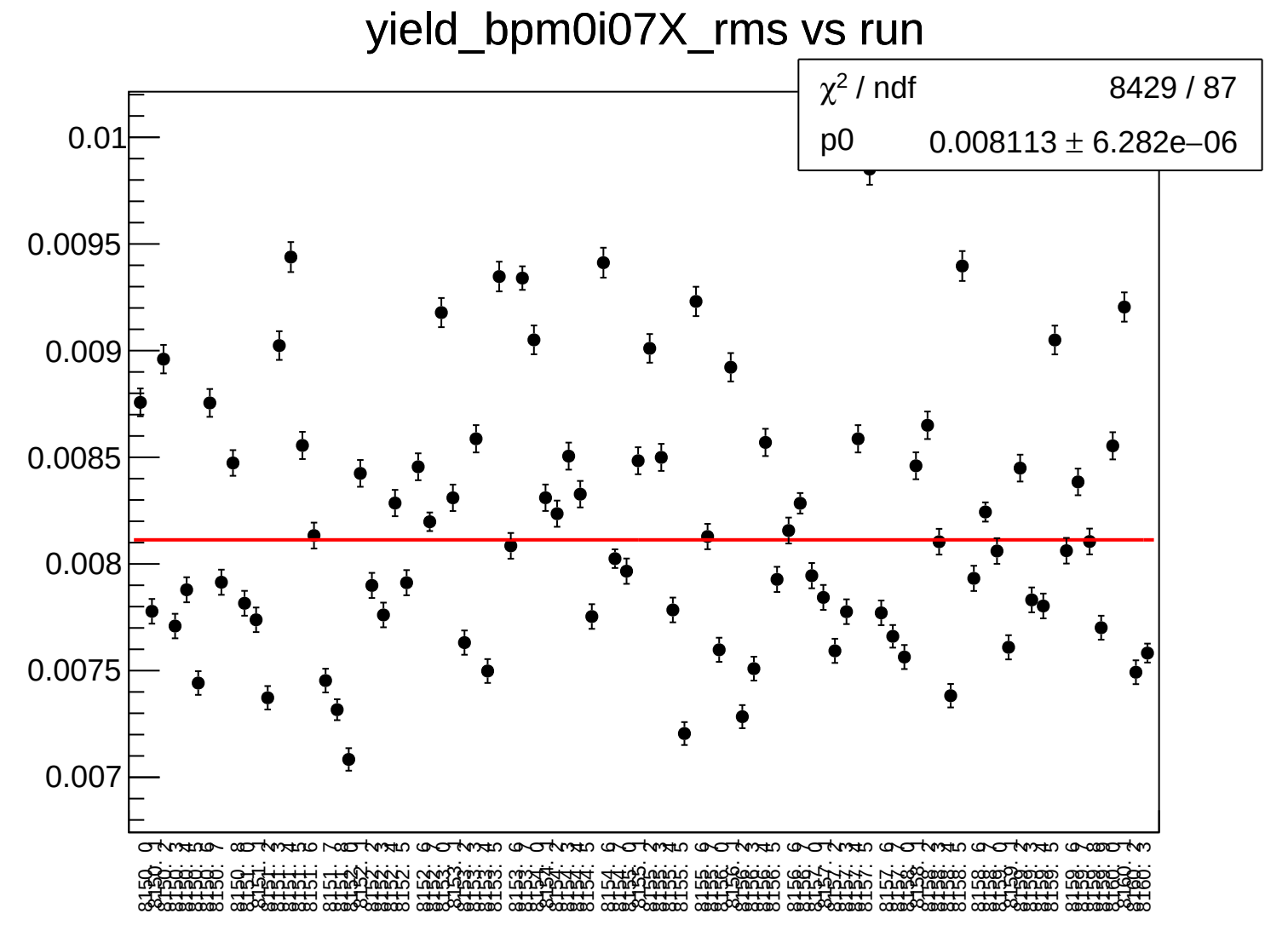

pull1D
Entries 88
Mean 5.468
Std Dev 0.2507
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

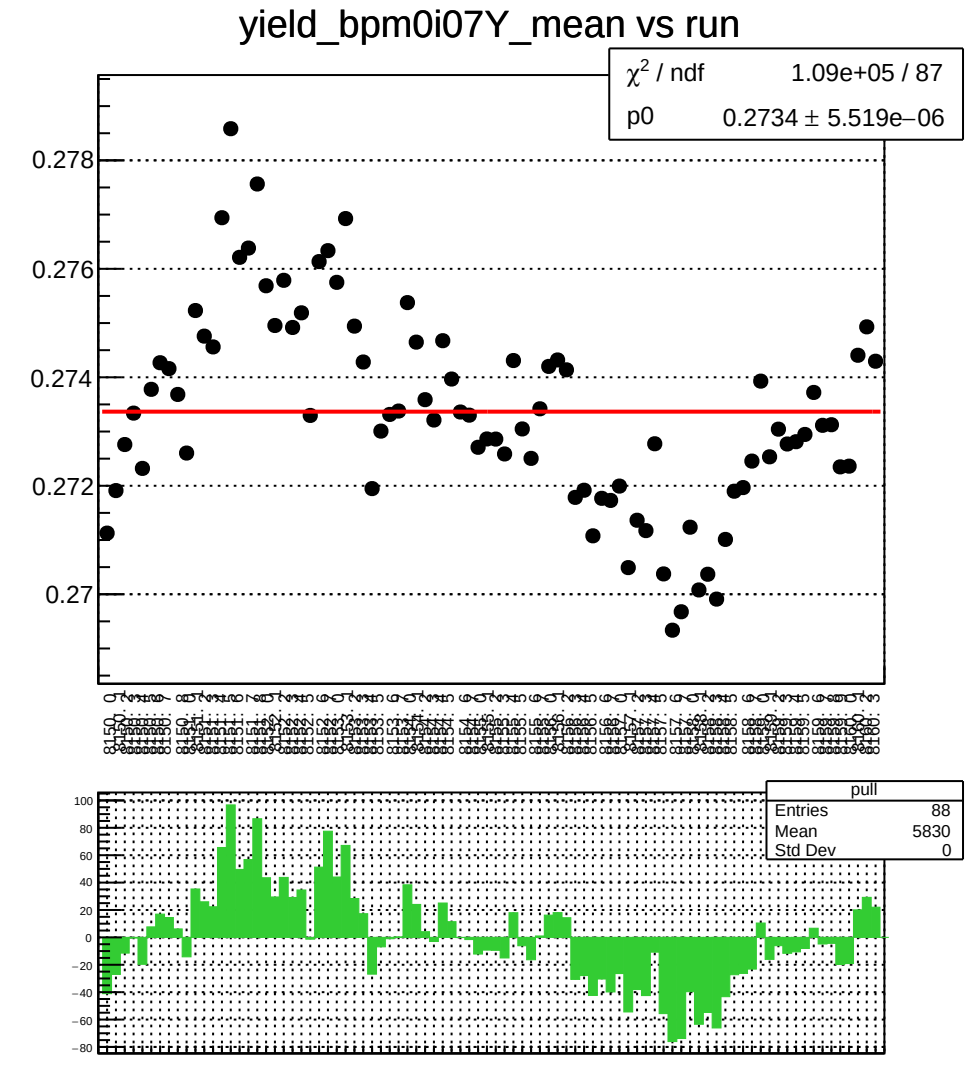

yield_bpm0i05X_rms vs run
χ² / ndf 7.645e+04 / 87
p0 0.003953 ± 3.125e−06
0.012
0.01
0.008
0.006
0.004

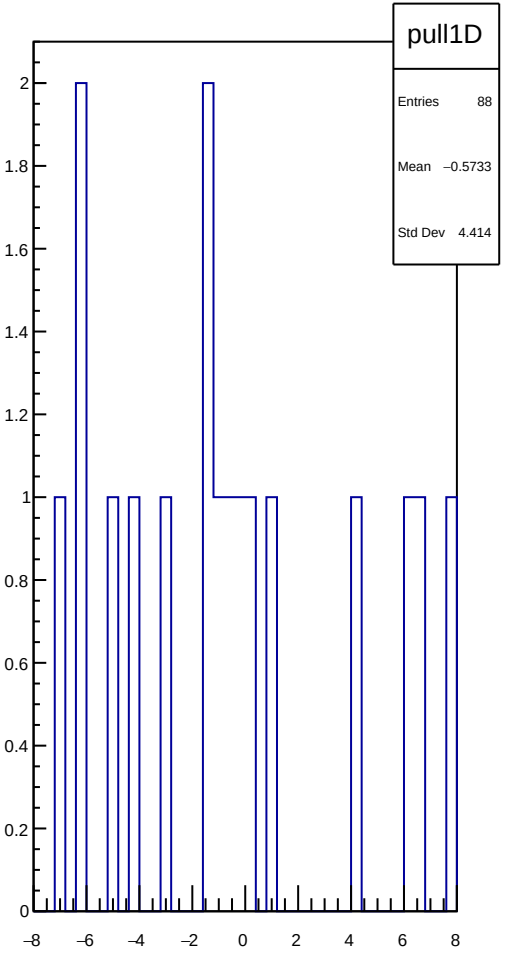

yield_bpm0i05Y_mean vs run
χ² / ndf 1.225e+07 / 87
p0 −1.234 ± 4.259e−06
−1.21
−1.22
−1.23
−1.24
−1.25
−1.26
pull
Entries 88
Mean 864.3
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

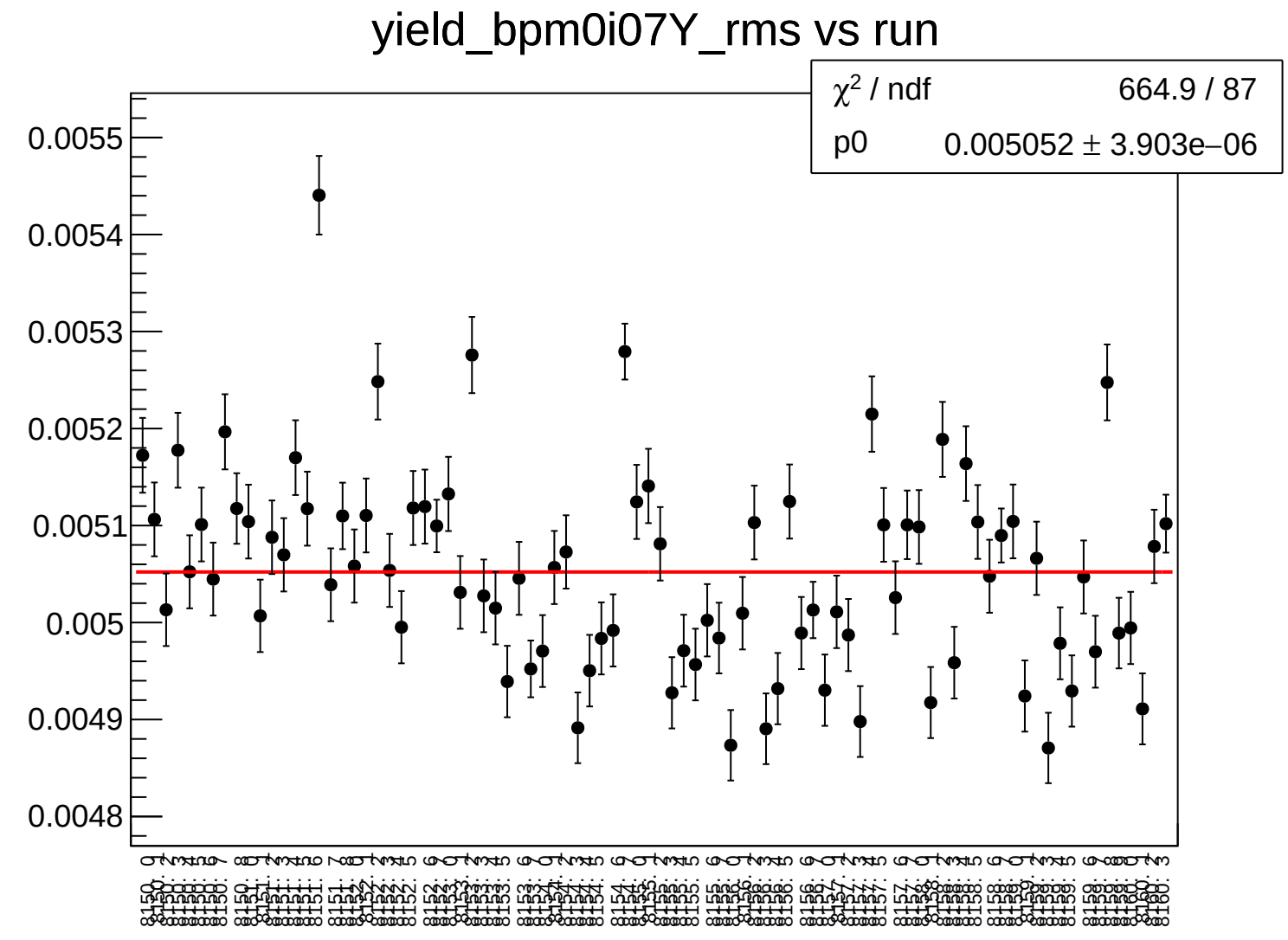

yield_bpm0i05Y_rms vs run
χ² / ndf 9.252e+04 / 87
p0 0.00379 ± 3.011e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

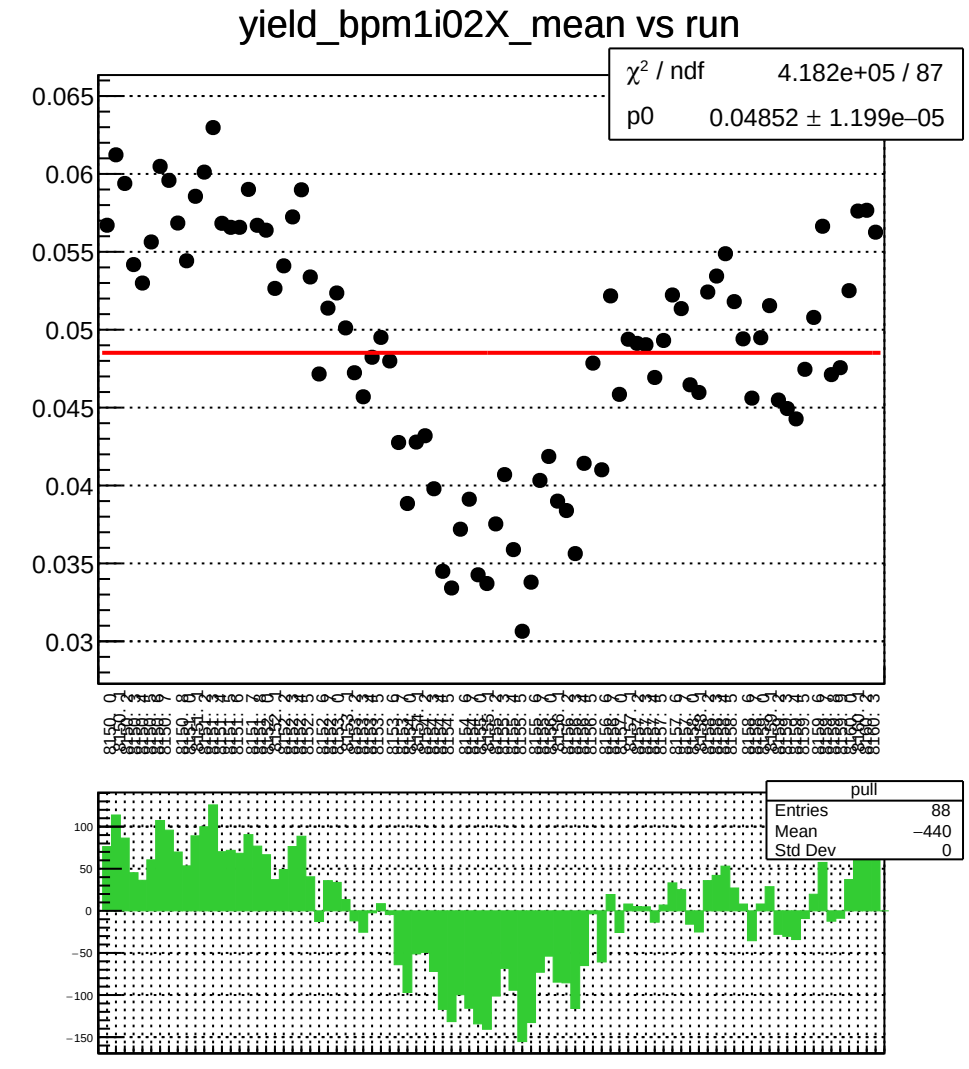

yield_bpm0i07X_mean vs run
χ² / ndf 3.254e+05 / 87
p0 −2.646 ± 8.884e−06
−2.63
−2.635
−2.64
−2.645
−2.65
−2.655
pull
Entries 88
Mean −1291
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 88
Mean −0.4184
Std Dev 5.163
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

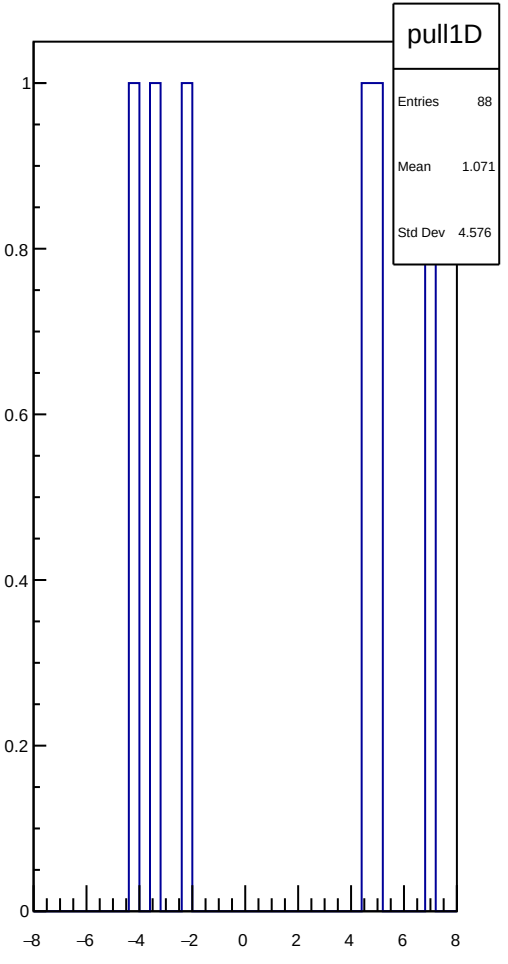

yield_bpm0i07X_rms vs run
χ² / ndf 8429 / 87
p0 0.008113 ± 6.282e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

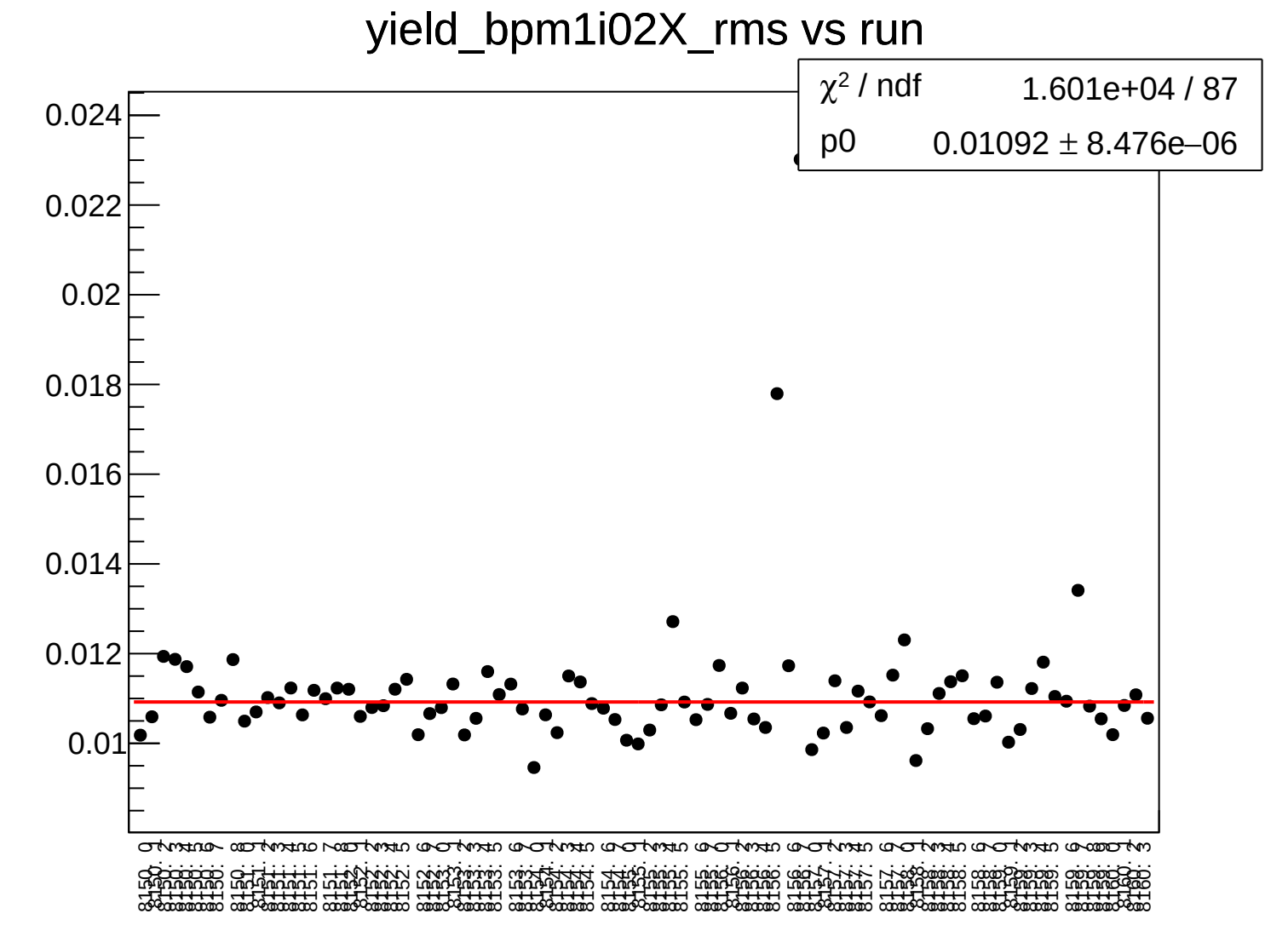

yield_bpm0i07Y_mean vs run
χ² / ndf 1.09e+05 / 87
p0 0.2734 ± 5.519e−06
0.278
0.276
0.274
0.272
0.27
pull
Entries 88
Mean 5830
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

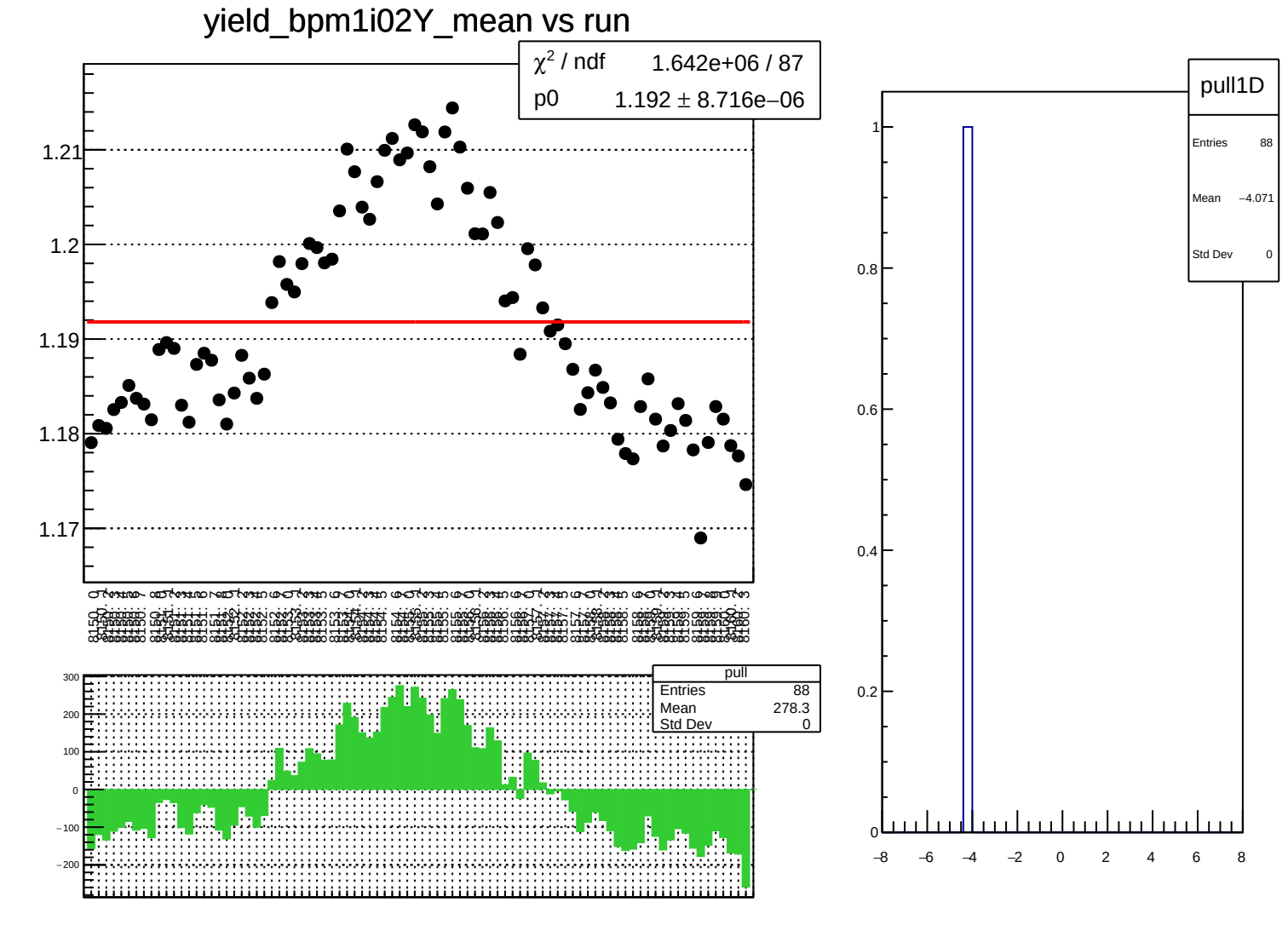

pull1D
Entries 88
Mean −0.5733
Std Dev 4.414
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

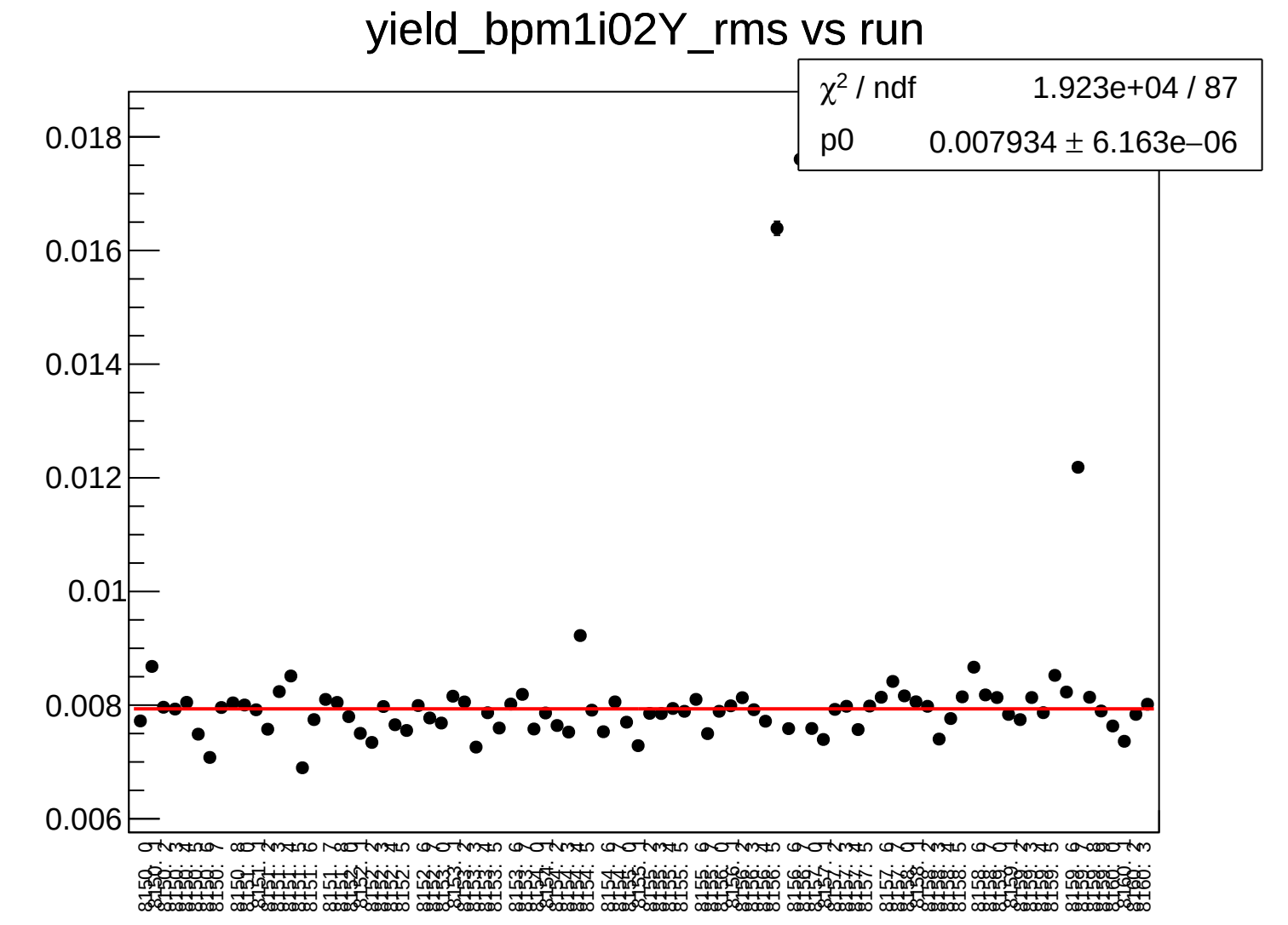

yield_bpm0i07Y_rms vs run
χ² / ndf 664.9 / 87
p0 0.005052 ± 3.903e−06
0.0055
0.0054
0.0053
0.0052
0.0051
0.005
0.0049
0.0048

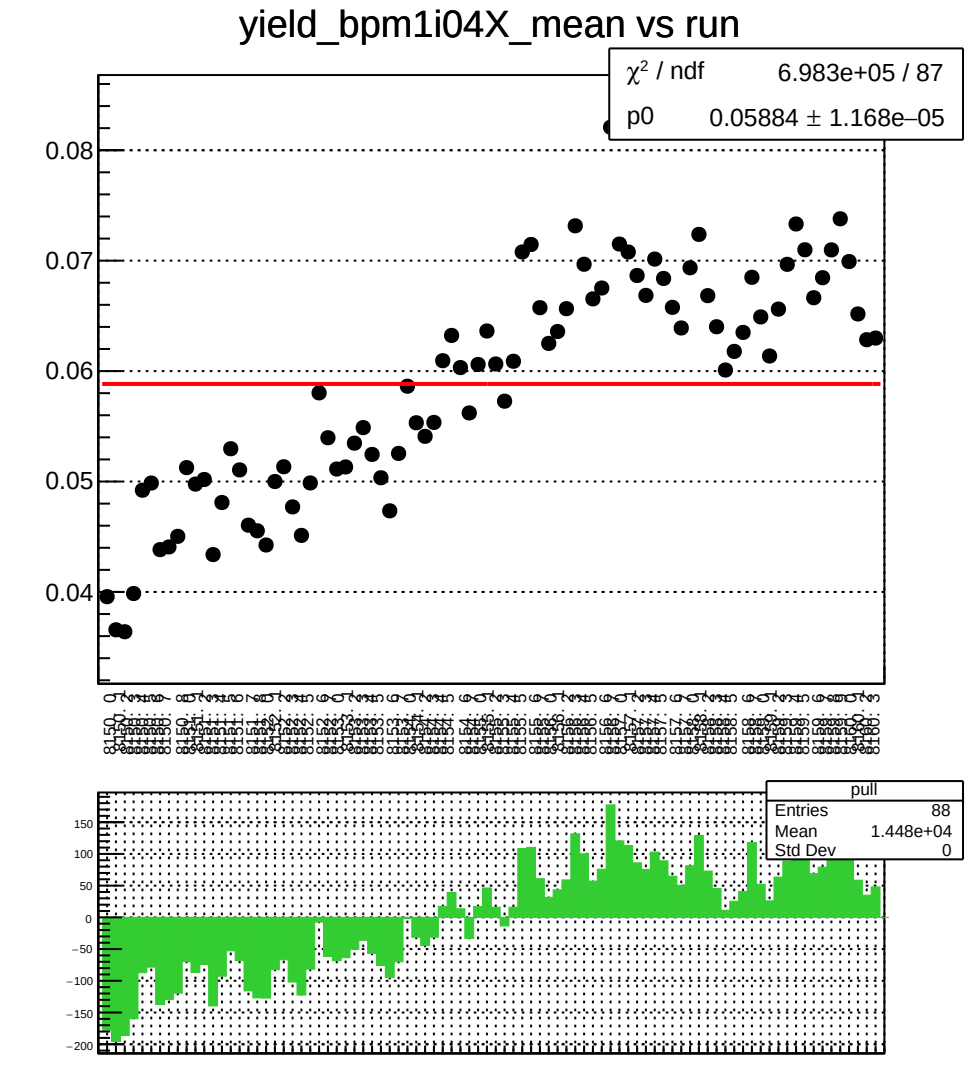

yield_bpm1i02X_mean vs run
χ² / ndf 4.182e+05 / 87
p0 0.04852 ± 1.199e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
pull
Entries 88
Mean −440
Std Dev 0
100
50
0
−50
−100
−150

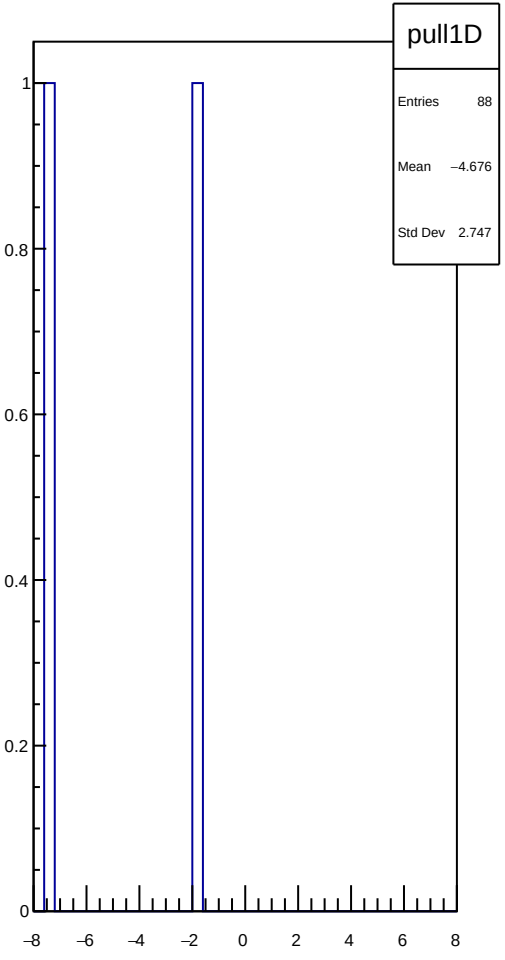

pull1D
Entries 88
Mean 1.071
Std Dev 4.576
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

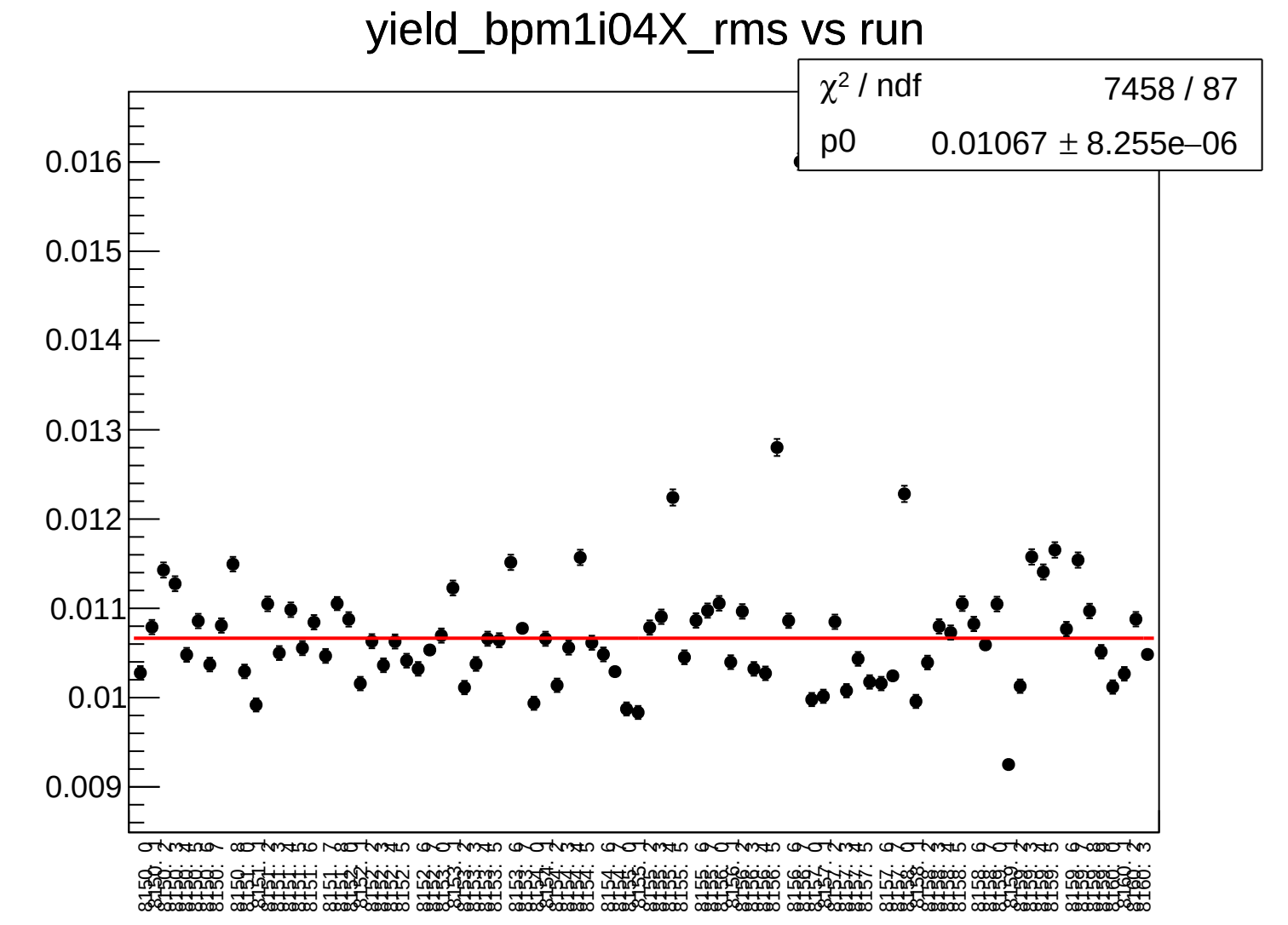

yield_bpm1i02X_rms vs run
χ² / ndf 1.601e+04 / 87
p0 0.01092 ± 8.476e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

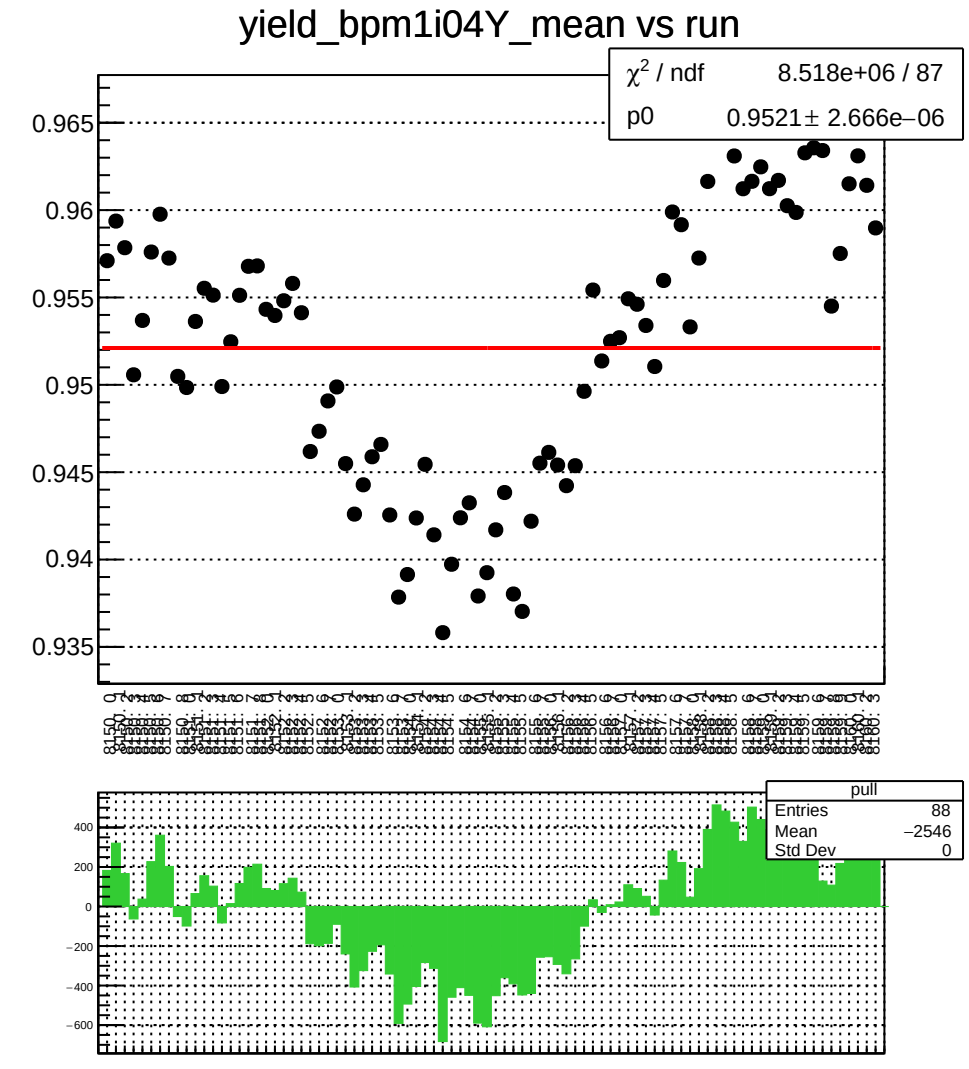

yield_bpm1i02Y_mean vs run
χ² / ndf 1.642e+06 / 87
p0 1.192 ± 8.716e−06
1.21
1.2
1.19
1.18
1.17
pull
Entries 88
Mean 278.3
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 88
Mean −4.071
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

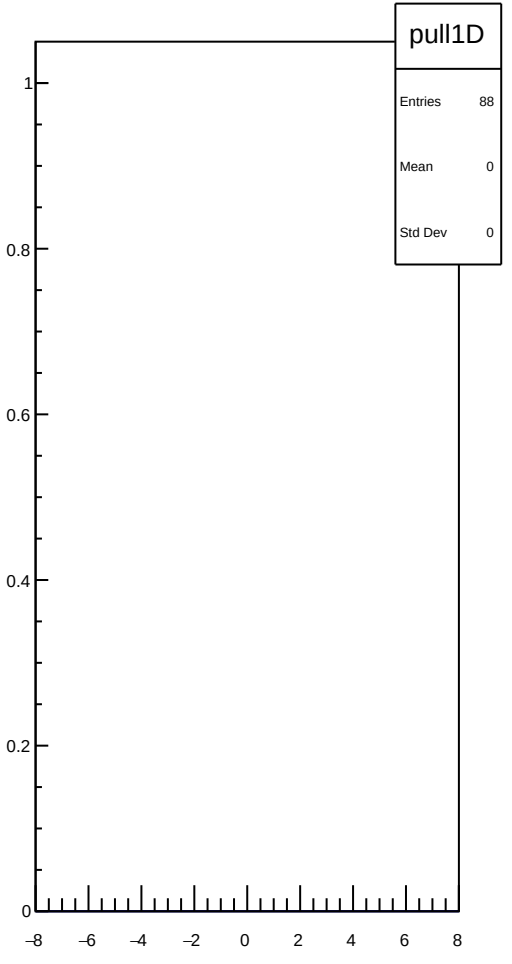

yield_bpm1i02Y_rms vs run
χ^2 / ndf 1.923e+04 / 87
p0 0.007934 ± 6.163e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

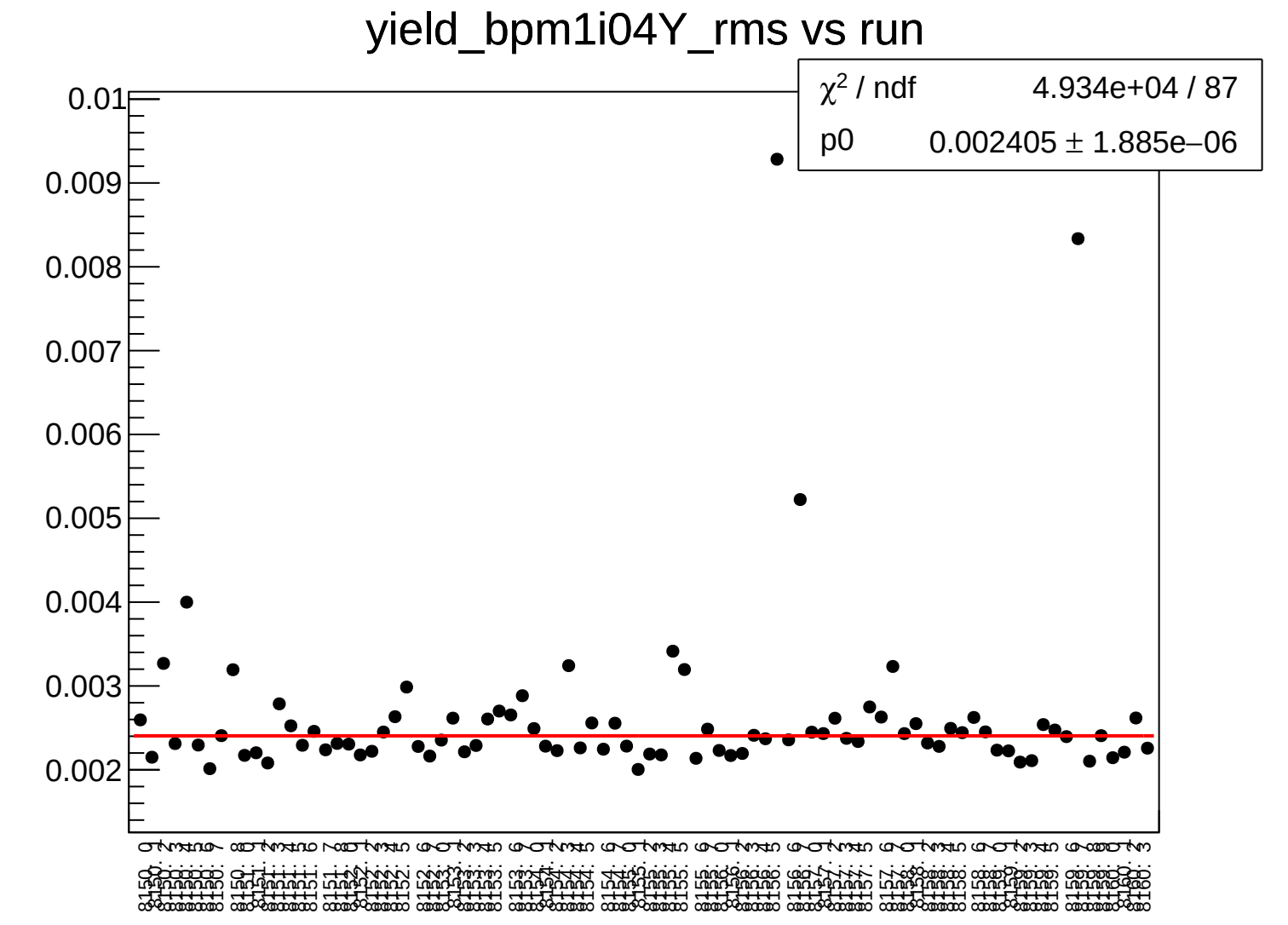

yield_bpm1i04X_mean vs run
χ² / ndf 6.983e+05 / 87
p0 0.05884 ± 1.168e−05
0.08
0.07
0.06
0.05
0.04
pull
Entries 88
Mean 1.448e+04
Std Dev 0
150
100
50
0
−50
−100
−150
−200

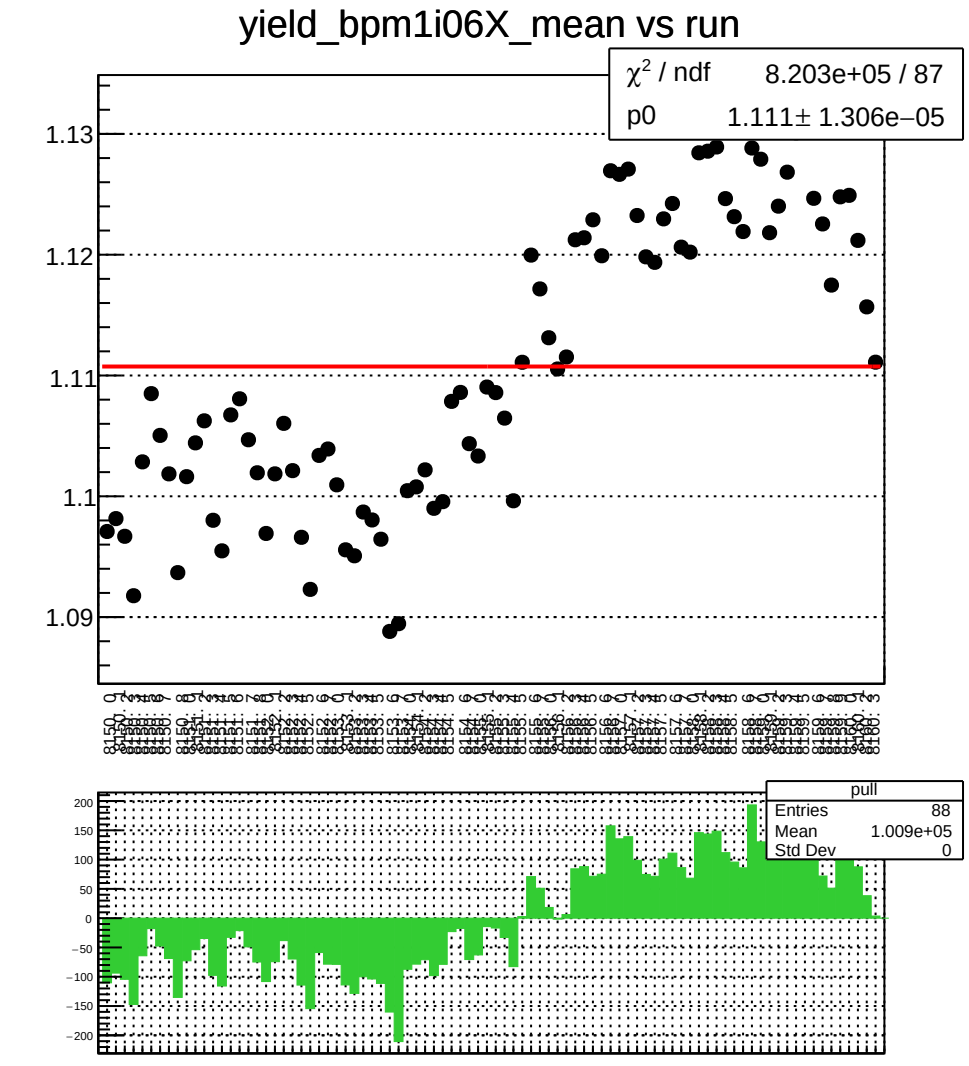

pull1D
Entries 88
Mean −4.676
Std Dev 2.747
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

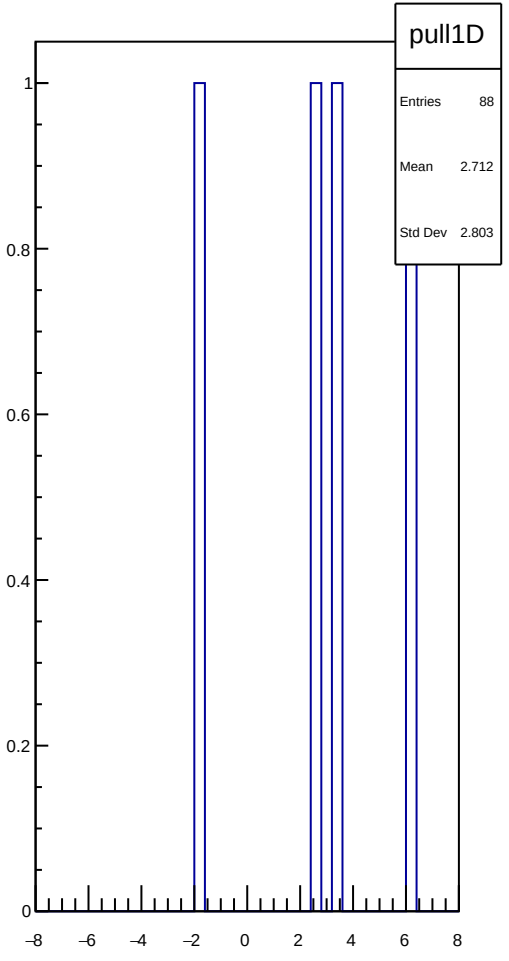

yield_bpm1i04X_rms vs run
χ² / ndf 7458 / 87
p0 0.01067 ± 8.255e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

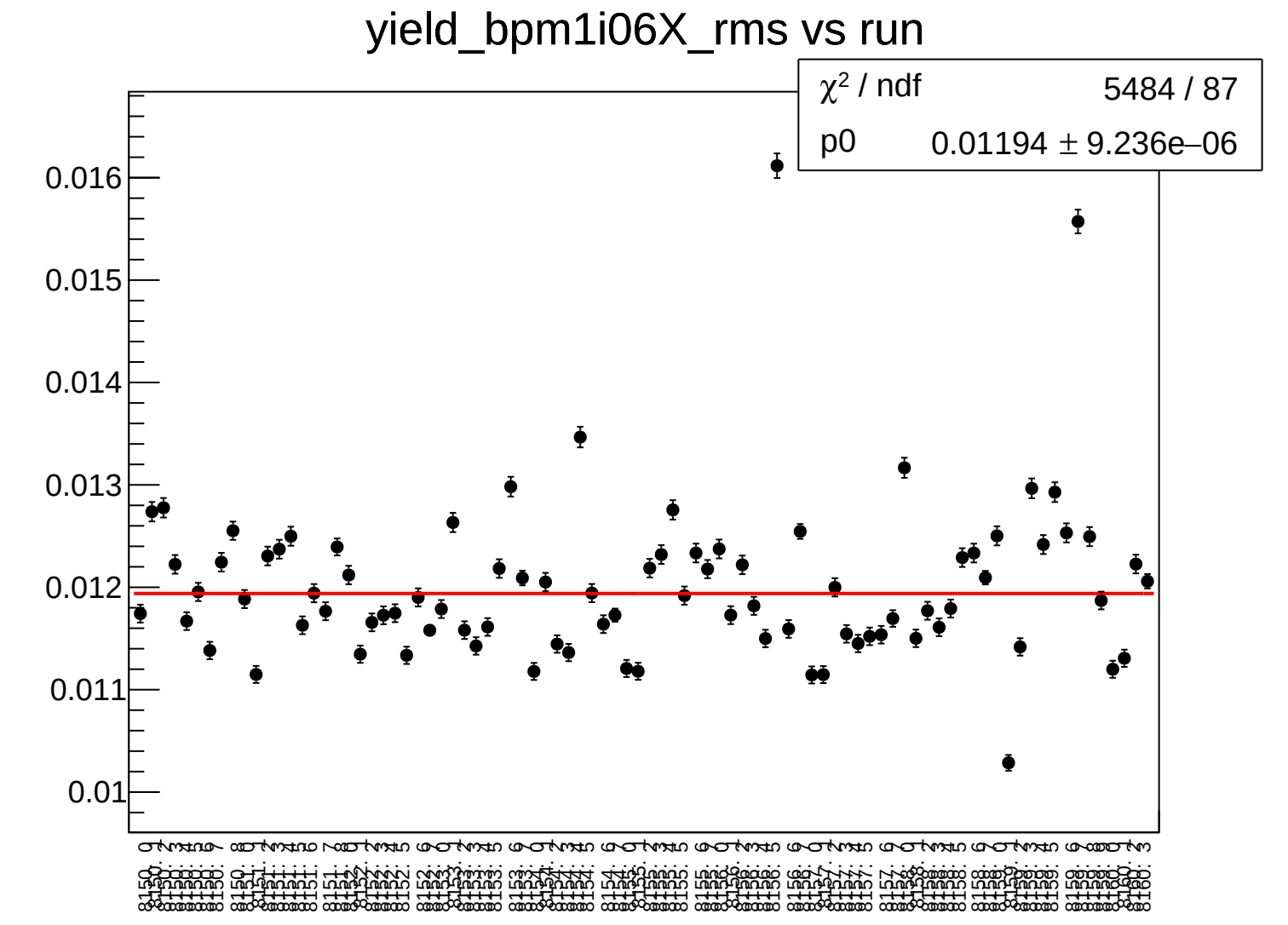

yield_bpm1i04Y_mean vs run
χ² / ndf 8.518e+06 / 87
p0 0.9521 ± 2.666e−06
0.965
0.96
0.955
0.95
0.945
0.94
0.935
pull
Entries 88
Mean −2546
Std Dev 0
400
200
0
−200
−400
−600

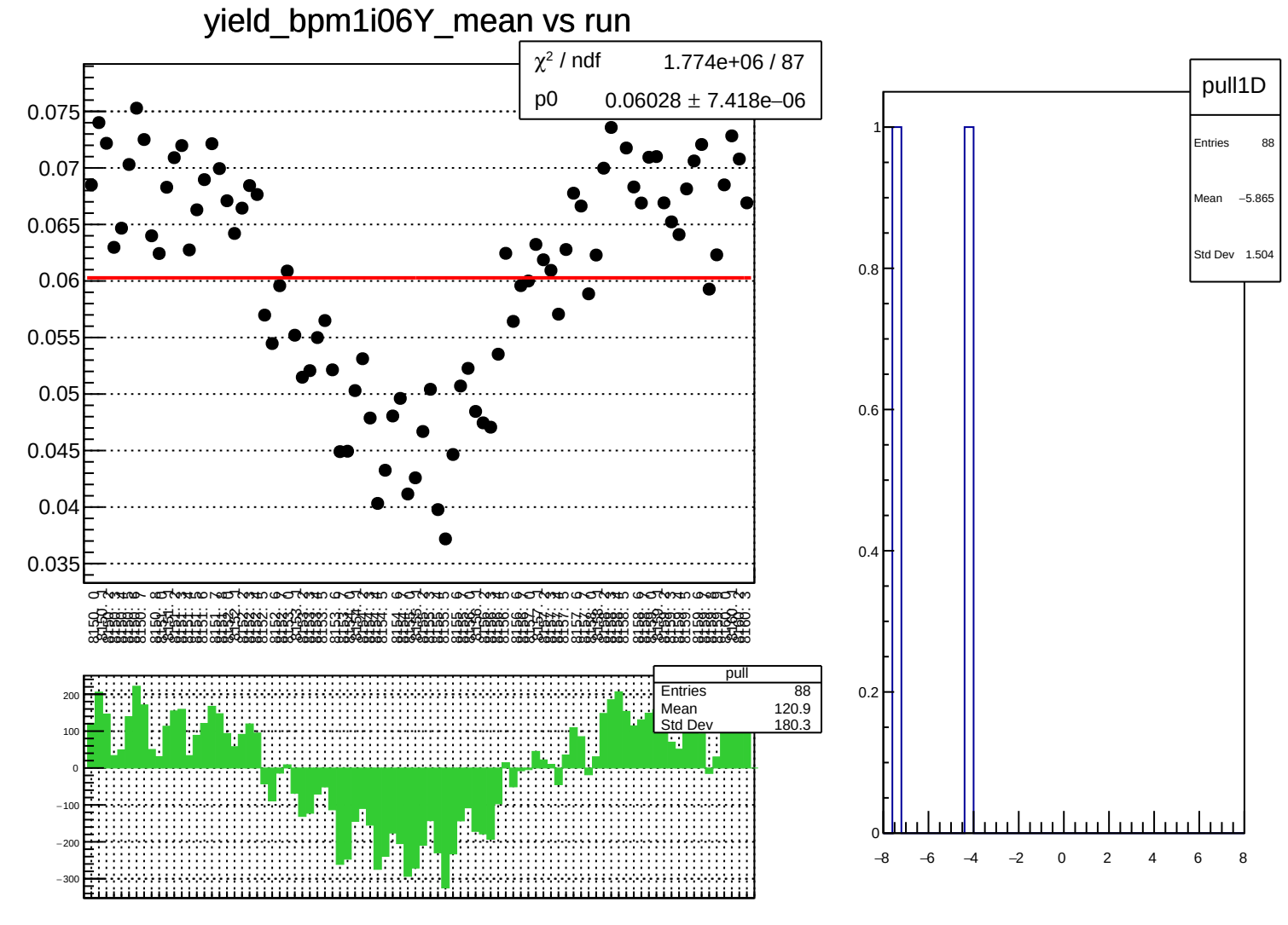

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

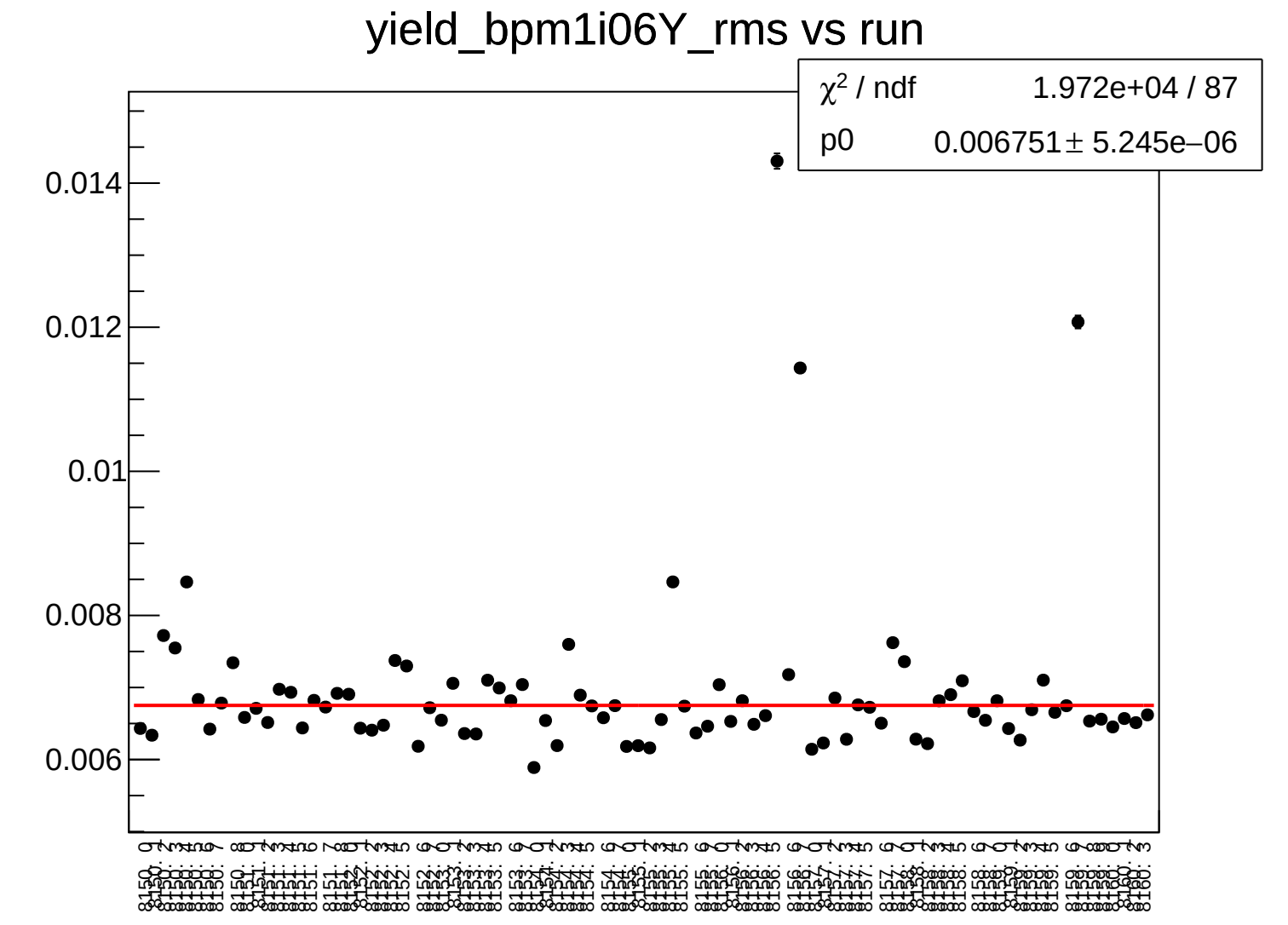

yield_bpm1i04Y_rms vs run
χ² / ndf 4.934e+04 / 87
p0 0.002405 ± 1.885e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

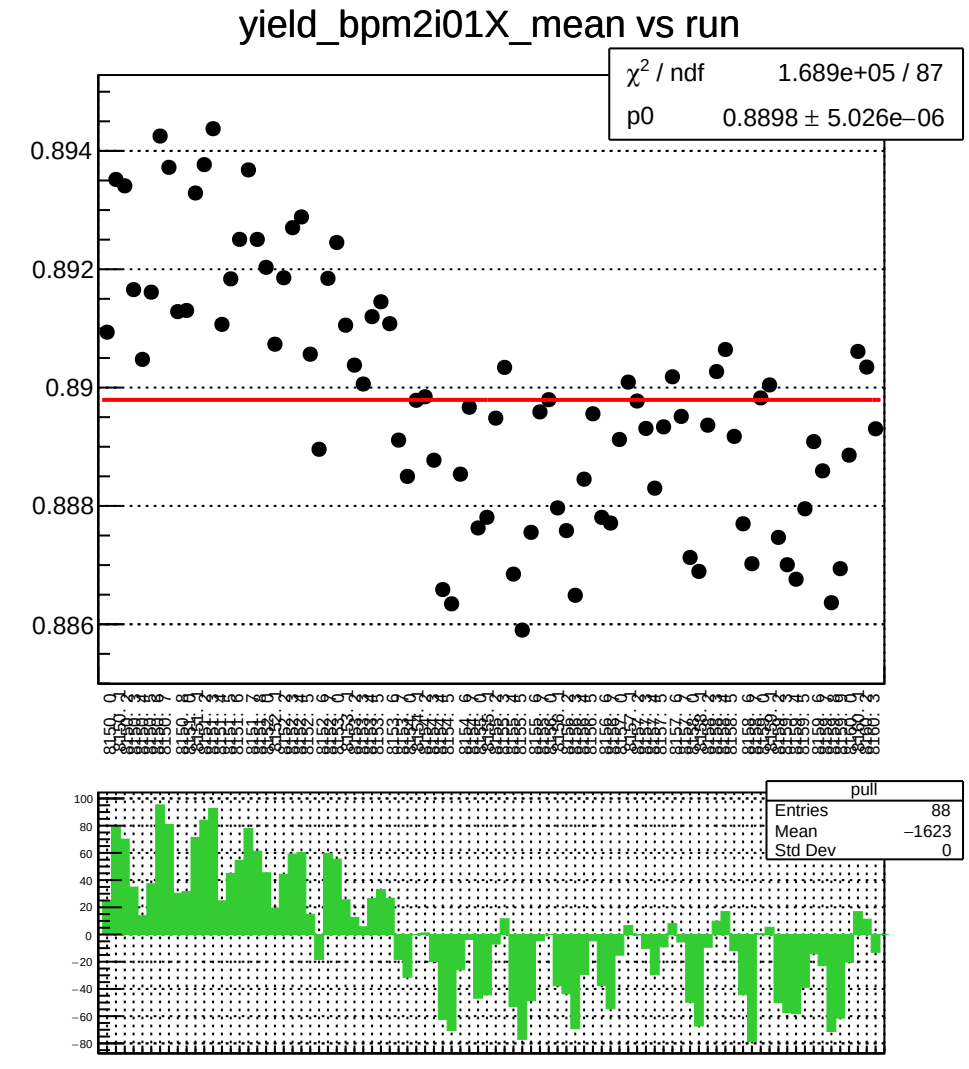

yield_bpm1i06X_mean vs run
χ² / ndf 8.203e+05 / 87
p0 1.111± 1.306e−05
1.13
1.12
1.11
1.1
1.09
pull
Entries 88
Mean 1.009e+05
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

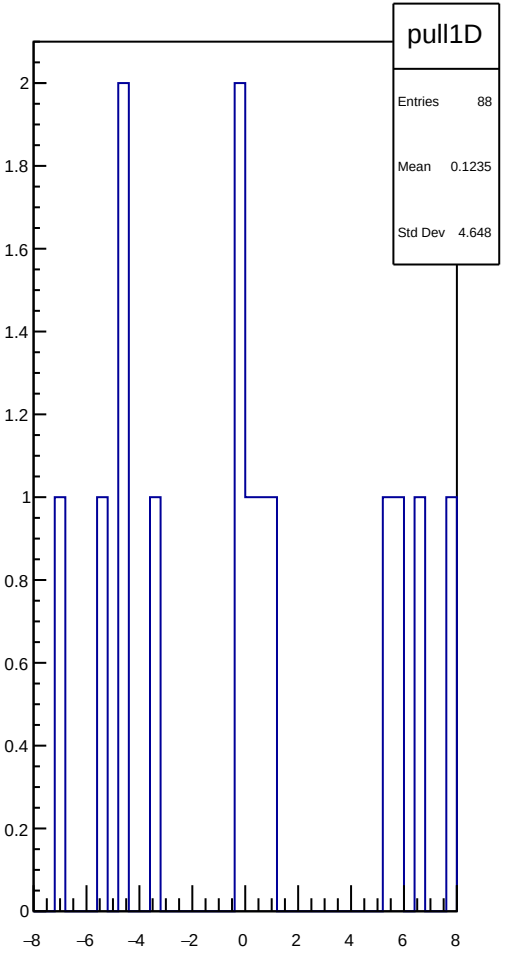

pull1D
Entries 88
Mean 2.712
Std Dev 2.803
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

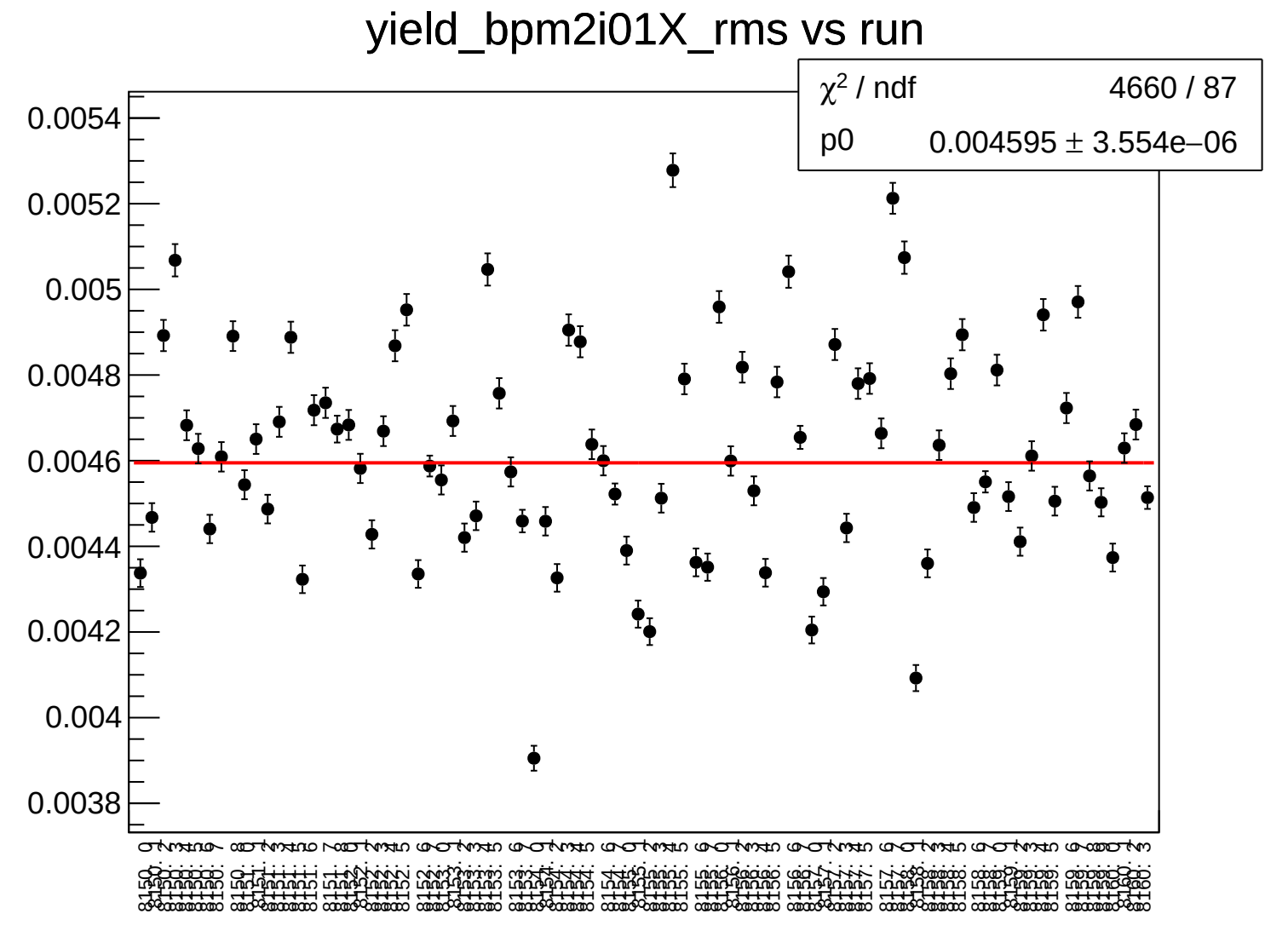

yield_bpm1i06X_rms vs run
χ² / ndf 5484 / 87
p0 0.01194 ± 9.236e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01

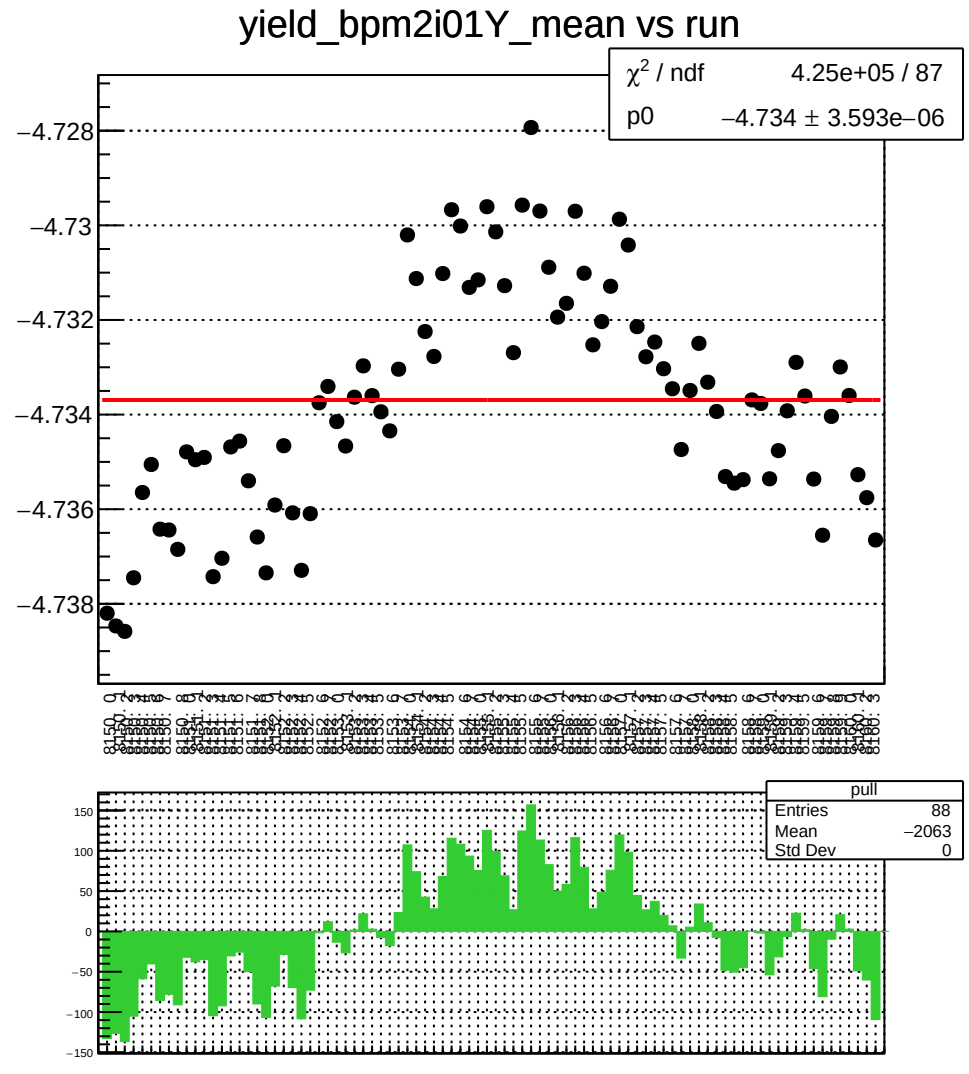

yield_bpm1i06Y_mean vs run
χ² / ndf 1.774e+06 / 87
p0 0.06028 ± 7.418e−06
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035
pull
Entries 88
Mean 120.9
Std Dev 180.3
200
100
0
−100
−200
−300
pull1D
Entries 88
Mean −5.865
Std Dev 1.504
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

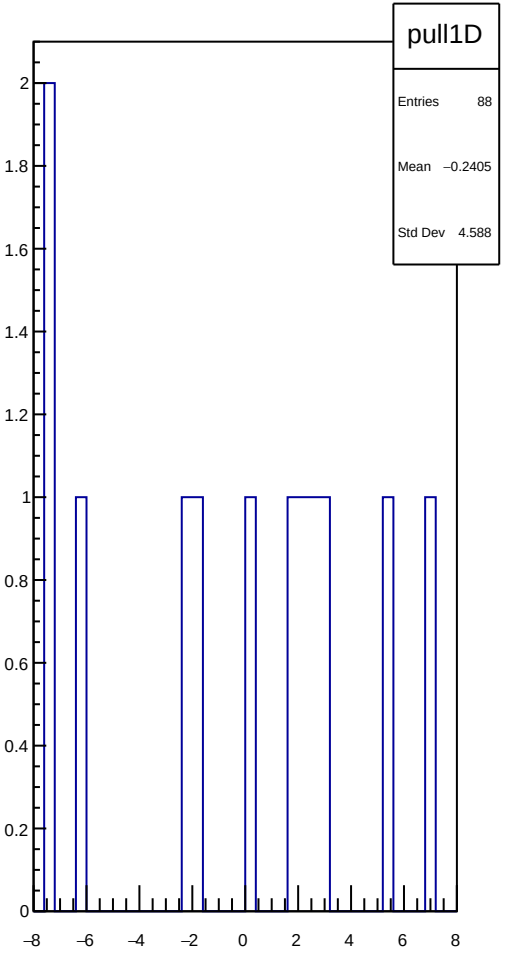

yield_bpm1i06Y_rms vs run
χ² / ndf 1.972e+04 / 87
p0 0.006751 ± 5.245e−06
0.014
0.012
0.01
0.008
0.006

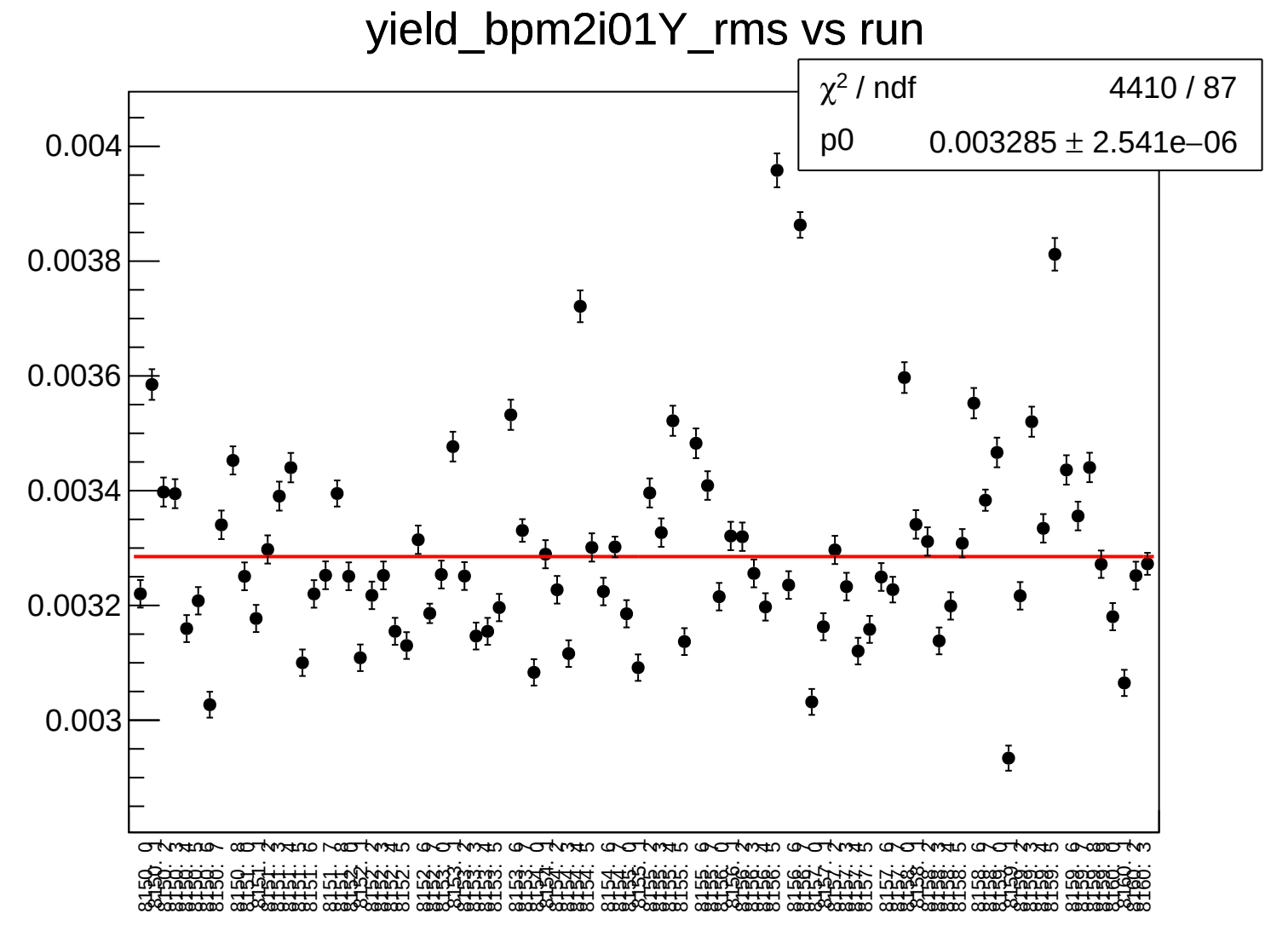

yield_bpm2i01X_mean vs run
χ² / ndf 1.689e+05 / 87
p0 0.8898 ± 5.026e−06
0.894
0.892
0.89
0.888
0.886
pull
Entries 88
Mean −1623
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

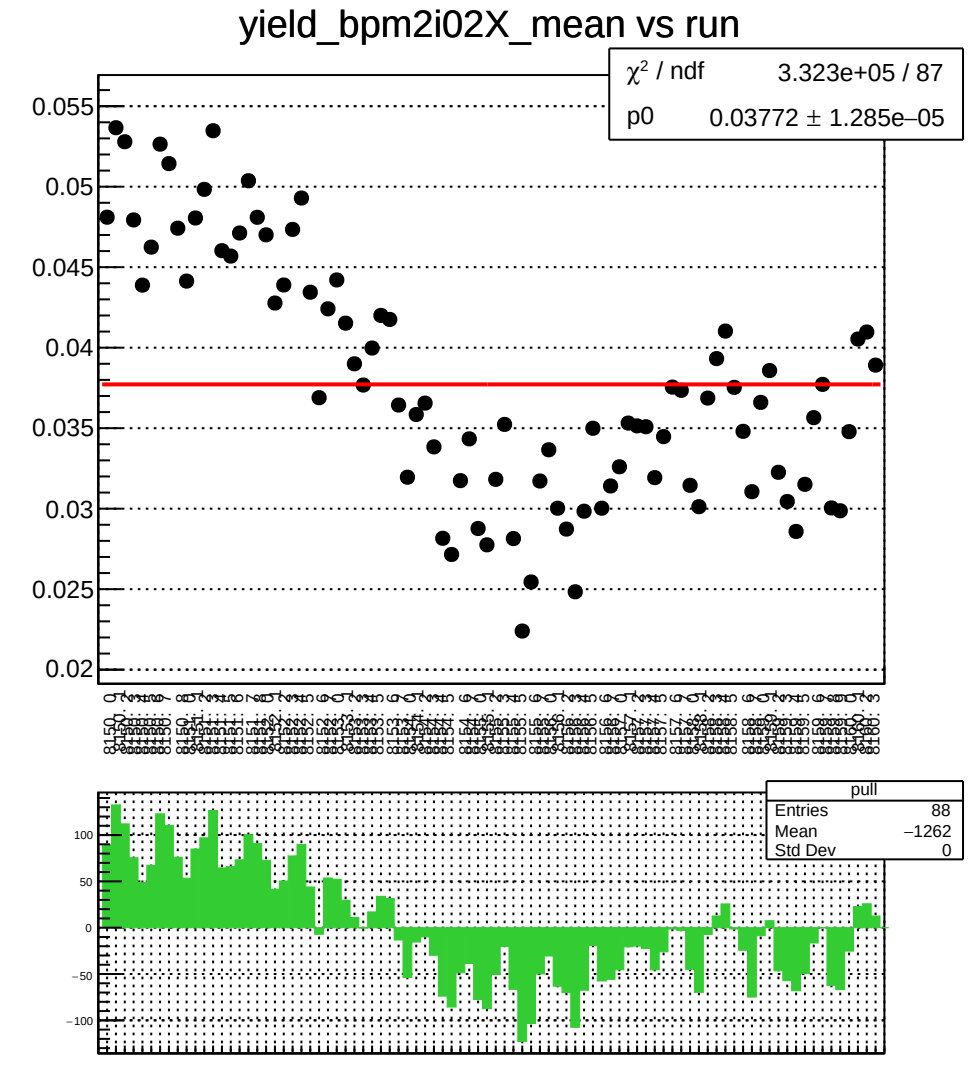

pull1D
Entries 88
Mean 0.1235
Std Dev 4.648
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

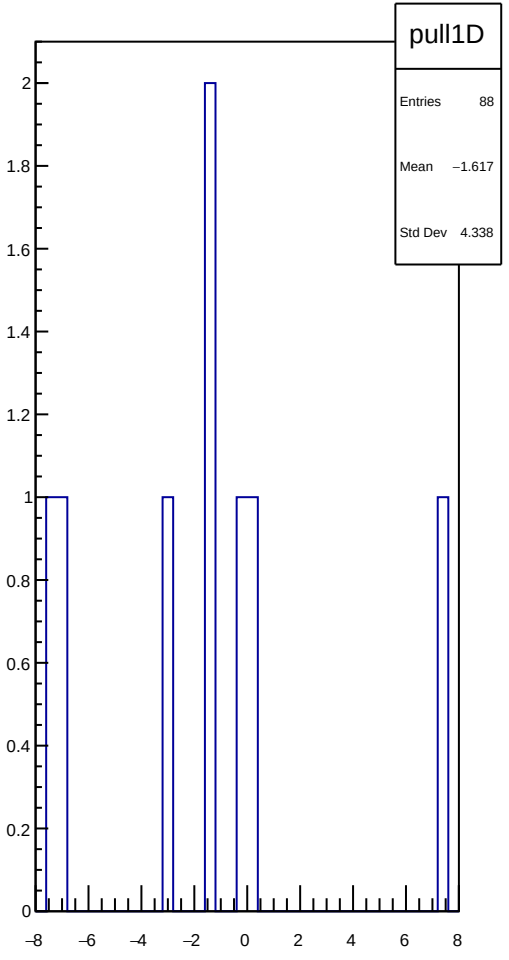

yield_bpm2i01X_rms vs run
χ² / ndf 4660 / 87
p0 0.004595 ± 3.554e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

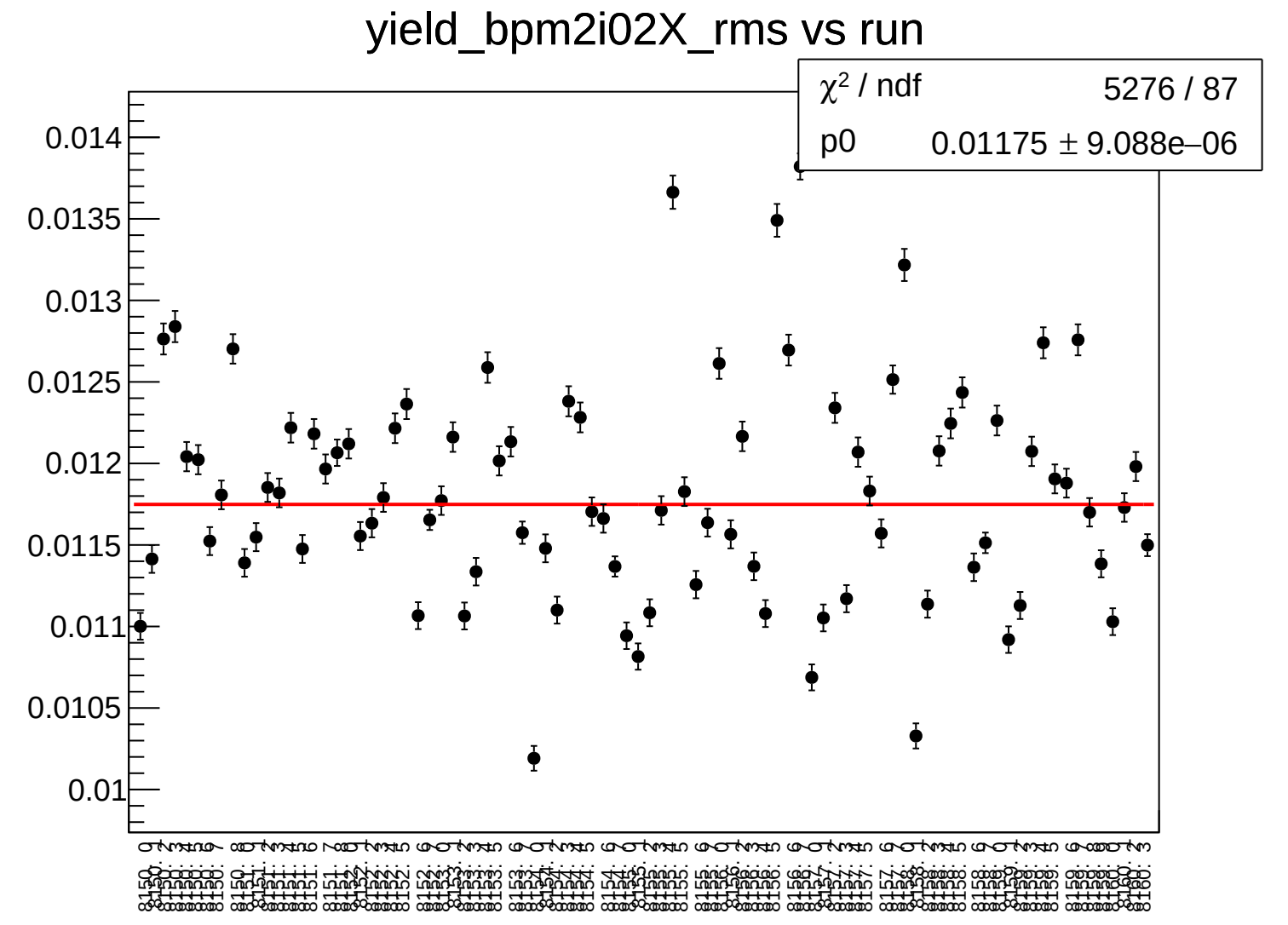

yield_bpm2i01Y_mean vs run
χ² / ndf 4.25e+05 / 87
p0 −4.734 ± 3.593e−06
−4.728
−4.73
−4.732
−4.734
−4.736
−4.738
pull
Entries 88
Mean −2063
Std Dev 0
150
100
50
0
−50
−100
−150

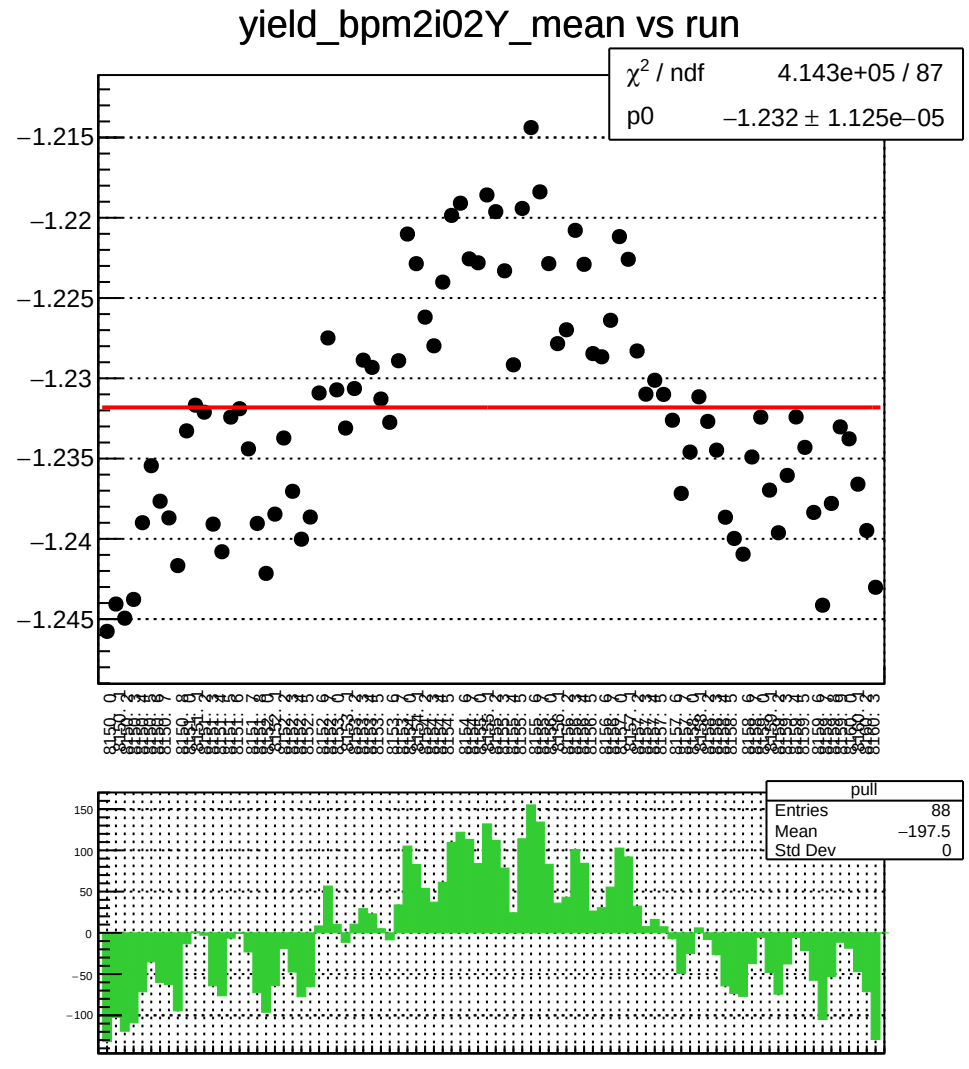

pull1D
Entries 88
Mean −0.2405
Std Dev 4.588
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

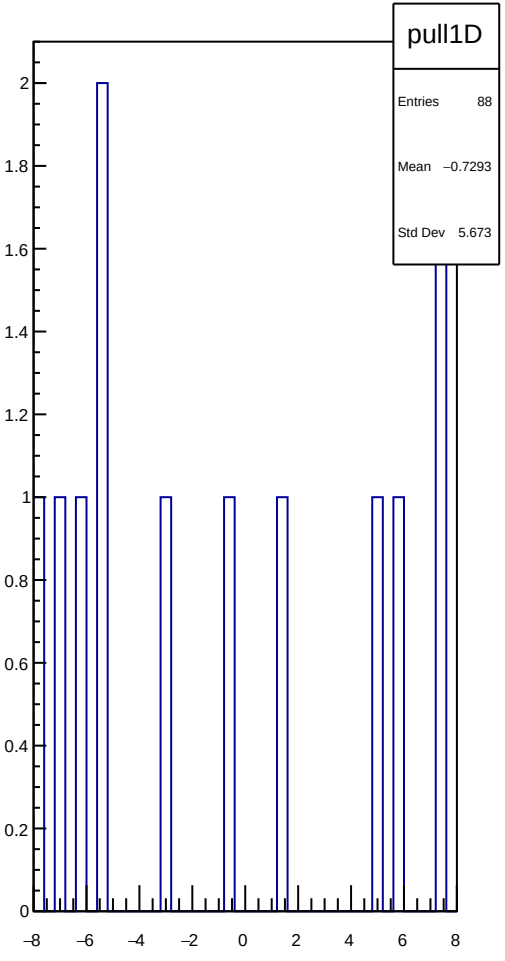

yield_bpm2i01Y_rms vs run
χ² / ndf 4410 / 87
p0 0.003285 ± 2.541e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003

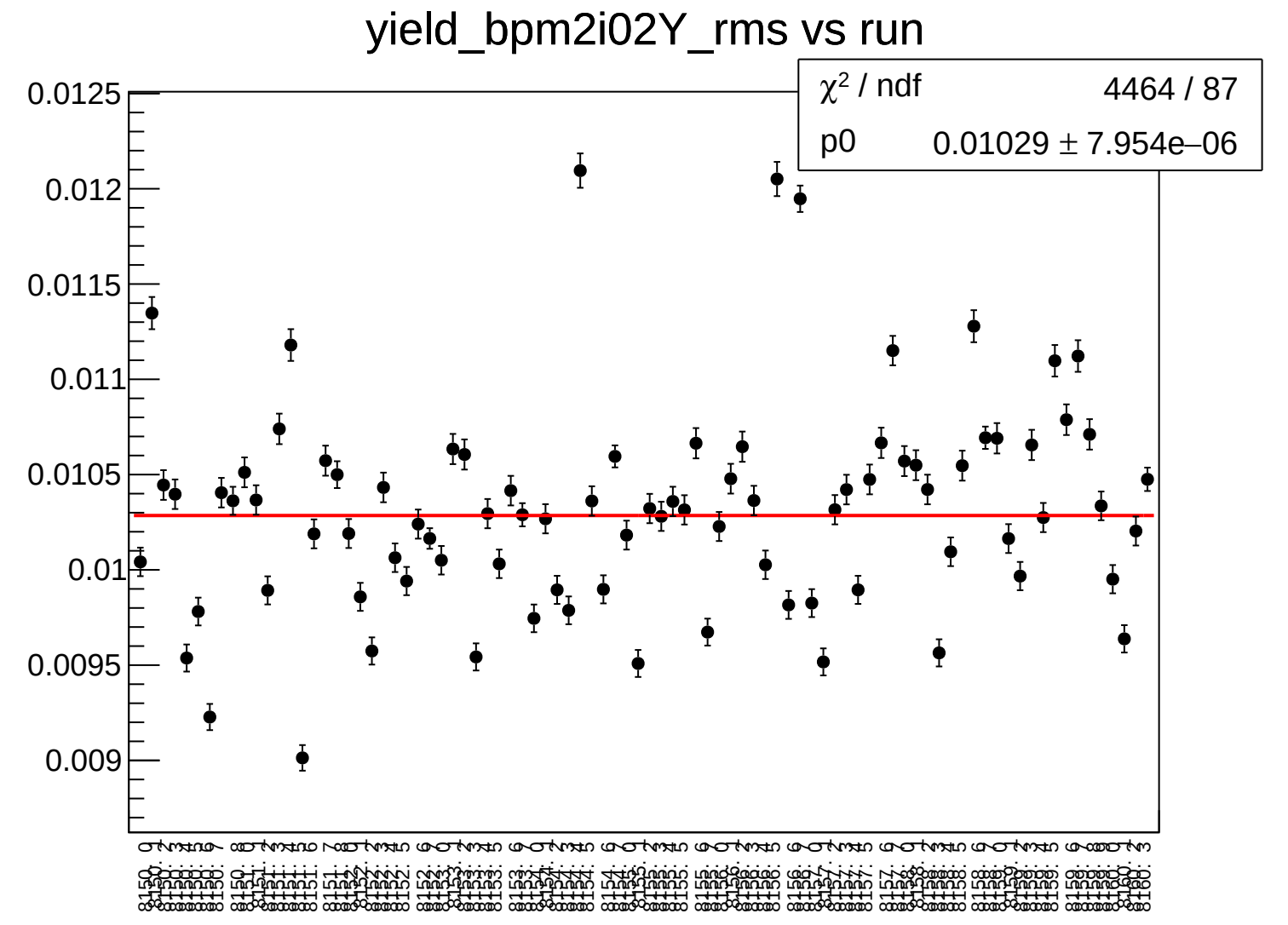

yield_bpm2i02X_mean vs run
χ² / ndf 3.323e+05 / 87
p0 0.03772 ± 1.285e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
pull
Entries 88
Mean −1262
Std Dev 0
100
50
0
−50
−100

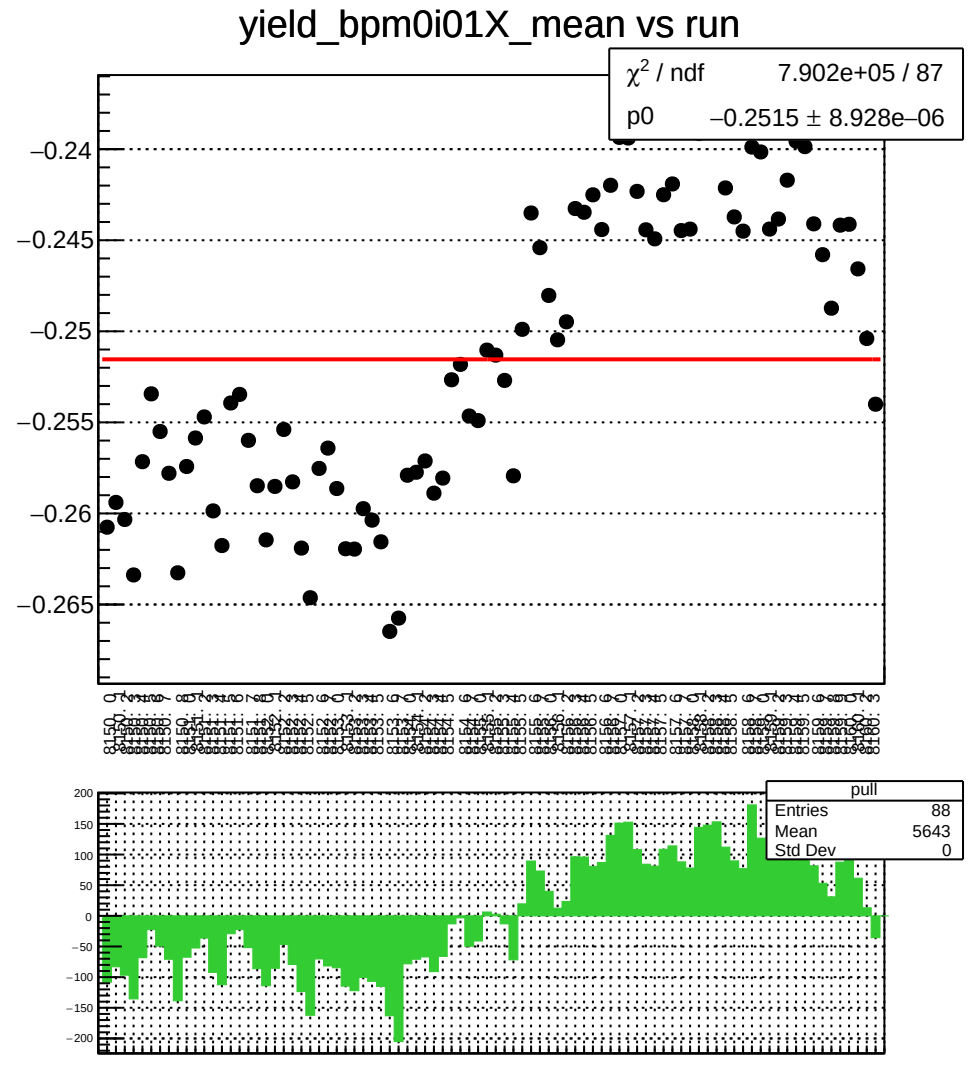

pull1D
Entries 88
Mean −1.617
Std Dev 4.338
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

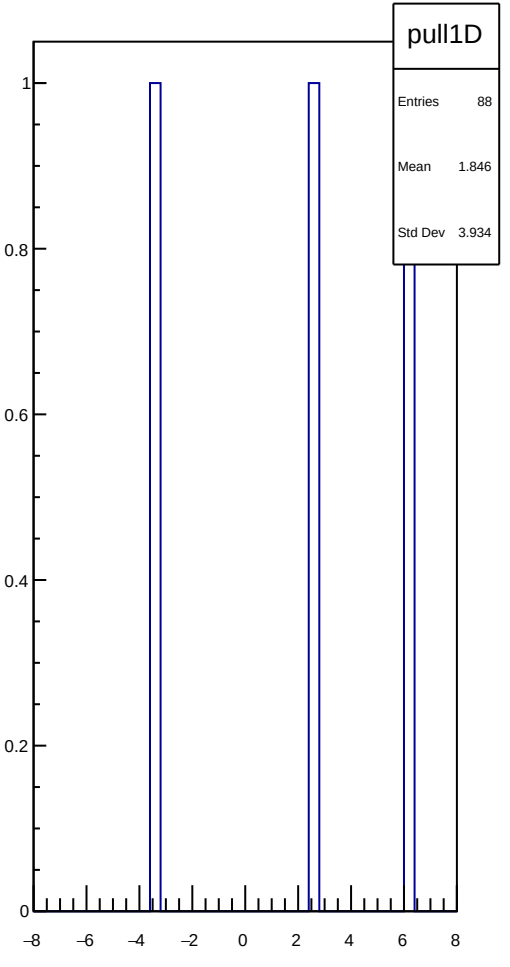

yield_bpm2i02X_rms vs run
χ² / ndf 5276 / 87
p0 0.01175 ± 9.088e–06
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01

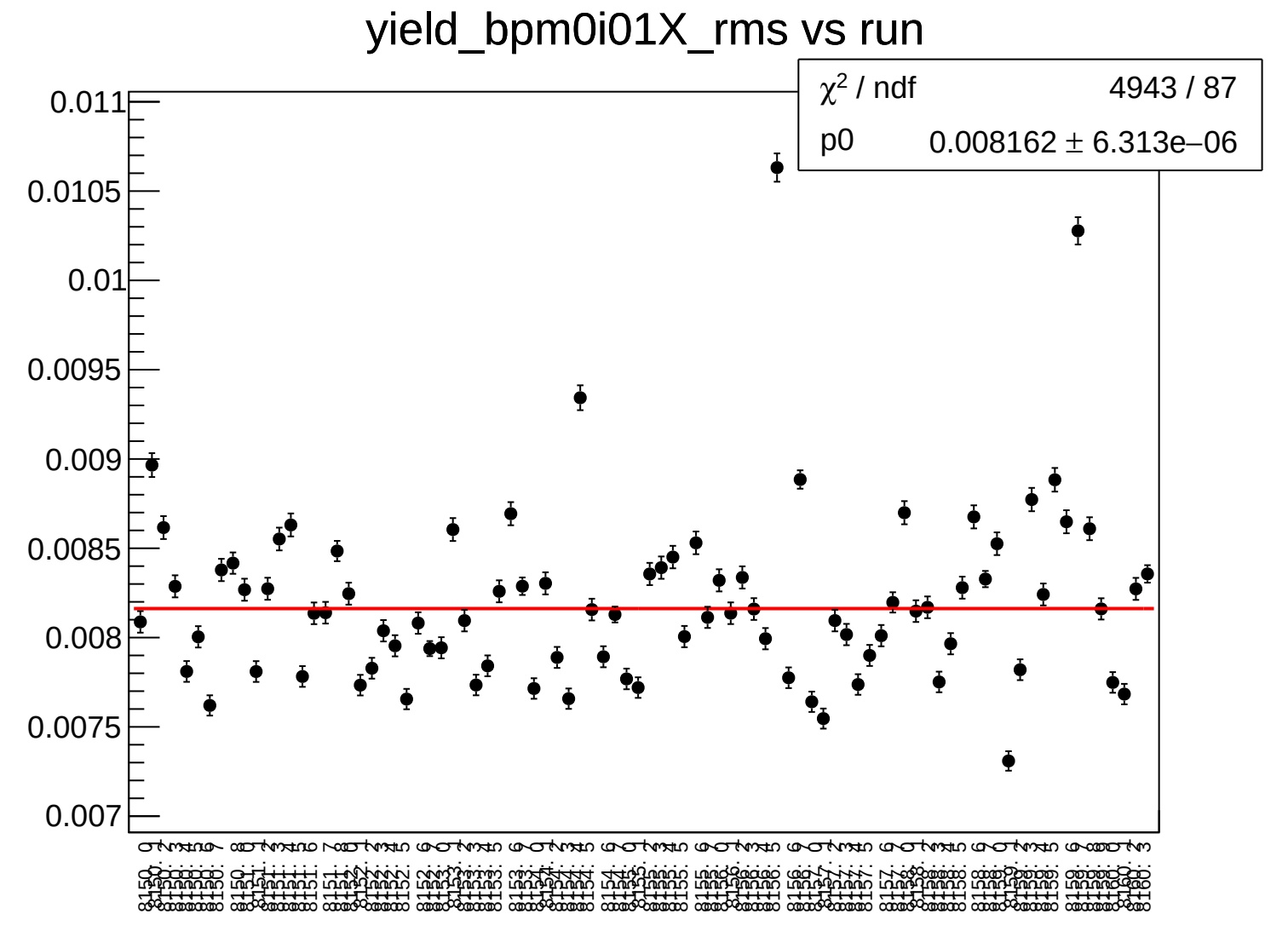

yield_bpm2i02Y_mean vs run
χ² / ndf 4.143e+05 / 87
p0 −1.232 ± 1.125e−05
−1.215
−1.22
−1.225
−1.23
−1.235
−1.24
−1.245
pull
Entries 88
Mean −197.5
Std Dev 0
150
100
50
0
−50
−100

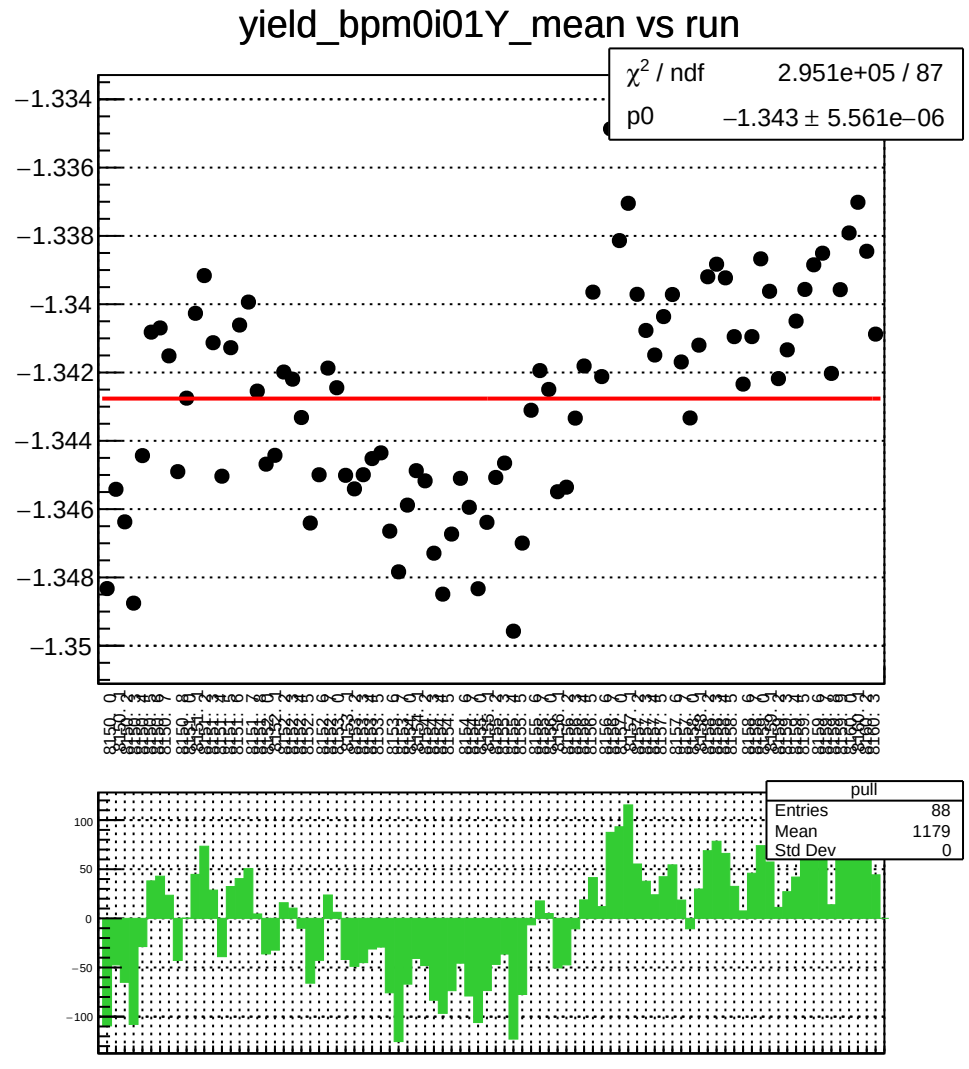

pull1D
Entries 88
Mean −0.7293
Std Dev 5.673
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

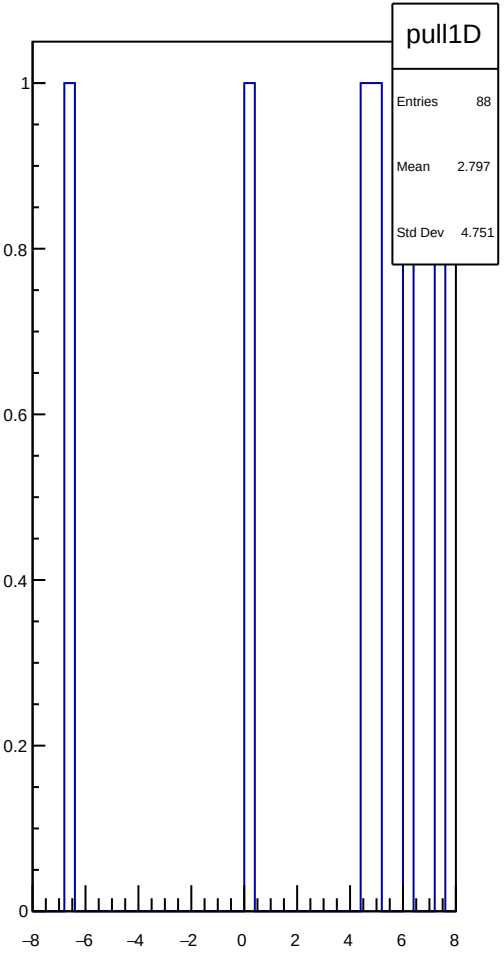

yield_bpm2i02Y_rms vs run
χ² / ndf 4464 / 87
p0 0.01029 ± 7.954e−06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

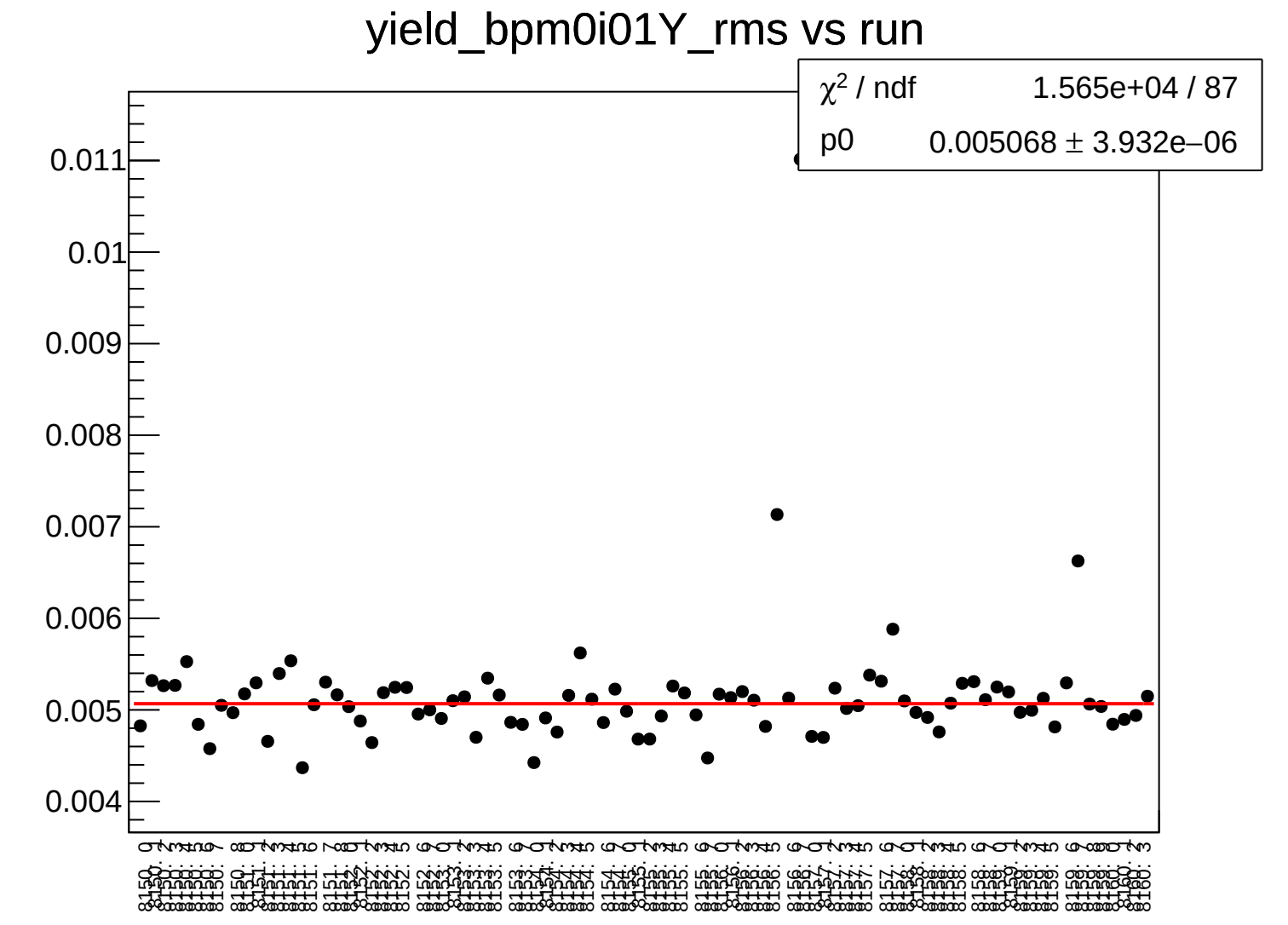

yield_bpm0i01X_mean vs run
χ² / ndf 7.902e+05 / 87
p0 −0.2515 ± 8.928e−06
−0.24
−0.245
−0.25
−0.255
−0.26
−0.265
pull
Entries 88
Mean 5643
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

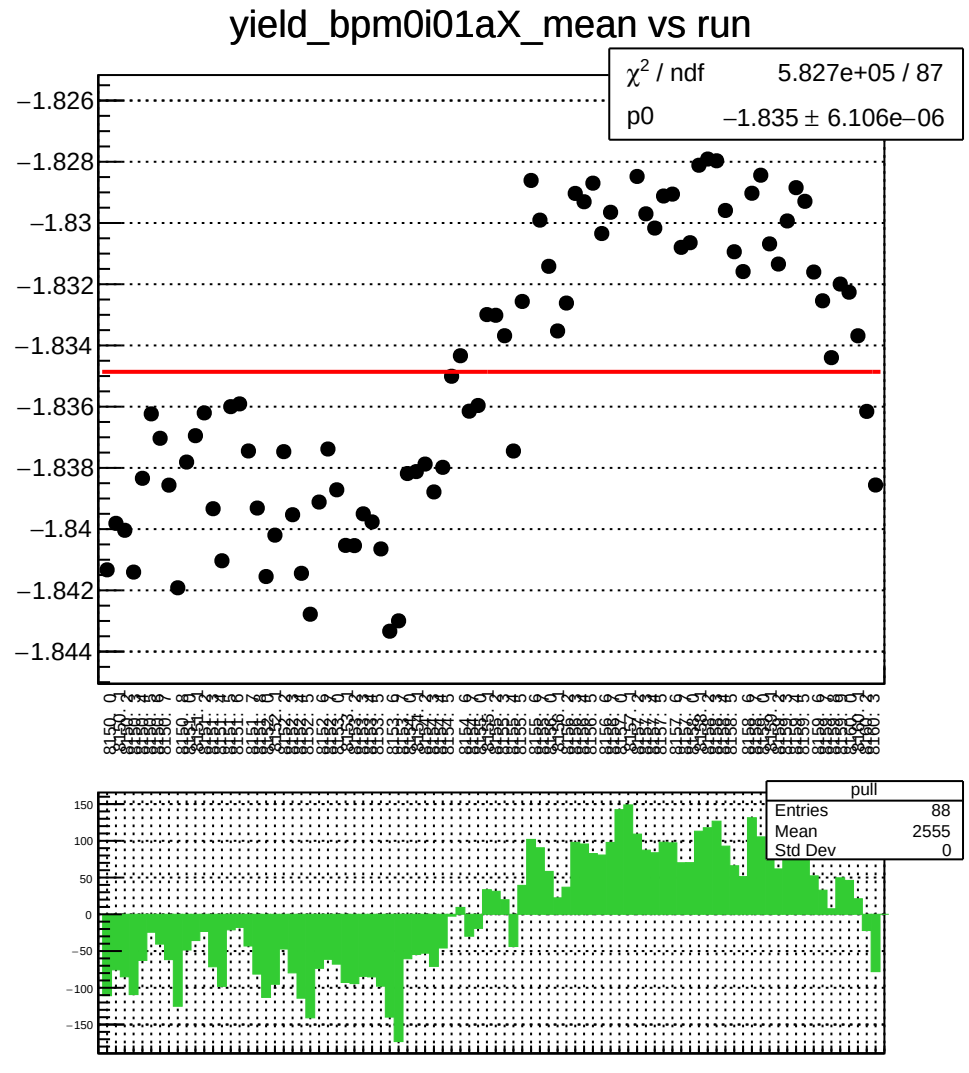

pull1D
Entries 88
Mean 1.846
Std Dev 3.934
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

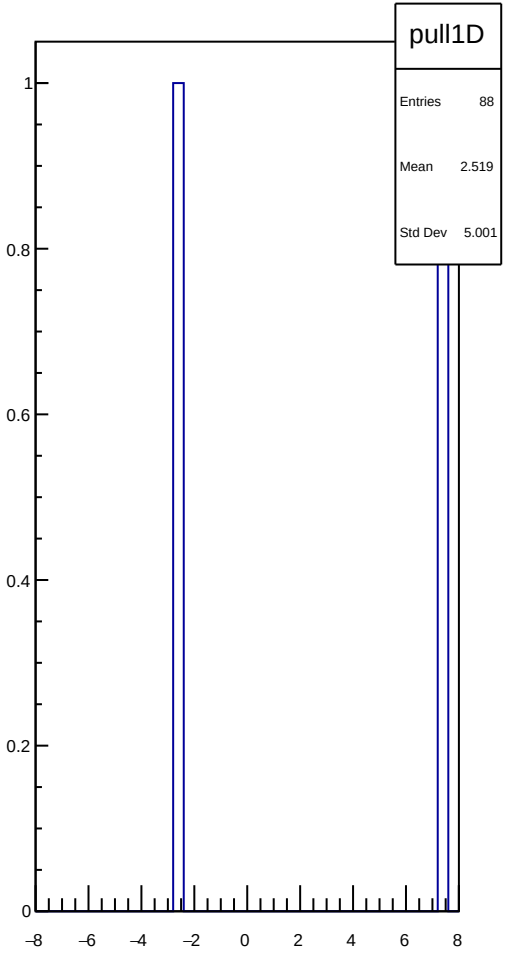

yield_bpm0i01X_rms vs run
χ² / ndf 4943 / 87
p0 0.008162 ± 6.313e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

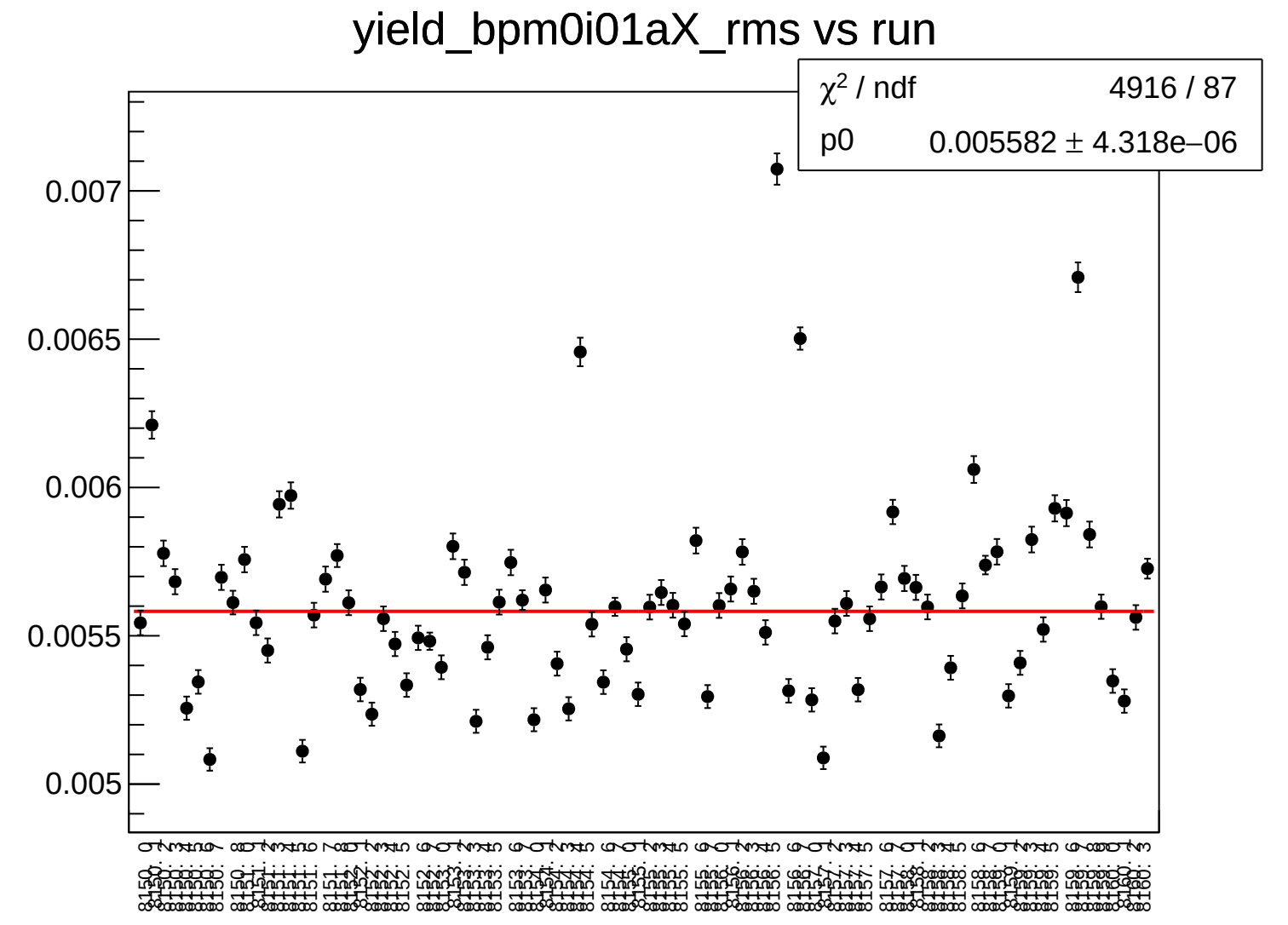

yield_bpm0i01Y_mean vs run
χ² / ndf 2.951e+05 / 87
p0 −1.343 ± 5.561e−06
−1.334
−1.336
−1.338
−1.34
−1.342
−1.344
−1.346
−1.348
−1.35
pull
Entries 88
Mean 1179
Std Dev 0
100
50
0
−50
−100

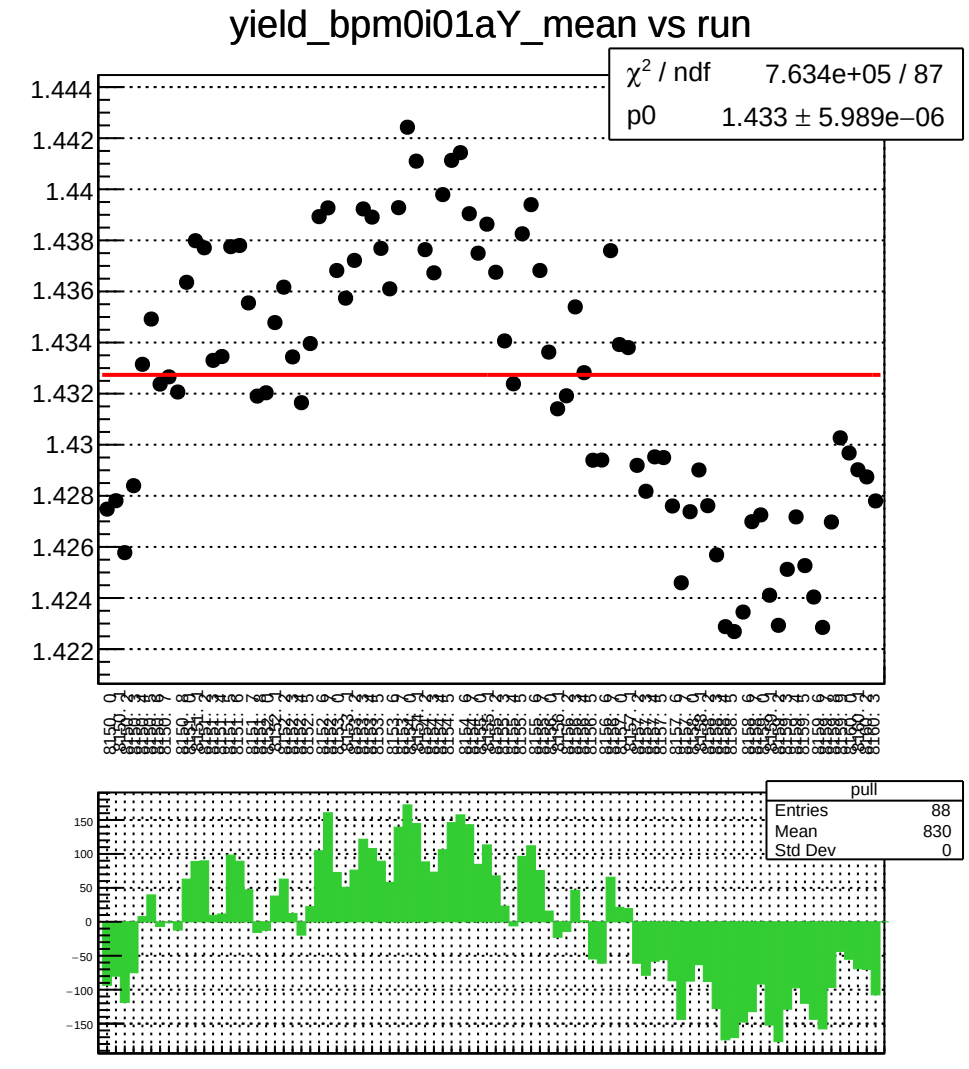

pull1D
Entries 88
Mean 2.797
Std Dev 4.751
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

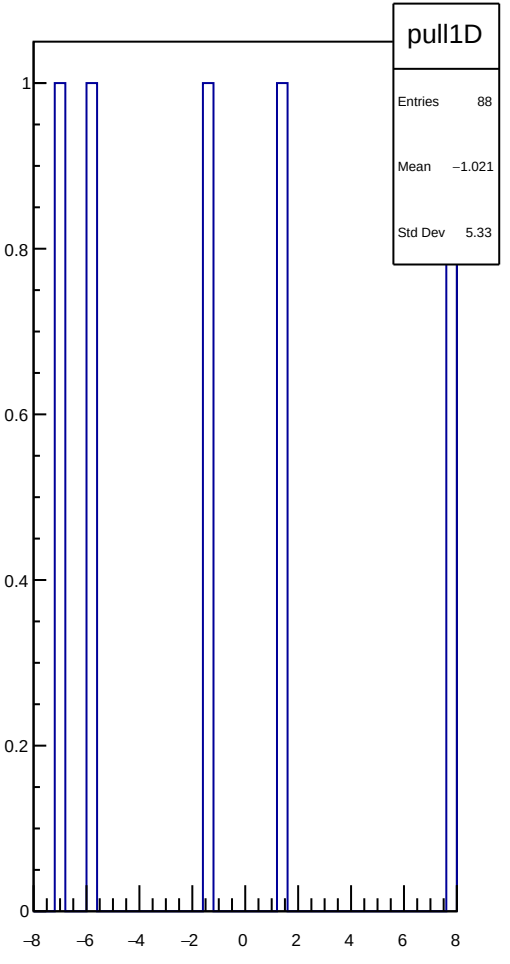

yield_bpm0i01Y_rms vs run
χ2 / ndf 1.565e+04 / 87
p0 0.005068 ± 3.932e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

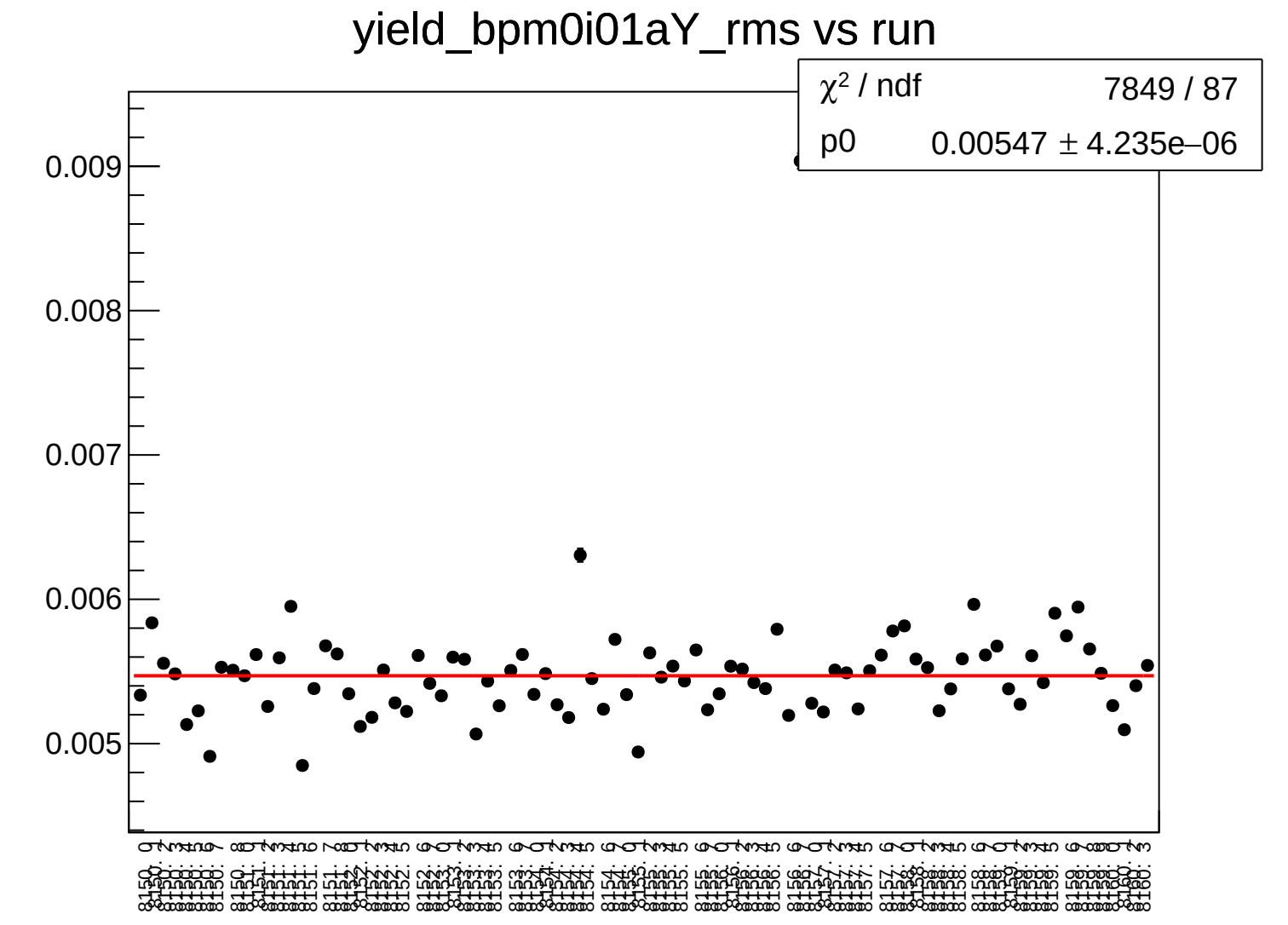

yield_bpm0i01aX_mean vs run
χ² / ndf 5.827e+05 / 87
p0 −1.835 ± 6.106e−06
−1.826
−1.828
−1.83
−1.832
−1.834
−1.836
−1.838
−1.84
−1.842
−1.844
pull
Entries 88
Mean 2555
Std Dev 0
150
100
50
0
−50
−100
−150

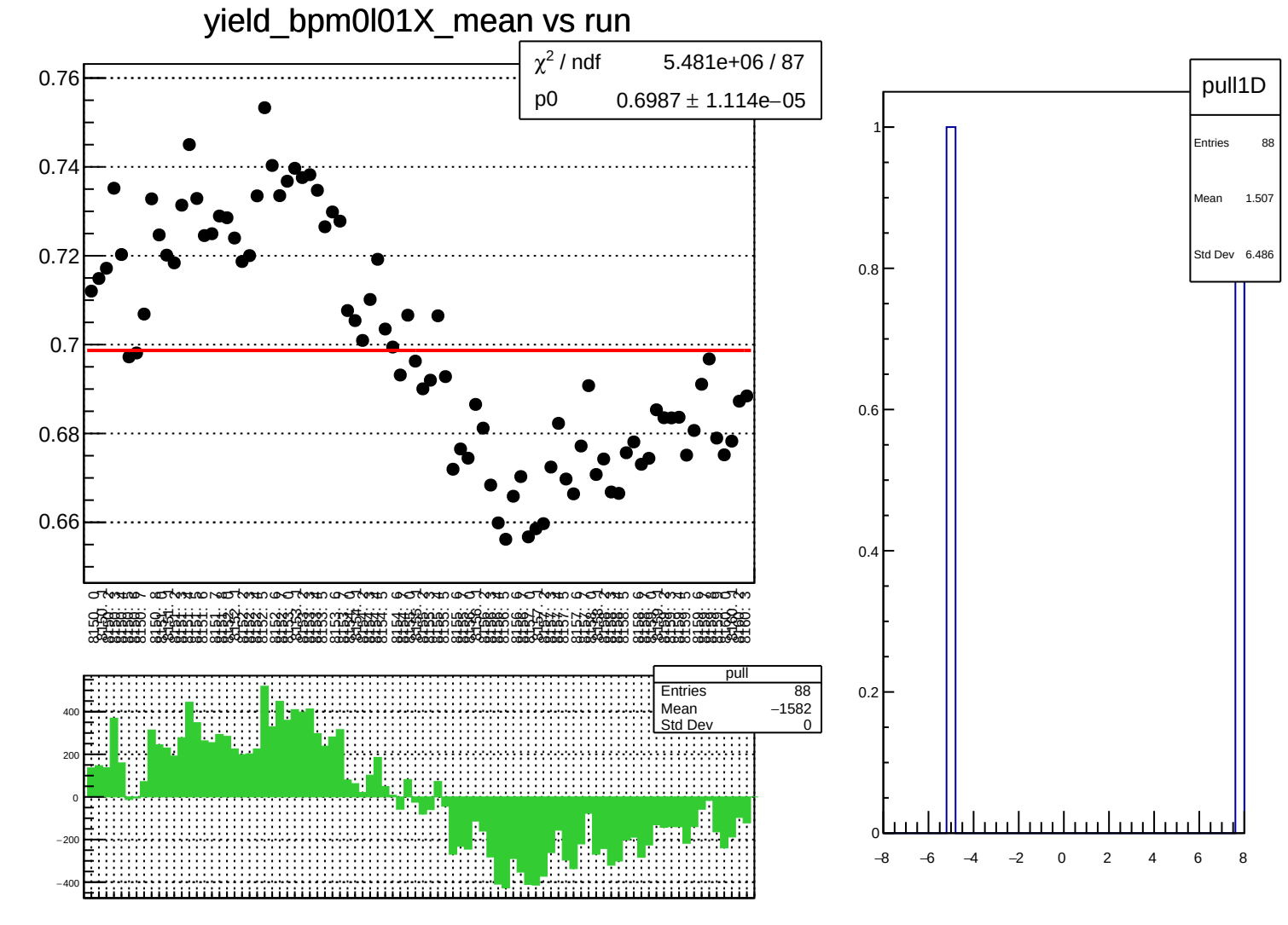

pull1D
Entries 88
Mean 2.519
Std Dev 5.001
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

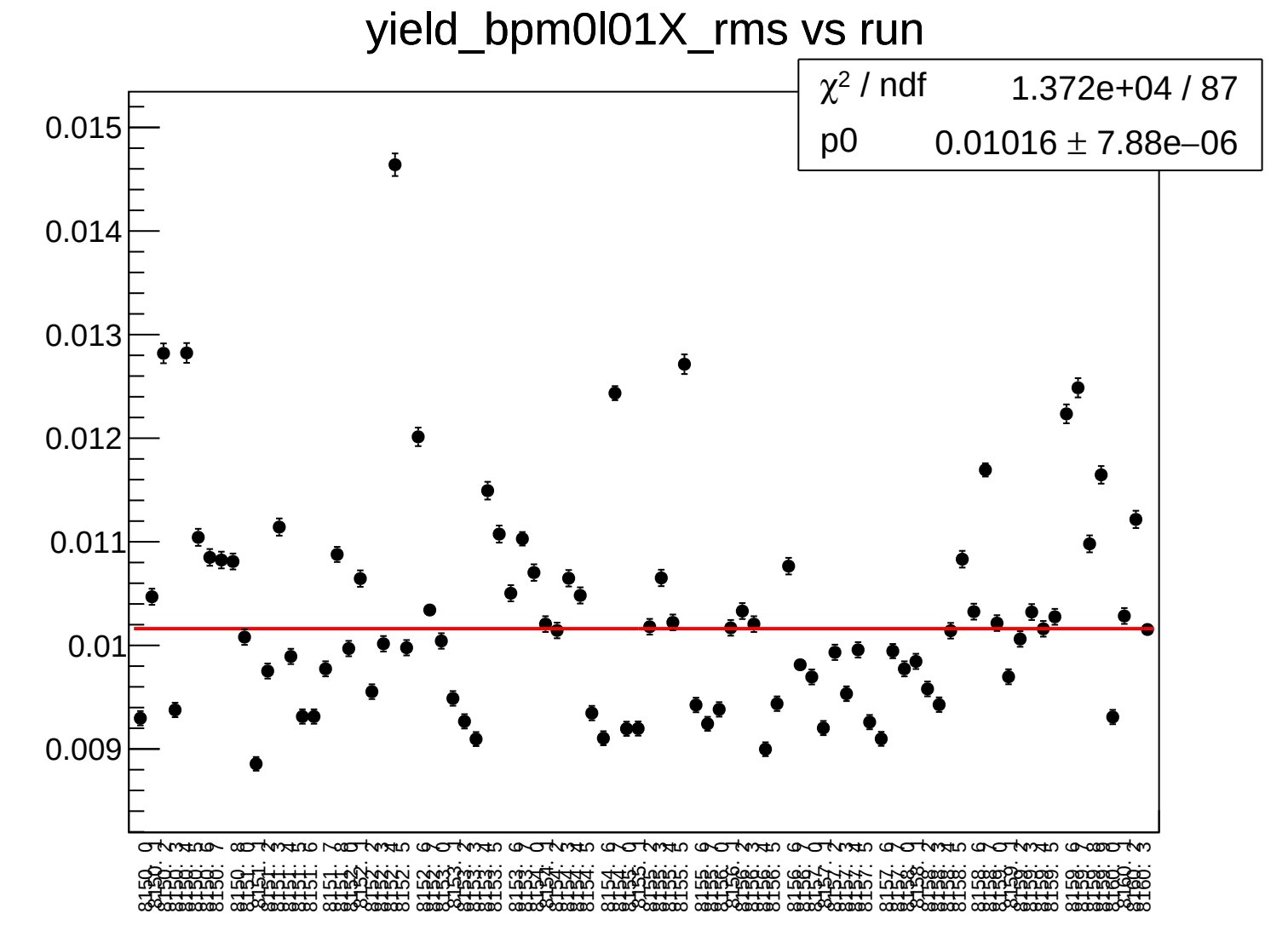

yield_bpm0i01aX_rms vs run
χ² / ndf 4916 / 87
p0 0.005582 ± 4.318e−06
0.007
0.0065
0.006
0.0055
0.005

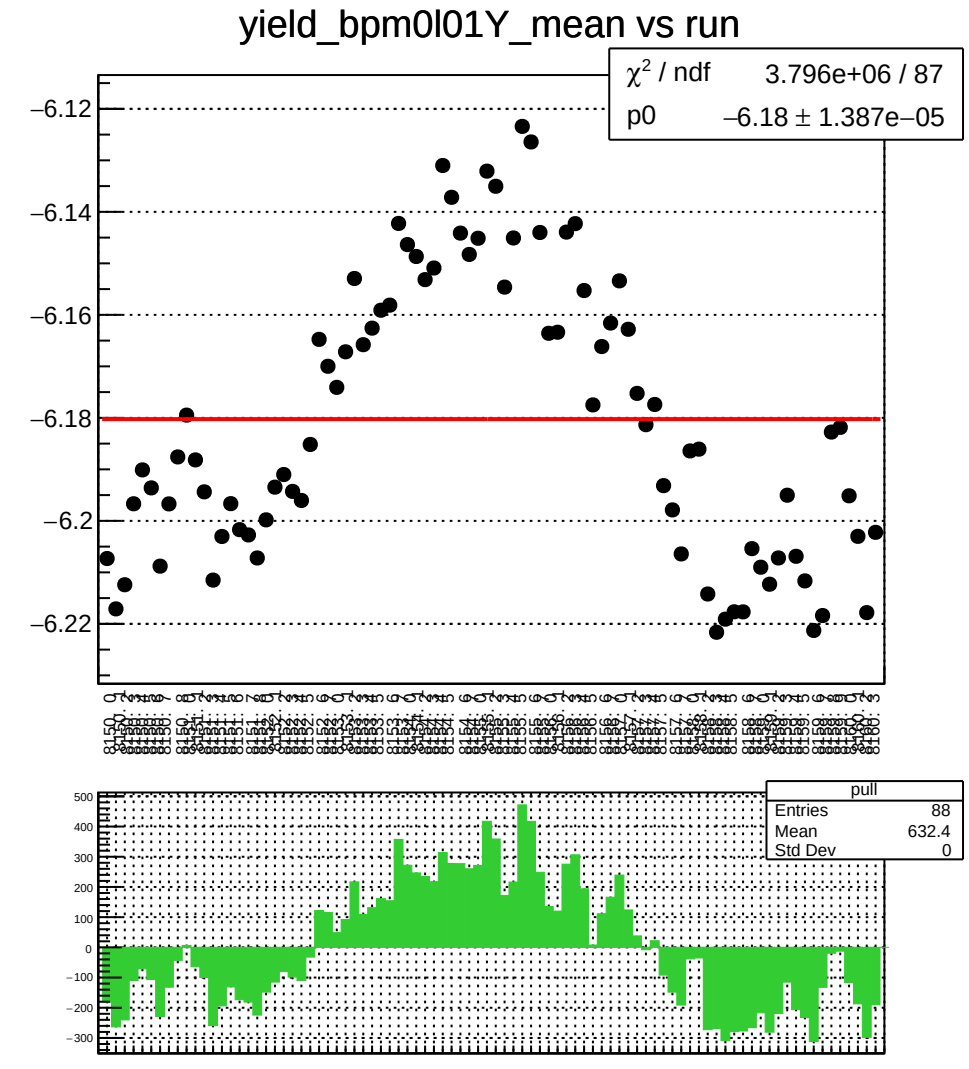

yield_bpm0i01aY_mean vs run
χ² / ndf 7.634e+05 / 87
p0 1.433 ± 5.989e−06
1.444
1.442
1.44
1.438
1.436
1.434
1.432
1.43
1.428
1.426
1.424
1.422
pull
Entries 88
Mean 830
Std Dev 0
150
100
50
0
−50
−100
−150

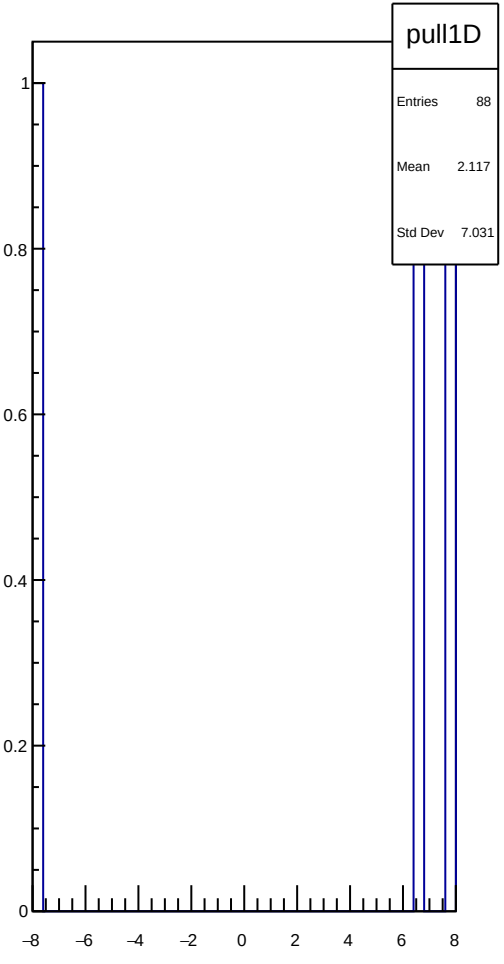

pull1D
Entries 88
Mean −1.021
Std Dev 5.33
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

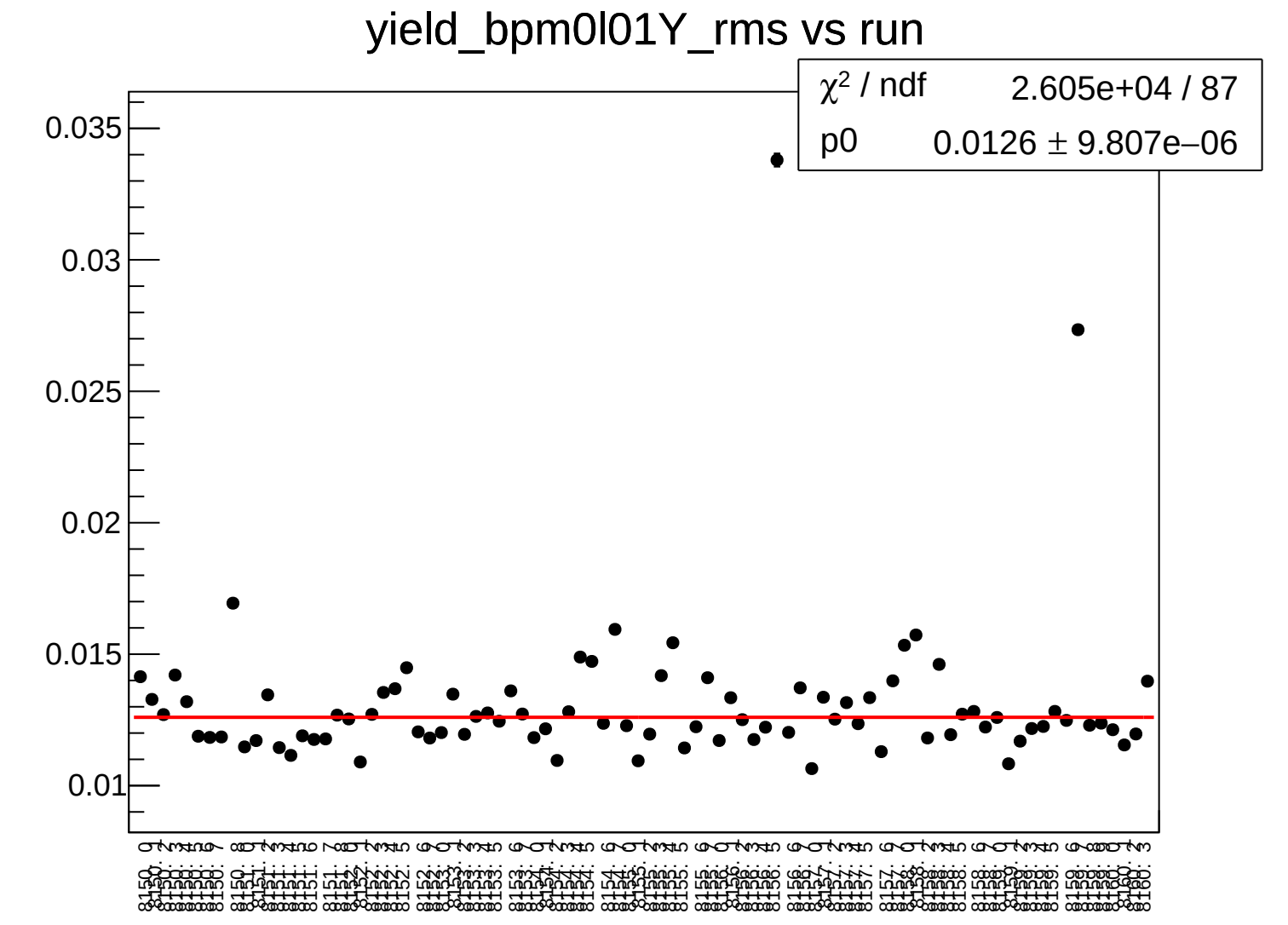

yield_bpm0i01aY_rms vs run
χ² / ndf 7849 / 87
p0 0.00547 ± 4.235e–06
0.009
0.008
0.007
0.006
0.005

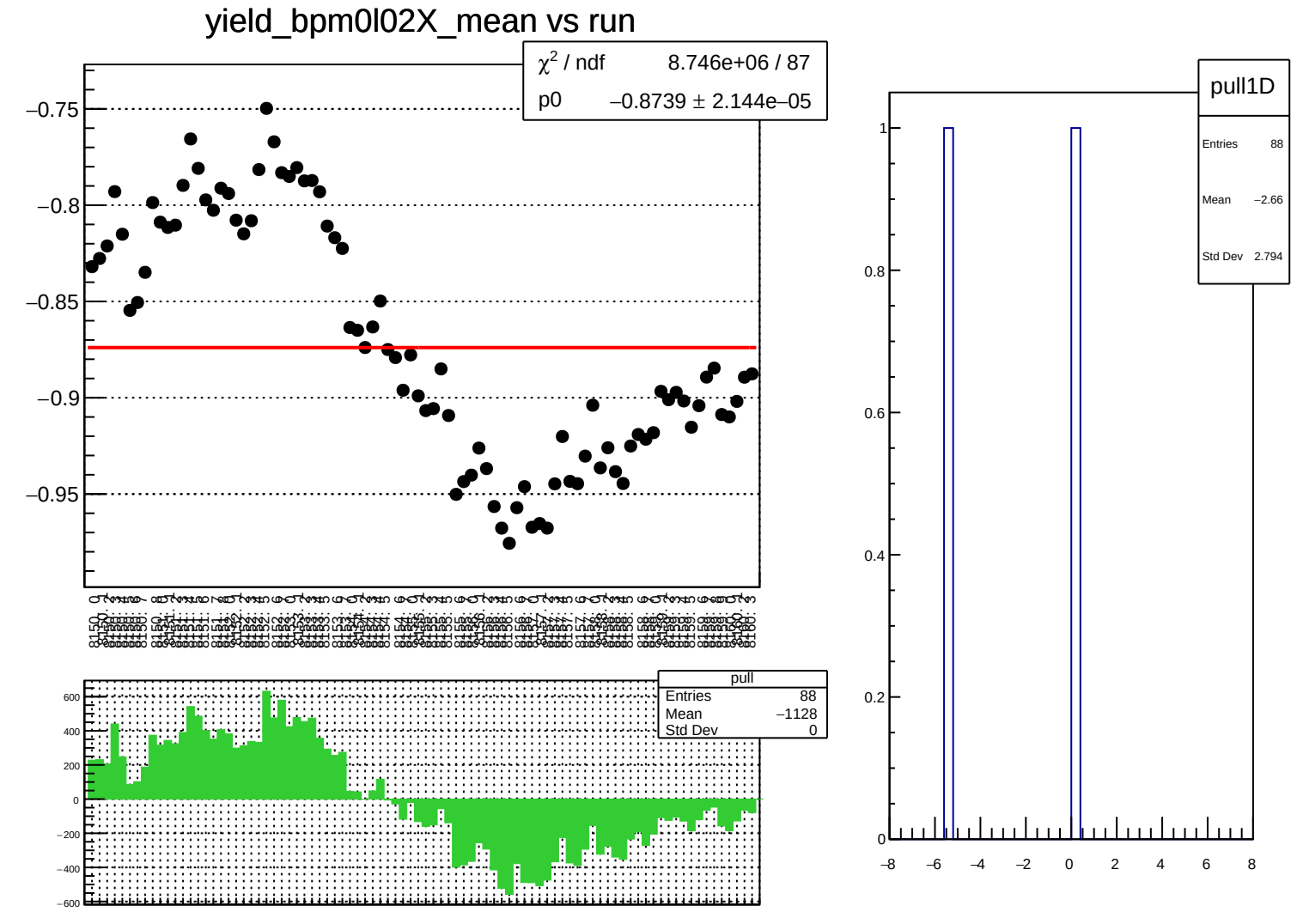

yield_bpm0l01X_mean vs run
χ² / ndf 5.481e+06 / 87
p0 0.6987 ± 1.114e−05
0.76
0.74
0.72
0.7
0.68
0.66
pull
Entries 88
Mean −1582
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 88
Mean 1.507
Std Dev 6.486
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

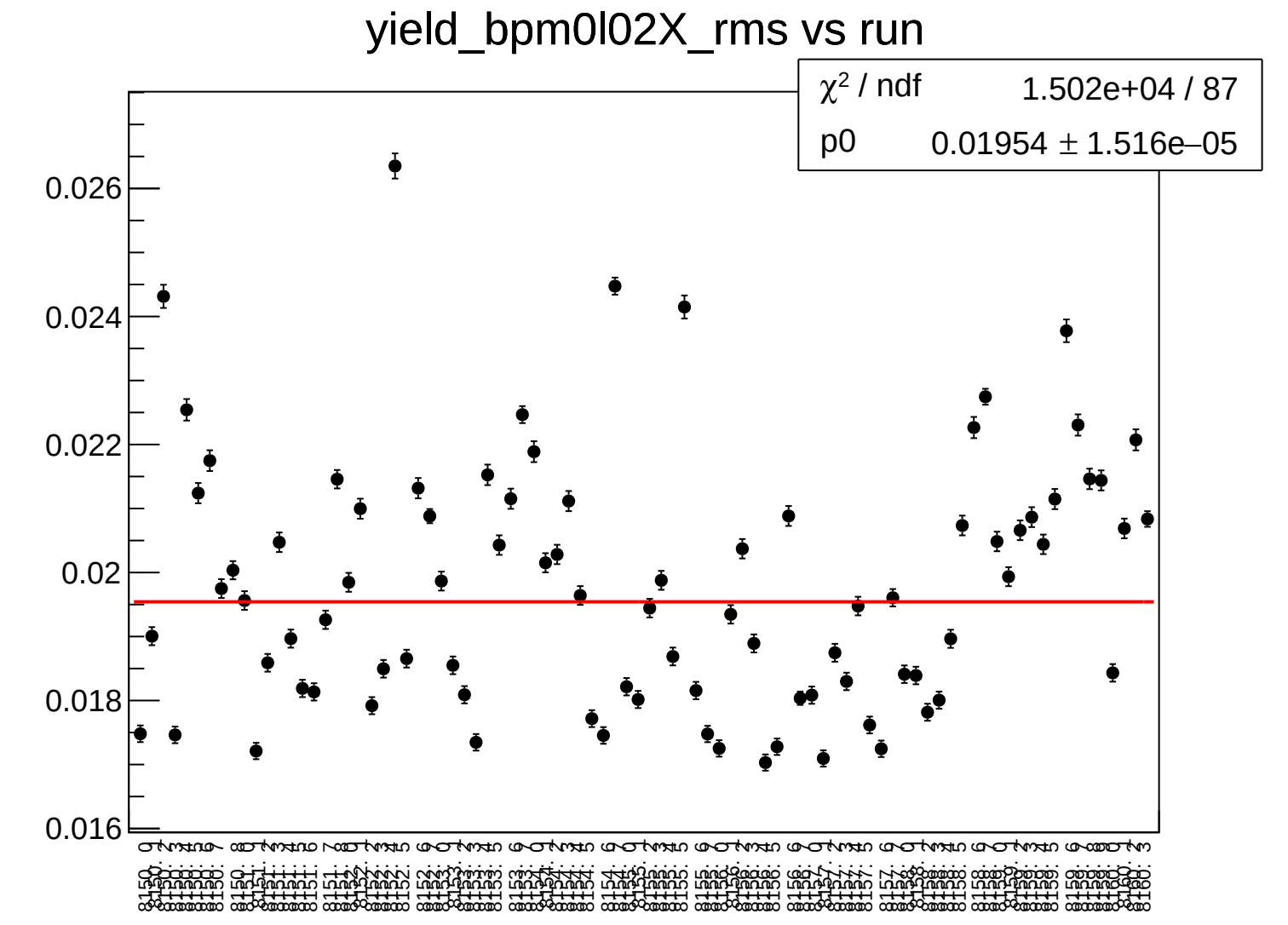

yield_bpm0l01X_rms vs run
χ² / ndf 1.372e+04 / 87
p0 0.01016 ± 7.88e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009

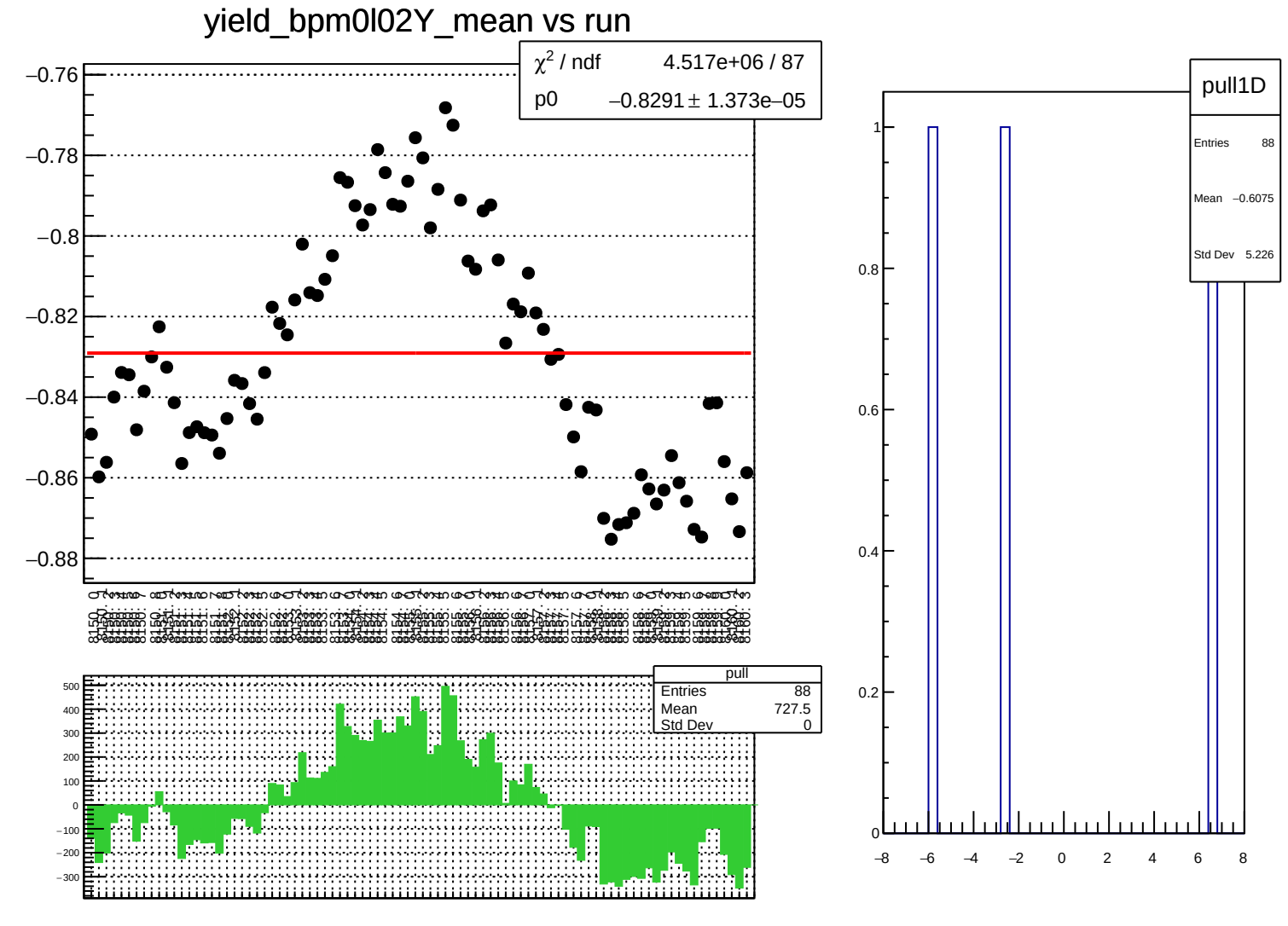

yield_bpm0l01Y_mean vs run
χ² / ndf 3.796e+06 / 87
p0 −6.18 ± 1.387e−05
−6.12
−6.14
−6.16
−6.18
−6.2
−6.22
pull
Entries 88
Mean 632.4
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

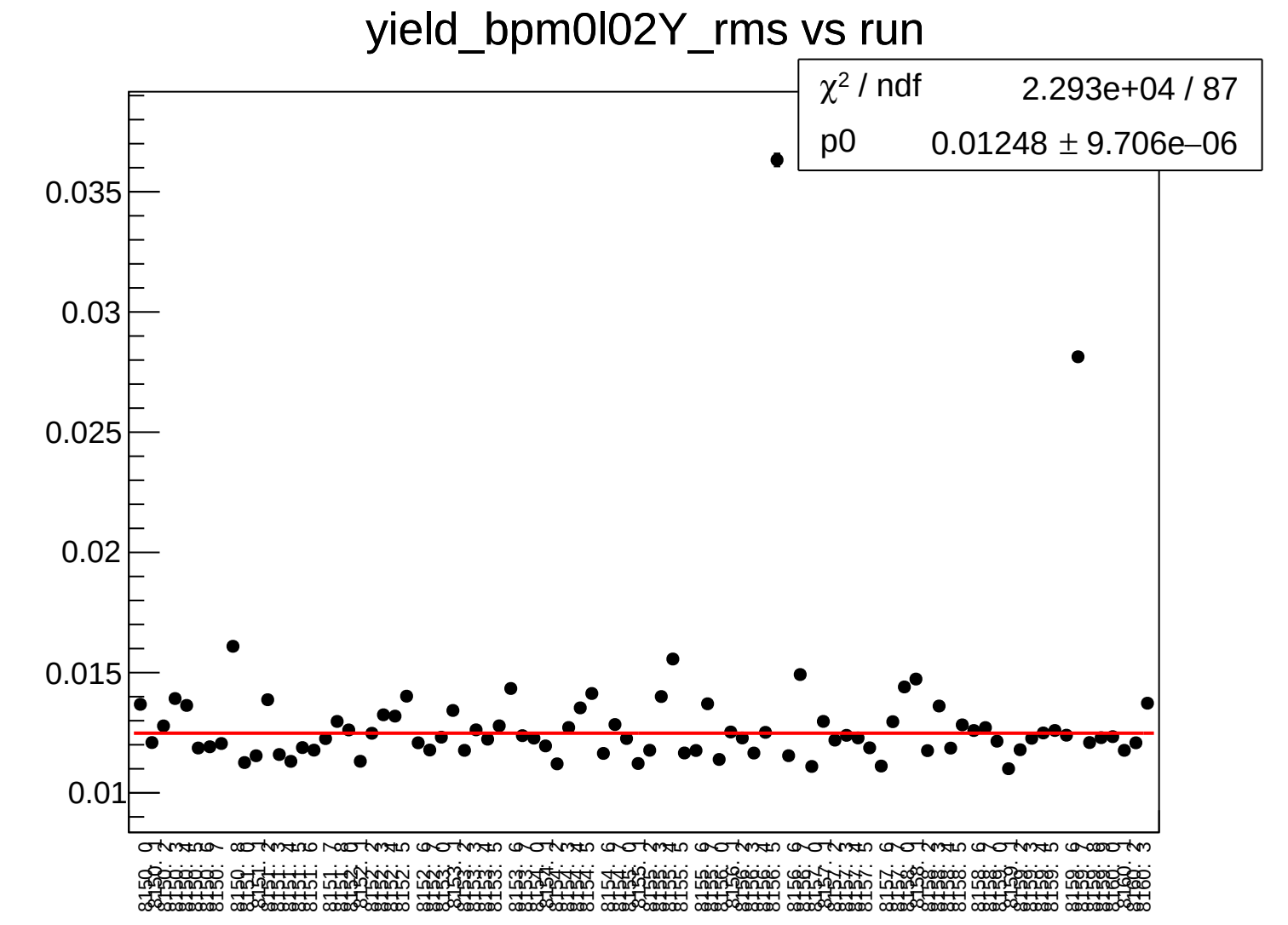

pull1D
Entries 88
Mean 2.117
Std Dev 7.031
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

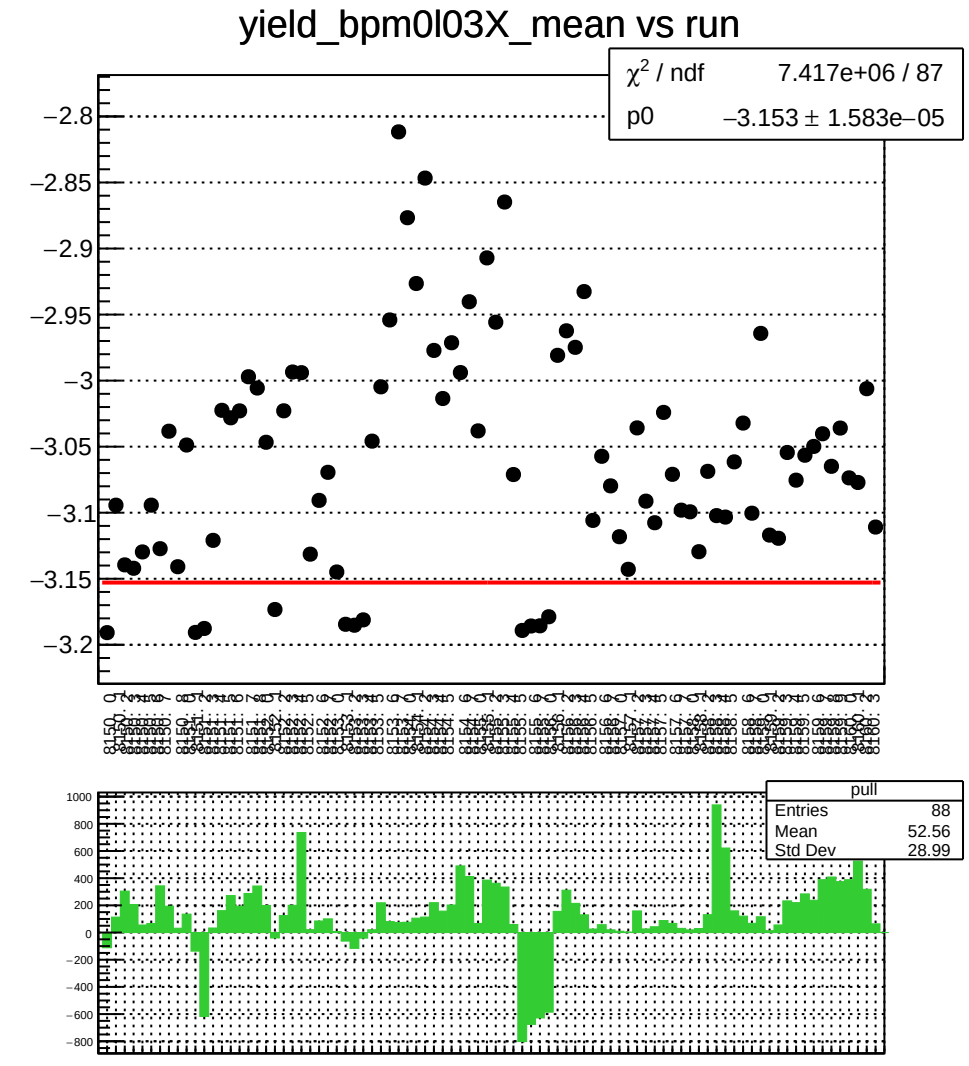

yield_bpm0l01Y_rms vs run
χ² / ndf 2.605e+04 / 87
p0 0.0126 ± 9.807e−06
0.035
0.03
0.025
0.02
0.015
0.01

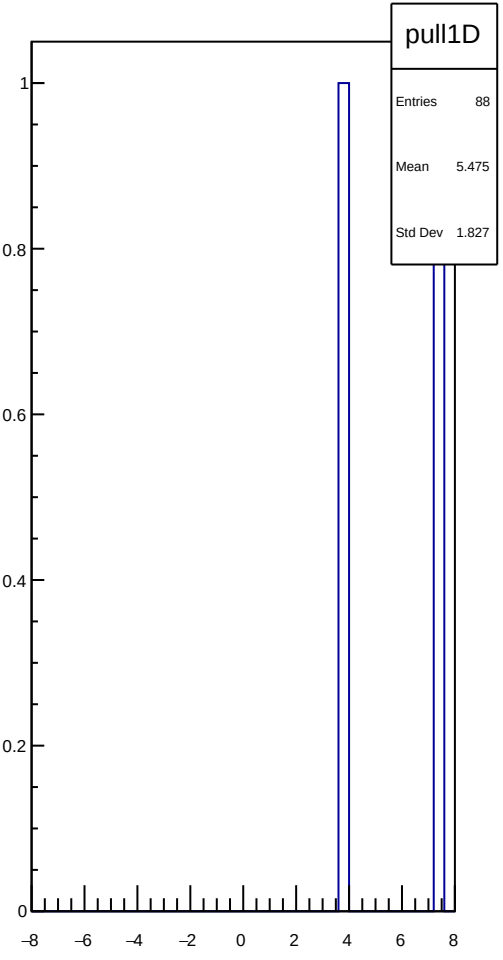

yield_bpm0l02X_mean vs run
χ² / ndf 8.746e+06 / 87
p0 −0.8739 ± 2.144e−05
−0.75
−0.8
−0.85
−0.9
−0.95
pull
Entries 88
Mean −1128
Std Dev 0
600
400
200
0
−200
−400
−600
pull1D
Entries 88
Mean −2.66
Std Dev 2.794
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

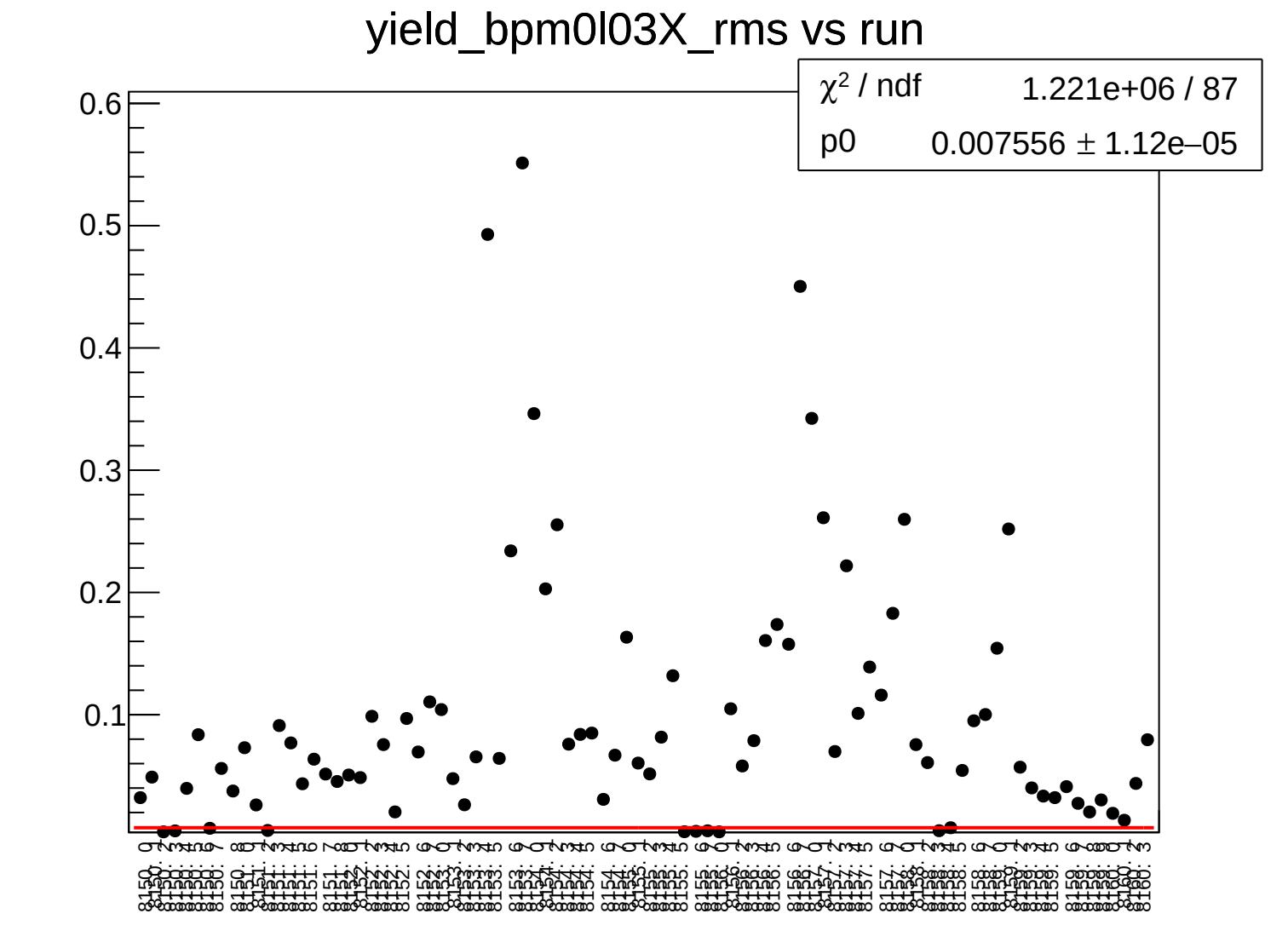

yield_bpm0l02X_rms vs run
χ² / ndf 1.502e+04 / 87
p0 0.01954 ± 1.516e−05
0.026
0.024
0.022
0.02
0.018
0.016

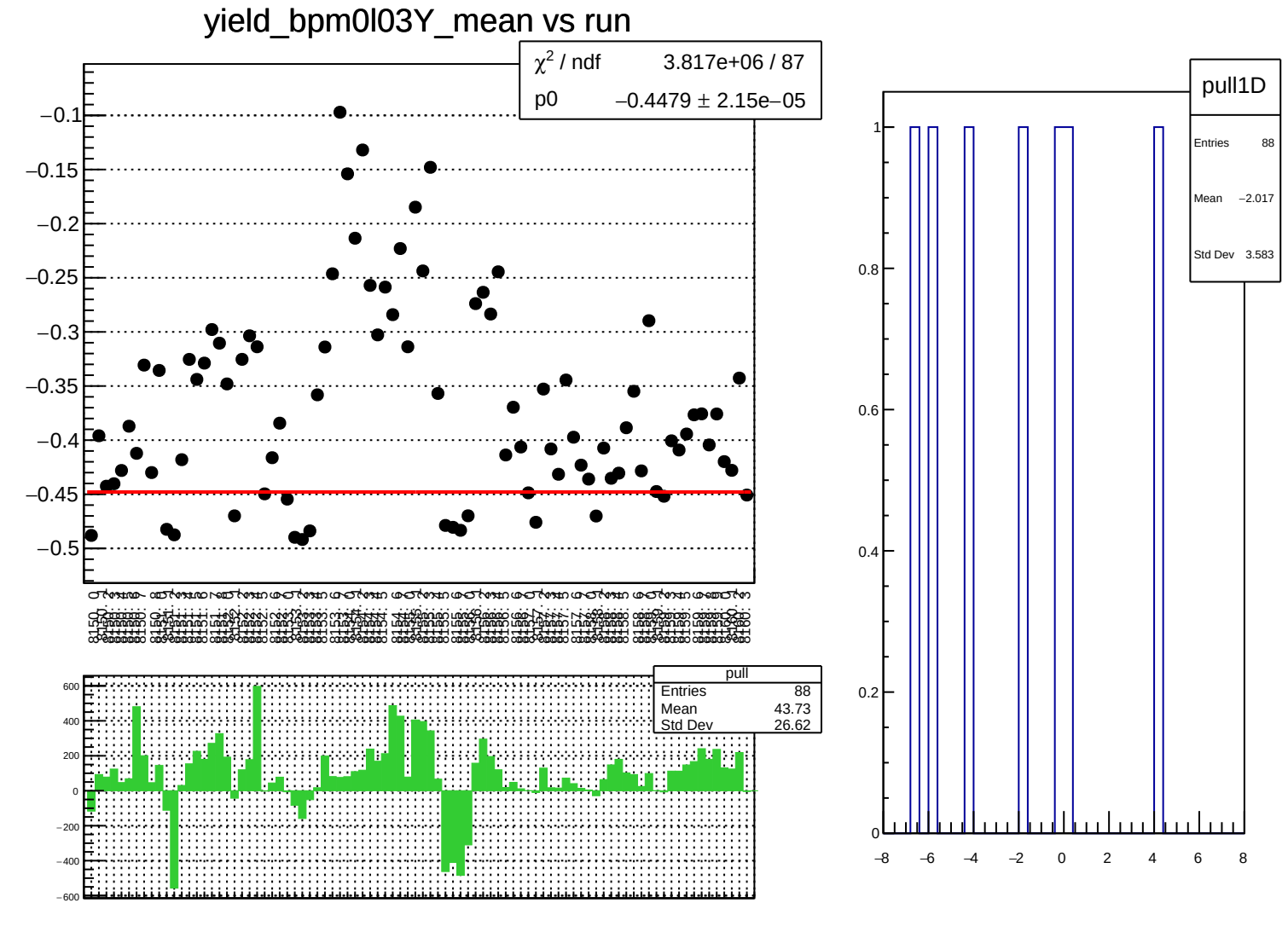

yield_bpm0l02Y_mean vs run
χ² / ndf 4.517e+06 / 87
p0 −0.8291 ± 1.373e−05
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
pull
Entries 88
Mean 727.5
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 88
Mean −0.6075
Std Dev 5.226
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

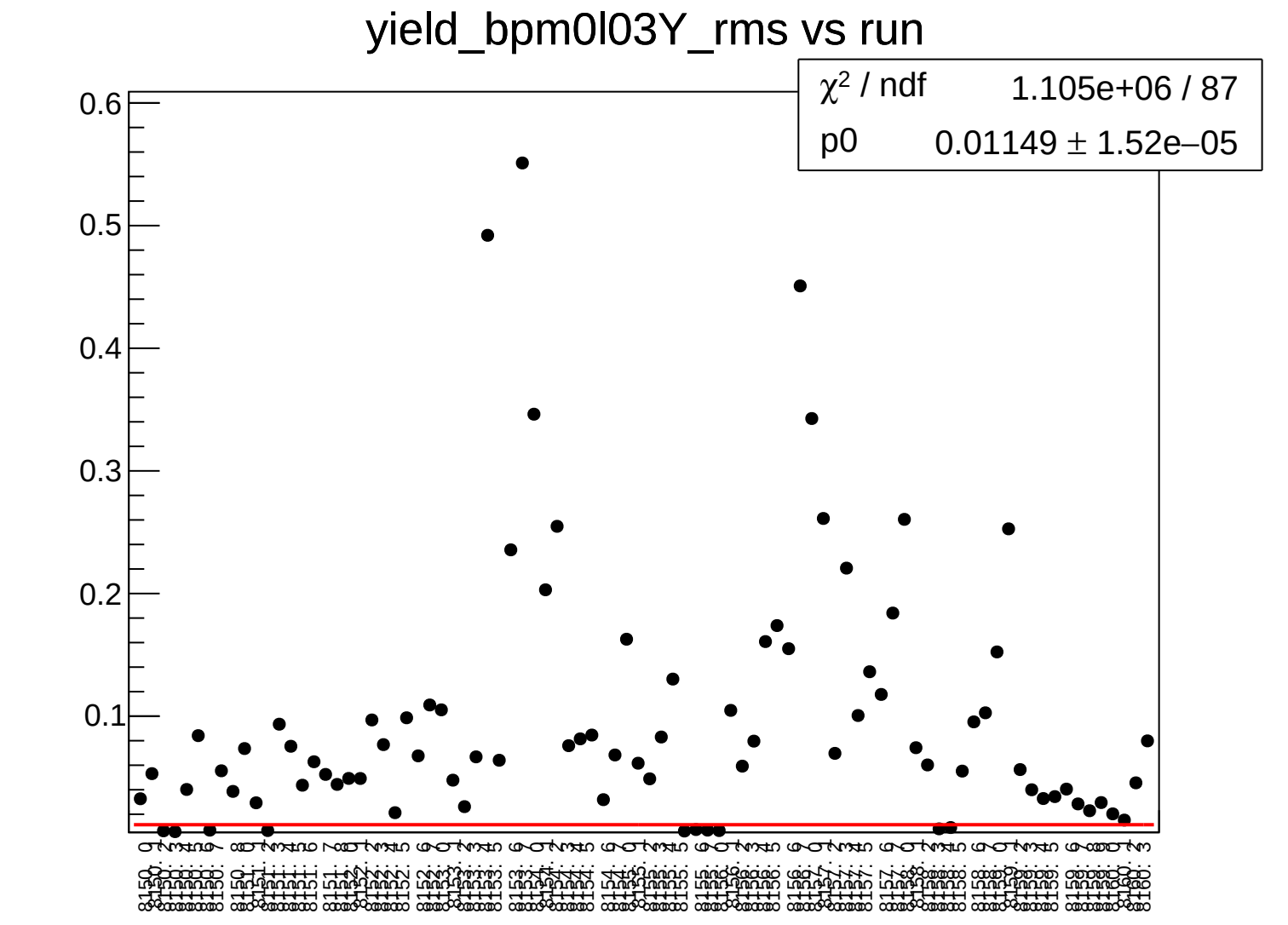

yield_bpm0l02Y_rms vs run
χ² / ndf 2.293e+04 / 87
p0 0.01248 ± 9.706e–06
0.035
0.03
0.025
0.02
0.015
0.01

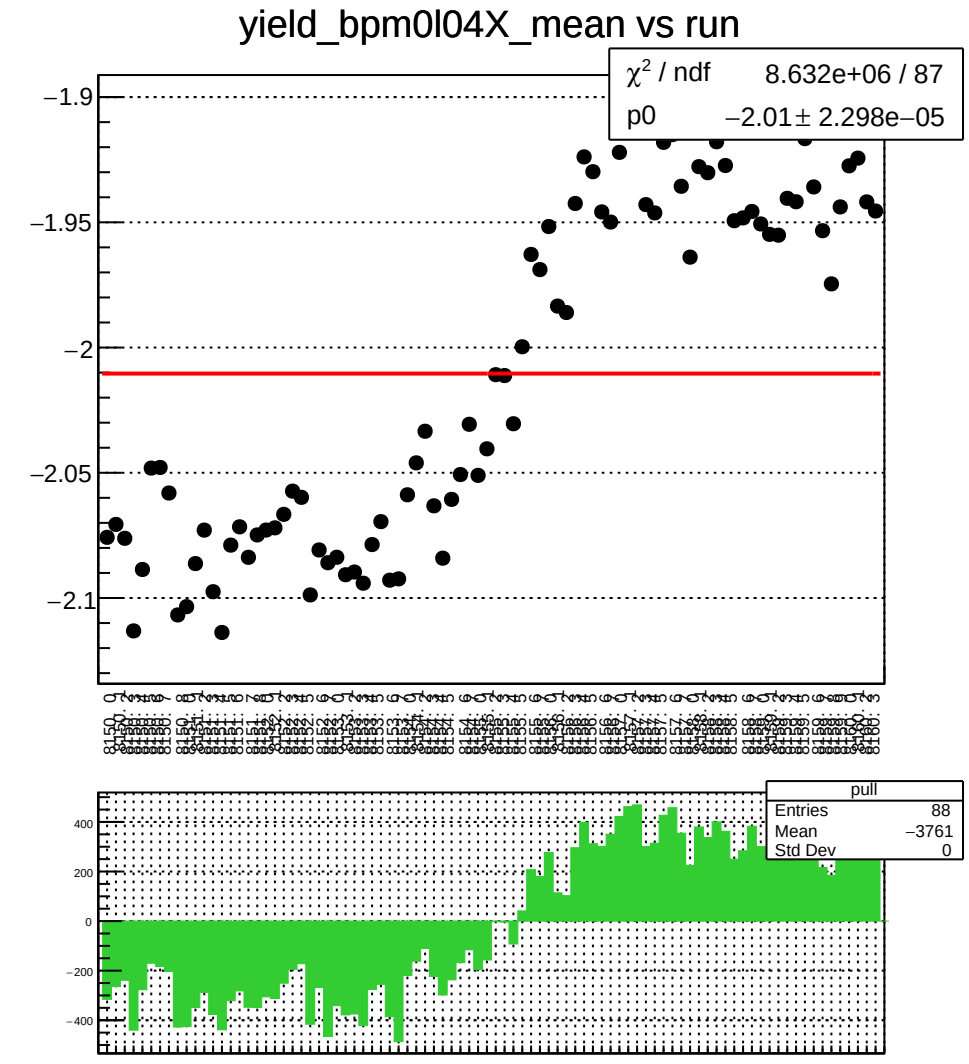

yield_bpm0l03X_mean vs run
χ² / ndf 7.417e+06 / 87
p0 −3.153 ± 1.583e−05
−2.8
−2.85
−2.9
−2.95
−3
−3.05
−3.1
−3.15
−3.2
pull
Entries 88
Mean 52.56
Std Dev 28.99
1000
800
600
400
200
0
−200
−400
−600
−800

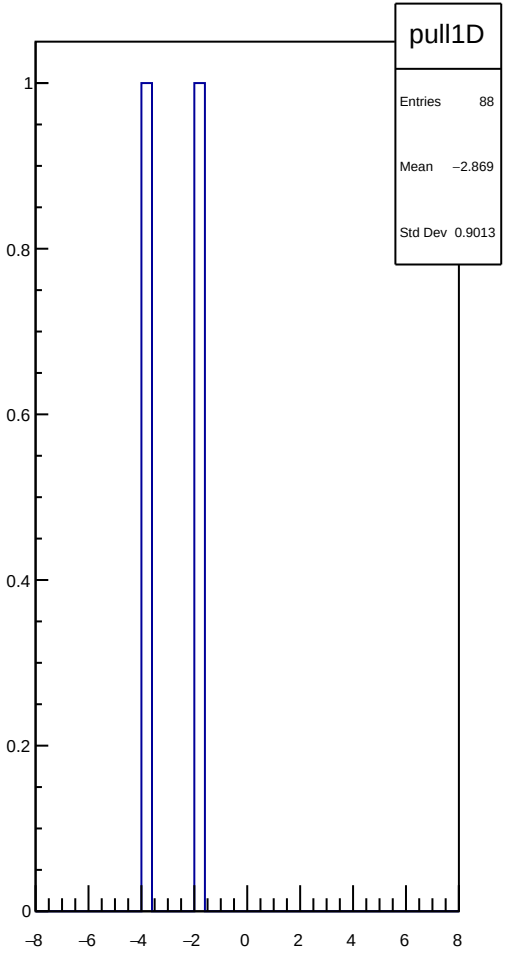

pull1D
Entries 88
Mean 5.475
Std Dev 1.827
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

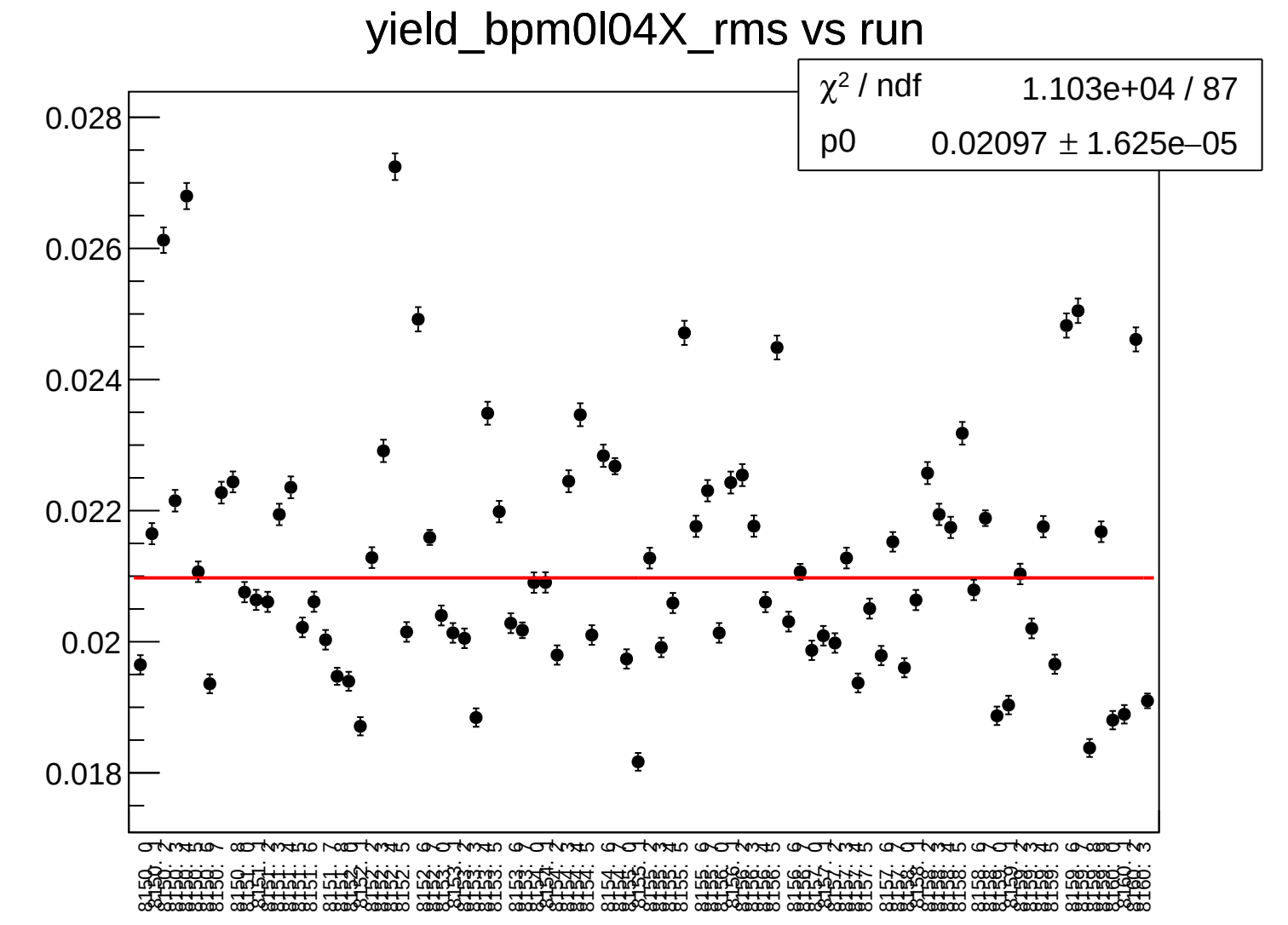

yield_bpm0l03X_rms vs run
χ² / ndf 1.221e+06 / 87
p0 0.007556 ± 1.12e–05
0.6
0.5
0.4
0.3
0.2
0.1

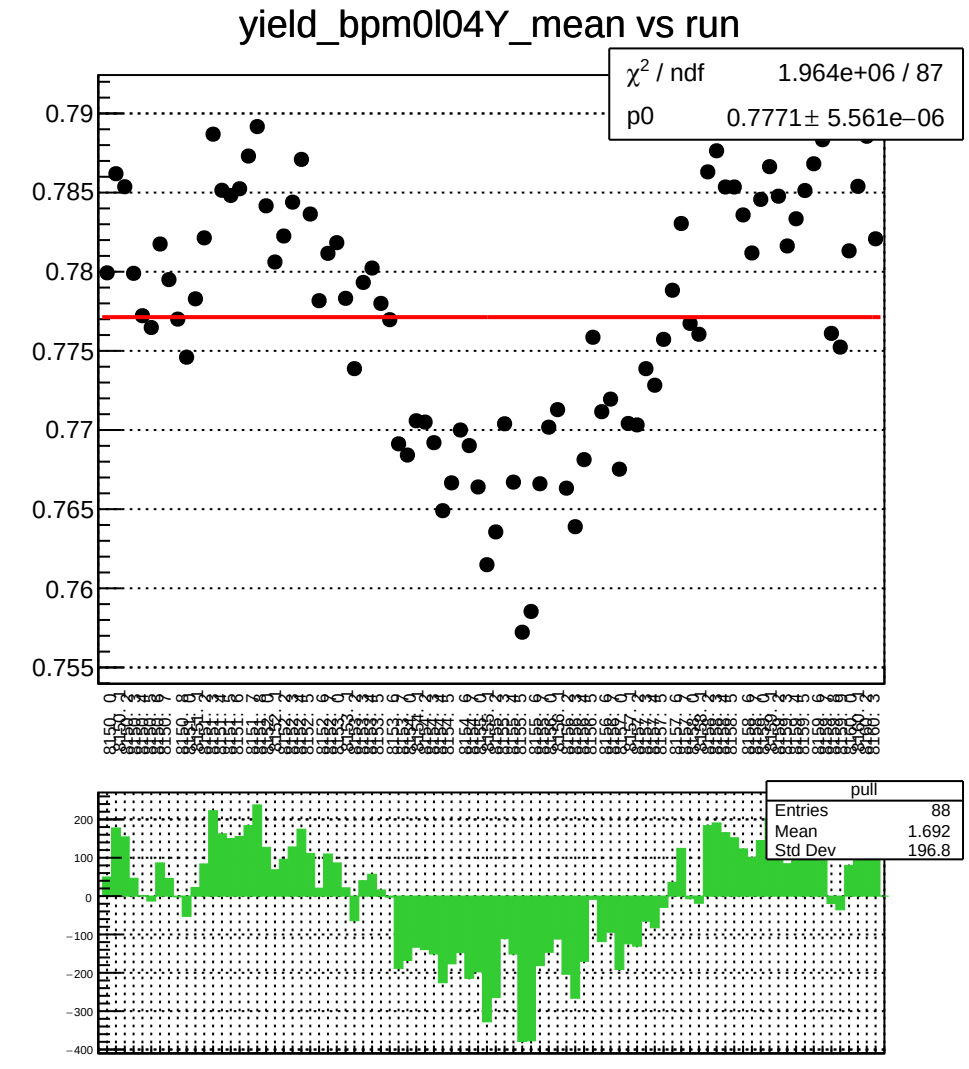

yield_bpm0l03Y_mean vs run
χ² / ndf 3.817e+06 / 87
p0 −0.4479 ± 2.15e−05
pull
Entries 88
Mean 43.73
Std Dev 26.62
pull1D
Entries 88
Mean −2.017
Std Dev 3.583

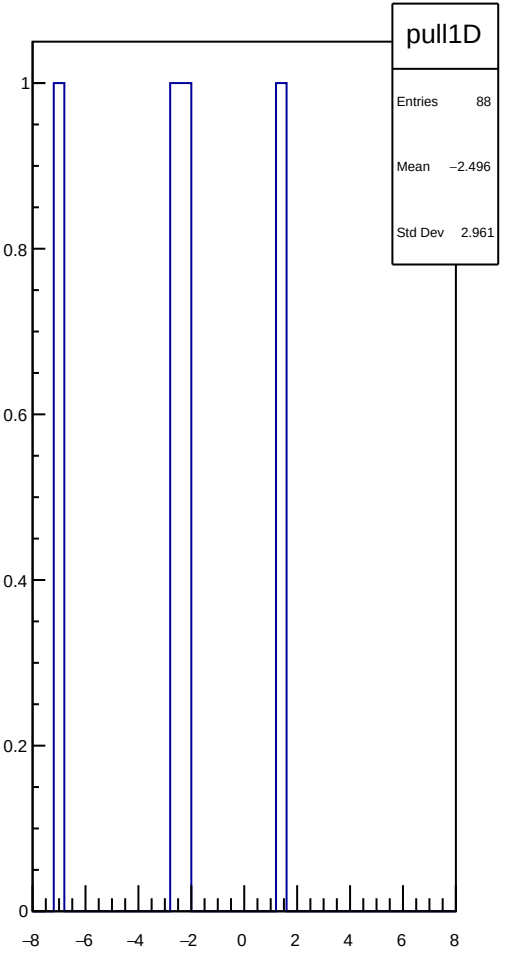

yield_bpm0l03Y_rms vs run
χ² / ndf 1.105e+06 / 87
p0 0.01149 ± 1.52e−05
0.6
0.5
0.4
0.3
0.2
0.1

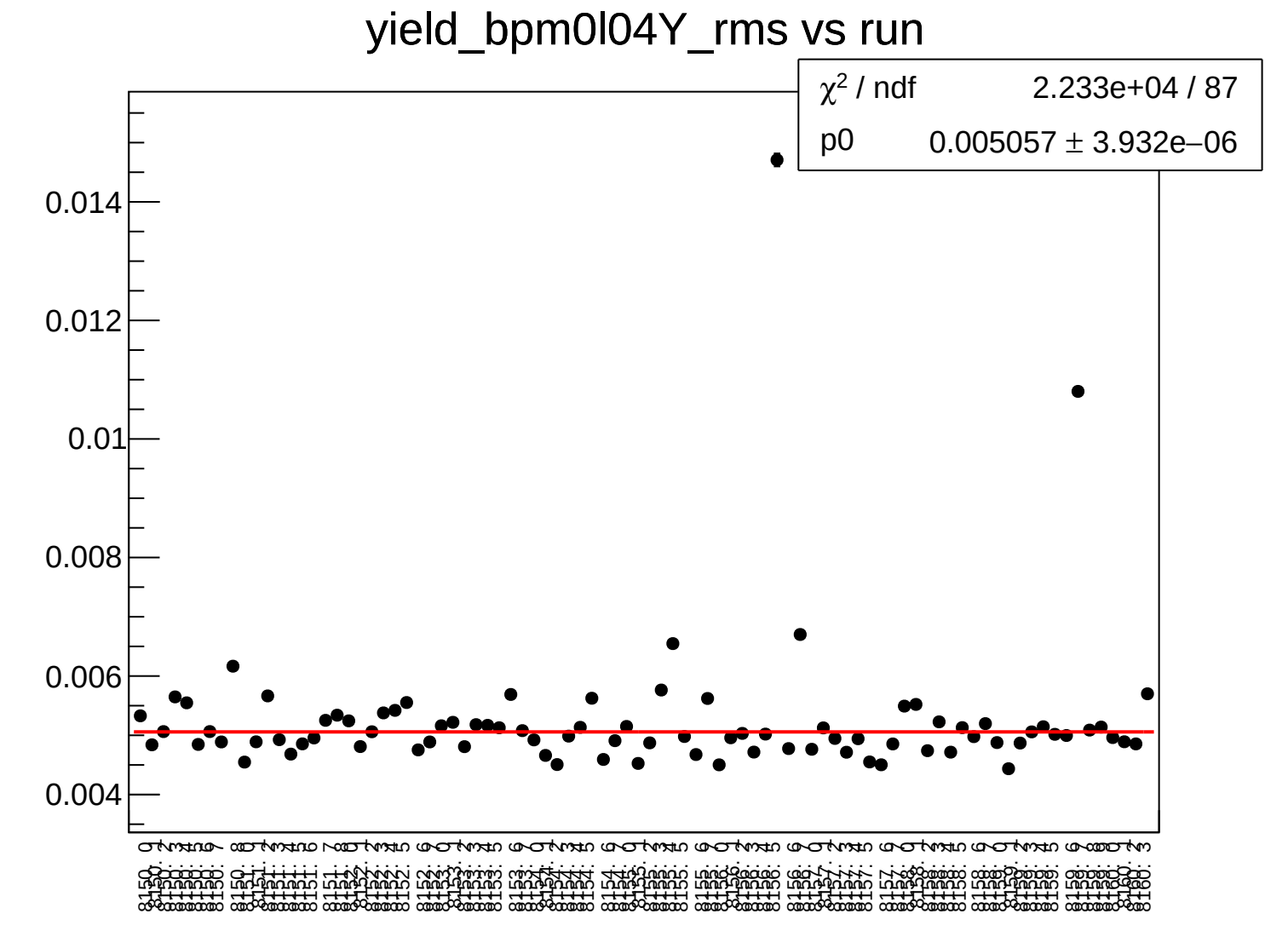

yield_bpm0l04X_mean vs run
χ² / ndf 8.632e+06 / 87
p0 −2.01 ± 2.298e−05
−1.9
−1.95
−2
−2.05
−2.1
pull
Entries 88
Mean −3761
Std Dev 0
400
200
0
−200
−400

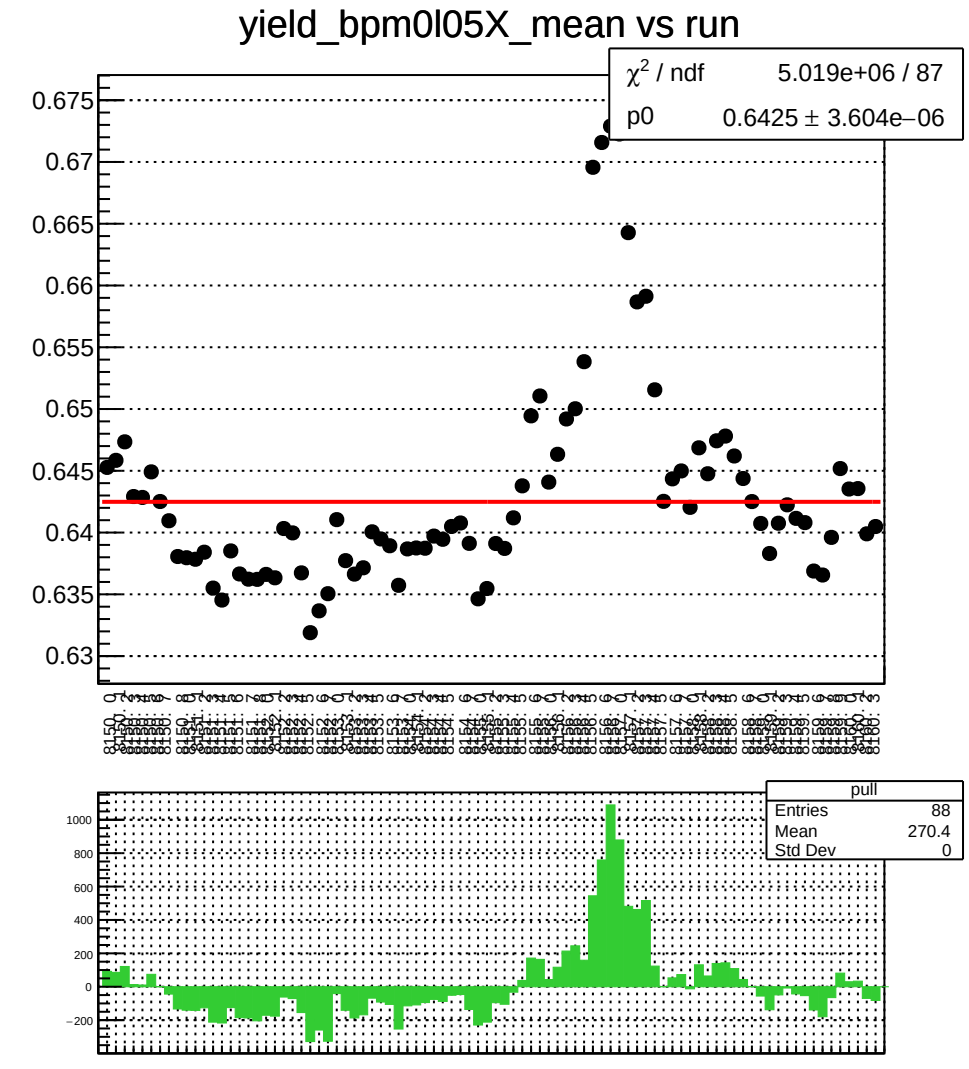

pull1D
Entries 88
Mean −2.869
Std Dev 0.9013
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

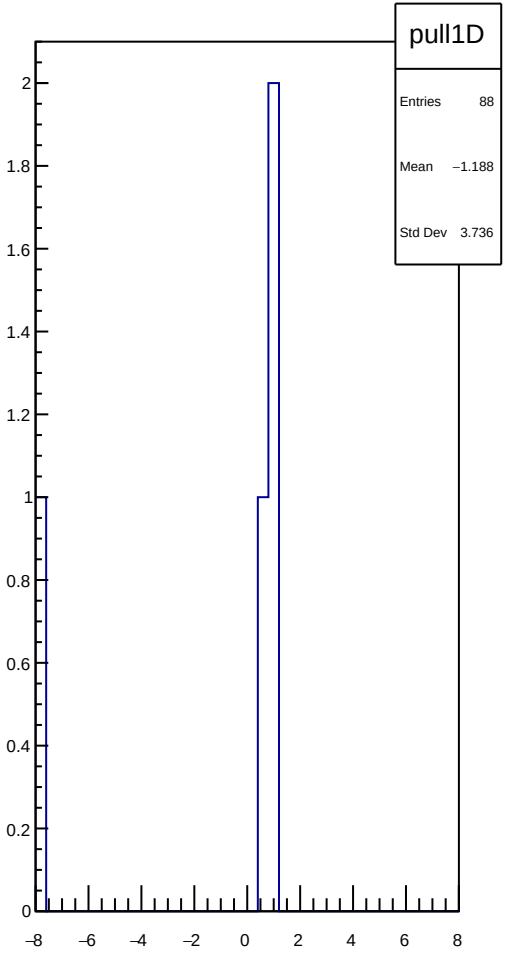

yield_bpm0l04X_rms vs run
χ² / ndf 1.103e+04 / 87
p0 0.02097 ± 1.625e−05
0.028
0.026
0.024
0.022
0.02
0.018

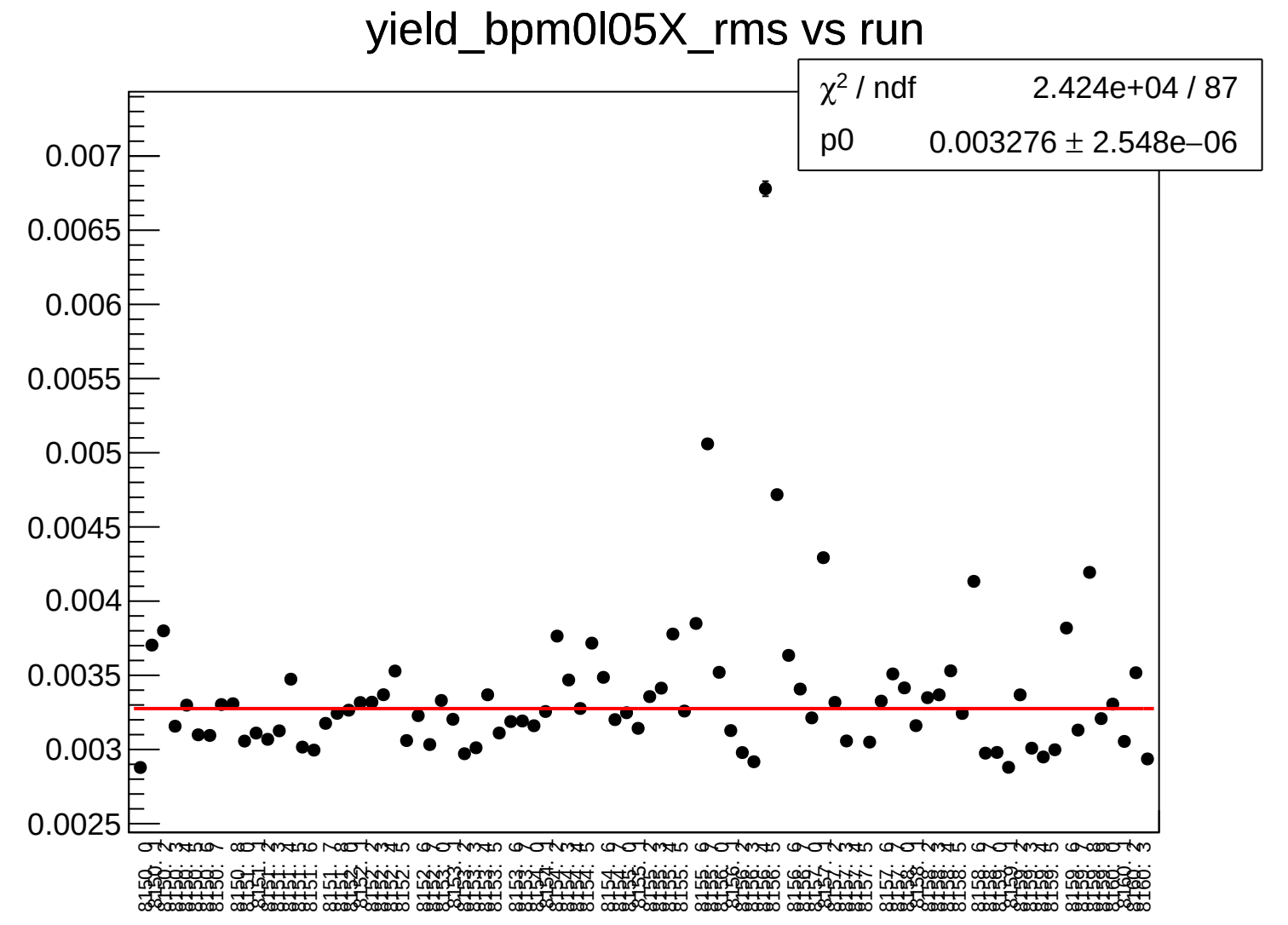

yield_bpm0l04Y_mean vs run
χ² / ndf 1.964e+06 / 87
p0 0.7771 ± 5.561e−06
0.79
0.785
0.78
0.775
0.77
0.765
0.76
0.755
pull
Entries 88
Mean 1.692
Std Dev 196.8
200
100
0
−100
−200
−300
−400

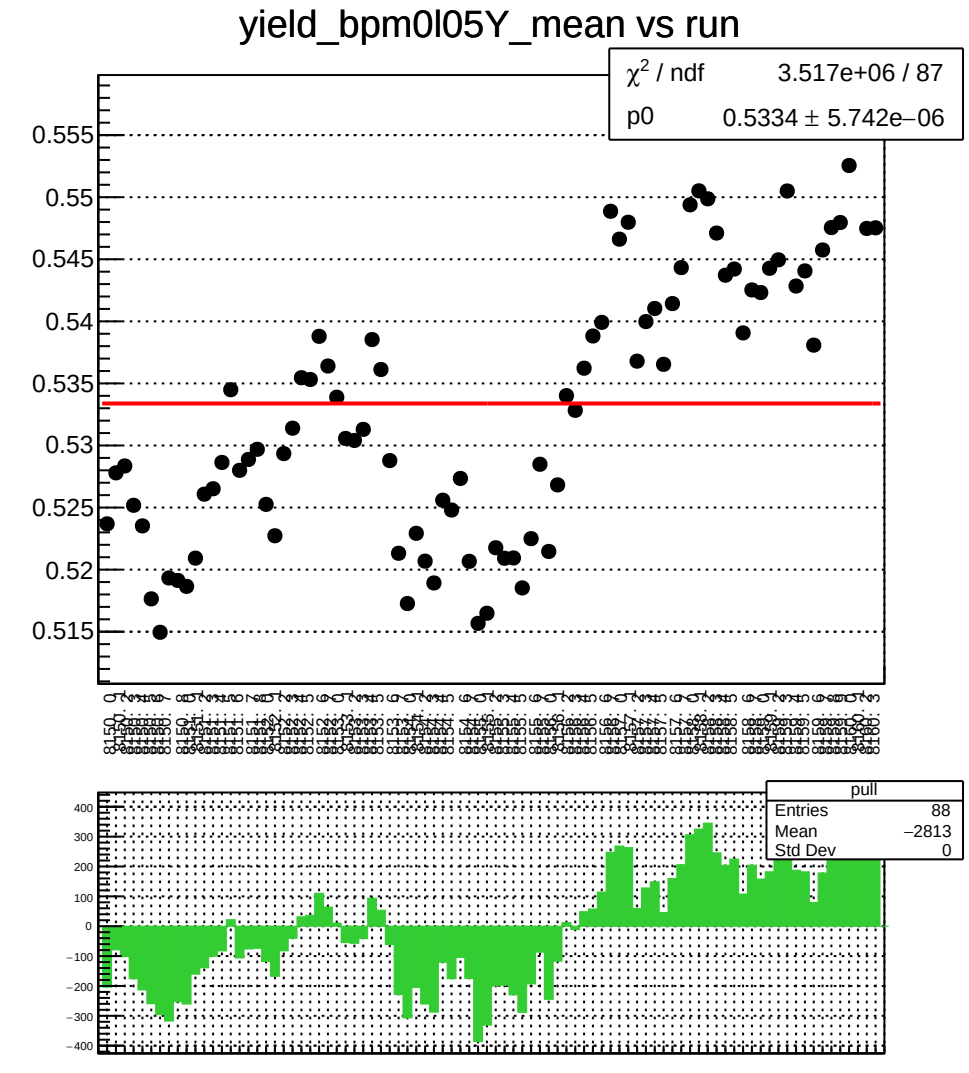

pull1D
Entries 88
Mean −2.496
Std Dev 2.961
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

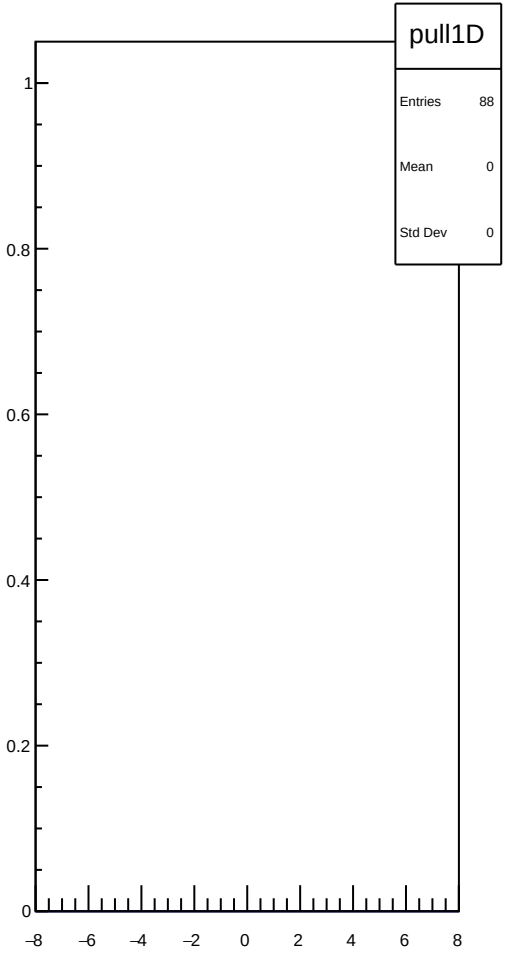

yield_bpm0l04Y_rms vs run
χ² / ndf 2.233e+04 / 87
p0 0.005057 ± 3.932e−06
0.014
0.012
0.01
0.008
0.006
0.004

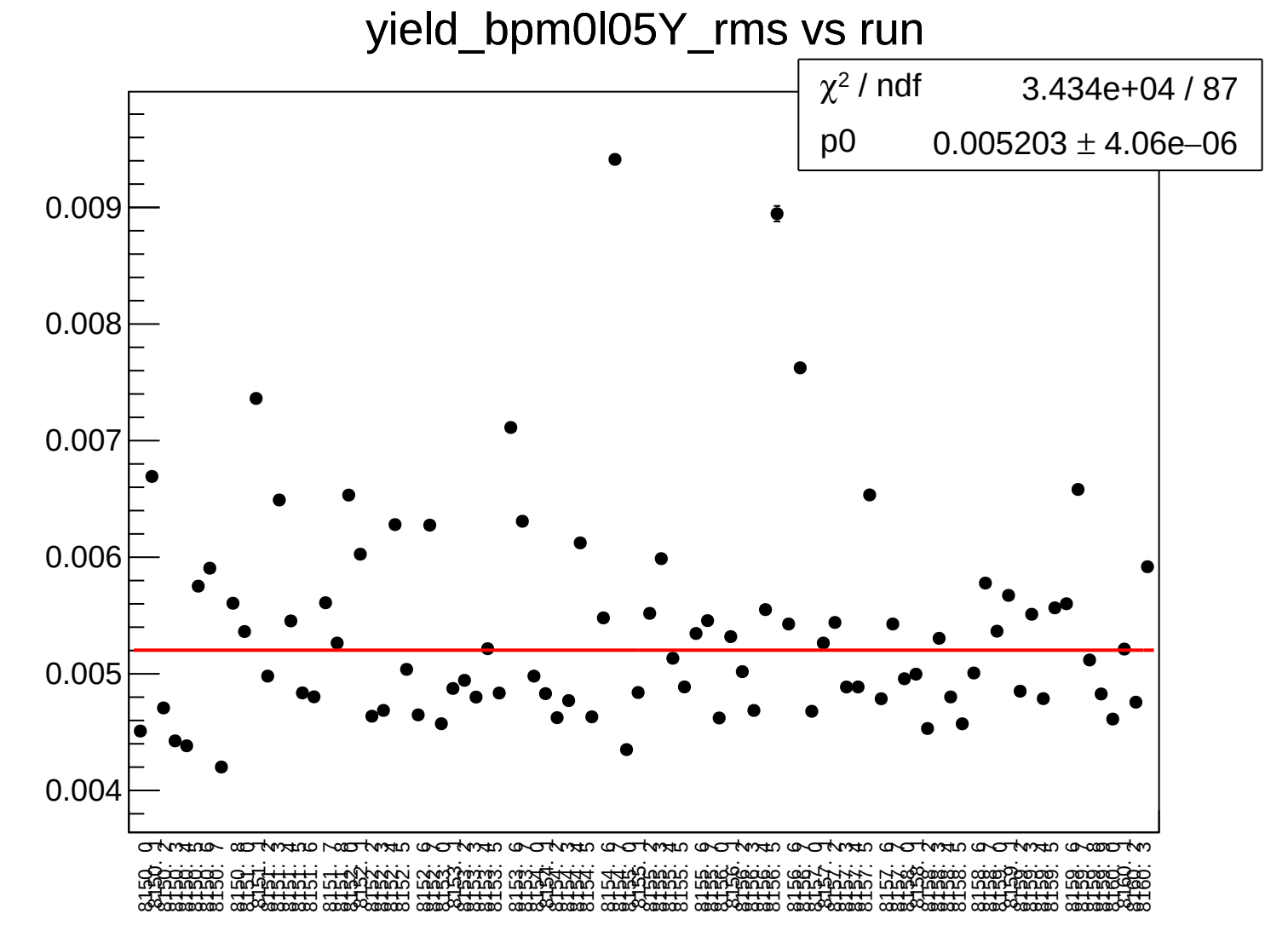

yield_bpm0l05X_mean vs run
χ² / ndf 5.019e+06 / 87
p0 0.6425 ± 3.604e−06
0.675
0.67
0.665
0.66
0.655
0.65
0.645
0.64
0.635
0.63
pull
Entries 88
Mean 270.4
Std Dev 0
1000
800
600
400
200
0
−200

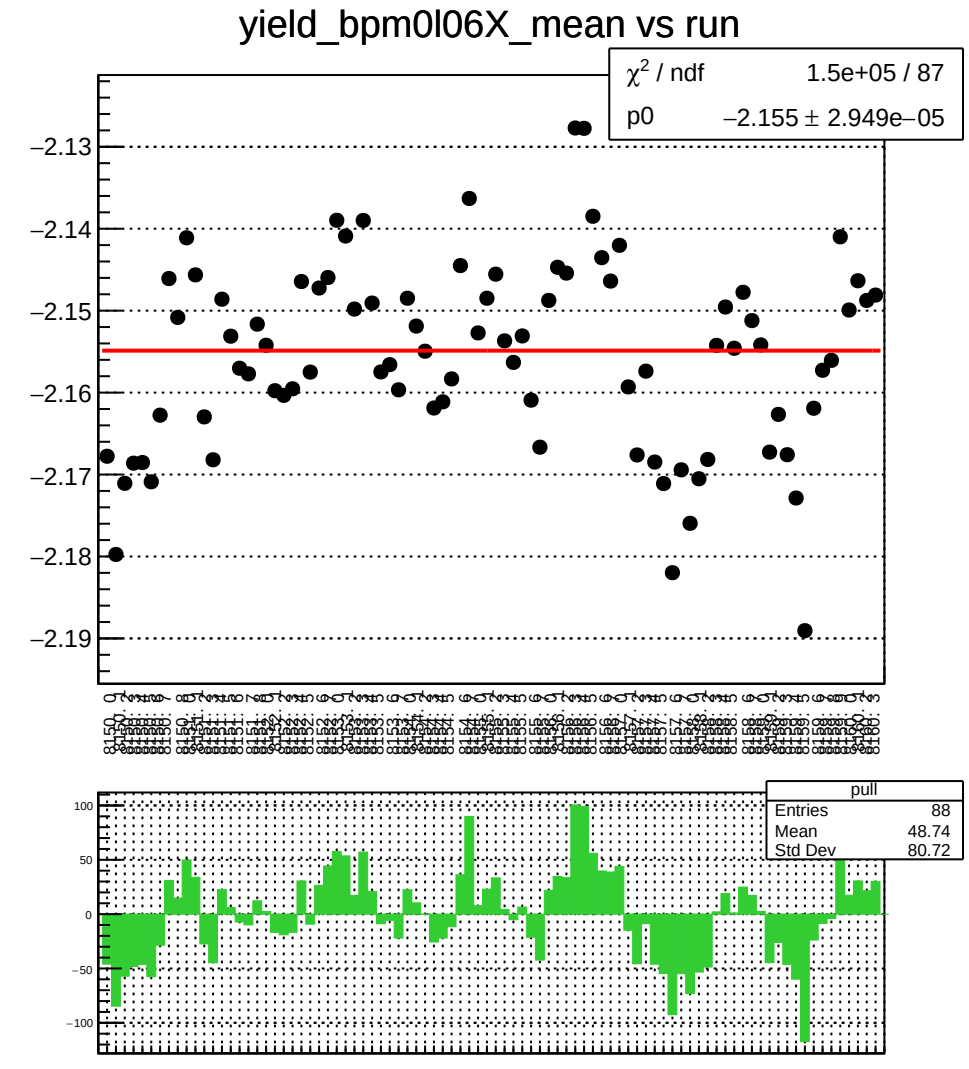

pull1D
Entries 88
Mean −1.188
Std Dev 3.736
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

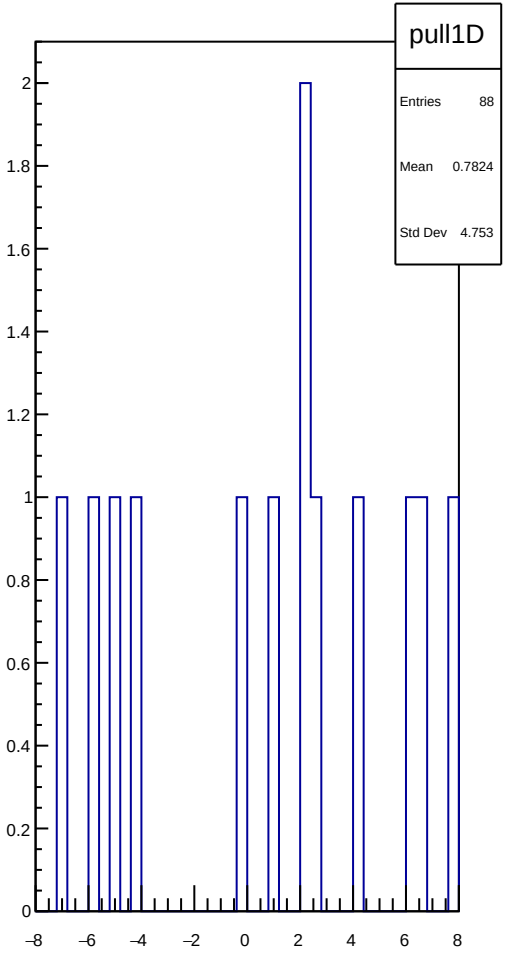

yield_bpm0l05X_rms vs run
χ² / ndf 2.424e+04 / 87
p0 0.003276 ± 2.548e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

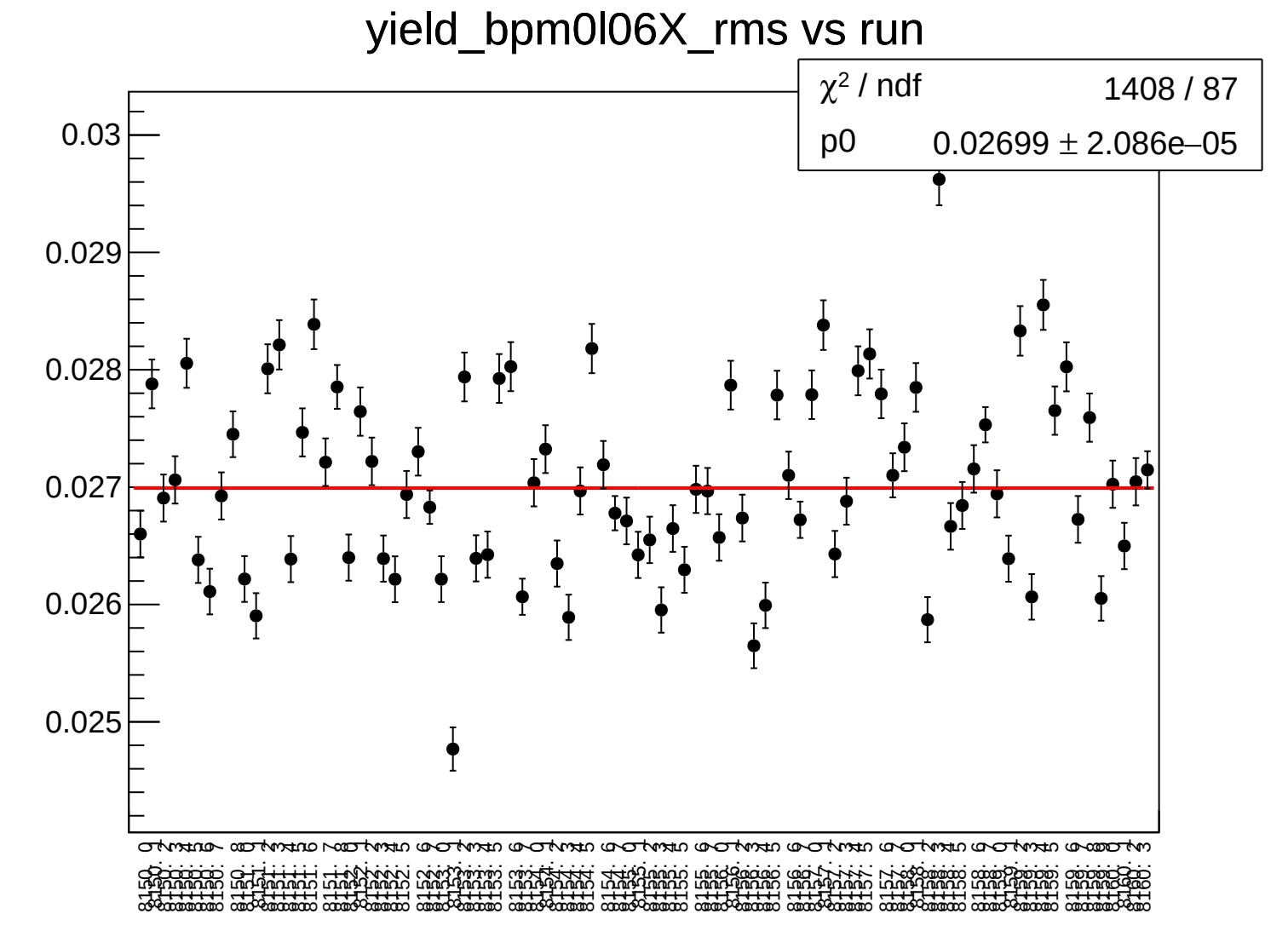

yield_bpm0l05Y_mean vs run
χ² / ndf 3.517e+06 / 87
p0 0.5334 ± 5.742e−06
0.555
0.55
0.545
0.54
0.535
0.53
0.525
0.52
0.515
pull
Entries 88
Mean −2813
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

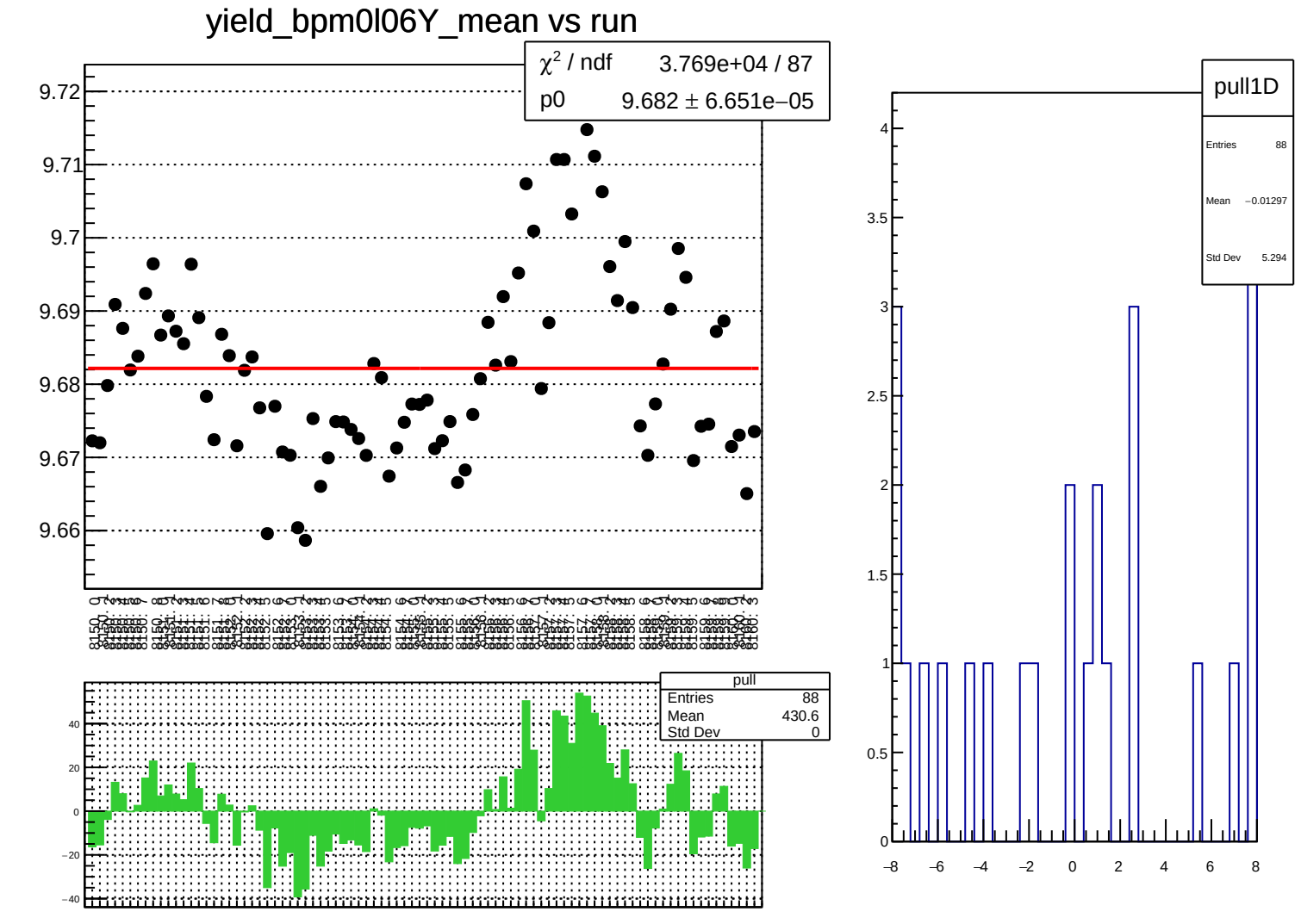

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

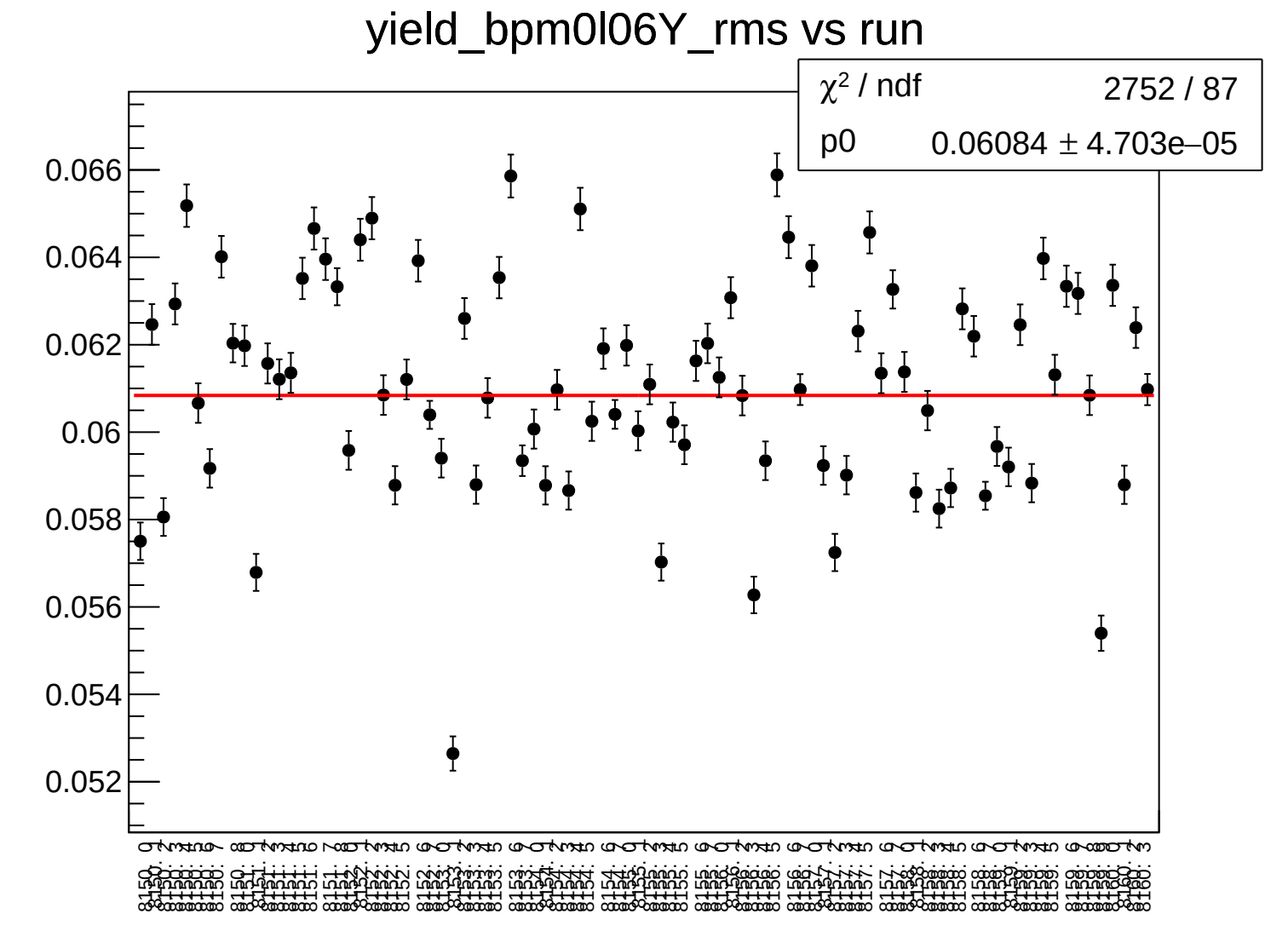

yield_bpm0l05Y_rms vs run
χ² / ndf 3.434e+04 / 87
p0 0.005203 ± 4.06e−06
0.009
0.008
0.007
0.006
0.005
0.004

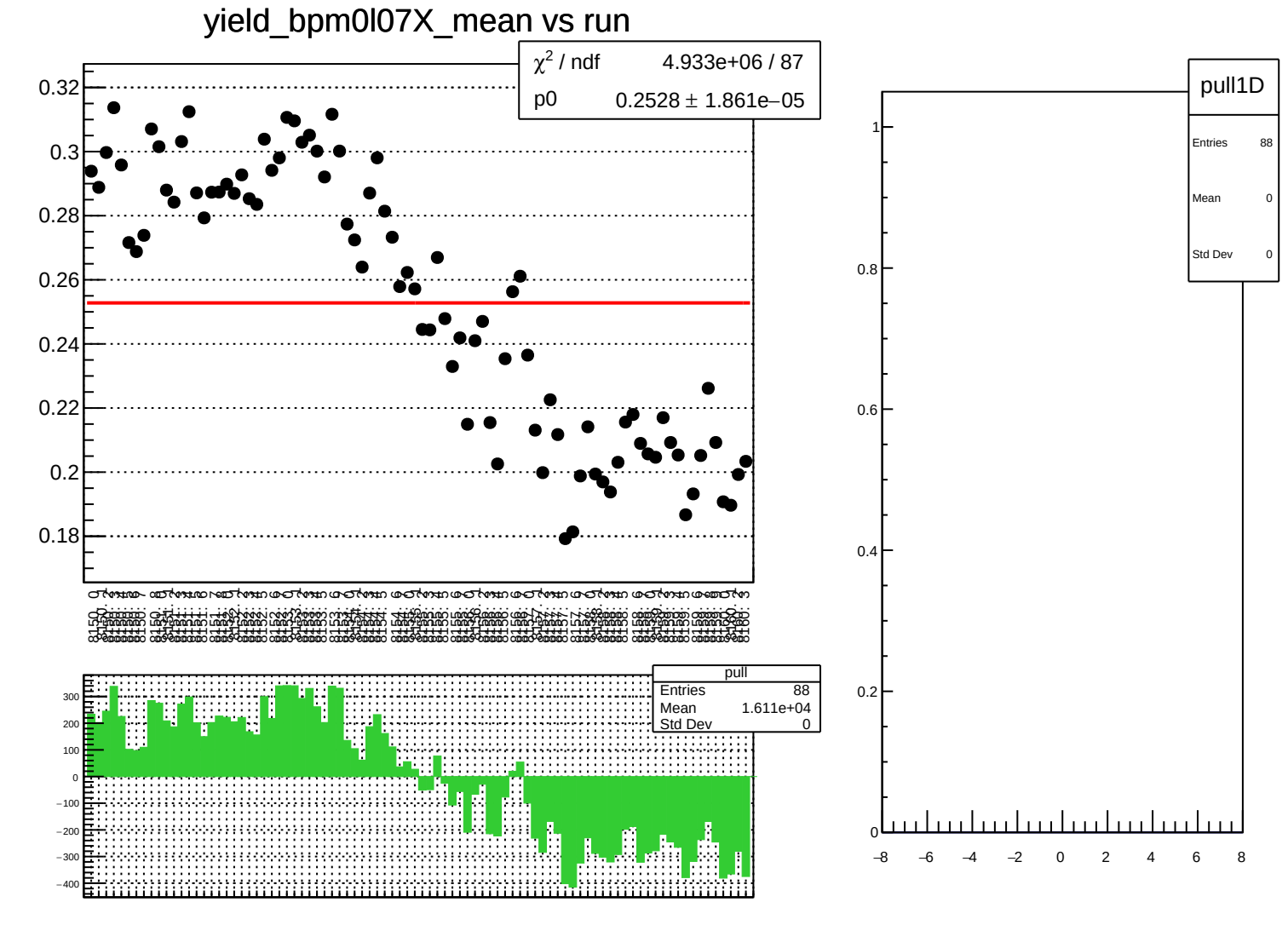

yield_bpm0l06X_mean vs run
χ² / ndf 1.5e+05 / 87
p0 −2.155 ± 2.949e−05
−2.13
−2.14
−2.15
−2.16
−2.17
−2.18
−2.19
pull
Entries 88
Mean 48.74
Std Dev 80.72
100
50
0
−50
−100

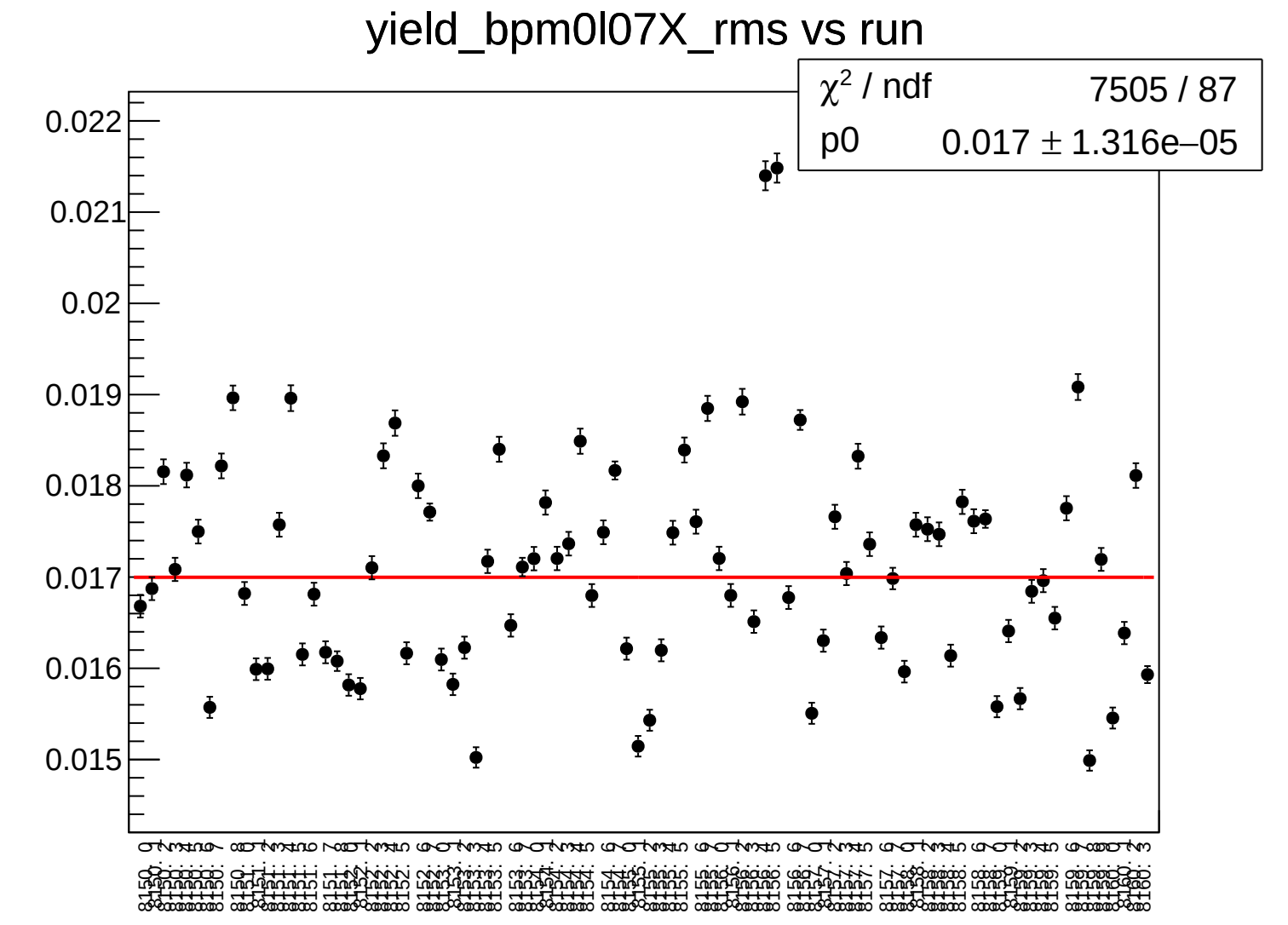

pull1D
Entries 88
Mean 0.7824
Std Dev 4.753
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

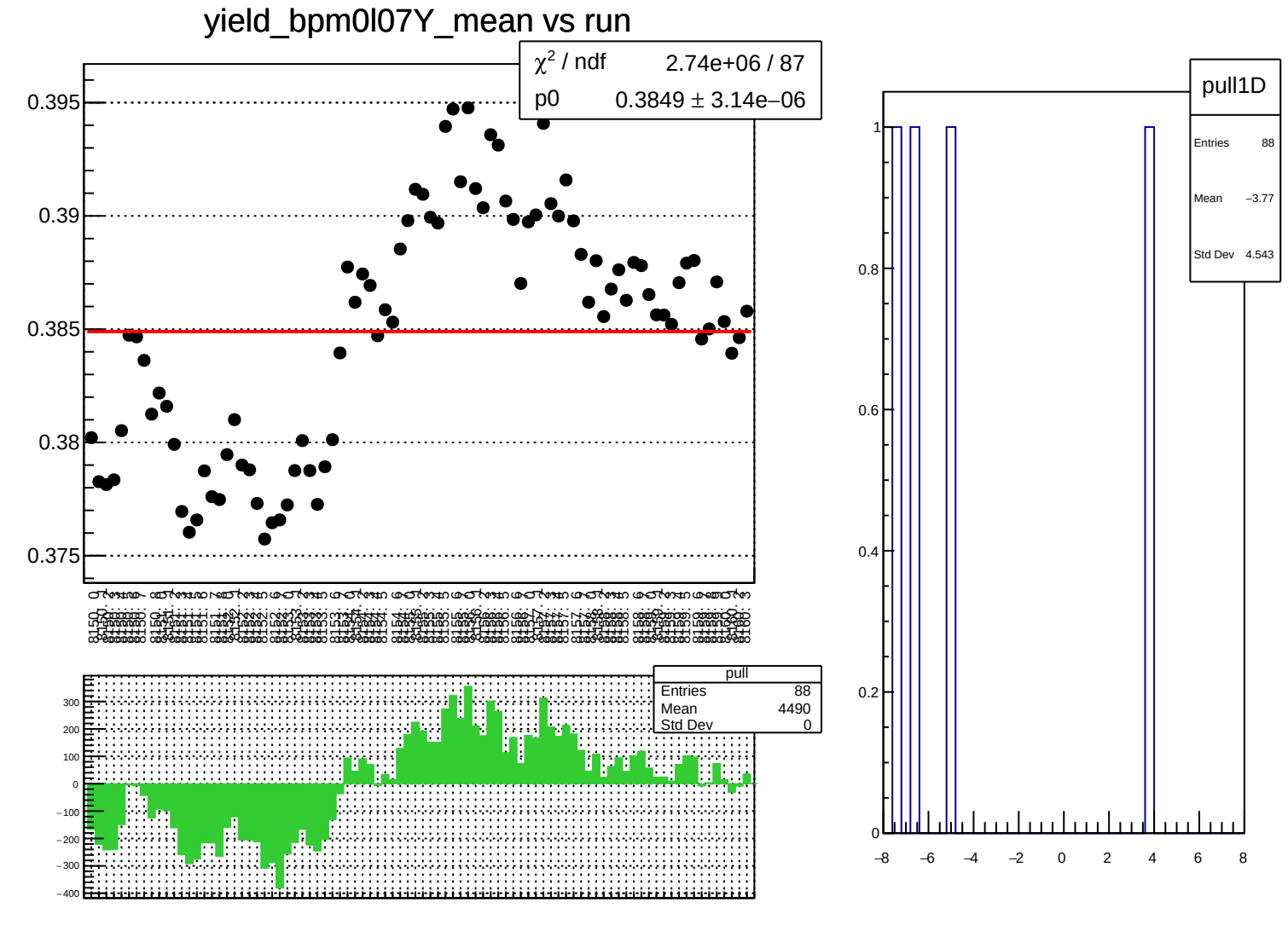

yield_bpm0l06X_rms vs run
χ² / ndf 1408 / 87
p0 0.02699 ± 2.086e–05
0.03
0.029
0.028
0.027
0.026
0.025

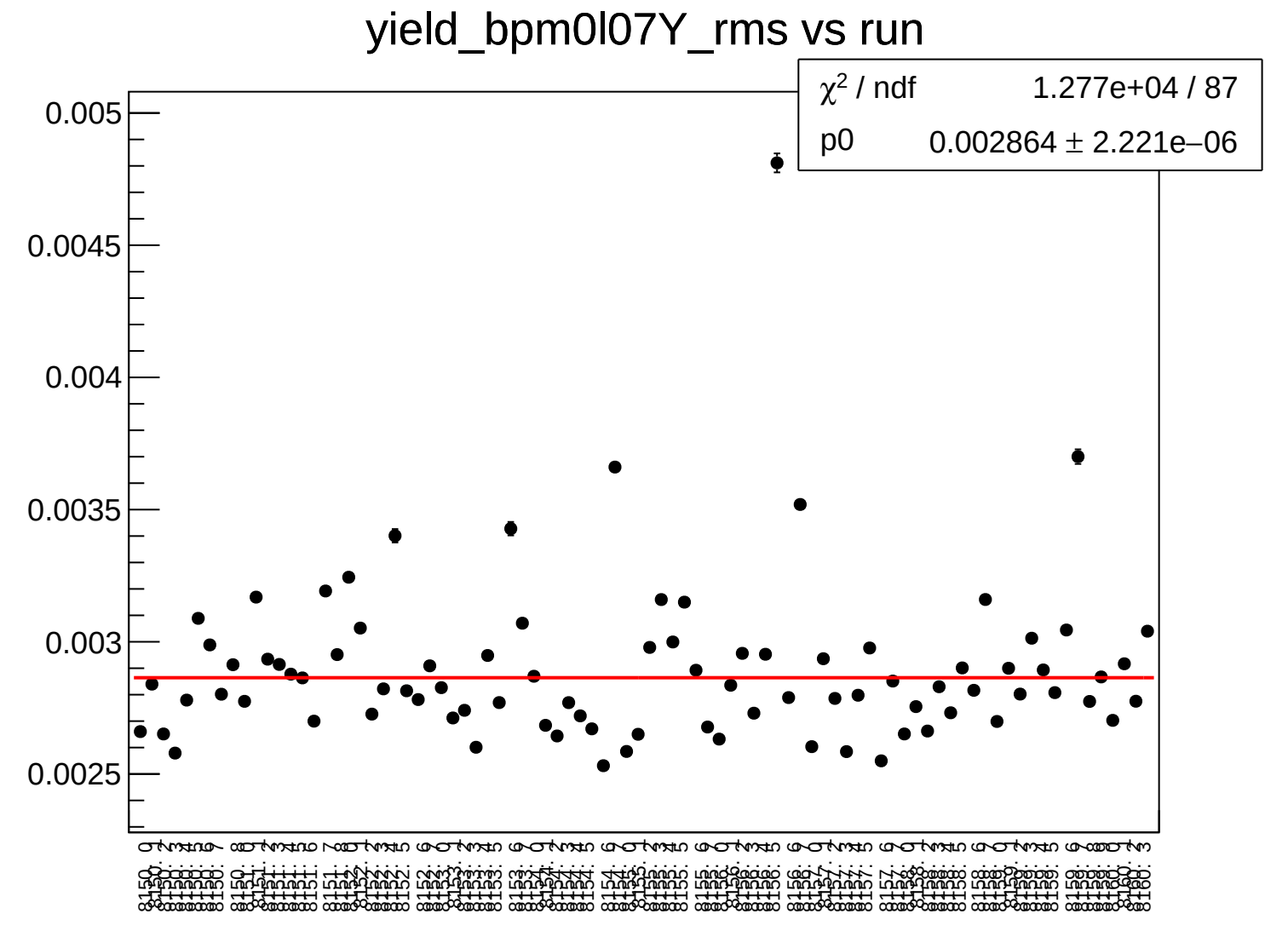

yield_bpm0l06Y_mean vs run
χ^2 / ndf 3.769e+04 / 87
p0 9.682 ± 6.651e−05
9.72
9.71
9.7
9.69
9.68
9.67
9.66
pull
Entries 88
Mean 430.6
Std Dev 0
40
20
0
−20
−40
pull1D
Entries 88
Mean −0.01297
Std Dev 5.294
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

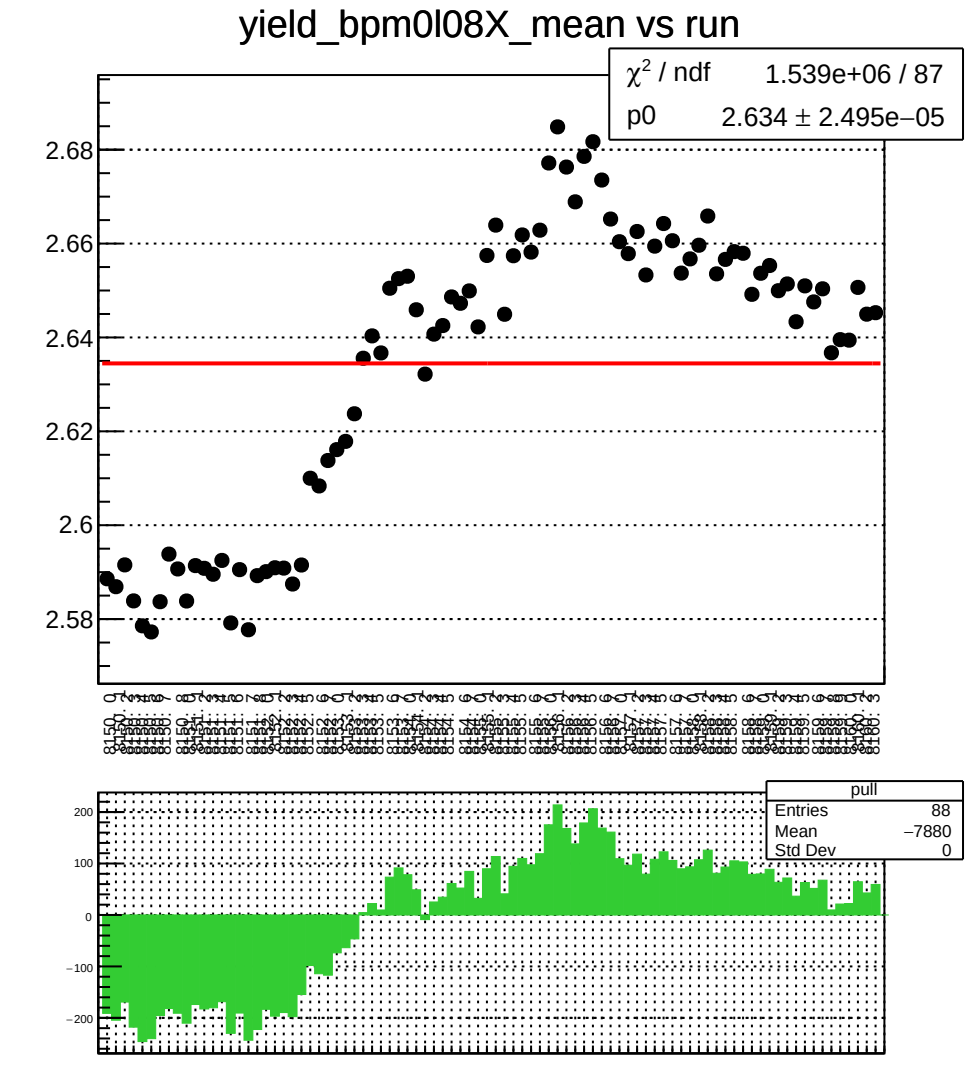

yield_bpm0l06Y_rms vs run
χ² / ndf 2752 / 87
p0 0.06084 ± 4.703e–05
0.066
0.064
0.062
0.06
0.058
0.056
0.054
0.052

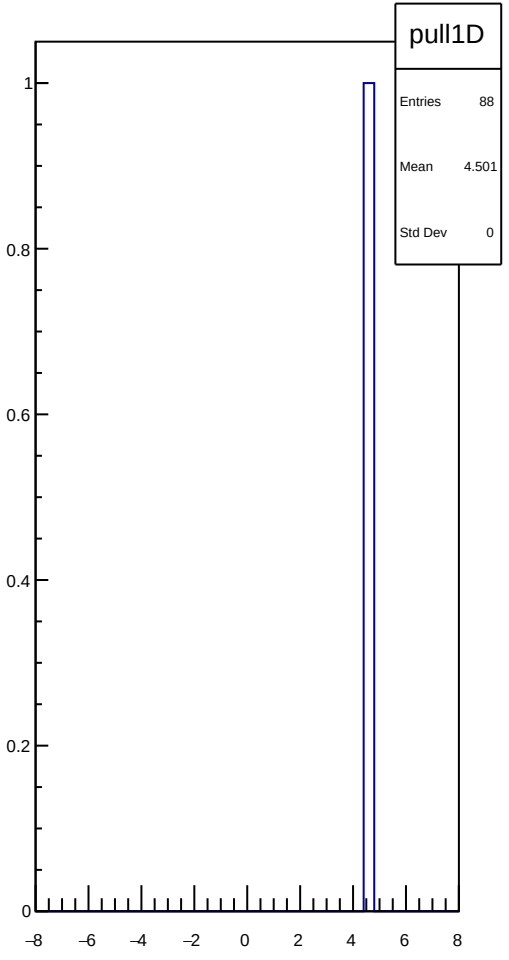

yield_bpm0l07X_mean vs run
χ² / ndf 4.933e+06 / 87
p0 0.2528 ± 1.861e−05
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
pull
Entries 88
Mean 1.611e+04
Std Dev 0
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

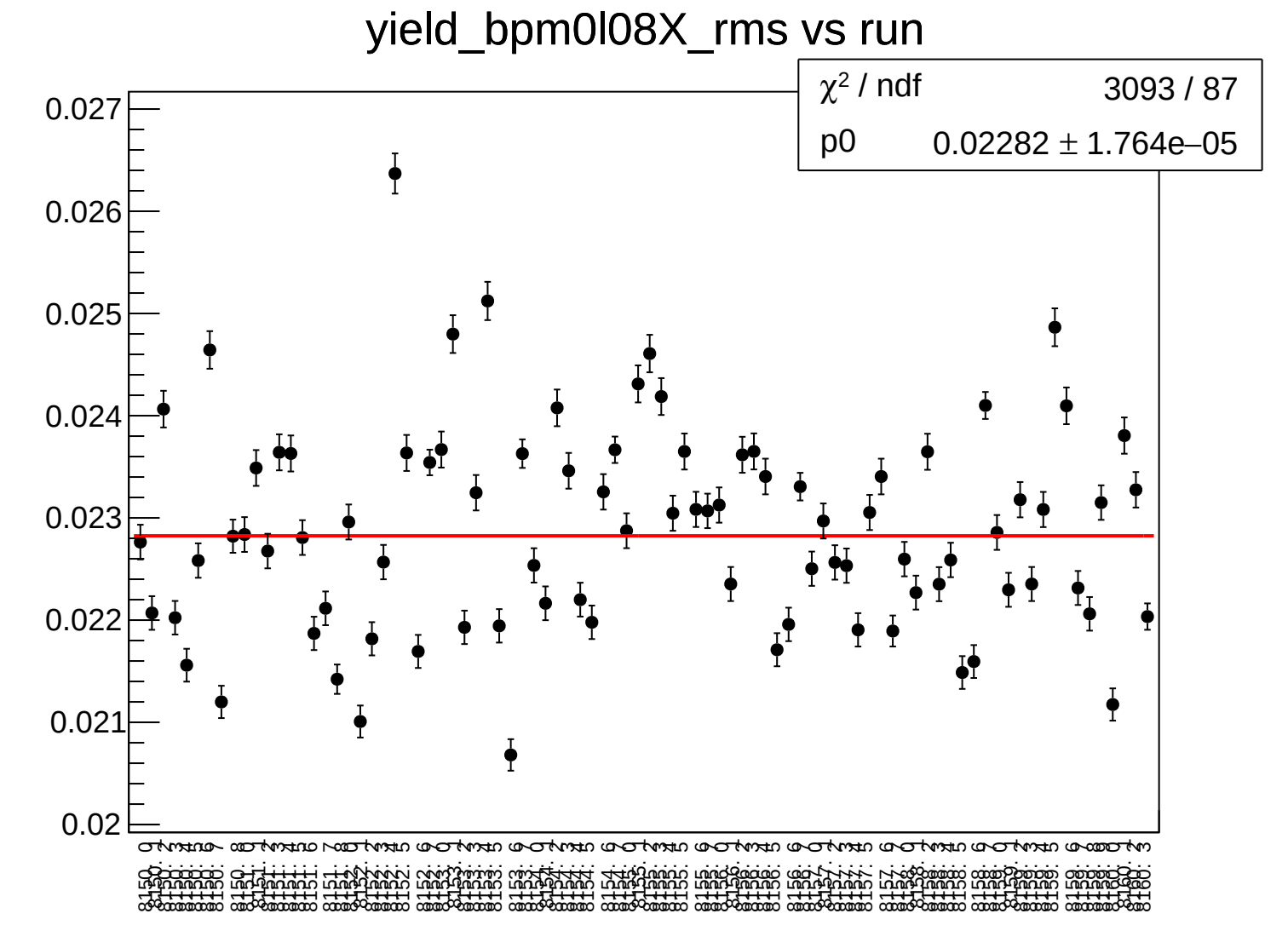

yield_bpm0l07X_rms vs run
χ² / ndf 7505 / 87
p0 0.017 ± 1.316e–05
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015

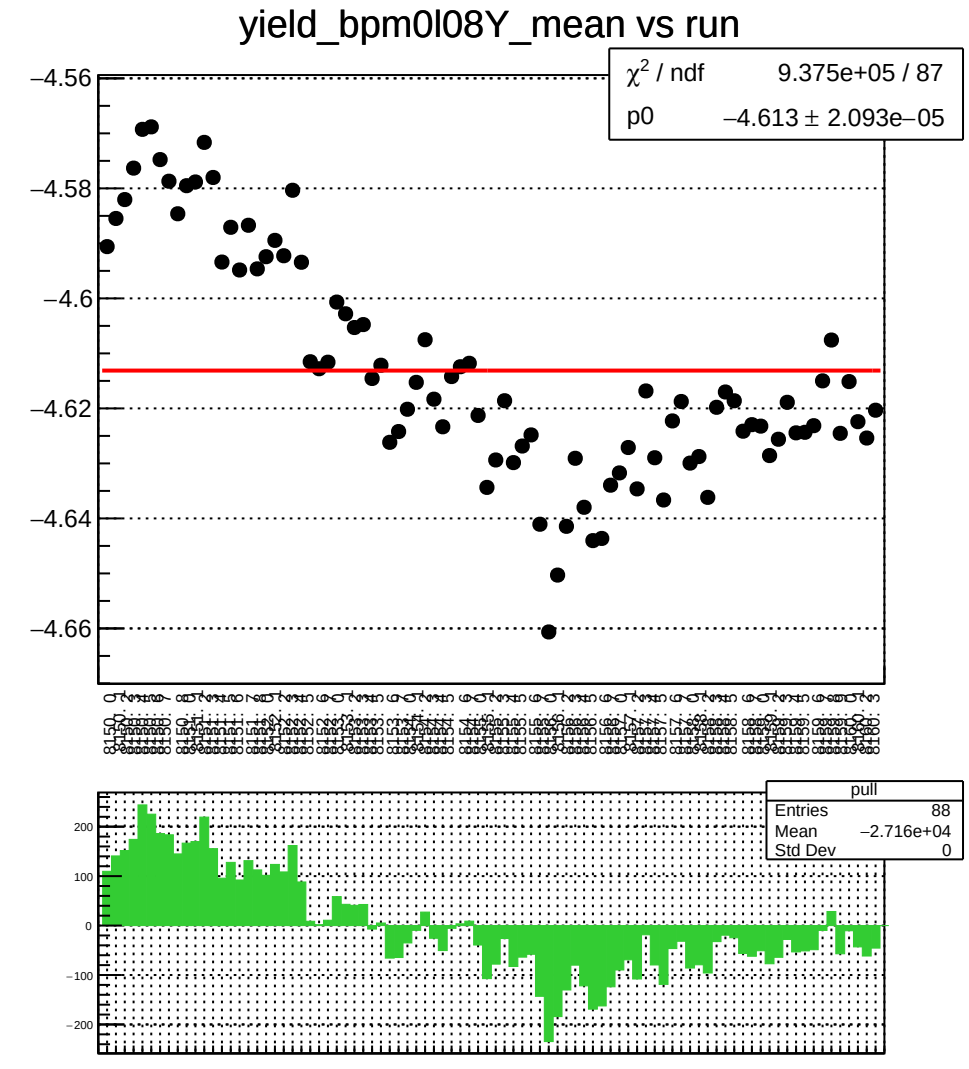

yield_bpm0l07Y_mean vs run
χ² / ndf 2.74e+06 / 87
p0 0.3849 ± 3.14e−06
0.395
0.39
0.385
0.38
0.375
pull
Entries 88
Mean 4490
Std Dev 0
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 88
Mean −3.77
Std Dev 4.543
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

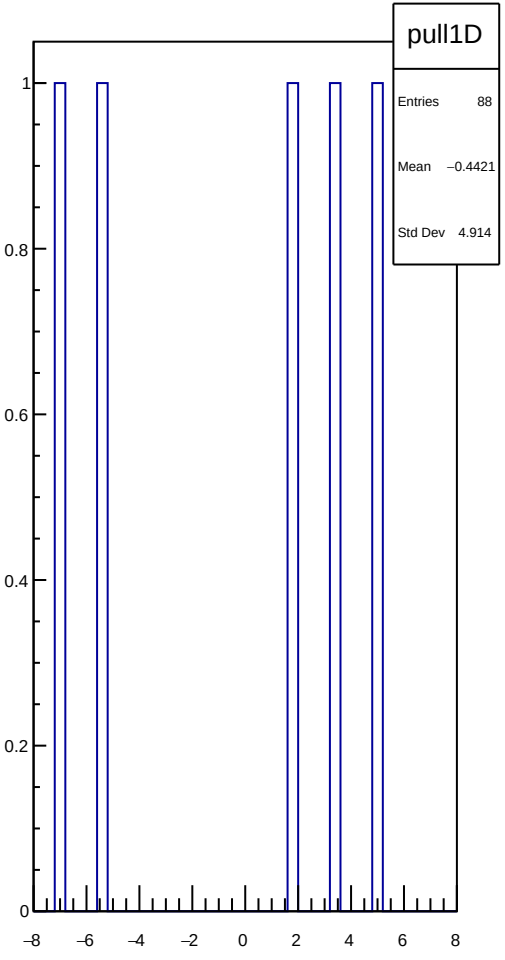

yield_bpm0l07Y_rms vs run
χ² / ndf 1.277e+04 / 87
p0 0.002864 ± 2.221e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025

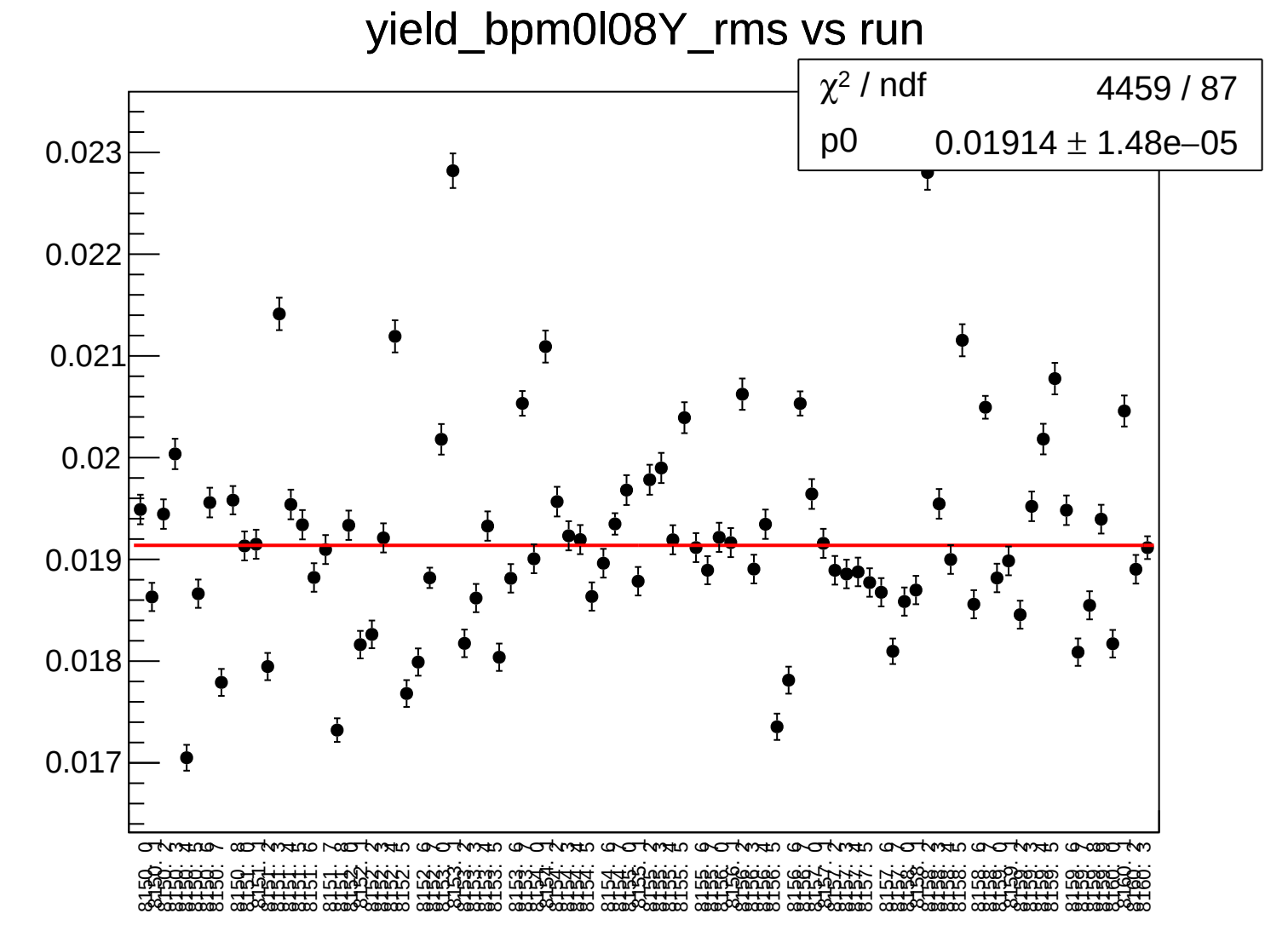

yield_bpm0l08X_mean vs run
χ² / ndf 1.539e+06 / 87
p0 2.634 ± 2.495e−05
2.68
2.66
2.64
2.62
2.6
2.58
pull
Entries 88
Mean −7880
Std Dev 0
200
100
0
−100
−200

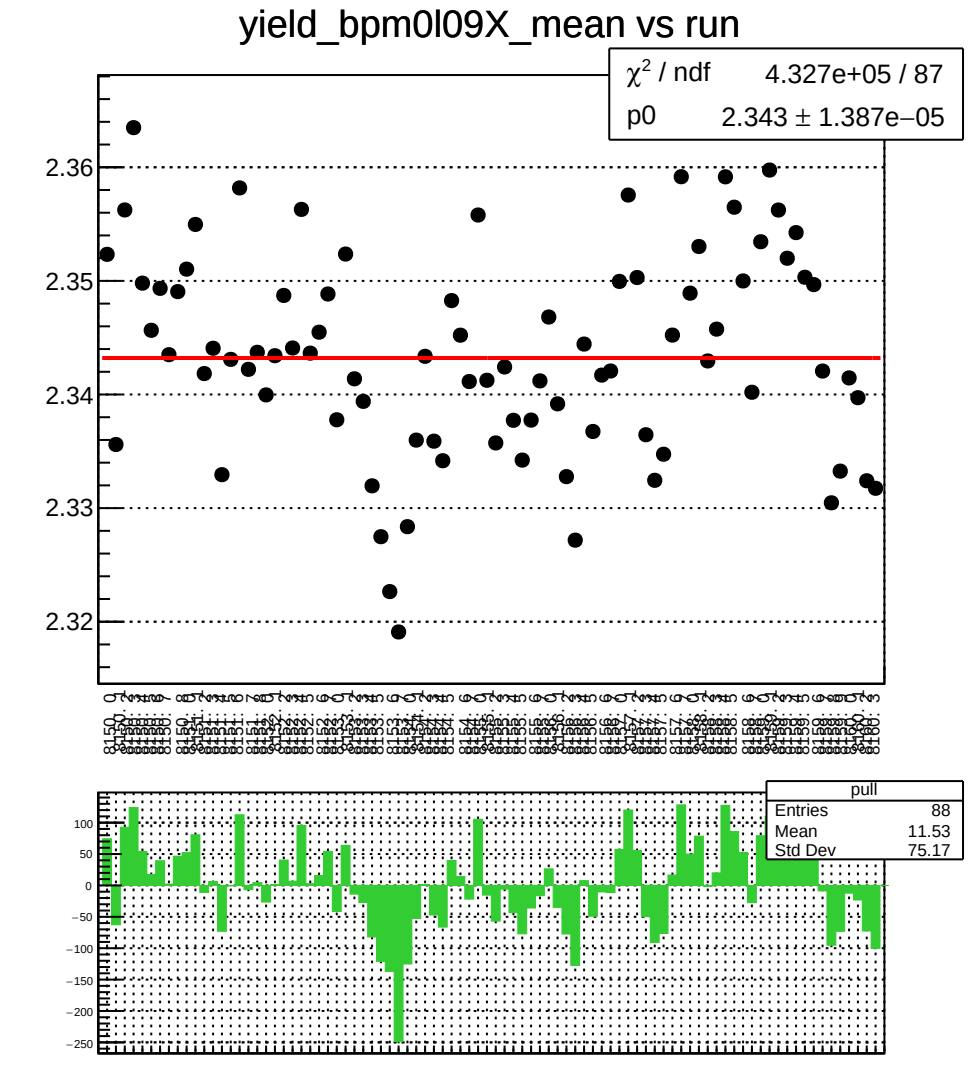

pull1D
Entries 88
Mean 4.501
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

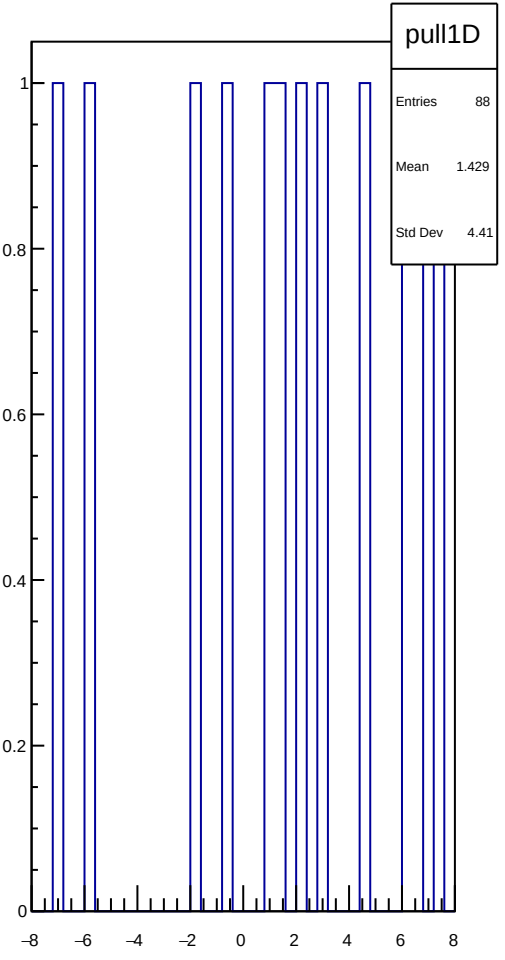

yield_bpm0l08X_rms vs run
χ² / ndf 3093 / 87
p0 0.02282 ± 1.764e−05
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02

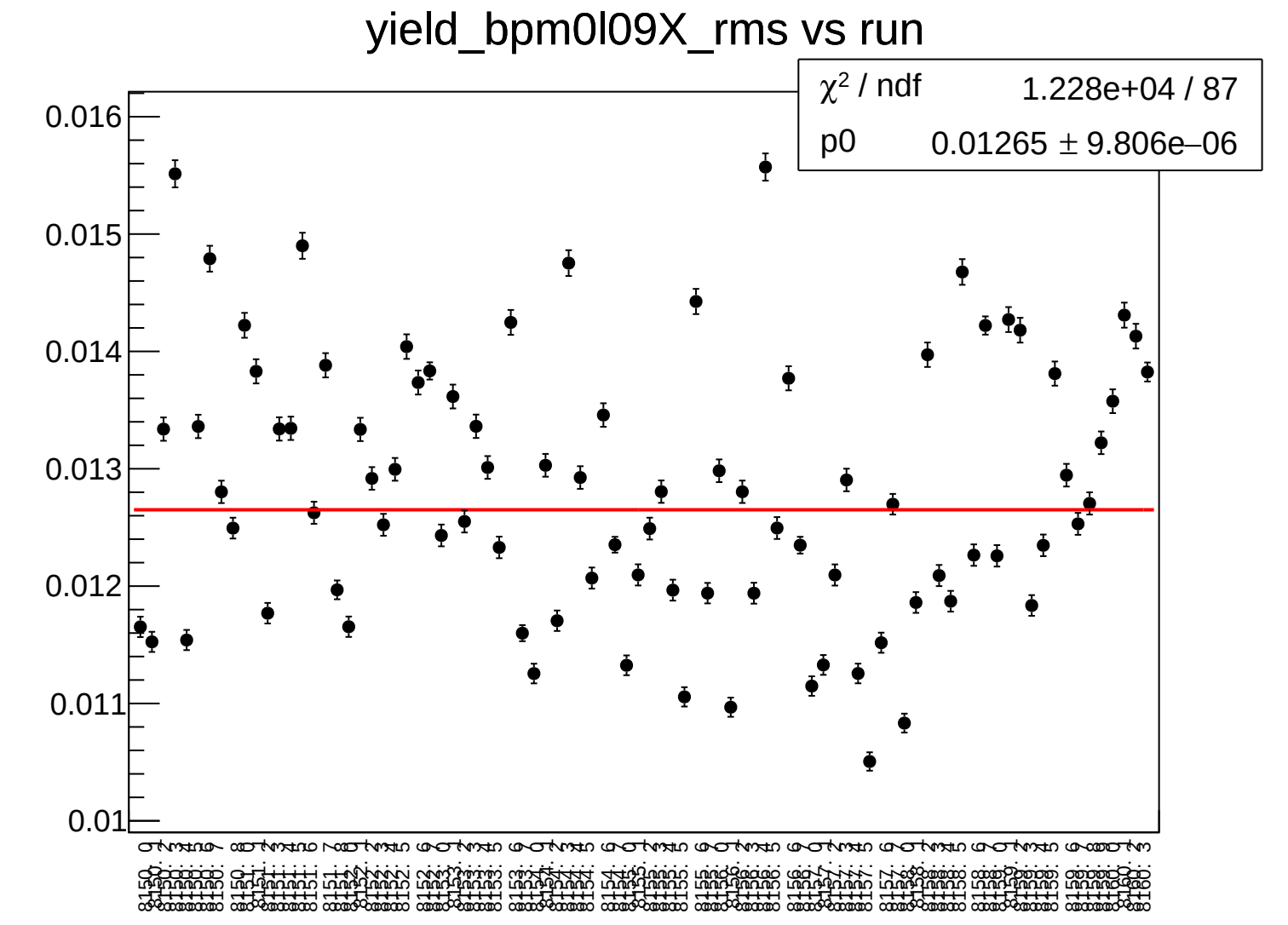

yield_bpm0l08Y_mean vs run
χ² / ndf 9.375e+05 / 87
p0 −4.613 ± 2.093e−05
−4.56
−4.58
−4.6
−4.62
−4.64
−4.66
pull
Entries 88
Mean −2.716e+04
Std Dev 0
200
100
0
−100
−200

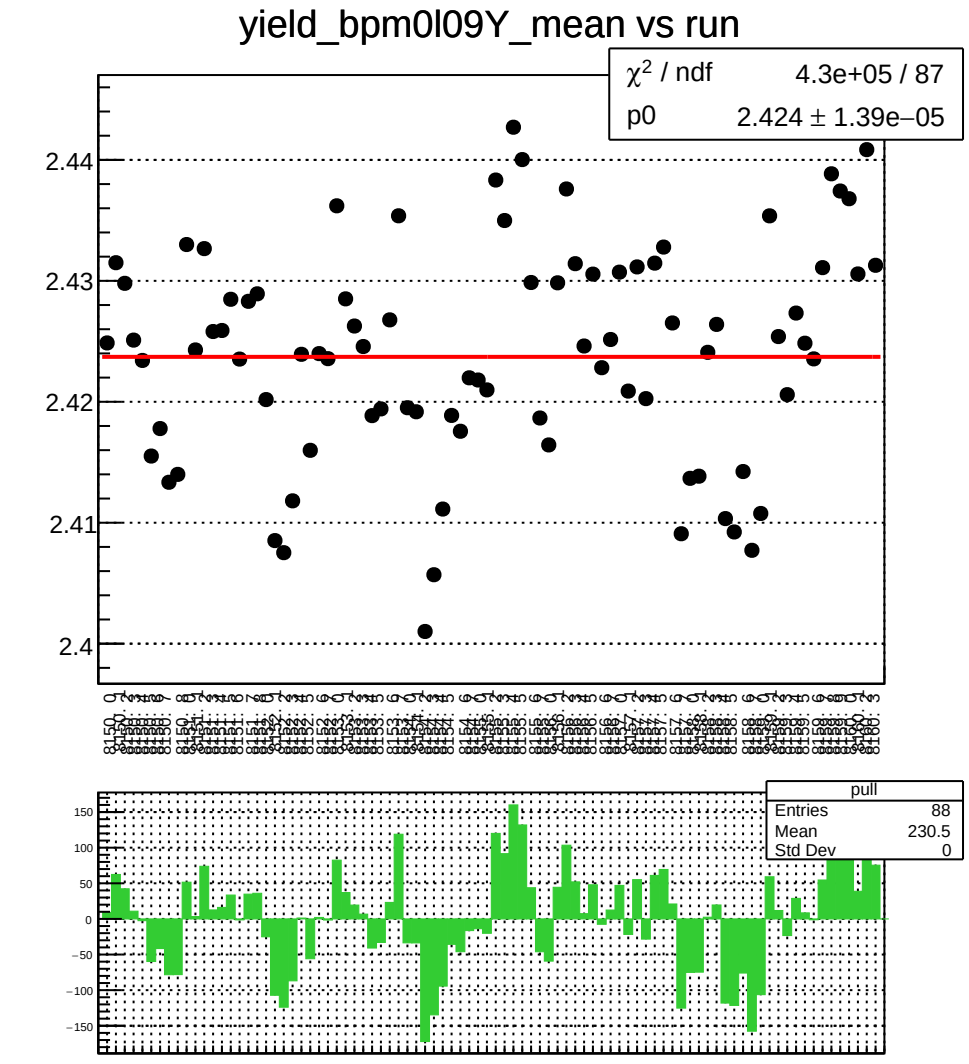

pull1D
Entries 88
Mean −0.4421
Std Dev 4.914
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

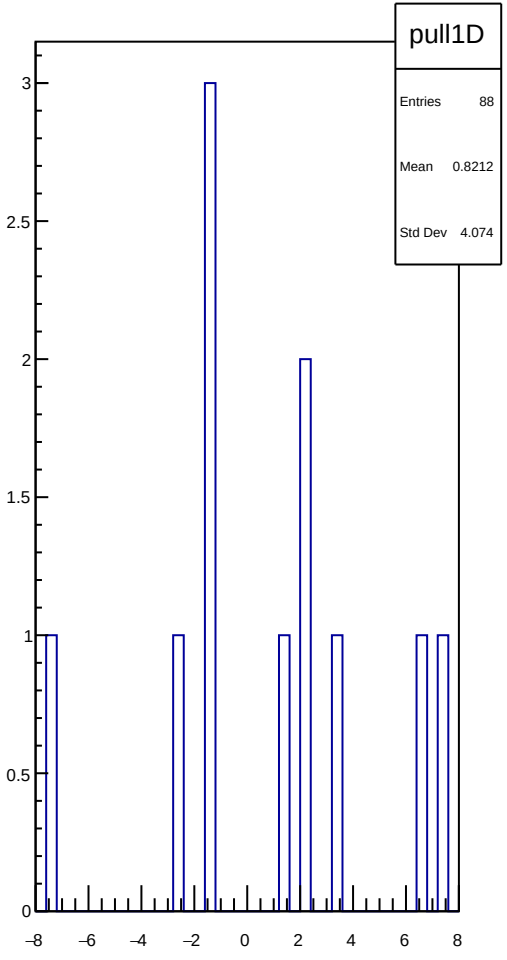

yield_bpm0l08Y_rms vs run
χ² / ndf 4459 / 87
p0 0.01914 ± 1.48e−05
0.023
0.022
0.021
0.02
0.019
0.018
0.017

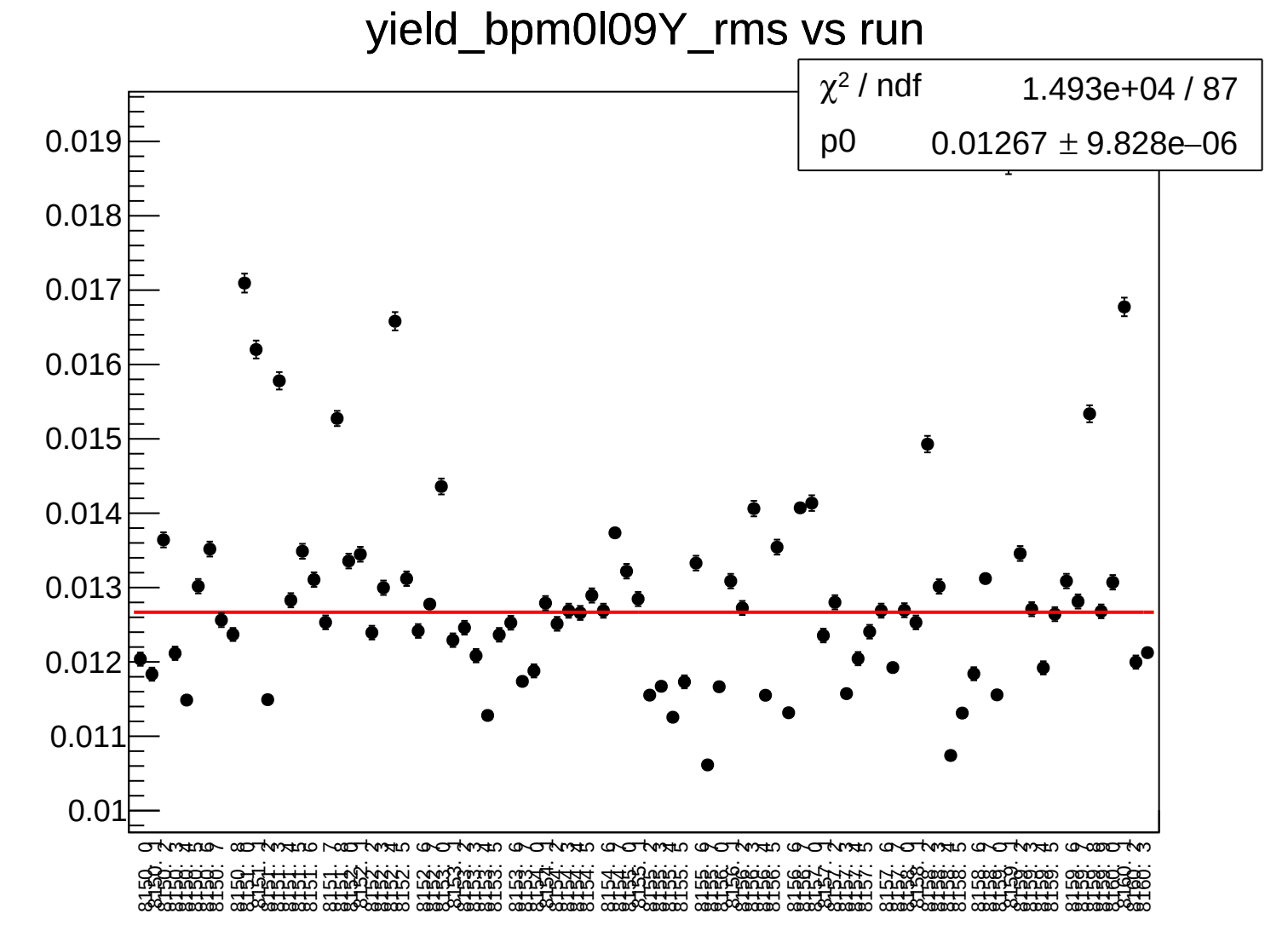

yield_bpm0l09X_mean vs run
χ² / ndf 4.327e+05 / 87
p0 2.343 ± 1.387e−05
2.36
2.35
2.34
2.33
2.32
pull
Entries 88
Mean 11.53
Std Dev 75.17
100
50
0
−50
−100
−150
−200
−250

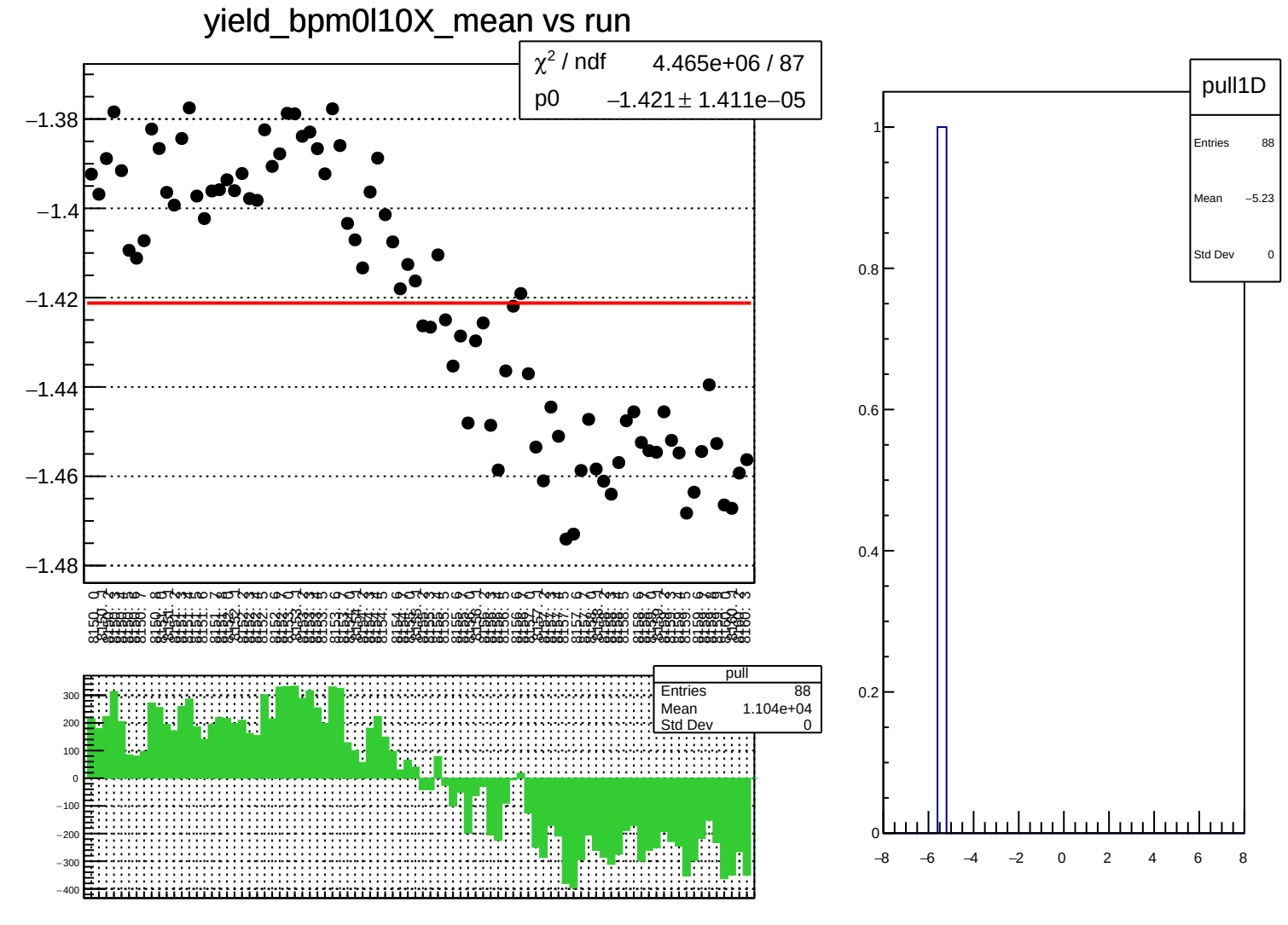

pull1D
Entries 88
Mean 1.429
Std Dev 4.41
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

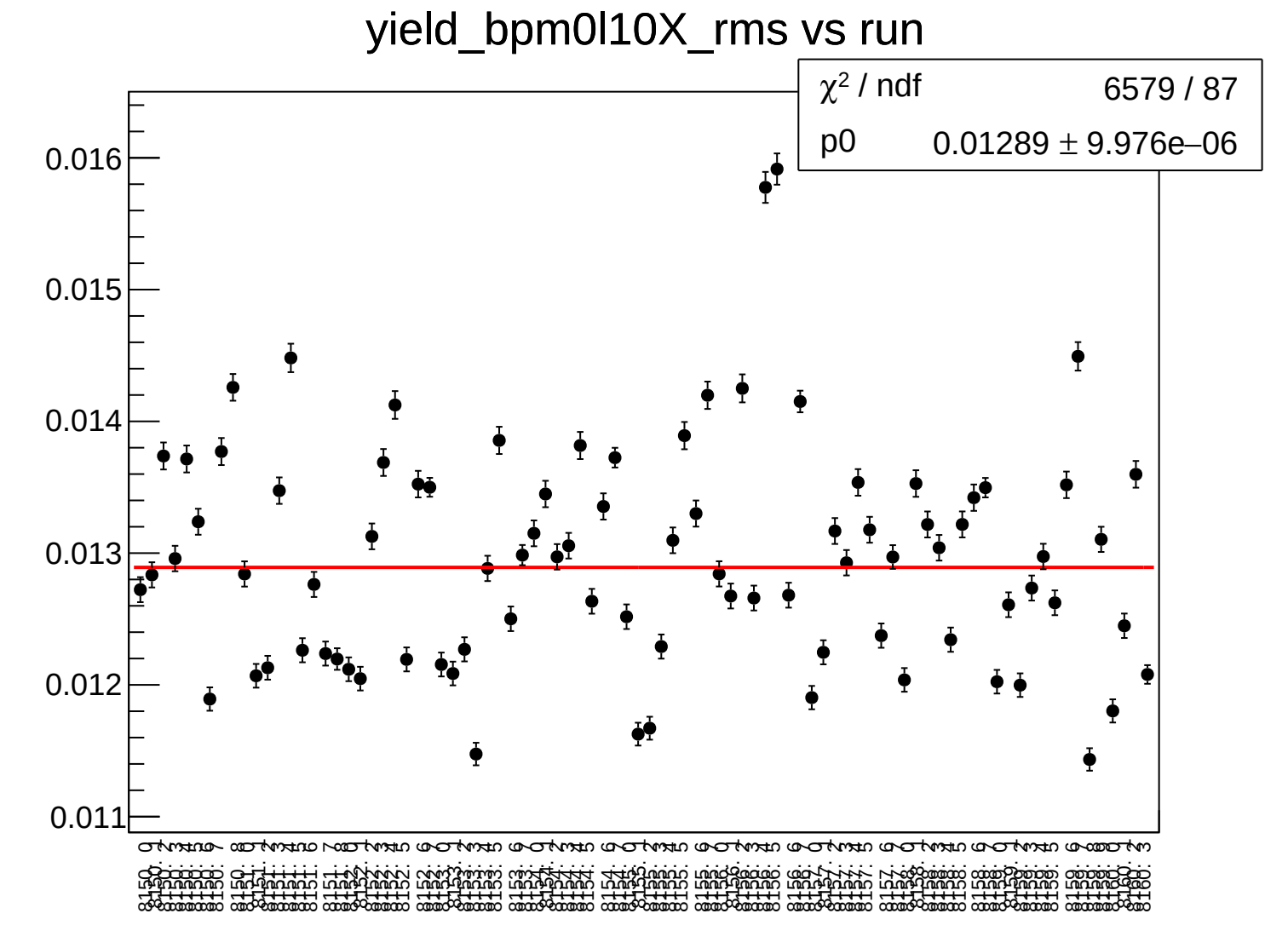

yield_bpm0l09X_rms vs run
χ² / ndf 1.228e+04 / 87
p0 0.01265 ± 9.806e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01

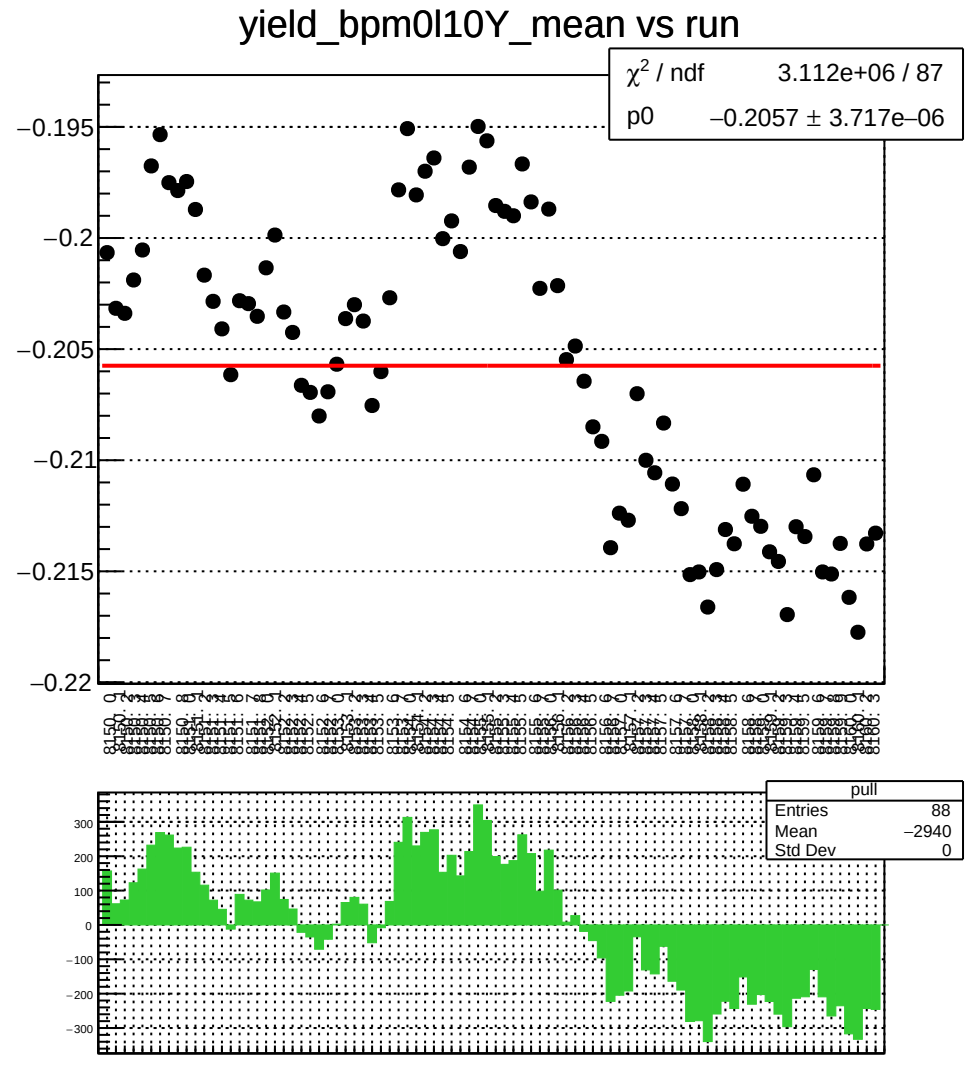

yield_bpm0l09Y_mean vs run
χ² / ndf 4.3e+05 / 87
p0 2.424 ± 1.39e−05
2.44
2.43
2.42
2.41
2.4
pull
Entries 88
Mean 230.5
Std Dev 0
150
100
50
0
−50
−100
−150

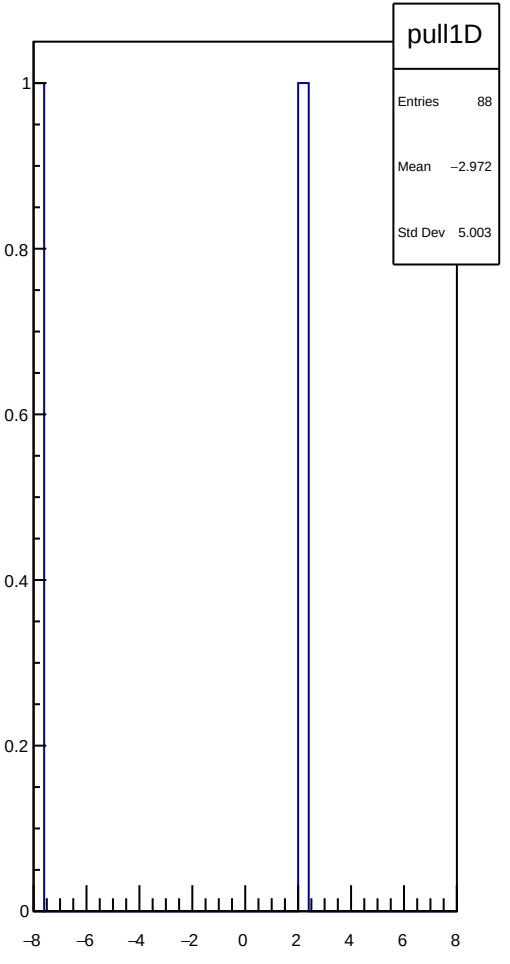

pull1D
Entries 88
Mean 0.8212
Std Dev 4.074
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

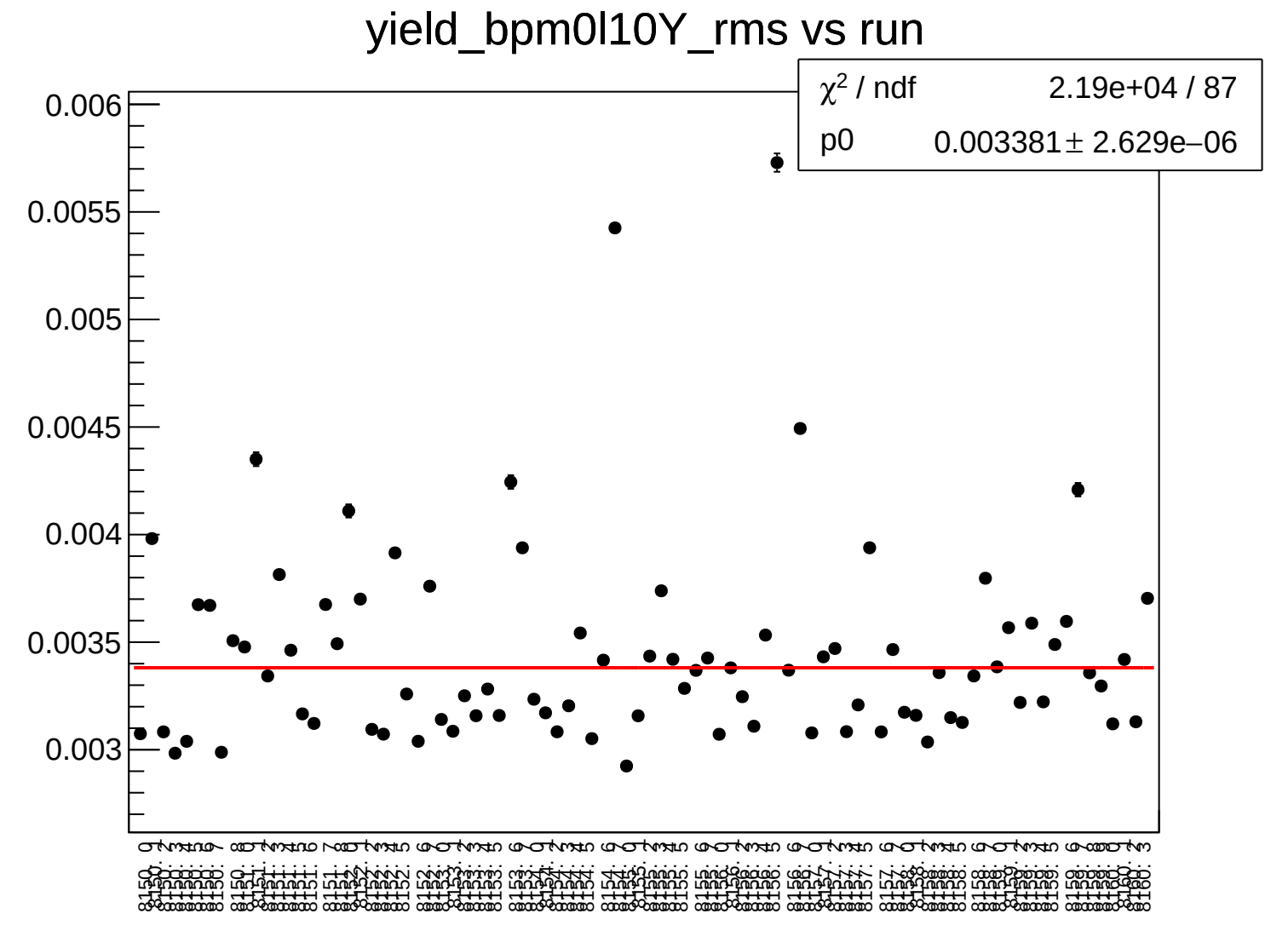

yield_bpm0l09Y_rms vs run
χ² / ndf 1.493e+04 / 87
p0 0.01267 ± 9.828e–06
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

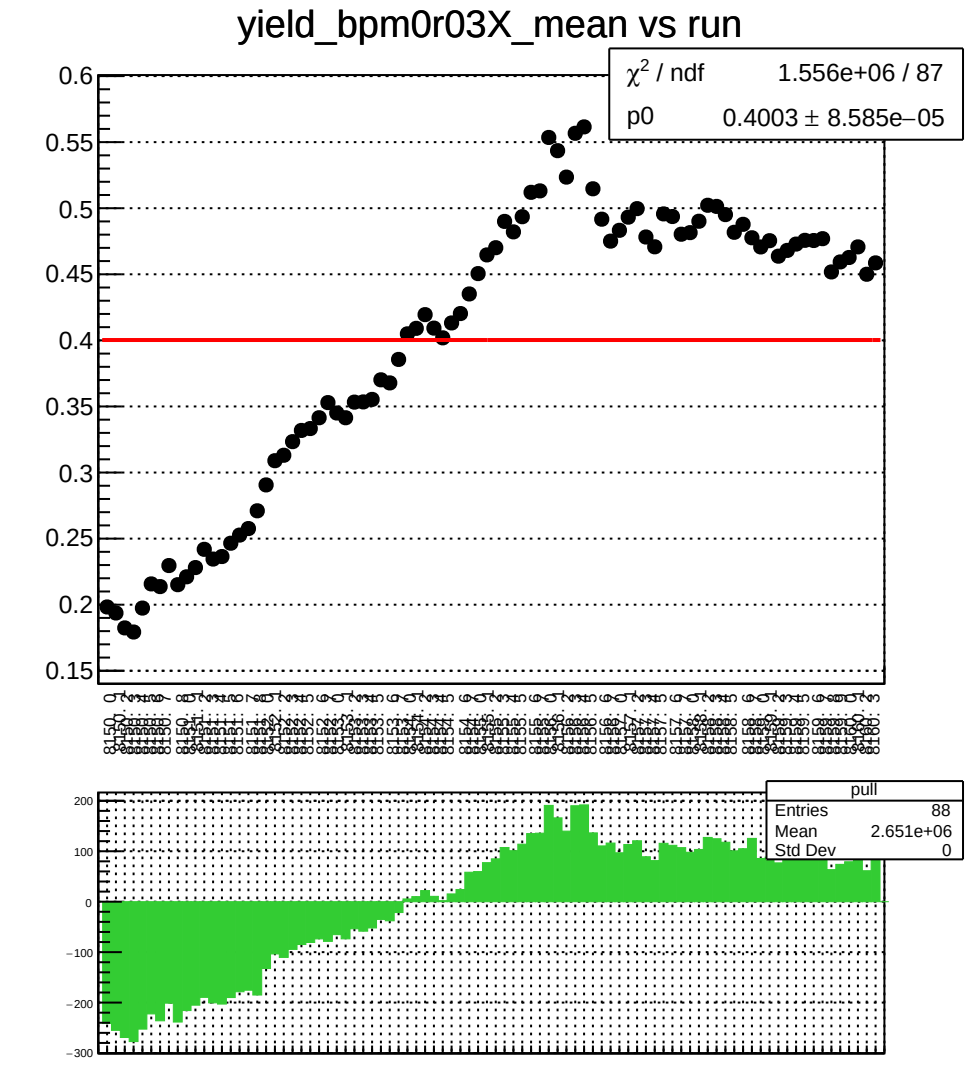

yield_bpm0l10X_mean vs run
χ² / ndf 4.465e+06 / 87
p0 −1.421 ± 1.411e−05
−1.38
−1.4
−1.42
−1.44
−1.46
−1.48
pull
Entries 88
Mean 1.104e+04
Std Dev 0
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 88
Mean −5.23
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

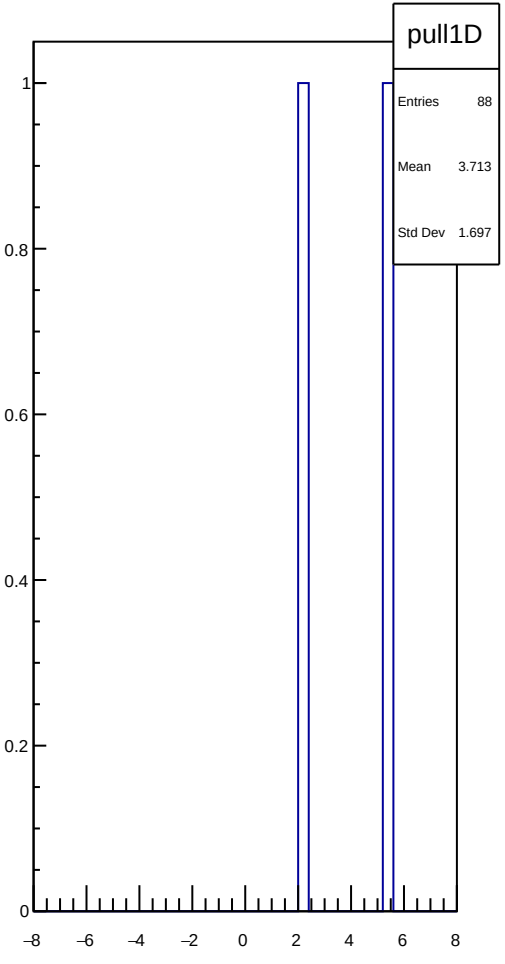

yield_bpm0l10X_rms vs run
χ² / ndf 6579 / 87
p0 0.01289 ± 9.976e–06
0.016
0.015
0.014
0.013
0.012
0.011

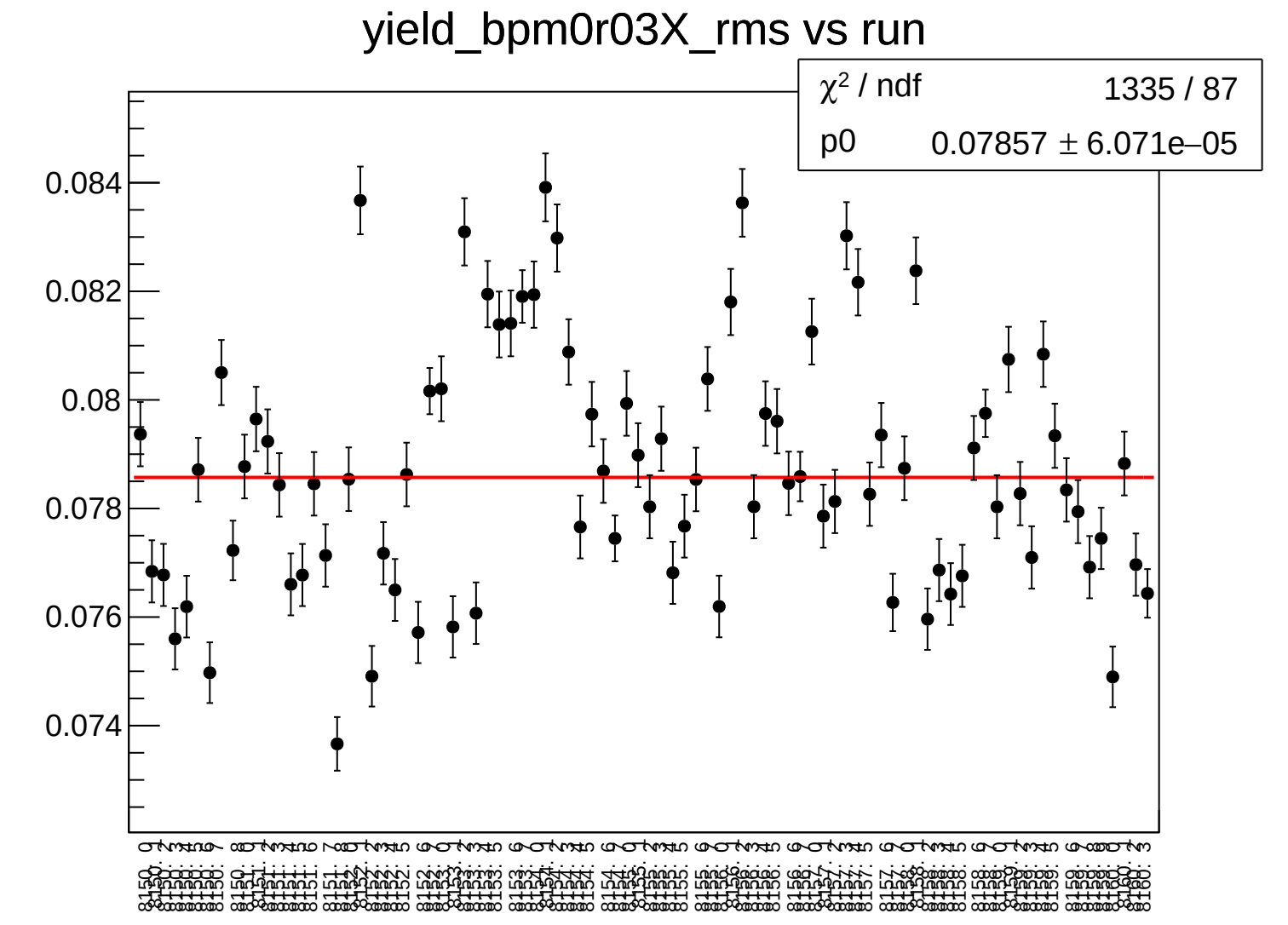

yield_bpm0l10Y_mean vs run
χ² / ndf 3.112e+06 / 87
p0 −0.2057 ± 3.717e−06
−0.195
−0.2
−0.205
−0.21
−0.215
−0.22
pull
Entries 88
Mean −2940
Std Dev 0
300
200
100
0
−100
−200
−300

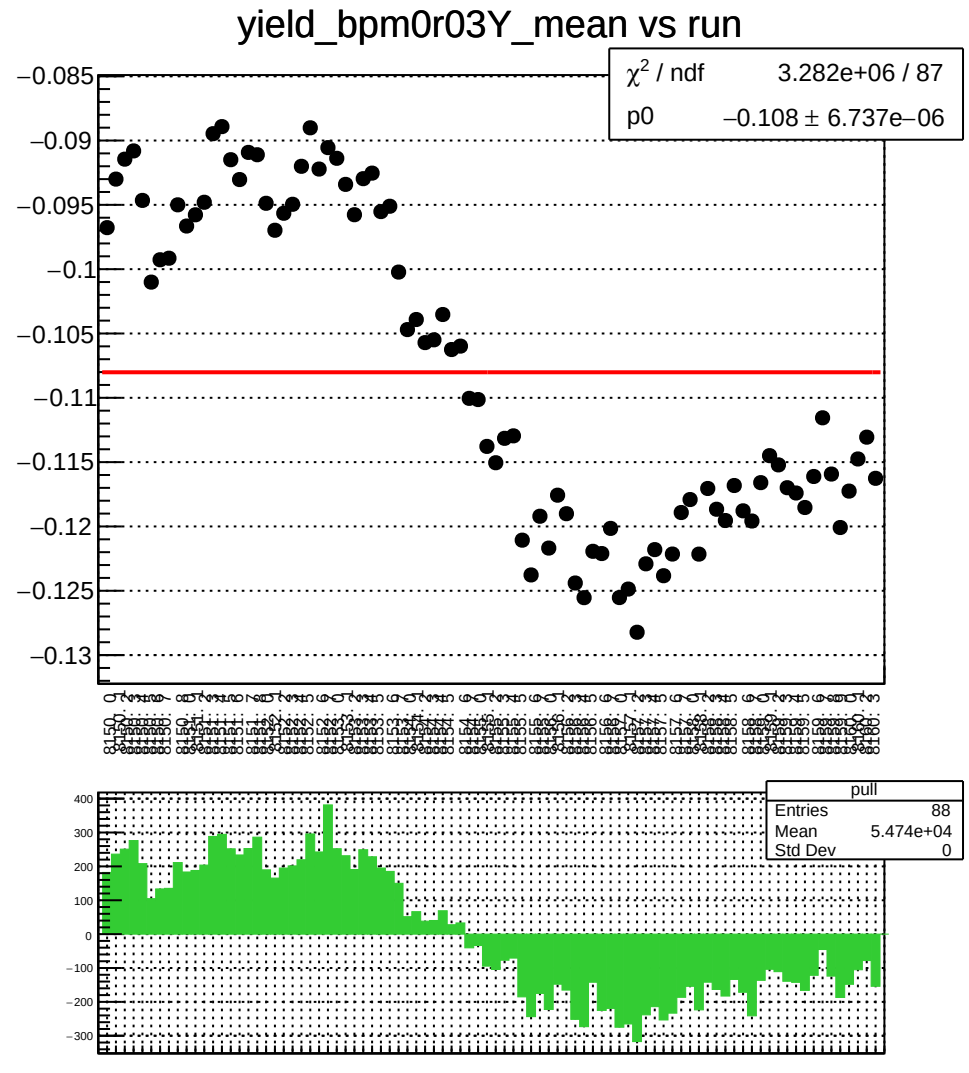

pull1D
Entries 88
Mean −2.972
Std Dev 5.003
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

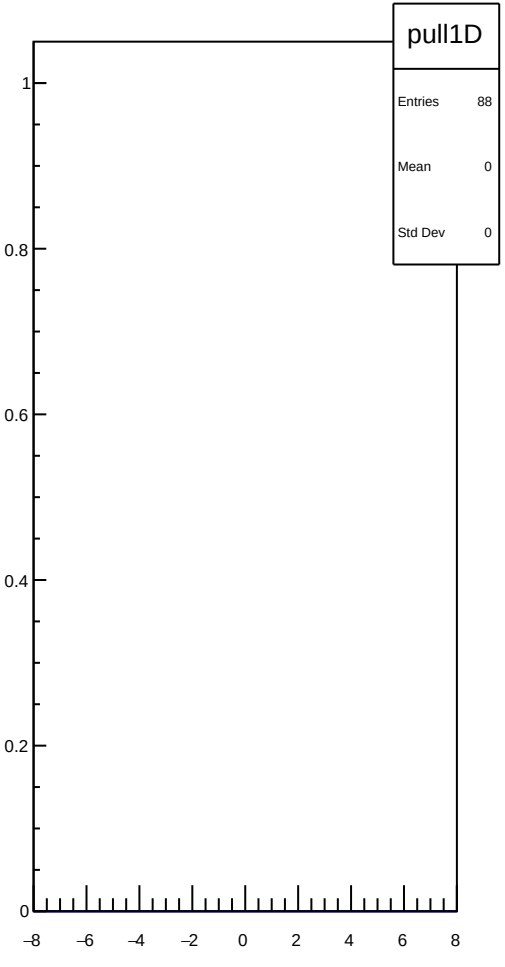

yield_bpm0l10Y_rms vs run
χ² / ndf 2.19e+04 / 87
p0 0.003381 ± 2.629e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

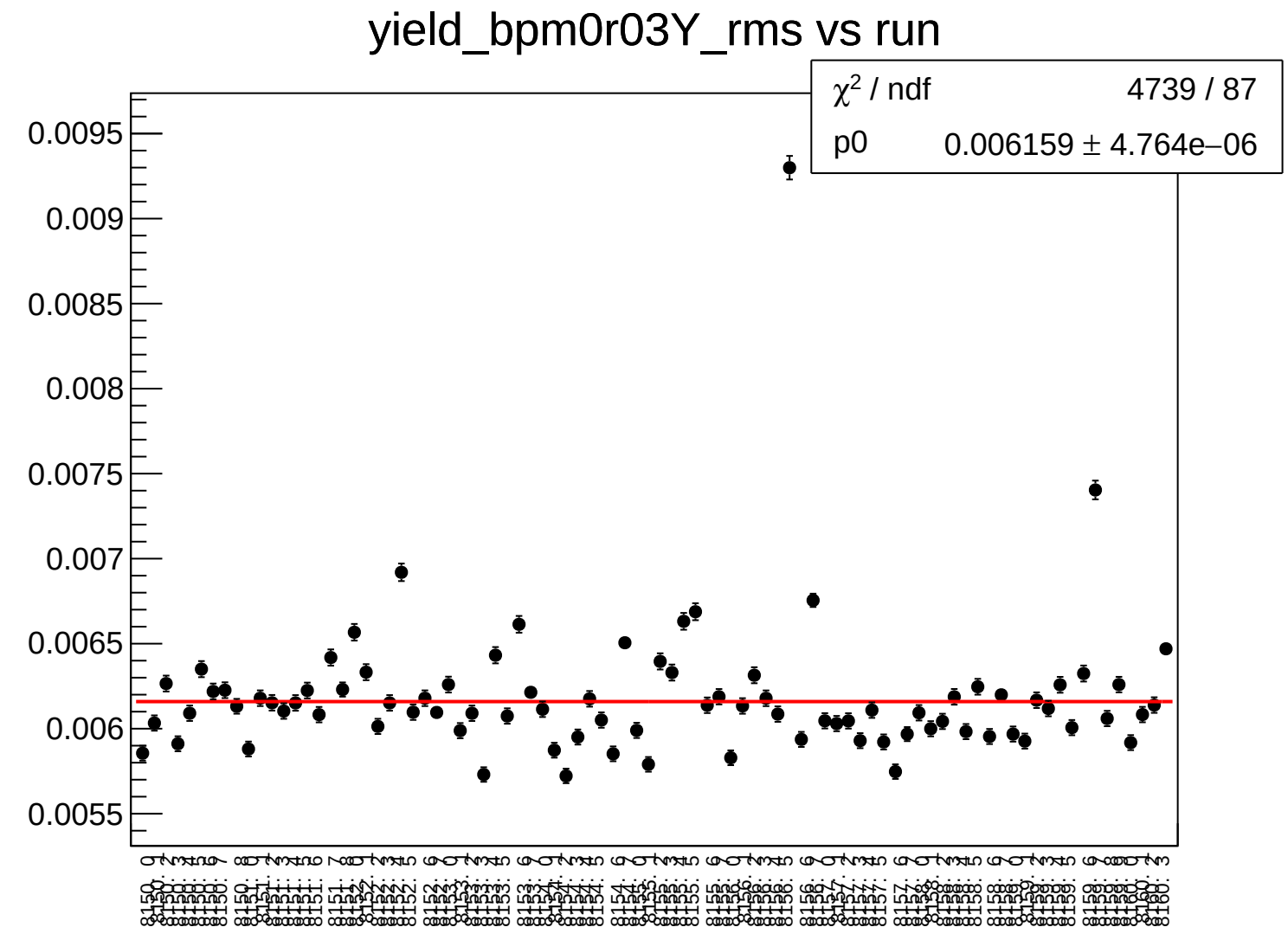

yield_bpm0r03X_mean vs run
χ² / ndf 1.556e+06 / 87
p0 0.4003 ± 8.585e−05
pull
Entries 88
Mean 2.651e+06
Std Dev 0

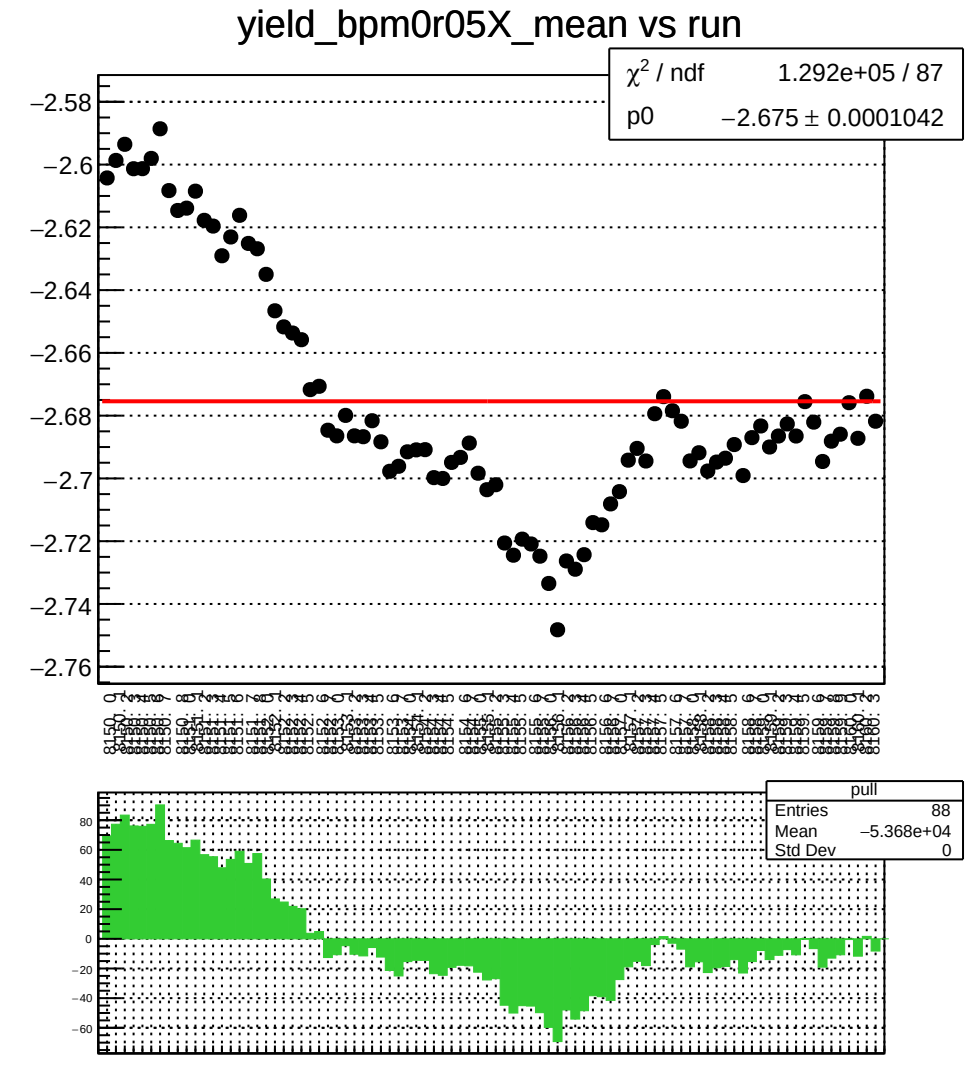

pull1D
Entries 88
Mean 3.713
Std Dev 1.697

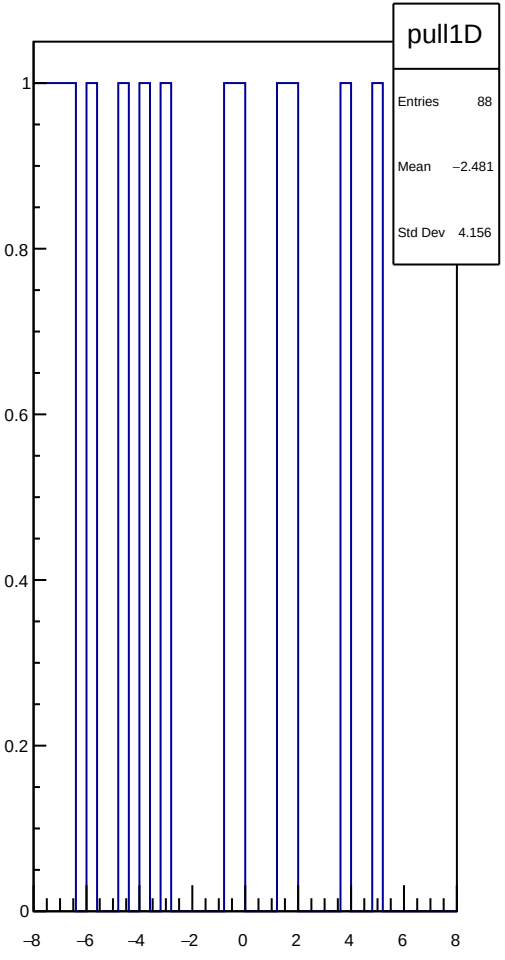

yield_bpm0r03X_rms vs run
χ² / ndf 1335 / 87
p0 0.07857 ± 6.071e–05
0.084
0.082
0.08
0.078
0.076
0.074

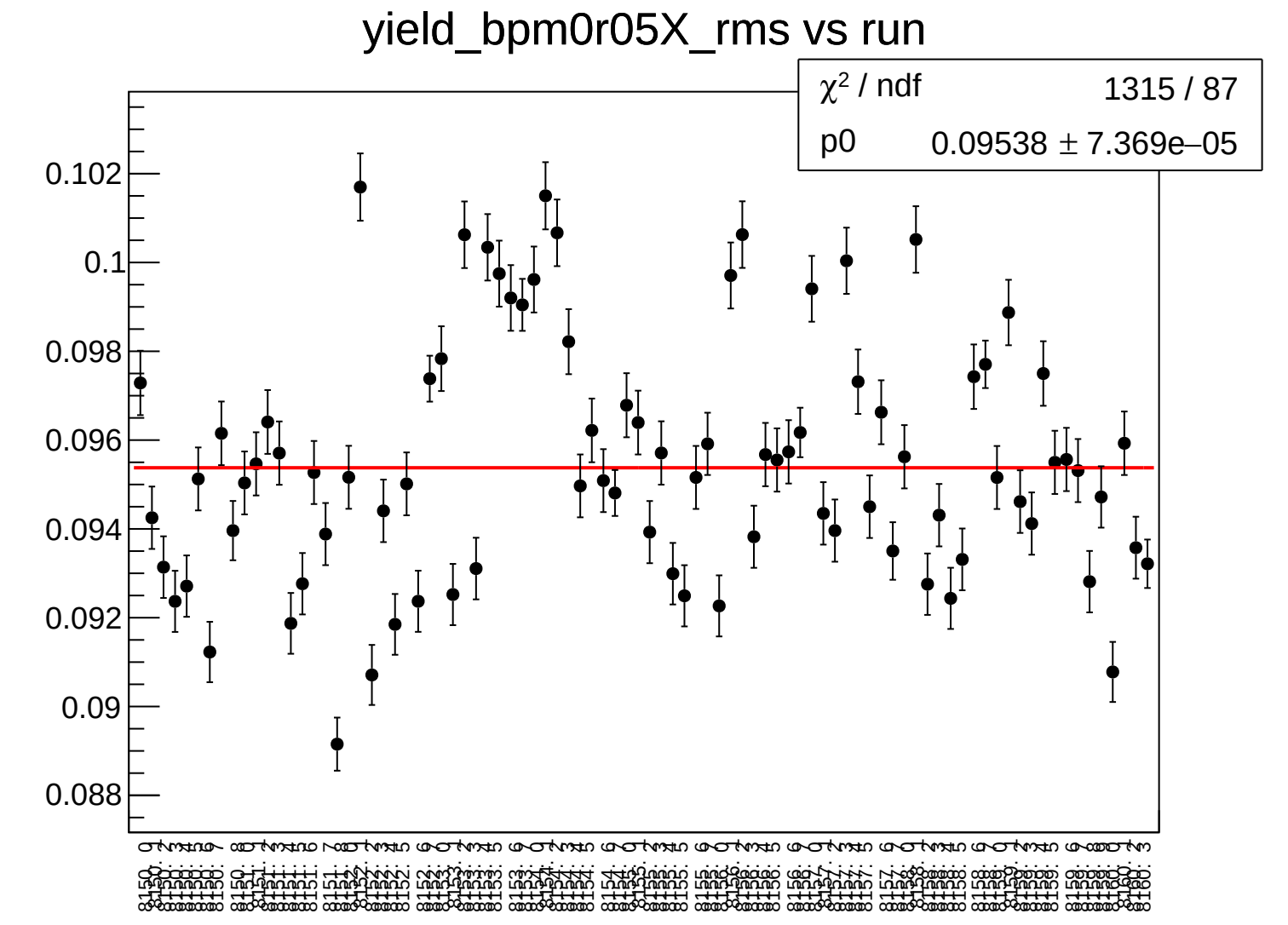

yield_bpm0r03Y_mean vs run
χ² / ndf 3.282e+06 / 87
p0 −0.108 ± 6.737e−06
−0.085
−0.09
−0.095
−0.1
−0.105
−0.11
−0.115
−0.12
−0.125
−0.13
pull
Entries 88
Mean 5.474e+04
Std Dev 0
400
300
200
100
0
−100
−200
−300

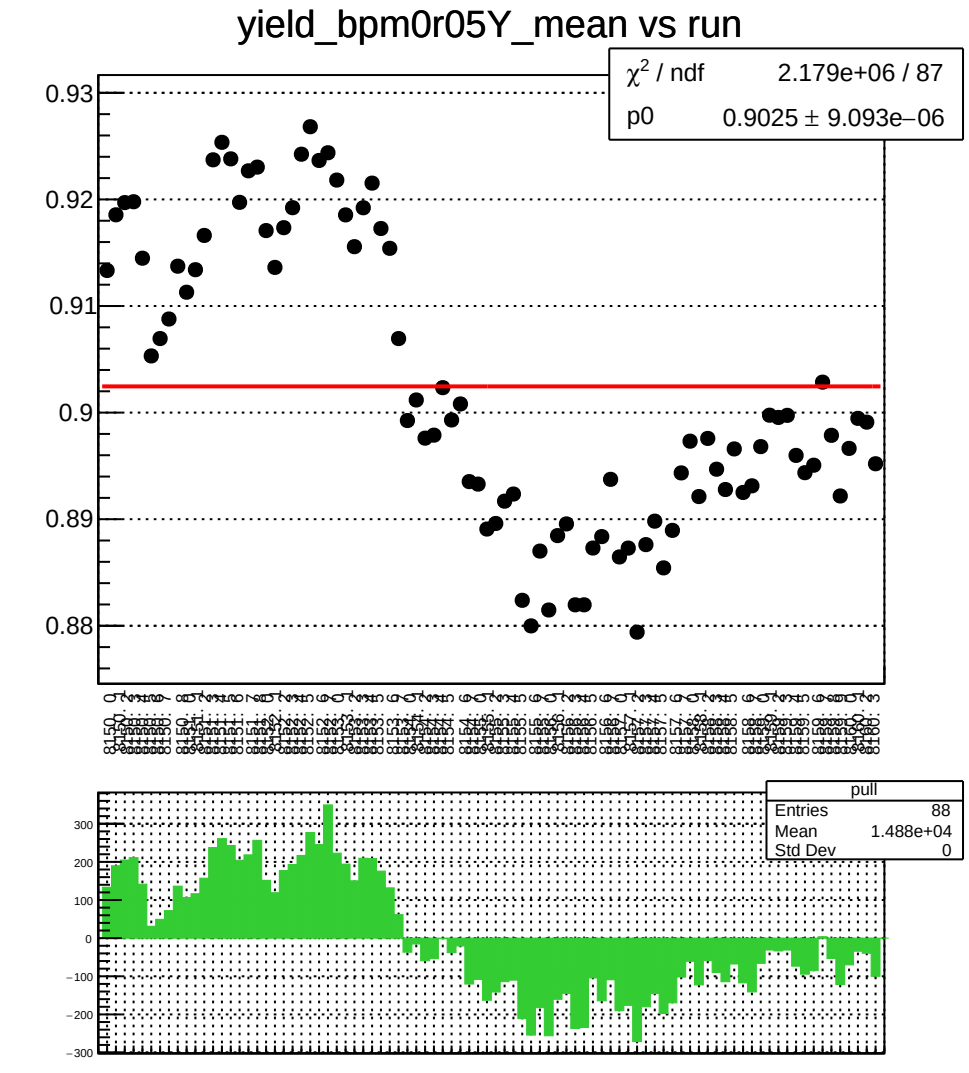

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

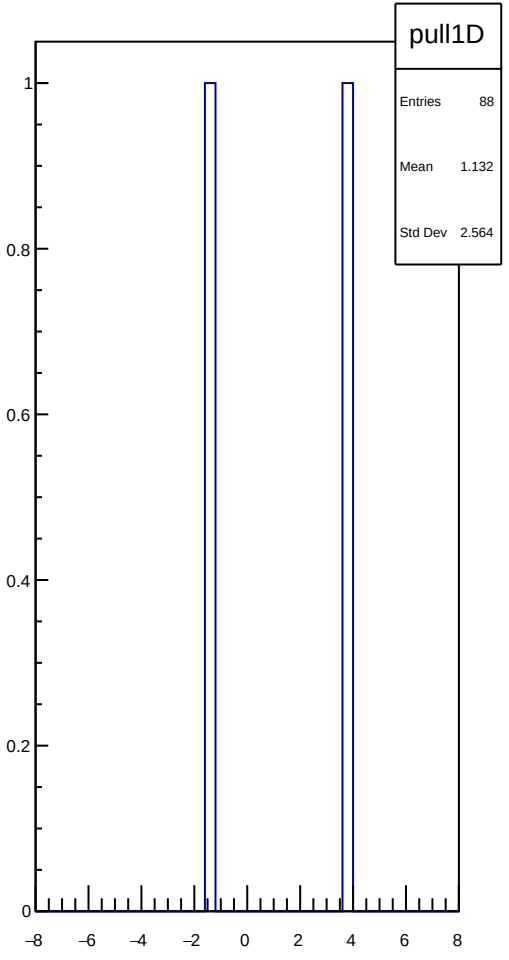

yield_bpm0r03Y_rms vs run
χ² / ndf 4739 / 87
p0 0.006159 ± 4.764e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

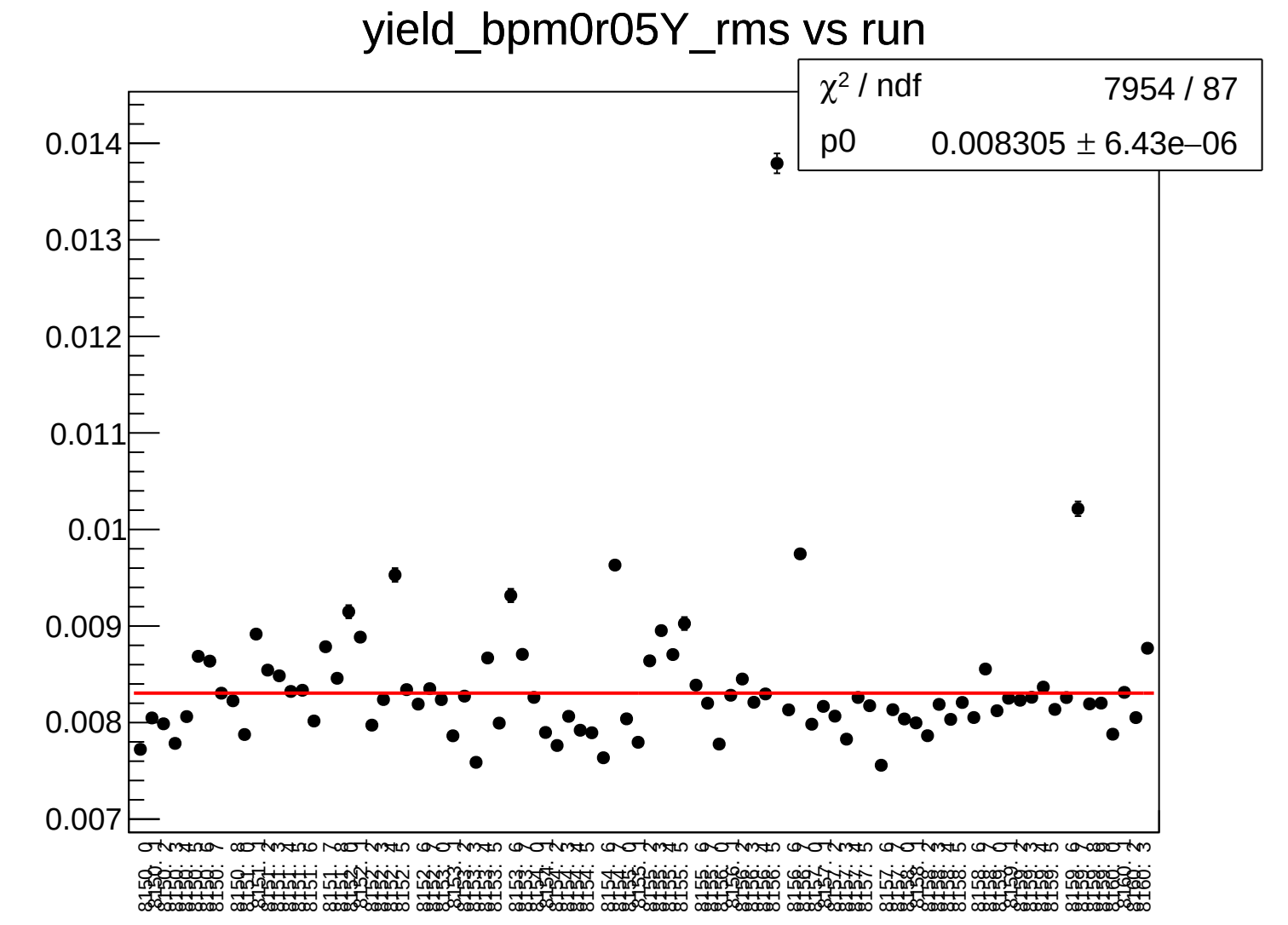

yield_bpm0r05X_mean vs run
χ² / ndf 1.292e+05 / 87
p0 −2.675 ± 0.0001042
−2.58
−2.6
−2.62
−2.64
−2.66
−2.68
−2.7
−2.72
−2.74
−2.76
pull
Entries 88
Mean −5.368e+04
Std Dev 0
80
60
40
20
0
−20
−40
−60

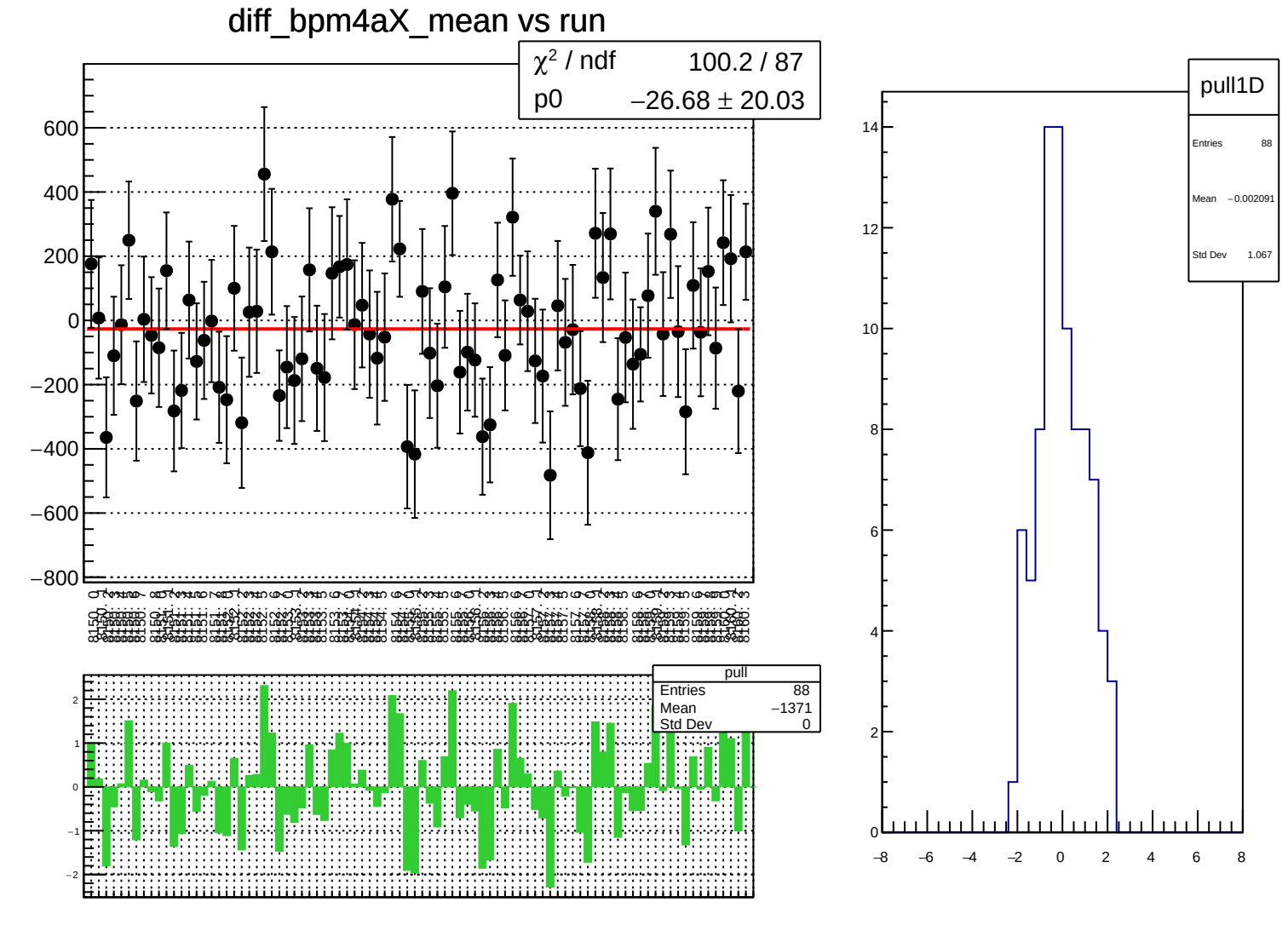

pull1D
Entries 88
Mean −2.481
Std Dev 4.156
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

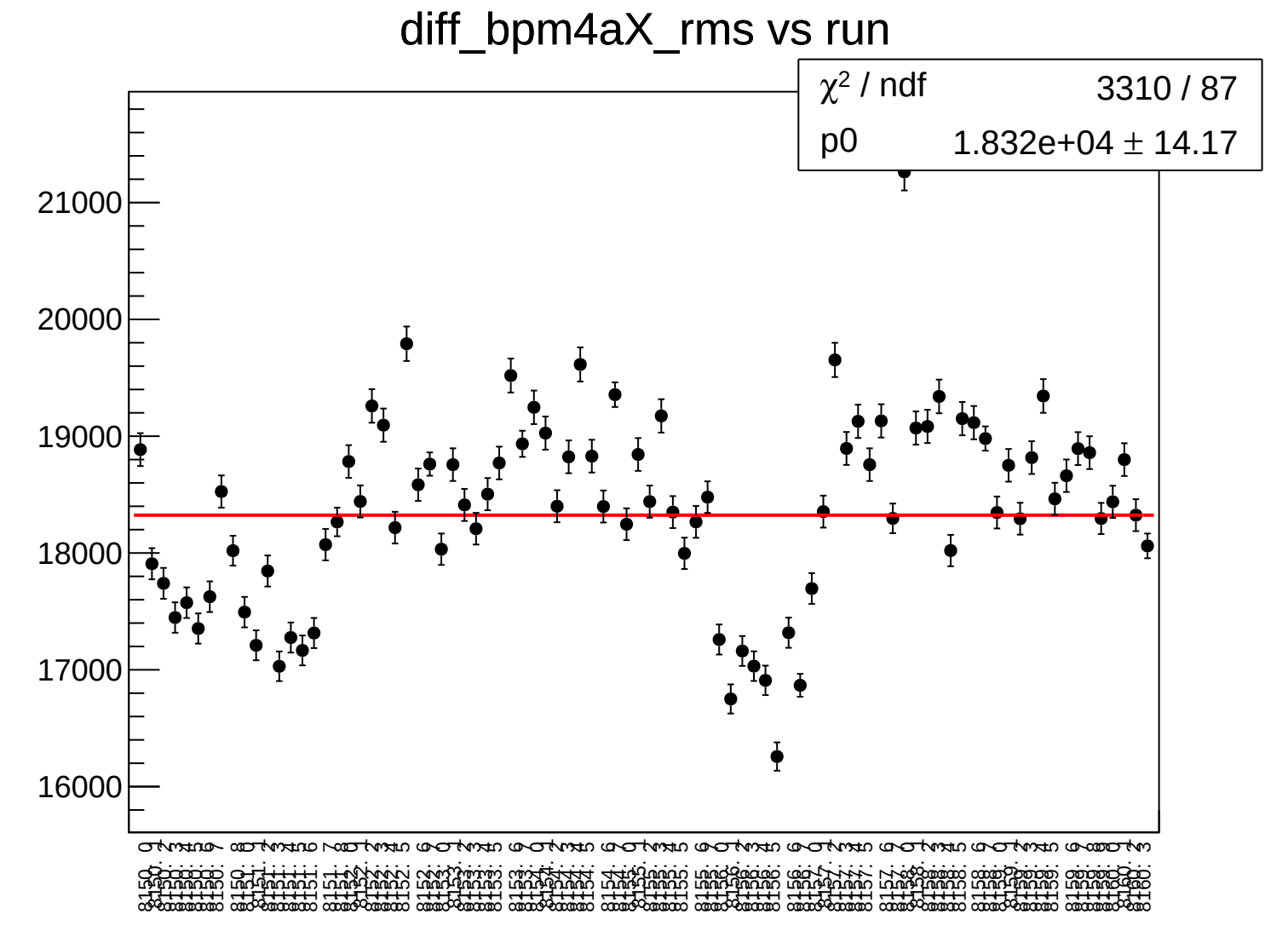

yield_bpm0r05X_rms vs run
χ² / ndf 1315 / 87
p0 0.09538 ± 7.369e–05
0.102
0.1
0.098
0.096
0.094
0.092
0.09
0.088

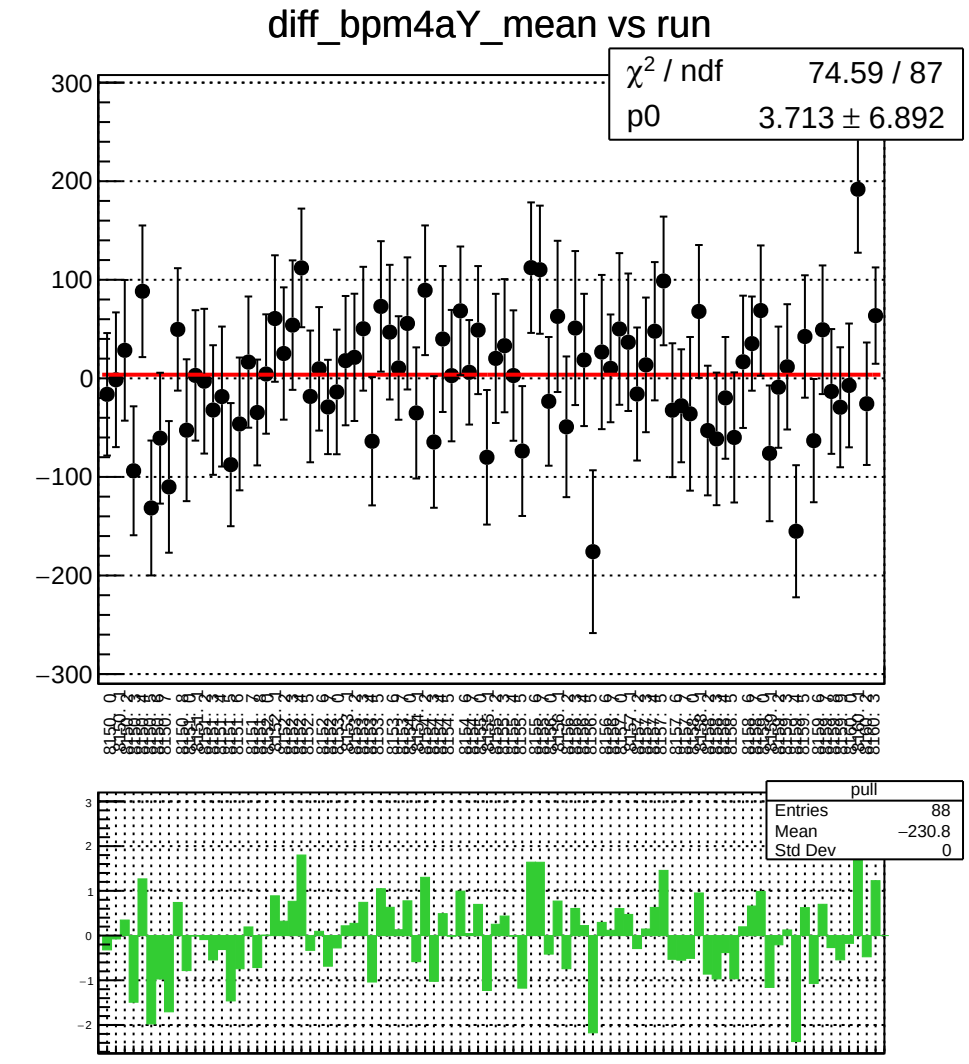

yield_bpm0r05Y_mean vs run
χ² / ndf 2.179e+06 / 87
p0 0.9025 ± 9.093e−06
0.93
0.92
0.91
0.9
0.89
0.88
pull
Entries 88
Mean 1.488e+04
Std Dev 0
300
200
100
0
−100
−200
−300

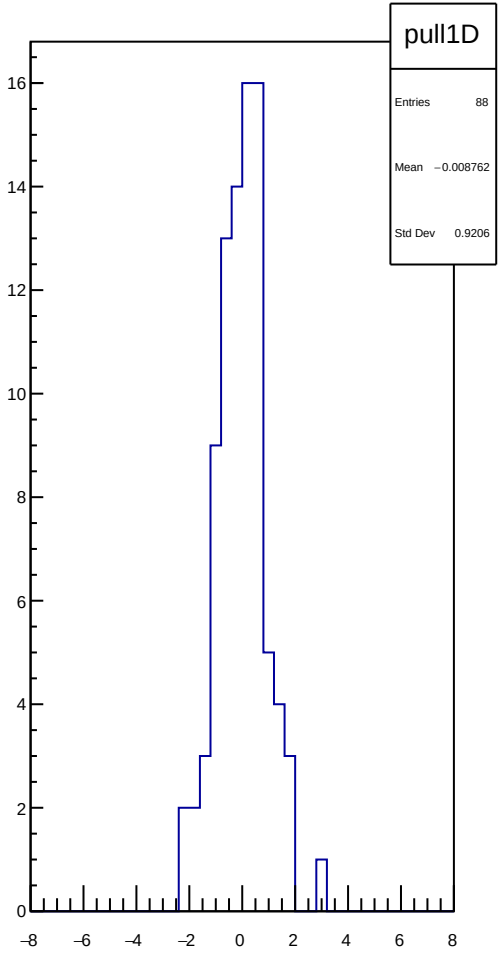

pull1D
Entries 88
Mean 1.132
Std Dev 2.564
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

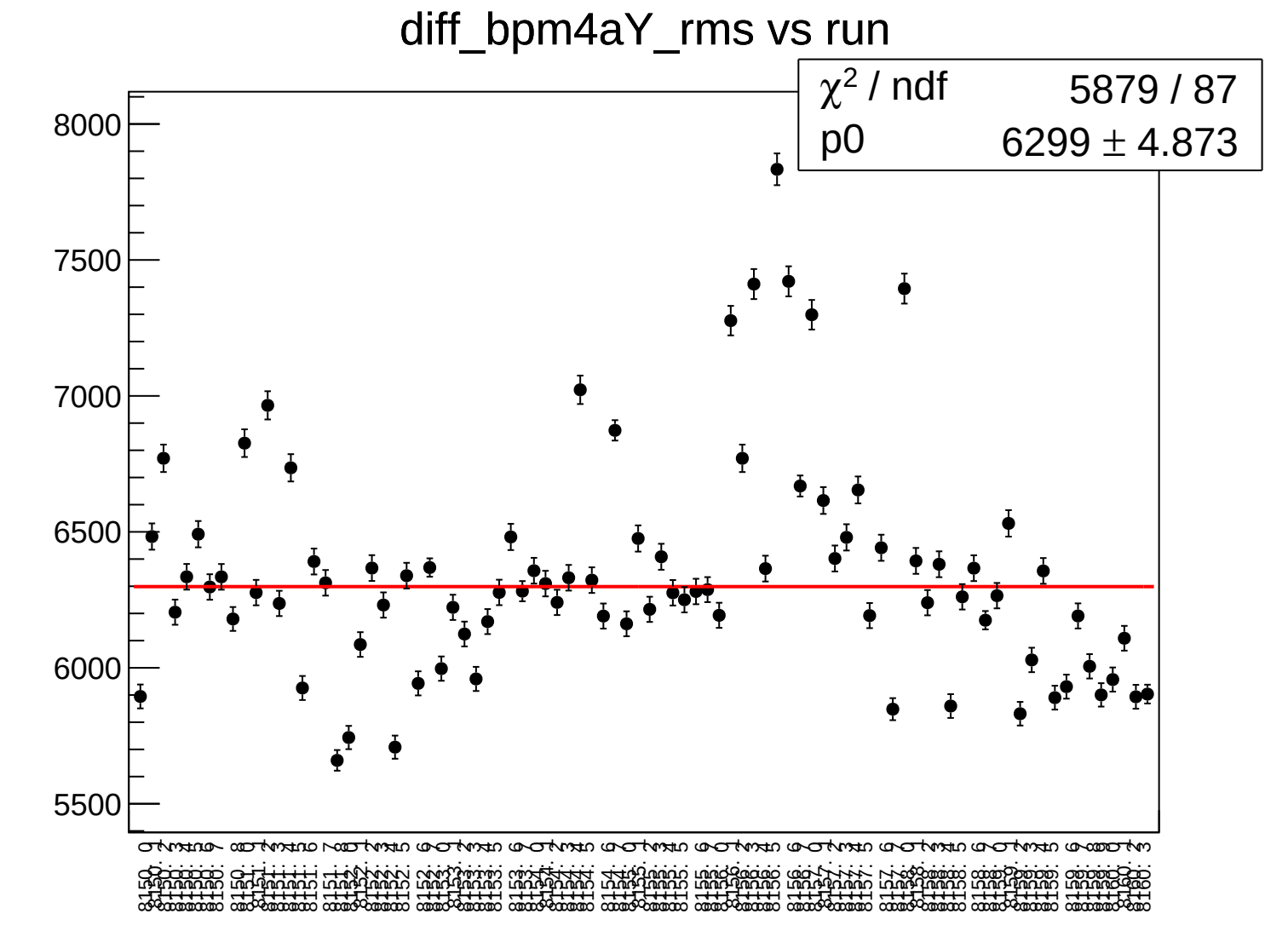

yield_bpm0r05Y_rms vs run
χ² / ndf 7954 / 87
p0 0.008305 ± 6.43e–06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

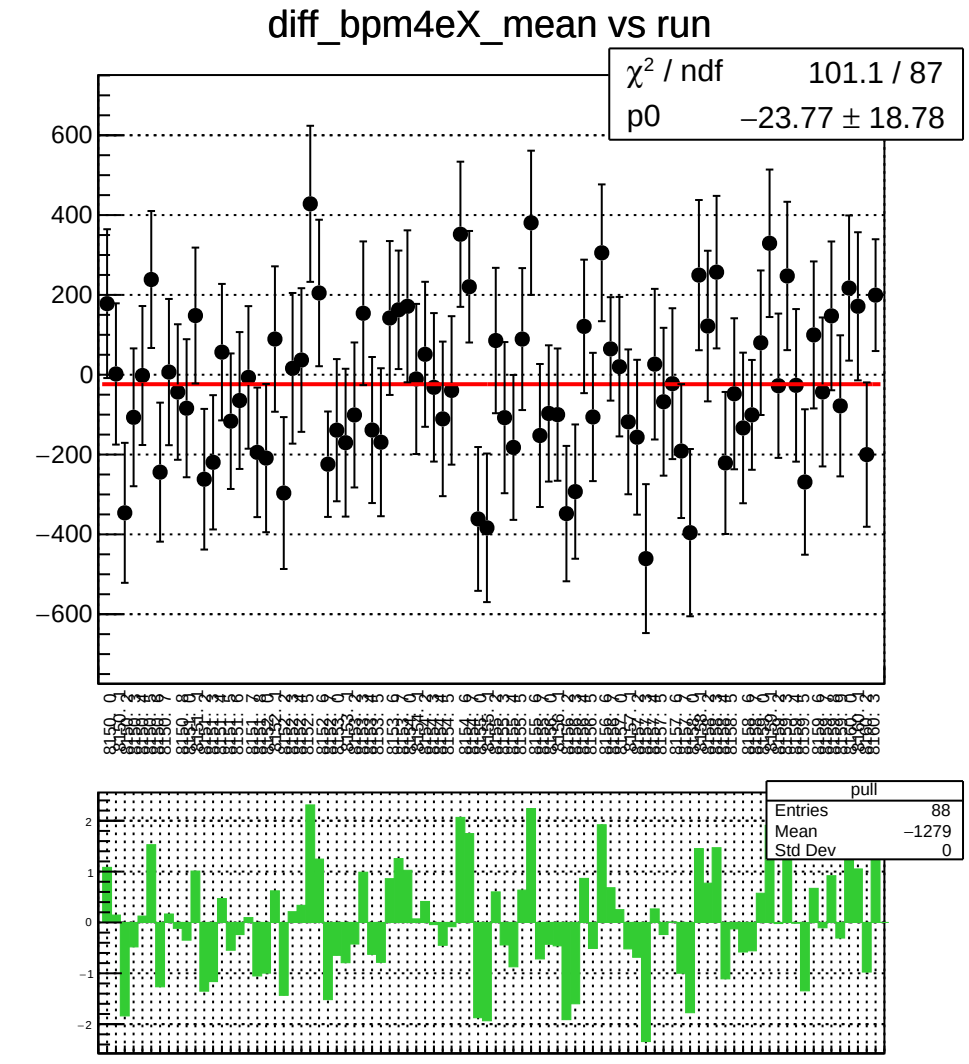

diff_bpm4aX_mean vs run
χ² / ndf 100.2 / 87
p0 −26.68 ± 20.03
pull
Entries 88
Mean −1371
Std Dev 0
pull1D
Entries 88
Mean −0.002091
Std Dev 1.067

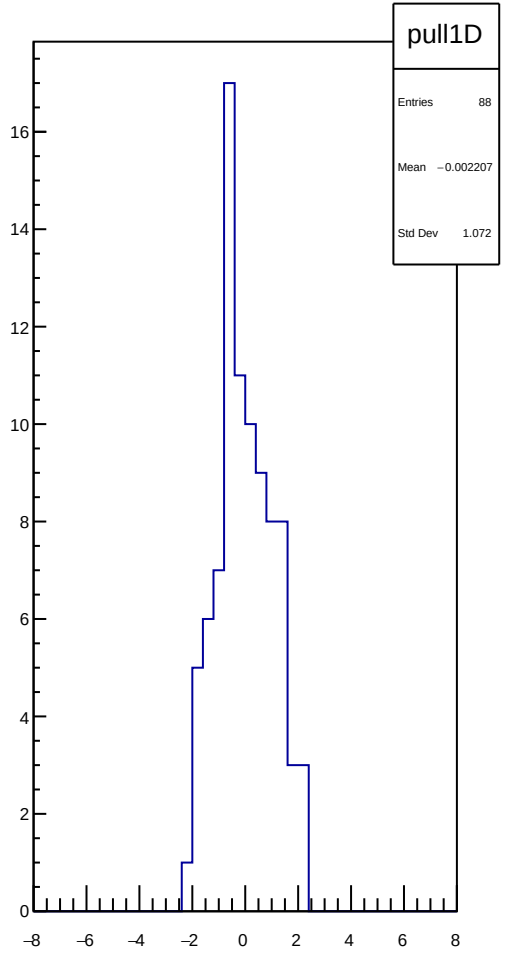

diff_bpm4aX_rms vs run
χ² / ndf 3310 / 87
p0 1.832e+04 ± 14.17
21000
20000
19000
18000
17000
16000

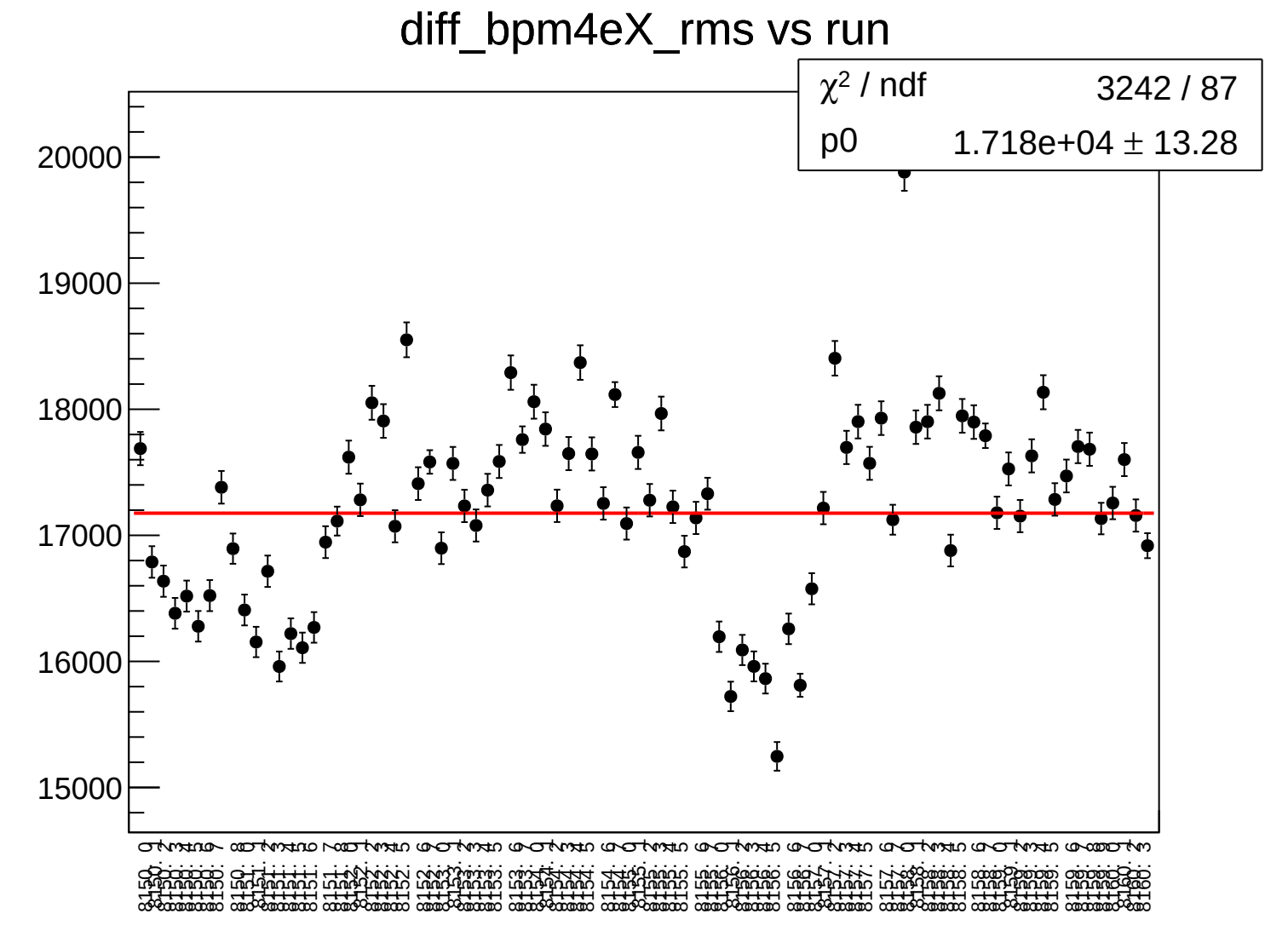

diff_bpm4aY_mean vs run
χ² / ndf 74.59 / 87
p0 3.713 ± 6.892
pull
Entries 88
Mean −230.8
Std Dev 0

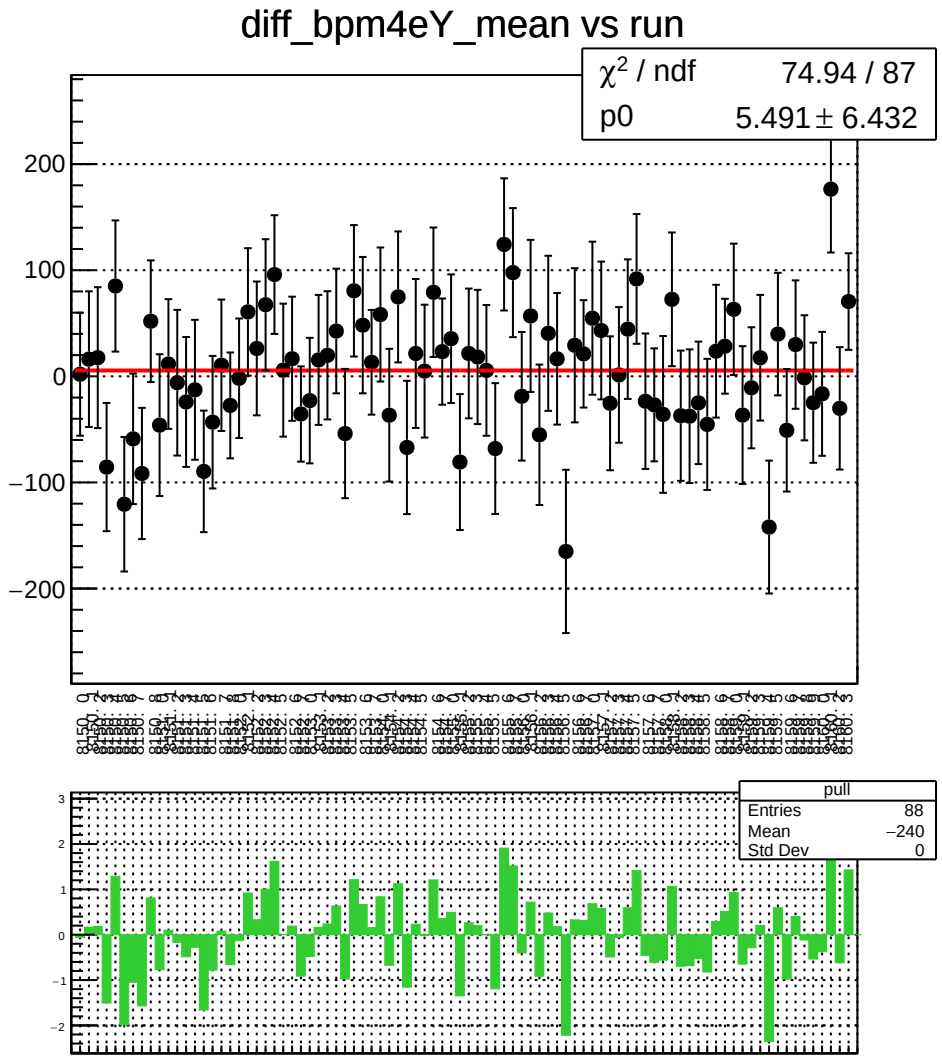

pull1D
Entries 88
Mean −0.008762
Std Dev 0.9206

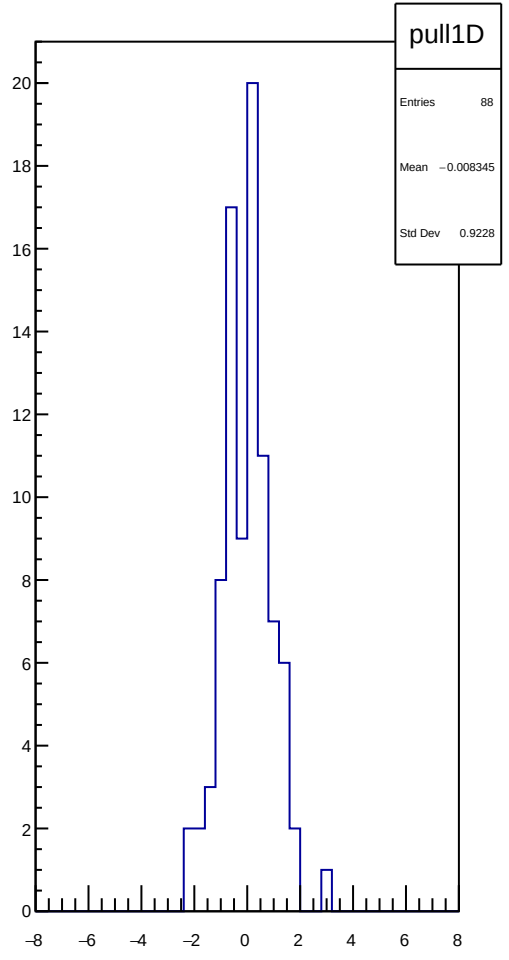

diff_bpm4aY_rms vs run
χ² / ndf 5879 / 87
p0 6299 ± 4.873
8000
7500
7000
6500
6000
5500

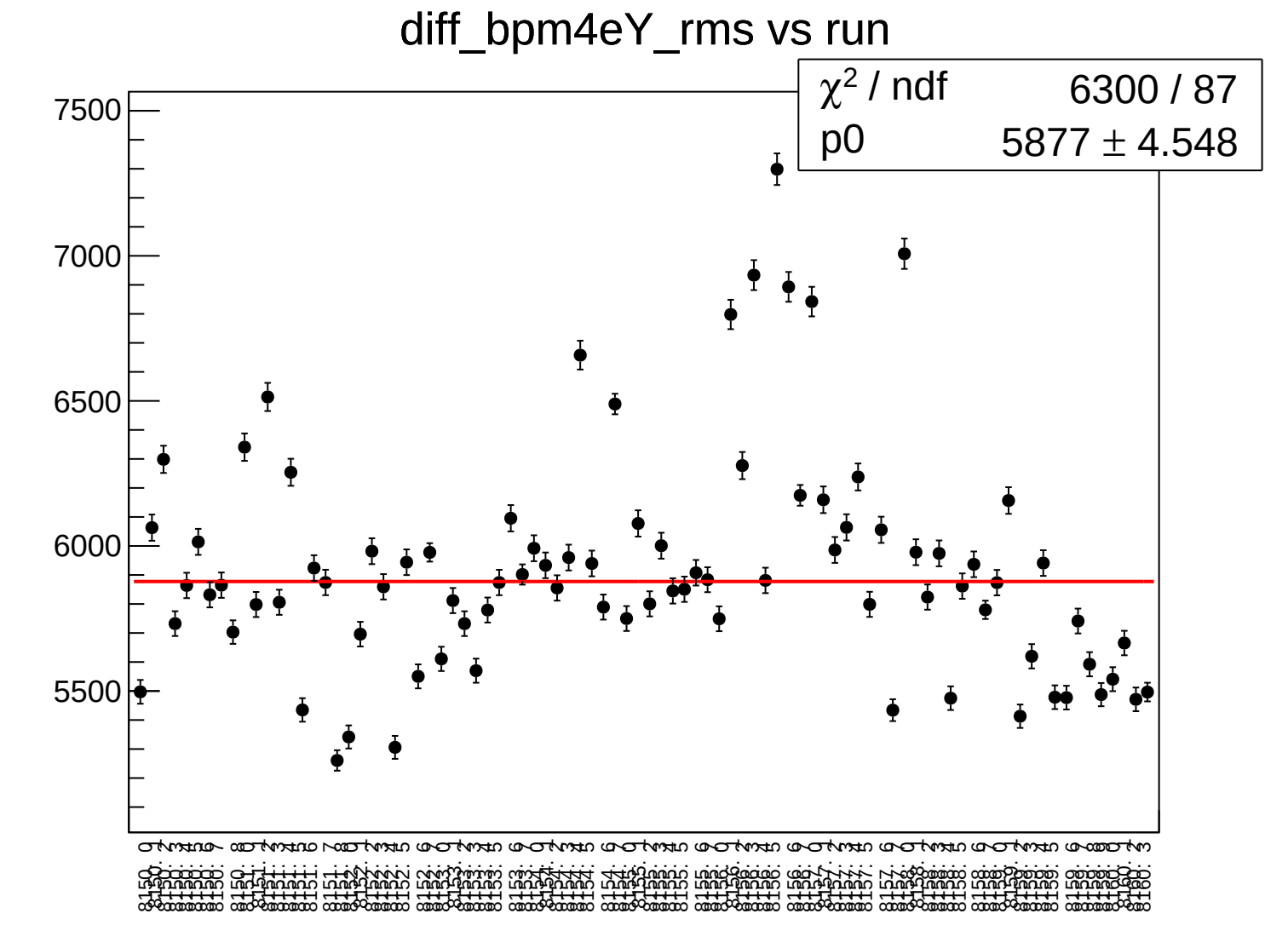

diff_bpm4eX_mean vs run
χ² / ndf 101.1 / 87
p0 −23.77 ± 18.78
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean −1279
Std Dev 0
2
1
0
−1
−2

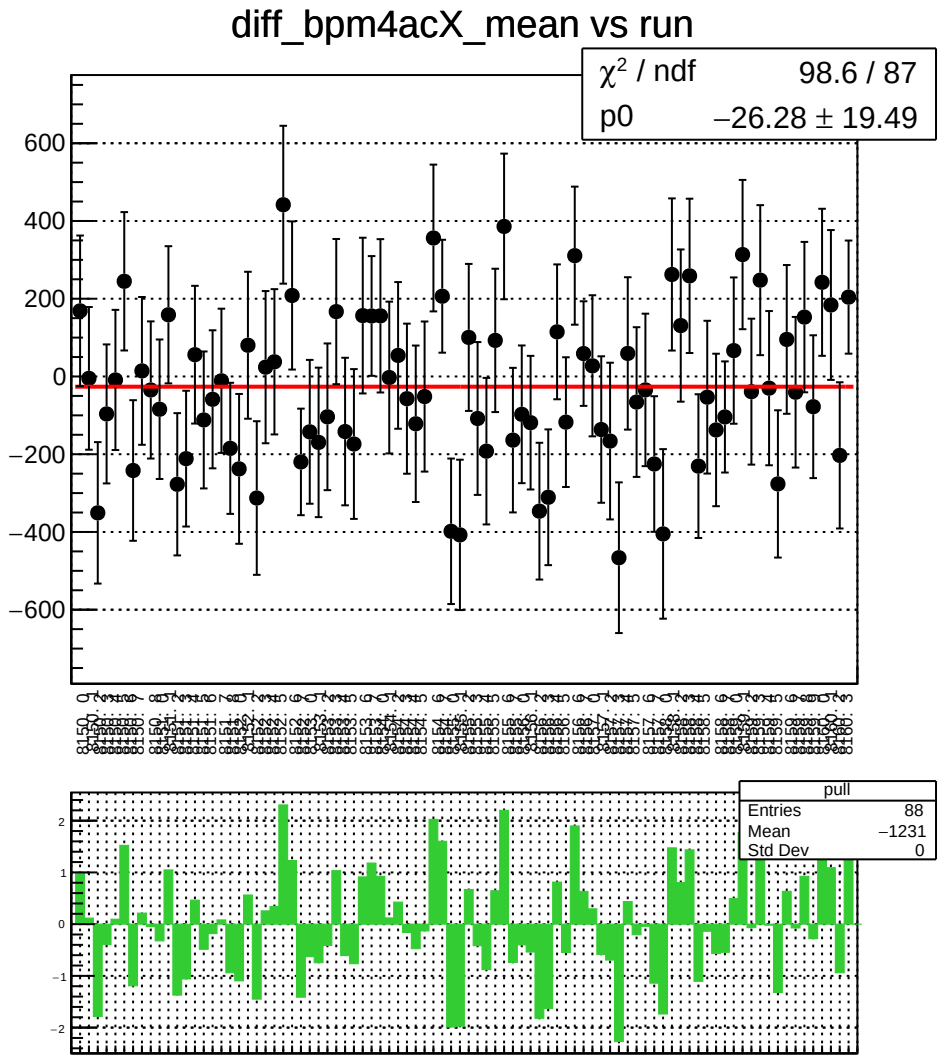

pull1D
Entries 88
Mean −0.002207
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

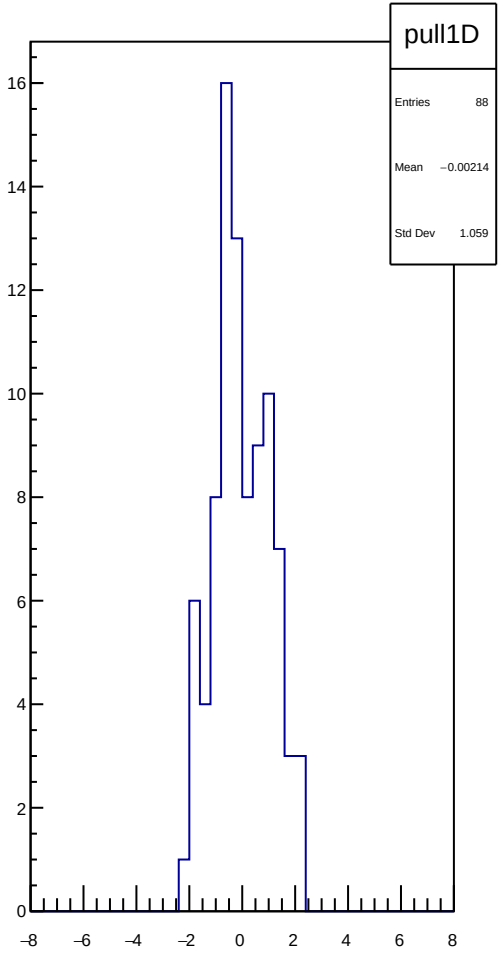

diff_bpm4eX_rms vs run
χ² / ndf 3242 / 87
p0 1.718e+04 ± 13.28
20000
19000
18000
17000
16000
15000

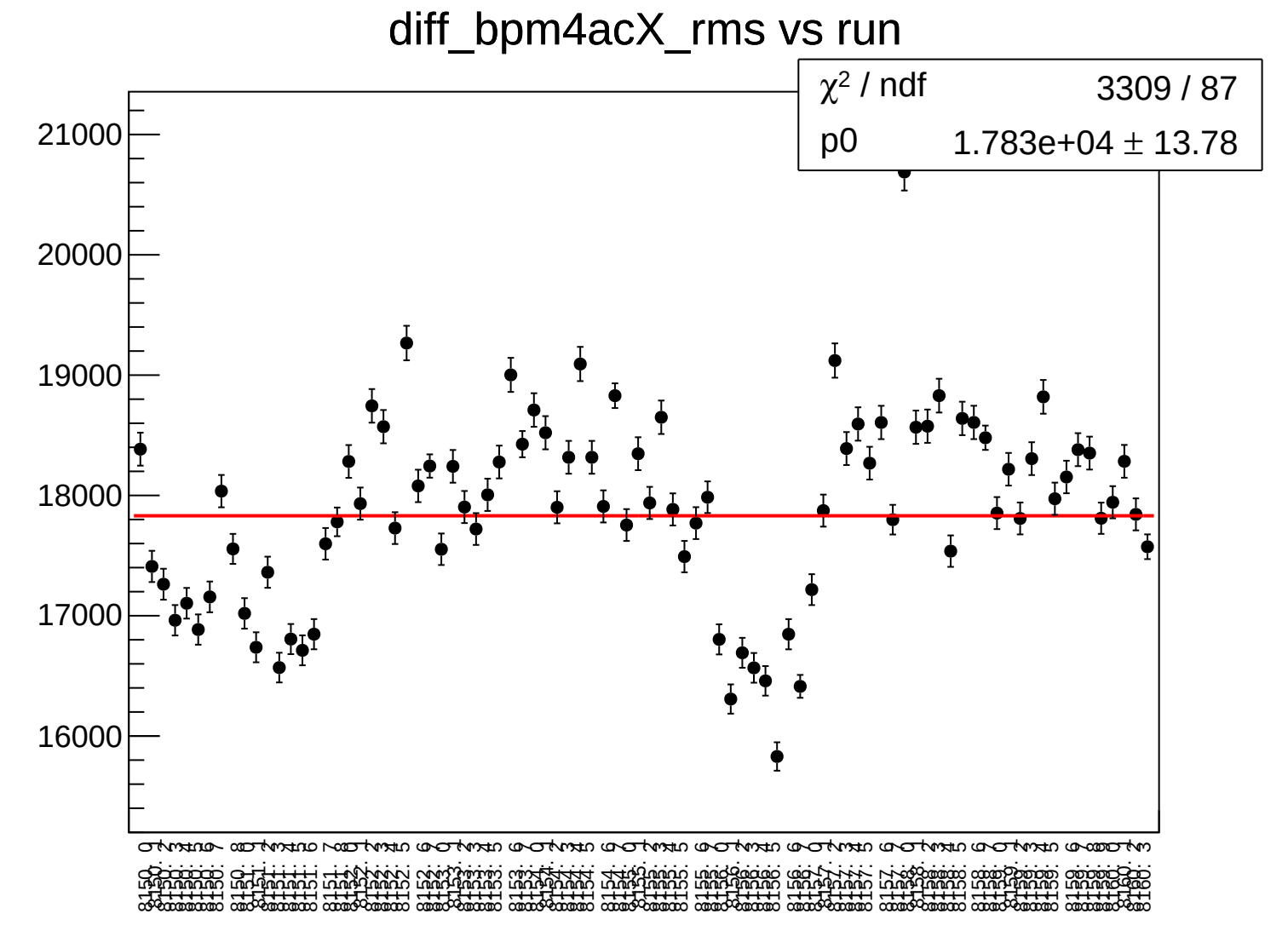

diff_bpm4eY_mean vs run
χ² / ndf 74.94 / 87
p0 5.491 ± 6.432
200
100
0
−100
−200
pull
Entries 88
Mean −240
Std Dev 0
3
2
1
0
−1
−2

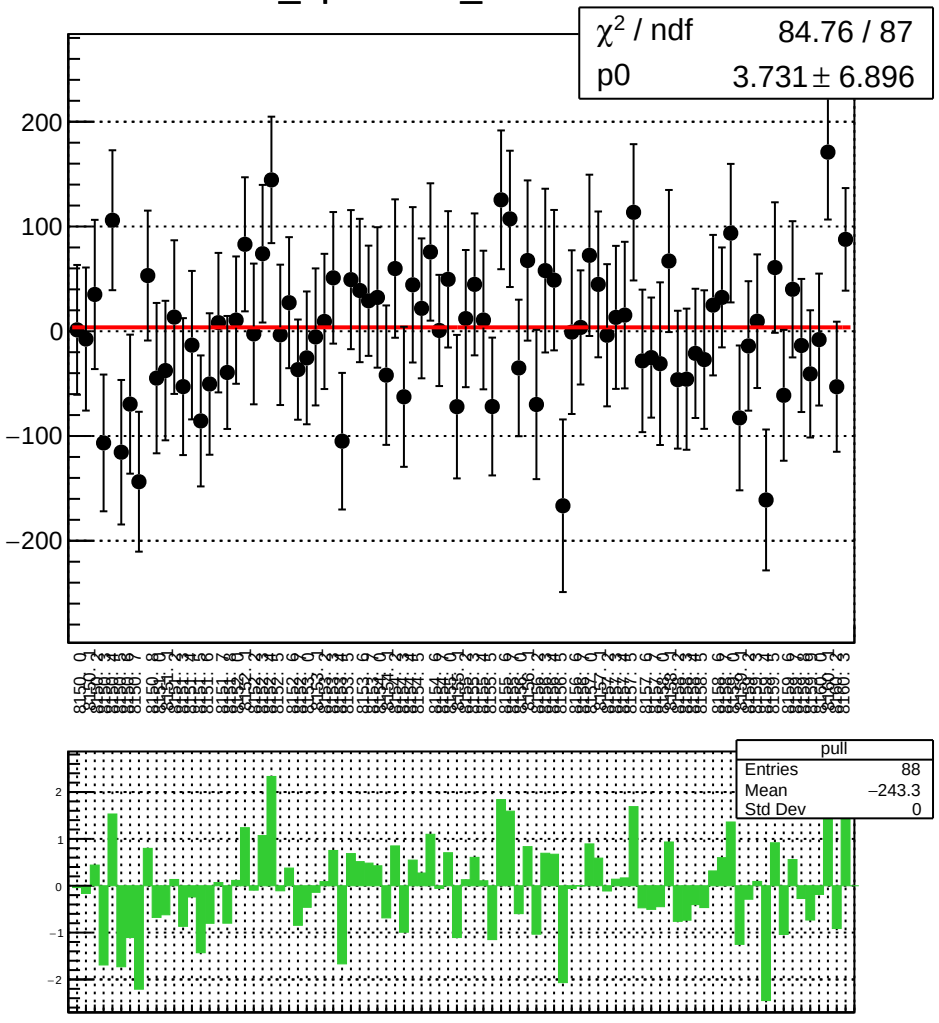

pull1D
Entries 88
Mean −0.008345
Std Dev 0.9228
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

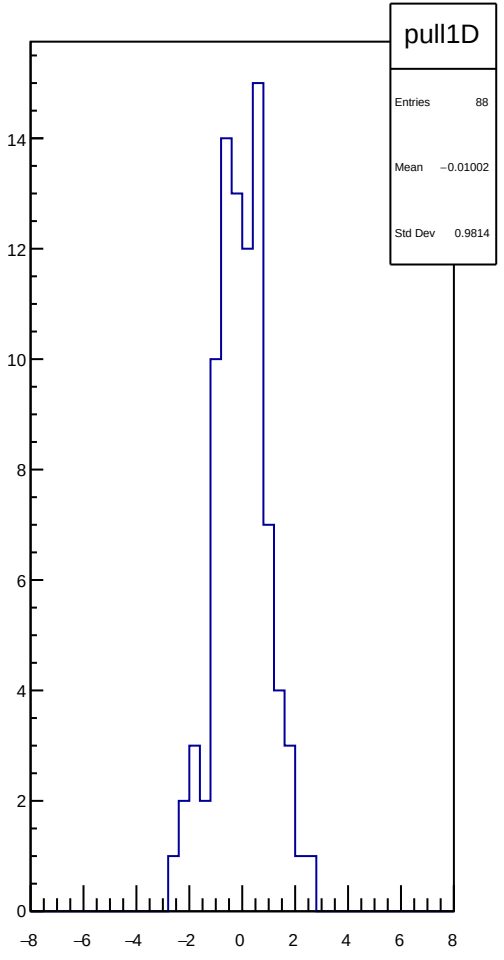

diff_bpm4eY_rms vs run
χ^2 / ndf 6300 / 87
p0 5877 ± 4.548
7500
7000
6500
6000
5500

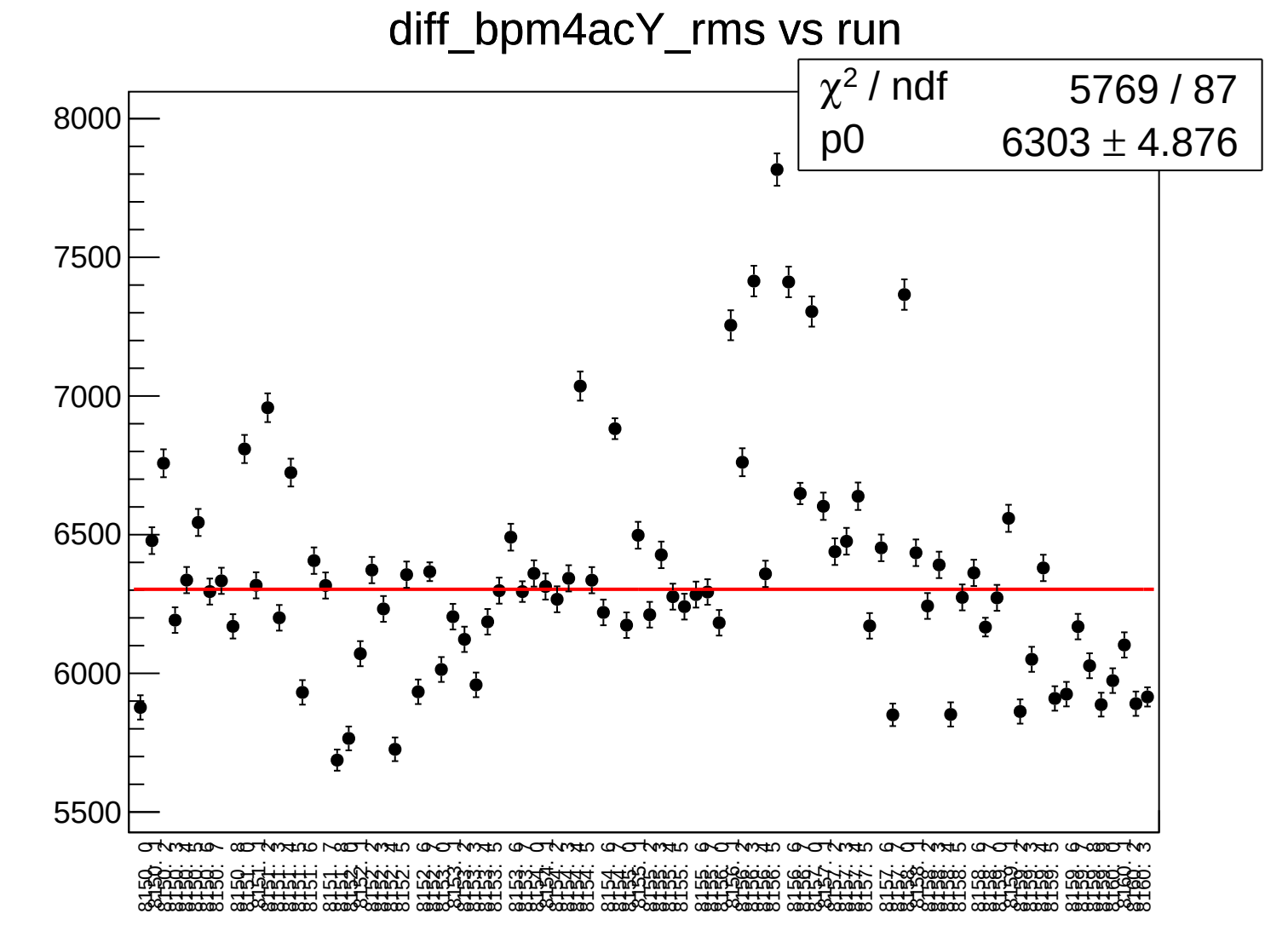

diff_bpm4acX_mean vs run
χ² / ndf 98.6 / 87
p0 −26.28 ± 19.49
pull
Entries 88
Mean −1231
Std Dev 0

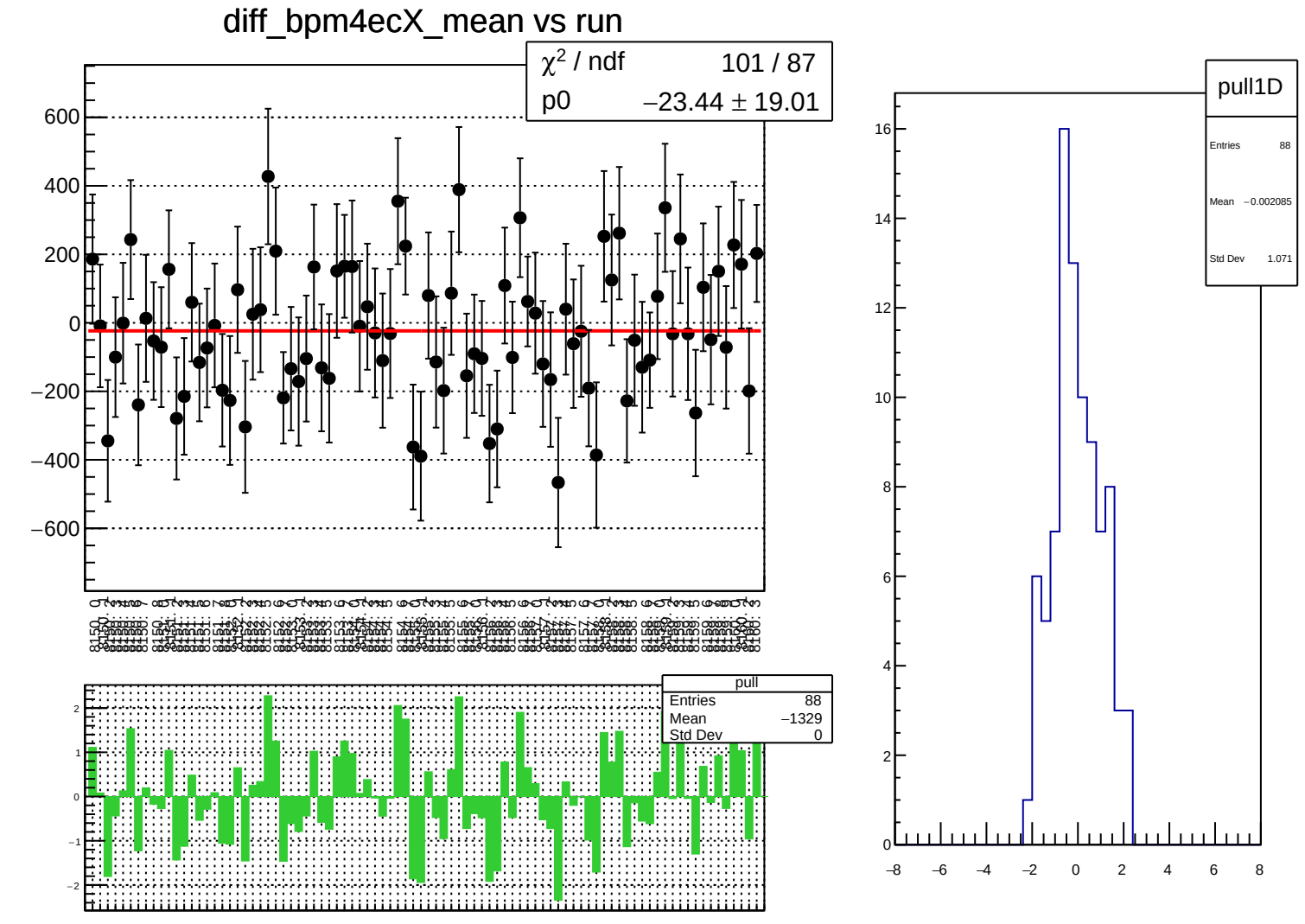

pull1D
Entries 88
Mean −0.00214
Std Dev 1.059

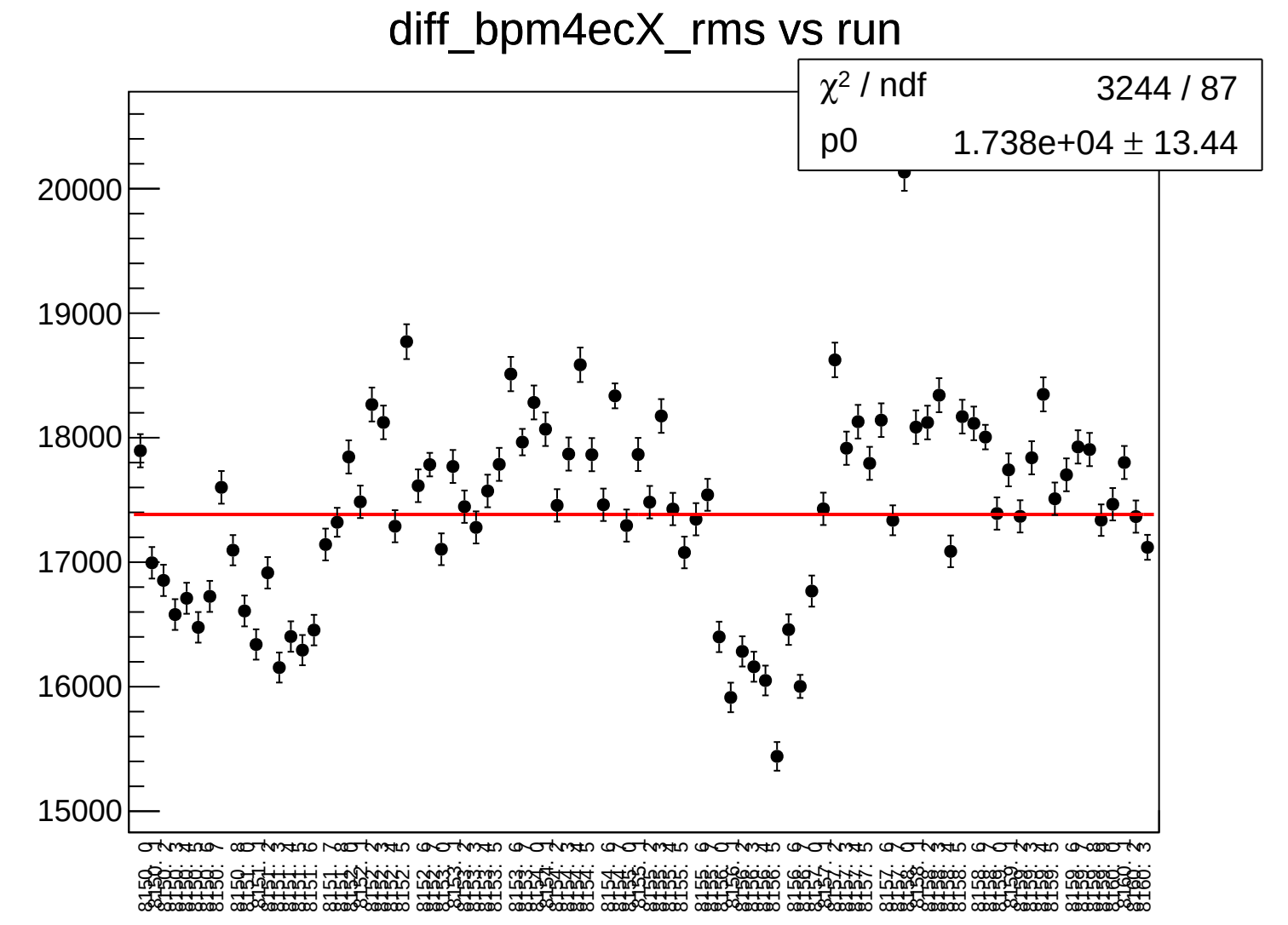

diff_bpm4acX_rms vs run
χ² / ndf 3309 / 87
p0 1.783e+04 ± 13.78
21000
20000
19000
18000
17000
16000

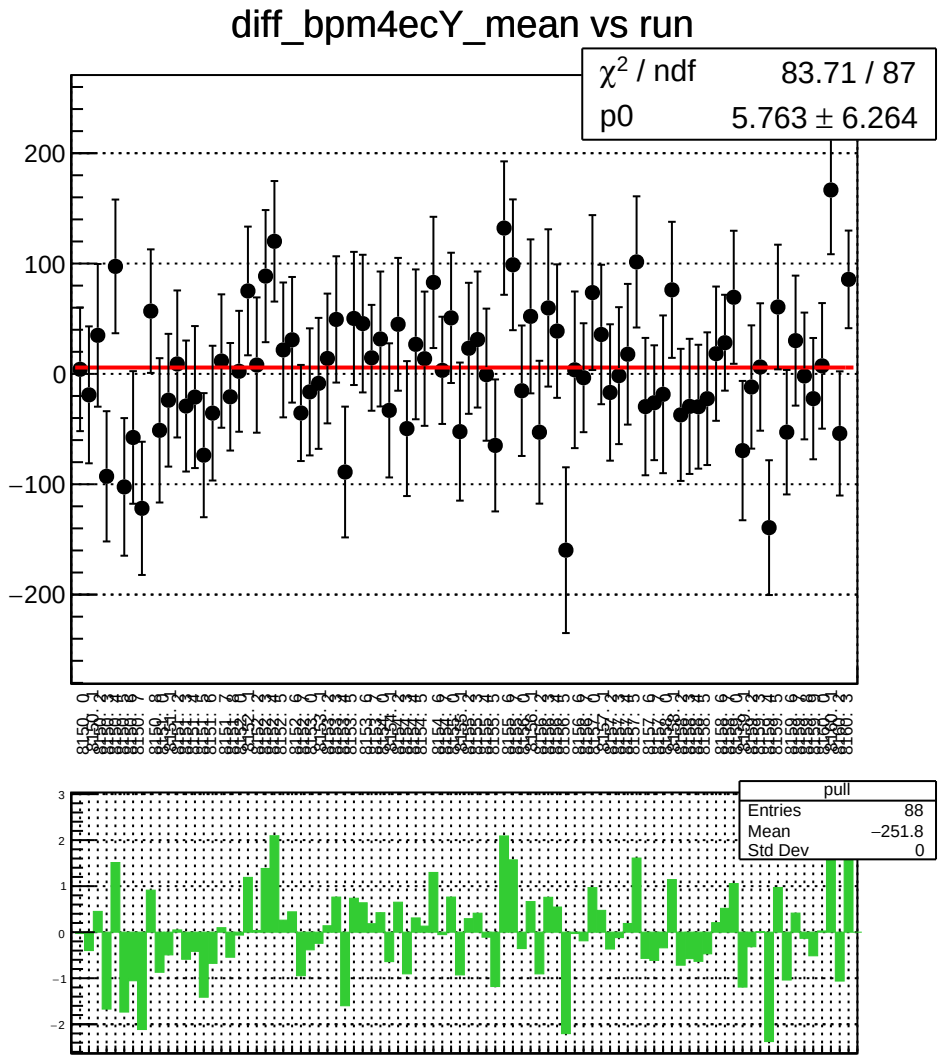

diff_bpm4acY_mean vs run
χ² / ndf 84.76 / 87
p0 3.731 ± 6.896
200
100
0
−100
−200
pull
Entries 88
Mean −243.3
Std Dev 0
2
1
0
−1
−2

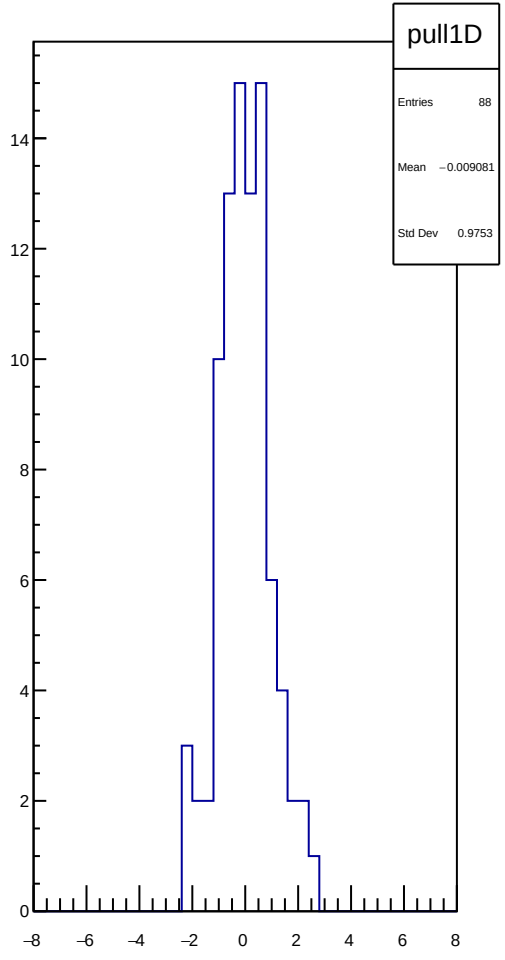

pull1D
Entries 88
Mean −0.01002
Std Dev 0.9814
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

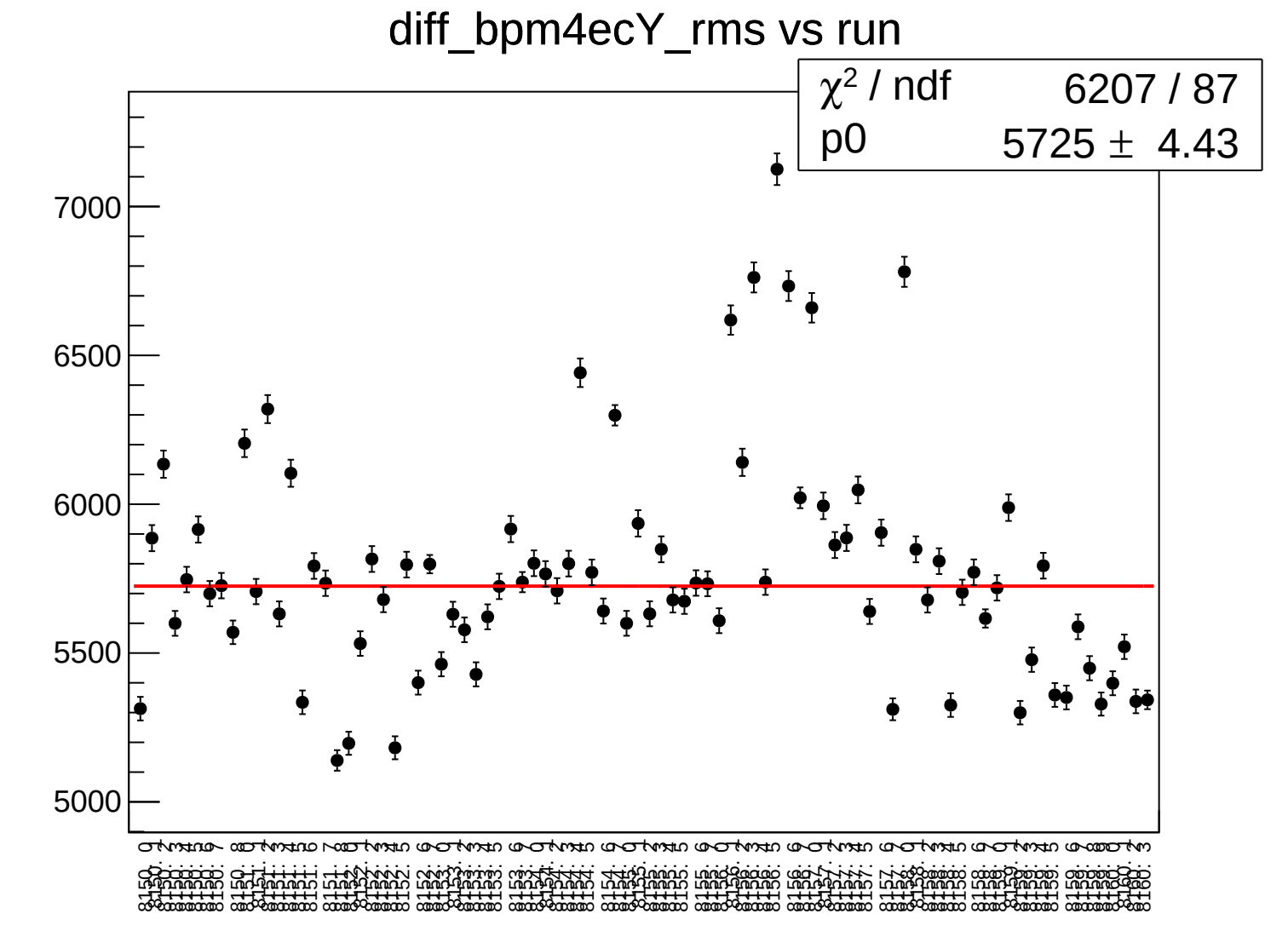

diff_bpm4acY_rms vs run
χ² / ndf 5769 / 87
p0 6303 ± 4.876
8000
7500
7000
6500
6000
5500

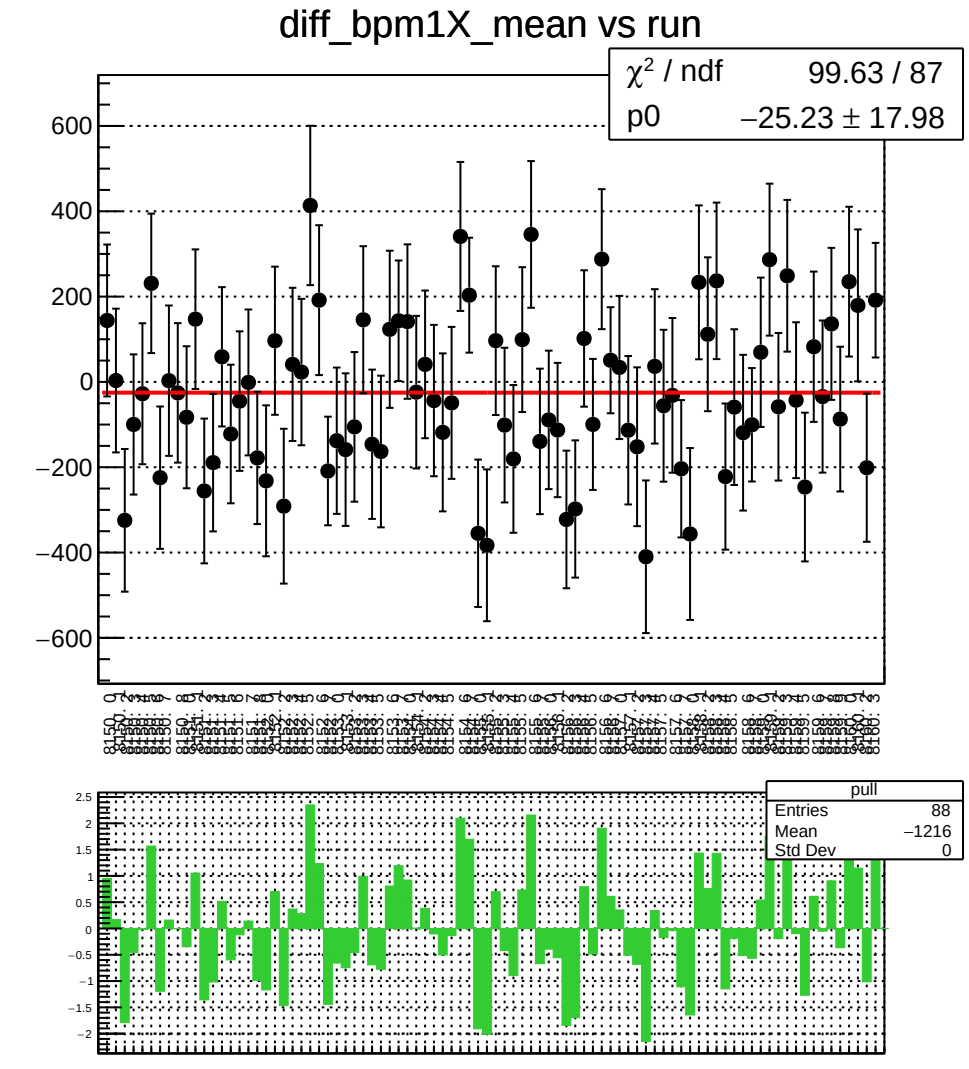

diff_bpm4ecX_mean vs run
χ^2 / ndf 101 / 87
p0 −23.44 ± 19.01
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean −1329
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002085
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

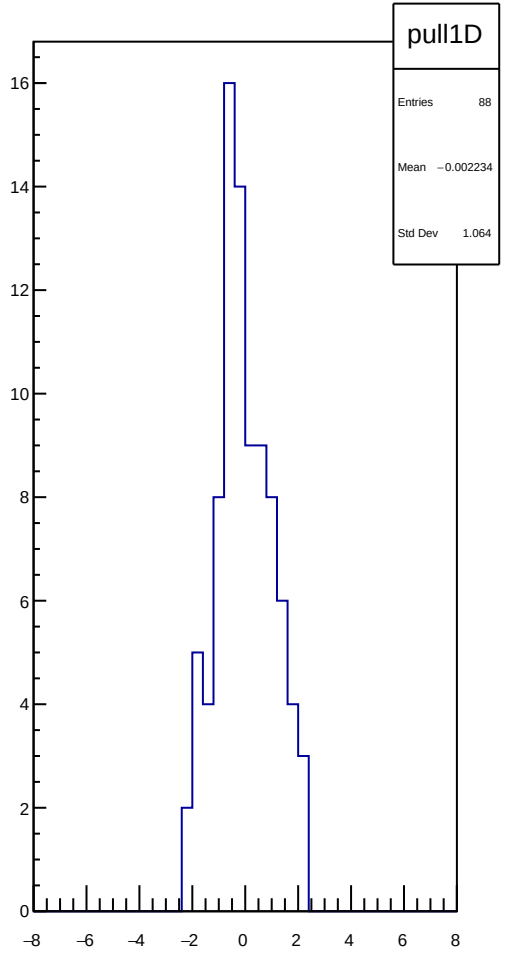

diff_bpm4ecX_rms vs run
χ² / ndf 3244 / 87
p0 1.738e+04 ± 13.44
20000
19000
18000
17000
16000
15000

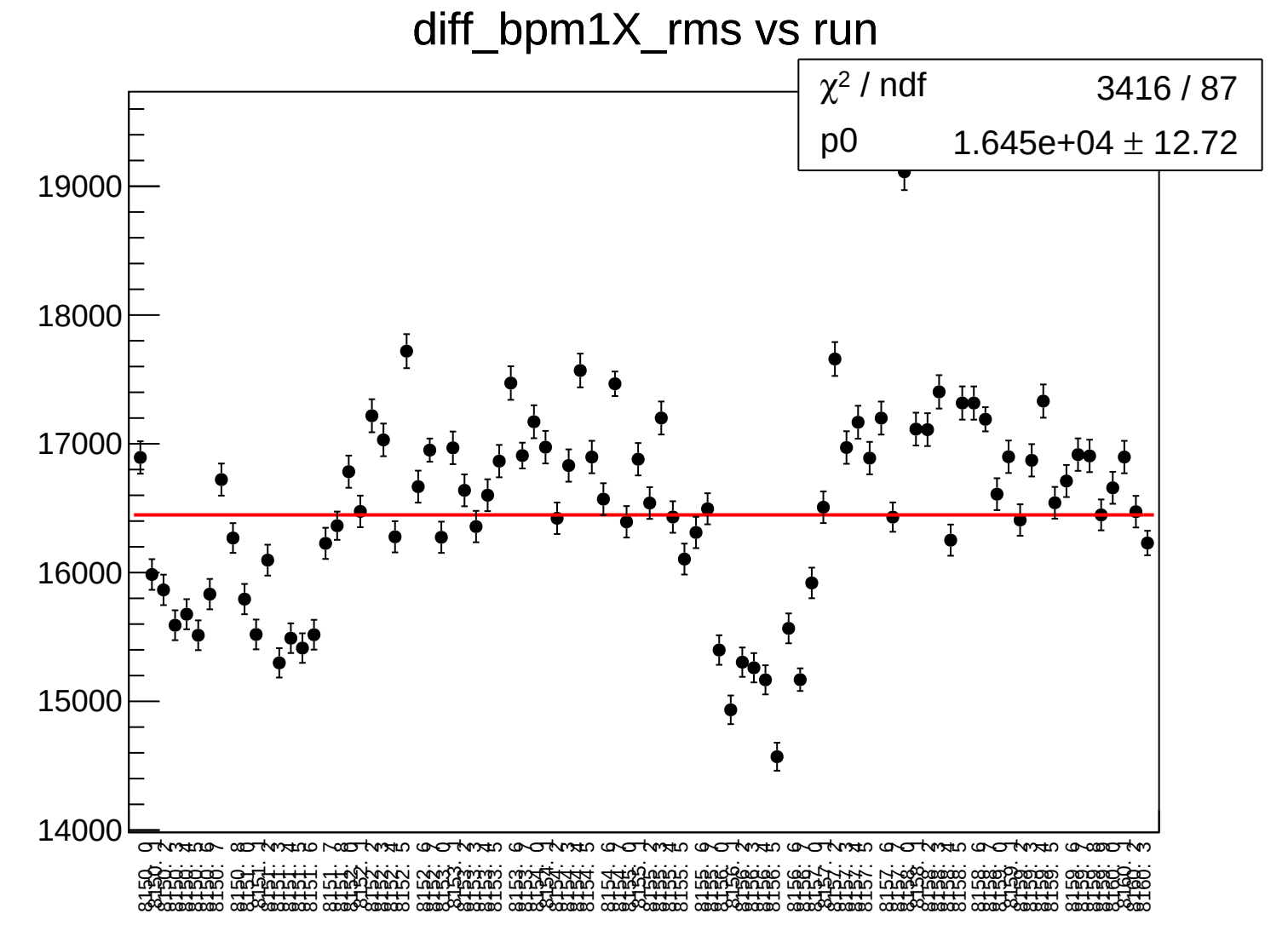

diff_bpm4ecY_mean vs run
χ² / ndf 83.71 / 87
p0 5.763 ± 6.264
200
100
0
−100
−200
pull
Entries 88
Mean −251.8
Std Dev 0
3
2
1
0
−1
−2

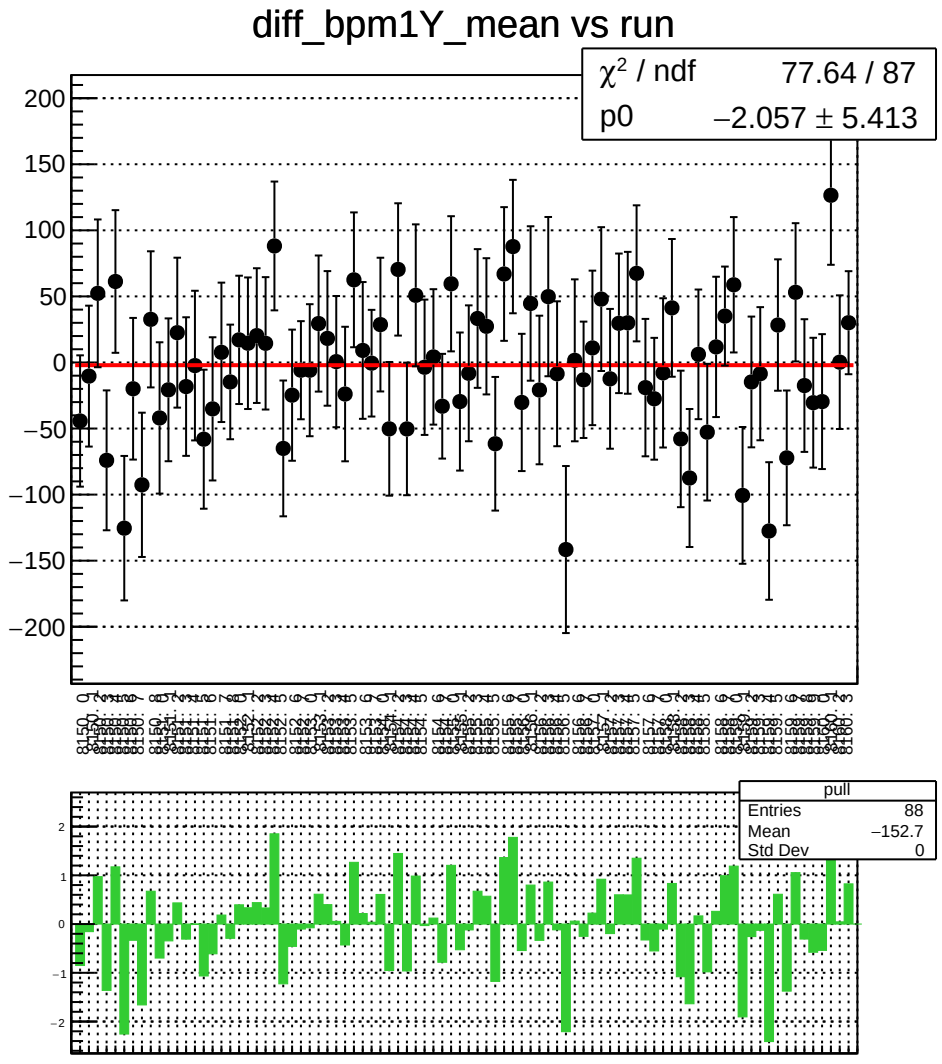

pull1D
Entries 88
Mean −0.009081
Std Dev 0.9753
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

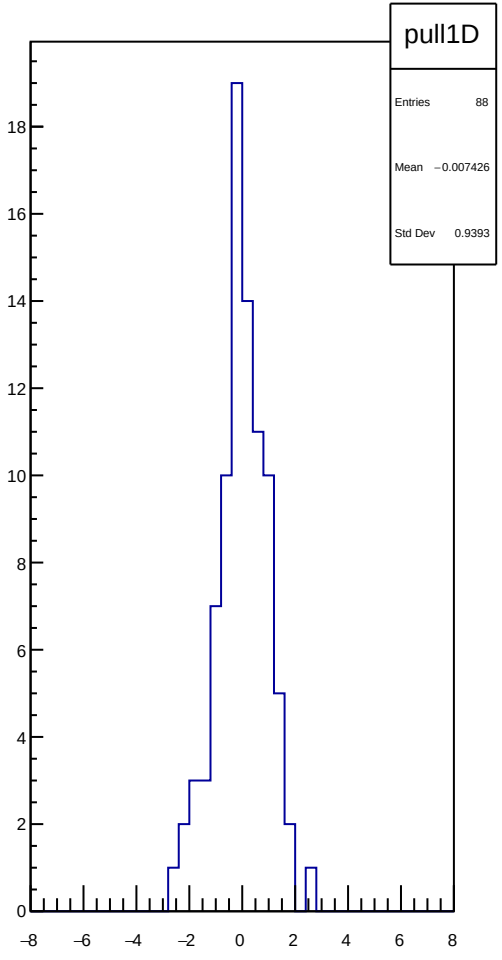

diff_bpm4ecY_rms vs run
χ² / ndf 6207 / 87
p0 5725 ± 4.43
7000
6500
6000
5500
5000

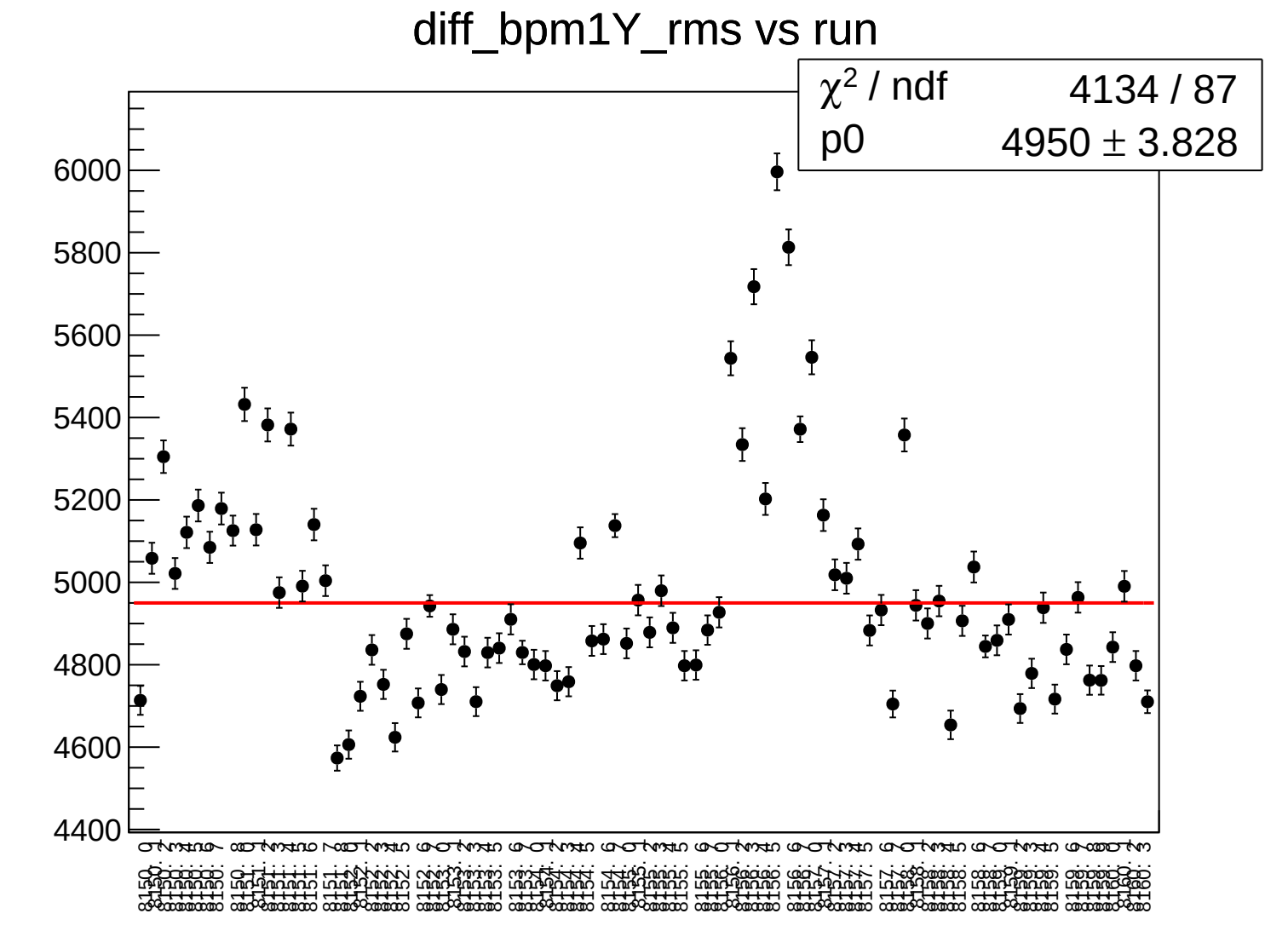

diff_bpm1X_mean vs run
χ² / ndf 99.63 / 87
p0 −25.23 ± 17.98
pull
Entries 88
Mean −1216
Std Dev 0

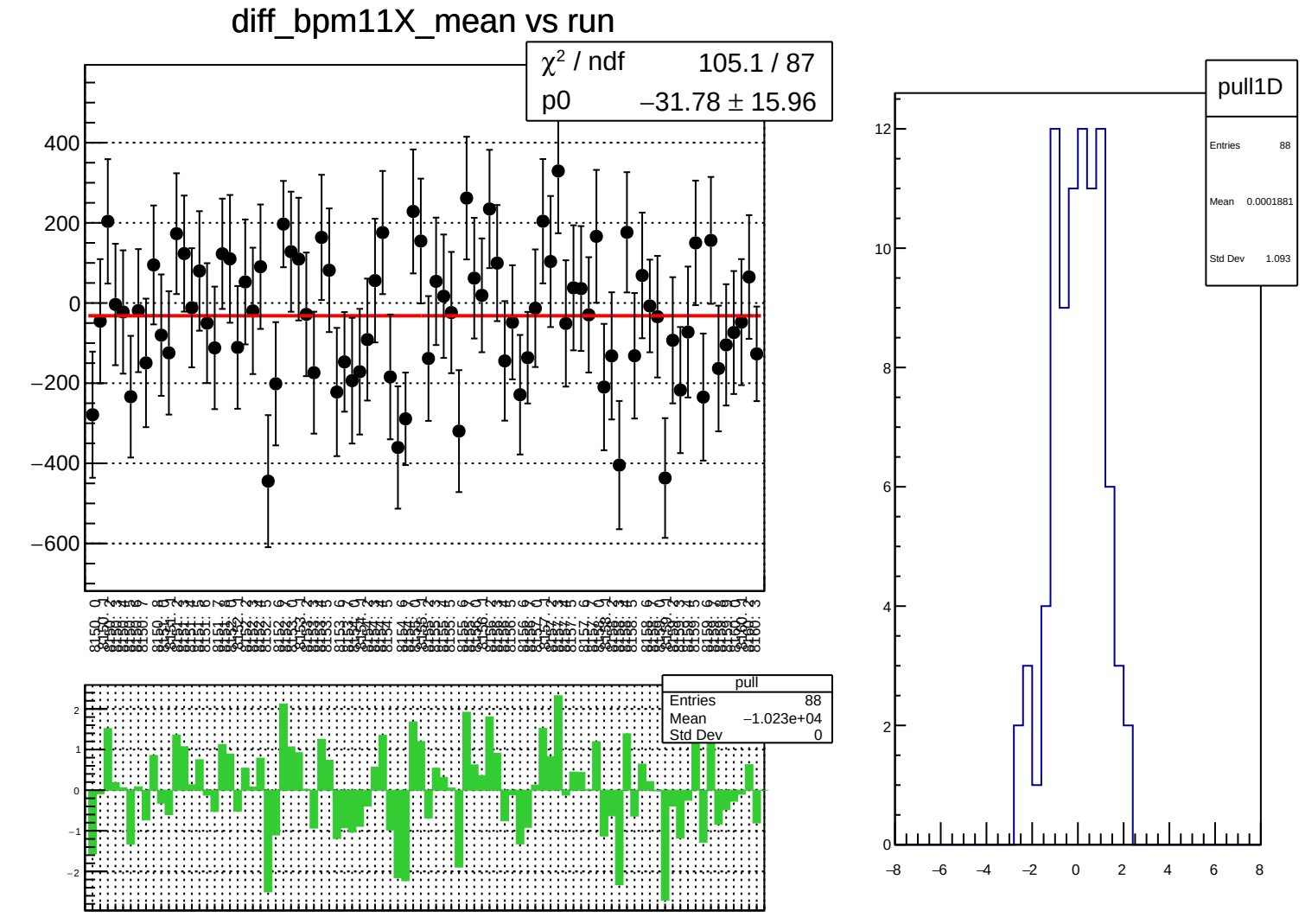

pull1D
Entries 88
Mean −0.002234
Std Dev 1.064

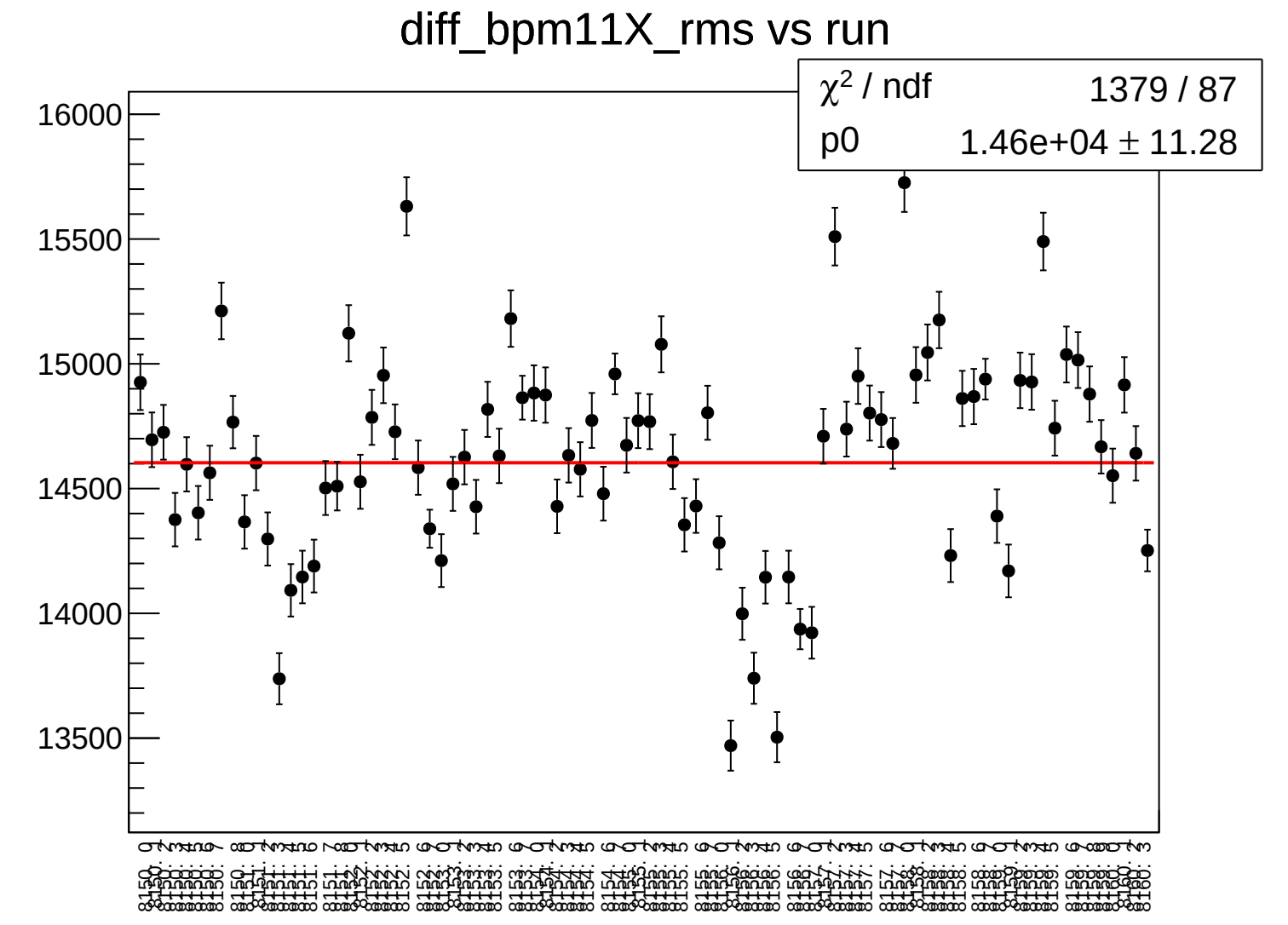

diff_bpm1X_rms vs run
χ² / ndf 3416 / 87
p0 1.645e+04 ± 12.72
19000
18000
17000
16000
15000
14000

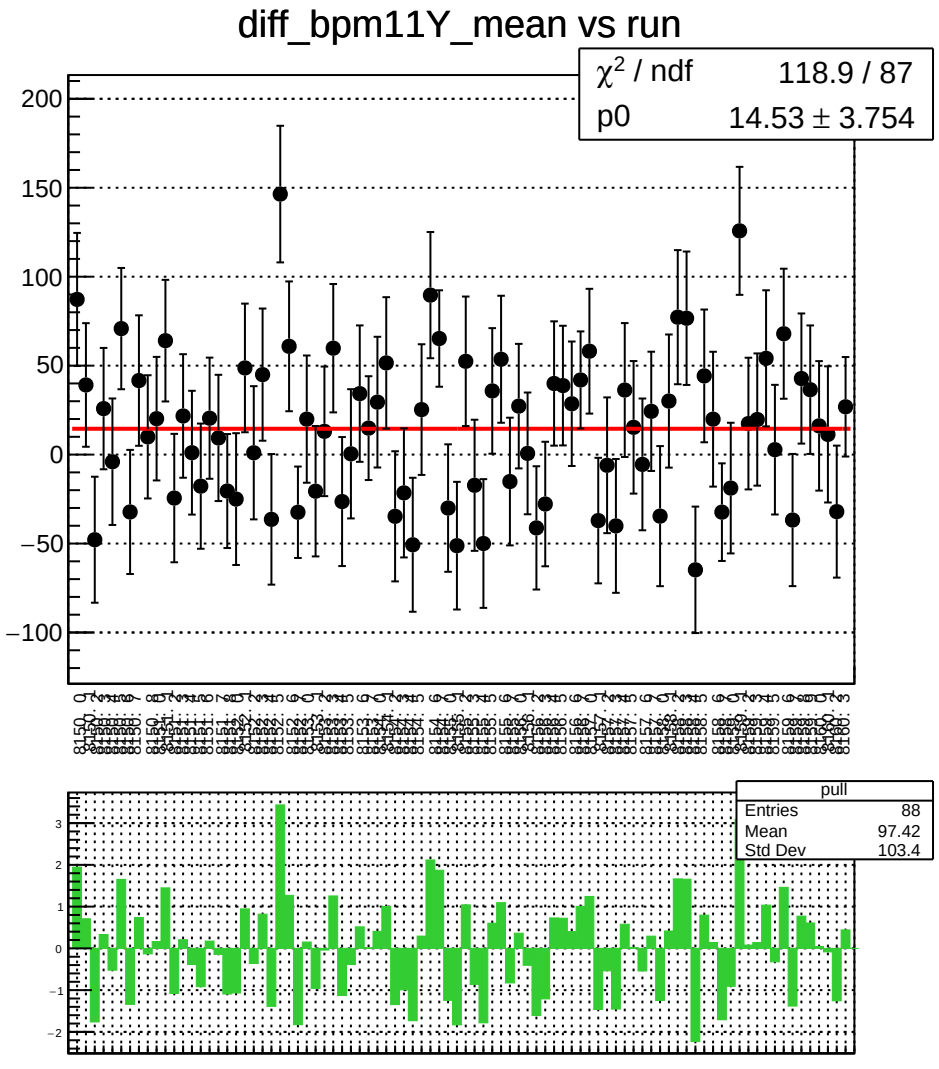

diff_bpm1Y_mean vs run
χ^2 / ndf 77.64 / 87
p0 −2.057 ± 5.413
pull
Entries 88
Mean −152.7
Std Dev 0

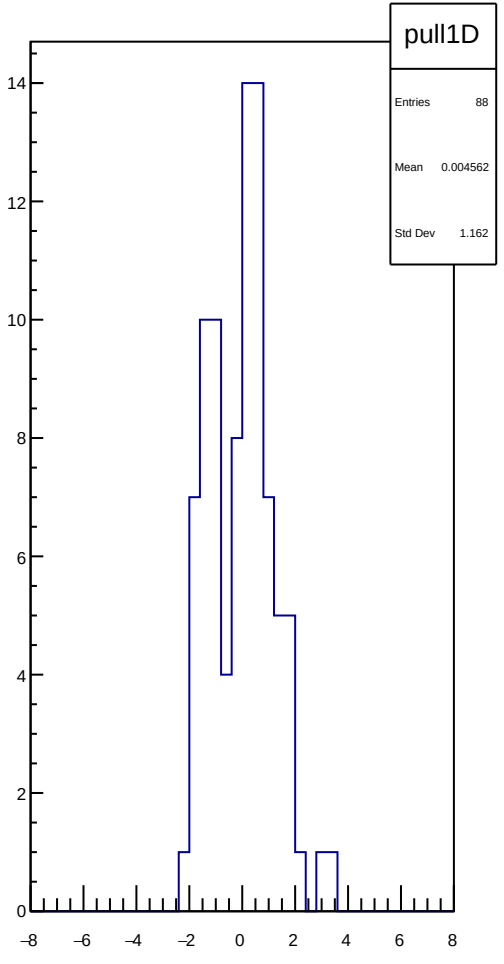

pull1D
Entries 88
Mean −0.007426
Std Dev 0.9393

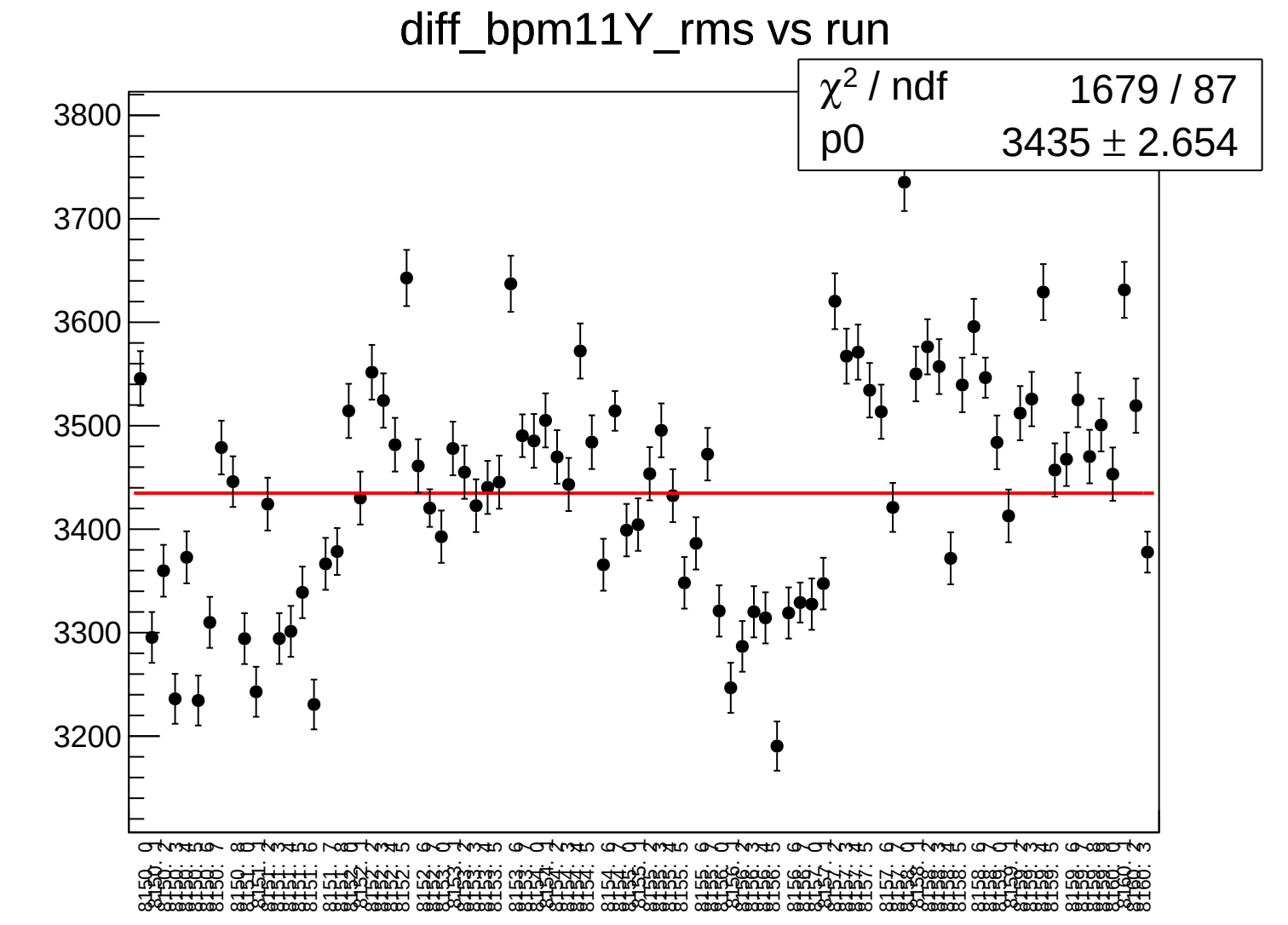

diff_bpm1Y_rms vs run
χ² / ndf 4134 / 87
p0 4950 ± 3.828
6000
5800
5600
5400
5200
5000
4800
4600
4400

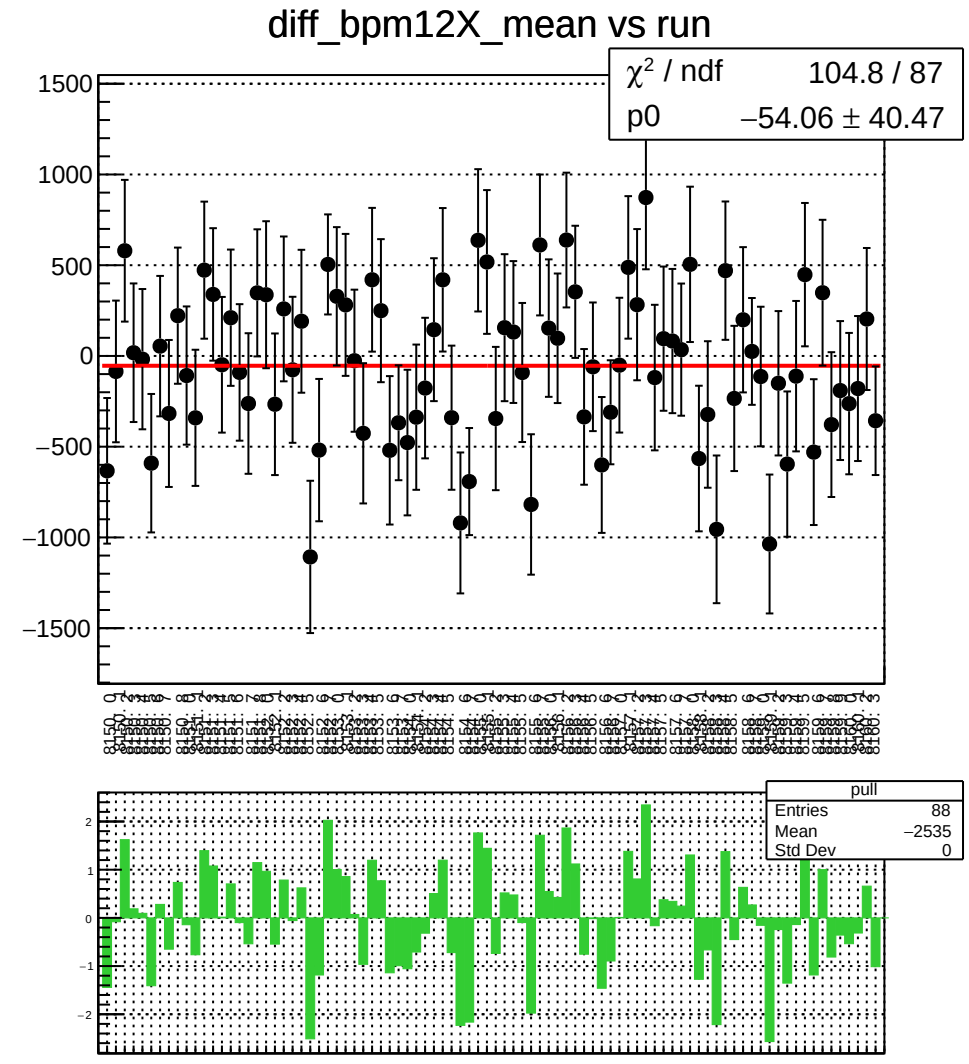

diff_bpm11X_mean vs run
χ² / ndf 105.1 / 87
p0 −31.78 ± 15.96
400
200
0
−200
−400
−600
pull
Entries 88
Mean −1.023e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0001881
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

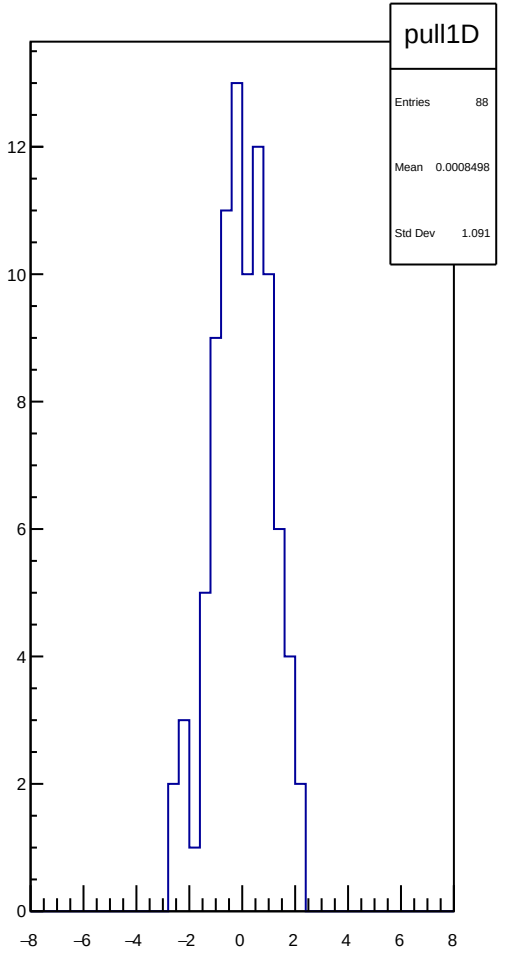

diff_bpm11X_rms vs run
χ² / ndf 1379 / 87
p0 1.46e+04 ± 11.28
16000
15500
15000
14500
14000
13500

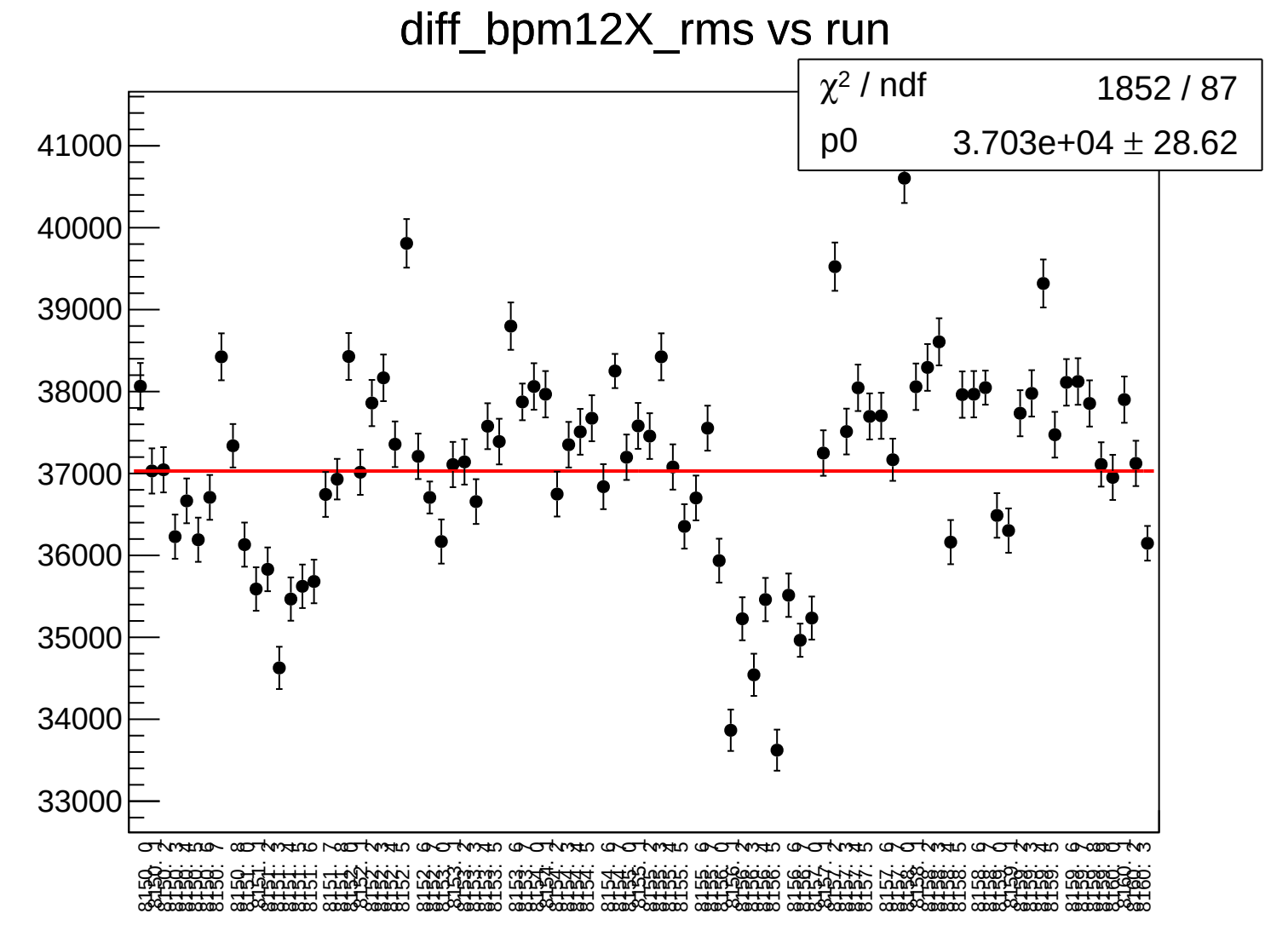

diff_bpm11Y_mean vs run
χ² / ndf 118.9 / 87
p0 14.53 ± 3.754
200
150
100
50
0
−50
−100
pull
Entries 88
Mean 97.42
Std Dev 103.4
3
2
1
0
−1
−2

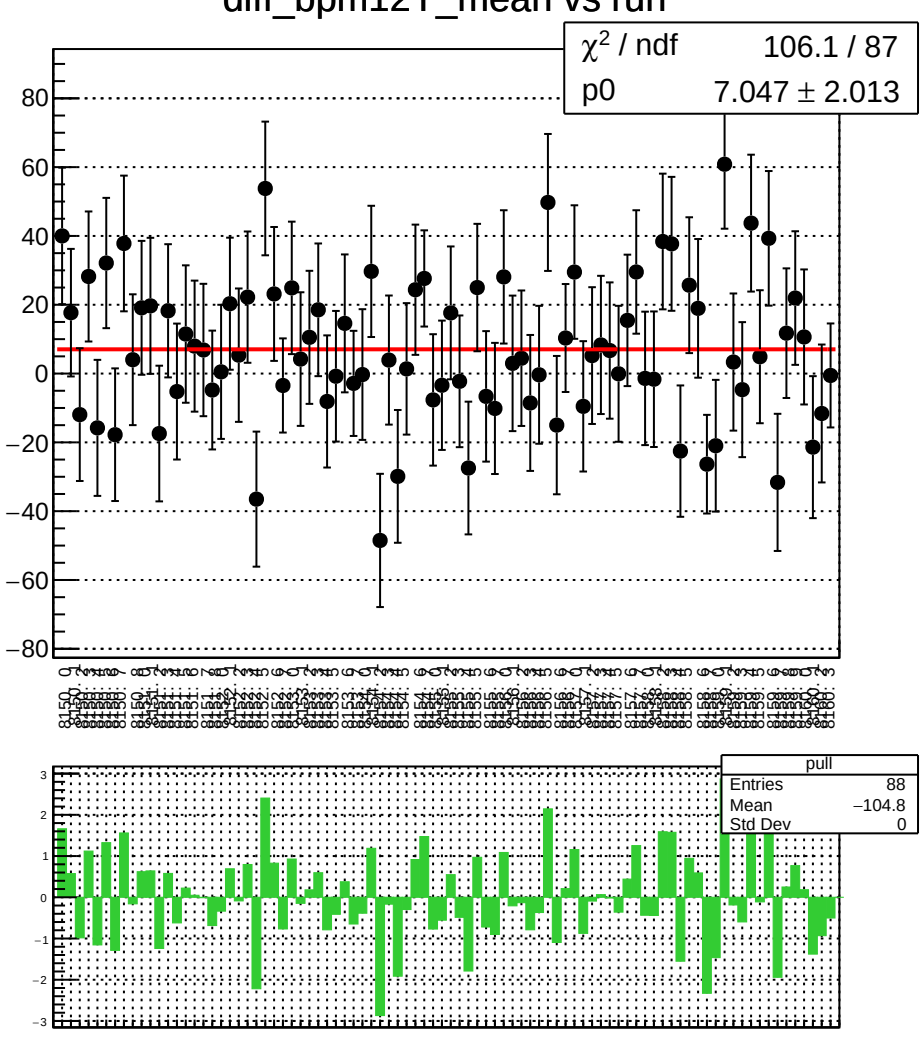

pull1D
Entries 88
Mean 0.004562
Std Dev 1.162
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

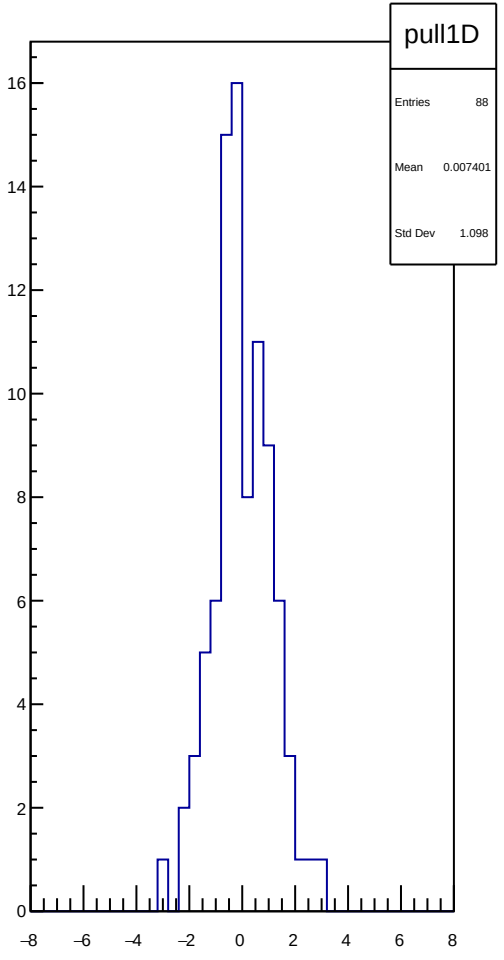

diff_bpm11Y_rms vs run
χ² / ndf 1679 / 87
p0 3435 ± 2.654
3800
3700
3600
3500
3400
3300
3200

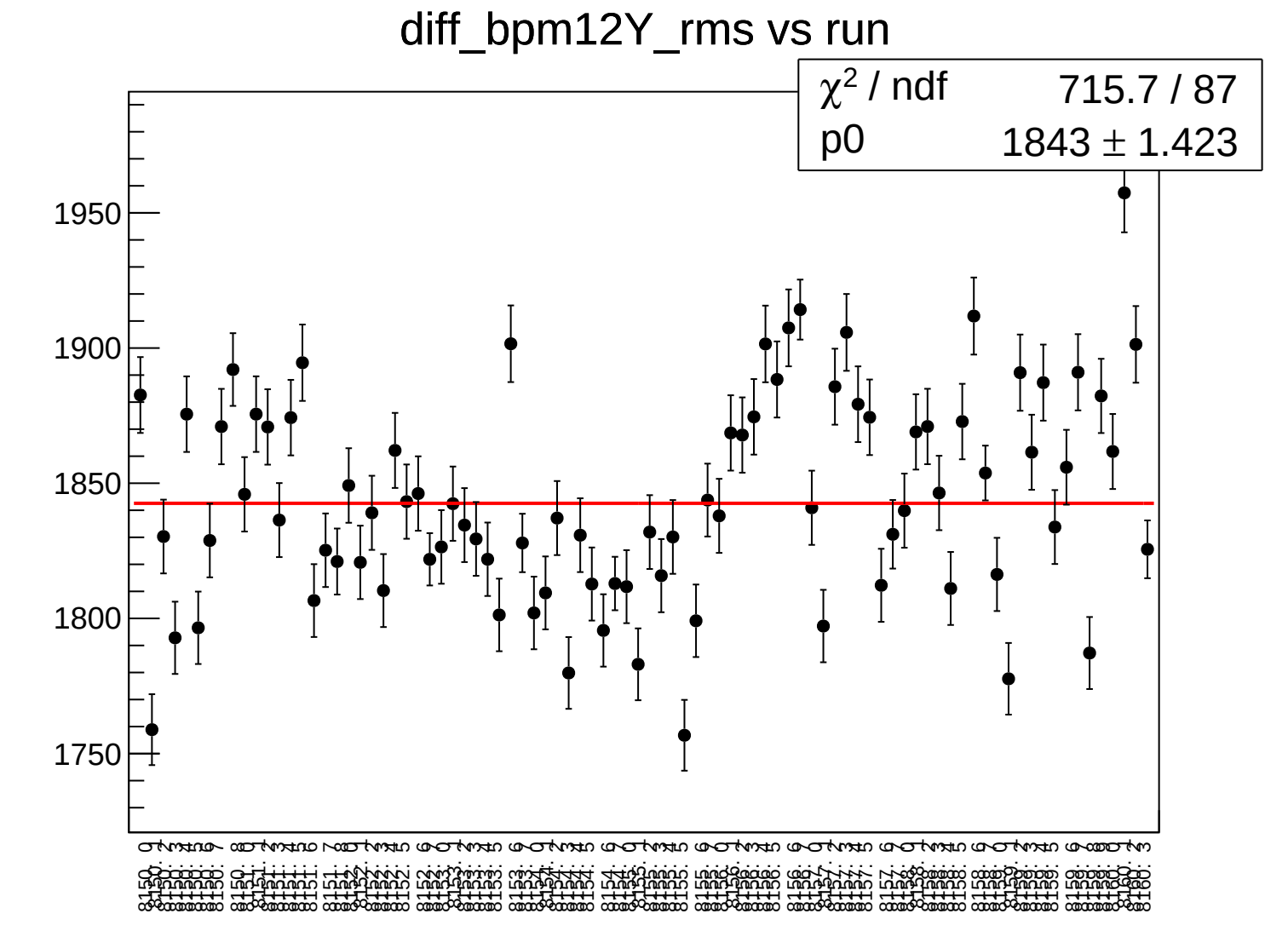

diff_bpm12X_mean vs run
χ² / ndf 104.8 / 87
p0 −54.06 ± 40.47
pull
Entries 88
Mean −2535
Std Dev 0

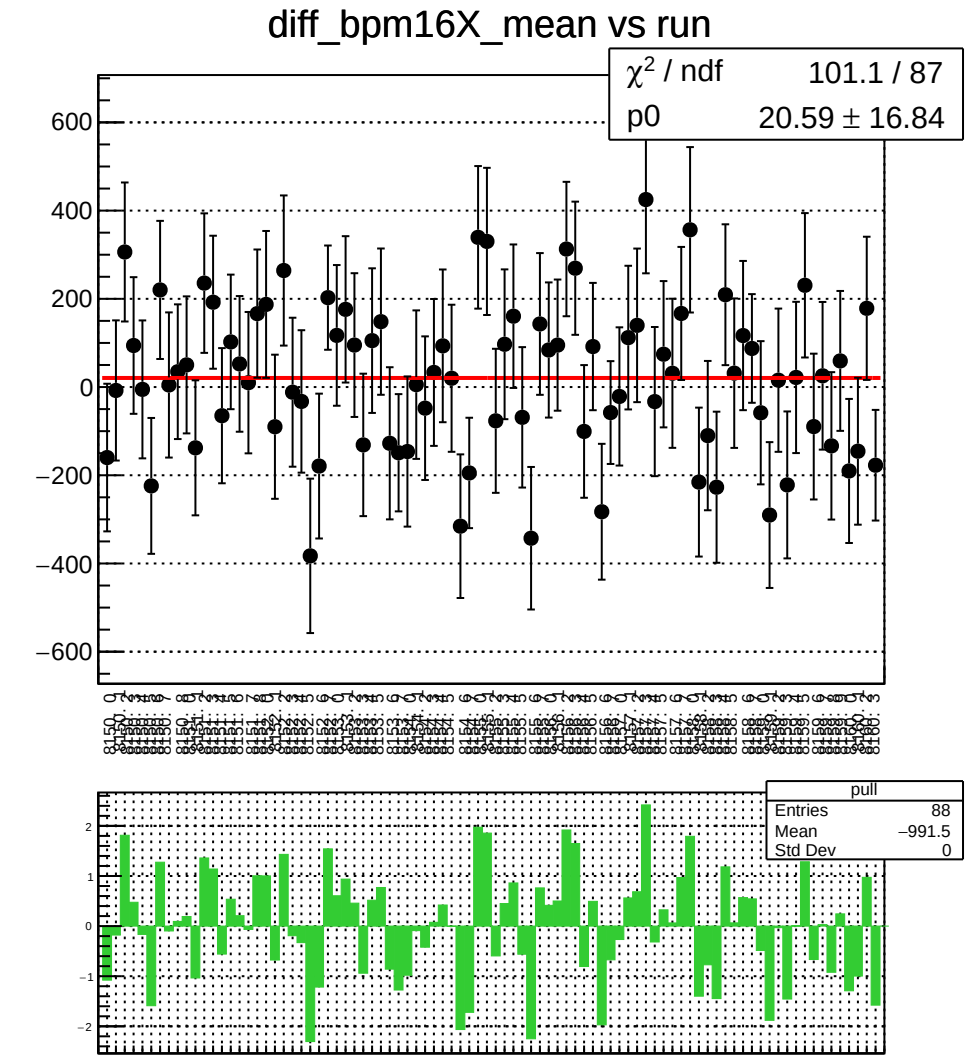

pull1D
Entries 88
Mean 0.0008498
Std Dev 1.091

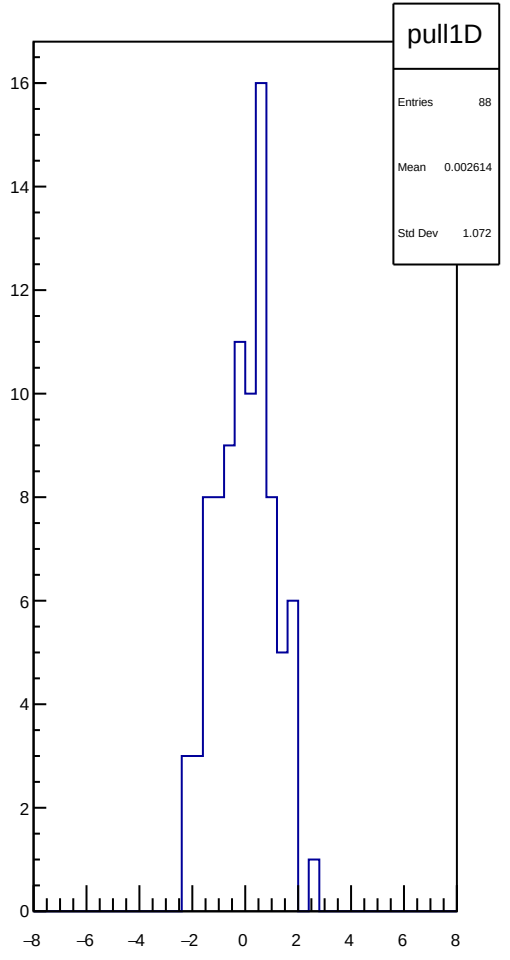

diff_bpm12X_rms vs run
χ² / ndf 1852 / 87
p0 3.703e+04 ± 28.62
41000
40000
39000
38000
37000
36000
35000
34000
33000

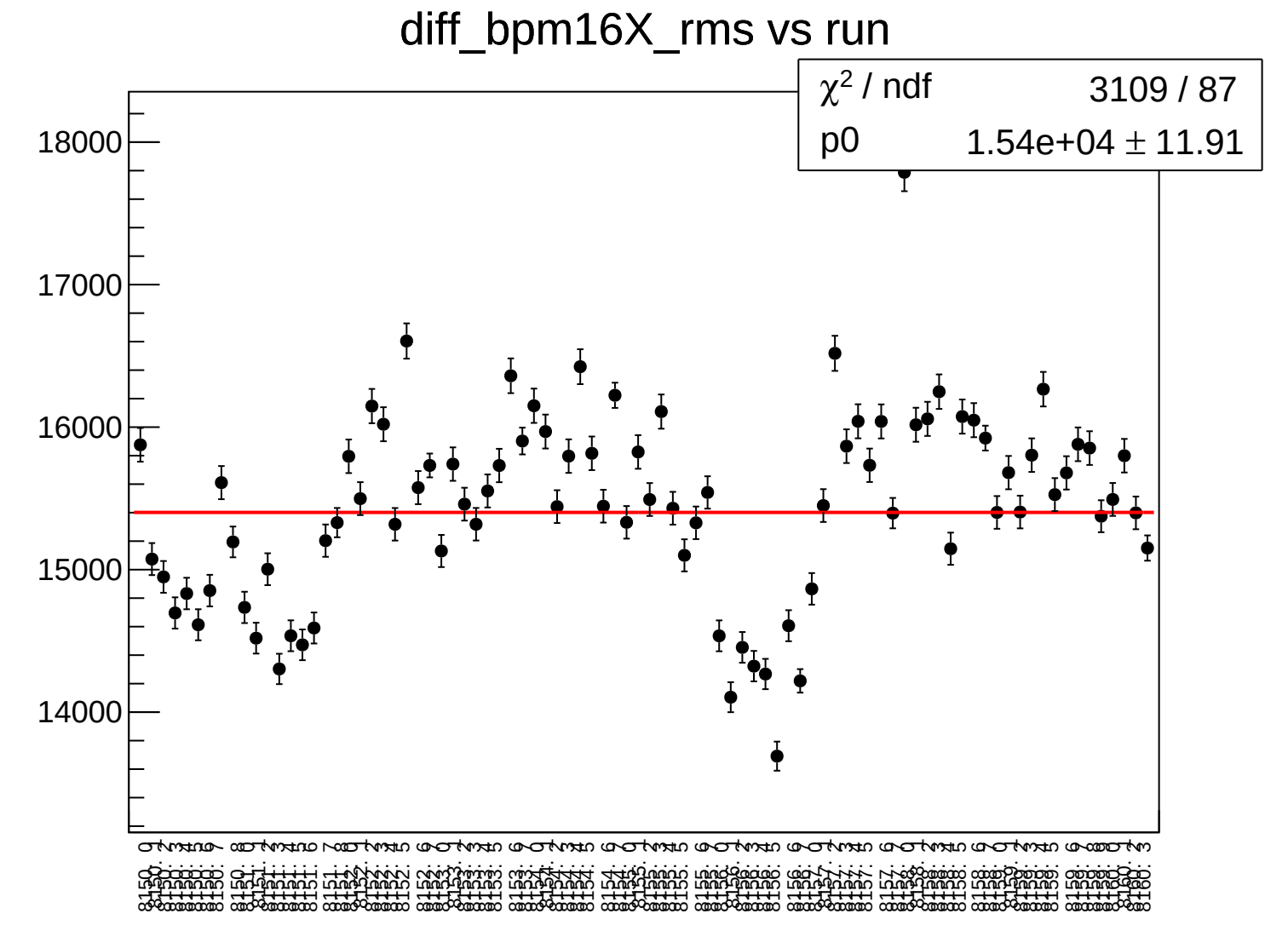

diff_bpm12Y_mean vs run
χ² / ndf 106.1 / 87
p0 7.047 ± 2.013
pull
Entries 88
Mean −104.8
Std Dev 0

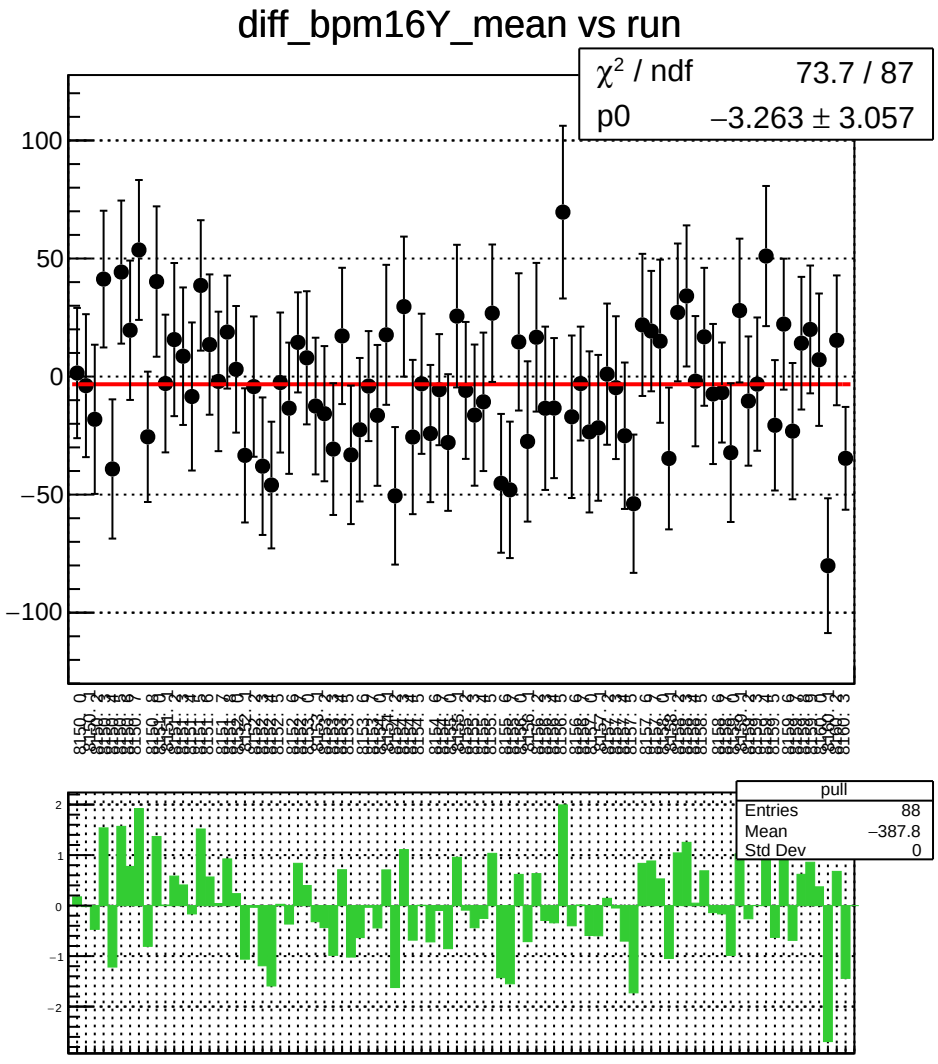

pull1D
Entries 88
Mean 0.007401
Std Dev 1.098

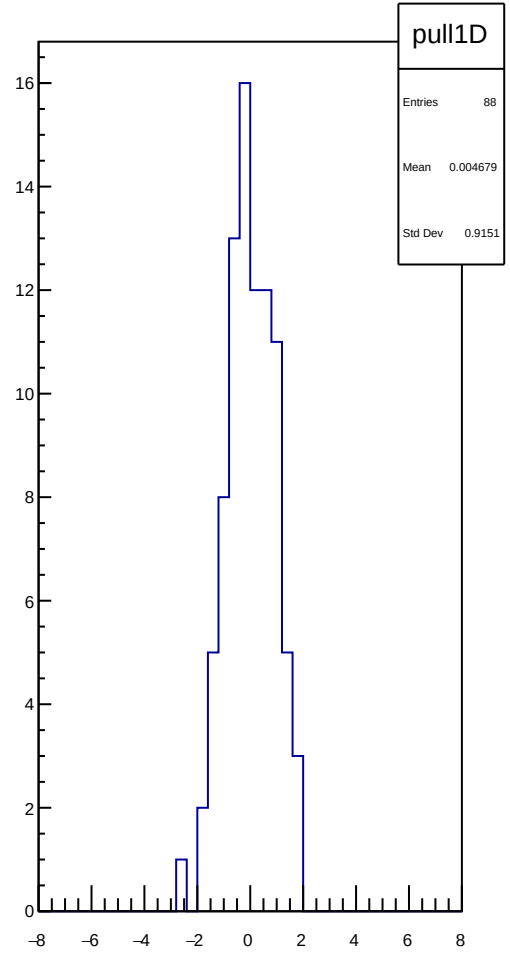

diff_bpm12Y_rms vs run
χ² / ndf 715.7 / 87
p0 1843 ± 1.423
1950
1900
1850
1800
1750

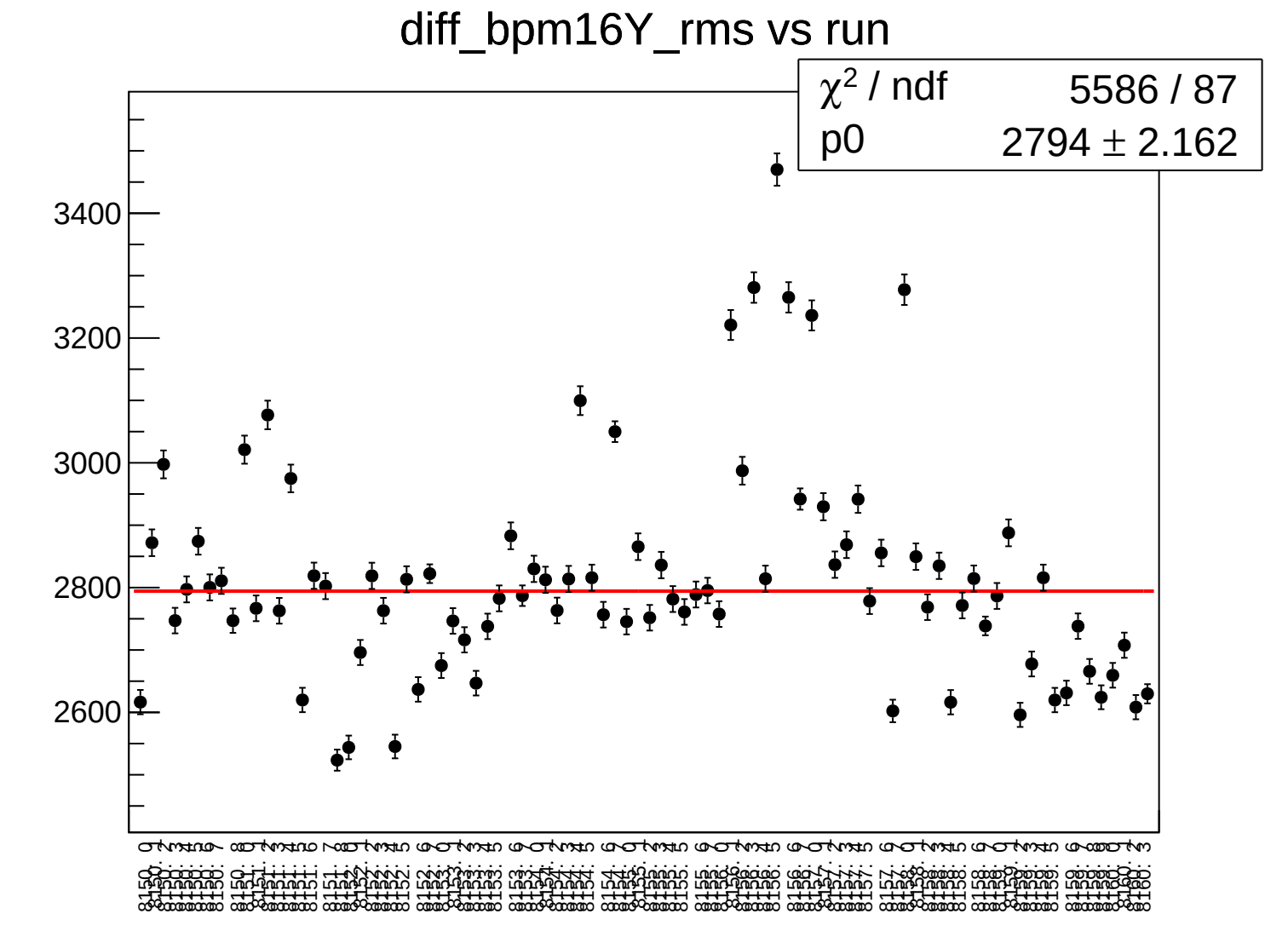

diff_bpm16X_mean vs run
χ² / ndf 101.1 / 87
p0 20.59 ± 16.84
pull
Entries 88
Mean −991.5
Std Dev 0

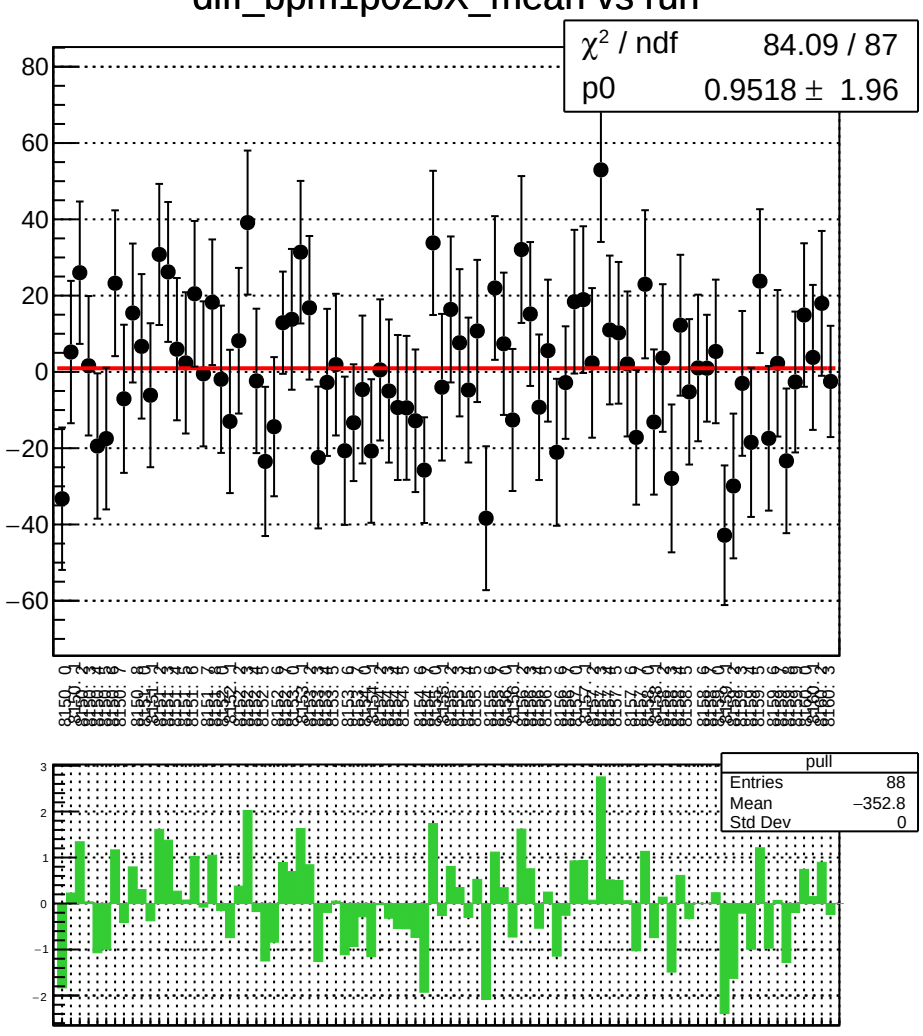

pull1D
Entries 88
Mean 0.002614
Std Dev 1.072

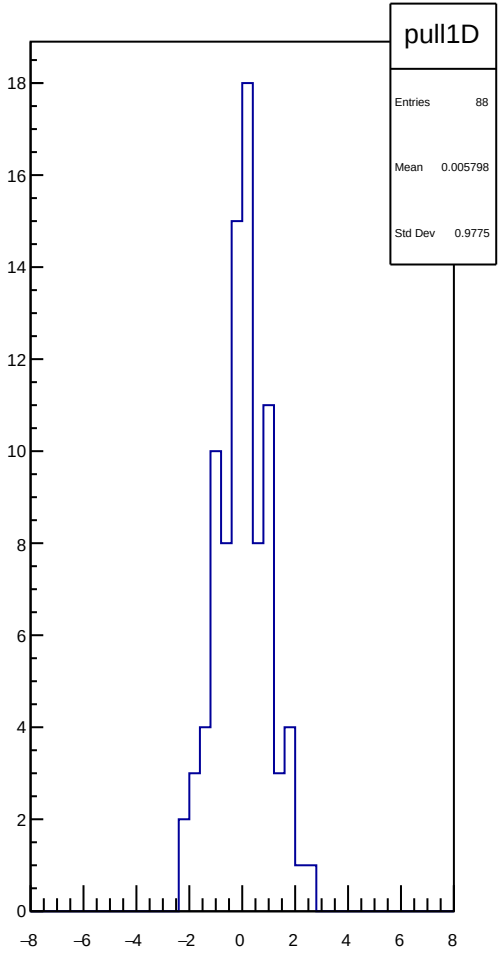

diff_bpm16X_rms vs run
χ² / ndf 3109 / 87
p0 1.54e+04 ± 11.91
18000
17000
16000
15000
14000

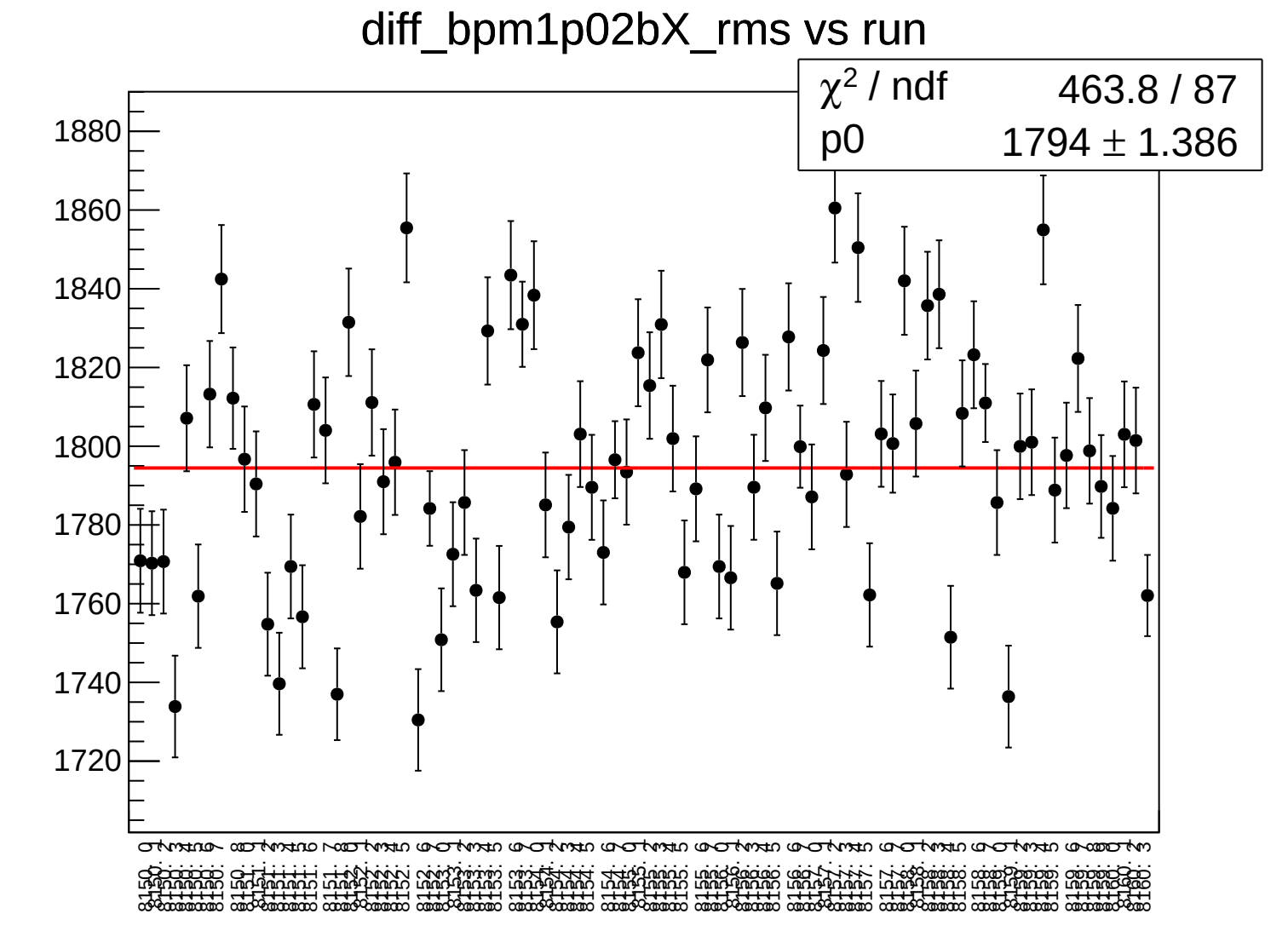

diff_bpm16Y_mean vs run
χ² / ndf 73.7 / 87
p0 −3.263 ± 3.057
pull
Entries 88
Mean −387.8
Std Dev 0

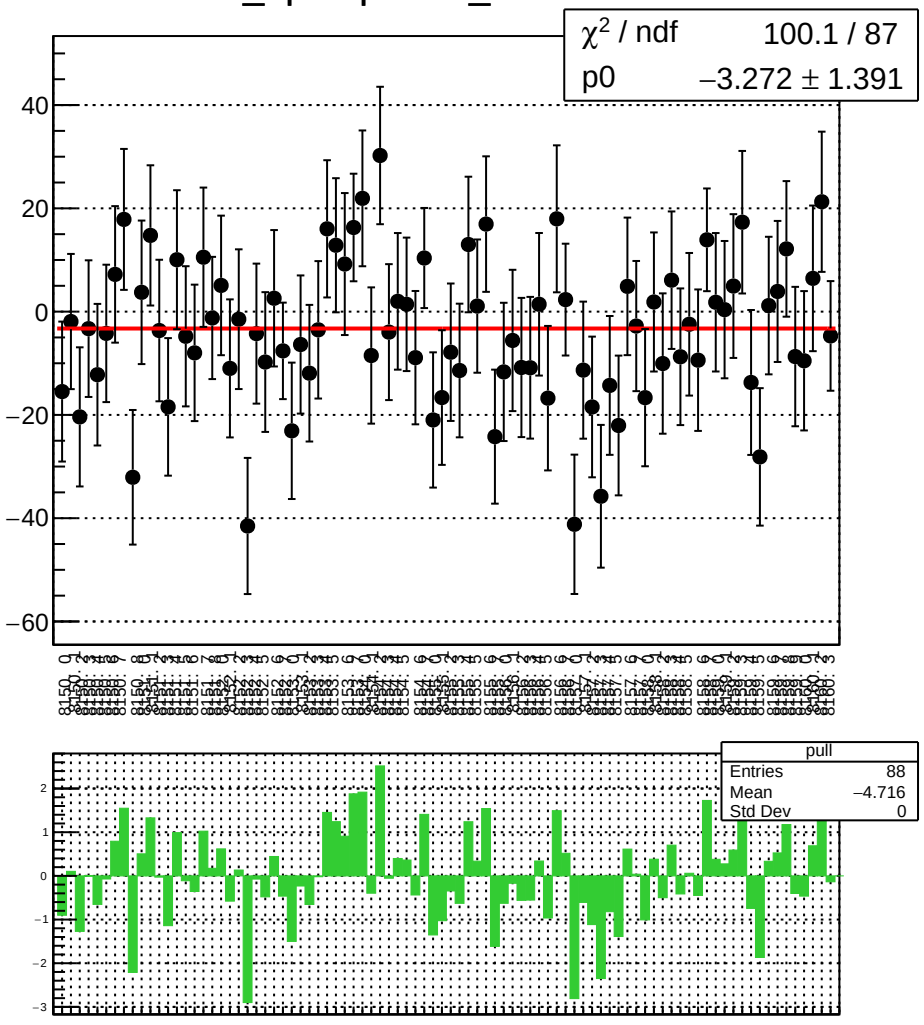

pull1D
Entries 88
Mean 0.004679
Std Dev 0.9151

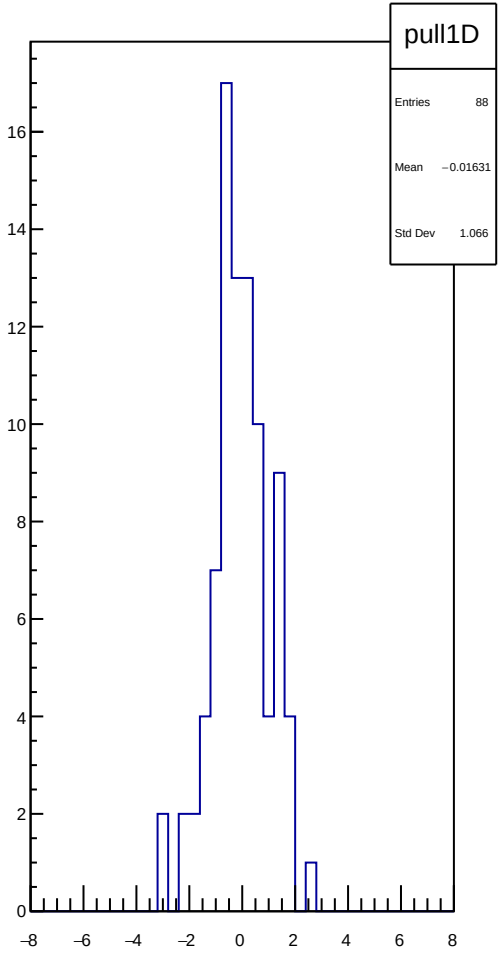

diff_bpm16Y_rms vs run
χ² / ndf 5586 / 87
p0 2794 ± 2.162
3400
3200
3000
2800
2600

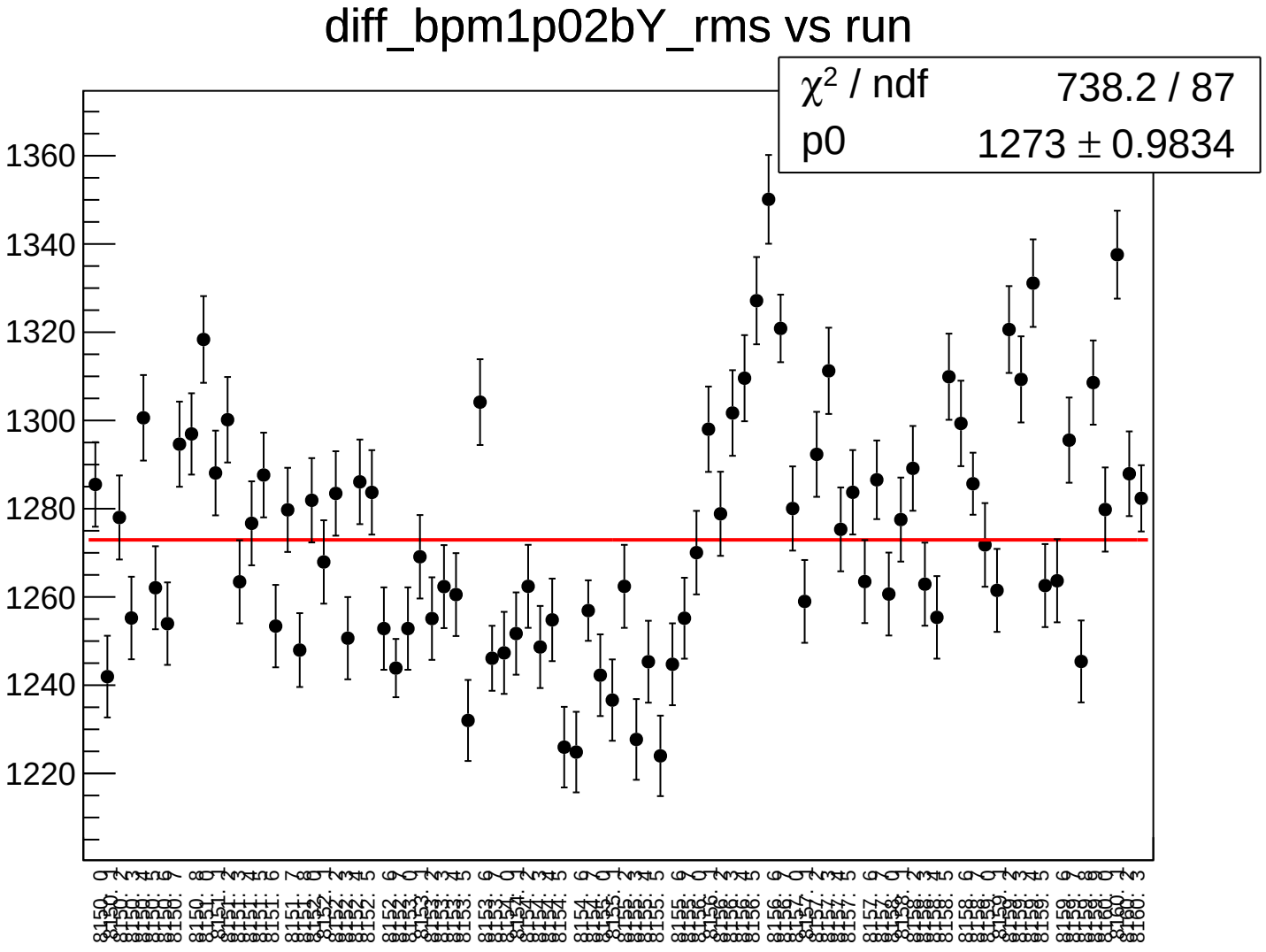

diff_bpm1p02bX_mean vs run
χ² / ndf 84.09 / 87
p0 0.9518 ± 1.96
pull
Entries 88
Mean −352.8
Std Dev 0

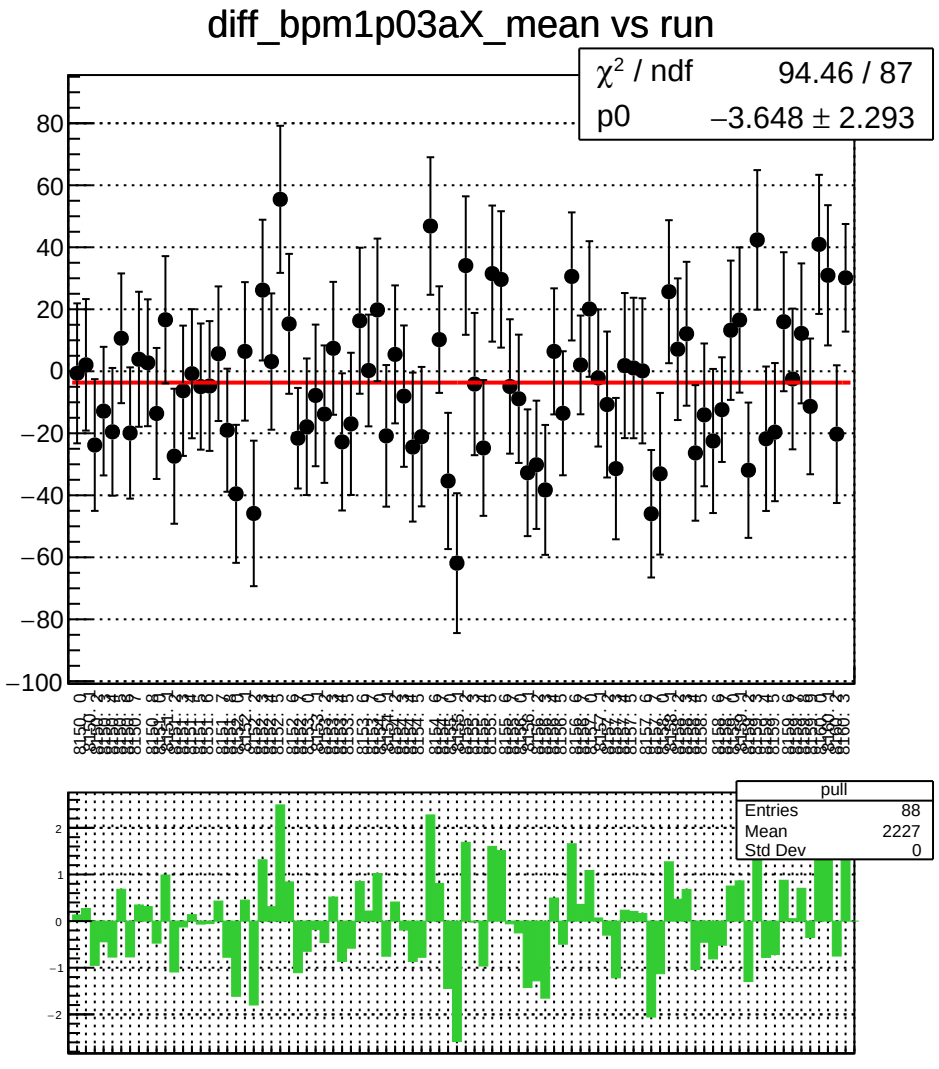

pull1D
Entries 88
Mean 0.005798
Std Dev 0.9775

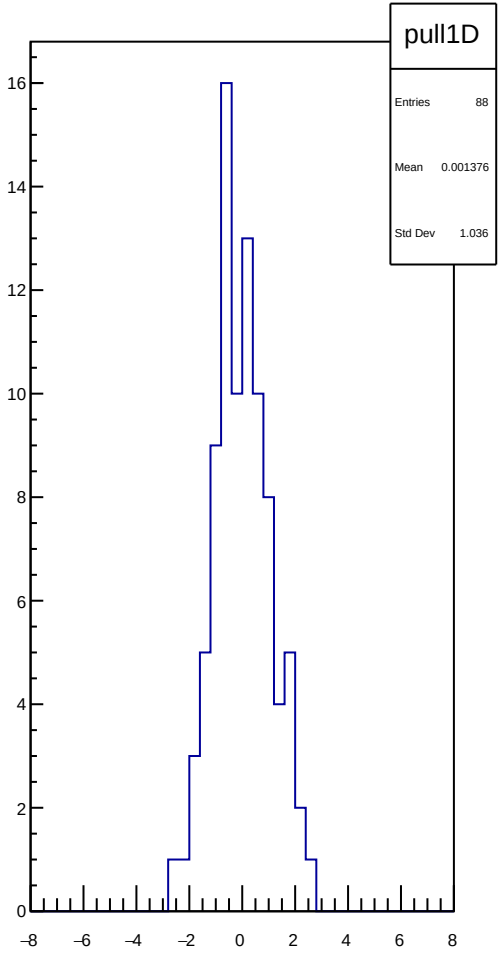

diff_bpm1p02bX_rms vs run
χ² / ndf 463.8 / 87
p0 1794 ± 1.386
1880
1860
1840
1820
1800
1780
1760
1740
1720

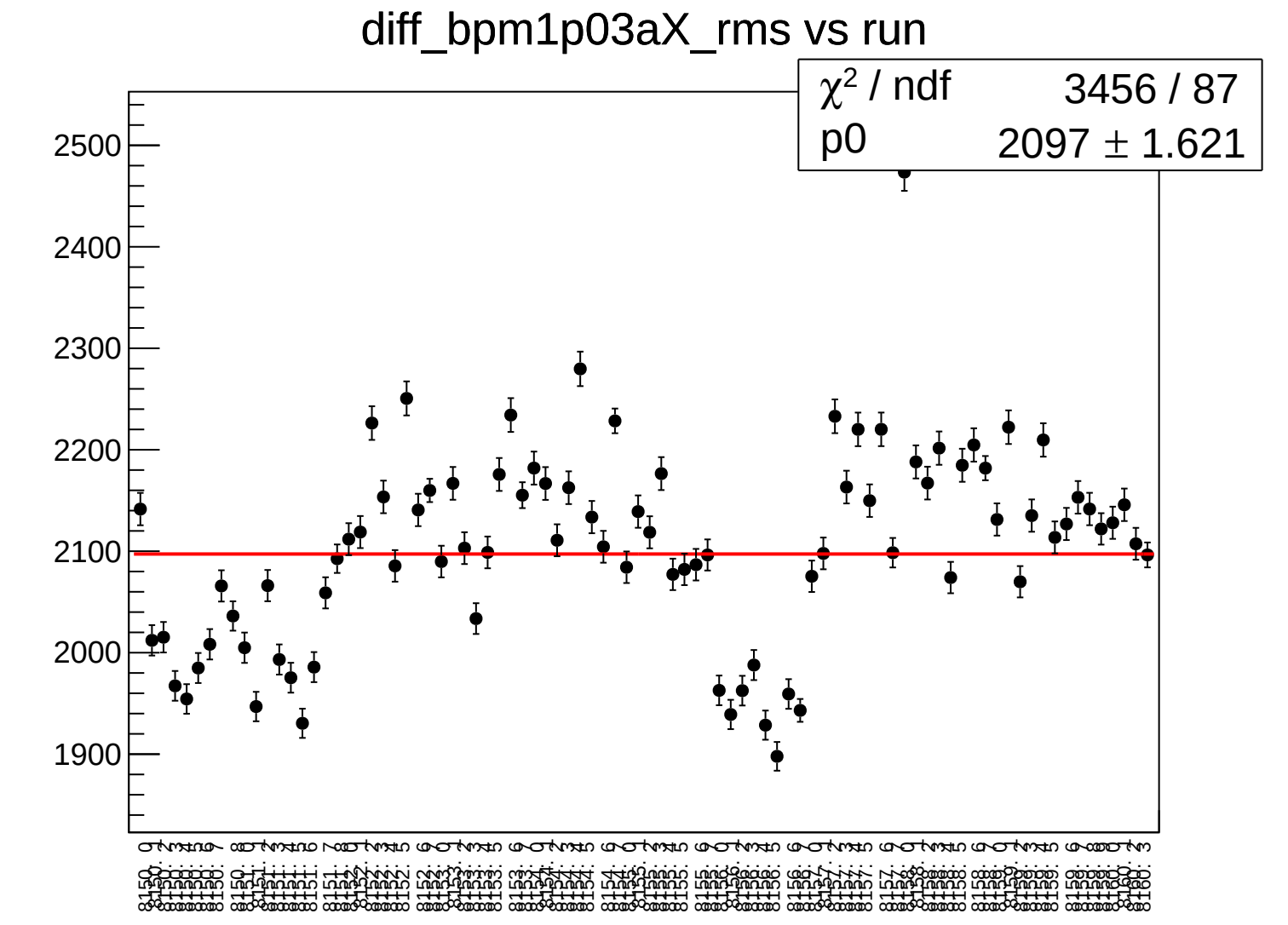

diff_bpm1p02bY_mean vs run
χ² / ndf 100.1 / 87
p0 −3.272 ± 1.391
pull
Entries 88
Mean −4.716
Std Dev 0

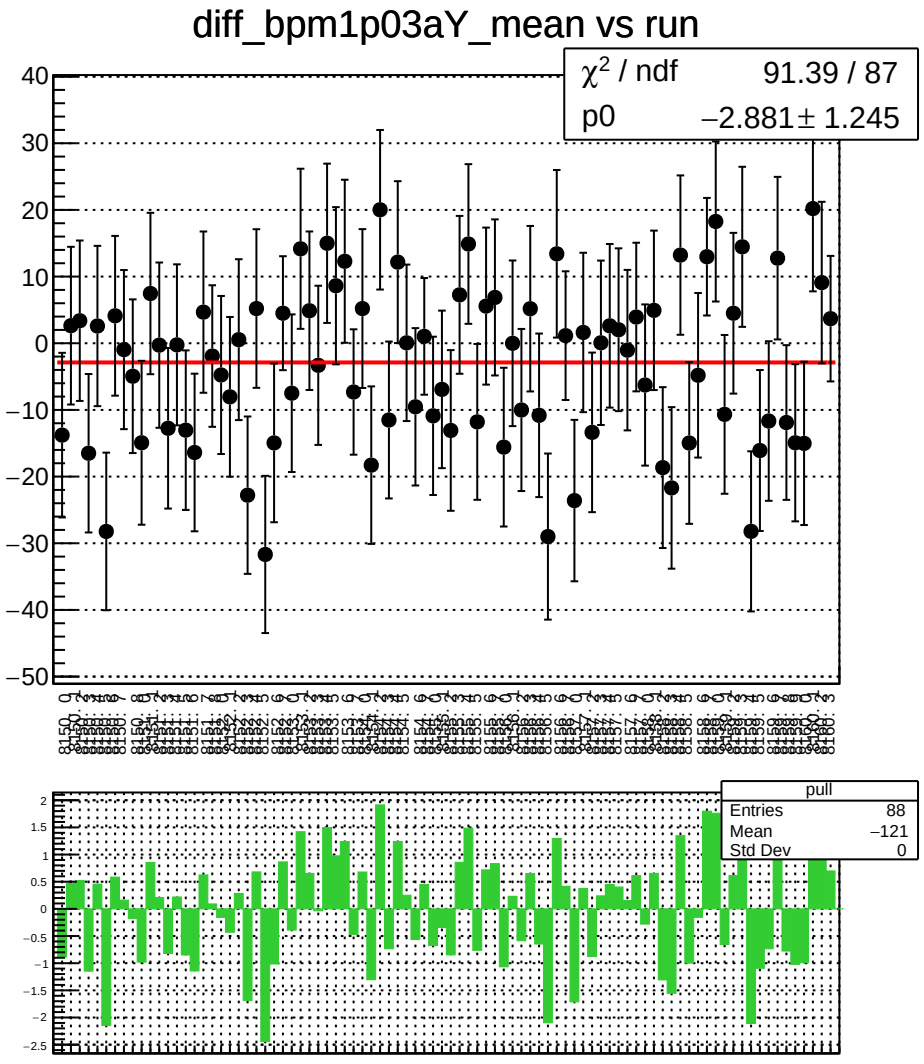

pull1D
Entries 88
Mean −0.01631
Std Dev 1.066

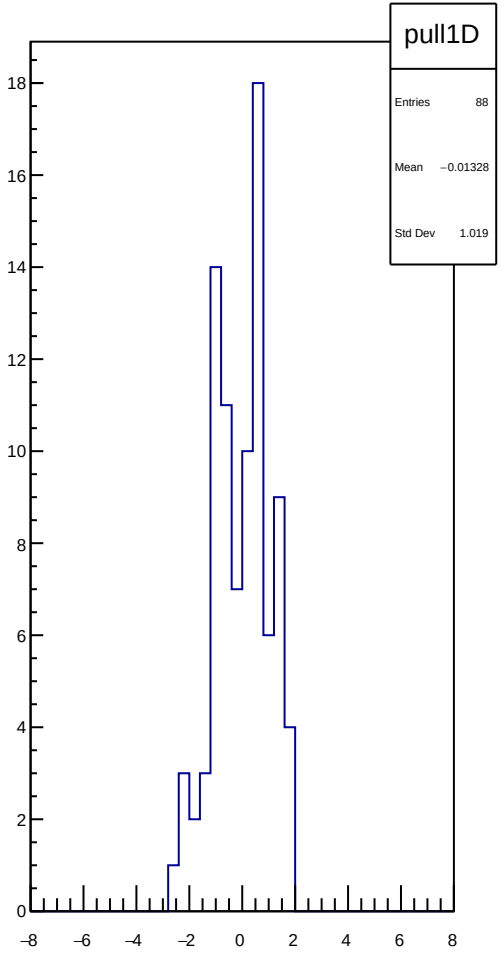

diff_bpm1p02bY_rms vs run
χ² / ndf 738.2 / 87
p0 1273 ± 0.9834
1360
1340
1320
1300
1280
1260
1240
1220

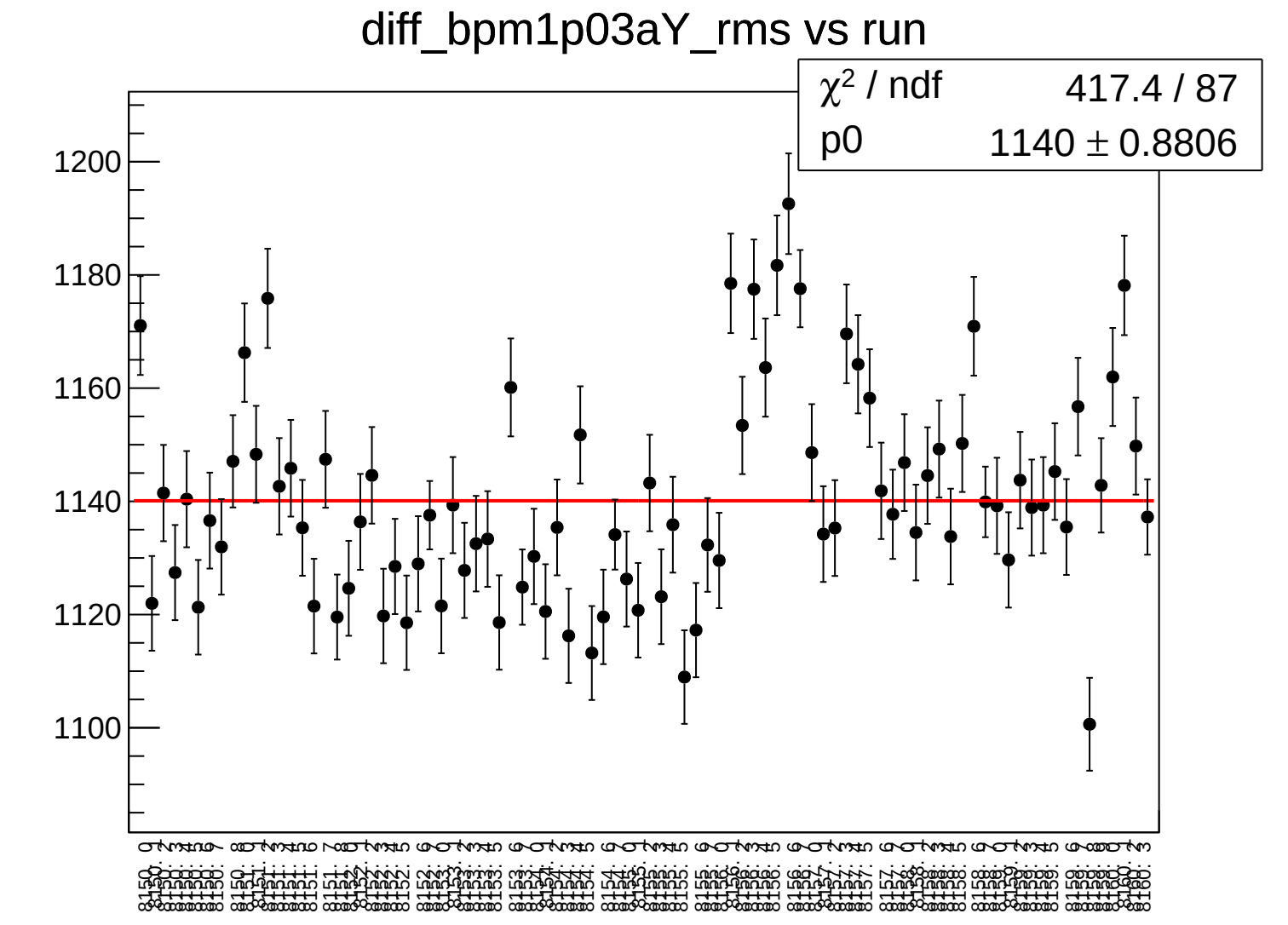

diff_bpm1p03aX_mean vs run
χ² / ndf 94.46 / 87
p0 −3.648 ± 2.293
pull
Entries 88
Mean 2227
Std Dev 0

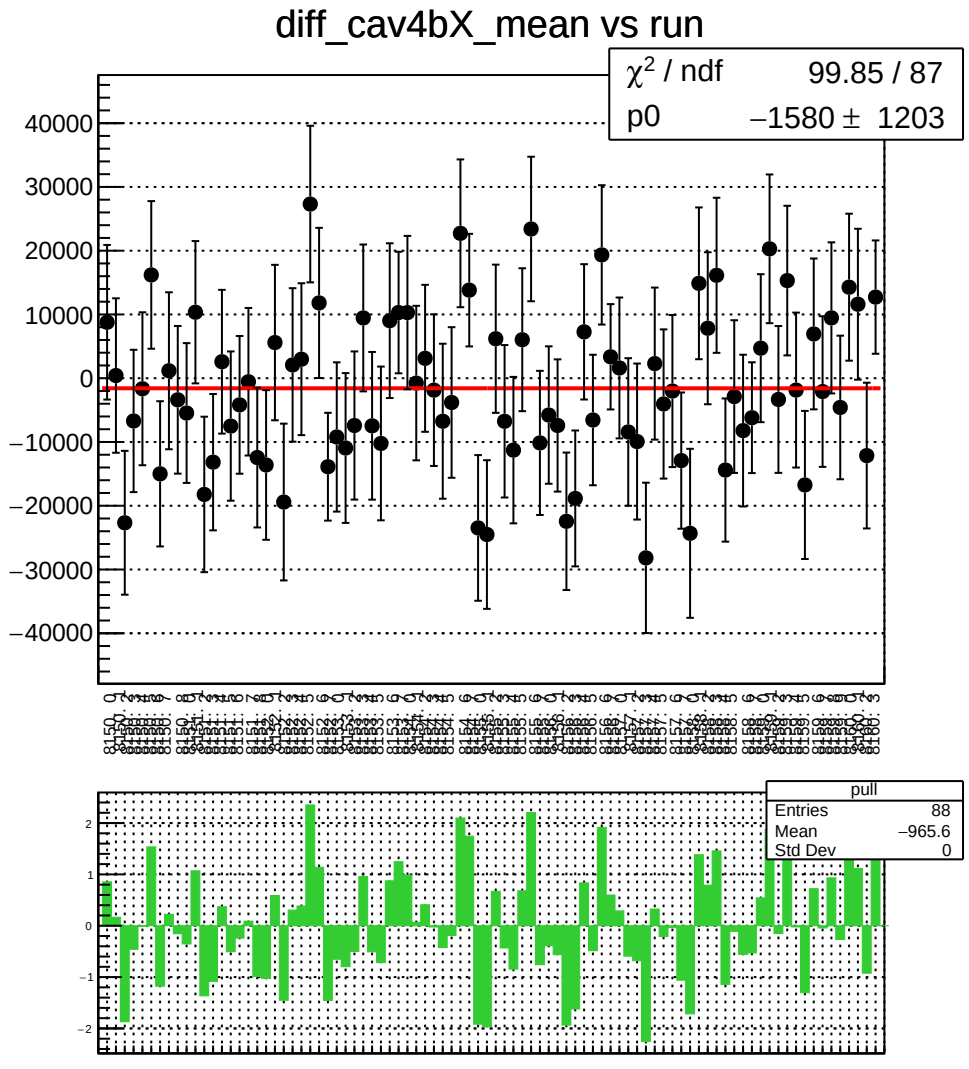

pull1D
Entries 88
Mean 0.001376
Std Dev 1.036

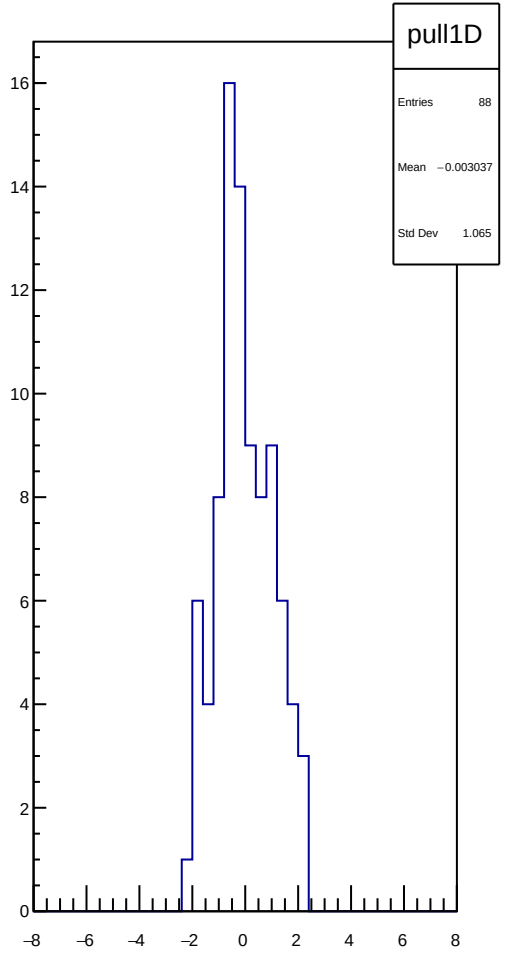

diff_bpm1p03aX_rms vs run
χ² / ndf 3456 / 87
p0 2097 ± 1.621
2500
2400
2300
2200
2100
2000
1900

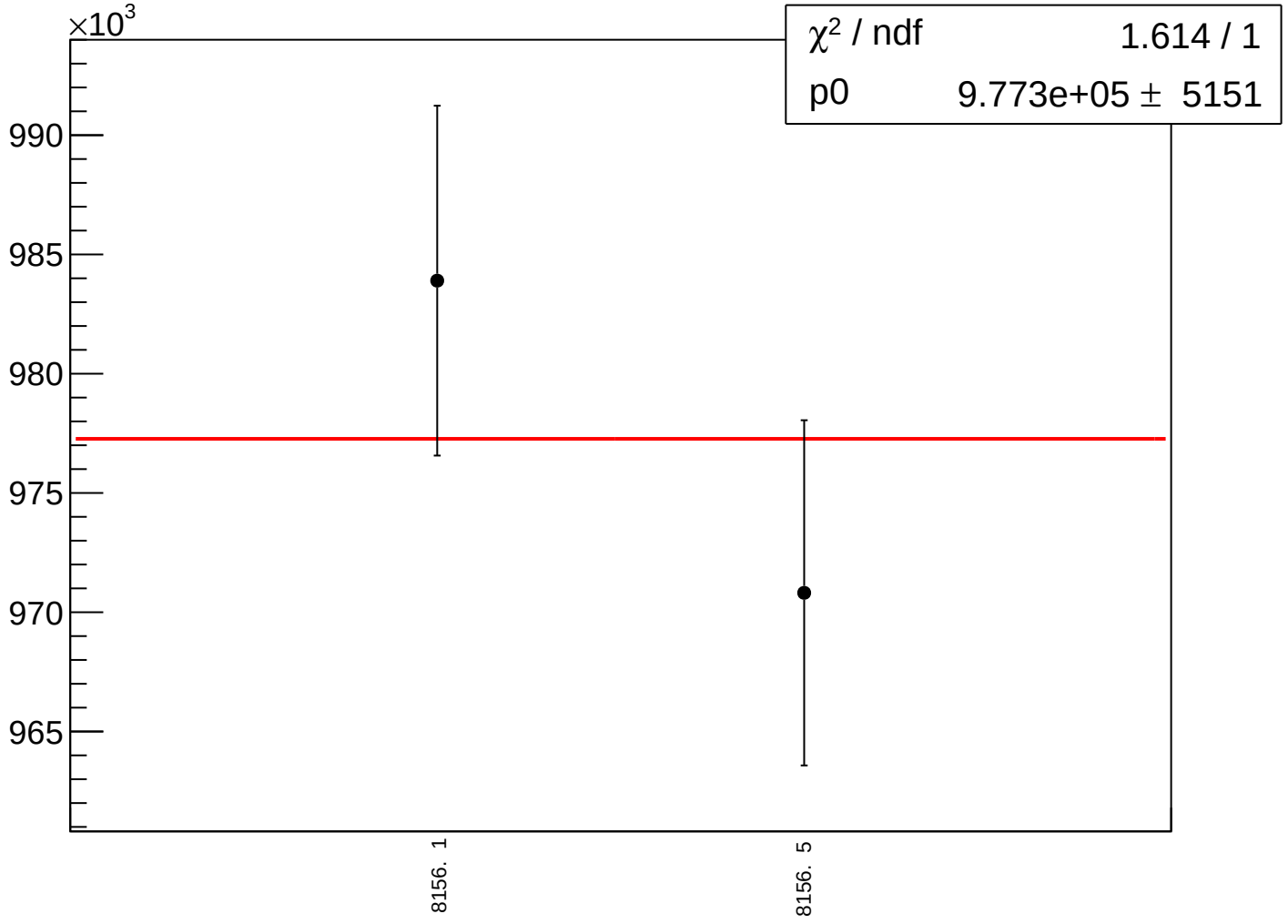

diff_bpm1p03aY_mean vs run
χ² / ndf 91.39 / 87
p0 −2.881 ± 1.245
pull
Entries 88
Mean −121
Std Dev 0

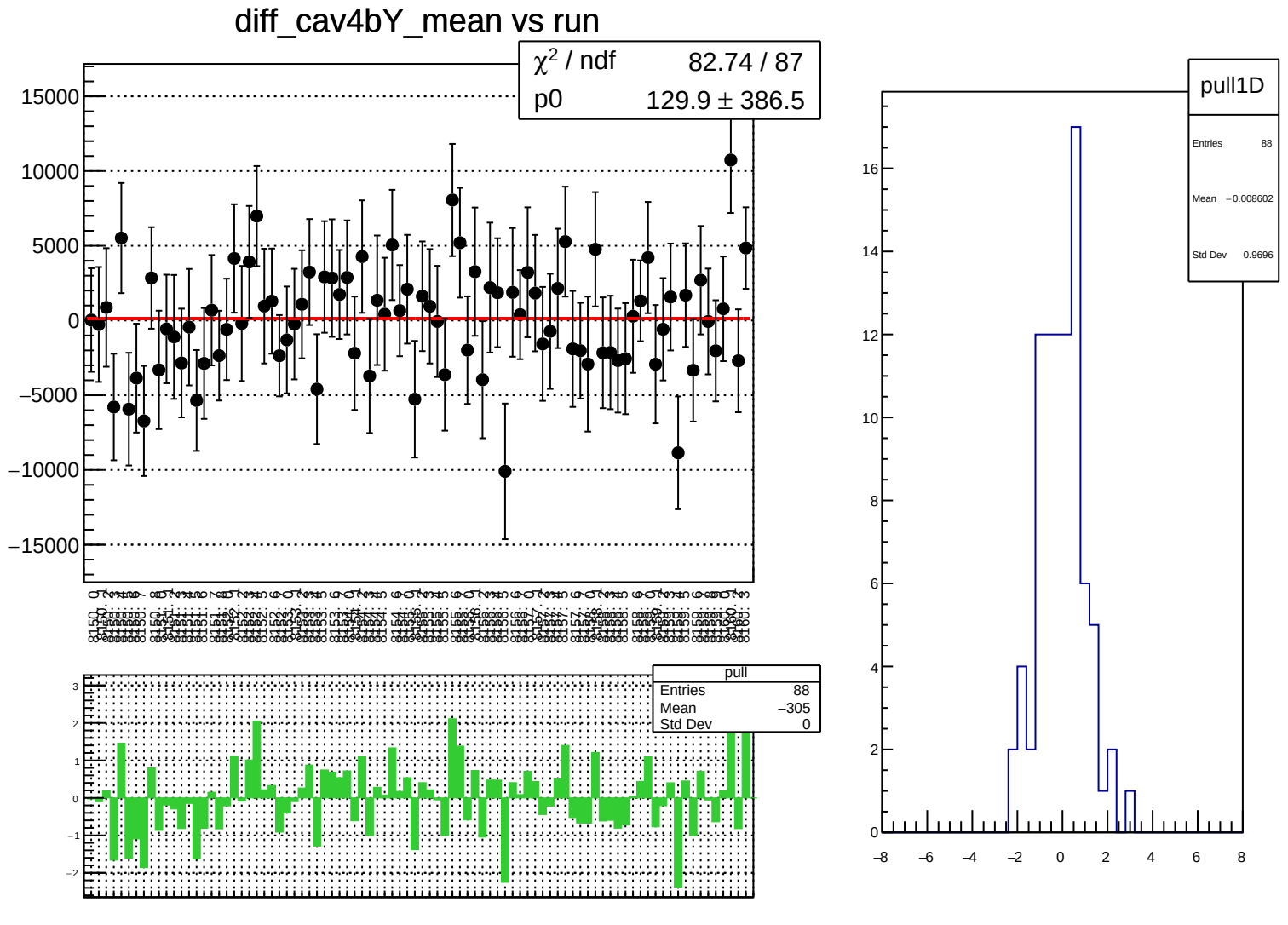

pull1D
Entries 88
Mean −0.01328
Std Dev 1.019

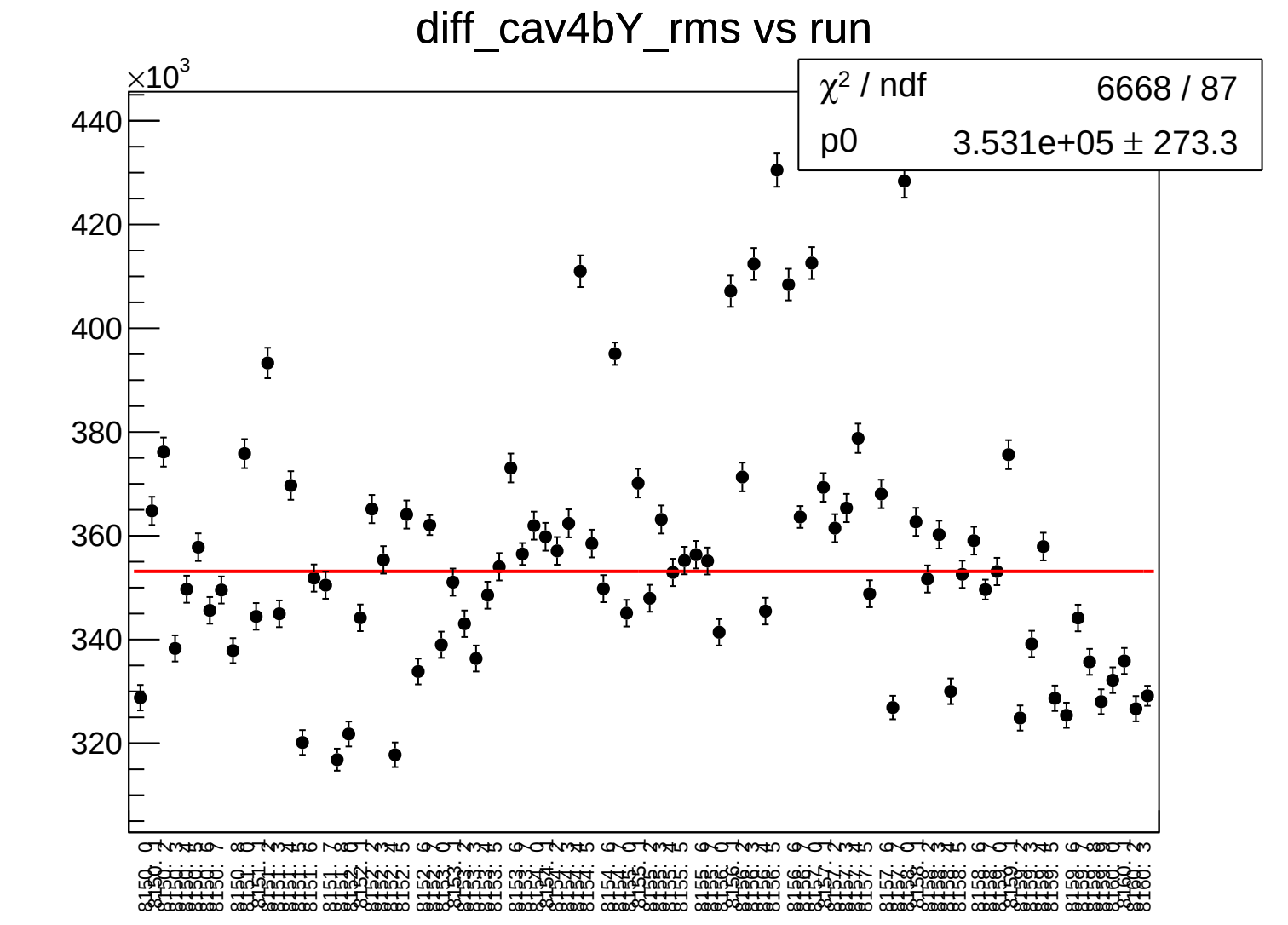

diff_bpm1p03aY_rms vs run
χ² / ndf 417.4 / 87
p0 1140 ± 0.8806
1200
1180
1160
1140
1120
1100

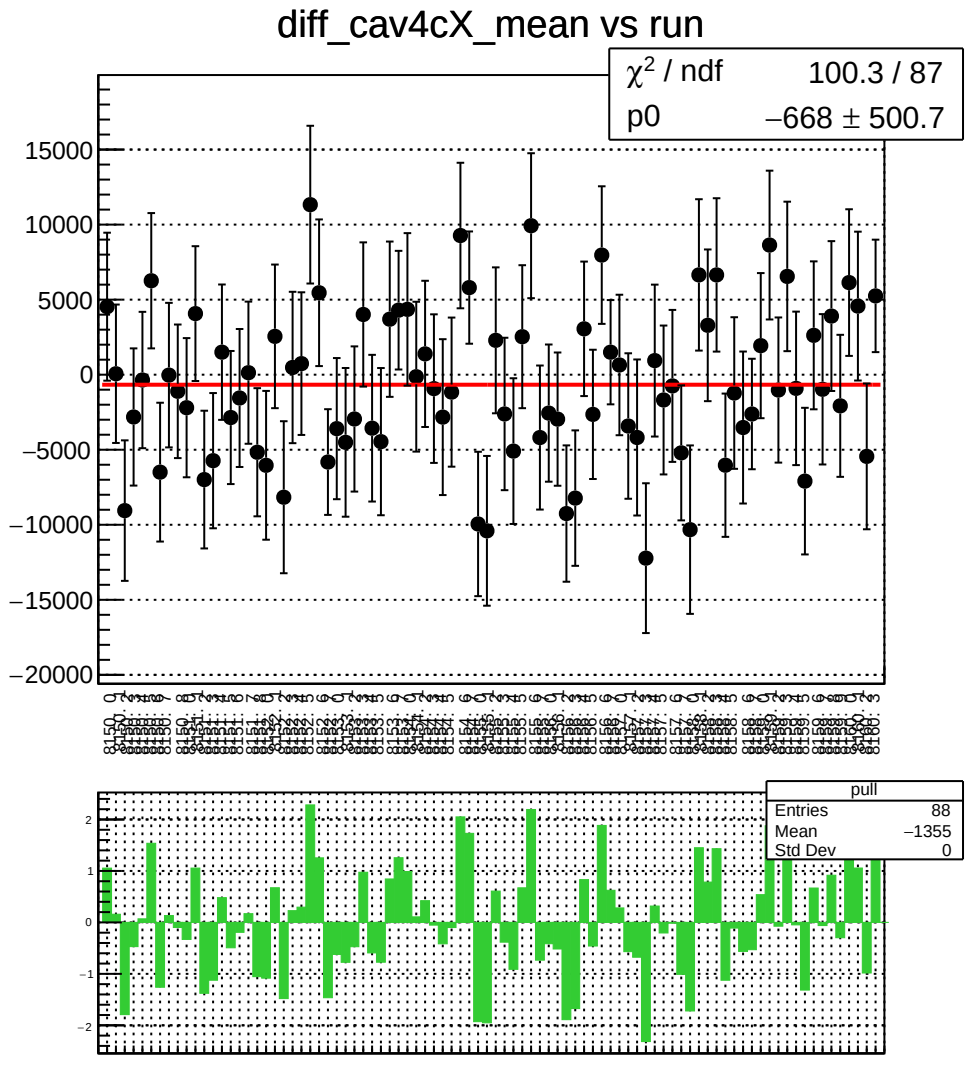

diff_cav4bX_mean vs run
χ^2 / ndf 99.85 / 87
p0 −1580 ± 1203
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −965.6
Std Dev 0
2
1
0
−1
−2

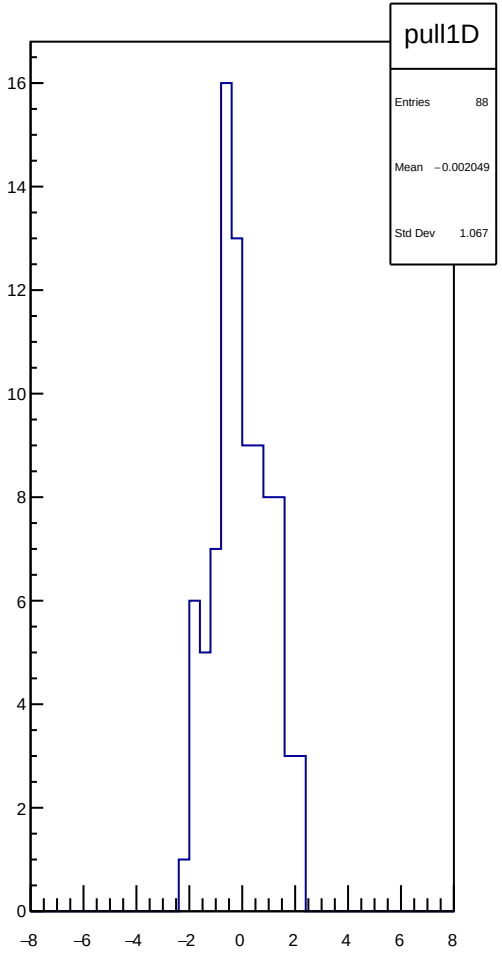

pull1D
Entries 88
Mean −0.003037
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

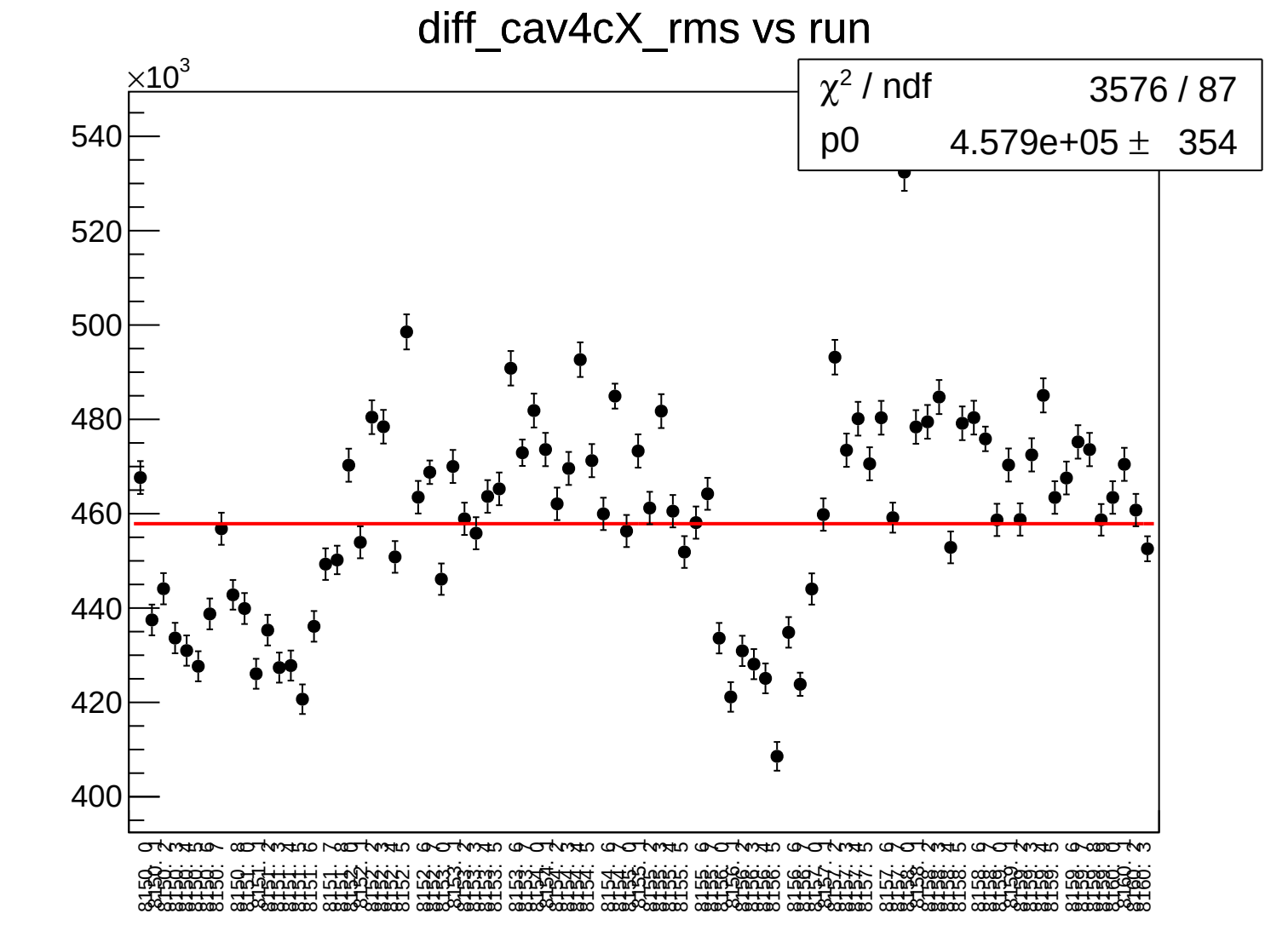

diff_cav4bX_rms vs run
×10^3
990
985
980
975
970
965
χ² / ndf 1.614 / 1
p0 9.773e+05 ± 5151
8156. 1
8156. 5

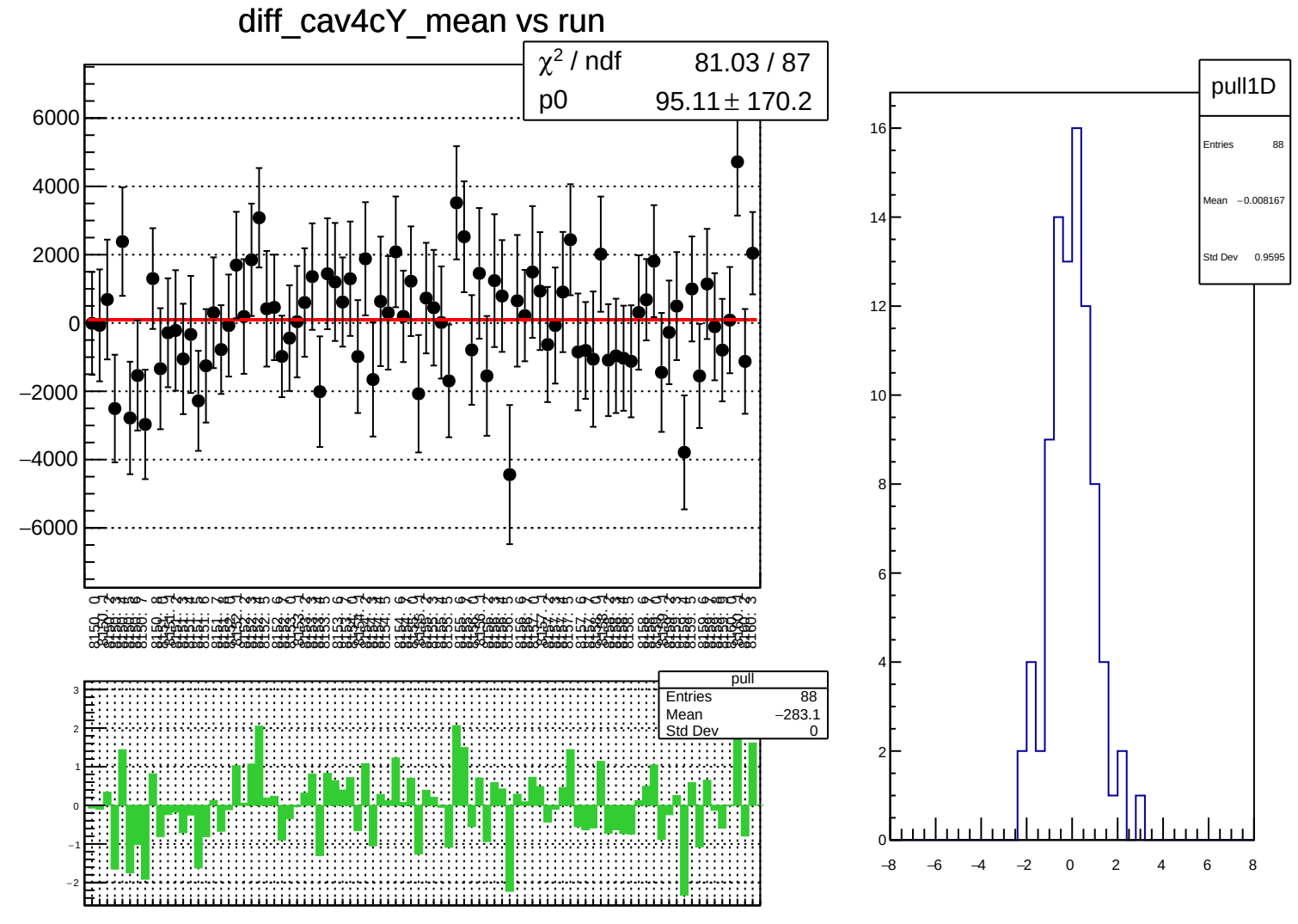

diff_cav4bY_mean vs run
χ² / ndf 82.74 / 87
p0 129.9 ± 386.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −305
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.008602
Std Dev 0.9696
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

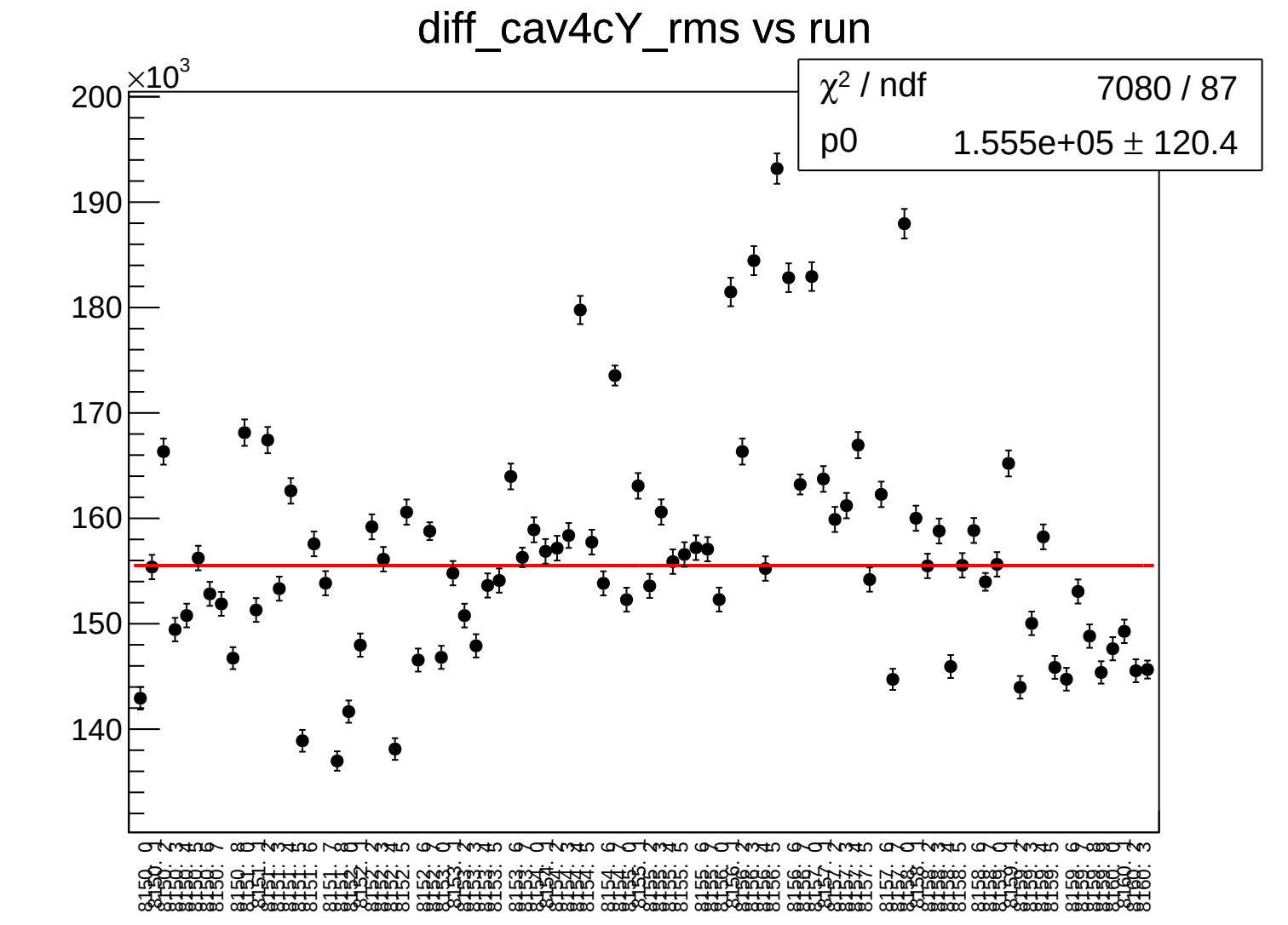

diff_cav4bY_rms vs run
×10^3
440
420
400
380
360
340
320
χ² / ndf 6668 / 87
p0 3.531e+05 ± 273.3

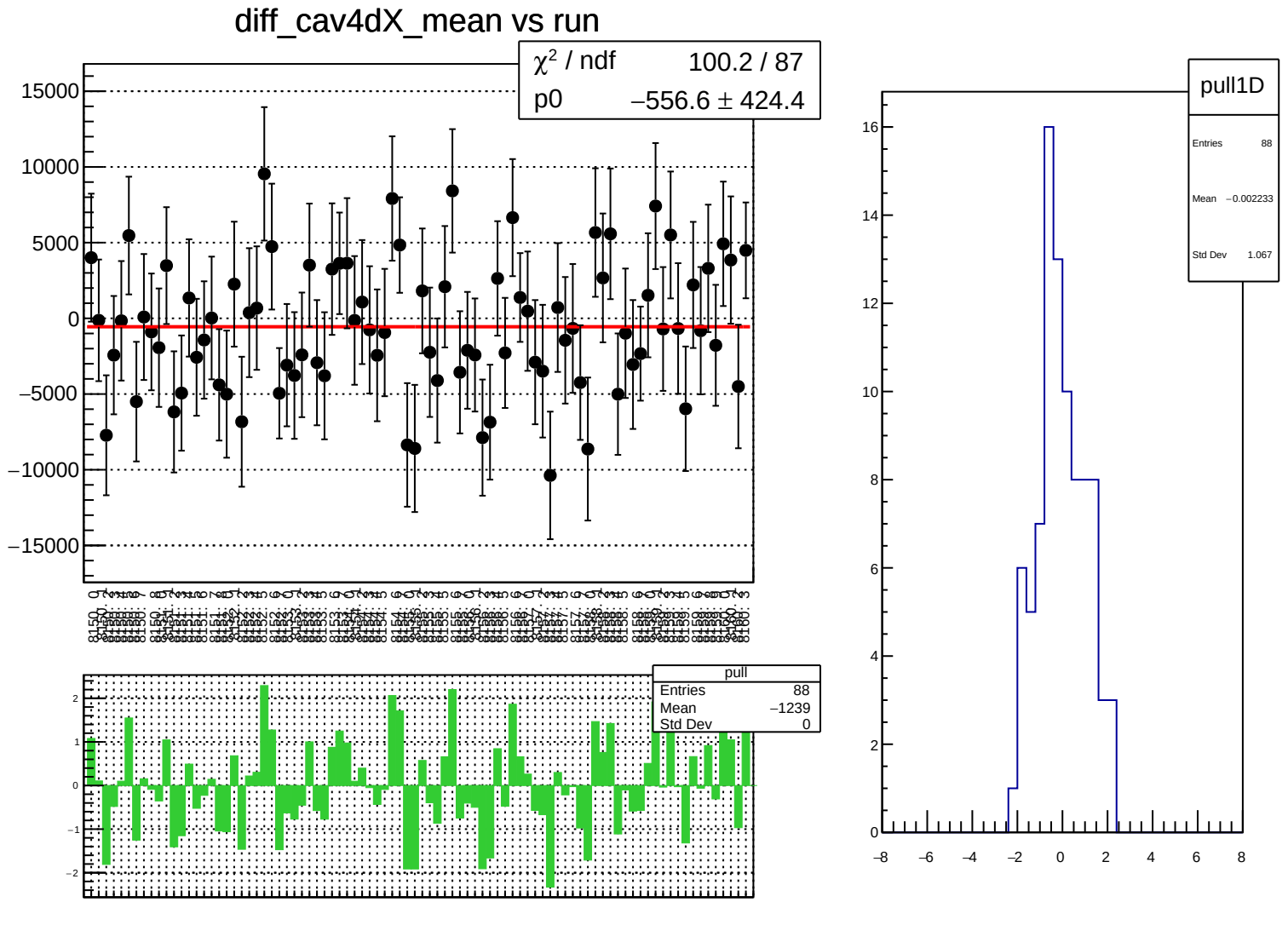

diff_cav4cX_mean vs run
χ² / ndf 100.3 / 87
p0 −668 ± 500.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean −1355
Std Dev 0
2
1
0
−1
−2

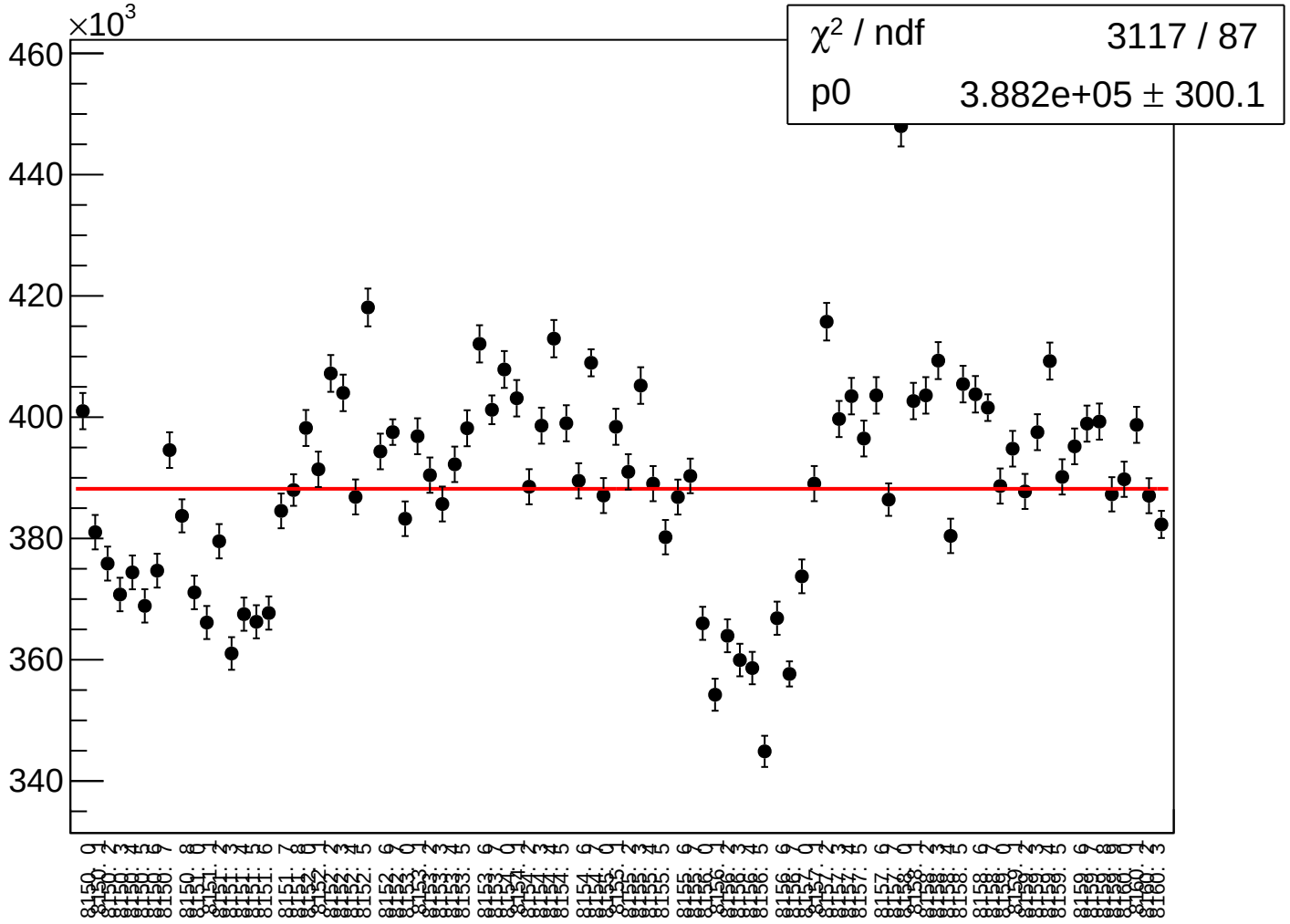

pull1D
Entries 88
Mean −0.002049
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

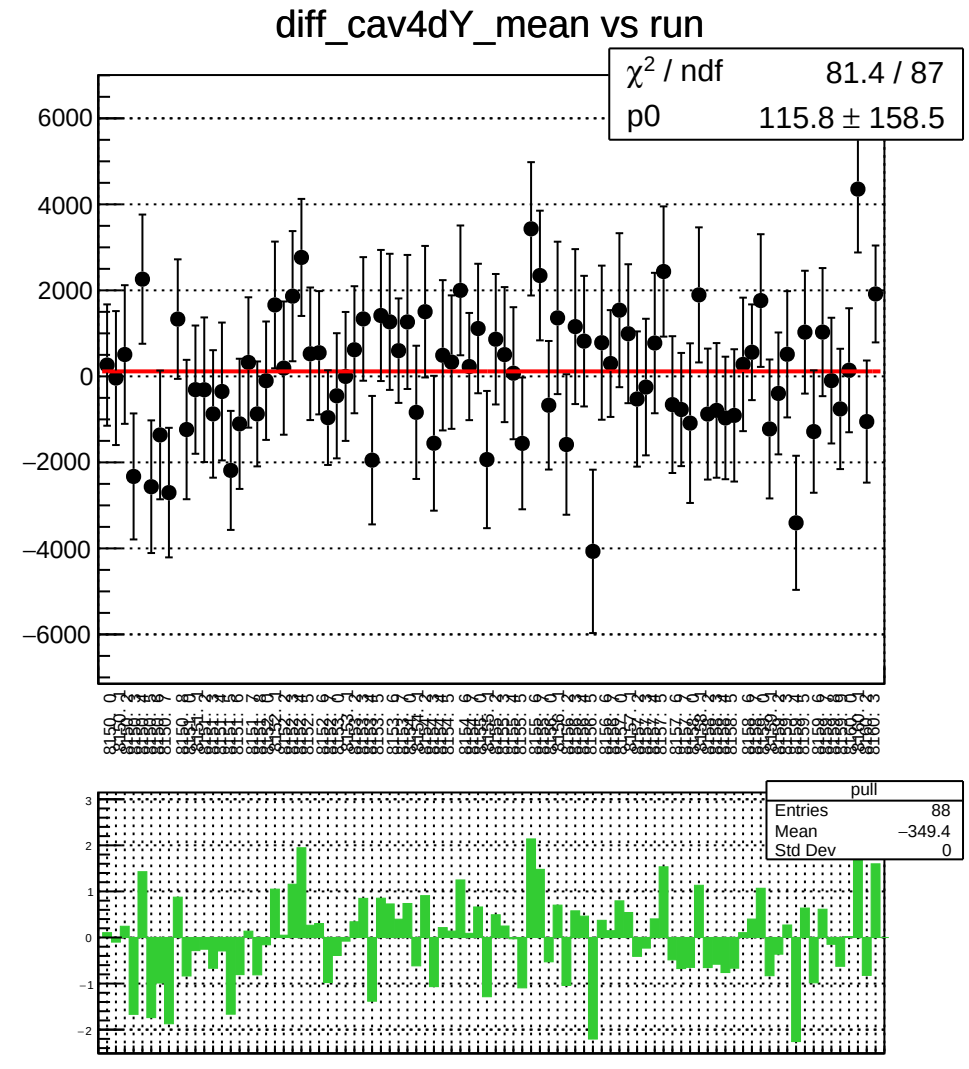

diff_cav4cX_rms vs run
×10^3
χ^2 / ndf 3576 / 87
p0 4.579e+05 ± 354
540
520
500
480
460
440
420
400

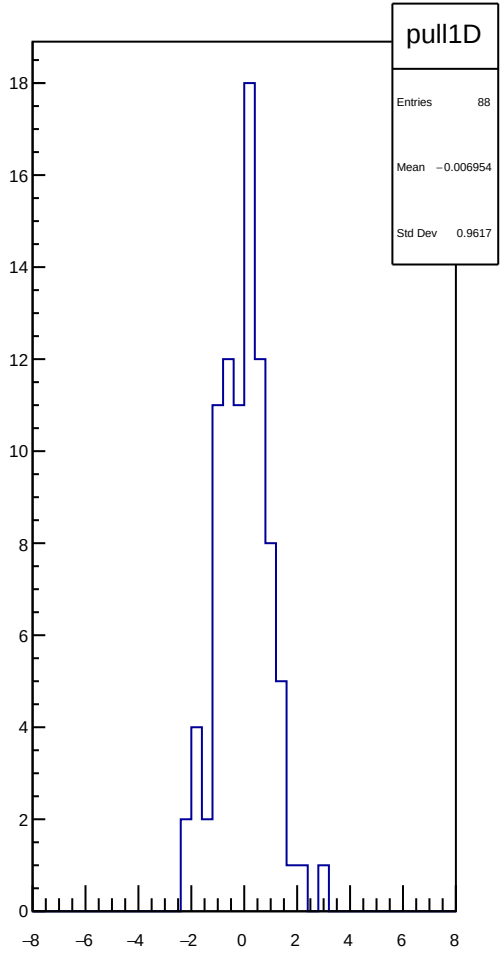

diff_cav4cY_mean vs run
χ² / ndf 81.03 / 87
p0 95.11 ± 170.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −283.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.008167
Std Dev 0.9595
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

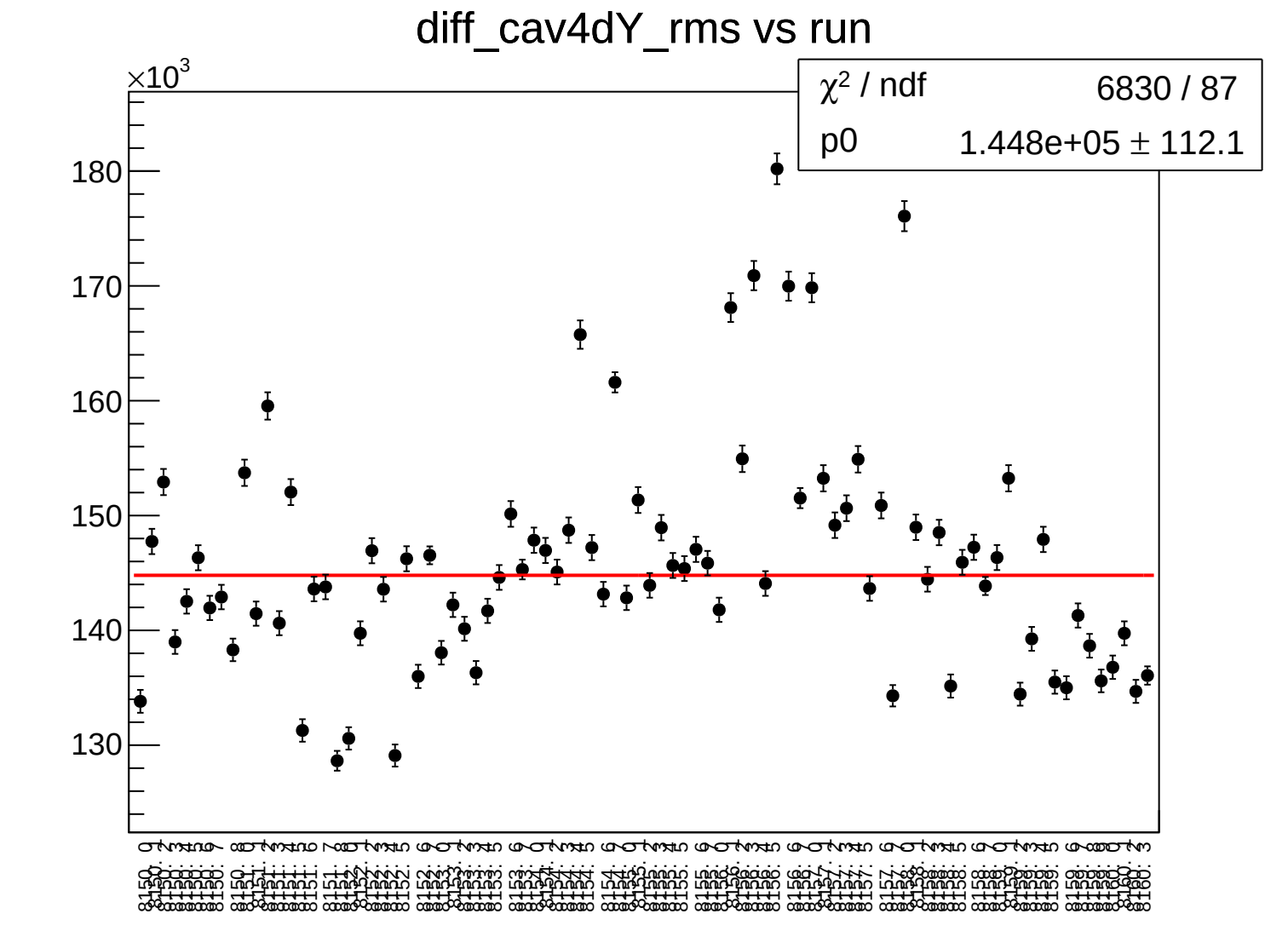

diff_cav4cY_rms vs run
×10^3
200
190
180
170
160
150
140
χ² / ndf 7080 / 87
p0 1.555e+05 ± 120.4

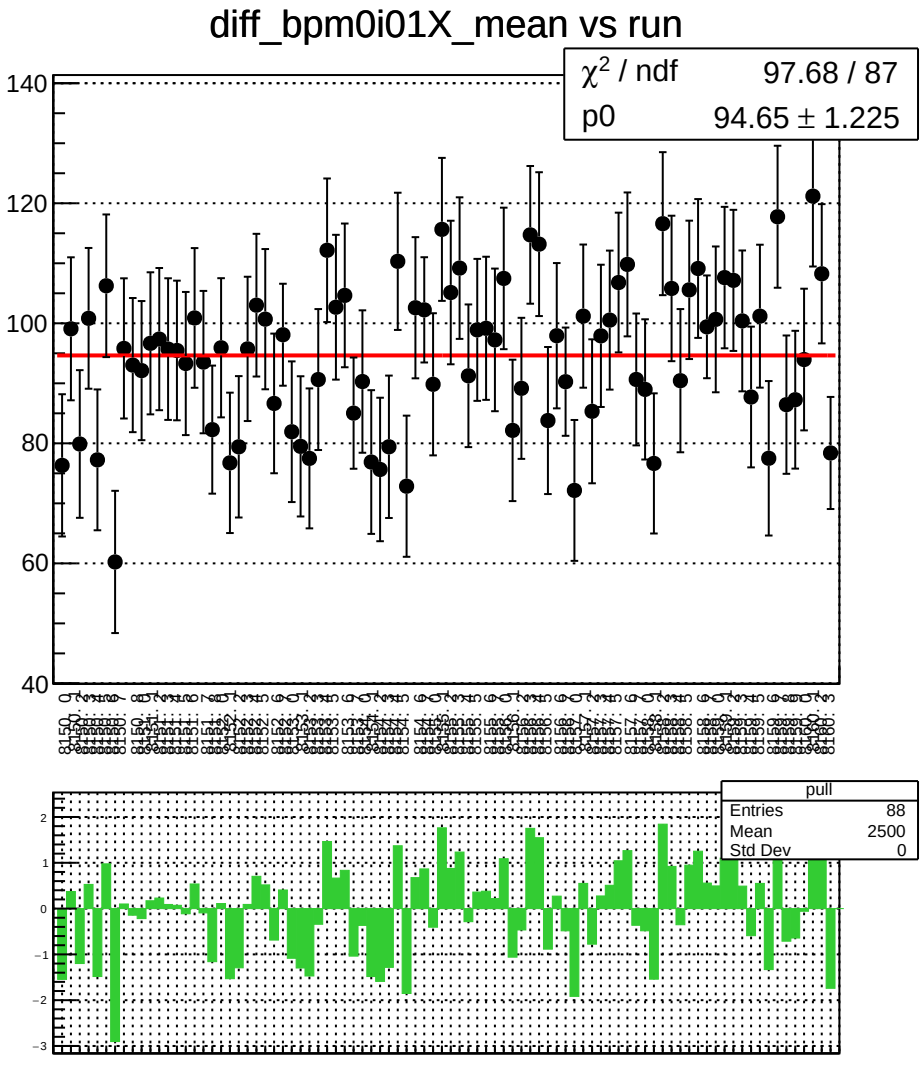

diff_cav4dX_mean vs run
χ² / ndf 100.2 / 87
p0 −556.6 ± 424.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1239
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002233
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

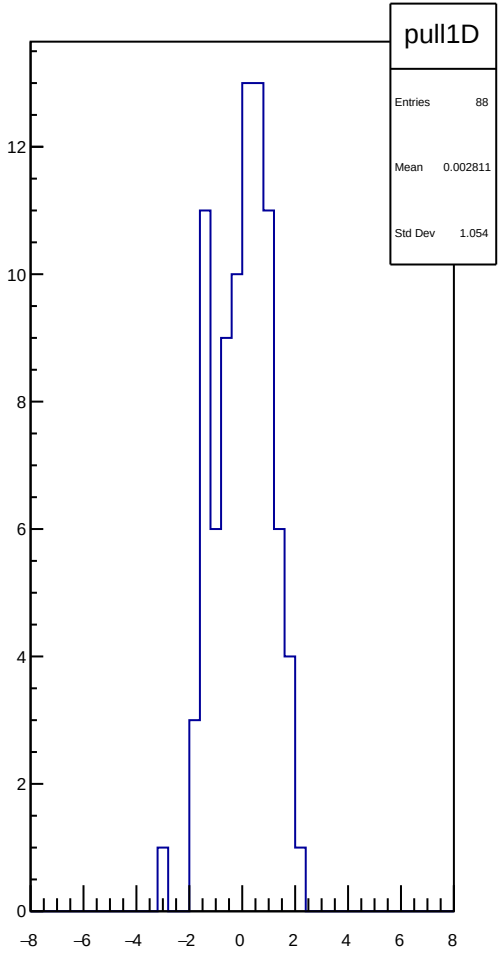

diff_cav4dX_rms vs run
×10^3
460
440
420
400
380
360
340
χ² / ndf 3117 / 87
p0 3.882e+05 ± 300.1

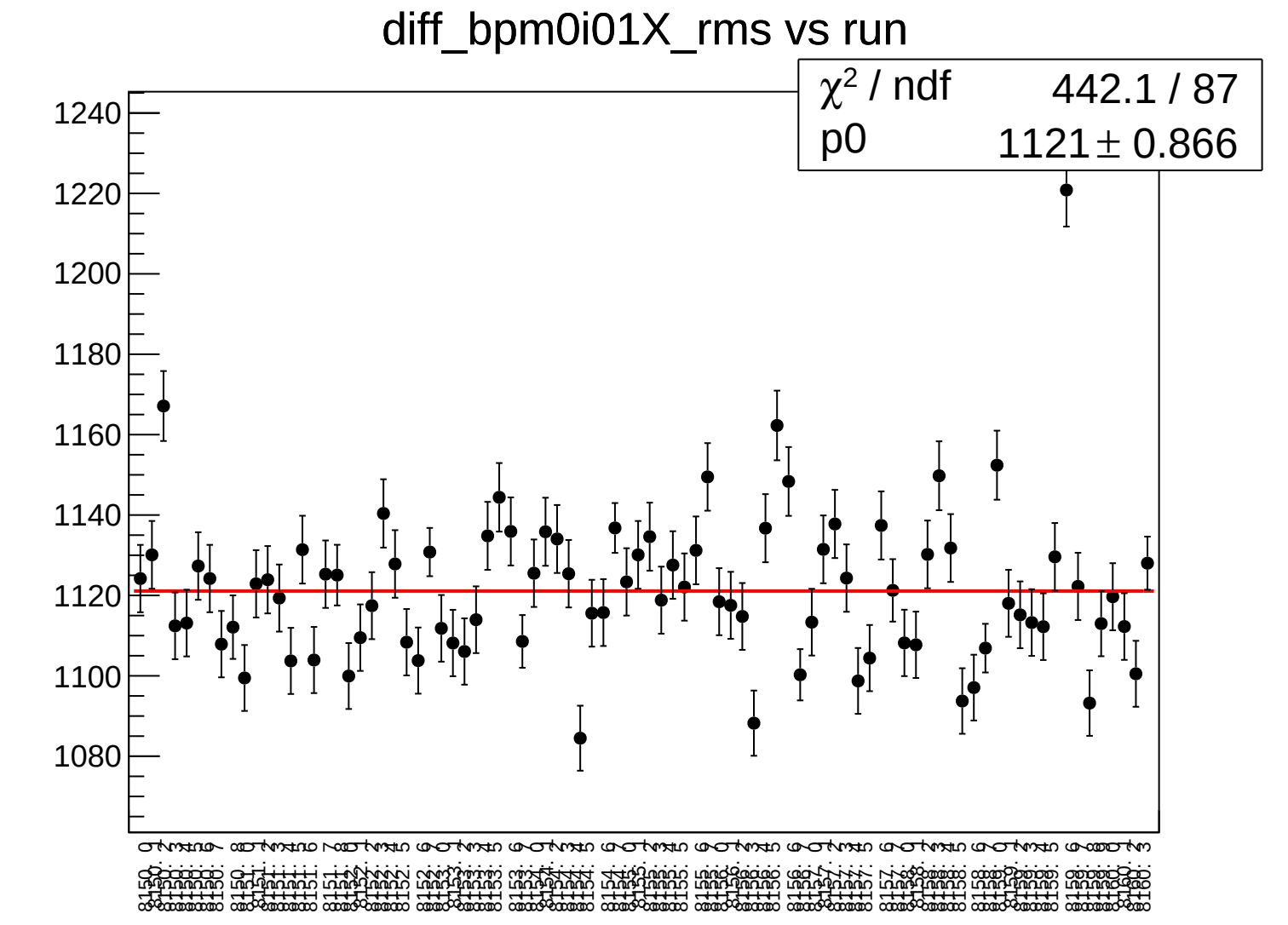

diff_cav4dY_mean vs run
χ^2 / ndf 81.4 / 87
p0 115.8 ± 158.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −349.4
Std Dev 0
3
2
1
0
−1
−2

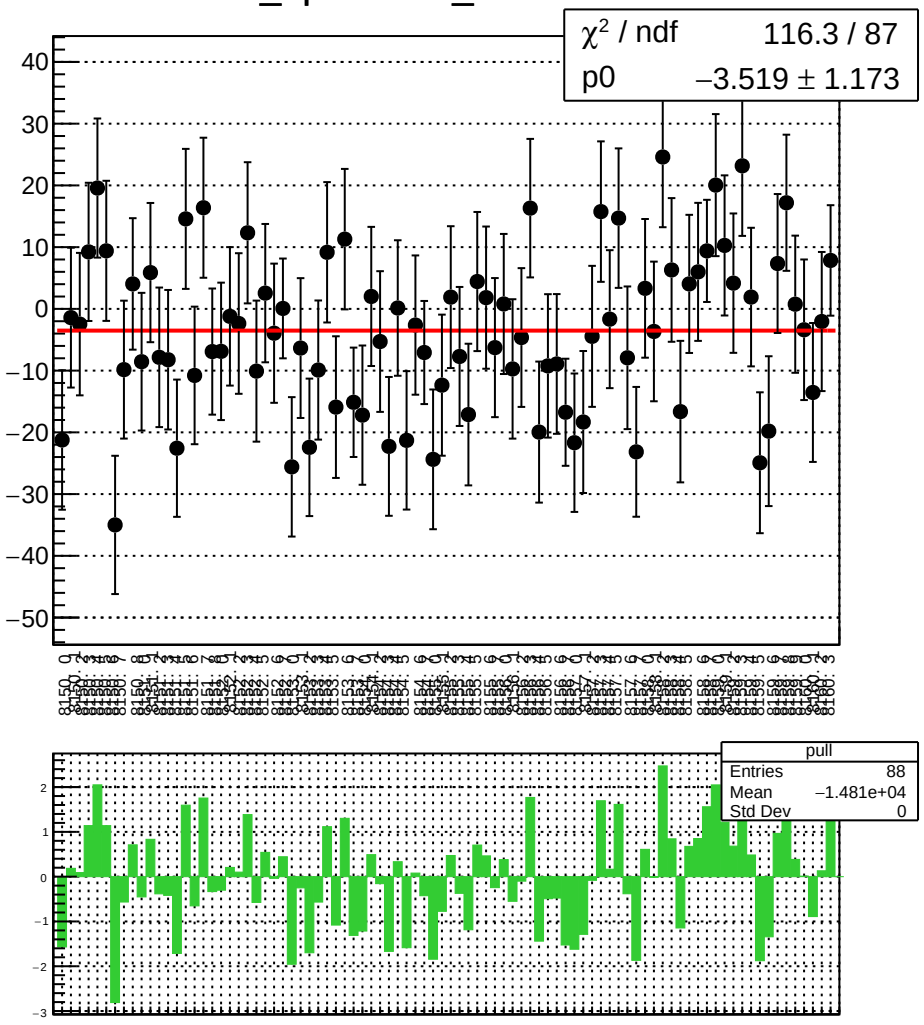

pull1D
Entries 88
Mean −0.006954
Std Dev 0.9617
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

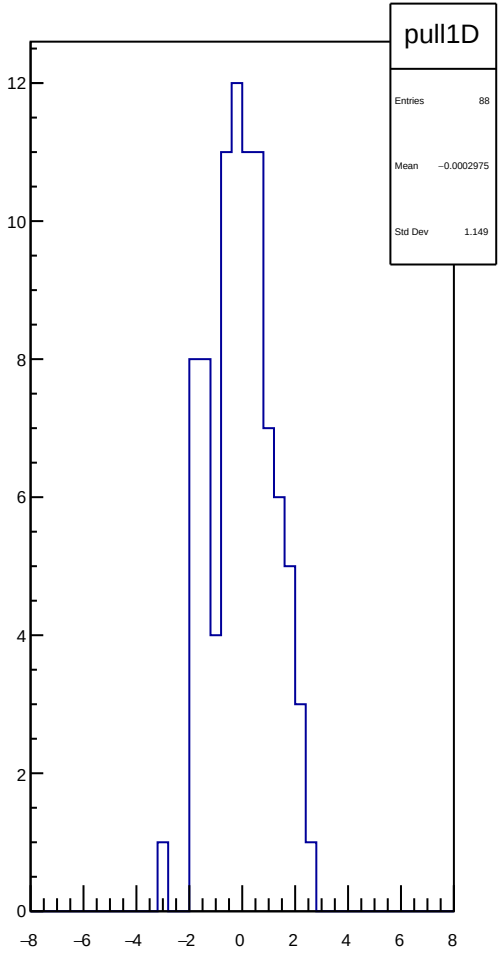

diff_cav4dY_rms vs run
×10^3
χ² / ndf 6830 / 87
p0 1.448e+05 ± 112.1
180
170
160
150
140
130

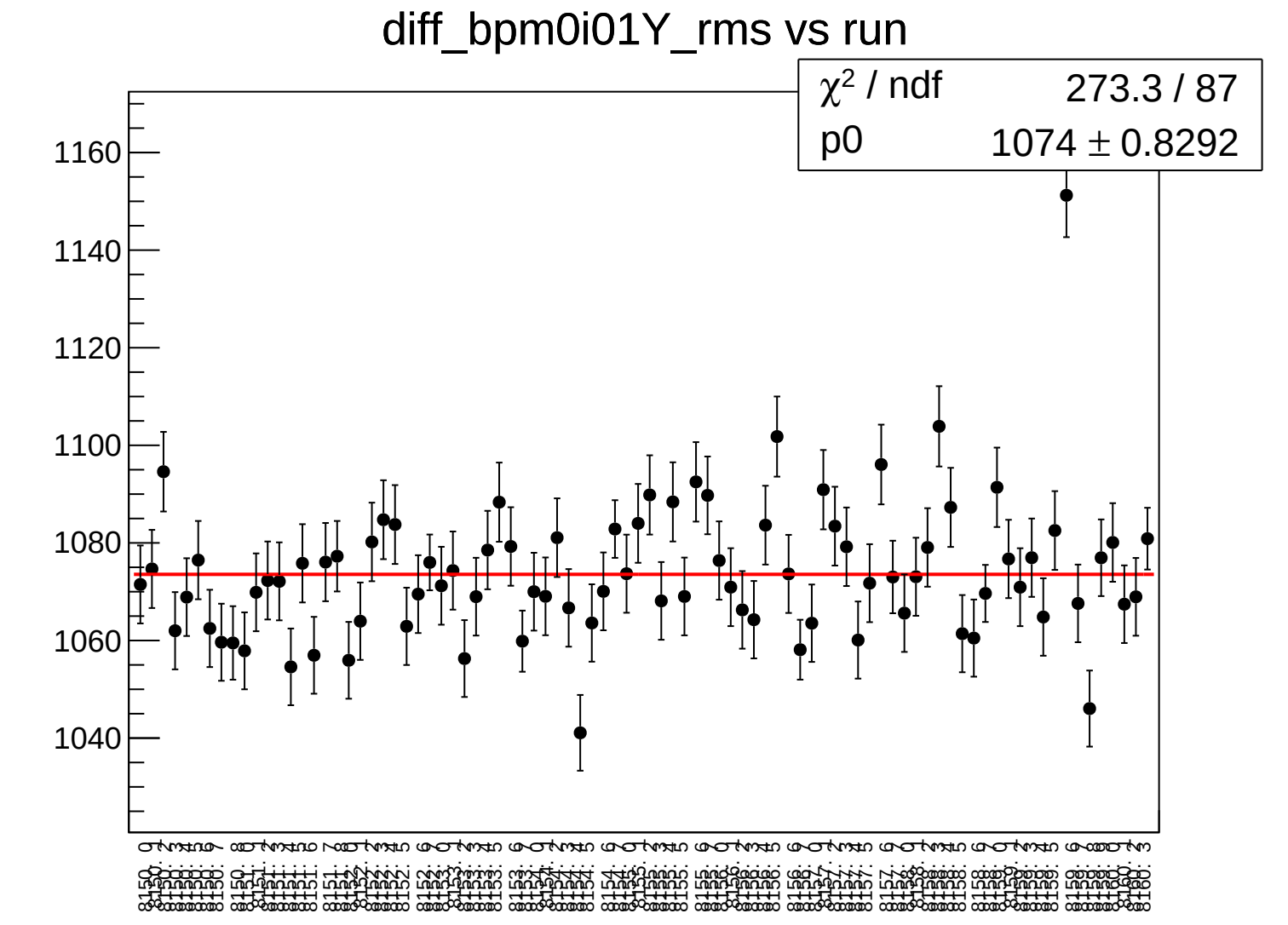

diff_bpm0i01X_mean vs run
χ^2 / ndf 97.68 / 87
p0 94.65 ± 1.225
pull
Entries 88
Mean 2500
Std Dev 0

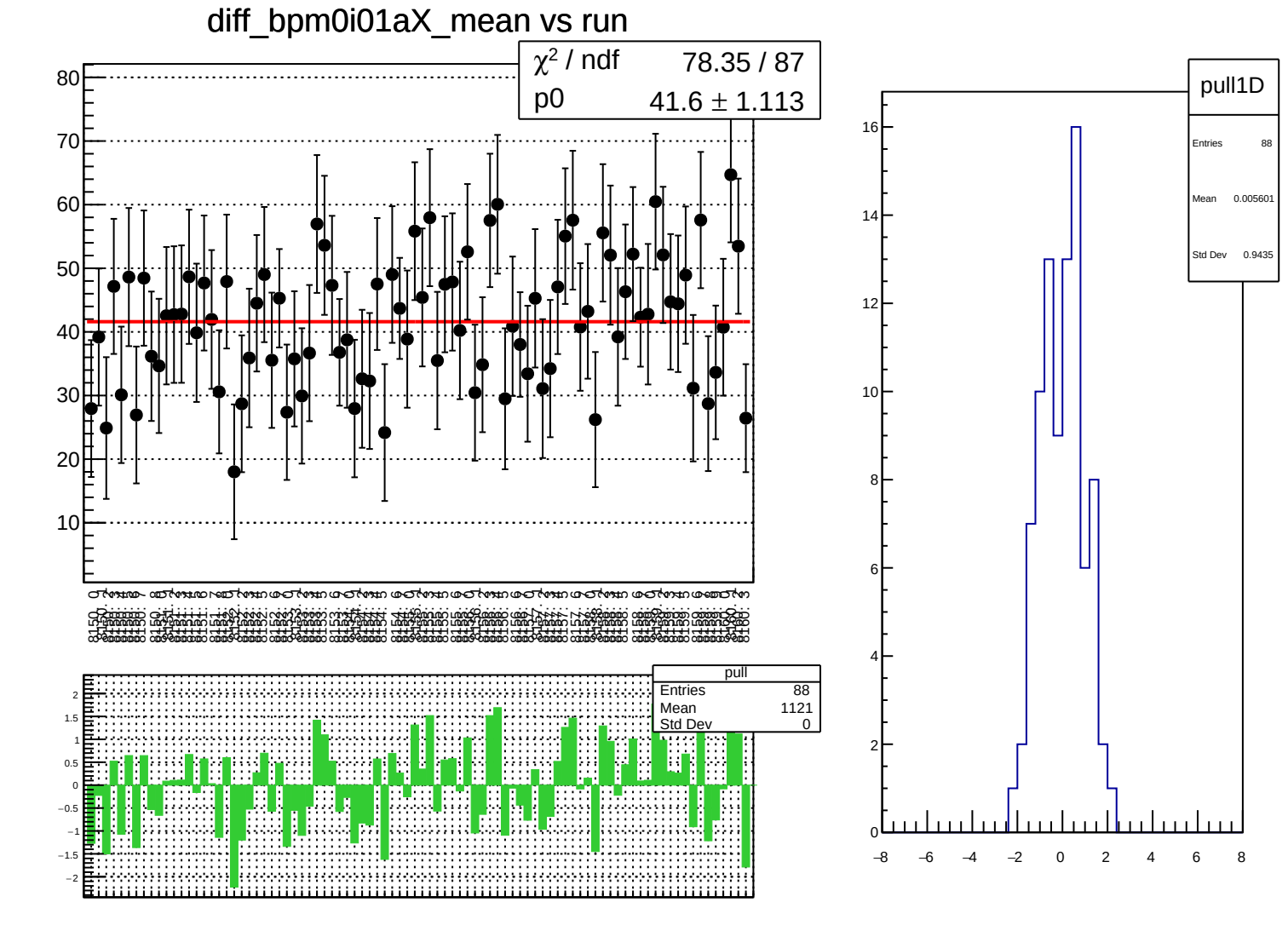

pull1D
Entries 88
Mean 0.002811
Std Dev 1.054

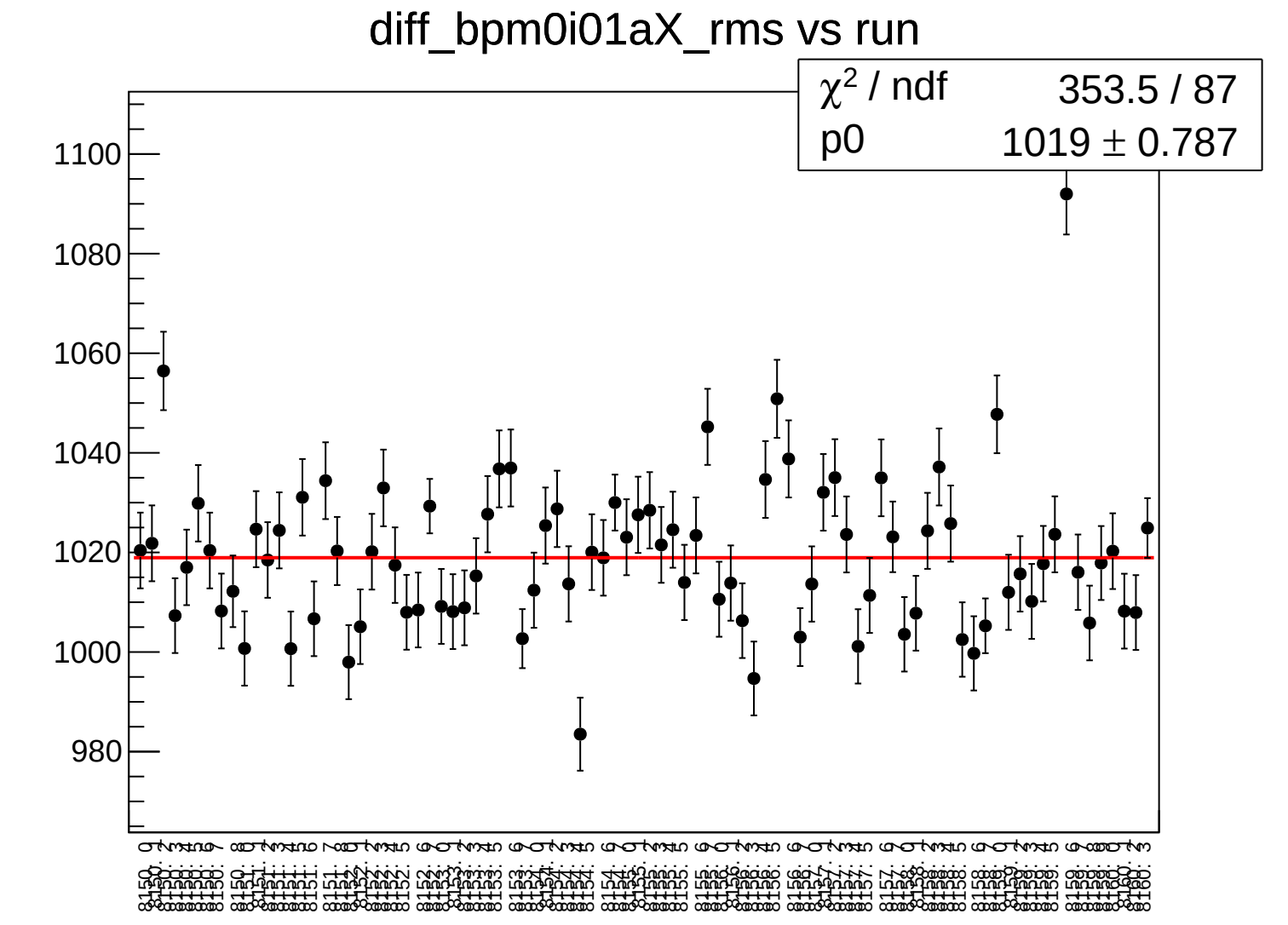

diff_bpm0i01X_rms vs run
χ² / ndf 442.1 / 87
p0 1121 ± 0.866
1240
1220
1200
1180
1160
1140
1120
1100
1080

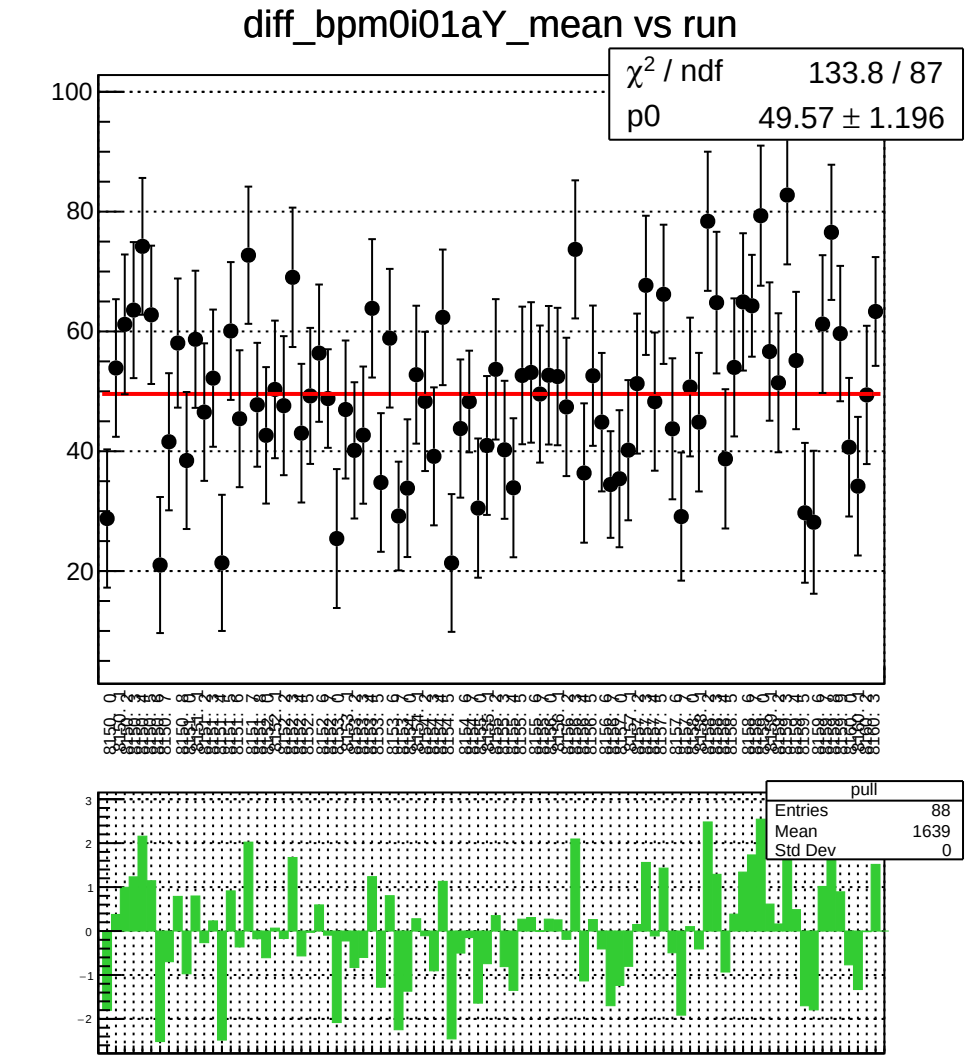

diff_bpm0i01Y_mean vs run
χ² / ndf 116.3 / 87
p0 −3.519 ± 1.173
pull
Entries 88
Mean −1.481e+04
Std Dev 0

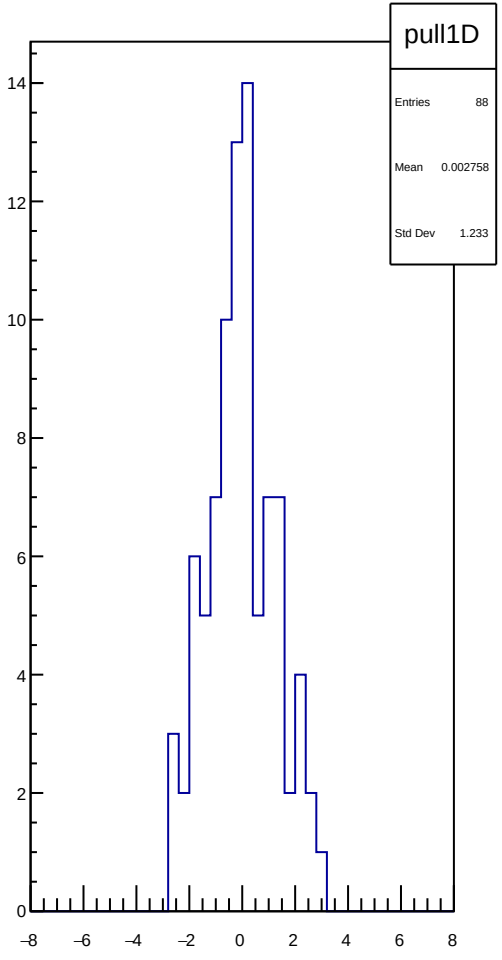

pull1D
Entries 88
Mean −0.0002975
Std Dev 1.149

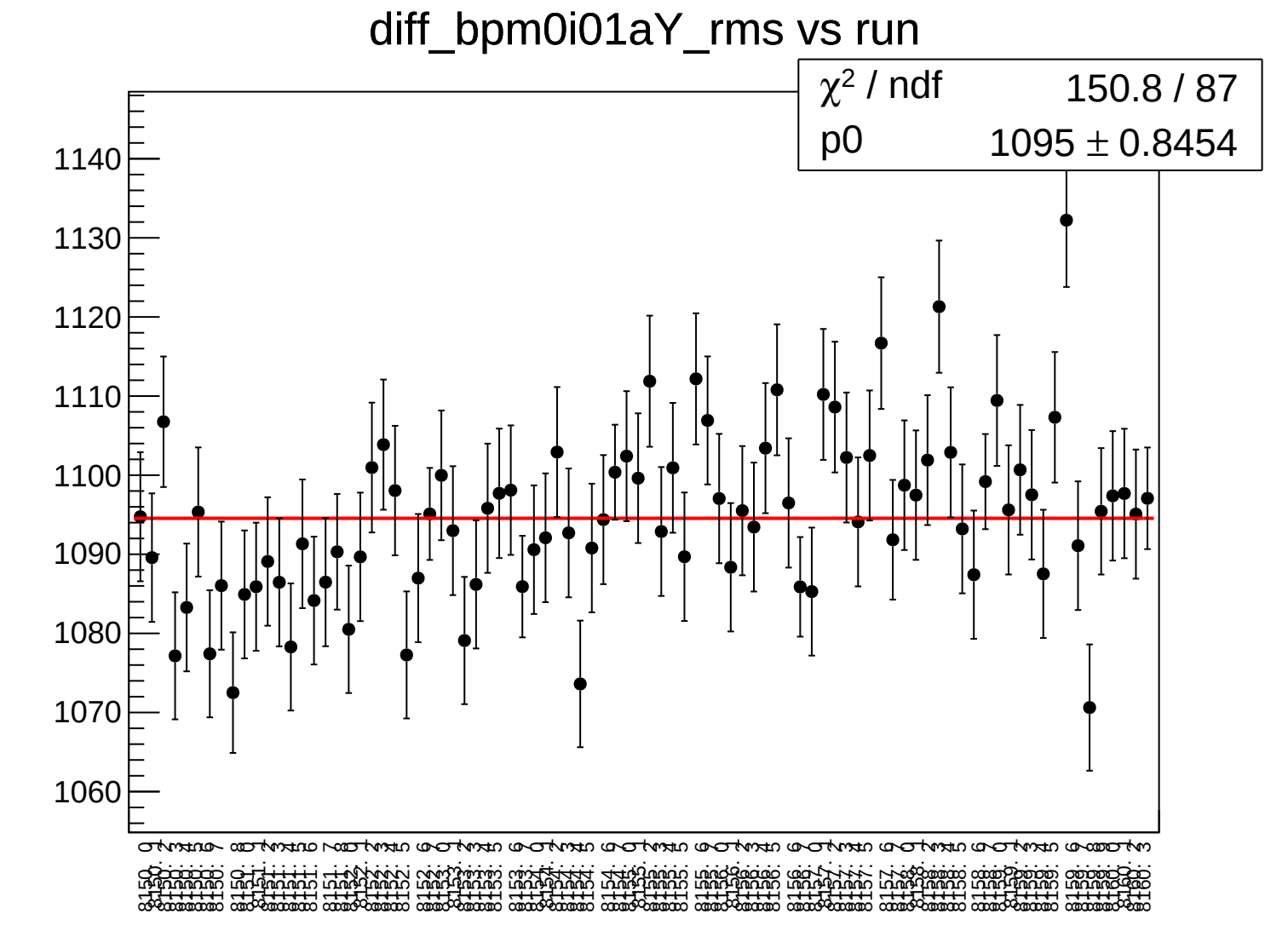

diff_bpm0i01Y_rms vs run
χ² / ndf 273.3 / 87
p0 1074 ± 0.8292
1160
1140
1120
1100
1080
1060
1040

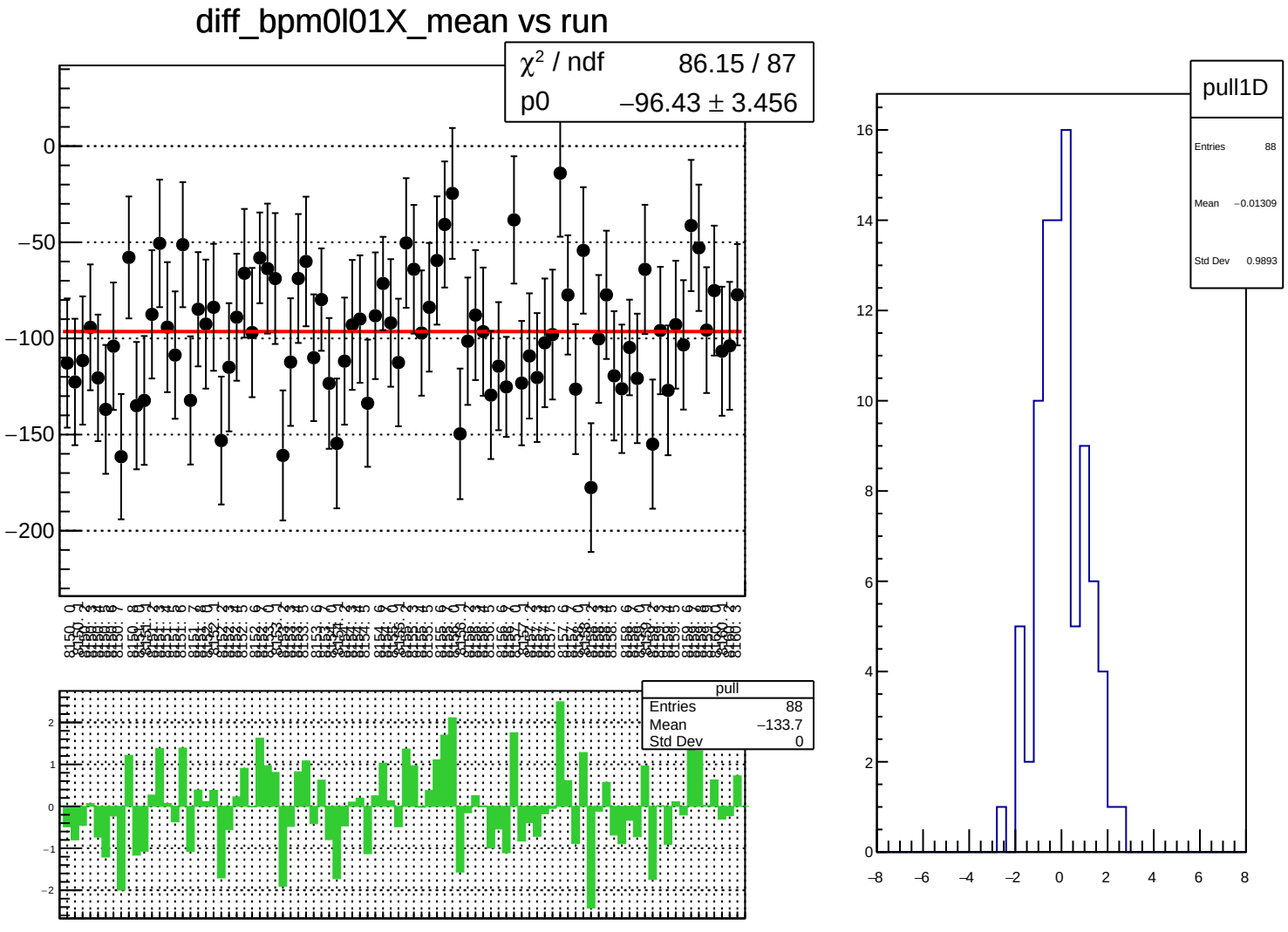

diff_bpm0i01aX_mean vs run
χ² / ndf 78.35 / 87
p0 41.6 ± 1.113
pull
Entries 88
Mean 1121
Std Dev 0
pull1D
Entries 88
Mean 0.005601
Std Dev 0.9435

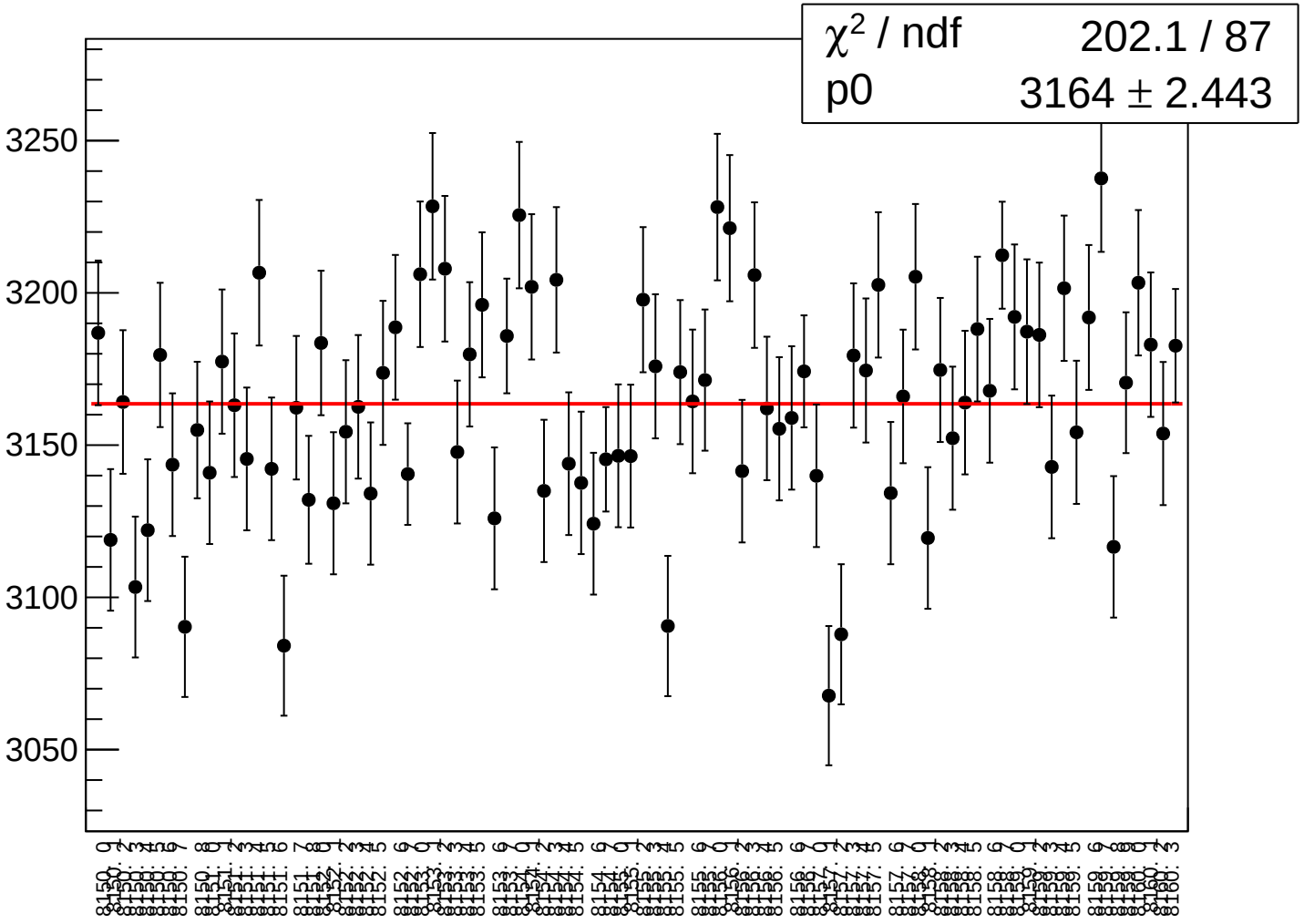

diff_bpm0i01aX_rms vs run
χ² / ndf 353.5 / 87
p0 1019 ± 0.787
1100
1080
1060
1040
1020
1000
980

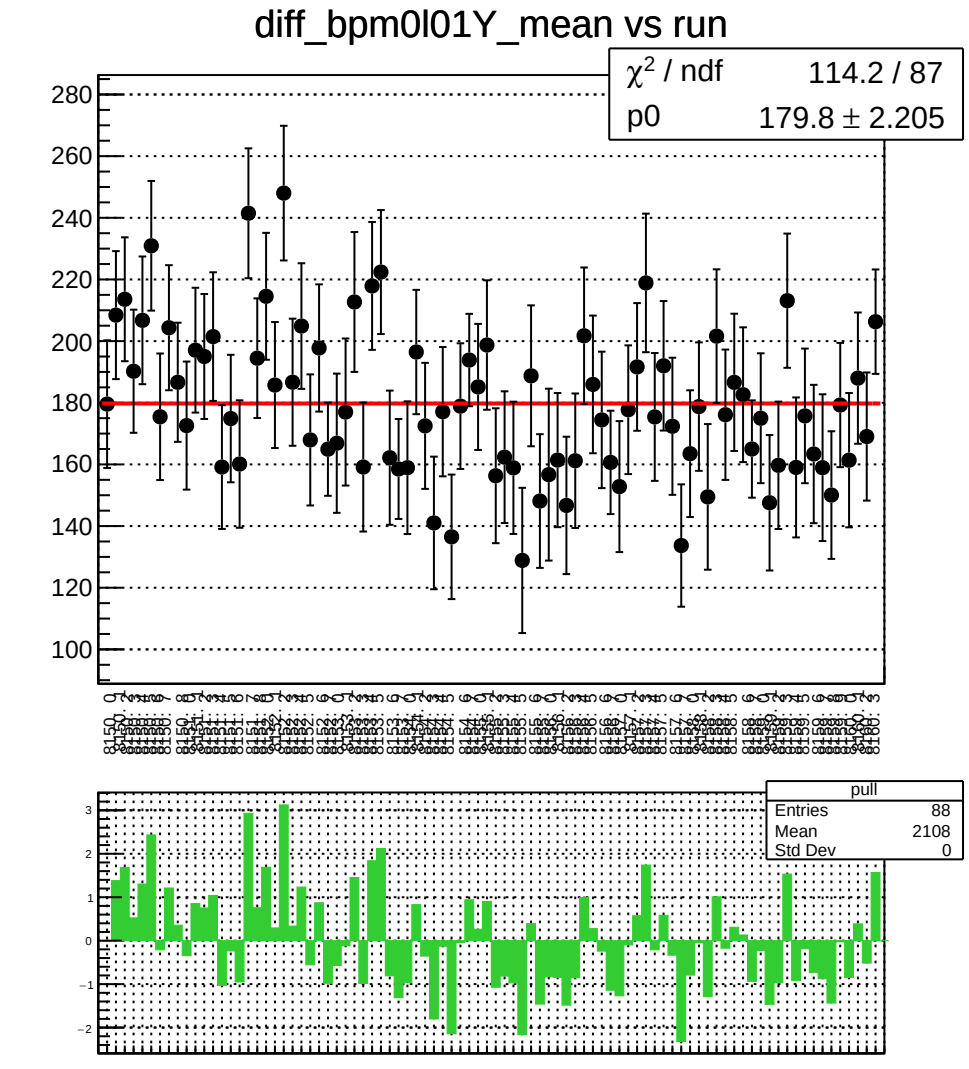

diff_bpm0i01aY_mean vs run
χ² / ndf 133.8 / 87
p0 49.57 ± 1.196
pull
Entries 88
Mean 1639
Std Dev 0

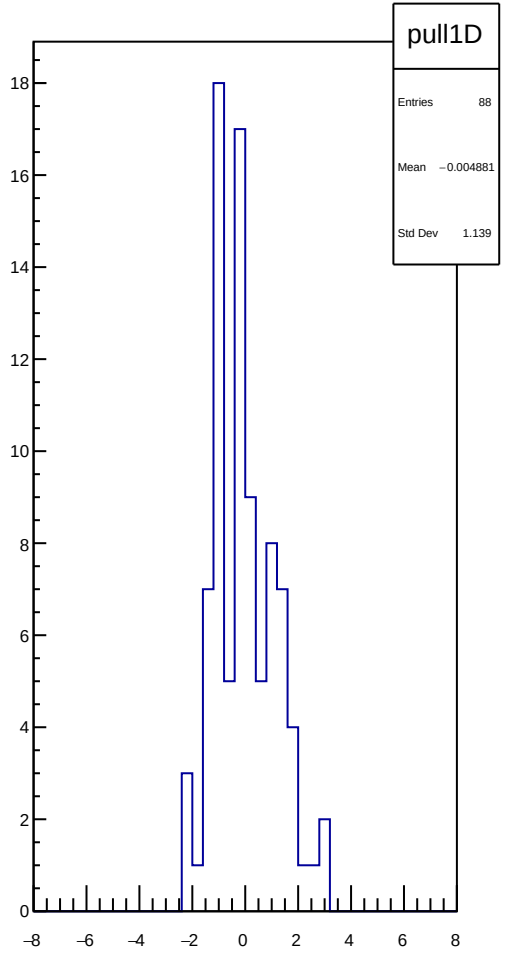

pull1D
Entries 88
Mean 0.002758
Std Dev 1.233

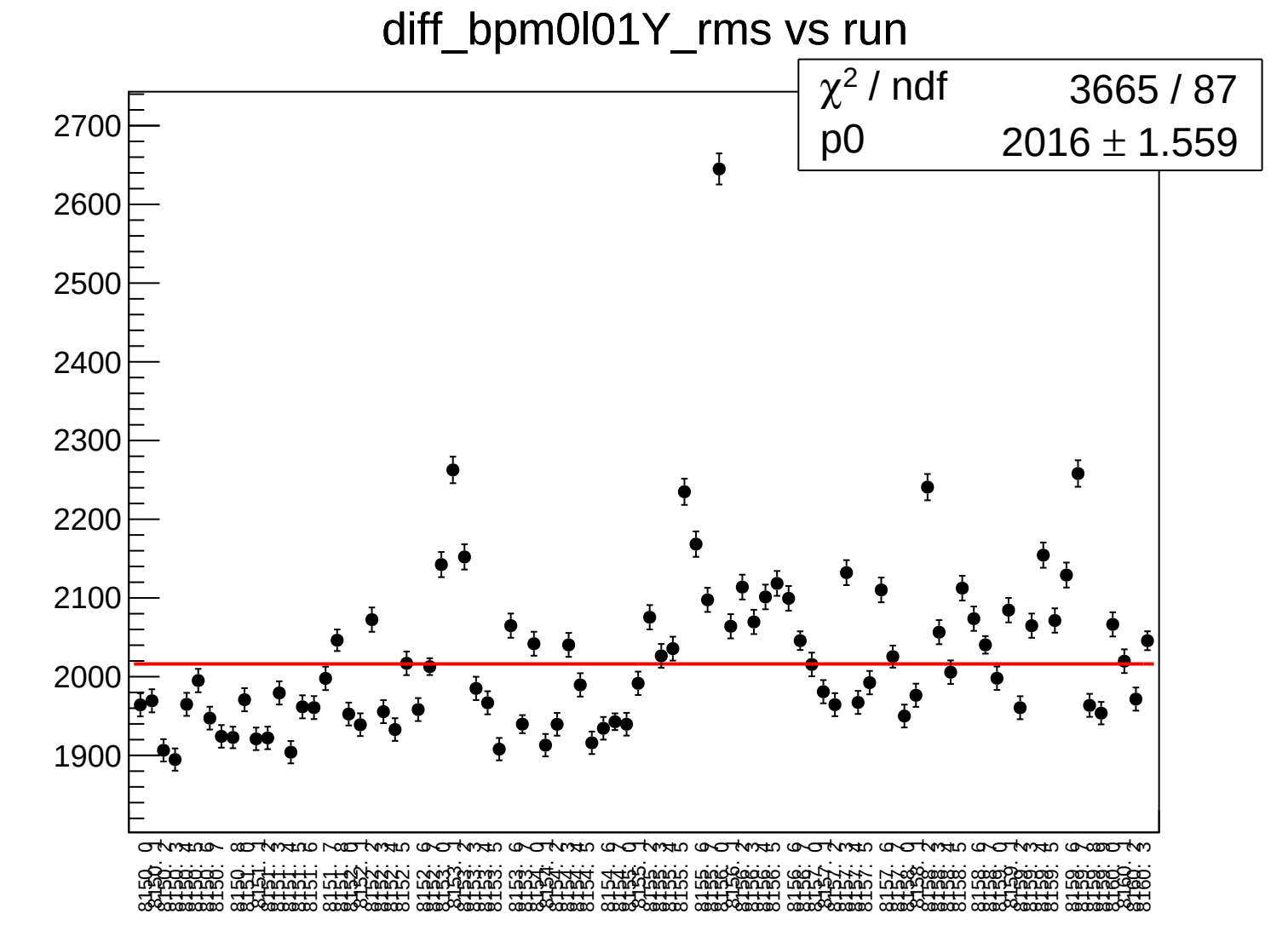

diff_bpm0i01aY_rms vs run
χ² / ndf 150.8 / 87
p0 1095 ± 0.8454
1140
1130
1120
1110
1100
1090
1080
1070
1060

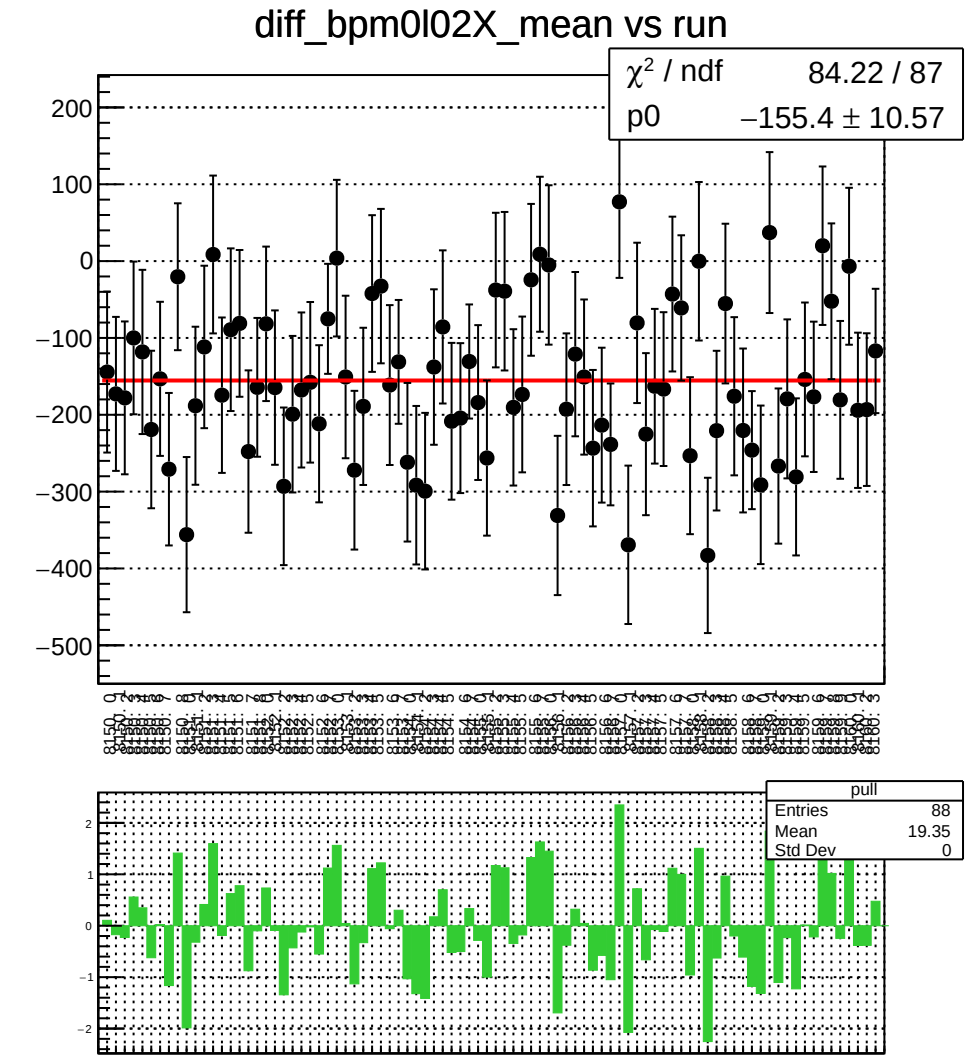

diff_bpm0l01X_mean vs run
χ² / ndf 86.15 / 87
p0 −96.43 ± 3.456
pull
Entries 88
Mean −133.7
Std Dev 0
pull1D
Entries 88
Mean −0.01309
Std Dev 0.9893

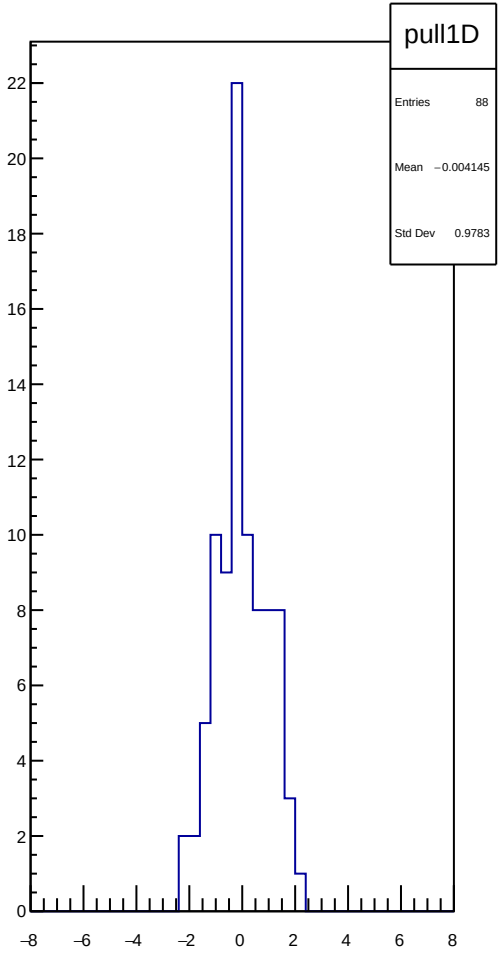

diff_bpm0l01X_rms vs run
χ^2 / ndf 202.1 / 87
p0 3164 ± 2.443
3250
3200
3150
3100
3050

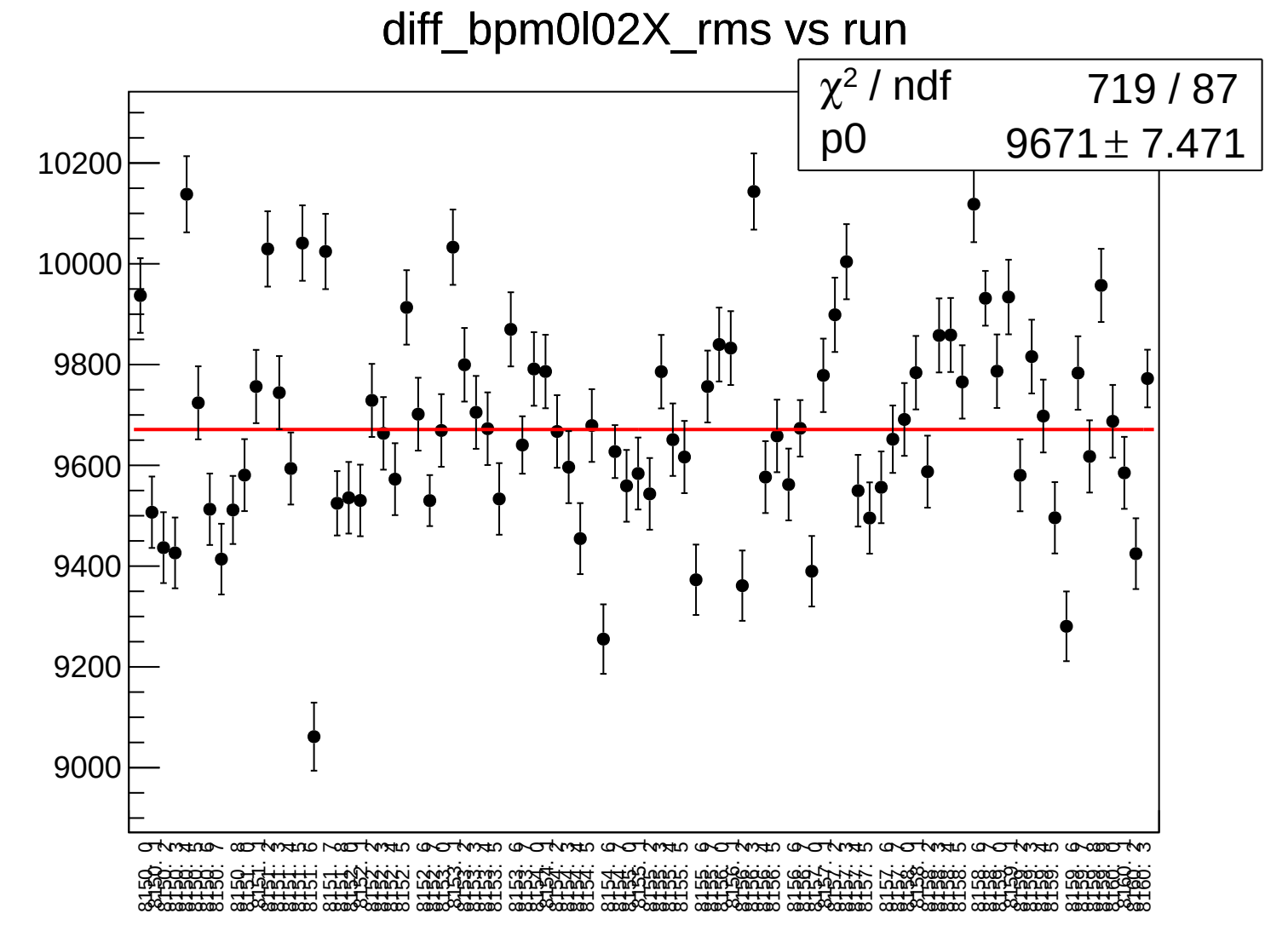

diff_bpm0l01Y_mean vs run
χ^2 / ndf 114.2 / 87
p0 179.8 ± 2.205
pull
Entries 88
Mean 2108
Std Dev 0

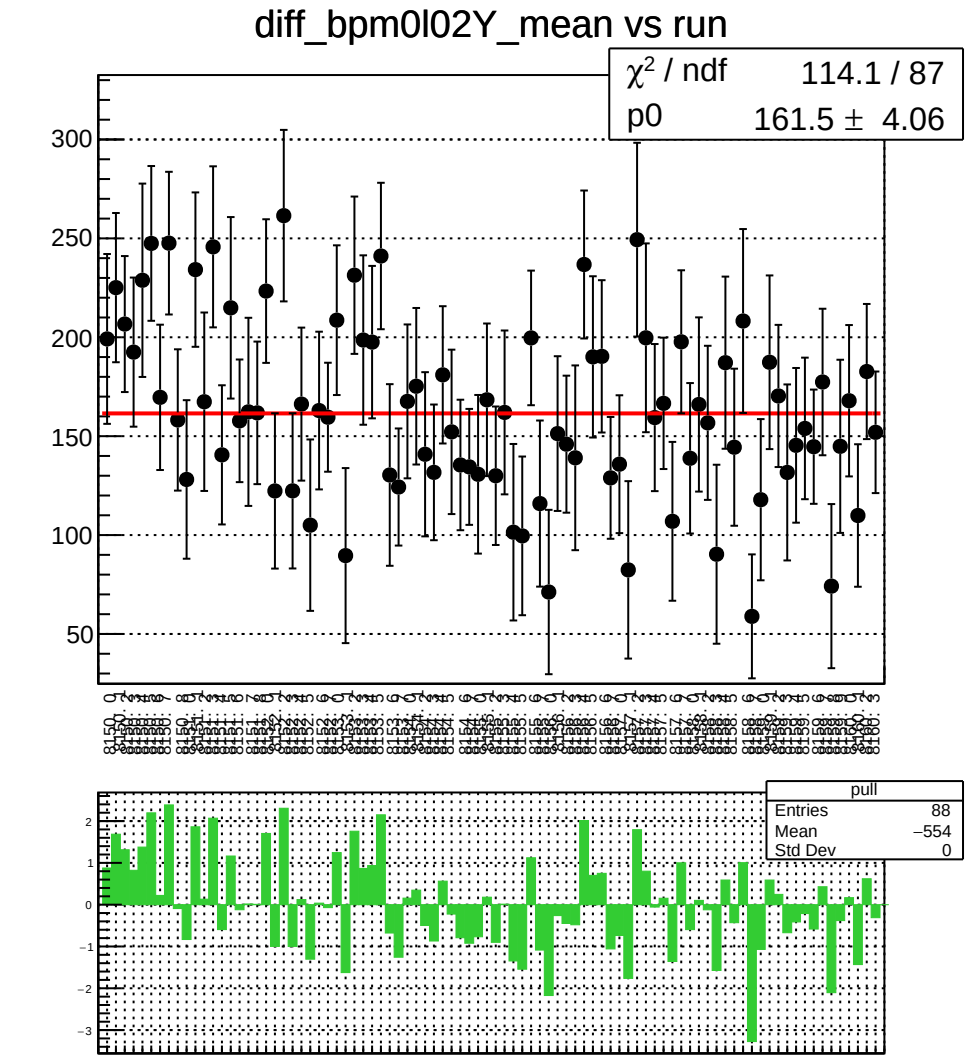

pull1D
Entries 88
Mean −0.004881
Std Dev 1.139

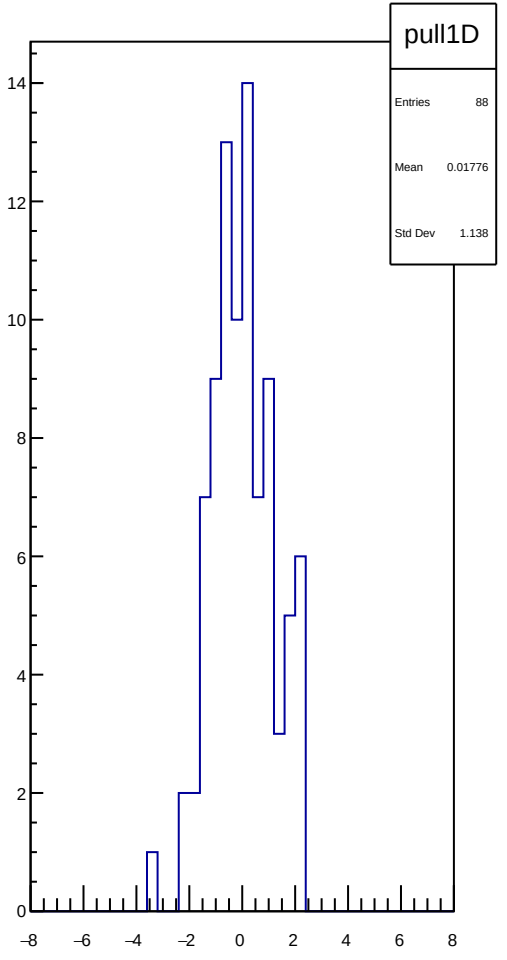

diff_bpm0l01Y_rms vs run
χ² / ndf 3665 / 87
p0 2016 ± 1.559
2700
2600
2500
2400
2300
2200
2100
2000
1900

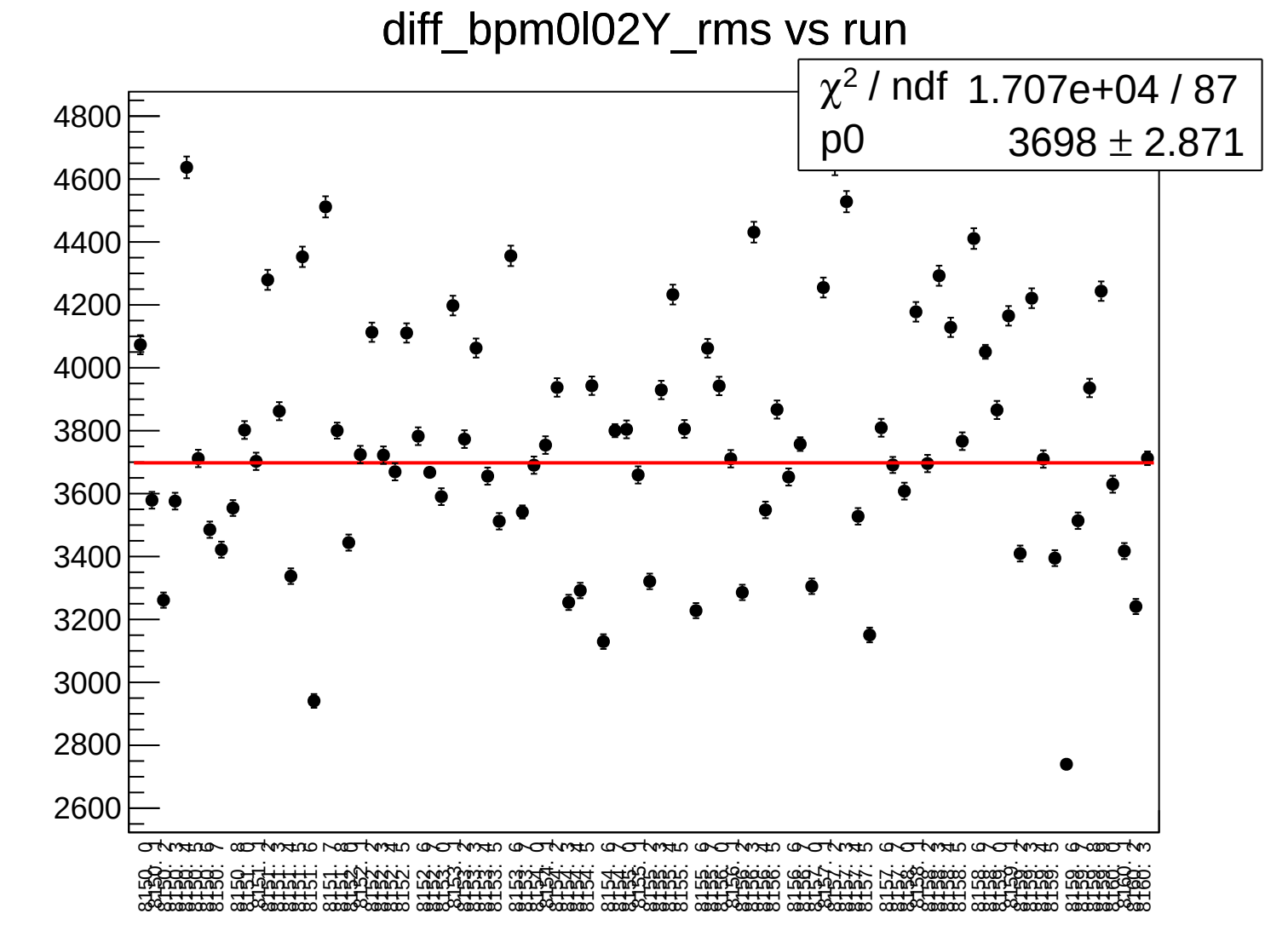

diff_bpm0l02X_mean vs run
χ² / ndf 84.22 / 87
p0 −155.4 ± 10.57
pull
Entries 88
Mean 19.35
Std Dev 0

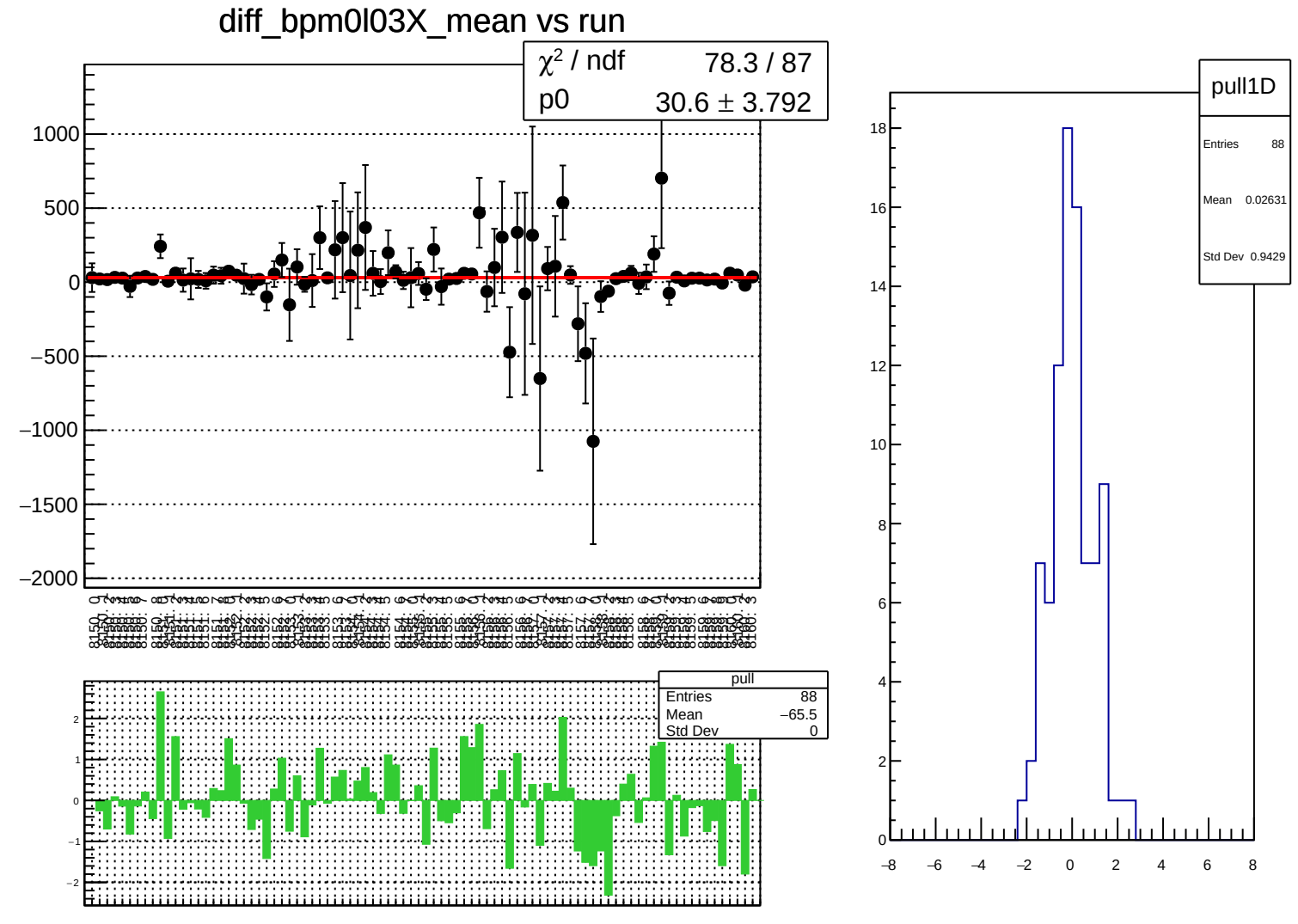

pull1D
Entries 88
Mean −0.004145
Std Dev 0.9783

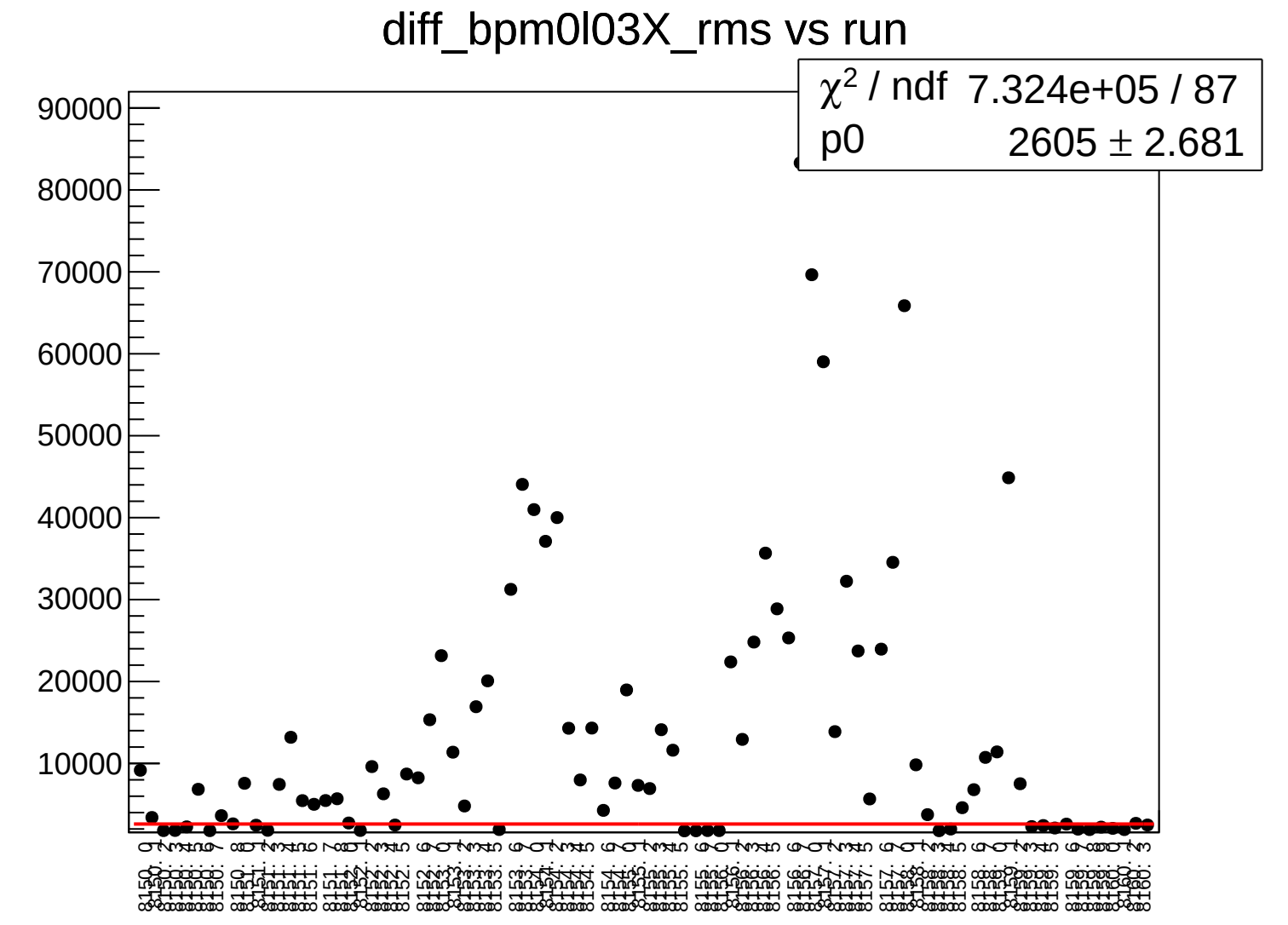

diff_bpm0l02X_rms vs run
χ² / ndf 719 / 87
p0 9671 ± 7.471
10200
10000
9800
9600
9400
9200
9000

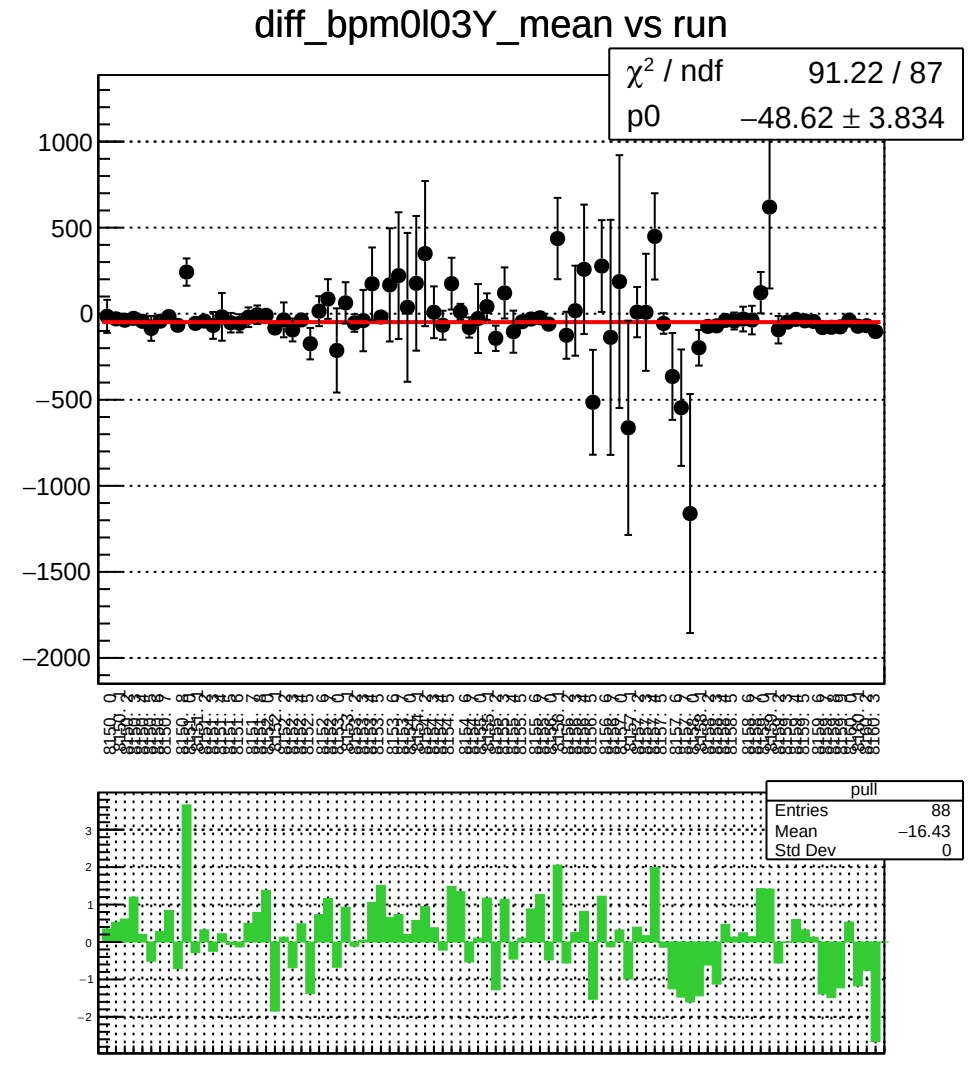

diff_bpm0l02Y_mean vs run
χ² / ndf 114.1 / 87
p0 161.5 ± 4.06
300
250
200
150
100
50
pull
Entries 88
Mean −554
Std Dev 0
2
1
0
−1
−2
−3

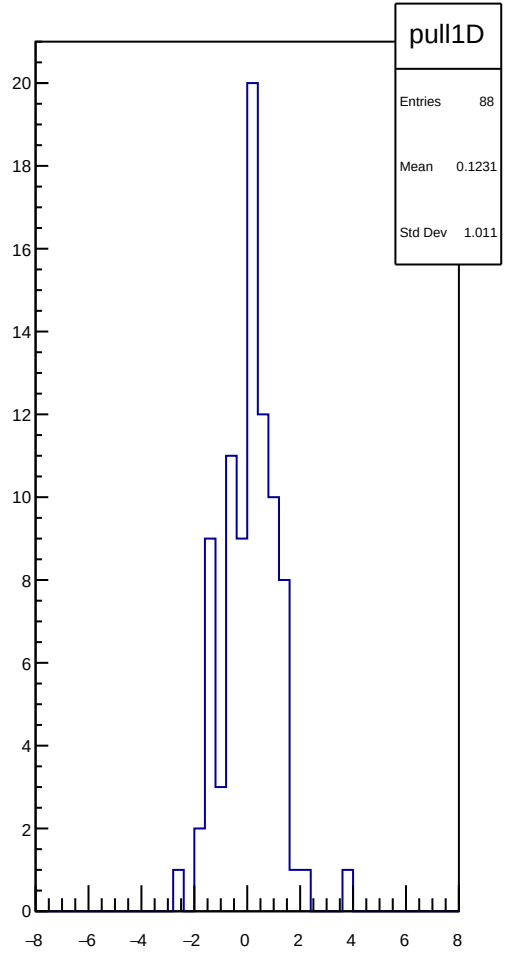

pull1D
Entries 88
Mean 0.01776
Std Dev 1.138
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

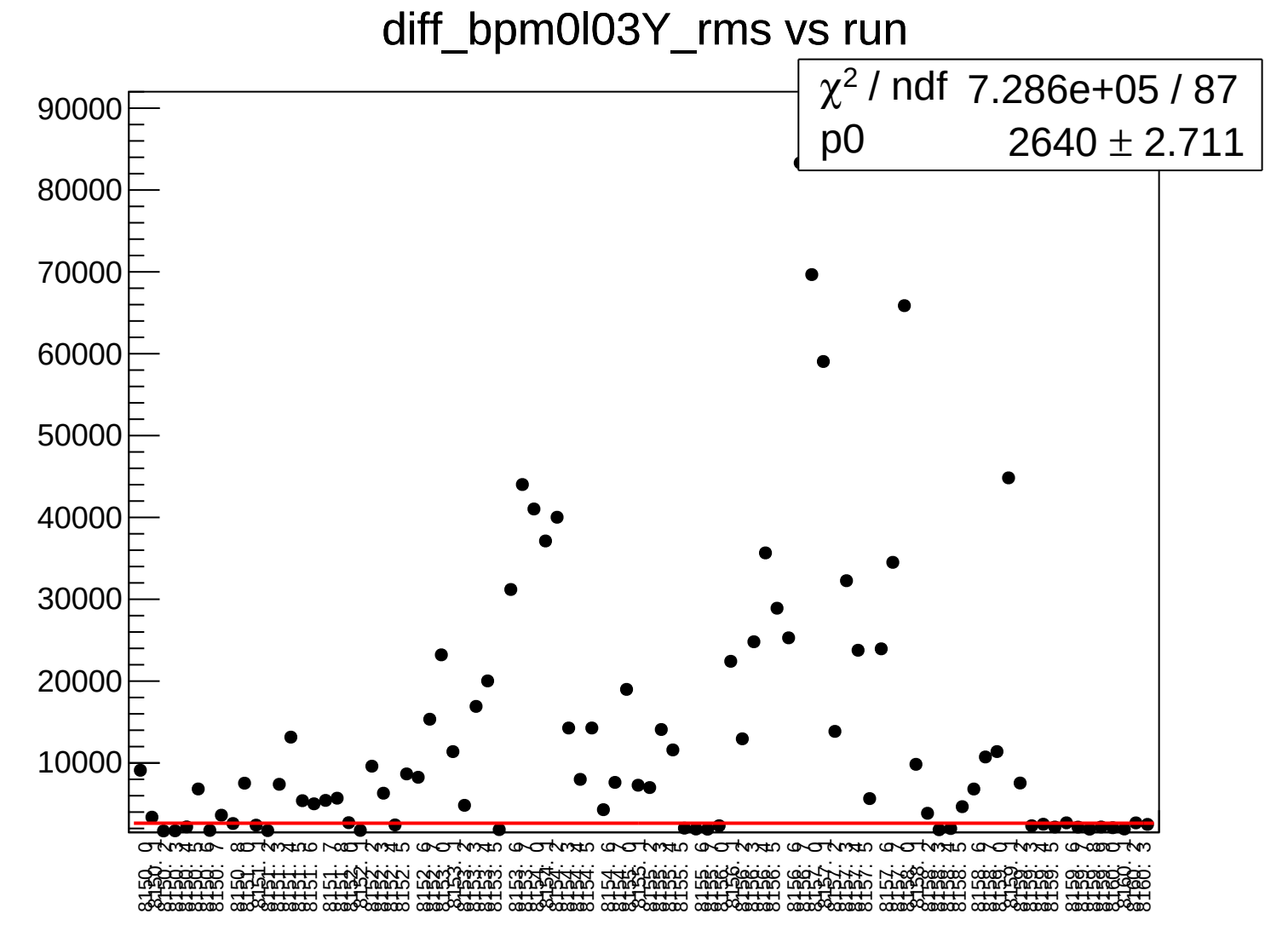

diff_bpm0l02Y_rms vs run
χ² / ndf 1.707e+04 / 87
p0 3698 ± 2.871
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

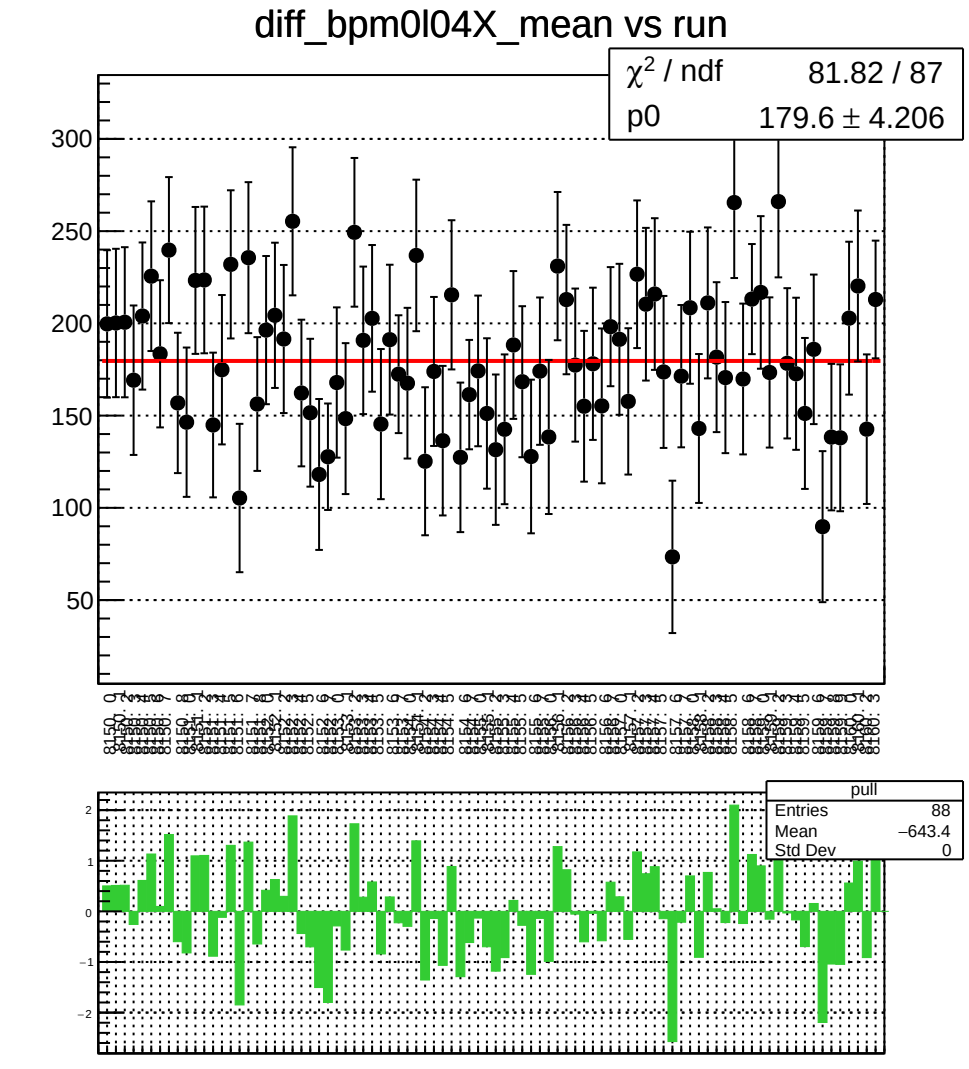

diff_bpm0l03X_mean vs run
χ² / ndf 78.3 / 87
p0 30.6 ± 3.792
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 88
Mean −65.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.02631
Std Dev 0.9429
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

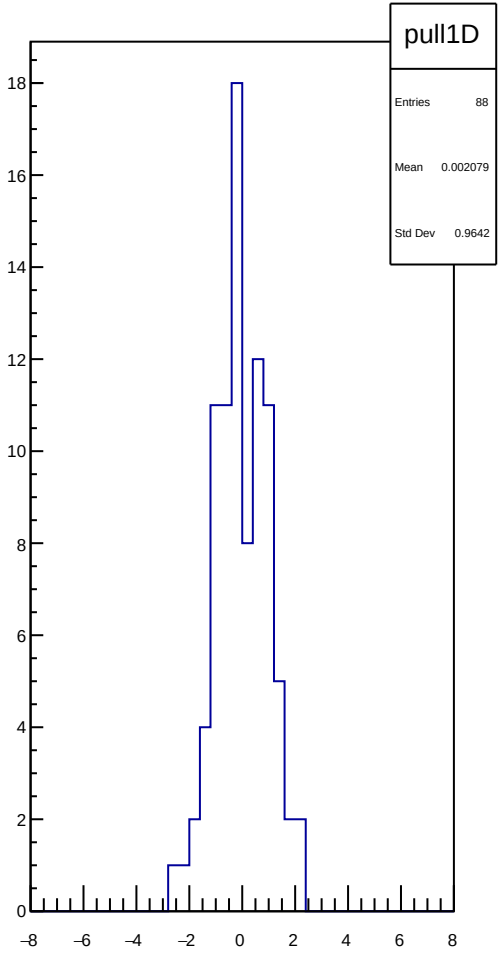

diff_bpm0l03X_rms vs run
χ^2 / ndf 7.324e+05 / 87
p0 2605 ± 2.681
90000
80000
70000
60000
50000
40000
30000
20000
10000

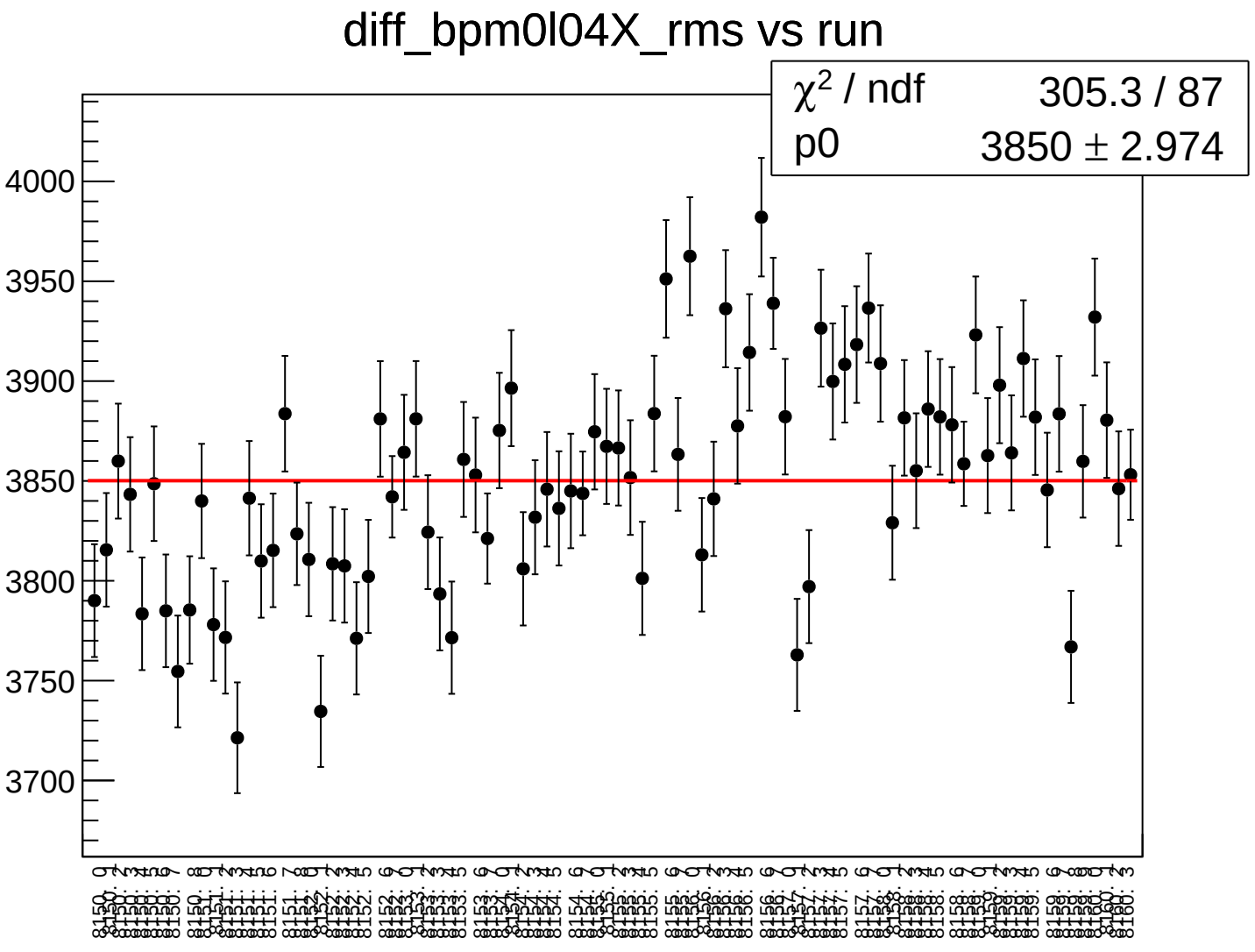

diff_bpm0l03Y_mean vs run
χ² / ndf 91.22 / 87
p0 −48.62 ± 3.834
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 88
Mean −16.43
Std Dev 0
3
2
1
0
−1
−2

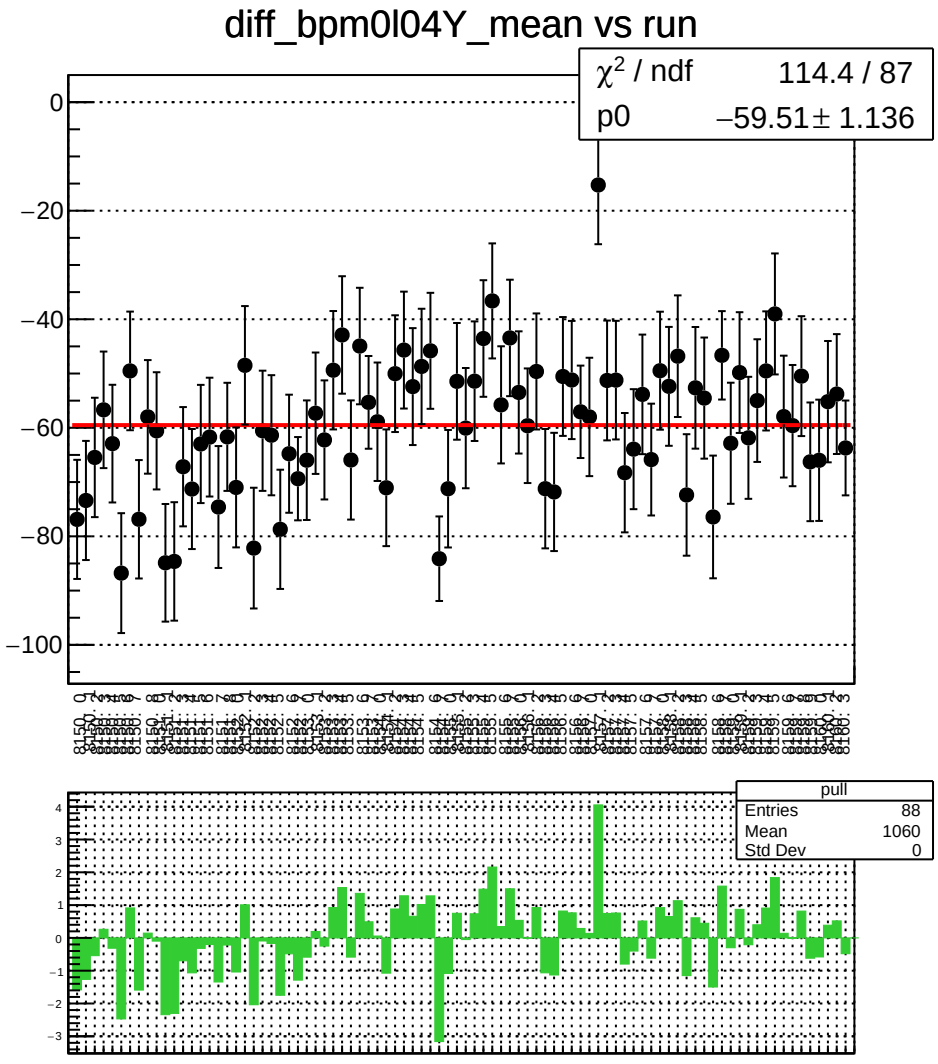

pull1D
Entries 88
Mean 0.1231
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

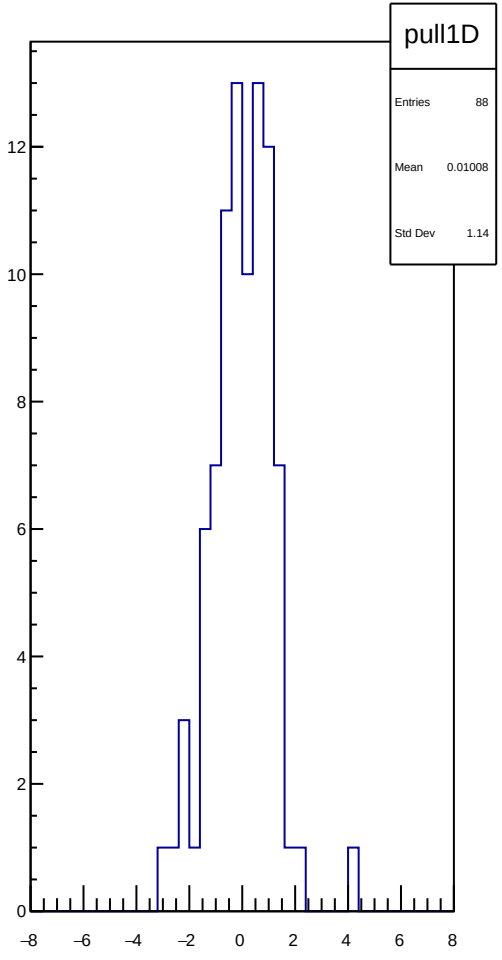

diff_bpm0l03Y_rms vs run
χ^2 / ndf 7.286e+05 / 87
p0 2640 ± 2.711
90000
80000
70000
60000
50000
40000
30000
20000
10000

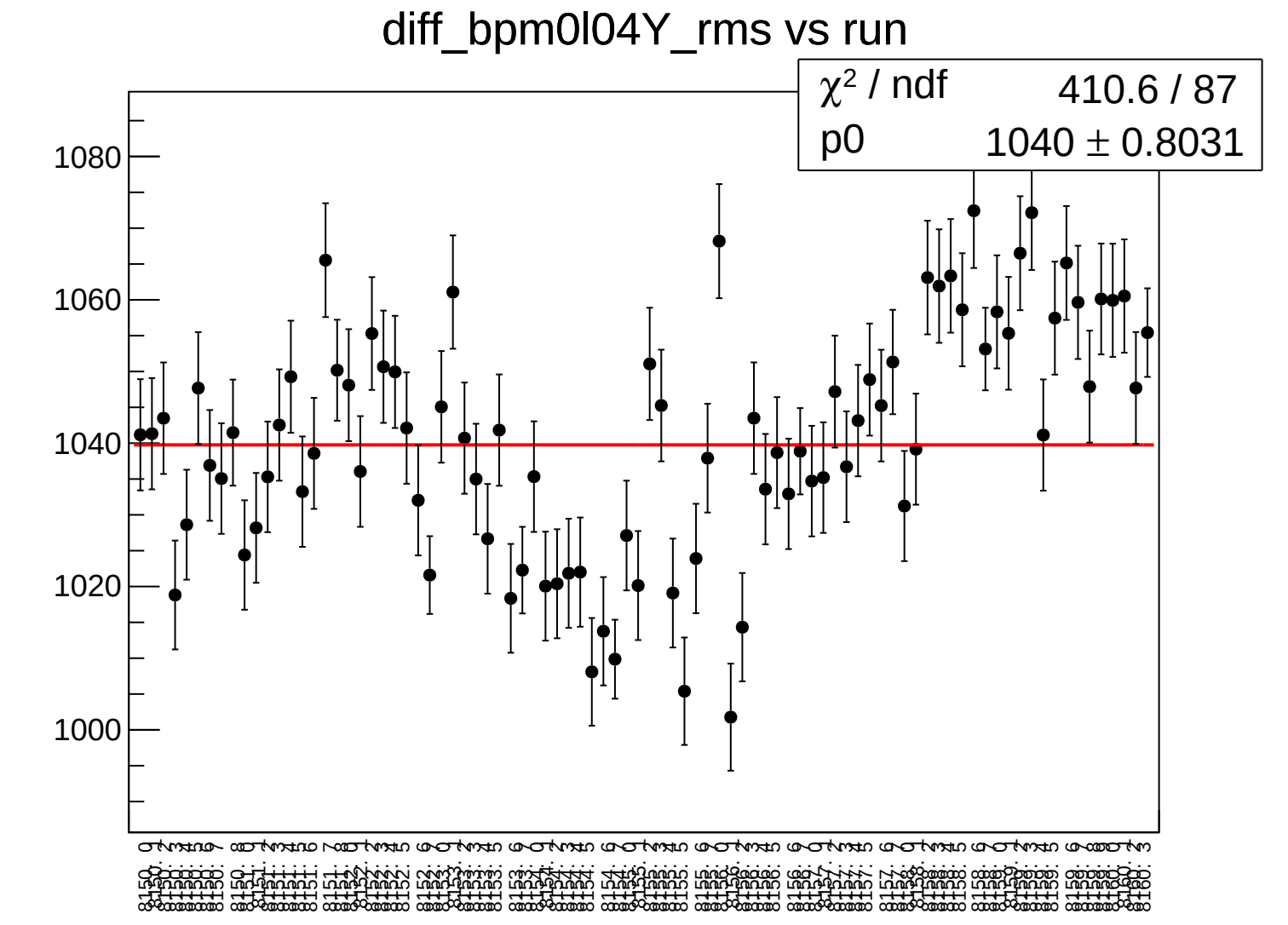

diff_bpm0l04X_mean vs run
χ² / ndf 81.82 / 87
p0 179.6 ± 4.206
300
250
200
150
100
50
pull
Entries 88
Mean −643.4
Std Dev 0
2
1
0
−1
−2

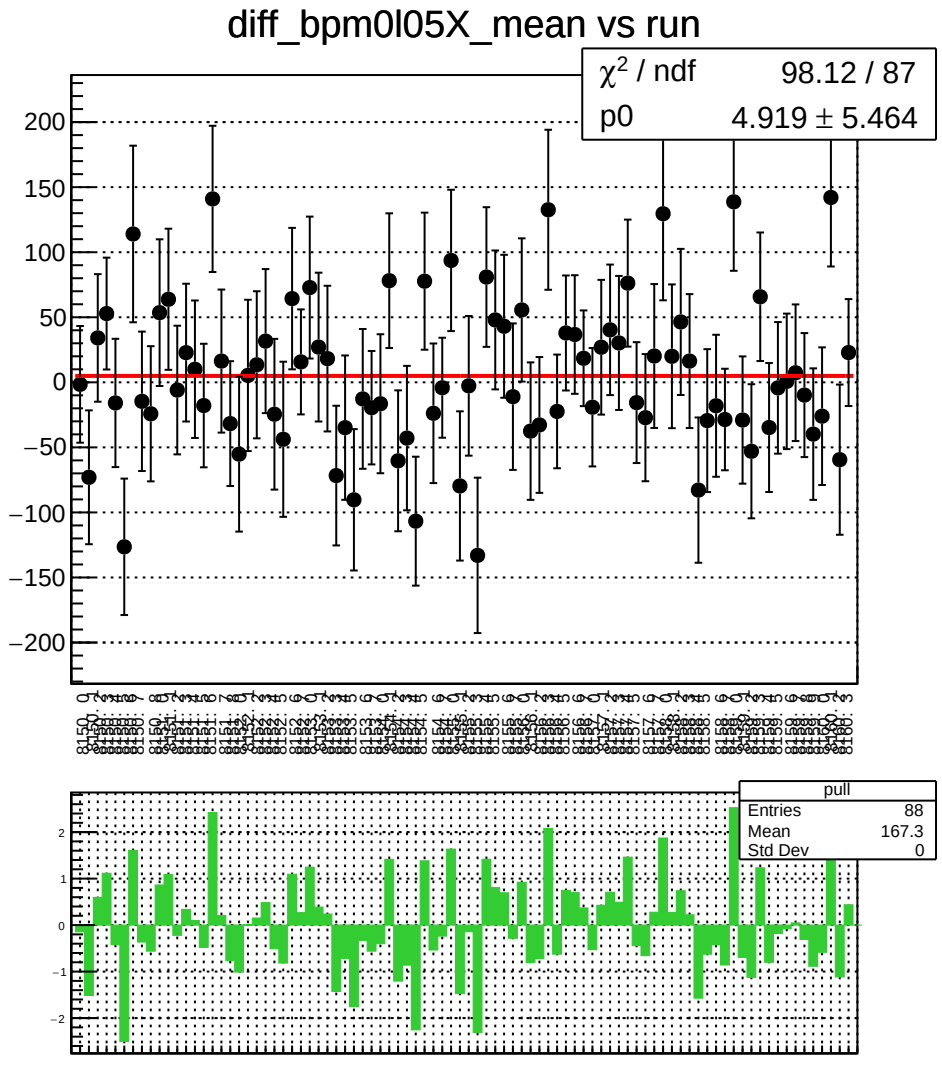

pull1D
Entries 88
Mean 0.002079
Std Dev 0.9642
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

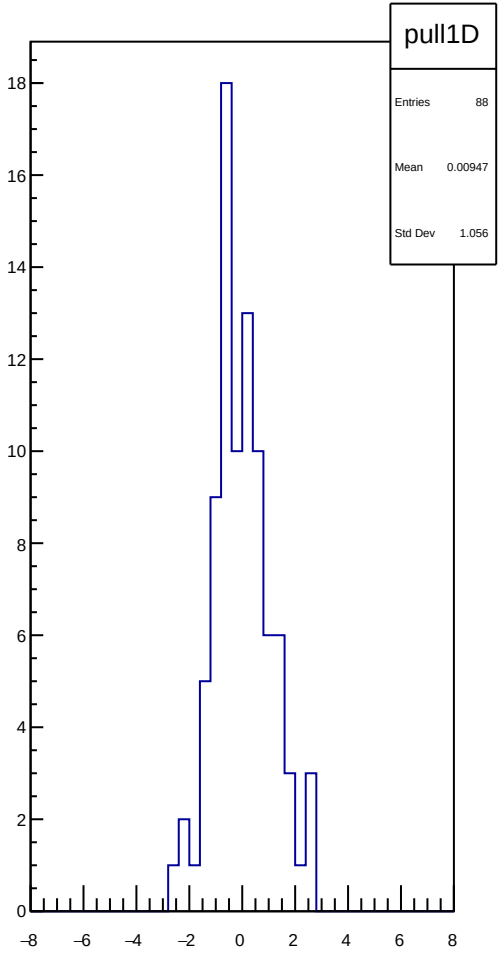

diff_bpm0l04X_rms vs run
χ² / ndf 305.3 / 87
p0 3850 ± 2.974
4000
3950
3900
3850
3800
3750
3700

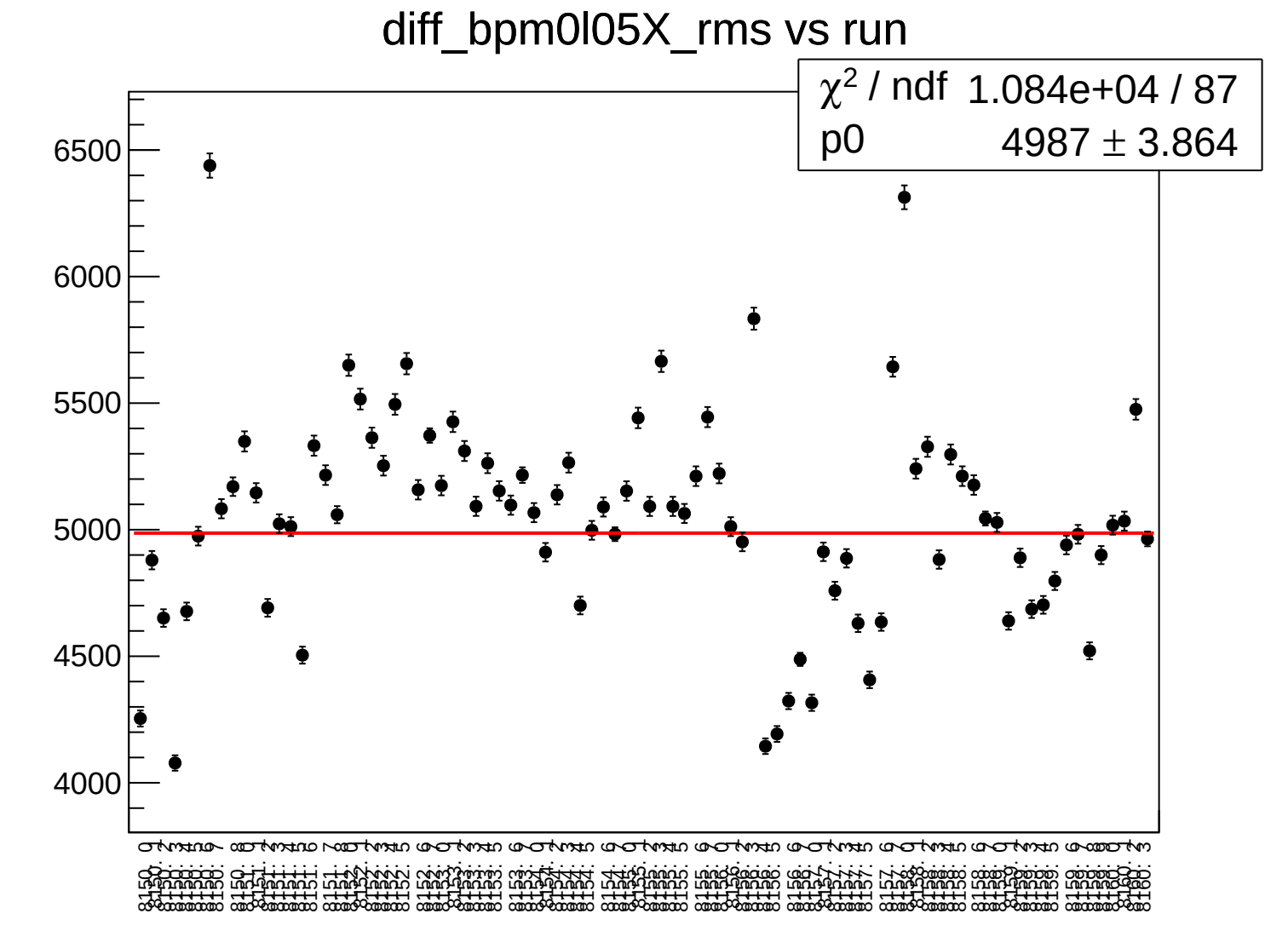

diff_bpm0l04Y_mean vs run
χ² / ndf 114.4 / 87
p0 −59.51 ± 1.136
pull
Entries 88
Mean 1060
Std Dev 0

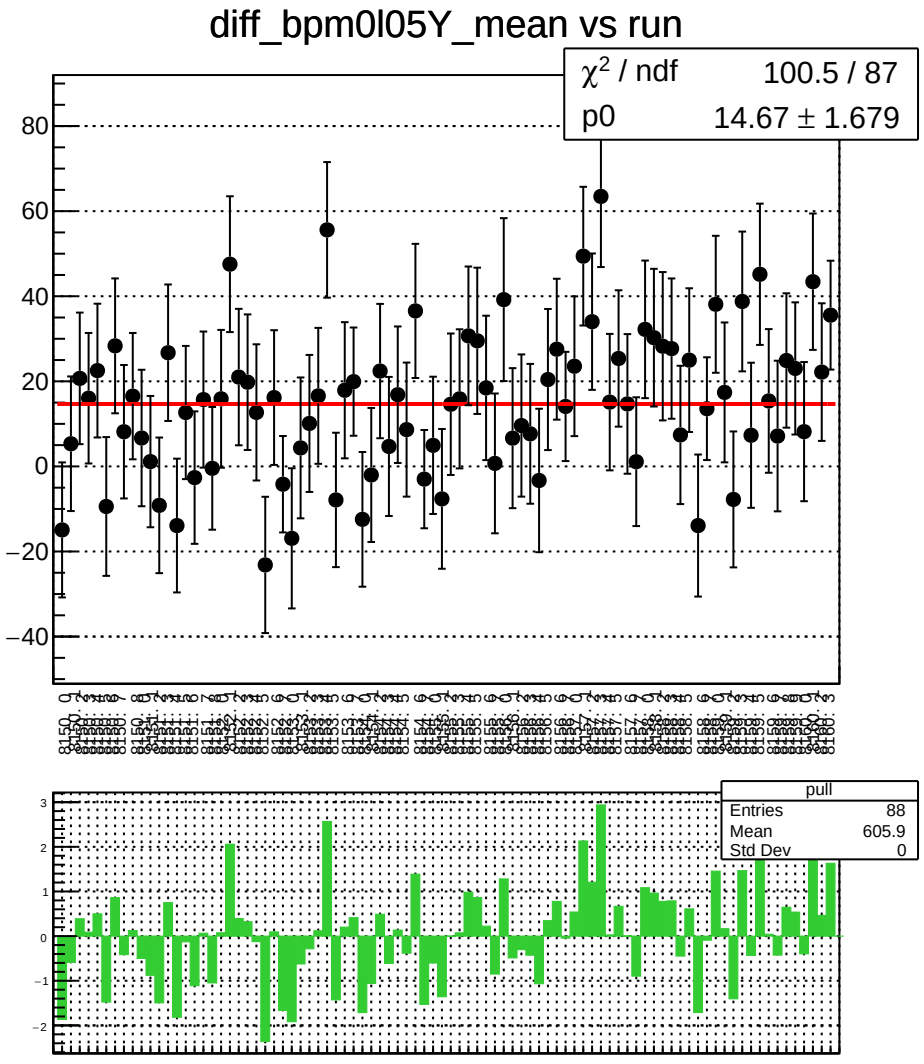

pull1D
Entries 88
Mean 0.01008
Std Dev 1.14

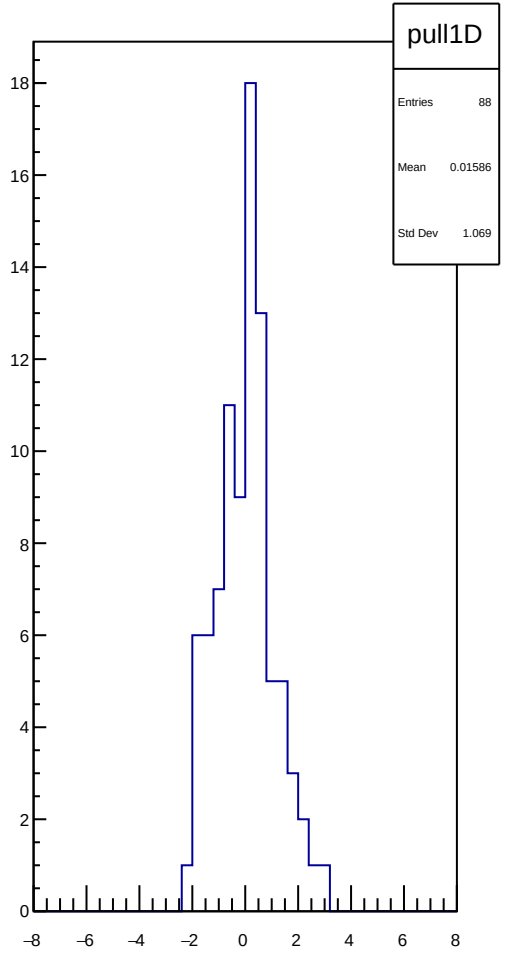

diff_bpm0l04Y_rms vs run
χ² / ndf 410.6 / 87
p0 1040 ± 0.8031
1080
1060
1040
1020
1000

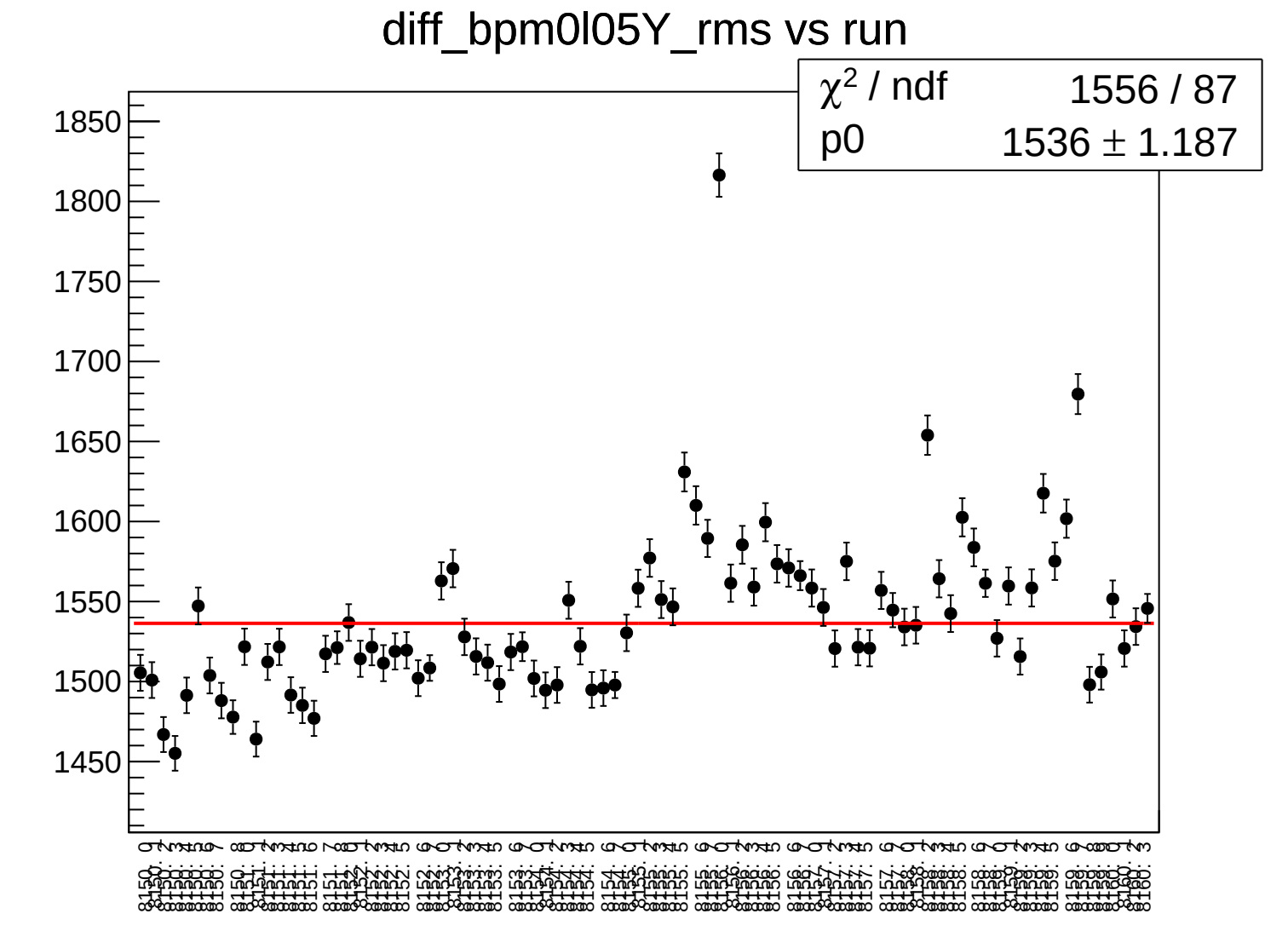

diff_bpm0l05X_mean vs run
χ^2 / ndf 98.12 / 87
p0 4.919 ± 5.464
pull
Entries 88
Mean 167.3
Std Dev 0

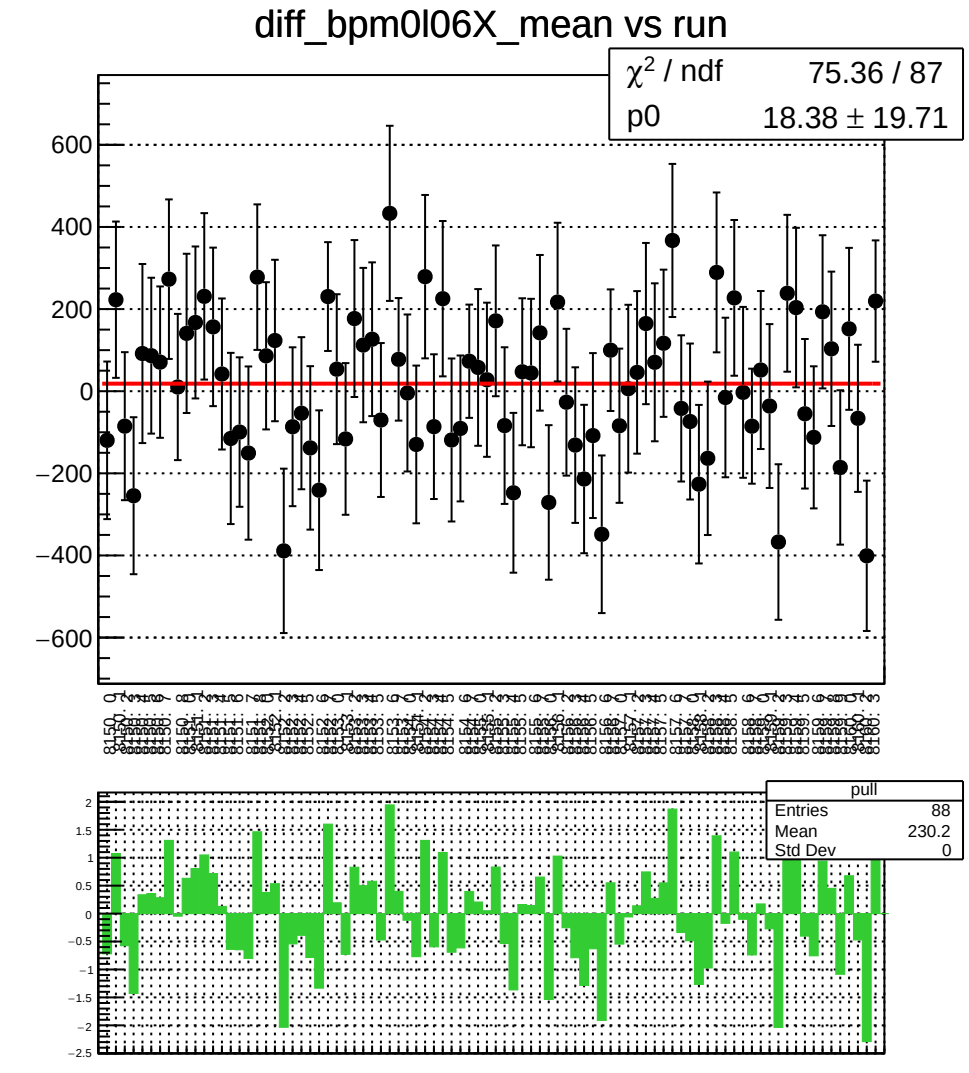

pull1D
Entries 88
Mean 0.00947
Std Dev 1.056

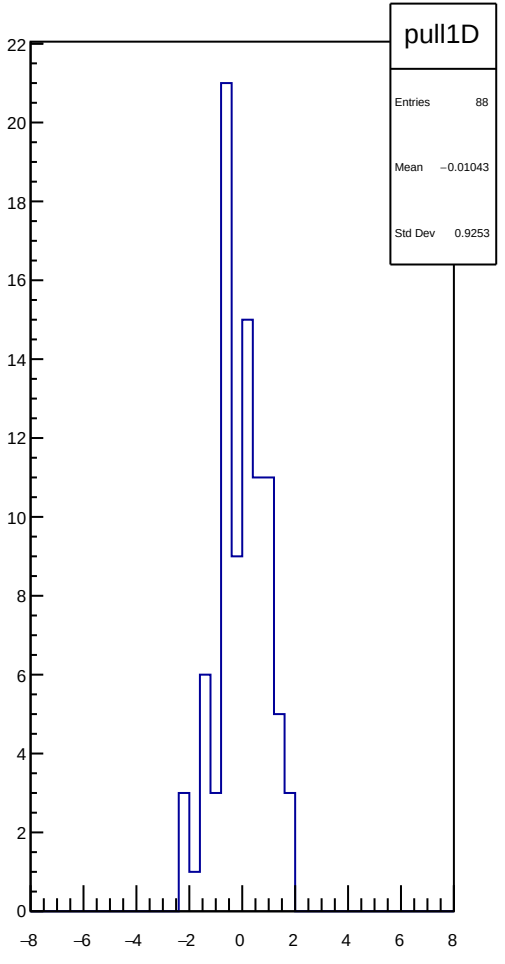

diff_bpm0l05X_rms vs run
χ² / ndf 1.084e+04 / 87
p0 4987 ± 3.864
6500
6000
5500
5000
4500
4000

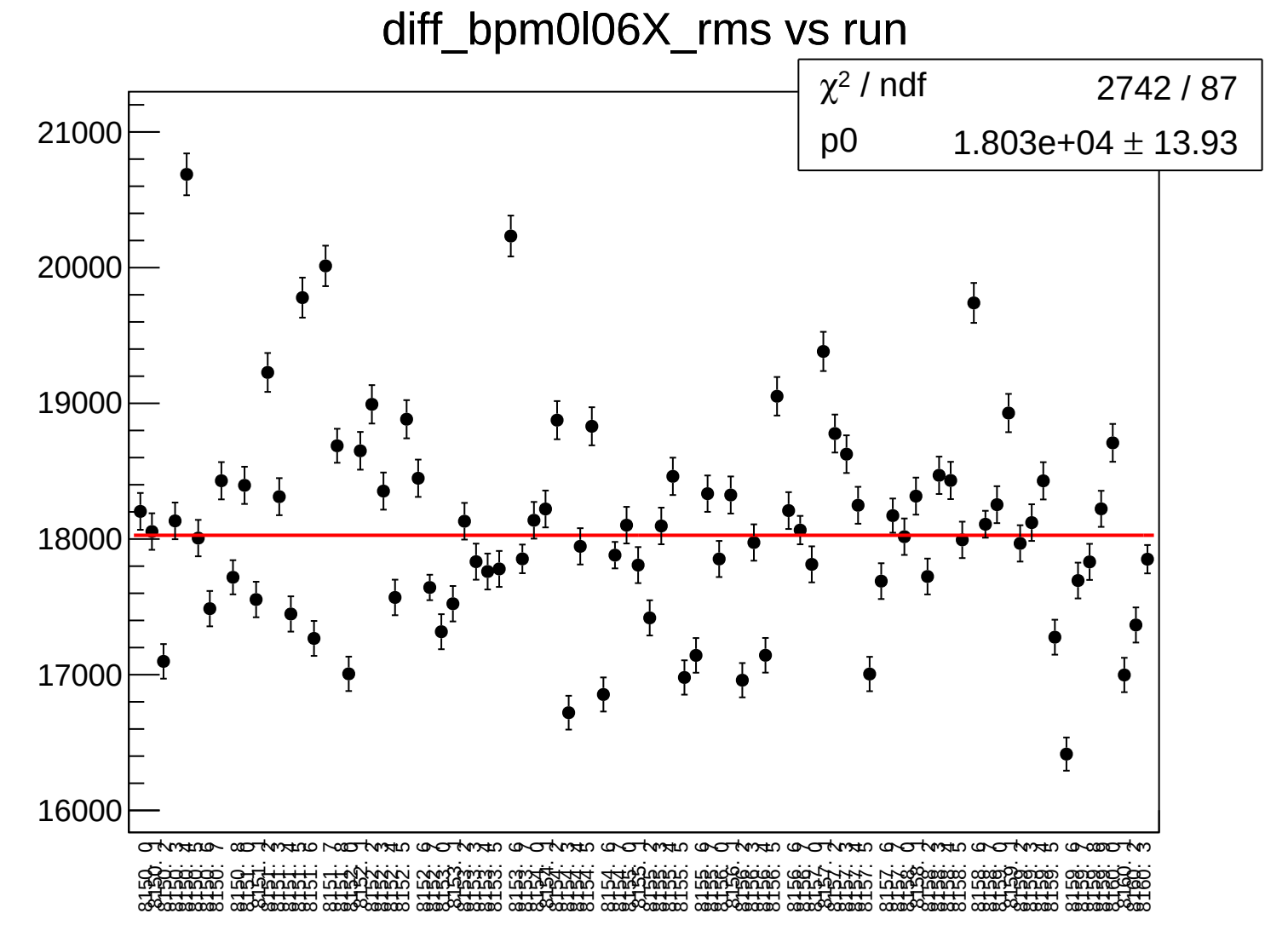

diff_bpm0l05Y_mean vs run
χ^2 / ndf 100.5 / 87
p0 14.67 ± 1.679
pull
Entries 88
Mean 605.9
Std Dev 0

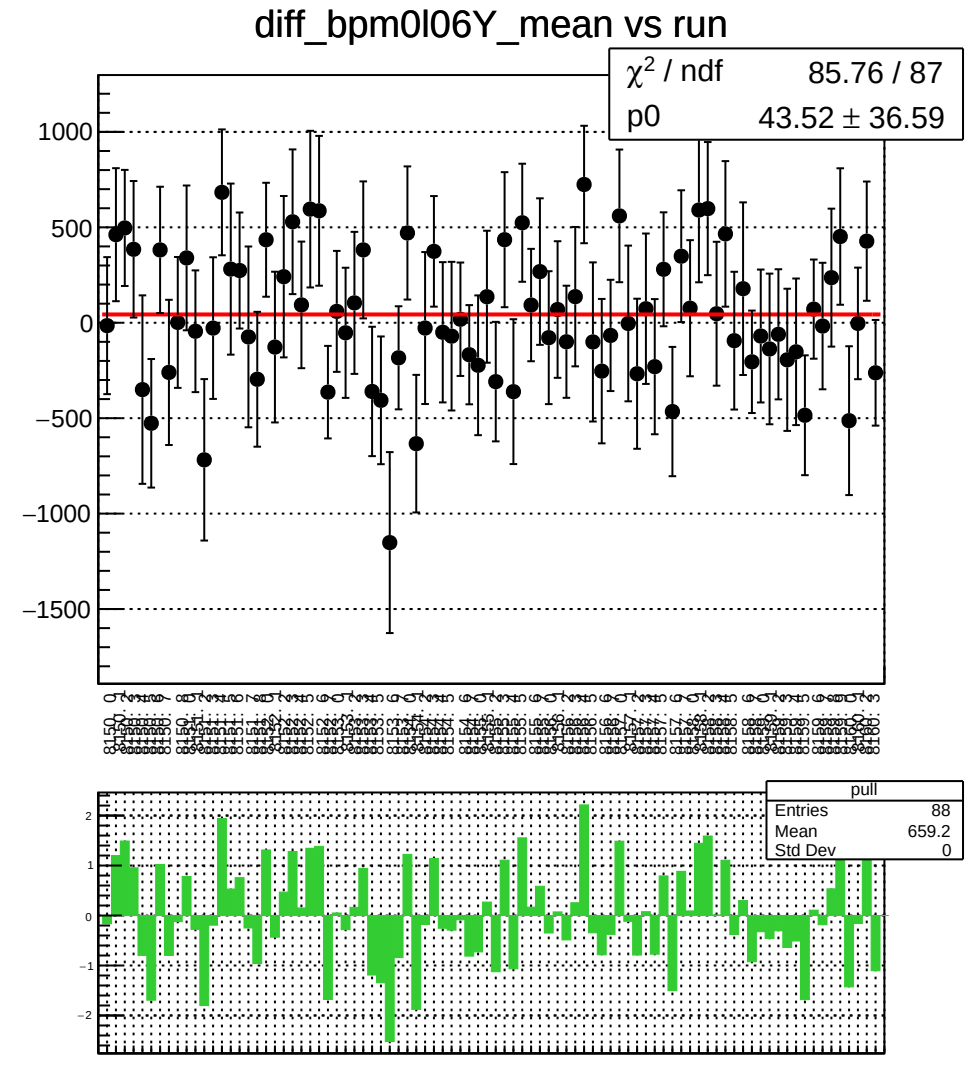

pull1D
Entries 88
Mean 0.01586
Std Dev 1.069

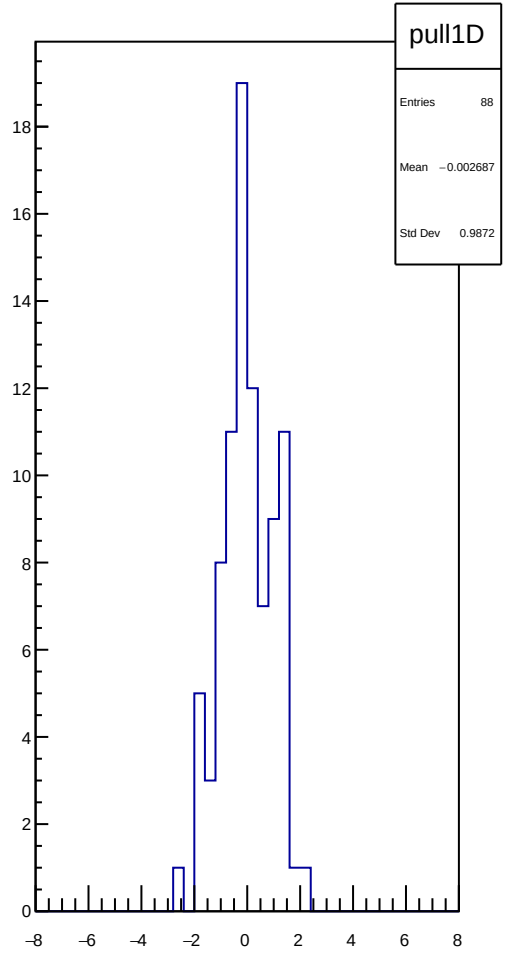

diff_bpm0l05Y_rms vs run
χ² / ndf 1556 / 87
p0 1536 ± 1.187
1850
1800
1750
1700
1650
1600
1550
1500
1450

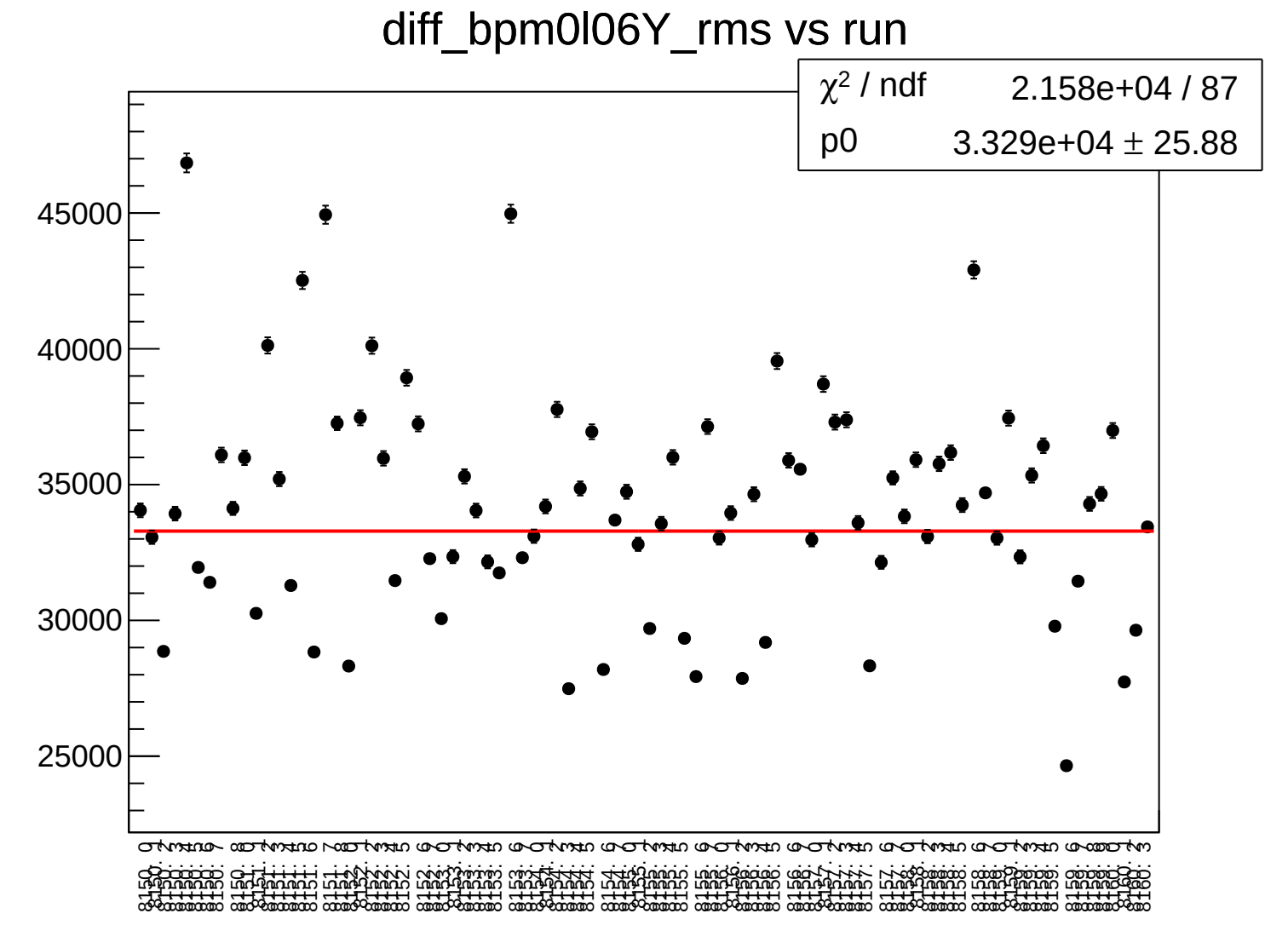

diff_bpm0l06X_mean vs run
χ² / ndf 75.36 / 87
p0 18.38 ± 19.71
pull
Entries 88
Mean 230.2
Std Dev 0

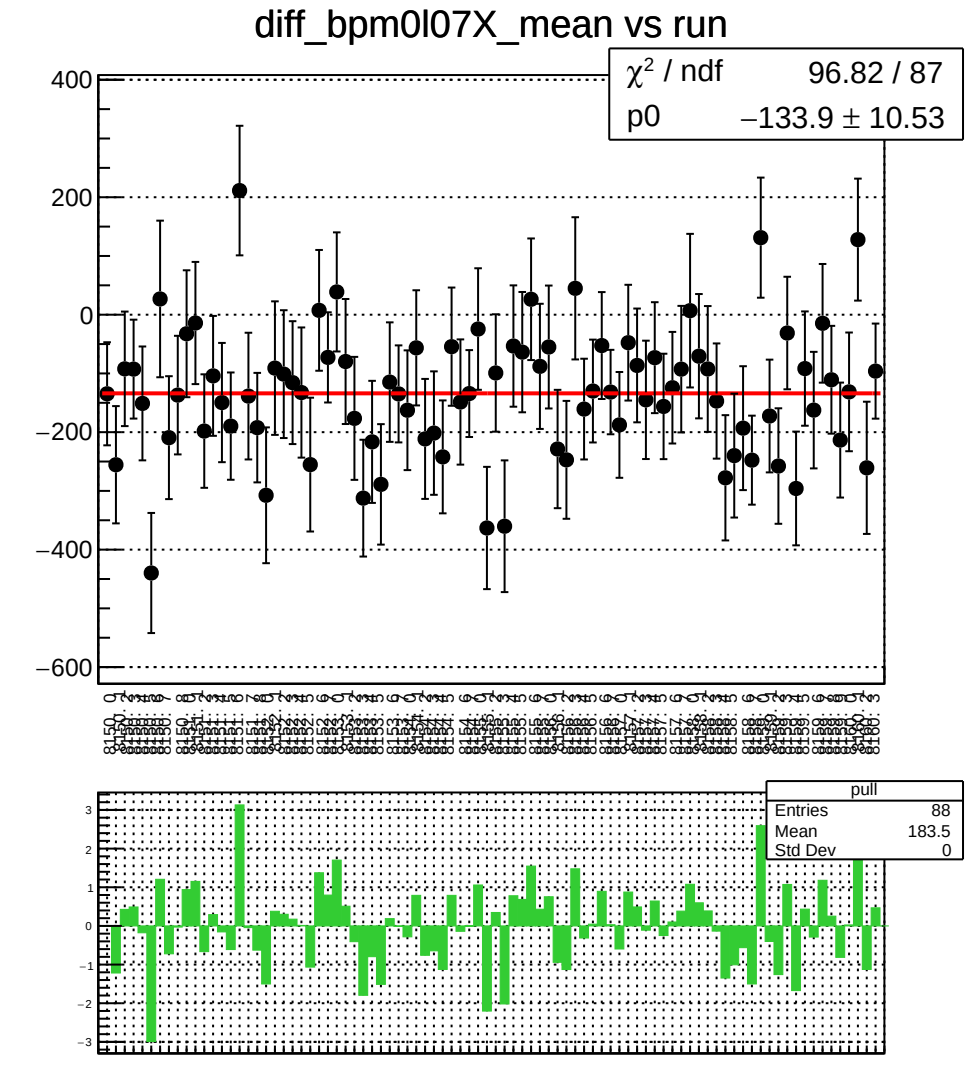

pull1D
Entries 88
Mean −0.01043
Std Dev 0.9253

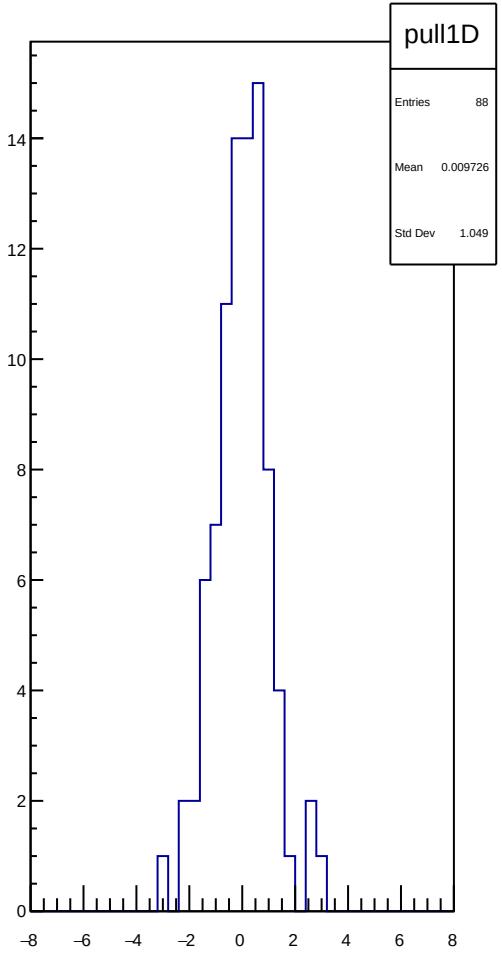

diff_bpm0l06X_rms vs run
χ² / ndf 2742 / 87
p0 1.803e+04 ± 13.93
21000
20000
19000
18000
17000
16000

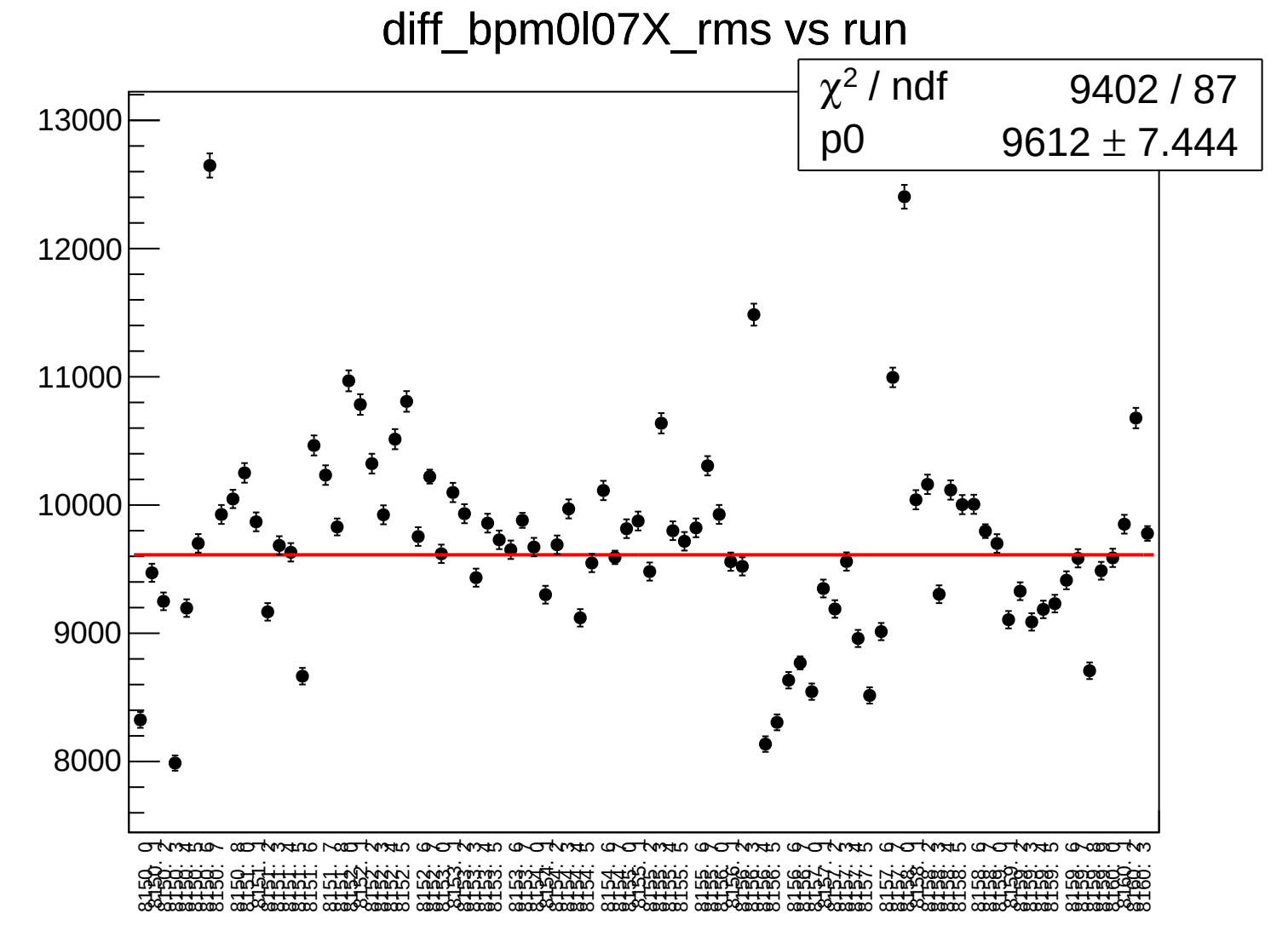

diff_bpm0l06Y_mean vs run
χ² / ndf 85.76 / 87
p0 43.52 ± 36.59
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean 659.2
Std Dev 0
2
1
0
−1
−2

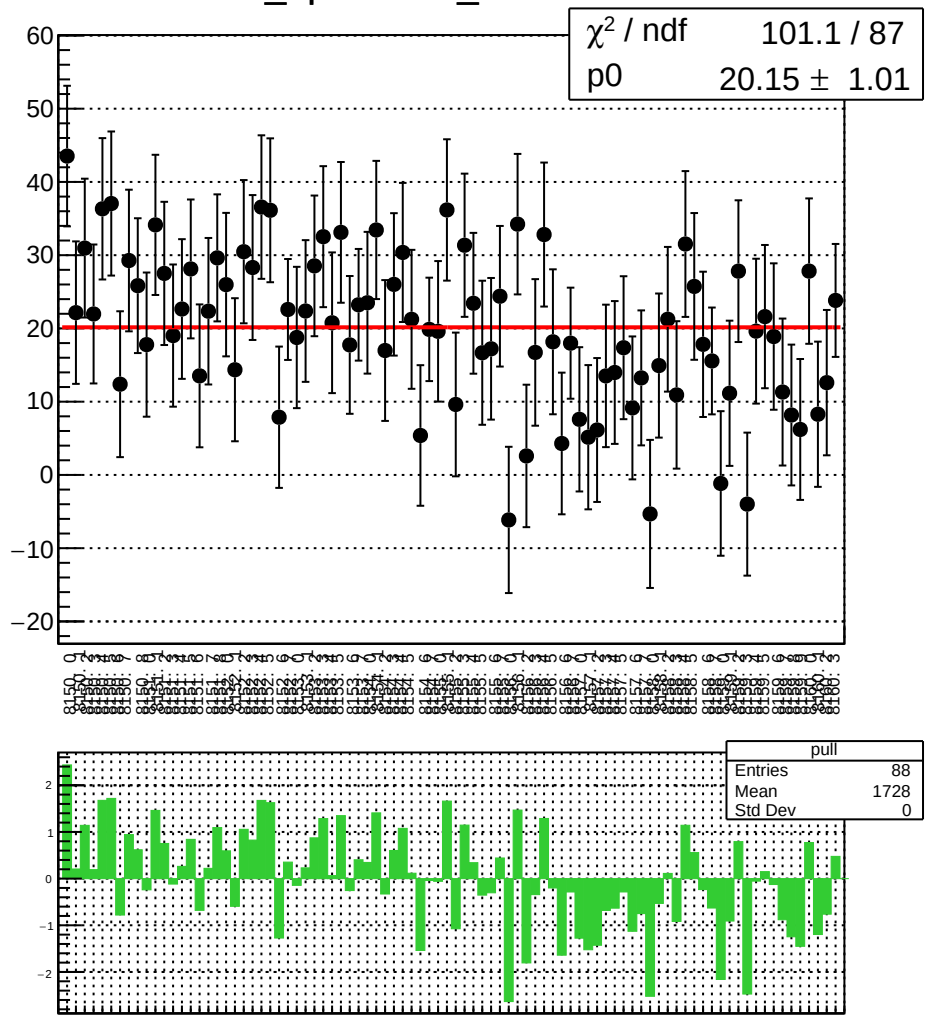

pull1D
Entries 88
Mean −0.002687
Std Dev 0.9872
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

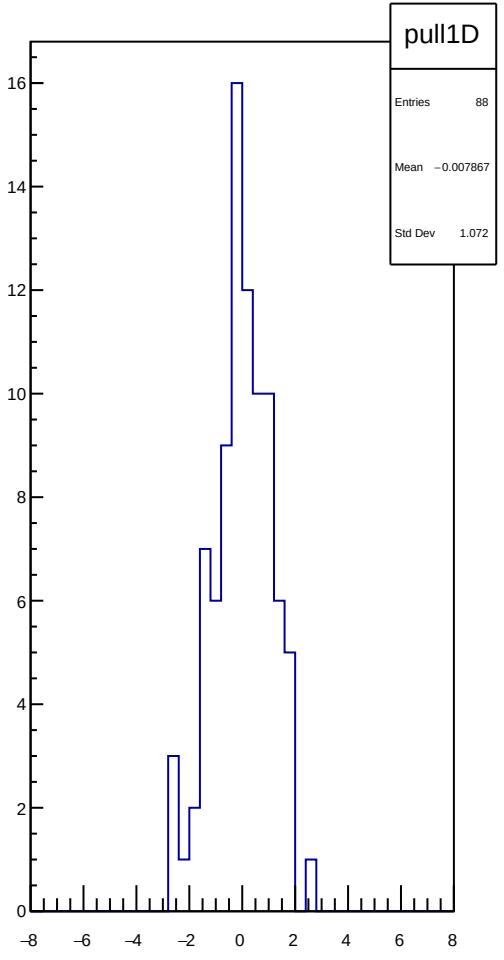

diff_bpm0l06Y_rms vs run
χ² / ndf 2.158e+04 / 87
p0 3.329e+04 ± 25.88
45000
40000
35000
30000
25000

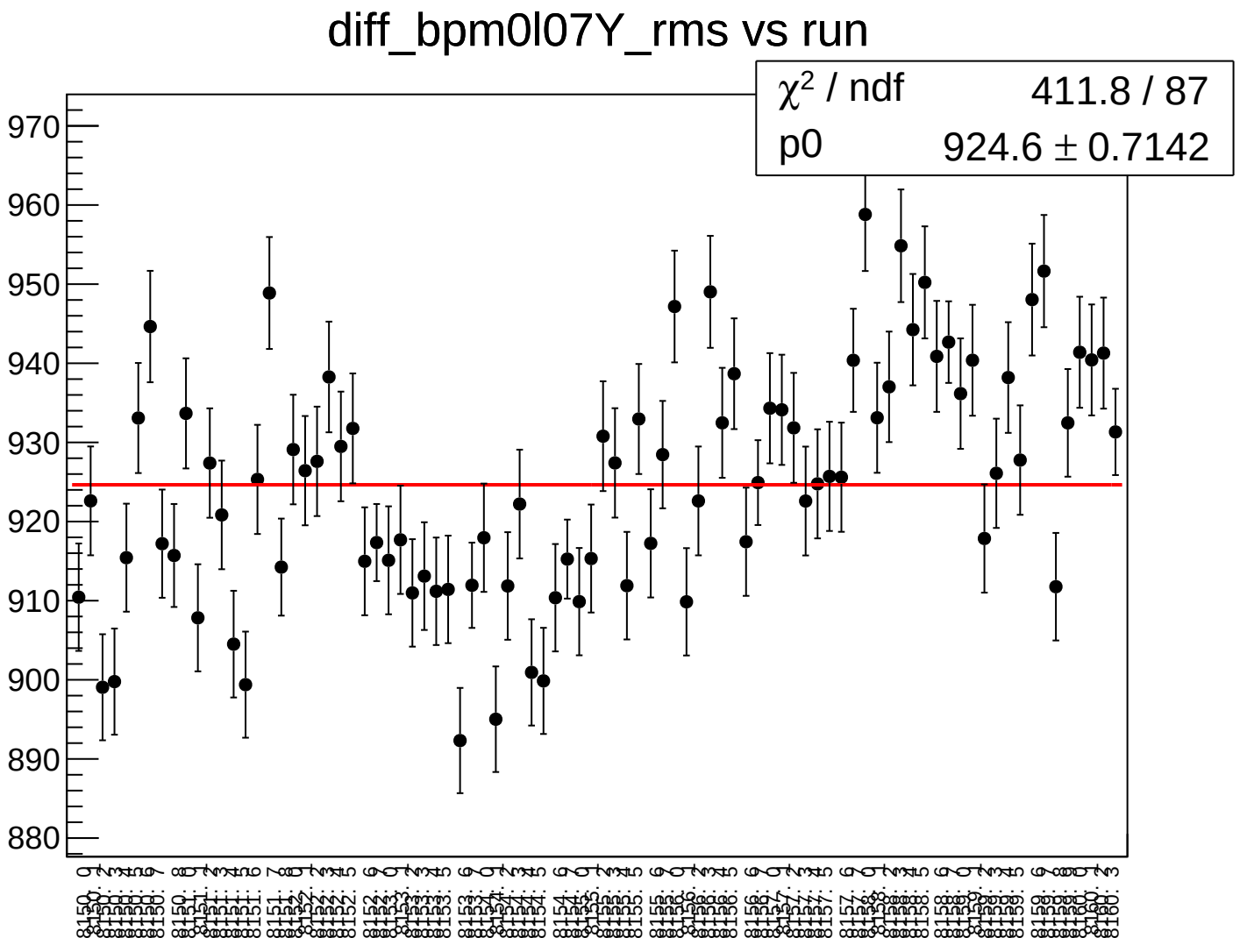

diff_bpm0l07X_mean vs run
χ² / ndf 96.82 / 87
p0 −133.9 ± 10.53
pull
Entries 88
Mean 183.5
Std Dev 0

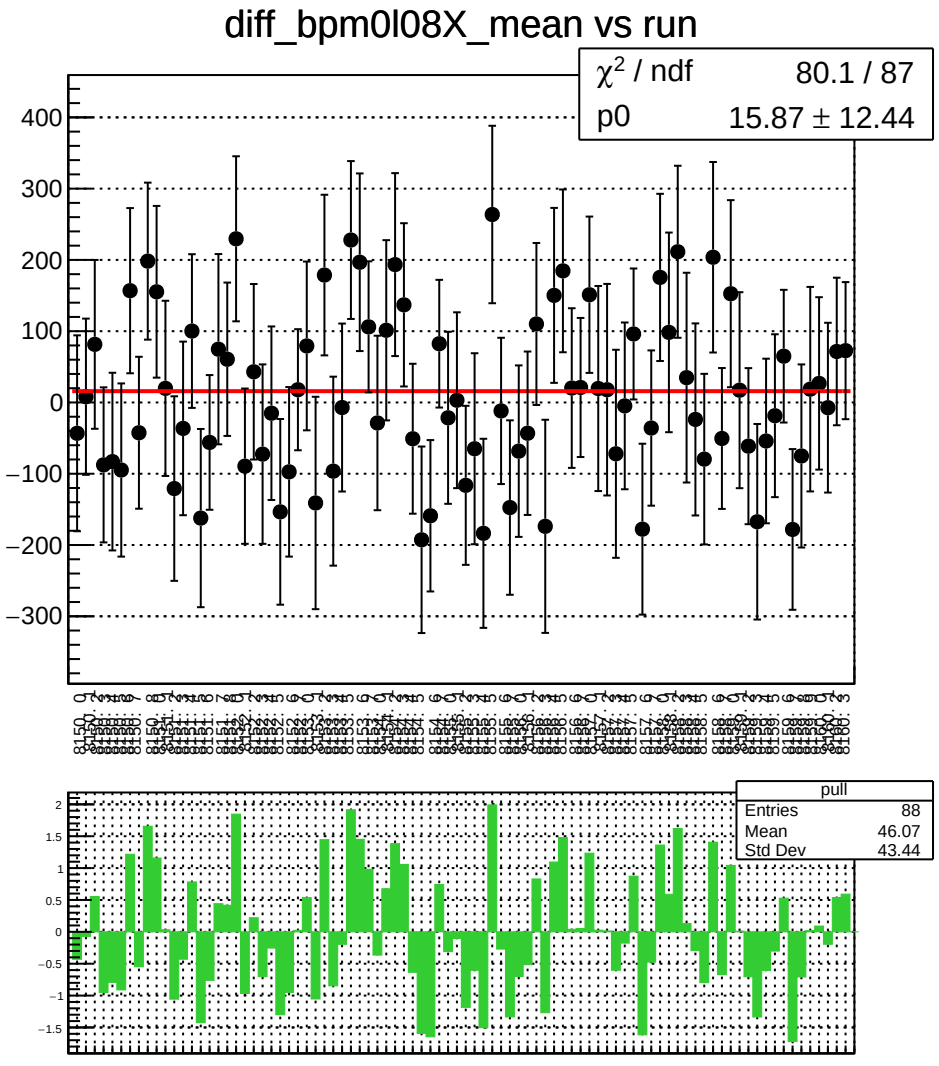

pull1D
Entries 88
Mean 0.009726
Std Dev 1.049

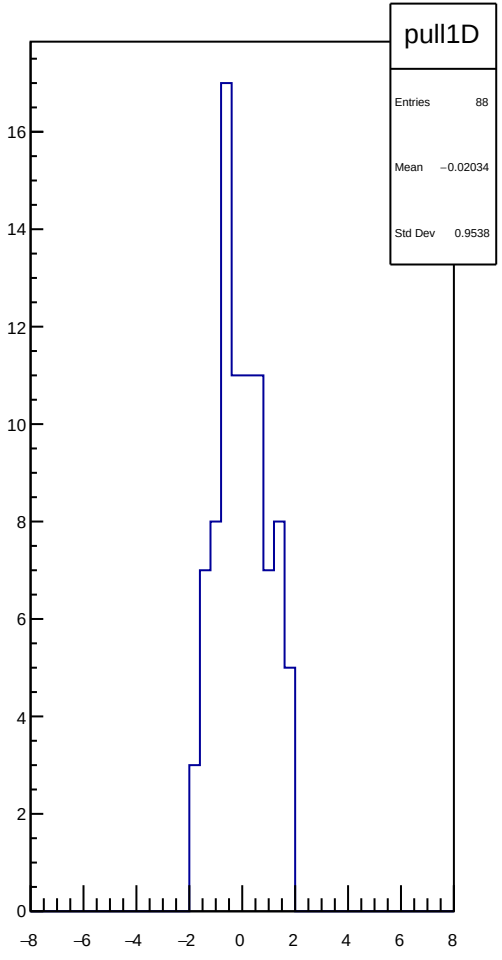

diff_bpm0l07X_rms vs run
χ² / ndf 9402 / 87
p0 9612 ± 7.444
13000
12000
11000
10000
9000
8000

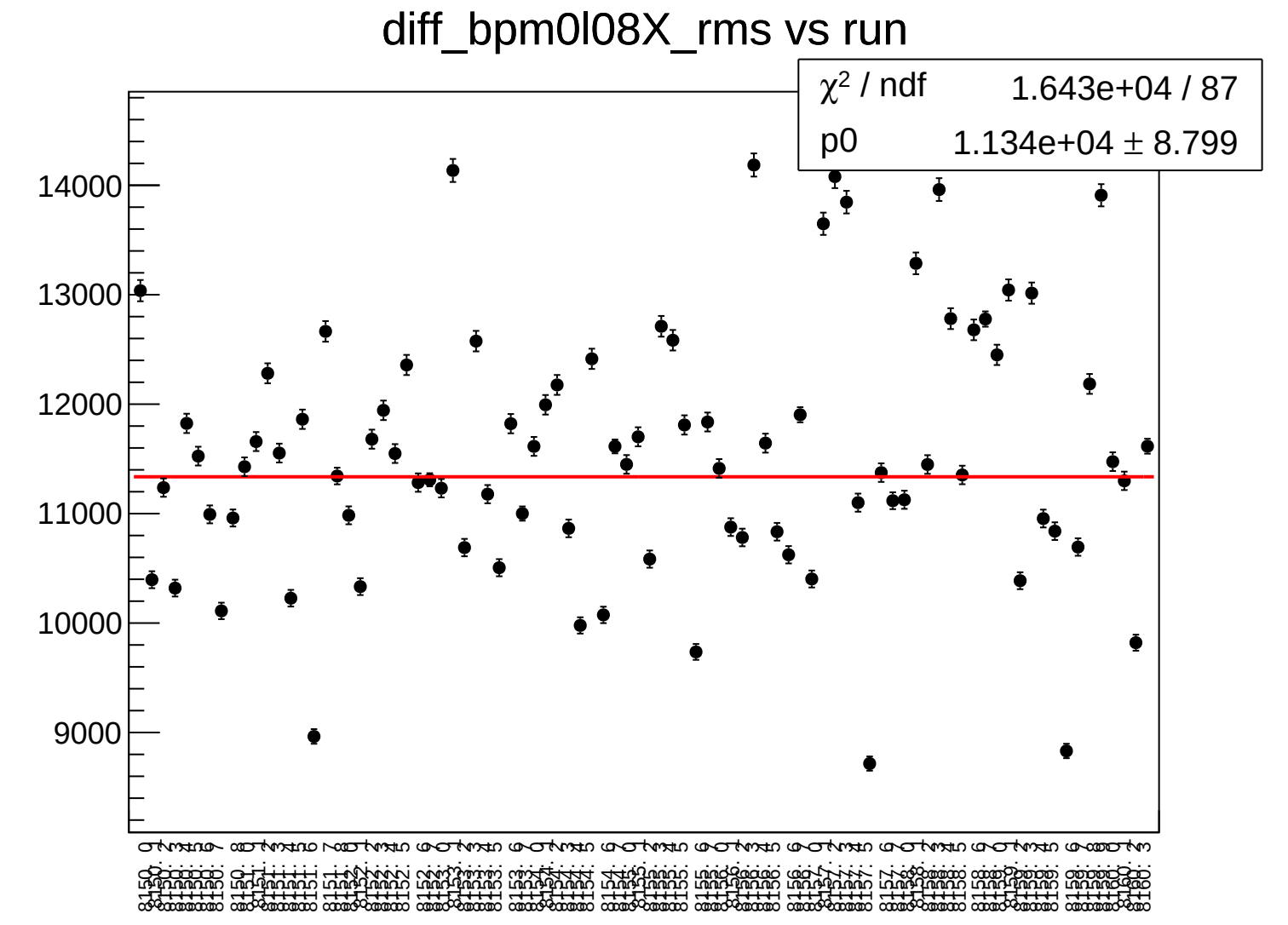

diff_bpm0l07Y_mean vs run
χ² / ndf 101.1 / 87
p0 20.15 ± 1.01
pull
Entries 88
Mean 1728
Std Dev 0

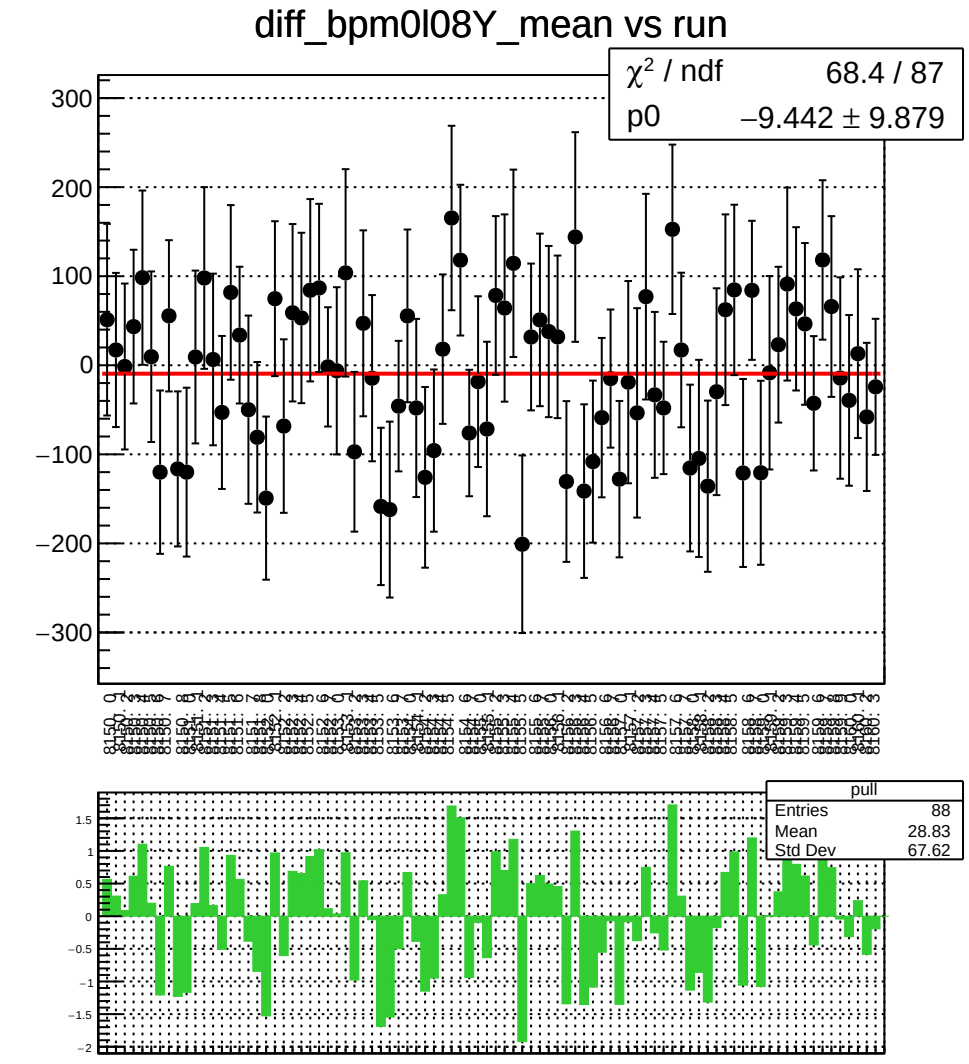

pull1D
Entries 88
Mean −0.007867
Std Dev 1.072

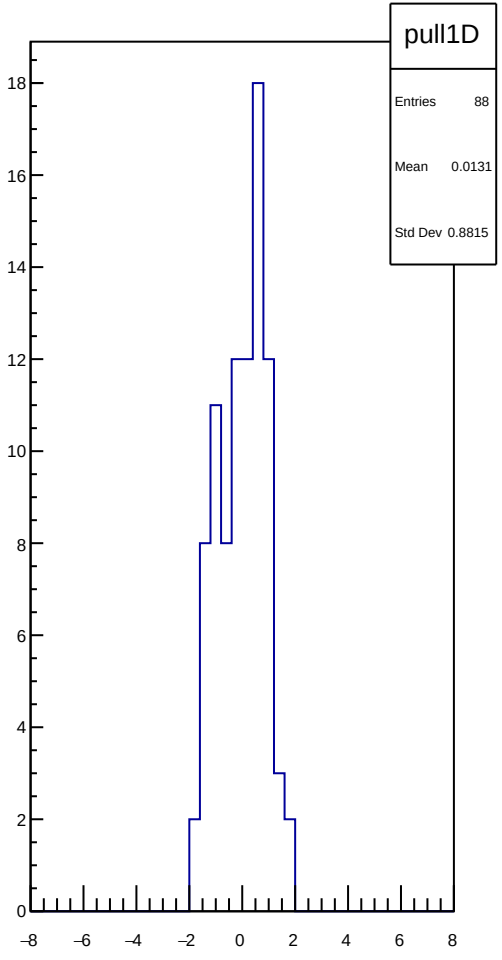

diff_bpm0l07Y_rms vs run
χ² / ndf 411.8 / 87
p0 924.6 ± 0.7142
970
960
950
940
930
920
910
900
890
880

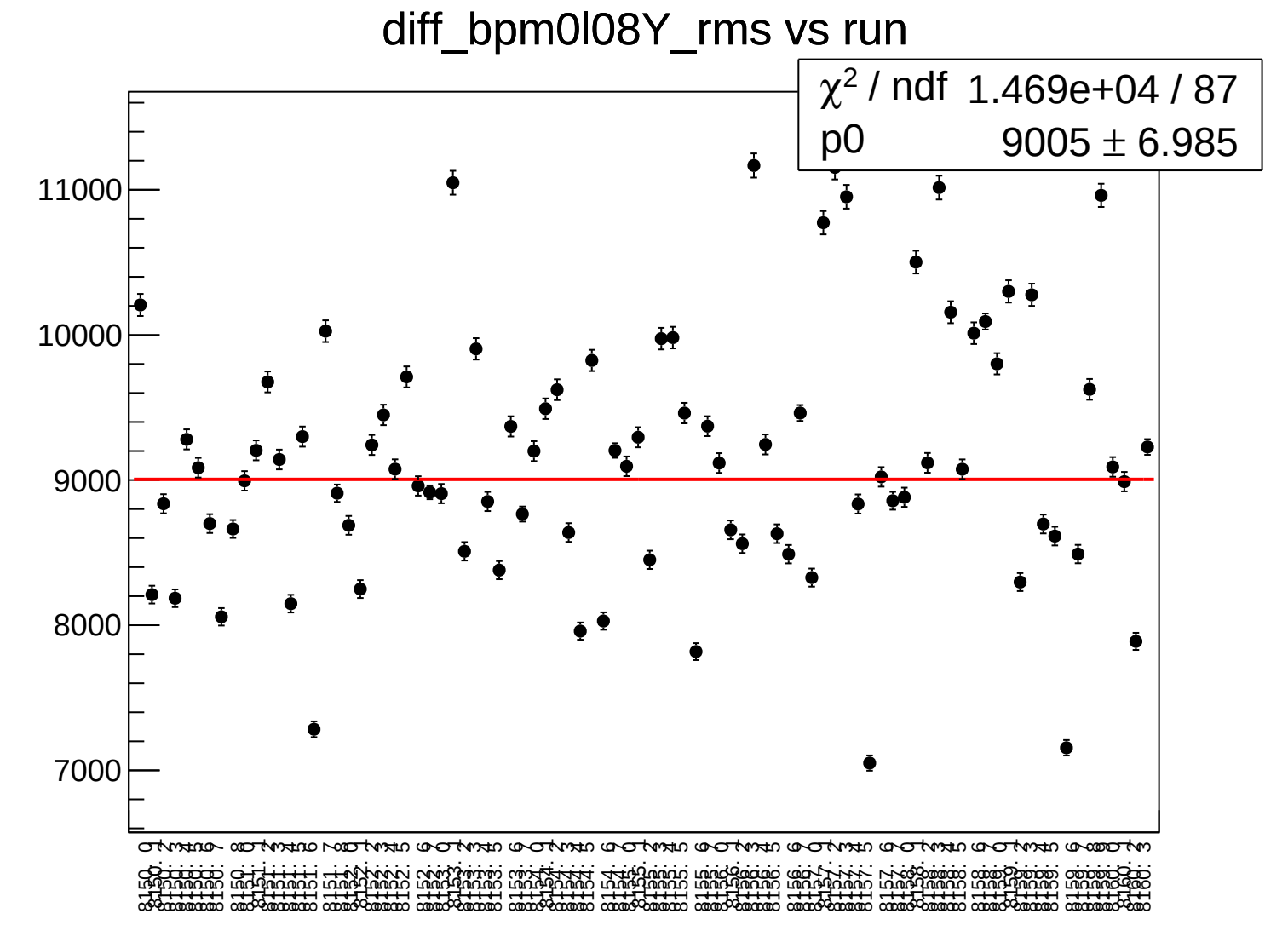

diff_bpm0l08X_mean vs run
χ^2 / ndf 80.1 / 87
p0 15.87 ± 12.44
pull
Entries 88
Mean 46.07
Std Dev 43.44

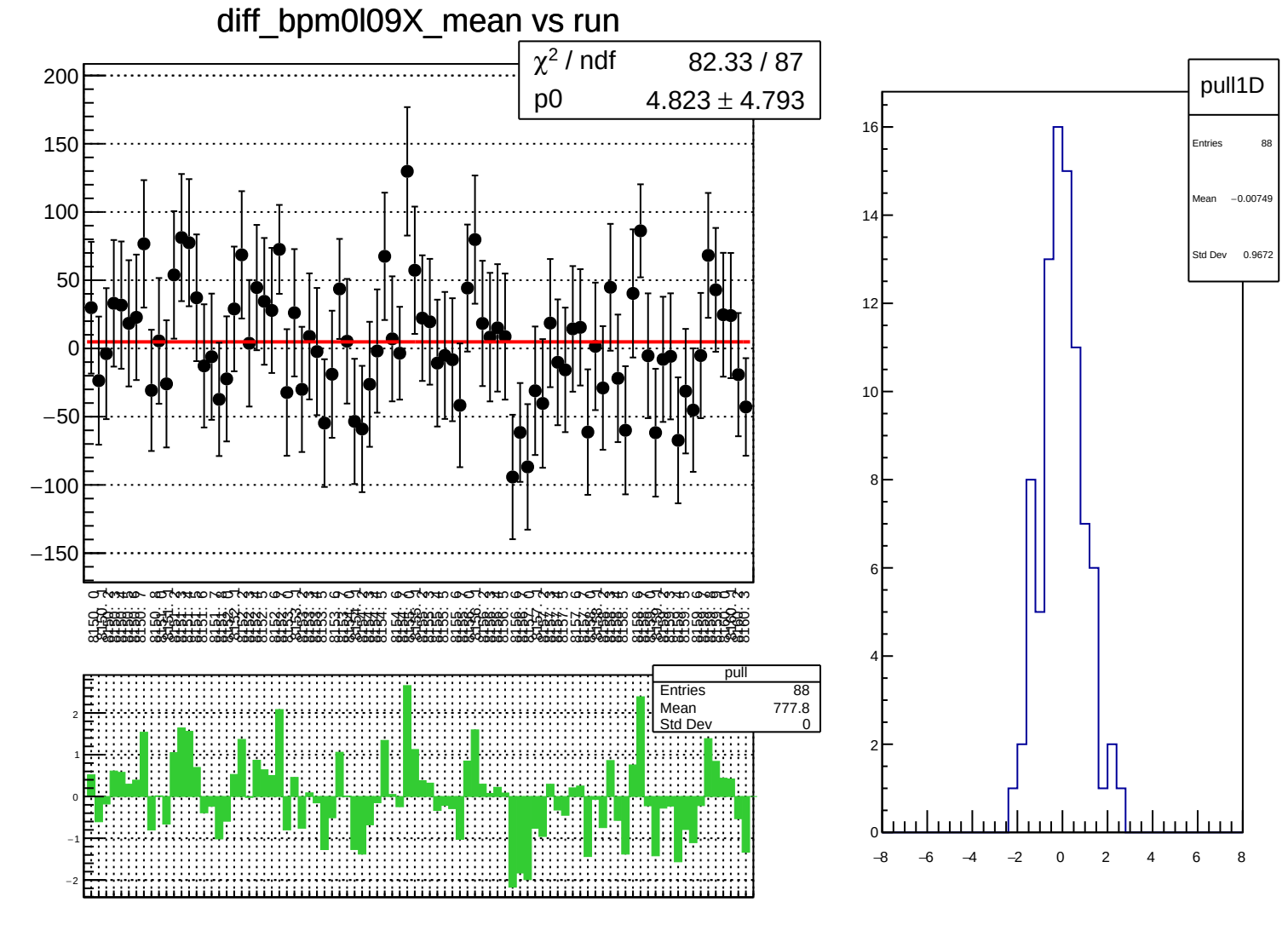

pull1D
Entries 88
Mean −0.02034
Std Dev 0.9538

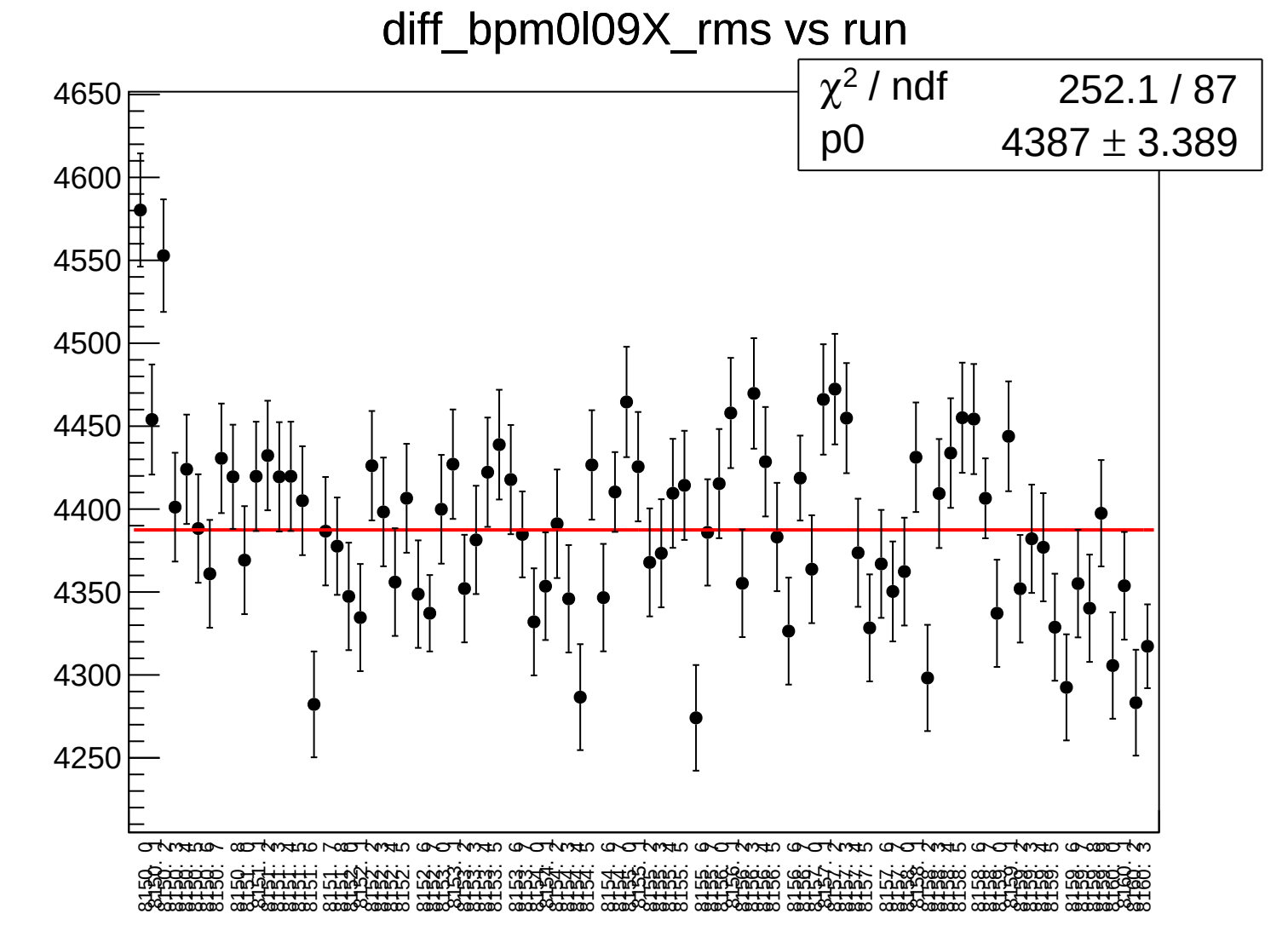

diff_bpm0l08X_rms vs run
χ^2 / ndf 1.643e+04 / 87
p0 1.134e+04 ± 8.799
14000
13000
12000
11000
10000
9000

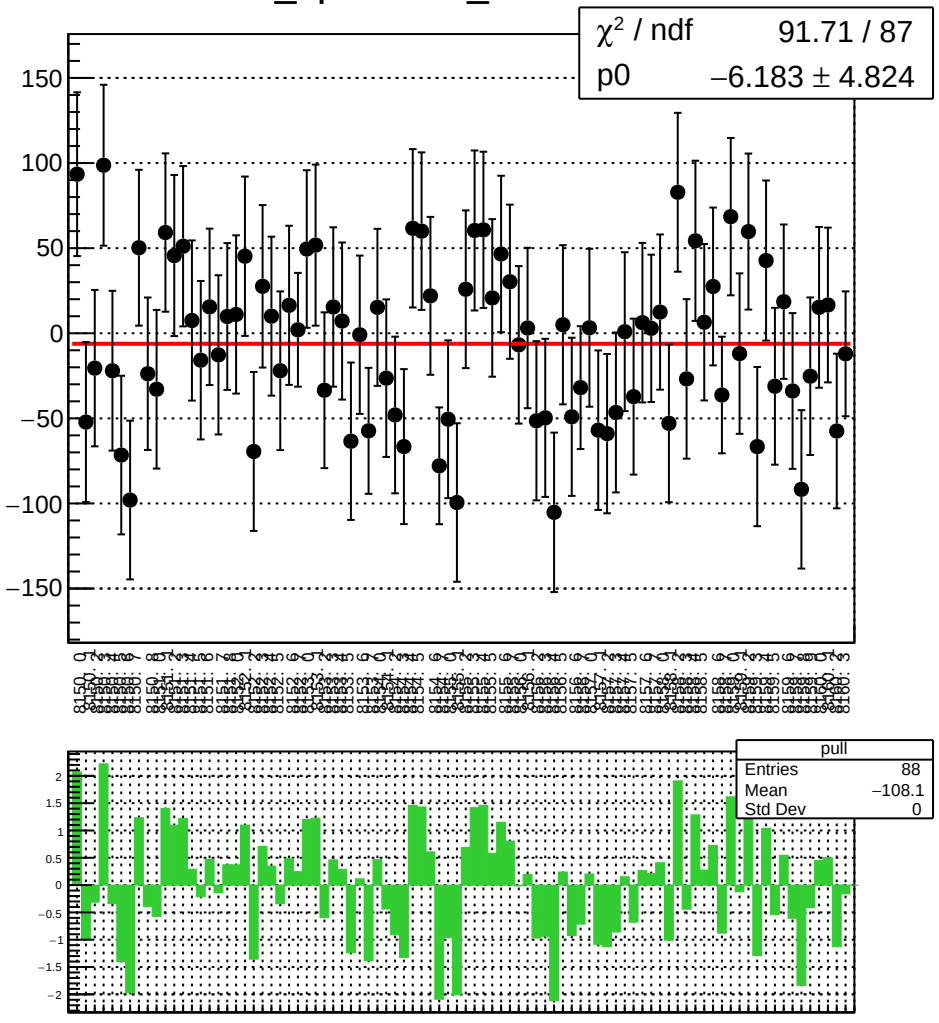

diff_bpm0l08Y_mean vs run
χ² / ndf 68.4 / 87
p0 −9.442 ± 9.879
pull
Entries 88
Mean 28.83
Std Dev 67.62

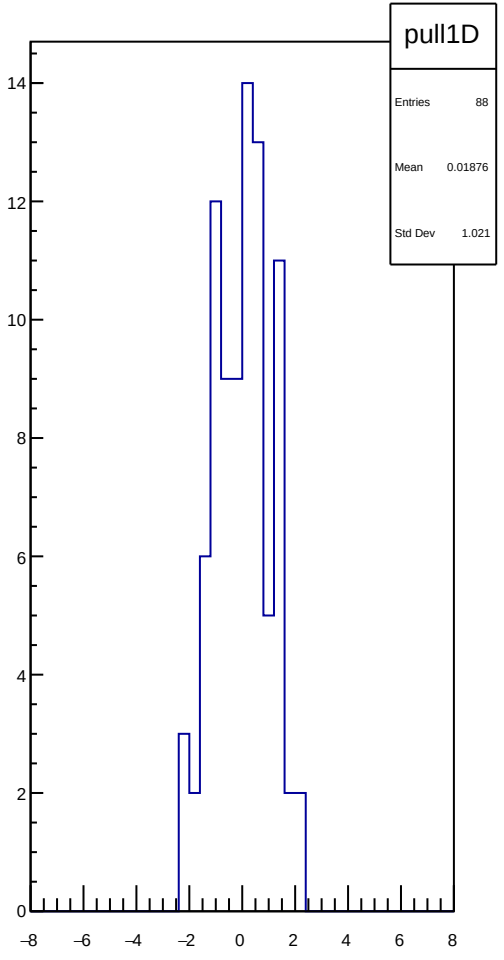

pull1D
Entries 88
Mean 0.0131
Std Dev 0.8815

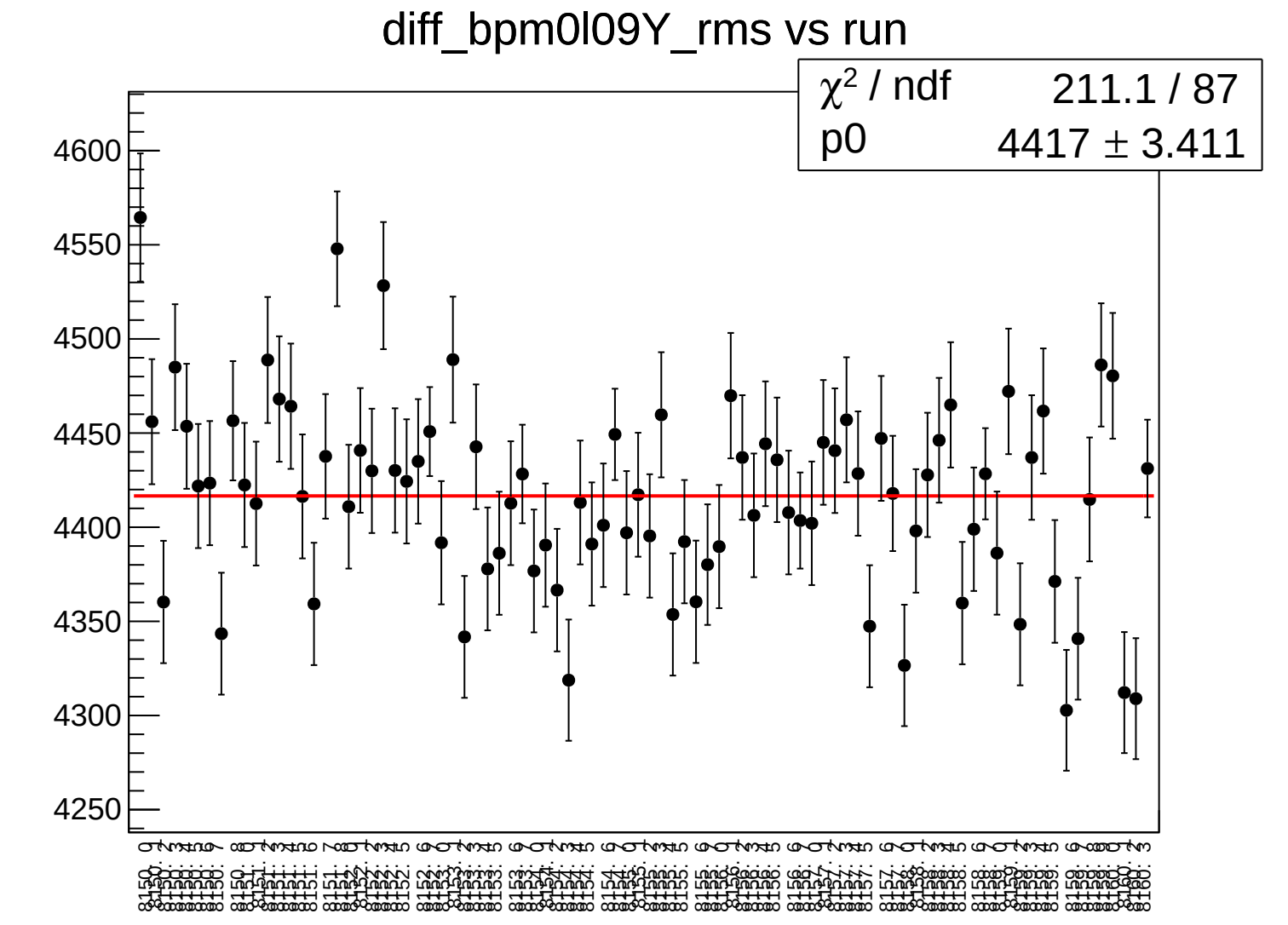

diff_bpm0l08Y_rms vs run
χ² / ndf 1.469e+04 / 87
p0 9005 ± 6.985
11000
10000
9000
8000
7000

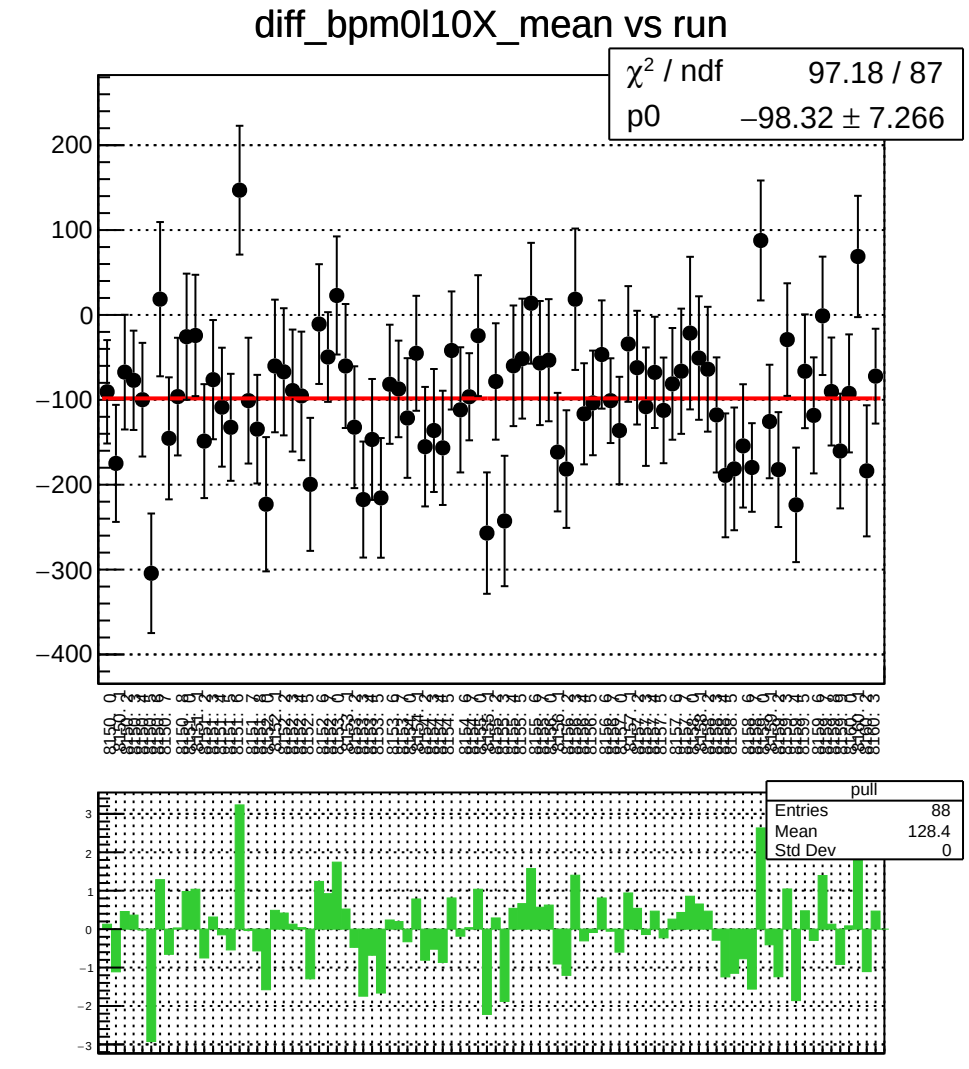

diff_bpm0l09X_mean vs run
χ^2 / ndf 82.33 / 87
p0 4.823 ± 4.793
pull
Entries 88
Mean 777.8
Std Dev 0
pull1D
Entries 88
Mean −0.00749
Std Dev 0.9672

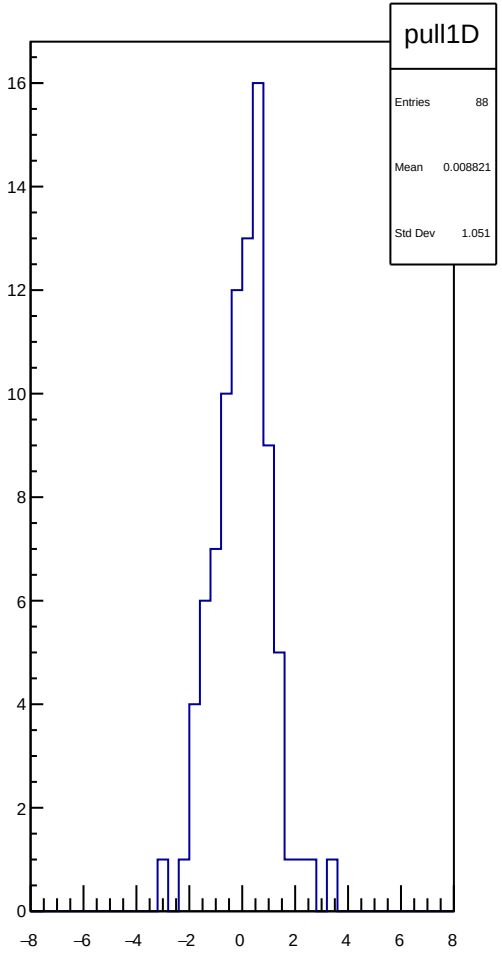

diff_bpm0l09X_rms vs run
χ² / ndf 252.1 / 87
p0 4387 ± 3.389
4650
4600
4550
4500
4450
4400
4350
4300
4250

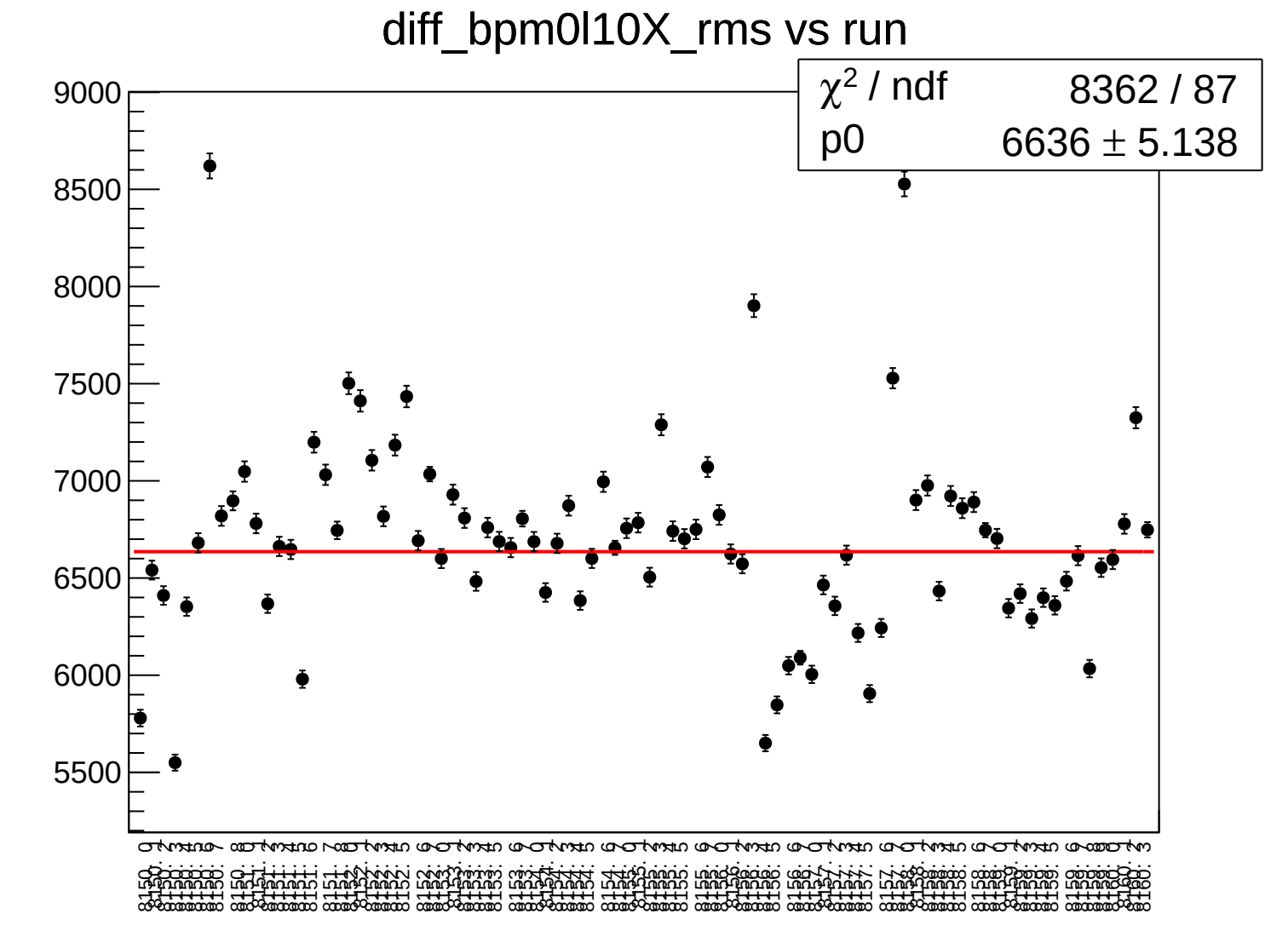

diff_bpm0l09Y_mean vs run
χ² / ndf 91.71 / 87
p0 −6.183 ± 4.824
pull
Entries 88
Mean −108.1
Std Dev 0

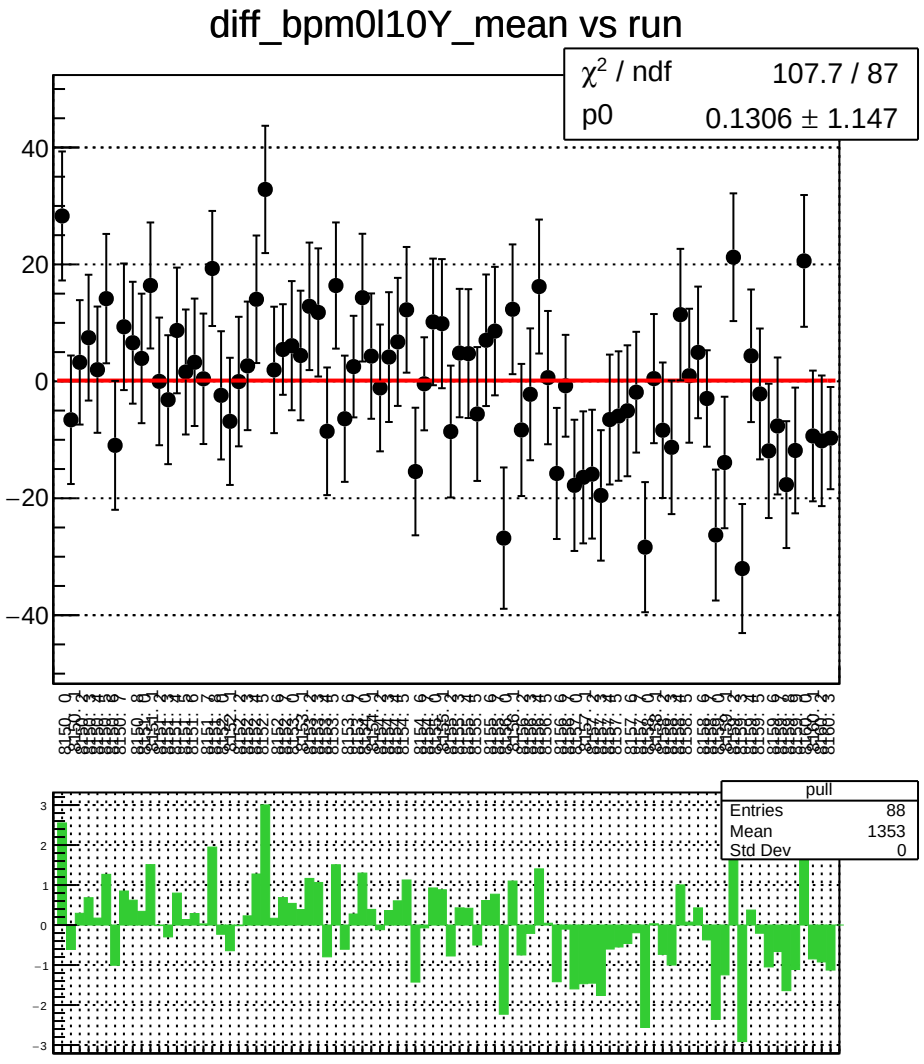

pull1D
Entries 88
Mean 0.01876
Std Dev 1.021

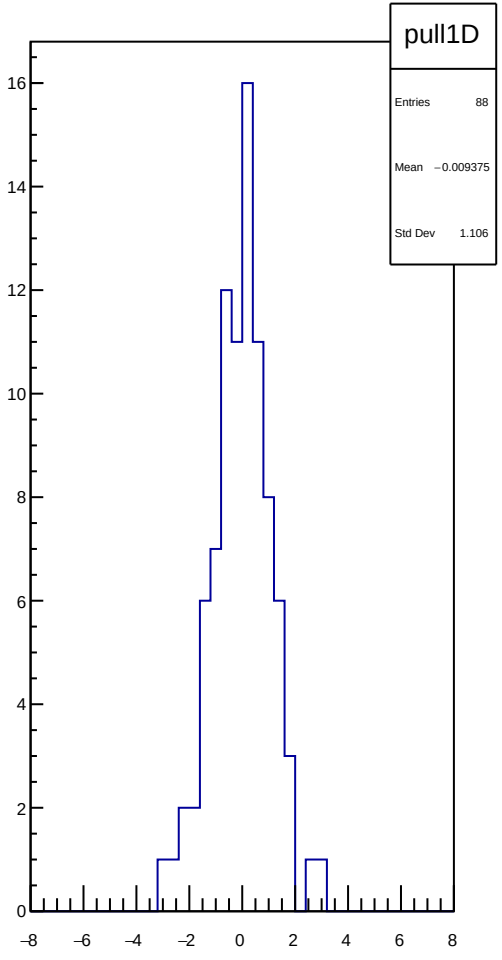

diff_bpm0l09Y_rms vs run
χ² / ndf 211.1 / 87
p0 4417 ± 3.411
4600
4550
4500
4450
4400
4350
4300
4250

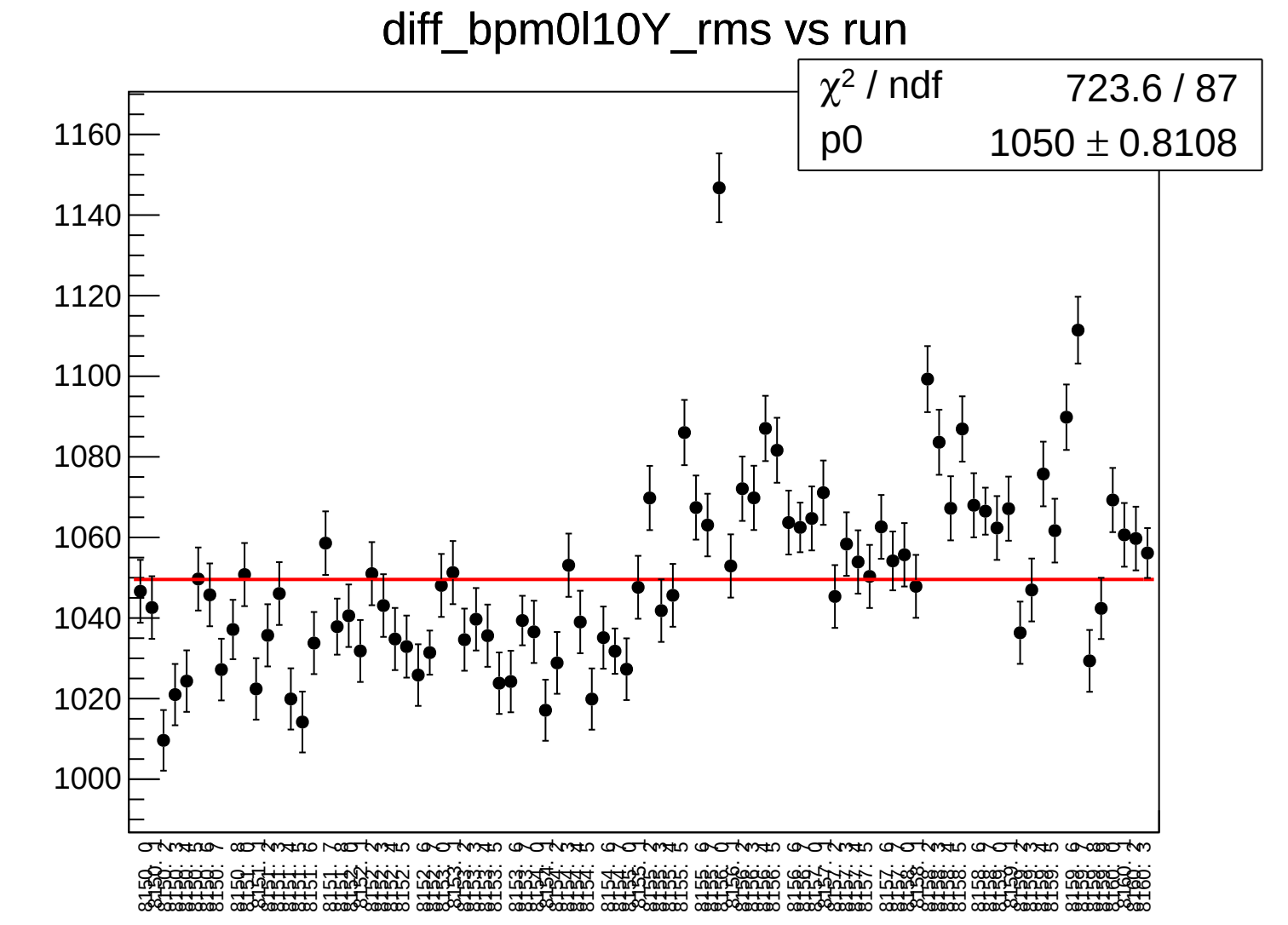

diff_bpm0l10X_mean vs run
χ² / ndf 97.18 / 87
p0 −98.32 ± 7.266
pull
Entries 88
Mean 128.4
Std Dev 0

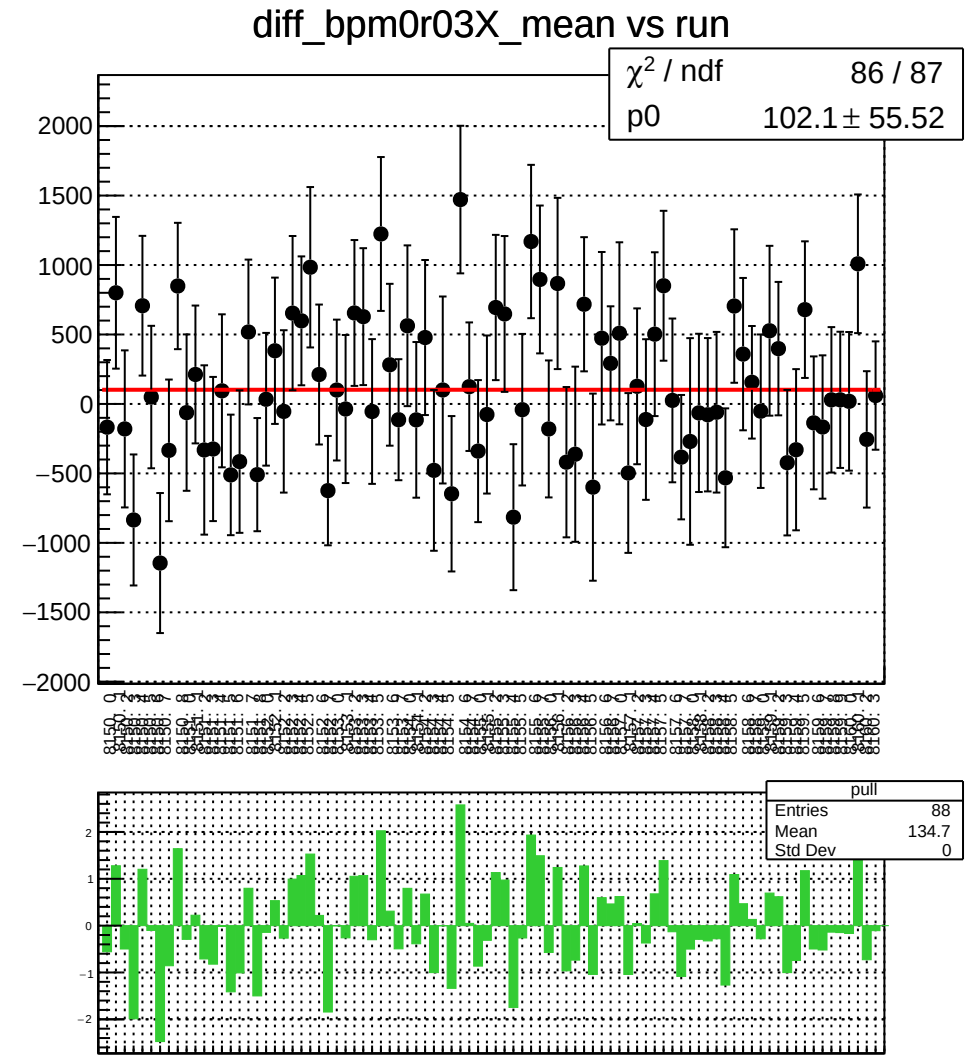

pull1D
Entries 88
Mean 0.008821
Std Dev 1.051

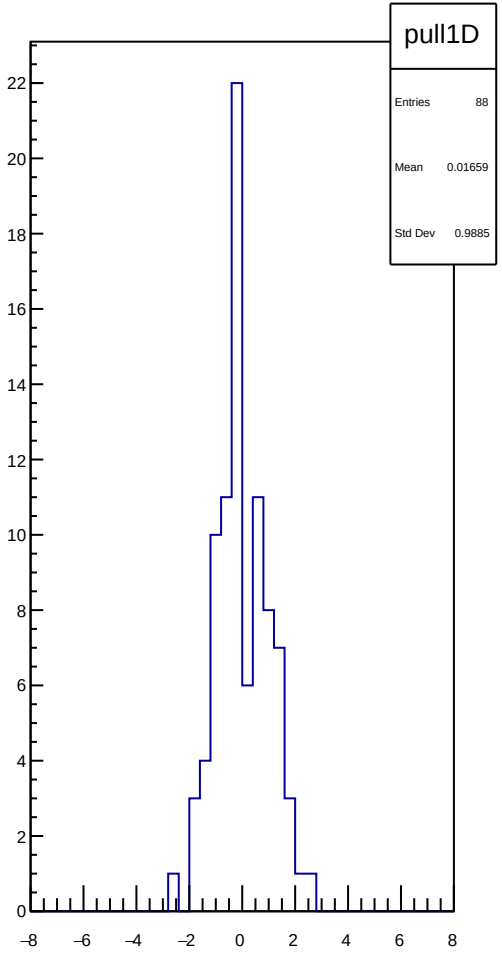

diff_bpm0l10X_rms vs run
χ^2 / ndf 8362 / 87
p0 6636 ± 5.138
9000
8500
8000
7500
7000
6500
6000
5500

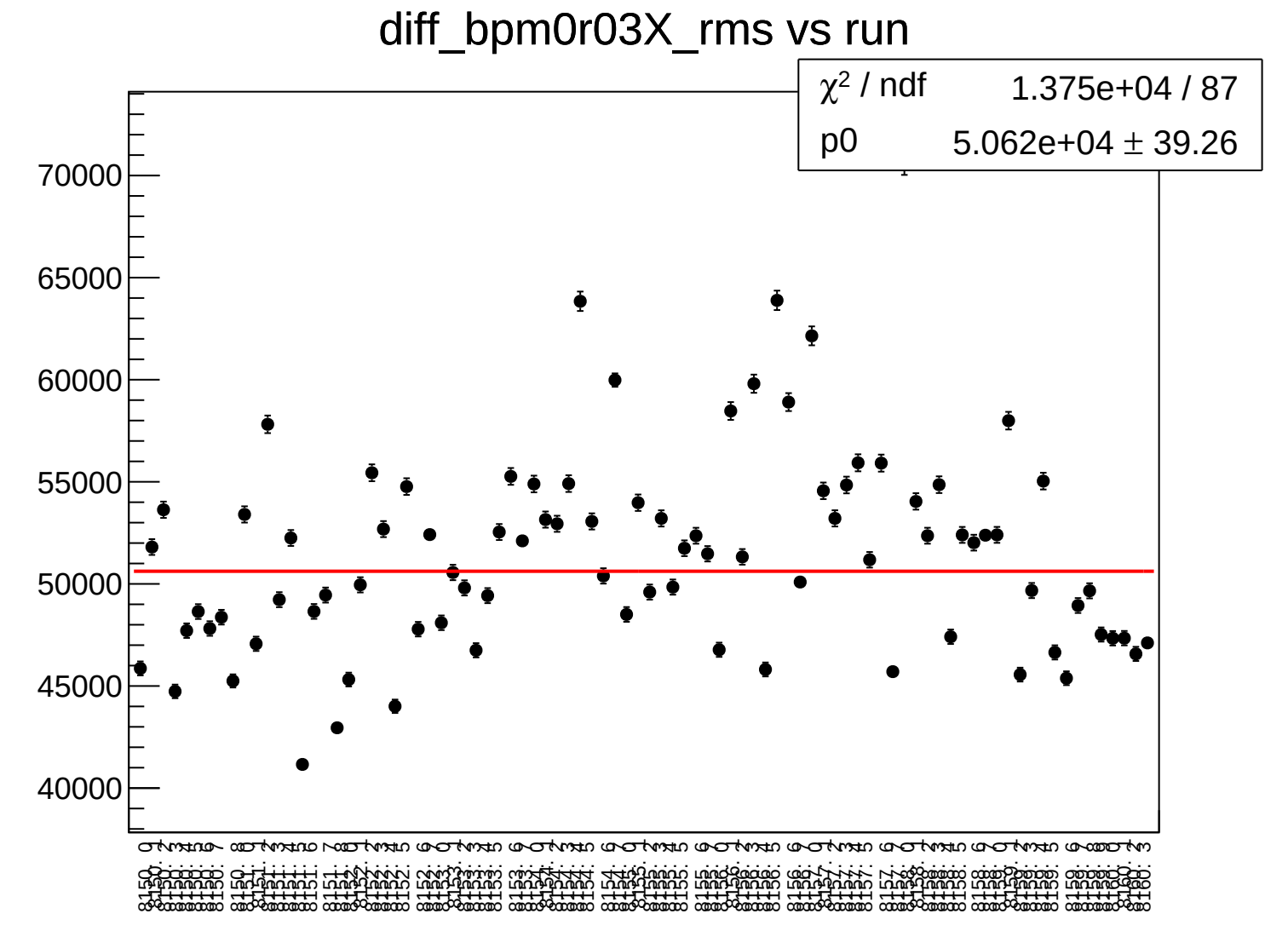

diff_bpm0l10Y_mean vs run
χ² / ndf 107.7 / 87
p0 0.1306 ± 1.147
pull
Entries 88
Mean 1353
Std Dev 0

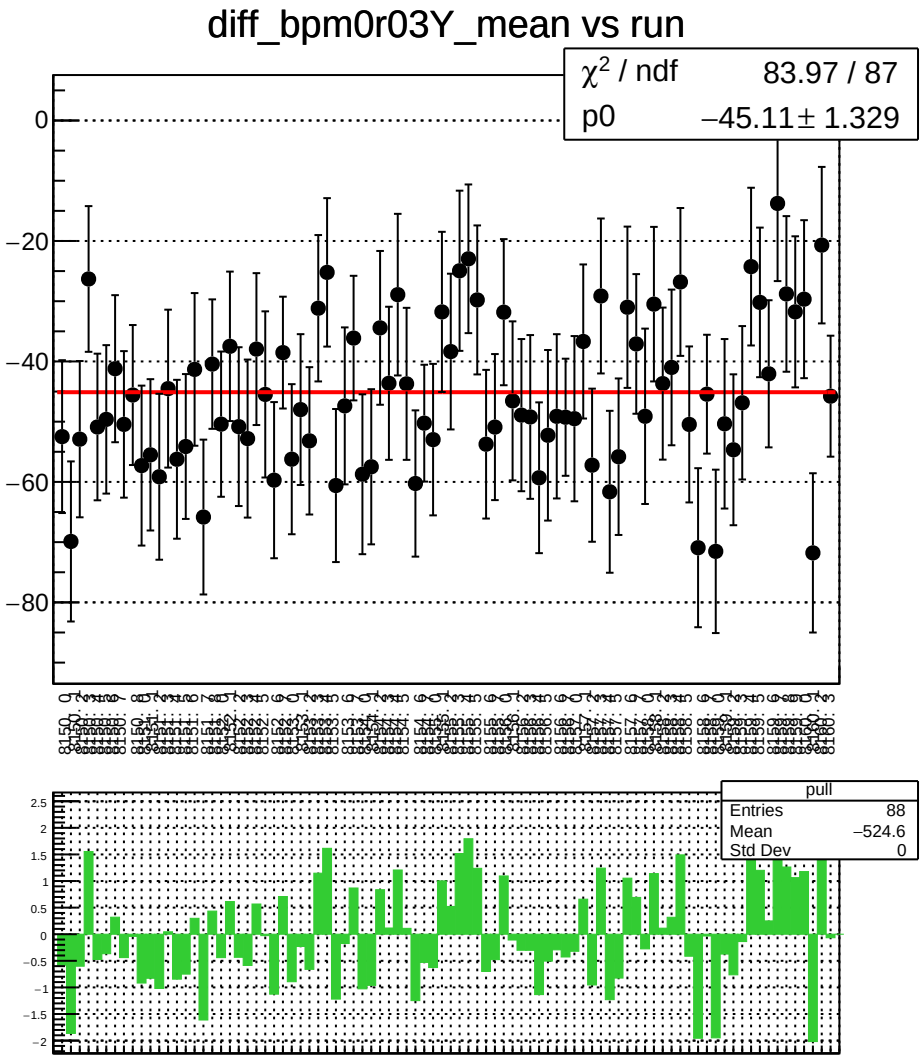

pull1D
Entries 88
Mean −0.009375
Std Dev 1.106

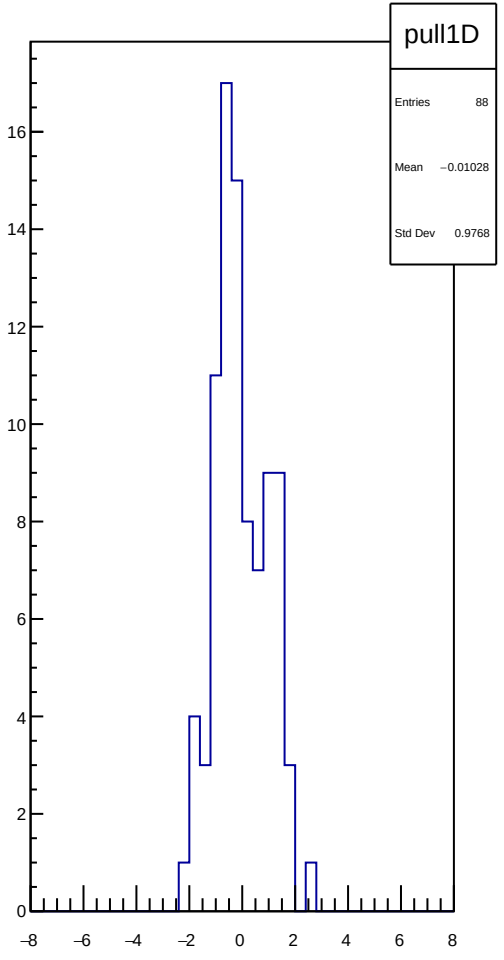

diff_bpm0l10Y_rms vs run
χ² / ndf 723.6 / 87
p0 1050 ± 0.8108
1160
1140
1120
1100
1080
1060
1040
1020
1000

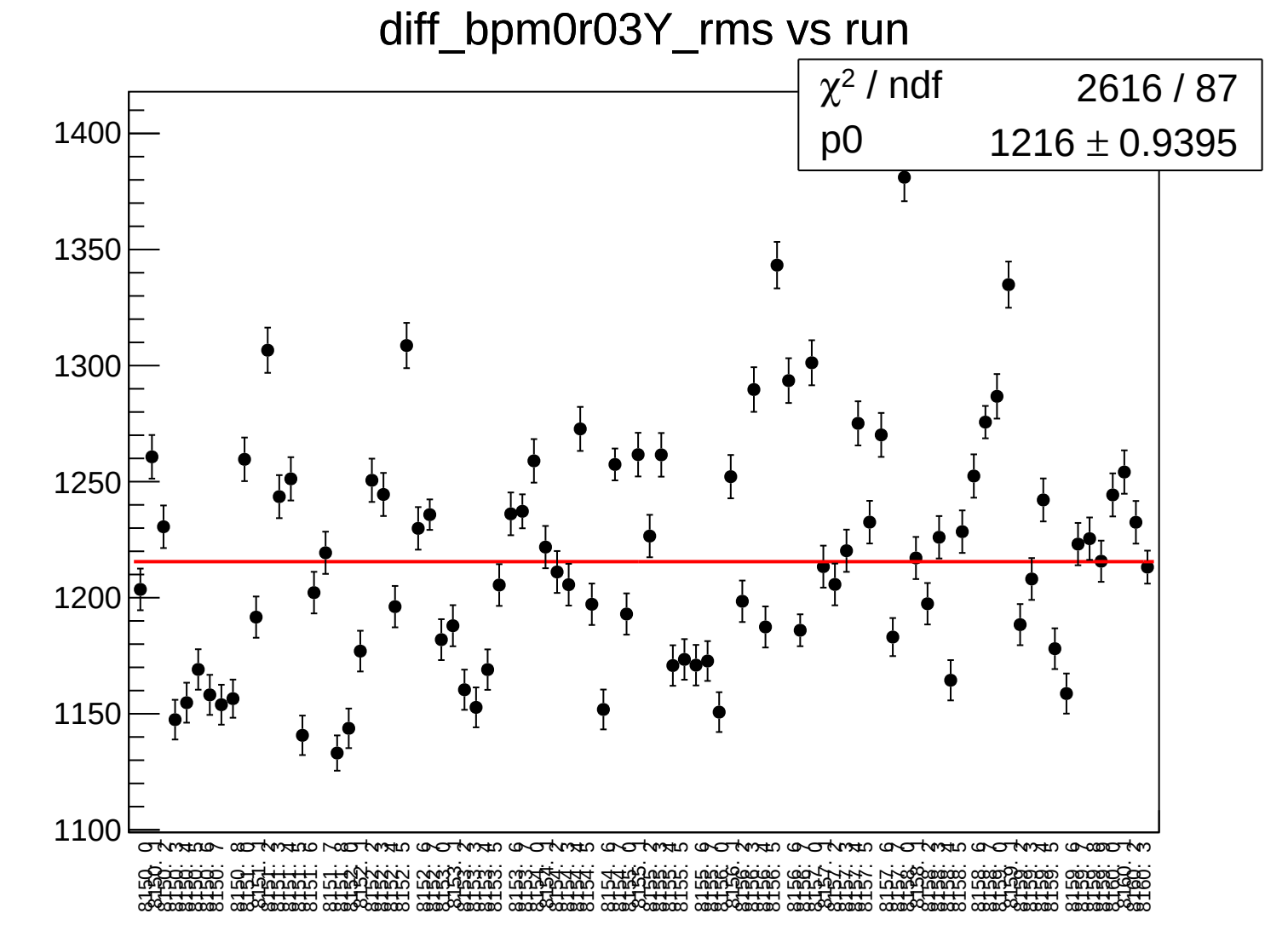

diff_bpm0r03X_mean vs run
χ² / ndf 86 / 87
p0 102.1 ± 55.52
pull
Entries 88
Mean 134.7
Std Dev 0

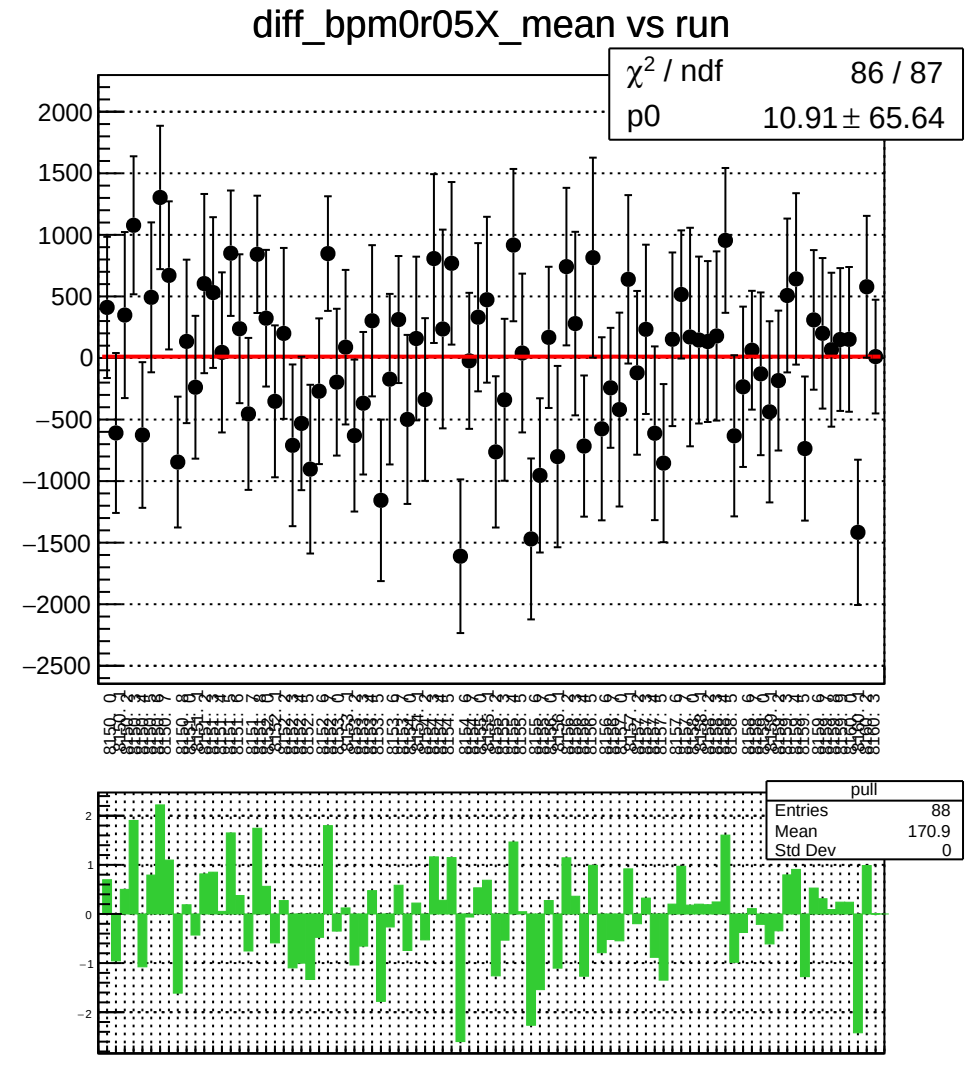

pull1D
Entries 88
Mean 0.01659
Std Dev 0.9885

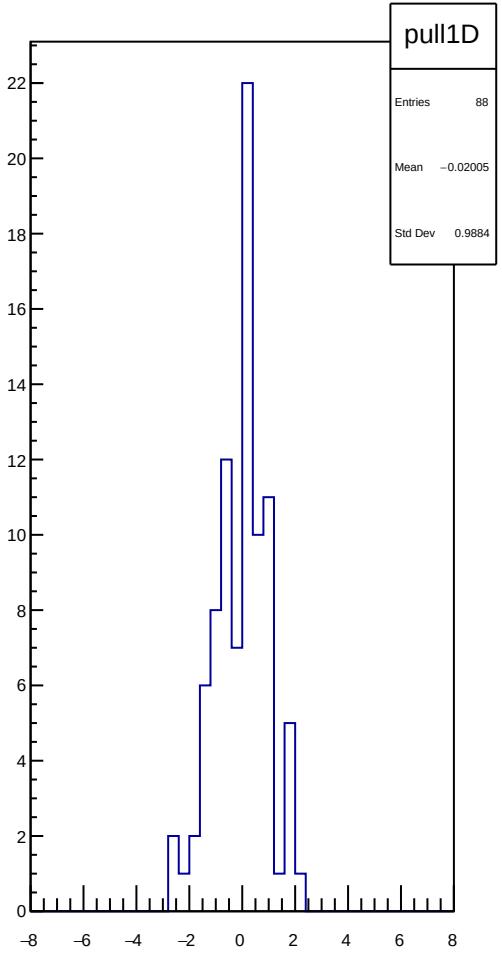

diff_bpm0r03X_rms vs run
χ² / ndf 1.375e+04 / 87
p0 5.062e+04 ± 39.26
70000
65000
60000
55000
50000
45000
40000

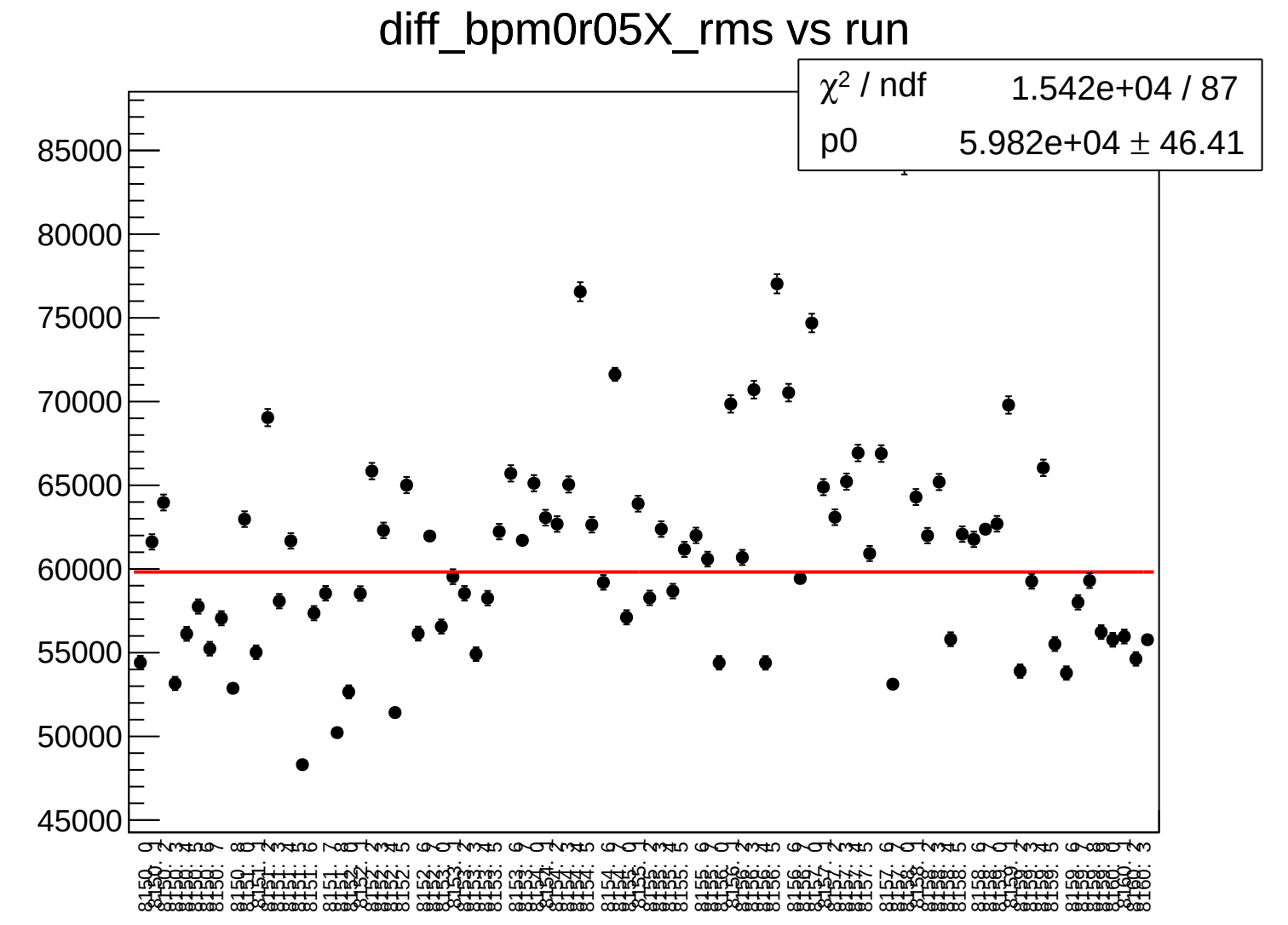

diff_bpm0r03Y_mean vs run
χ² / ndf 83.97 / 87
p0 −45.11± 1.329
pull
Entries 88
Mean −524.6
Std Dev 0

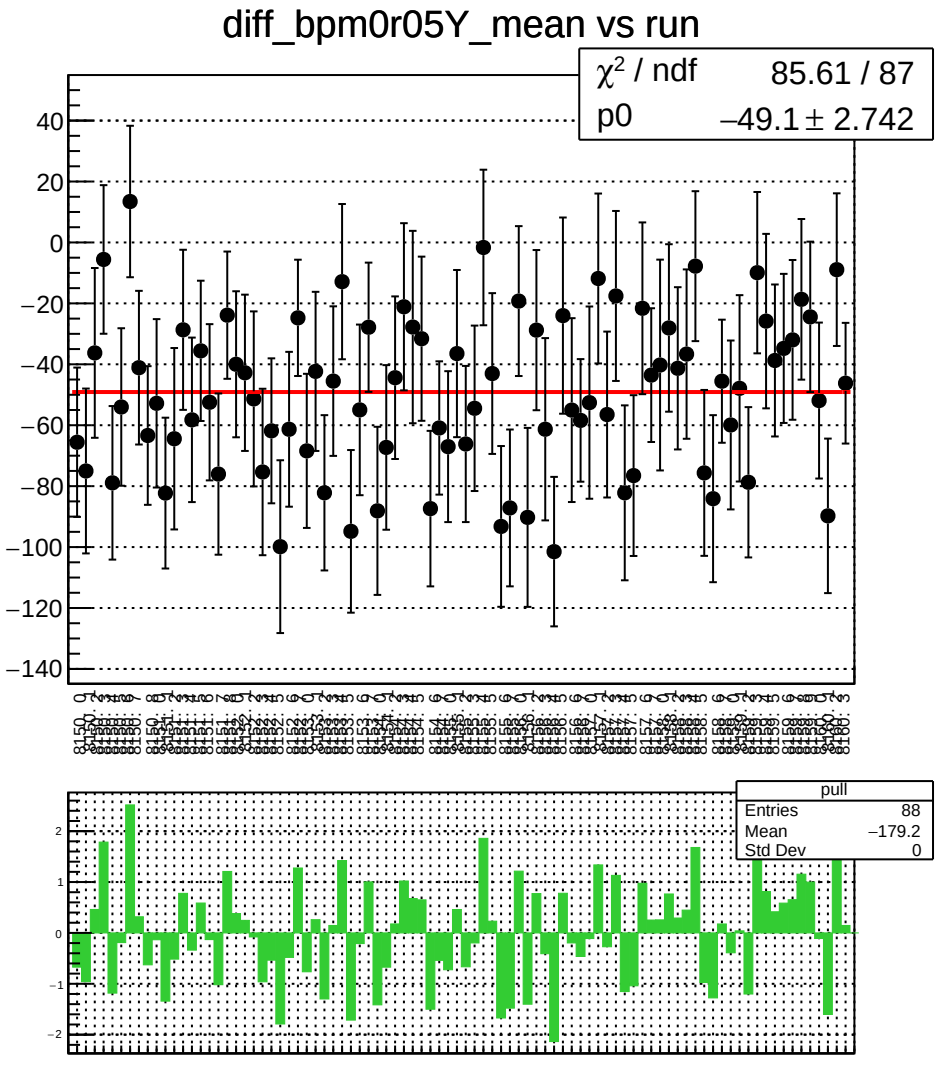

pull1D
Entries 88
Mean −0.01028
Std Dev 0.9768

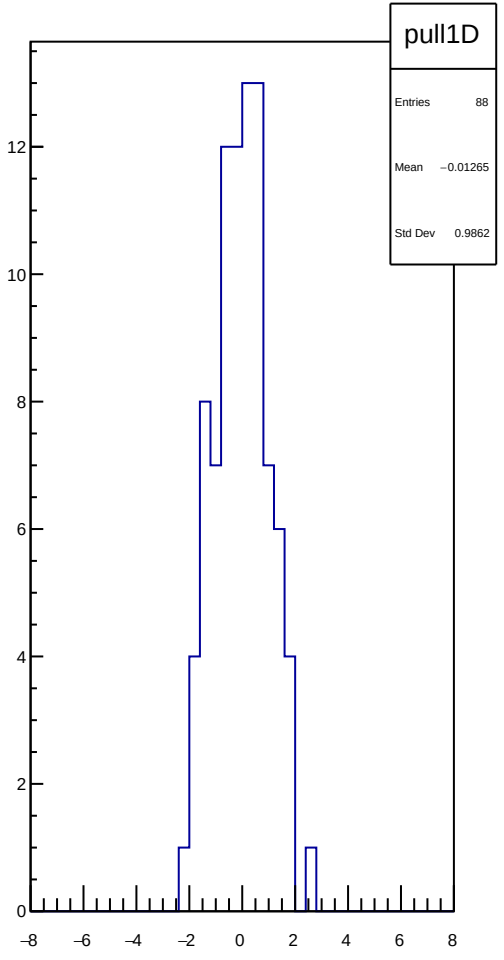

diff_bpm0r03Y_rms vs run
χ² / ndf 2616 / 87
p0 1216 ± 0.9395
1400
1350
1300
1250
1200
1150
1100

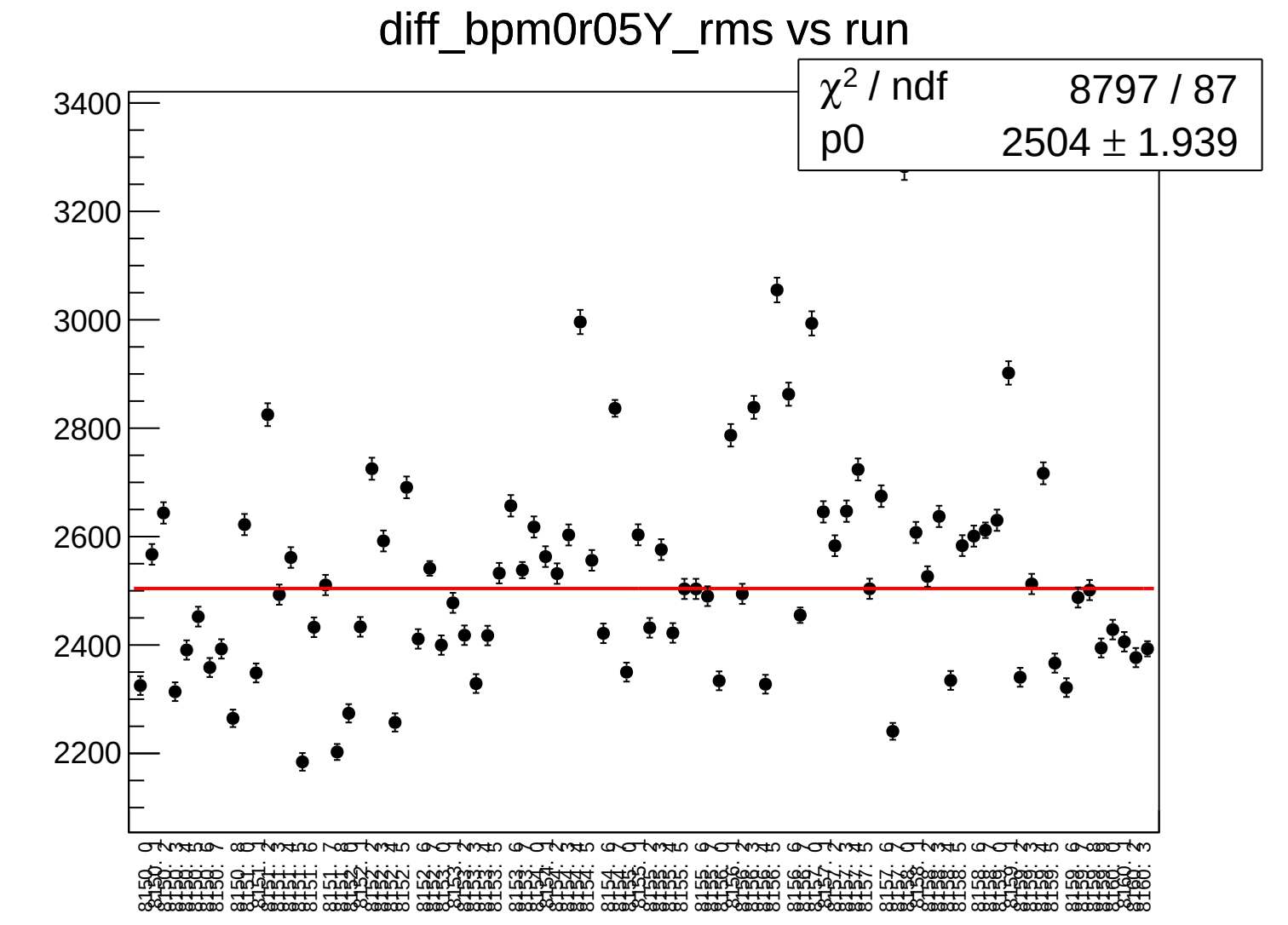

diff_bpm0r05X_mean vs run
χ² / ndf 86 / 87
p0 10.91 ± 65.64
pull
Entries 88
Mean 170.9
Std Dev 0

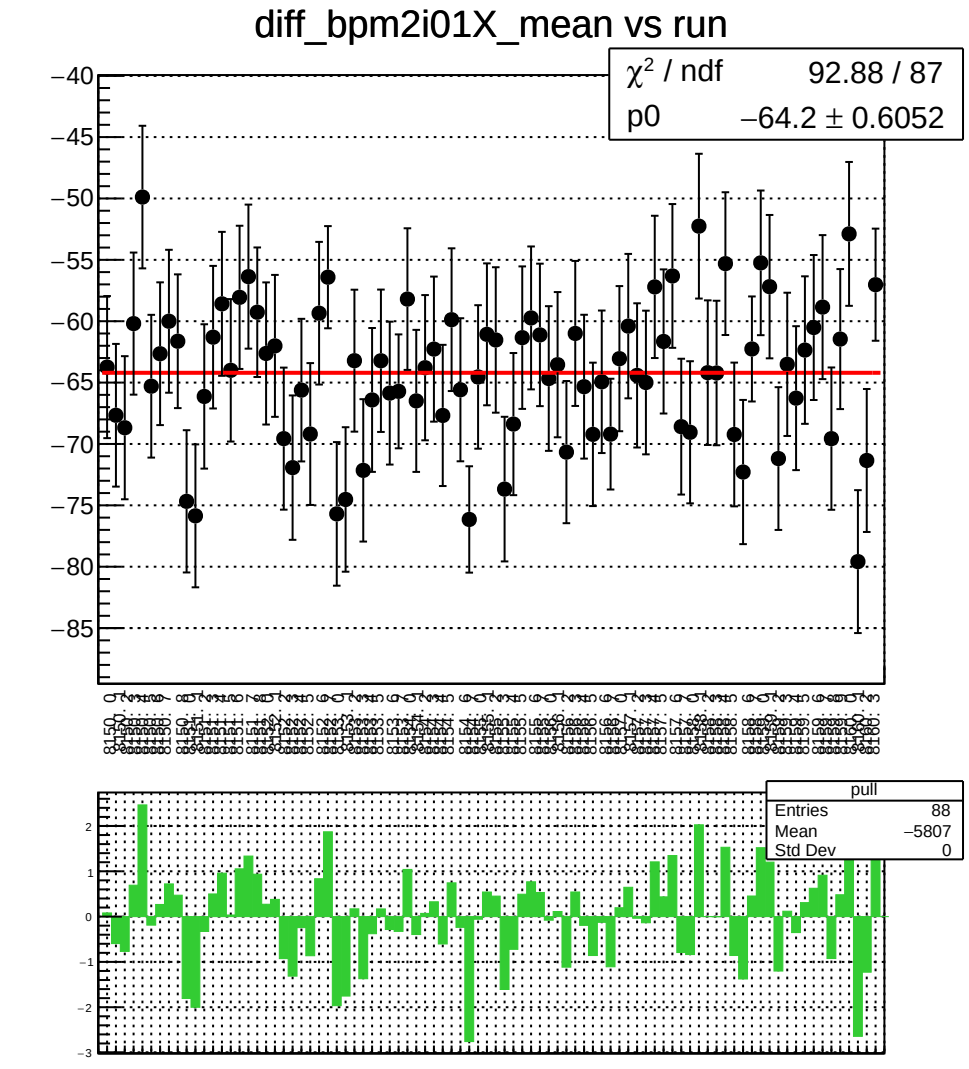

pull1D
Entries 88
Mean −0.02005
Std Dev 0.9884

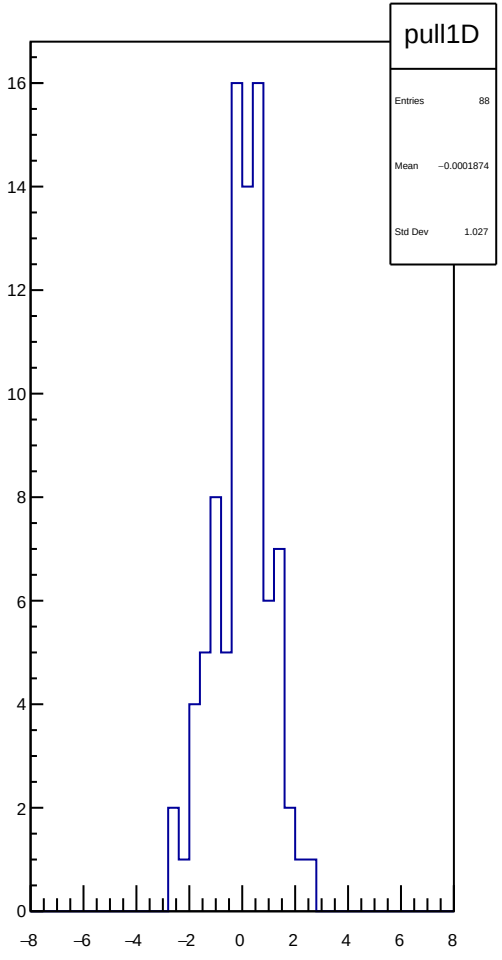

diff_bpm0r05X_rms vs run
χ² / ndf 1.542e+04 / 87
p0 5.982e+04 ± 46.41
85000
80000
75000
70000
65000
60000
55000
50000
45000

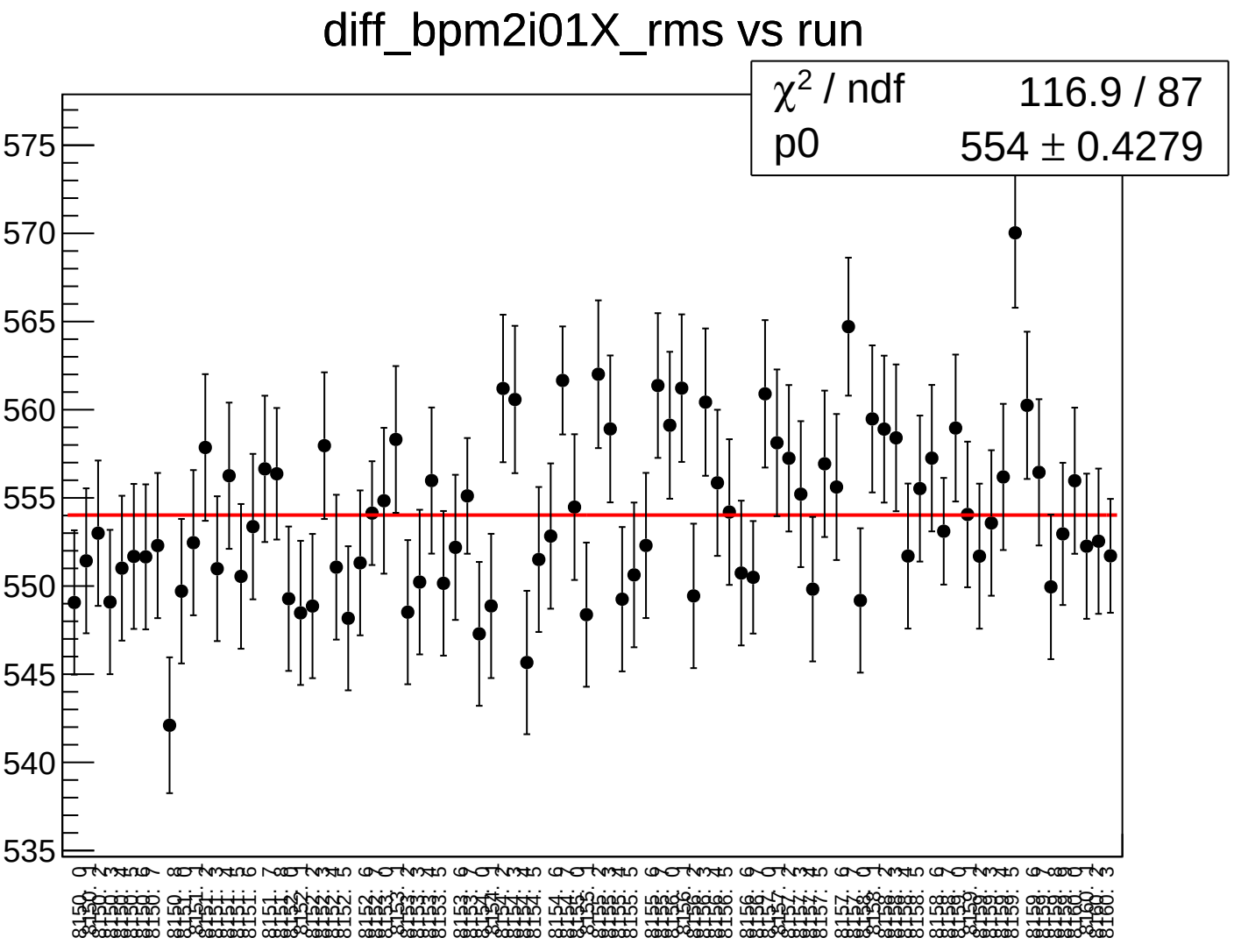

diff_bpm0r05Y_mean vs run
χ² / ndf 85.61 / 87
p0 −49.1 ± 2.742
pull
Entries 88
Mean −179.2
Std Dev 0

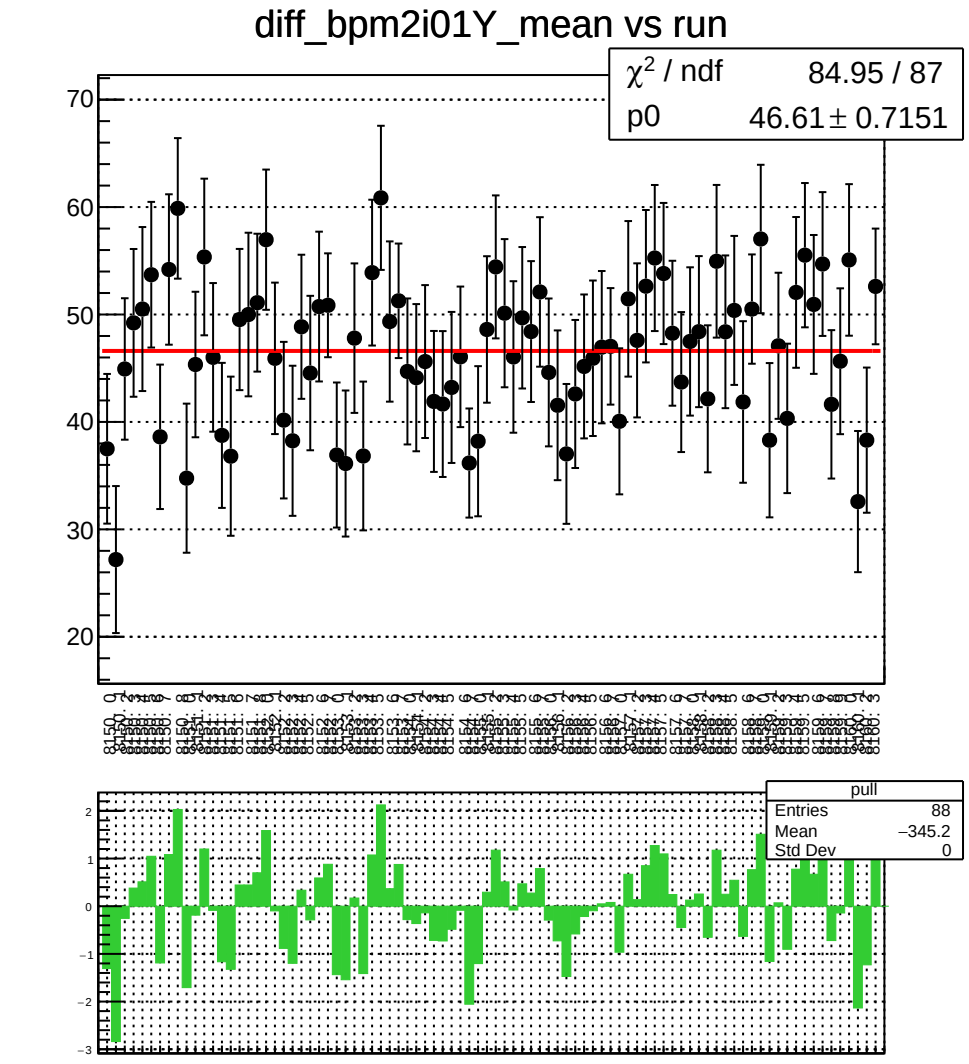

pull1D
Entries 88
Mean −0.01265
Std Dev 0.9862

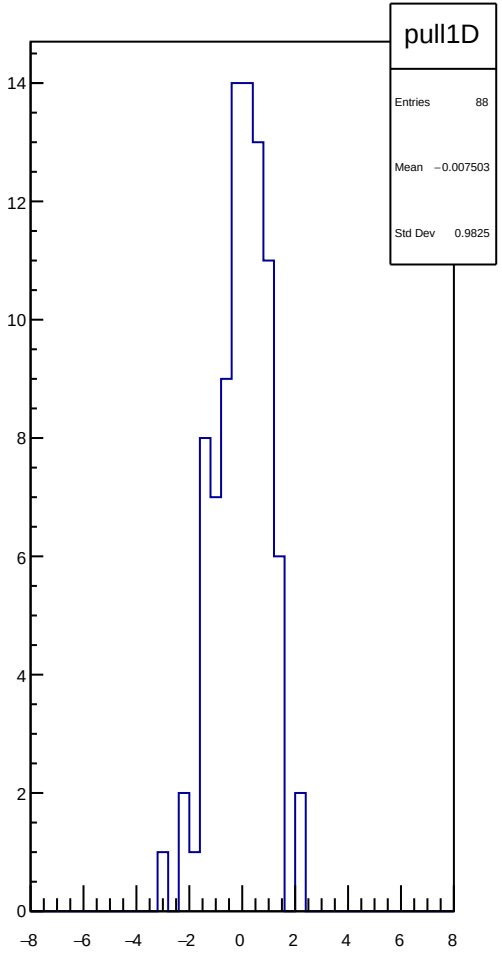

diff_bpm0r05Y_rms vs run
χ² / ndf 8797 / 87
p0 2504 ± 1.939
3400
3200
3000
2800
2600
2400
2200

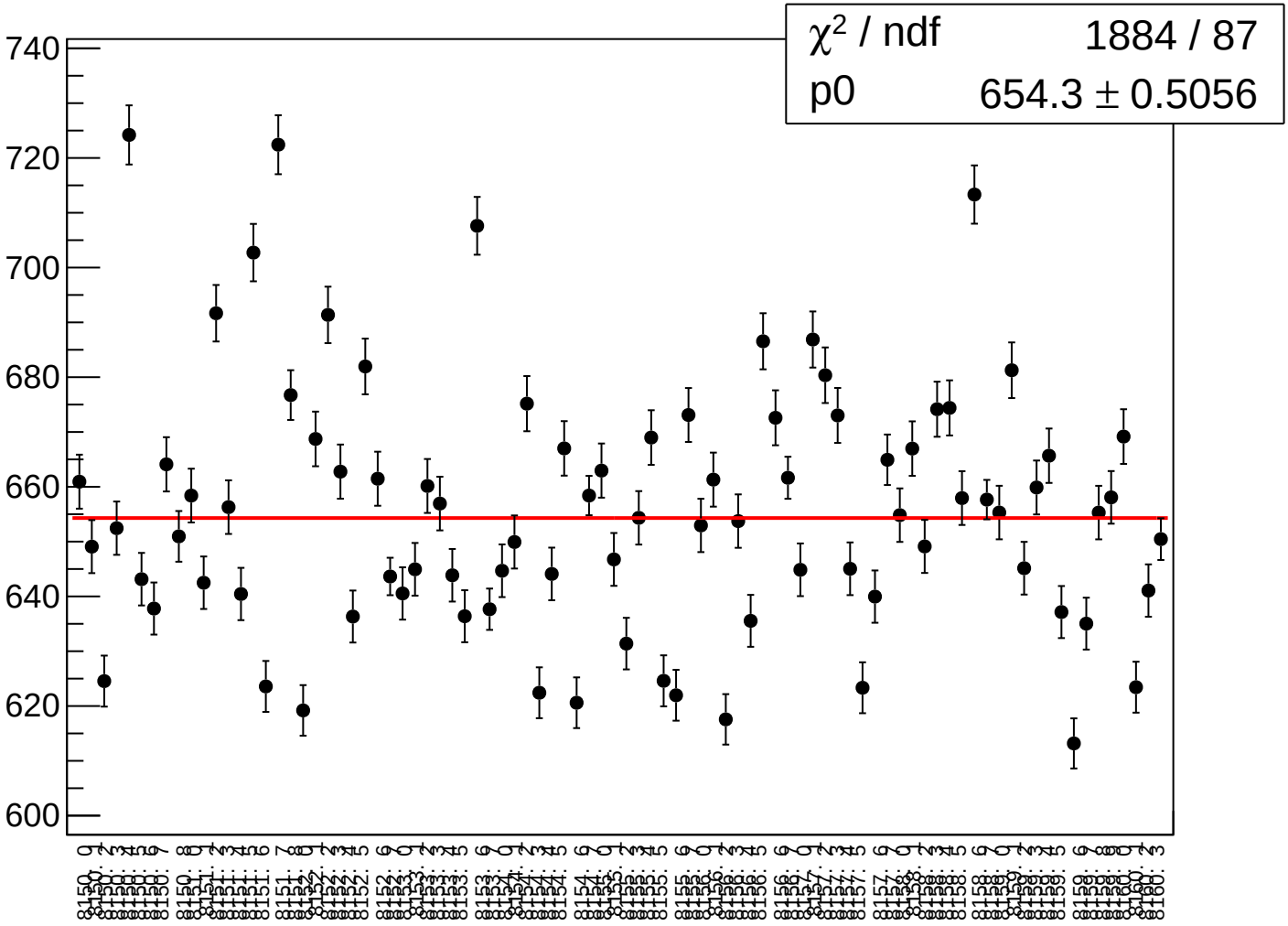

diff_bpm2i01X_mean vs run
χ² / ndf 92.88 / 87
p0 −64.2 ± 0.6052
pull
Entries 88
Mean −5807
Std Dev 0

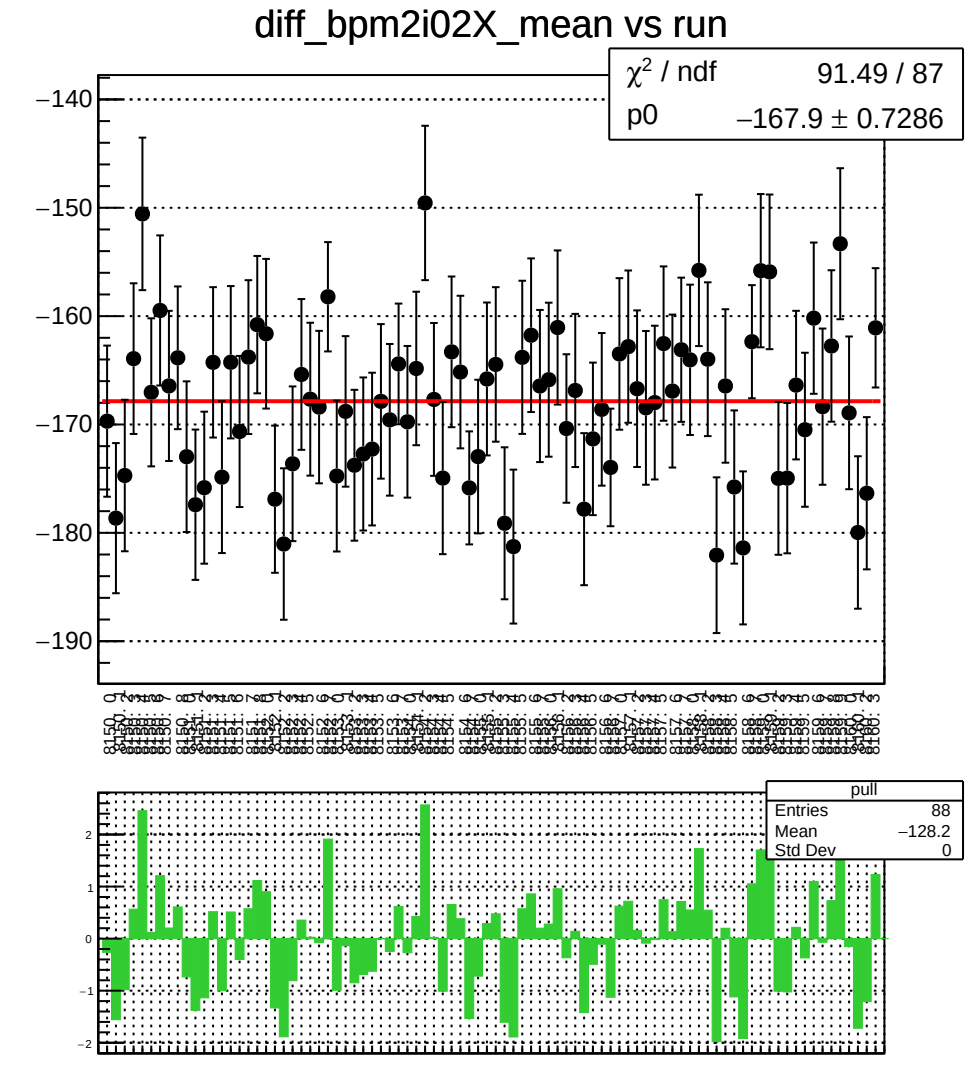

pull1D
Entries 88
Mean −0.0001874
Std Dev 1.027

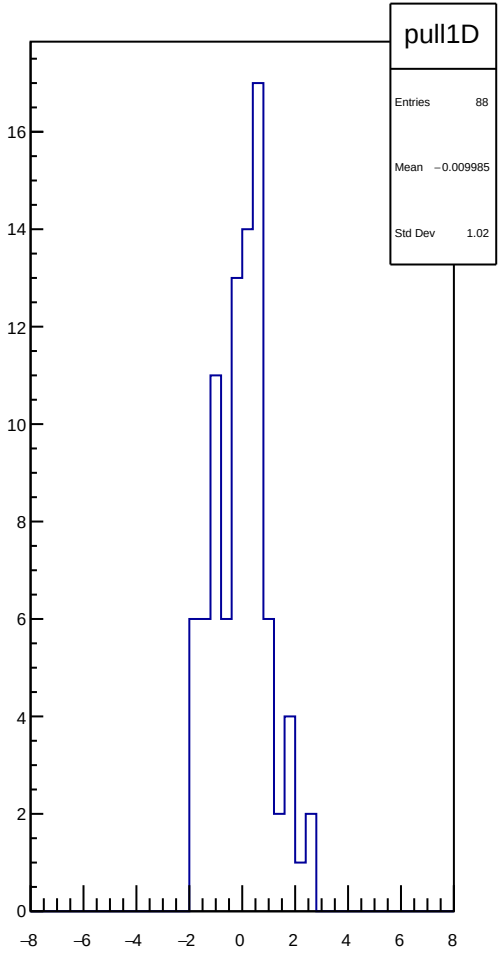

diff_bpm2i01X_rms vs run
χ² / ndf 116.9 / 87
p0 554 ± 0.4279
575
570
565
560
555
550
545
540
535

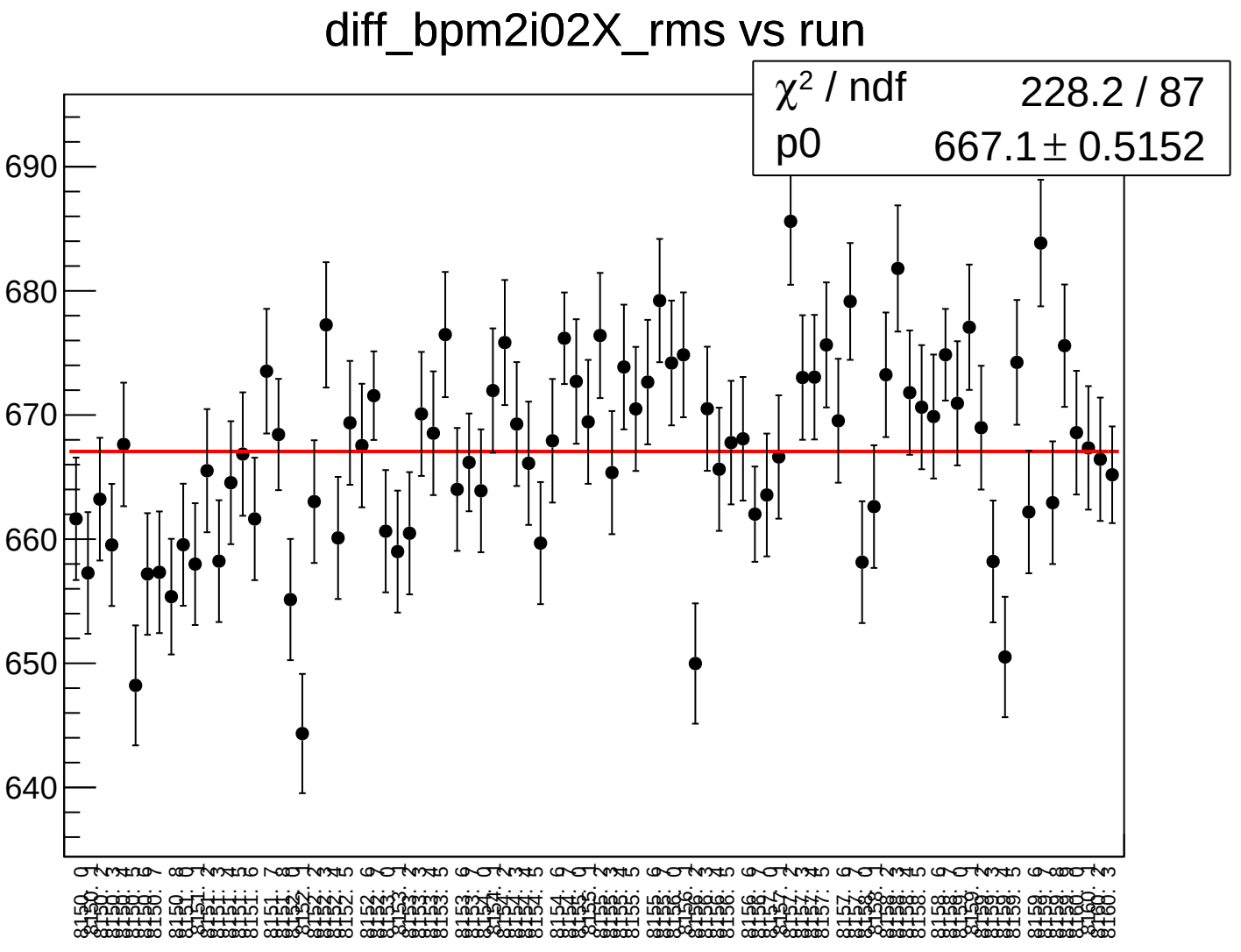

diff_bpm2i01Y_mean vs run
χ² / ndf 84.95 / 87
p0 46.61 ± 0.7151
pull
Entries 88
Mean −345.2
Std Dev 0

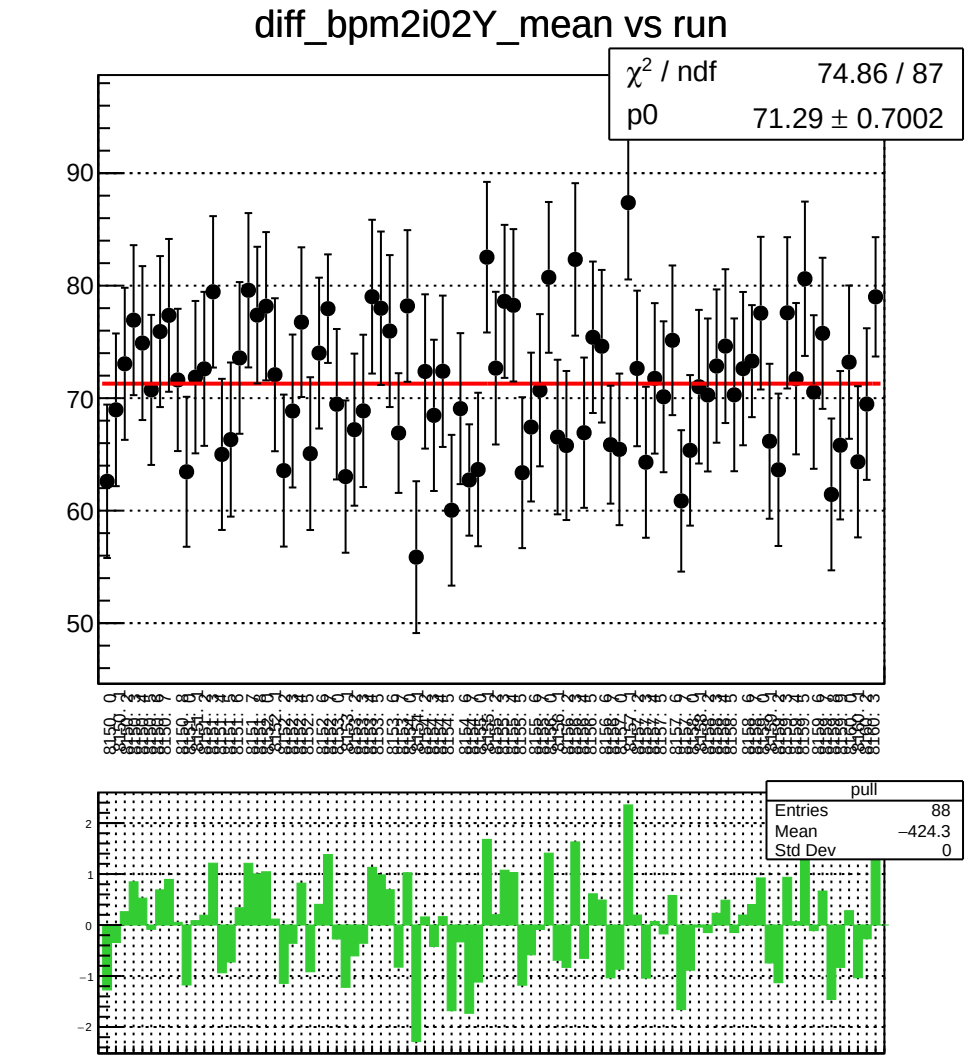

pull1D
Entries 88
Mean −0.007503
Std Dev 0.9825

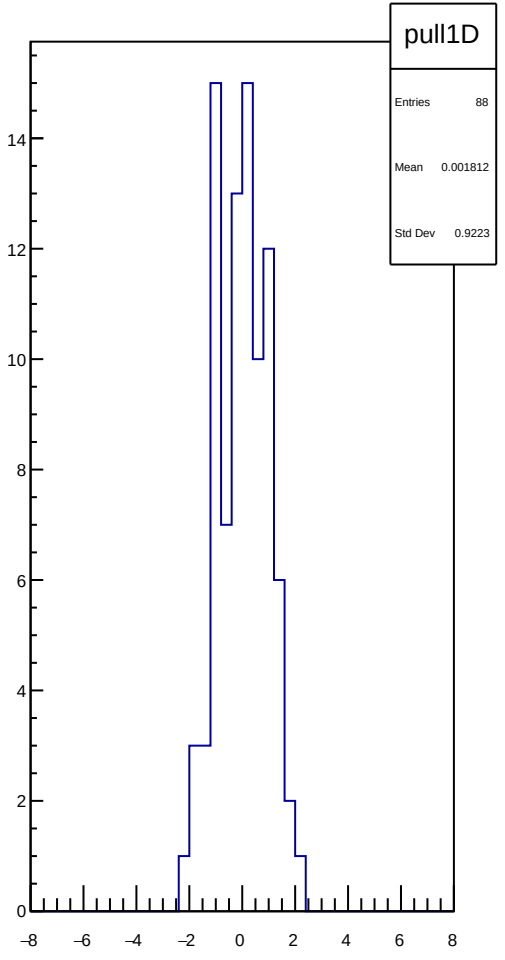

diff_bpm2i01Y_rms vs run
χ^2 / ndf 1884 / 87
p0 654.3 ± 0.5056
740
720
700
680
660
640
620
600

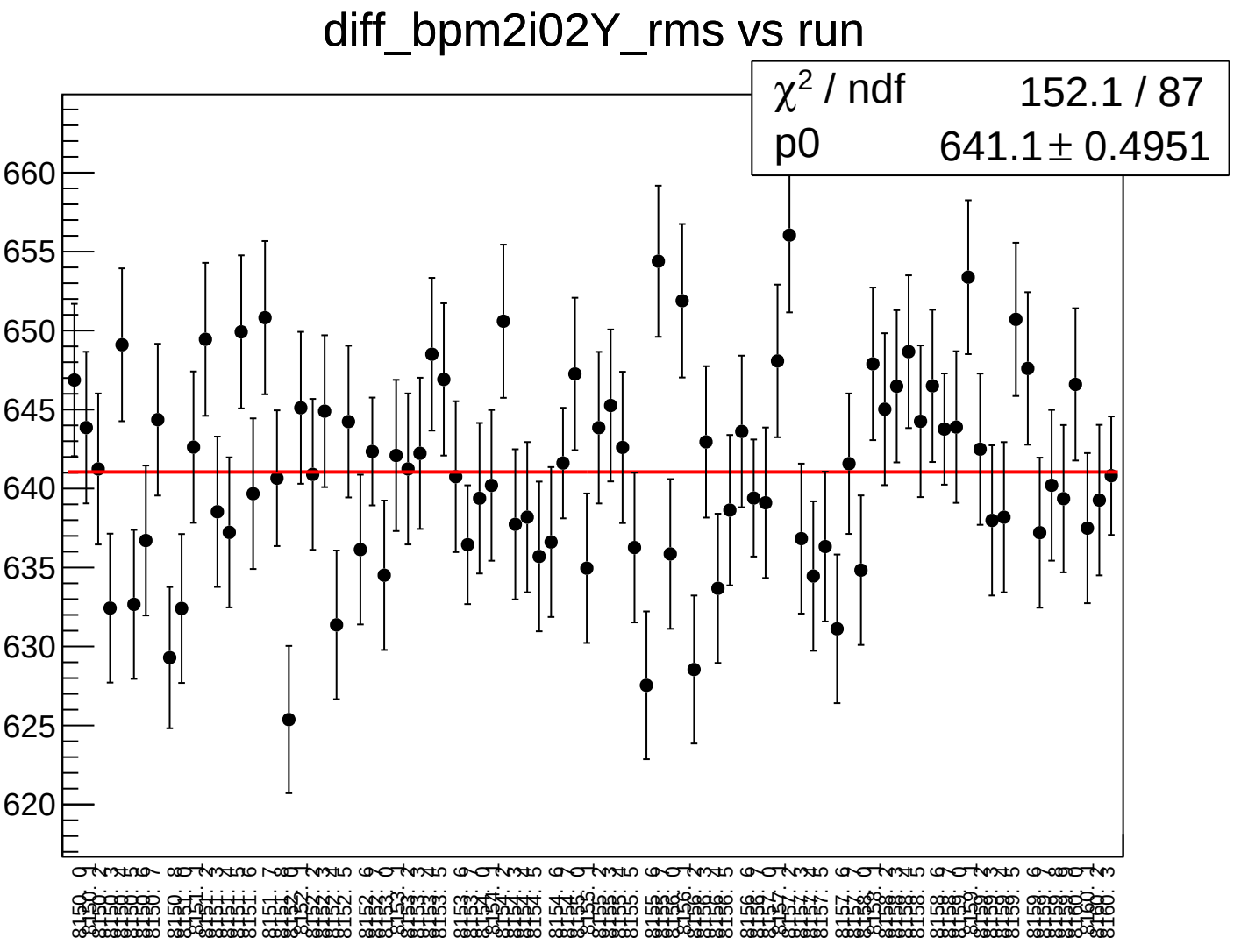

diff_bpm2i02X_mean vs run
χ² / ndf 91.49 / 87
p0 −167.9 ± 0.7286
−140
−150
−160
−170
−180
−190
pull
Entries 88
Mean −128.2
Std Dev 0
2
1
0
−1
−2

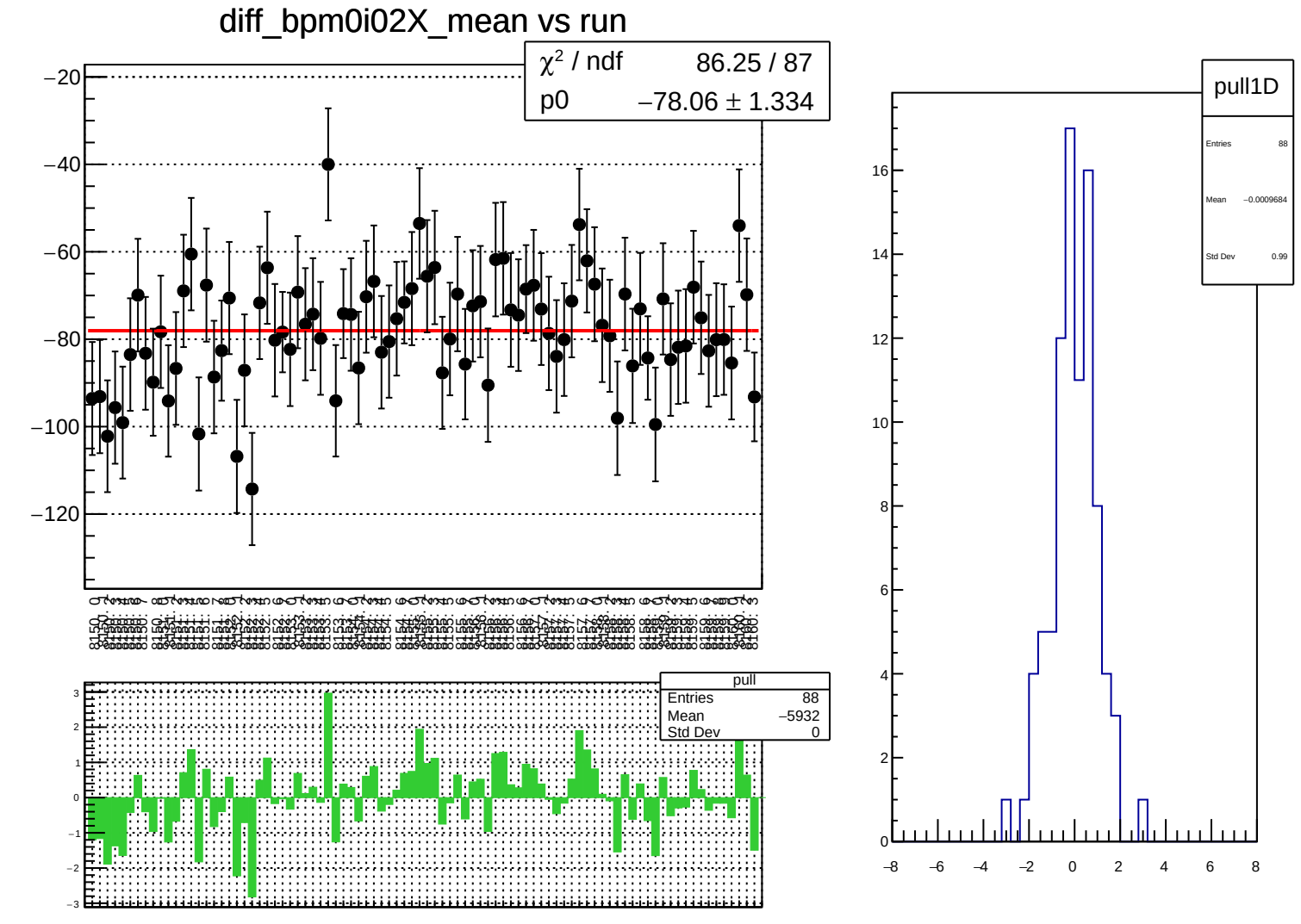

pull1D
Entries 88
Mean −0.009985
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

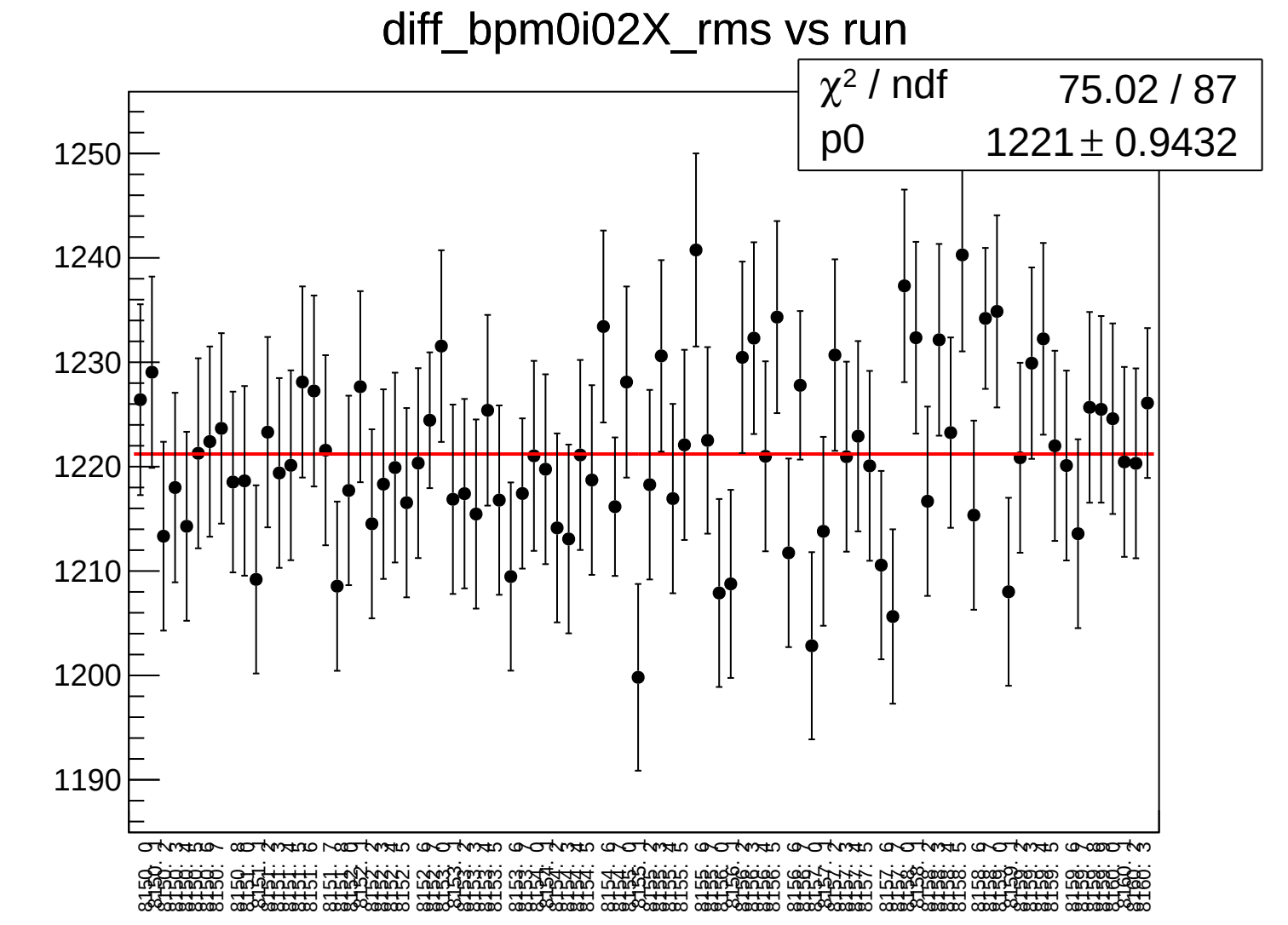

diff_bpm2i02X_rms vs run
χ² / ndf 228.2 / 87
p0 667.1 ± 0.5152
690
680
670
660
650
640

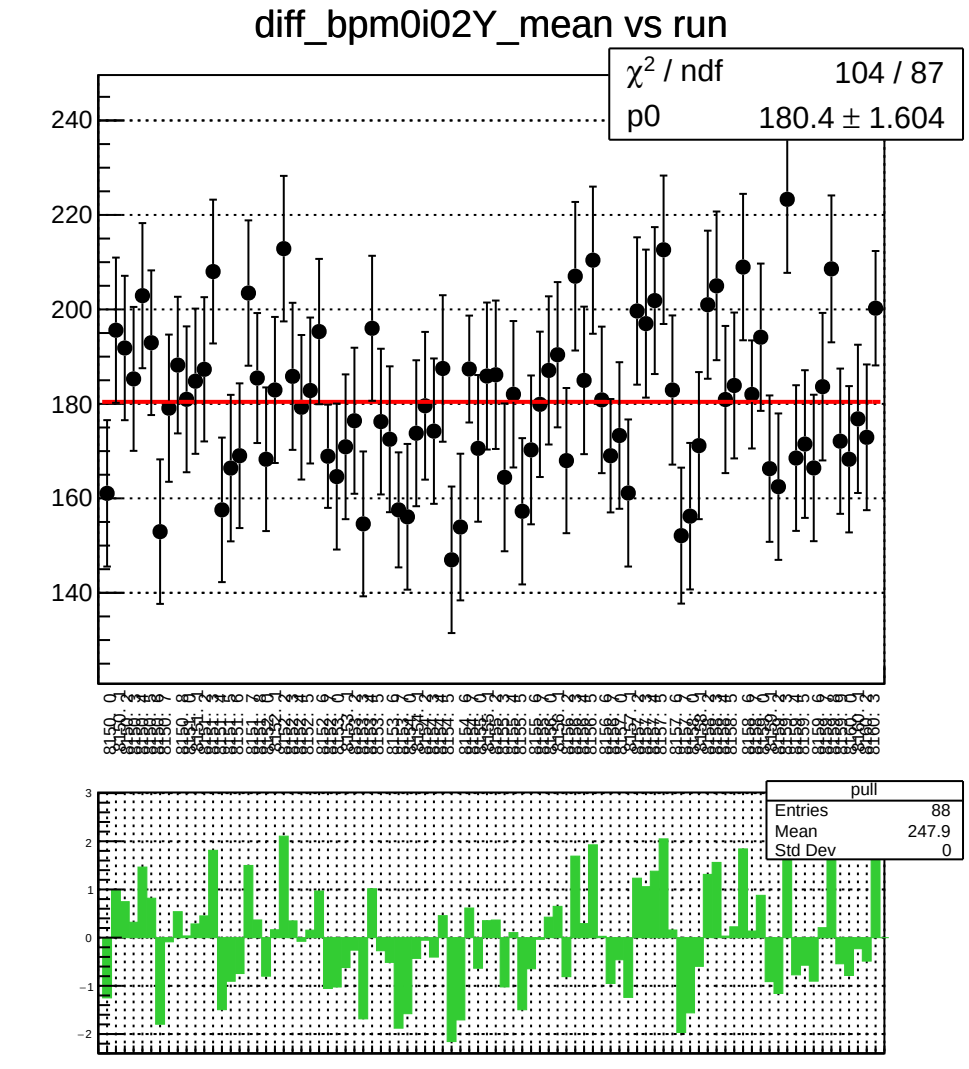

diff_bpm2i02Y_mean vs run
χ² / ndf 74.86 / 87
p0 71.29 ± 0.7002
90
80
70
60
50
pull
Entries 88
Mean −424.3
Std Dev 0
2
1
0
−1
−2

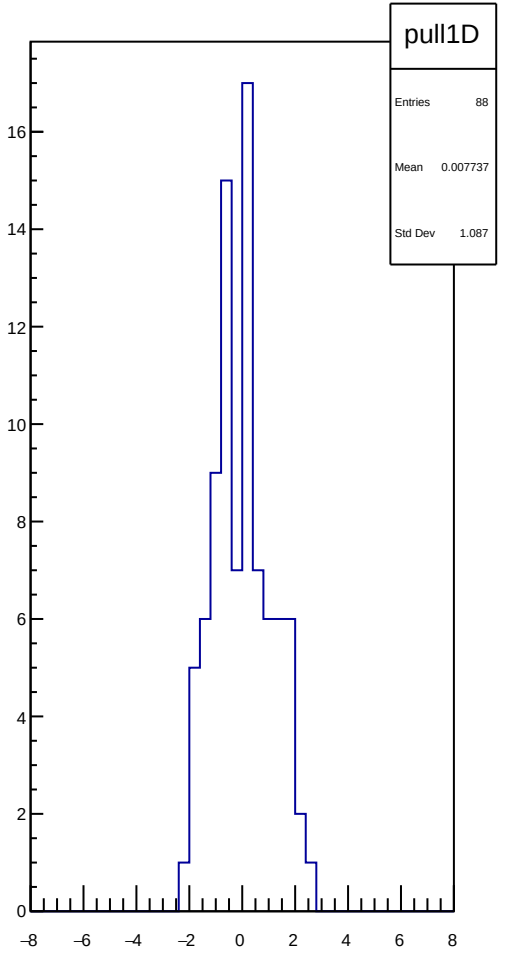

pull1D
Entries 88
Mean 0.001812
Std Dev 0.9223
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

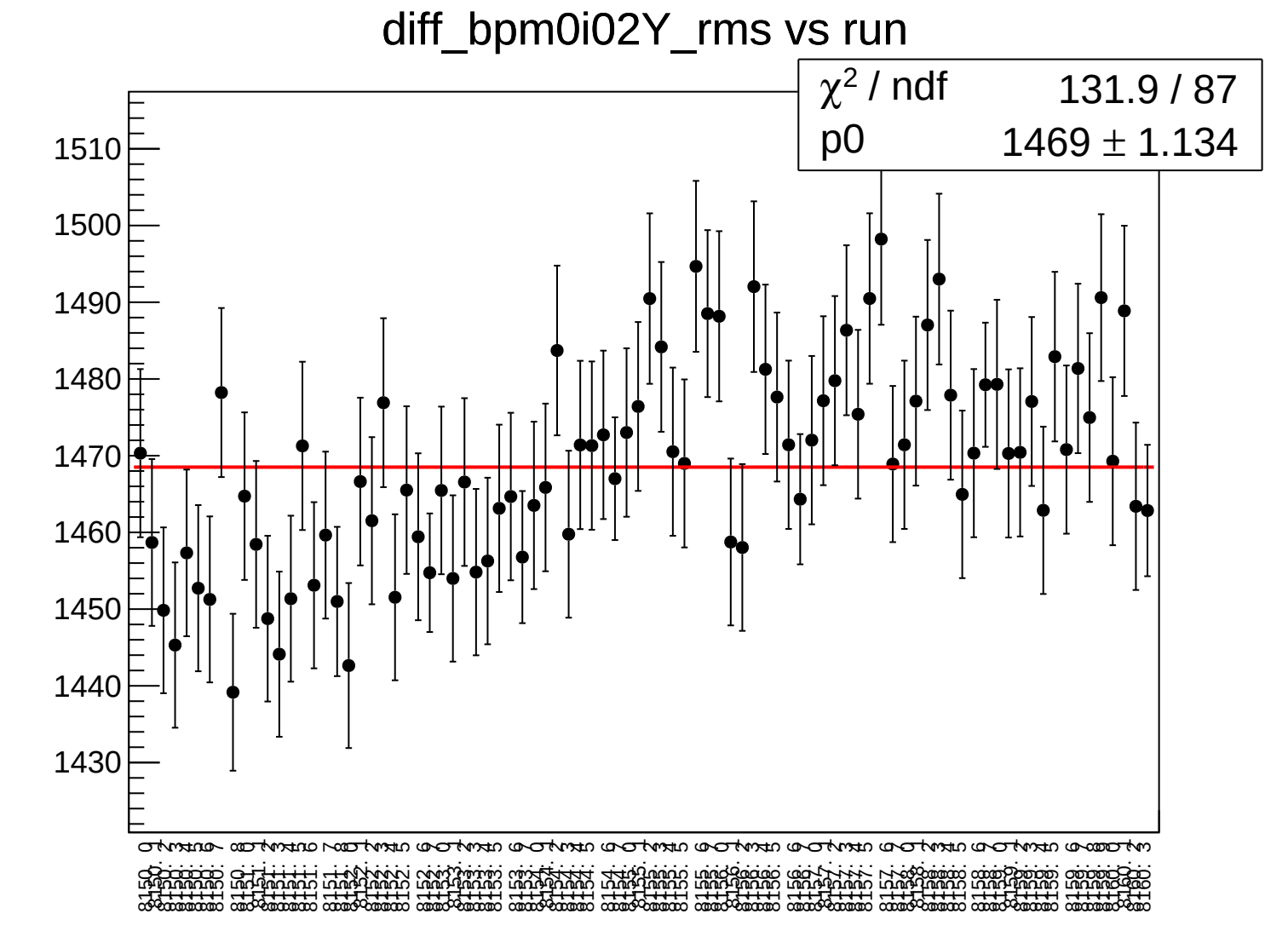

diff_bpm2i02Y_rms vs run
χ² / ndf 152.1 / 87
p0 641.1 ± 0.4951
660
655
650
645
640
635
630
625
620

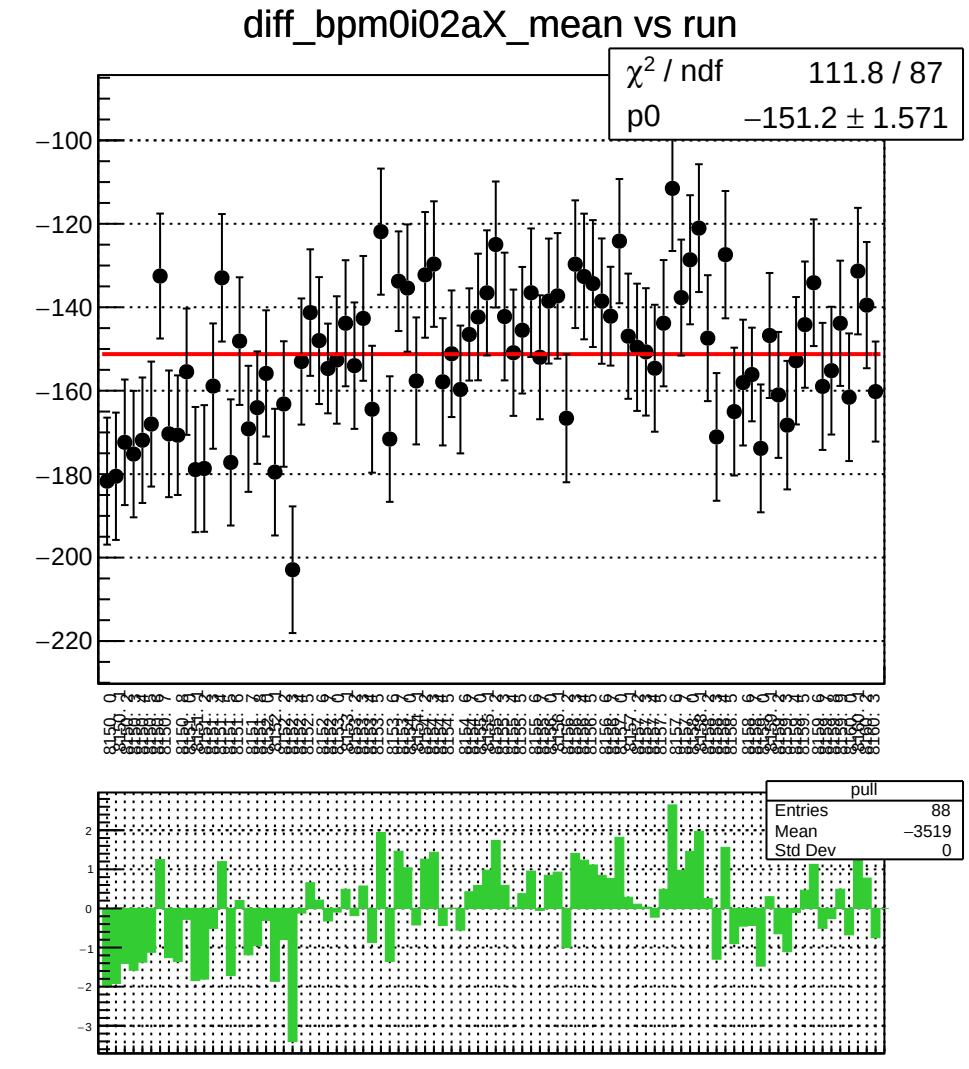

diff_bpm0i02X_mean vs run
χ² / ndf 86.25 / 87
p0 −78.06 ± 1.334
pull
Entries 88
Mean −5932
Std Dev 0
pull1D
Entries 88
Mean −0.0009684
Std Dev 0.99

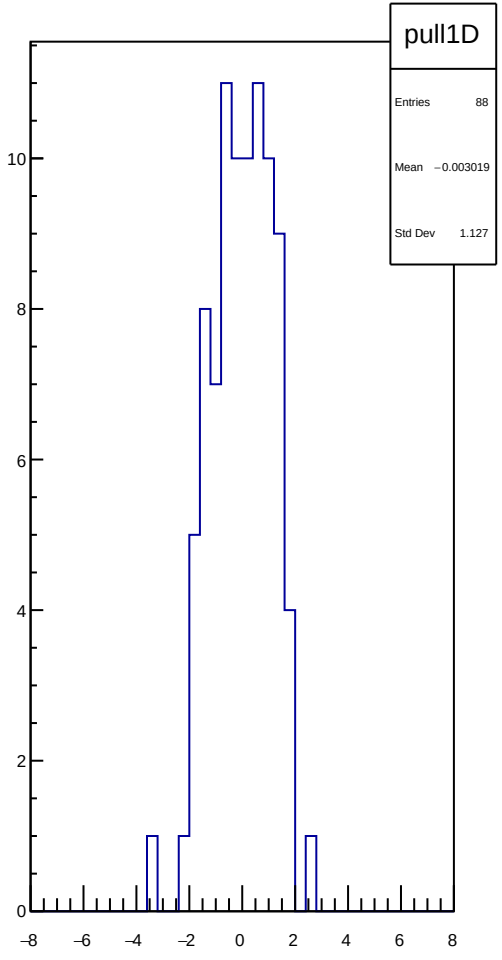

diff_bpm0i02X_rms vs run
χ² / ndf 75.02 / 87
p0 1221 ± 0.9432
1250
1240
1230
1220
1210
1200
1190

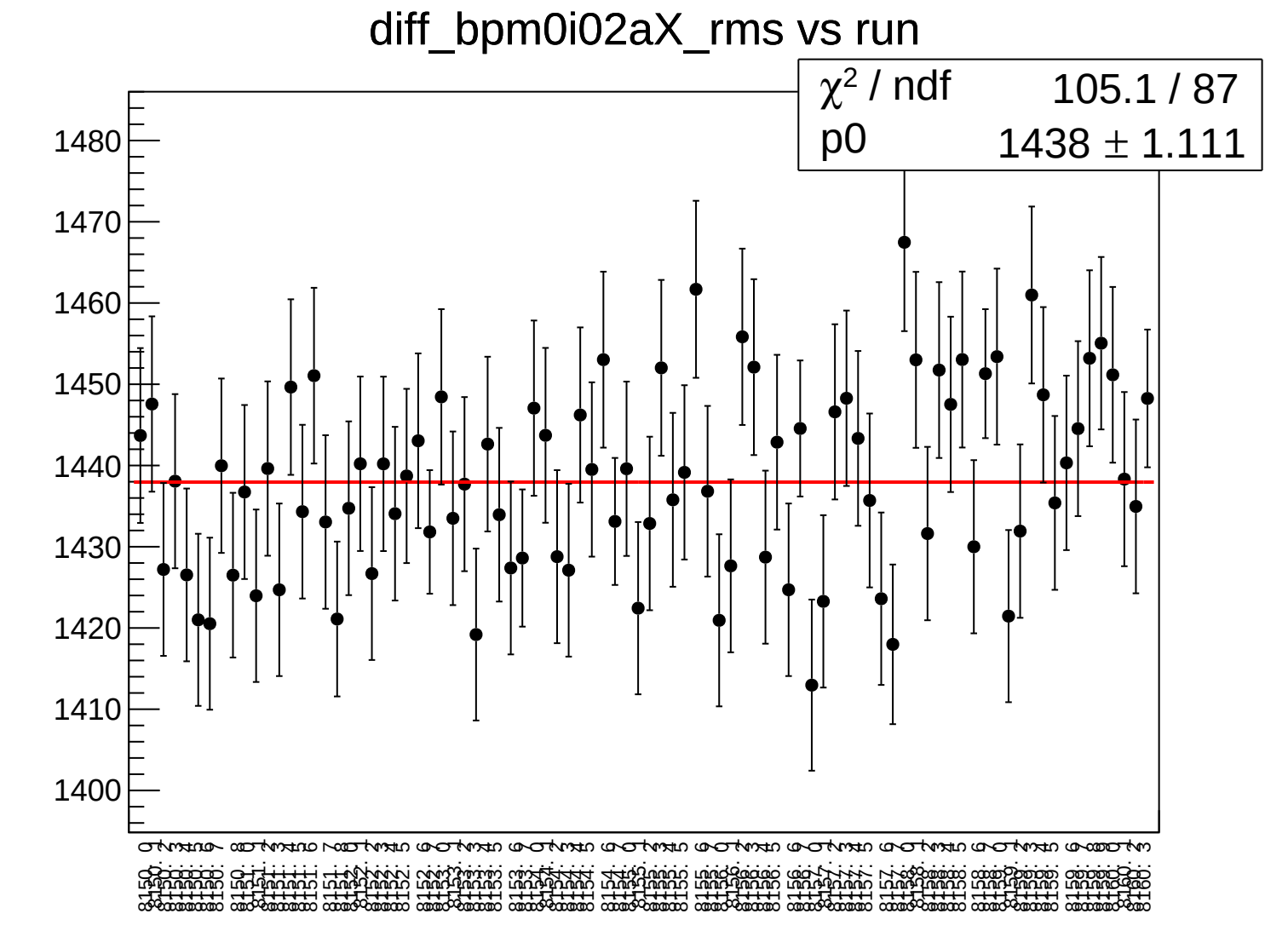

diff_bpm0i02Y_mean vs run
χ² / ndf 104 / 87
p0 180.4 ± 1.604
240
220
200
180
160
140
pull
Entries 88
Mean 247.9
Std Dev 0
3
2
1
0
−1
−2

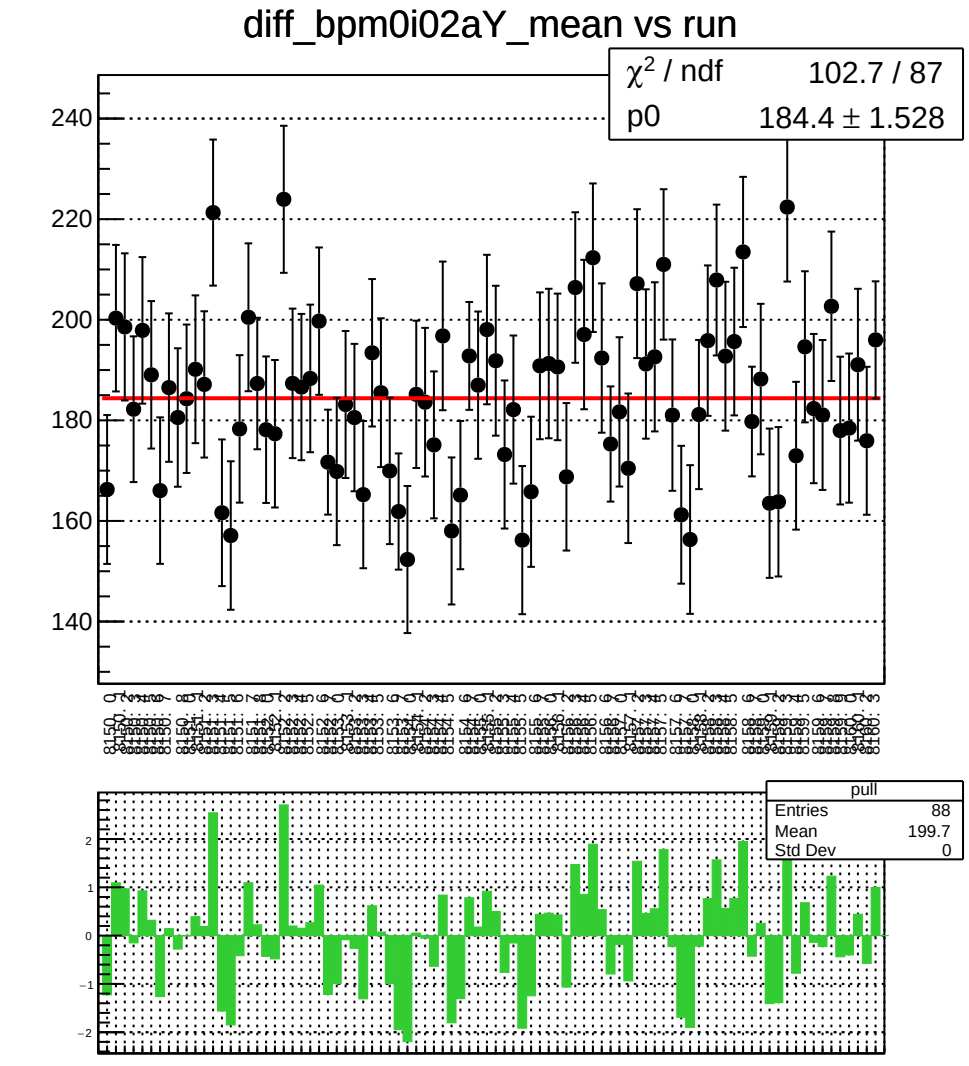

pull1D
Entries 88
Mean 0.007737
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

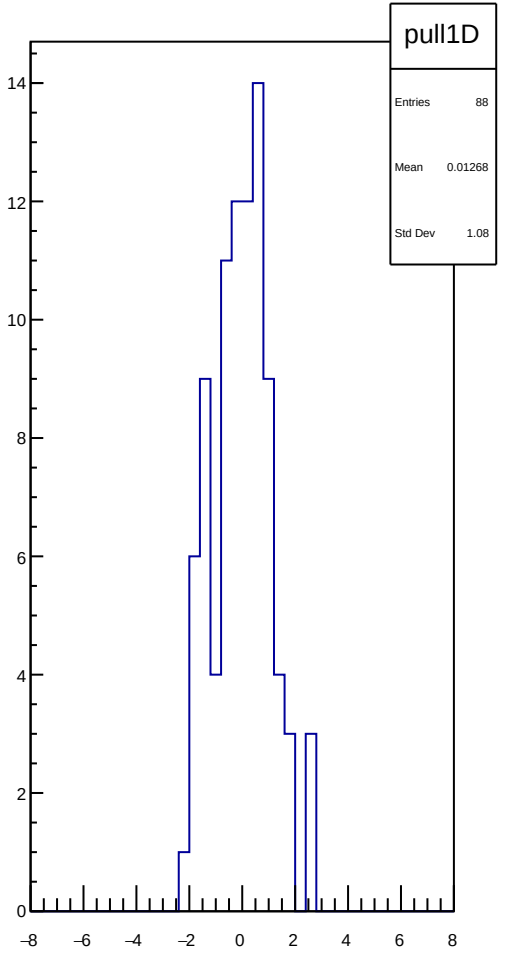

diff_bpm0i02Y_rms vs run
χ² / ndf 131.9 / 87
p0 1469 ± 1.134
1510
1500
1490
1480
1470
1460
1450
1440
1430

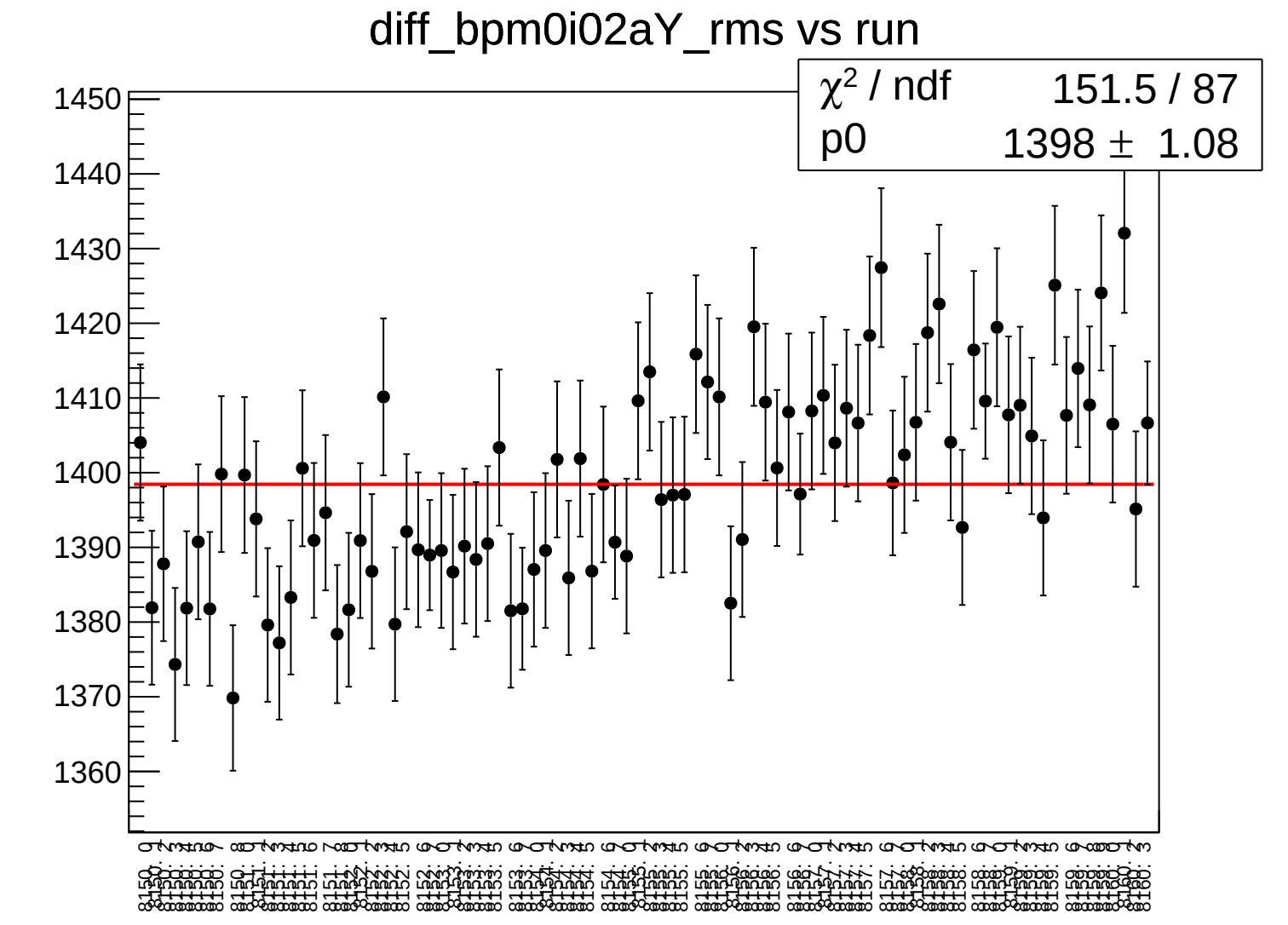

diff_bpm0i02aX_mean vs run
χ² / ndf 111.8 / 87
p0 −151.2 ± 1.571
pull
Entries 88
Mean −3519
Std Dev 0

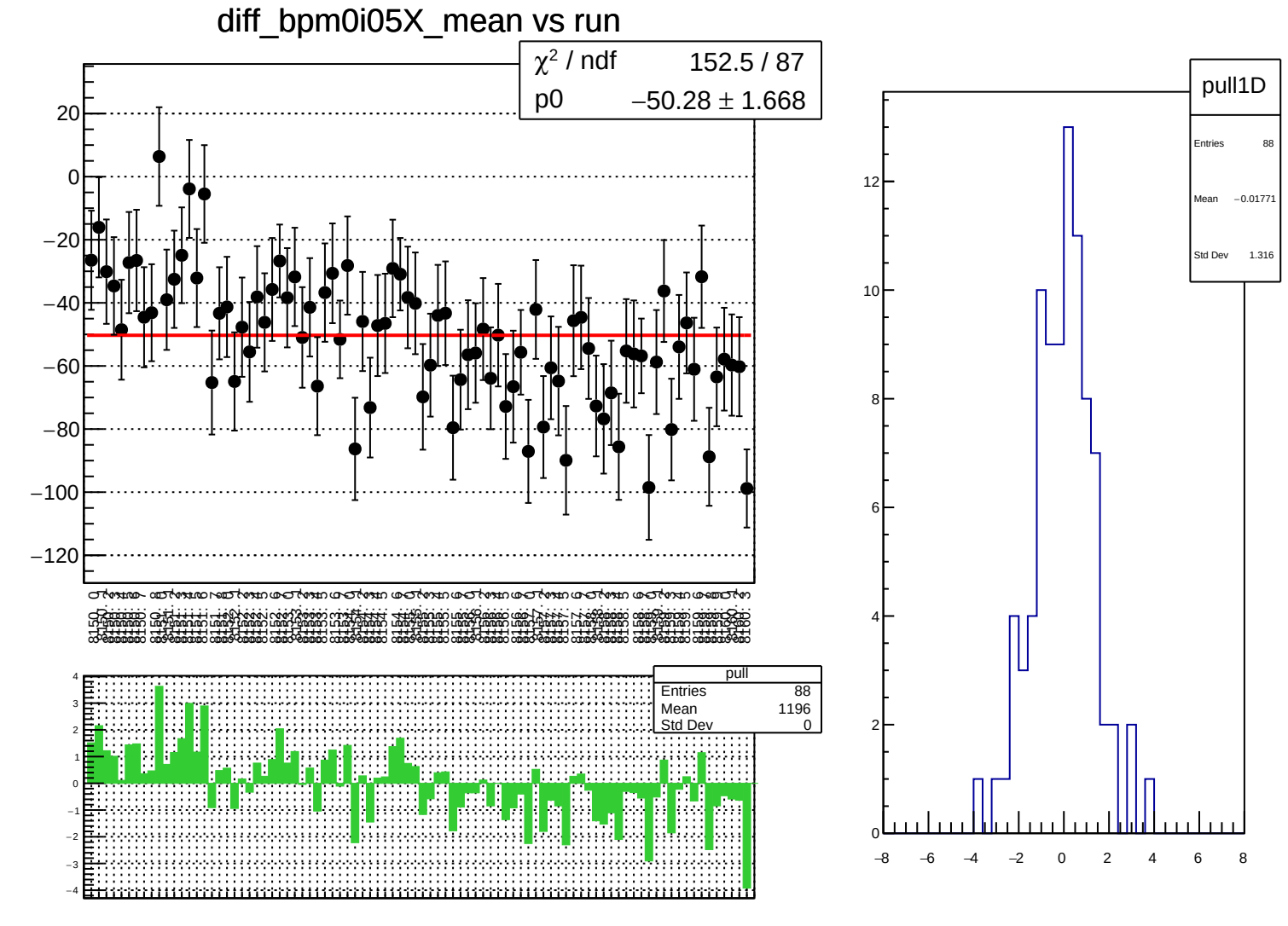

pull1D
Entries 88
Mean −0.003019
Std Dev 1.127

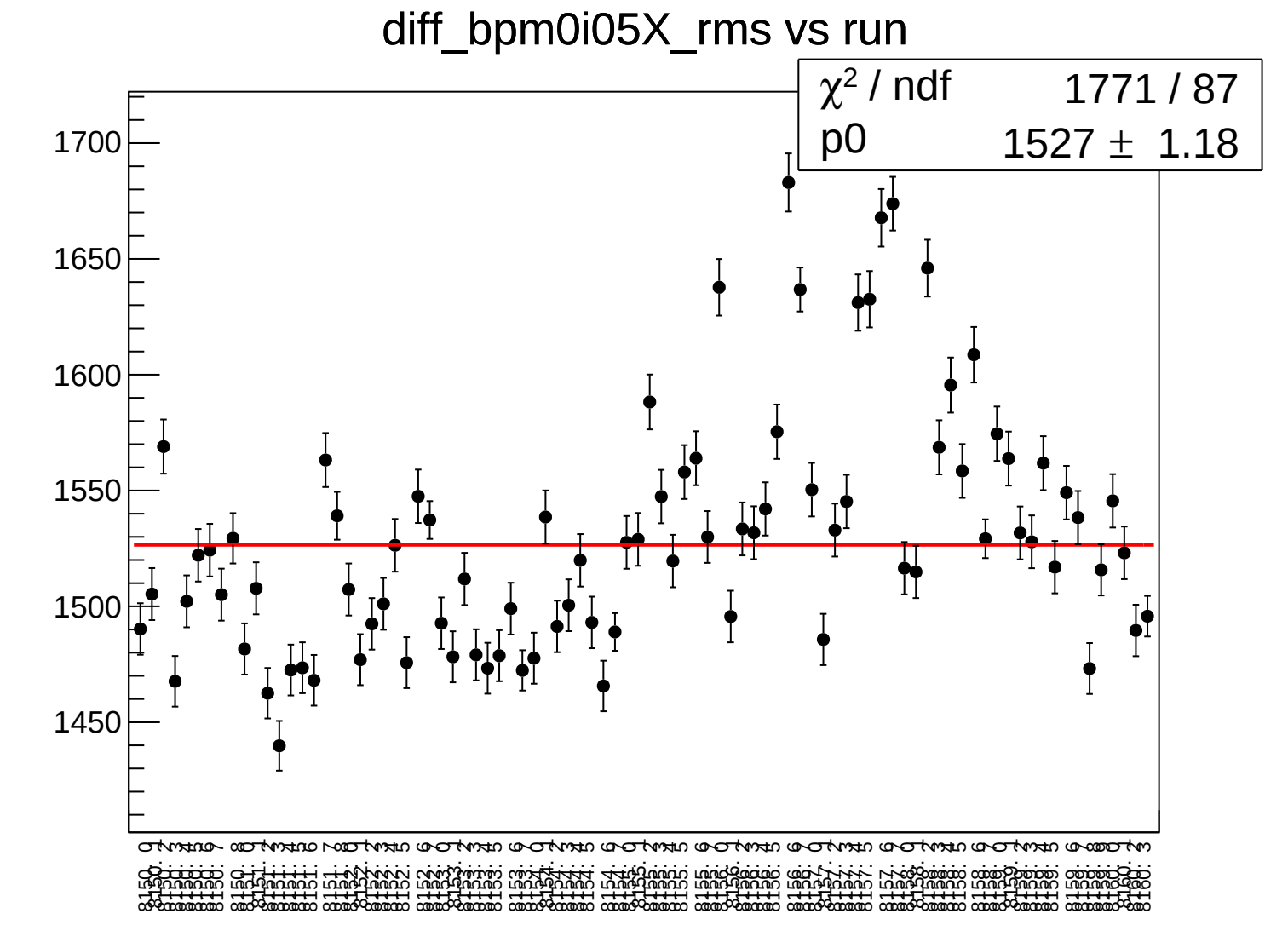

diff_bpm0i02aX_rms vs run
χ² / ndf 105.1 / 87
p0 1438 ± 1.111
1480
1470
1460
1450
1440
1430
1420
1410
1400

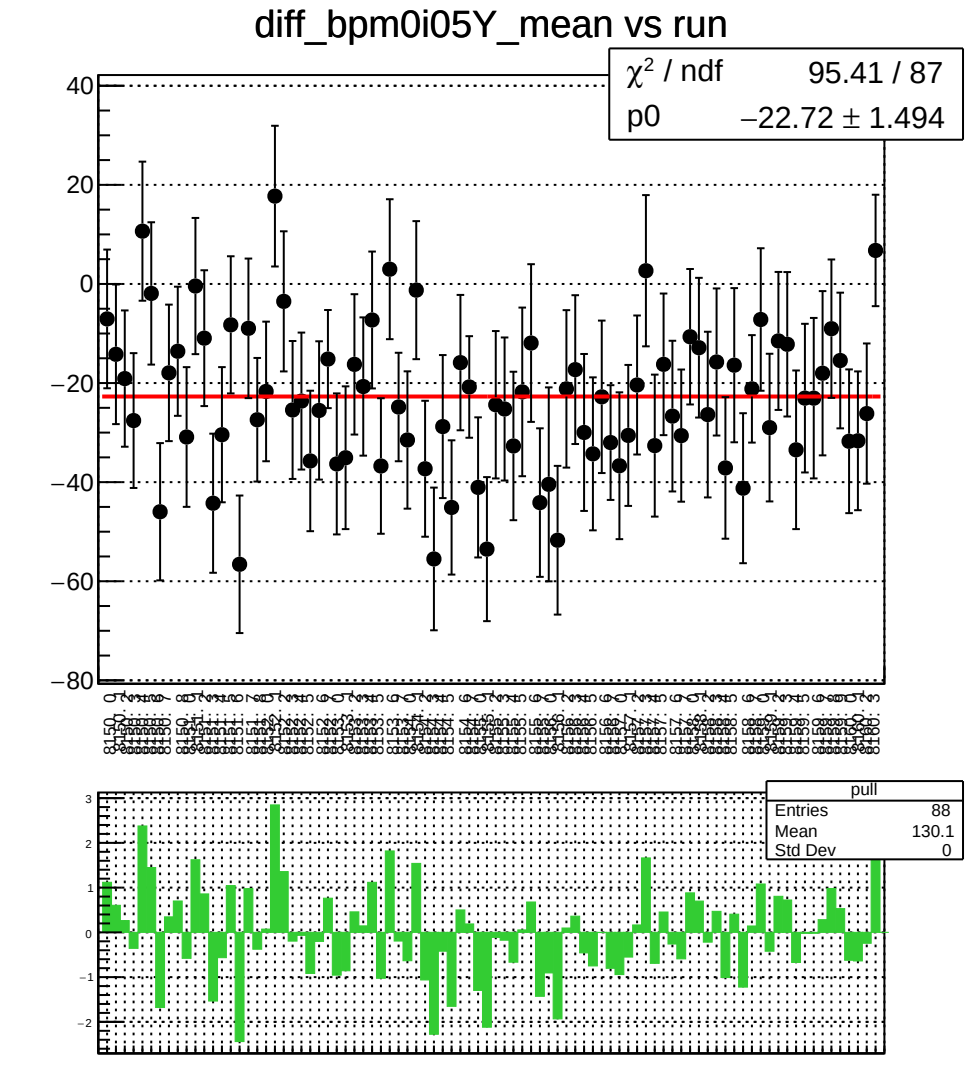

diff_bpm0i02aY_mean vs run
χ² / ndf 102.7 / 87
p0 184.4 ± 1.528
240
220
200
180
160
140
pull
Entries 88
Mean 199.7
Std Dev 0
2
1
0
−1
−2

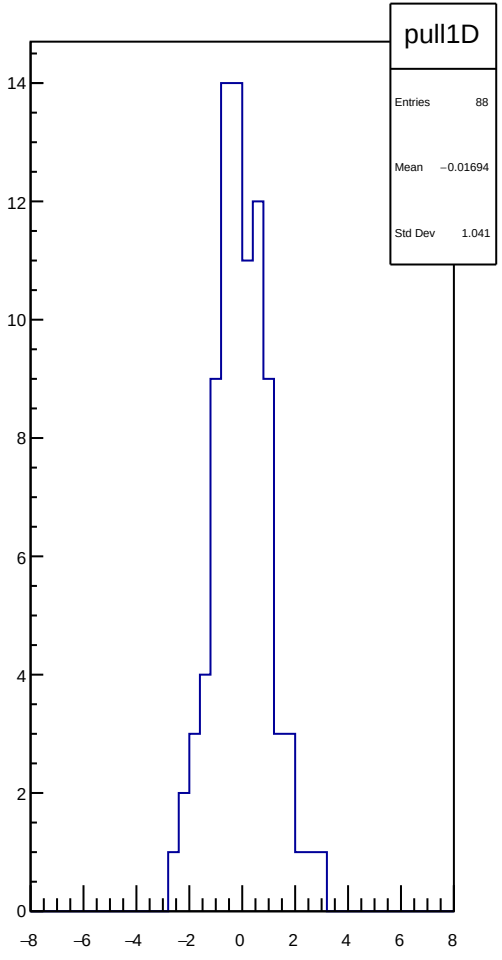

pull1D
Entries 88
Mean 0.01268
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

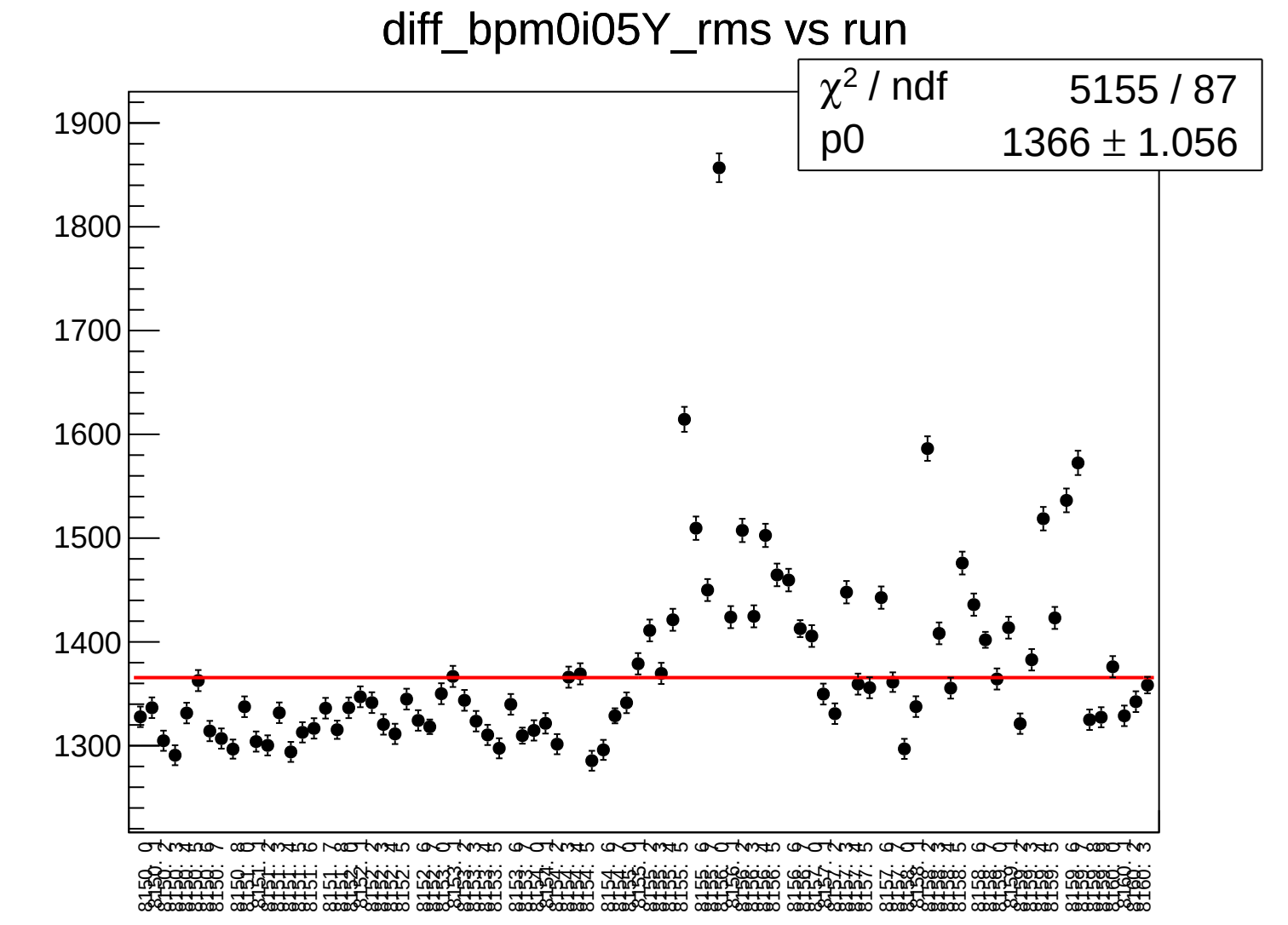

diff_bpm0i02aY_rms vs run
χ² / ndf 151.5 / 87
p0 1398 ± 1.08
1450
1440
1430
1420
1410
1400
1390
1380
1370
1360

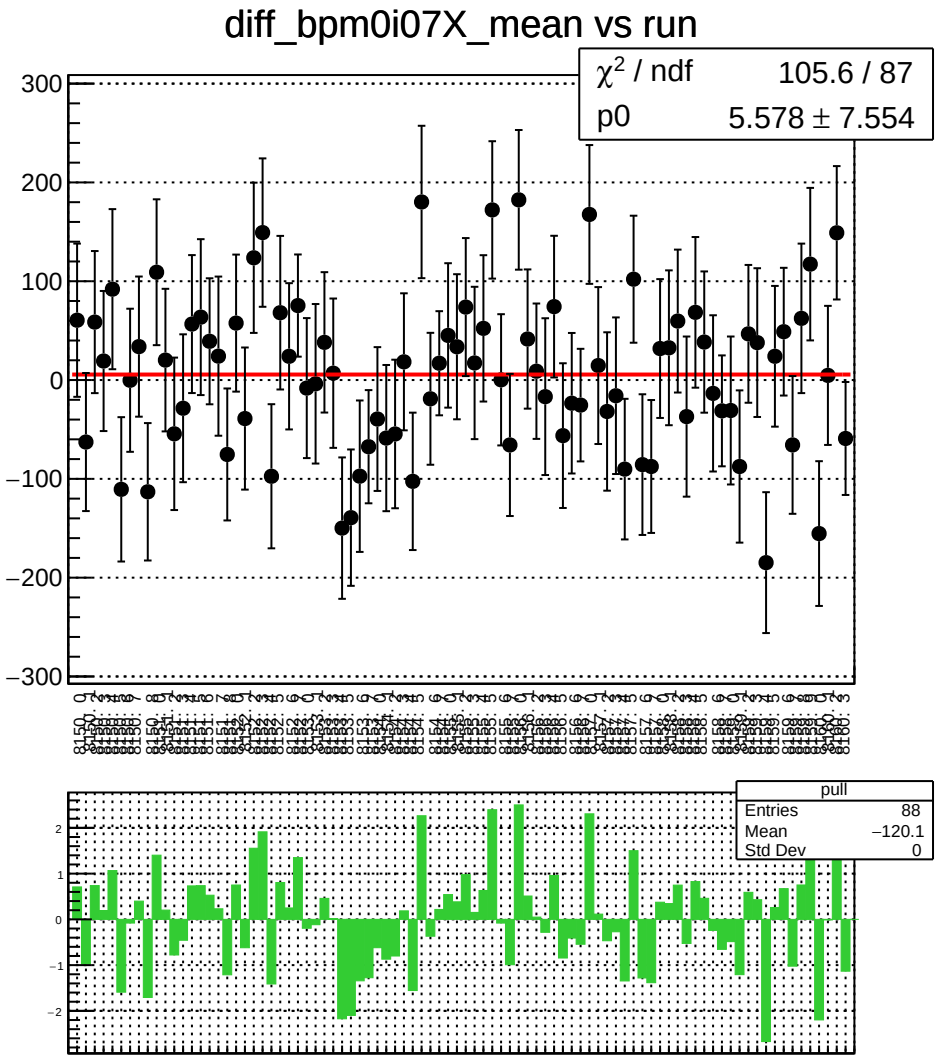

diff_bpm0i05X_mean vs run
χ² / ndf 152.5 / 87
p0 −50.28 ± 1.668
pull
Entries 88
Mean 1196
Std Dev 0
pull1D
Entries 88
Mean −0.01771
Std Dev 1.316

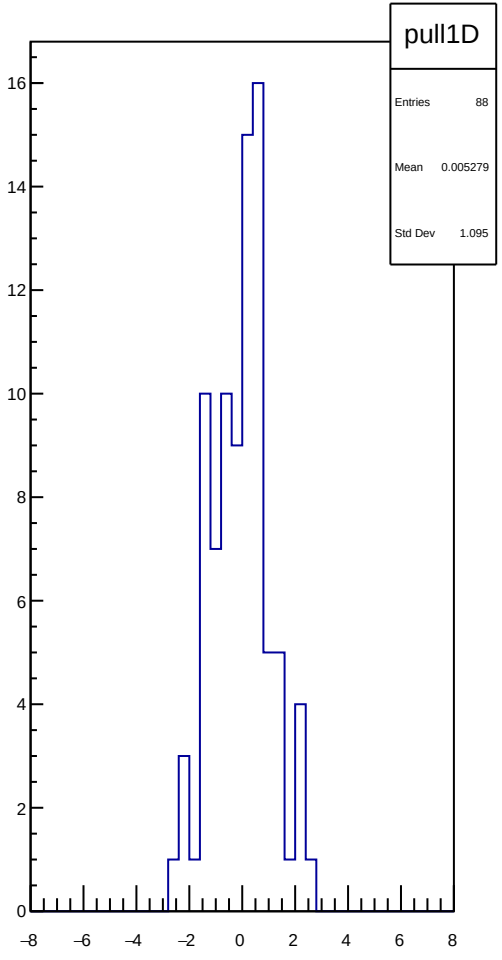

diff_bpm0i05X_rms vs run
χ² / ndf 1771 / 87
p0 1527 ± 1.18
1700
1650
1600
1550
1500
1450

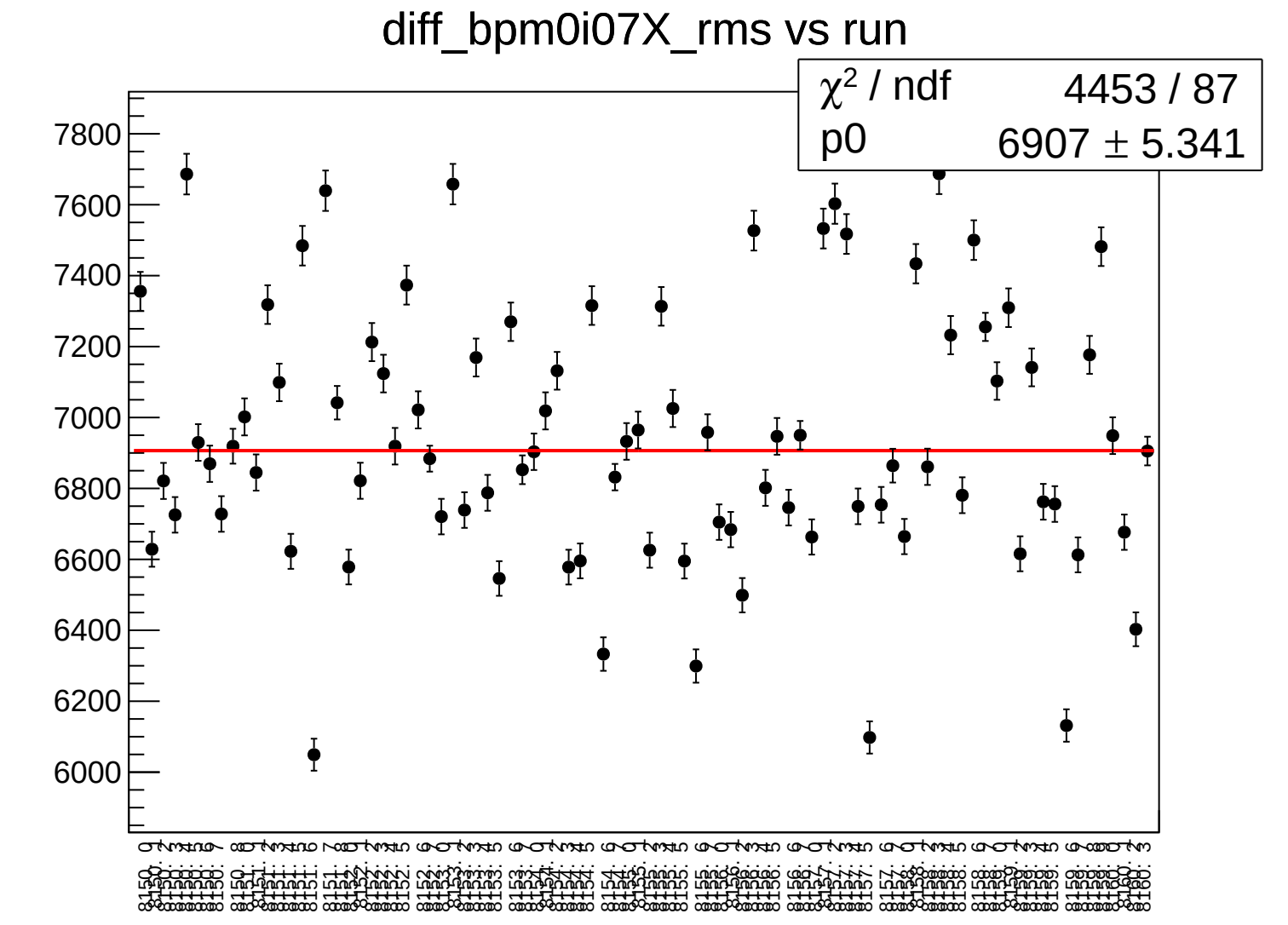

diff_bpm0i05Y_mean vs run
χ² / ndf 95.41 / 87
p0 −22.72 ± 1.494
pull
Entries 88
Mean 130.1
Std Dev 0

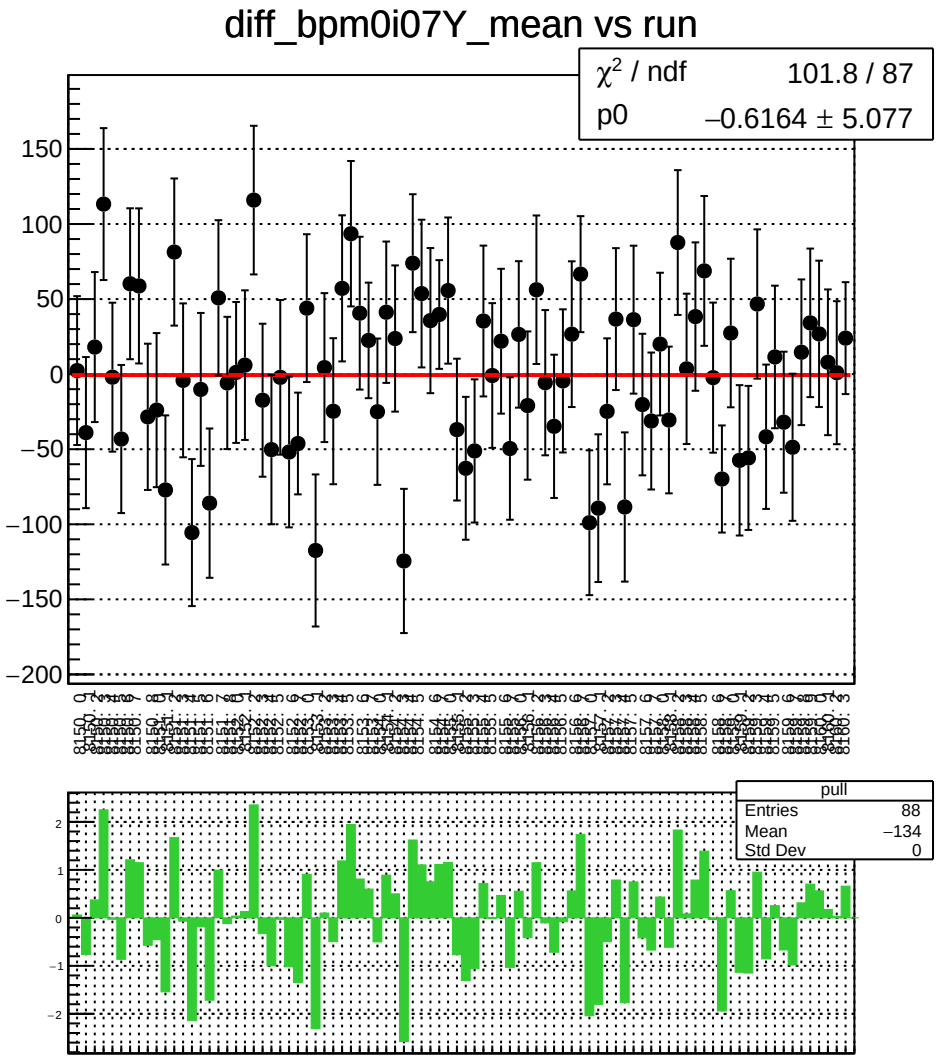

pull1D
Entries 88
Mean −0.01694
Std Dev 1.041

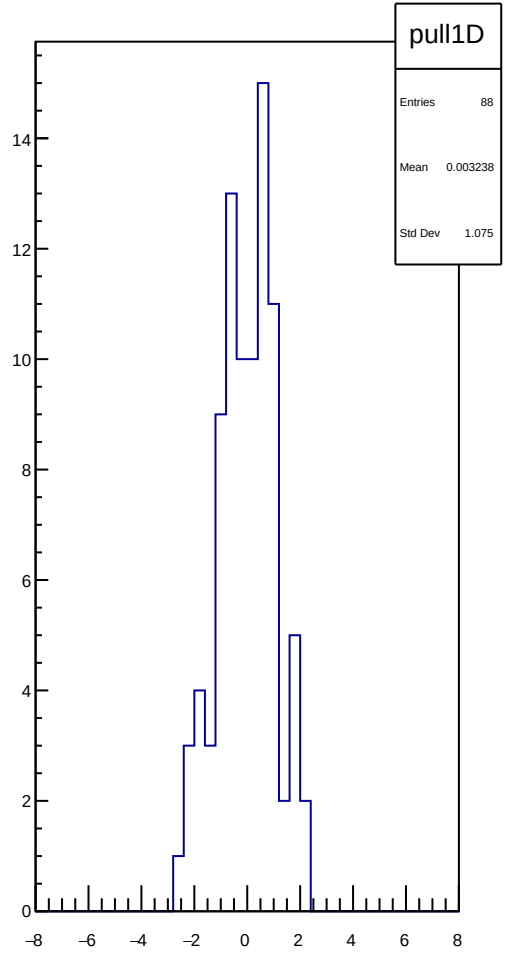

diff_bpm0i05Y_rms vs run
χ² / ndf 5155 / 87
p0 1366 ± 1.056
1900
1800
1700
1600
1500
1400
1300

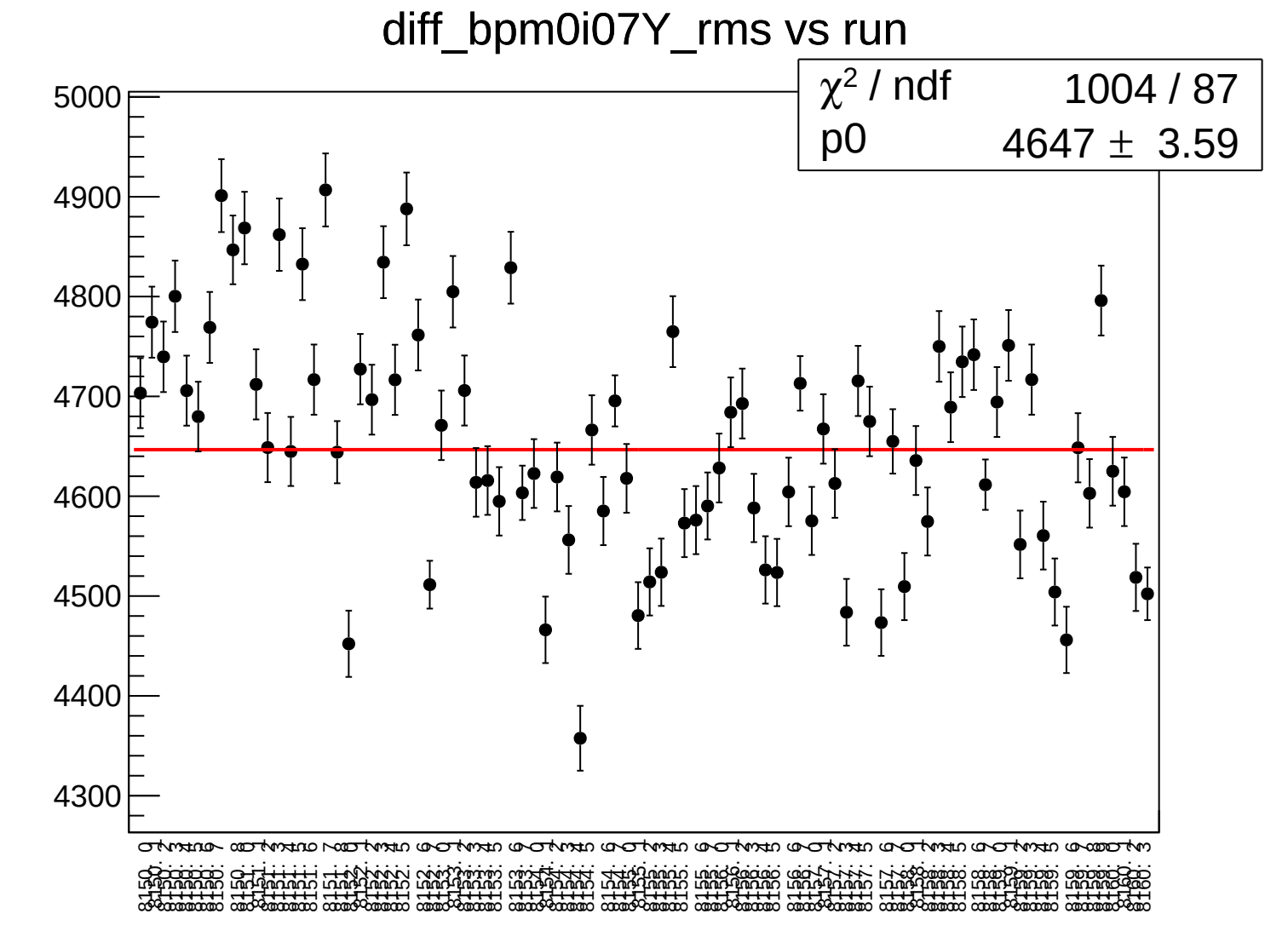

diff_bpm0i07X_mean vs run
χ² / ndf 105.6 / 87
p0 5.578 ± 7.554
pull
Entries 88
Mean −120.1
Std Dev 0

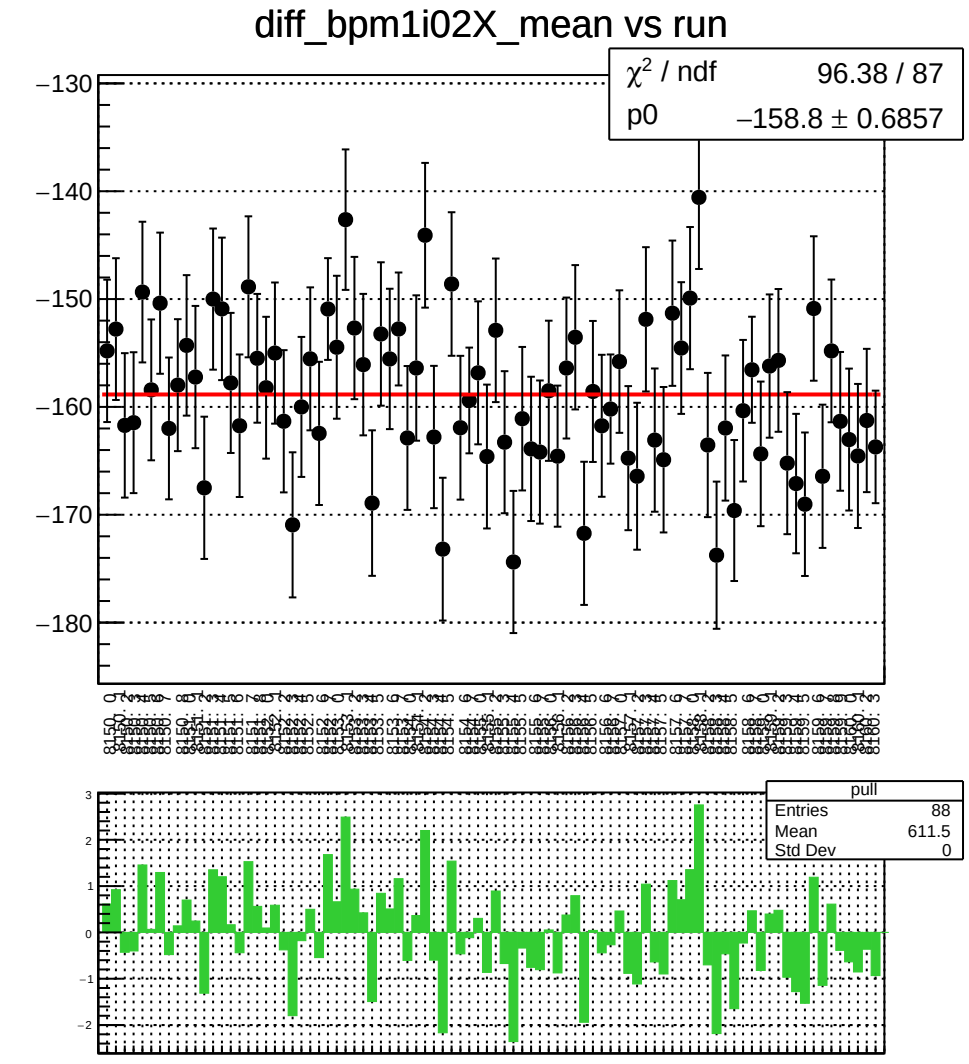

pull1D
Entries 88
Mean 0.005279
Std Dev 1.095

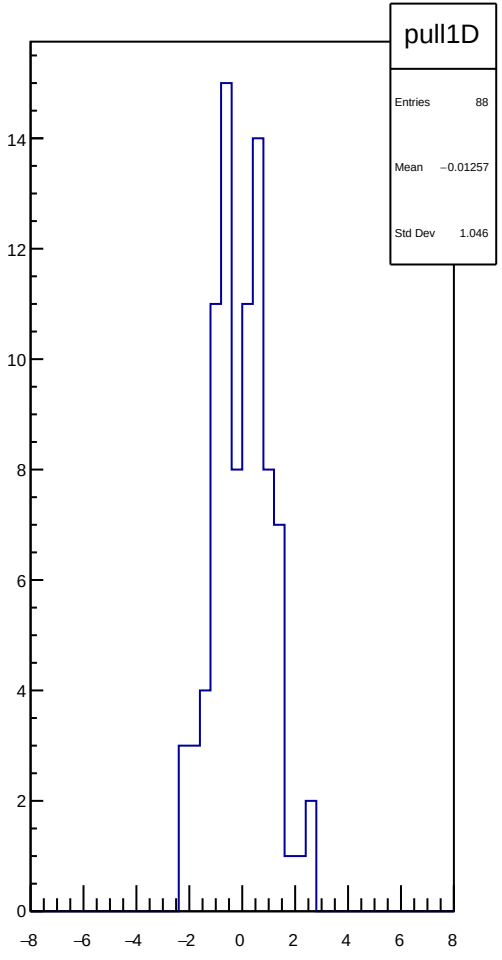

diff_bpm0i07X_rms vs run
χ² / ndf 4453 / 87
p0 6907 ± 5.341
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

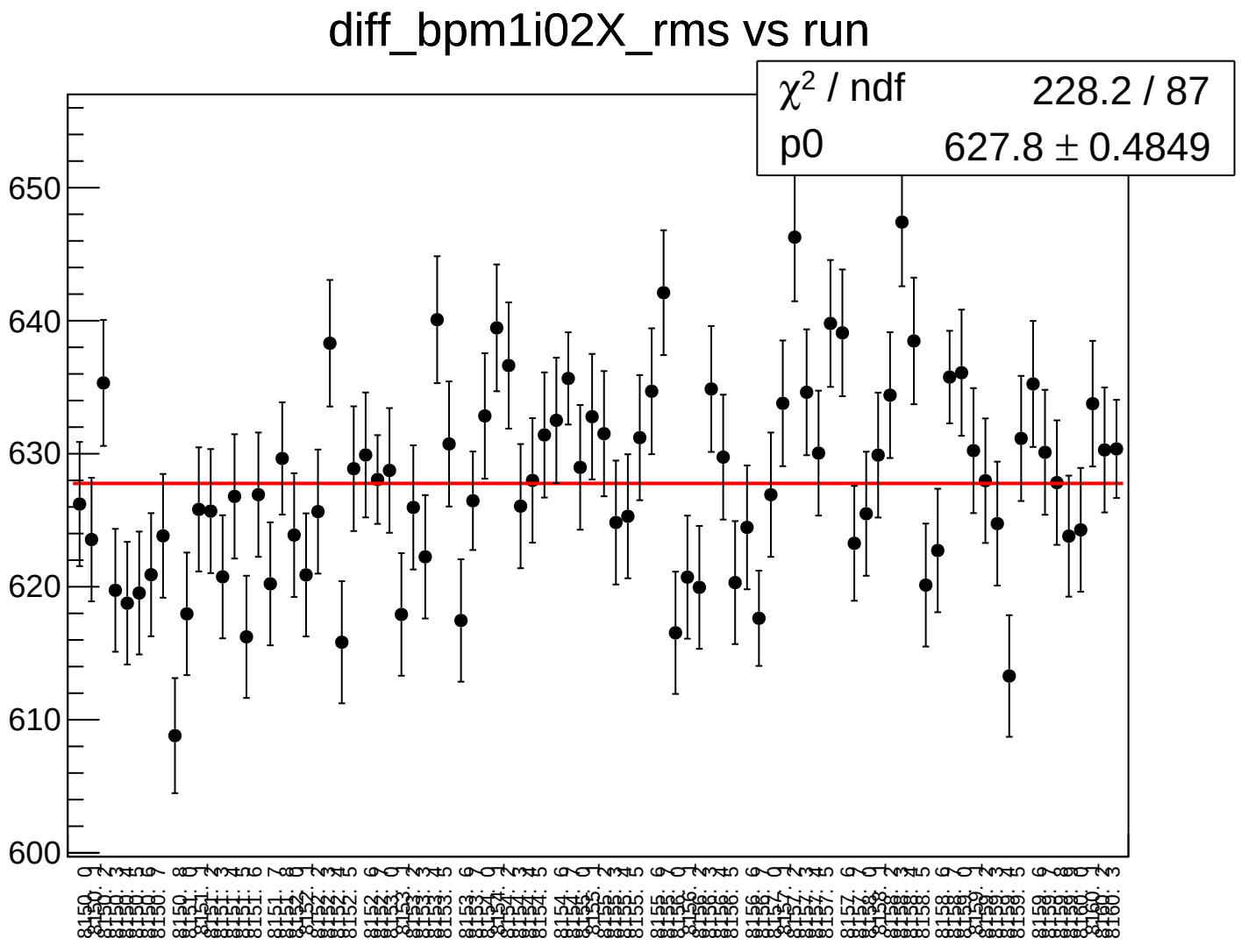

diff_bpm0i07Y_mean vs run
χ² / ndf 101.8 / 87
p0 −0.6164 ± 5.077
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −134
Std Dev 0
2
1
0
−1
−2

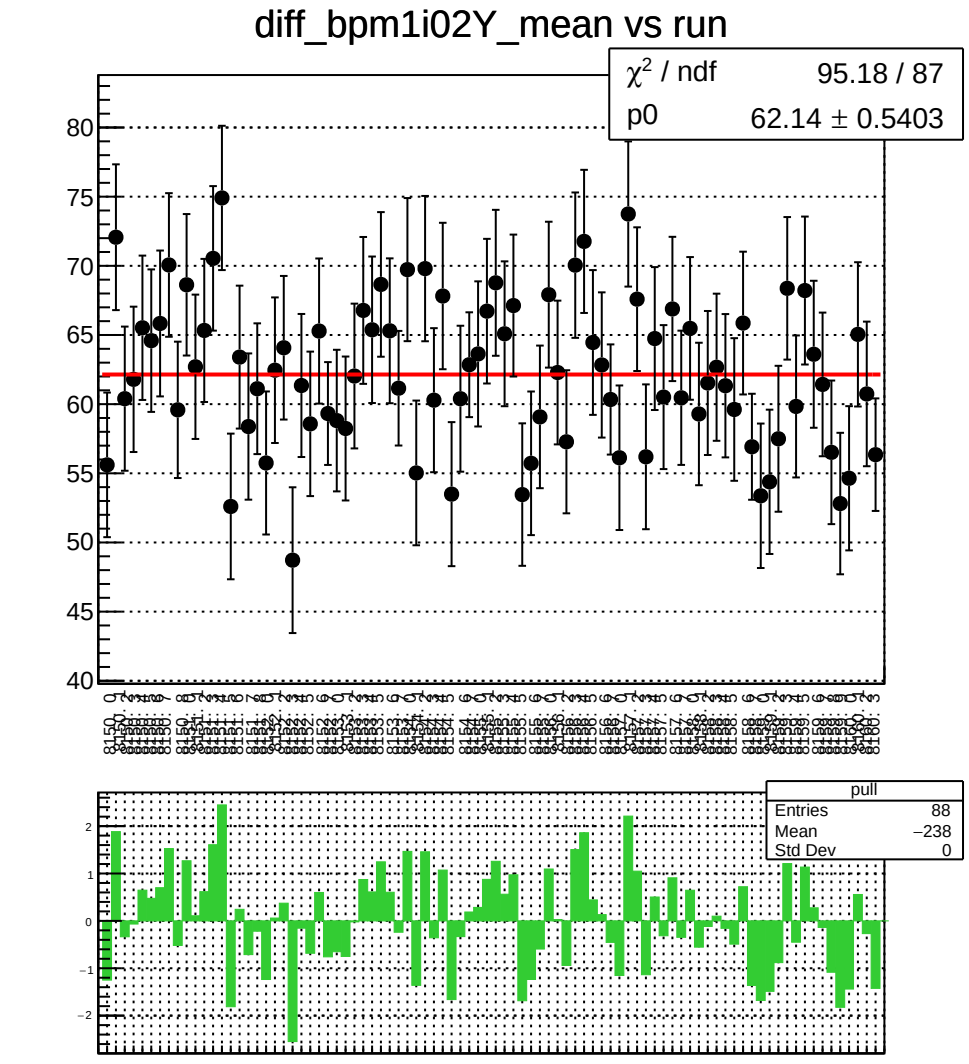

pull1D
Entries 88
Mean 0.003238
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

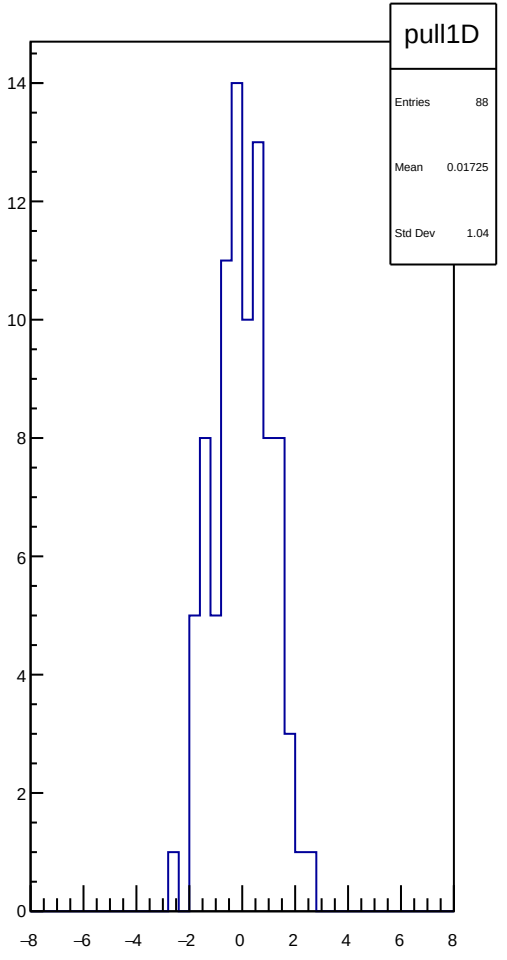

diff_bpm0i07Y_rms vs run
χ² / ndf 1004 / 87
p0 4647 ± 3.59
5000
4900
4800
4700
4600
4500
4400
4300

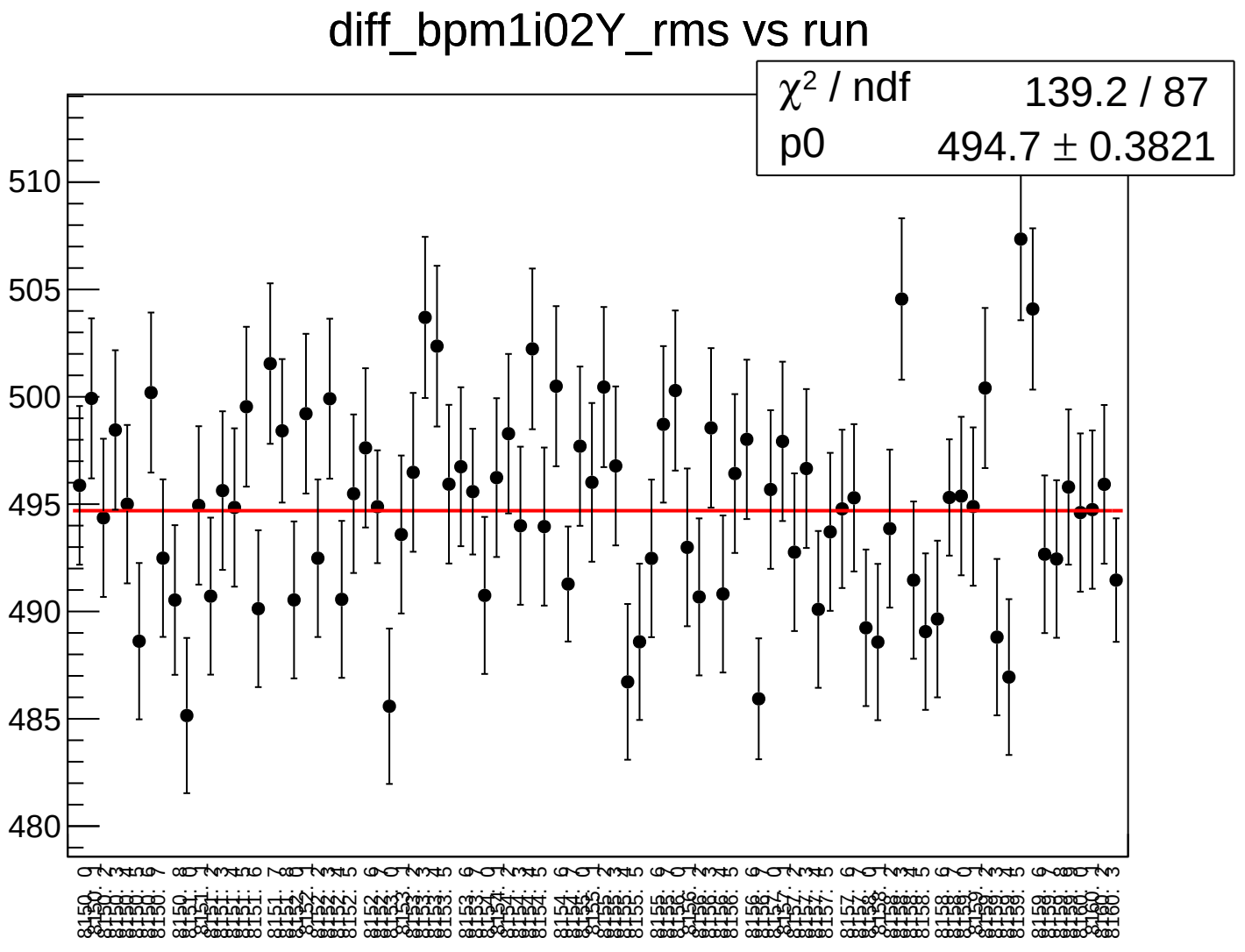

diff_bpm1i02X_mean vs run
χ² / ndf 96.38 / 87
p0 −158.8 ± 0.6857
pull
Entries 88
Mean 611.5
Std Dev 0

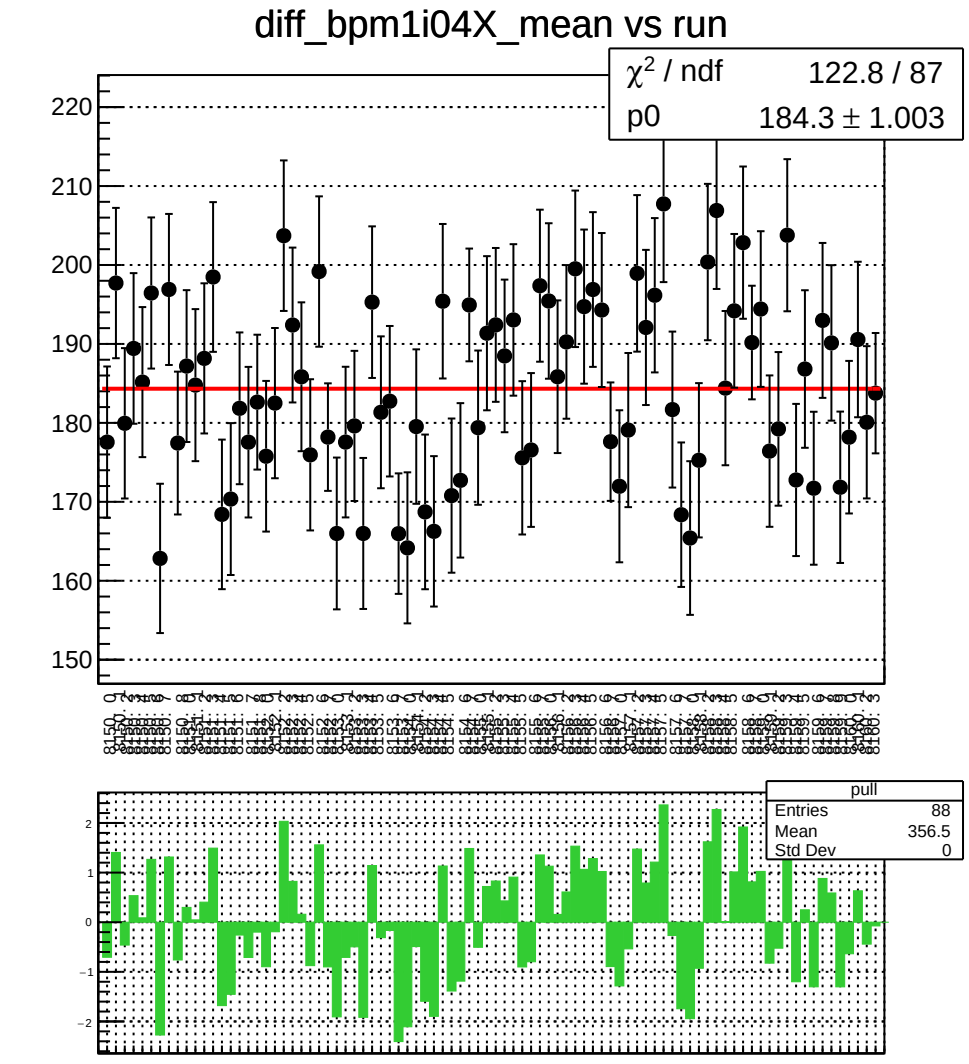

pull1D
Entries 88
Mean −0.01257
Std Dev 1.046

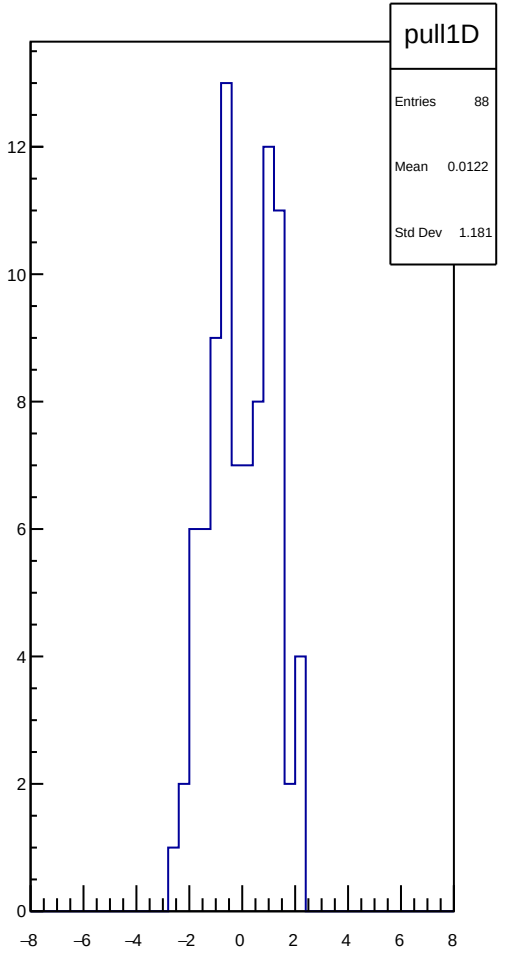

diff_bpm1i02X_rms vs run
χ² / ndf 228.2 / 87
p0 627.8 ± 0.4849
650
640
630
620
610
600

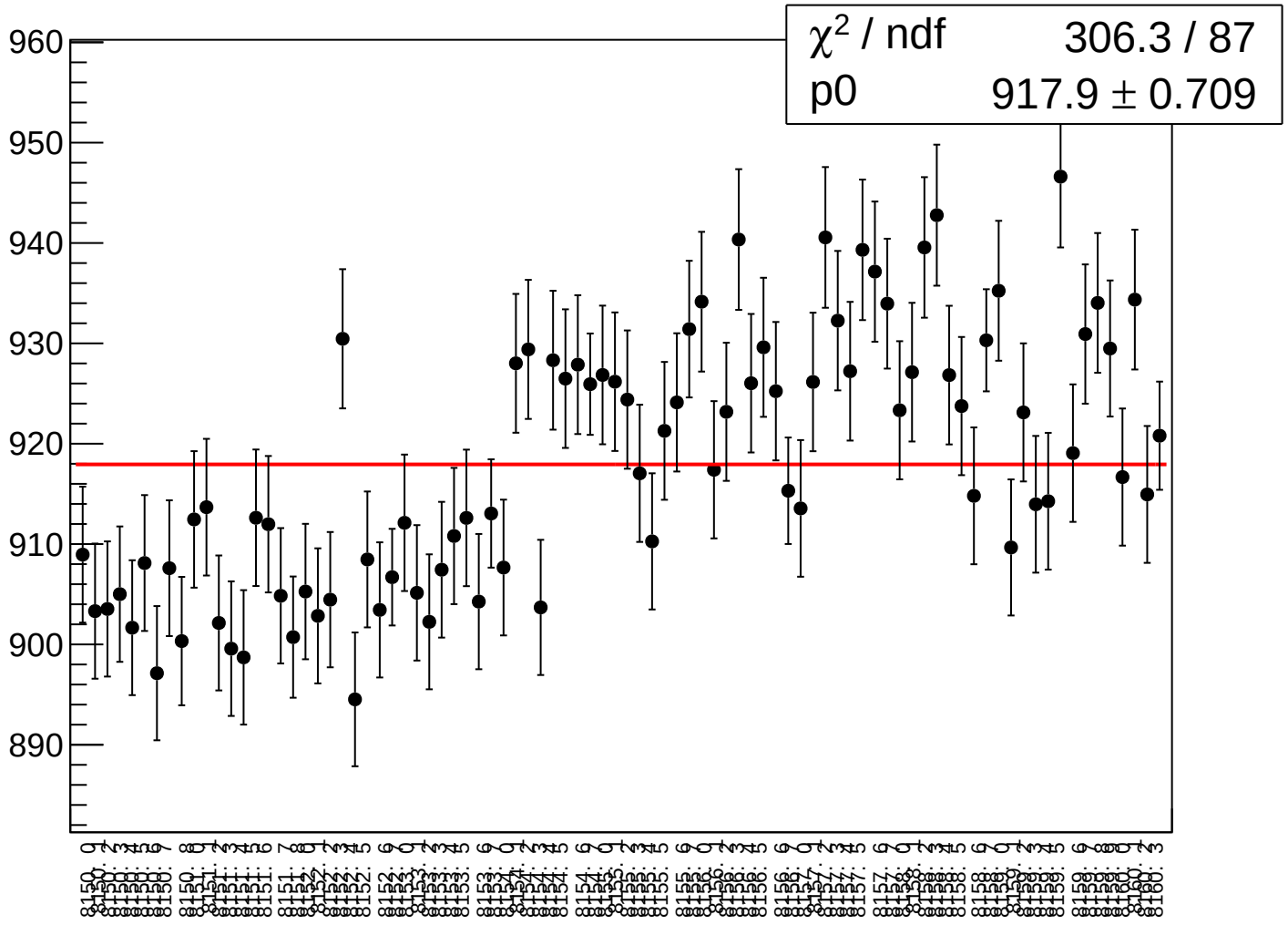

diff_bpm1i02Y_mean vs run
χ² / ndf 95.18 / 87
p0 62.14 ± 0.5403
pull
Entries 88
Mean −238
Std Dev 0

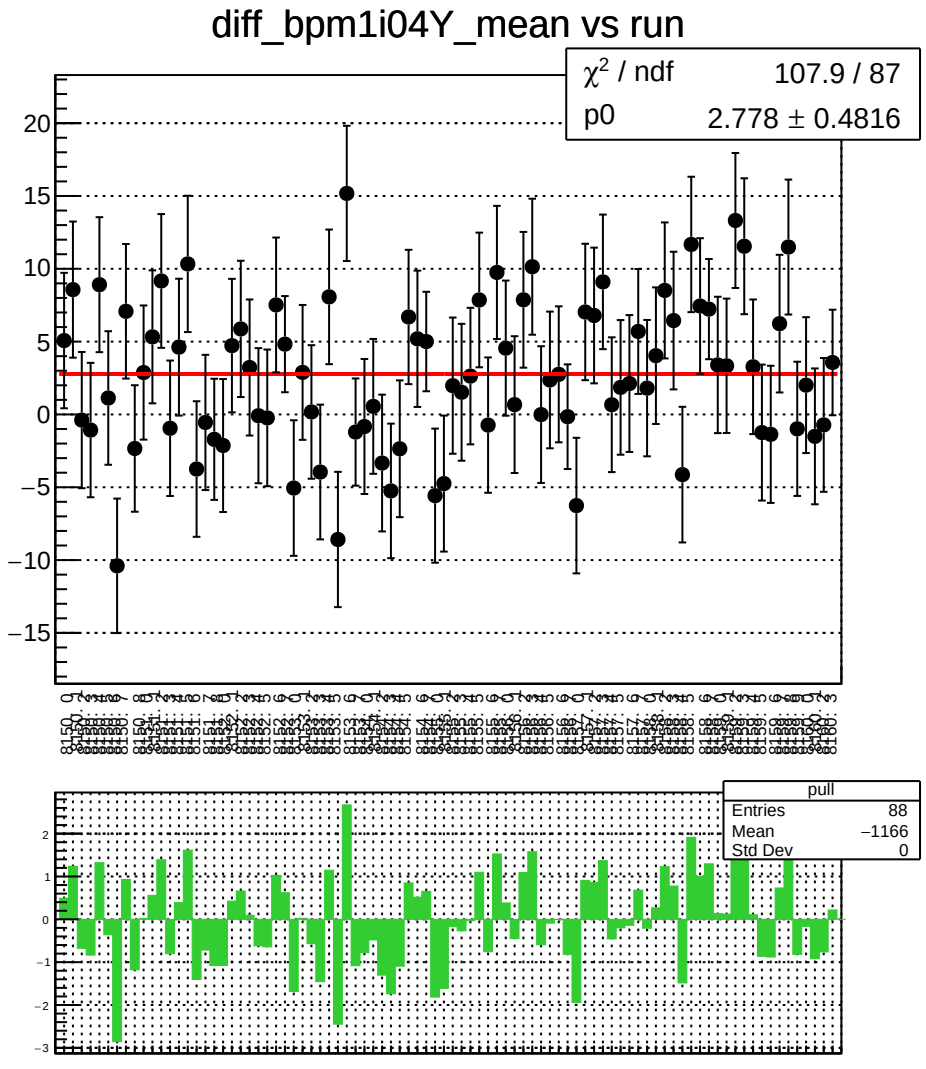

pull1D
Entries 88
Mean 0.01725
Std Dev 1.04

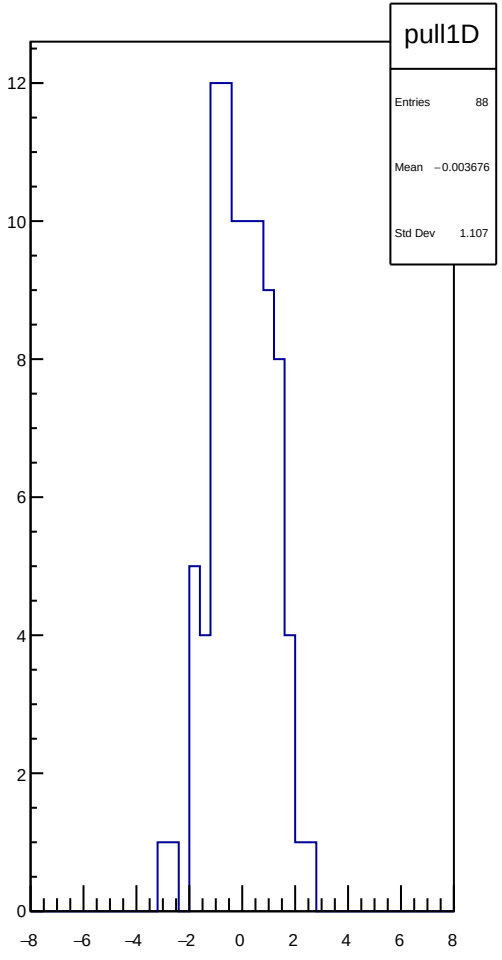

diff_bpm1i02Y_rms vs run
χ² / ndf 139.2 / 87
p0 494.7 ± 0.3821
510
505
500
495
490
485
480

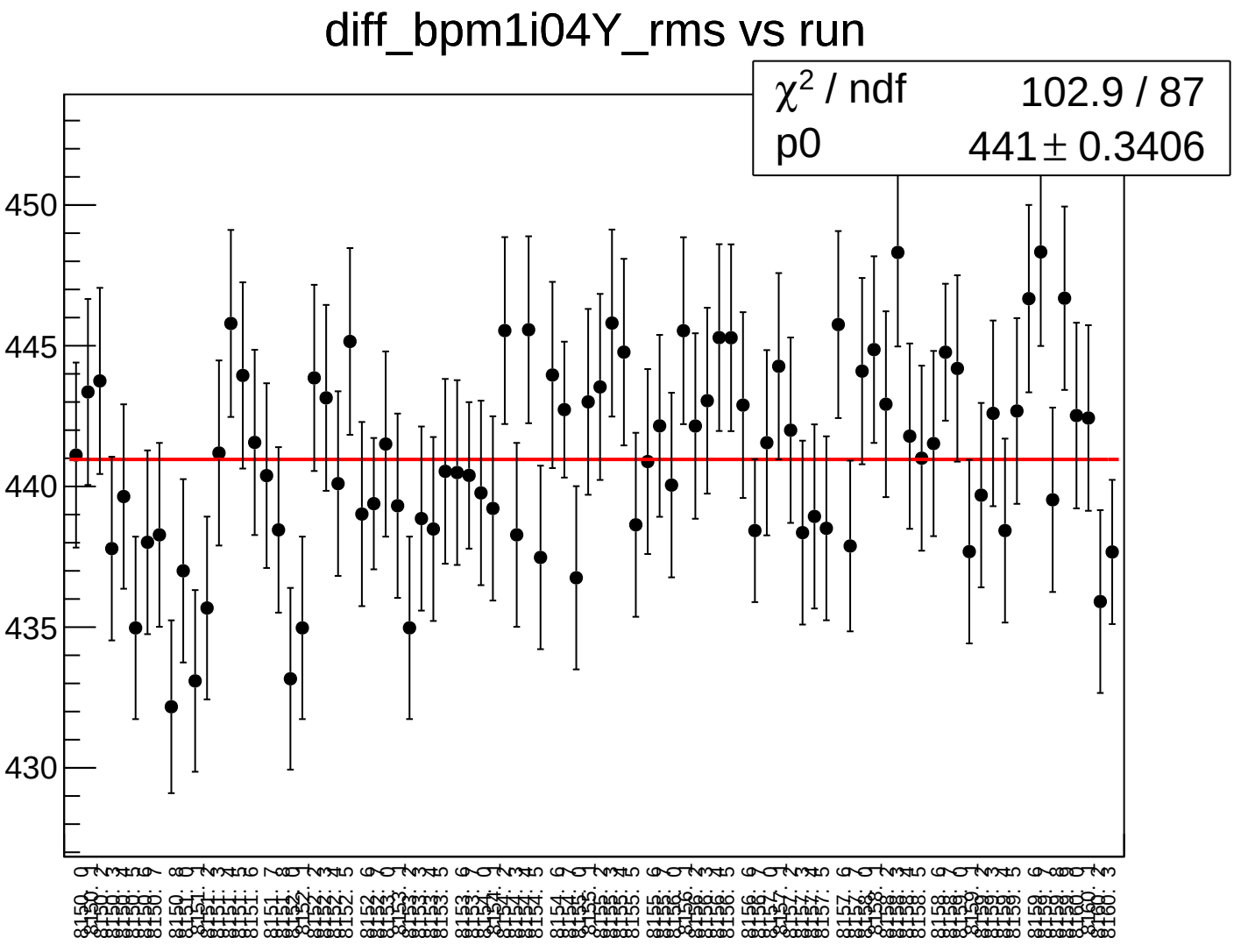

diff_bpm1i04X_mean vs run
χ² / ndf 122.8 / 87
p0 184.3 ± 1.003
pull
Entries 88
Mean 356.5
Std Dev 0

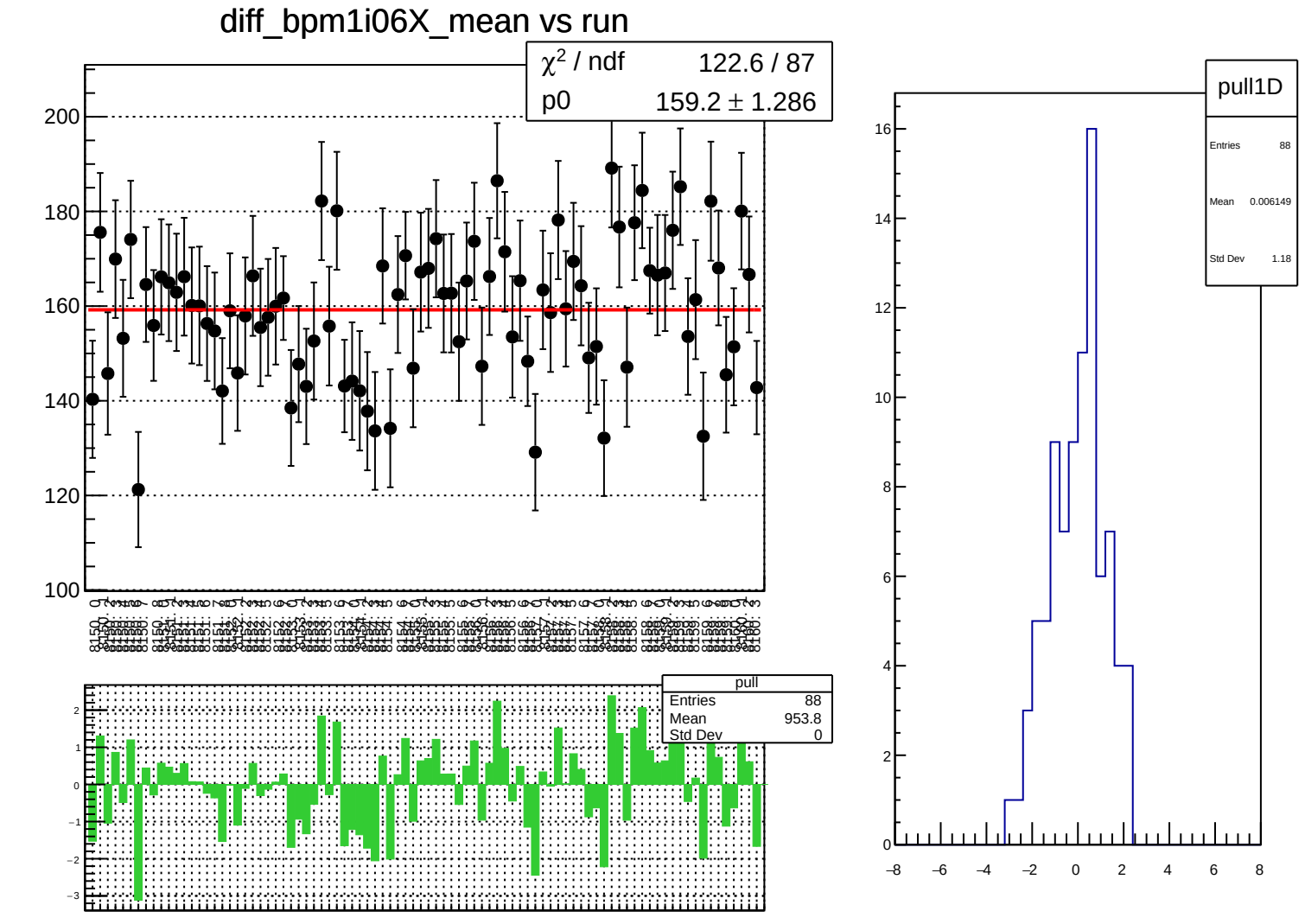

pull1D
Entries 88
Mean 0.0122
Std Dev 1.181

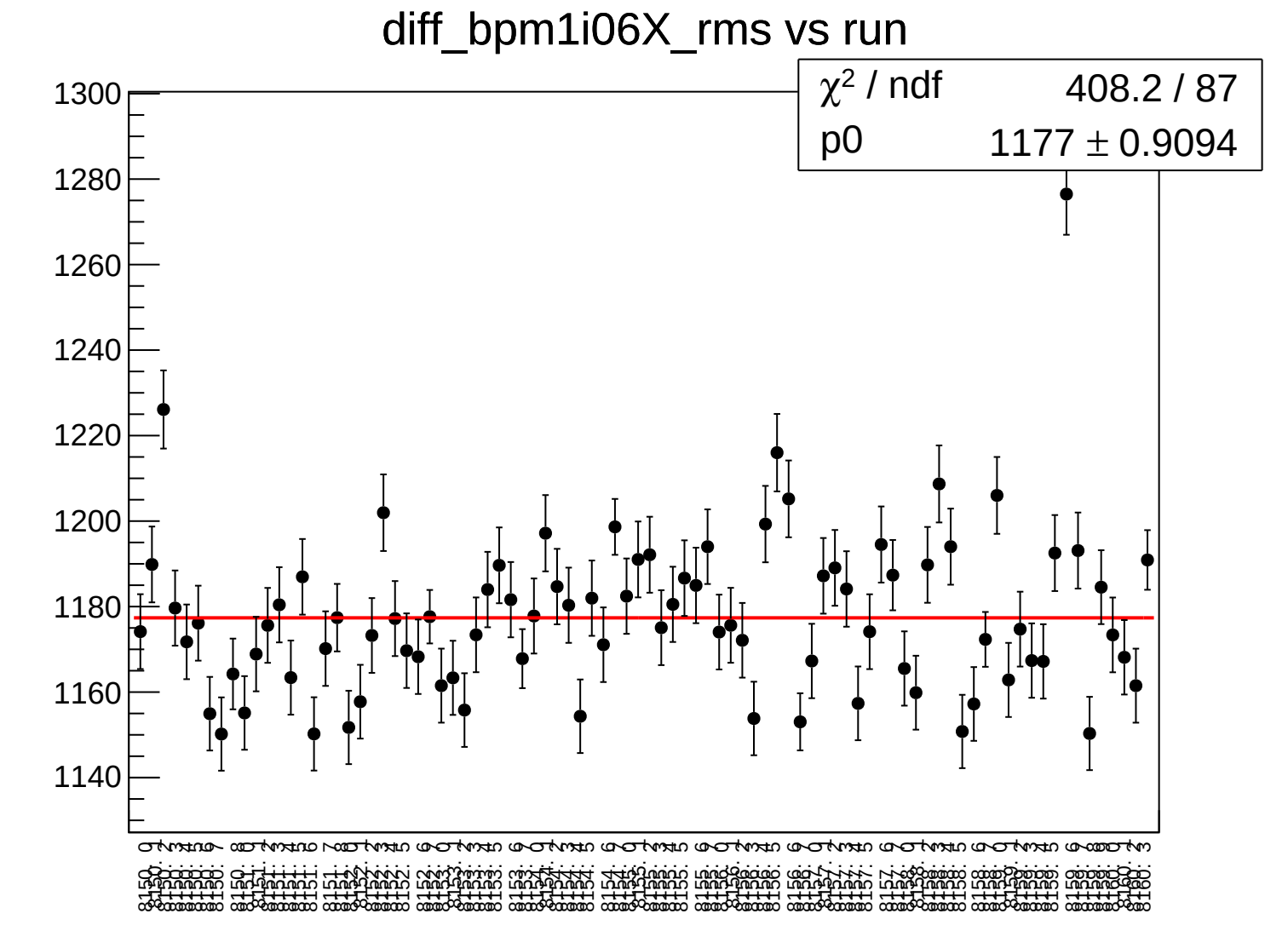

diff_bpm1i04X_rms vs run
χ² / ndf 306.3 / 87
p0 917.9 ± 0.709
960
950
940
930
920
910
900
890

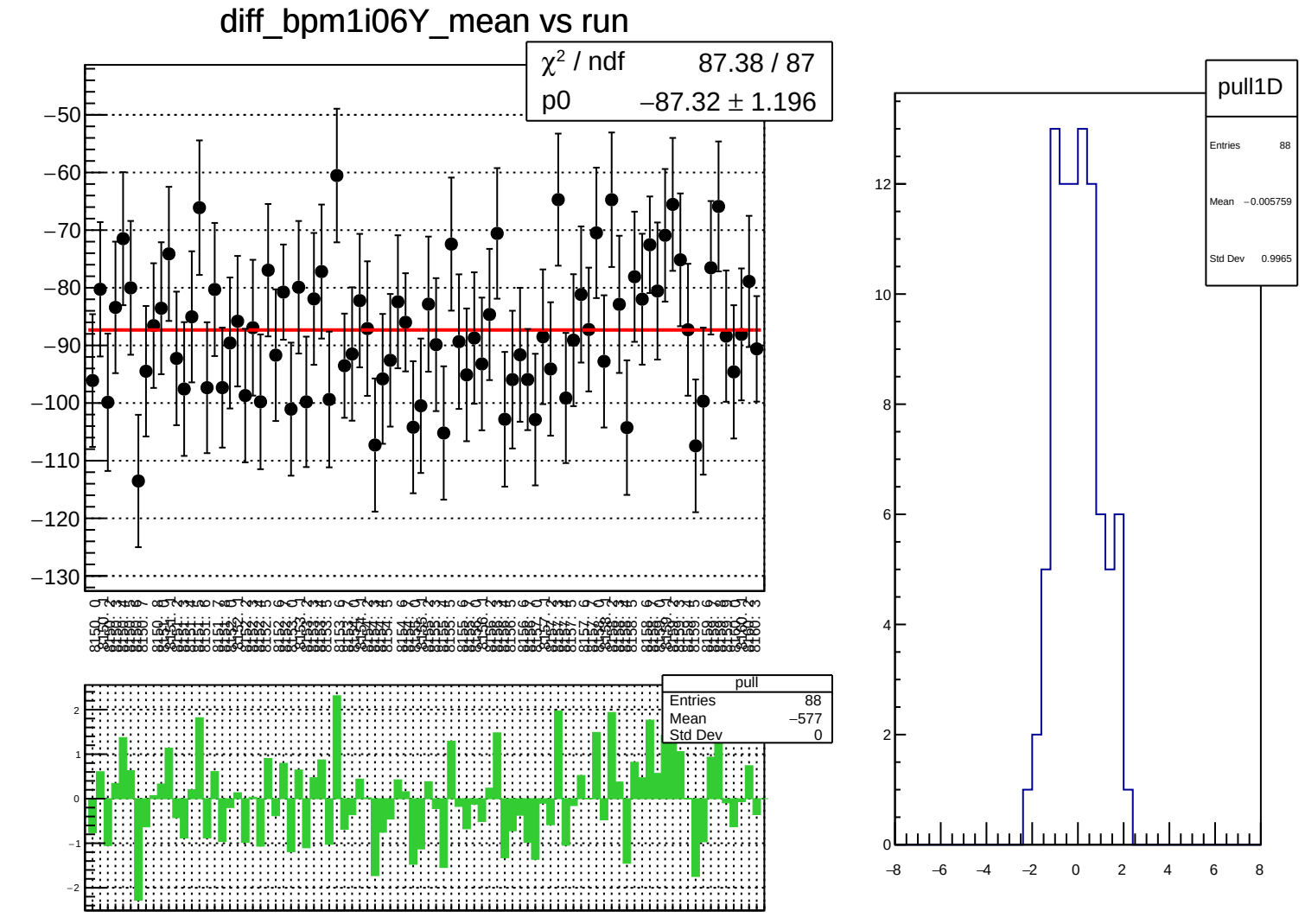

diff_bpm1i04Y_mean vs run
χ^2 / ndf 107.9 / 87
p0 2.778 ± 0.4816
pull
Entries 88
Mean −1166
Std Dev 0

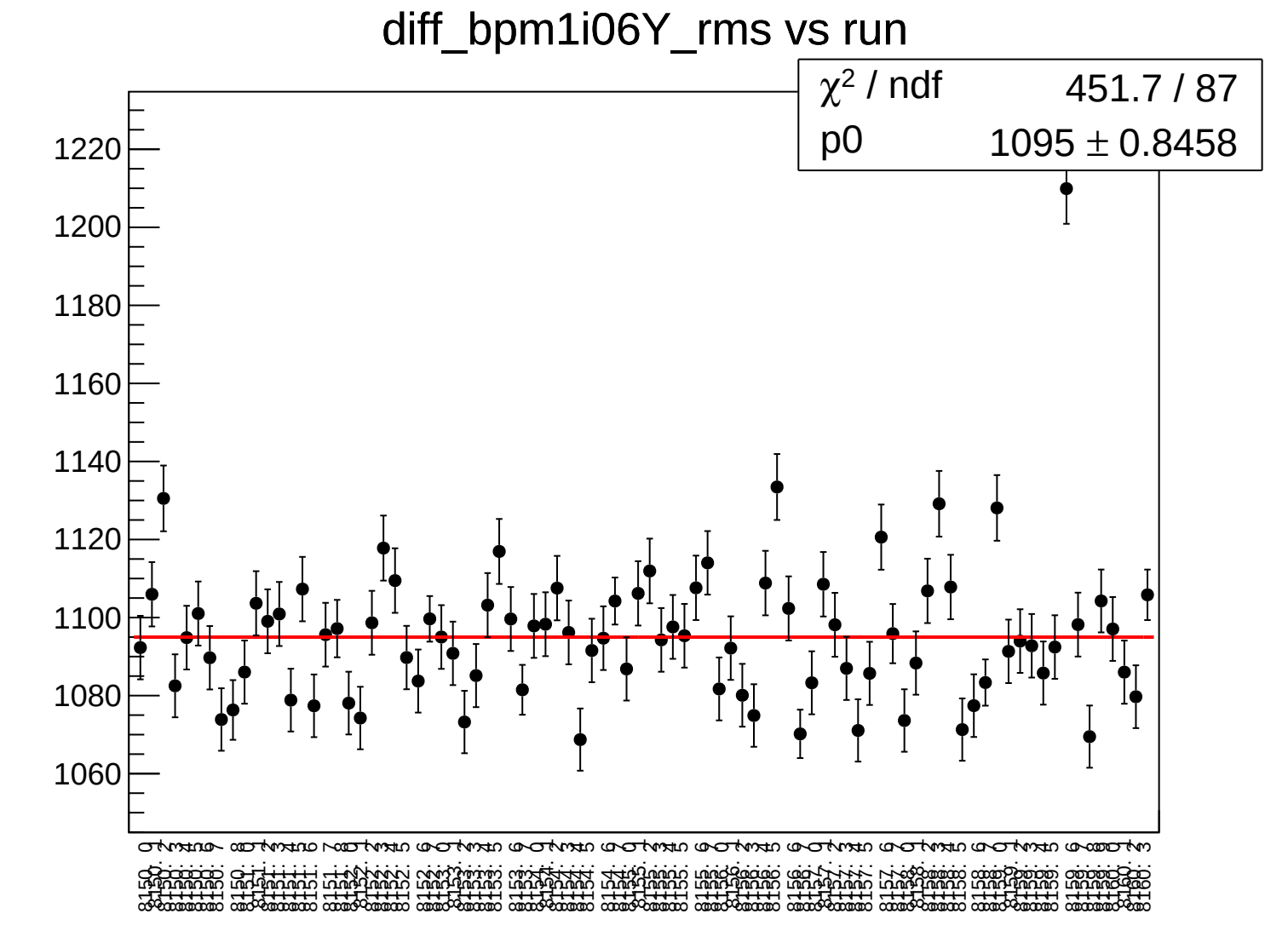

pull1D
Entries 88
Mean −0.003676
Std Dev 1.107

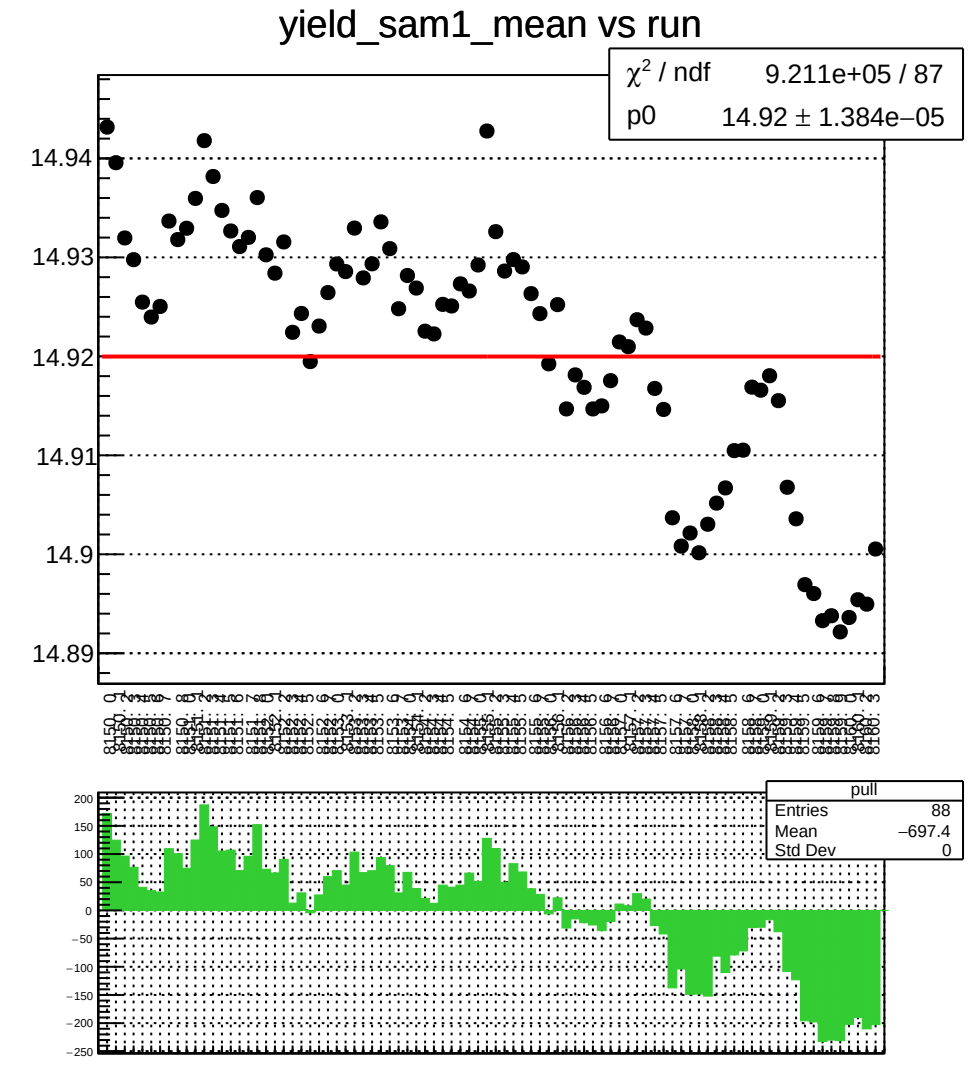

diff_bpm1i04Y_rms vs run
χ^2 / ndf 102.9 / 87
p0 441 ± 0.3406
450
445
440
435
430

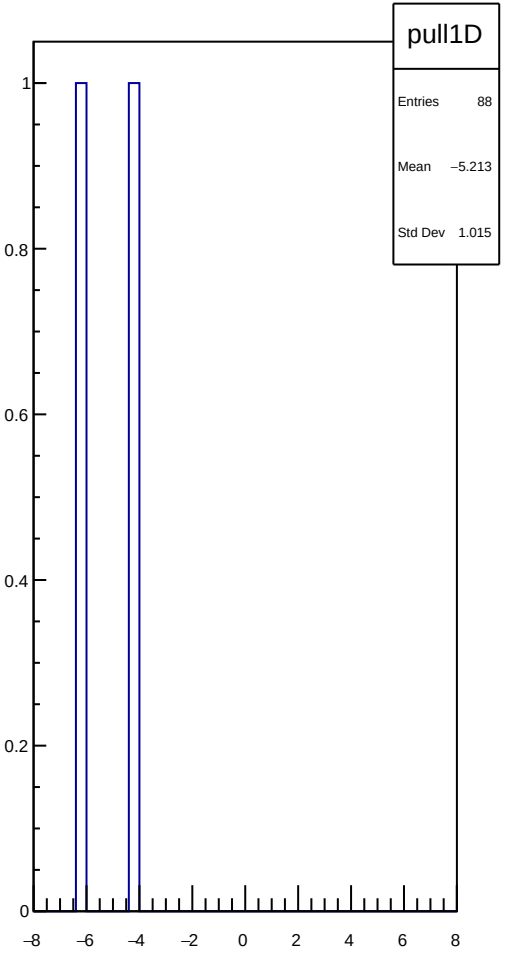

diff_bpm1i06X_mean vs run
χ^2 / ndf 122.6 / 87
p0 159.2 ± 1.286
200
180
160
140
120
100
pull
Entries 88
Mean 953.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.006149
Std Dev 1.18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

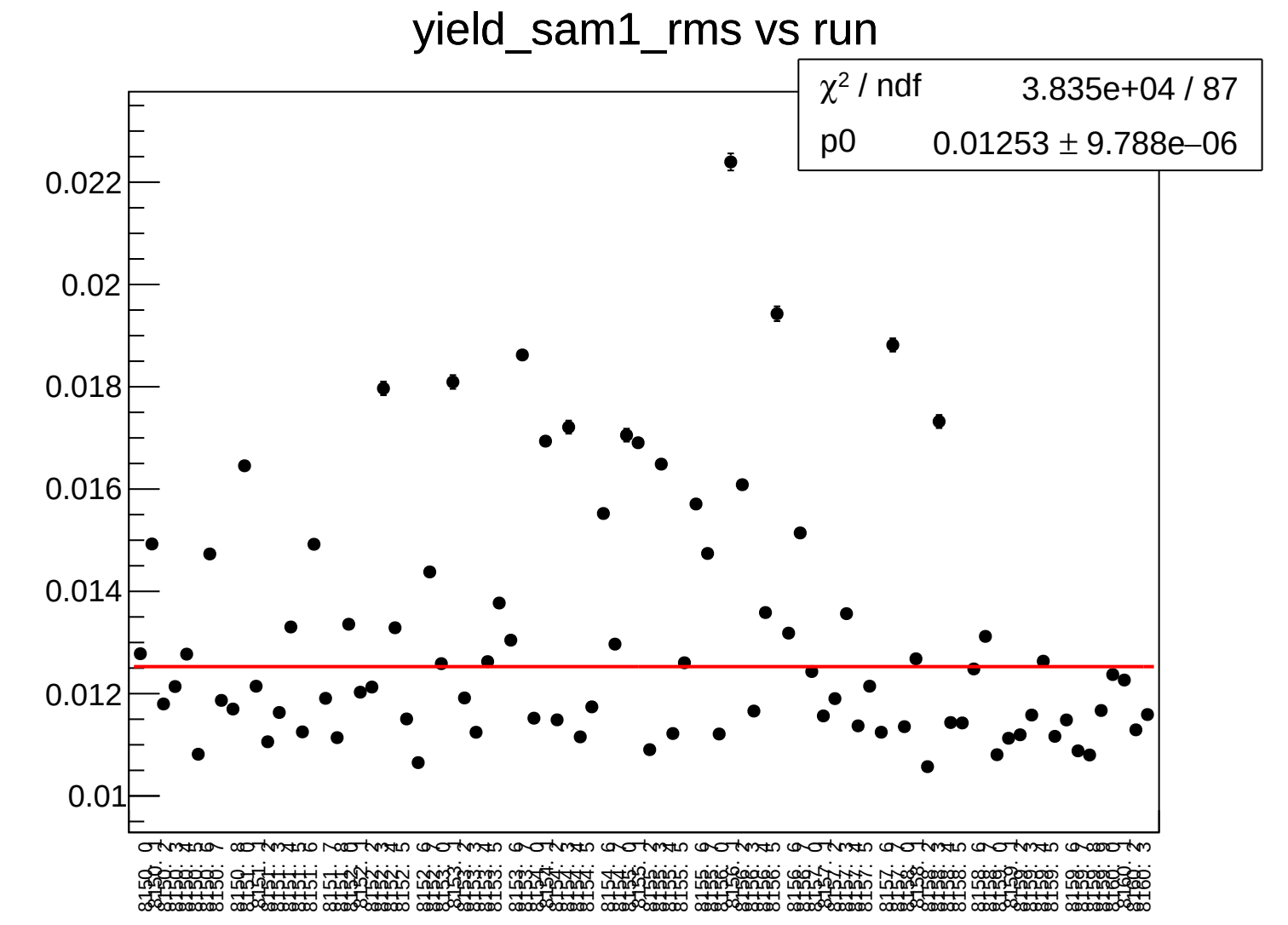

diff_bpm1i06X_rms vs run
χ² / ndf 408.2 / 87
p0 1177 ± 0.9094
1300
1280
1260
1240
1220
1200
1180
1160
1140

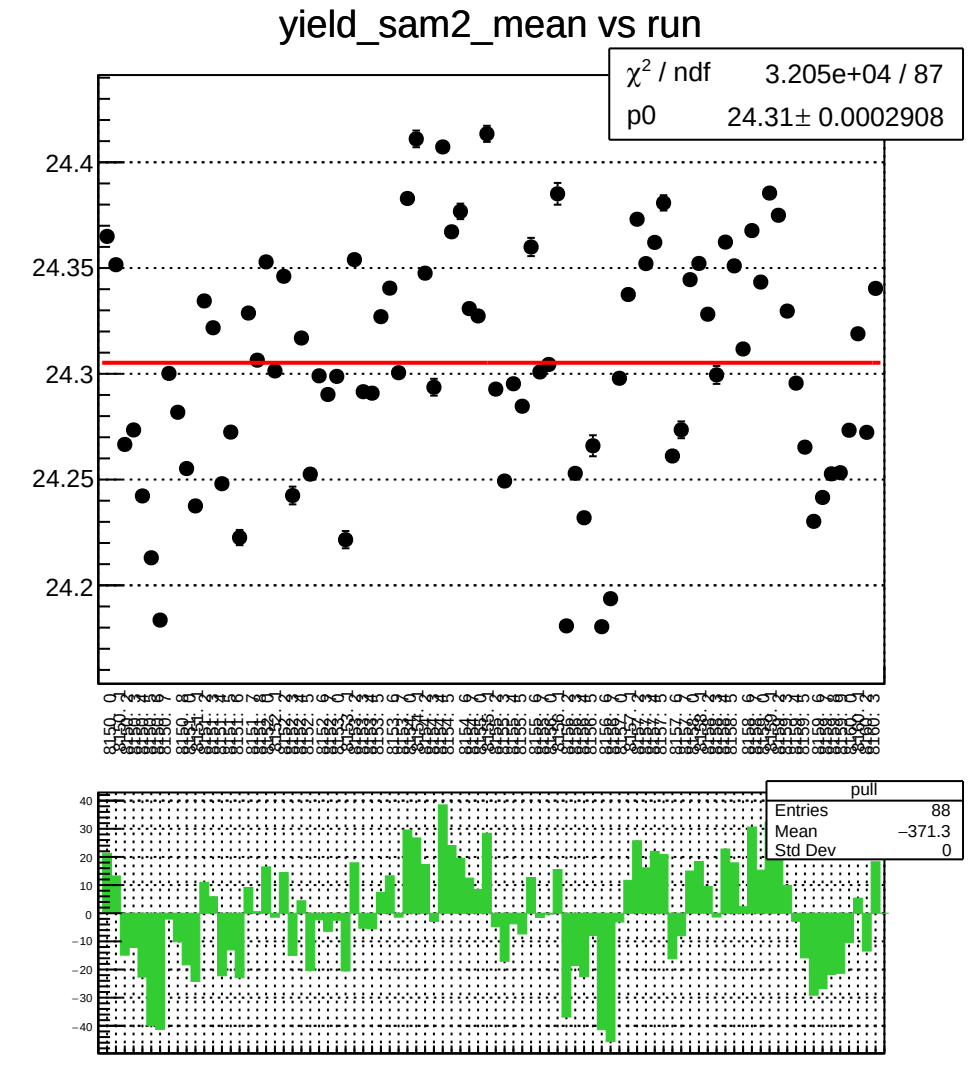

diff_bpm1i06Y_mean vs run
χ² / ndf 87.38 / 87
p0 −87.32 ± 1.196
pull
Entries 88
Mean −577
Std Dev 0
pull1D
Entries 88
Mean −0.005759
Std Dev 0.9965

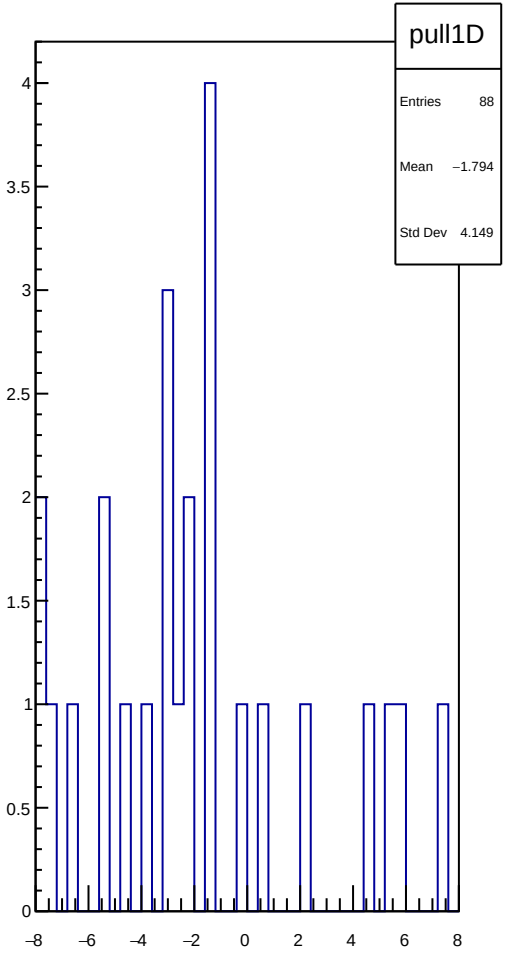

diff_bpm1i06Y_rms vs run
χ² / ndf 451.7 / 87
p0 1095 ± 0.8458
1220
1200
1180
1160
1140
1120
1100
1080
1060

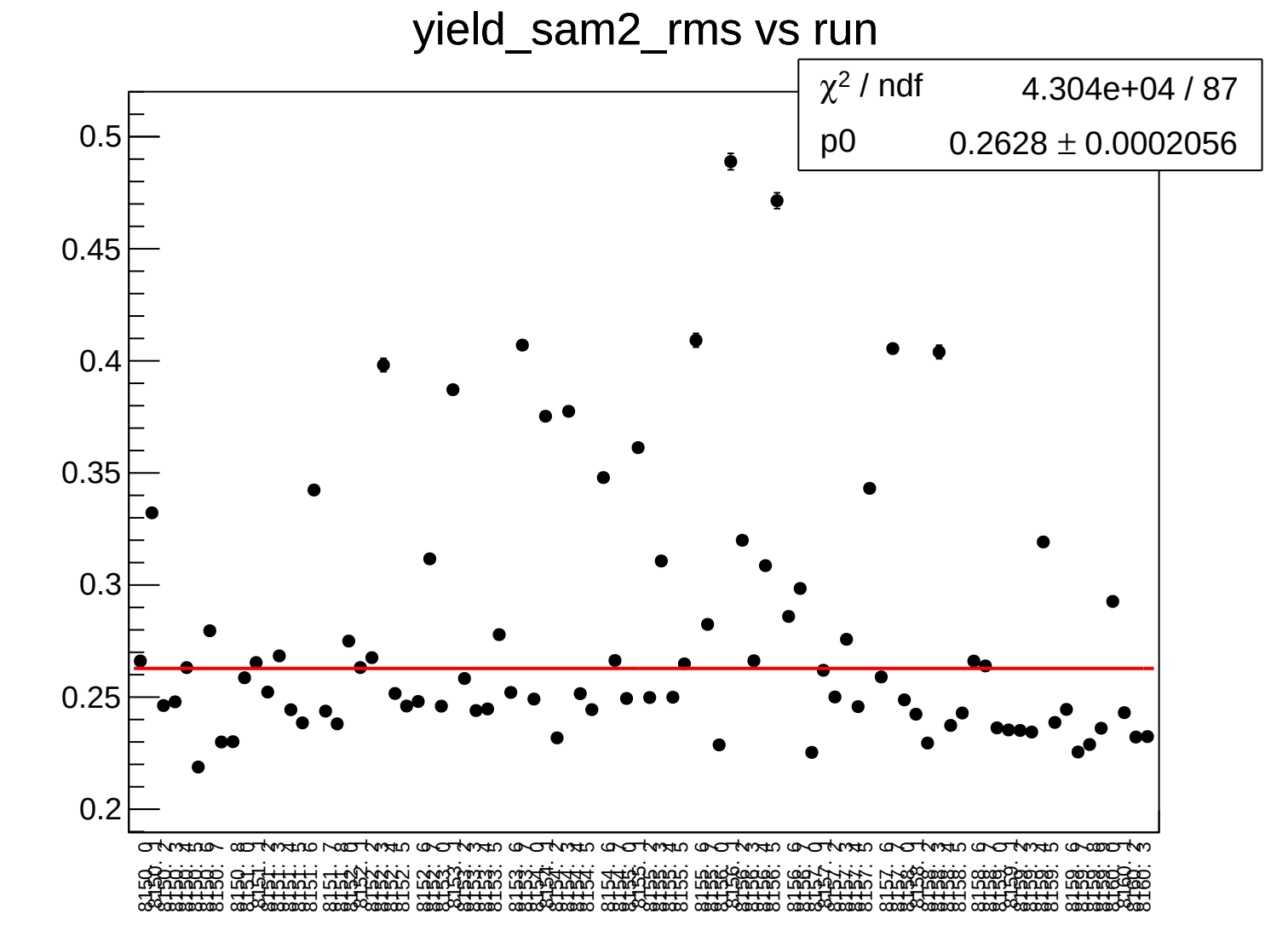

yield_sam1_mean vs run
χ^2 / ndf 9.211e+05 / 87
p0 14.92 ± 1.384e−05
14.94
14.93
14.92
14.91
14.9
14.89
pull
Entries 88
Mean −697.4
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

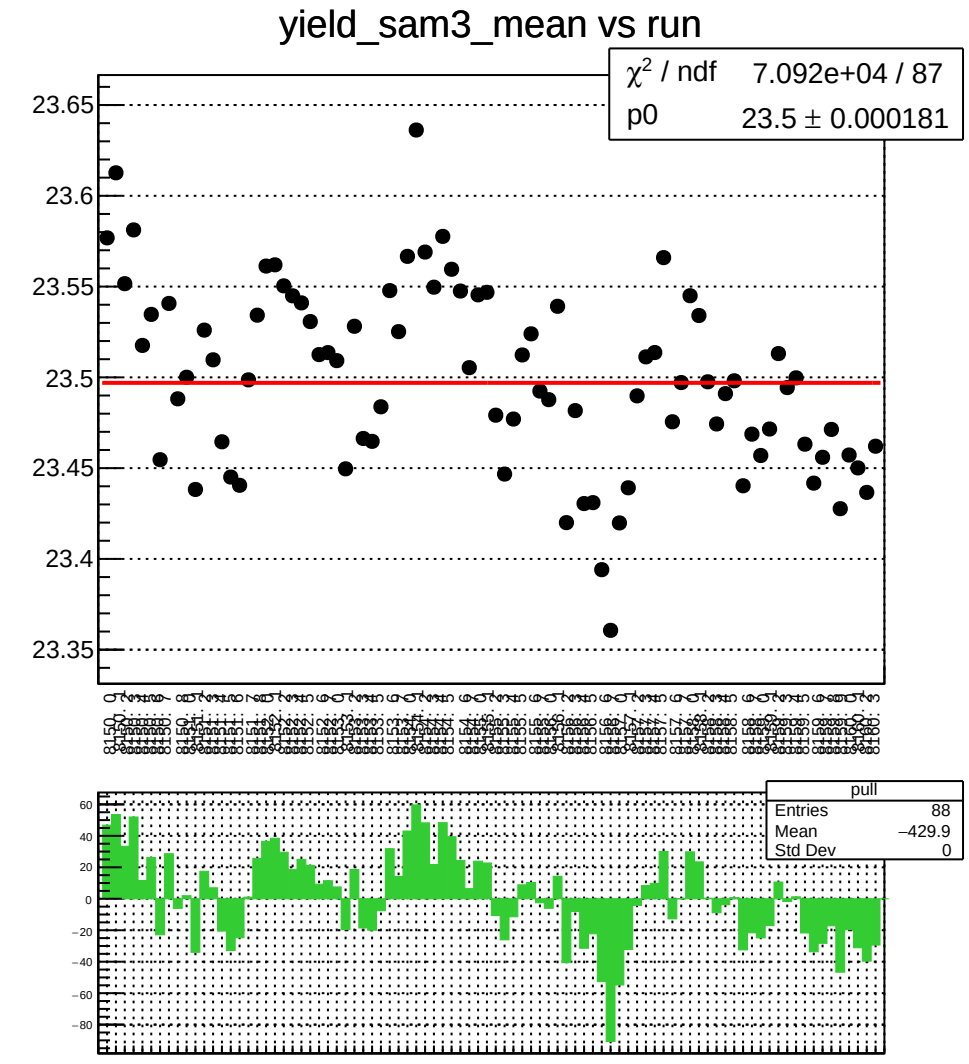

pull1D
Entries 88
Mean −5.213
Std Dev 1.015
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

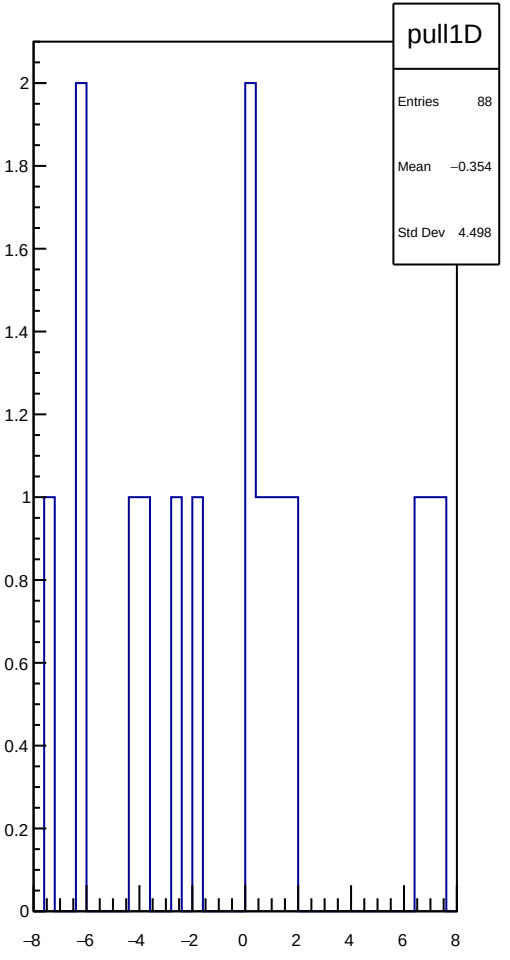

yield_sam1_rms vs run
χ² / ndf 3.835e+04 / 87
p0 0.01253 ± 9.788e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

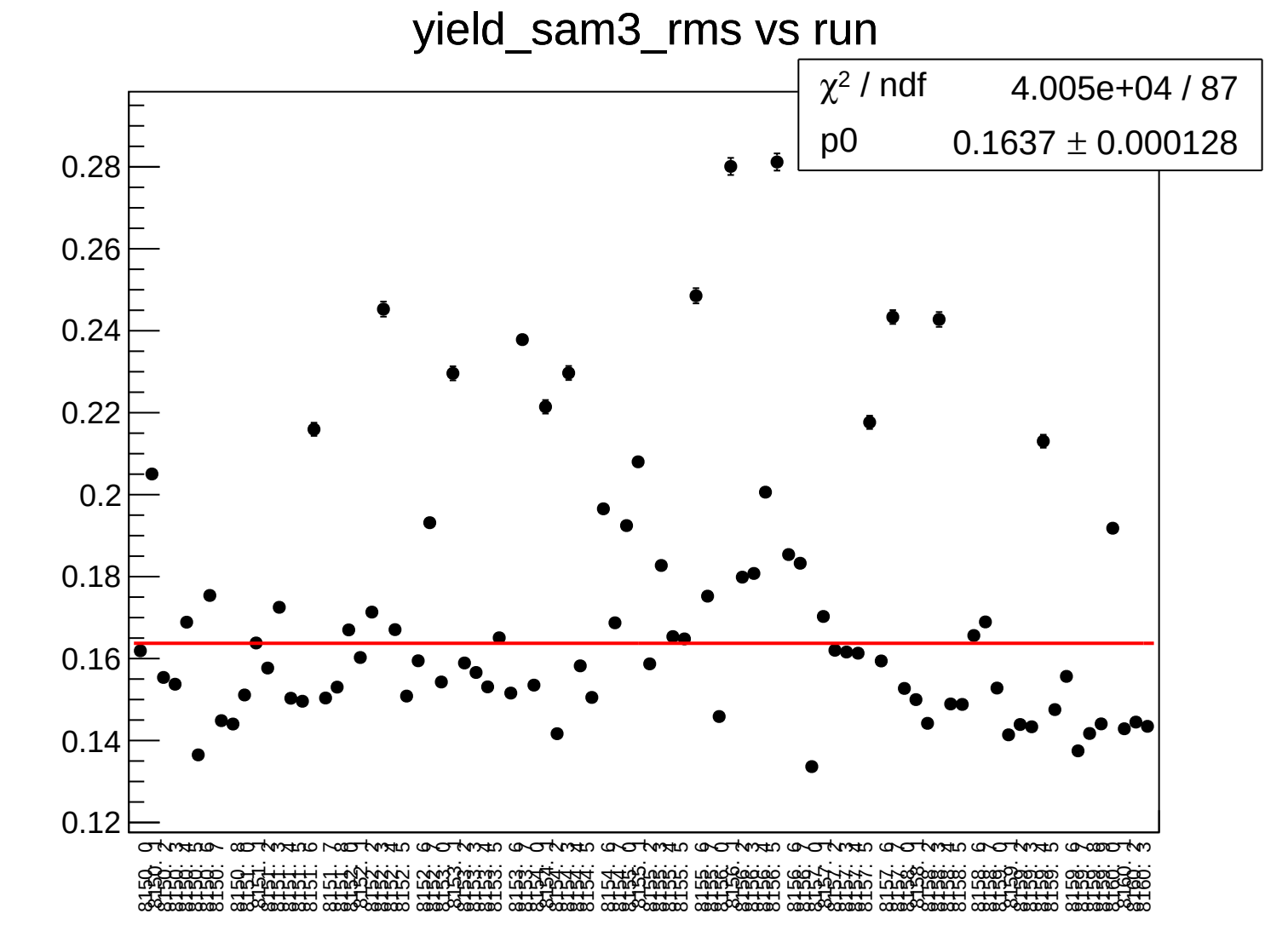

yield_sam2_mean vs run
χ² / ndf 3.205e+04 / 87
p0 24.31± 0.0002908
24.4
24.35
24.3
24.25
24.2
pull
Entries 88
Mean −371.3
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40

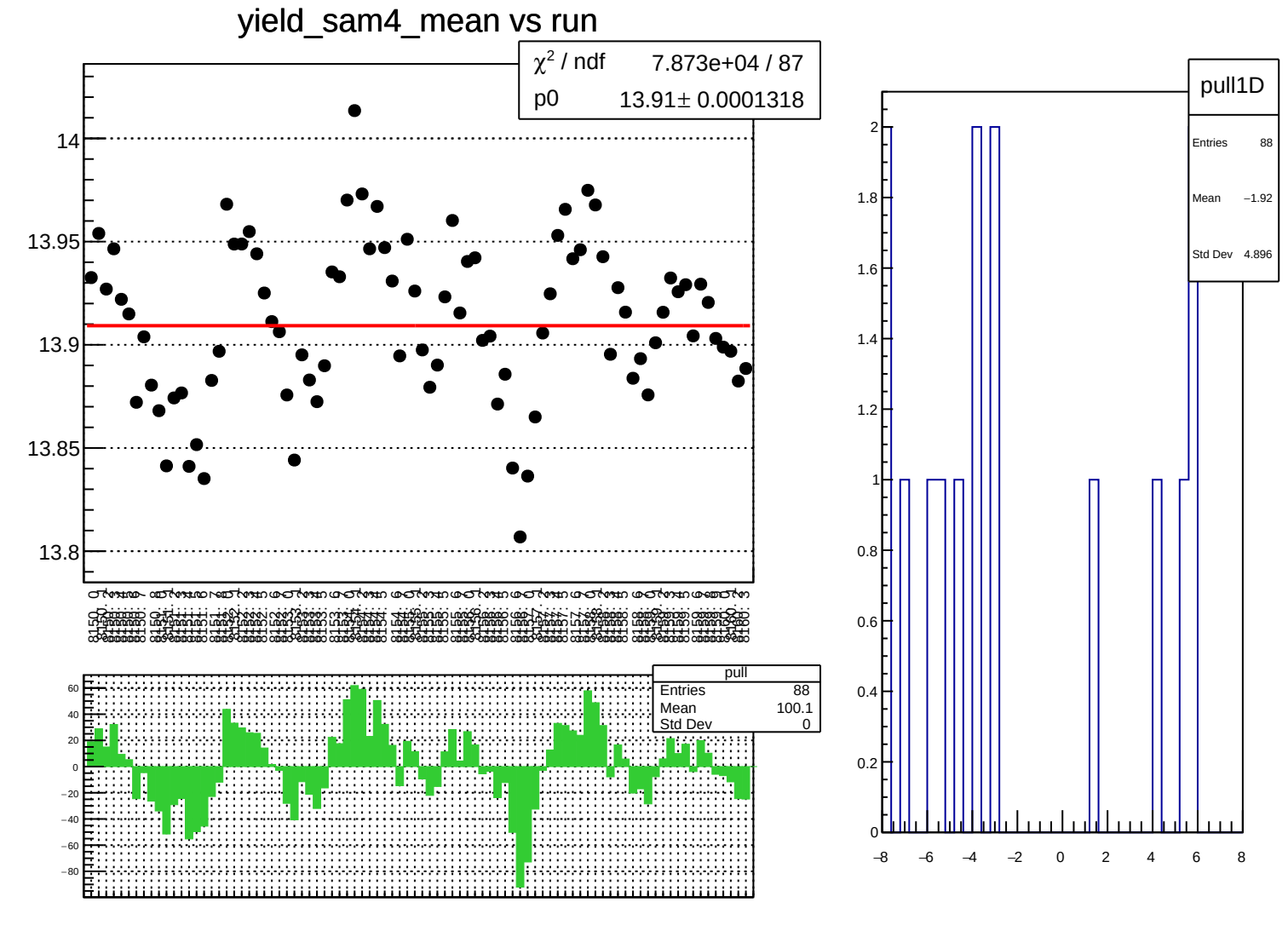

pull1D
Entries 88
Mean −1.794
Std Dev 4.149
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

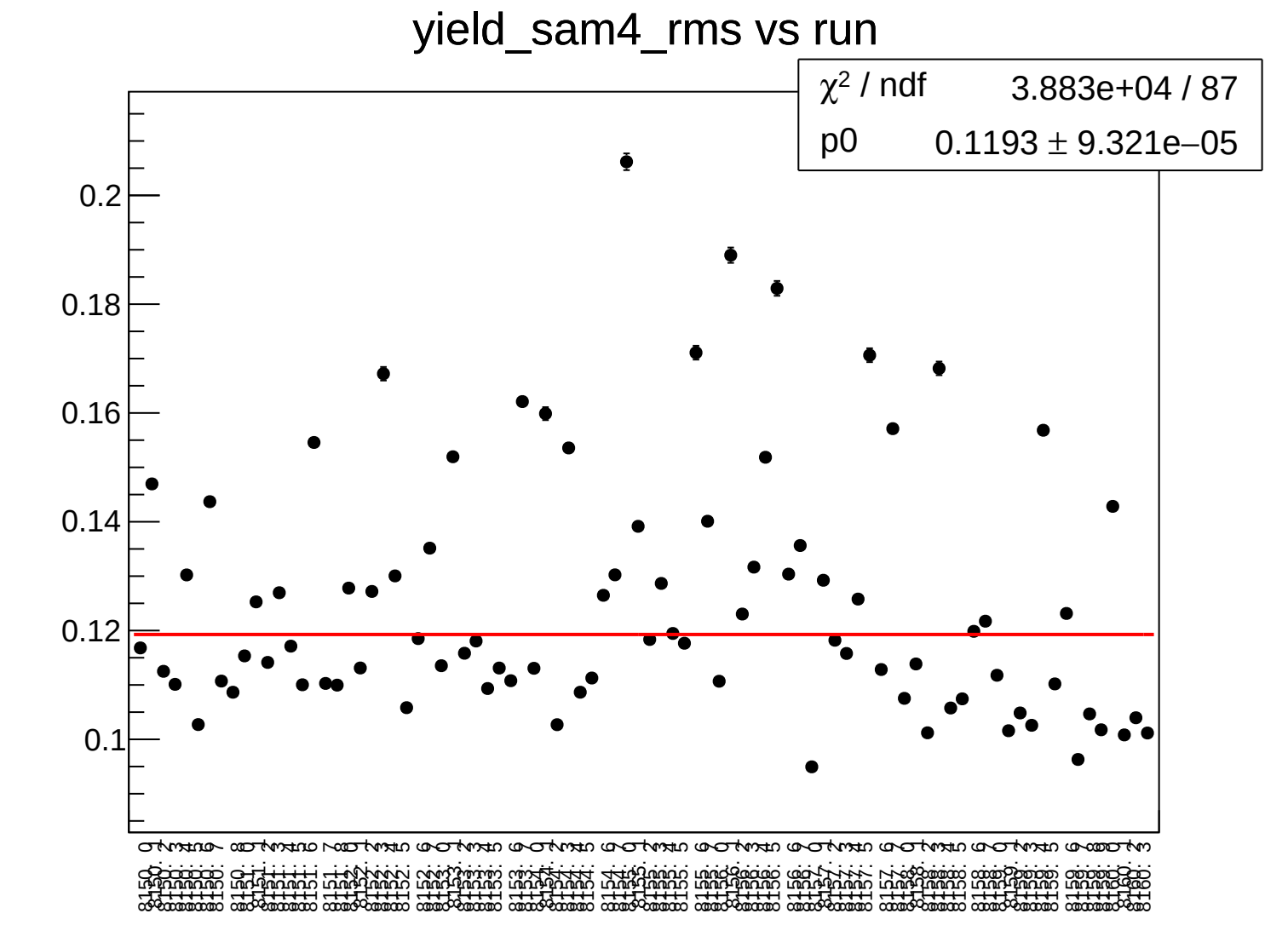

yield_sam2_rms vs run
χ² / ndf 4.304e+04 / 87
p0 0.2628 ± 0.0002056
0.5
0.45
0.4
0.35
0.3
0.25
0.2

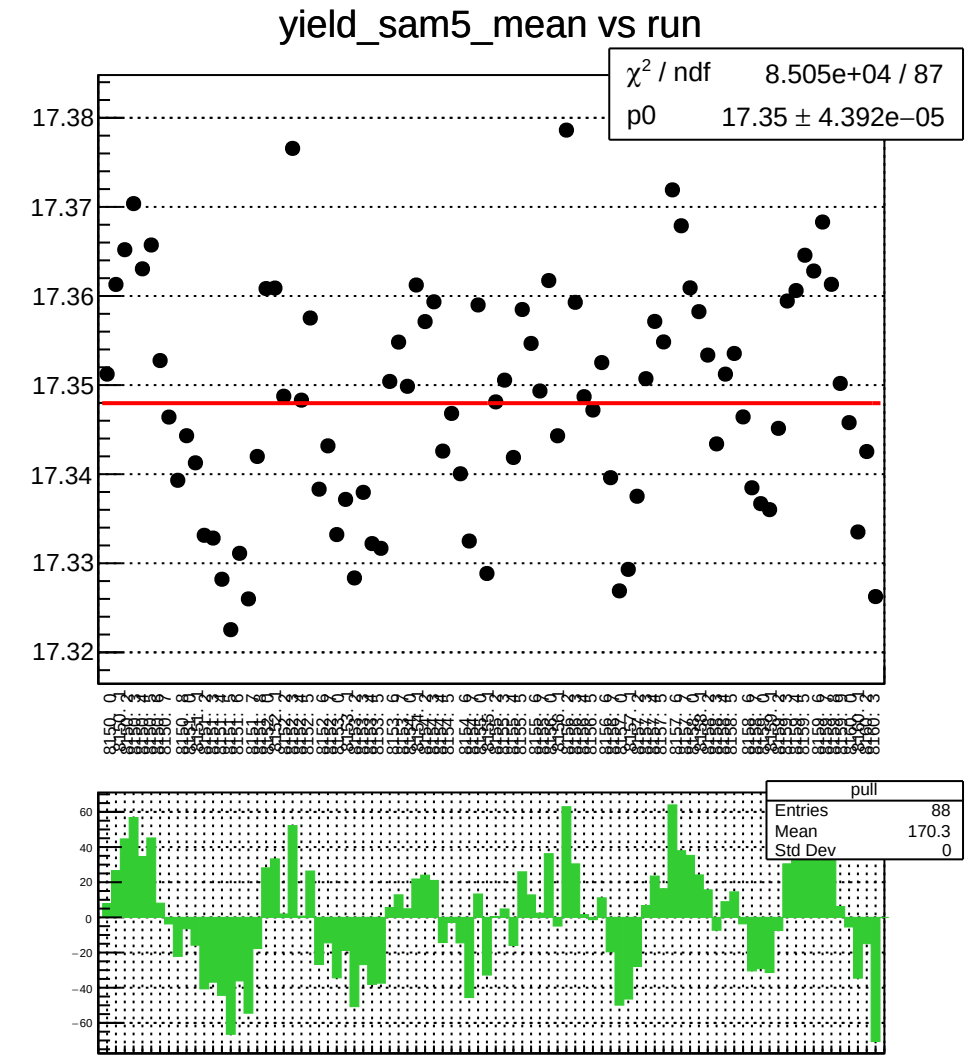

yield_sam3_mean vs run
χ² / ndf 7.092e+04 / 87
p0 23.5 ± 0.000181
23.65
23.6
23.55
23.5
23.45
23.4
23.35
pull
Entries 88
Mean −429.9
Std Dev 0
60
40
20
0
−20
−40
−60
−80

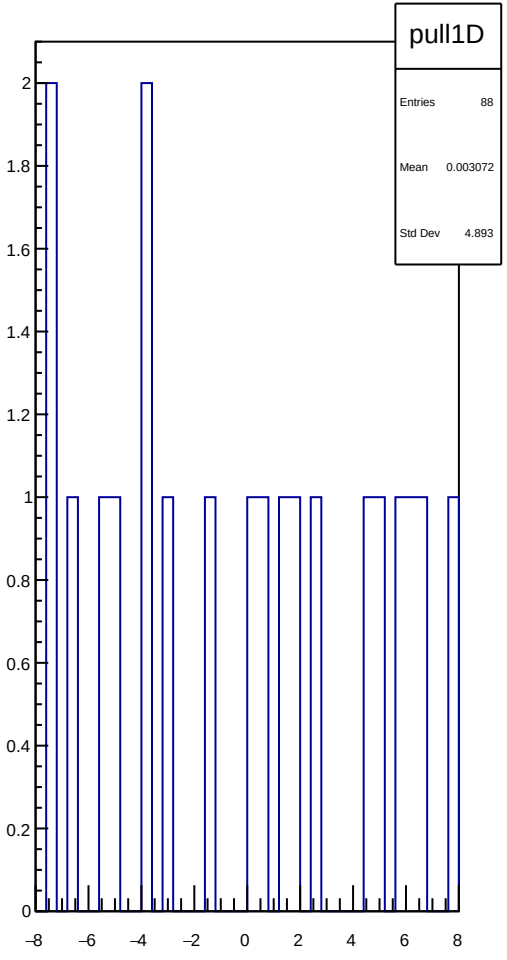

pull1D
Entries 88
Mean −0.354
Std Dev 4.498
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

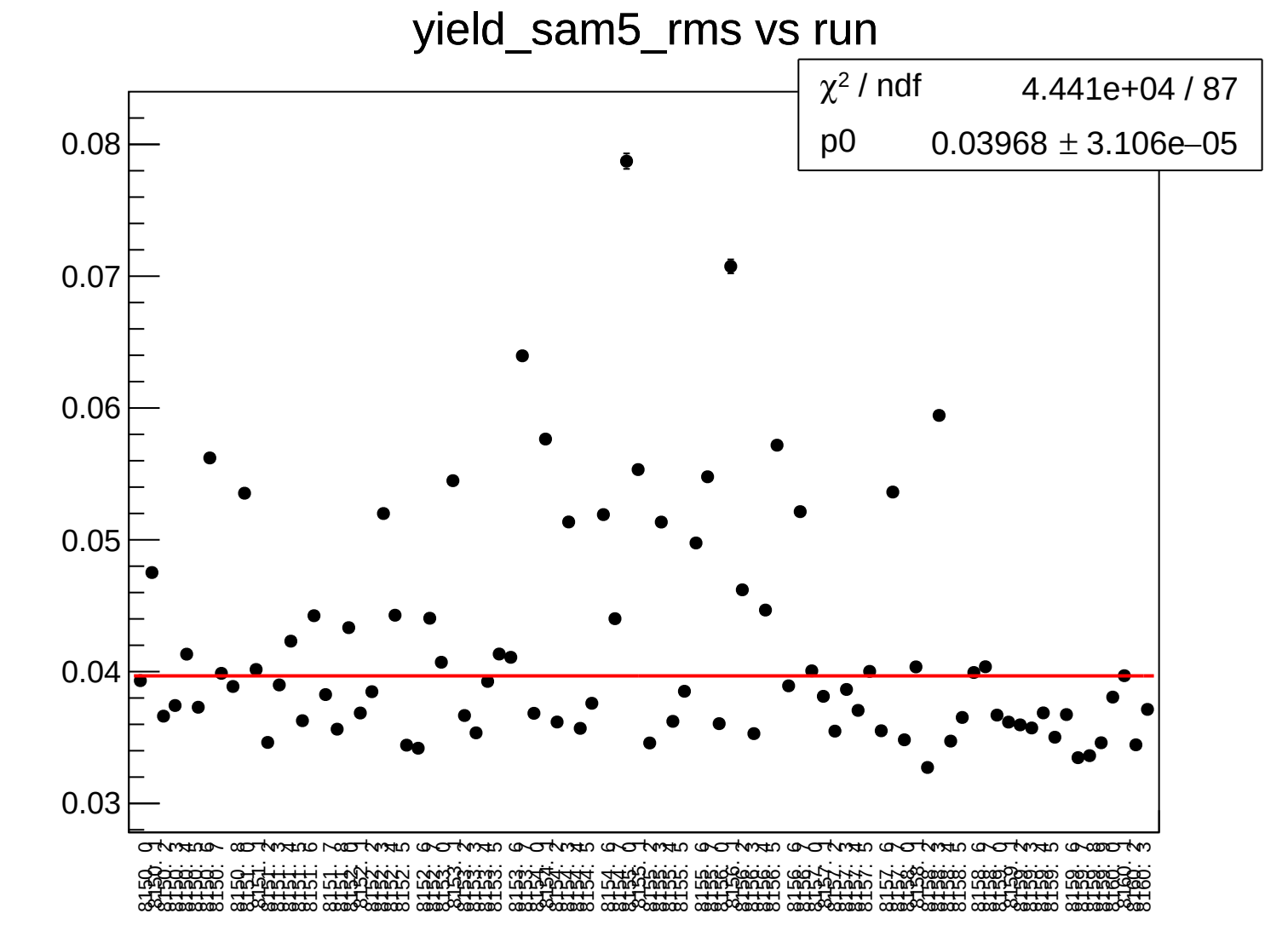

yield_sam3_rms vs run
χ² / ndf 4.005e+04 / 87
p0 0.1637 ± 0.000128
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12

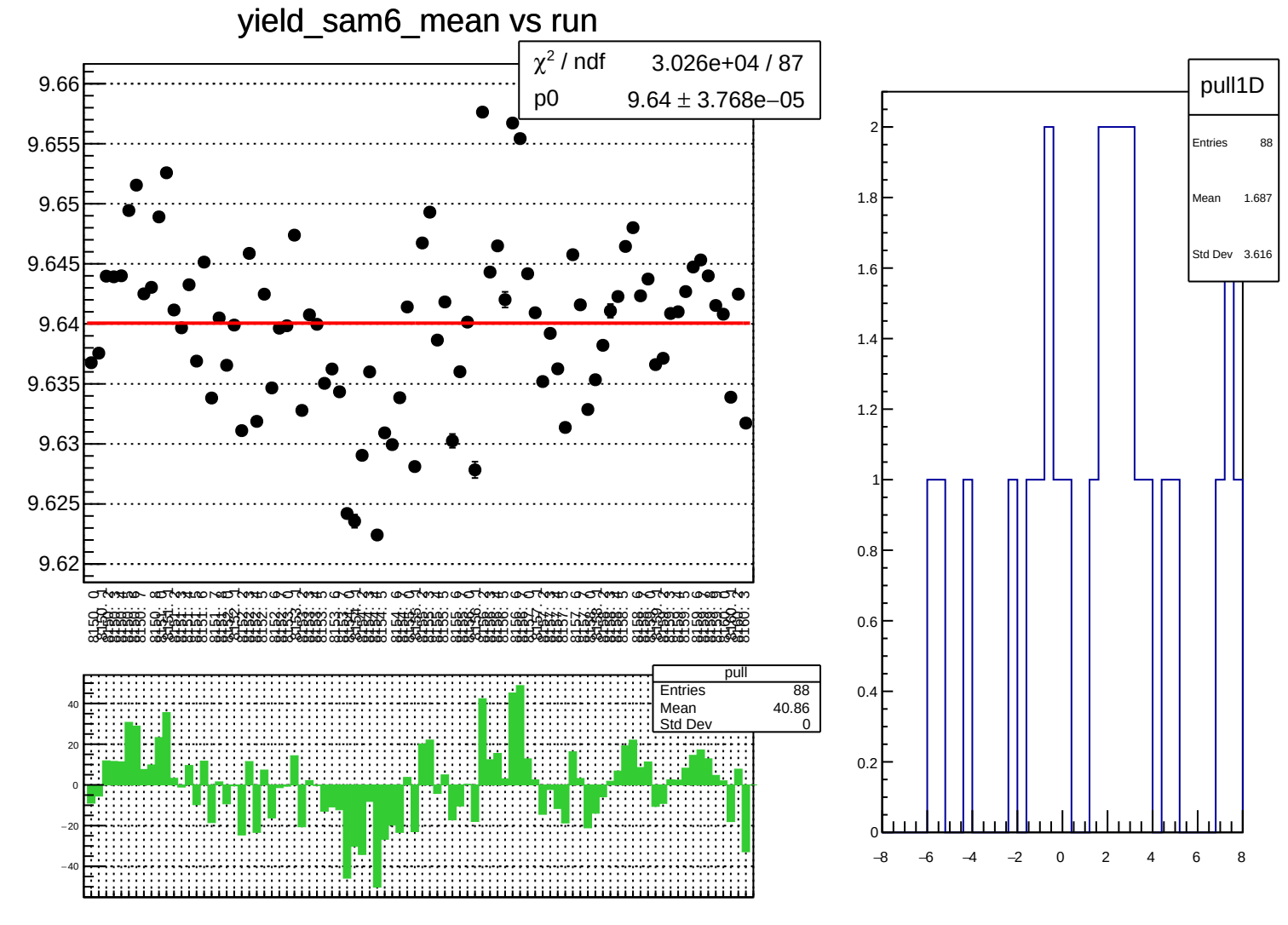

yield_sam4_mean vs run
χ² / ndf 7.873e+04 / 87
p0 13.91± 0.0001318
14
13.95
13.9
13.85
13.8
pull
Entries 88
Mean 100.1
Std Dev 0
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 88
Mean −1.92
Std Dev 4.896
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

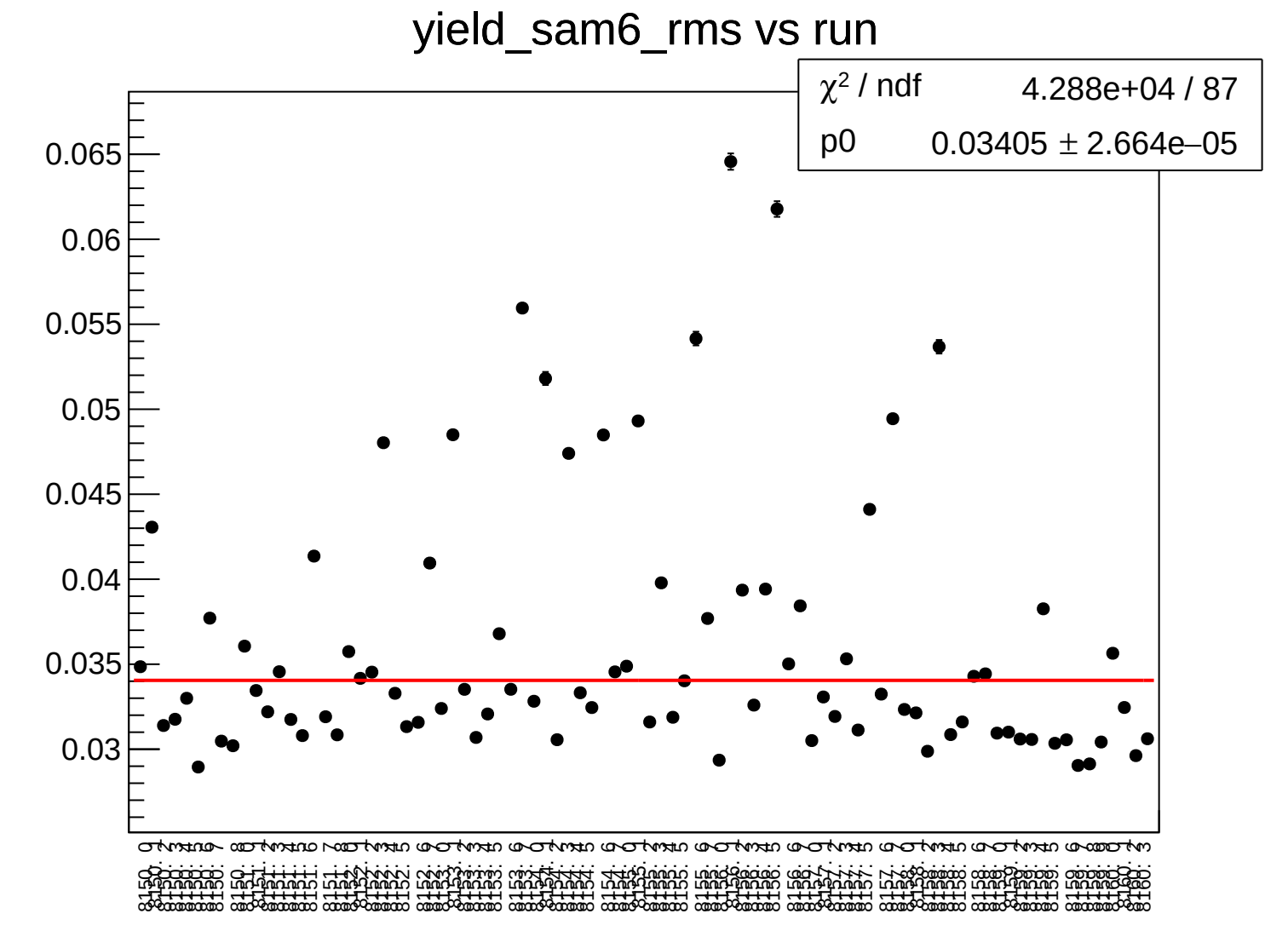

yield_sam4_rms vs run
χ² / ndf 3.883e+04 / 87
p0 0.1193 ± 9.321e−05
0.2
0.18
0.16
0.14
0.12
0.1

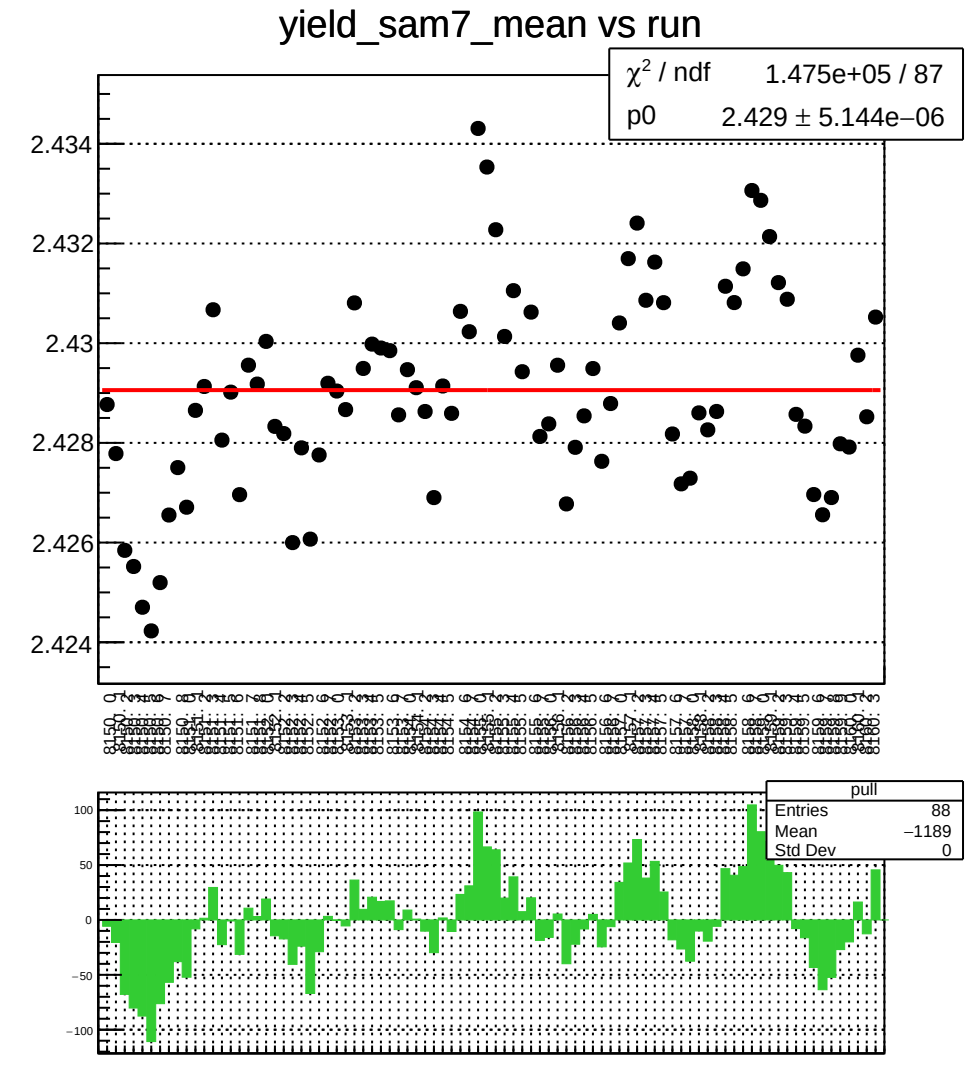

yield_sam5_mean vs run
χ² / ndf 8.505e+04 / 87
p0 17.35 ± 4.392e−05
17.38
17.37
17.36
17.35
17.34
17.33
17.32
pull
Entries 88
Mean 170.3
Std Dev 0
60
40
20
0
−20
−40
−60

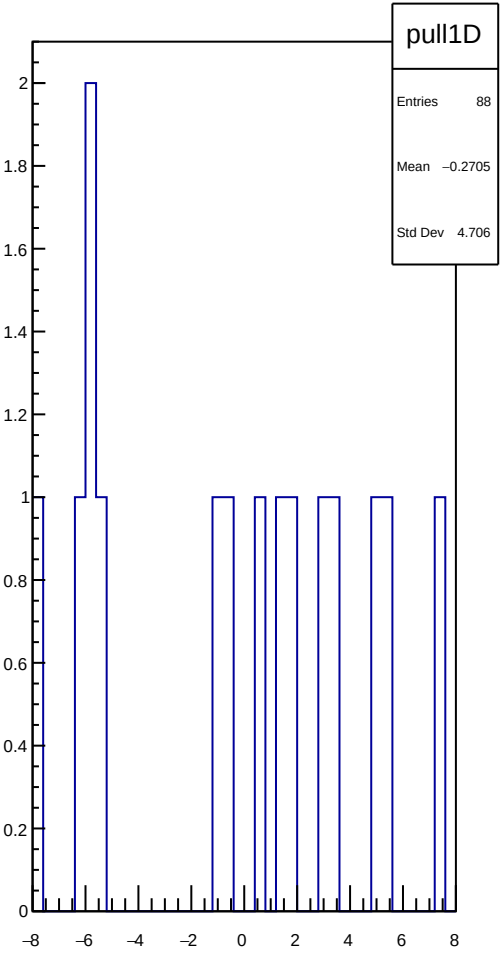

pull1D
Entries 88
Mean 0.003072
Std Dev 4.893
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

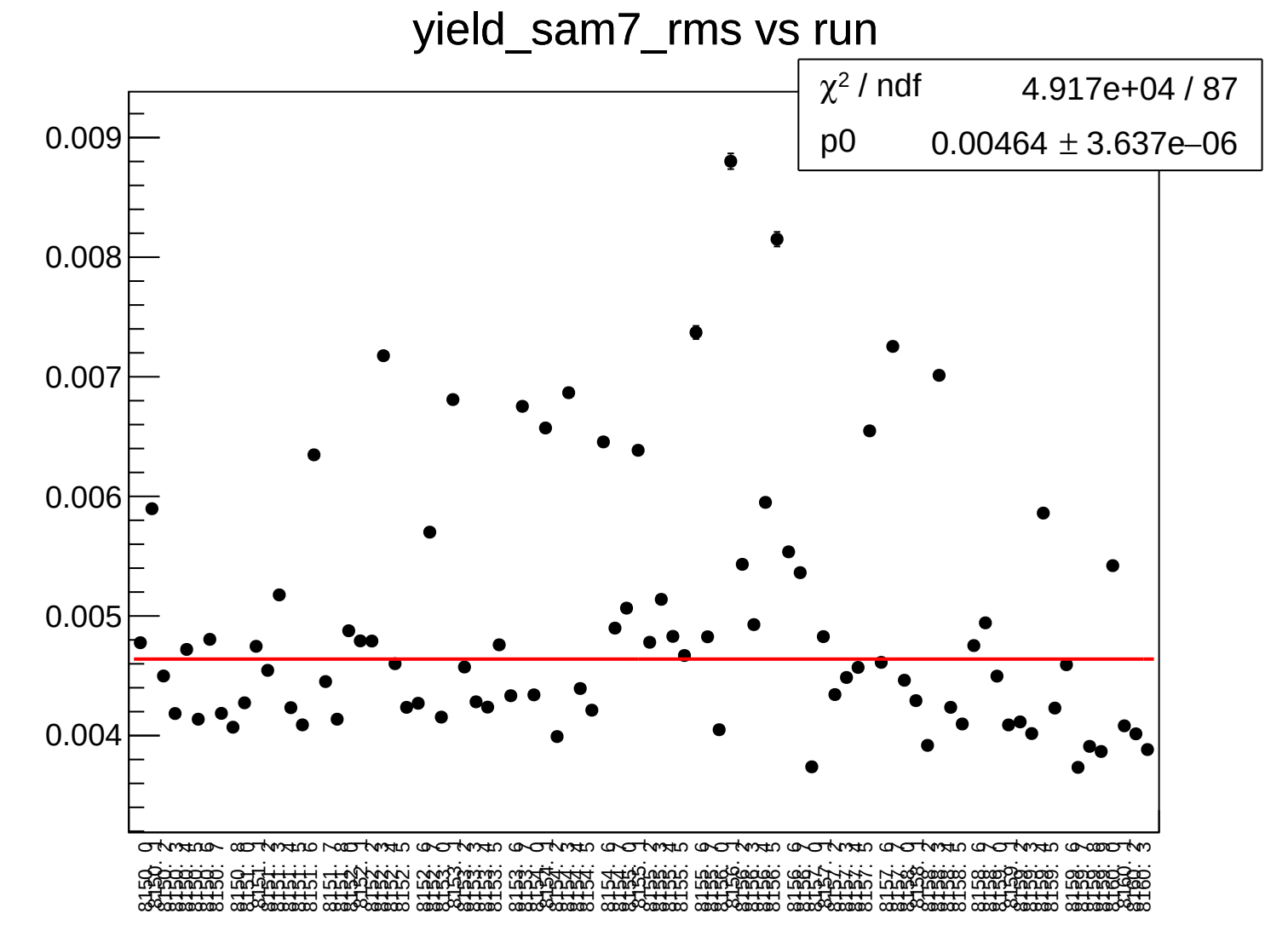

yield_sam5_rms vs run
χ² / ndf 4.441e+04 / 87
p0 0.03968 ± 3.106e–05
0.08
0.07
0.06
0.05
0.04
0.03

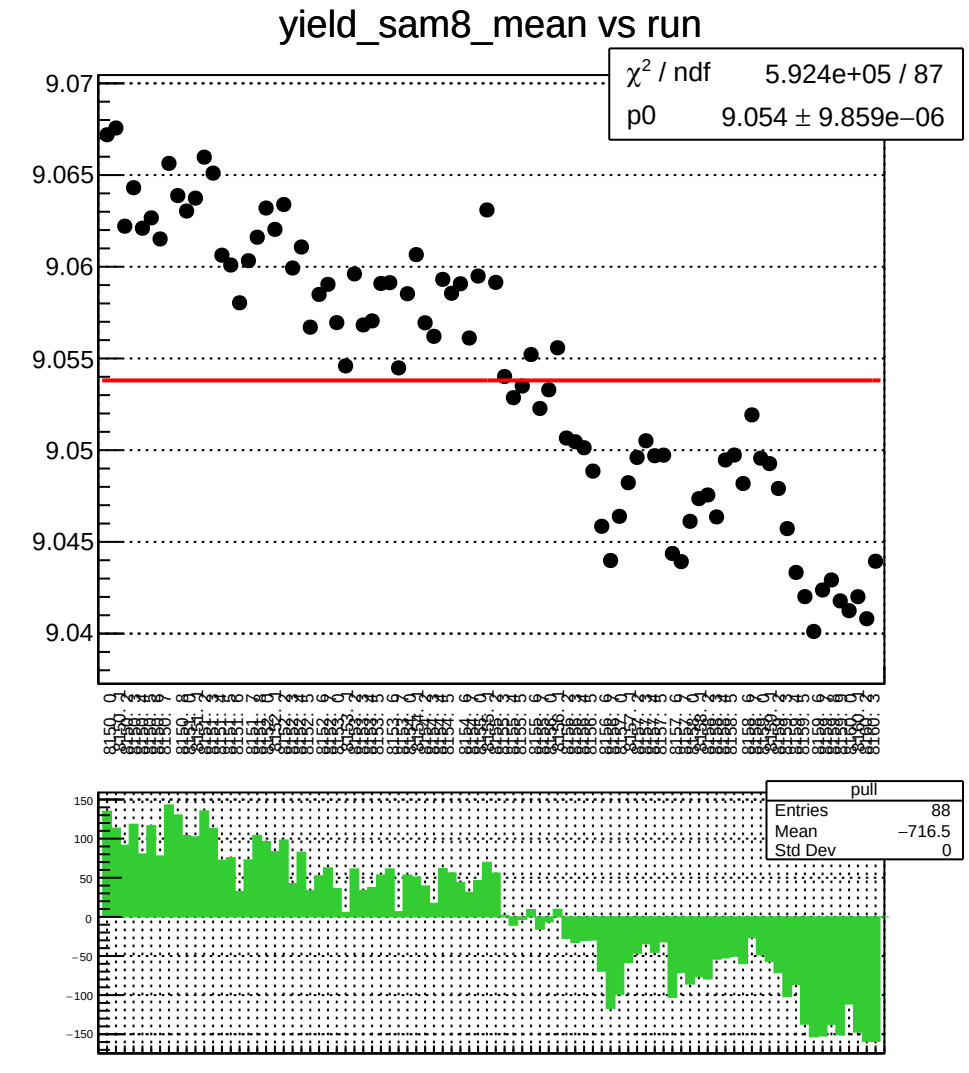

yield_sam6_mean vs run
χ² / ndf 3.026e+04 / 87
p0 9.64 ± 3.768e−05
9.66
9.655
9.65
9.645
9.64
9.635
9.63
9.625
9.62
pull
Entries 88
Mean 40.86
Std Dev 0
40
20
0
−20
−40
pull1D
Entries 88
Mean 1.687
Std Dev 3.616
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

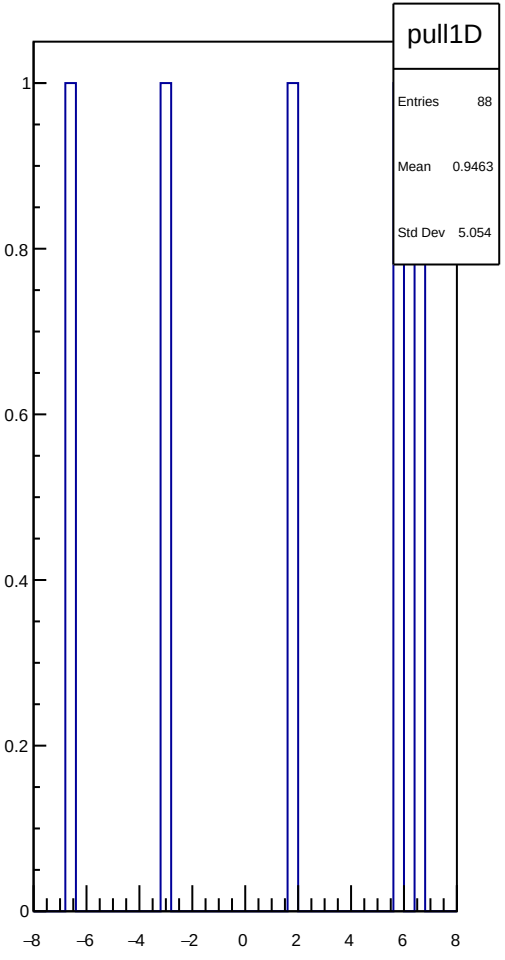

yield_sam6_rms vs run
χ² / ndf 4.288e+04 / 87
p0 0.03405 ± 2.664e–05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03

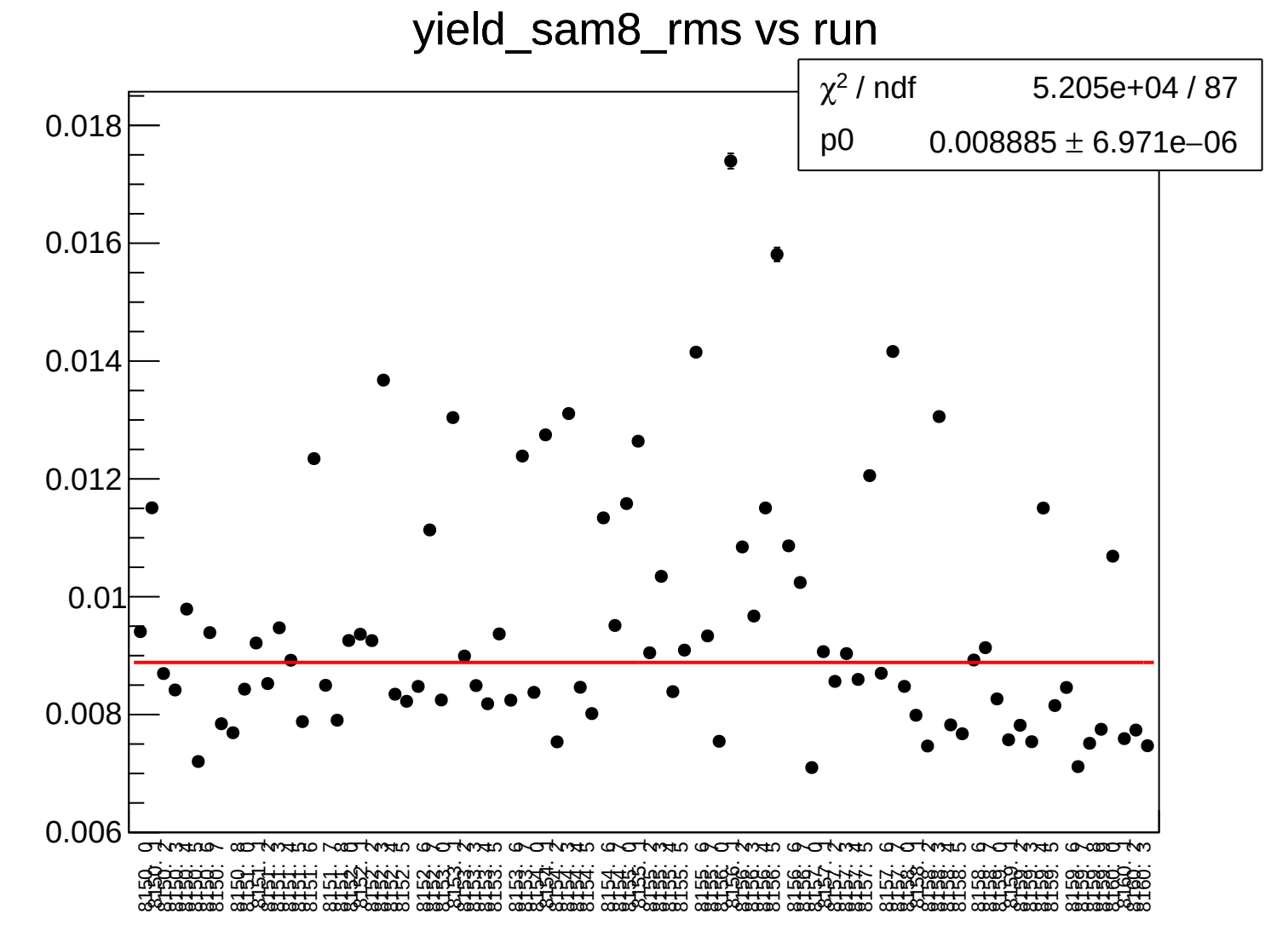

yield_sam7_mean vs run
χ² / ndf 1.475e+05 / 87
p0 2.429 ± 5.144e−06
2.434
2.432
2.43
2.428
2.426
2.424
pull
Entries 88
Mean −1189
Std Dev 0
100
50
0
−50
−100

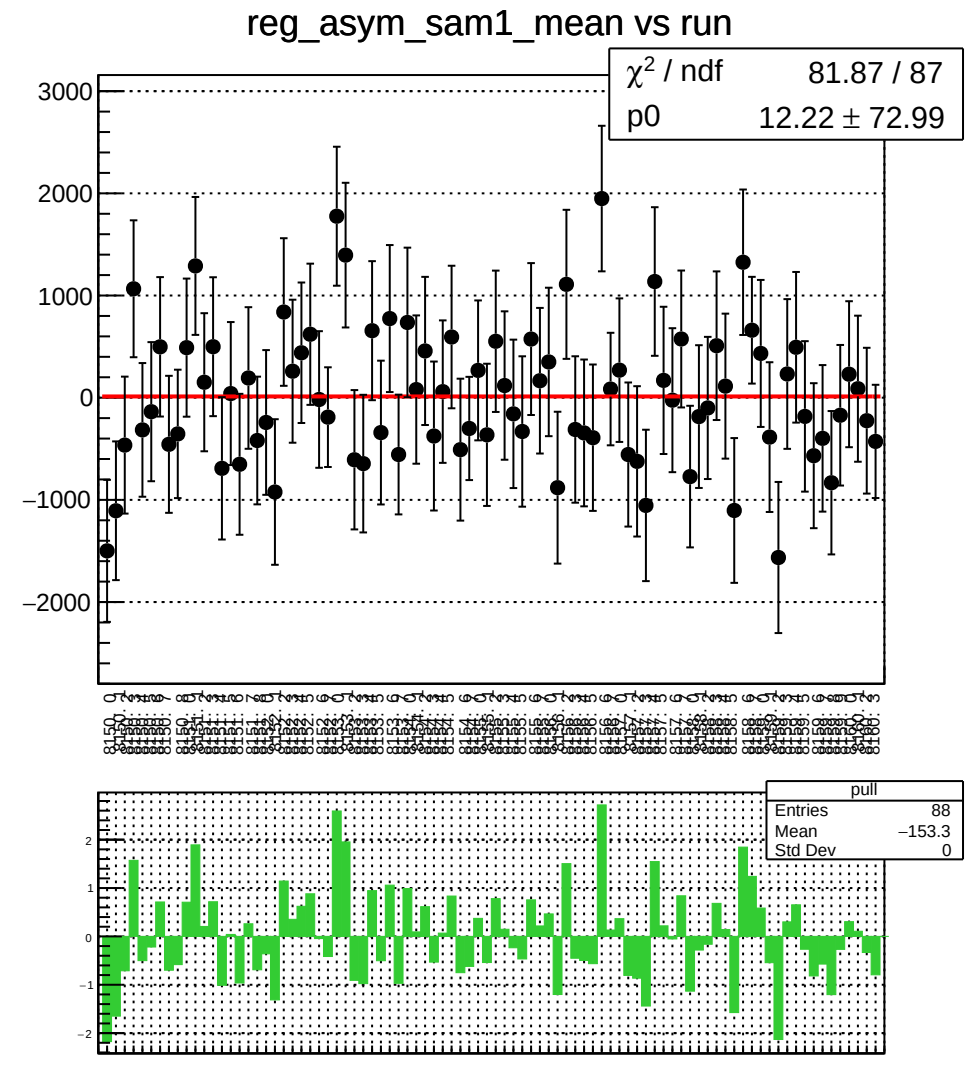

pull1D
Entries 88
Mean −0.2705
Std Dev 4.706
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

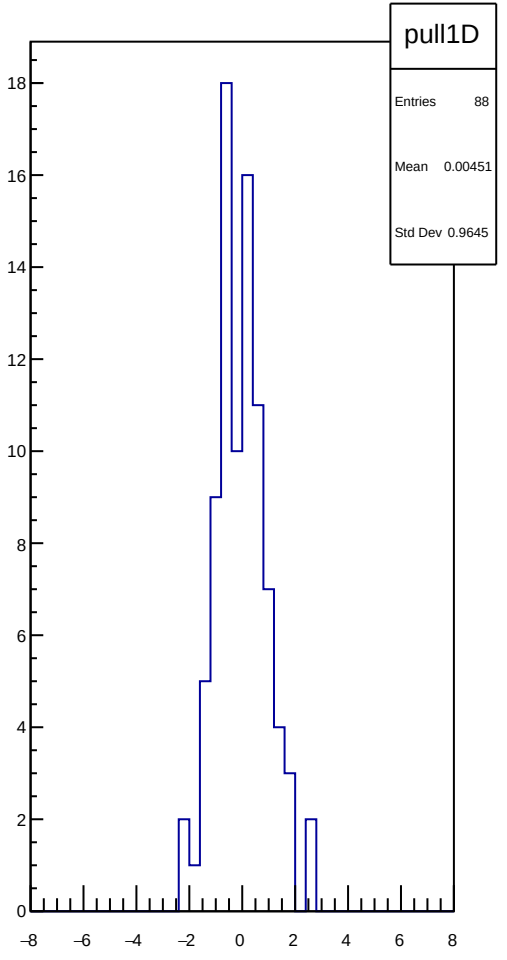

yield_sam7_rms vs run
χ² / ndf 4.917e+04 / 87
p0 0.00464 ± 3.637e–06
0.009
0.008
0.007
0.006
0.005
0.004

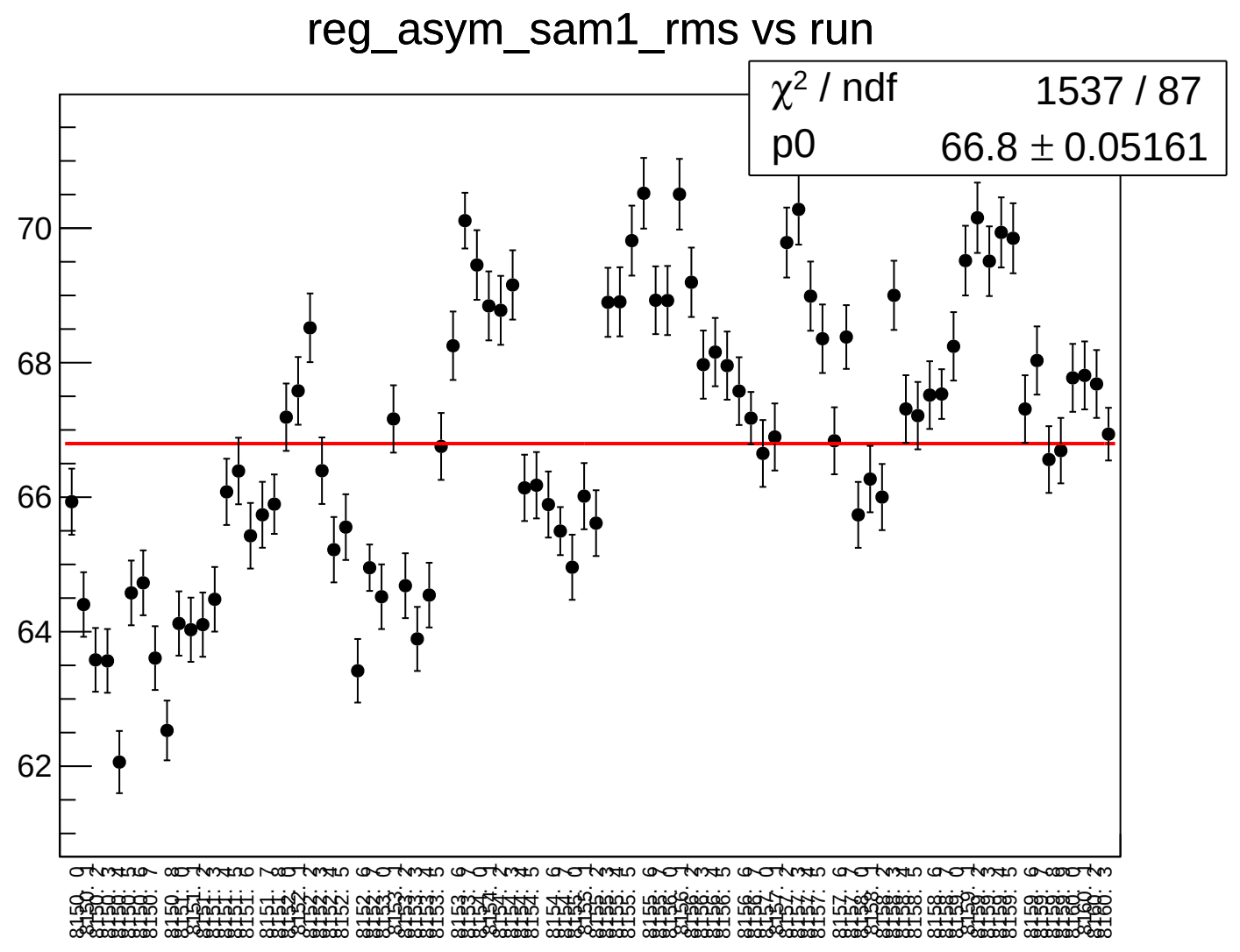

yield_sam8_mean vs run
χ² / ndf 5.924e+05 / 87
p0 9.054 ± 9.859e−06
9.07
9.065
9.06
9.055
9.05
9.045
9.04
pull
Entries 88
Mean −716.5
Std Dev 0
150
100
50
0
−50
−100
−150

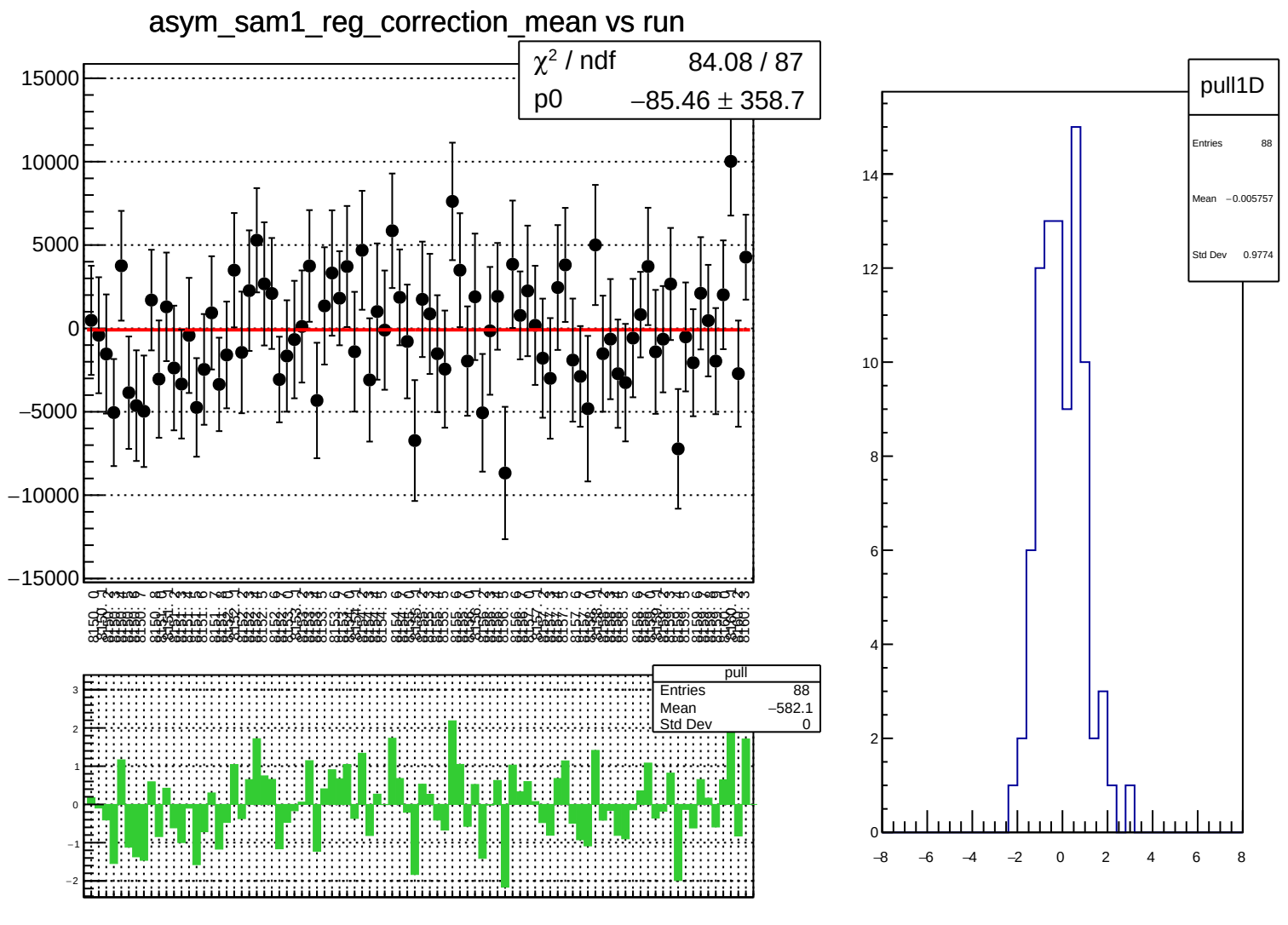

pull1D
Entries 88
Mean 0.9463
Std Dev 5.054
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

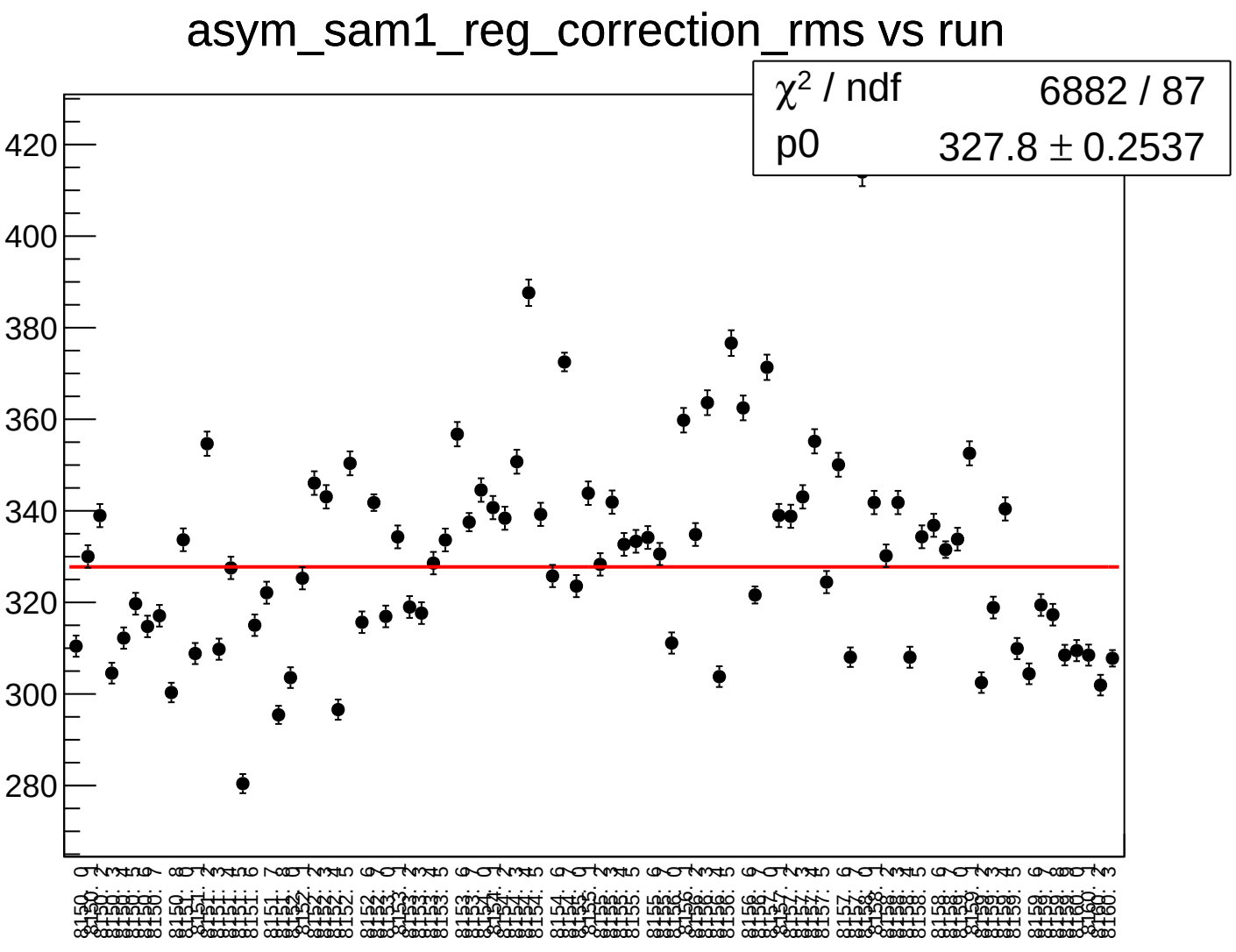

yield_sam8_rms vs run
χ² / ndf 5.205e+04 / 87
p0 0.008885 ± 6.971e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

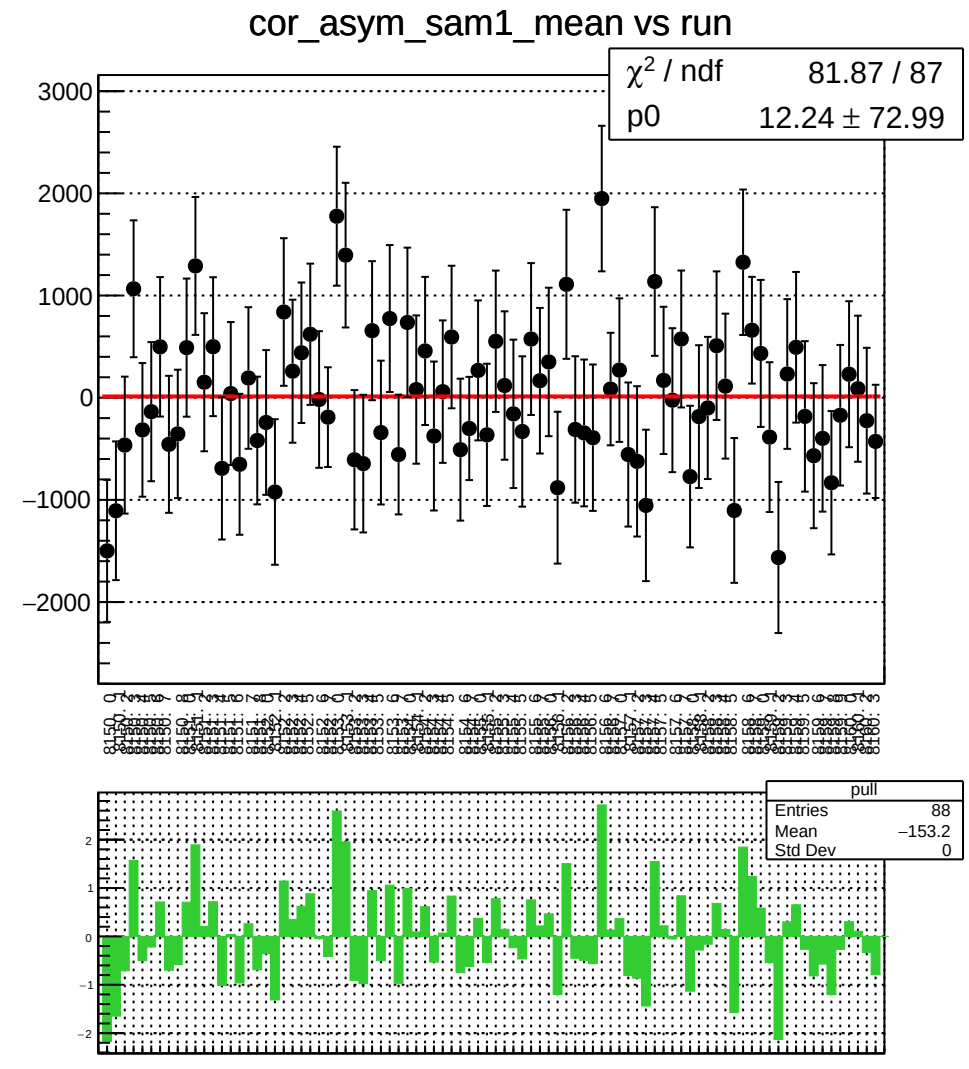

reg_asym_sam1_mean vs run
χ² / ndf 81.87 / 87
p0 12.22 ± 72.99
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −153.3
Std Dev 0
2
1
0
−1
−2

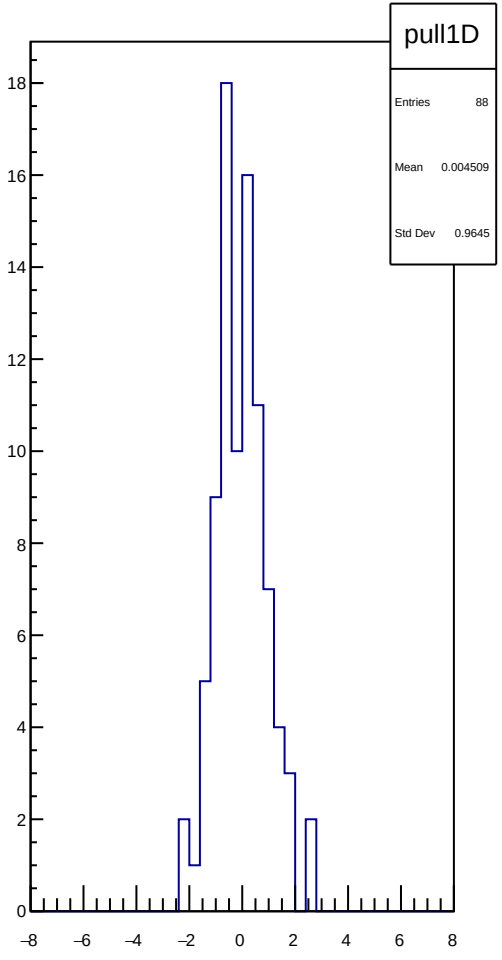

pull1D
Entries 88
Mean 0.00451
Std Dev 0.9645
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

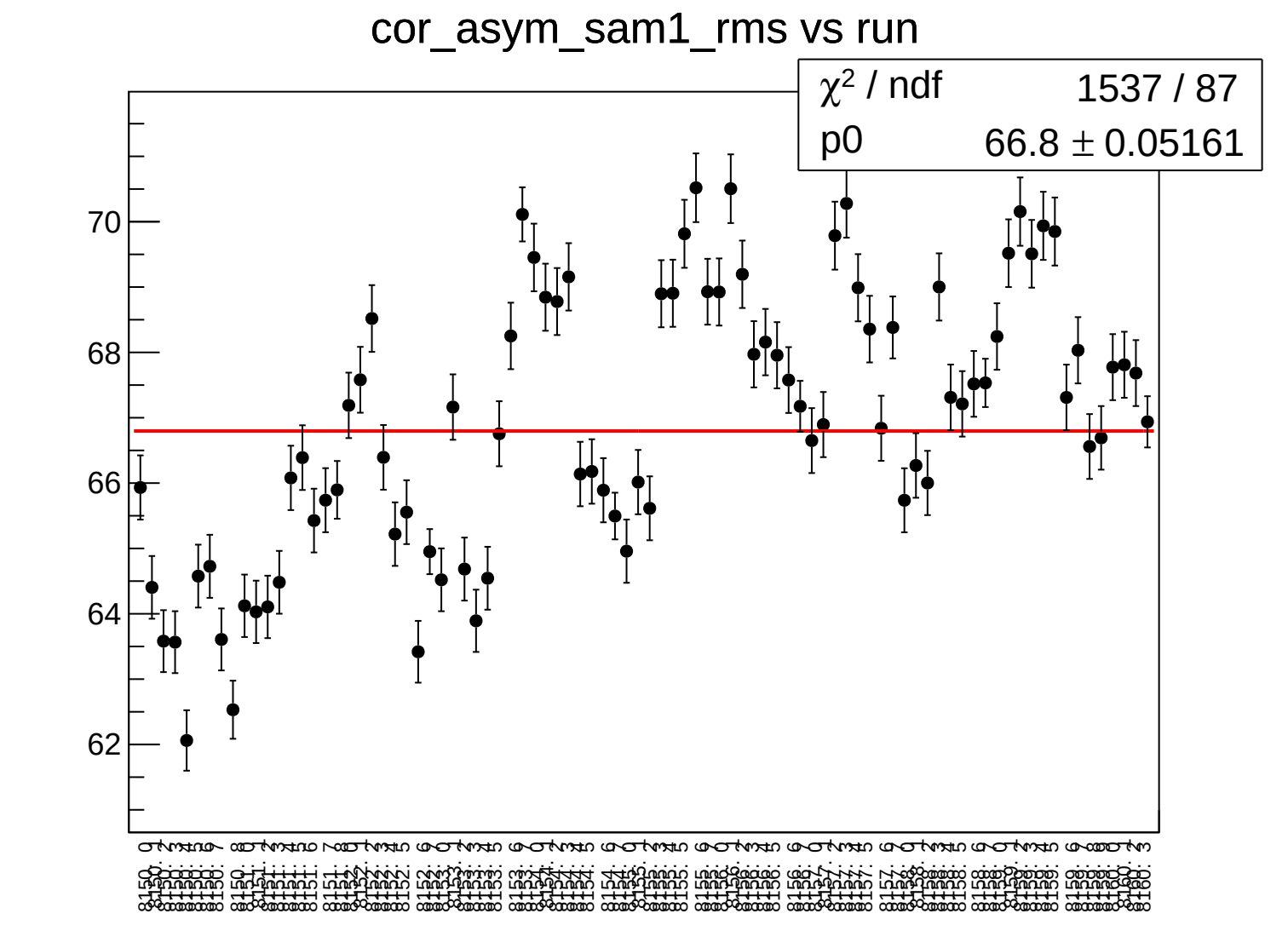

reg_asym_sam1_rms vs run
χ^2 / ndf 1537 / 87
p0 66.8 ± 0.05161
70
68
66
64
62

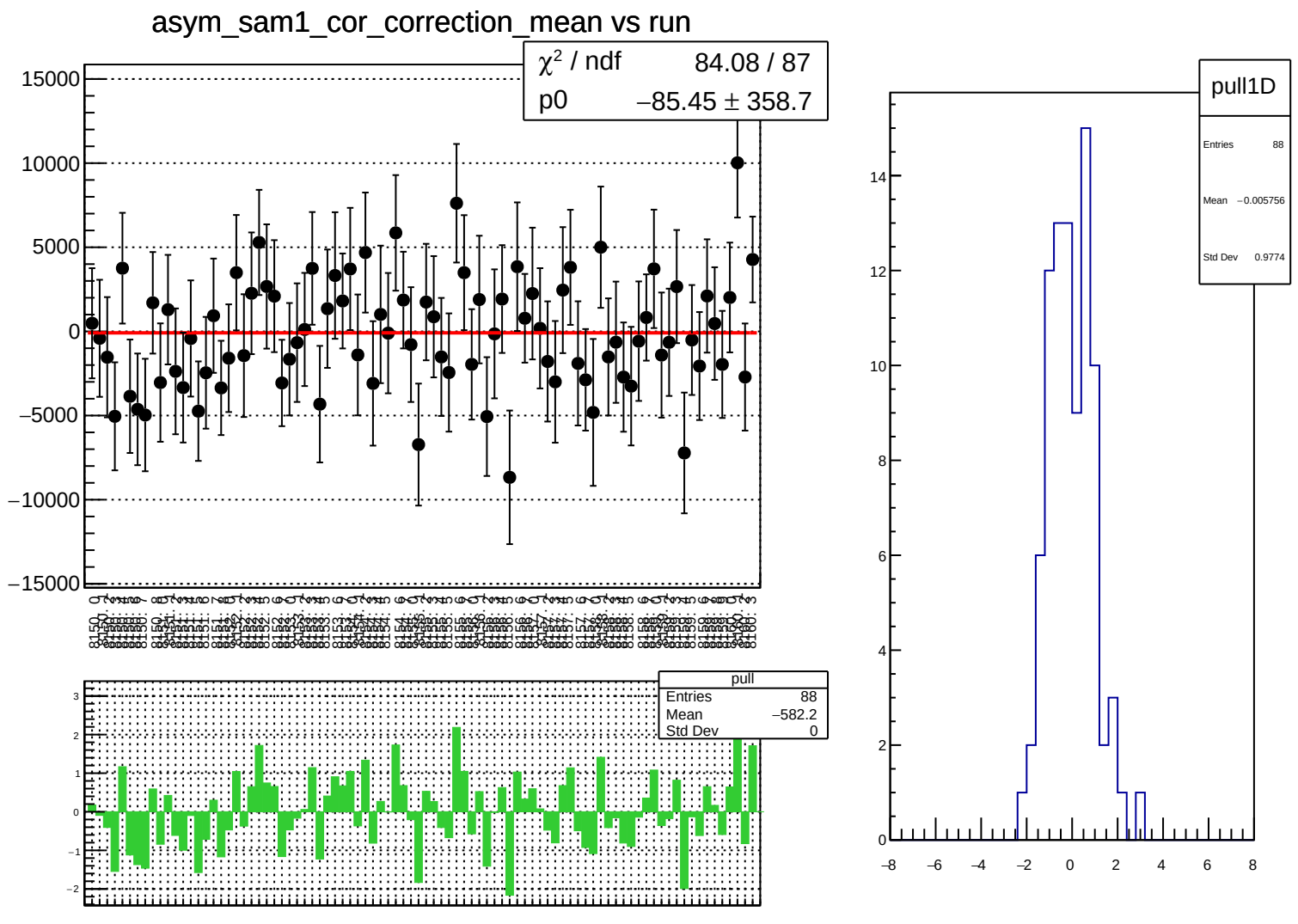

asym_sam1_reg_correction_mean vs run
χ² / ndf 84.08 / 87
p0 −85.46 ± 358.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −582.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.005757
Std Dev 0.9774
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

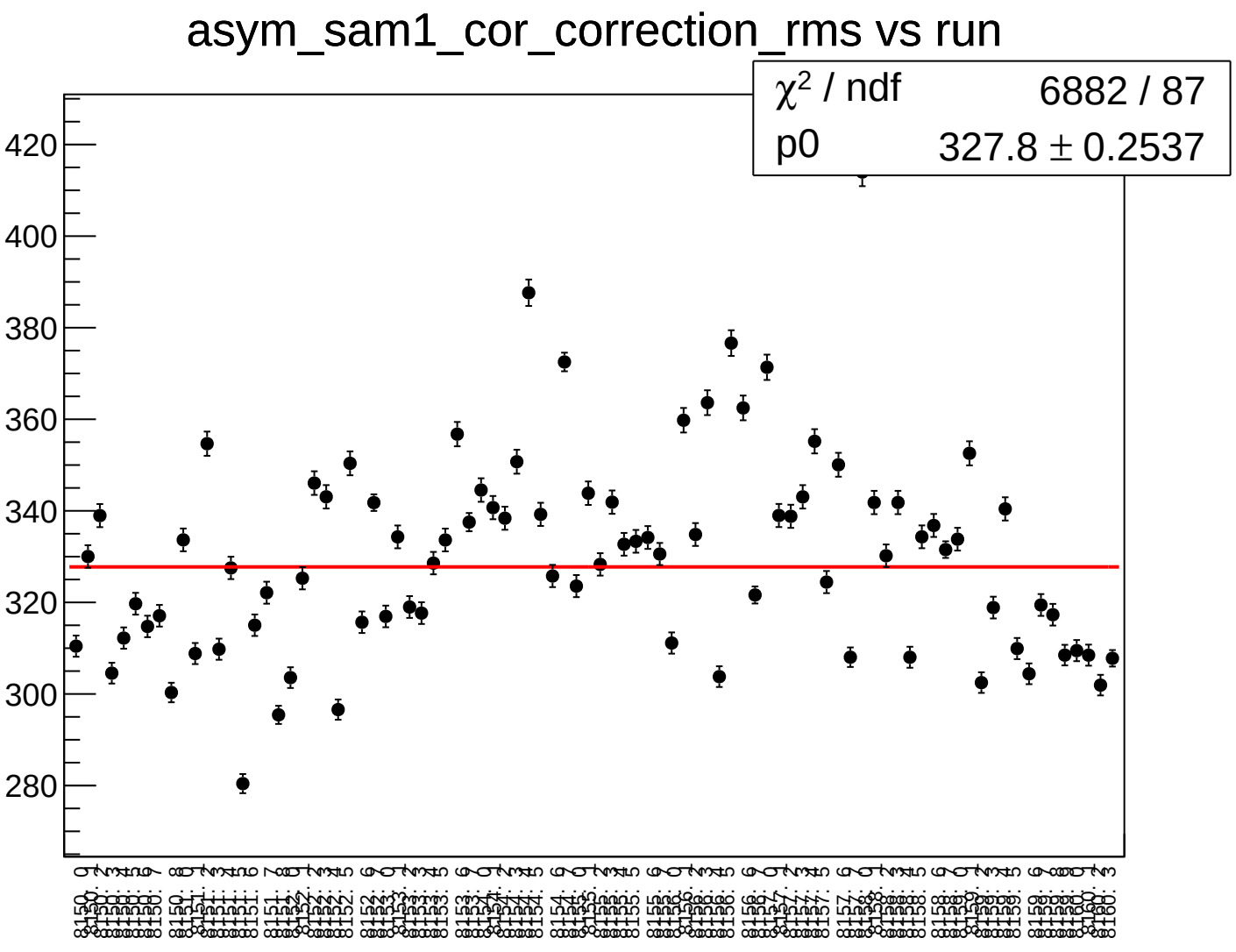

asym_sam1_reg_correction_rms vs run
χ² / ndf 6882 / 87
p0 327.8 ± 0.2537
420
400
380
360
340
320
300
280

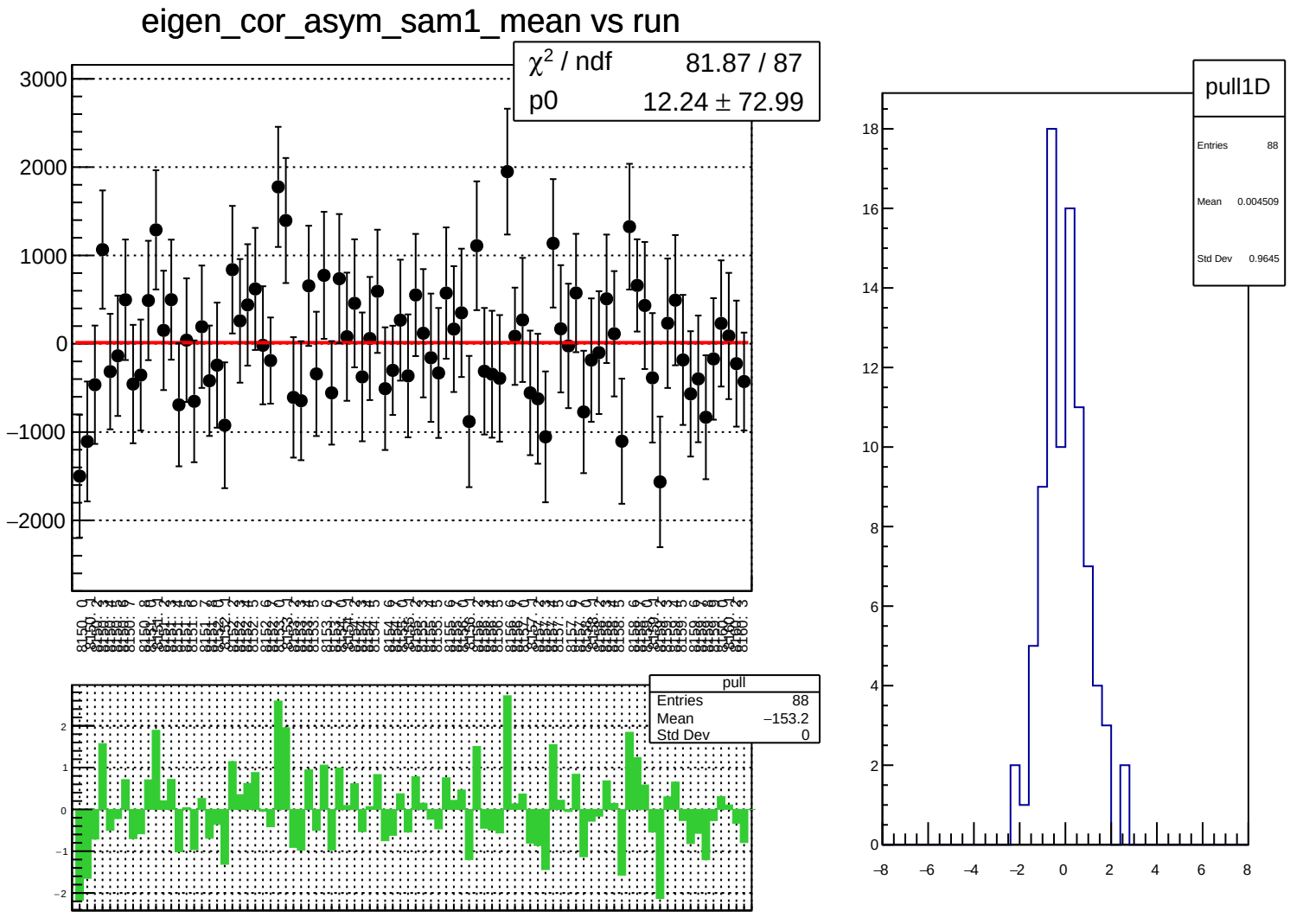

cor_asym_sam1_mean vs run
χ² / ndf 81.87 / 87
p0 12.24 ± 72.99
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −153.2
Std Dev 0
2
1
0
−1
−2

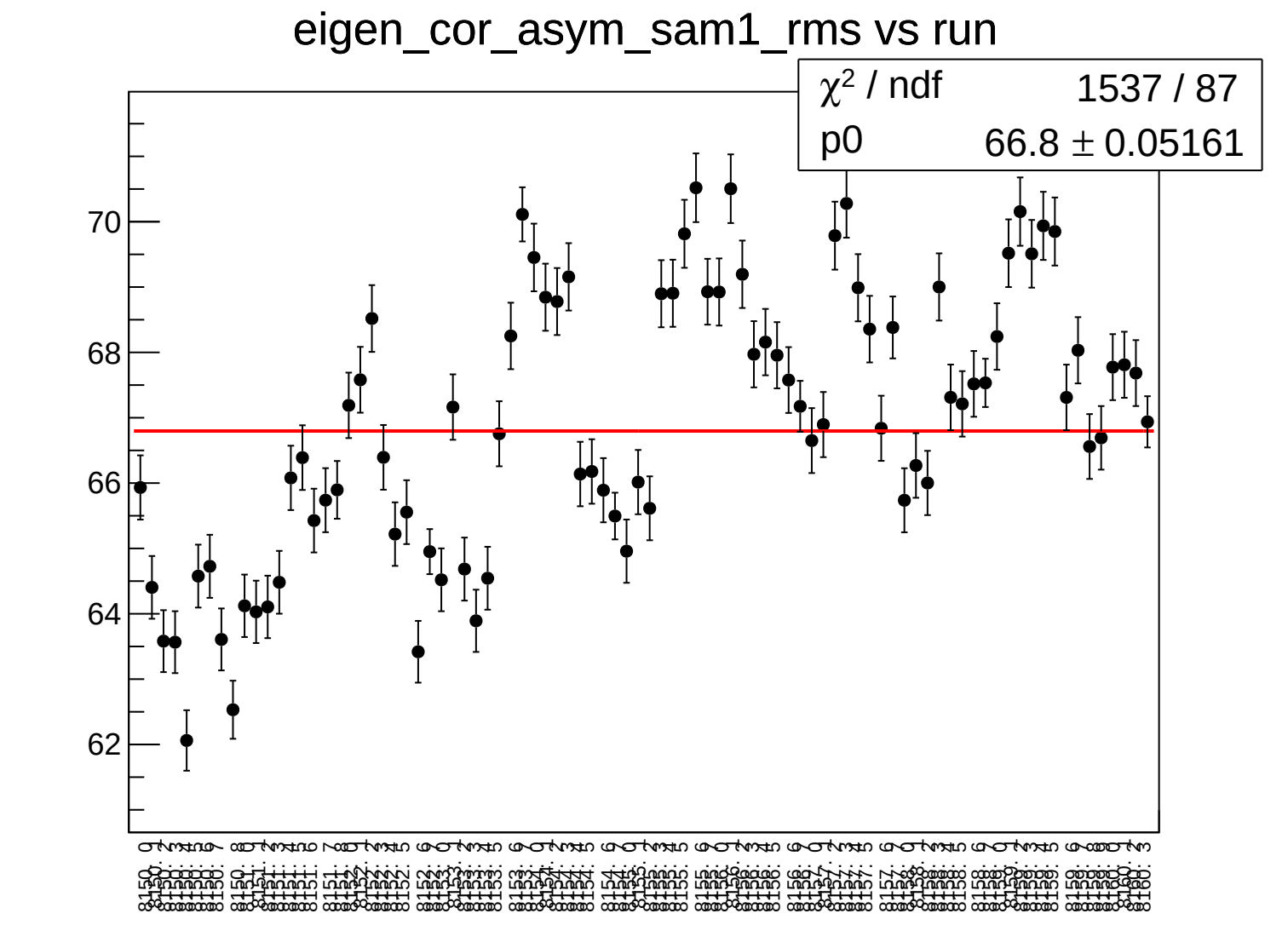

pull1D
Entries 88
Mean 0.004509
Std Dev 0.9645
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

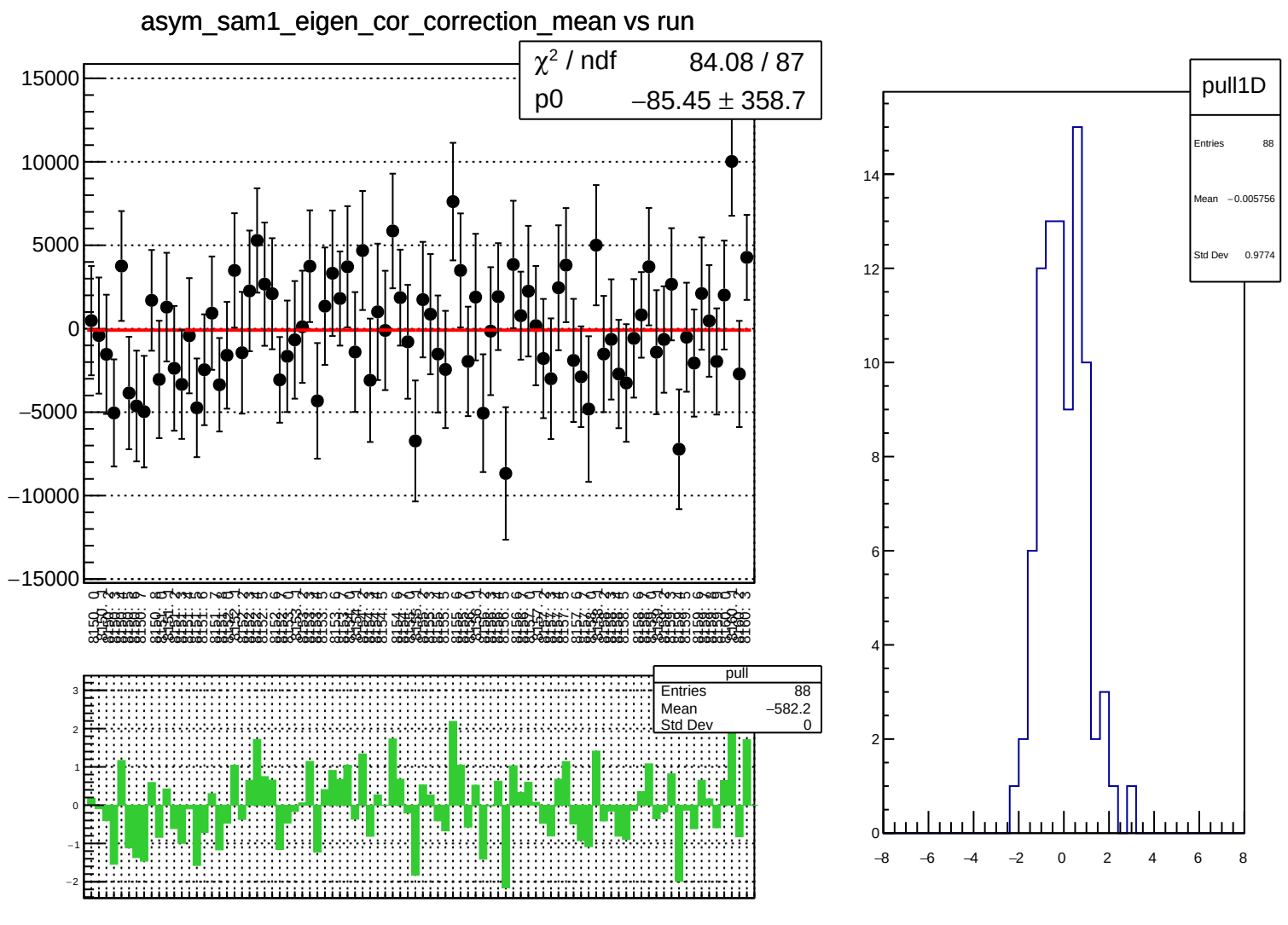

cor_asym_sam1_rms vs run
χ^2 / ndf 1537 / 87
p0 66.8 ± 0.05161
70
68
66
64
62

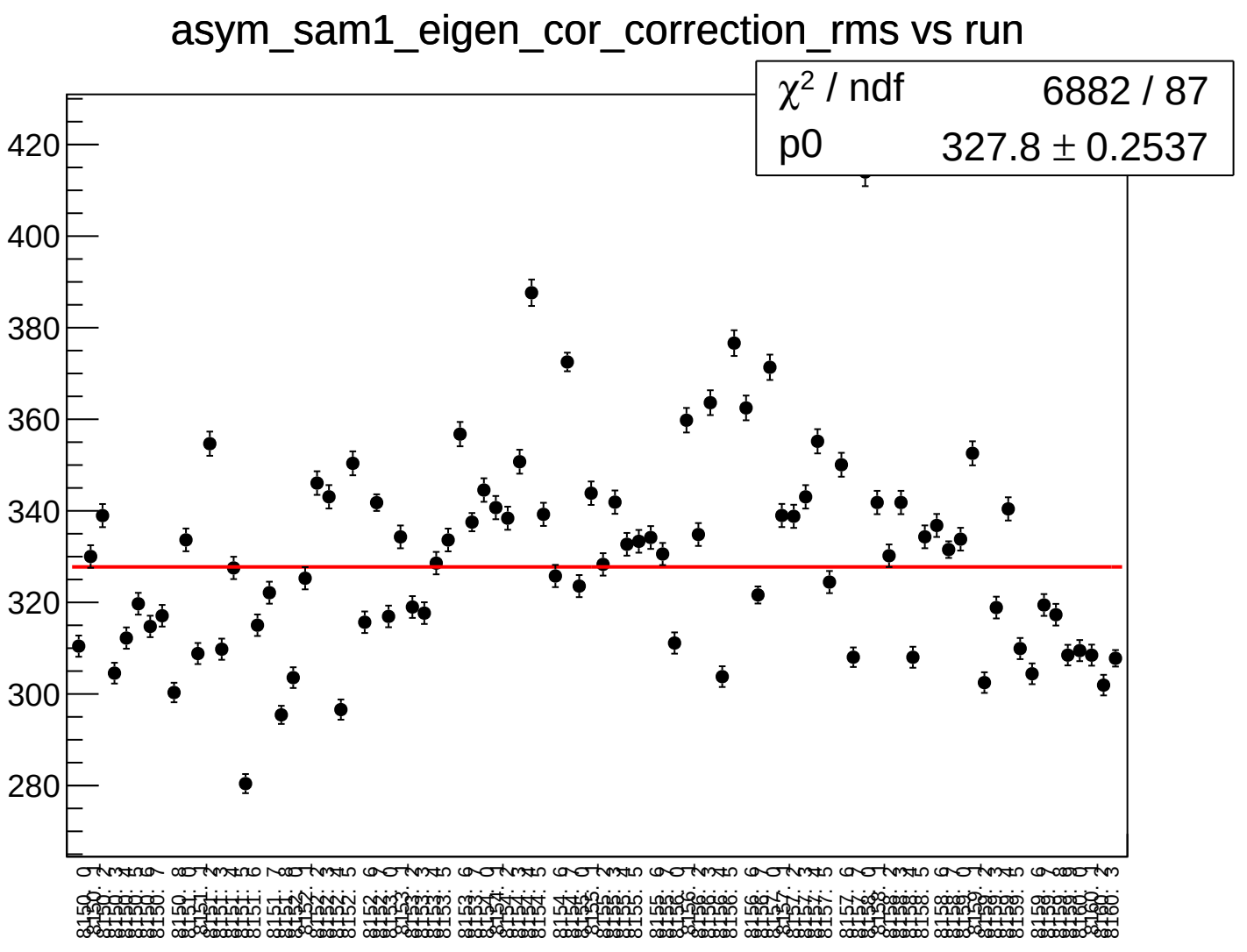

asym_sam1_cor_correction_mean vs run
χ² / ndf 84.08 / 87
p0 −85.45 ± 358.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −582.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.005756
Std Dev 0.9774
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

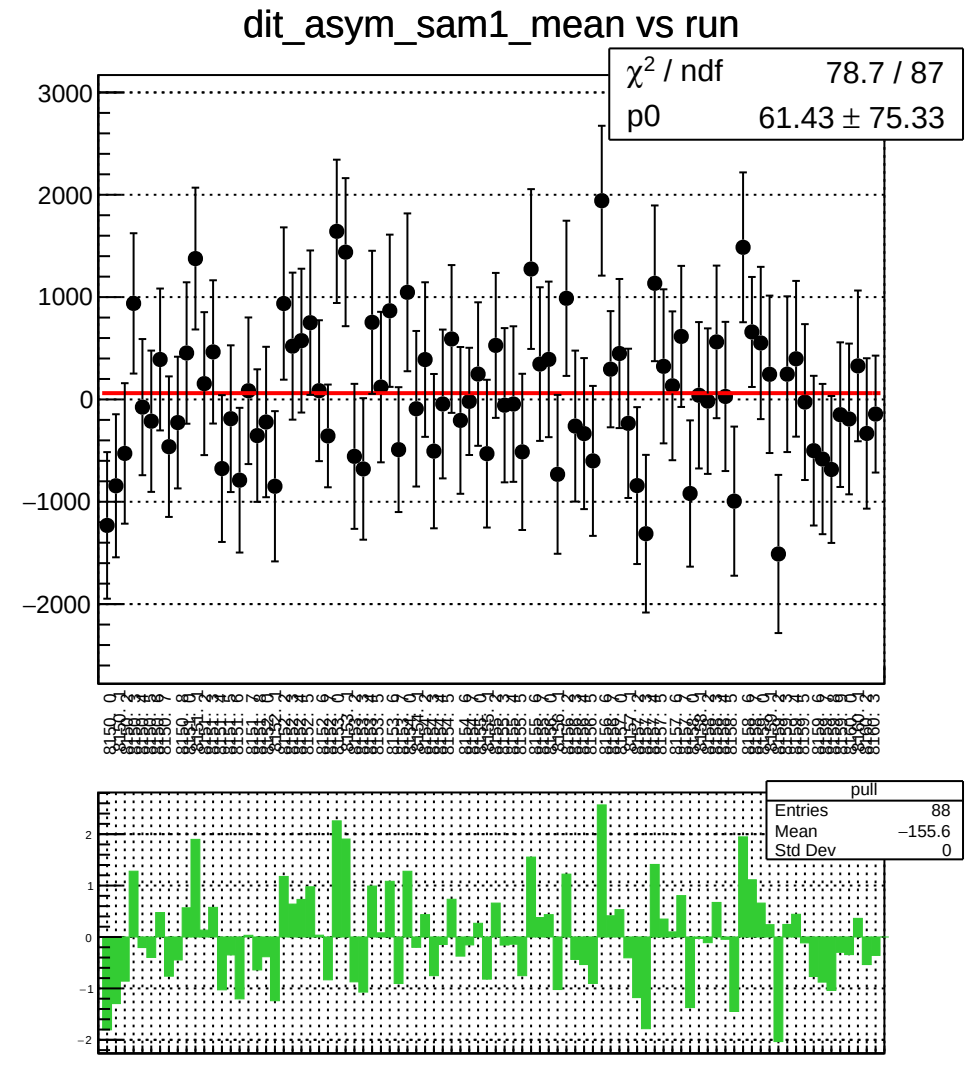

asym_sam1_cor_correction_rms vs run
χ² / ndf 6882 / 87
p0 327.8 ± 0.2537
420
400
380
360
340
320
300
280

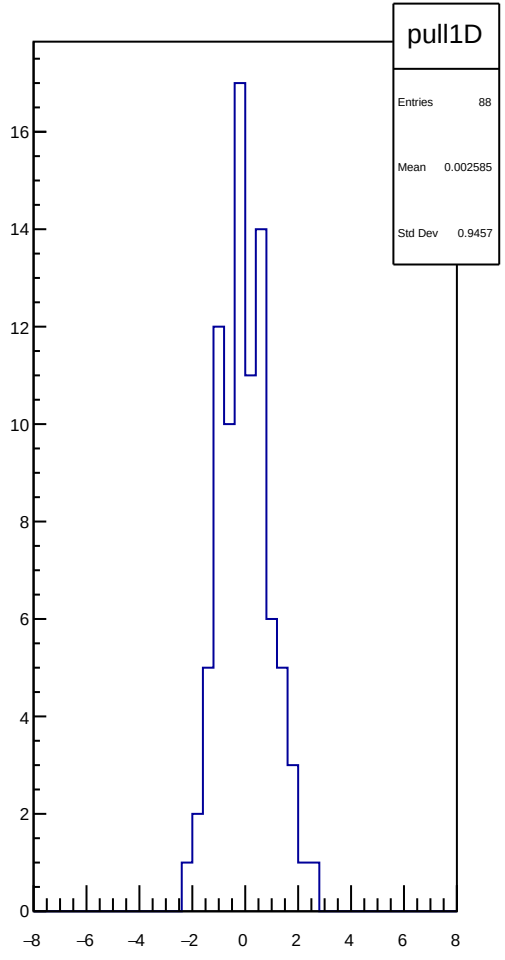

eigen_cor_asym_sam1_mean vs run
χ² / ndf 81.87 / 87
p0 12.24 ± 72.99
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −153.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.004509
Std Dev 0.9645
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

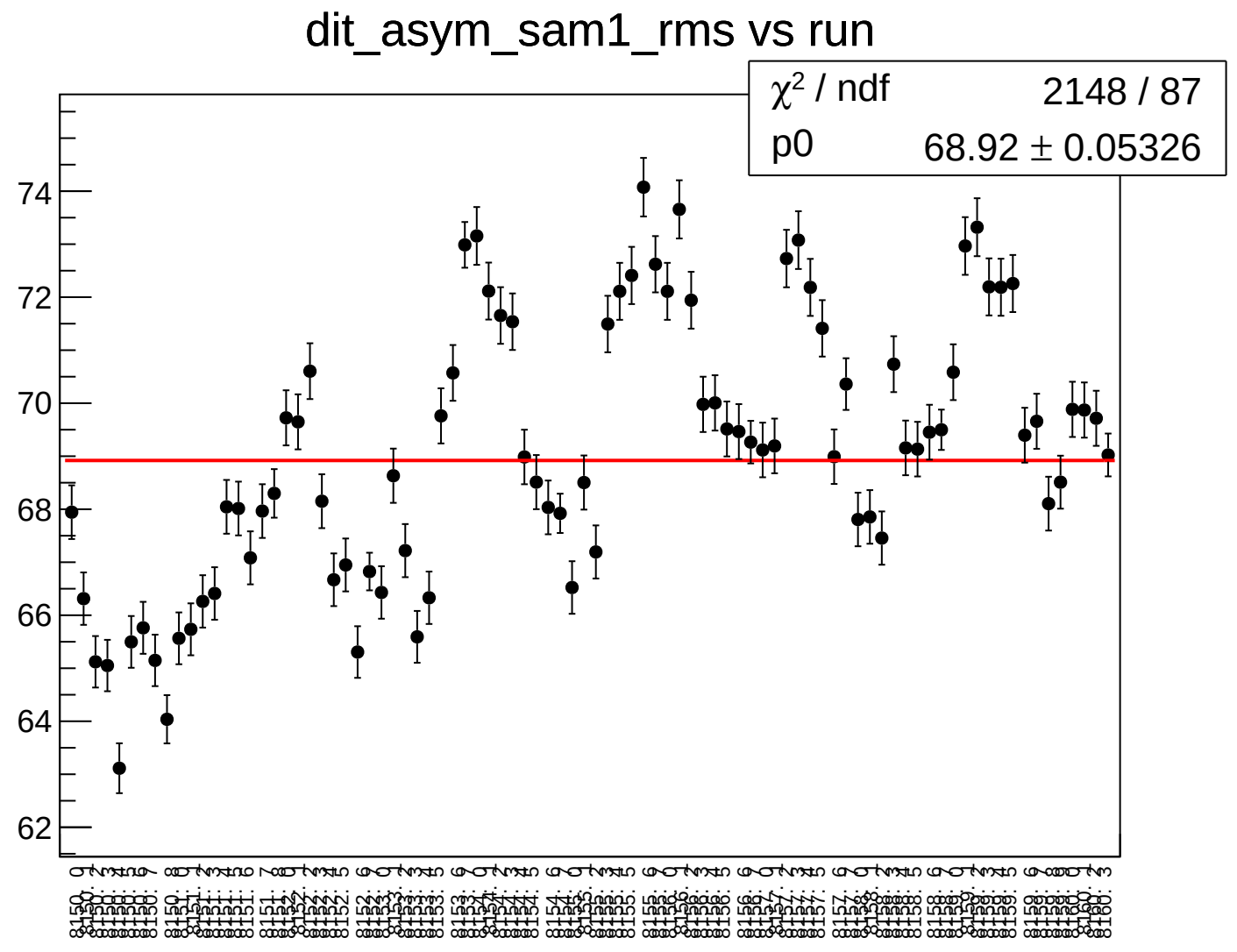

eigen_cor_asym_sam1_rms vs run
χ^2 / ndf 1537 / 87
p0 66.8 ± 0.05161
70
68
66
64
62

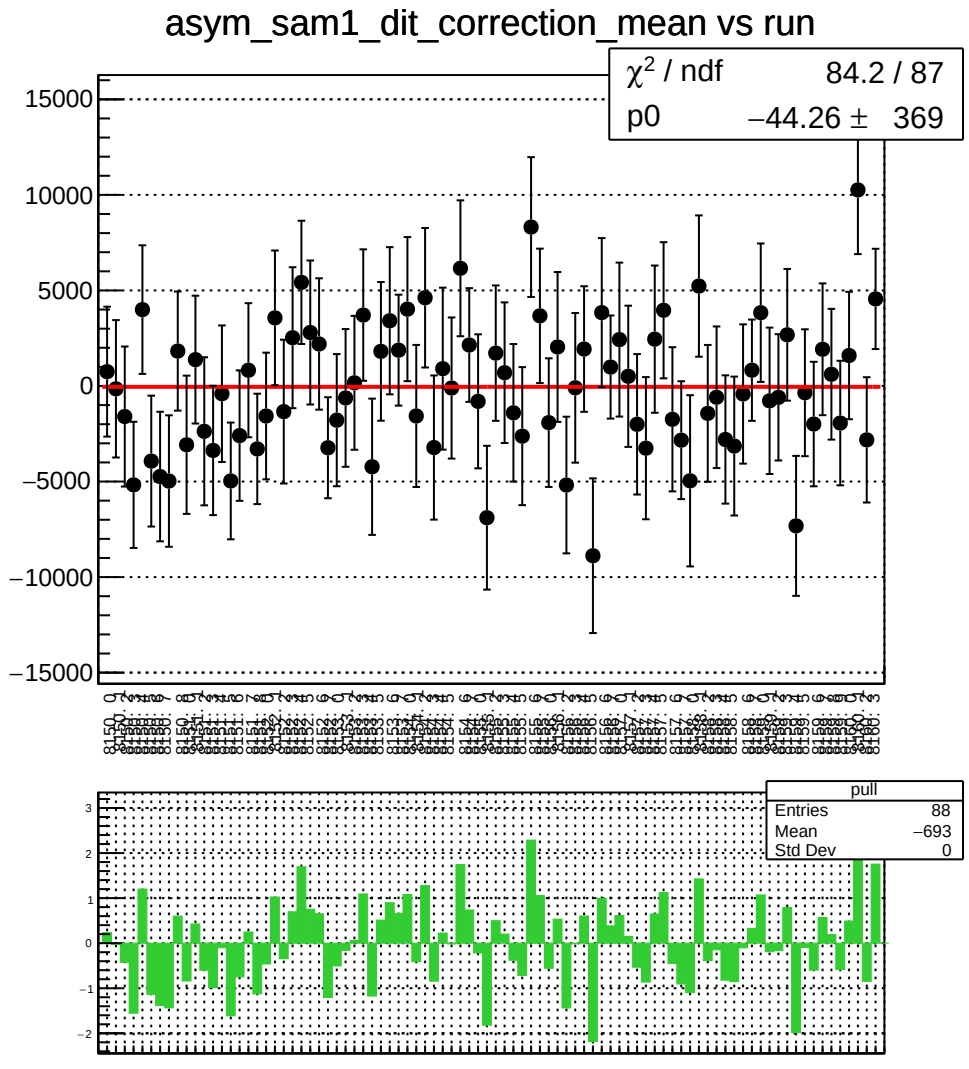

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 84.08 / 87
p0 −85.45 ± 358.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −582.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.005756
Std Dev 0.9774
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

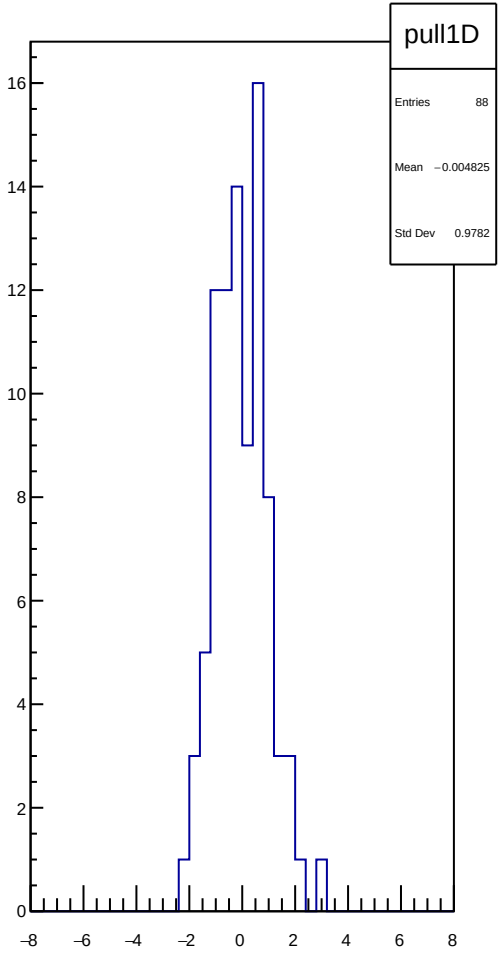

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 6882 / 87
p0 327.8 ± 0.2537
420
400
380
360
340
320
300
280

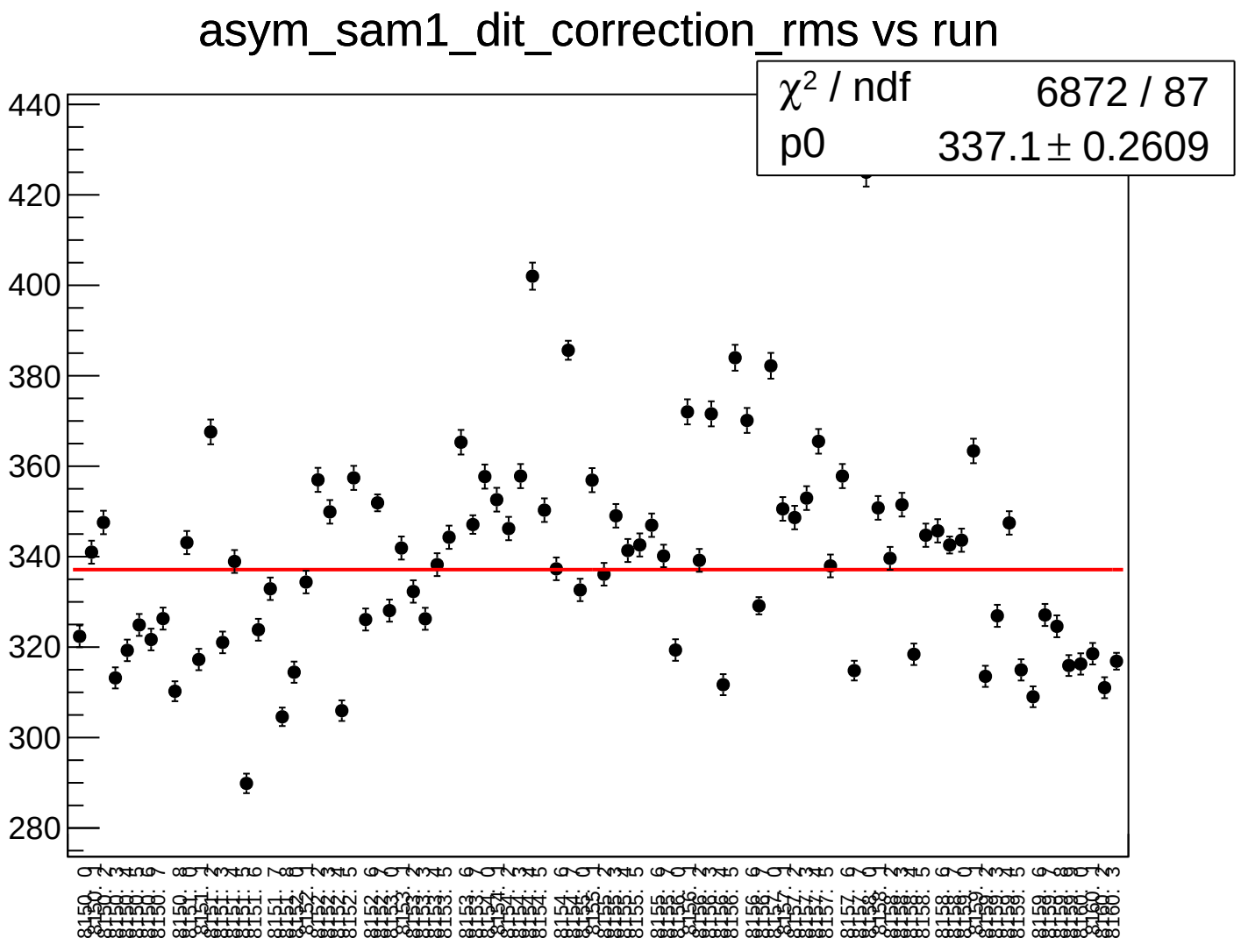

dit_asym_sam1_mean vs run
χ² / ndf 78.7 / 87
p0 61.43 ± 75.33
pull
Entries 88
Mean −155.6
Std Dev 0

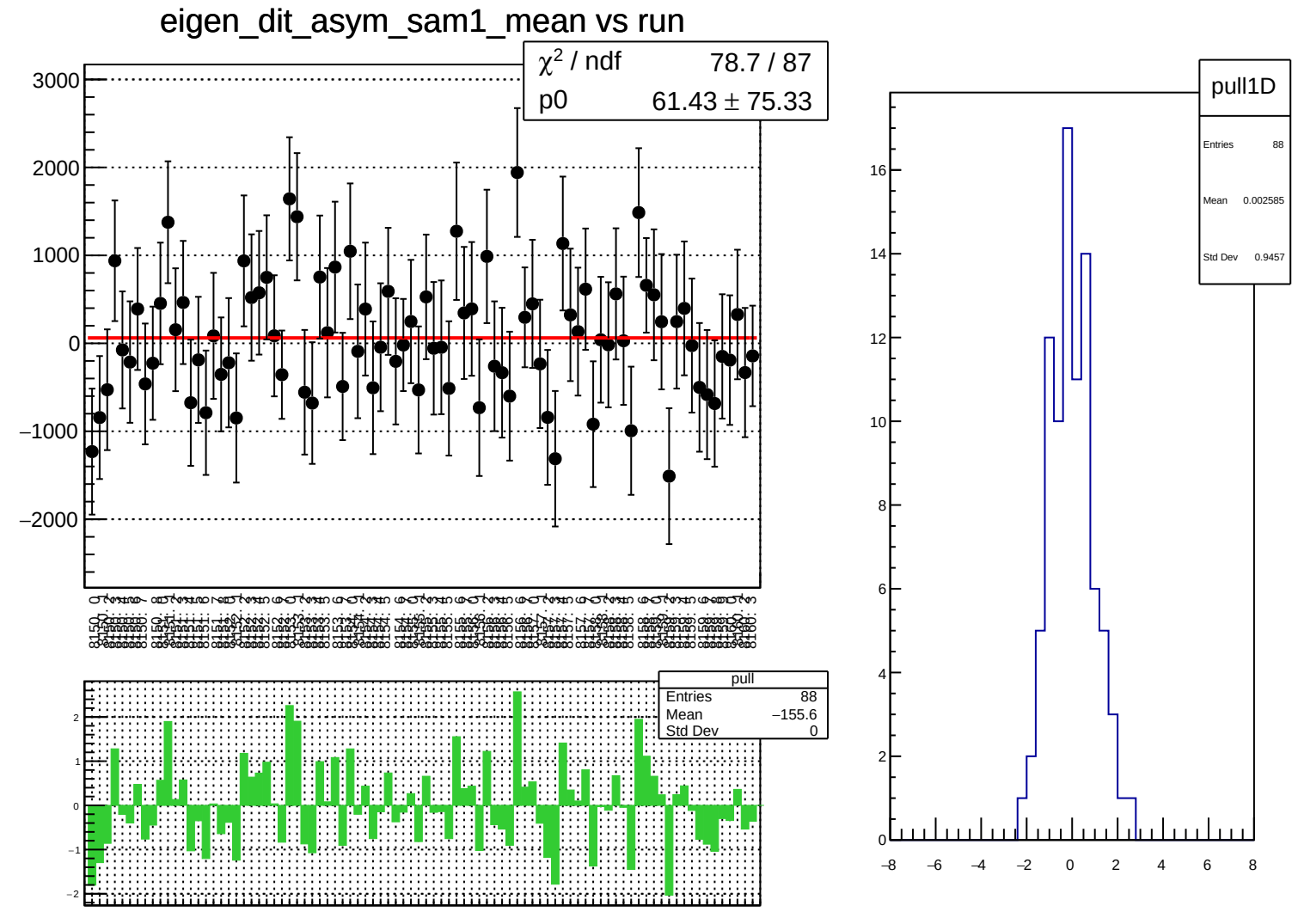

pull1D
Entries 88
Mean 0.002585
Std Dev 0.9457

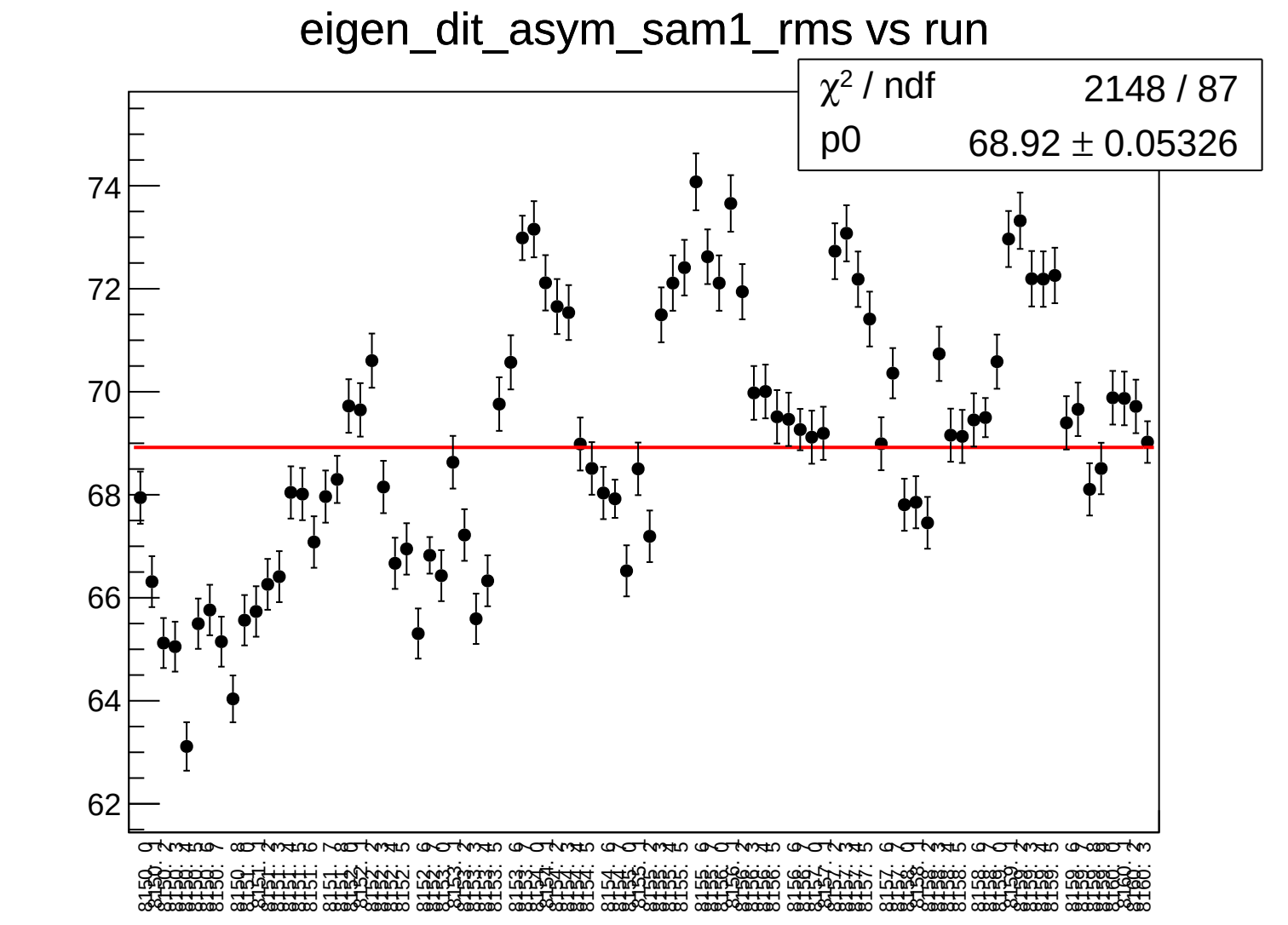

dit_asym_sam1_rms vs run
χ² / ndf 2148 / 87
p0 68.92 ± 0.05326
74
72
70
68
66
64
62

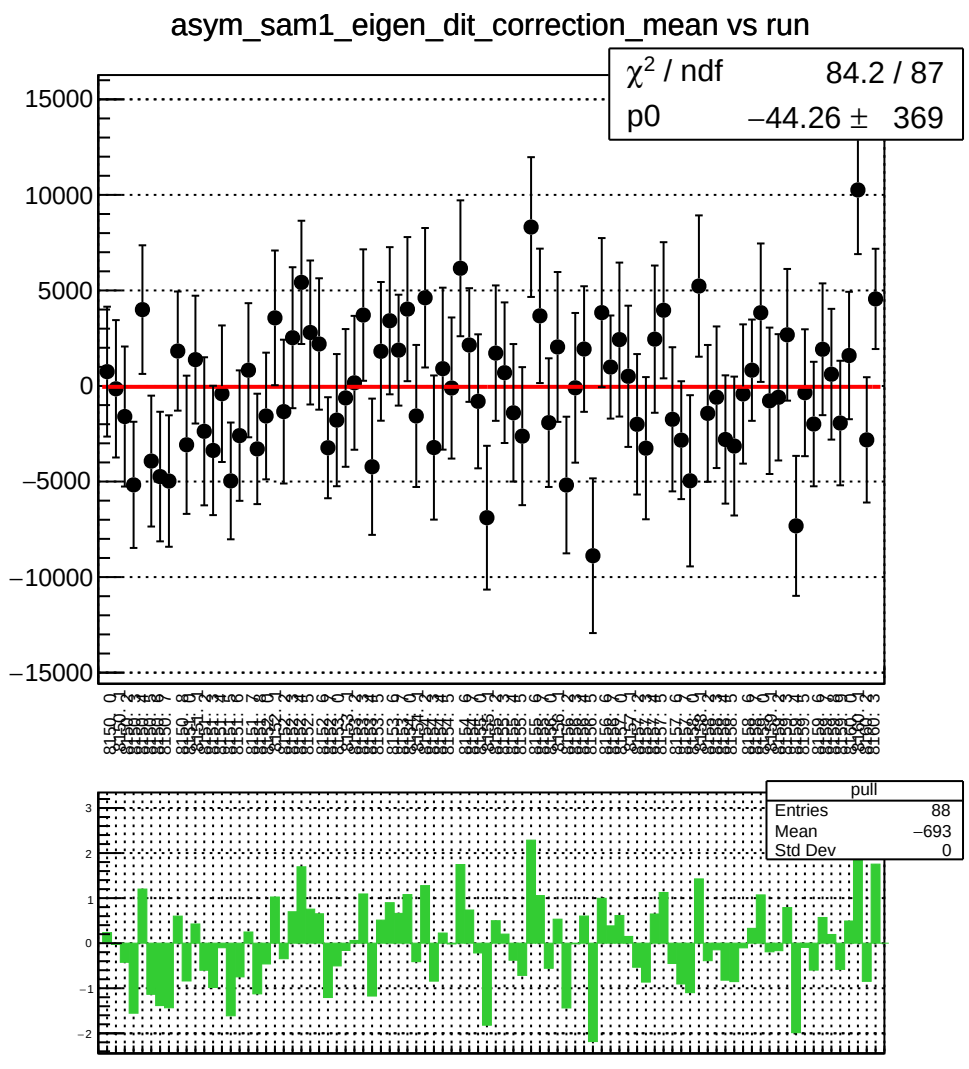

asym_sam1_dit_correction_mean vs run
χ² / ndf 84.2 / 87
p0 −44.26 ± 369
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −693
Std Dev 0
3
2
1
0
−1
−2

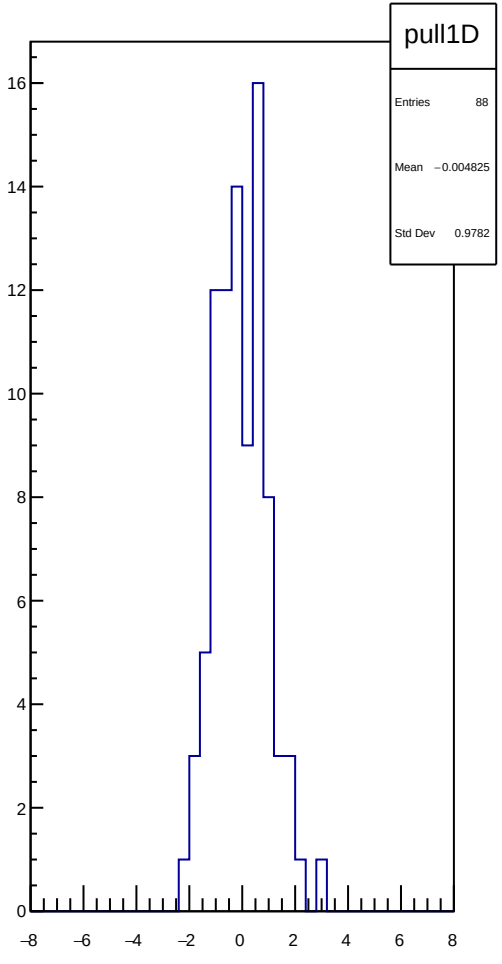

pull1D
Entries 88
Mean −0.004825
Std Dev 0.9782
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

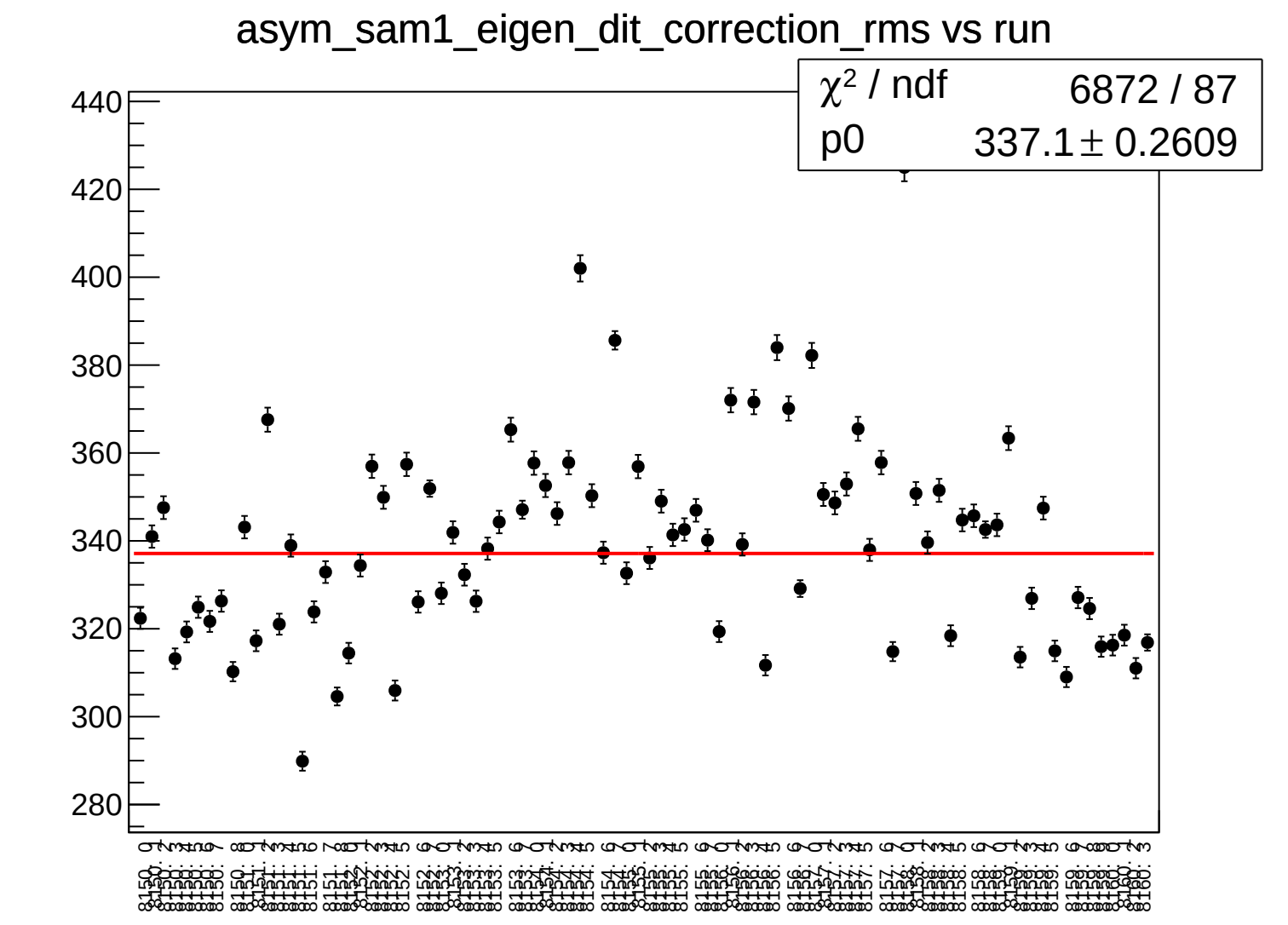

asym_sam1_dit_correction_rms vs run
χ² / ndf 6872 / 87
p0 337.1 ± 0.2609
440
420
400
380
360
340
320
300
280

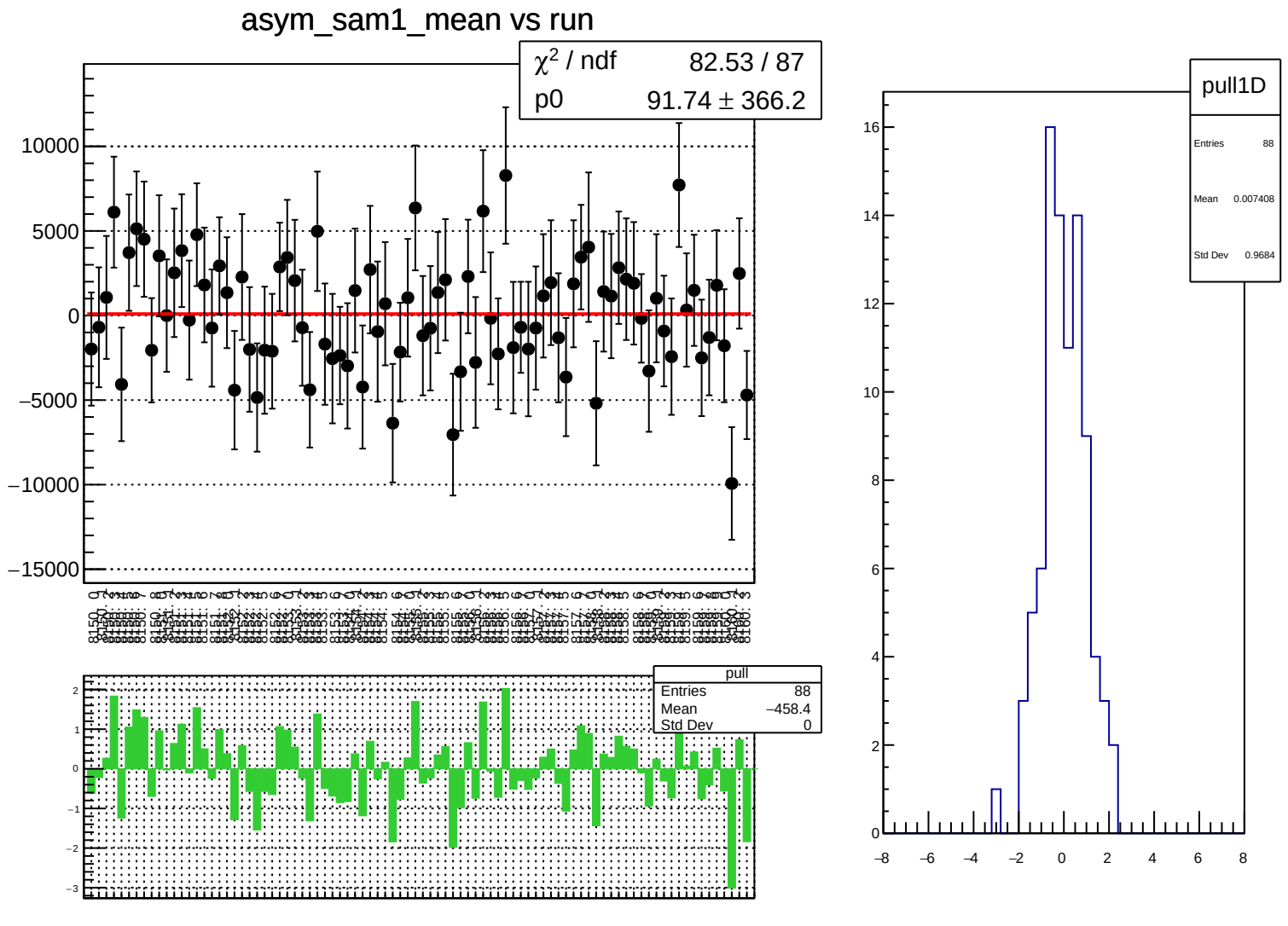

eigen_dit_asym_sam1_mean vs run
χ² / ndf 78.7 / 87
p0 61.43 ± 75.33
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −155.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.002585
Std Dev 0.9457
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

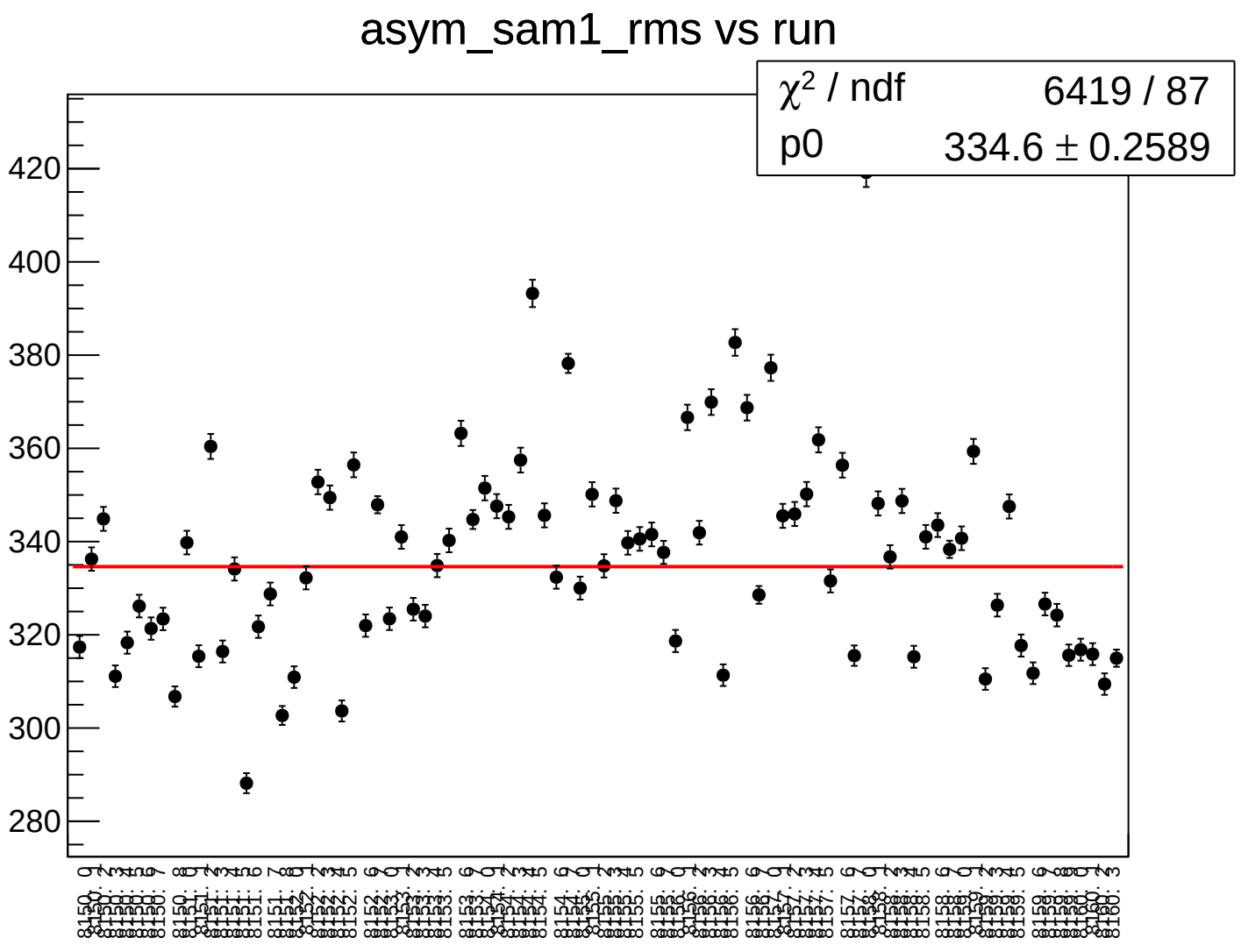

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 2148 / 87
p0 68.92 ± 0.05326
74
72
70
68
66
64
62

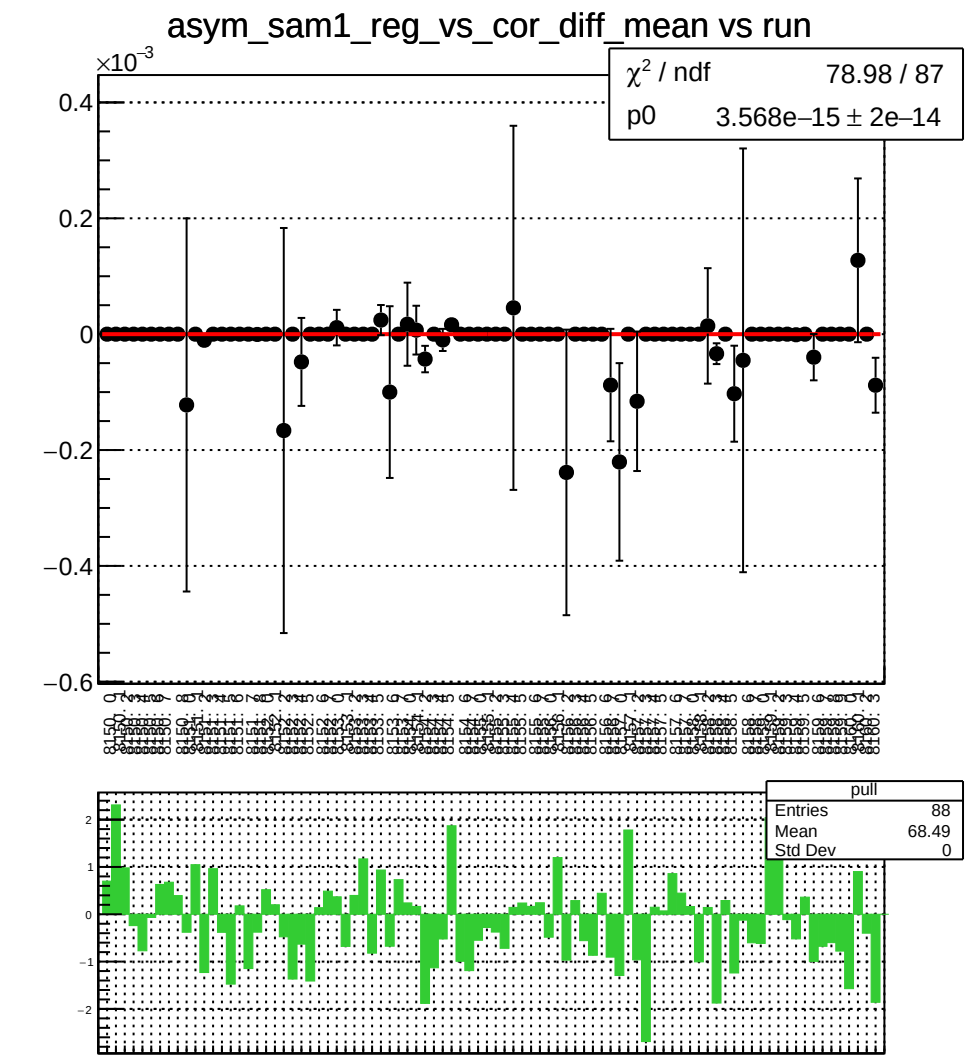

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 84.2 / 87
p0 −44.26 ± 369
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −693
Std Dev 0
3
2
1
0
−1
−2

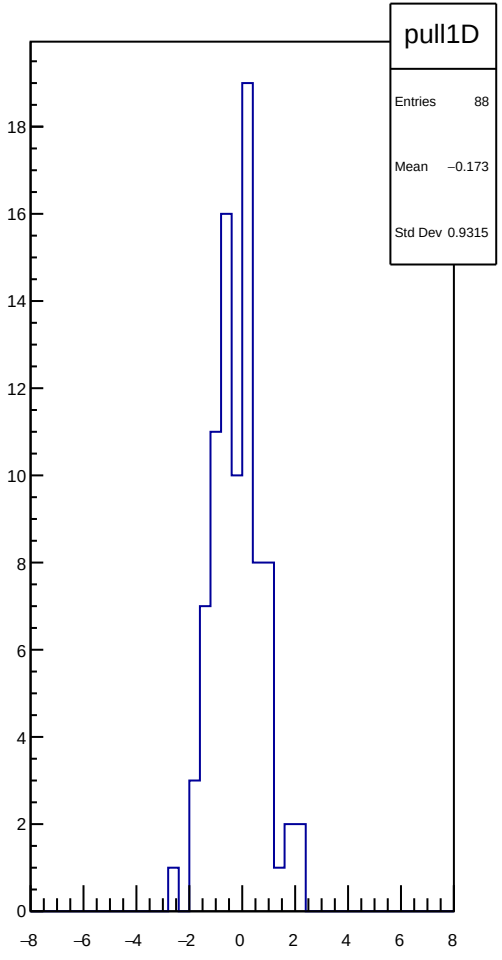

pull1D
Entries 88
Mean −0.004825
Std Dev 0.9782
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

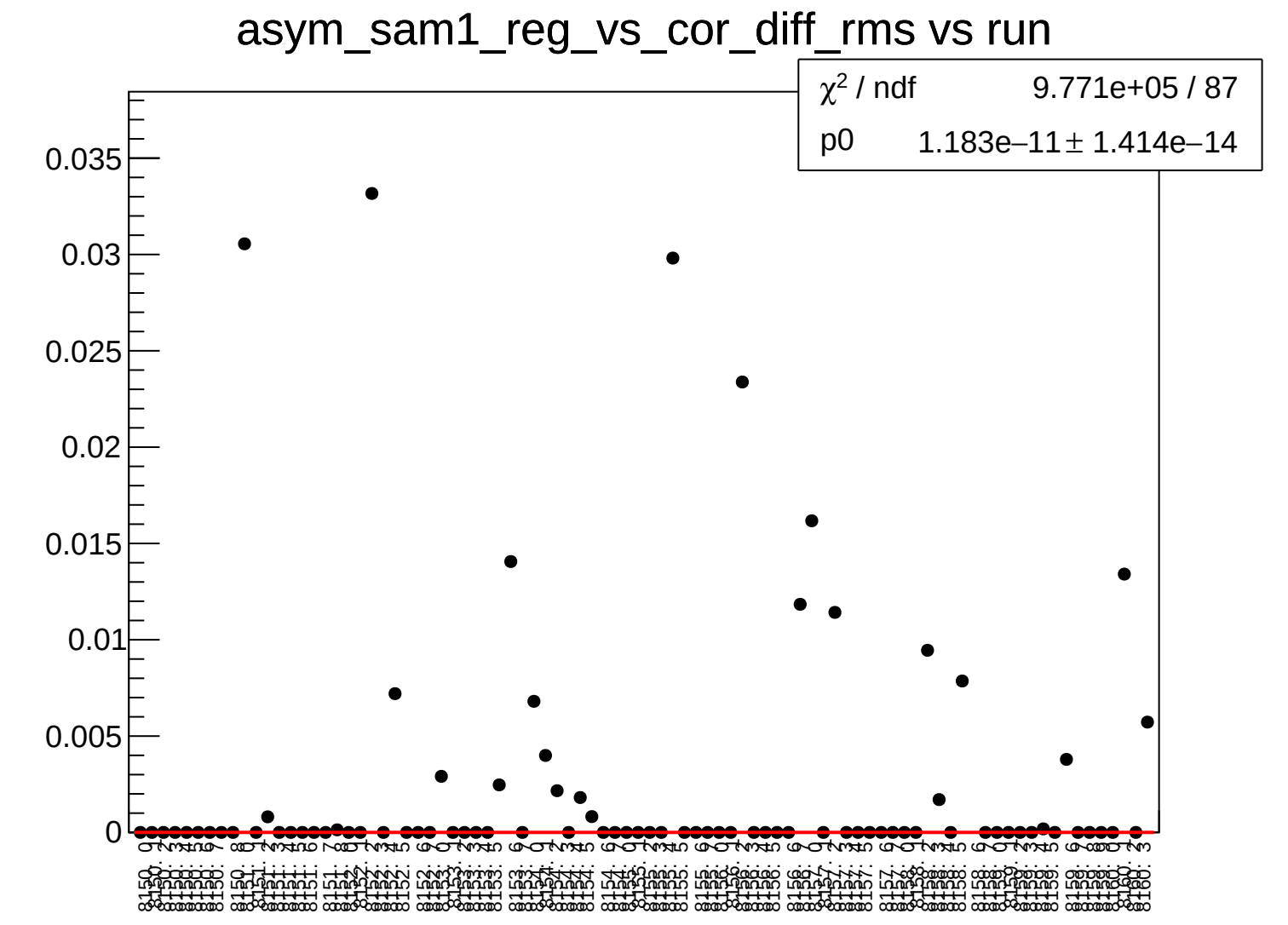

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 6872 / 87
p0 337.1 ± 0.2609
440
420
400
380
360
340
320
300
280

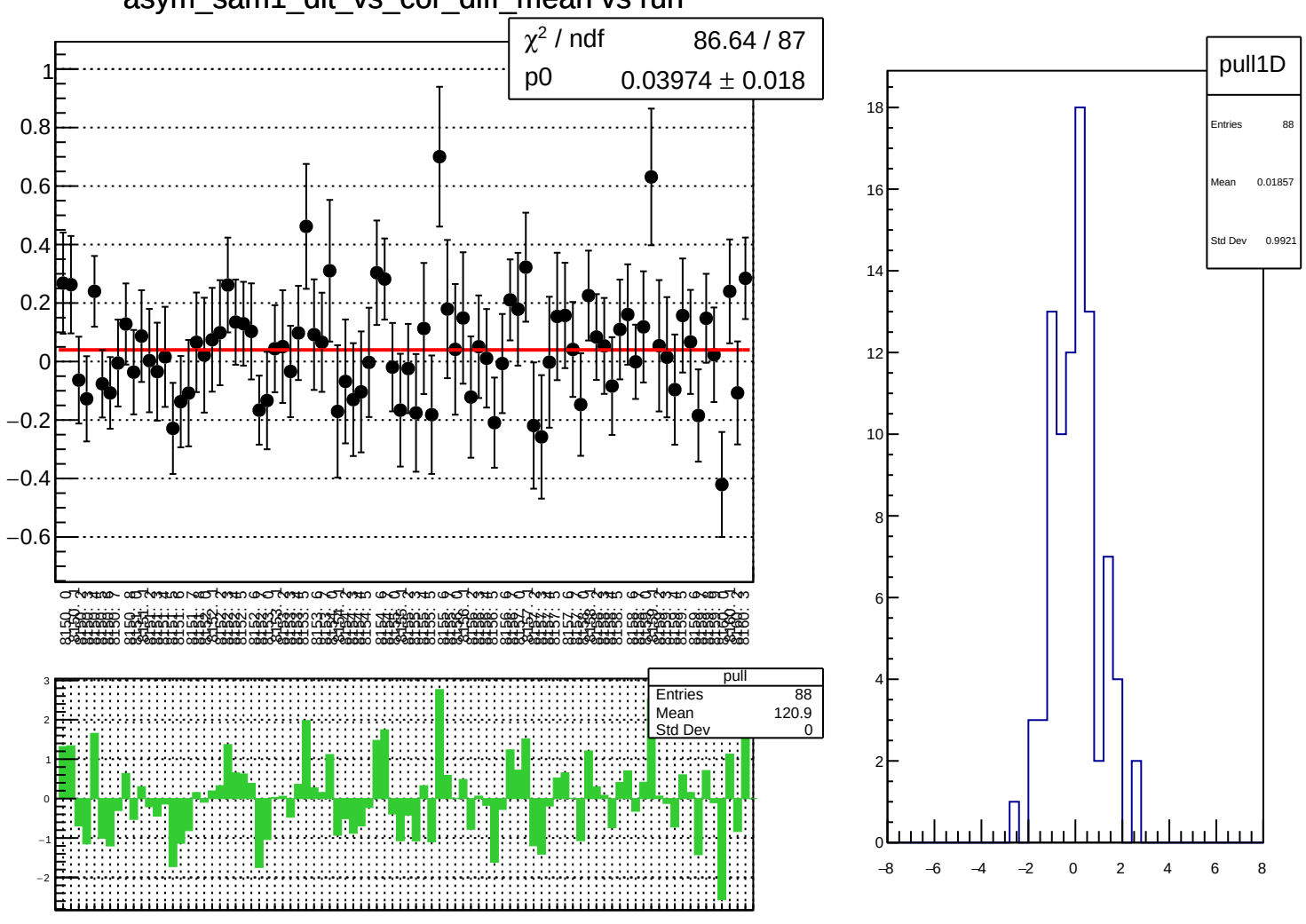

asym_sam1_mean vs run
χ² / ndf 82.53 / 87
p0 91.74 ± 366.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −458.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.007408
Std Dev 0.9684
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

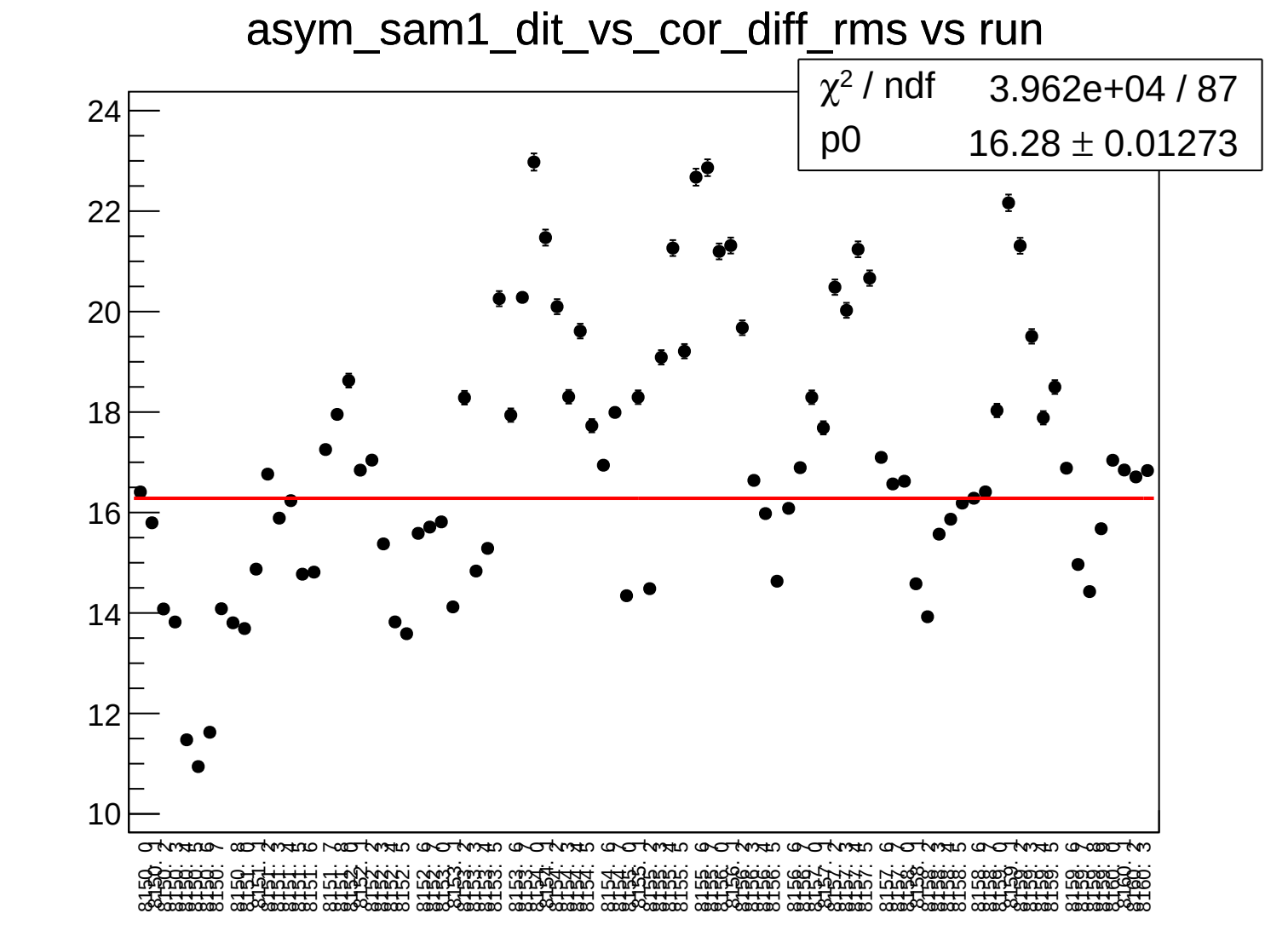

asym_sam1_rms vs run
χ² / ndf 6419 / 87
p0 334.6 ± 0.2589
420
400
380
360
340
320
300
280

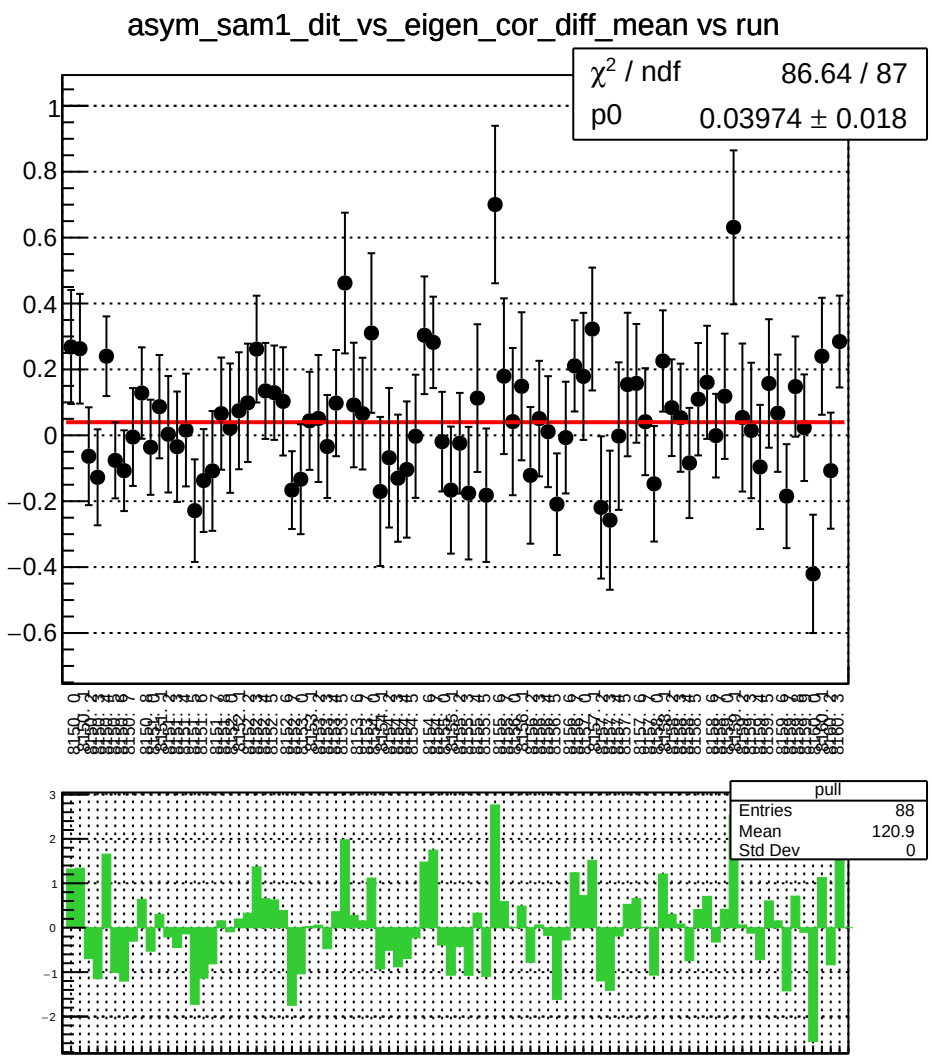

asym_sam1_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 78.98 / 87
p0 3.568e–15 ± 2e–14
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 88
Mean 68.49
Std Dev 0
2
1
0
−1
−2

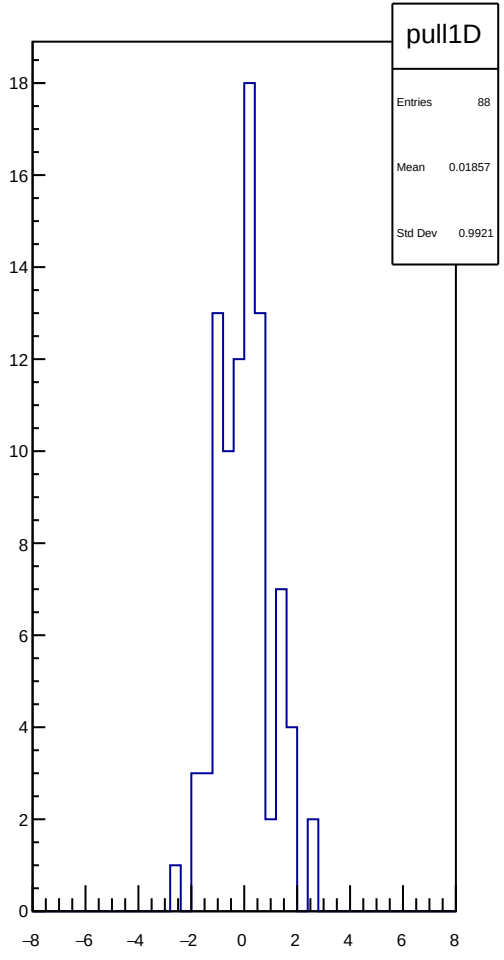

pull1D
Entries 88
Mean −0.173
Std Dev 0.9315
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

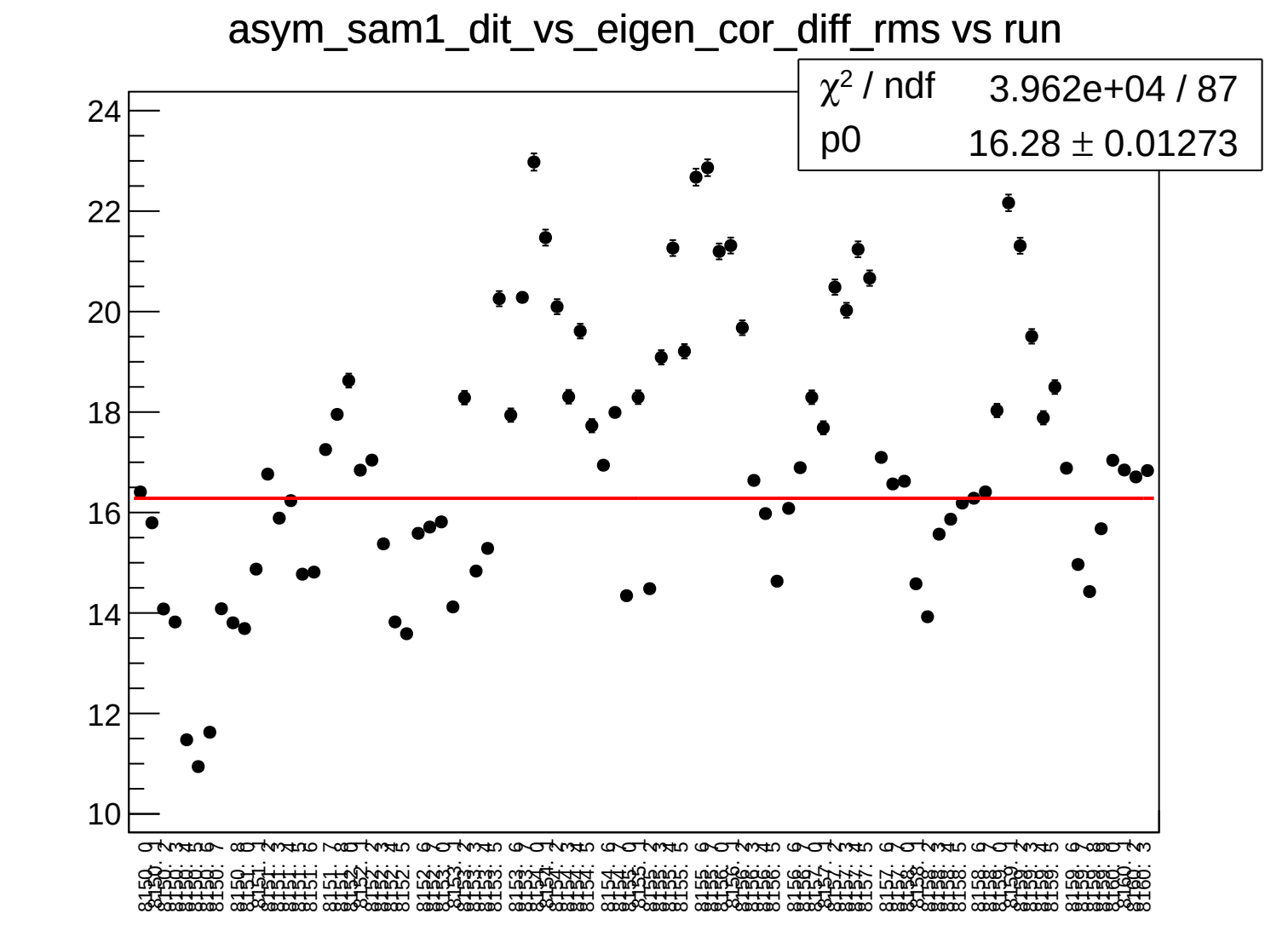

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.771e+05 / 87
p0 1.183e−11 ± 1.414e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

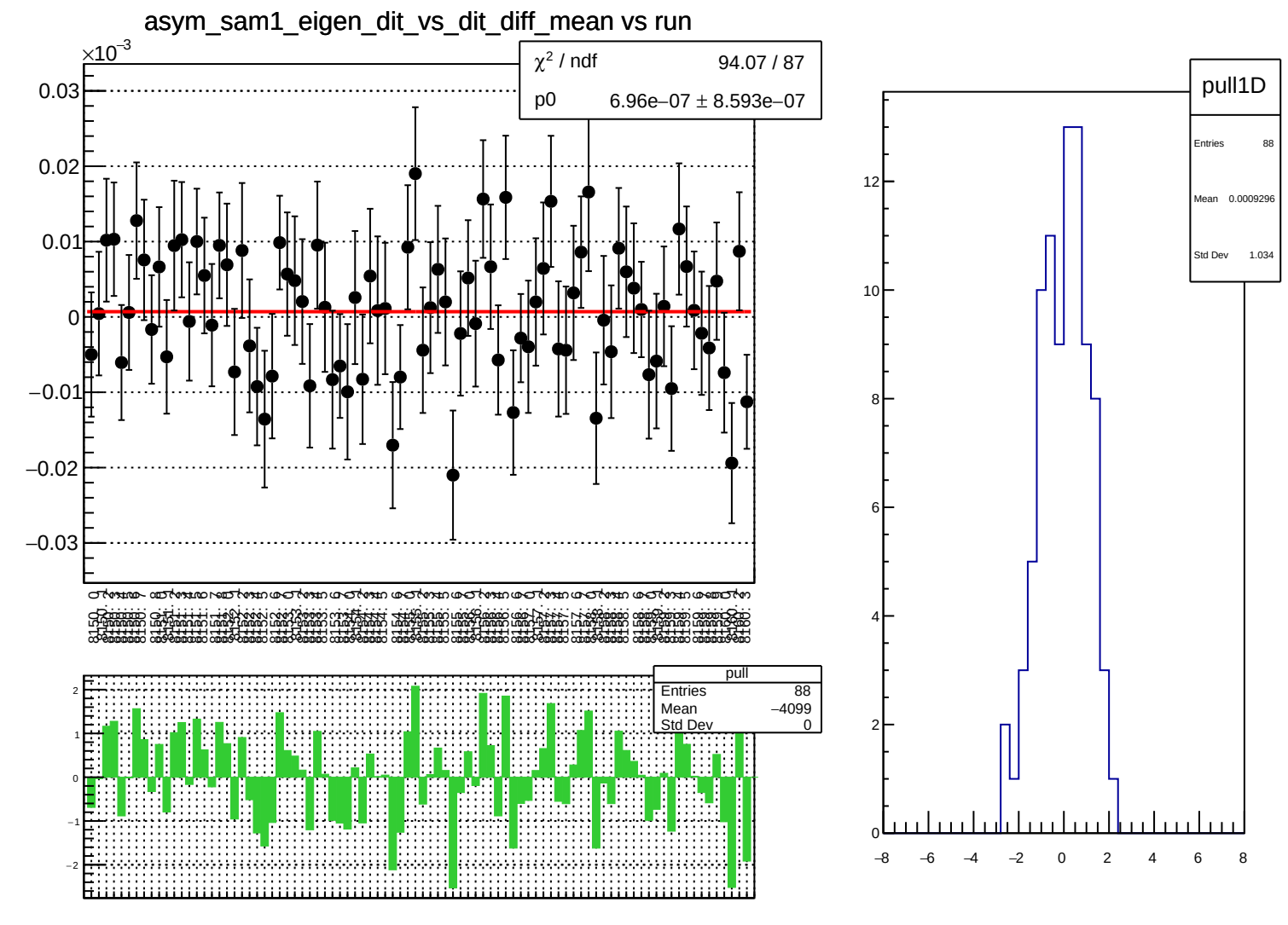

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 86.64 / 87
p0 0.03974 ± 0.018
pull
Entries 88
Mean 120.9
Std Dev 0
pull1D
Entries 88
Mean 0.01857
Std Dev 0.9921

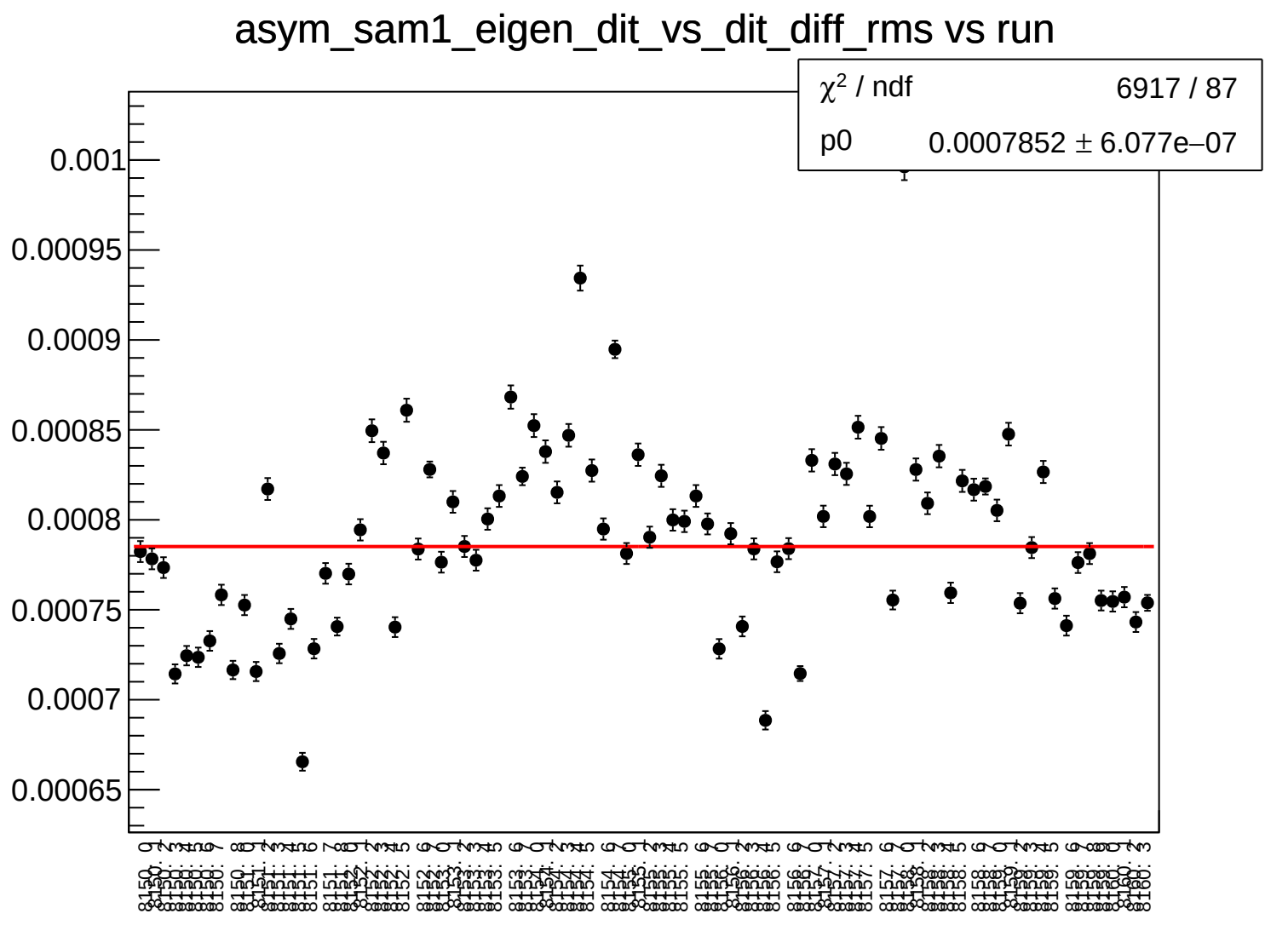

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.962e+04 / 87
p0 16.28 ± 0.01273
24
22
20
18
16
14
12
10

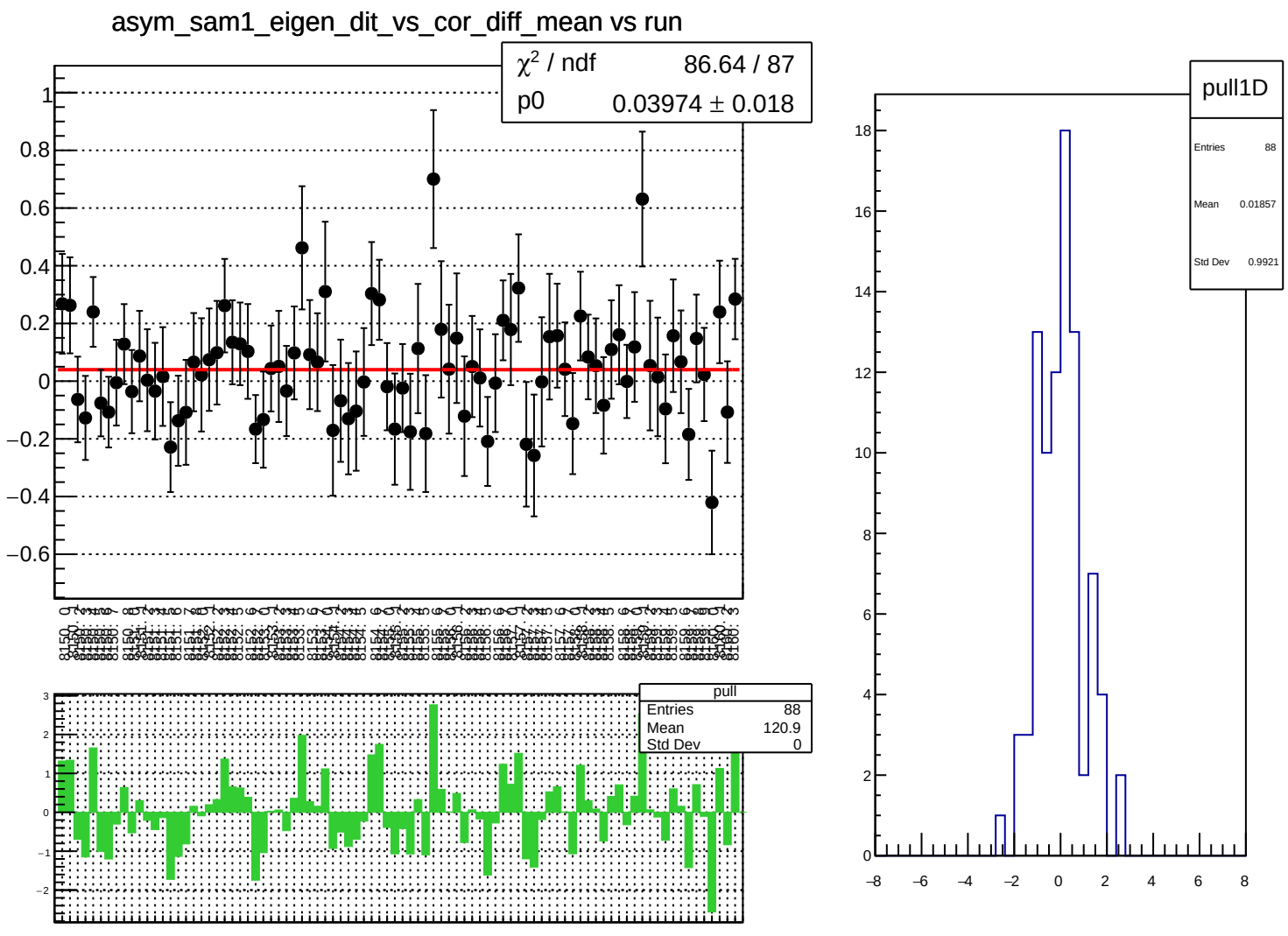

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.64 / 87
p0 0.03974 ± 0.018
pull
Entries 88
Mean 120.9
Std Dev 0

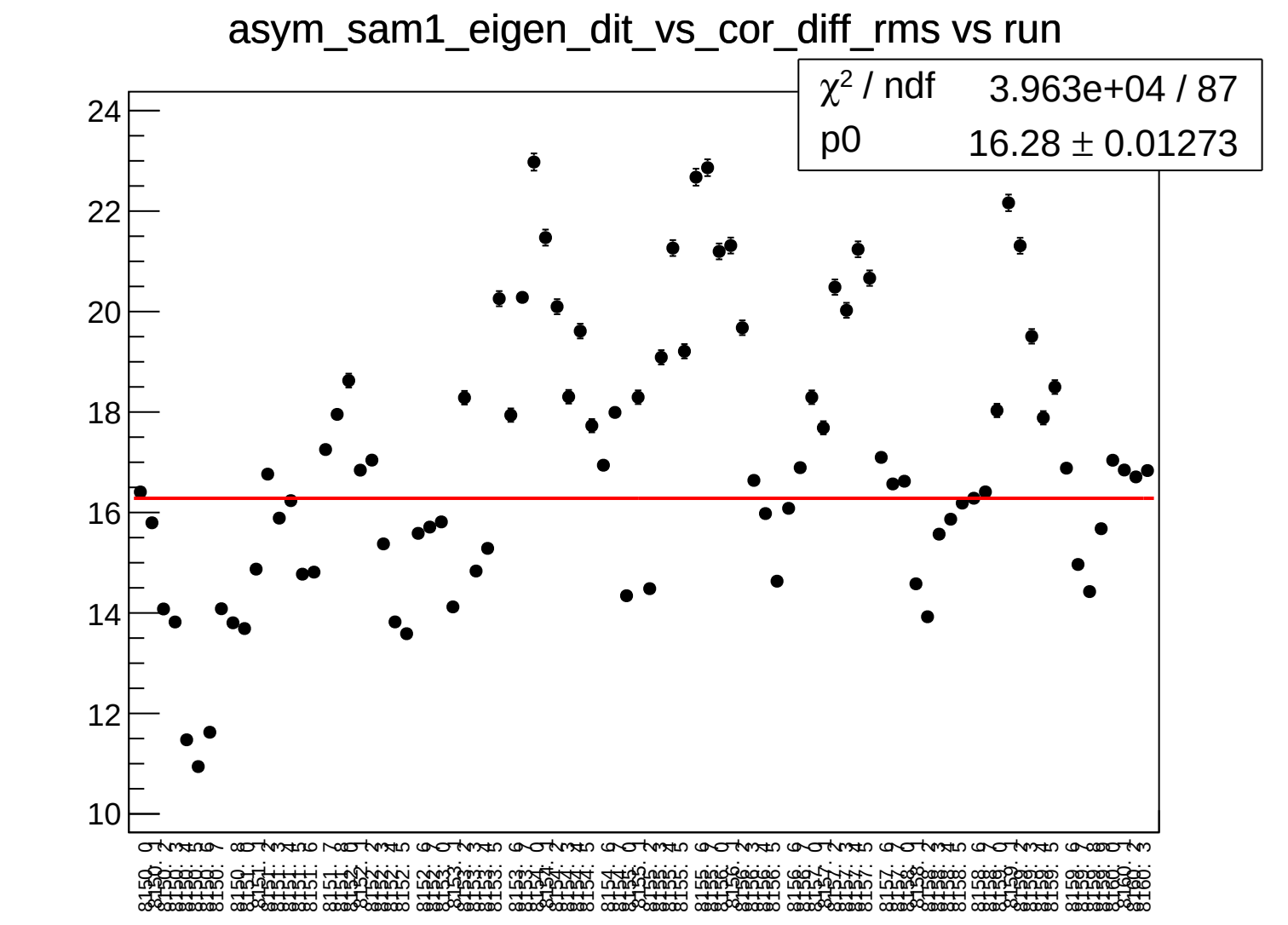

pull1D
Entries 88
Mean 0.01857
Std Dev 0.9921

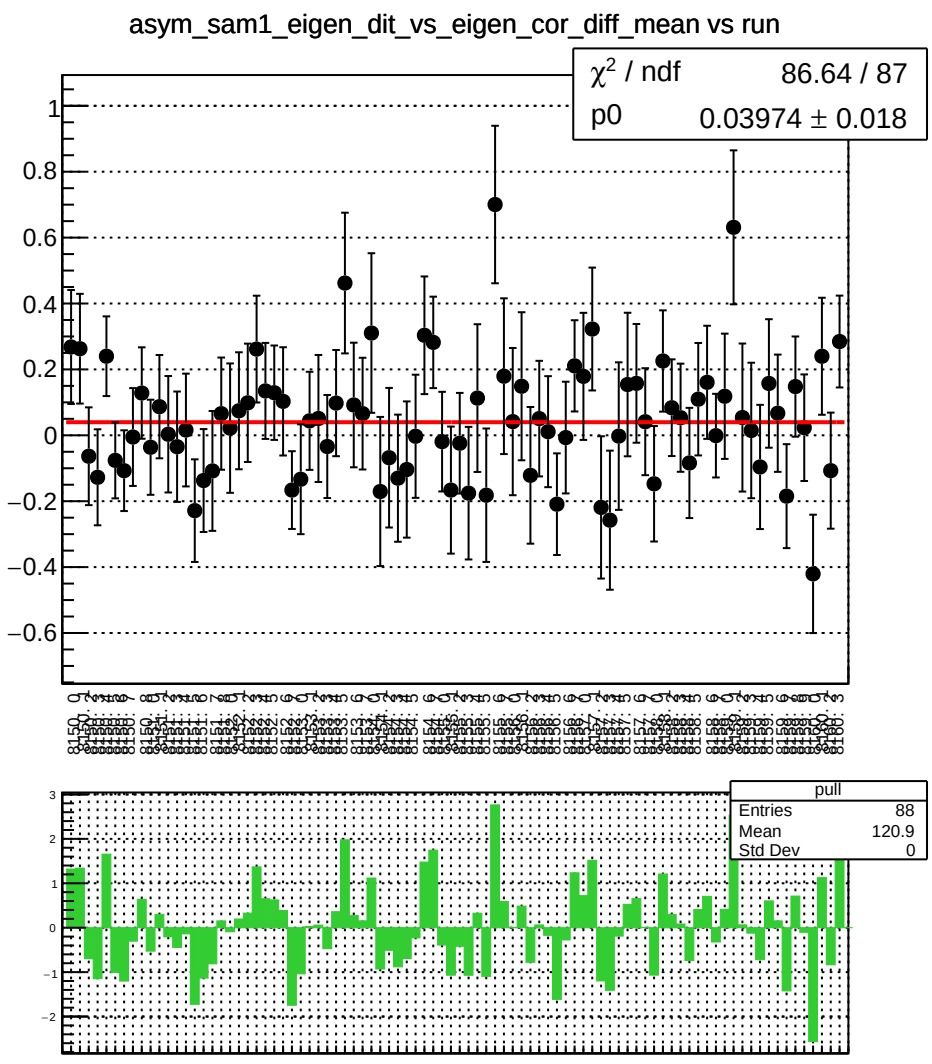

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.962e+04 / 87
p0 16.28 ± 0.01273
24
22
20
18
16
14
12
10

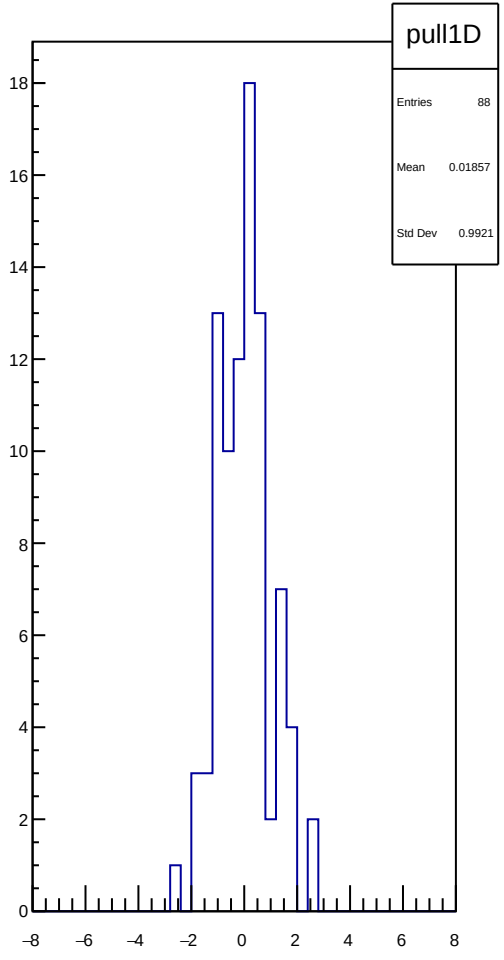

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.07 / 87
p0 6.96e−07 ± 8.593e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean −4099
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0009296
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

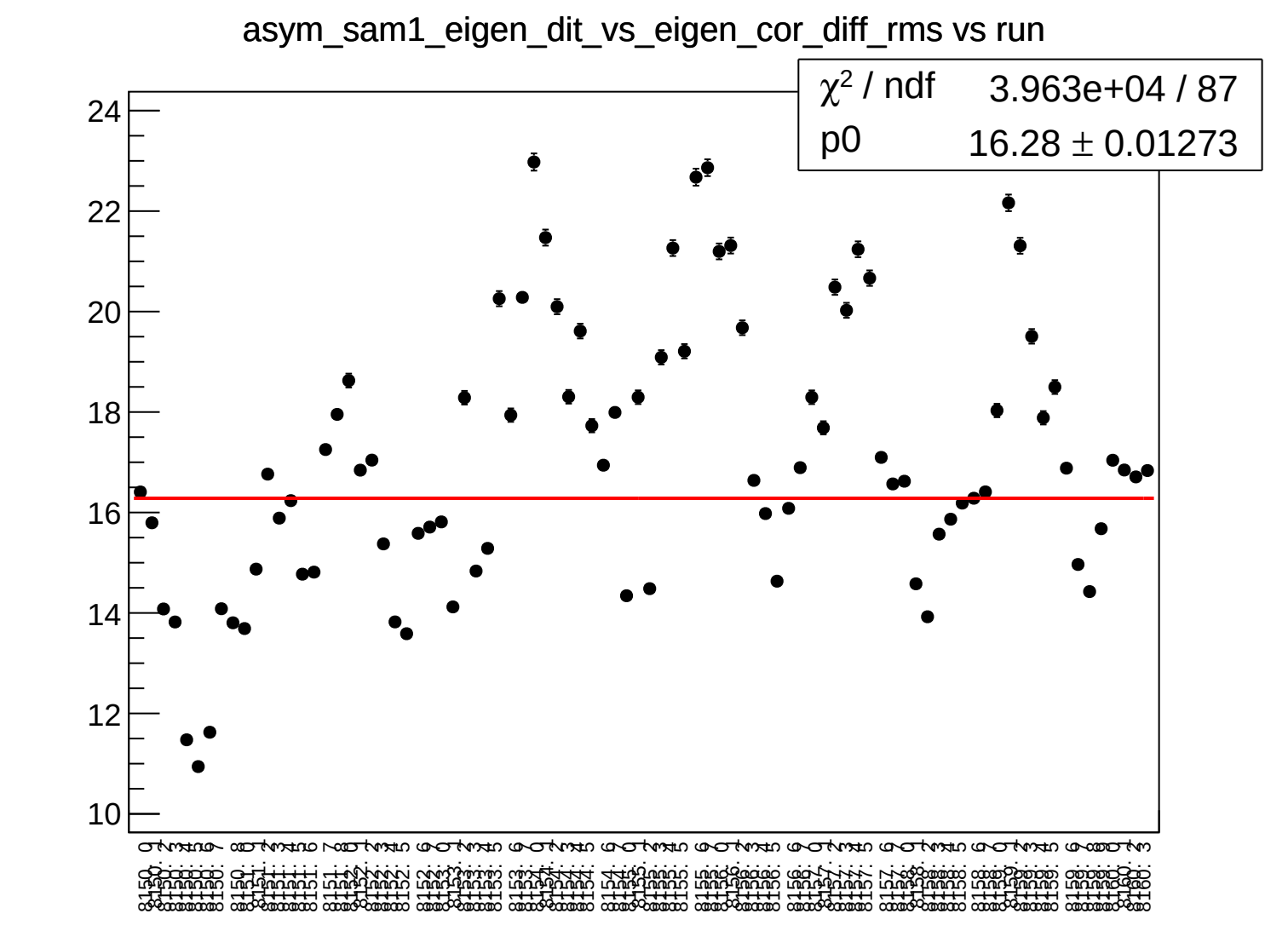

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6917 / 87
p0 0.0007852 ± 6.077e−07
0.001
0.00095
0.0009
0.00085
0.0008
0.00075
0.0007
0.00065

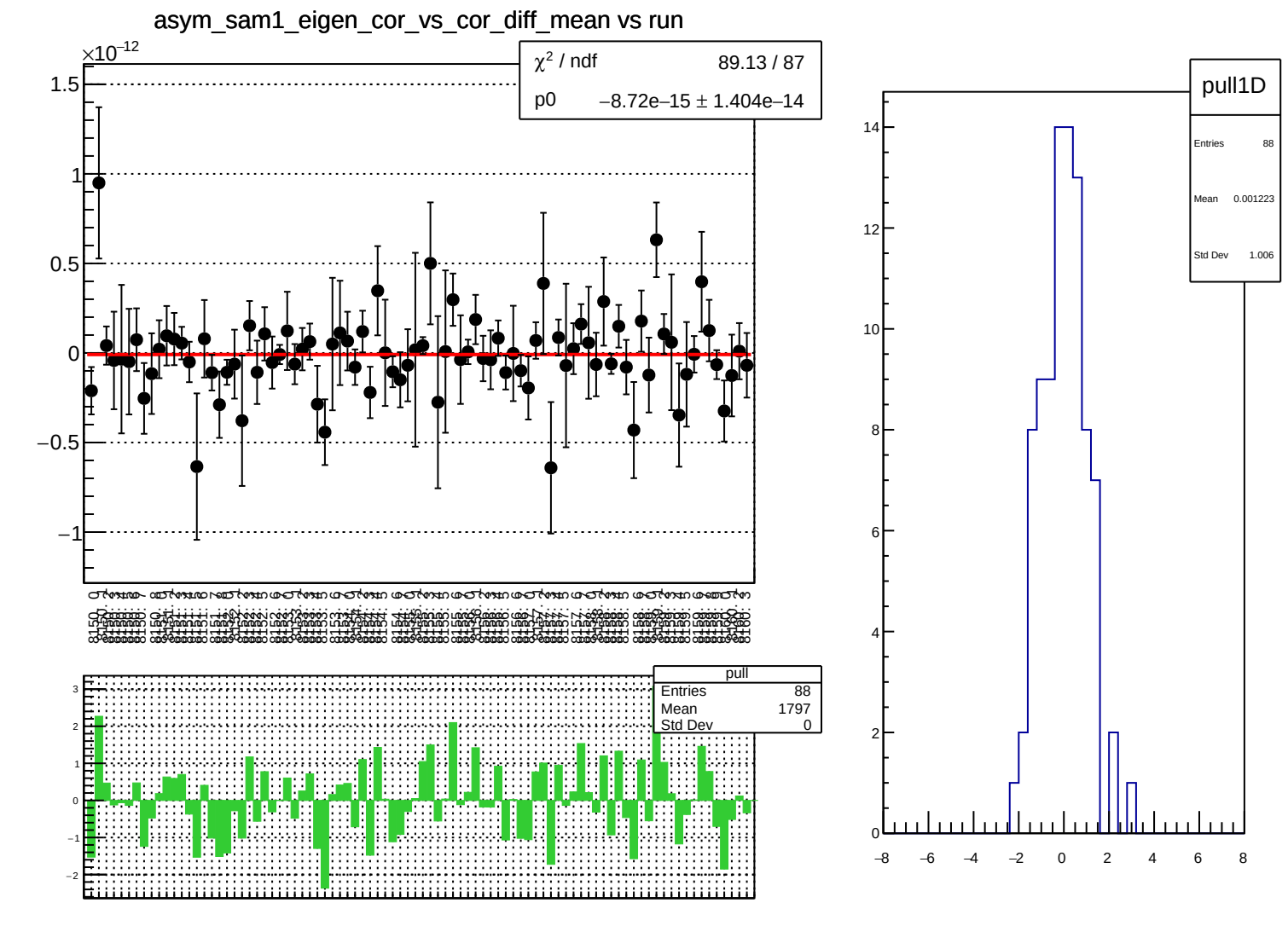

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.64 / 87
p0 0.03974 ± 0.018
pull
Entries 88
Mean 120.9
Std Dev 0
pull1D
Entries 88
Mean 0.01857
Std Dev 0.9921

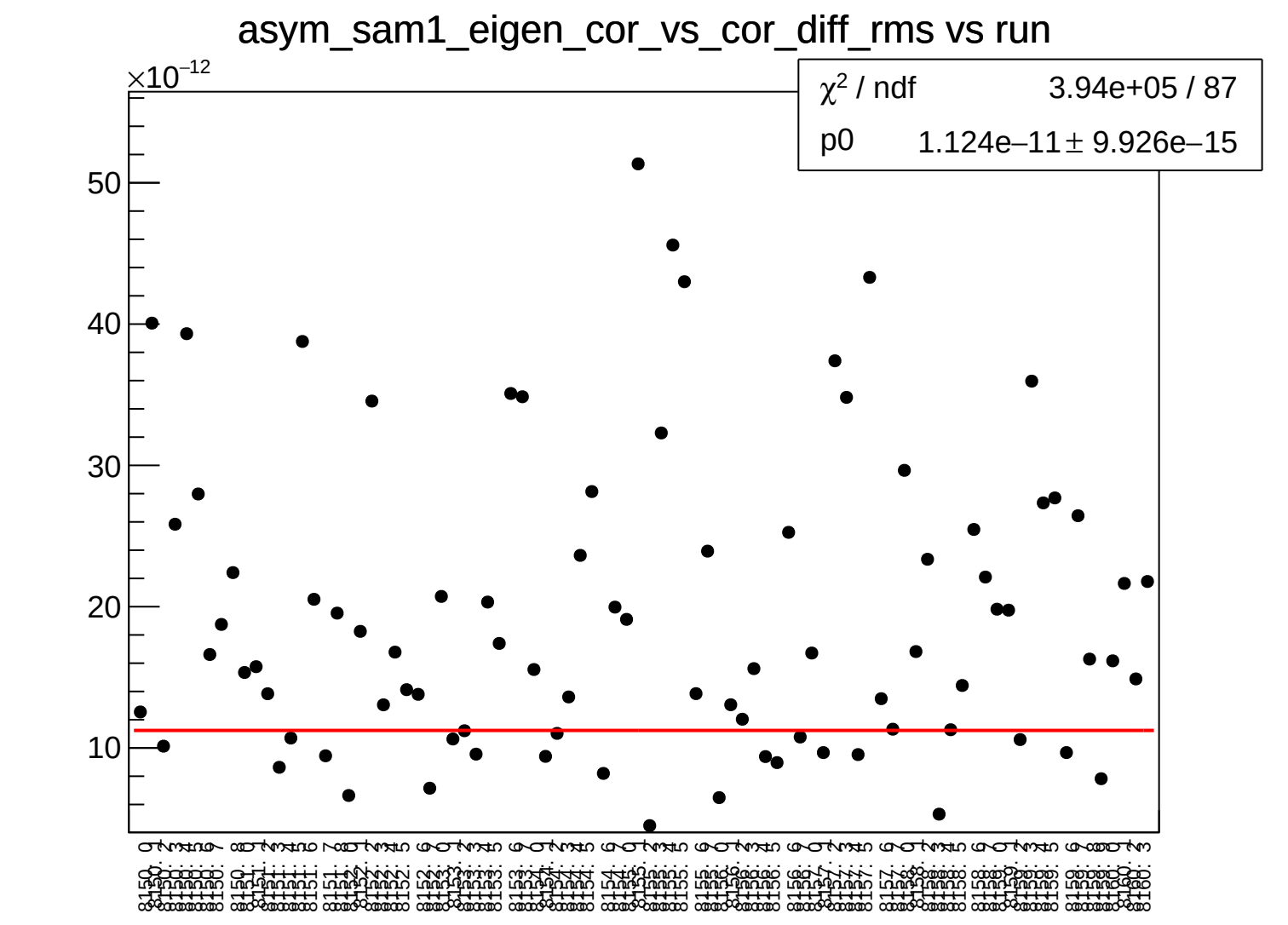

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.963e+04 / 87
p0 16.28 ± 0.01273
24
22
20
18
16
14
12
10

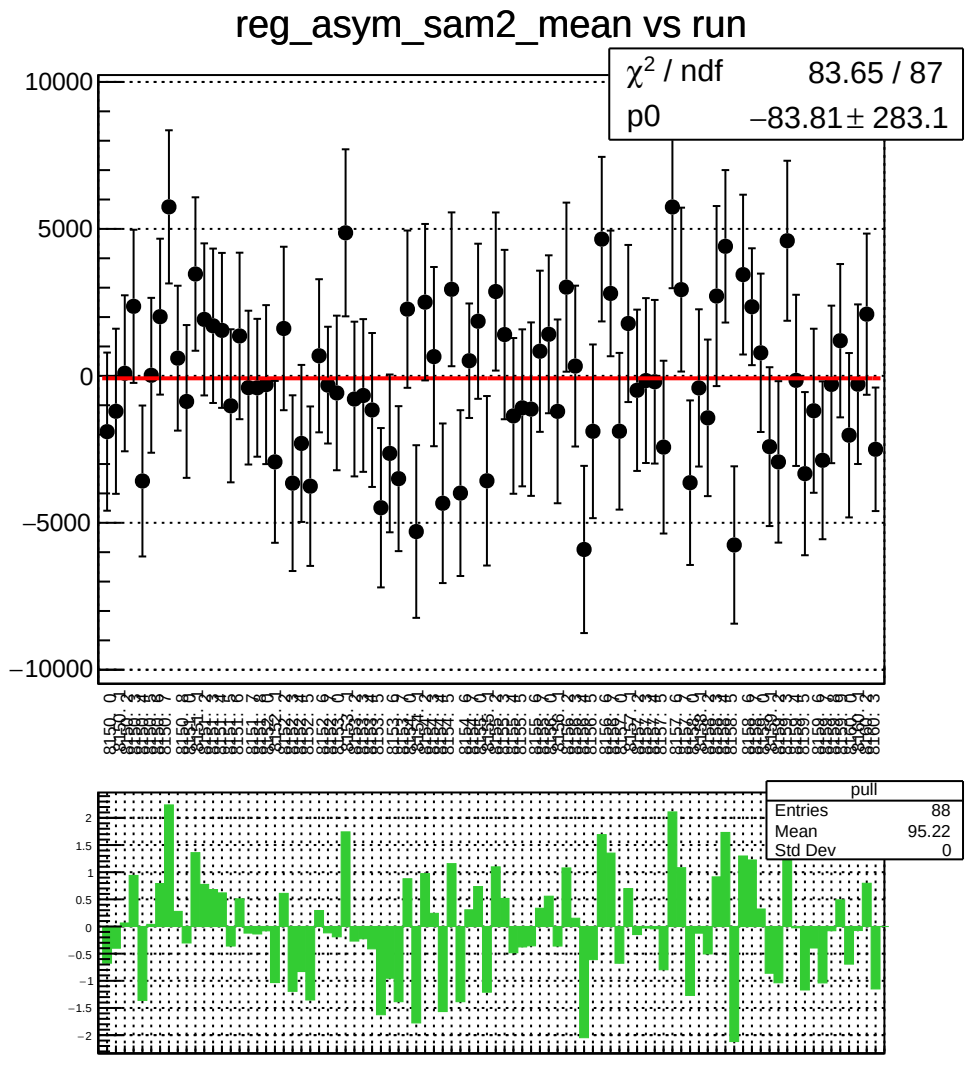

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.64 / 87
p0 0.03974 ± 0.018
pull
Entries 88
Mean 120.9
Std Dev 0

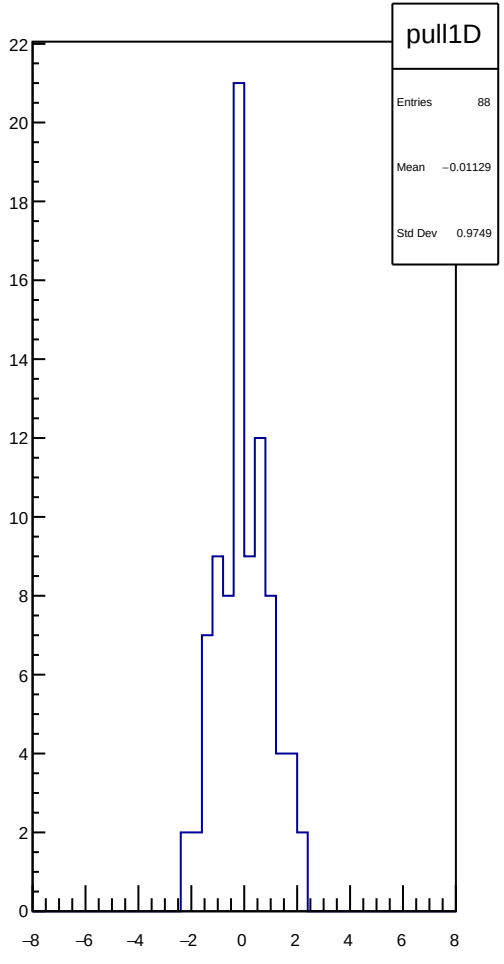

pull1D
Entries 88
Mean 0.01857
Std Dev 0.9921


asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.963e+04 / 87
p0 16.28 ± 0.01273
24
22
20
18
16
14
12
10


asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.13 / 87
p0 −8.72e−15 ± 1.404e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 88
Mean 1797
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001223
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.94e+05 / 87
p0 1.124e−11 ± 9.926e−15
50
40
30
20
10


reg_asym_sam2_mean vs run
χ² / ndf 83.65 / 87
p0 −83.81 ± 283.1
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 95.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean −0.01129
Std Dev 0.9749
22
20
18
16
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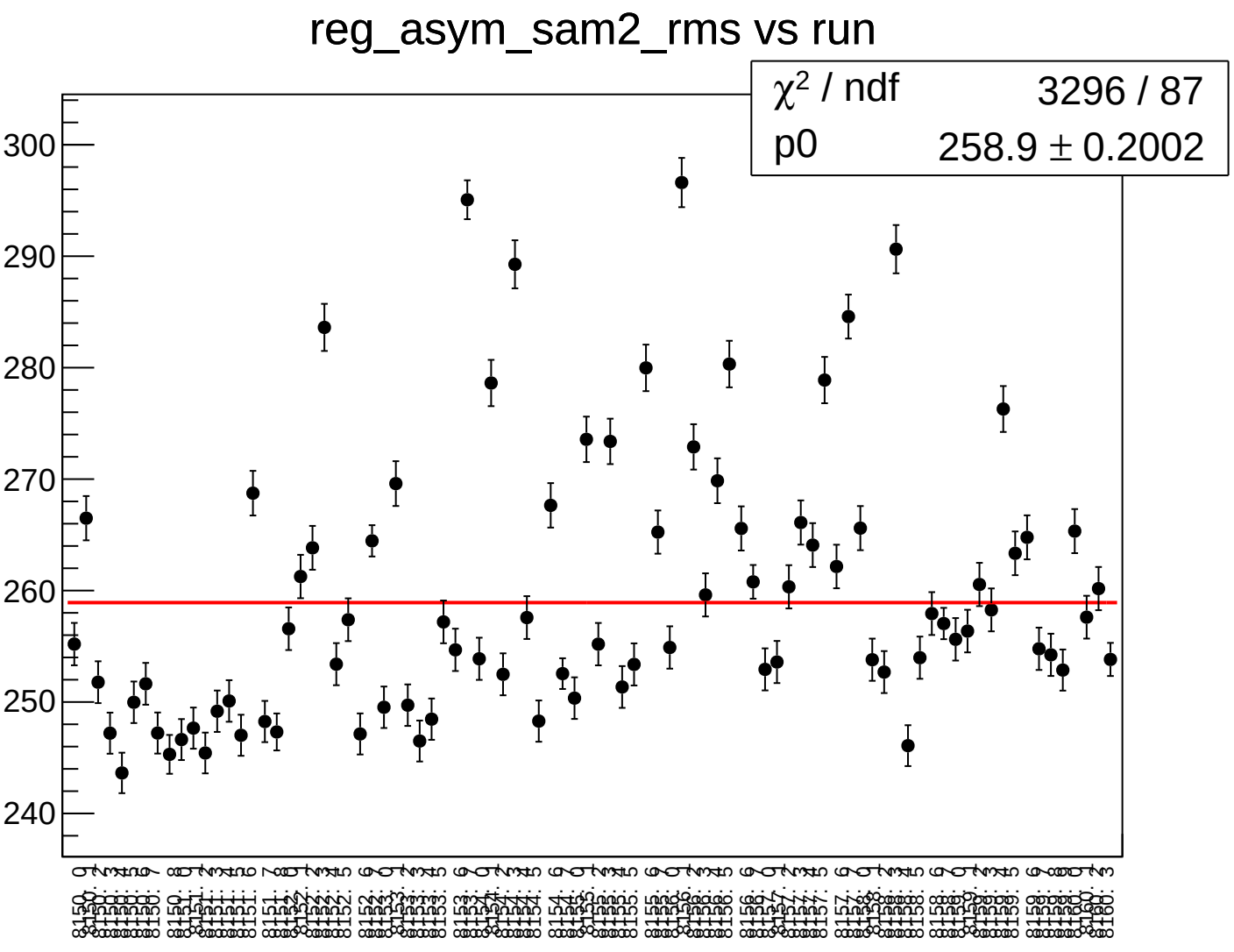
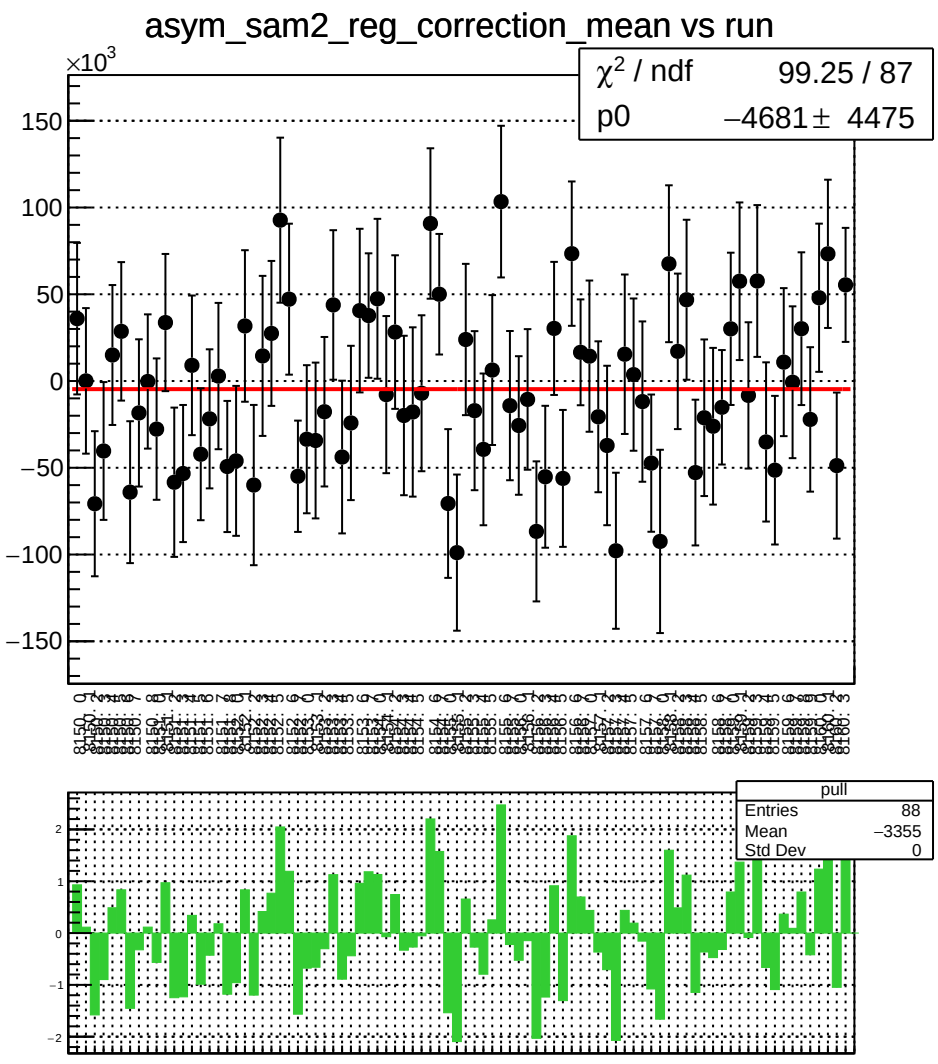
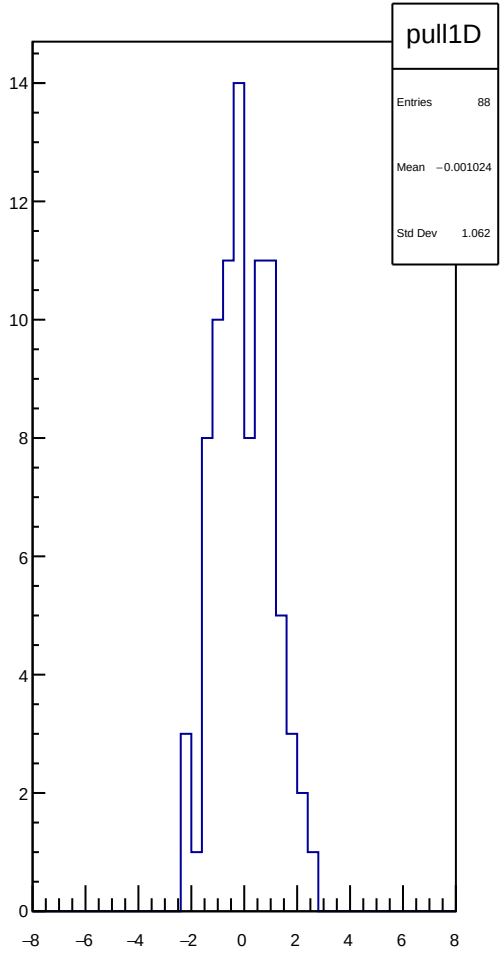
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam2_rms vs run
χ² / ndf 3296 / 87
p0 258.9 ± 0.2002
300
290
280
270
260
250
240


asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 99.25 / 87
p0 −4681 ± 4475
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −3355
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.001024
Std Dev 1.062
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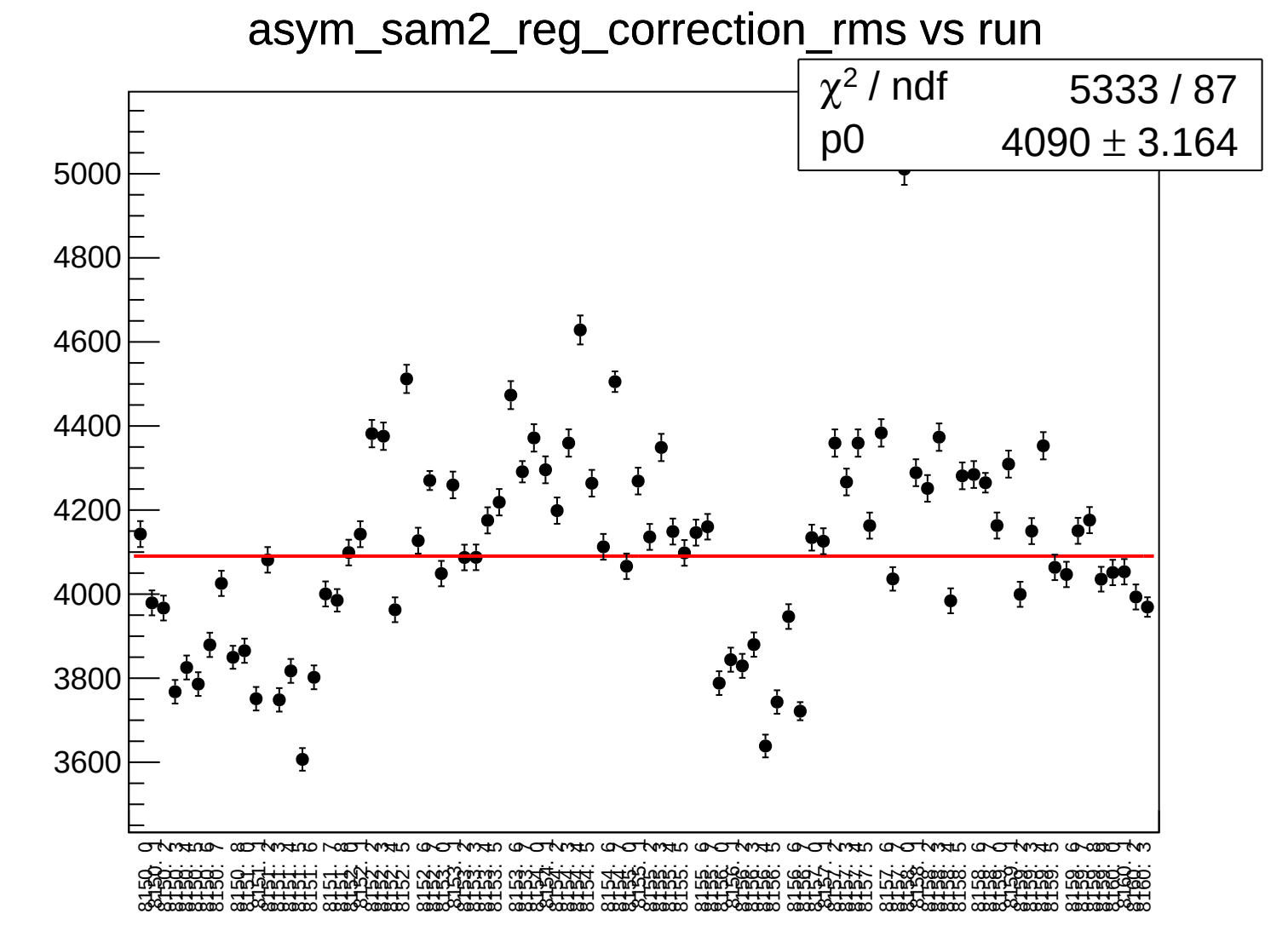
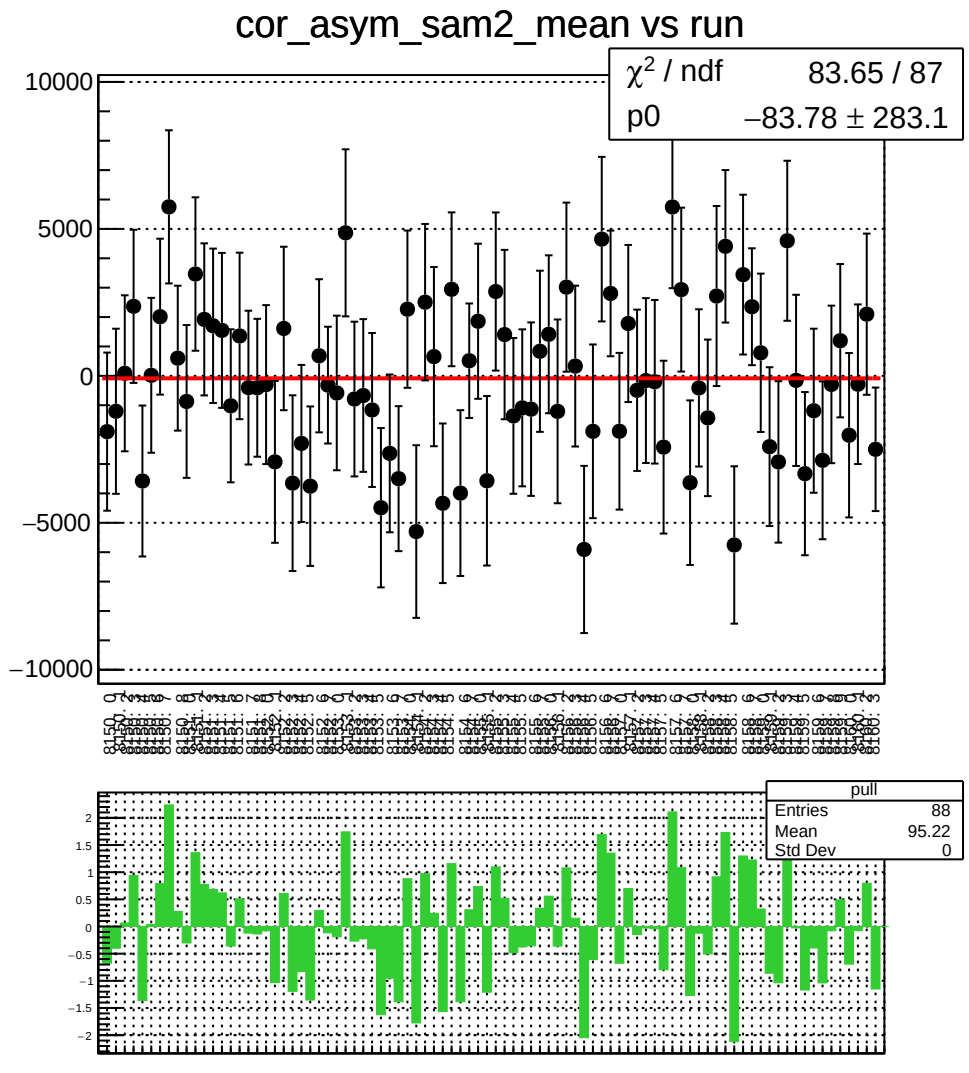
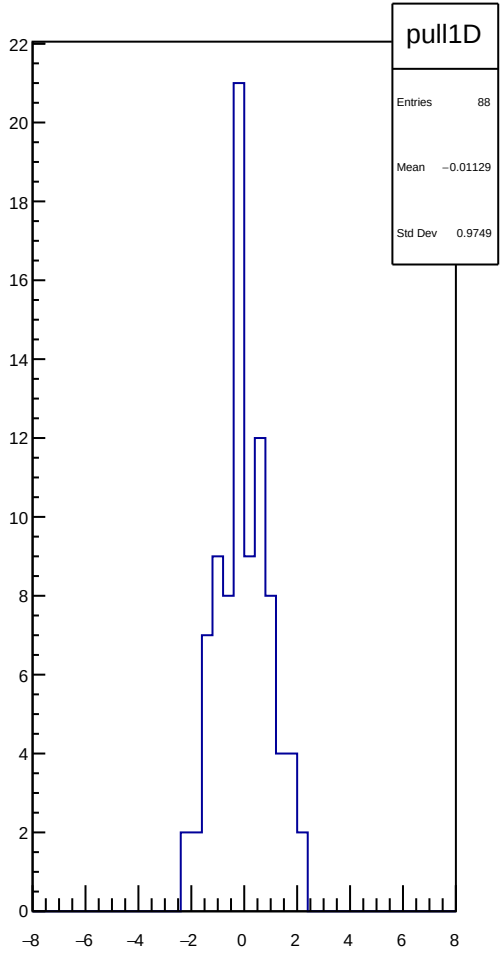
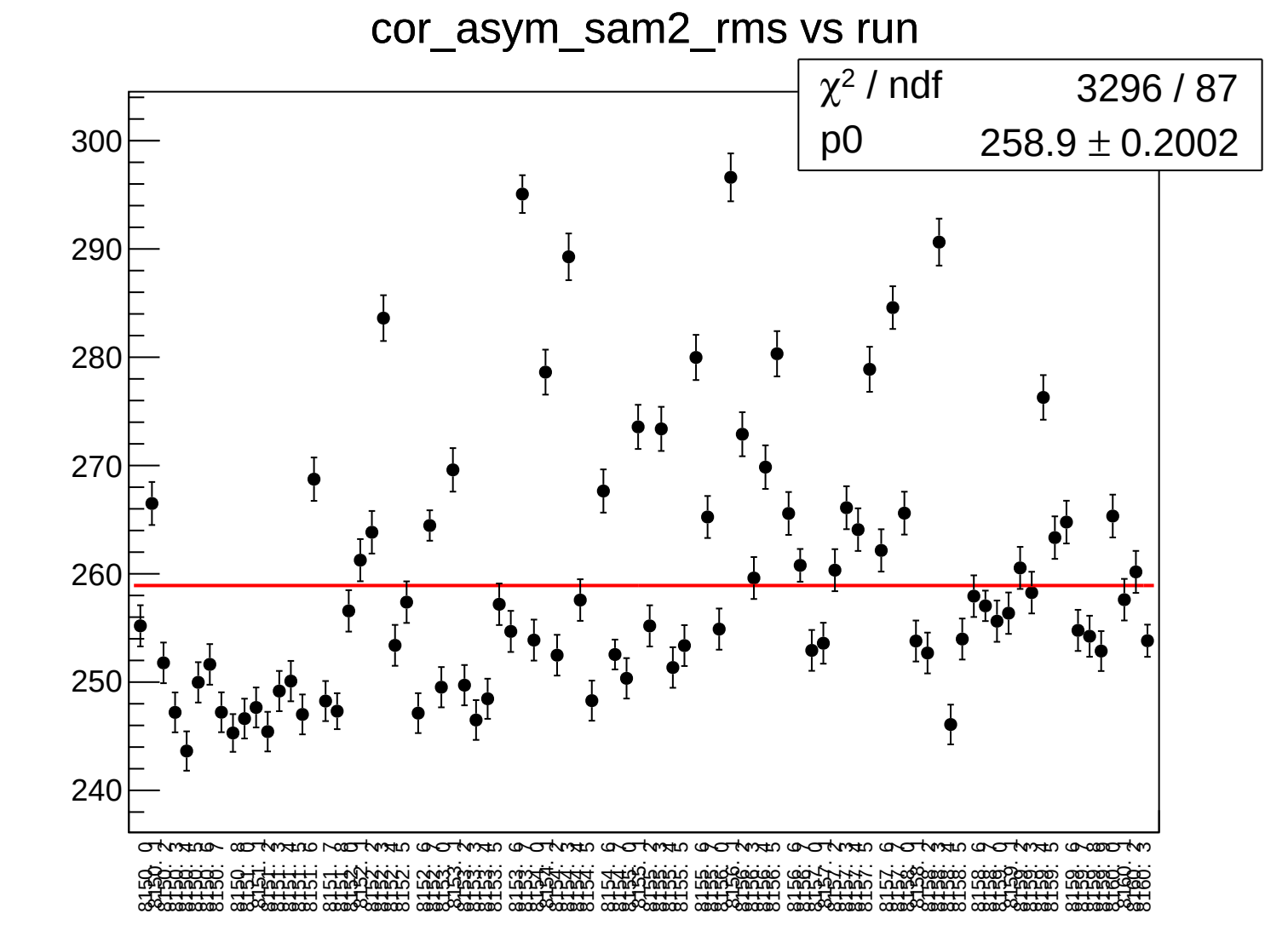
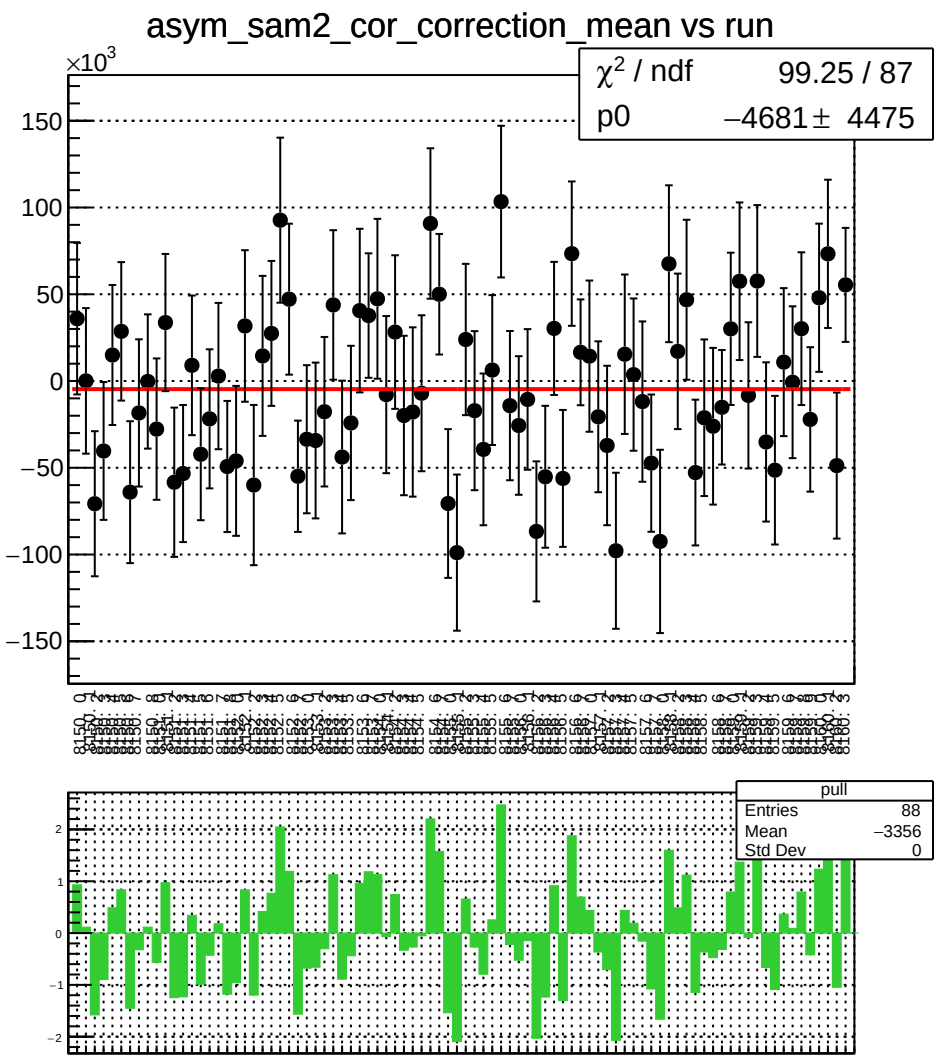
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

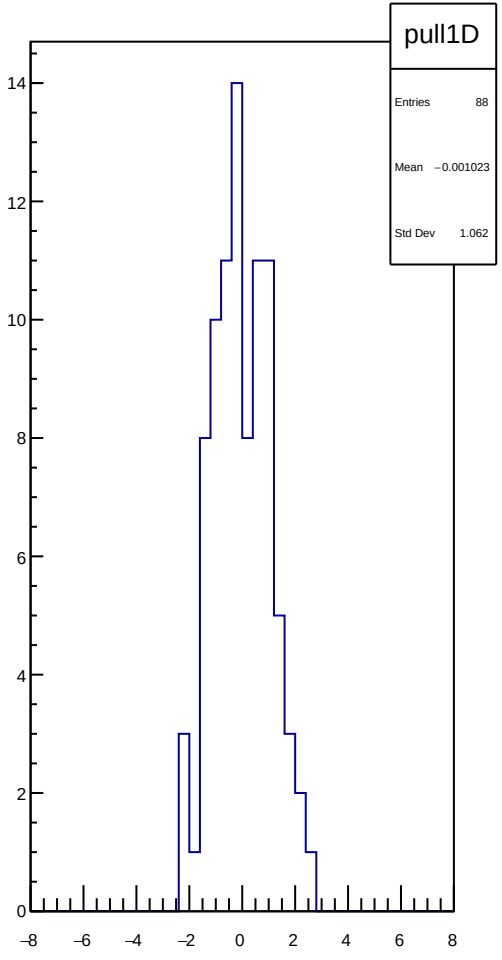

asym_sam2_reg_correction_rms vs run
χ² / ndf 5333 / 87
p0 4090 ± 3.164
5000
4800
4600
4400
4200
4000
3800
3600


cor_asym_sam2_mean vs run
χ² / ndf 83.65 / 87
p0 −83.78 ± 283.1
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 95.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean −0.01129
Std Dev 0.9749
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam2_rms vs run
χ² / ndf 3296 / 87
p0 258.9 ± 0.2002
300
290
280
270
260
250
240


asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 99.25 / 87
p0 −4681 ± 4475
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −3356
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.001023
Std Dev 1.062
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10
8
6
4
2
0
−8
−6
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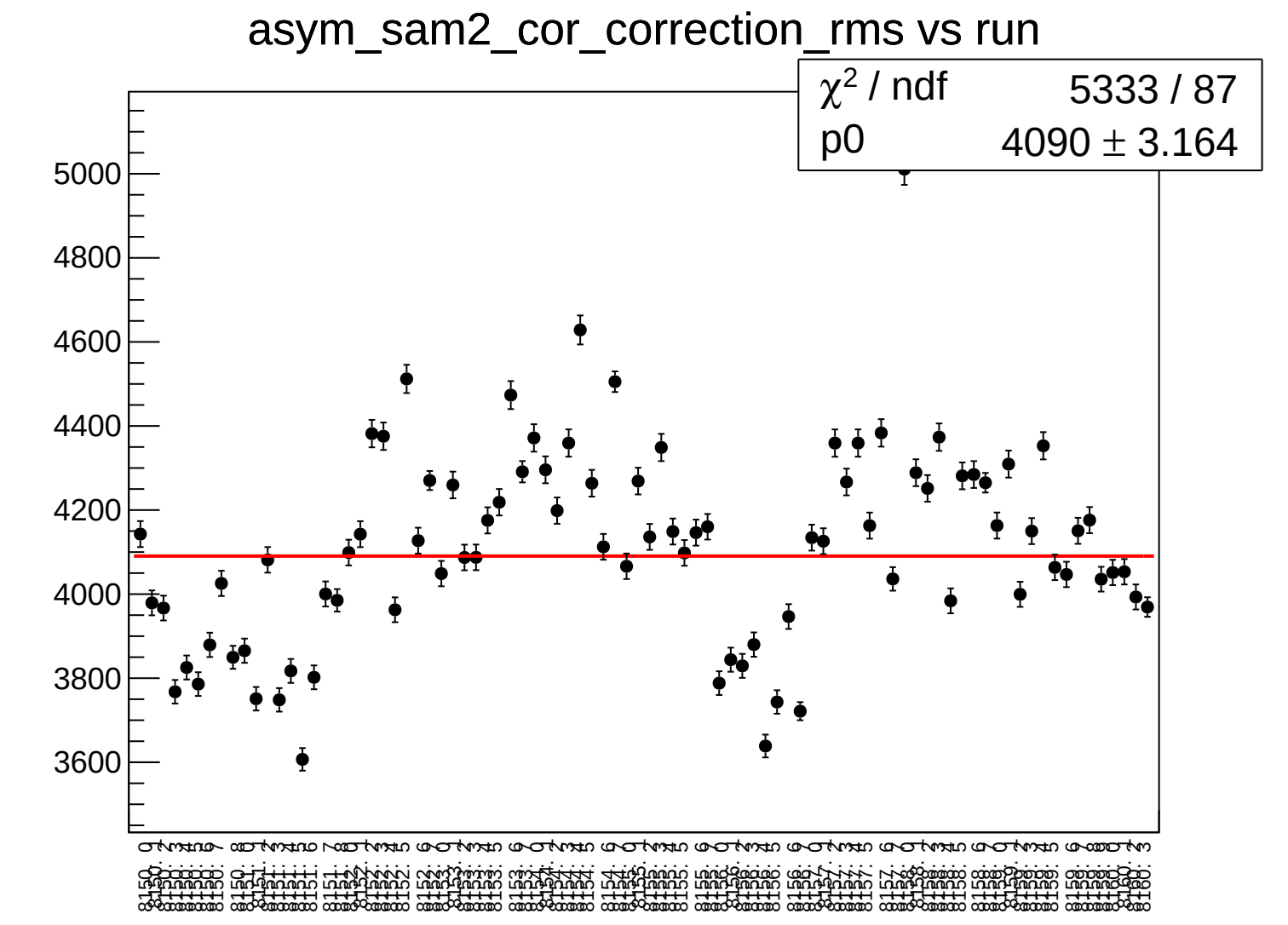
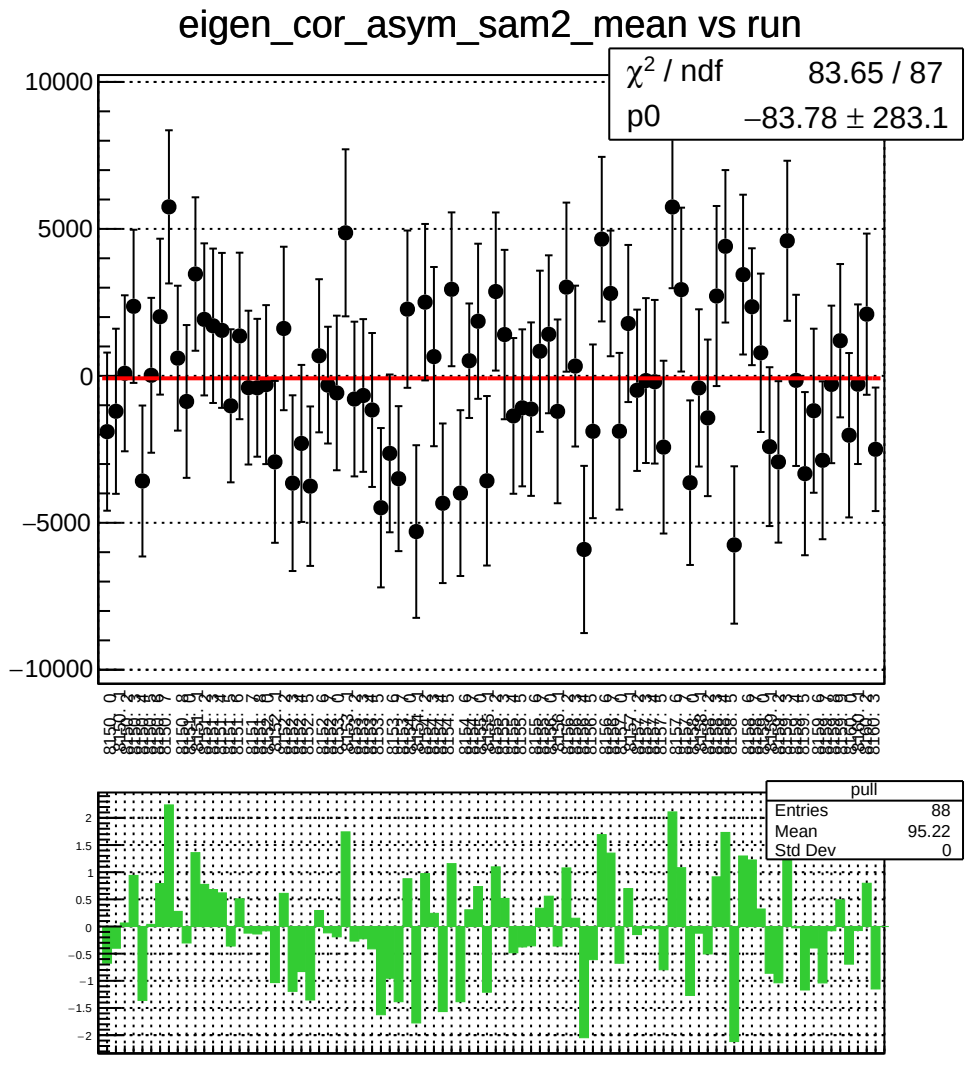
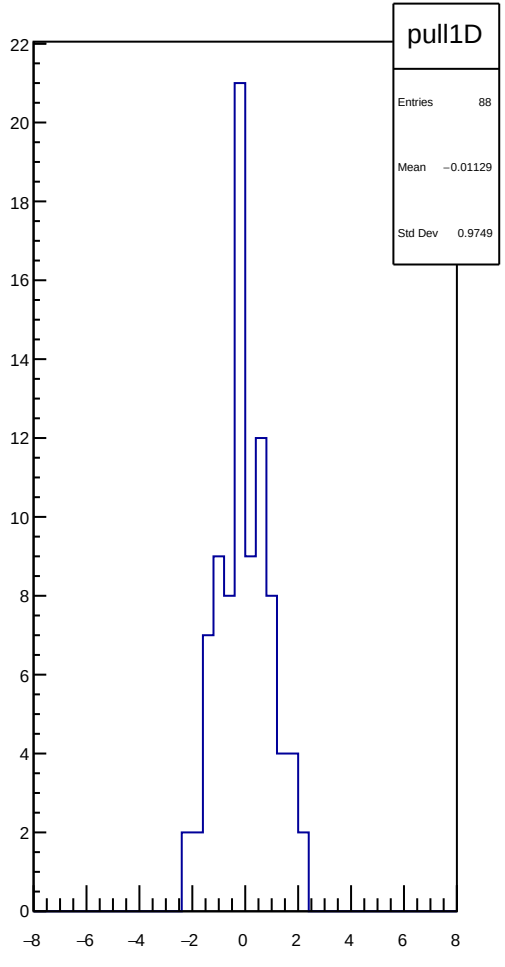
2
4
6
8


asym_sam2_cor_correction_rms vs run
χ² / ndf 5333 / 87
p0 4090 ± 3.164
5000
4800
4600
4400
4200
4000
3800
3600


eigen_cor_asym_sam2_mean vs run
χ² / ndf 83.65 / 87
p0 −83.78 ± 283.1
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 95.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean −0.01129
Std Dev 0.9749
22
20
18
16
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10
8
6
4
2
0
−8
−6
−4
−2
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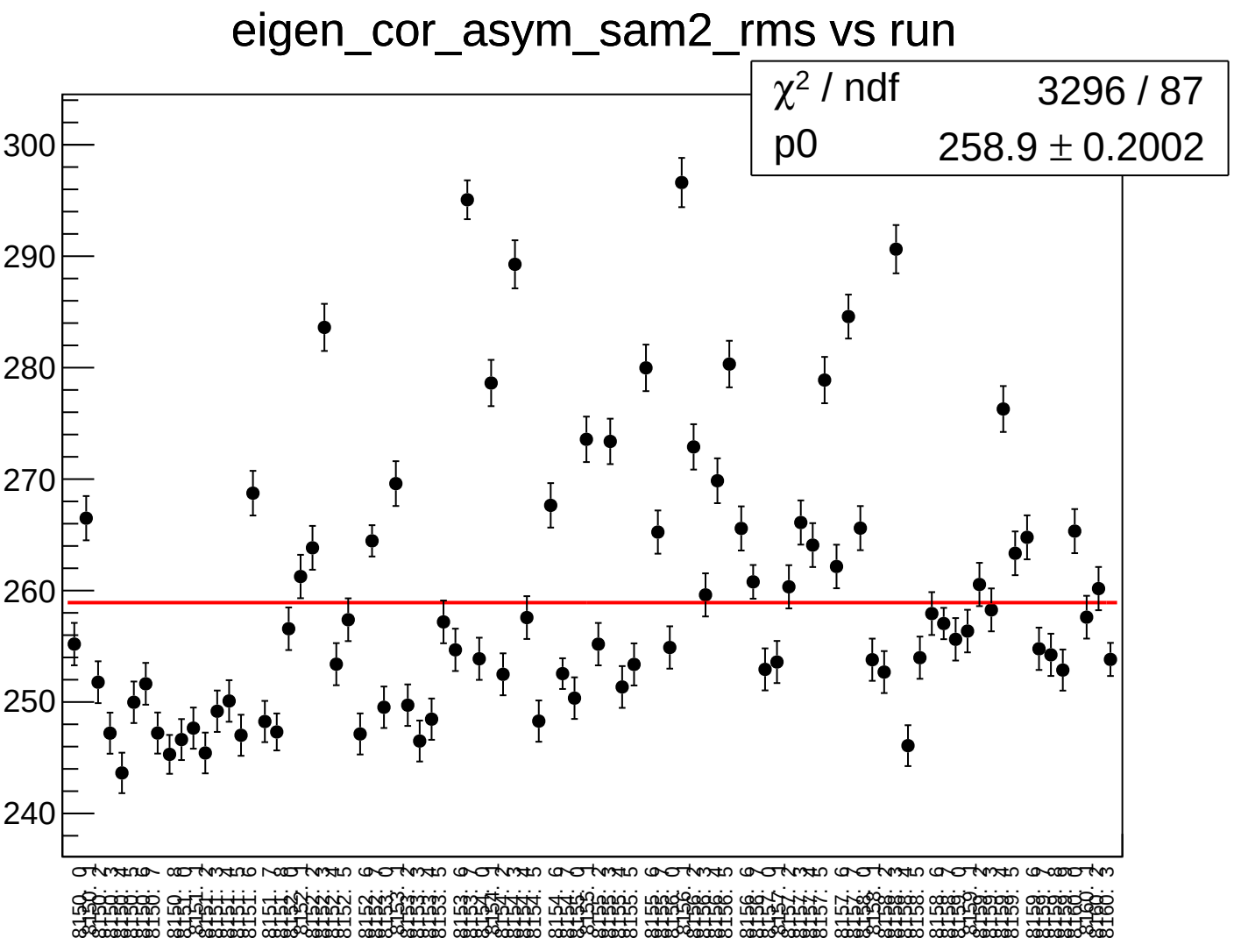
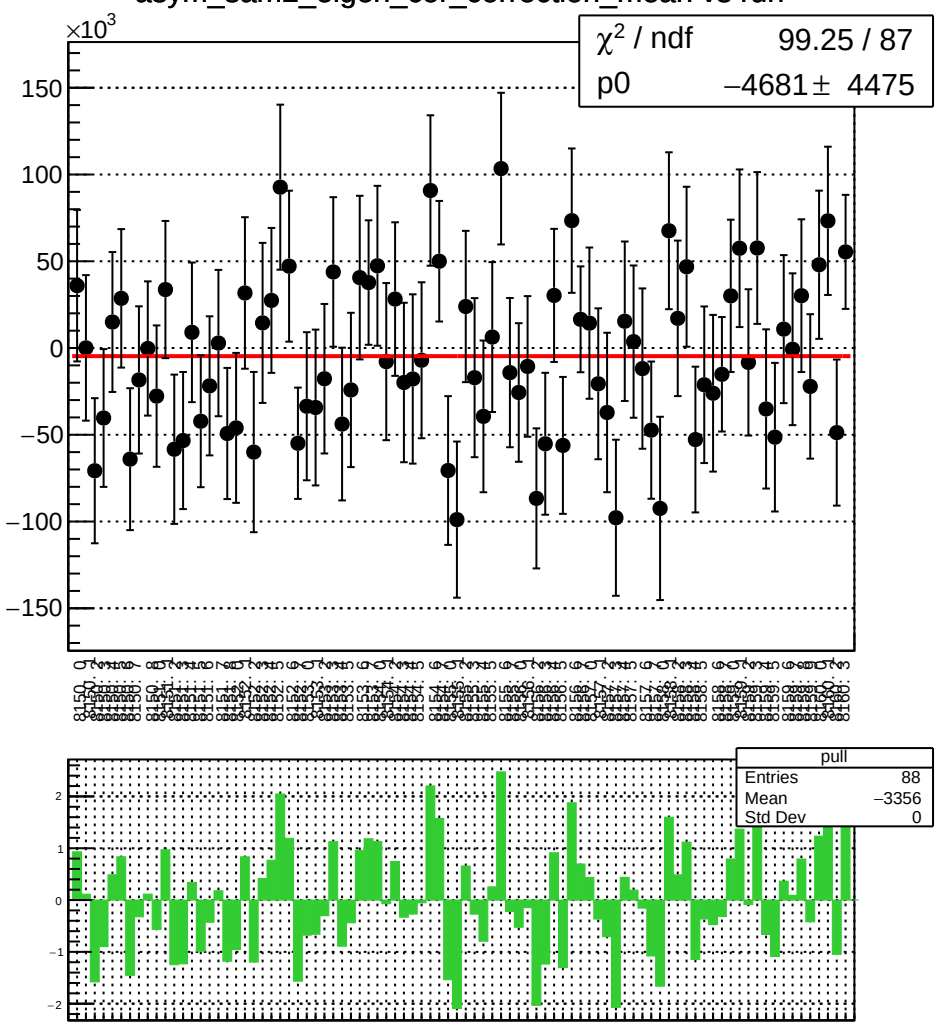
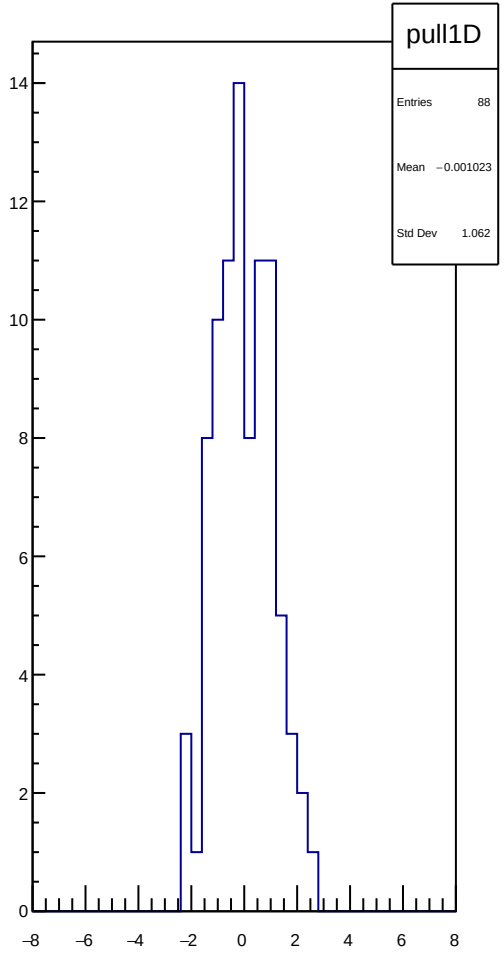
2
4
6
8


eigen_cor_asym_sam2_rms vs run
χ² / ndf 3296 / 87
p0 258.9 ± 0.2002
300
290
280
270
260
250
240


asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 99.25 / 87
p0 −4681 ± 4475
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −3356
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.001023
Std Dev 1.062
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10
8
6
4
2
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−8
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2
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6
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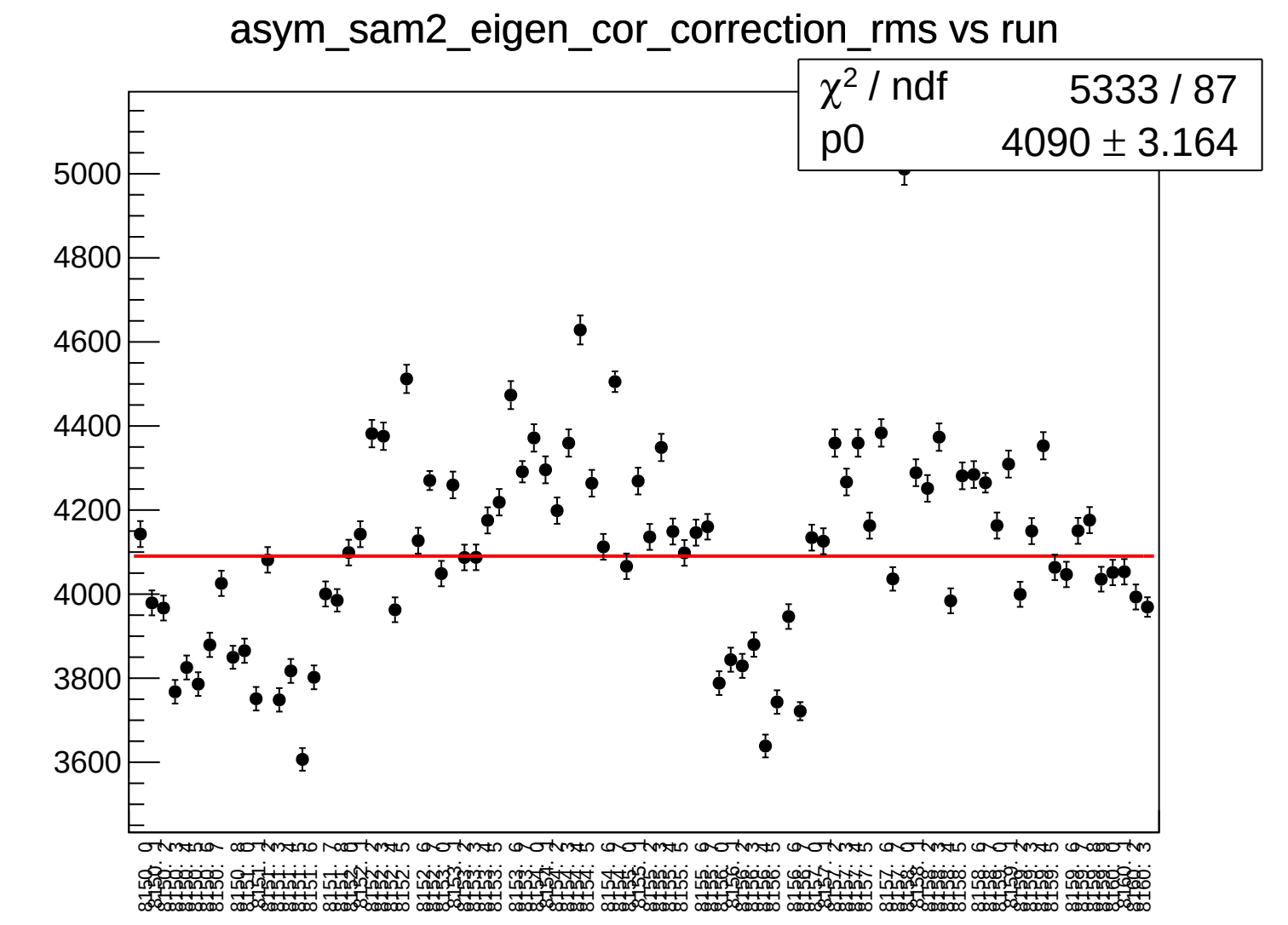
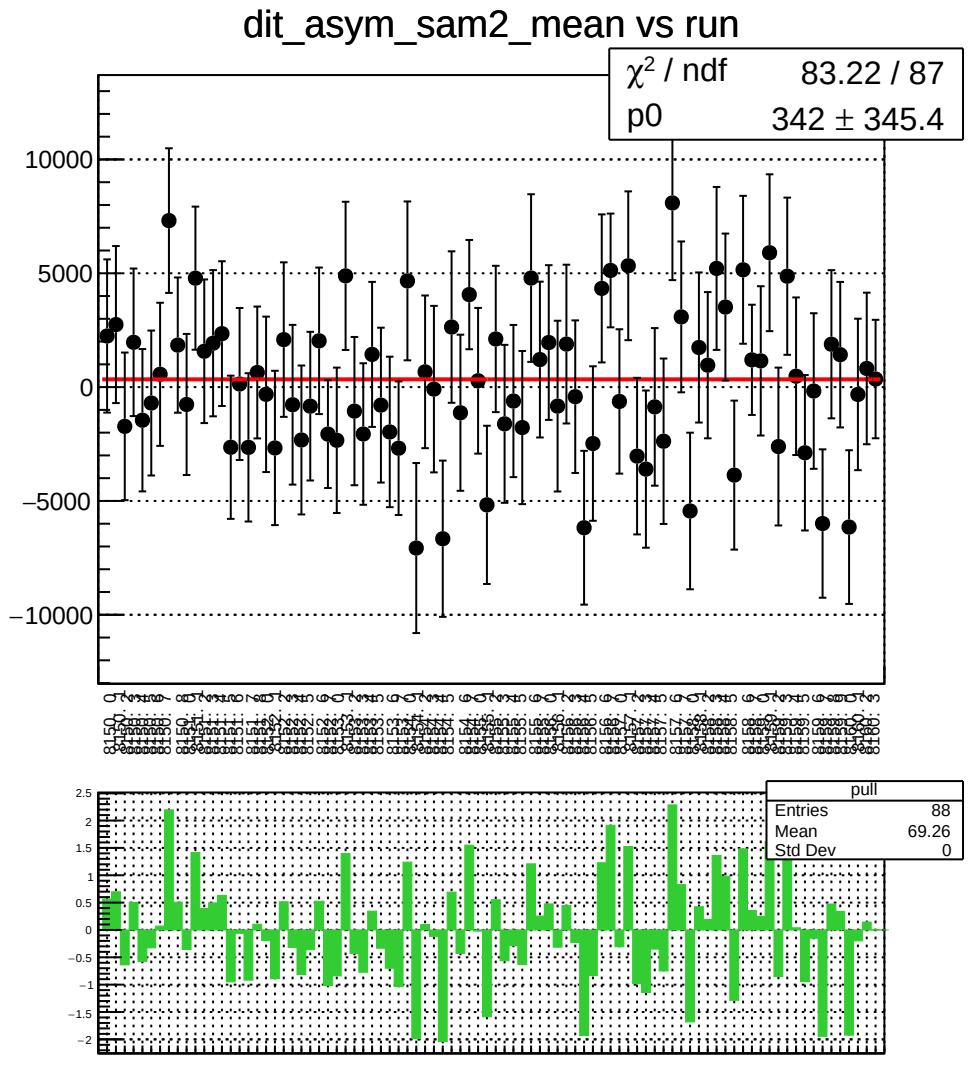
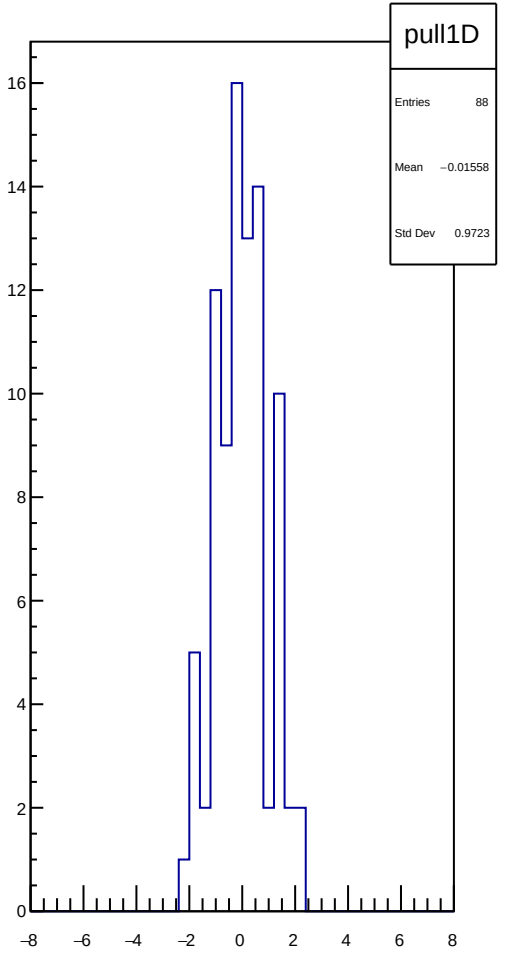

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 5333 / 87
p0 4090 ± 3.164
5000
4800
4600
4400
4200
4000
3800
3600


dit_asym_sam2_mean vs run
χ² / ndf 83.22 / 87
p0 342 ± 345.4
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 69.26
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean −0.01558
Std Dev 0.9723
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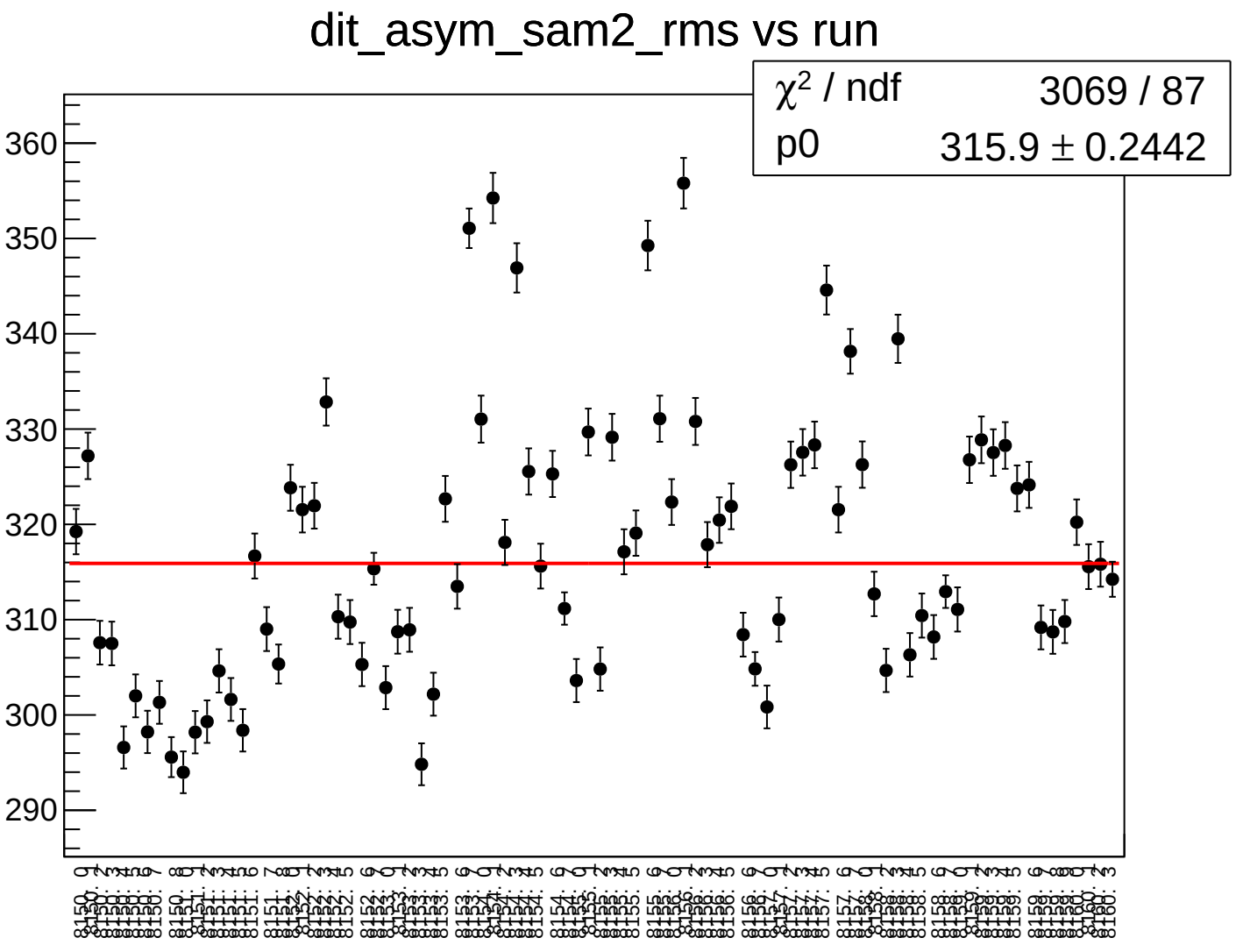
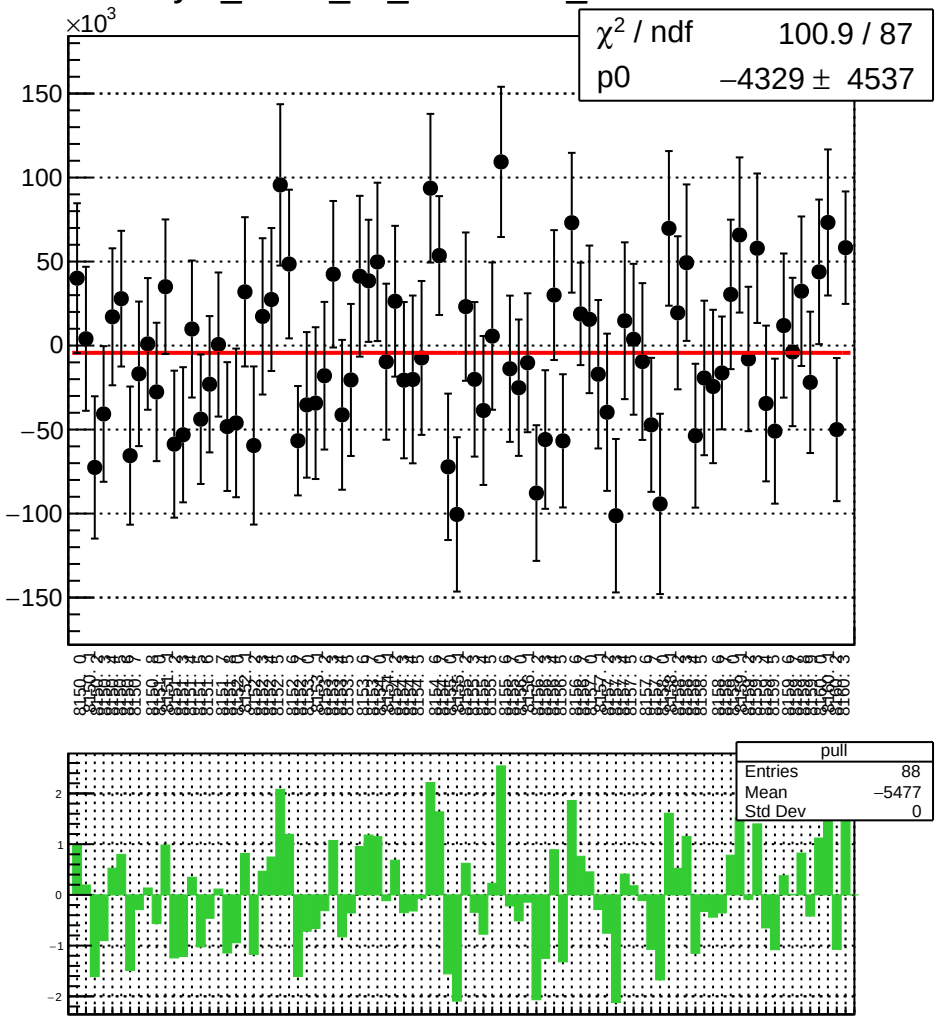
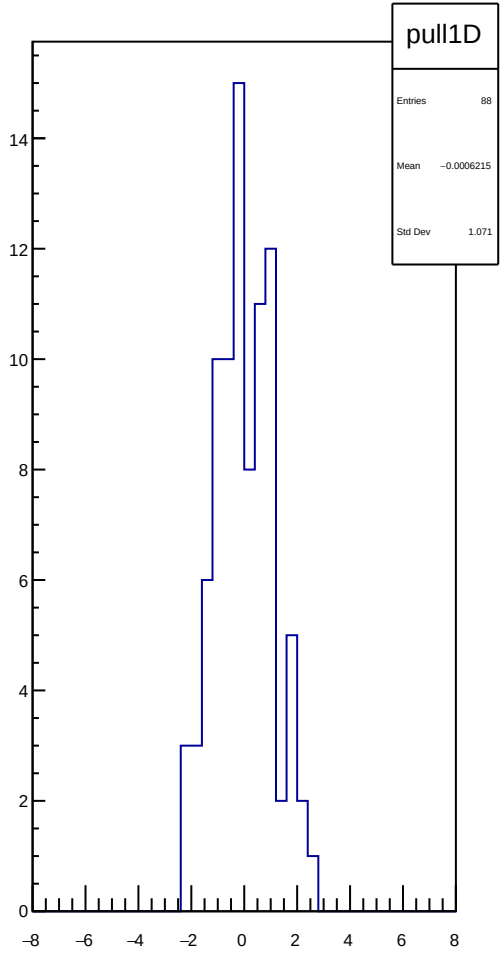
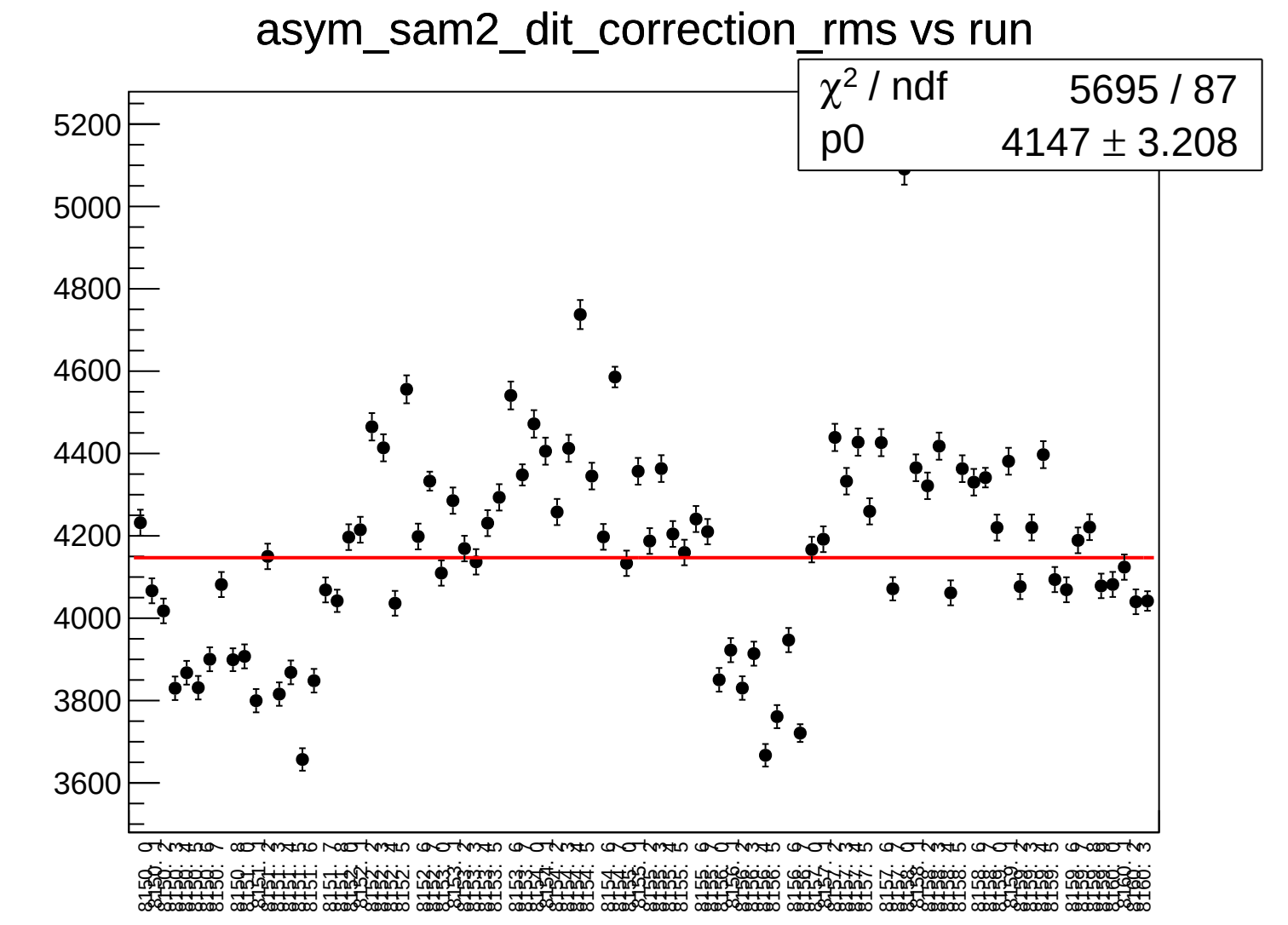
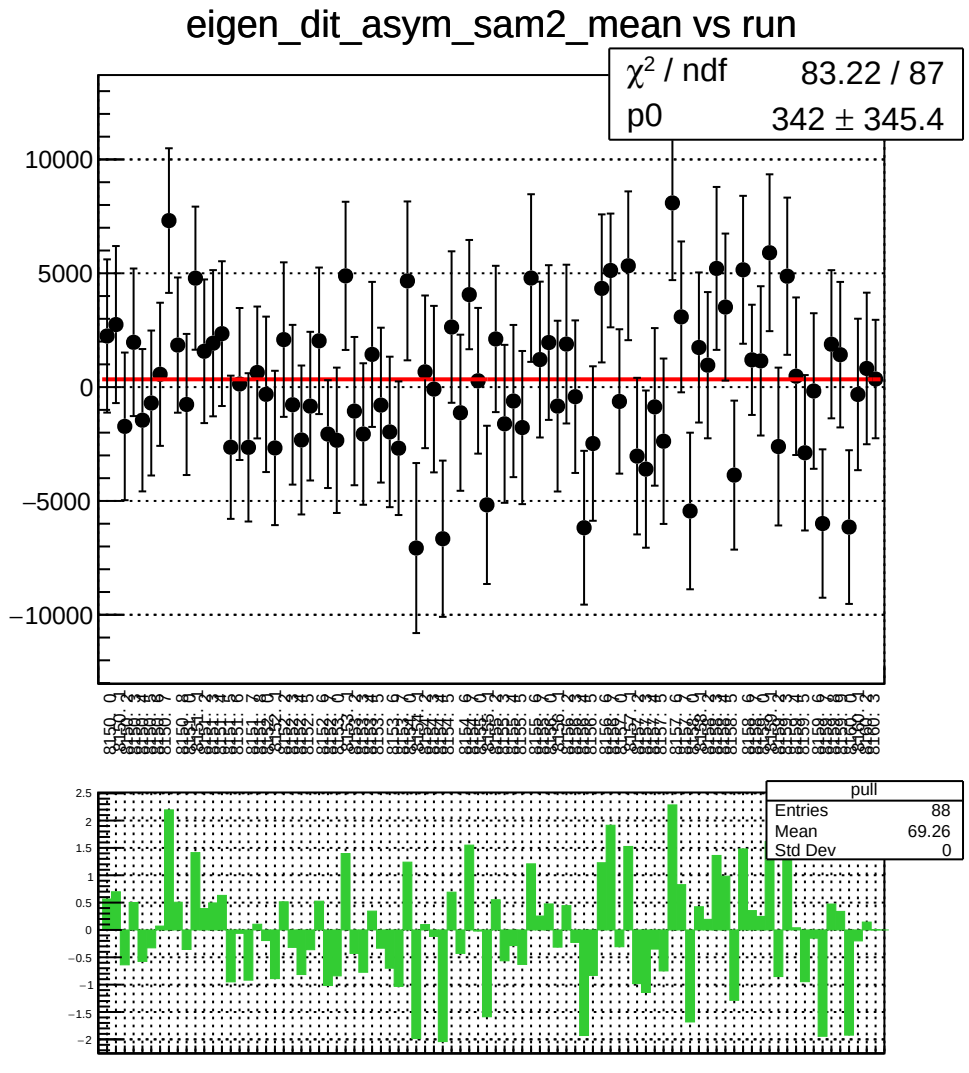
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

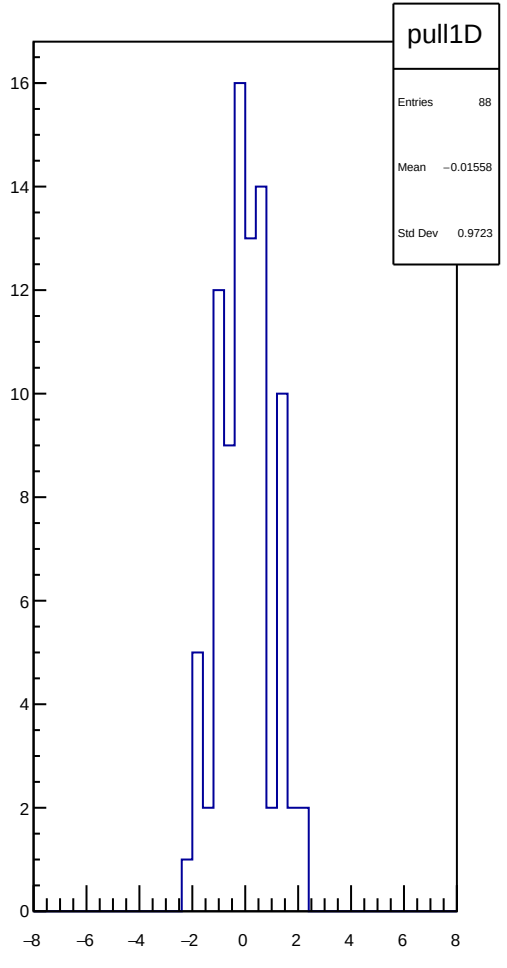

dit_asym_sam2_rms vs run
χ² / ndf 3069 / 87
p0 315.9 ± 0.2442
360
350
340
330
320
310
300
290

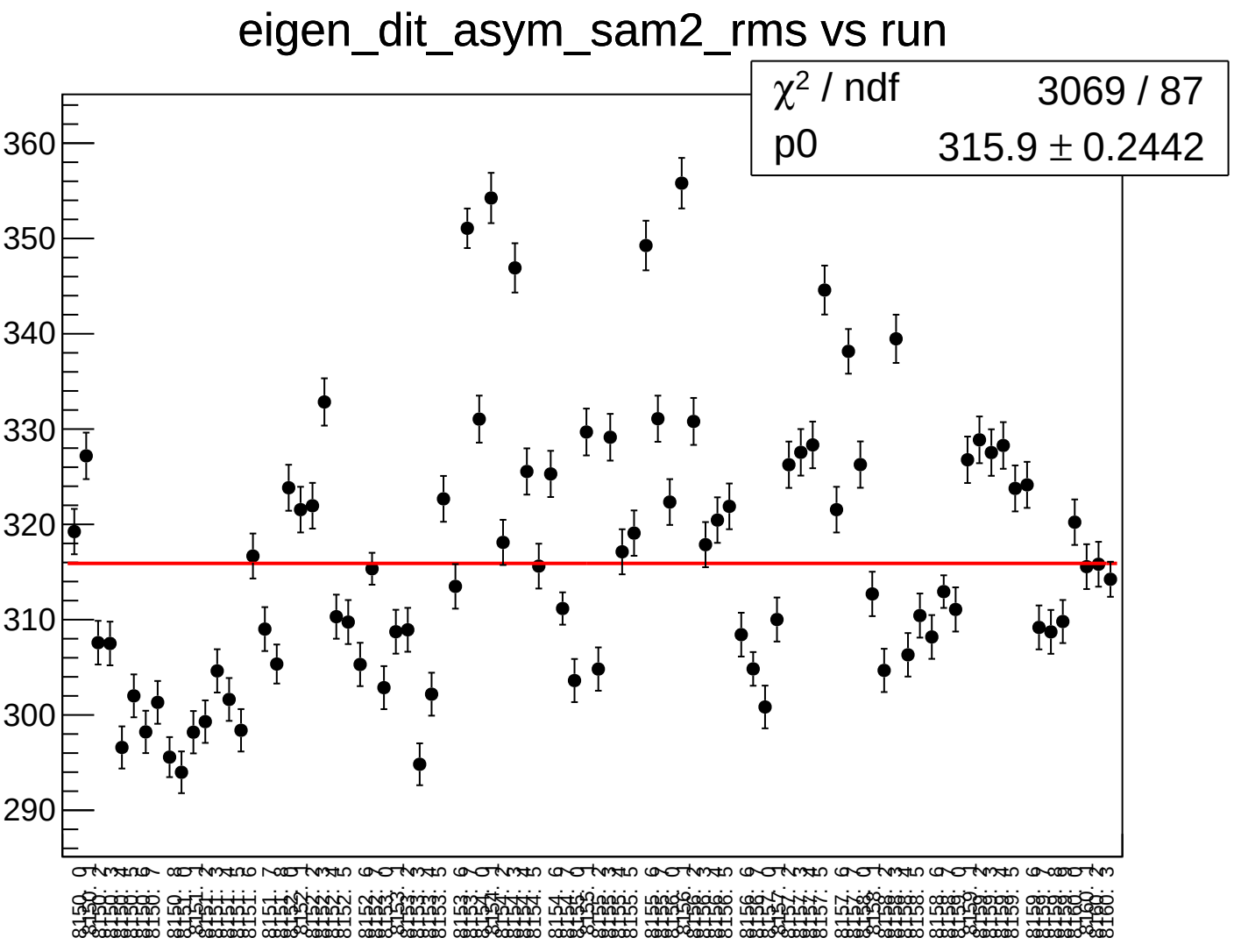

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 100.9 / 87
p0 −4329 ± 4537
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −5477
Std Dev 0
2
1
0
−1
−2

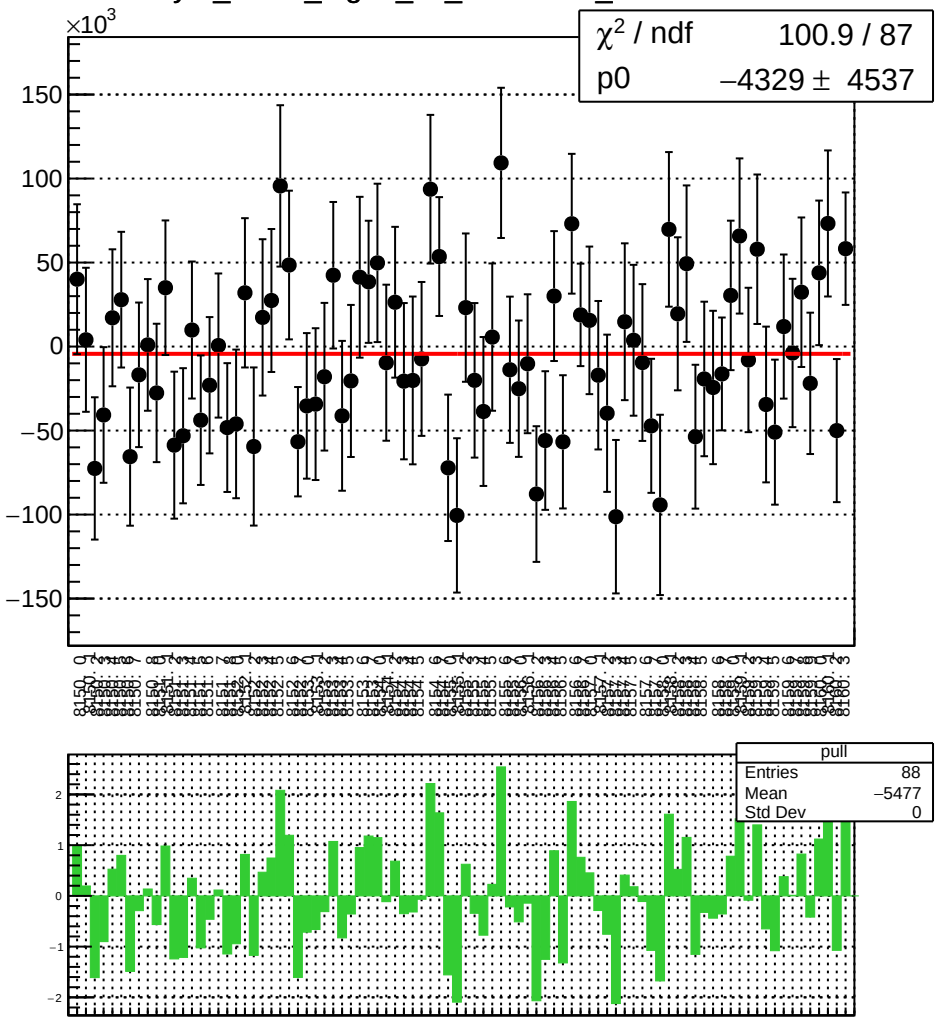

pull1D
Entries 88
Mean −0.0006215
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

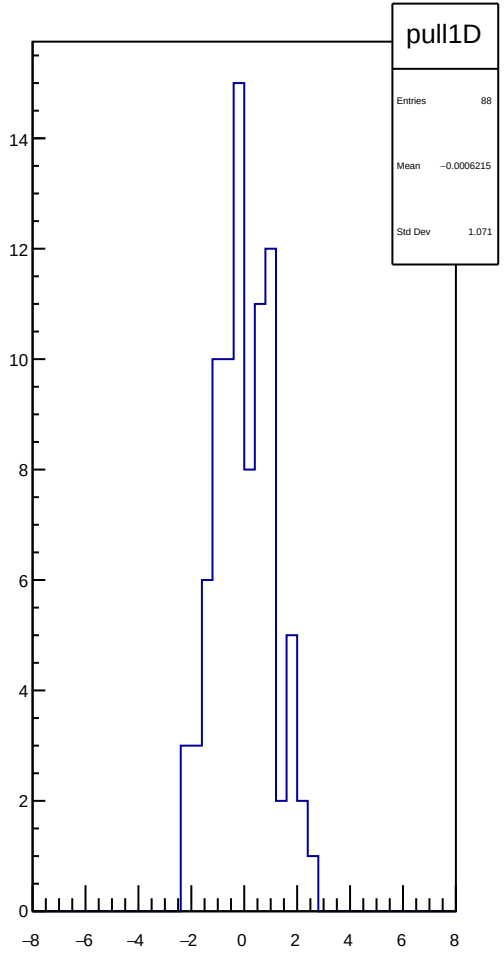

asym_sam2_dit_correction_rms vs run
χ^2 / ndf 5695 / 87
p0 4147 ± 3.208
5200
5000
4800
4600
4400
4200
4000
3800
3600

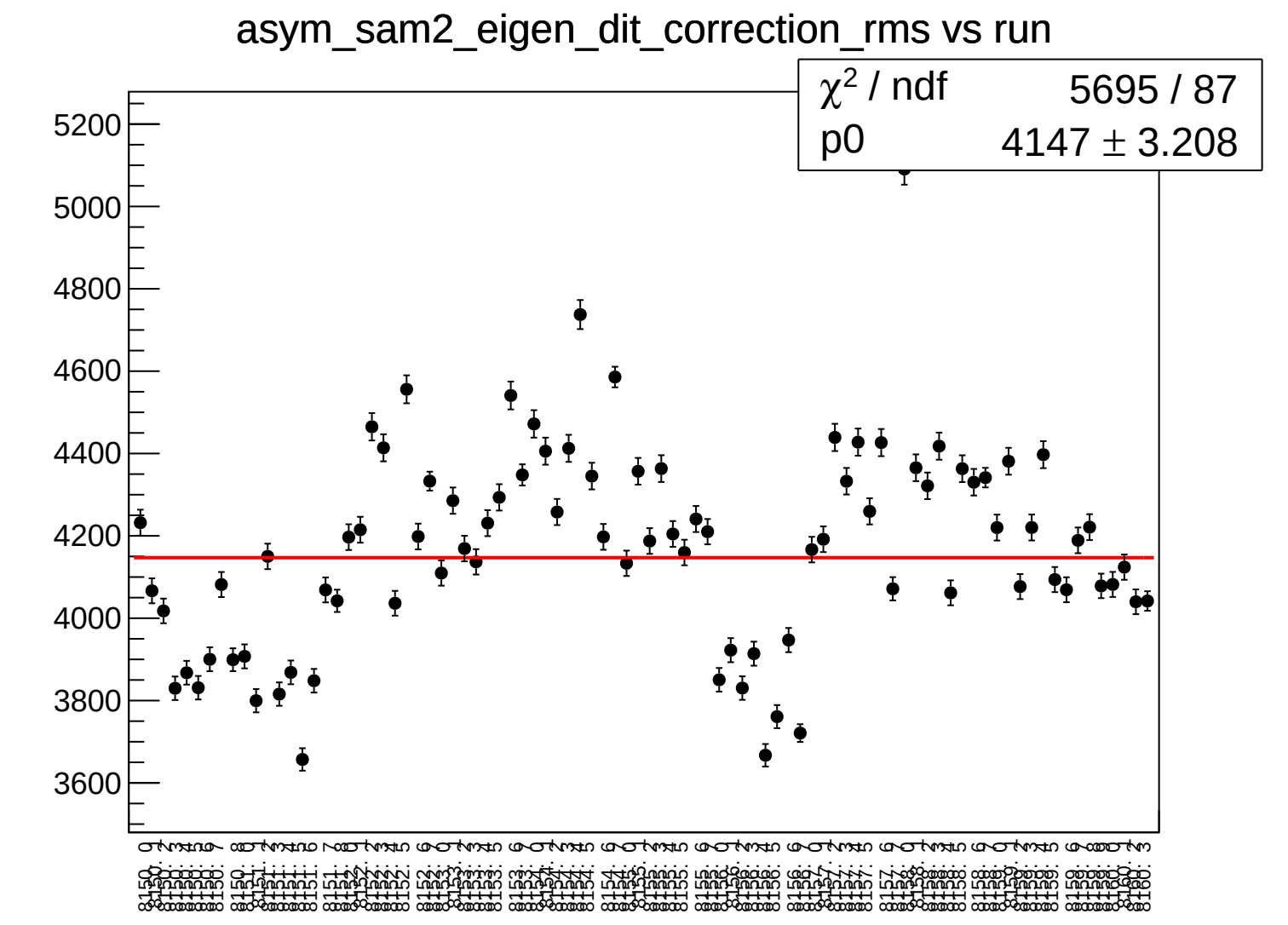

eigen_dit_asym_sam2_mean vs run
χ² / ndf 83.22 / 87
p0 342 ± 345.4
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 69.26
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

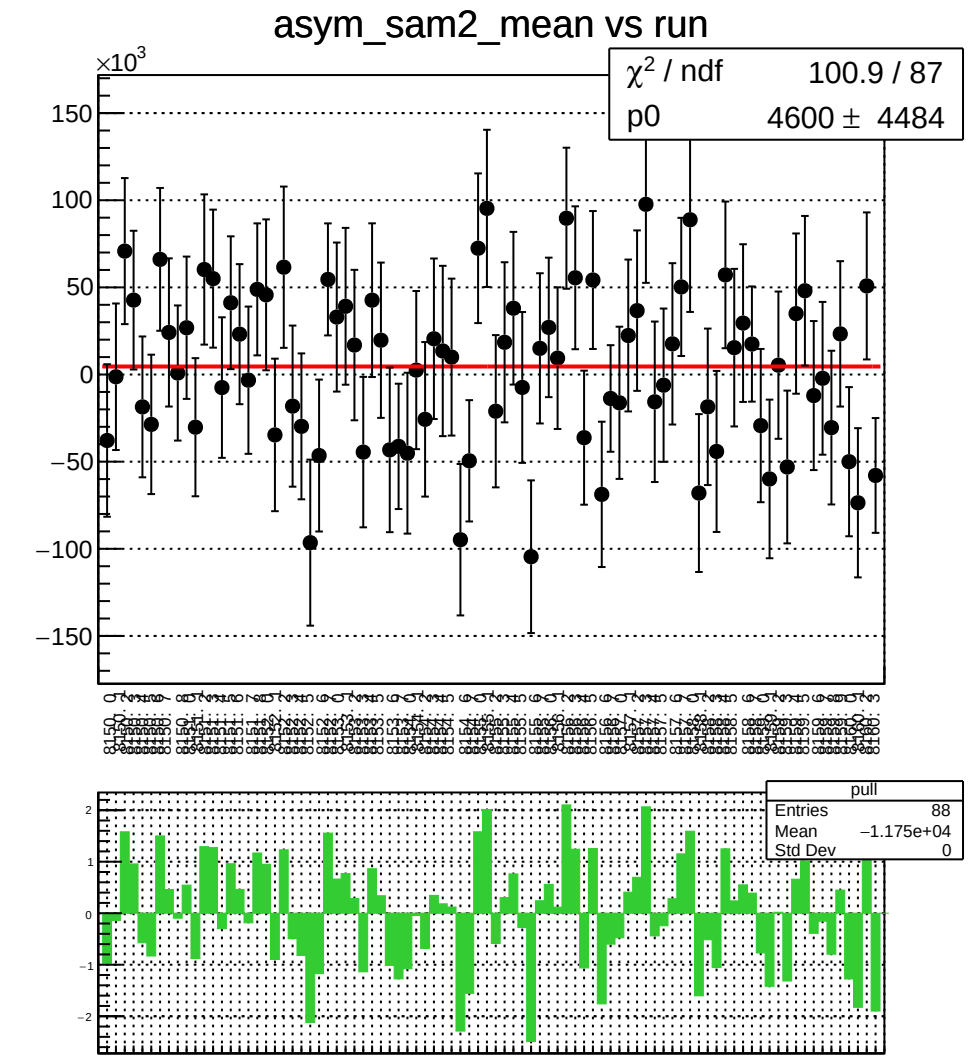

pull1D
Entries 88
Mean −0.01558
Std Dev 0.9723
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

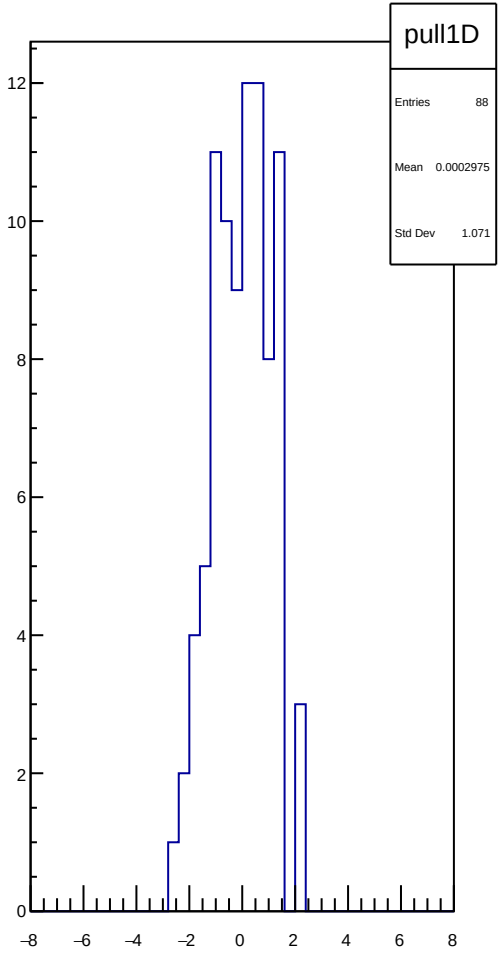

eigen_dit_asym_sam2_rms vs run
χ² / ndf 3069 / 87
p0 315.9 ± 0.2442
360
350
340
330
320
310
300
290


asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.9 / 87
p0 −4329 ± 4537
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −5477
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.0006215
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 5695 / 87
p0 4147 ± 3.208
5200
5000
4800
4600
4400
4200
4000
3800
3600


asym_sam2_mean vs run
×10^3
χ² / ndf 100.9 / 87
p0 4600 ± 4484
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −1.175e+04
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.0002975
Std Dev 1.071
12
10
8
6
4
2
0
−8
−6
−4
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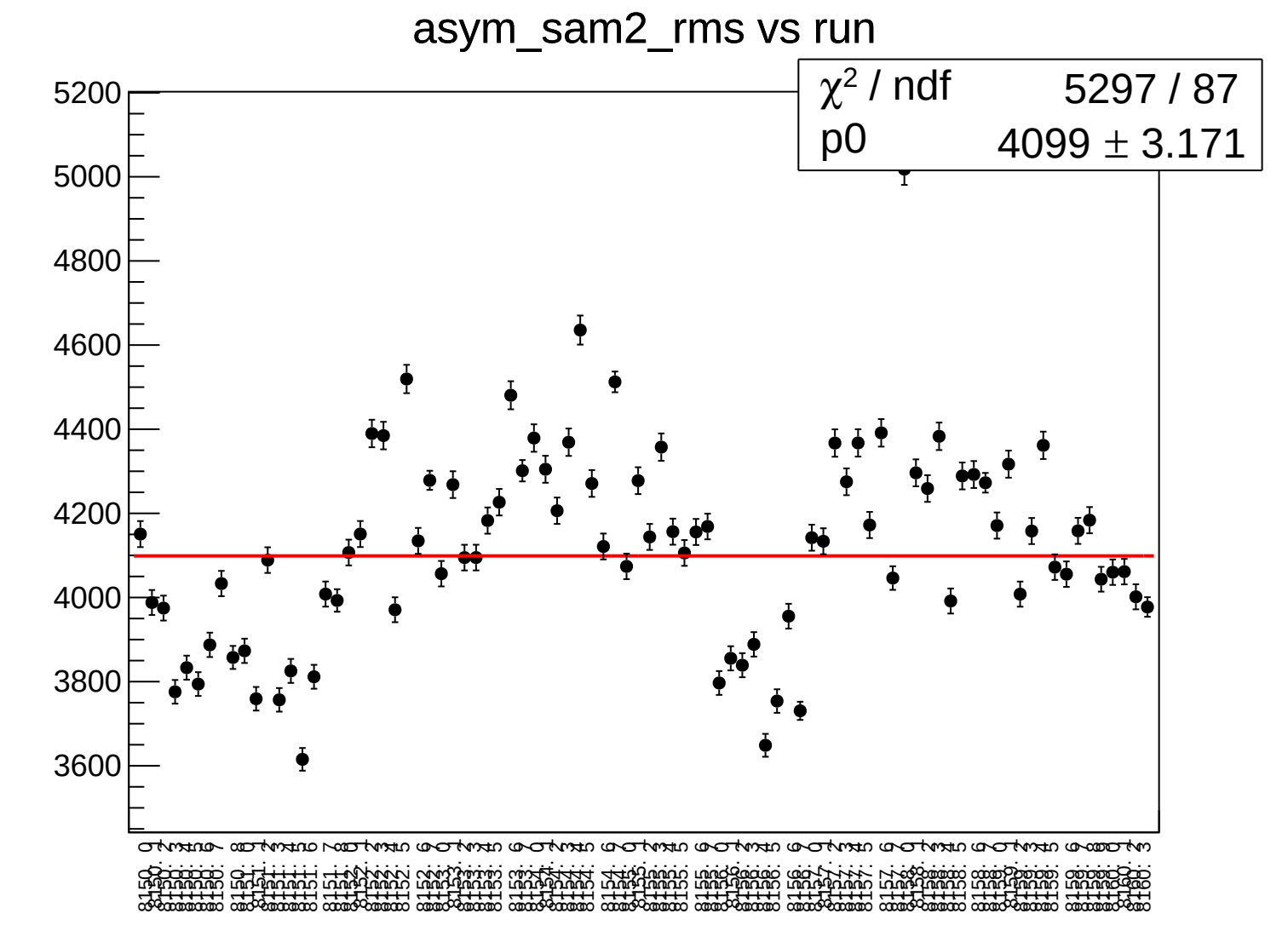
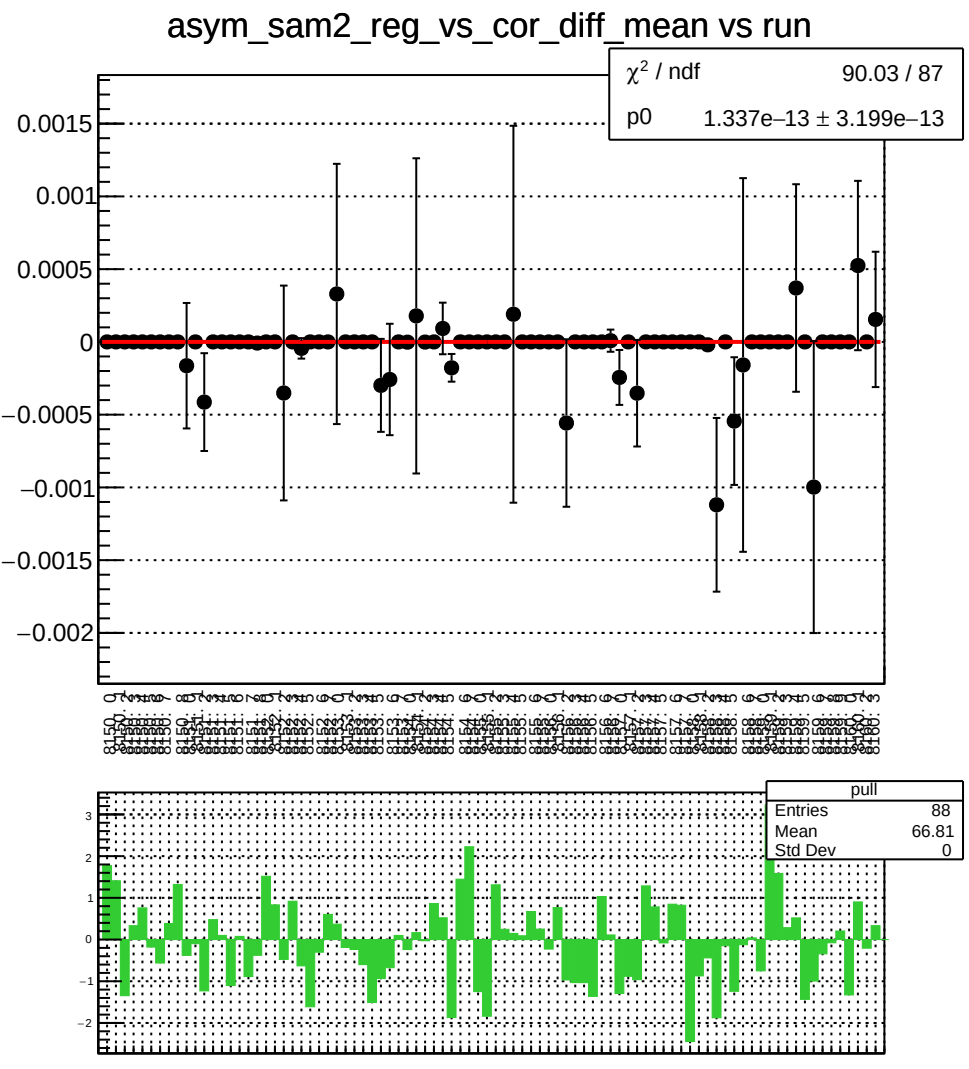
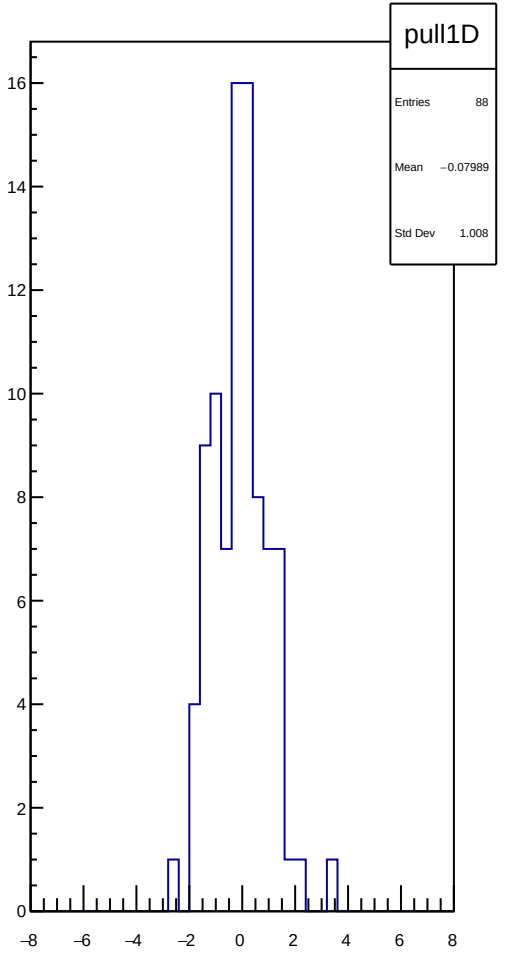
2
4
6
8


asym_sam2_rms vs run
χ^2 / ndf 5297 / 87
p0 4099 ± 3.171
5200
5000
4800
4600
4400
4200
4000
3800
3600


asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 90.03 / 87
p0 1.337e−13 ± 3.199e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 88
Mean 66.81
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.07989
Std Dev 1.008
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10
8
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4
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−8
−6
−4
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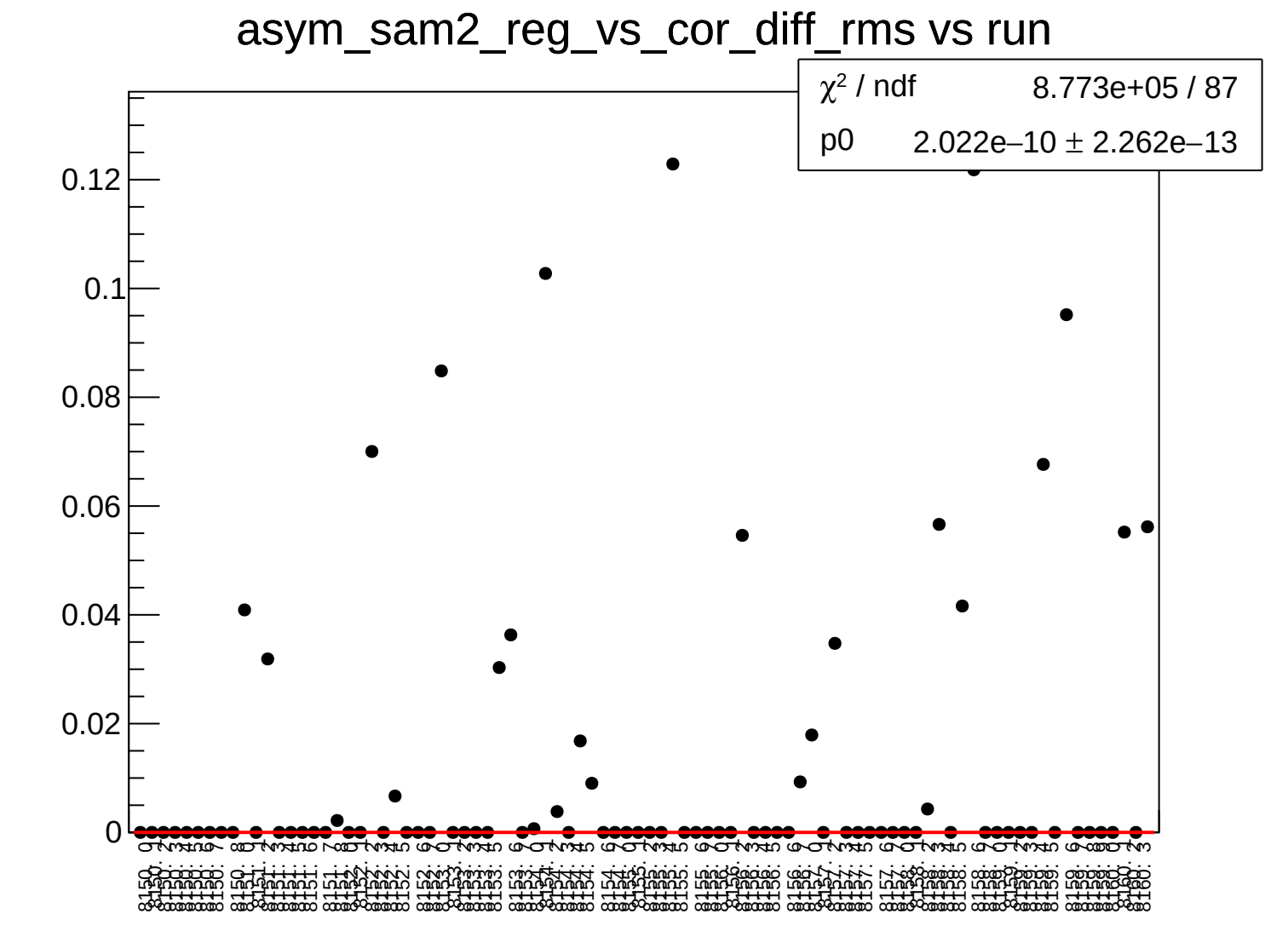
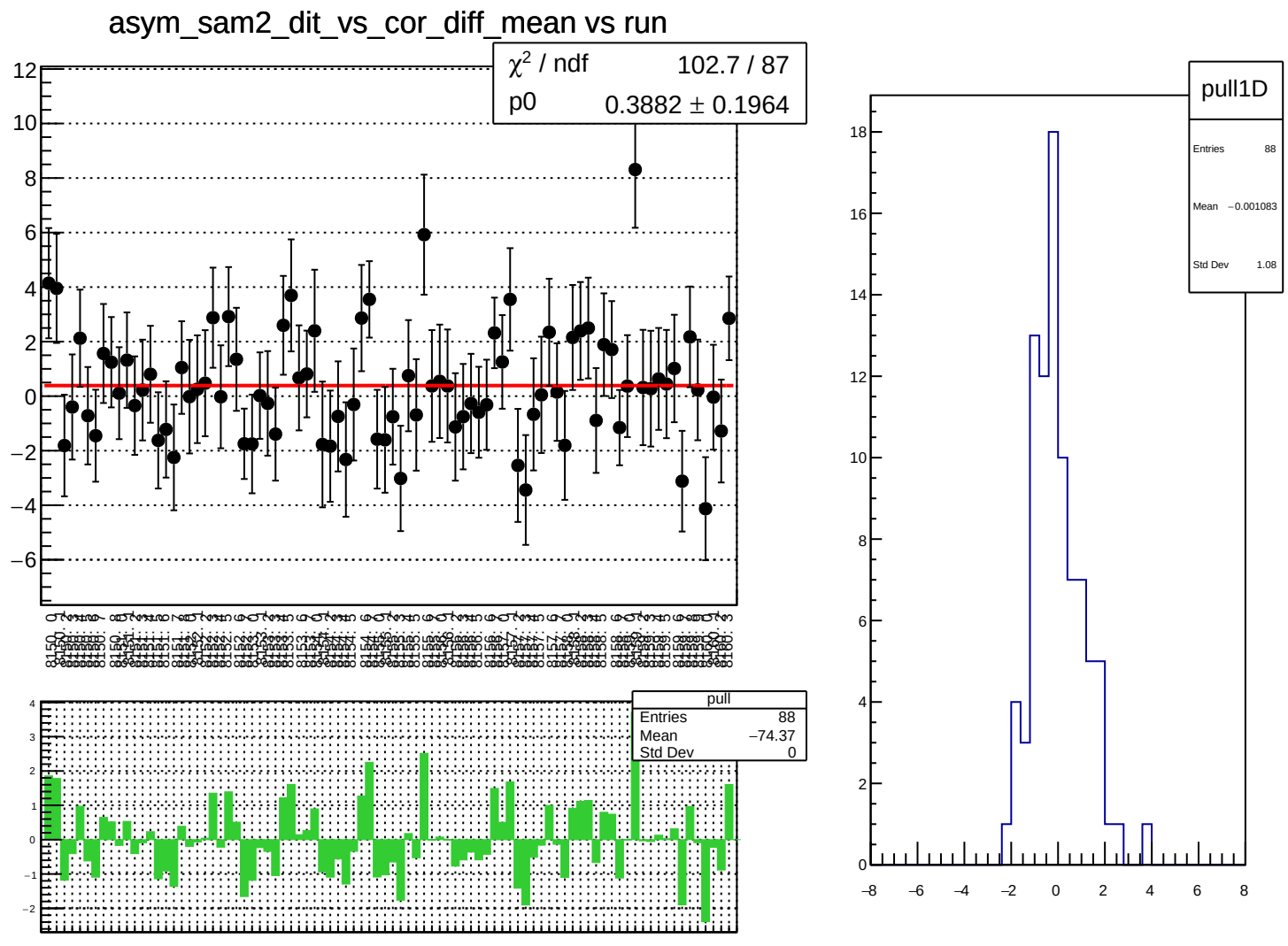
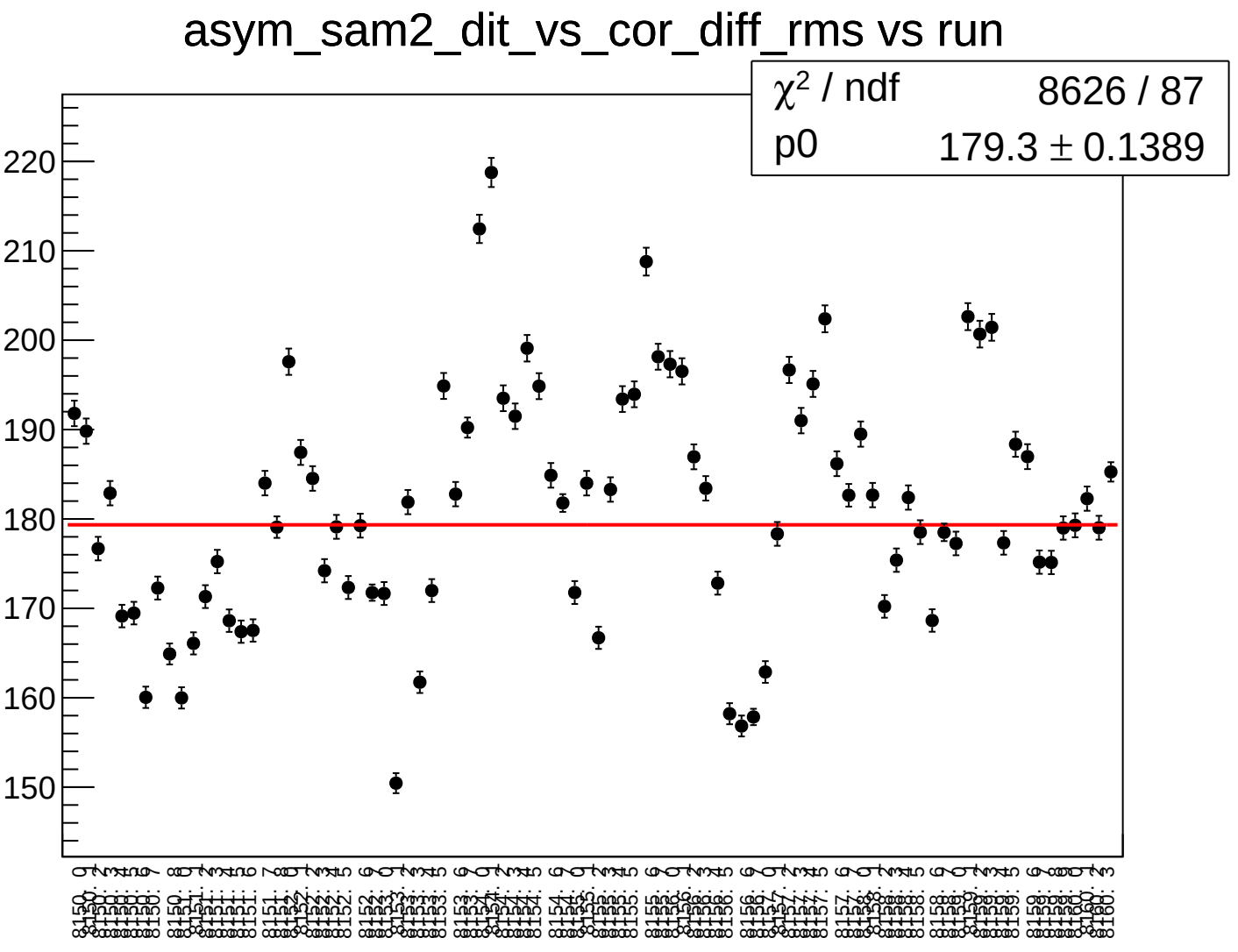
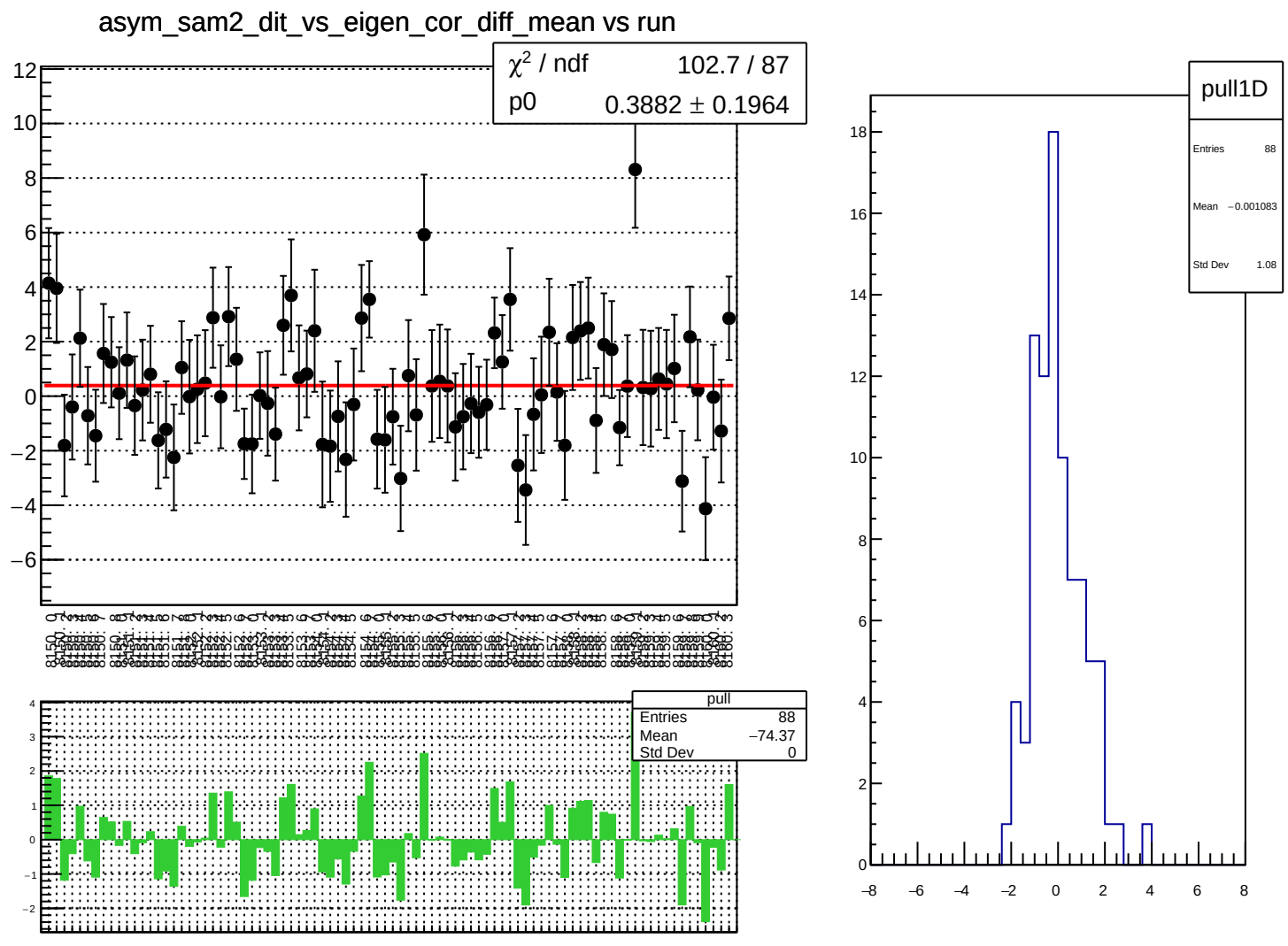
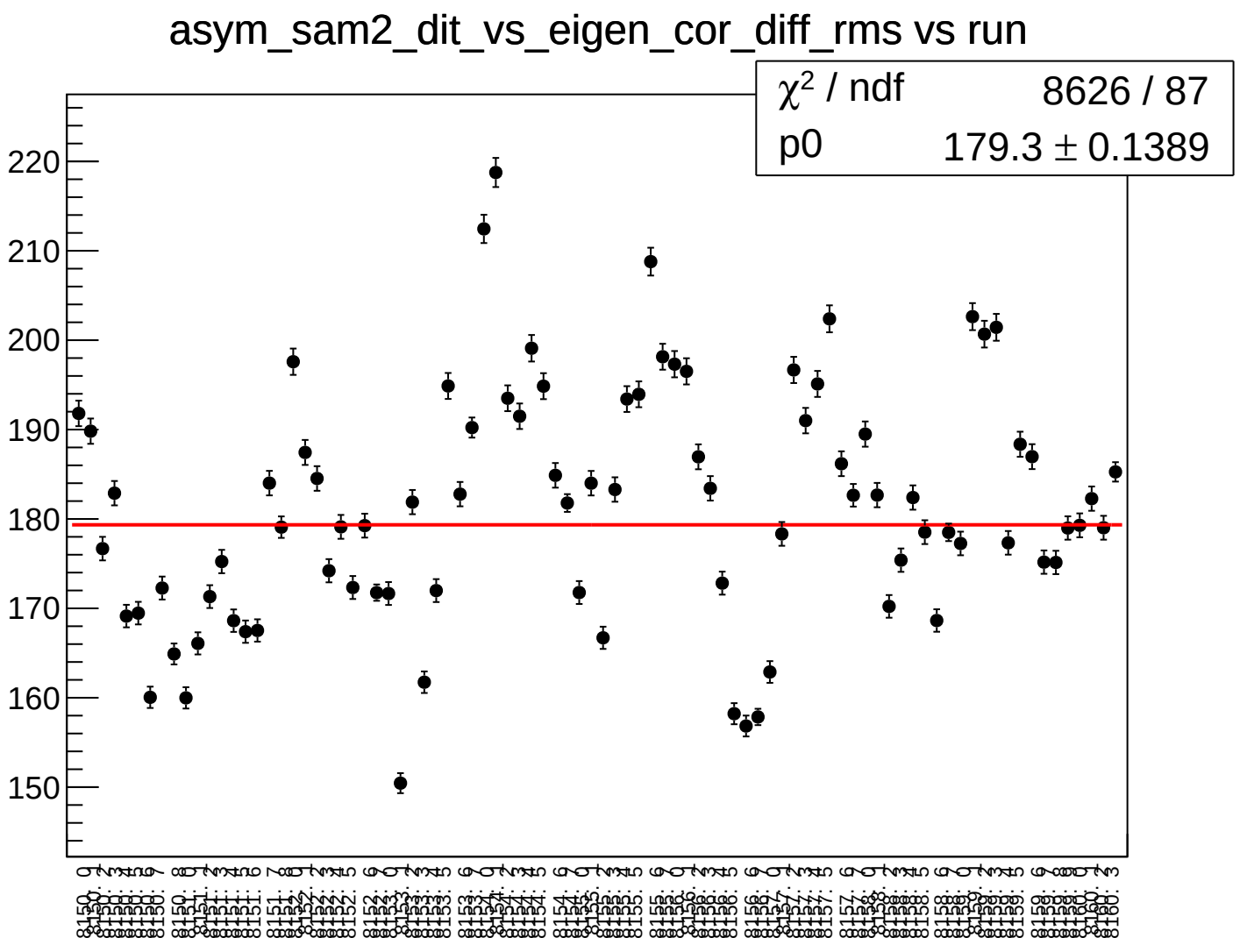
0
2
4
6
8

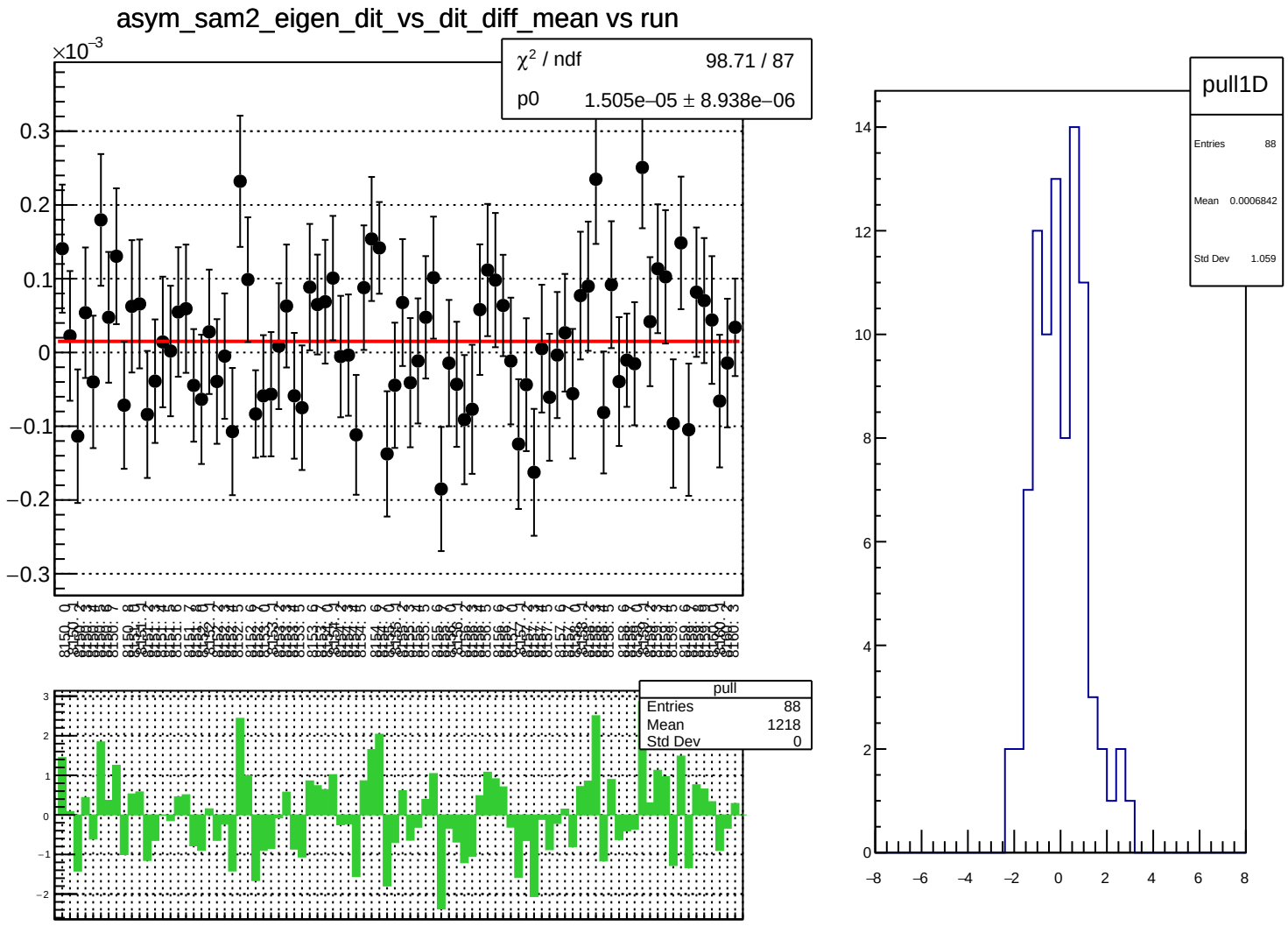

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 8.773e+05 / 87
p0 2.022e−10 ± 2.262e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

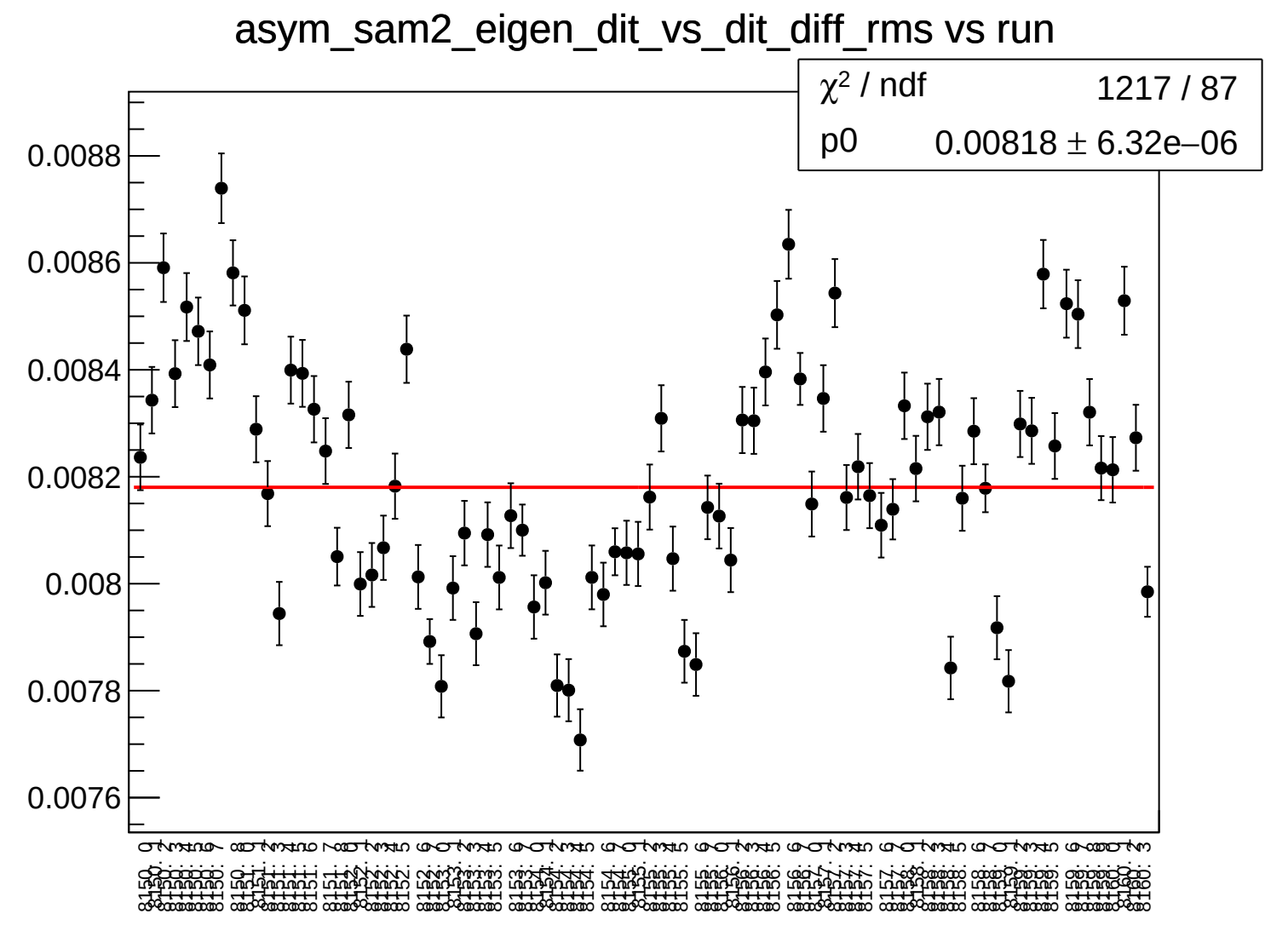

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 87
p0 0.3882 ± 0.1964
pull
Entries 88
Mean −74.37
Std Dev 0
pull1D
Entries 88
Mean −0.001083
Std Dev 1.08

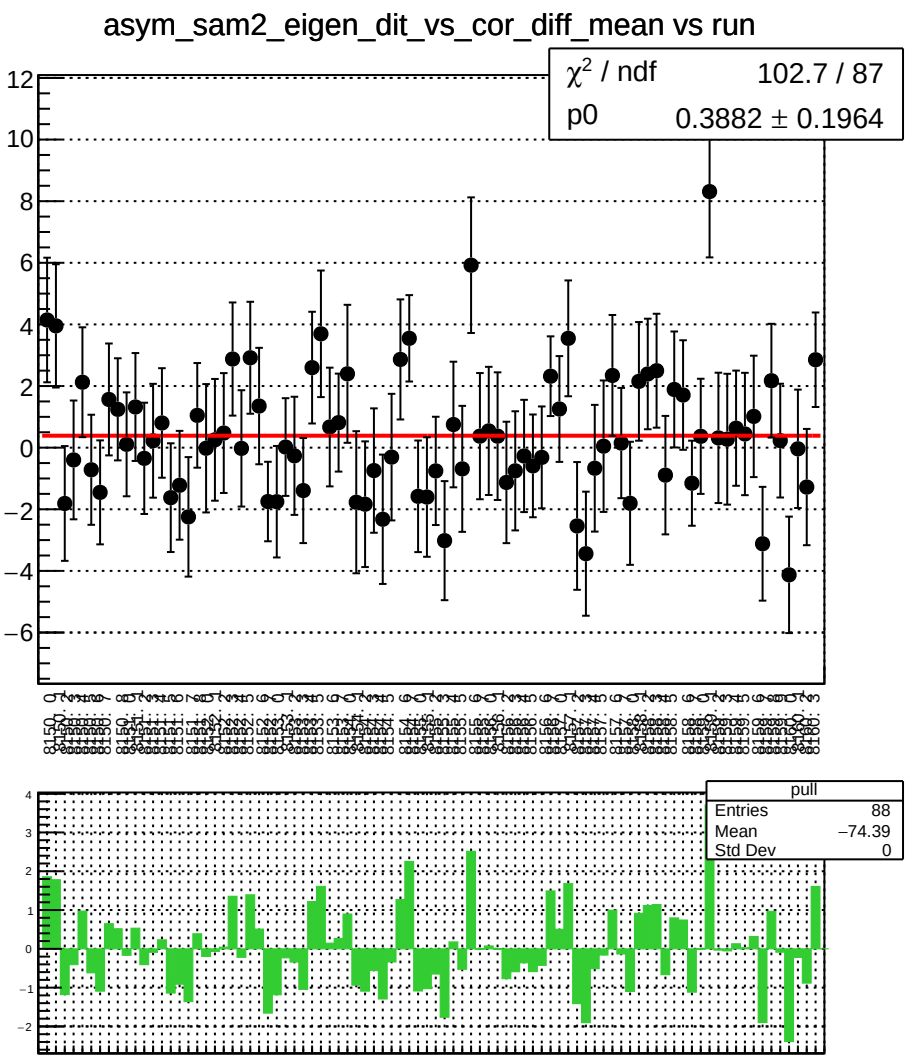

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 8626 / 87
p0 179.3 ± 0.1389
220
210
200
190
180
170
160
150

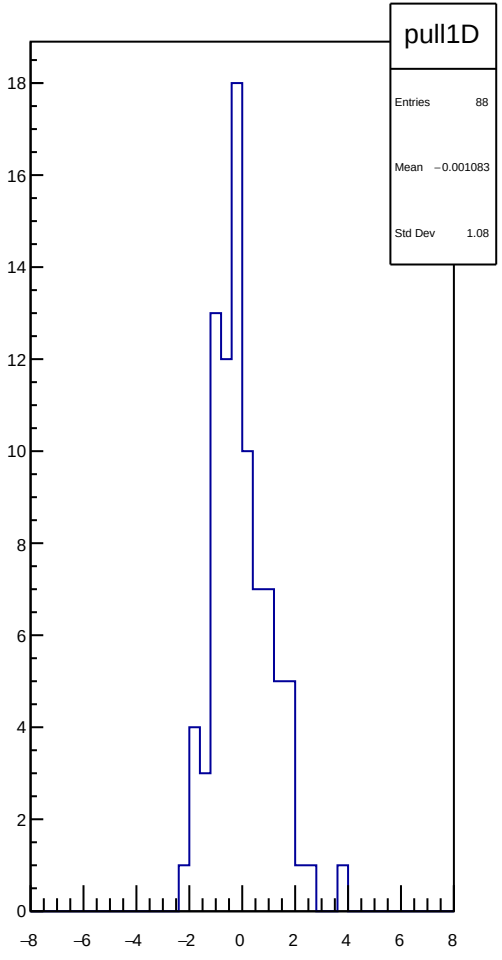

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.7 / 87
p0 0.3882 ± 0.1964
pull
Entries 88
Mean −74.37
Std Dev 0
pull1D
Entries 88
Mean −0.001083
Std Dev 1.08

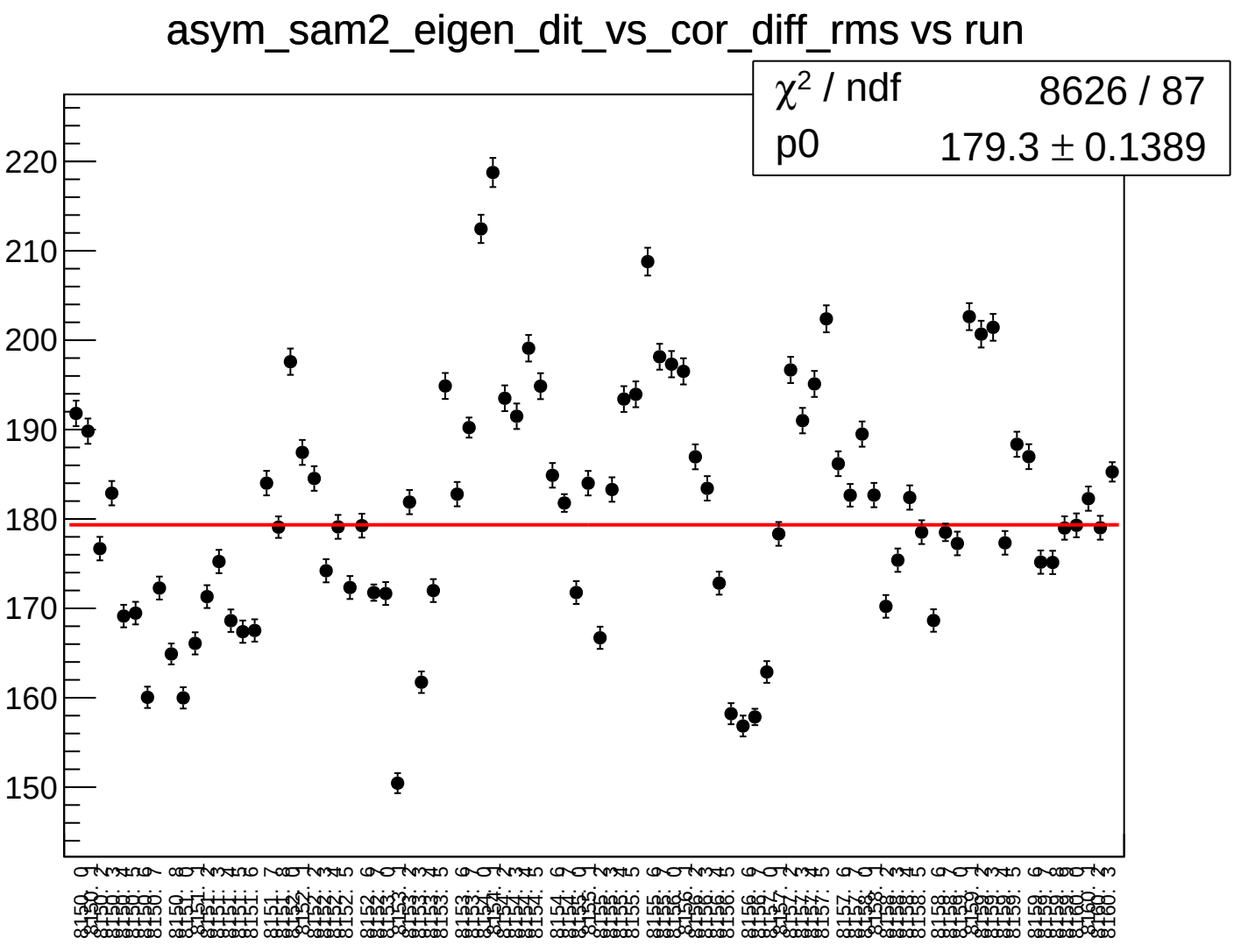

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8626 / 87
p0 179.3 ± 0.1389
220
210
200
190
180
170
160
150

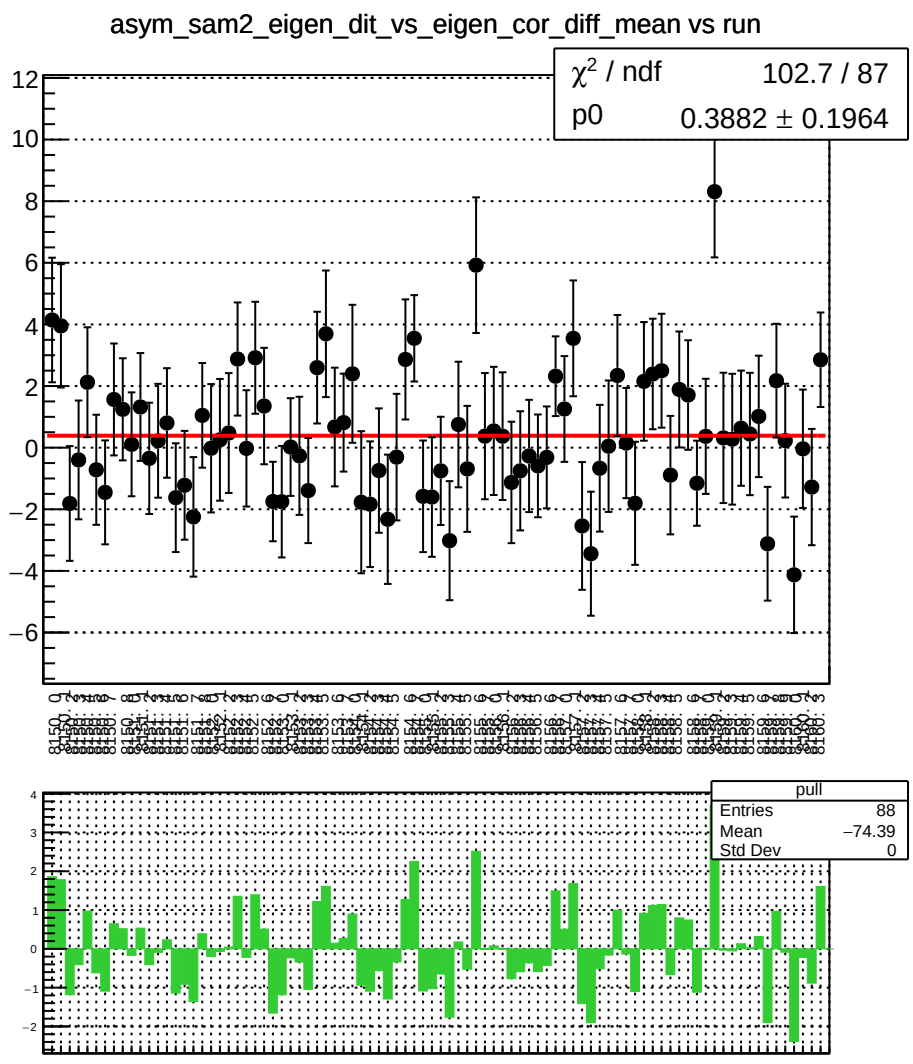

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.71 / 87
p0 1.505e−05 ± 8.938e−06
pull
Entries 88
Mean 1218
Std Dev 0
pull1D
Entries 88
Mean 0.0006842
Std Dev 1.059

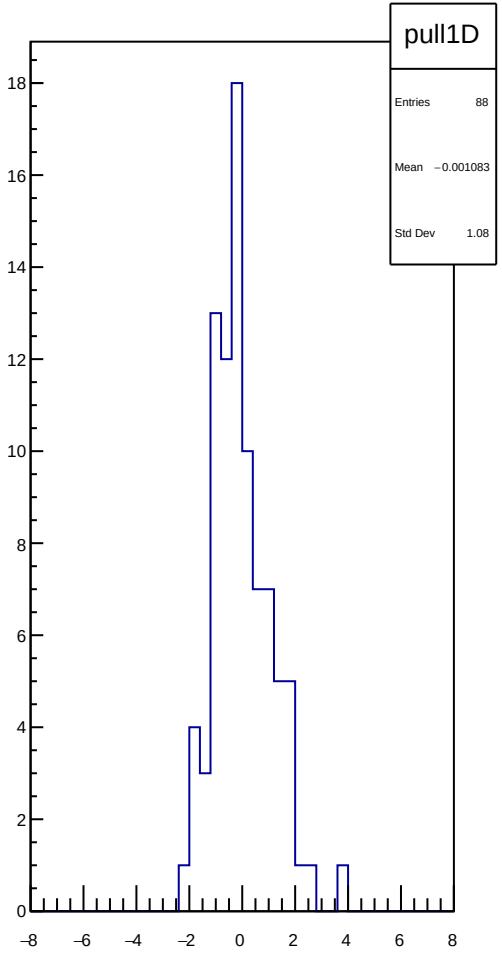

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1217 / 87
p0 0.00818 ± 6.32e–06
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076

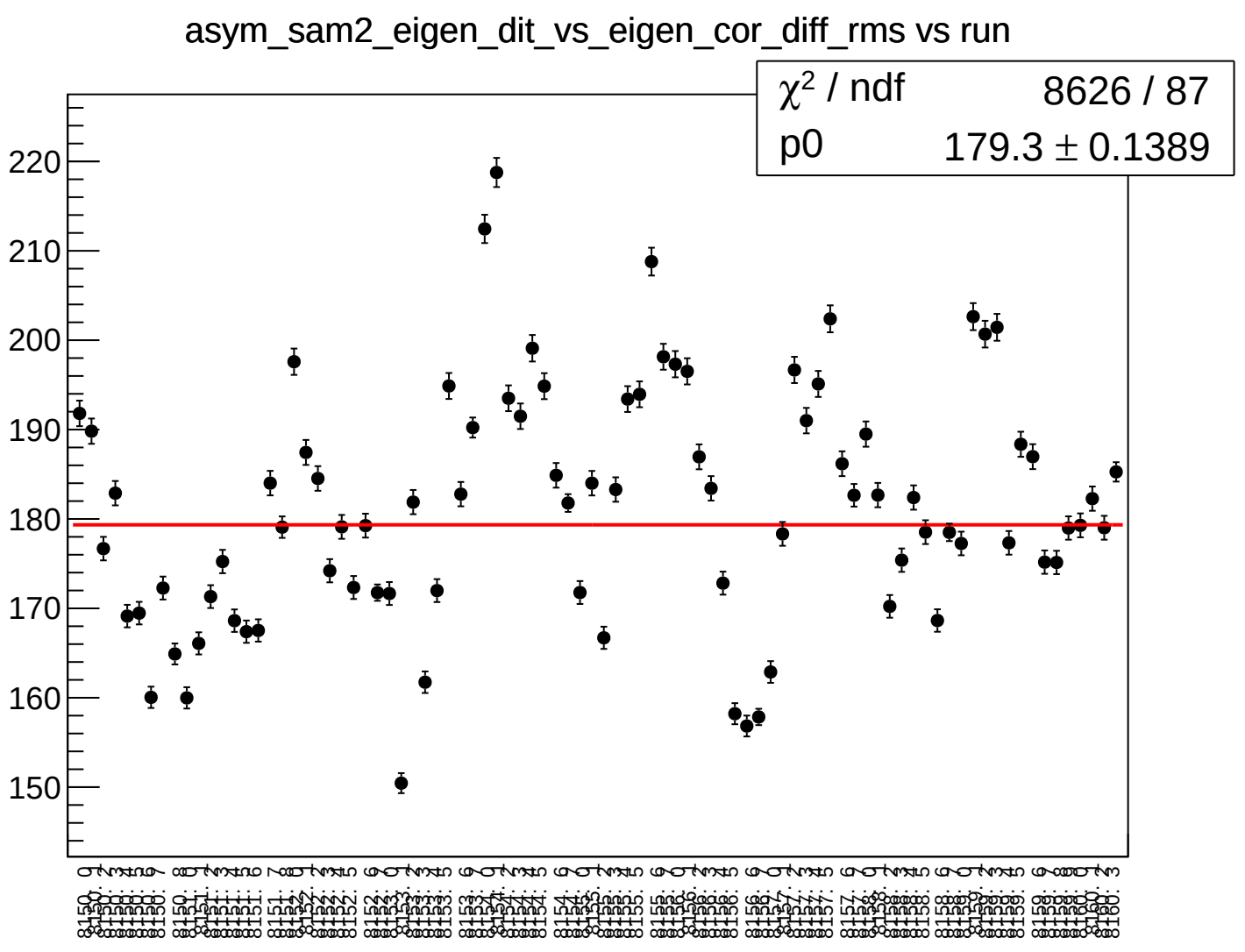

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 87
p0 0.3882 ± 0.1964
pull
Entries 88
Mean −74.39
Std Dev 0

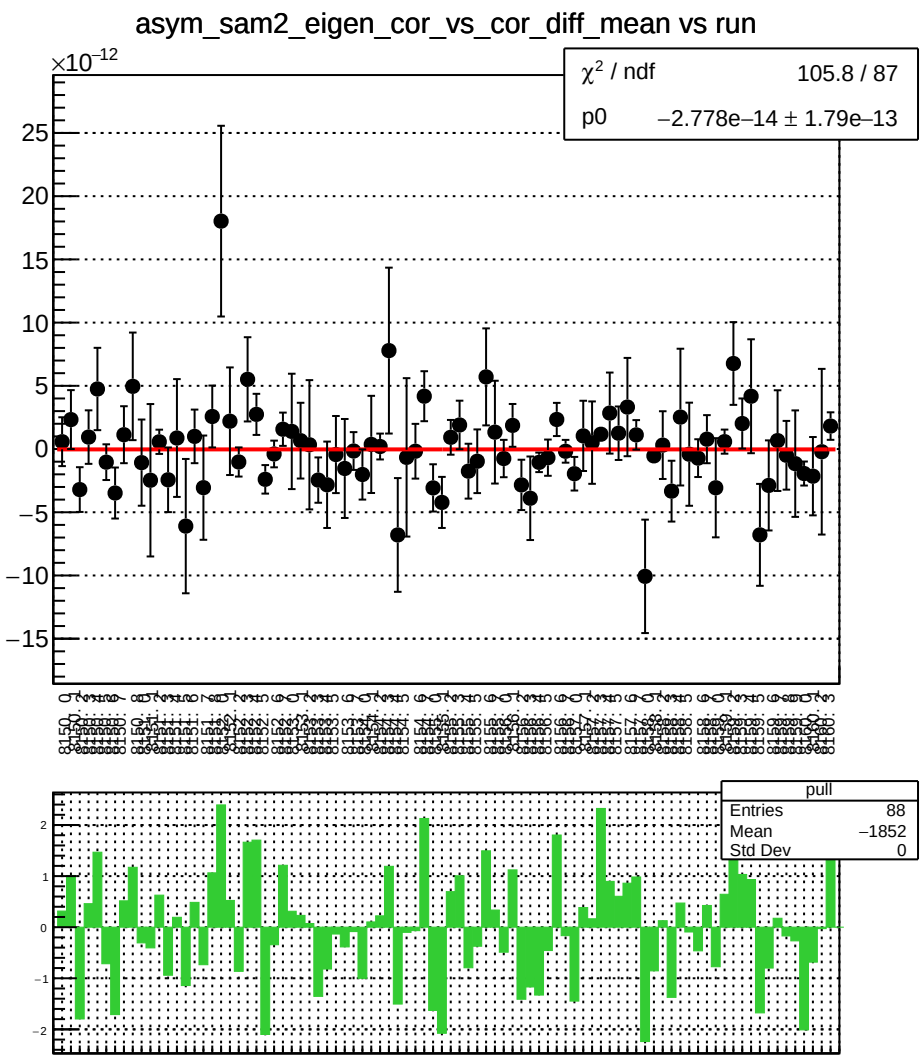

pull1D
Entries 88
Mean −0.001083
Std Dev 1.08

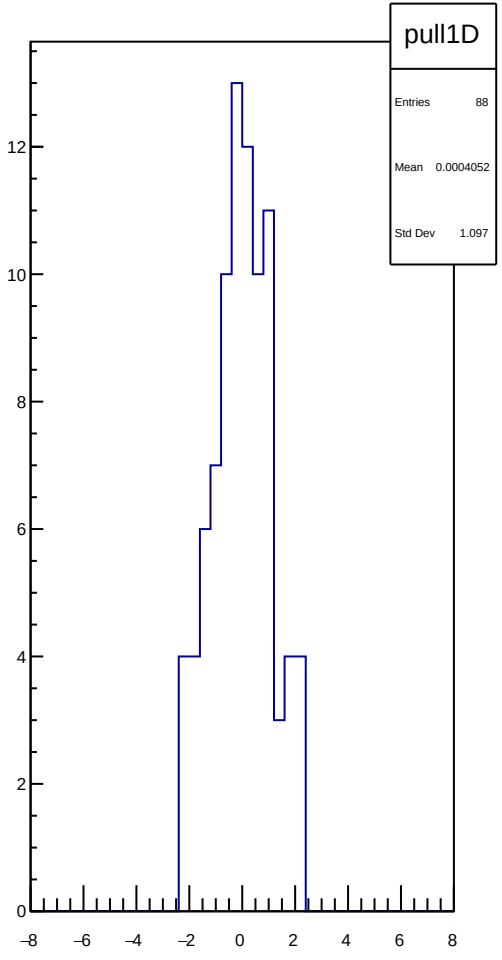

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8626 / 87
p0 179.3 ± 0.1389
220
210
200
190
180
170
160
150

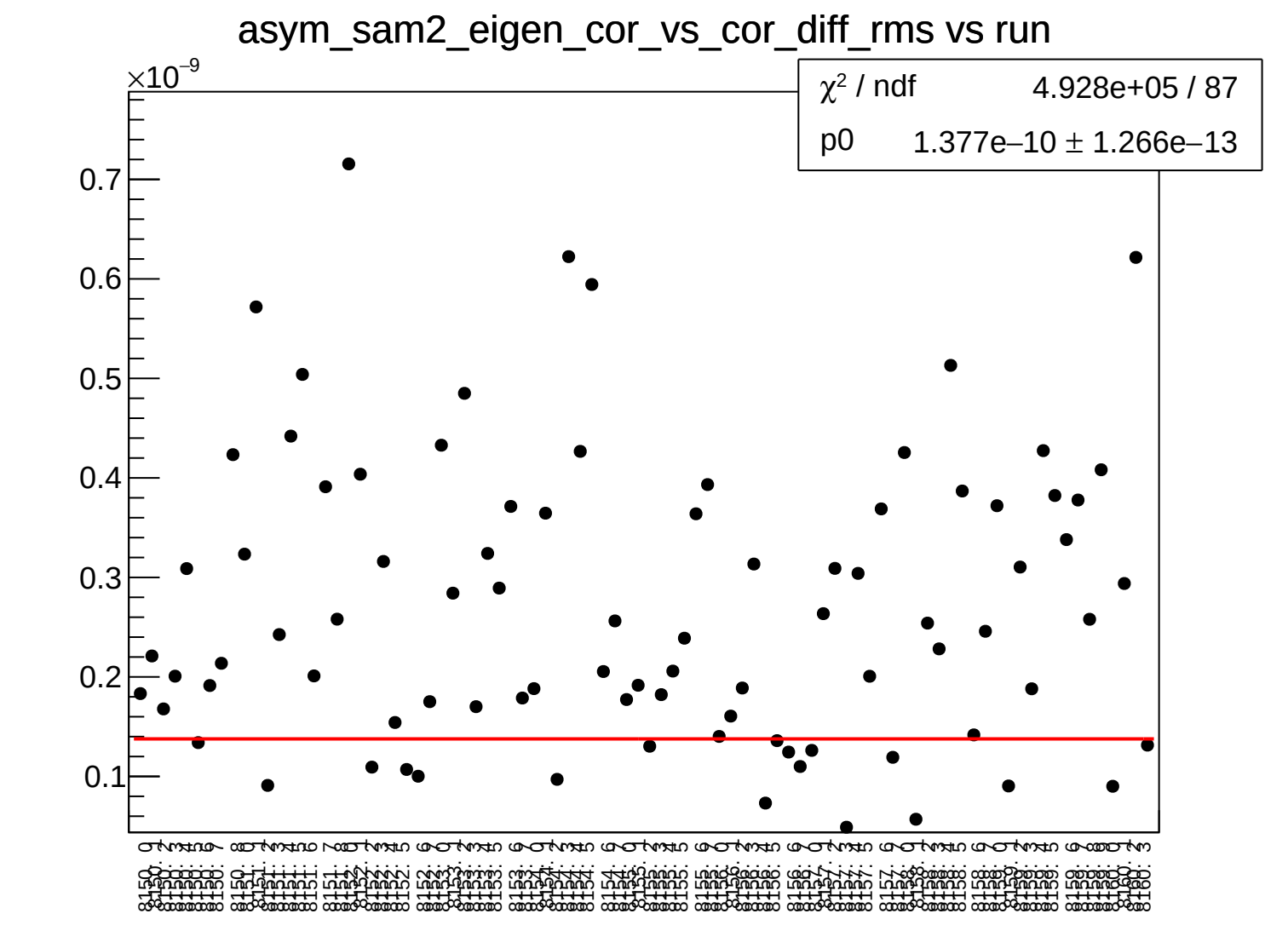

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.7 / 87
p0 0.3882 ± 0.1964
pull
Entries 88
Mean −74.39
Std Dev 0

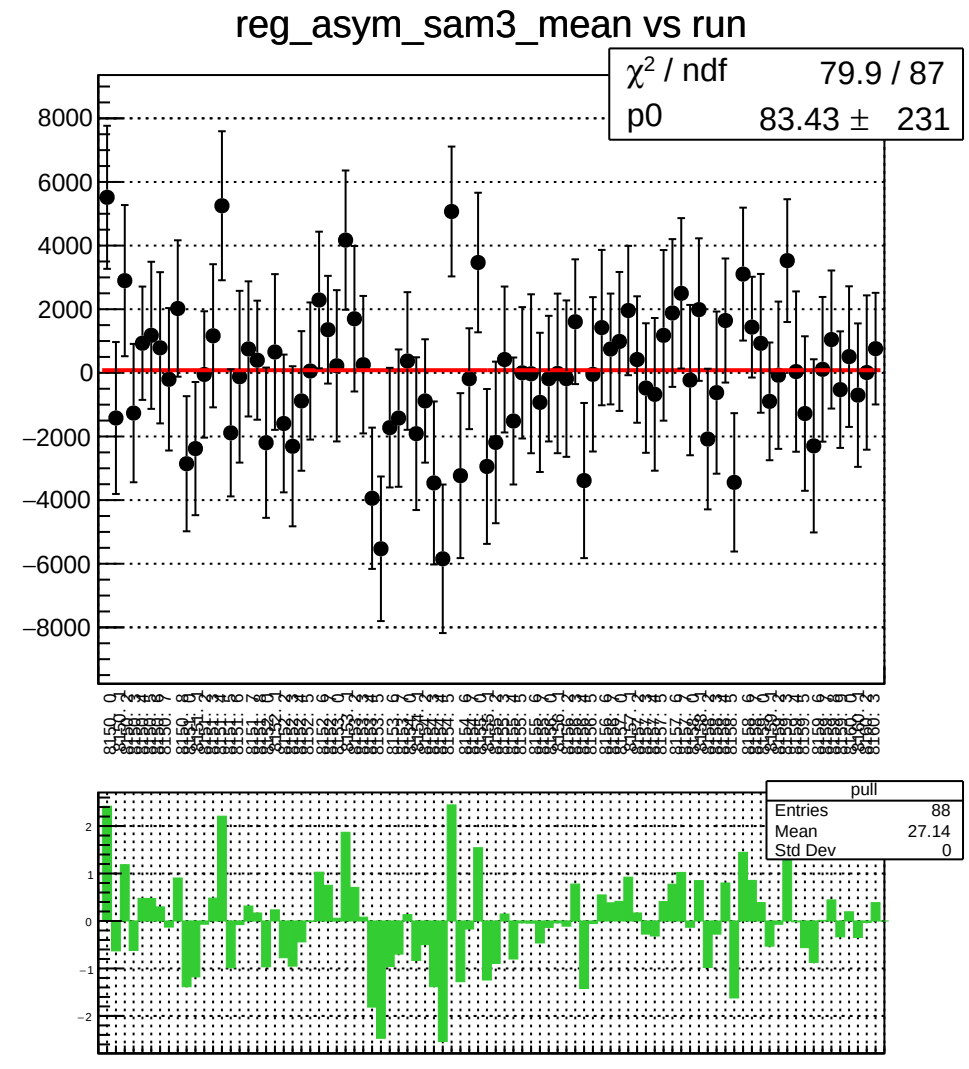

pull1D
Entries 88
Mean −0.001083
Std Dev 1.08

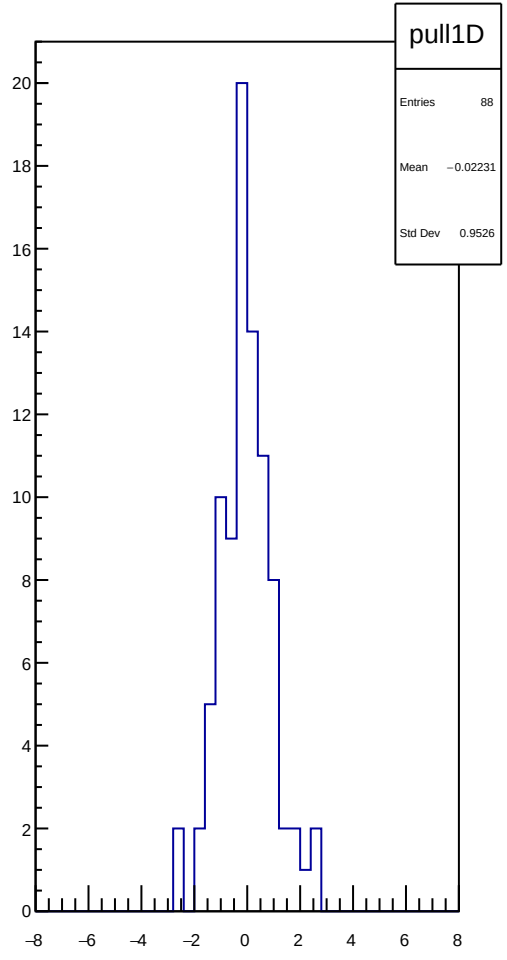

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8626 / 87
p0 179.3 ± 0.1389
220
210
200
190
180
170
160
150

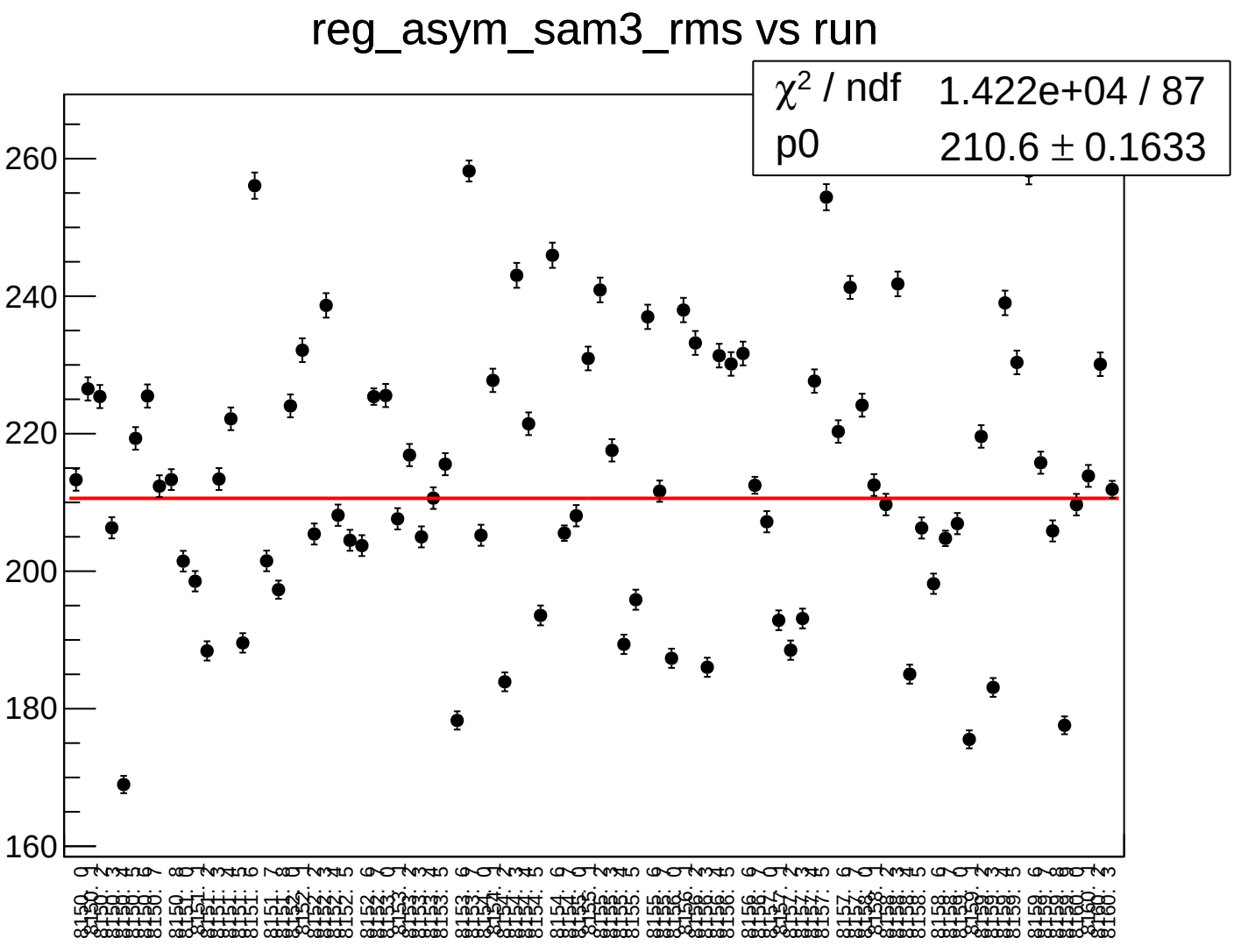

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.8 / 87
p0 −2.778e−14 ± 1.79e−13
pull
Entries 88
Mean −1852
Std Dev 0

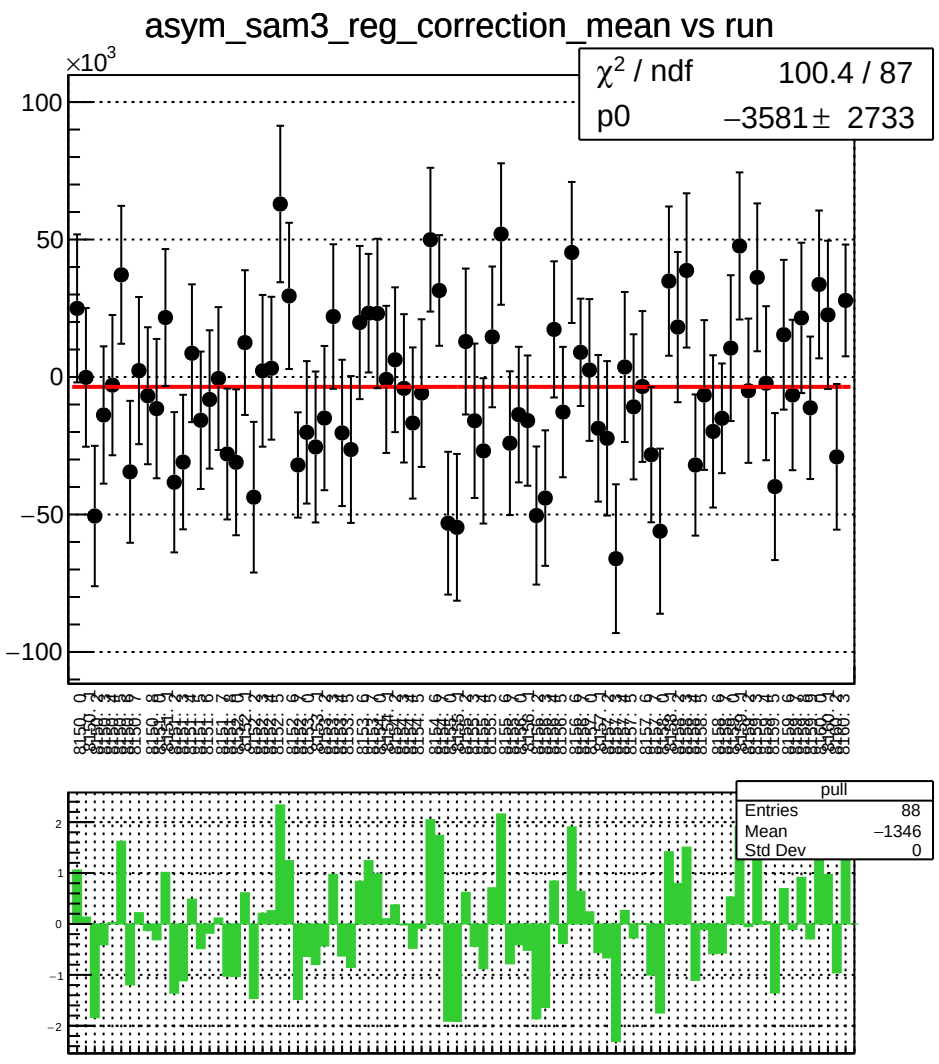

pull1D
Entries 88
Mean 0.0004052
Std Dev 1.097

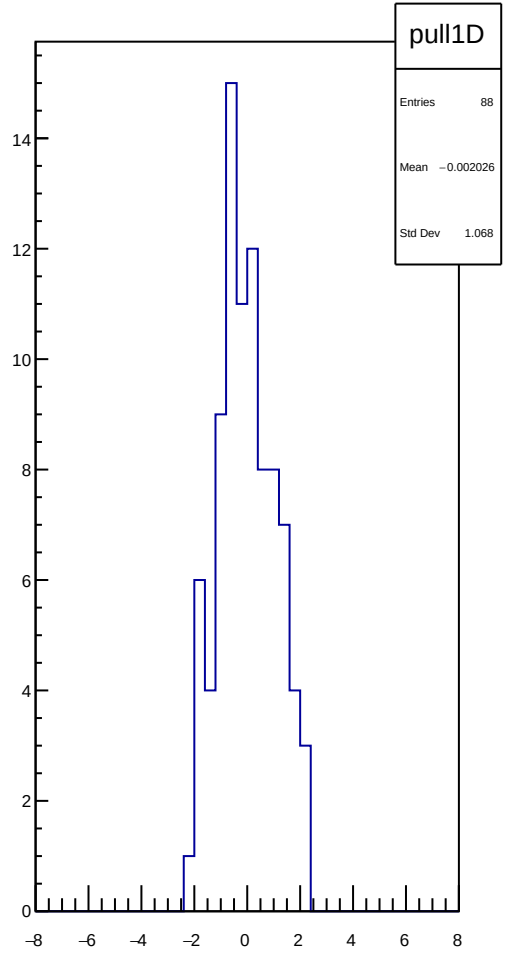

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.928e+05 / 87
p0 1.377e−10 ± 1.266e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

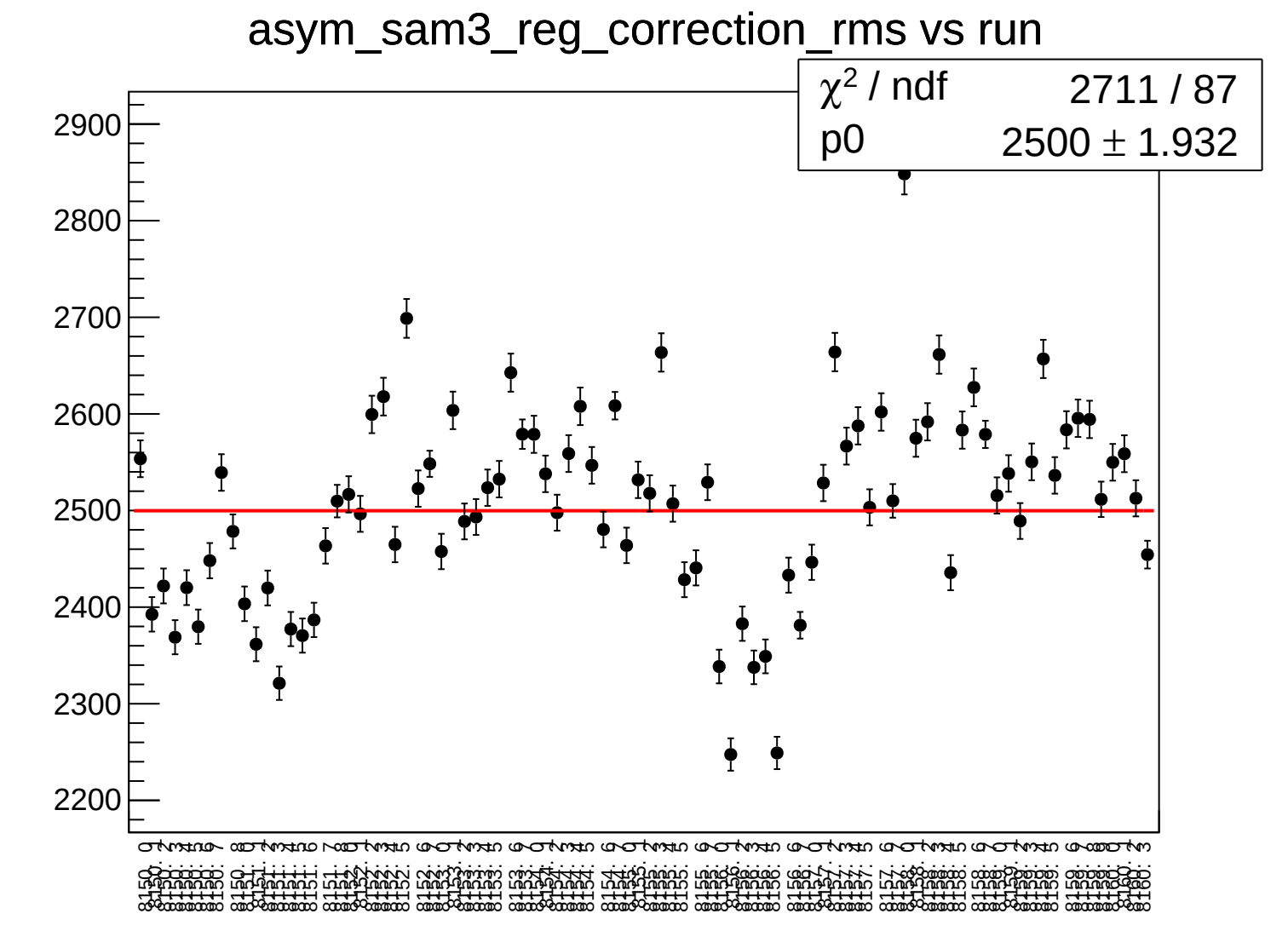

reg_asym_sam3_mean vs run
χ² / ndf 79.9 / 87
p0 83.43 ± 231
pull
Entries 88
Mean 27.14
Std Dev 0

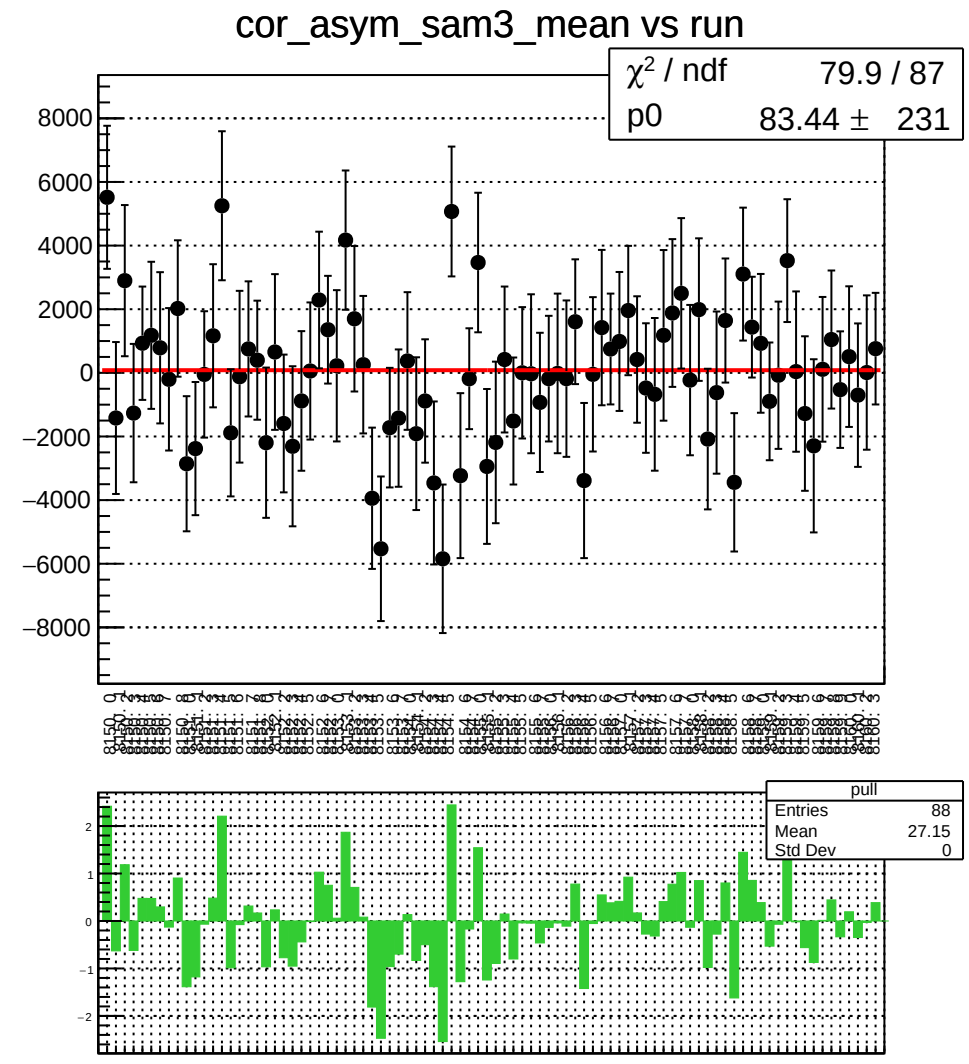

pull1D
Entries 88
Mean −0.02231
Std Dev 0.9526

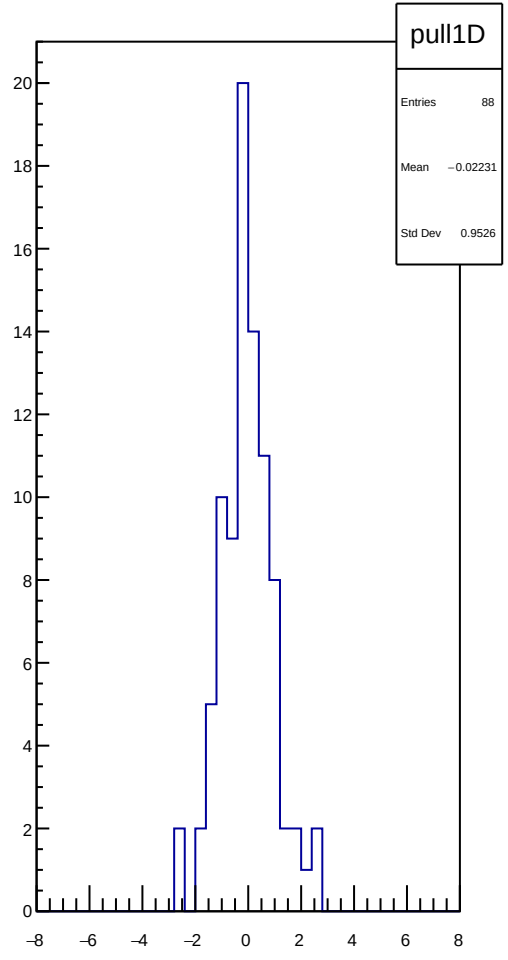

reg_asym_sam3_rms vs run
χ² / ndf 1.422e+04 / 87
p0 210.6 ± 0.1633
260
240
220
200
180
160

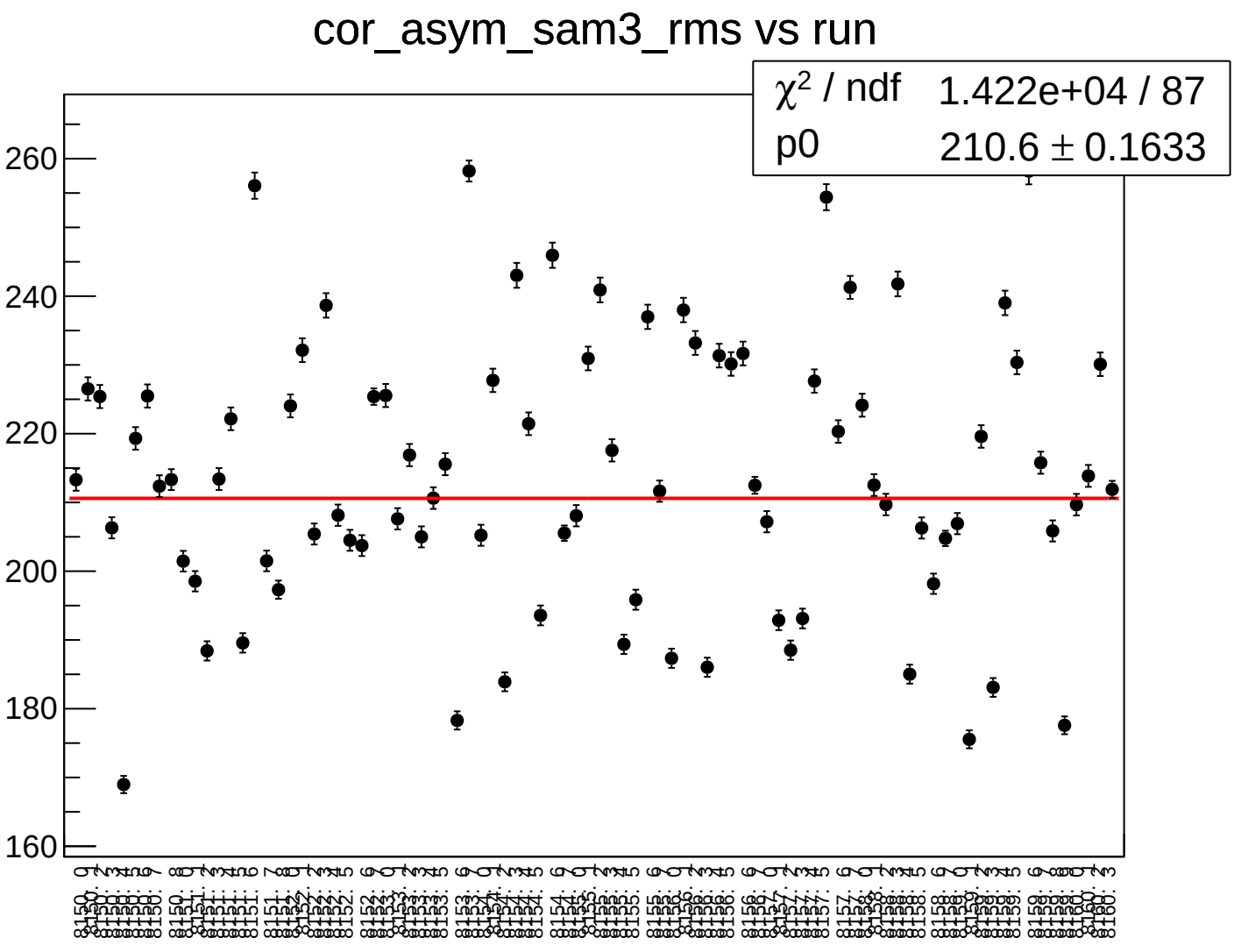

asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 100.4 / 87
p0 −3581 ± 2733
100
50
0
−50
−100
pull
Entries 88
Mean −1346
Std Dev 0
2
1
0
−1
−2

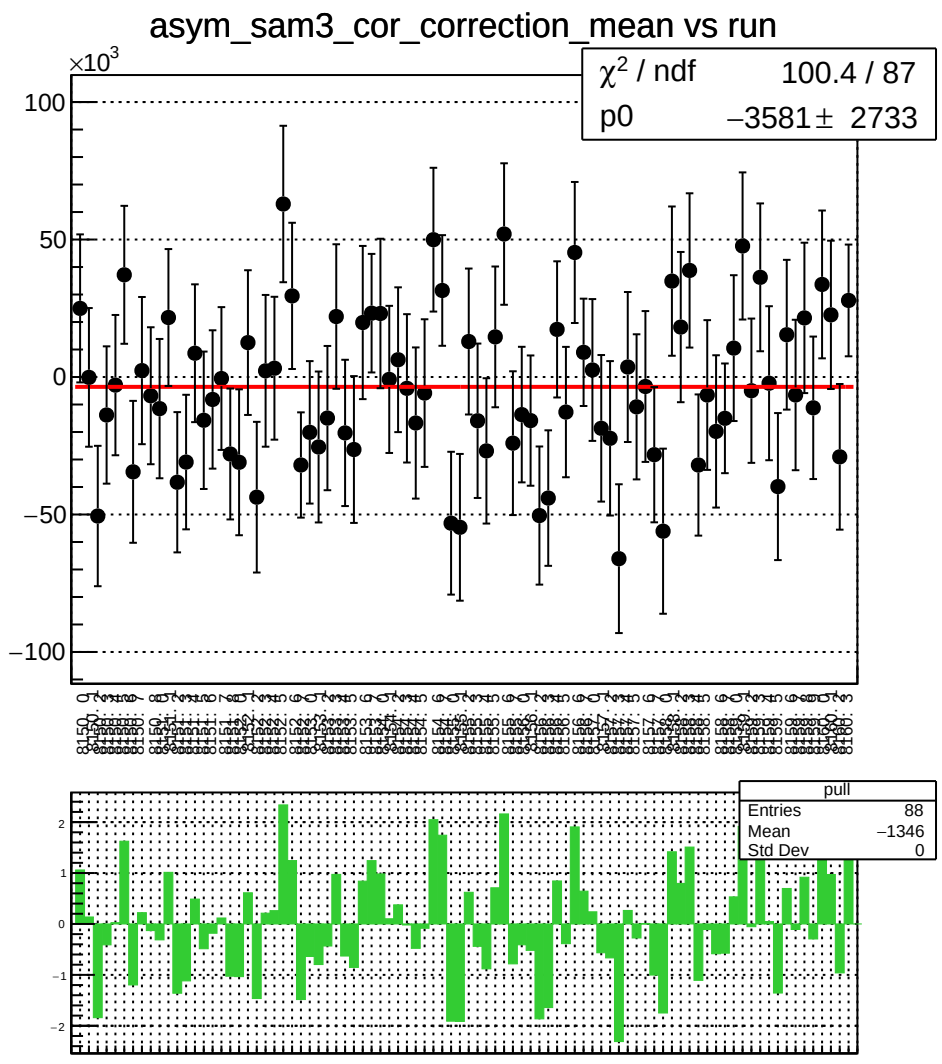

pull1D
Entries 88
Mean −0.002026
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

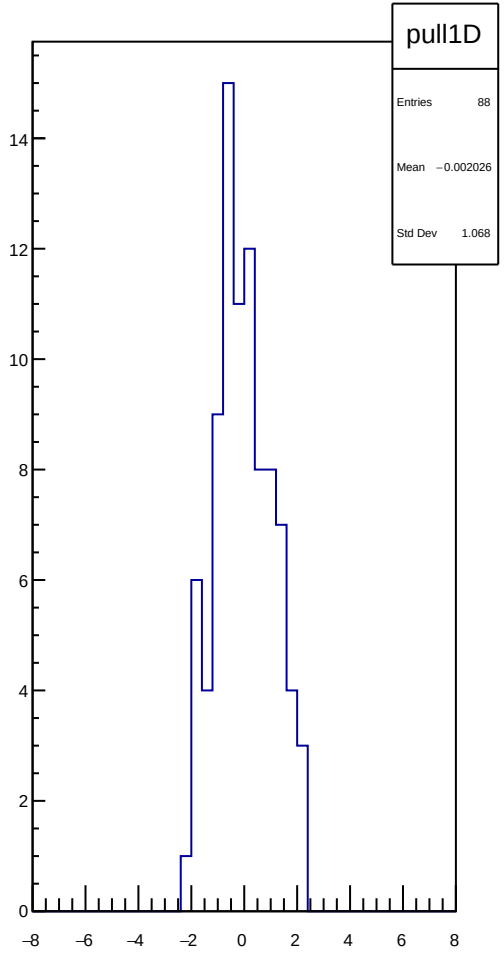

asym_sam3_reg_correction_rms vs run
χ² / ndf 2711 / 87
p0 2500 ± 1.932
2900
2800
2700
2600
2500
2400
2300
2200

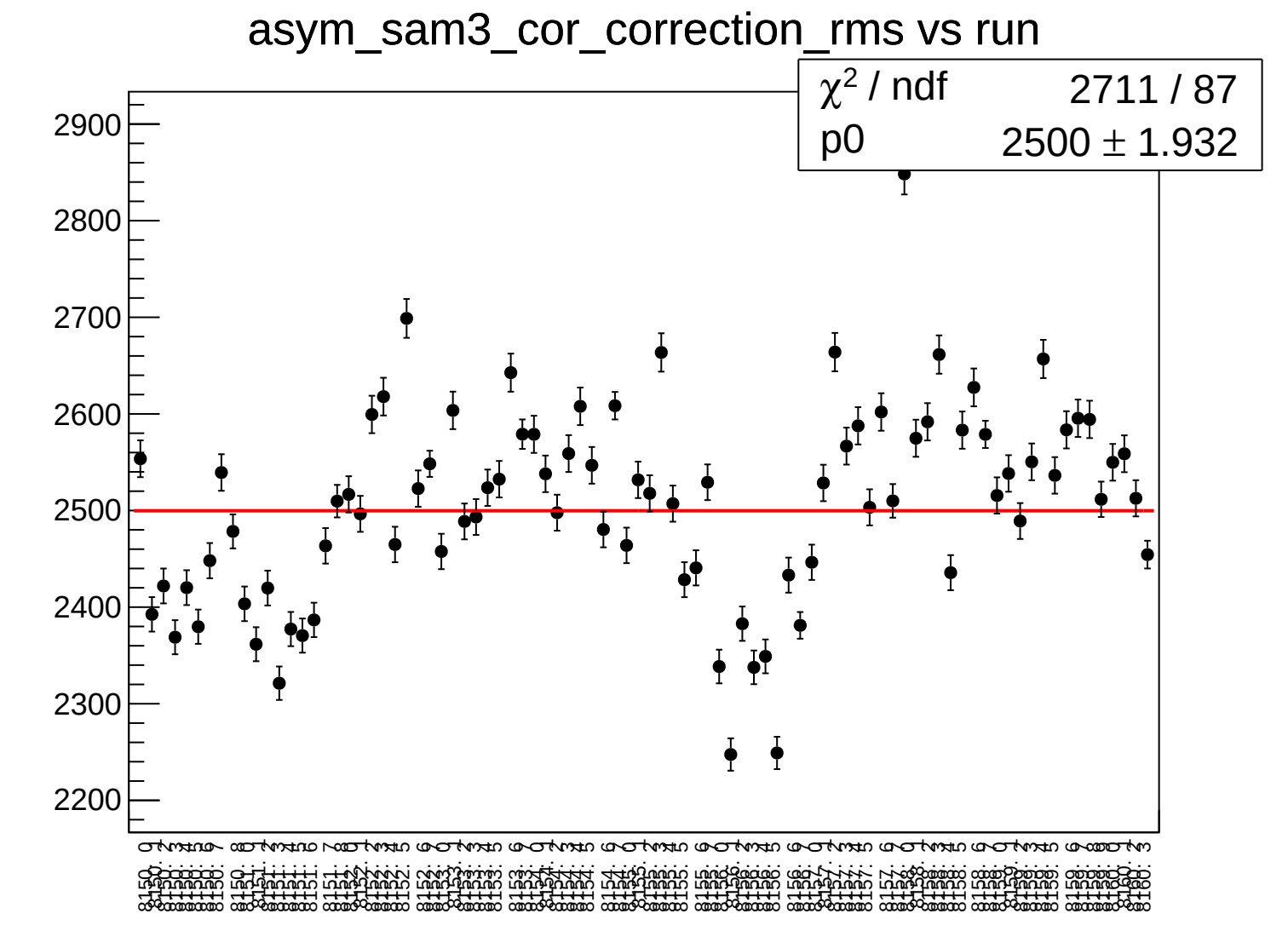

cor_asym_sam3_mean vs run
χ² / ndf 79.9 / 87
p0 83.44 ± 231
pull
Entries 88
Mean 27.15
Std Dev 0

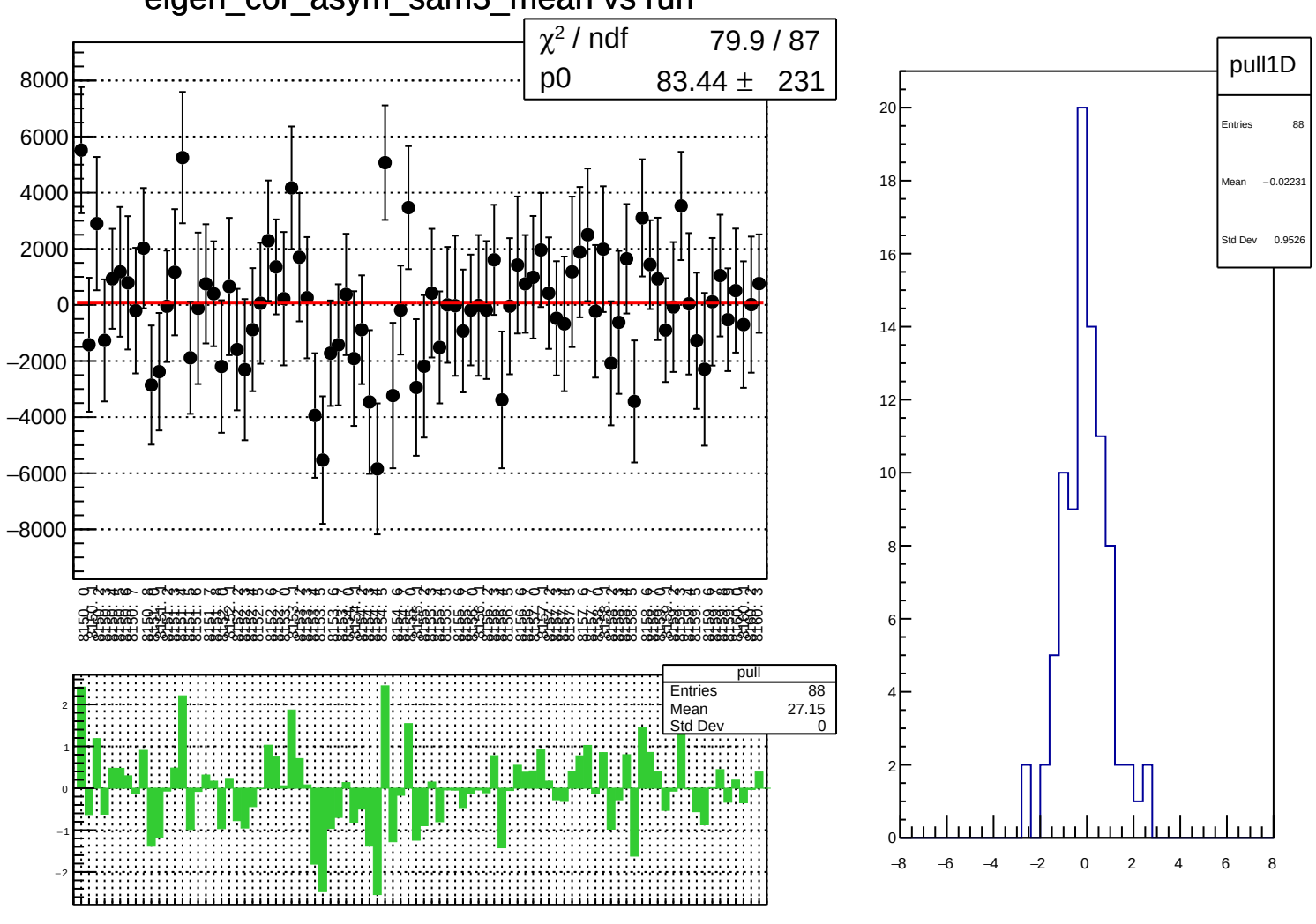

pull1D
Entries 88
Mean −0.02231
Std Dev 0.9526

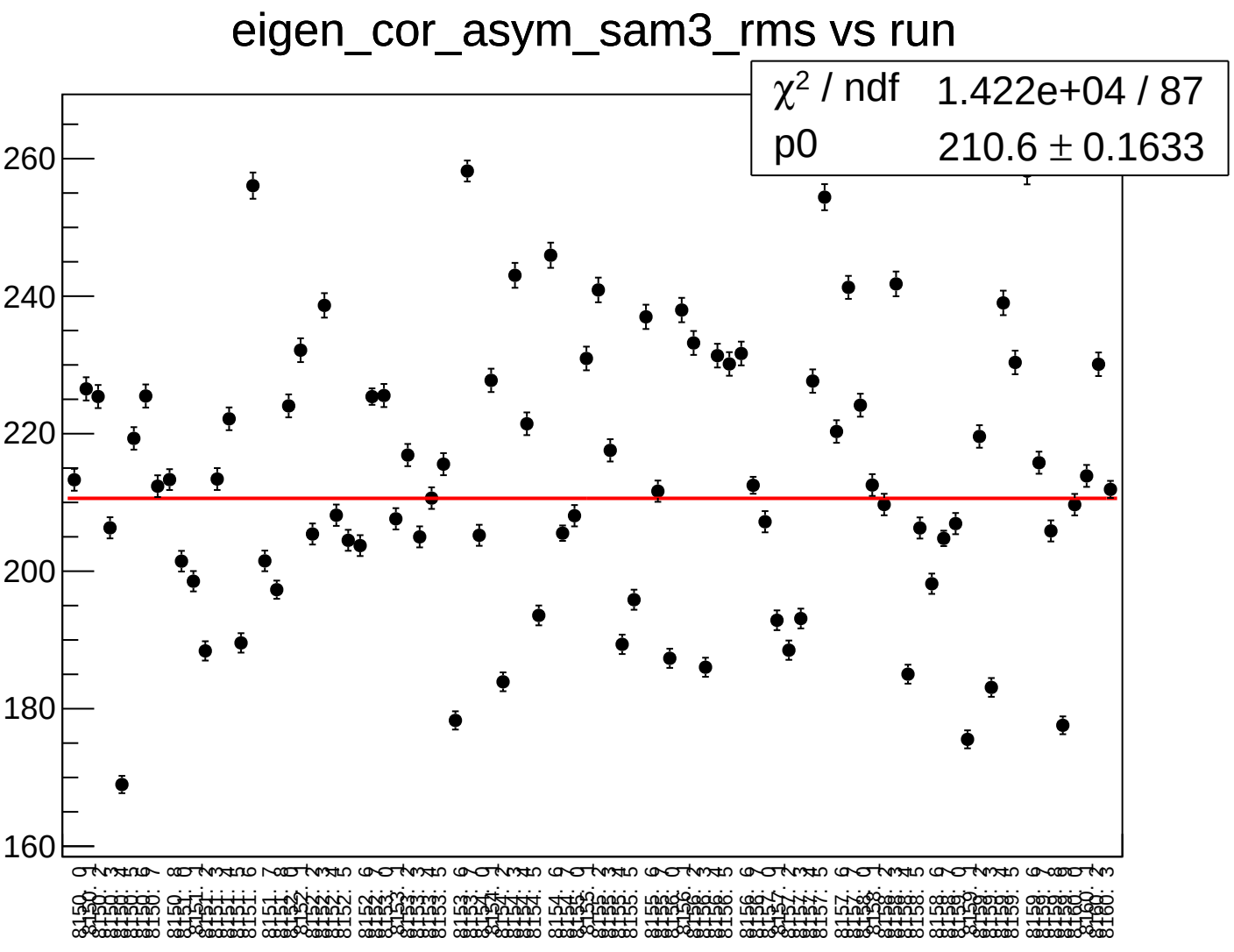

cor_asym_sam3_rms vs run
χ² / ndf 1.422e+04 / 87
p0 210.6 ± 0.1633
260
240
220
200
180
160

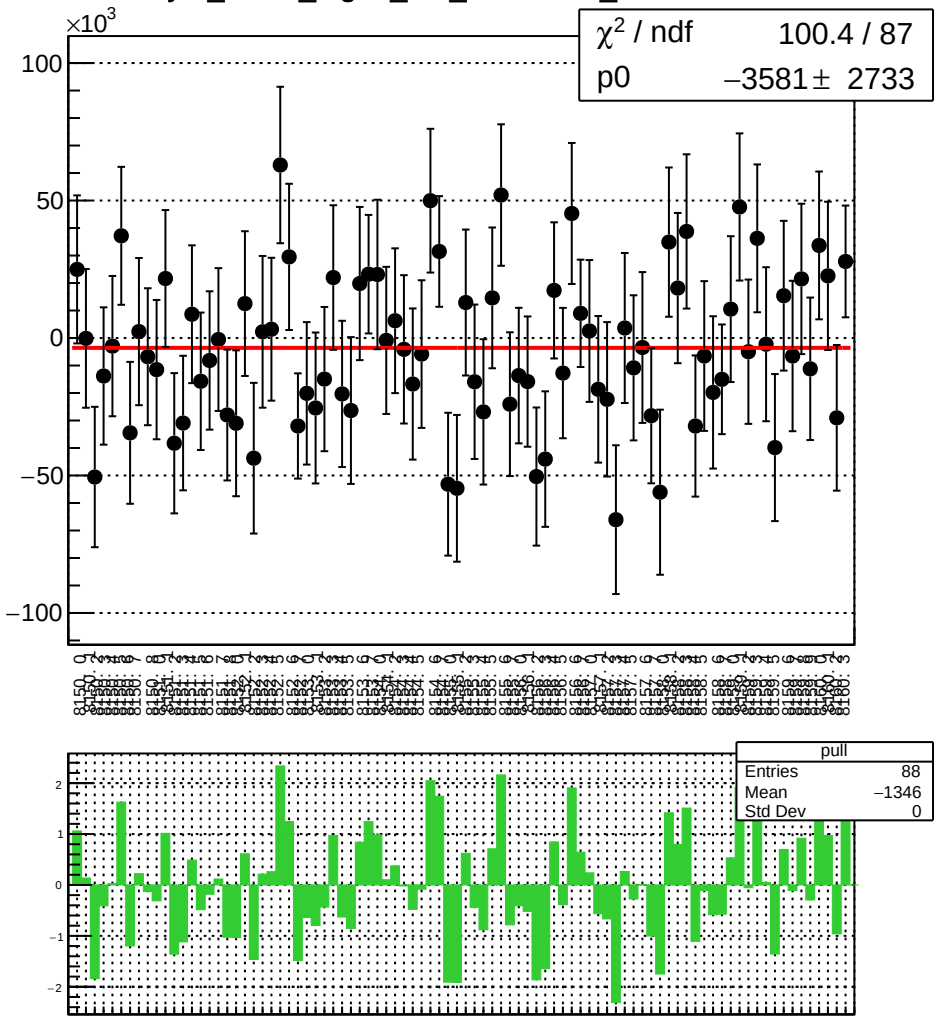

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 100.4 / 87
p0 −3581 ± 2733
pull
Entries 88
Mean −1346
Std Dev 0

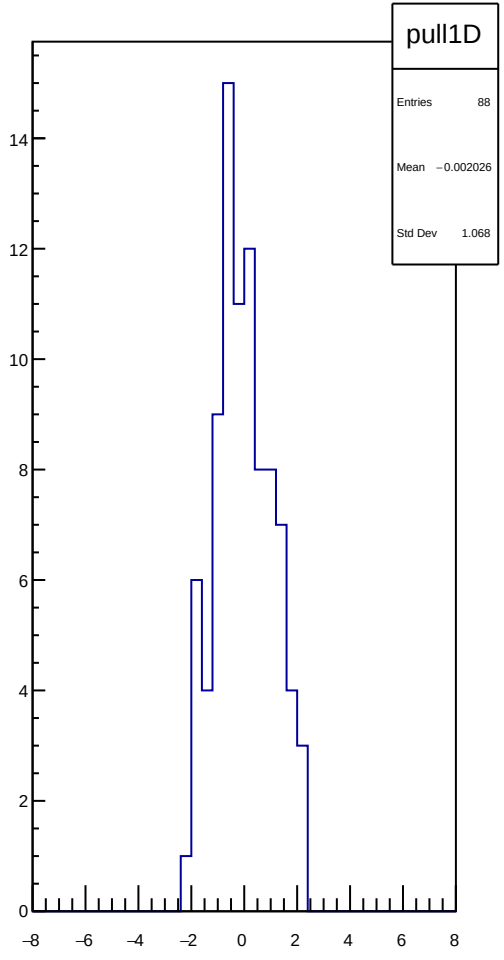

pull1D
Entries 88
Mean −0.002026
Std Dev 1.068

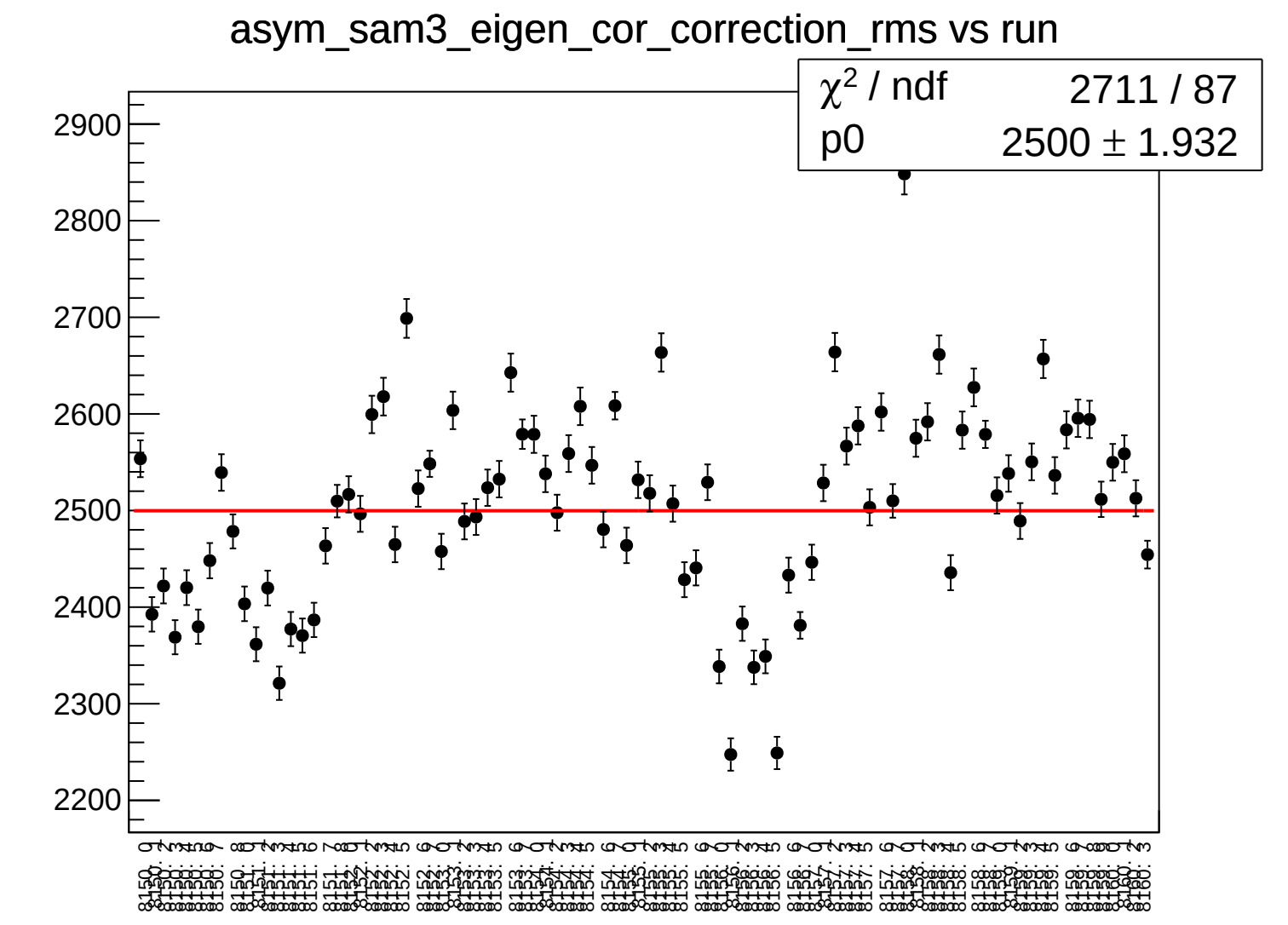

asym_sam3_cor_correction_rms vs run
χ² / ndf 2711 / 87
p0 2500 ± 1.932
2900
2800
2700
2600
2500
2400
2300
2200

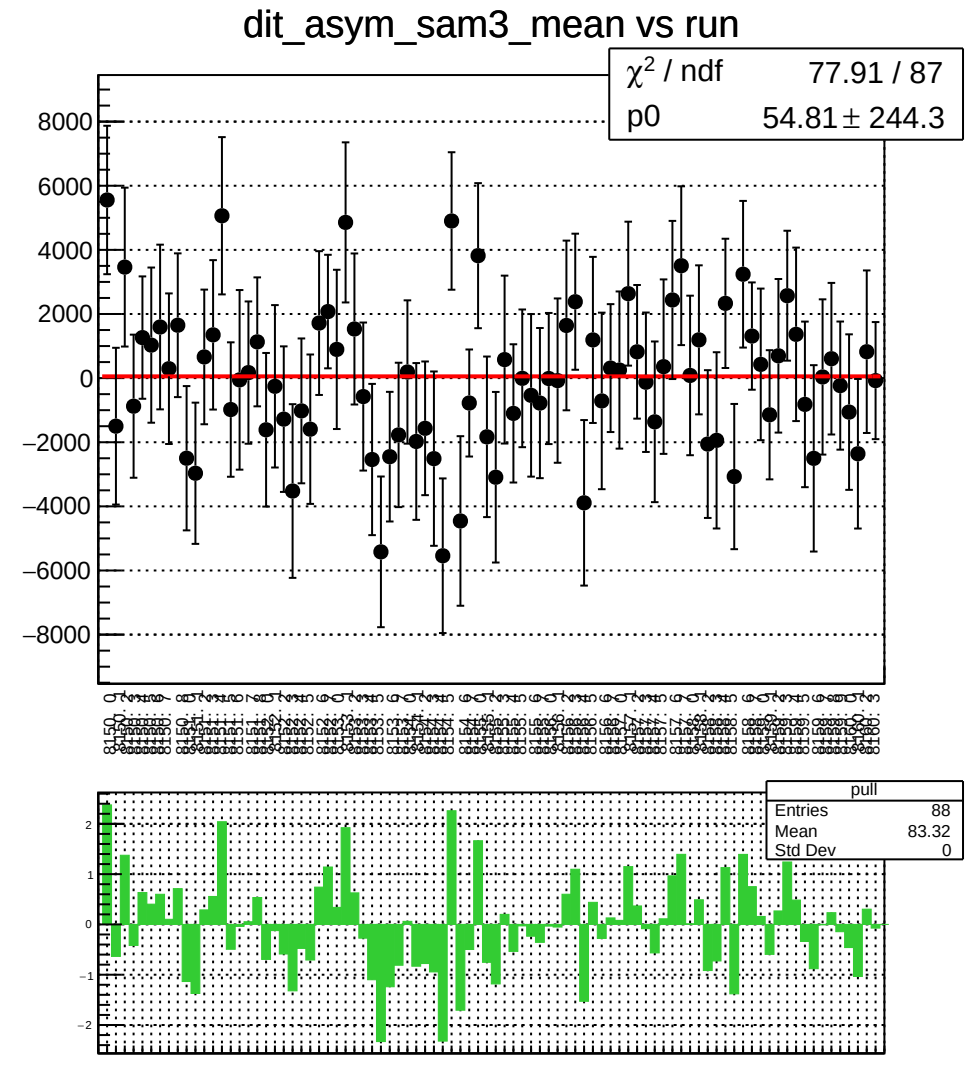

eigen_cor_asym_sam3_mean vs run
χ² / ndf 79.9 / 87
p0 83.44 ± 231
pull
Entries 88
Mean 27.15
Std Dev 0
pull1D
Entries 88
Mean −0.02231
Std Dev 0.9526

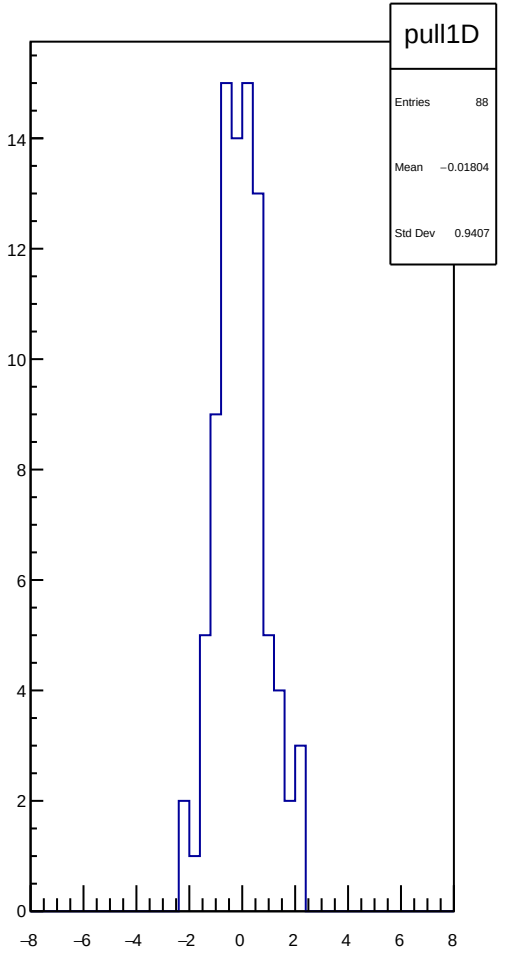

eigen_cor_asym_sam3_rms vs run
χ² / ndf 1.422e+04 / 87
p0 210.6 ± 0.1633
260
240
220
200
180
160

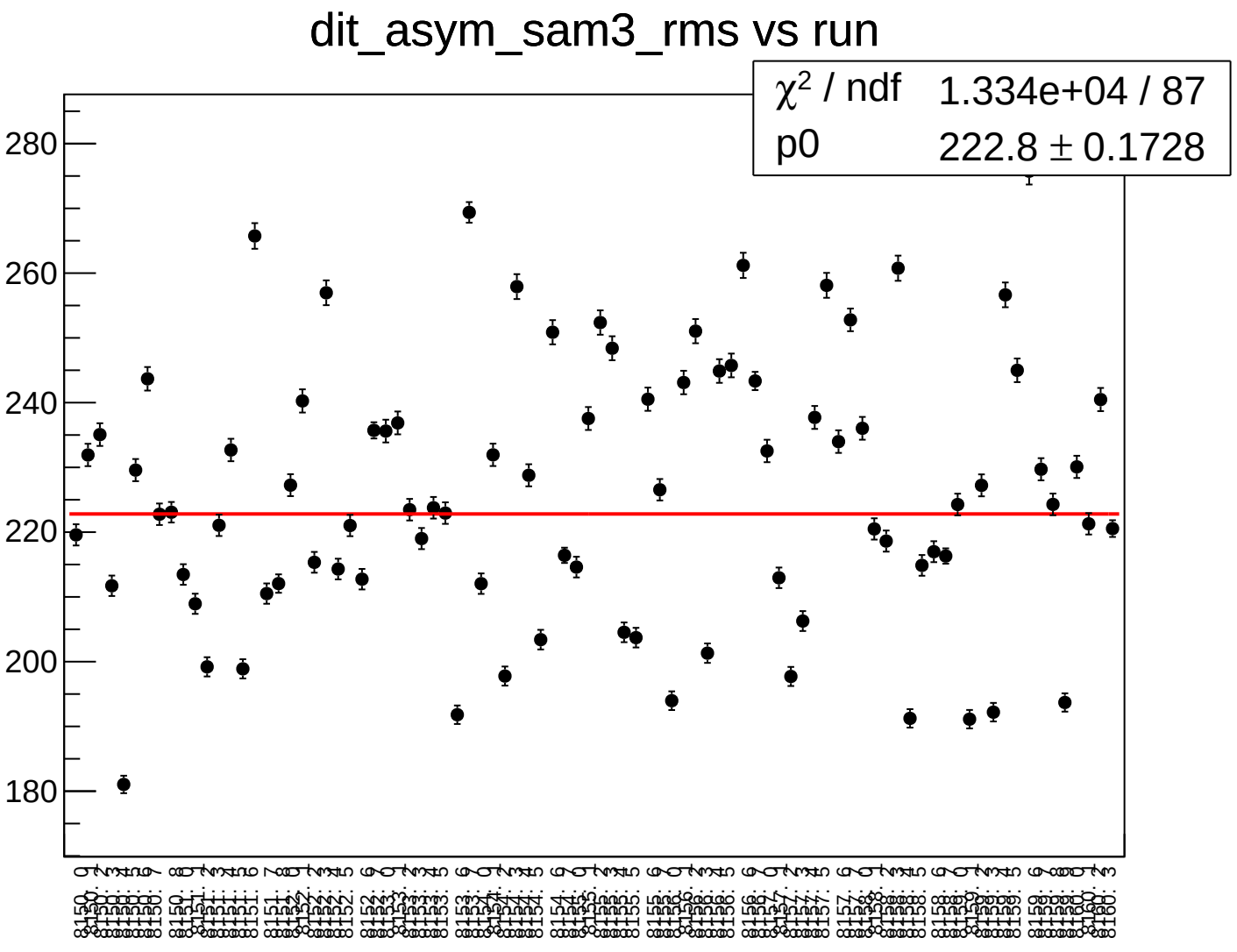

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.4 / 87
p0 −3581 ± 2733
100
50
0
−50
−100
pull
Entries 88
Mean −1346
Std Dev 0
2
1
0
−1
−2

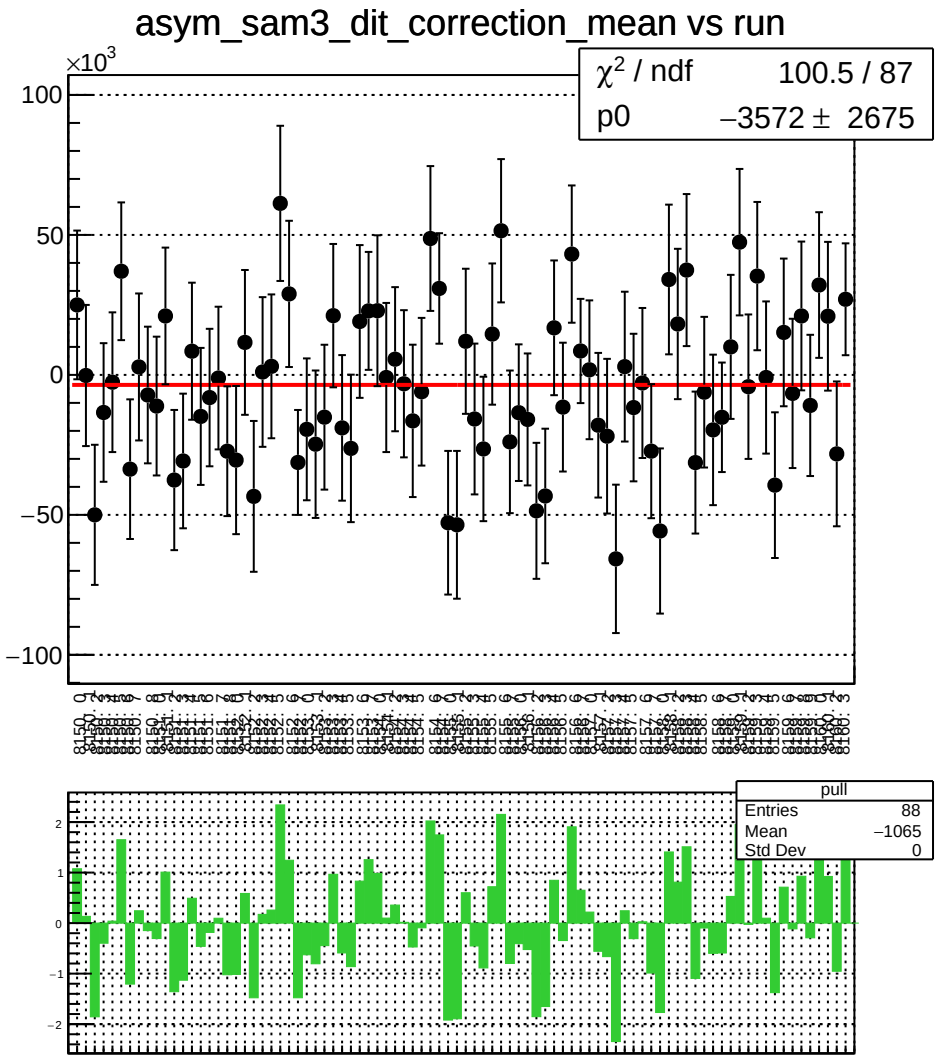

pull1D
Entries 88
Mean −0.002026
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

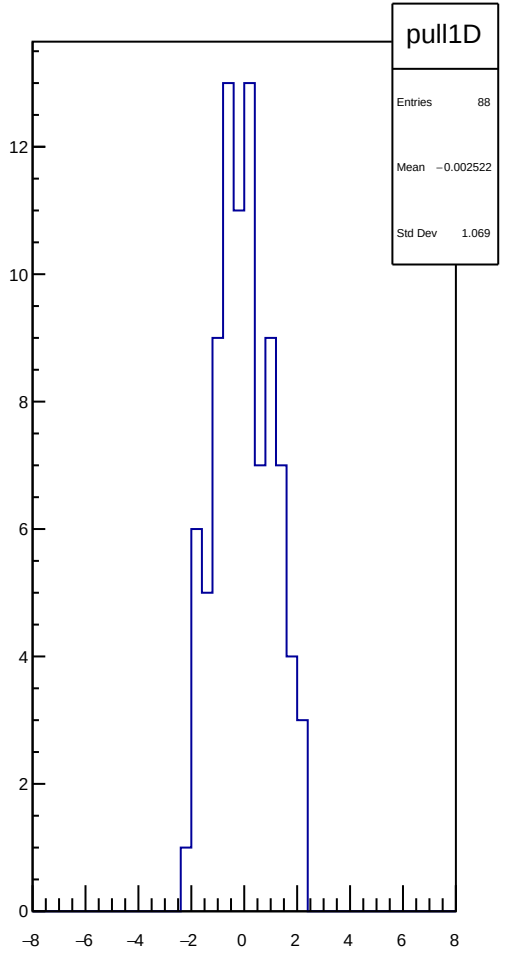

asym_sam3_eigen_cor_correction_rms vs run
χ^2 / ndf 2711 / 87
p0 2500 ± 1.932
2900
2800
2700
2600
2500
2400
2300
2200

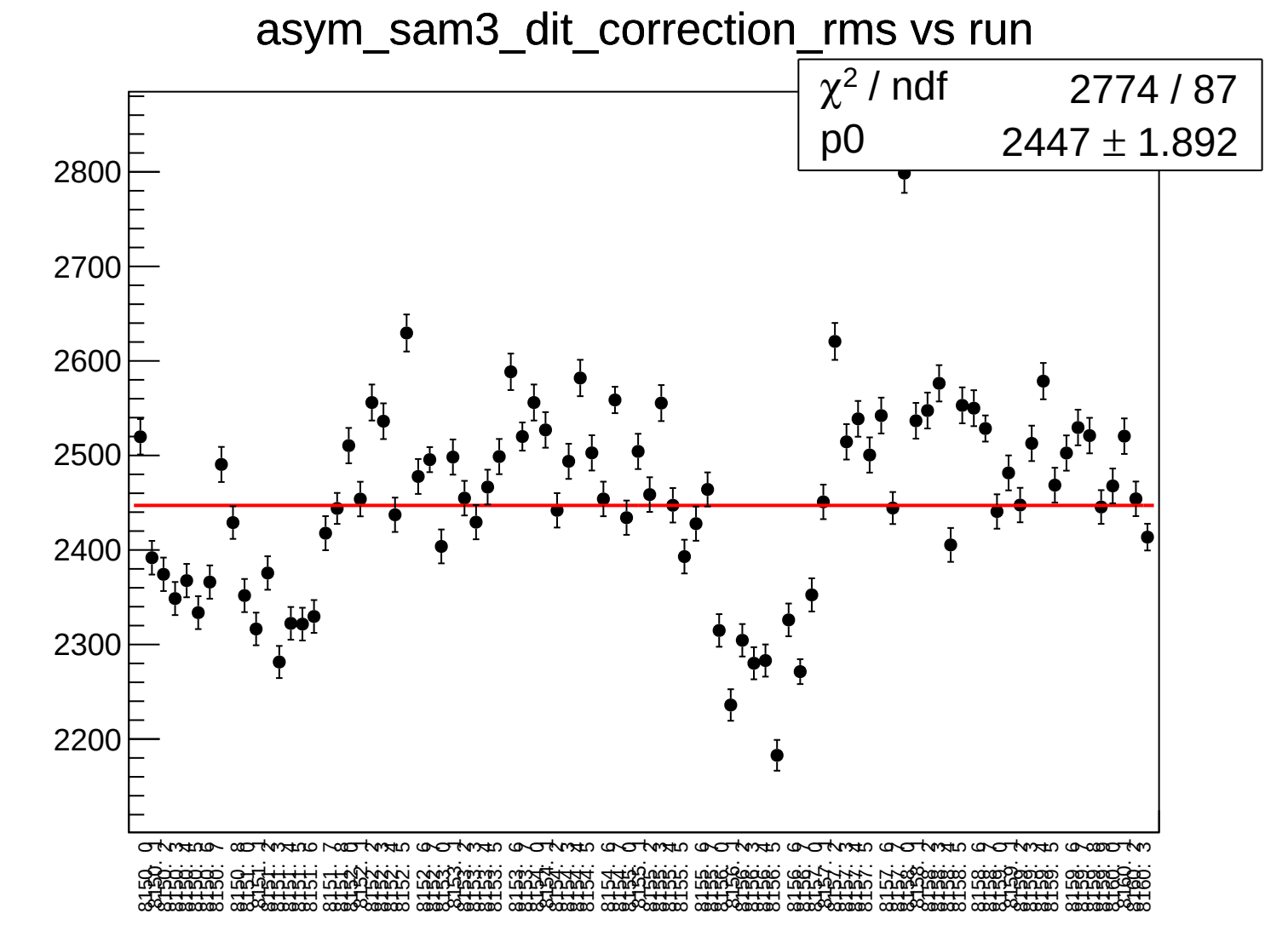

dit_asym_sam3_mean vs run
χ² / ndf 77.91 / 87
p0 54.81 ± 244.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean 83.32
Std Dev 0
2
1
0
−1
−2

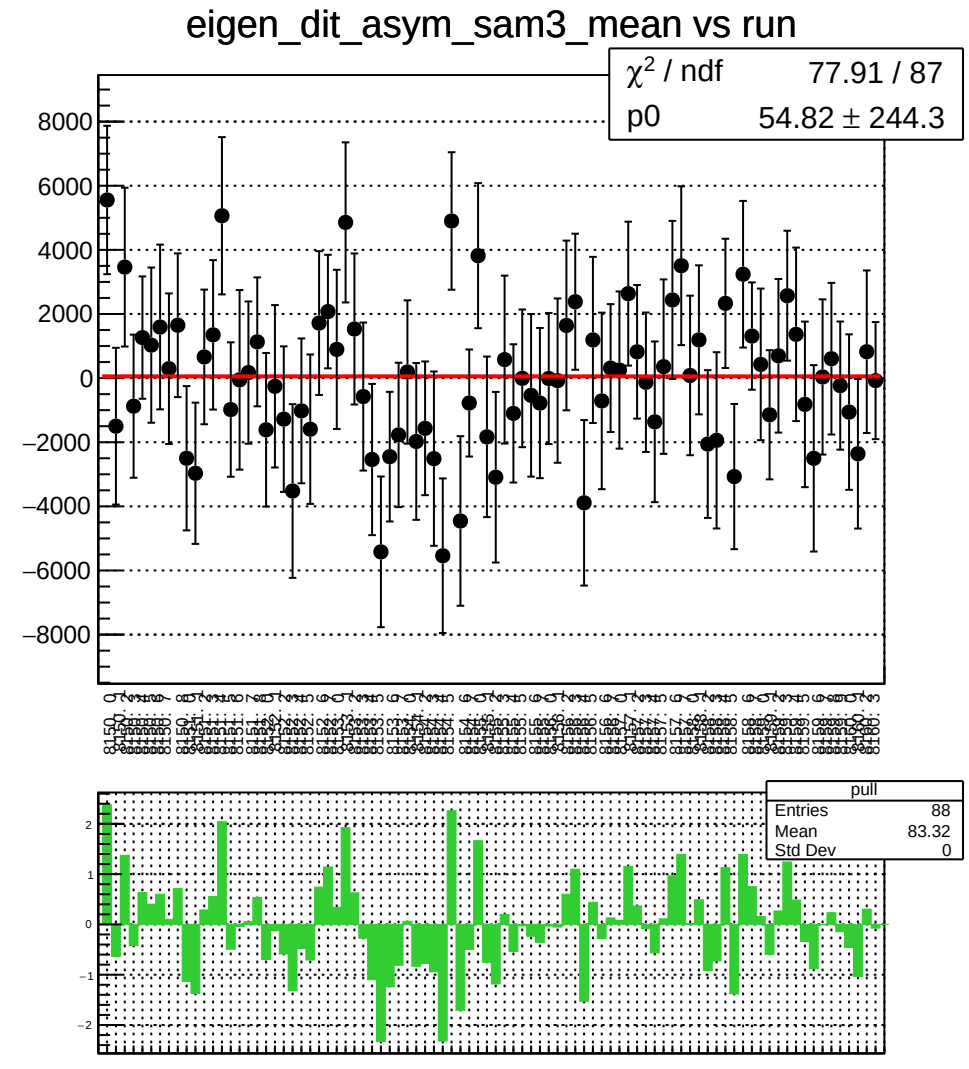

pull1D
Entries 88
Mean −0.01804
Std Dev 0.9407
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

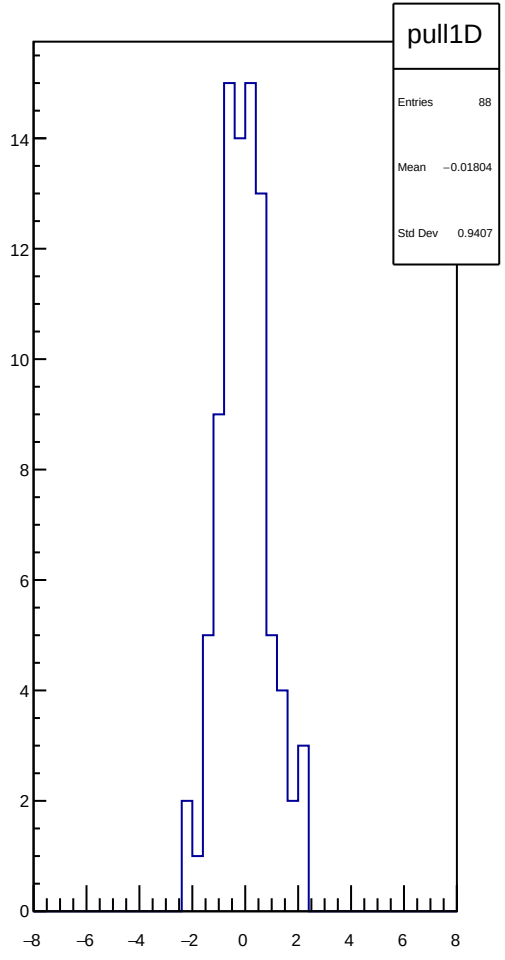

dit_asym_sam3_rms vs run
χ² / ndf 1.334e+04 / 87
p0 222.8 ± 0.1728
280
260
240
220
200
180

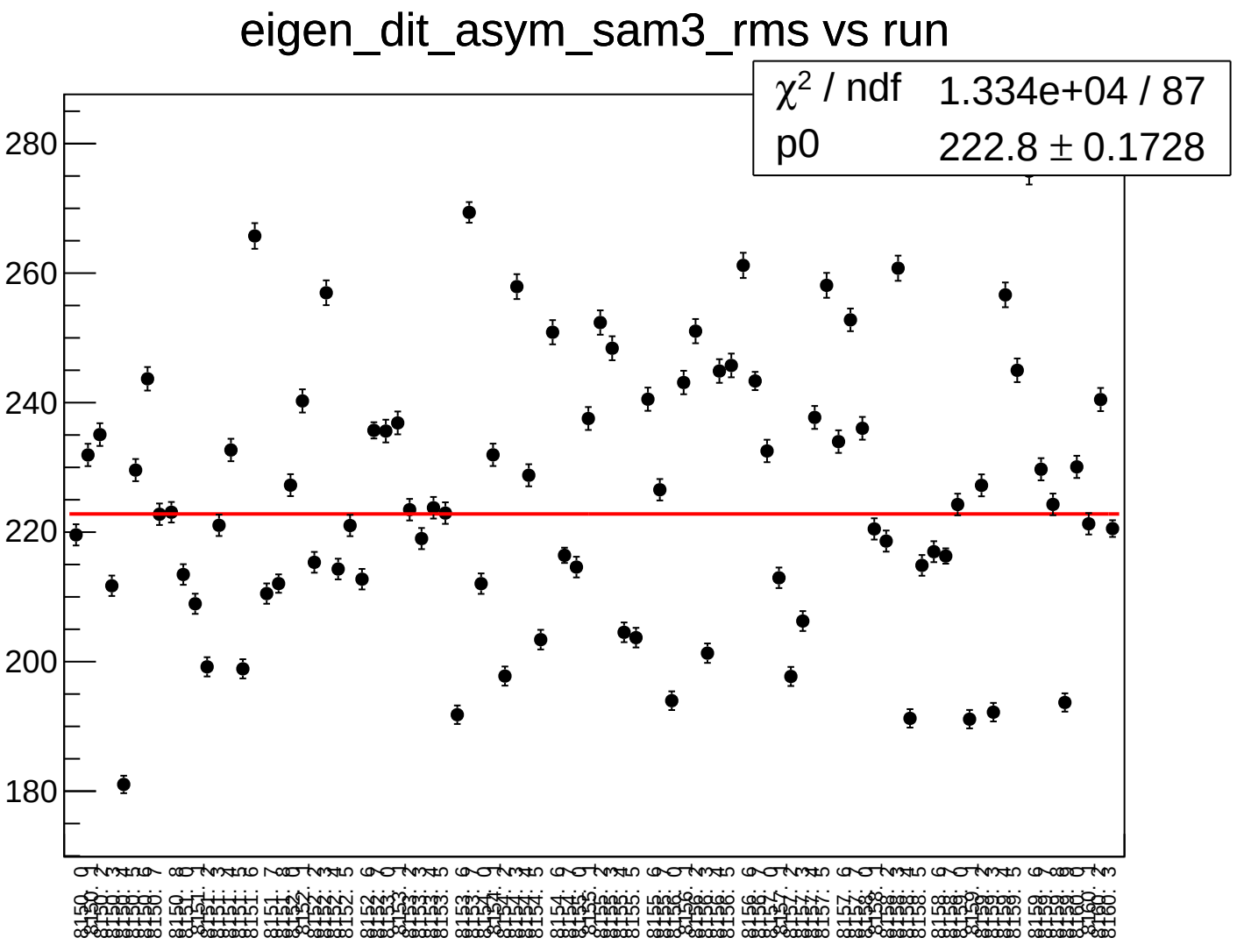

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 100.5 / 87
p0 −3572 ± 2675
100
50
0
−50
−100
pull
Entries 88
Mean −1065
Std Dev 0
2
1
0
−1
−2

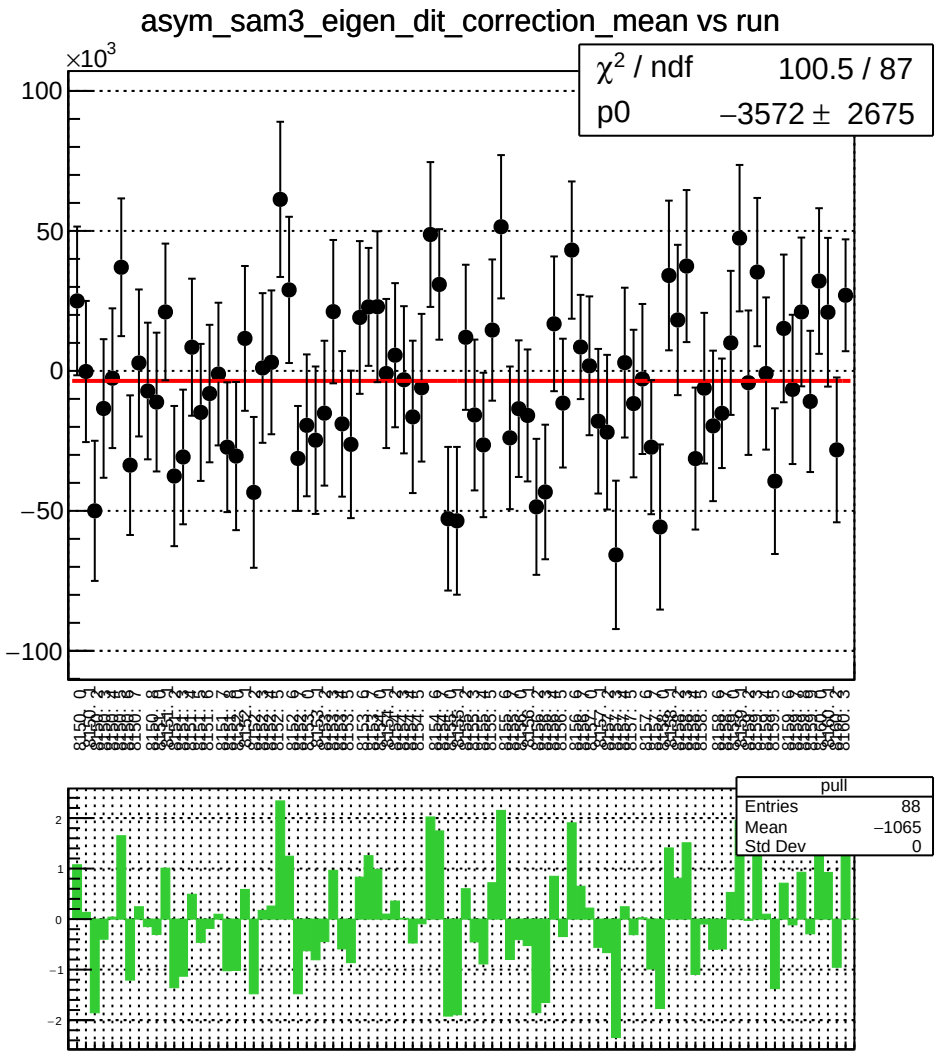

pull1D
Entries 88
Mean −0.002522
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

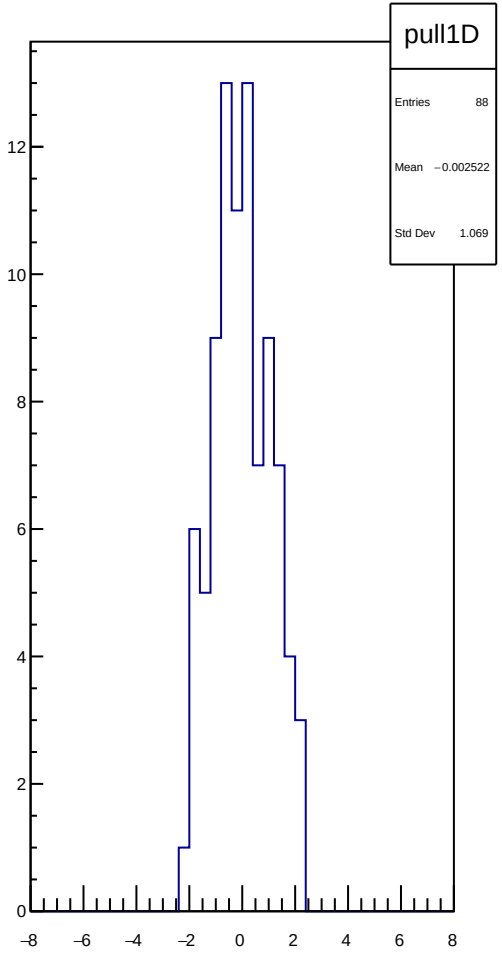

asym_sam3_dit_correction_rms vs run
χ² / ndf 2774 / 87
p0 2447 ± 1.892
2800
2700
2600
2500
2400
2300
2200

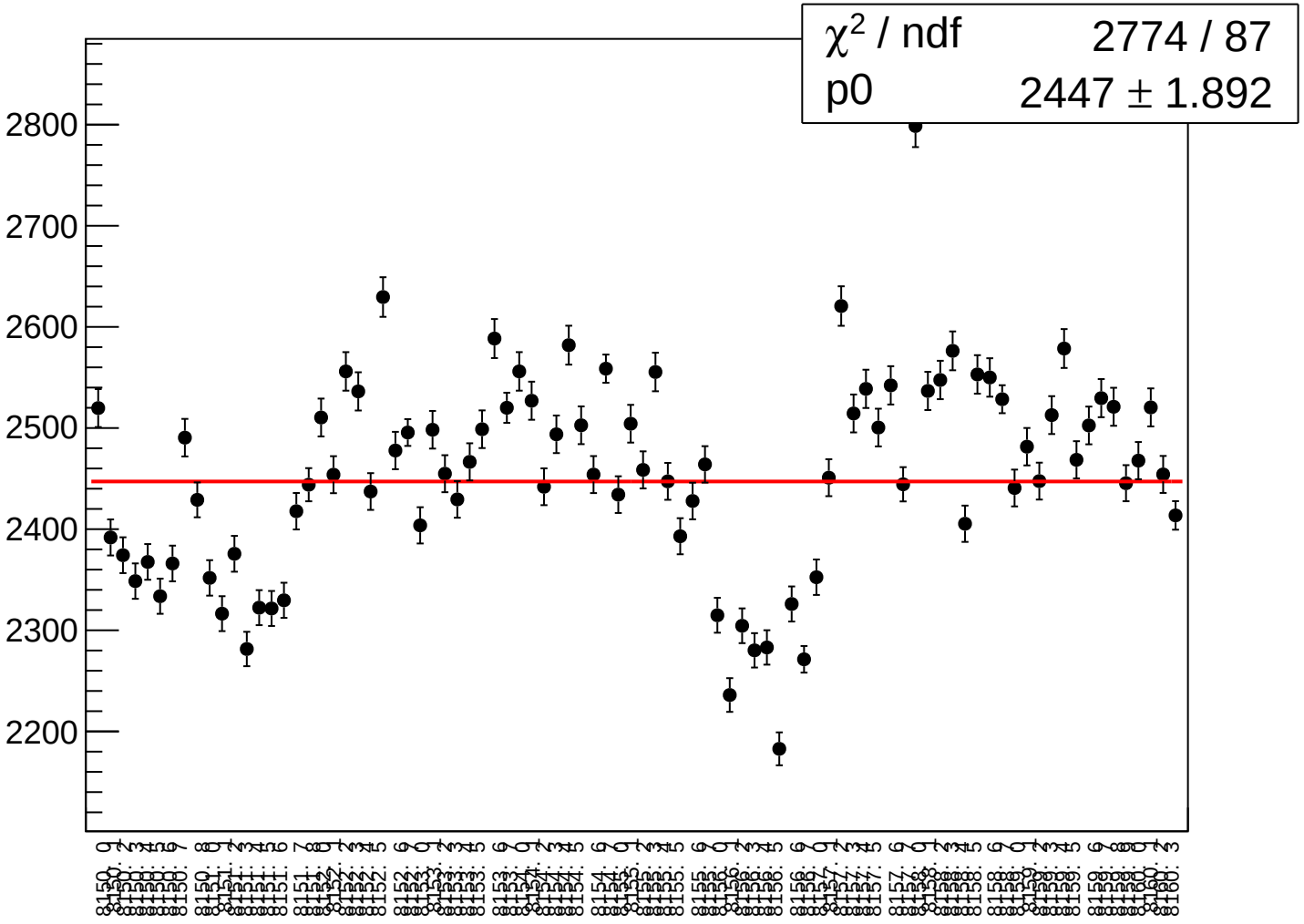

eigen_dit_asym_sam3_mean vs run
χ² / ndf 77.91 / 87
p0 54.82 ± 244.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean 83.32
Std Dev 0
2
1
0
−1
−2

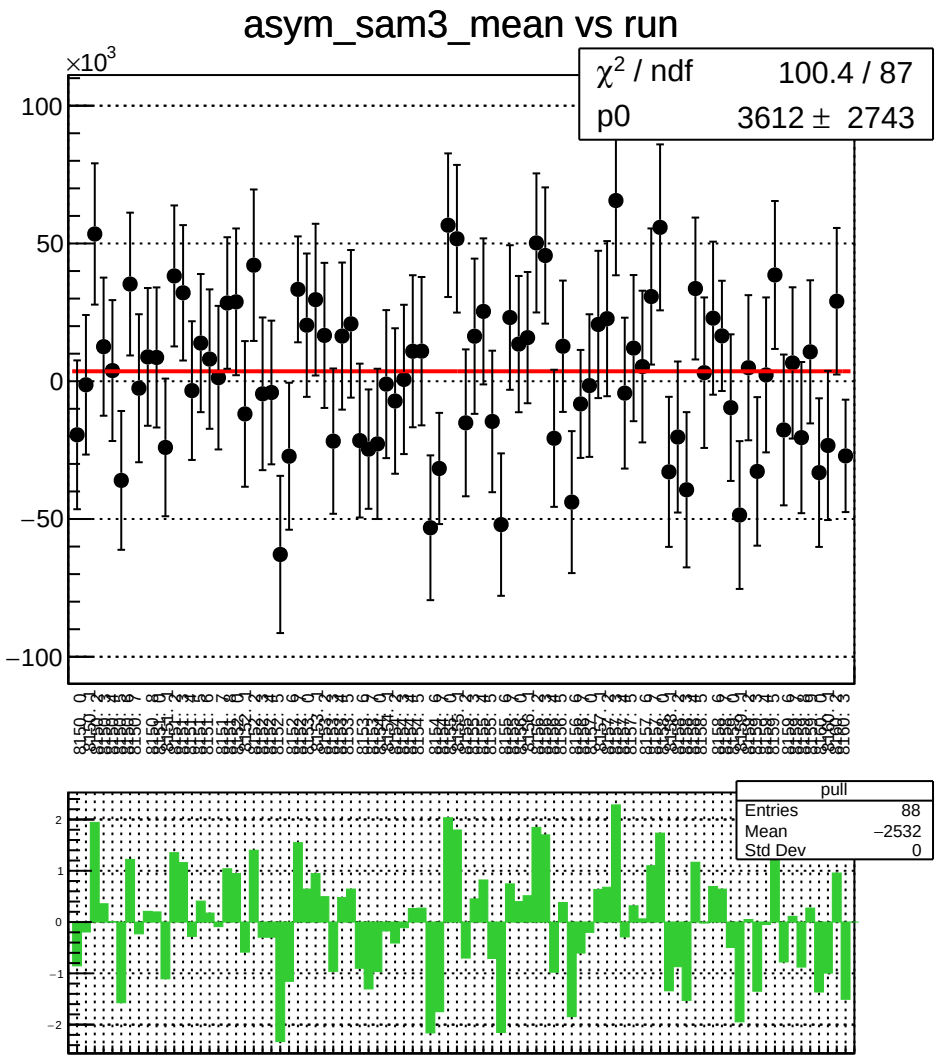

pull1D
Entries 88
Mean −0.01804
Std Dev 0.9407
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

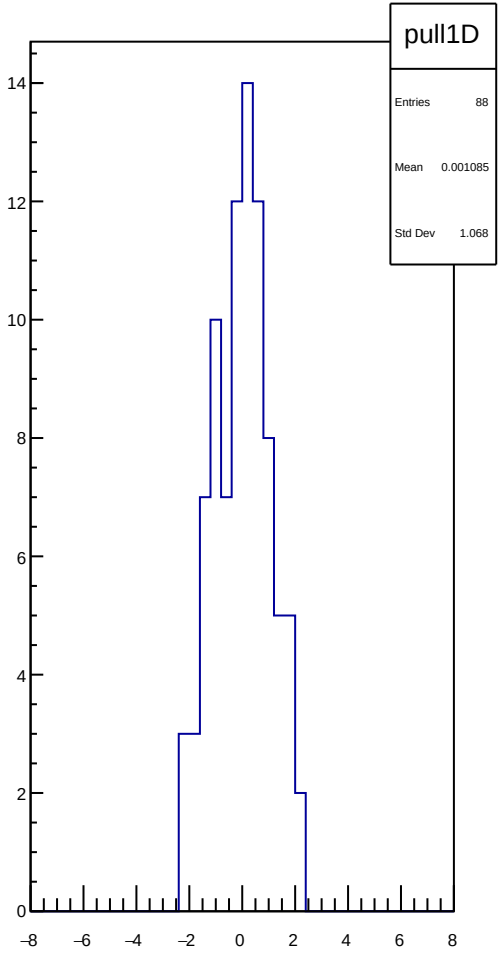

eigen_dit_asym_sam3_rms vs run
χ² / ndf 1.334e+04 / 87
p0 222.8 ± 0.1728
280
260
240
220
200
180

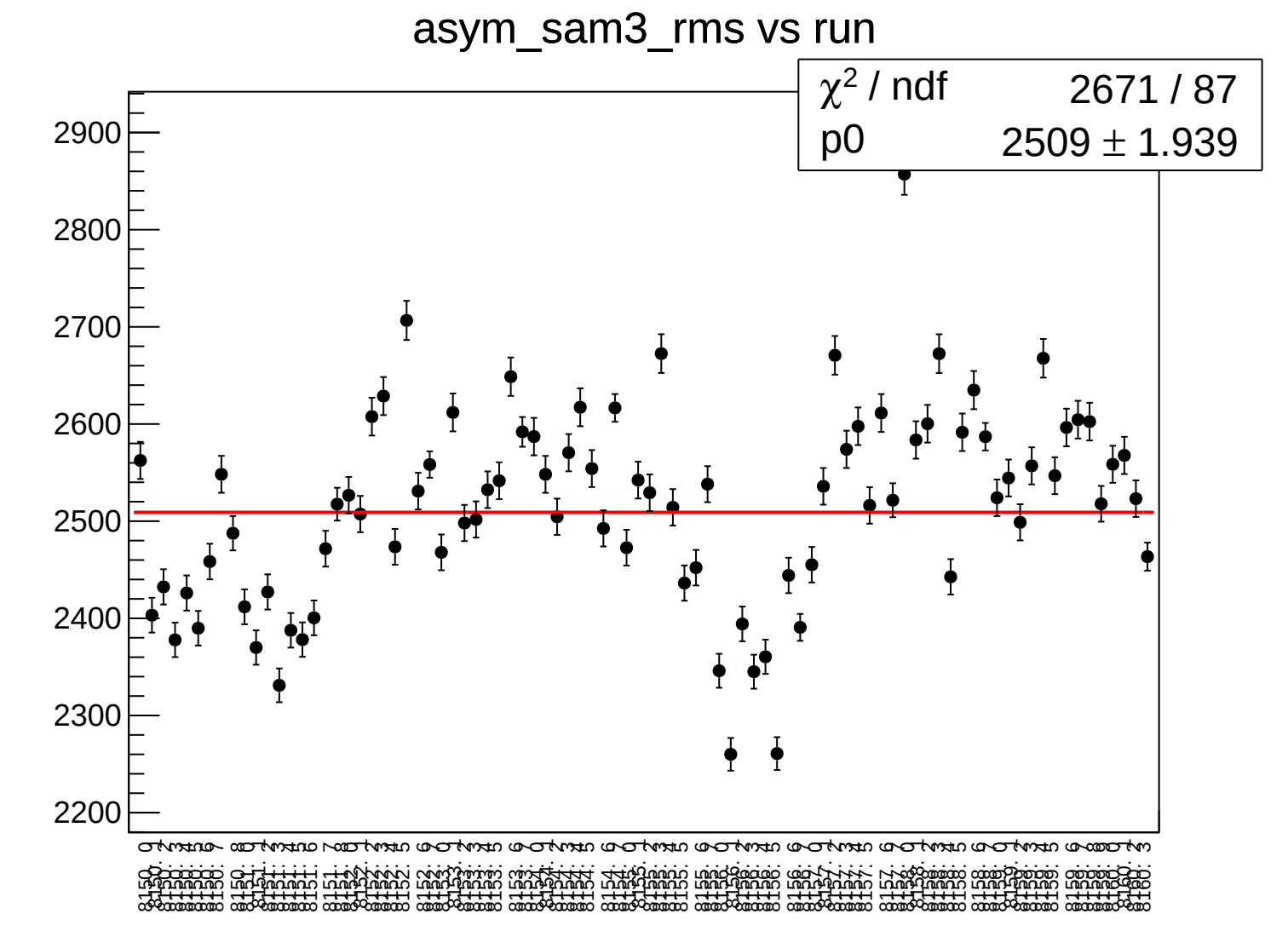

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.5 / 87
p0 −3572 ± 2675
100
50
0
−50
−100
pull
Entries 88
Mean −1065
Std Dev 0
2
1
0
−1
−2

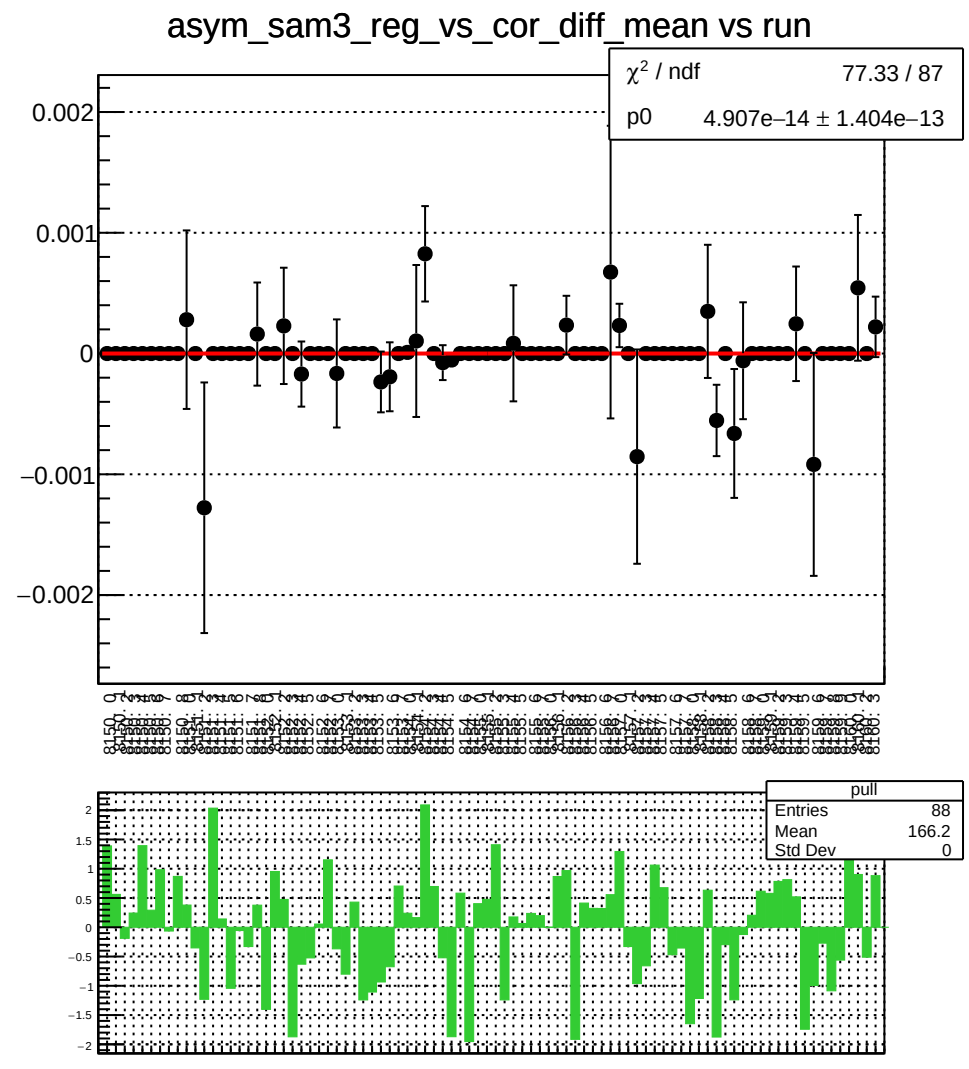

pull1D
Entries 88
Mean −0.002522
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

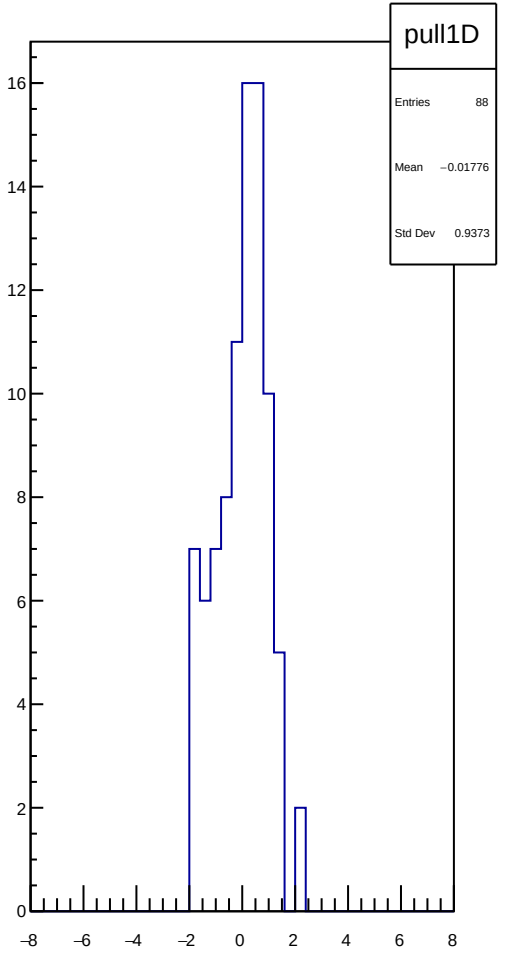

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 2774 / 87
p0 2447 ± 1.892
2800
2700
2600
2500
2400
2300
2200

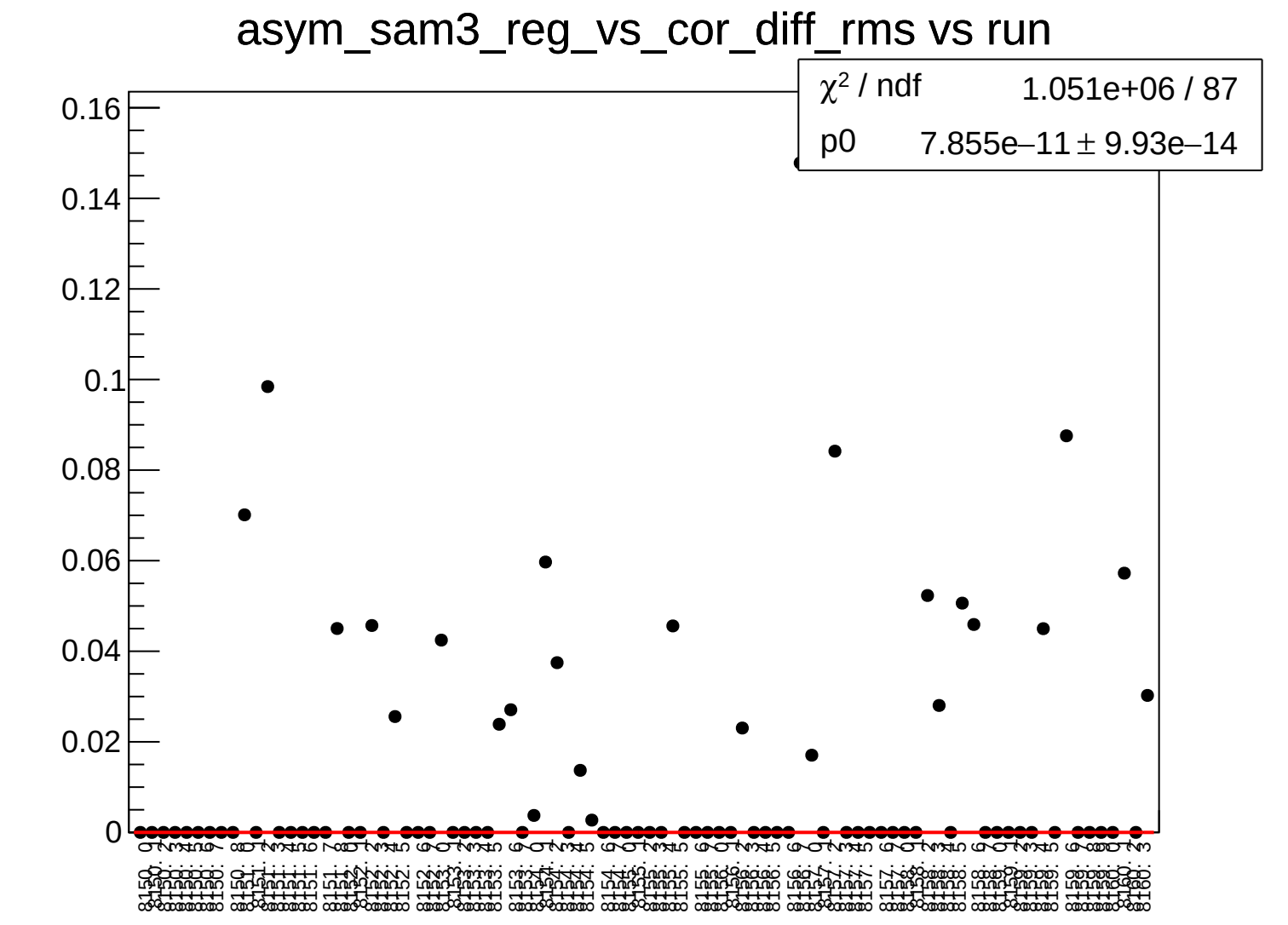

asym_sam3_mean vs run
×10^3
χ² / ndf 100.4 / 87
p0 3612 ± 2743
pull
Entries 88
Mean −2532
Std Dev 0

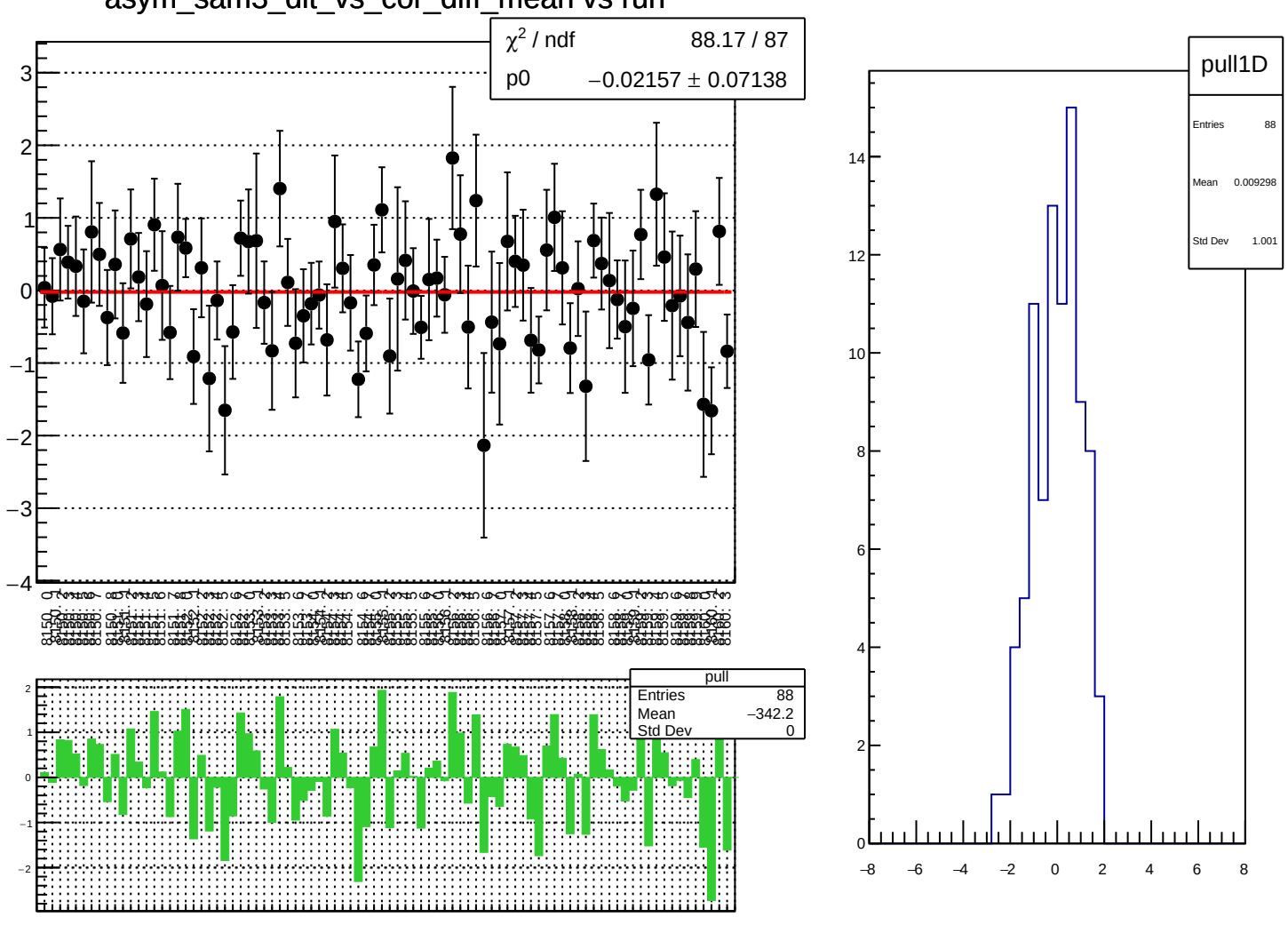

pull1D
Entries 88
Mean 0.001085
Std Dev 1.068

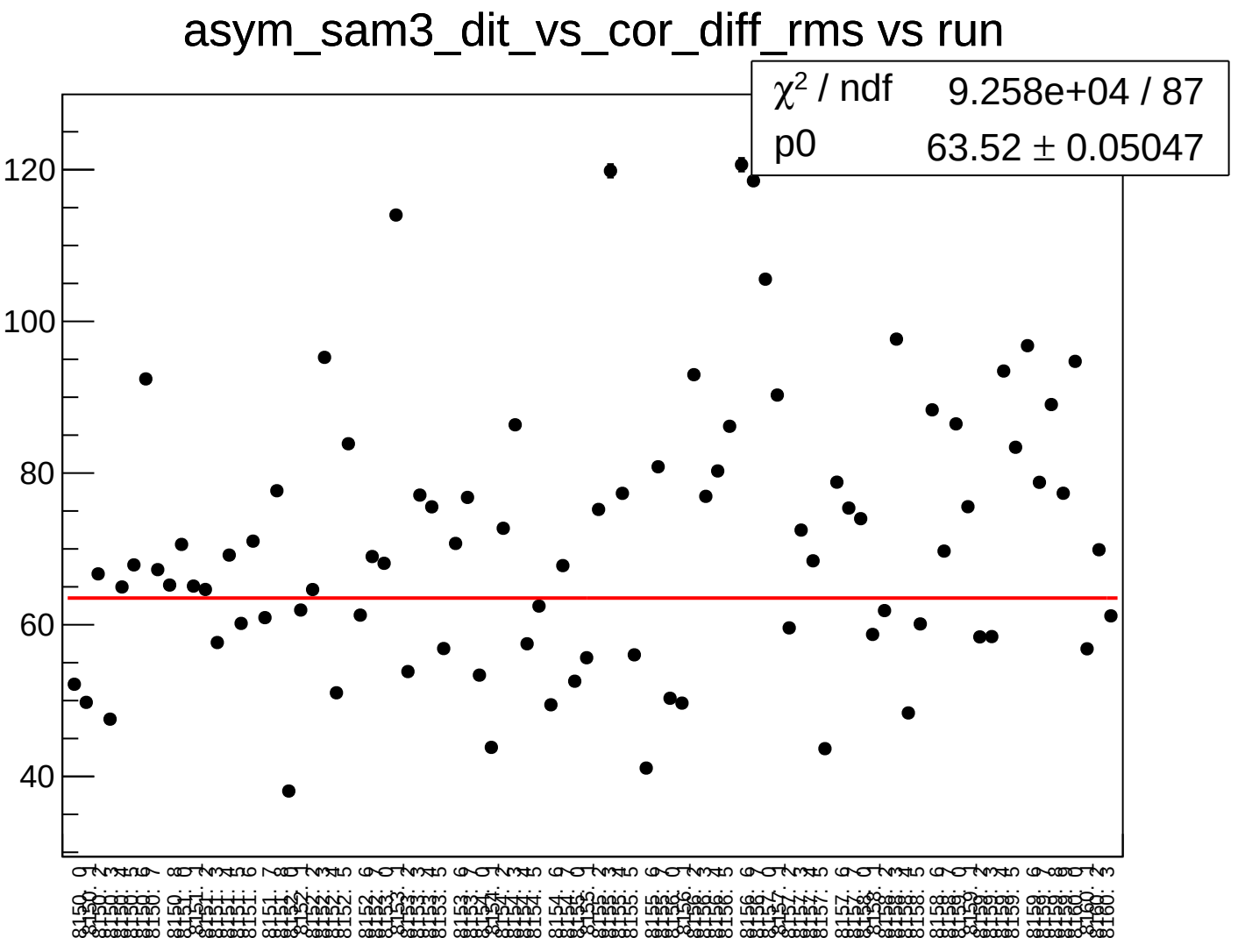

asym_sam3_rms vs run
χ^2 / ndf 2671 / 87
p0 2509 ± 1.939
2900
2800
2700
2600
2500
2400
2300
2200

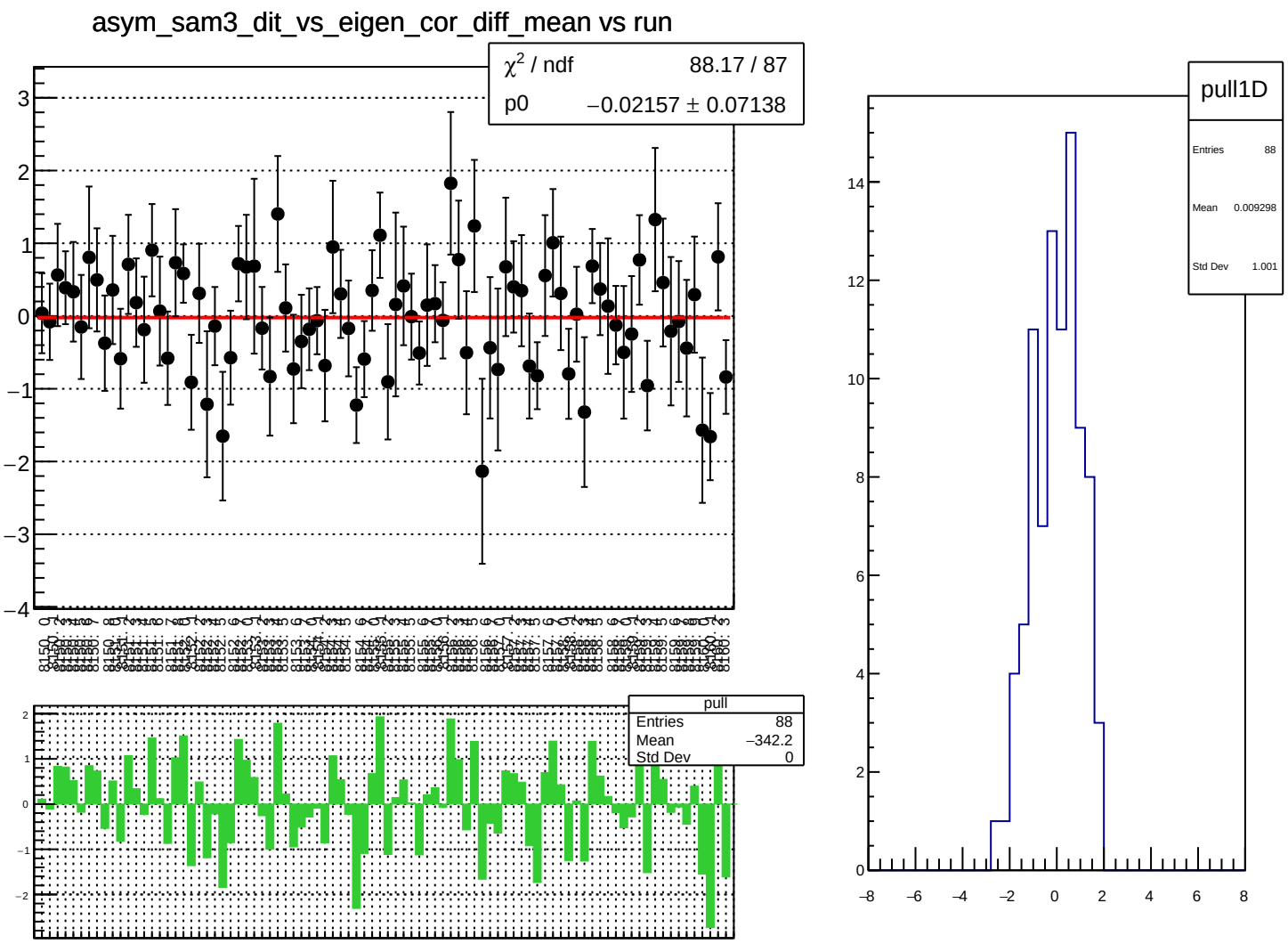

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 77.33 / 87
p0 4.907e−14 ± 1.404e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 88
Mean 166.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

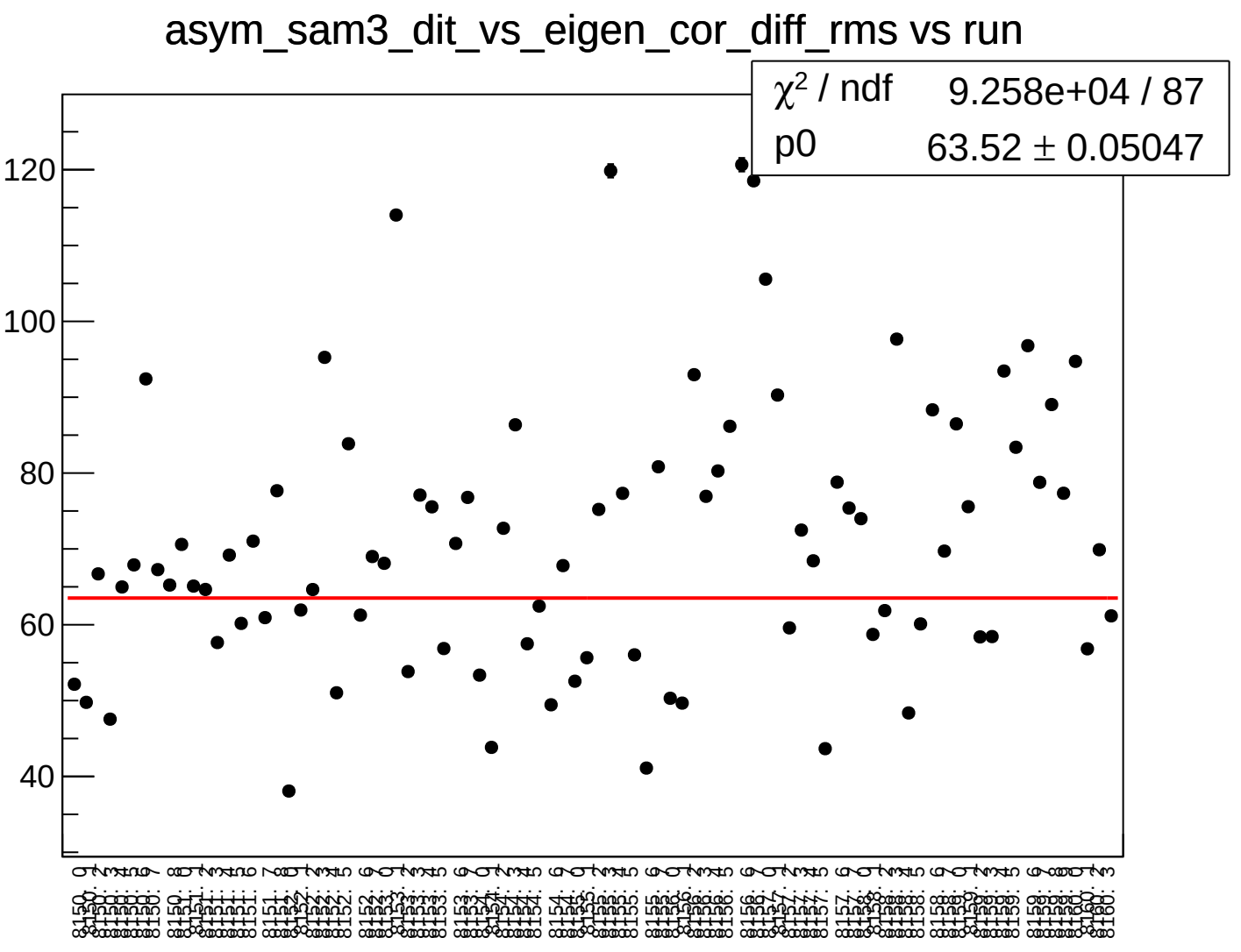

pull1D
Entries 88
Mean −0.01776
Std Dev 0.9373
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

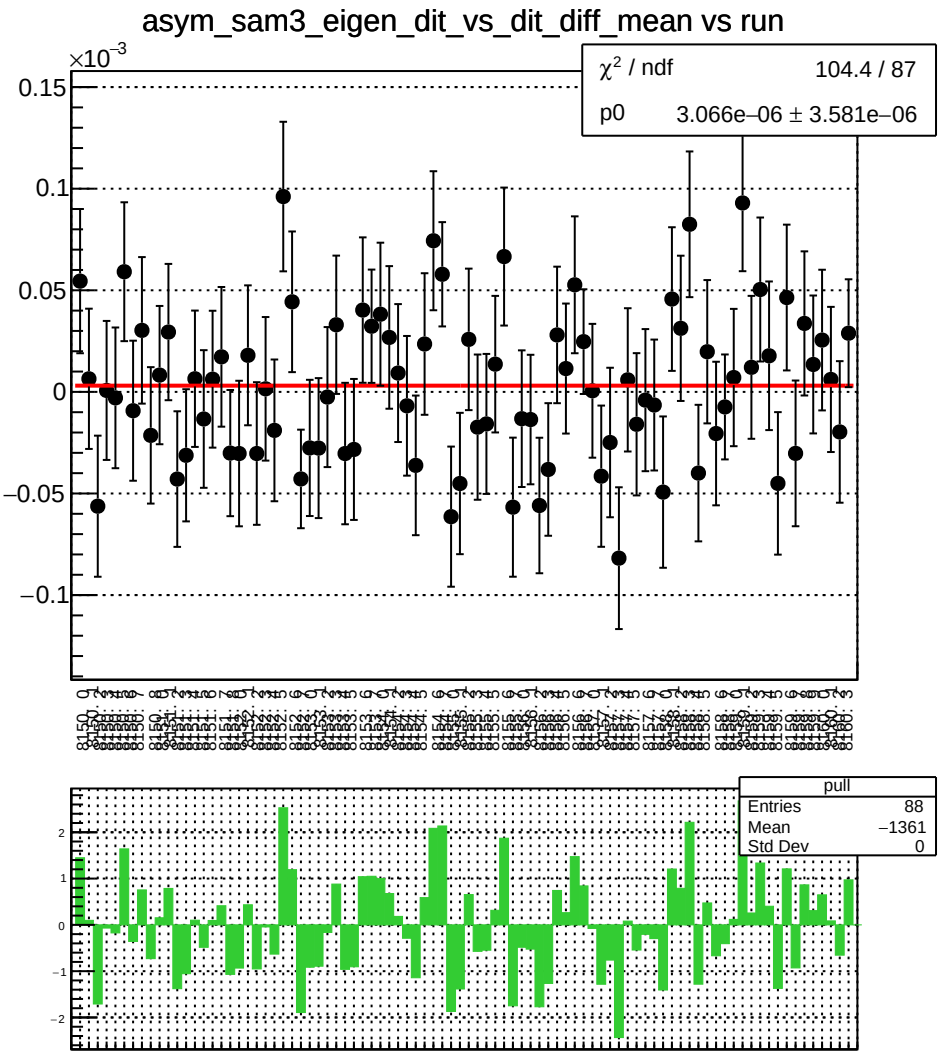

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.051e+06 / 87
p0 7.855e−11 ± 9.93e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

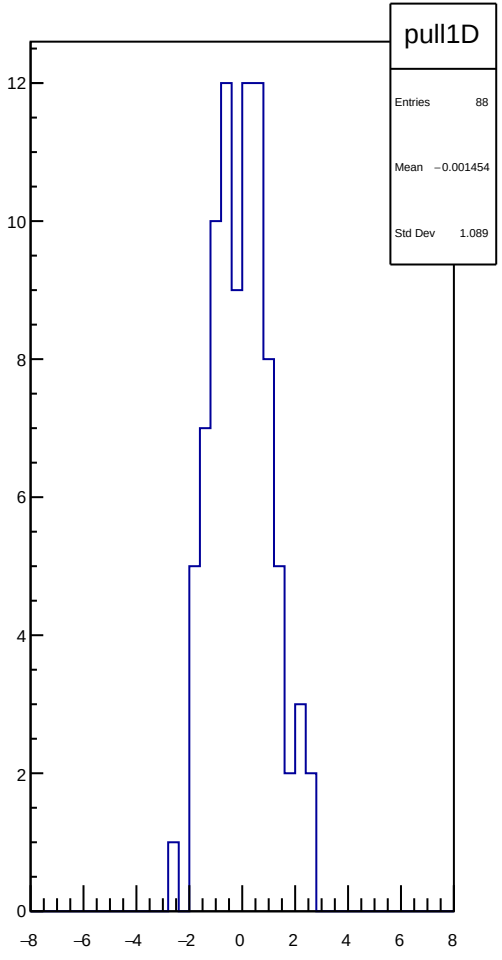

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 88.17 / 87
p0 −0.02157 ± 0.07138
pull
Entries 88
Mean −342.2
Std Dev 0
pull1D
Entries 88
Mean 0.009298
Std Dev 1.001

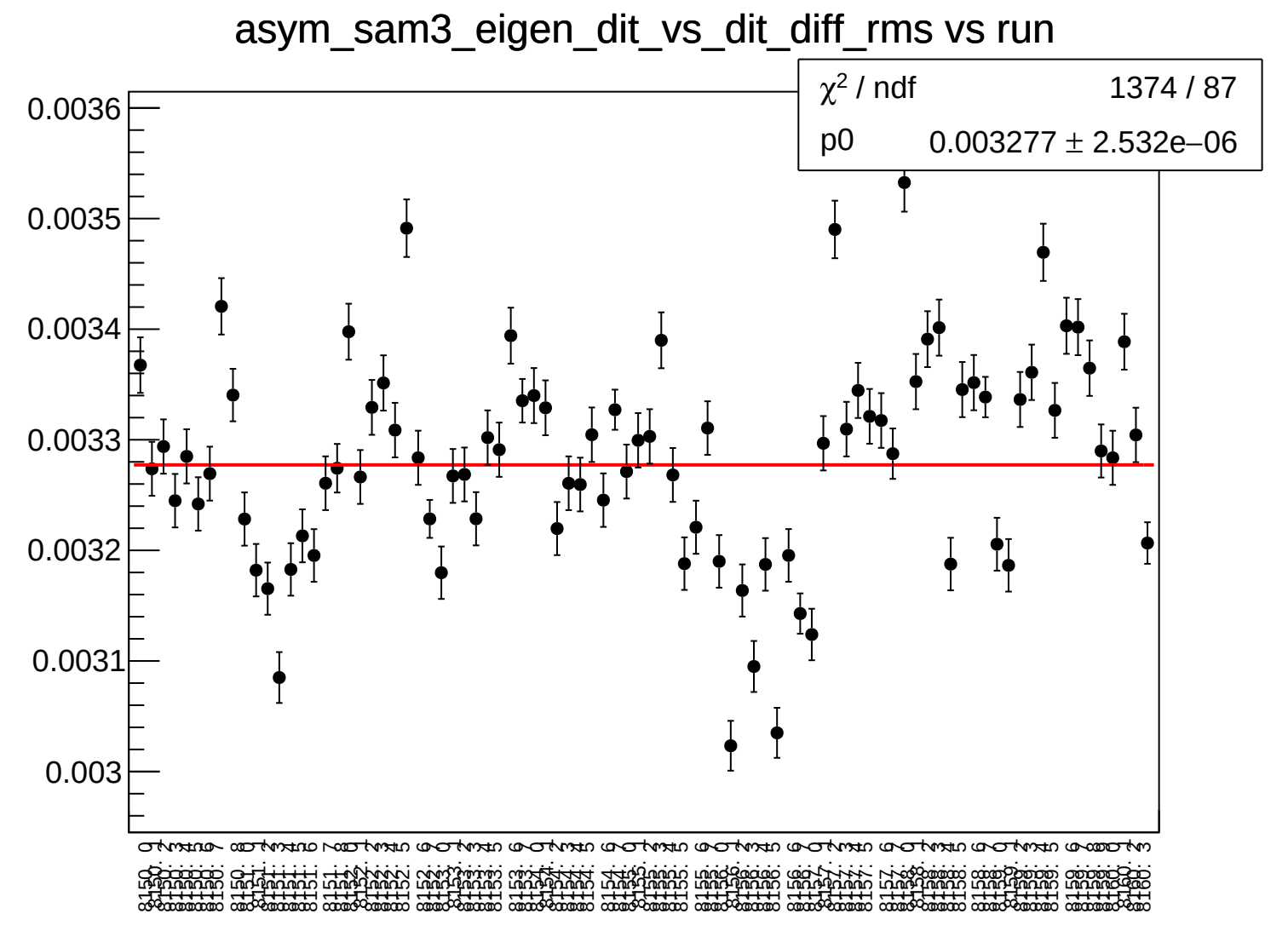

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 9.258e+04 / 87
p0 63.52 ± 0.05047
120
100
80
60
40

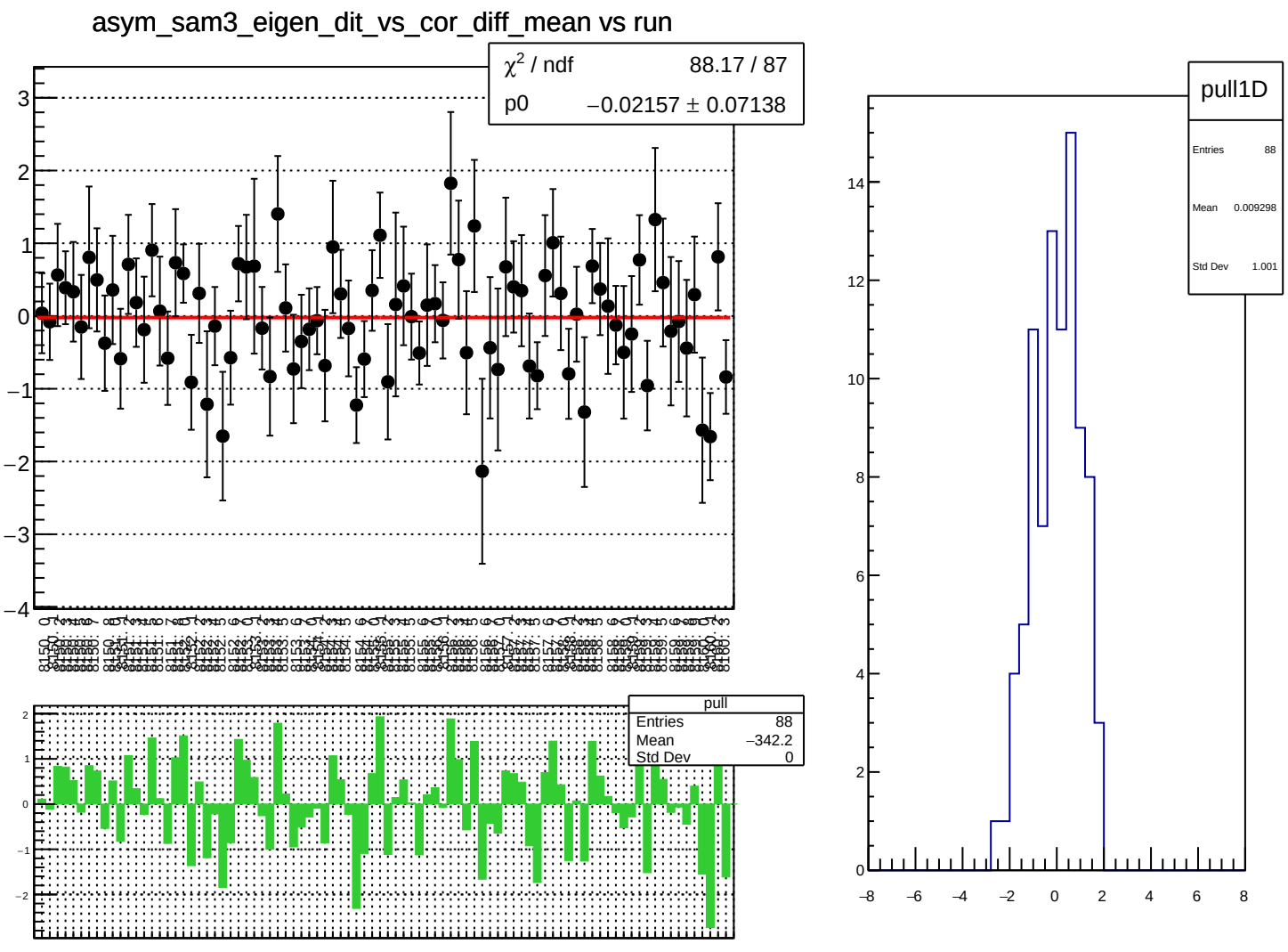

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.17 / 87
p0 −0.02157 ± 0.07138
pull
Entries 88
Mean −342.2
Std Dev 0
pull1D
Entries 88
Mean 0.009298
Std Dev 1.001

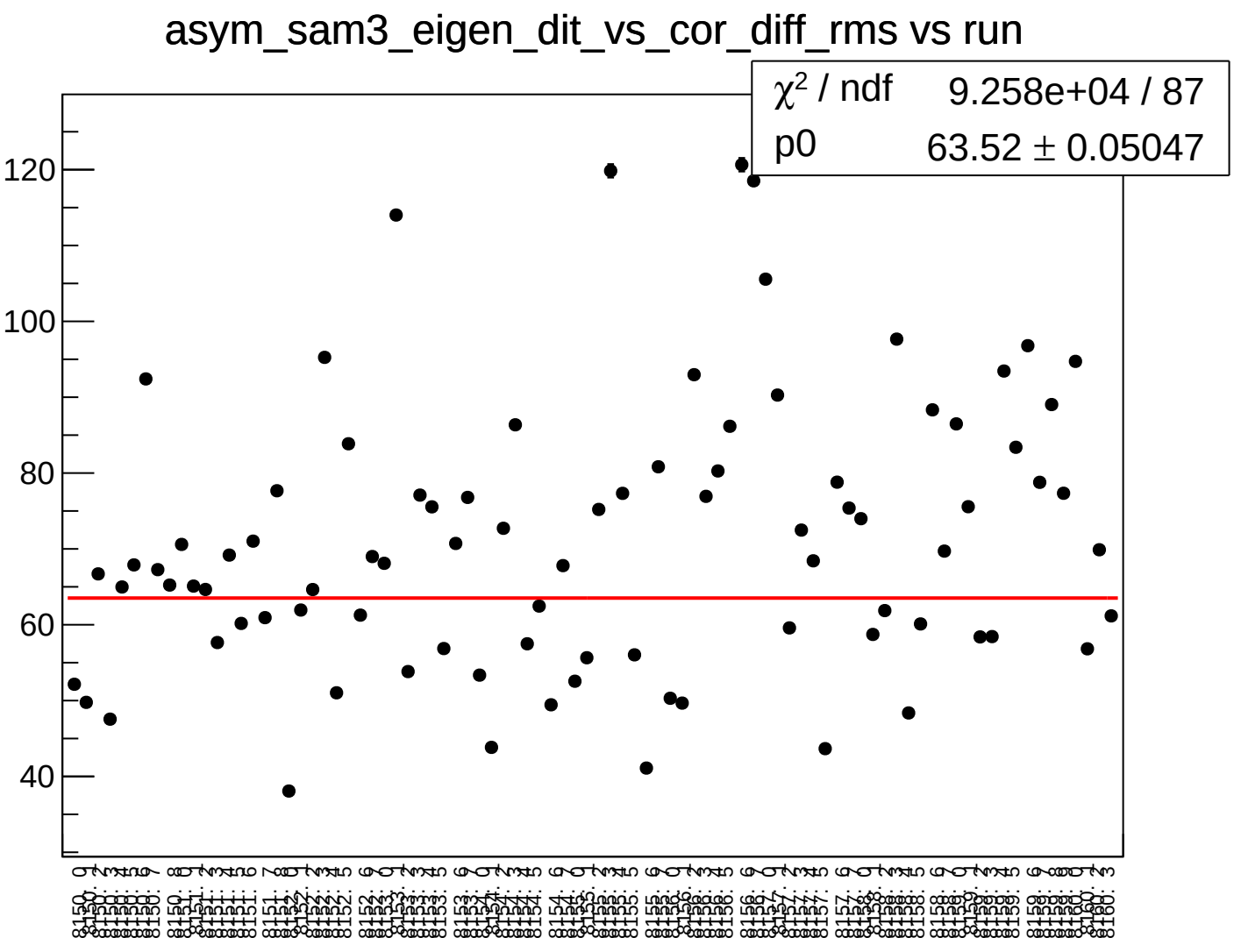

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.258e+04 / 87
p0 63.52 ± 0.05047
120
100
80
60
40

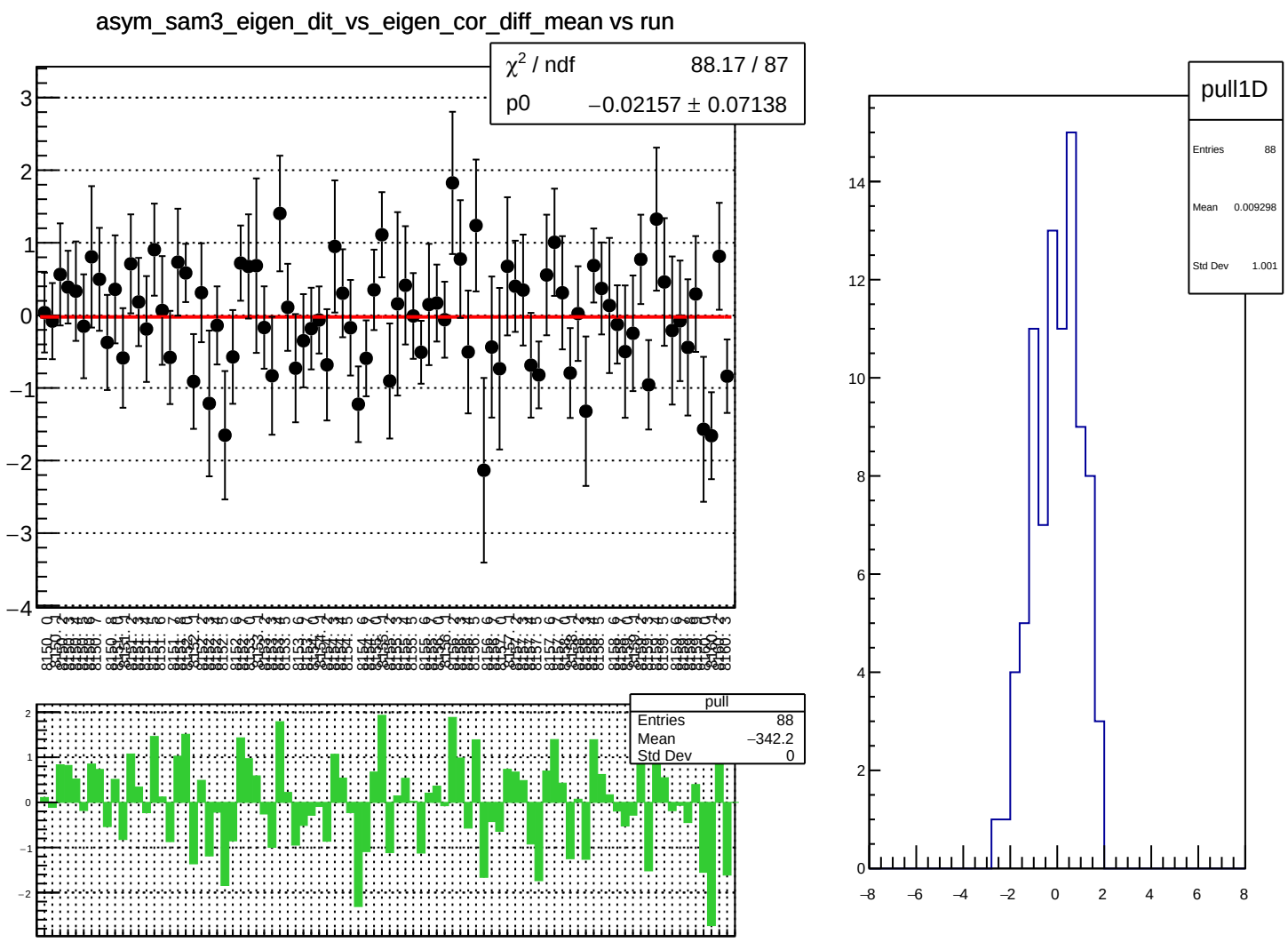

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.4 / 87
p0 3.066e−06 ± 3.581e−06
pull
Entries 88
Mean −1361
Std Dev 0

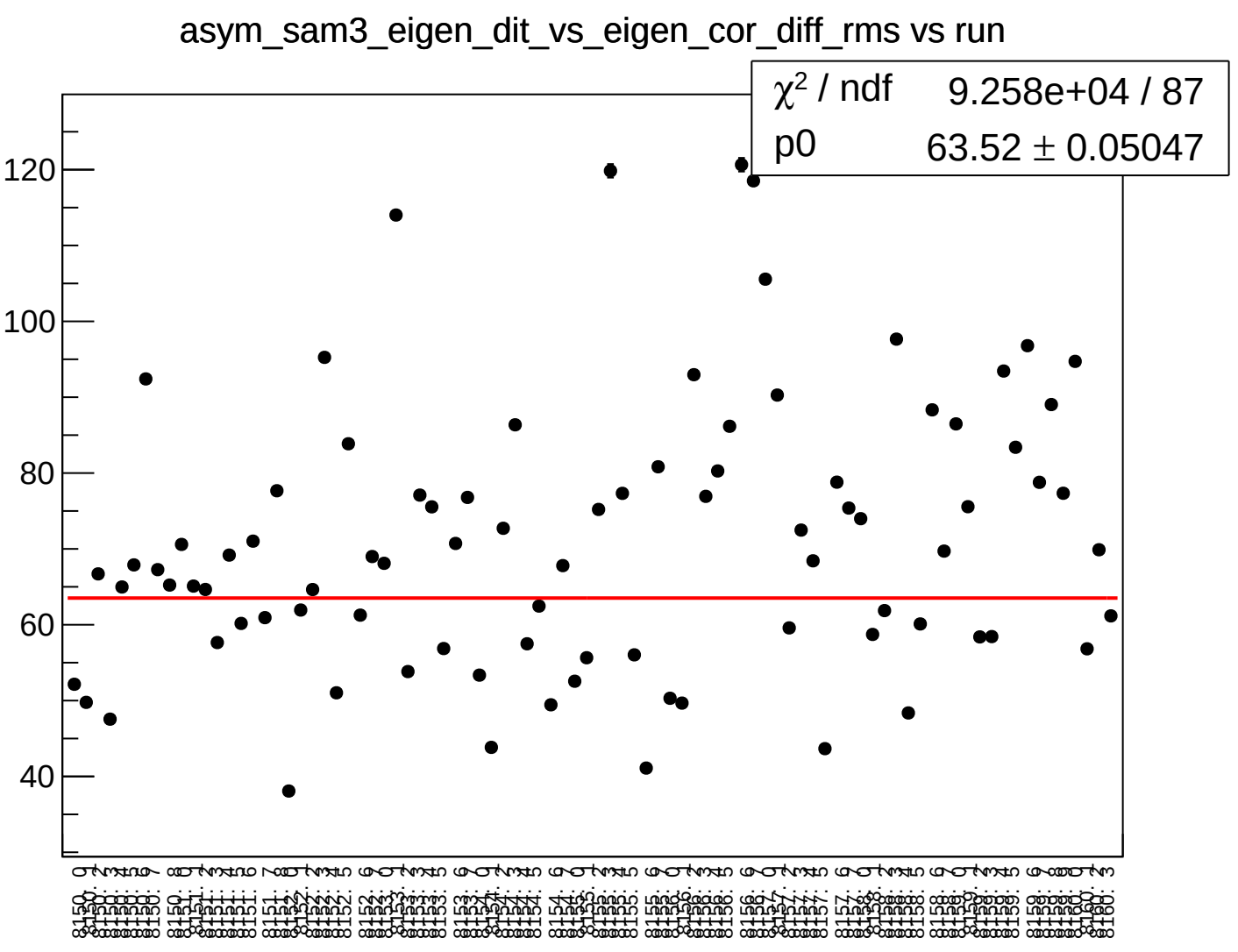

pull1D
Entries 88
Mean −0.001454
Std Dev 1.089

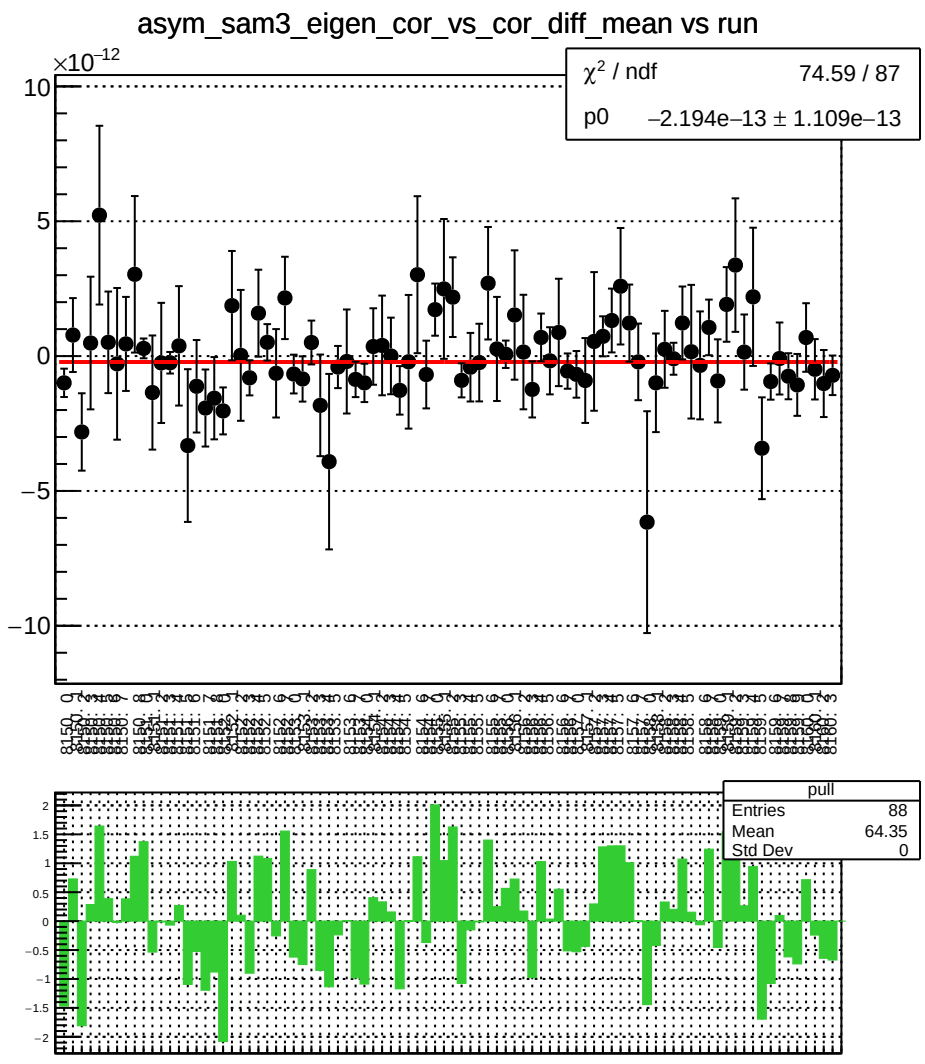

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1374 / 87
p0 0.003277 ± 2.532e−06
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003

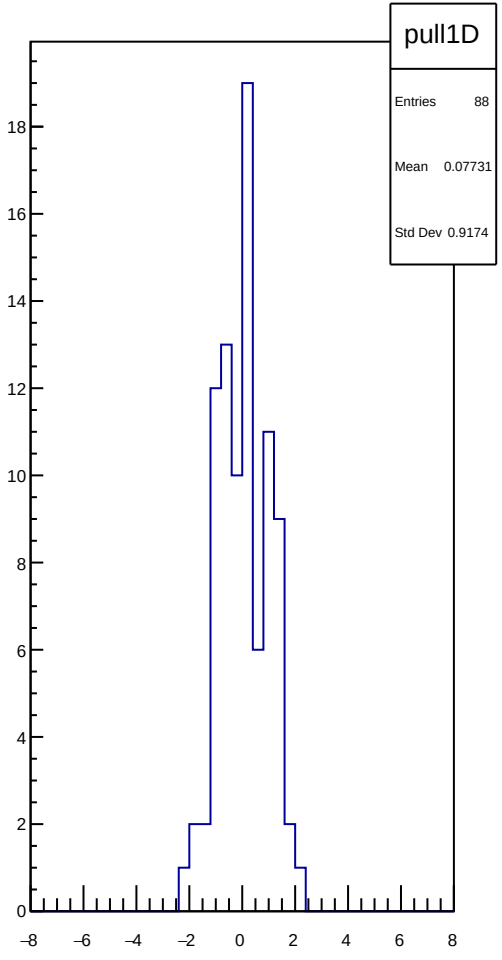

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.17 / 87
p0 −0.02157 ± 0.07138
pull
Entries 88
Mean −342.2
Std Dev 0
pull1D
Entries 88
Mean 0.009298
Std Dev 1.001

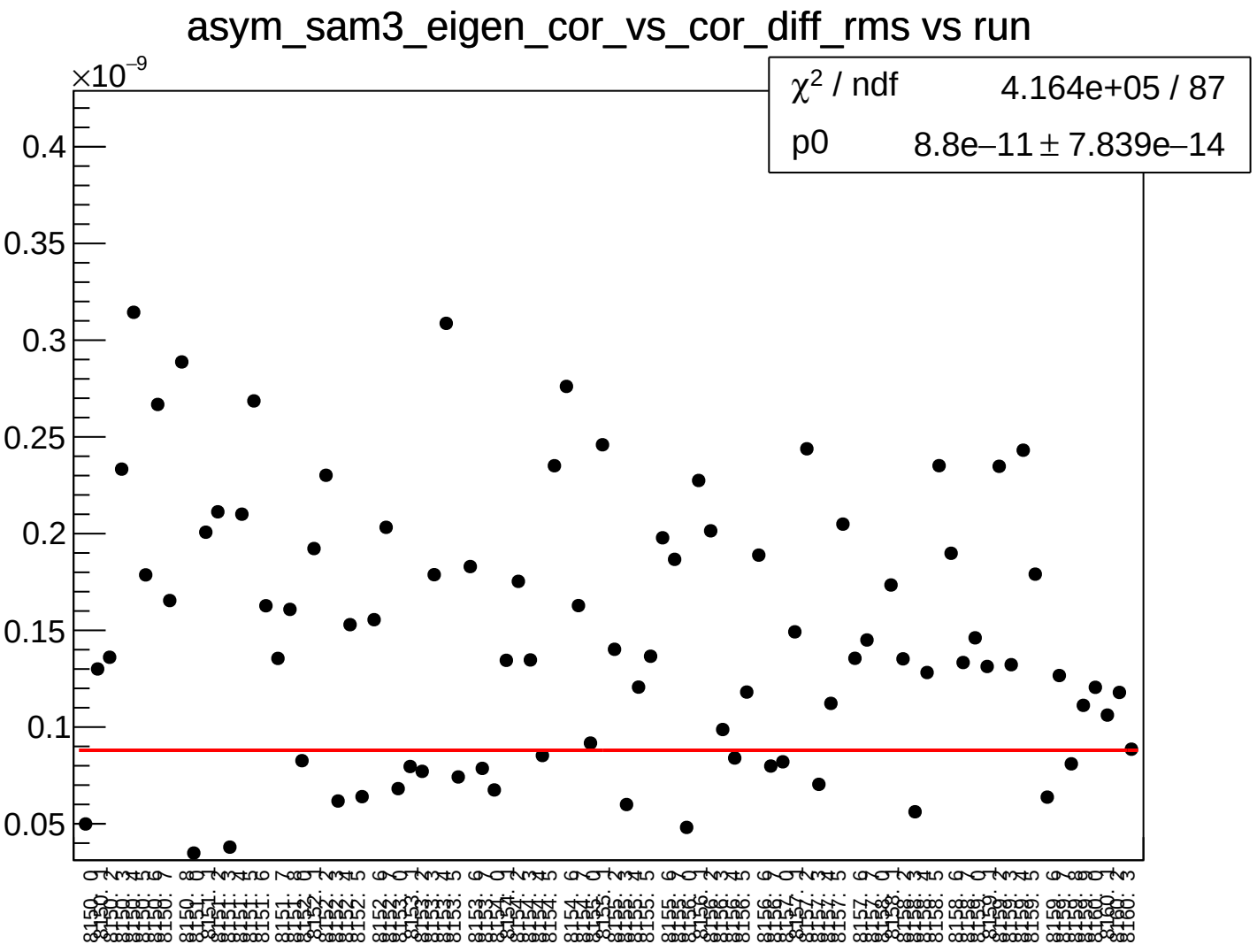

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.258e+04 / 87
p0 63.52 ± 0.05047
120
100
80
60
40

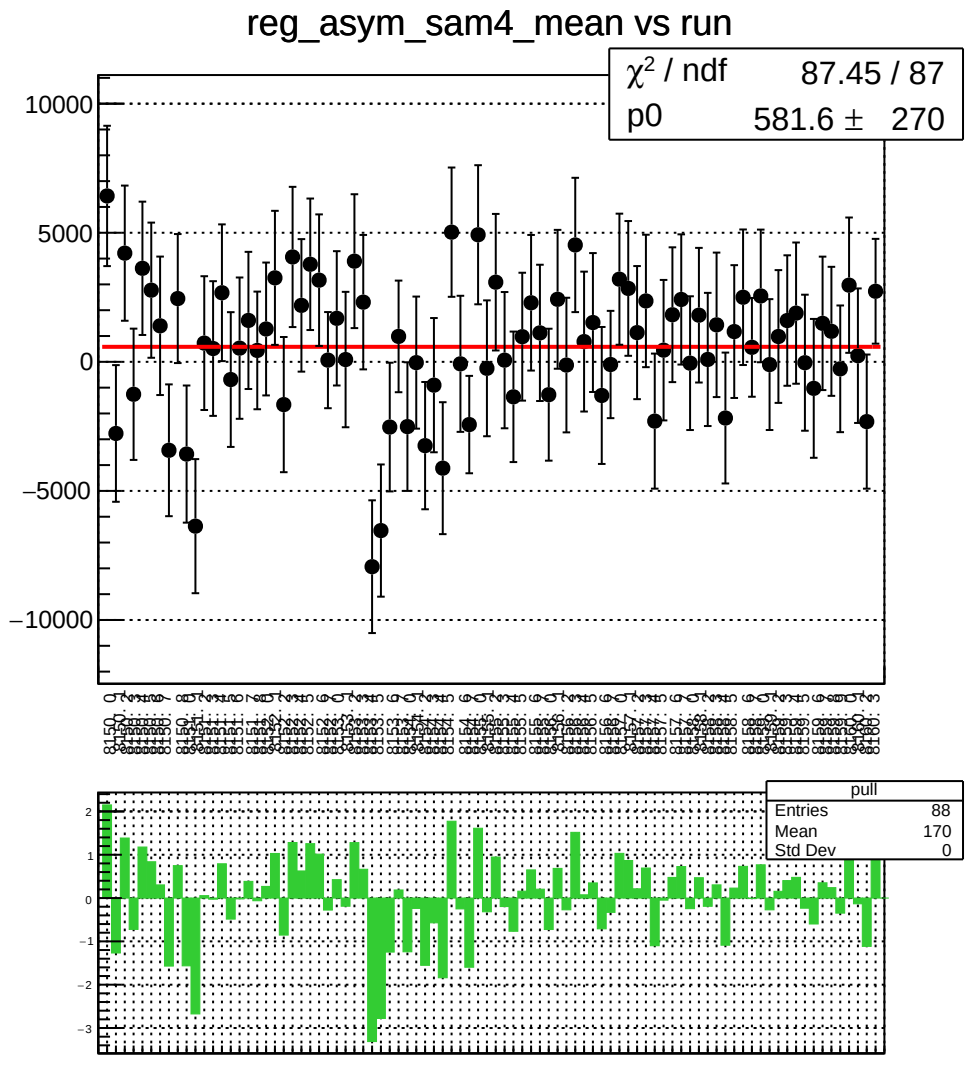

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.17 / 87
p0 −0.02157 ± 0.07138
pull
Entries 88
Mean −342.2
Std Dev 0
pull1D
Entries 88
Mean 0.009298
Std Dev 1.001

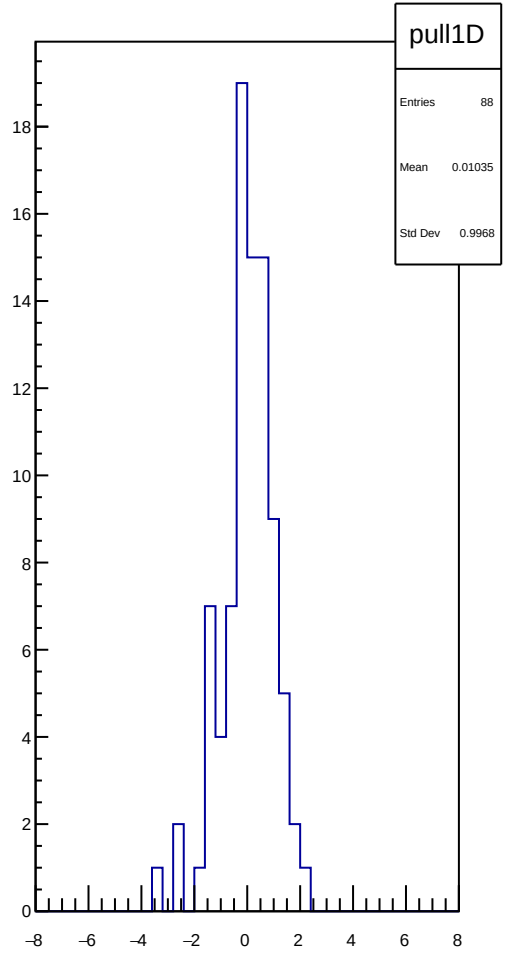

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.258e+04 / 87
p0 63.52 ± 0.05047
120
100
80
60
40

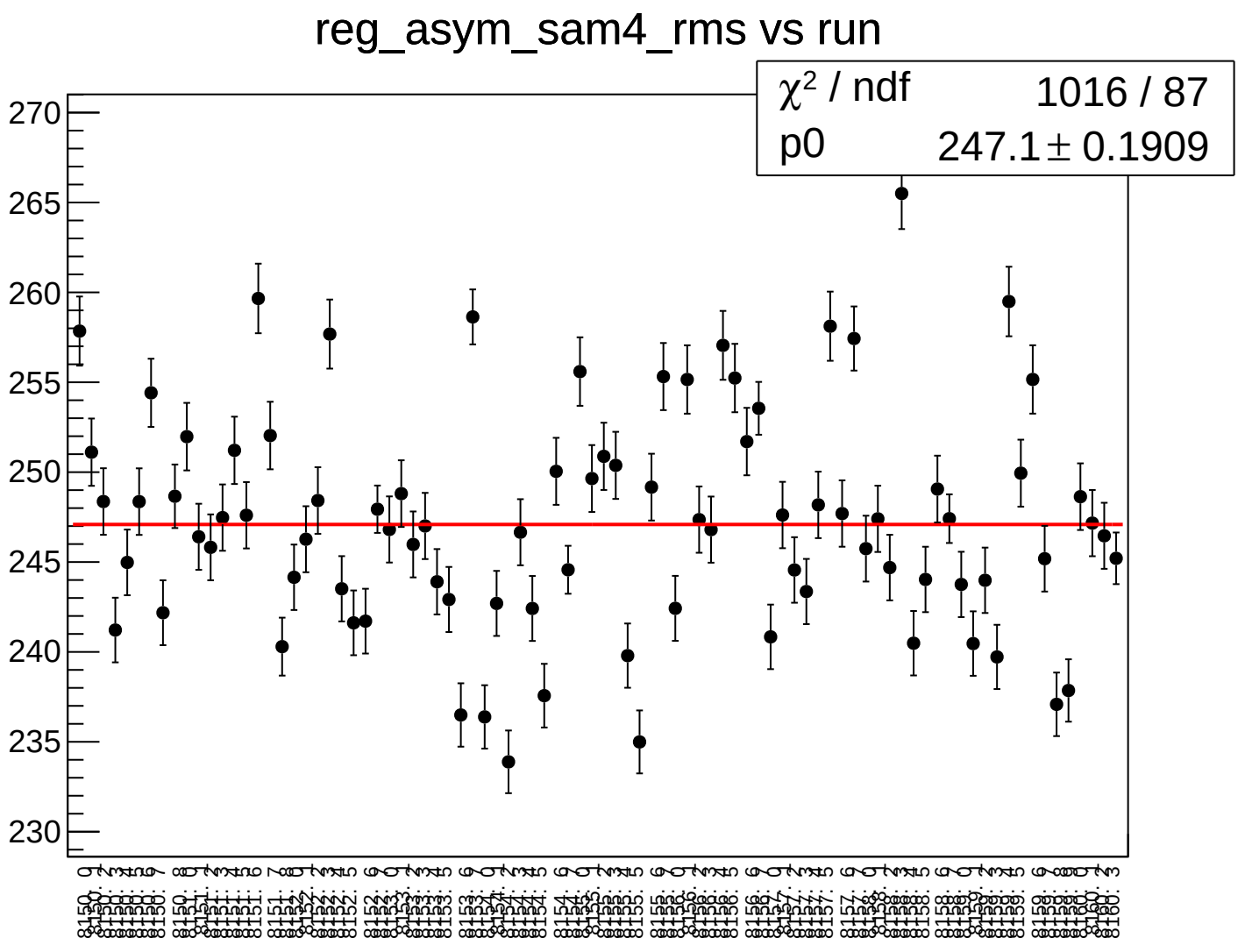

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.59 / 87
p0 −2.194e−13 ± 1.109e−13
pull
Entries 88
Mean 64.35
Std Dev 0

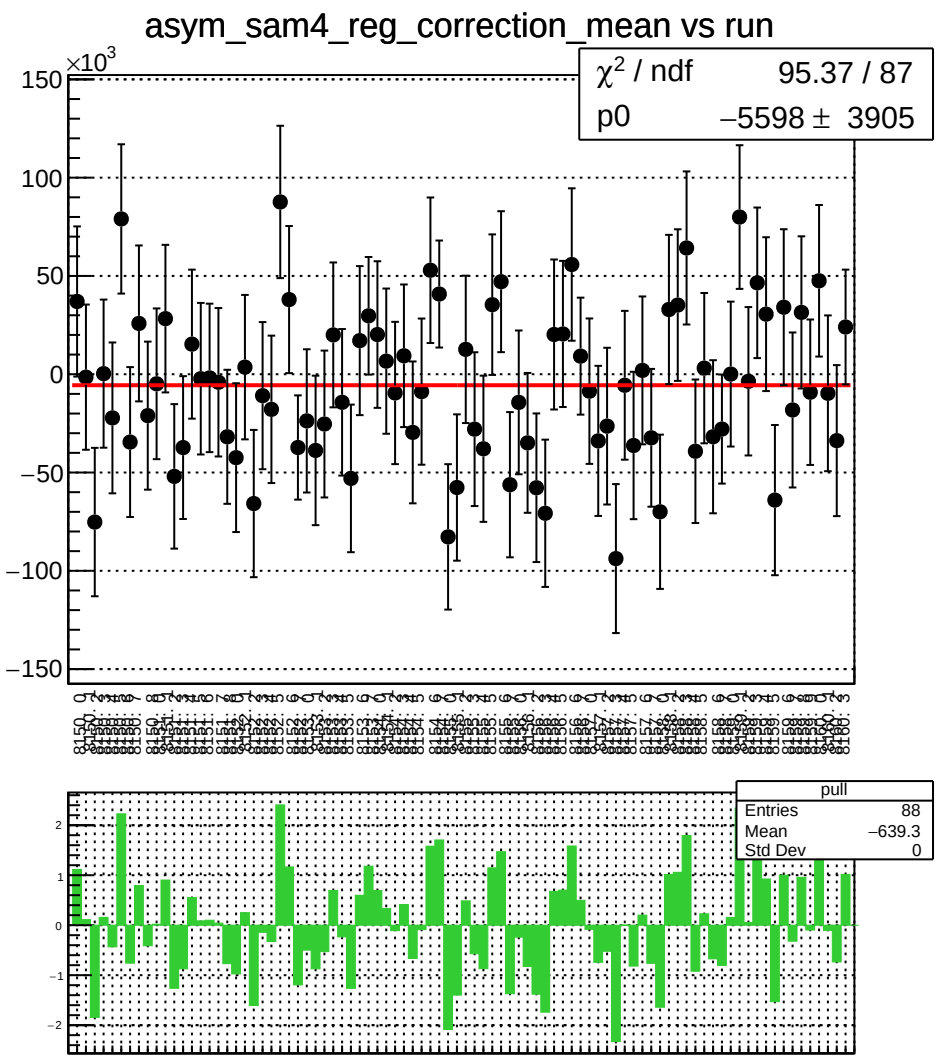

pull1D
Entries 88
Mean 0.07731
Std Dev 0.9174

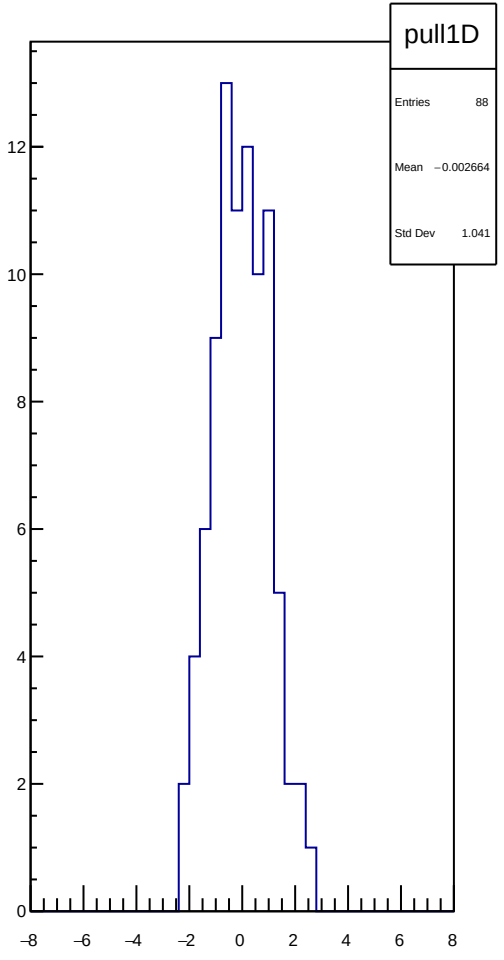

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.164e+05 / 87
p0 8.8e−11 ± 7.839e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

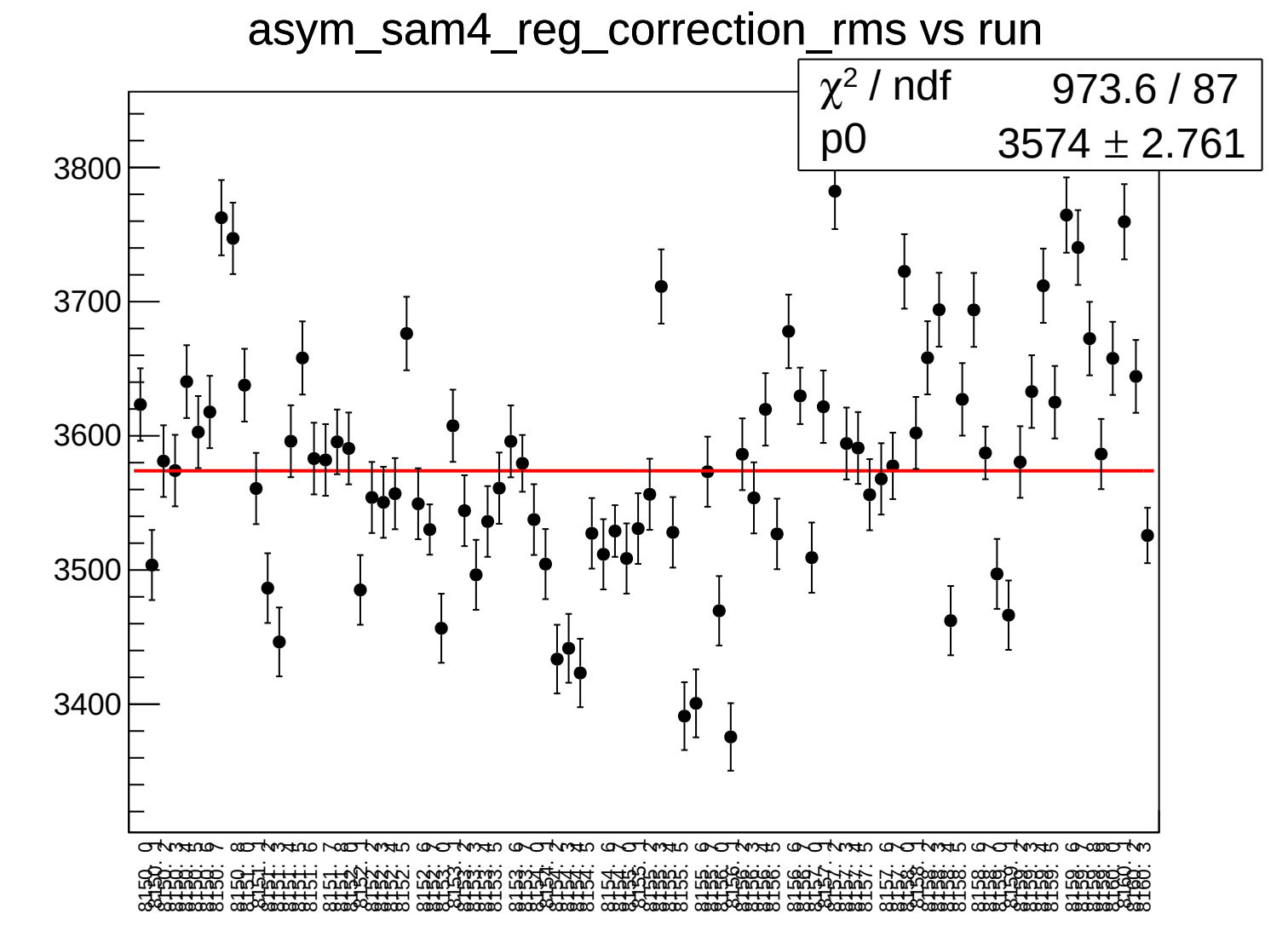

reg_asym_sam4_mean vs run
χ² / ndf 87.45 / 87
p0 581.6 ± 270
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 170
Std Dev 0
2
1
0
−1
−2
−3

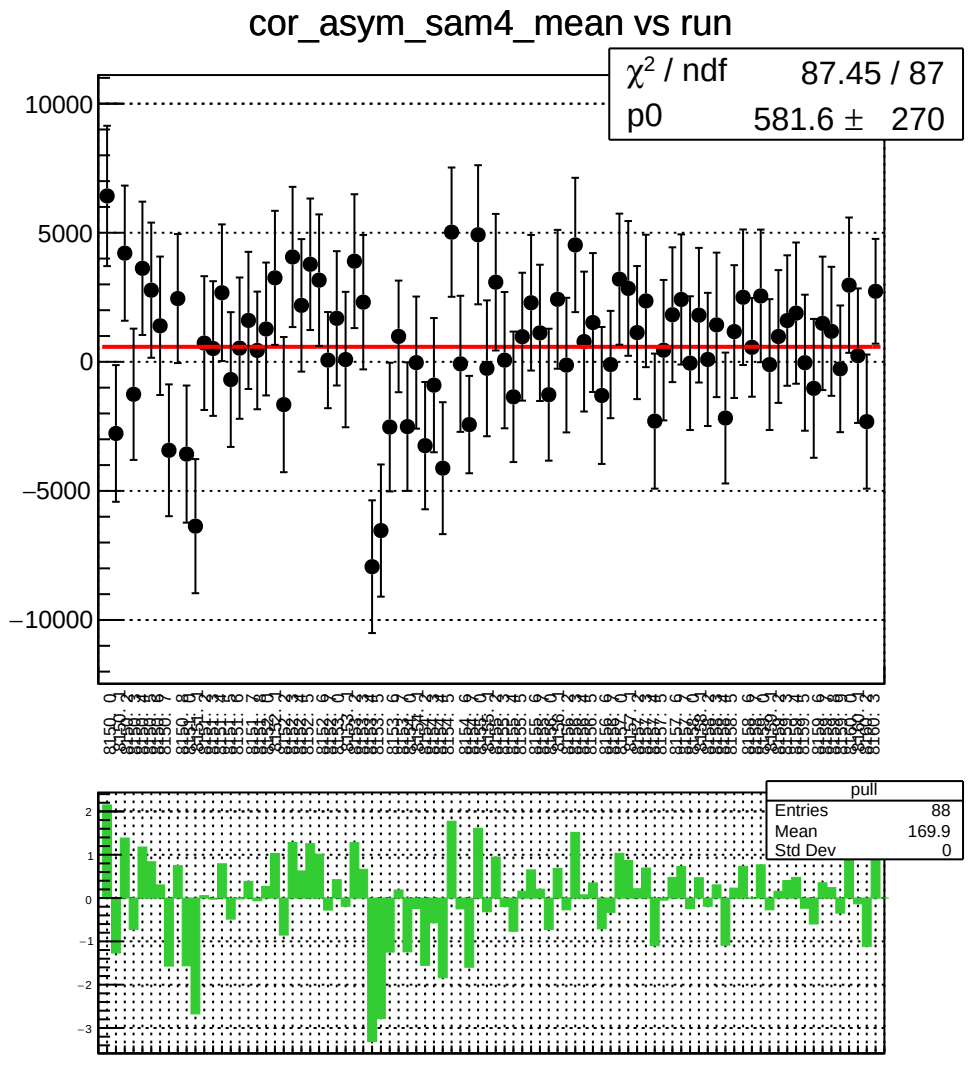

pull1D
Entries 88
Mean 0.01035
Std Dev 0.9968
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

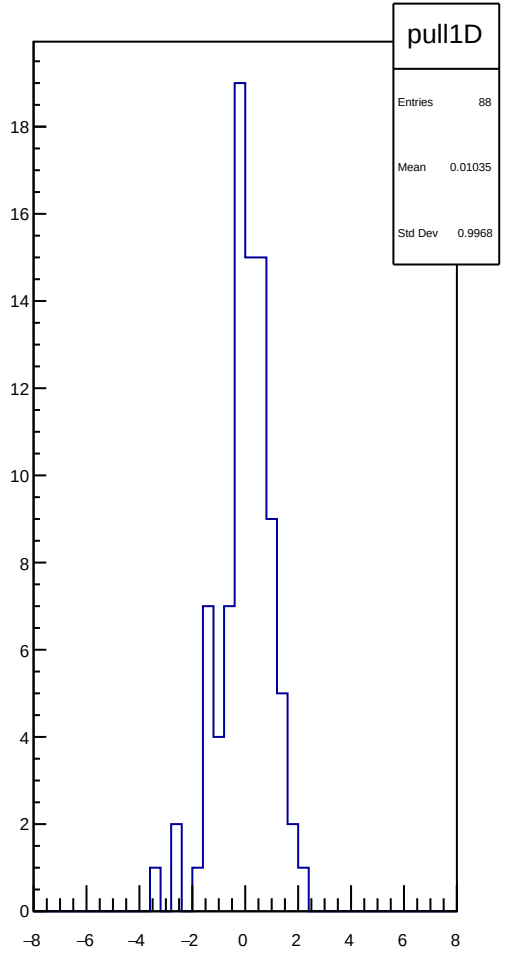

reg_asym_sam4_rms vs run
χ² / ndf 1016 / 87
p0 247.1 ± 0.1909
270
265
260
255
250
245
240
235
230

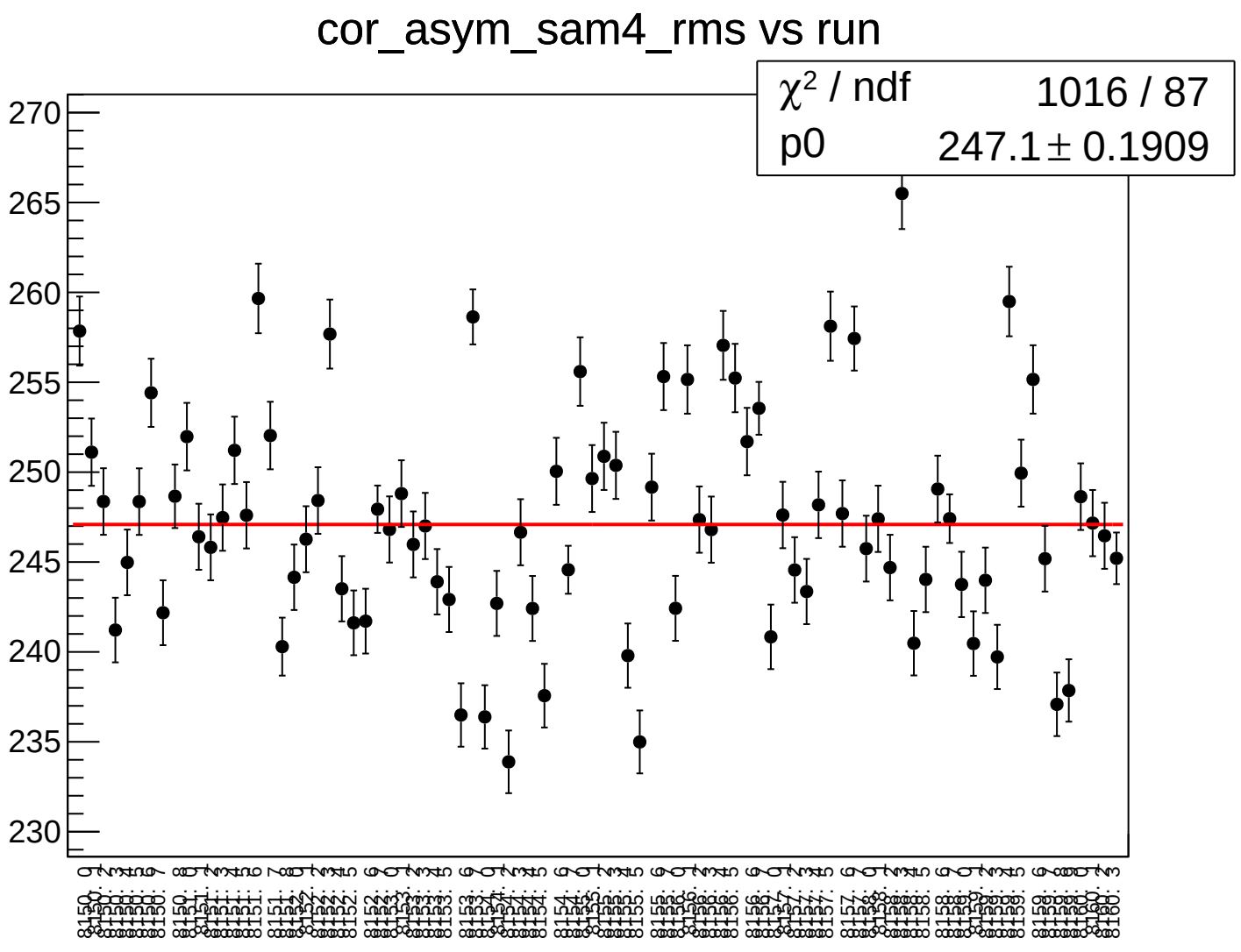

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 95.37 / 87
p0 −5598 ± 3905
pull
Entries 88
Mean −639.3
Std Dev 0

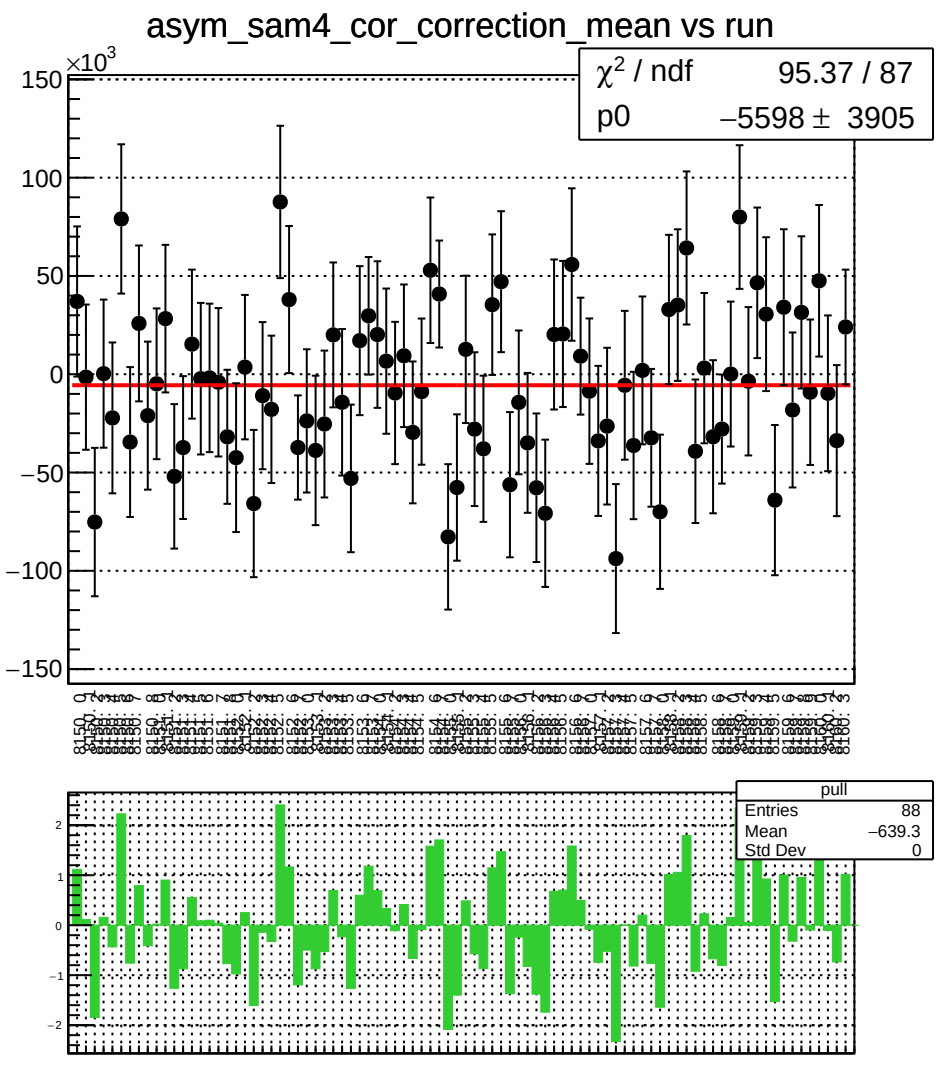

pull1D
Entries 88
Mean −0.002664
Std Dev 1.041

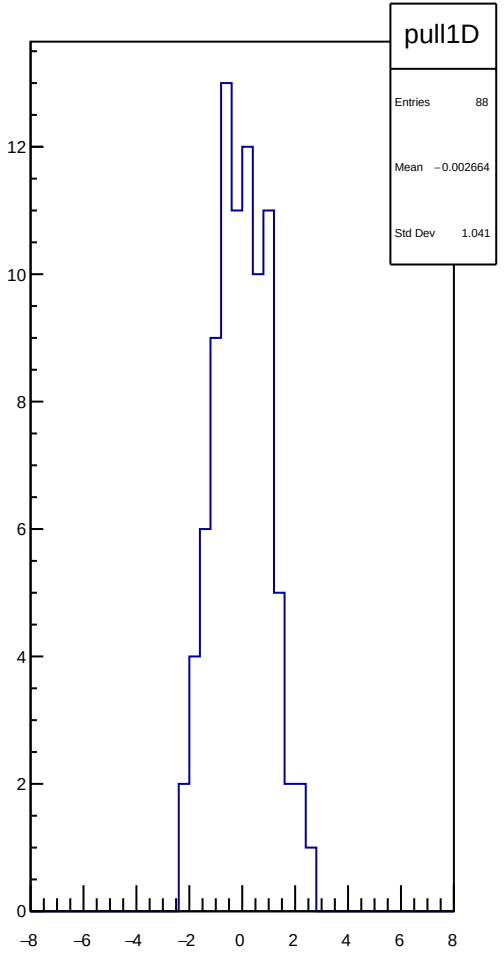

asym_sam4_reg_correction_rms vs run
χ² / ndf 973.6 / 87
p0 3574 ± 2.761
3800
3700
3600
3500
3400

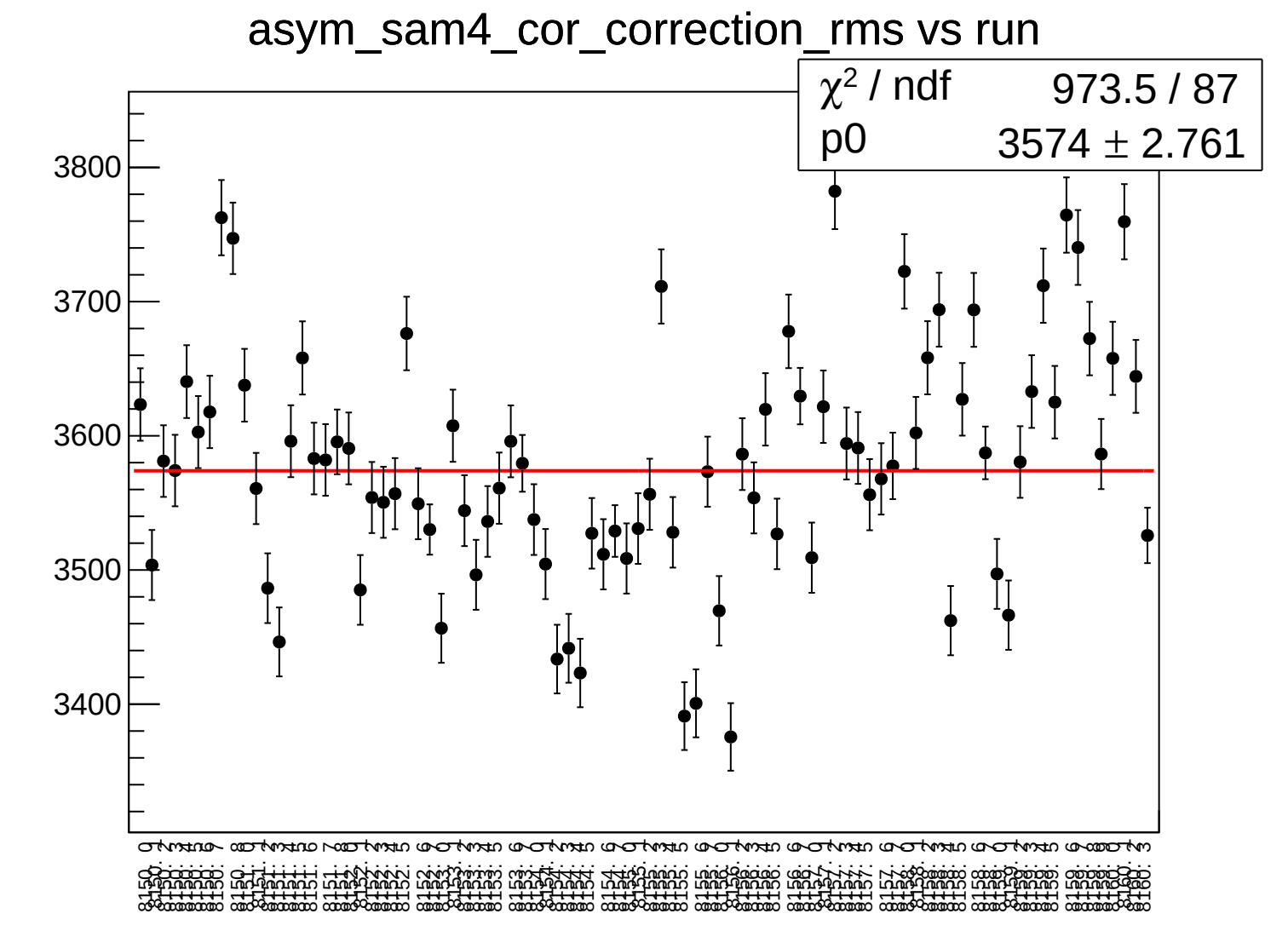

cor_asym_sam4_mean vs run
χ² / ndf 87.45 / 87
p0 581.6 ± 270
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 169.9
Std Dev 0
2
1
0
−1
−2
−3

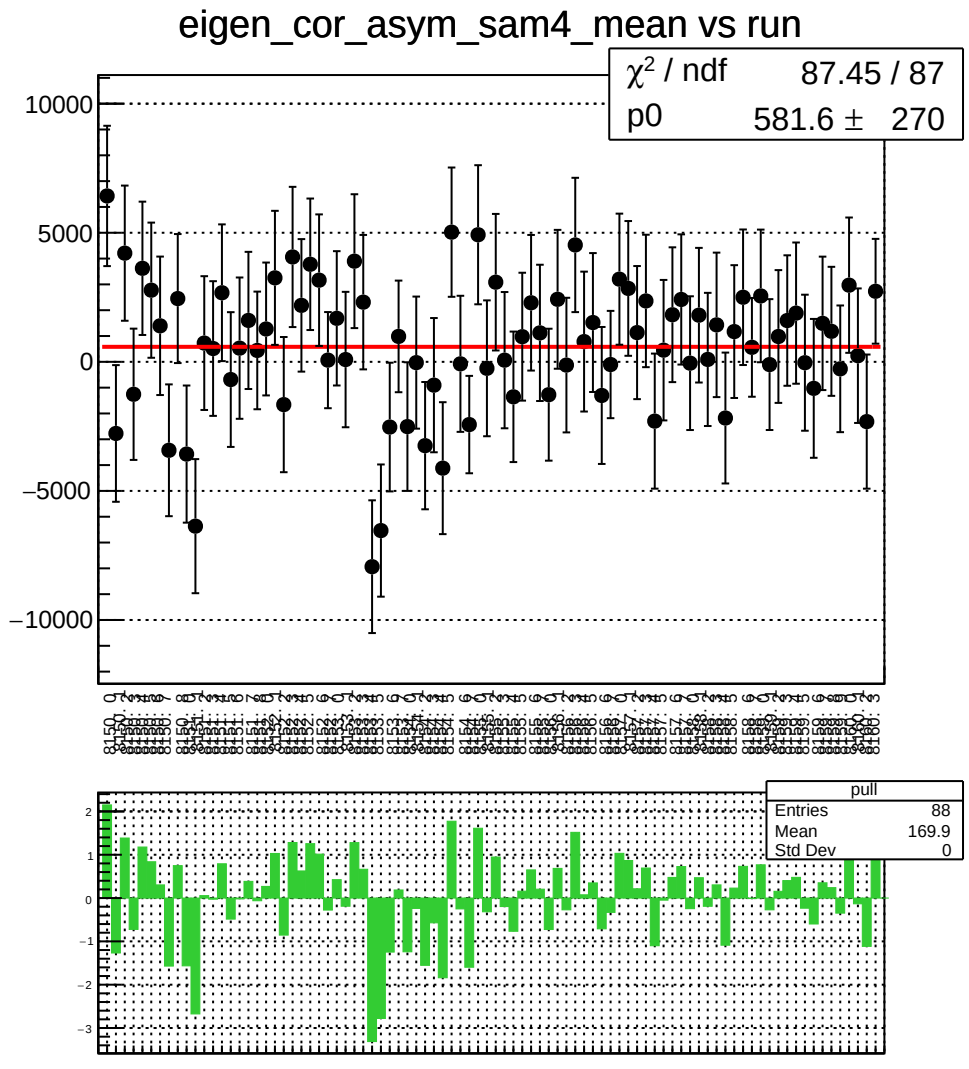

pull1D
Entries 88
Mean 0.01035
Std Dev 0.9968
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

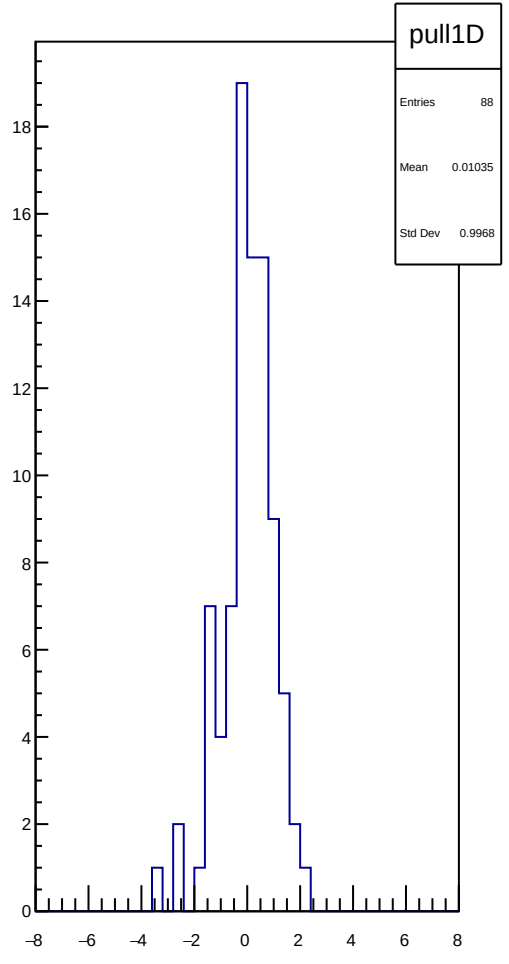

cor_asym_sam4_rms vs run
χ² / ndf 1016 / 87
p0 247.1 ± 0.1909
270
265
260
255
250
245
240
235
230

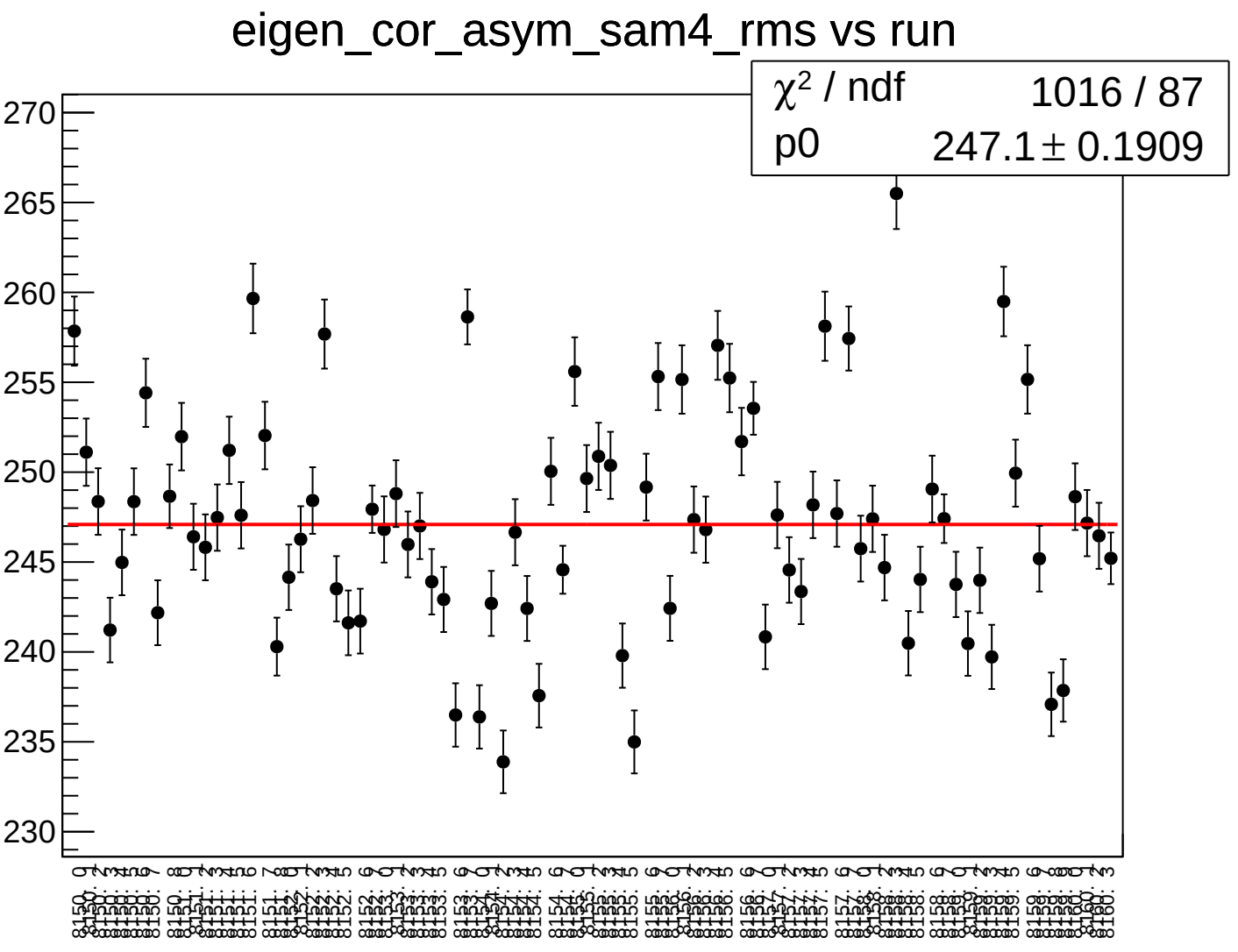

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 95.37 / 87
p0 −5598 ± 3905
pull
Entries 88
Mean −639.3
Std Dev 0

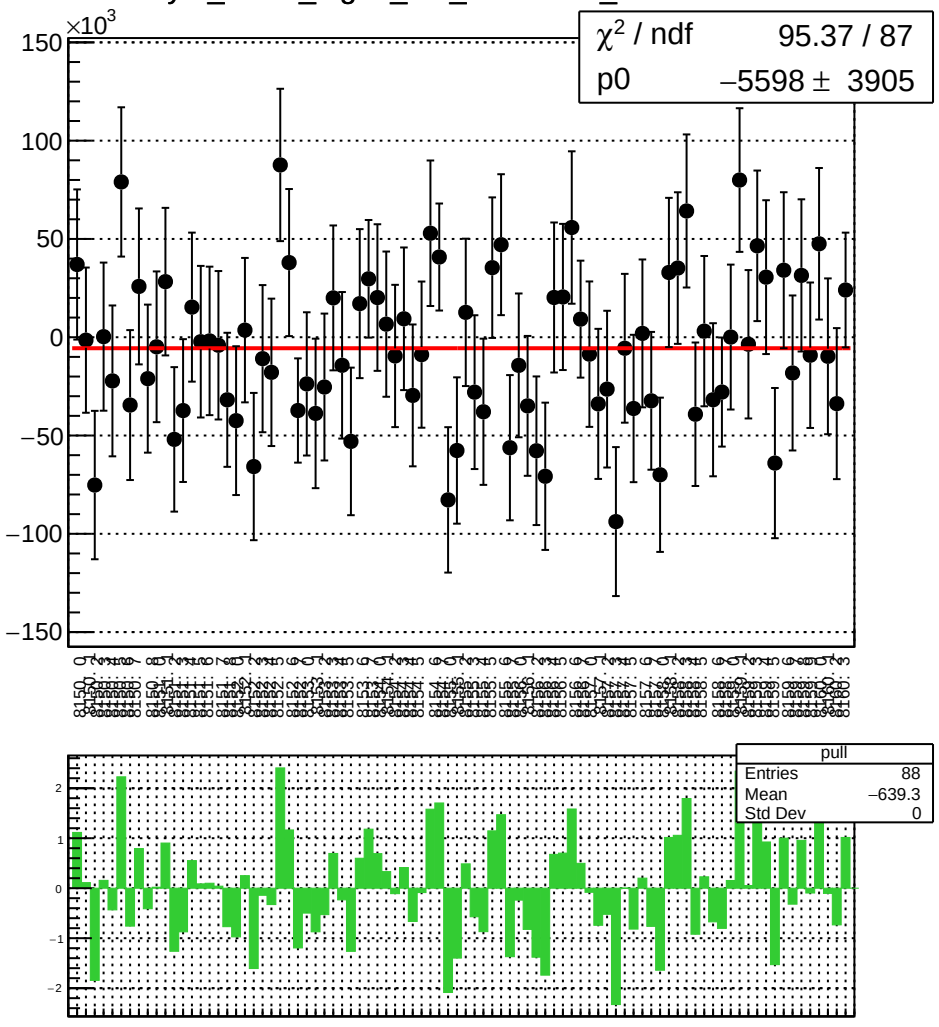

pull1D
Entries 88
Mean −0.002664
Std Dev 1.041

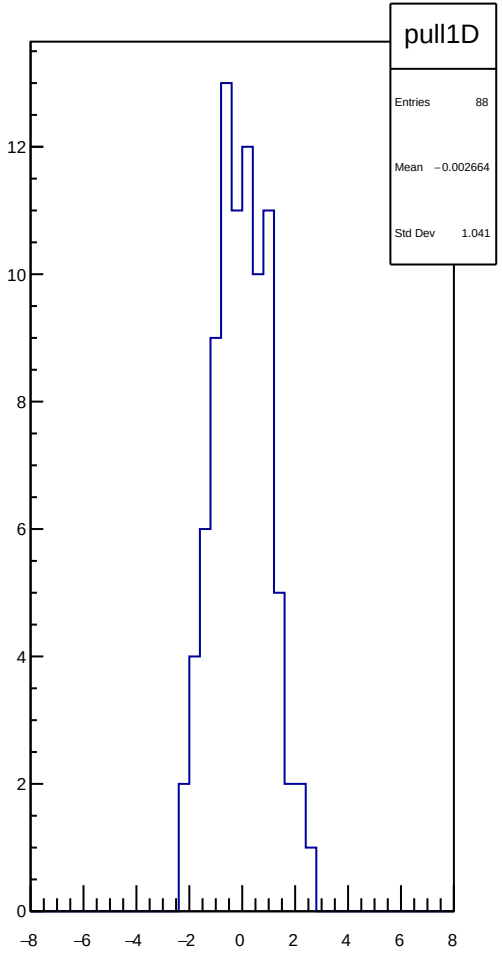

asym_sam4_cor_correction_rms vs run
χ² / ndf 973.5 / 87
p0 3574 ± 2.761
3800
3700
3600
3500
3400

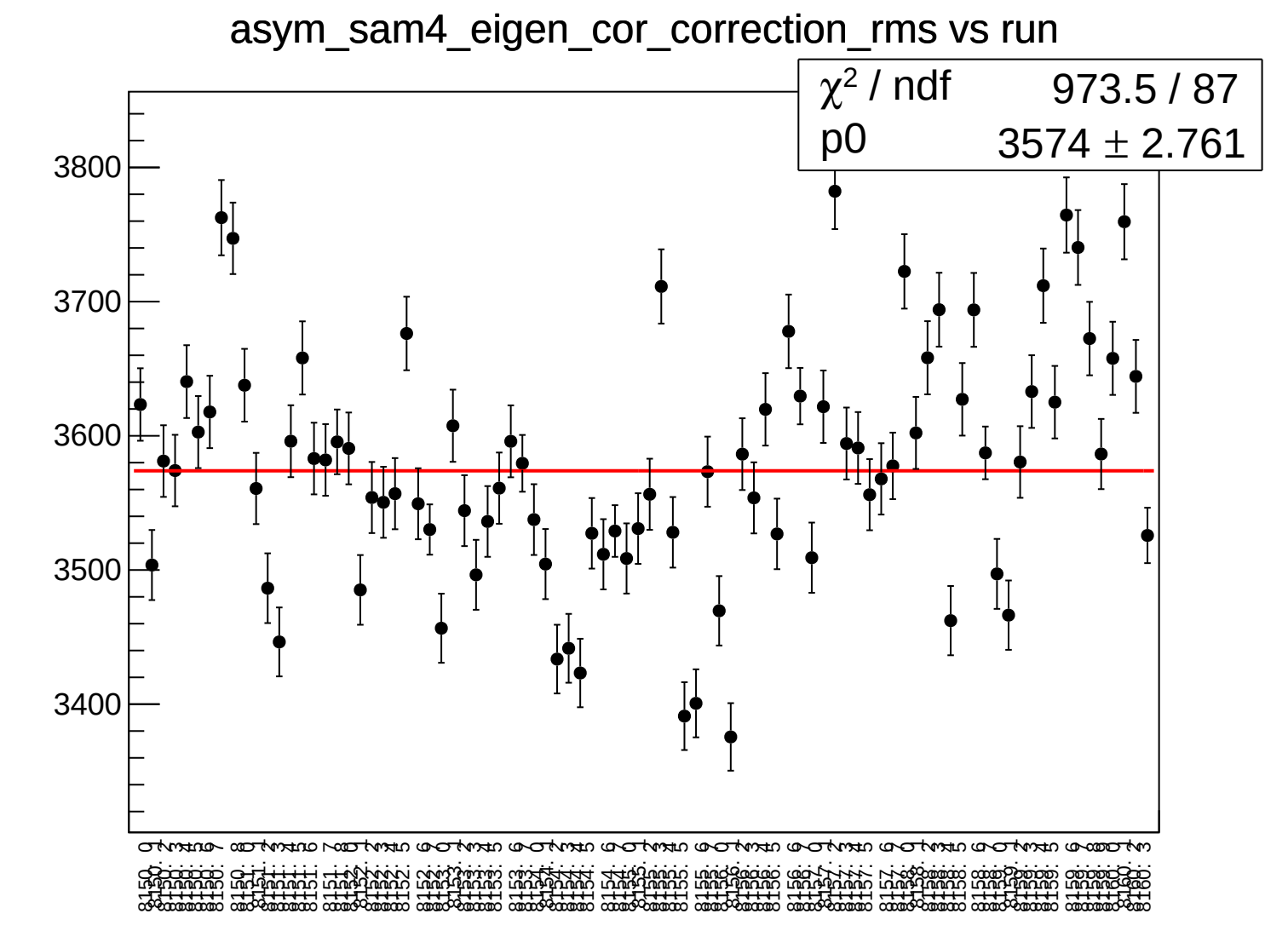

eigen_cor_asym_sam4_mean vs run
χ² / ndf 87.45 / 87
p0 581.6 ± 270
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 169.9
Std Dev 0
2
1
0
−1
−2
−3

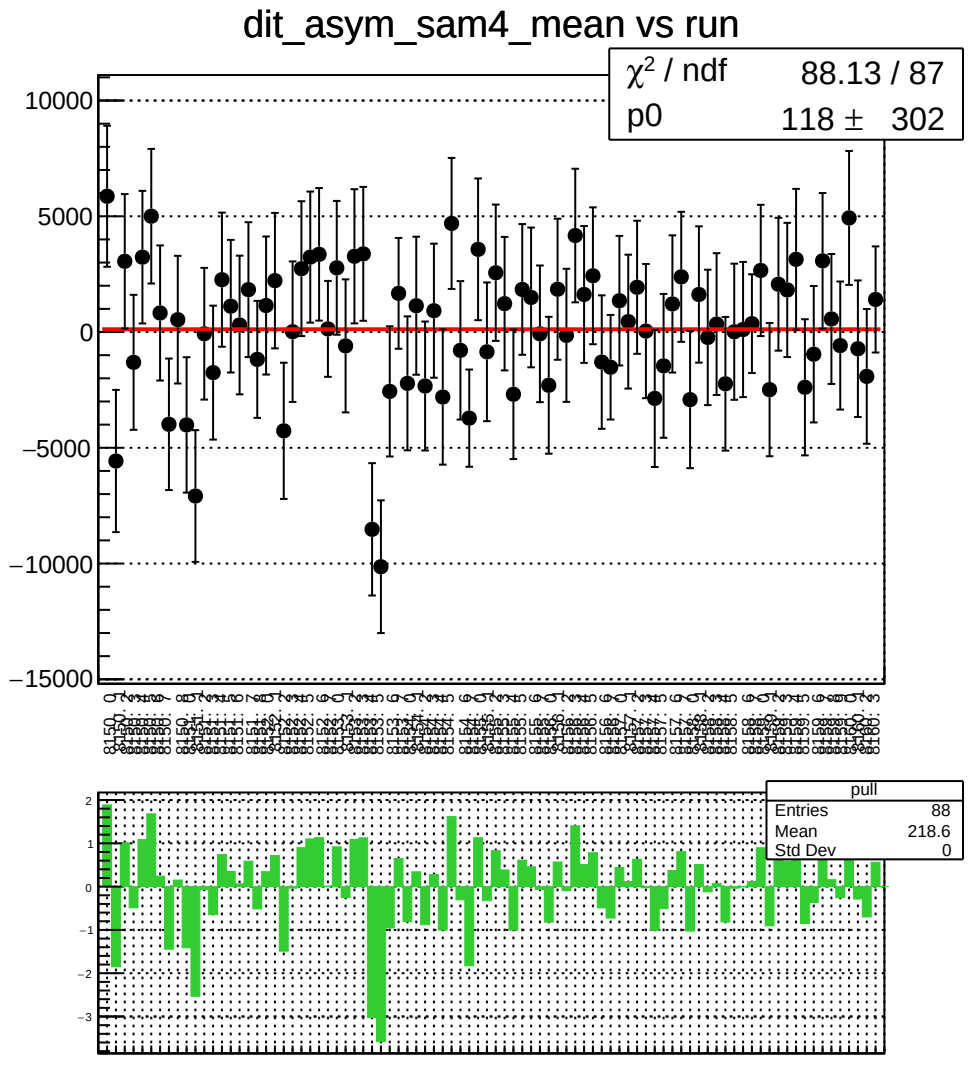

pull1D
Entries 88
Mean 0.01035
Std Dev 0.9968
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

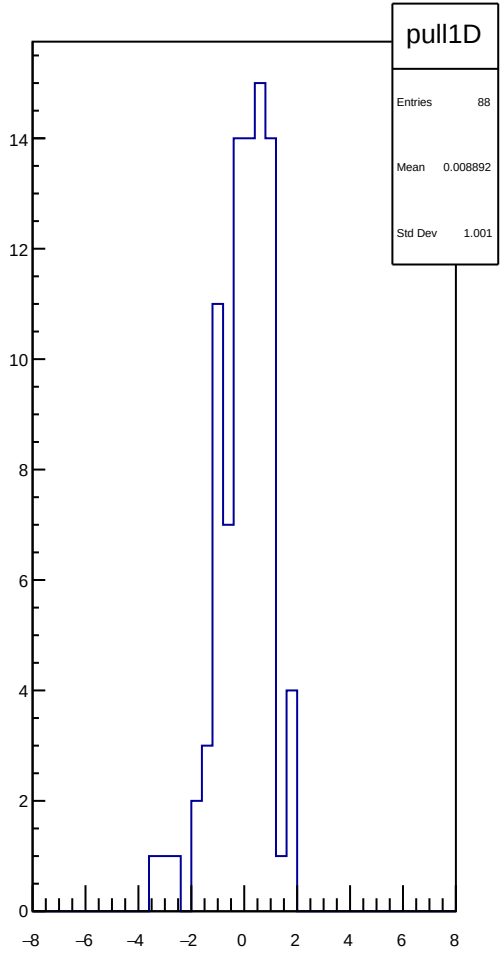

eigen_cor_asym_sam4_rms vs run
χ² / ndf 1016 / 87
p0 247.1 ± 0.1909
270
265
260
255
250
245
240
235
230

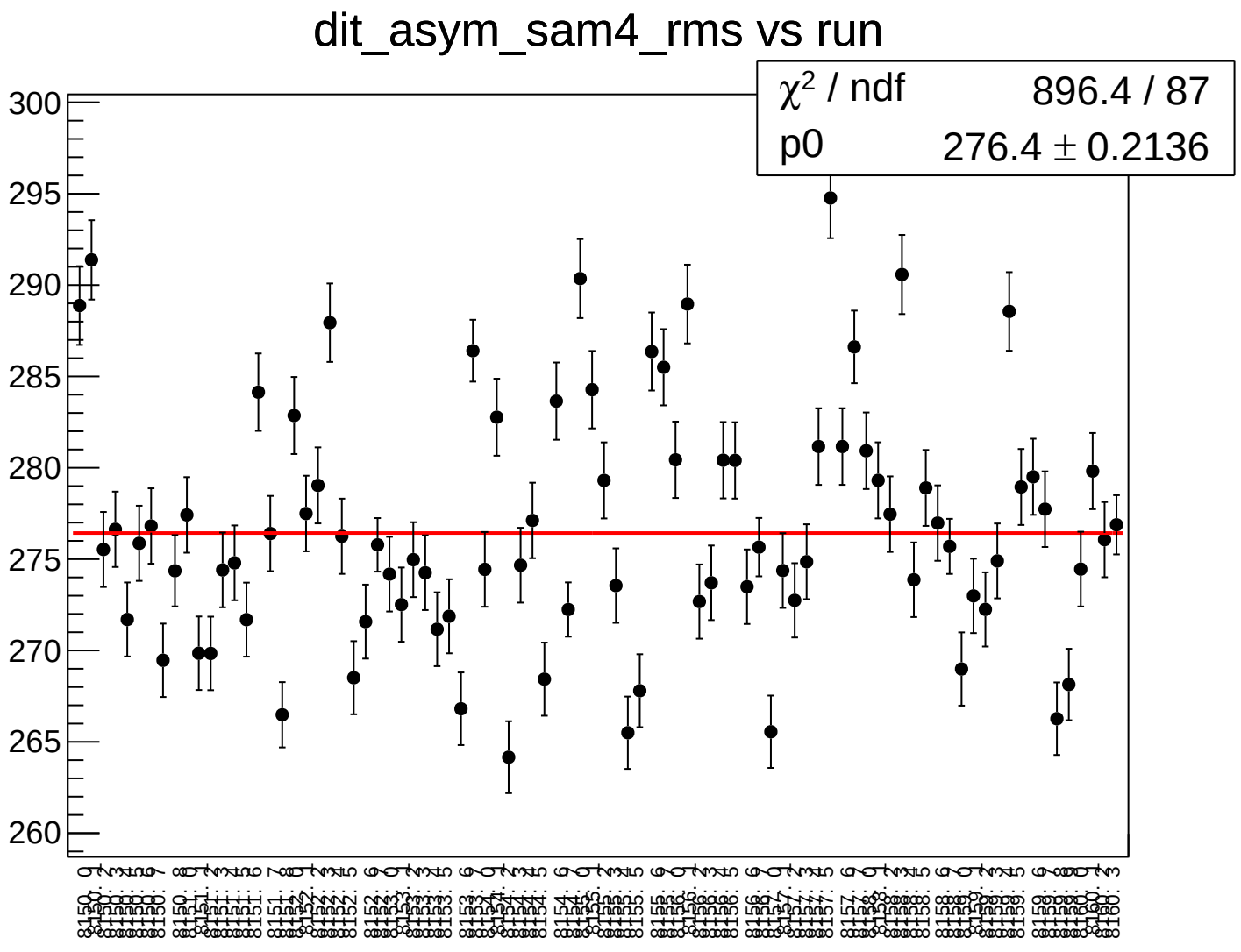

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.37 / 87
p0 −5598 ± 3905
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −639.3
Std Dev 0
2
1
0
−1
−2

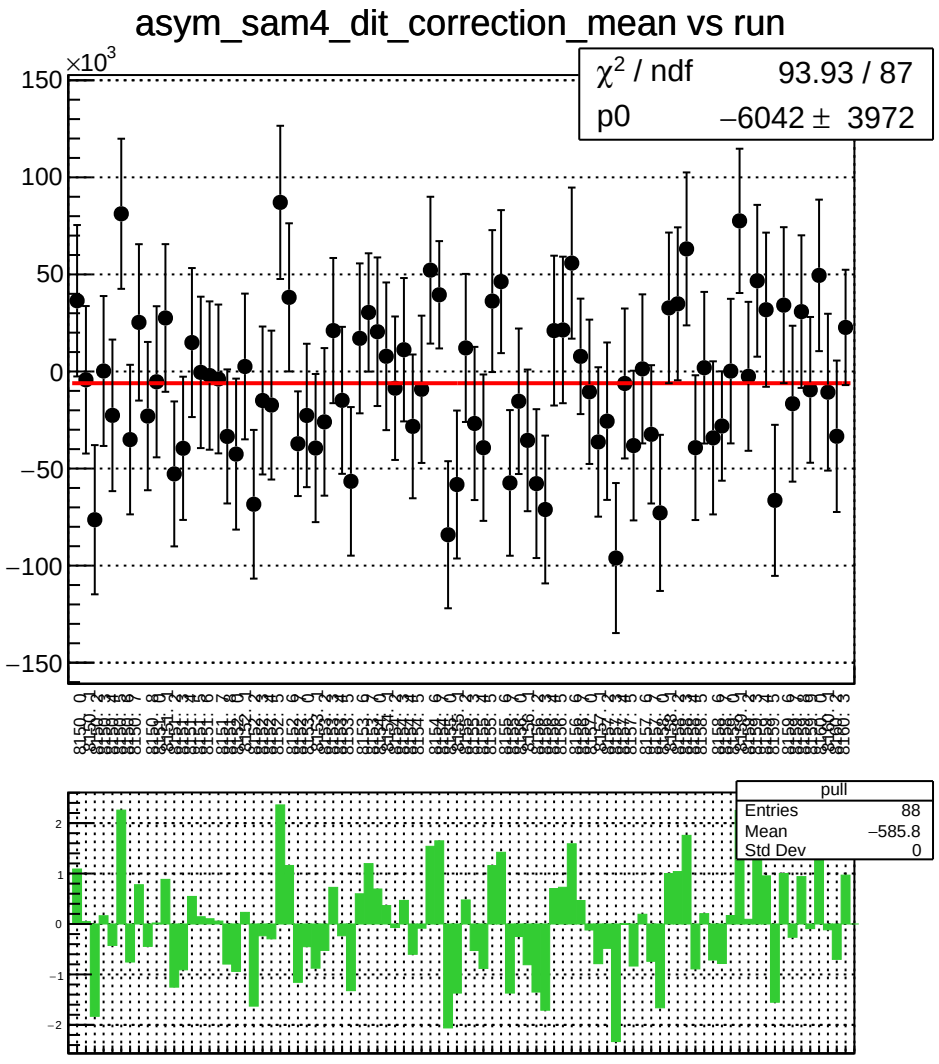

pull1D
Entries 88
Mean −0.002664
Std Dev 1.041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

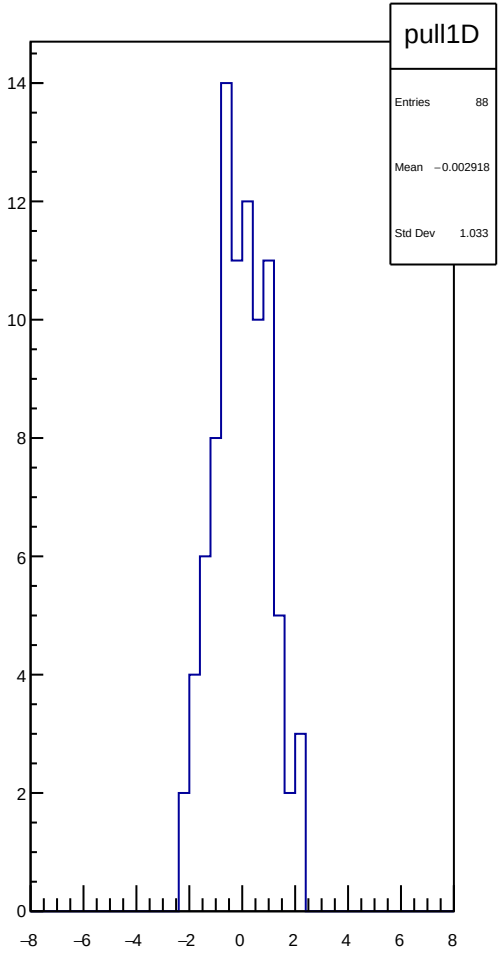

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 973.5 / 87
p0 3574 ± 2.761
3800
3700
3600
3500
3400

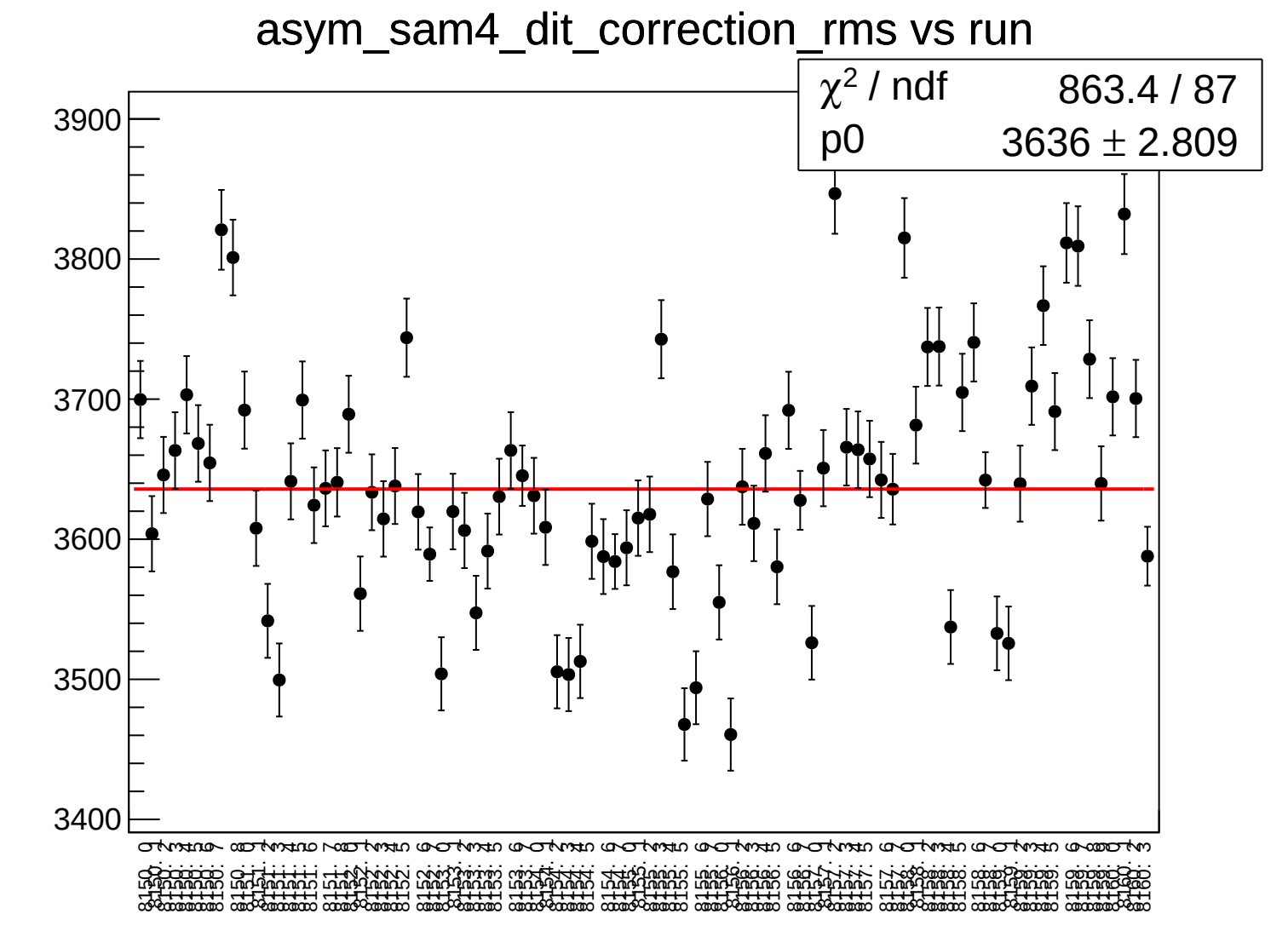

dit_asym_sam4_mean vs run
χ² / ndf 88.13 / 87
p0 118 ± 302
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 218.6
Std Dev 0
2
1
0
−1
−2
−3

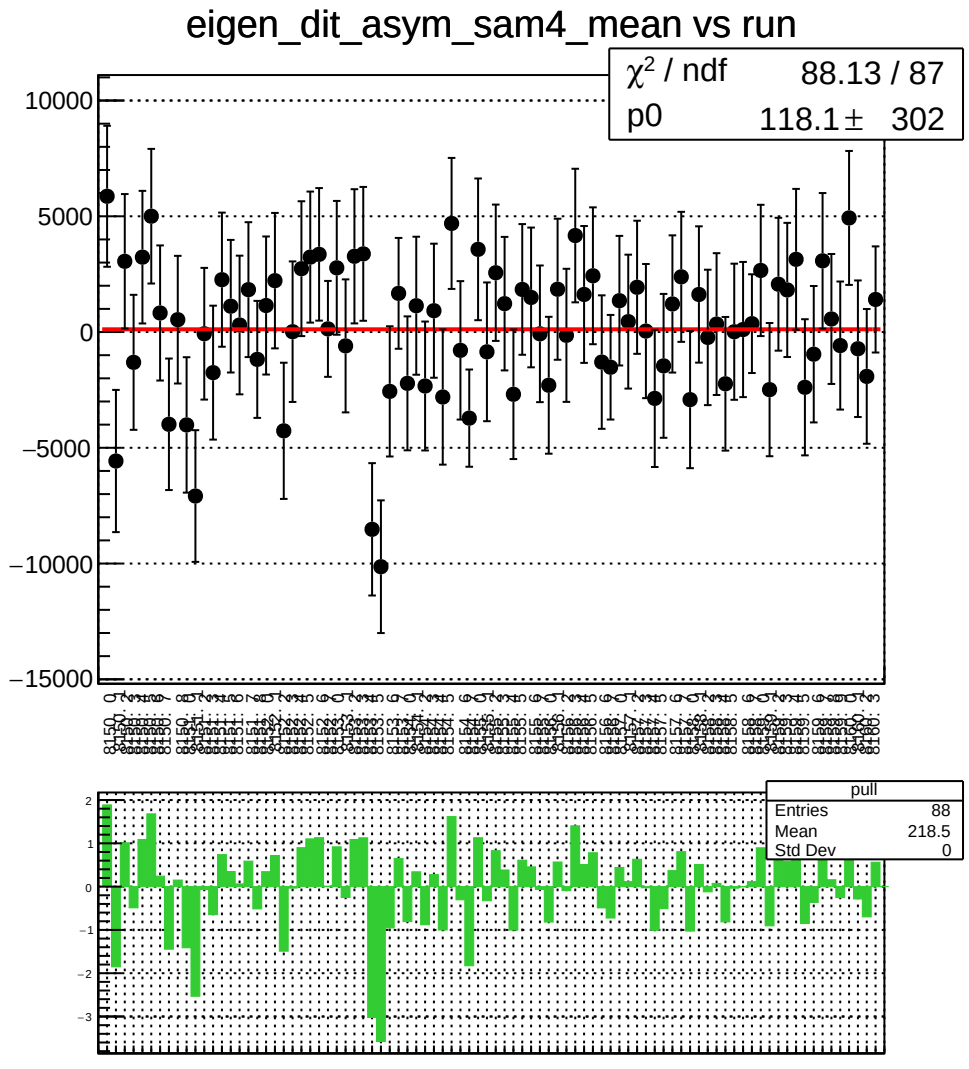

pull1D
Entries 88
Mean 0.008892
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

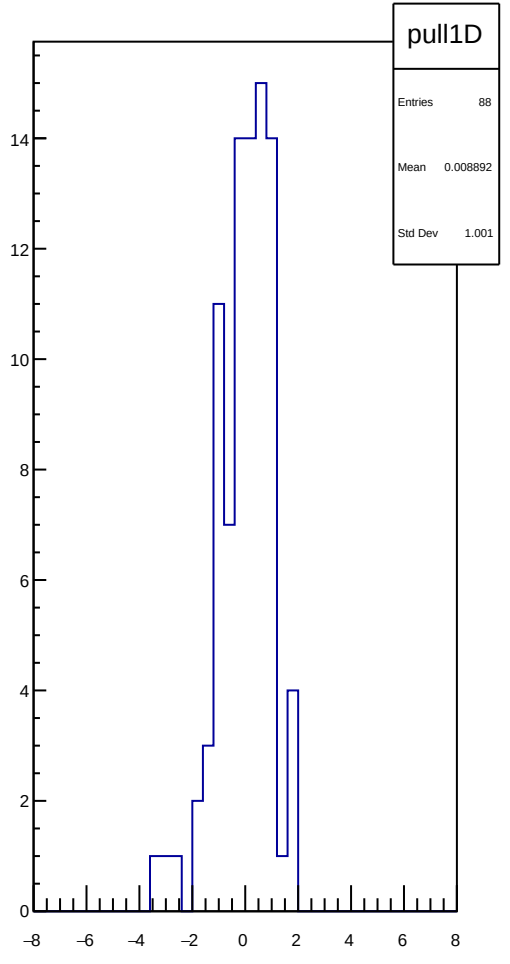

dit_asym_sam4_rms vs run
χ^2 / ndf 896.4 / 87
p0 276.4 ± 0.2136
300
295
290
285
280
275
270
265
260

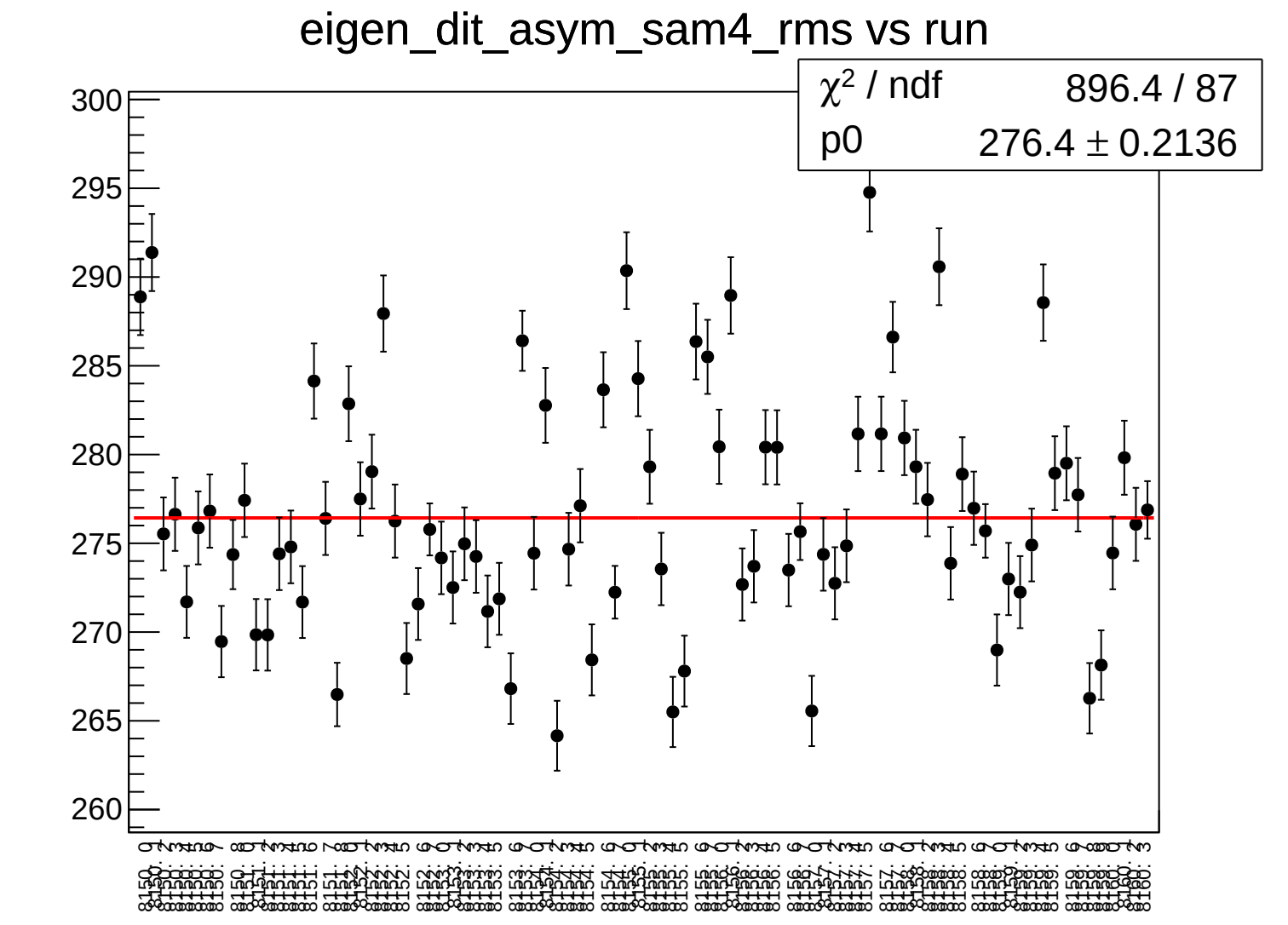

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 93.93 / 87
p0 −6042 ± 3972
pull
Entries 88
Mean −585.8
Std Dev 0

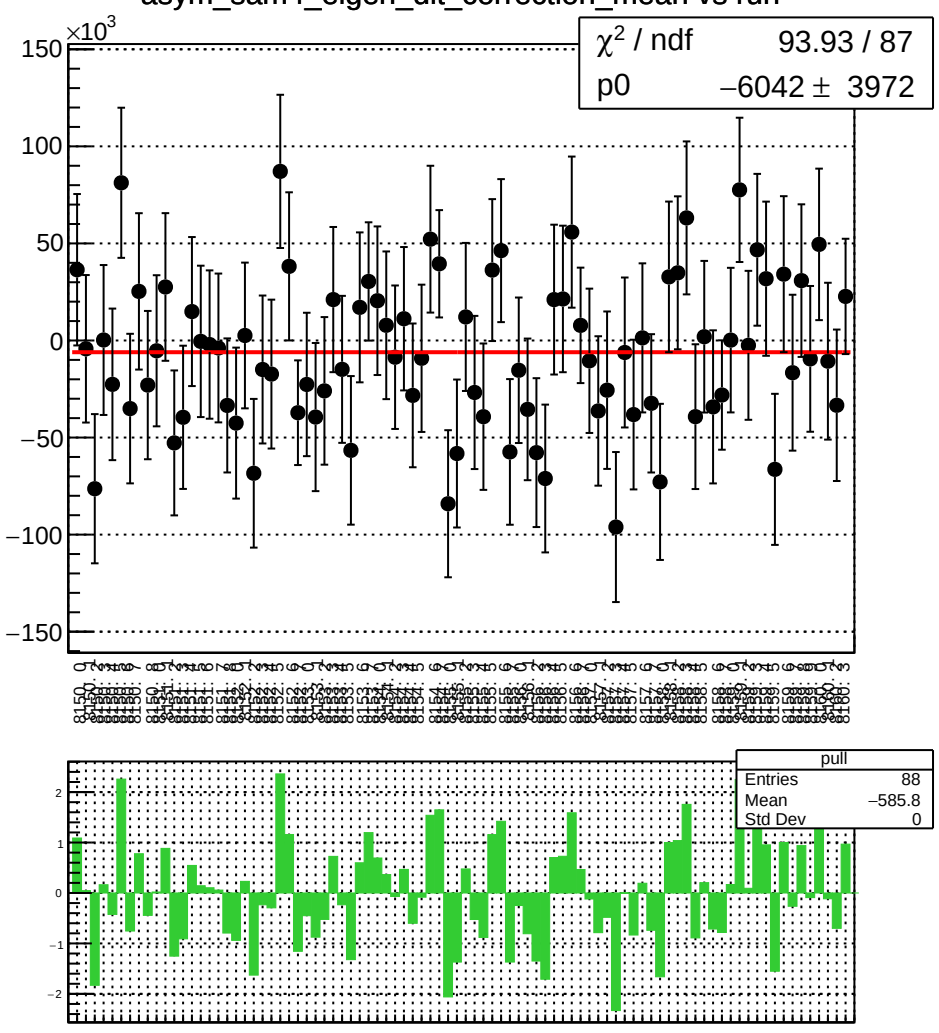

pull1D
Entries 88
Mean −0.002918
Std Dev 1.033

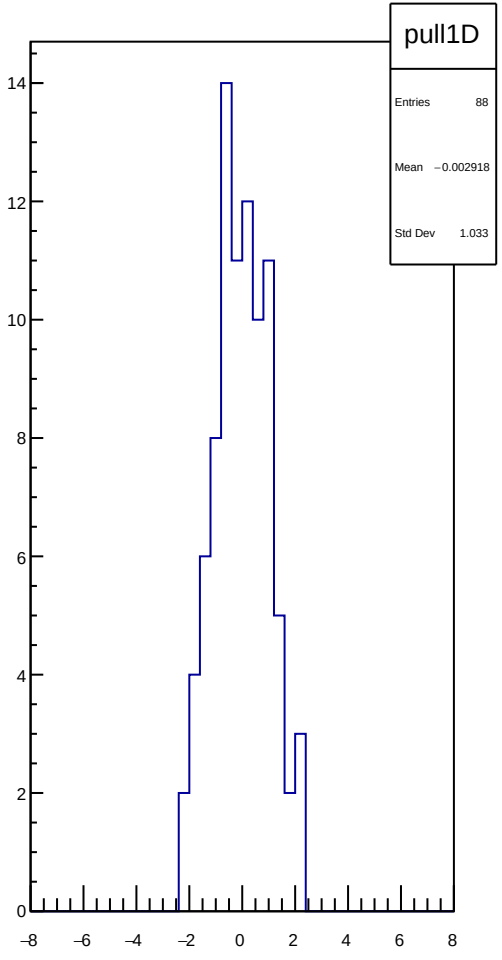

asym_sam4_dit_correction_rms vs run
χ² / ndf 863.4 / 87
p0 3636 ± 2.809
3900
3800
3700
3600
3500
3400

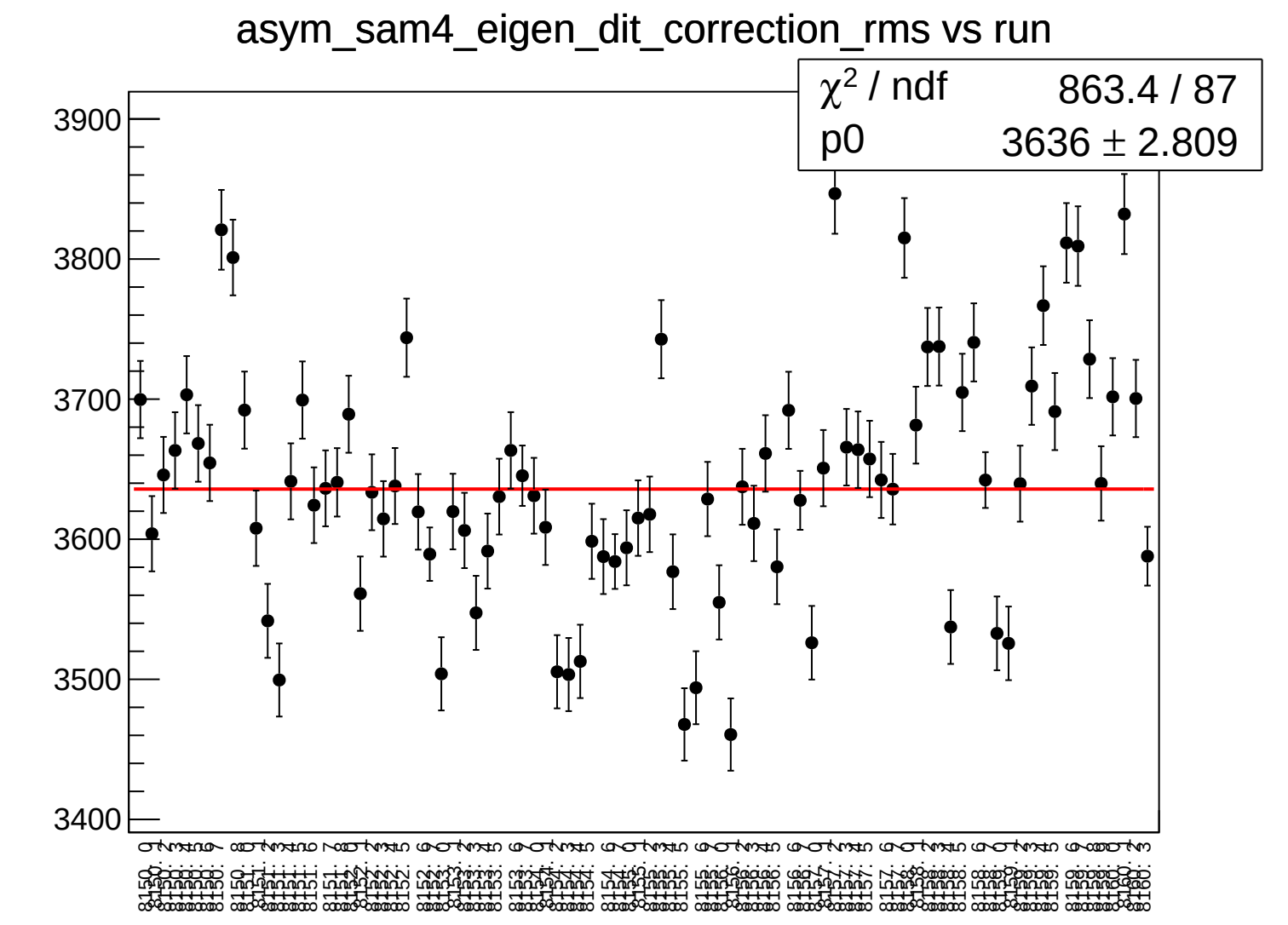

eigen_dit_asym_sam4_mean vs run
χ² / ndf 88.13 / 87
p0 118.1 ± 302
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 218.5
Std Dev 0
2
1
0
−1
−2
−3

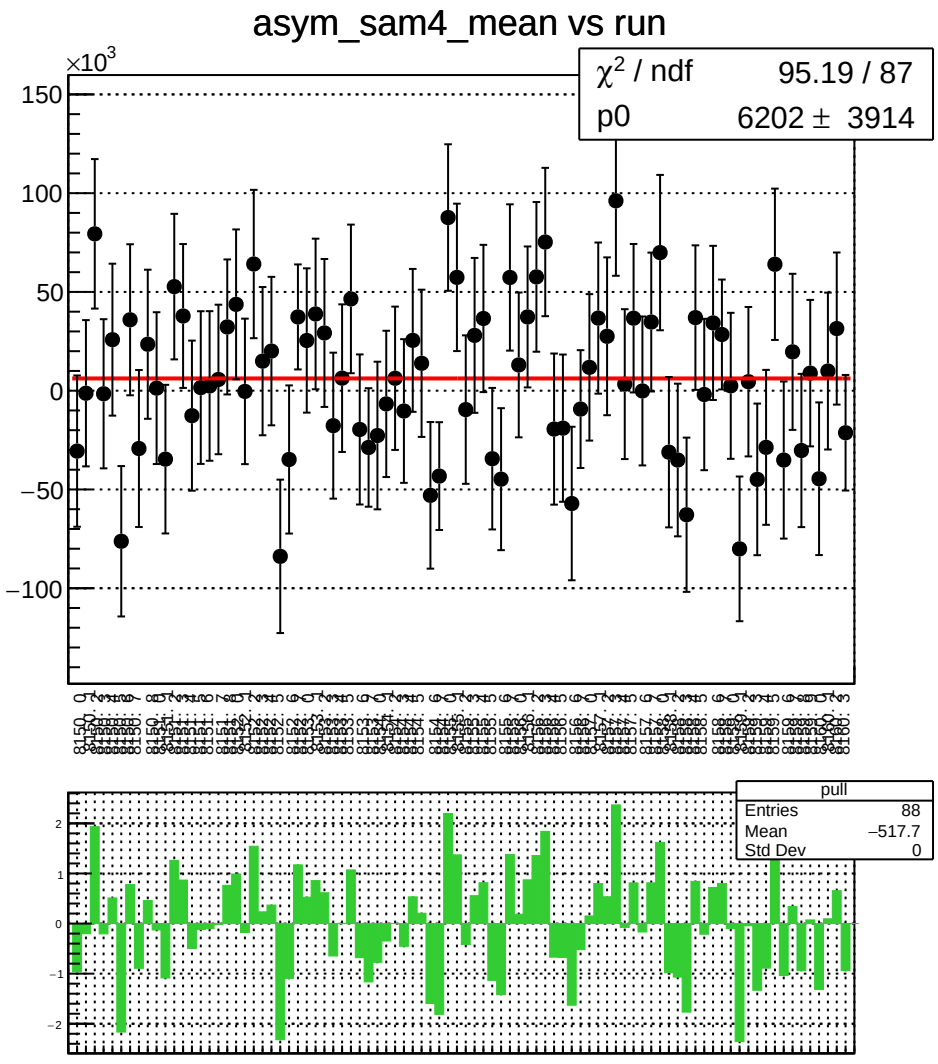

pull1D
Entries 88
Mean 0.008892
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

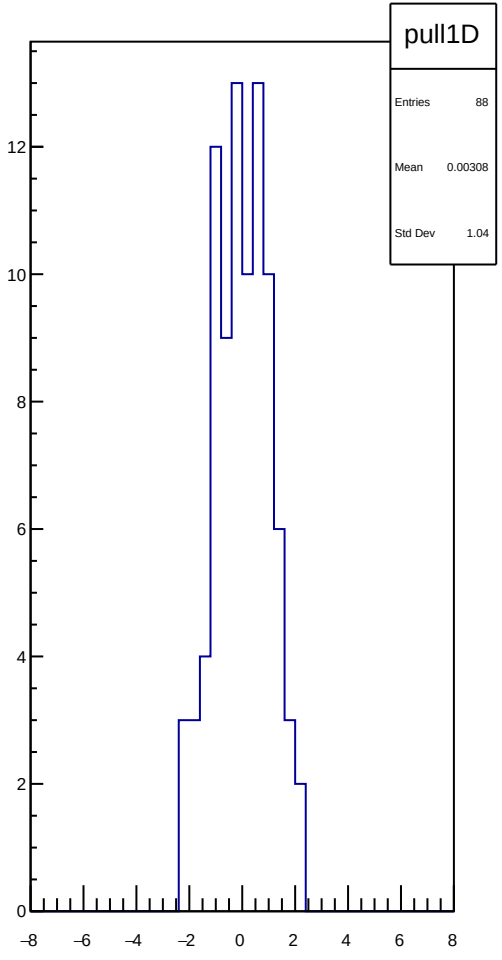

eigen_dit_asym_sam4_rms vs run
χ² / ndf 896.4 / 87
p0 276.4 ± 0.2136
300
295
290
285
280
275
270
265
260

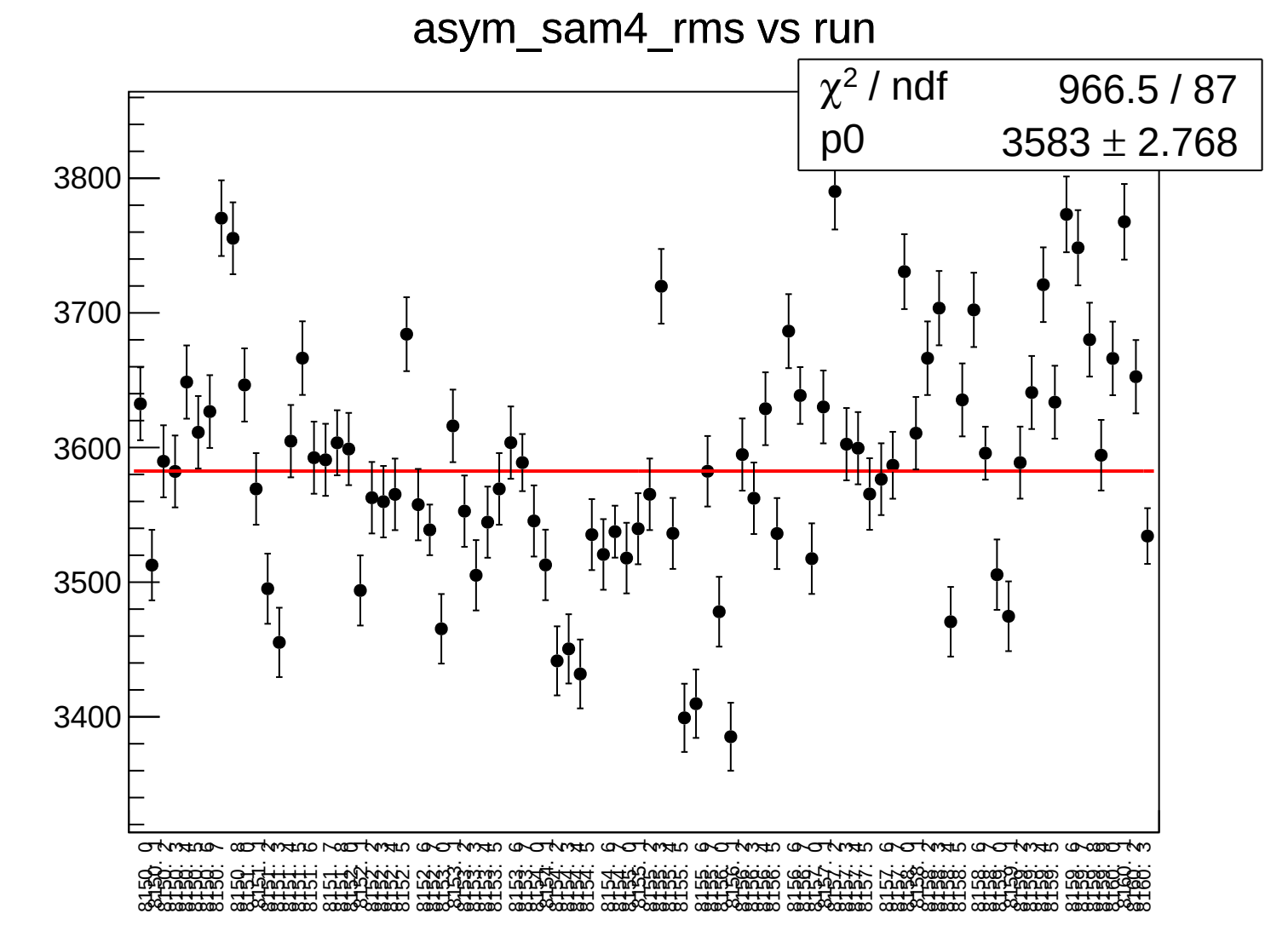

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.93 / 87
p0 −6042 ± 3972
pull
Entries 88
Mean −585.8
Std Dev 0

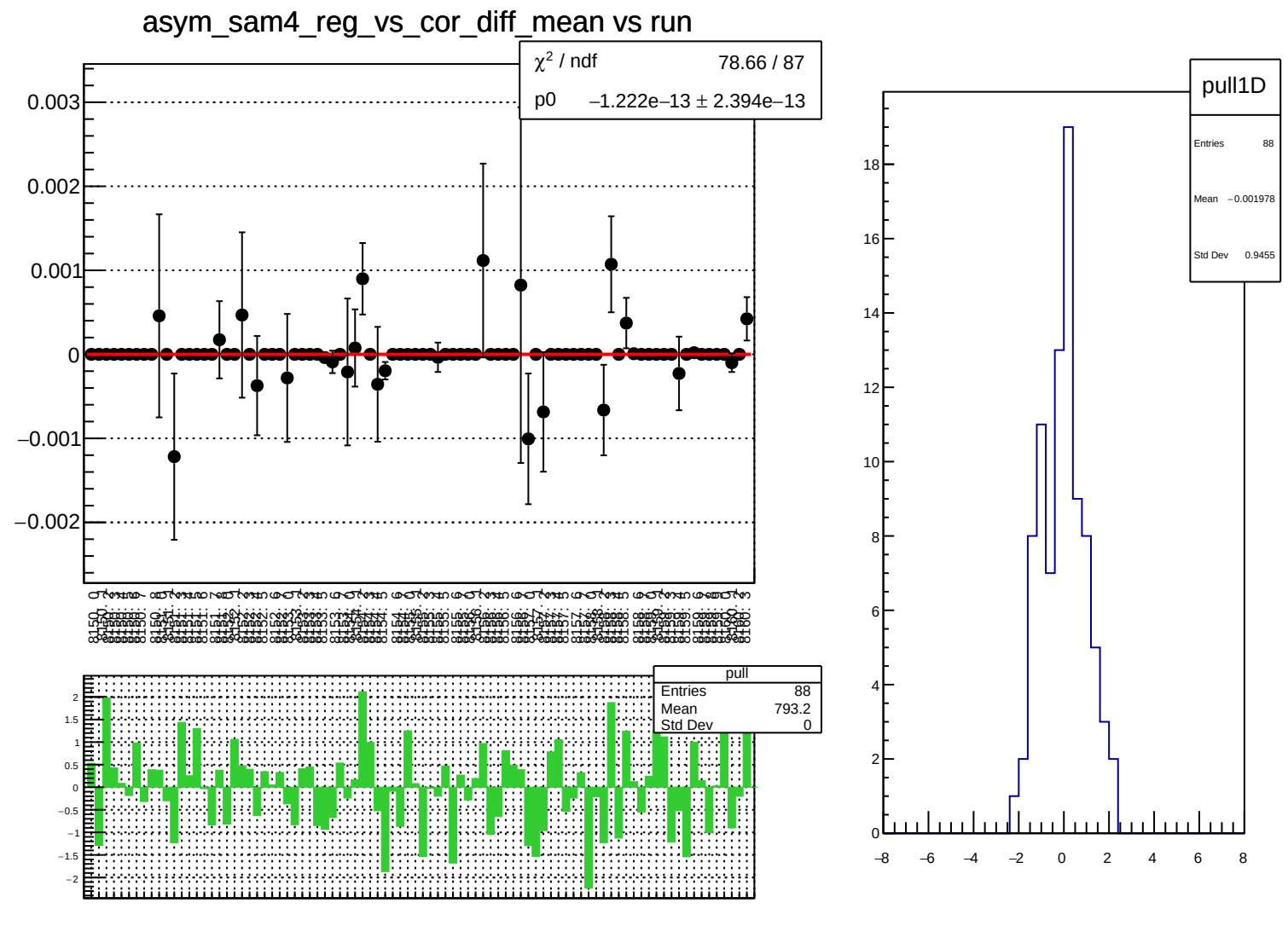

pull1D
Entries 88
Mean −0.002918
Std Dev 1.033

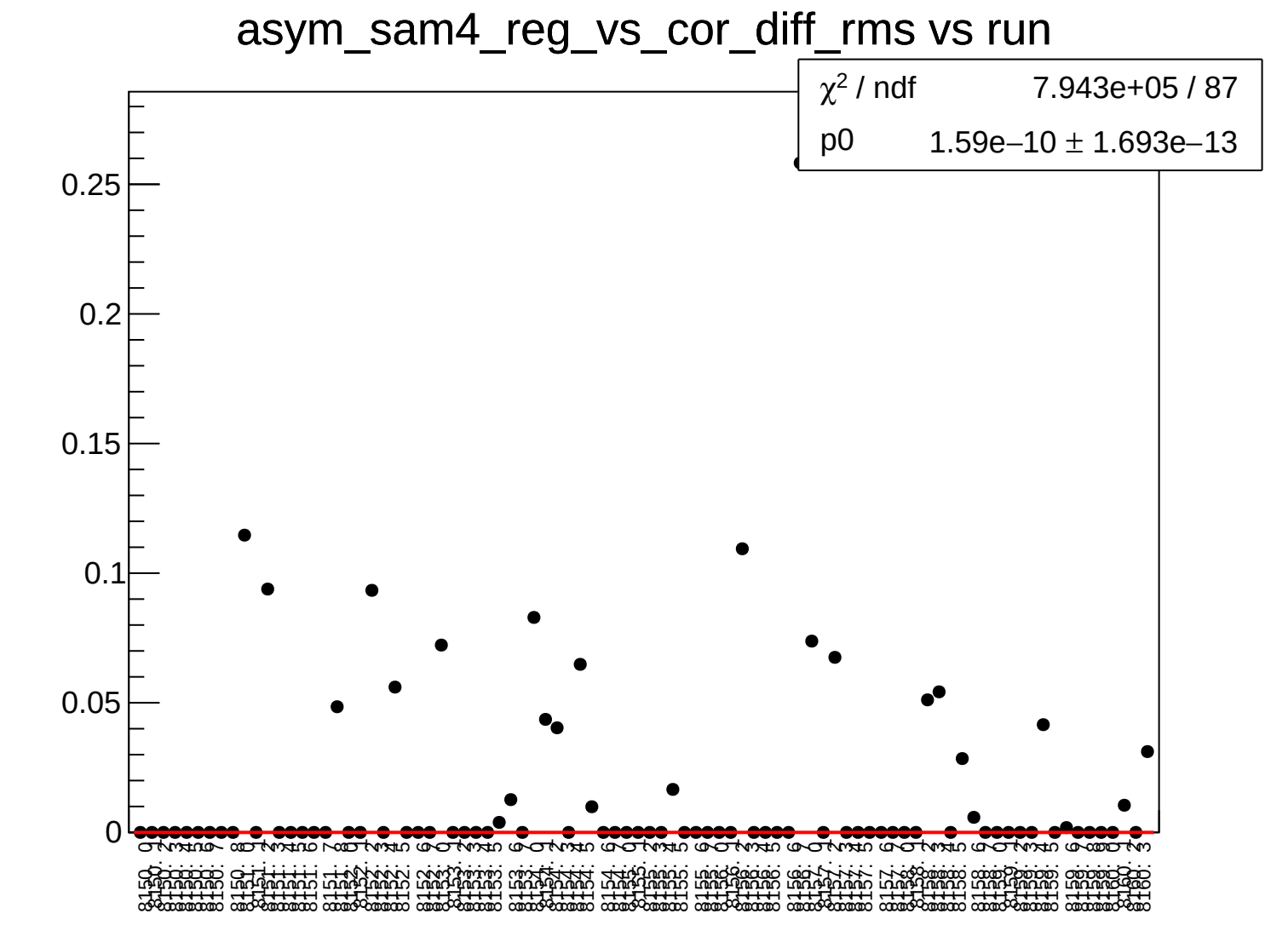

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 863.4 / 87
p0 3636 ± 2.809
3900
3800
3700
3600
3500
3400

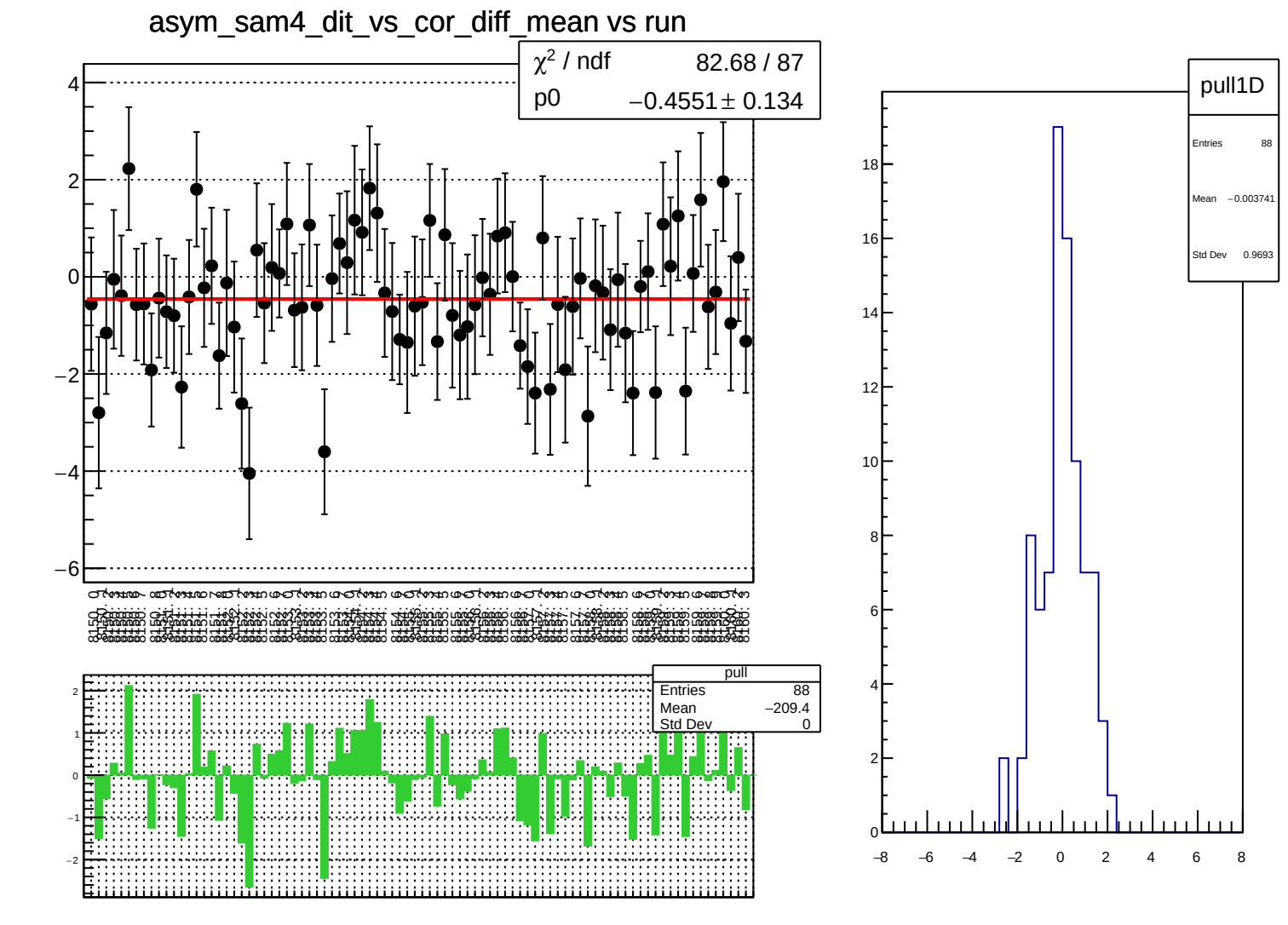

asym_sam4_mean vs run
×10^3
χ² / ndf 95.19 / 87
p0 6202 ± 3914
150
100
50
0
−50
−100
pull
Entries 88
Mean −517.7
Std Dev 0
2
1
0
−1
−2

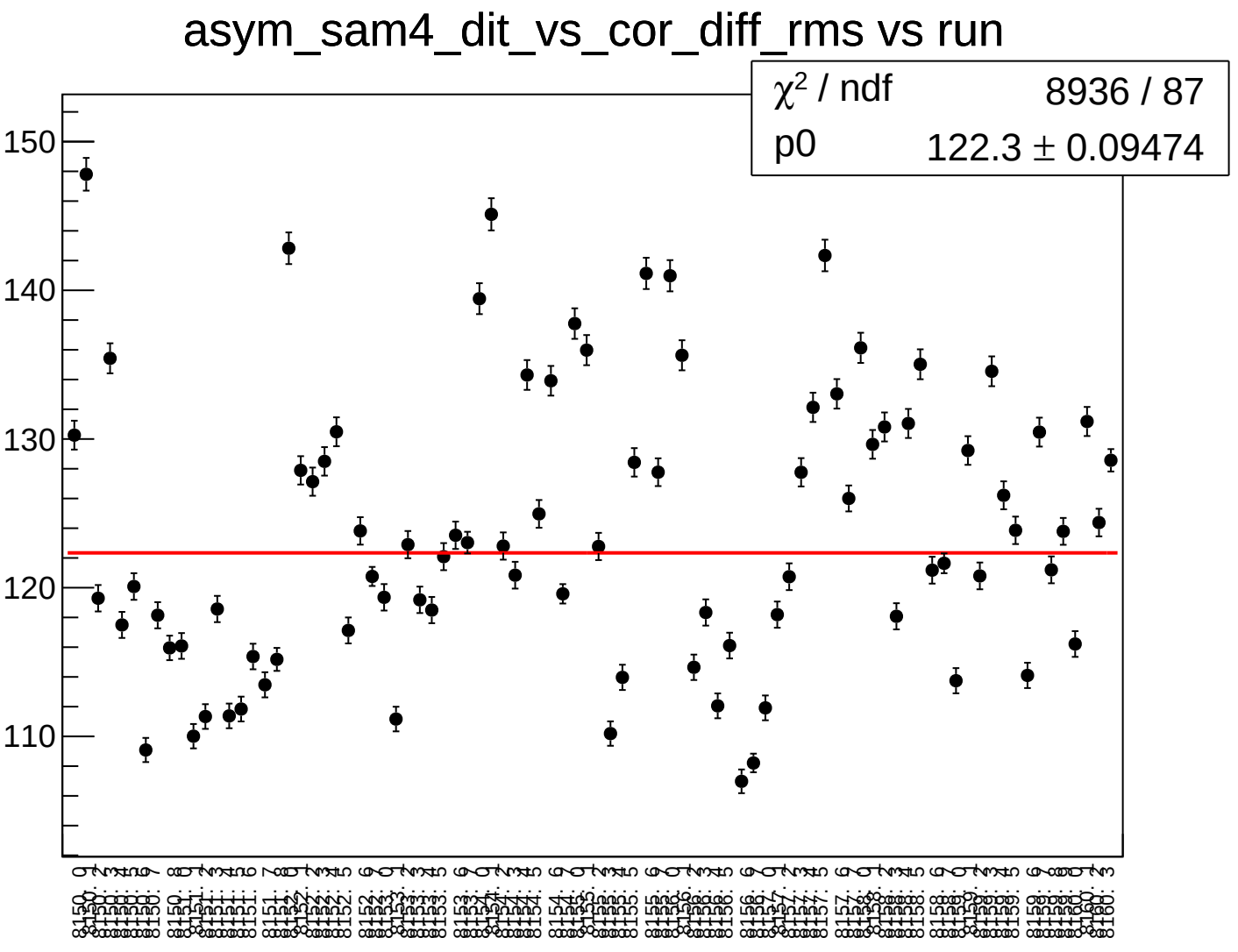

pull1D
Entries 88
Mean 0.00308
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

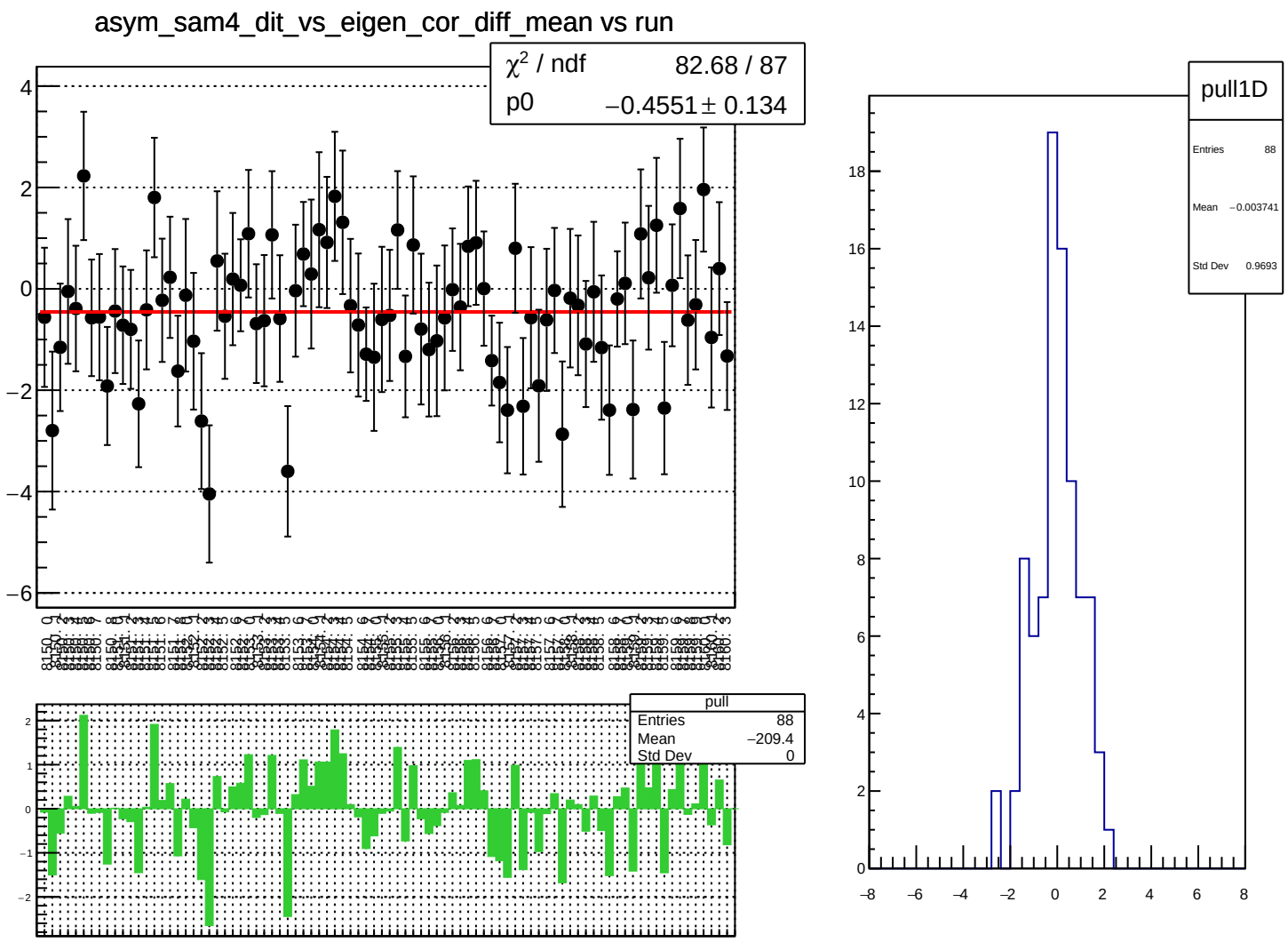

asym_sam4_rms vs run
χ² / ndf 966.5 / 87
p0 3583 ± 2.768
3800
3700
3600
3500
3400

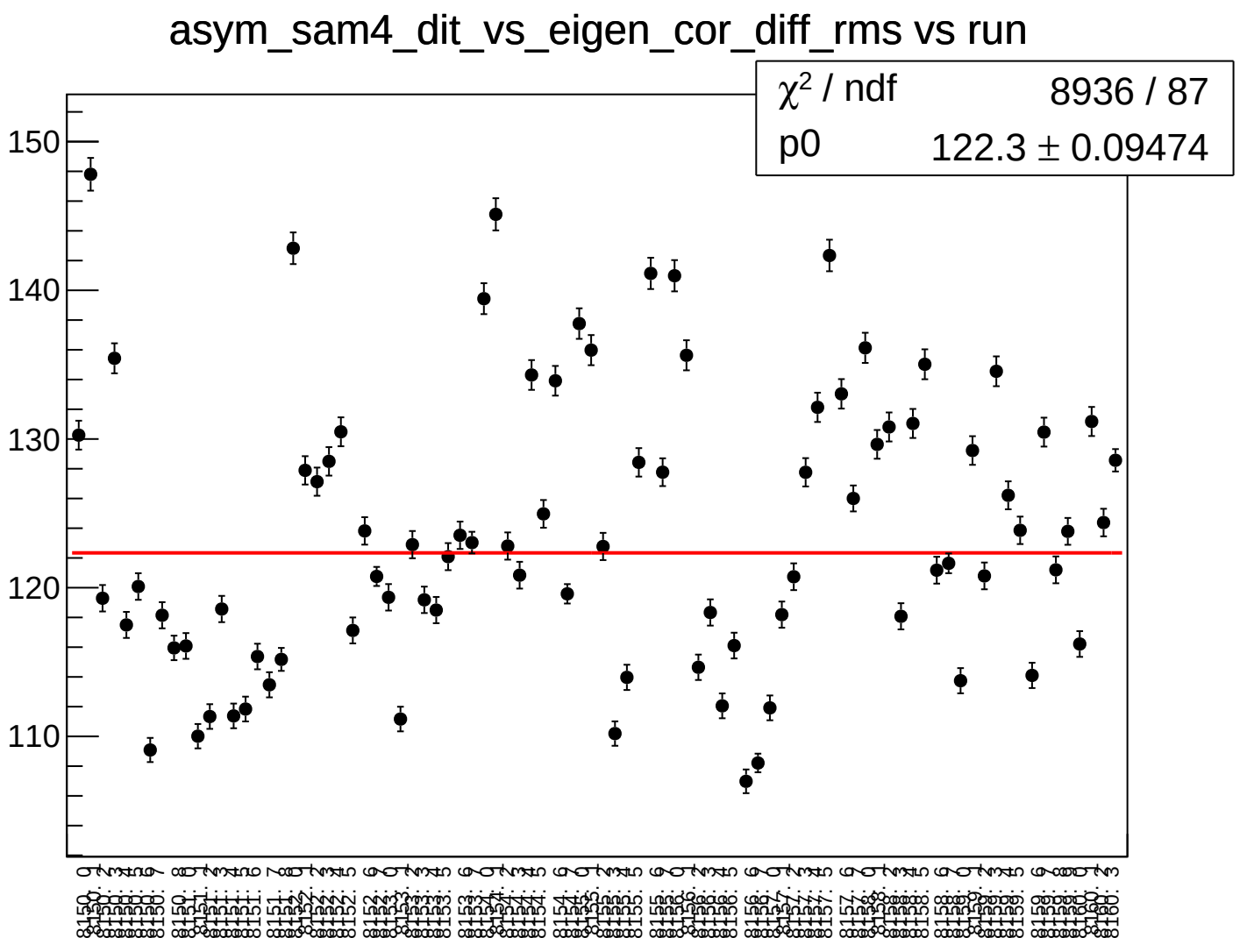

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 78.66 / 87
p0 −1.222e−13 ± 2.394e−13
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 88
Mean 793.2
Std Dev 0
pull1D
Entries 88
Mean −0.001978
Std Dev 0.9455

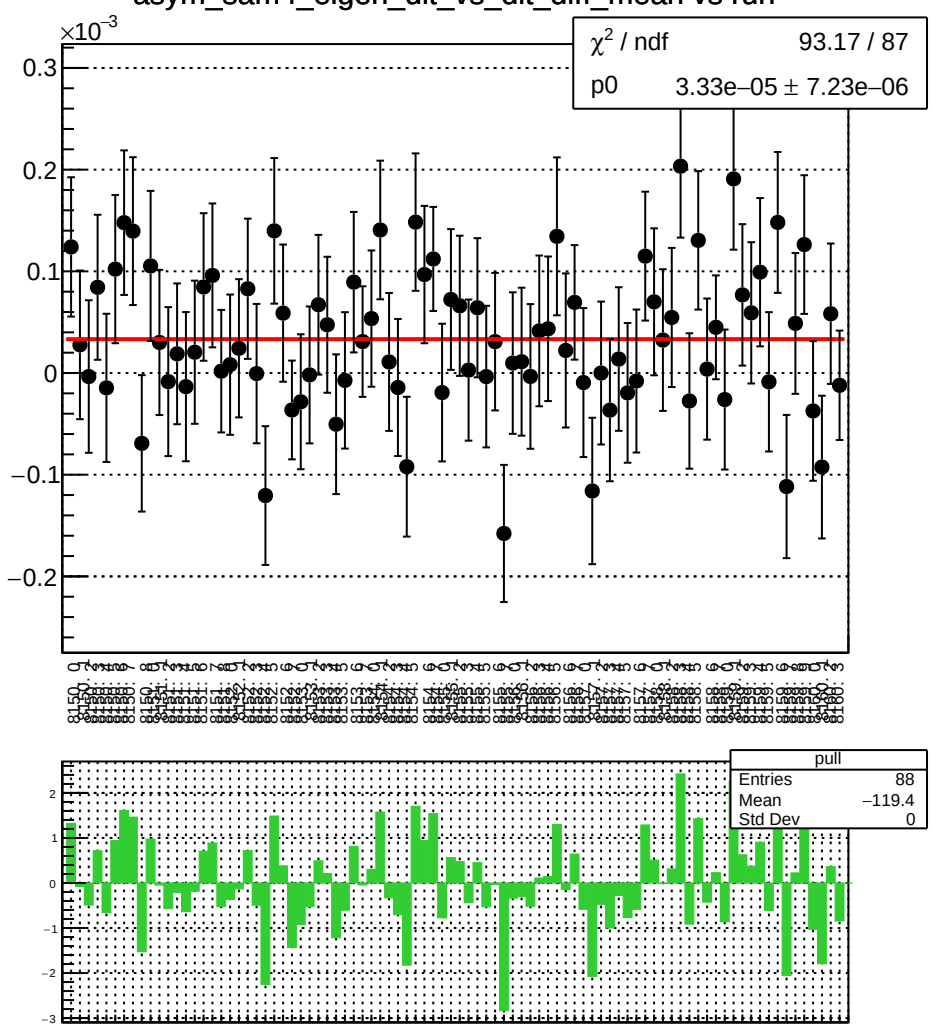

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 7.943e+05 / 87
p0 1.59e−10 ± 1.693e−13
0.25
0.2
0.15
0.1
0.05
0

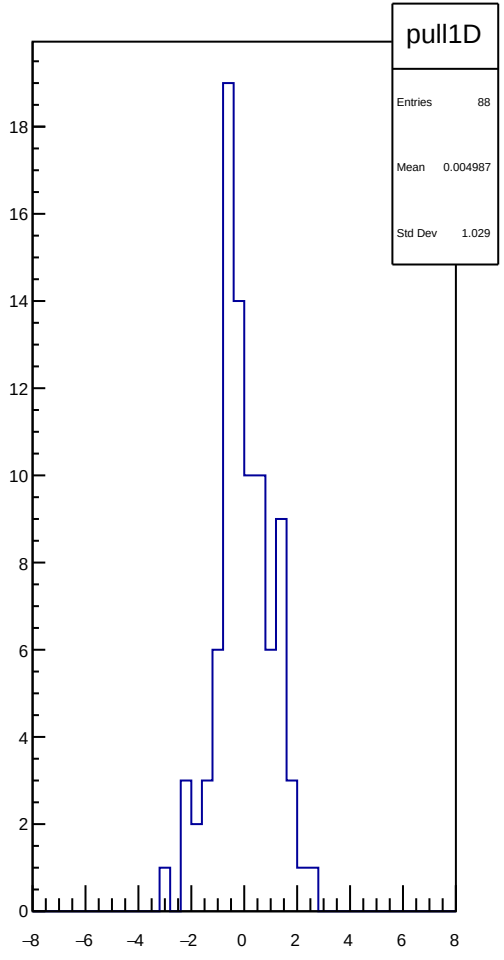

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 82.68 / 87
p0 −0.4551 ± 0.134
pull
Entries 88
Mean −209.4
Std Dev 0
pull1D
Entries 88
Mean −0.003741
Std Dev 0.9693

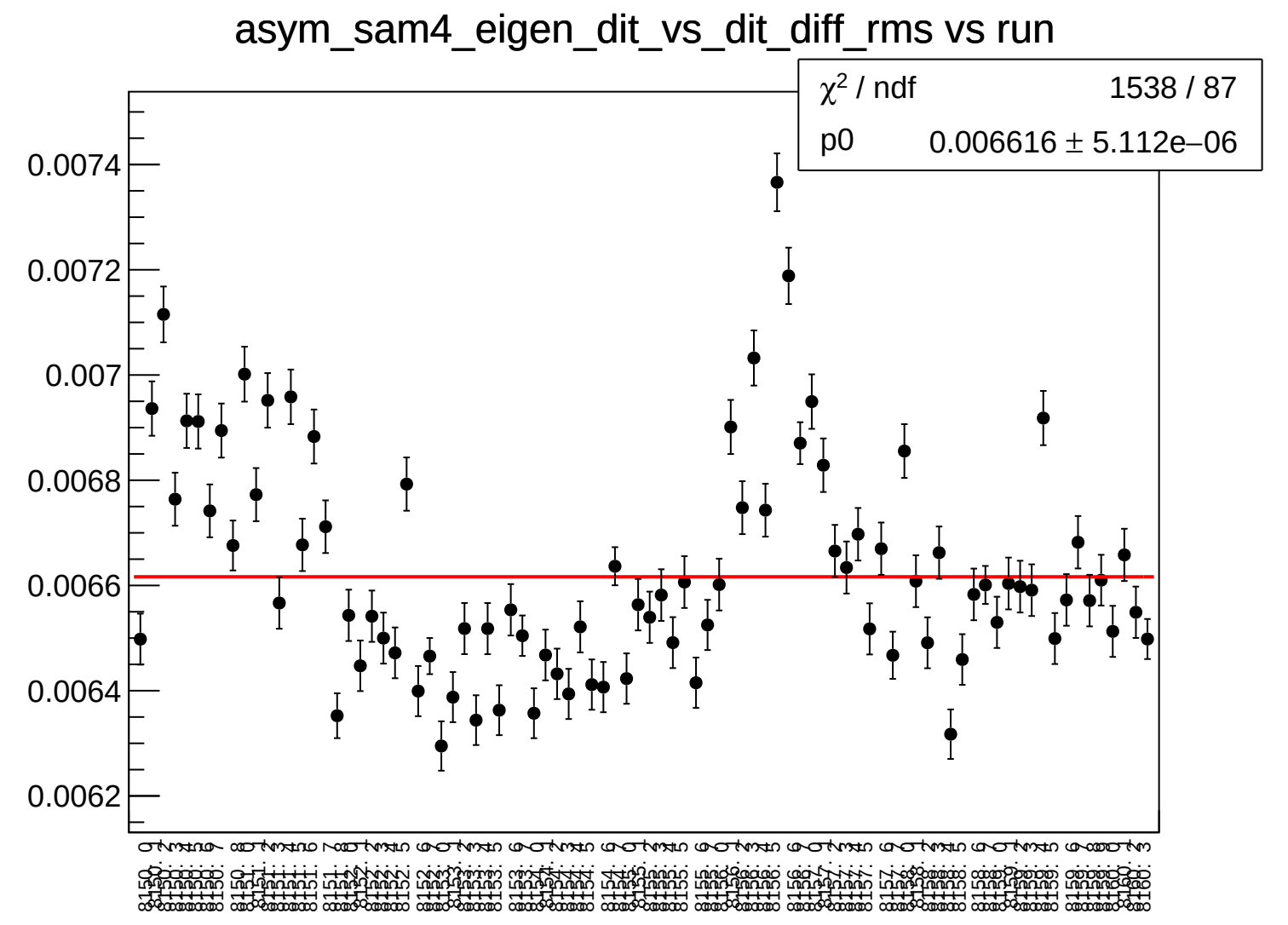

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 8936 / 87
p0 122.3 ± 0.09474
150
140
130
120
110

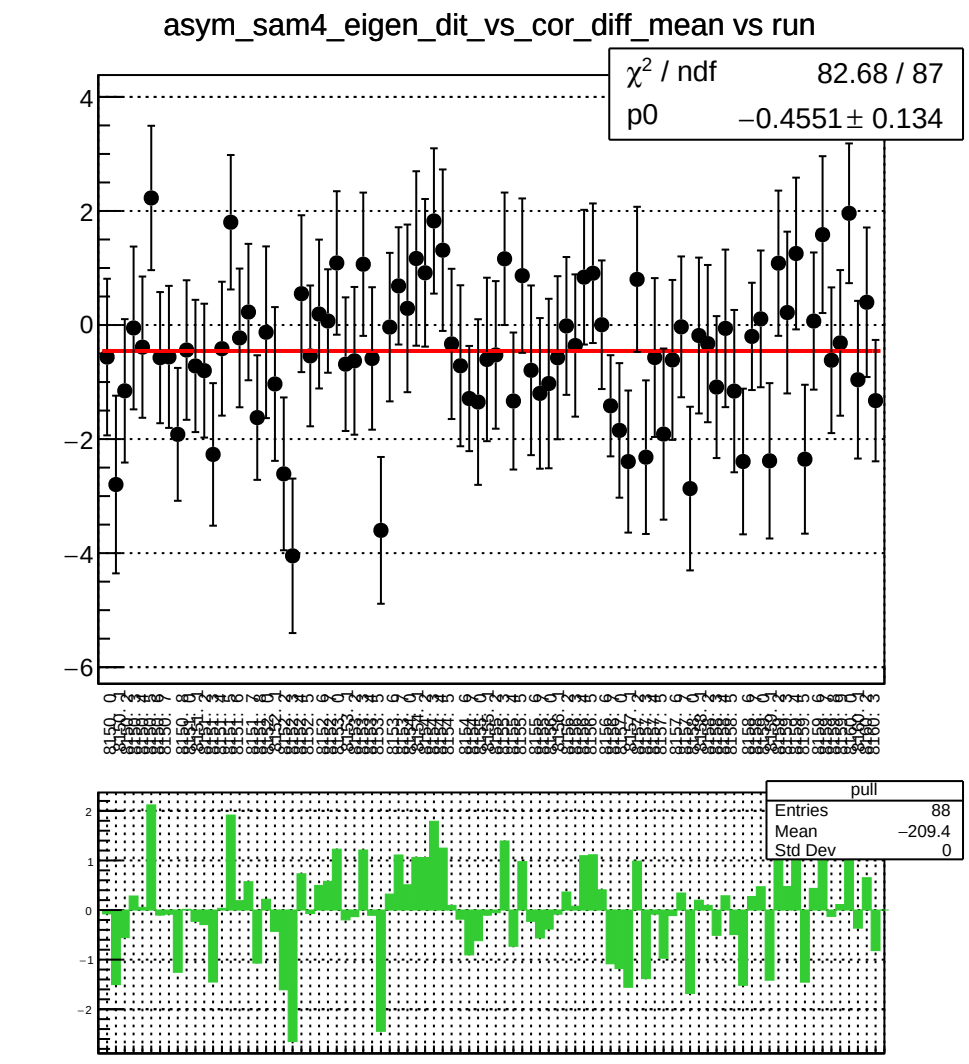

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.68 / 87
p0 −0.4551 ± 0.134
pull
Entries 88
Mean −209.4
Std Dev 0
pull1D
Entries 88
Mean −0.003741
Std Dev 0.9693

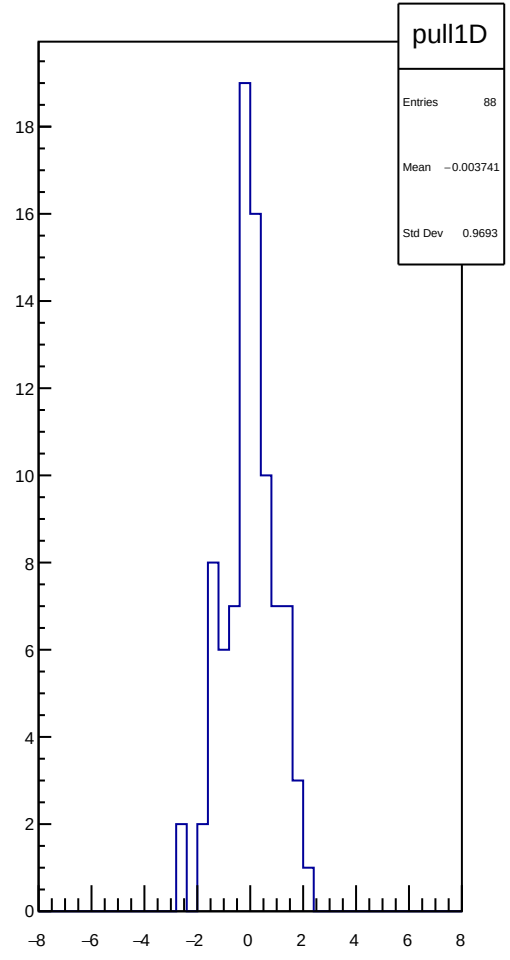

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8936 / 87
p0 122.3 ± 0.09474
150
140
130
120
110

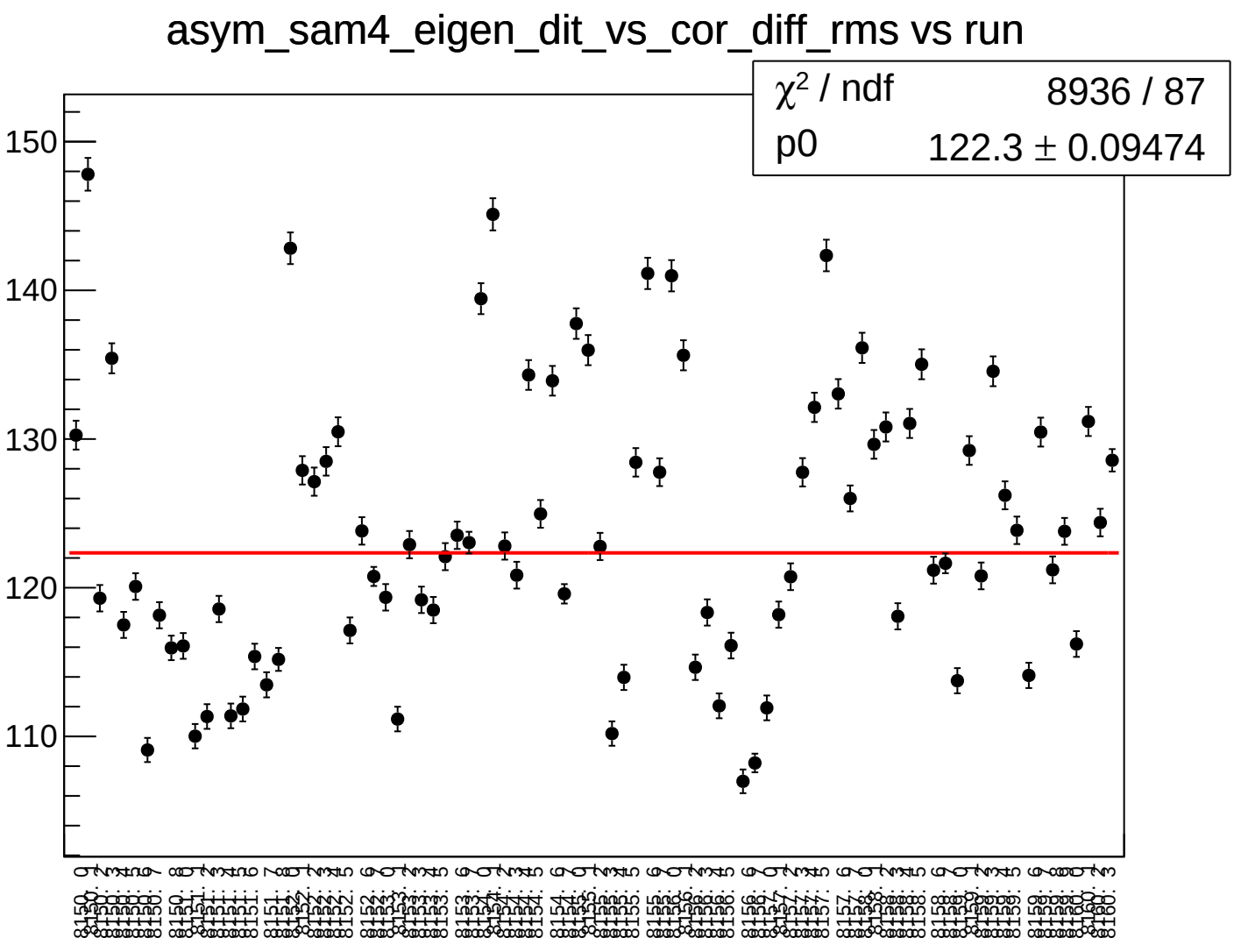

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.17 / 87
p0 3.33e–05 ± 7.23e–06
pull
Entries 88
Mean –119.4
Std Dev 0

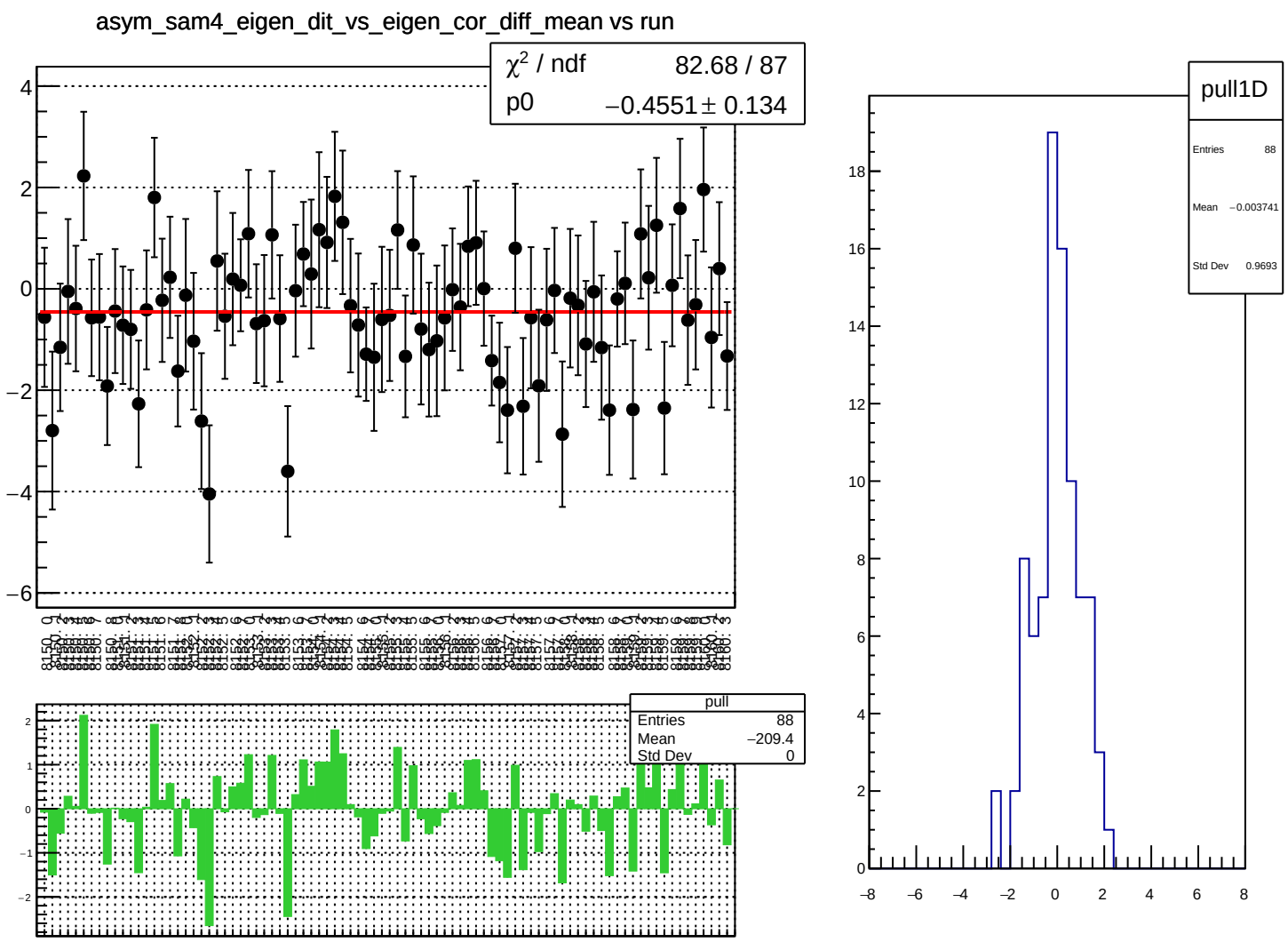

pull1D
Entries 88
Mean 0.004987
Std Dev 1.029

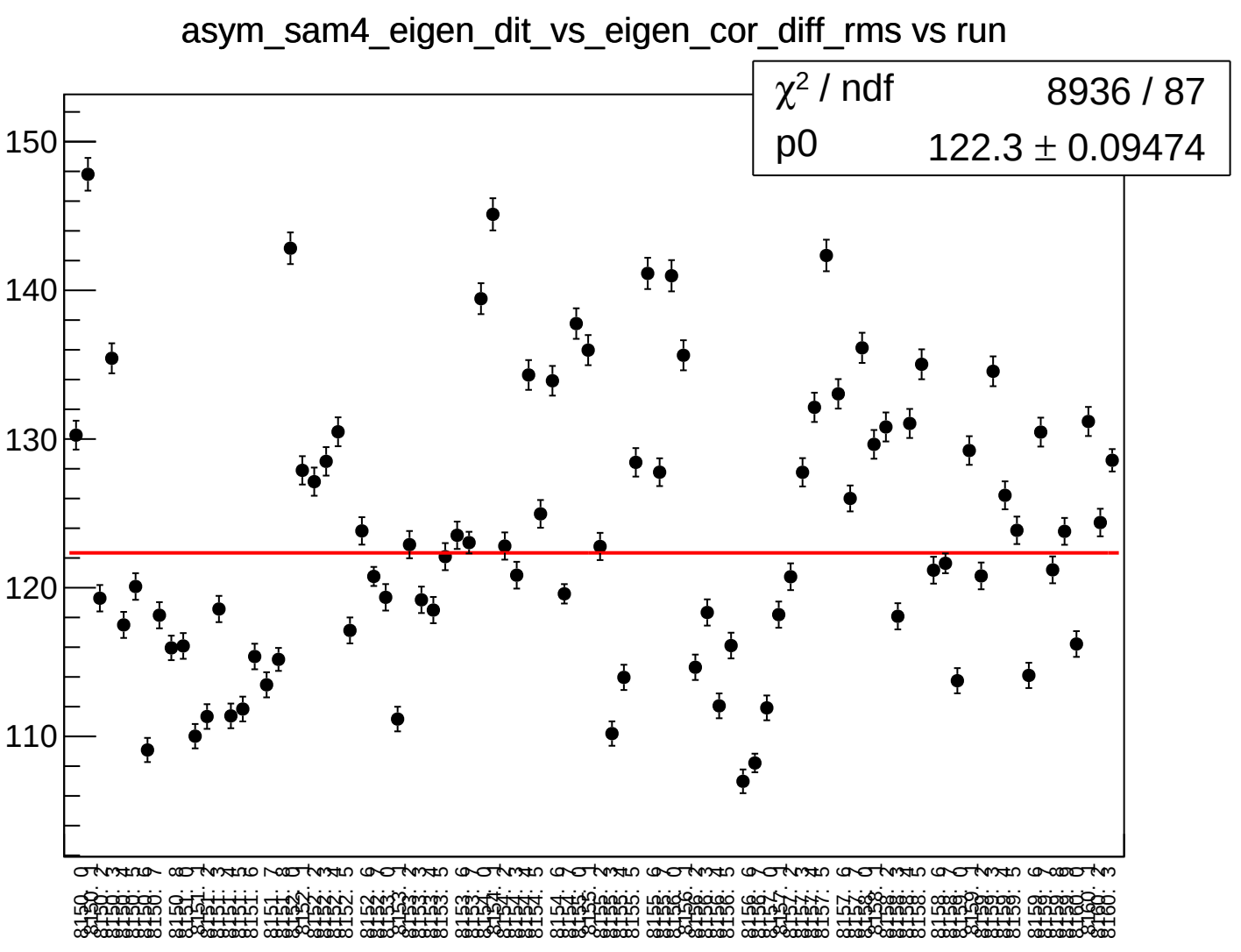

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1538 / 87
p0 0.006616 ± 5.112e−06
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062

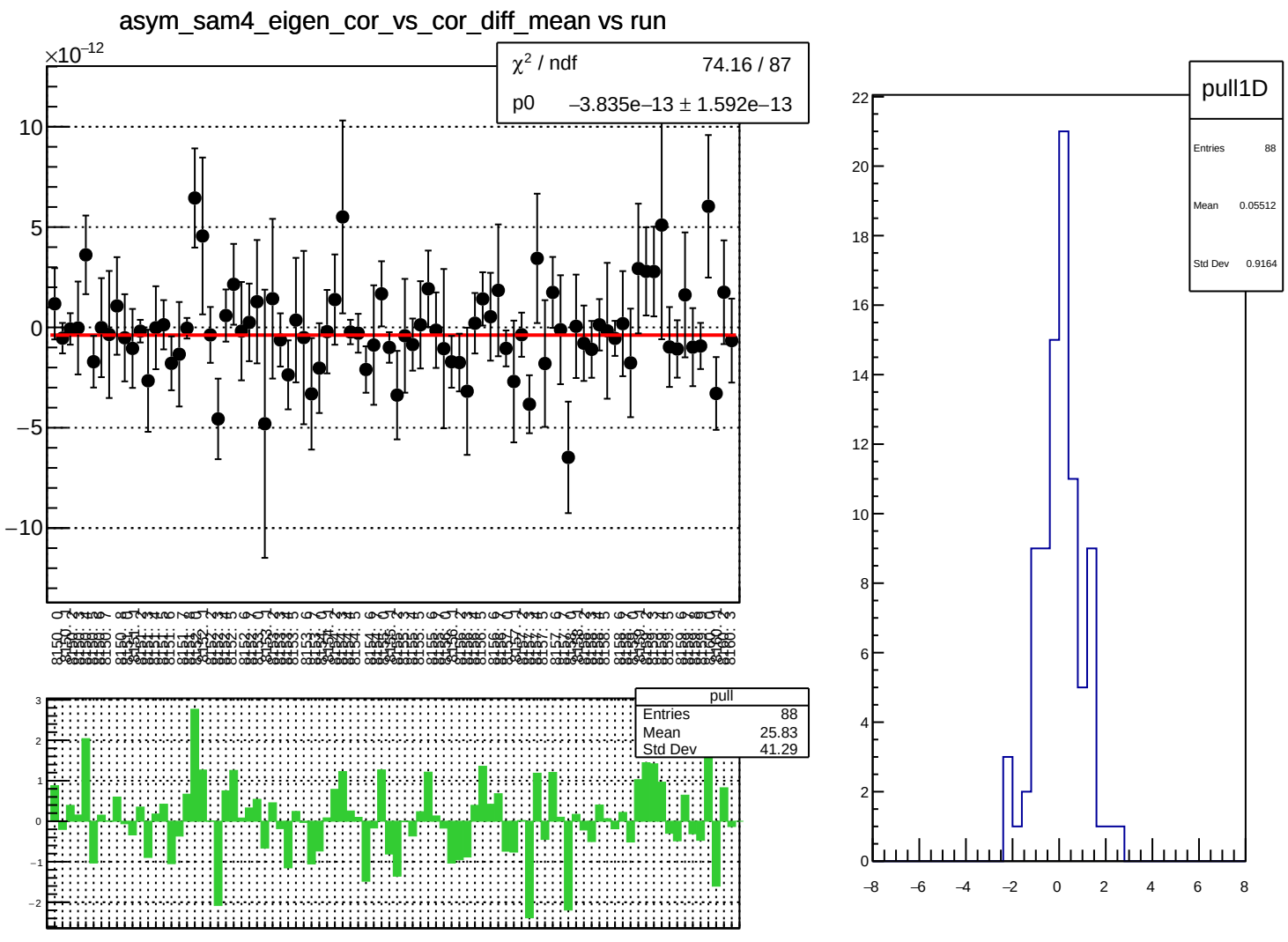

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.68 / 87
p0 −0.4551 ± 0.134
pull
Entries 88
Mean −209.4
Std Dev 0

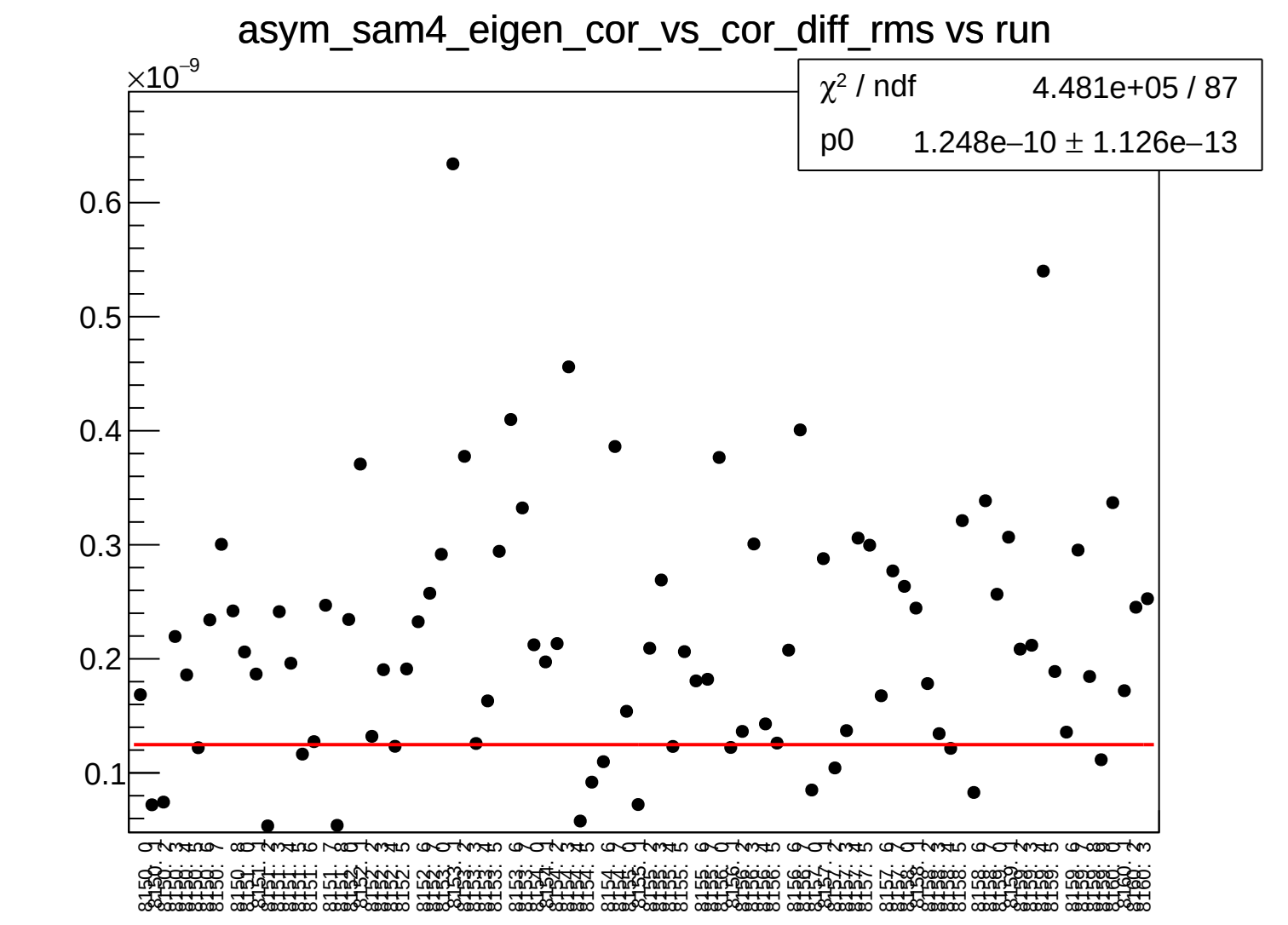

pull1D
Entries 88
Mean −0.003741
Std Dev 0.9693

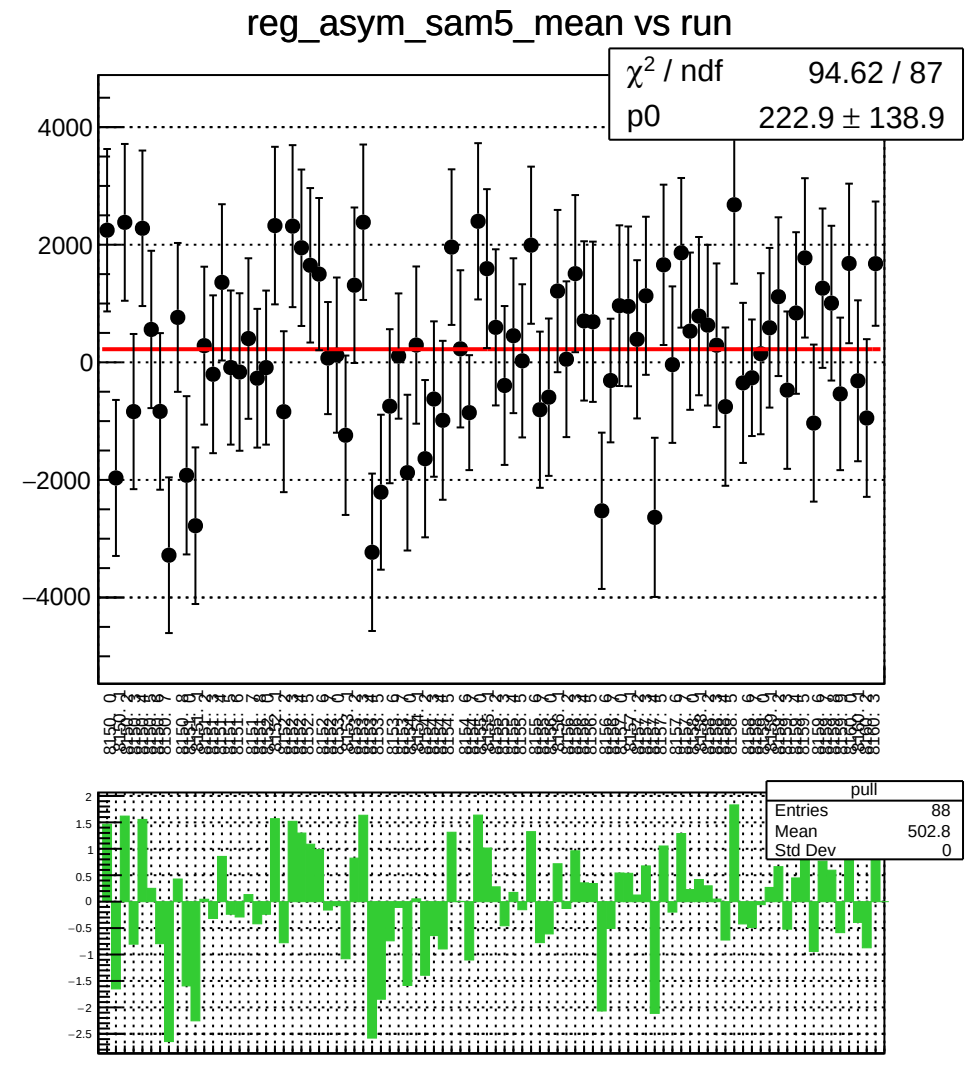

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8936 / 87
p0 122.3 ± 0.09474
150
140
130
120
110

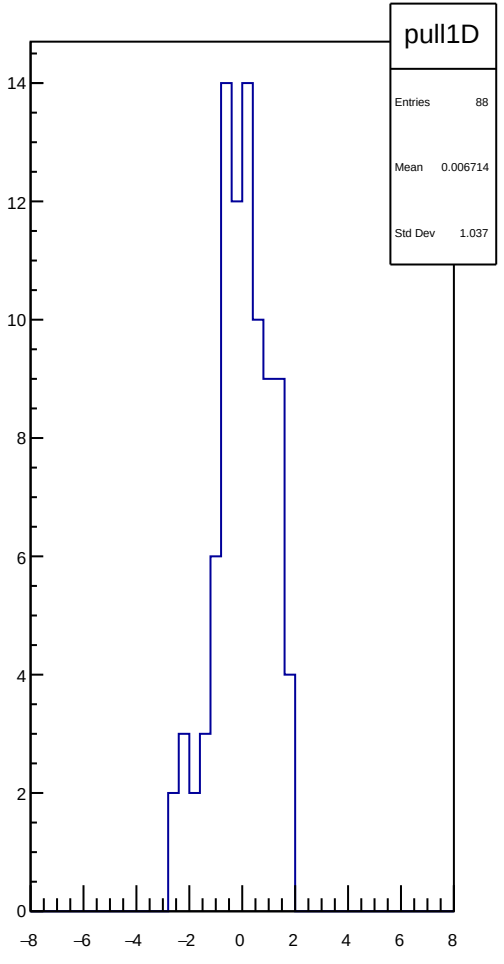

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.68 / 87
p0 −0.4551 ± 0.134
pull
Entries 88
Mean −209.4
Std Dev 0
pull1D
Entries 88
Mean −0.003741
Std Dev 0.9693

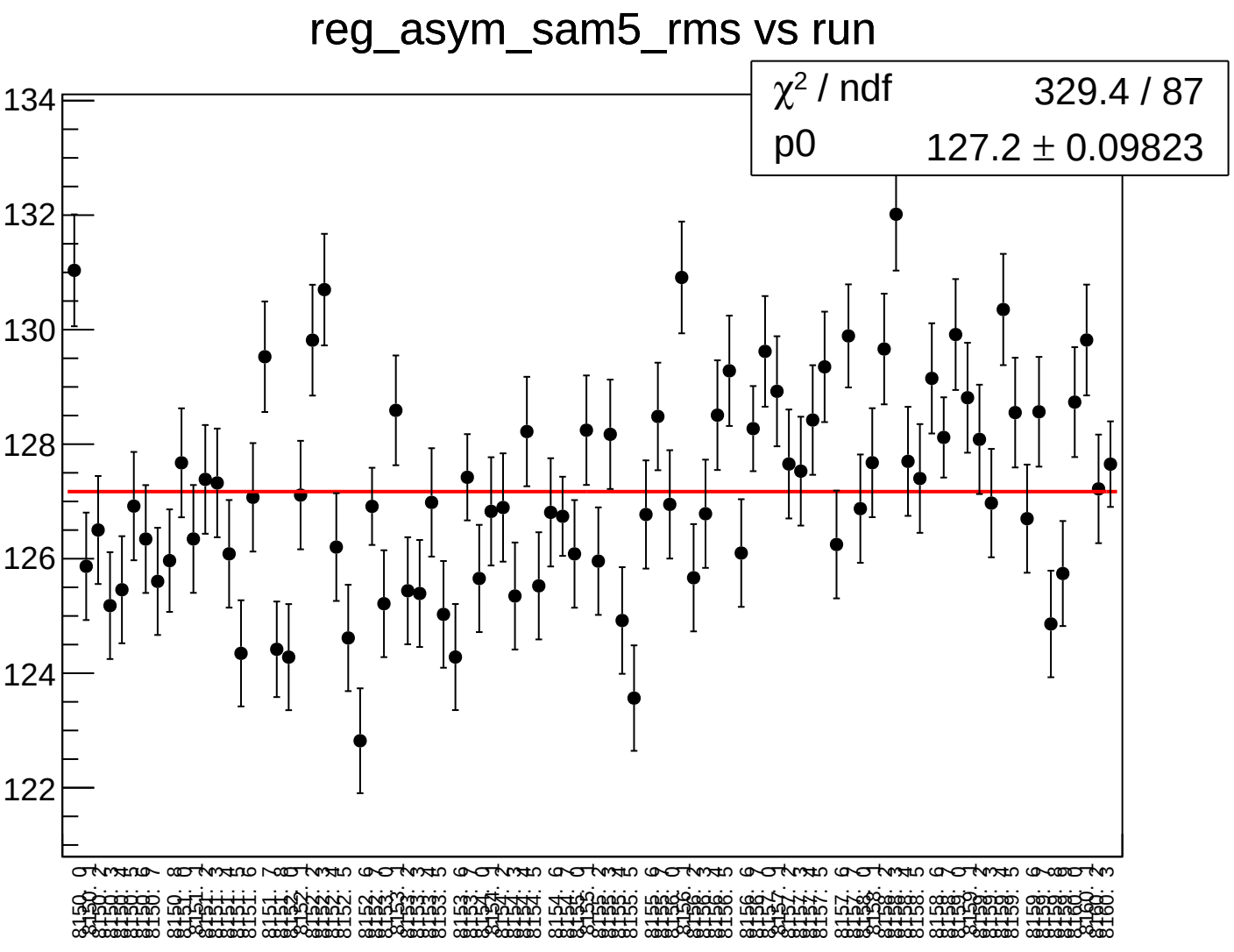

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8936 / 87
p0 122.3 ± 0.09474
150
140
130
120
110

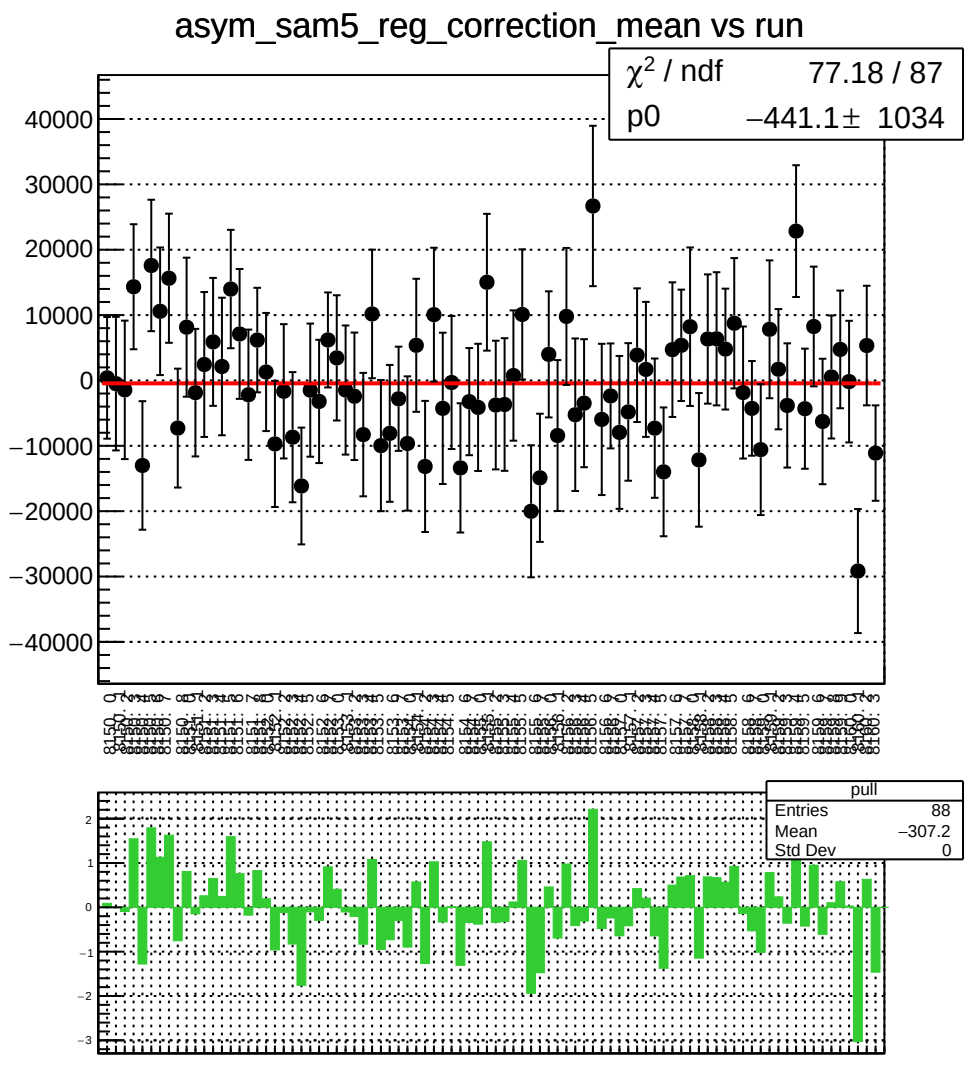

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.16 / 87
p0 −3.835e−13 ± 1.592e−13
10
5
0
−5
−10
pull
Entries 88
Mean 25.83
Std Dev 41.29
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.05512
Std Dev 0.9164
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

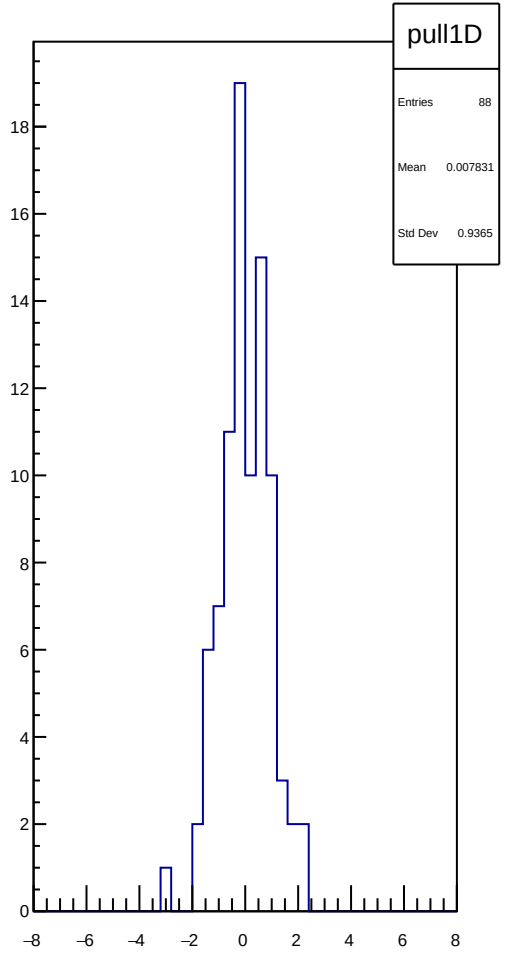

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.481e+05 / 87
p0 1.248e−10 ± 1.126e−13
0.6
0.5
0.4
0.3
0.2
0.1

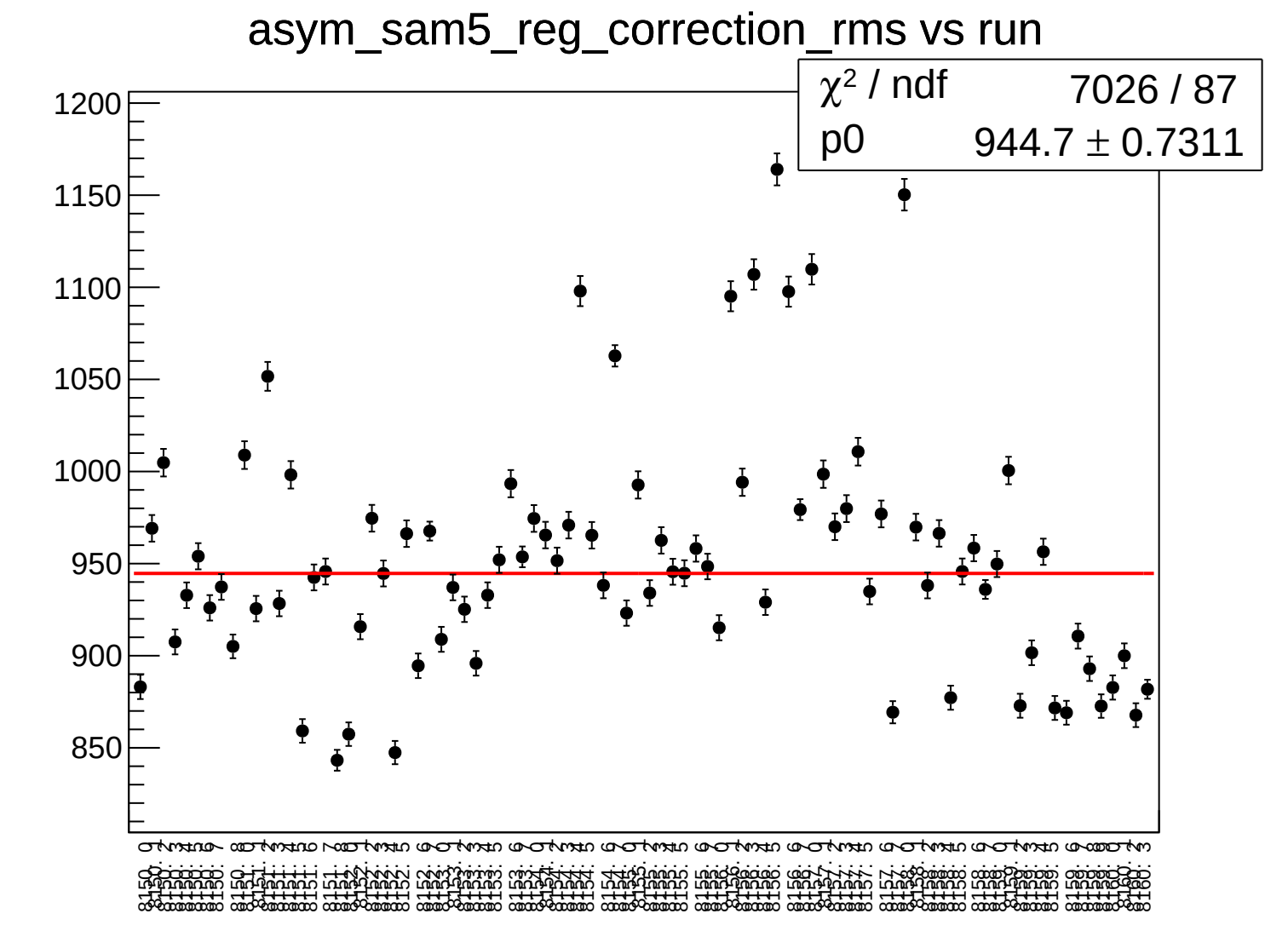

reg_asym_sam5_mean vs run
χ² / ndf 94.62 / 87
p0 222.9 ± 138.9
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 502.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

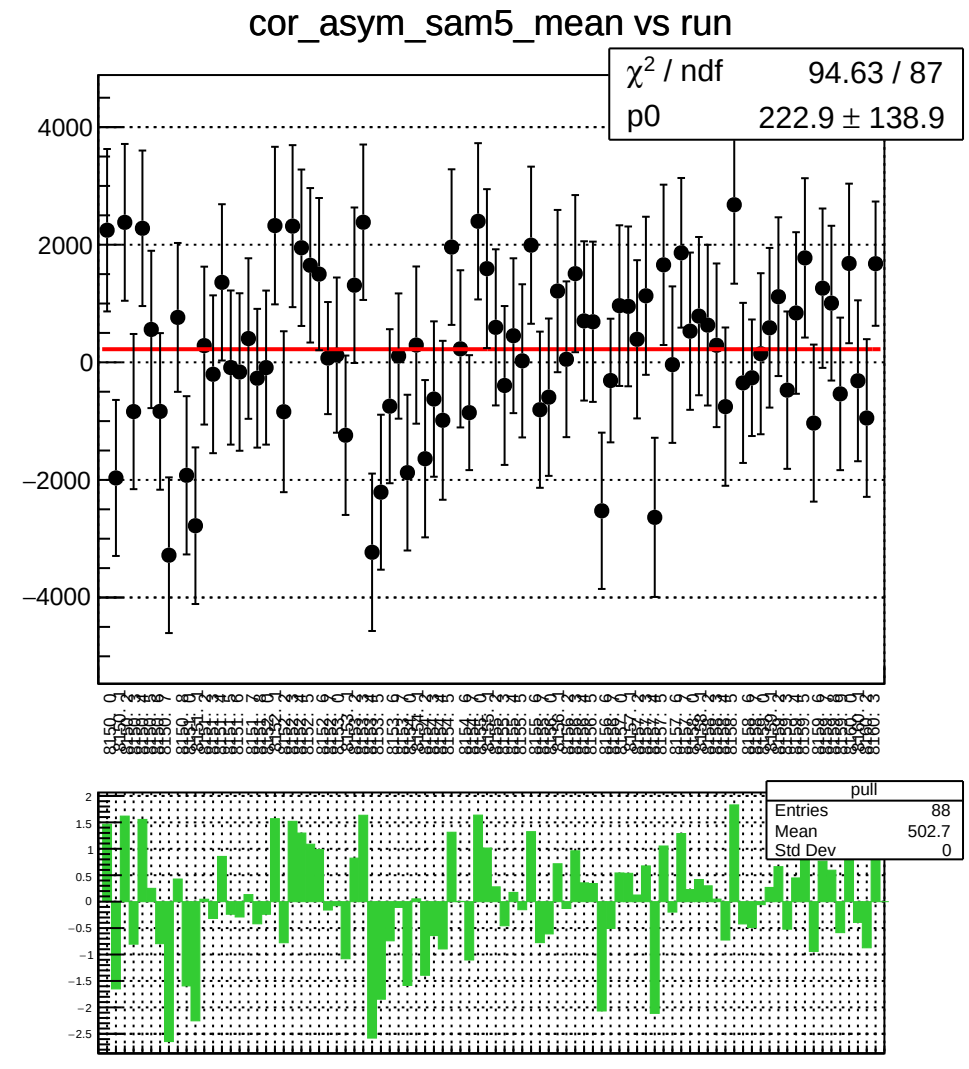

pull1D
Entries 88
Mean 0.006714
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

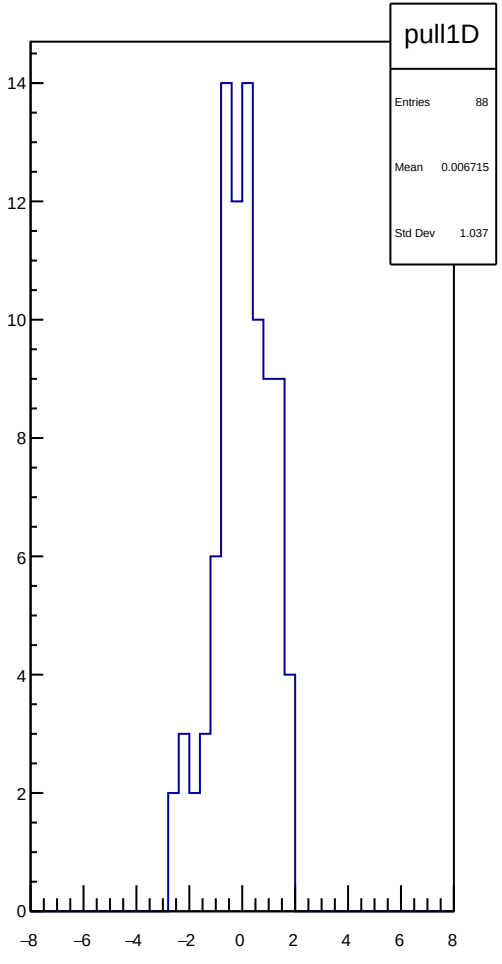

reg_asym_sam5_rms vs run
χ^2 / ndf 329.4 / 87
p0 127.2 ± 0.09823
134
132
130
128
126
124
122

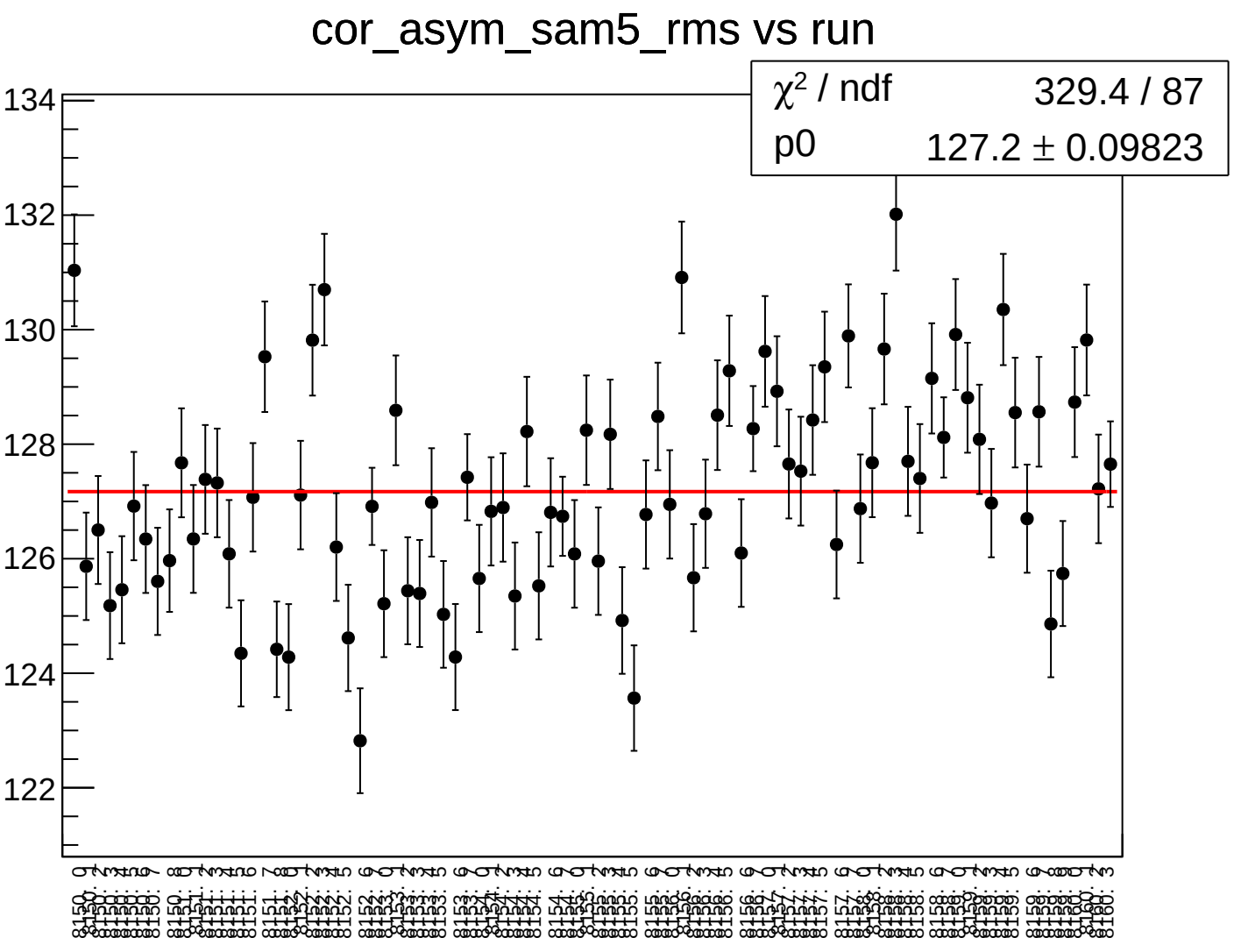

asym_sam5_reg_correction_mean vs run
χ² / ndf 77.18 / 87
p0 −441.1± 1034
pull
Entries 88
Mean −307.2
Std Dev 0

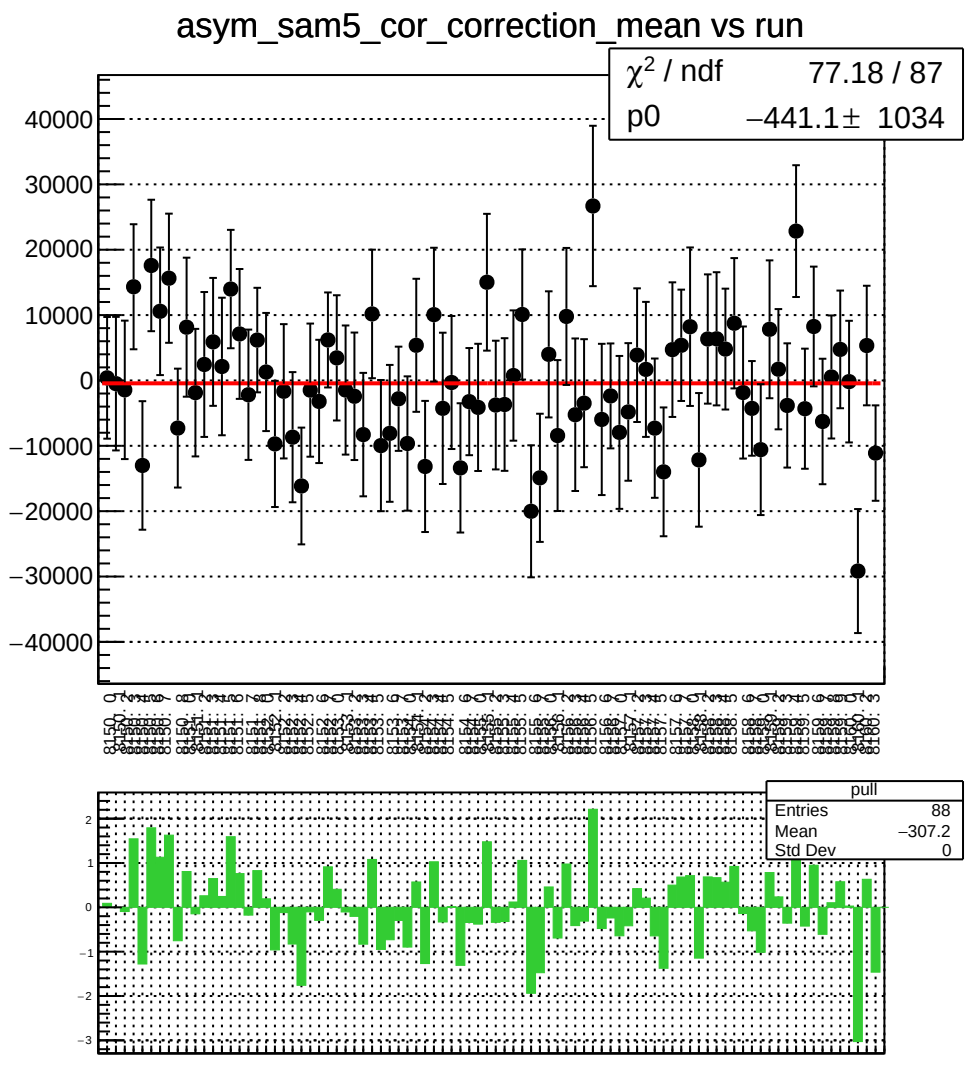

pull1D
Entries 88
Mean 0.007831
Std Dev 0.9365

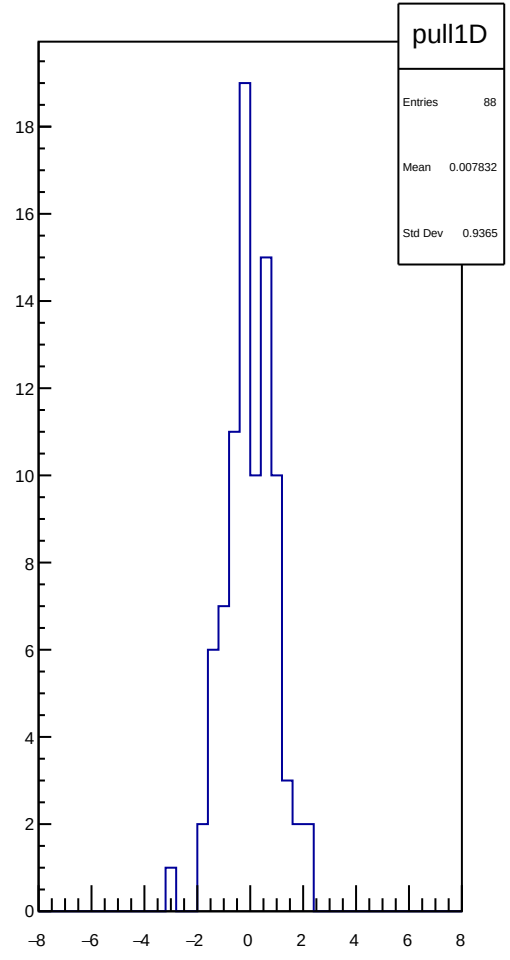

asym_sam5_reg_correction_rms vs run
χ² / ndf 7026 / 87
p0 944.7 ± 0.7311
1200
1150
1100
1050
1000
950
900
850

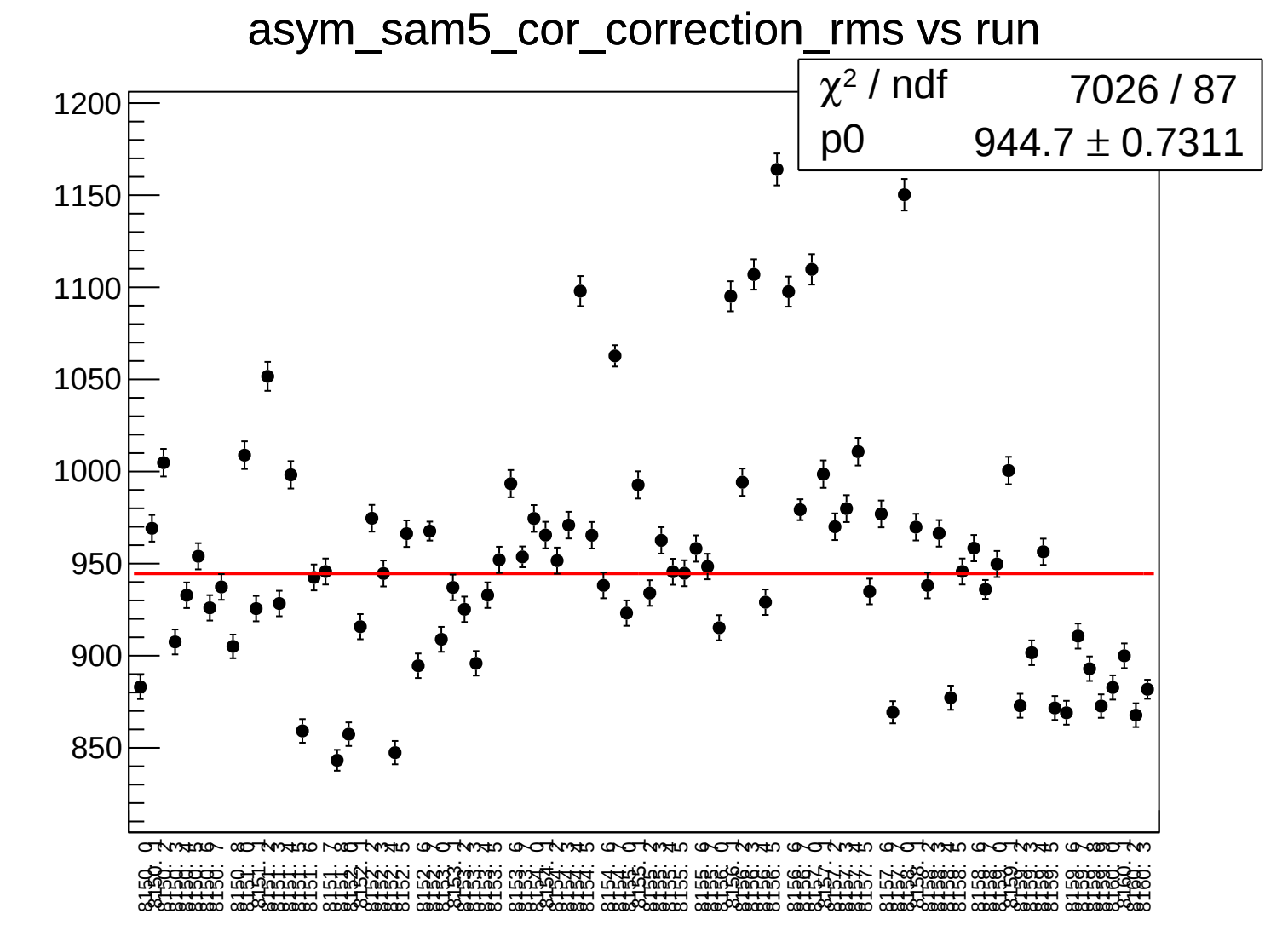

cor_asym_sam5_mean vs run
χ² / ndf 94.63 / 87
p0 222.9 ± 138.9
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 502.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

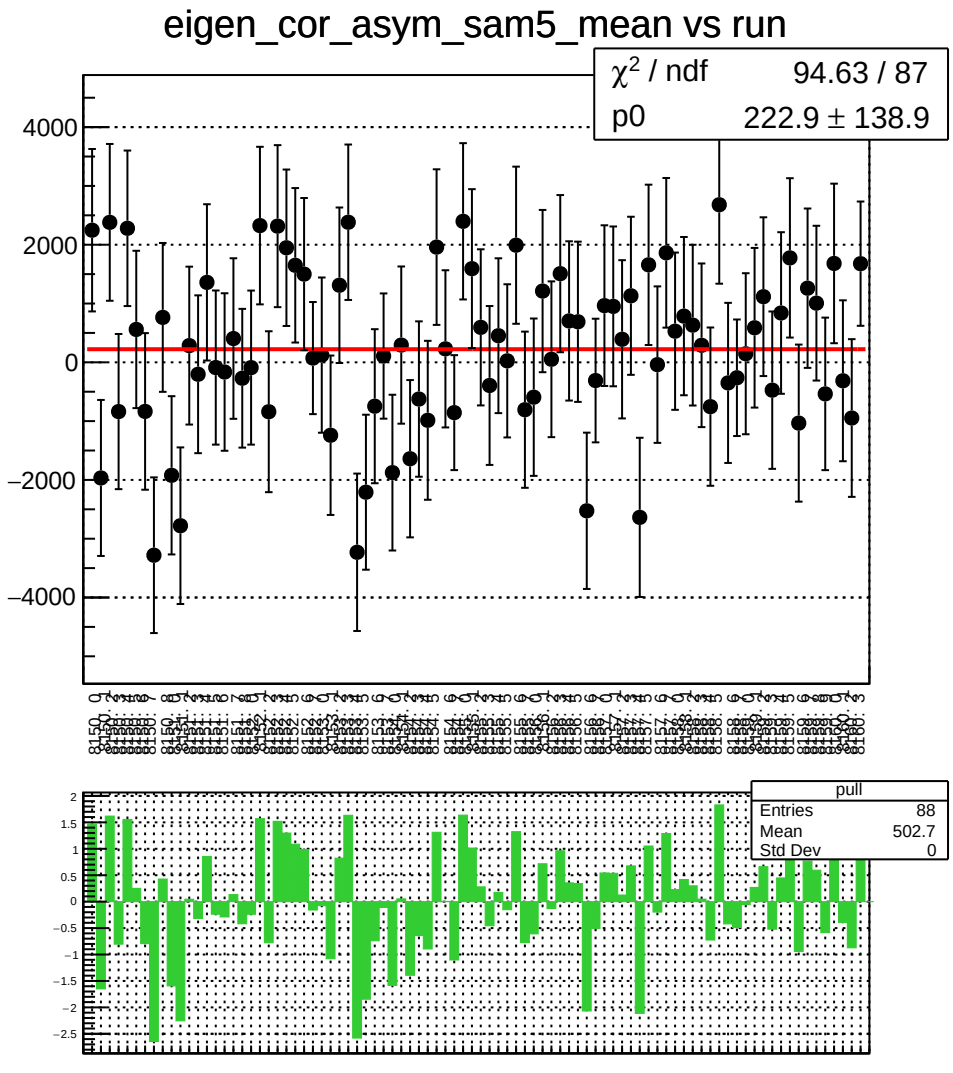

pull1D
Entries 88
Mean 0.006715
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

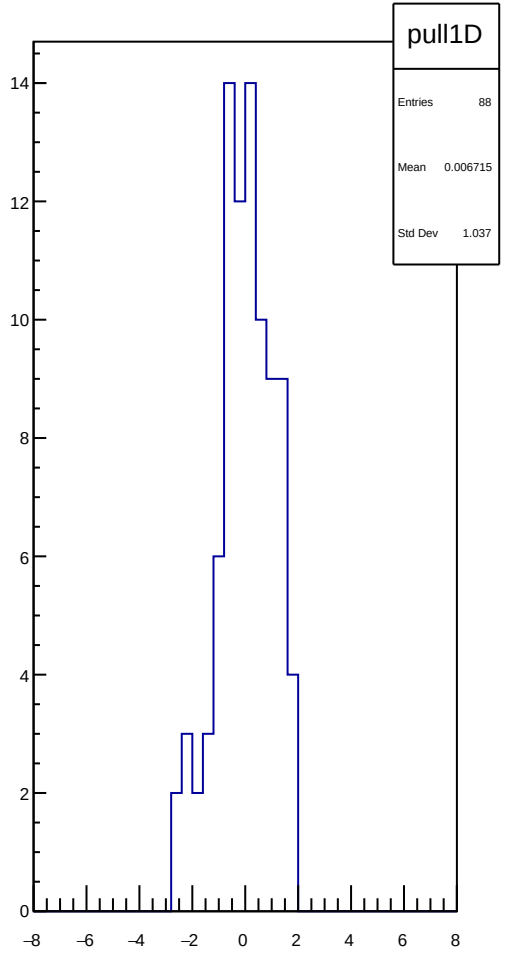

cor_asym_sam5_rms vs run
χ^2 / ndf 329.4 / 87
p0 127.2 ± 0.09823
134
132
130
128
126
124
122

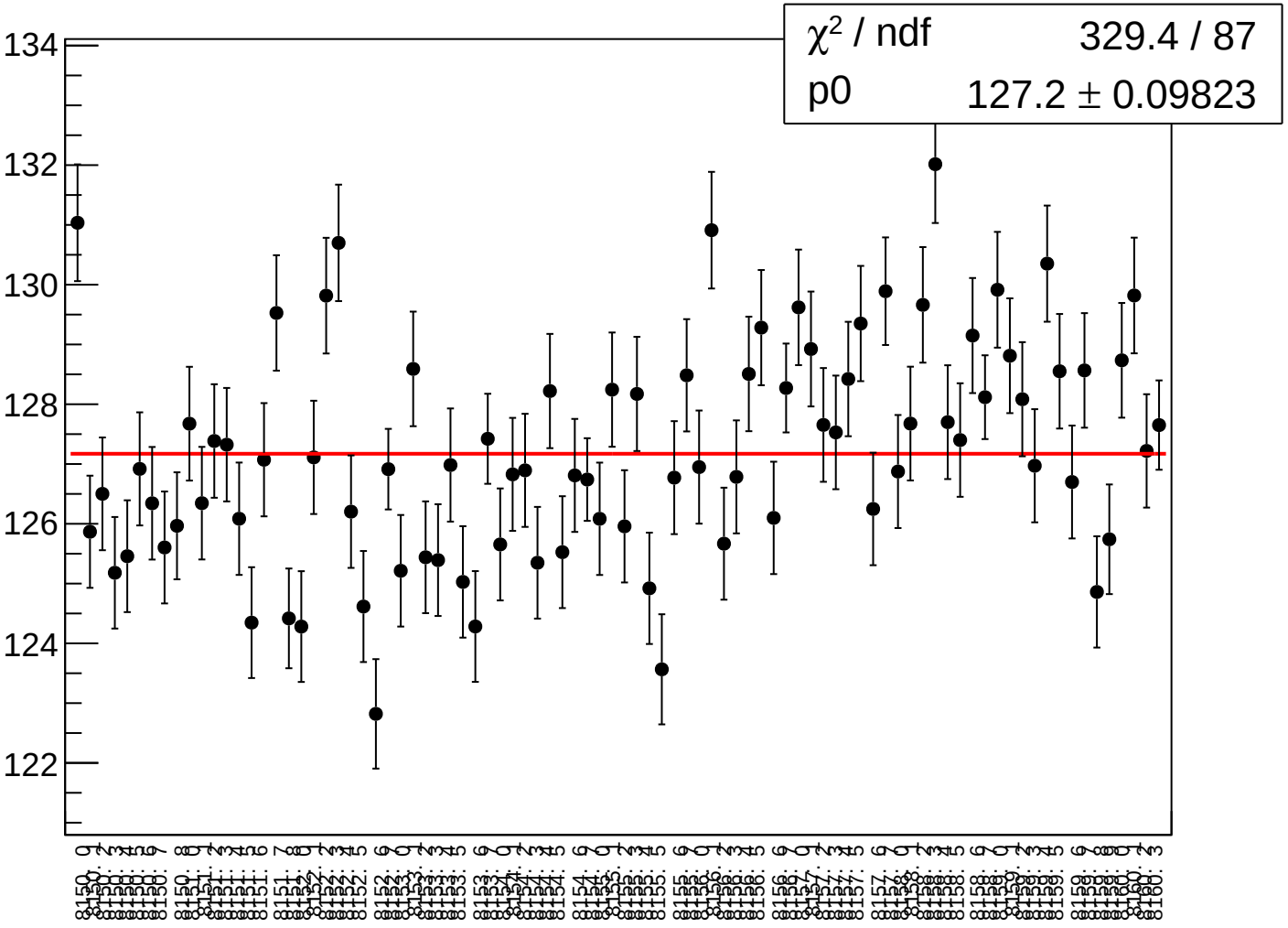

asym_sam5_cor_correction_mean vs run
χ² / ndf 77.18 / 87
p0 −441.1± 1034
pull
Entries 88
Mean −307.2
Std Dev 0

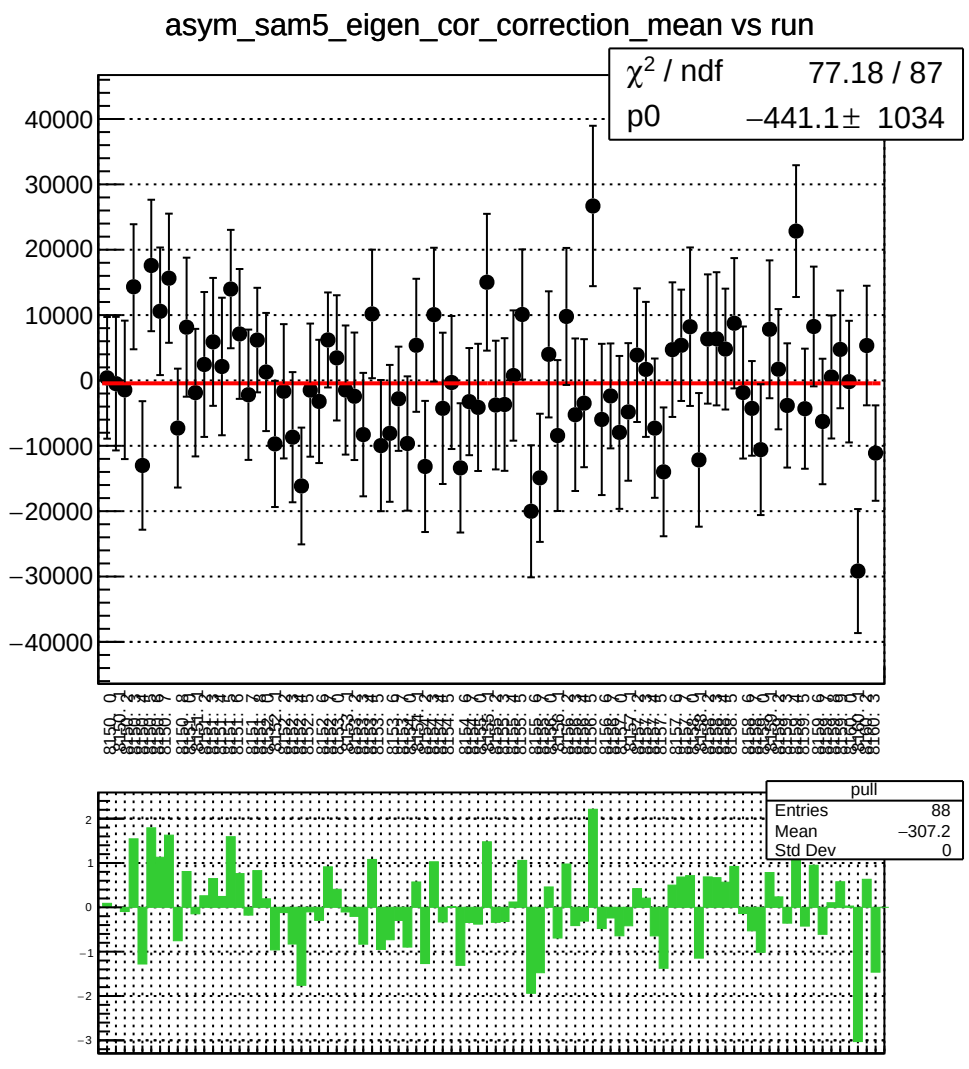

pull1D
Entries 88
Mean 0.007832
Std Dev 0.9365

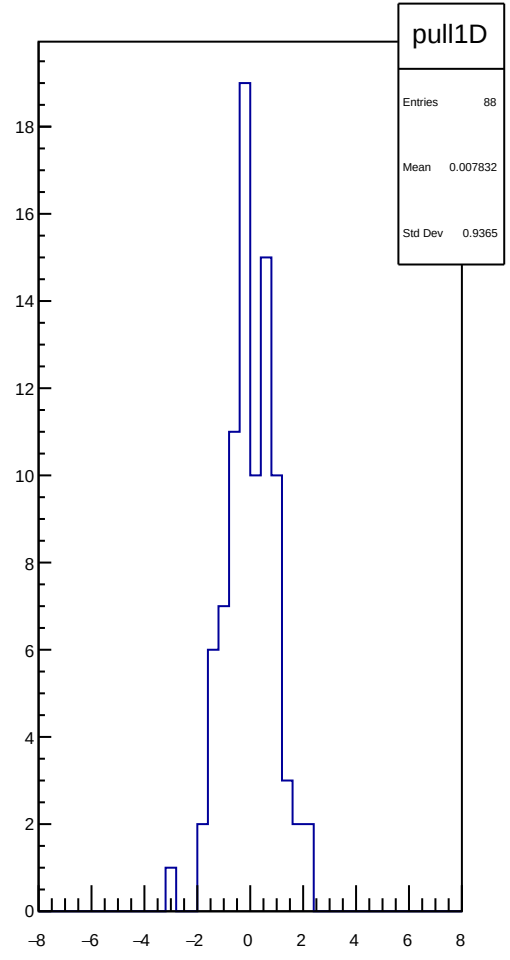

asym_sam5_cor_correction_rms vs run
χ² / ndf 7026 / 87
p0 944.7 ± 0.7311
1200
1150
1100
1050
1000
950
900
850

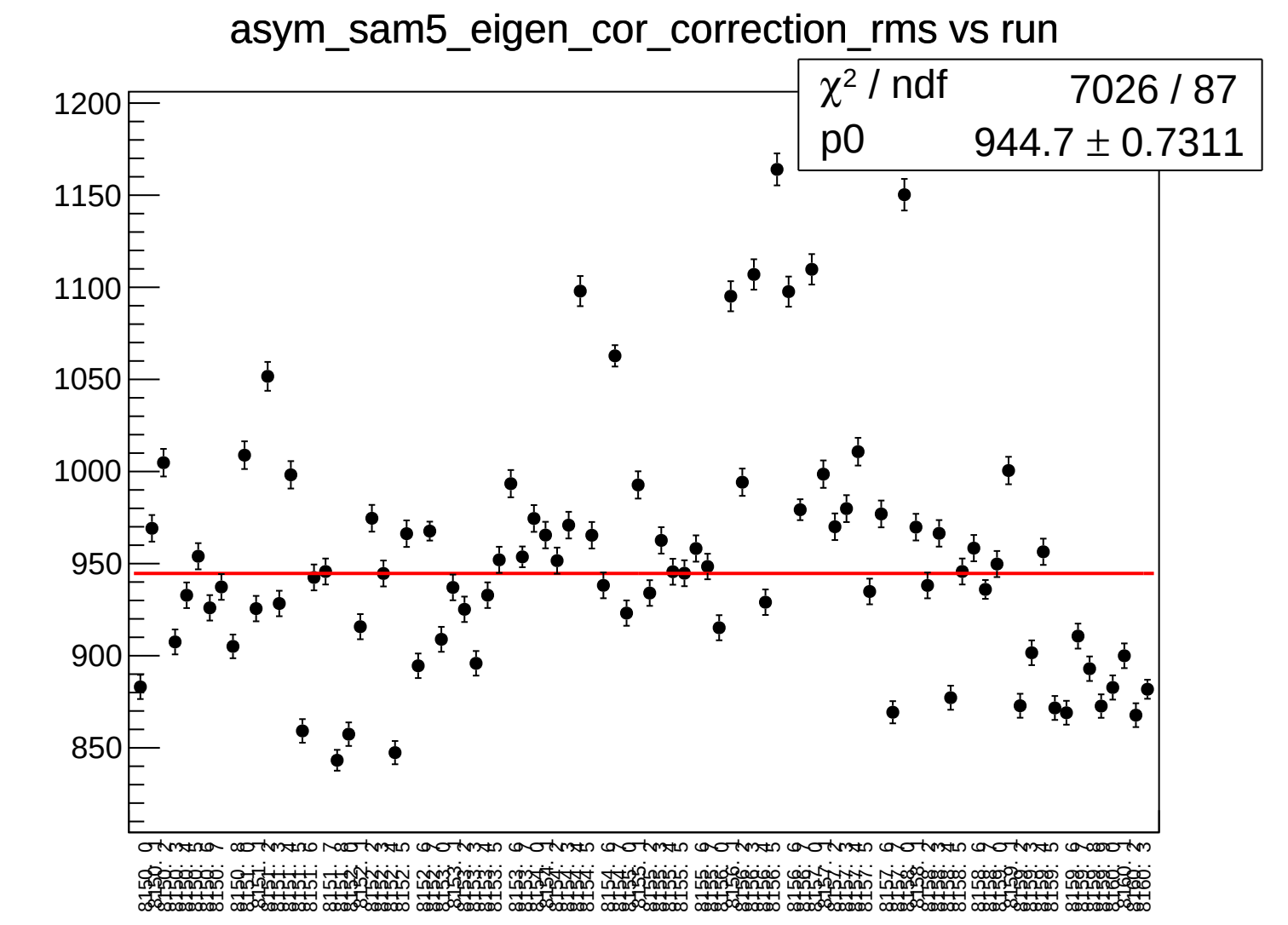

eigen_cor_asym_sam5_mean vs run
χ² / ndf 94.63 / 87
p0 222.9 ± 138.9
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 502.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

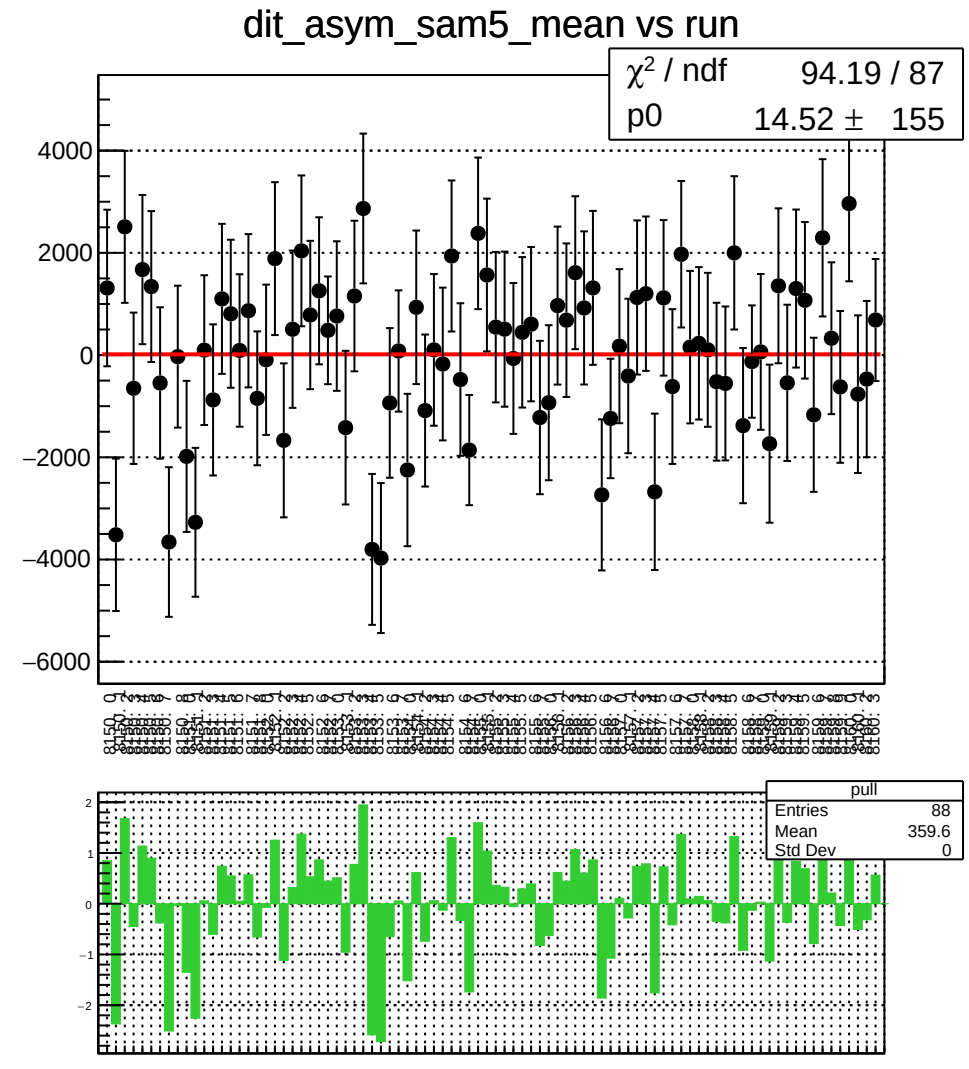

pull1D
Entries 88
Mean 0.006715
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

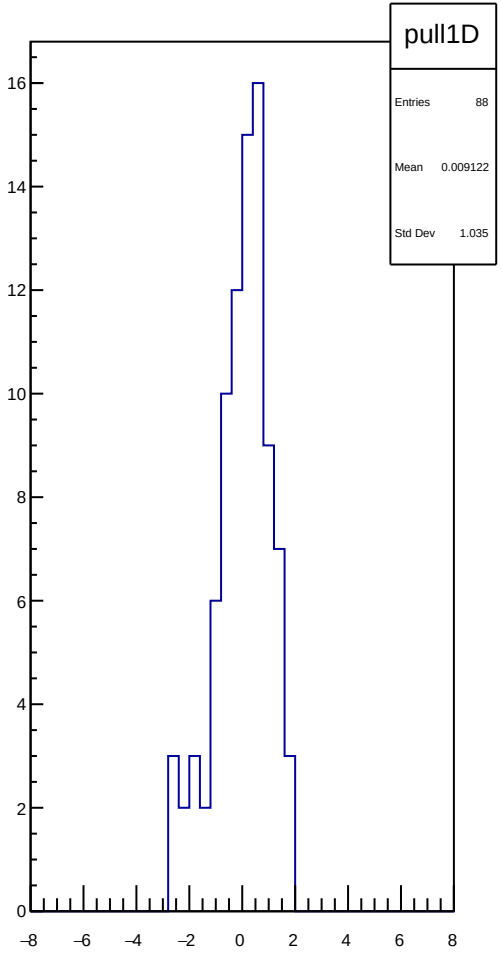

eigen_cor_asym_sam5_rms vs run
χ² / ndf 329.4 / 87
p0 127.2 ± 0.09823
134
132
130
128
126
124
122

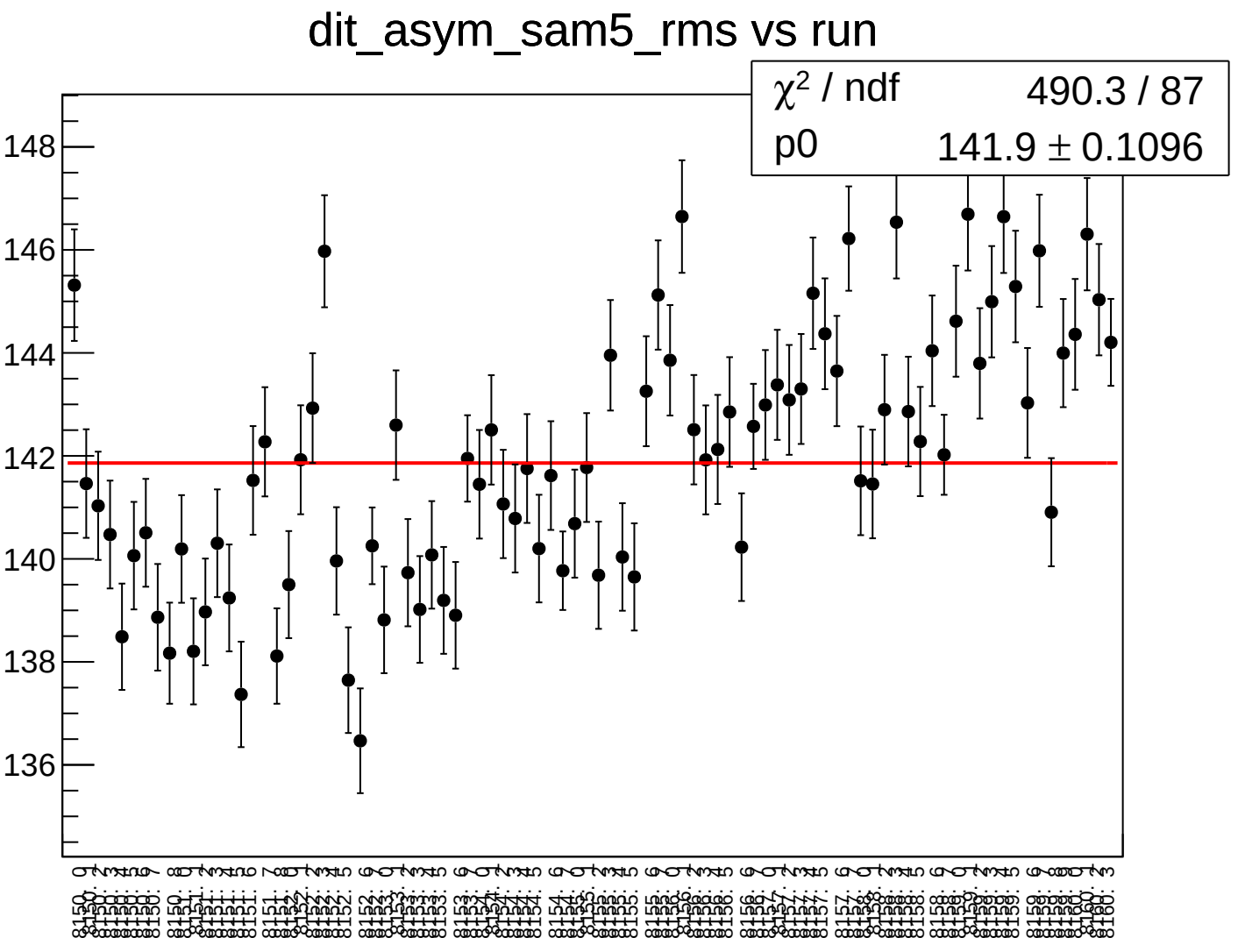

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 77.18 / 87
p0 −441.1± 1034
pull
Entries 88
Mean −307.2
Std Dev 0

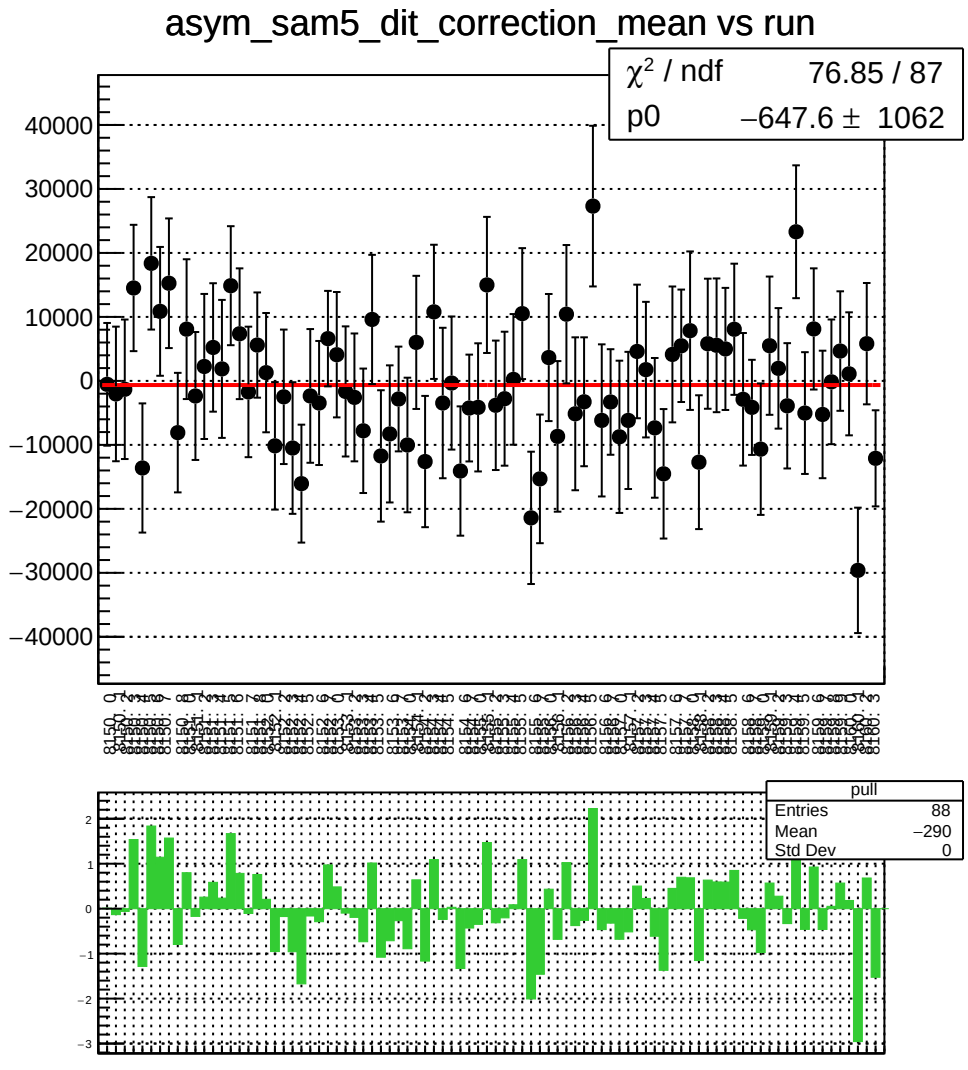

pull1D
Entries 88
Mean 0.007832
Std Dev 0.9365

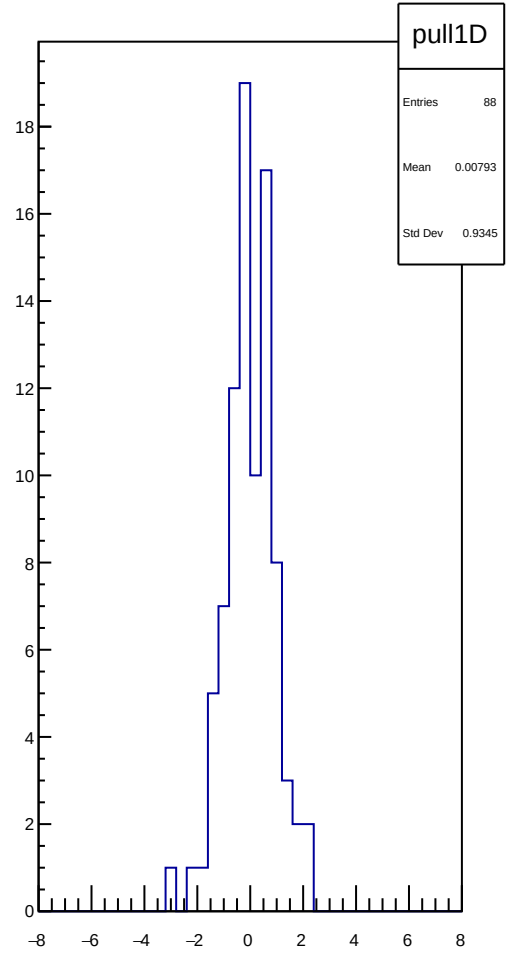

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 7026 / 87
p0 944.7 ± 0.7311
1200
1150
1100
1050
1000
950
900
850

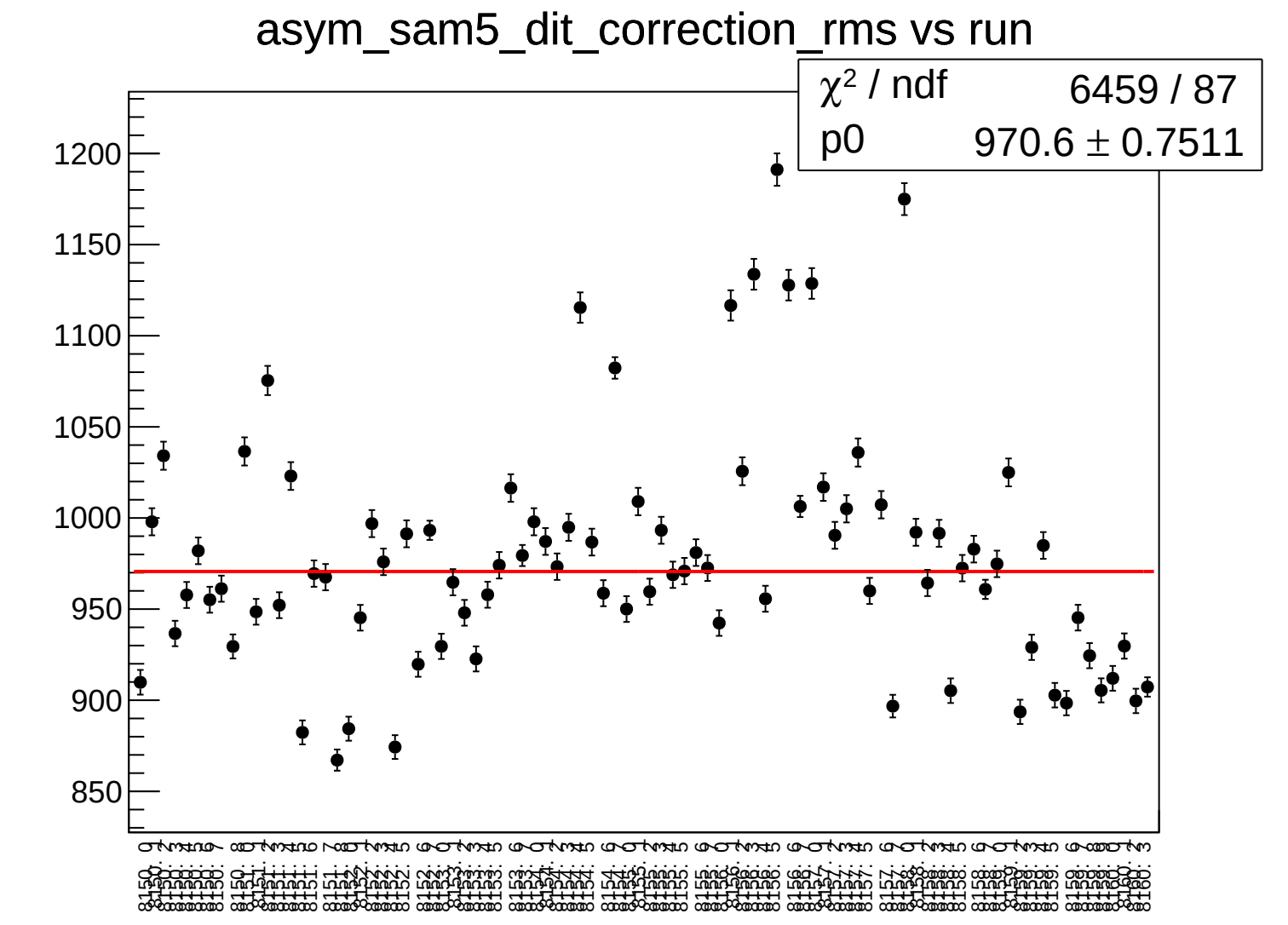

dit_asym_sam5_mean vs run
χ² / ndf 94.19 / 87
p0 14.52 ± 155
pull
Entries 88
Mean 359.6
Std Dev 0

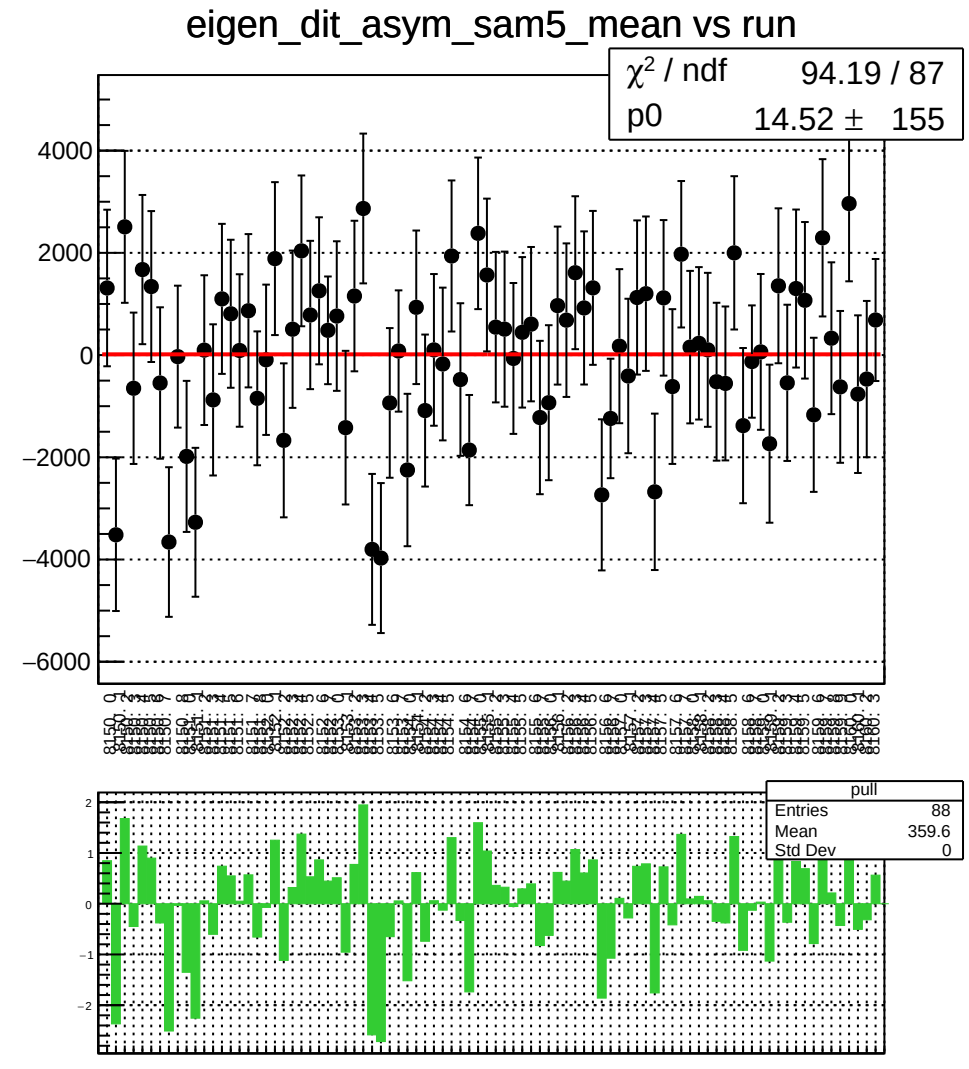

pull1D
Entries 88
Mean 0.009122
Std Dev 1.035

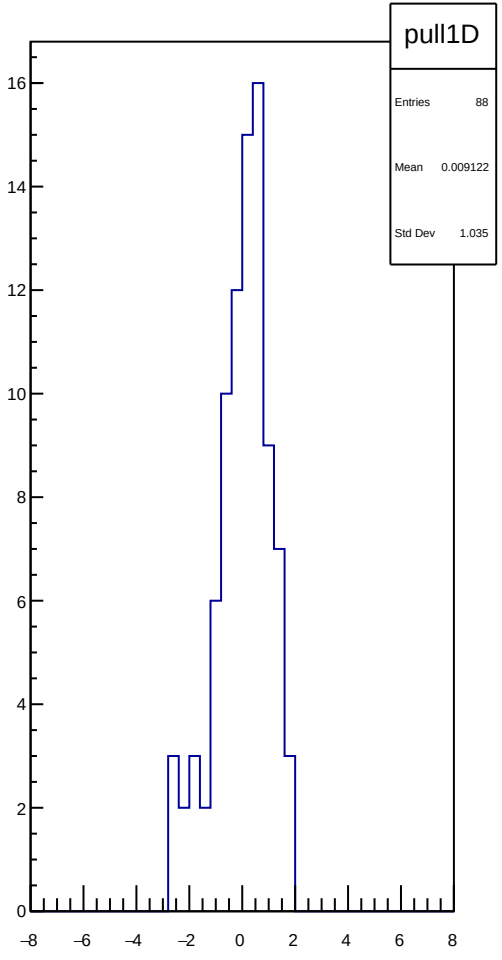

dit_asym_sam5_rms vs run
χ² / ndf 490.3 / 87
p0 141.9 ± 0.1096
148
146
144
142
140
138
136

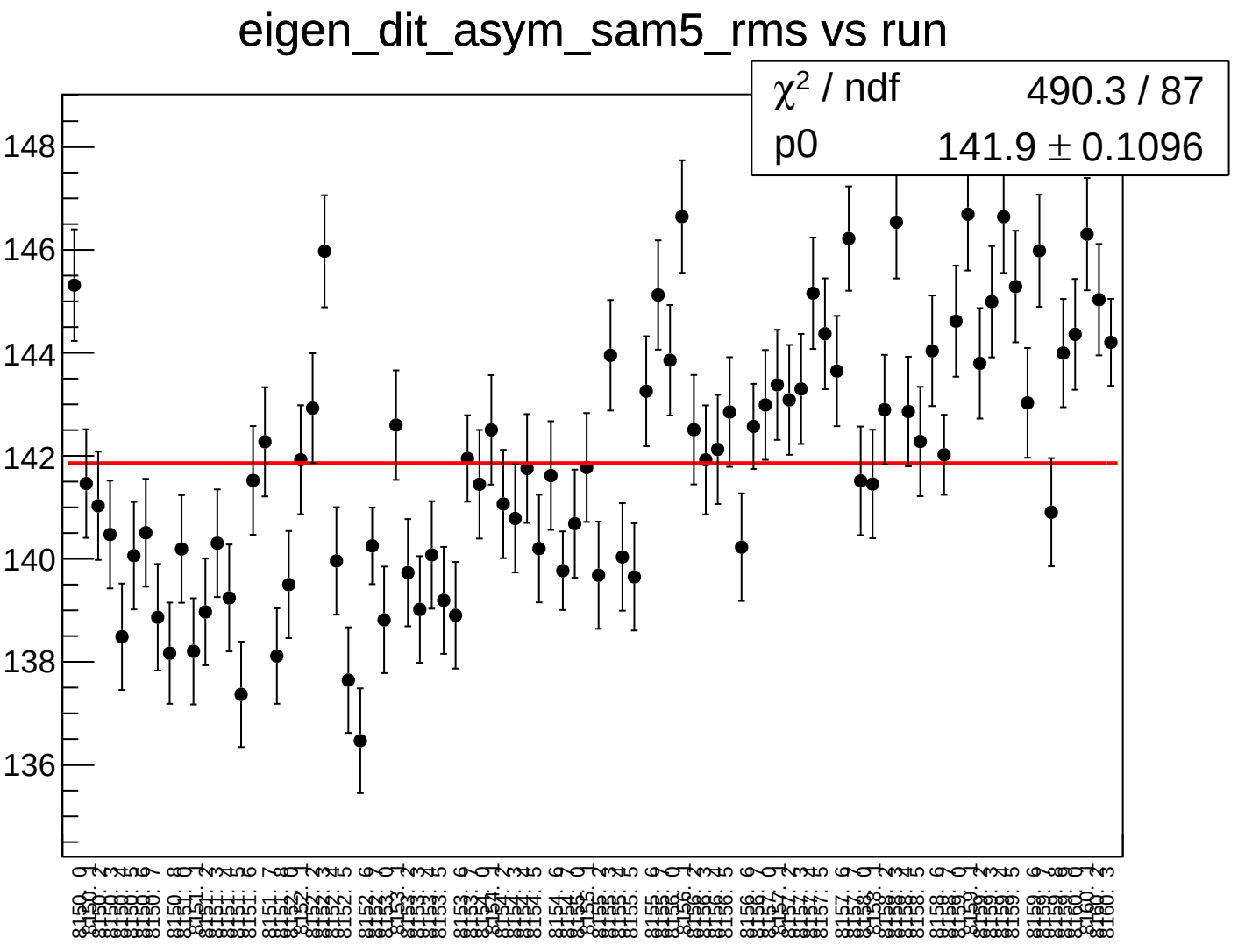

asym_sam5_dit_correction_mean vs run
χ² / ndf 76.85 / 87
p0 −647.6 ± 1062
pull
Entries 88
Mean −290
Std Dev 0

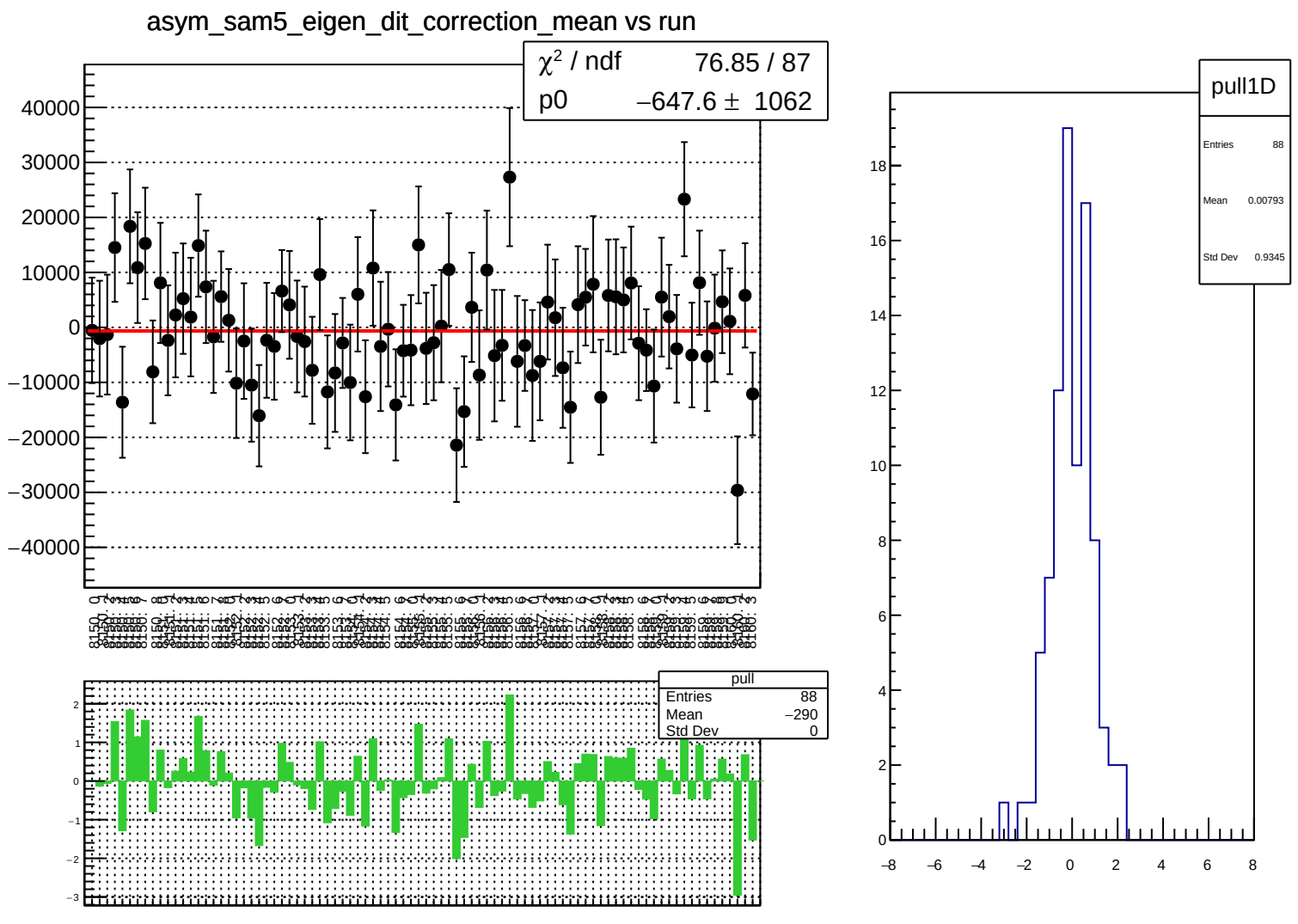

pull1D
Entries 88
Mean 0.00793
Std Dev 0.9345

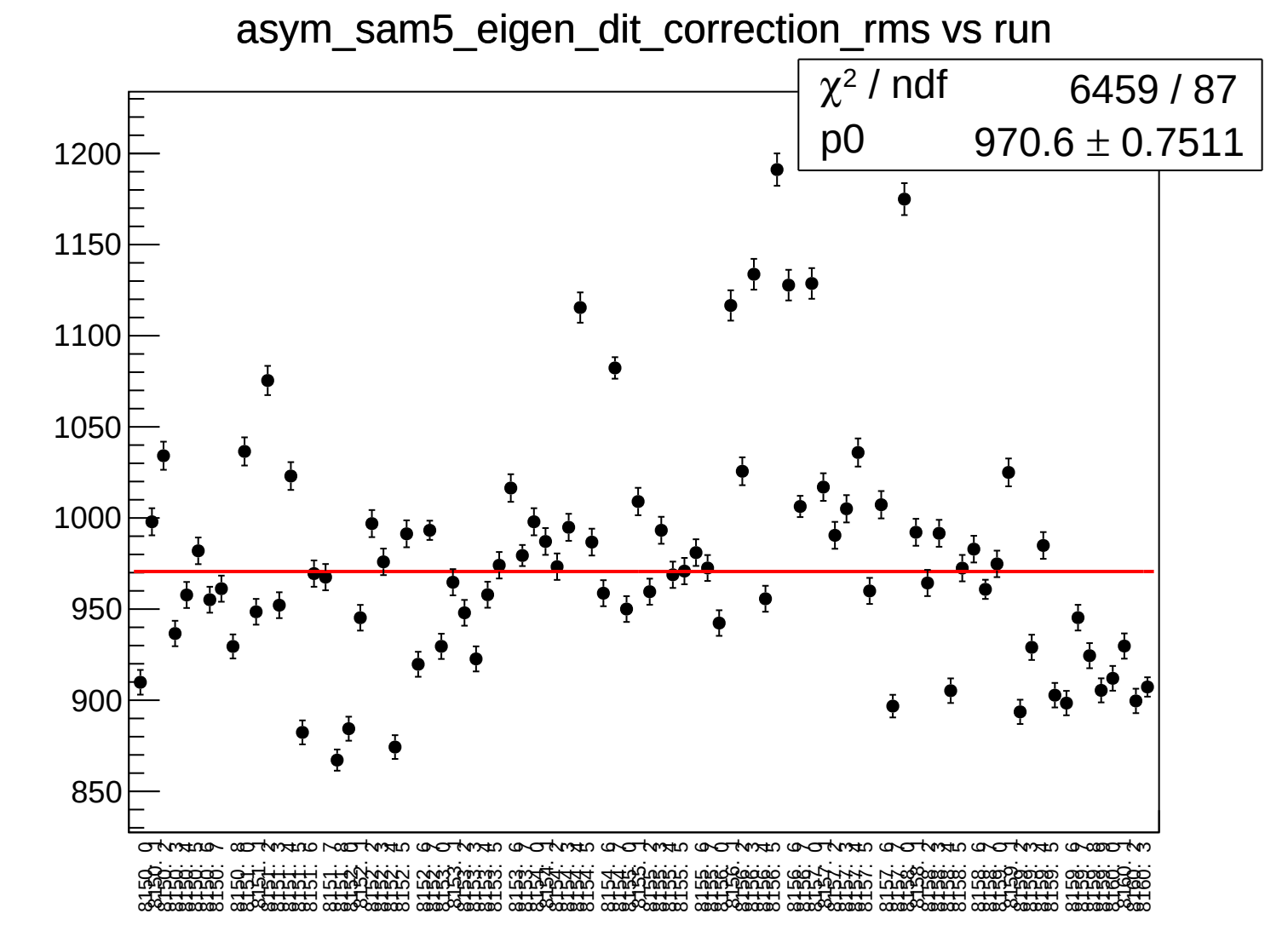

asym_sam5_dit_correction_rms vs run
χ² / ndf 6459 / 87
p0 970.6 ± 0.7511
1200
1150
1100
1050
1000
950
900
850

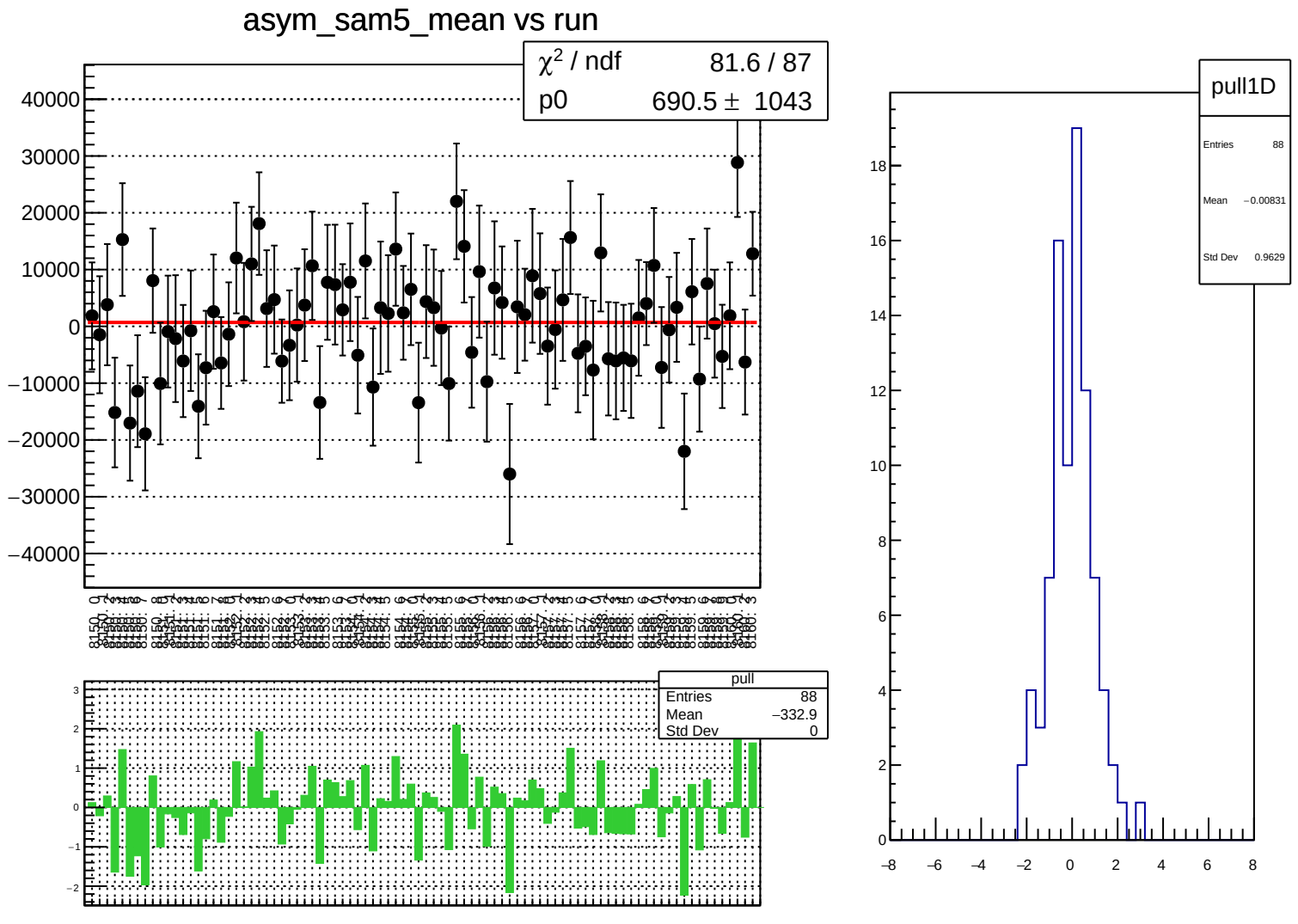

eigen_dit_asym_sam5_mean vs run
χ² / ndf 94.19 / 87
p0 14.52 ± 155
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 359.6
Std Dev 0
2
1
0
−1
−2

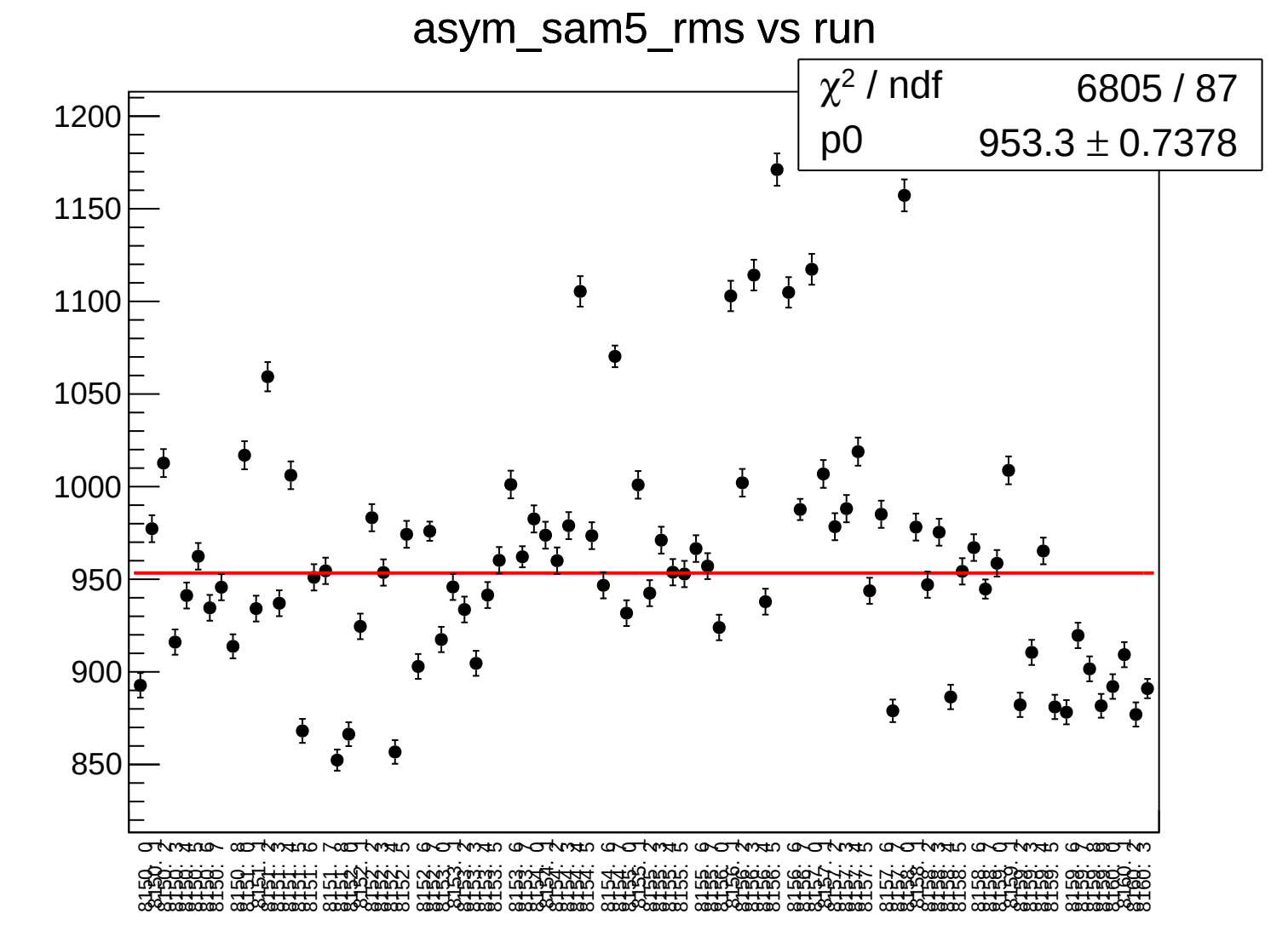

pull1D
Entries 88
Mean 0.009122
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

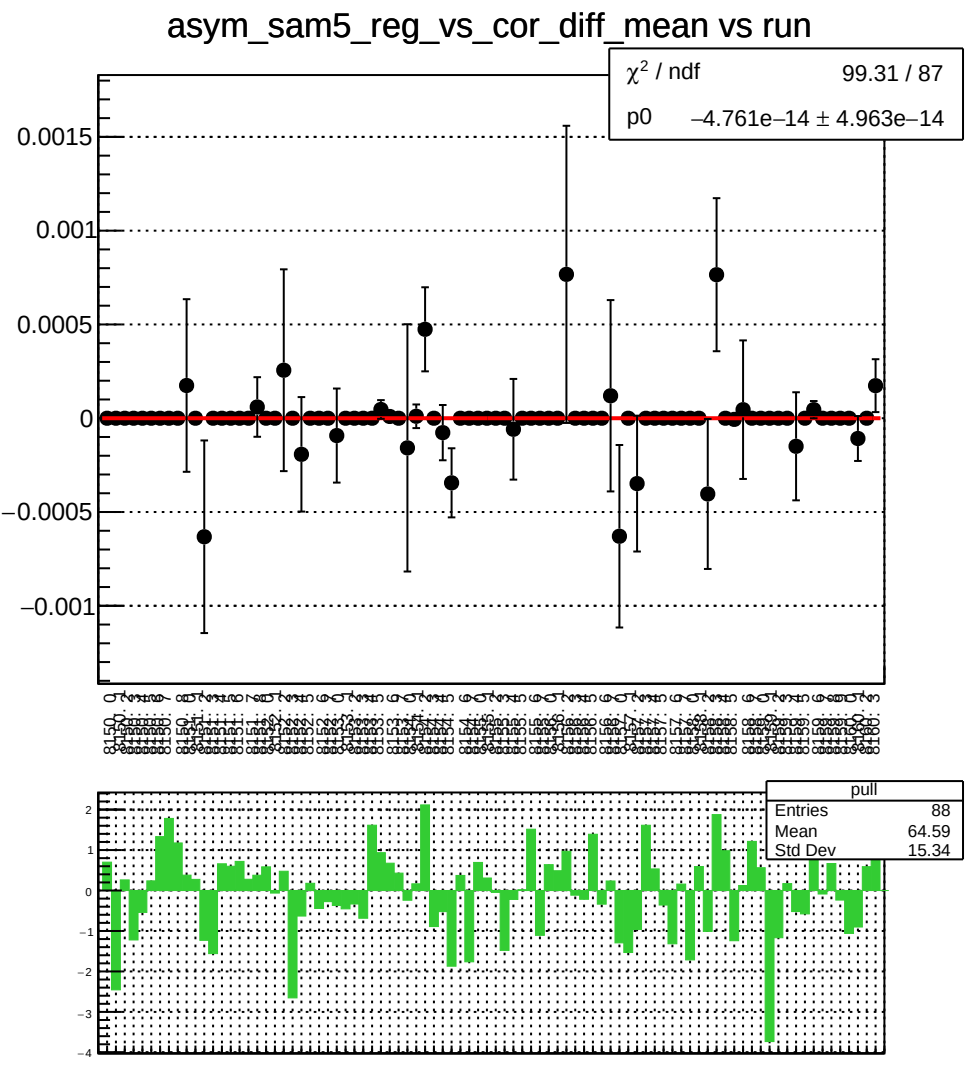

eigen_dit_asym_sam5_rms vs run
χ² / ndf 490.3 / 87
p0 141.9 ± 0.1096
148
146
144
142
140
138
136

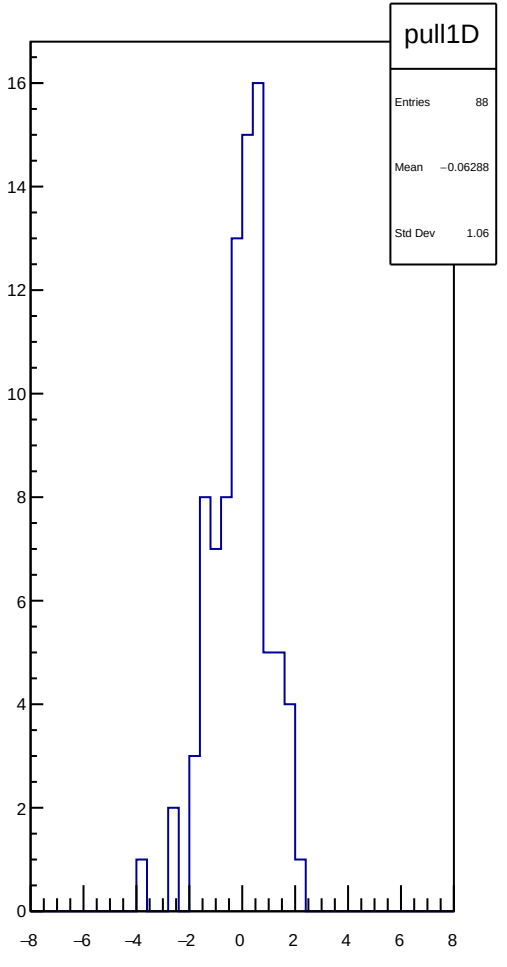

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 76.85 / 87
p0 −647.6 ± 1062
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −290
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.00793
Std Dev 0.9345
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

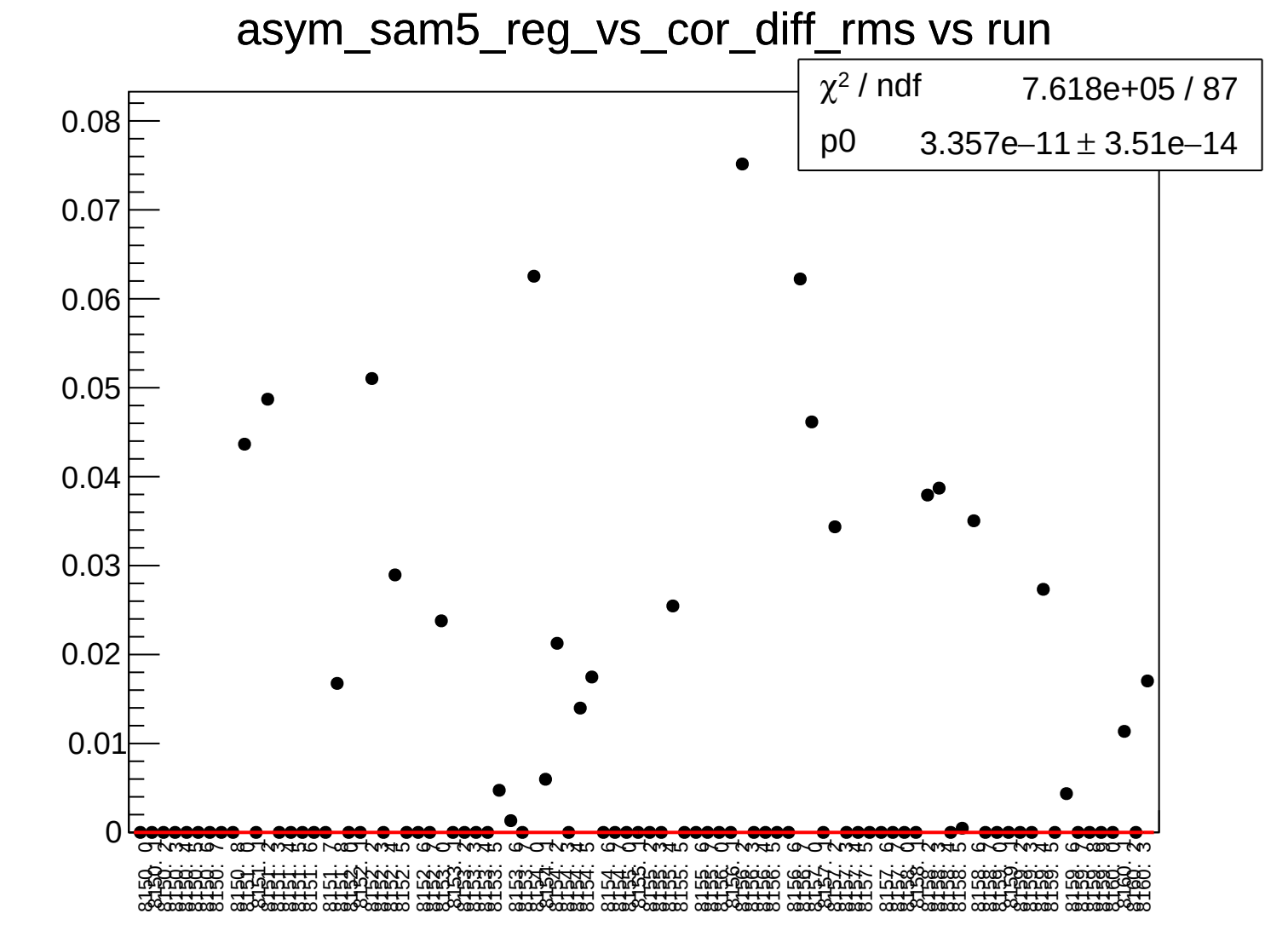

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 6459 / 87
p0 970.6 ± 0.7511
1200
1150
1100
1050
1000
950
900
850

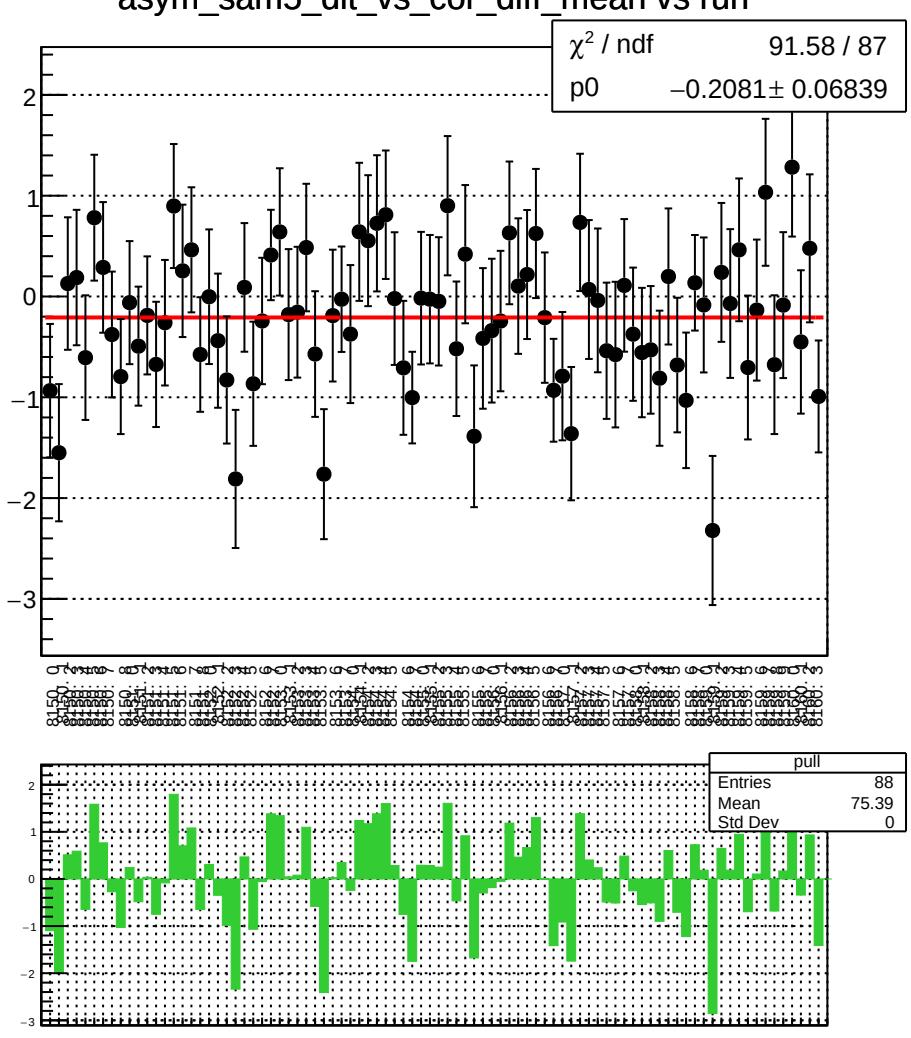

asym_sam5_mean vs run
χ² / ndf 81.6 / 87
p0 690.5 ± 1043
pull
Entries 88
Mean −332.9
Std Dev 0
pull1D
Entries 88
Mean −0.00831
Std Dev 0.9629

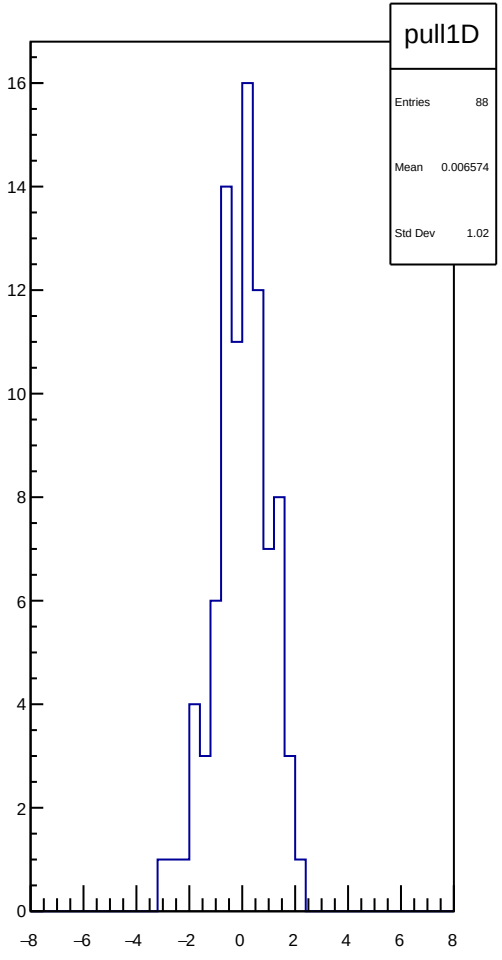

asym_sam5_rms vs run
χ² / ndf 6805 / 87
p0 953.3 ± 0.7378
1200
1150
1100
1050
1000
950
900
850

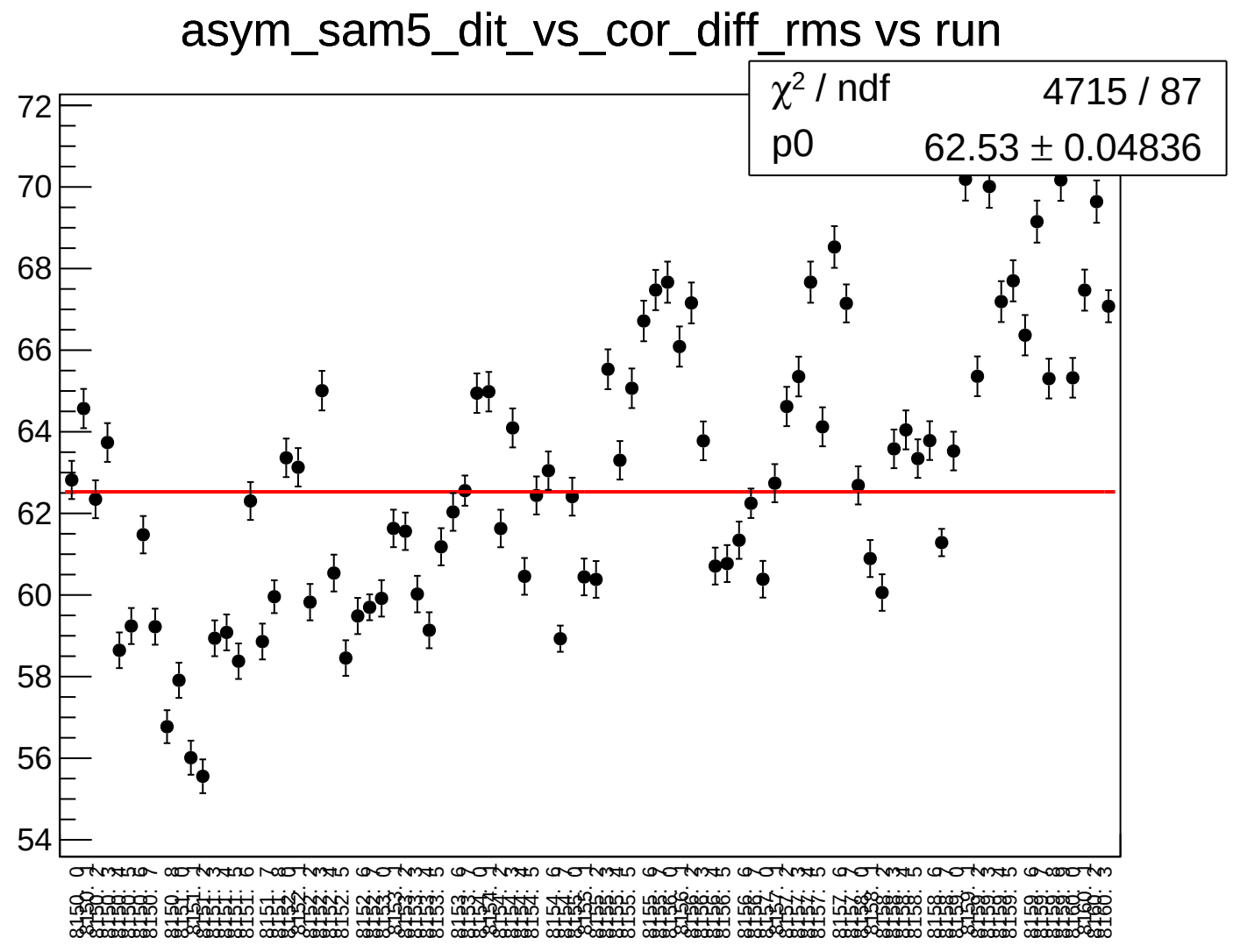

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 99.31 / 87
p0 −4.761e−14 ± 4.963e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 64.59
Std Dev 15.34
2
1
0
−1
−2
−3
−4

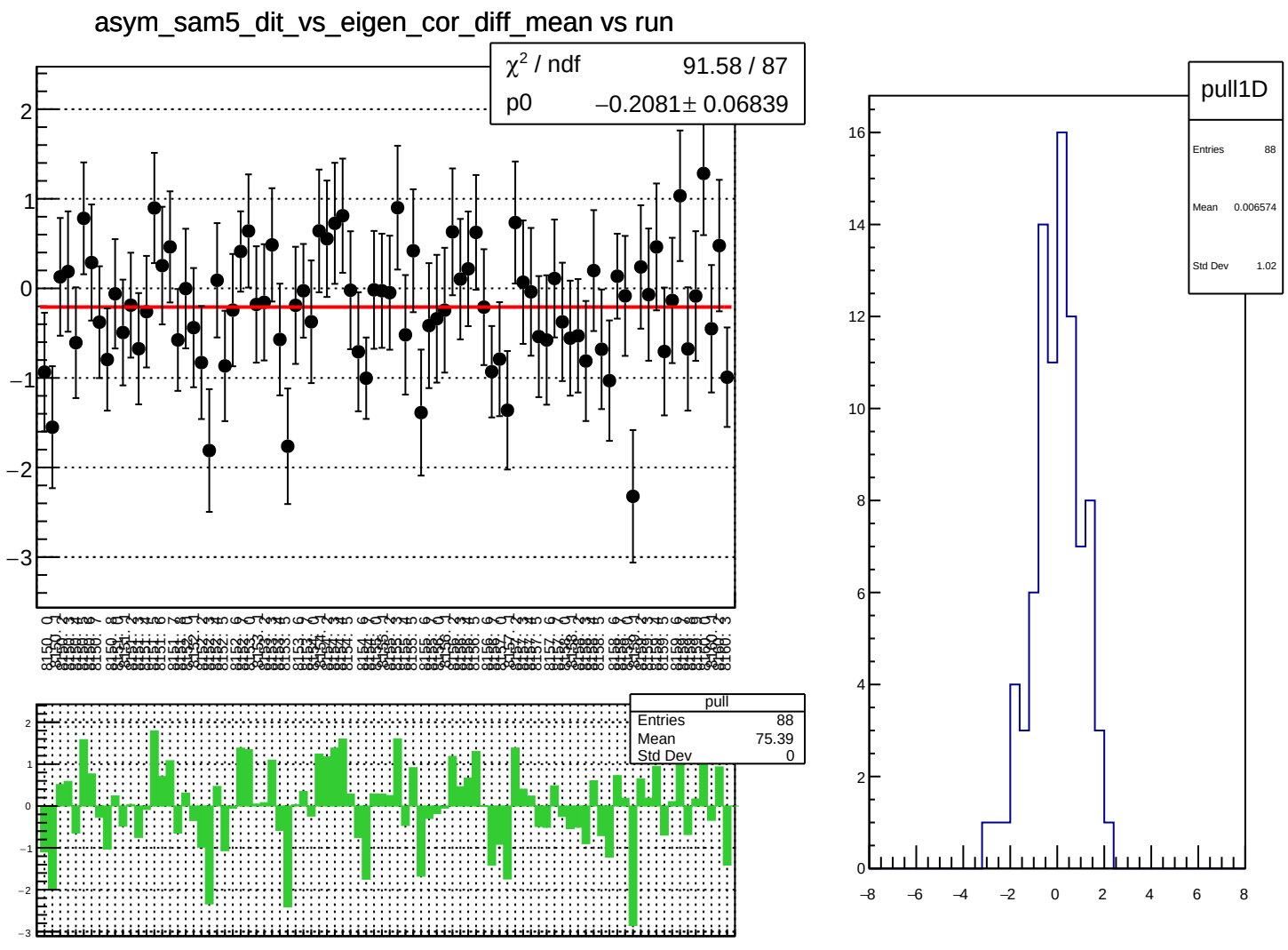

pull1D
Entries 88
Mean −0.06288
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

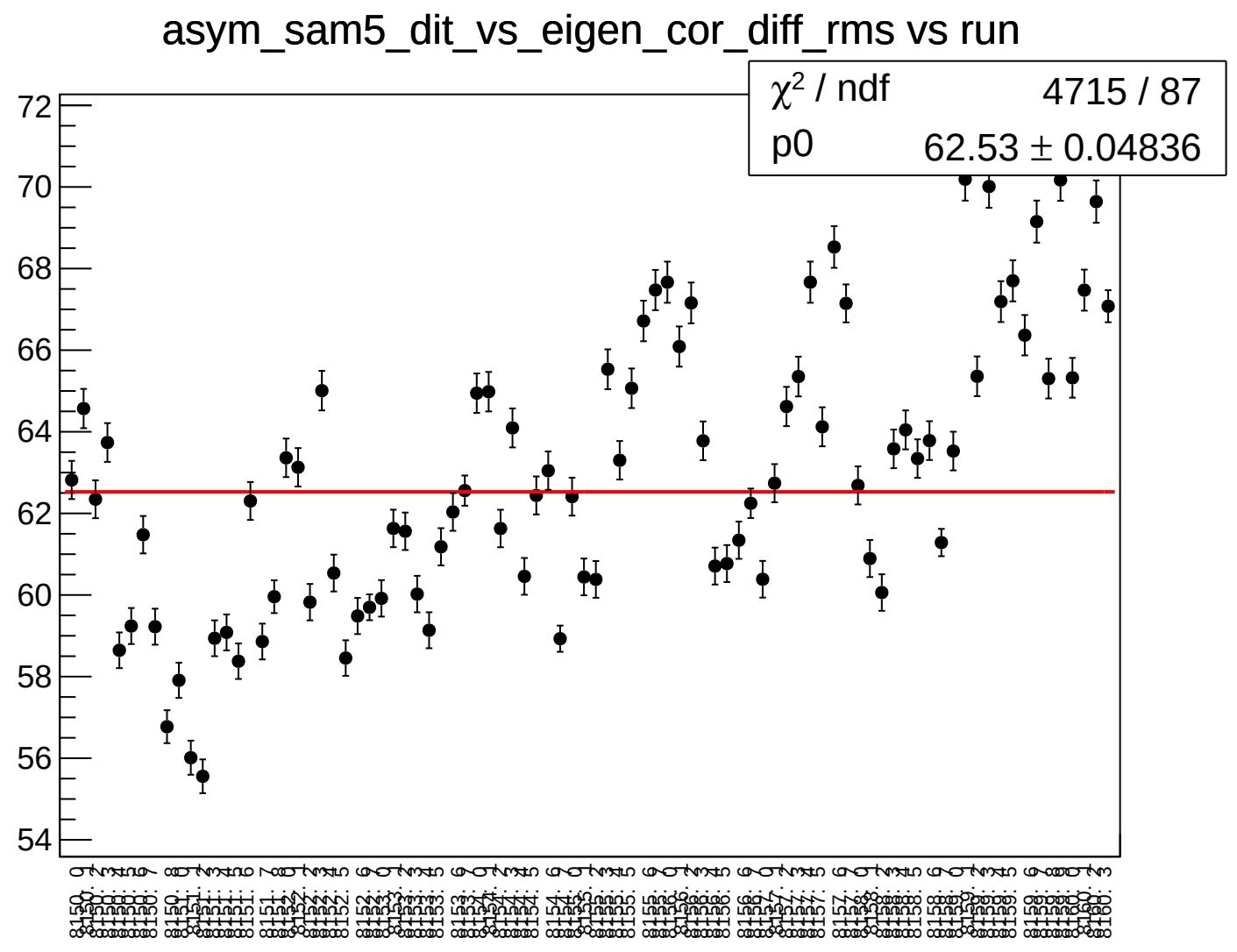

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 7.618e+05 / 87
p0 3.357e−11 ± 3.51e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

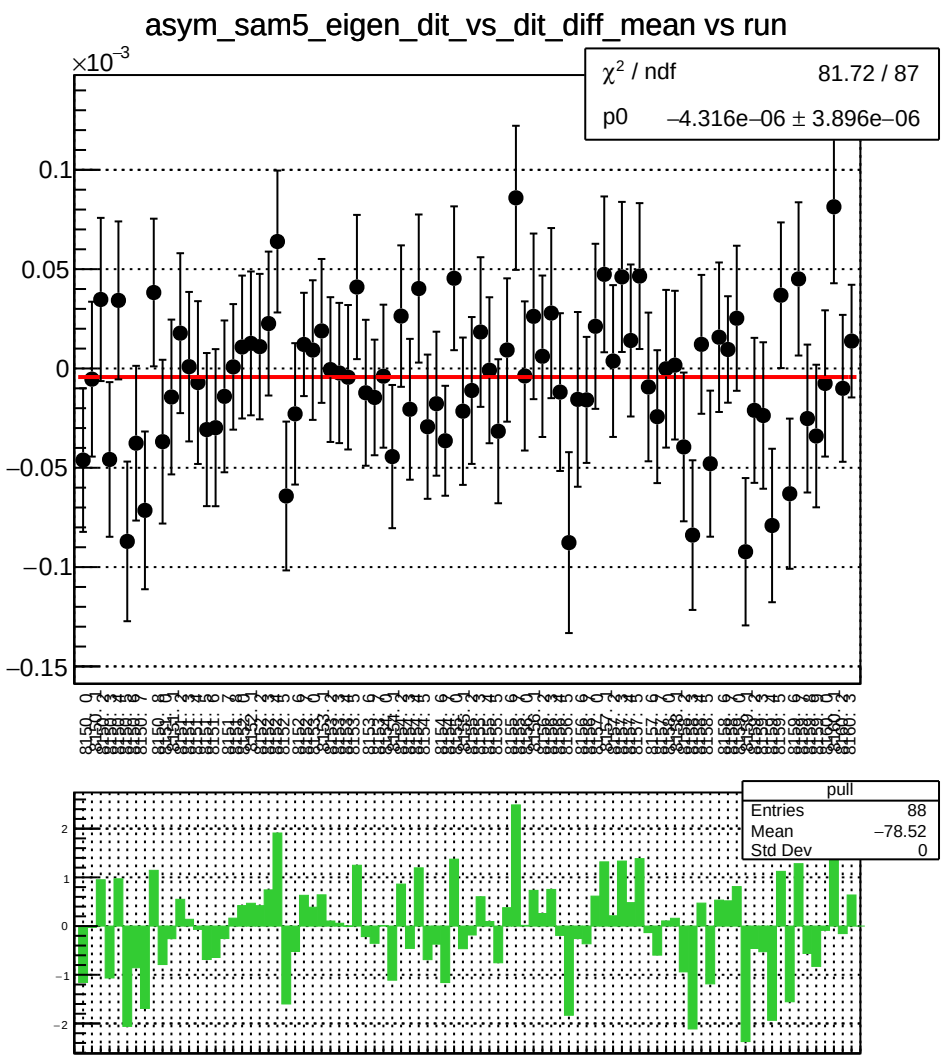

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 91.58 / 87
p0 −0.2081± 0.06839
pull
Entries 88
Mean 75.39
Std Dev 0

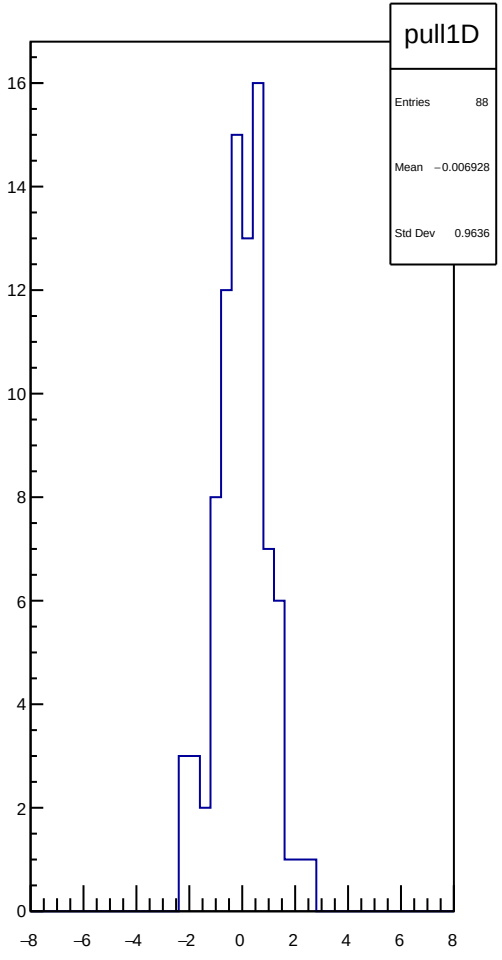

pull1D
Entries 88
Mean 0.006574
Std Dev 1.02

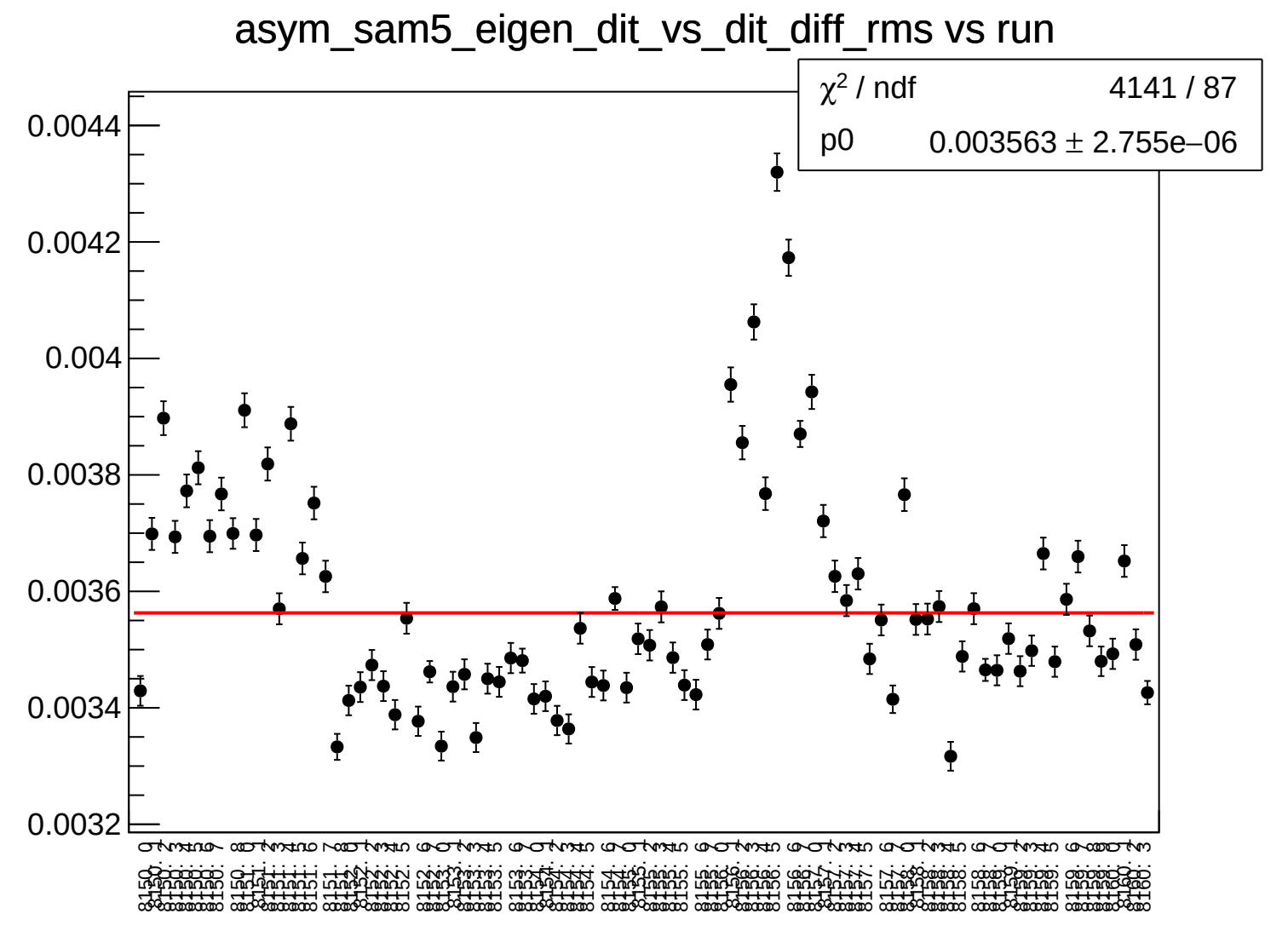

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 4715 / 87
p0 62.53 ± 0.04836
72
70
68
66
64
62
60
58
56
54

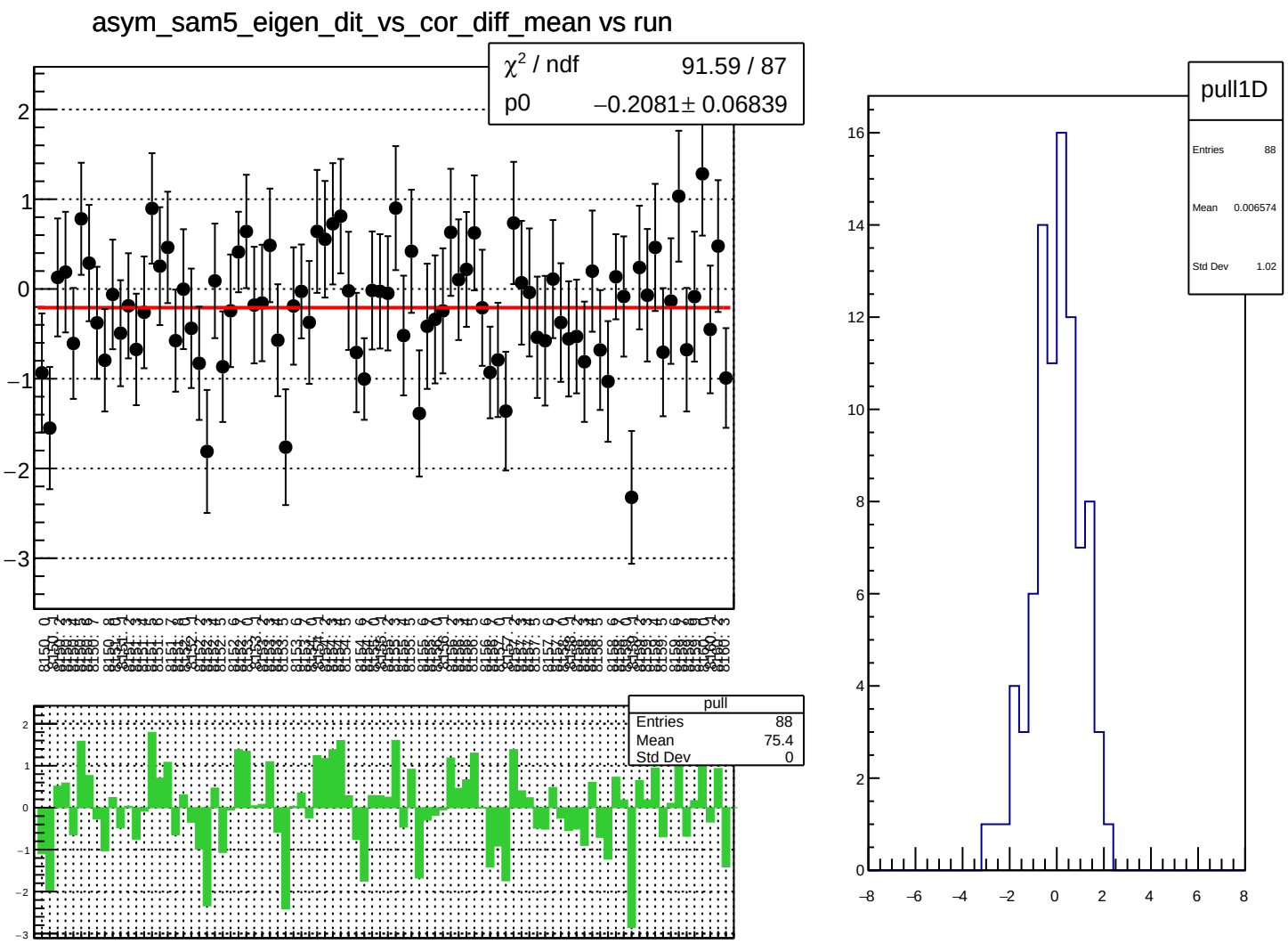

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.58 / 87
p0 −0.2081± 0.06839
pull
Entries 88
Mean 75.39
Std Dev 0
pull1D
Entries 88
Mean 0.006574
Std Dev 1.02

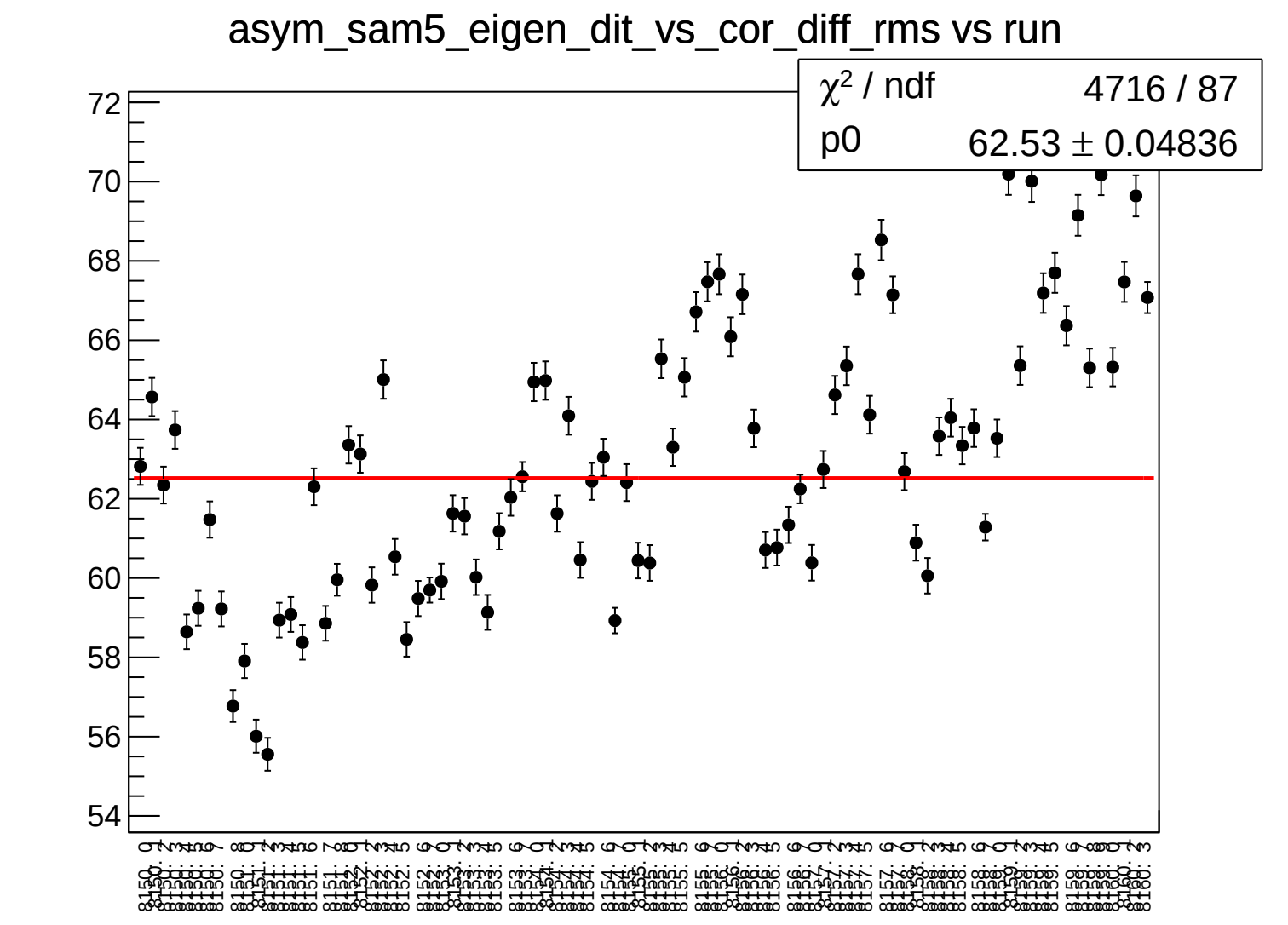

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4715 / 87
p0 62.53 ± 0.04836
72
70
68
66
64
62
60
58
56
54

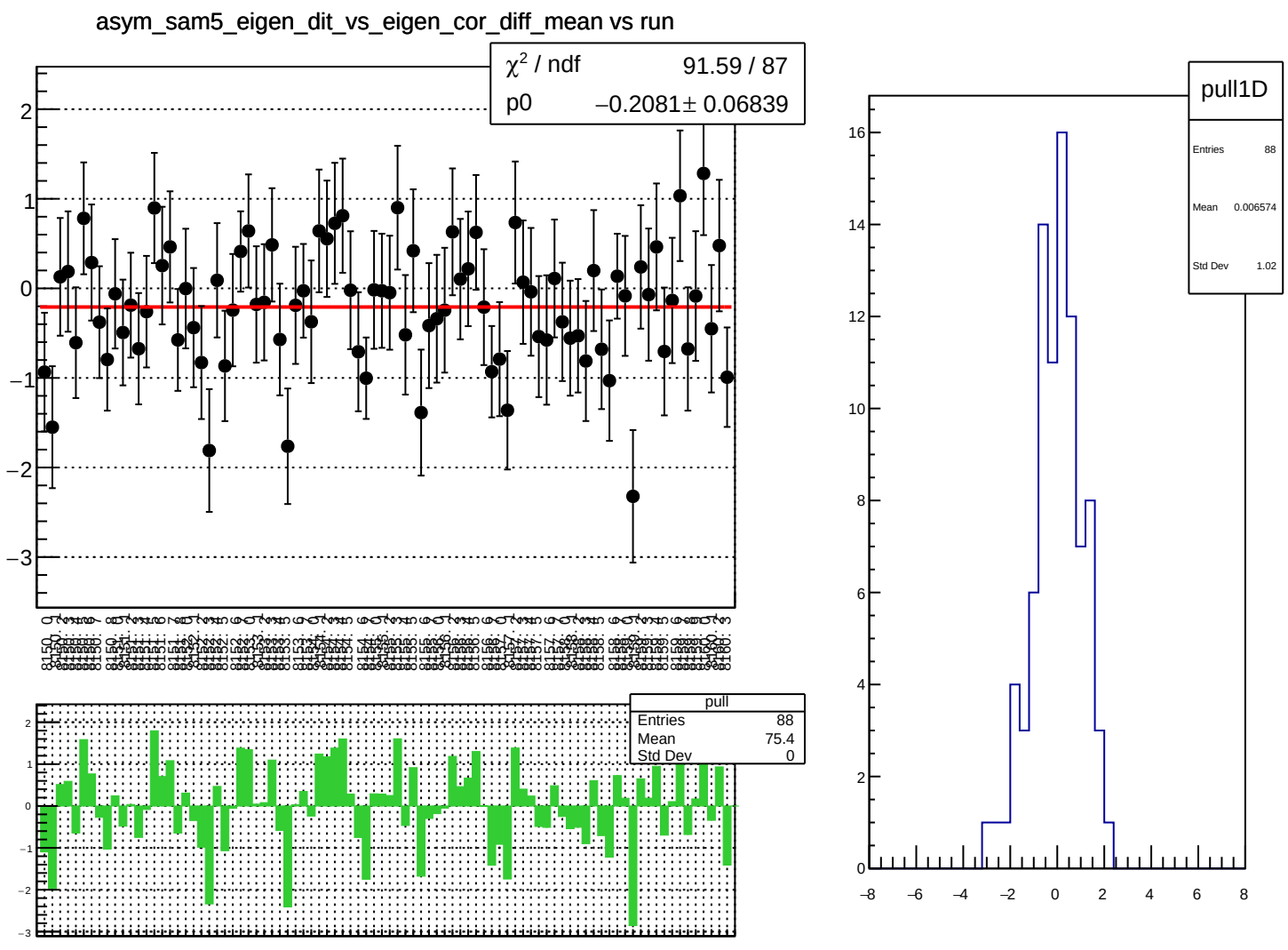

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.72 / 87
p0 −4.316e−06 ± 3.896e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean −78.52
Std Dev 0
2
1
0
−1
−2

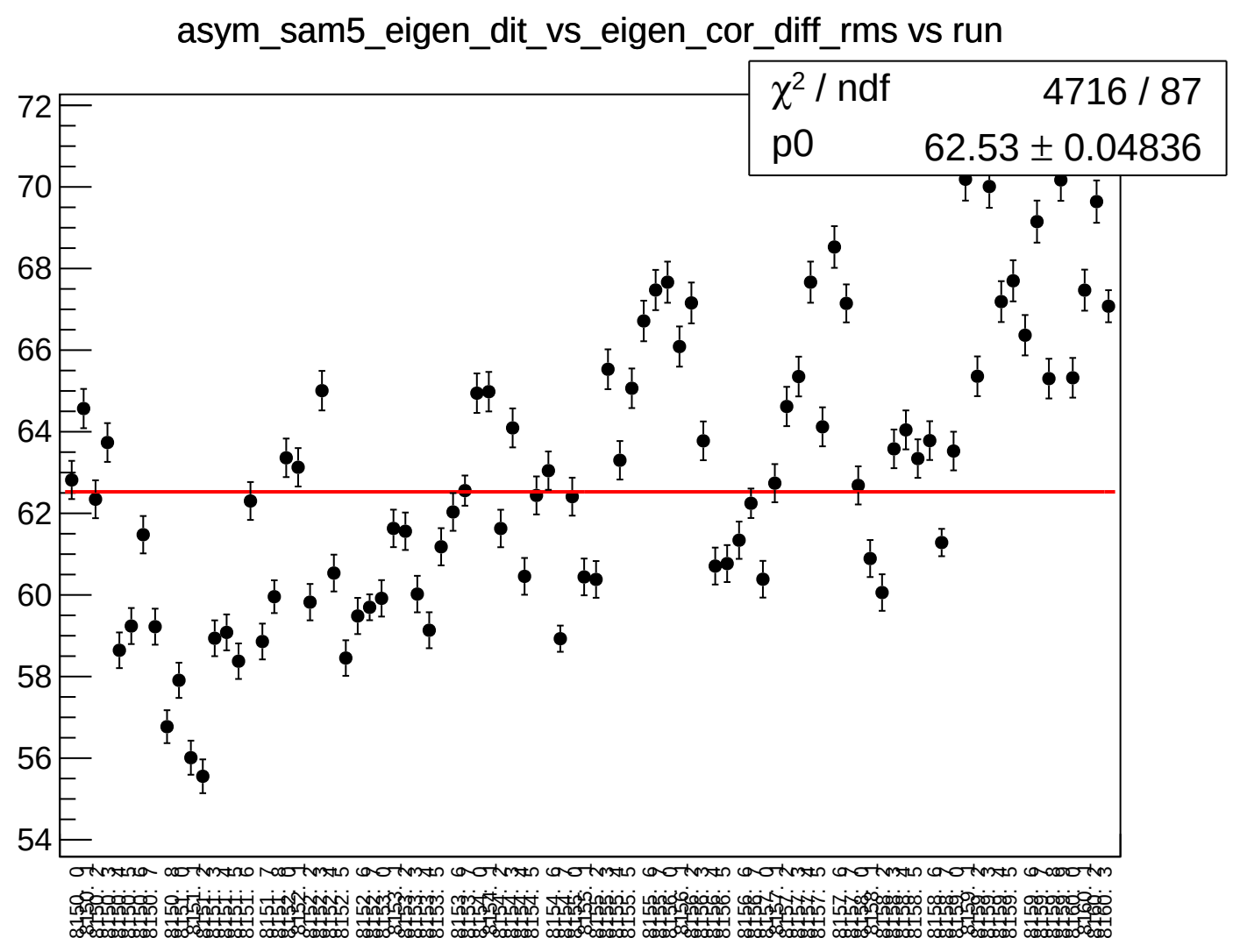

pull1D
Entries 88
Mean −0.006928
Std Dev 0.9636
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

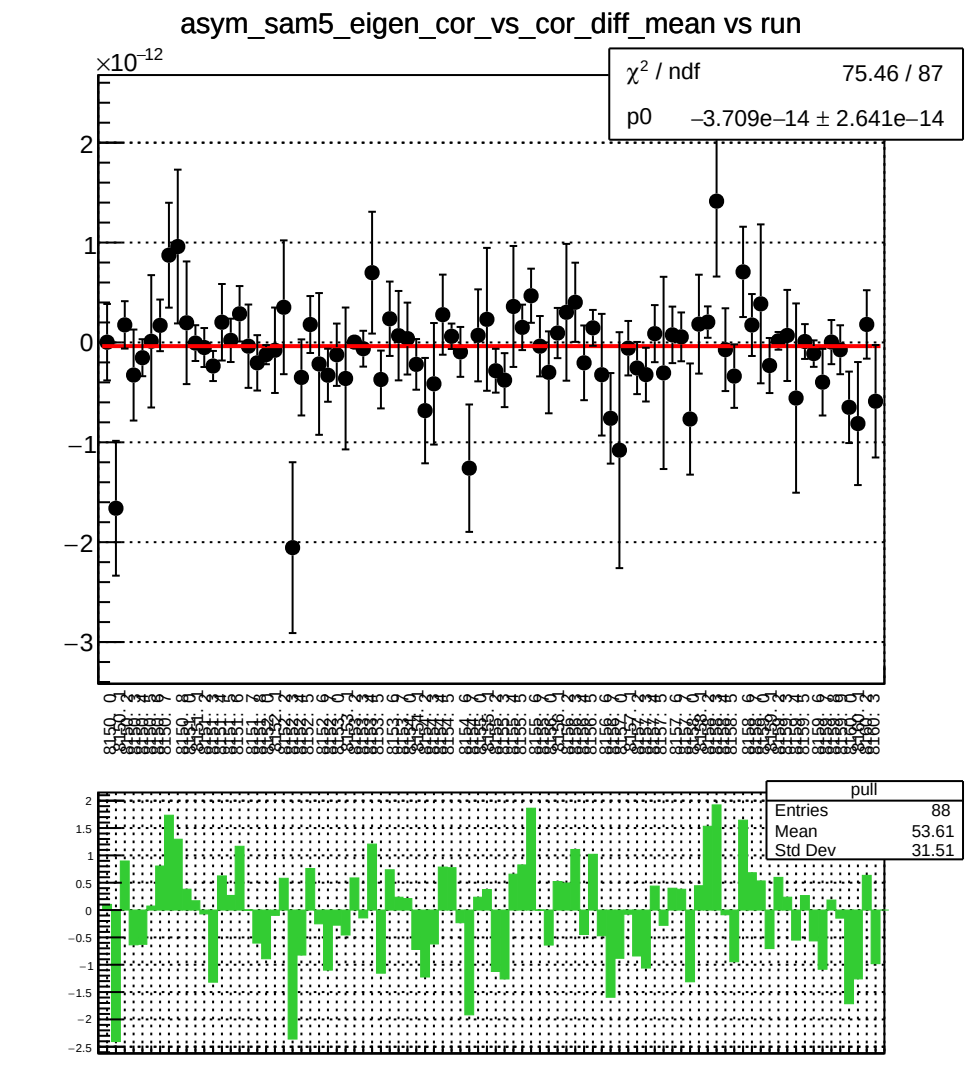

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4141 / 87
p0 0.003563 ± 2.755e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

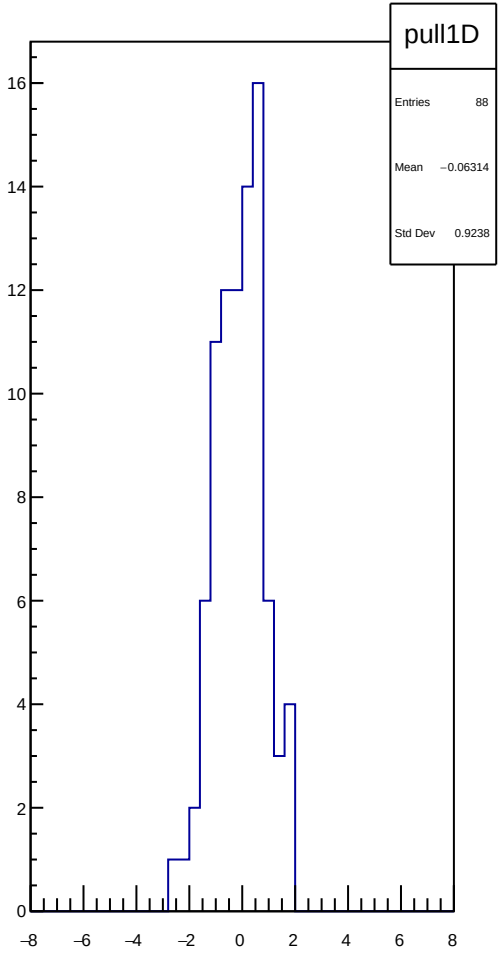

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.59 / 87
p0 −0.2081± 0.06839
pull
Entries 88
Mean 75.4
Std Dev 0
pull1D
Entries 88
Mean 0.006574
Std Dev 1.02

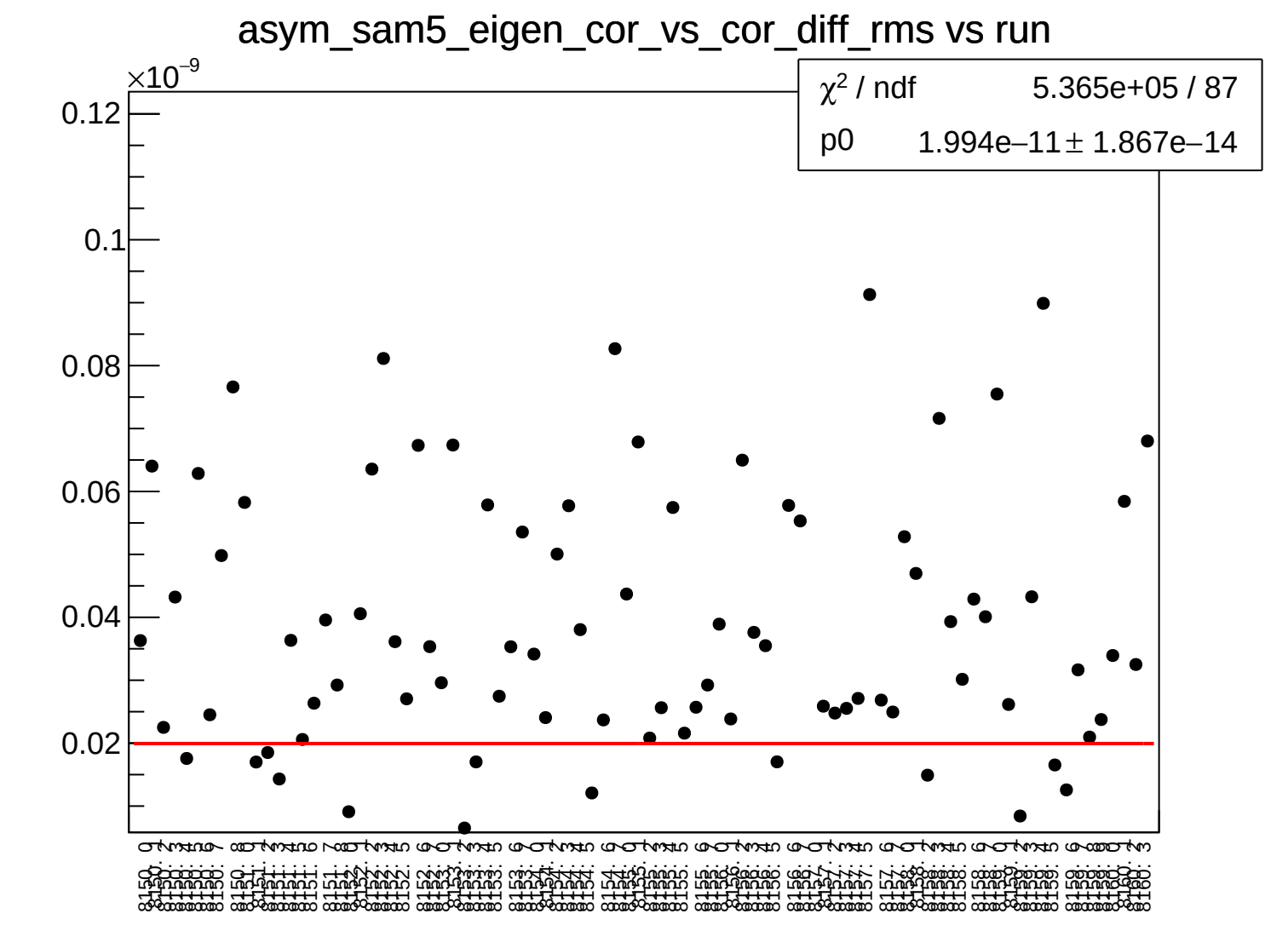

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4716 / 87
p0 62.53 ± 0.04836
72
70
68
66
64
62
60
58
56
54

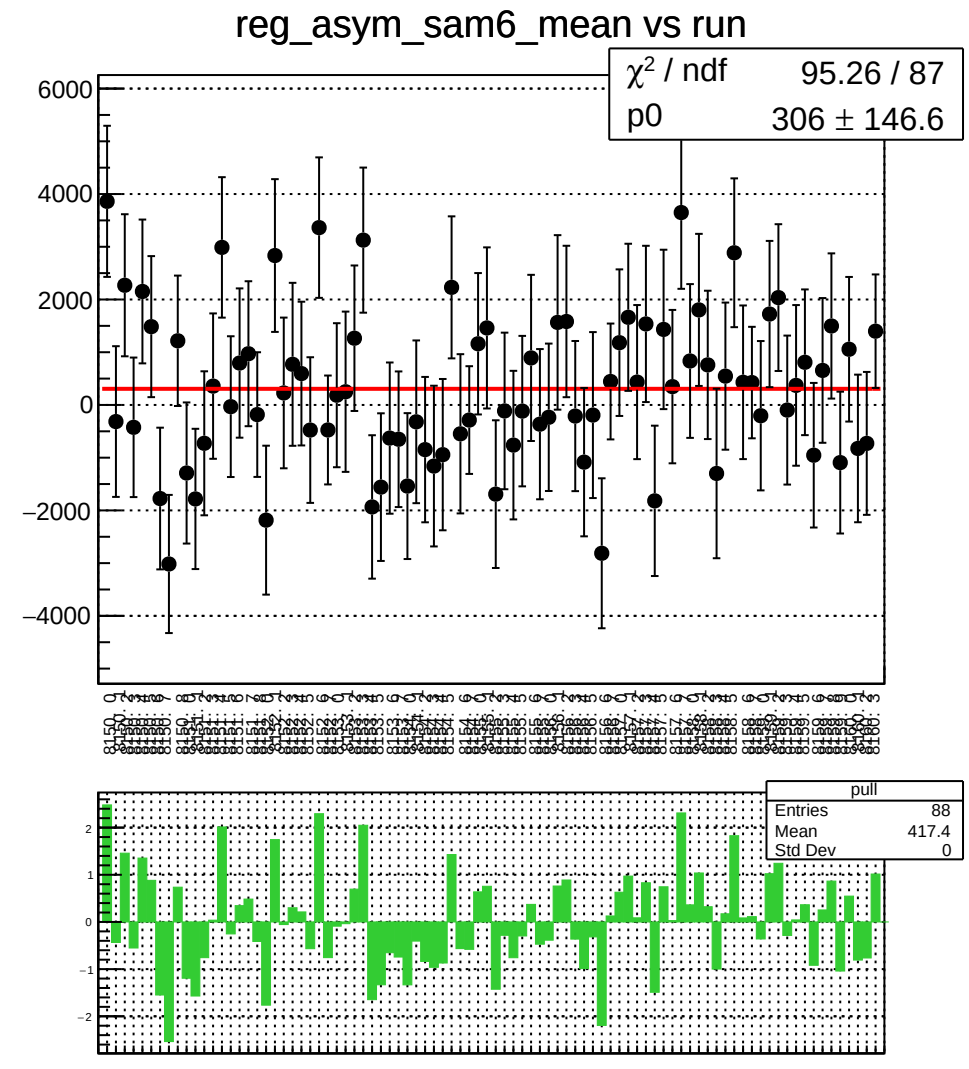

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.59 / 87
p0 −0.2081± 0.06839
pull
Entries 88
Mean 75.4
Std Dev 0
pull1D
Entries 88
Mean 0.006574
Std Dev 1.02

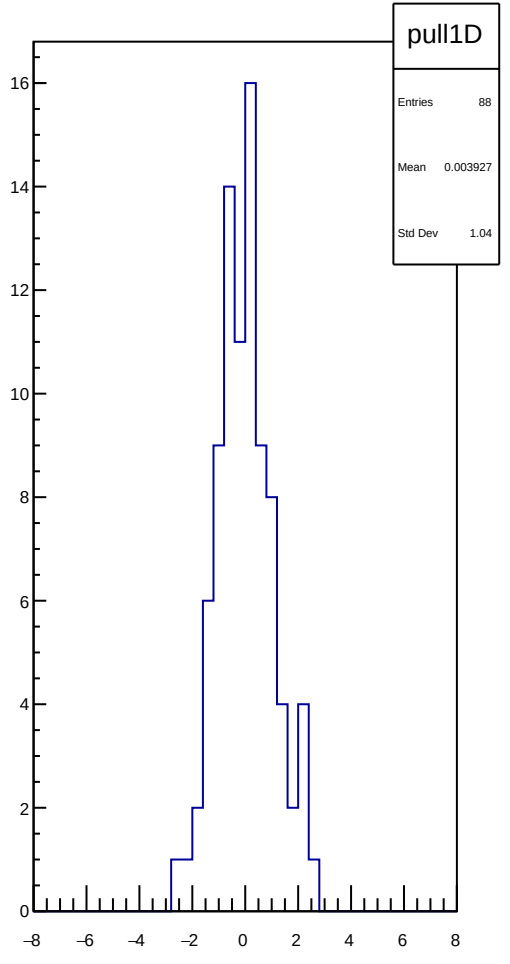

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4716 / 87
p0 62.53 ± 0.04836
72
70
68
66
64
62
60
58
56
54

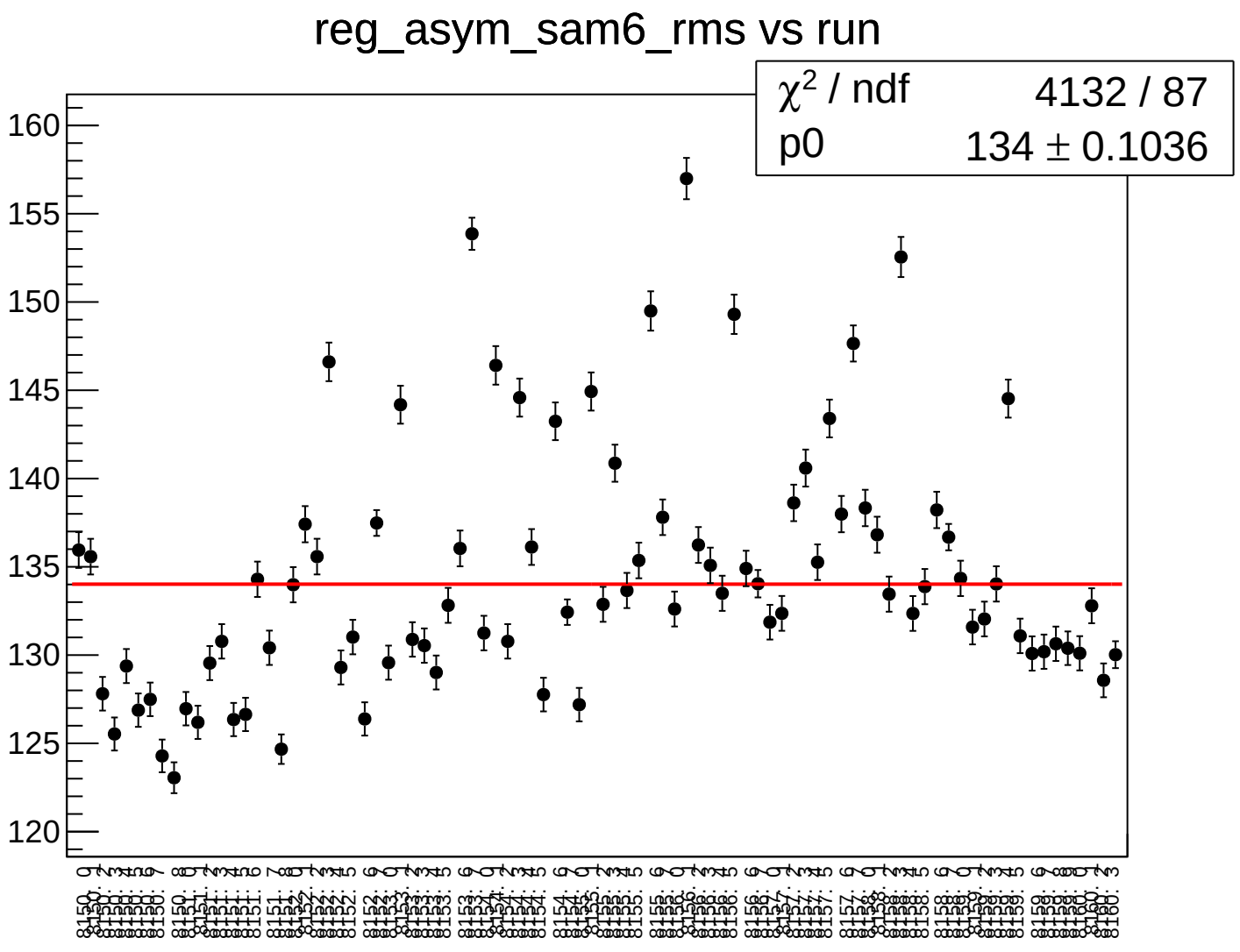

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.46 / 87
p0 −3.709e−14 ± 2.641e−14
pull
Entries 88
Mean 53.61
Std Dev 31.51

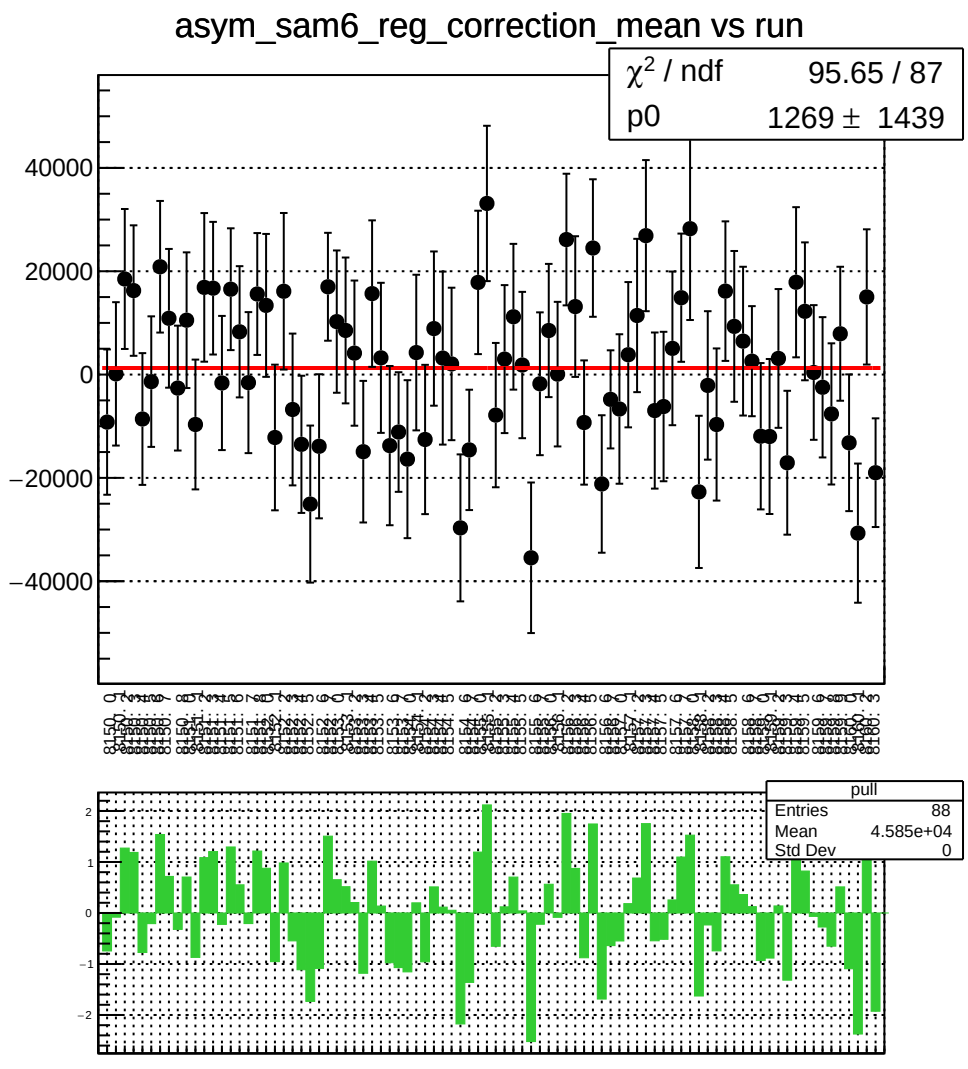

pull1D
Entries 88
Mean −0.06314
Std Dev 0.9238

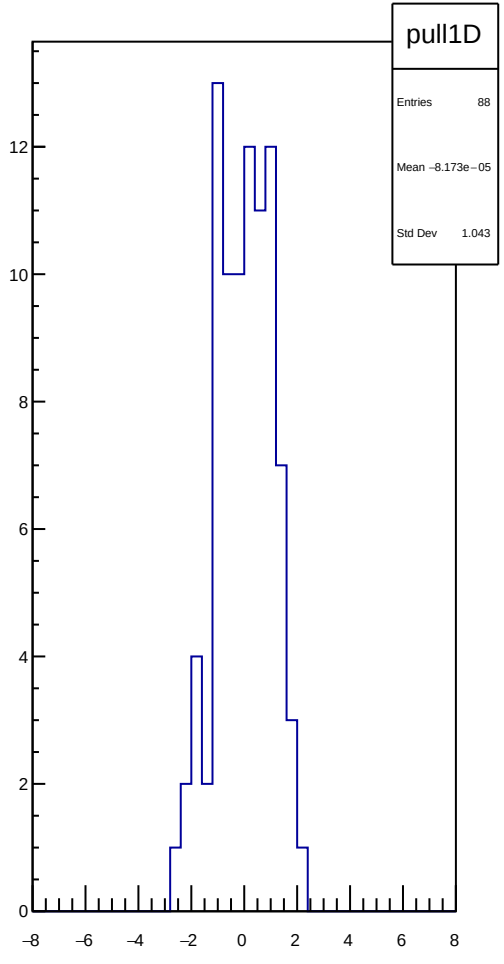

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 5.365e+05 / 87
p0 1.994e−11 ± 1.867e−14

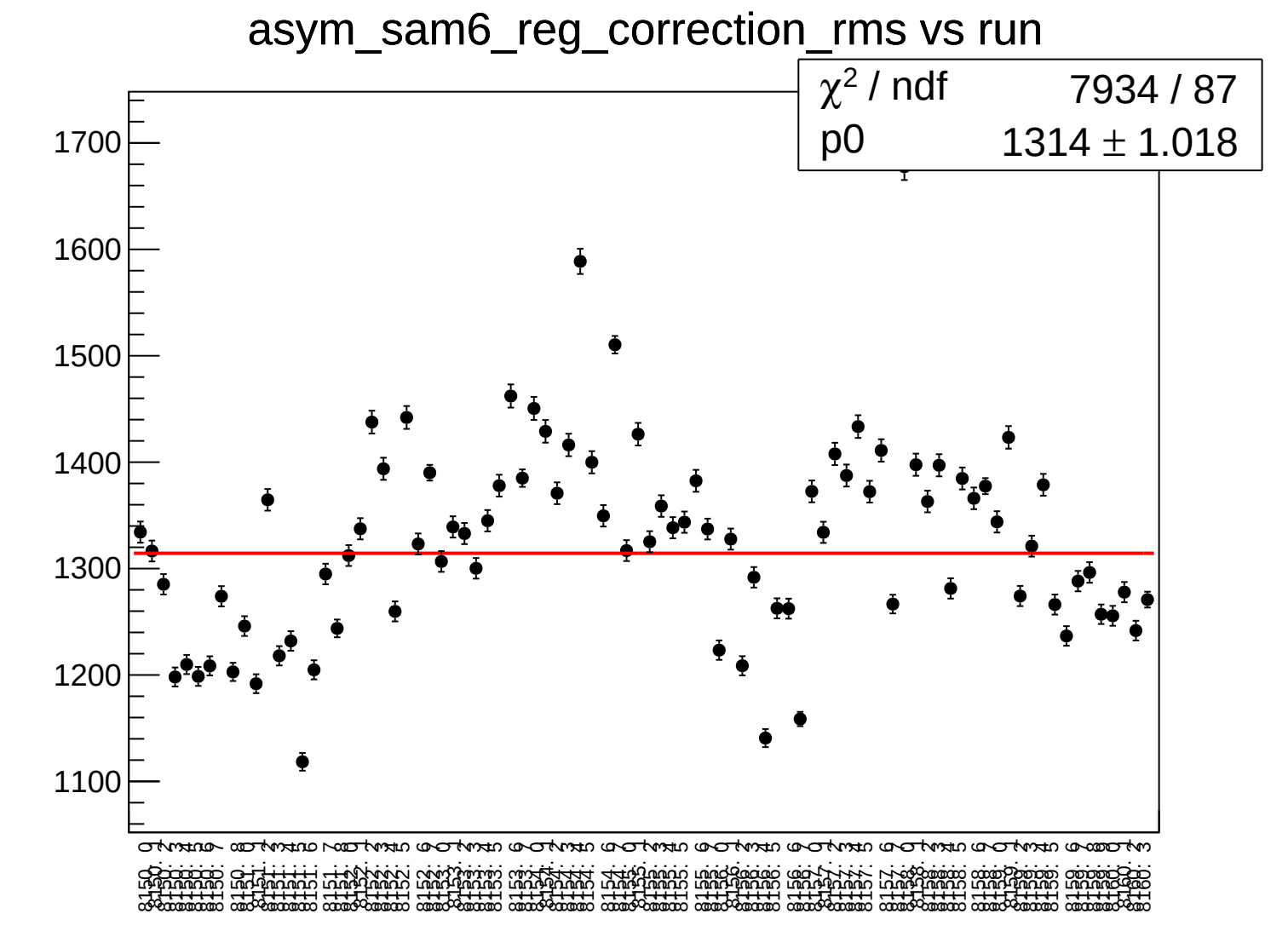

reg_asym_sam6_mean vs run
χ² / ndf 95.26 / 87
p0 306 ± 146.6
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 417.4
Std Dev 0
2
1
0
−1
−2

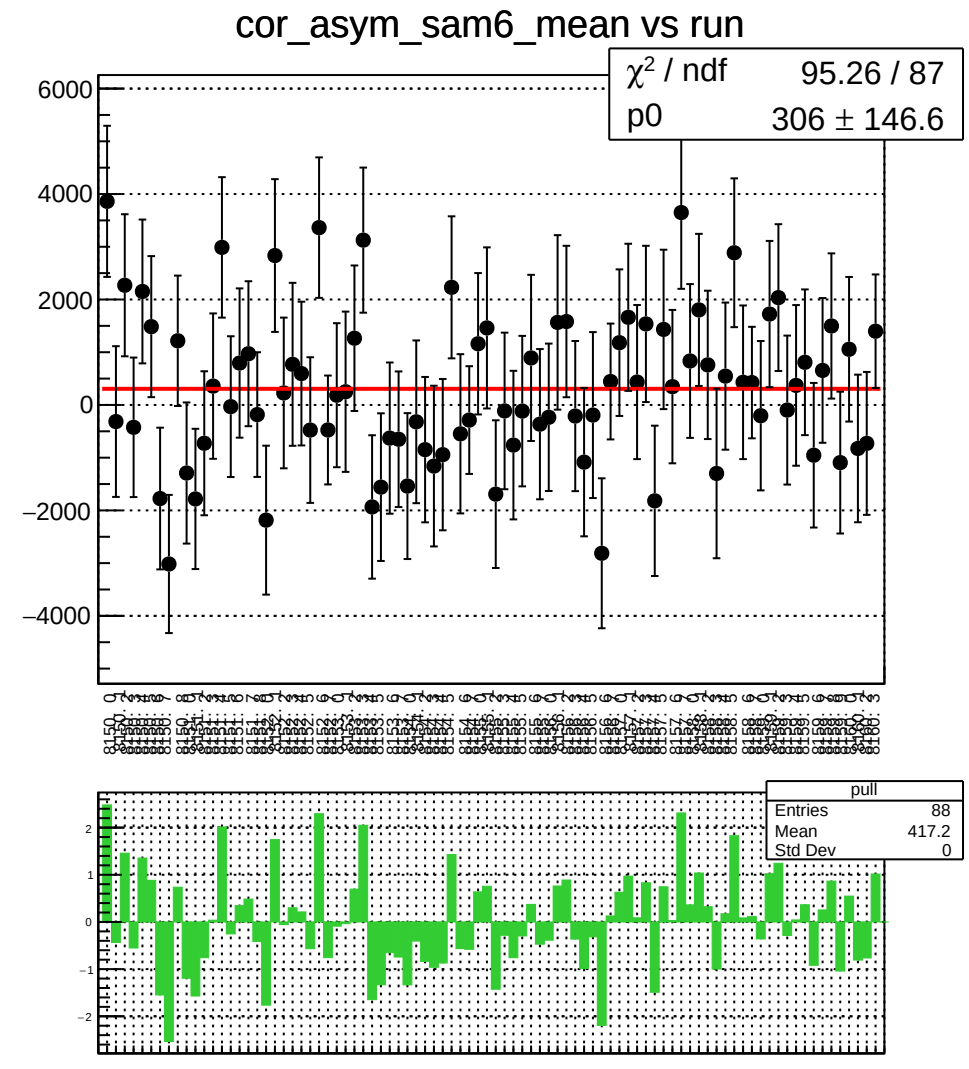

pull1D
Entries 88
Mean 0.003927
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

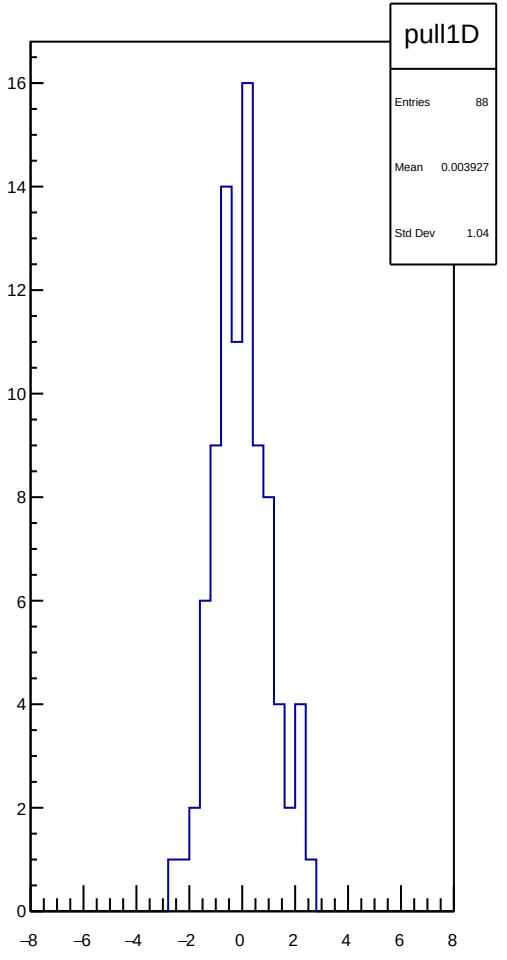

reg_asym_sam6_rms vs run
χ² / ndf 4132 / 87
p0 134 ± 0.1036
160
155
150
145
140
135
130
125
120

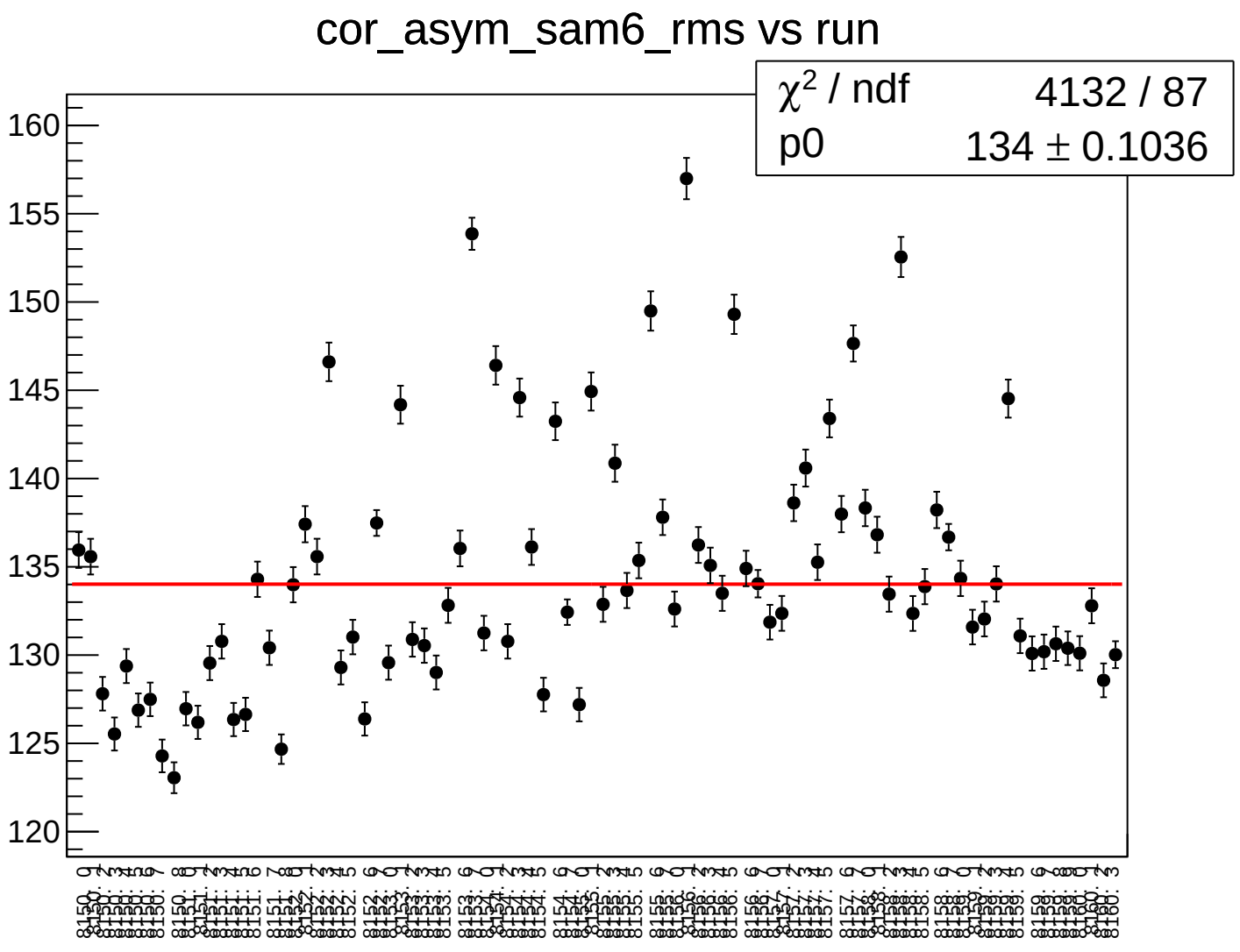

asym_sam6_reg_correction_mean vs run
χ² / ndf 95.65 / 87
p0 1269 ± 1439
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 4.585e+04
Std Dev 0
2
1
0
−1
−2

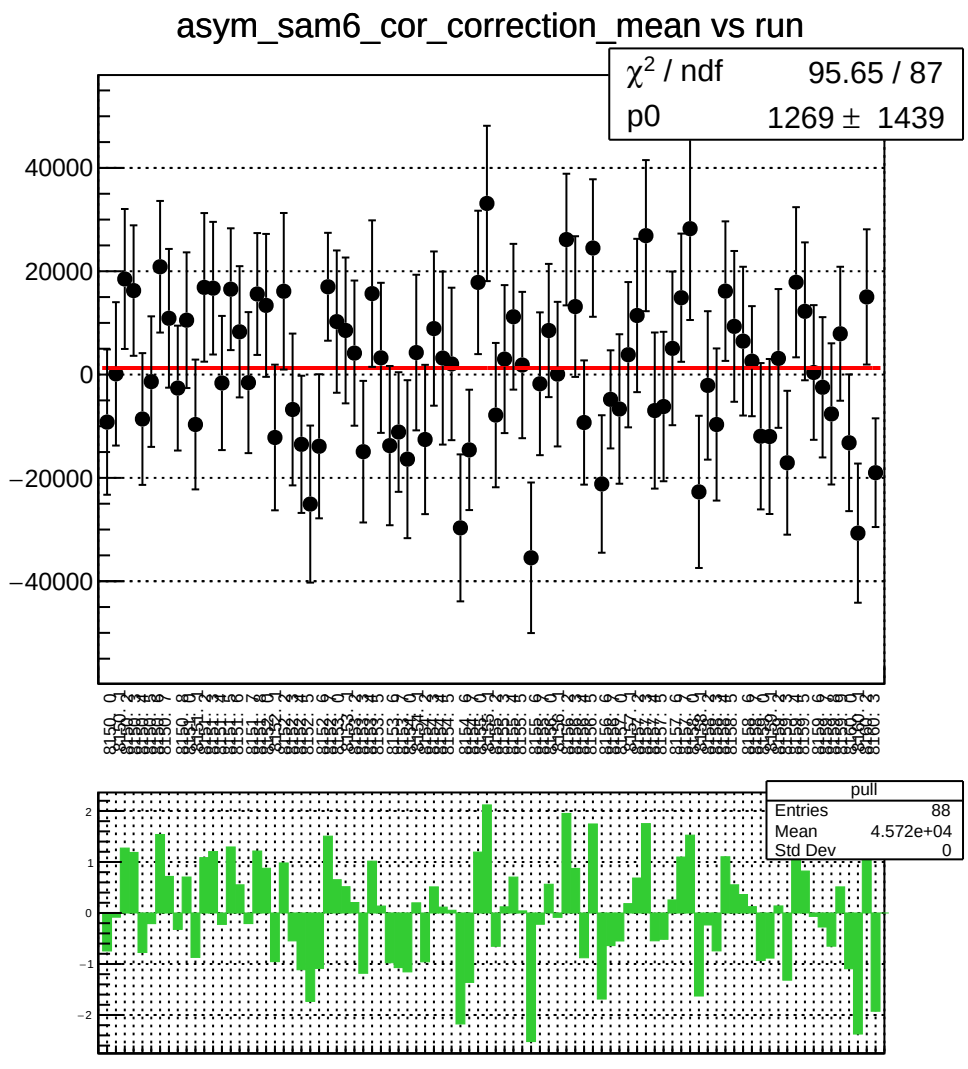

pull1D
Entries 88
Mean −8.173e−05
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

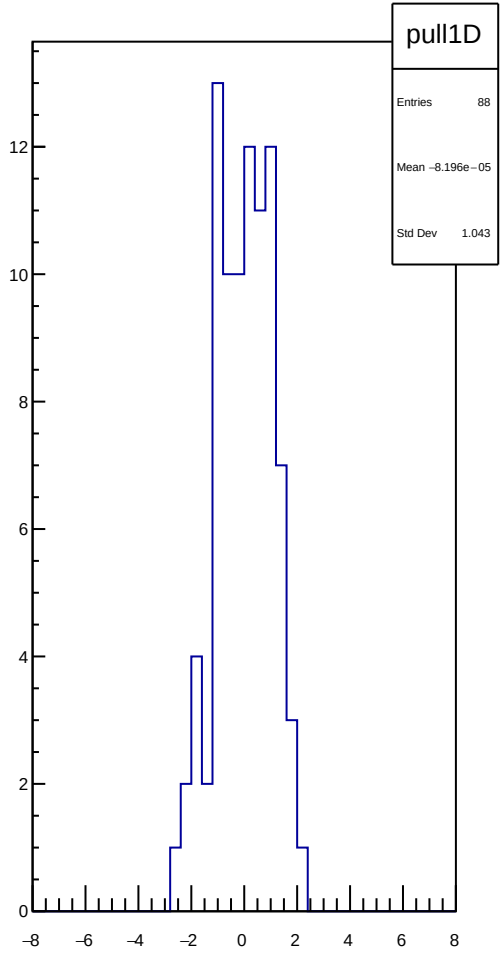

asym_sam6_reg_correction_rms vs run
χ² / ndf 7934 / 87
p0 1314 ± 1.018
1700
1600
1500
1400
1300
1200
1100


cor_asym_sam6_mean vs run
χ² / ndf 95.26 / 87
p0 306 ± 146.6
pull
Entries 88
Mean 417.2
Std Dev 0


pull1D
Entries 88
Mean 0.003927
Std Dev 1.04


cor_asym_sam6_rms vs run
χ^2 / ndf 4132 / 87
p0 134 ± 0.1036
160
155
150
145
140
135
130
125
120


asym_sam6_cor_correction_mean vs run
χ² / ndf 95.65 / 87
p0 1269 ± 1439
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 4.572e+04
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −8.196e−05
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
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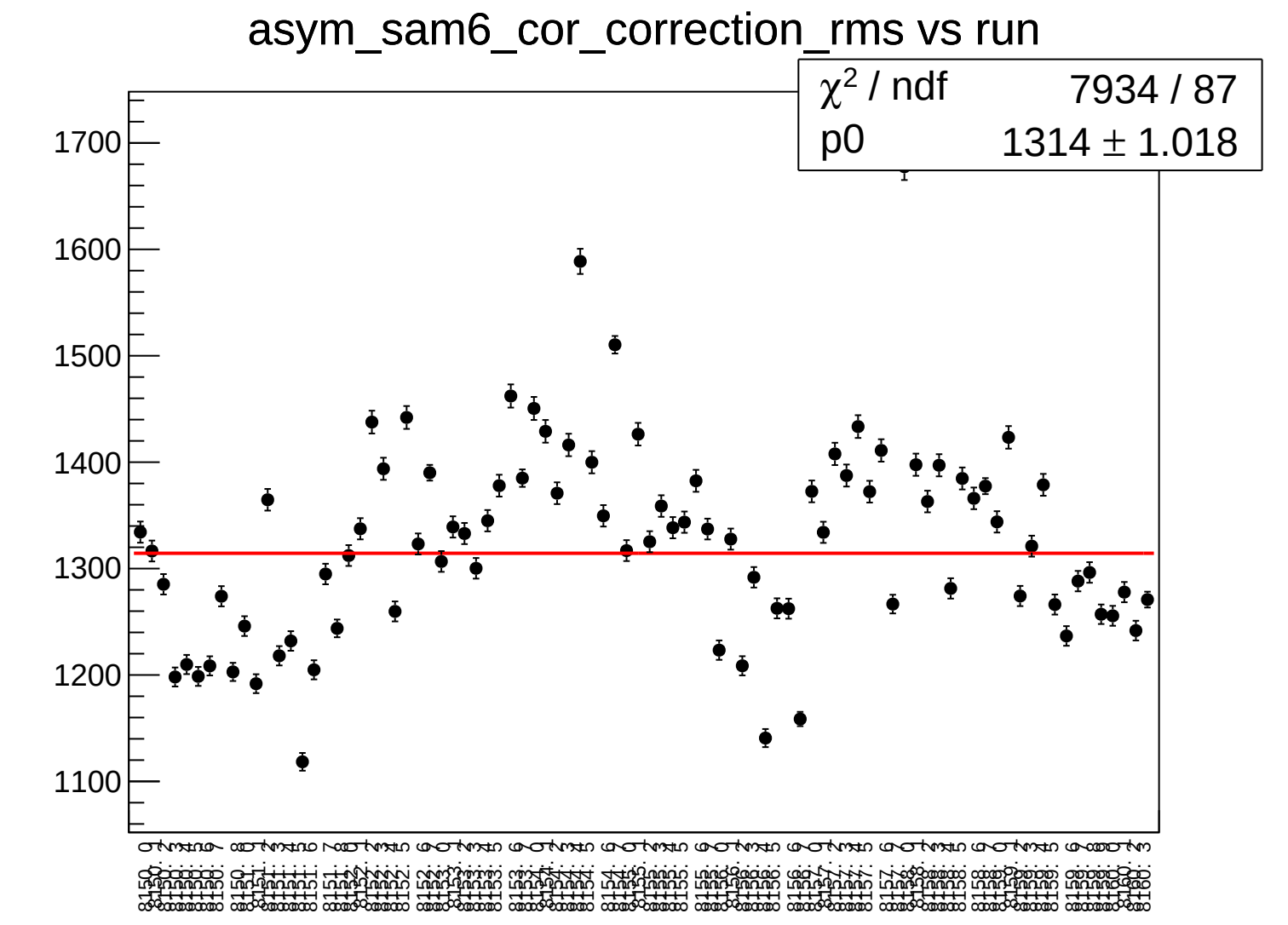
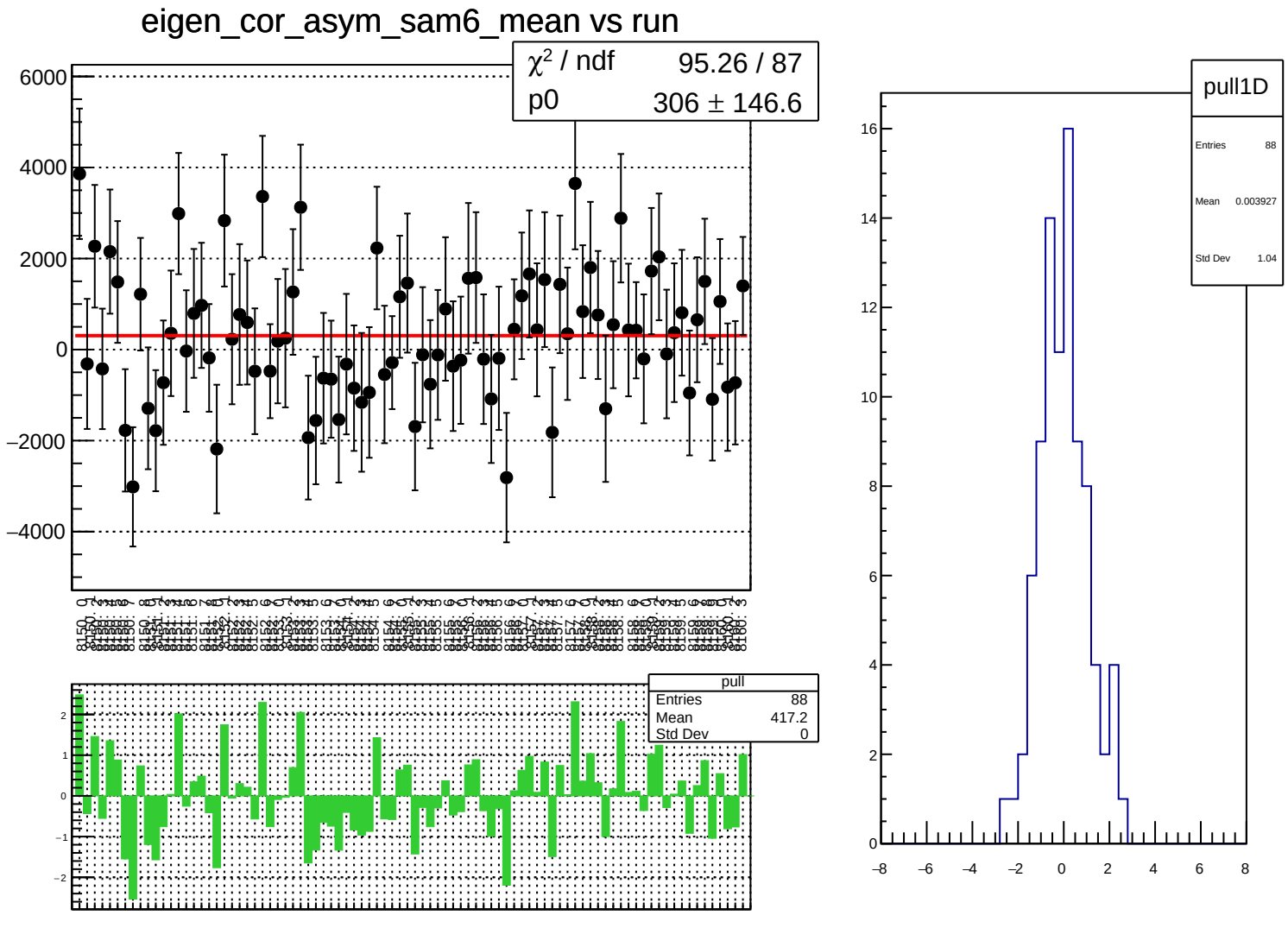
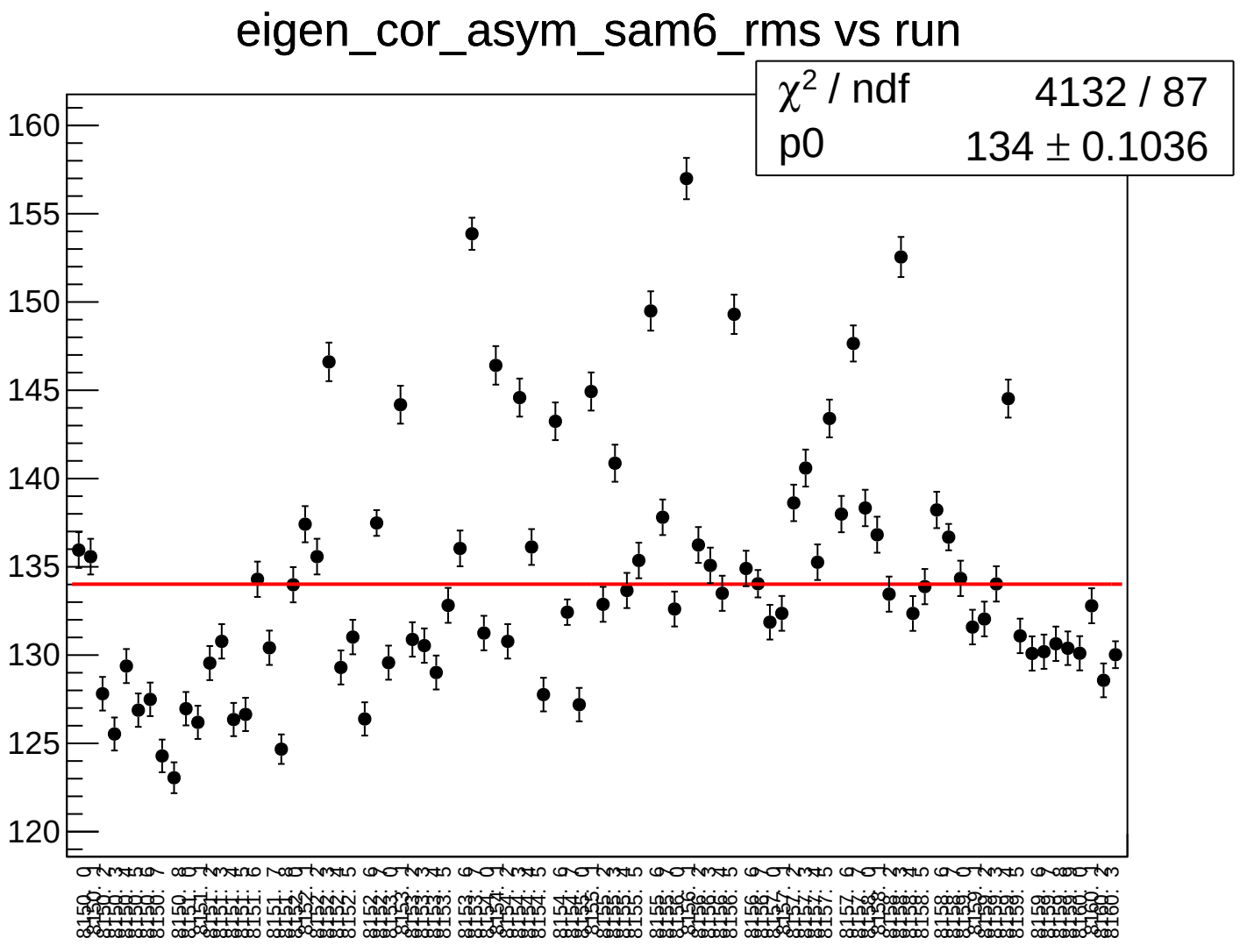
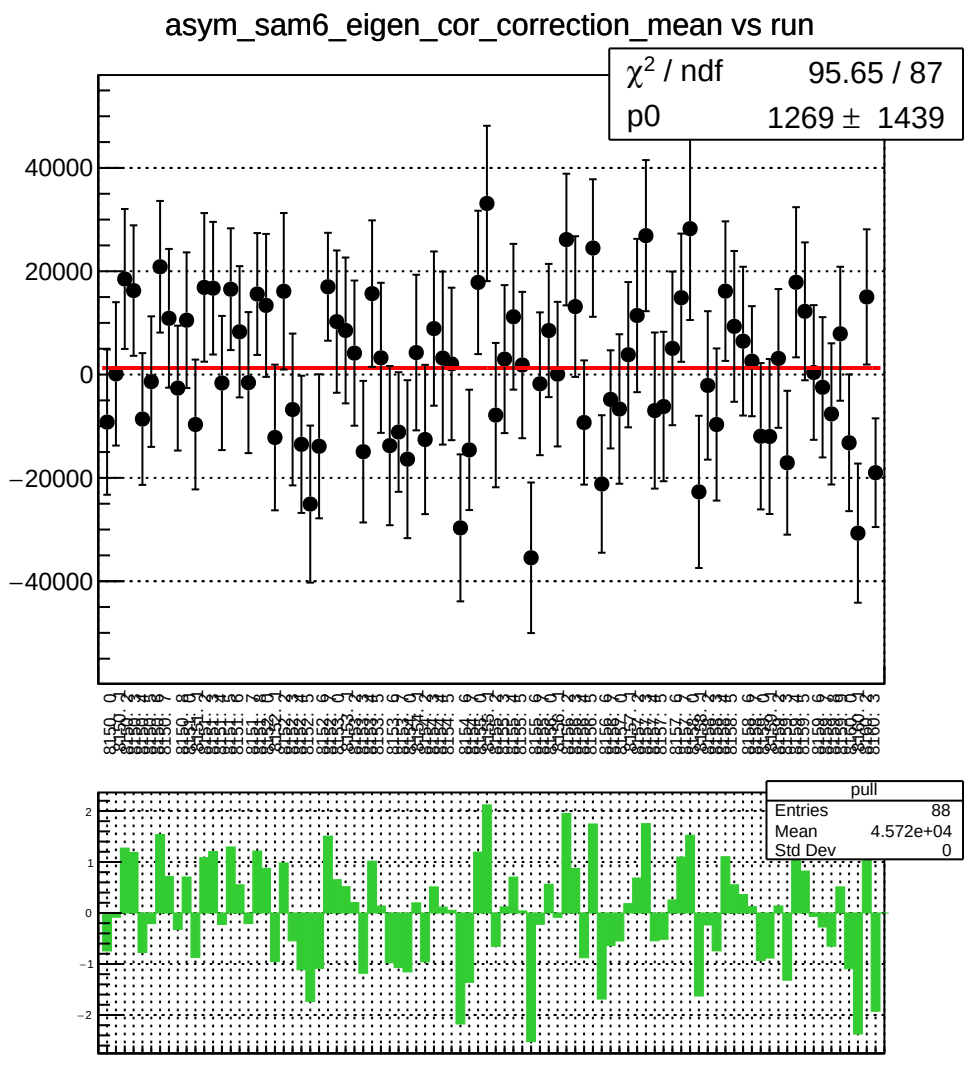
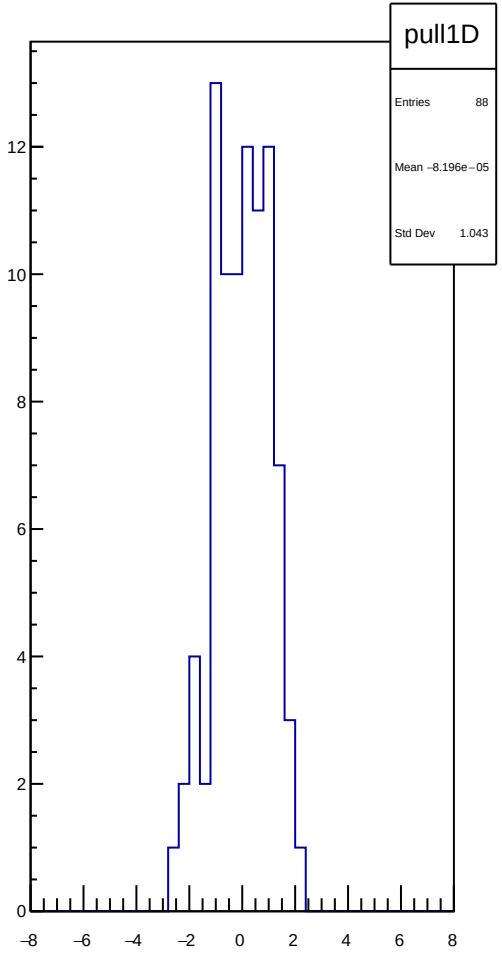
2
4
6
8

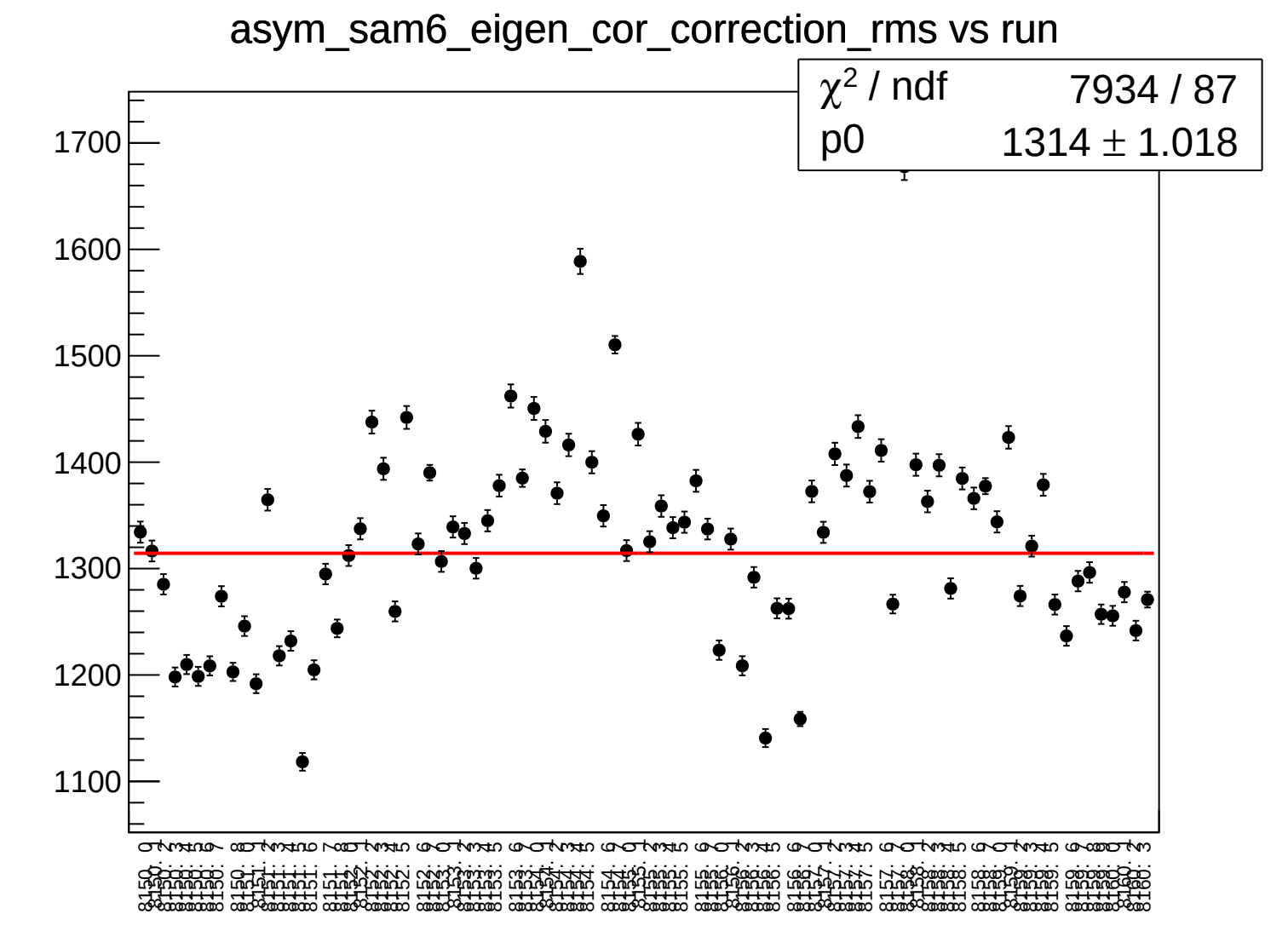

asym_sam6_cor_correction_rms vs run
χ² / ndf 7934 / 87
p0 1314 ± 1.018
1700
1600
1500
1400
1300
1200
1100

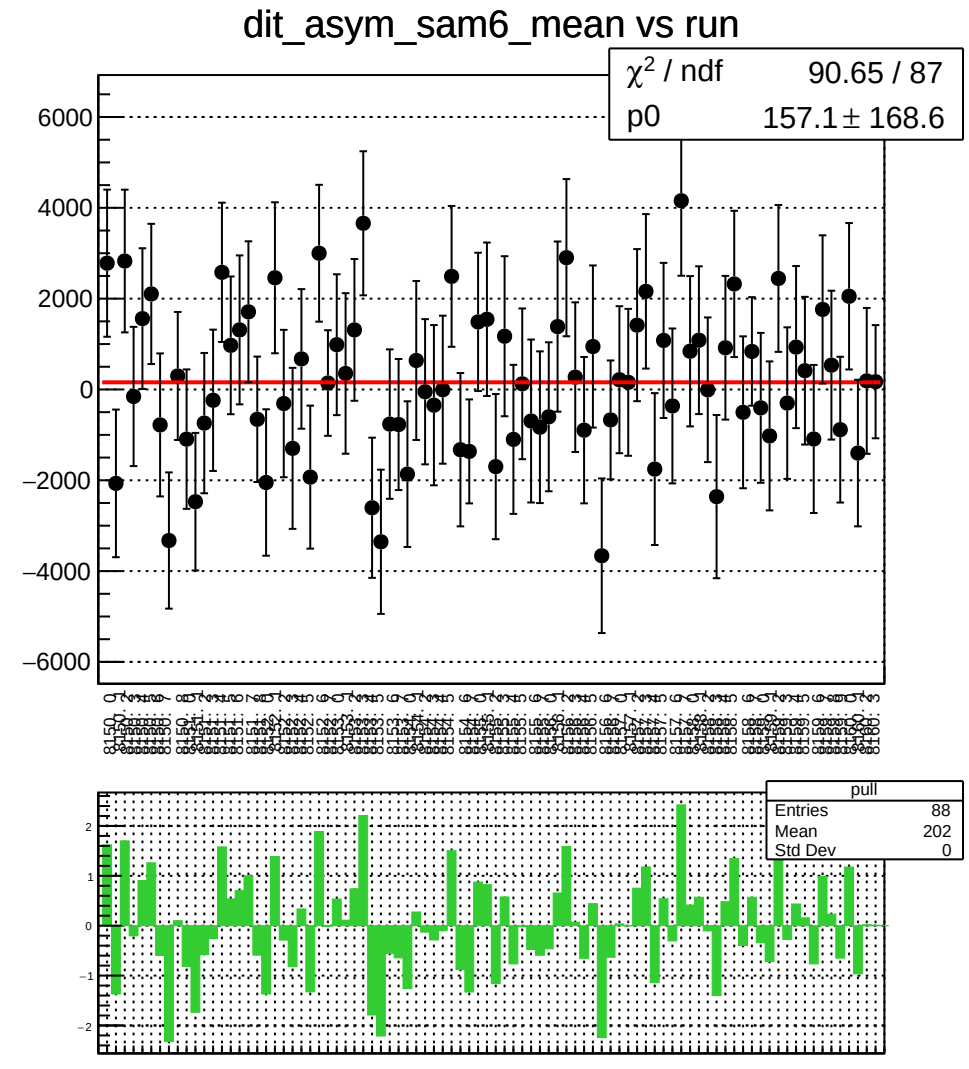

eigen_cor_asym_sam6_mean vs run
χ² / ndf 95.26 / 87
p0 306 ± 146.6
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 417.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.003927
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

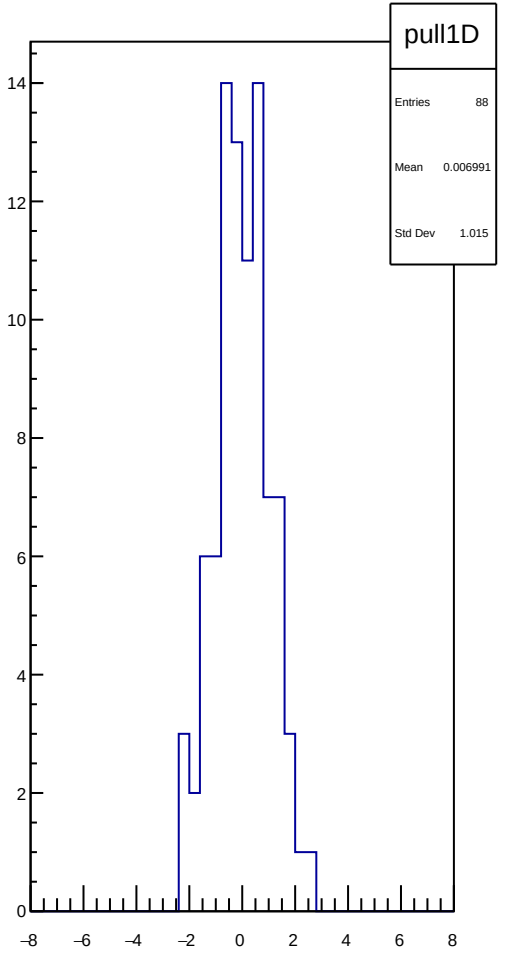

eigen_cor_asym_sam6_rms vs run
χ² / ndf 4132 / 87
p0 134 ± 0.1036
160
155
150
145
140
135
130
125
120

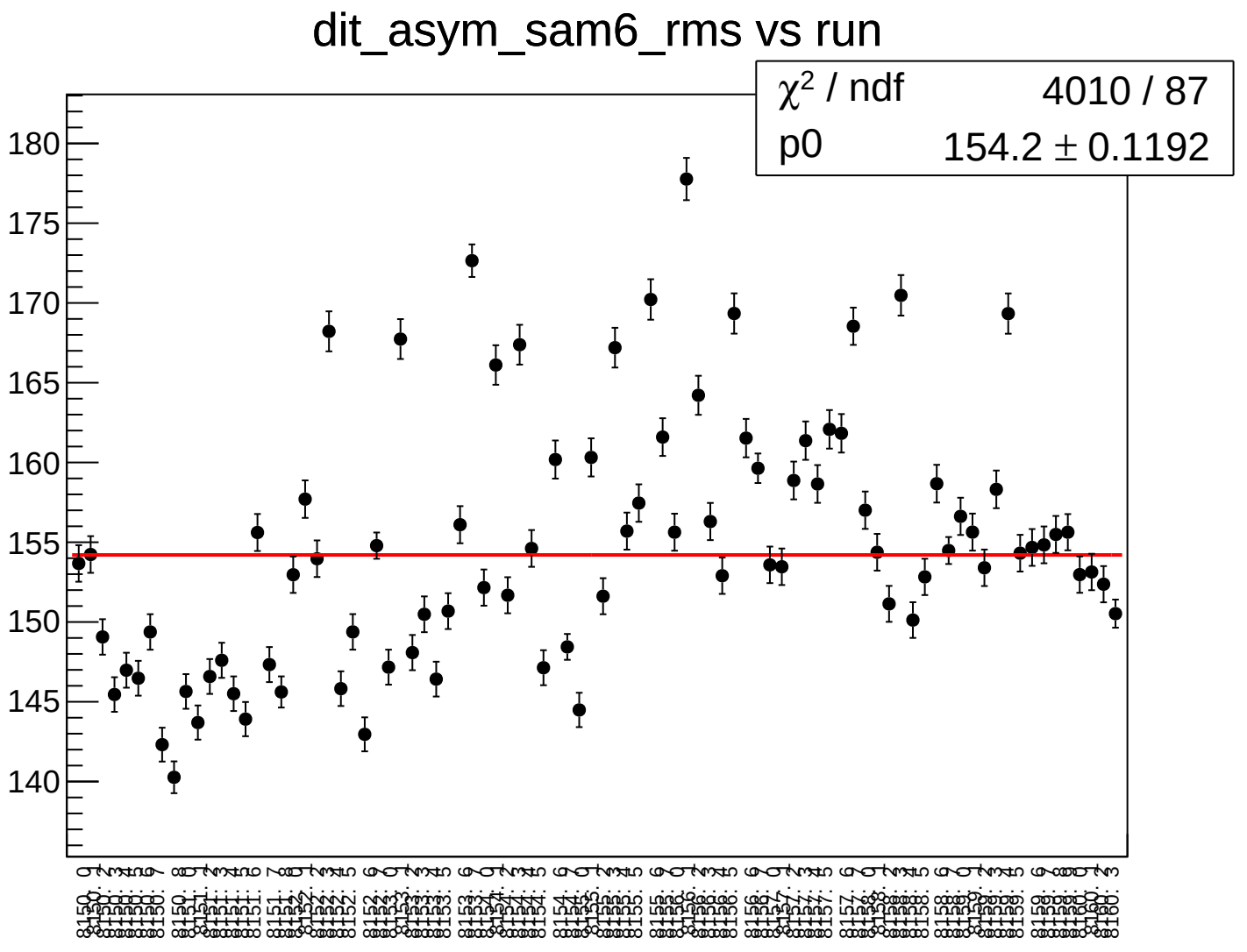

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 95.65 / 87
p0 1269 ± 1439
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 4.572e+04
Std Dev 0
2
1
0
−1
−2

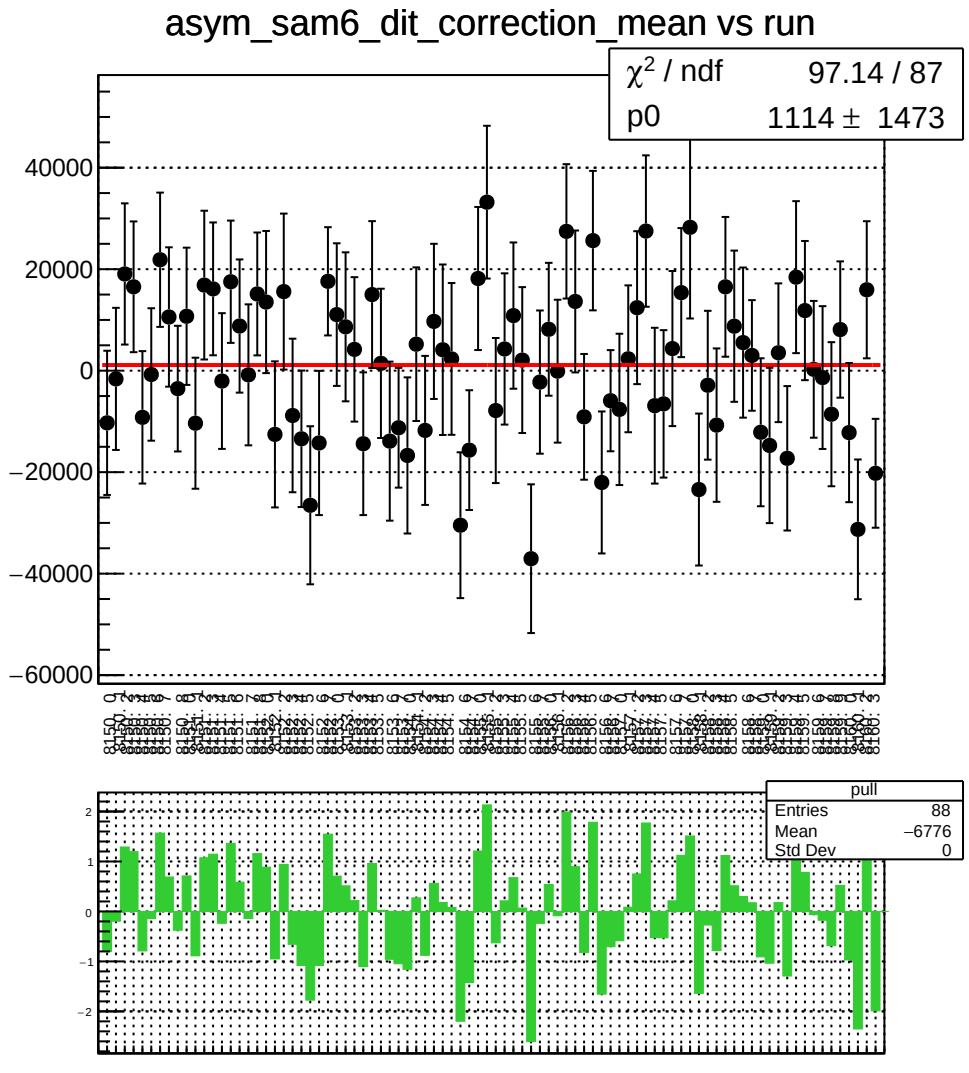

pull1D
Entries 88
Mean −8.196e−05
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

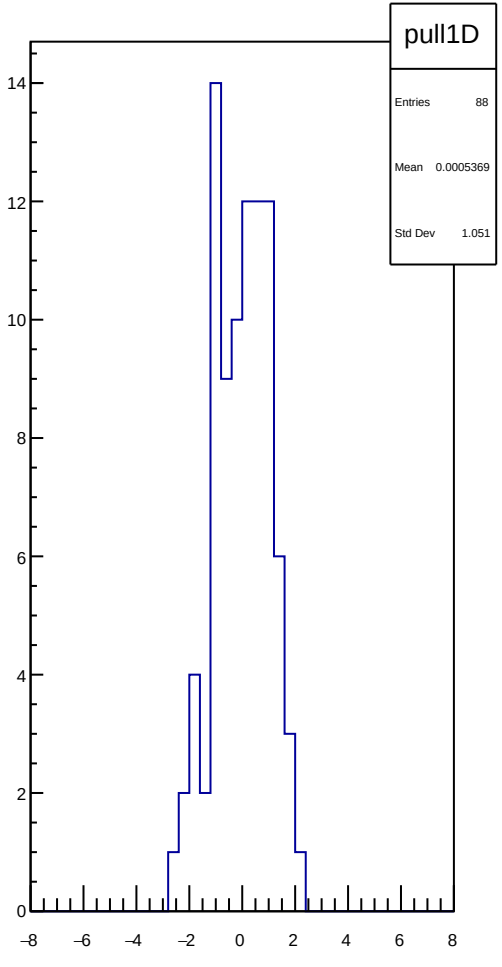

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 7934 / 87
p0 1314 ± 1.018
1700
1600
1500
1400
1300
1200
1100

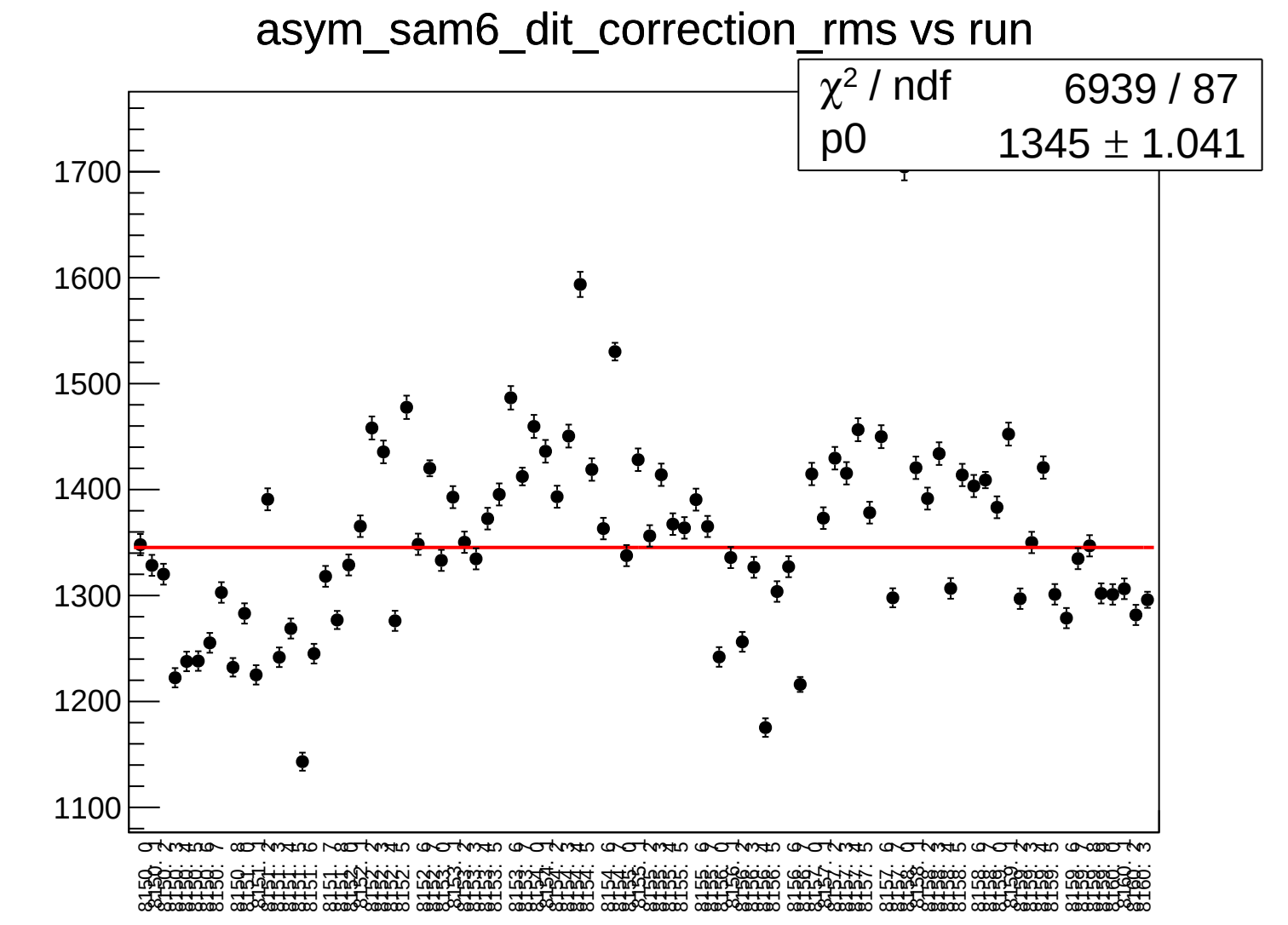

dit_asym_sam6_mean vs run
χ² / ndf 90.65 / 87
p0 157.1 ± 168.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 202
Std Dev 0
2
1
0
−1
−2

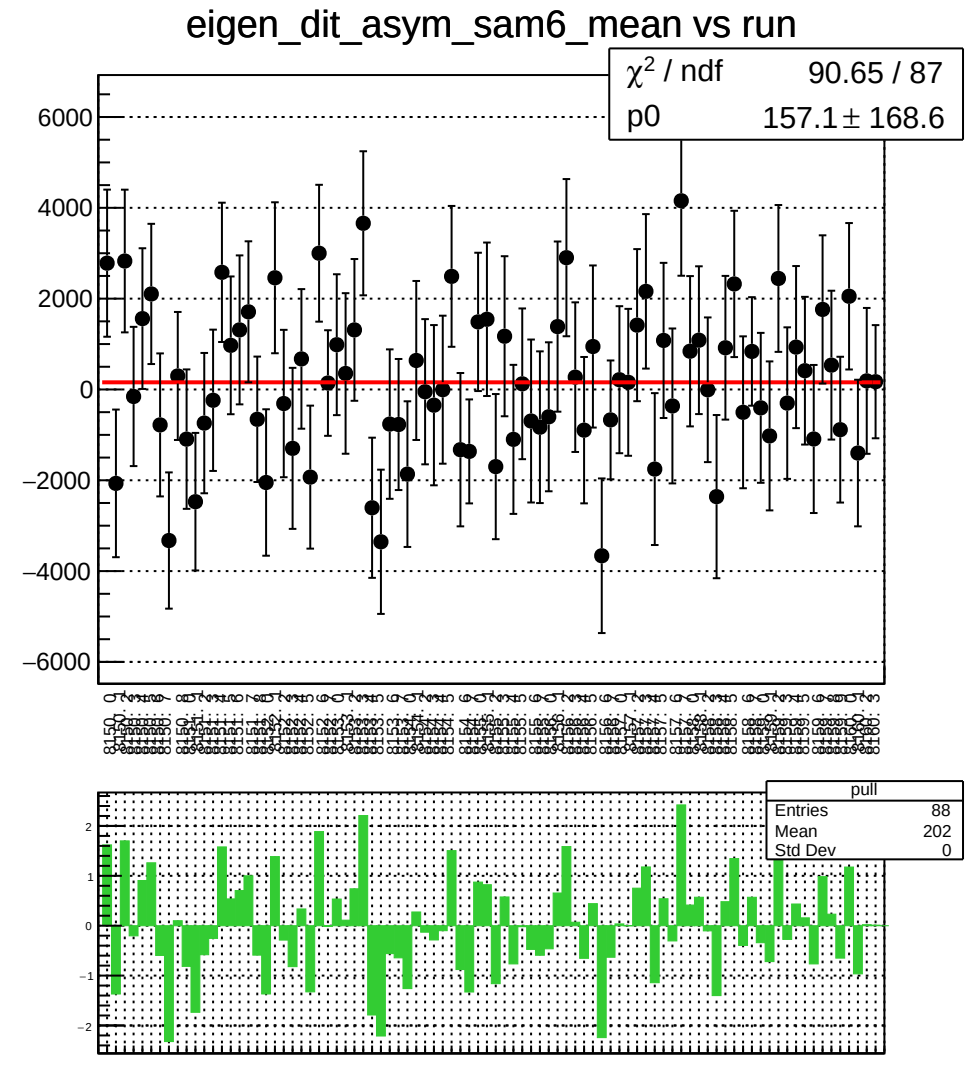

pull1D
Entries 88
Mean 0.006991
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

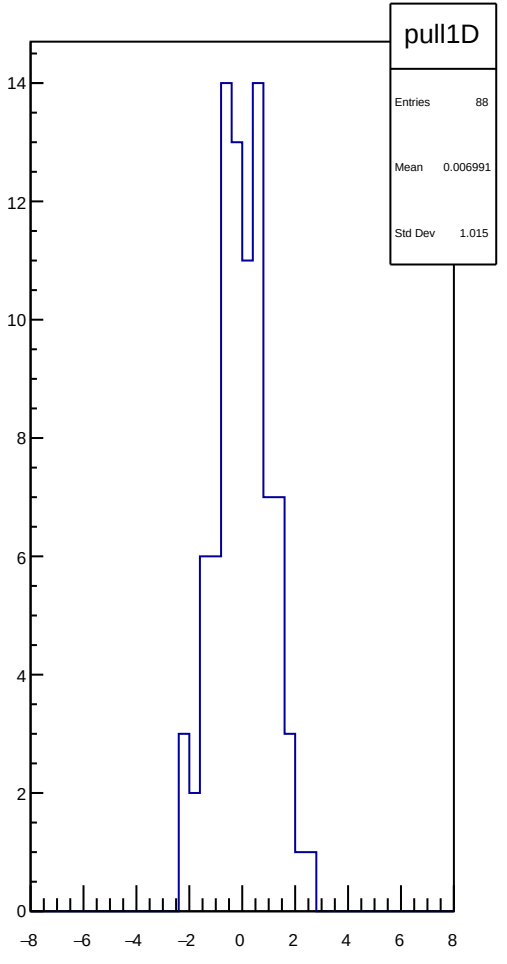

dit_asym_sam6_rms vs run
χ² / ndf 4010 / 87
p0 154.2 ± 0.1192
180
175
170
165
160
155
150
145
140

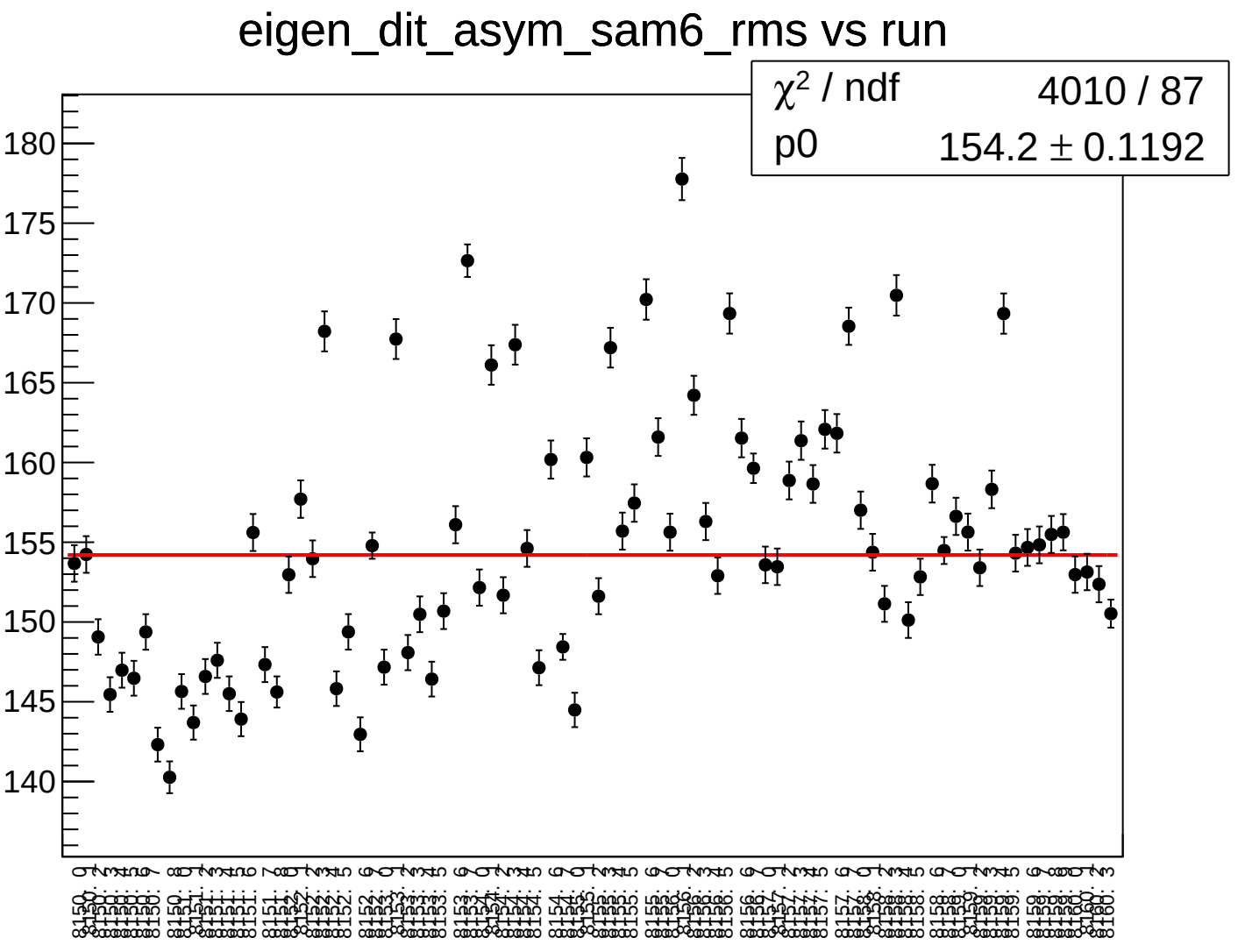

asym_sam6_dit_correction_mean vs run
χ² / ndf 97.14 / 87
p0 1114 ± 1473
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −6776
Std Dev 0
2
1
0
−1
−2

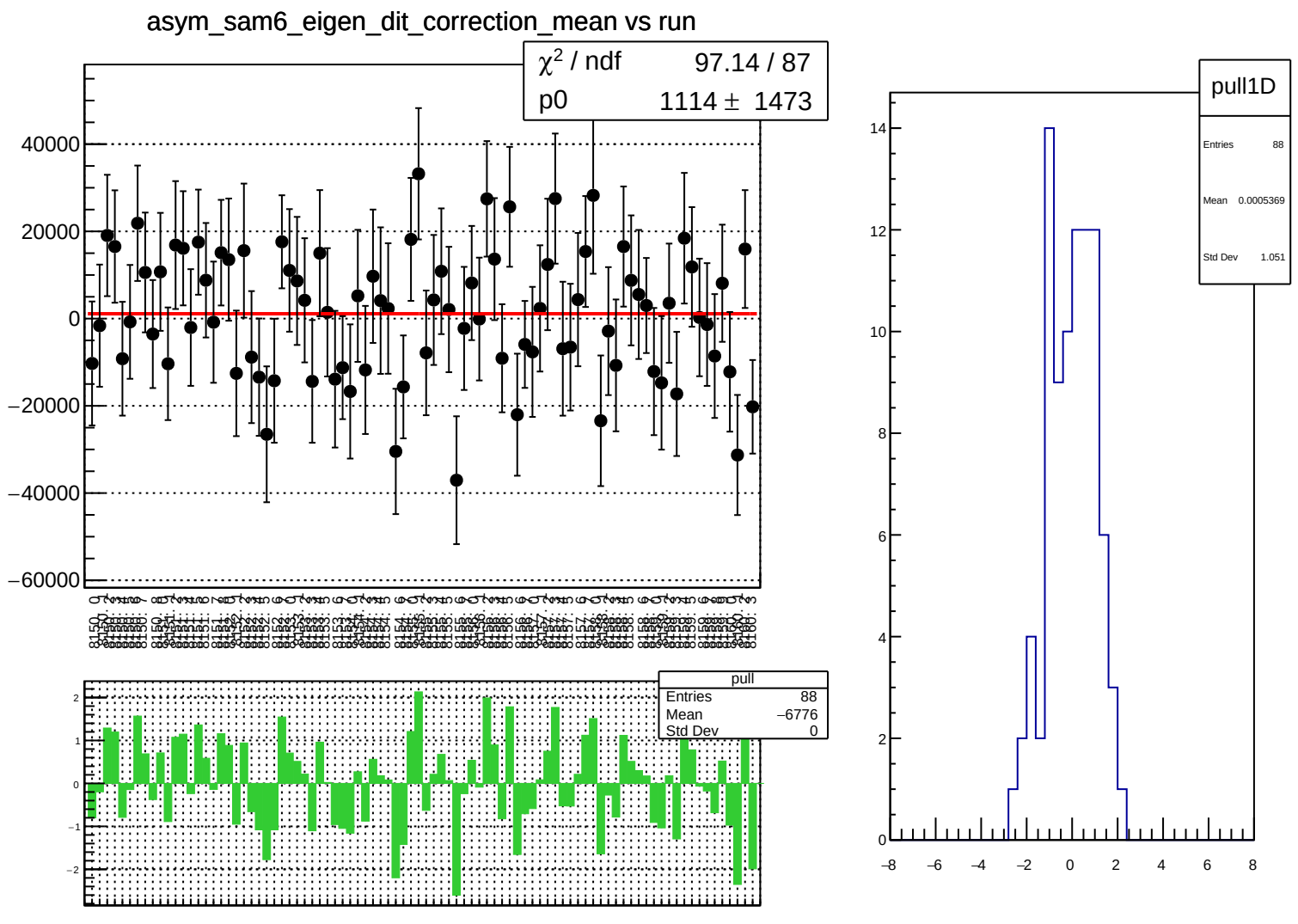

pull1D
Entries 88
Mean 0.0005369
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

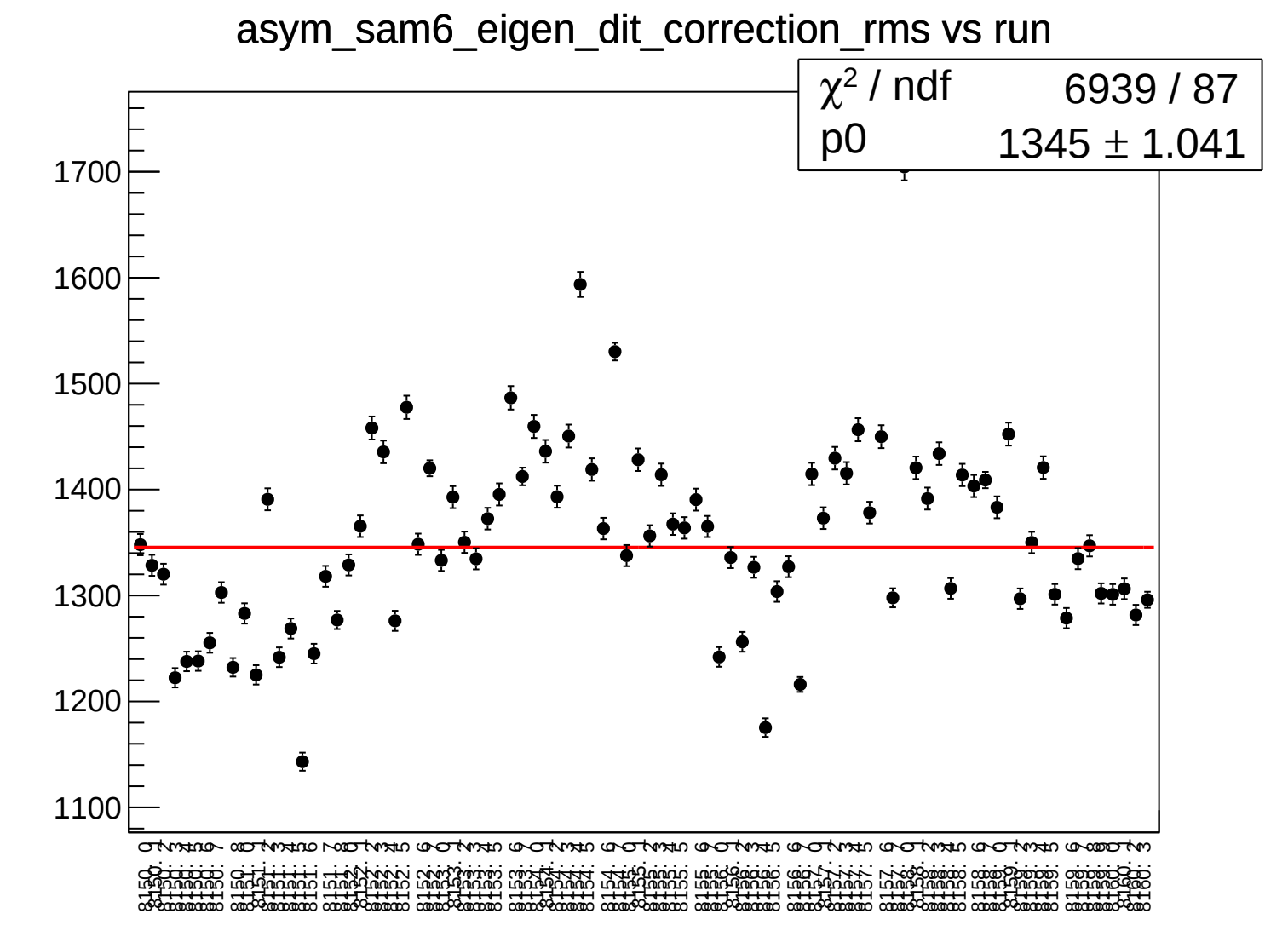

asym_sam6_dit_correction_rms vs run
χ² / ndf 6939 / 87
p0 1345 ± 1.041
1700
1600
1500
1400
1300
1200
1100

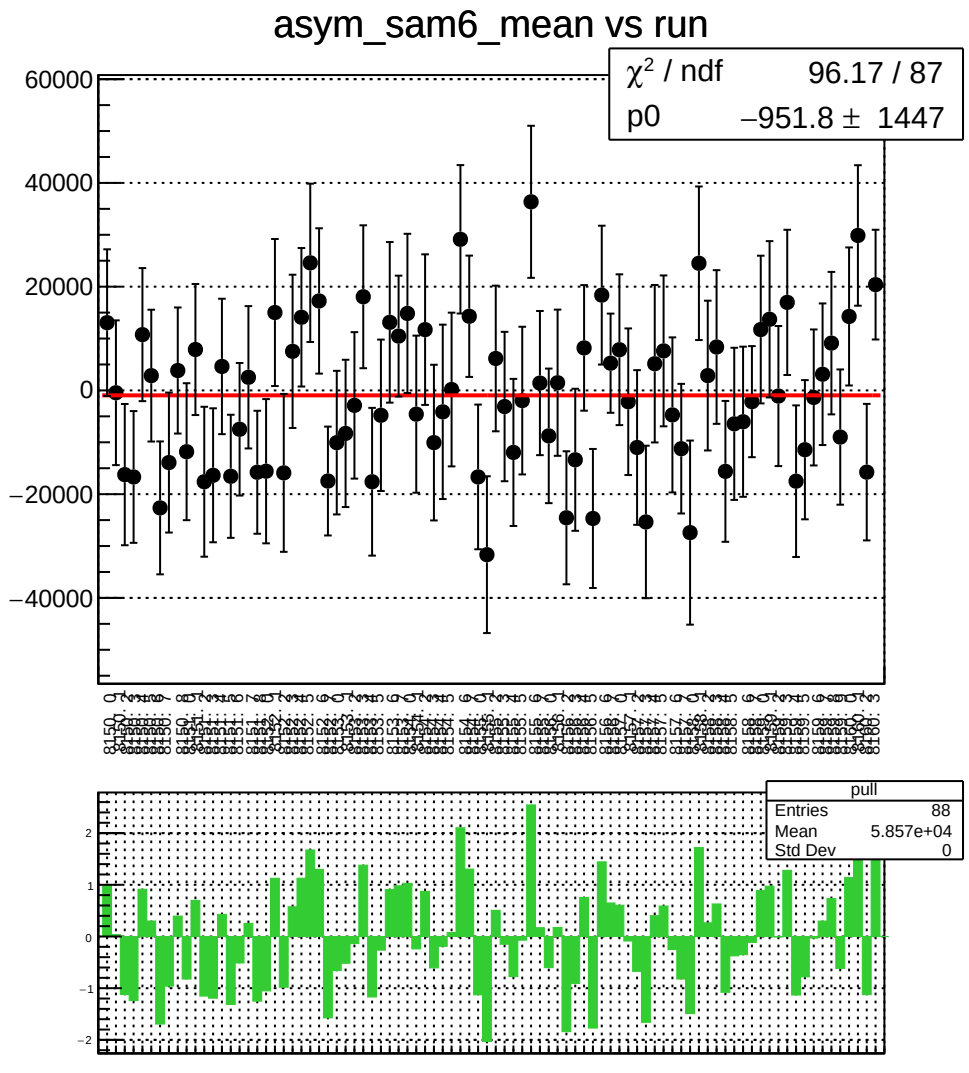

eigen_dit_asym_sam6_mean vs run
χ² / ndf 90.65 / 87
p0 157.1 ± 168.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 202
Std Dev 0
2
1
0
−1
−2

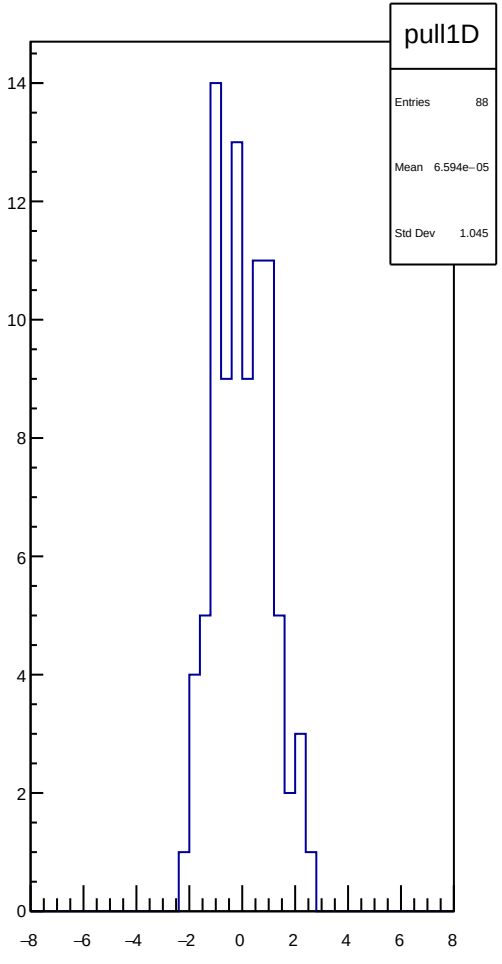

pull1D
Entries 88
Mean 0.006991
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

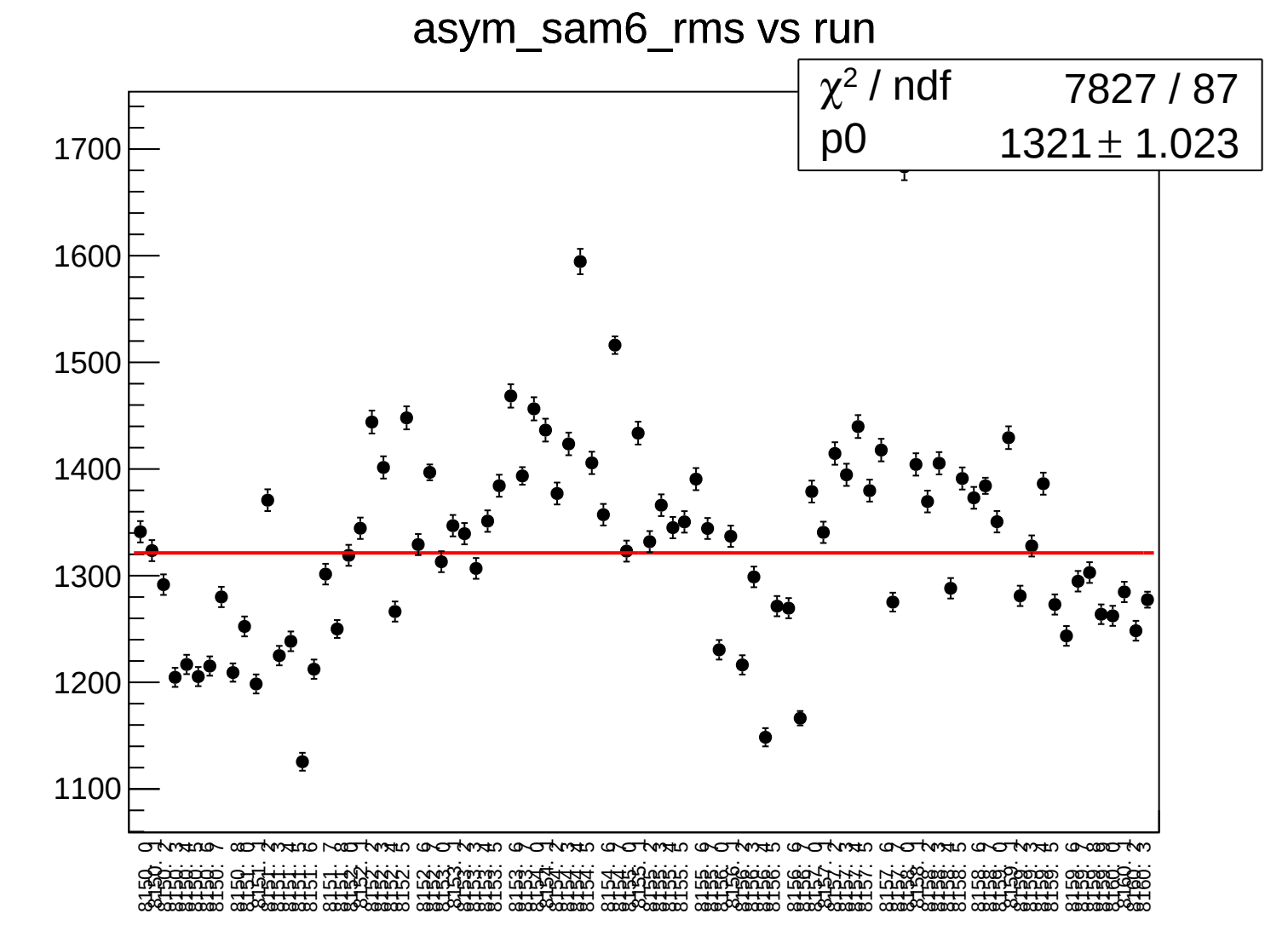

eigen_dit_asym_sam6_rms vs run
χ^2 / ndf 4010 / 87
p0 154.2 ± 0.1192
180
175
170
165
160
155
150
145
140

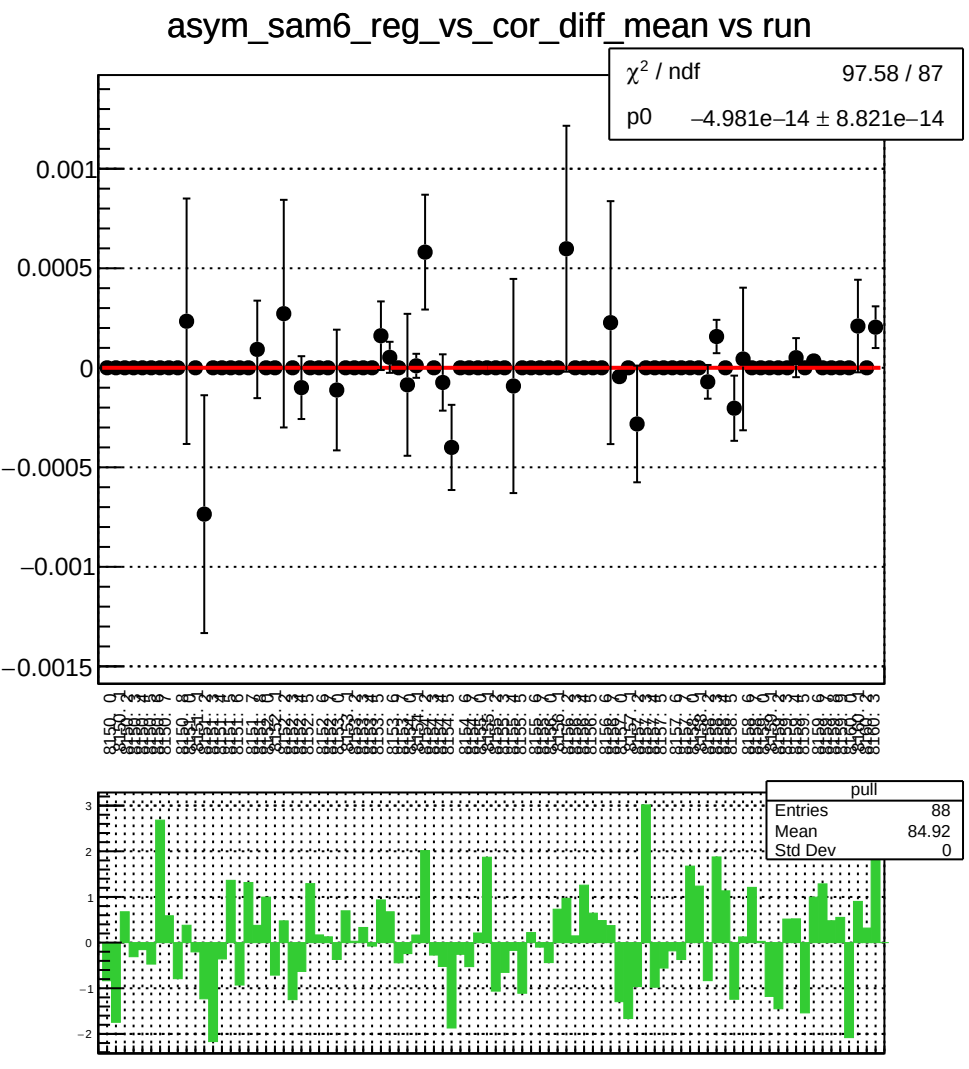

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 97.14 / 87
p0 1114 ± 1473
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −6776
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0005369
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

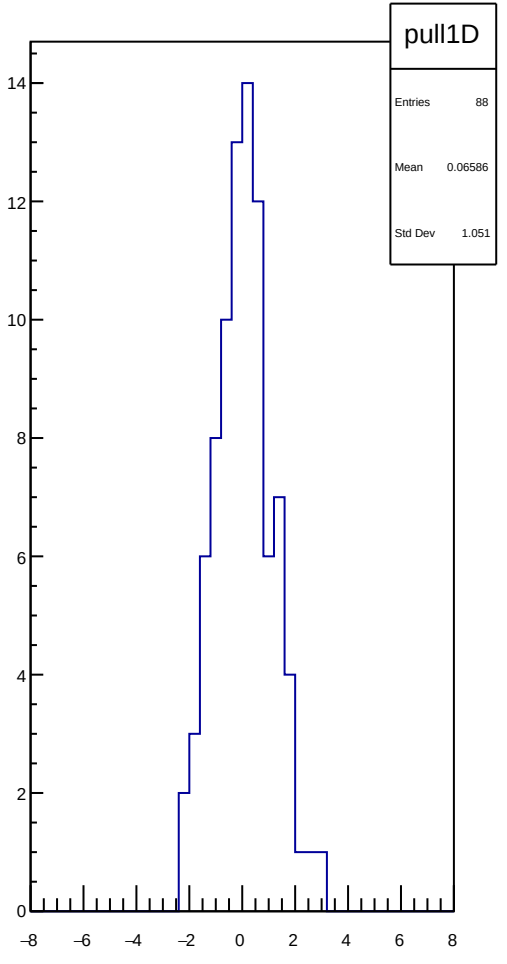

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 6939 / 87
p0 1345 ± 1.041
1700
1600
1500
1400
1300
1200
1100

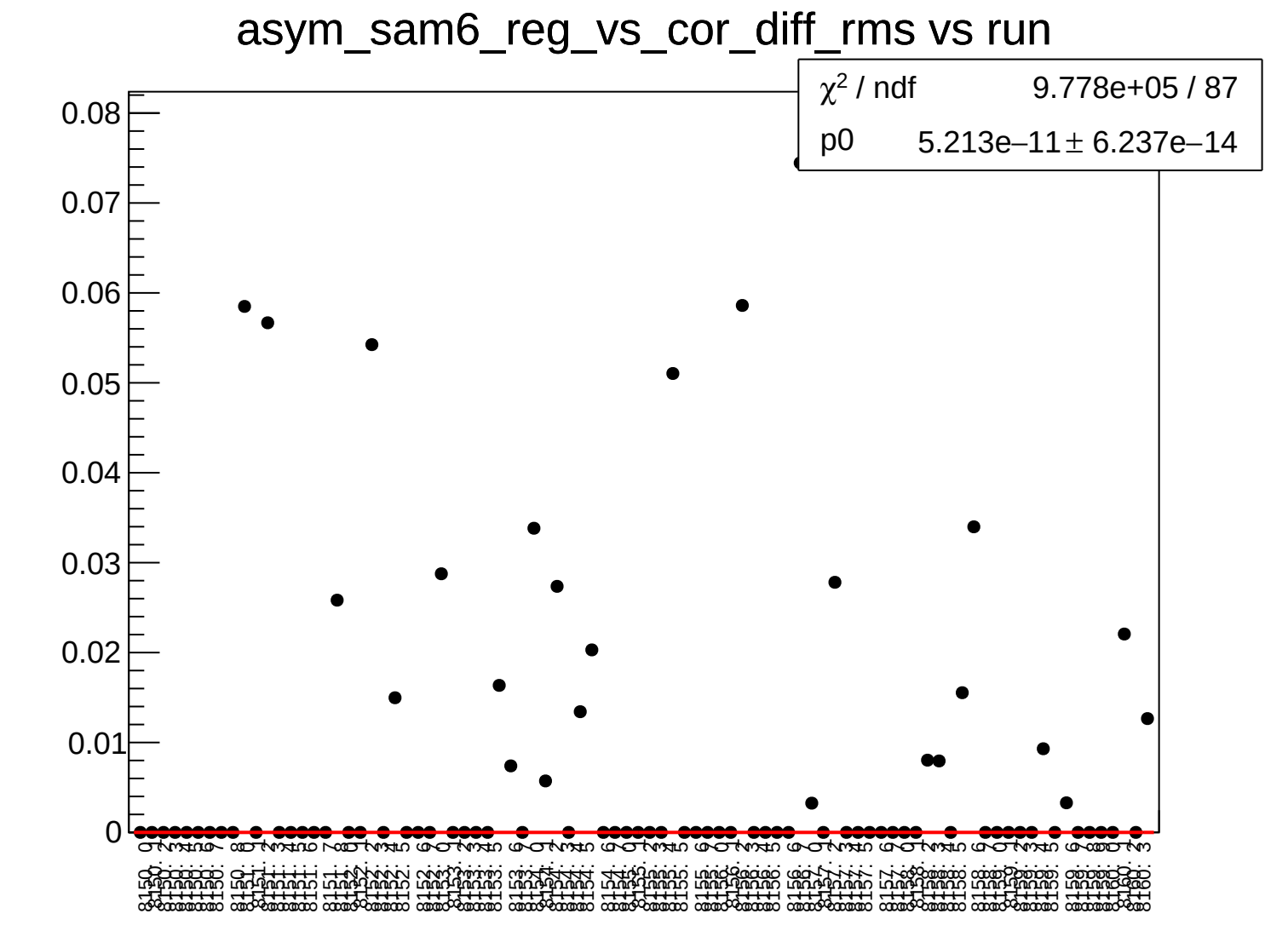

asym_sam6_mean vs run
χ² / ndf 96.17 / 87
p0 −951.8 ± 1447
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 5.857e+04
Std Dev 0
2
1
0
−1
−2

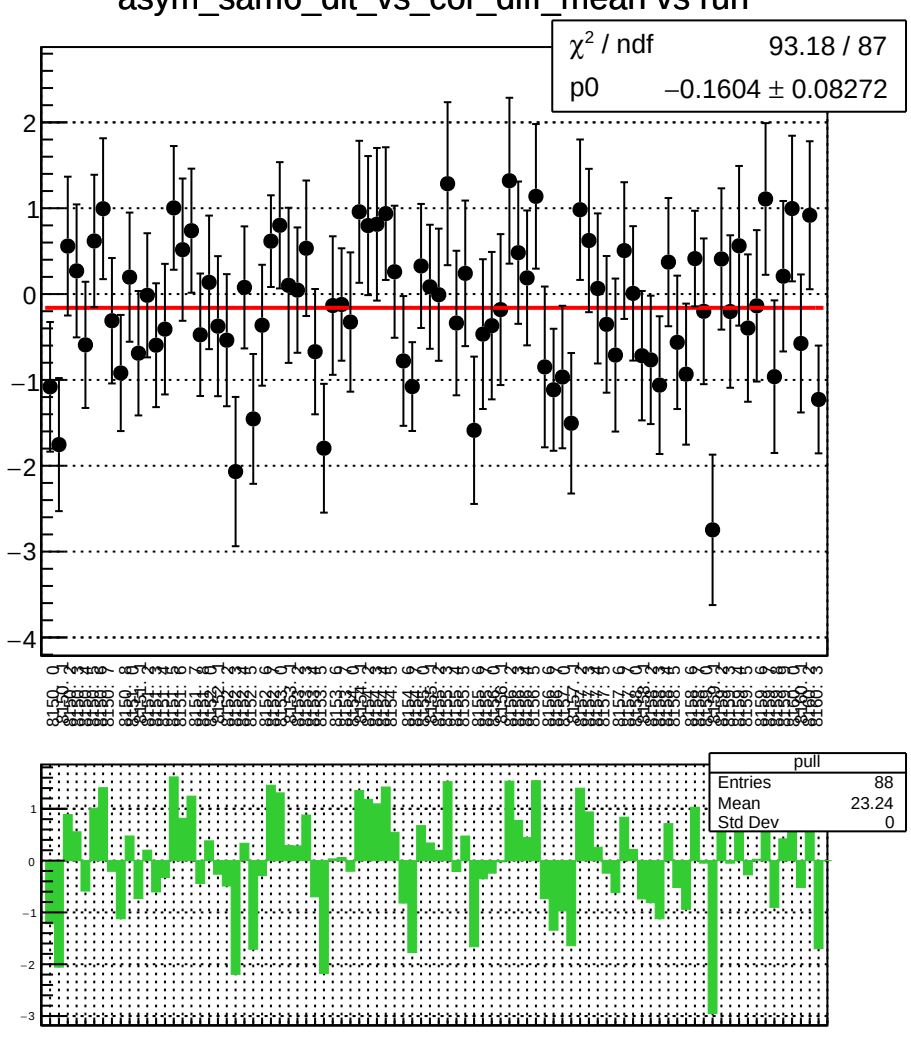

pull1D
Entries 88
Mean 6.594e−05
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

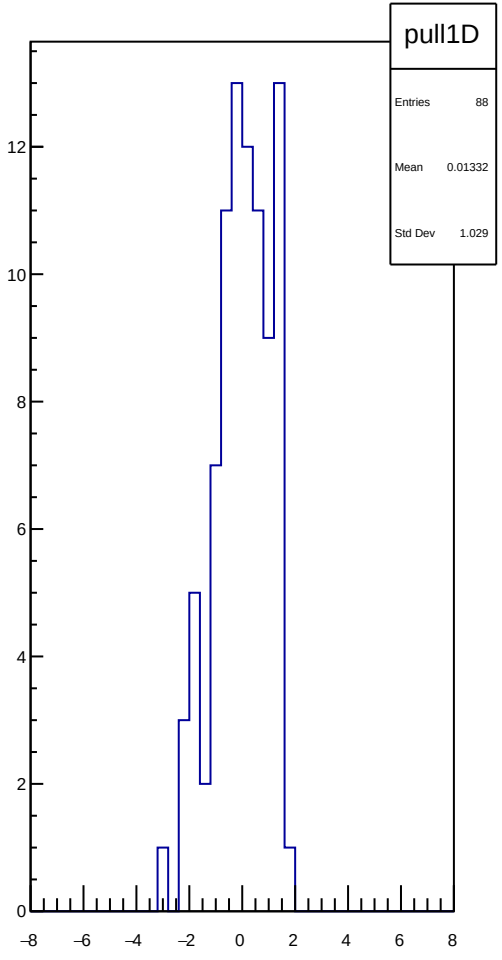

asym_sam6_rms vs run
χ² / ndf 7827 / 87
p0 1321 ± 1.023
1700
1600
1500
1400
1300
1200
1100

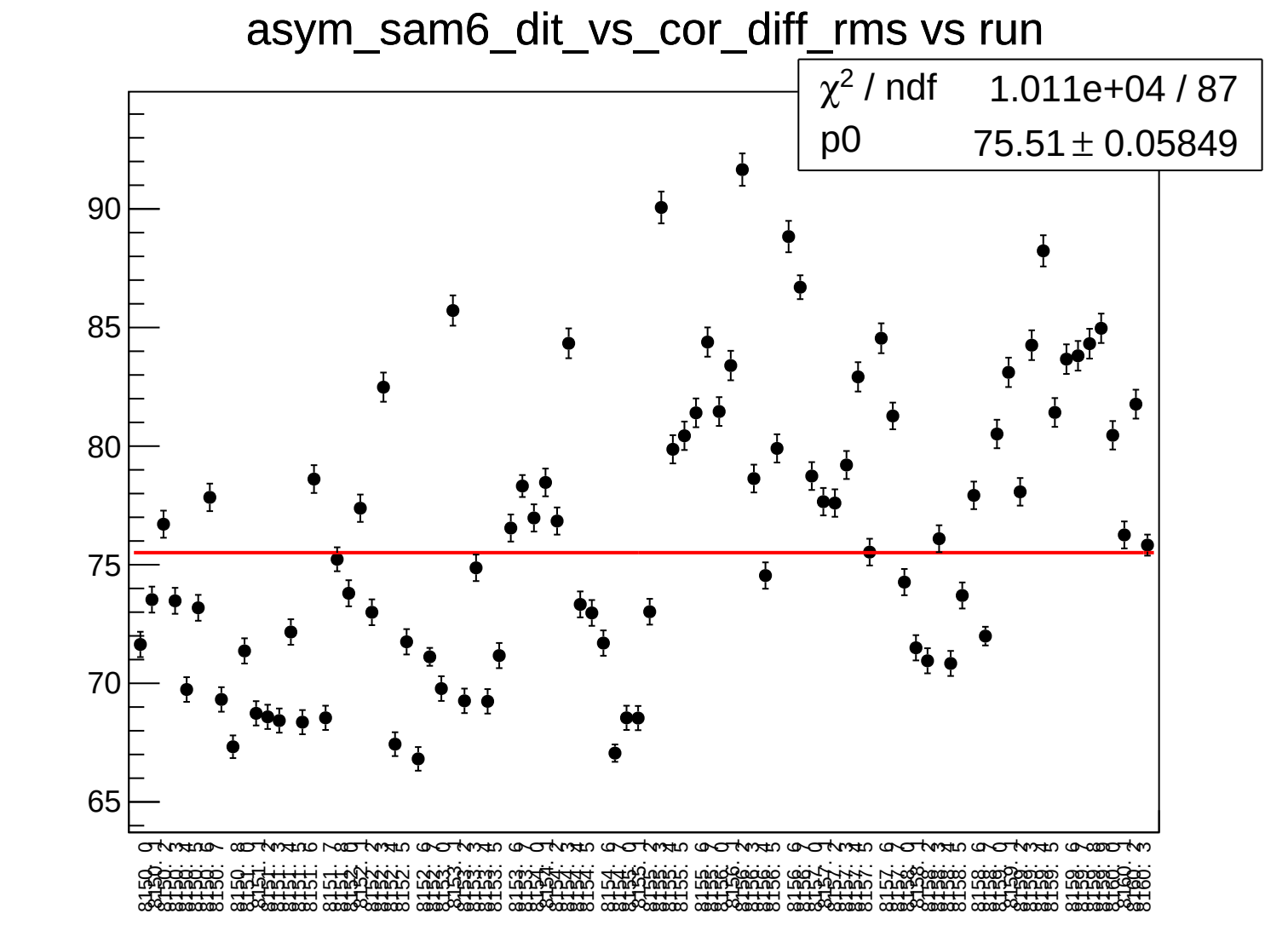

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 97.58 / 87
p0 −4.981e−14 ± 8.821e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 84.92
Std Dev 0
3
2
1
0
−1
−2

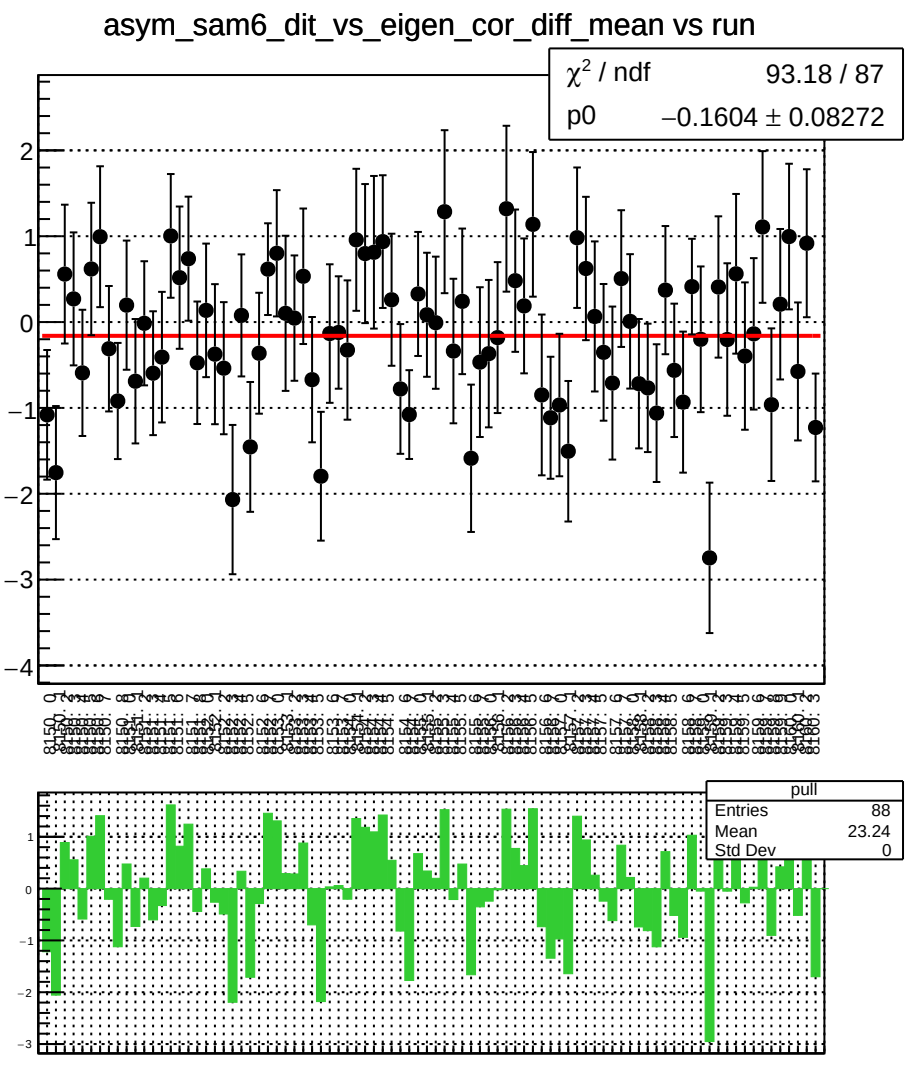

pull1D
Entries 88
Mean 0.06586
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

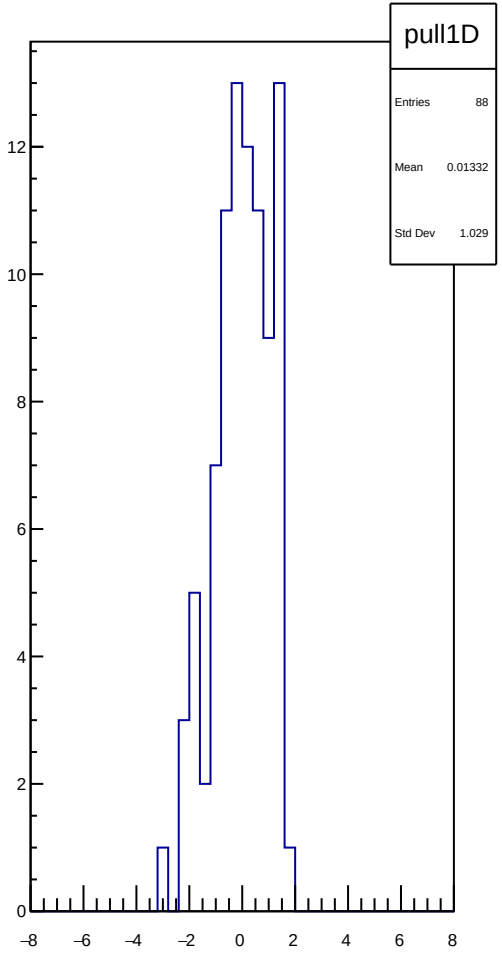

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 9.778e+05 / 87
p0 5.213e−11 ± 6.237e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

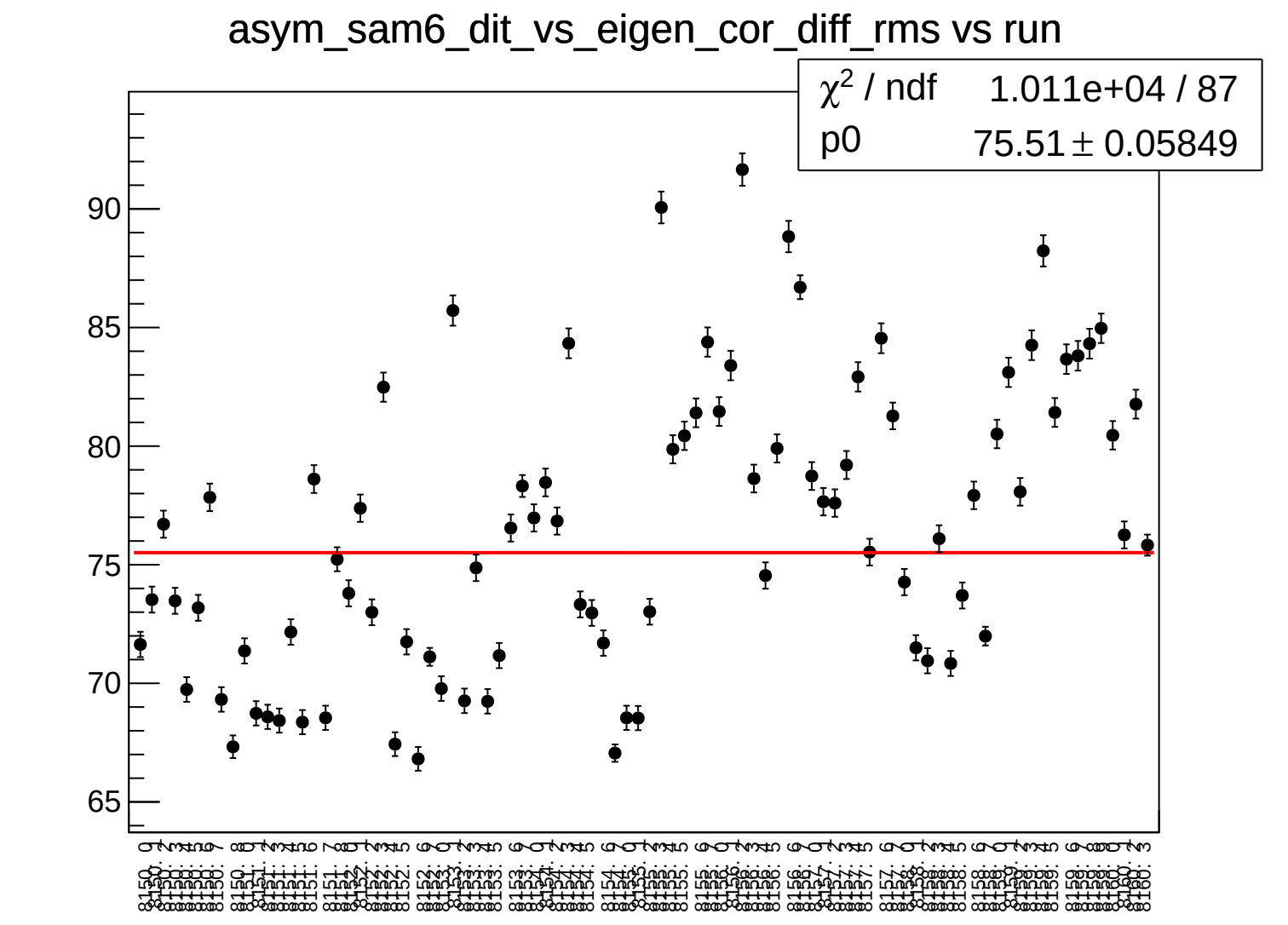

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 93.18 / 87
p0 −0.1604 ± 0.08272
pull
Entries 88
Mean 23.24
Std Dev 0

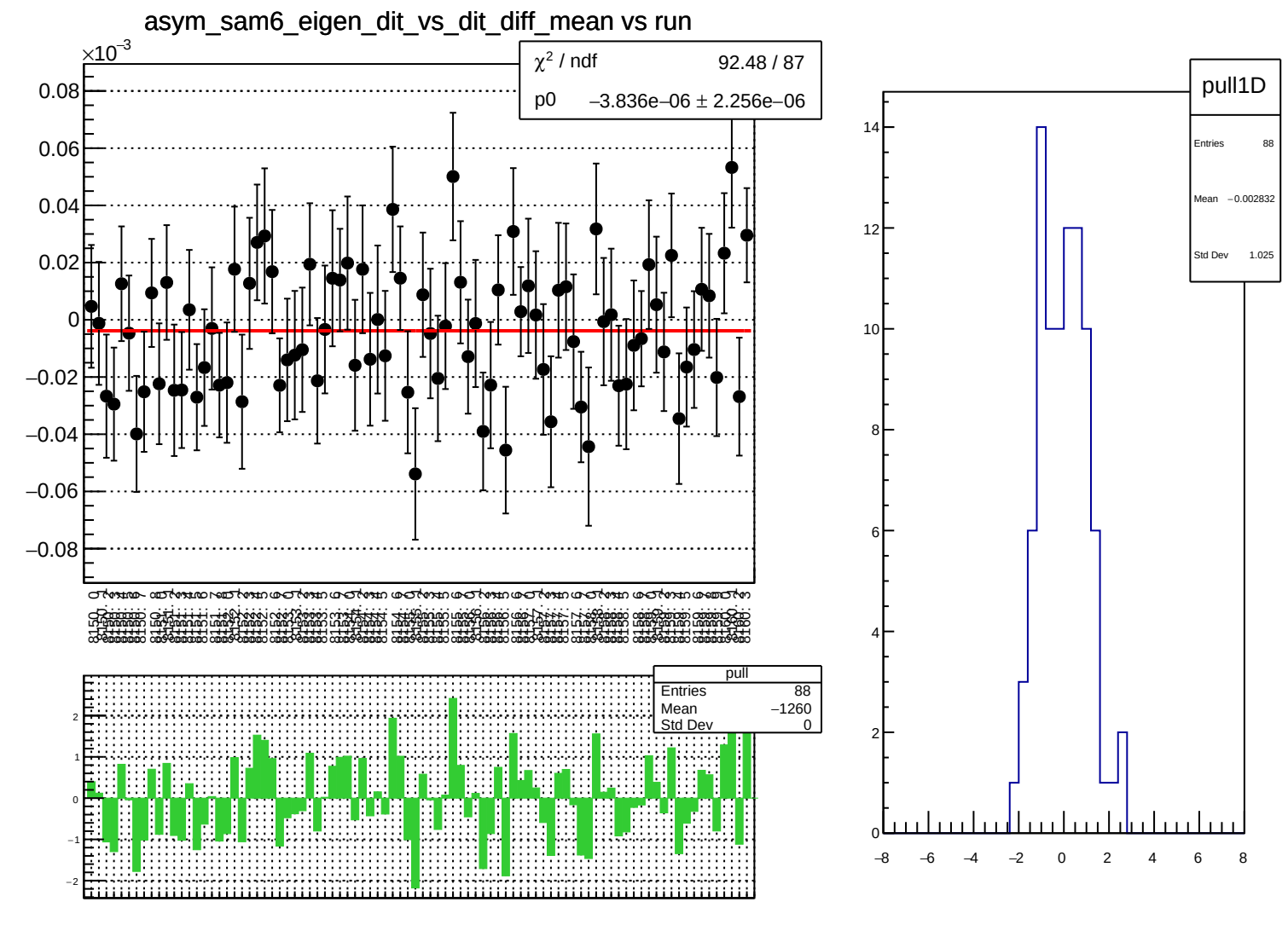

pull1D
Entries 88
Mean 0.01332
Std Dev 1.029

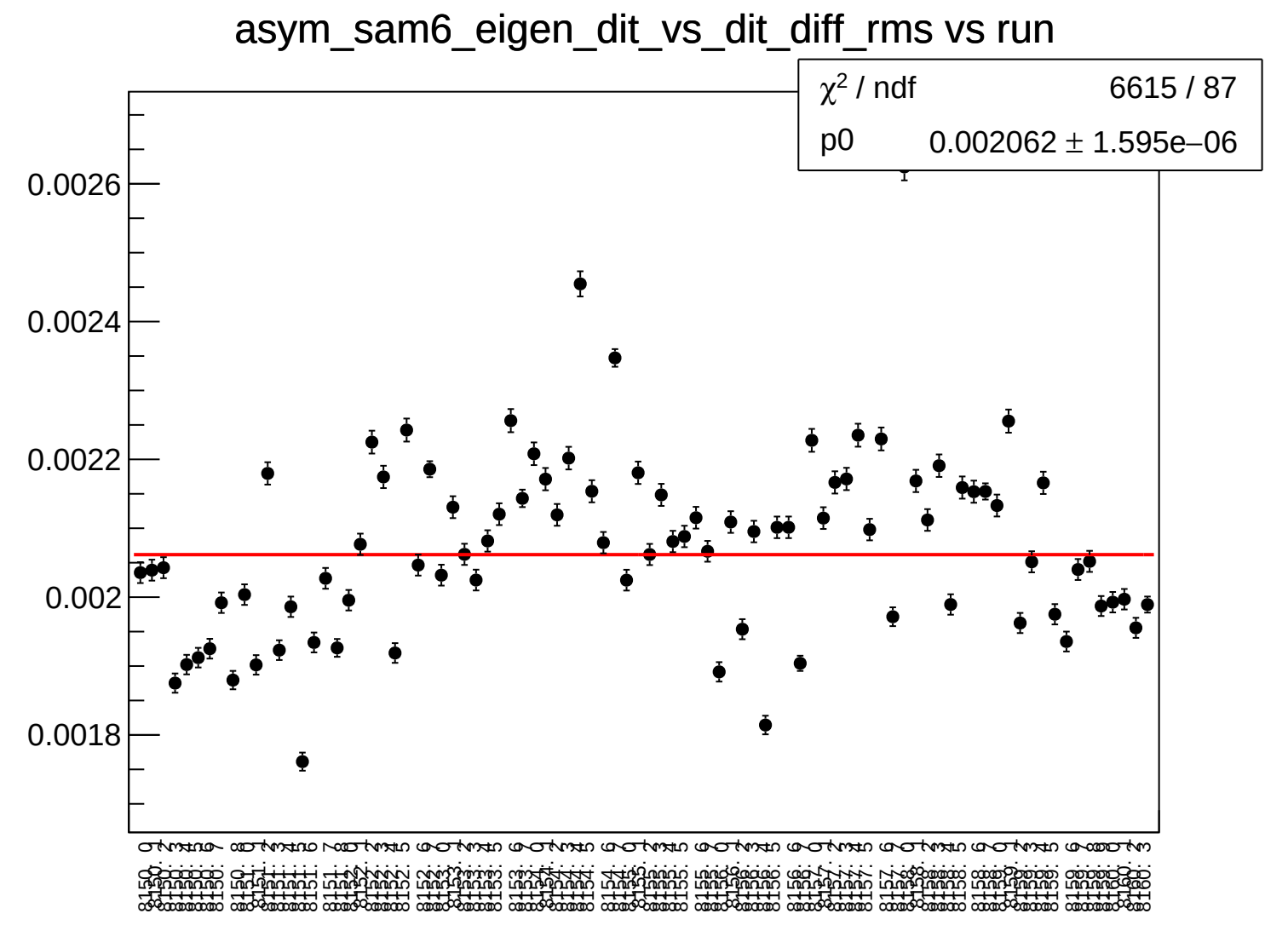

asym_sam6_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.011e+04 / 87
p0 75.51 ± 0.05849
90
85
80
75
70
65

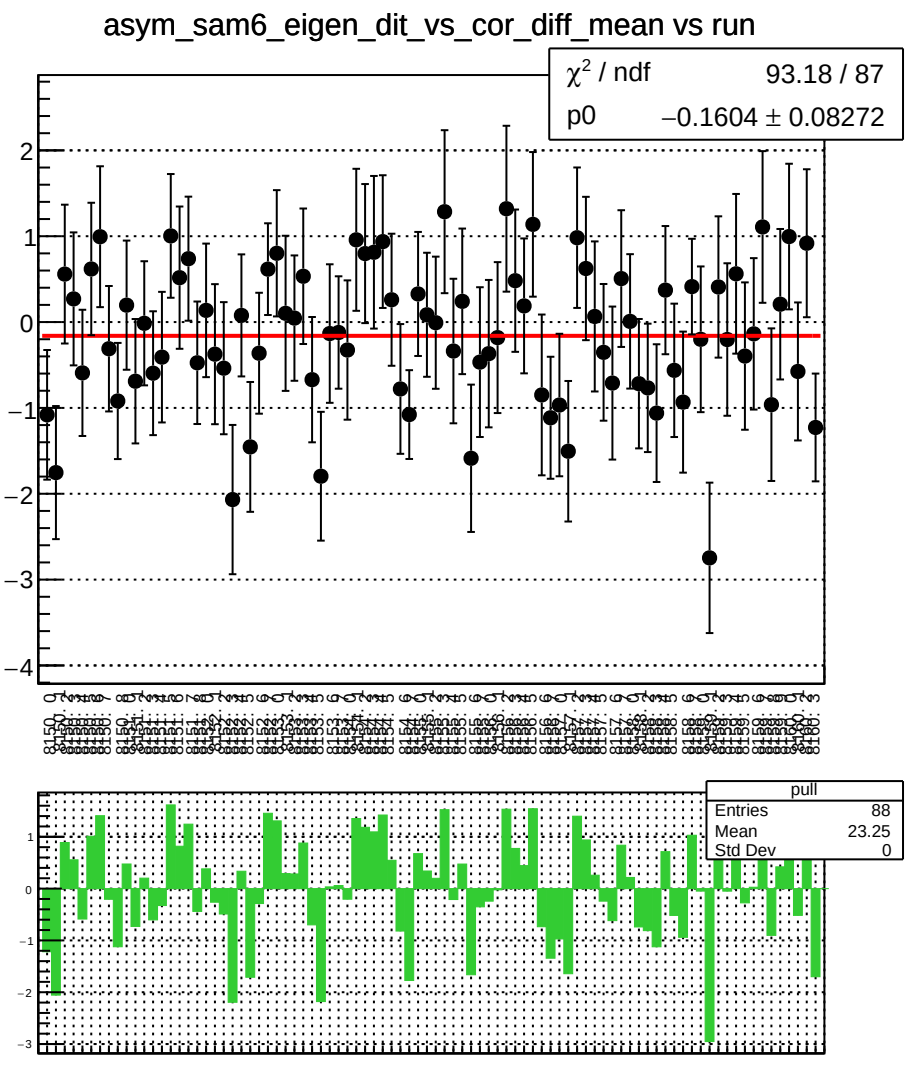

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.18 / 87
p0 −0.1604 ± 0.08272
pull
Entries 88
Mean 23.24
Std Dev 0

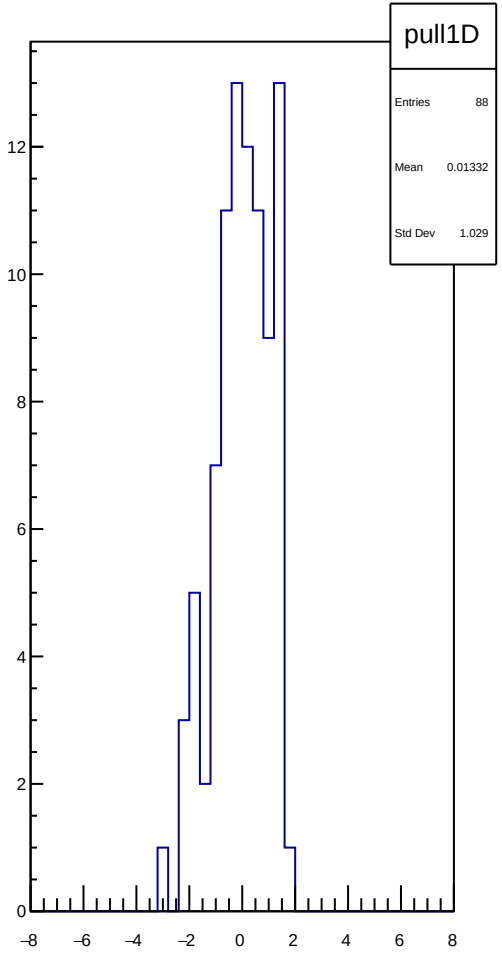

pull1D
Entries 88
Mean 0.01332
Std Dev 1.029

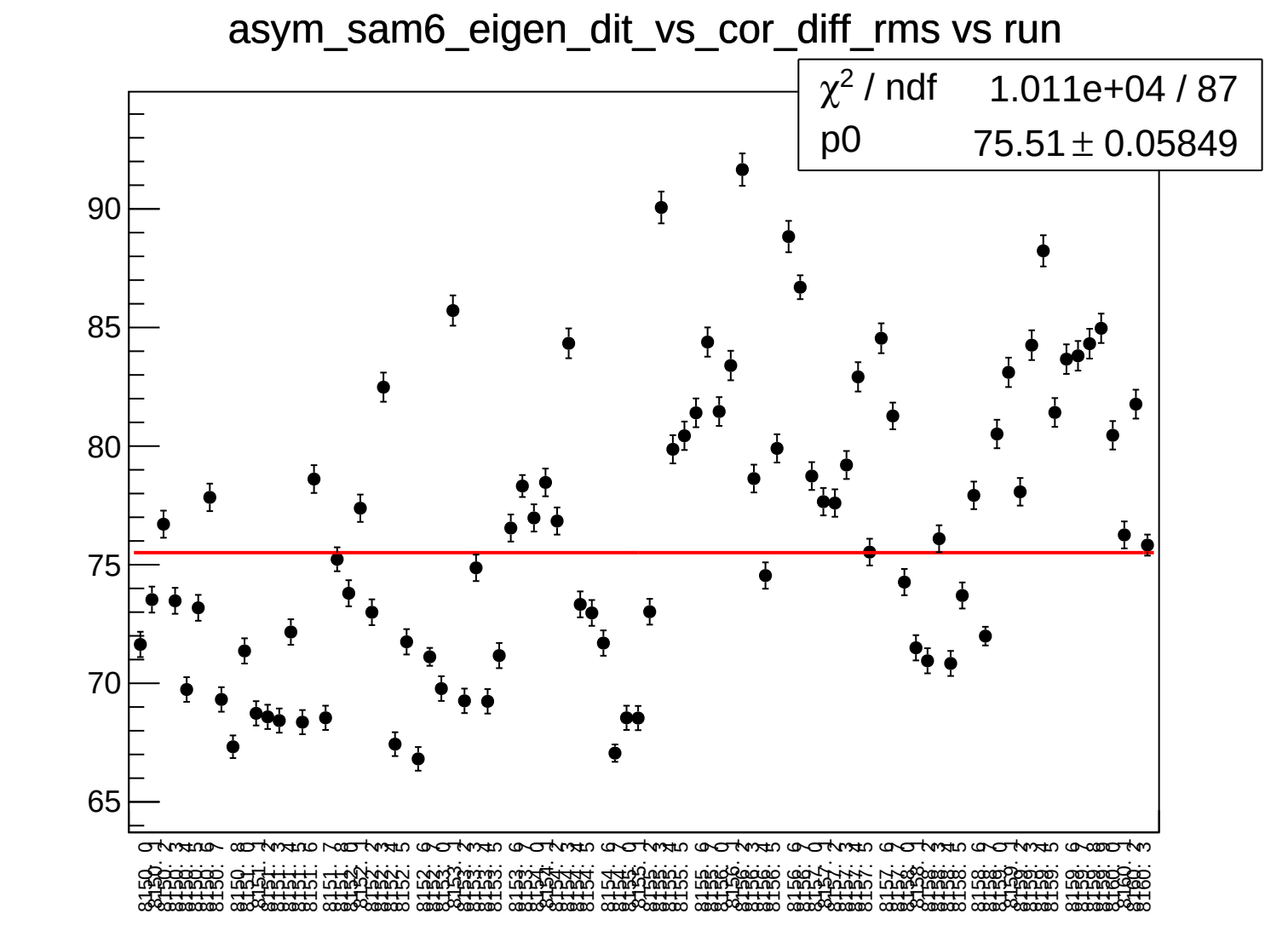

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.011e+04 / 87
p0 75.51 ± 0.05849
90
85
80
75
70
65

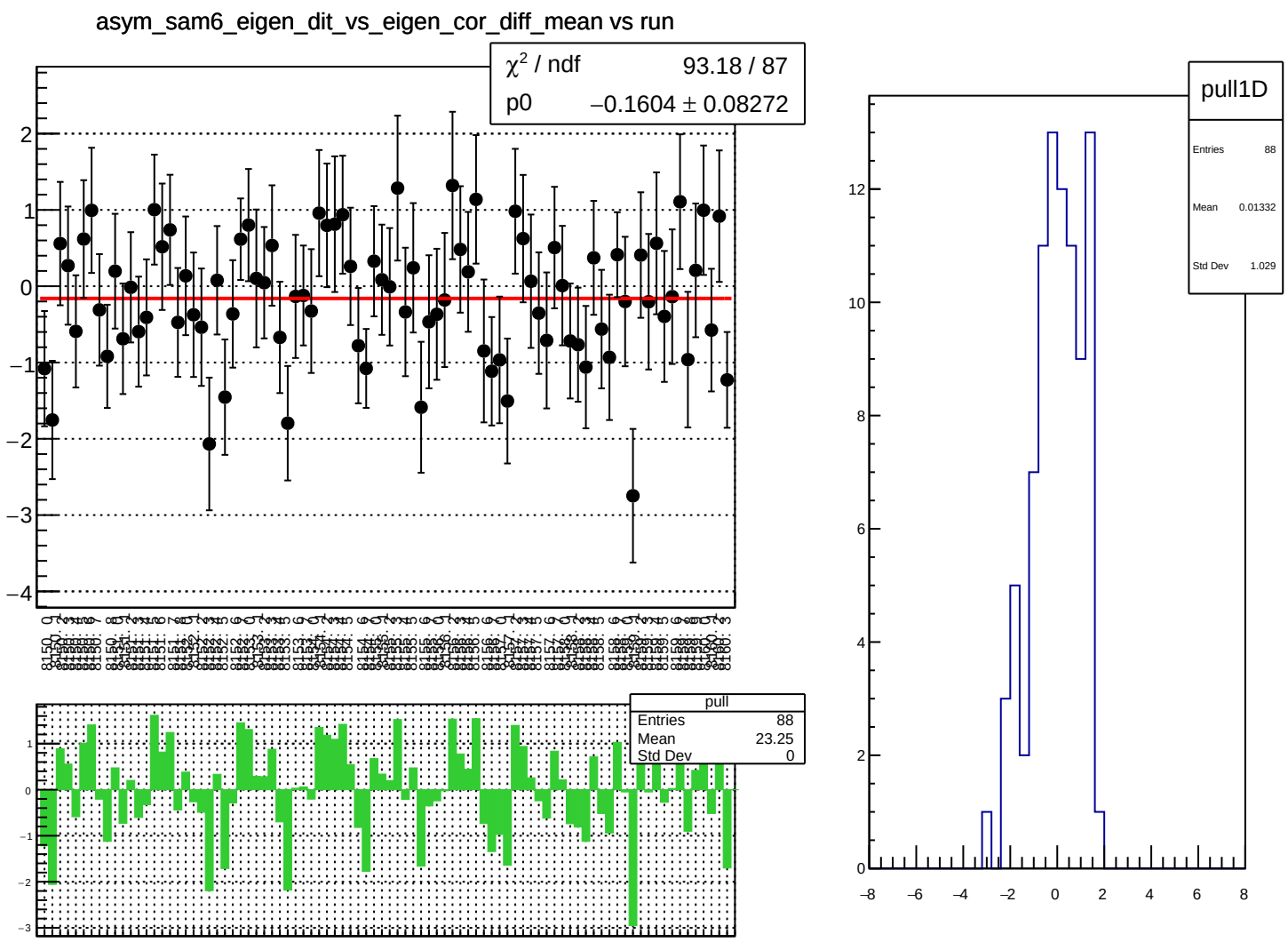

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.48 / 87
p0 −3.836e−06 ± 2.256e−06
pull
Entries 88
Mean −1260
Std Dev 0
pull1D
Entries 88
Mean −0.002832
Std Dev 1.025

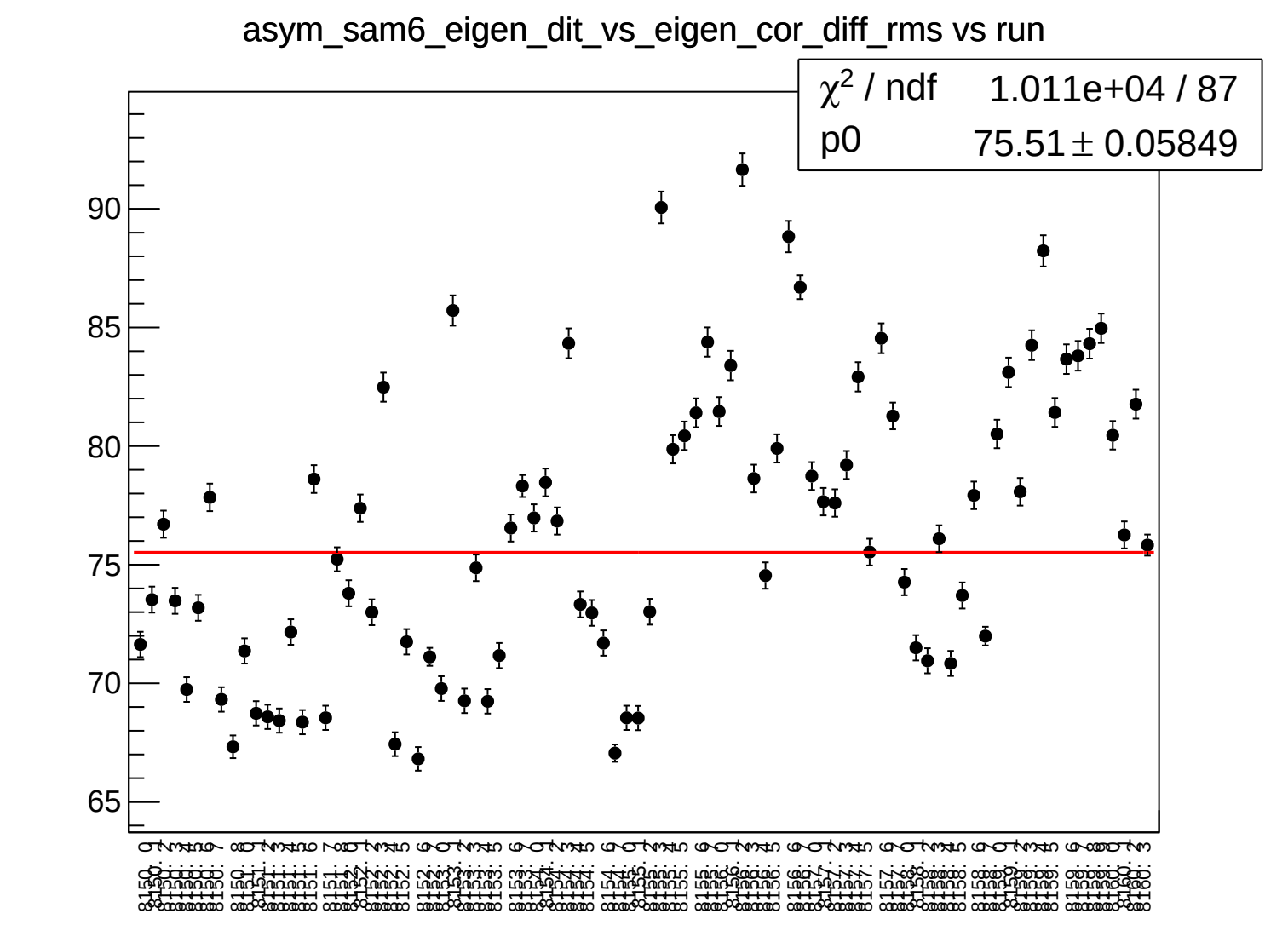

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6615 / 87
p0 0.002062 ± 1.595e−06
0.0026
0.0024
0.0022
0.002
0.0018

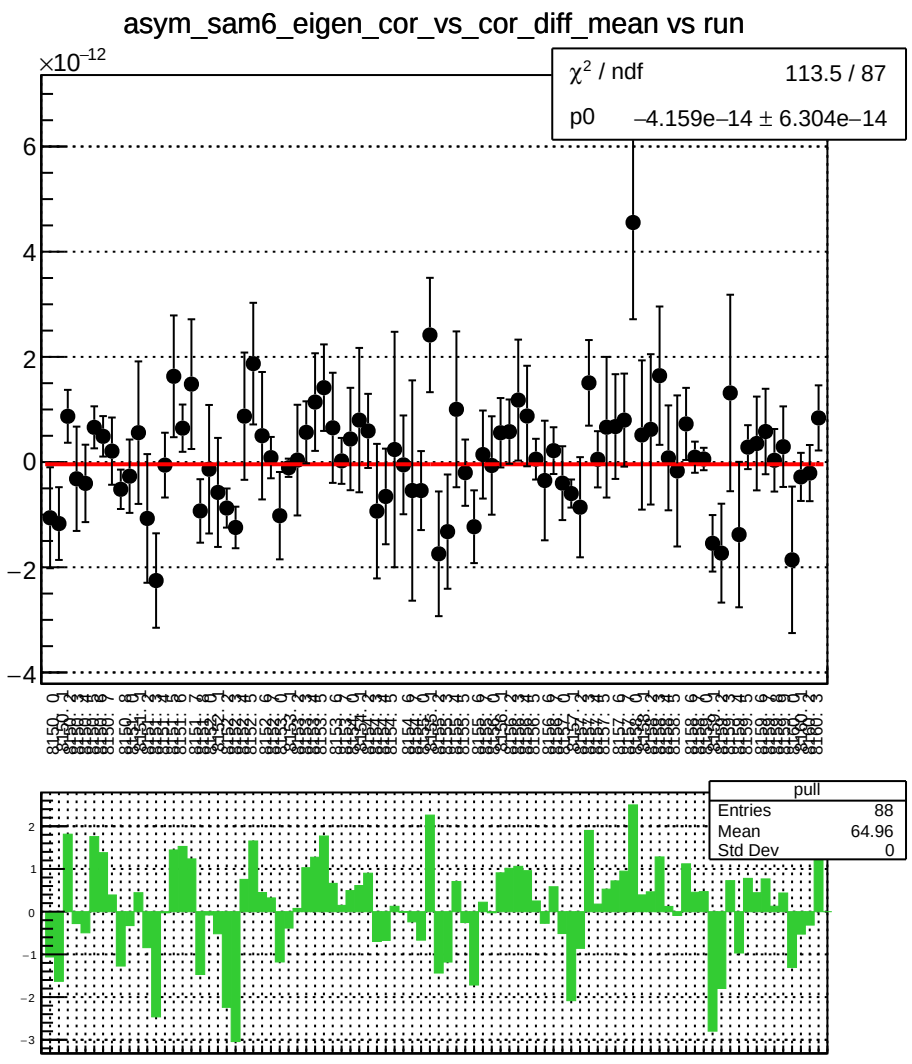

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.18 / 87
p0 −0.1604 ± 0.08272
pull
Entries 88
Mean 23.25
Std Dev 0

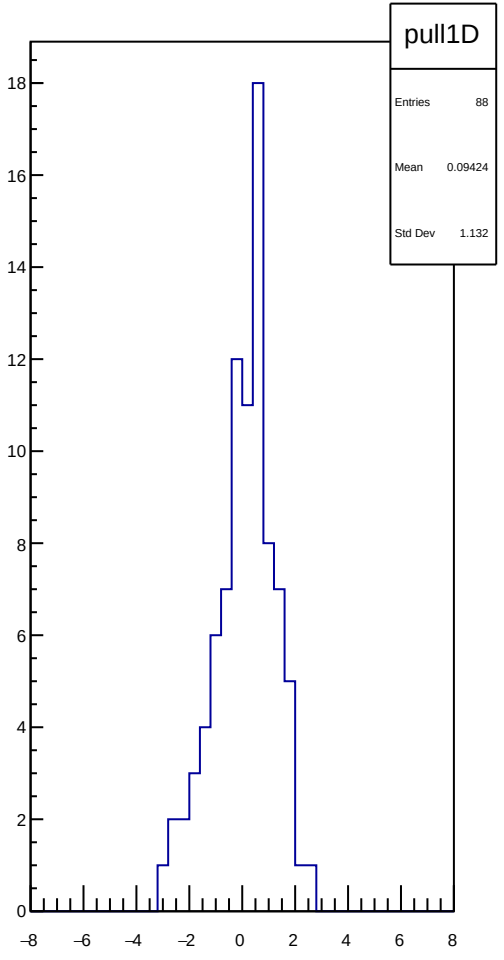

pull1D
Entries 88
Mean 0.01332
Std Dev 1.029

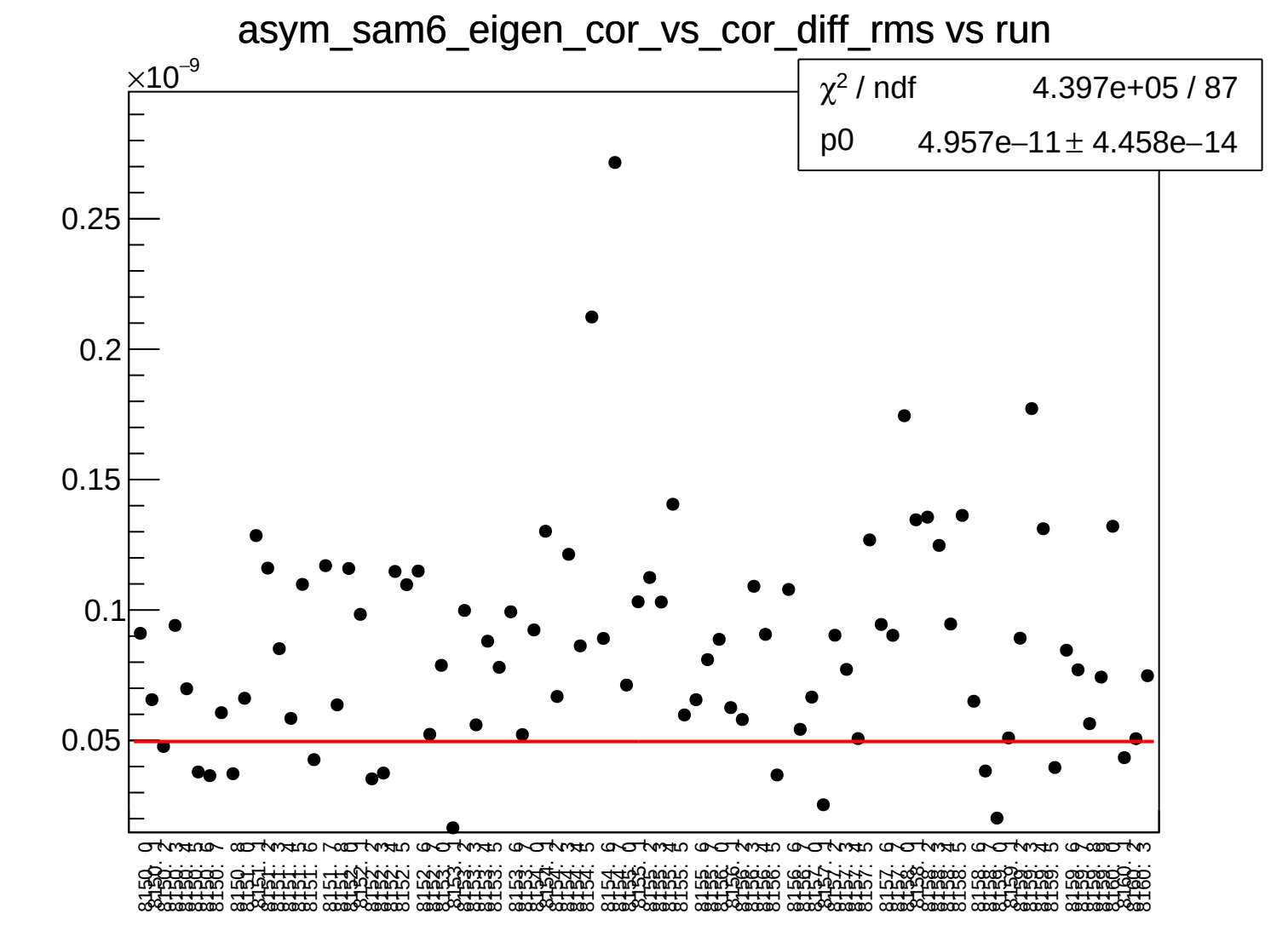

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.011e+04 / 87
p0 75.51 ± 0.05849
90
85
80
75
70
65

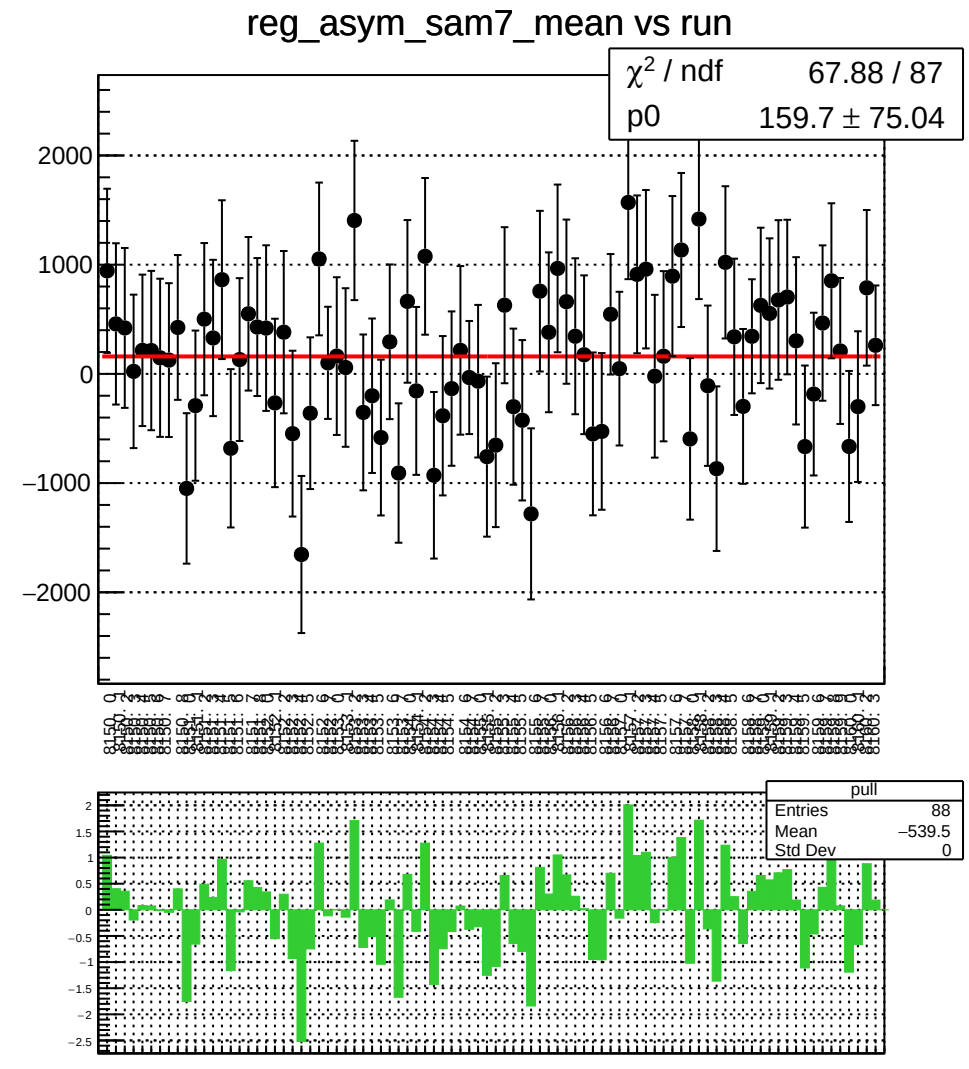

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.18 / 87
p0 −0.1604 ± 0.08272
pull
Entries 88
Mean 23.25
Std Dev 0
pull1D
Entries 88
Mean 0.01332
Std Dev 1.029

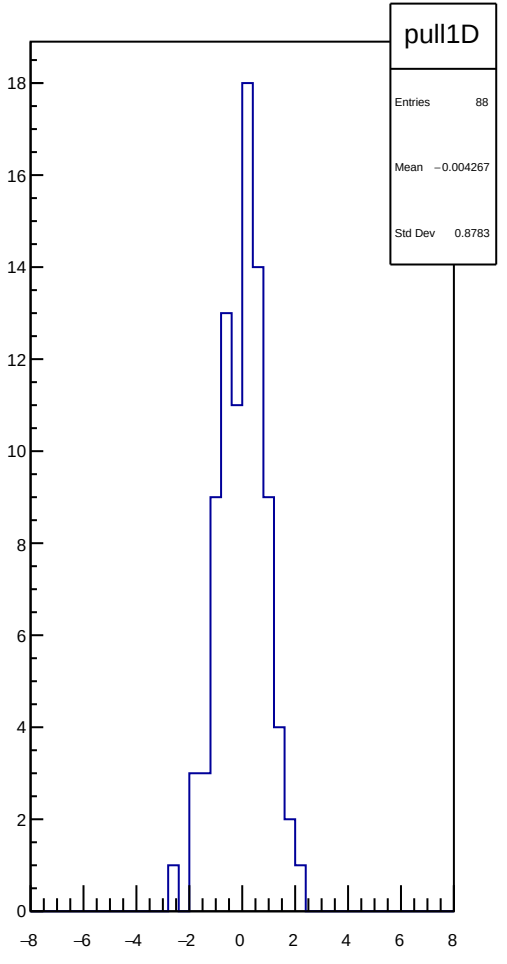

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.011e+04 / 87
p0 75.51 ± 0.05849
90
85
80
75
70
65

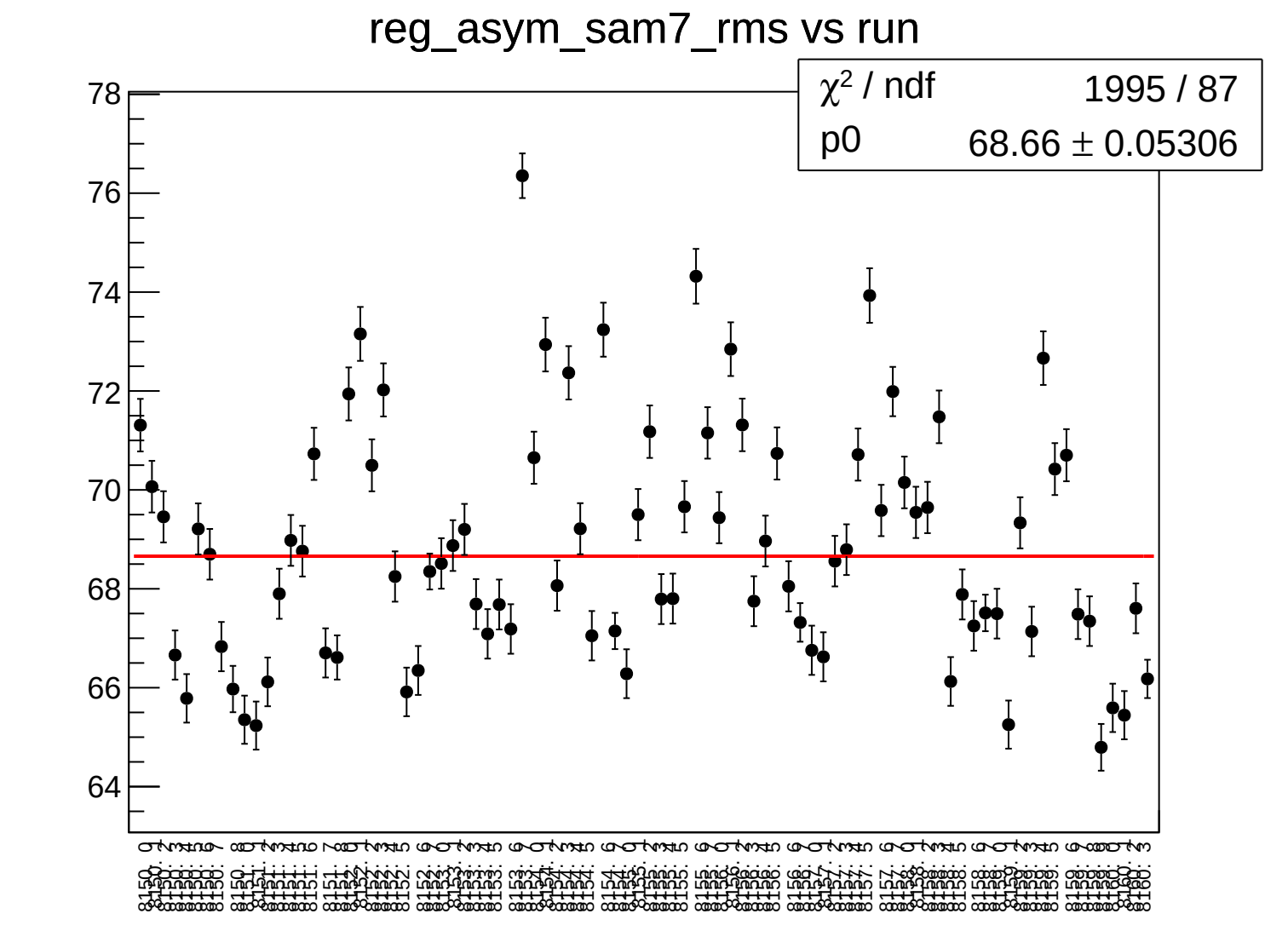

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.5 / 87
p0 −4.159e−14 ± 6.304e−14
pull
Entries 88
Mean 64.96
Std Dev 0

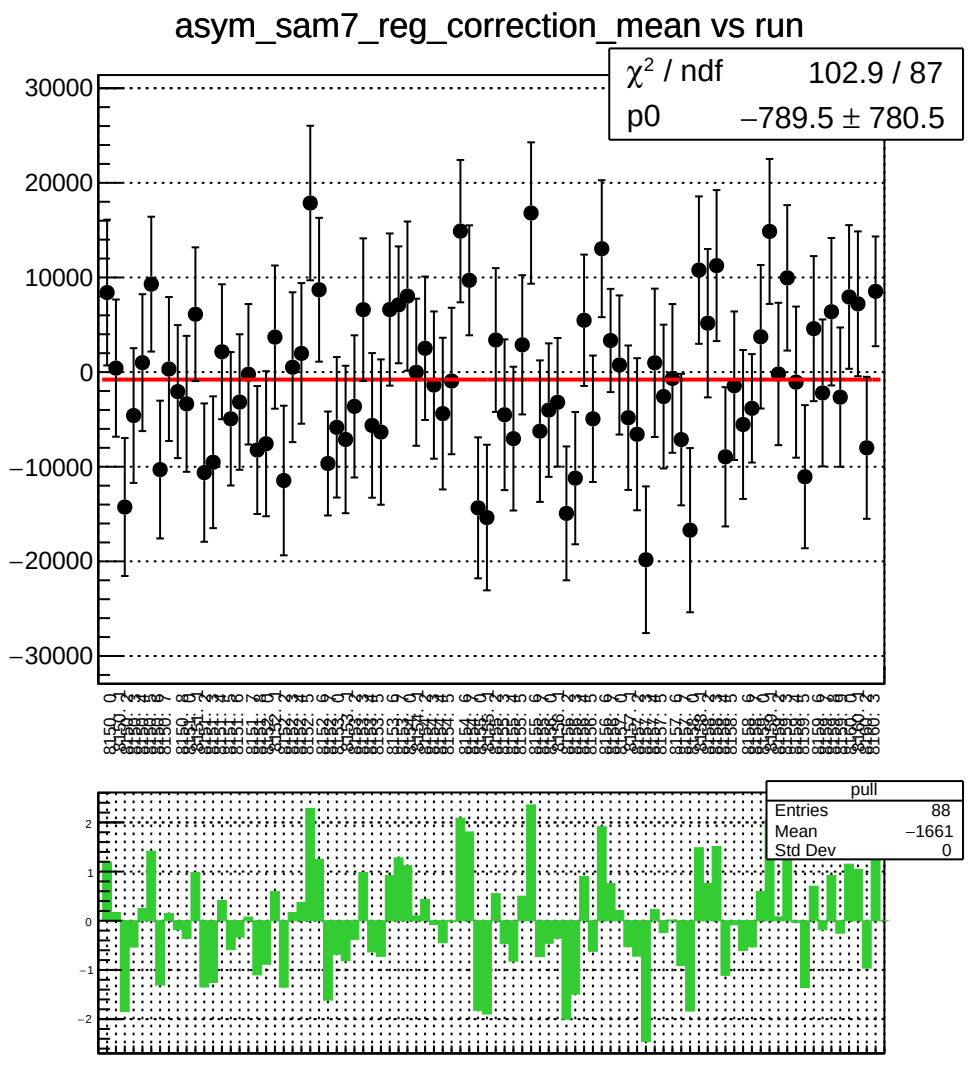

pull1D
Entries 88
Mean 0.09424
Std Dev 1.132

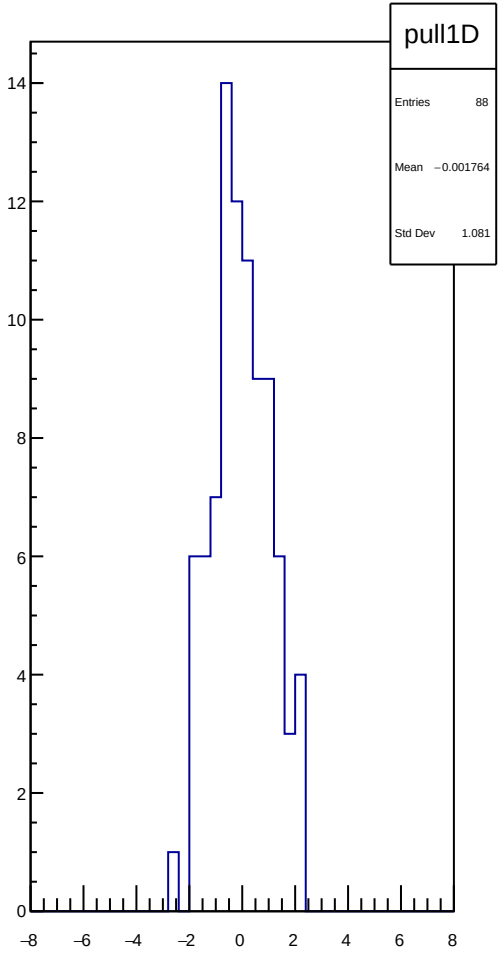

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.397e+05 / 87
p0 4.957e−11 ± 4.458e−14
0.25
0.2
0.15
0.1
0.05

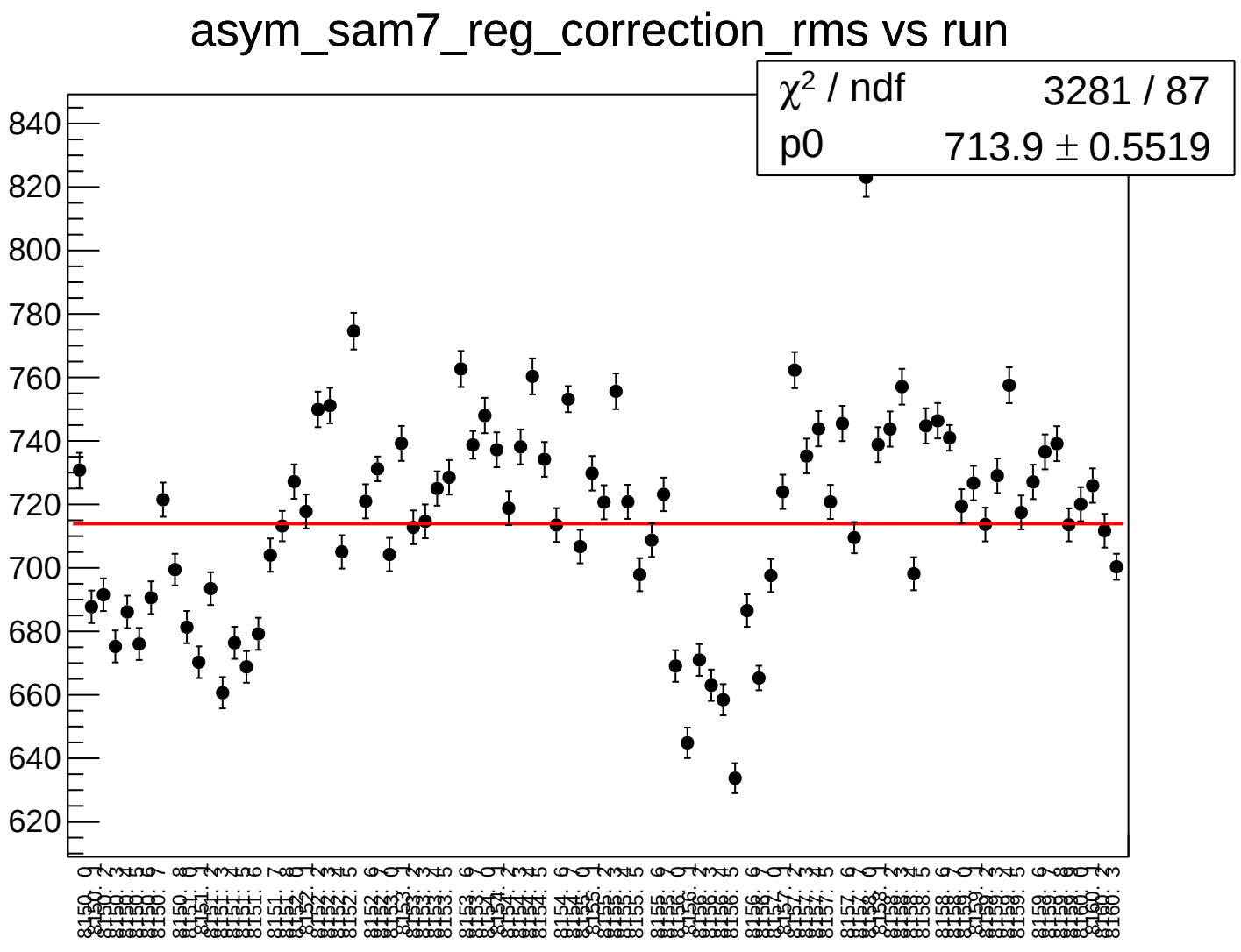

reg_asym_sam7_mean vs run
χ² / ndf 67.88 / 87
p0 159.7 ± 75.04
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −539.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

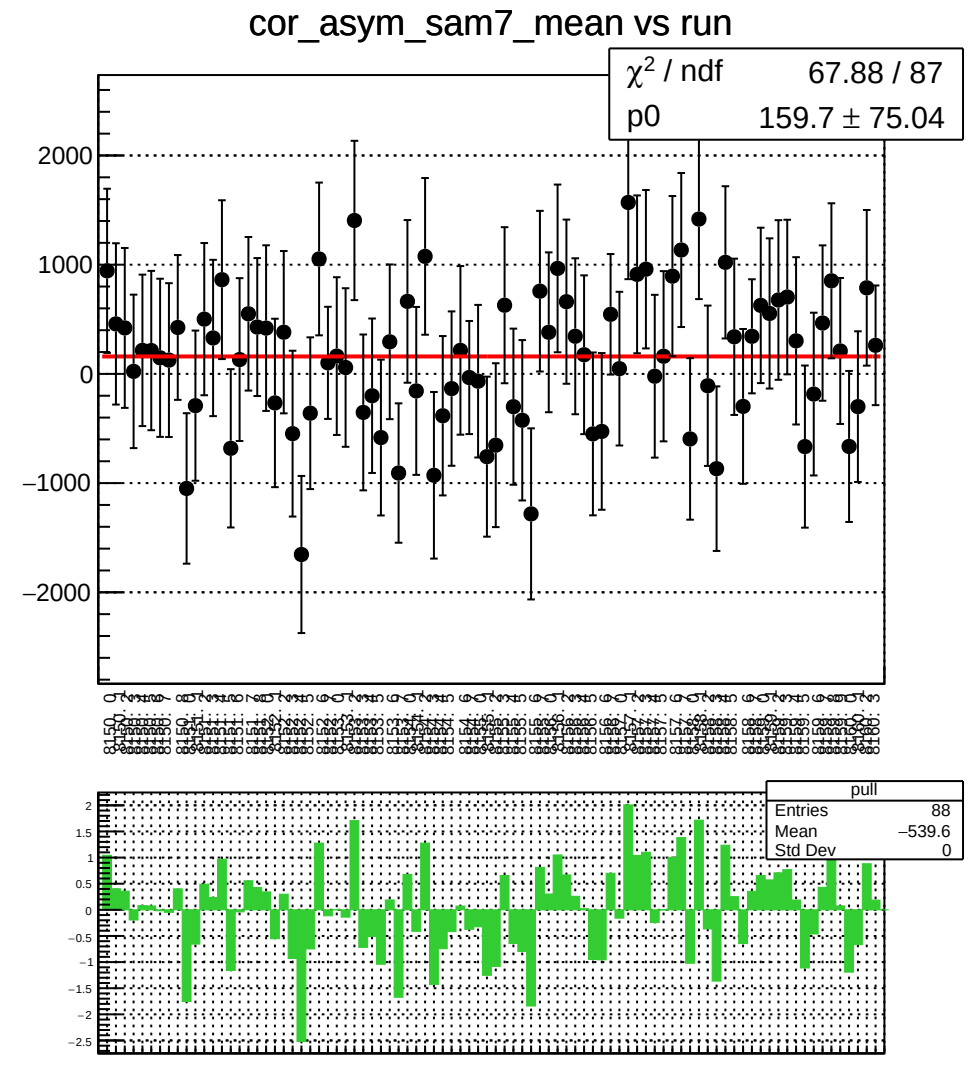

pull1D
Entries 88
Mean −0.004267
Std Dev 0.8783
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

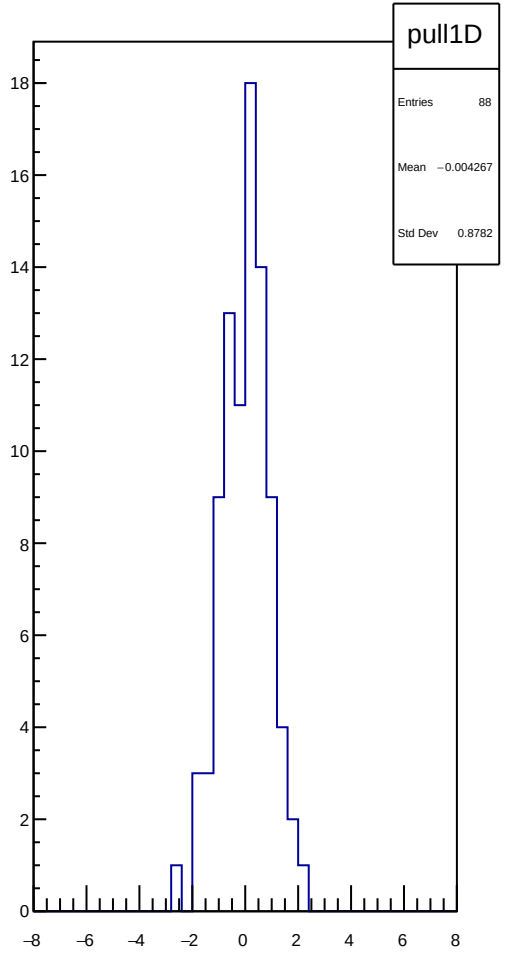

reg_asym_sam7_rms vs run
χ^2 / ndf 1995 / 87
p0 68.66 ± 0.05306
78
76
74
72
70
68
66
64

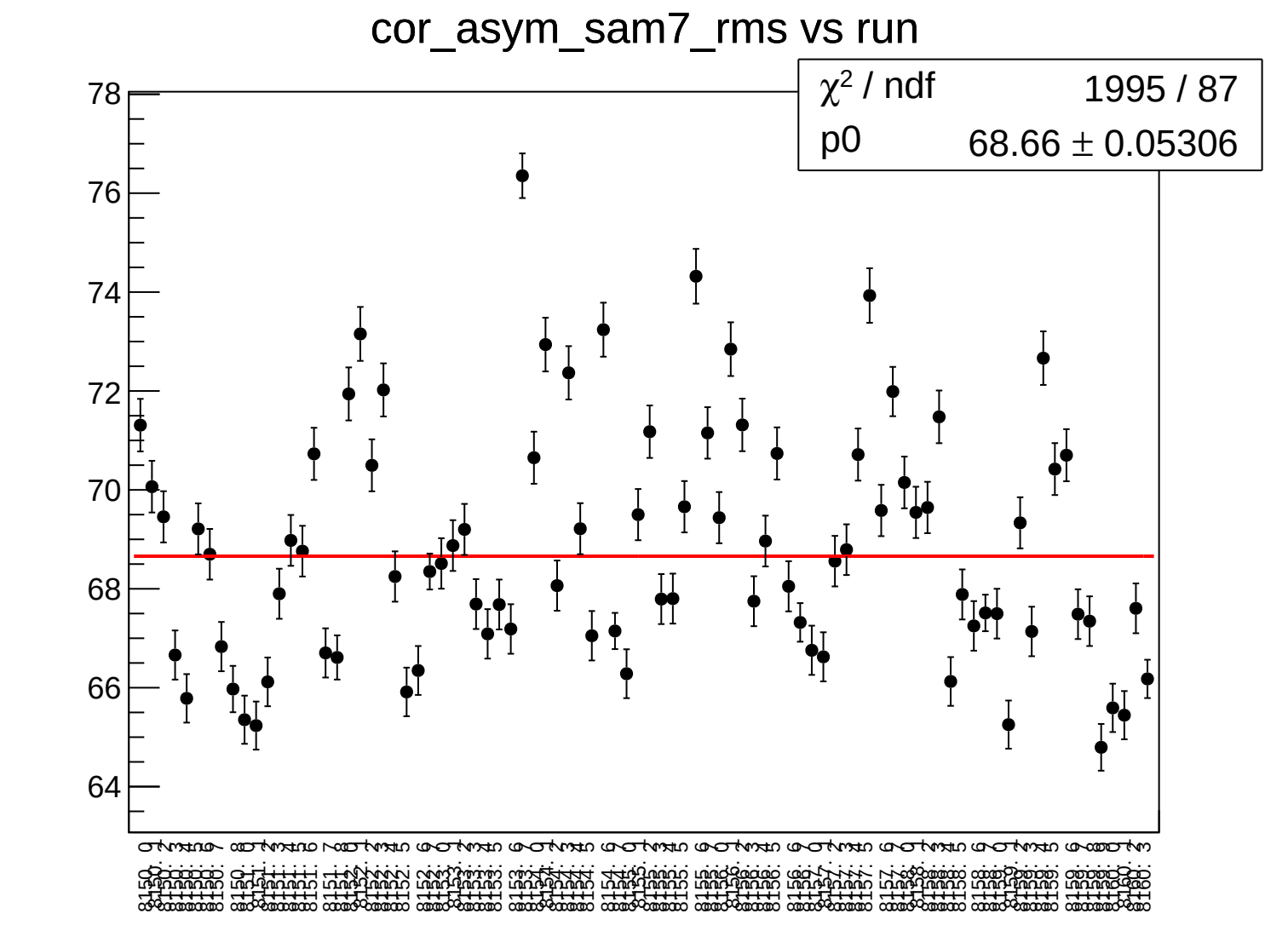

asym_sam7_reg_correction_mean vs run
χ² / ndf 102.9 / 87
p0 −789.5 ± 780.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1661
Std Dev 0
2
1
0
−1
−2

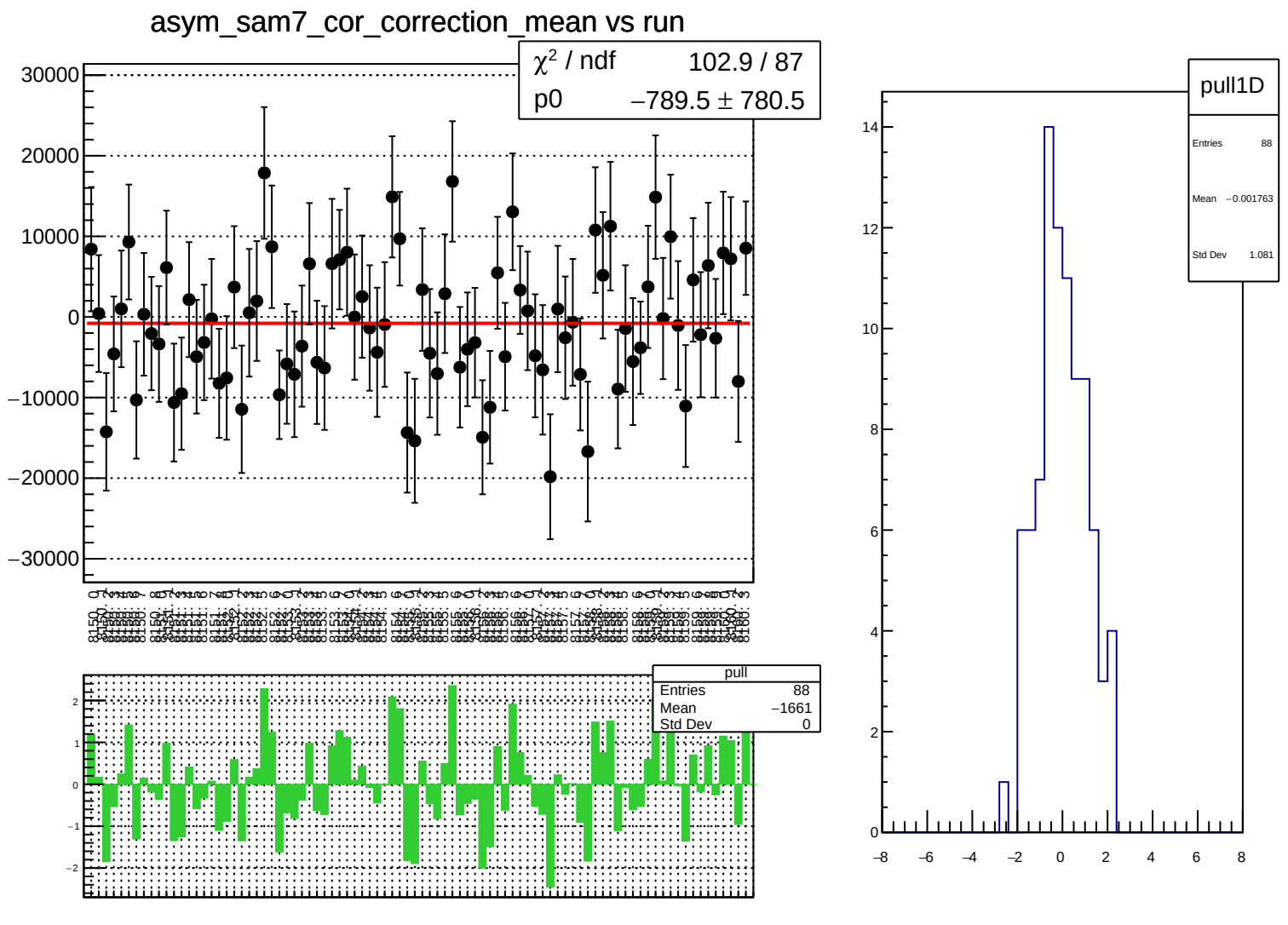

pull1D
Entries 88
Mean −0.001764
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

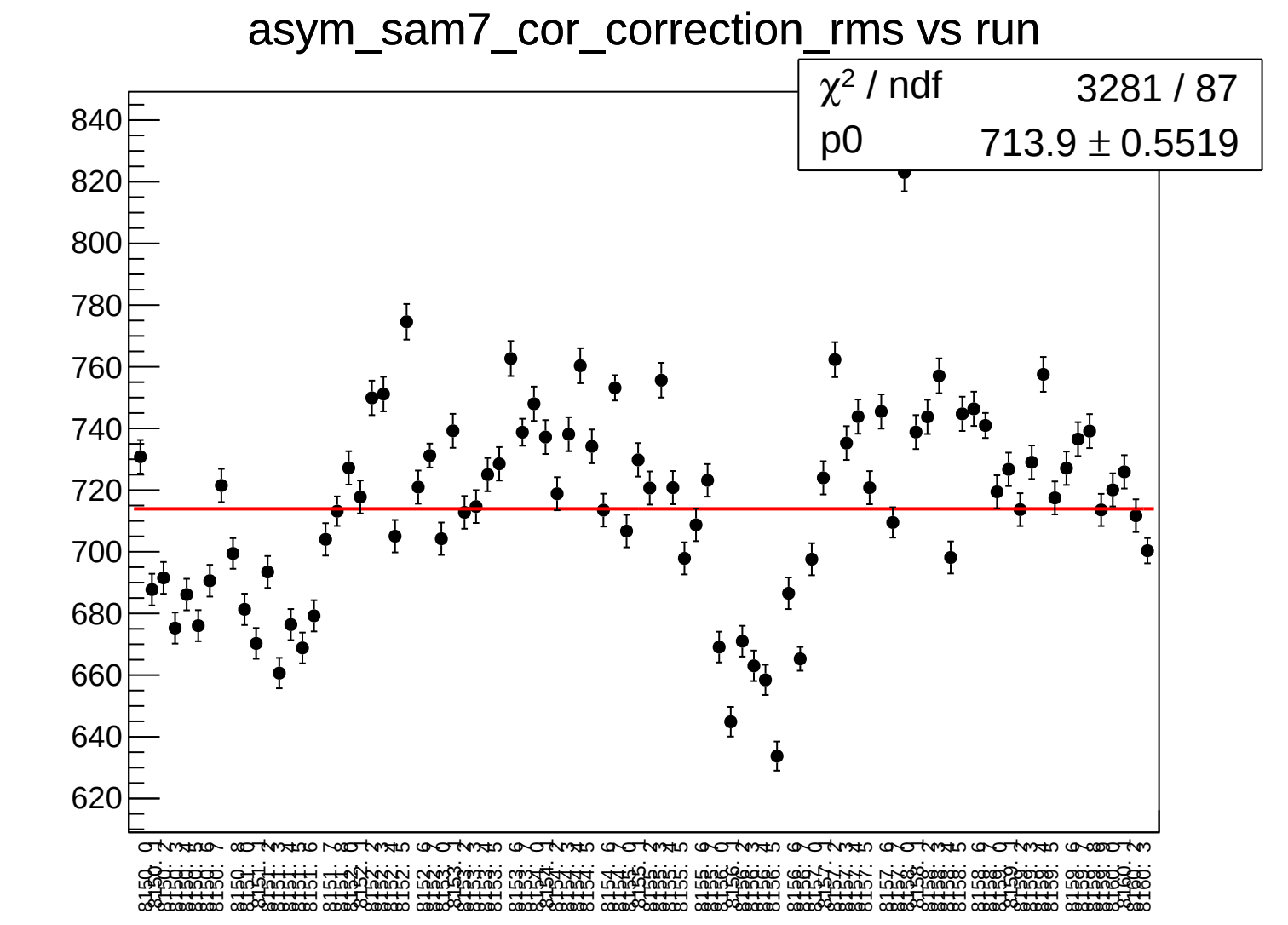

asym_sam7_reg_correction_rms vs run
χ² / ndf 3281 / 87
p0 713.9 ± 0.5519
840
820
800
780
760
740
720
700
680
660
640
620

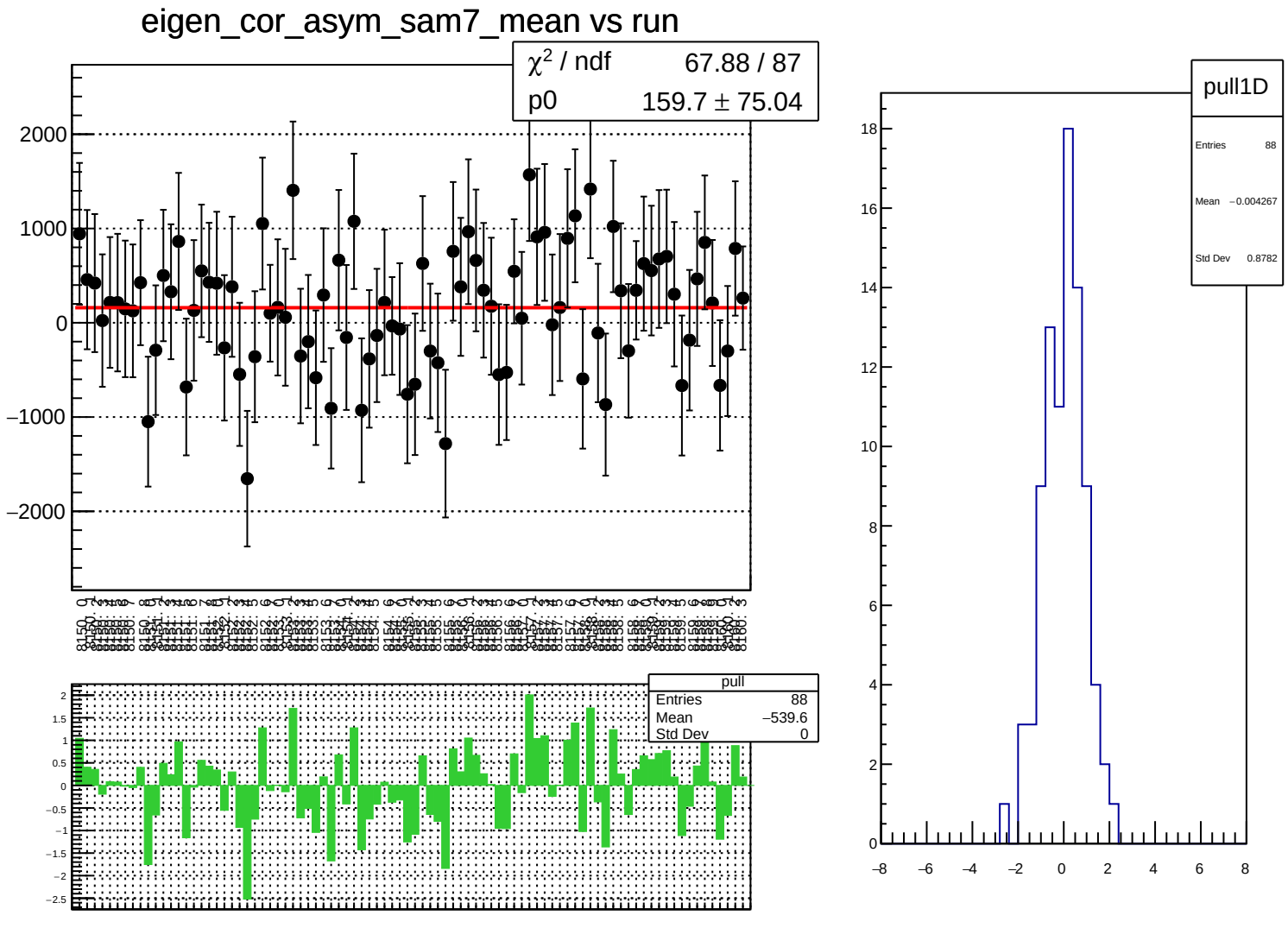

cor_asym_sam7_mean vs run
χ² / ndf 67.88 / 87
p0 159.7 ± 75.04
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −539.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

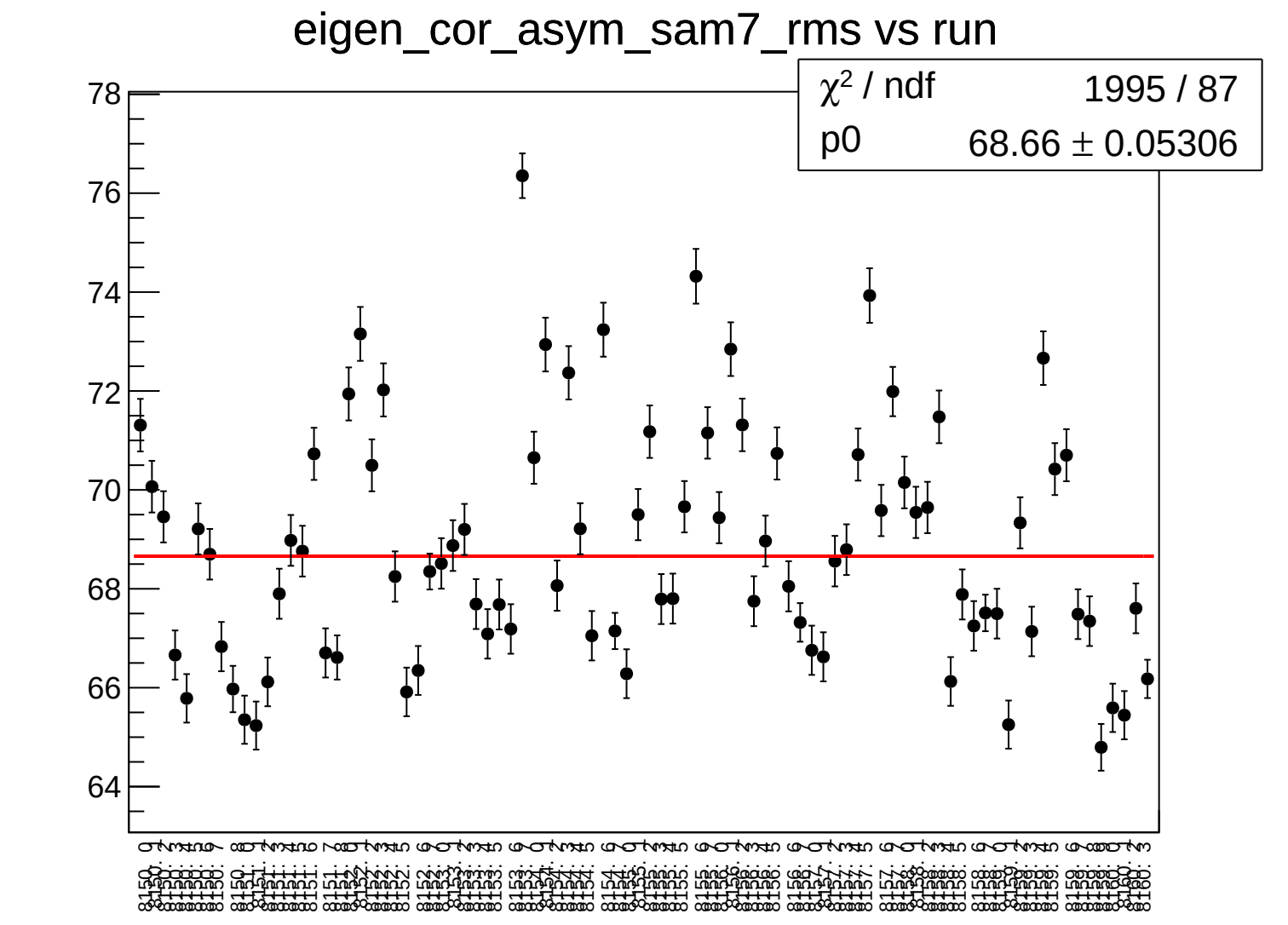

pull1D
Entries 88
Mean −0.004267
Std Dev 0.8782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

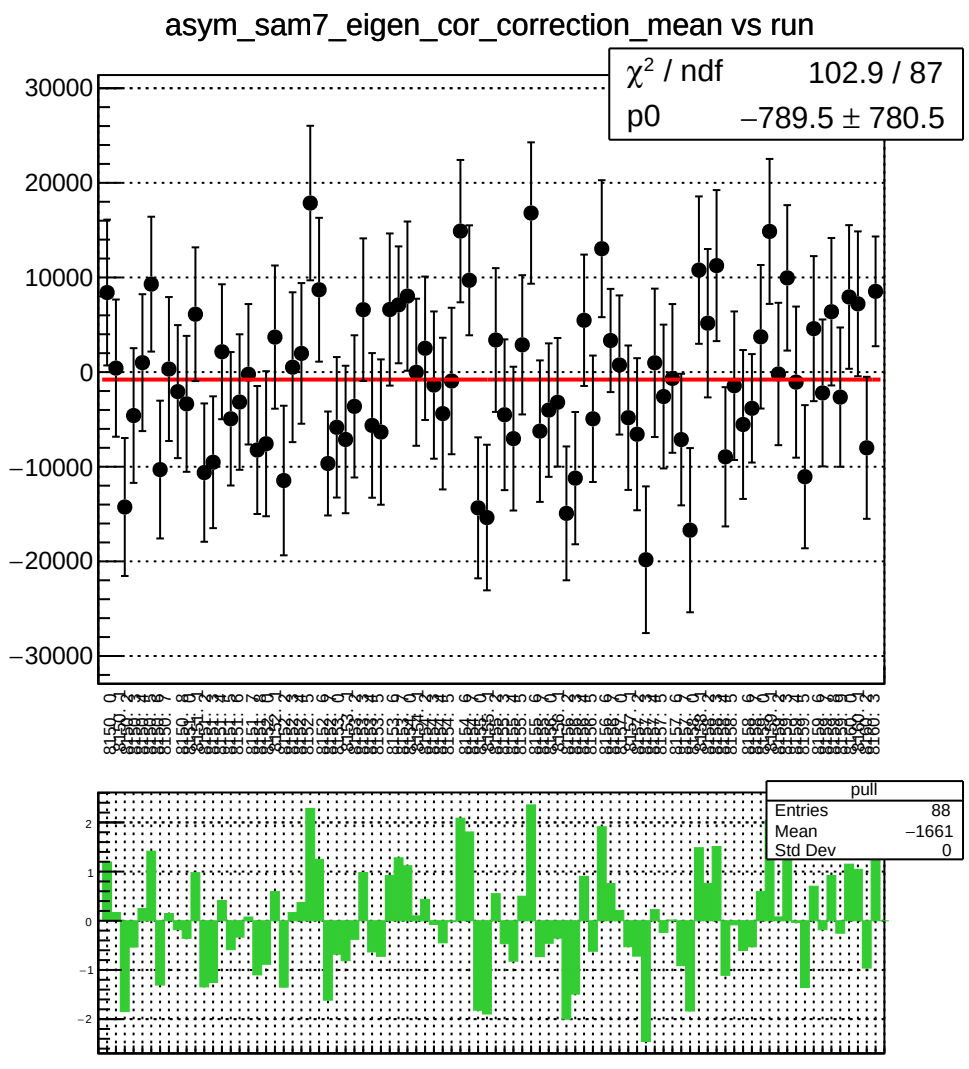

cor_asym_sam7_rms vs run
χ^2 / ndf 1995 / 87
p0 68.66 ± 0.05306
78
76
74
72
70
68
66
64

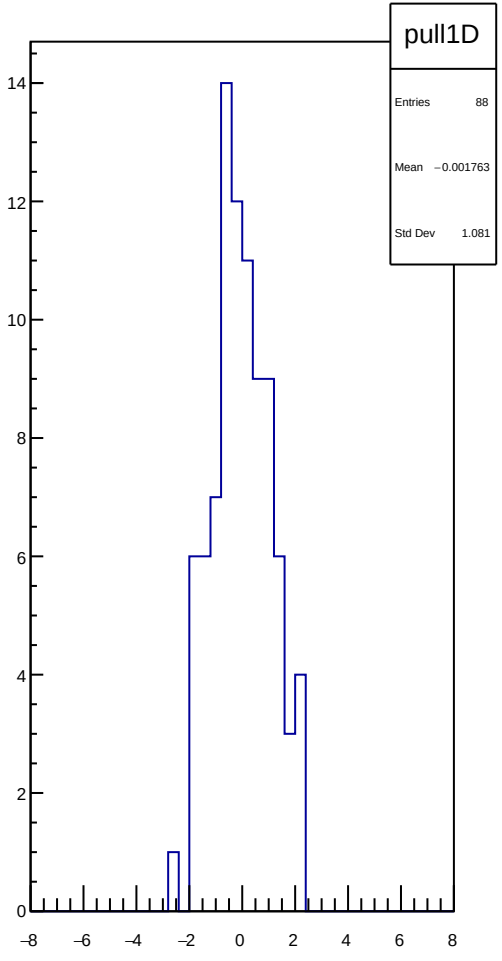

asym_sam7_cor_correction_mean vs run
χ² / ndf 102.9 / 87
p0 −789.5 ± 780.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1661
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001763
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

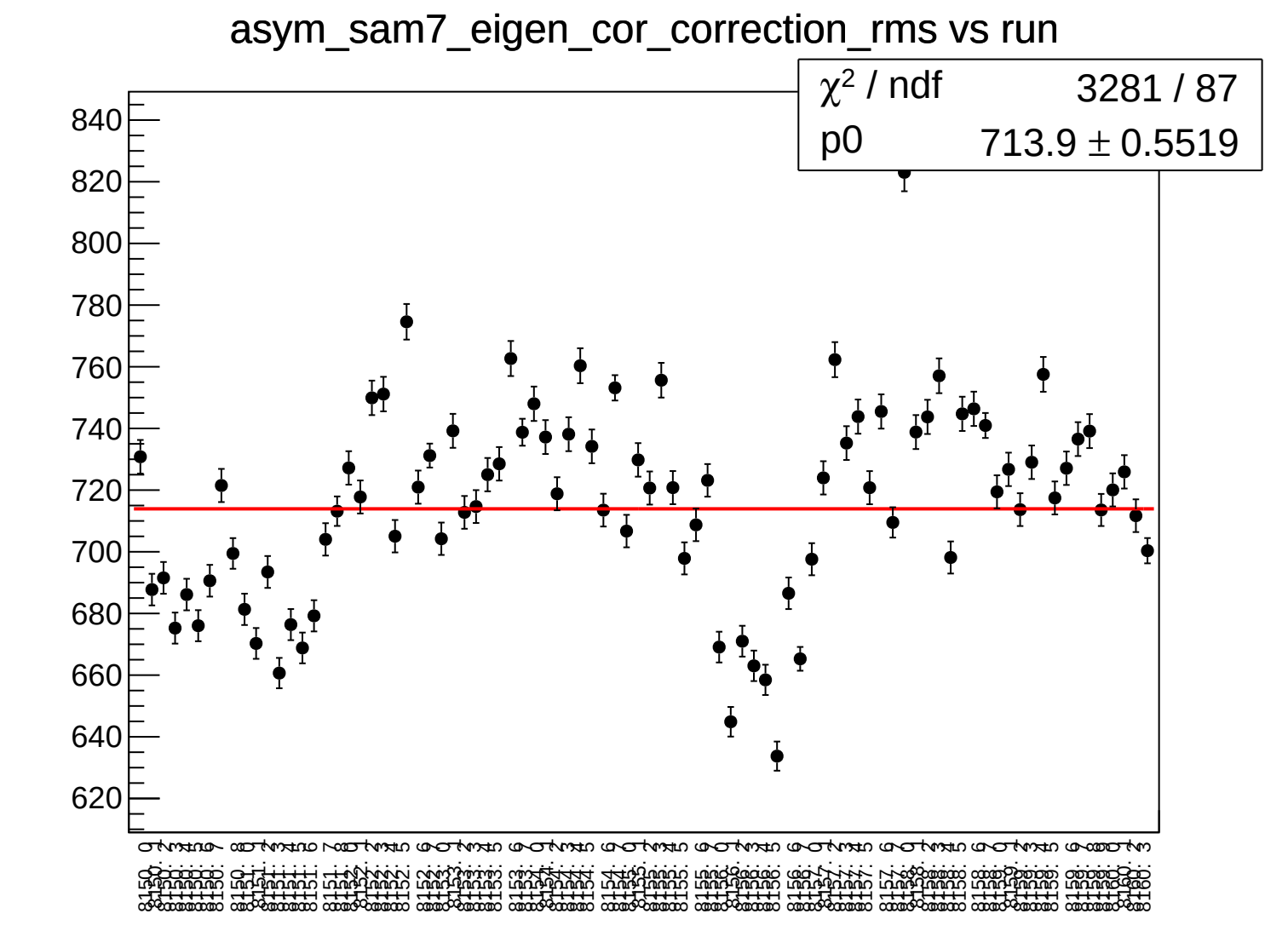

asym_sam7_cor_correction_rms vs run
χ² / ndf 3281 / 87
p0 713.9 ± 0.5519
840
820
800
780
760
740
720
700
680
660
640
620

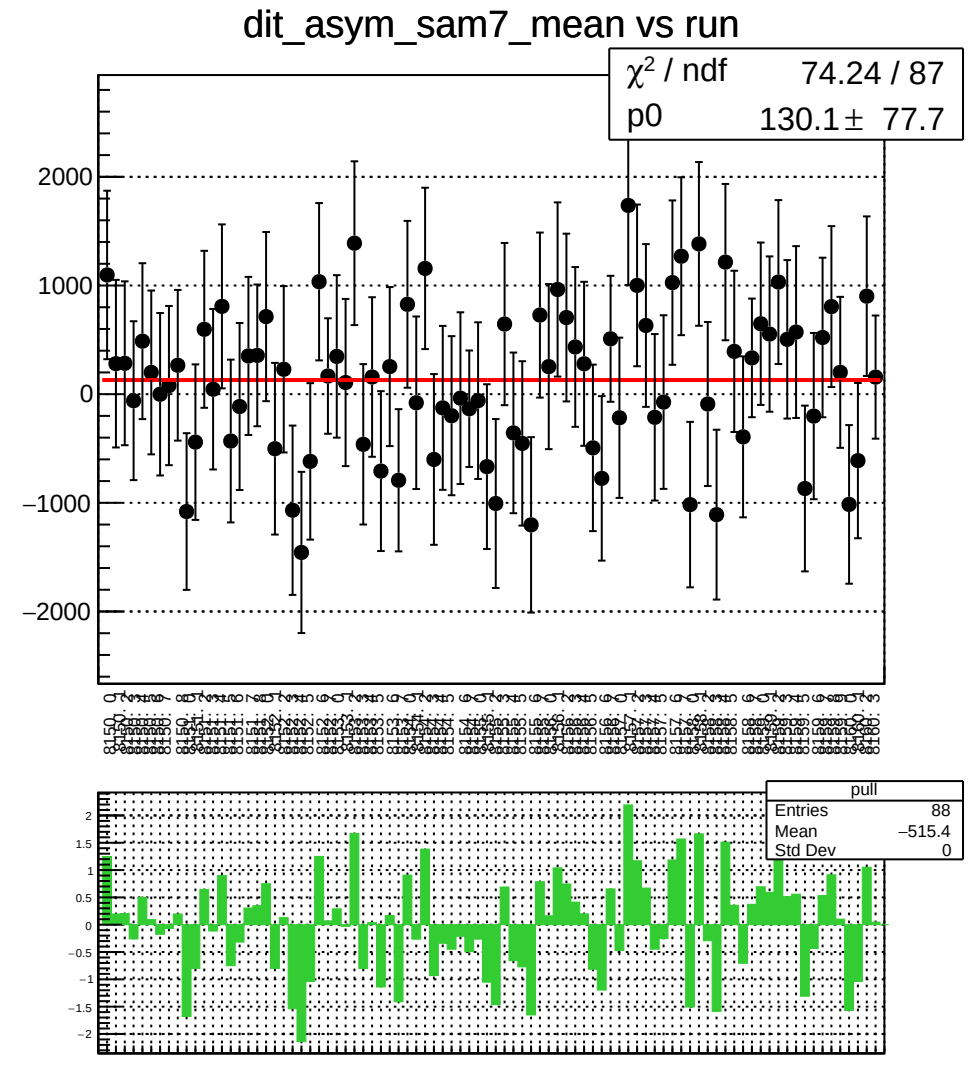

eigen_cor_asym_sam7_mean vs run
χ² / ndf 67.88 / 87
p0 159.7 ± 75.04
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −539.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean −0.004267
Std Dev 0.8782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

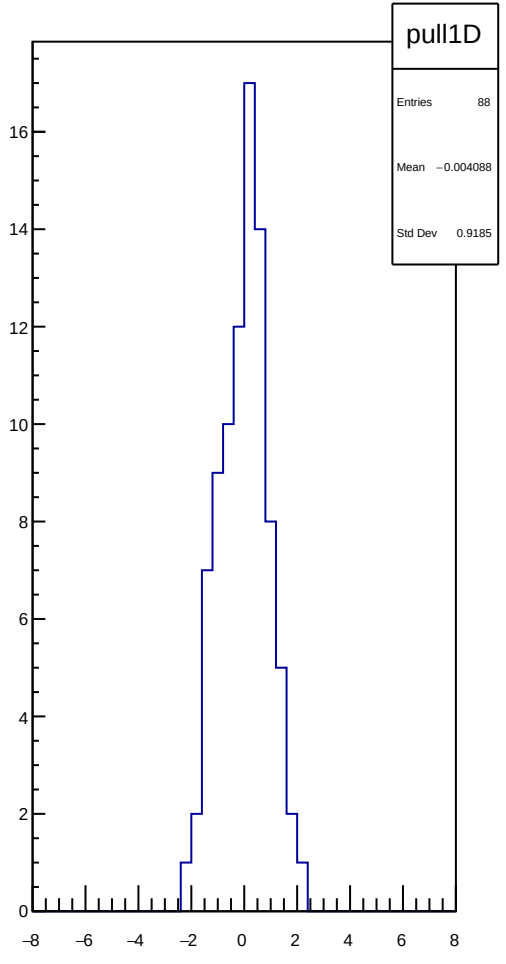

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 1995 / 87
p0 68.66 ± 0.05306
78
76
74
72
70
68
66
64

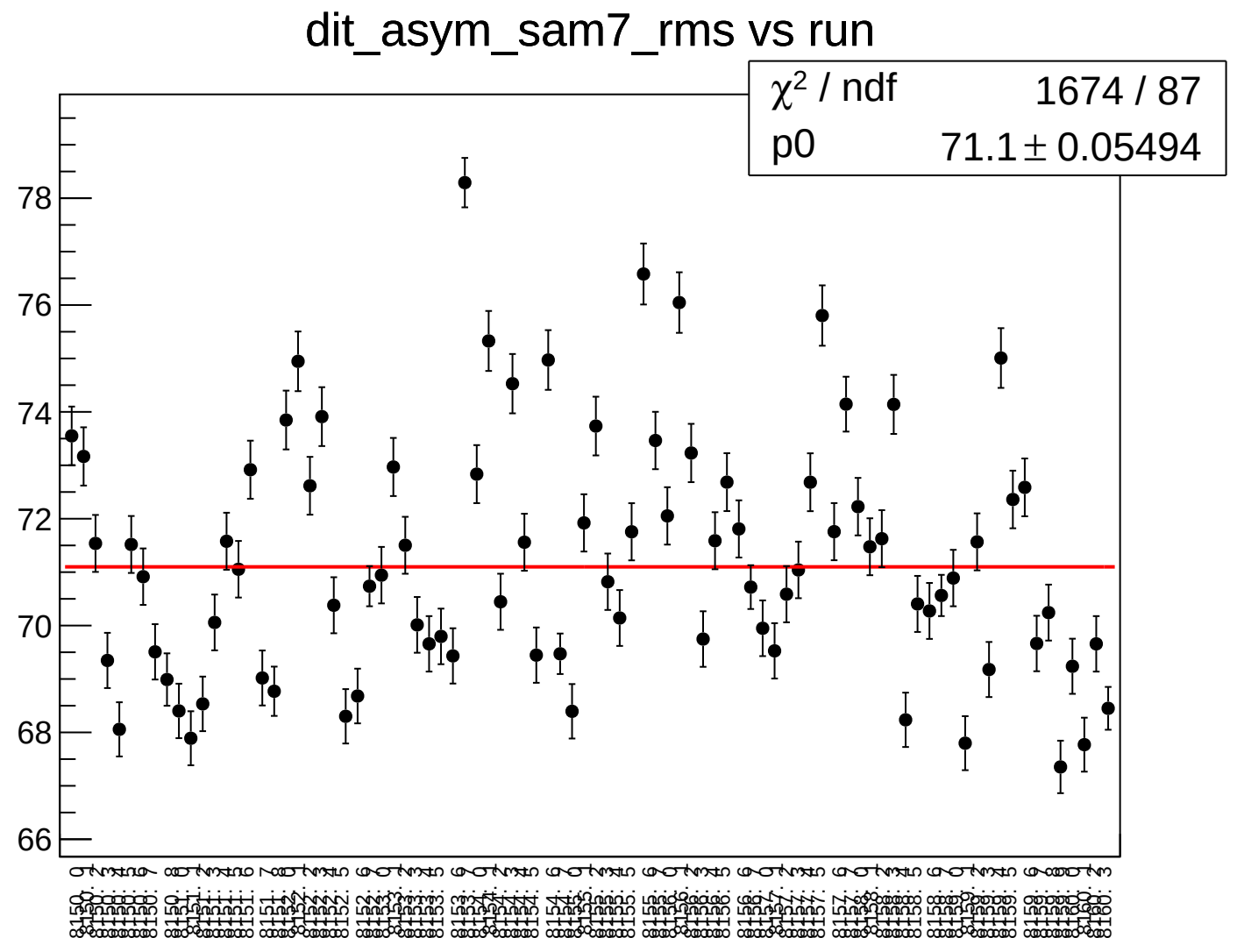

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 102.9 / 87
p0 −789.5 ± 780.5
pull
Entries 88
Mean −1661
Std Dev 0

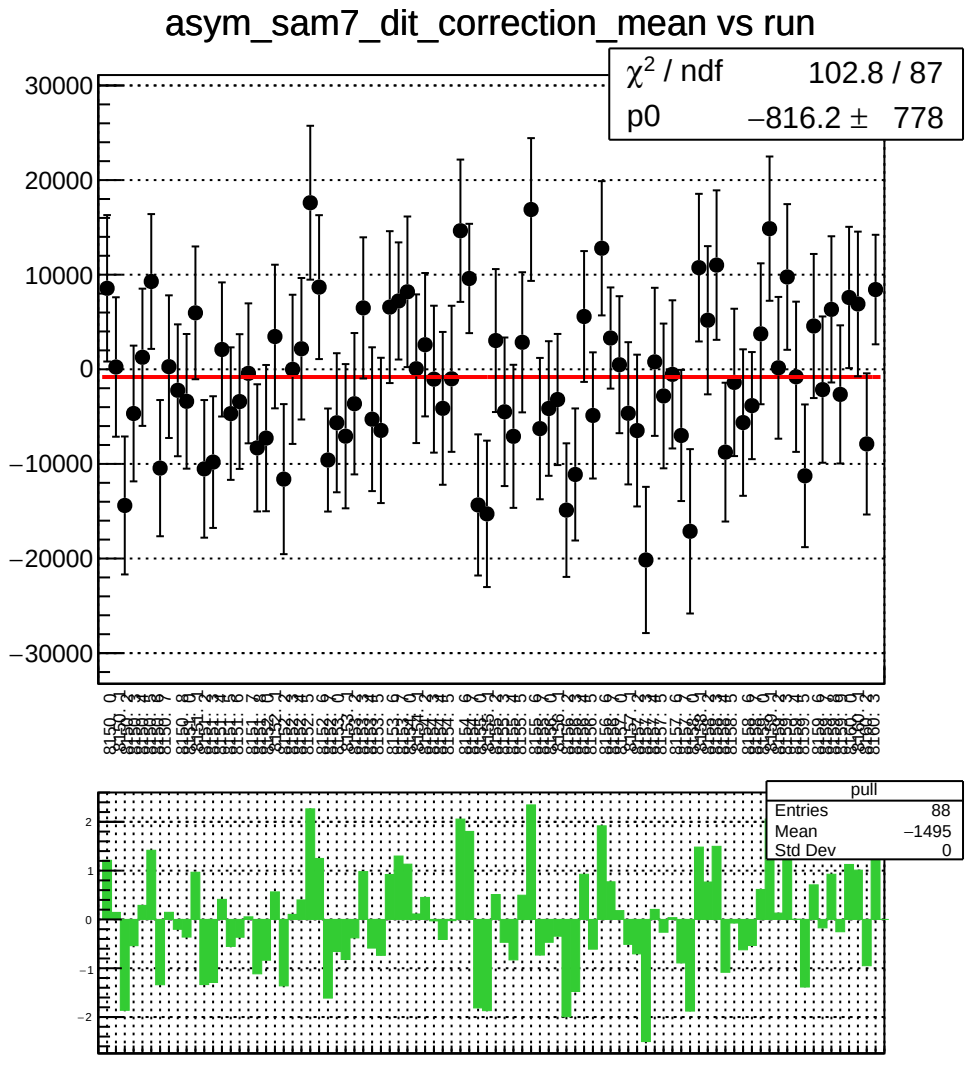

pull1D
Entries 88
Mean −0.001763
Std Dev 1.081

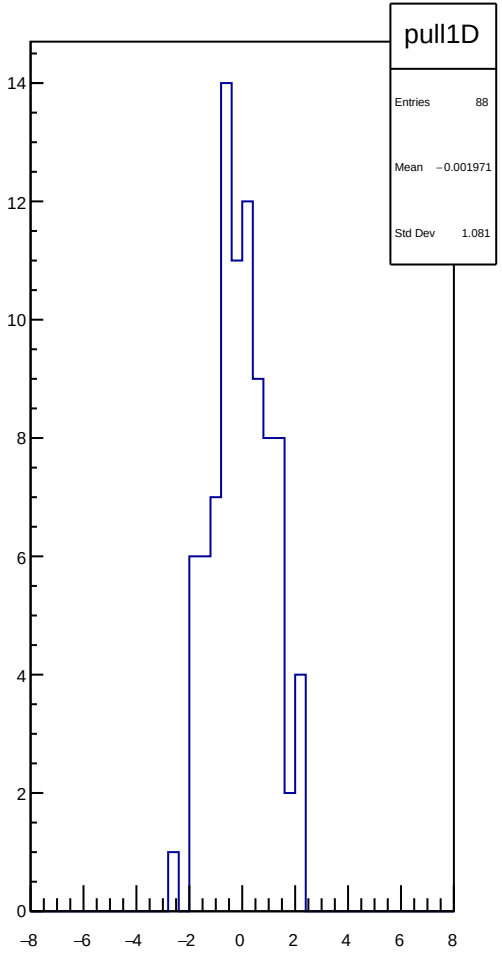

asym_sam7_eigen_cor_correction_rms vs run
χ^2 / ndf 3281 / 87
p0 713.9 ± 0.5519
840
820
800
780
760
740
720
700
680
660
640
620

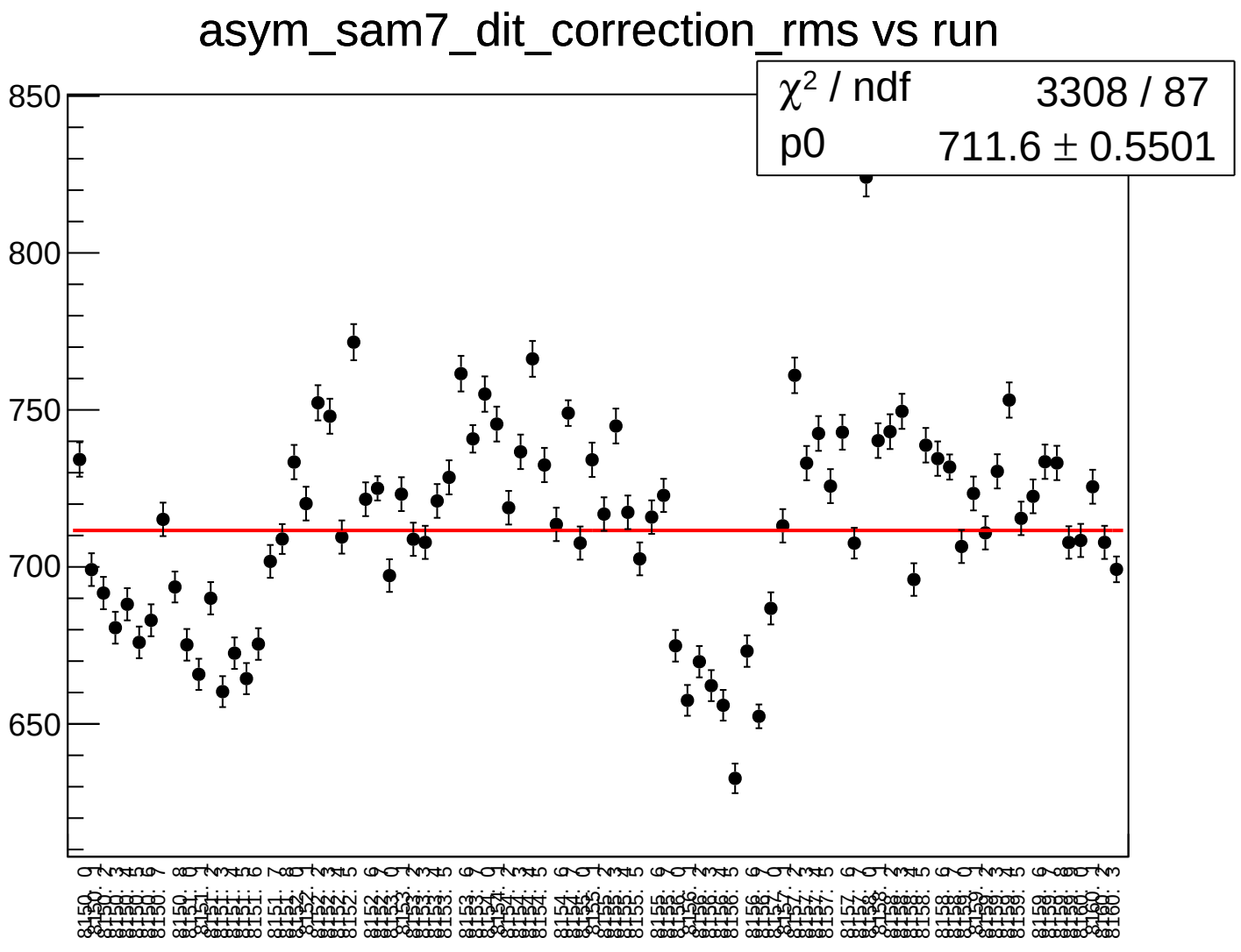

dit_asym_sam7_mean vs run
χ² / ndf 74.24 / 87
p0 130.1 ± 77.7
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −515.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

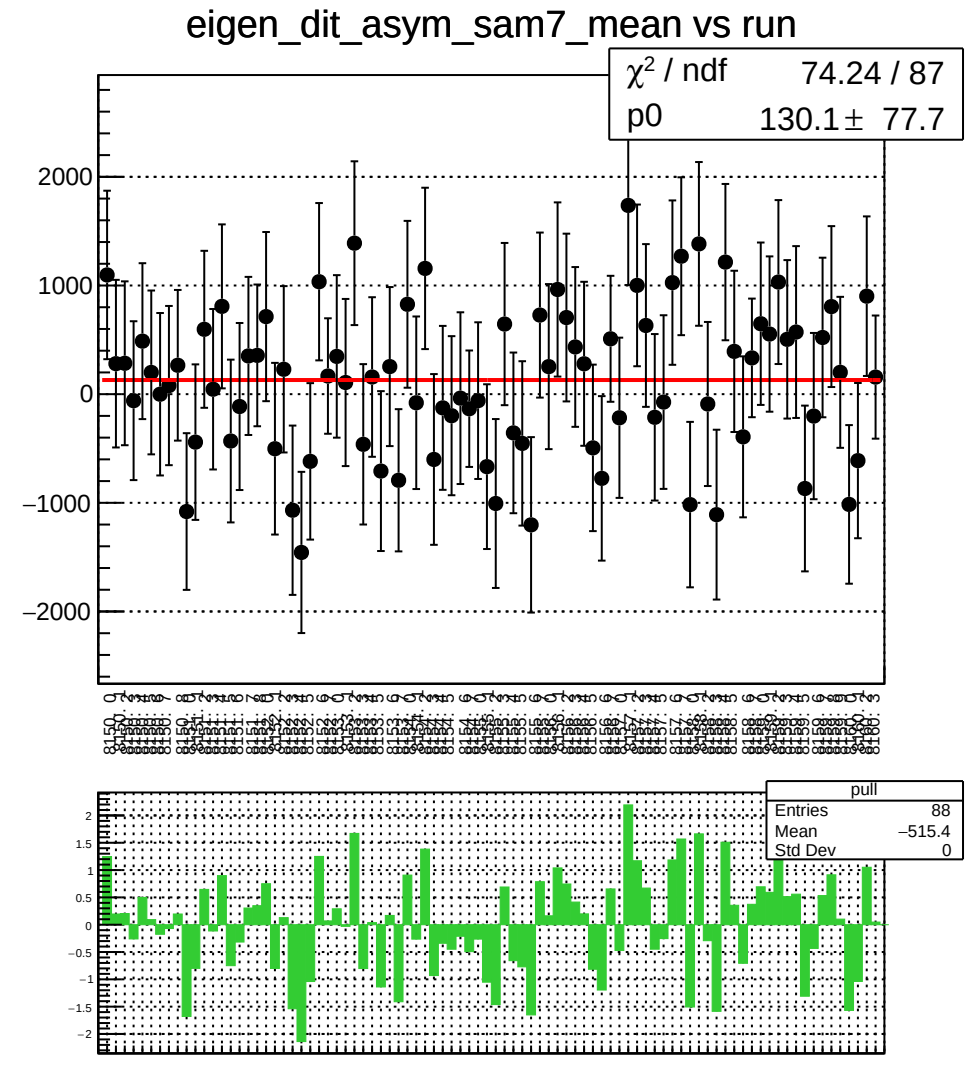

pull1D
Entries 88
Mean −0.004088
Std Dev 0.9185
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

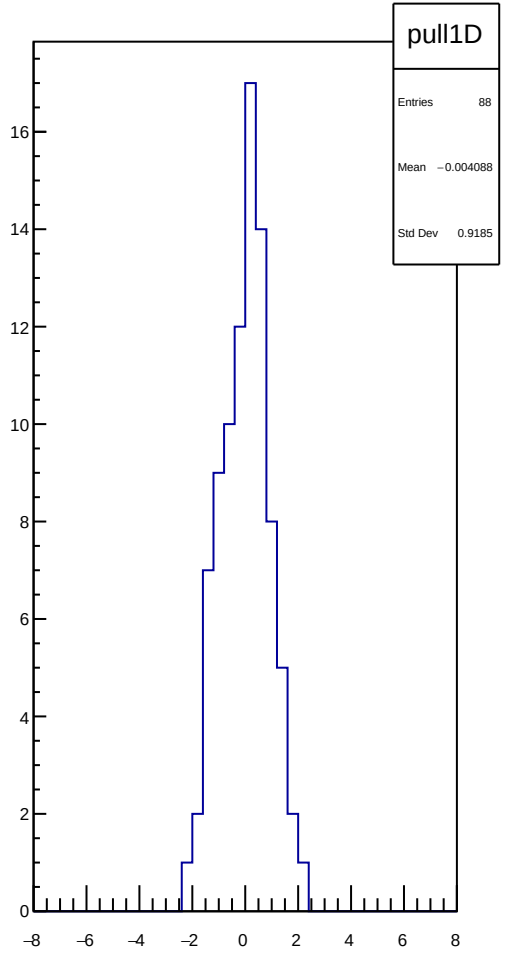

dit_asym_sam7_rms vs run
χ² / ndf 1674 / 87
p0 71.1 ± 0.05494
78
76
74
72
70
68
66

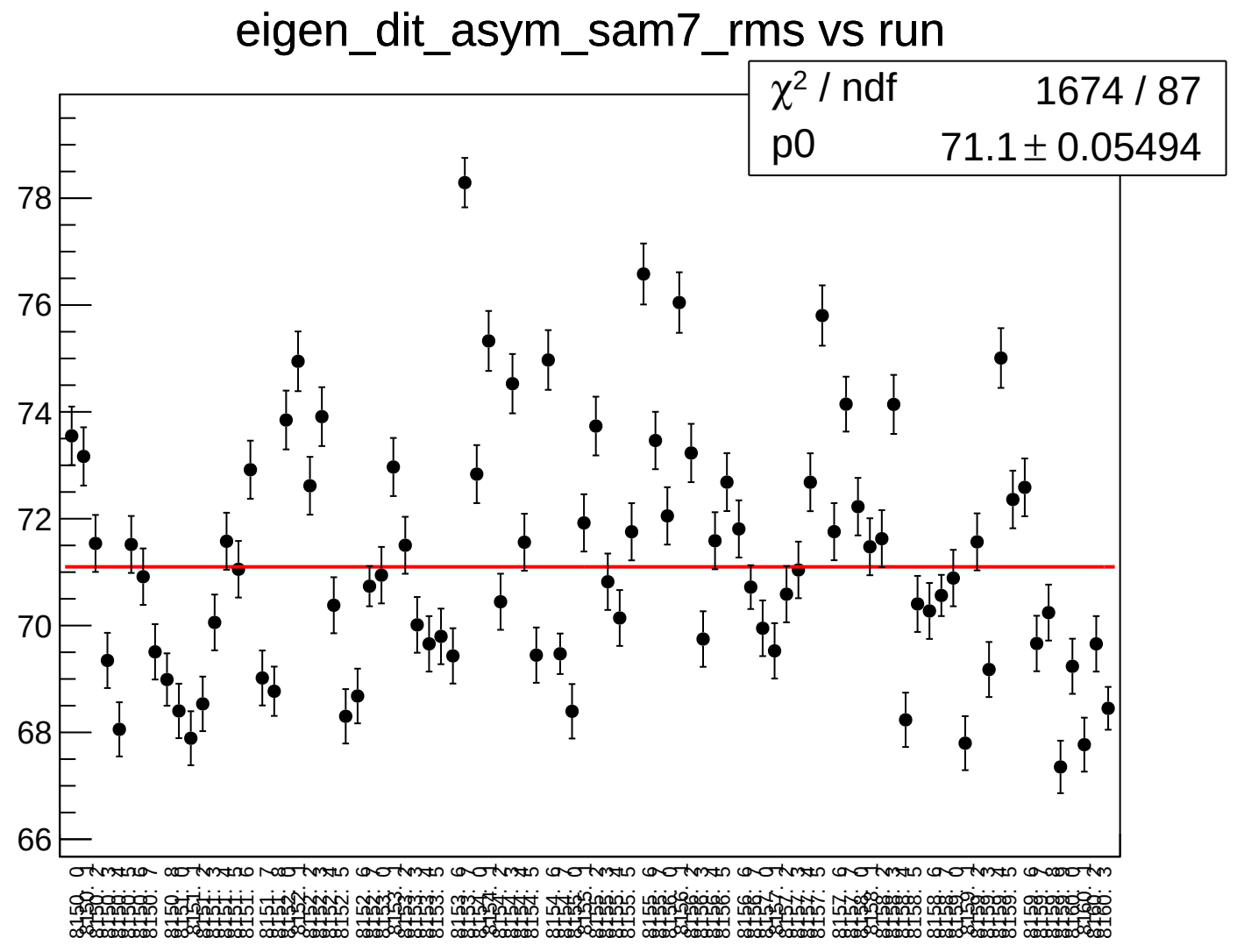

asym_sam7_dit_correction_mean vs run
χ² / ndf 102.8 / 87
p0 −816.2 ± 778
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1495
Std Dev 0
2
1
0
−1
−2

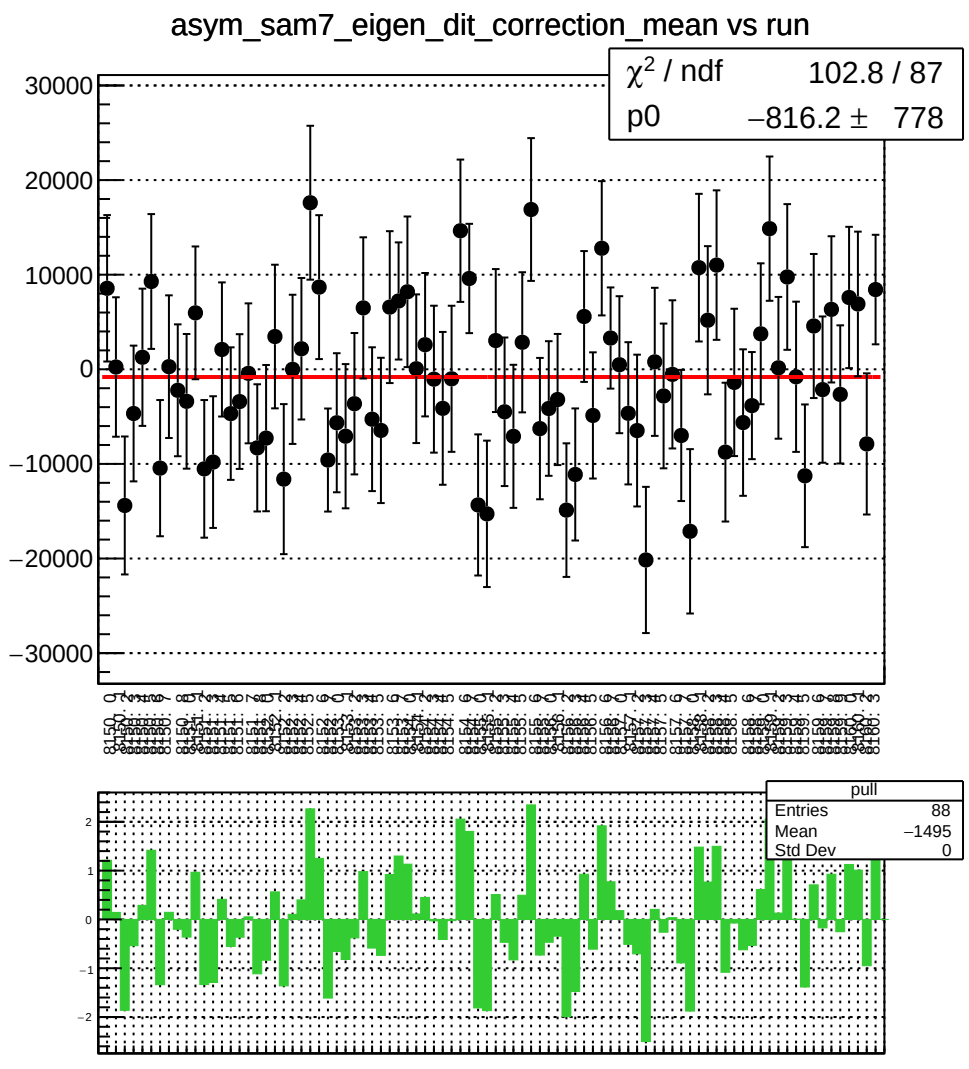

pull1D
Entries 88
Mean −0.001971
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

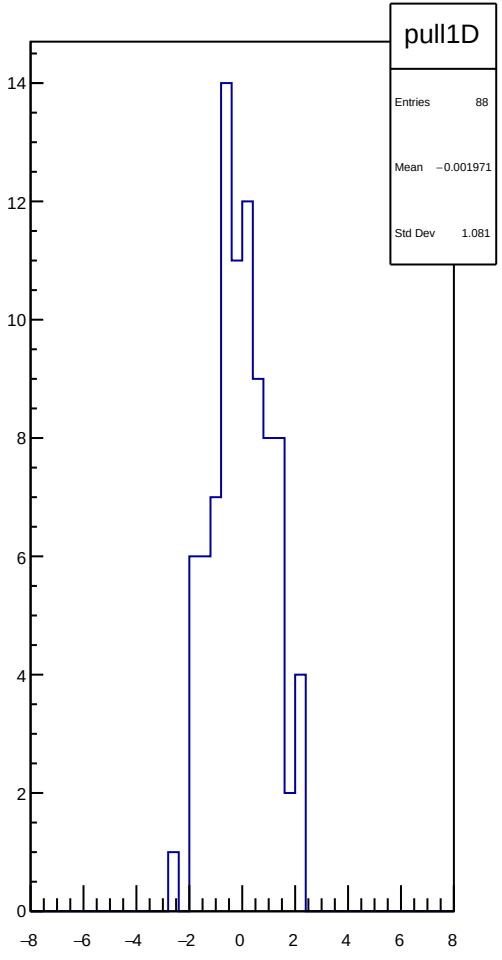

asym_sam7_dit_correction_rms vs run
χ² / ndf 3308 / 87
p0 711.6 ± 0.5501
850
800
750
700
650

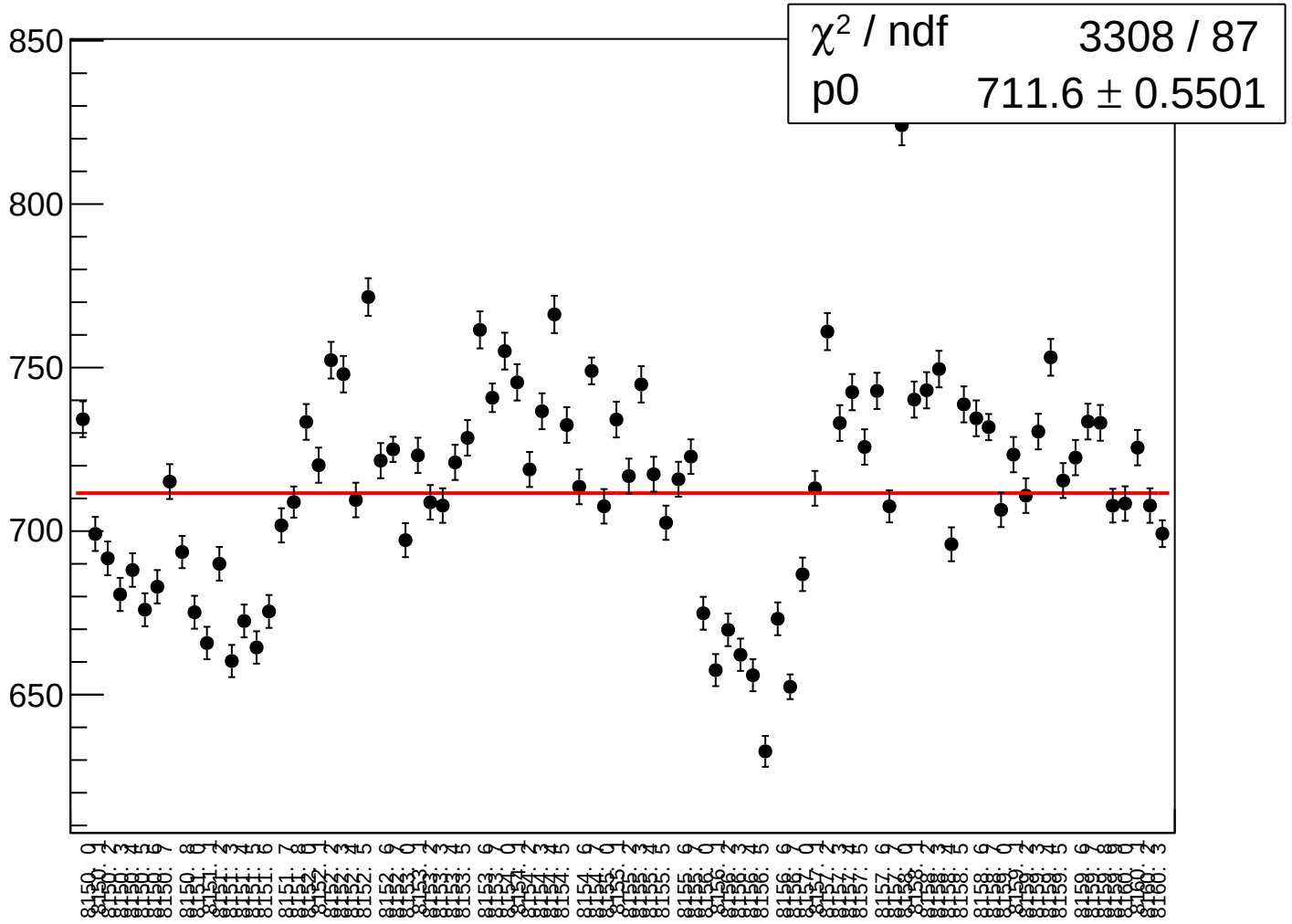

eigen_dit_asym_sam7_mean vs run
χ² / ndf 74.24 / 87
p0 130.1 ± 77.7
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −515.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

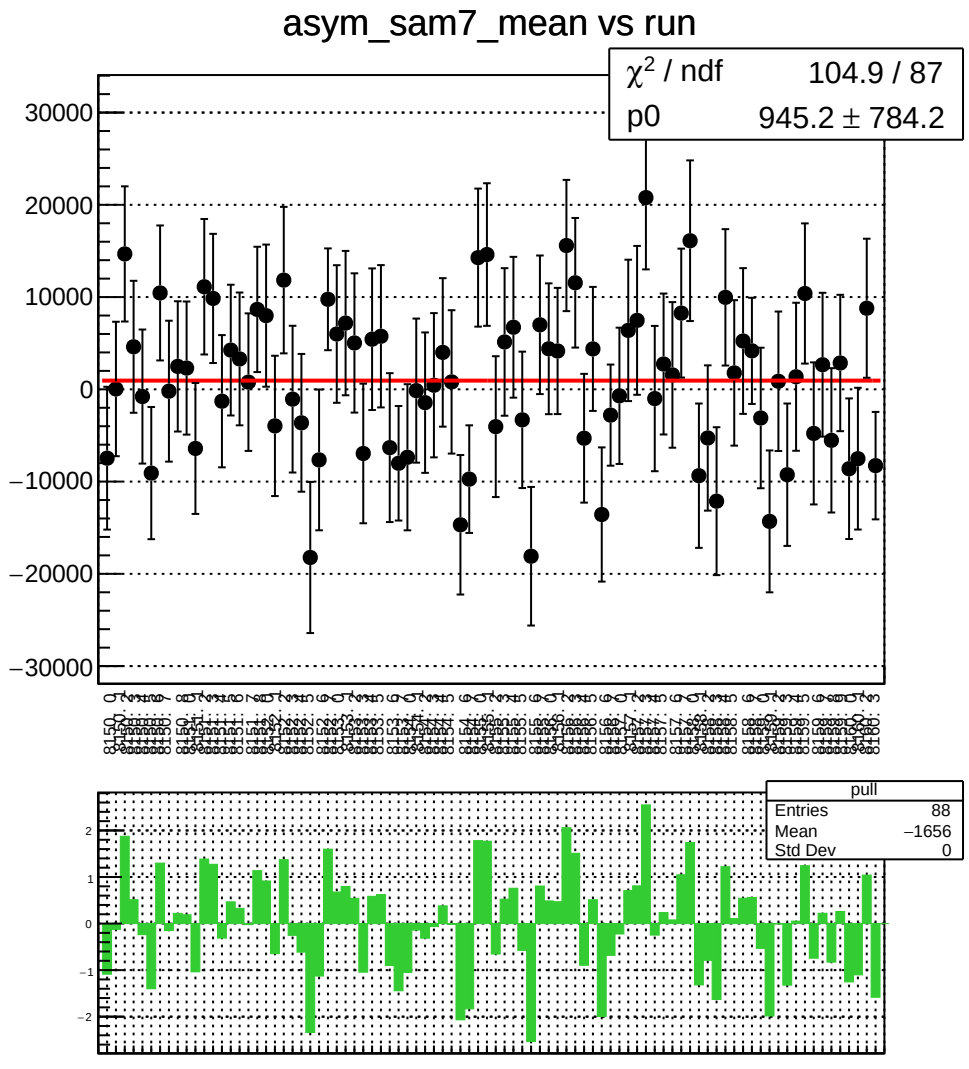

pull1D
Entries 88
Mean −0.004088
Std Dev 0.9185
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

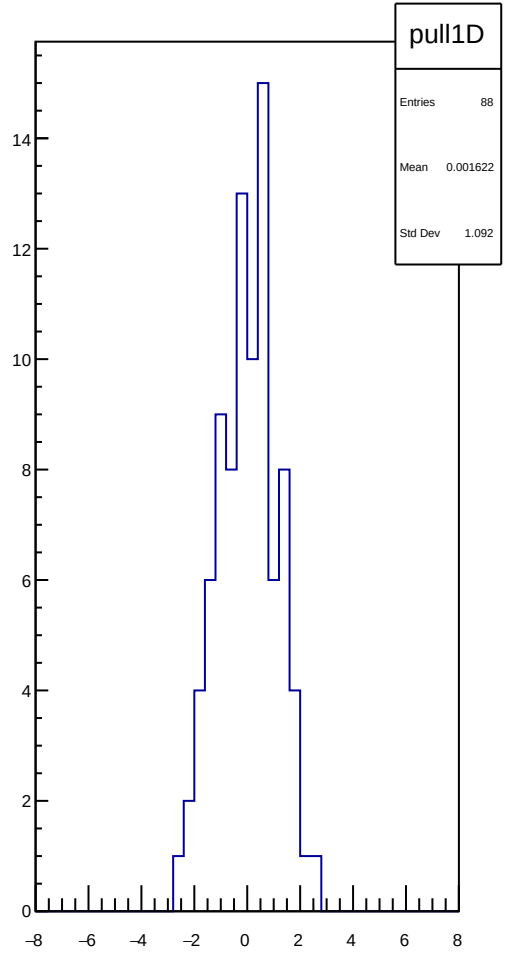

eigen_dit_asym_sam7_rms vs run
χ² / ndf 1674 / 87
p0 71.1 ± 0.05494
78
76
74
72
70
68
66

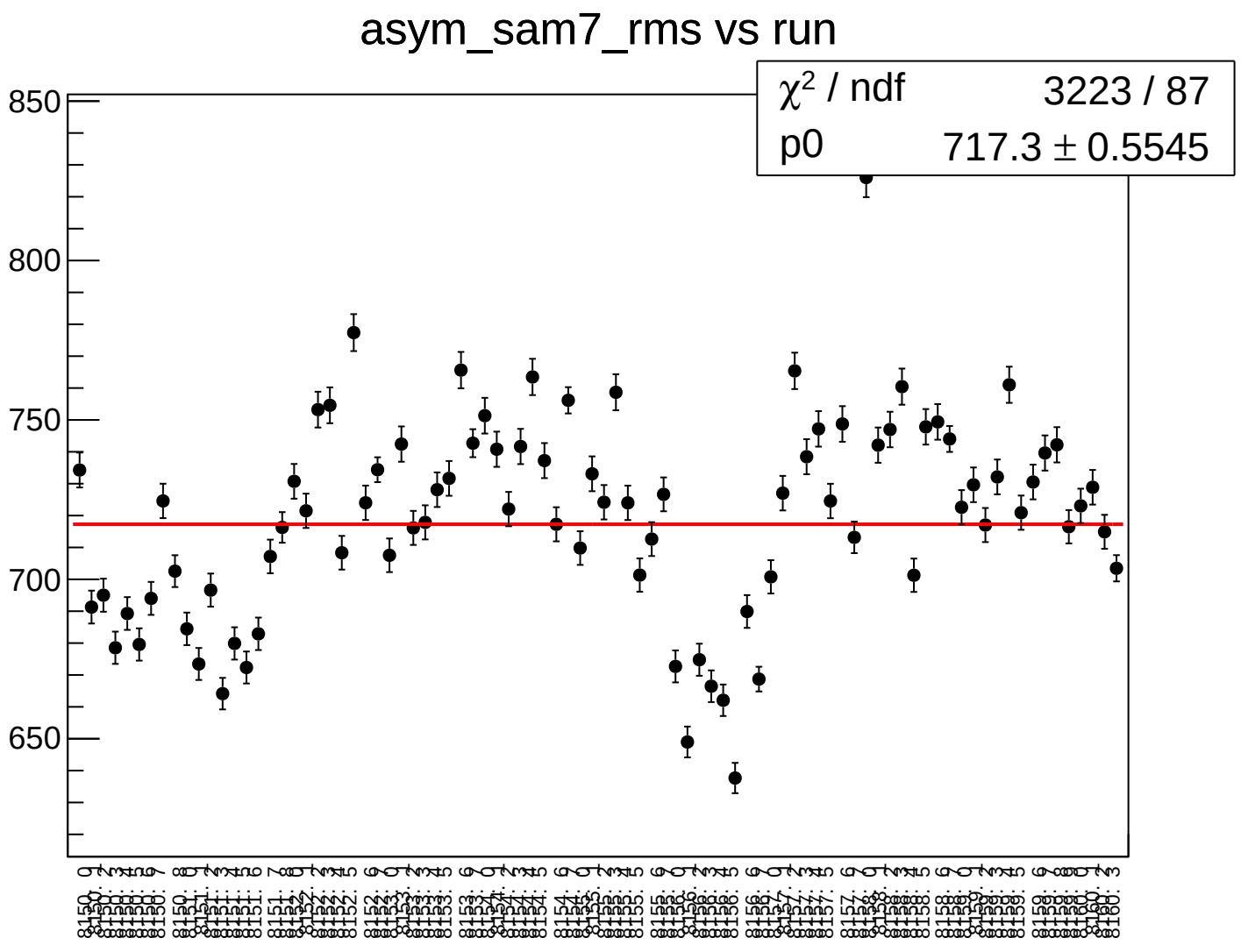

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 102.8 / 87
p0 −816.2 ± 778
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1495
Std Dev 0
2
1
0
−1
−2

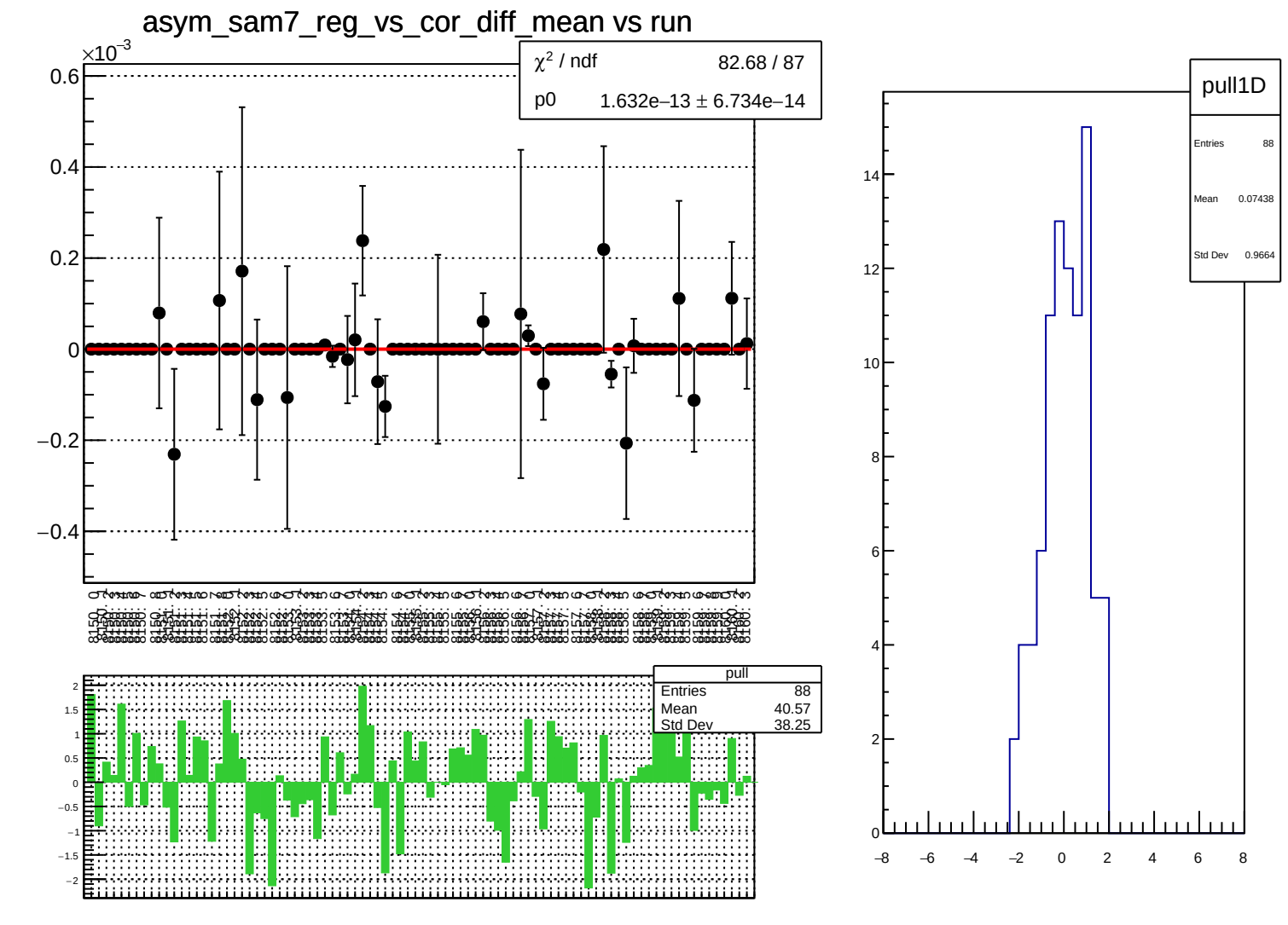

pull1D
Entries 88
Mean −0.001971
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

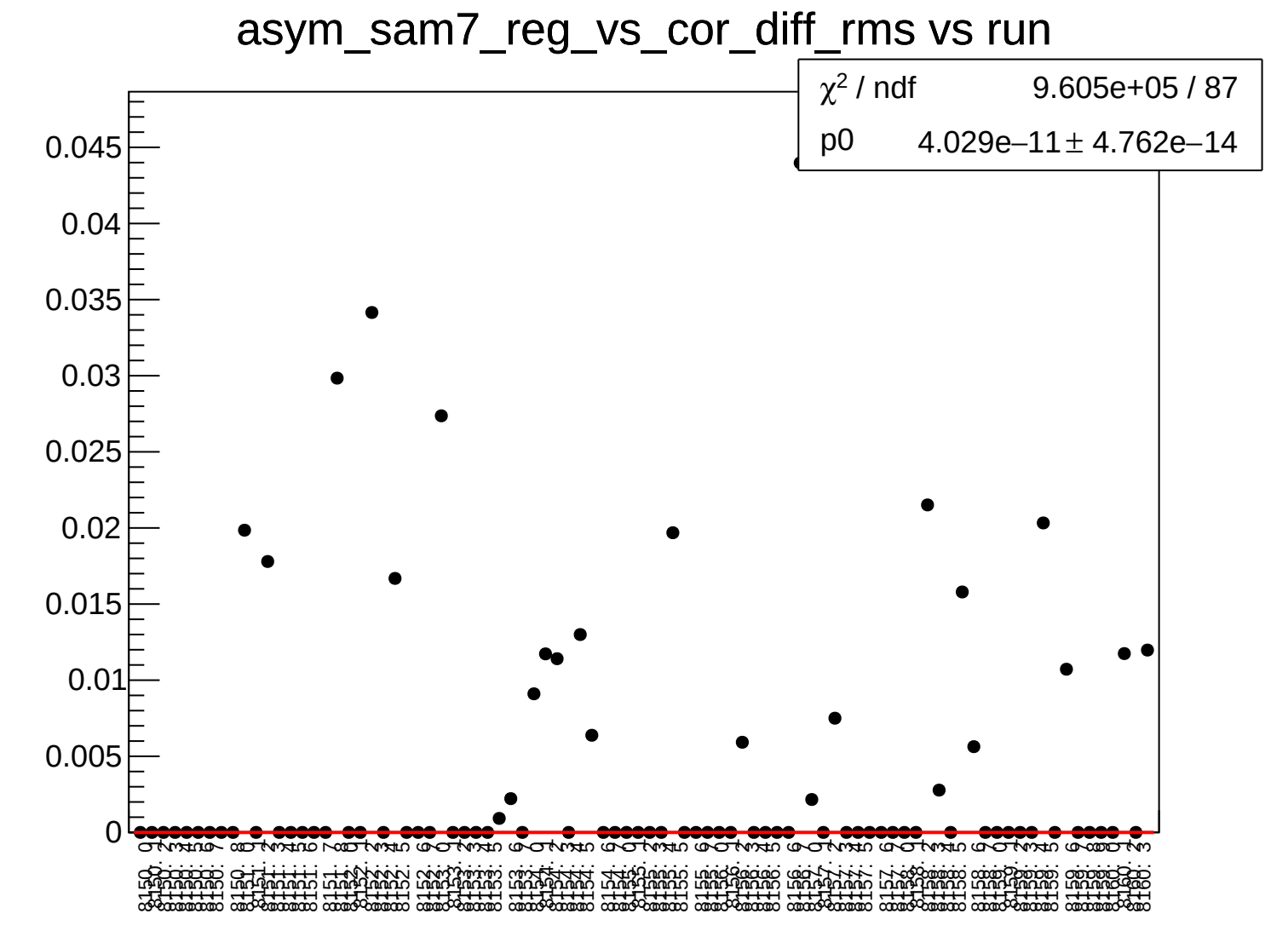

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 3308 / 87
p0 711.6 ± 0.5501
850
800
750
700
650

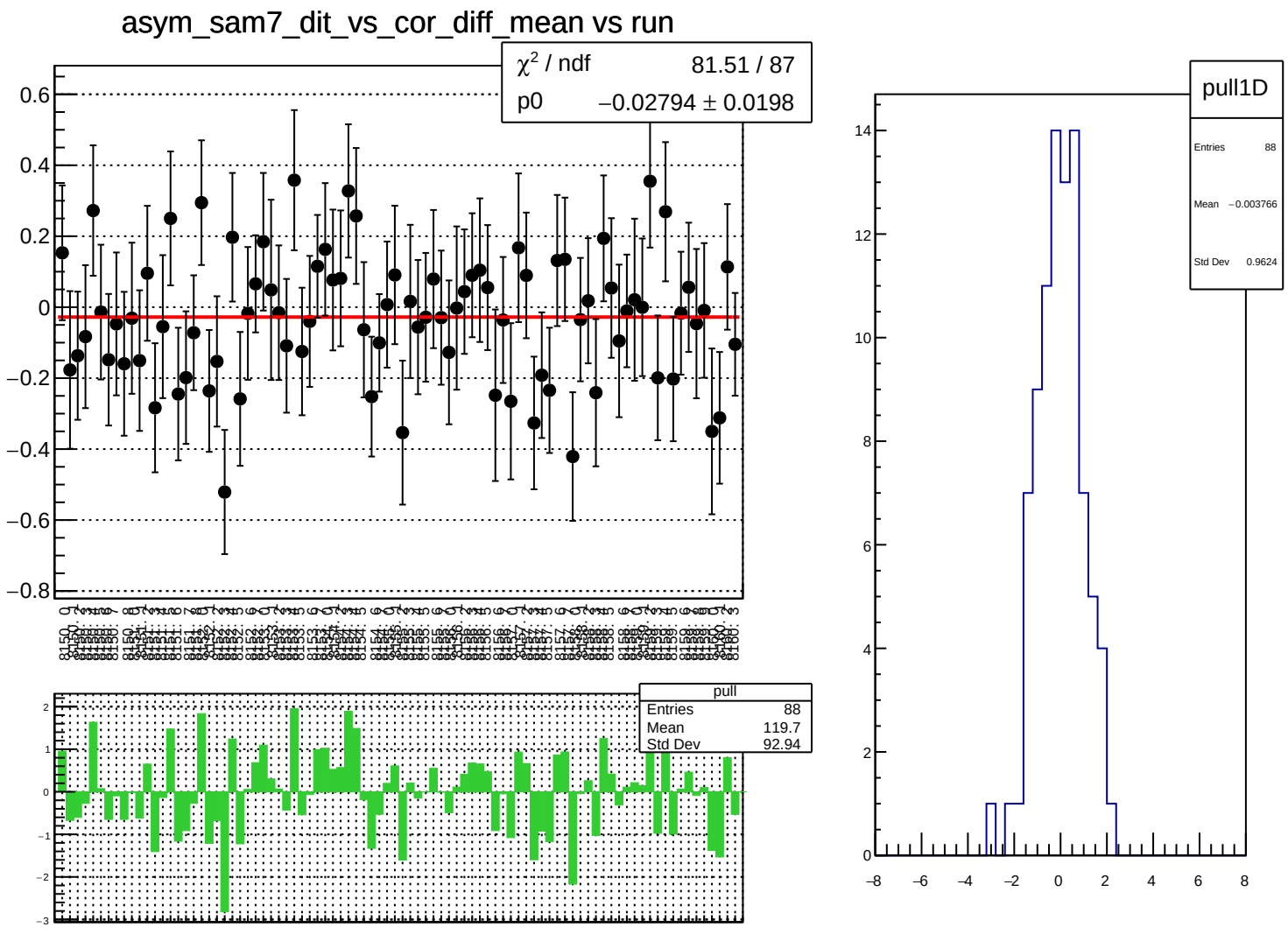

asym_sam7_mean vs run
χ² / ndf 104.9 / 87
p0 945.2 ± 784.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1656
Std Dev 0
2
1
0
−1
−2

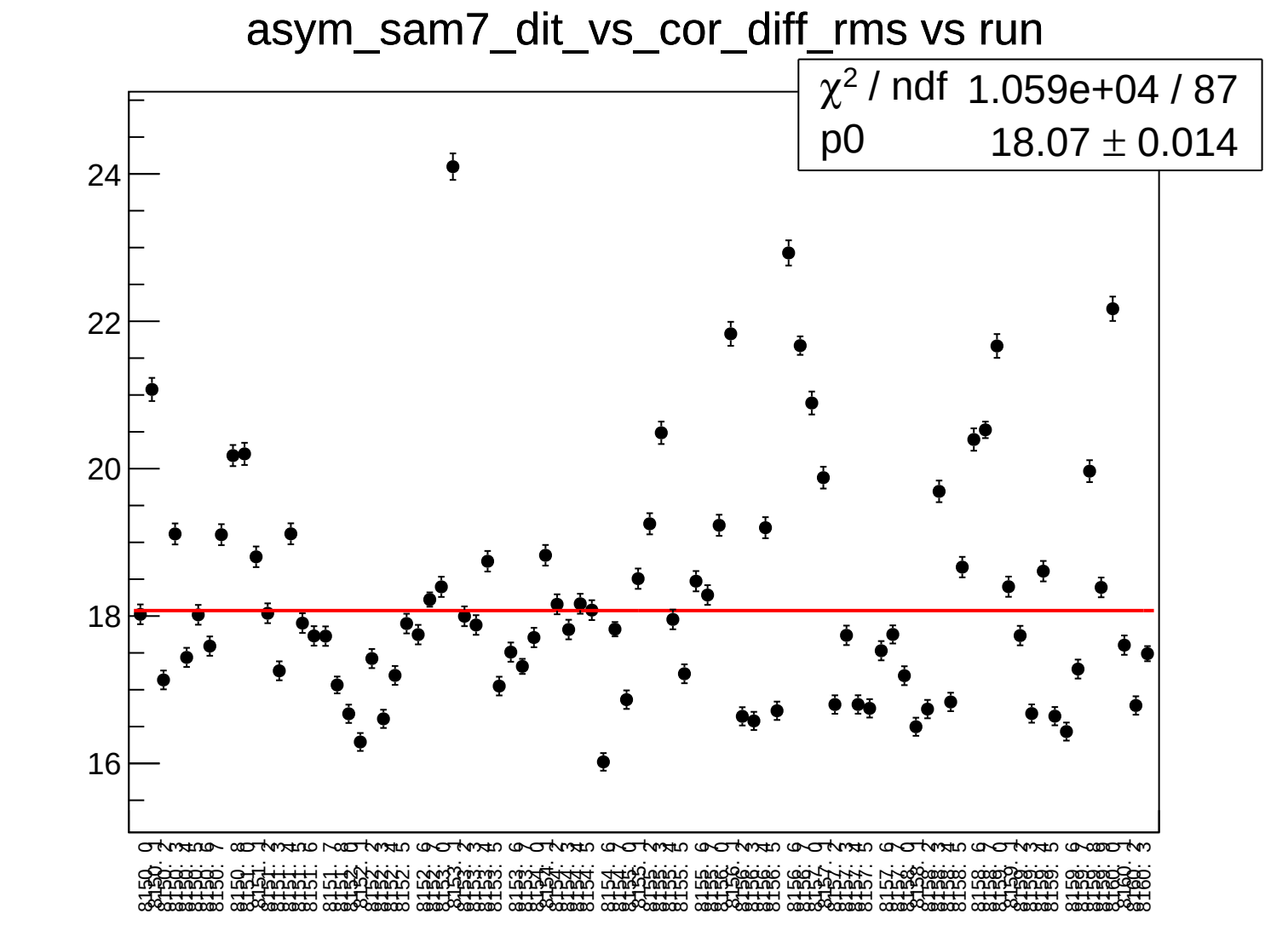

pull1D
Entries 88
Mean 0.001622
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

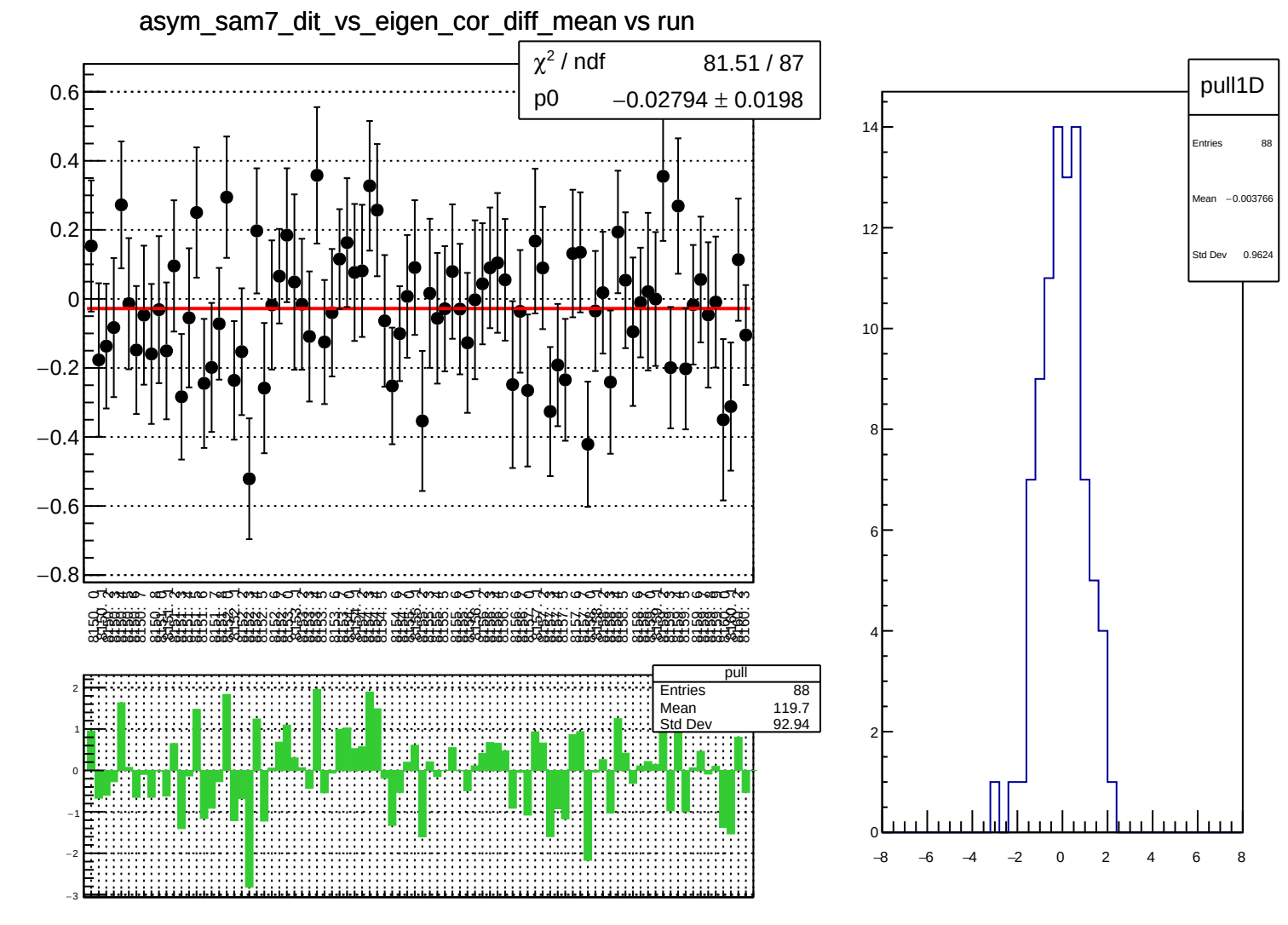

asym_sam7_rms vs run
χ² / ndf 3223 / 87
p0 717.3 ± 0.5545
850
800
750
700
650

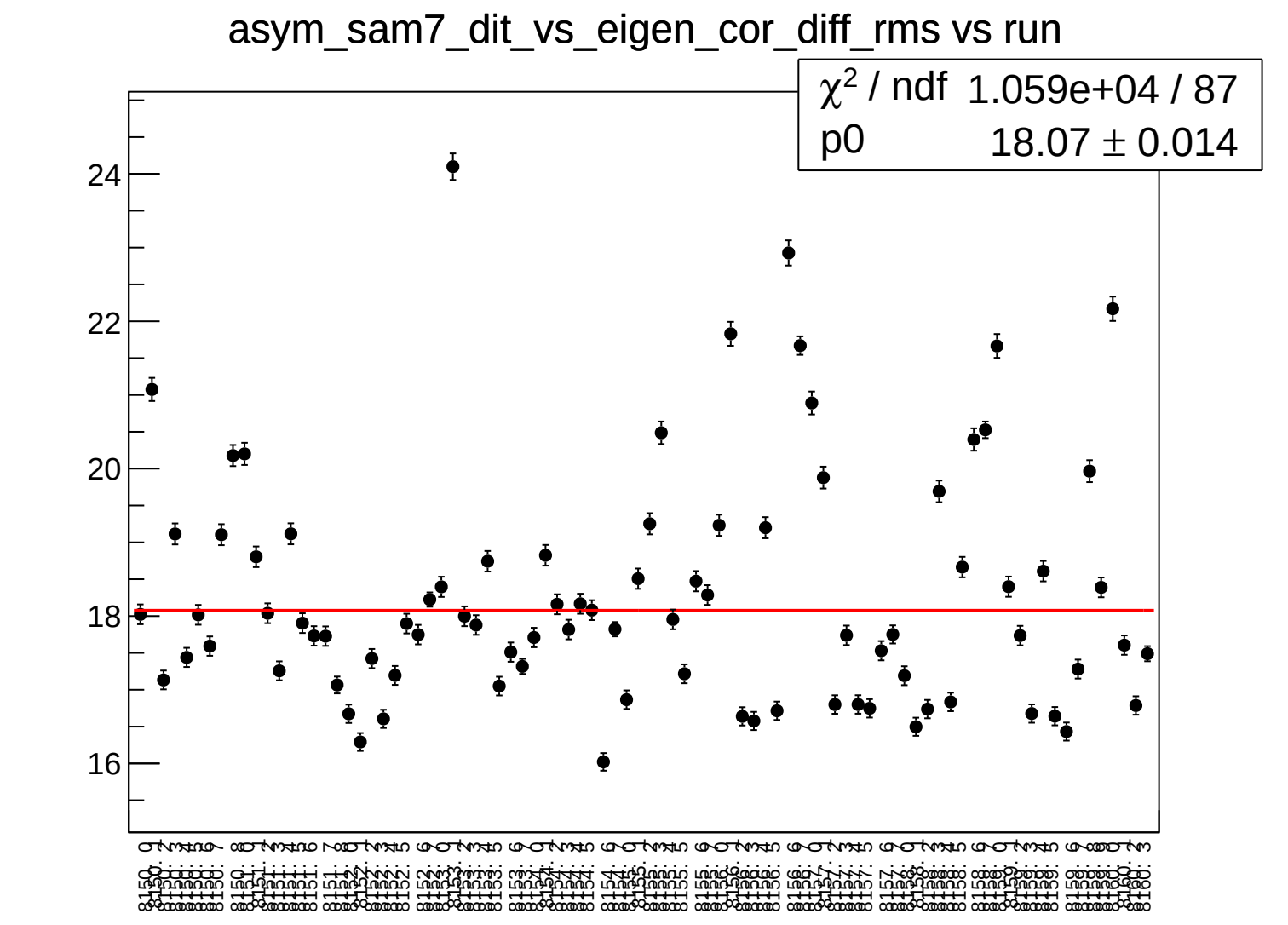

asym_sam7_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 82.68 / 87
p0 1.632e−13 ± 6.734e−14
pull
Entries 88
Mean 40.57
Std Dev 38.25
pull1D
Entries 88
Mean 0.07438
Std Dev 0.9664

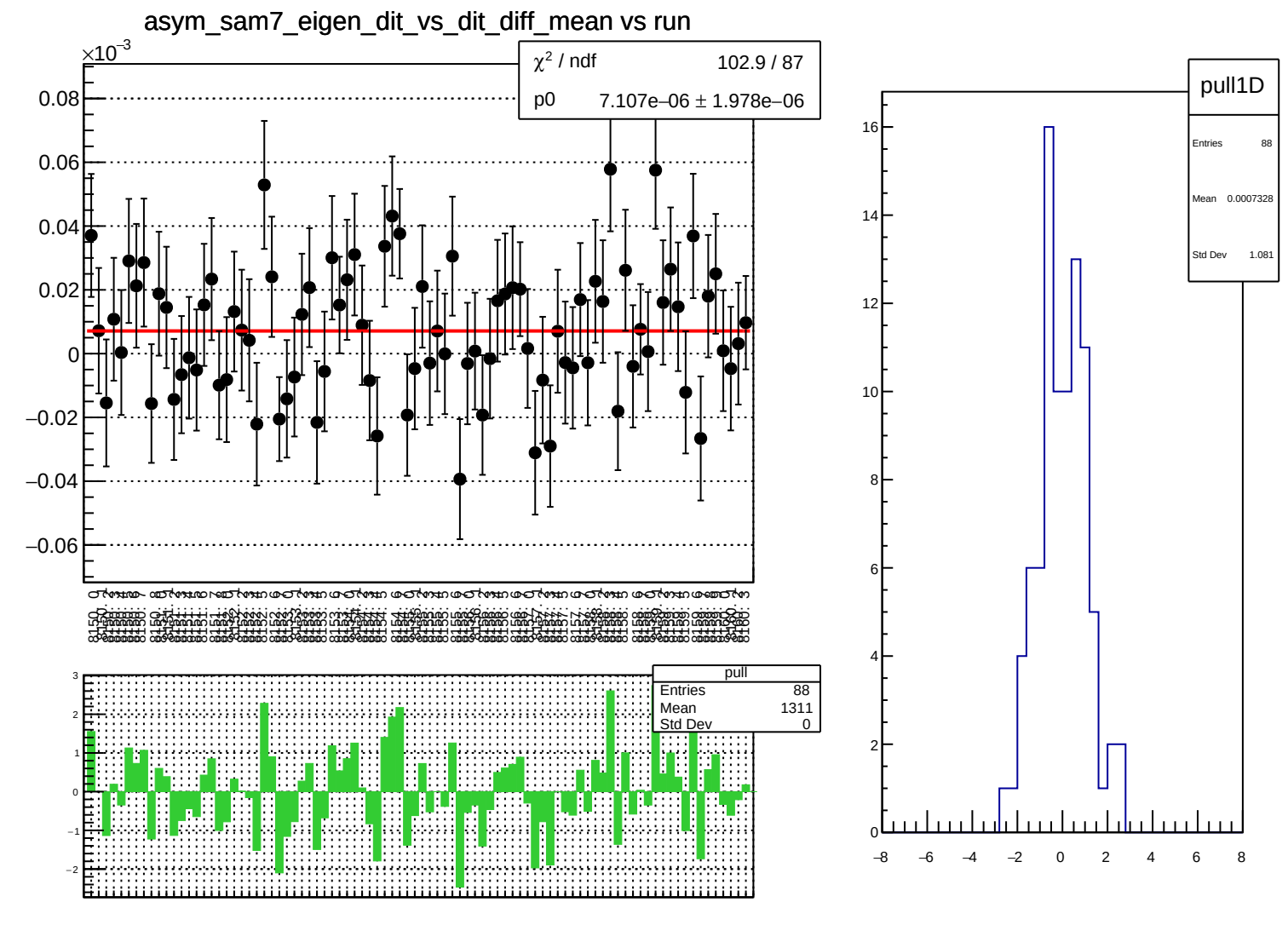

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 9.605e+05 / 87
p0 4.029e−11 ± 4.762e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

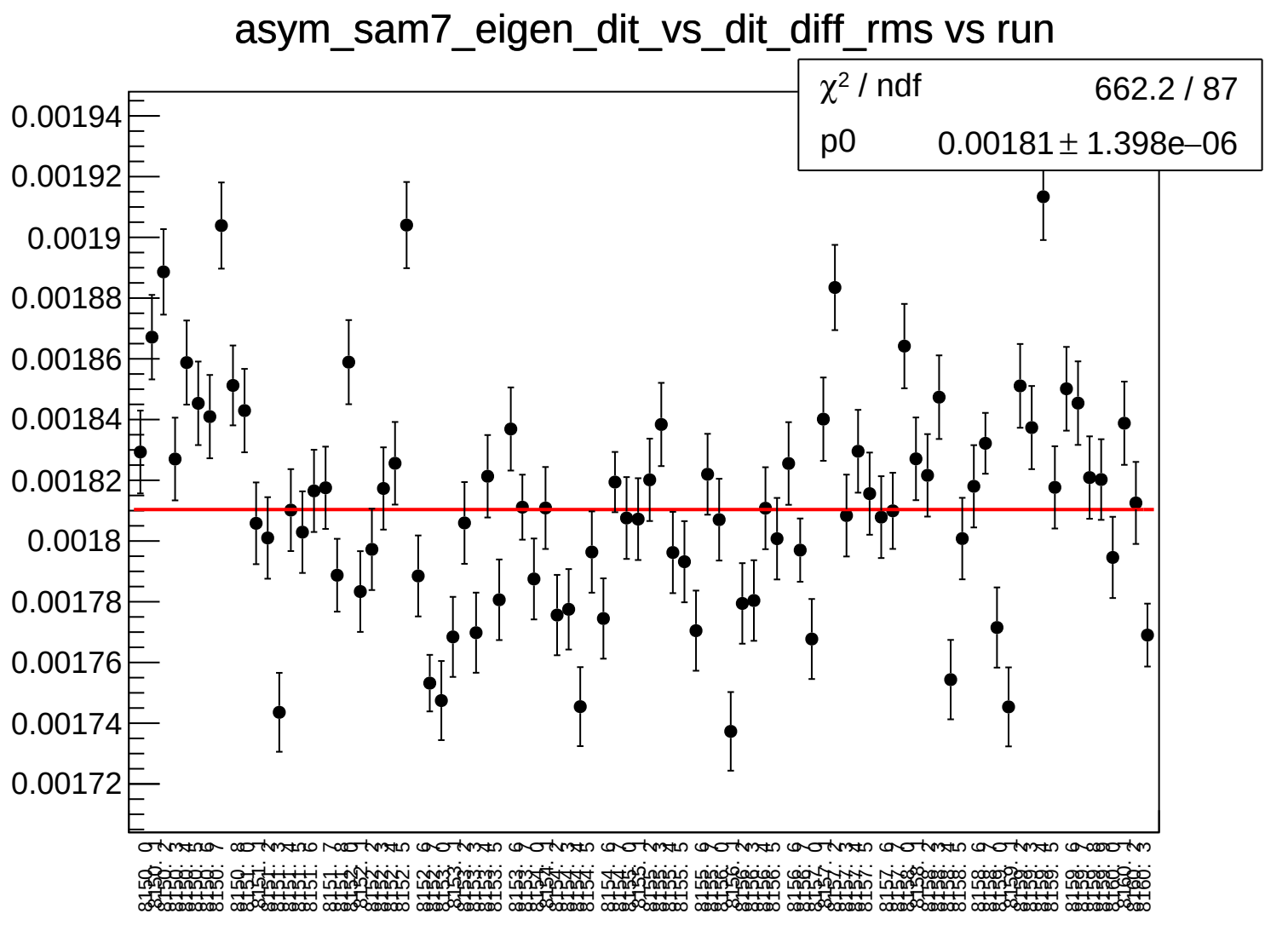

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 81.51 / 87
p0 −0.02794 ± 0.0198
pull
Entries 88
Mean 119.7
Std Dev 92.94
pull1D
Entries 88
Mean −0.003766
Std Dev 0.9624

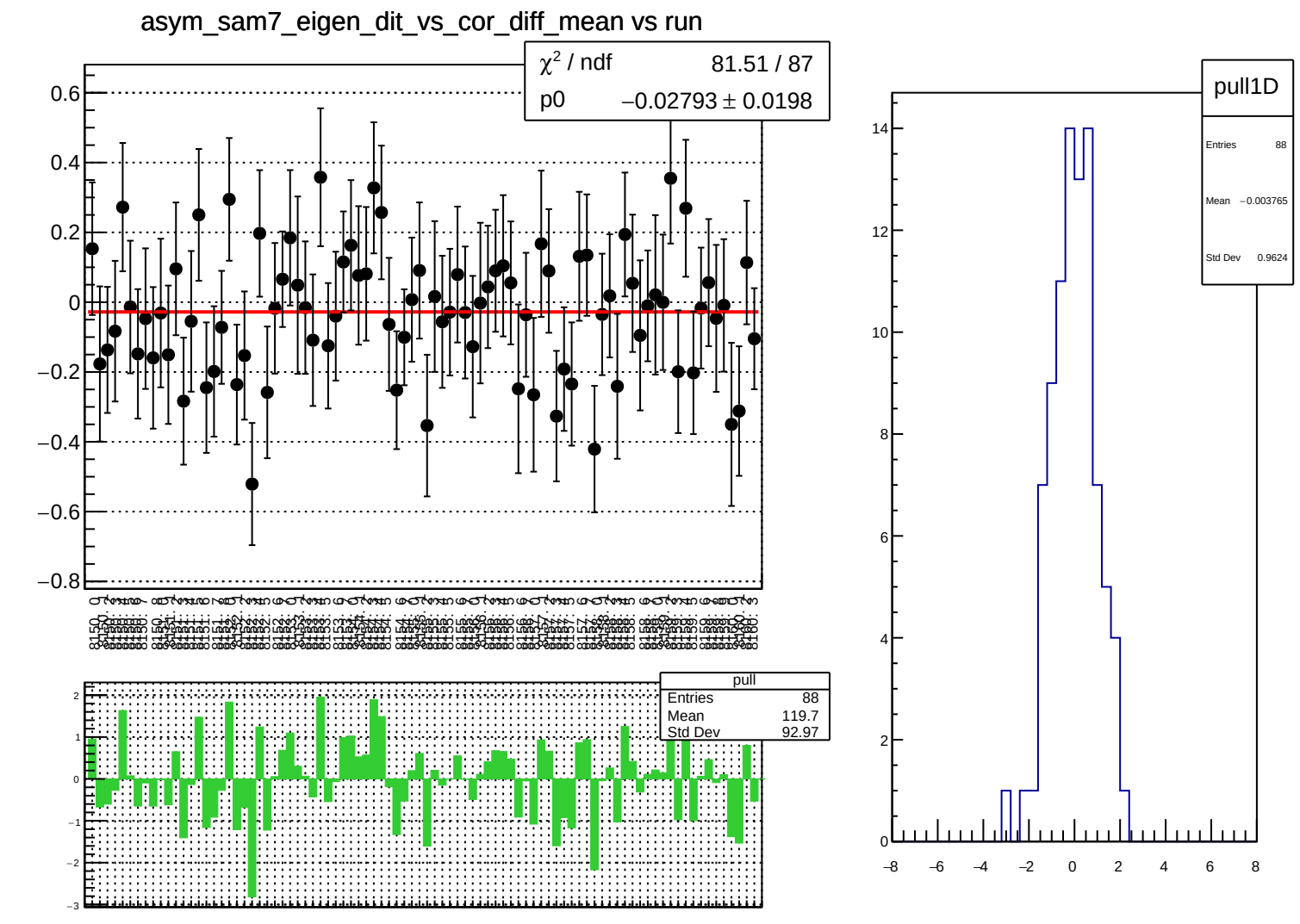

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.059e+04 / 87
p0 18.07 ± 0.014
24
22
20
18
16

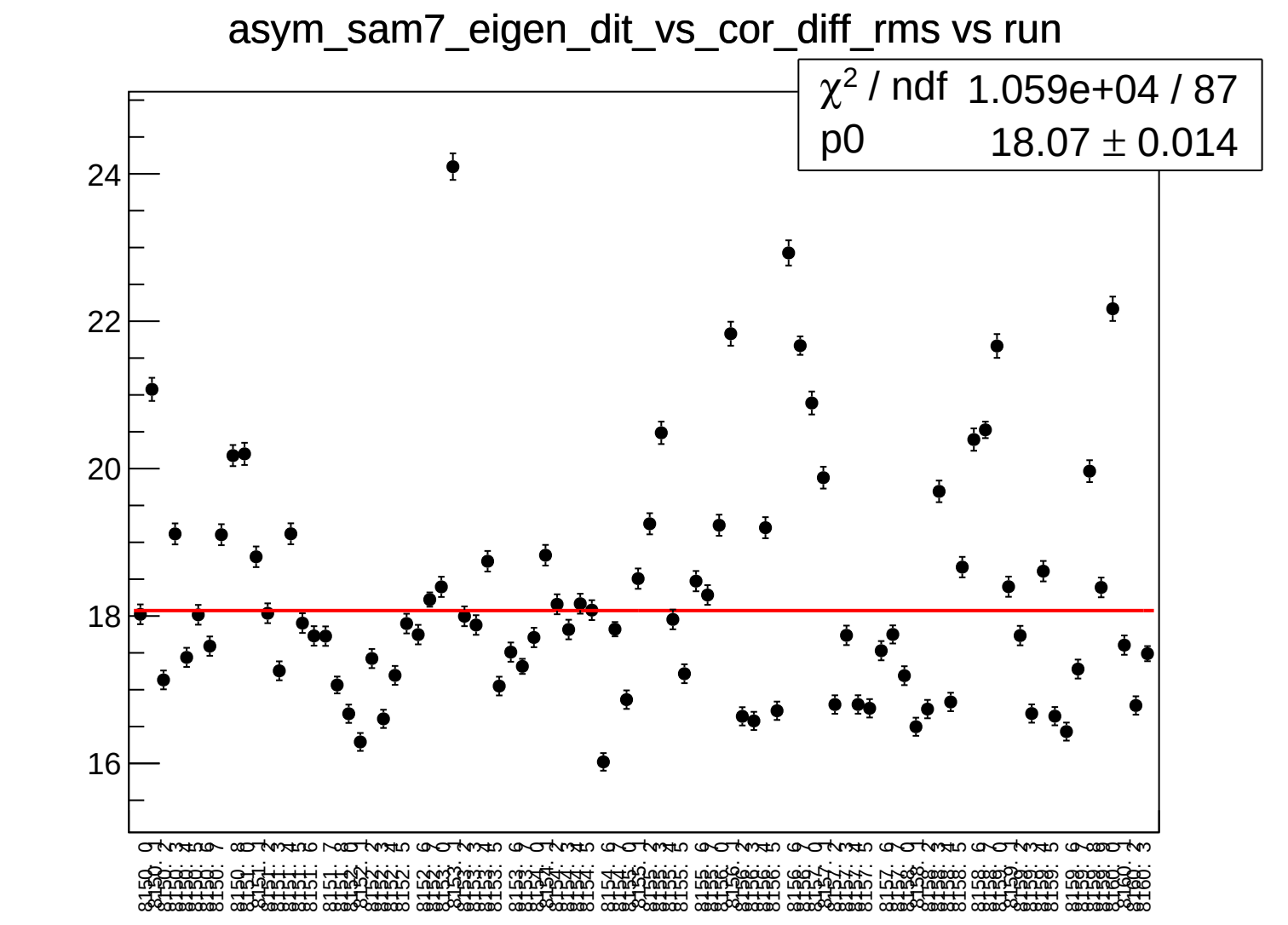

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.51 / 87
p0 −0.02794 ± 0.0198
pull
Entries 88
Mean 119.7
Std Dev 92.94
pull1D
Entries 88
Mean −0.003766
Std Dev 0.9624

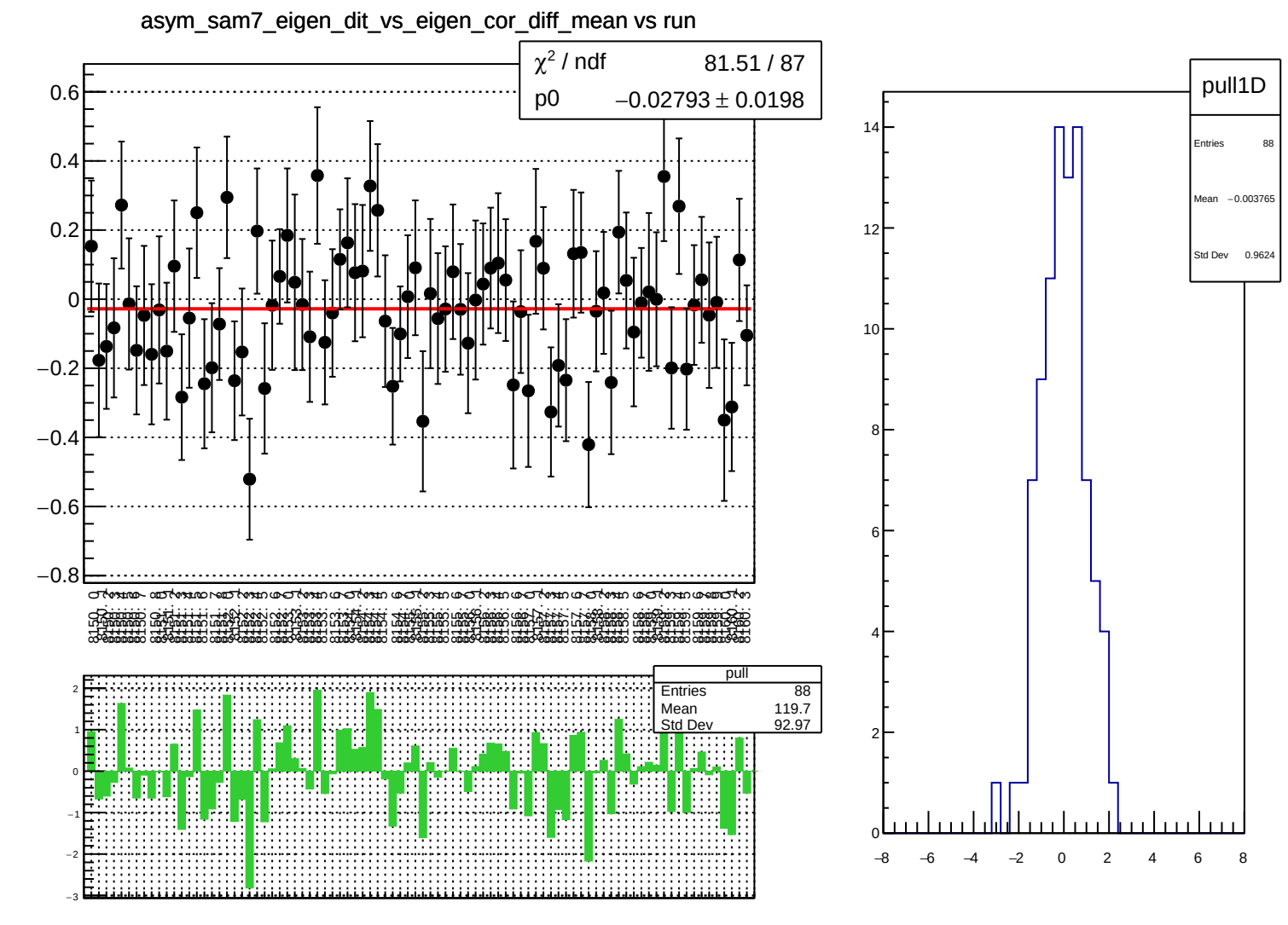

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.059e+04 / 87
p0 18.07 ± 0.014
24
22
20
18
16

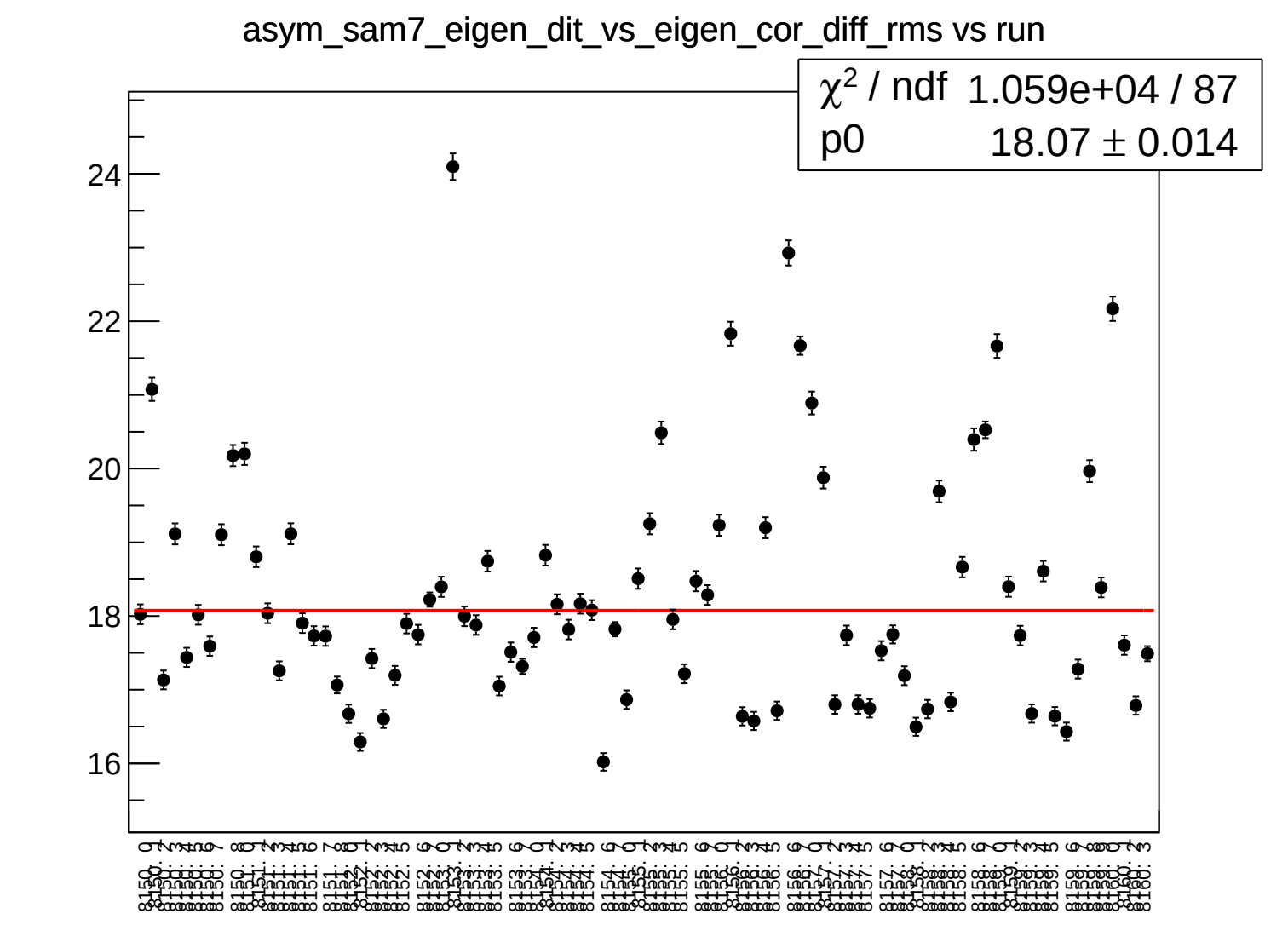

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.9 / 87
p0 7.107e−06 ± 1.978e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 1311
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0007328
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

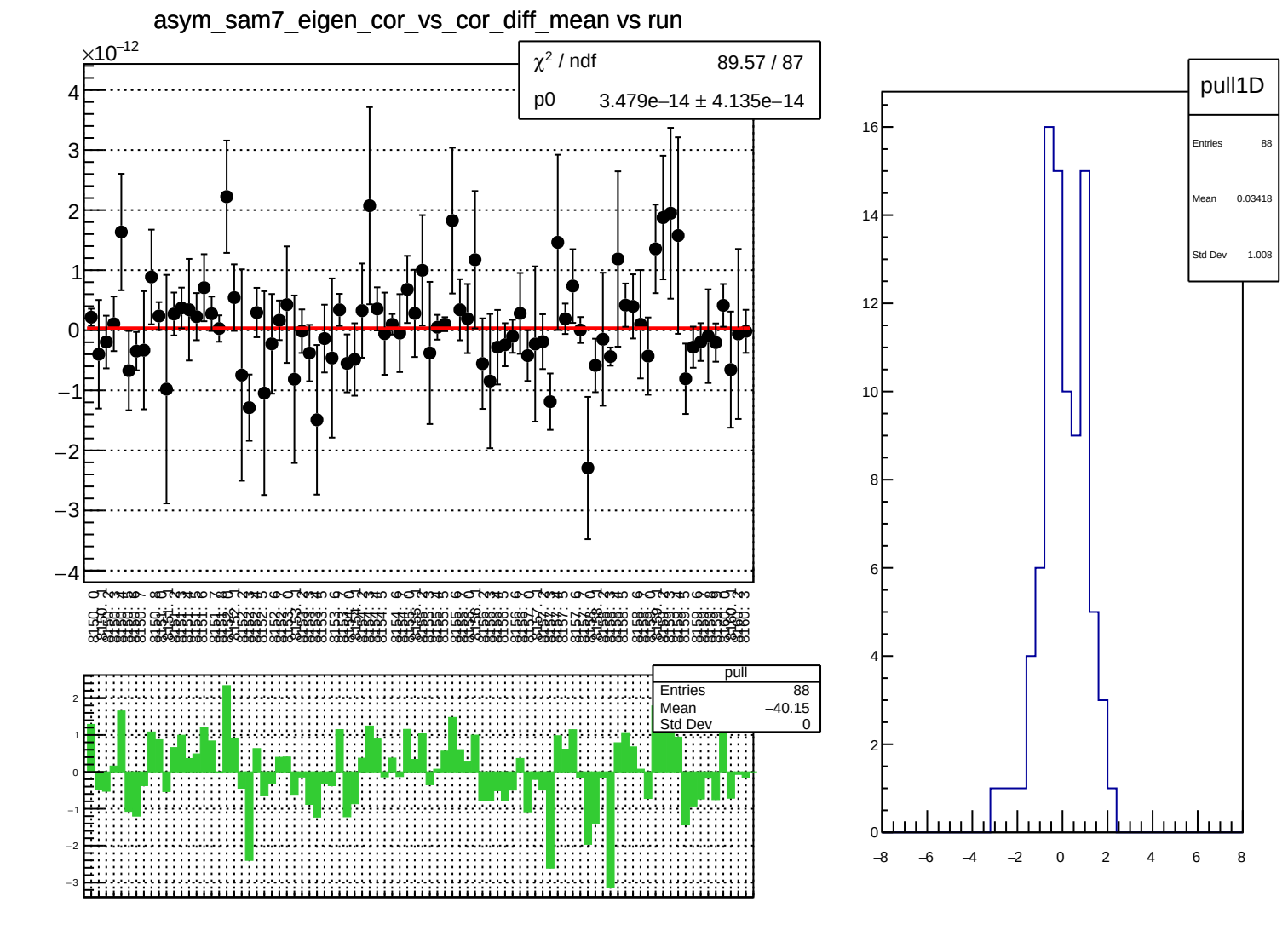

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 662.2 / 87
p0 0.00181 ± 1.398e–06
0.00194
0.00192
0.0019
0.00188
0.00186
0.00184
0.00182
0.0018
0.00178
0.00176
0.00174
0.00172

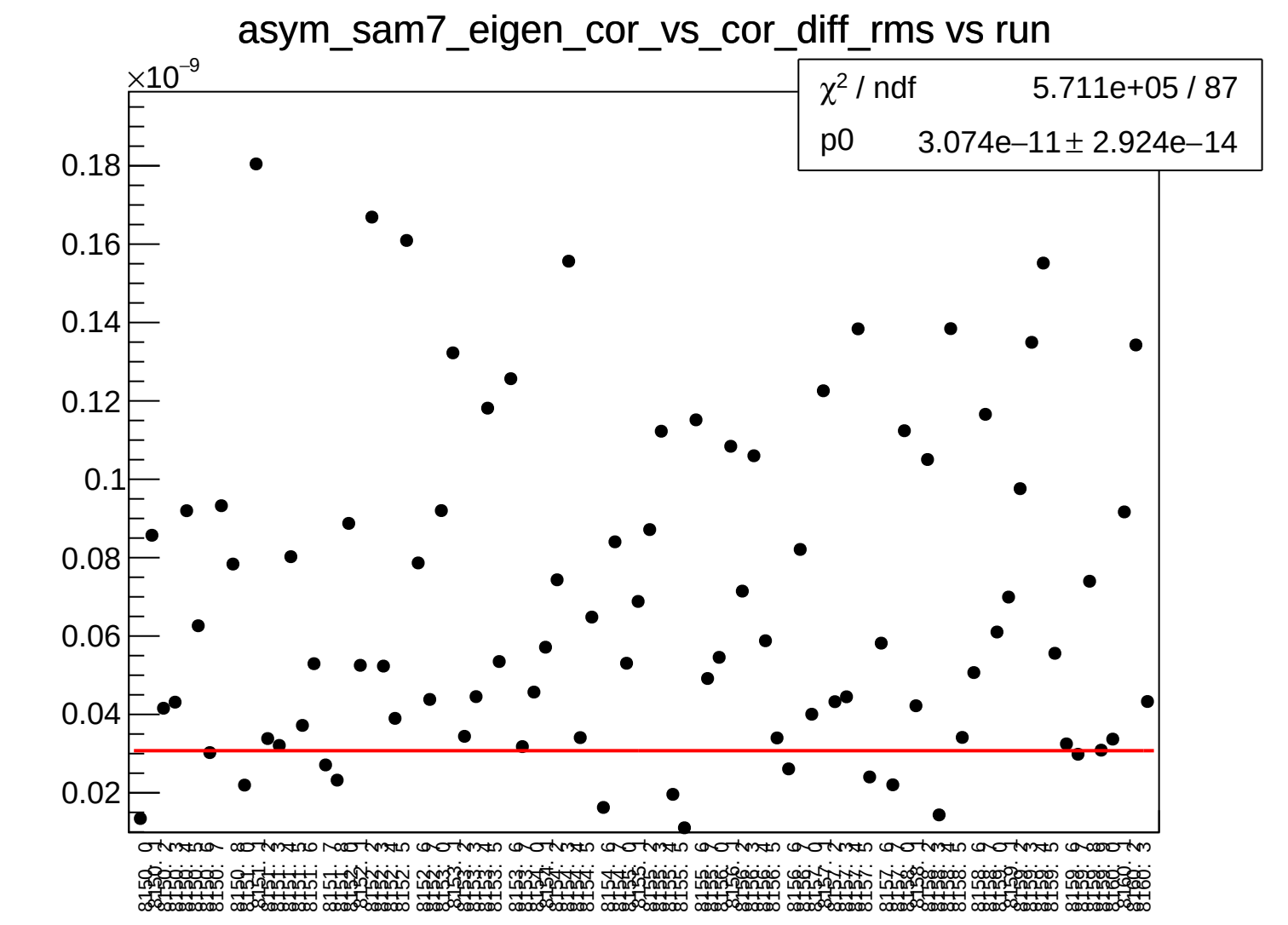

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.51 / 87
p0 −0.02793 ± 0.0198
pull
Entries 88
Mean 119.7
Std Dev 92.97
pull1D
Entries 88
Mean −0.003765
Std Dev 0.9624

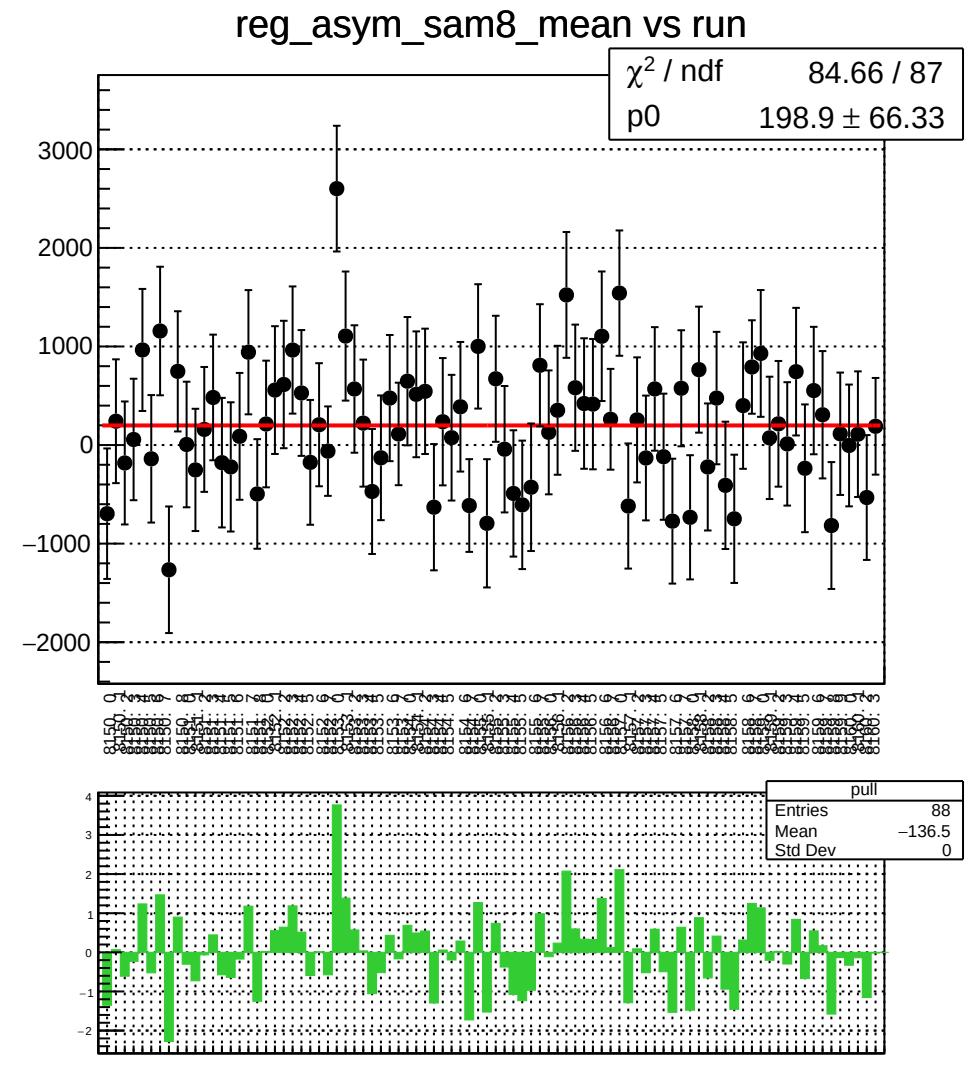

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.059e+04 / 87
p0 18.07 ± 0.014
24
22
20
18
16

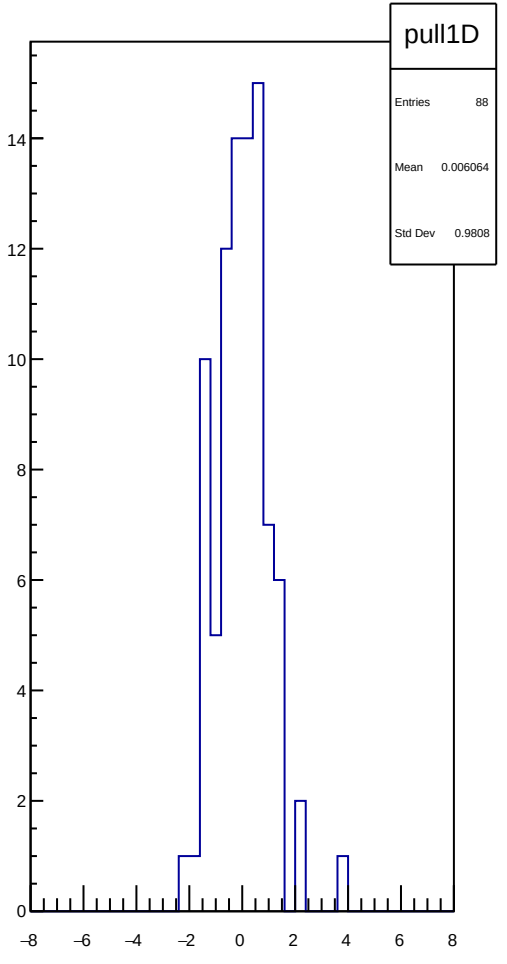

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.51 / 87
p0 −0.02793 ± 0.0198
pull
Entries 88
Mean 119.7
Std Dev 92.97
pull1D
Entries 88
Mean −0.003765
Std Dev 0.9624

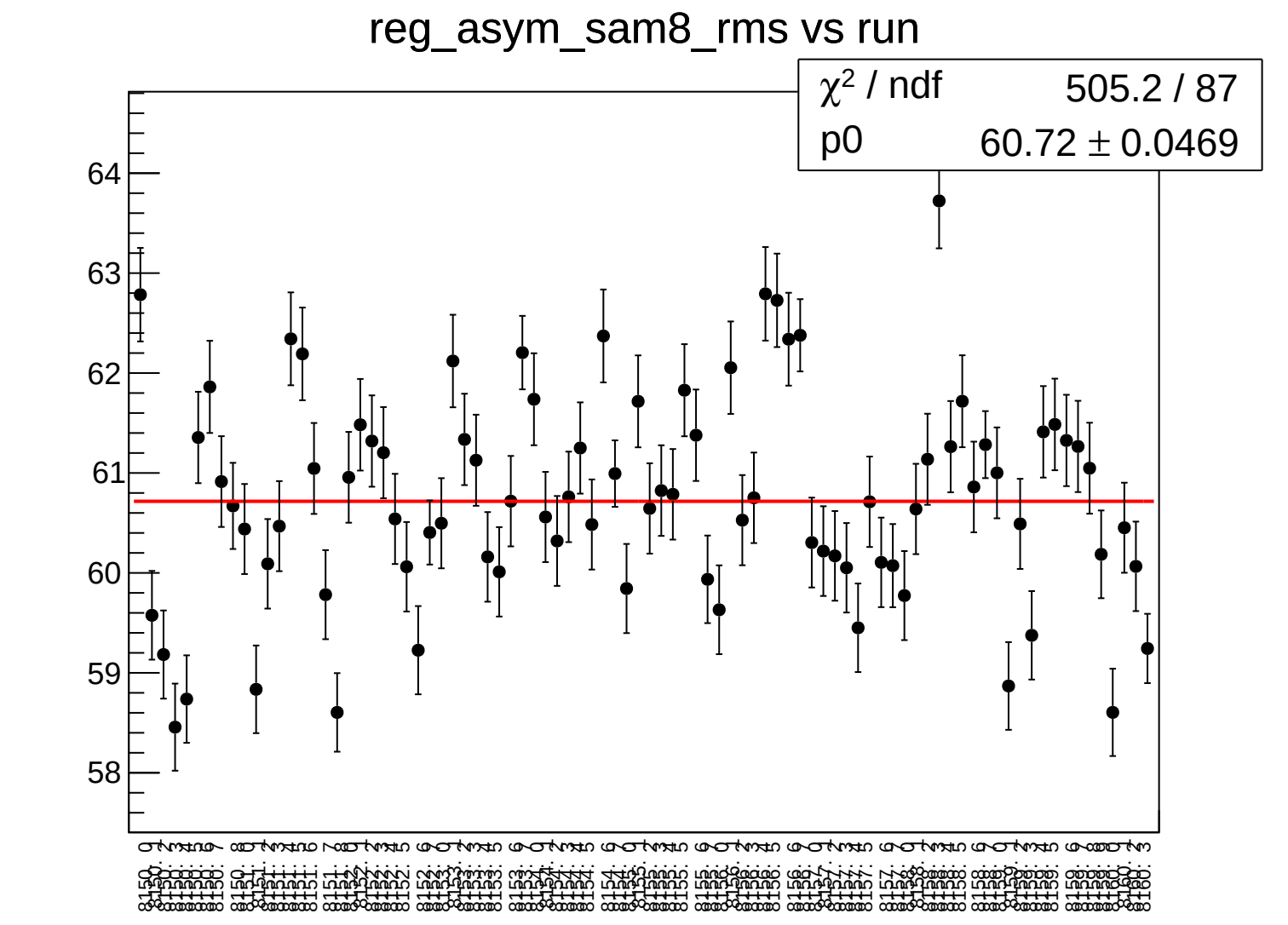

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.059e+04 / 87
p0 18.07 ± 0.014
24
22
20
18
16

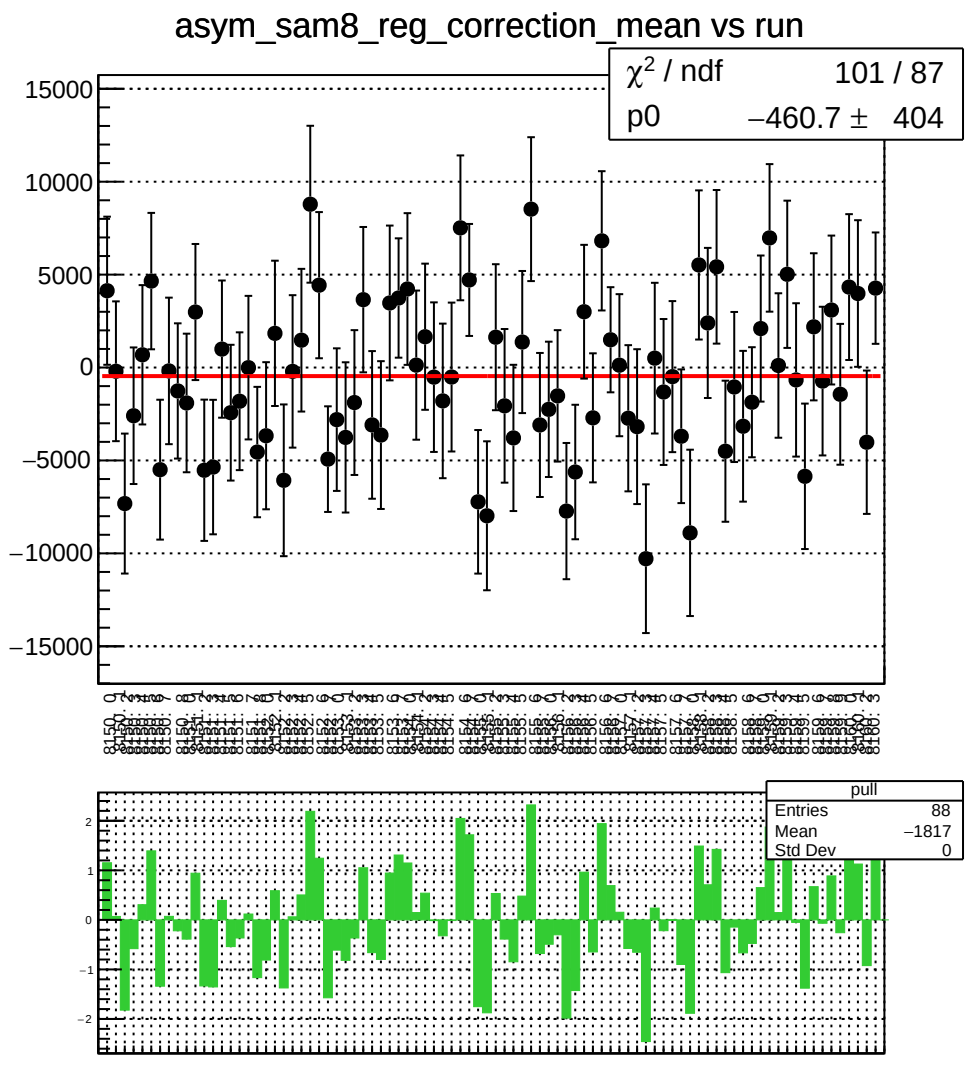

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.57 / 87
p0 3.479e−14 ± 4.135e−14
pull
Entries 88
Mean −40.15
Std Dev 0
pull1D
Entries 88
Mean 0.03418
Std Dev 1.008

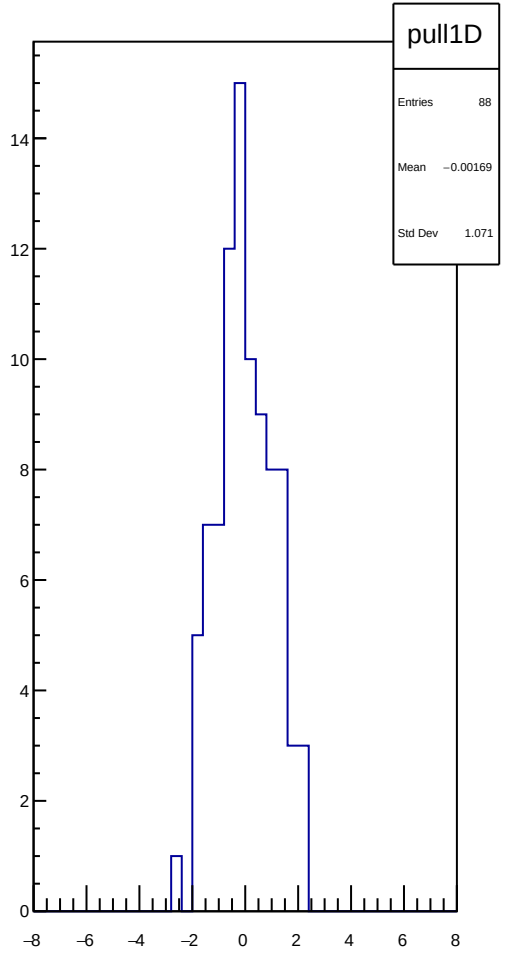

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.711e+05 / 87
p0 3.074e−11 ± 2.924e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

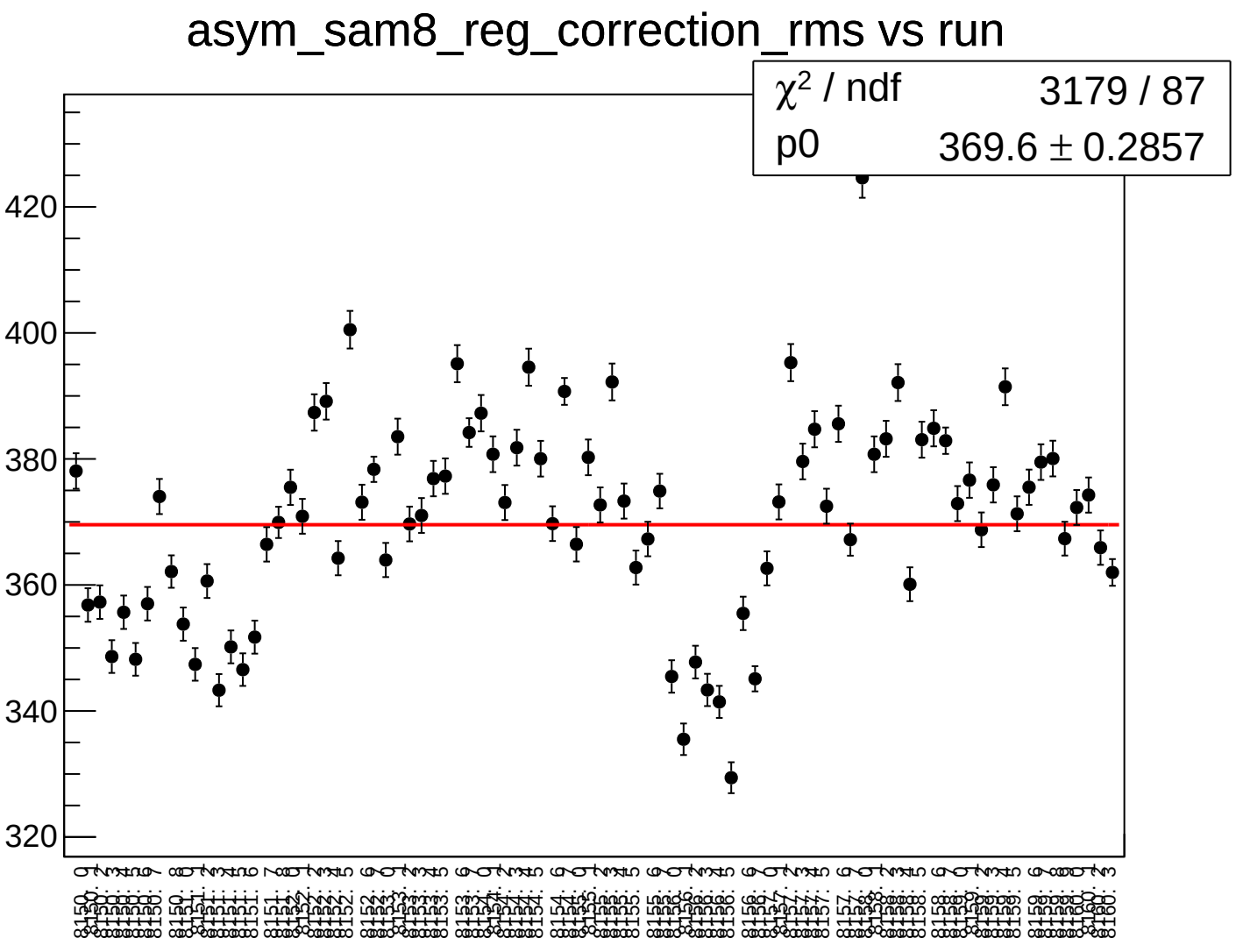

reg_asym_sam8_mean vs run
χ² / ndf 84.66 / 87
p0 198.9 ± 66.33
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −136.5
Std Dev 0
4
3
2
1
0
−1
−2

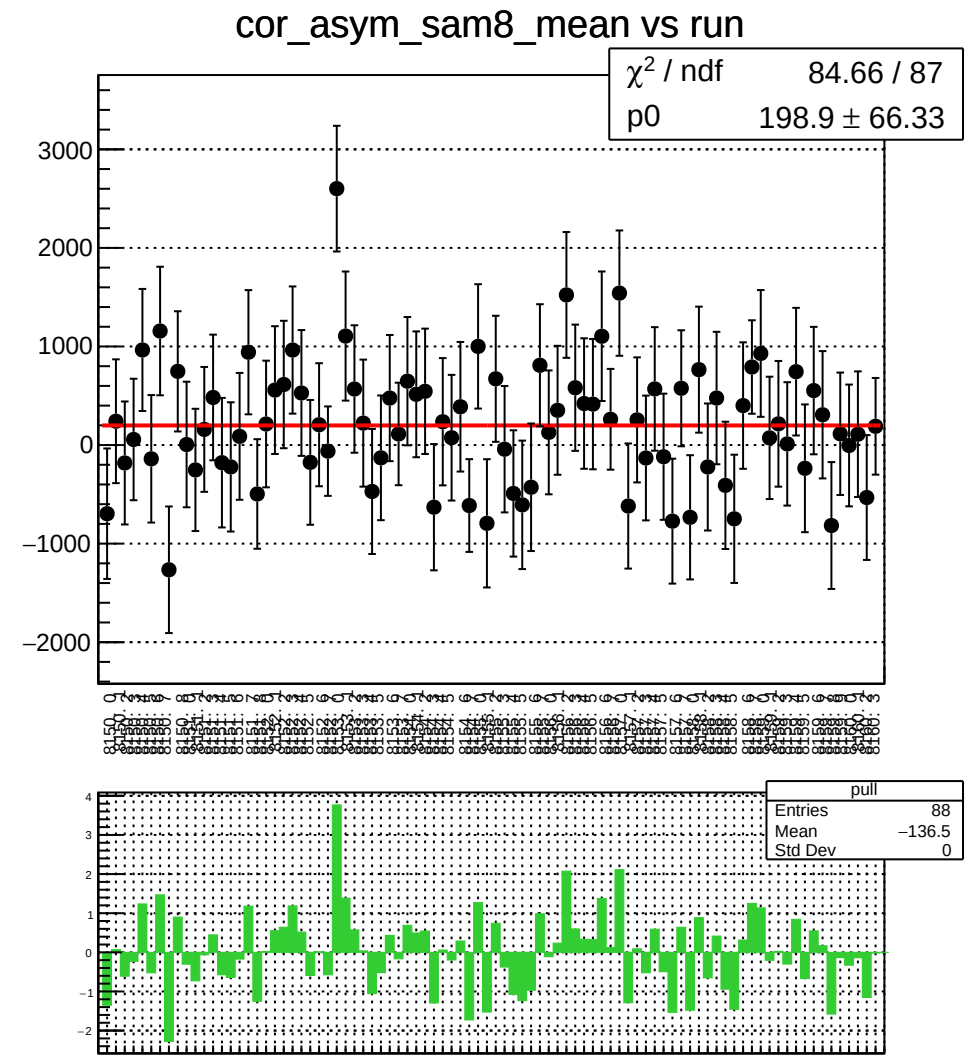

pull1D
Entries 88
Mean 0.006064
Std Dev 0.9808
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

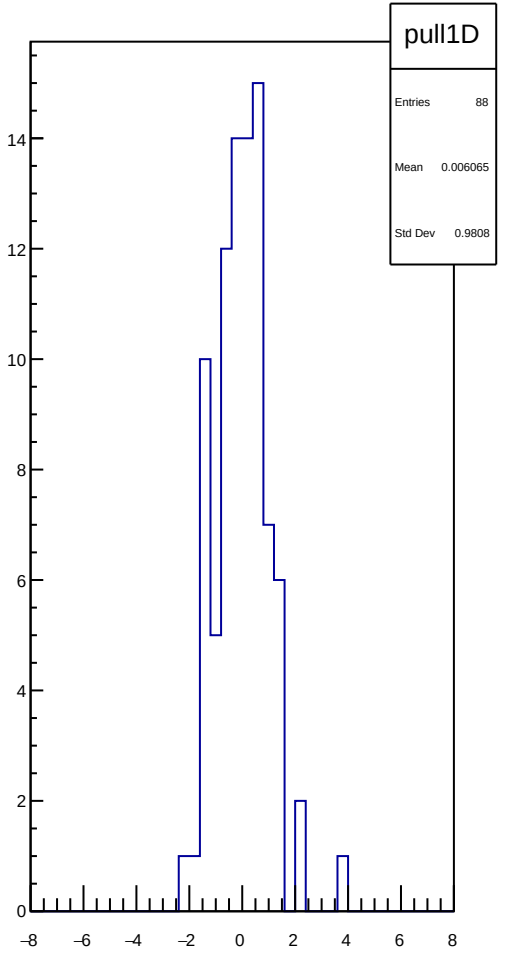

reg_asym_sam8_rms vs run
χ² / ndf 505.2 / 87
p0 60.72 ± 0.0469
64
63
62
61
60
59
58

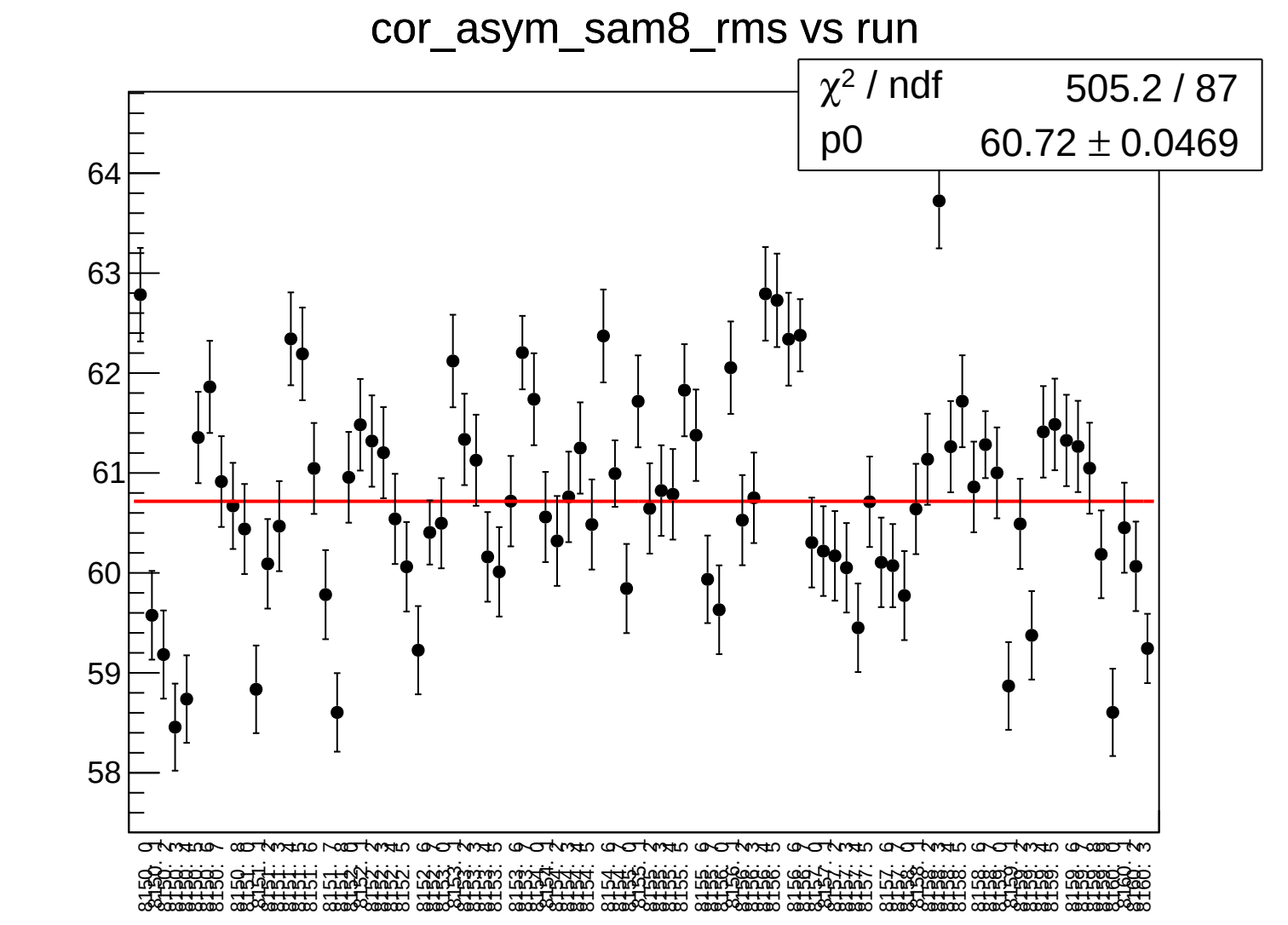

asym_sam8_reg_correction_mean vs run
χ² / ndf 101 / 87
p0 −460.7 ± 404
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1817
Std Dev 0
2
1
0
−1
−2

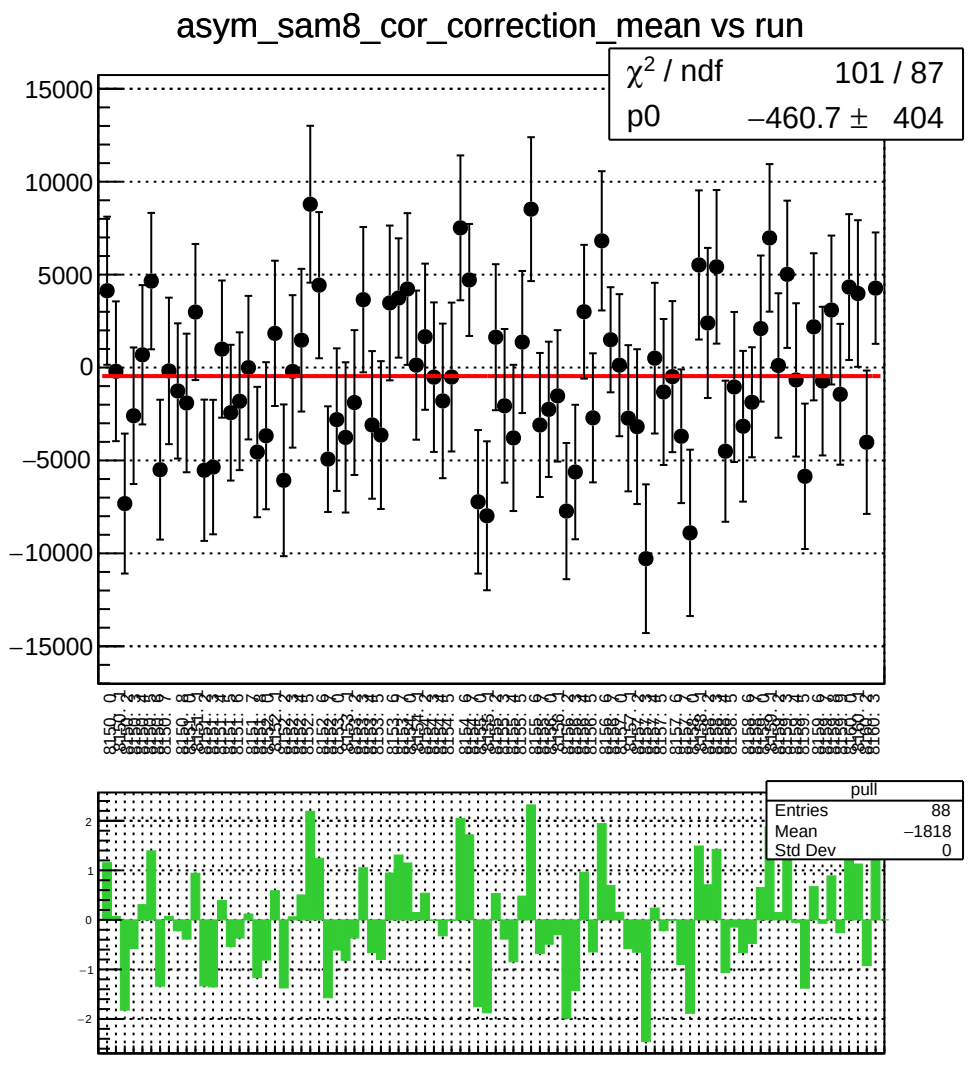

pull1D
Entries 88
Mean −0.00169
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

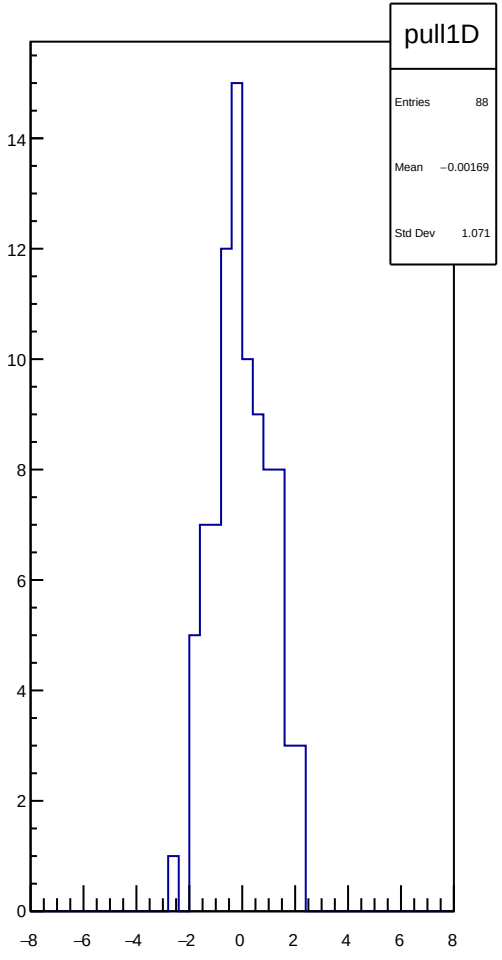

asym_sam8_reg_correction_rms vs run
χ² / ndf 3179 / 87
p0 369.6 ± 0.2857
420
400
380
360
340
320

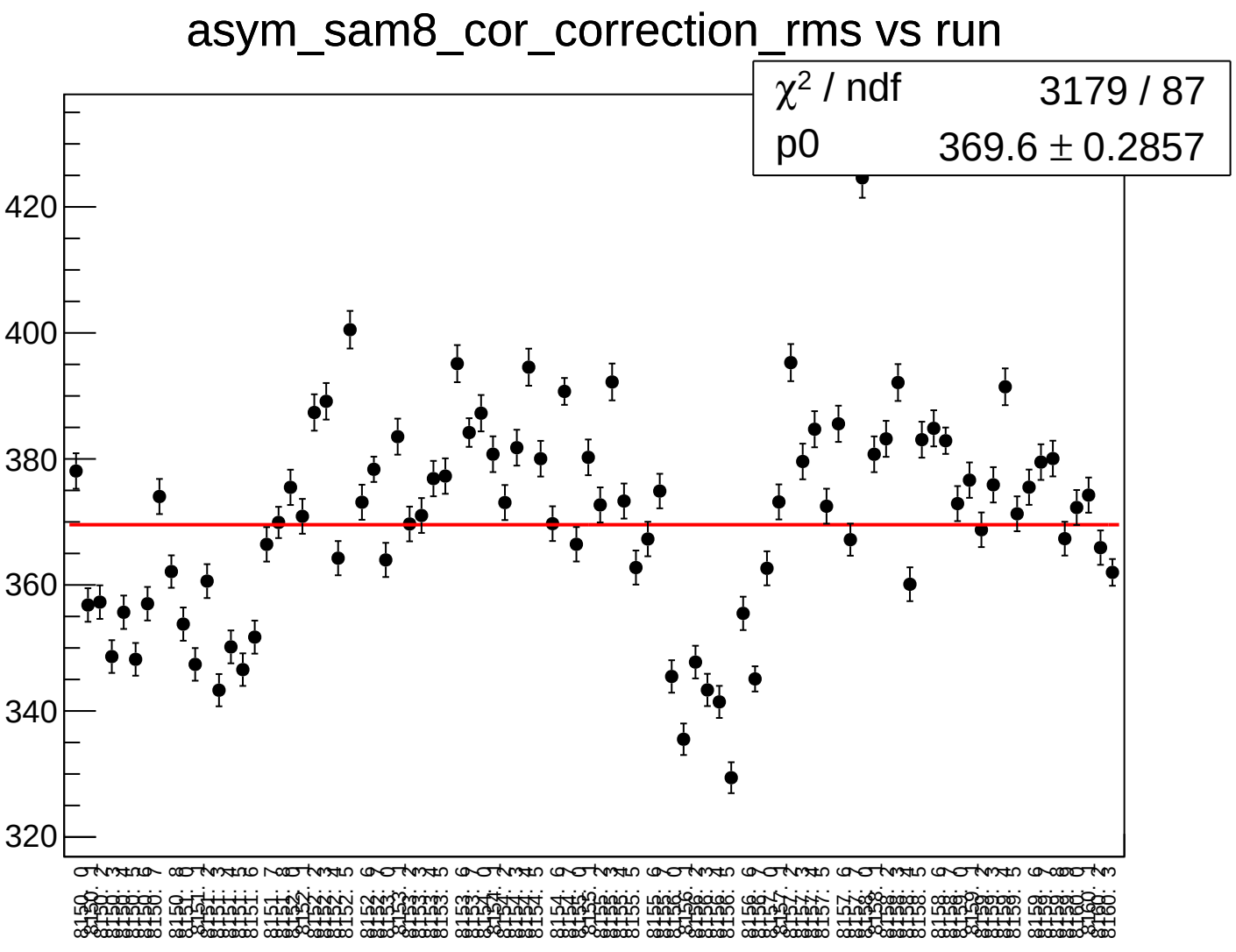

cor_asym_sam8_mean vs run
χ² / ndf 84.66 / 87
p0 198.9 ± 66.33
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −136.5
Std Dev 0
4
3
2
1
0
−1
−2

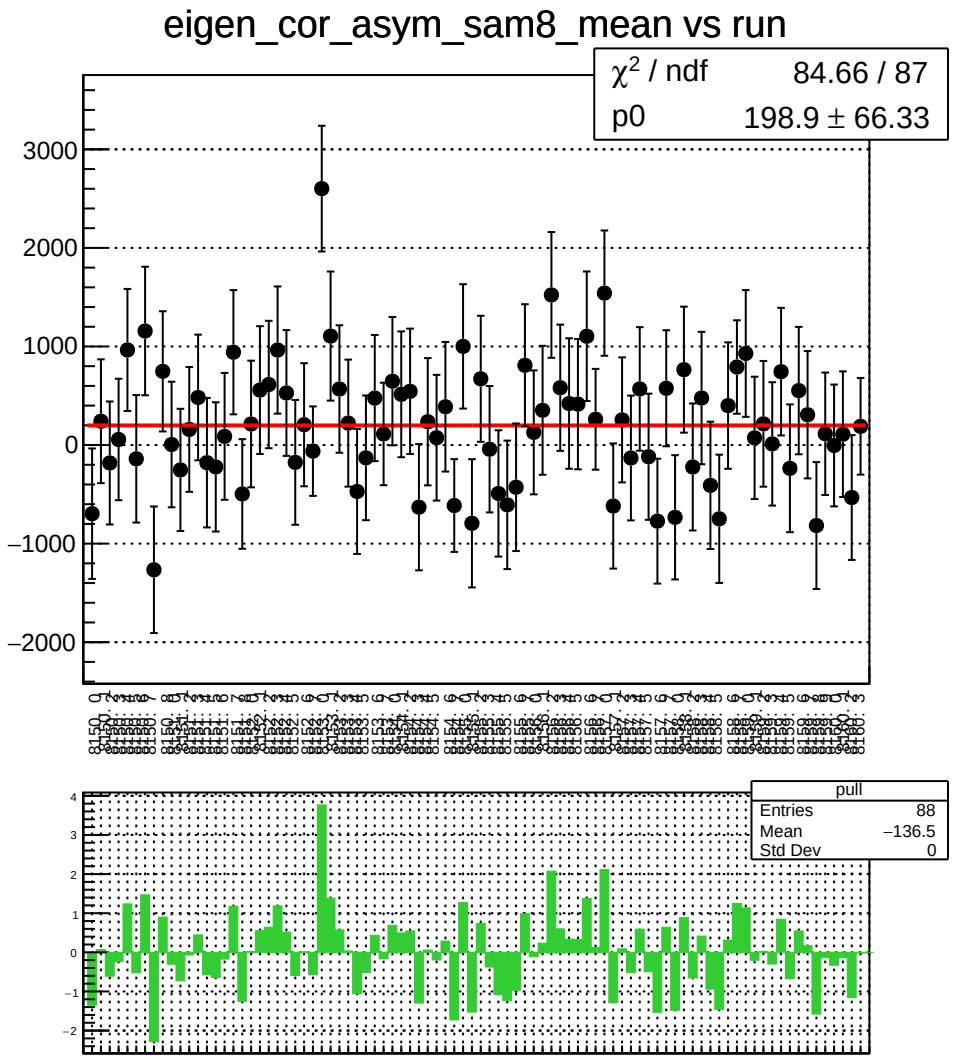

pull1D
Entries 88
Mean 0.006065
Std Dev 0.9808
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

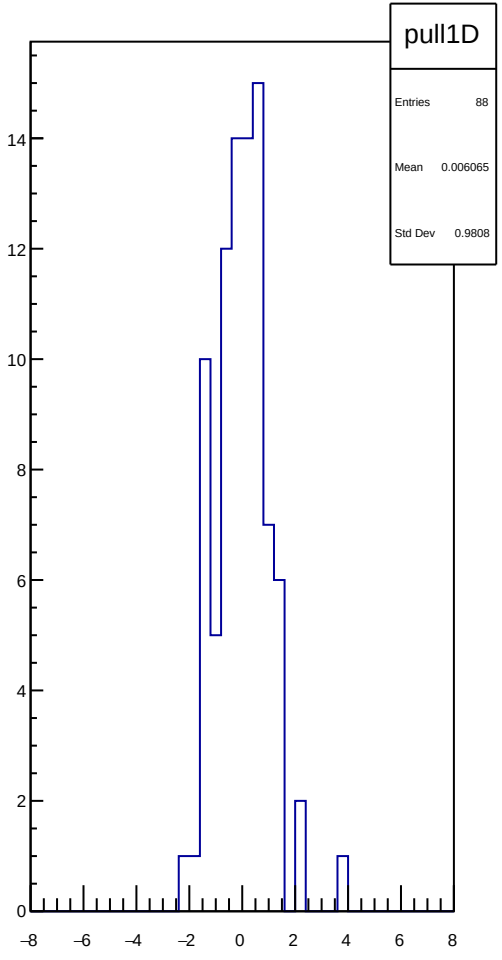

cor_asym_sam8_rms vs run
χ² / ndf 505.2 / 87
p0 60.72 ± 0.0469
64
63
62
61
60
59
58

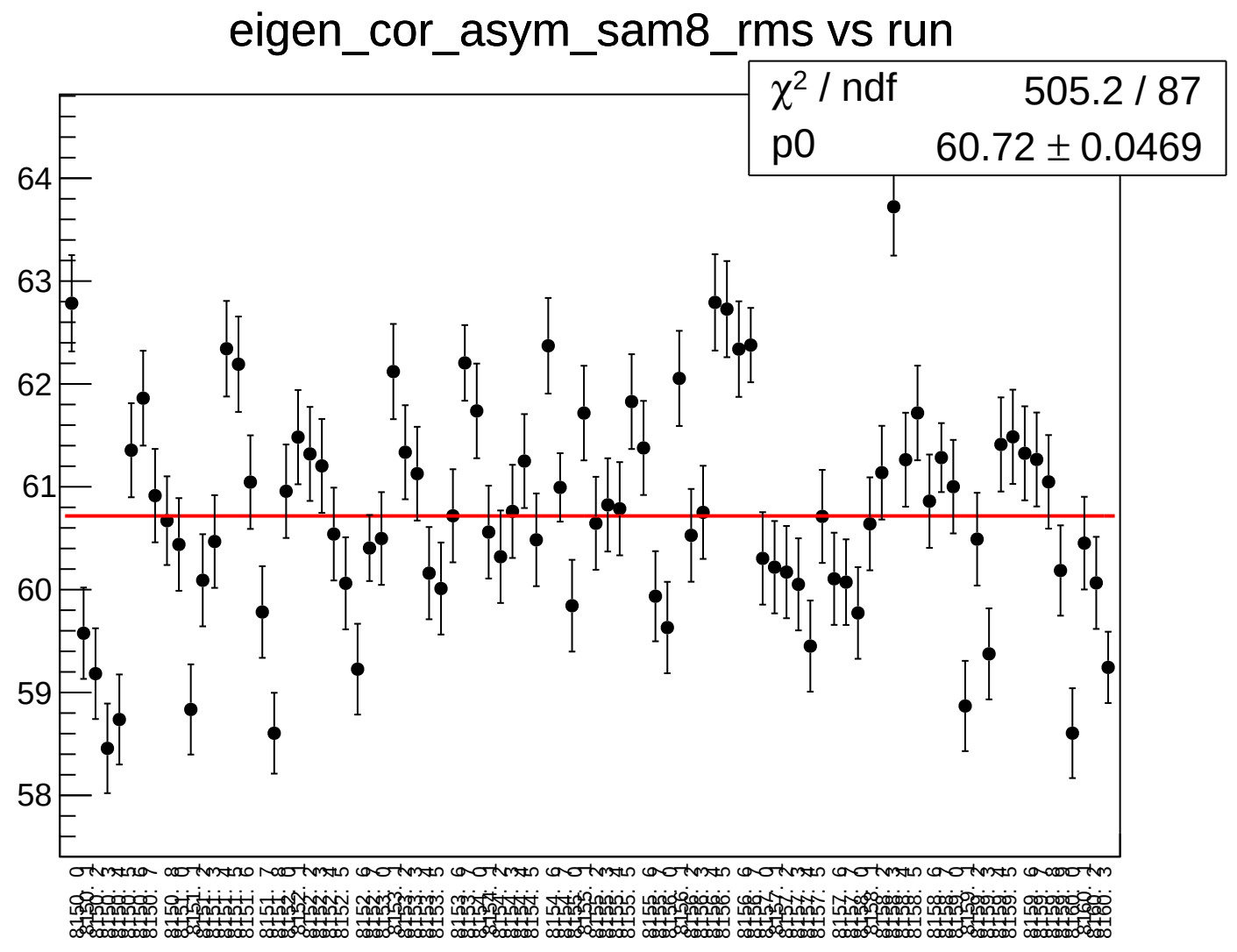

asym_sam8_cor_correction_mean vs run
χ² / ndf 101 / 87
p0 −460.7 ± 404
pull
Entries 88
Mean −1818
Std Dev 0

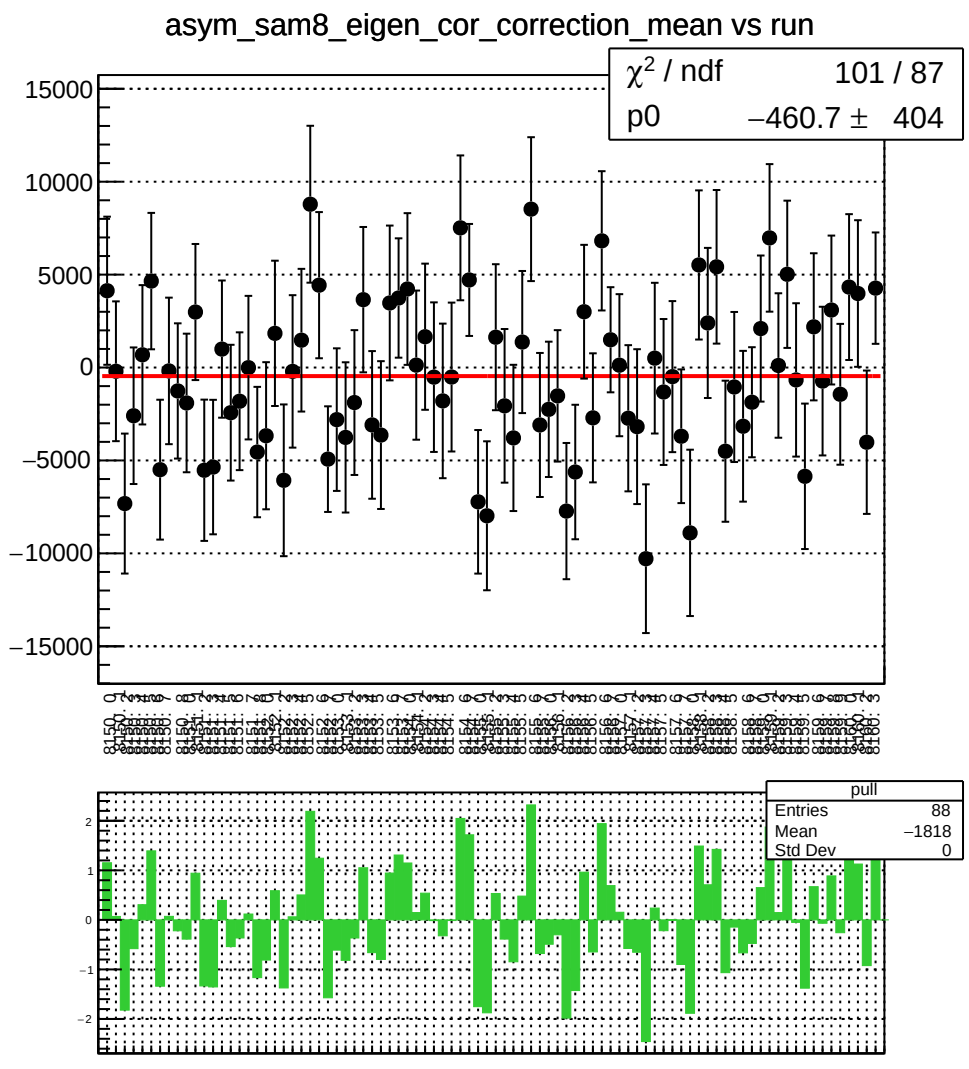

pull1D
Entries 88
Mean −0.00169
Std Dev 1.071

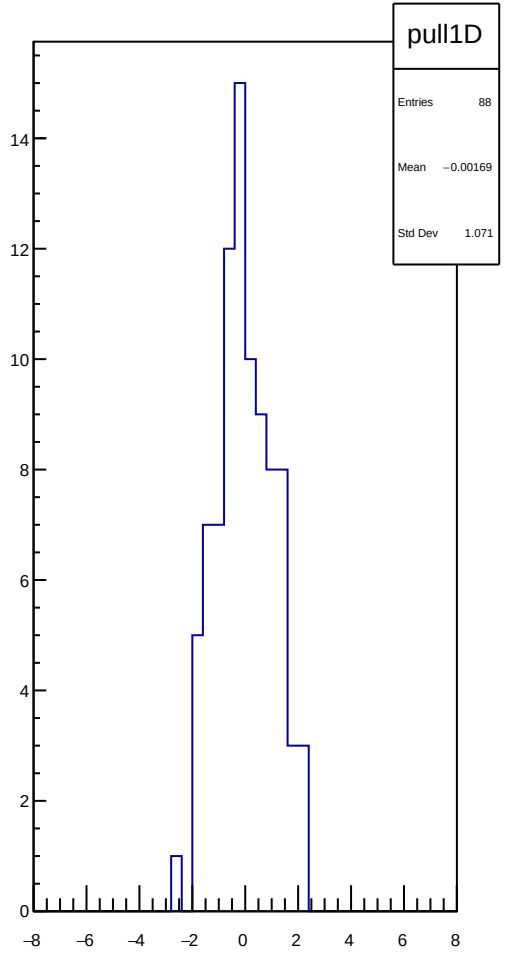

asym_sam8_cor_correction_rms vs run
χ² / ndf 3179 / 87
p0 369.6 ± 0.2857
420
400
380
360
340
320

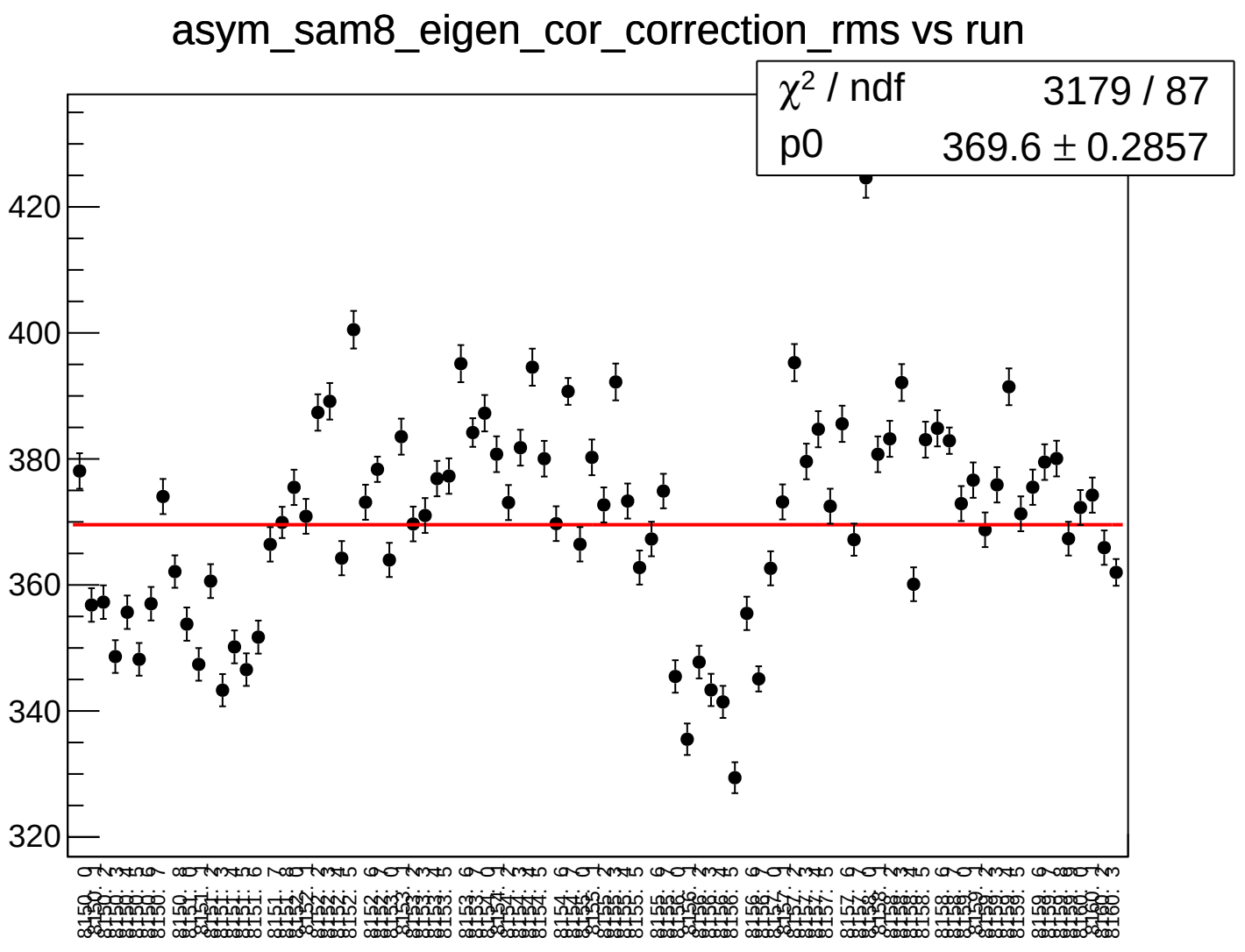

eigen_cor_asym_sam8_mean vs run
χ² / ndf 84.66 / 87
p0 198.9 ± 66.33
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −136.5
Std Dev 0
4
3
2
1
0
−1
−2

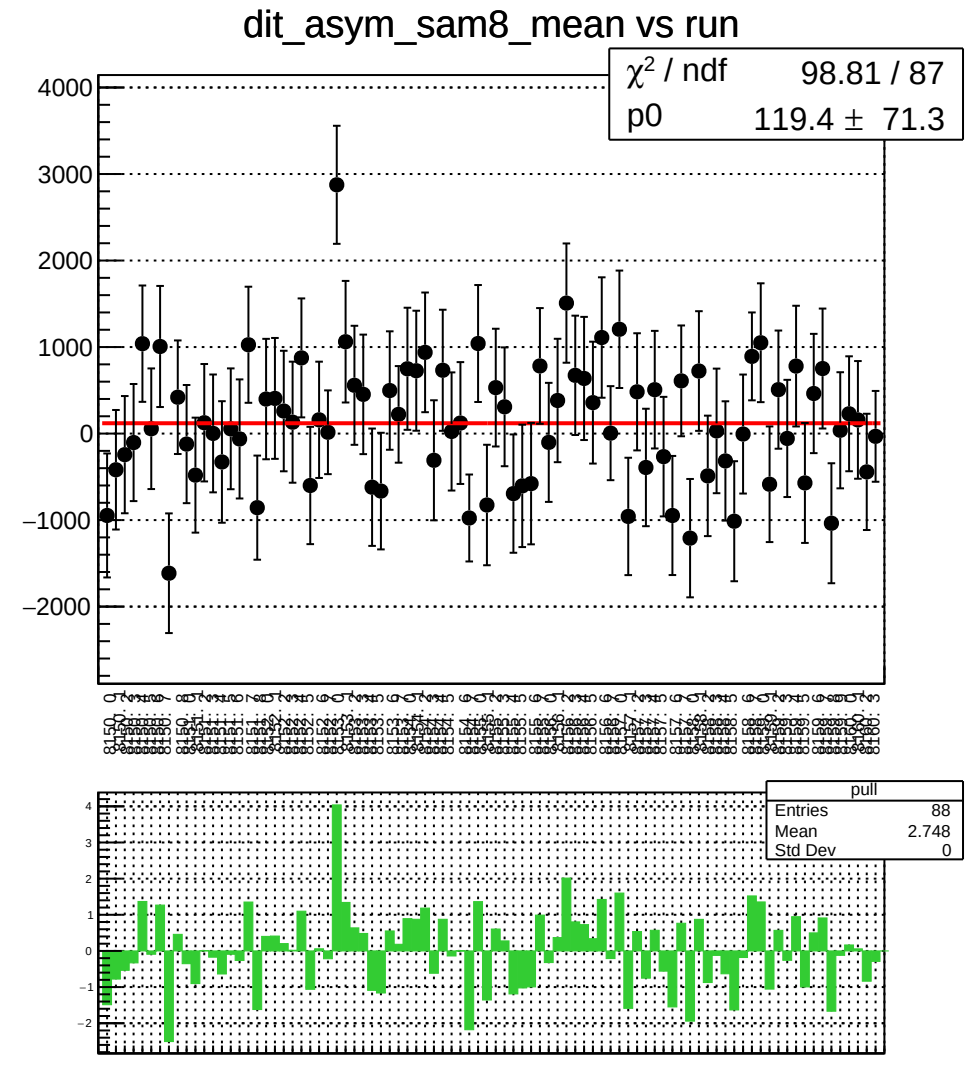

pull1D
Entries 88
Mean 0.006065
Std Dev 0.9808
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

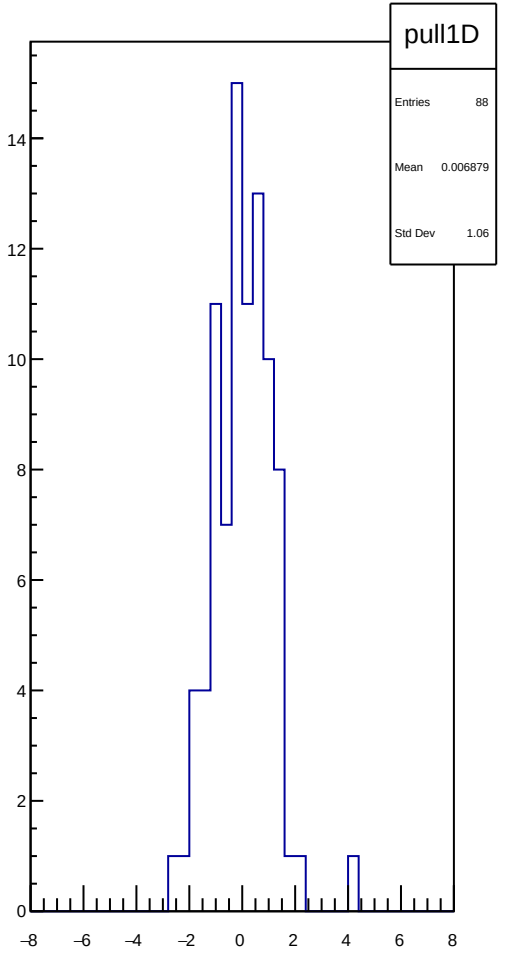

eigen_cor_asym_sam8_rms vs run
χ² / ndf 505.2 / 87
p0 60.72 ± 0.0469
64
63
62
61
60
59
58

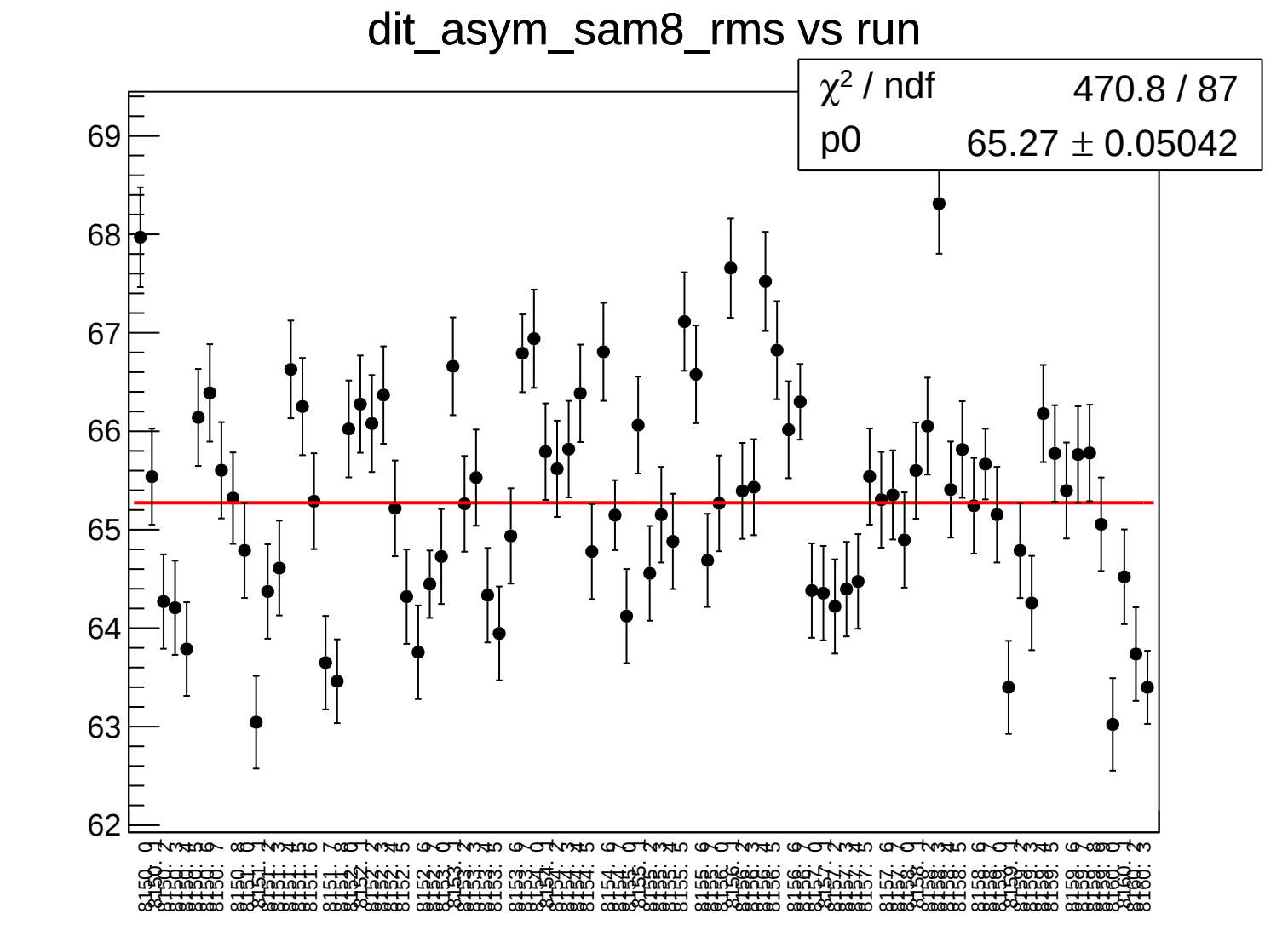

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 101 / 87
p0 −460.7 ± 404
pull
Entries 88
Mean −1818
Std Dev 0

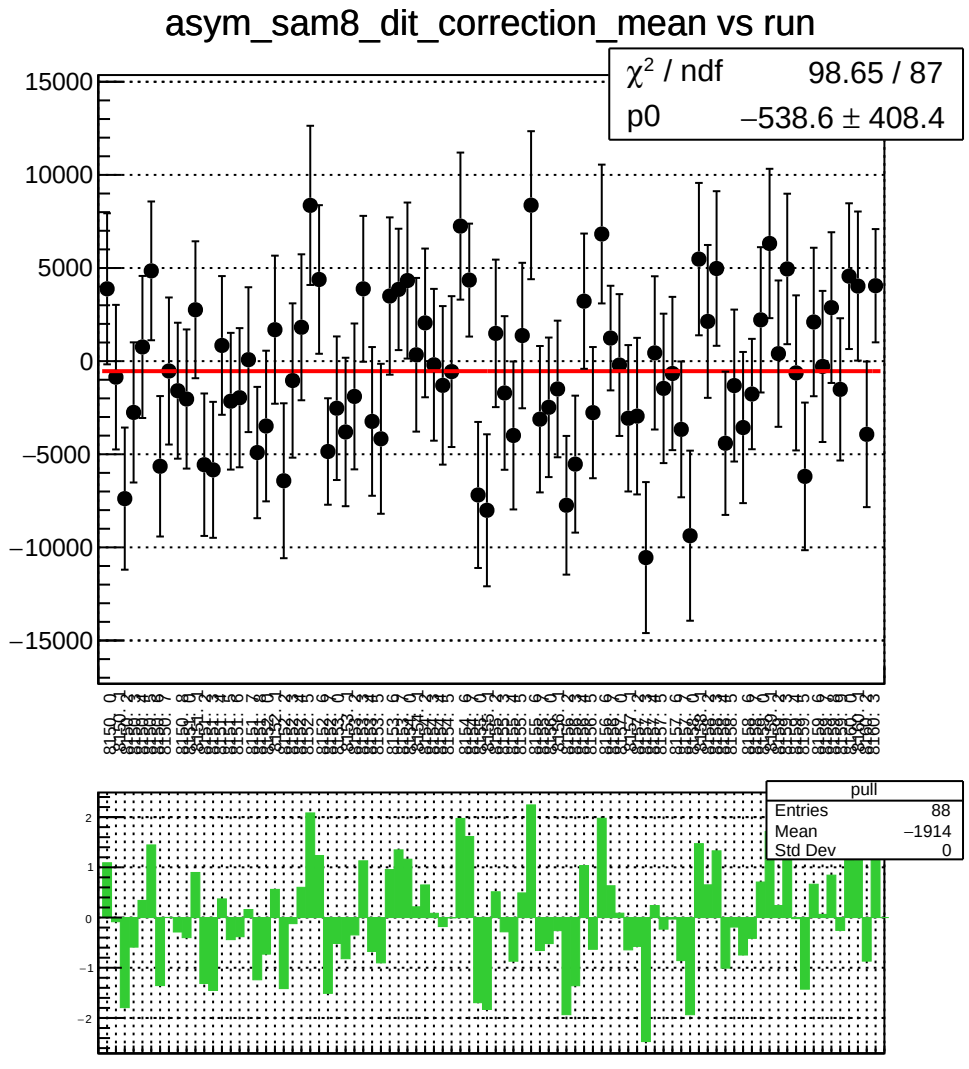

pull1D
Entries 88
Mean −0.00169
Std Dev 1.071

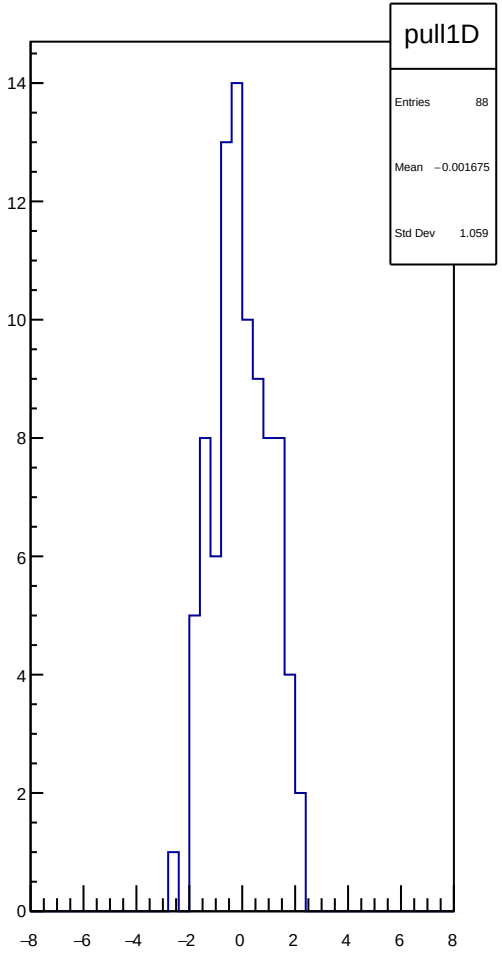

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 3179 / 87
p0 369.6 ± 0.2857
420
400
380
360
340
320

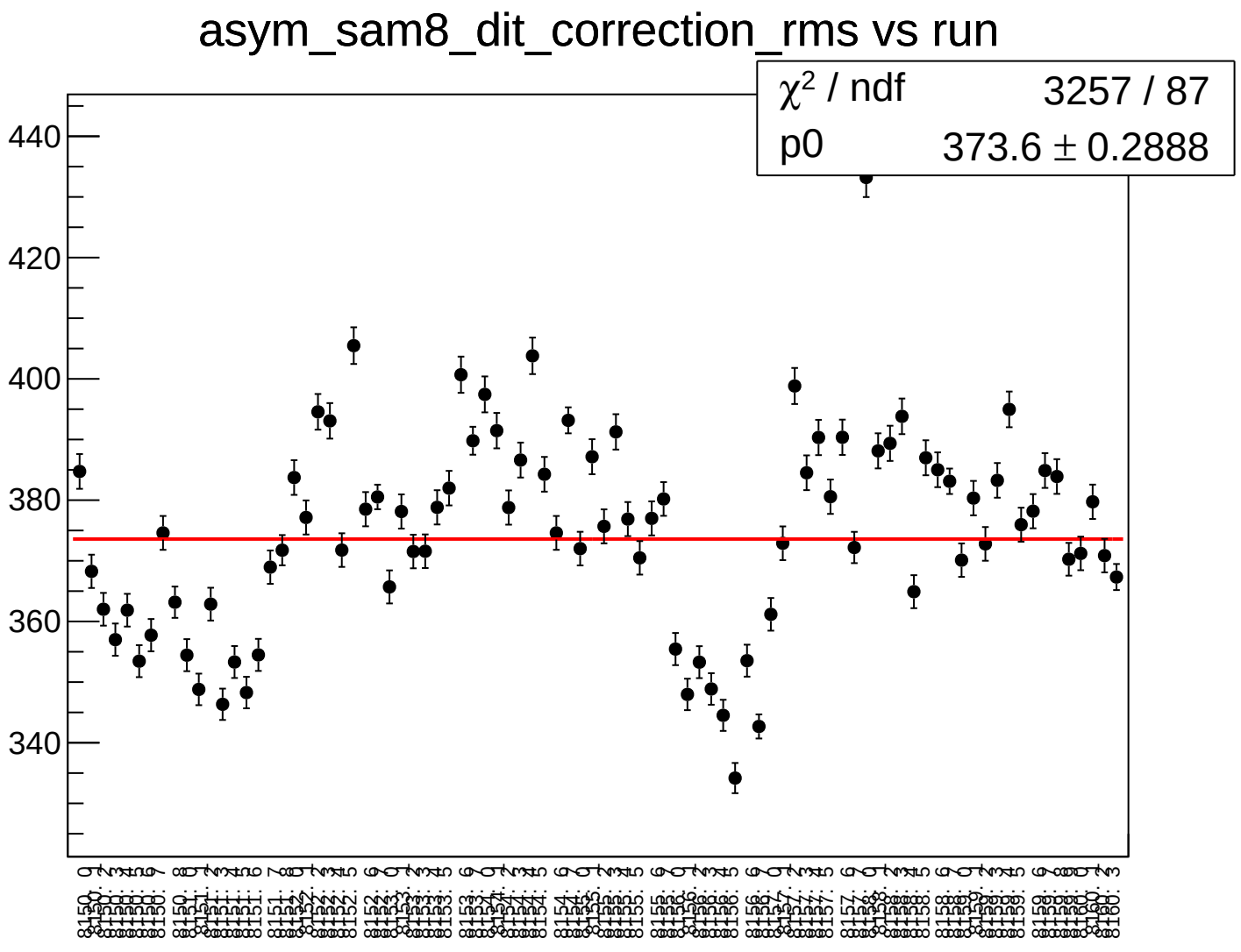

dit_asym_sam8_mean vs run
χ² / ndf 98.81 / 87
p0 119.4 ± 71.3
pull
Entries 88
Mean 2.748
Std Dev 0

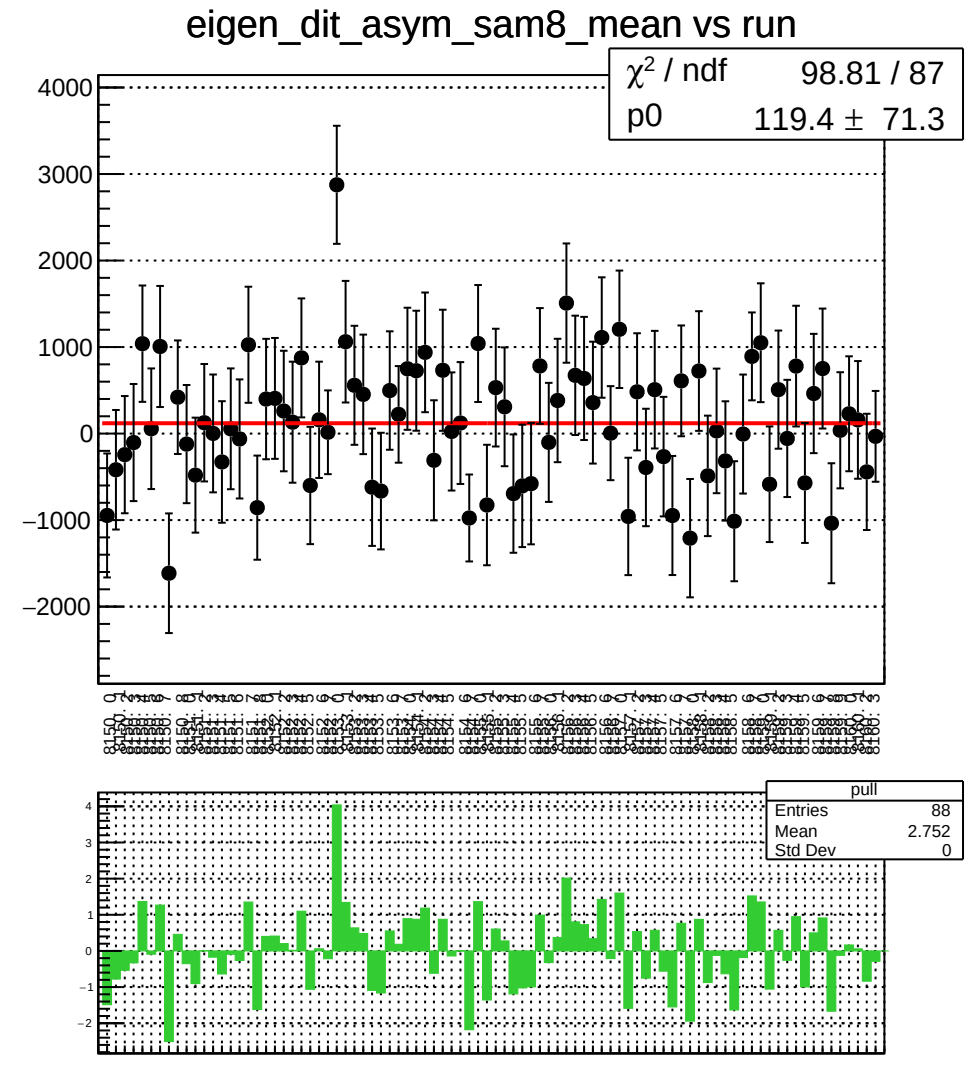

pull1D
Entries 88
Mean 0.006879
Std Dev 1.06

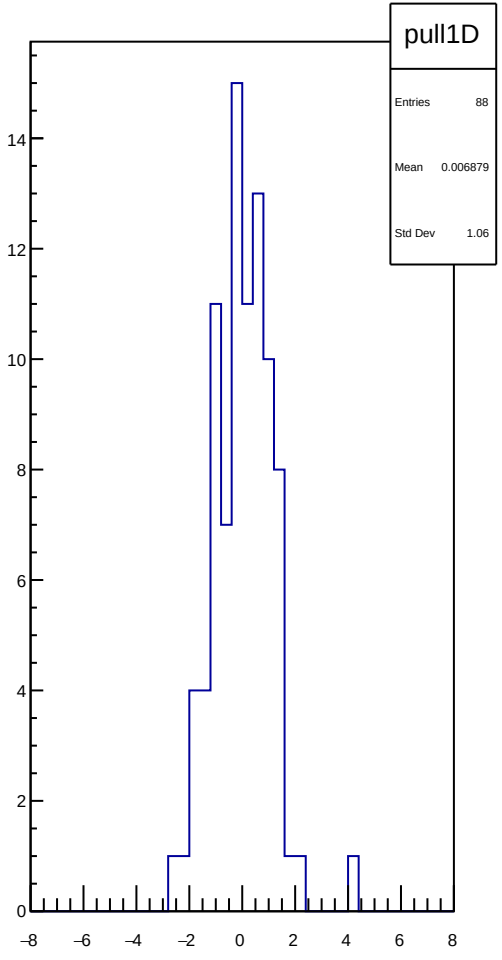

dit_asym_sam8_rms vs run
χ^2 / ndf 470.8 / 87
p0 65.27 ± 0.05042
69
68
67
66
65
64
63
62

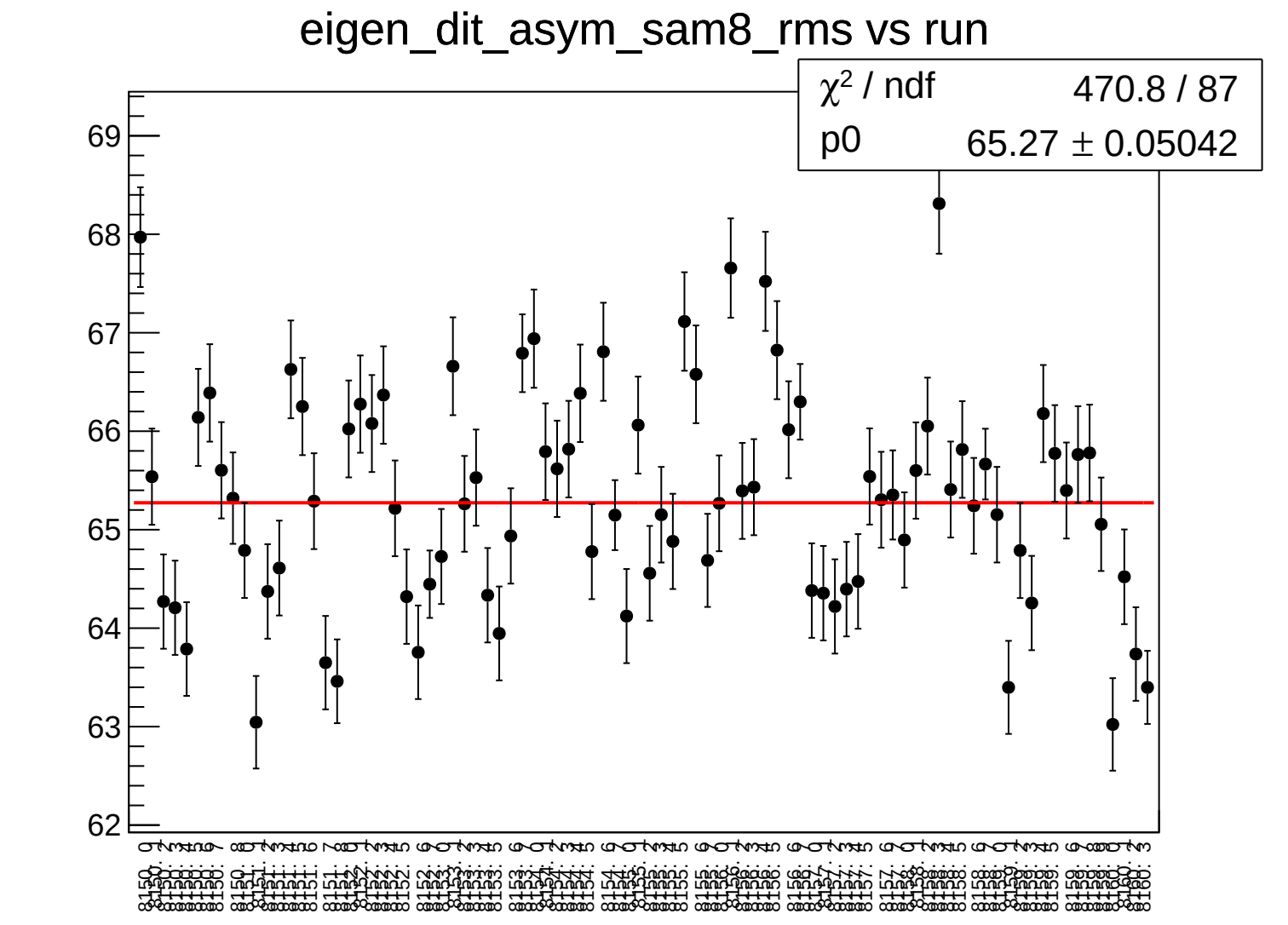

asym_sam8_dit_correction_mean vs run
χ² / ndf 98.65 / 87
p0 −538.6 ± 408.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1914
Std Dev 0
2
1
0
−1
−2

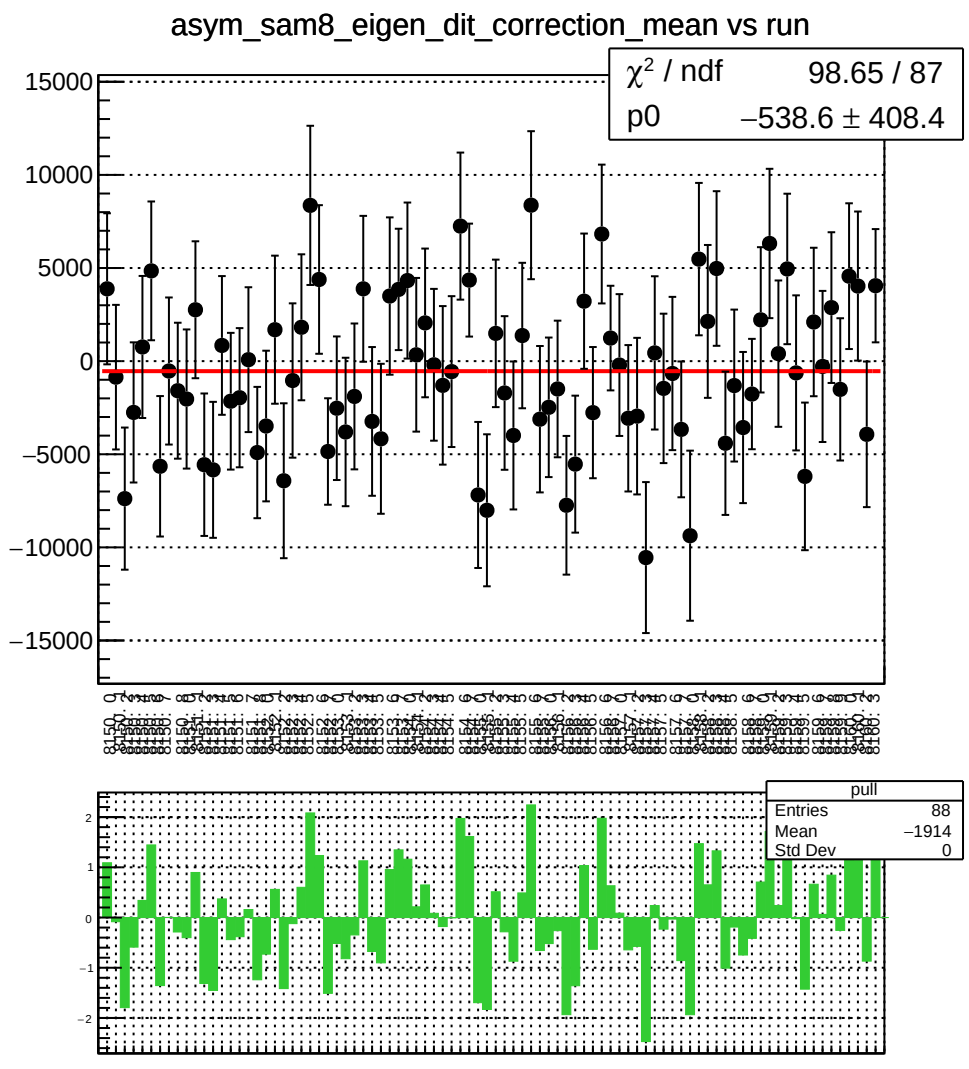

pull1D
Entries 88
Mean −0.001675
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

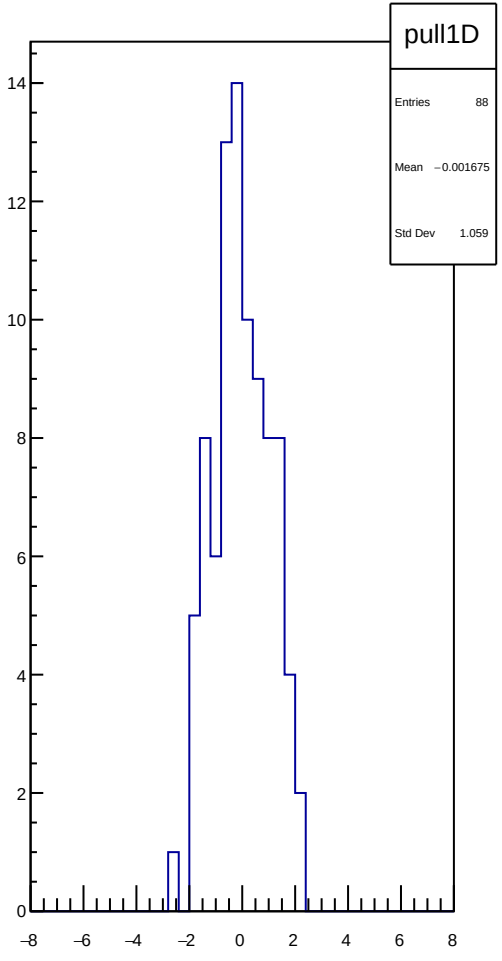

asym_sam8_dit_correction_rms vs run
χ² / ndf 3257 / 87
p0 373.6 ± 0.2888
440
420
400
380
360
340

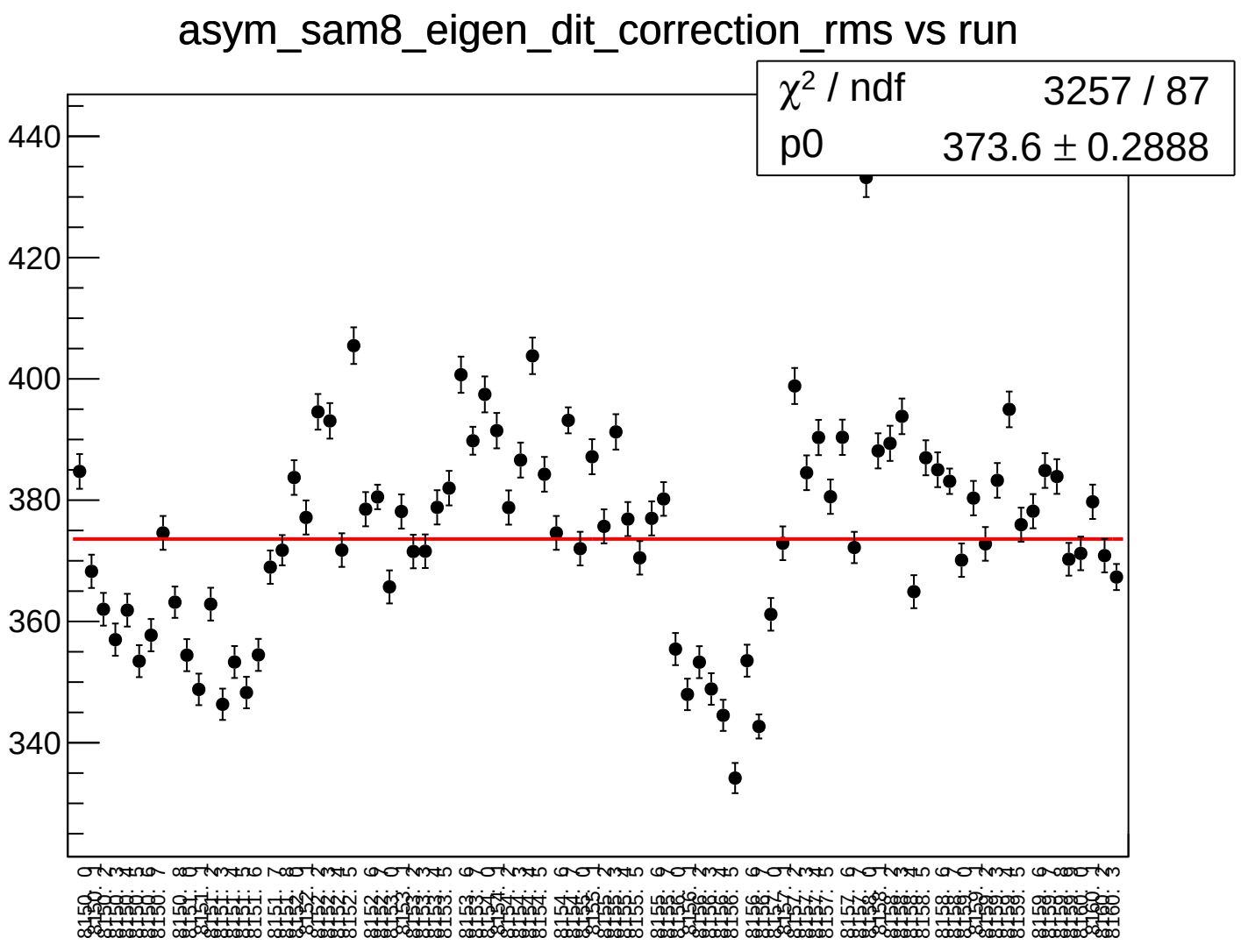

eigen_dit_asym_sam8_mean vs run
χ² / ndf 98.81 / 87
p0 119.4 ± 71.3
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 2.752
Std Dev 0
4
3
2
1
0
−1
−2

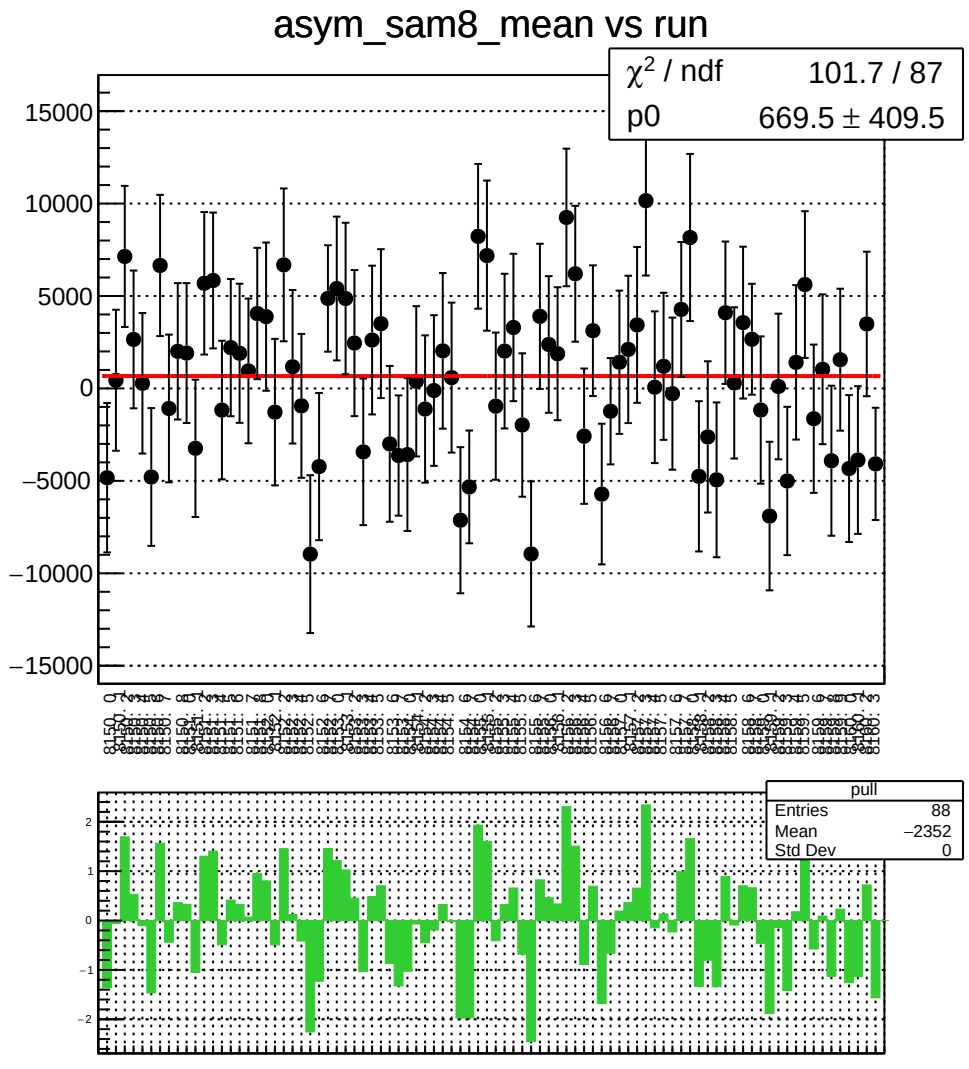

pull1D
Entries 88
Mean 0.006879
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

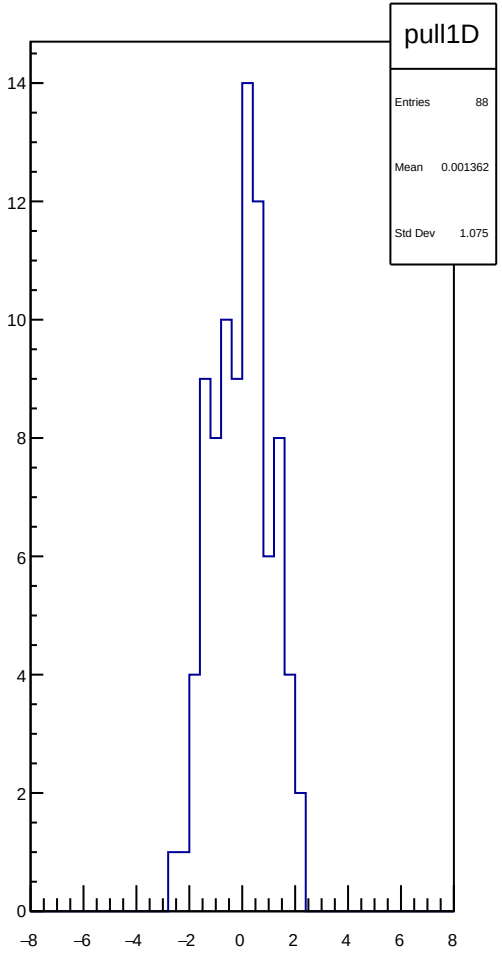

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 470.8 / 87
p0 65.27 ± 0.05042
69
68
67
66
65
64
63
62

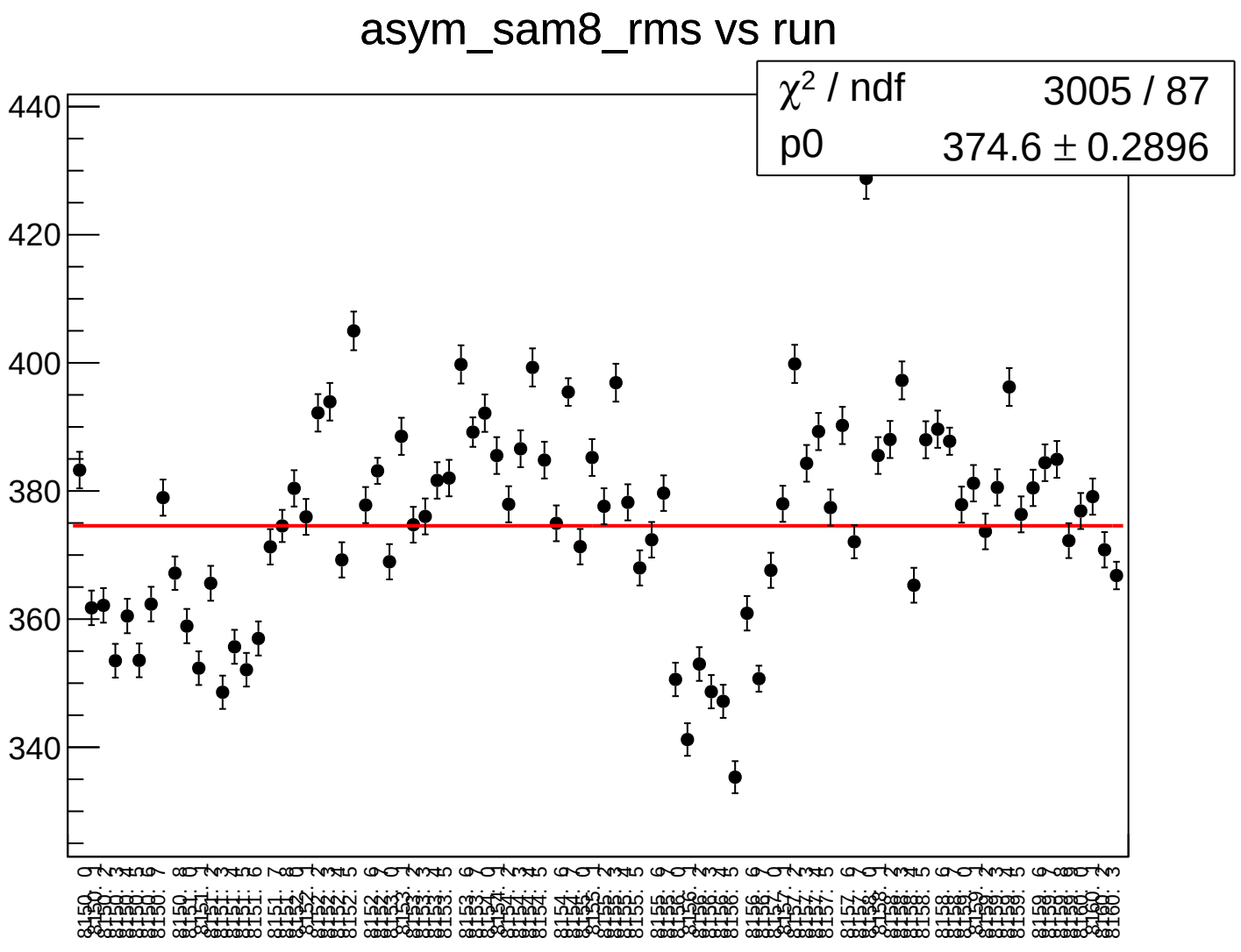

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 98.65 / 87
p0 −538.6 ± 408.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1914
Std Dev 0
2
1
0
−1
−2

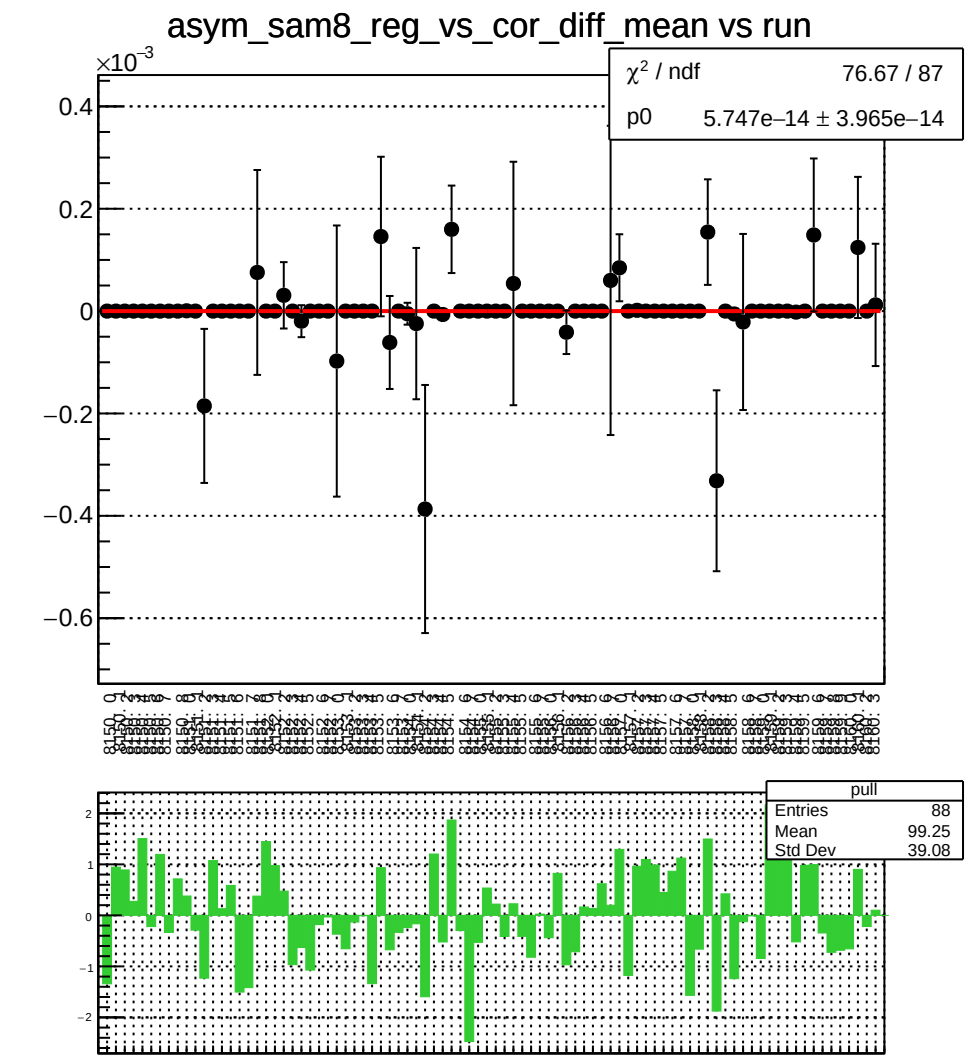

pull1D
Entries 88
Mean −0.001675
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

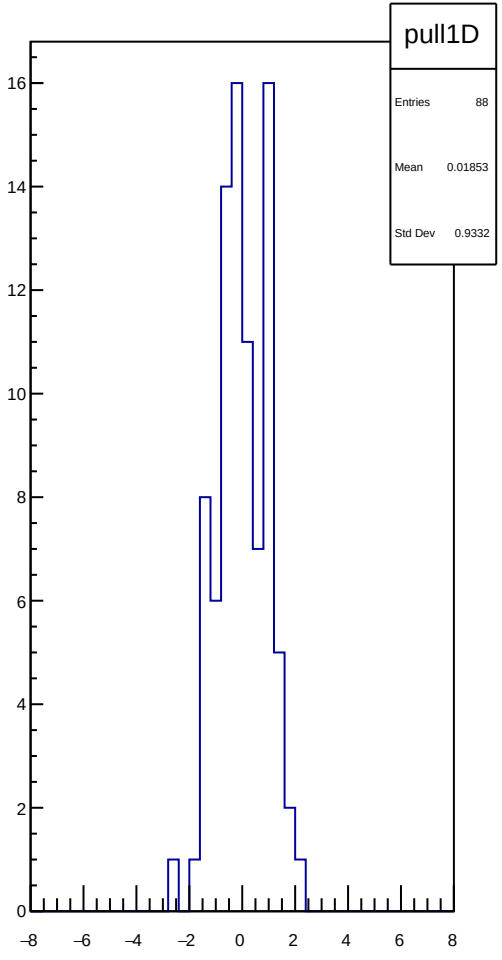

asym_sam8_eigen_dit_correction_rms vs run
χ^2 / ndf 3257 / 87
p0 373.6 ± 0.2888
440
420
400
380
360
340

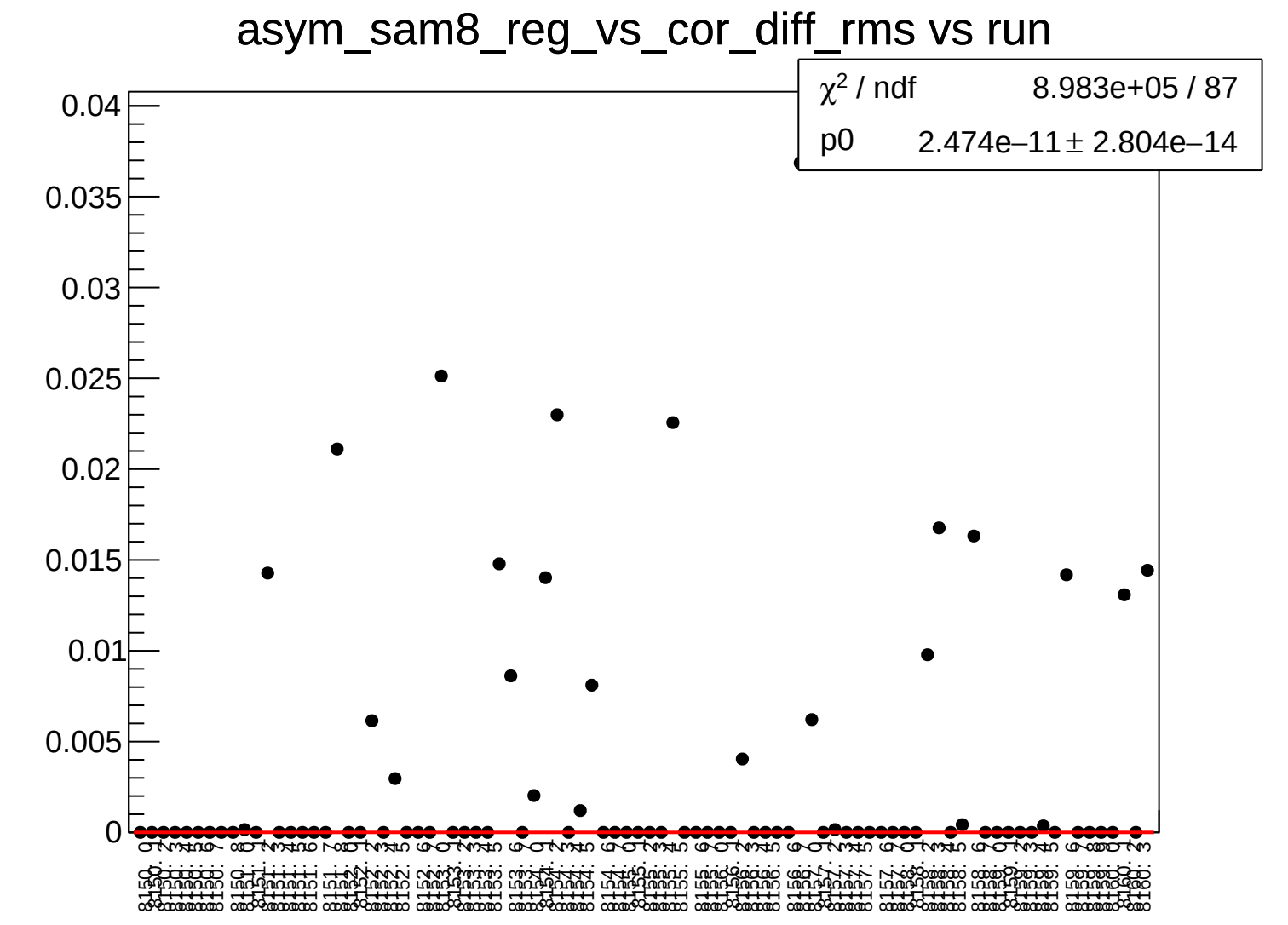

asym_sam8_mean vs run
χ² / ndf 101.7 / 87
p0 669.5 ± 409.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −2352
Std Dev 0
2
1
0
−1
−2

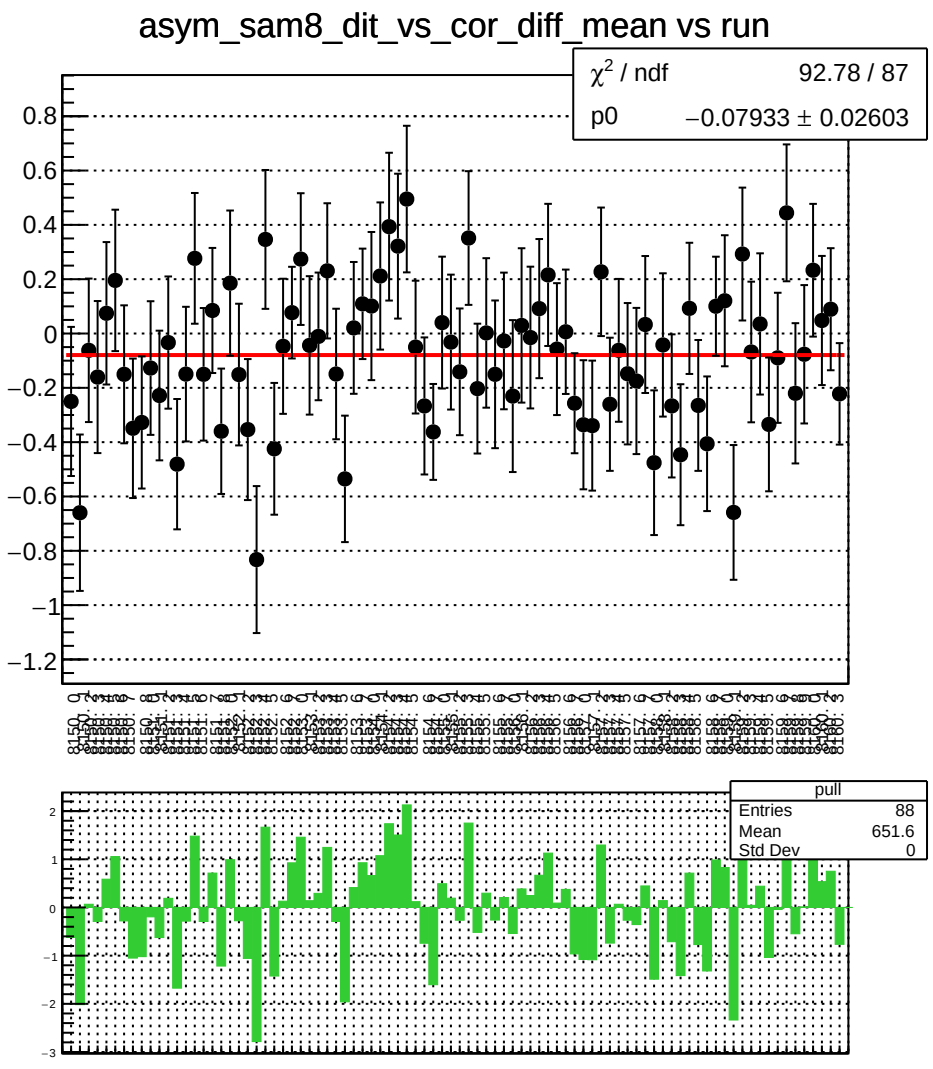

pull1D
Entries 88
Mean 0.001362
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

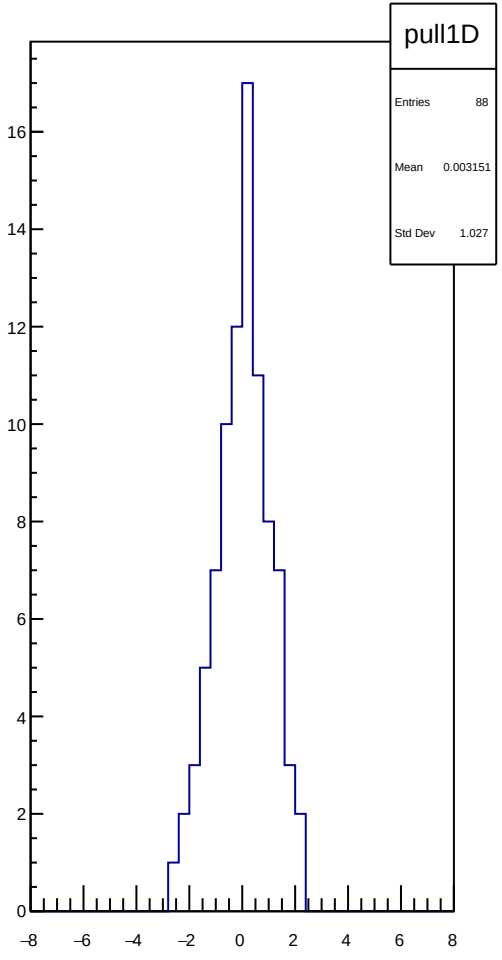

asym_sam8_rms vs run
χ² / ndf 3005 / 87
p0 374.6 ± 0.2896
440
420
400
380
360
340

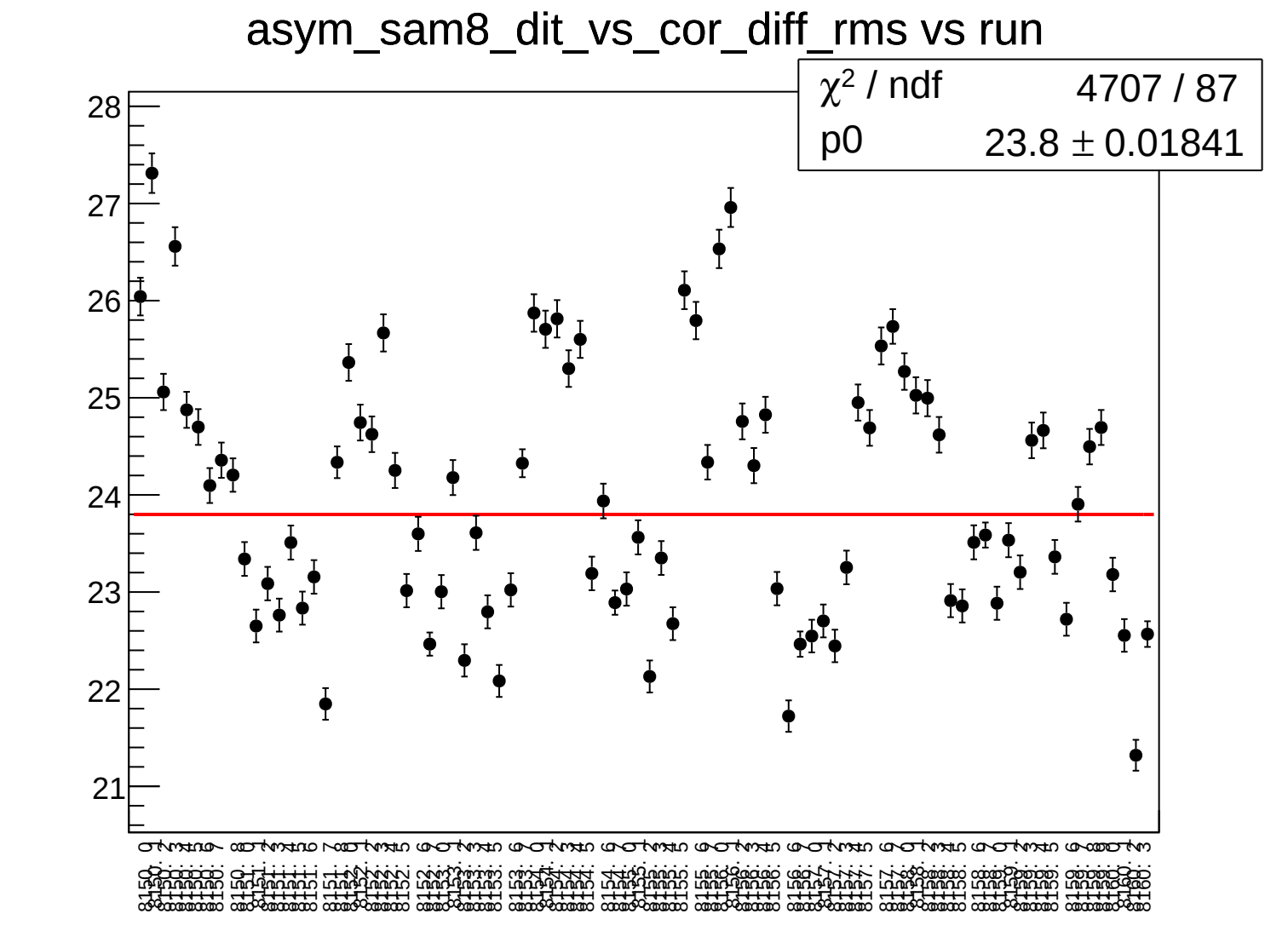

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 76.67 / 87
p0 5.747e−14 ± 3.965e−14
pull
Entries 88
Mean 99.25
Std Dev 39.08

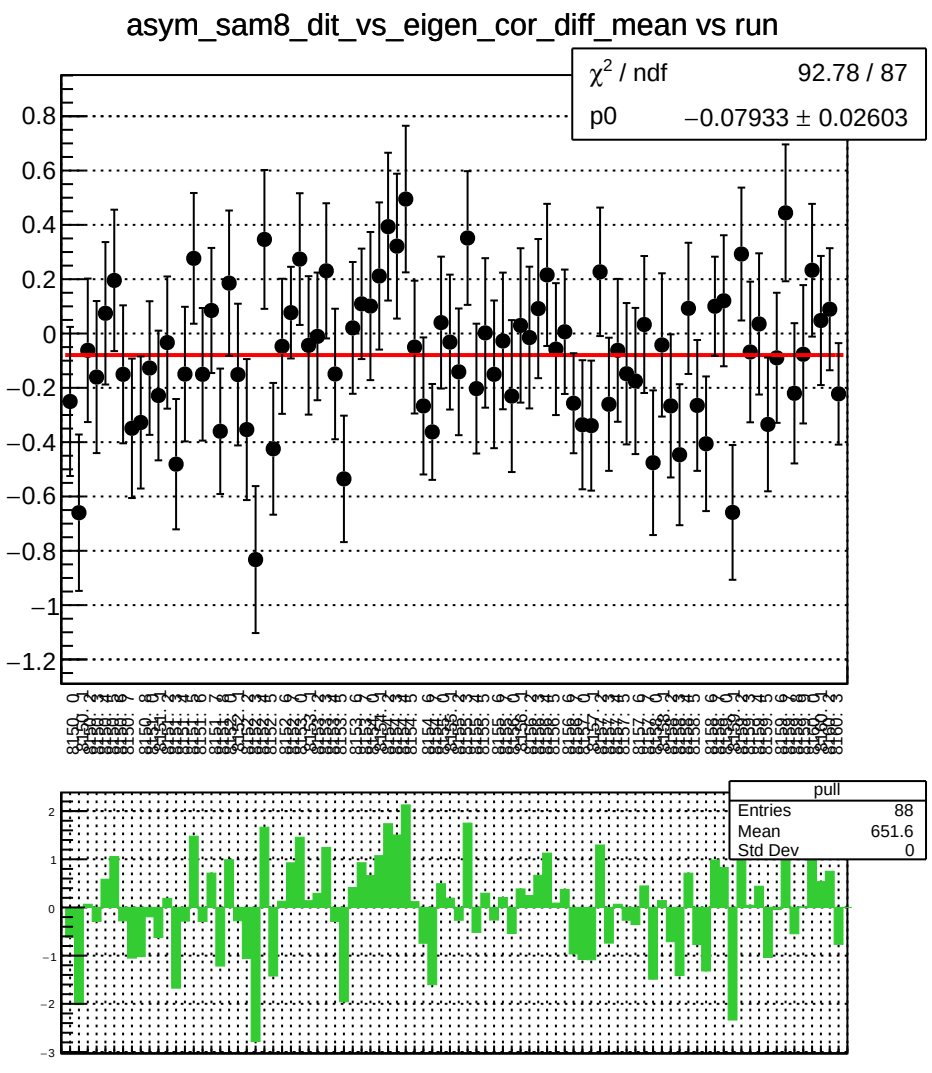

pull1D
Entries 88
Mean 0.01853
Std Dev 0.9332

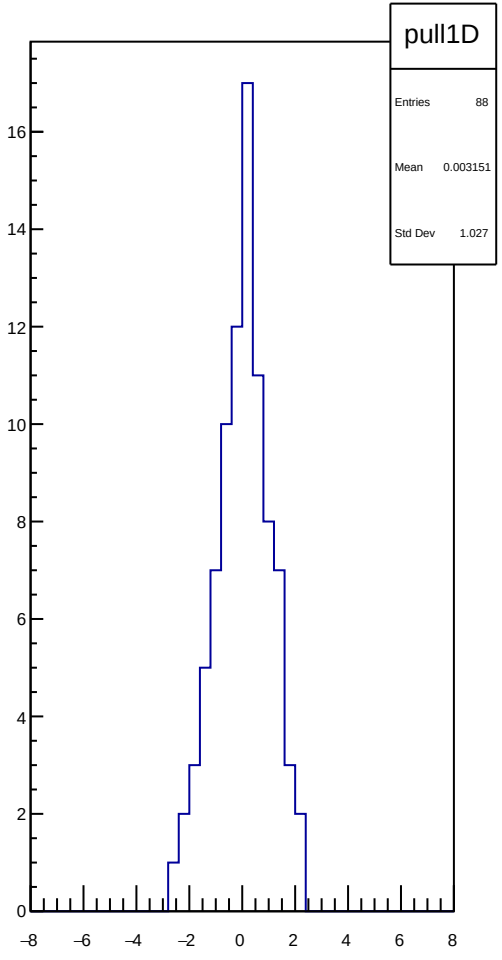

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 8.983e+05 / 87
p0 2.474e−11 ± 2.804e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

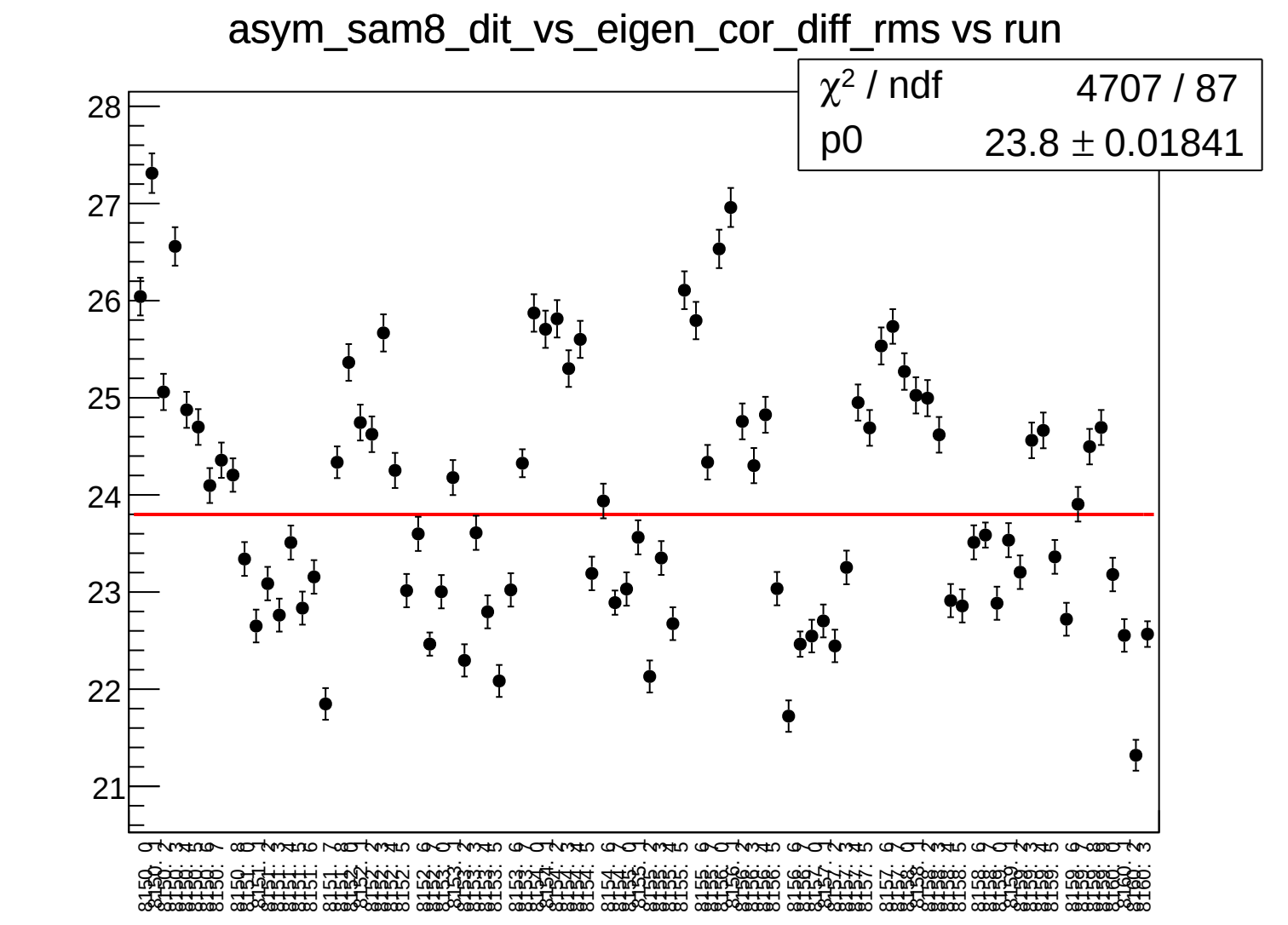

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 92.78 / 87
p0 −0.07933 ± 0.02603
pull
Entries 88
Mean 651.6
Std Dev 0

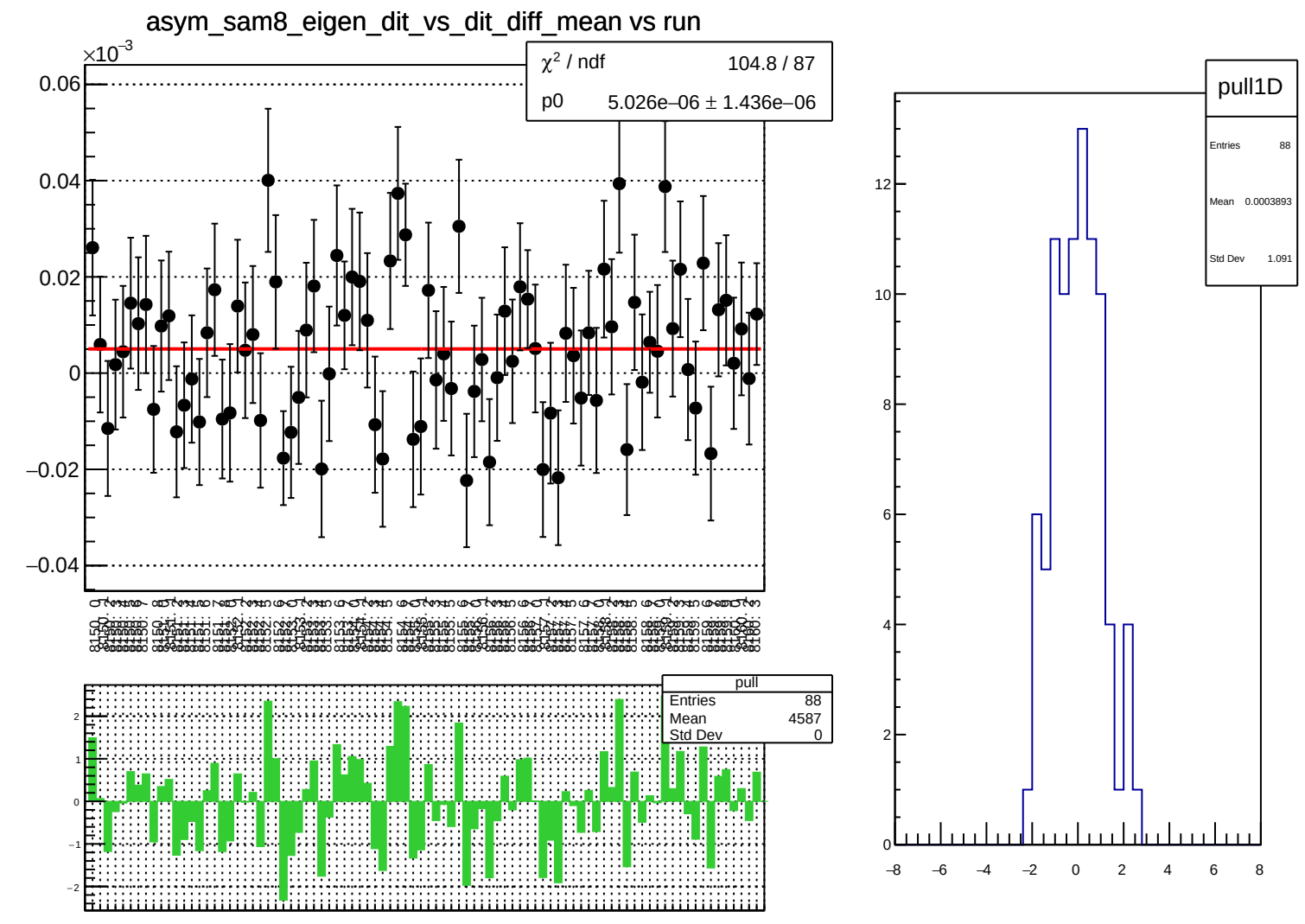

pull1D
Entries 88
Mean 0.003151
Std Dev 1.027

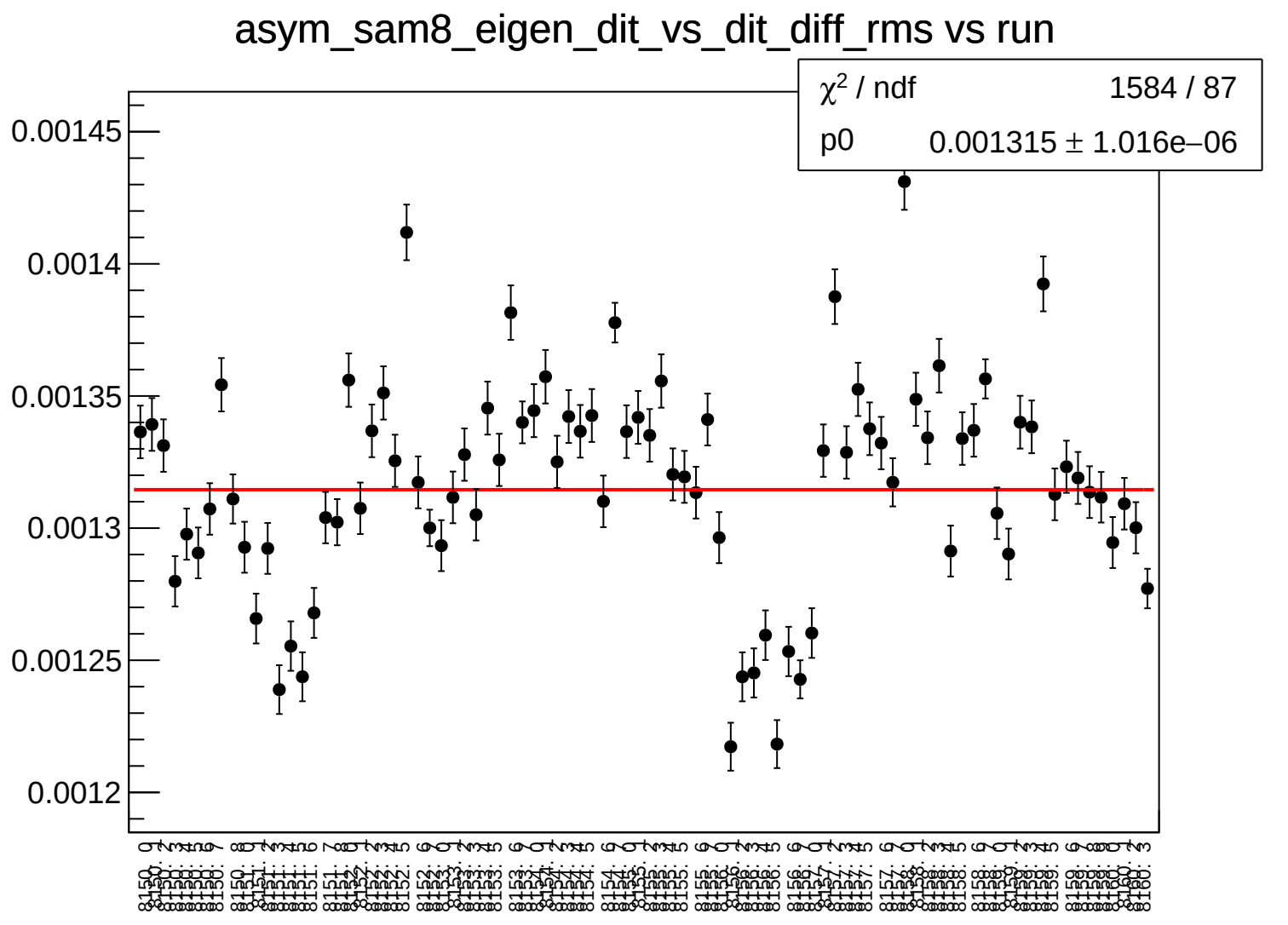

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 4707 / 87
p0 23.8 ± 0.01841
28
27
26
25
24
23
22
21

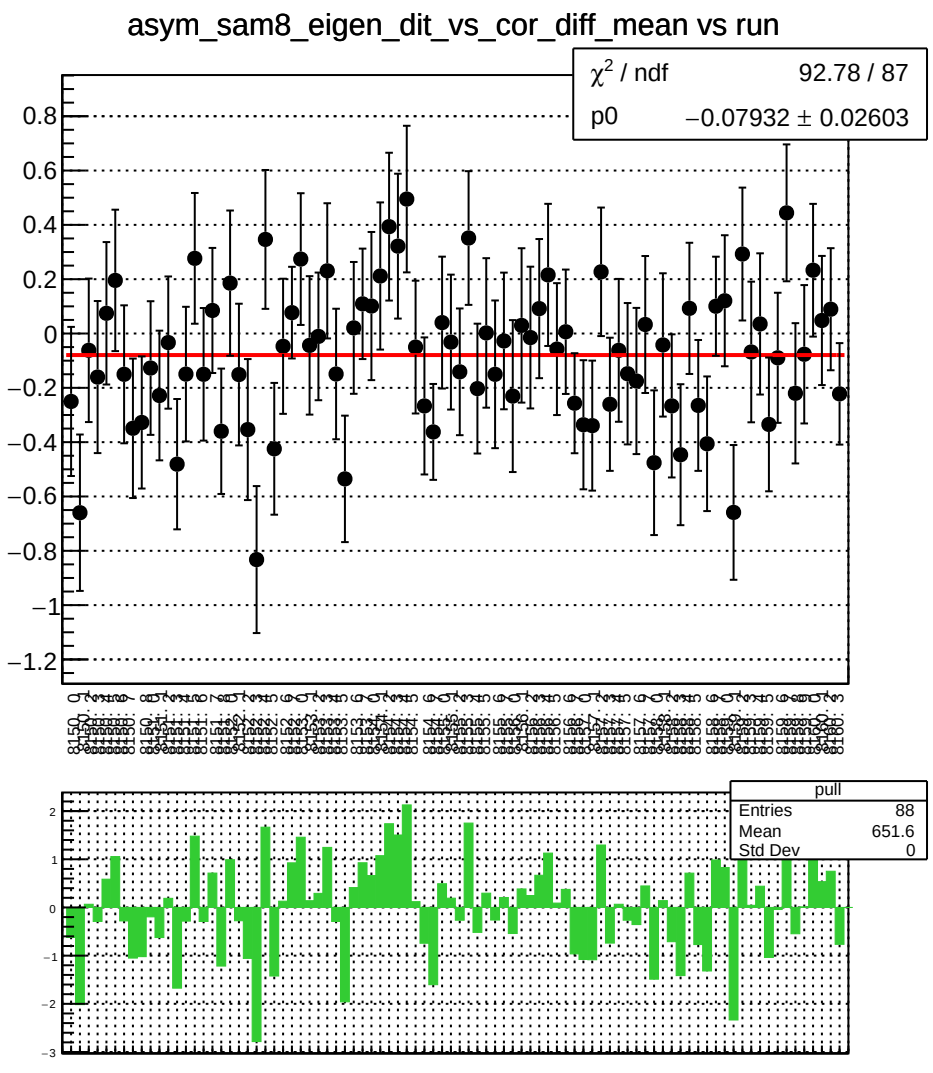

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.78 / 87
p0 −0.07933 ± 0.02603
pull
Entries 88
Mean 651.6
Std Dev 0

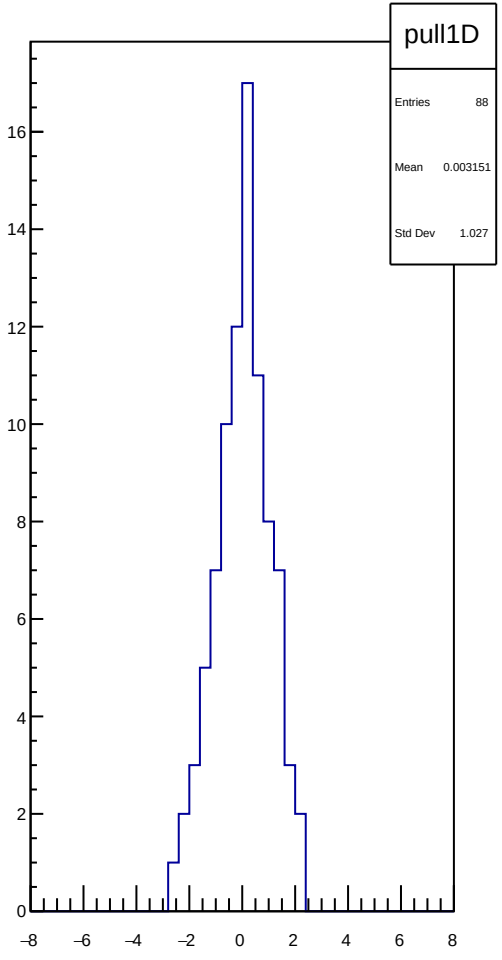

pull1D
Entries 88
Mean 0.003151
Std Dev 1.027

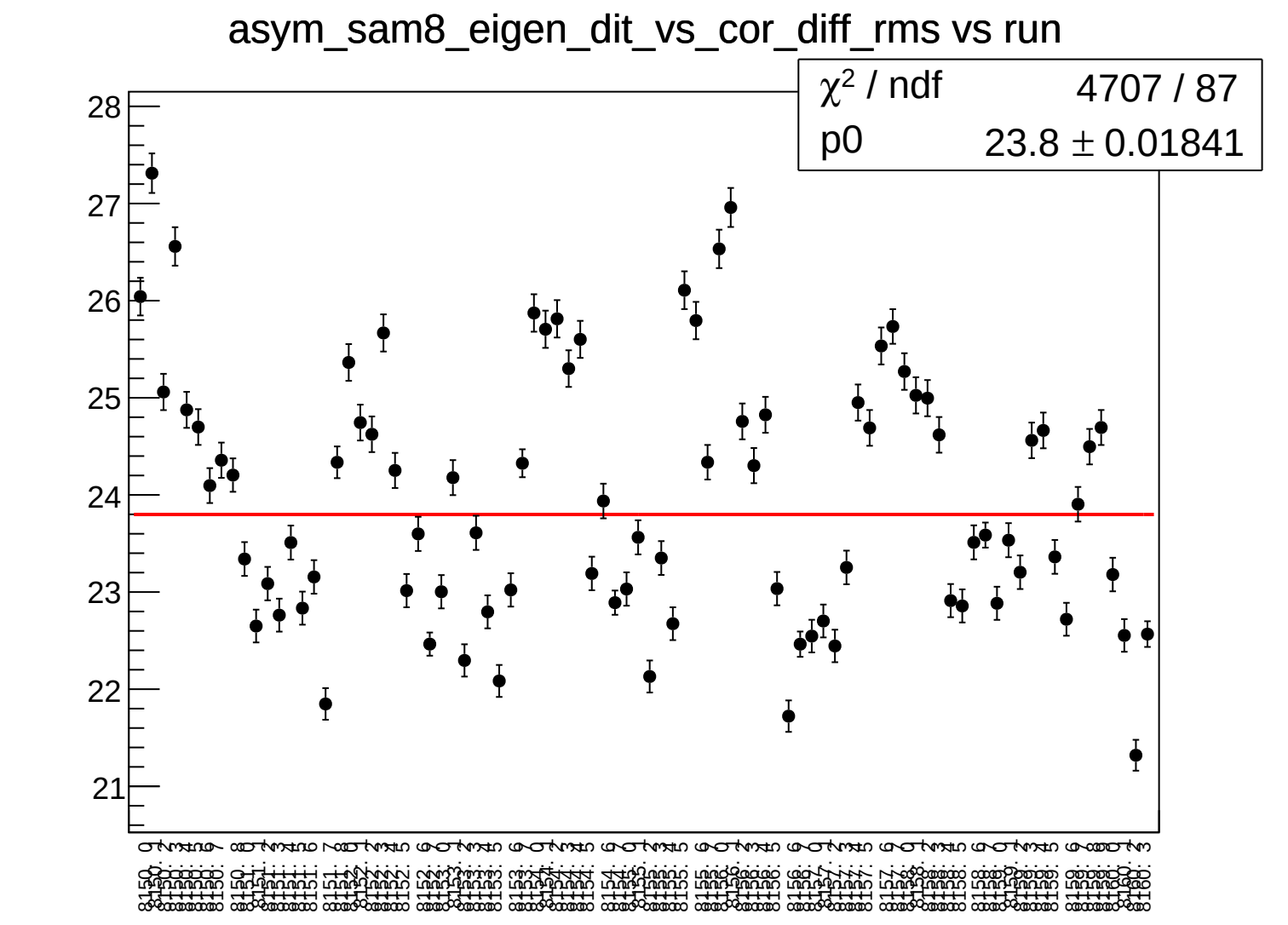

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4707 / 87
p0 23.8 ± 0.01841
28
27
26
25
24
23
22
21

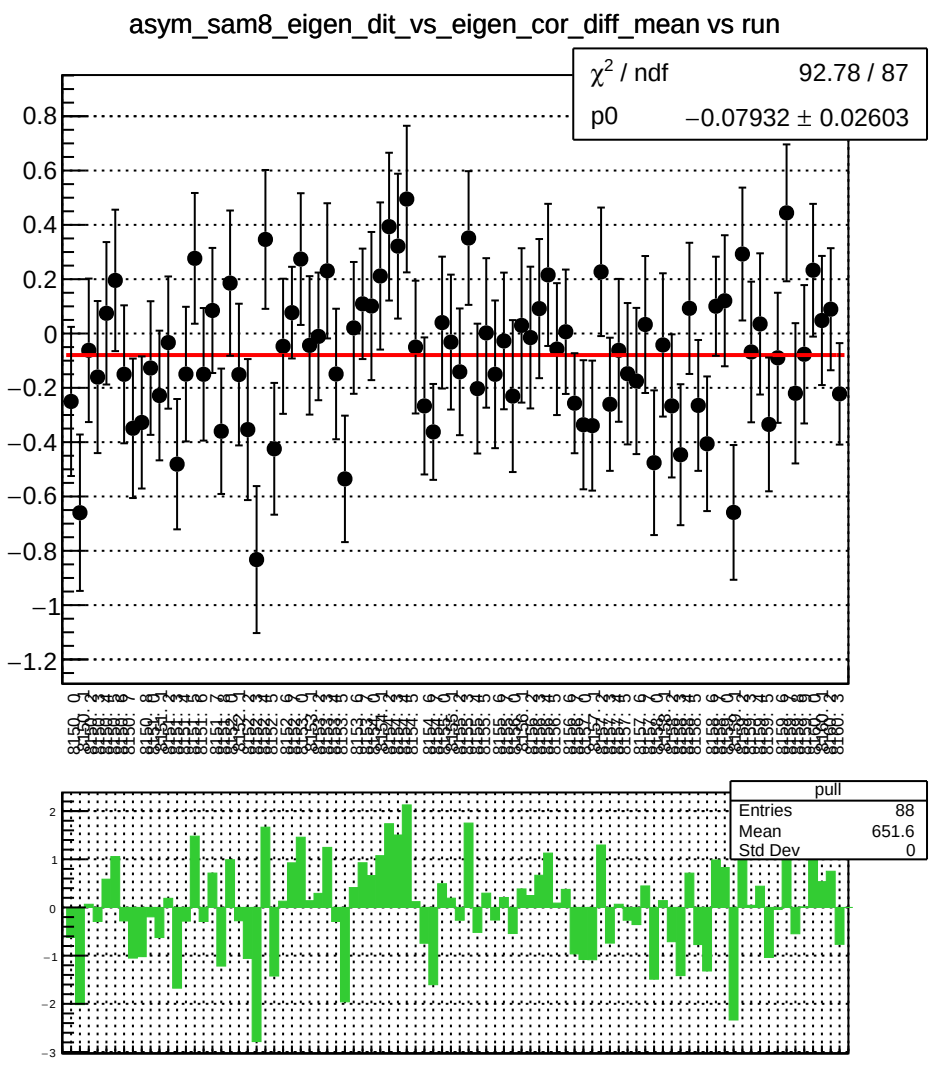

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.8 / 87
p0 5.026e−06 ± 1.436e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean 4587
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0003893
Std Dev 1.091
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

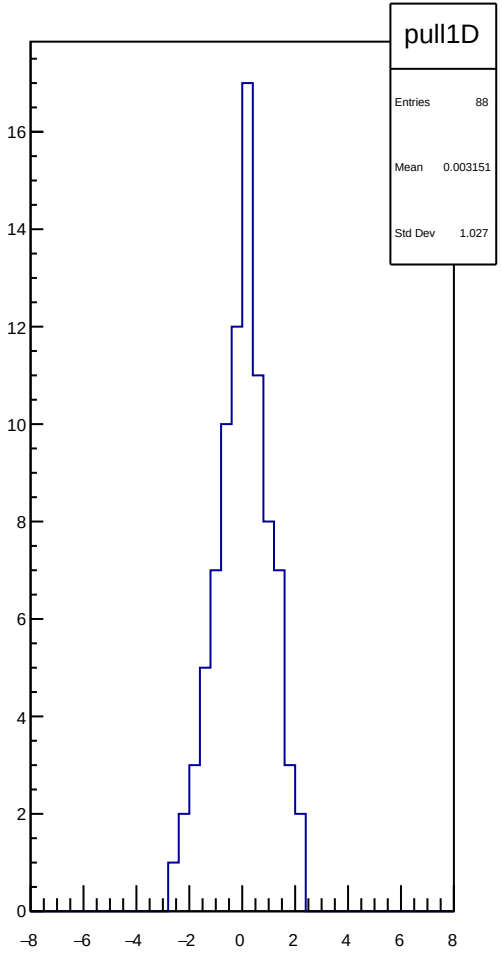

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1584 / 87
p0 0.001315 ± 1.016e−06
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012

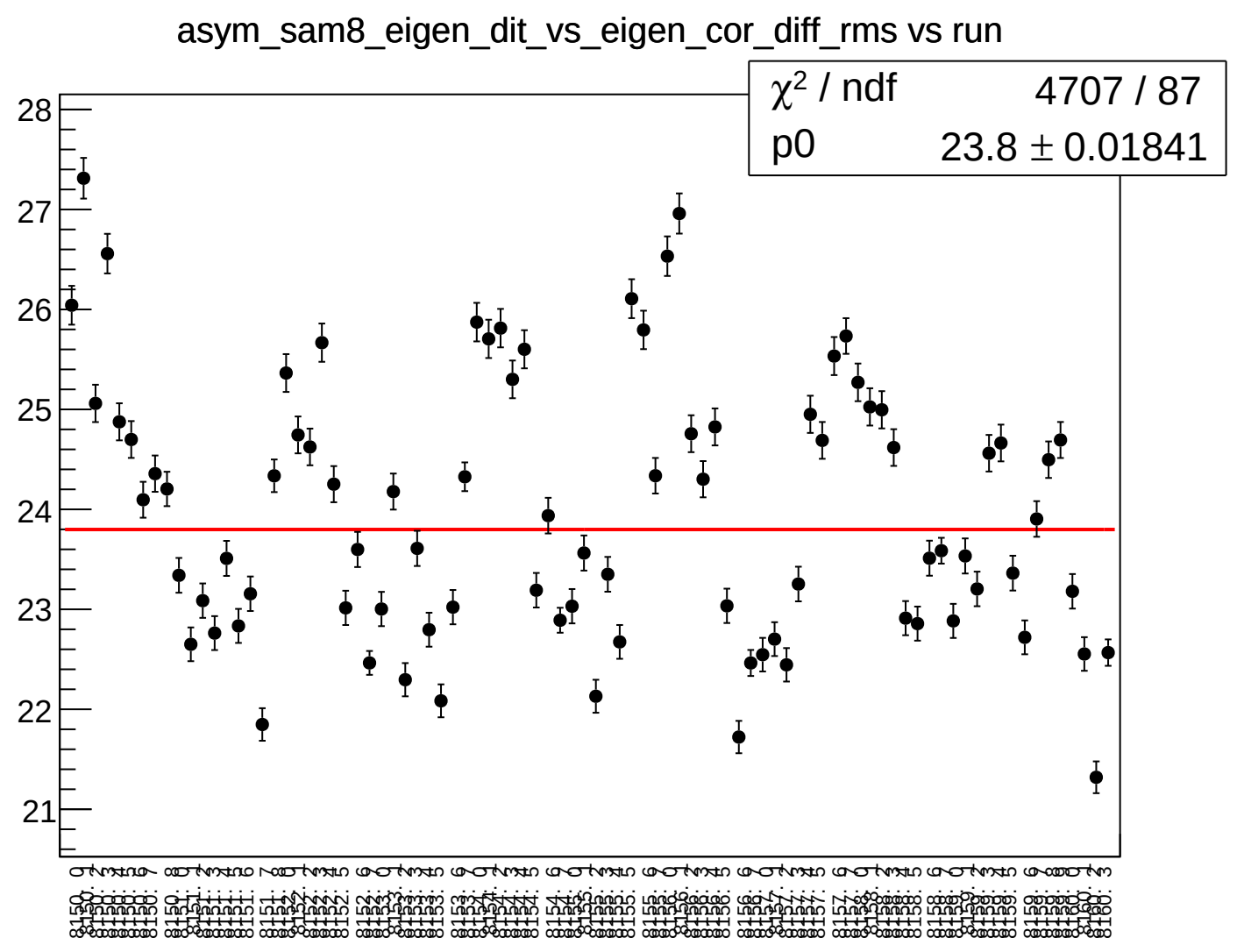

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.78 / 87
p0 −0.07932 ± 0.02603
pull
Entries 88
Mean 651.6
Std Dev 0

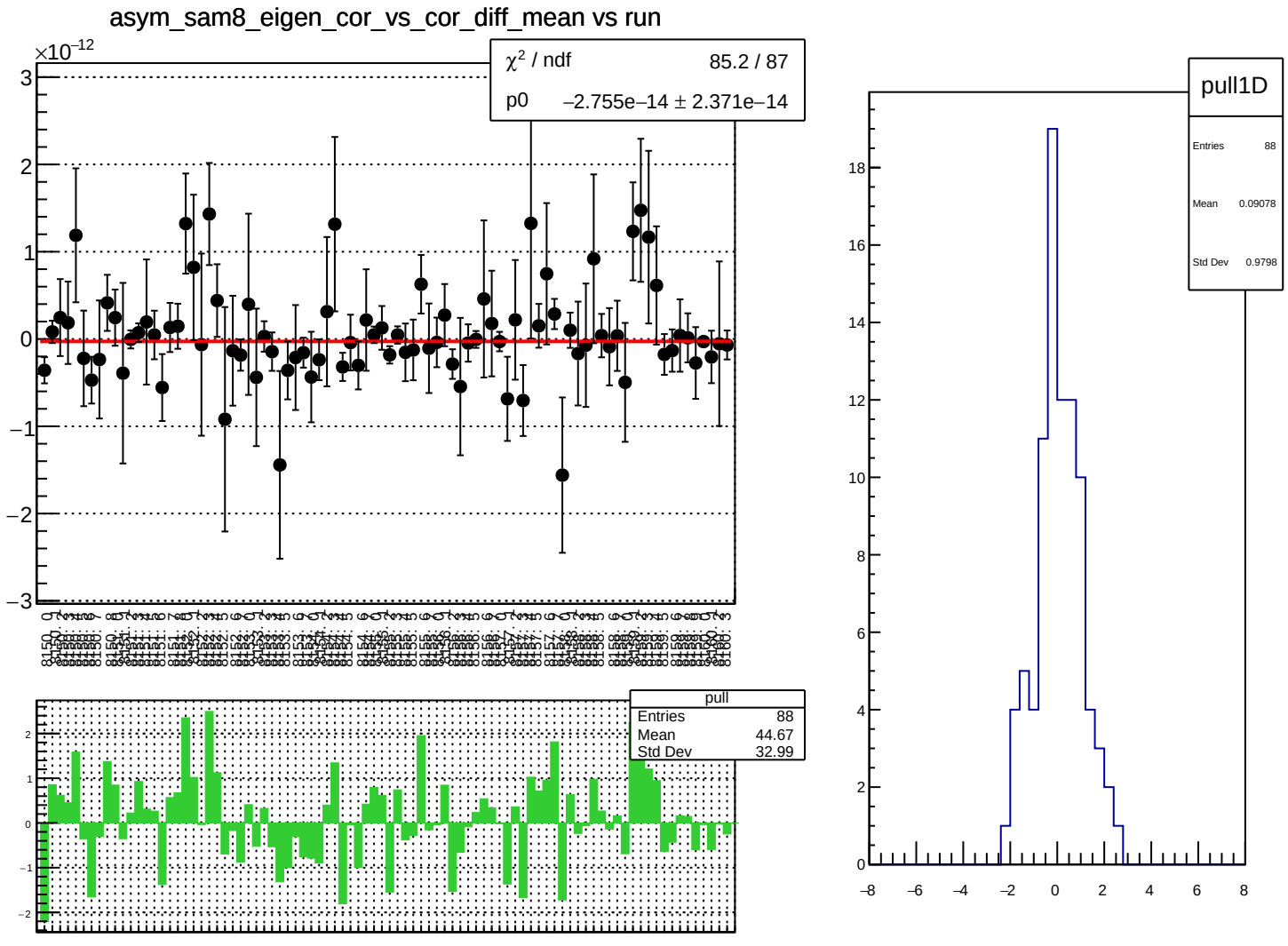

pull1D
Entries 88
Mean 0.003151
Std Dev 1.027

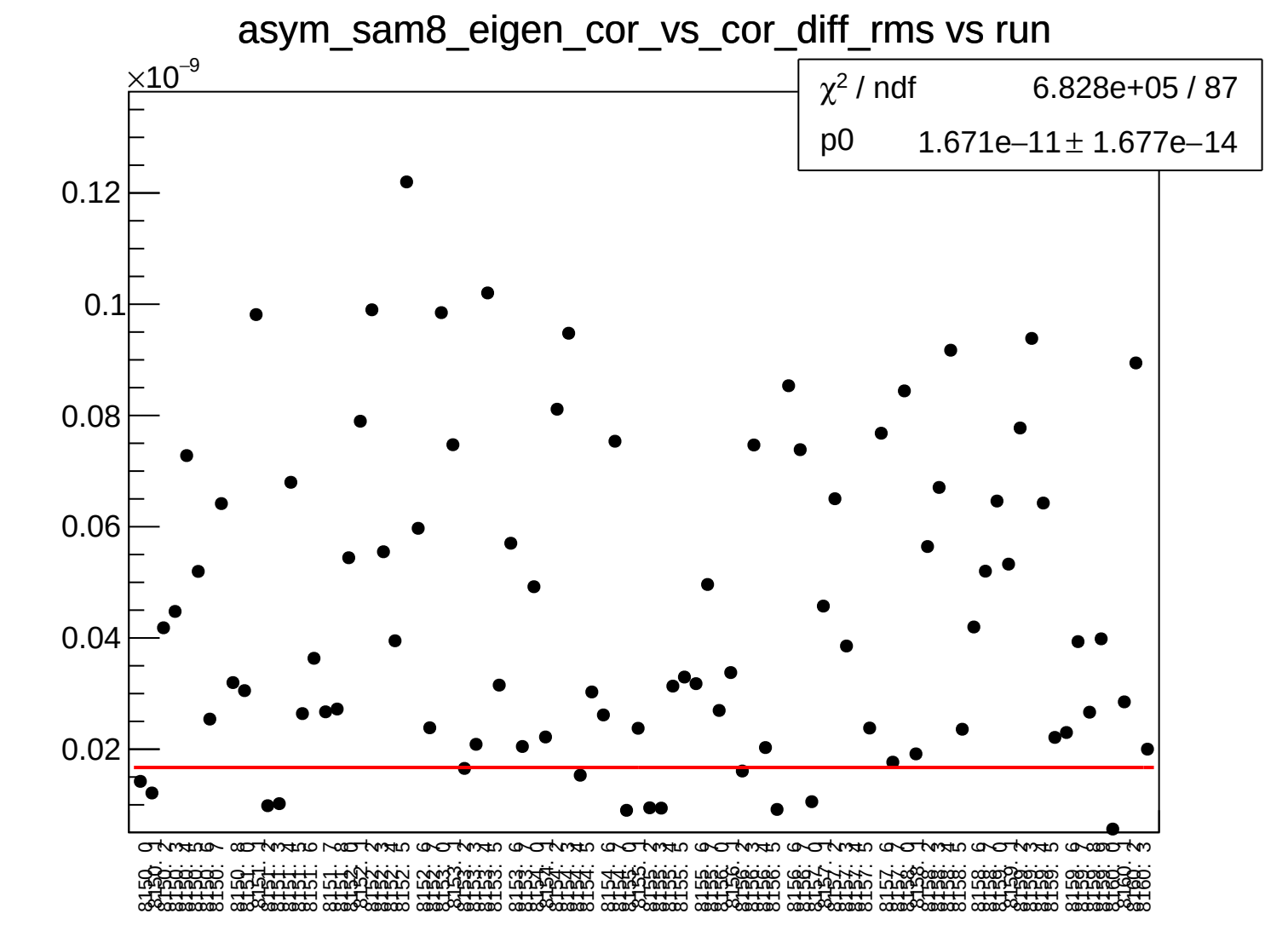

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4707 / 87
p0 23.8 ± 0.01841
28
27
26
25
24
23
22
21

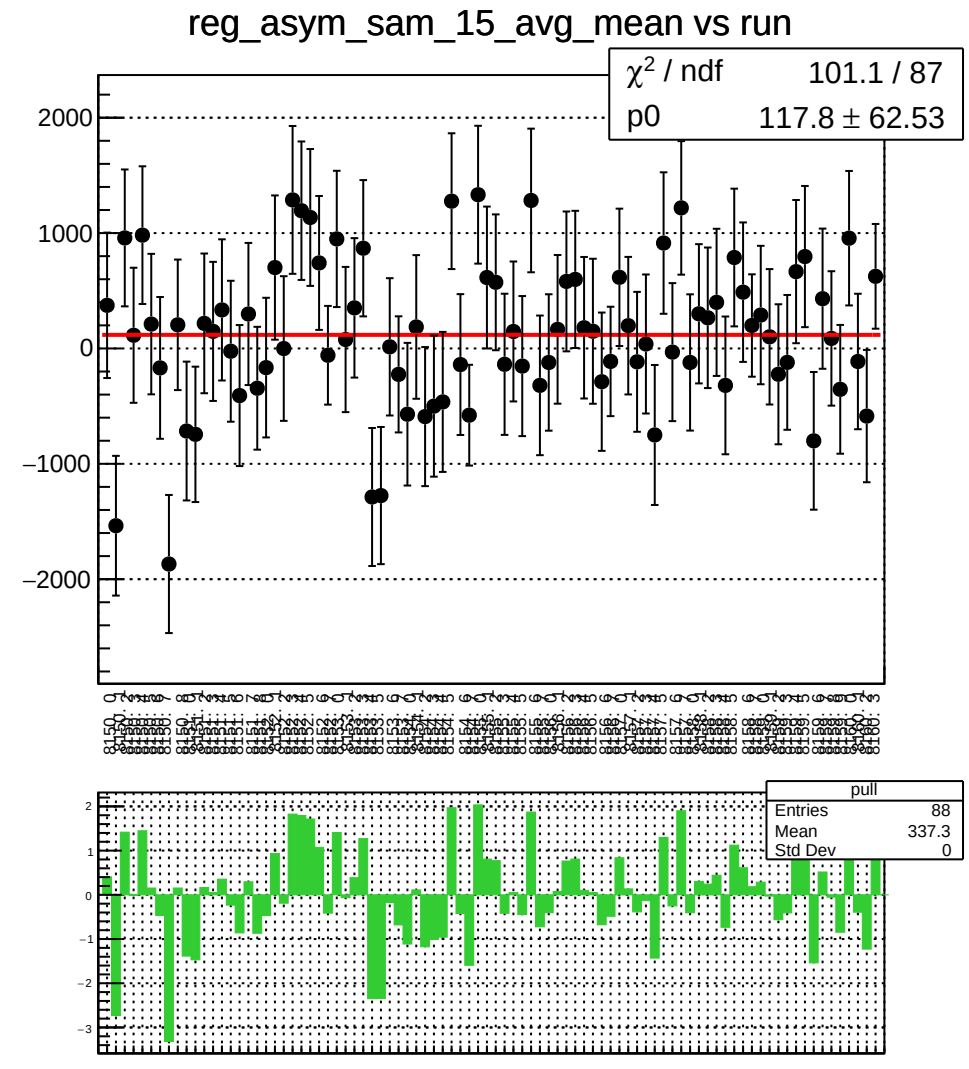

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.78 / 87
p0 −0.07932 ± 0.02603
pull
Entries 88
Mean 651.6
Std Dev 0

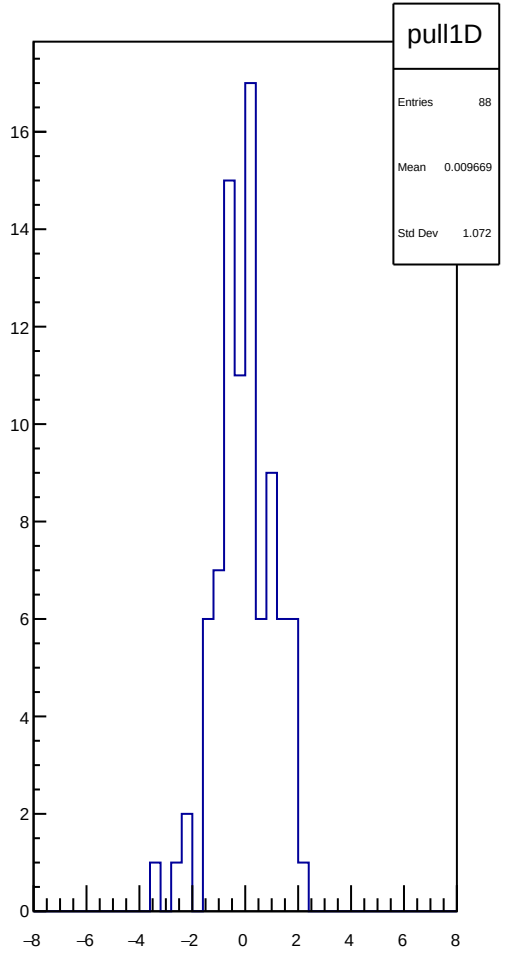

pull1D
Entries 88
Mean 0.003151
Std Dev 1.027


asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4707 / 87
p0 23.8 ± 0.01841
28
27
26
25
24
23
22
21


asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.2 / 87
p0 −2.755e−14 ± 2.371e−14
pull
Entries 88
Mean 44.67
Std Dev 32.99
pull1D
Entries 88
Mean 0.09078
Std Dev 0.9798


asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.828e+05 / 87
p0 1.671e−11 ± 1.677e−14
0.12
0.1
0.08
0.06
0.04
0.02


reg_asym_sam_15_avg_mean vs run
χ² / ndf 101.1 / 87
p0 117.8 ± 62.53
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 337.3
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean 0.009669
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
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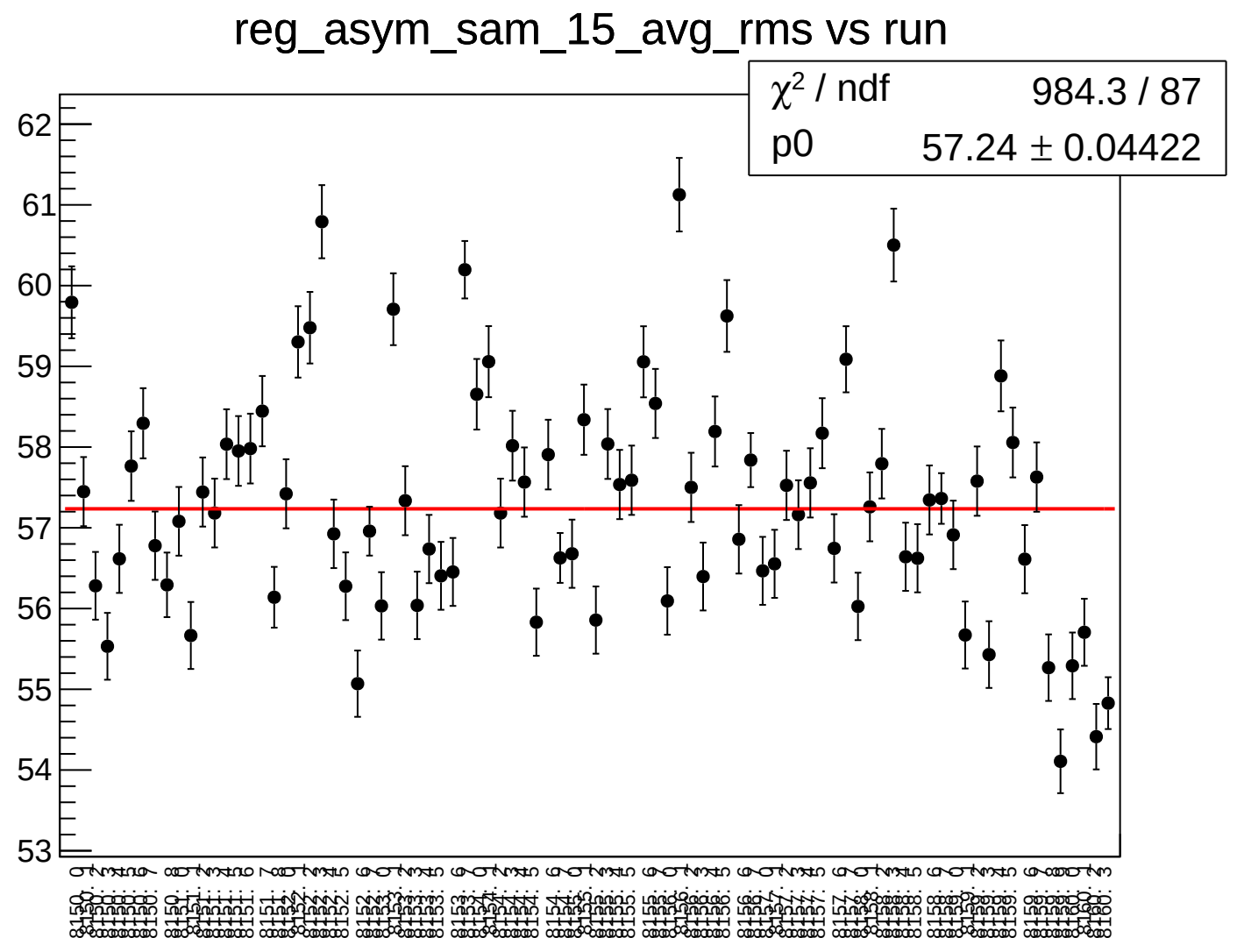
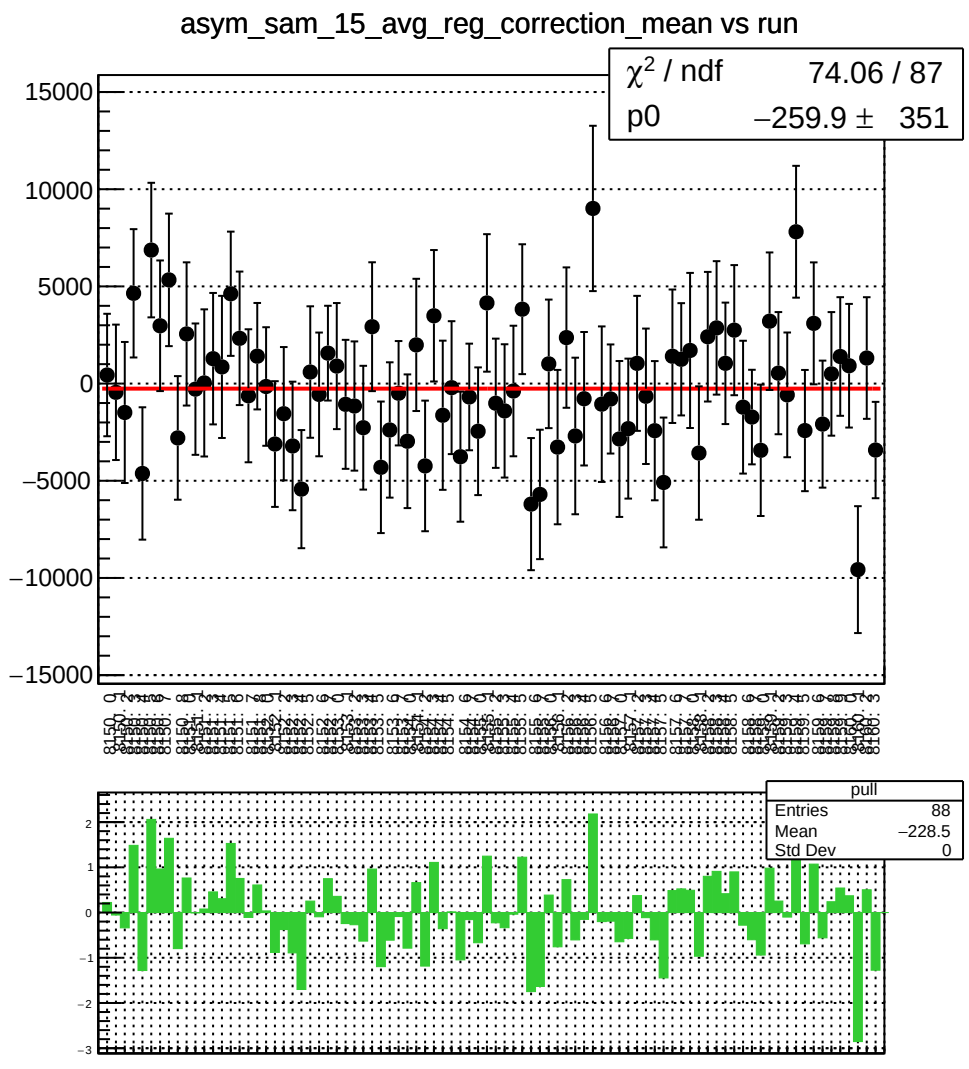
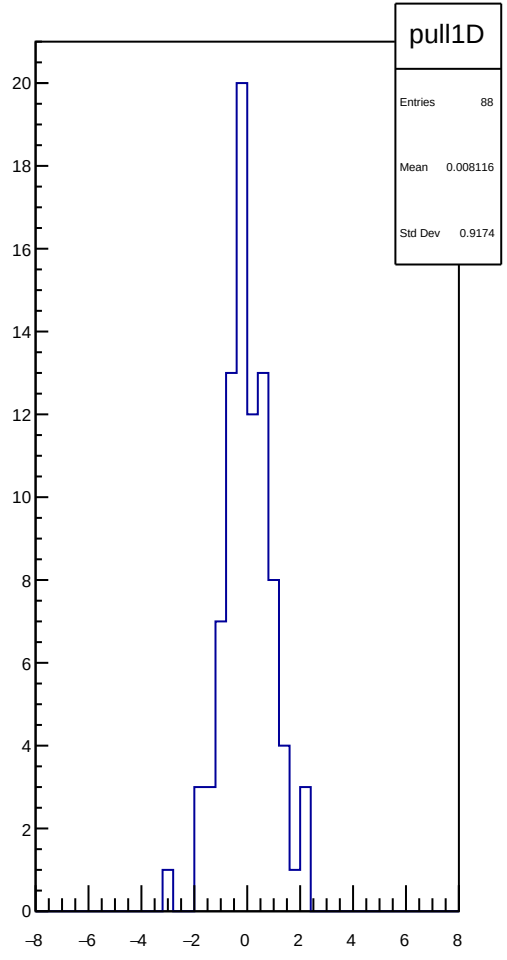
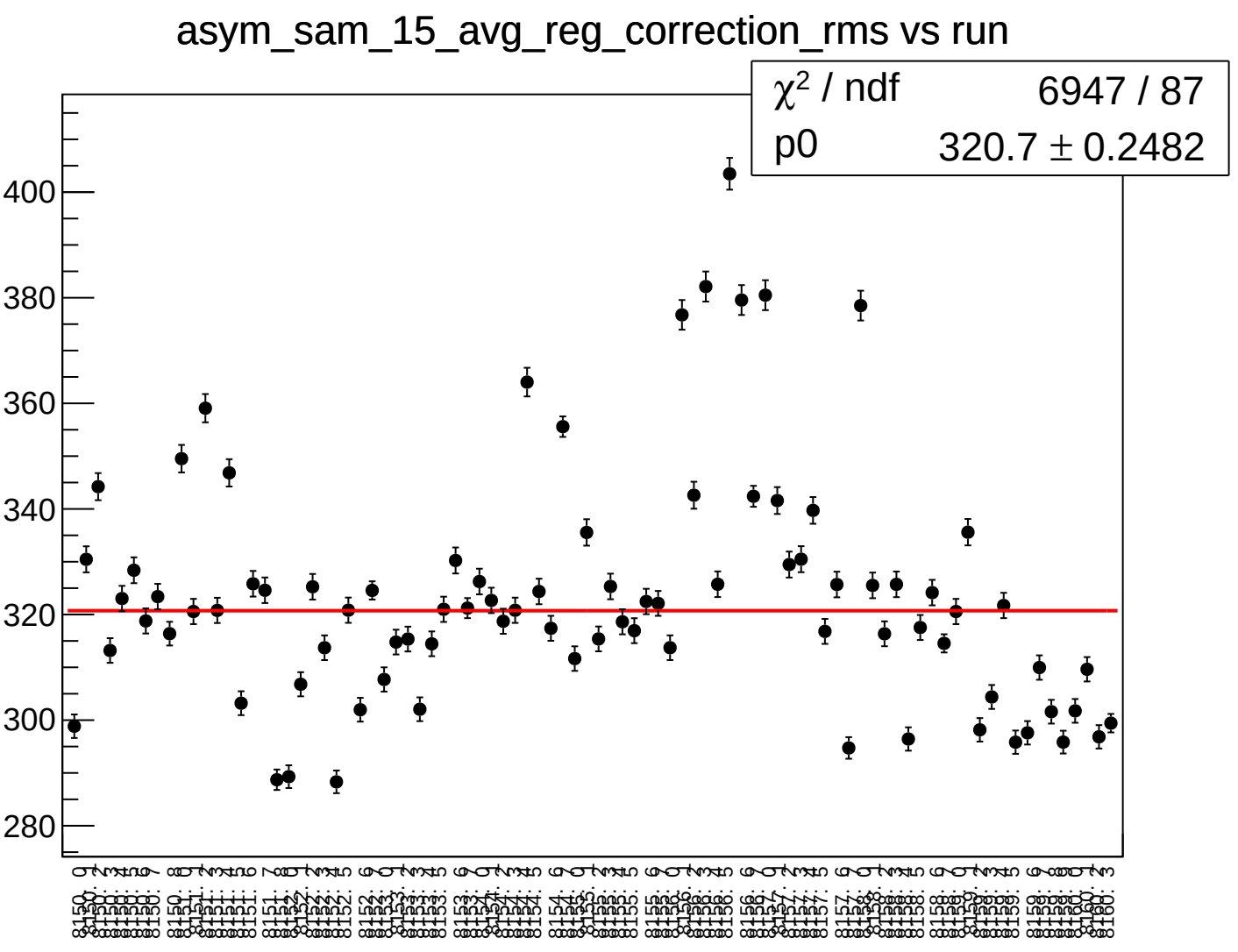
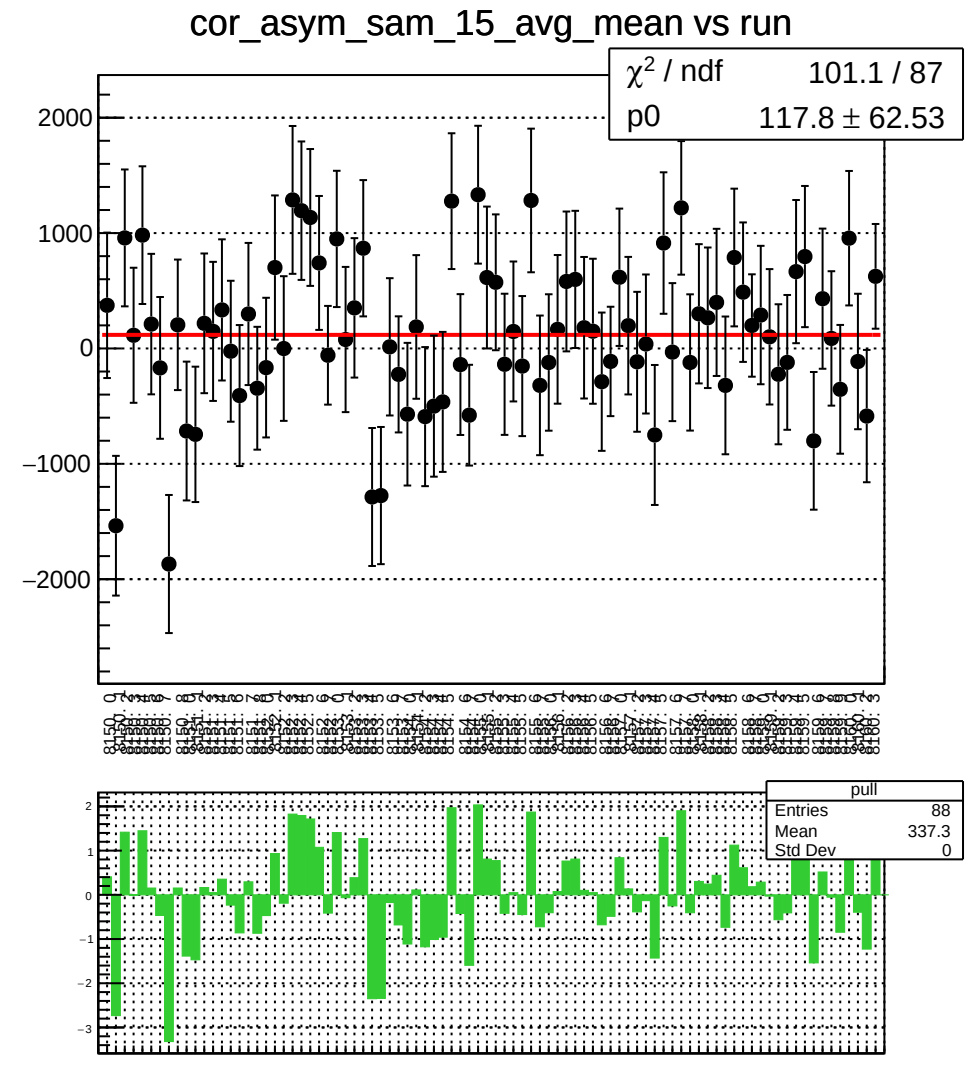
0
2
4
6
8

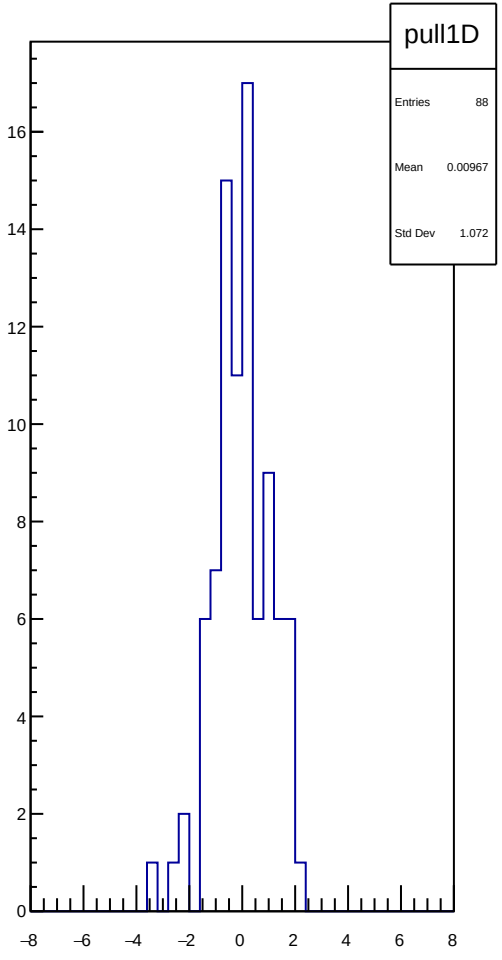

reg_asym_sam_15_avg_rms vs run
χ² / ndf 984.3 / 87
p0 57.24 ± 0.04422
62
61
60
59
58
57
56
55
54
53

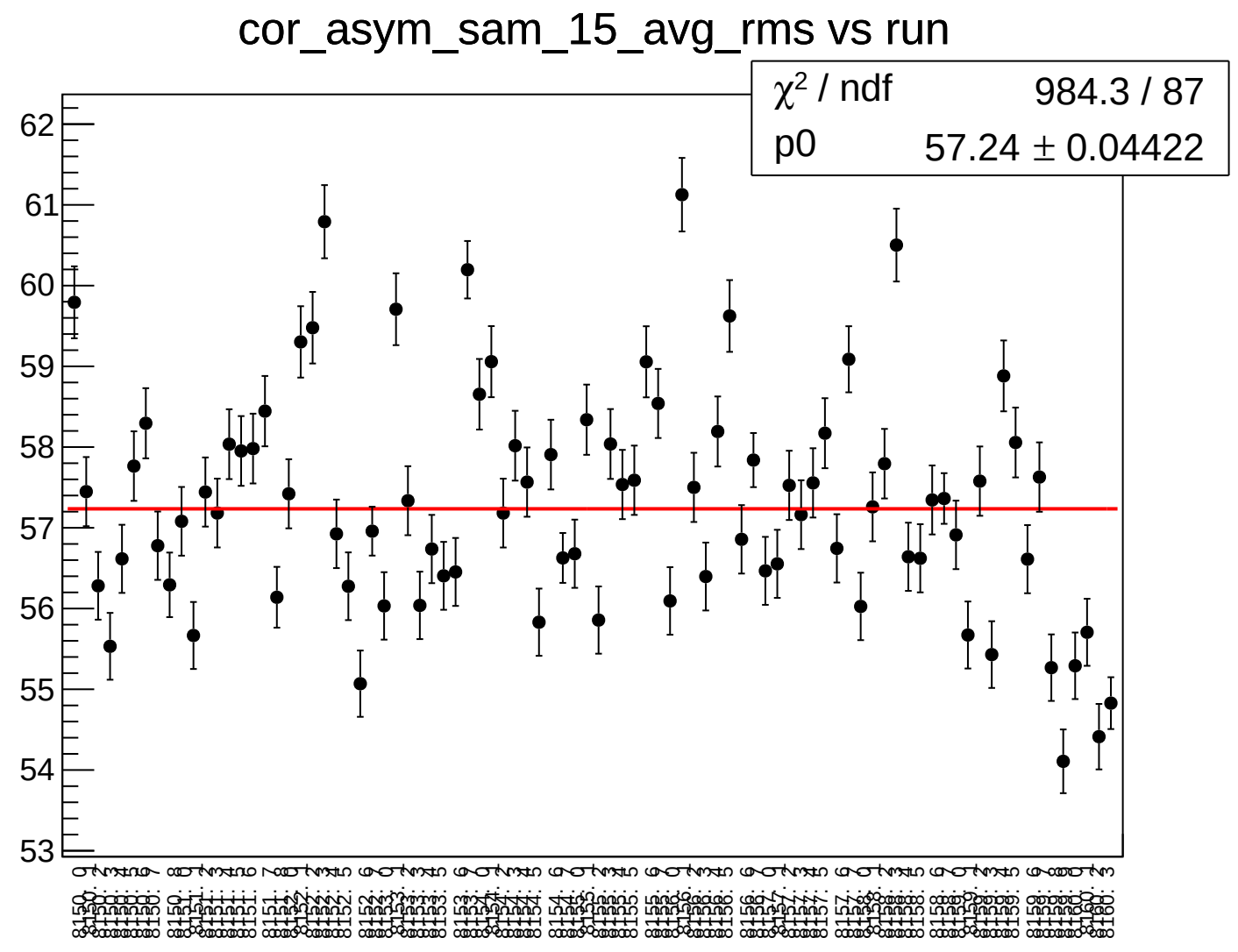

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 74.06 / 87
p0 −259.9 ± 351
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −228.5
Std Dev 0
2
1
0
−1
−2
−3

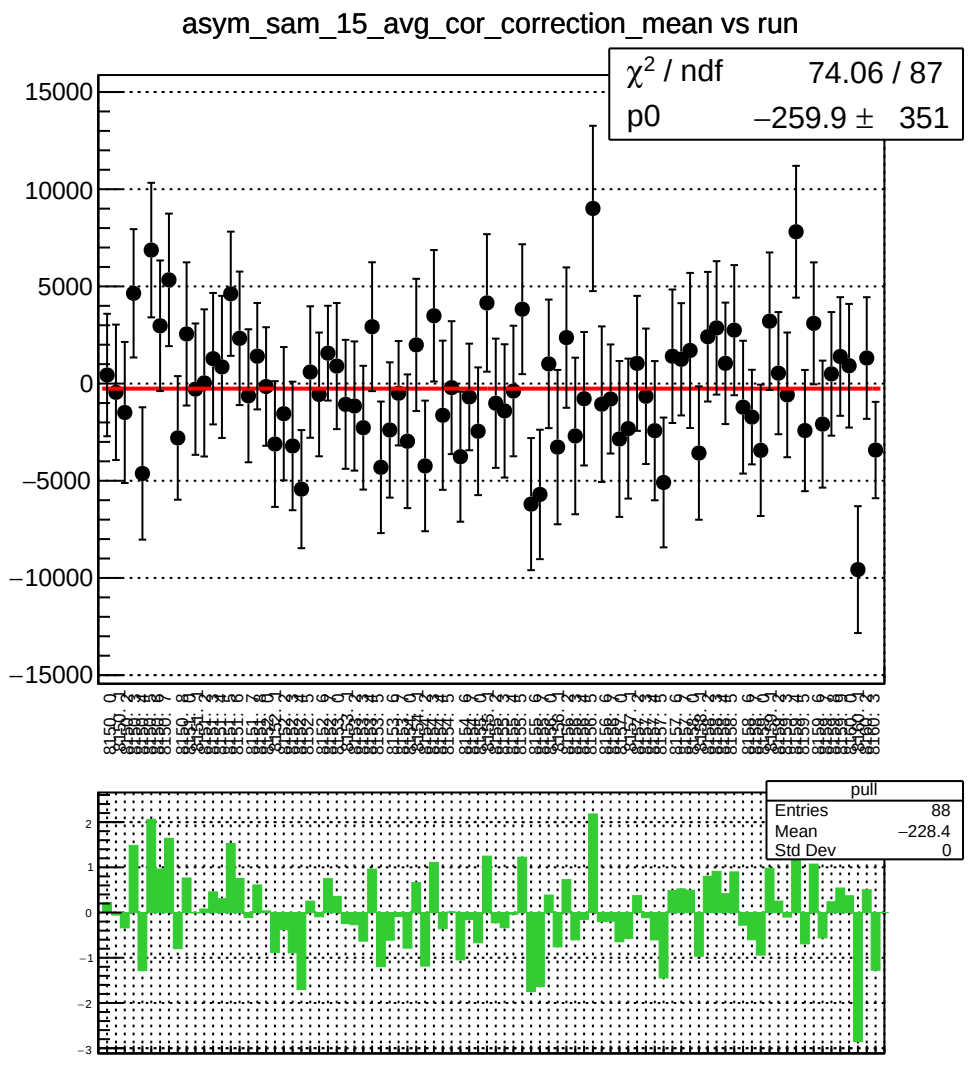

pull1D
Entries 88
Mean 0.008116
Std Dev 0.9174
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

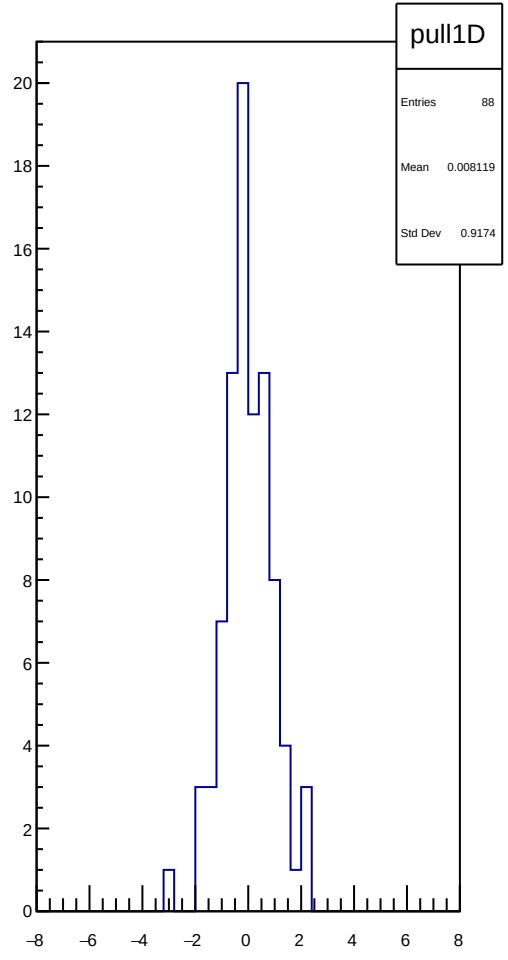

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 6947 / 87
p0 320.7 ± 0.2482
400
380
360
340
320
300
280

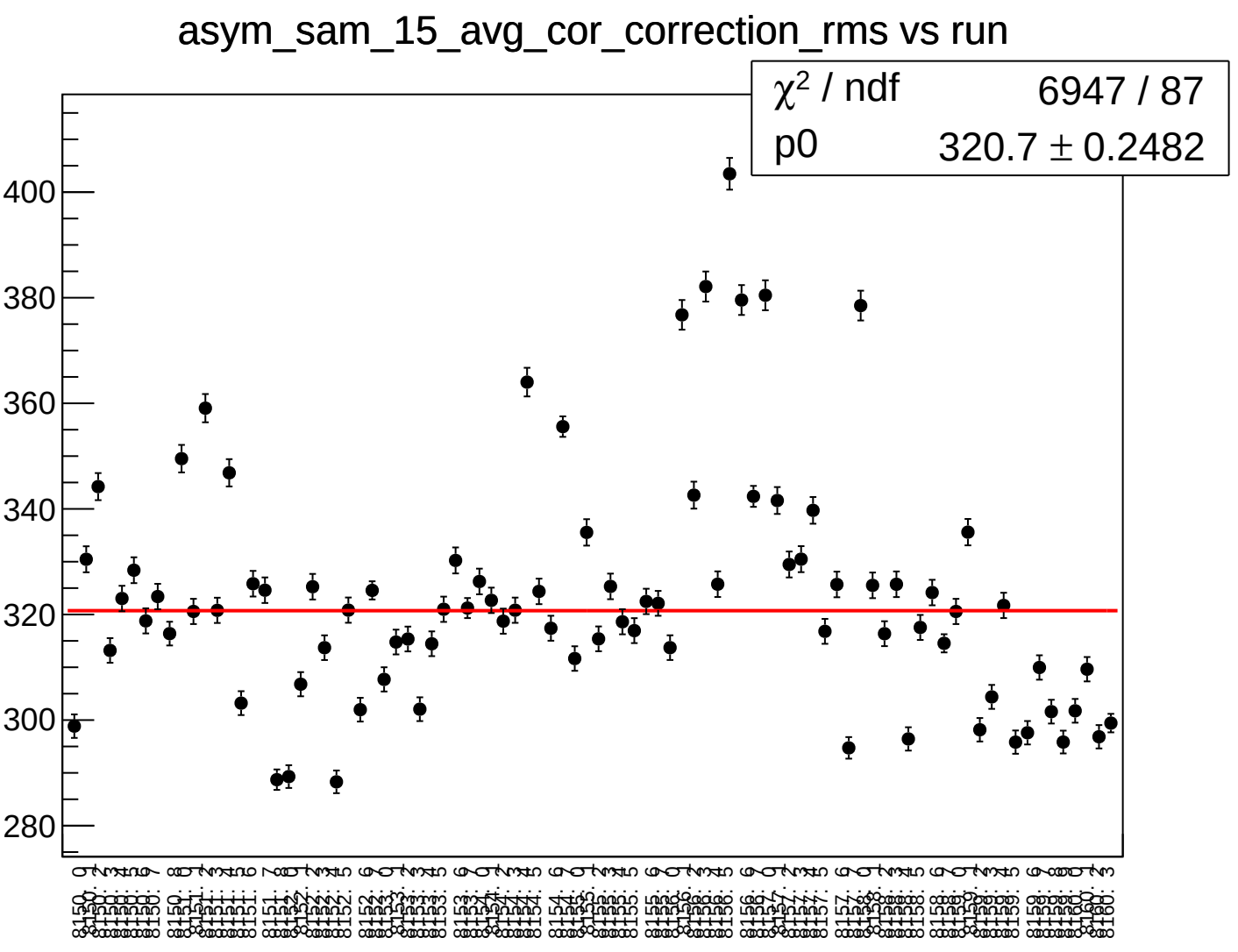

cor_asym_sam_15_avg_mean vs run
χ² / ndf 101.1 / 87
p0 117.8 ± 62.53
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 337.3
Std Dev 0
2
1
0
−1
−2
−3

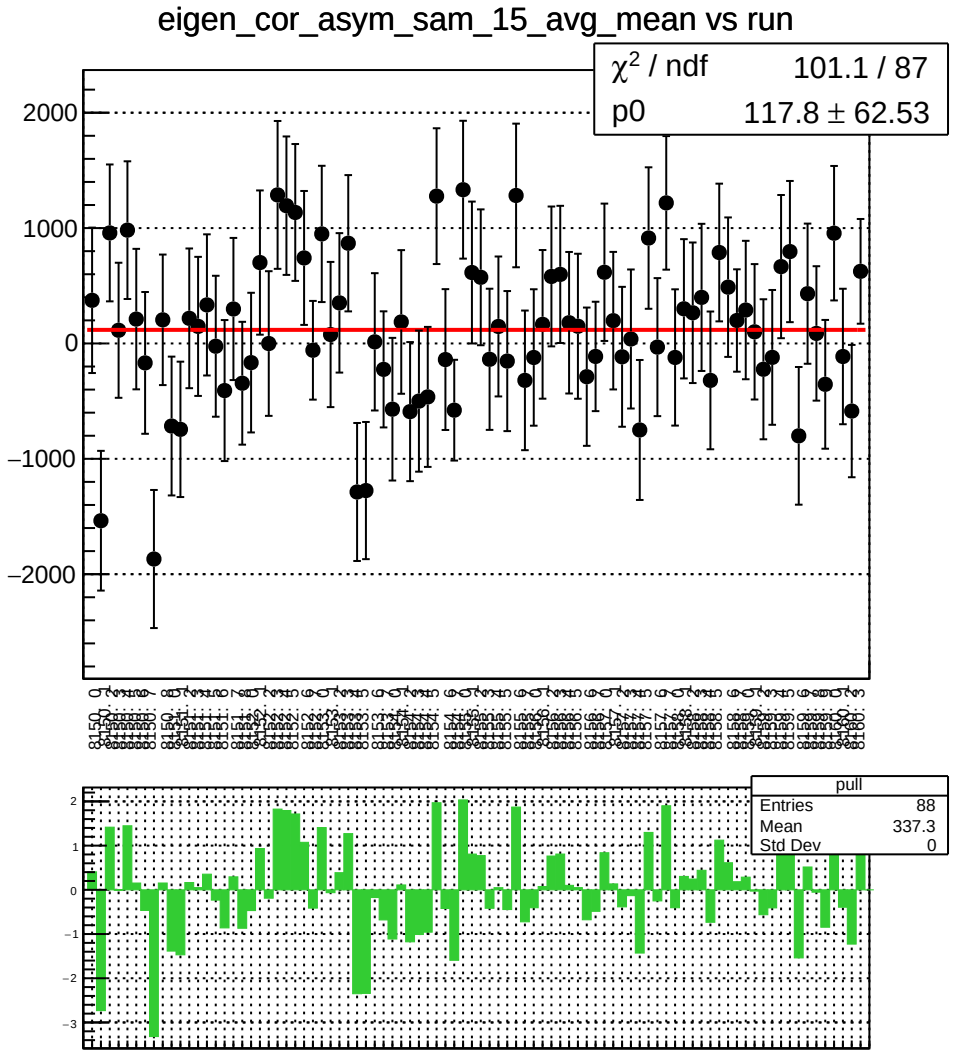

pull1D
Entries 88
Mean 0.00967
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

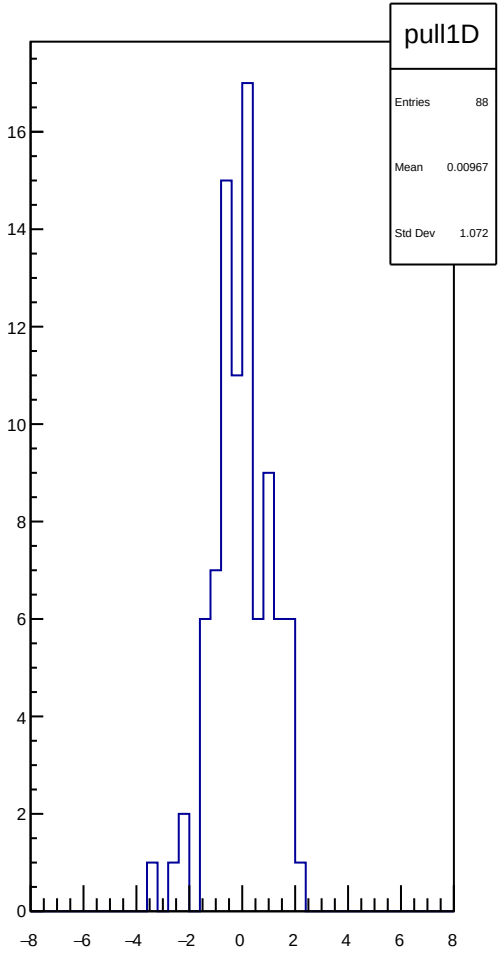

cor_asym_sam_15_avg_rms vs run
χ² / ndf 984.3 / 87
p0 57.24 ± 0.04422
62
61
60
59
58
57
56
55
54
53

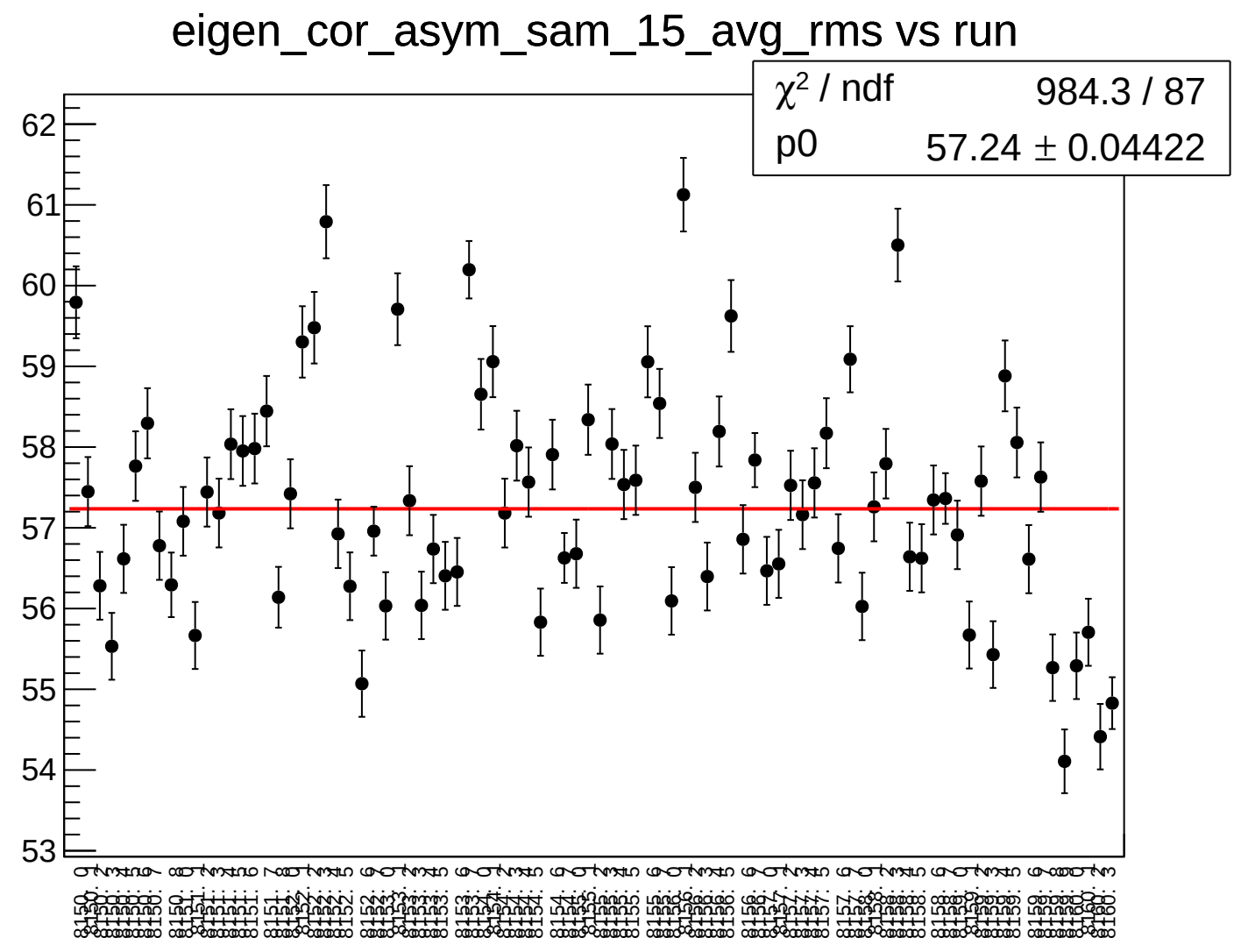

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 74.06 / 87
p0 −259.9 ± 351
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −228.4
Std Dev 0
2
1
0
−1
−2
−3

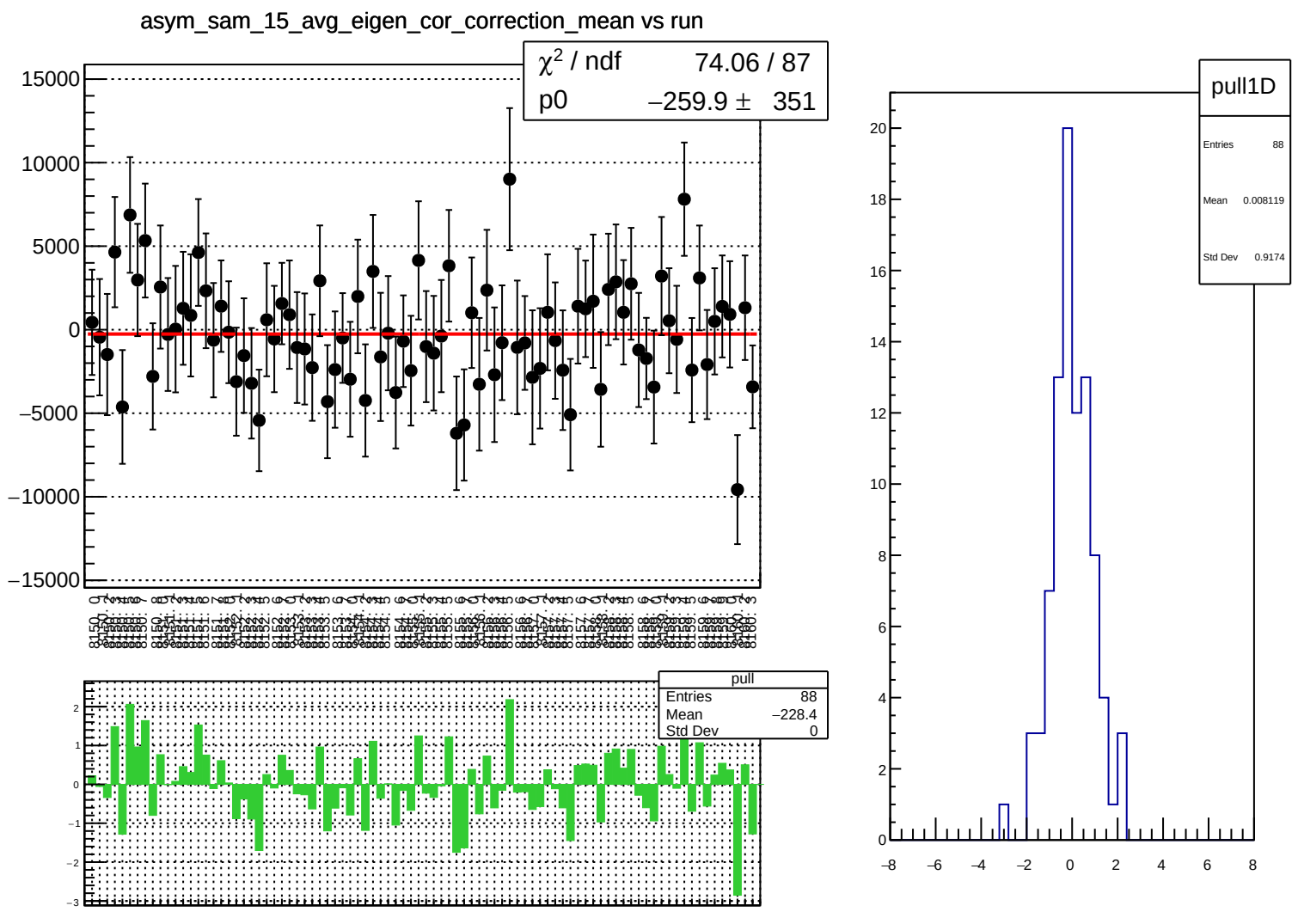

pull1D
Entries 88
Mean 0.008119
Std Dev 0.9174
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

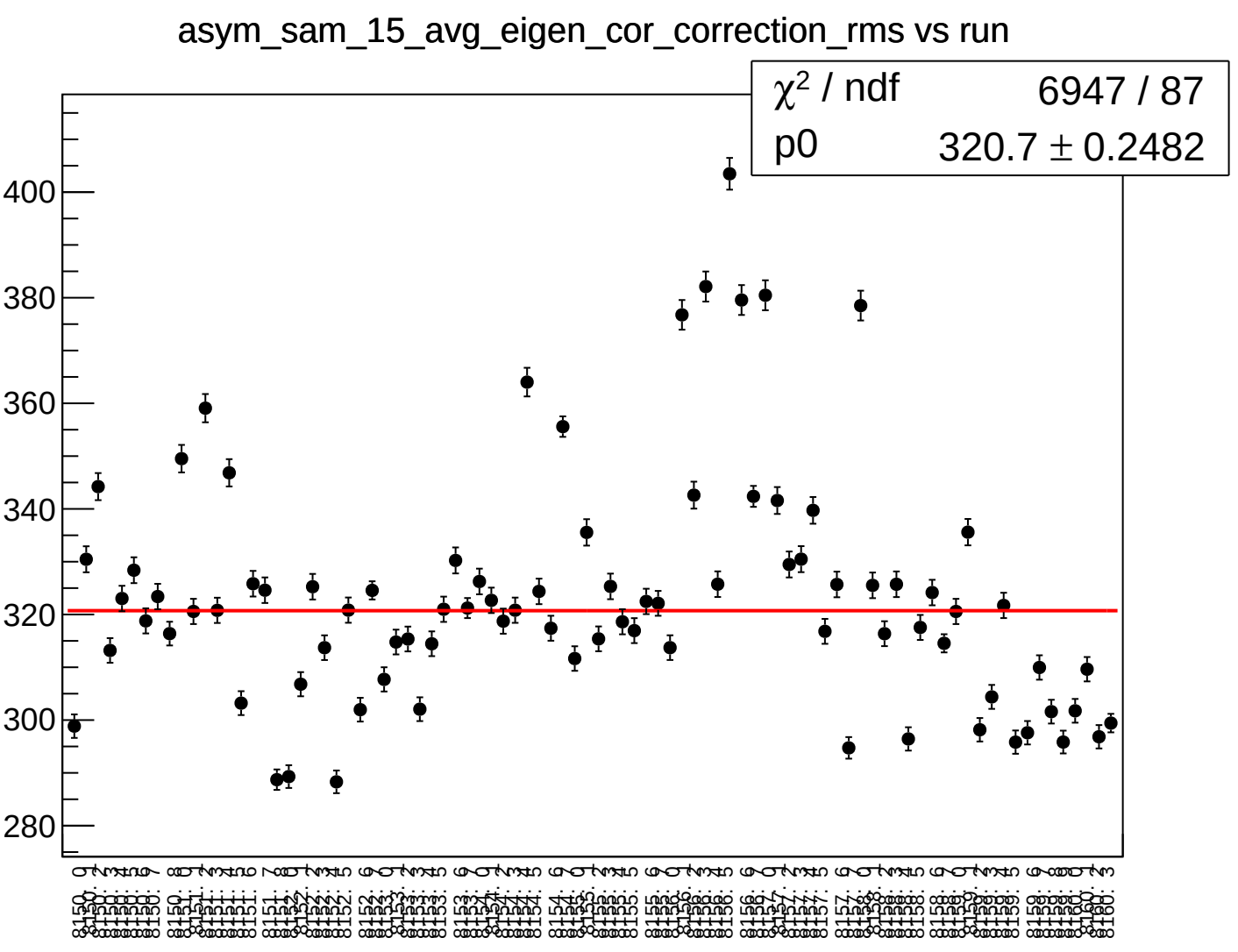

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 6947 / 87
p0 320.7 ± 0.2482
400
380
360
340
320
300
280

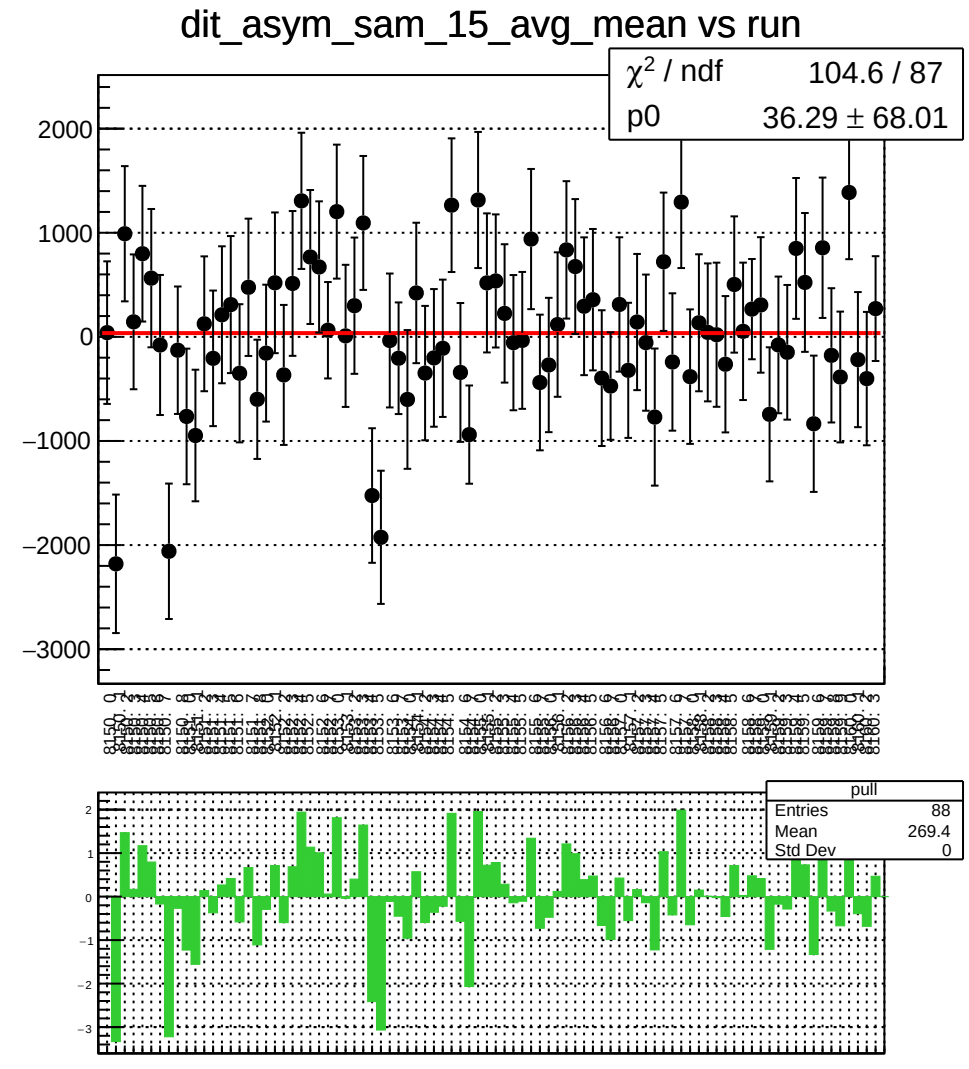

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 101.1 / 87
p0 117.8 ± 62.53
pull
Entries 88
Mean 337.3
Std Dev 0

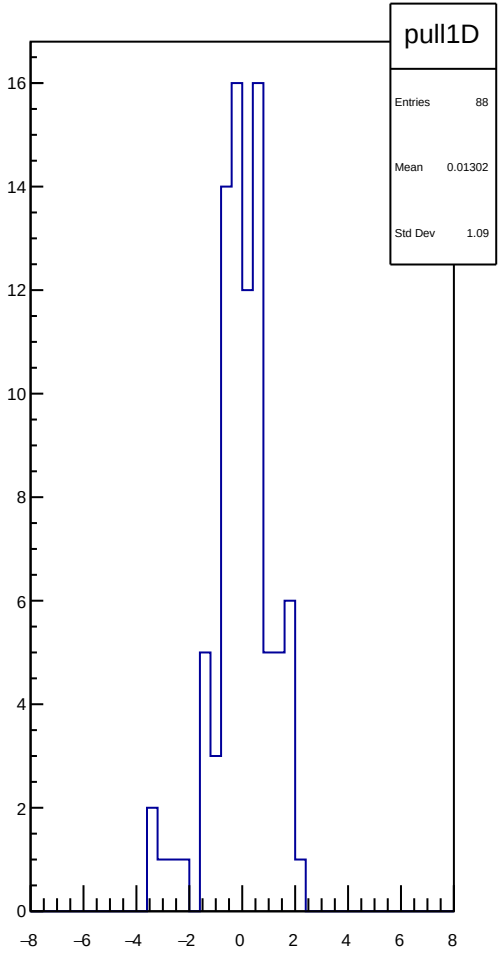

pull1D
Entries 88
Mean 0.00967
Std Dev 1.072

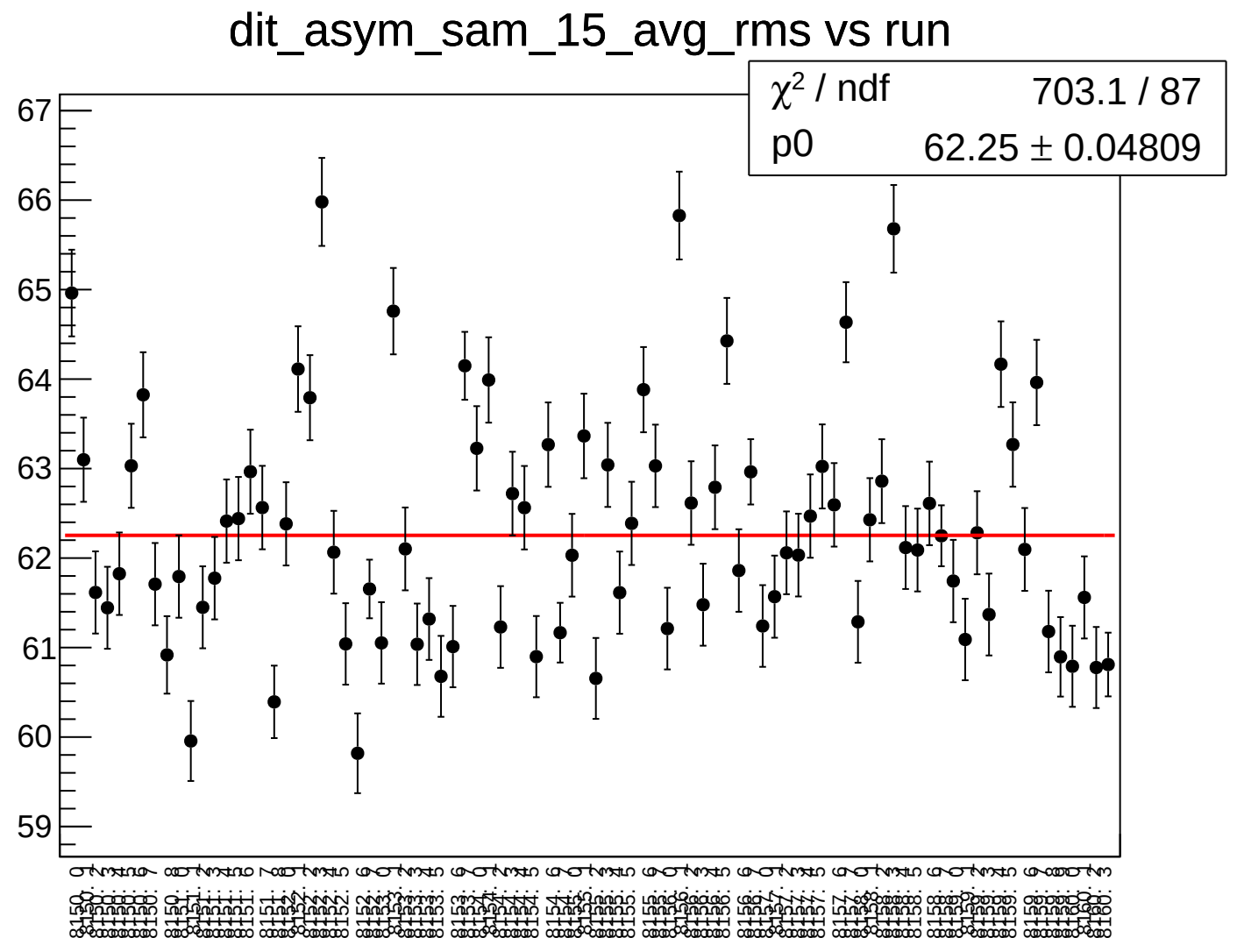

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 984.3 / 87
p0 57.24 ± 0.04422
62
61
60
59
58
57
56
55
54
53

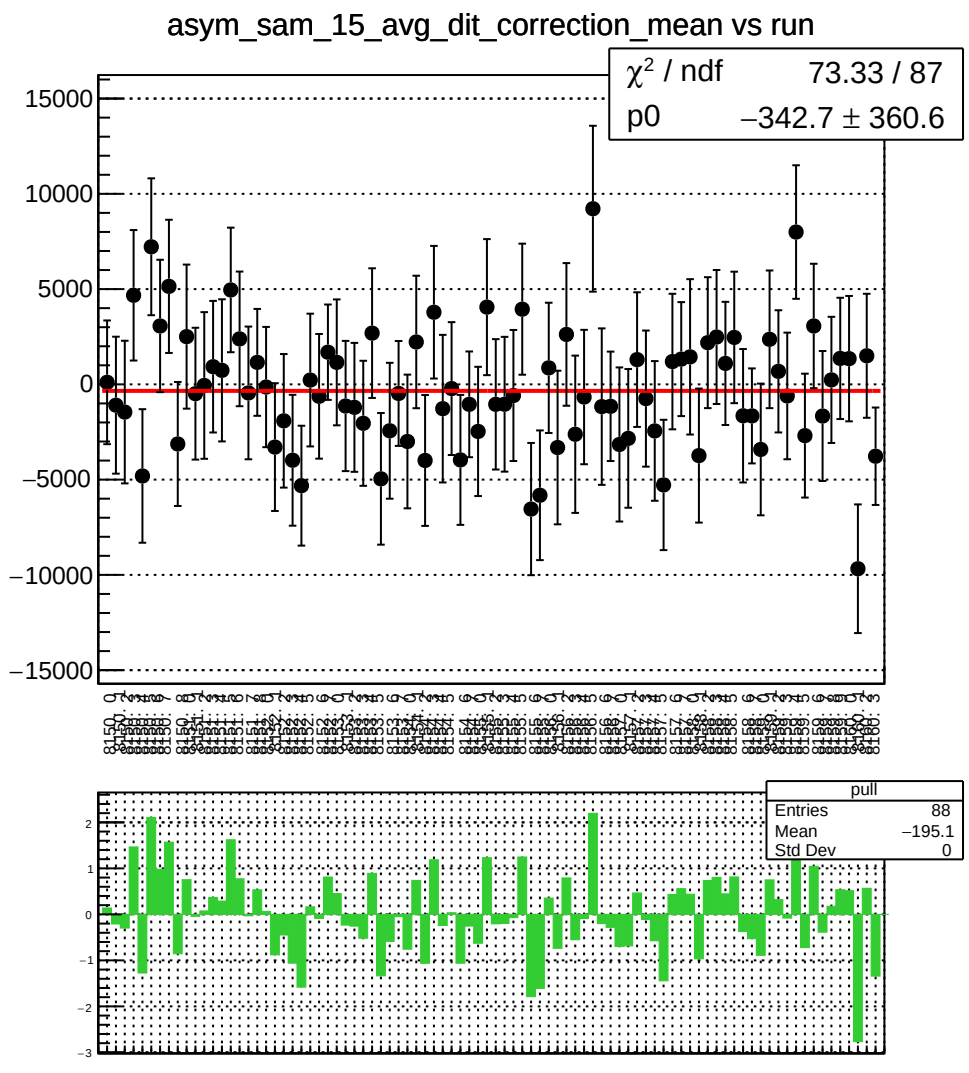

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.06 / 87
p0 −259.9 ± 351
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −228.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.008119
Std Dev 0.9174
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

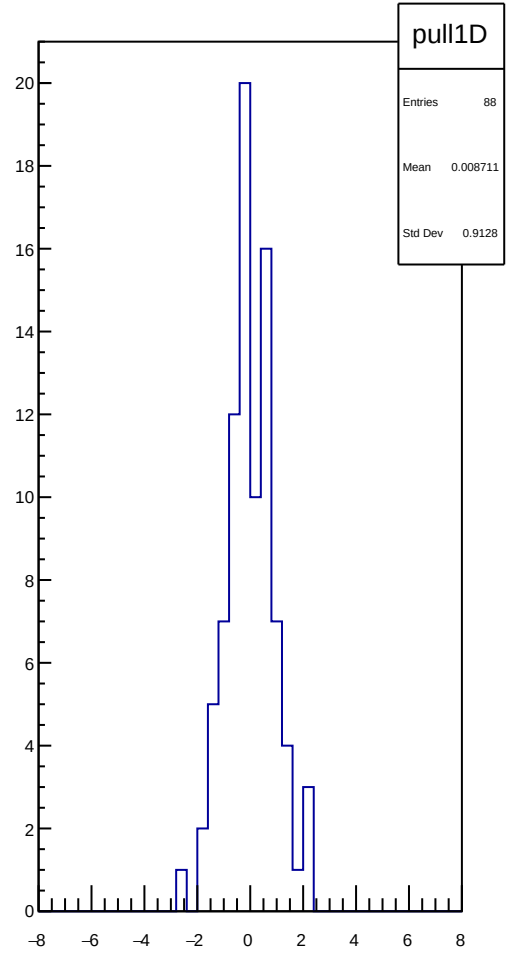

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 6947 / 87
p0 320.7 ± 0.2482
400
380
360
340
320
300
280

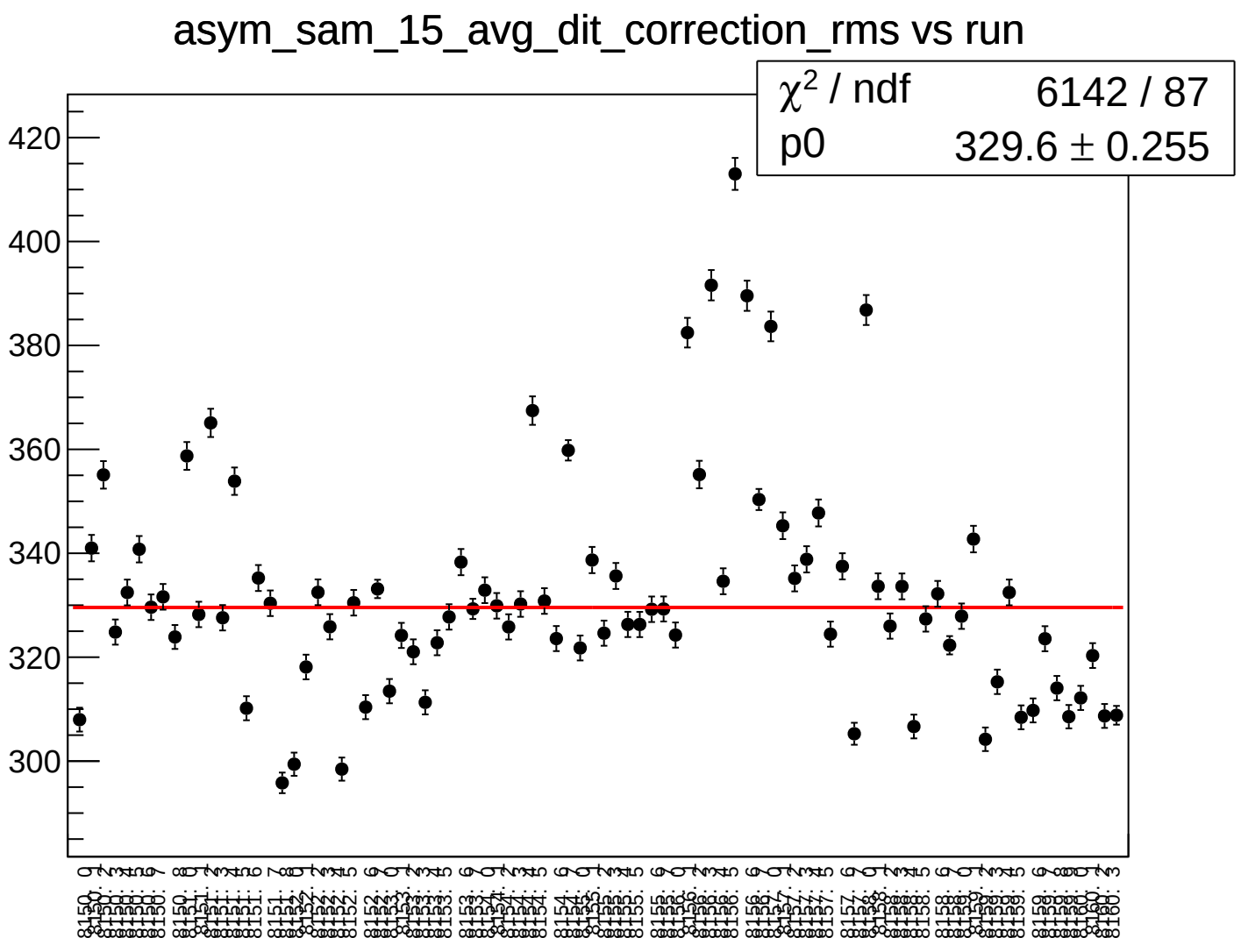

dit_asym_sam_15_avg_mean vs run
χ² / ndf 104.6 / 87
p0 36.29 ± 68.01
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 269.4
Std Dev 0
2
1
0
−1
−2
−3

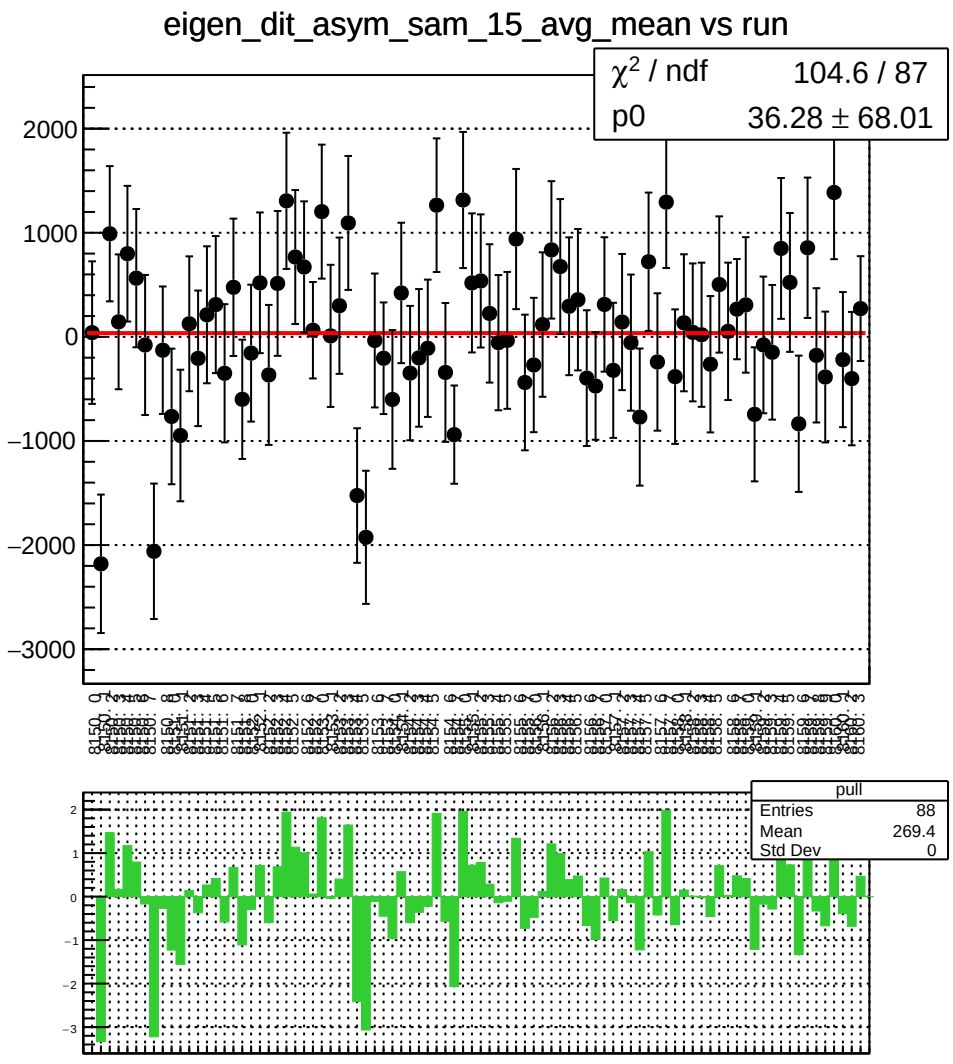

pull1D
Entries 88
Mean 0.01302
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

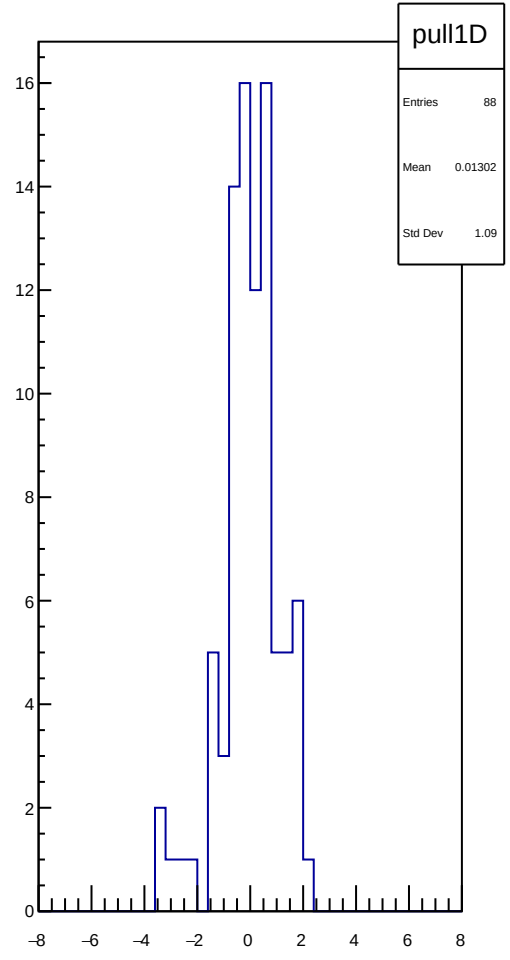

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 703.1 / 87
p0 62.25 ± 0.04809
67
66
65
64
63
62
61
60
59

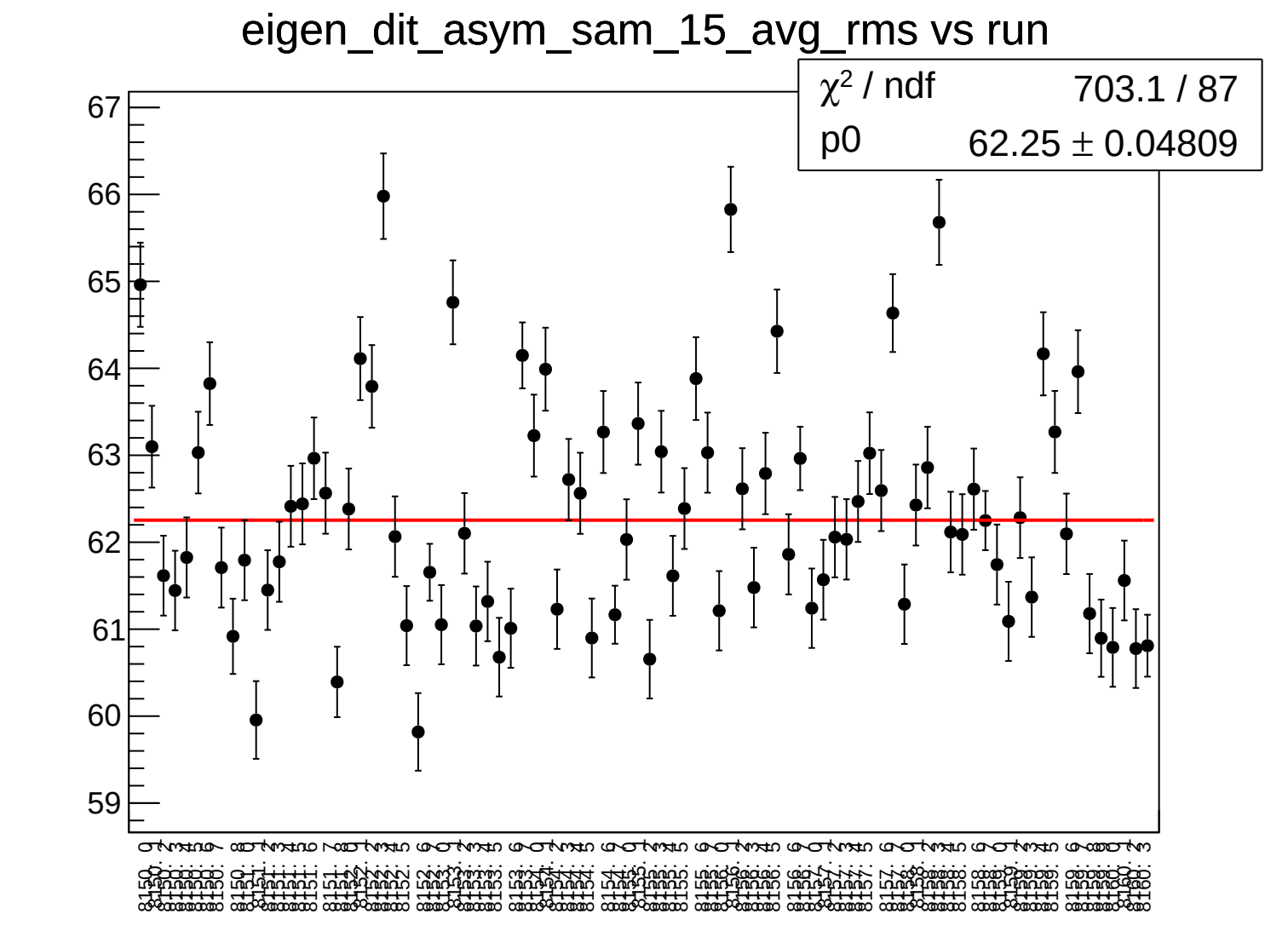

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 73.33 / 87
p0 −342.7 ± 360.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −195.1
Std Dev 0
2
1
0
−1
−2
−3

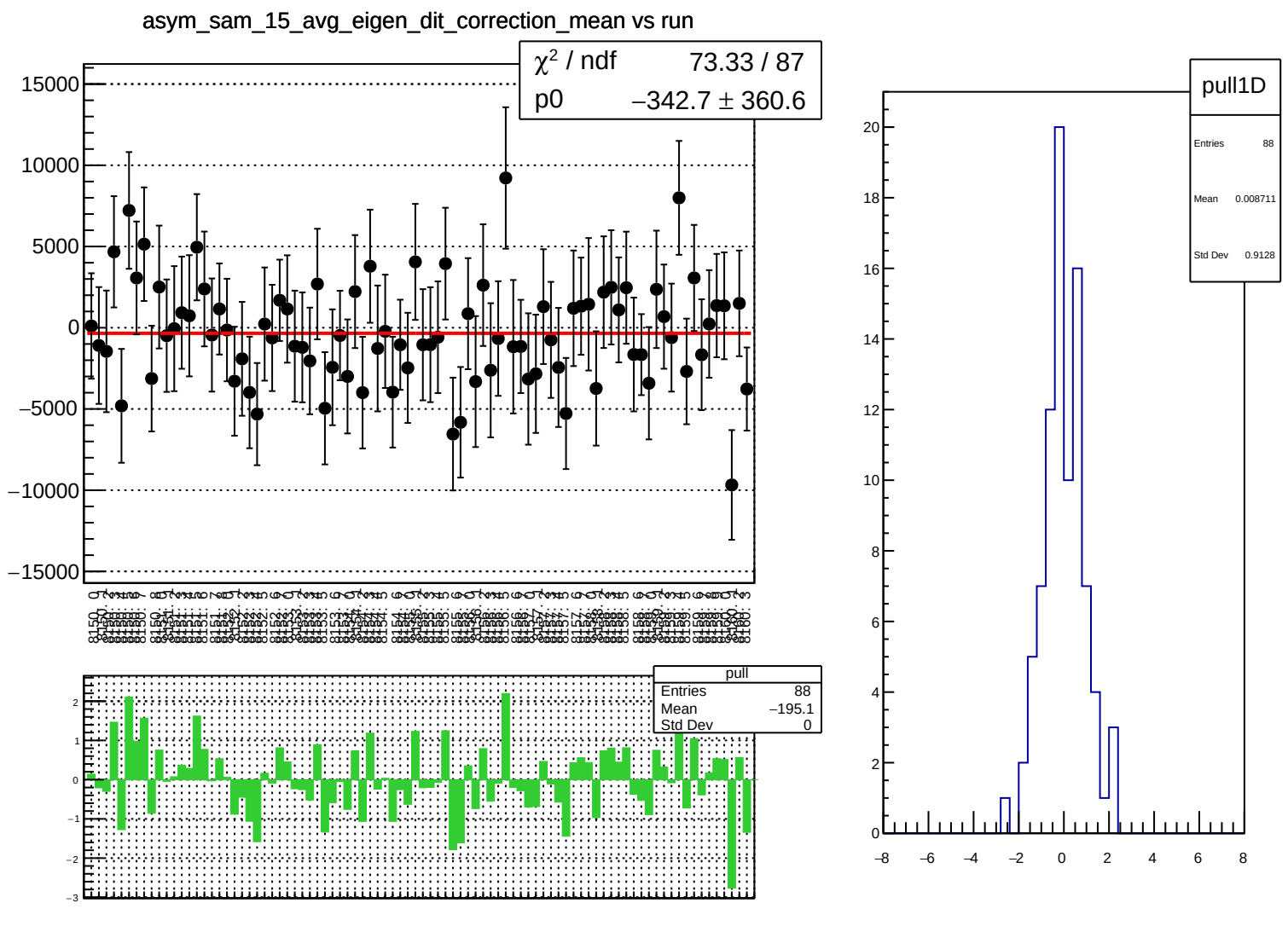

pull1D
Entries 88
Mean 0.008711
Std Dev 0.9128
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

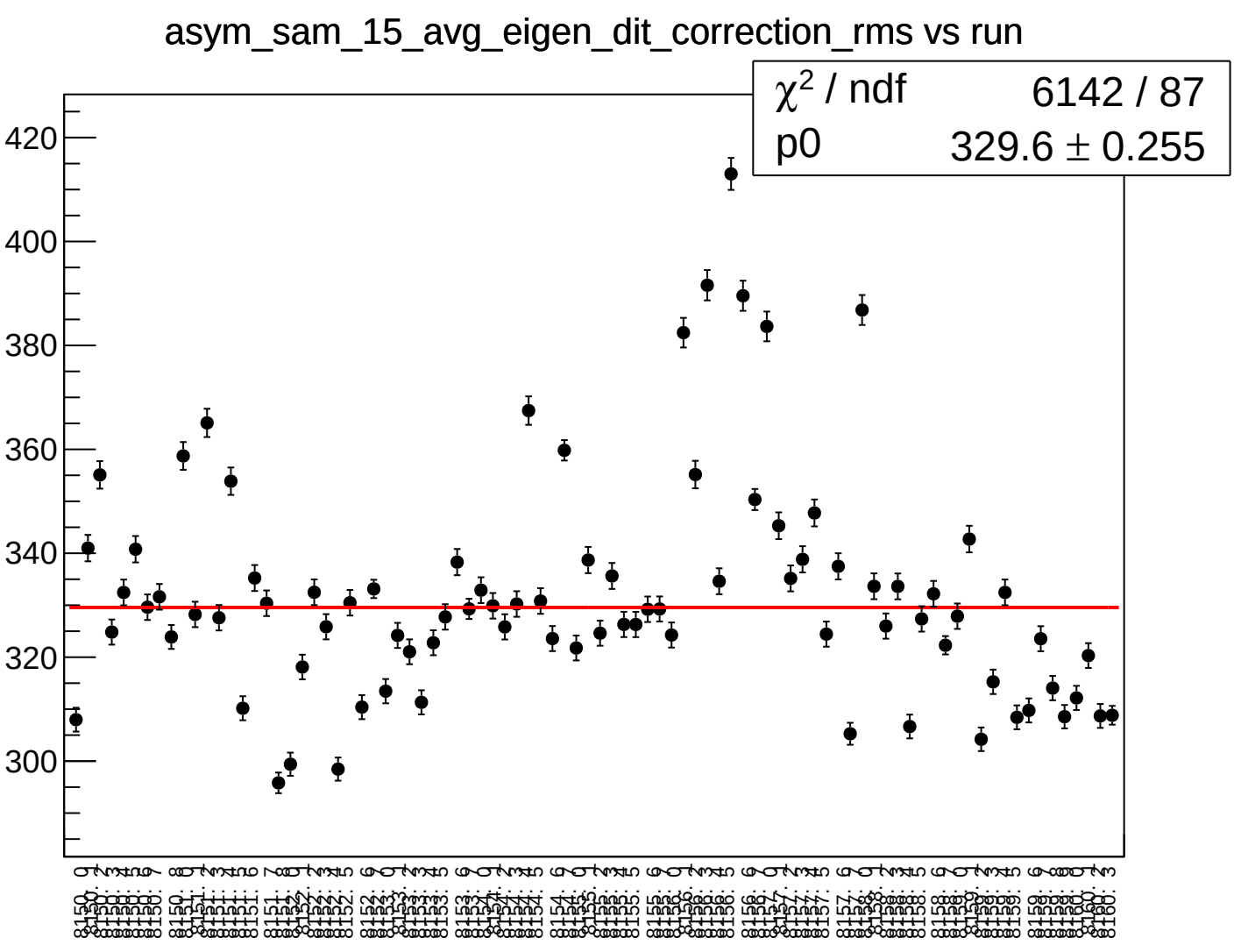

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 6142 / 87
p0 329.6 ± 0.255
420
400
380
360
340
320
300

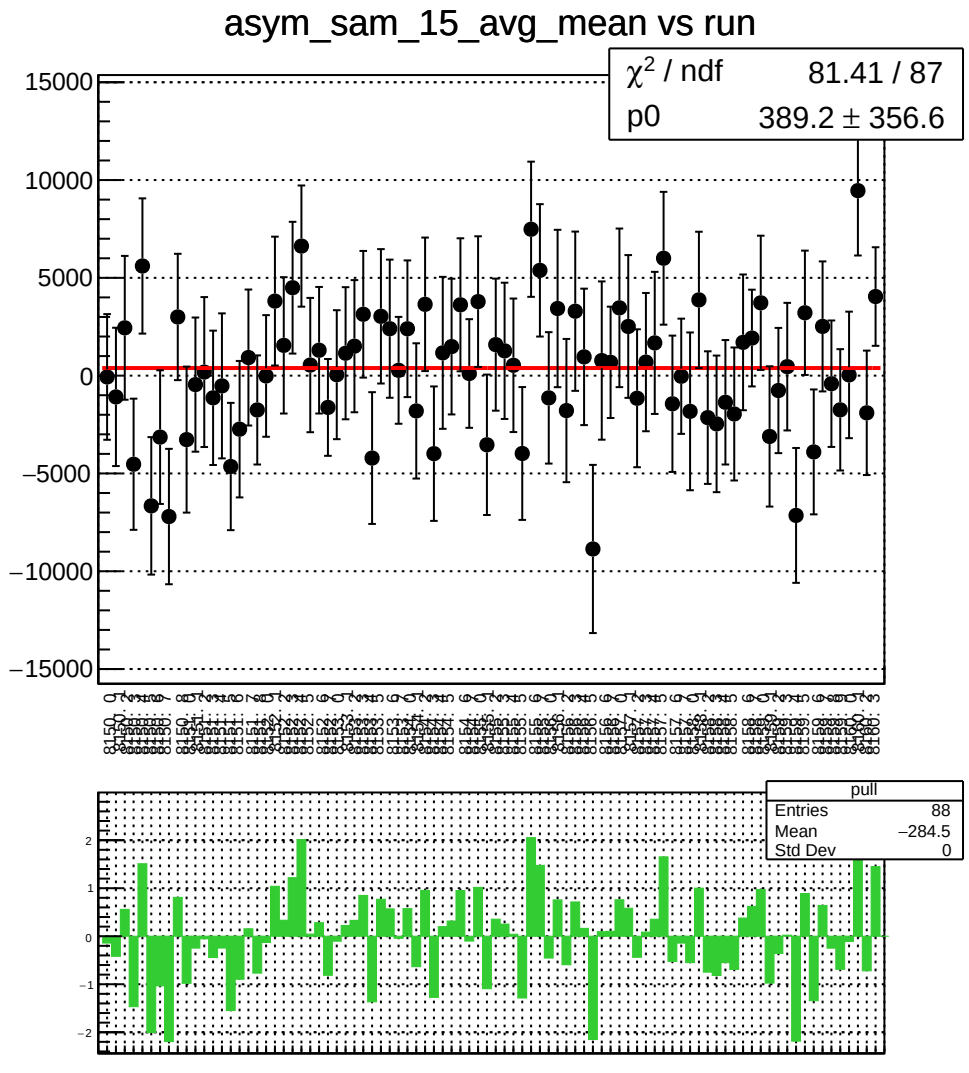

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 104.6 / 87
p0 36.28 ± 68.01
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 269.4
Std Dev 0
2
1
0
−1
−2
−3

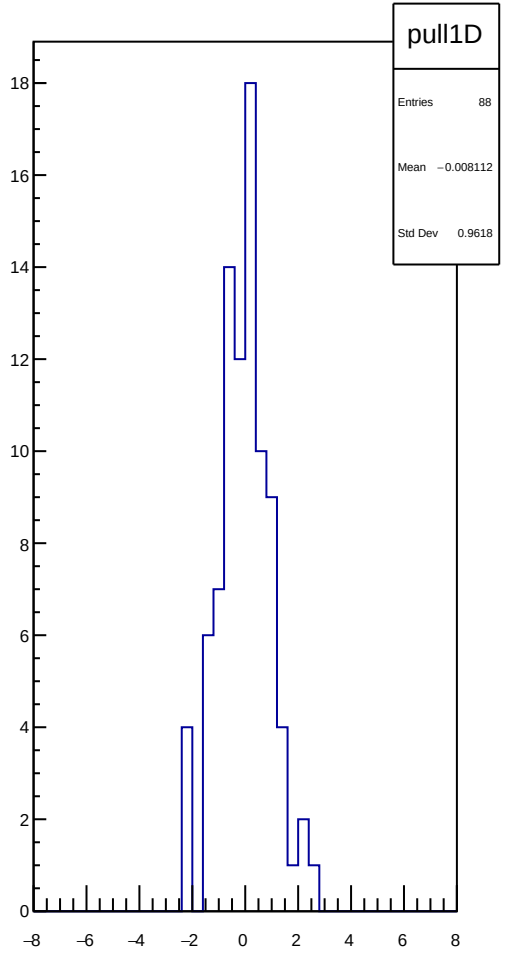

pull1D
Entries 88
Mean 0.01302
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

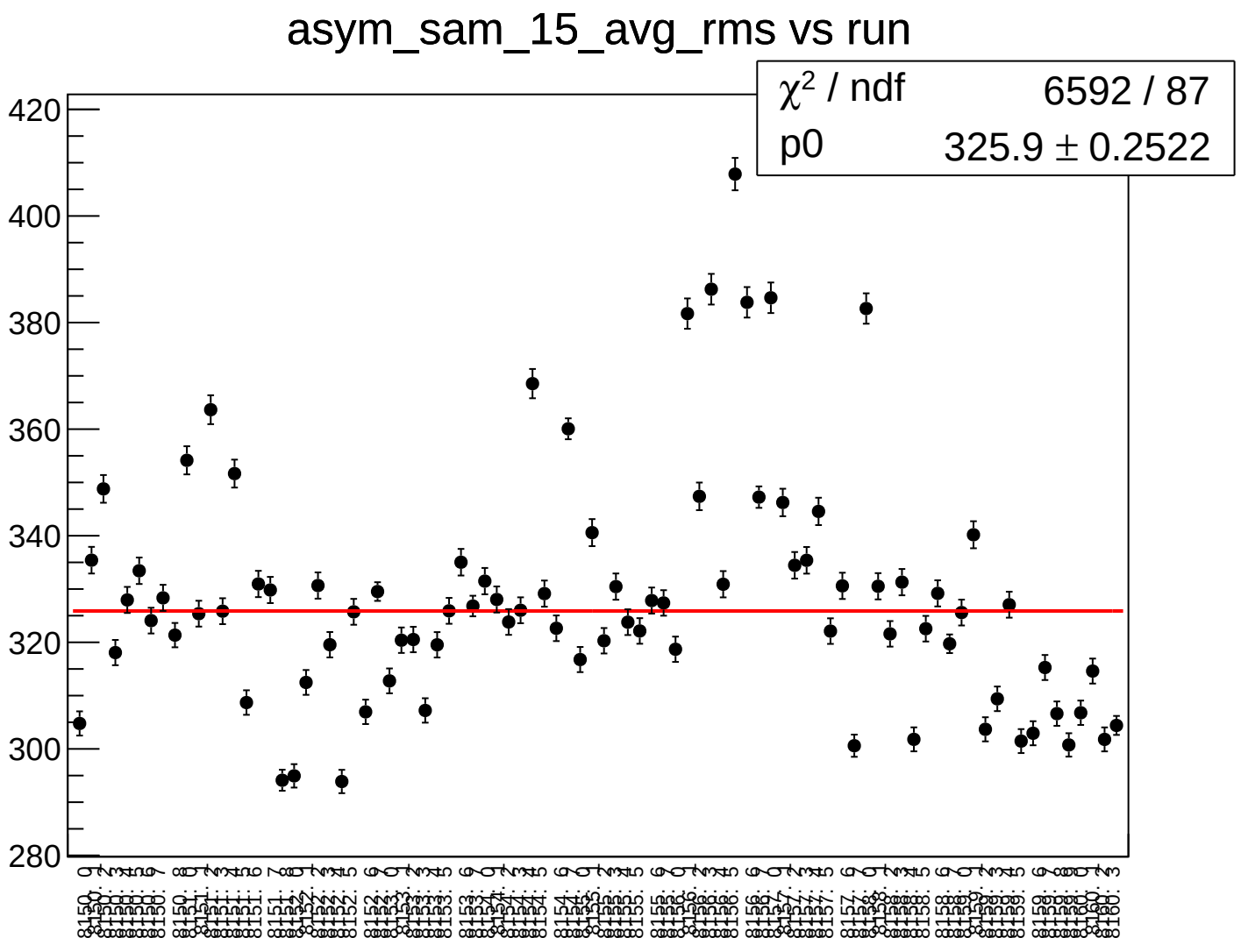

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 703.1 / 87
p0 62.25 ± 0.04809
67
66
65
64
63
62
61
60
59

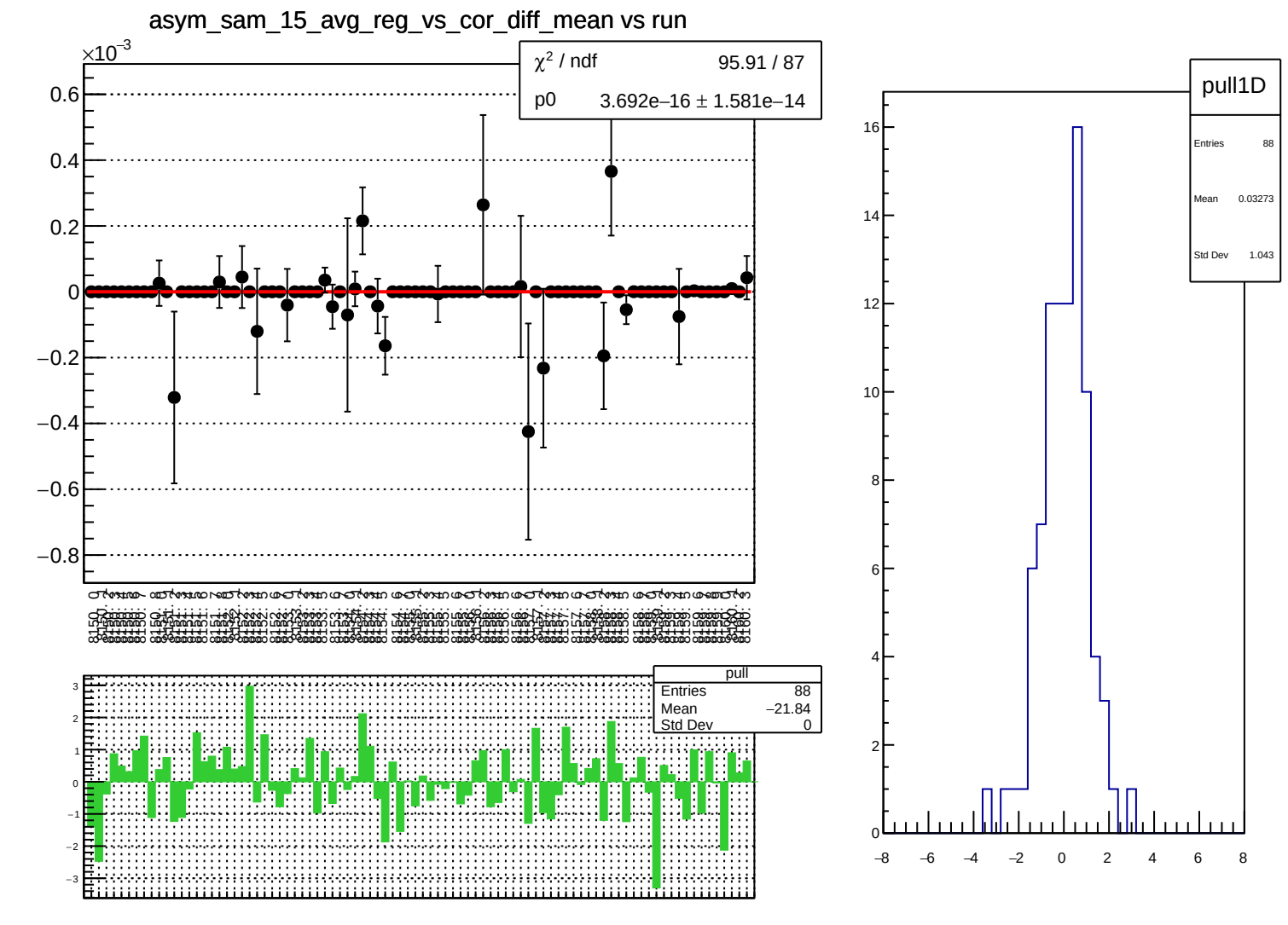

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 73.33 / 87
p0 −342.7 ± 360.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −195.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.008711
Std Dev 0.9128
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

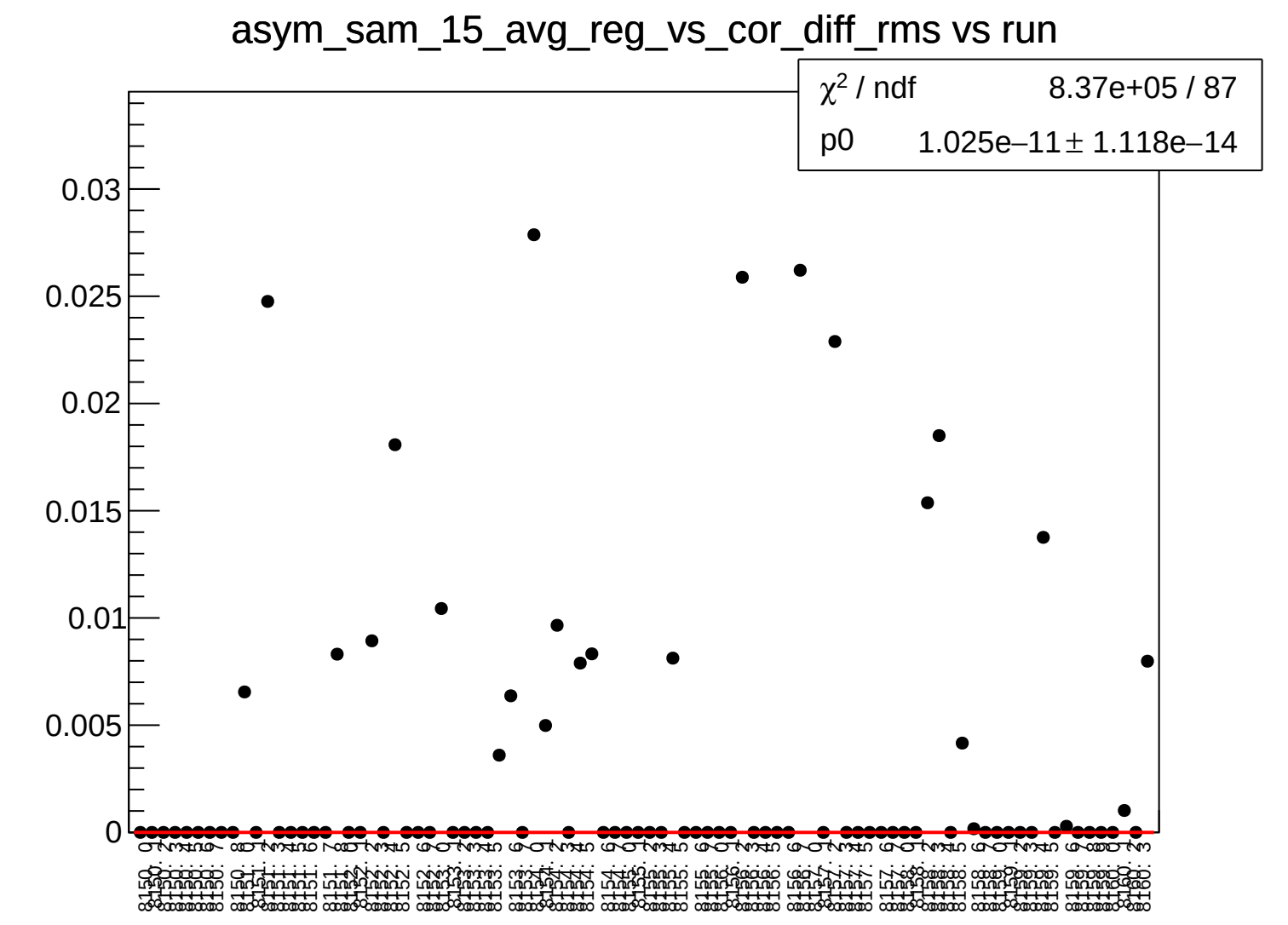

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 6142 / 87
p0 329.6 ± 0.255
420
400
380
360
340
320
300

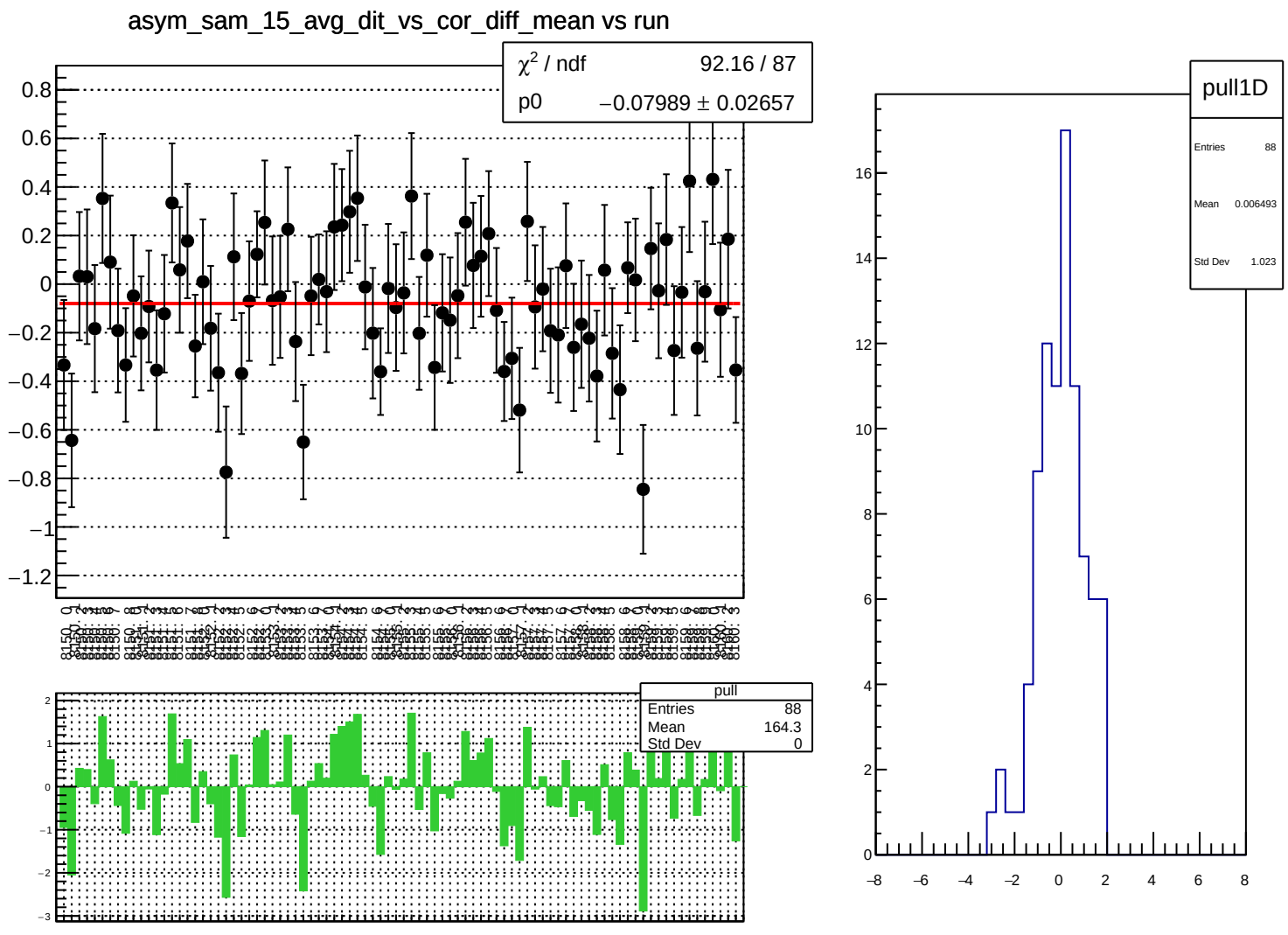

asym_sam_15_avg_mean vs run
χ² / ndf 81.41 / 87
p0 389.2 ± 356.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −284.5
Std Dev 0
2
1
0
−1
−2

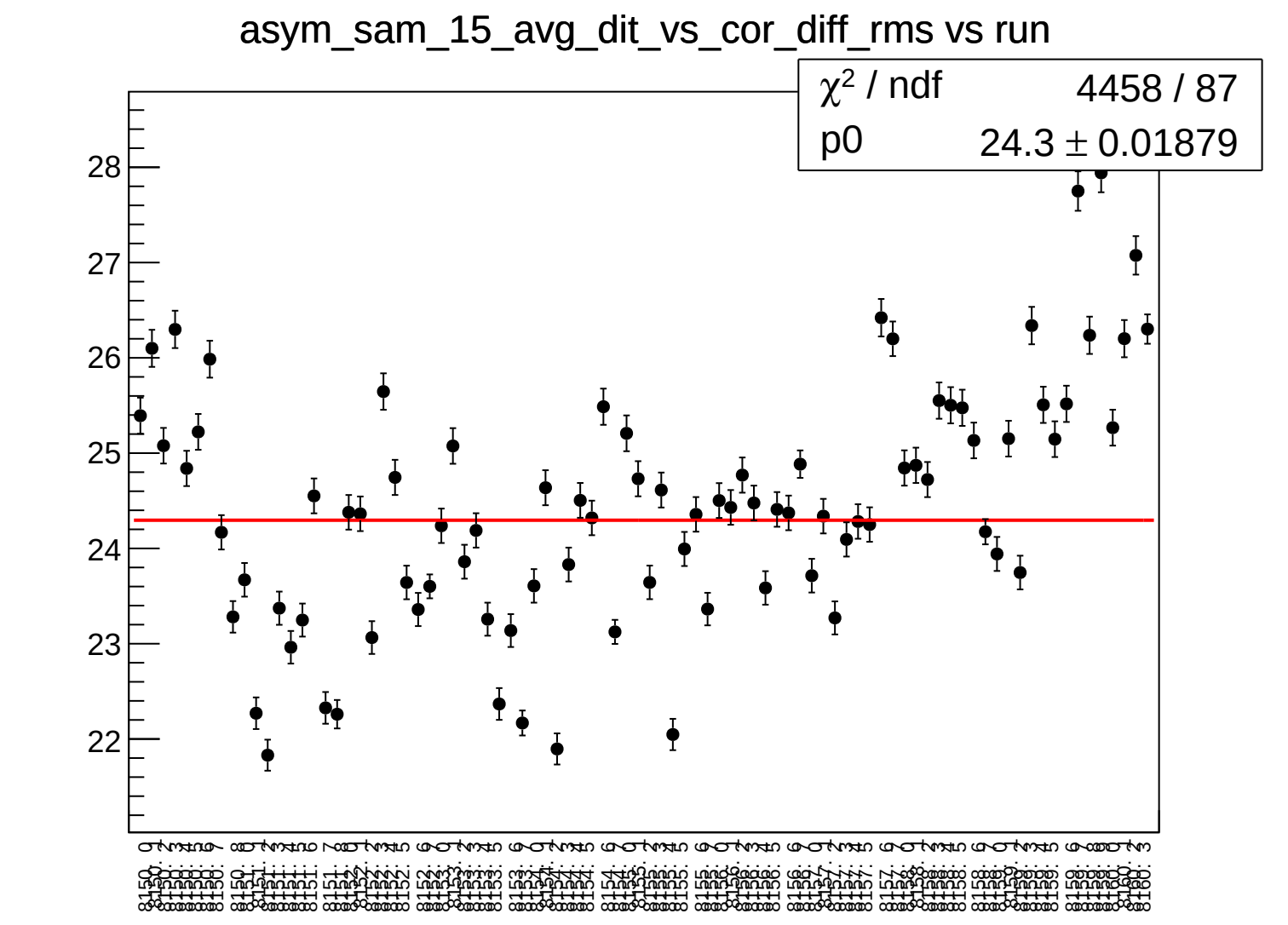

pull1D
Entries 88
Mean −0.008112
Std Dev 0.9618
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

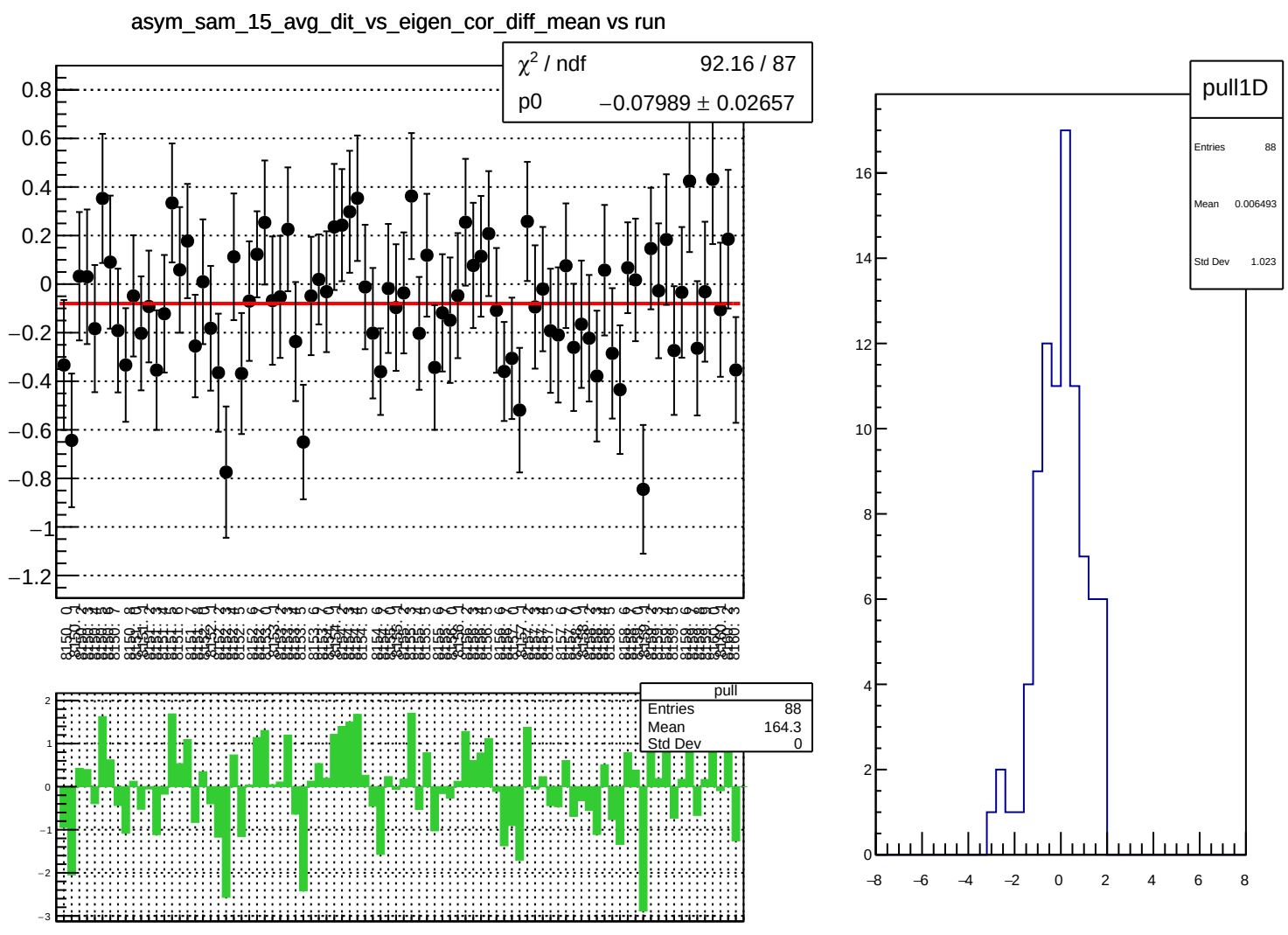

asym_sam_15_avg_rms vs run
χ² / ndf 6592 / 87
p0 325.9 ± 0.2522
420
400
380
360
340
320
300
280

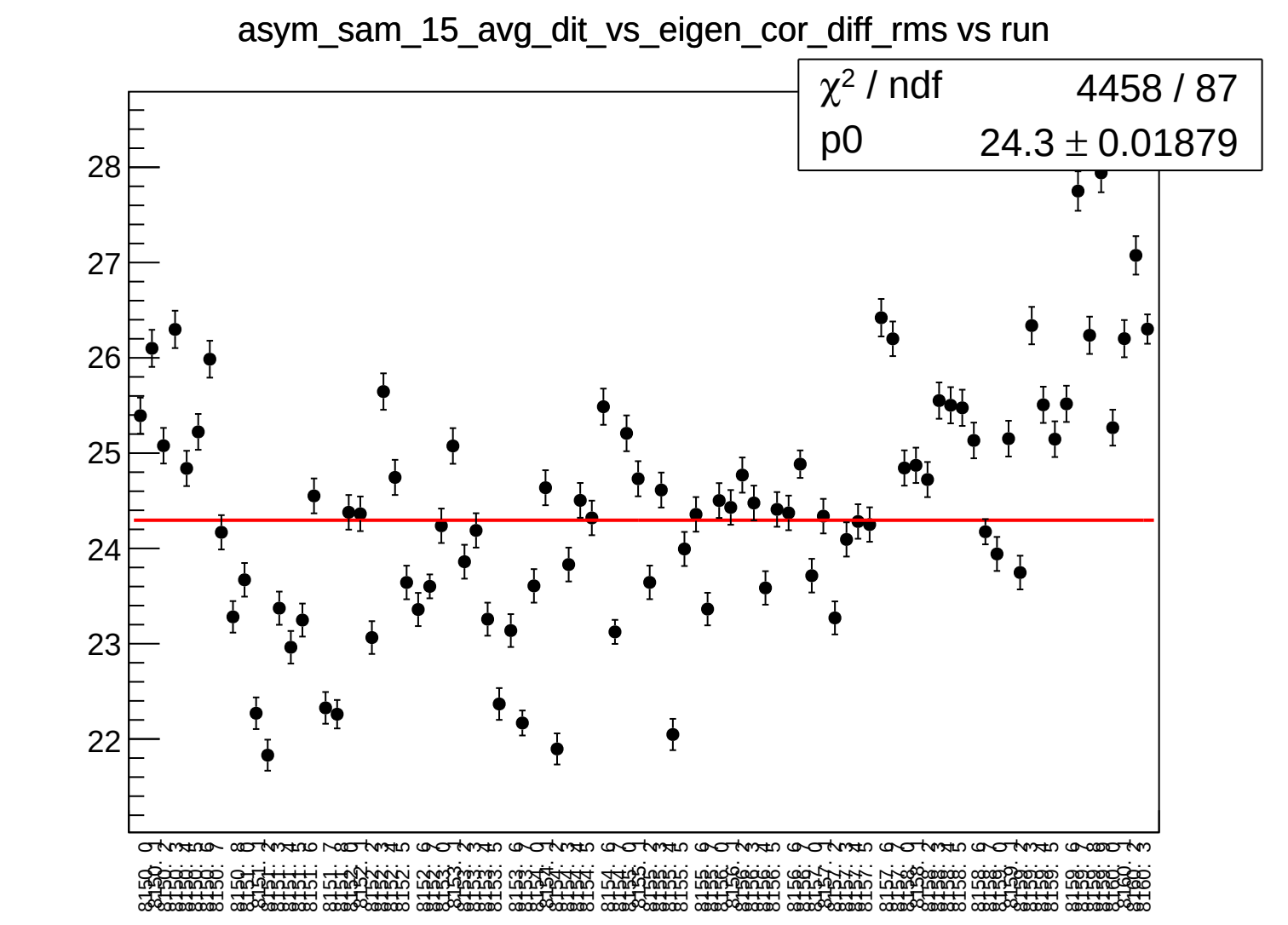

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 95.91 / 87
p0 3.692e−16 ± 1.581e−14
pull
Entries 88
Mean −21.84
Std Dev 0
pull1D
Entries 88
Mean 0.03273
Std Dev 1.043

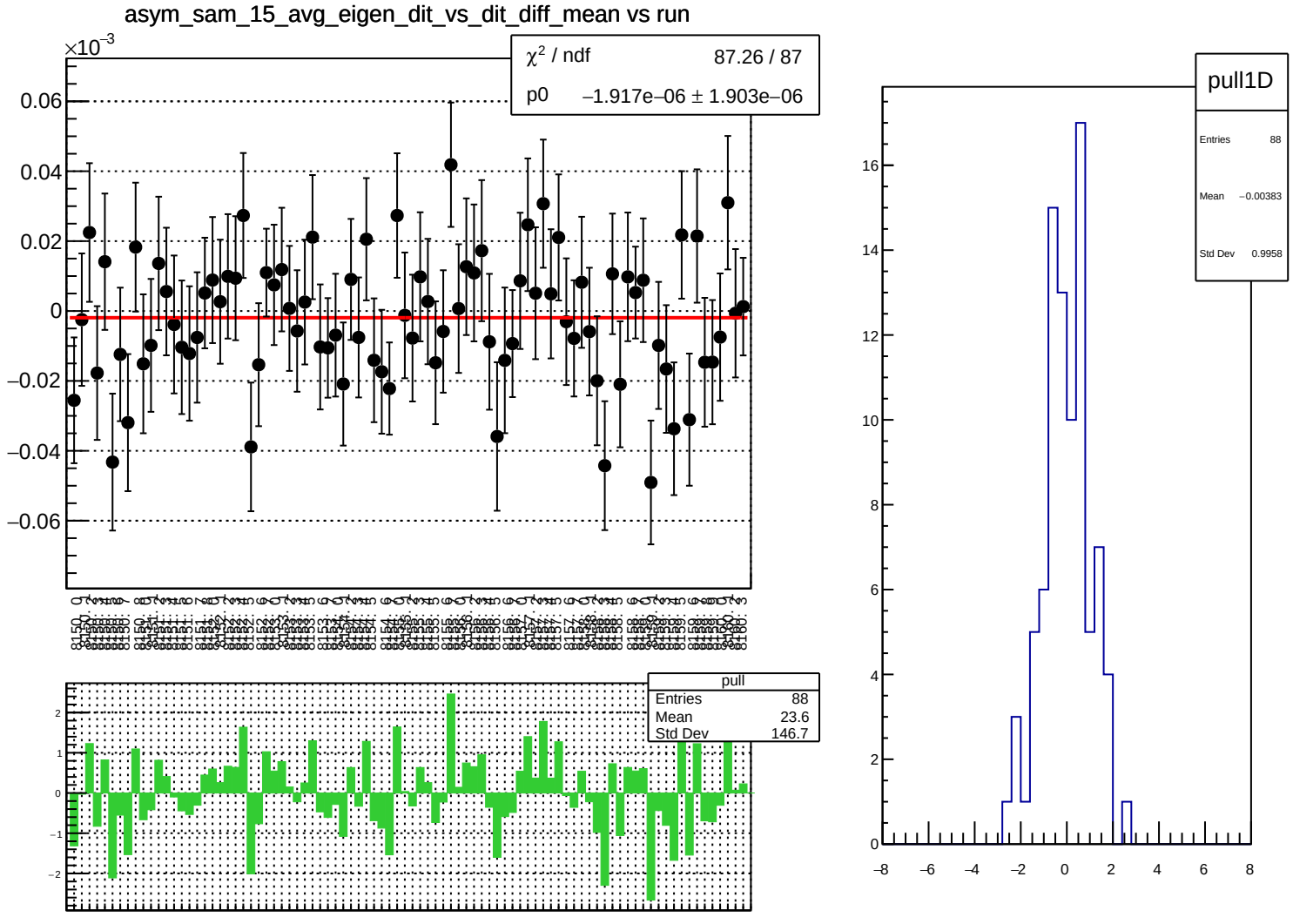

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.37e+05 / 87
p0 1.025e−11 ± 1.118e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

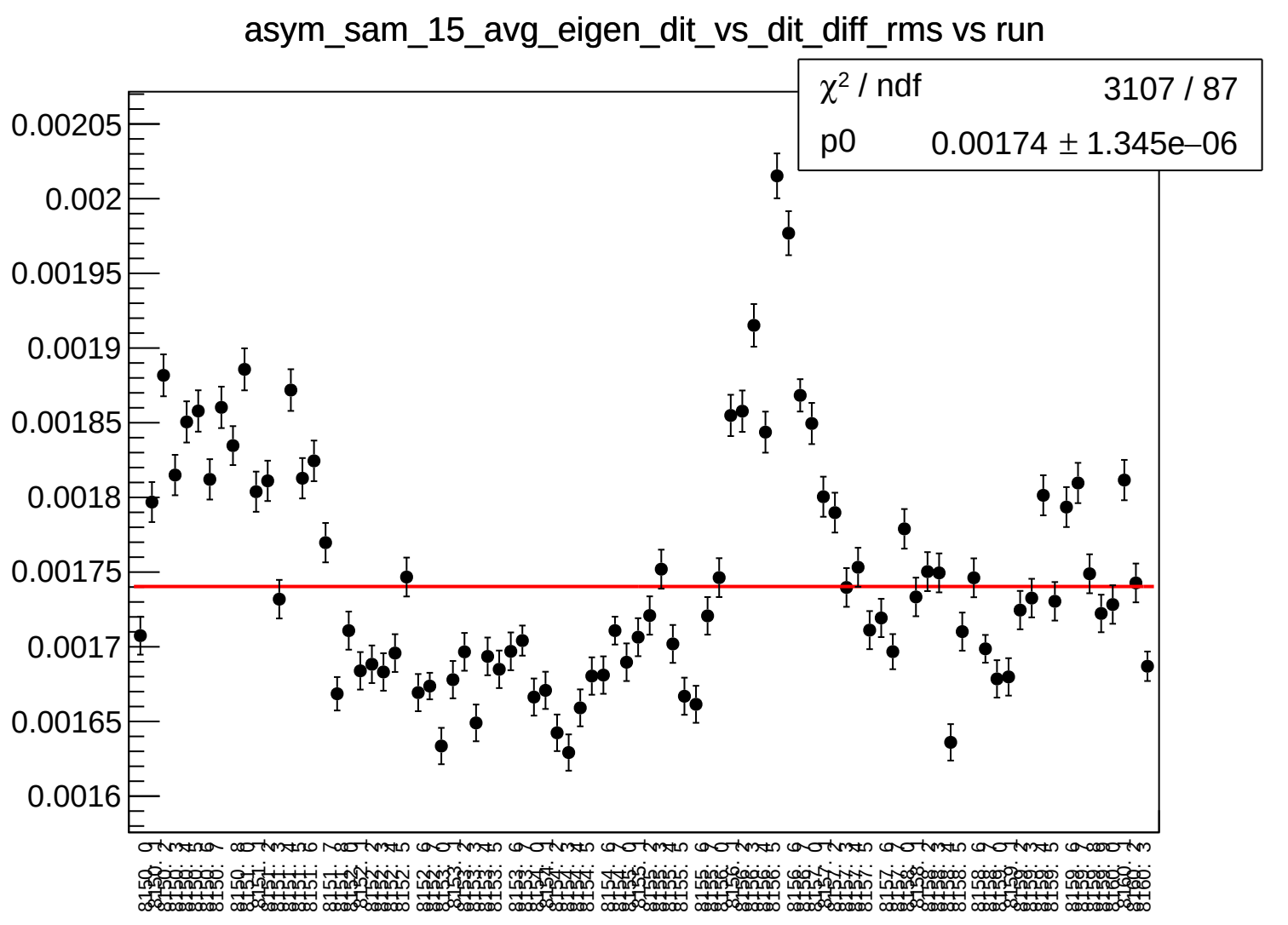

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.16 / 87
p0 −0.07989 ± 0.02657
pull
Entries 88
Mean 164.3
Std Dev 0
pull1D
Entries 88
Mean 0.006493
Std Dev 1.023

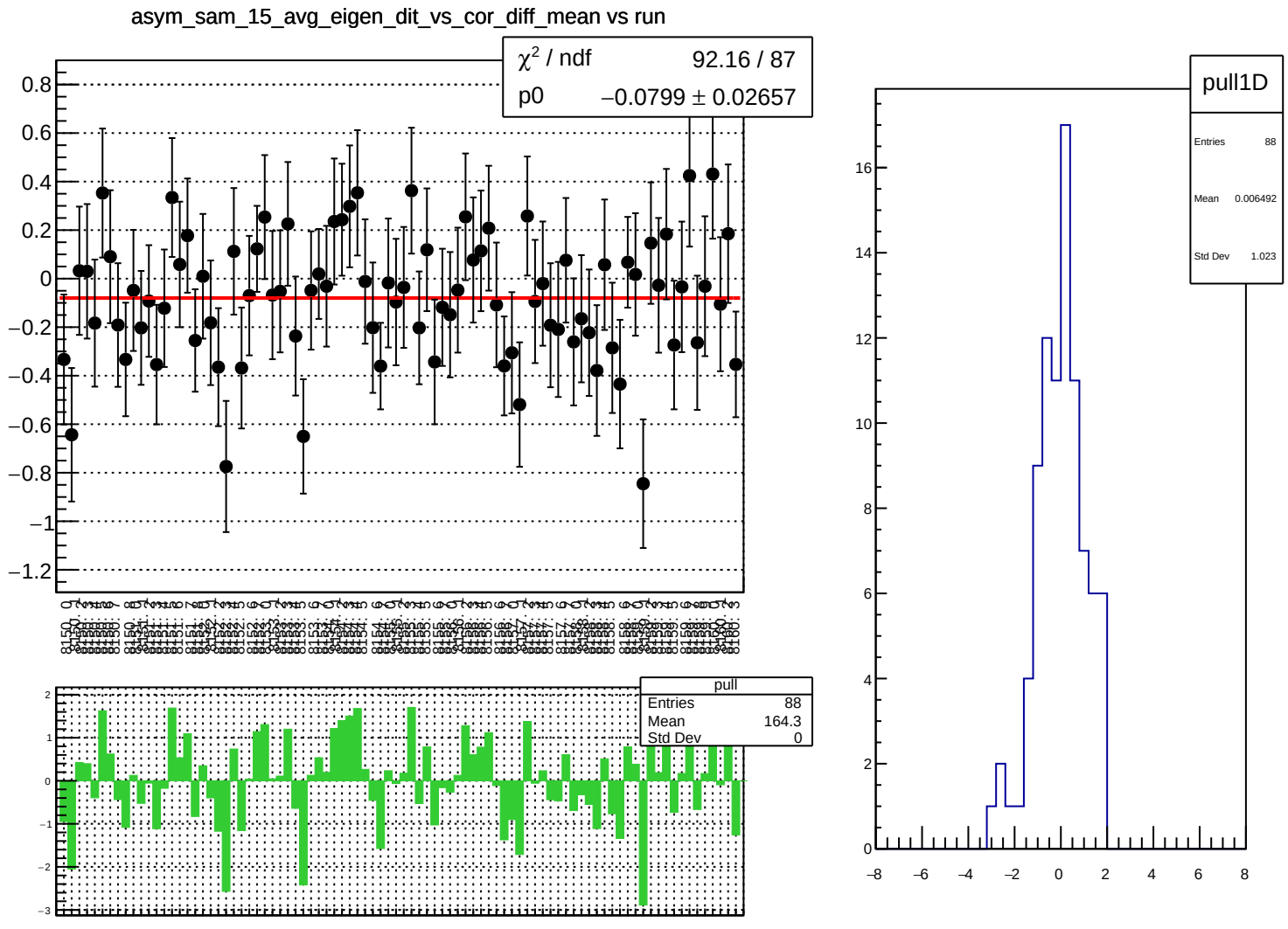

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4458 / 87
p0 24.3 ± 0.01879
28
27
26
25
24
23
22

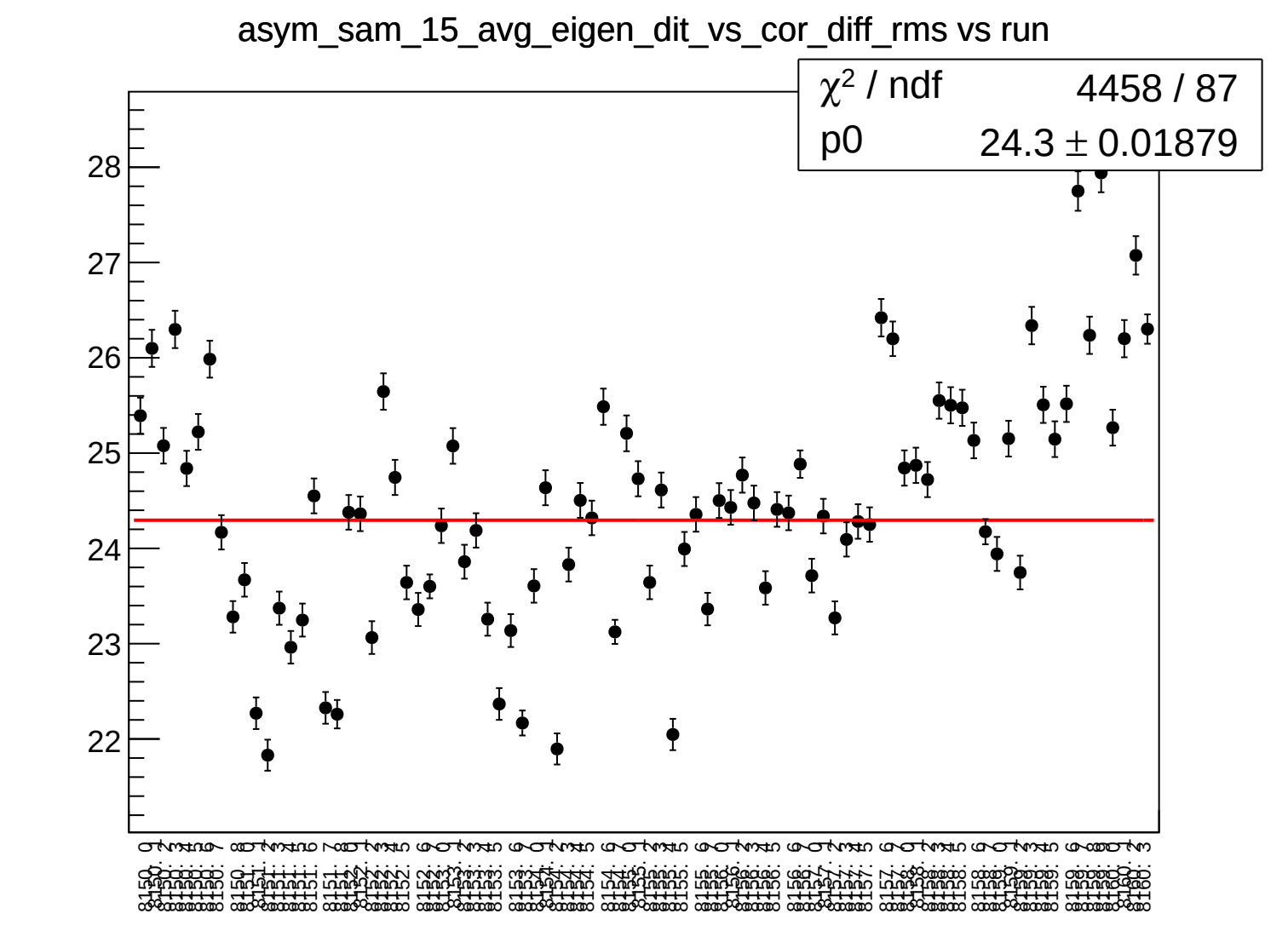

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.16 / 87
p0 −0.07989 ± 0.02657
pull
Entries 88
Mean 164.3
Std Dev 0
pull1D
Entries 88
Mean 0.006493
Std Dev 1.023

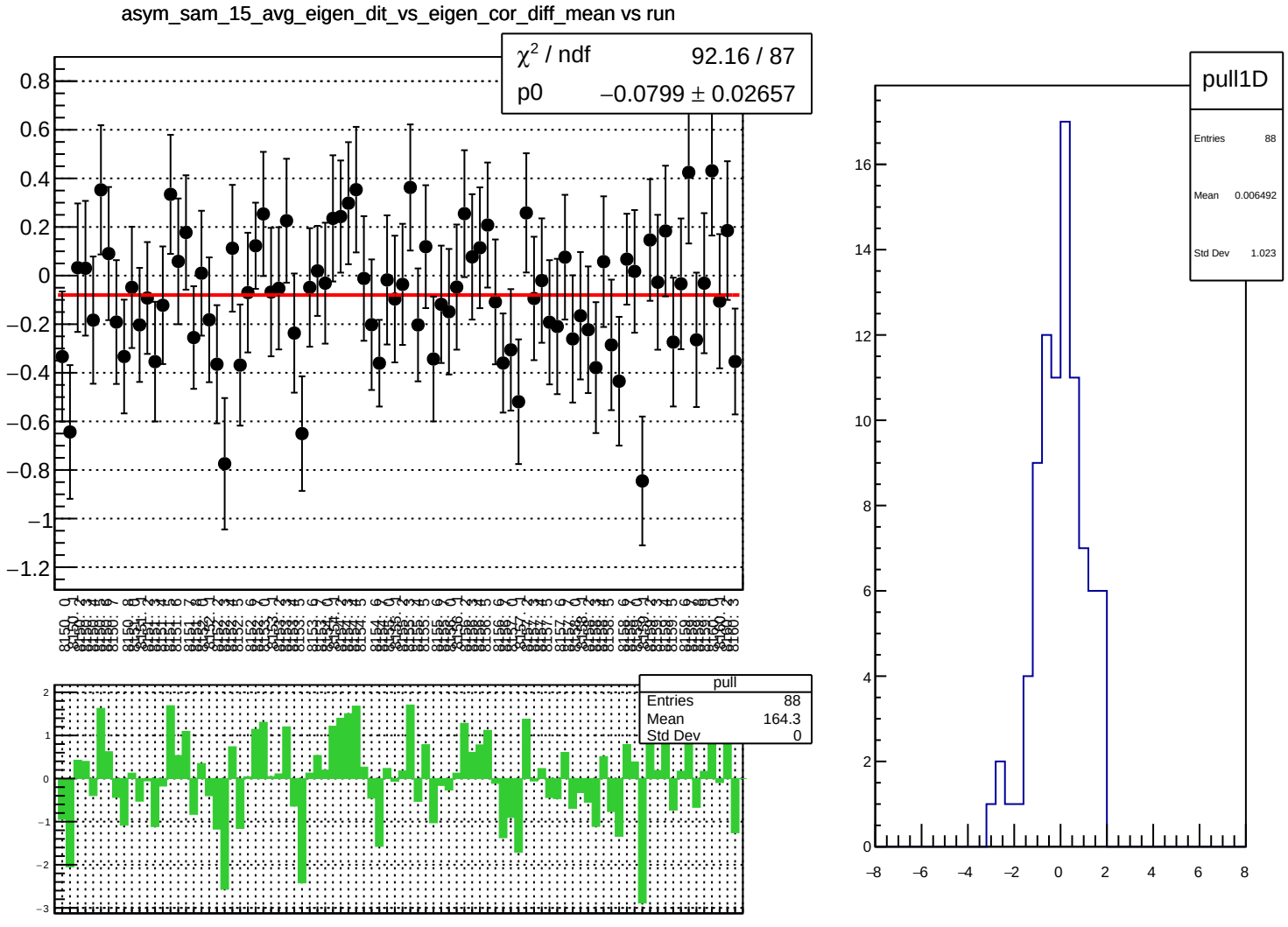

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4458 / 87
p0 24.3 ± 0.01879
28
27
26
25
24
23
22

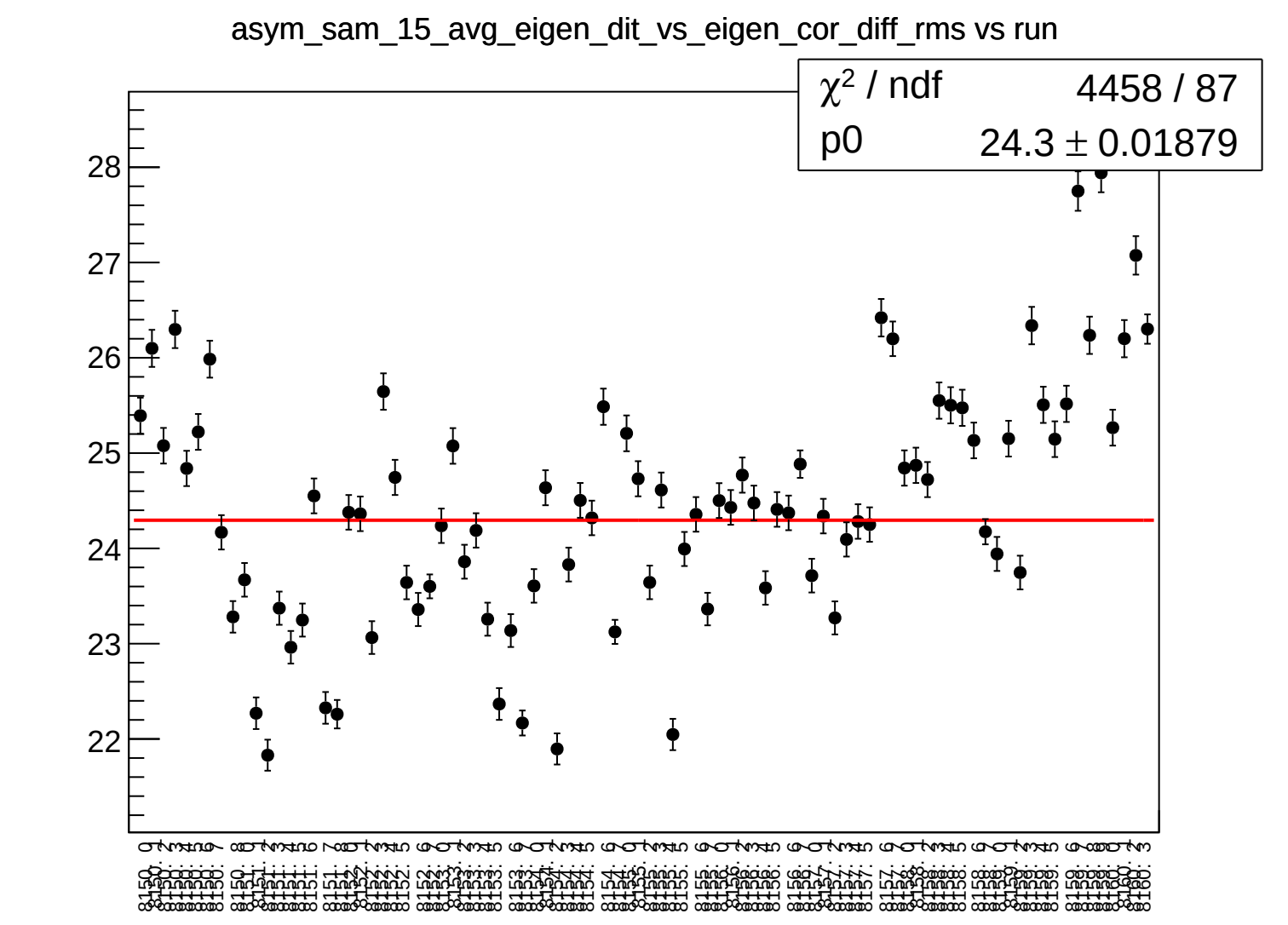

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.26 / 87
p0 −1.917e−06 ± 1.903e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 23.6
Std Dev 146.7
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00383
Std Dev 0.9958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

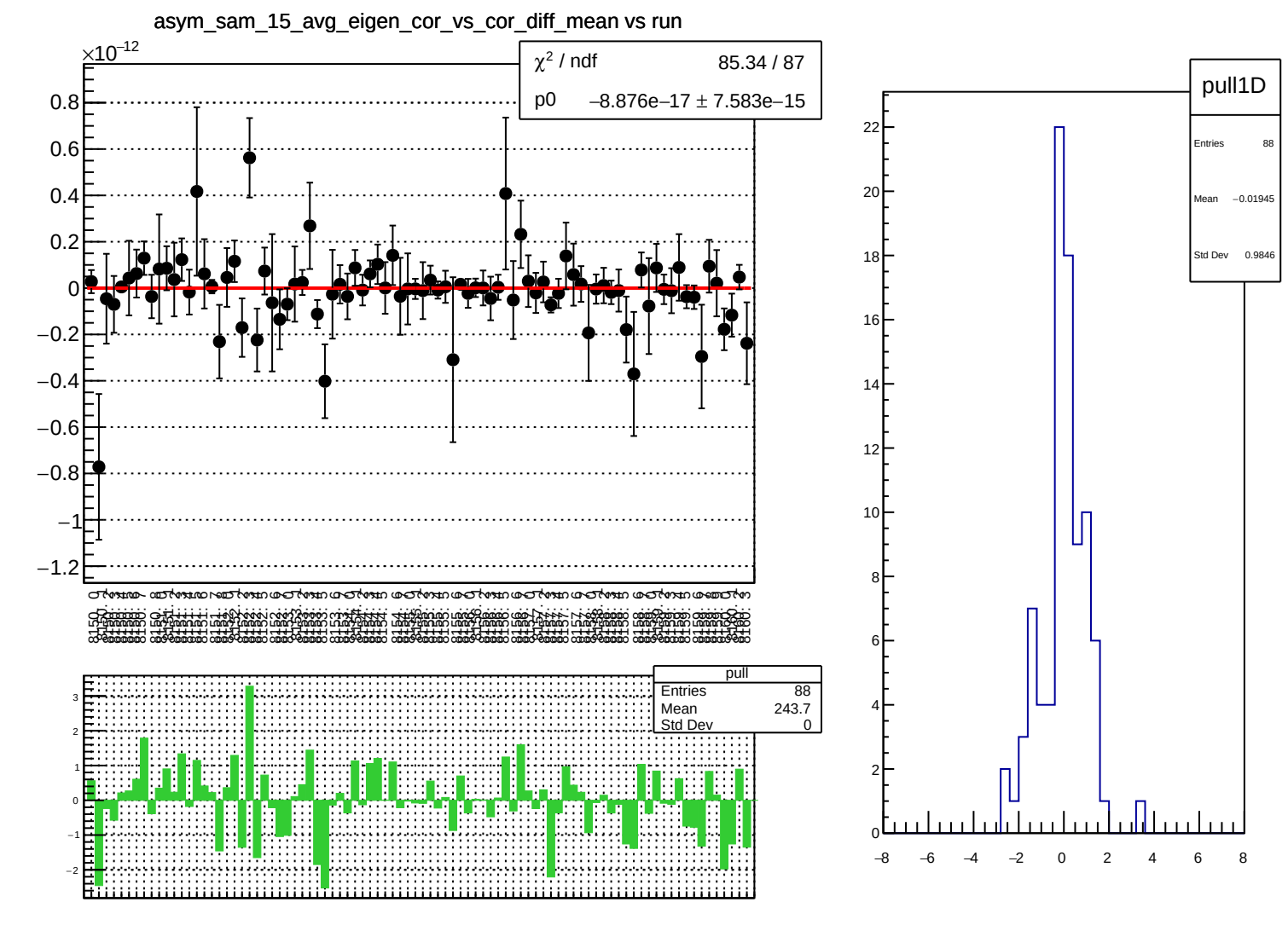

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3107 / 87
p0 0.00174 ± 1.345e−06
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016

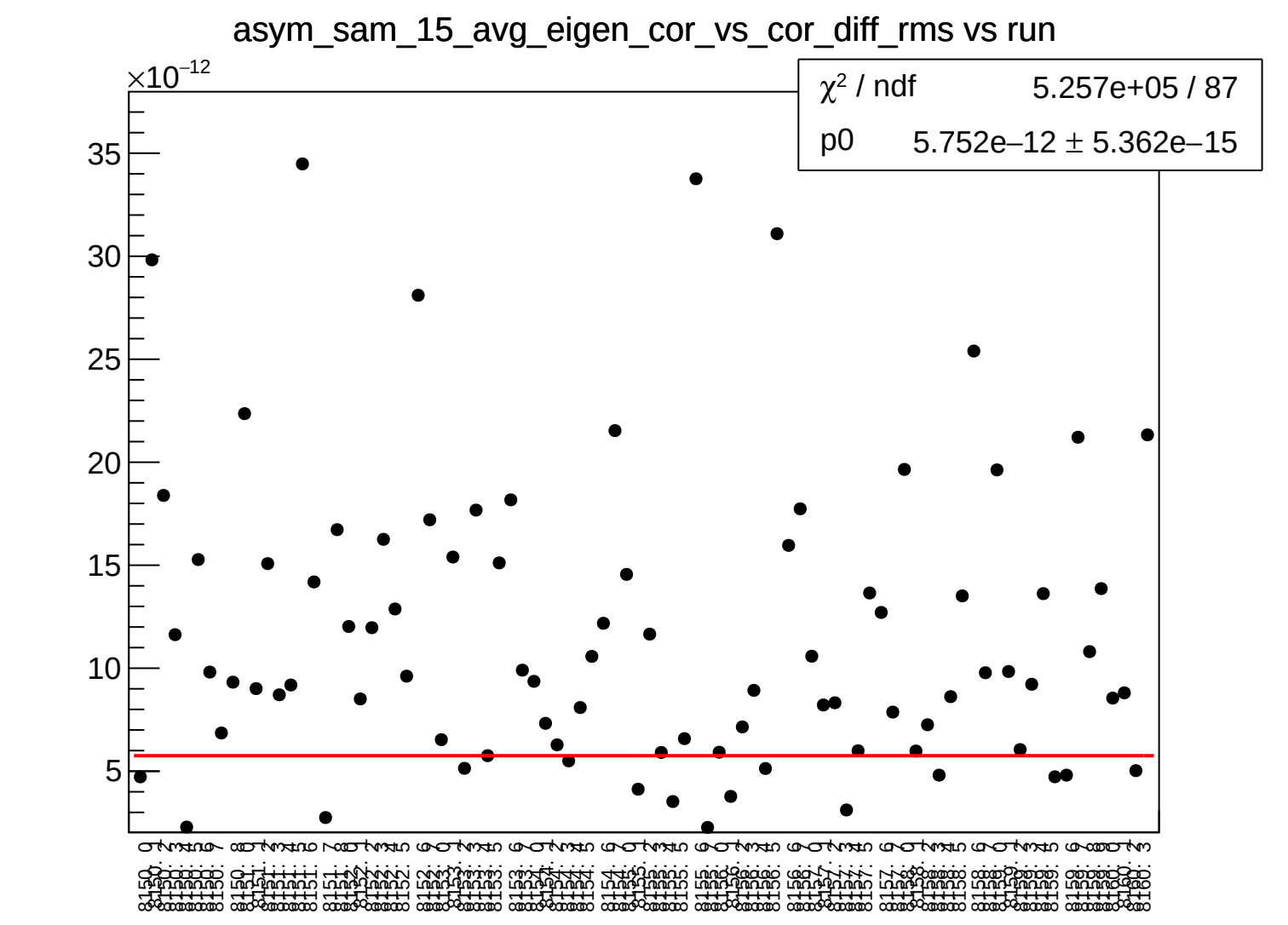

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.16 / 87
p0 −0.0799 ± 0.02657
pull
Entries 88
Mean 164.3
Std Dev 0
pull1D
Entries 88
Mean 0.006492
Std Dev 1.023

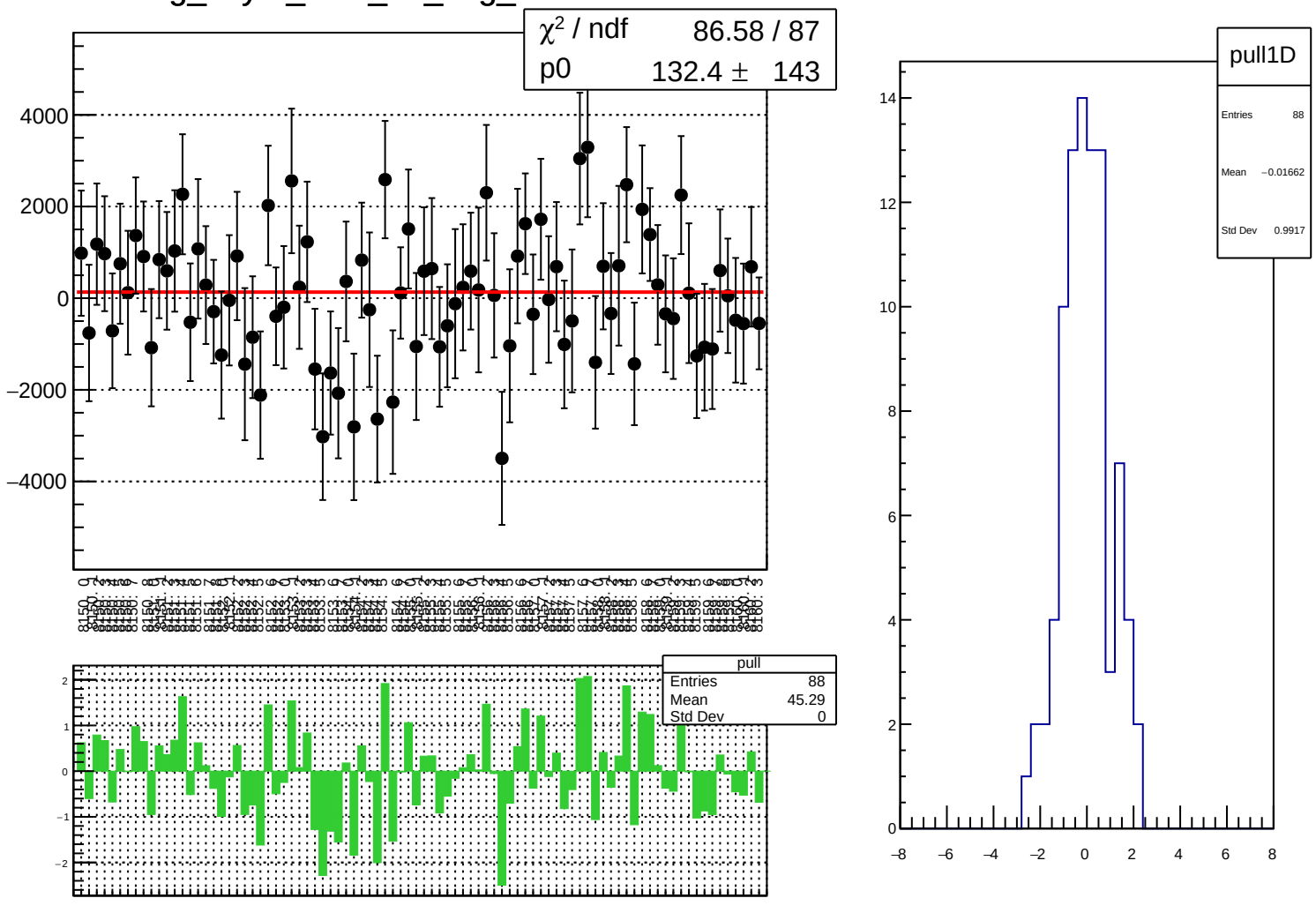

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4458 / 87
p0 24.3 ± 0.01879
28
27
26
25
24
23
22

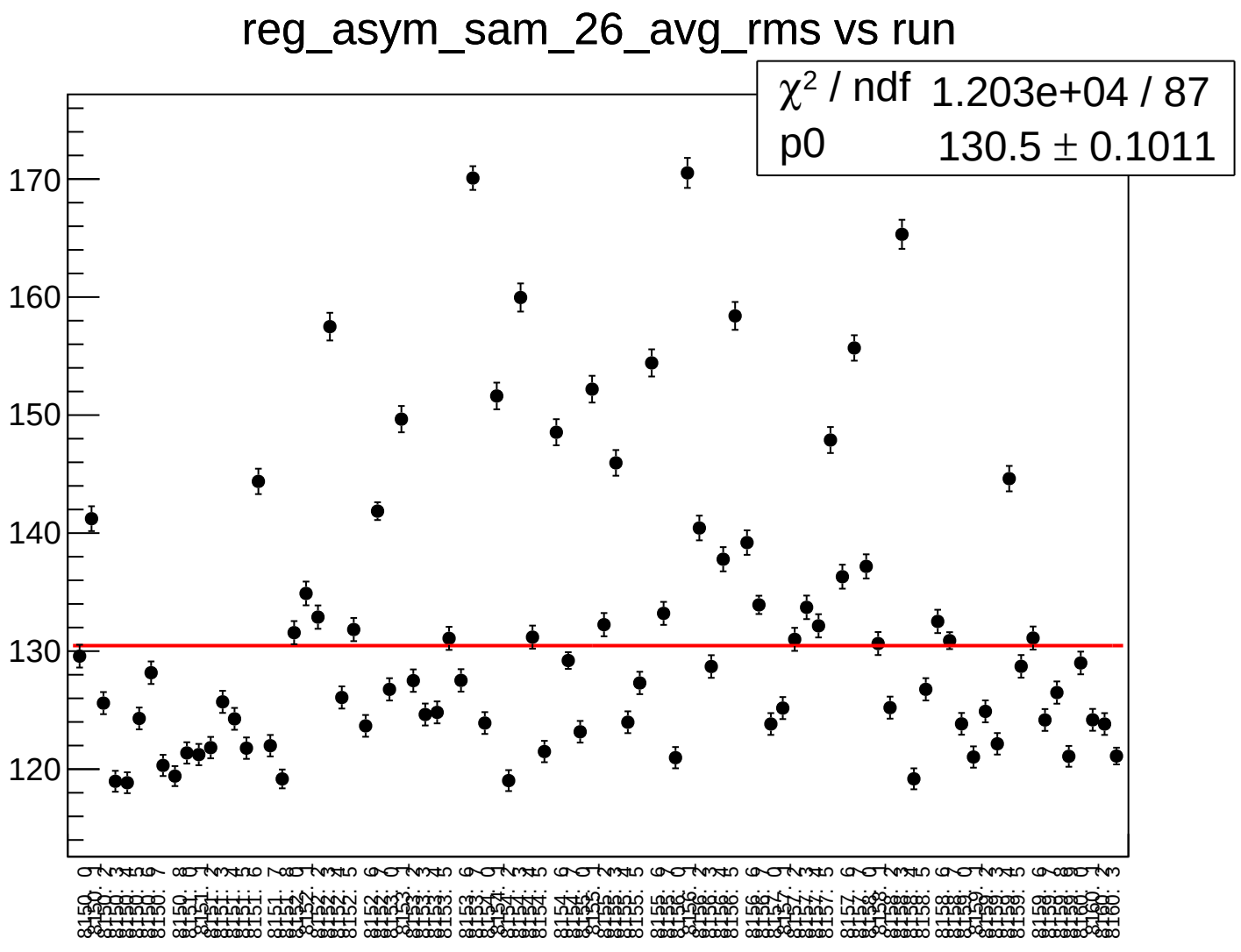

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.16 / 87
p0 −0.0799 ± 0.02657
pull
Entries 88
Mean 164.3
Std Dev 0
pull1D
Entries 88
Mean 0.006492
Std Dev 1.023

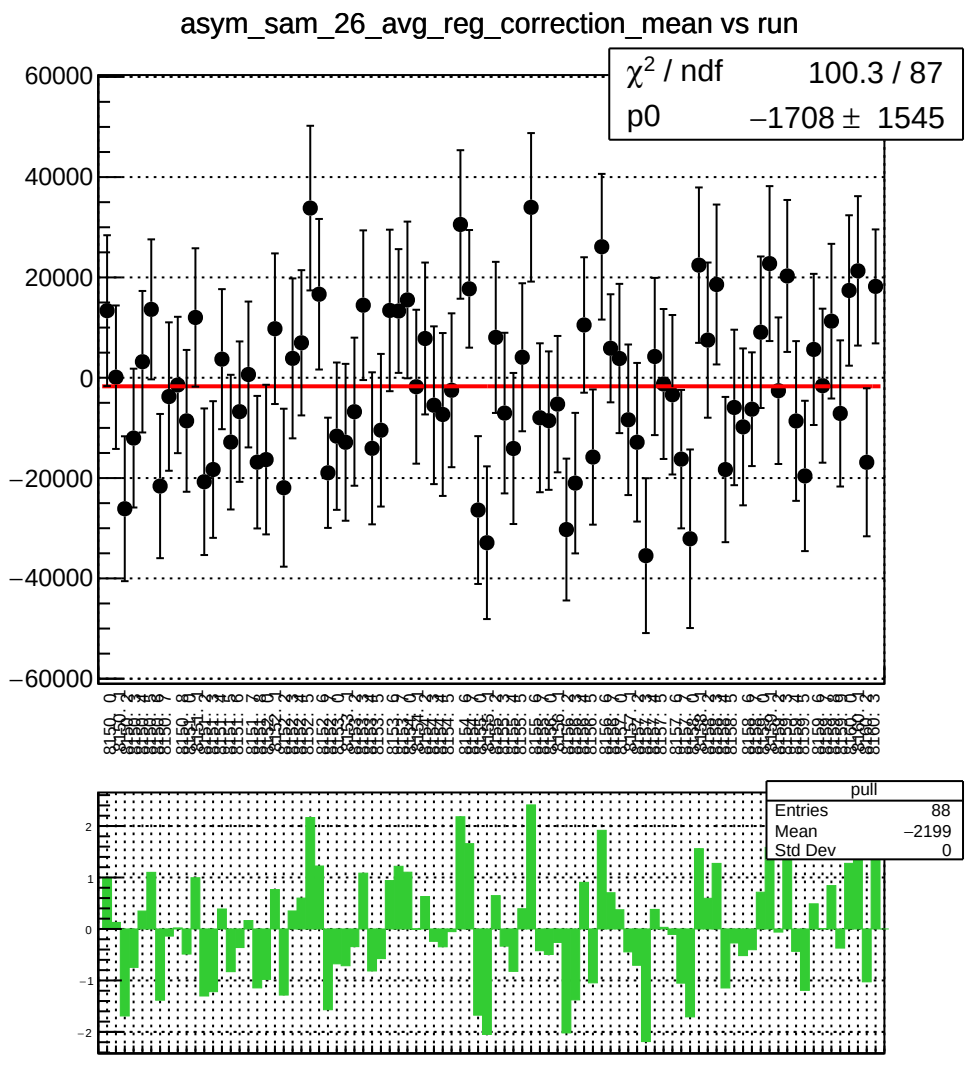

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4458 / 87
p0 24.3 ± 0.01879
28
27
26
25
24
23
22

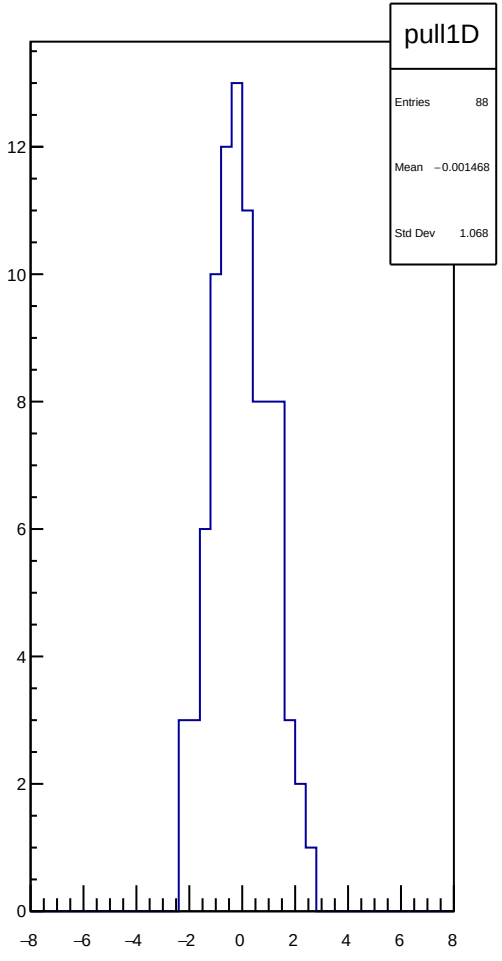

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.34 / 87
p0 −8.876e−17 ± 7.583e−15
pull
Entries 88
Mean 243.7
Std Dev 0
pull1D
Entries 88
Mean −0.01945
Std Dev 0.9846

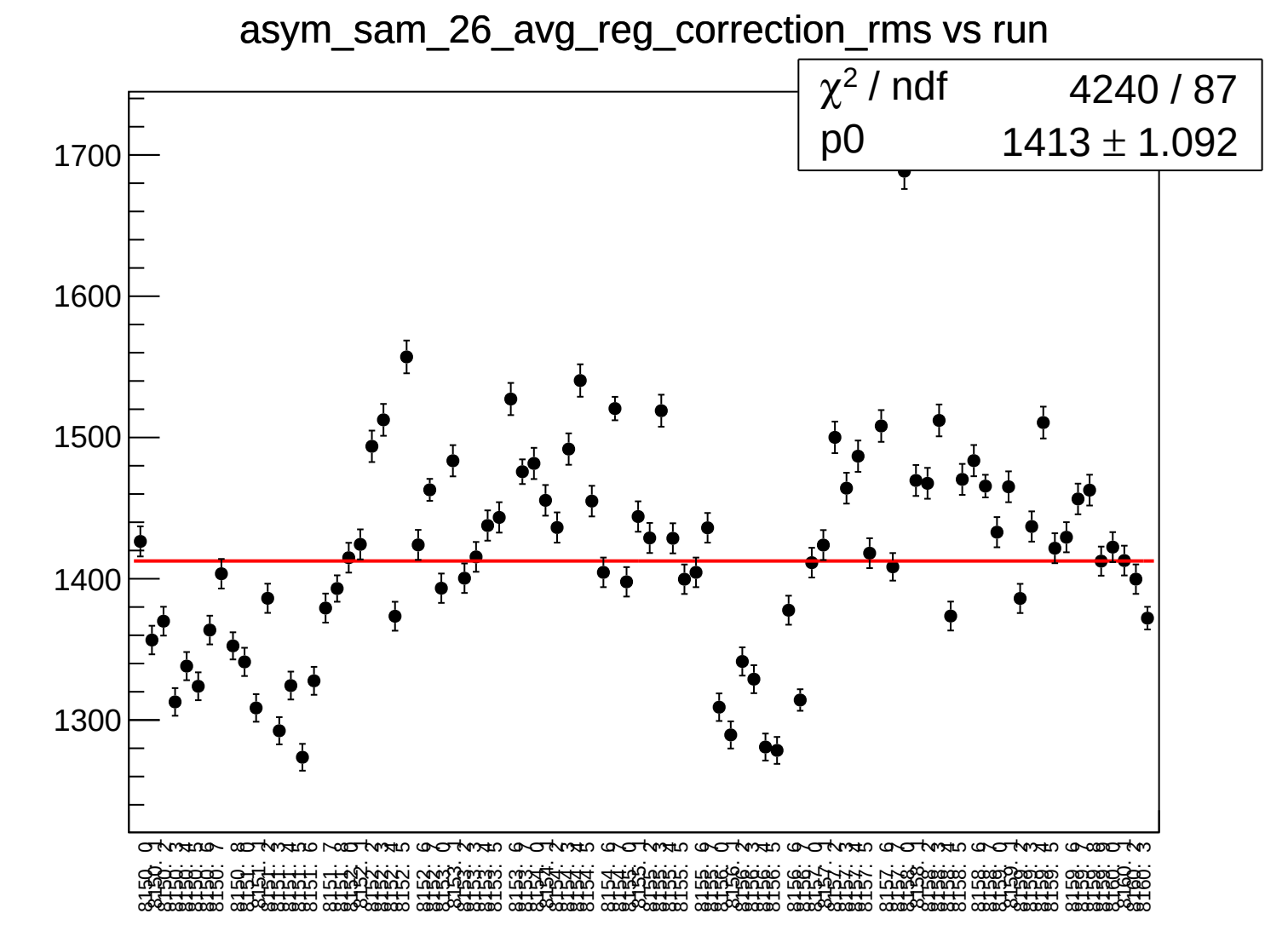

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.257e+05 / 87
p0 5.752e−12 ± 5.362e−15
35
30
25
20
15
10
5

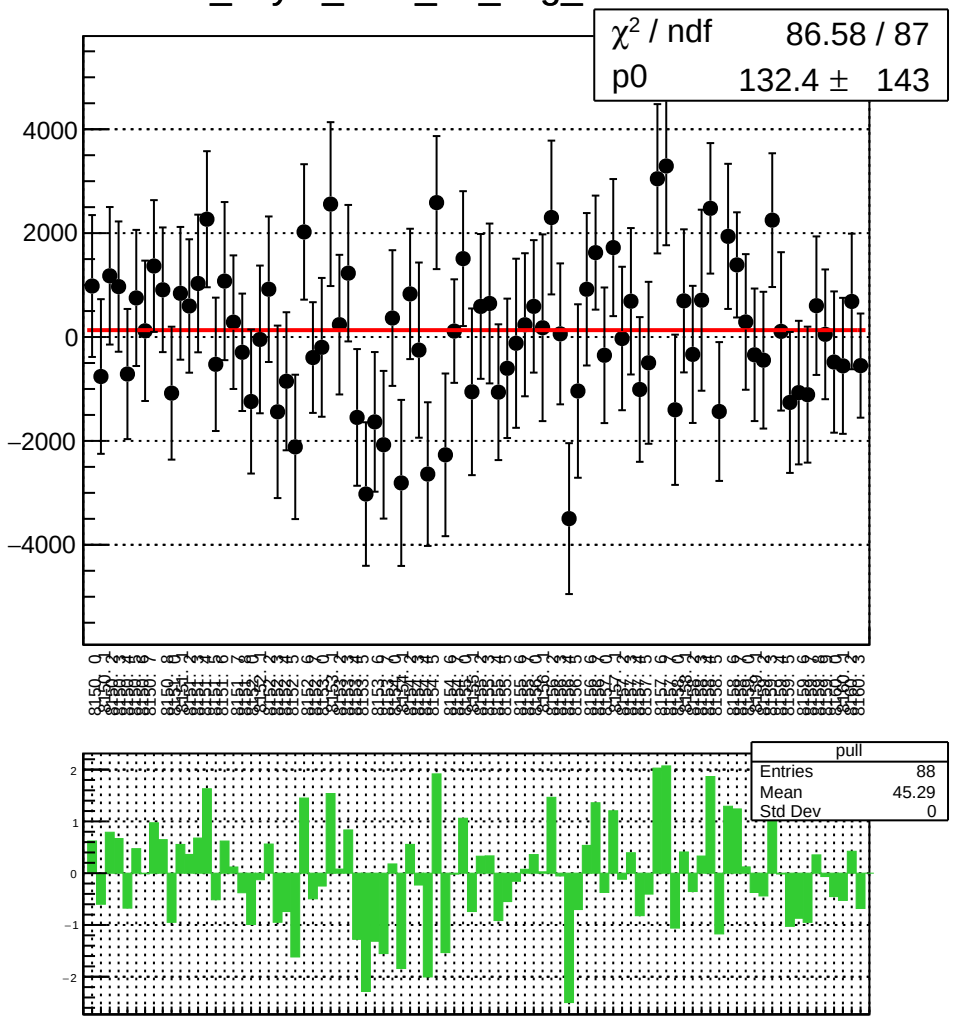

reg_asym_sam_26_avg_mean vs run
χ² / ndf 86.58 / 87
p0 132.4 ± 143
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 45.29
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01662
Std Dev 0.9917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

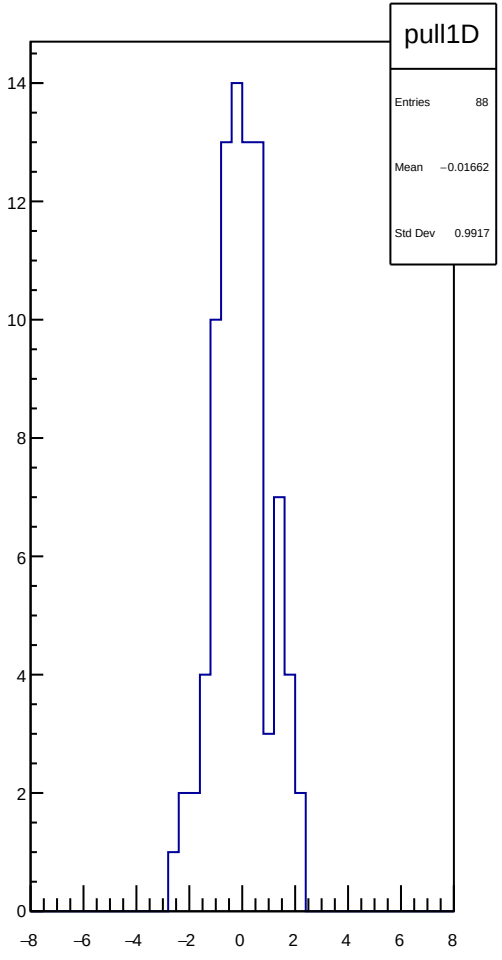

reg_asym_sam_26_avg_rms vs run
χ² / ndf 1.203e+04 / 87
p0 130.5 ± 0.1011
170
160
150
140
130
120

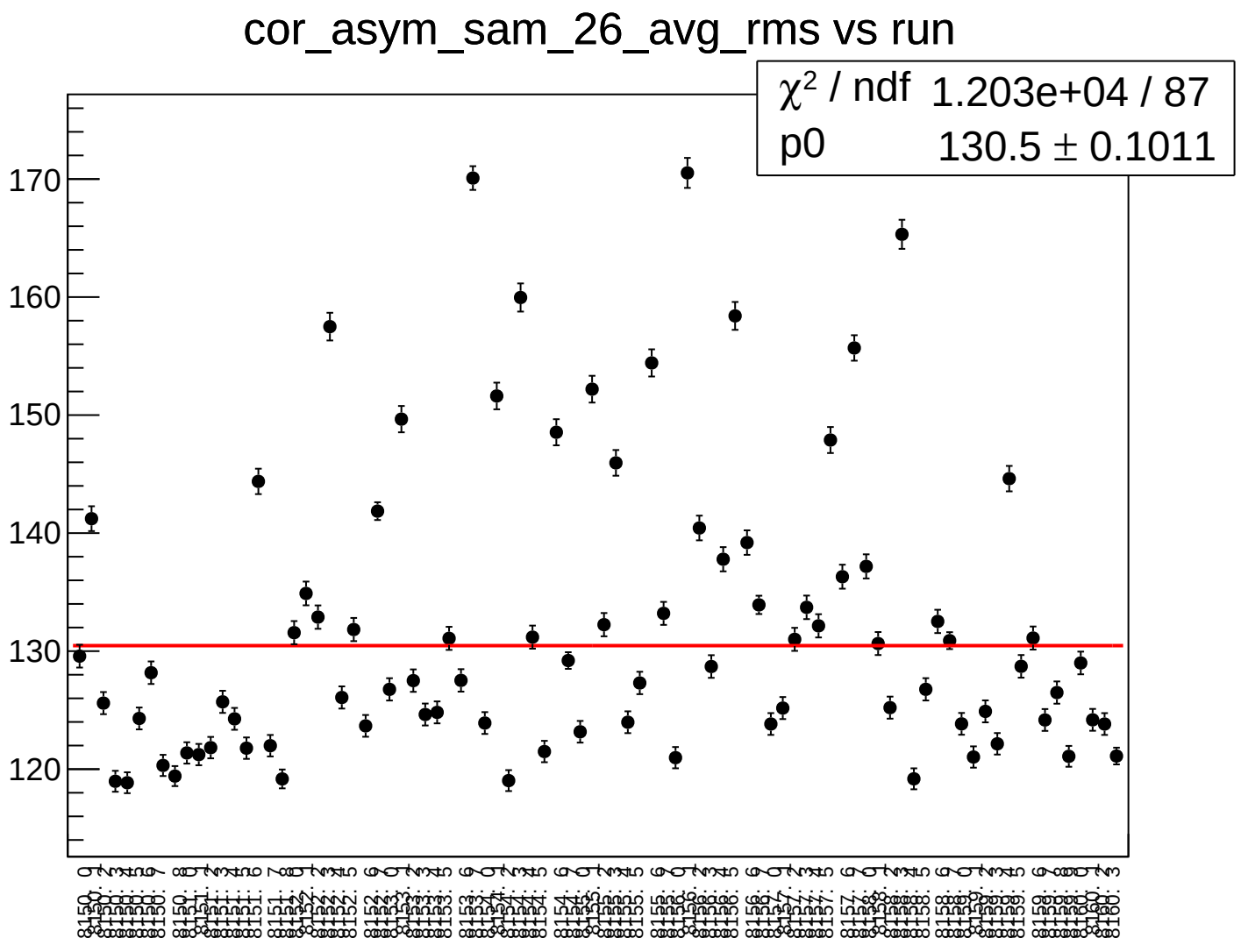

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 100.3 / 87
p0 −1708 ± 1545
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −2199
Std Dev 0
2
1
0
−1
−2

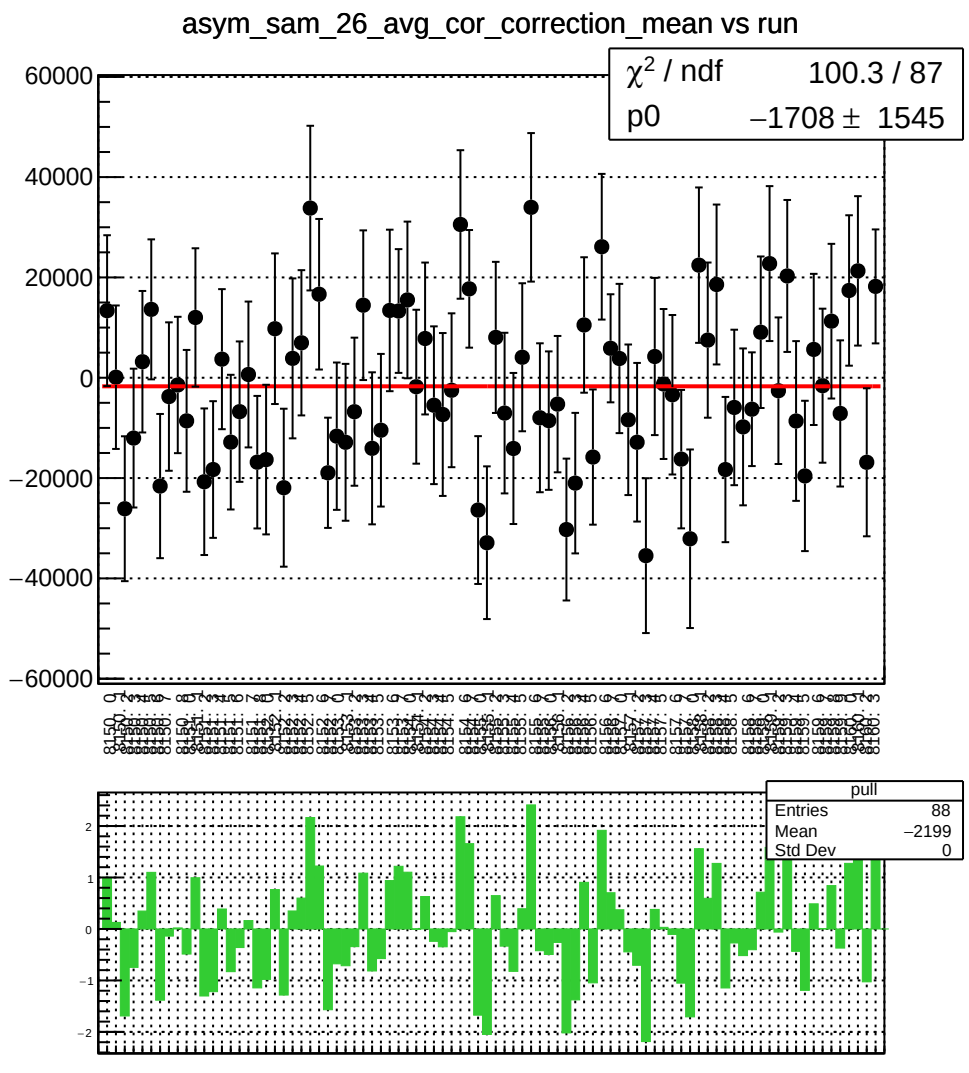

pull1D
Entries 88
Mean −0.001468
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

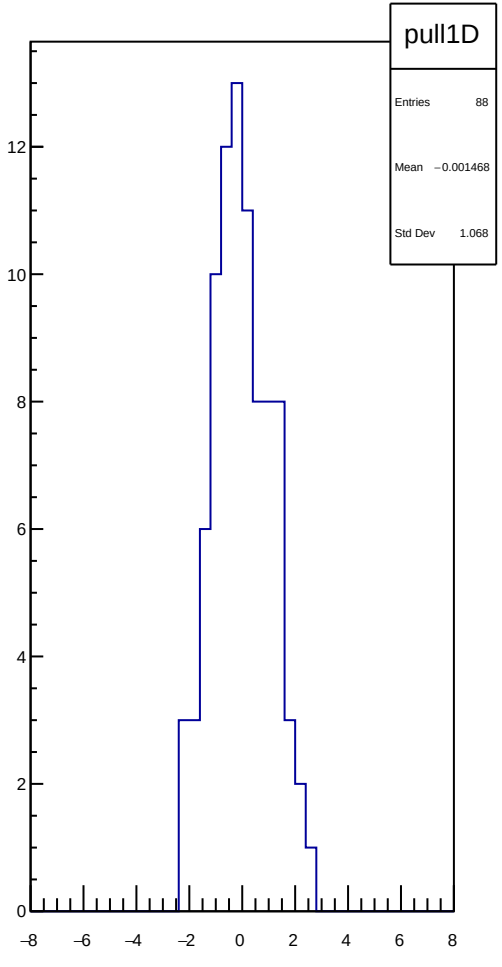

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 4240 / 87
p0 1413 ± 1.092
1700
1600
1500
1400
1300

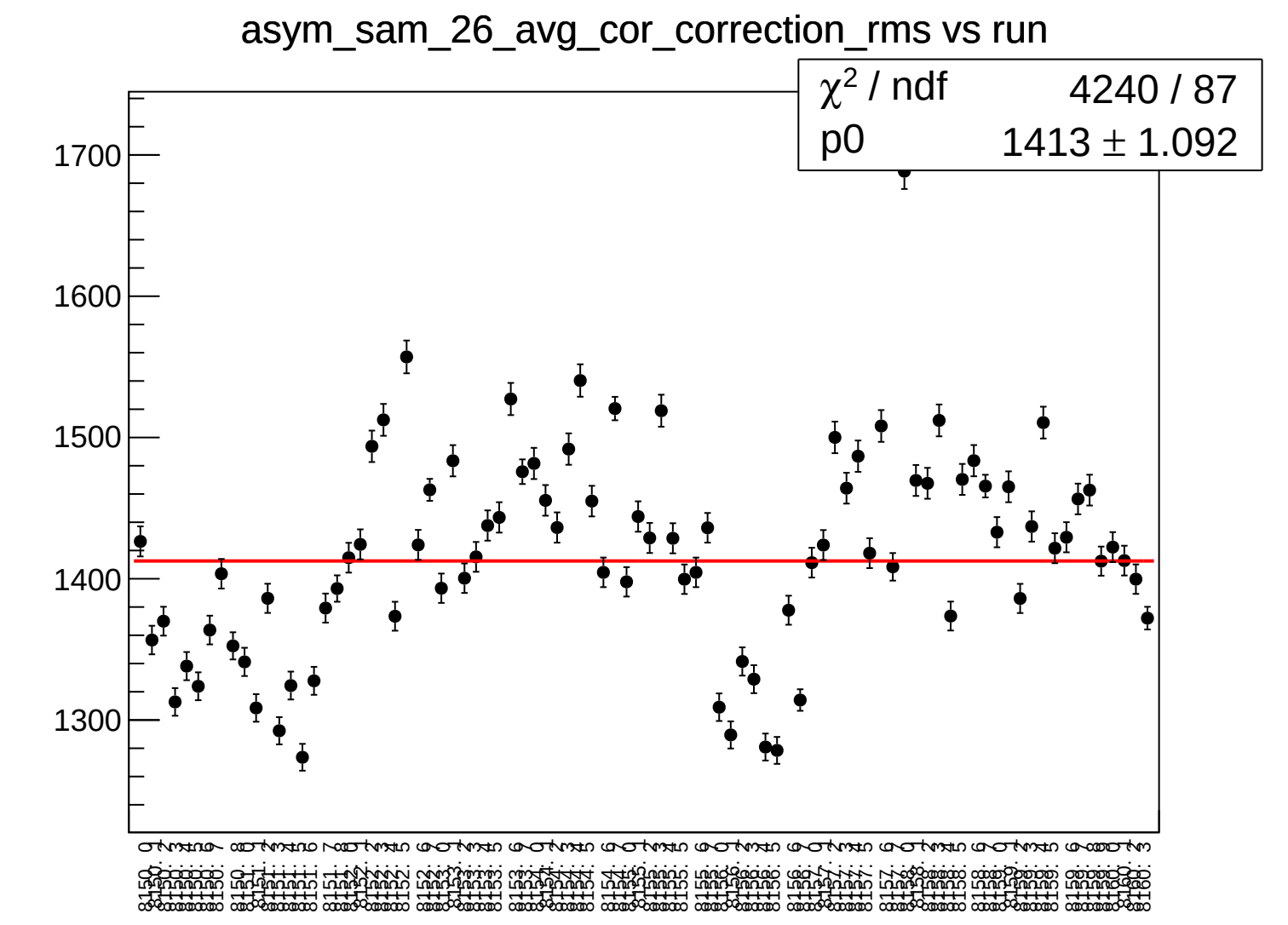

cor_asym_sam_26_avg_mean vs run
χ² / ndf 86.58 / 87
p0 132.4 ± 143
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 45.29
Std Dev 0
2
1
0
−1
−2

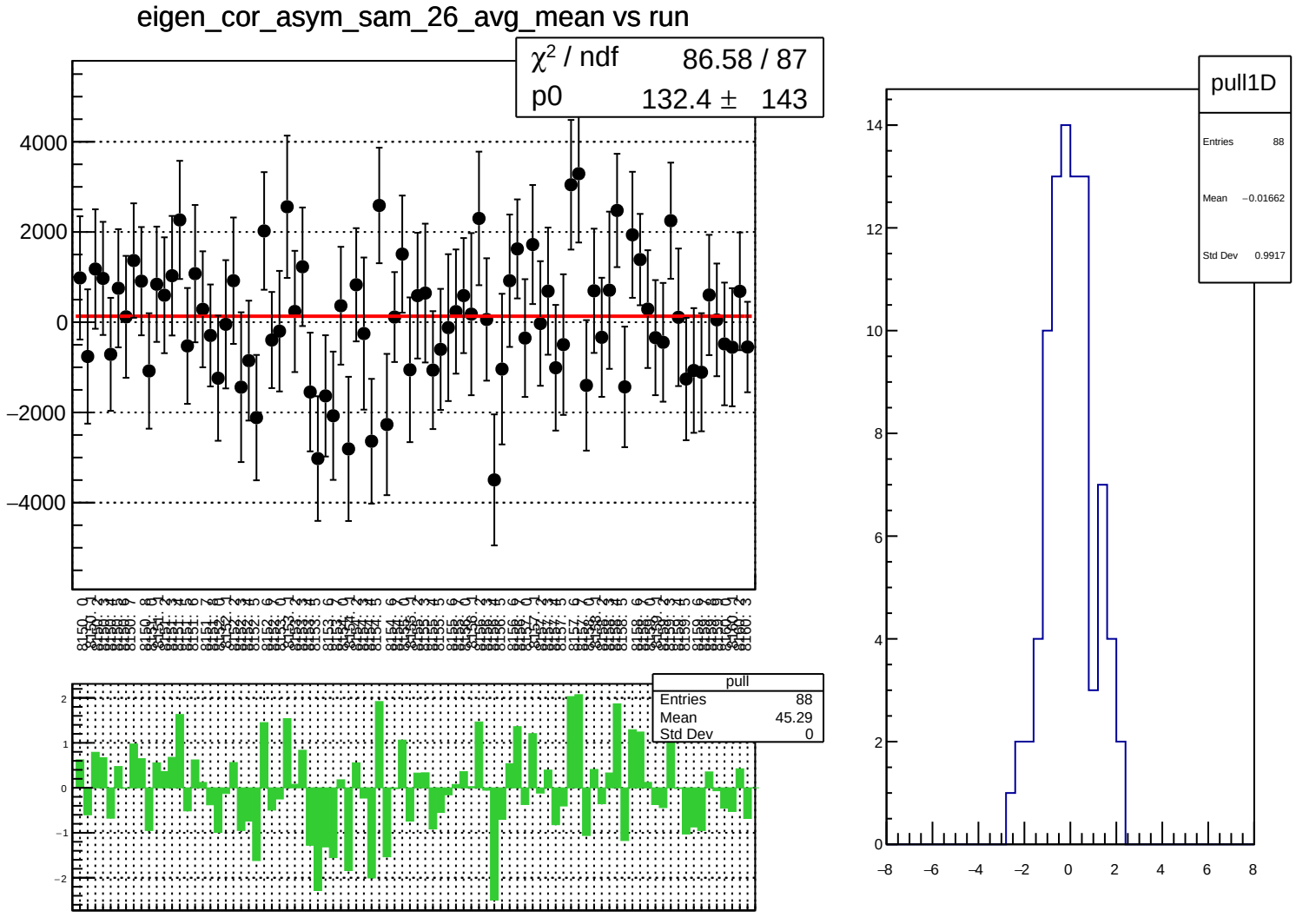

pull1D
Entries 88
Mean −0.01662
Std Dev 0.9917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

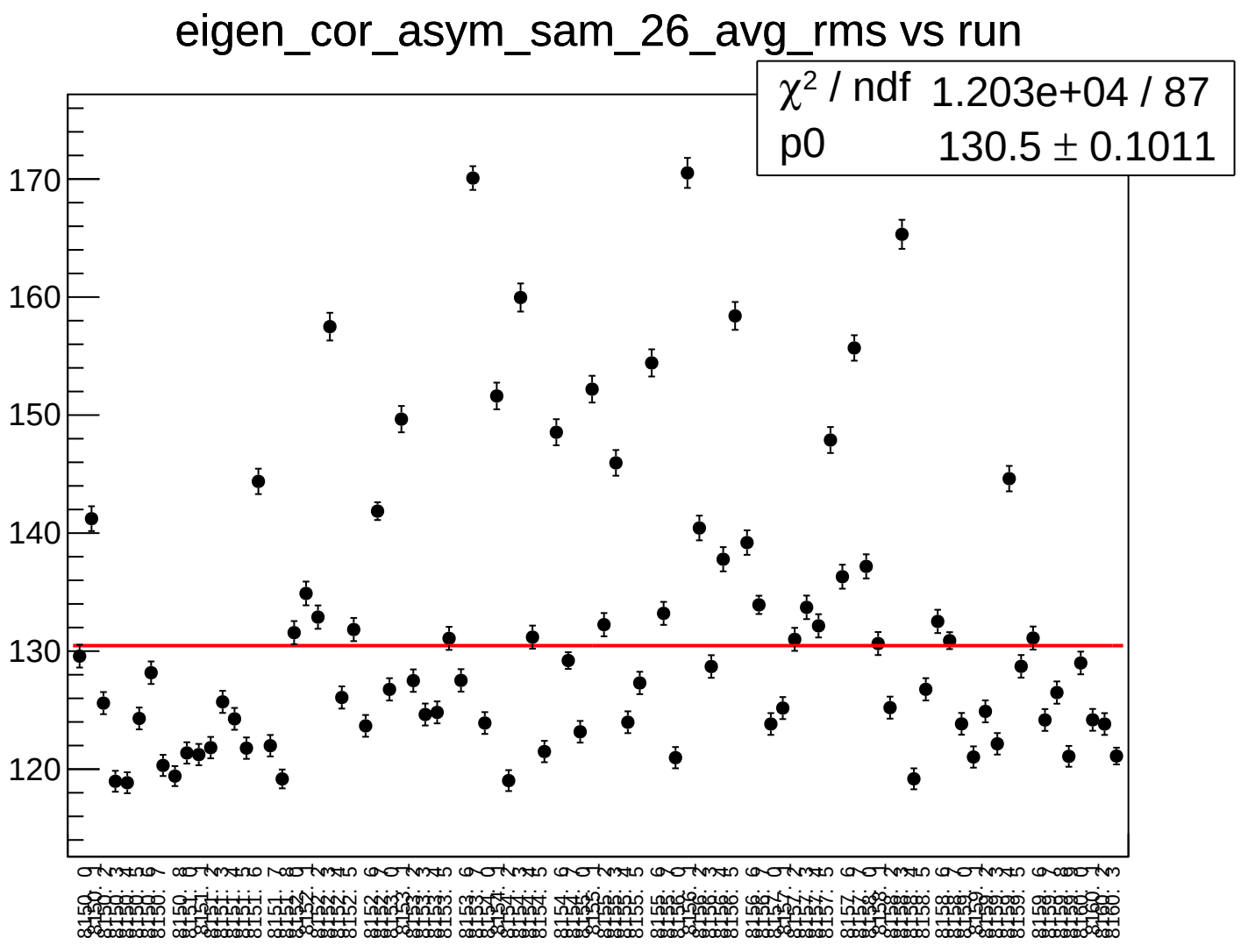

cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.203e+04 / 87
p0 130.5 ± 0.1011
170
160
150
140
130
120

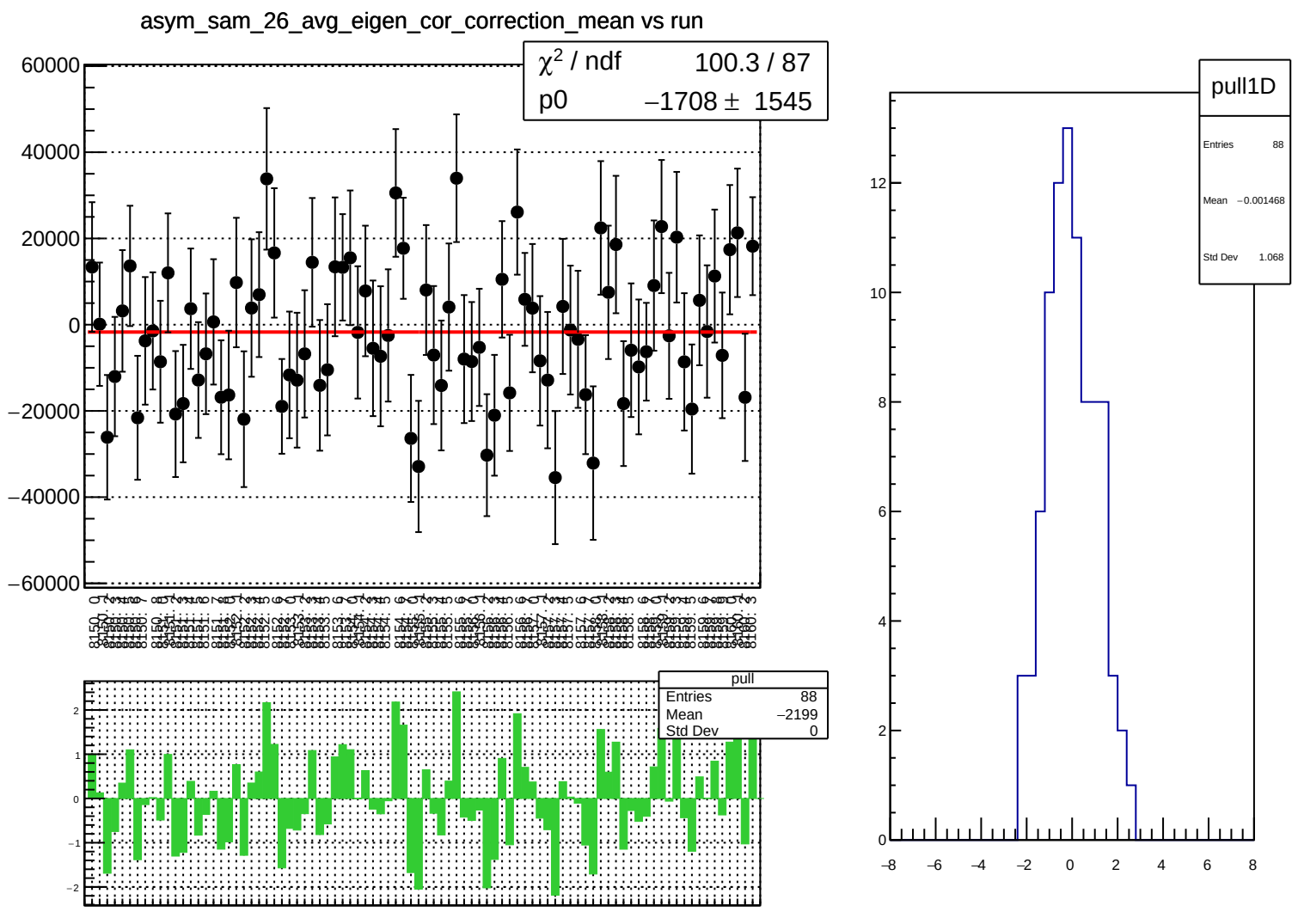

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 100.3 / 87
p0 −1708 ± 1545
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −2199
Std Dev 0
2
1
0
−1
−2

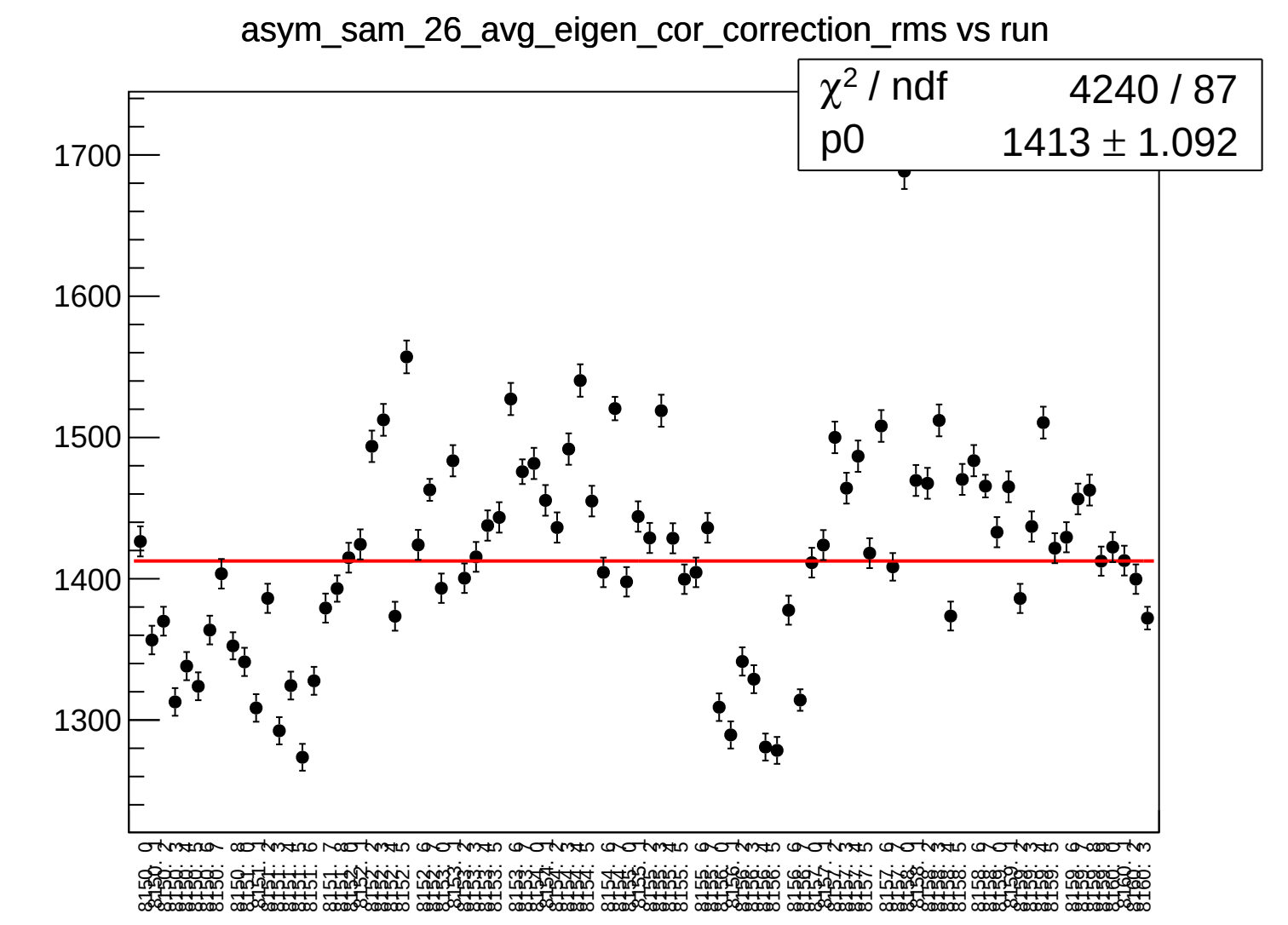

pull1D
Entries 88
Mean −0.001468
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

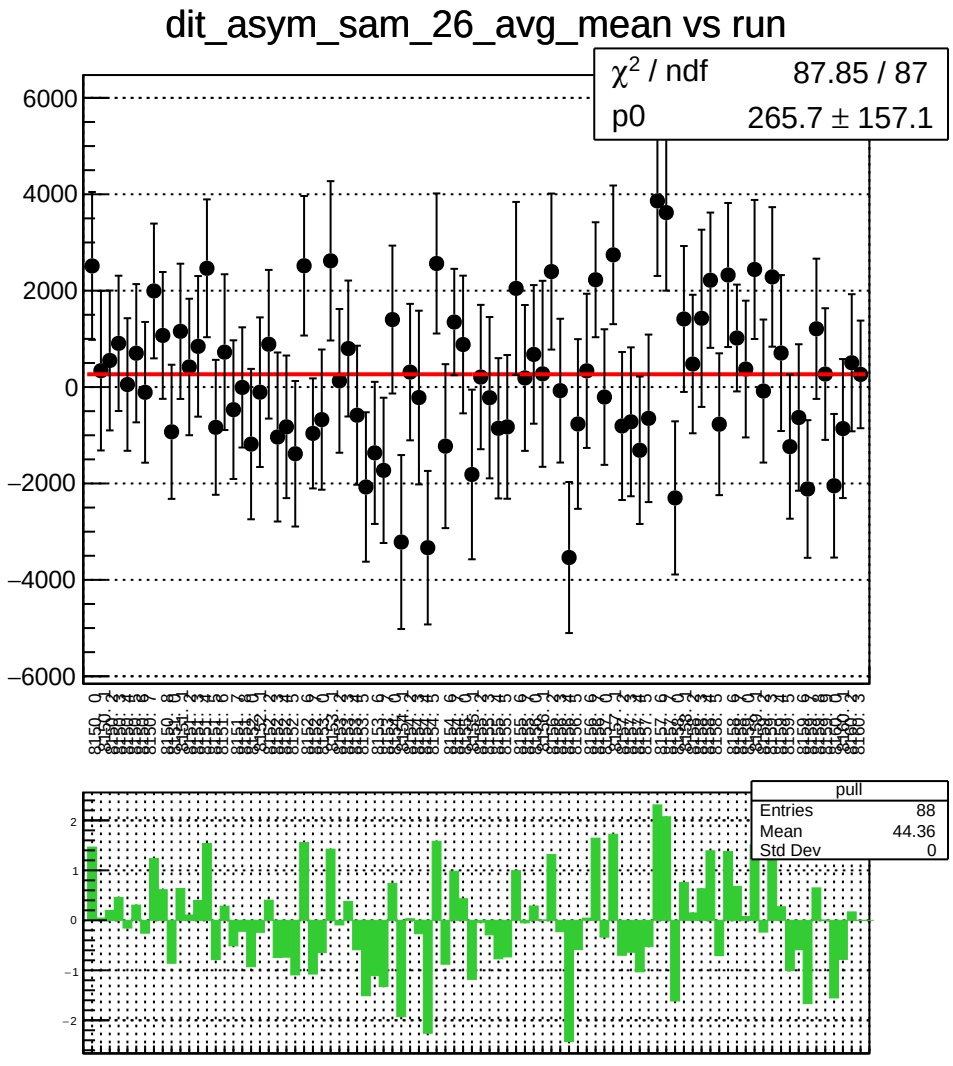

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 4240 / 87
p0 1413 ± 1.092
1700
1600
1500
1400
1300

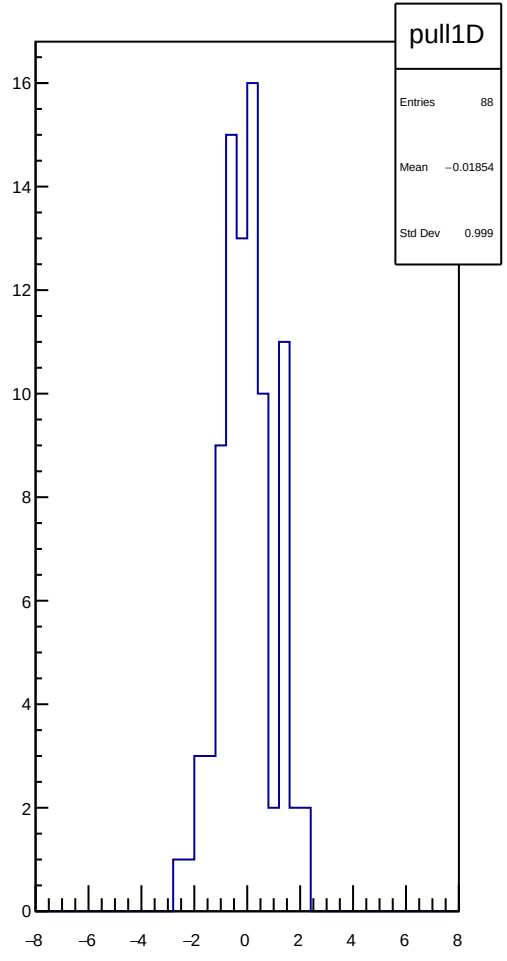

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 86.58 / 87
p0 132.4 ± 143
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 45.29
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01662
Std Dev 0.9917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

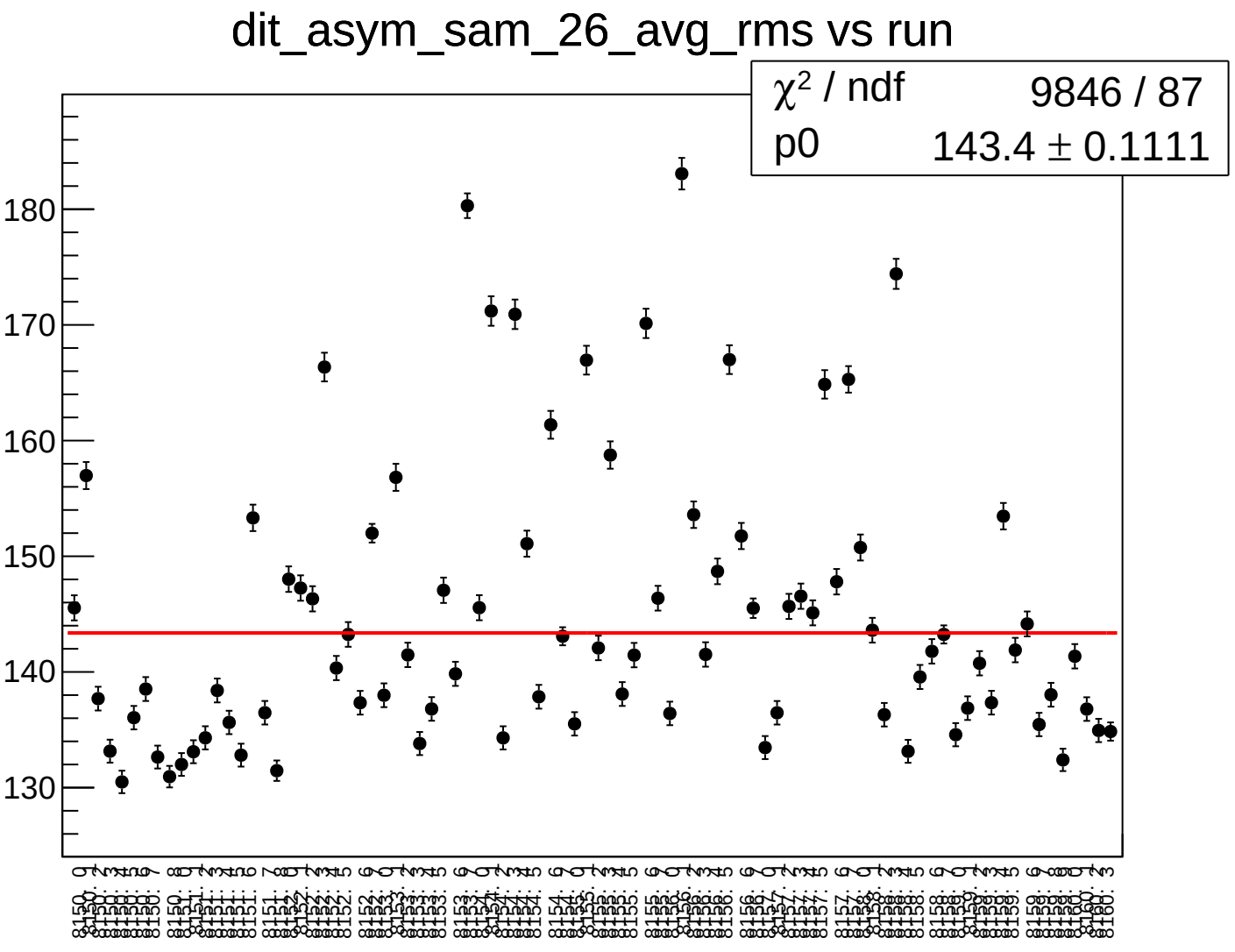

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.203e+04 / 87
p0 130.5 ± 0.1011
170
160
150
140
130
120

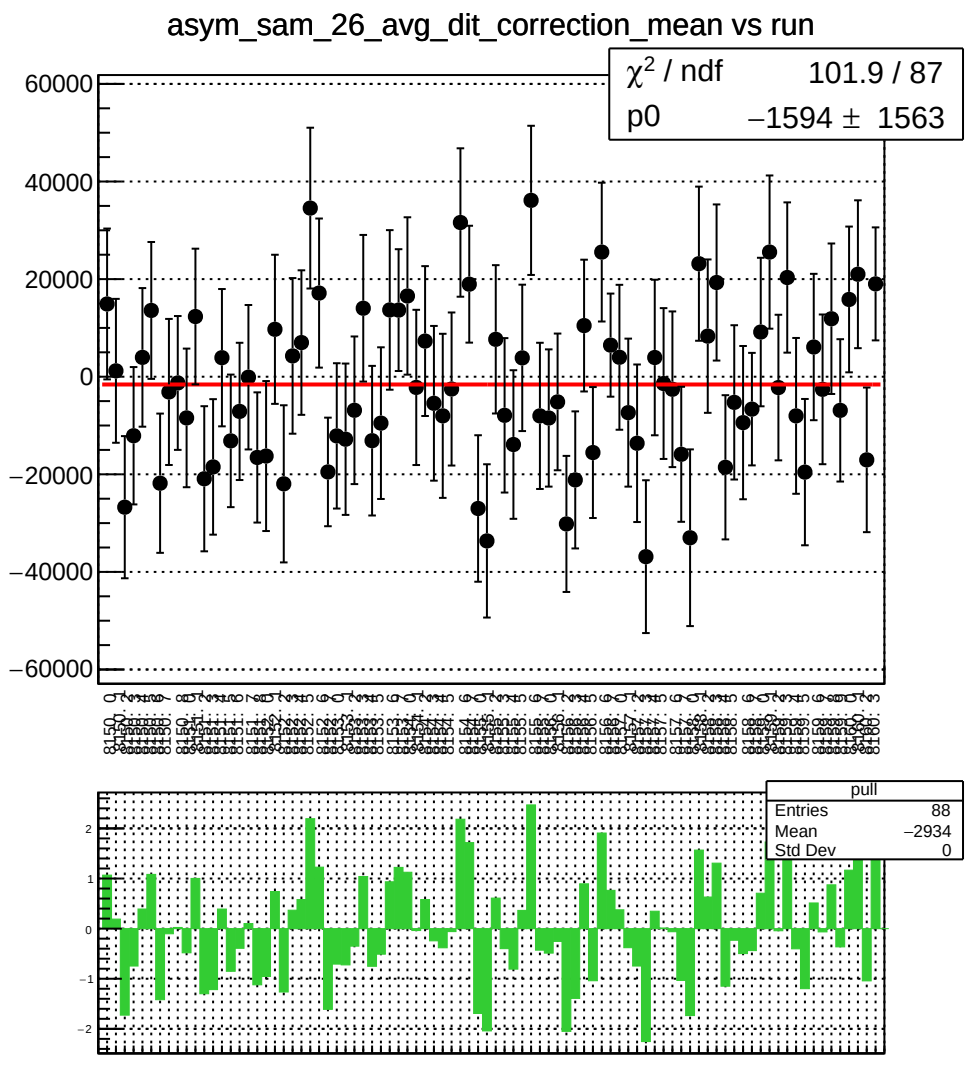

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.3 / 87
p0 −1708 ± 1545
pull
Entries 88
Mean −2199
Std Dev 0
pull1D
Entries 88
Mean −0.001468
Std Dev 1.068

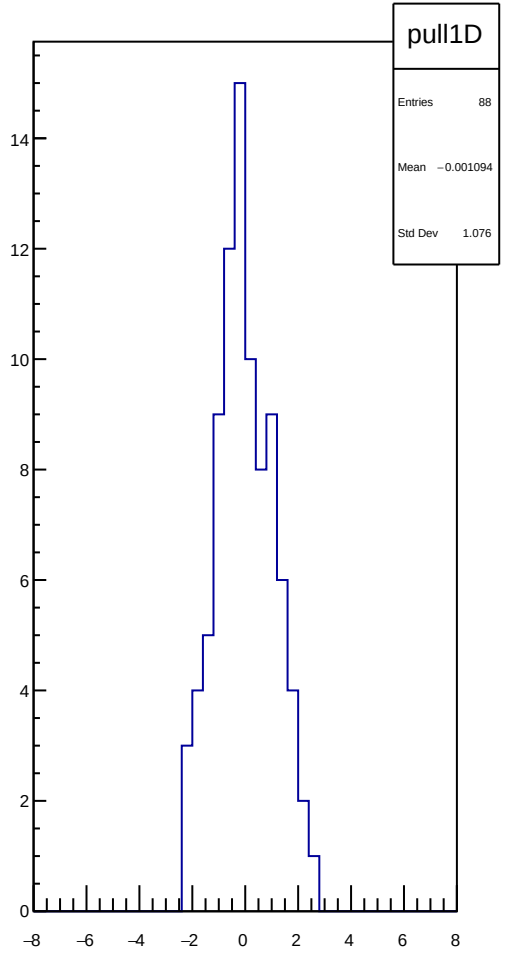

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 4240 / 87
p0 1413 ± 1.092
1700
1600
1500
1400
1300

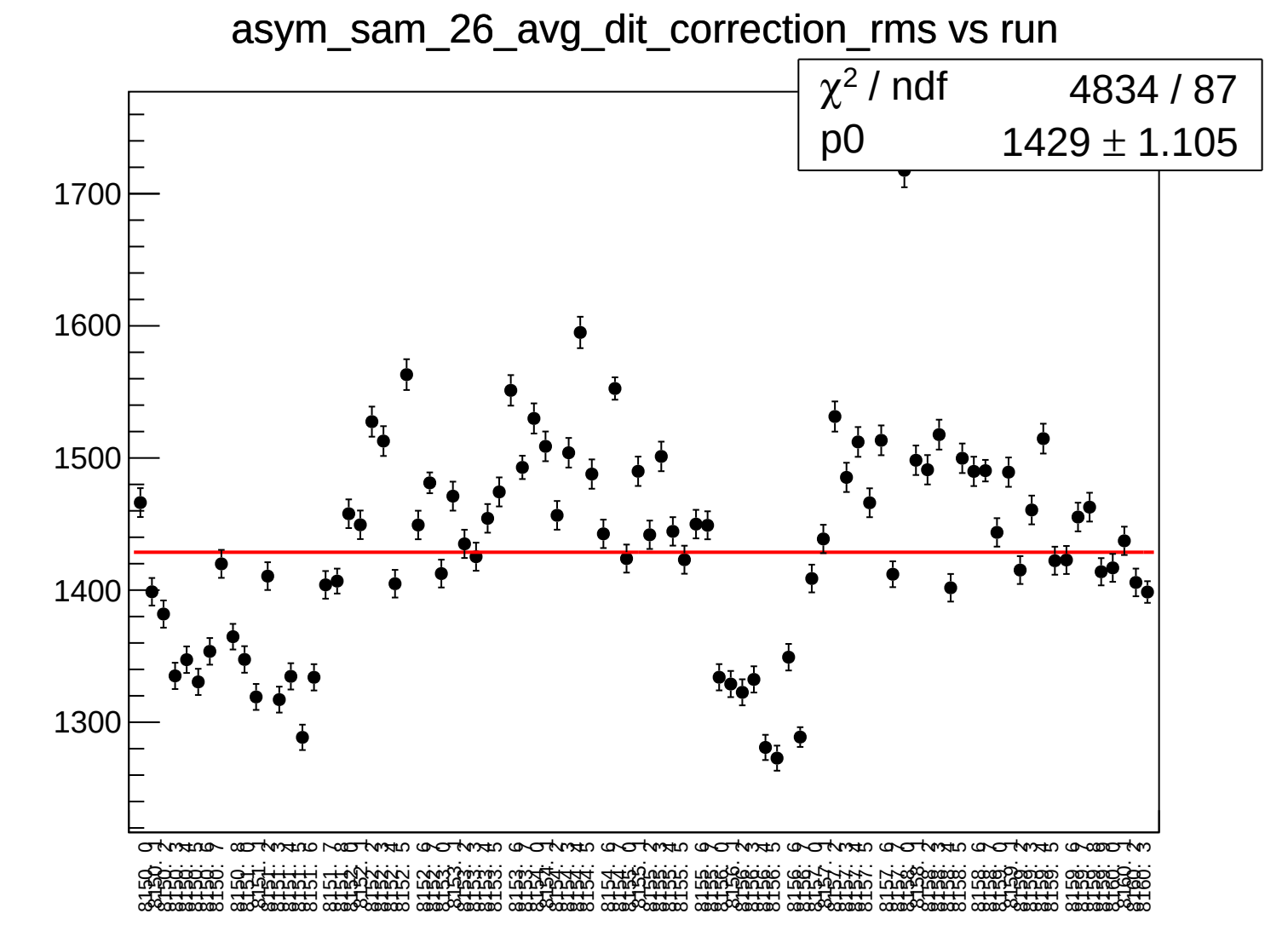

dit_asym_sam_26_avg_mean vs run
χ² / ndf 87.85 / 87
p0 265.7 ± 157.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 44.36
Std Dev 0
2
1
0
−1
−2

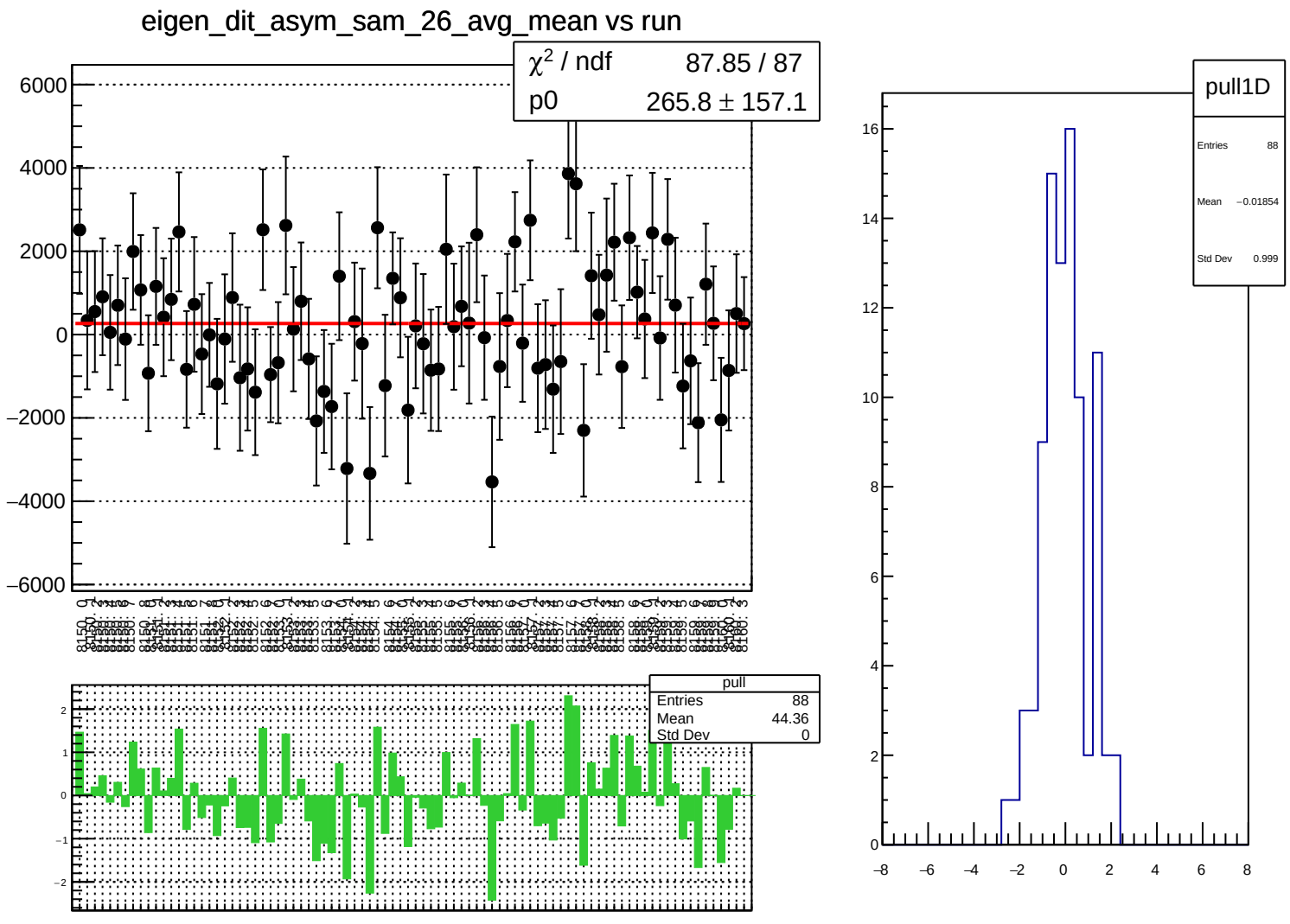

pull1D
Entries 88
Mean −0.01854
Std Dev 0.999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

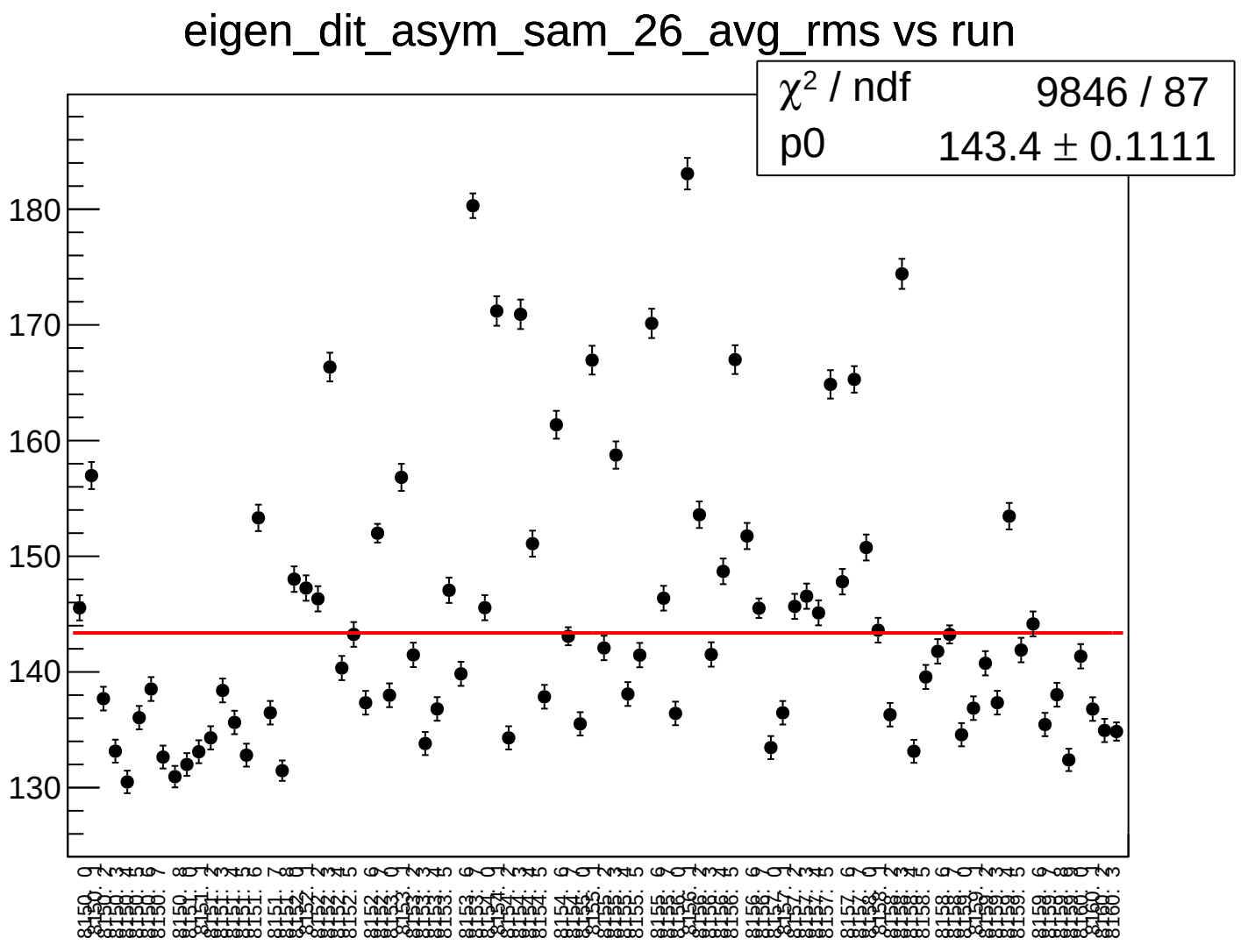

dit_asym_sam_26_avg_rms vs run
χ² / ndf 9846 / 87
p0 143.4 ± 0.1111
180
170
160
150
140
130

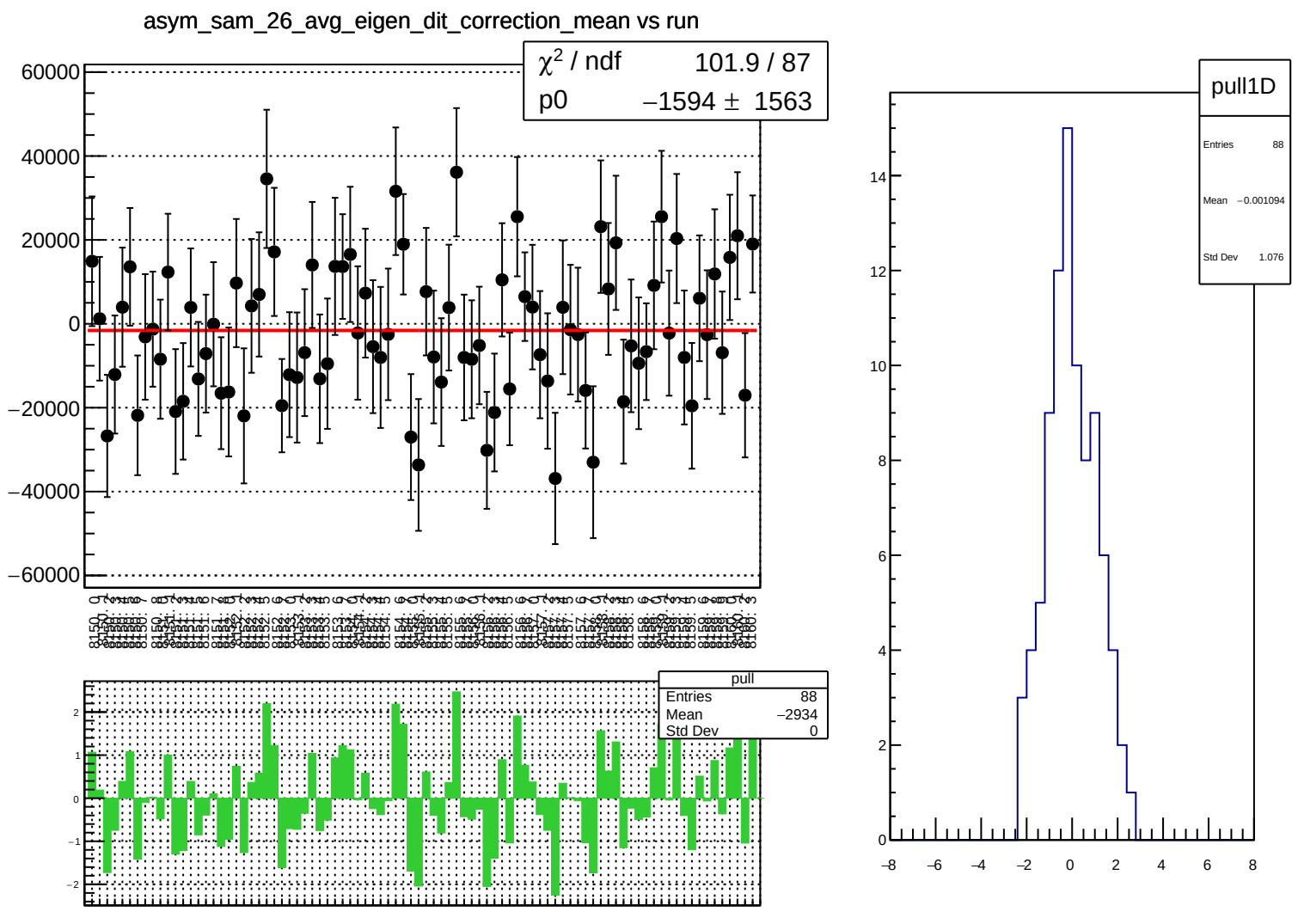

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 101.9 / 87
p0 −1594 ± 1563
pull
Entries 88
Mean −2934
Std Dev 0

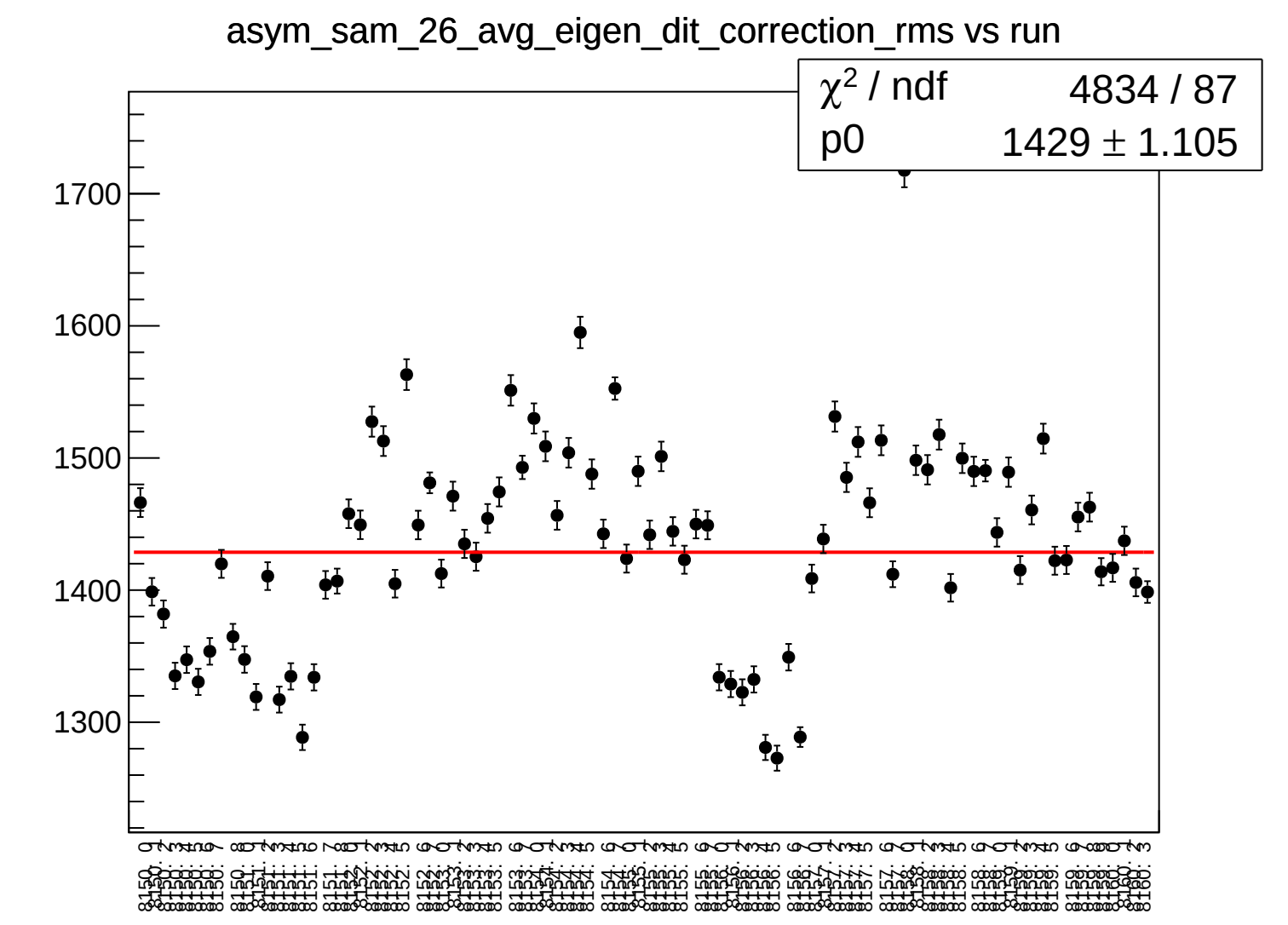

pull1D
Entries 88
Mean −0.001094
Std Dev 1.076

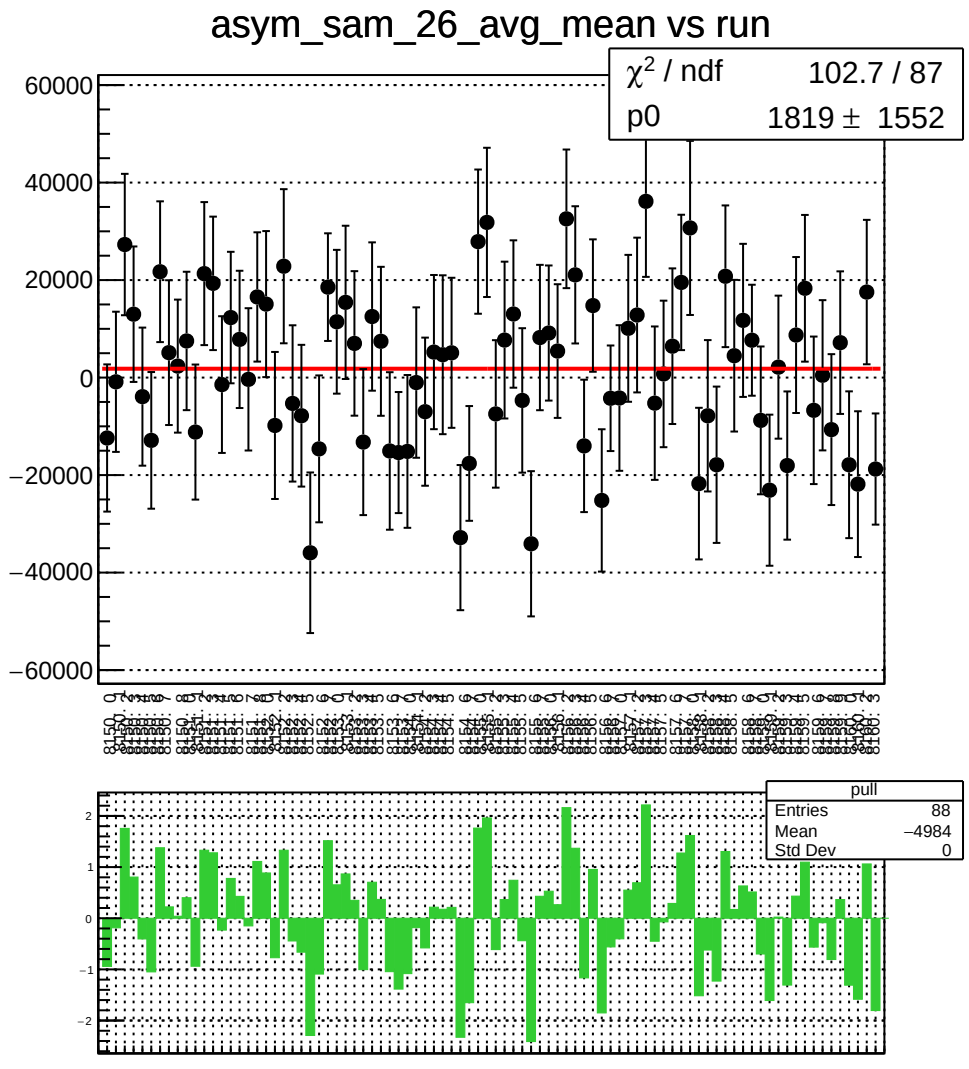

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 4834 / 87
p0 1429 ± 1.105
1700
1600
1500
1400
1300

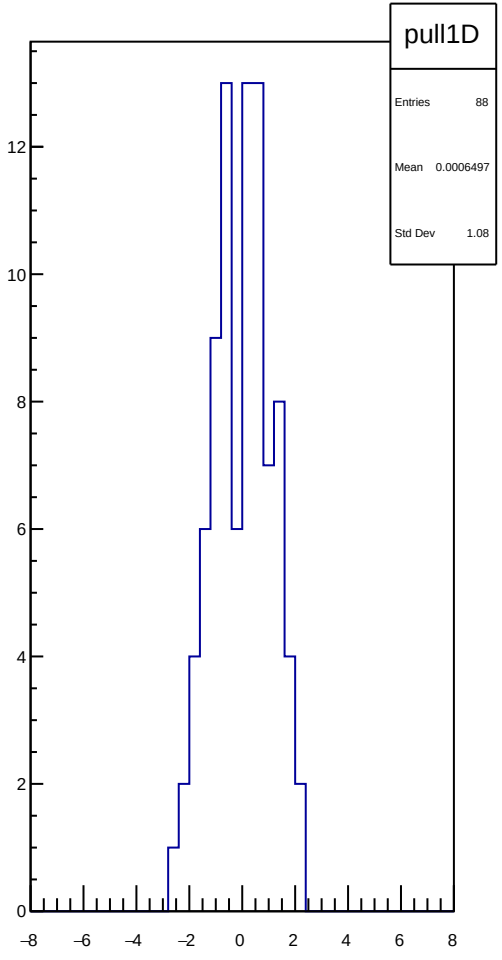

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 87.85 / 87
p0 265.8 ± 157.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 44.36
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01854
Std Dev 0.999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

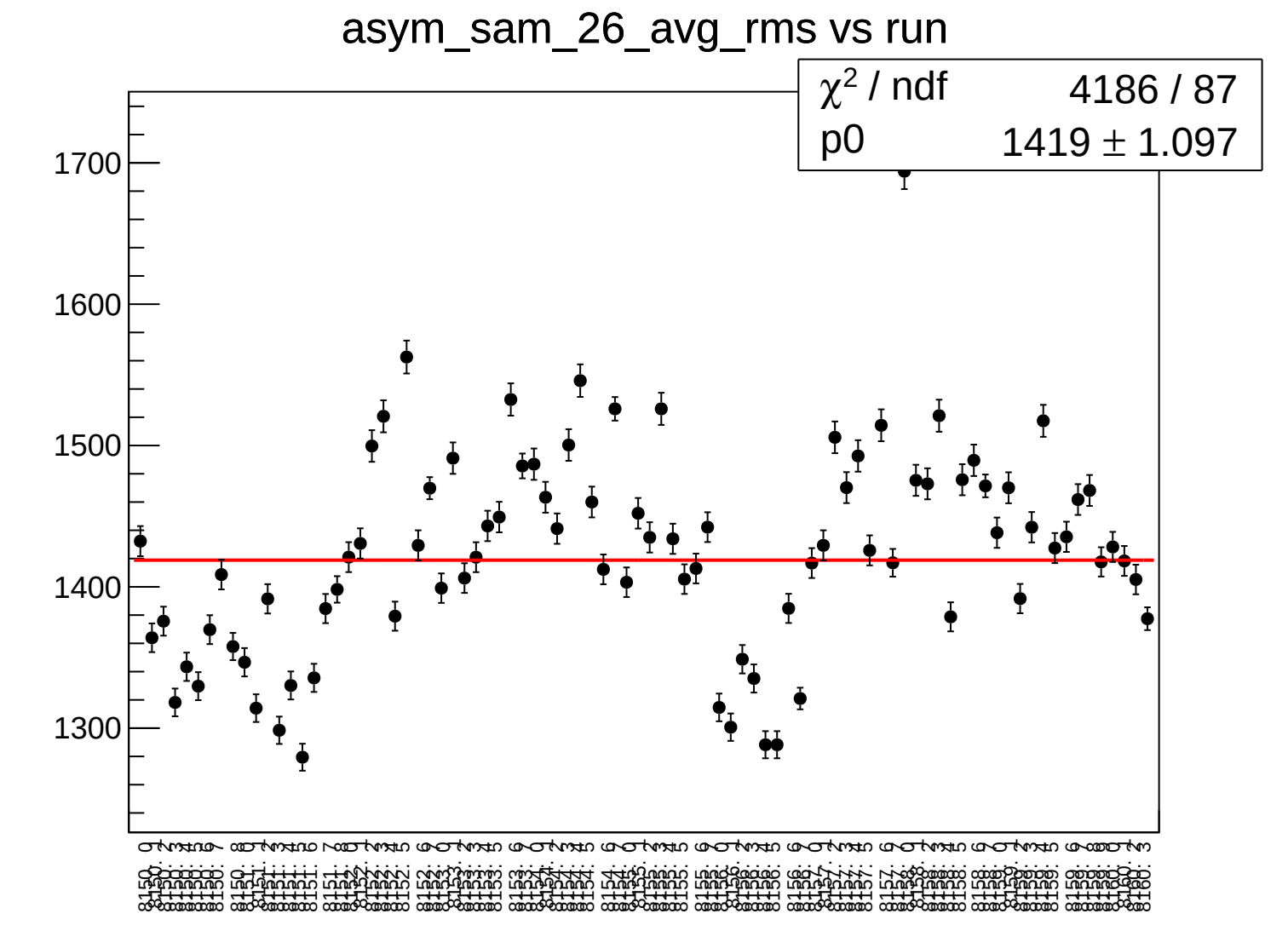

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 9846 / 87
p0 143.4 ± 0.1111
180
170
160
150
140
130

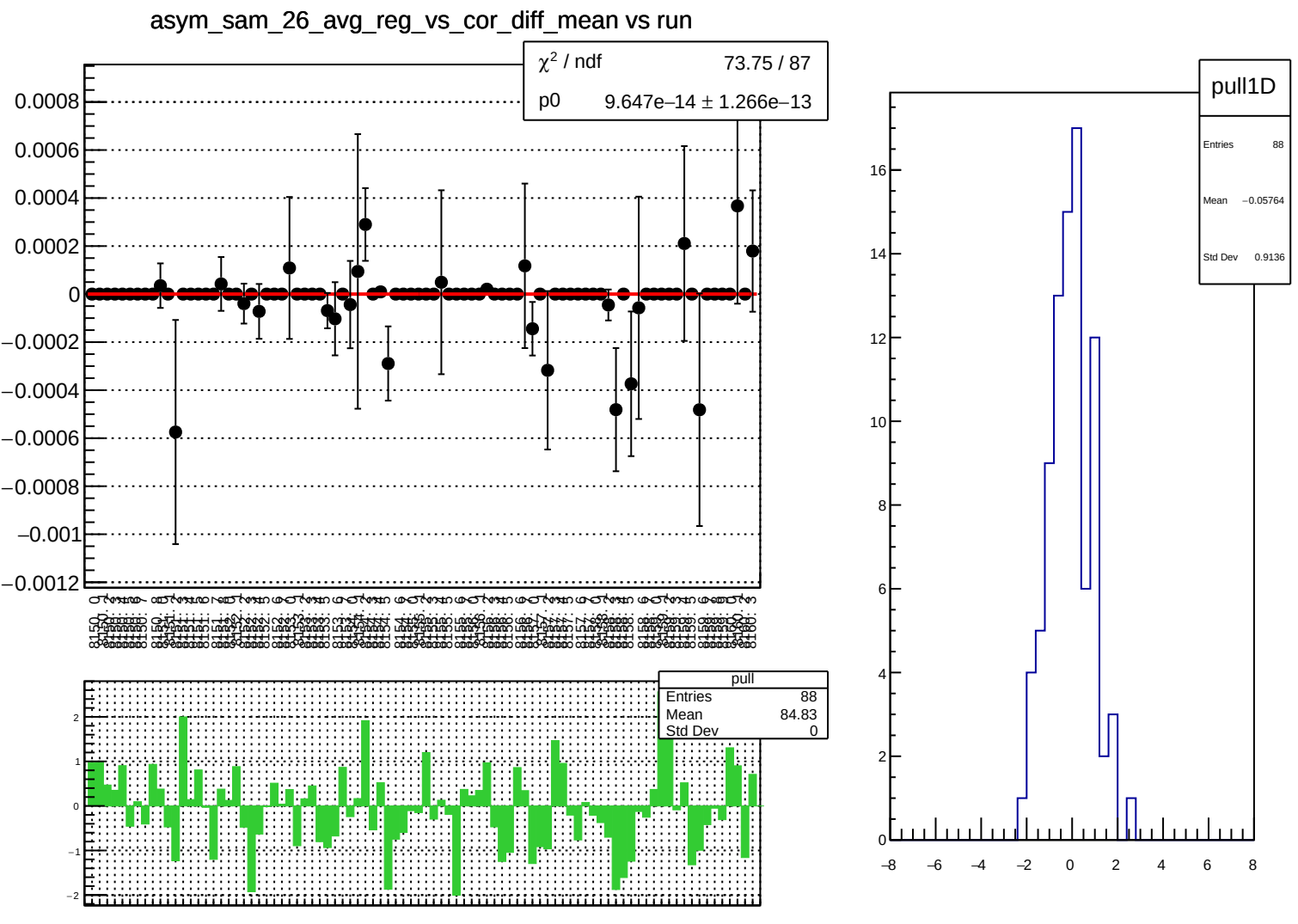

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 101.9 / 87
p0 −1594 ± 1563
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −2934
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001094
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

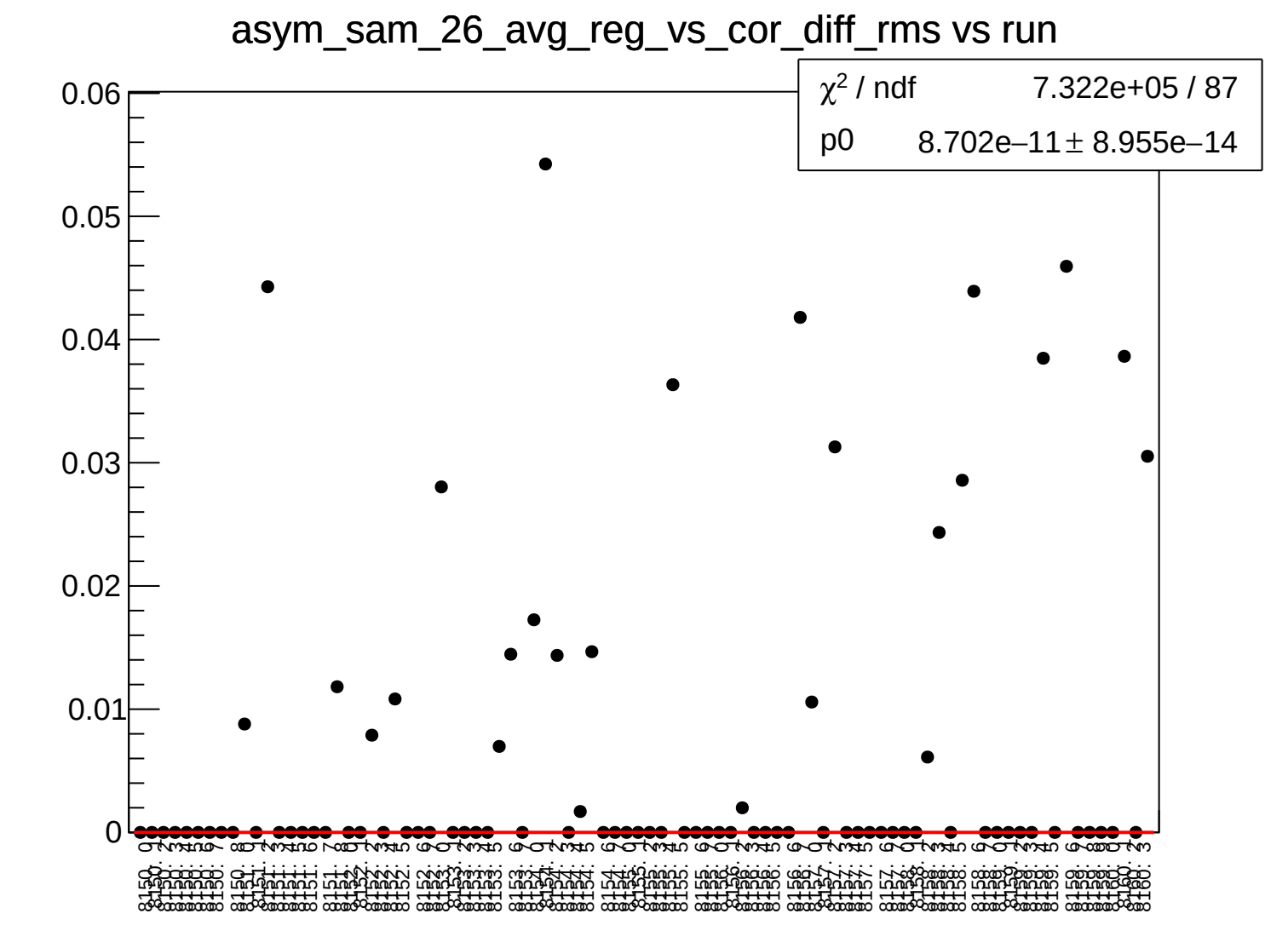

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 4834 / 87
p0 1429 ± 1.105
1700
1600
1500
1400
1300

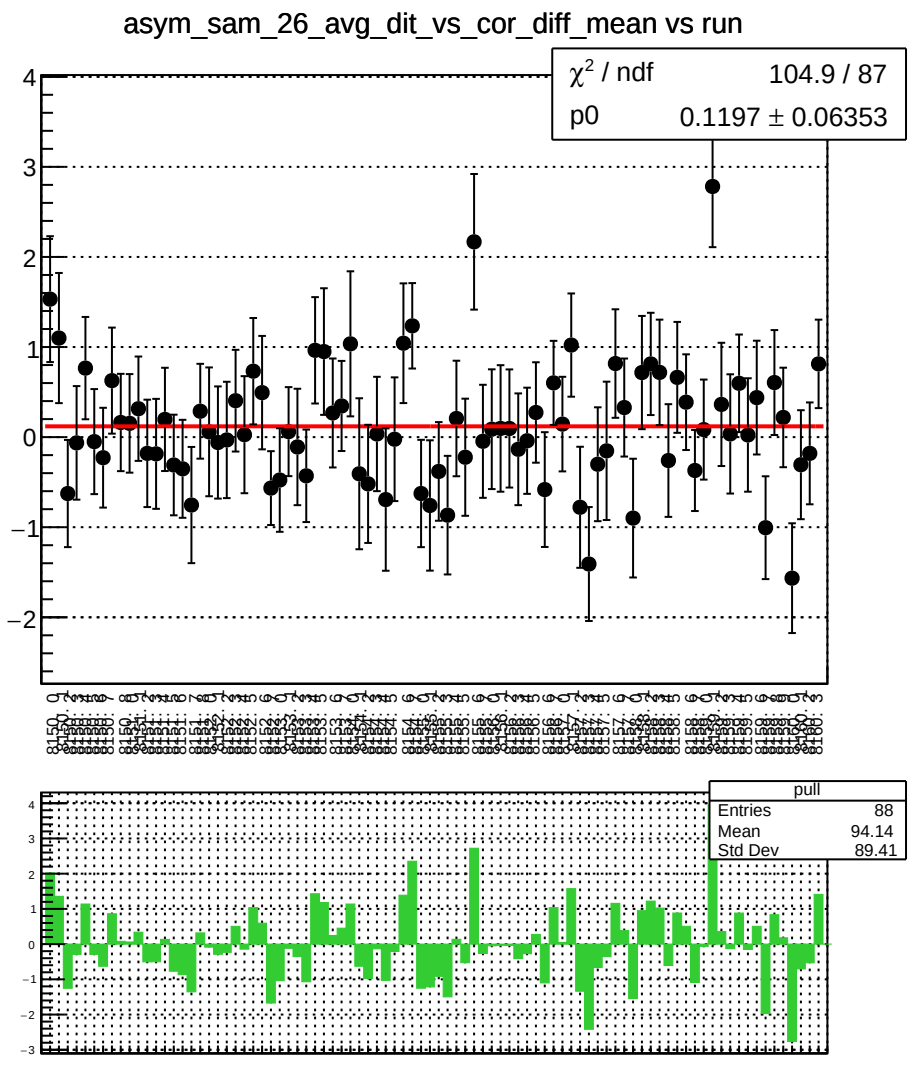

asym_sam_26_avg_mean vs run
χ² / ndf 102.7 / 87
p0 1819 ± 1552
pull
Entries 88
Mean −4984
Std Dev 0

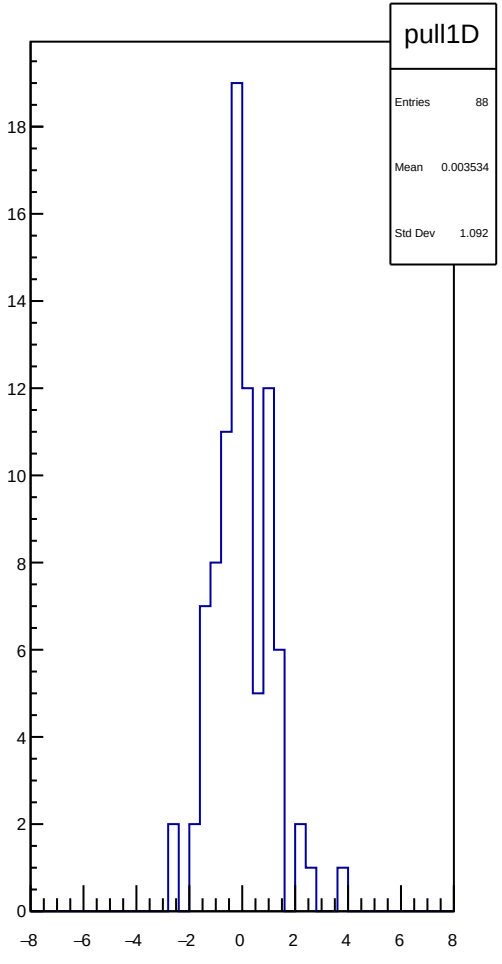

pull1D
Entries 88
Mean 0.0006497
Std Dev 1.08

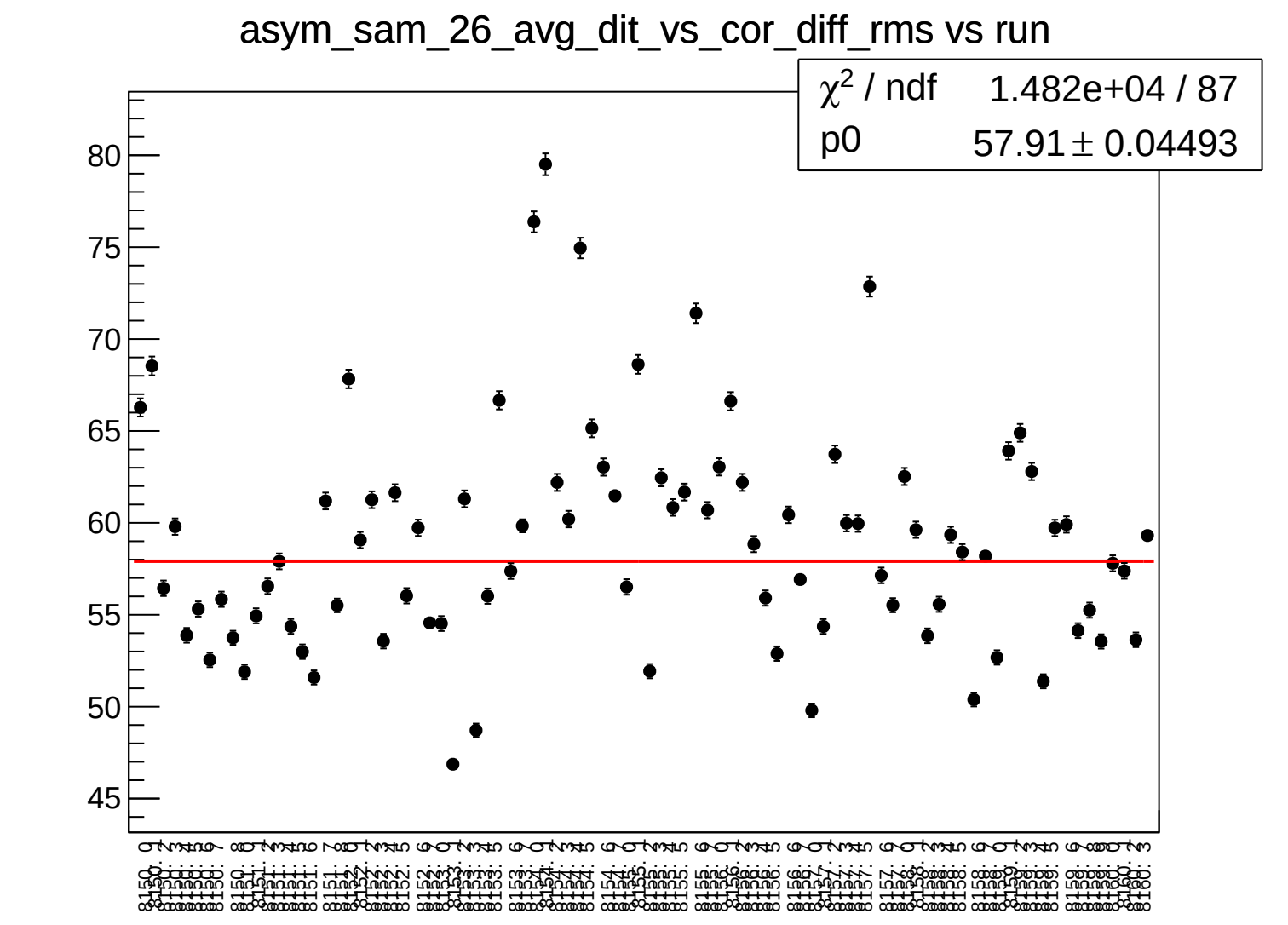

asym_sam_26_avg_rms vs run
χ² / ndf 4186 / 87
p0 1419 ± 1.097
1700
1600
1500
1400
1300

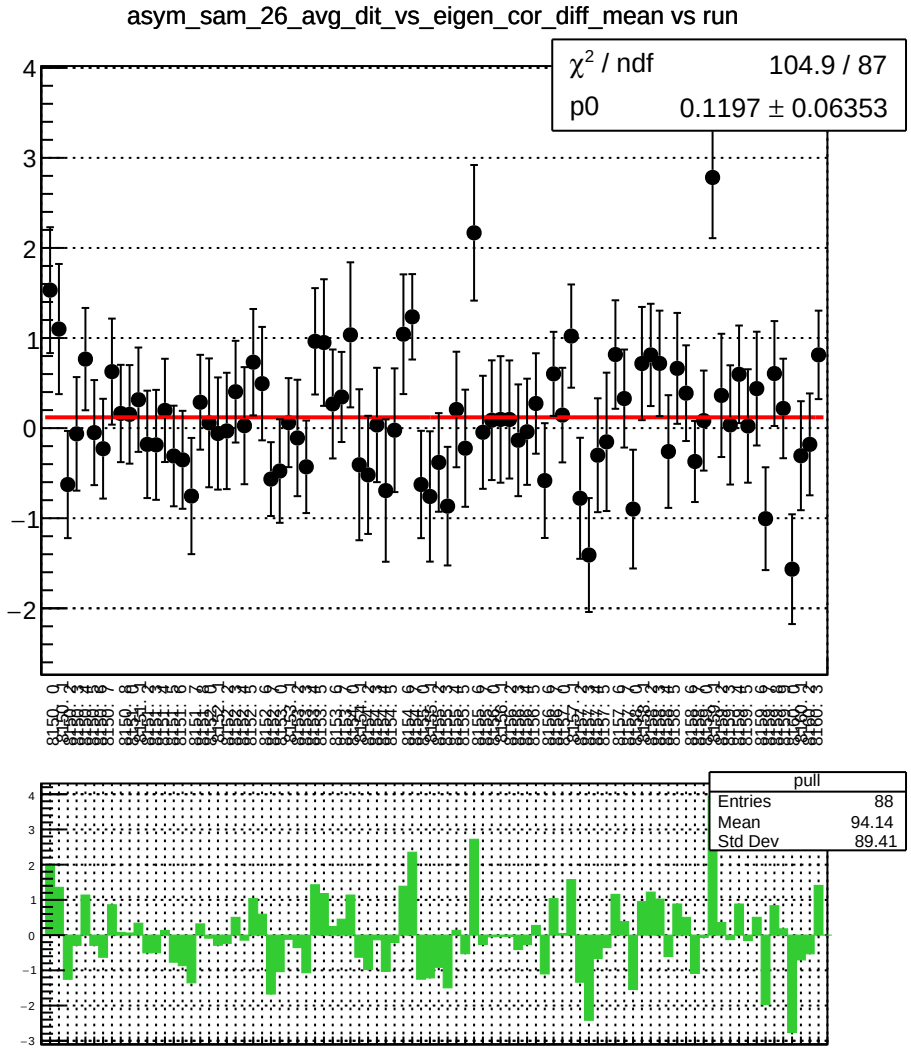

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.75 / 87
p0 9.647e−14 ± 1.266e−13
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 88
Mean 84.83
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.05764
Std Dev 0.9136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

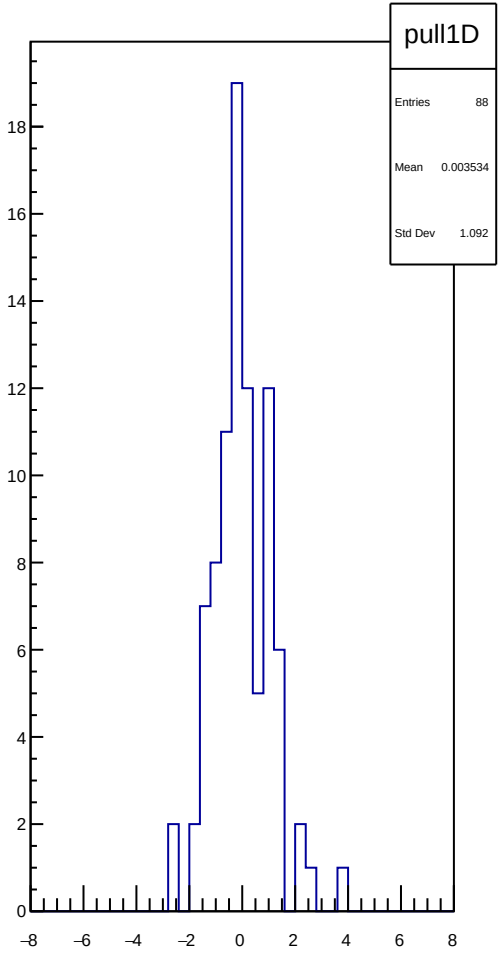

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.322e+05 / 87
p0 8.702e−11 ± 8.955e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

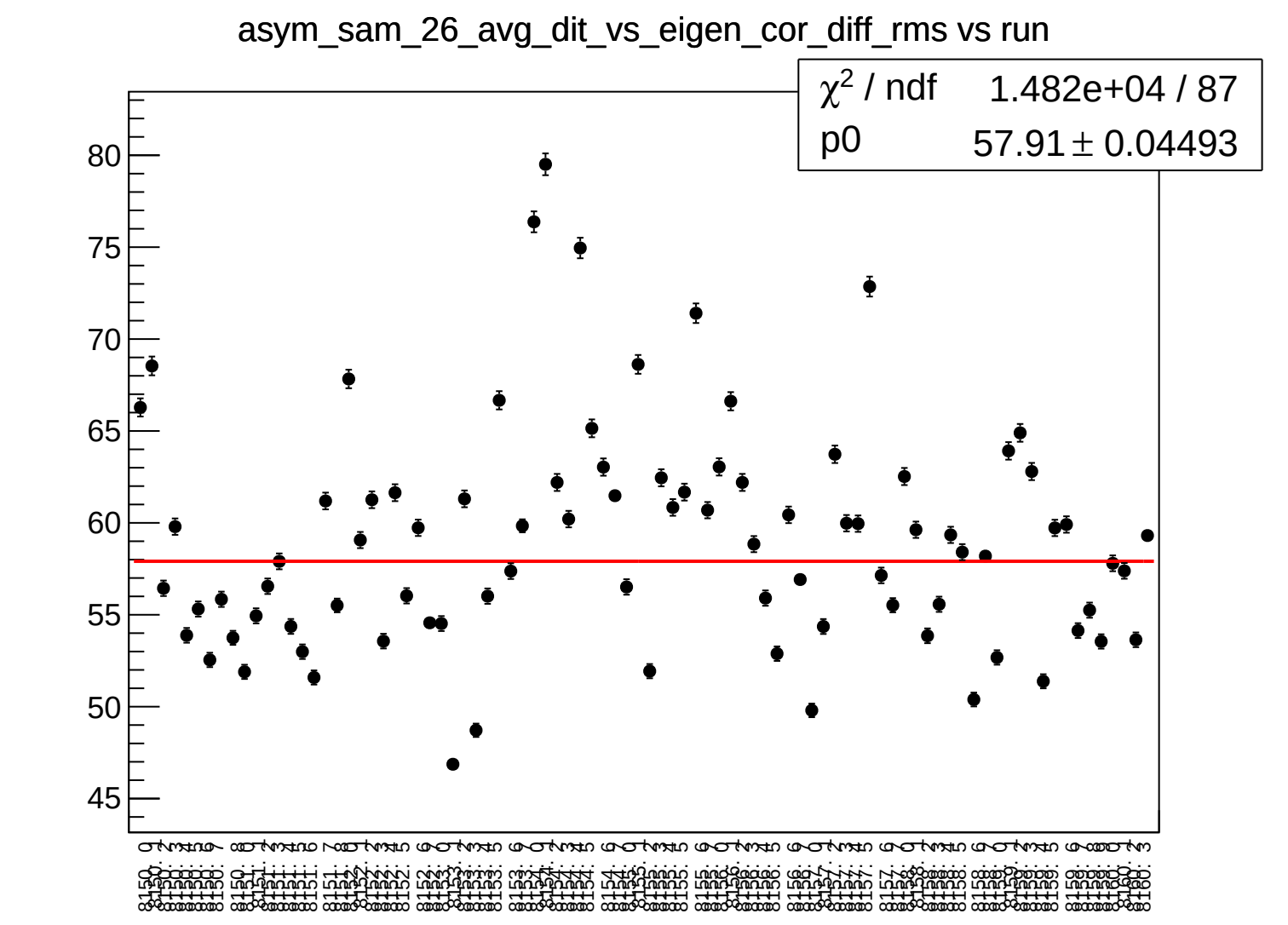

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 87
p0 0.1197 ± 0.06353
pull
Entries 88
Mean 94.14
Std Dev 89.41

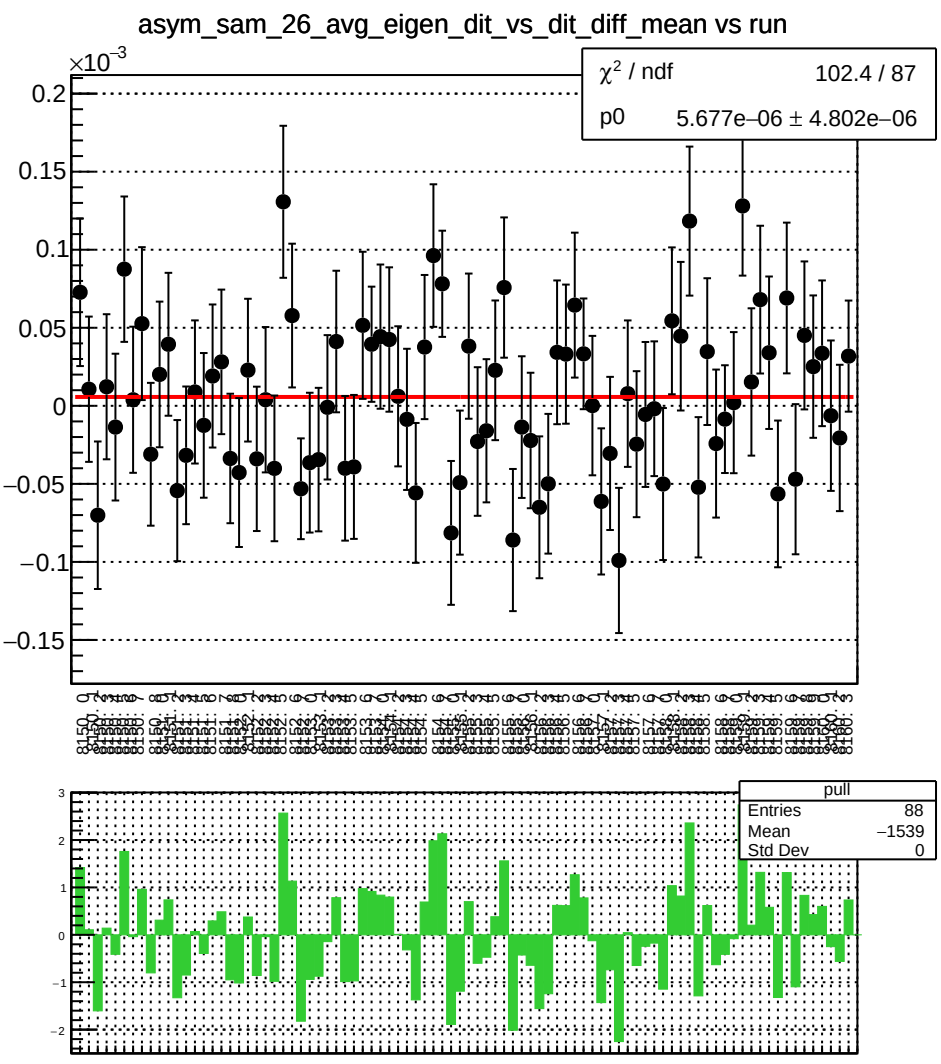

pull1D
Entries 88
Mean 0.003534
Std Dev 1.092

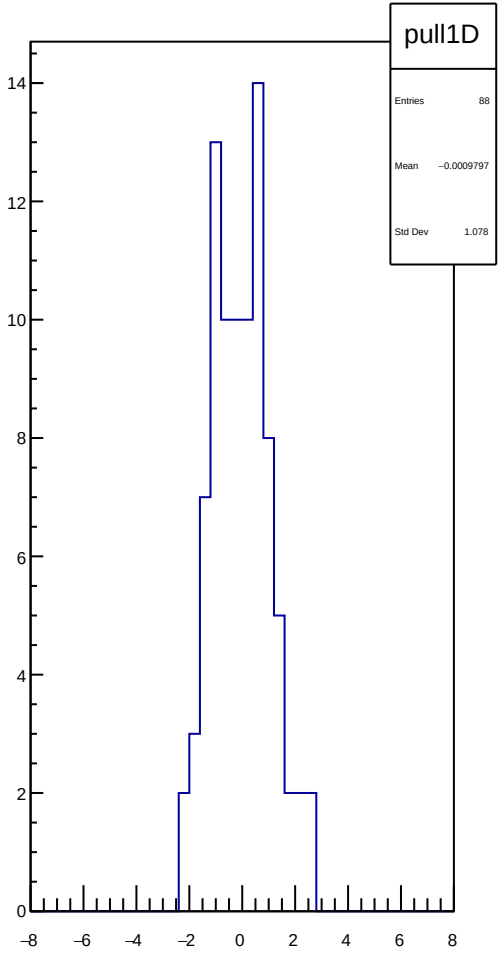

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.482e+04 / 87
p0 57.91 ± 0.04493
80
75
70
65
60
55
50
45

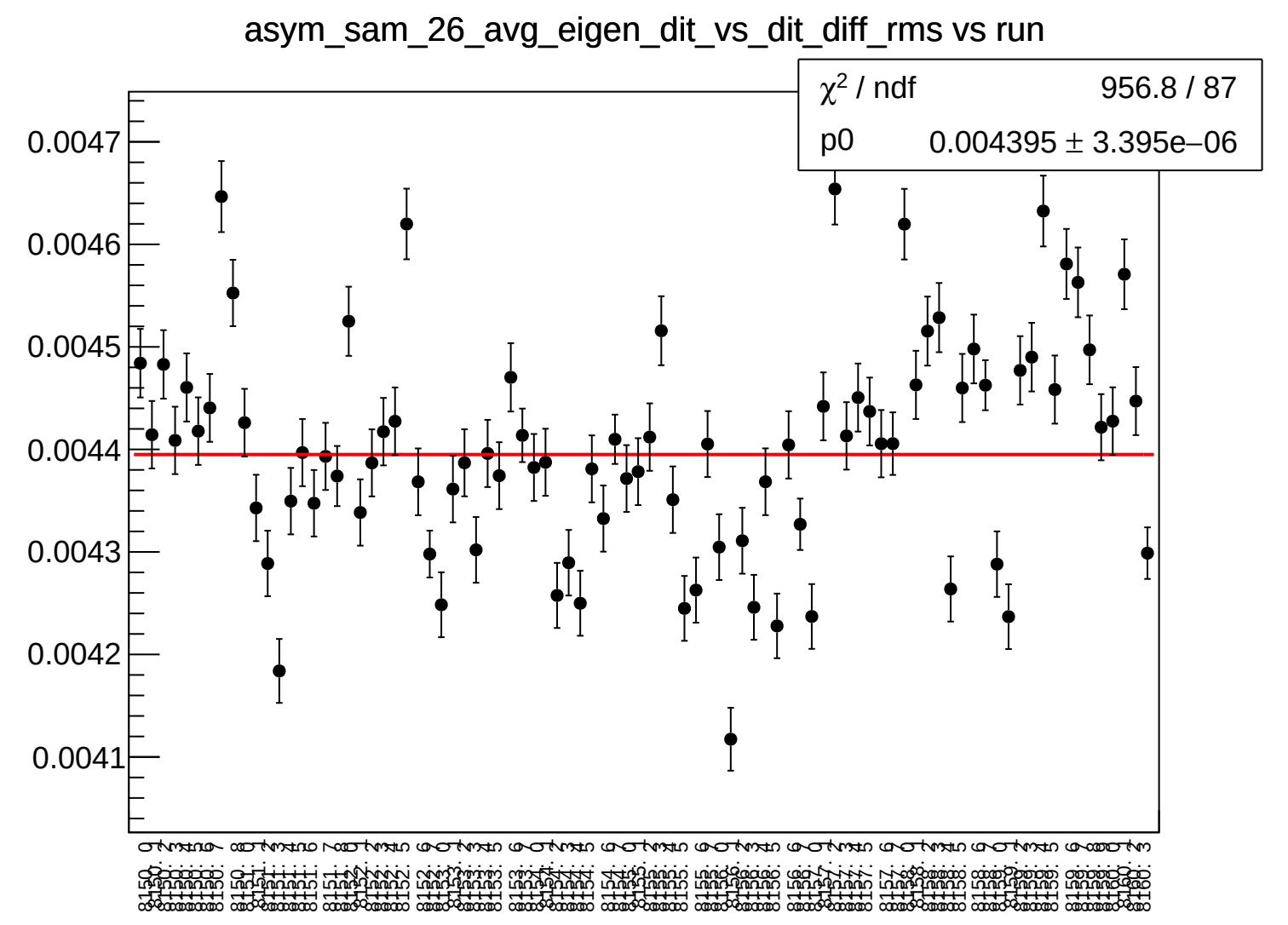

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 87
p0 0.1197 ± 0.06353
pull
Entries 88
Mean 94.14
Std Dev 89.41

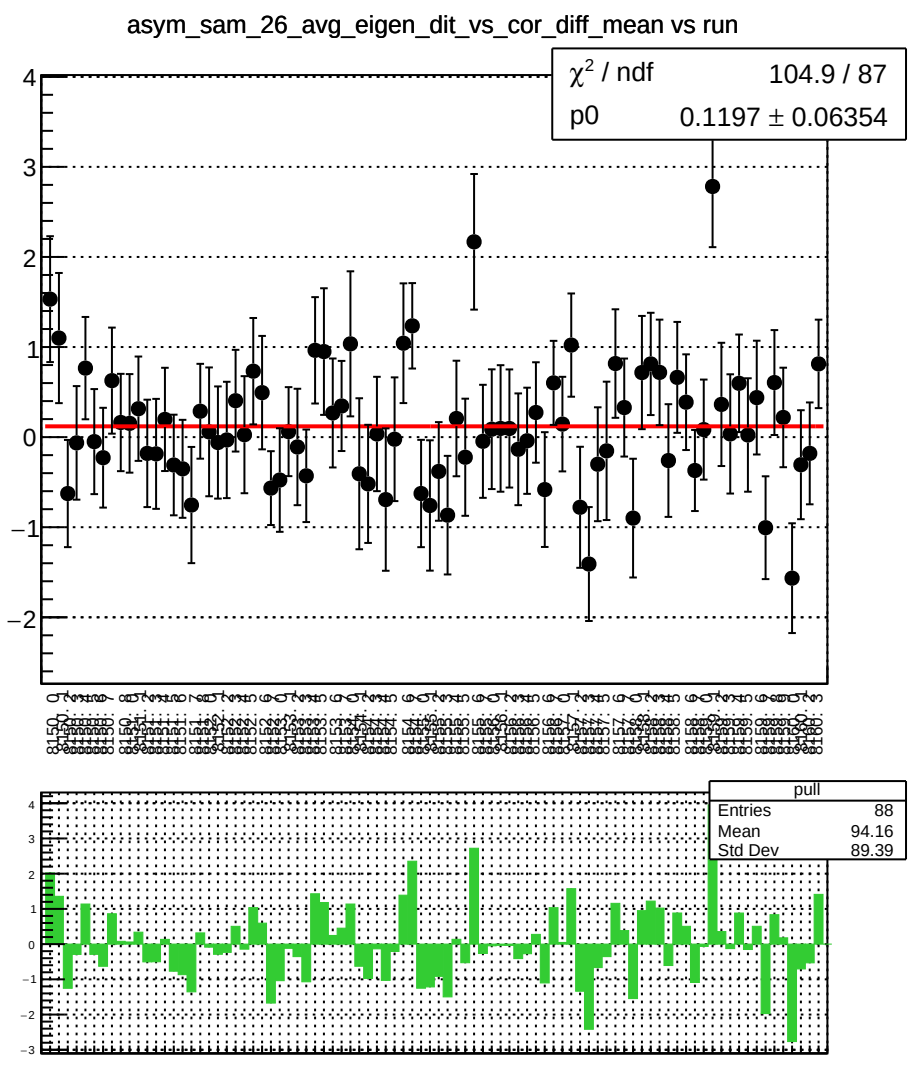

pull1D
Entries 88
Mean 0.003534
Std Dev 1.092

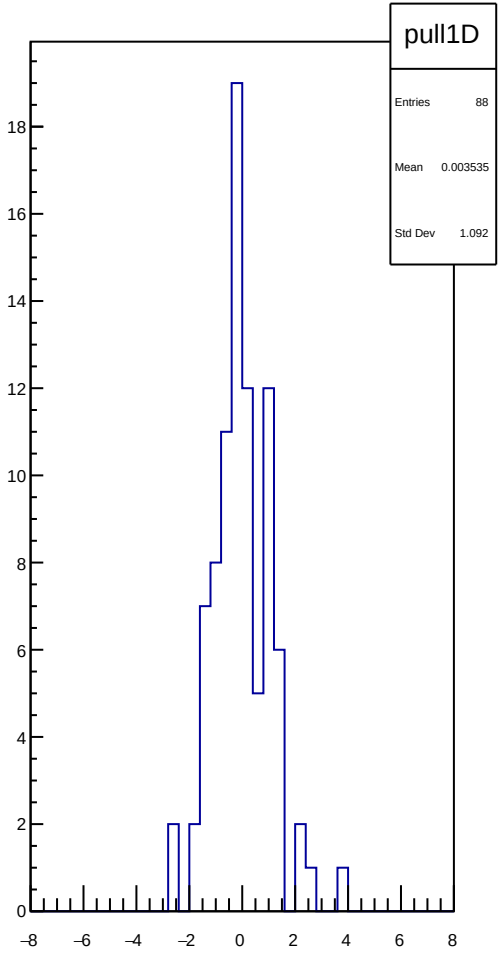

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.482e+04 / 87
p0 57.91 ± 0.04493
80
75
70
65
60
55
50
45

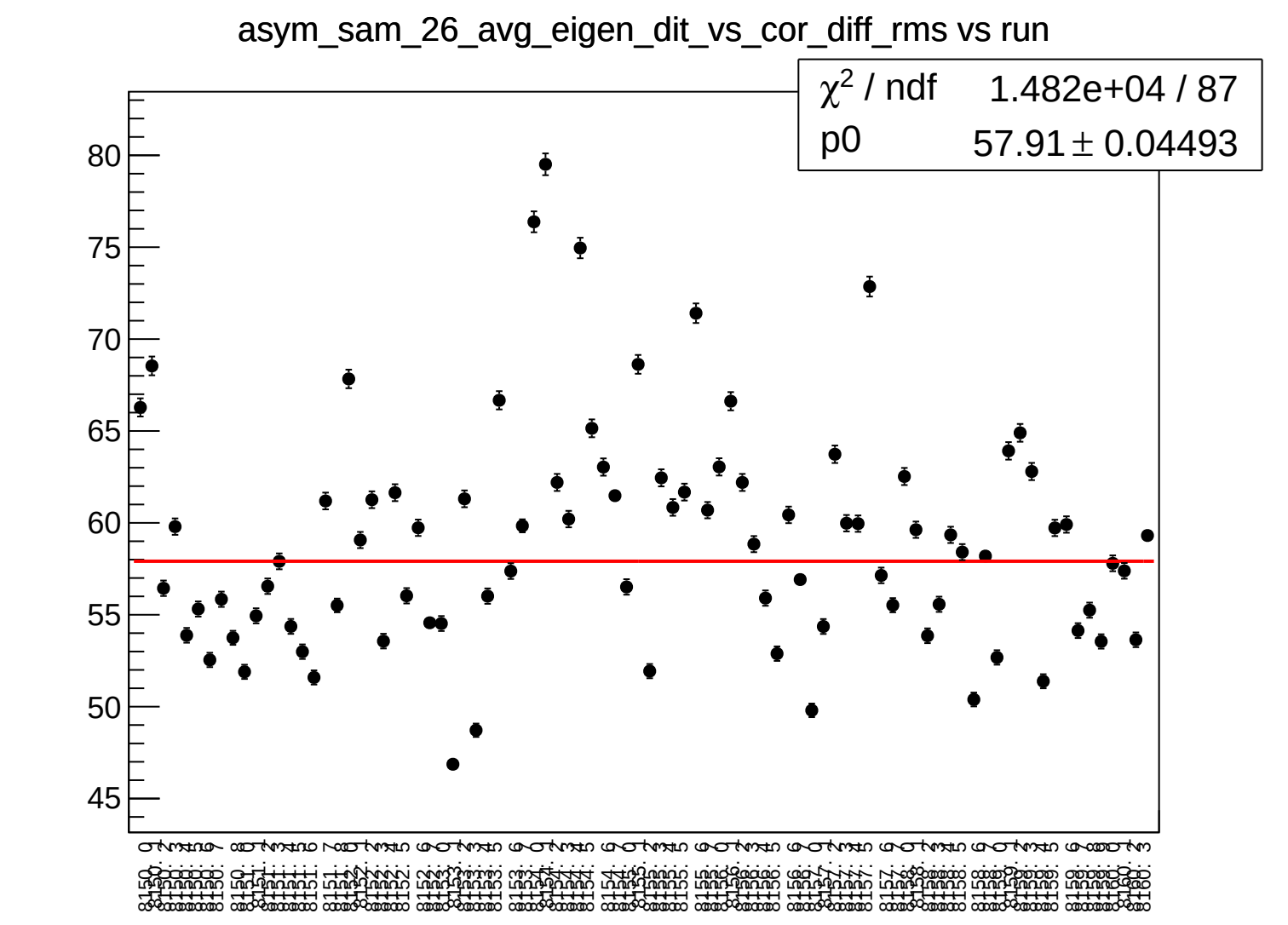

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.4 / 87
p0 5.677e−06 ± 4.802e−06
pull
Entries 88
Mean −1539
Std Dev 0

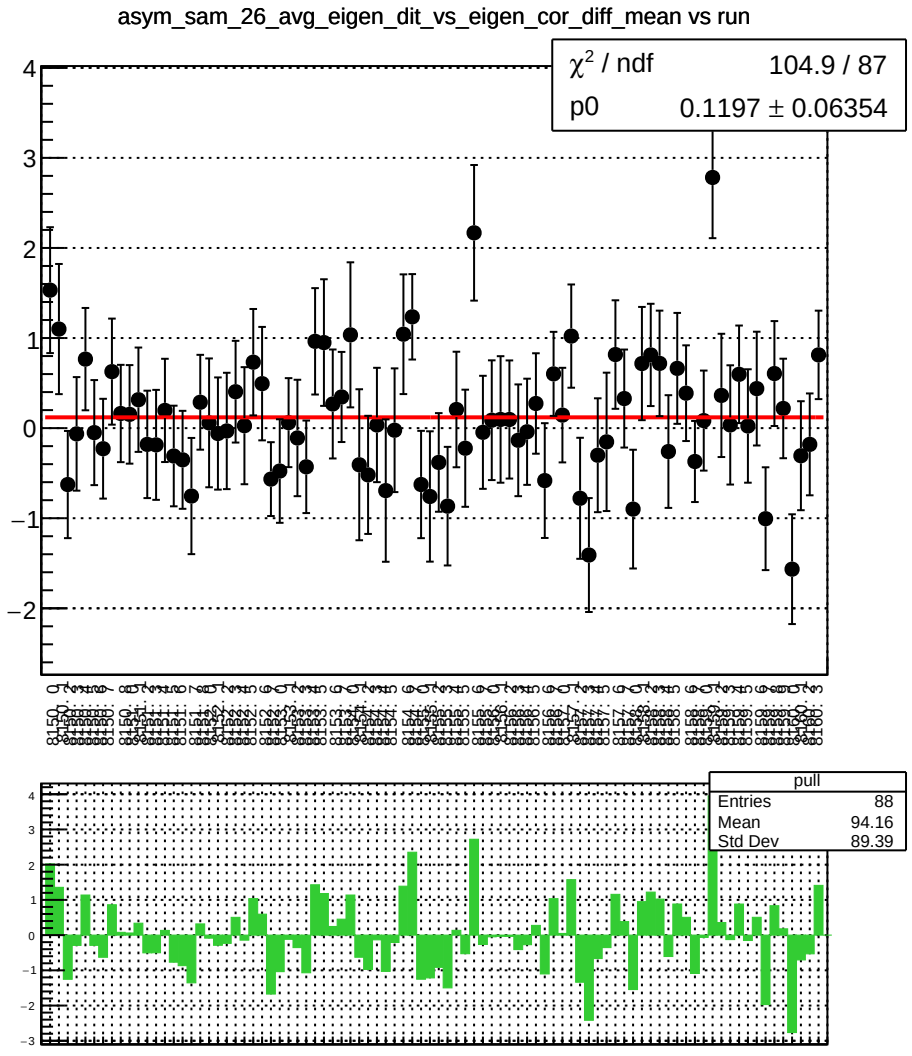

pull1D
Entries 88
Mean −0.0009797
Std Dev 1.078

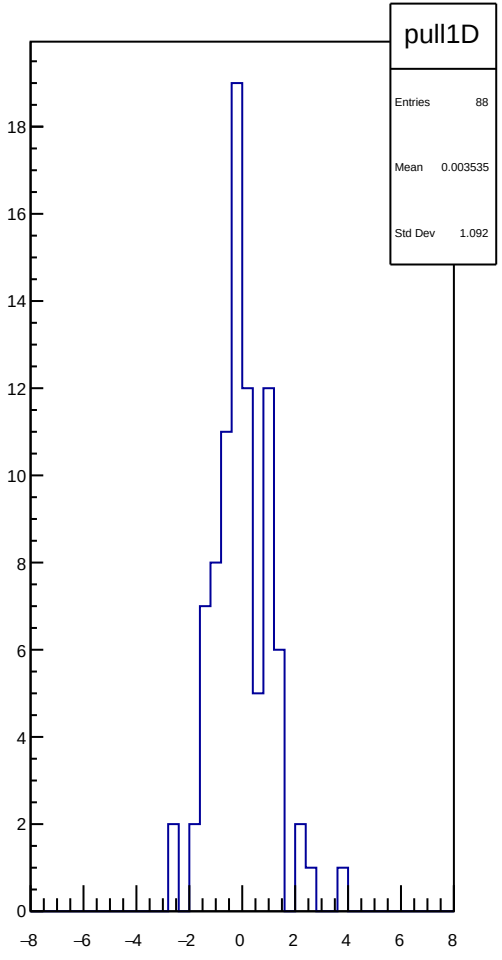

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 956.8 / 87
p0 0.004395 ± 3.395e−06
0.0047
0.0046
0.0045
0.0044
0.0043
0.0042
0.0041

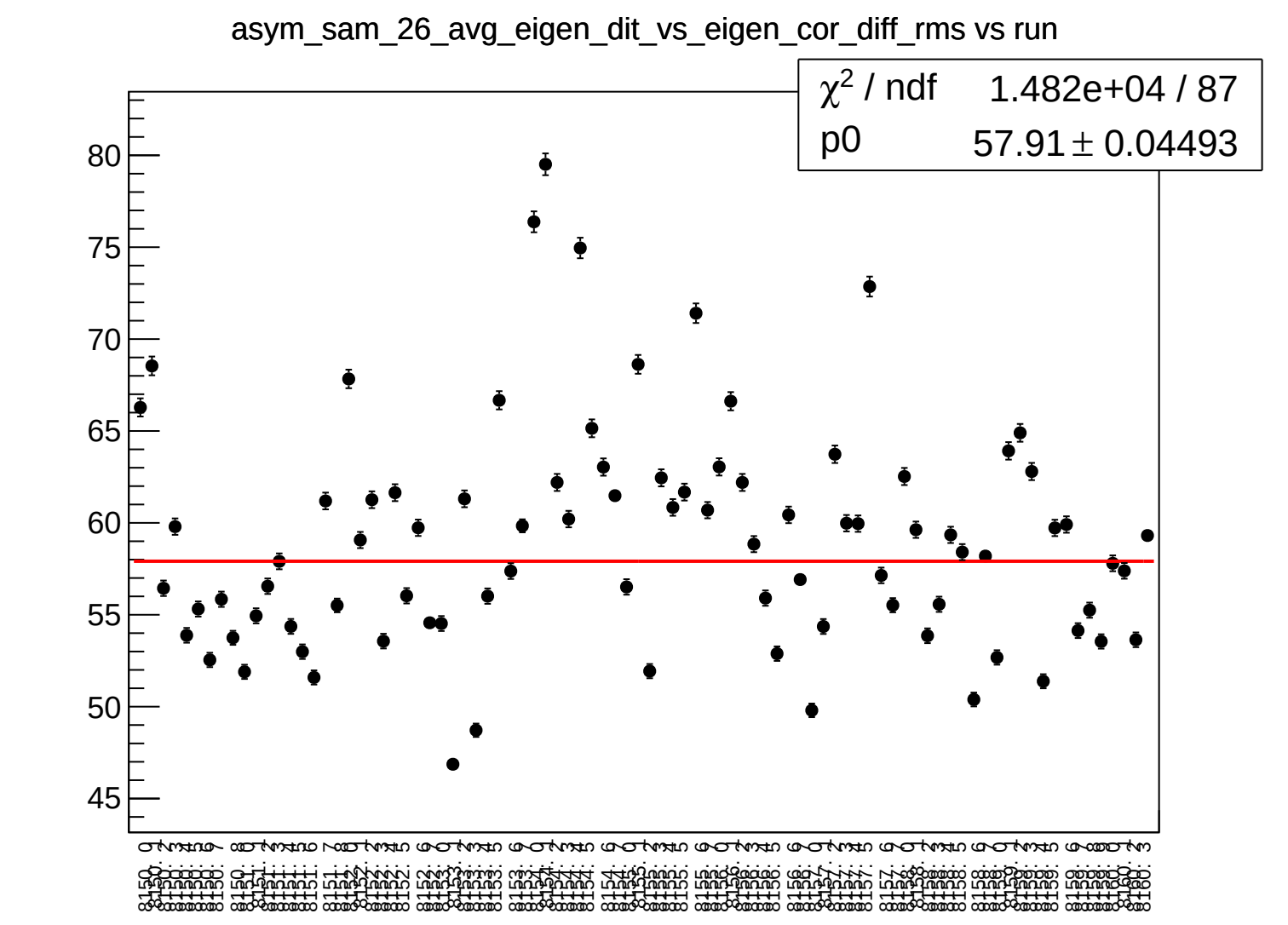

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 87
p0 0.1197 ± 0.06354
pull
Entries 88
Mean 94.16
Std Dev 89.39

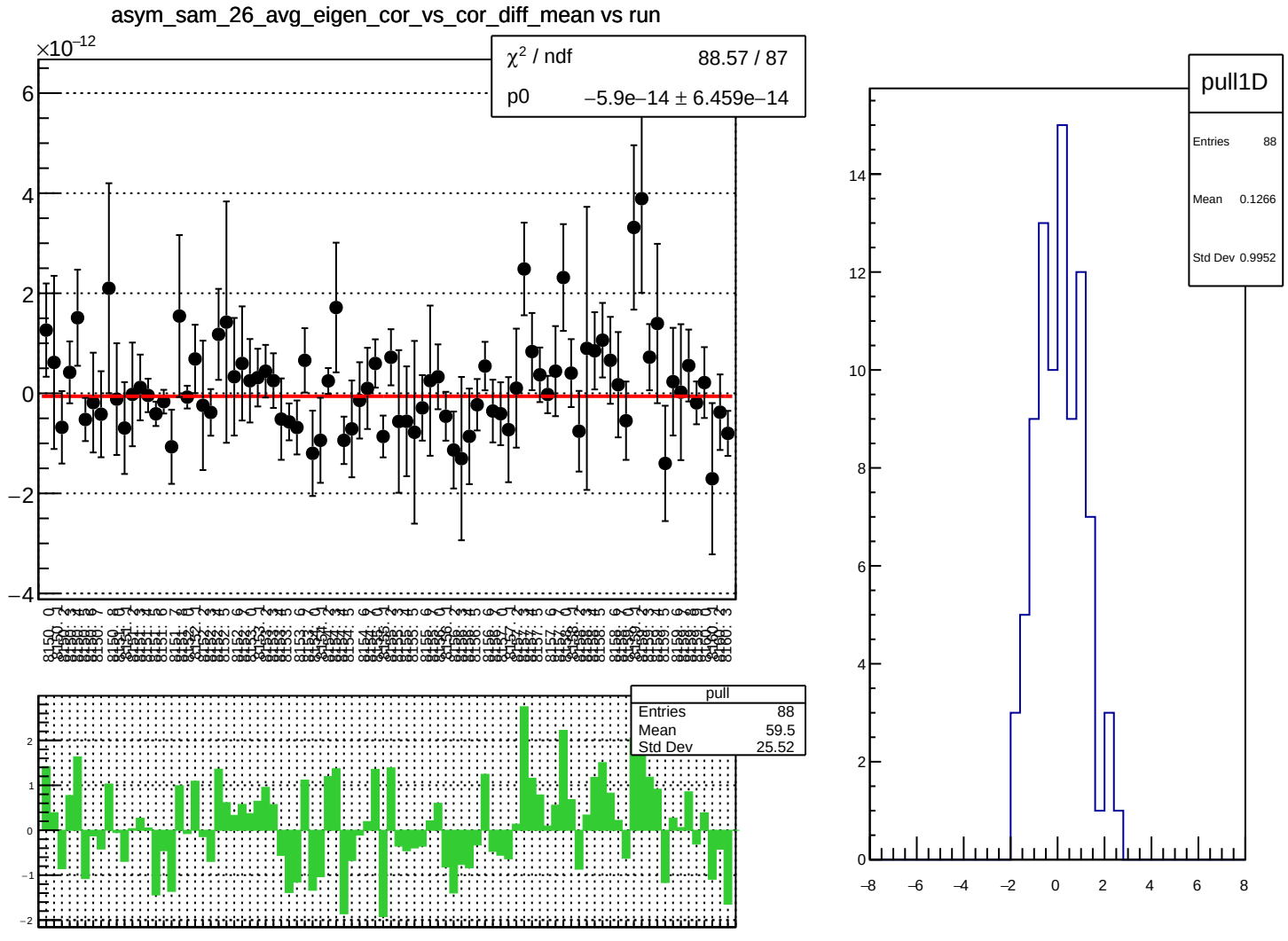

pull1D
Entries 88
Mean 0.003535
Std Dev 1.092

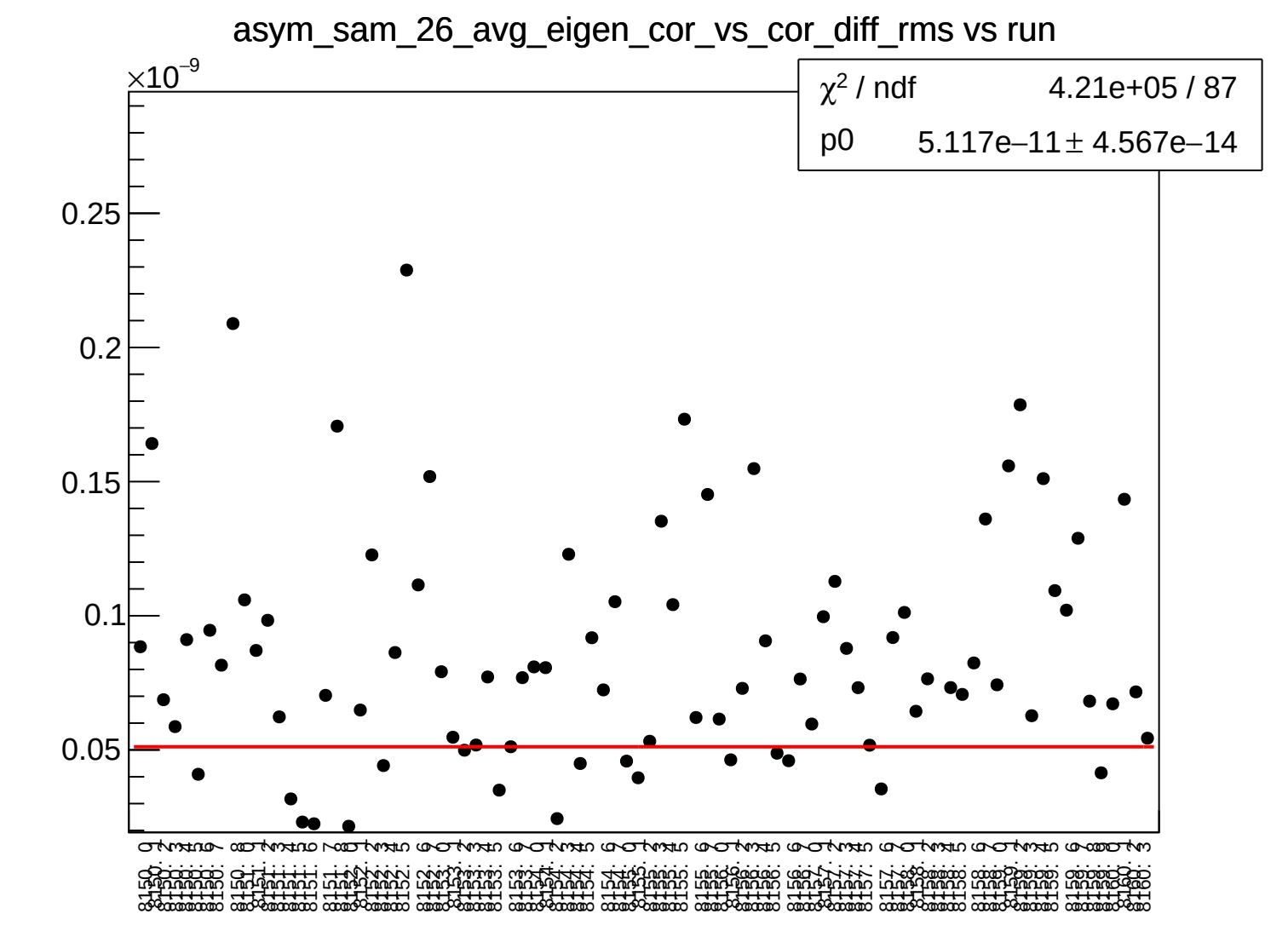

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.482e+04 / 87
p0 57.91 ± 0.04493
80
75
70
65
60
55
50
45

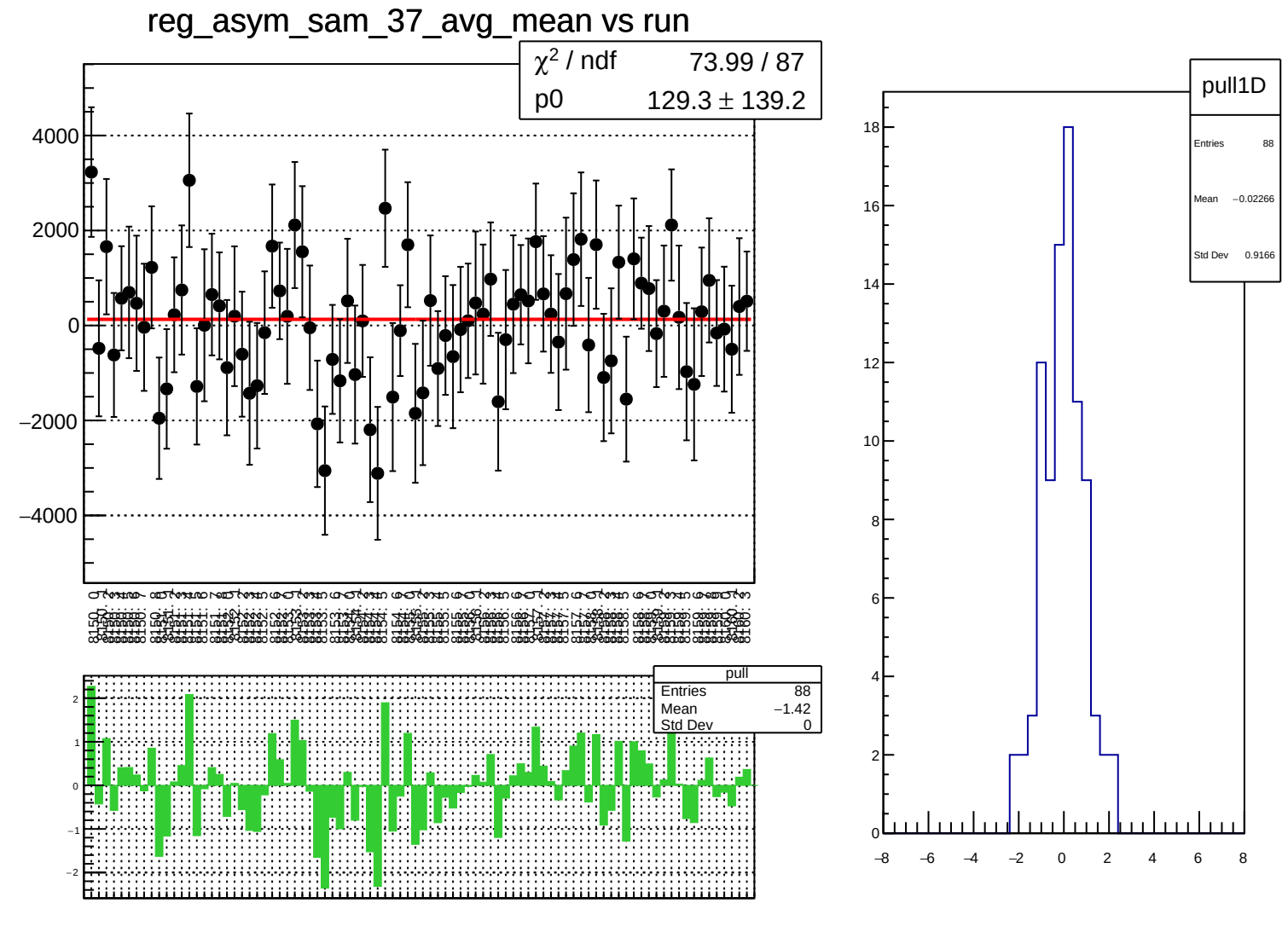

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 87
p0 0.1197 ± 0.06354
pull
Entries 88
Mean 94.16
Std Dev 89.39

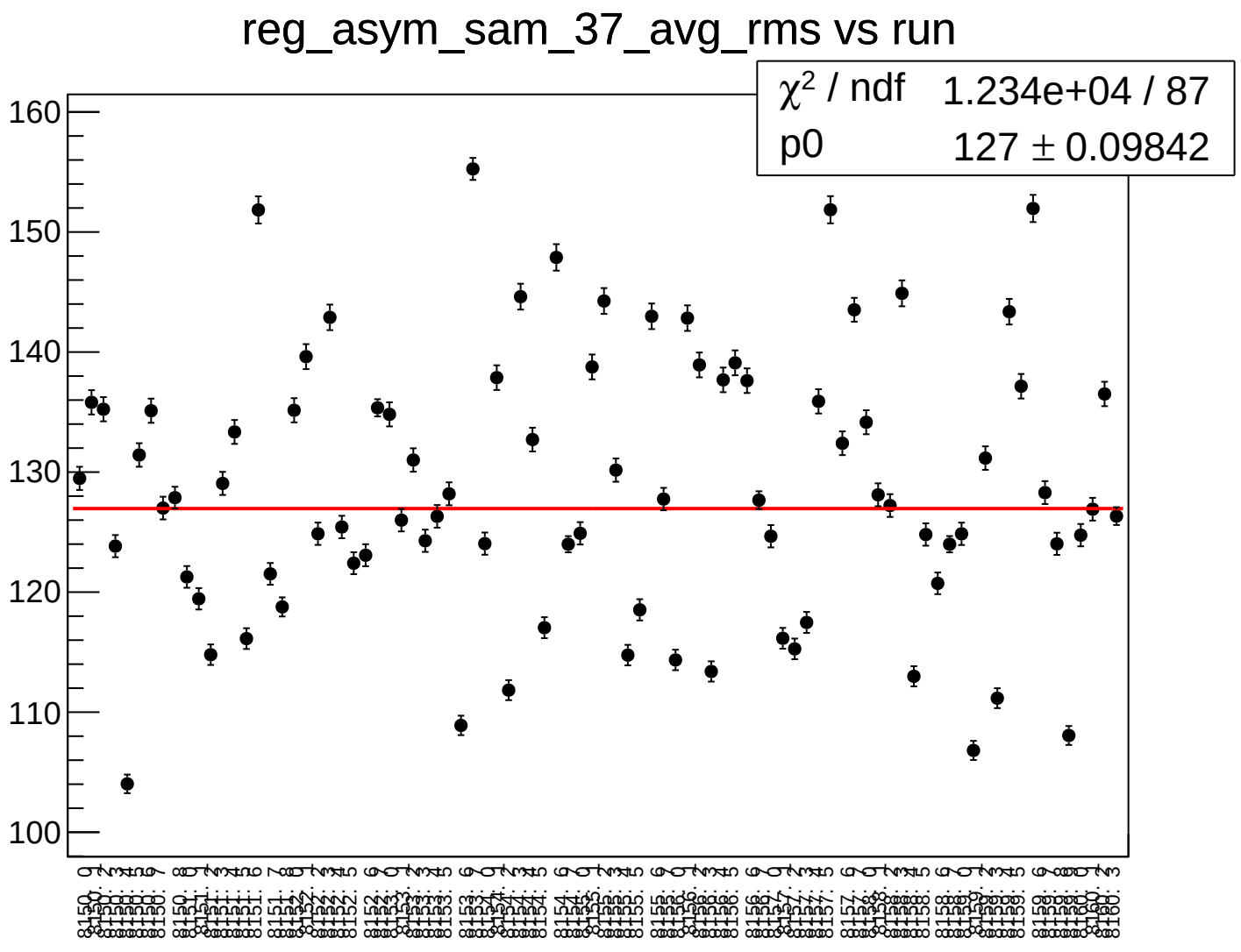

pull1D
Entries 88
Mean 0.003535
Std Dev 1.092

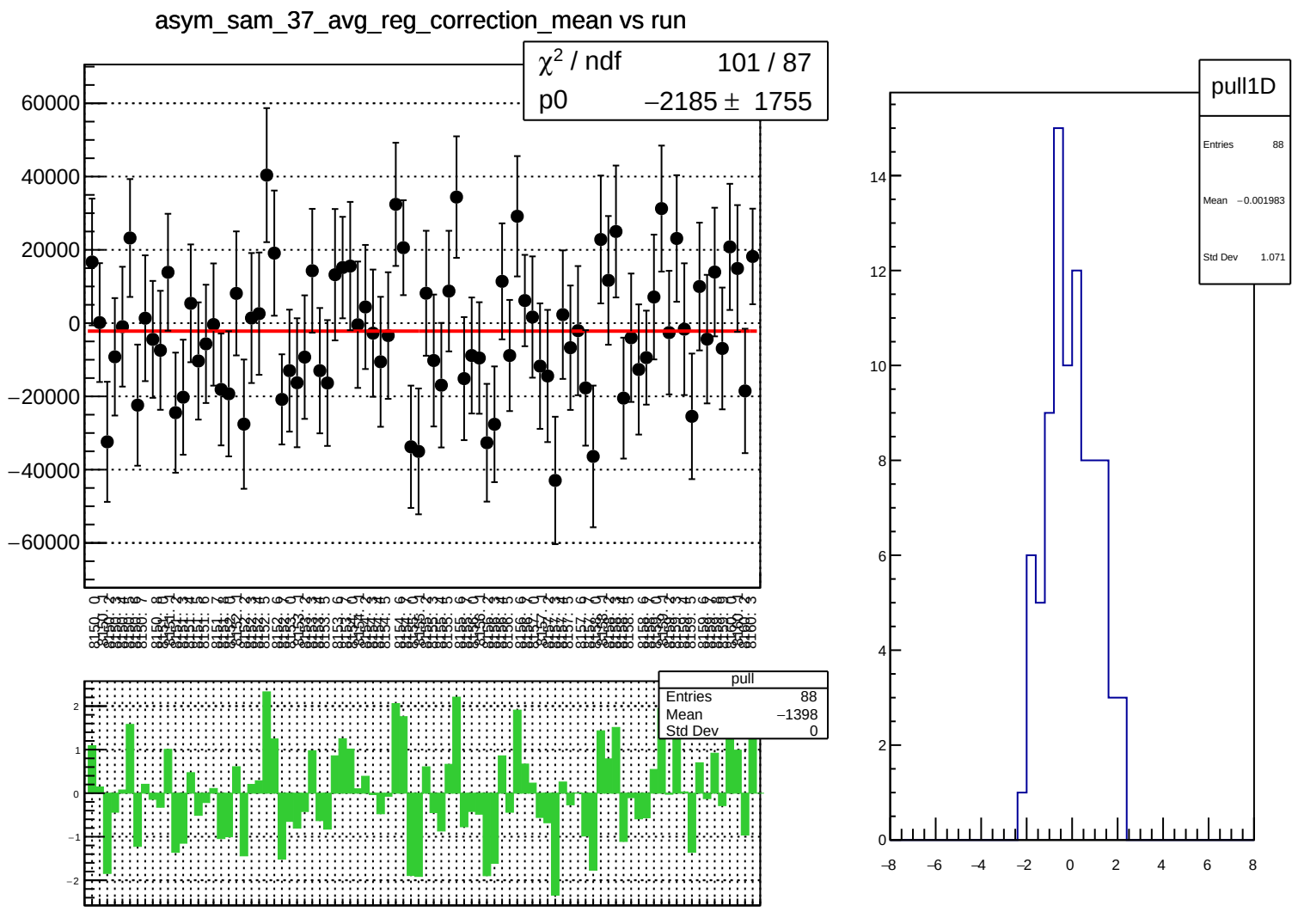

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.482e+04 / 87
p0 57.91 ± 0.04493
80
75
70
65
60
55
50
45

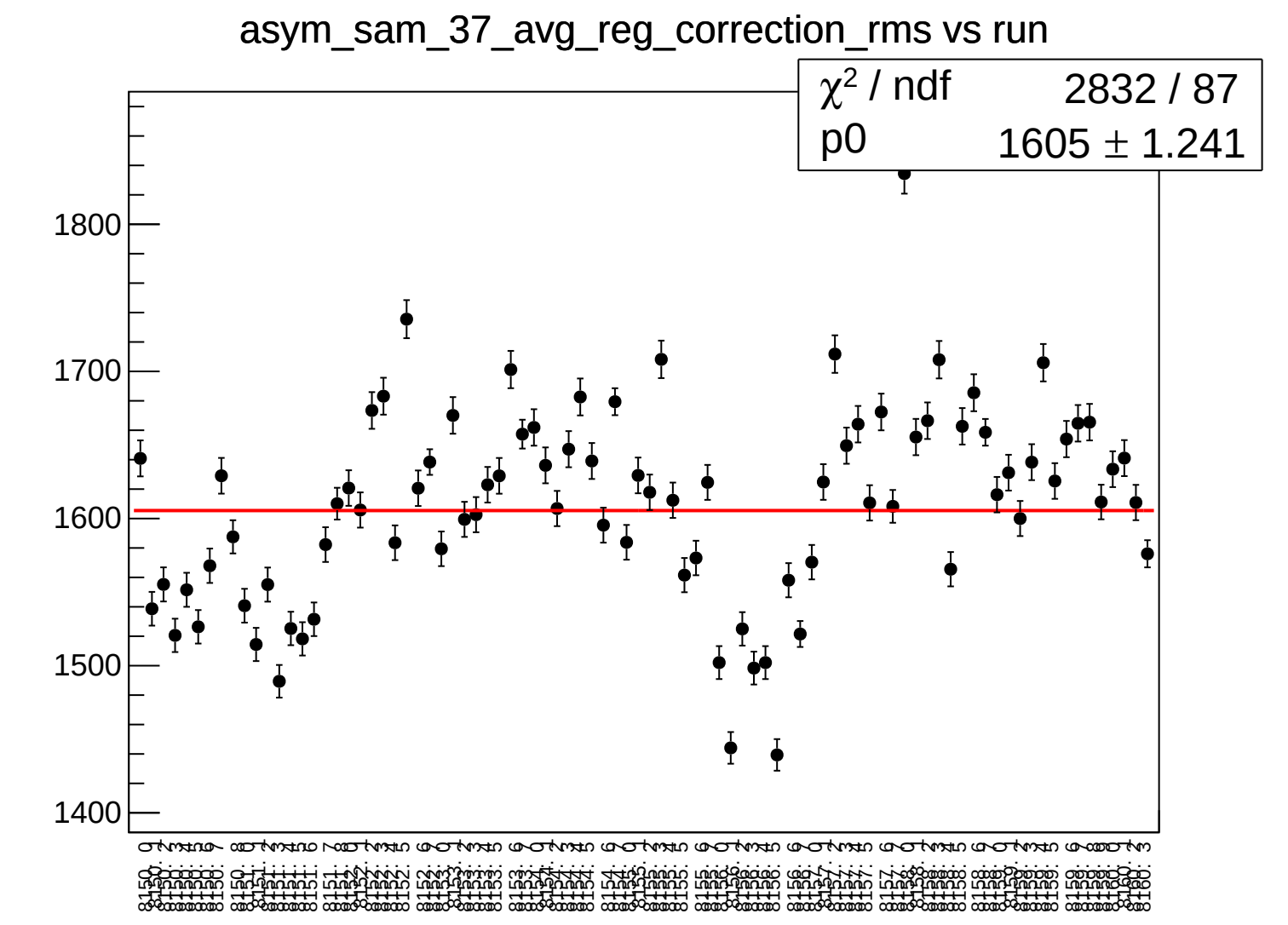

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.57 / 87
p0 −5.9e−14 ± 6.459e−14
pull
Entries 88
Mean 59.5
Std Dev 25.52
pull1D
Entries 88
Mean 0.1266
Std Dev 0.9952

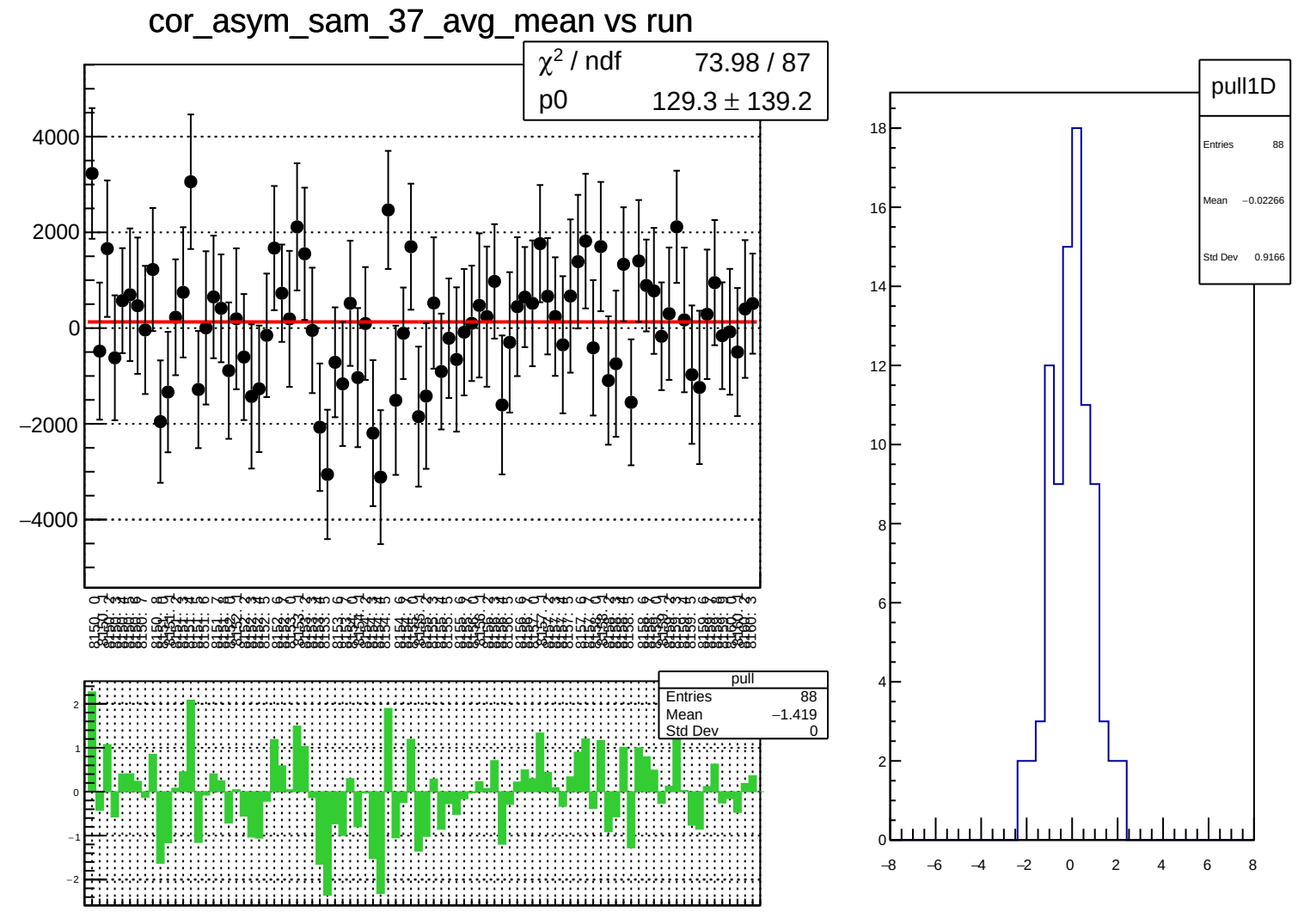

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.21e+05 / 87
p0 5.117e−11 ± 4.567e−14
0.25
0.2
0.15
0.1
0.05

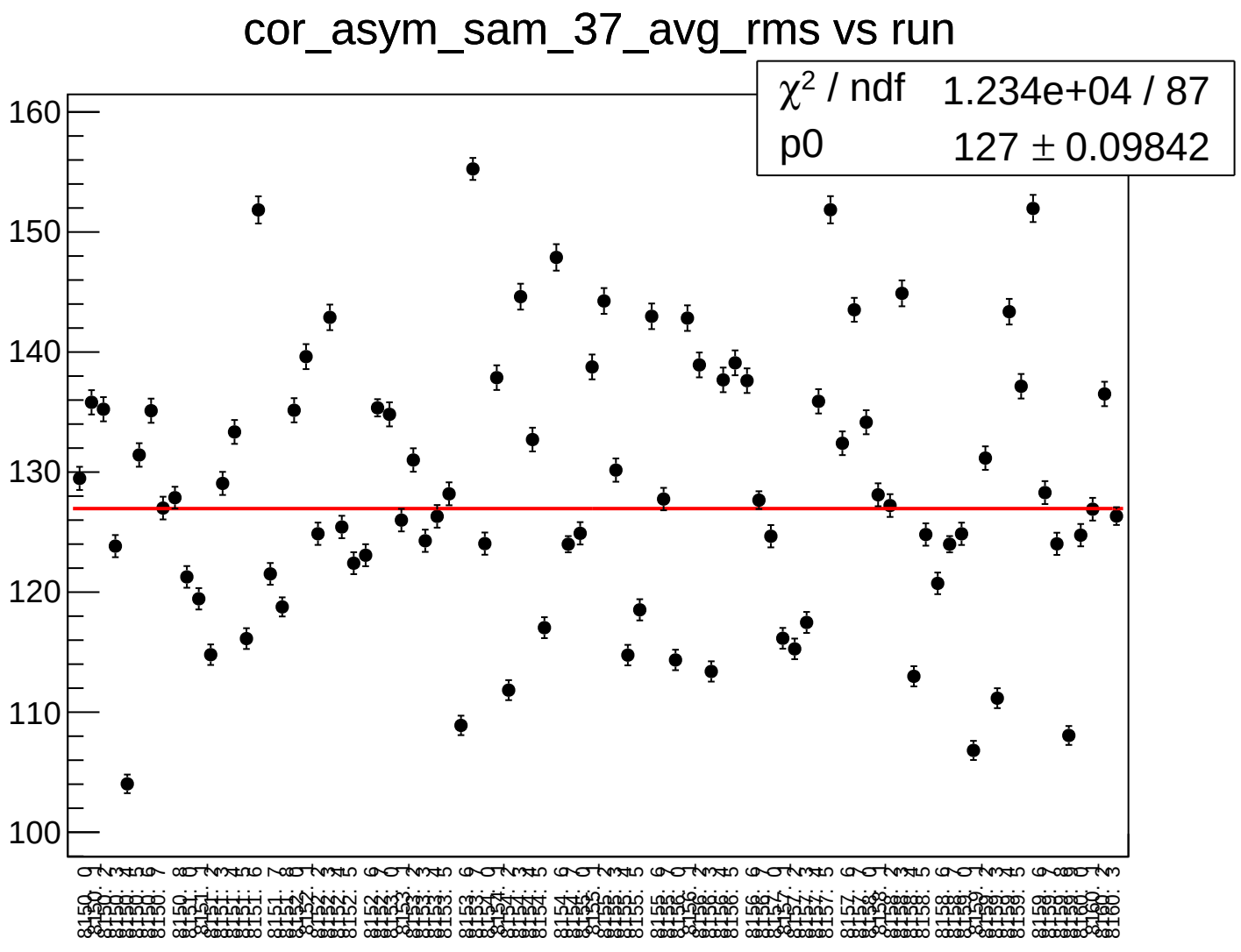

reg_asym_sam_37_avg_mean vs run
χ² / ndf 73.99 / 87
p0 129.3 ± 139.2
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −1.42
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.02266
Std Dev 0.9166
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

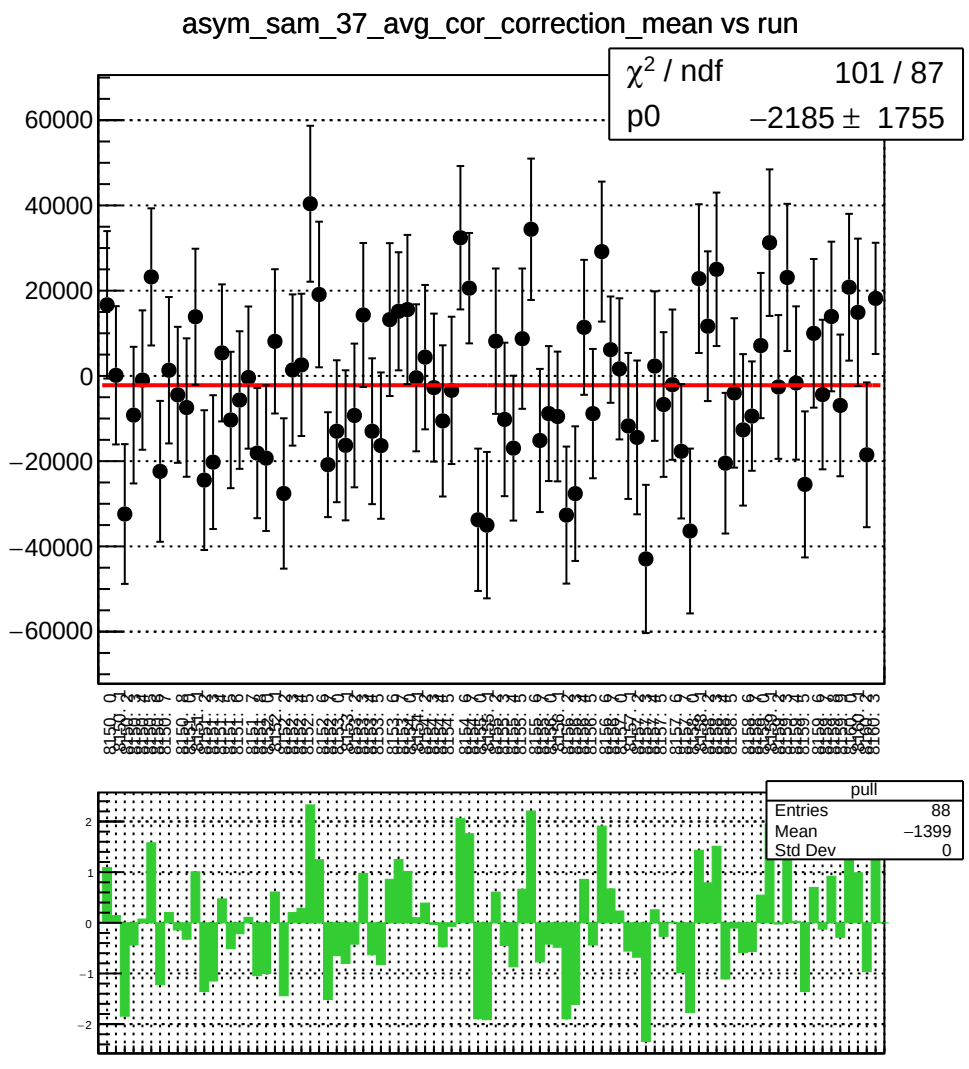

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.234e+04 / 87
p0 127 ± 0.09842
160
150
140
130
120
110
100

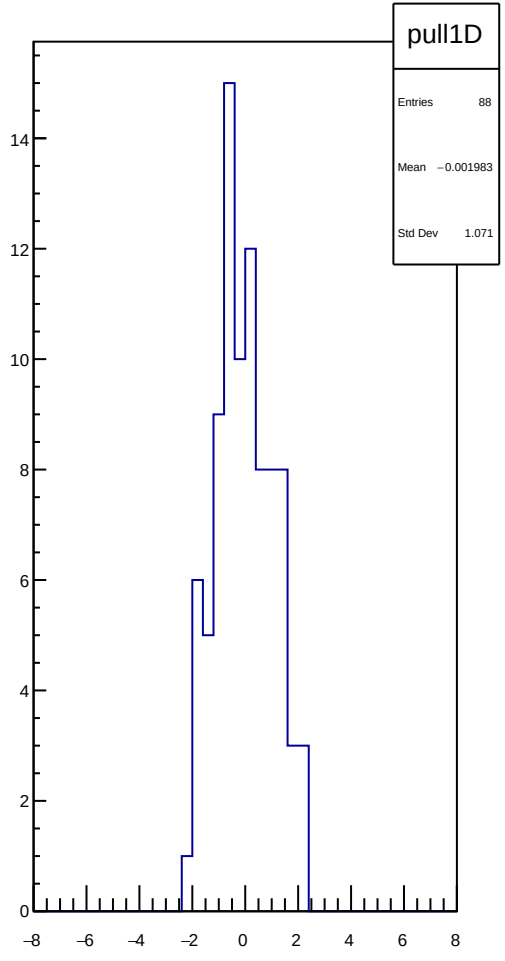

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 101 / 87
p0 −2185 ± 1755
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1398
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001983
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

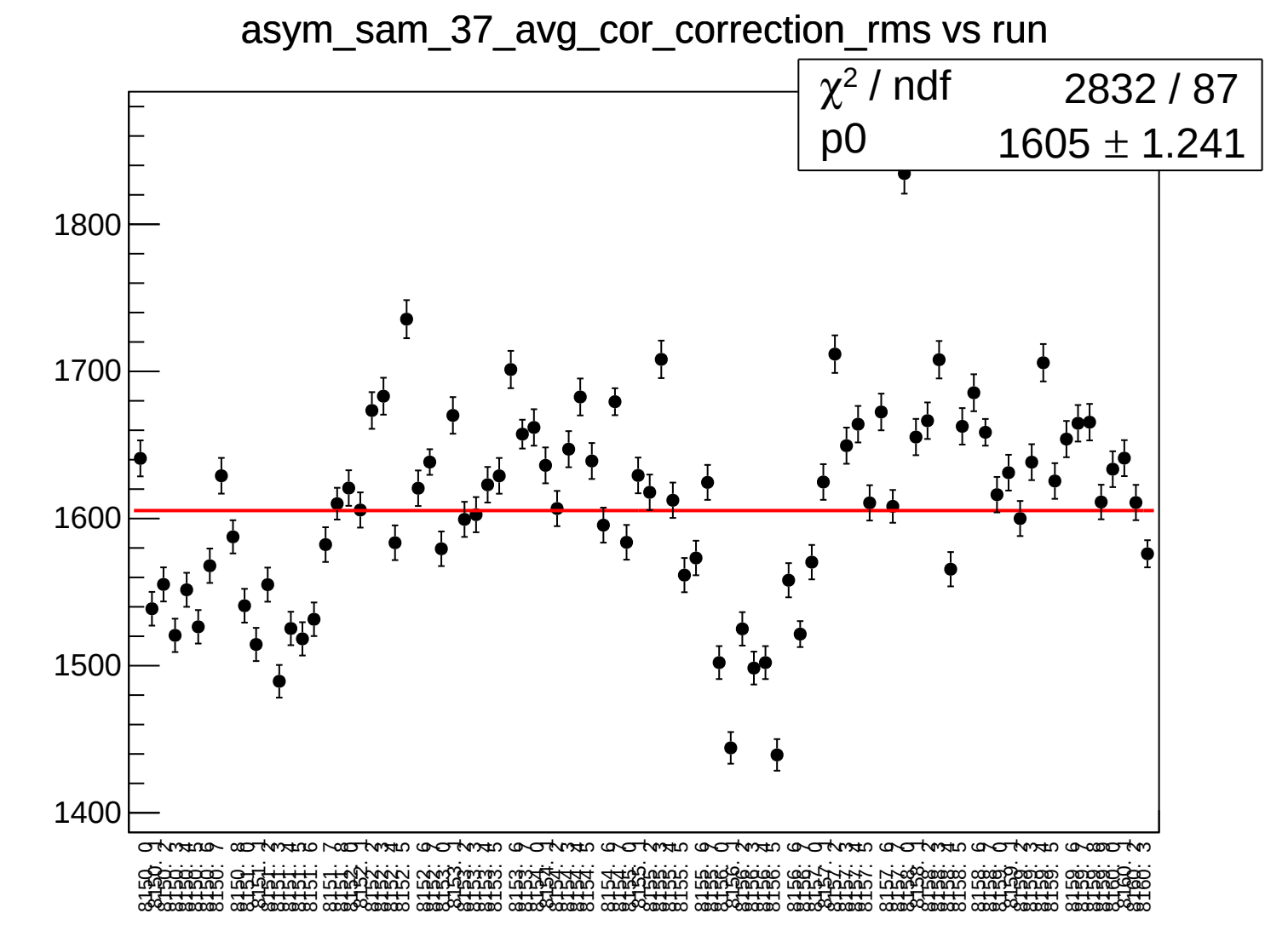

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 2832 / 87
p0 1605 ± 1.241
1800
1700
1600
1500
1400

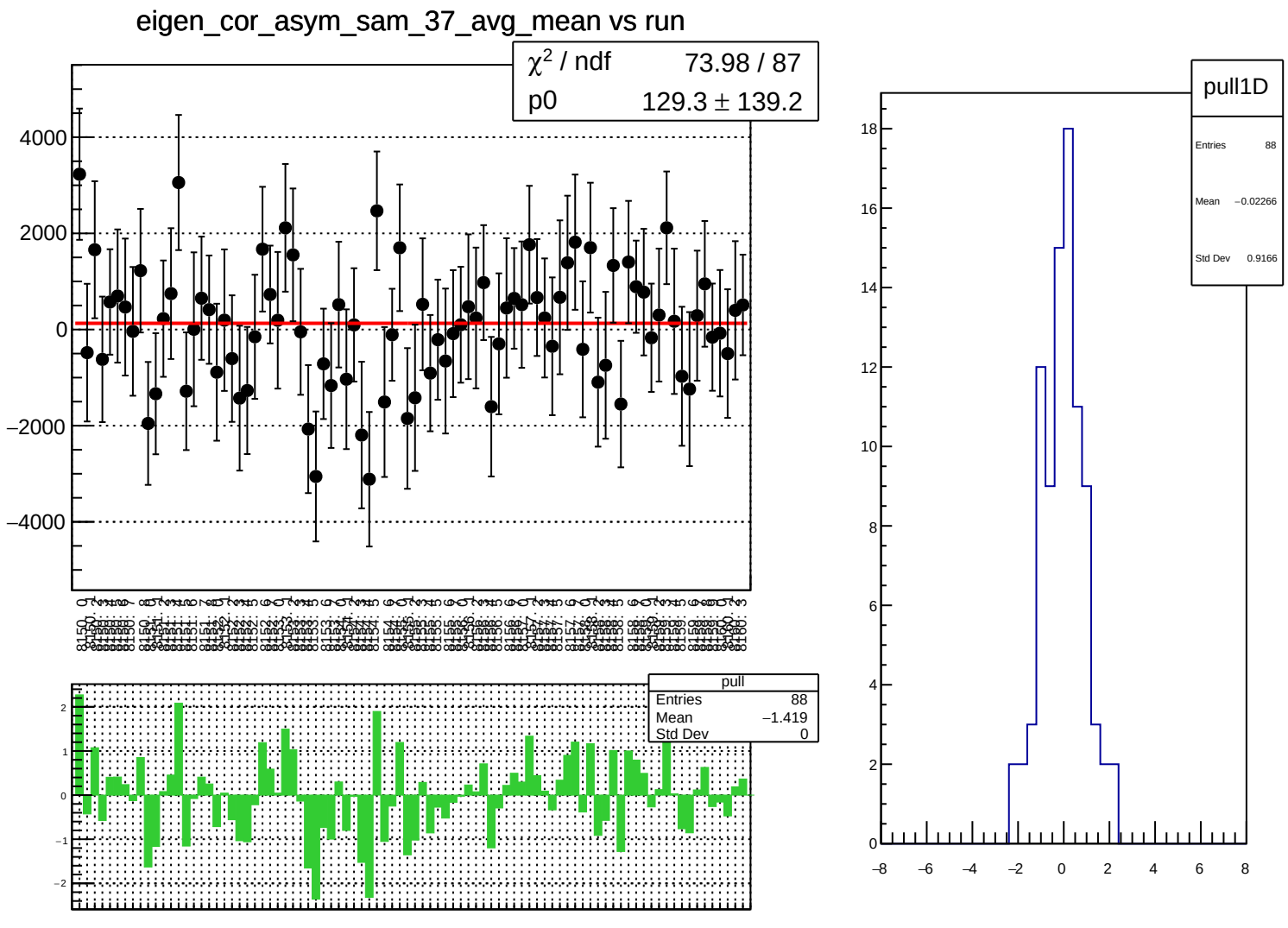

cor_asym_sam_37_avg_mean vs run
χ² / ndf 73.98 / 87
p0 129.3 ± 139.2
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −1.419
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.02266
Std Dev 0.9166
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

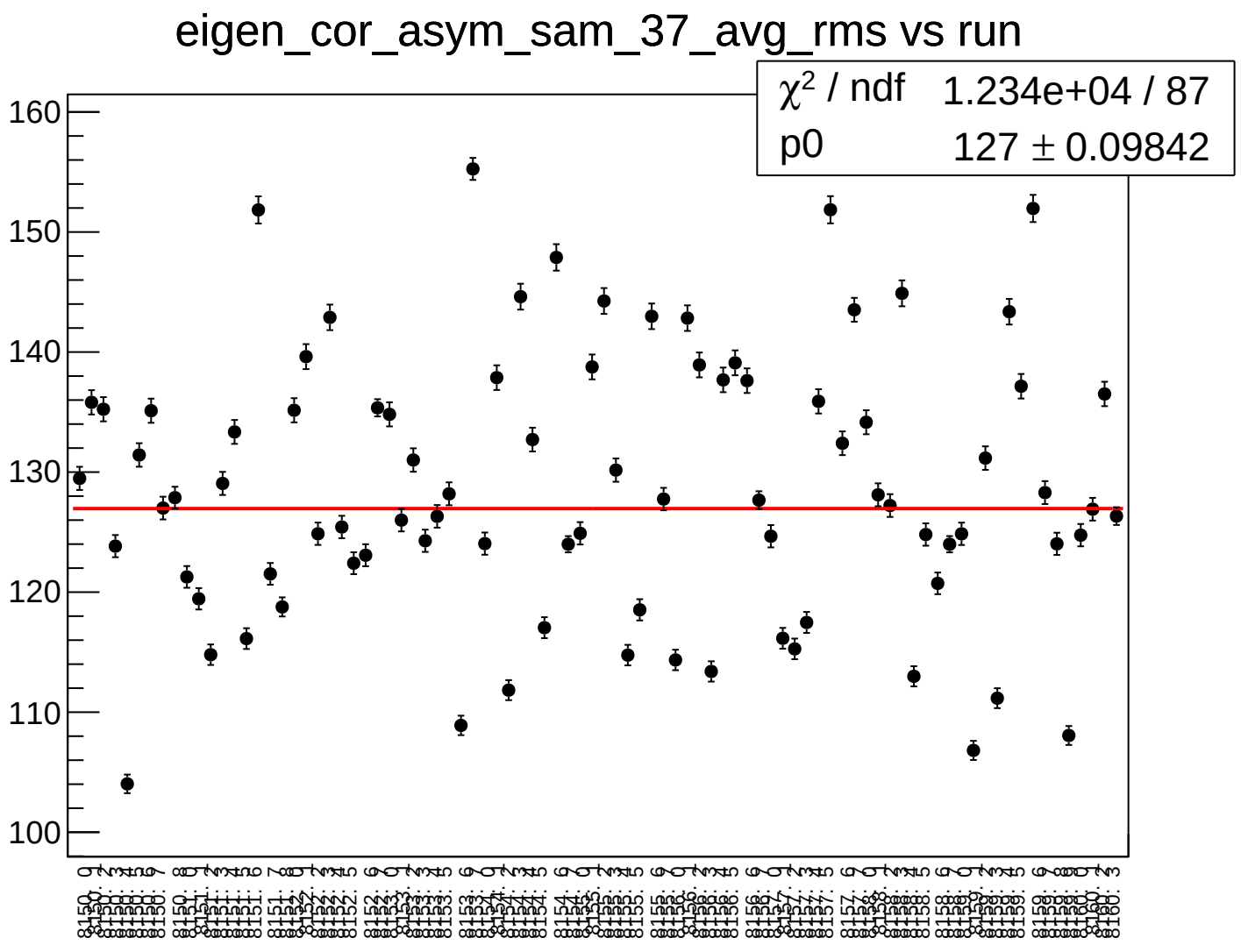

cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.234e+04 / 87
p0 127 ± 0.09842
160
150
140
130
120
110
100

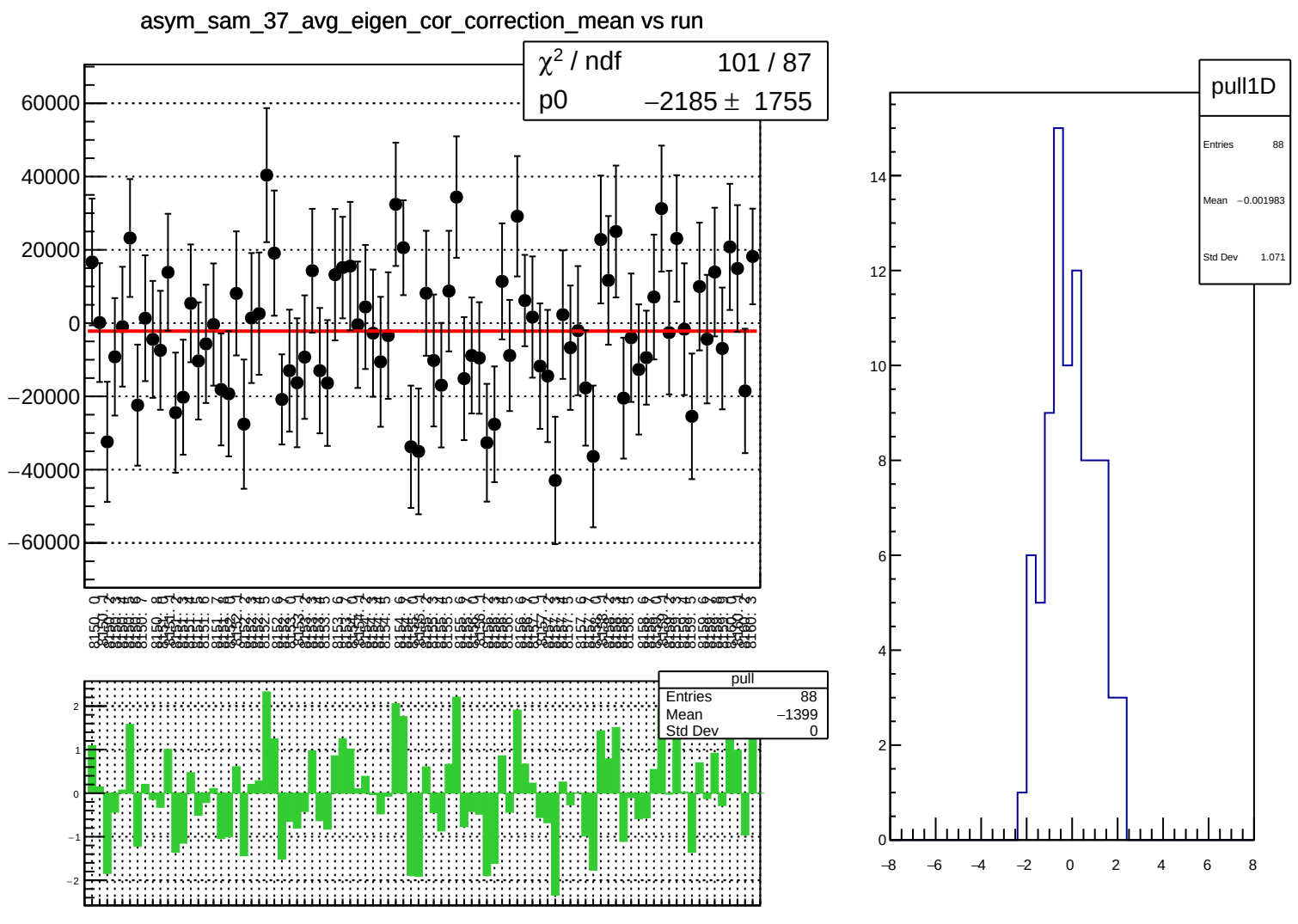

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 101 / 87
p0 −2185 ± 1755
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1399
Std Dev 0
2
1
0
−1
−2

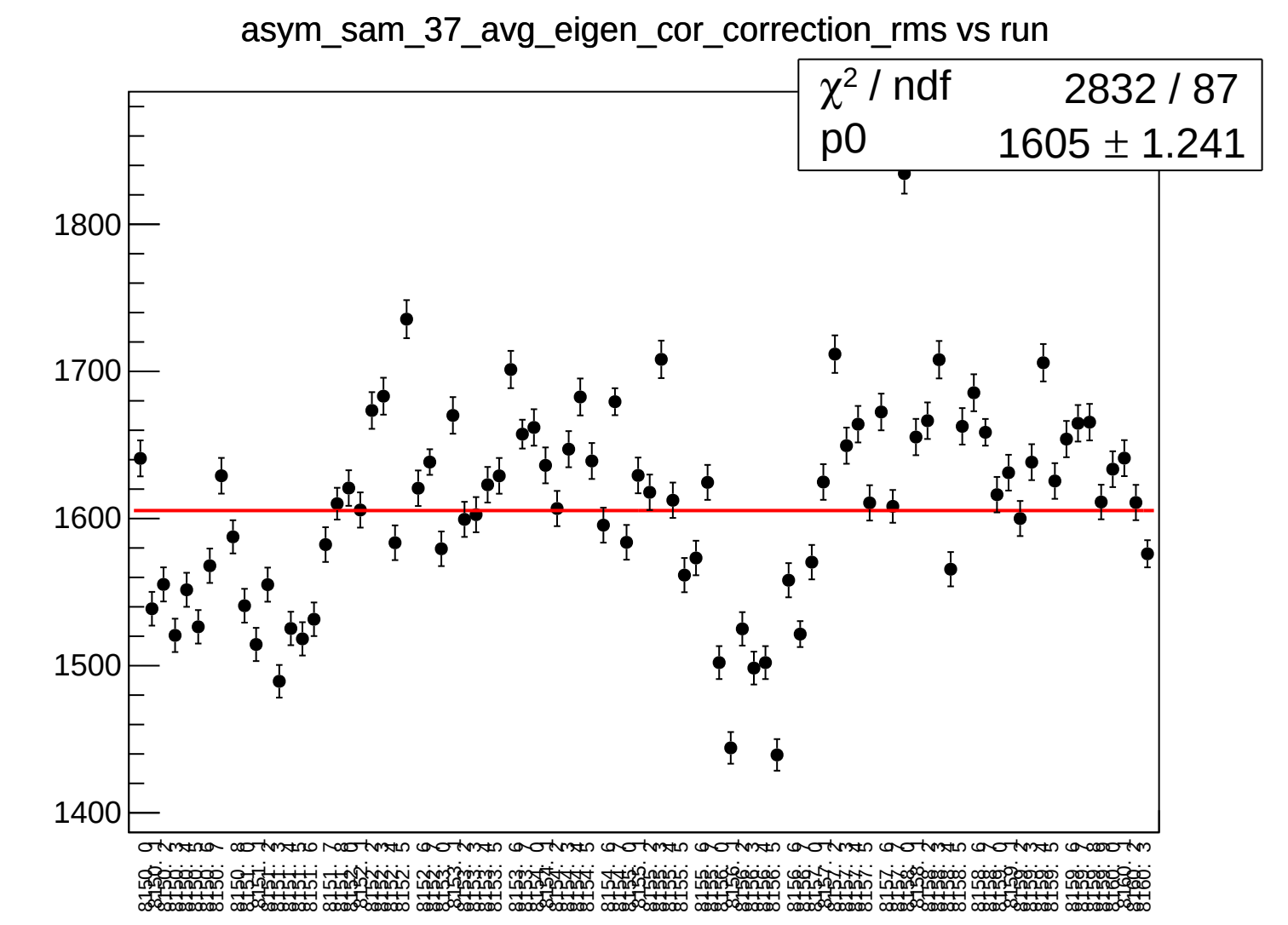

pull1D
Entries 88
Mean −0.001983
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

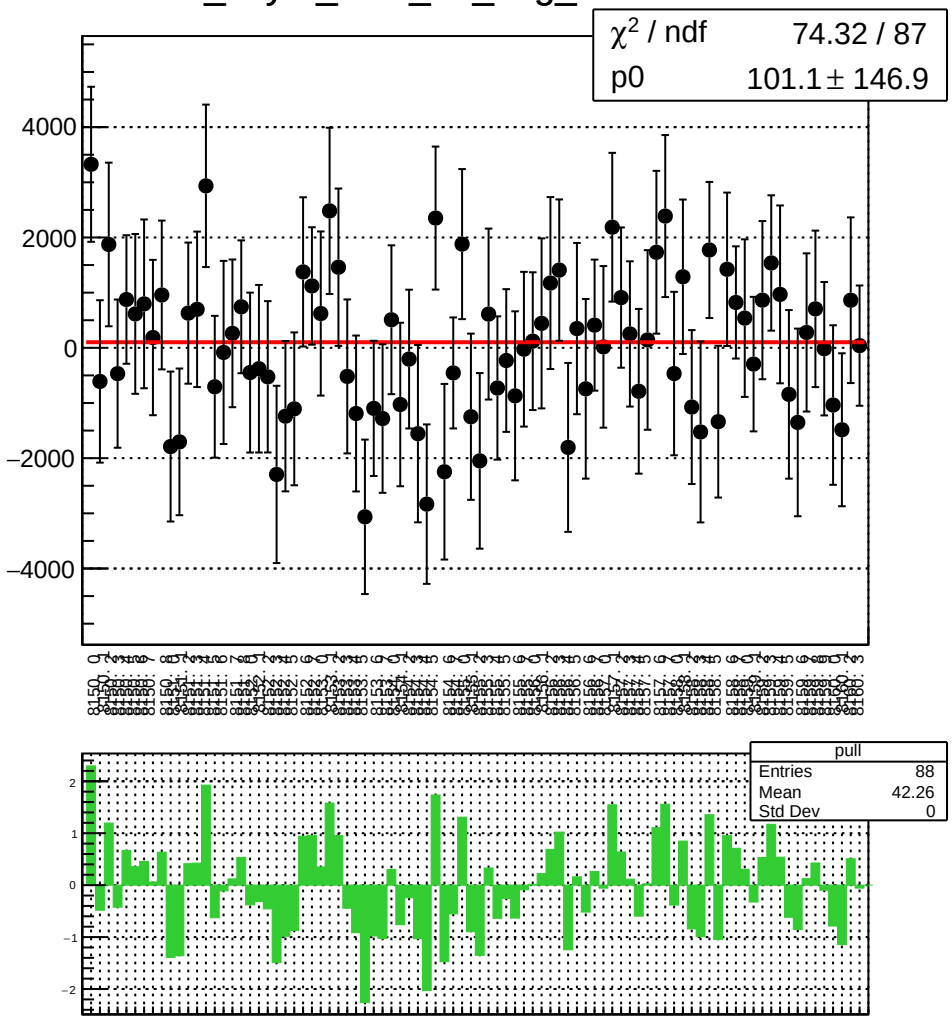

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 2832 / 87
p0 1605 ± 1.241
1800
1700
1600
1500
1400

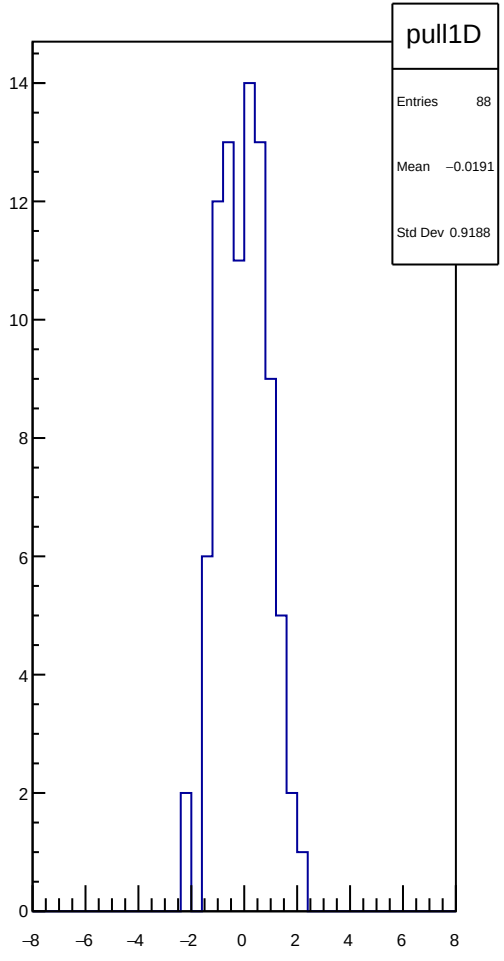

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 73.98 / 87
p0 129.3 ± 139.2
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −1.419
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.02266
Std Dev 0.9166
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

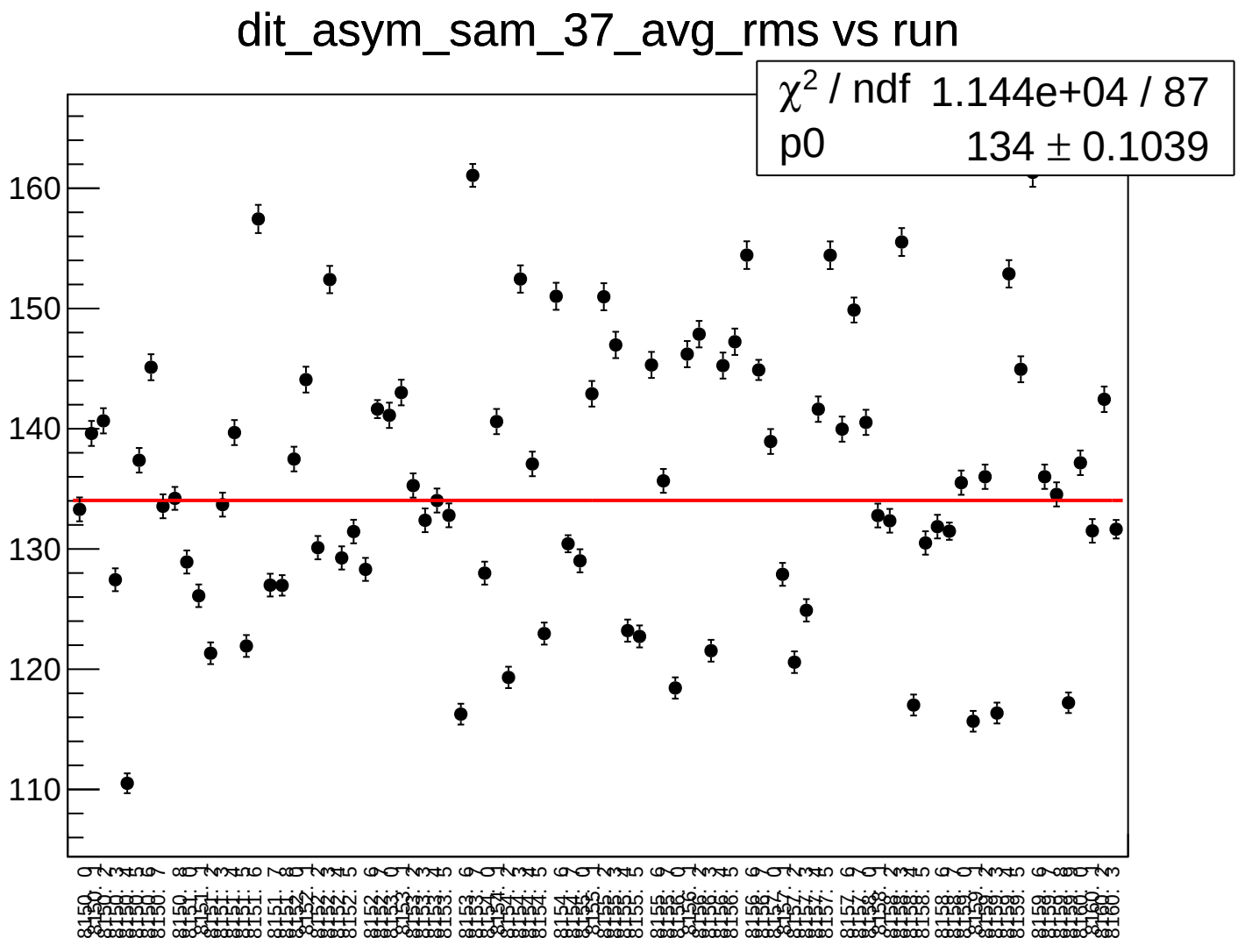

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.234e+04 / 87
p0 127 ± 0.09842
160
150
140
130
120
110
100

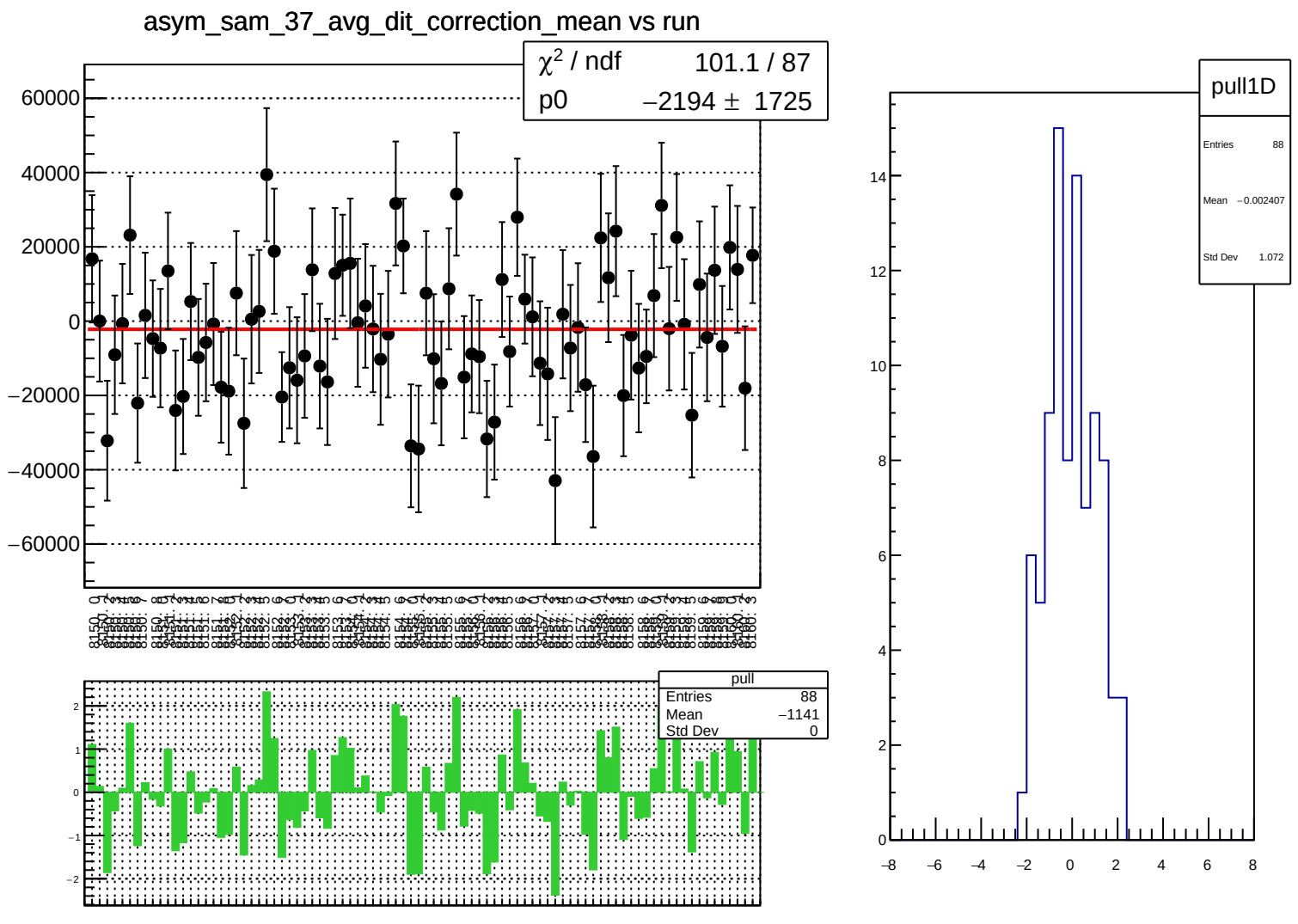

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 101 / 87
p0 −2185 ± 1755
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1399
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001983
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

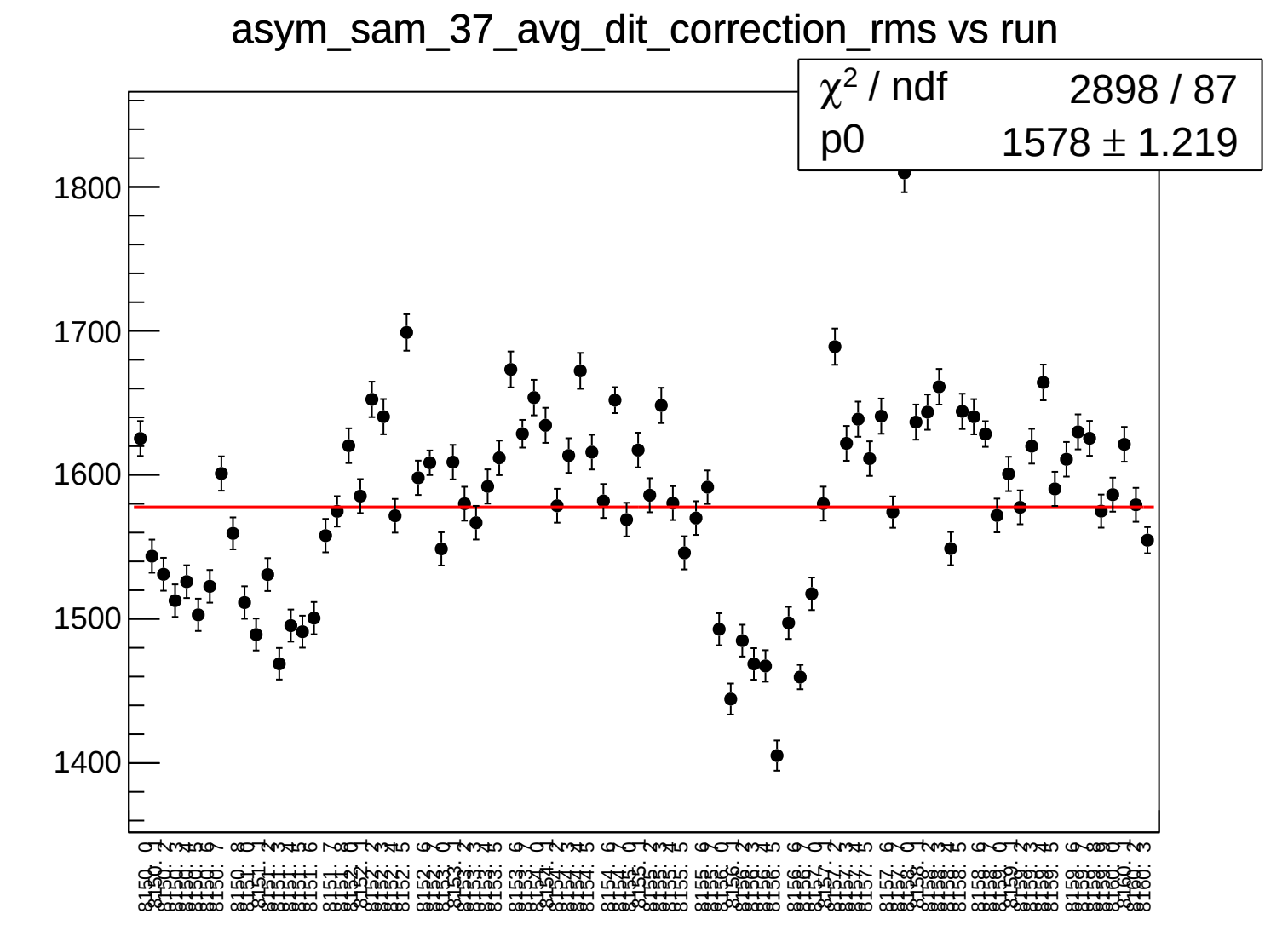

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 2832 / 87
p0 1605 ± 1.241
1800
1700
1600
1500
1400

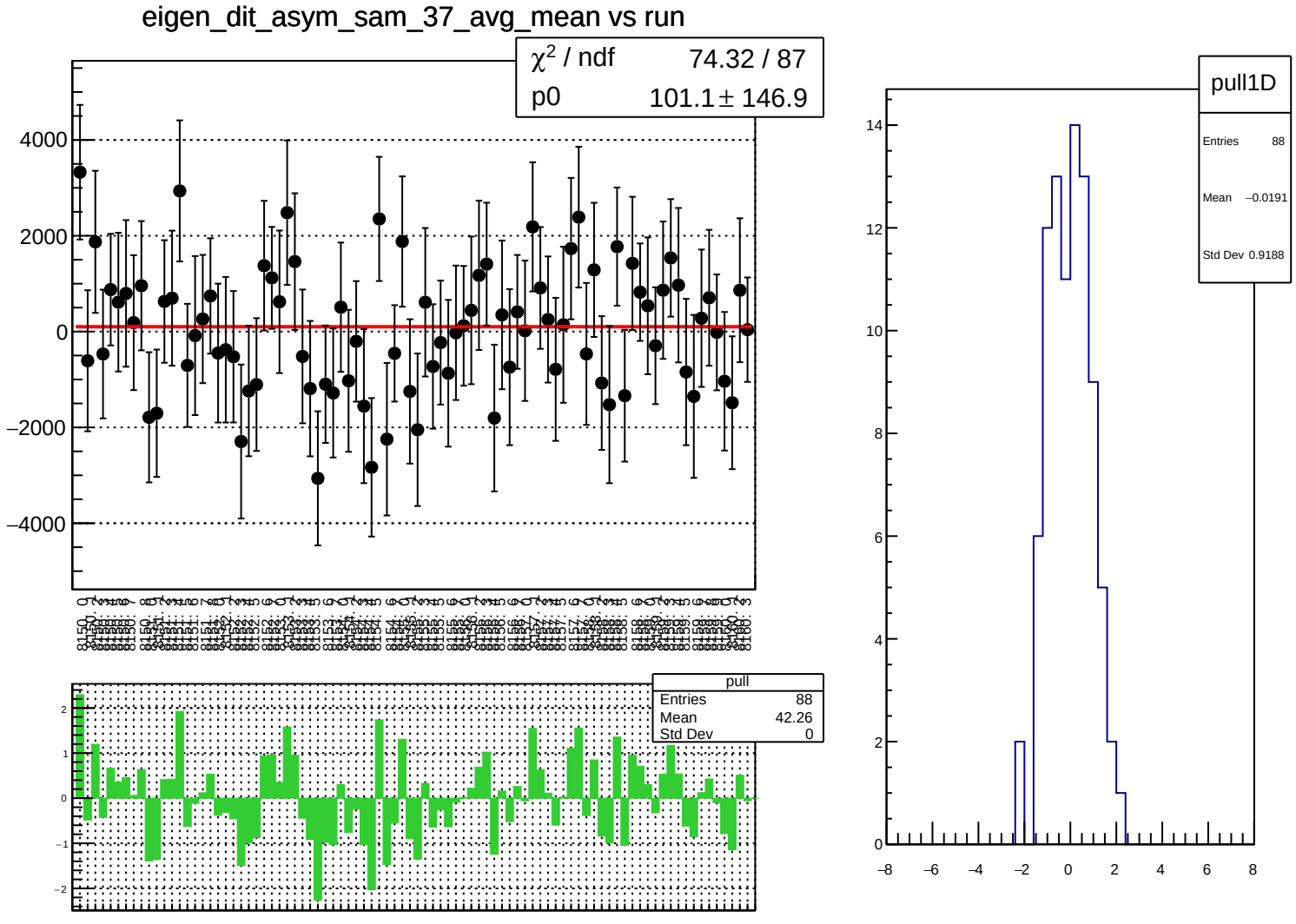

dit_asym_sam_37_avg_mean vs run
χ² / ndf 74.32 / 87
p0 101.1 ± 146.9
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 42.26
Std Dev 0
2
1
0
−1
−2

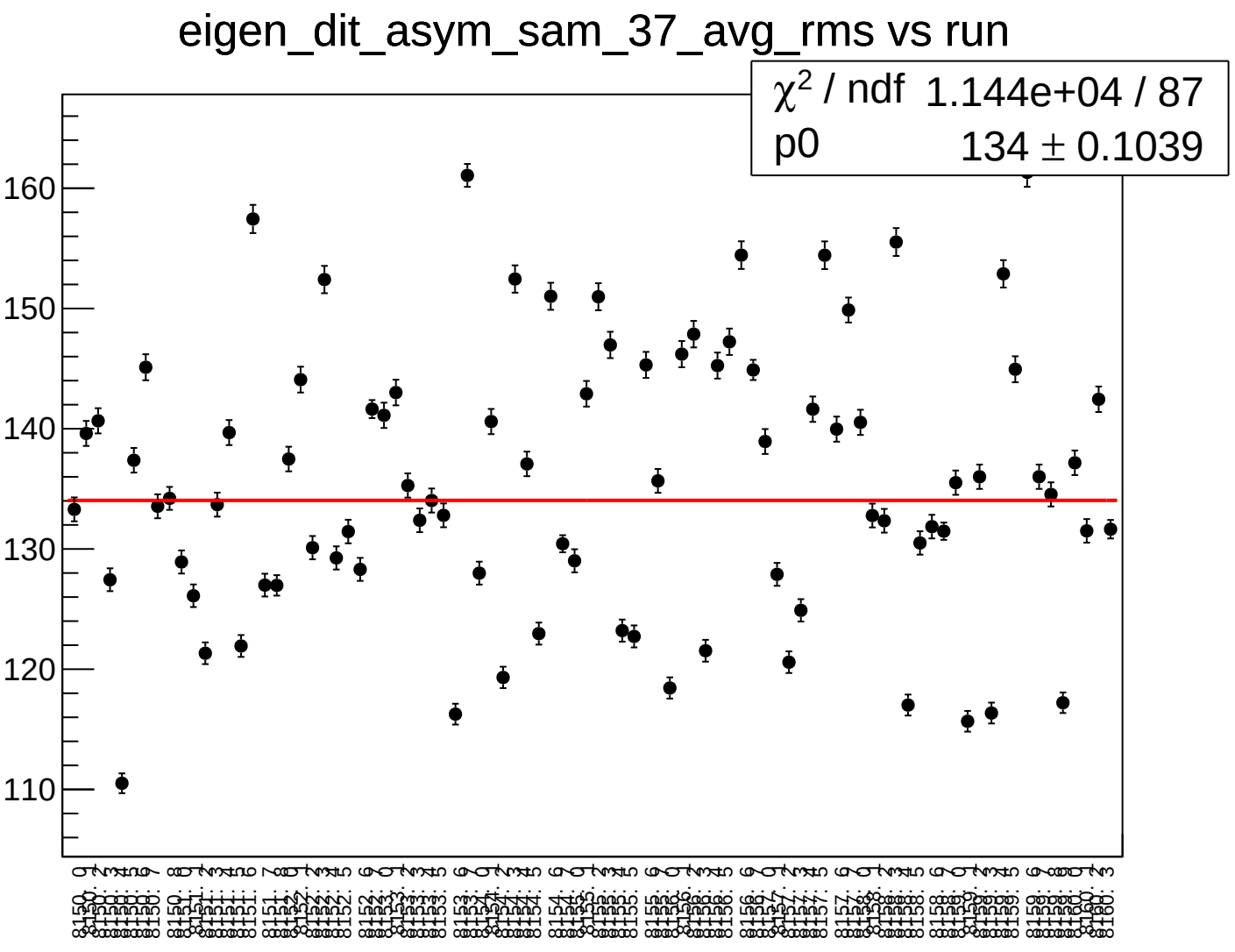

pull1D
Entries 88
Mean −0.0191
Std Dev 0.9188
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

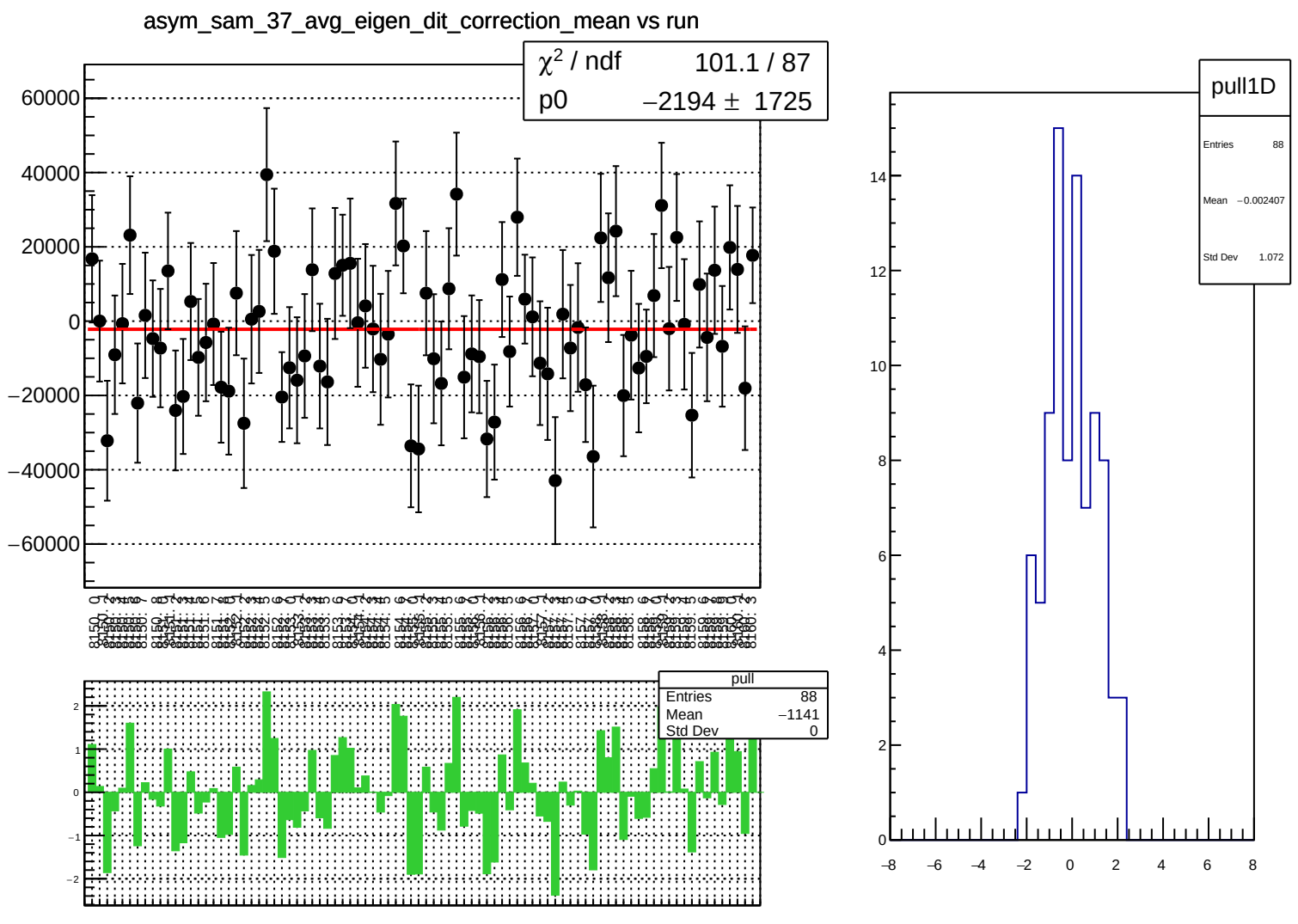

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.144e+04 / 87
p0 134 ± 0.1039
160
150
140
130
120
110

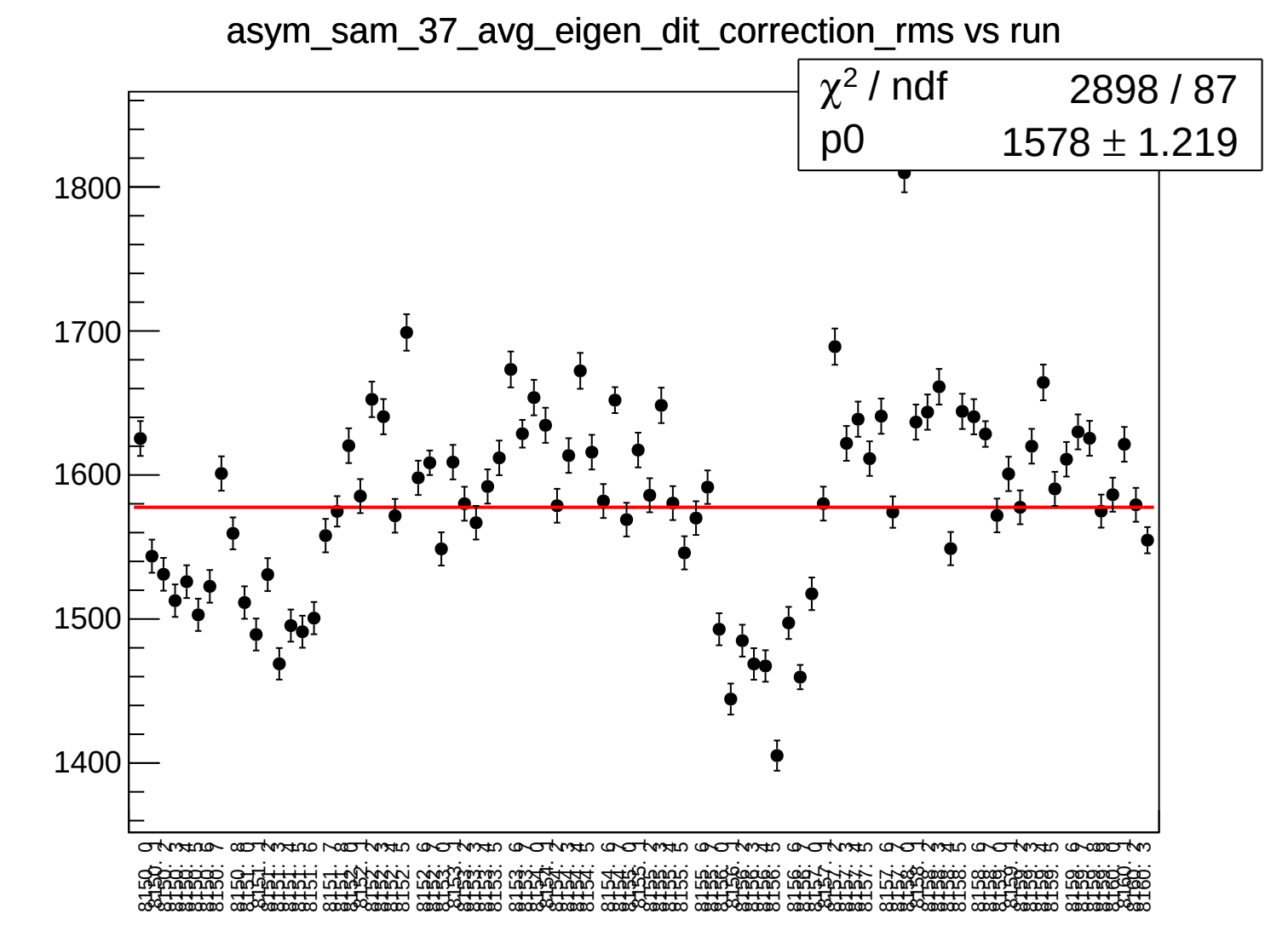

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 101.1 / 87
p0 −2194 ± 1725
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1141
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002407
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

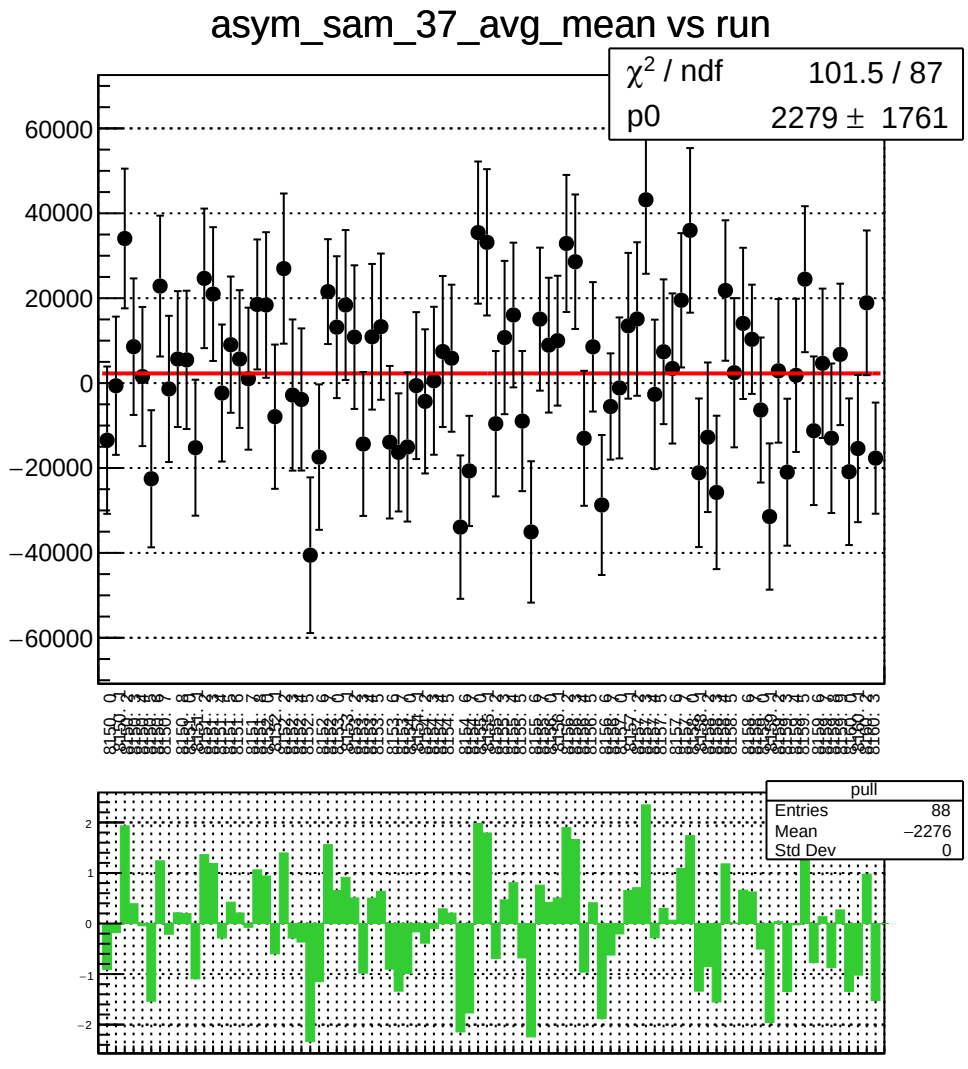

asym_sam_37_avg_dit_correction_rms vs run
χ^2 / ndf 2898 / 87
p0 1578 ± 1.219
1800
1700
1600
1500
1400

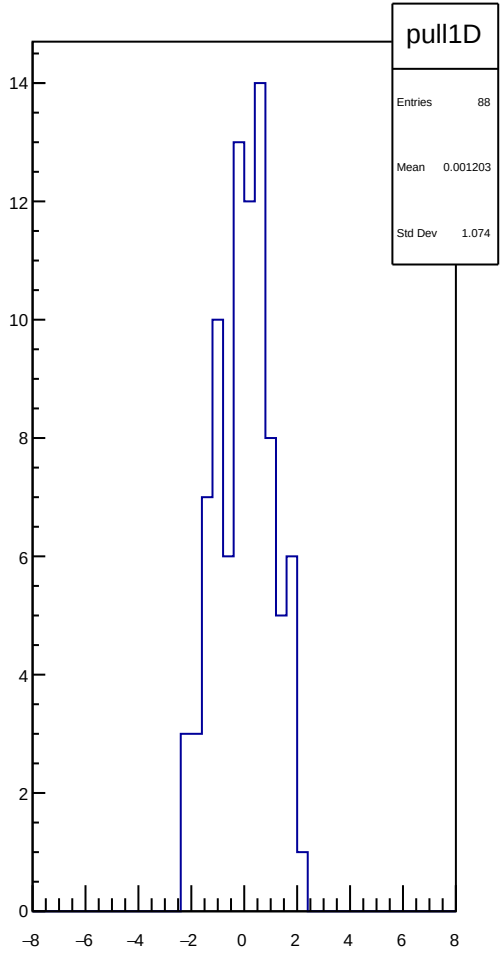

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 74.32 / 87
p0 101.1 ± 146.9
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 42.26
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0191
Std Dev 0.9188
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

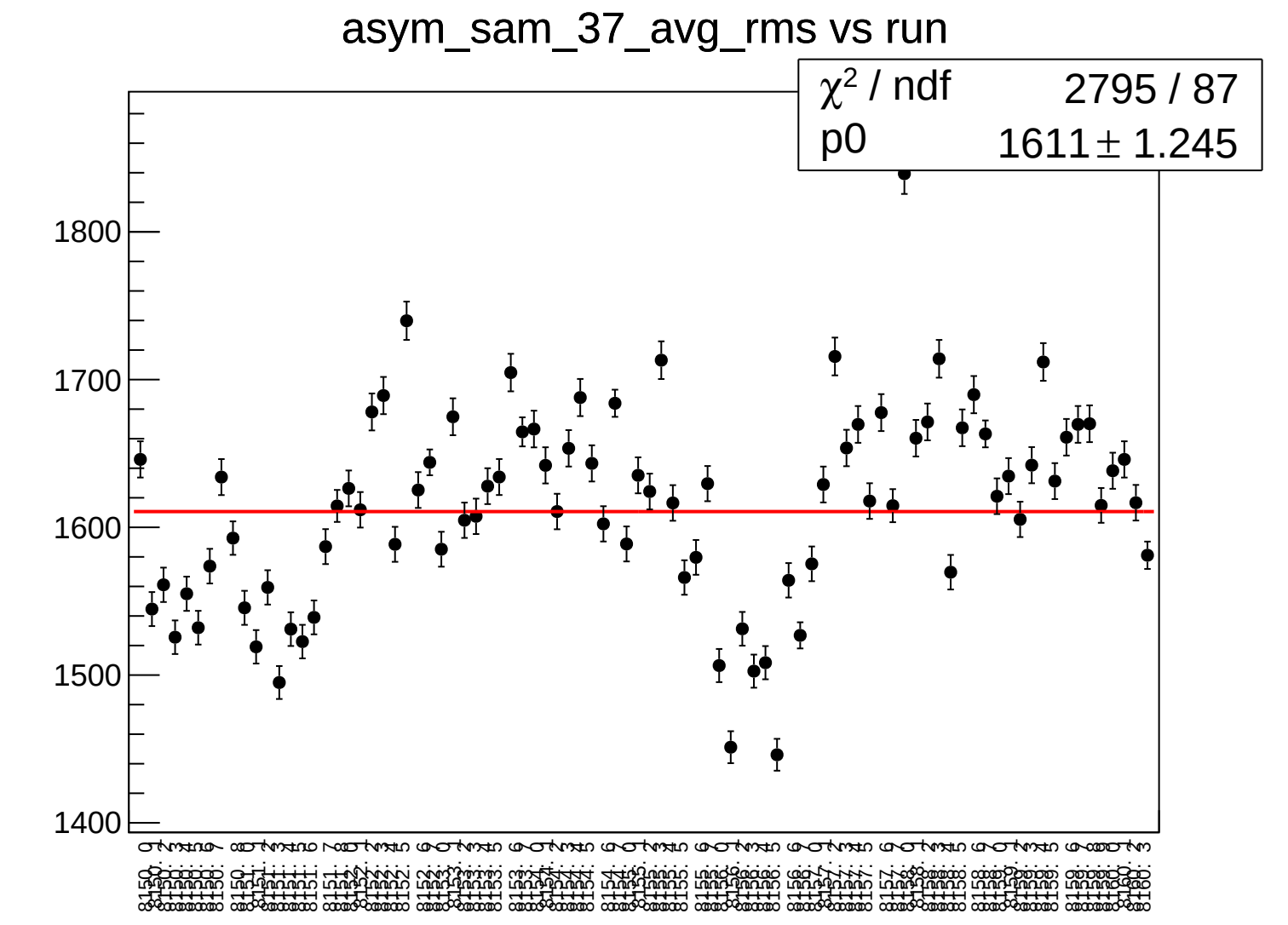

eigen_dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.144e+04 / 87
p0 134 ± 0.1039
160
150
140
130
120
110

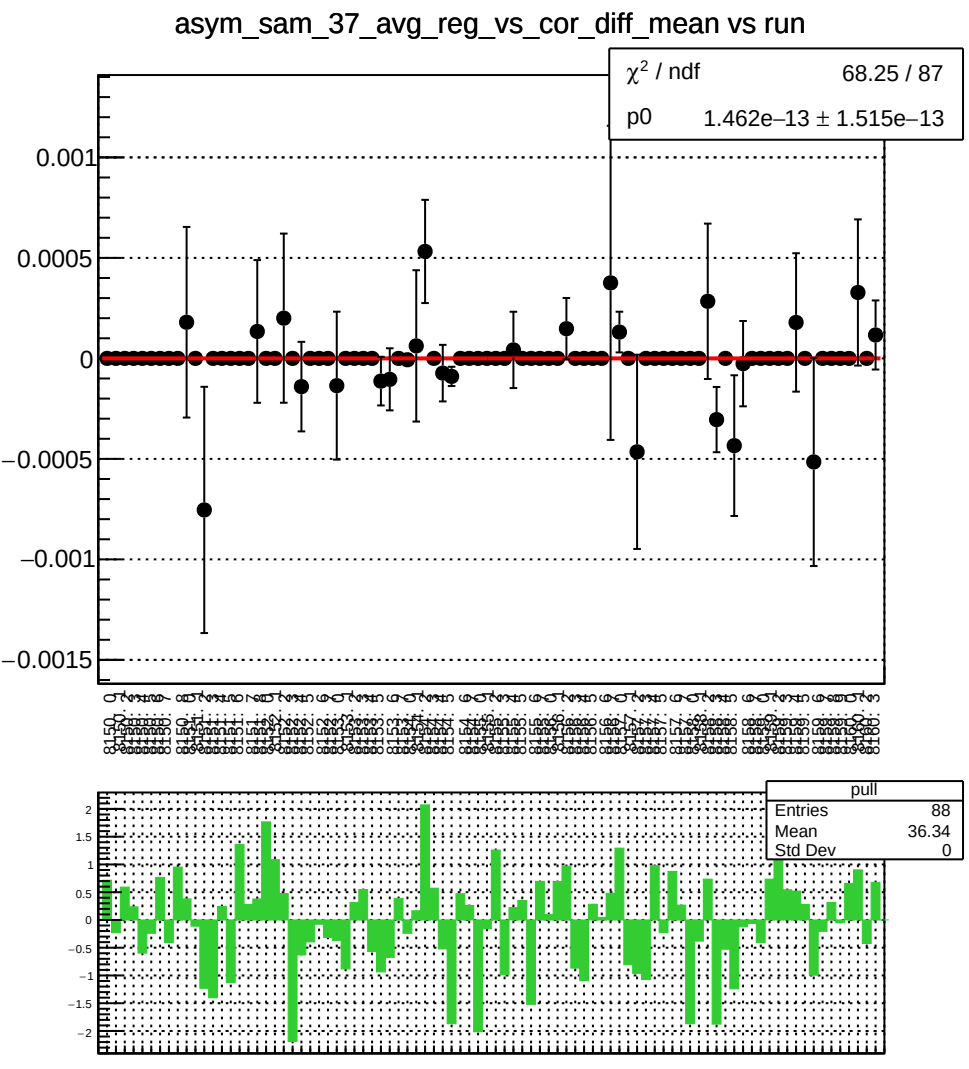

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 101.1 / 87
p0 −2194 ± 1725
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1141
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002407
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

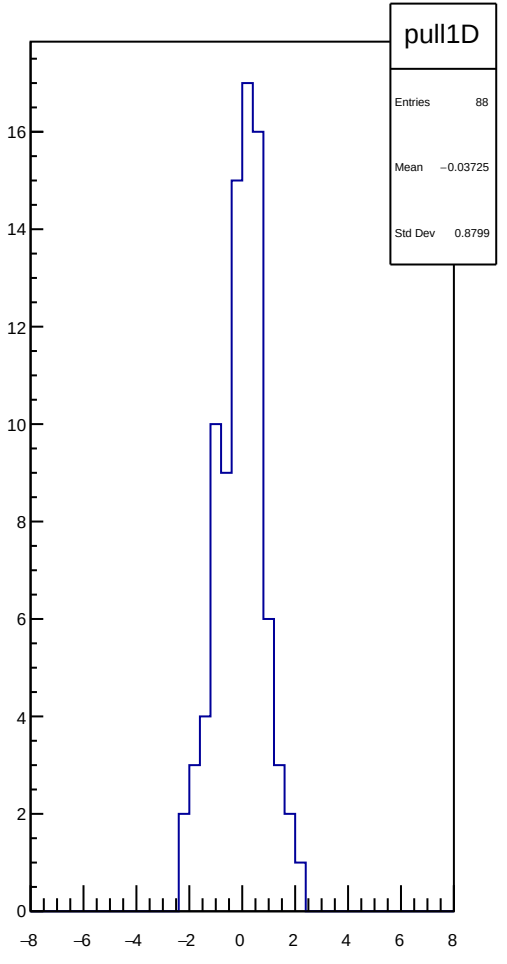

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 2898 / 87
p0 1578 ± 1.219
1800
1700
1600
1500
1400

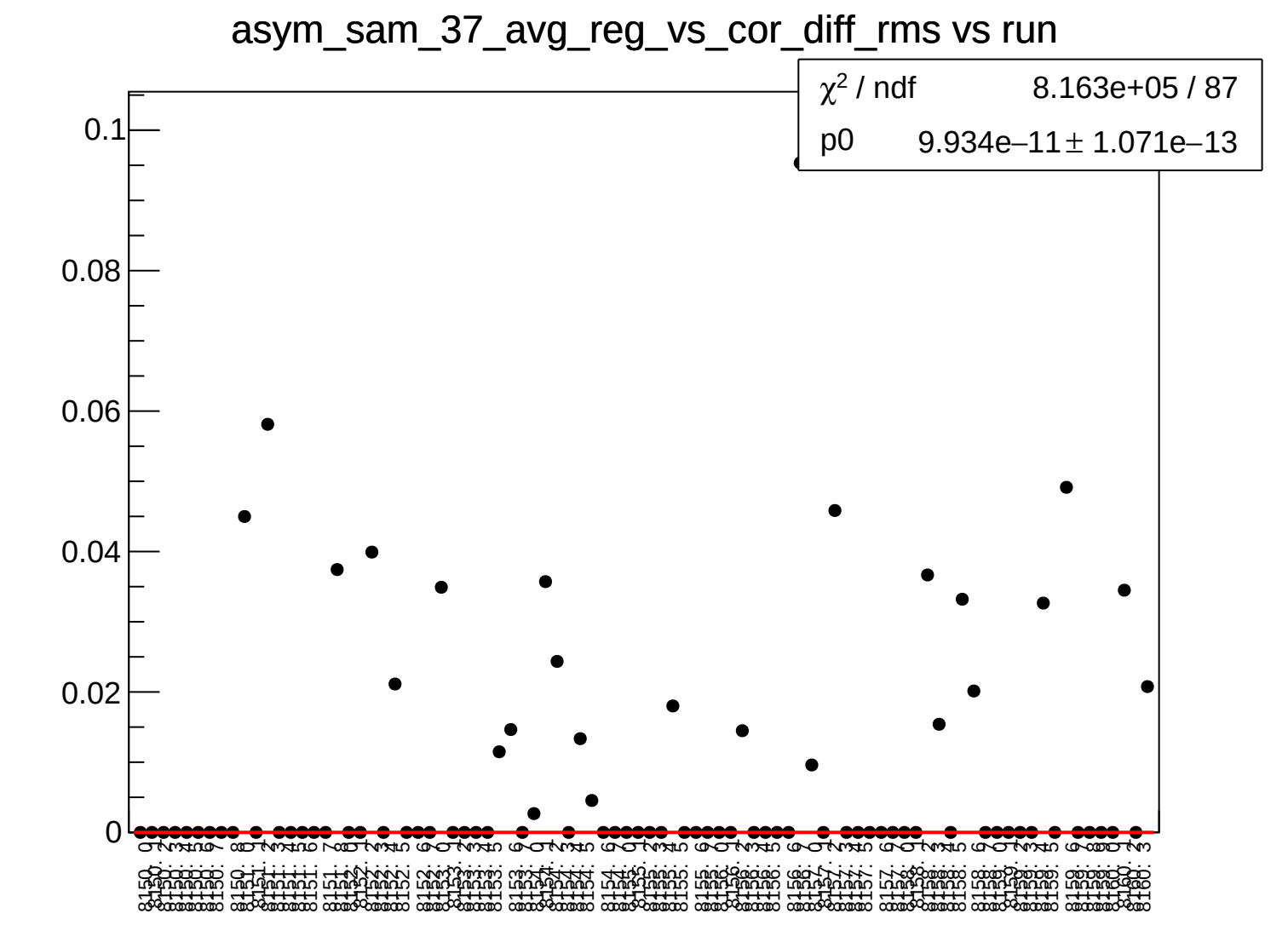

asym_sam_37_avg_mean vs run
χ² / ndf 101.5 / 87
p0 2279 ± 1761
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −2276
Std Dev 0
2
1
0
−1
−2

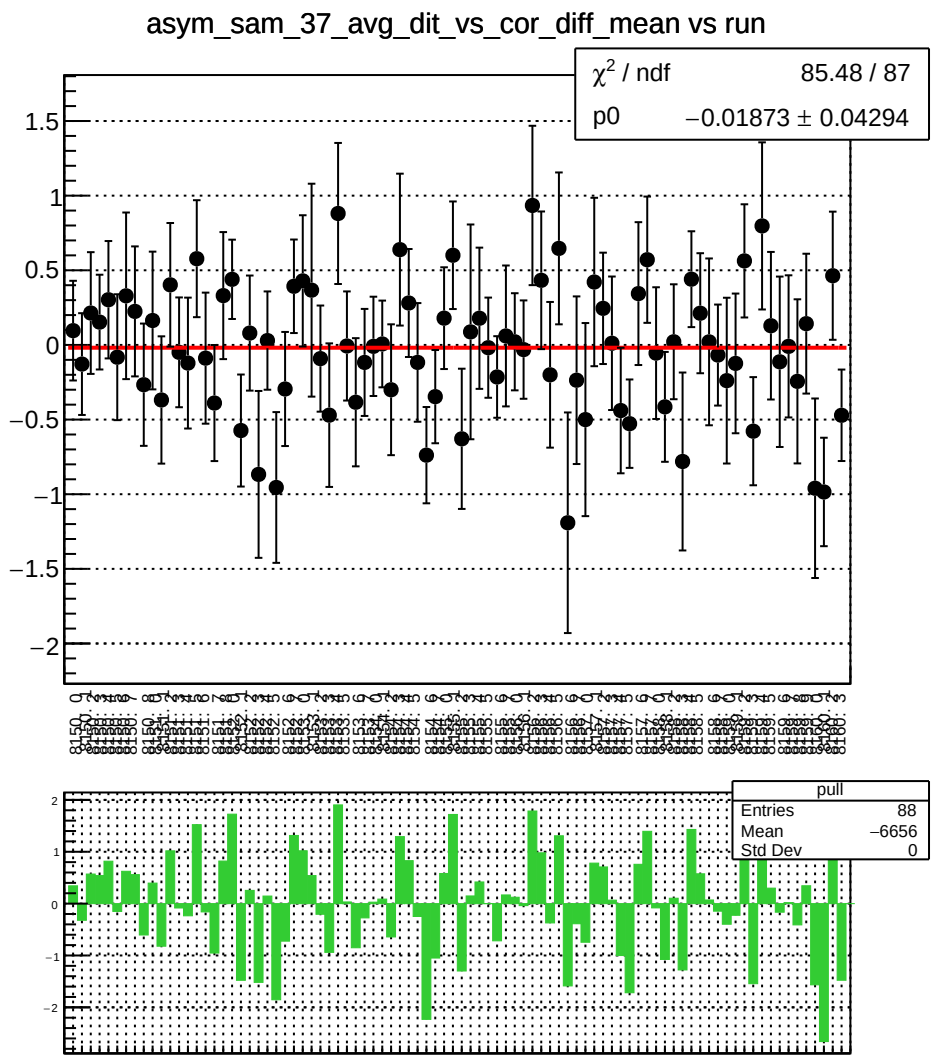

pull1D
Entries 88
Mean 0.001203
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

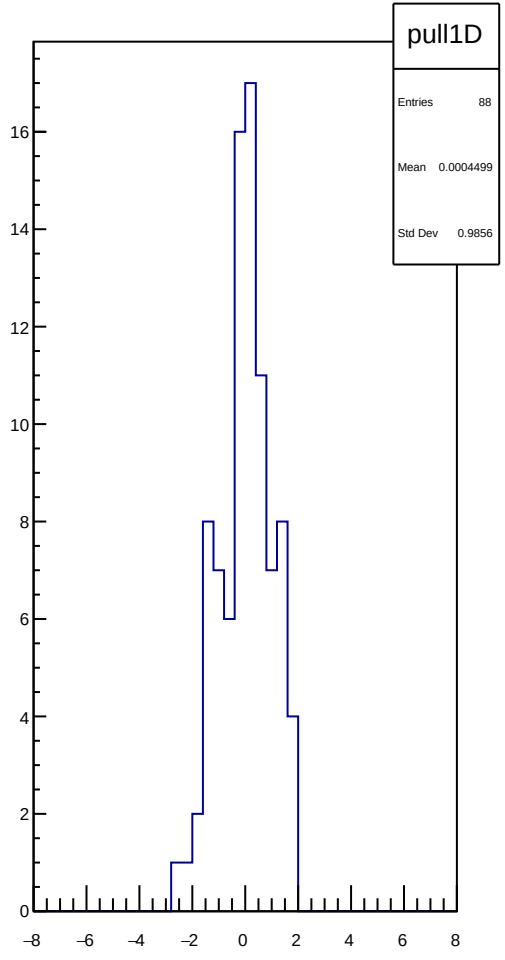

asym_sam_37_avg_rms vs run
χ² / ndf 2795 / 87
p0 1611 ± 1.245
1800
1700
1600
1500
1400

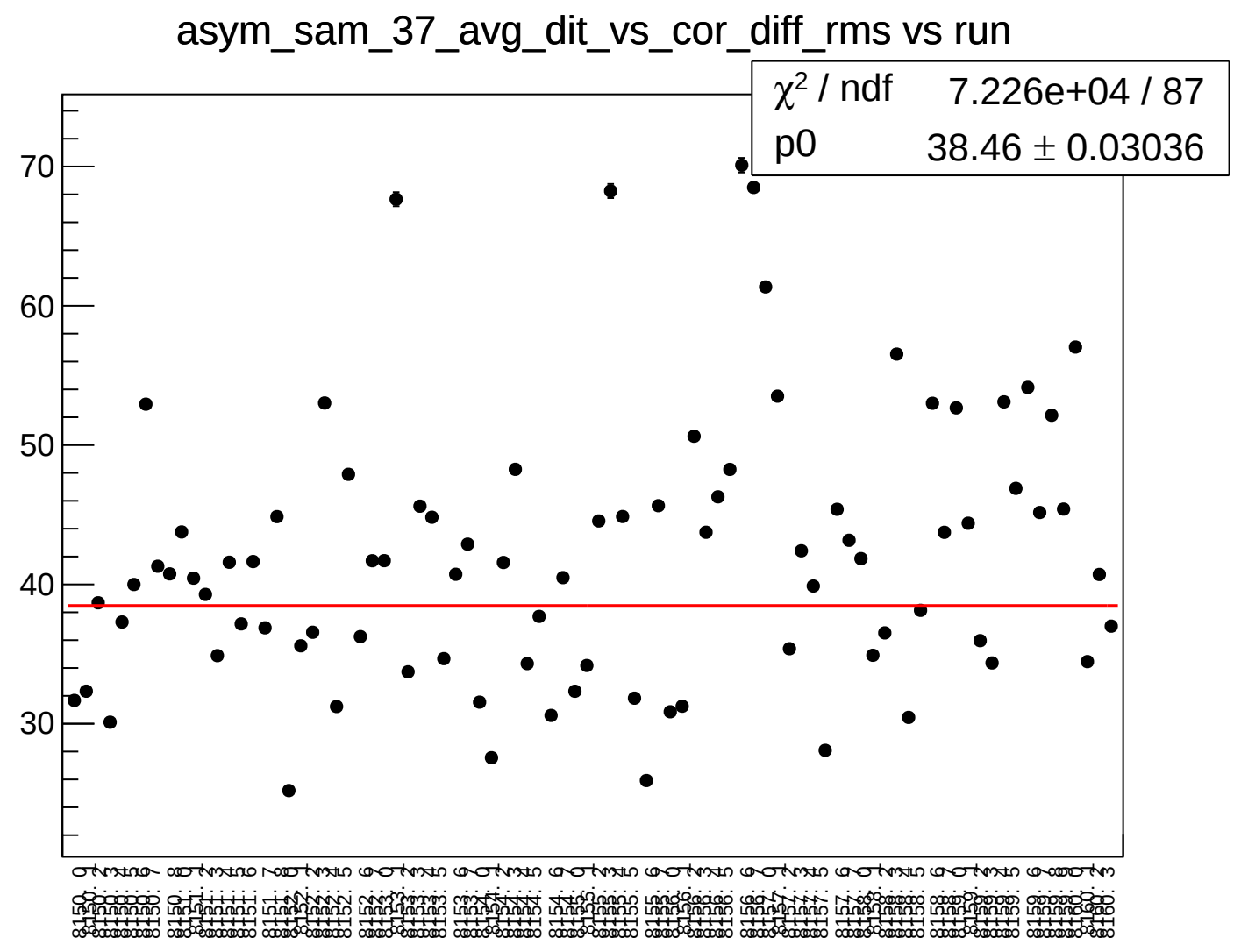

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 68.25 / 87
p0 1.462e−13 ± 1.515e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 36.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

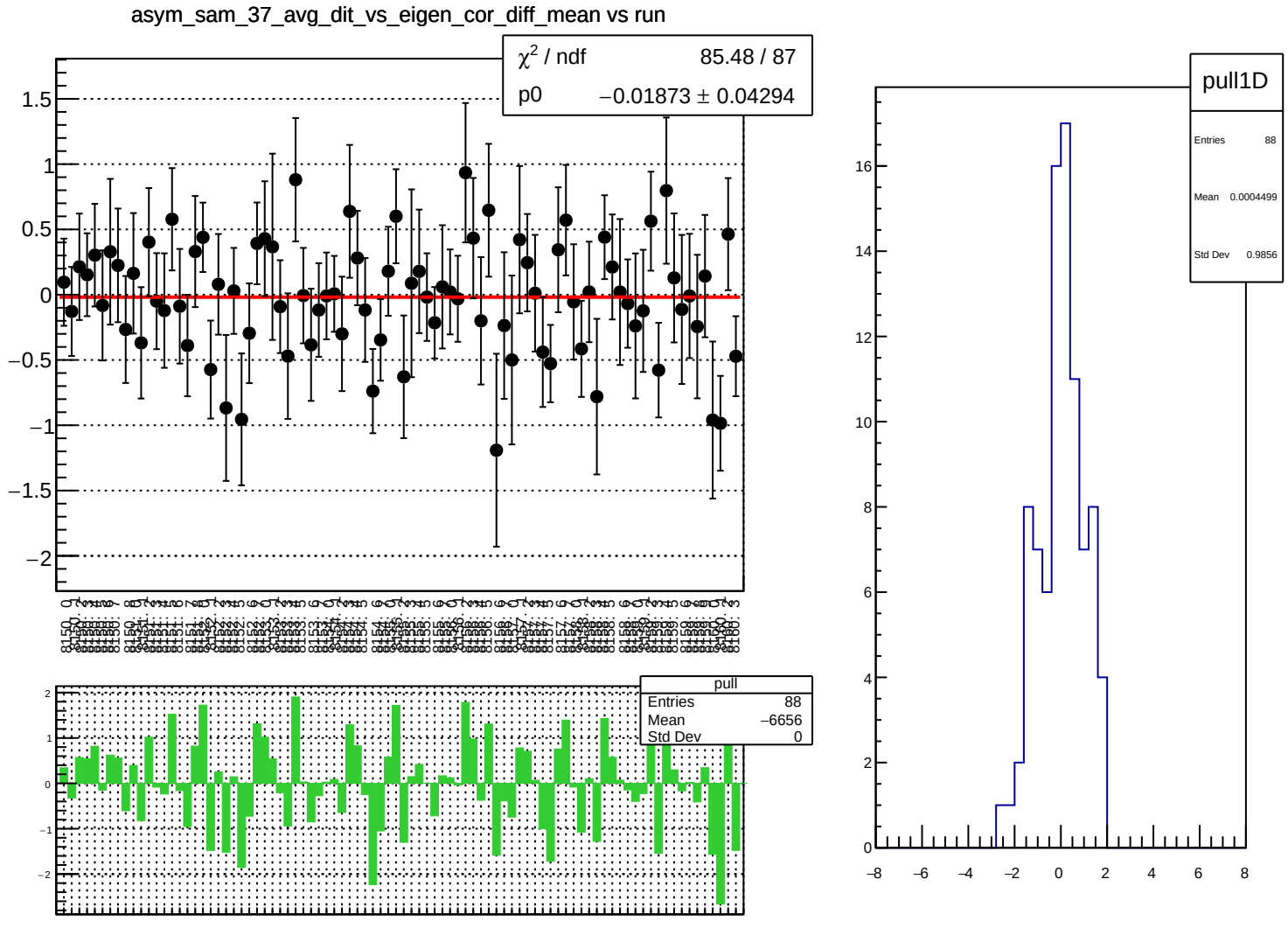

pull1D
Entries 88
Mean −0.03725
Std Dev 0.8799
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

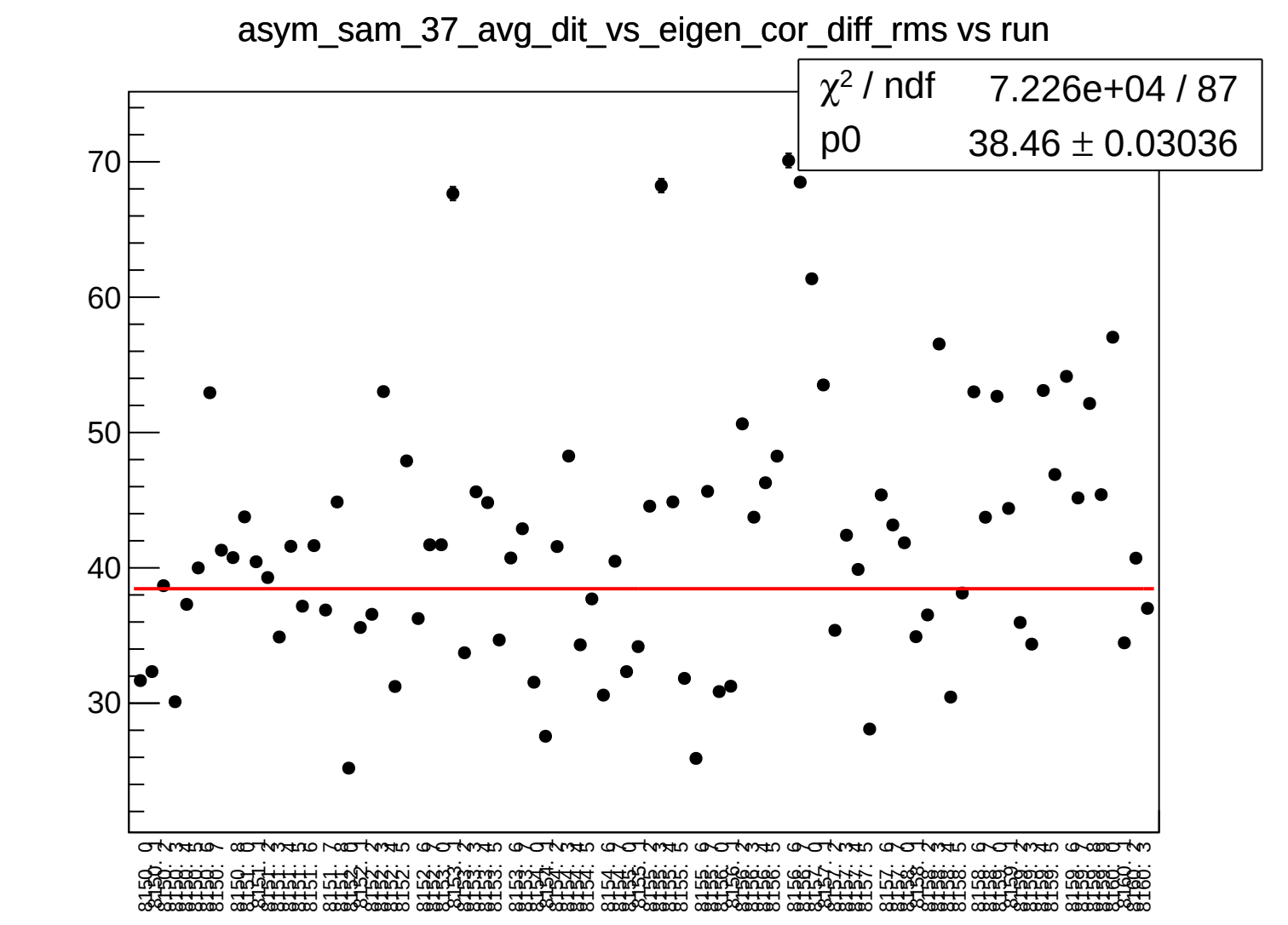

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.163e+05 / 87
p0 9.934e−11 ± 1.071e−13
0.1
0.08
0.06
0.04
0.02
0

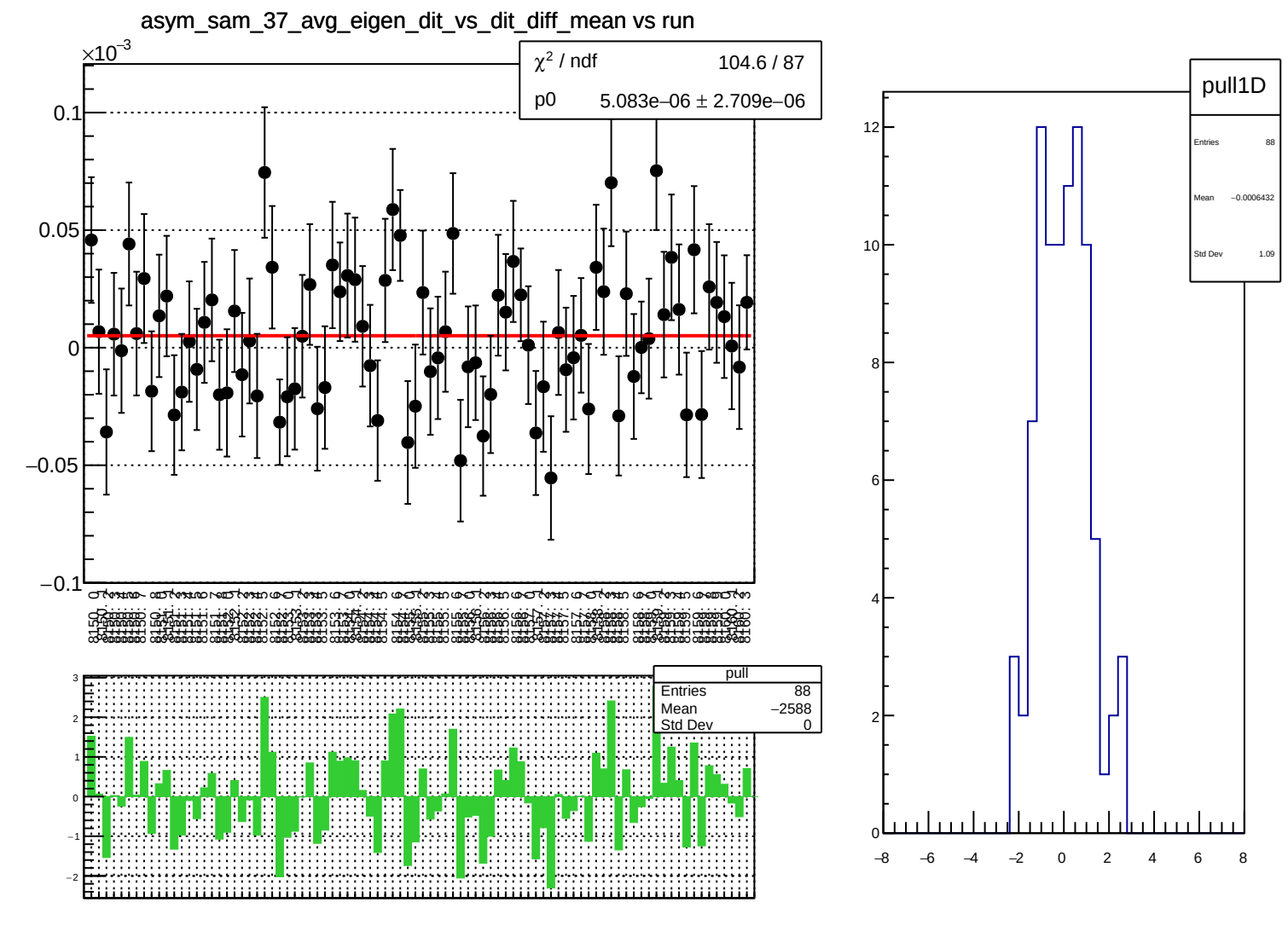

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.48 / 87
p0 −0.01873 ± 0.04294
pull
Entries 88
Mean −6656
Std Dev 0

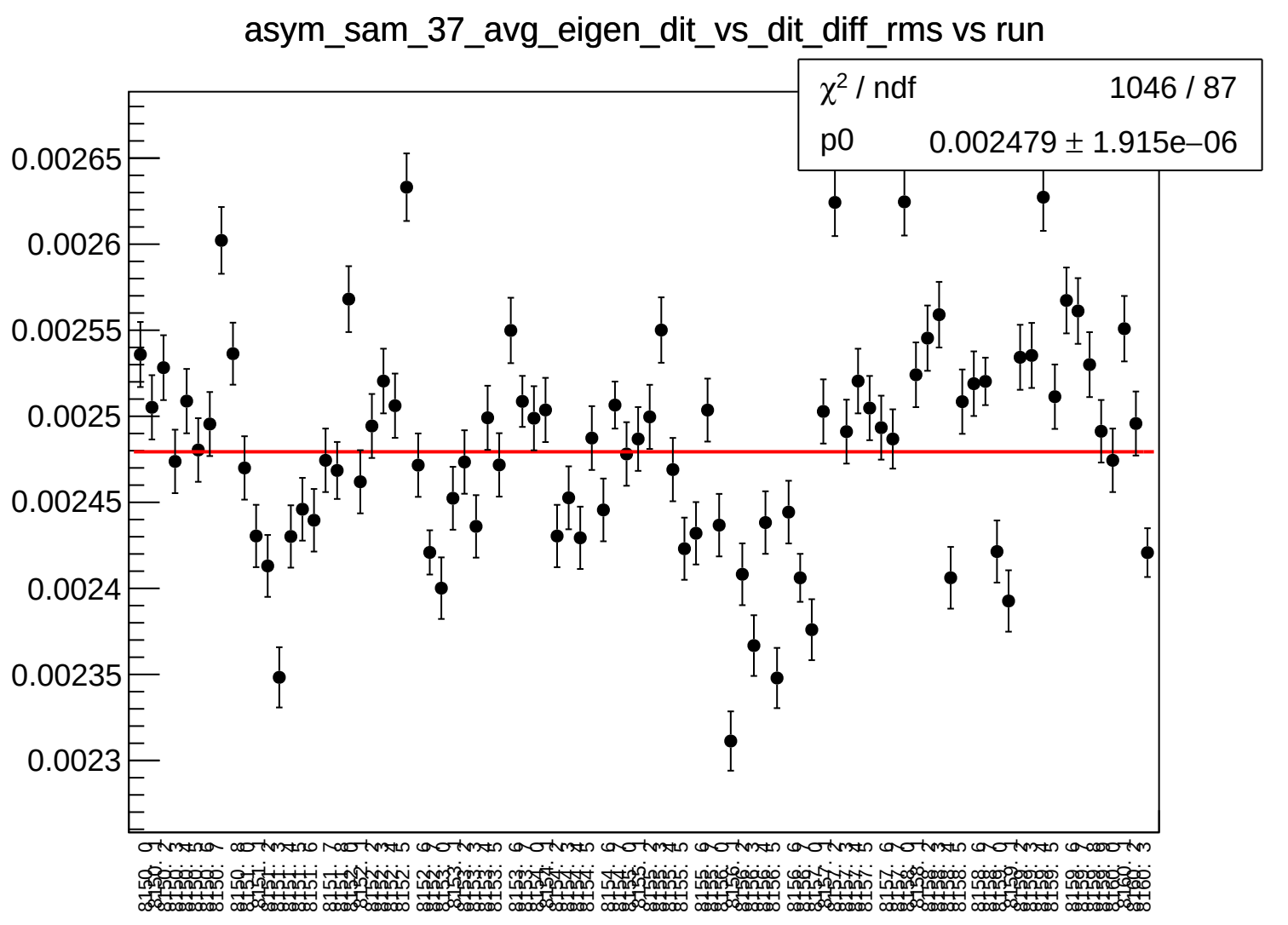

pull1D
Entries 88
Mean 0.0004499
Std Dev 0.9856

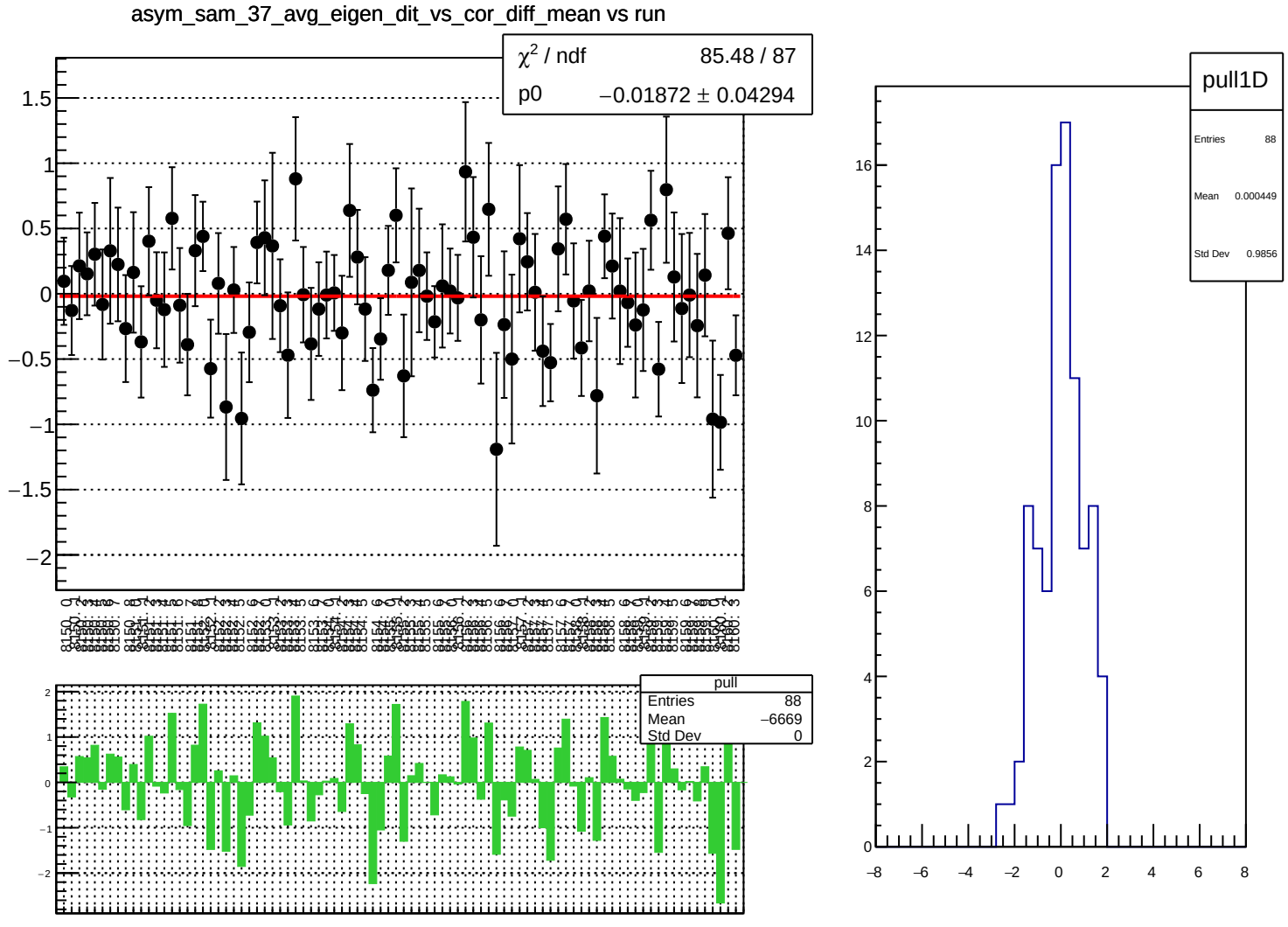

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.226e+04 / 87
p0 38.46 ± 0.03036
70
60
50
40
30

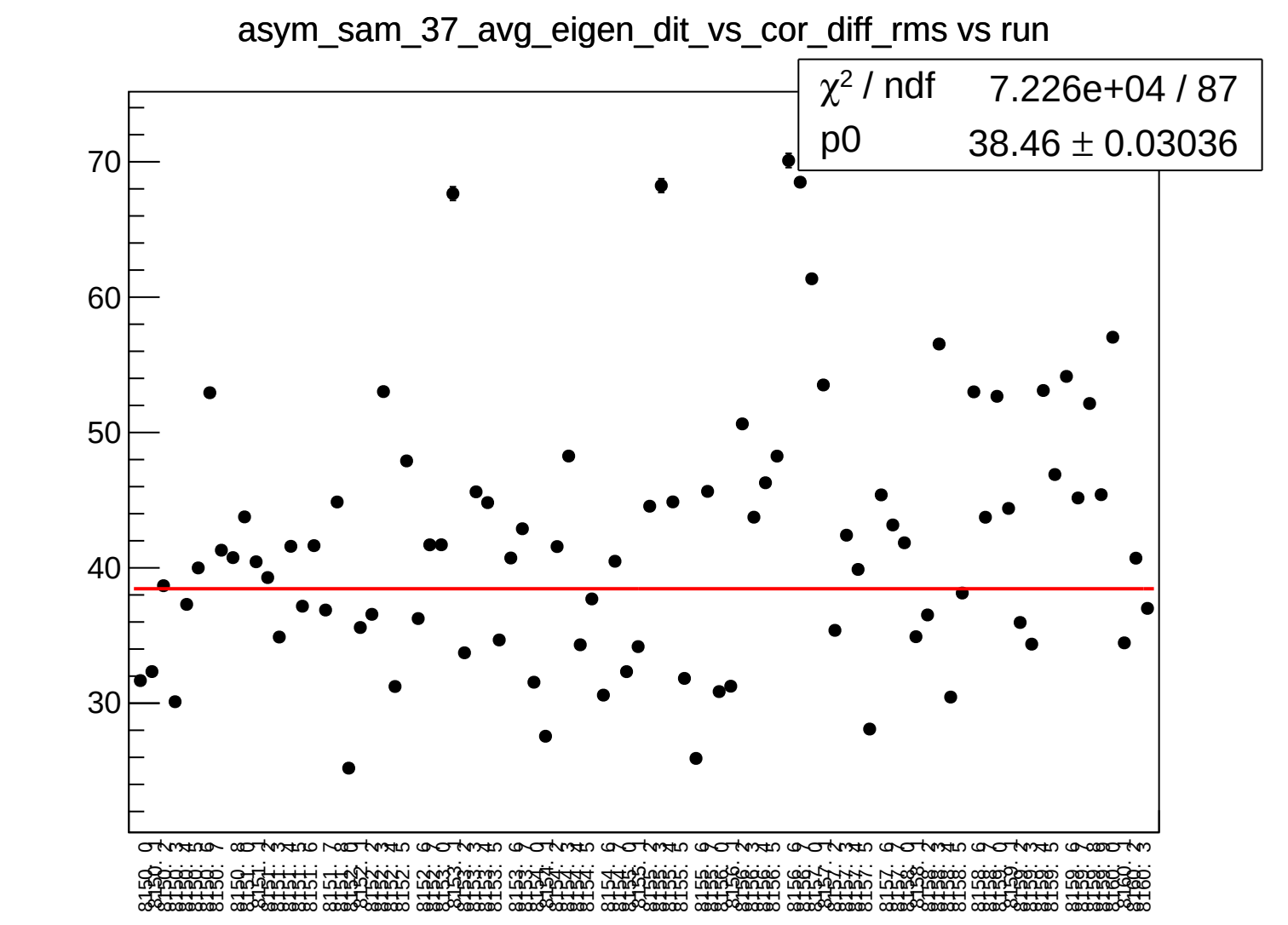

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.48 / 87
p0 −0.01873 ± 0.04294
pull
Entries 88
Mean −6656
Std Dev 0
pull1D
Entries 88
Mean 0.0004499
Std Dev 0.9856

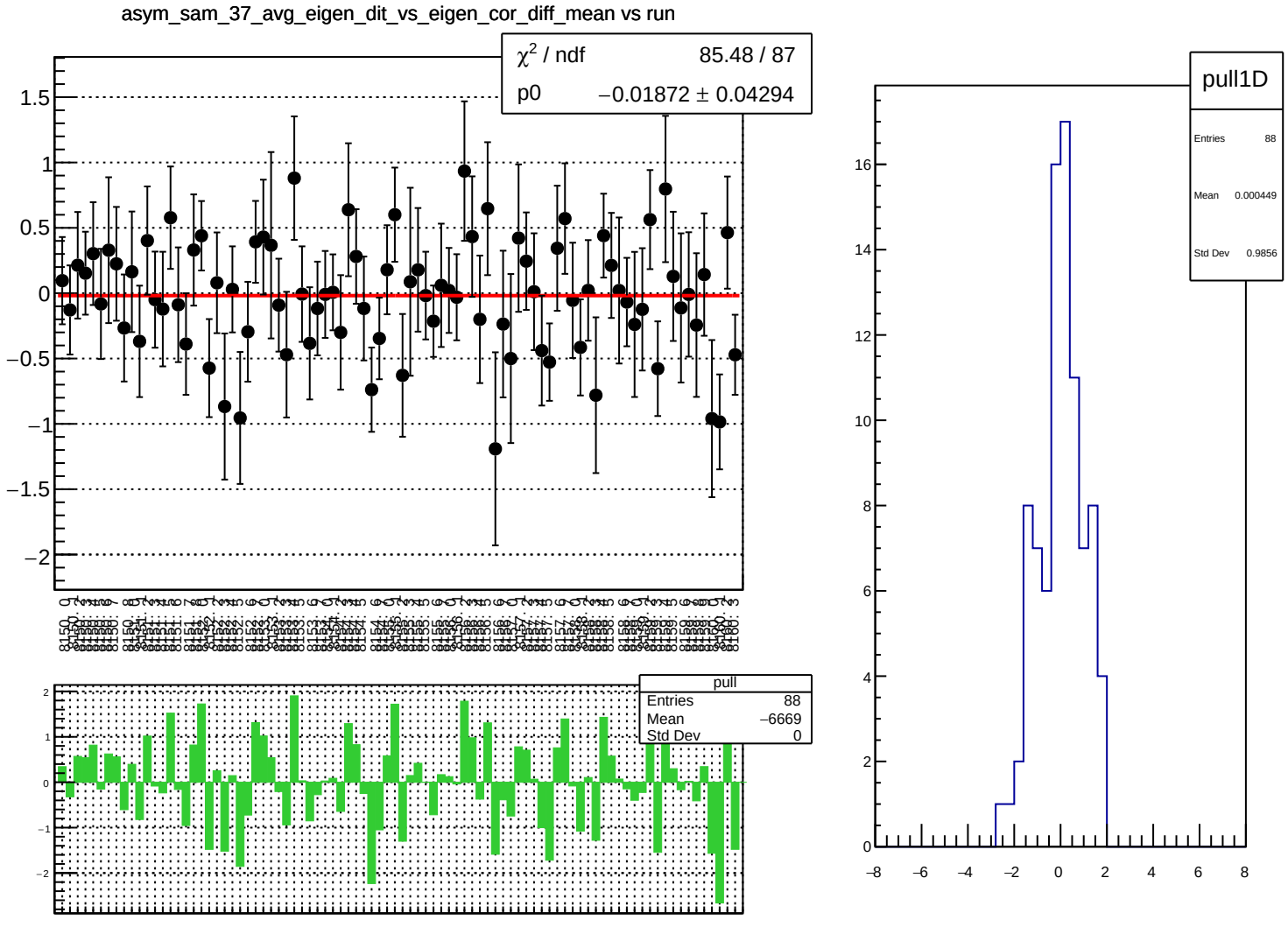

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.226e+04 / 87
p0 38.46 ± 0.03036
70
60
50
40
30

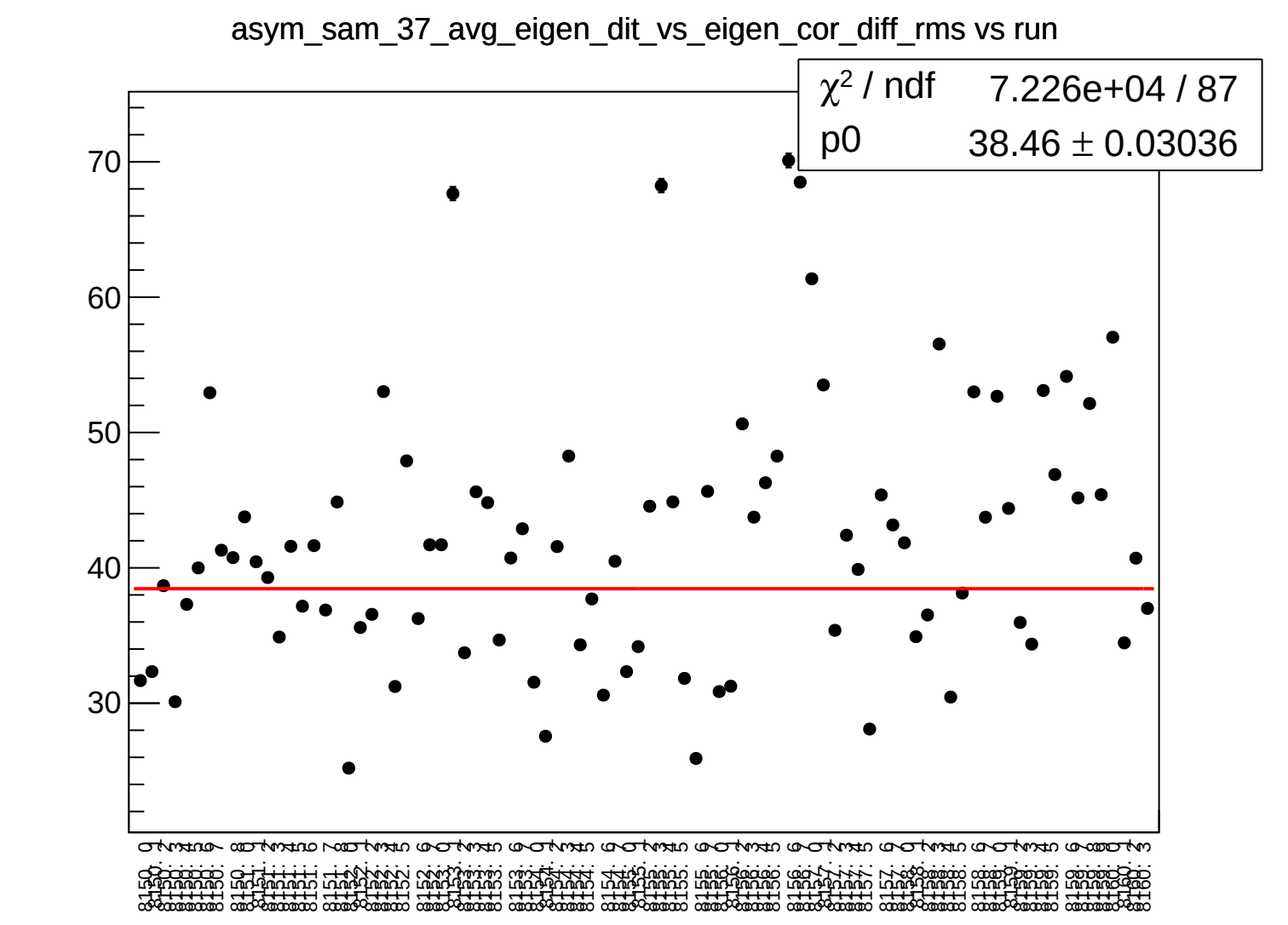

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.6 / 87
p0 5.083e−06 ± 2.709e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −2588
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0006432
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

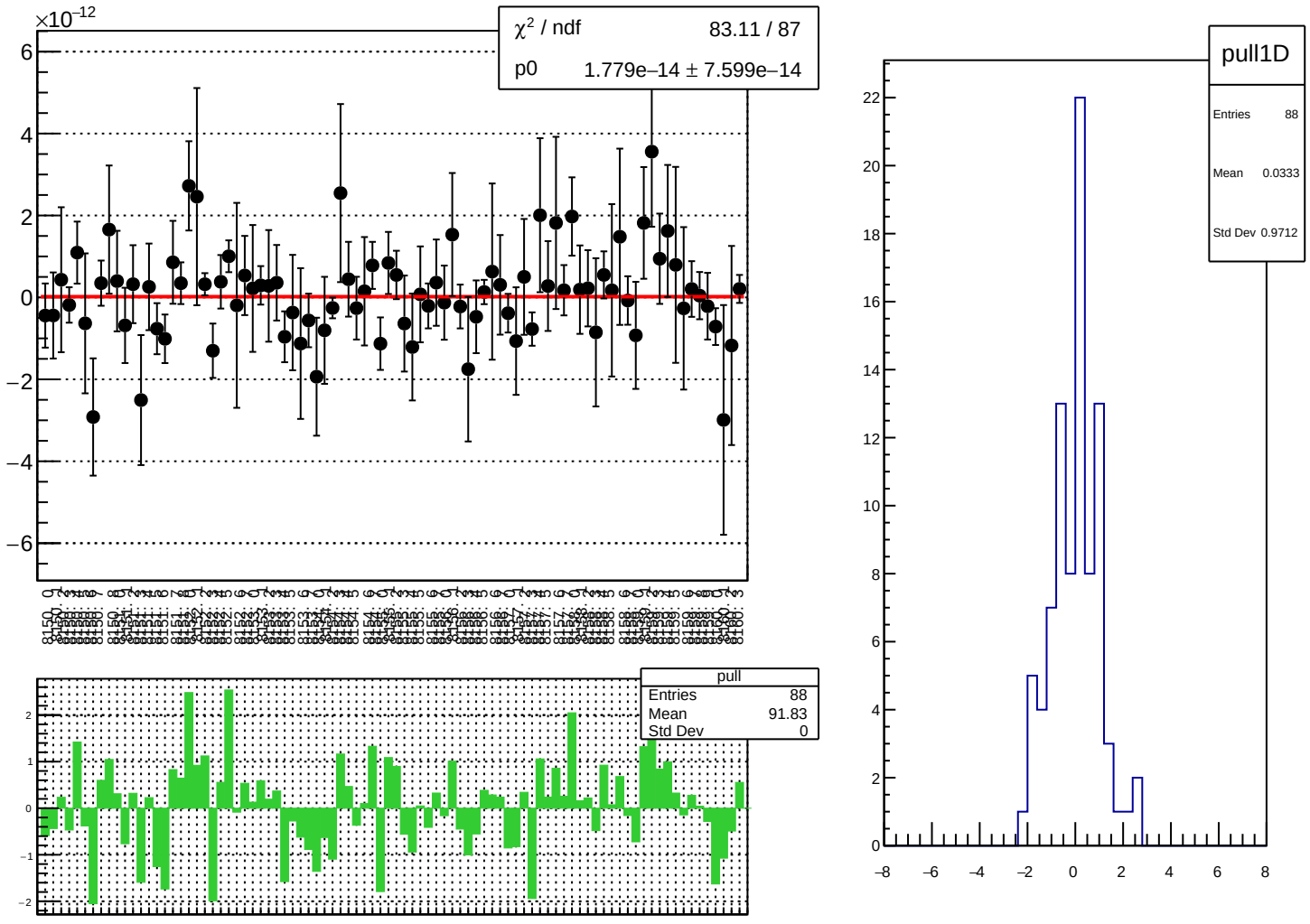

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1046 / 87
p0 0.002479 ± 1.915e−06
0.00265
0.0026
0.00255
0.0025
0.00245
0.0024
0.00235
0.0023

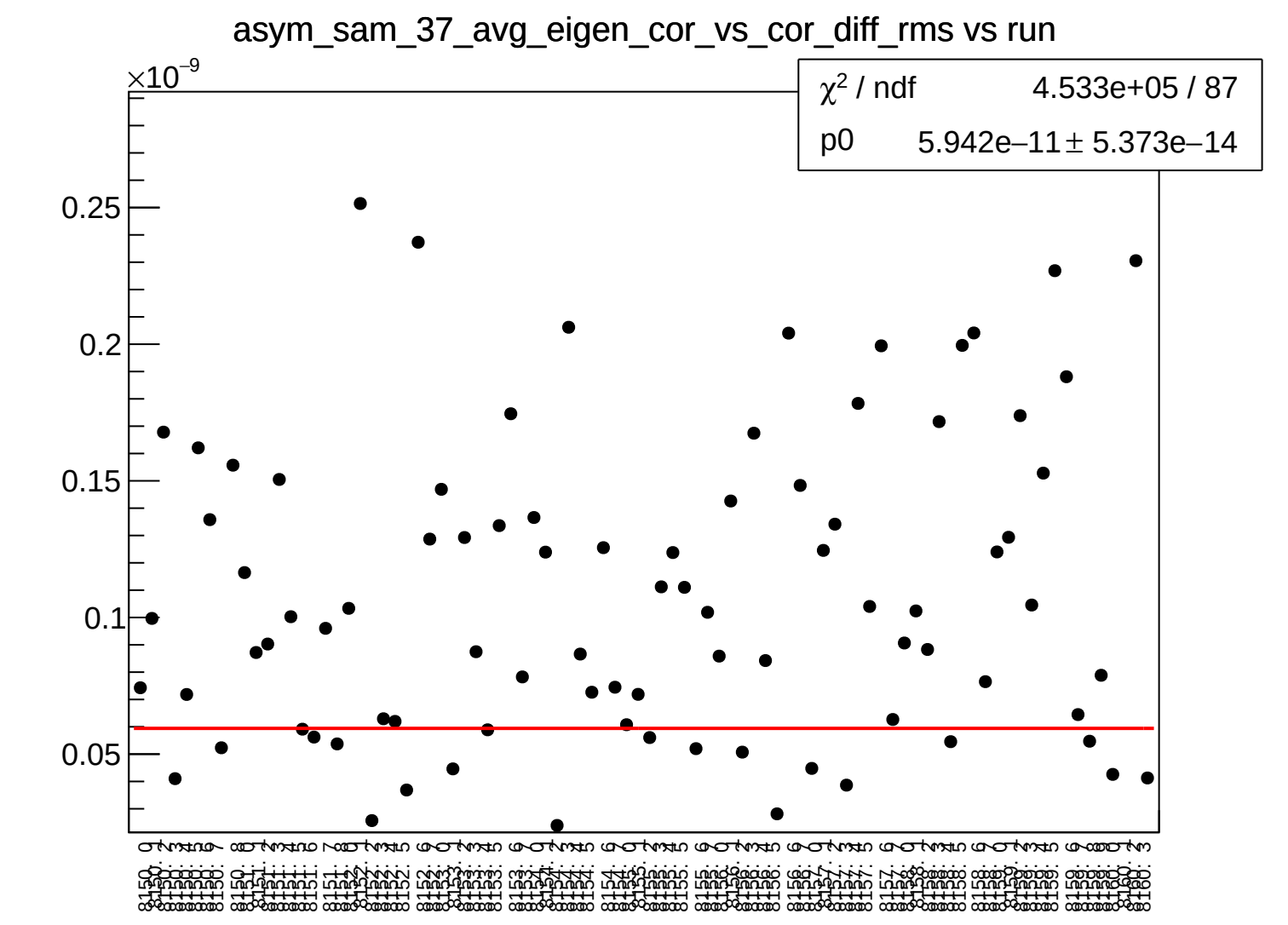

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.48 / 87
p0 −0.01872 ± 0.04294
pull
Entries 88
Mean −6669
Std Dev 0
pull1D
Entries 88
Mean 0.000449
Std Dev 0.9856

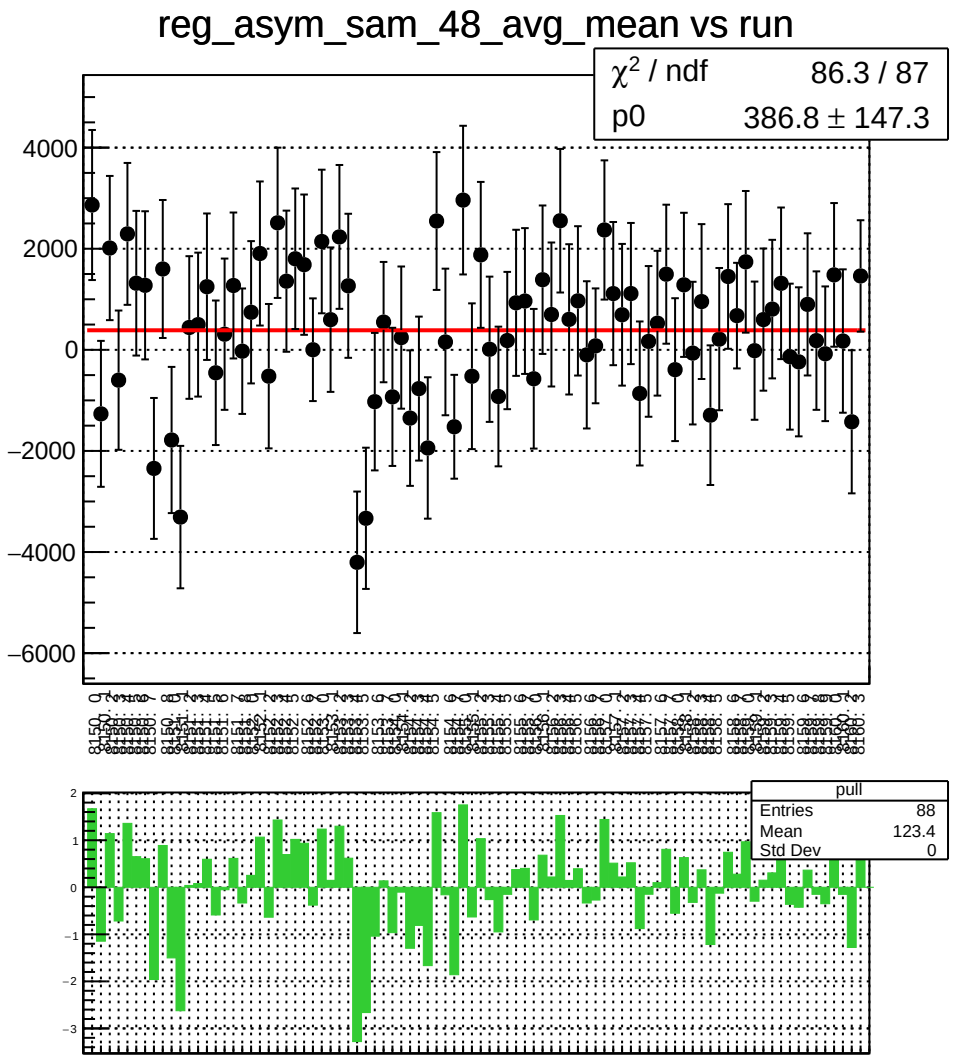

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.226e+04 / 87
p0 38.46 ± 0.03036
70
60
50
40
30

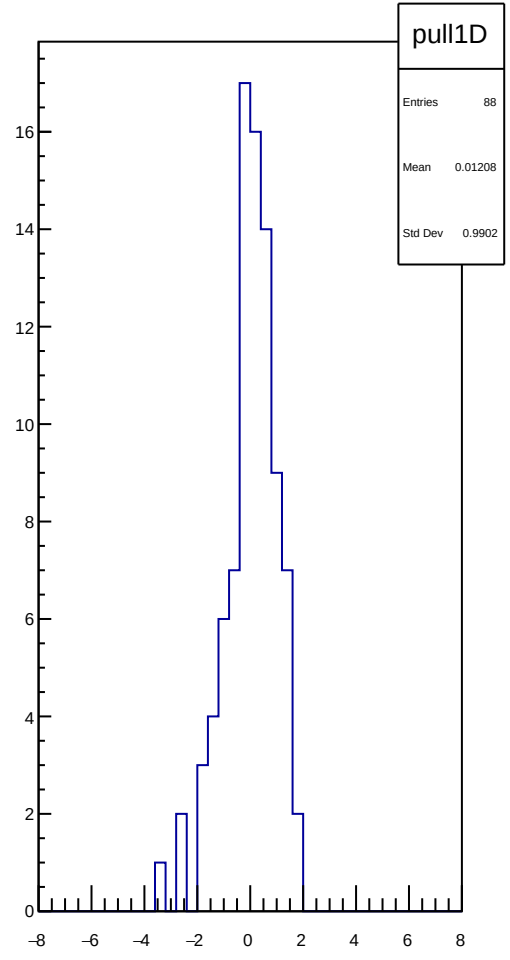

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.48 / 87
p0 −0.01872 ± 0.04294
pull
Entries 88
Mean −6669
Std Dev 0
pull1D
Entries 88
Mean 0.000449
Std Dev 0.9856

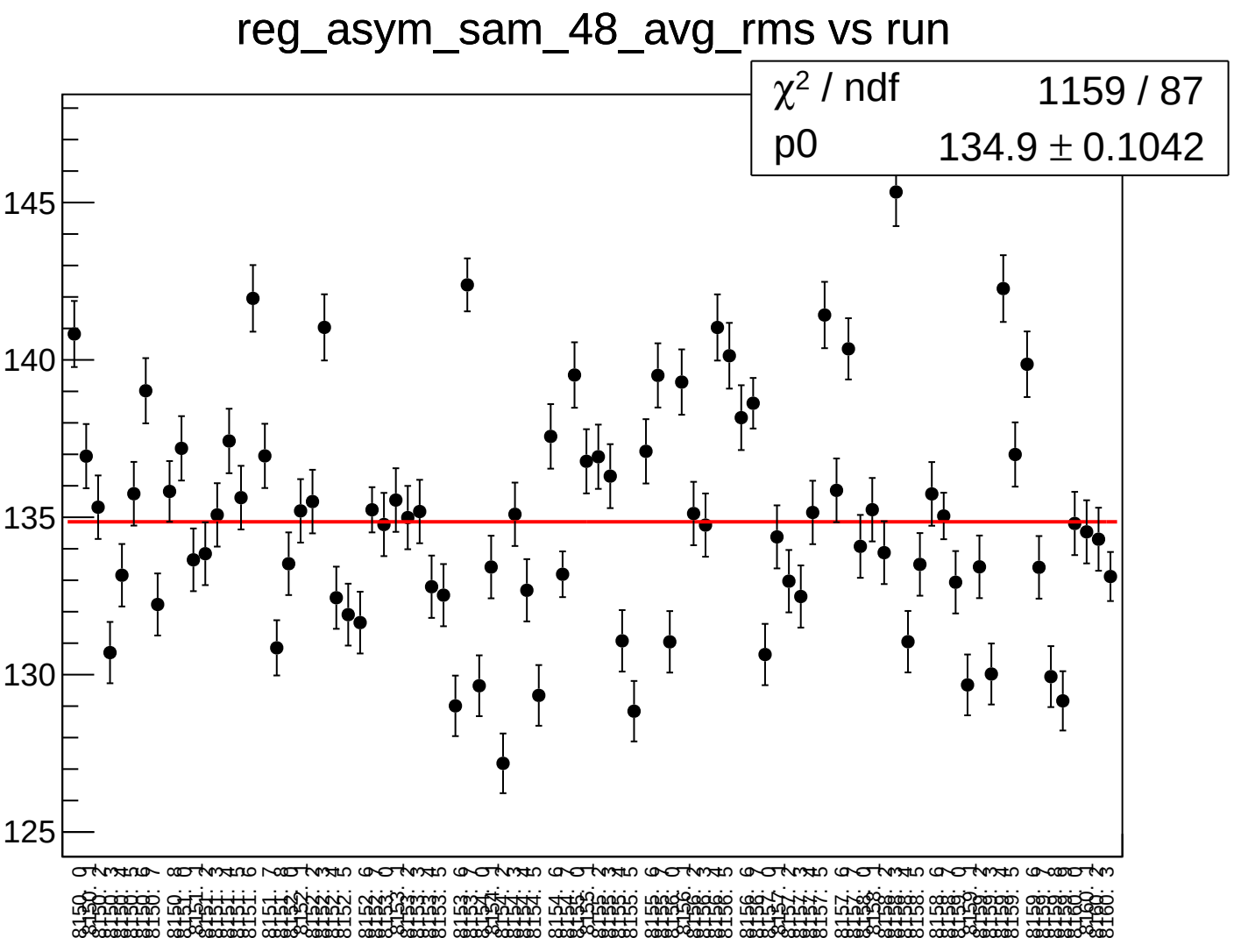

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.226e+04 / 87
p0 38.46 ± 0.03036
70
60
50
40
30

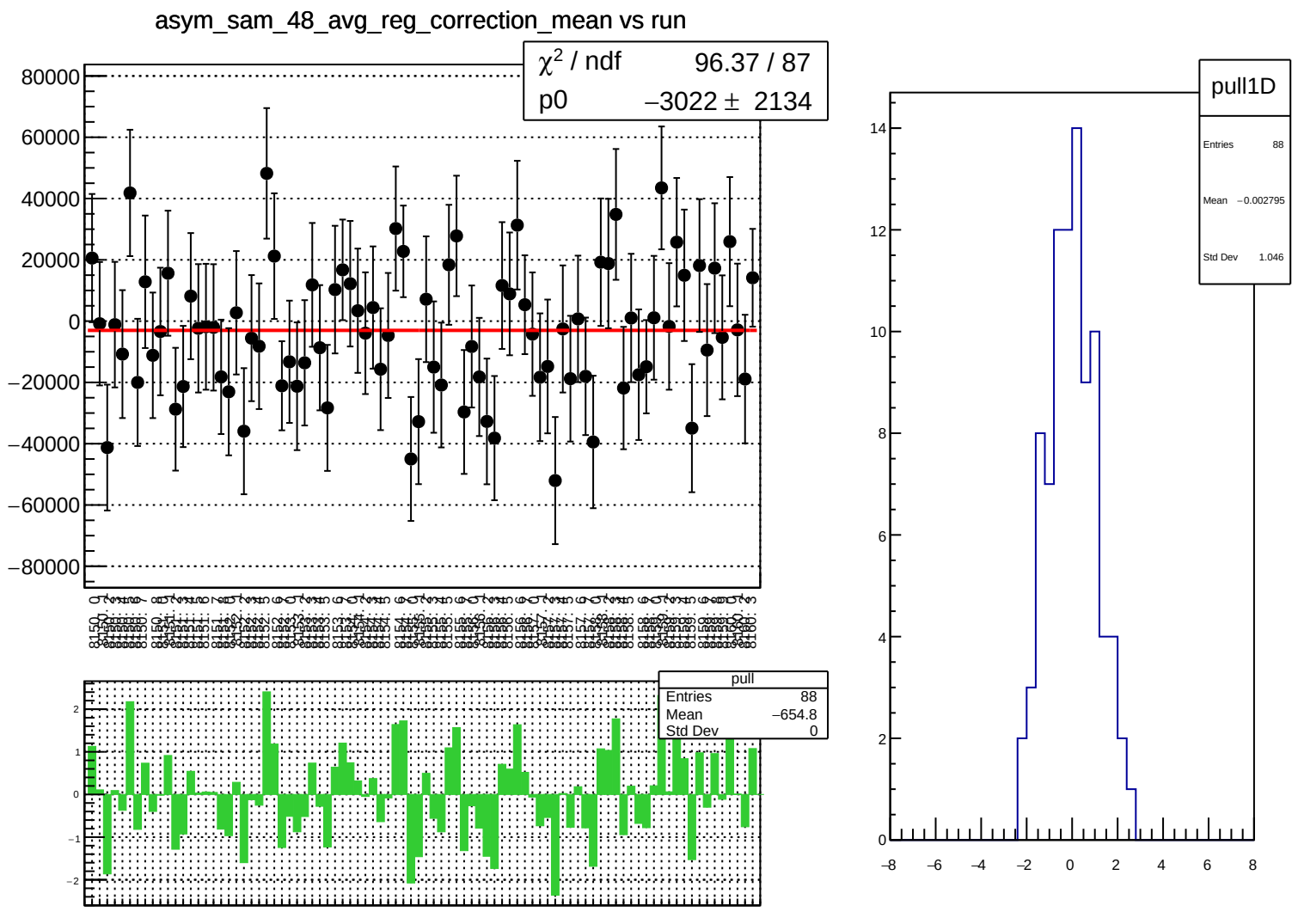

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.11 / 87
p0 1.779e−14 ± 7.599e−14
pull
Entries 88
Mean 91.83
Std Dev 0
pull1D
Entries 88
Mean 0.0333
Std Dev 0.9712

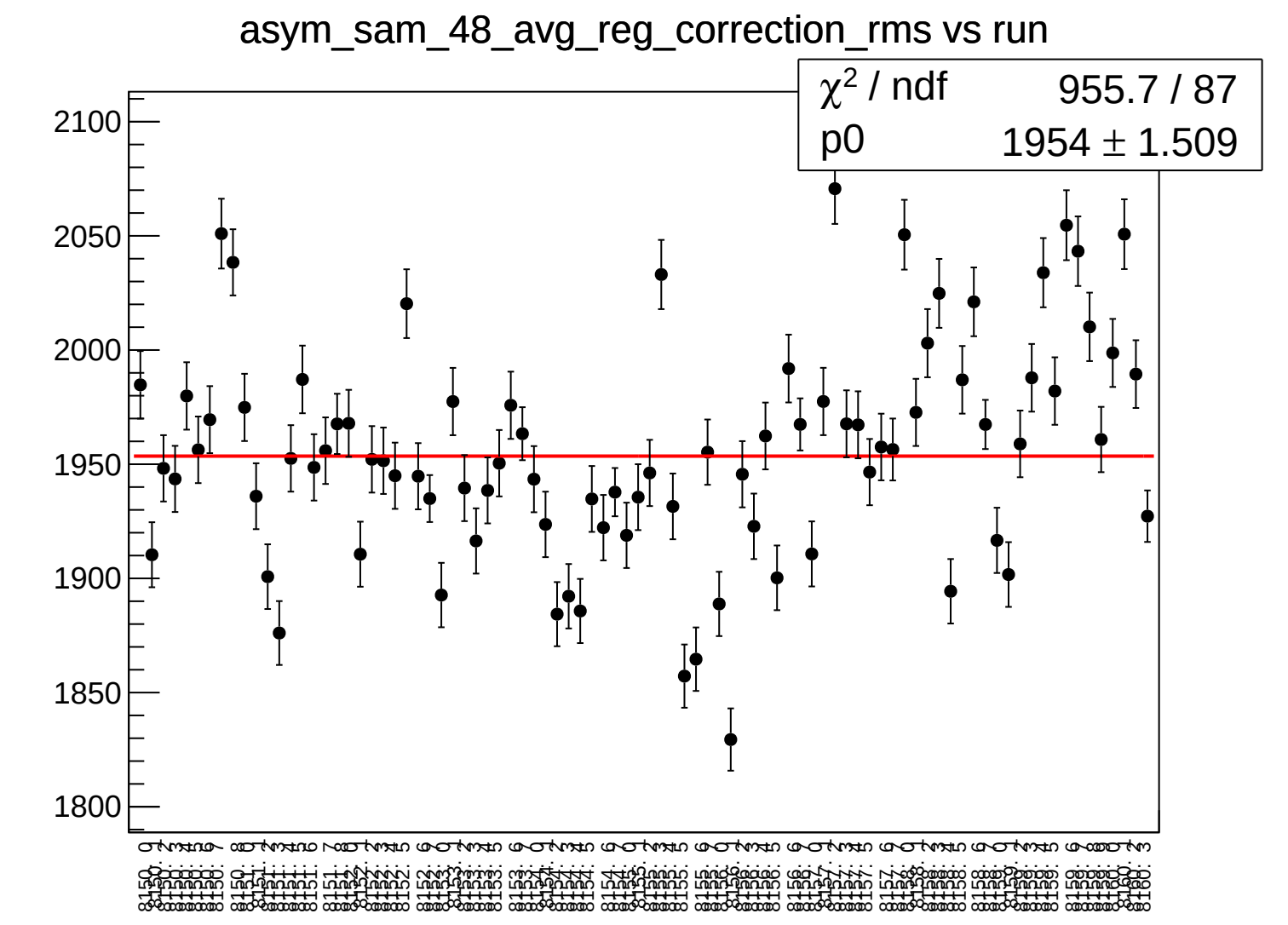

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.533e+05 / 87
p0 5.942e−11 ± 5.373e−14
0.25
0.2
0.15
0.1
0.05

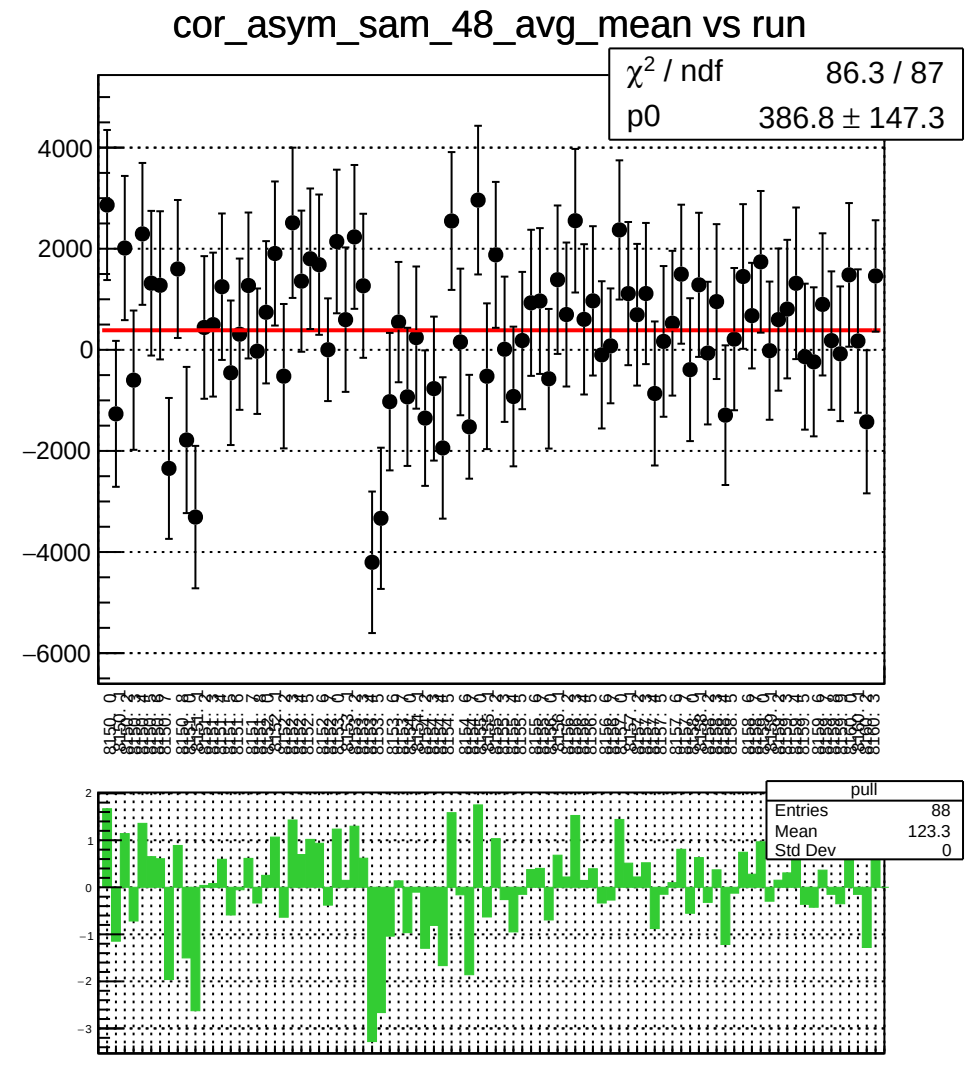

reg_asym_sam_48_avg_mean vs run
χ^2 / ndf 86.3 / 87
p0 386.8 ± 147.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 123.4
Std Dev 0
2
1
0
−1
−2
−3

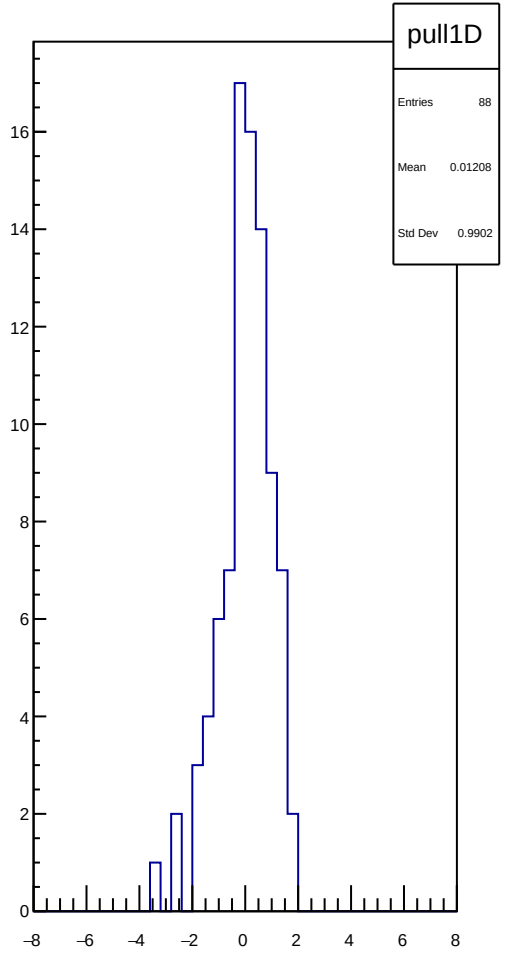

pull1D
Entries 88
Mean 0.01208
Std Dev 0.9902
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

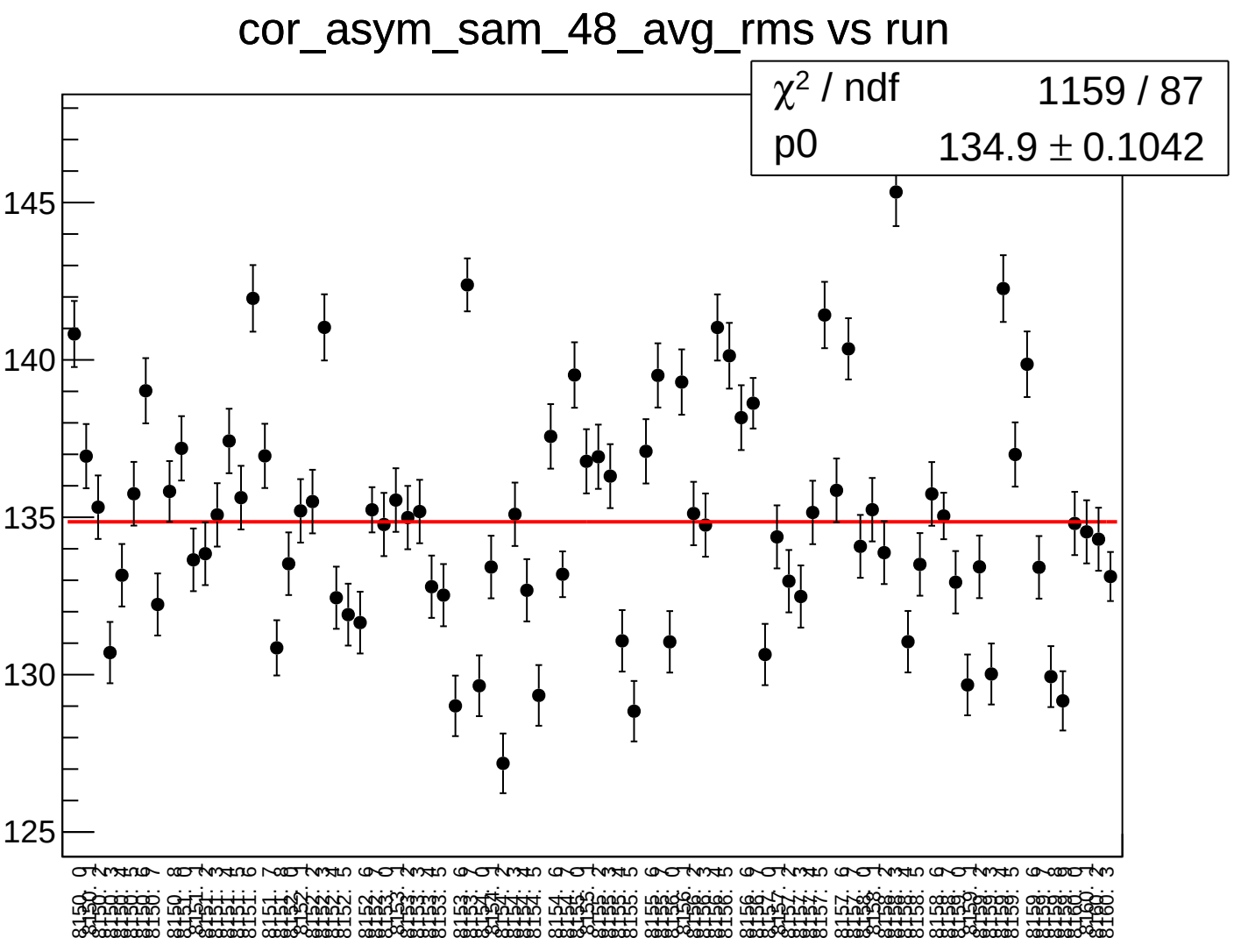

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1159 / 87
p0 134.9 ± 0.1042
145
140
135
130
125

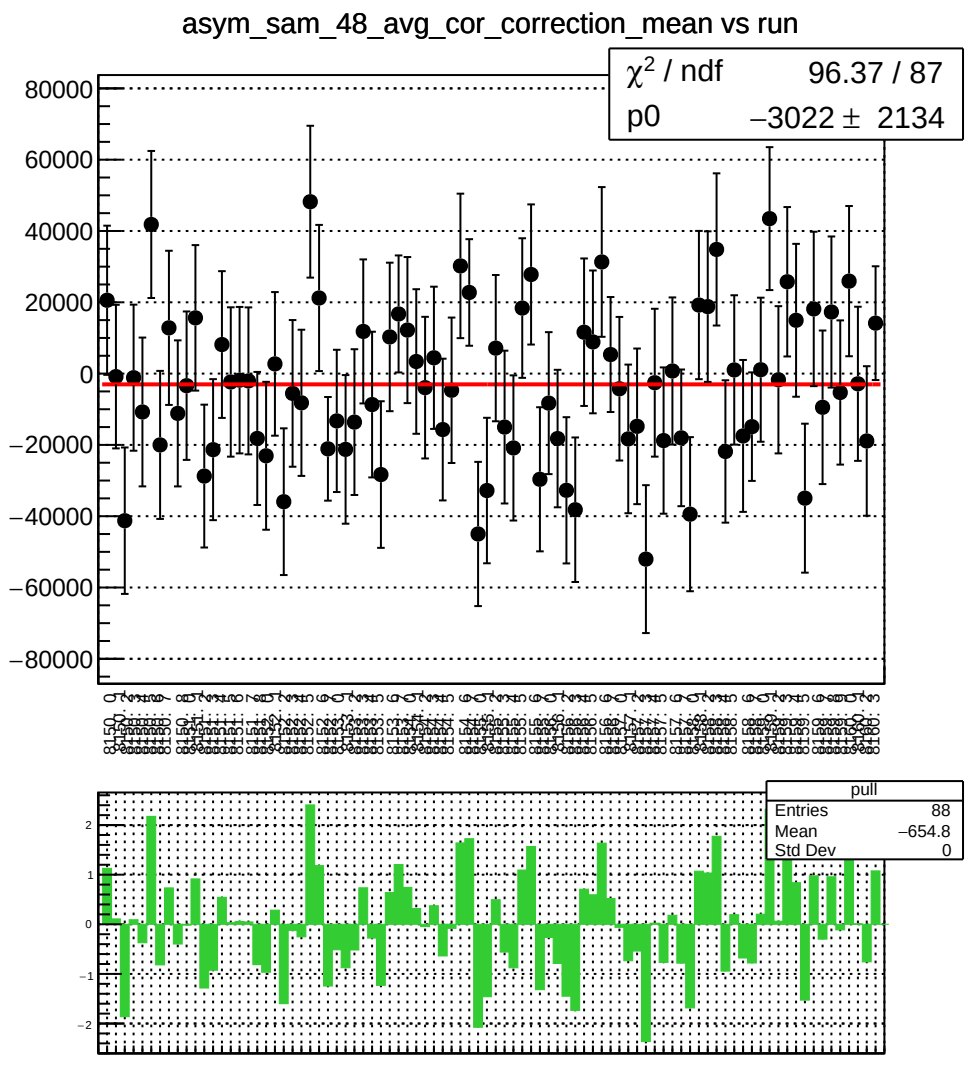

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 96.37 / 87
p0 −3022 ± 2134
pull
Entries 88
Mean −654.8
Std Dev 0
pull1D
Entries 88
Mean −0.002795
Std Dev 1.046

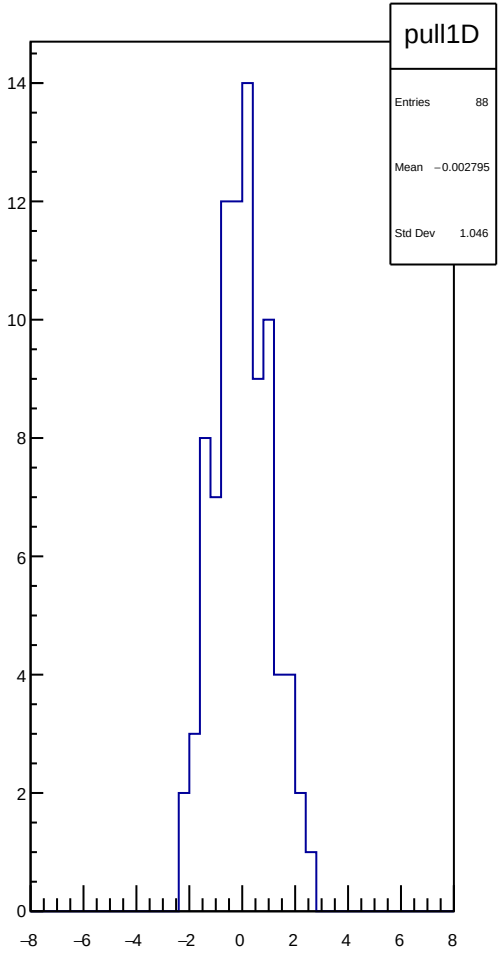

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 955.7 / 87
p0 1954 ± 1.509
2100
2050
2000
1950
1900
1850
1800

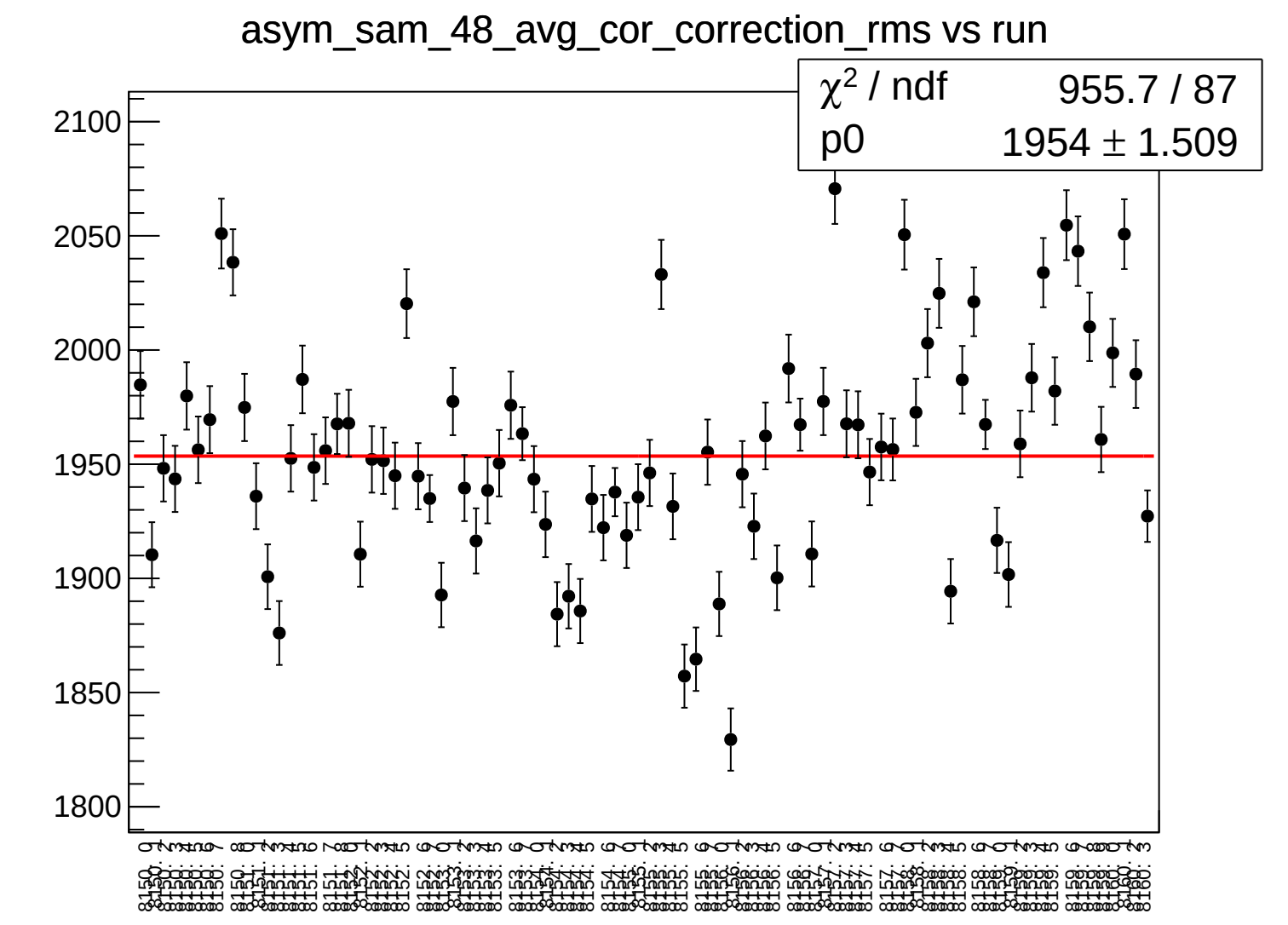

cor_asym_sam_48_avg_mean vs run
χ² / ndf 86.3 / 87
p0 386.8 ± 147.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 123.3
Std Dev 0
2
1
0
−1
−2
−3

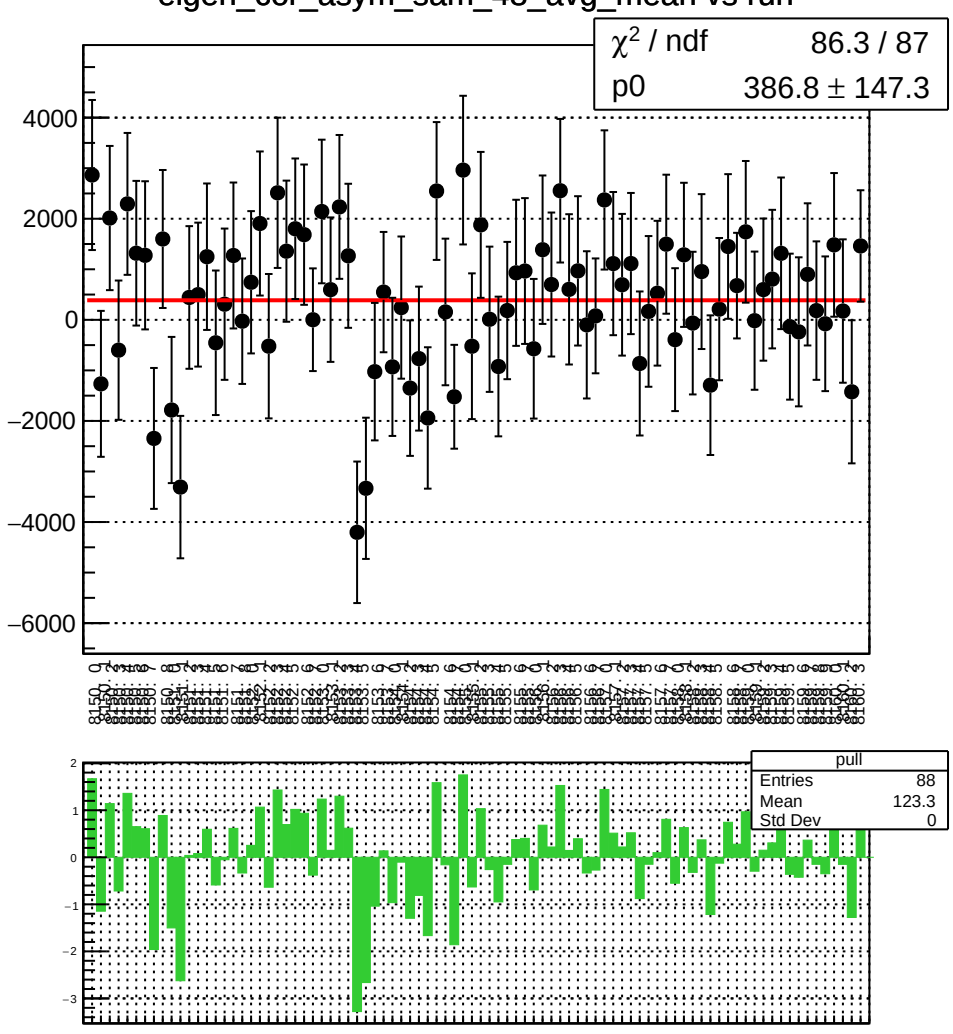

pull1D
Entries 88
Mean 0.01208
Std Dev 0.9902
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

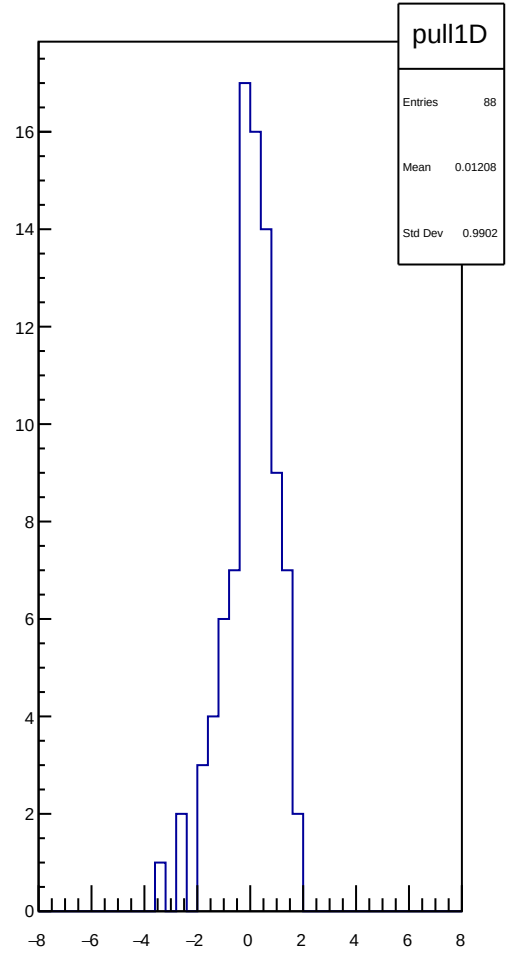

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1159 / 87
p0 134.9 ± 0.1042
145
140
135
130
125

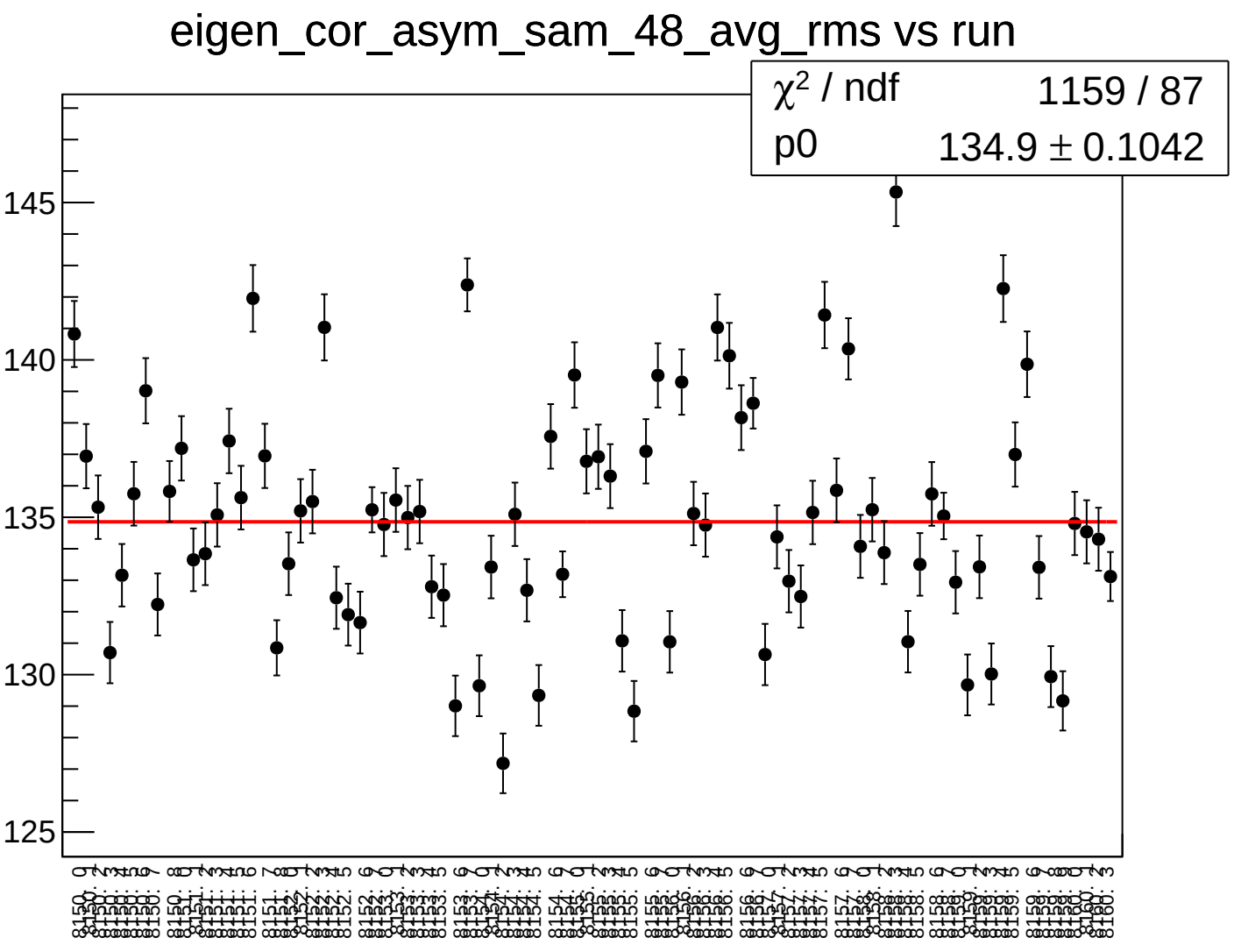

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 96.37 / 87
p0 −3022 ± 2134
pull
Entries 88
Mean −654.8
Std Dev 0

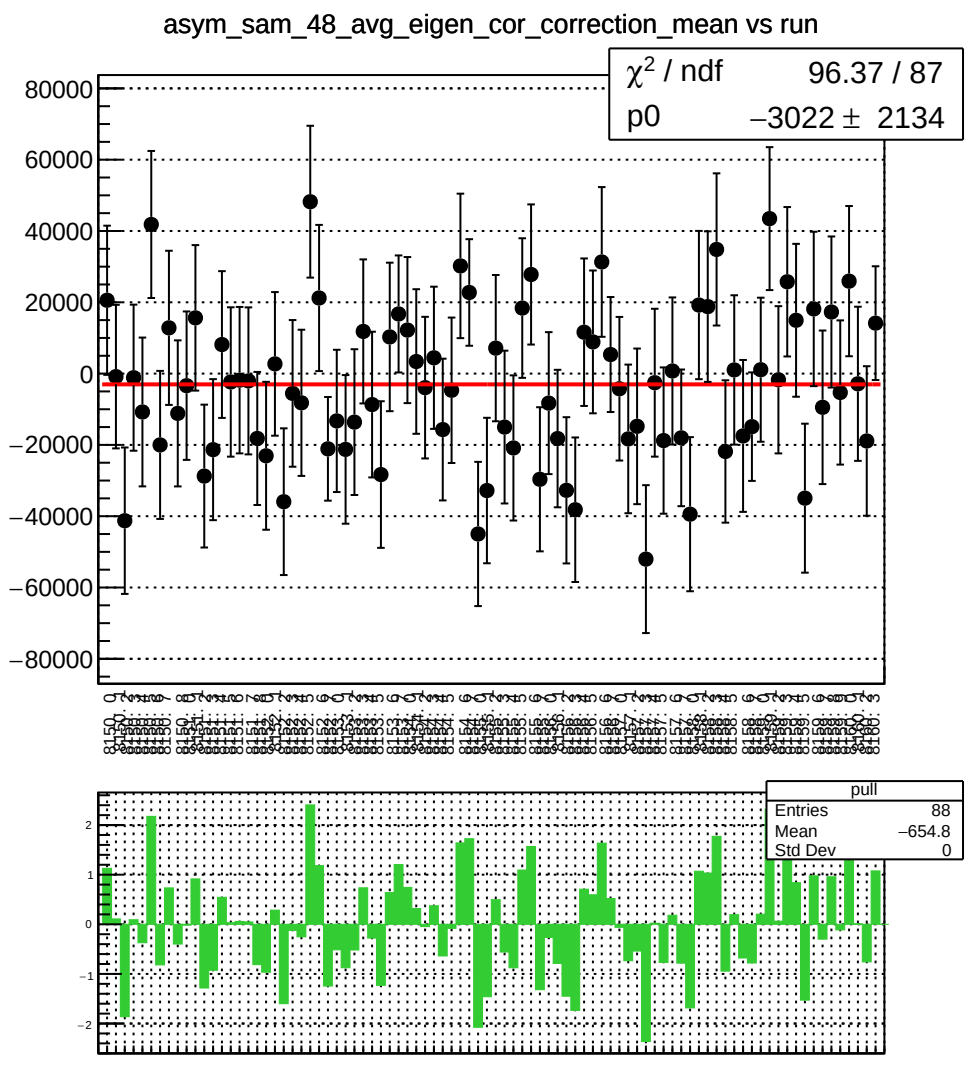

pull1D
Entries 88
Mean −0.002795
Std Dev 1.046

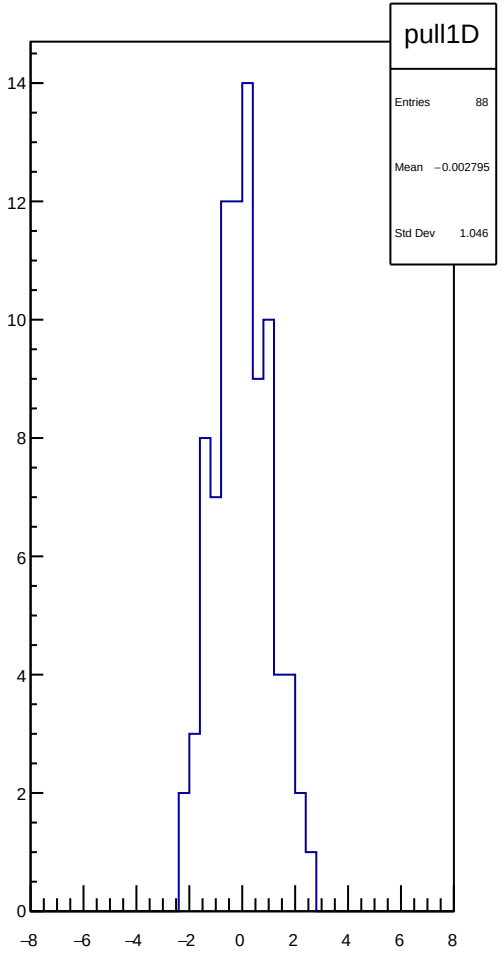

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 955.7 / 87
p0 1954 ± 1.509
2100
2050
2000
1950
1900
1850
1800

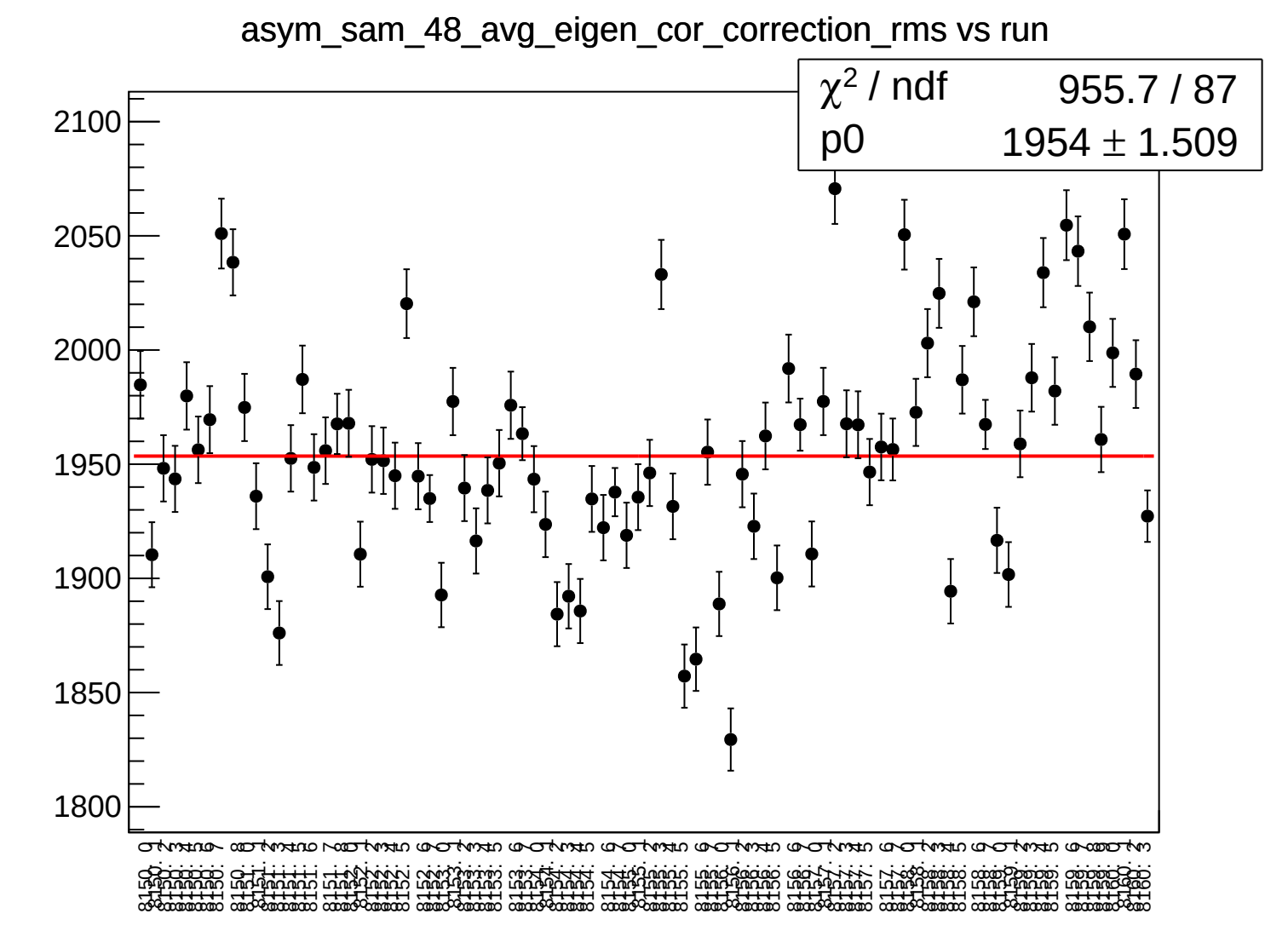

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 86.3 / 87
p0 386.8 ± 147.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 123.3
Std Dev 0
2
1
0
−1
−2
−3

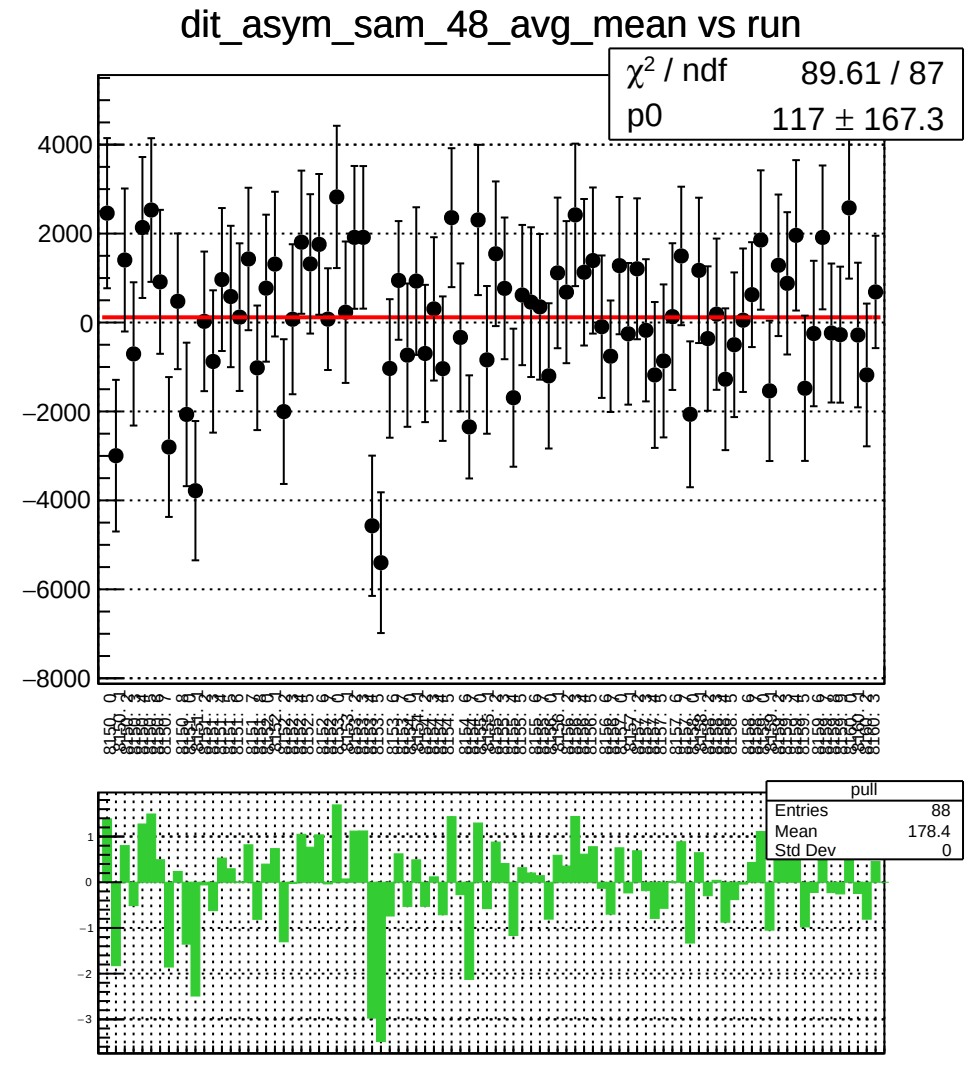

pull1D
Entries 88
Mean 0.01208
Std Dev 0.9902
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

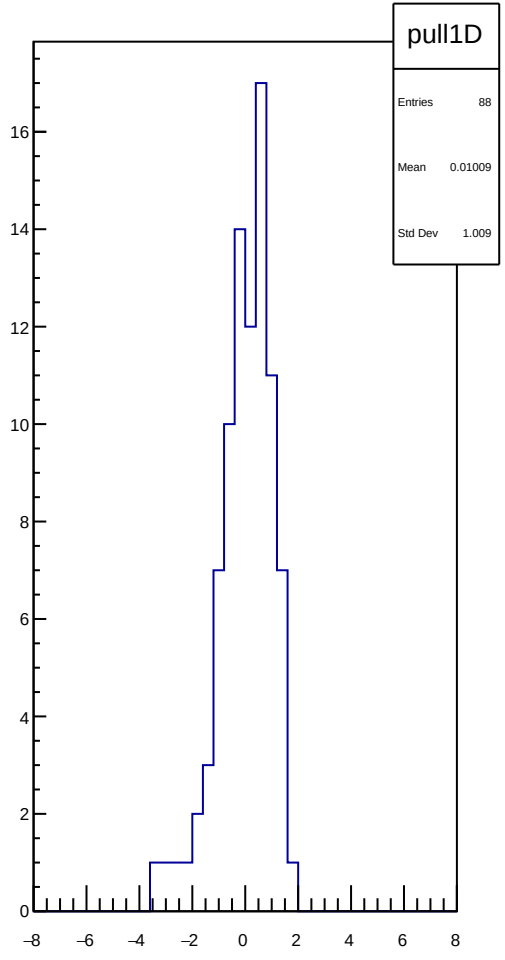

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1159 / 87
p0 134.9 ± 0.1042
145
140
135
130
125

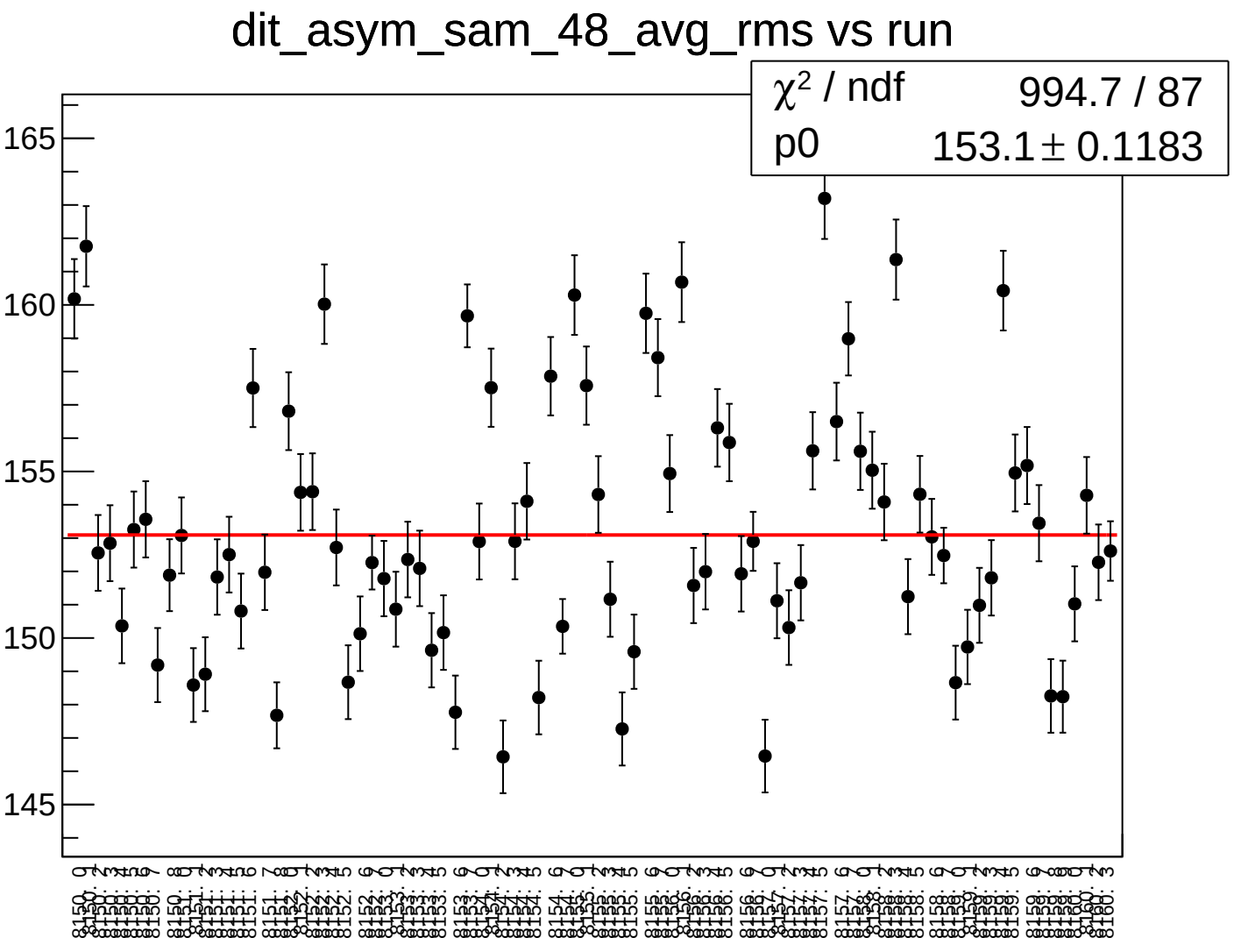

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.37 / 87
p0 −3022 ± 2134
pull
Entries 88
Mean −654.8
Std Dev 0

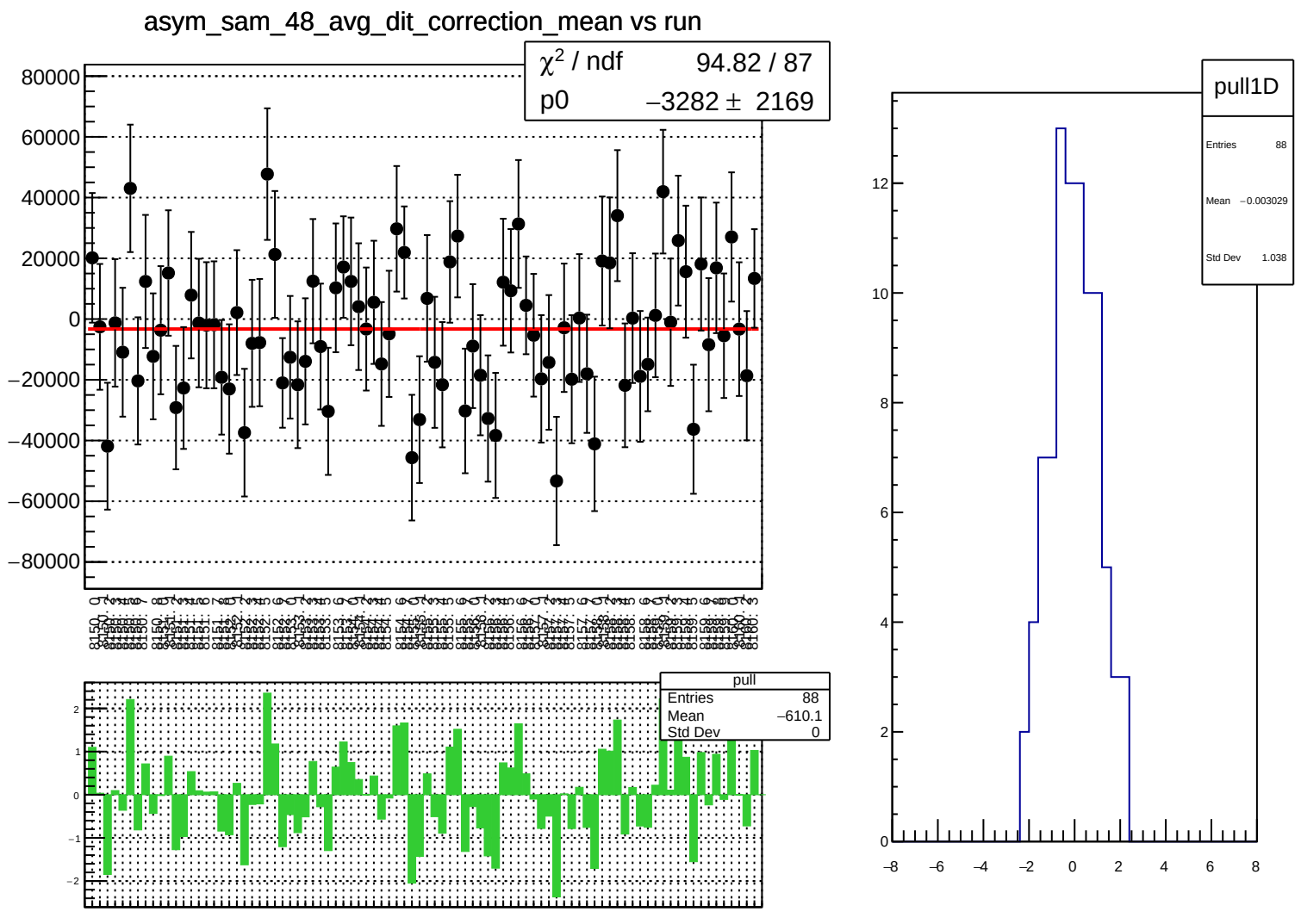

pull1D
Entries 88
Mean −0.002795
Std Dev 1.046

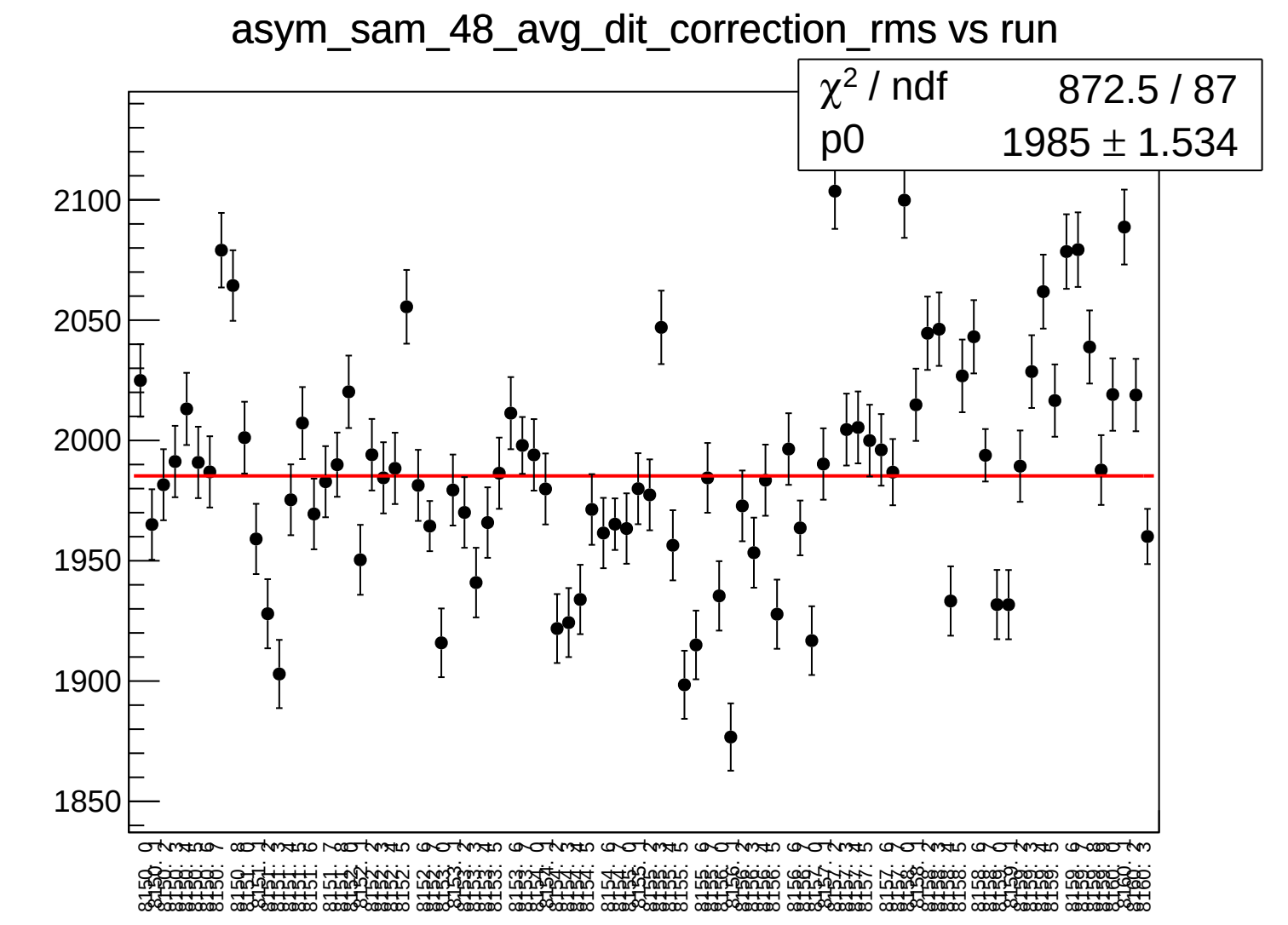

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 955.7 / 87
p0 1954 ± 1.509
2100
2050
2000
1950
1900
1850
1800

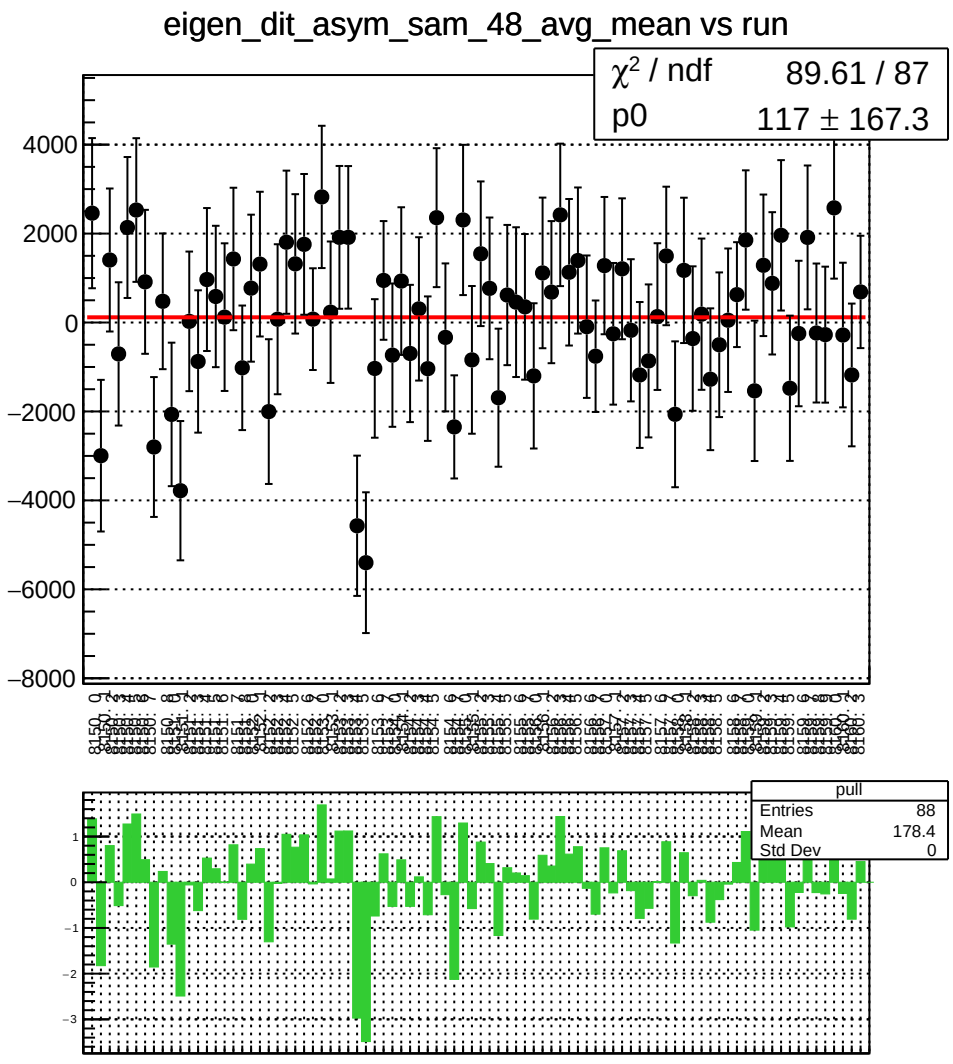

dit_asym_sam_48_avg_mean vs run
χ² / ndf 89.61 / 87
p0 117 ± 167.3
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean 178.4
Std Dev 0
1
0
−1
−2
−3

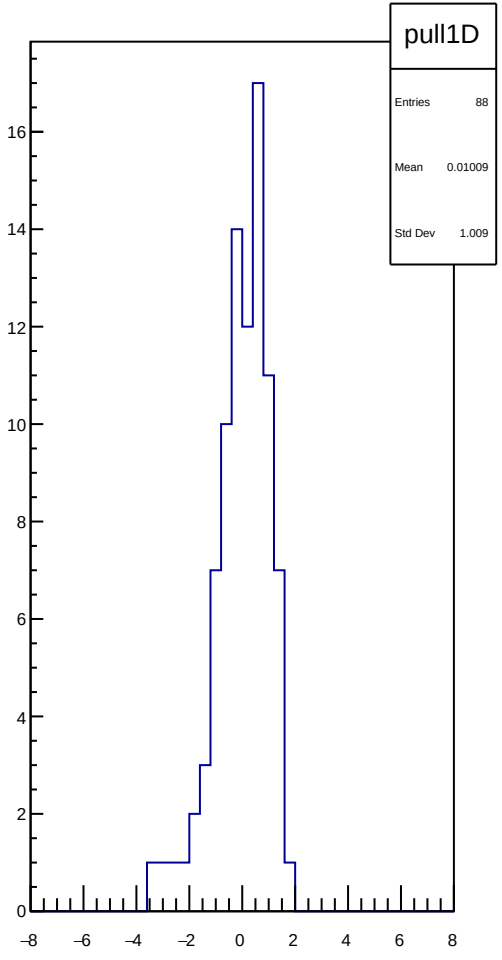

pull1D
Entries 88
Mean 0.01009
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

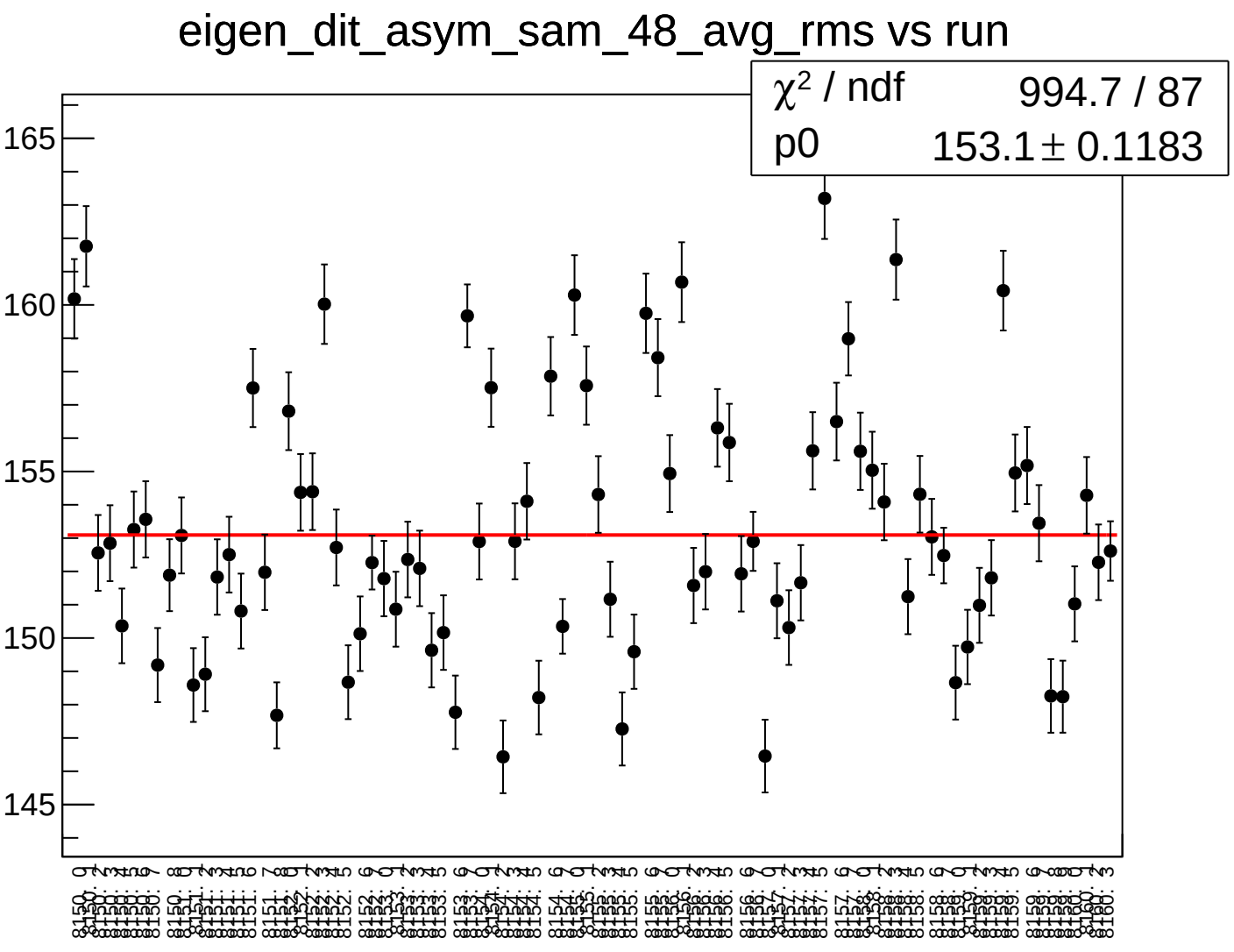

dit_asym_sam_48_avg_rms vs run
χ² / ndf 994.7 / 87
p0 153.1 ± 0.1183
165
160
155
150
145

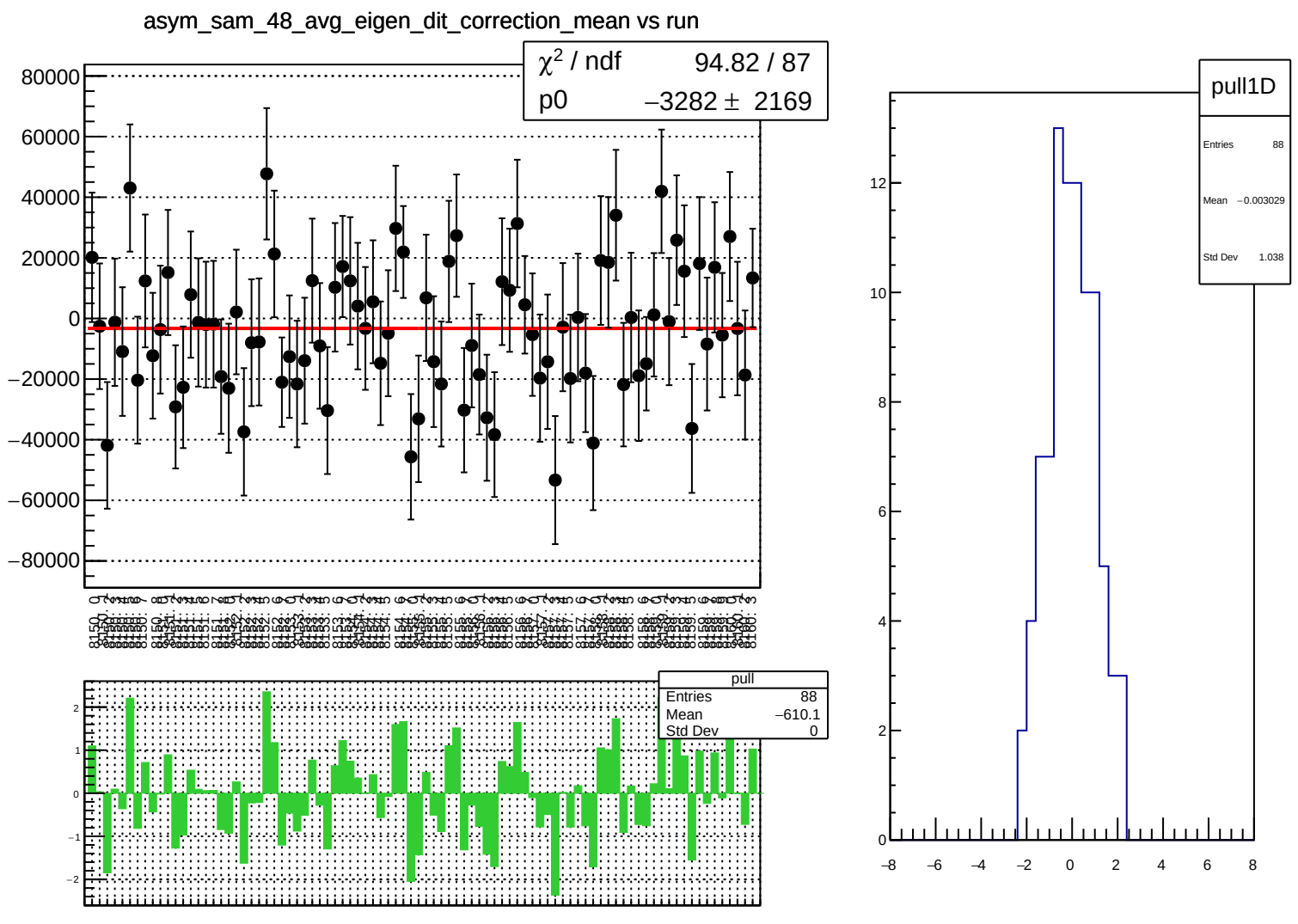

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 94.82 / 87
p0 −3282 ± 2169
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −610.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003029
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

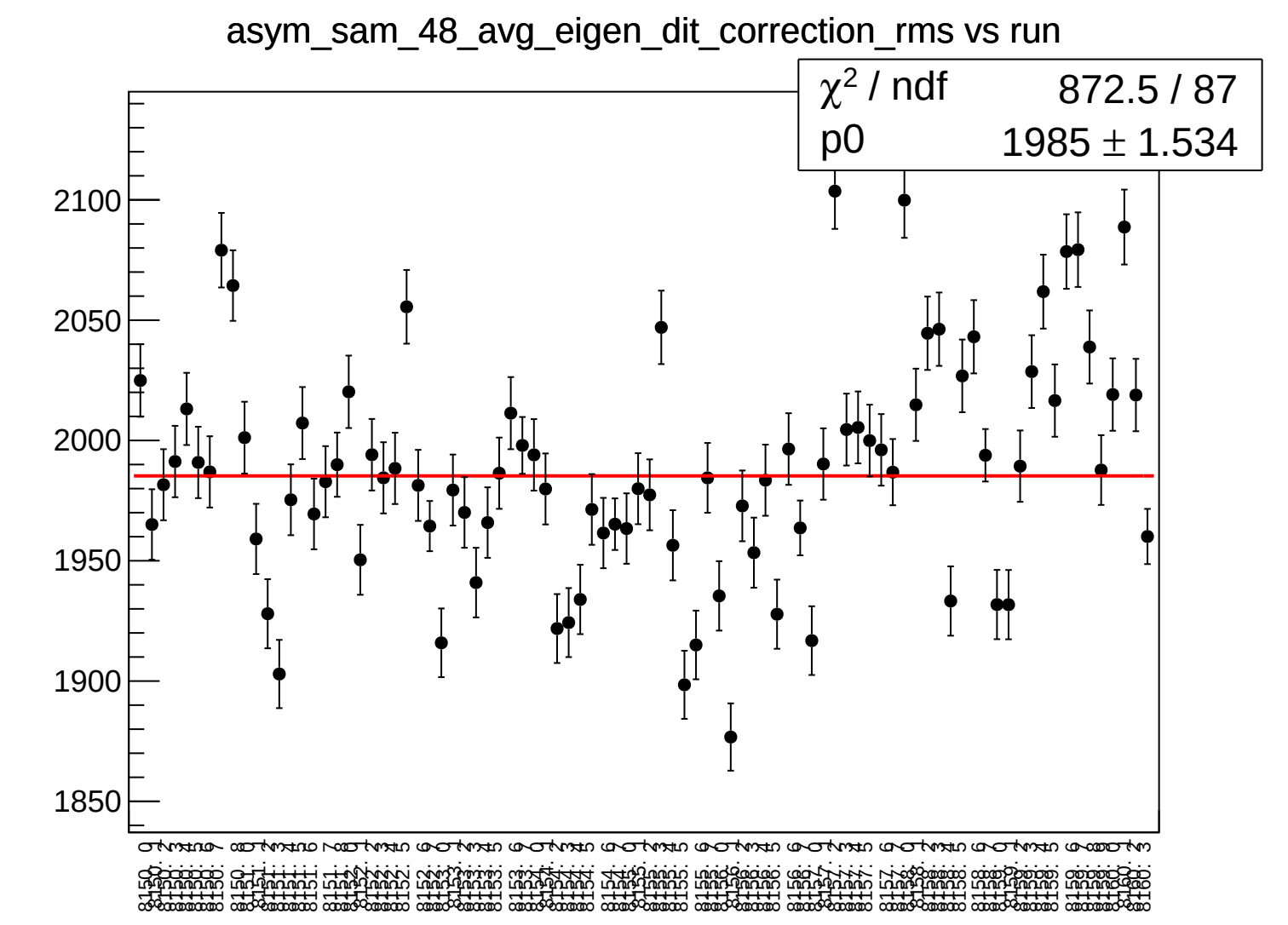

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 872.5 / 87
p0 1985 ± 1.534
2100
2050
2000
1950
1900
1850

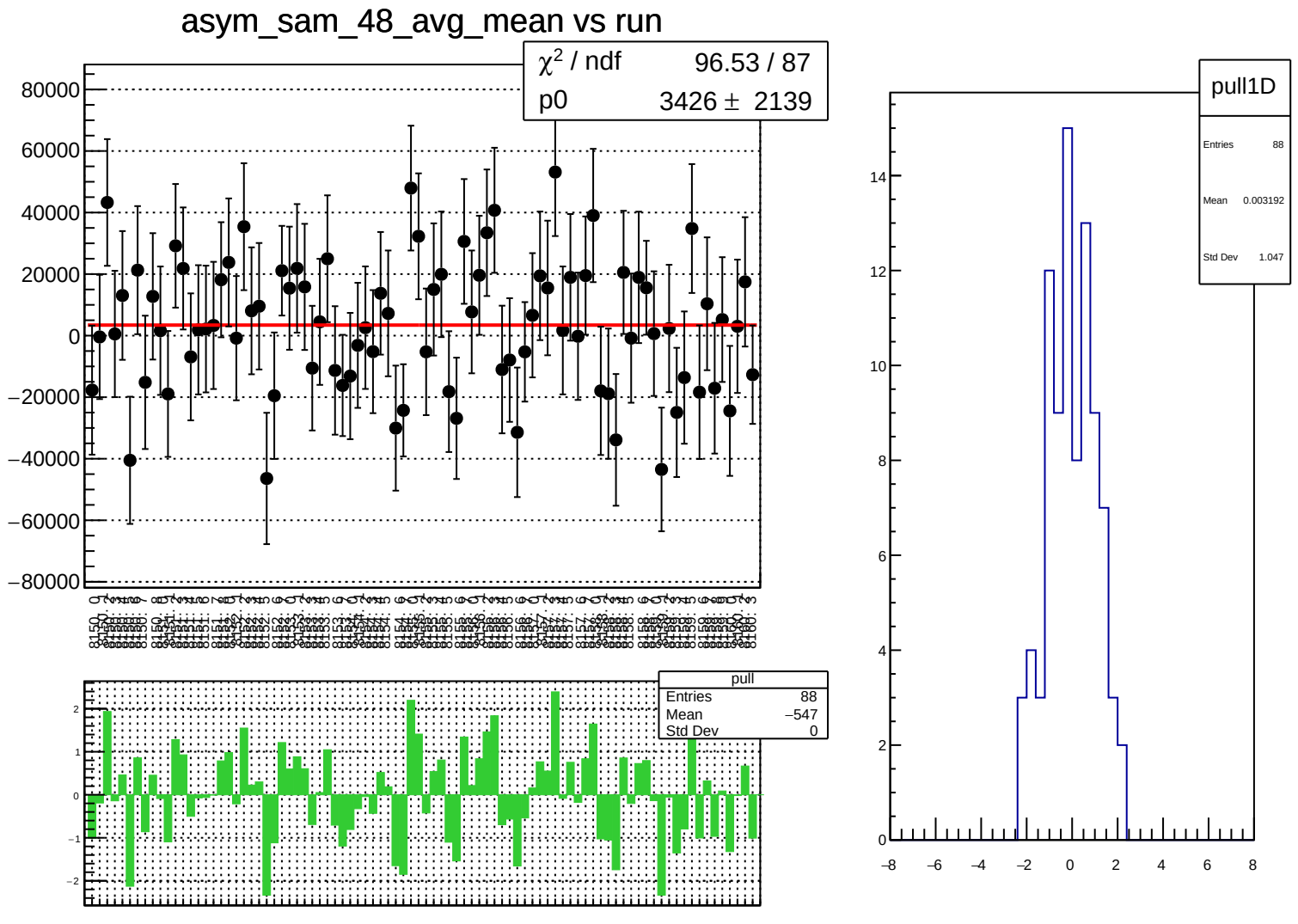

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 89.61 / 87
p0 117 ± 167.3
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean 178.4
Std Dev 0
1
0
−1
−2
−3

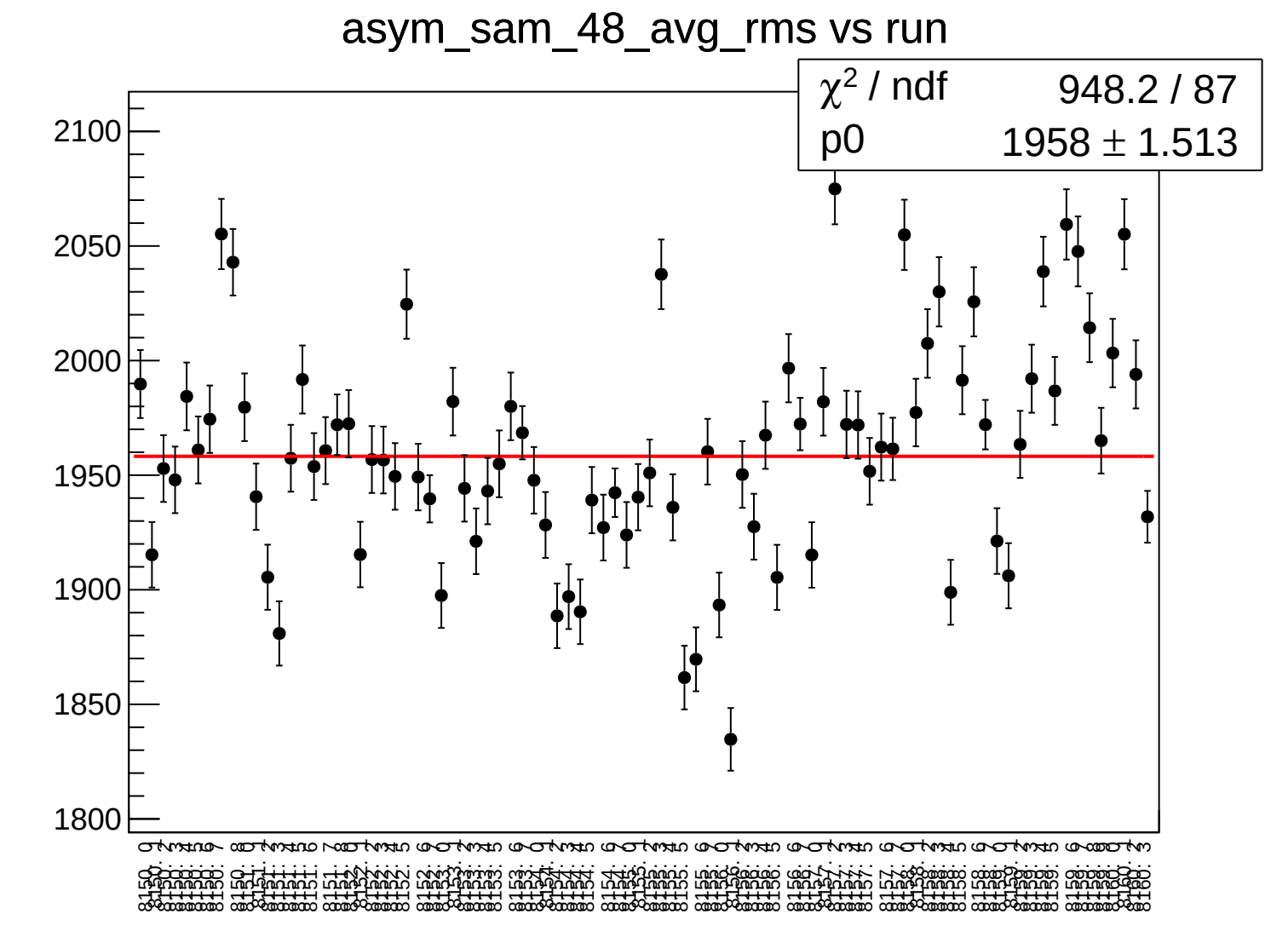

pull1D
Entries 88
Mean 0.01009
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

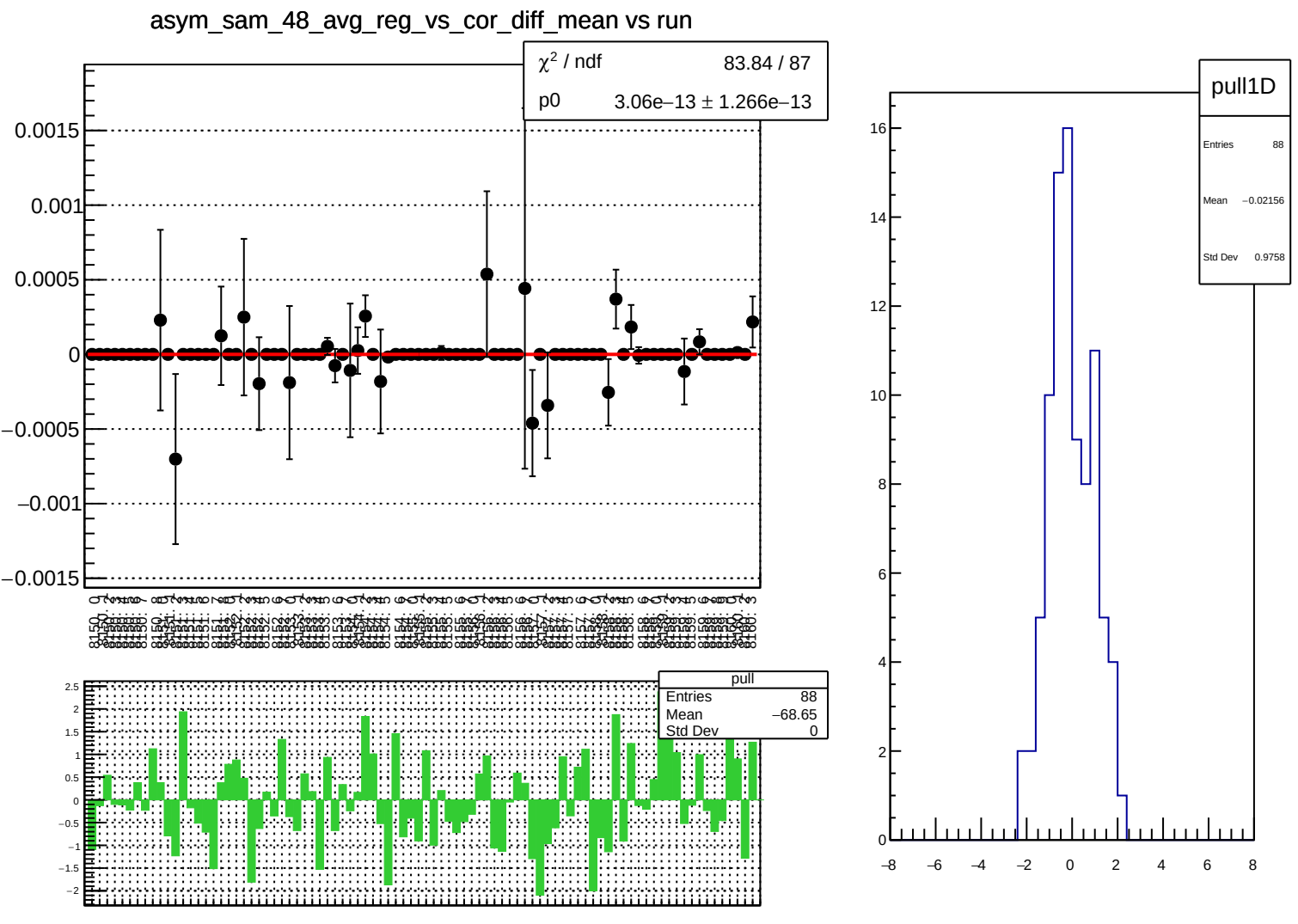

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 994.7 / 87
p0 153.1 ± 0.1183
165
160
155
150
145

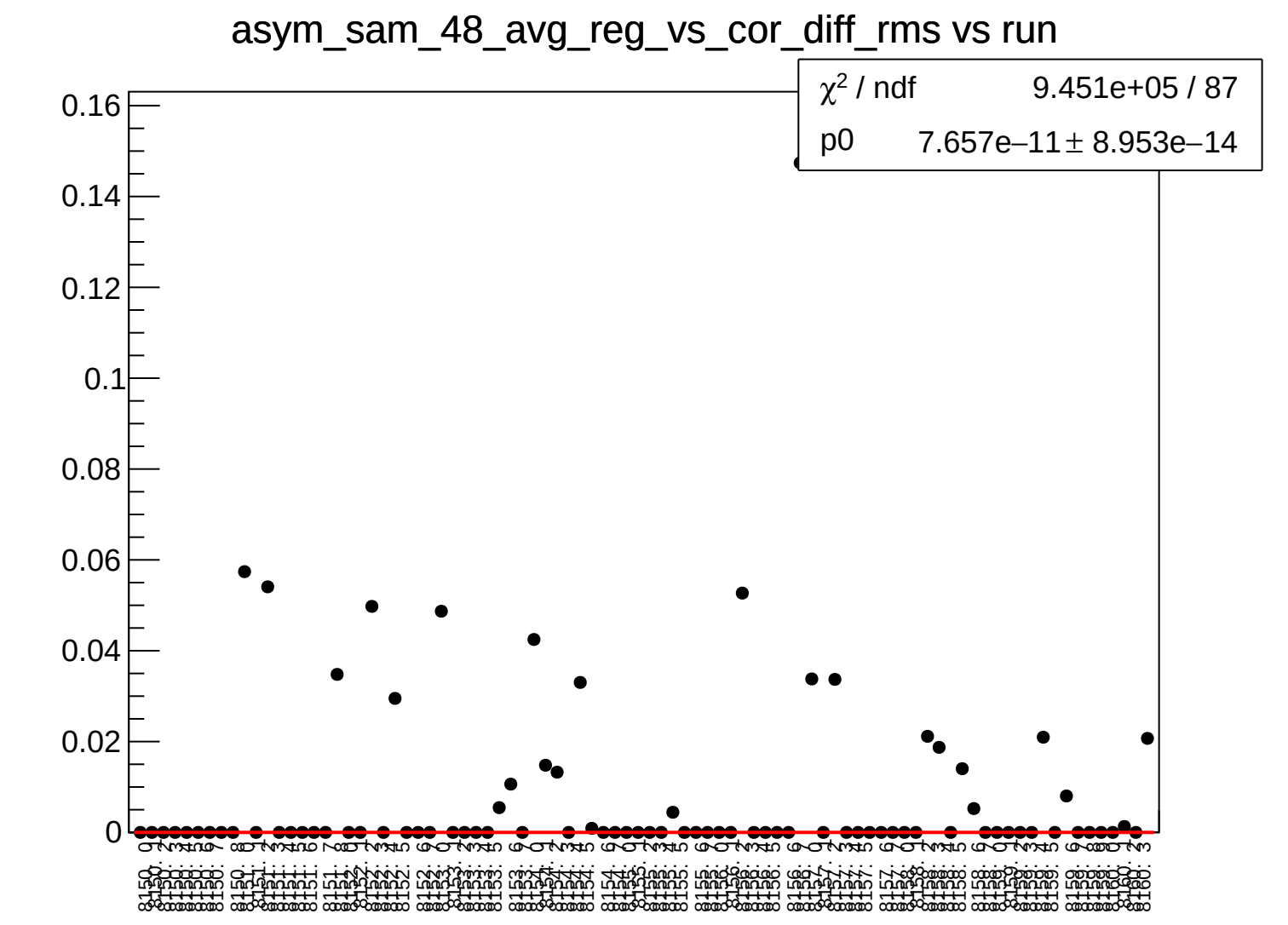

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 94.82 / 87
p0 −3282 ± 2169
pull
Entries 88
Mean −610.1
Std Dev 0
pull1D
Entries 88
Mean −0.003029
Std Dev 1.038

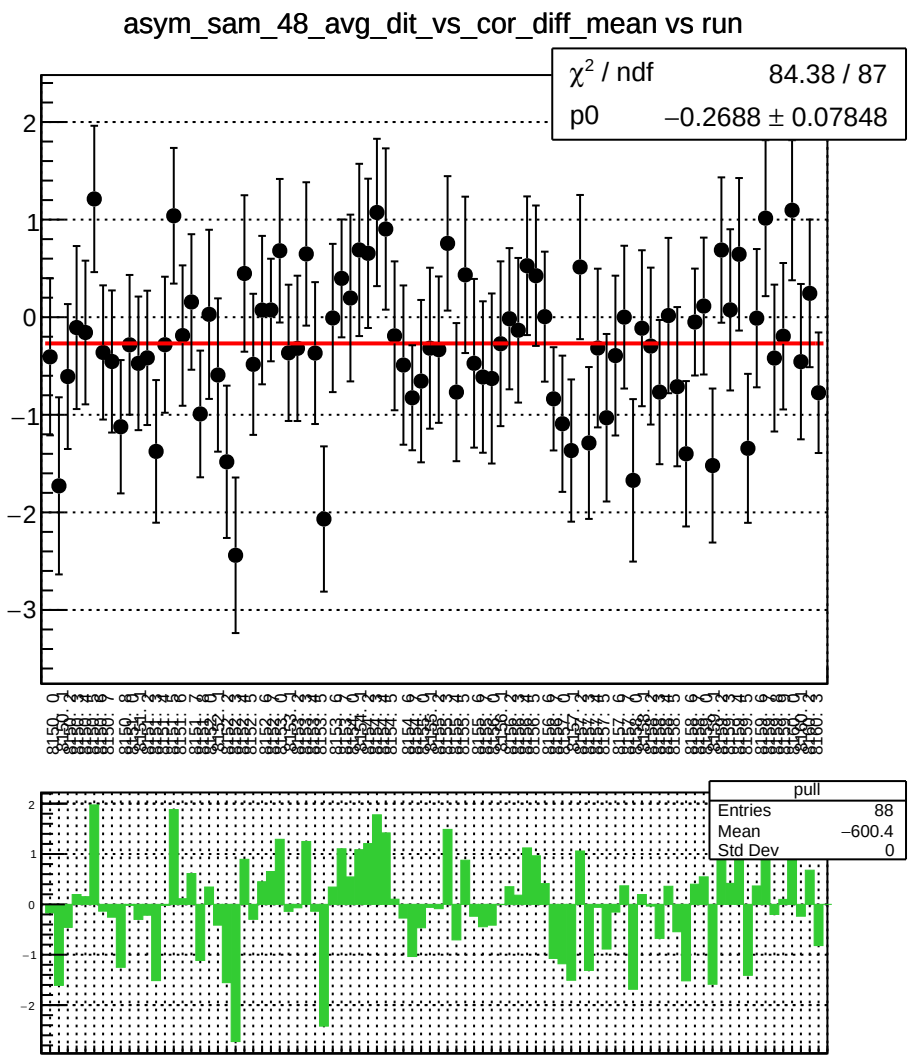

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 872.5 / 87
p0 1985 ± 1.534
2100
2050
2000
1950
1900
1850

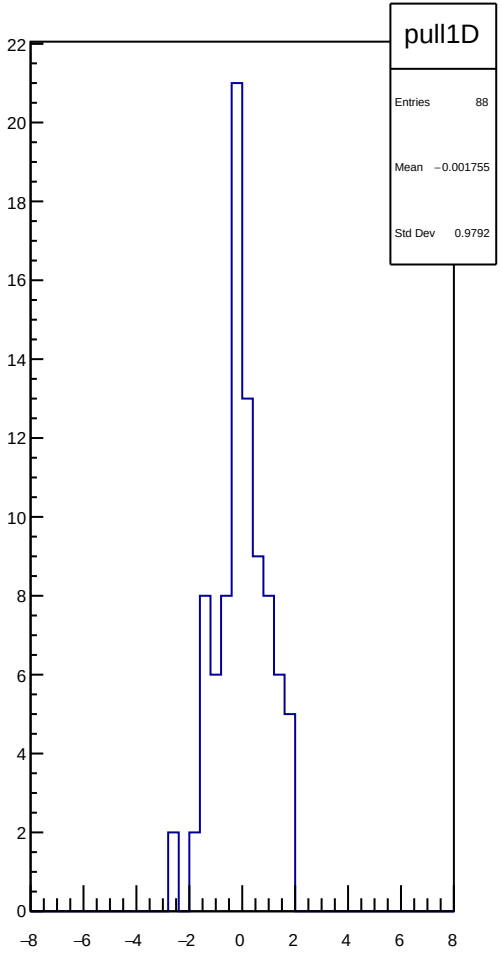

asym_sam_48_avg_mean vs run
χ² / ndf 96.53 / 87
p0 3426 ± 2139
pull
Entries 88
Mean −547
Std Dev 0
pull1D
Entries 88
Mean 0.003192
Std Dev 1.047

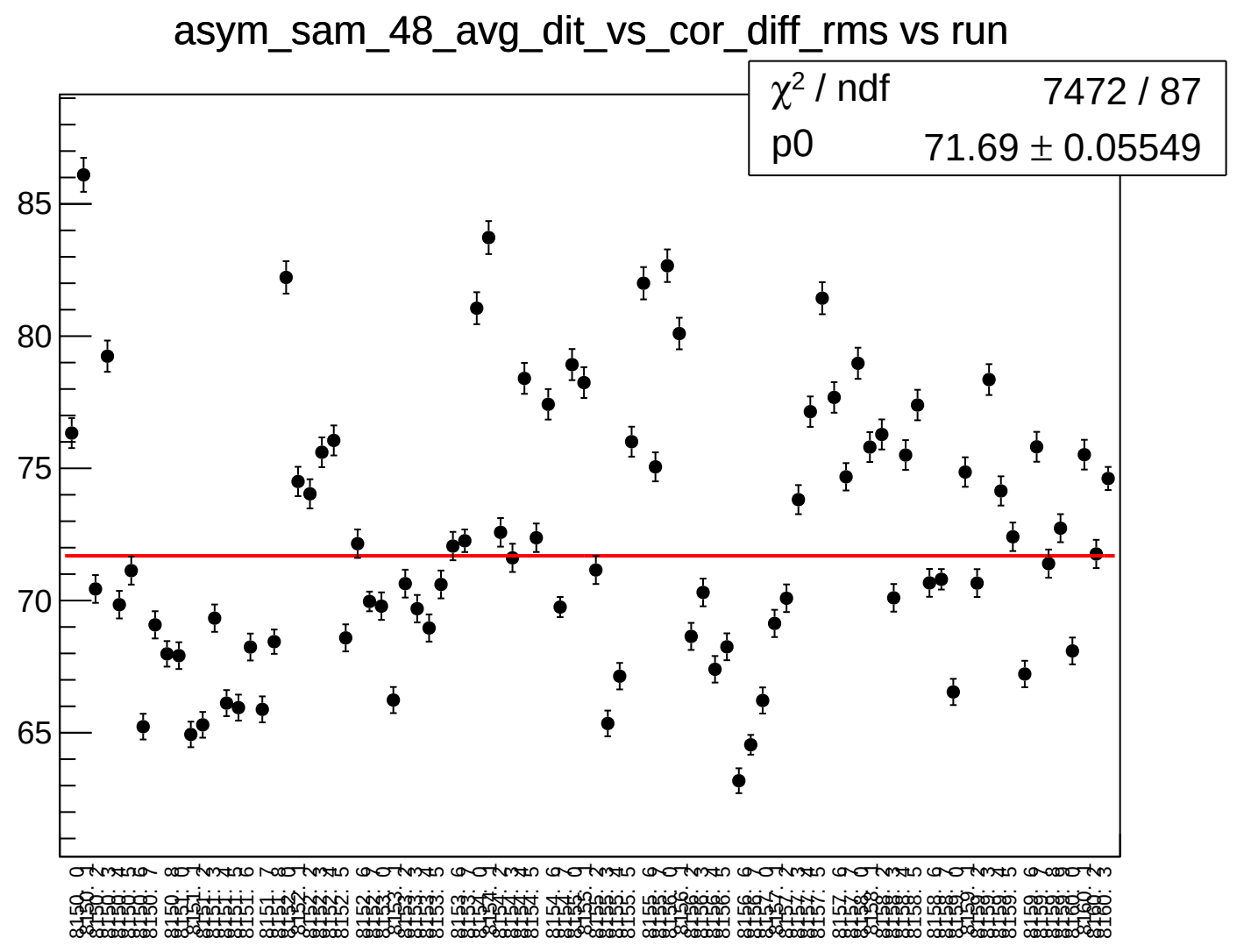

asym_sam_48_avg_rms vs run
χ² / ndf 948.2 / 87
p0 1958 ± 1.513
2100
2050
2000
1950
1900
1850
1800

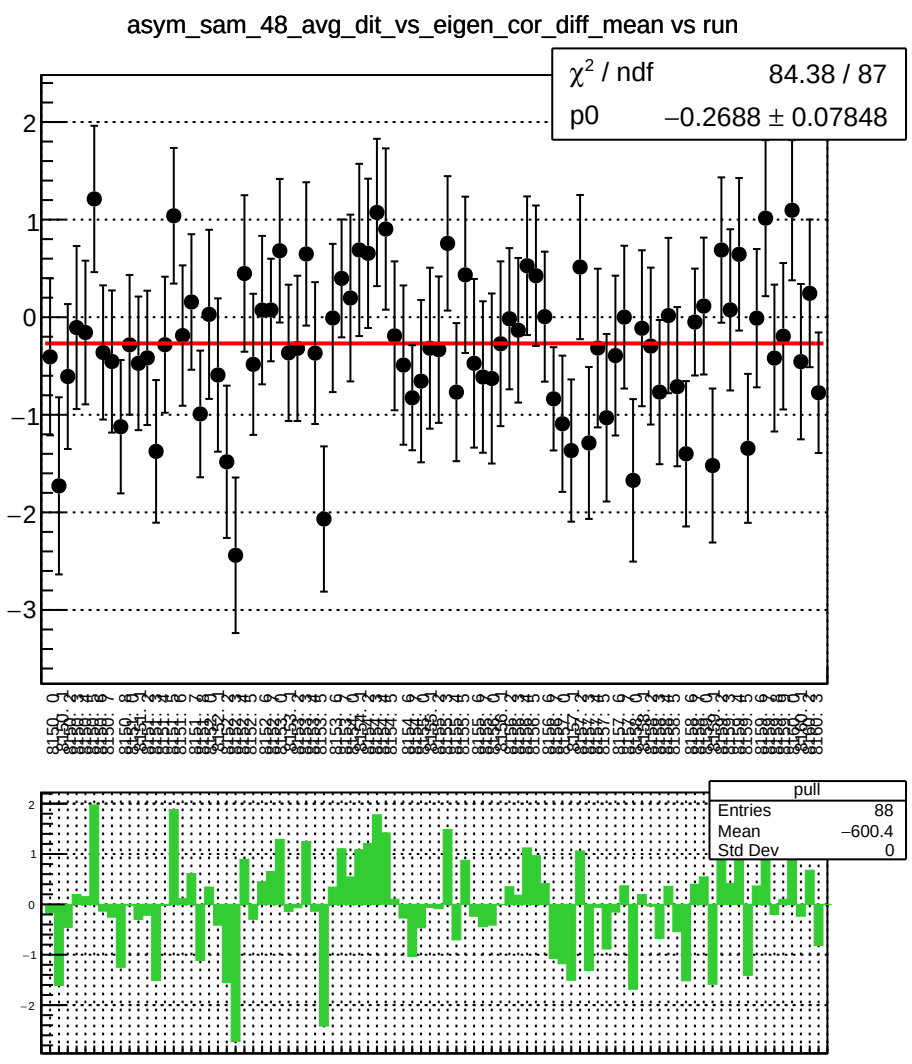

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.84 / 87
p0 3.06e−13 ± 1.266e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean −68.65
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.02156
Std Dev 0.9758
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

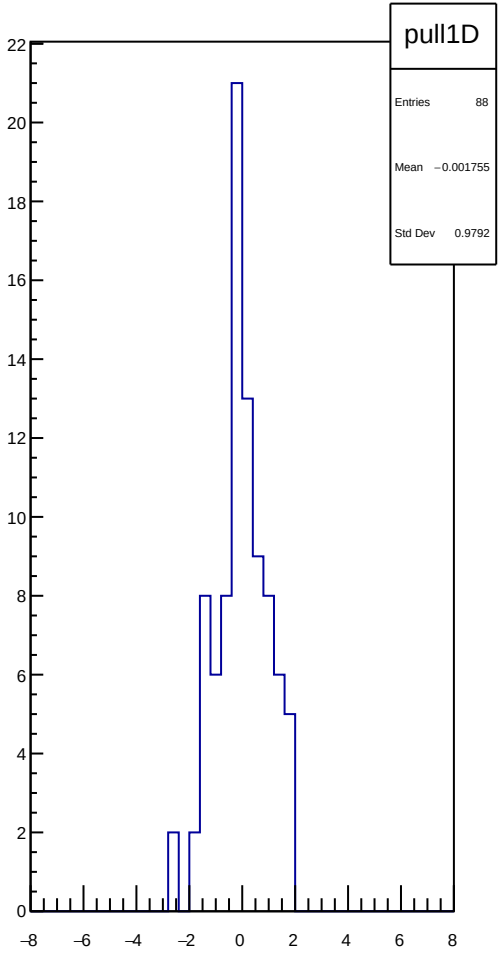

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.451e+05 / 87
p0 7.657e−11 ± 8.953e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

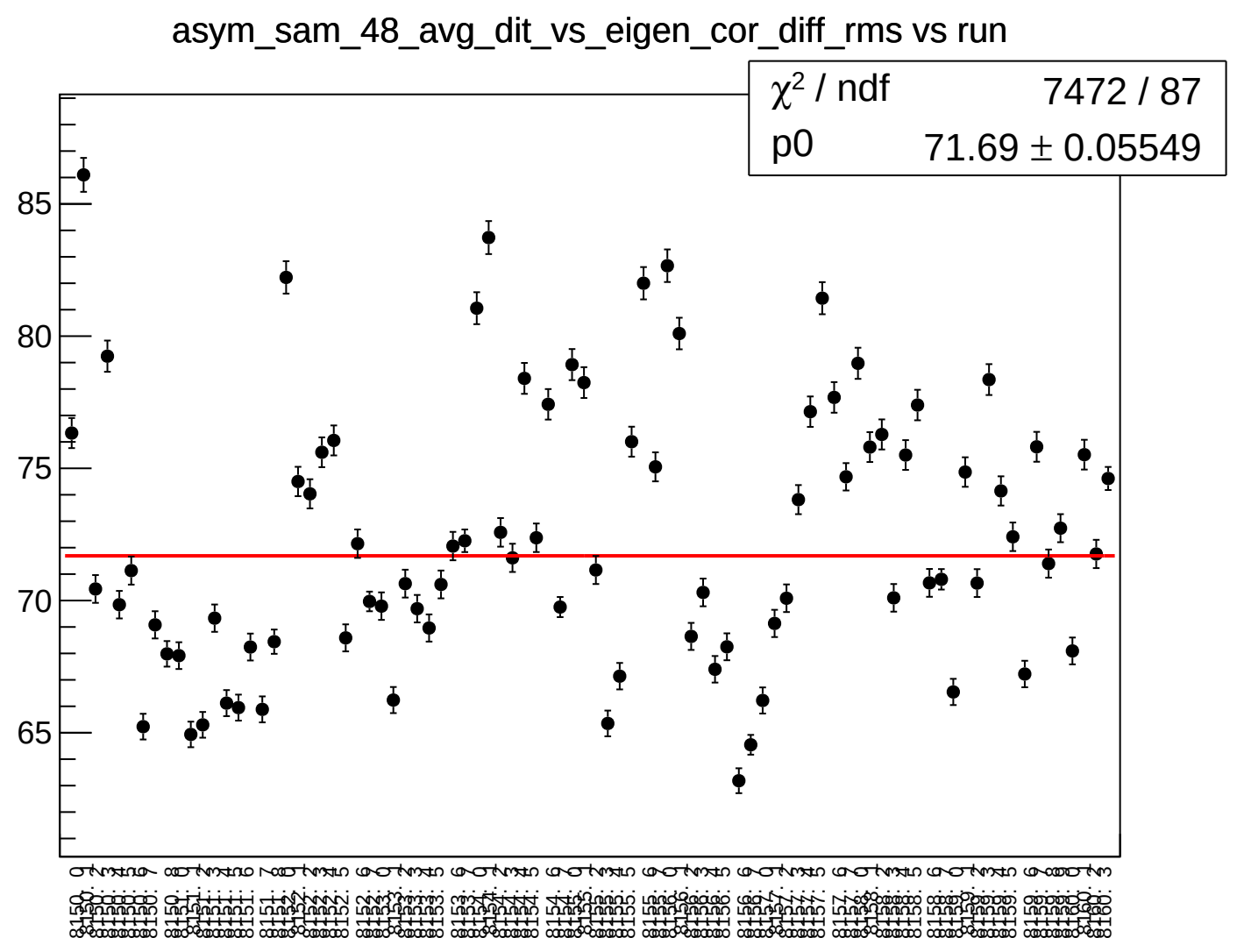

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.38 / 87
p0 −0.2688 ± 0.07848
pull
Entries 88
Mean −600.4
Std Dev 0

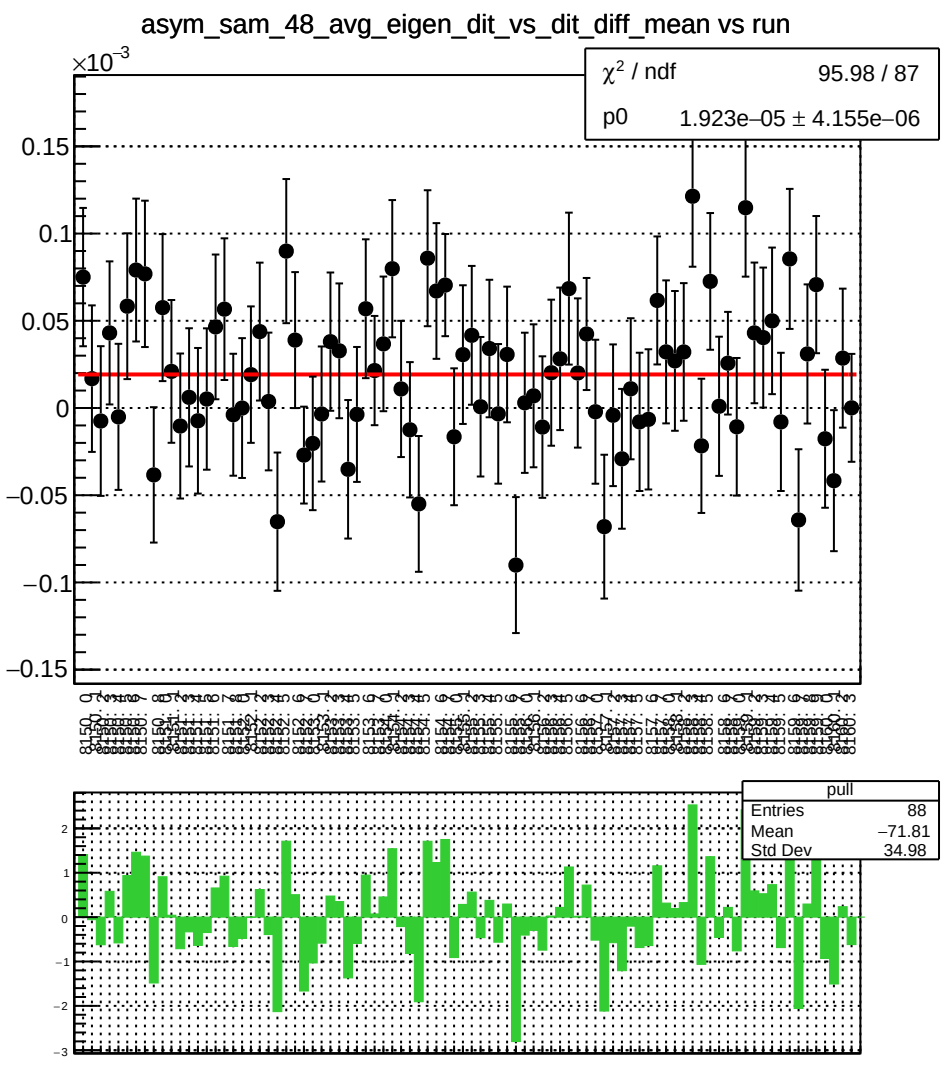

pull1D
Entries 88
Mean −0.001755
Std Dev 0.9792

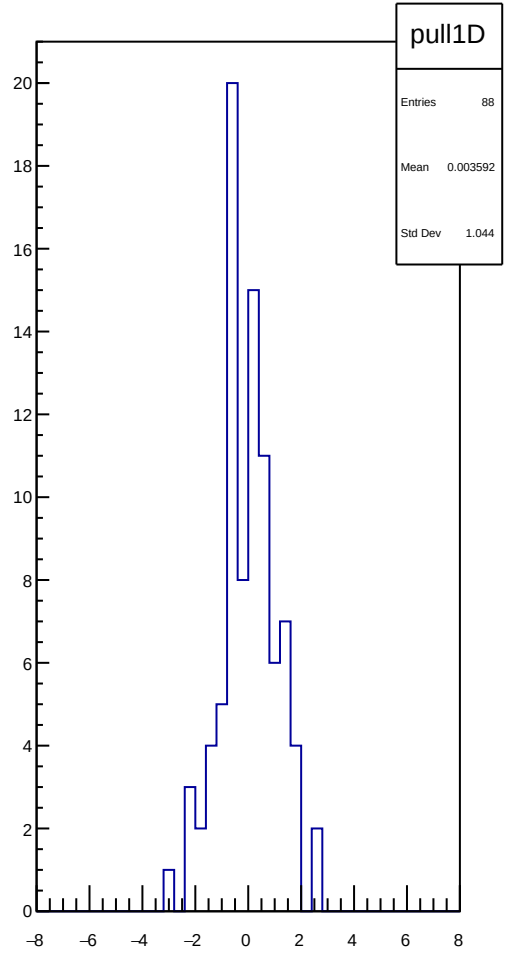

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7472 / 87
p0 71.69 ± 0.05549
85
80
75
70
65

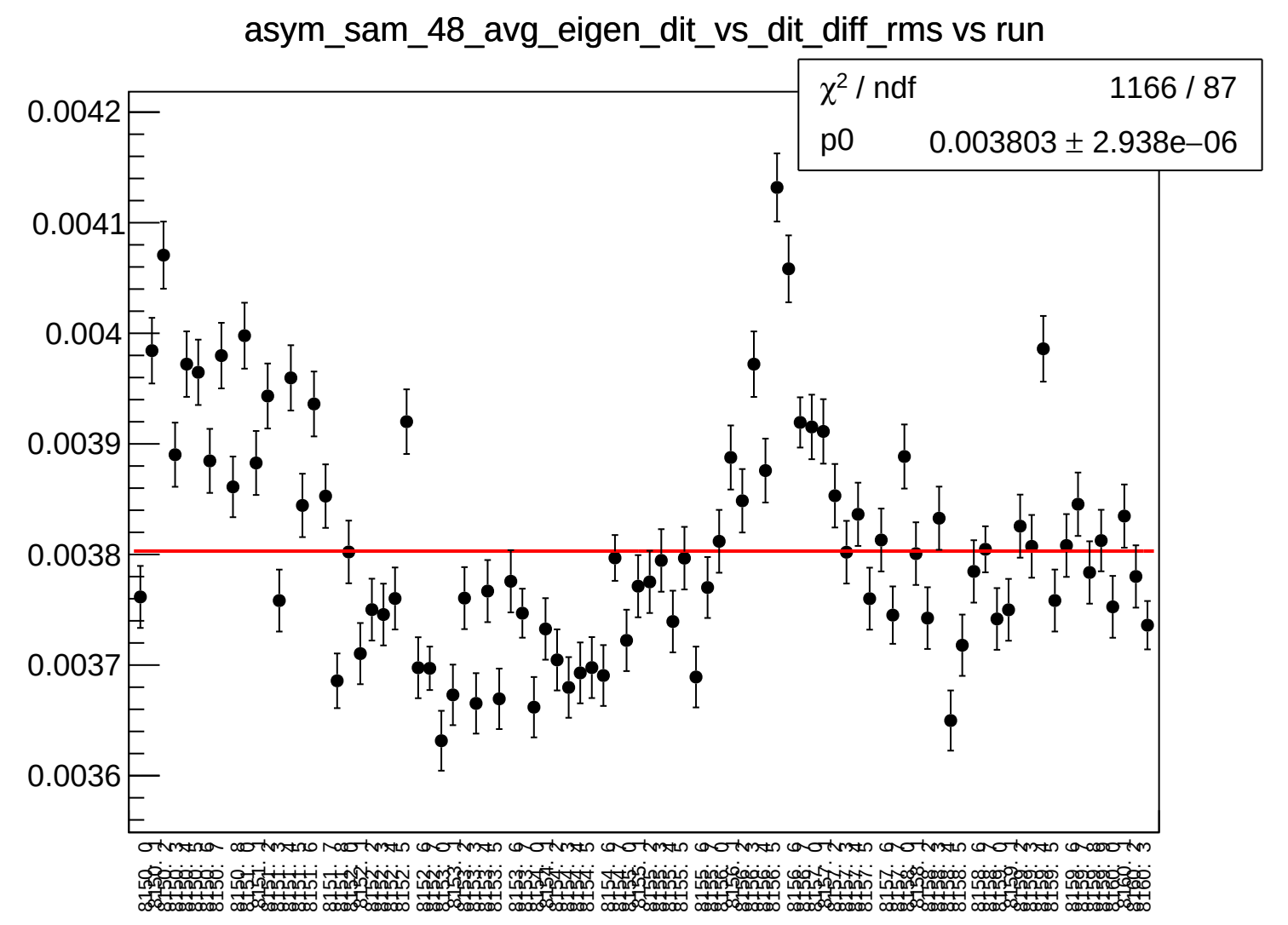

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.38 / 87
p0 −0.2688 ± 0.07848
pull
Entries 88
Mean −600.4
Std Dev 0

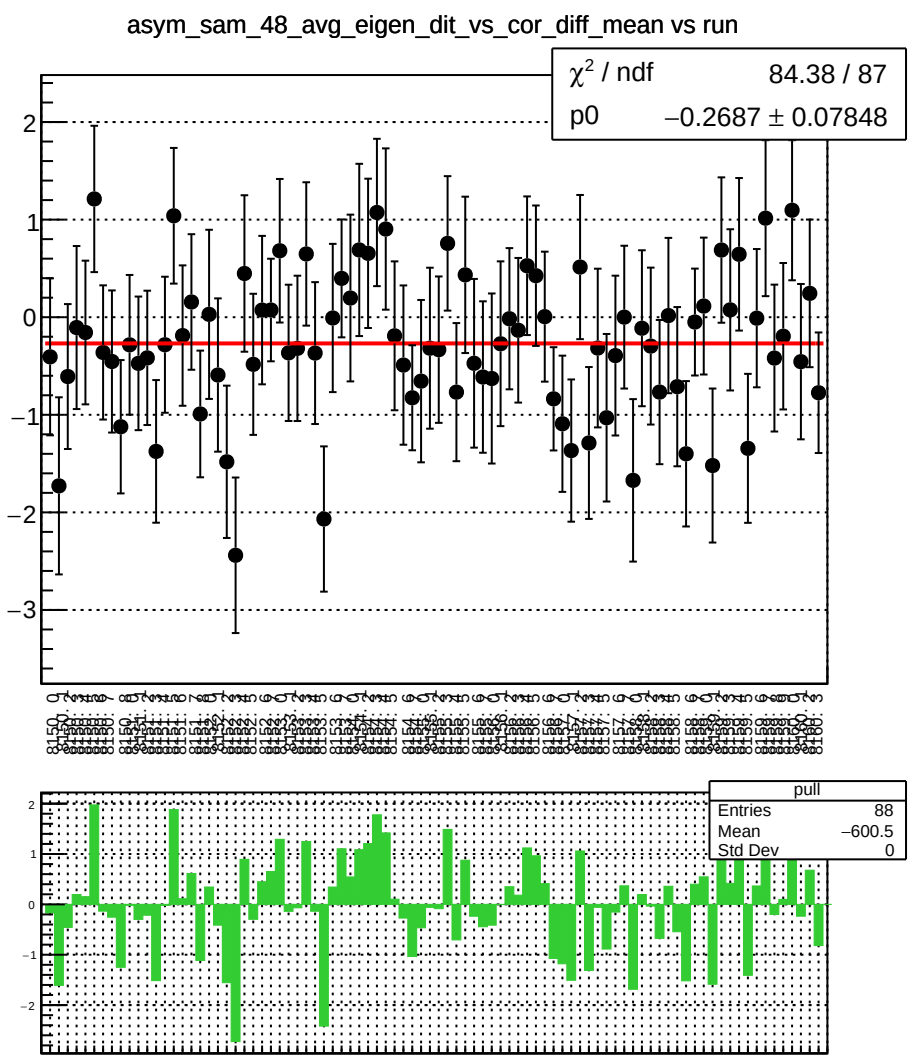

pull1D
Entries 88
Mean −0.001755
Std Dev 0.9792

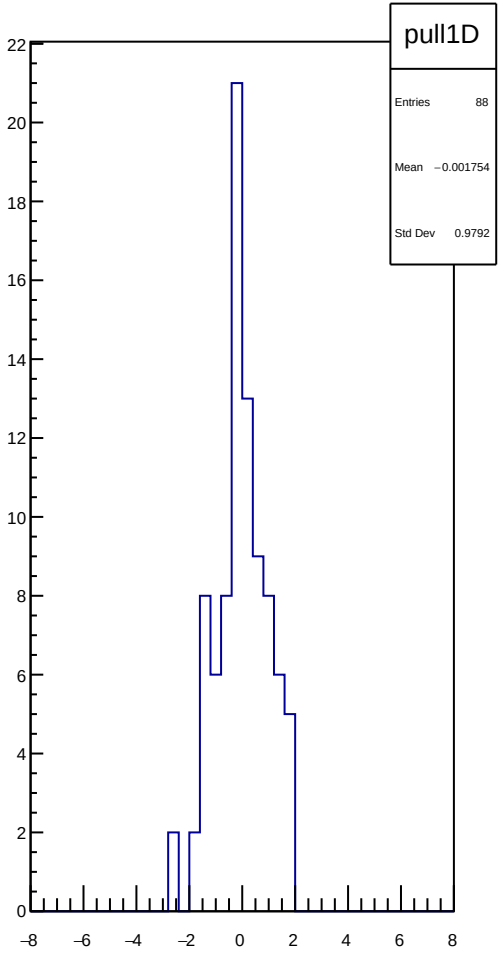

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7472 / 87
p0 71.69 ± 0.05549
85
80
75
70
65

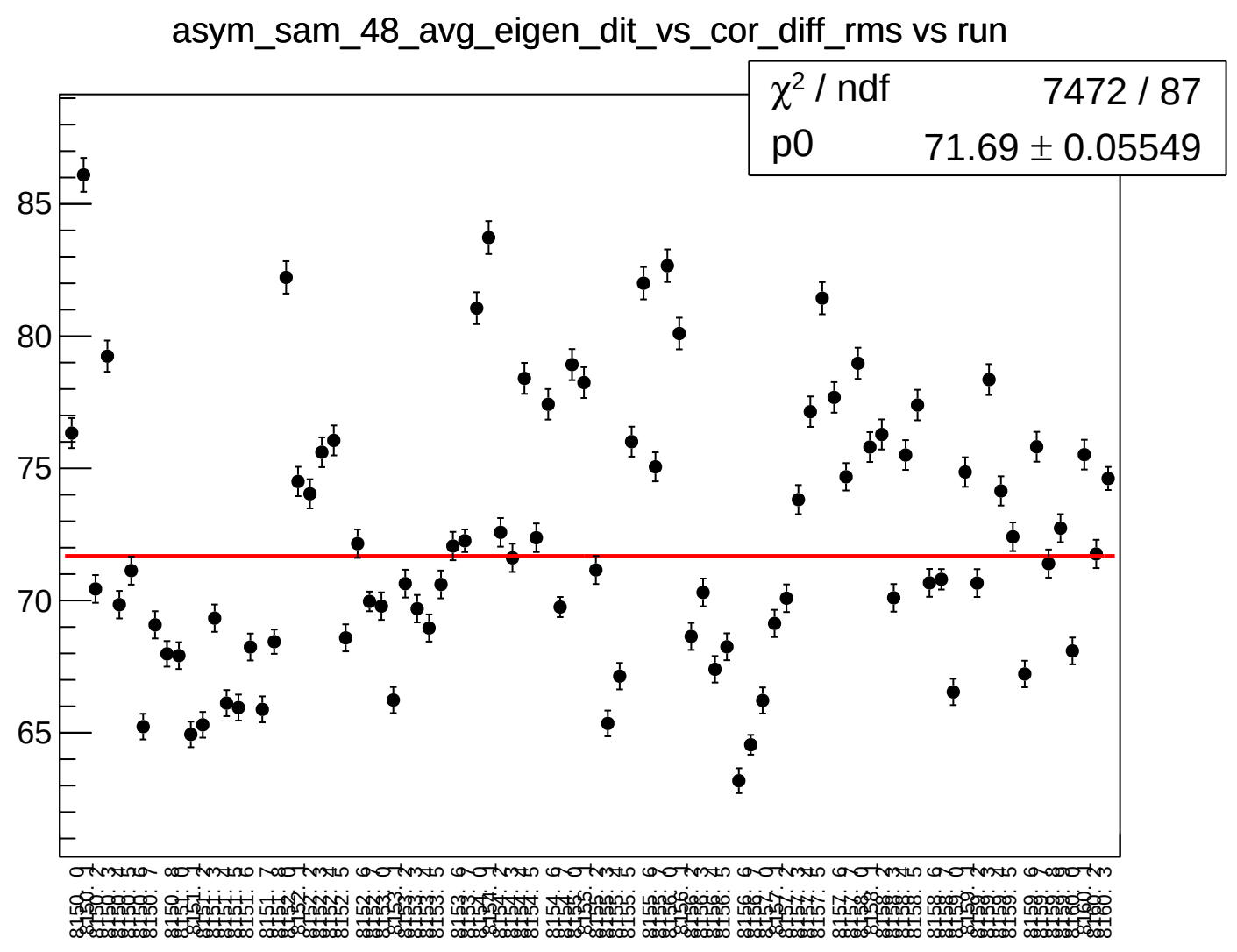

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.98 / 87
p0 1.923e−05 ± 4.155e−06
pull
Entries 88
Mean −71.81
Std Dev 34.98

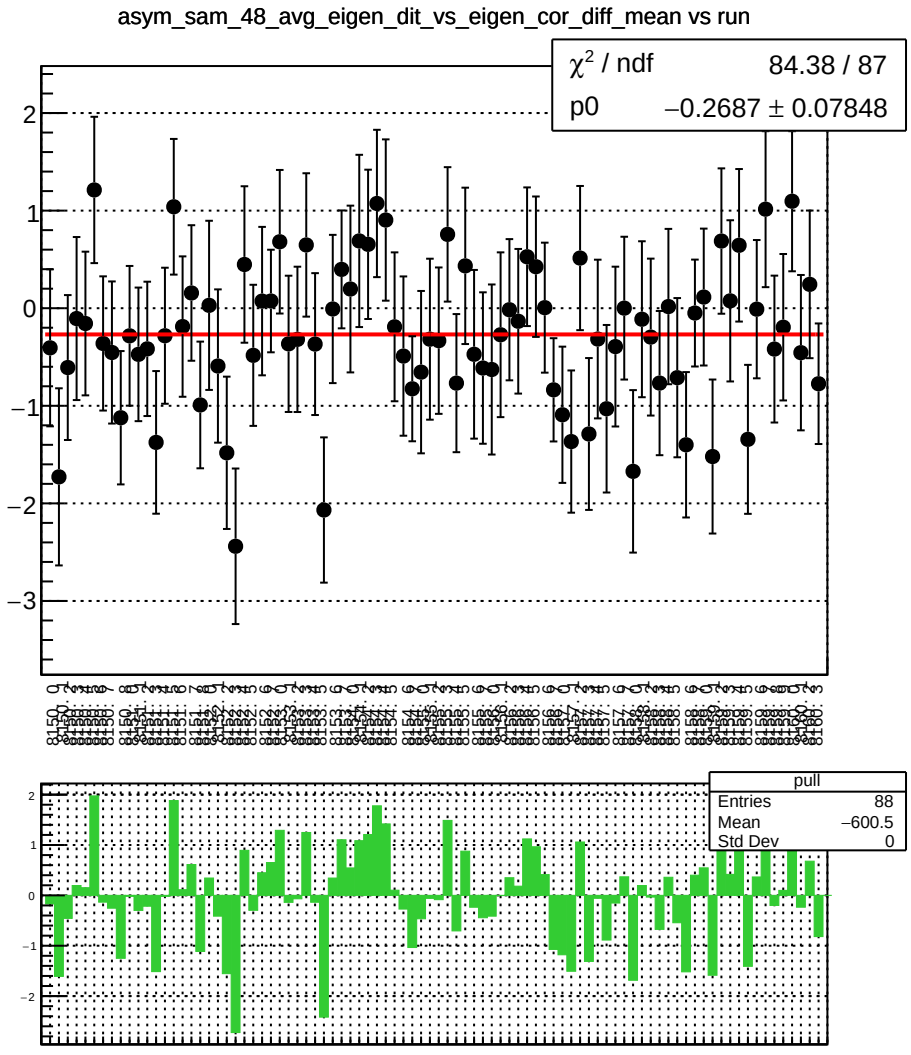

pull1D
Entries 88
Mean 0.003592
Std Dev 1.044

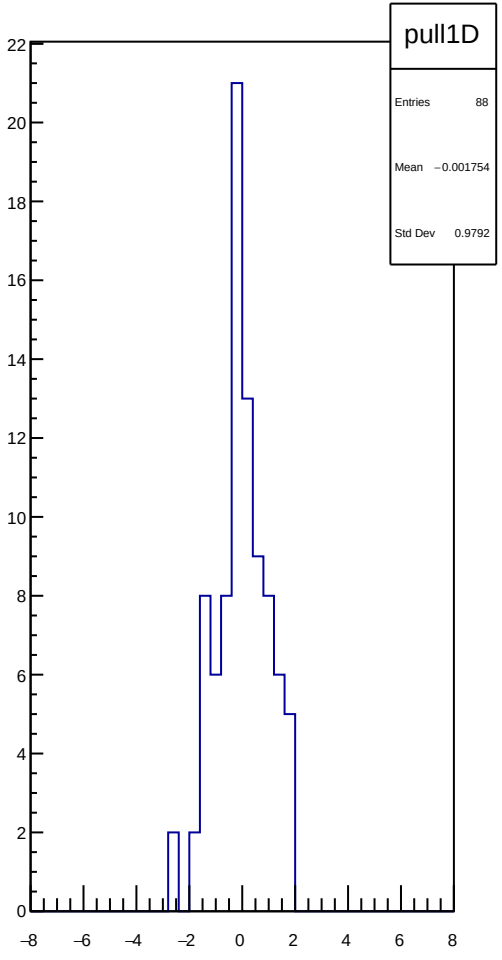

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1166 / 87
p0 0.003803 ± 2.938e−06
0.0042
0.0041
0.004
0.0039
0.0038
0.0037
0.0036

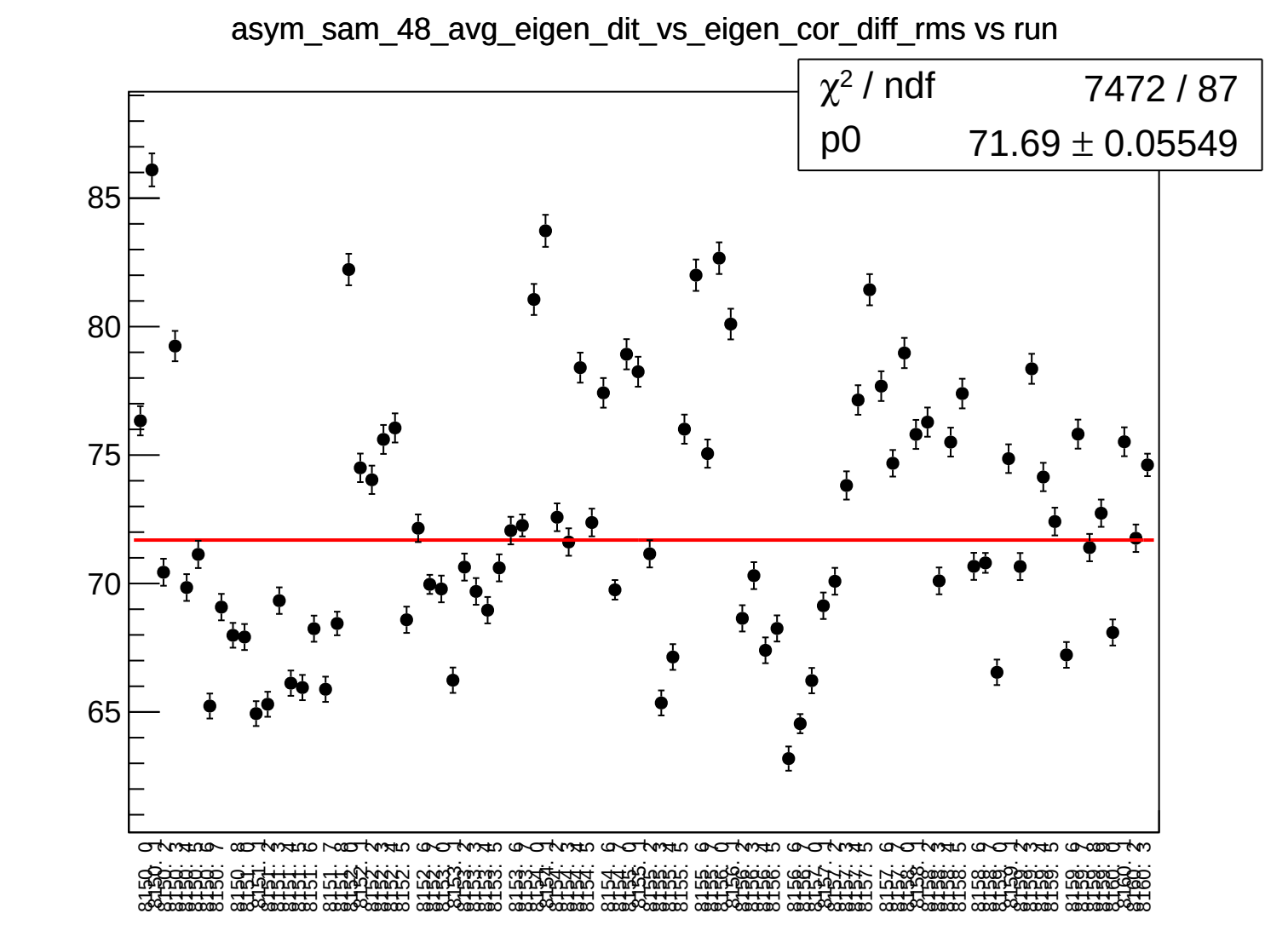

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.38 / 87
p0 −0.2687 ± 0.07848
pull
Entries 88
Mean −600.5
Std Dev 0

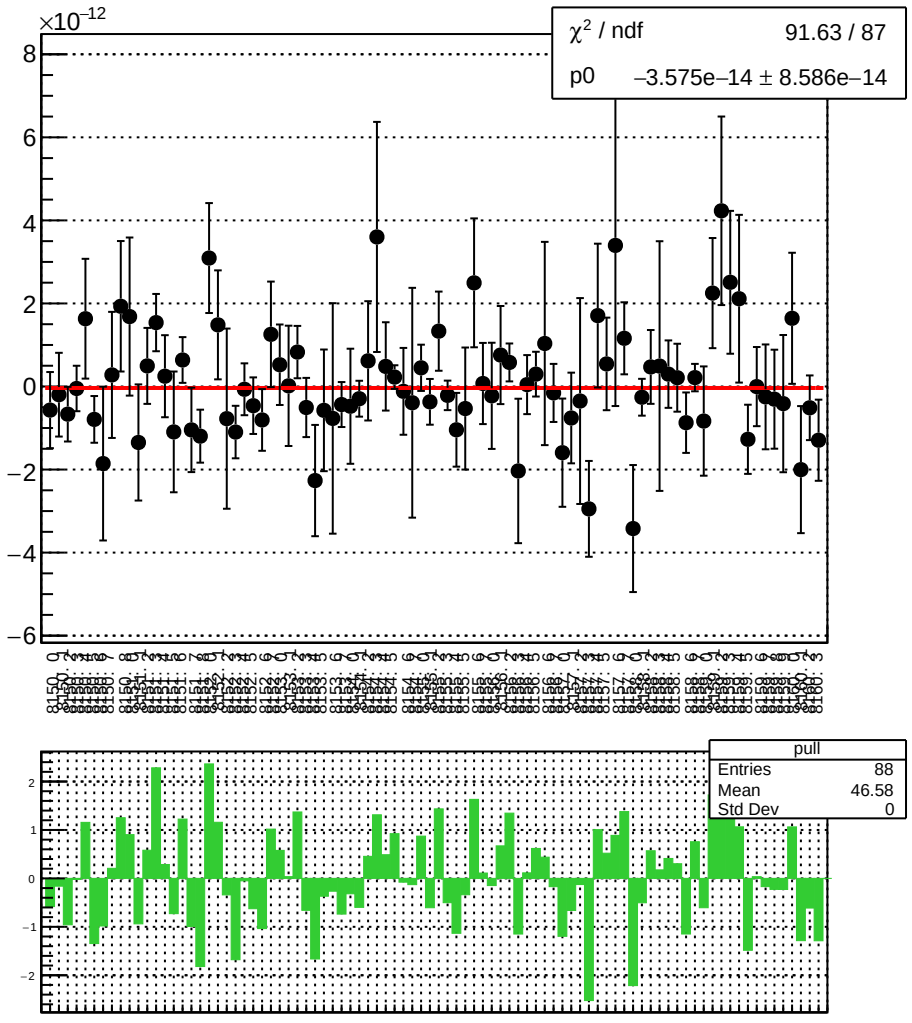

pull1D
Entries 88
Mean −0.001754
Std Dev 0.9792

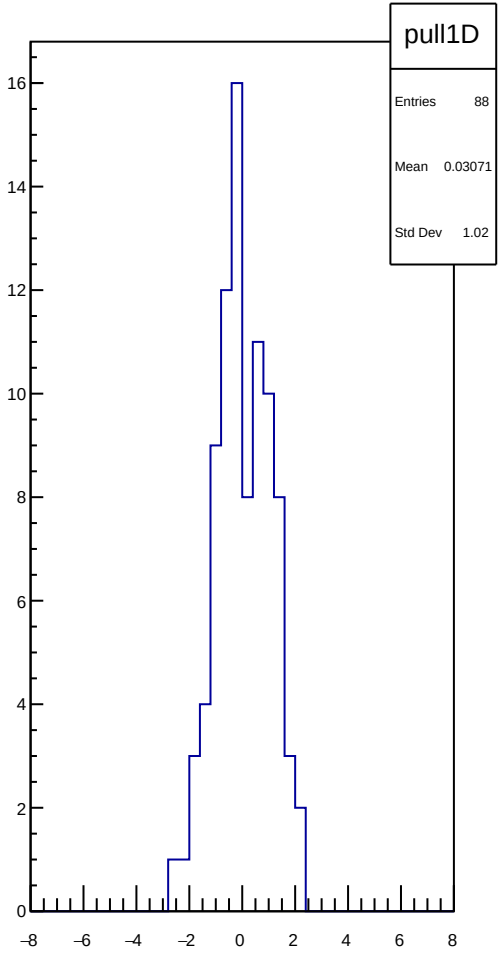

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7472 / 87
p0 71.69 ± 0.05549
85
80
75
70
65

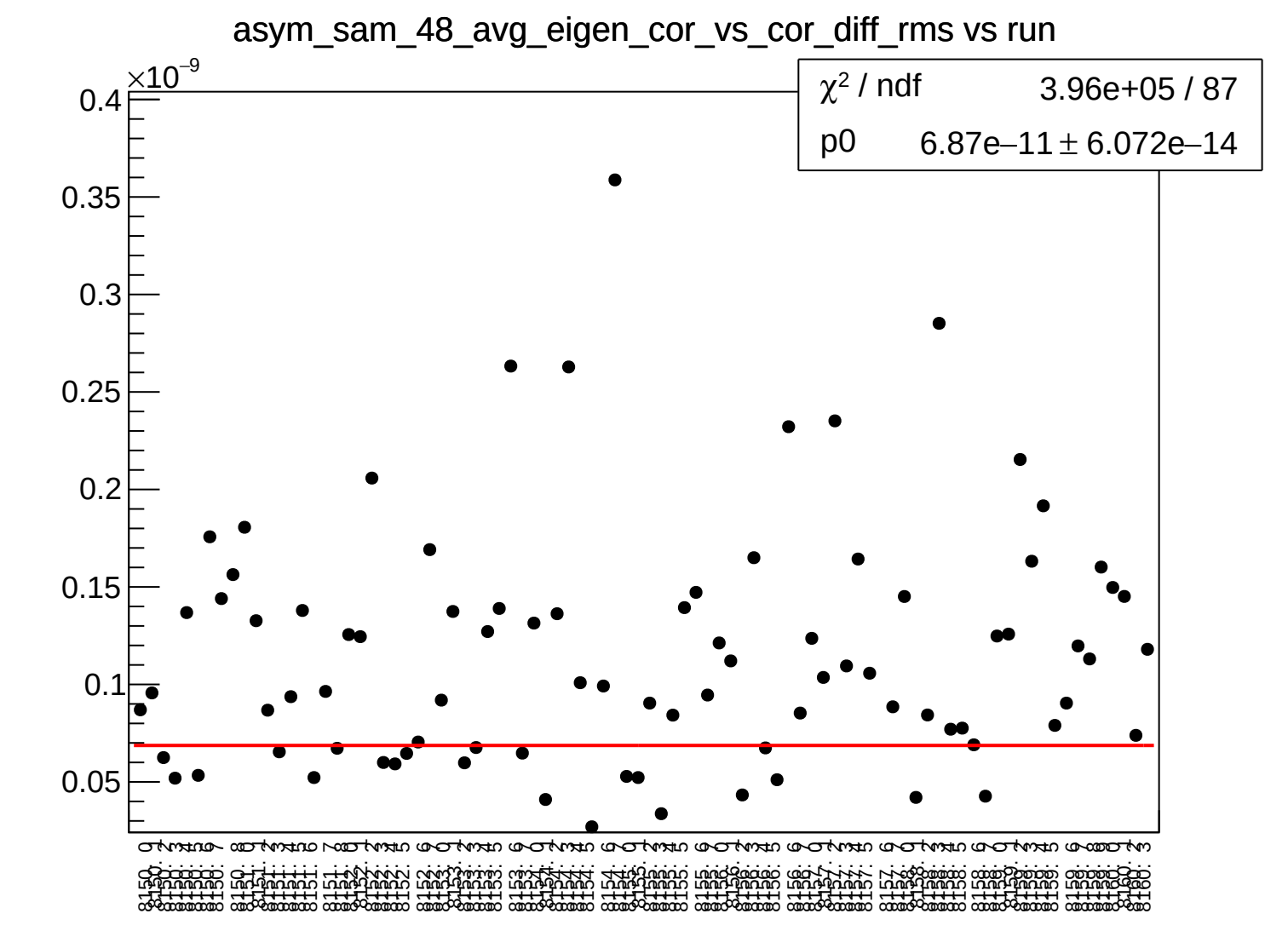

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.38 / 87
p0 −0.2687 ± 0.07848
pull
Entries 88
Mean −600.5
Std Dev 0

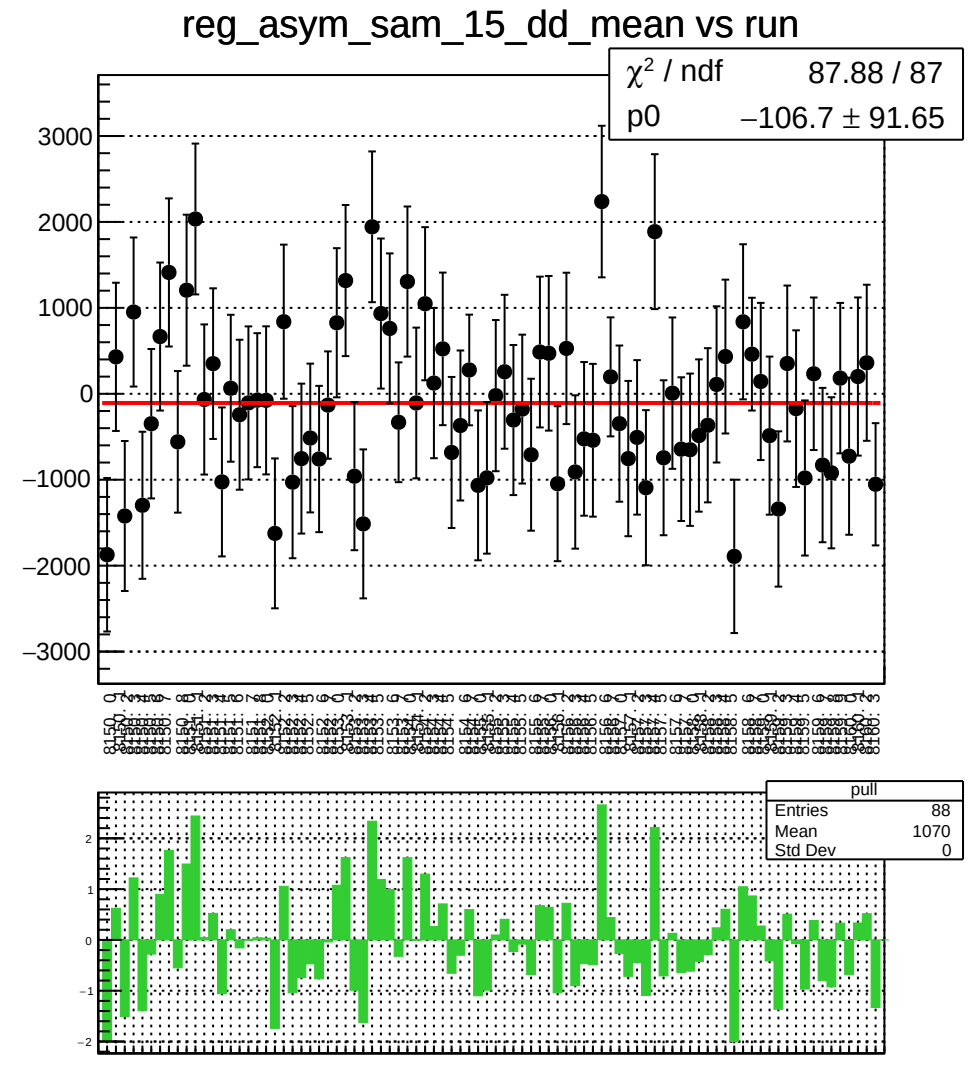

pull1D
Entries 88
Mean −0.001754
Std Dev 0.9792

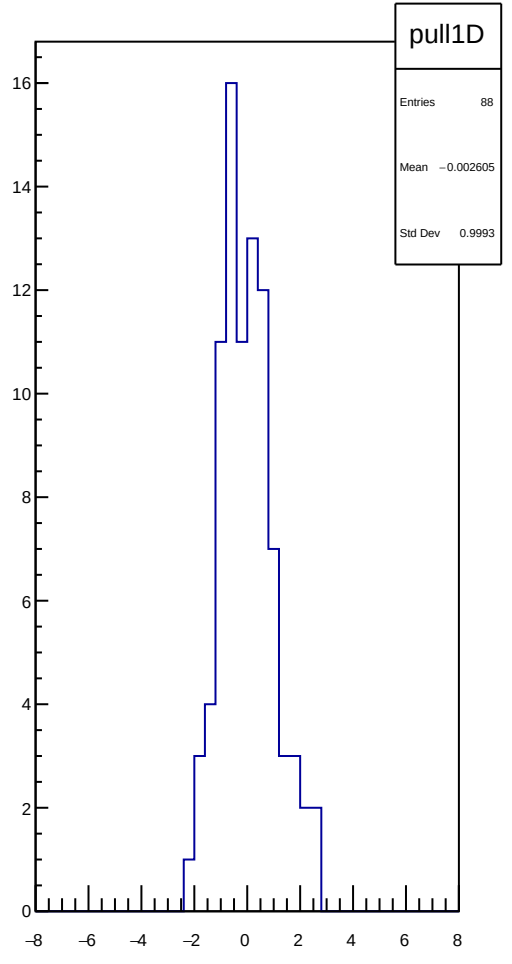

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7472 / 87
p0 71.69 ± 0.05549
85
80
75
70
65

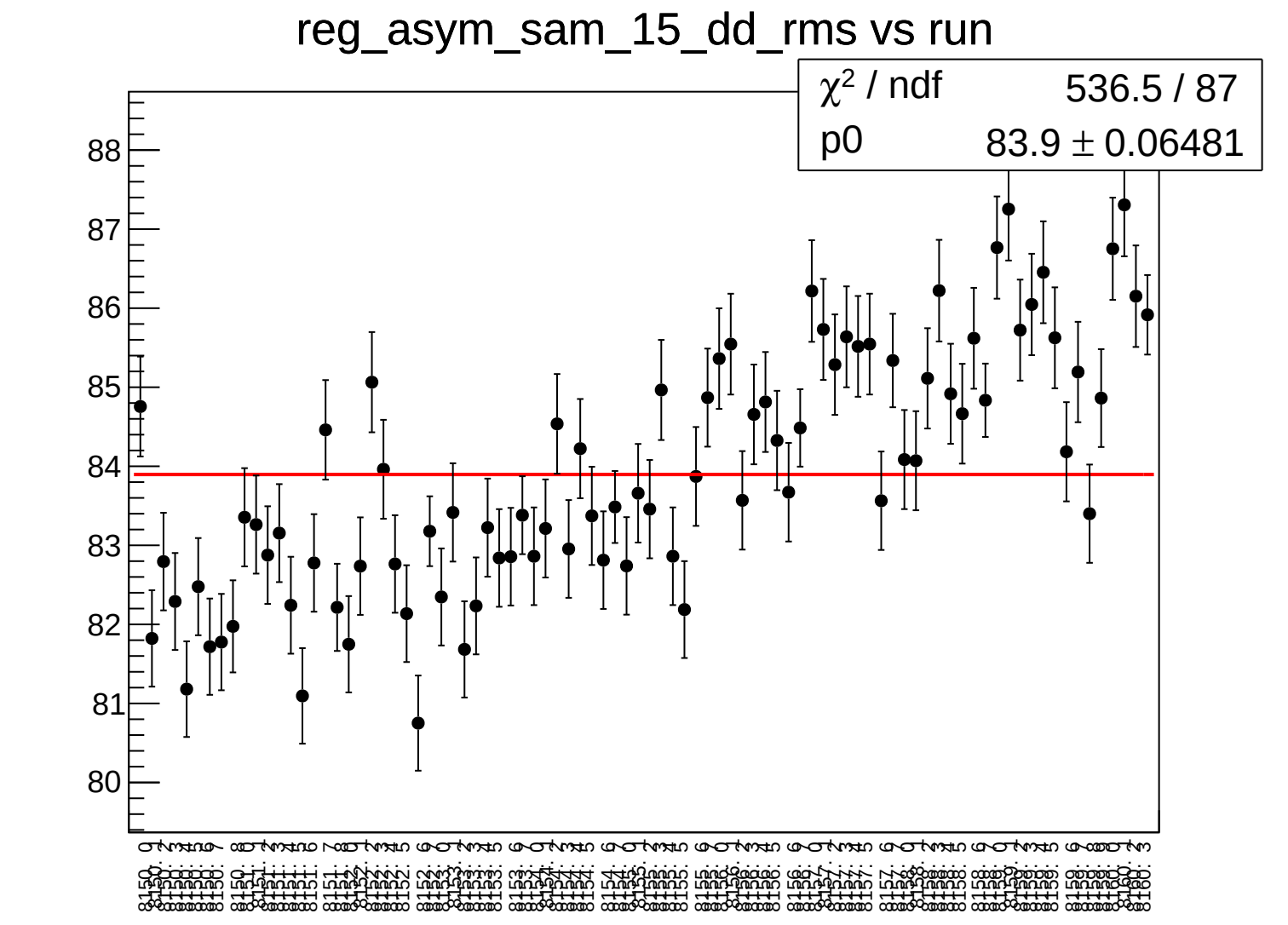

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.63 / 87
p0 −3.575e−14 ± 8.586e−14
pull
Entries 88
Mean 46.58
Std Dev 0

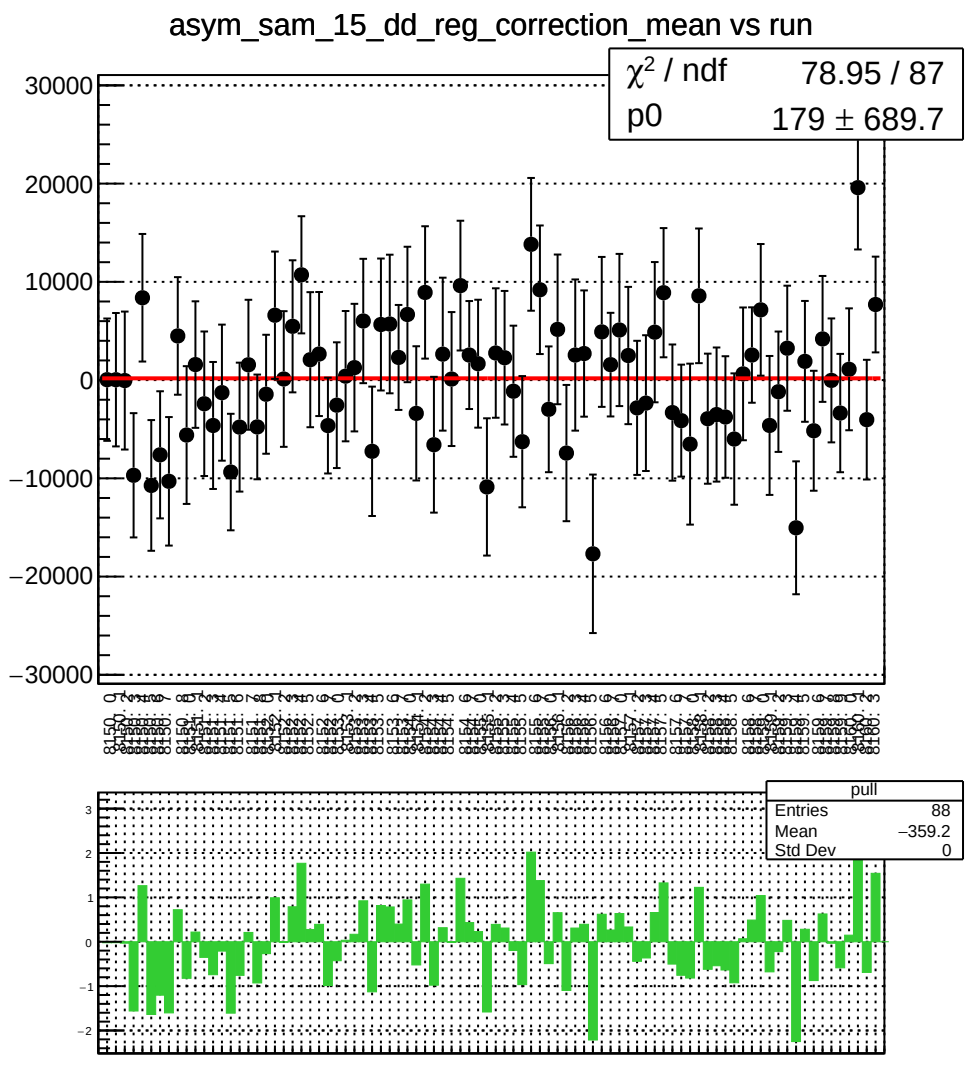

pull1D
Entries 88
Mean 0.03071
Std Dev 1.02

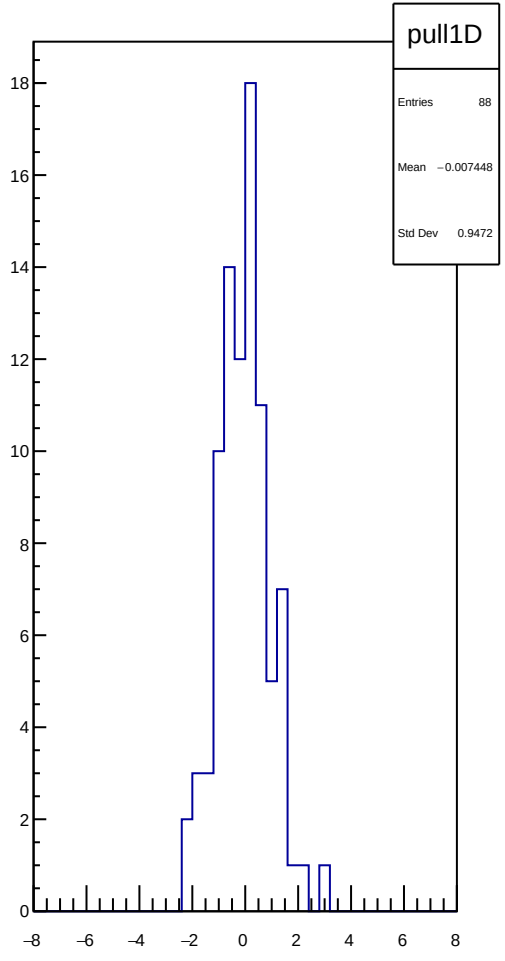

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.96e+05 / 87
p0 6.87e−11 ± 6.072e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

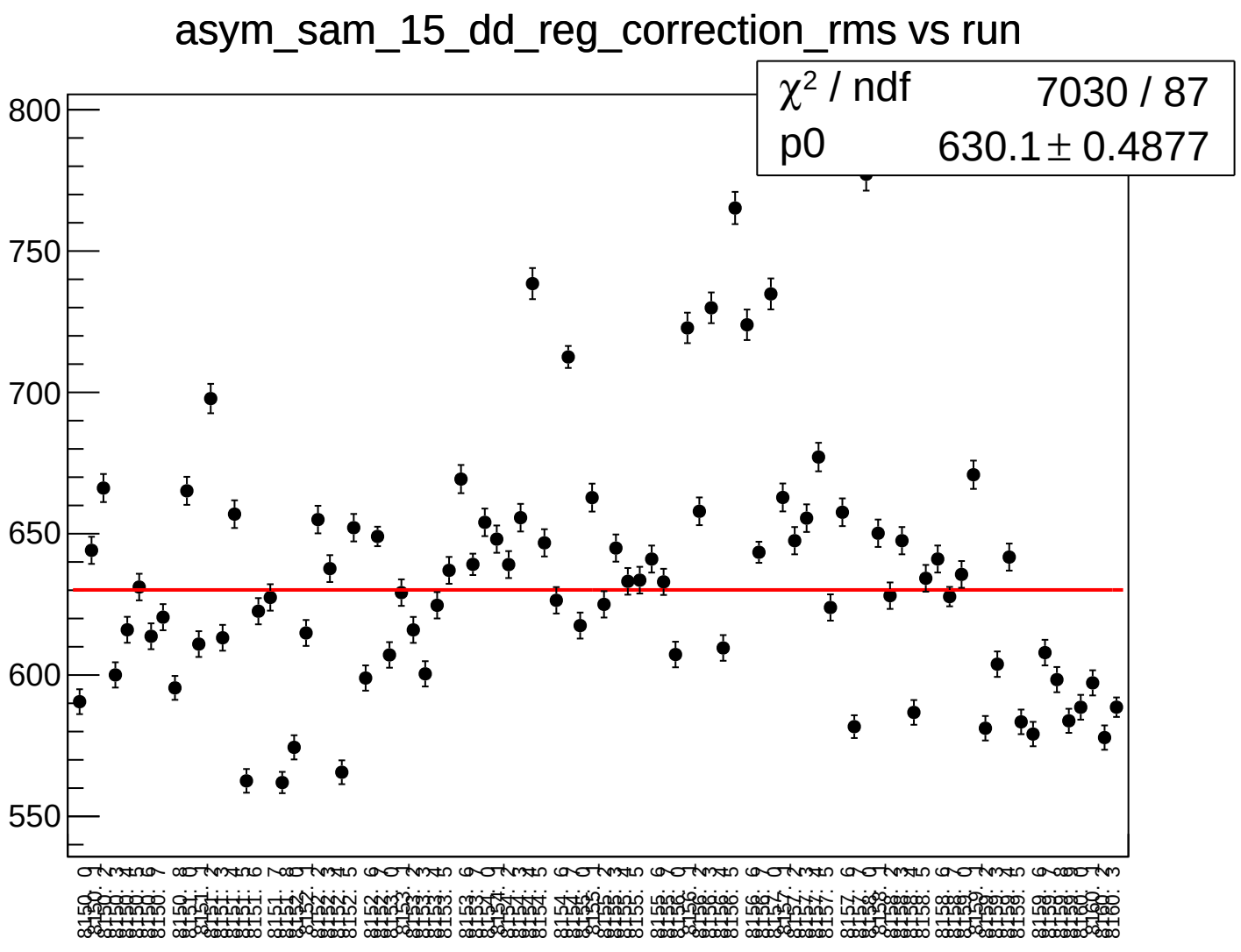

reg_asym_sam_15_dd_mean vs run
χ² / ndf 87.88 / 87
p0 −106.7 ± 91.65
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 1070
Std Dev 0
2
1
0
−1
−2

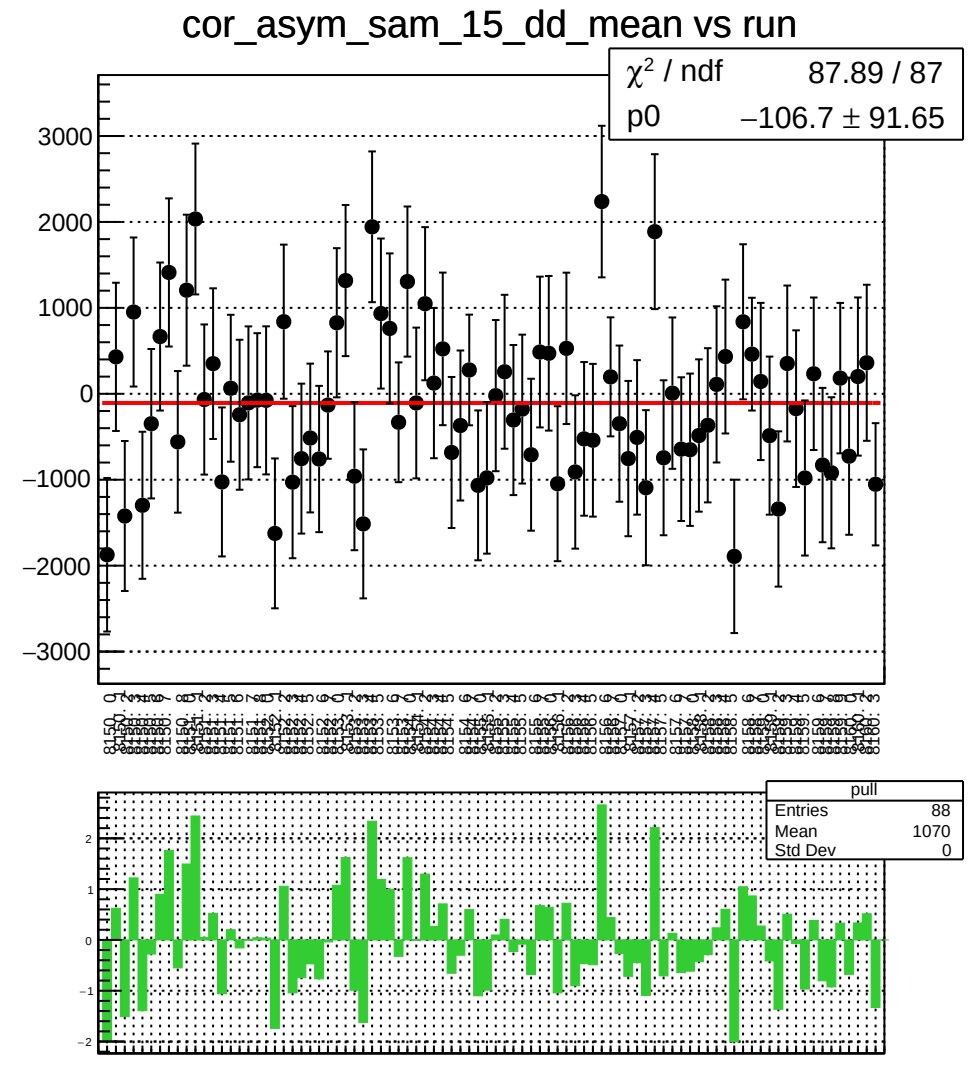

pull1D
Entries 88
Mean −0.002605
Std Dev 0.9993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

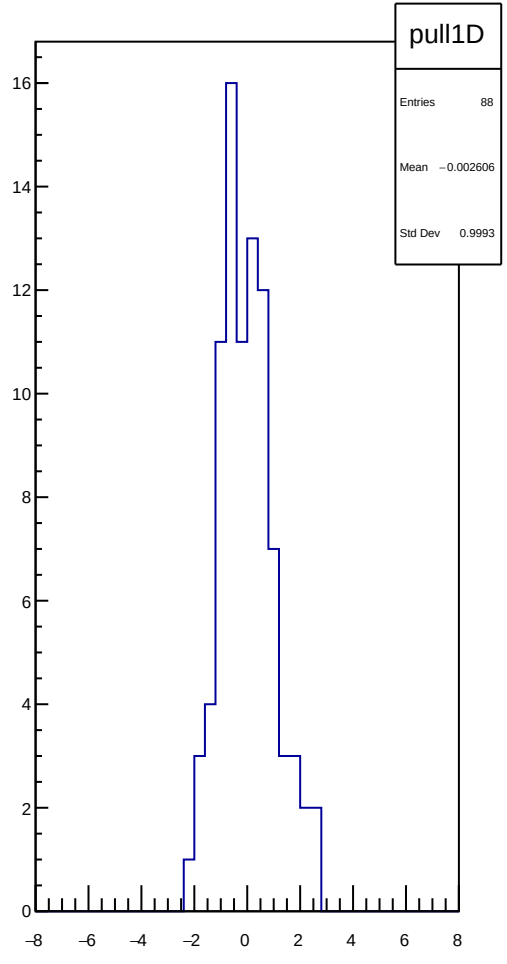

reg_asym_sam_15_dd_rms vs run
χ² / ndf 536.5 / 87
p0 83.9 ± 0.06481
88
87
86
85
84
83
82
81
80

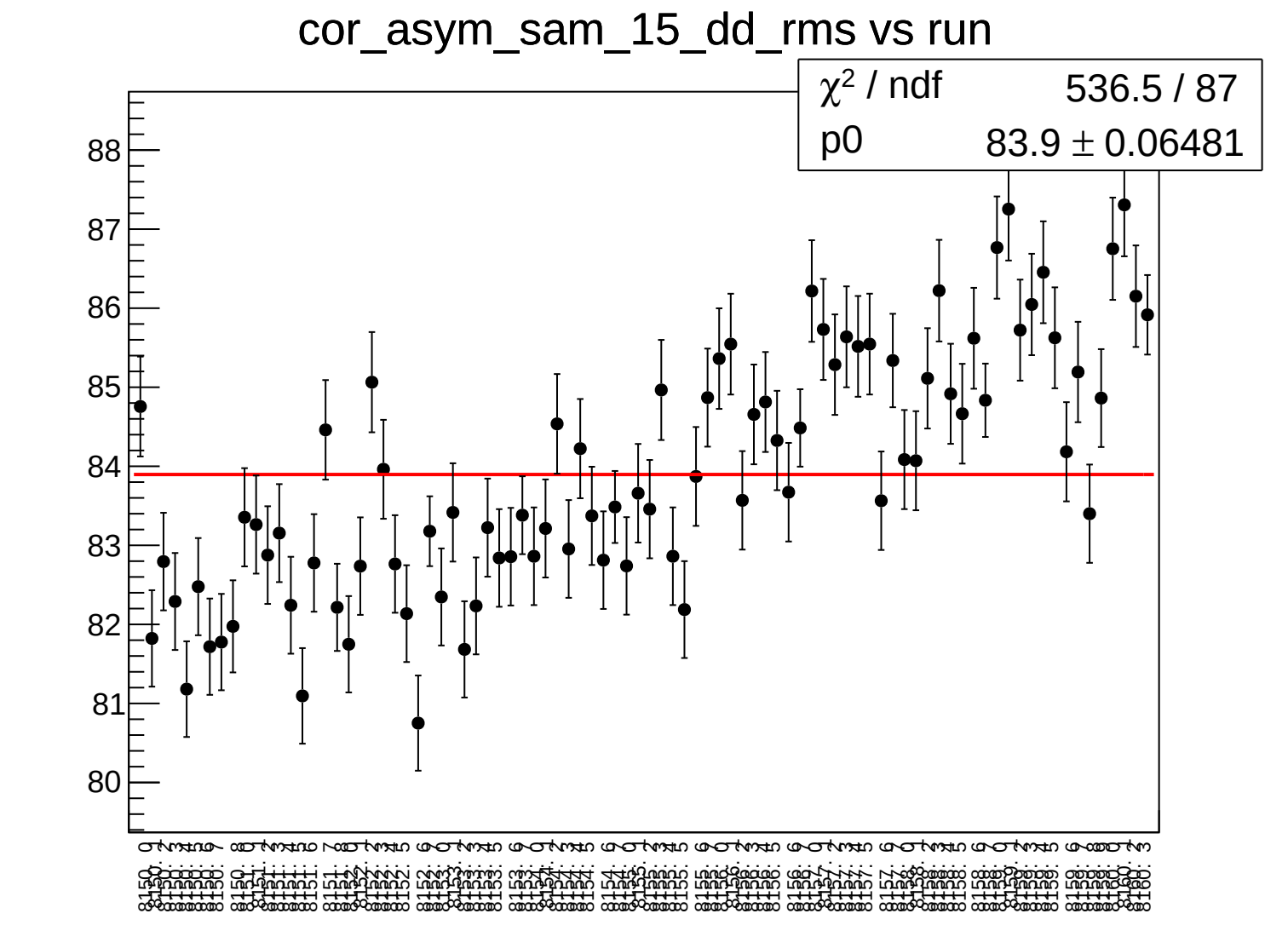

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 78.95 / 87
p0 179 ± 689.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −359.2
Std Dev 0
3
2
1
0
−1
−2

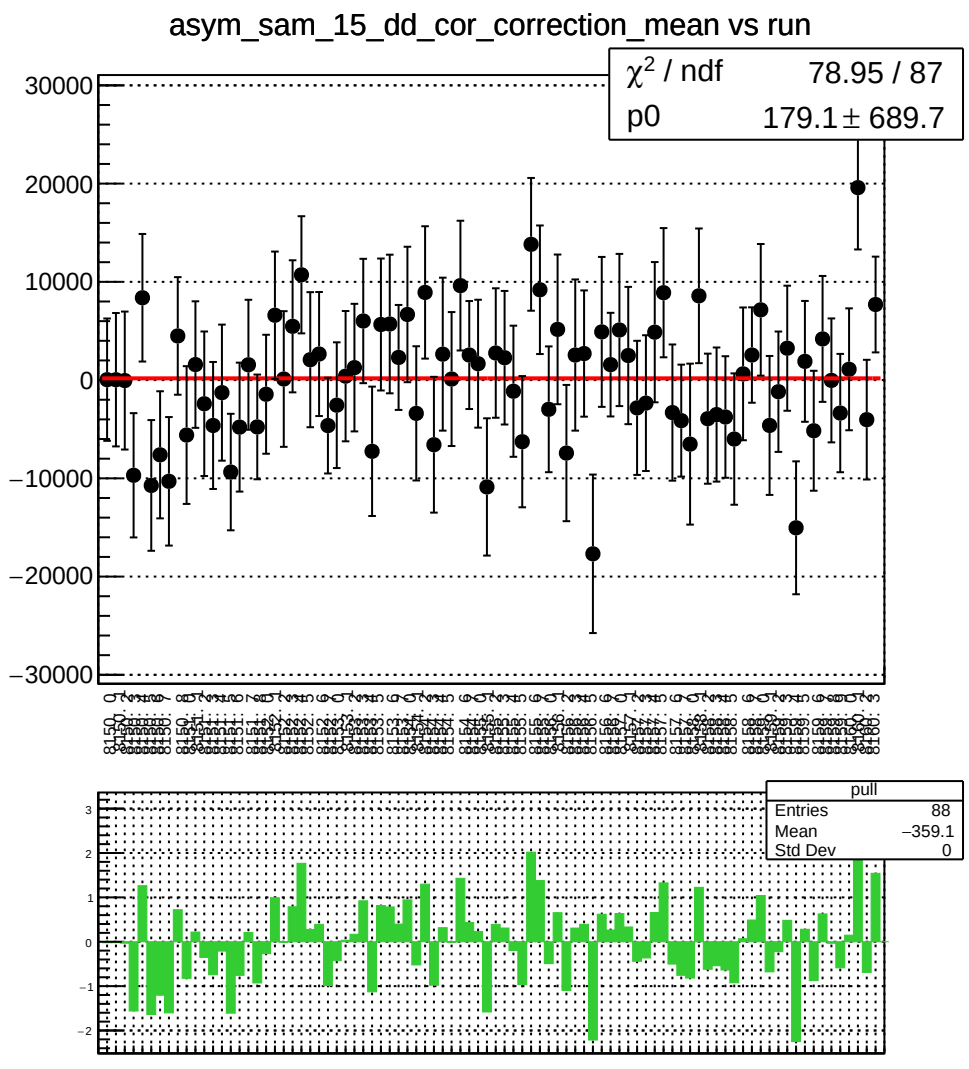

pull1D
Entries 88
Mean −0.007448
Std Dev 0.9472
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

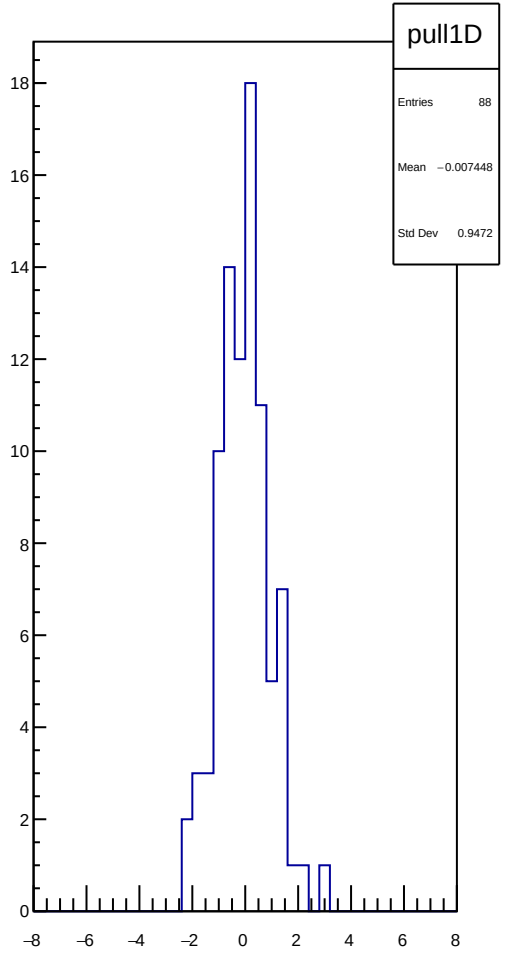

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 7030 / 87
p0 630.1 ± 0.4877
800
750
700
650
600
550

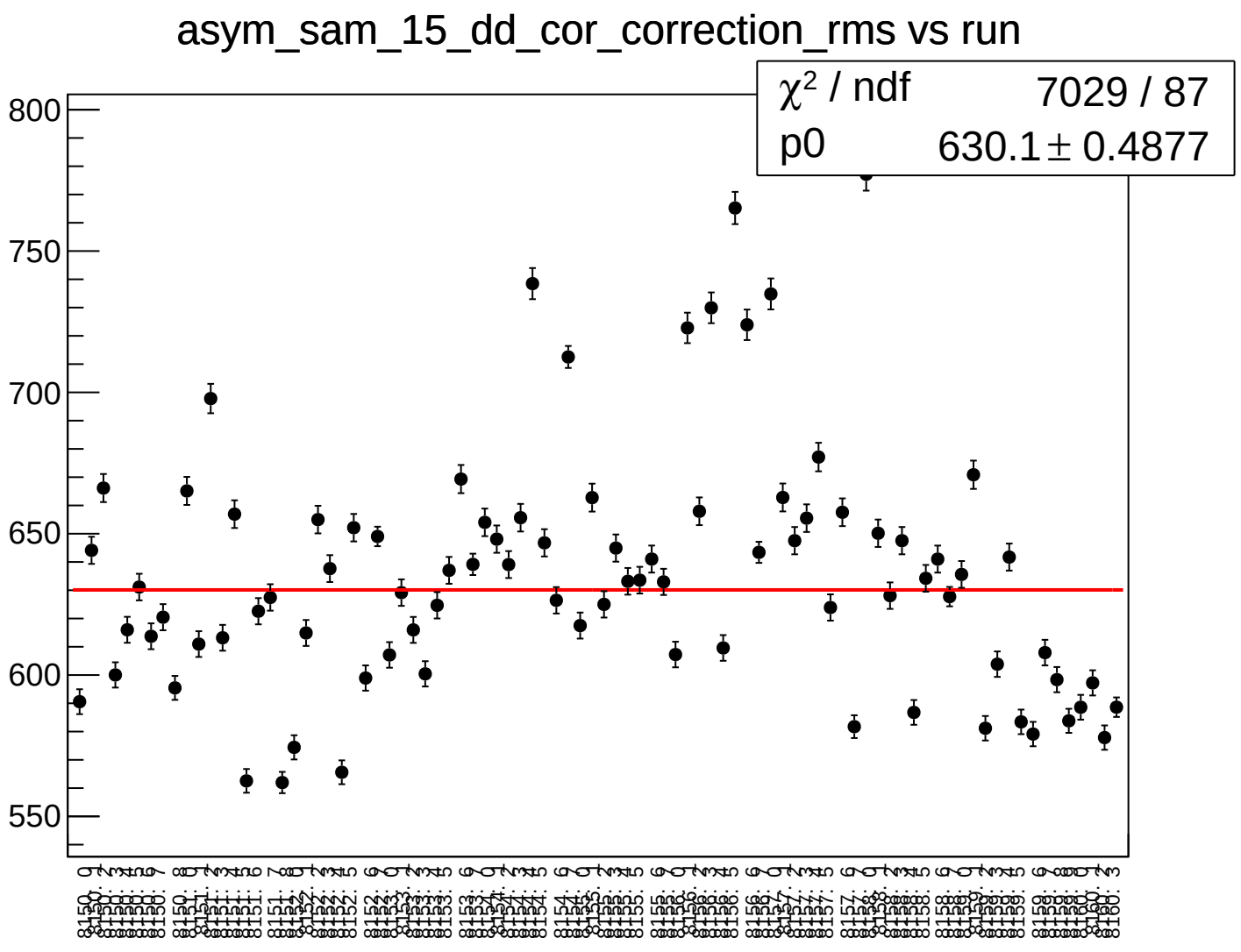

cor_asym_sam_15_dd_mean vs run
χ² / ndf 87.89 / 87
p0 −106.7 ± 91.65
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 1070
Std Dev 0
2
1
0
−1
−2

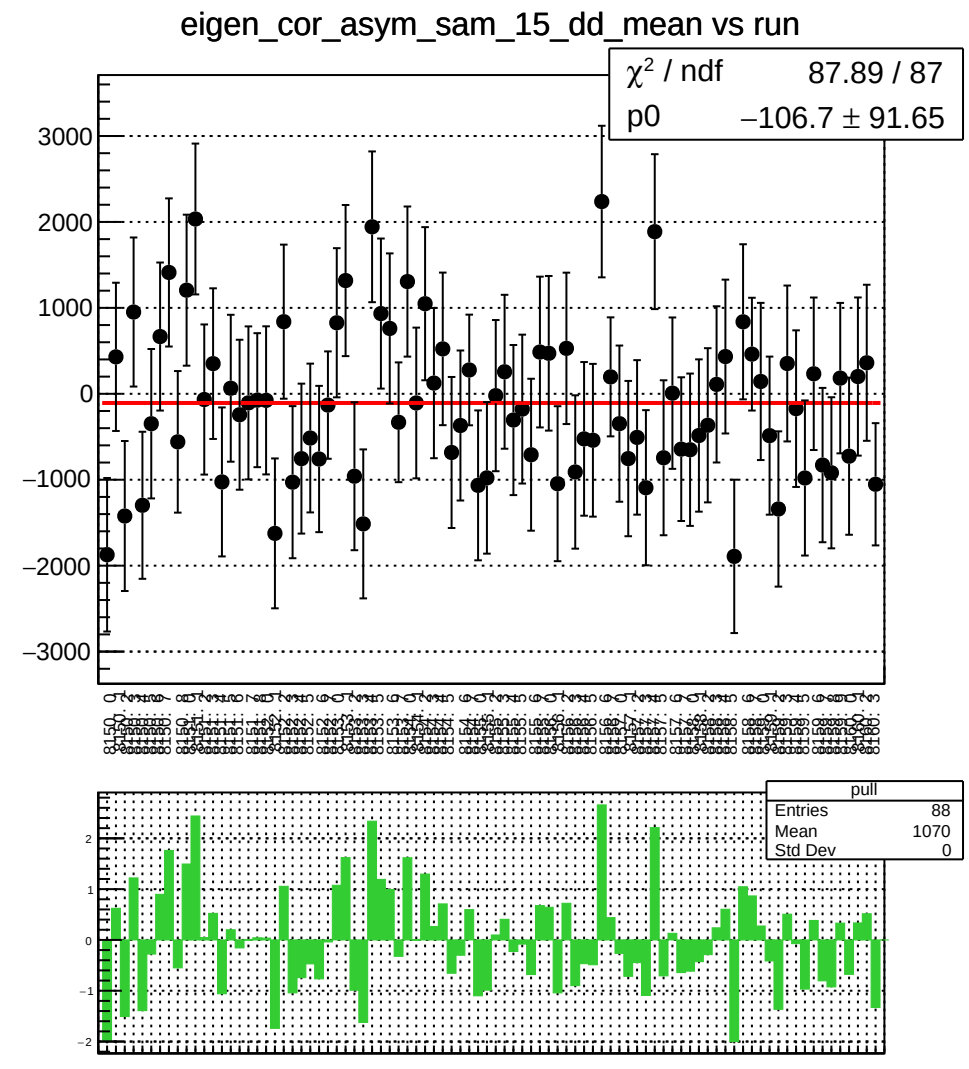

pull1D
Entries 88
Mean −0.002606
Std Dev 0.9993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

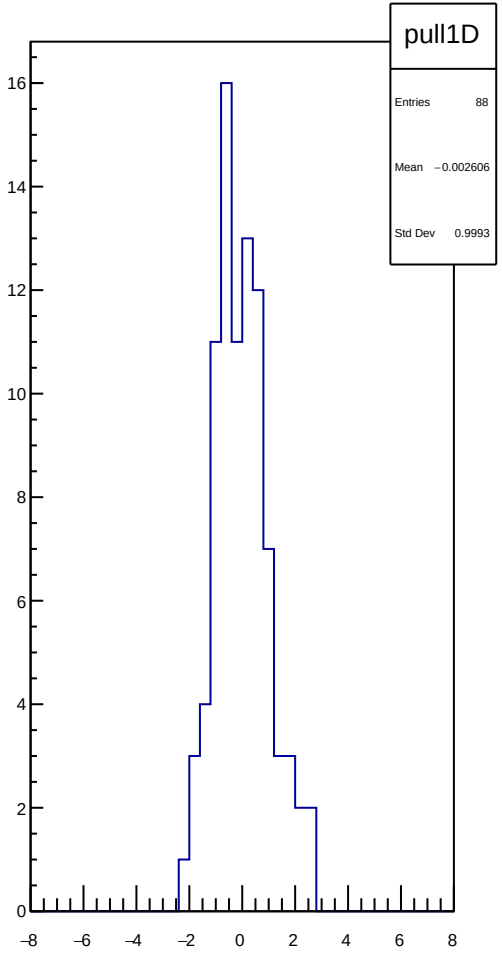

cor_asym_sam_15_dd_rms vs run
χ² / ndf 536.5 / 87
p0 83.9 ± 0.06481
88
87
86
85
84
83
82
81
80

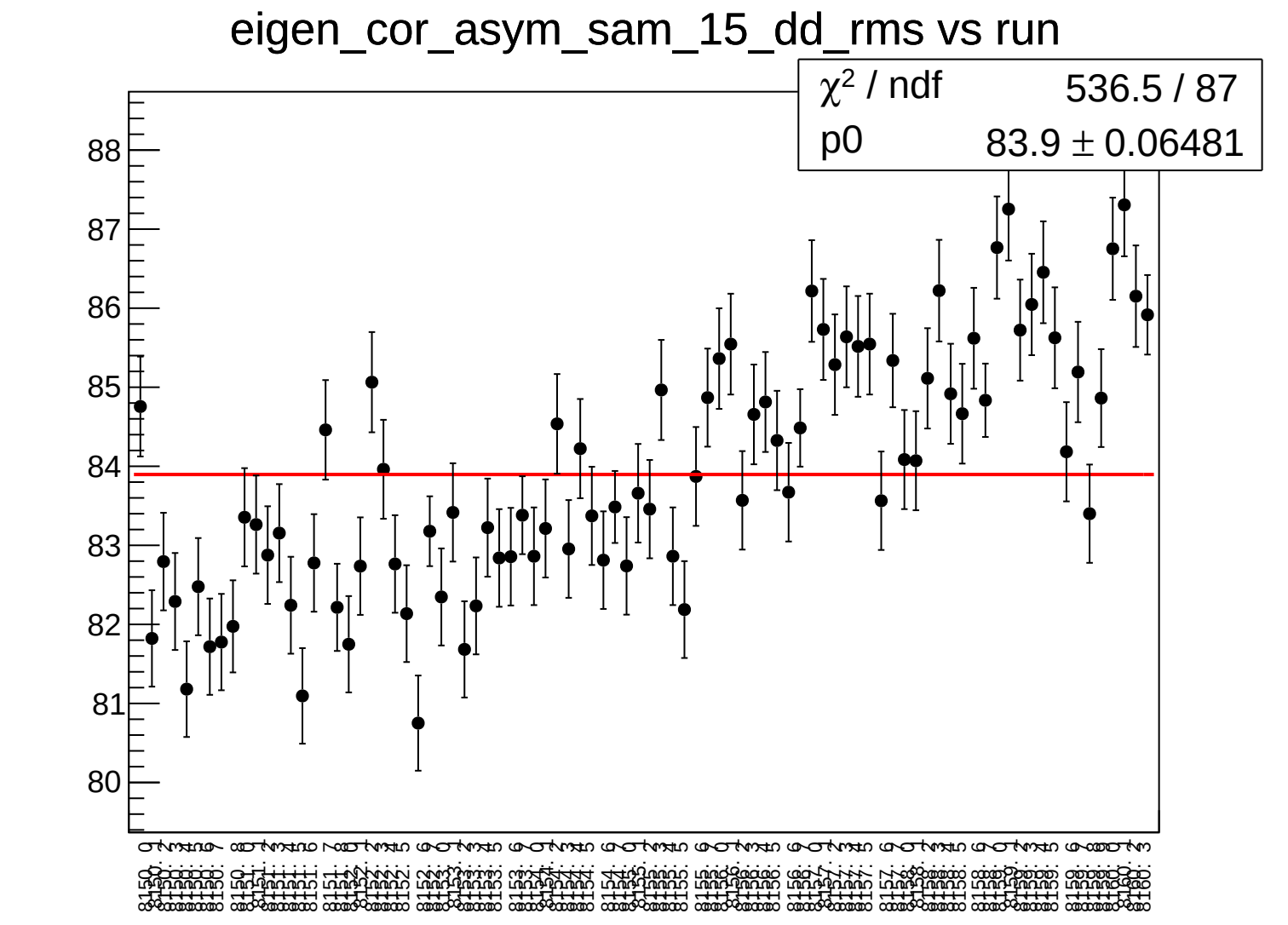

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 78.95 / 87
p0 179.1 ± 689.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −359.1
Std Dev 0
3
2
1
0
−1
−2

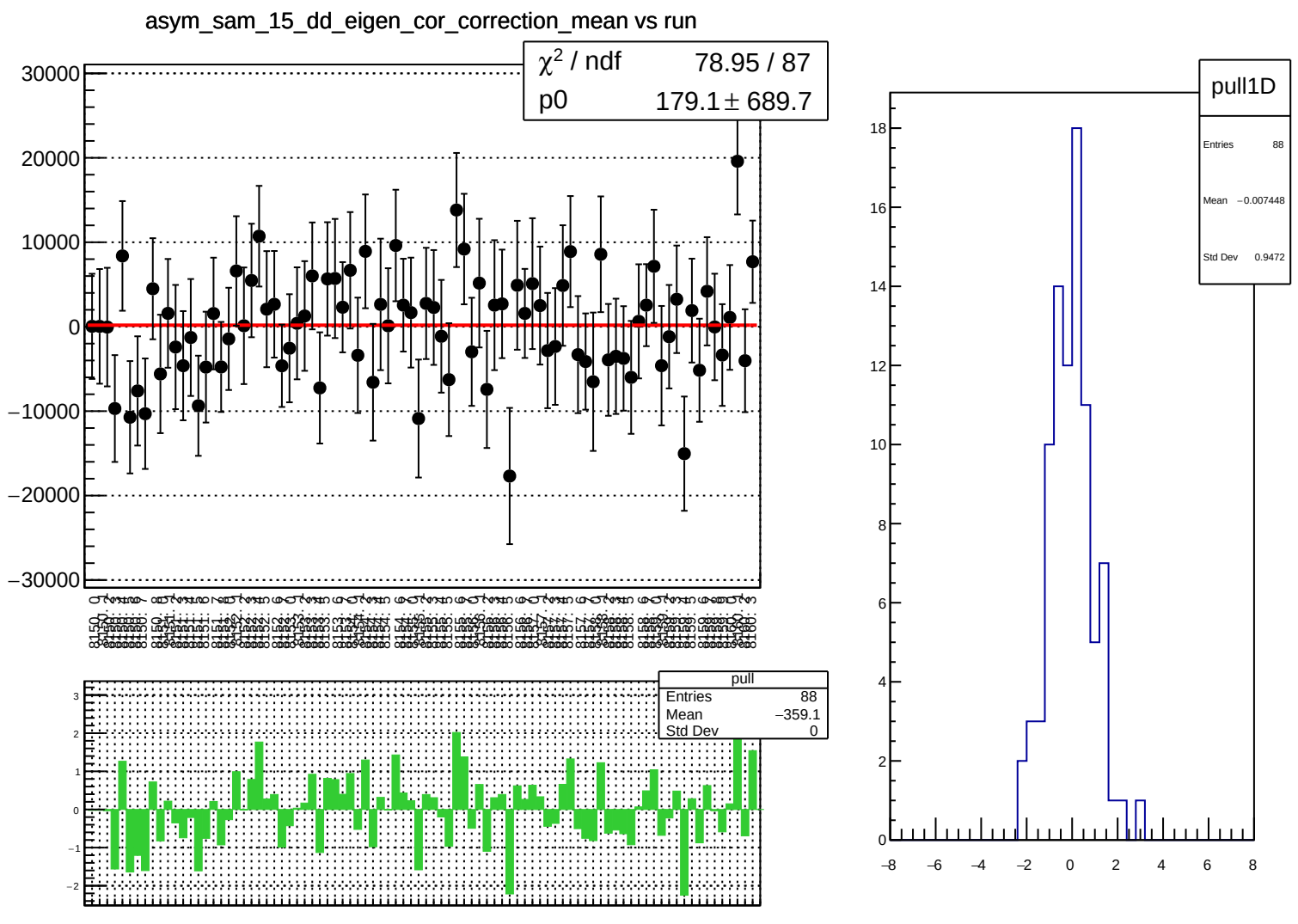

pull1D
Entries 88
Mean −0.007448
Std Dev 0.9472
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

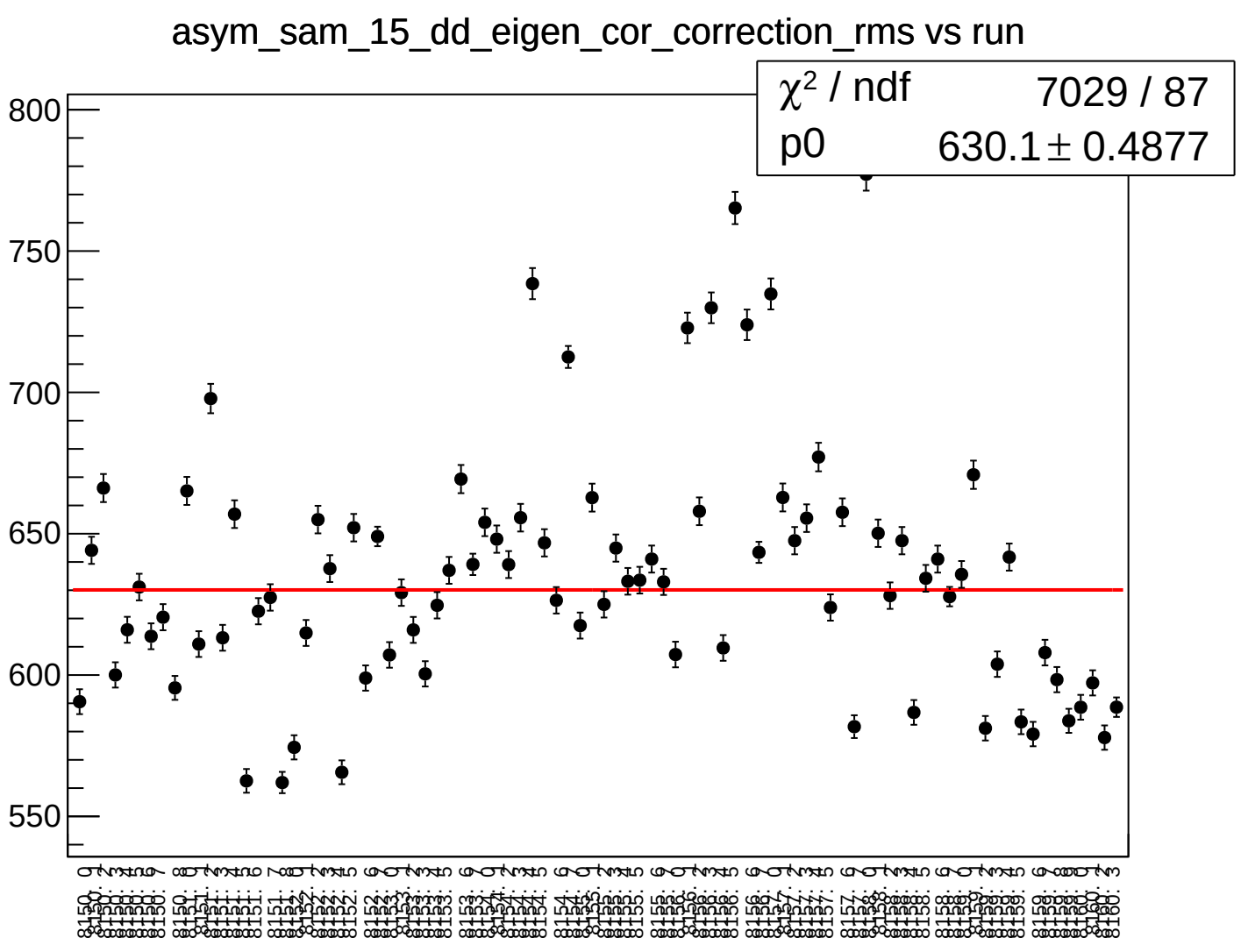

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 7029 / 87
p0 630.1 ± 0.4877
800
750
700
650
600
550

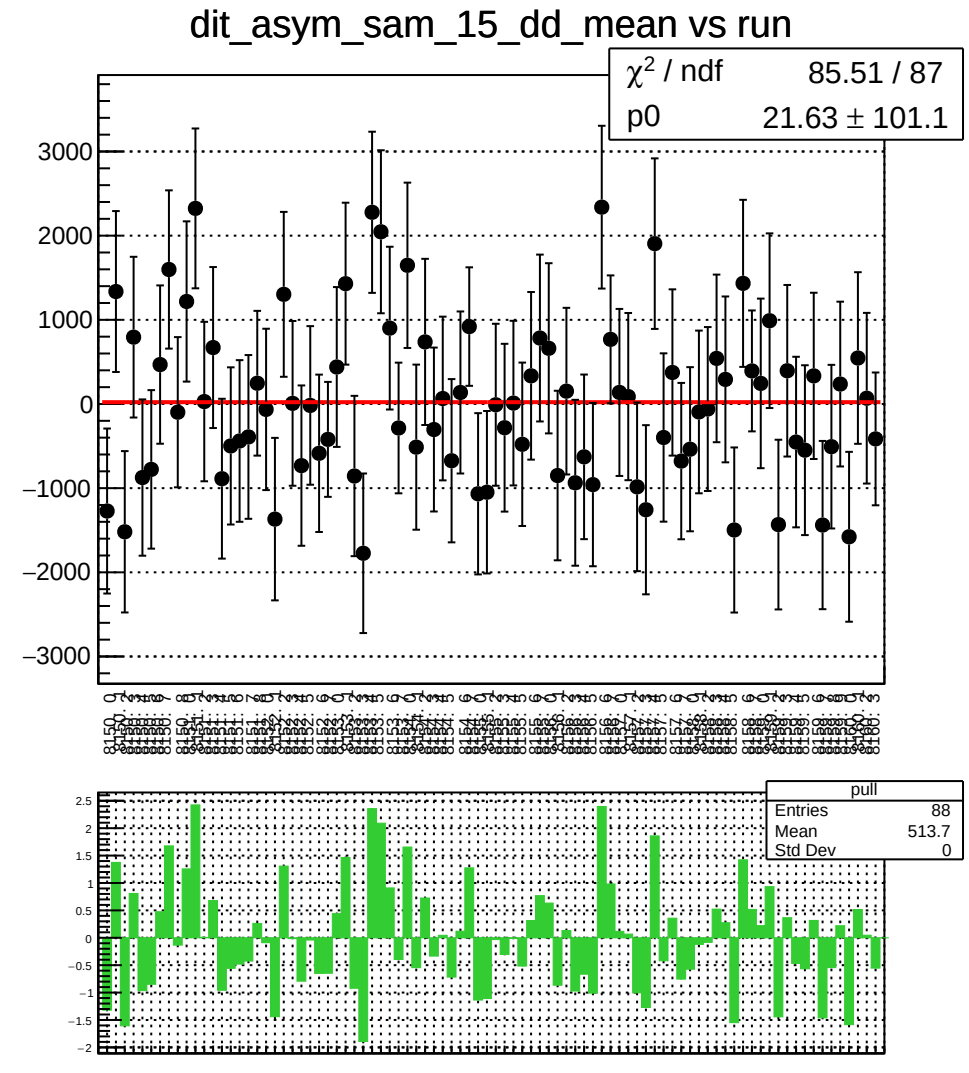

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 87.89 / 87
p0 −106.7 ± 91.65
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 1070
Std Dev 0
2
1
0
−1
−2

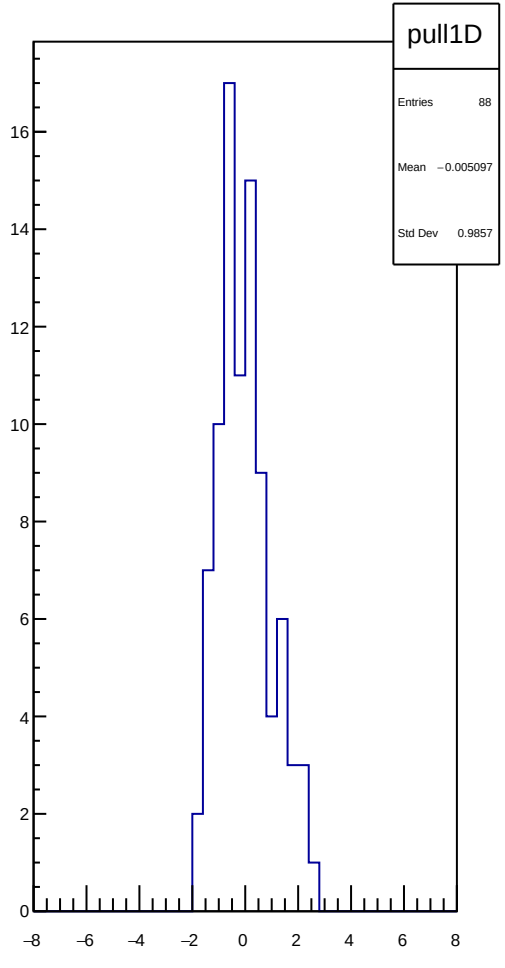

pull1D
Entries 88
Mean −0.002606
Std Dev 0.9993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

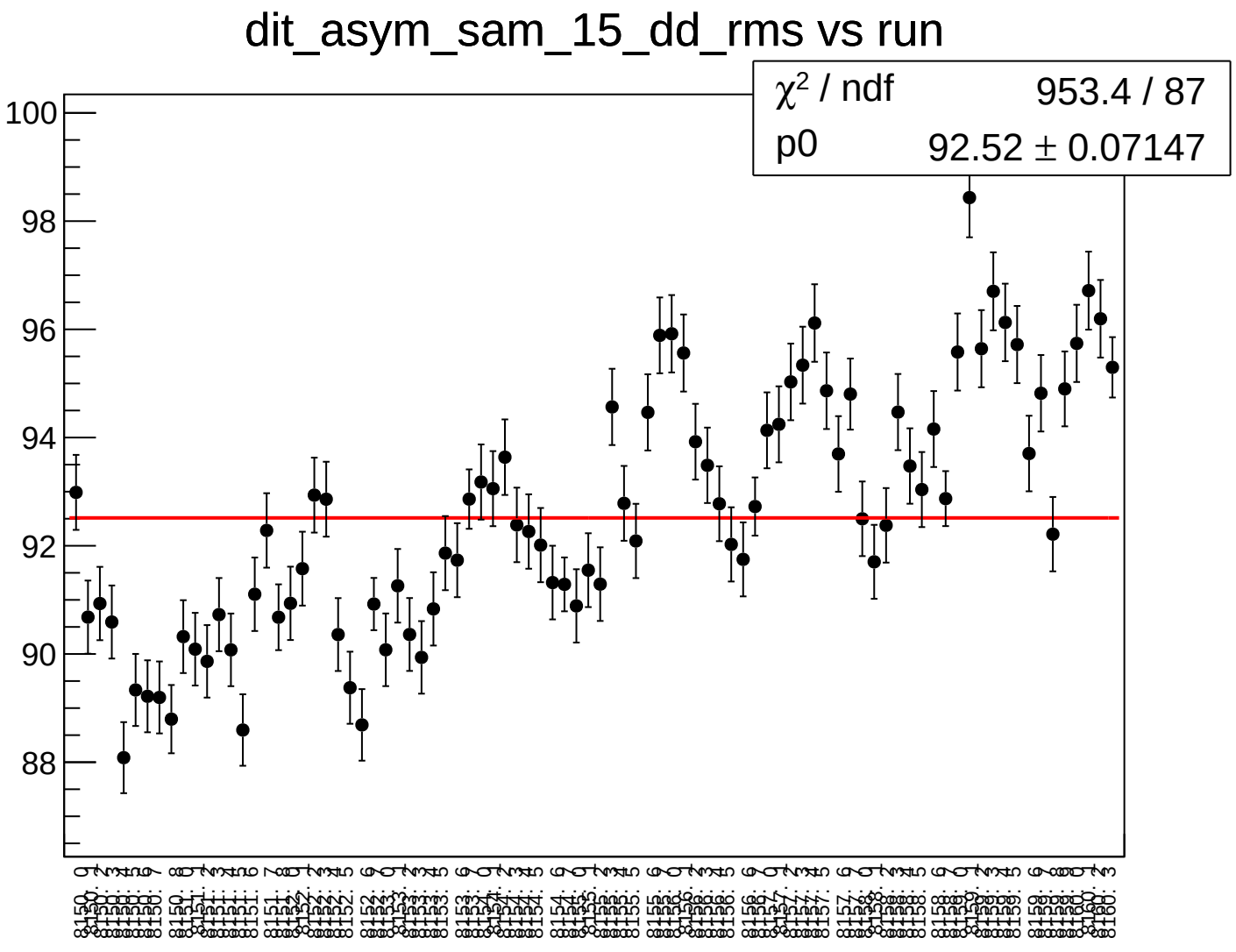

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 536.5 / 87
p0 83.9 ± 0.06481
88
87
86
85
84
83
82
81
80

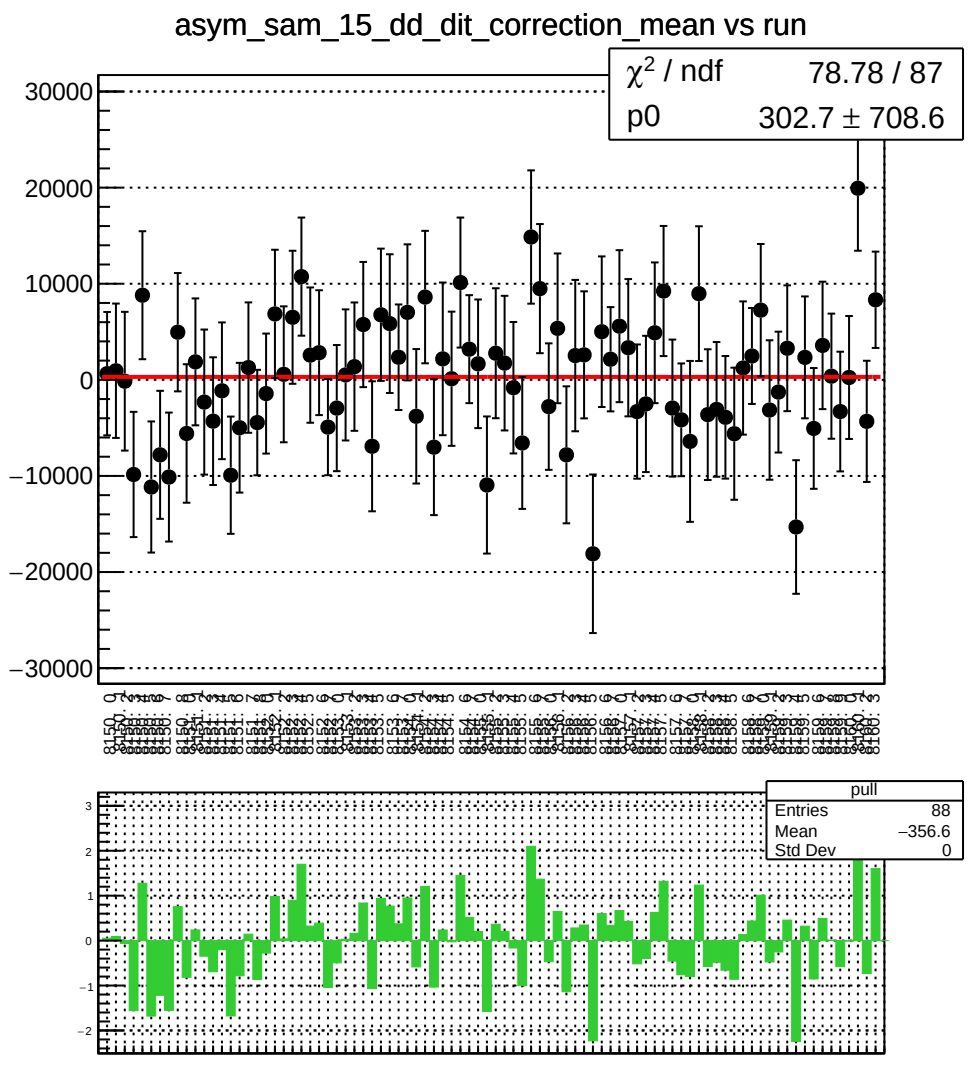

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.95 / 87
p0 179.1 ± 689.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −359.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007448
Std Dev 0.9472
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

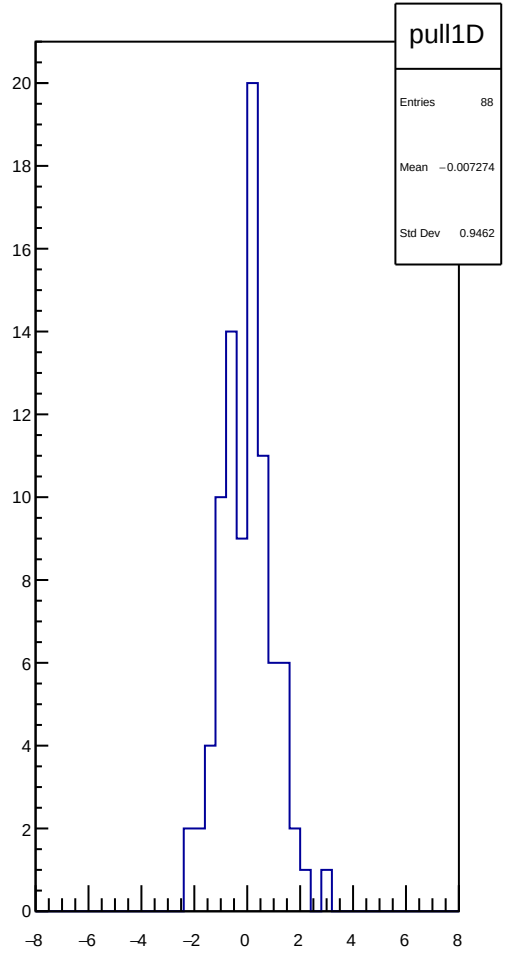

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 7029 / 87
p0 630.1 ± 0.4877
800
750
700
650
600
550

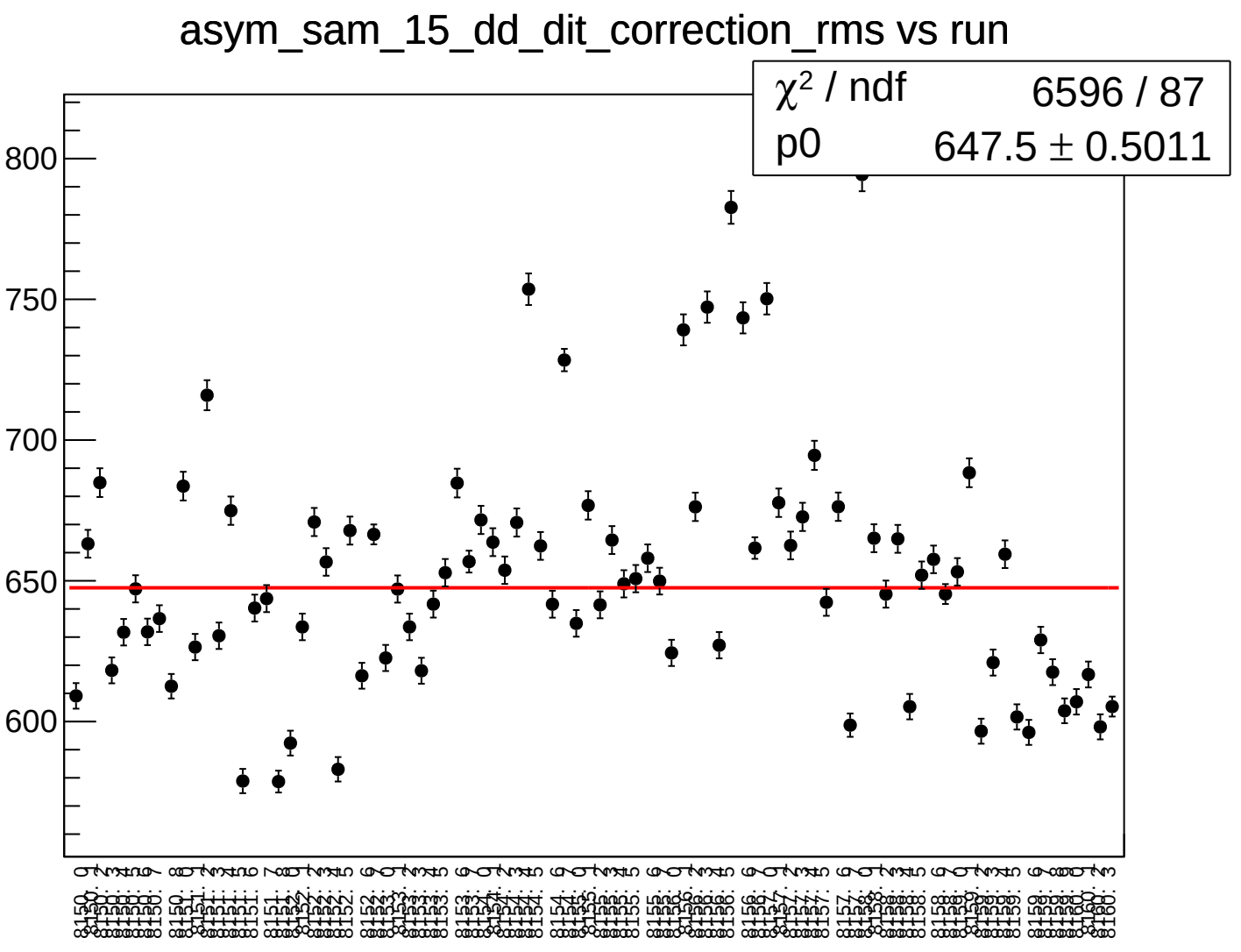

dit_asym_sam_15_dd_mean vs run
χ² / ndf 85.51 / 87
p0 21.63 ± 101.1
pull
Entries 88
Mean 513.7
Std Dev 0

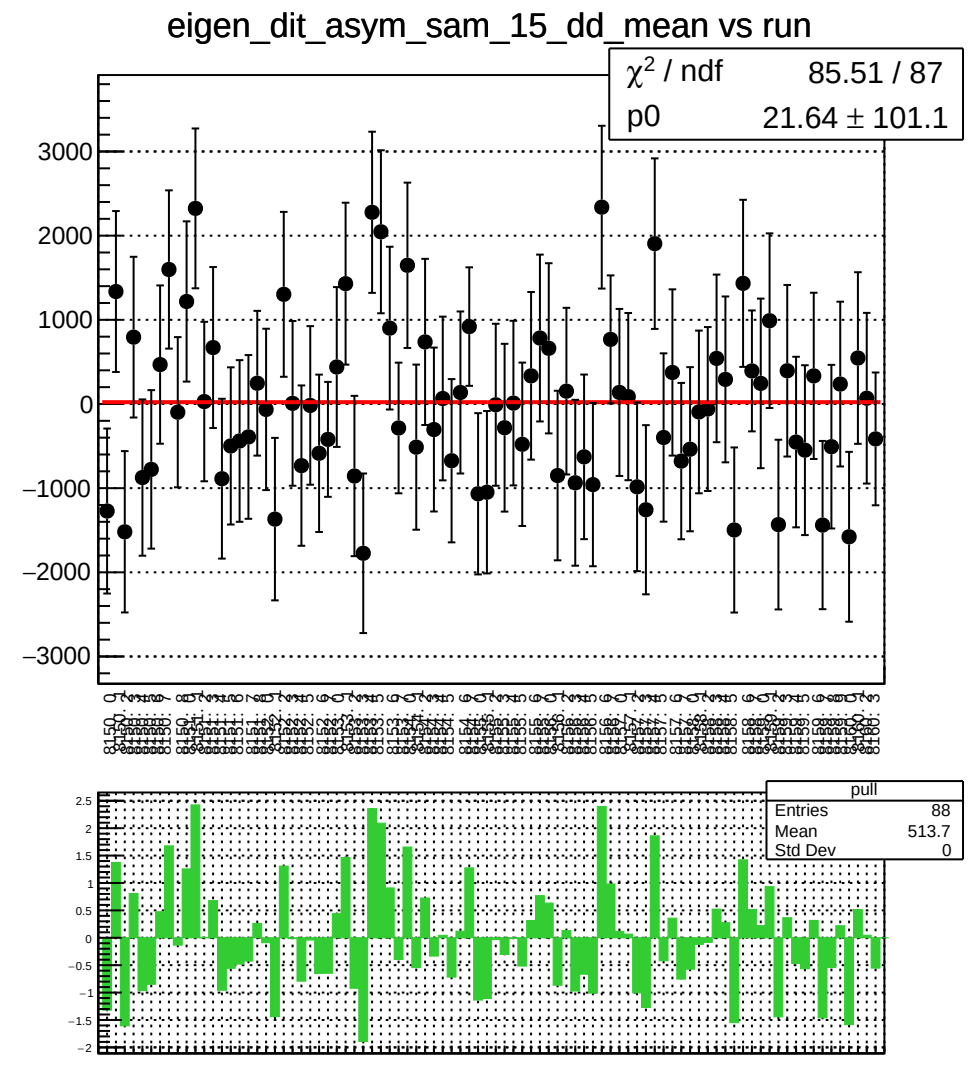

pull1D
Entries 88
Mean −0.005097
Std Dev 0.9857

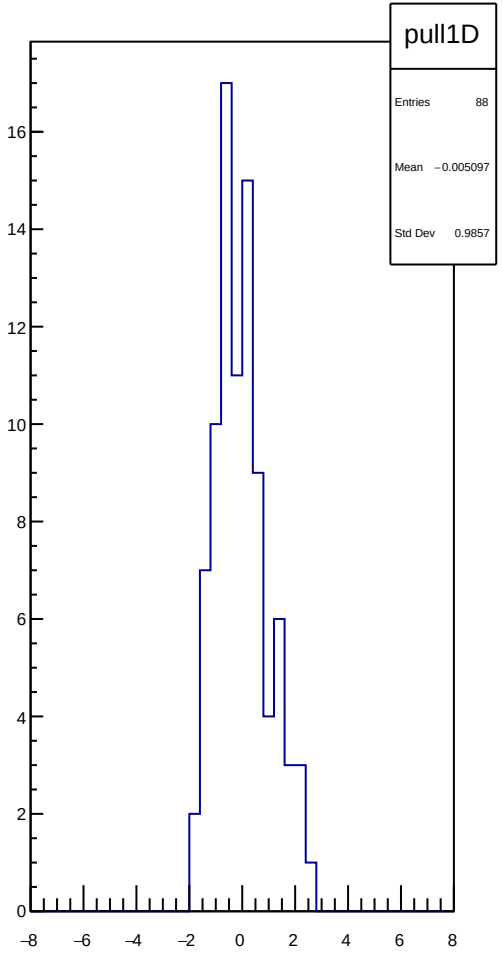

dit_asym_sam_15_dd_rms vs run
χ² / ndf 953.4 / 87
p0 92.52 ± 0.07147
100
98
96
94
92
90
88

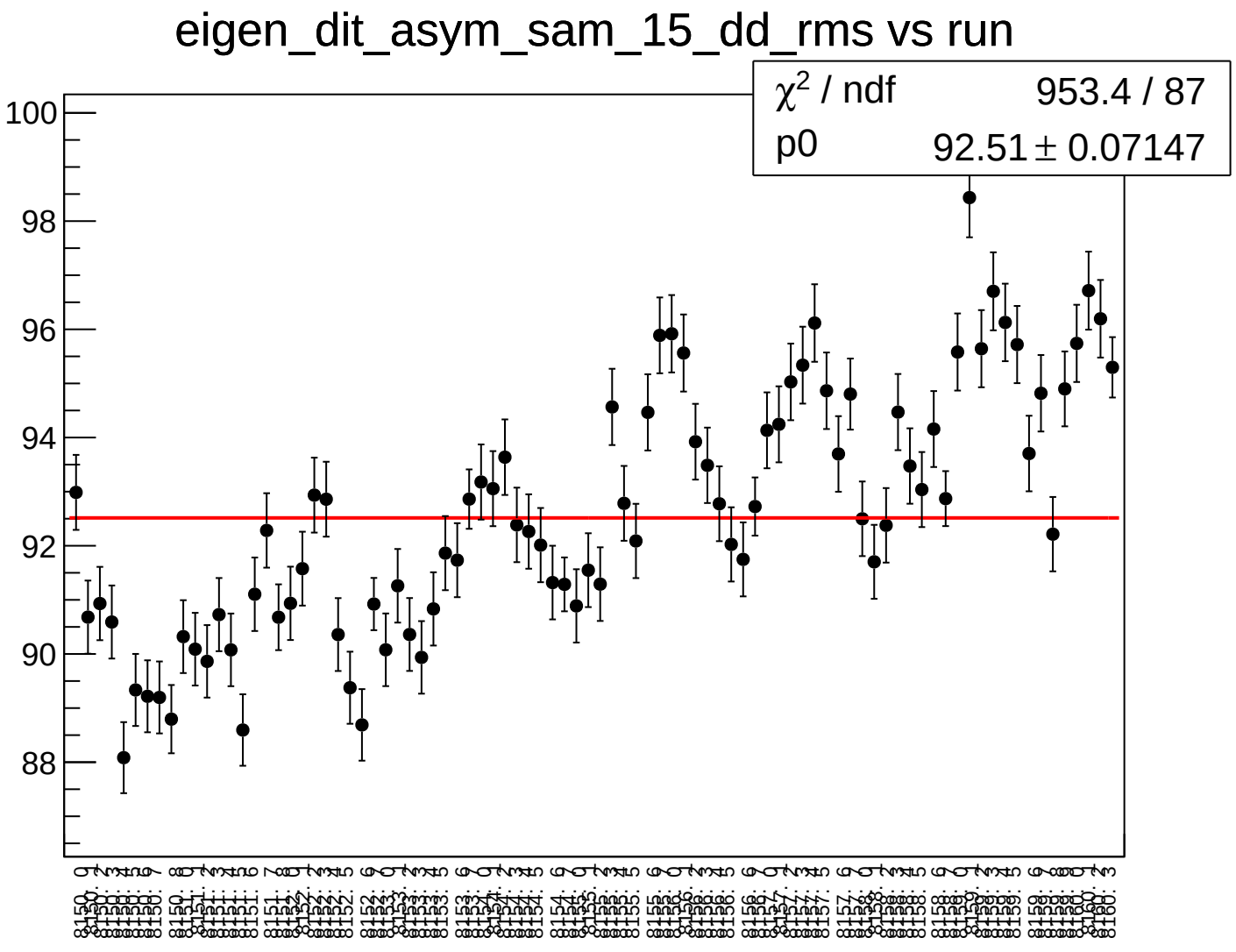

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 78.78 / 87
p0 302.7 ± 708.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −356.6
Std Dev 0
3
2
1
0
−1
−2

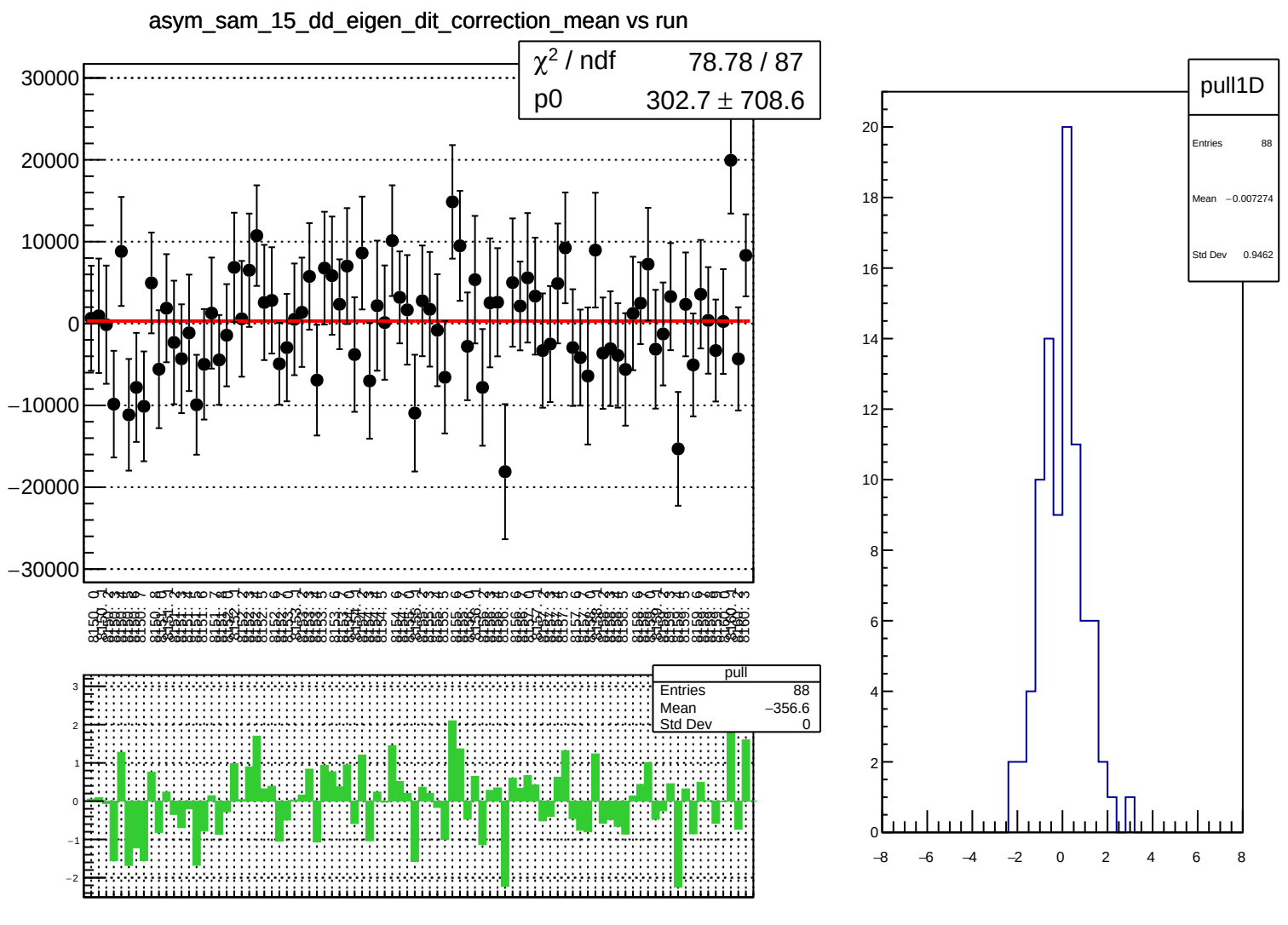

pull1D
Entries 88
Mean −0.007274
Std Dev 0.9462
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

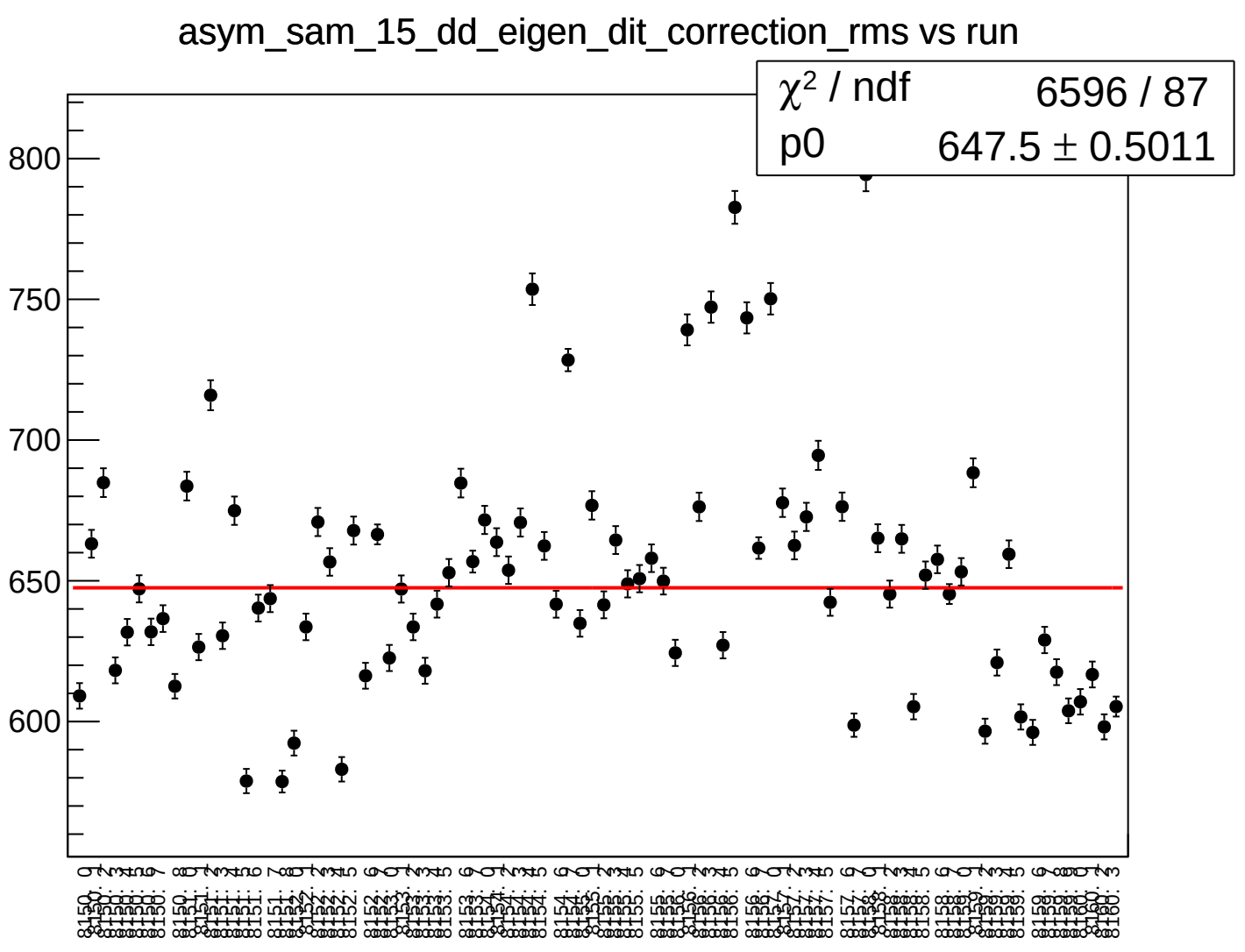

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 6596 / 87
p0 647.5 ± 0.5011
800
750
700
650
600

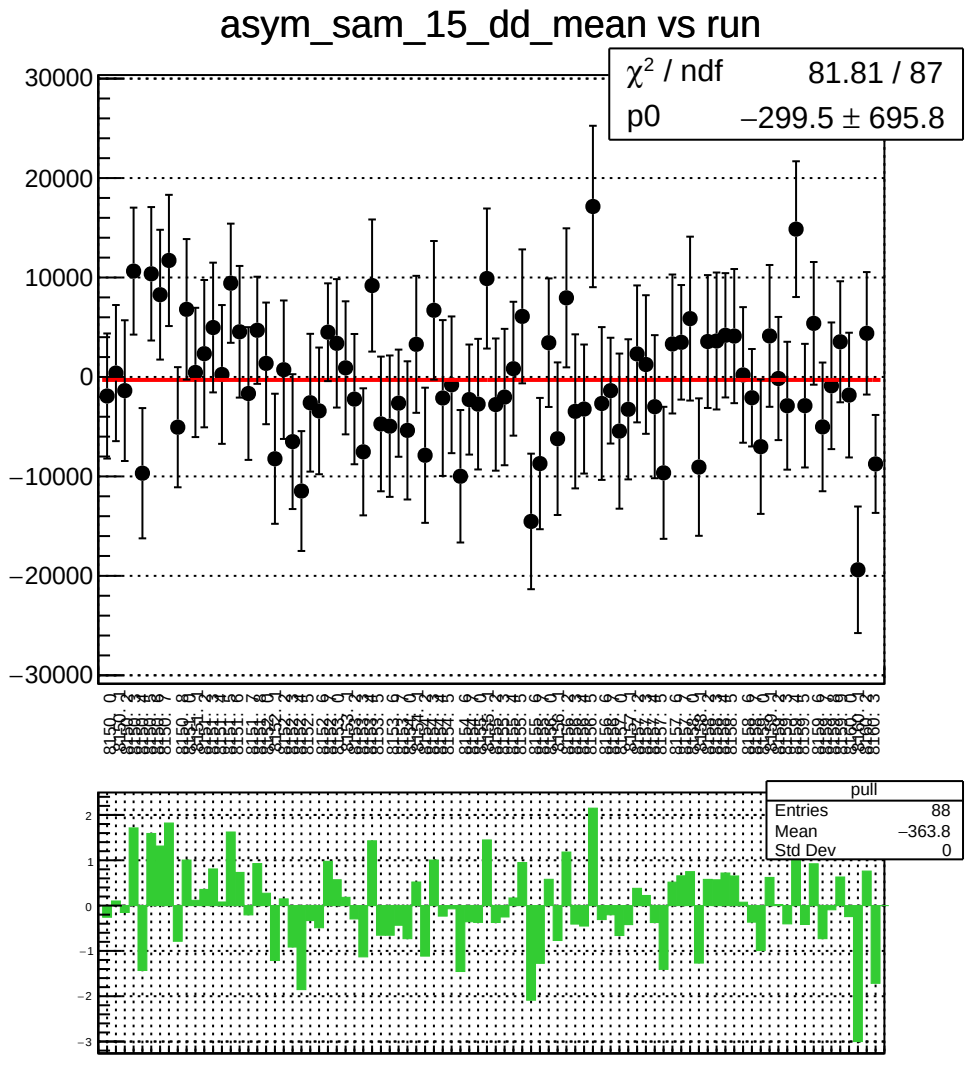

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 85.51 / 87
p0 21.64 ± 101.1
pull
Entries 88
Mean 513.7
Std Dev 0

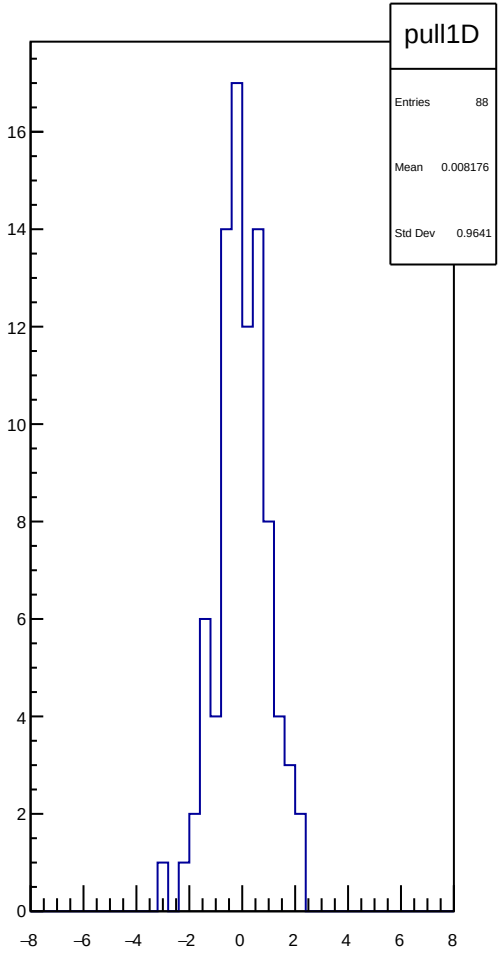

pull1D
Entries 88
Mean −0.005097
Std Dev 0.9857

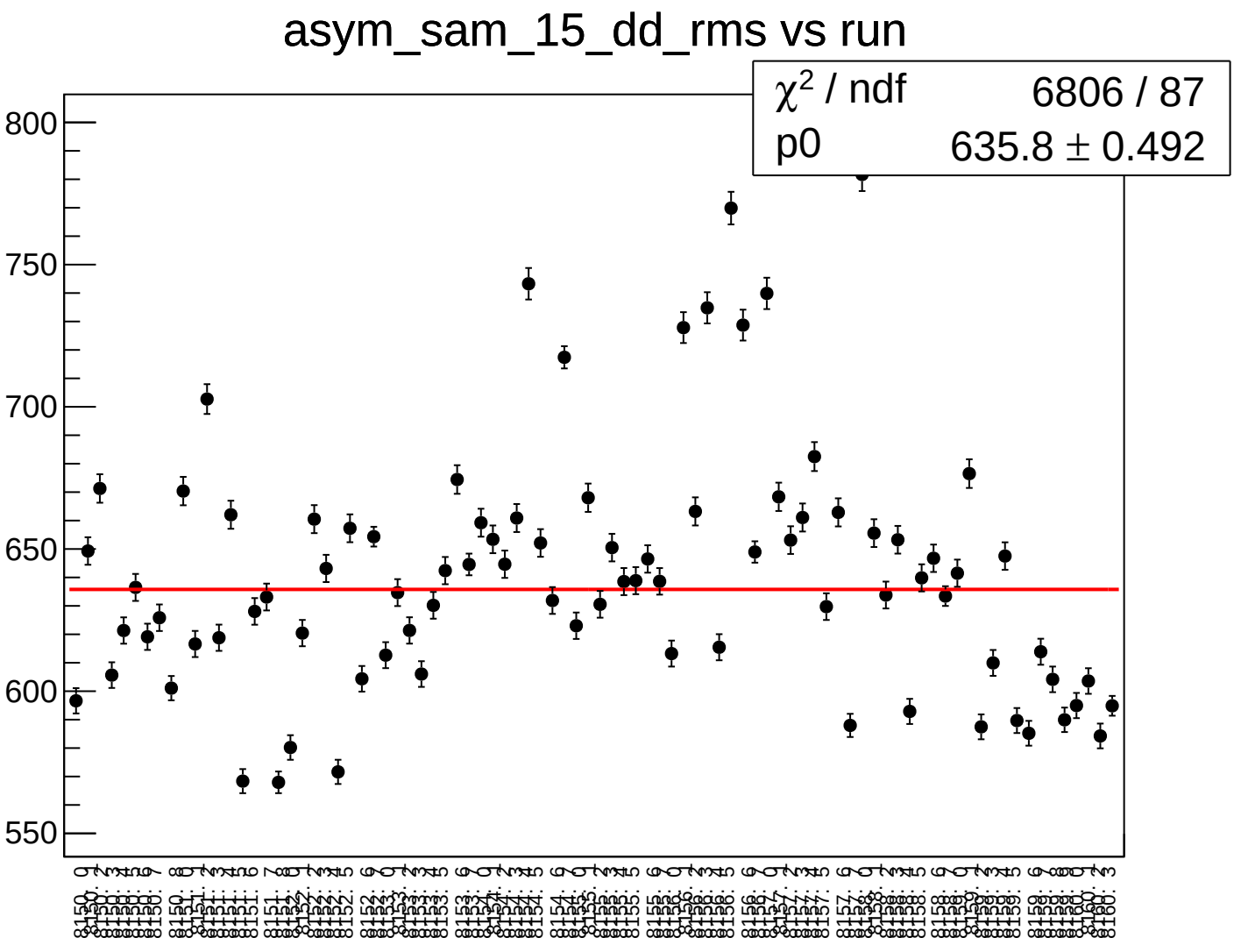

eigen_dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 953.4 / 87
p0 92.51 ± 0.07147
100
98
96
94
92
90
88

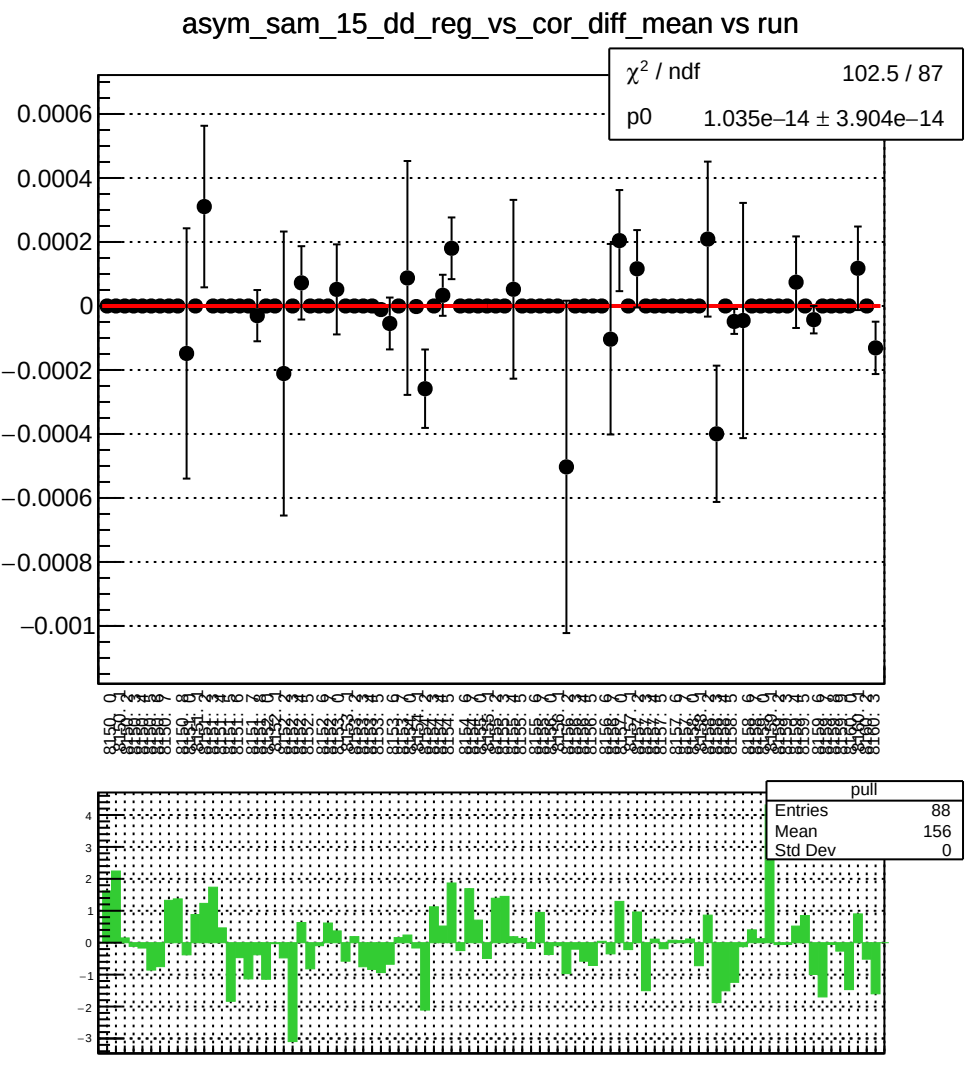

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.78 / 87
p0 302.7 ± 708.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −356.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007274
Std Dev 0.9462
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

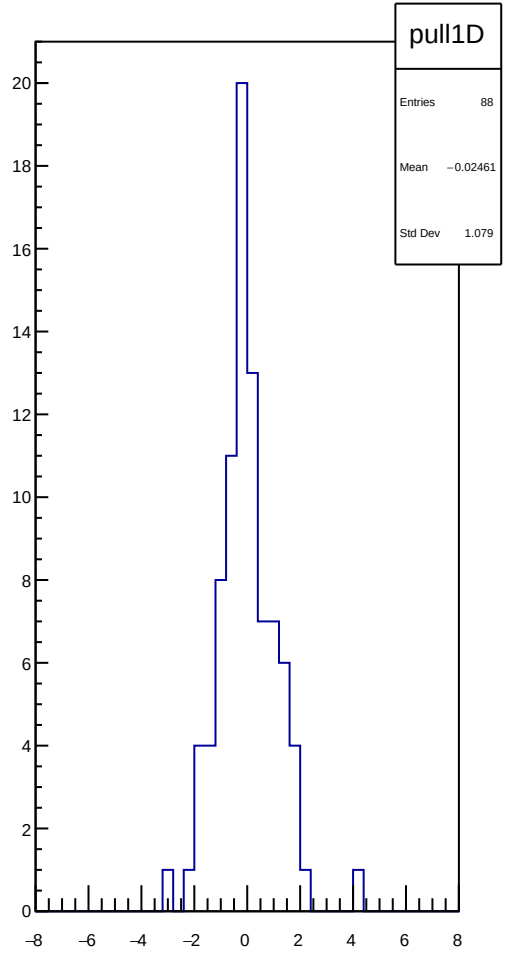

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 6596 / 87
p0 647.5 ± 0.5011
800
750
700
650
600

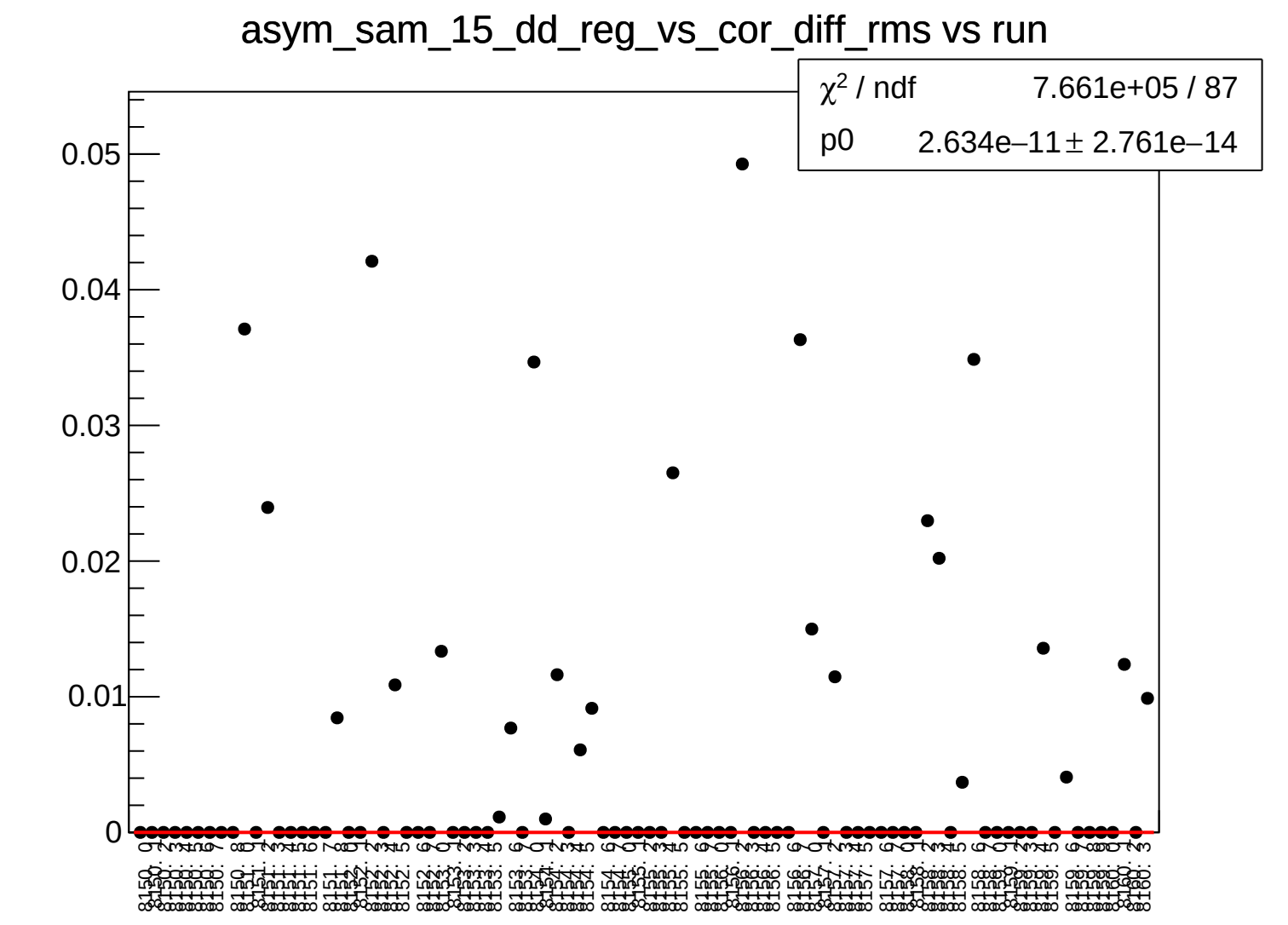

asym_sam_15_dd_mean vs run
χ² / ndf 81.81 / 87
p0 −299.5 ± 695.8
pull
Entries 88
Mean −363.8
Std Dev 0

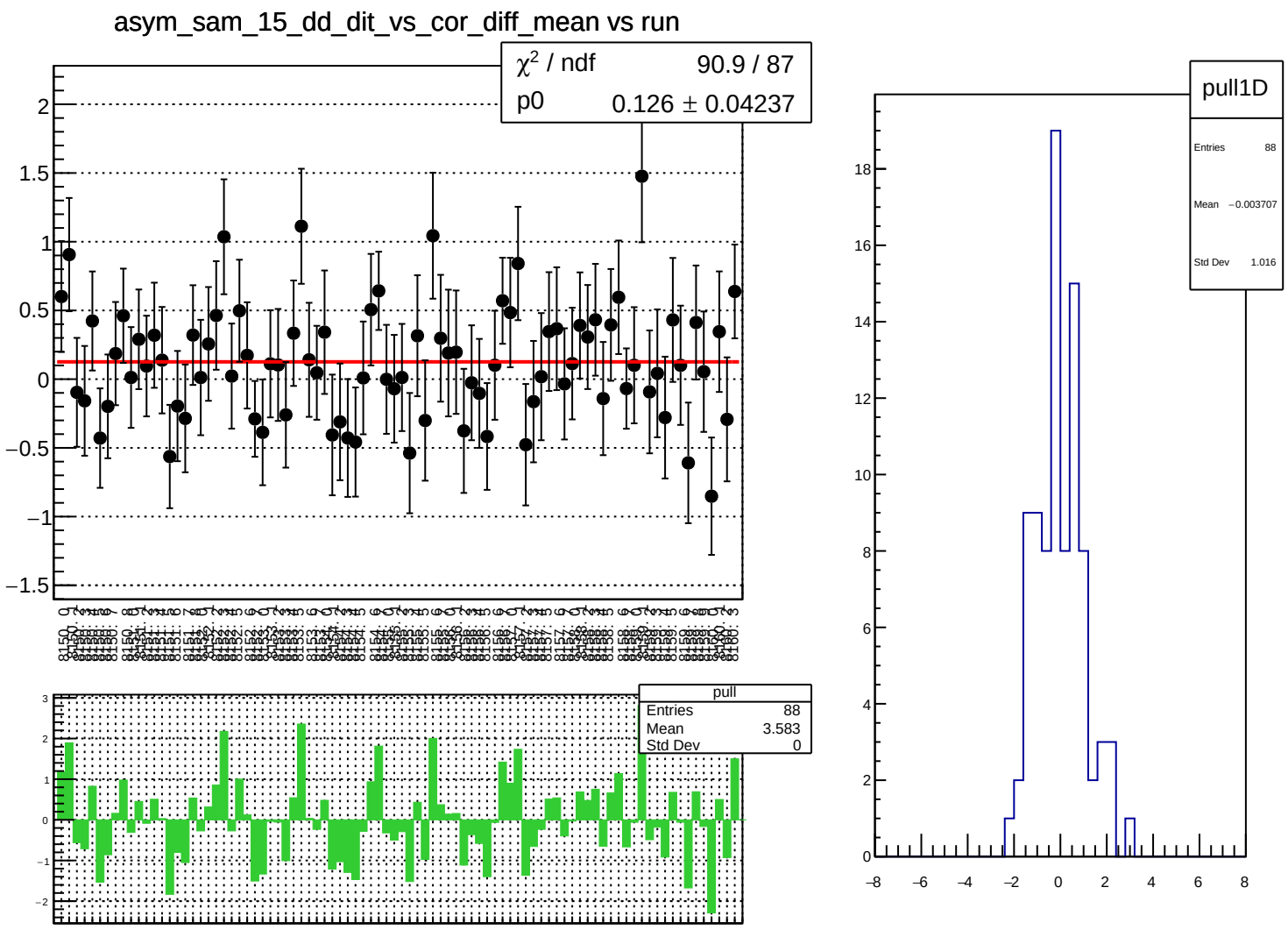

pull1D
Entries 88
Mean 0.008176
Std Dev 0.9641

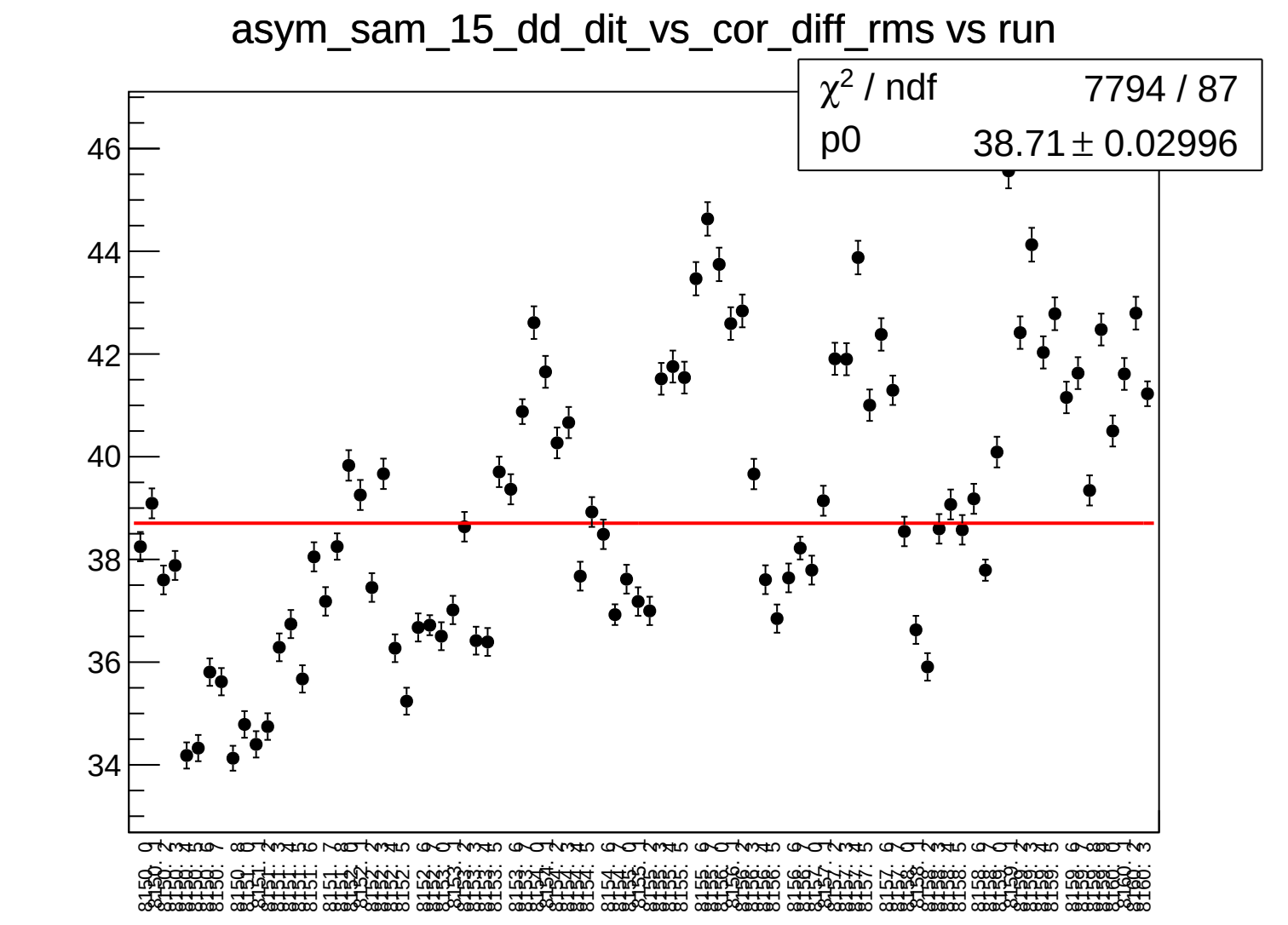

asym_sam_15_dd_rms vs run
χ^2 / ndf 6806 / 87
p0 635.8 ± 0.492
800
750
700
650
600
550

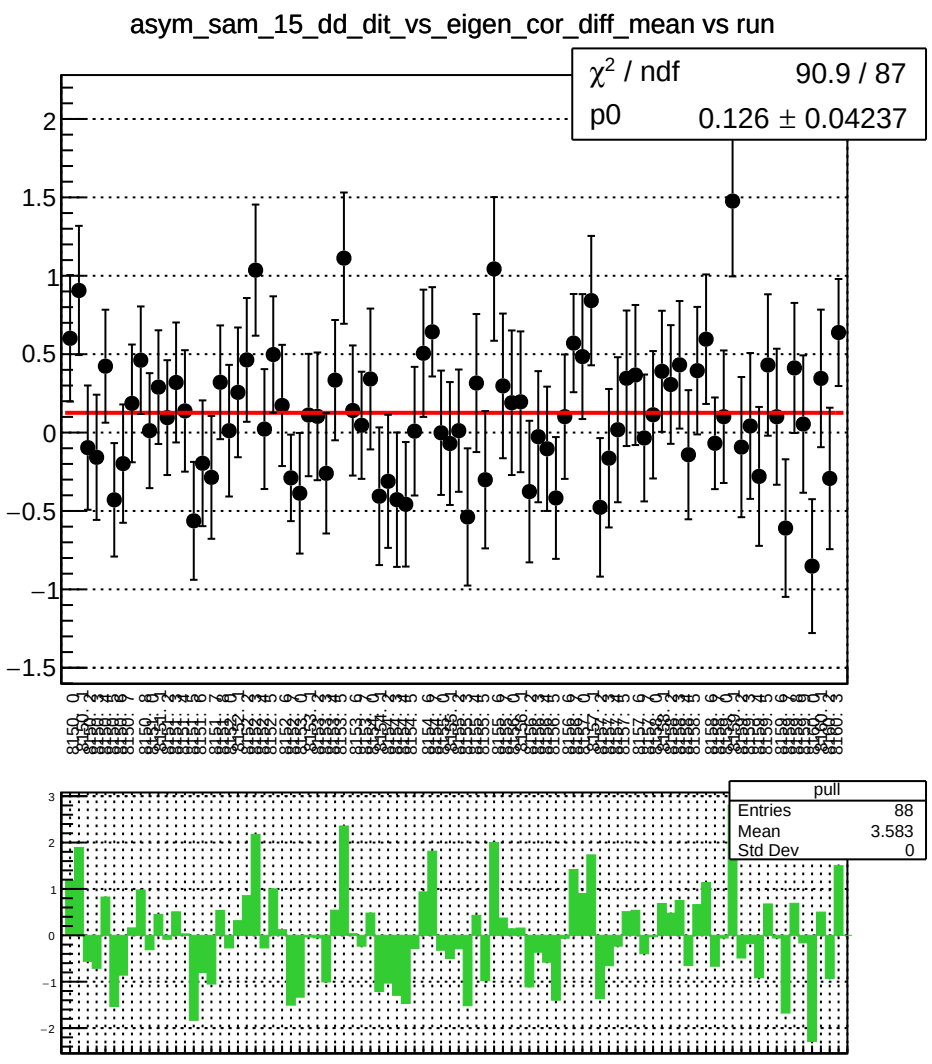

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.5 / 87
p0 1.035e−14 ± 3.904e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 88
Mean 156
Std Dev 0
4
3
2
1
0
−1
−2
−3

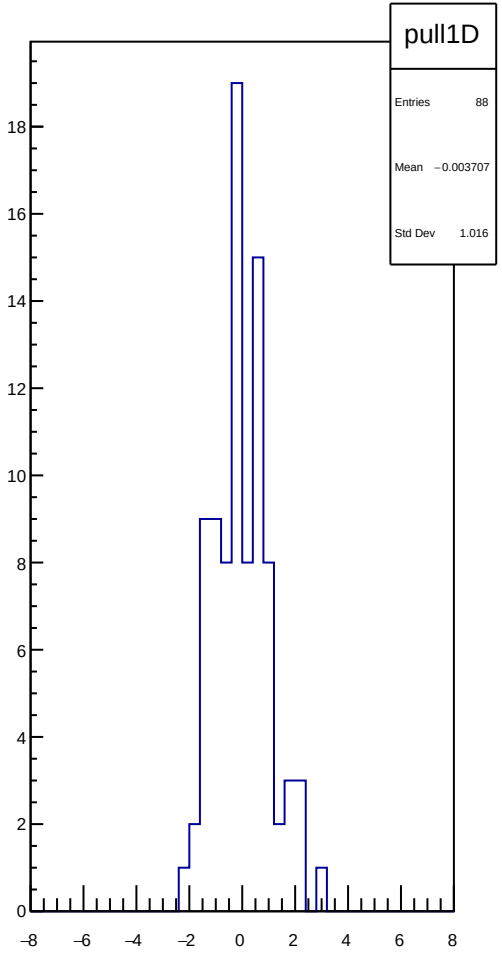

pull1D
Entries 88
Mean −0.02461
Std Dev 1.079
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

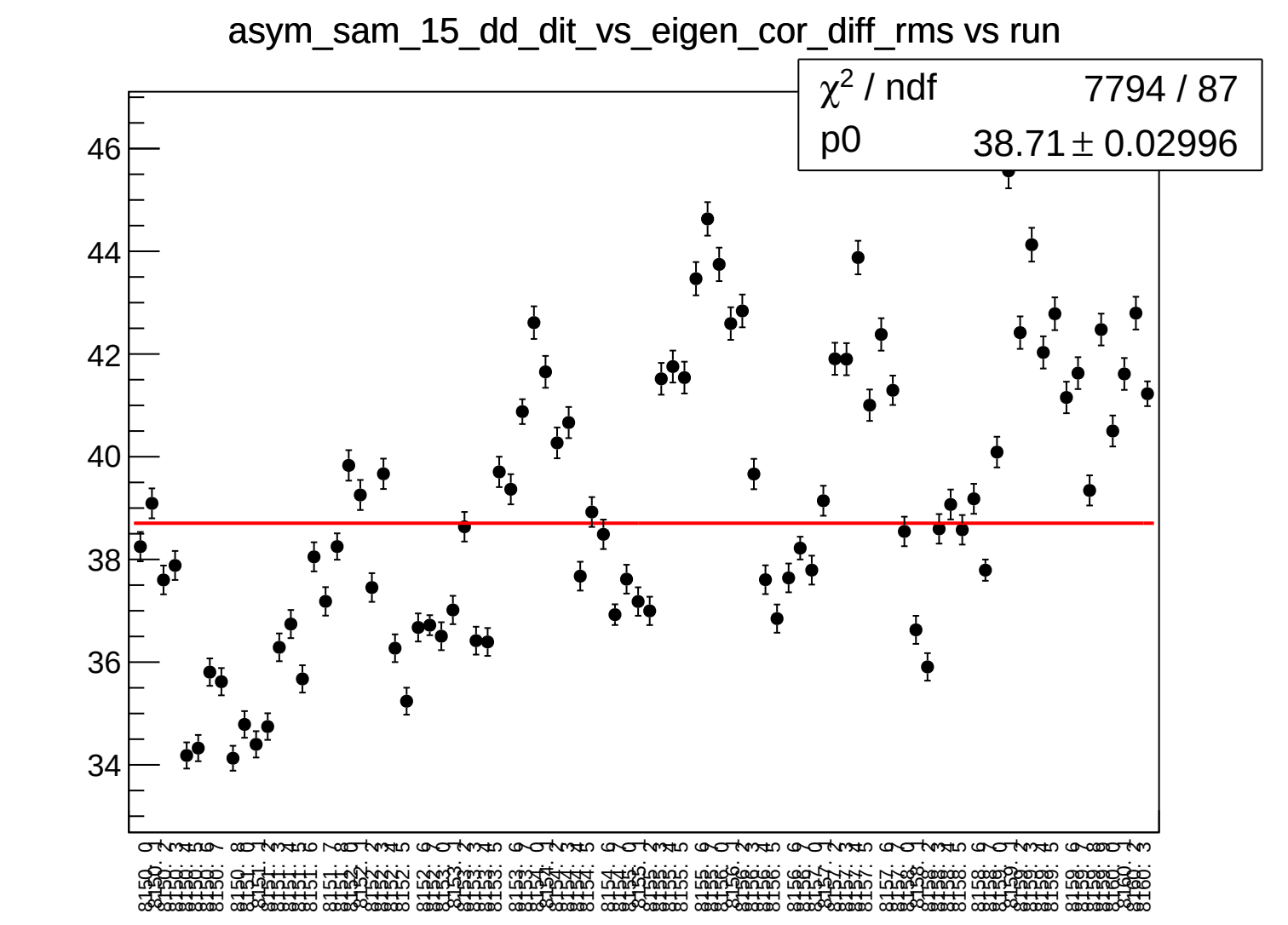

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.661e+05 / 87
p0 2.634e−11 ± 2.761e−14
0.05
0.04
0.03
0.02
0.01
0

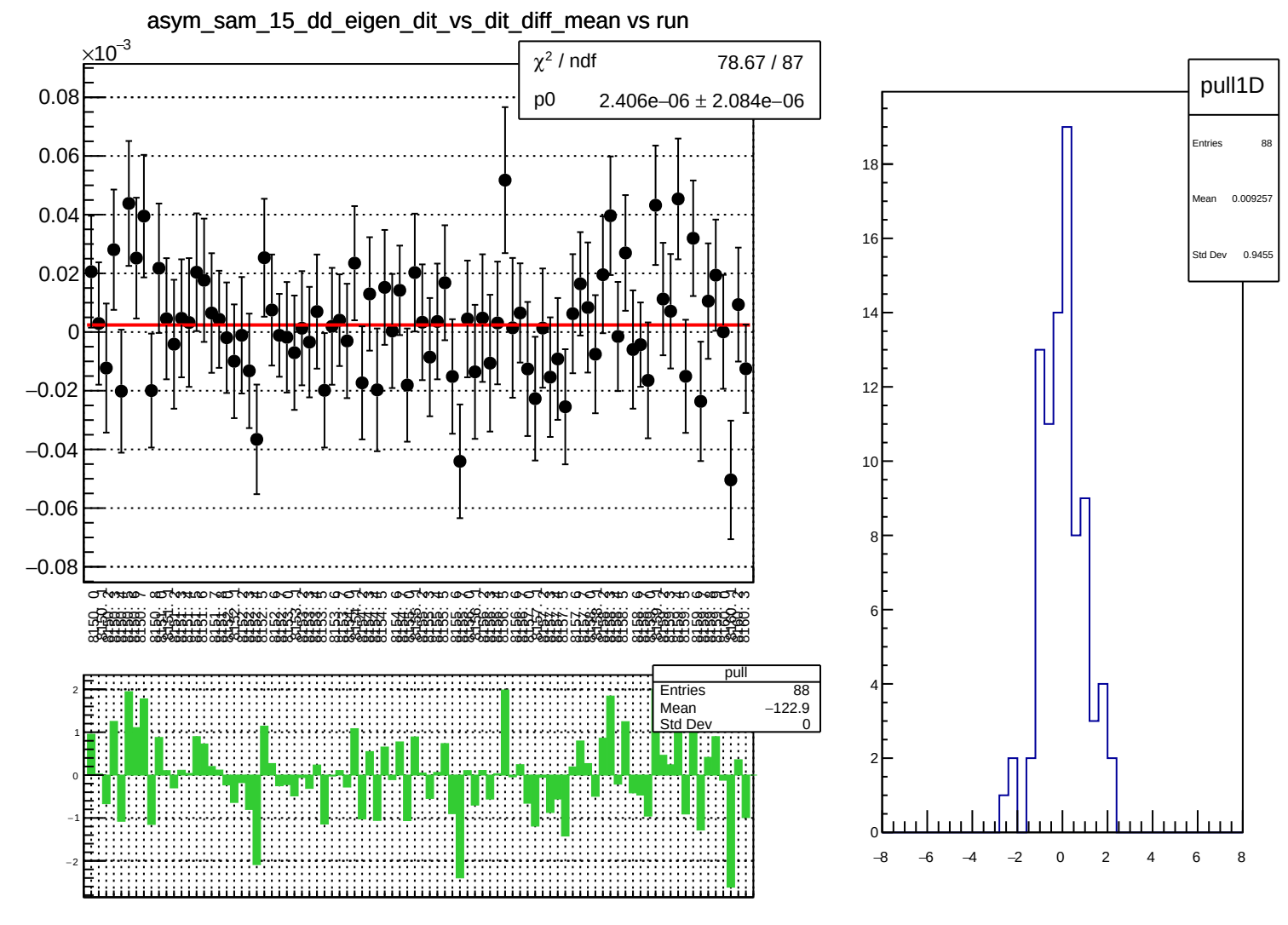

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.9 / 87
p0 0.126 ± 0.04237
pull
Entries 88
Mean 3.583
Std Dev 0
pull1D
Entries 88
Mean −0.003707
Std Dev 1.016

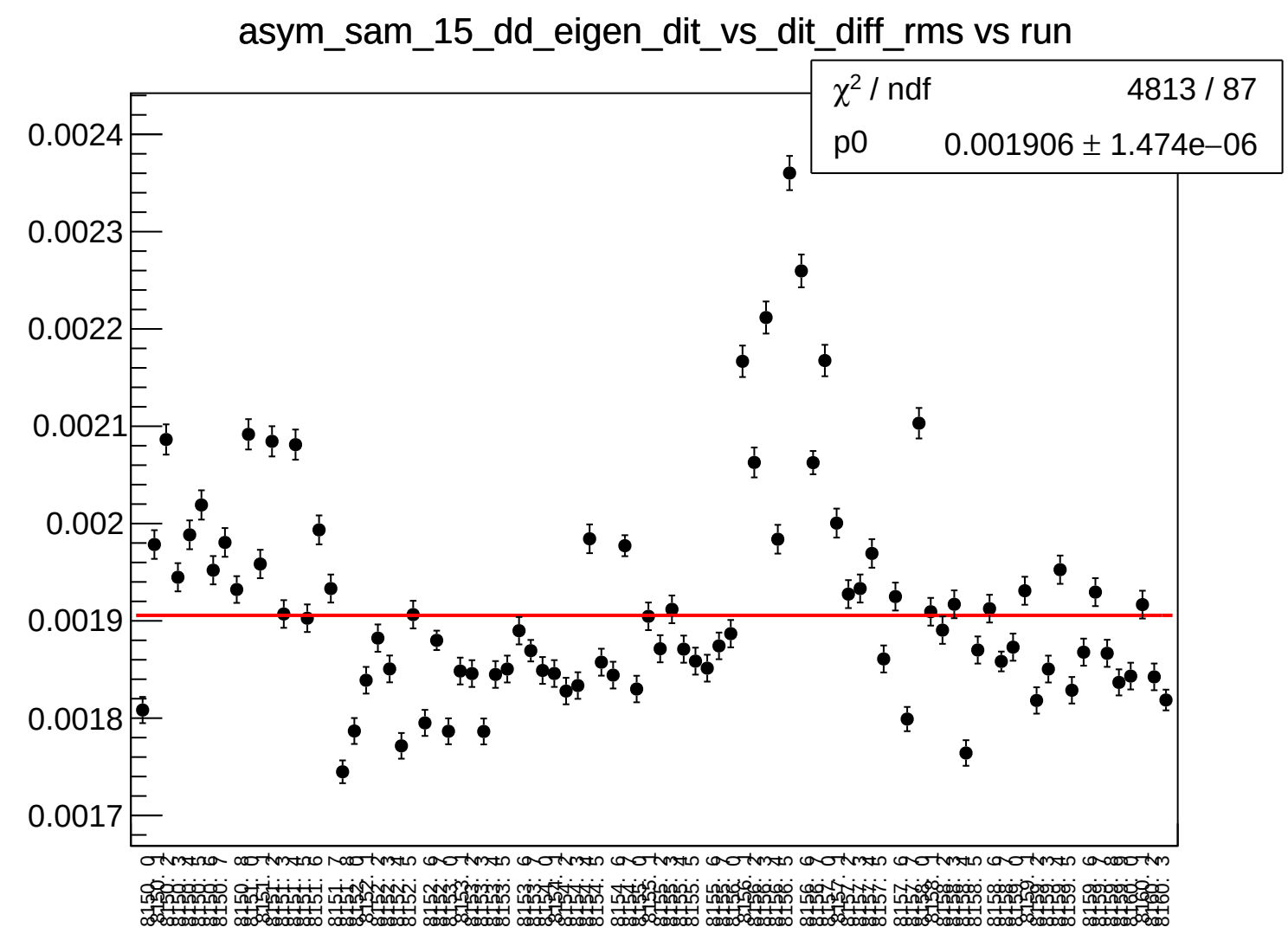

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7794 / 87
p0 38.71 ± 0.02996
46
44
42
40
38
36
34

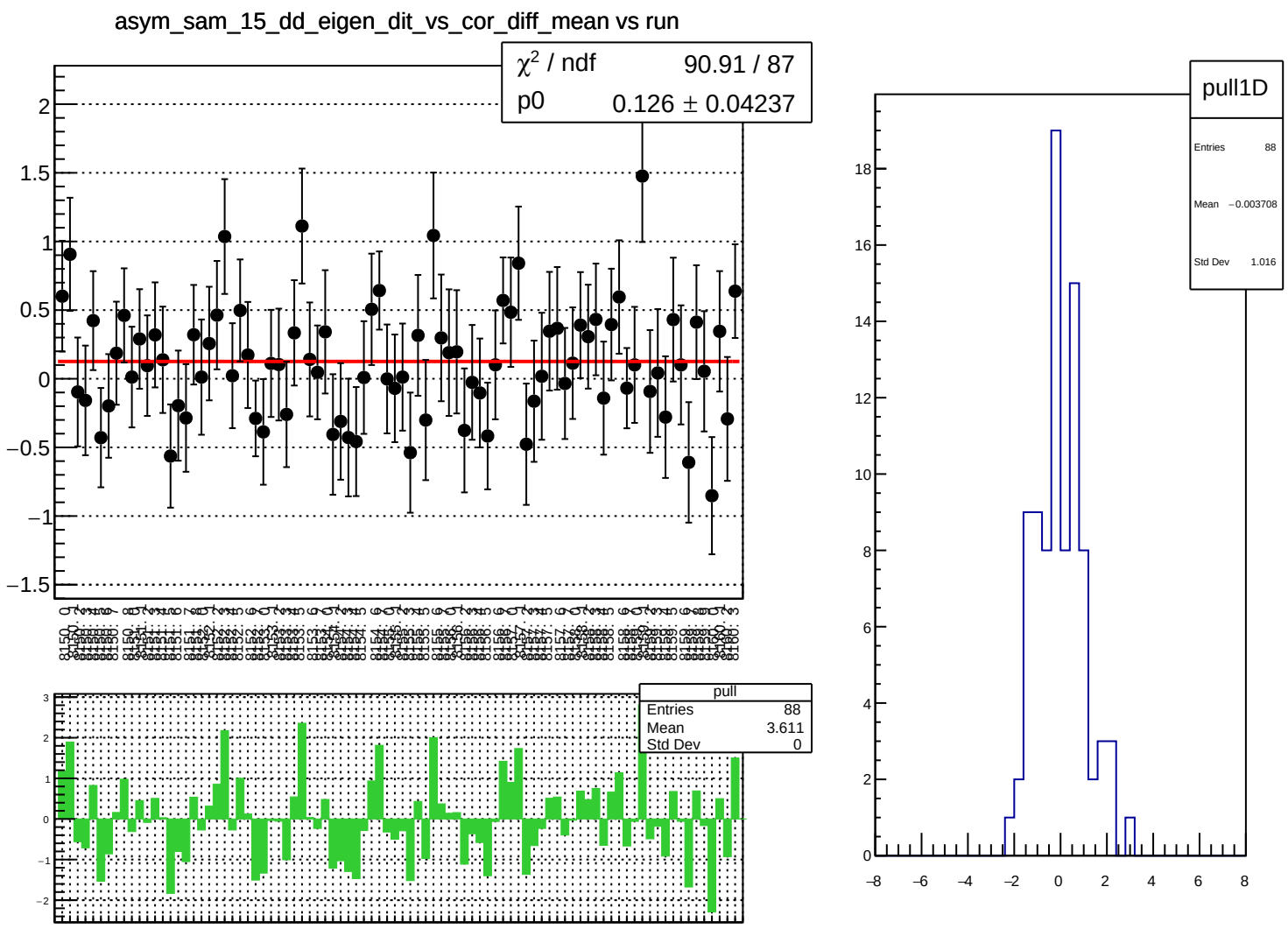

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.9 / 87
p0 0.126 ± 0.04237
pull
Entries 88
Mean 3.583
Std Dev 0

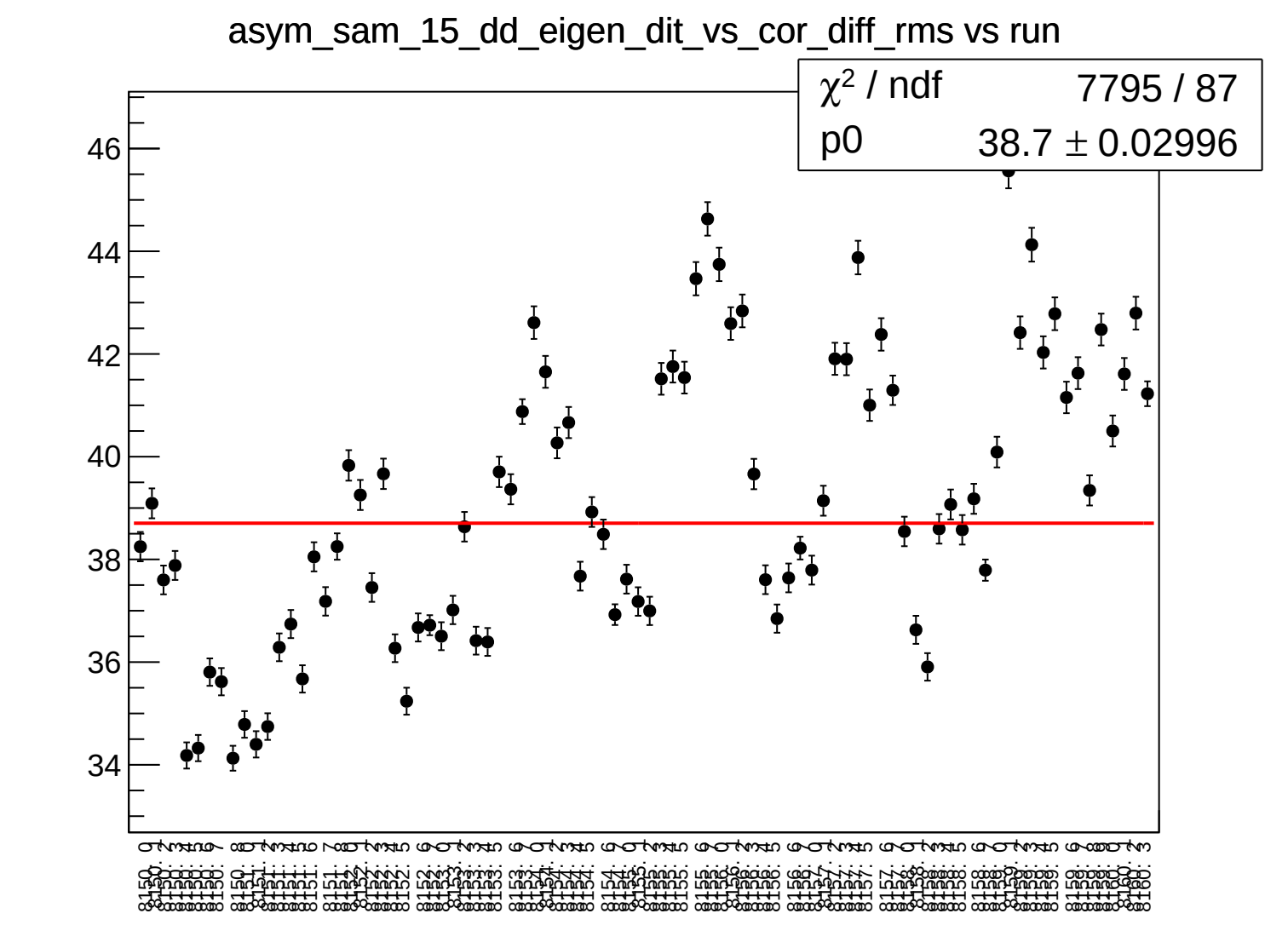

pull1D
Entries 88
Mean −0.003707
Std Dev 1.016

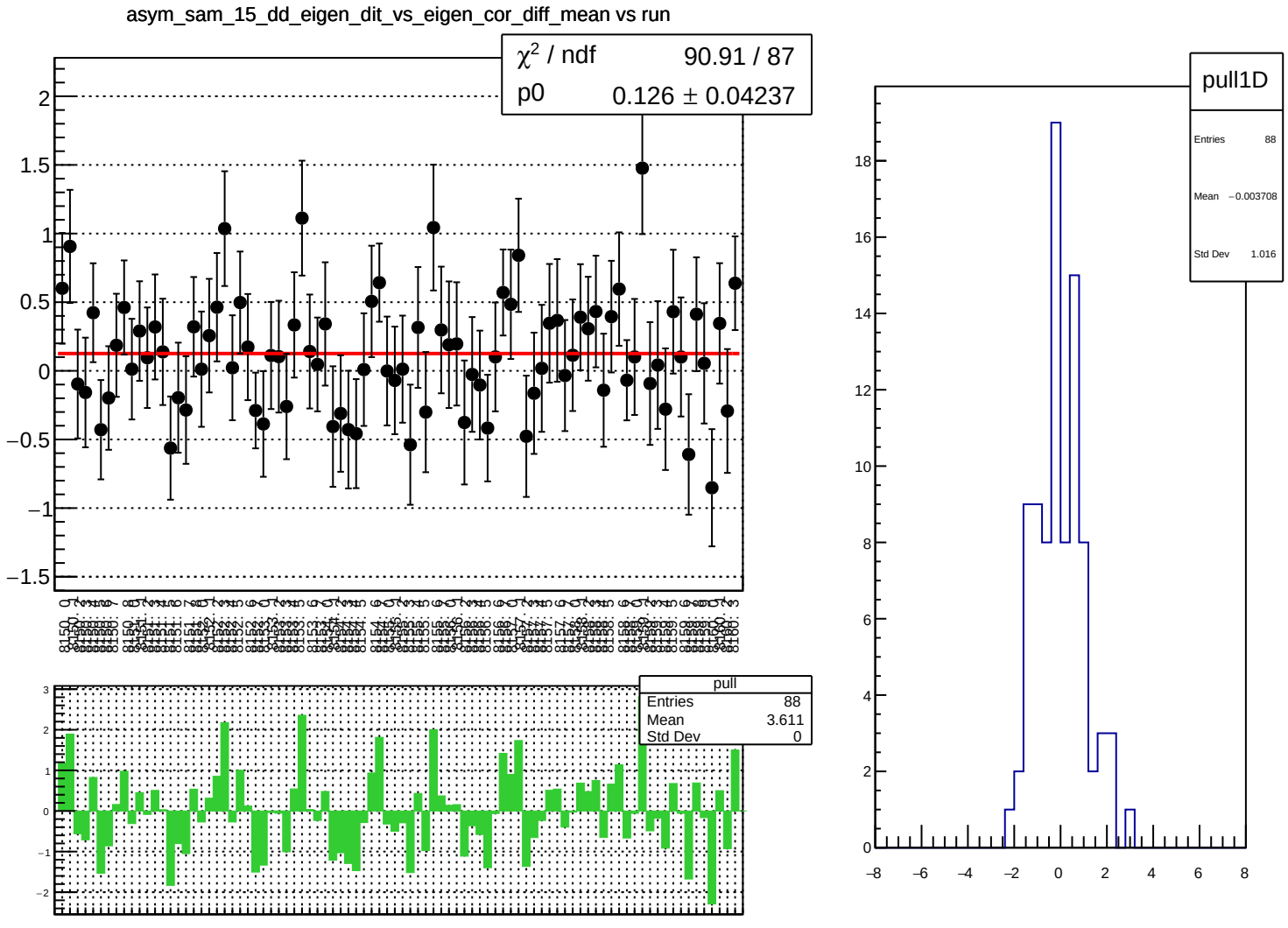

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7794 / 87
p0 38.71 ± 0.02996
46
44
42
40
38
36
34

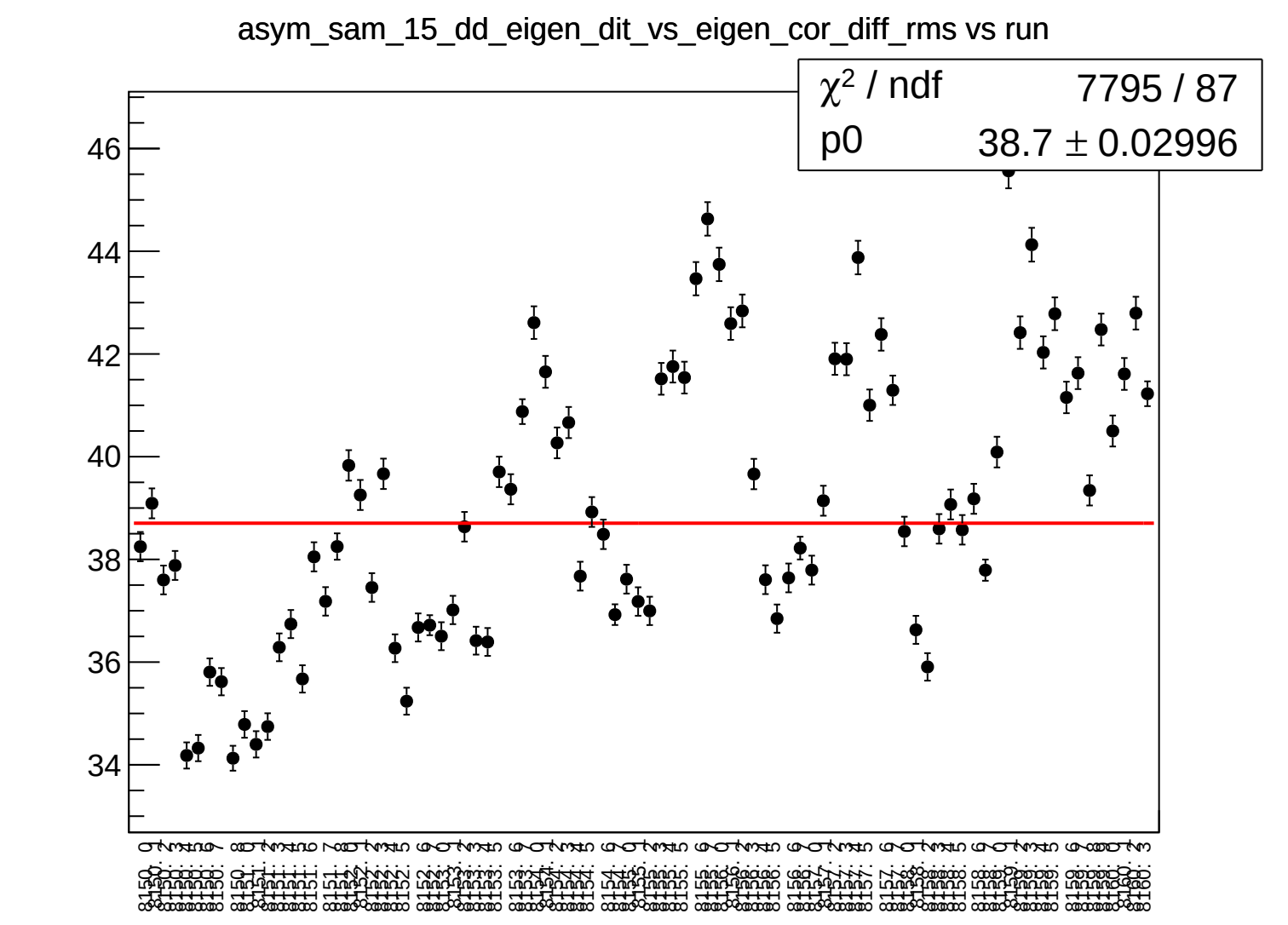

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.67 / 87
p0 2.406e−06 ± 2.084e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 88
Mean −122.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.009257
Std Dev 0.9455
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

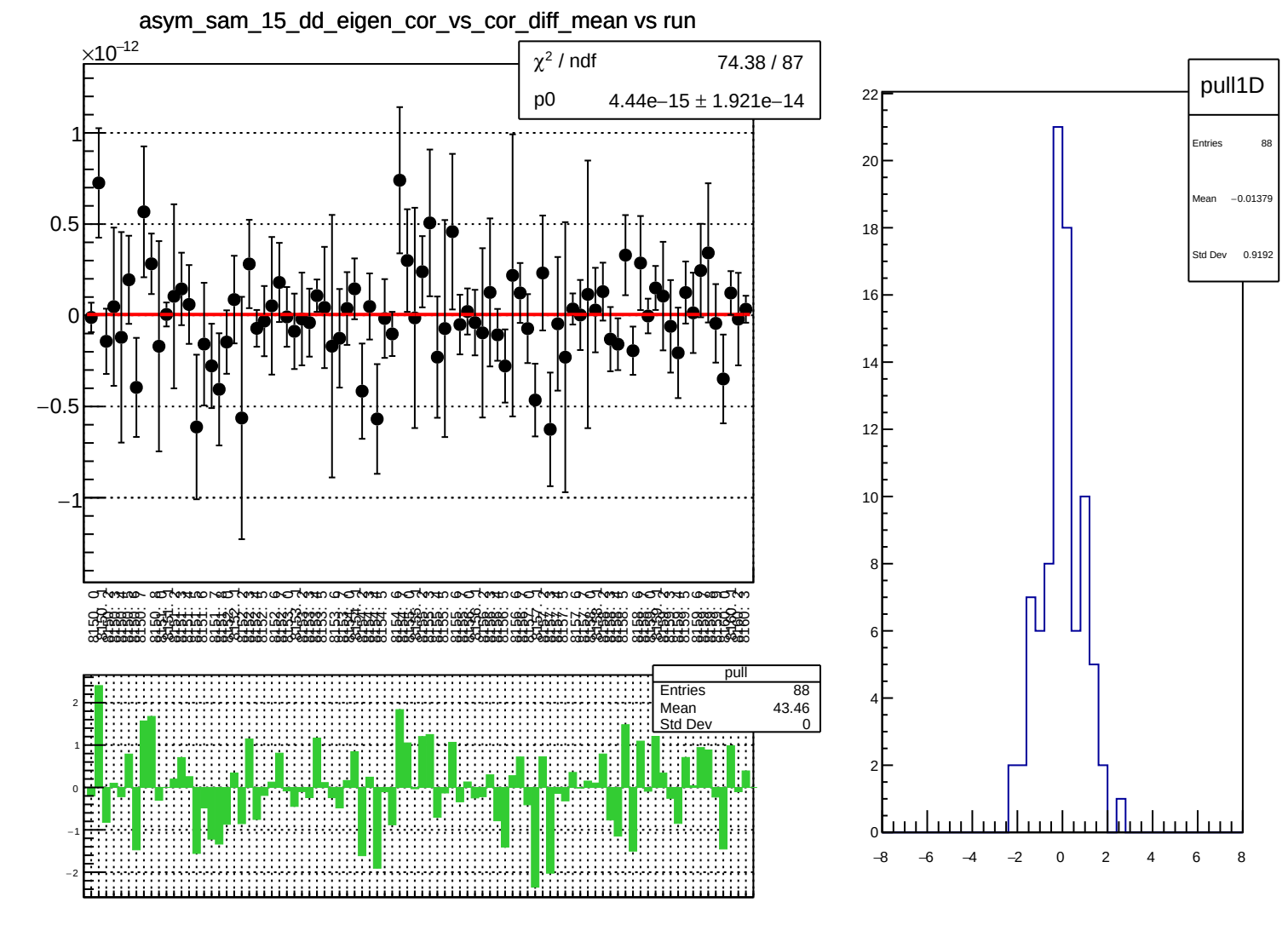

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4813 / 87
p0 0.001906 ± 1.474e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

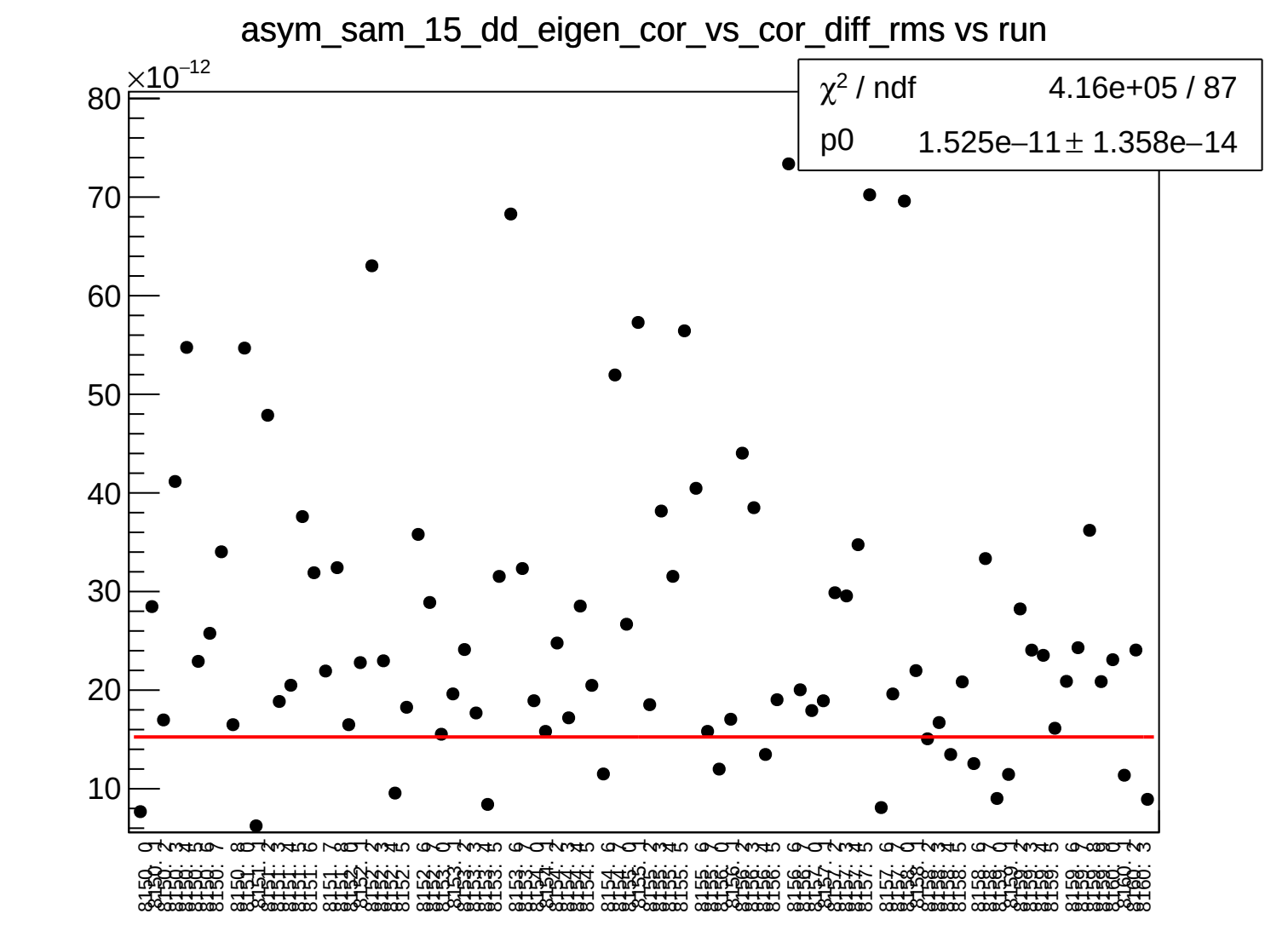

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.91 / 87
p0 0.126 ± 0.04237
pull
Entries 88
Mean 3.611
Std Dev 0
pull1D
Entries 88
Mean −0.003708
Std Dev 1.016

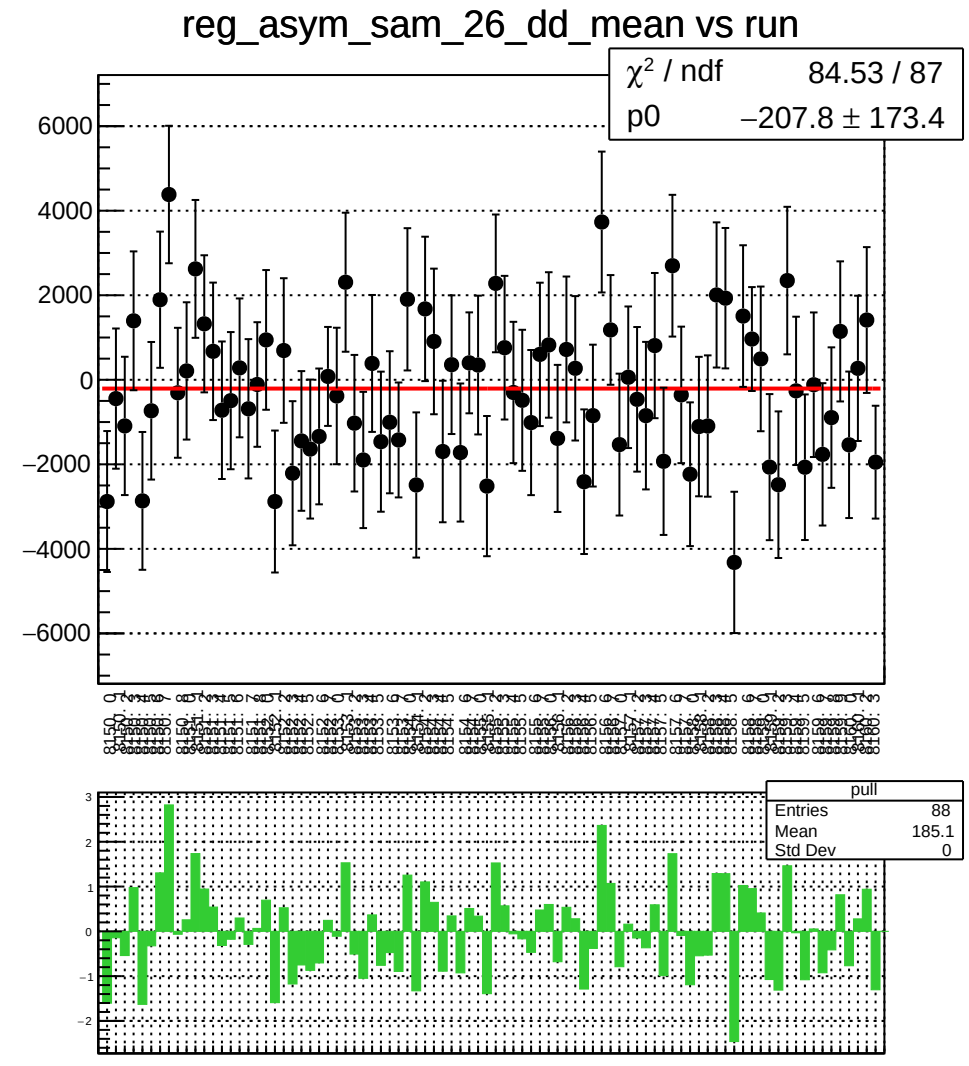

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7795 / 87
p0 38.7 ± 0.02996
46
44
42
40
38
36
34

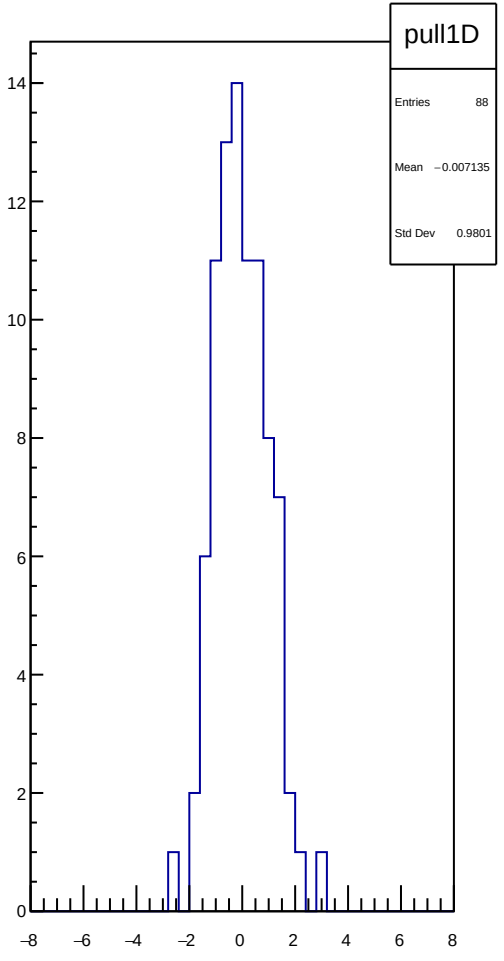

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.91 / 87
p0 0.126 ± 0.04237
pull
Entries 88
Mean 3.611
Std Dev 0
pull1D
Entries 88
Mean −0.003708
Std Dev 1.016

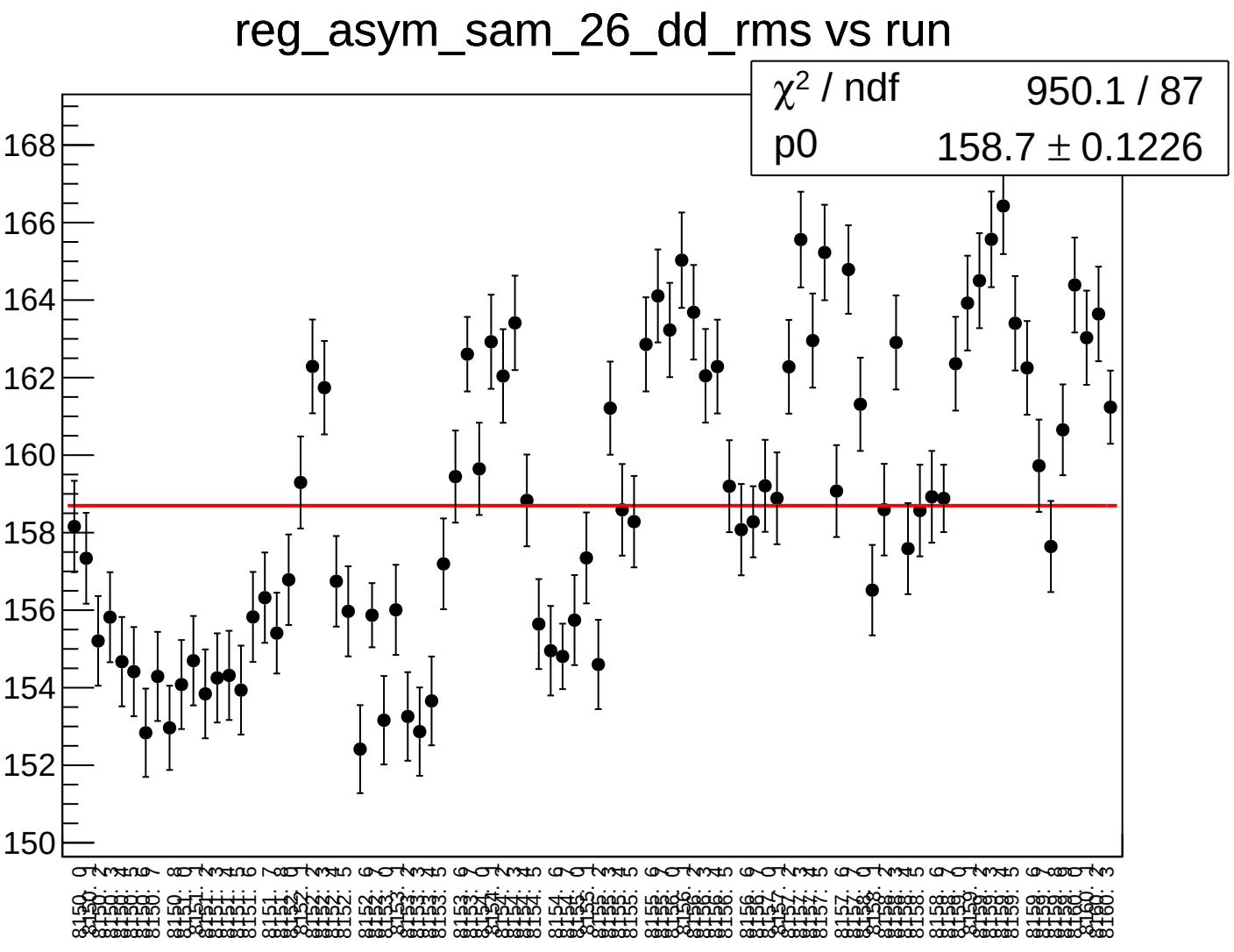

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7795 / 87
p0 38.7 ± 0.02996
46
44
42
40
38
36
34

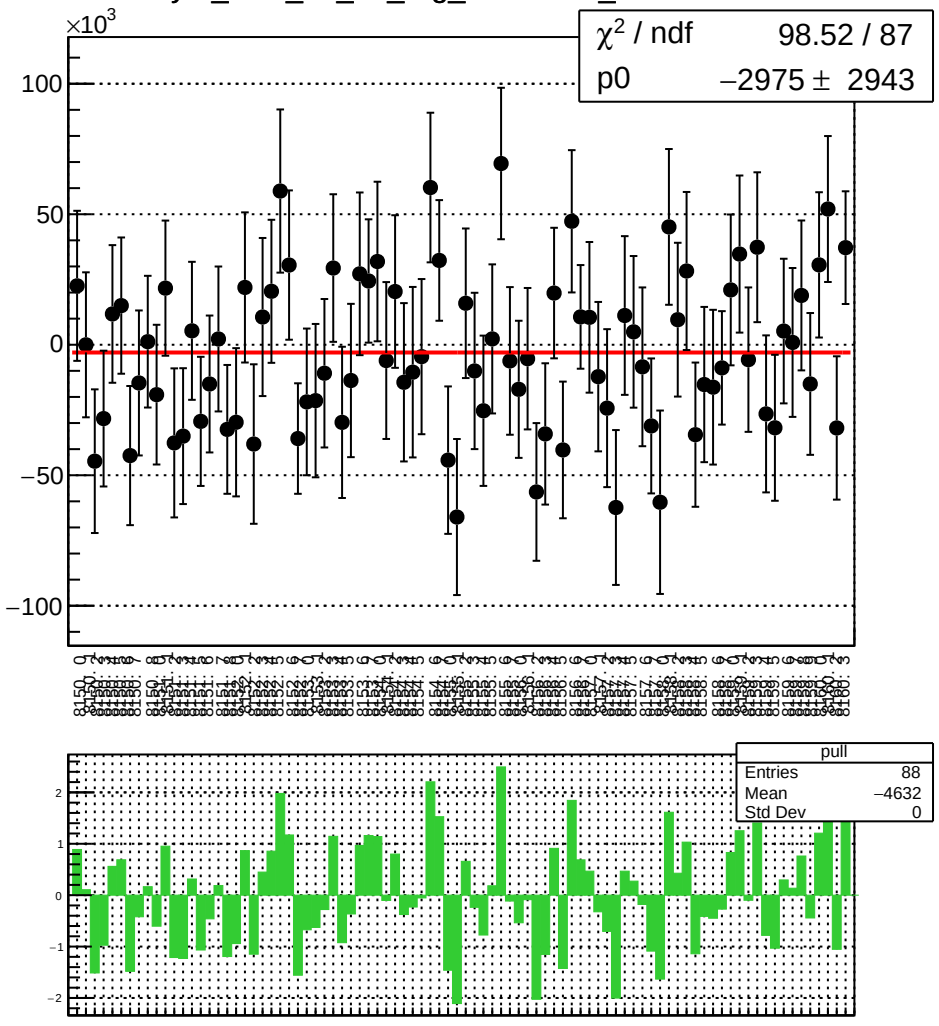

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.38 / 87
p0 4.44e−15 ± 1.921e−14
pull
Entries 88
Mean 43.46
Std Dev 0
pull1D
Entries 88
Mean −0.01379
Std Dev 0.9192

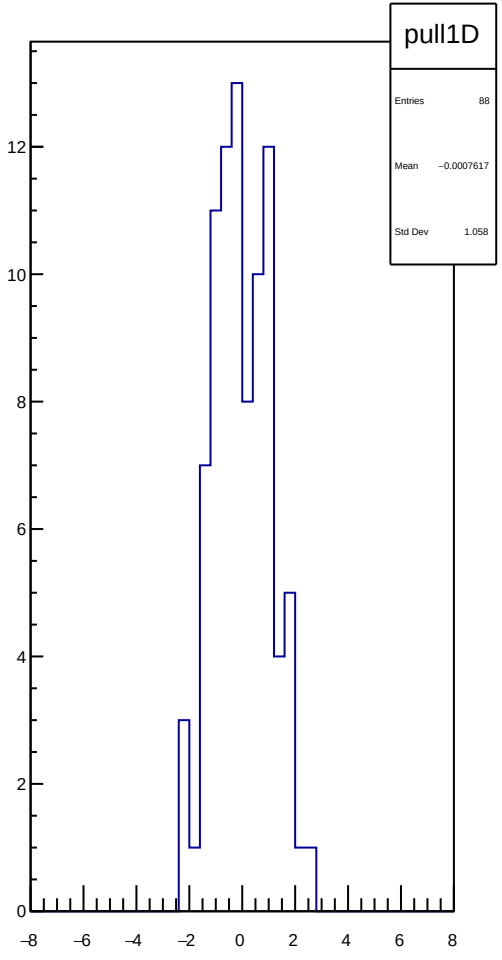

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
80
70
60
50
40
30
20
10
χ² / ndf 4.16e+05 / 87
p0 1.525e−11 ± 1.358e−14

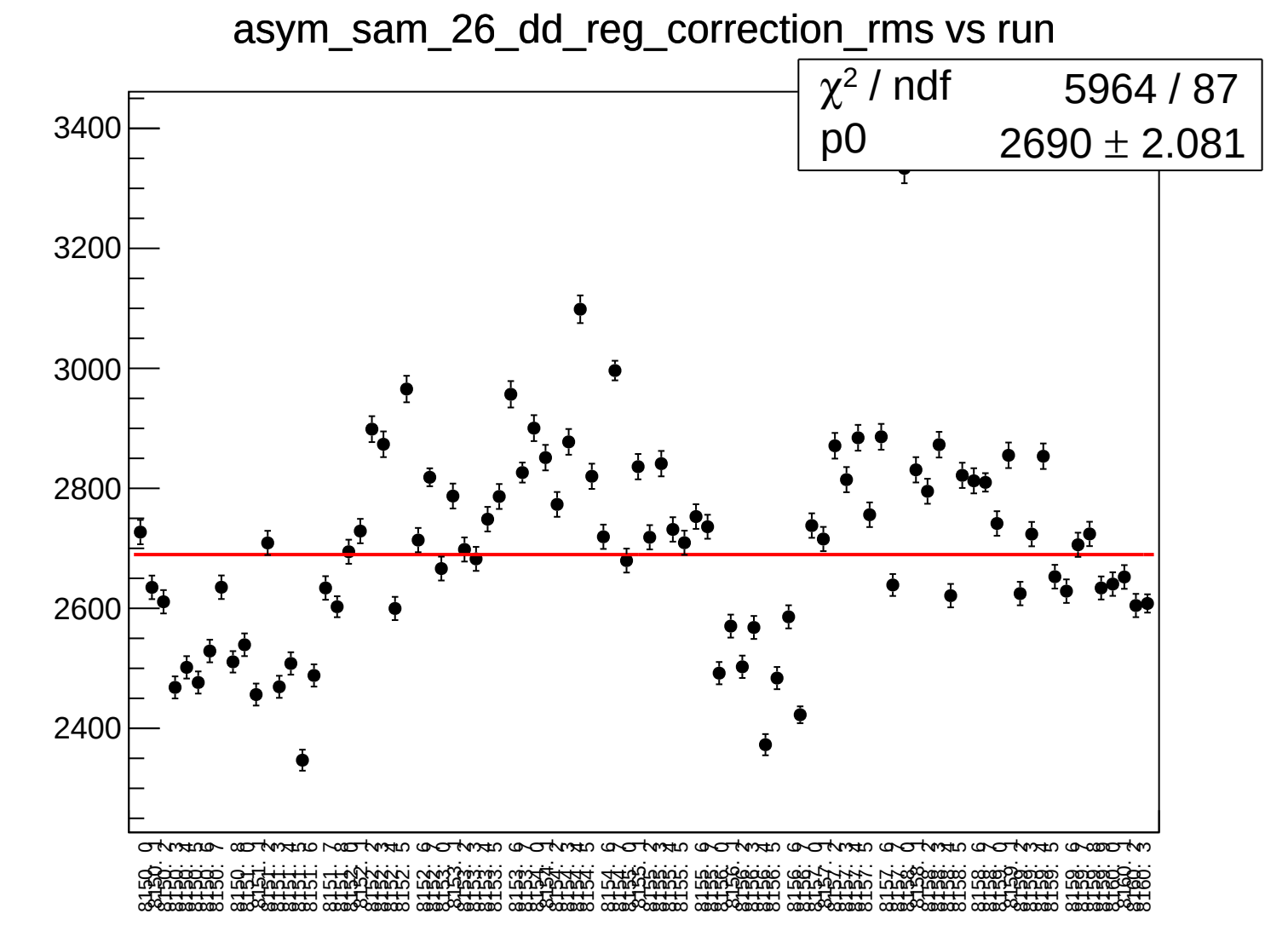

reg_asym_sam_26_dd_mean vs run
χ² / ndf 84.53 / 87
p0 −207.8 ± 173.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 185.1
Std Dev 0
3
2
1
0
−1
−2

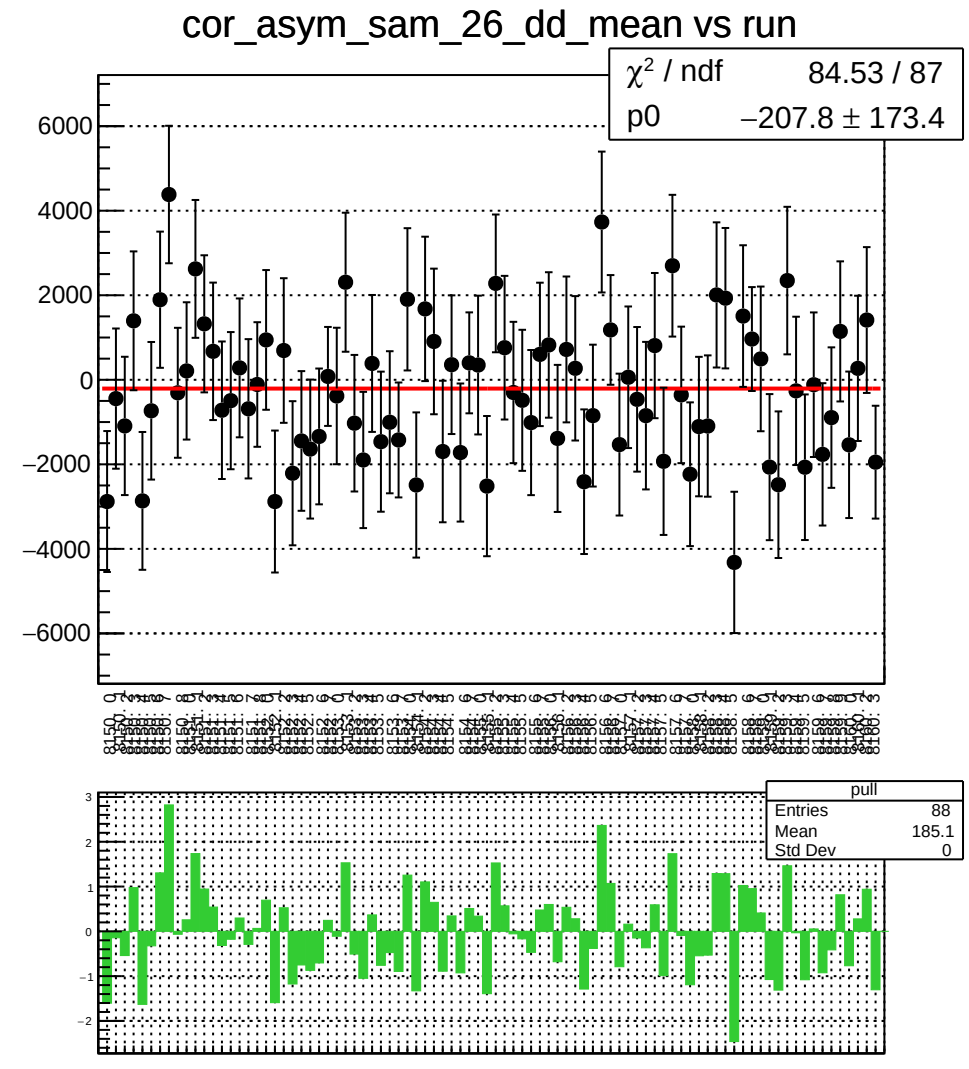

pull1D
Entries 88
Mean −0.007135
Std Dev 0.9801
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

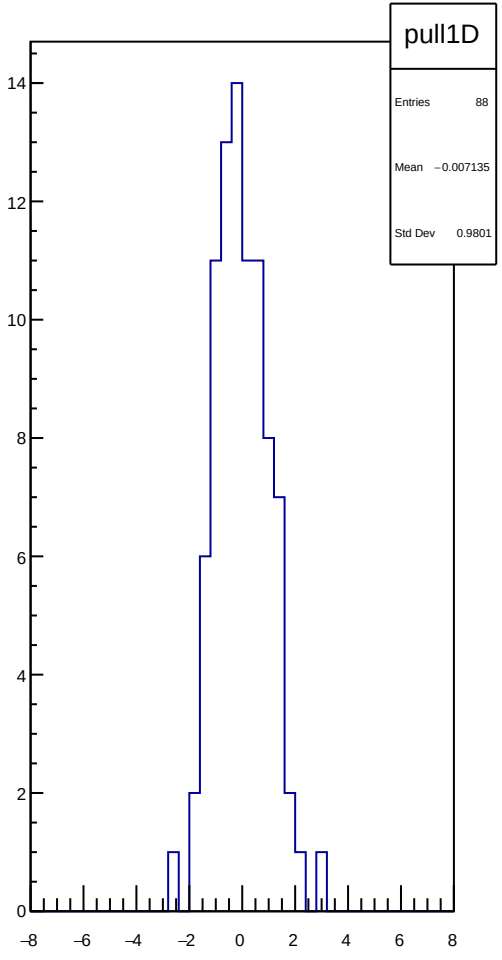

reg_asym_sam_26_dd_rms vs run
χ² / ndf 950.1 / 87
p0 158.7 ± 0.1226
168
166
164
162
160
158
156
154
152
150

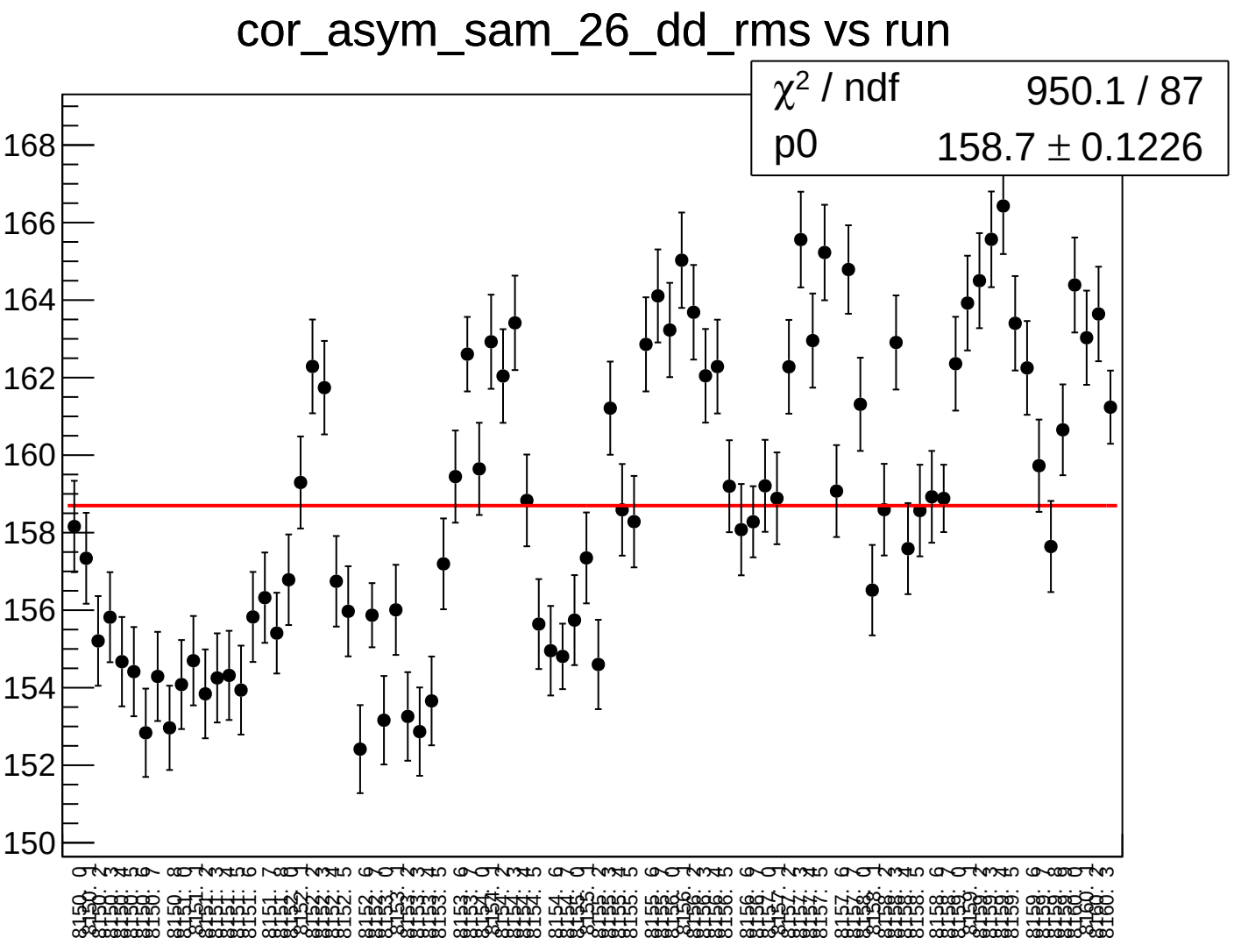

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 98.52 / 87
p0 −2975 ± 2943
100
50
0
−50
−100
pull
Entries 88
Mean −4632
Std Dev 0
2
1
0
−1
−2

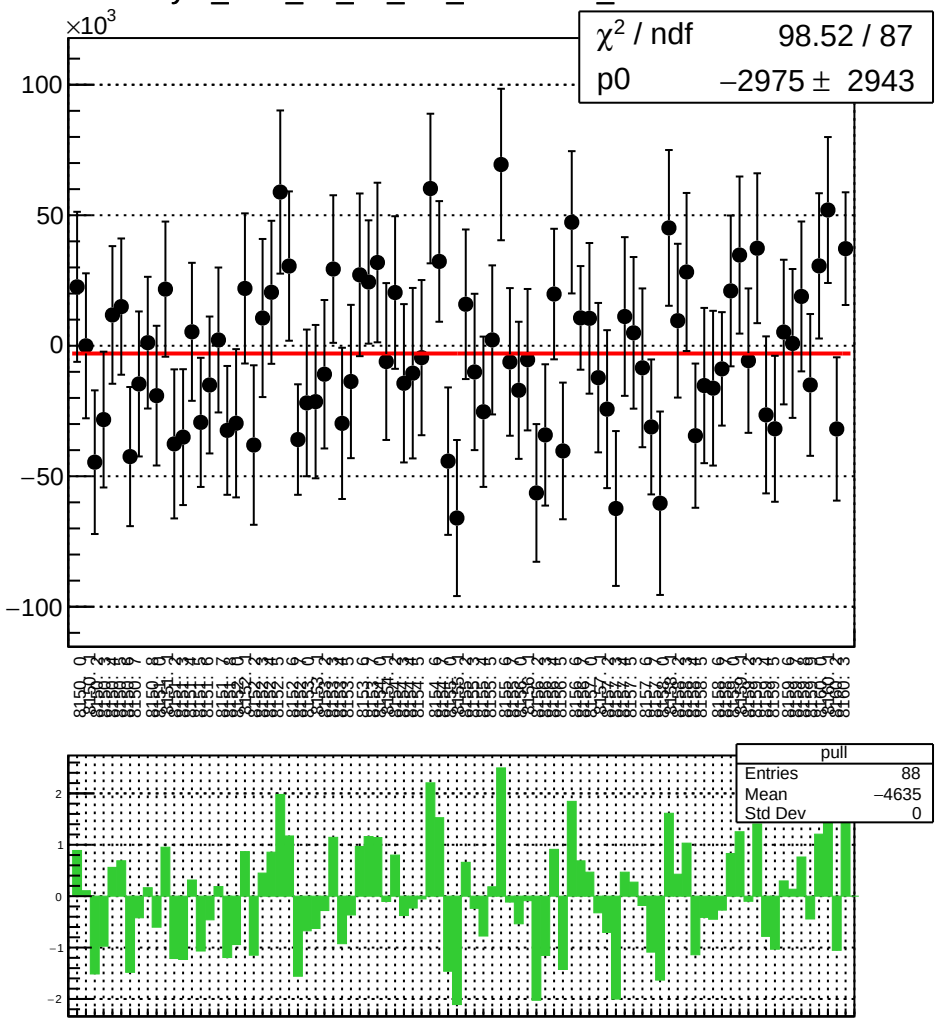

pull1D
Entries 88
Mean −0.0007617
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

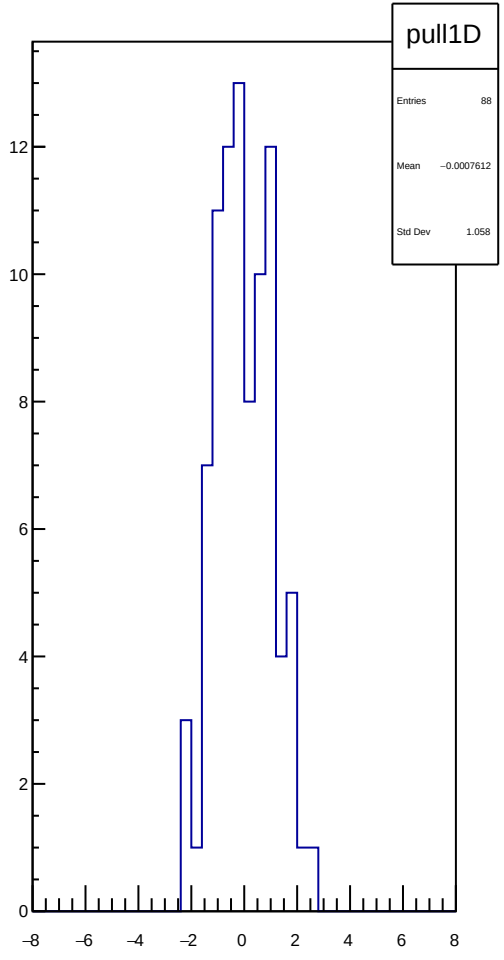

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 5964 / 87
p0 2690 ± 2.081
3400
3200
3000
2800
2600
2400

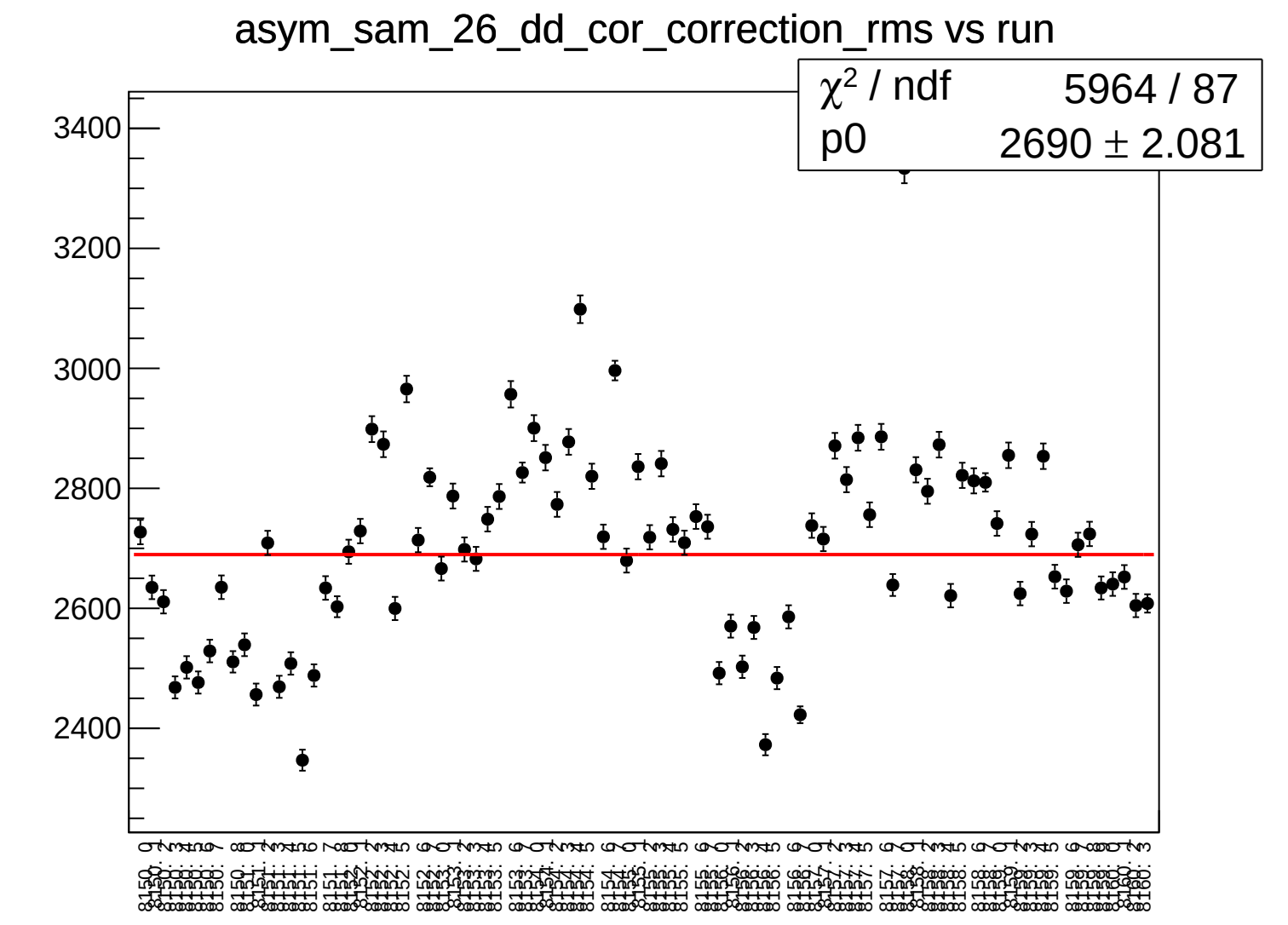

cor_asym_sam_26_dd_mean vs run
χ² / ndf 84.53 / 87
p0 −207.8 ± 173.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 185.1
Std Dev 0
3
2
1
0
−1
−2

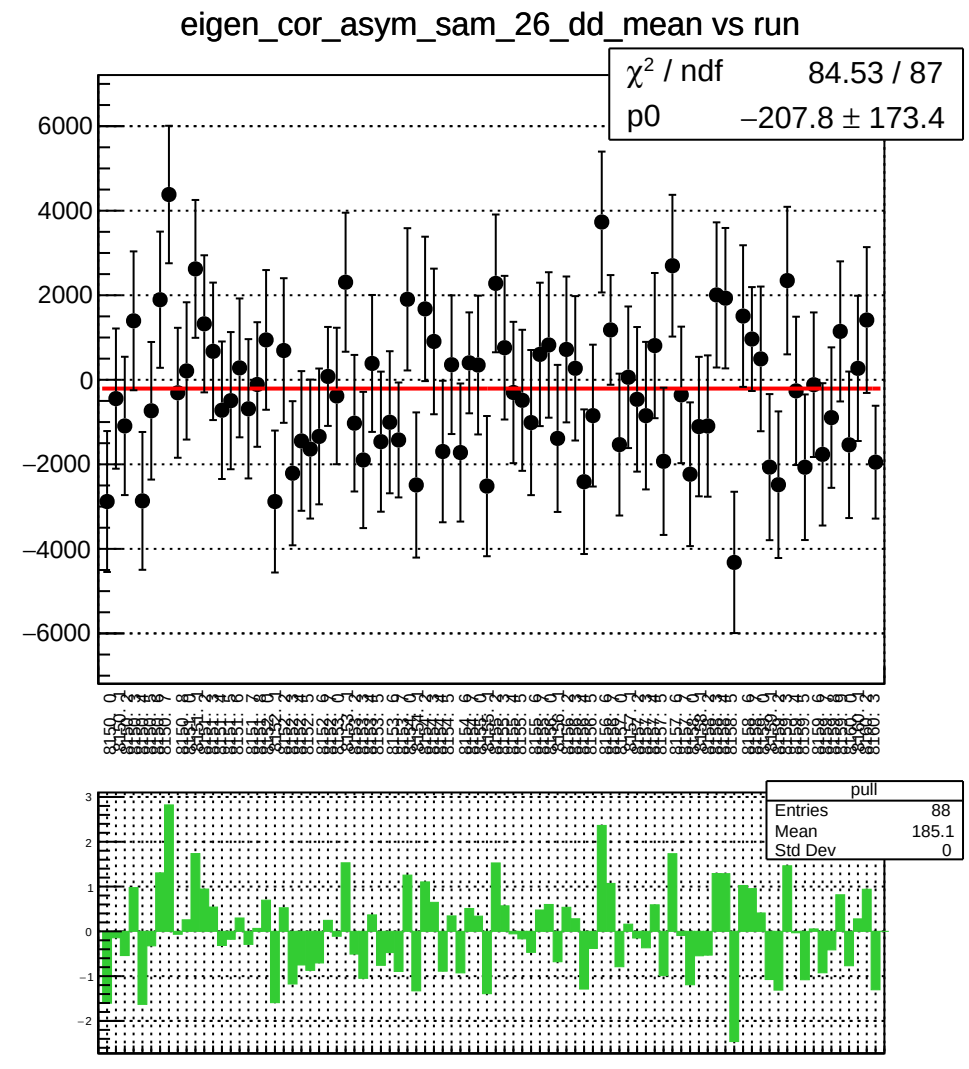

pull1D
Entries 88
Mean −0.007135
Std Dev 0.9801
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

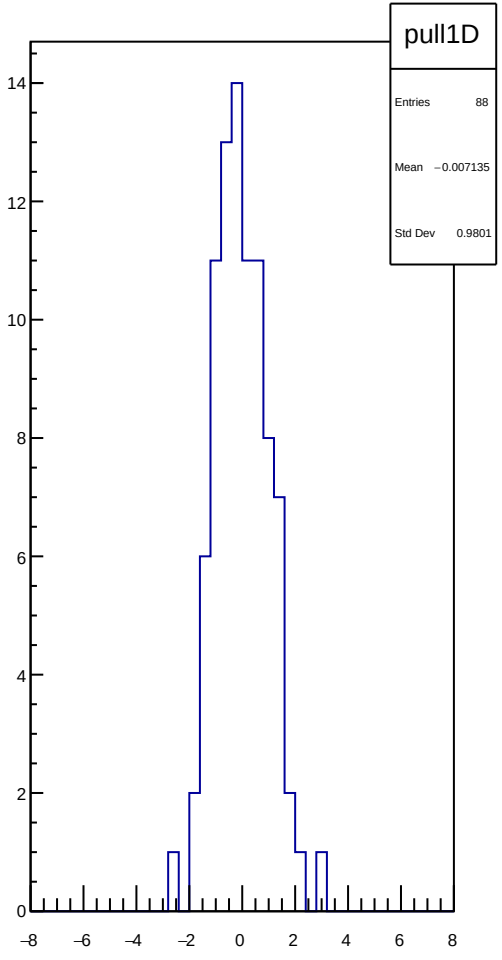

cor_asym_sam_26_dd_rms vs run
χ² / ndf 950.1 / 87
p0 158.7 ± 0.1226
168
166
164
162
160
158
156
154
152
150

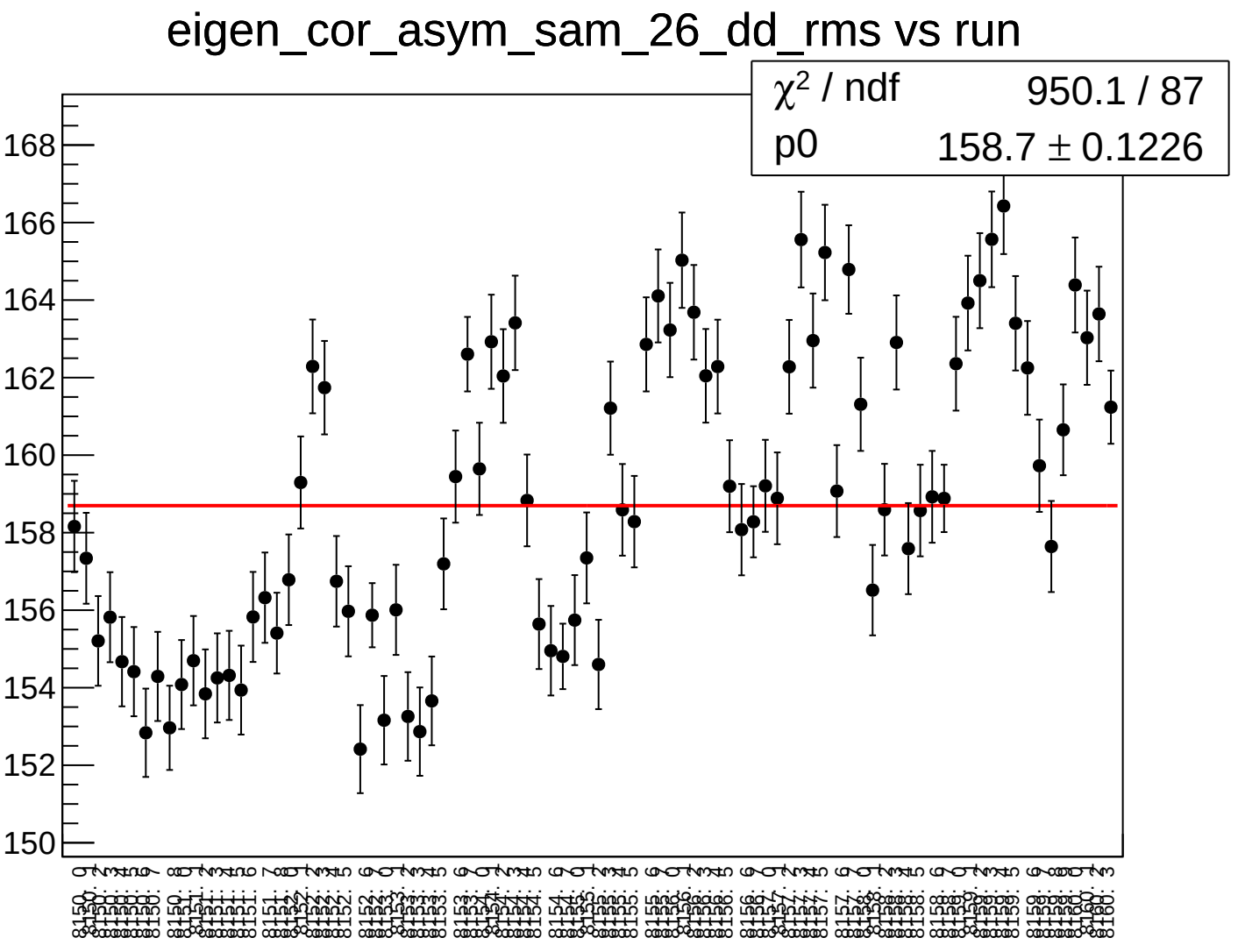

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 98.52 / 87
p0 −2975 ± 2943
100
50
0
−50
−100
pull
Entries 88
Mean −4635
Std Dev 0
2
1
0
−1
−2

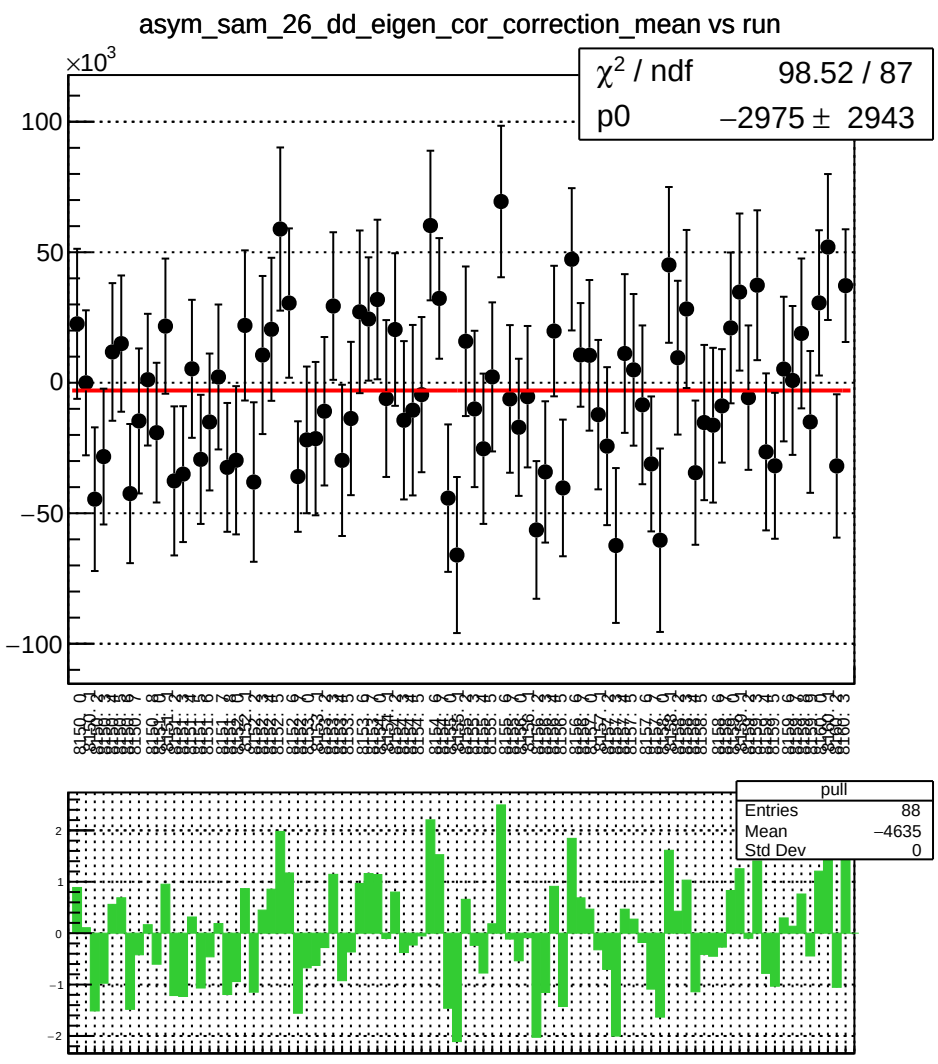

pull1D
Entries 88
Mean −0.0007612
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

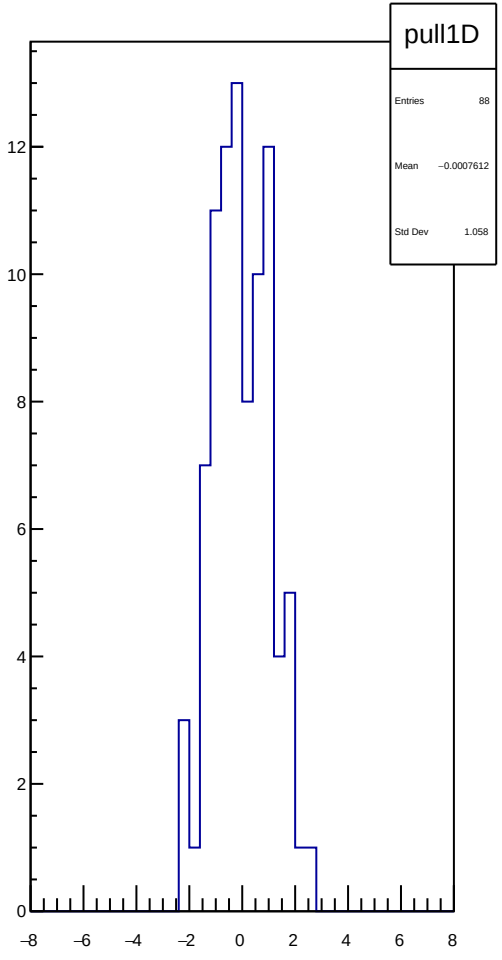

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 5964 / 87
p0 2690 ± 2.081
3400
3200
3000
2800
2600
2400

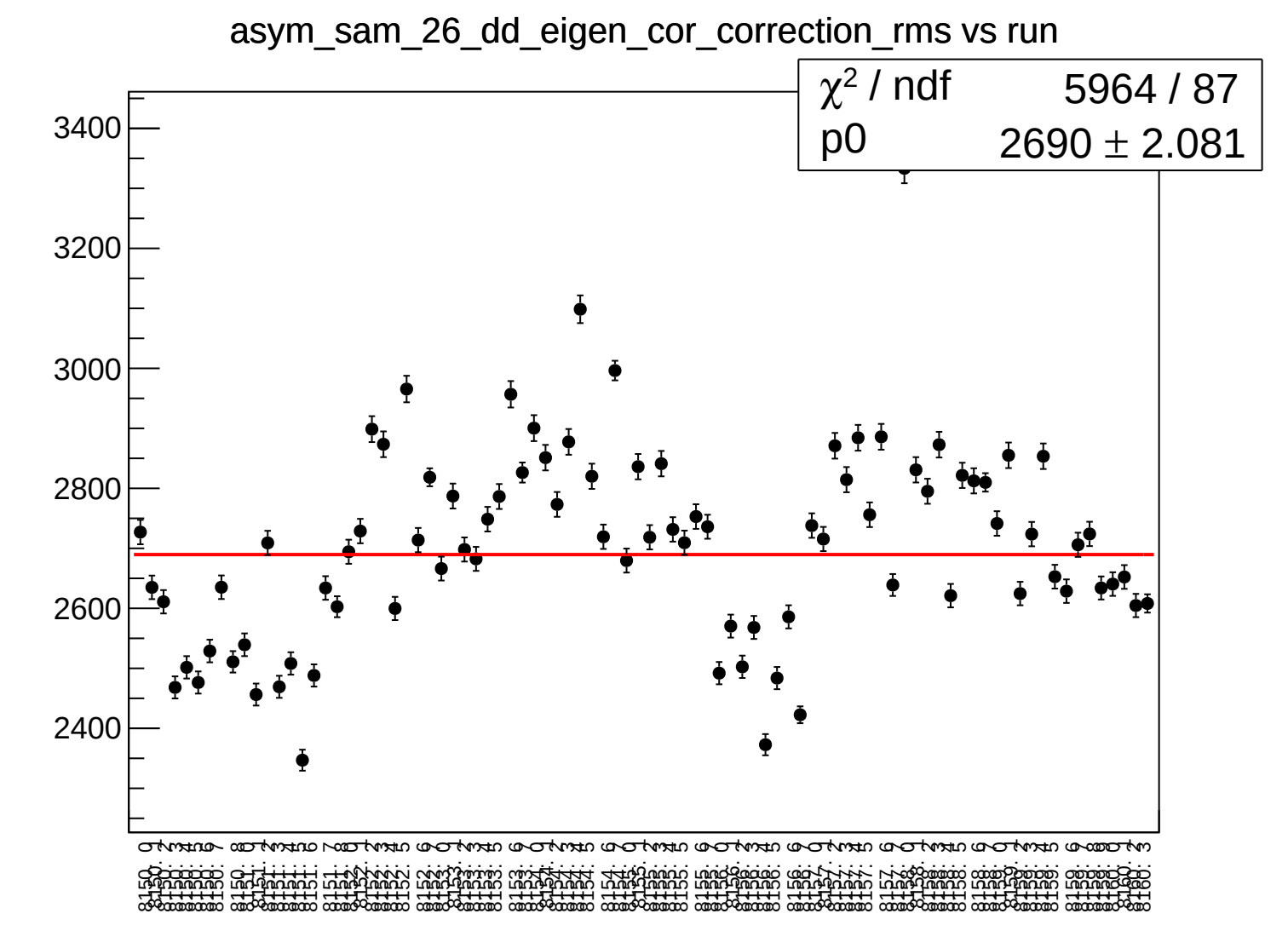

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 84.53 / 87
p0 −207.8 ± 173.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 185.1
Std Dev 0
3
2
1
0
−1
−2

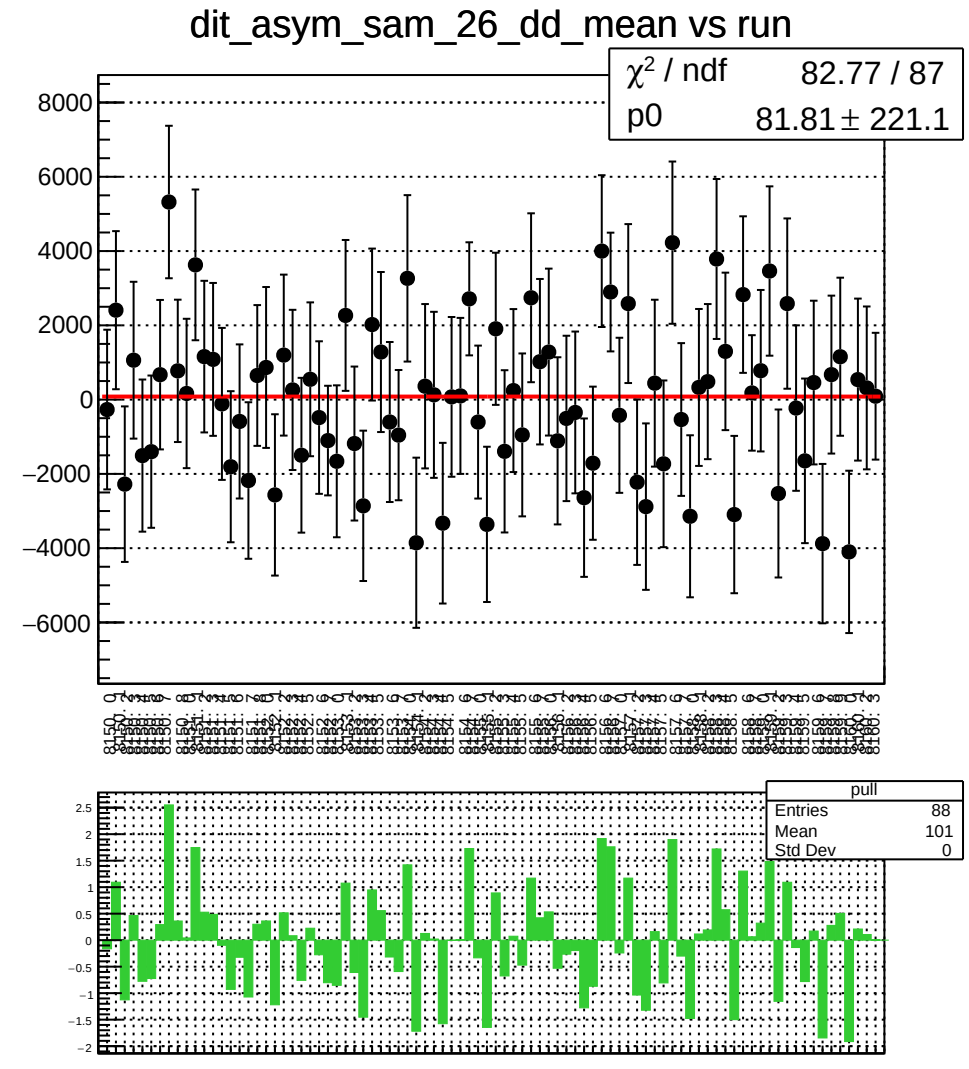

pull1D
Entries 88
Mean −0.007135
Std Dev 0.9801
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

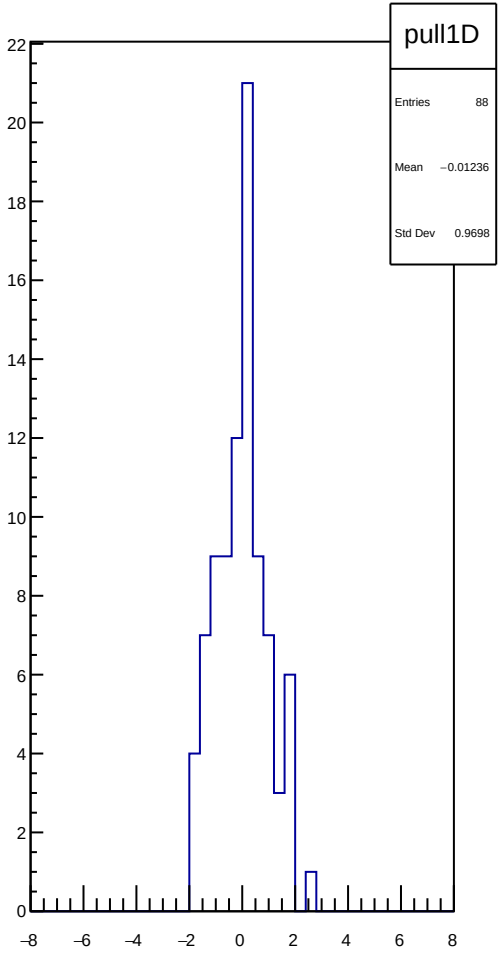

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 950.1 / 87
p0 158.7 ± 0.1226
168
166
164
162
160
158
156
154
152
150

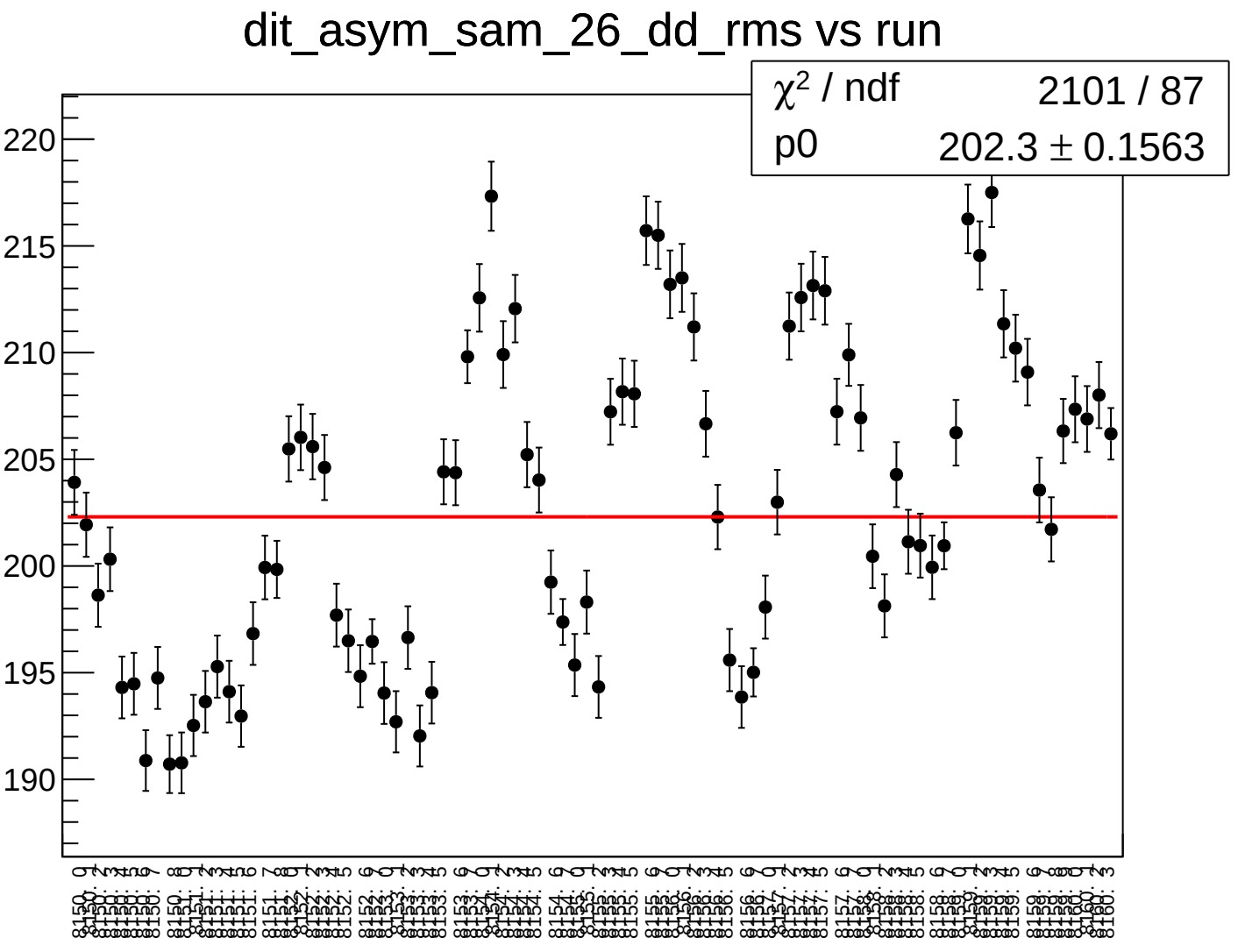

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.52 / 87
p0 −2975 ± 2943
100
50
0
−50
−100
pull
Entries 88
Mean −4635
Std Dev 0
2
1
0
−1
−2

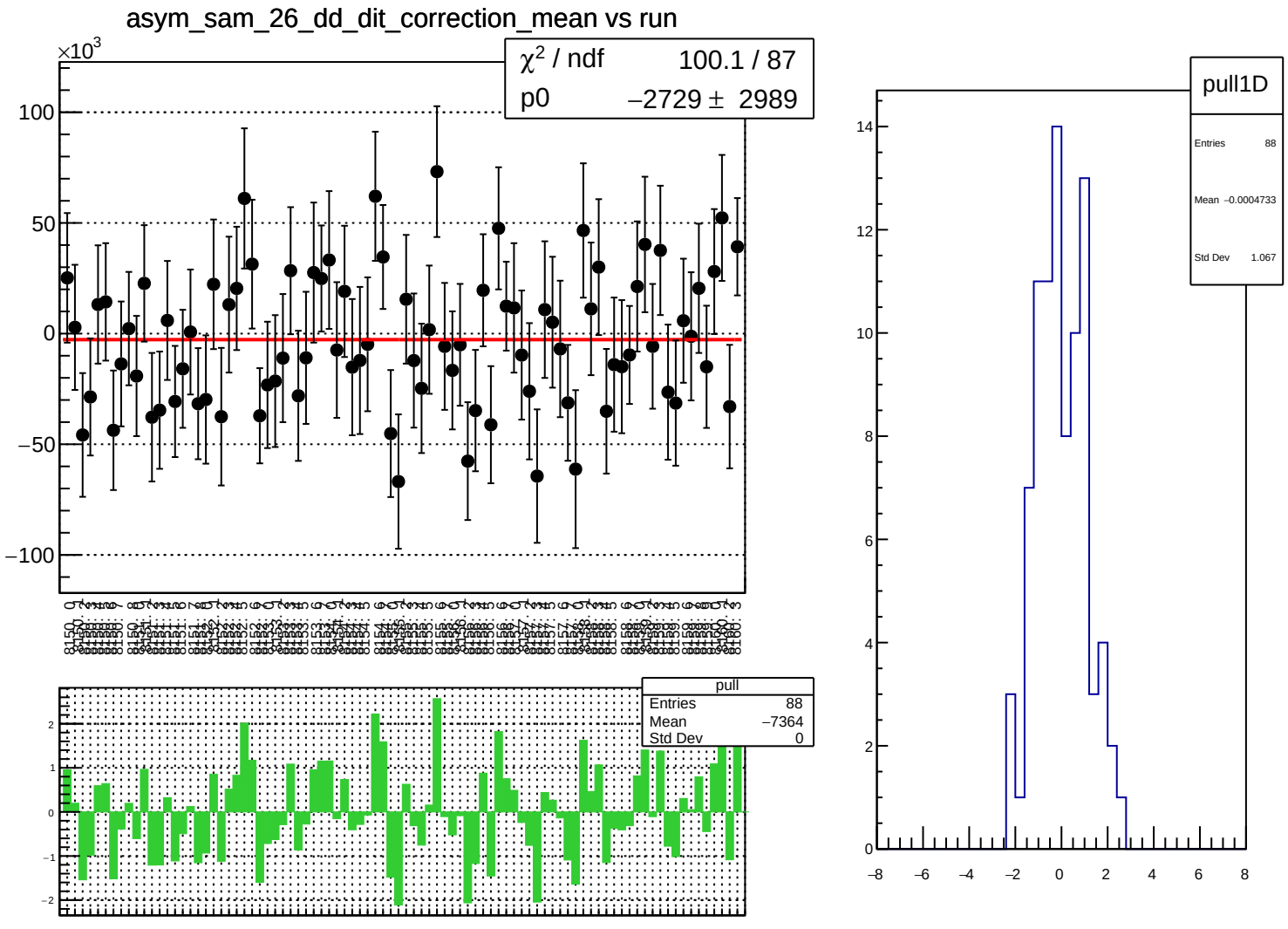

pull1D
Entries 88
Mean −0.0007612
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

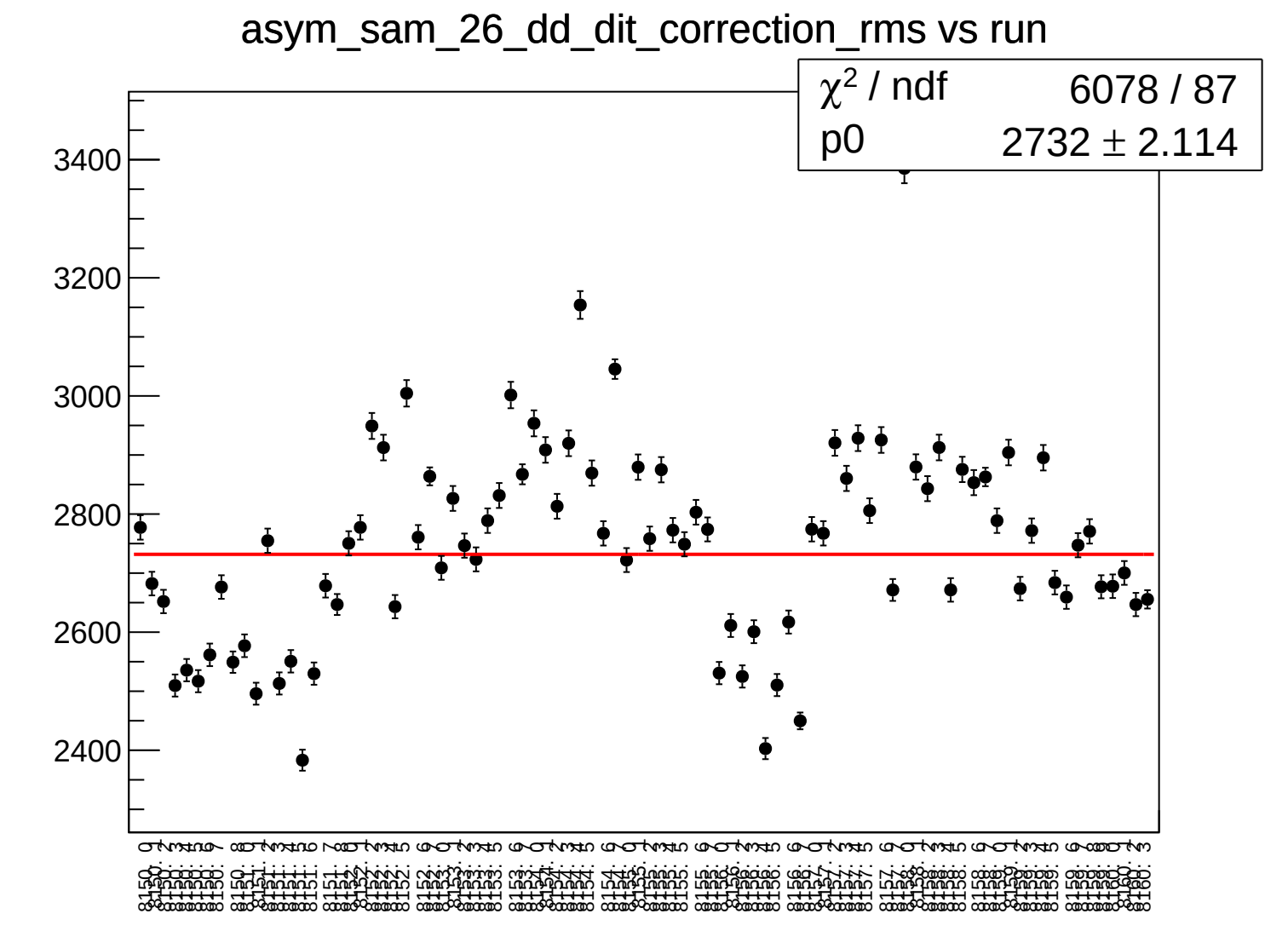

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5964 / 87
p0 2690 ± 2.081
3400
3200
3000
2800
2600
2400

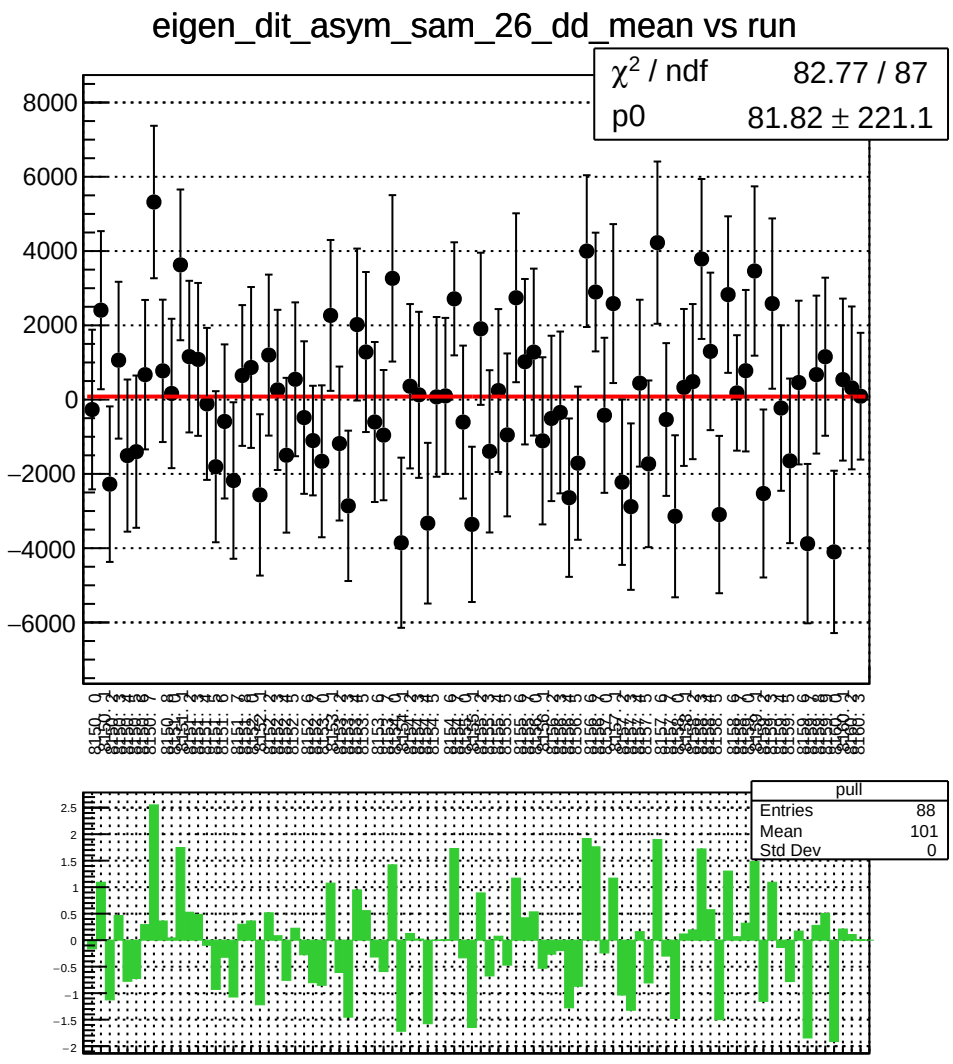

dit_asym_sam_26_dd_mean vs run
χ² / ndf 82.77 / 87
p0 81.81 ± 221.1
pull
Entries 88
Mean 101
Std Dev 0

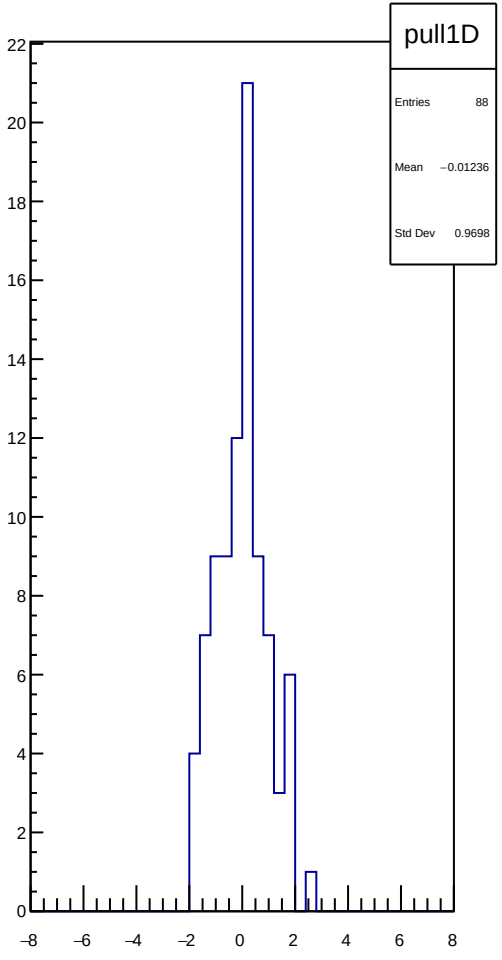

pull1D
Entries 88
Mean −0.01236
Std Dev 0.9698

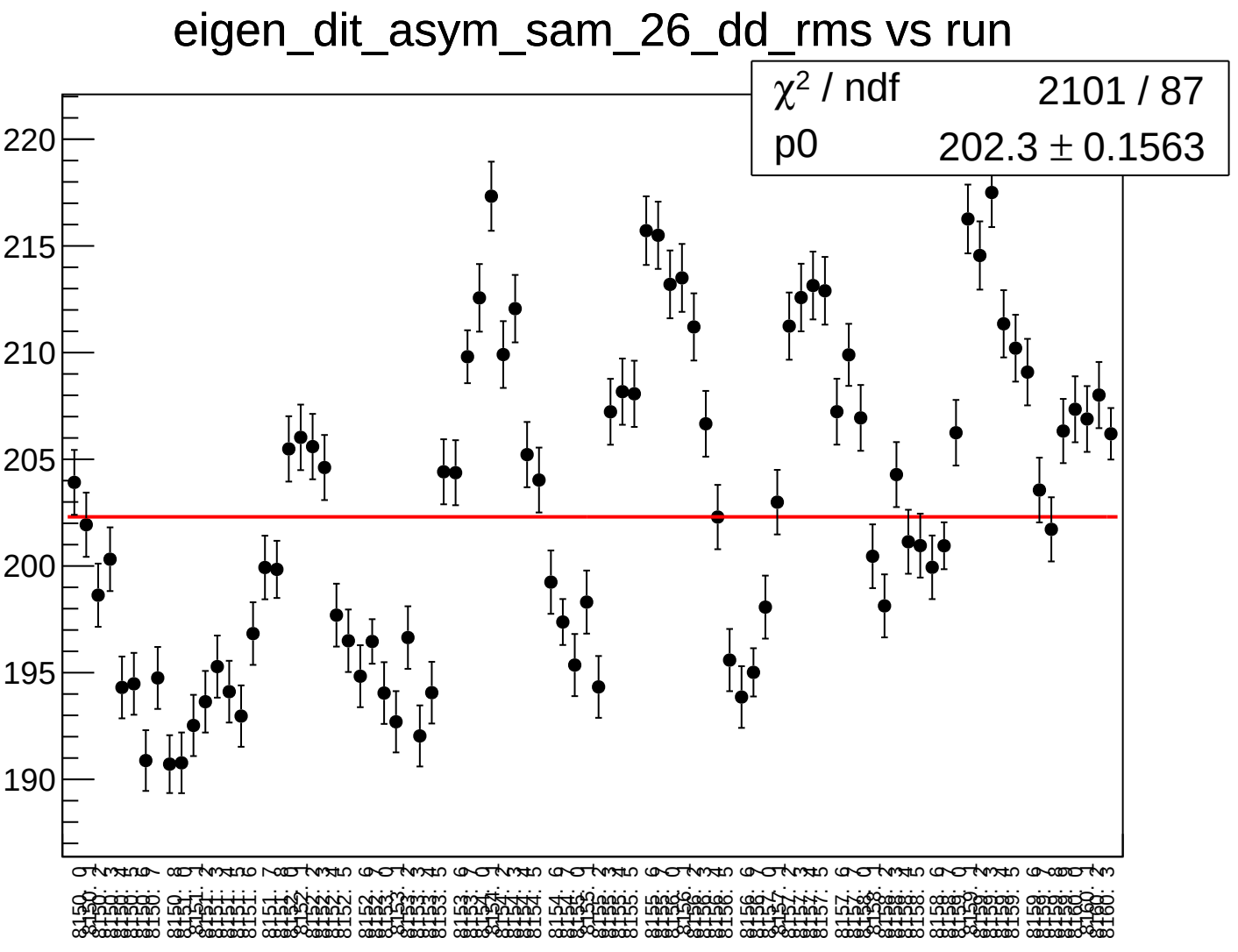

dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 2101 / 87
p0 202.3 ± 0.1563
220
215
210
205
200
195
190

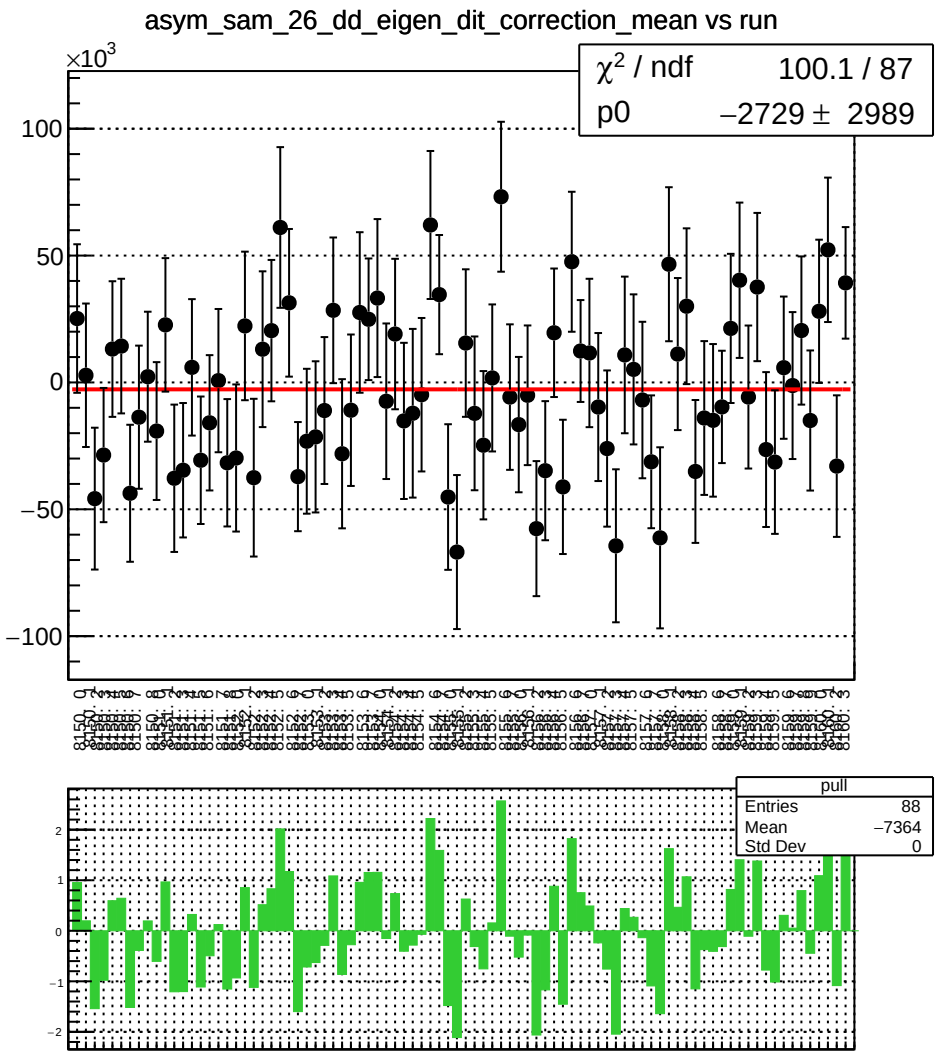

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.1 / 87
p0 −2729 ± 2989
100
50
0
−50
−100
pull
Entries 88
Mean −7364
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0004733
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

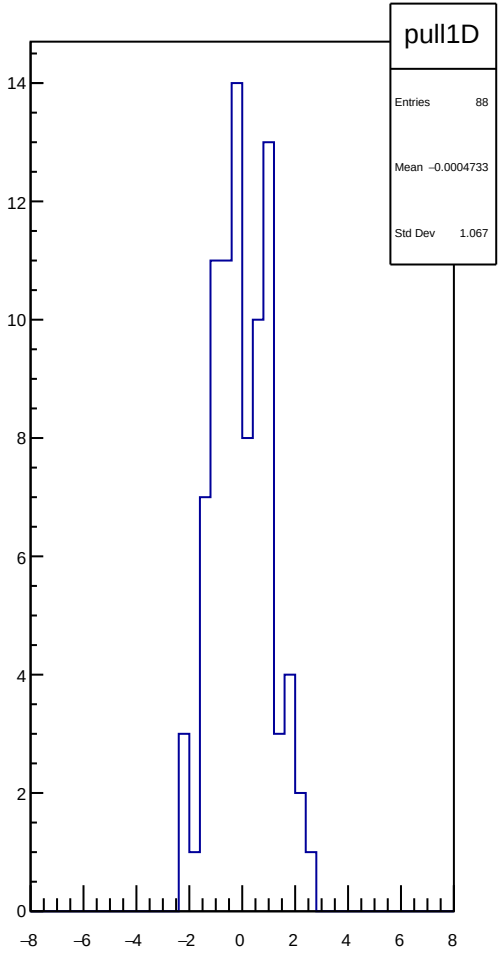

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 6078 / 87
p0 2732 ± 2.114
3400
3200
3000
2800
2600
2400

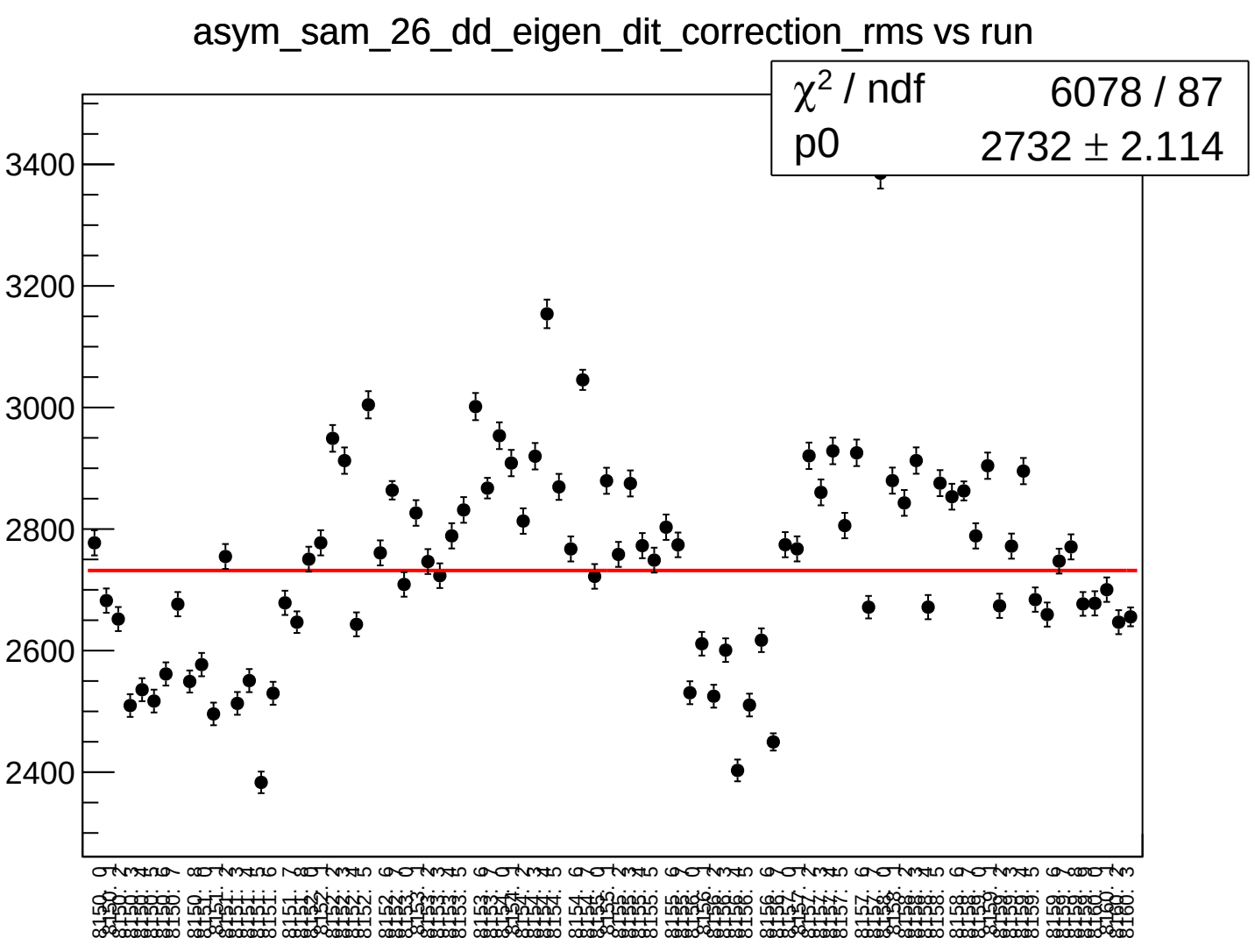

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 82.77 / 87
p0 81.82 ± 221.1
pull
Entries 88
Mean 101
Std Dev 0

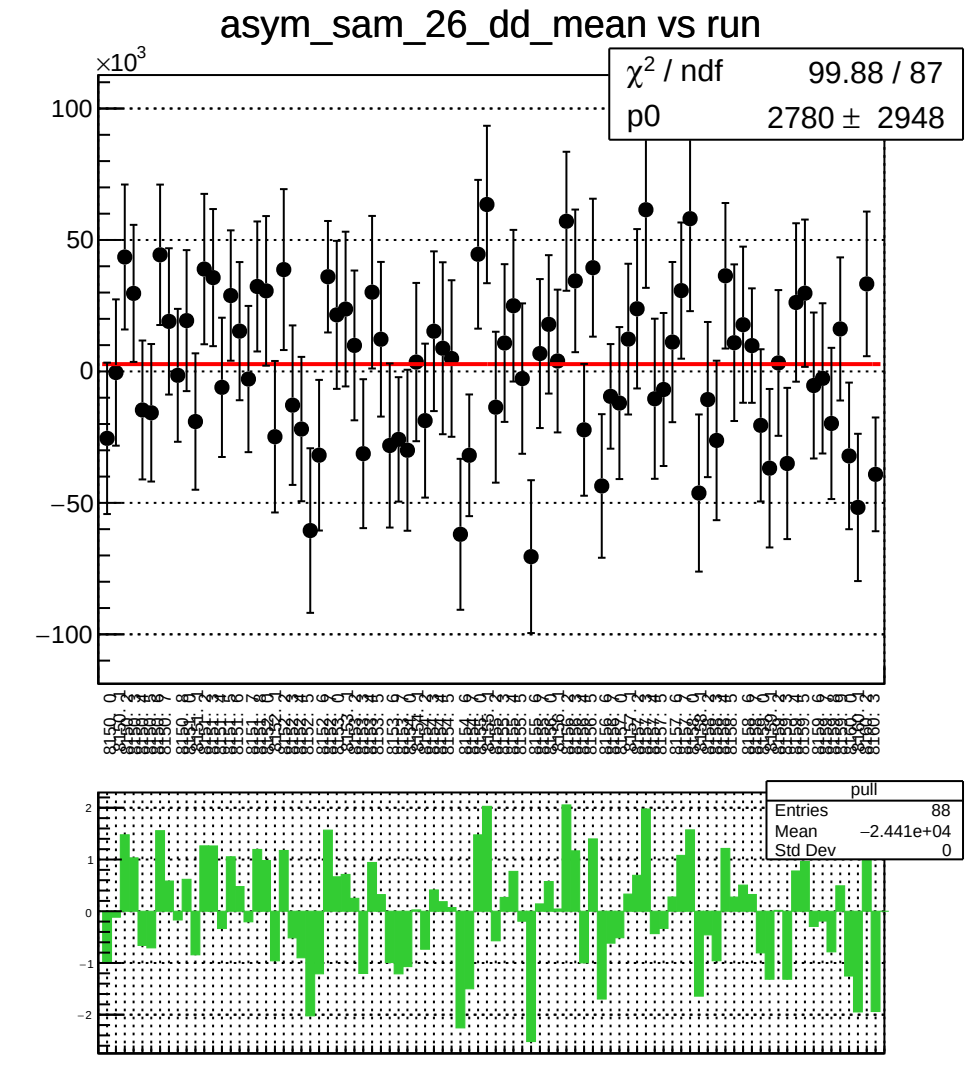

pull1D
Entries 88
Mean −0.01236
Std Dev 0.9698

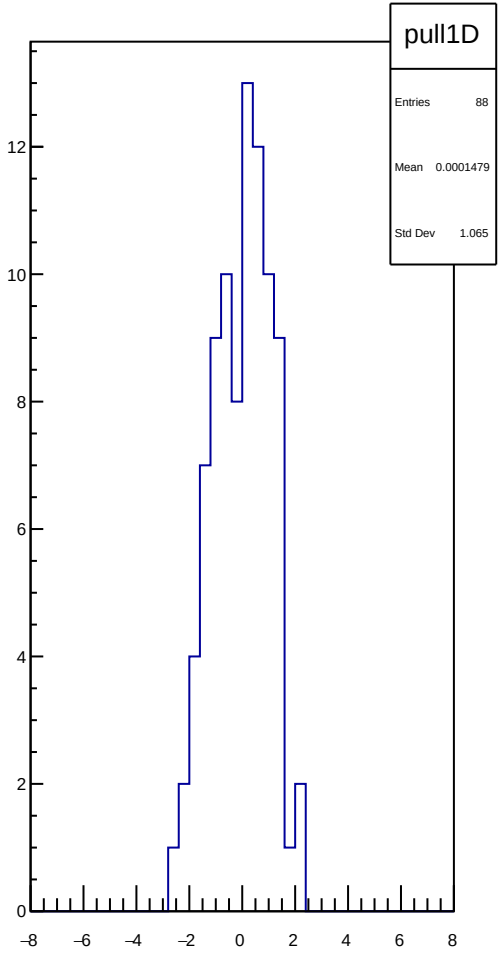

eigen_dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 2101 / 87
p0 202.3 ± 0.1563
220
215
210
205
200
195
190

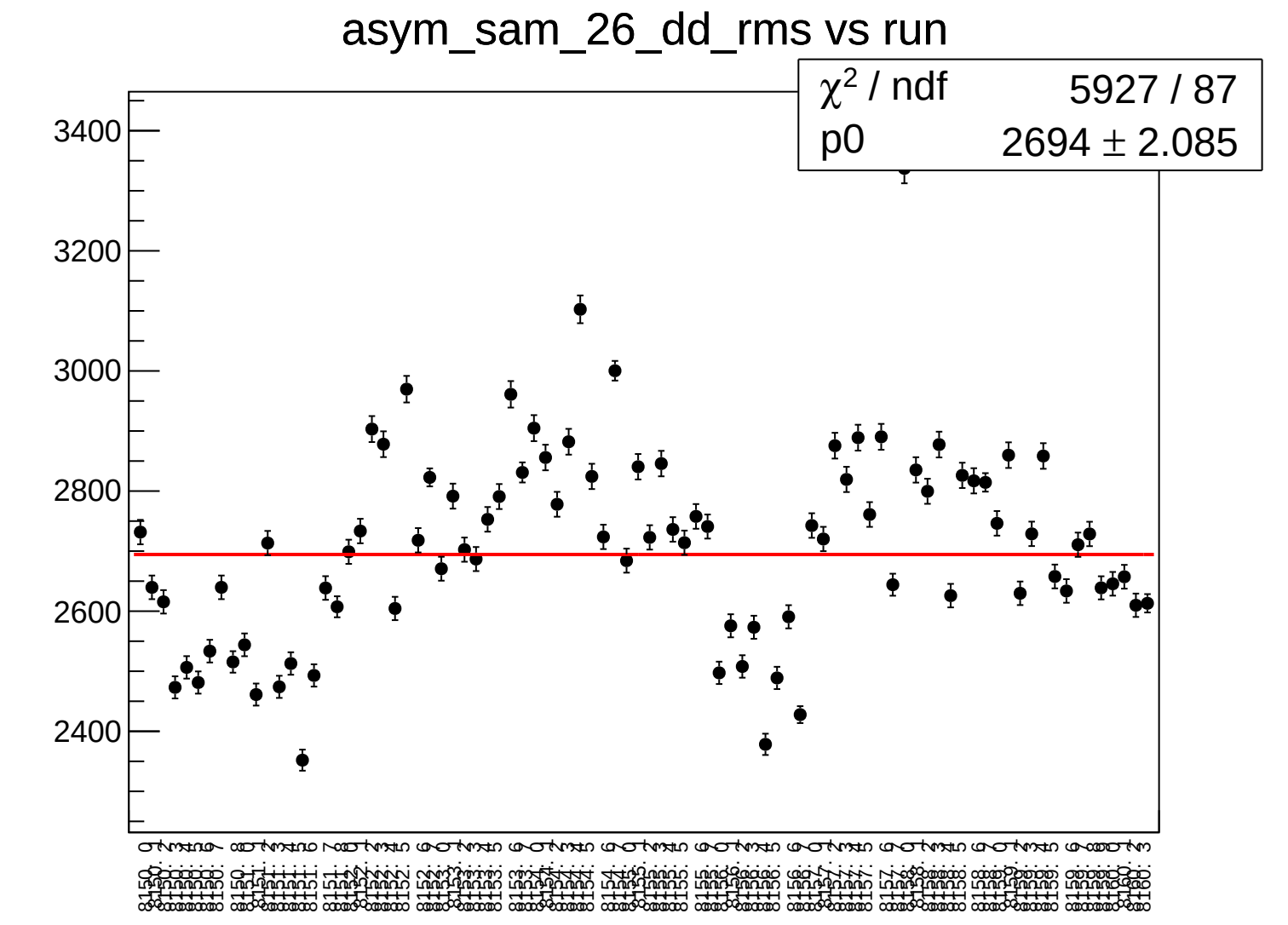

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.1 / 87
p0 −2729 ± 2989
100
50
0
−50
−100
pull
Entries 88
Mean −7364
Std Dev 0
2
1
0
−1
−2

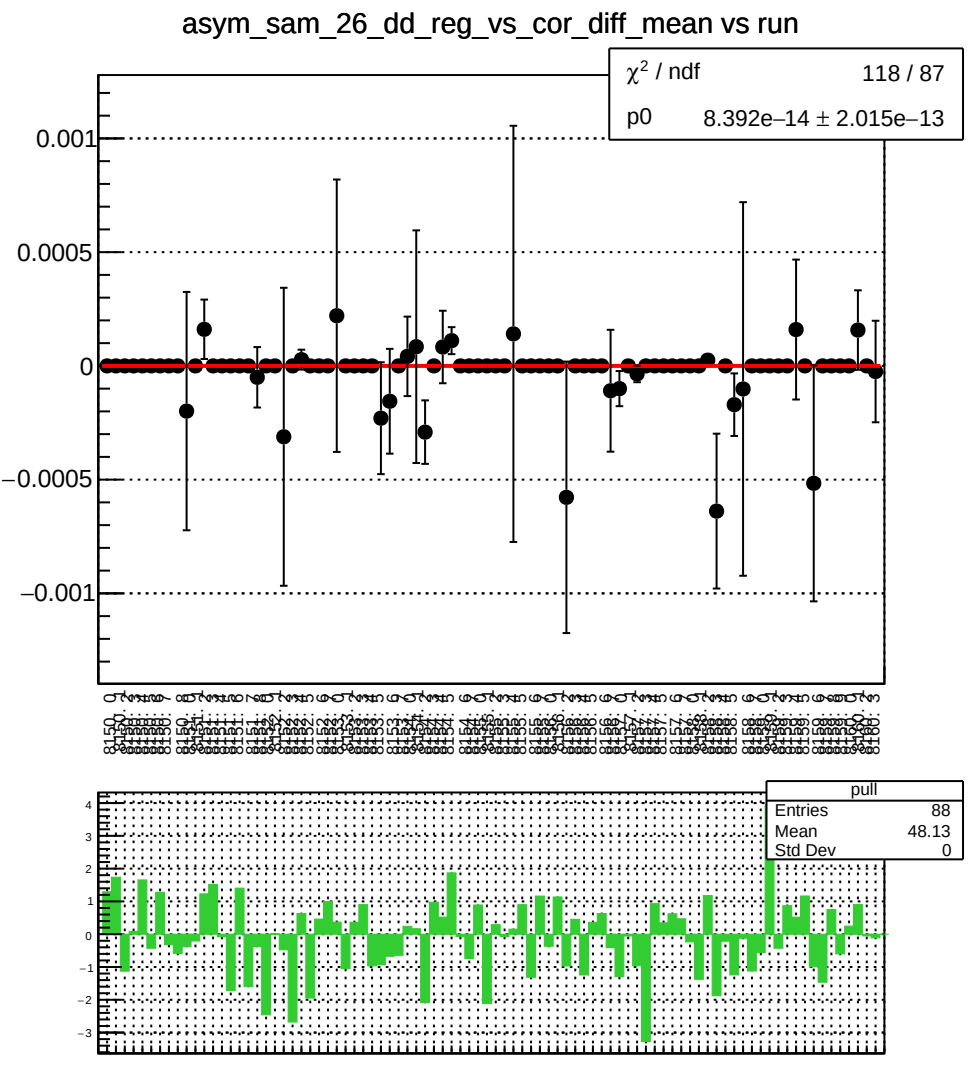

pull1D
Entries 88
Mean −0.0004733
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

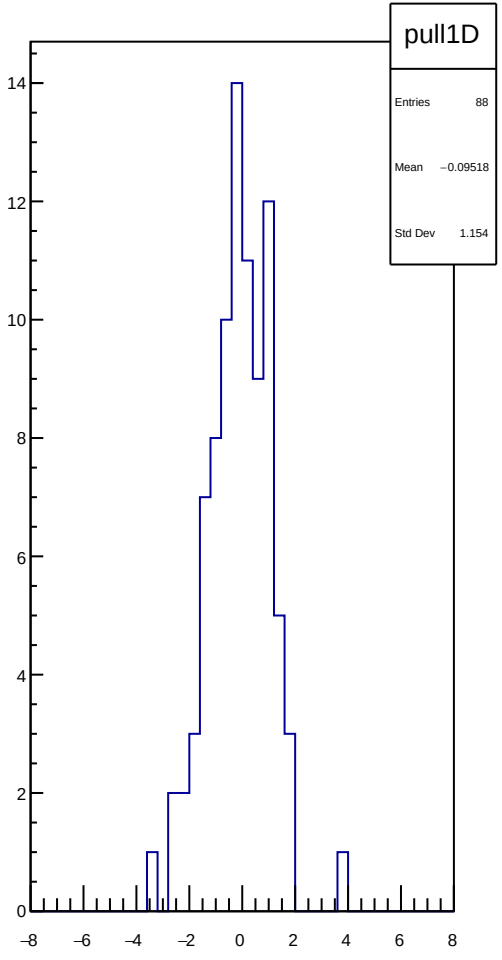

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6078 / 87
p0 2732 ± 2.114
3400
3200
3000
2800
2600
2400

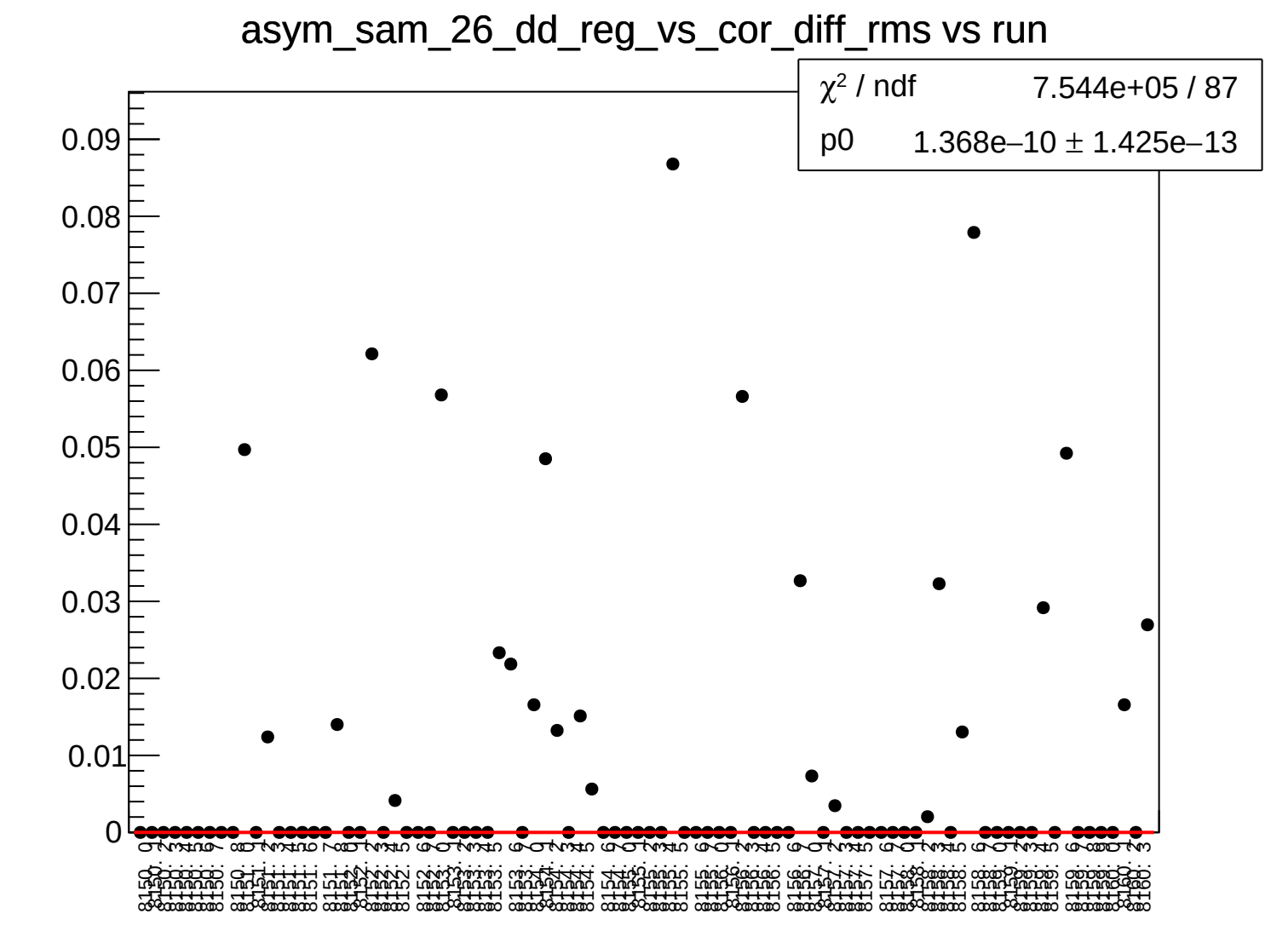

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 99.88 / 87
p0 2780 ± 2948
100
50
0
−50
−100
pull
Entries 88
Mean −2.441e+04
Std Dev 0
2
1
0
−1
−2

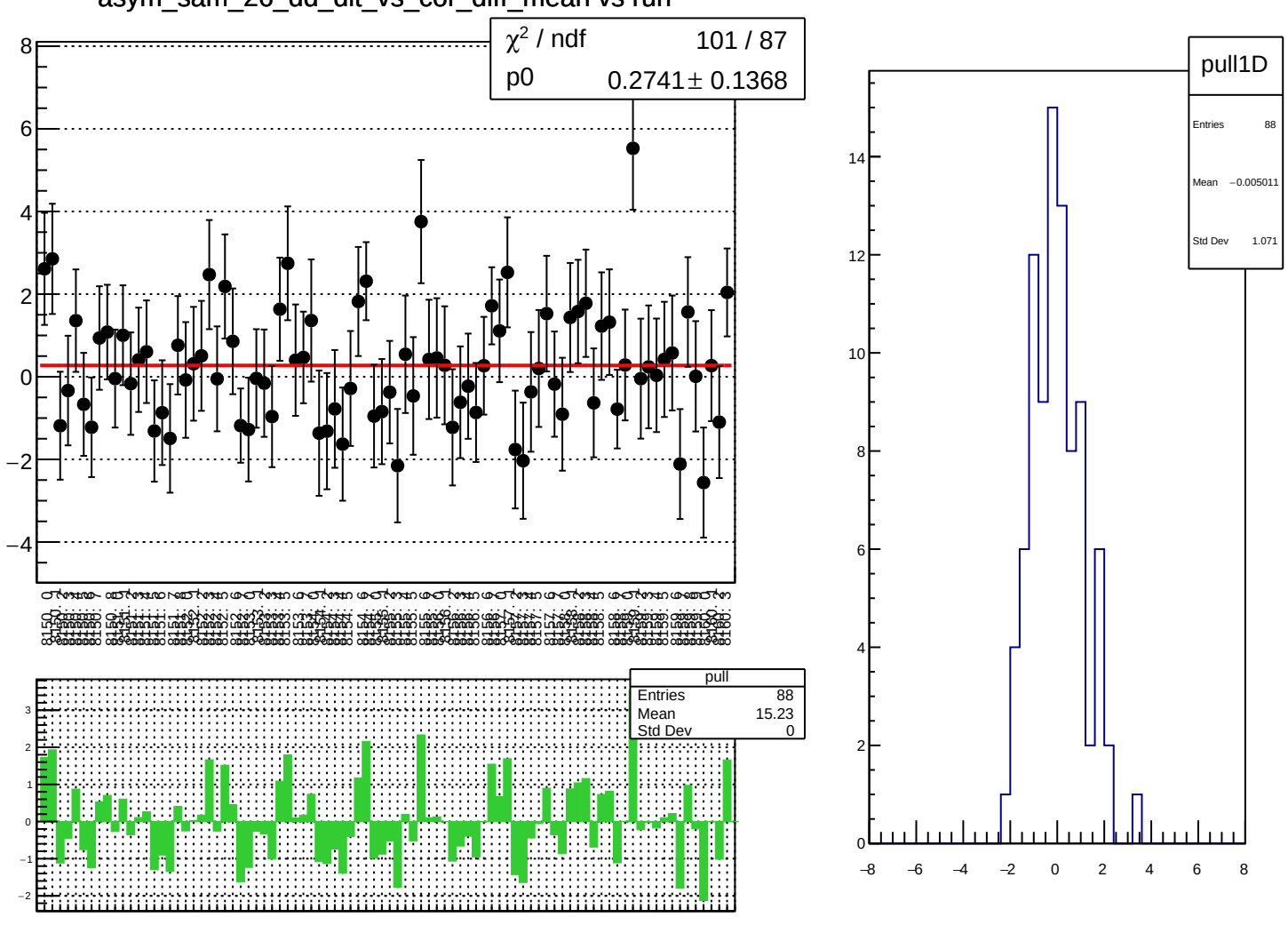

pull1D
Entries 88
Mean 0.0001479
Std Dev 1.065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

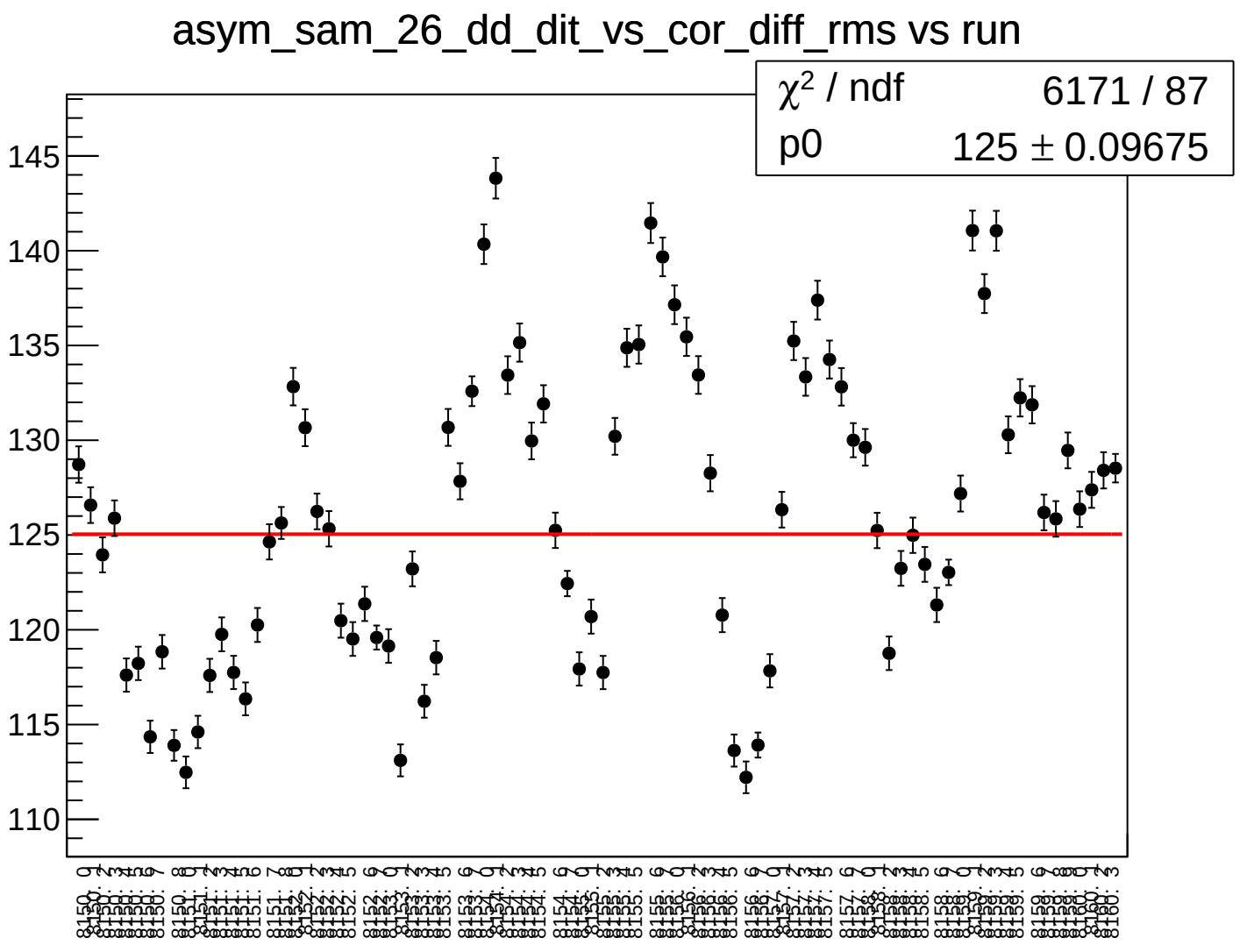

asym_sam_26_dd_rms vs run
χ² / ndf 5927 / 87
p0 2694 ± 2.085
3400
3200
3000
2800
2600
2400

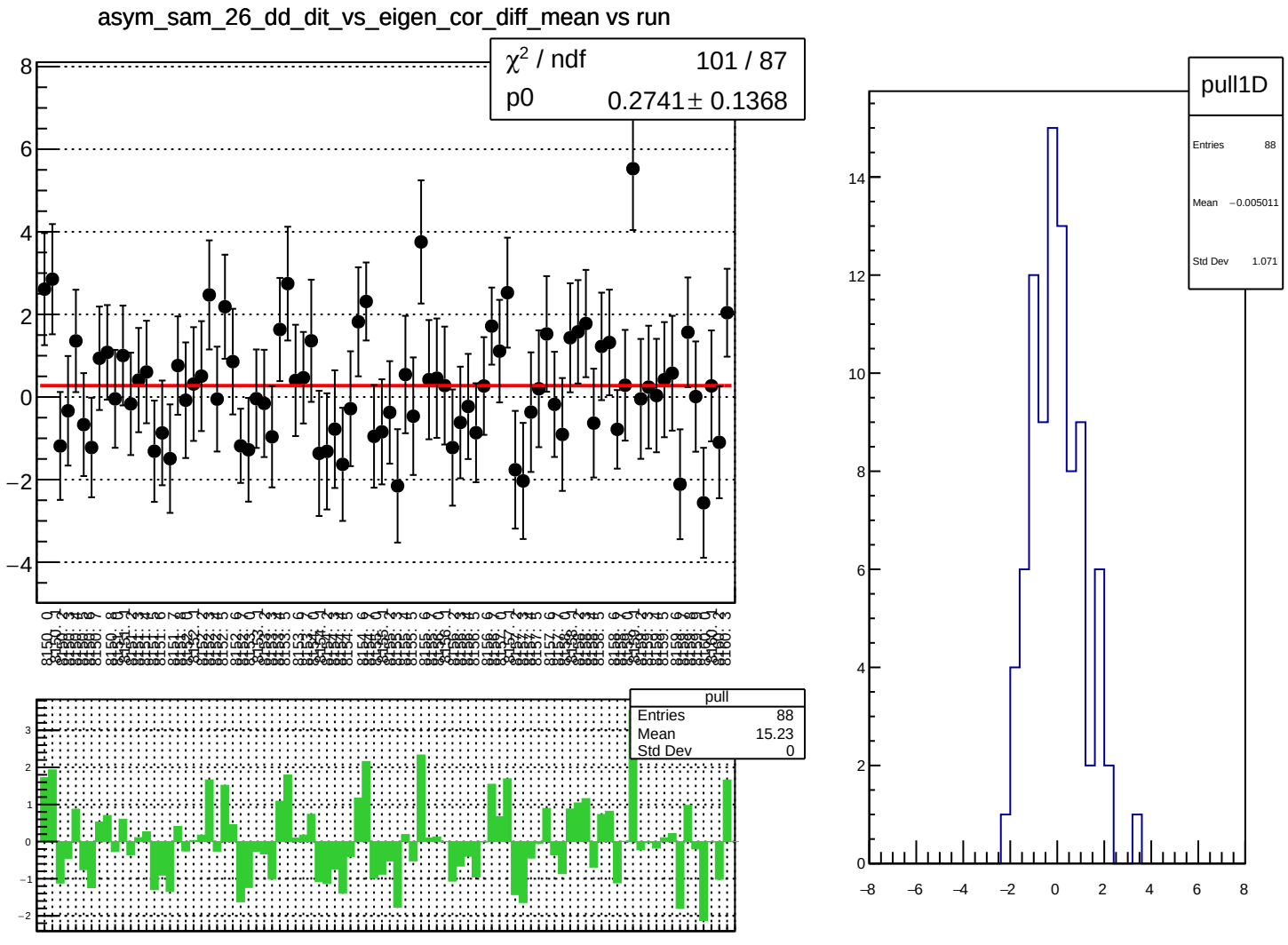

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 118 / 87
p0 8.392e−14 ± 2.015e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 48.13
Std Dev 0
4
3
2
1
0
−1
−2
−3

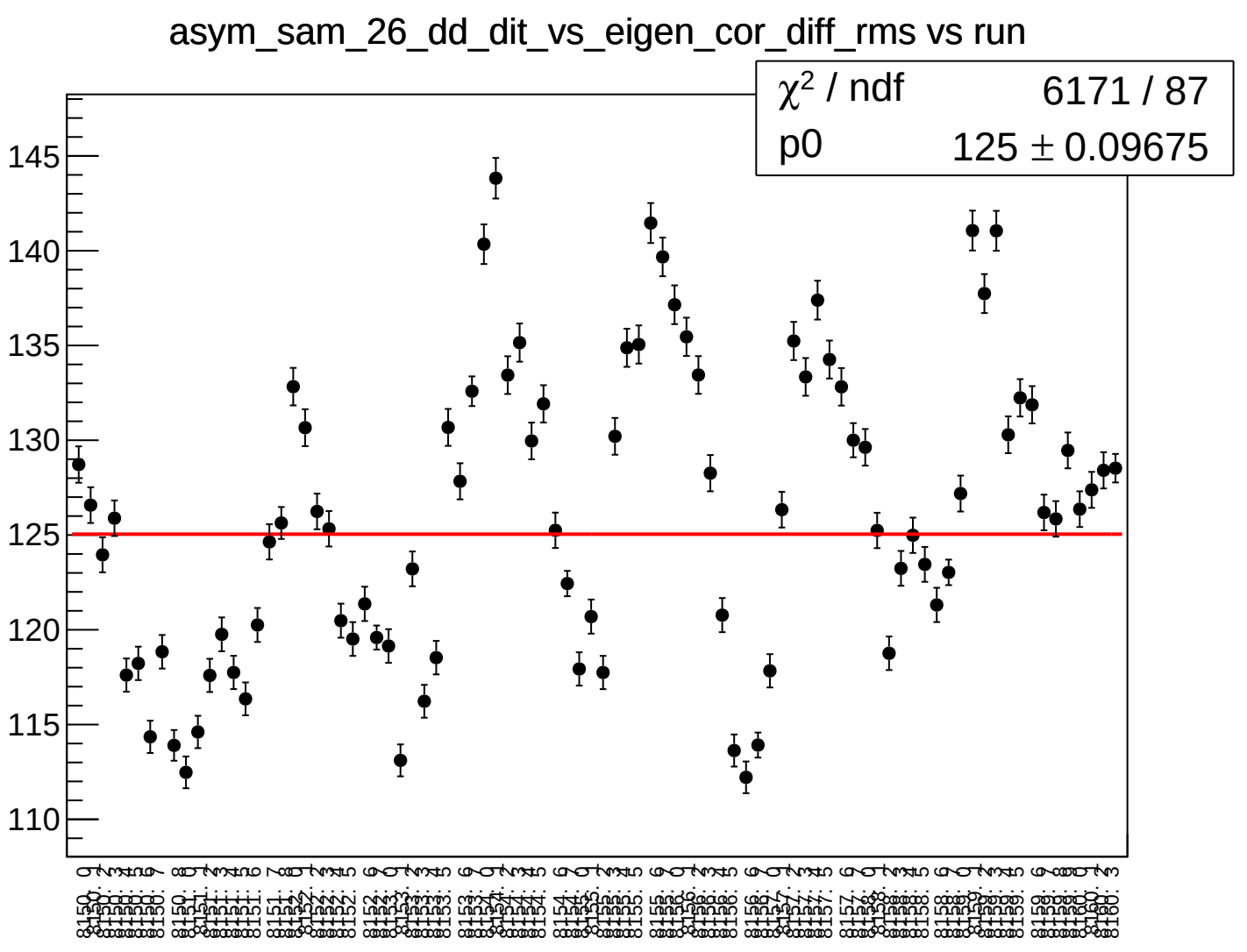

pull1D
Entries 88
Mean −0.09518
Std Dev 1.154
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

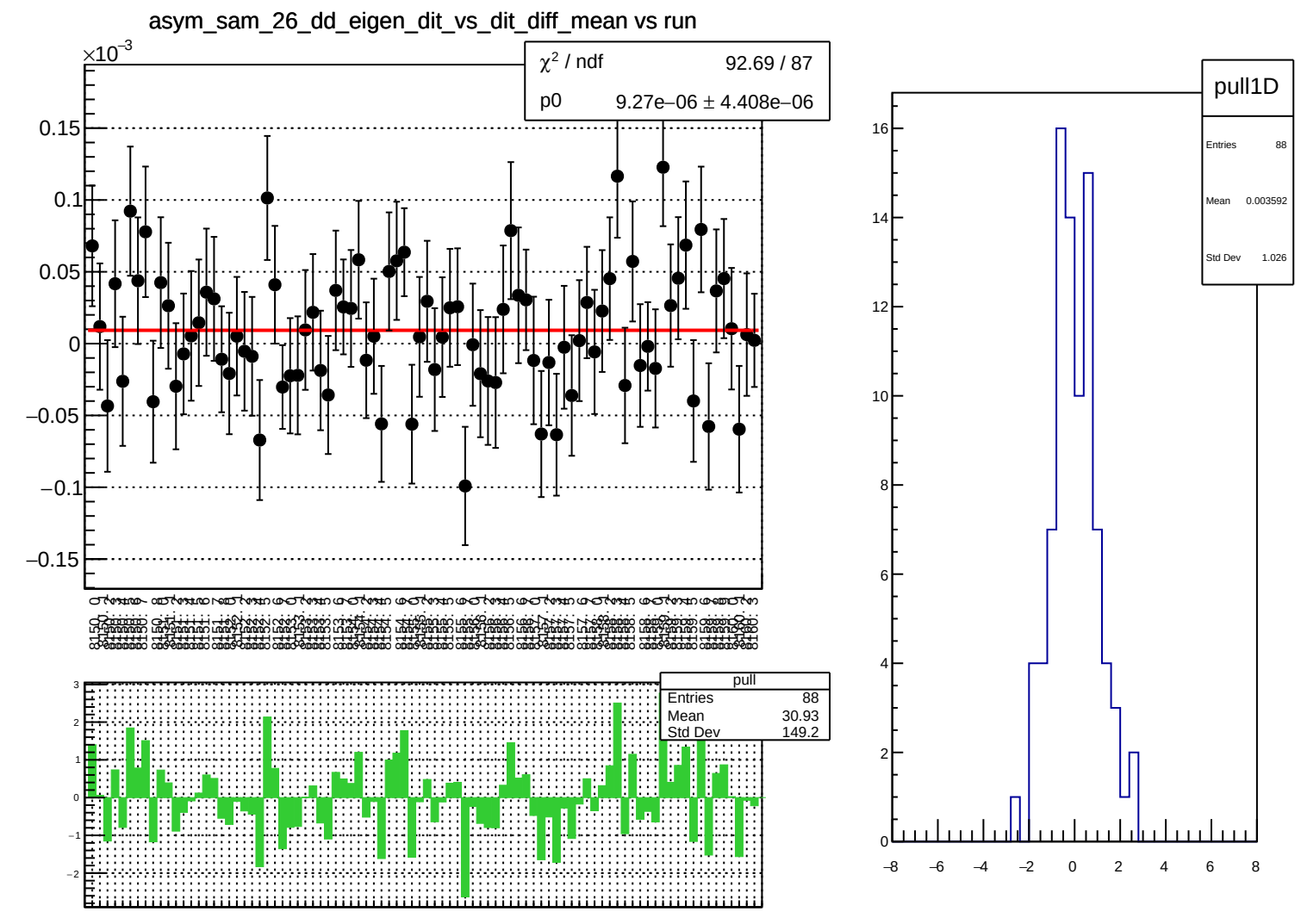

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.544e+05 / 87
p0 1.368e−10 ± 1.425e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

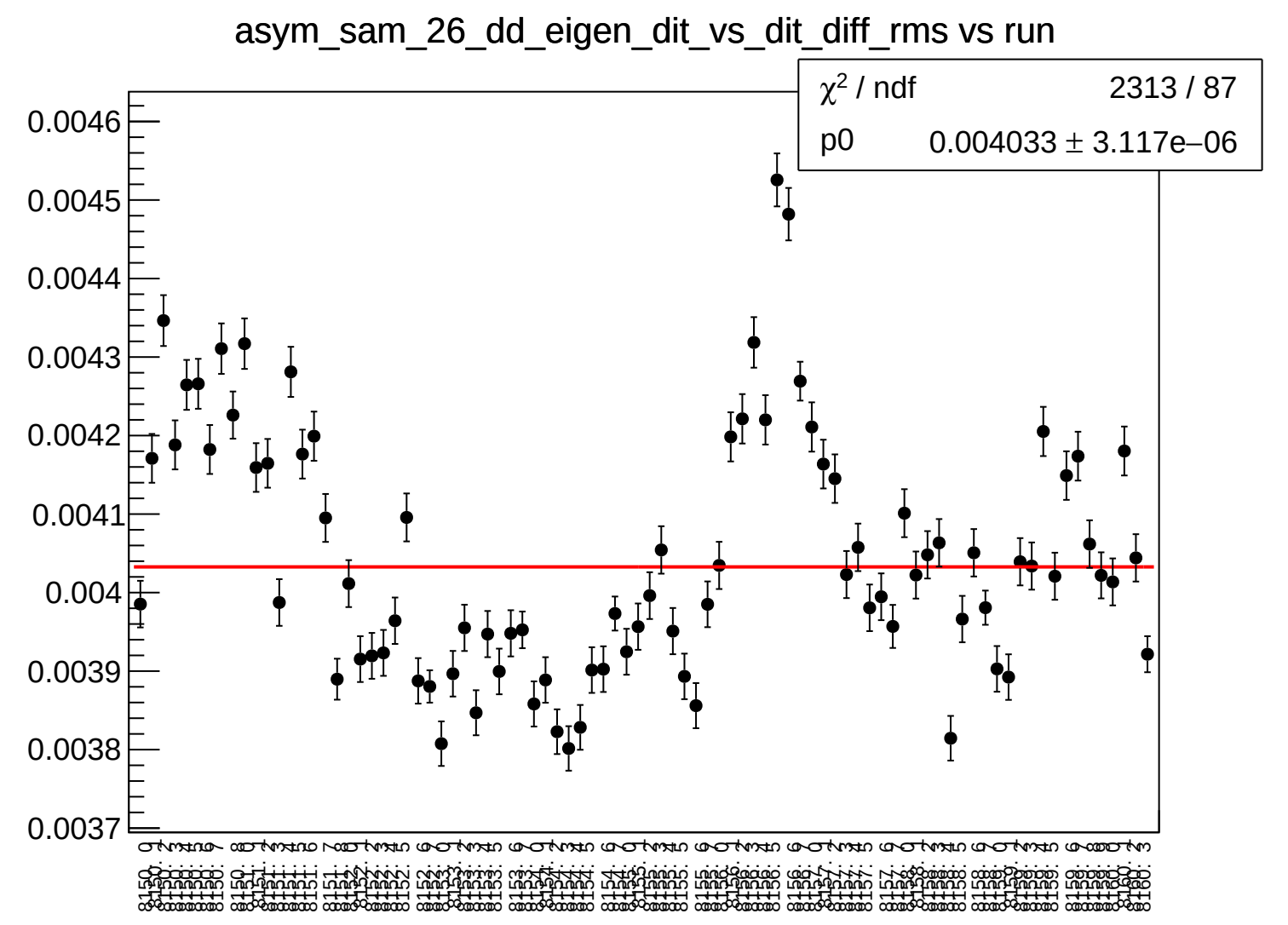

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101 / 87
p0 0.2741 ± 0.1368
pull
Entries 88
Mean 15.23
Std Dev 0
pull1D
Entries 88
Mean −0.005011
Std Dev 1.071

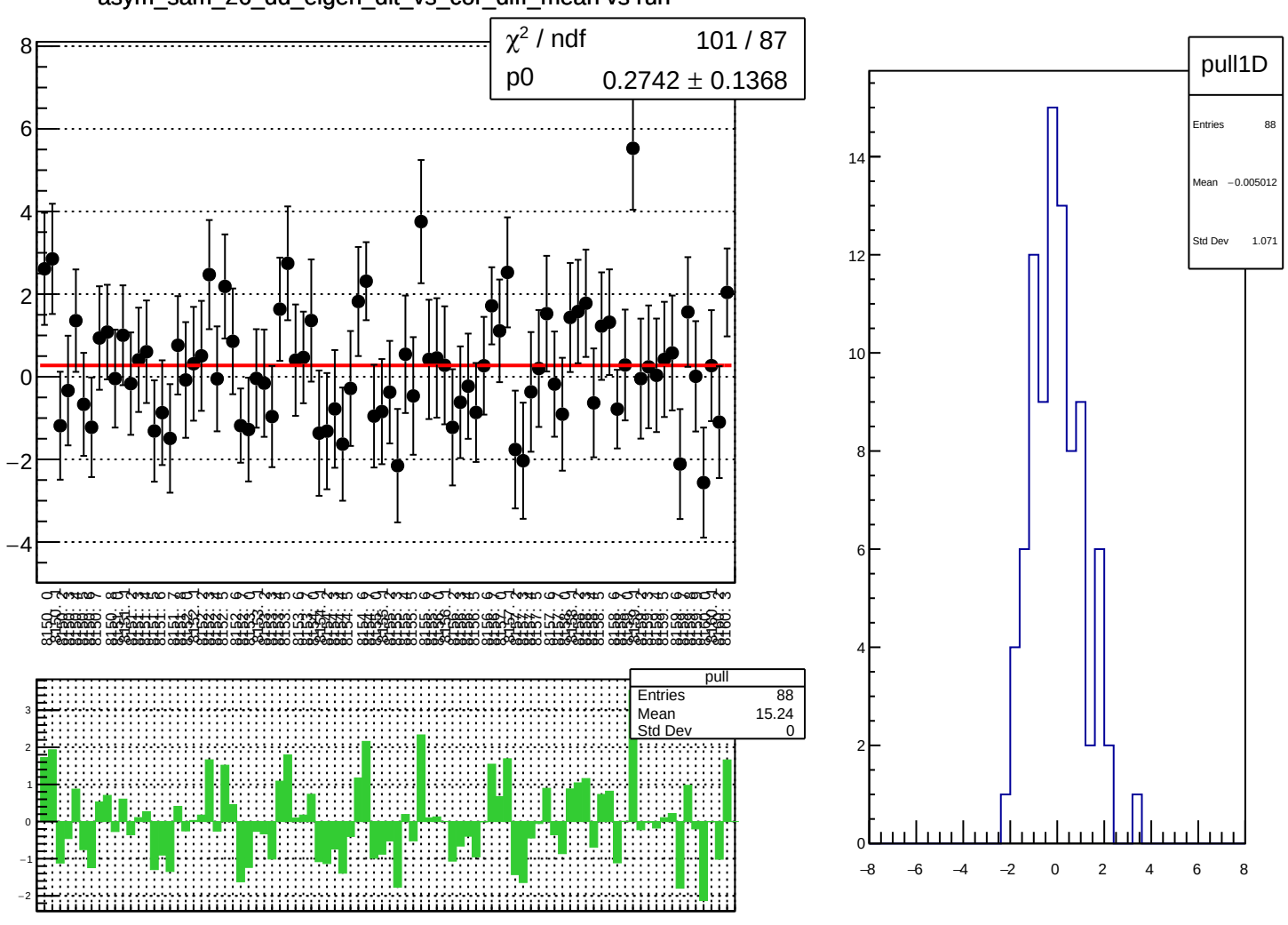

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6171 / 87
p0 125 ± 0.09675
145
140
135
130
125
120
115
110

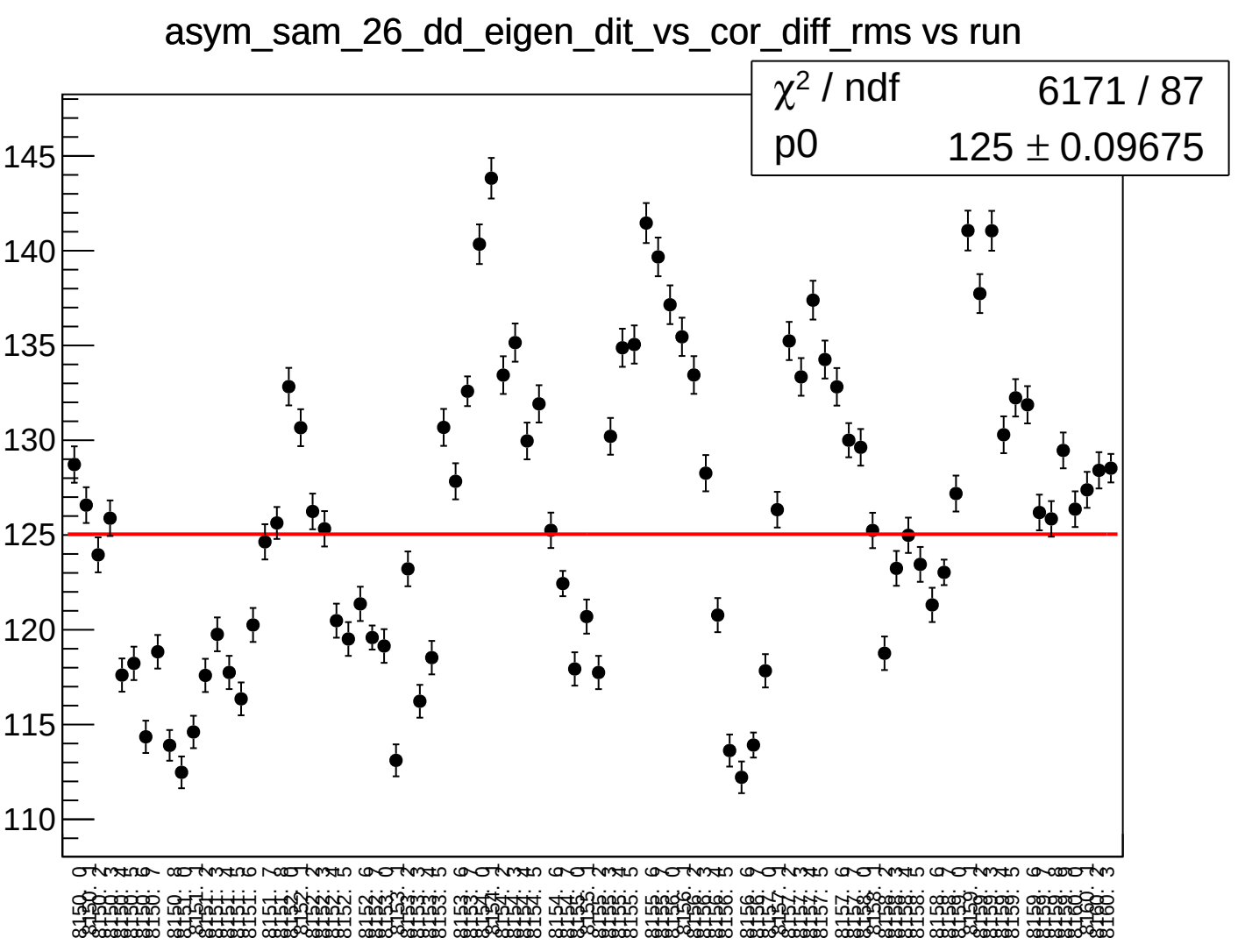

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101 / 87
p0 0.2741 ± 0.1368
pull
Entries 88
Mean 15.23
Std Dev 0
pull1D
Entries 88
Mean −0.005011
Std Dev 1.071

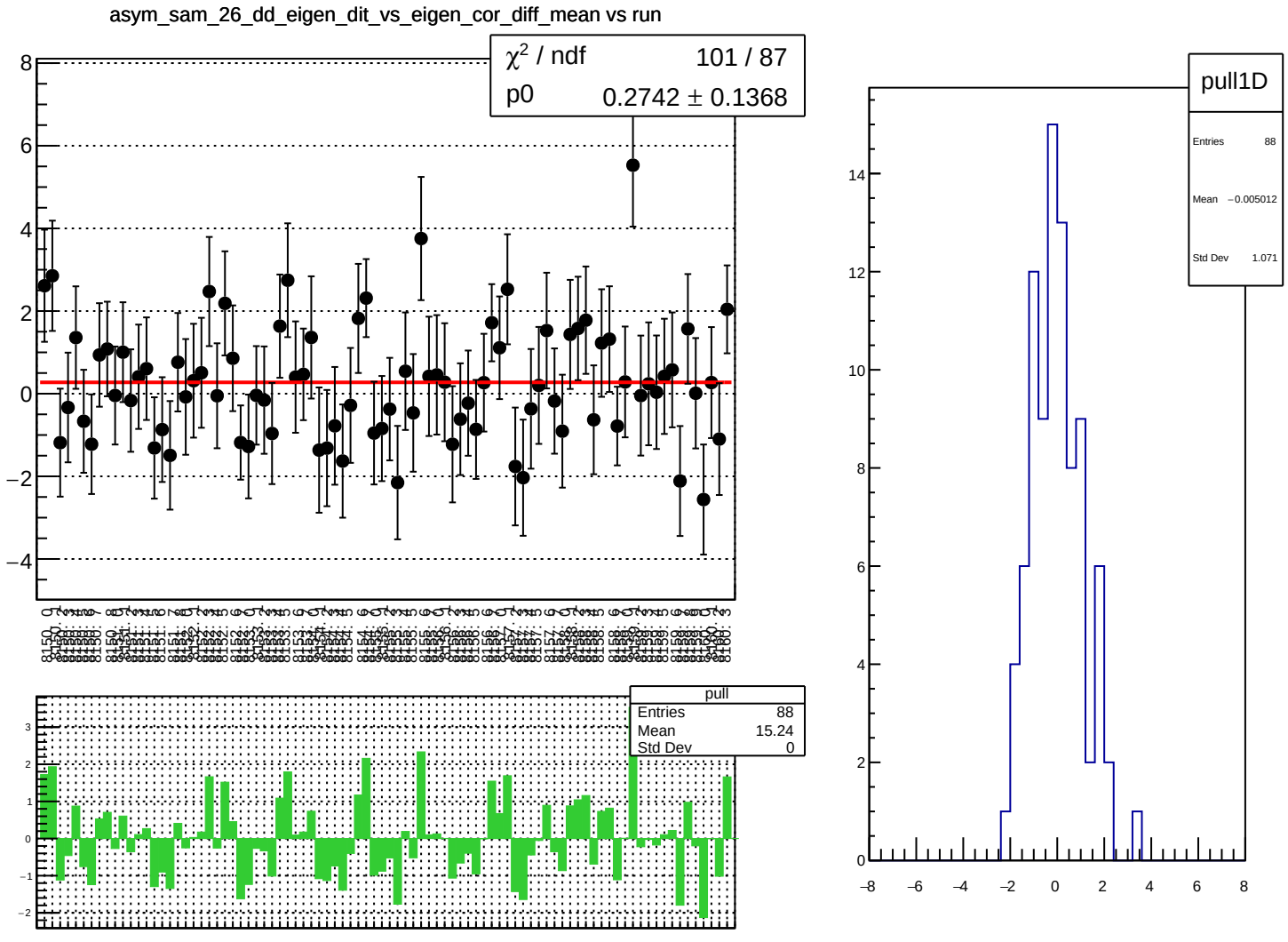

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6171 / 87
p0 125 ± 0.09675
145
140
135
130
125
120
115
110

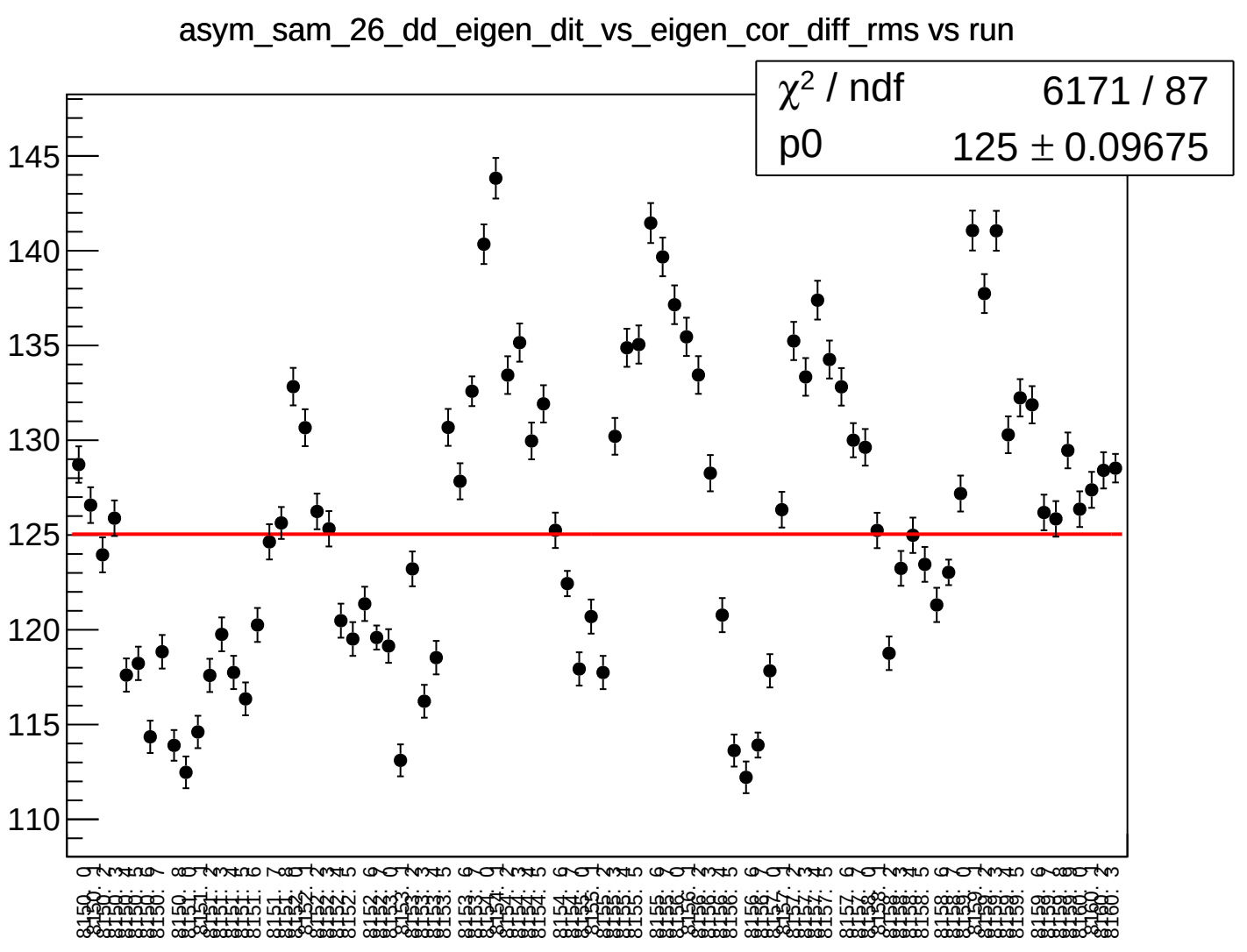

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.69 / 87
p0 9.27e−06 ± 4.408e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 30.93
Std Dev 149.2
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.003592
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

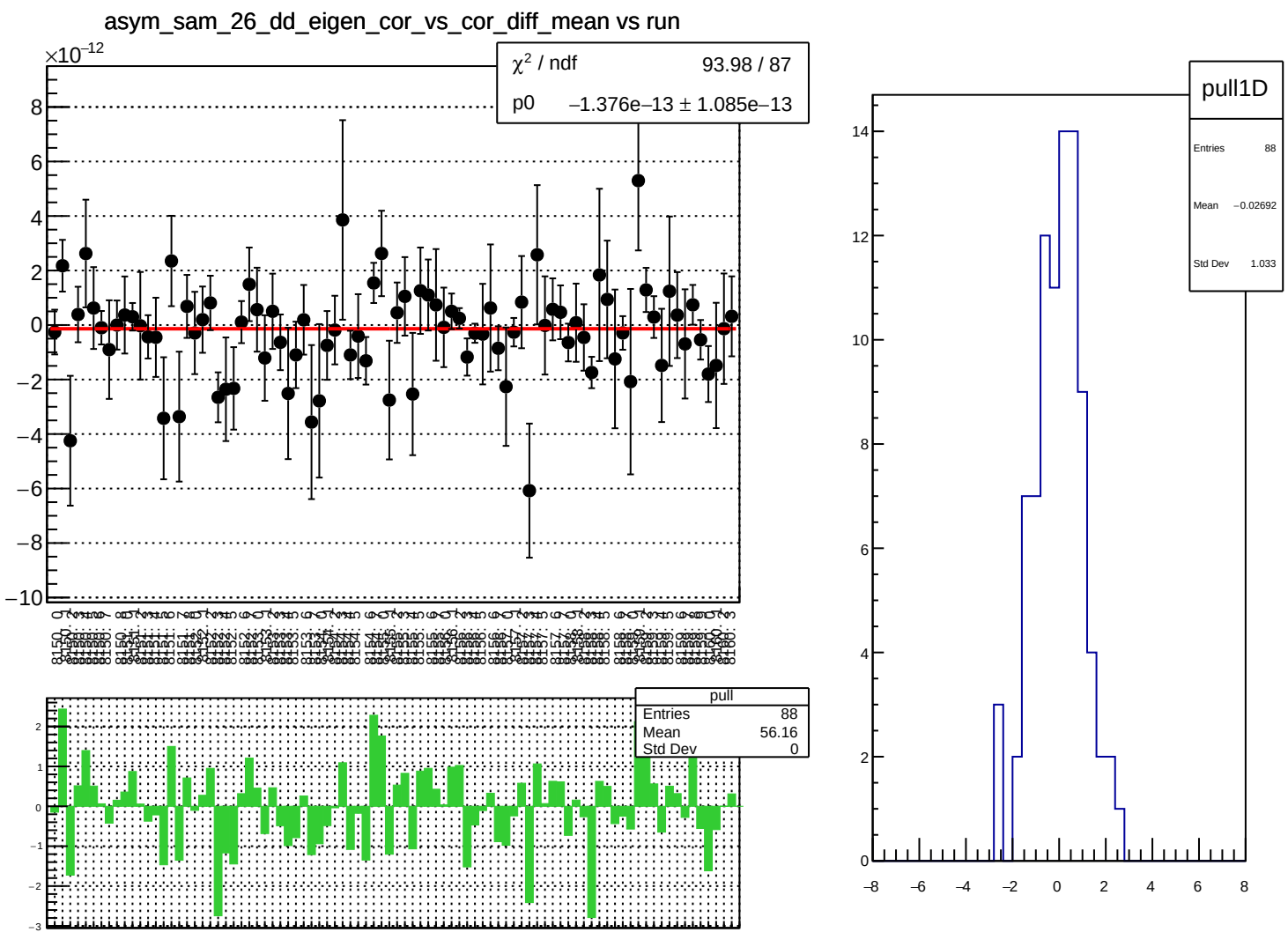

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2313 / 87
p0 0.004033 ± 3.117e−06
0.0046
0.0045
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
0.0037

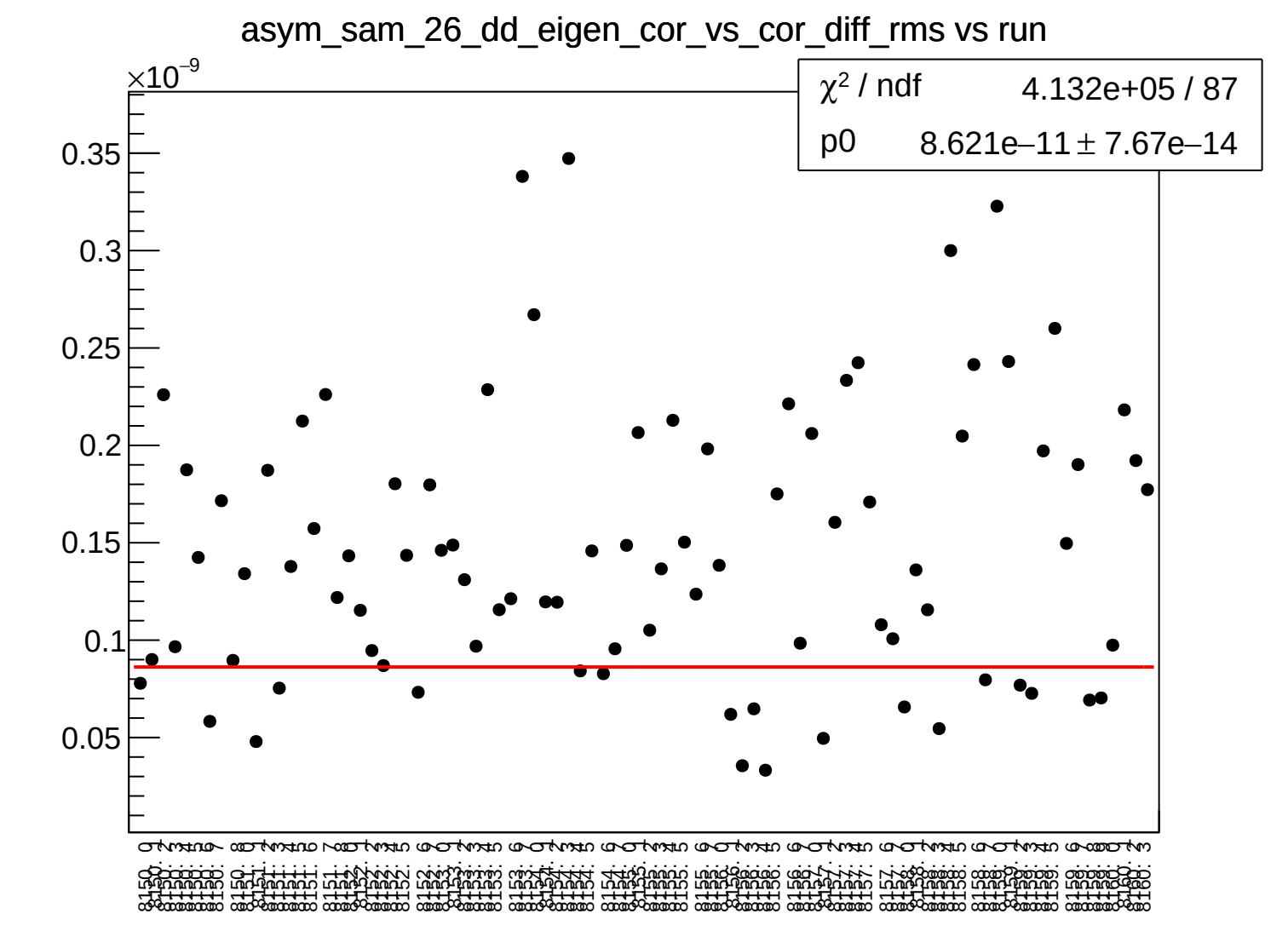

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101 / 87
p0 0.2742 ± 0.1368
pull
Entries 88
Mean 15.24
Std Dev 0
pull1D
Entries 88
Mean −0.005012
Std Dev 1.071

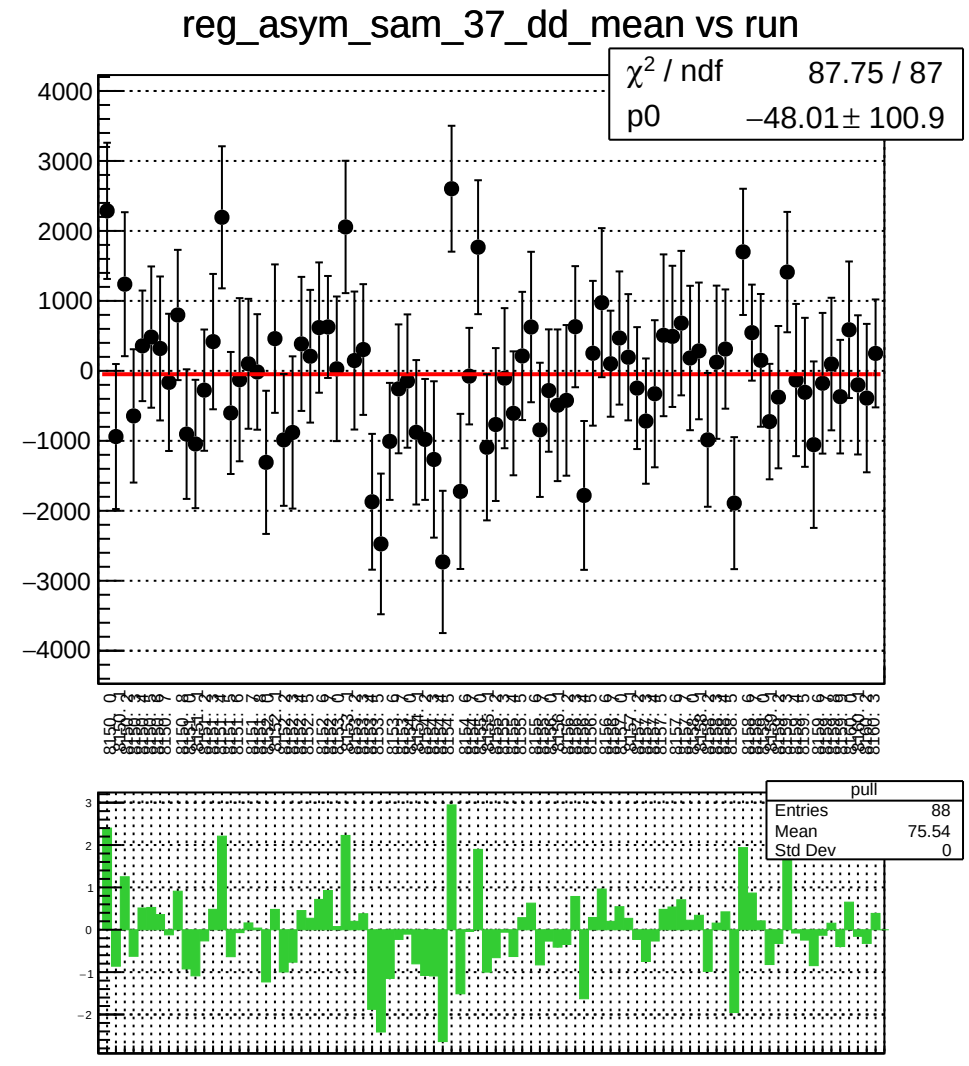

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6171 / 87
p0 125 ± 0.09675
145
140
135
130
125
120
115
110

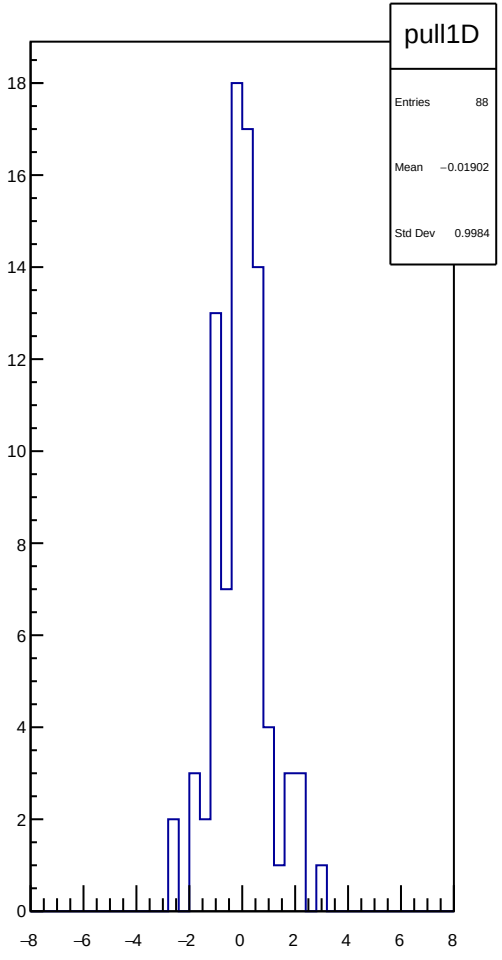

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101 / 87
p0 0.2742 ± 0.1368
pull
Entries 88
Mean 15.24
Std Dev 0
pull1D
Entries 88
Mean −0.005012
Std Dev 1.071

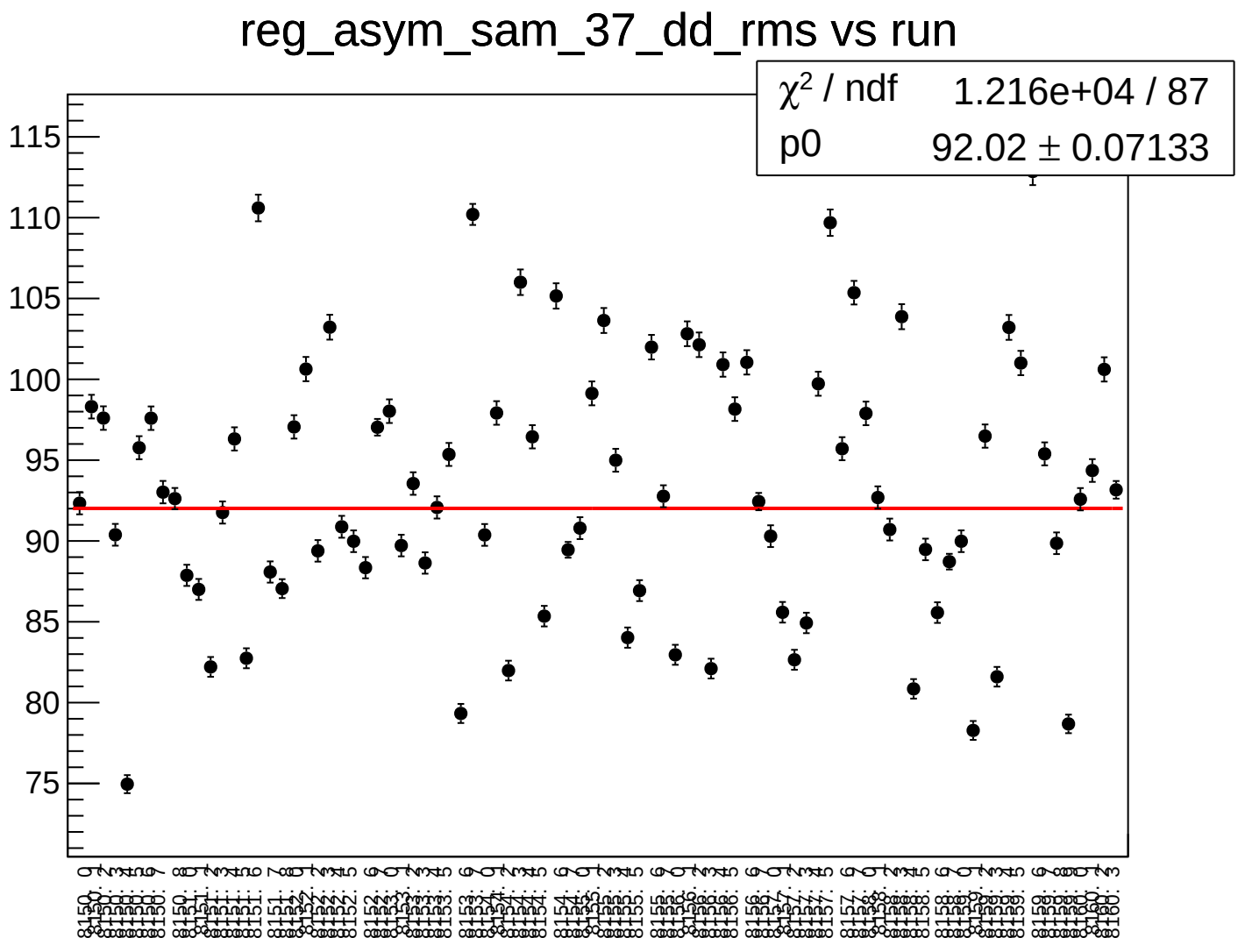

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6171 / 87
p0 125 ± 0.09675
145
140
135
130
125
120
115
110

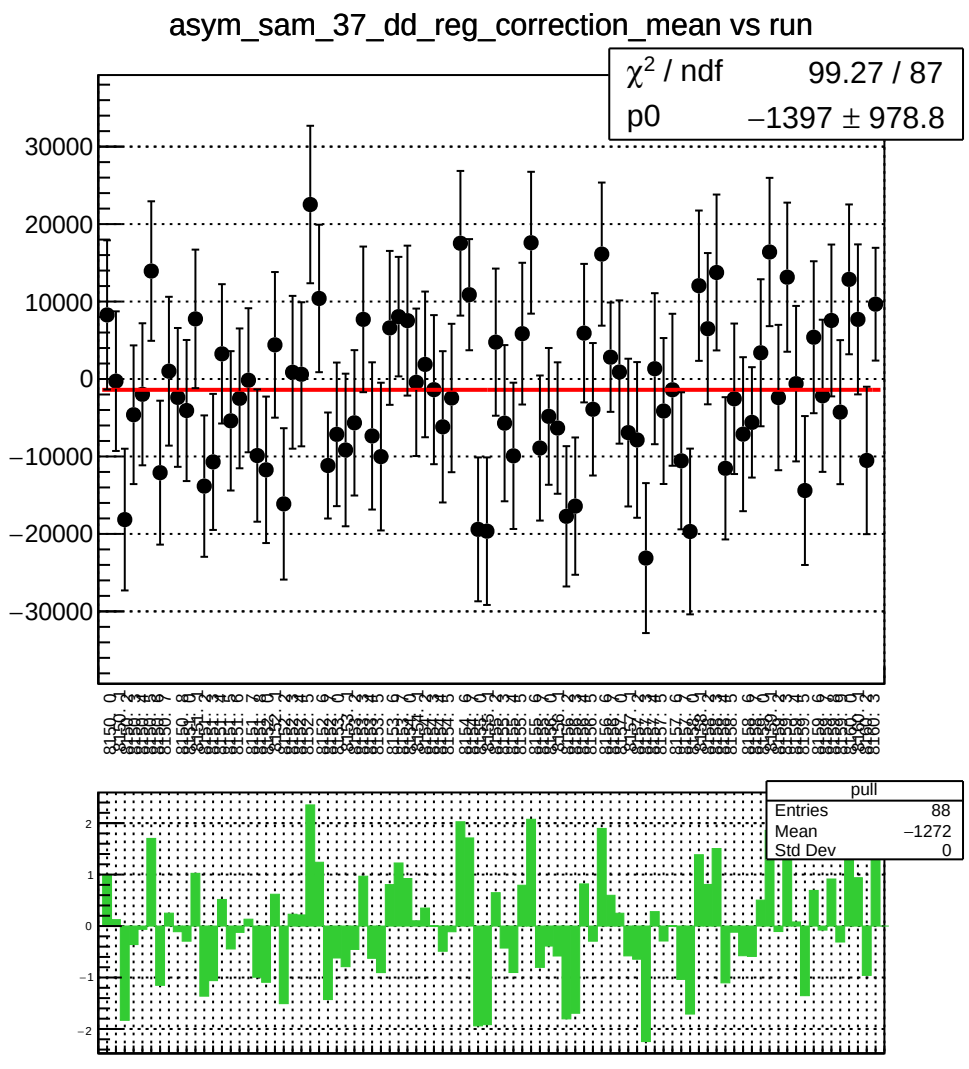

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.98 / 87
p0 −1.376e−13 ± 1.085e−13
pull
Entries 88
Mean 56.16
Std Dev 0
pull1D
Entries 88
Mean −0.02692
Std Dev 1.033

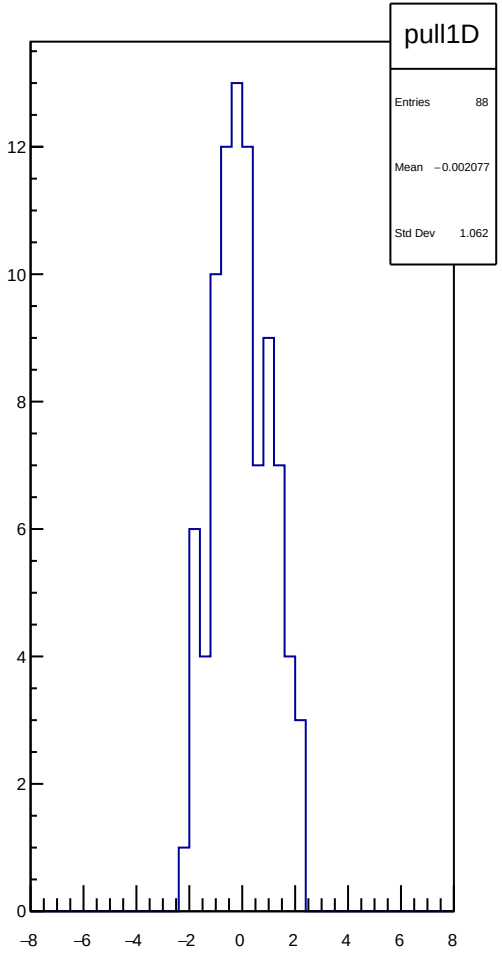

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.132e+05 / 87
p0 8.621e−11 ± 7.67e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

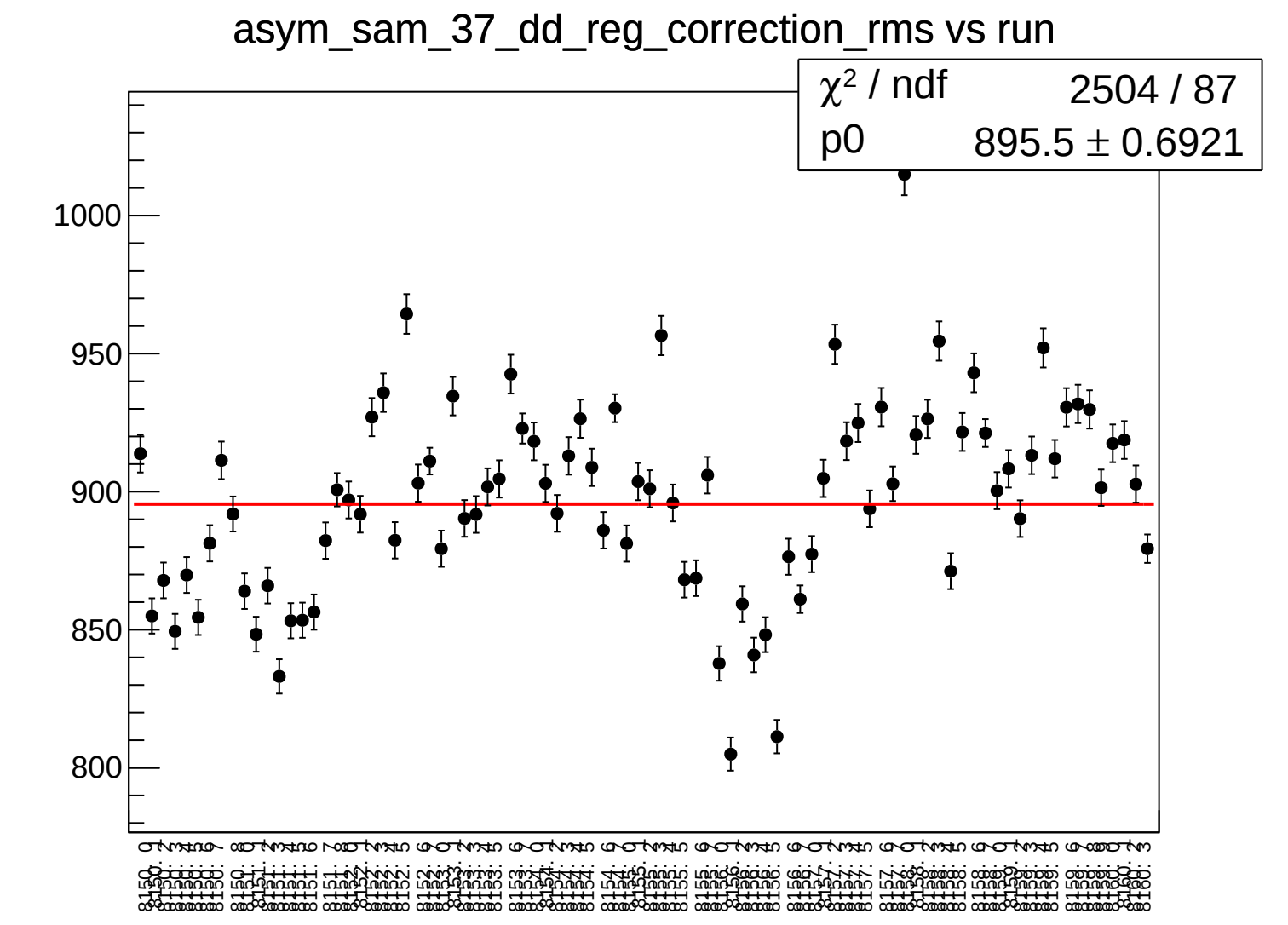

reg_asym_sam_37_dd_mean vs run
χ² / ndf 87.75 / 87
p0 −48.01 ± 100.9
pull
Entries 88
Mean 75.54
Std Dev 0

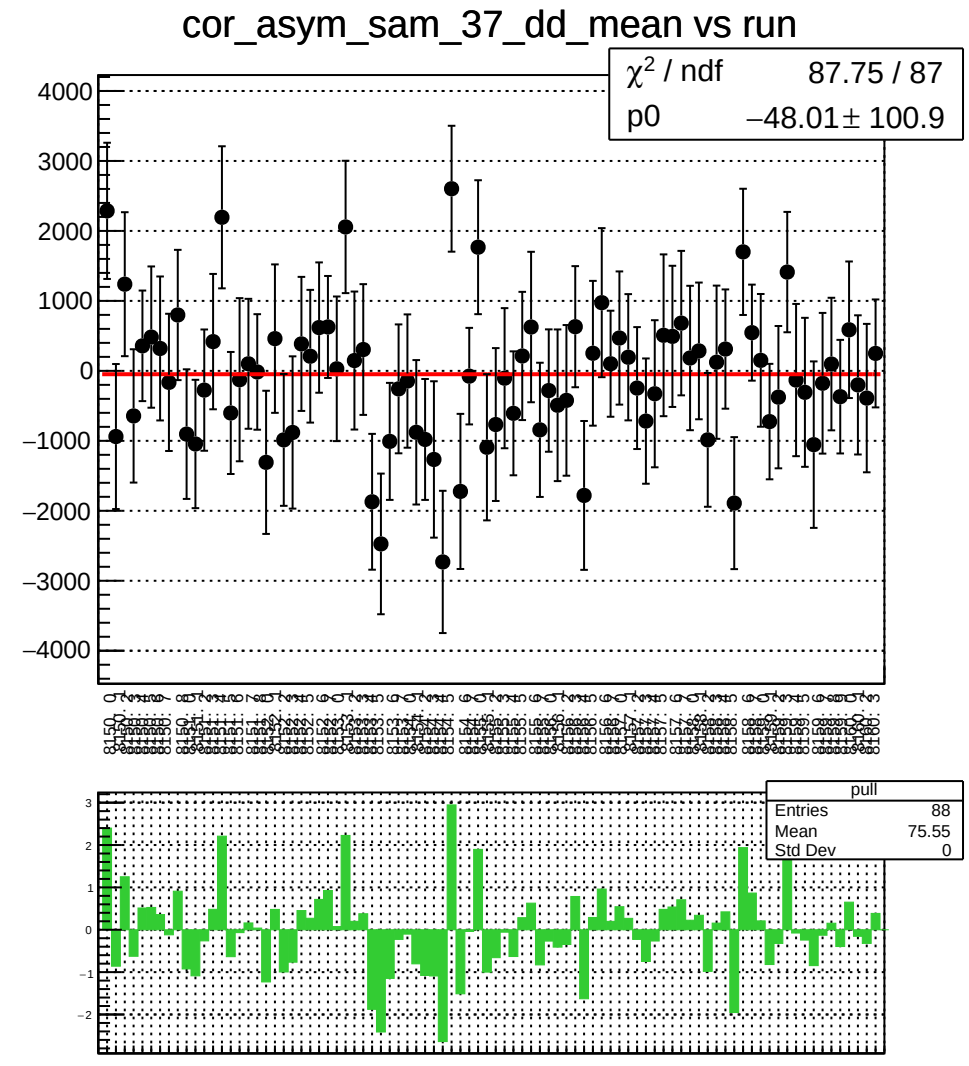

pull1D
Entries 88
Mean −0.01902
Std Dev 0.9984

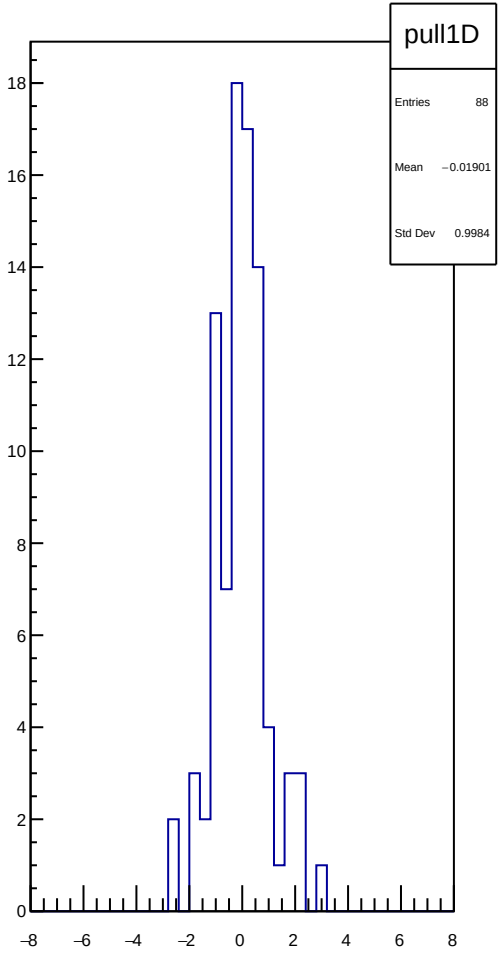

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 1.216e+04 / 87
p0 92.02 ± 0.07133
115
110
105
100
95
90
85
80
75

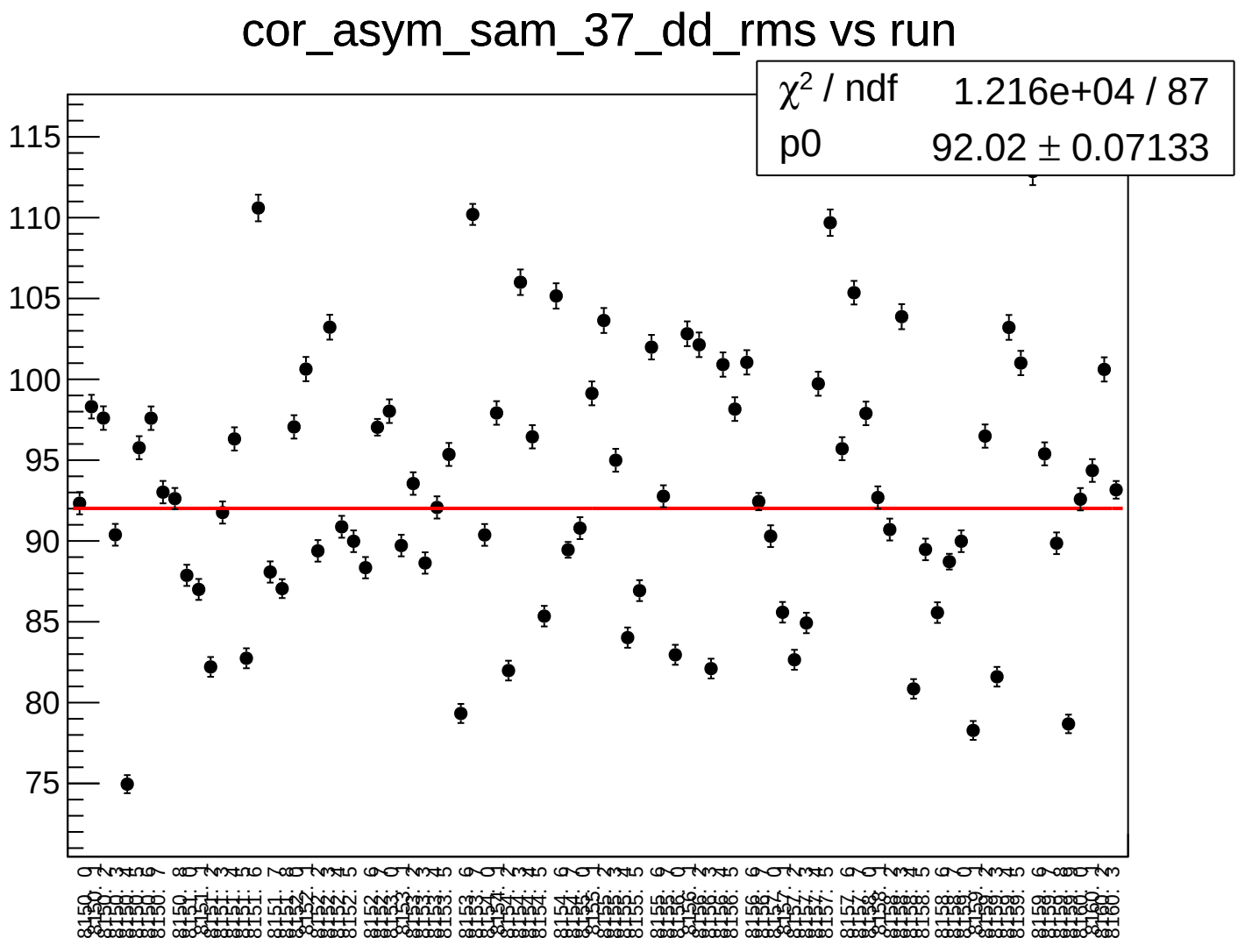

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 99.27 / 87
p0 −1397 ± 978.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1272
Std Dev 0
2
1
0
−1
−2

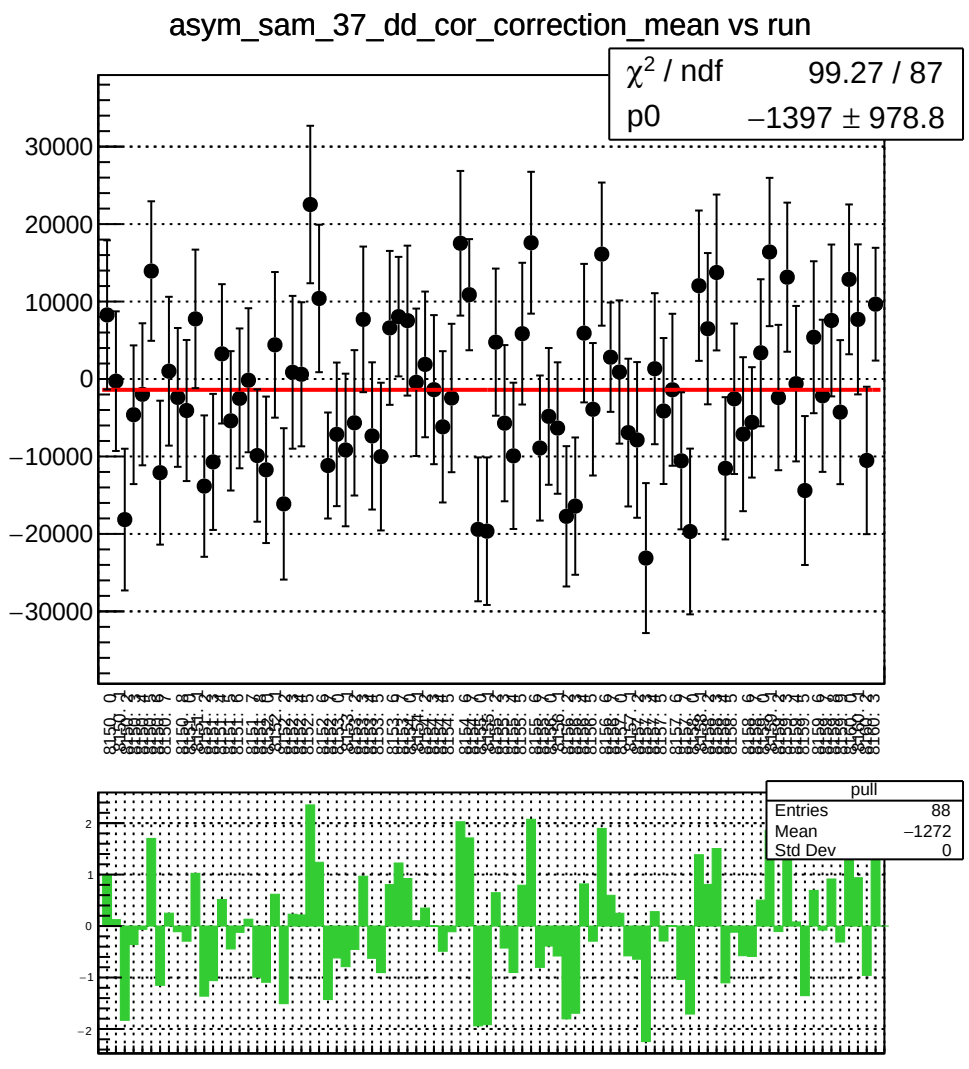

pull1D
Entries 88
Mean −0.002077
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

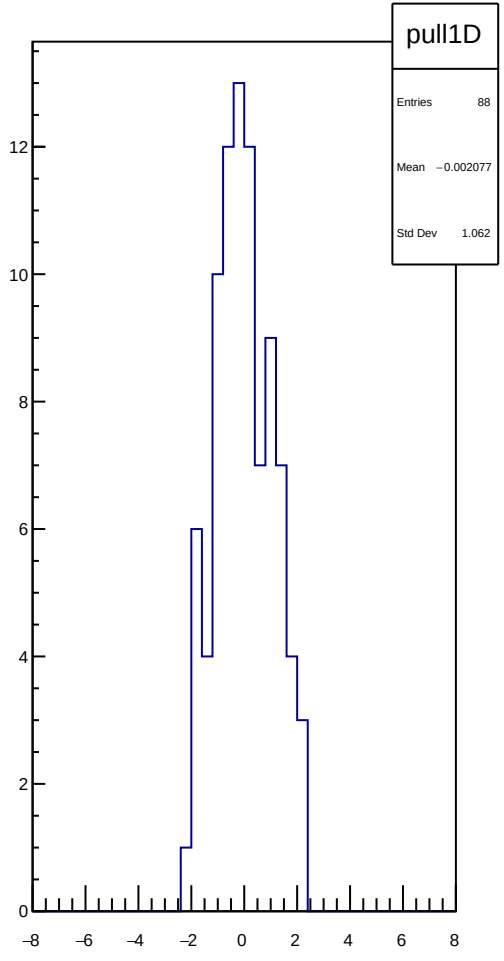

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 2504 / 87
p0 895.5 ± 0.6921
1000
950
900
850
800

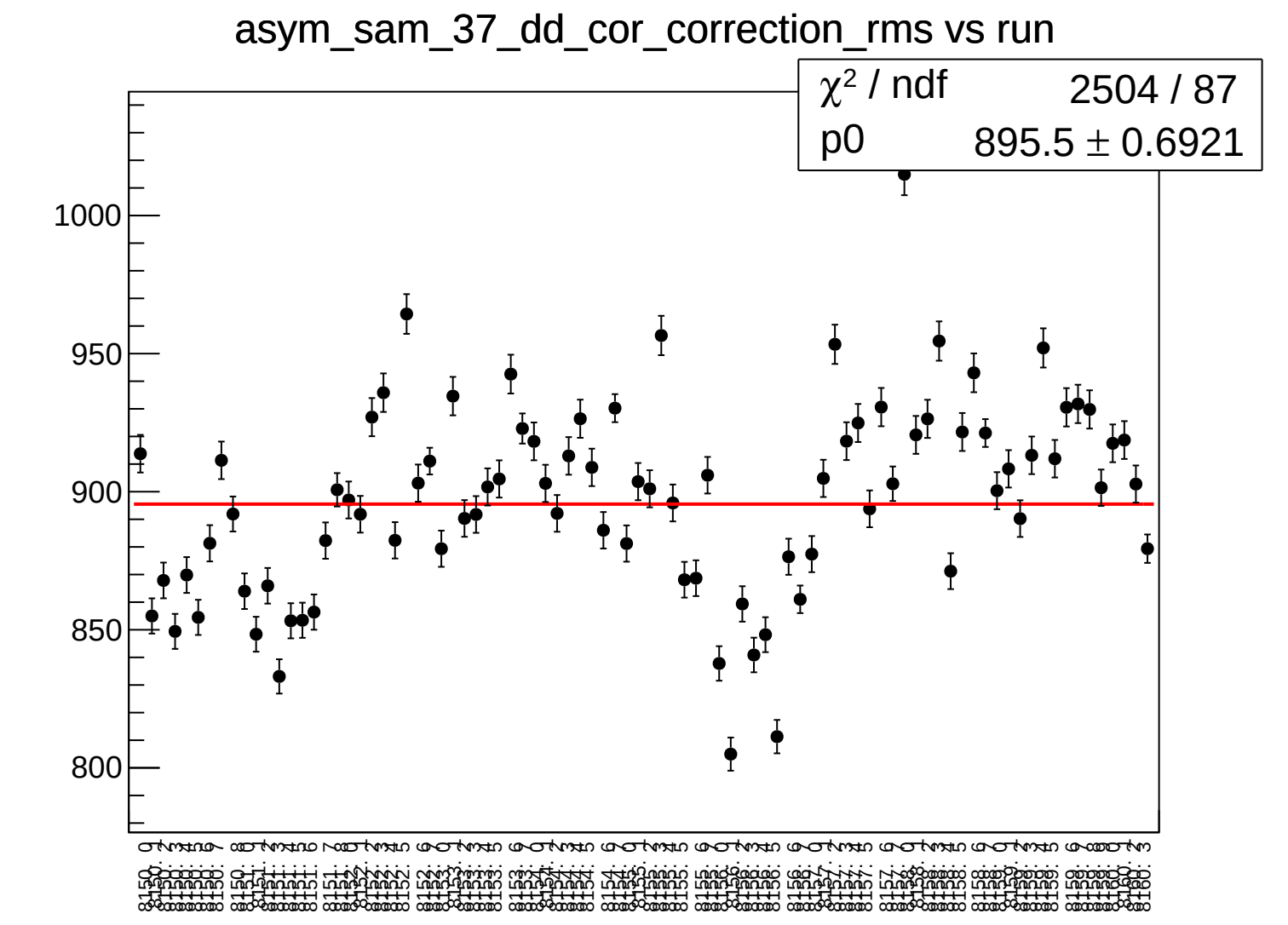

cor_asym_sam_37_dd_mean vs run
χ² / ndf 87.75 / 87
p0 −48.01 ± 100.9
pull
Entries 88
Mean 75.55
Std Dev 0

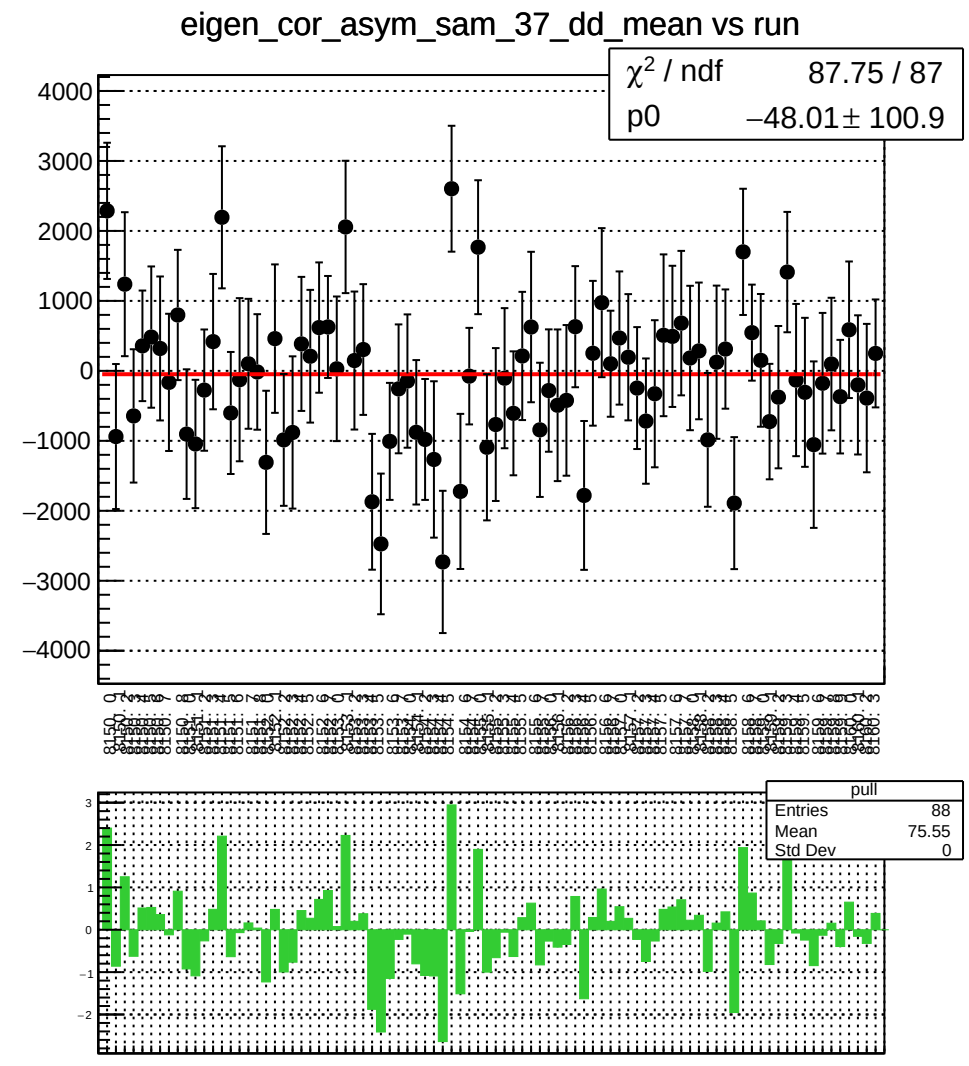

pull1D
Entries 88
Mean −0.01901
Std Dev 0.9984

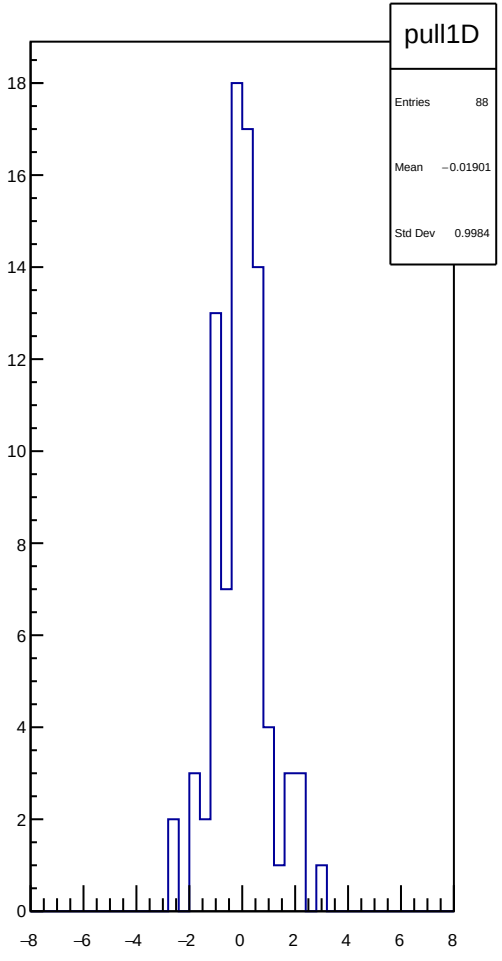

cor_asym_sam_37_dd_rms vs run
χ^2 / ndf 1.216e+04 / 87
p0 92.02 ± 0.07133
115
110
105
100
95
90
85
80
75

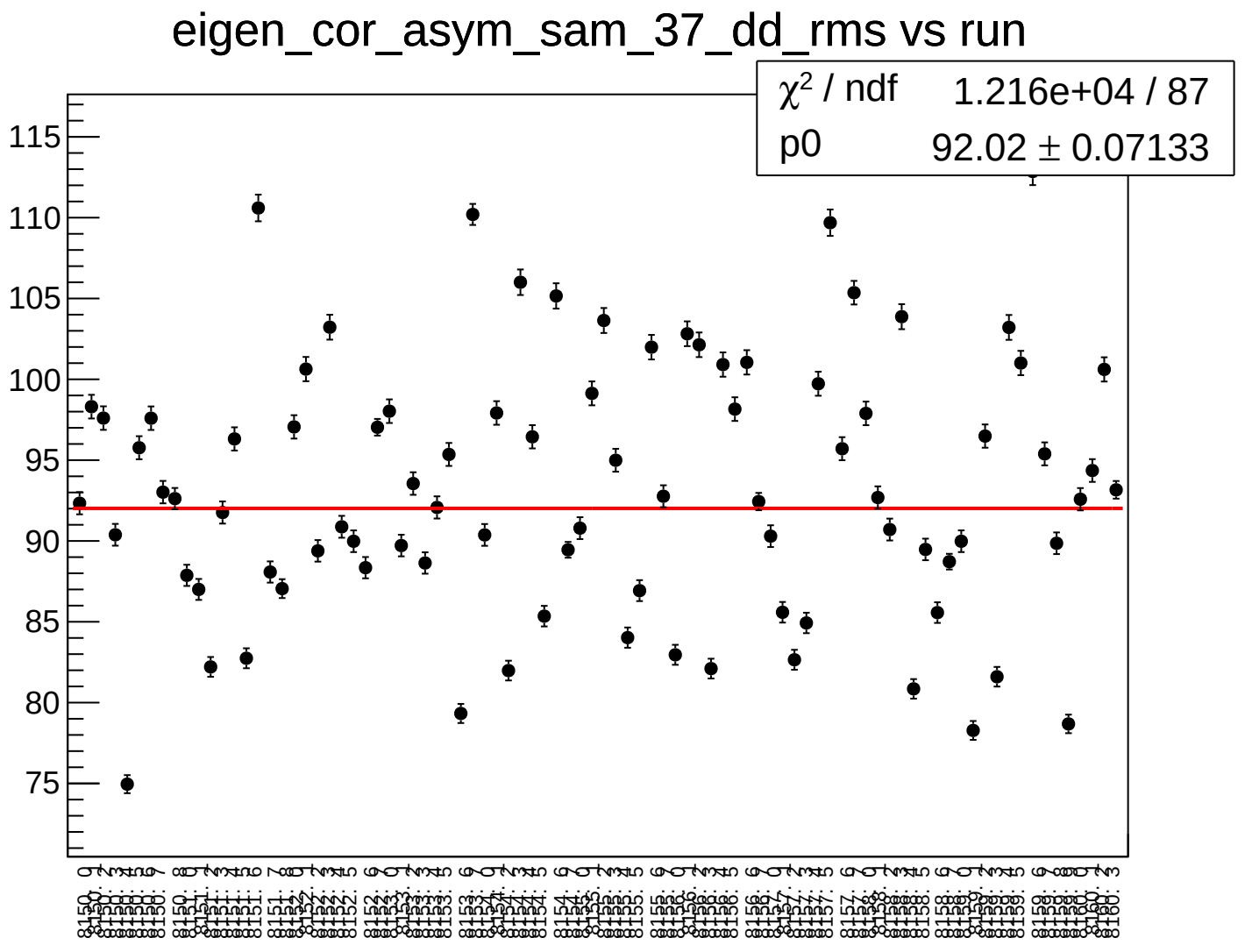

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 99.27 / 87
p0 −1397 ± 978.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1272
Std Dev 0
2
1
0
−1
−2

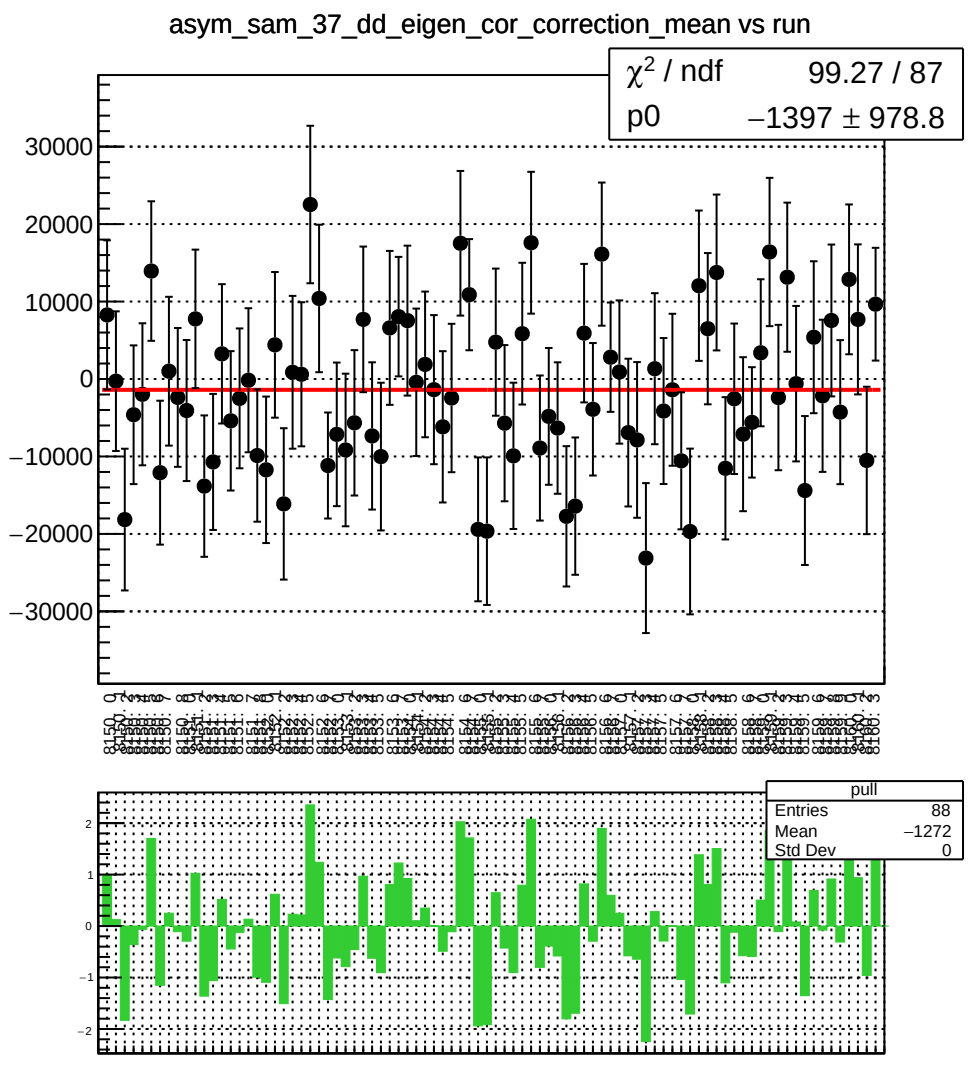

pull1D
Entries 88
Mean −0.002077
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

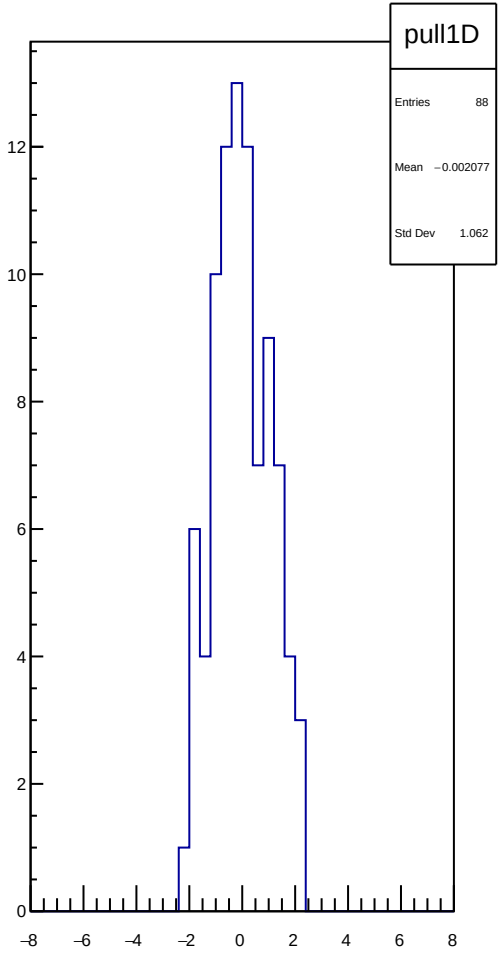

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 2504 / 87
p0 895.5 ± 0.6921
1000
950
900
850
800

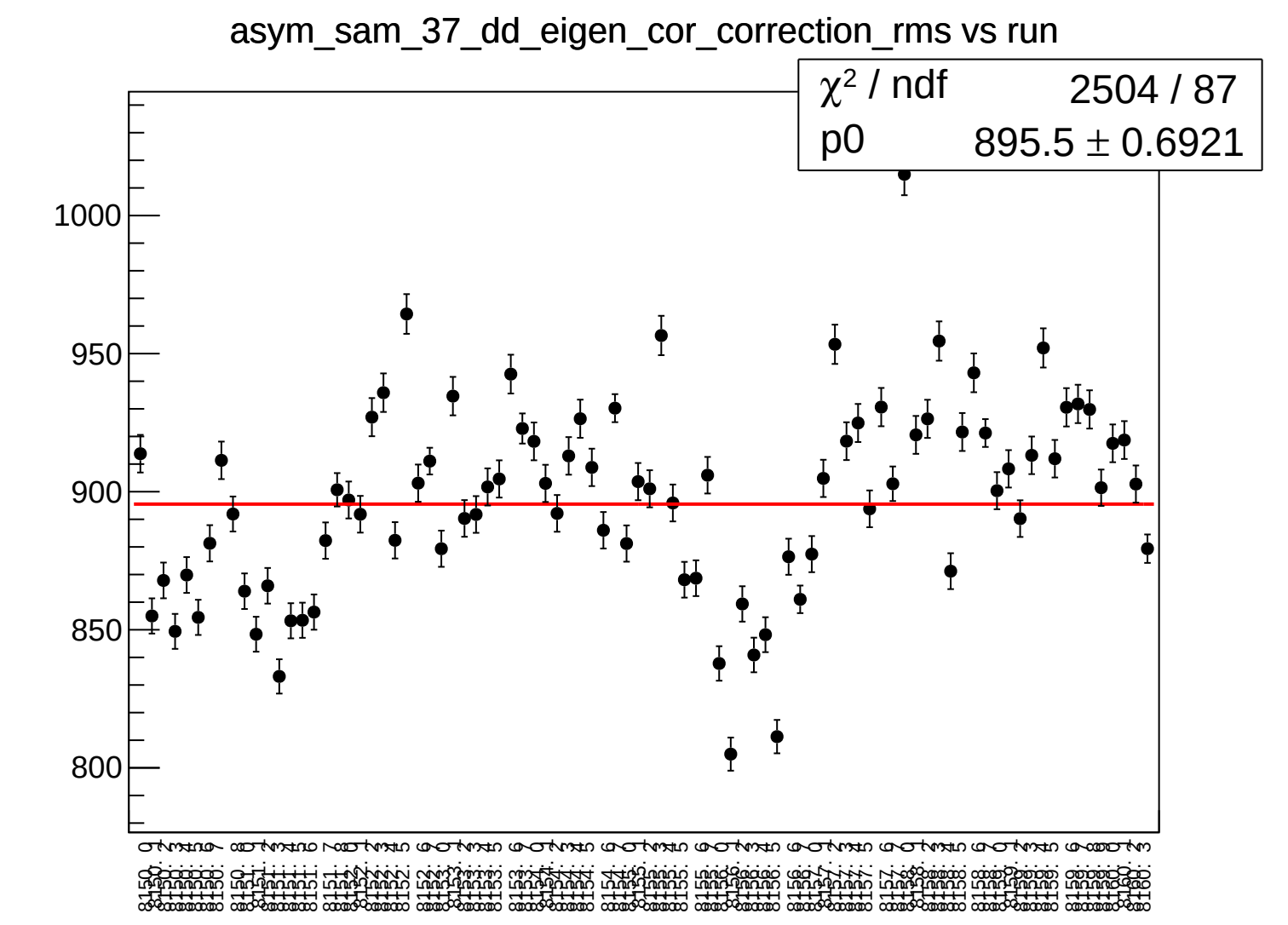

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 87.75 / 87
p0 −48.01 ± 100.9
pull
Entries 88
Mean 75.55
Std Dev 0

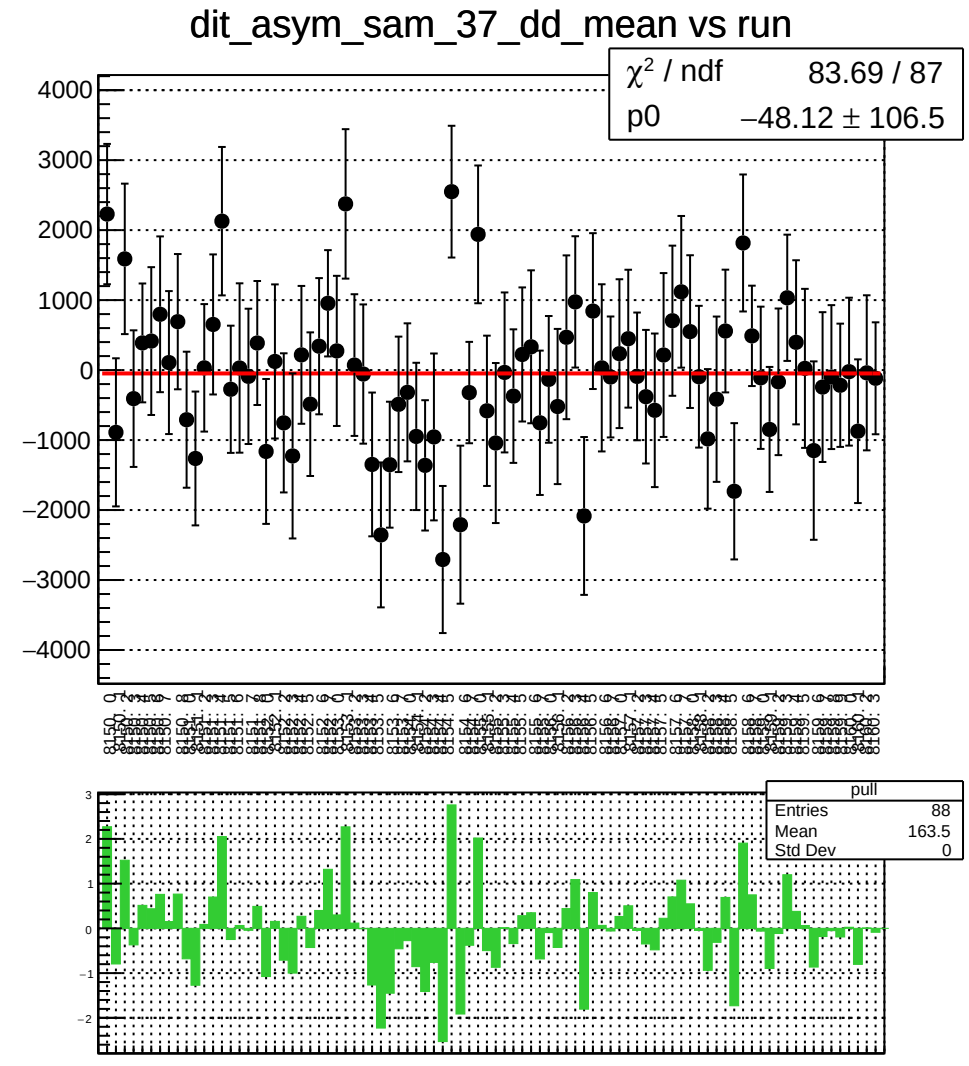

pull1D
Entries 88
Mean −0.01901
Std Dev 0.9984

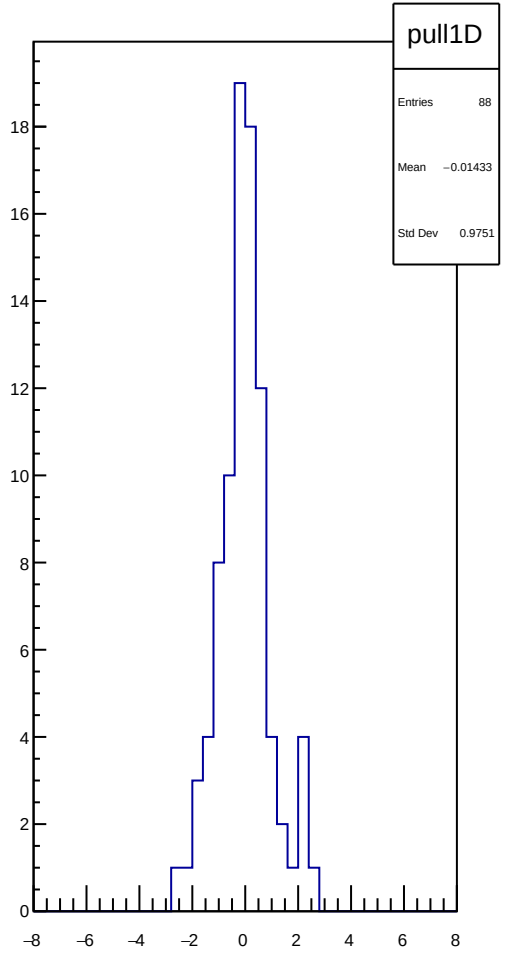

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.216e+04 / 87
p0 92.02 ± 0.07133
115
110
105
100
95
90
85
80
75

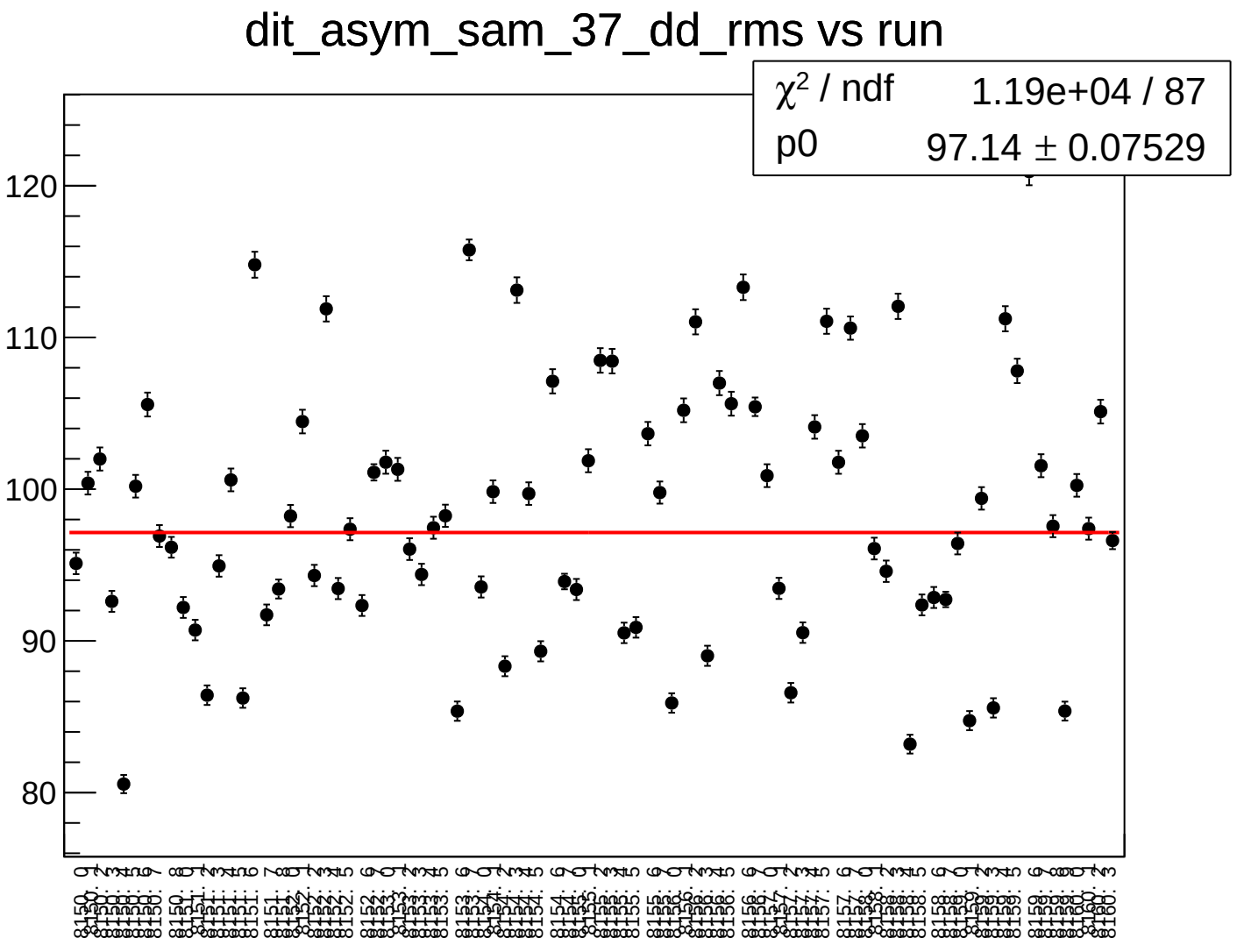

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.27 / 87
p0 −1397 ± 978.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1272
Std Dev 0
2
1
0
−1
−2

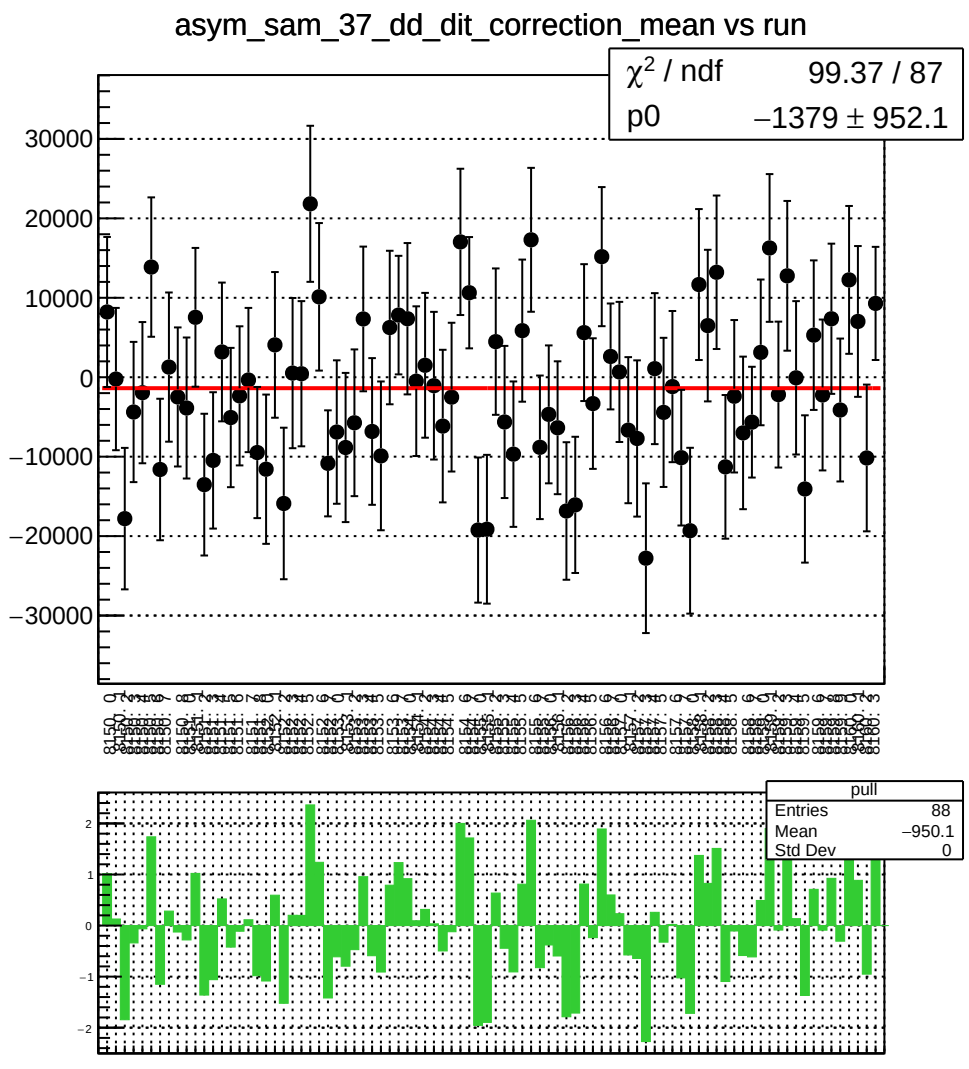

pull1D
Entries 88
Mean −0.002077
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

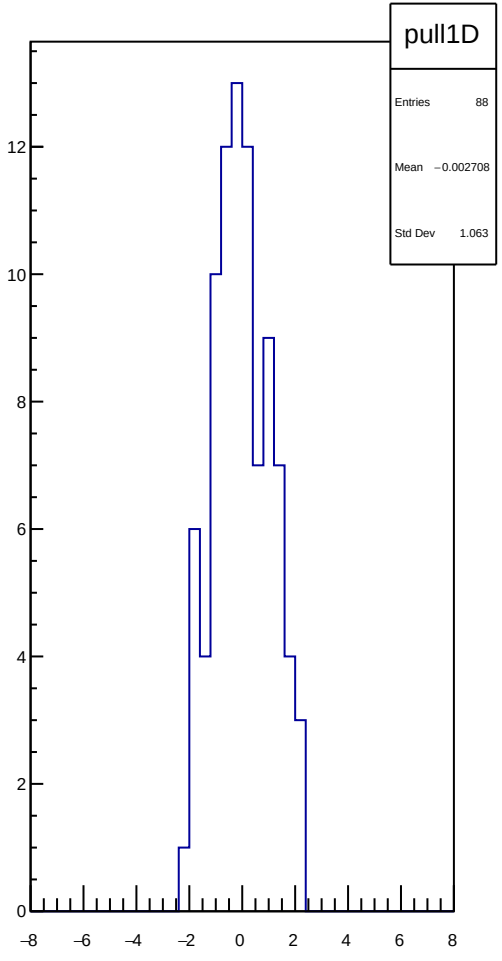

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2504 / 87
p0 895.5 ± 0.6921
1000
950
900
850
800

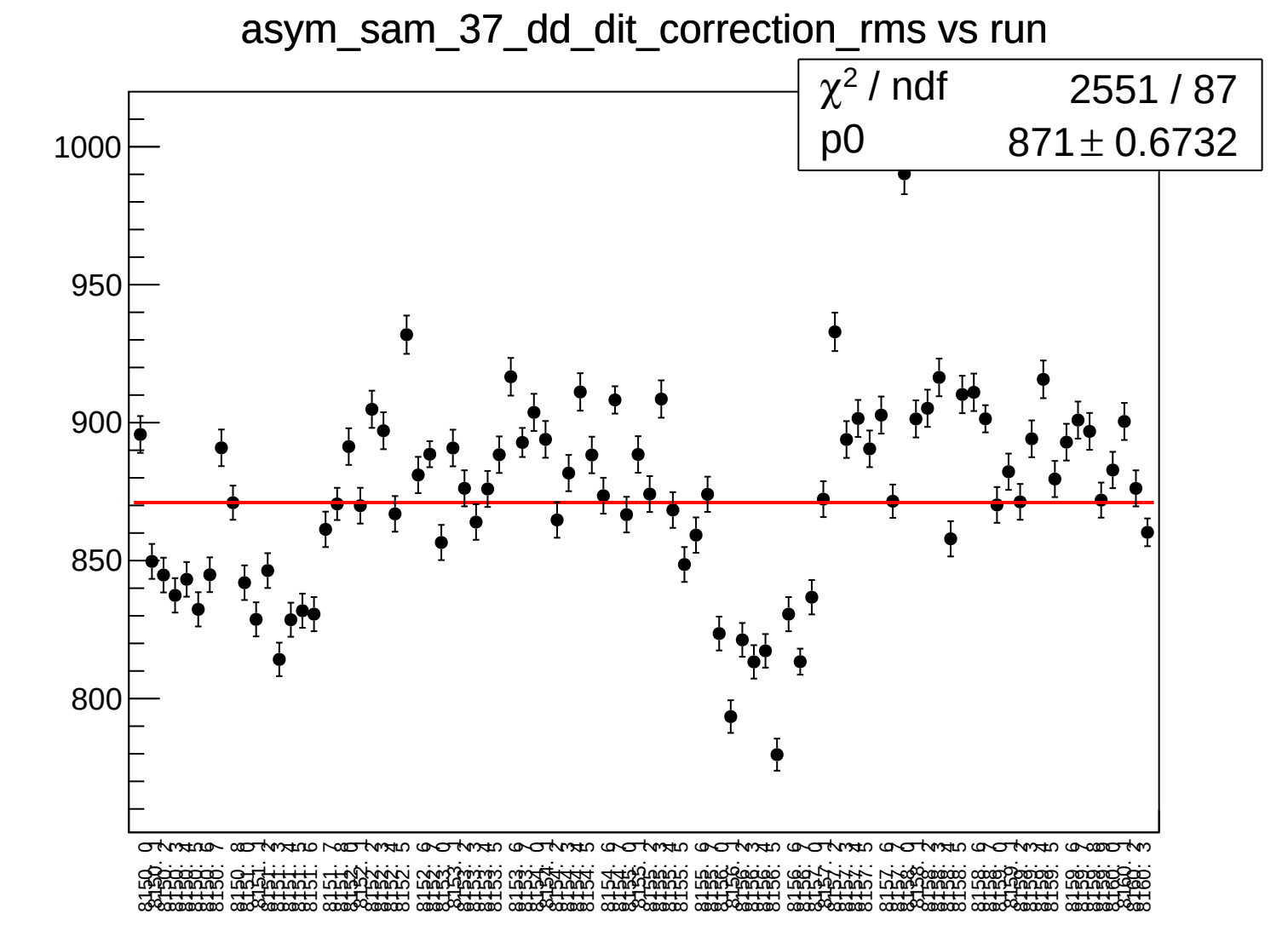

dit_asym_sam_37_dd_mean vs run
χ² / ndf 83.69 / 87
p0 −48.12 ± 106.5
pull
Entries 88
Mean 163.5
Std Dev 0

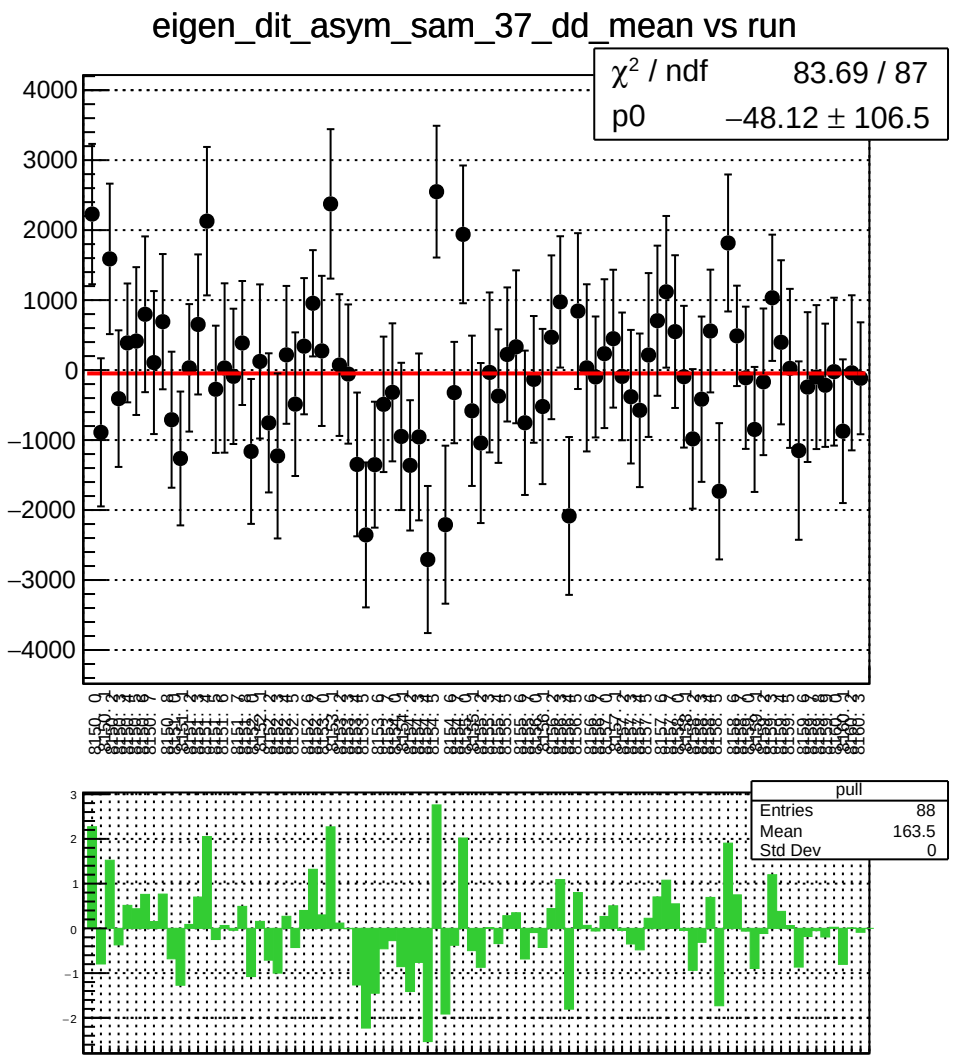

pull1D
Entries 88
Mean −0.01433
Std Dev 0.9751

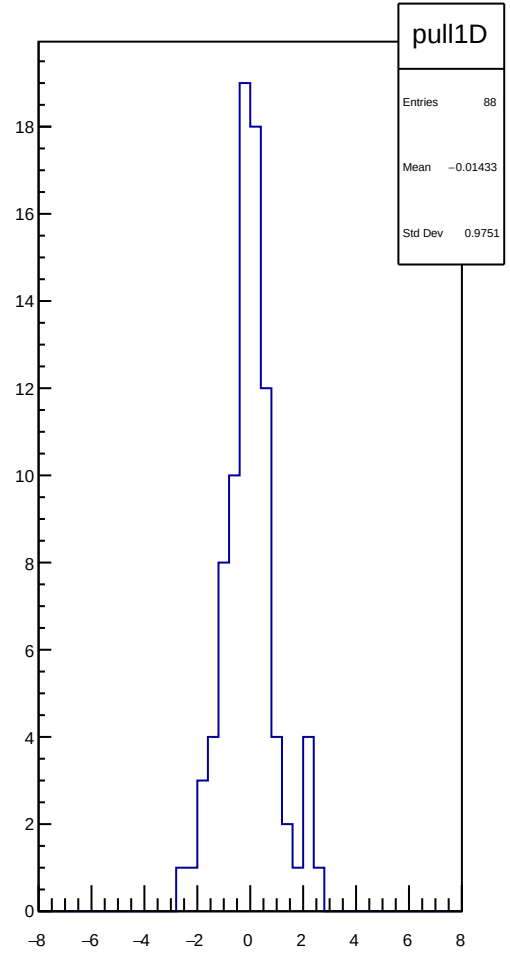

dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.19e+04 / 87
p0 97.14 ± 0.07529
120
110
100
90
80

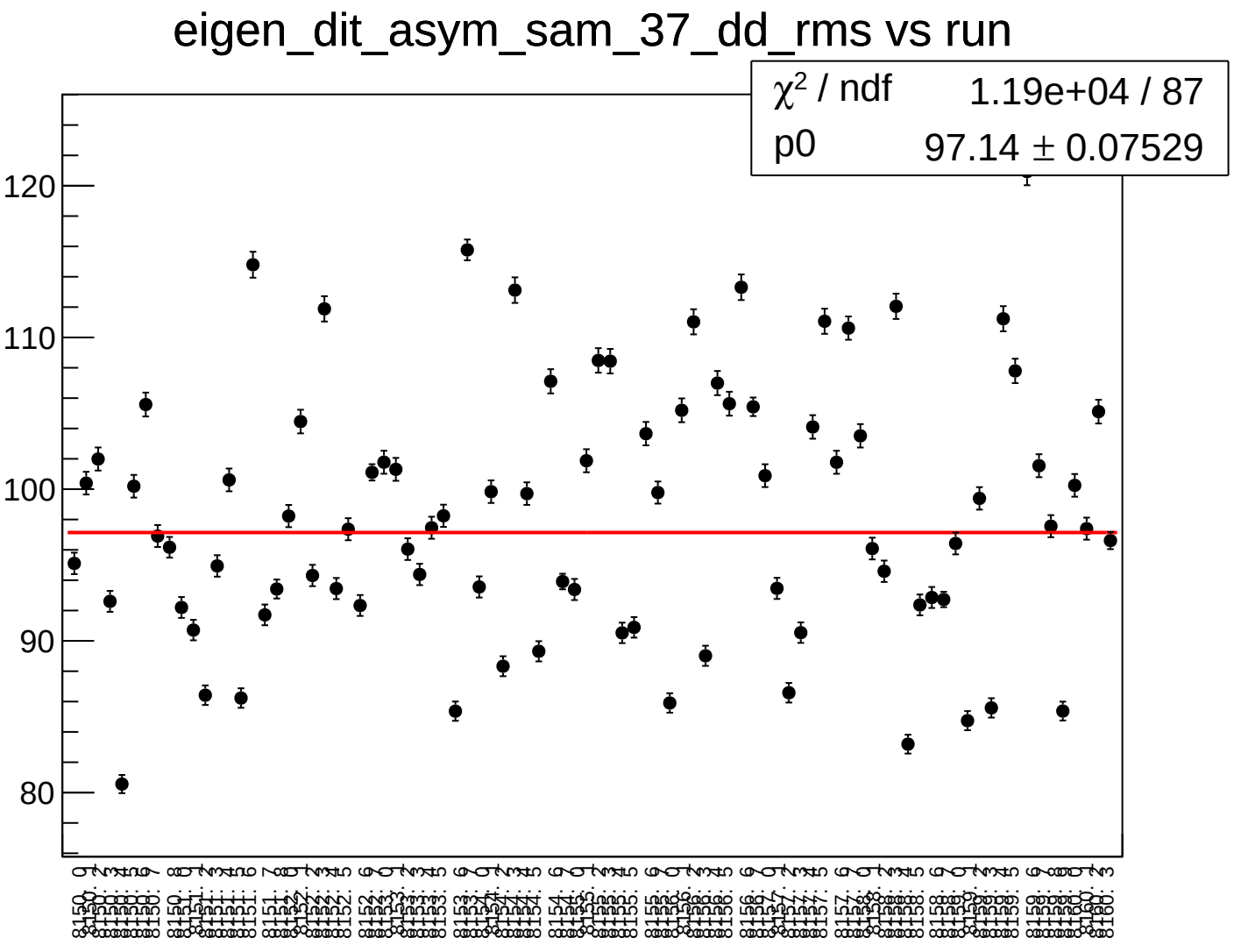

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 99.37 / 87
p0 −1379 ± 952.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −950.1
Std Dev 0
2
1
0
−1
−2

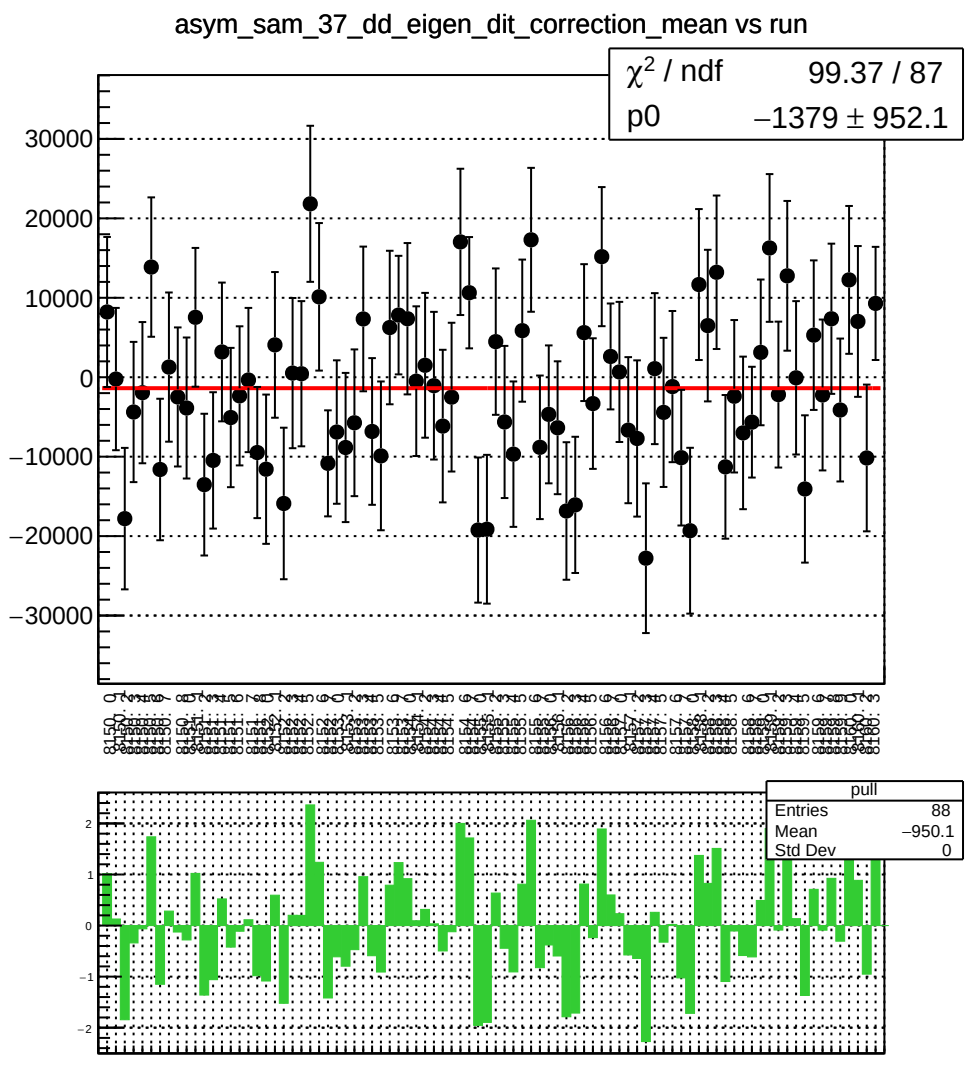

pull1D
Entries 88
Mean −0.002708
Std Dev 1.063
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

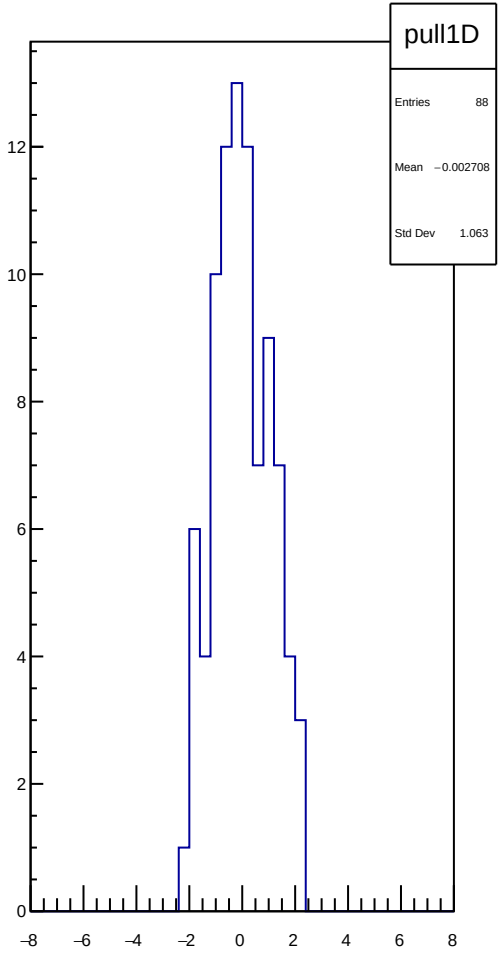

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 2551 / 87
p0 871 ± 0.6732
1000
950
900
850
800

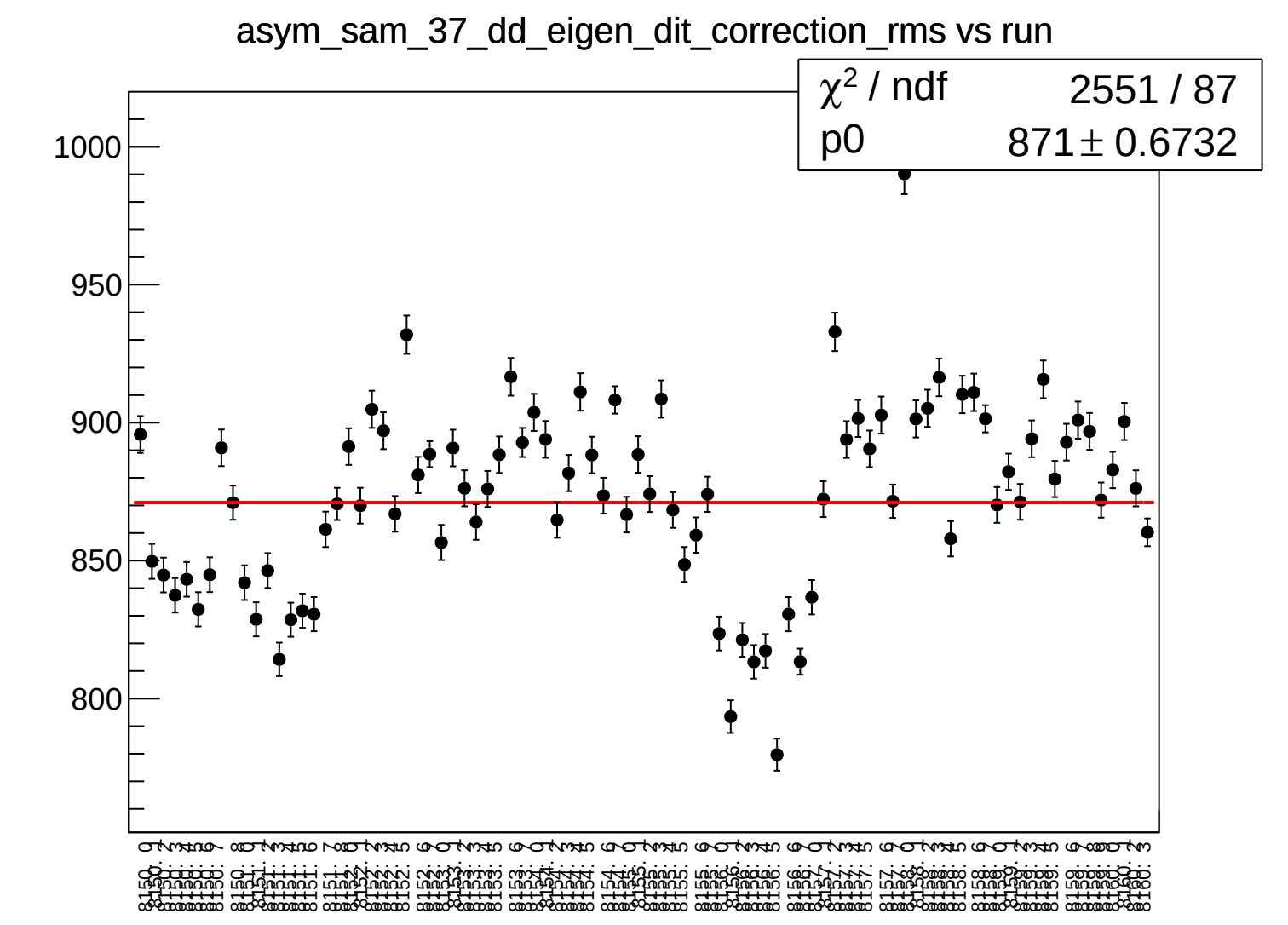

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 83.69 / 87
p0 −48.12 ± 106.5
pull
Entries 88
Mean 163.5
Std Dev 0

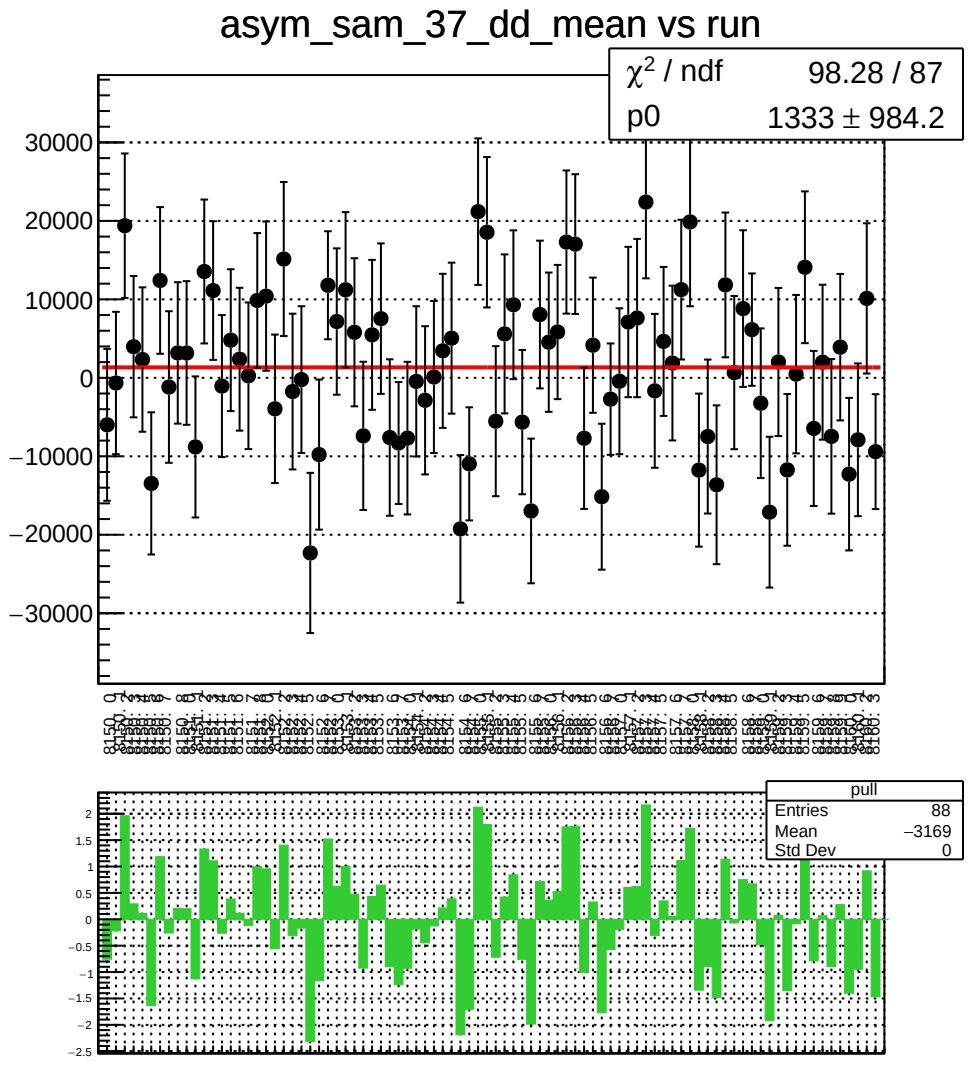

pull1D
Entries 88
Mean −0.01433
Std Dev 0.9751

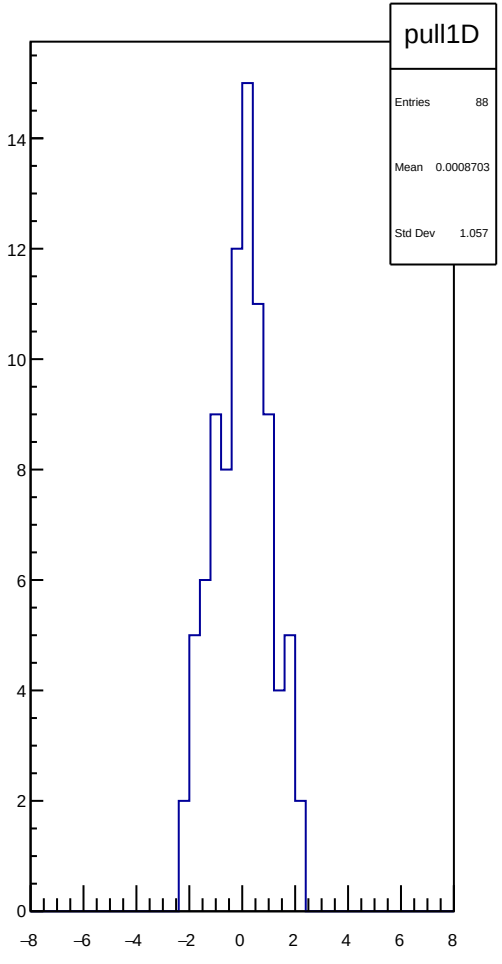

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.19e+04 / 87
p0 97.14 ± 0.07529
120
110
100
90
80

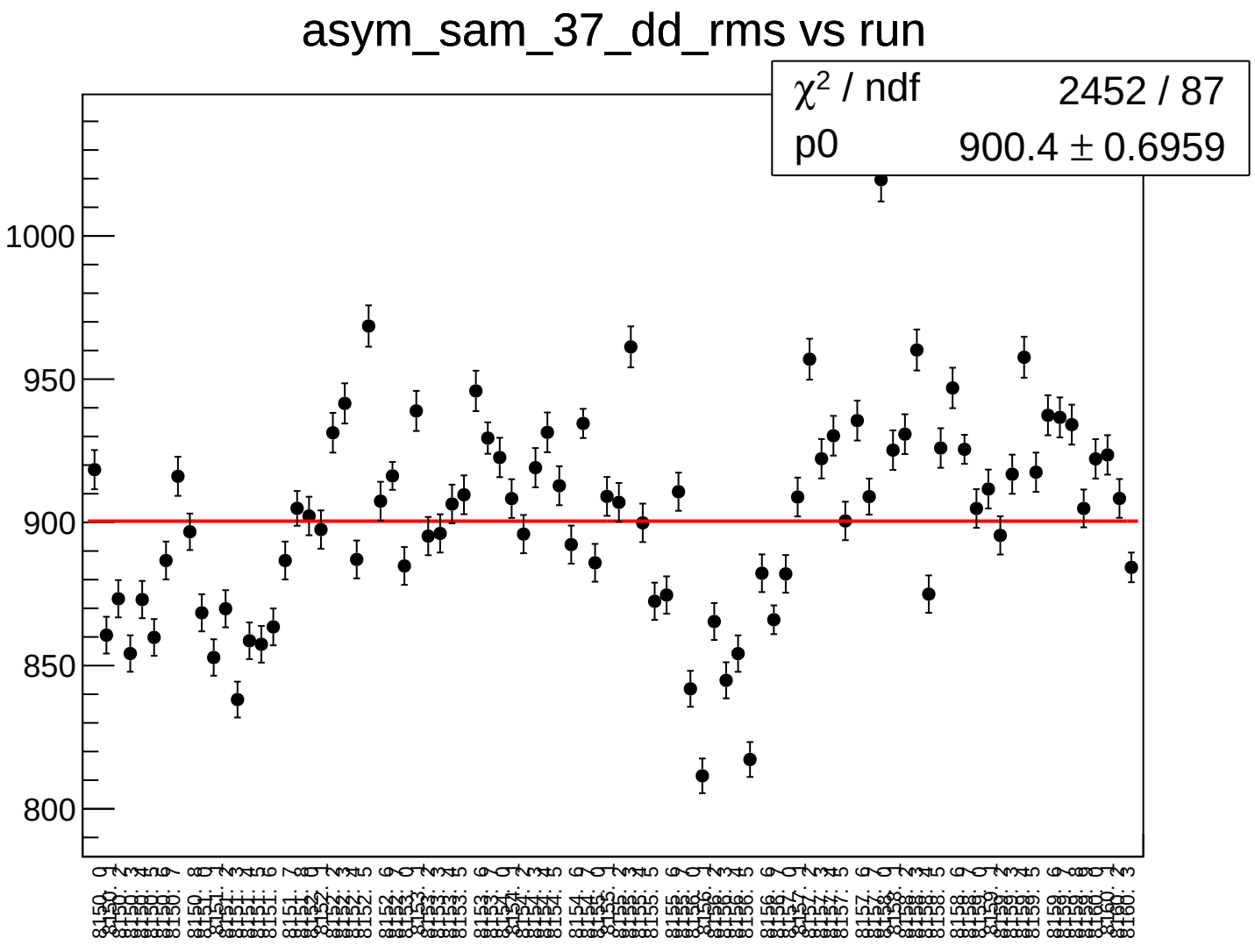

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.37 / 87
p0 −1379 ± 952.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −950.1
Std Dev 0
2
1
0
−1
−2

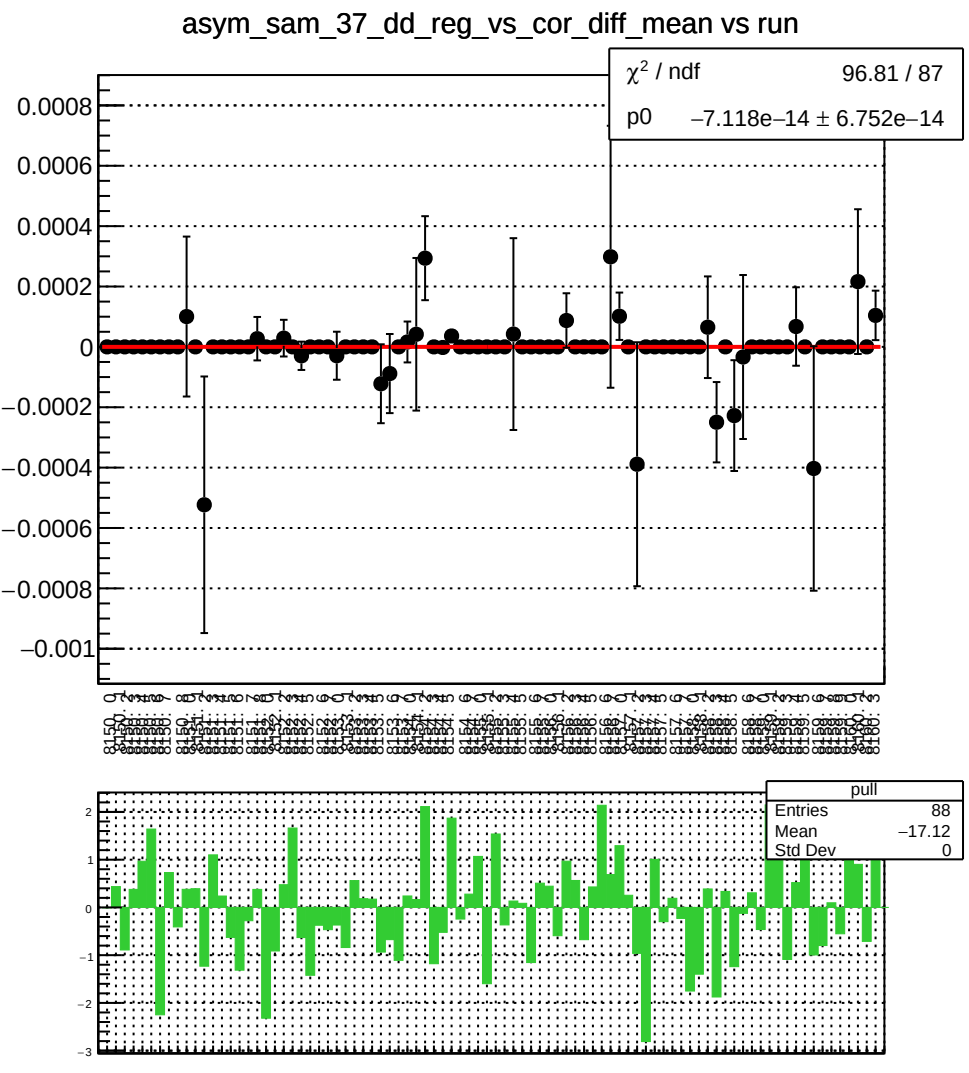

pull1D
Entries 88
Mean −0.002708
Std Dev 1.063
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

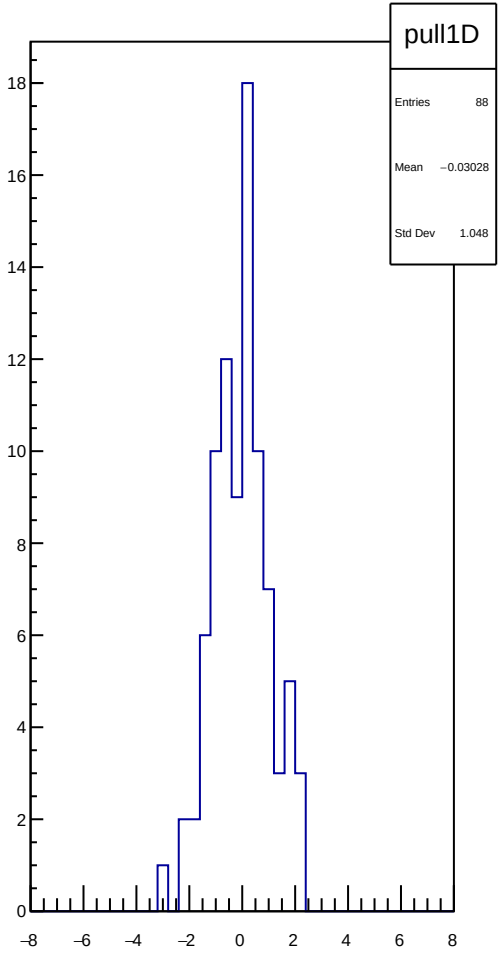

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2551 / 87
p0 871 ± 0.6732
1000
950
900
850
800

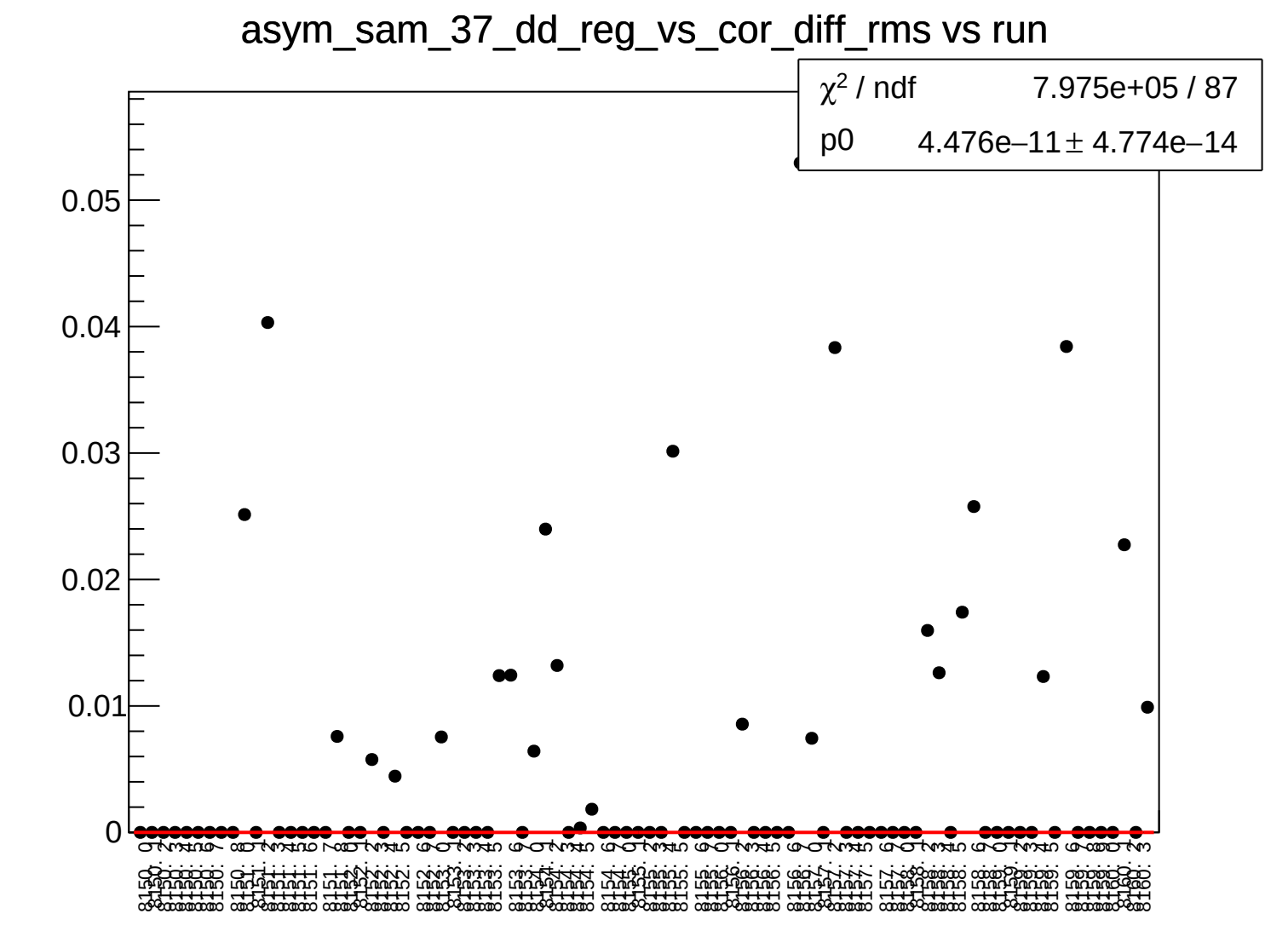

asym_sam_37_dd_mean vs run
χ² / ndf 98.28 / 87
p0 1333 ± 984.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −3169
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

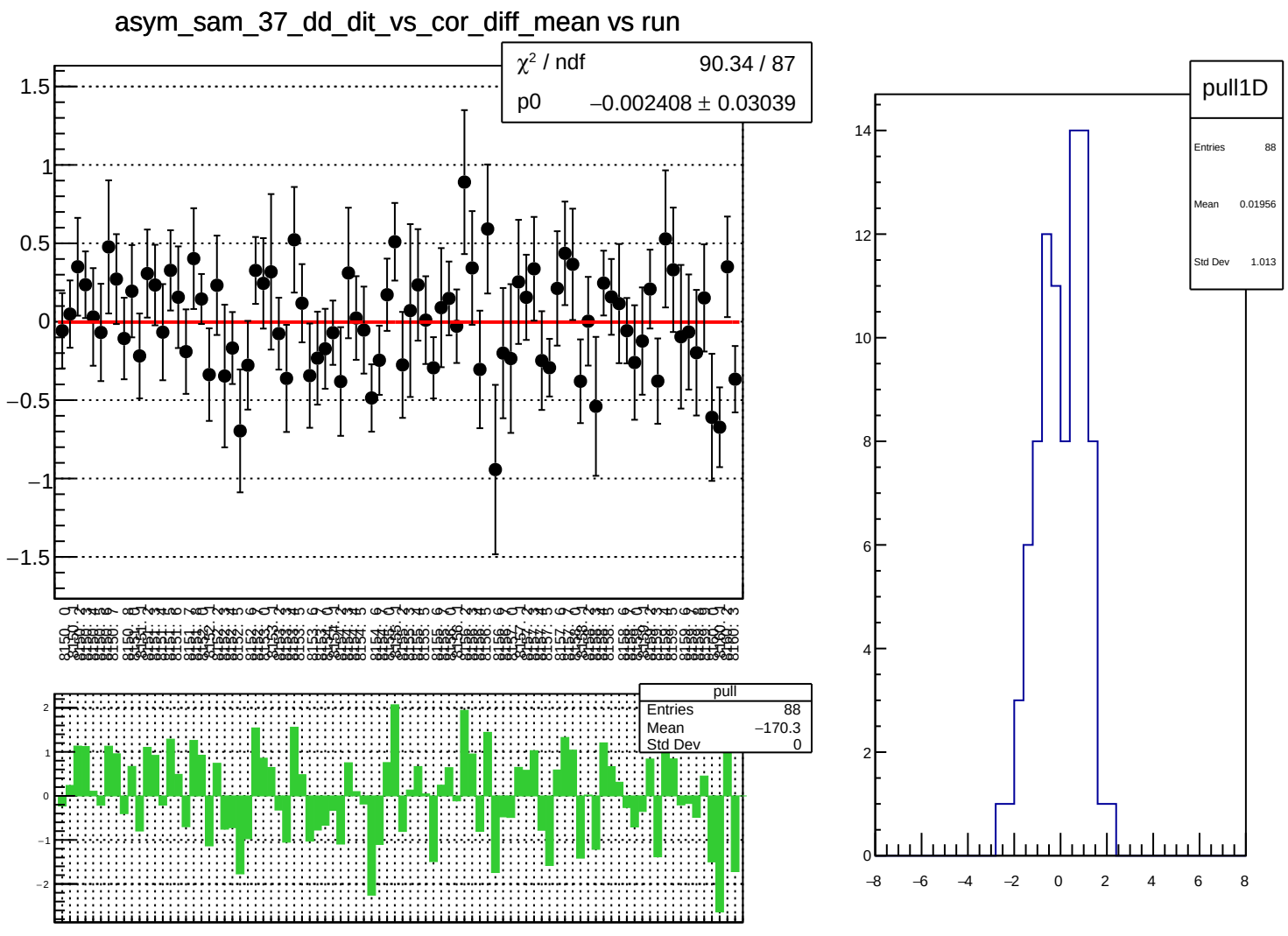

pull1D
Entries 88
Mean 0.0008703
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

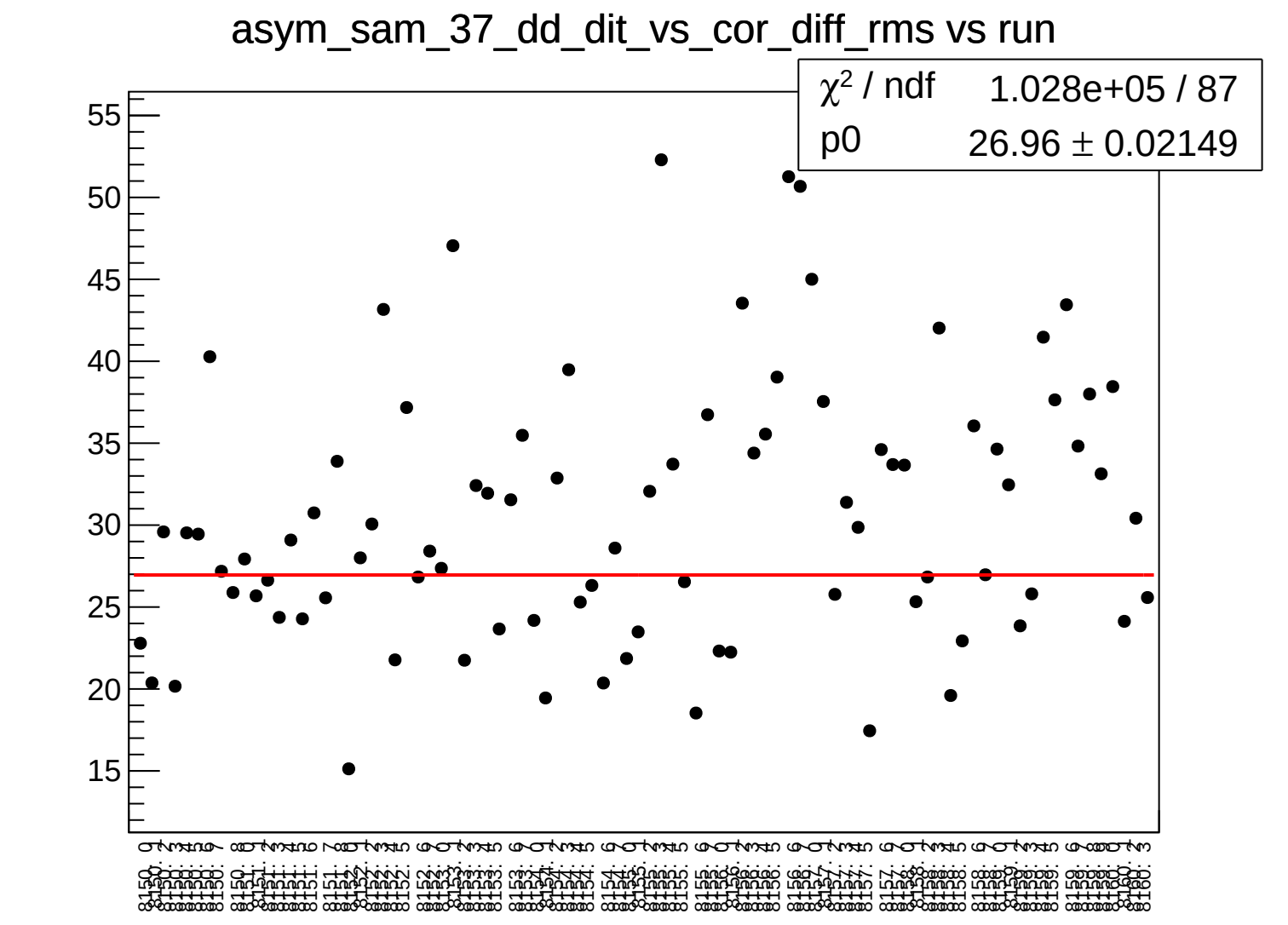

asym_sam_37_dd_rms vs run
χ² / ndf 2452 / 87
p0 900.4 ± 0.6959
1000
950
900
850
800

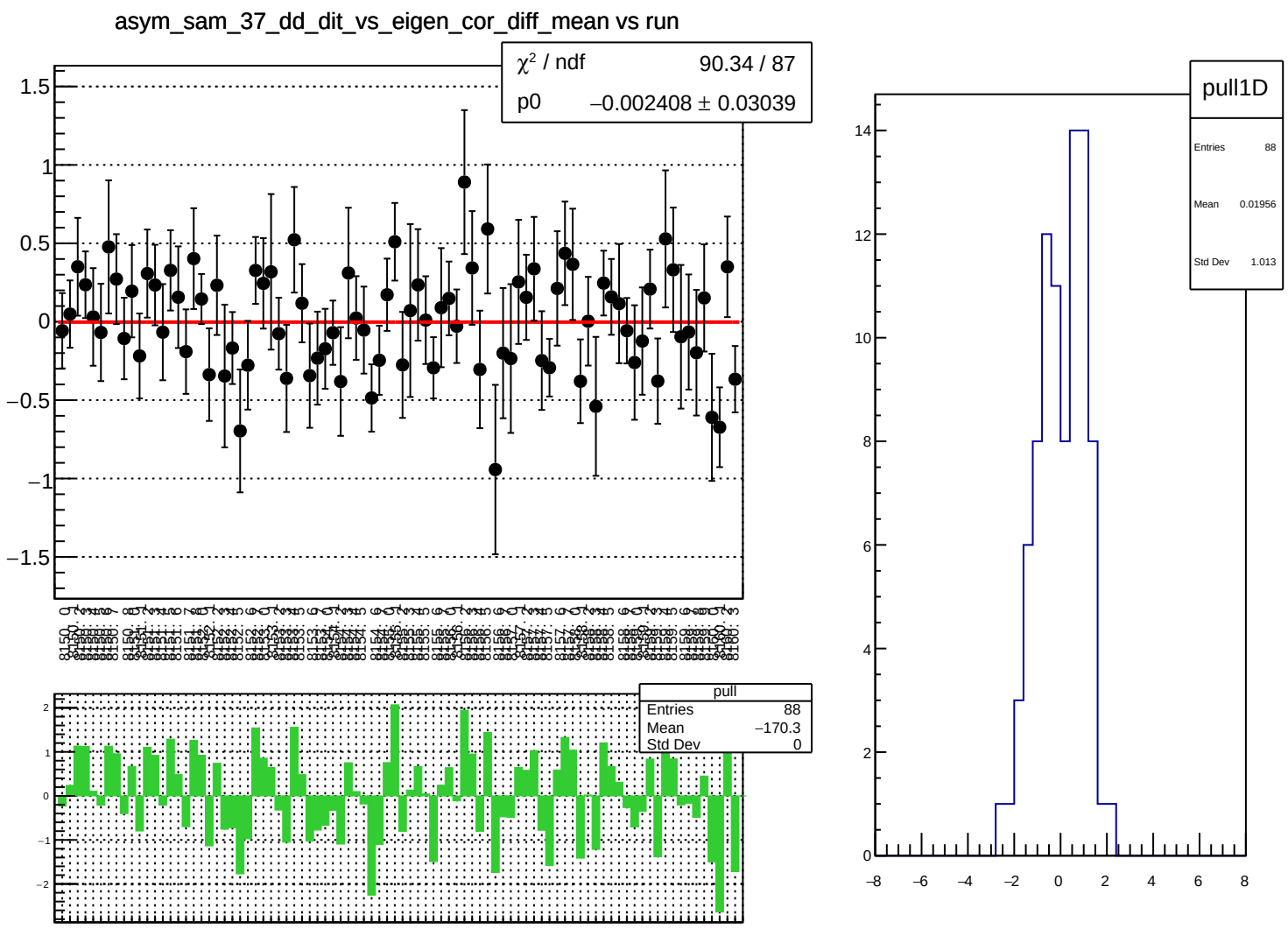

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.81 / 87
p0 −7.118e−14 ± 6.752e−14
pull
Entries 88
Mean −17.12
Std Dev 0

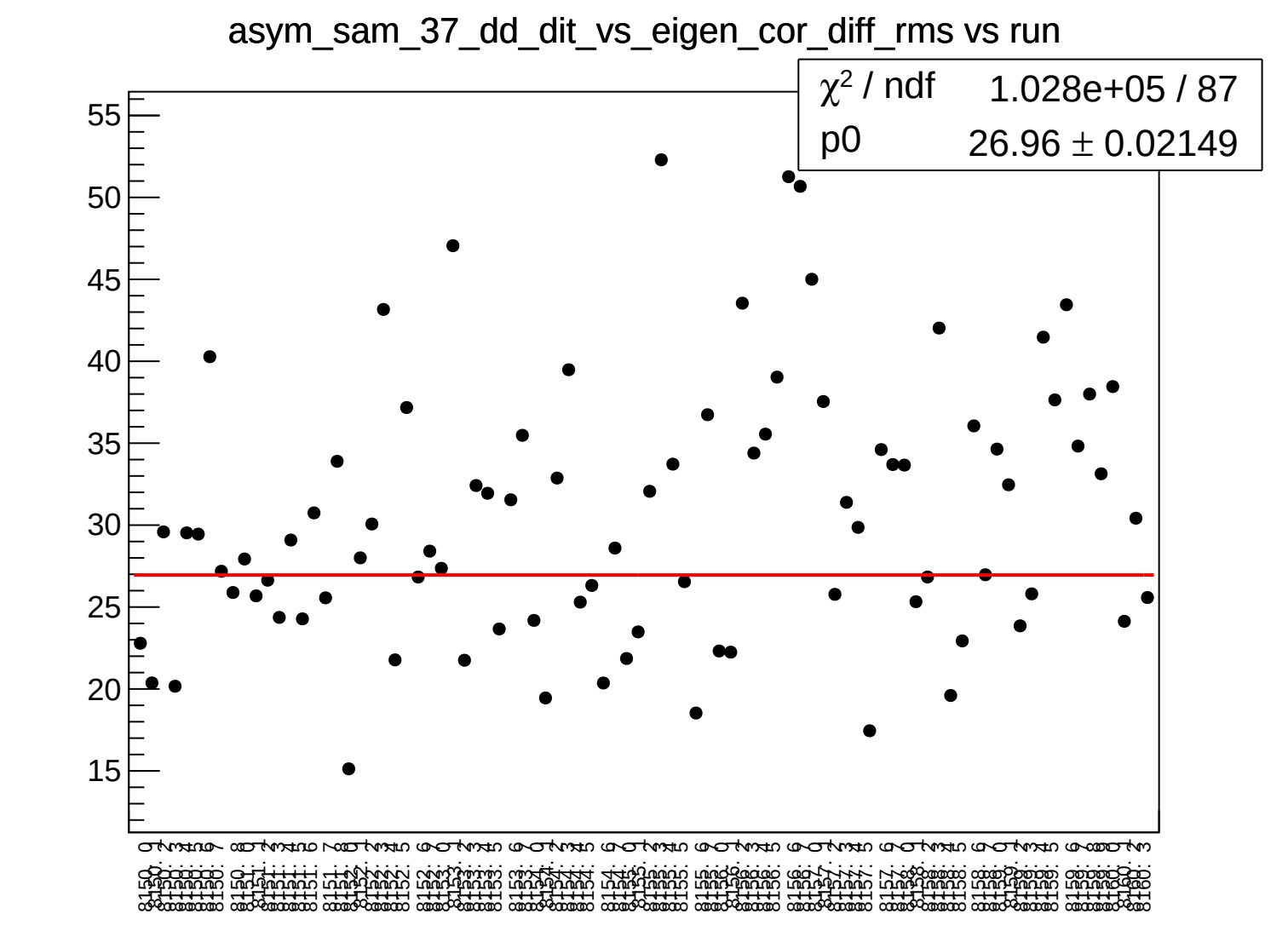

pull1D
Entries 88
Mean −0.03028
Std Dev 1.048

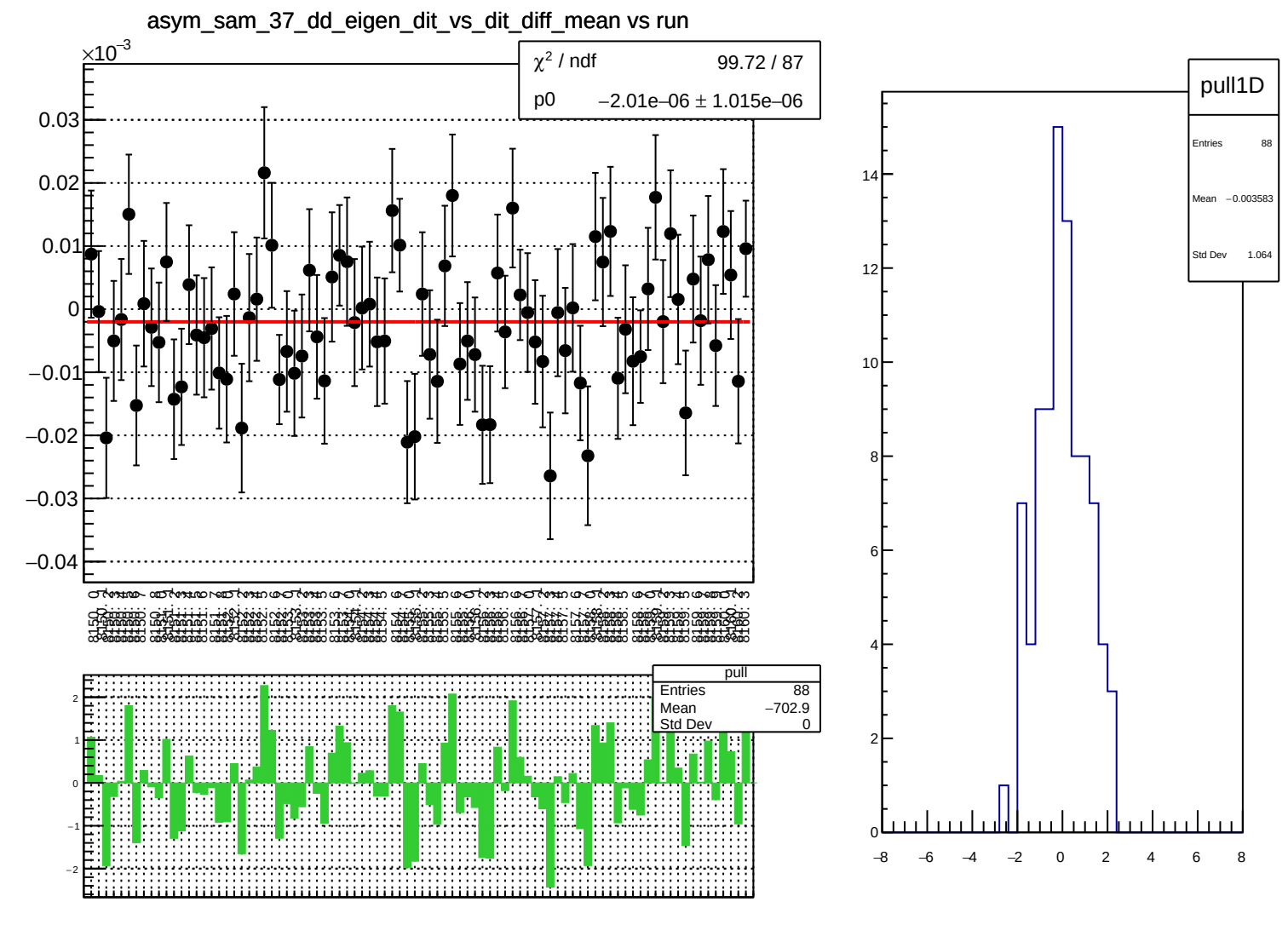

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.975e+05 / 87
p0 4.476e−11 ± 4.774e−14
0.05
0.04
0.03
0.02
0.01
0

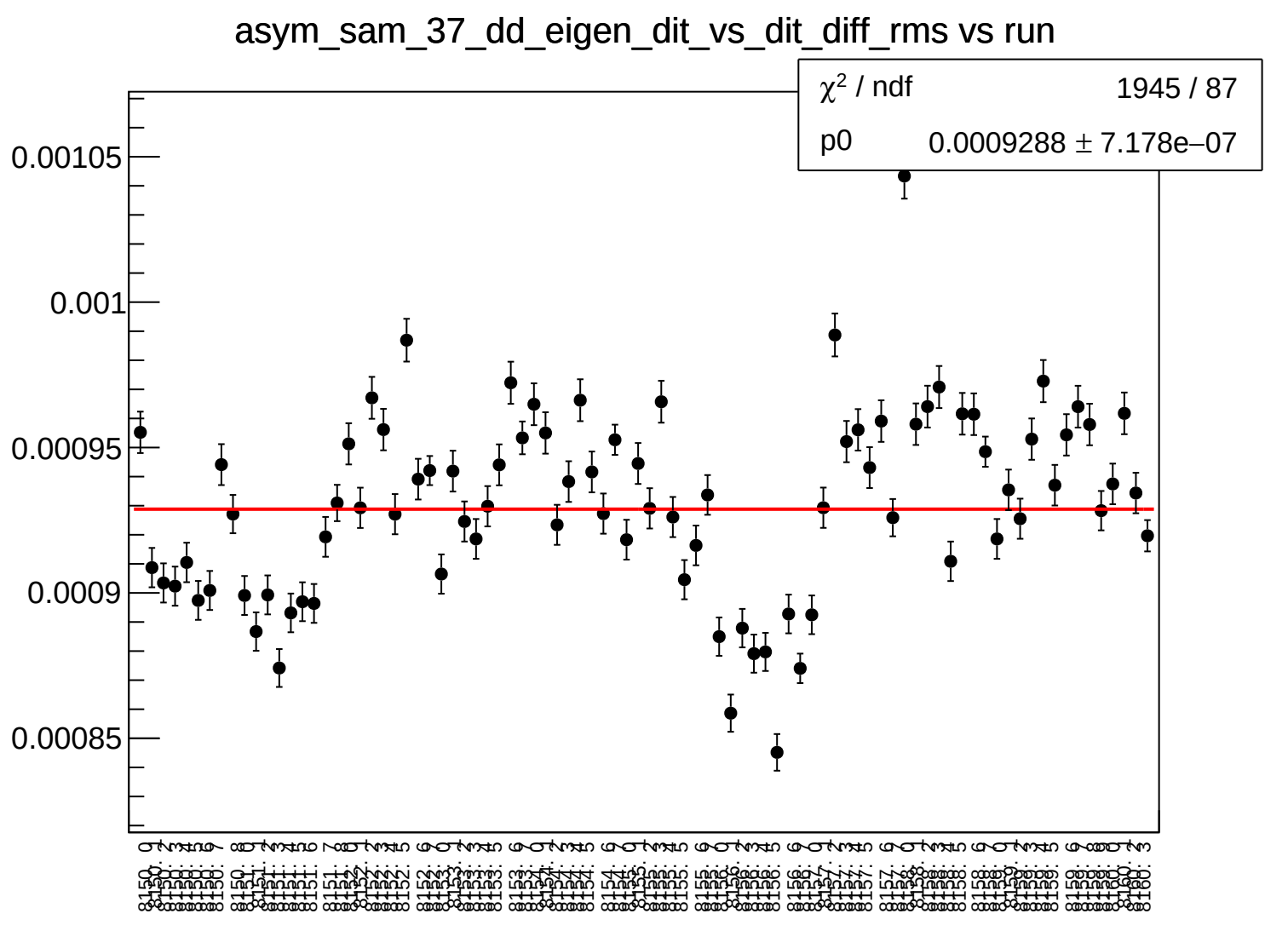

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.34 / 87
p0 −0.002408 ± 0.03039
pull
Entries 88
Mean −170.3
Std Dev 0
pull1D
Entries 88
Mean 0.01956
Std Dev 1.013

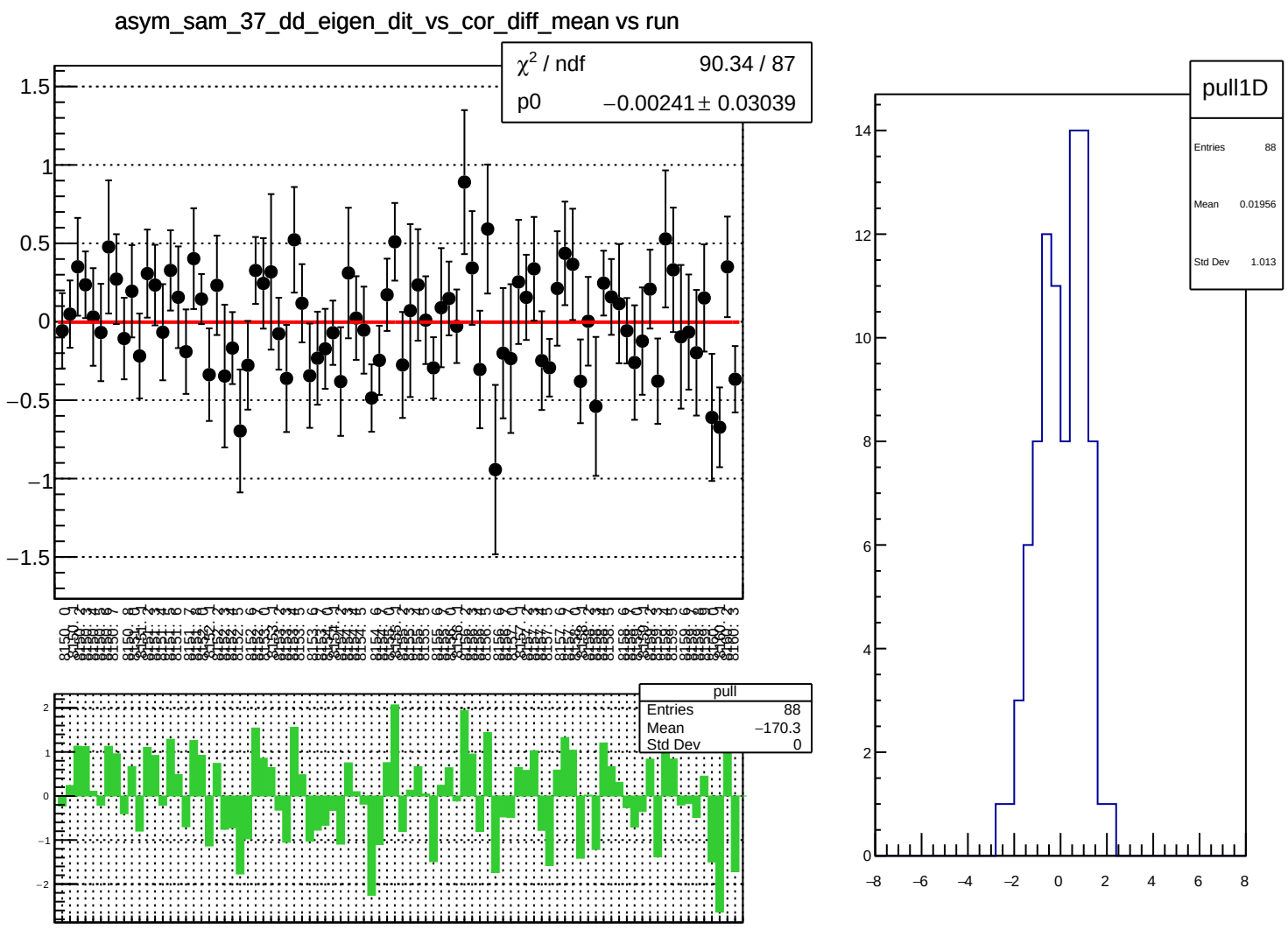

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.028e+05 / 87
p0 26.96 ± 0.02149
55
50
45
40
35
30
25
20
15

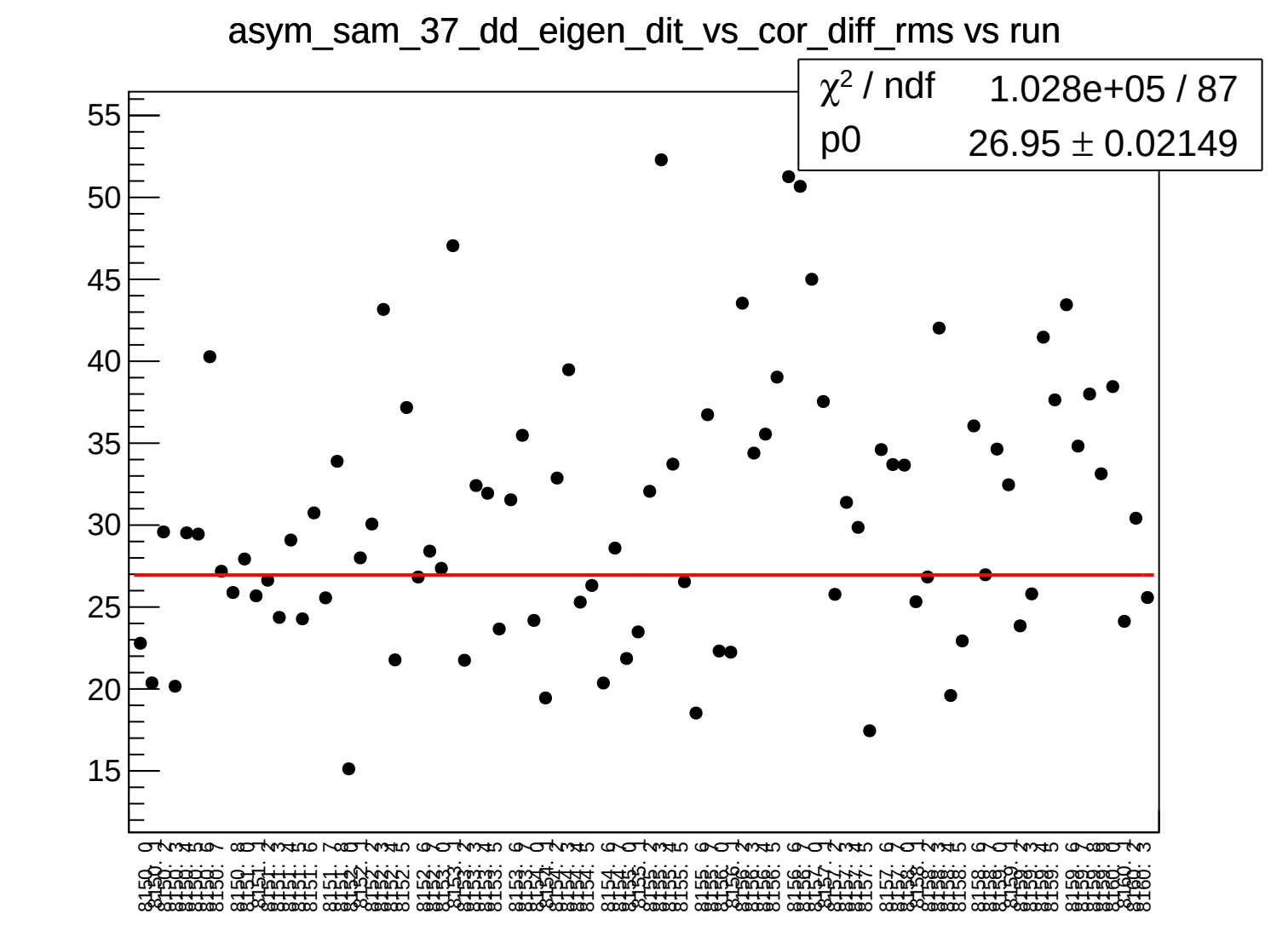

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.34 / 87
p0 −0.002408 ± 0.03039
pull
Entries 88
Mean −170.3
Std Dev 0
pull1D
Entries 88
Mean 0.01956
Std Dev 1.013

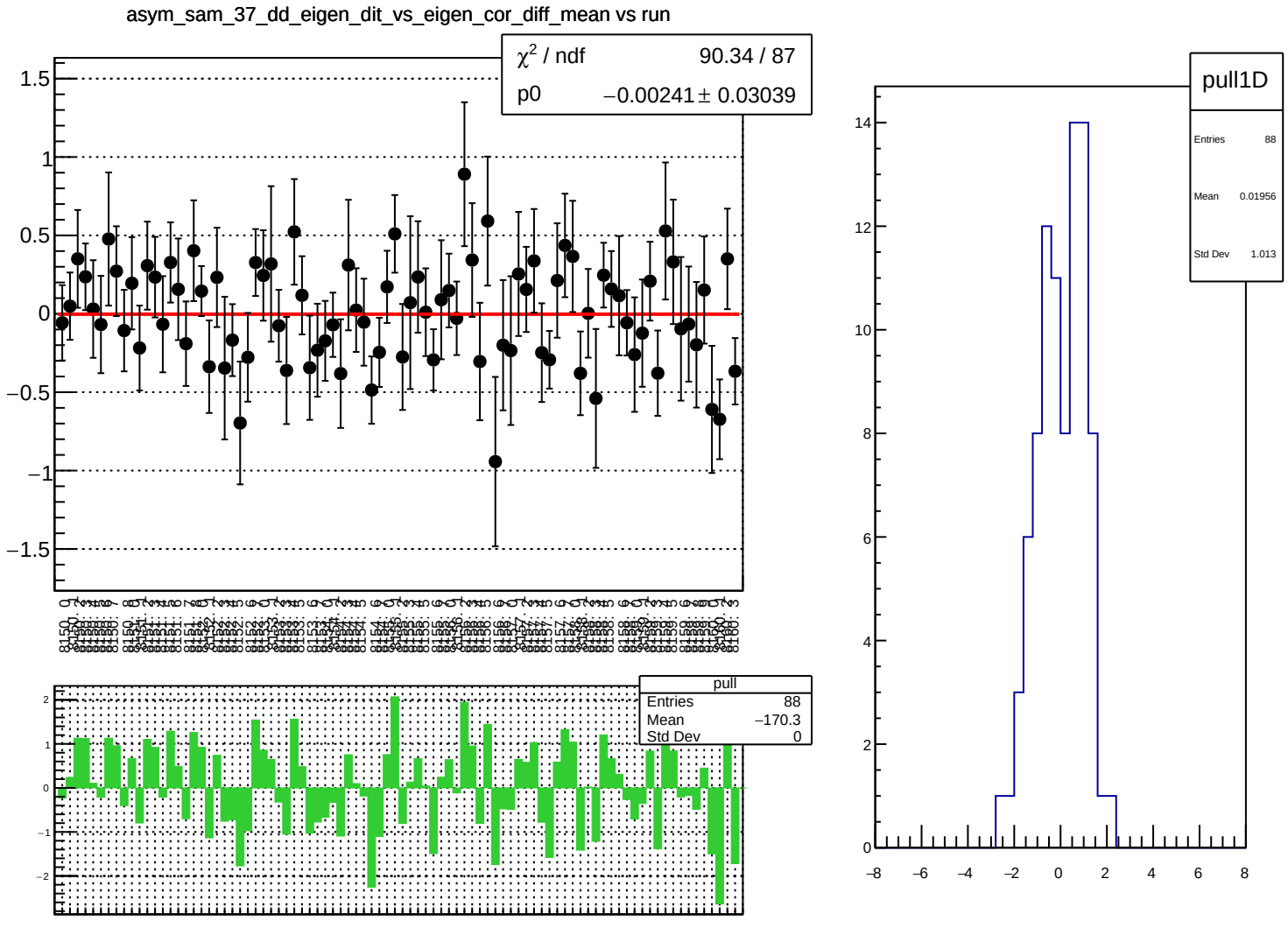

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.028e+05 / 87
p0 26.96 ± 0.02149
55
50
45
40
35
30
25
20
15

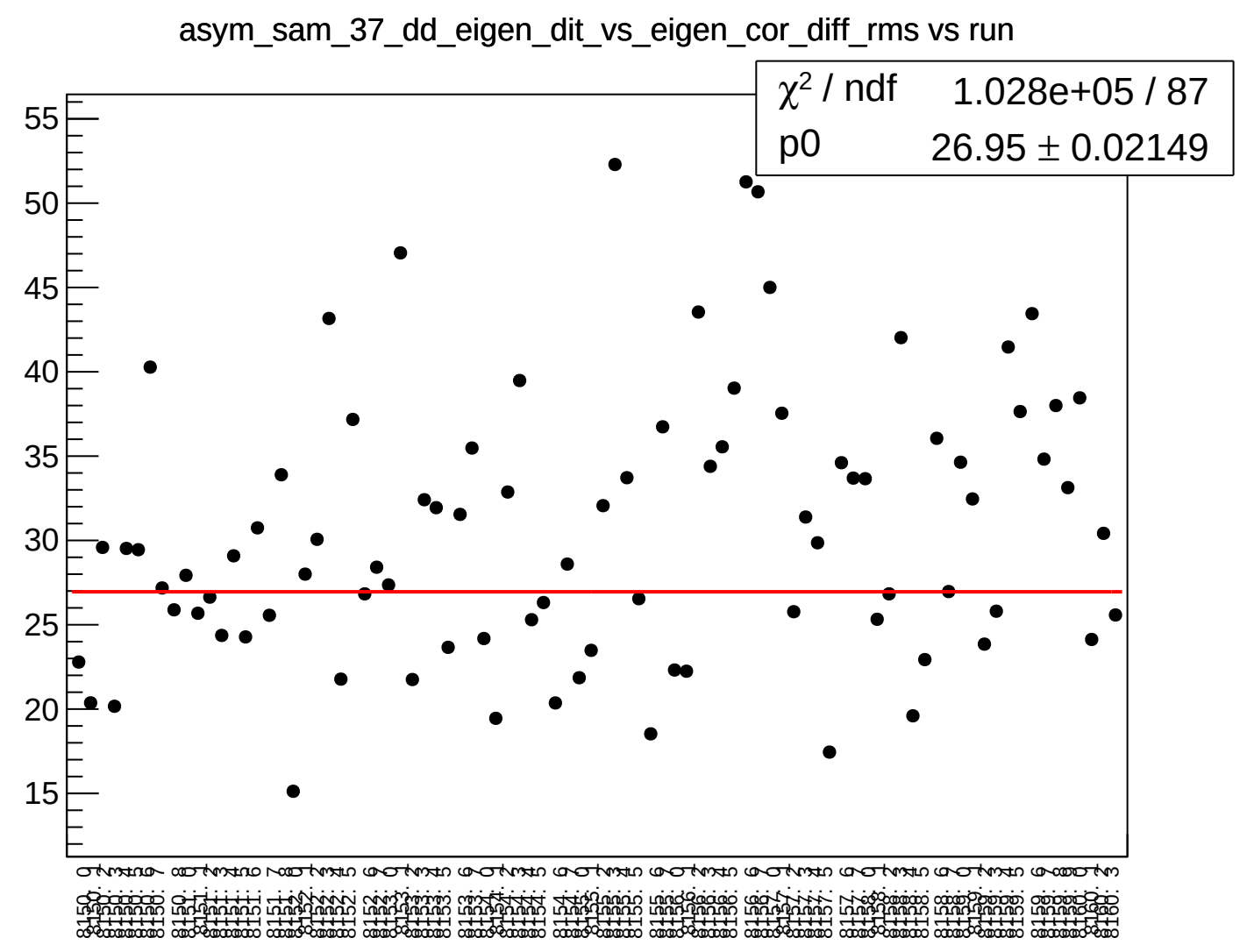

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.72 / 87
p0 −2.01e−06 ± 1.015e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 88
Mean −702.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003583
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

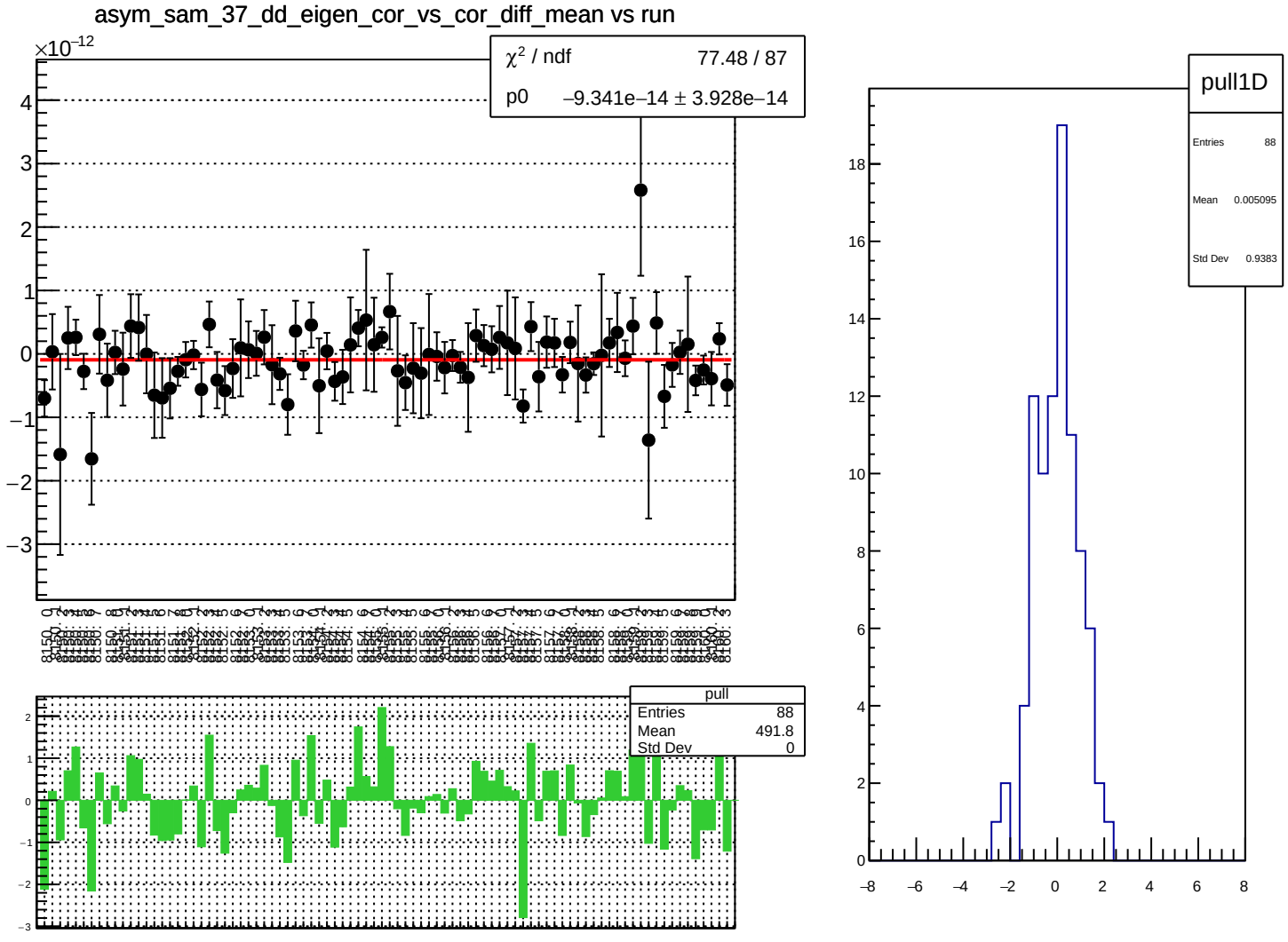

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1945 / 87
p0 0.0009288 ± 7.178e−07
0.00105
0.001
0.00095
0.0009
0.00085

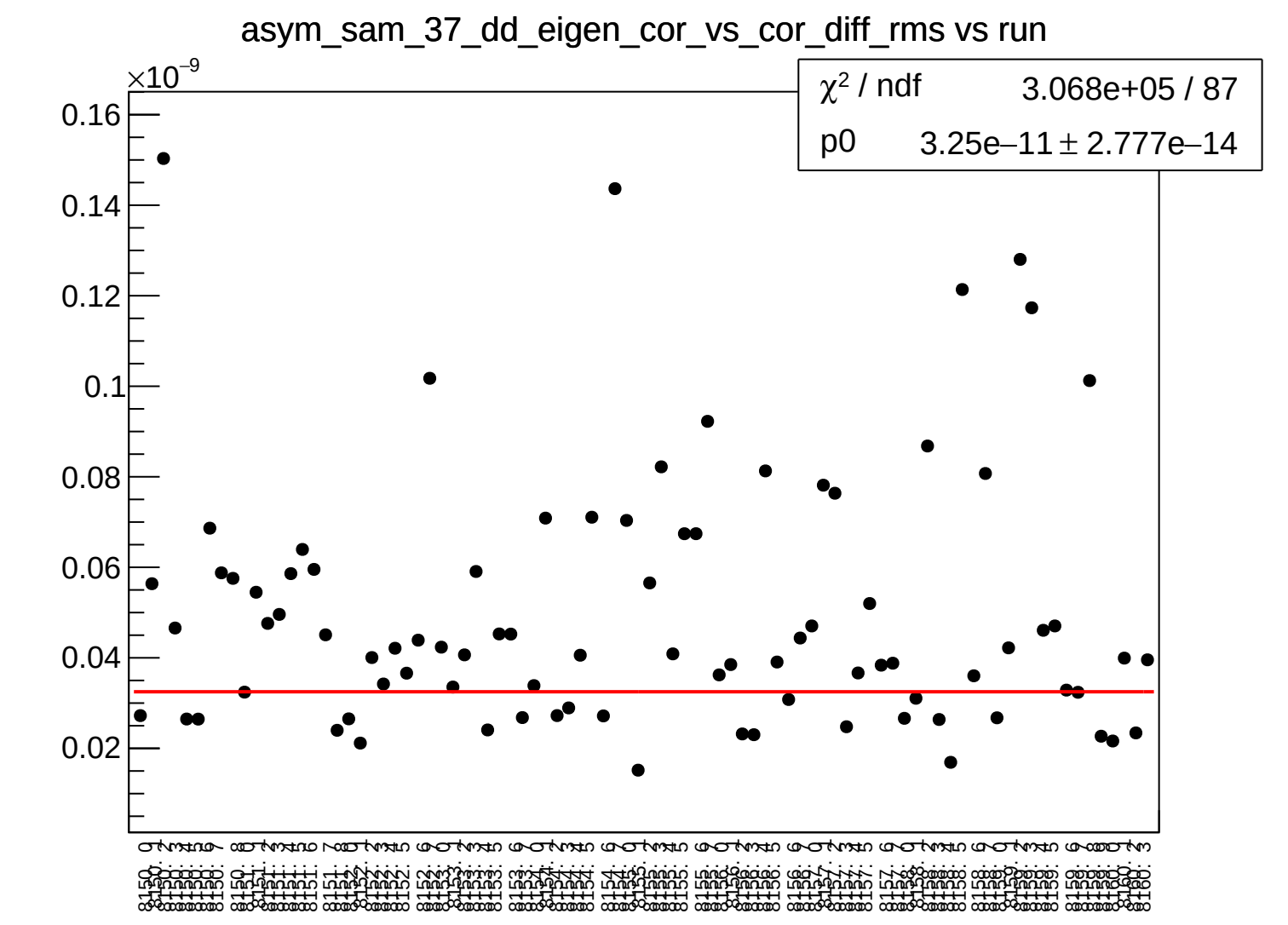

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.34 / 87
p0 −0.00241 ± 0.03039
pull
Entries 88
Mean −170.3
Std Dev 0
pull1D
Entries 88
Mean 0.01956
Std Dev 1.013

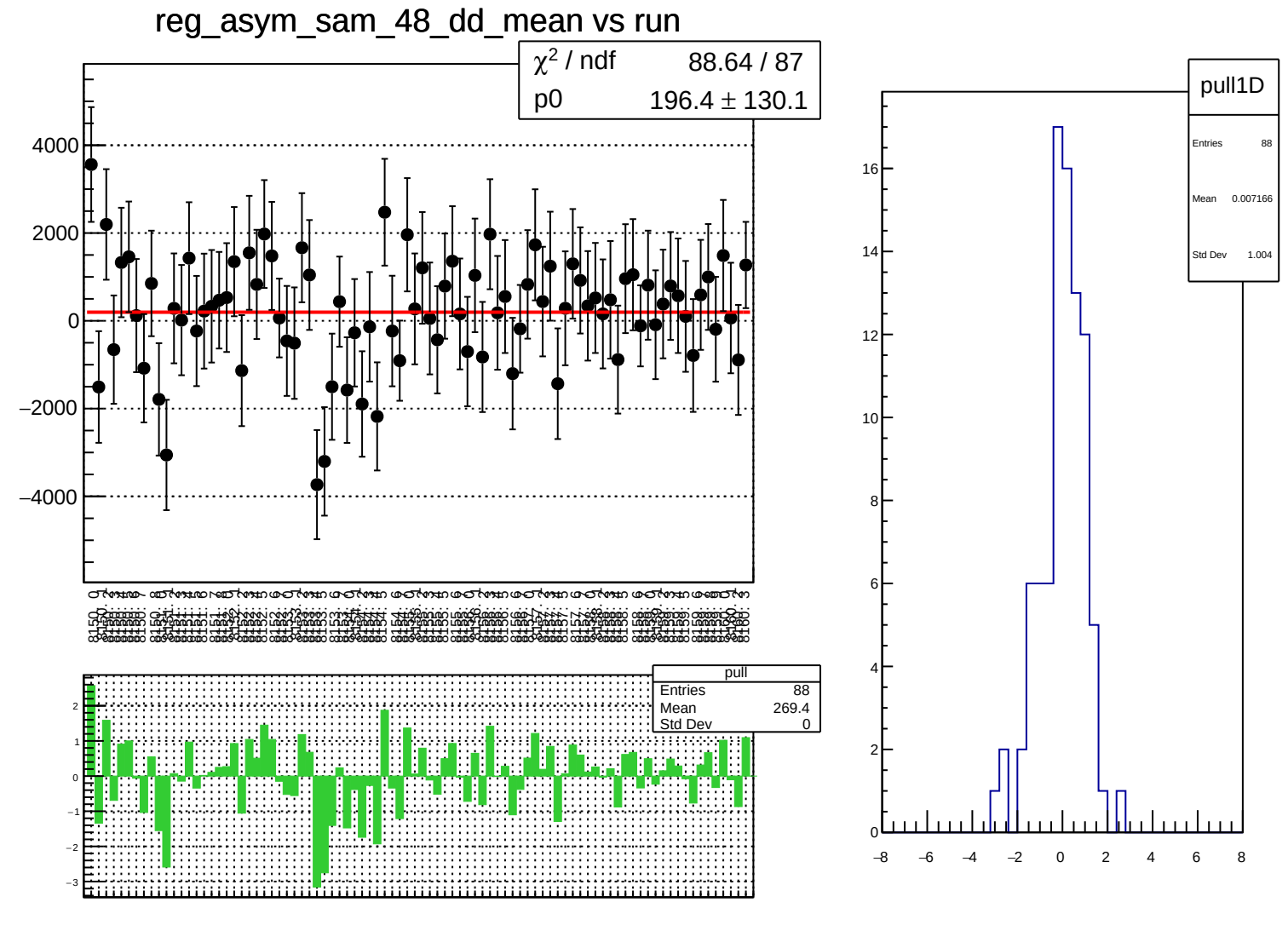

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.028e+05 / 87
p0 26.95 ± 0.02149
55
50
45
40
35
30
25
20
15

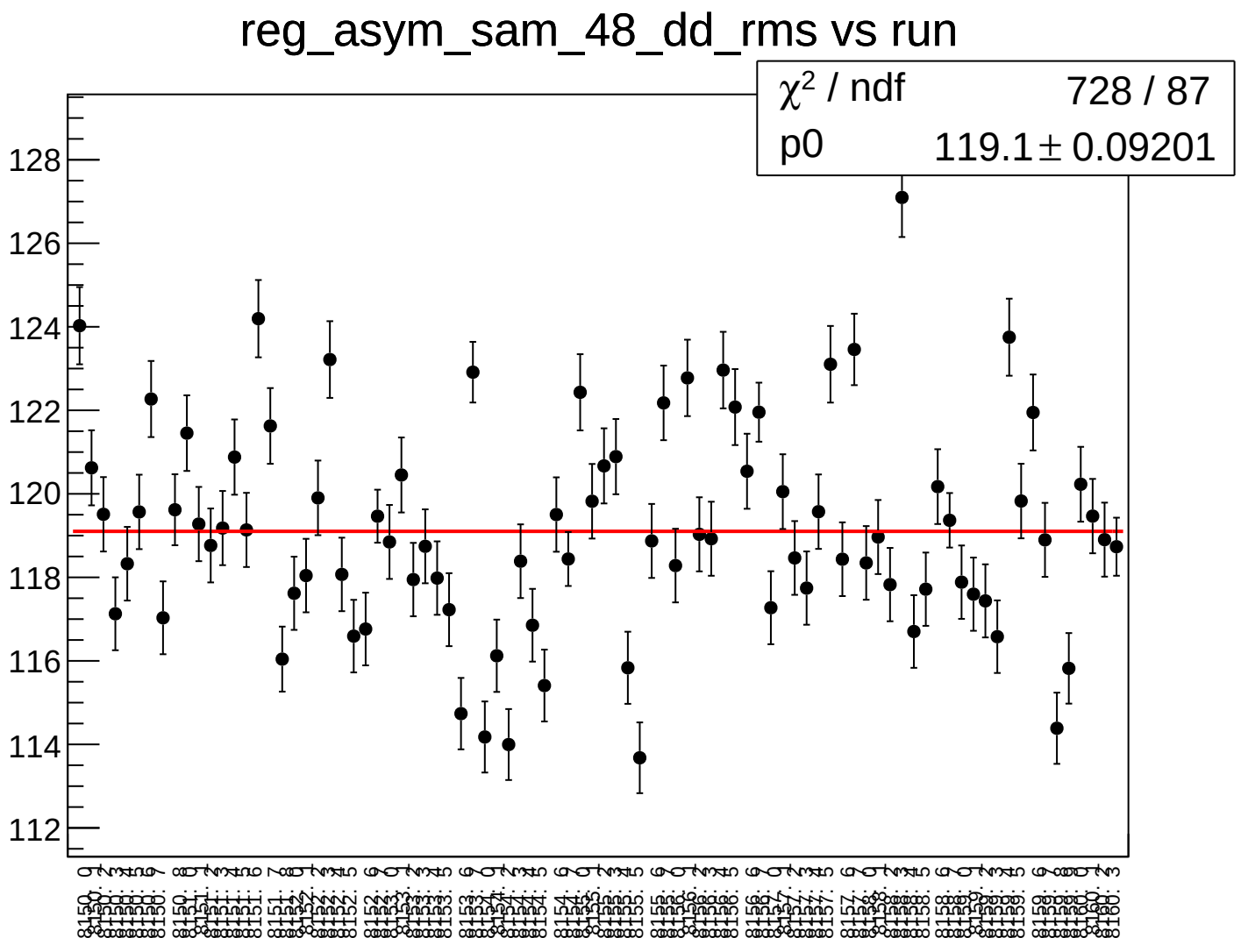

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.34 / 87
p0 −0.00241 ± 0.03039
pull
Entries 88
Mean −170.3
Std Dev 0
pull1D
Entries 88
Mean 0.01956
Std Dev 1.013

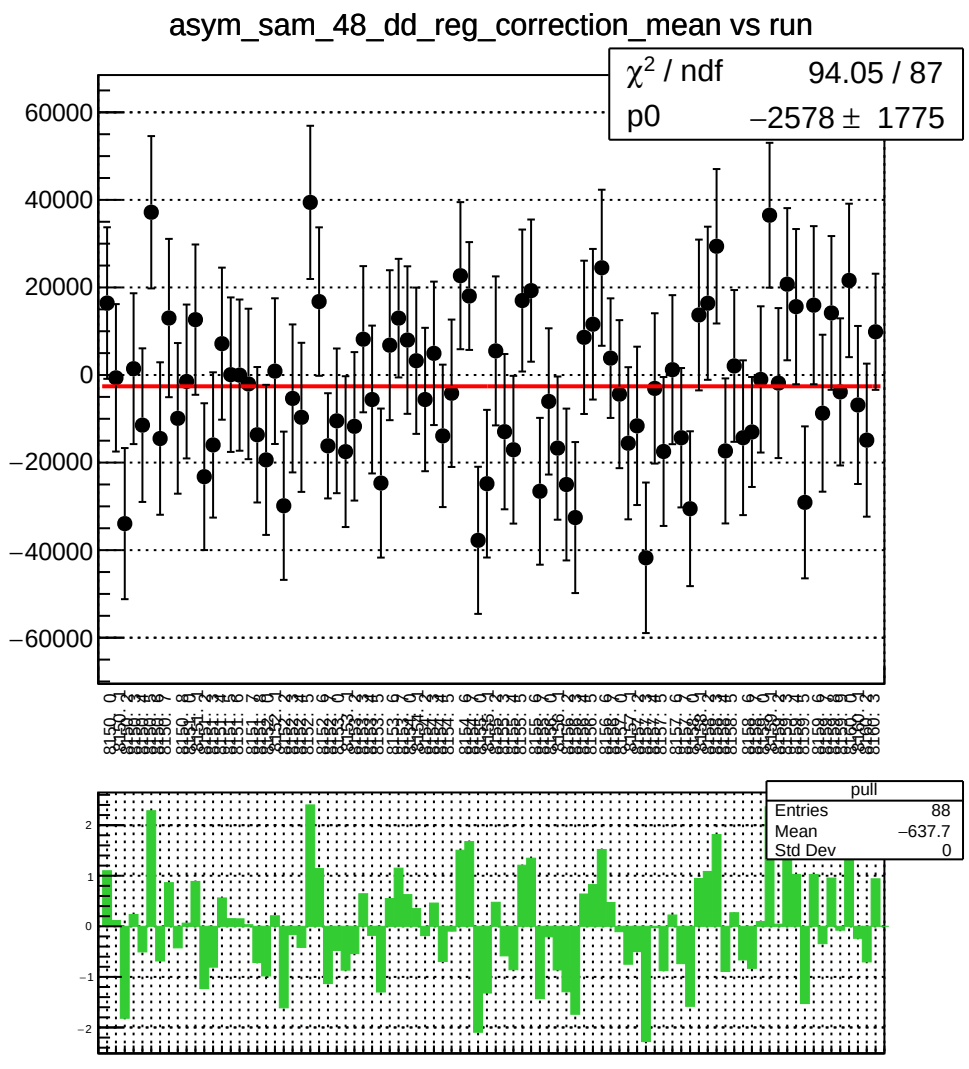

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.028e+05 / 87
p0 26.95 ± 0.02149
55
50
45
40
35
30
25
20
15

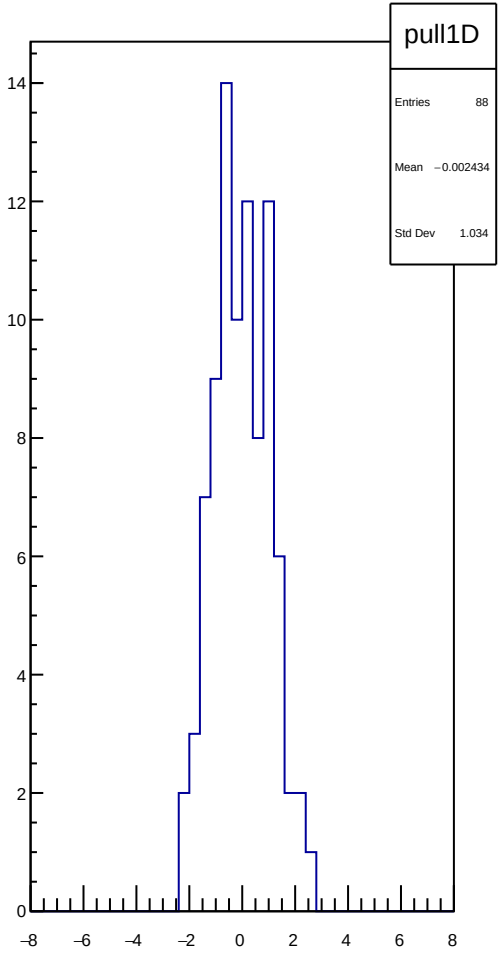

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.48 / 87
p0 −9.341e−14 ± 3.928e−14
pull
Entries 88
Mean 491.8
Std Dev 0
pull1D
Entries 88
Mean 0.005095
Std Dev 0.9383

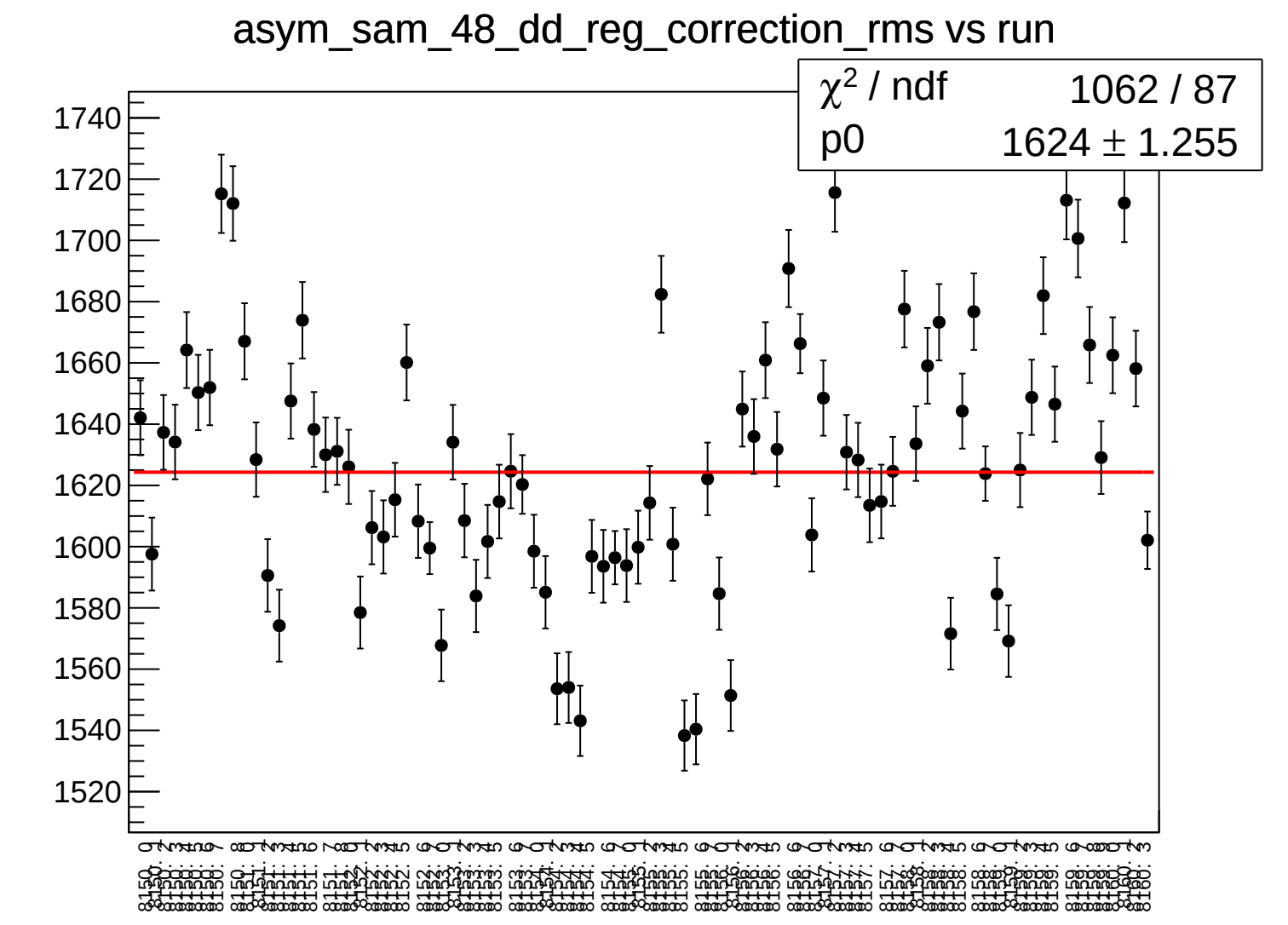

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.068e+05 / 87
p0 3.25e−11 ± 2.777e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

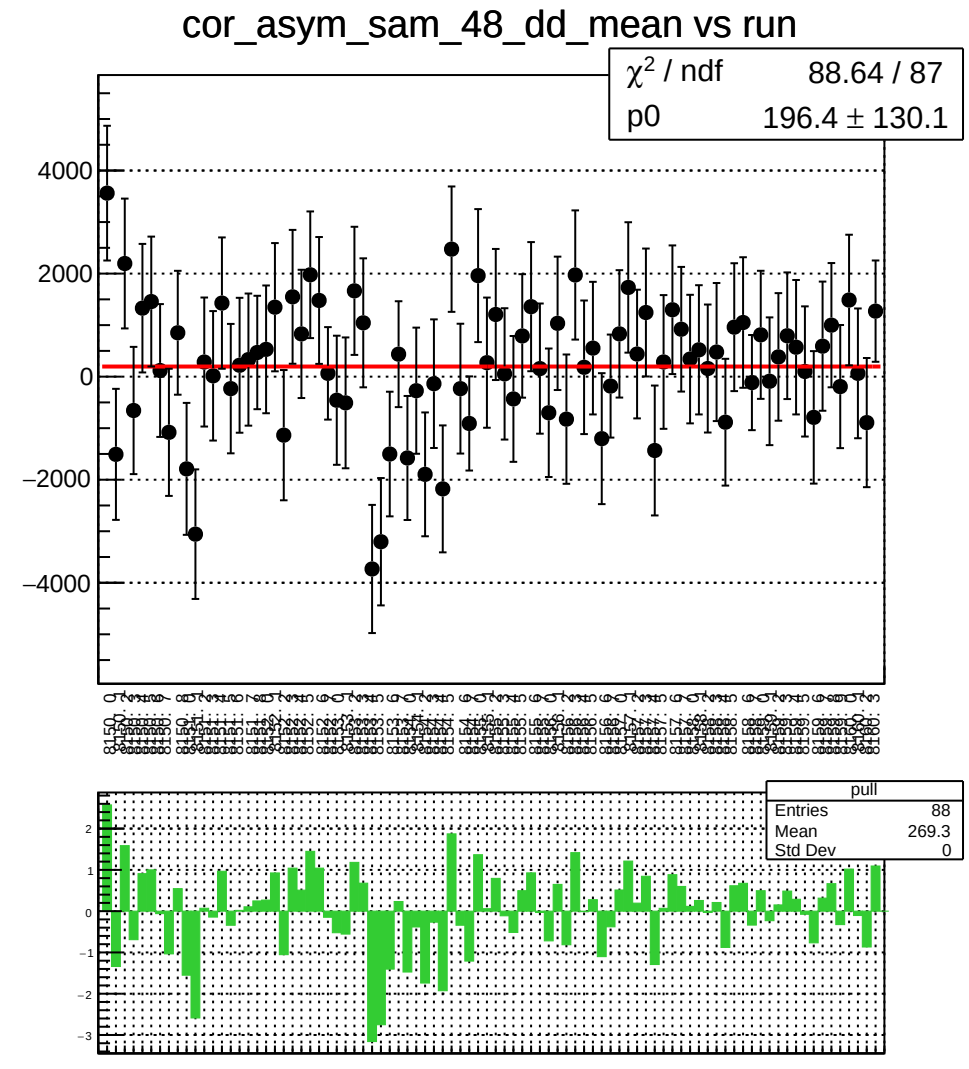

reg_asym_sam_48_dd_mean vs run
χ² / ndf 88.64 / 87
p0 196.4 ± 130.1
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 269.4
Std Dev 0
pull1D
Entries 88
Mean 0.007166
Std Dev 1.004

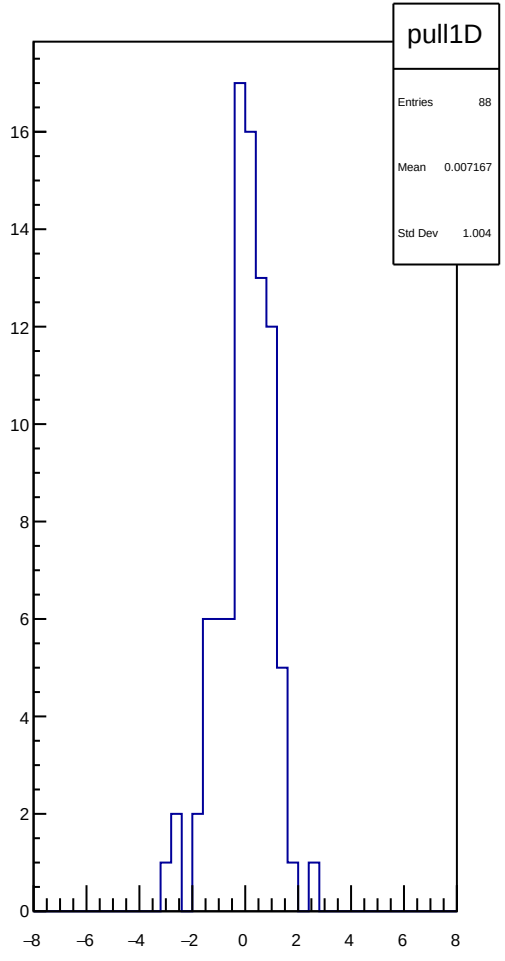

reg_asym_sam_48_dd_rms vs run
χ² / ndf 728 / 87
p0 119.1 ± 0.09201
128
126
124
122
120
118
116
114
112

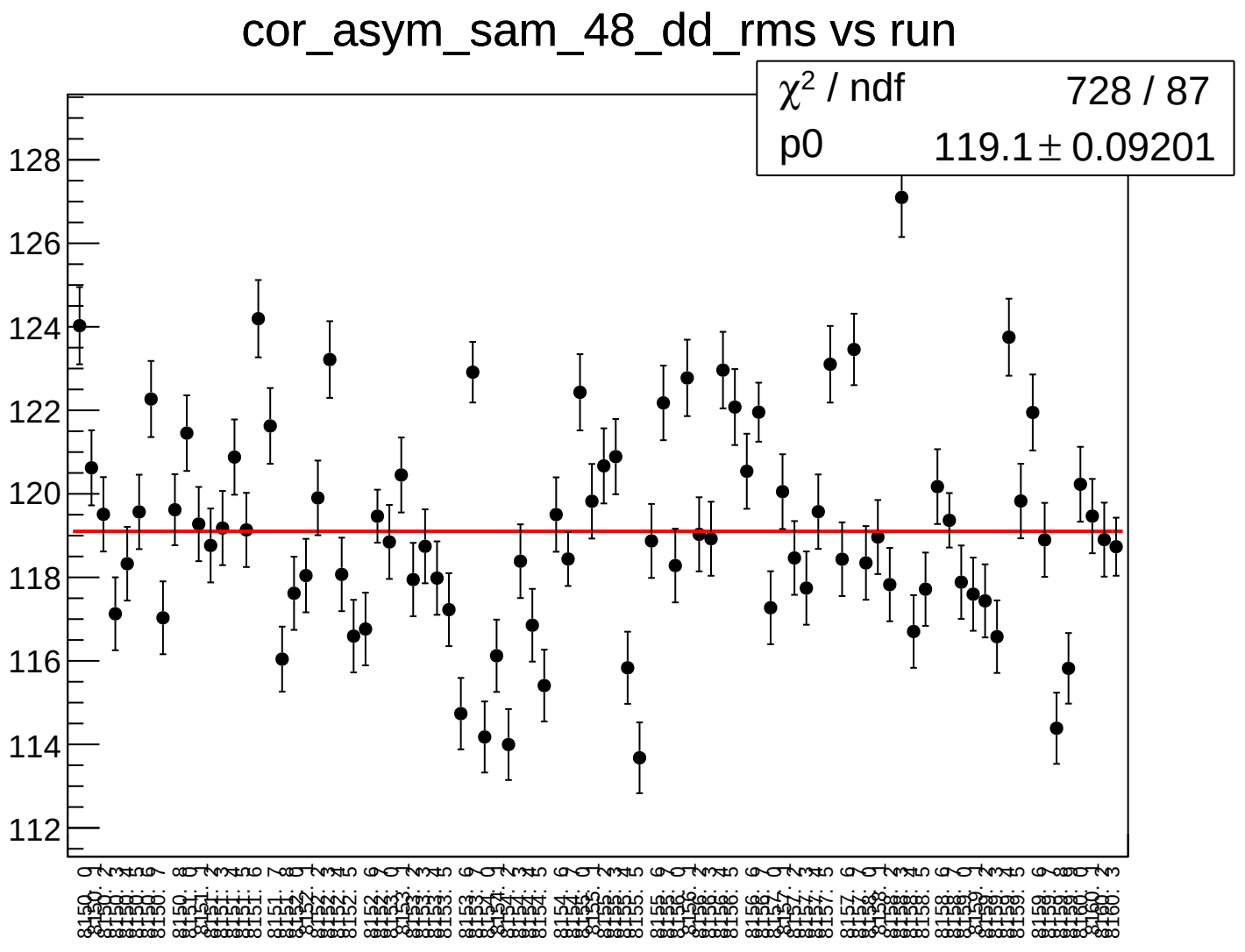

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 94.05 / 87
p0 −2578 ± 1775
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −637.7
Std Dev 0
2
1
0
−1
−2

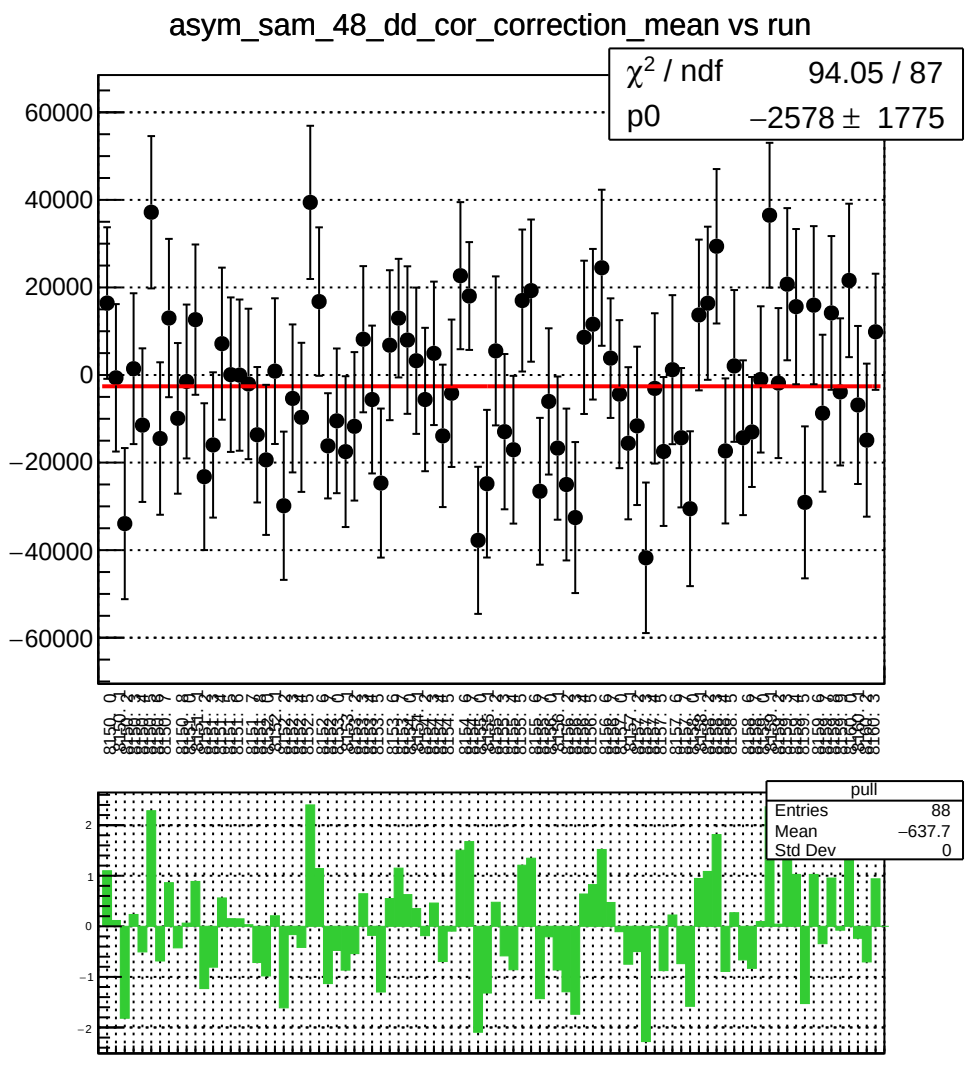

pull1D
Entries 88
Mean −0.002434
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

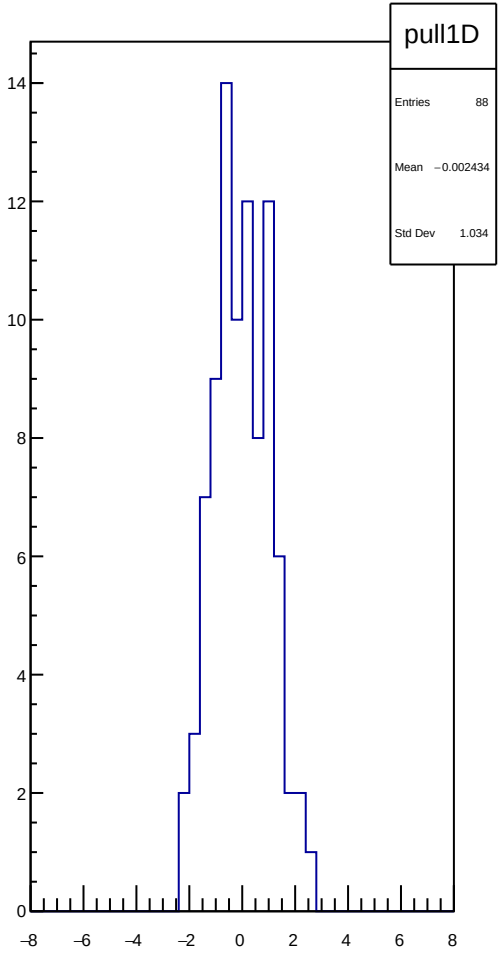

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 1062 / 87
p0 1624 ± 1.255
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520


cor_asym_sam_48_dd_mean vs run
χ² / ndf 88.64 / 87
p0 196.4 ± 130.1
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 269.3
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean 0.007167
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_48_dd_rms vs run
χ² / ndf 728 / 87
p0 119.1 ± 0.09201
128
126
124
122
120
118
116
114
112


asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 94.05 / 87
p0 −2578 ± 1775
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −637.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.002434
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
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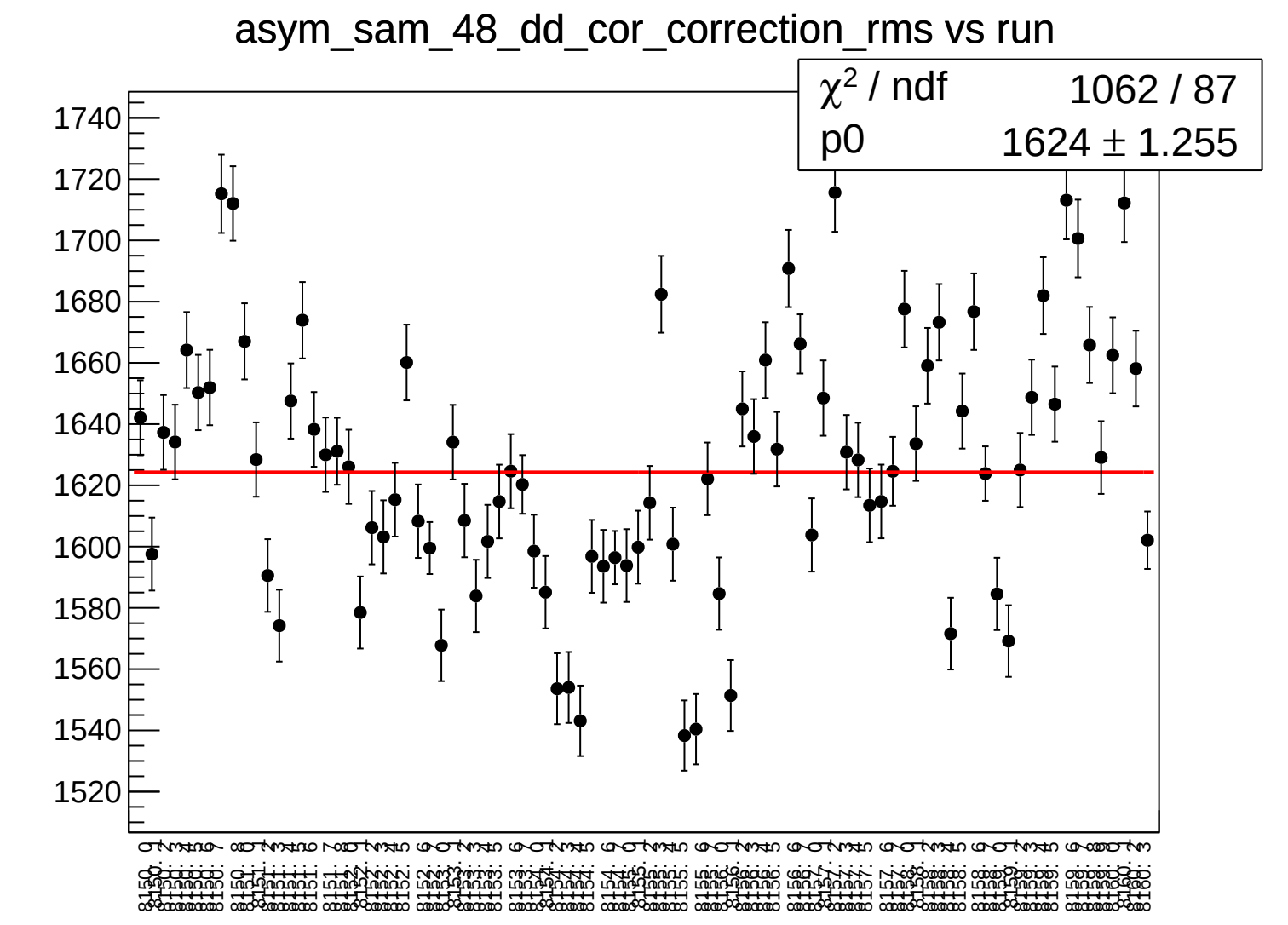
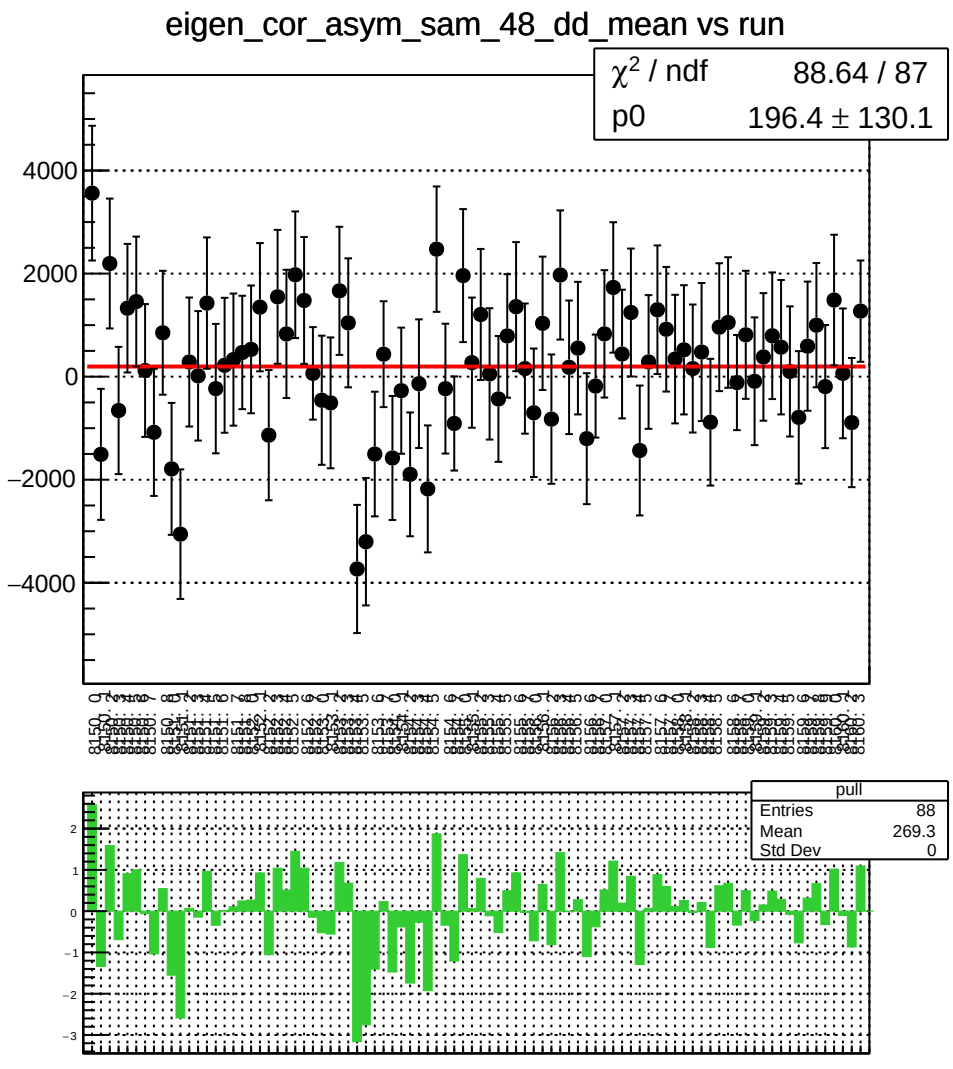
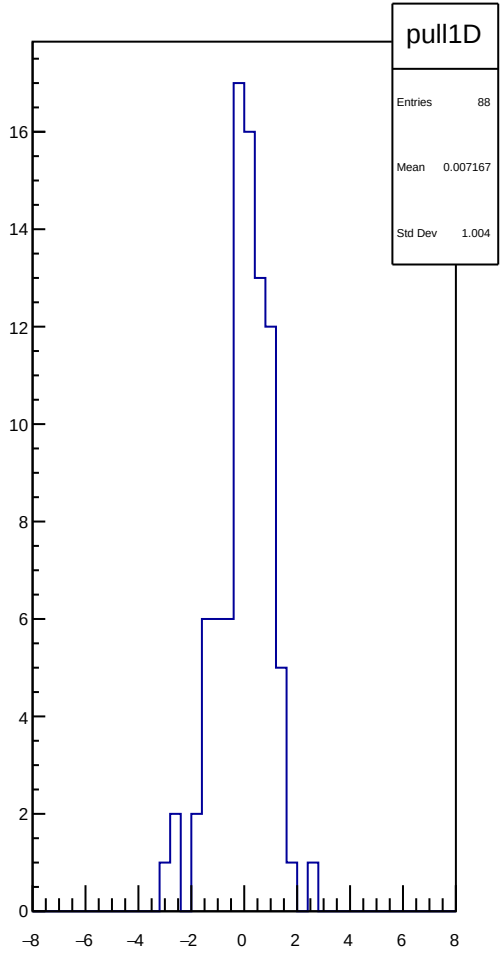
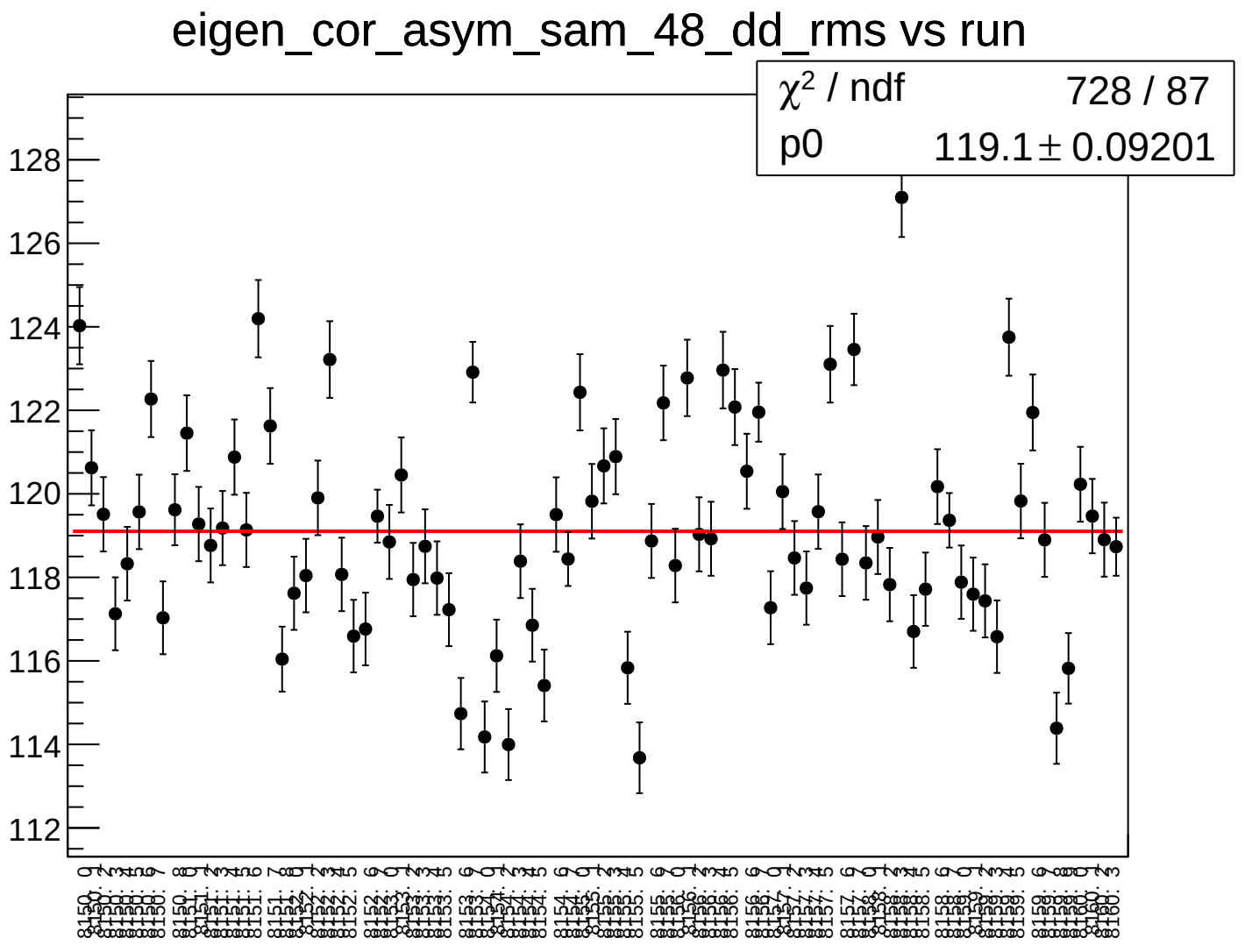
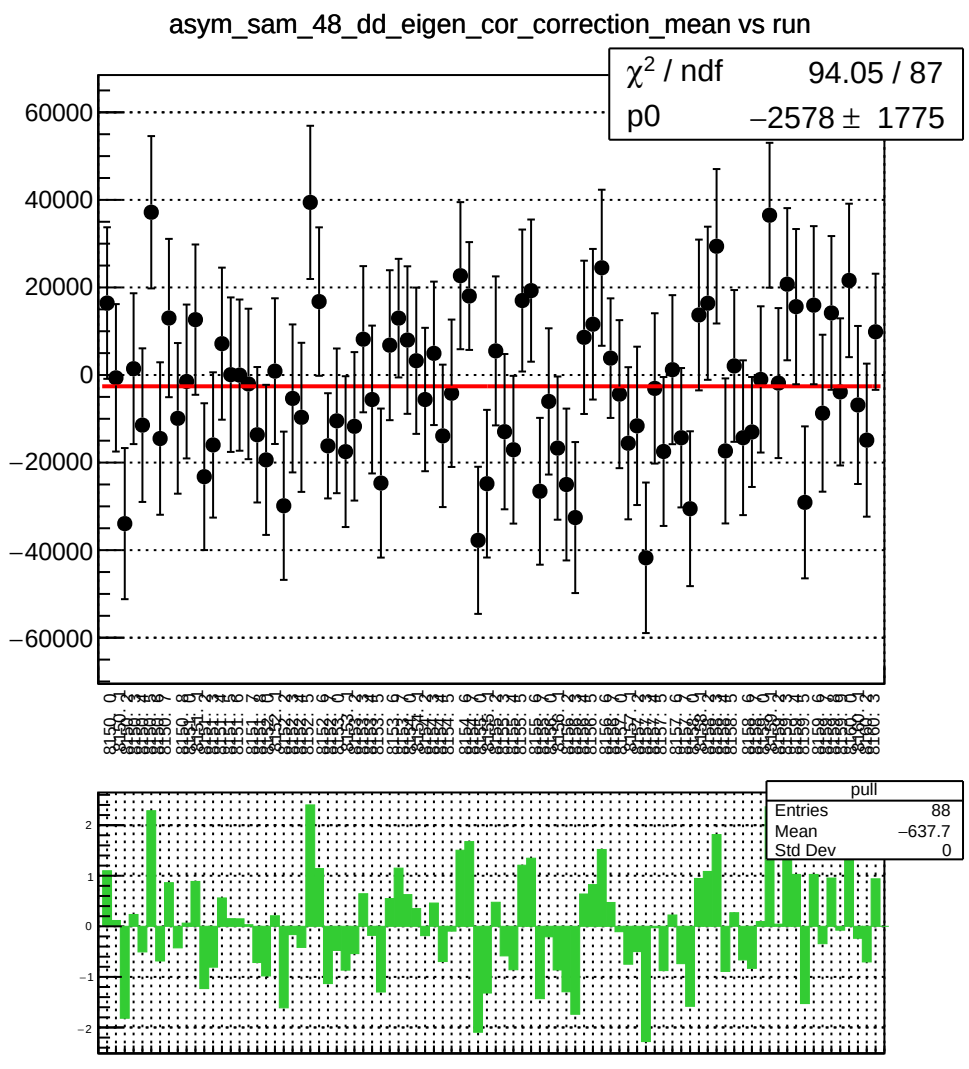
0
2
4
6
8

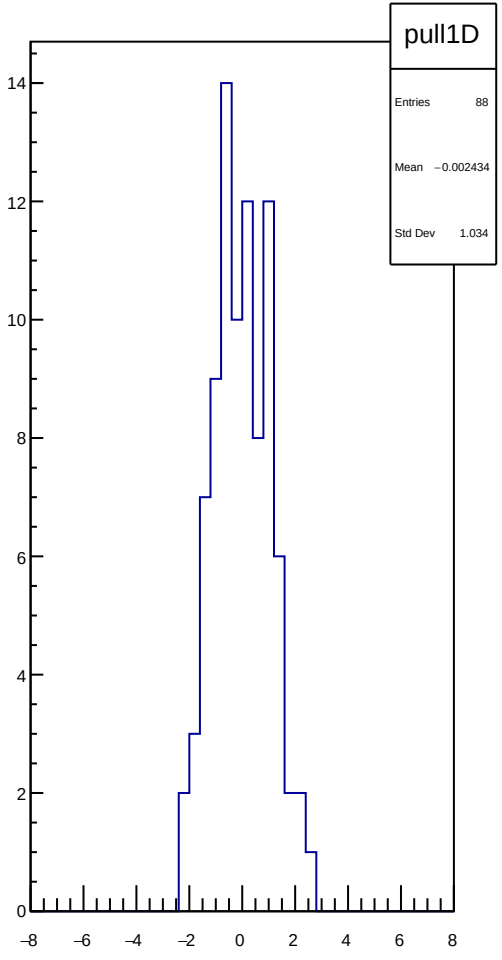

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1062 / 87
p0 1624 ± 1.255
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

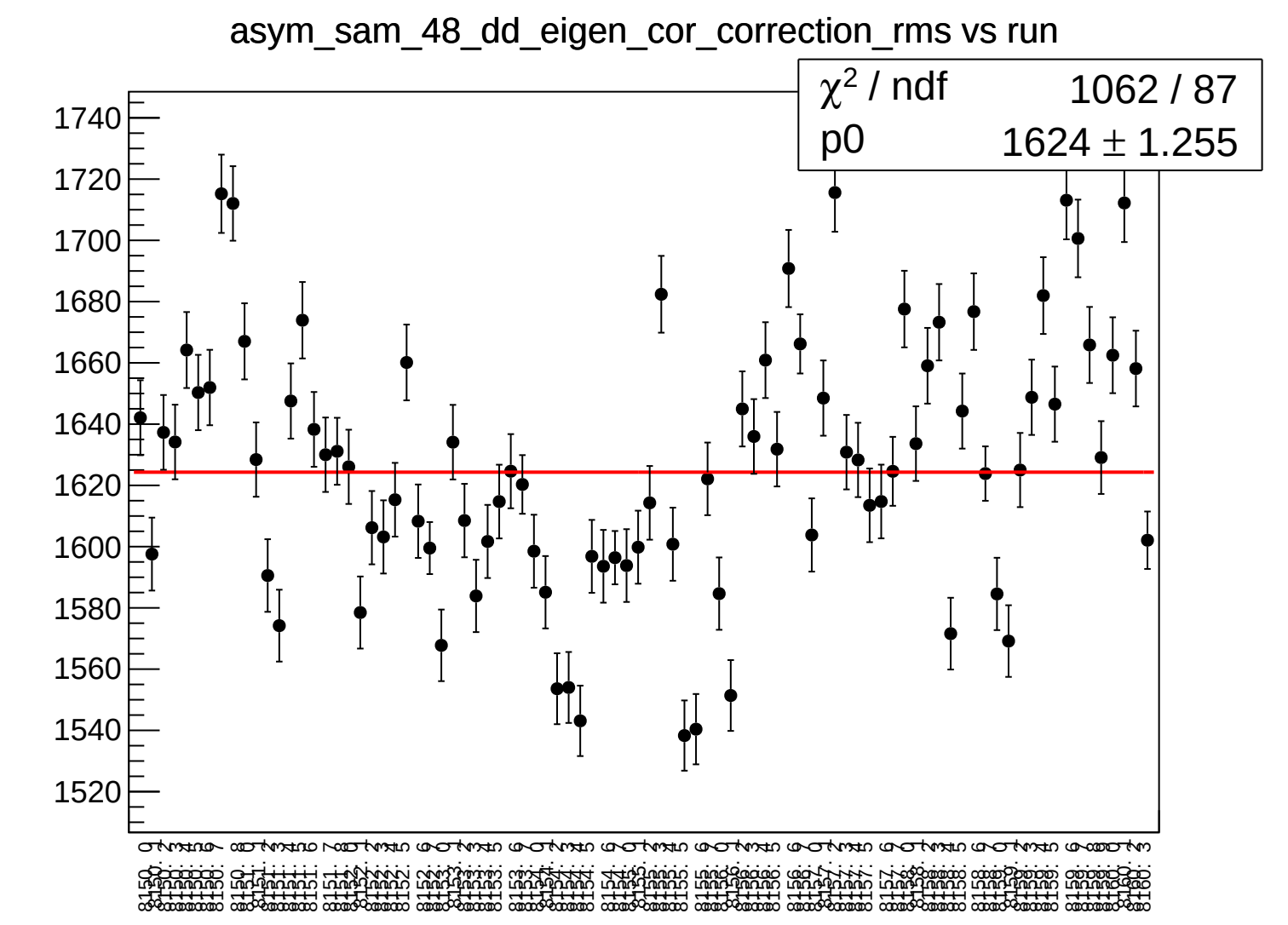

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 88.64 / 87
p0 196.4 ± 130.1
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 269.3
Std Dev 0
2
1
0
−1
−2
−3

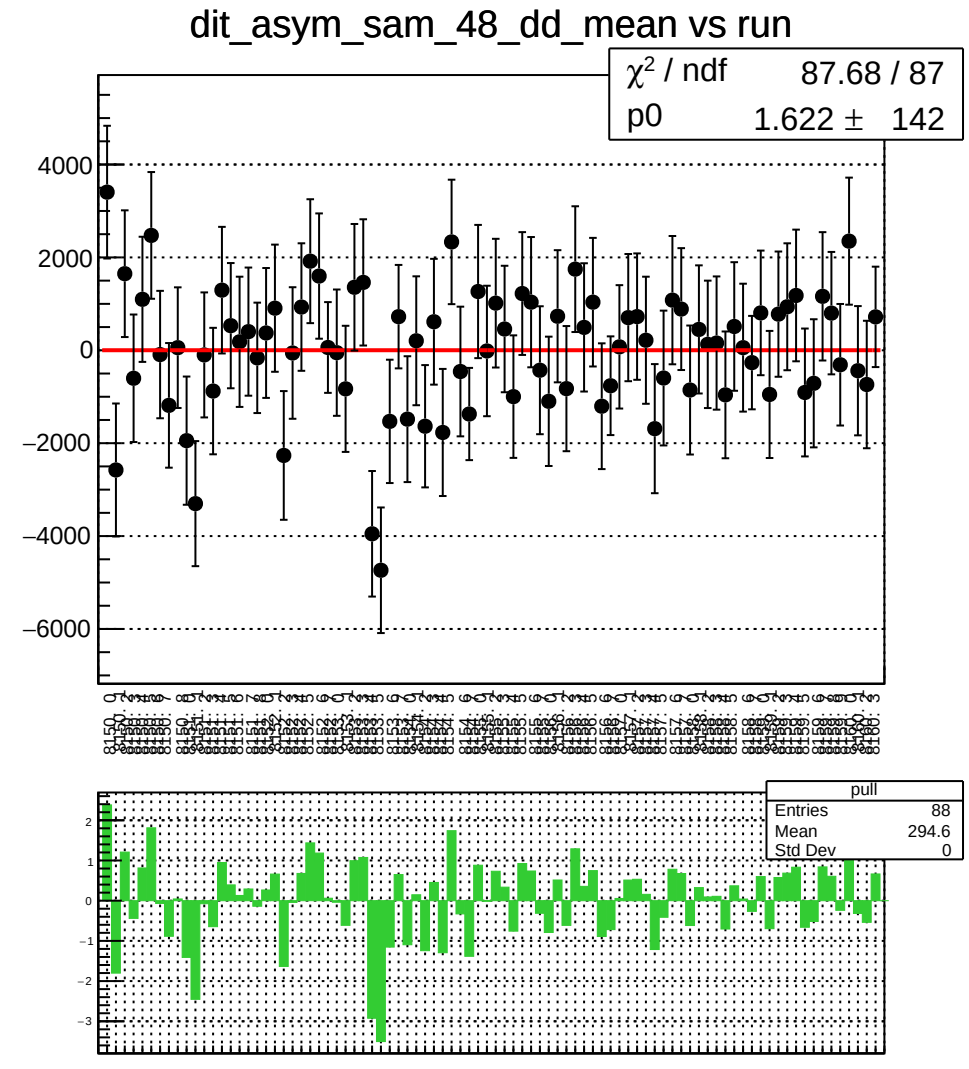

pull1D
Entries 88
Mean 0.007167
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

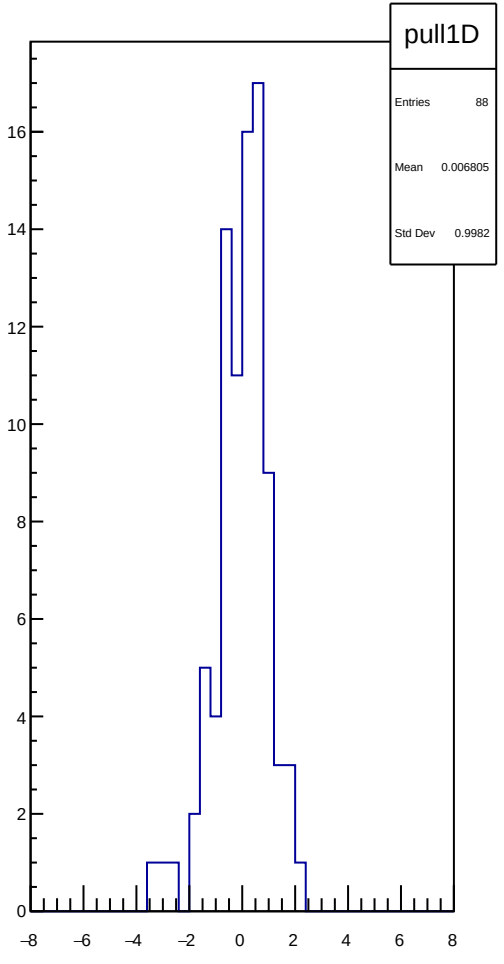

eigen_cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 728 / 87
p0 119.1 ± 0.09201
128
126
124
122
120
118
116
114
112

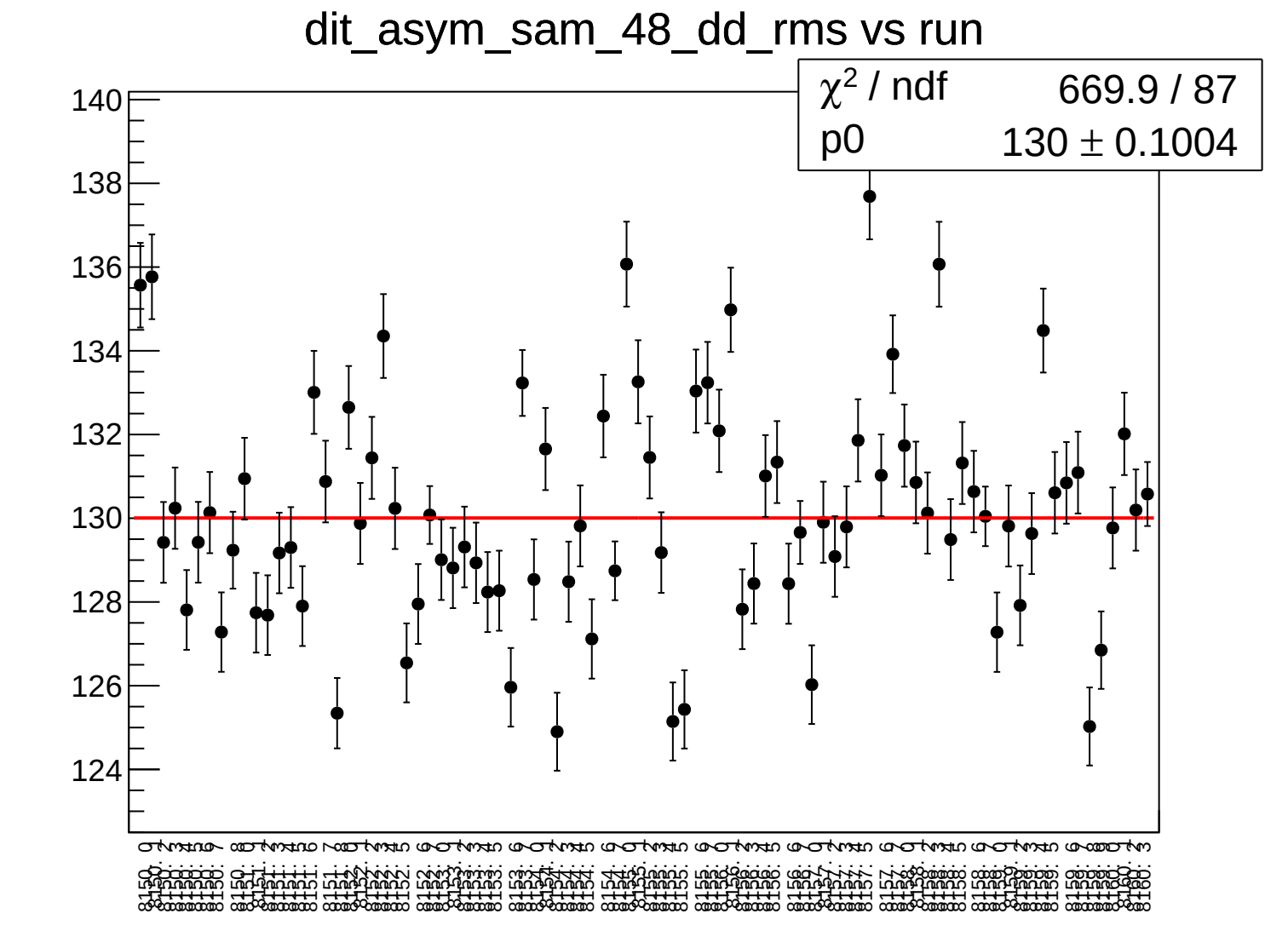

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.05 / 87
p0 −2578 ± 1775
pull
Entries 88
Mean −637.7
Std Dev 0

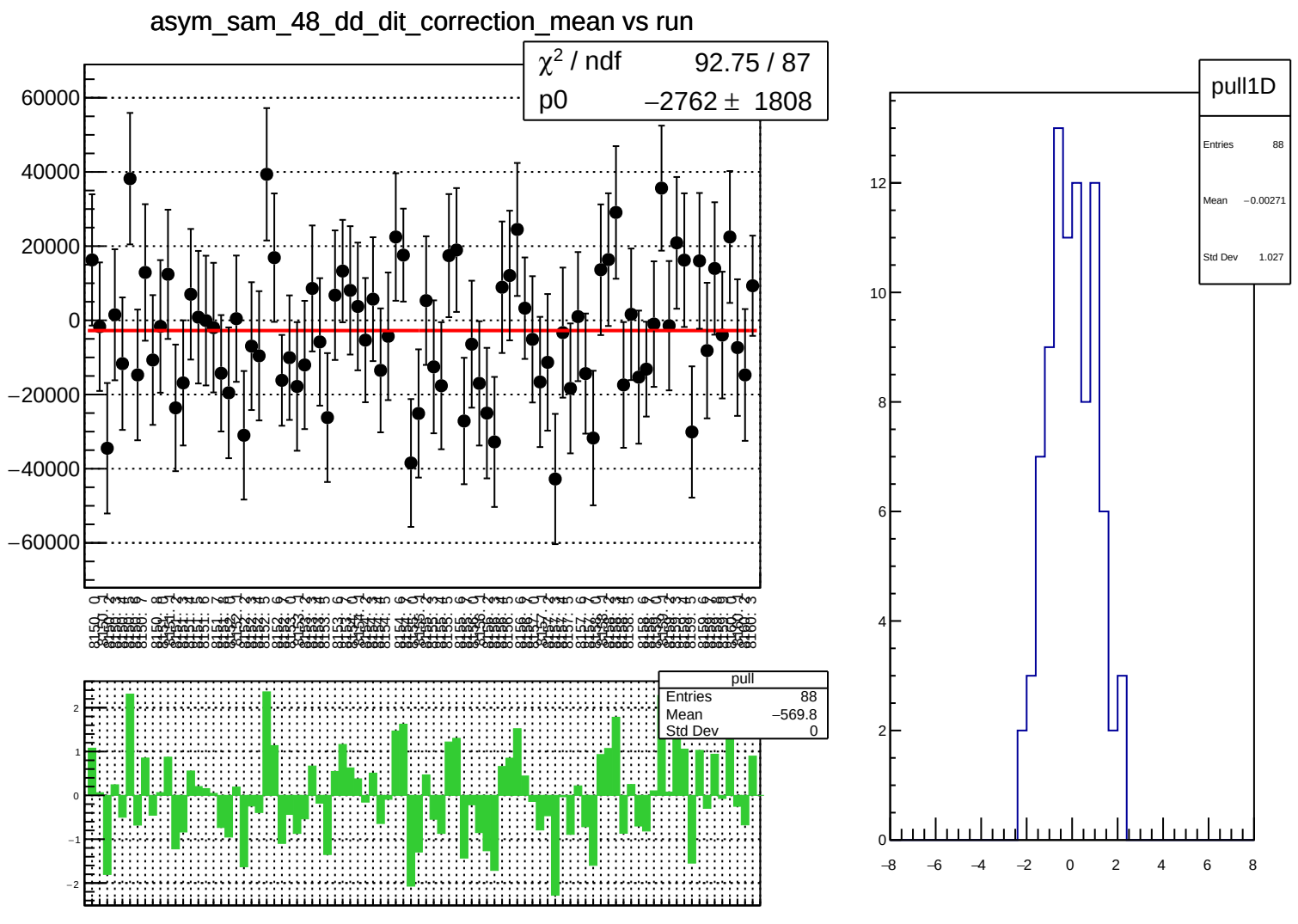

pull1D
Entries 88
Mean −0.002434
Std Dev 1.034

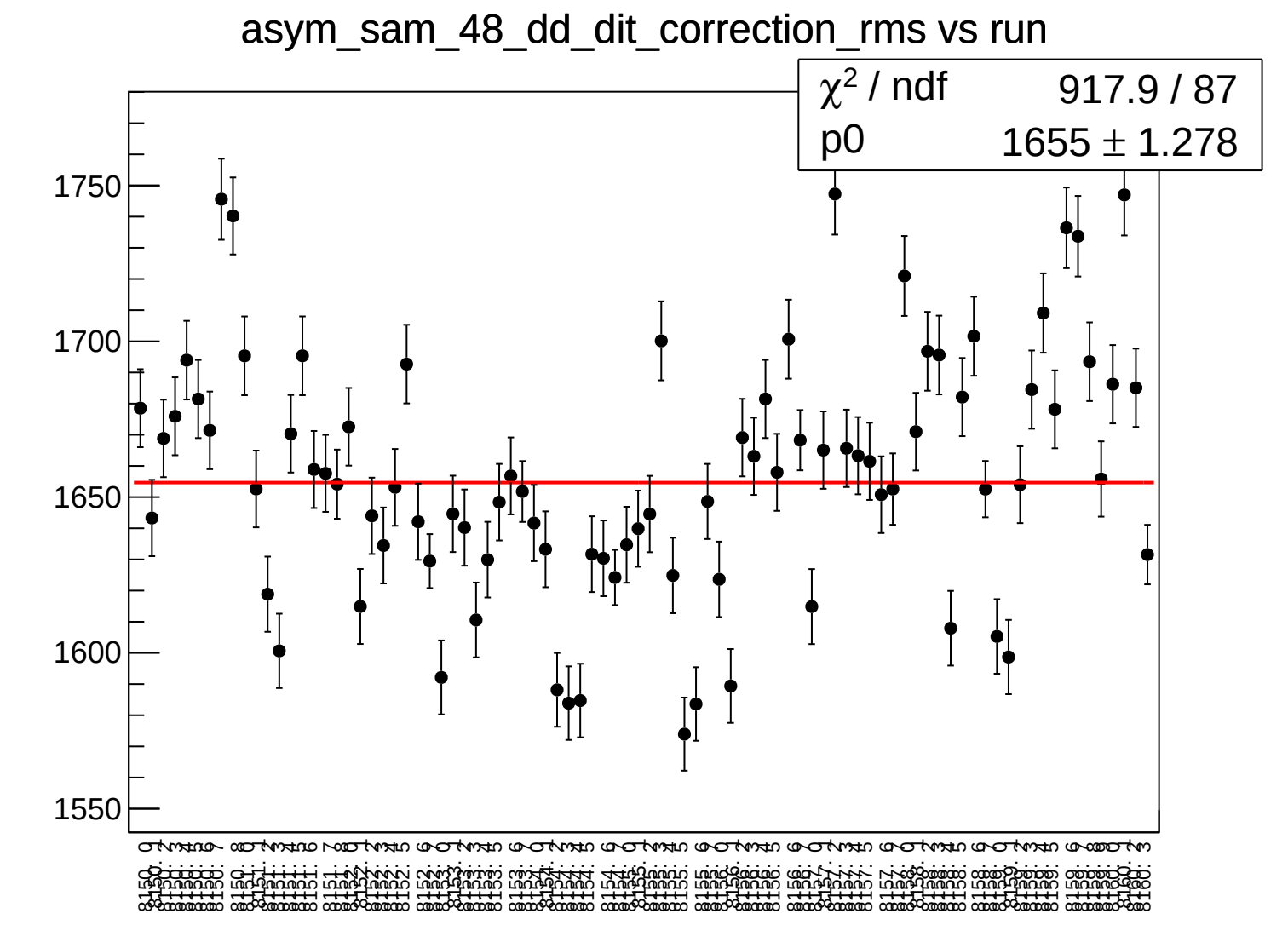

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 1062 / 87
p0 1624 ± 1.255
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

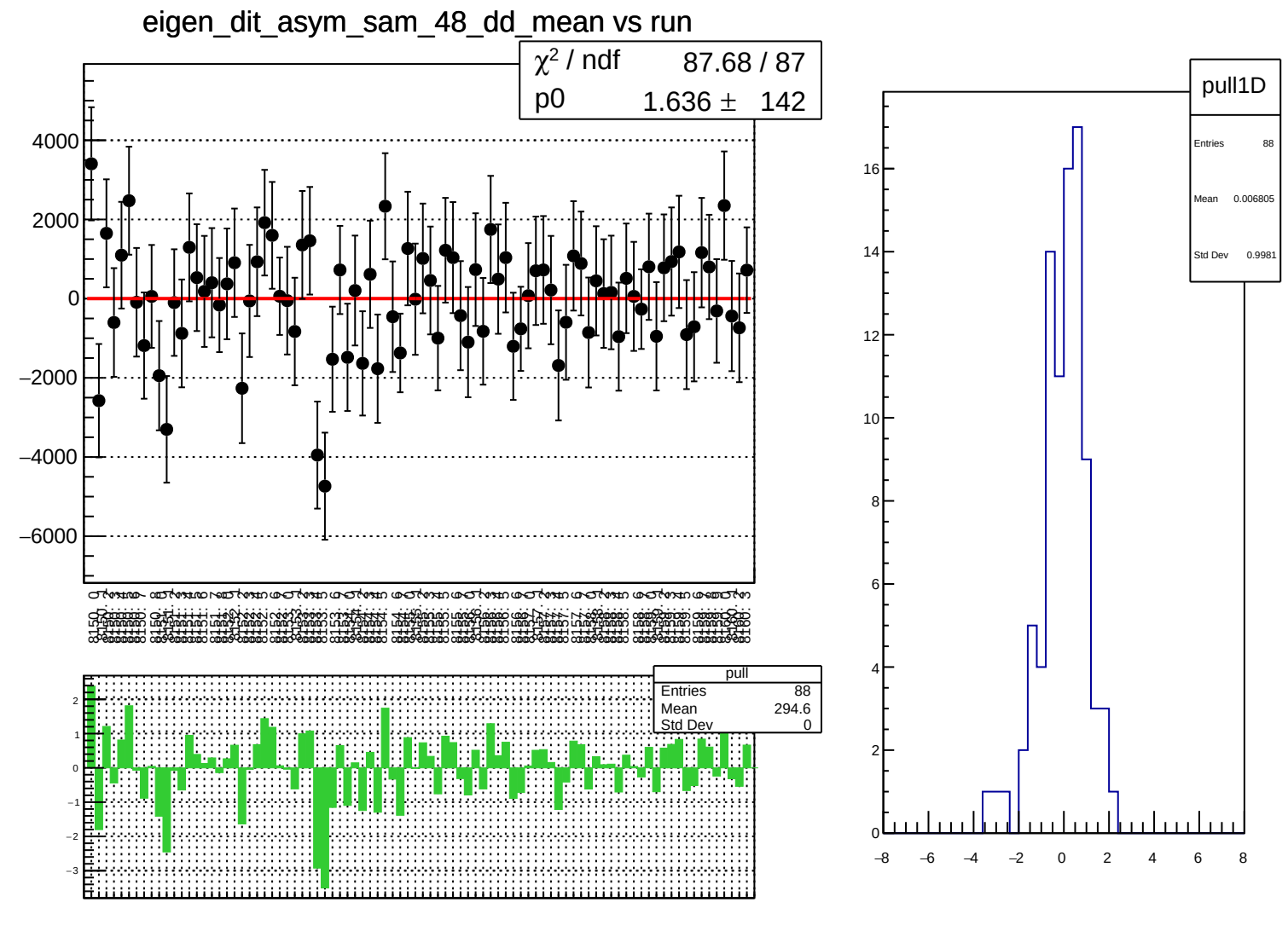

dit_asym_sam_48_dd_mean vs run
χ² / ndf 87.68 / 87
p0 1.622 ± 142
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 294.6
Std Dev 0
2
1
0
−1
−2
−3

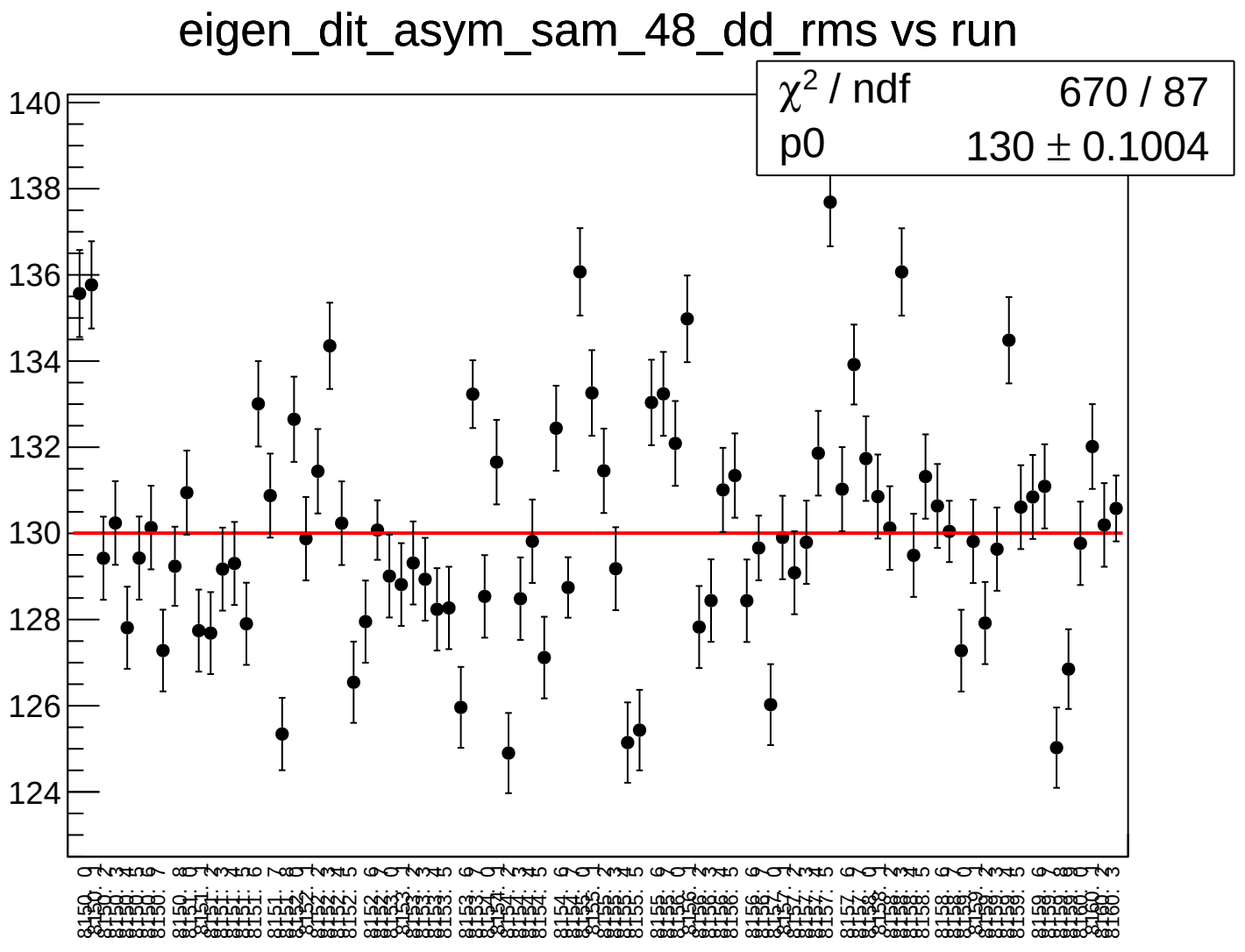

pull1D
Entries 88
Mean 0.006805
Std Dev 0.9982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

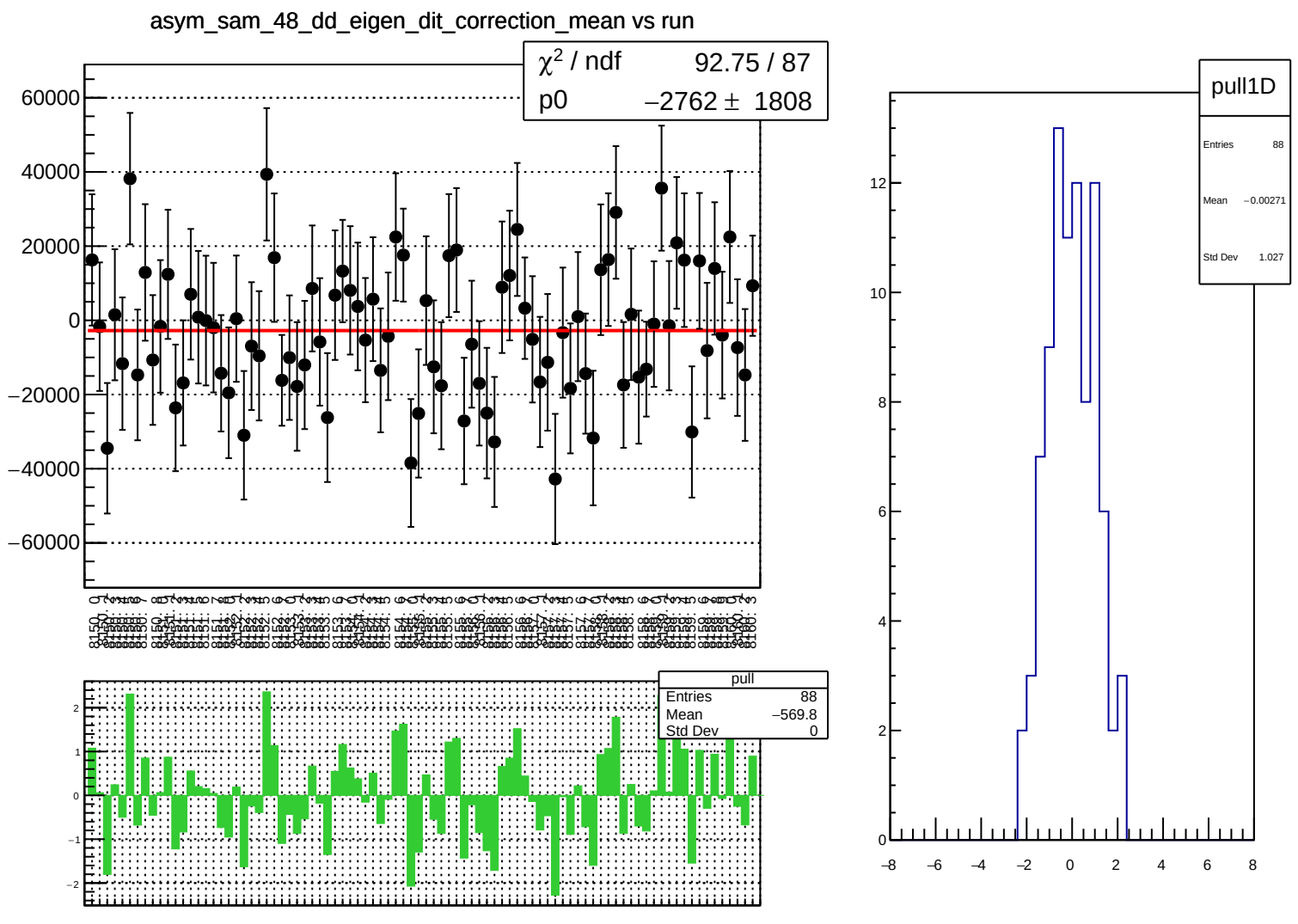

dit_asym_sam_48_dd_rms vs run
χ² / ndf 669.9 / 87
p0 130 ± 0.1004
140
138
136
134
132
130
128
126
124

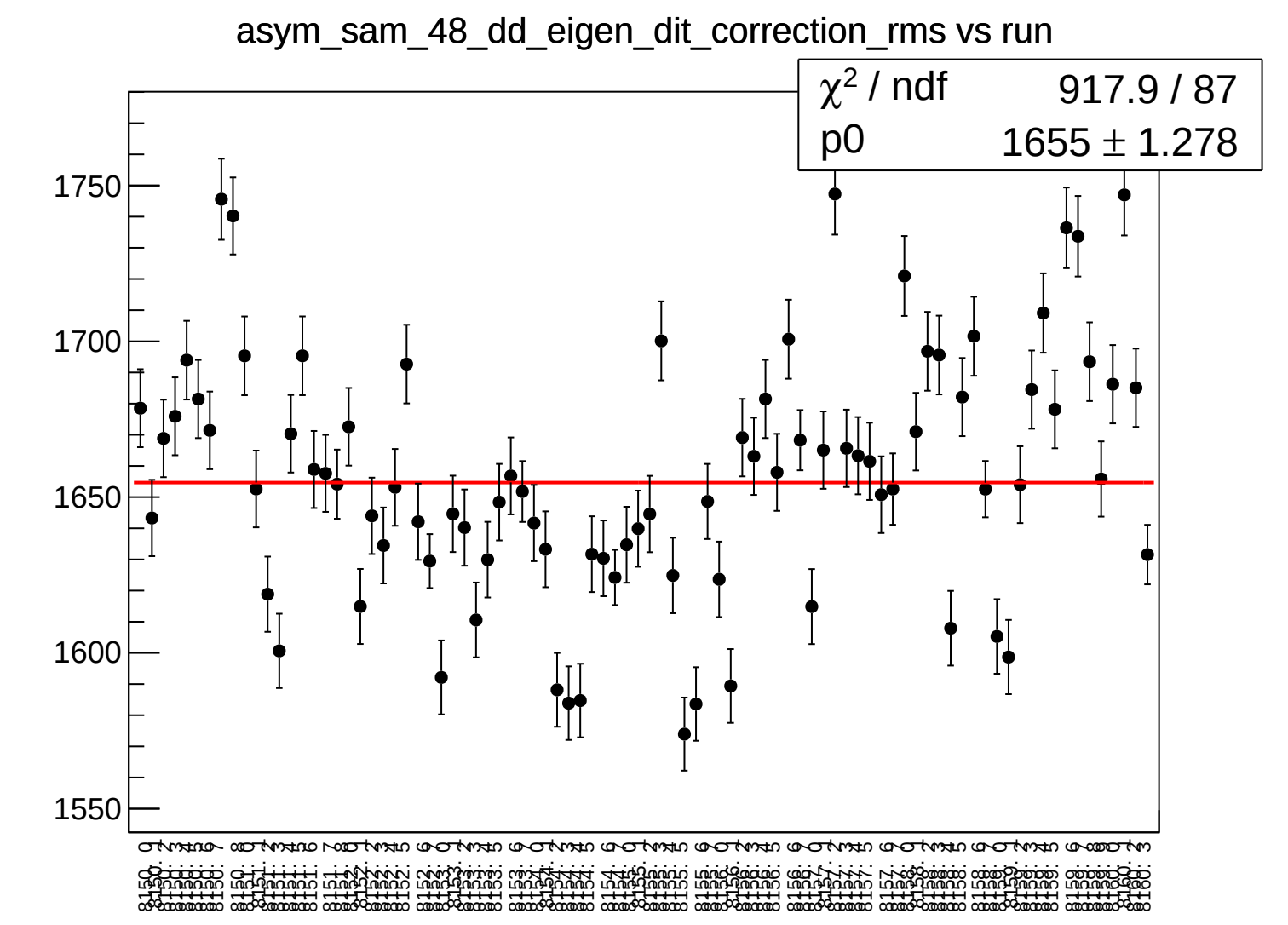

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 92.75 / 87
p0 −2762 ± 1808
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −569.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00271
Std Dev 1.027
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

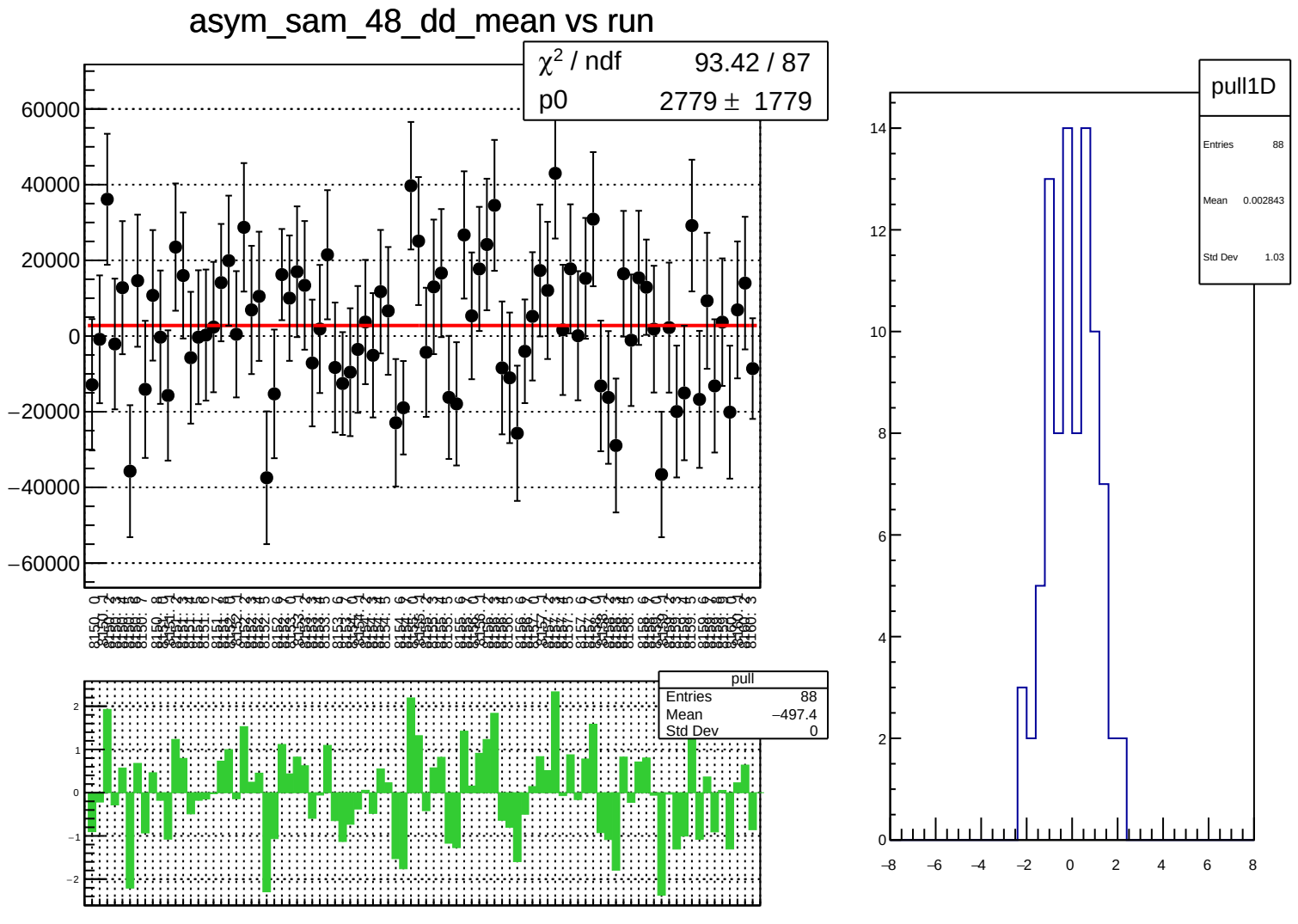

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 917.9 / 87
p0 1655 ± 1.278
1750
1700
1650
1600
1550

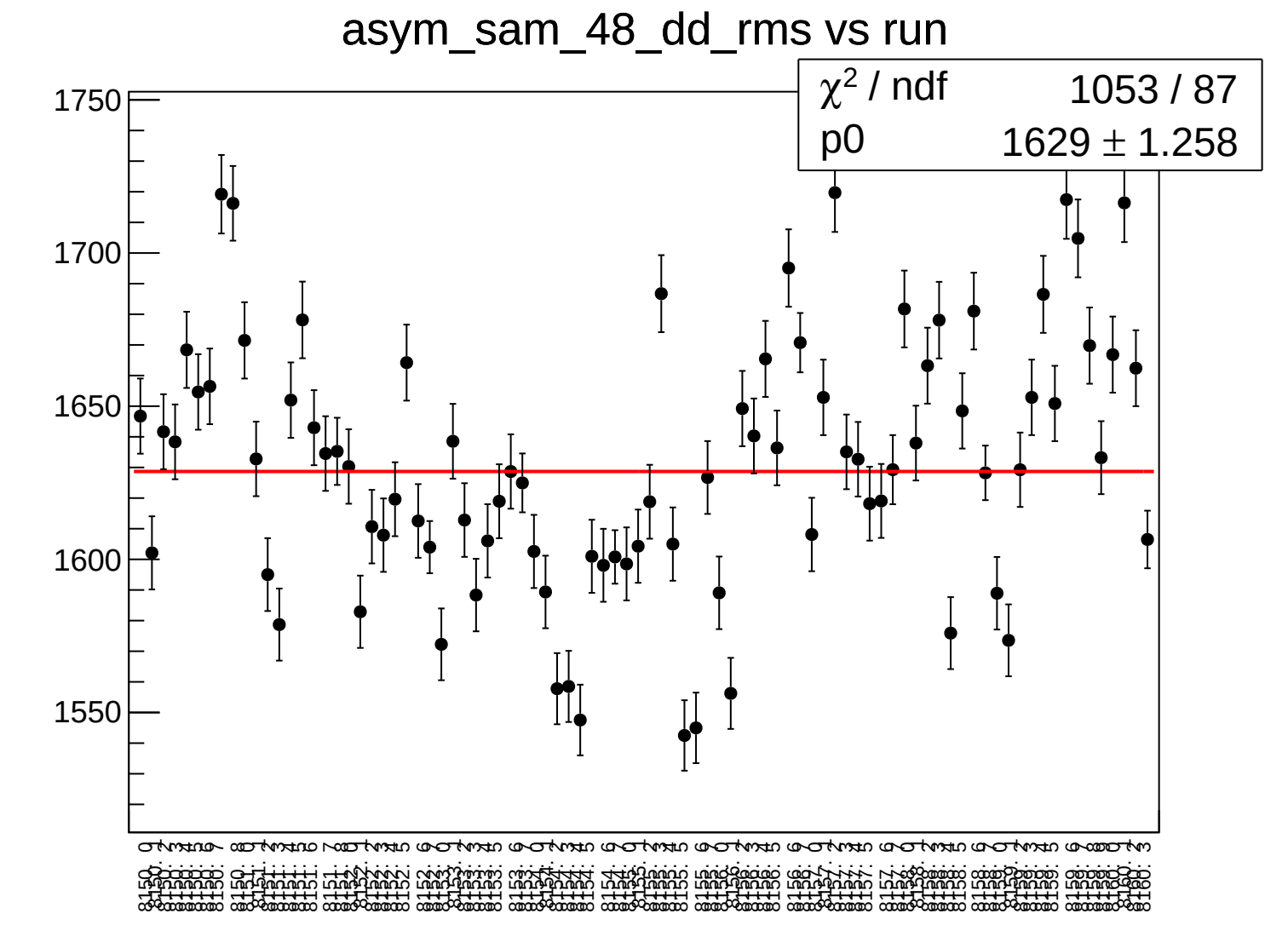

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 87.68 / 87
p0 1.636 ± 142
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 294.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.006805
Std Dev 0.9981
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

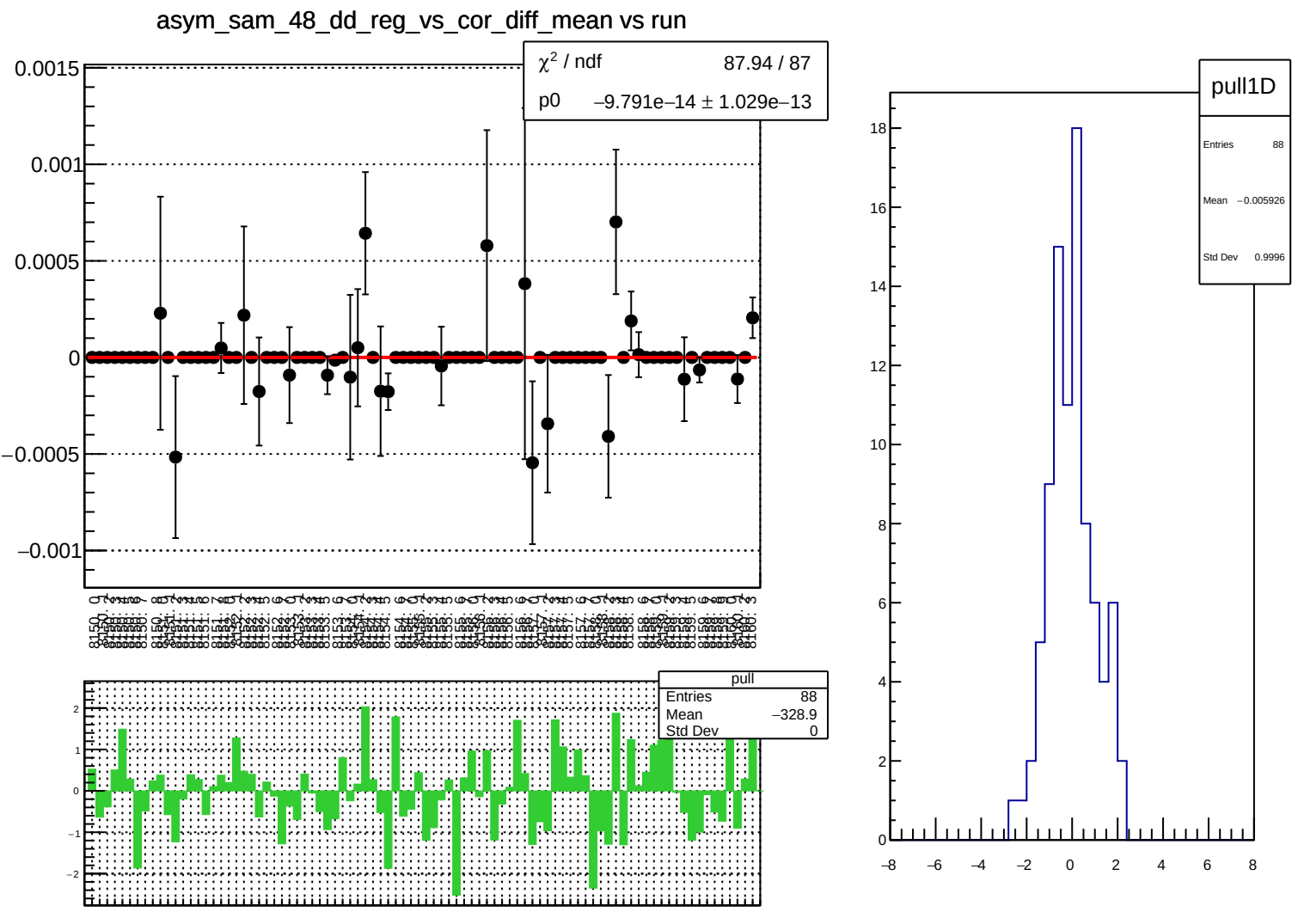

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 670 / 87
p0 130 ± 0.1004
140
138
136
134
132
130
128
126
124

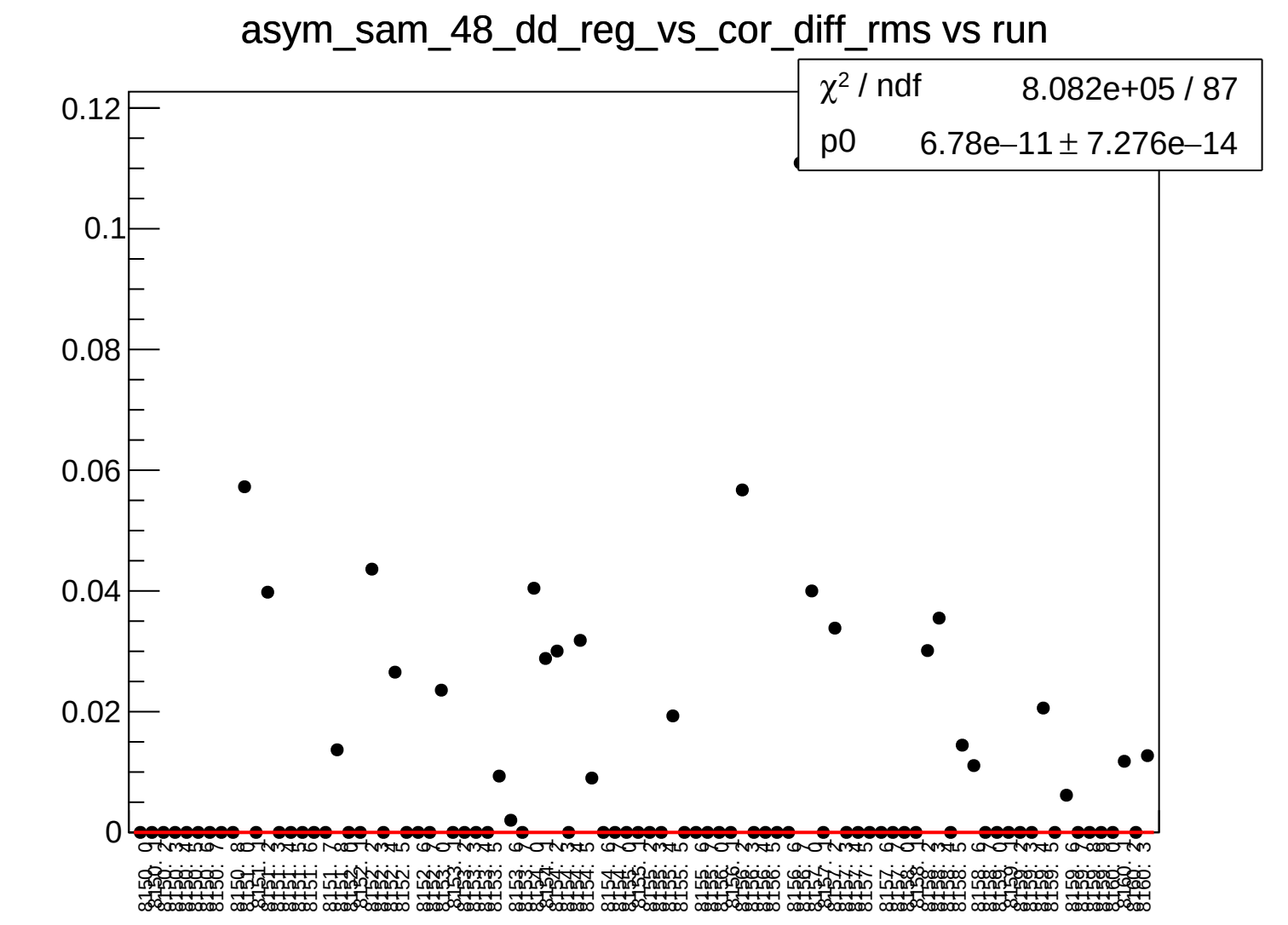

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.75 / 87
p0 −2762 ± 1808
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −569.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00271
Std Dev 1.027
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

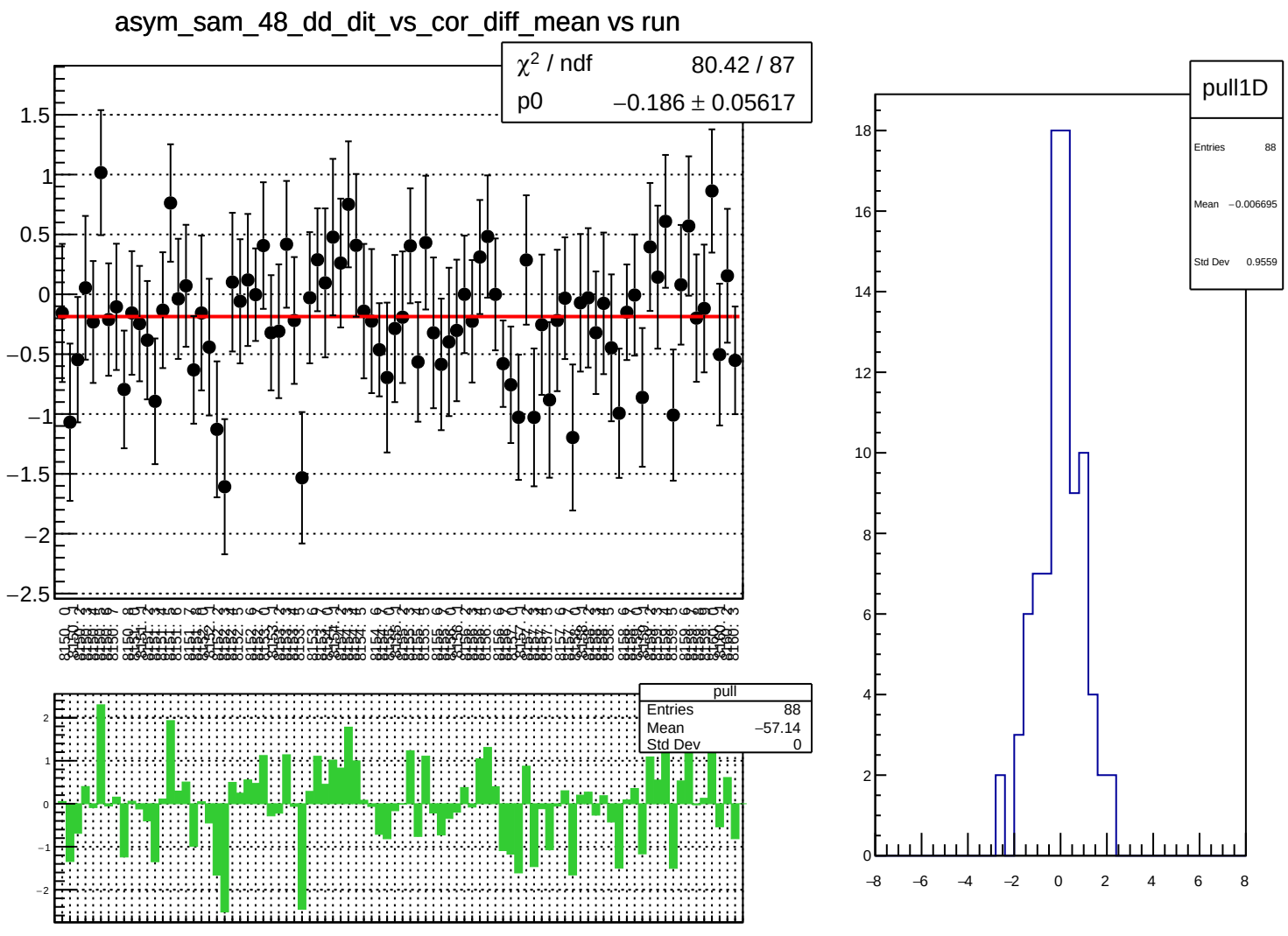

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 917.9 / 87
p0 1655 ± 1.278
1750
1700
1650
1600
1550

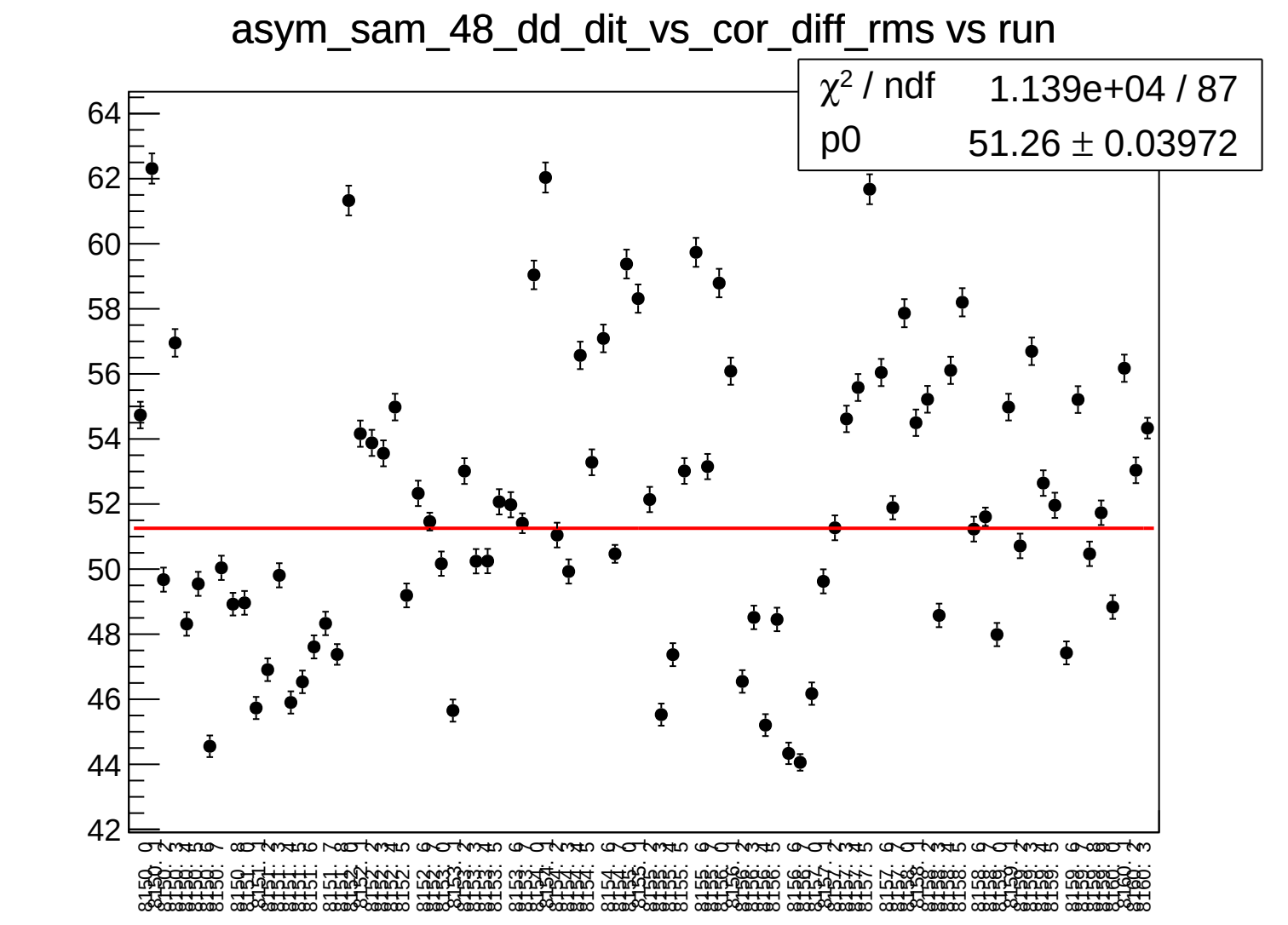

asym_sam_48_dd_mean vs run
χ² / ndf 93.42 / 87
p0 2779 ± 1779
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −497.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.002843
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

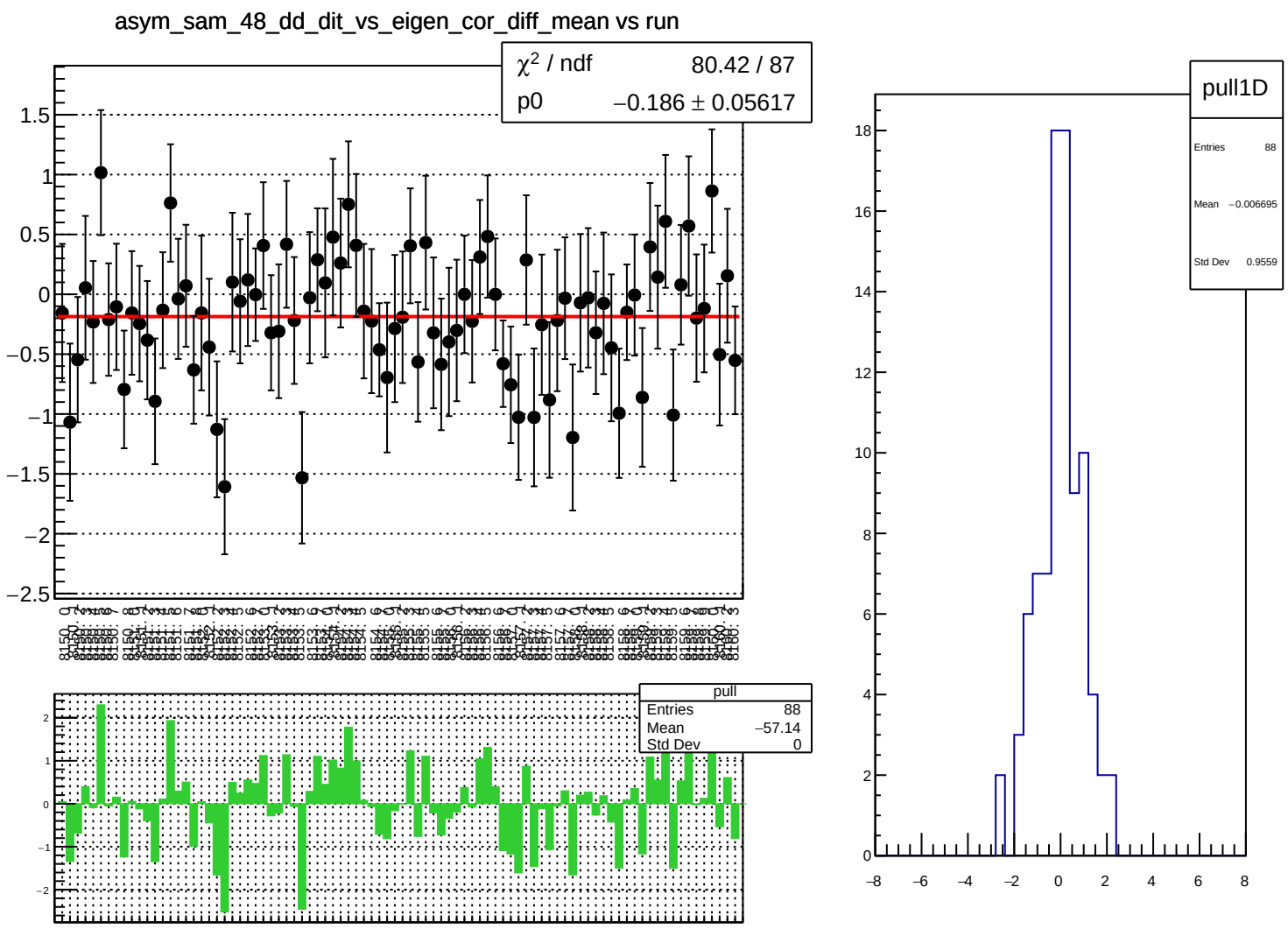

asym_sam_48_dd_rms vs run
χ² / ndf 1053 / 87
p0 1629 ± 1.258
1750
1700
1650
1600
1550

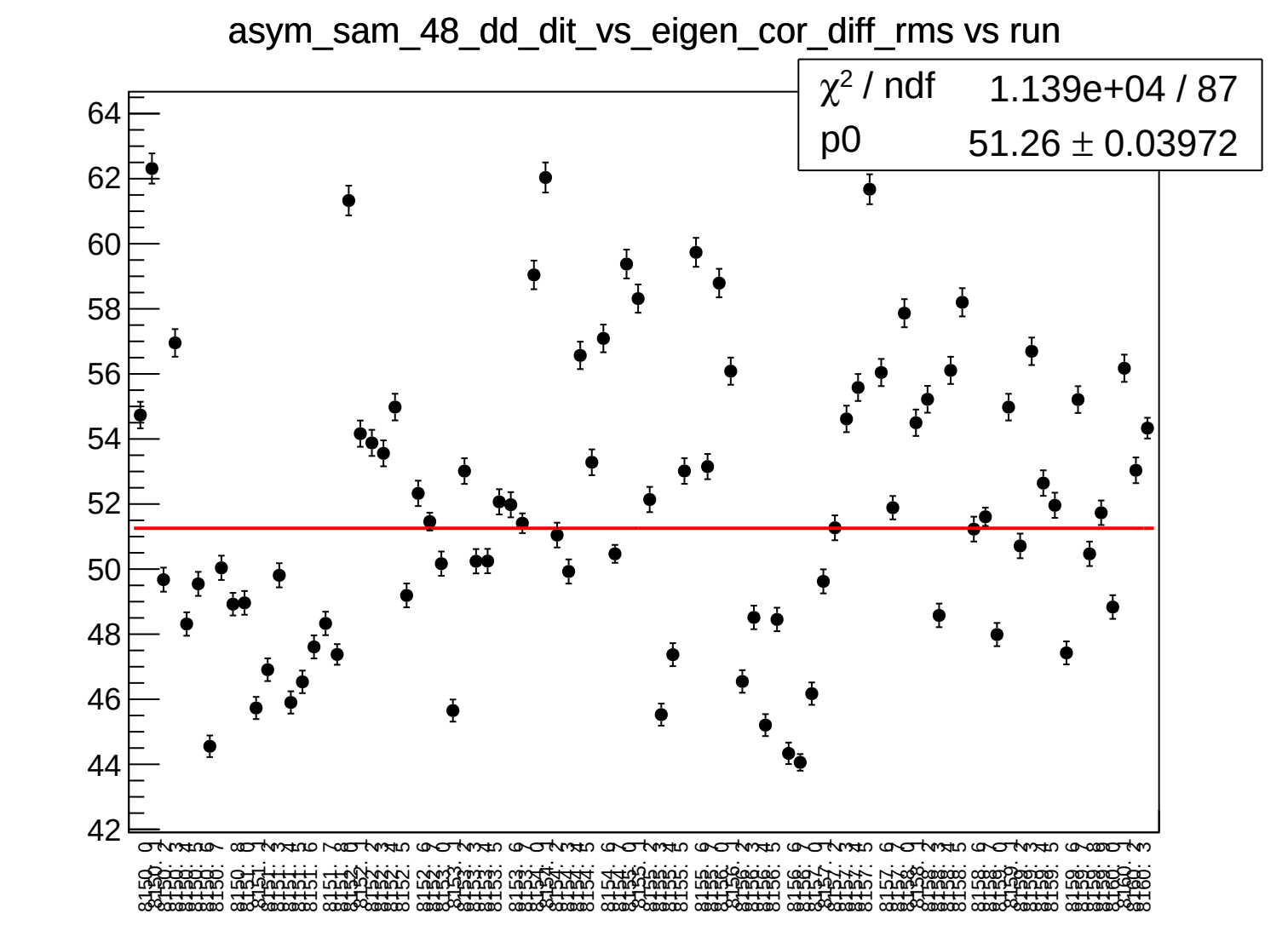

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.94 / 87
p0 −9.791e−14 ± 1.029e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean −328.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.005926
Std Dev 0.9996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

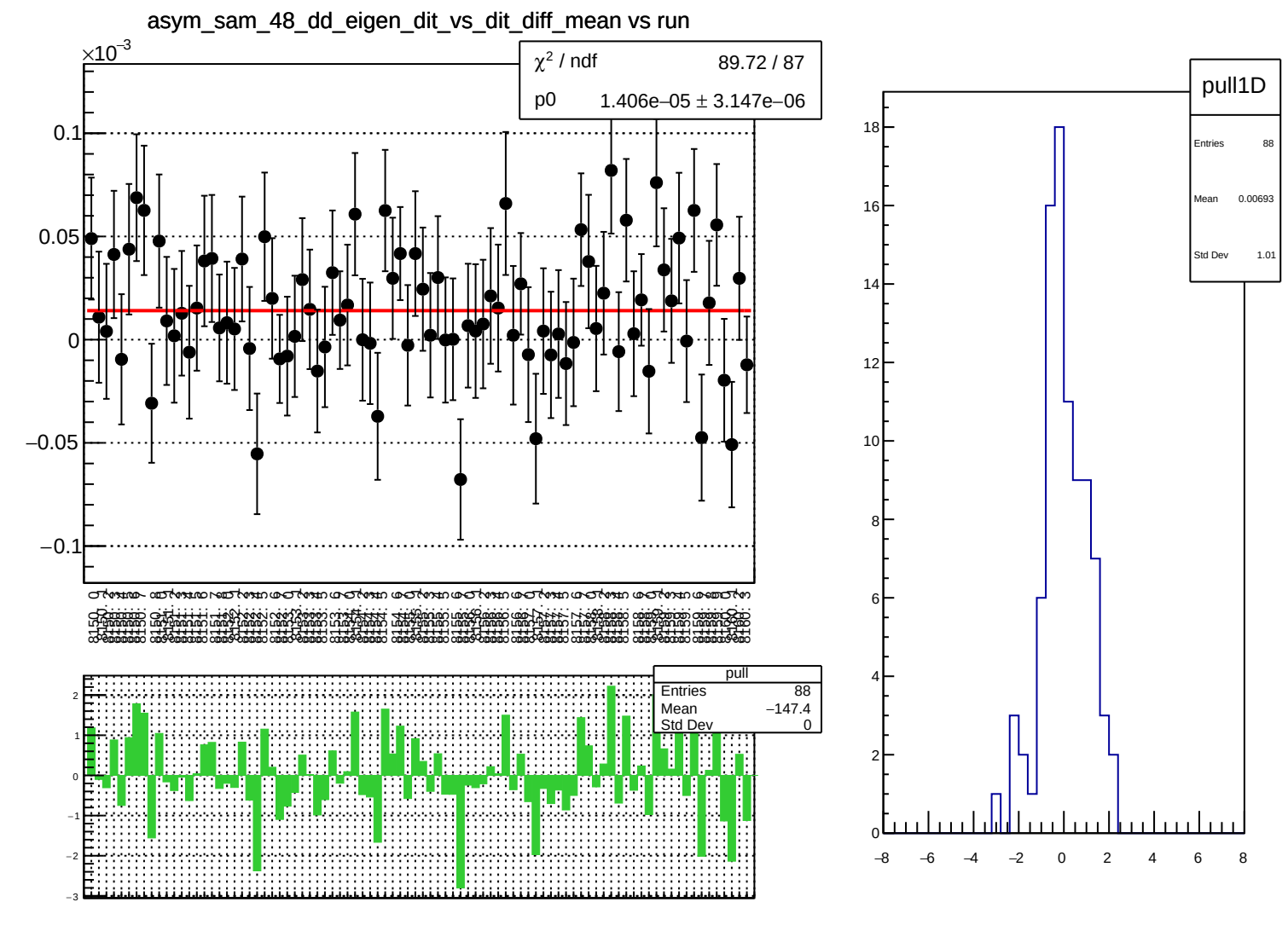

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.082e+05 / 87
p0 6.78e−11 ± 7.276e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

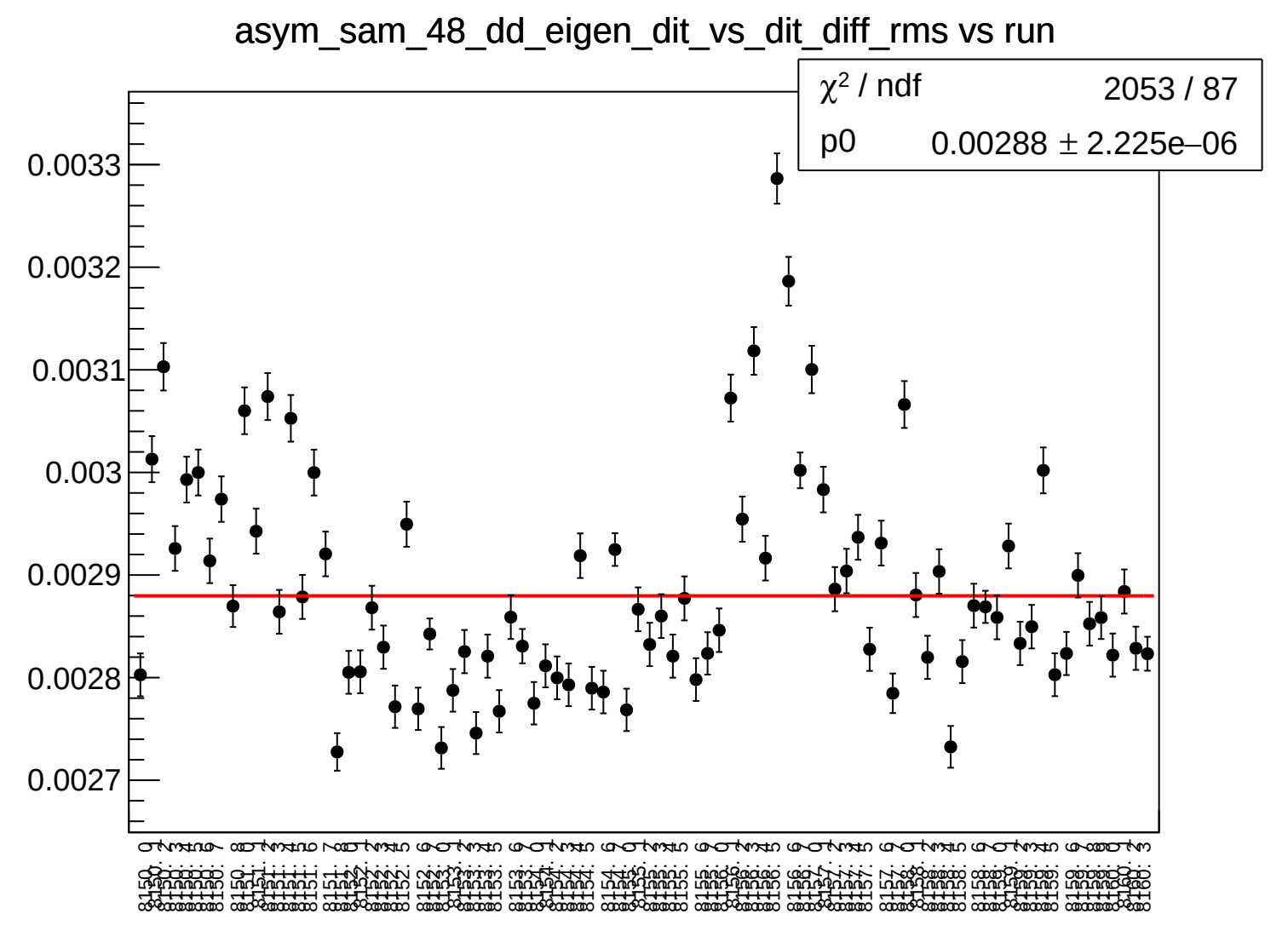

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.42 / 87
p0 −0.186 ± 0.05617
pull
Entries 88
Mean −57.14
Std Dev 0
pull1D
Entries 88
Mean −0.006695
Std Dev 0.9559

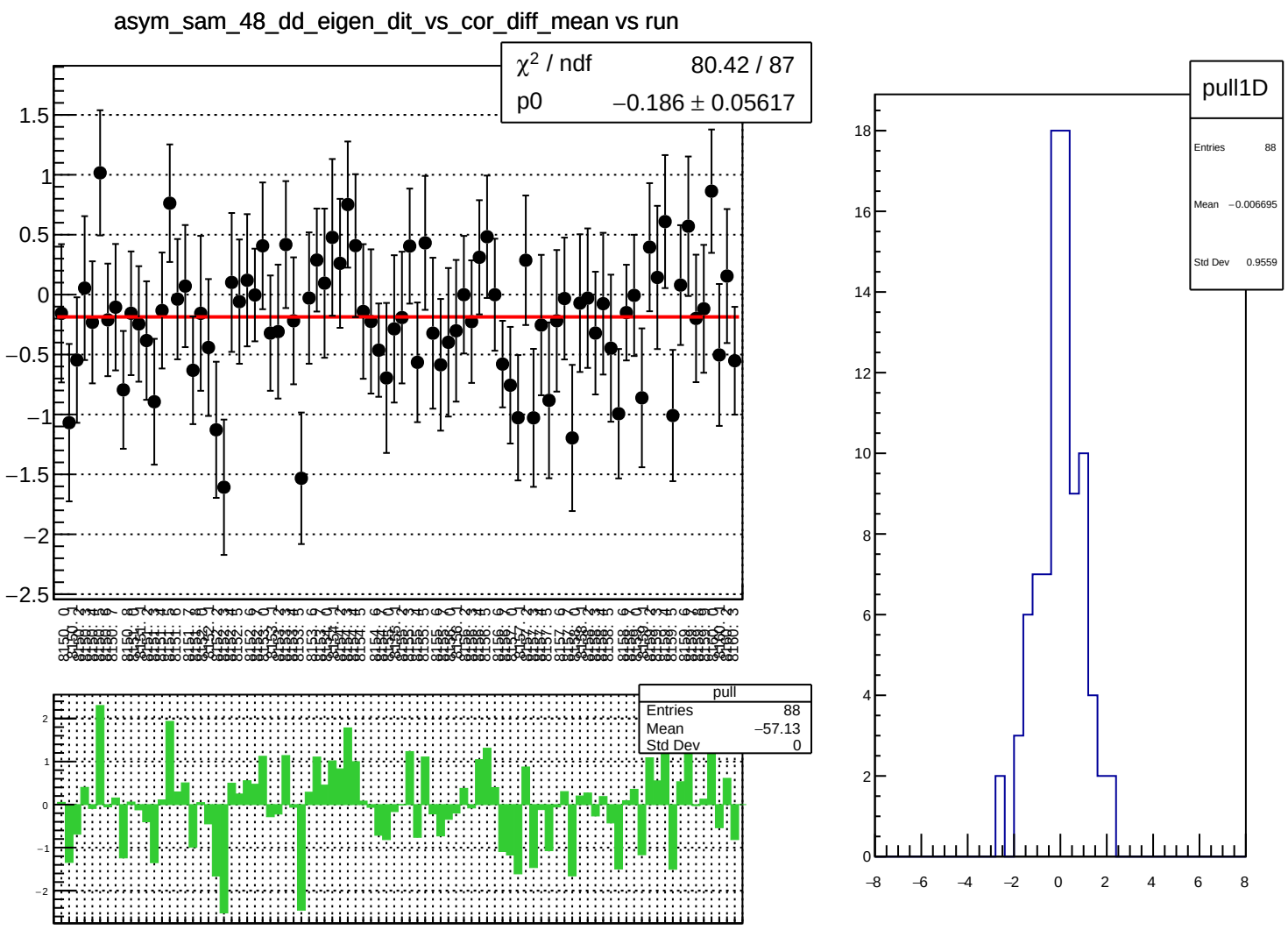

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.139e+04 / 87
p0 51.26 ± 0.03972
64
62
60
58
56
54
52
50
48
46
44
42

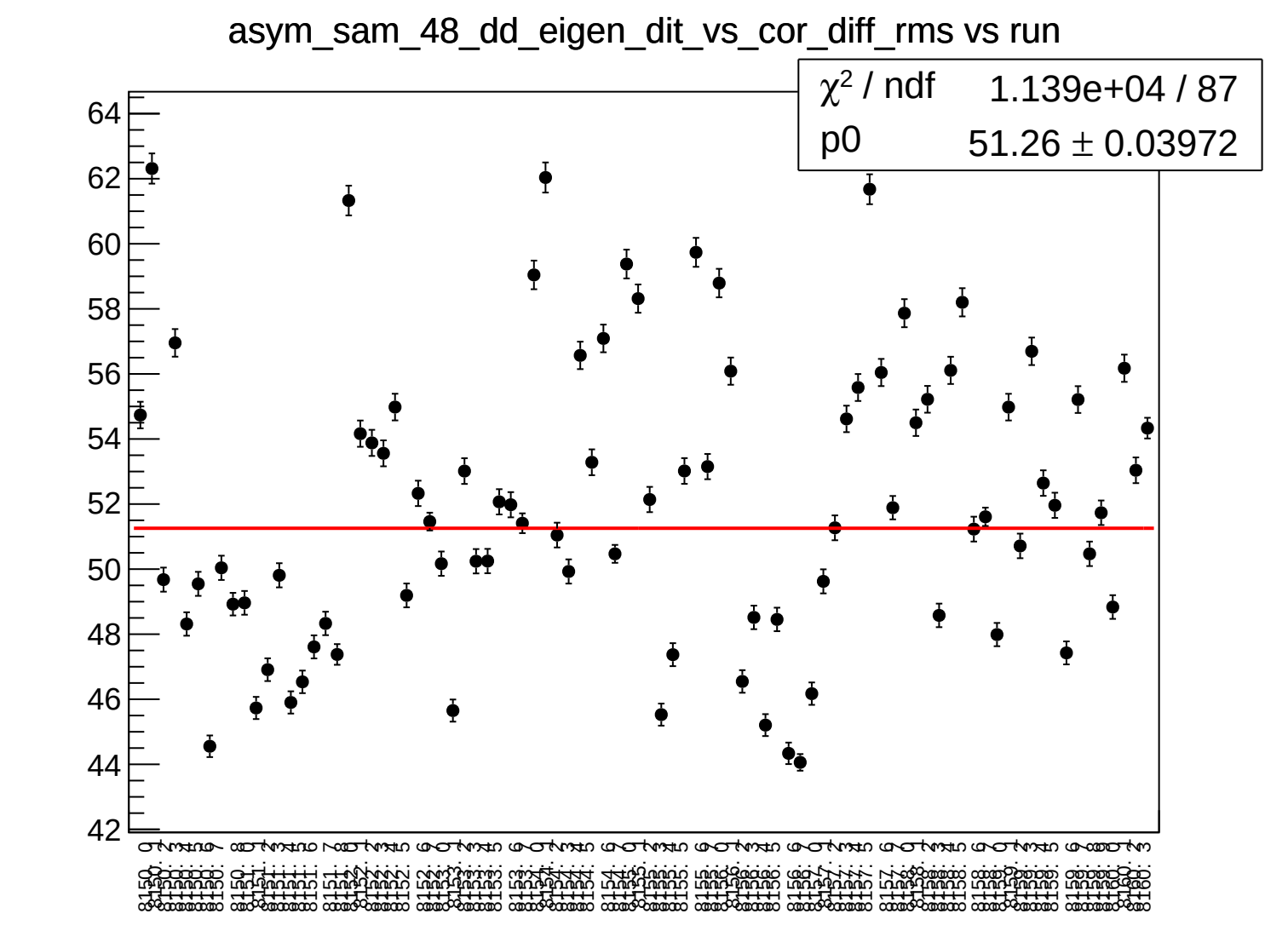

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.42 / 87
p0 −0.186 ± 0.05617
pull
Entries 88
Mean −57.14
Std Dev 0
pull1D
Entries 88
Mean −0.006695
Std Dev 0.9559

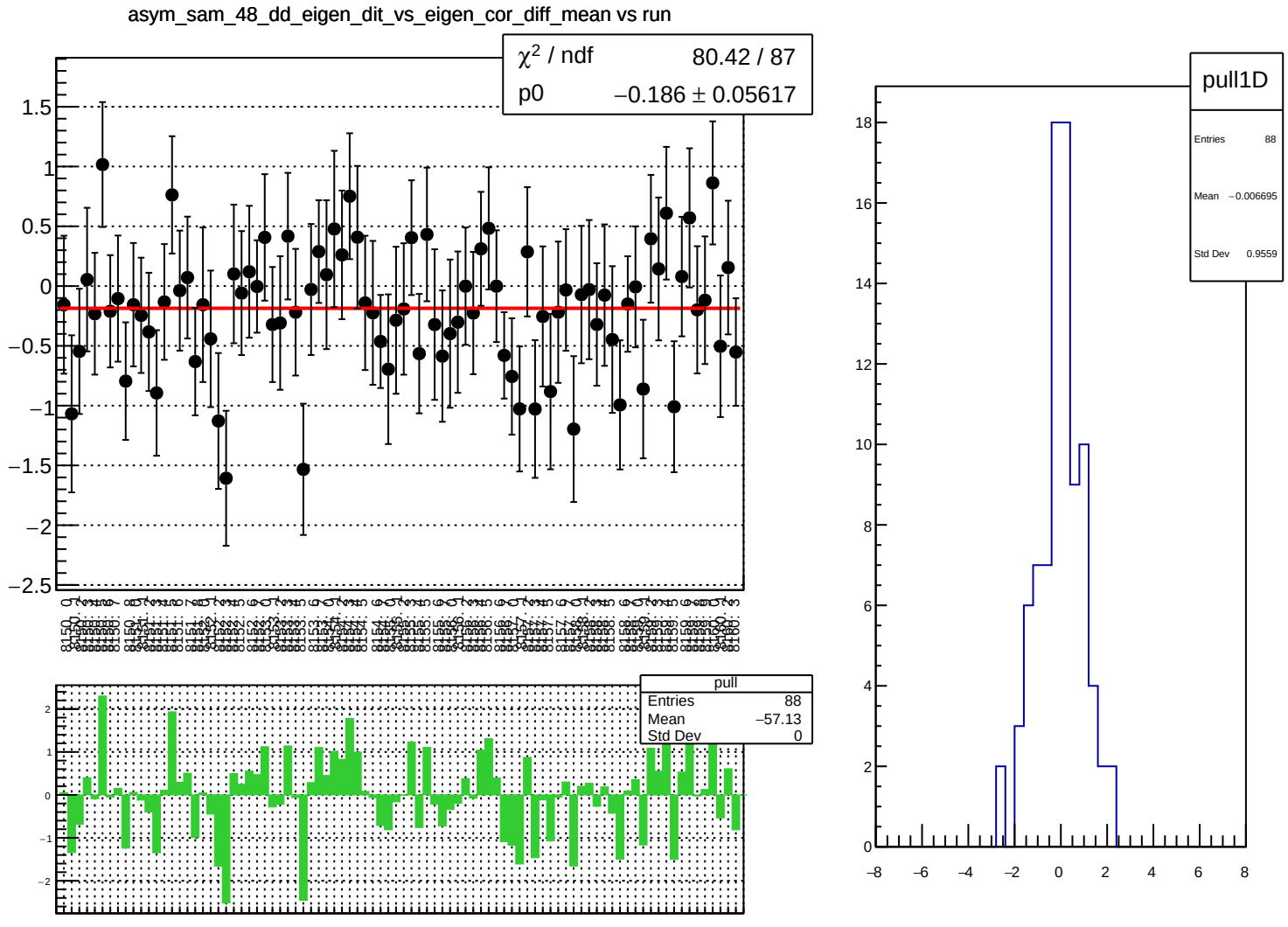

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.139e+04 / 87
p0 51.26 ± 0.03972
64
62
60
58
56
54
52
50
48
46
44
42

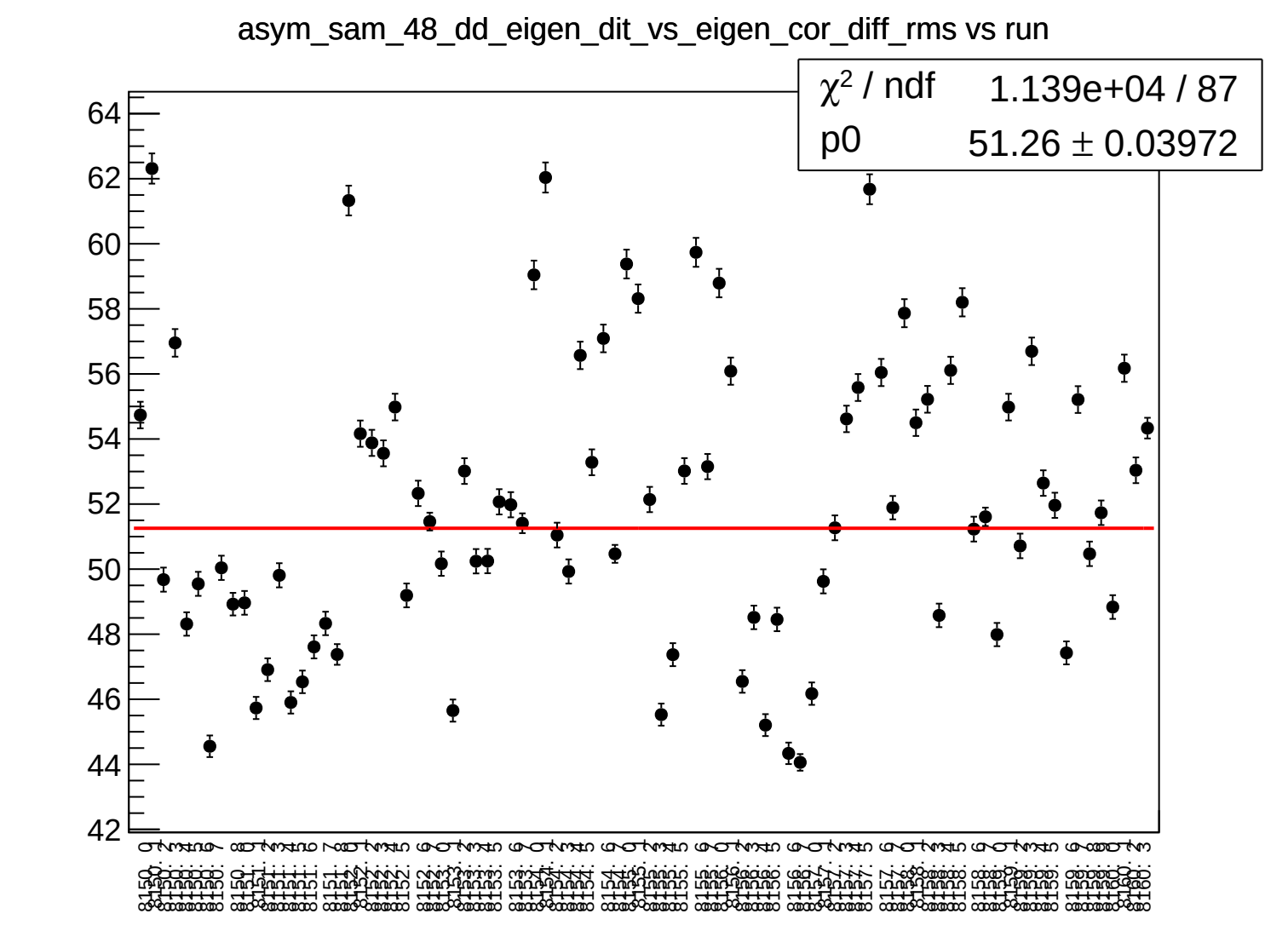

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.72 / 87
p0 1.406e−05 ± 3.147e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −147.4
Std Dev 0
pull1D
Entries 88
Mean 0.00693
Std Dev 1.01

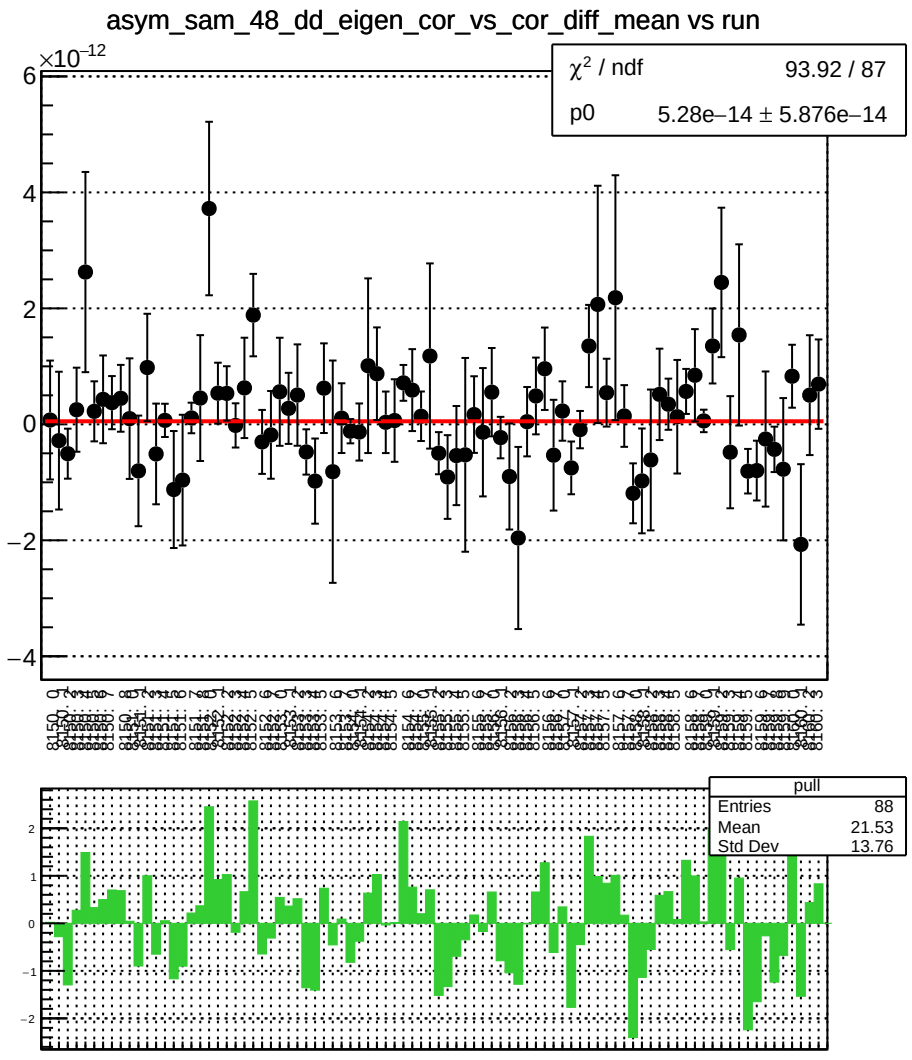

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2053 / 87
p0 0.00288 ± 2.225e–06
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027

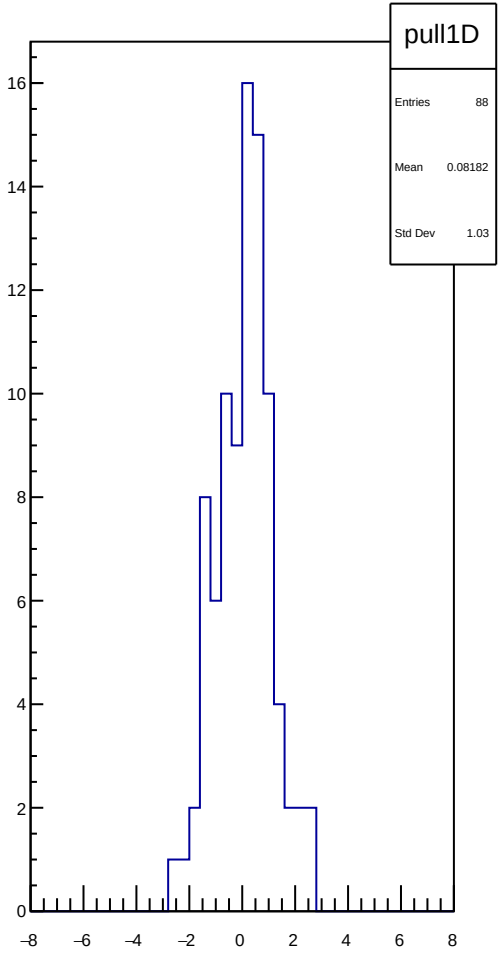

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.42 / 87
p0 −0.186 ± 0.05617
pull
Entries 88
Mean −57.13
Std Dev 0
pull1D
Entries 88
Mean −0.006695
Std Dev 0.9559

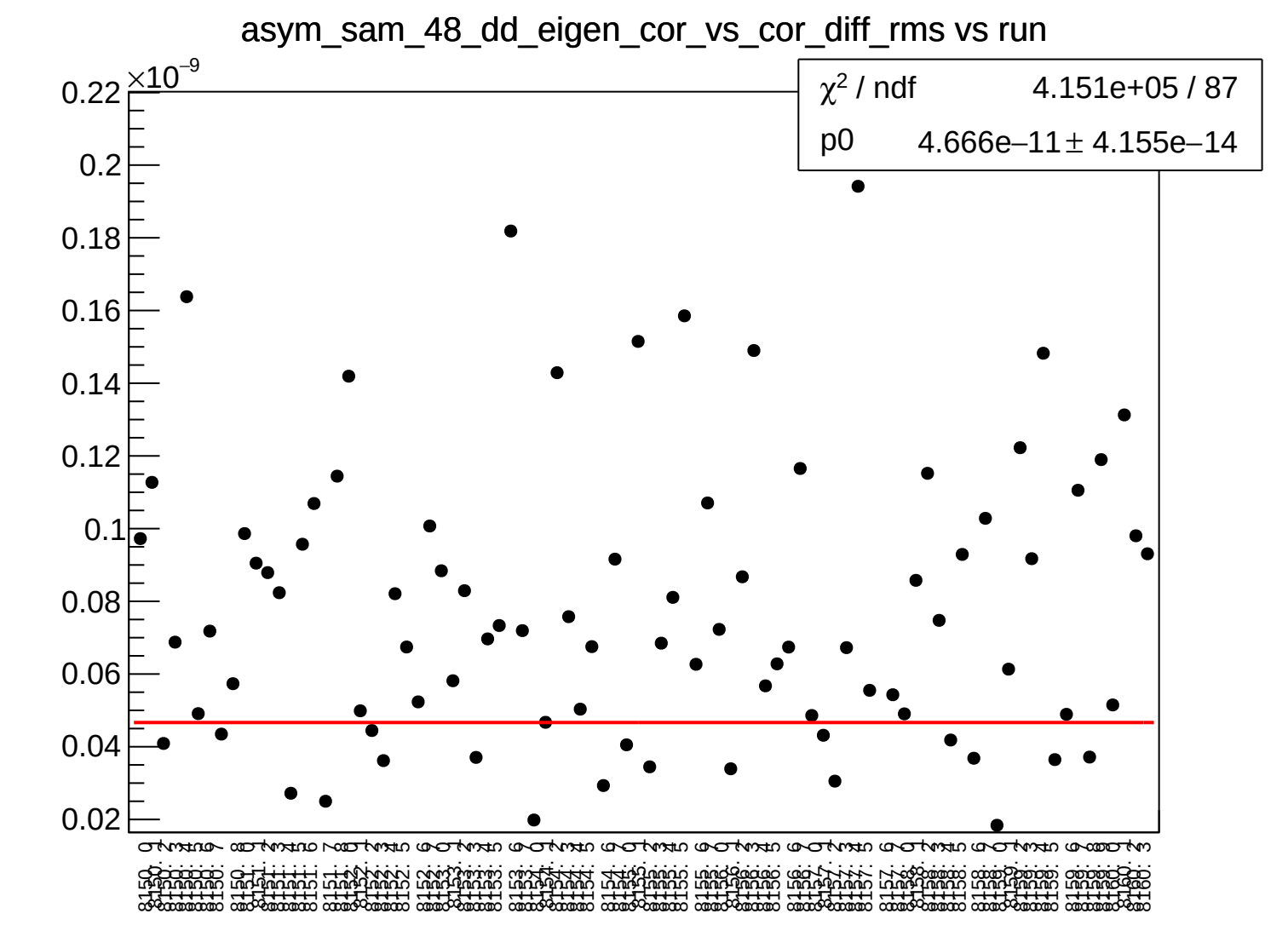

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.139e+04 / 87
p0 51.26 ± 0.03972
64
62
60
58
56
54
52
50
48
46
44
42

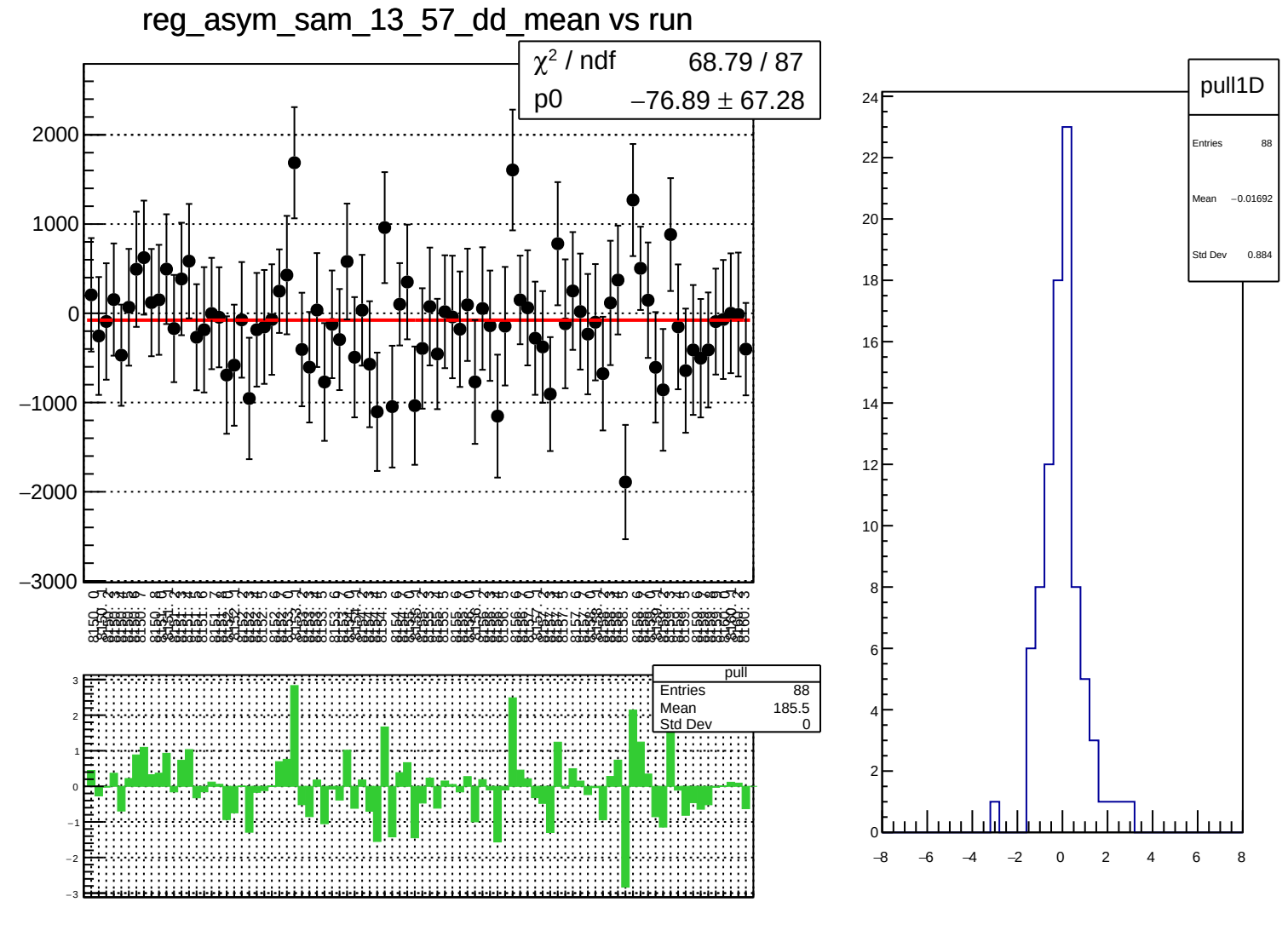

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.42 / 87
p0 −0.186 ± 0.05617
pull
Entries 88
Mean −57.13
Std Dev 0
pull1D
Entries 88
Mean −0.006695
Std Dev 0.9559

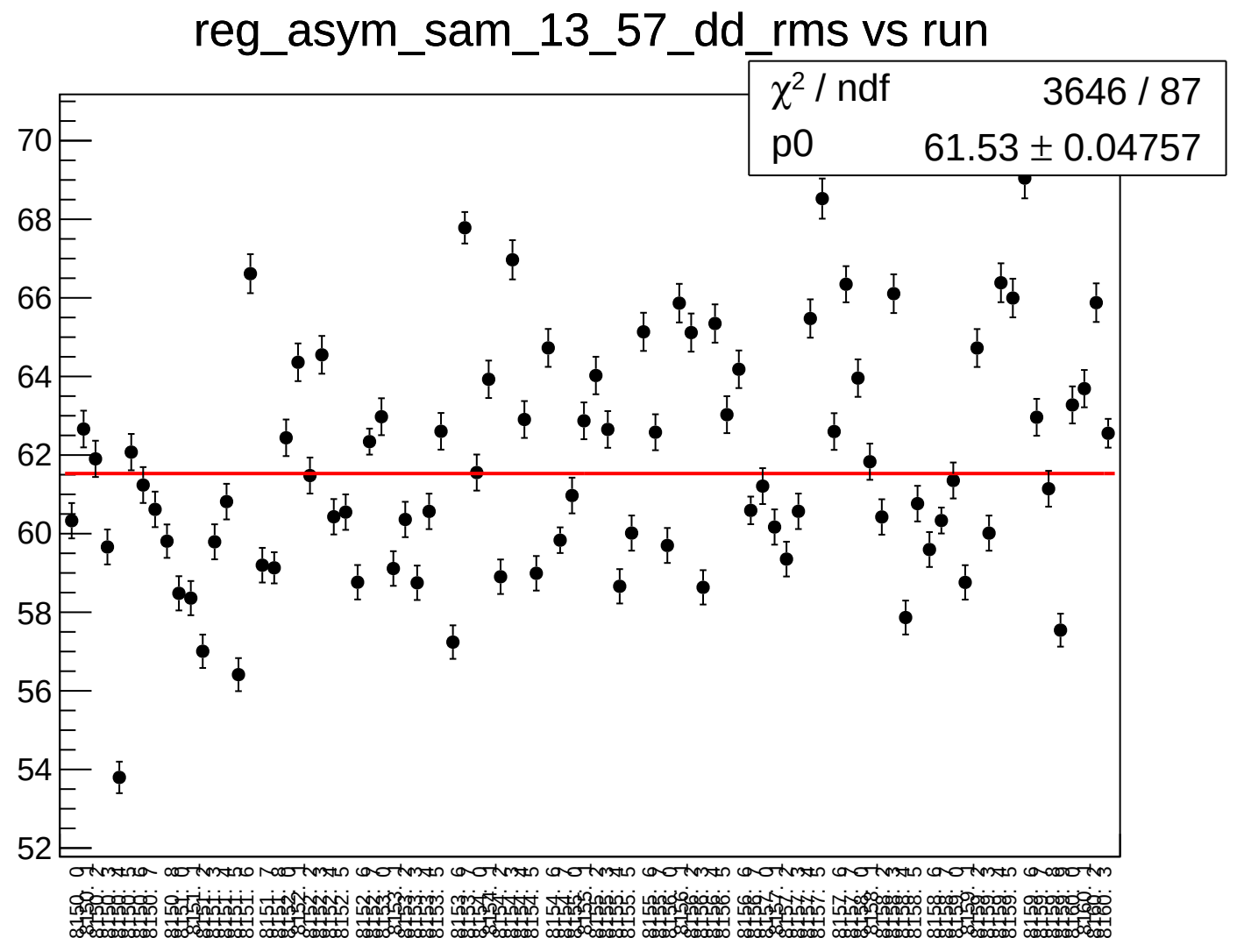

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.139e+04 / 87
p0 51.26 ± 0.03972
64
62
60
58
56
54
52
50
48
46
44
42

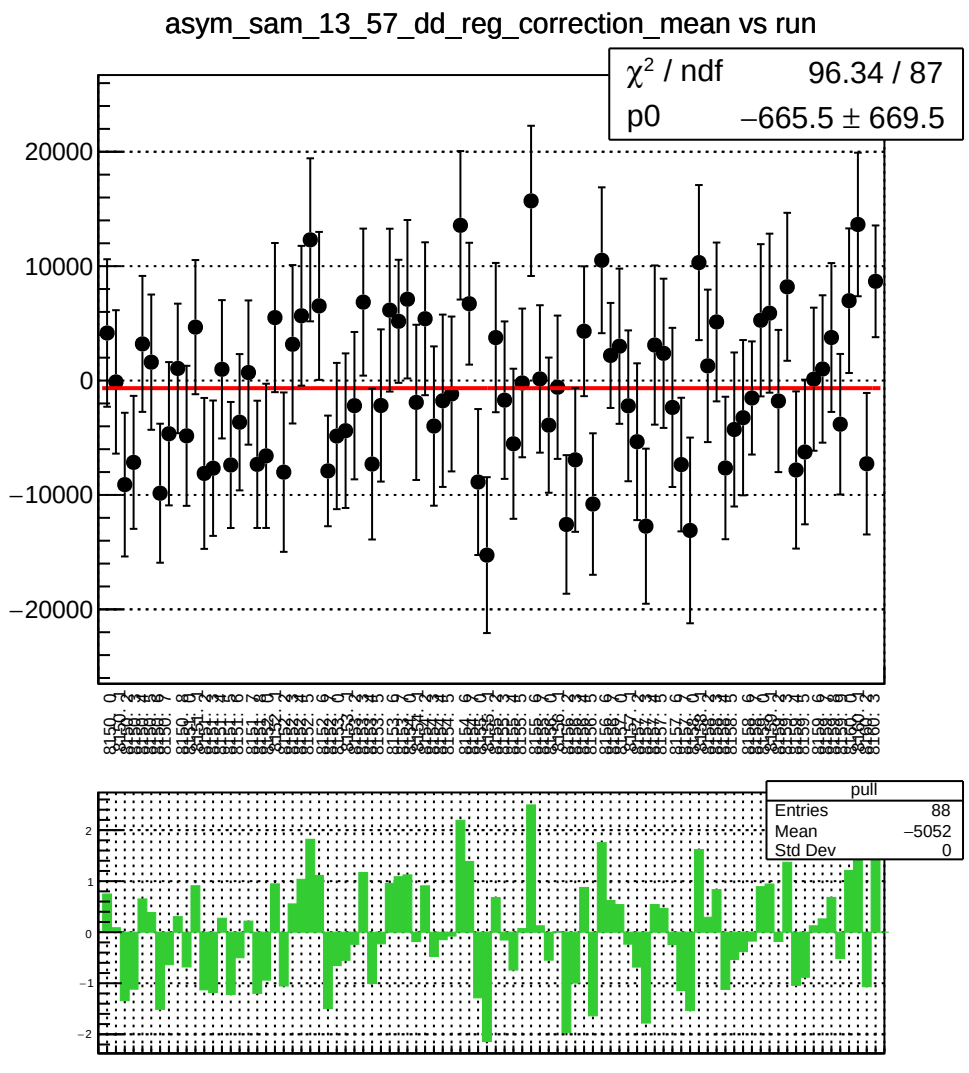

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.92 / 87
p0 5.28e−14 ± 5.876e−14
pull
Entries 88
Mean 21.53
Std Dev 13.76

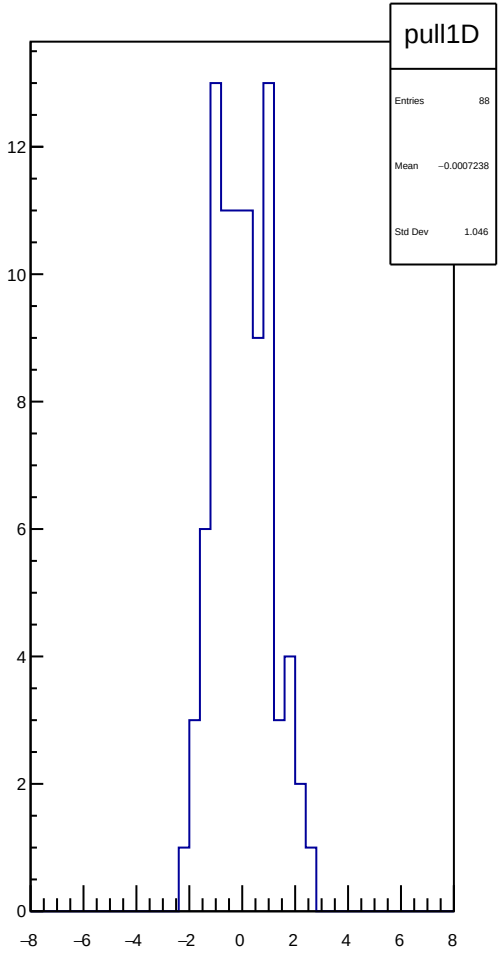

pull1D
Entries 88
Mean 0.08182
Std Dev 1.03

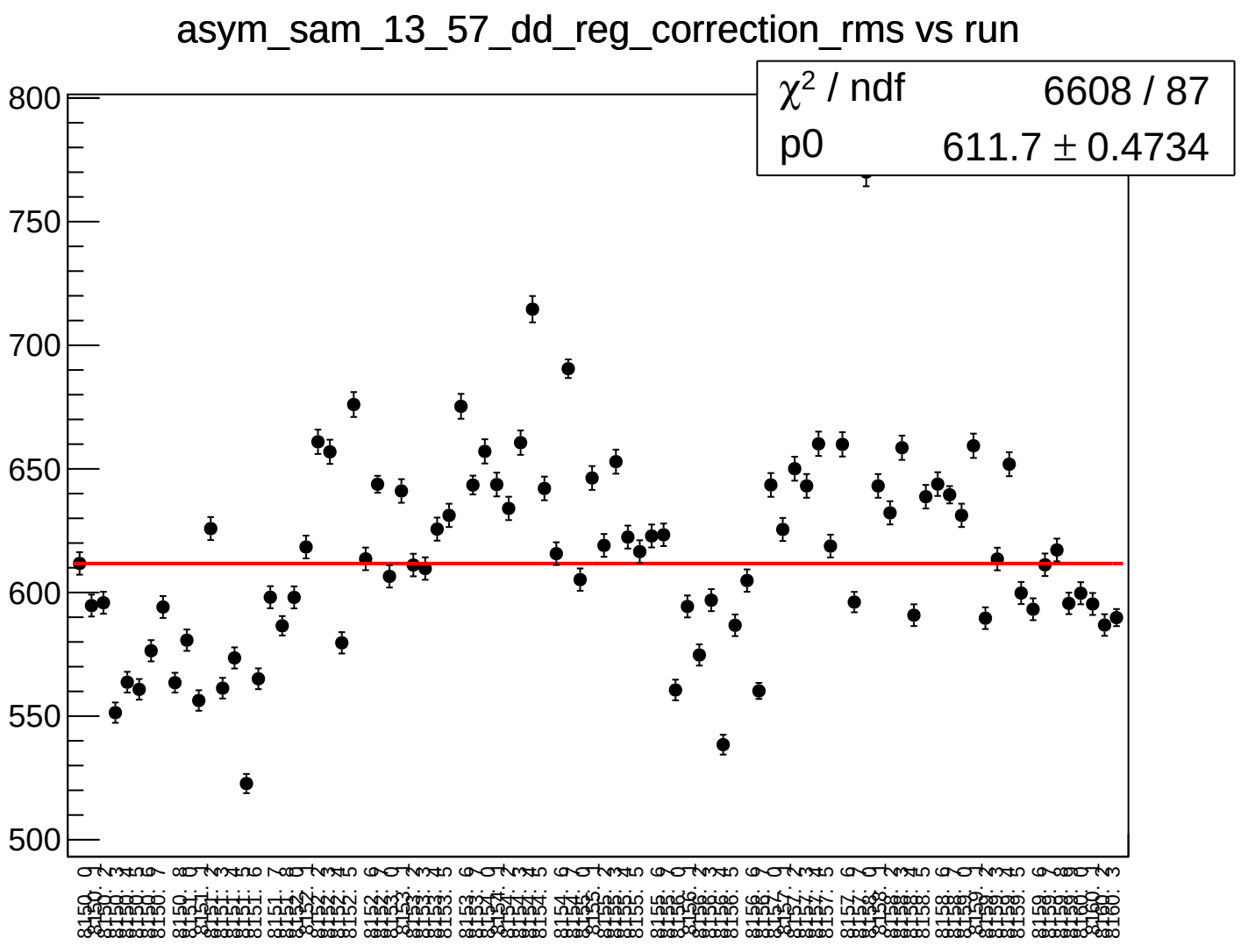

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.151e+05 / 87
p0 4.666e−11 ± 4.155e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

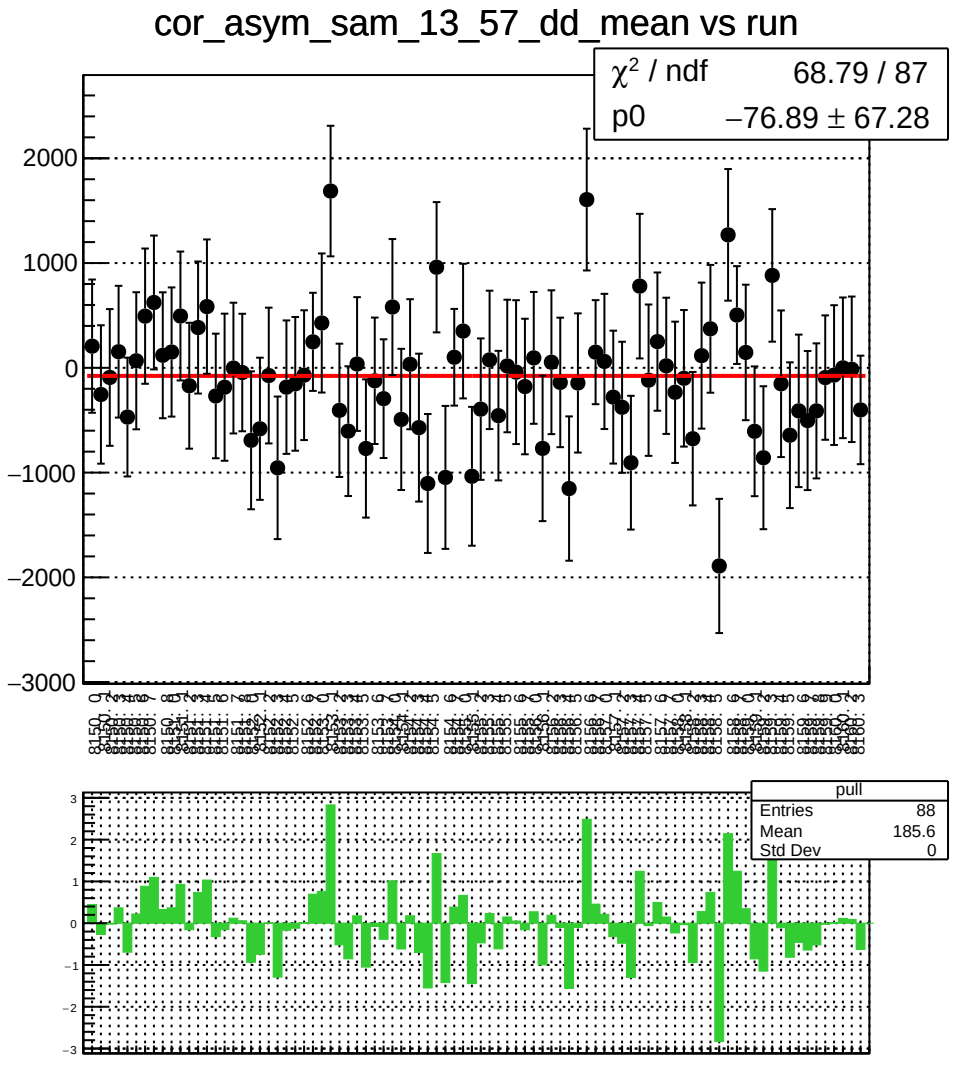

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 68.79 / 87
p0 −76.89 ± 67.28
pull
Entries 88
Mean 185.5
Std Dev 0
pull1D
Entries 88
Mean −0.01692
Std Dev 0.884

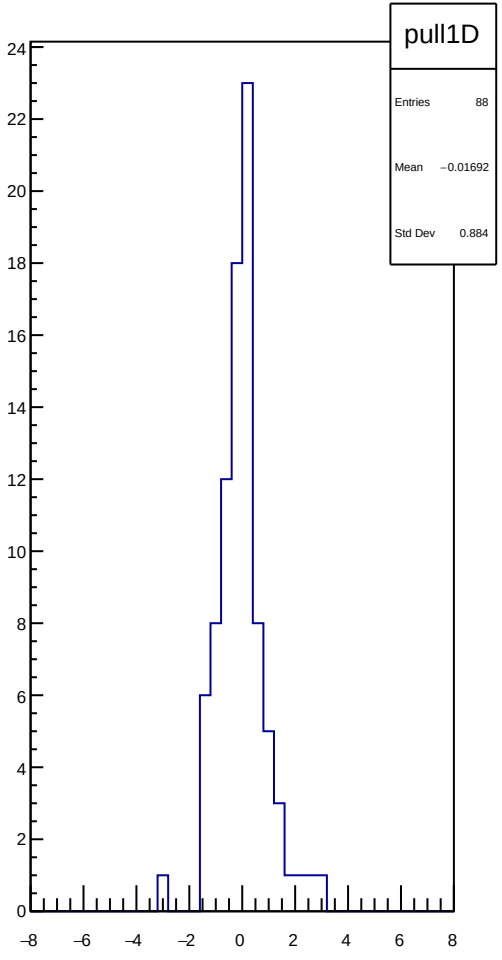

reg_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 3646 / 87
p0 61.53 ± 0.04757
70
68
66
64
62
60
58
56
54
52

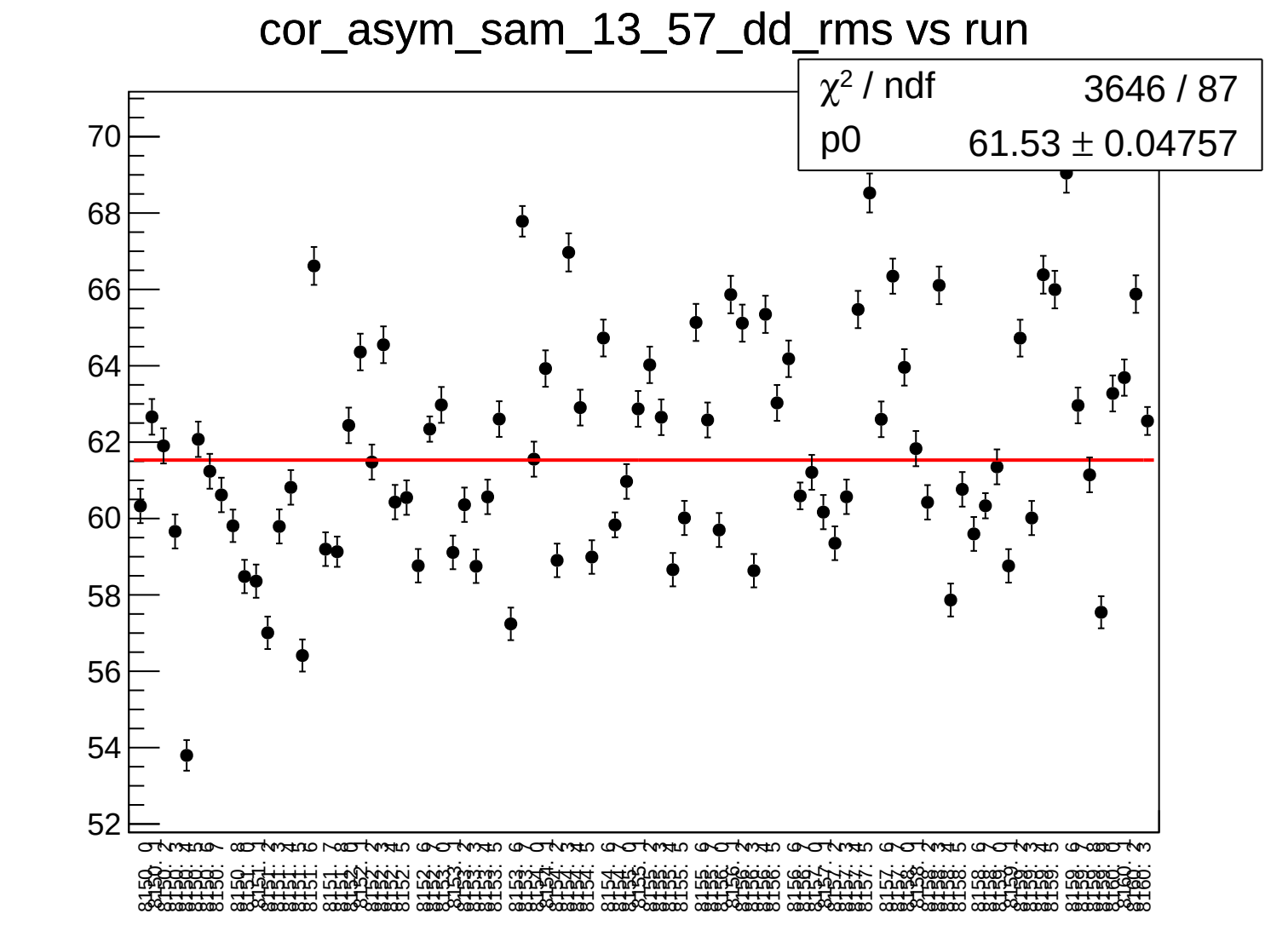

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 96.34 / 87
p0 −665.5 ± 669.5
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −5052
Std Dev 0
2
1
0
−1
−2

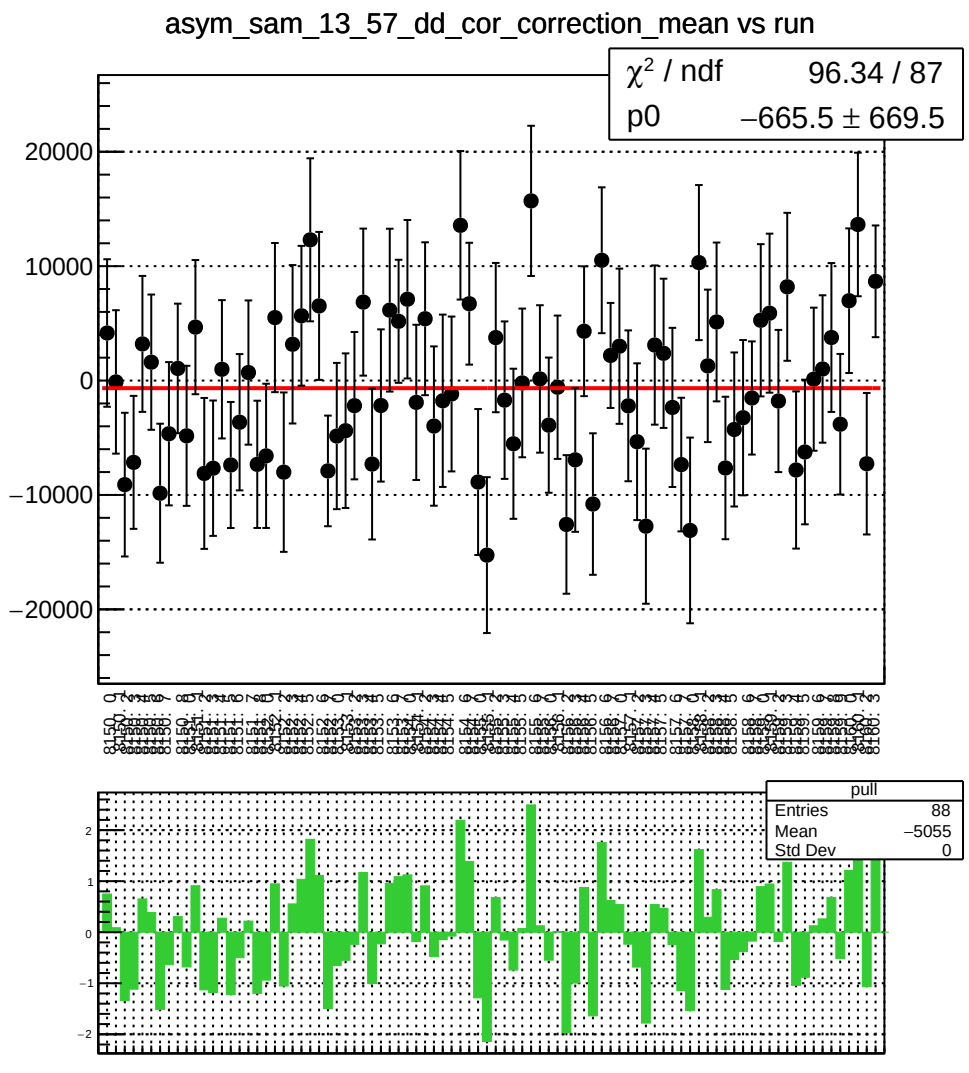

pull1D
Entries 88
Mean −0.0007238
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

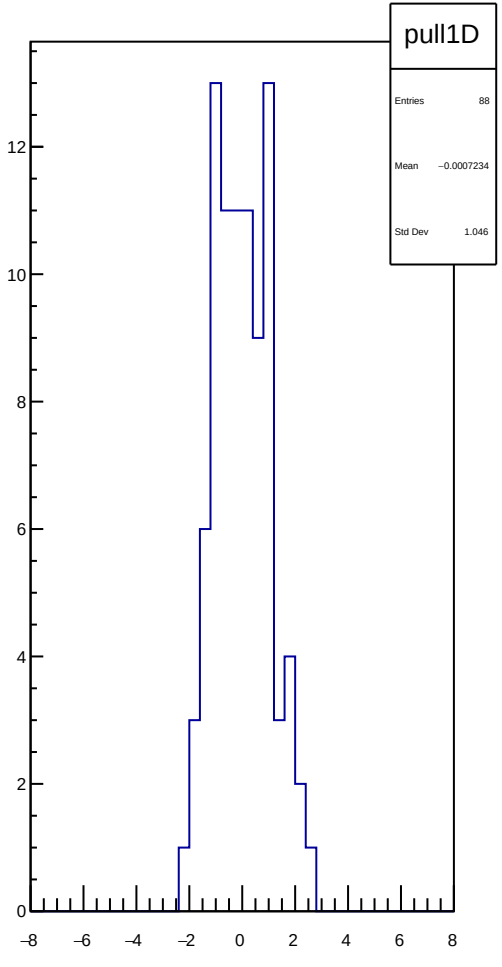

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 6608 / 87
p0 611.7 ± 0.4734
800
750
700
650
600
550
500

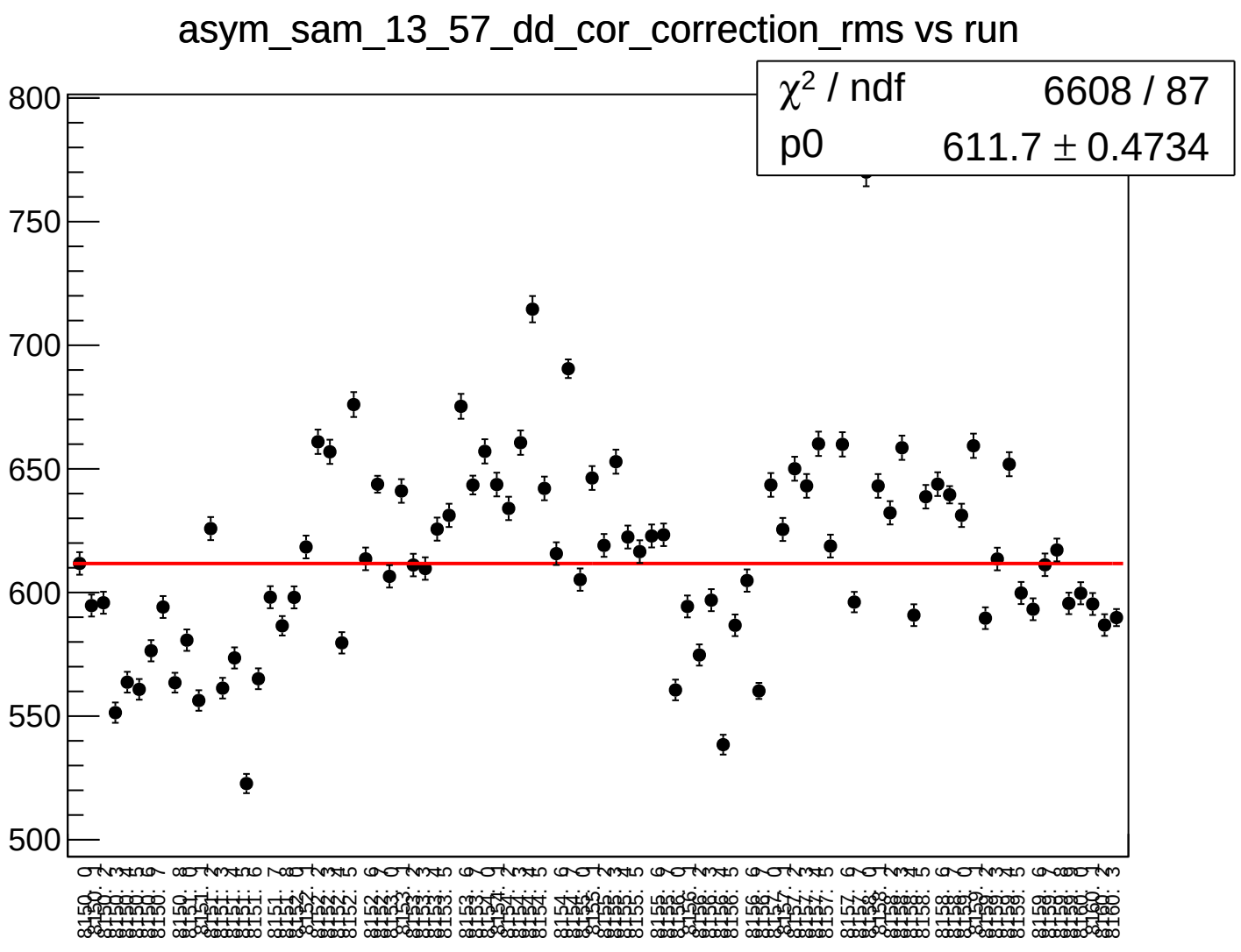

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 68.79 / 87
p0 −76.89 ± 67.28
pull
Entries 88
Mean 185.6
Std Dev 0

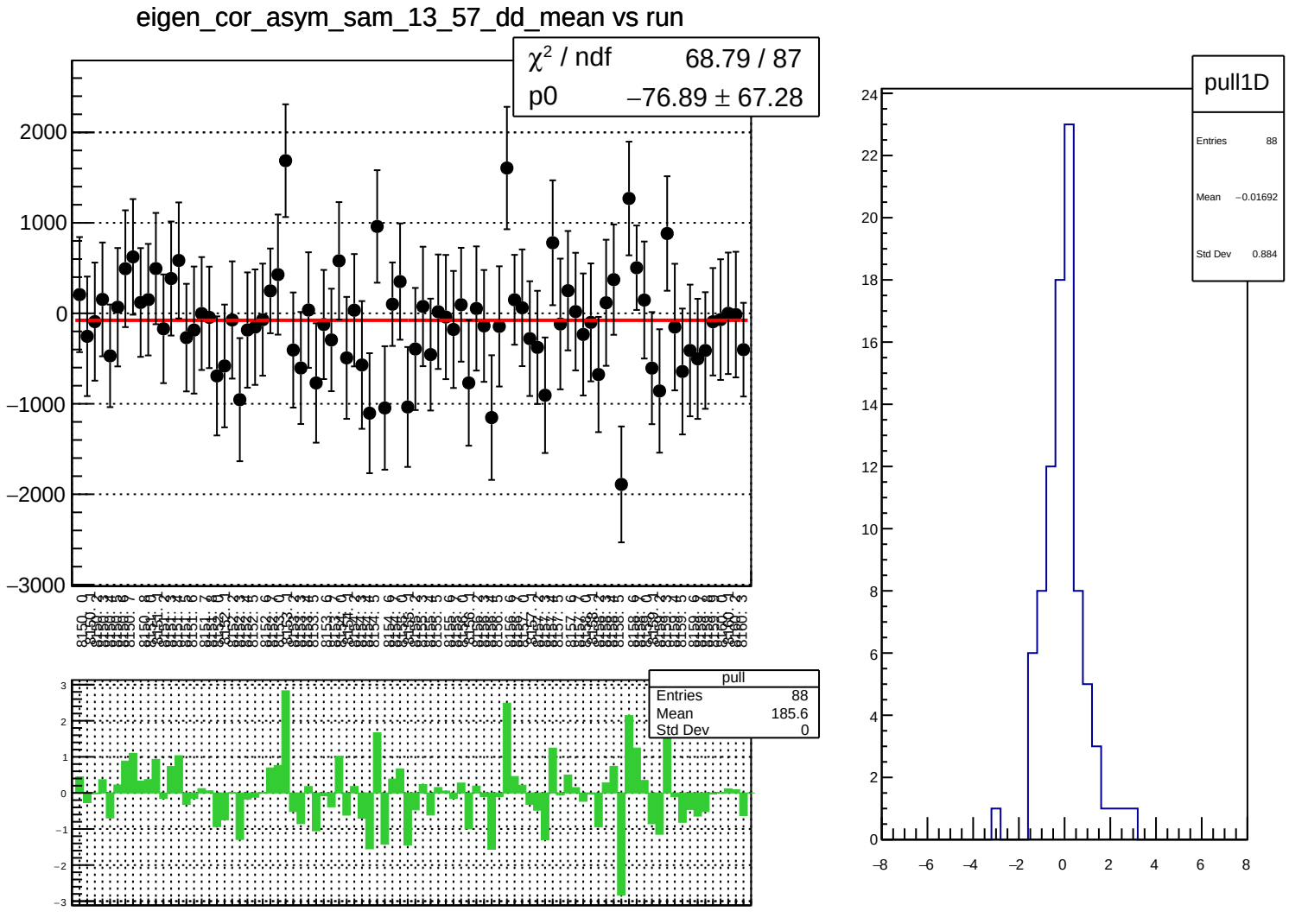

pull1D
Entries 88
Mean −0.01692
Std Dev 0.884

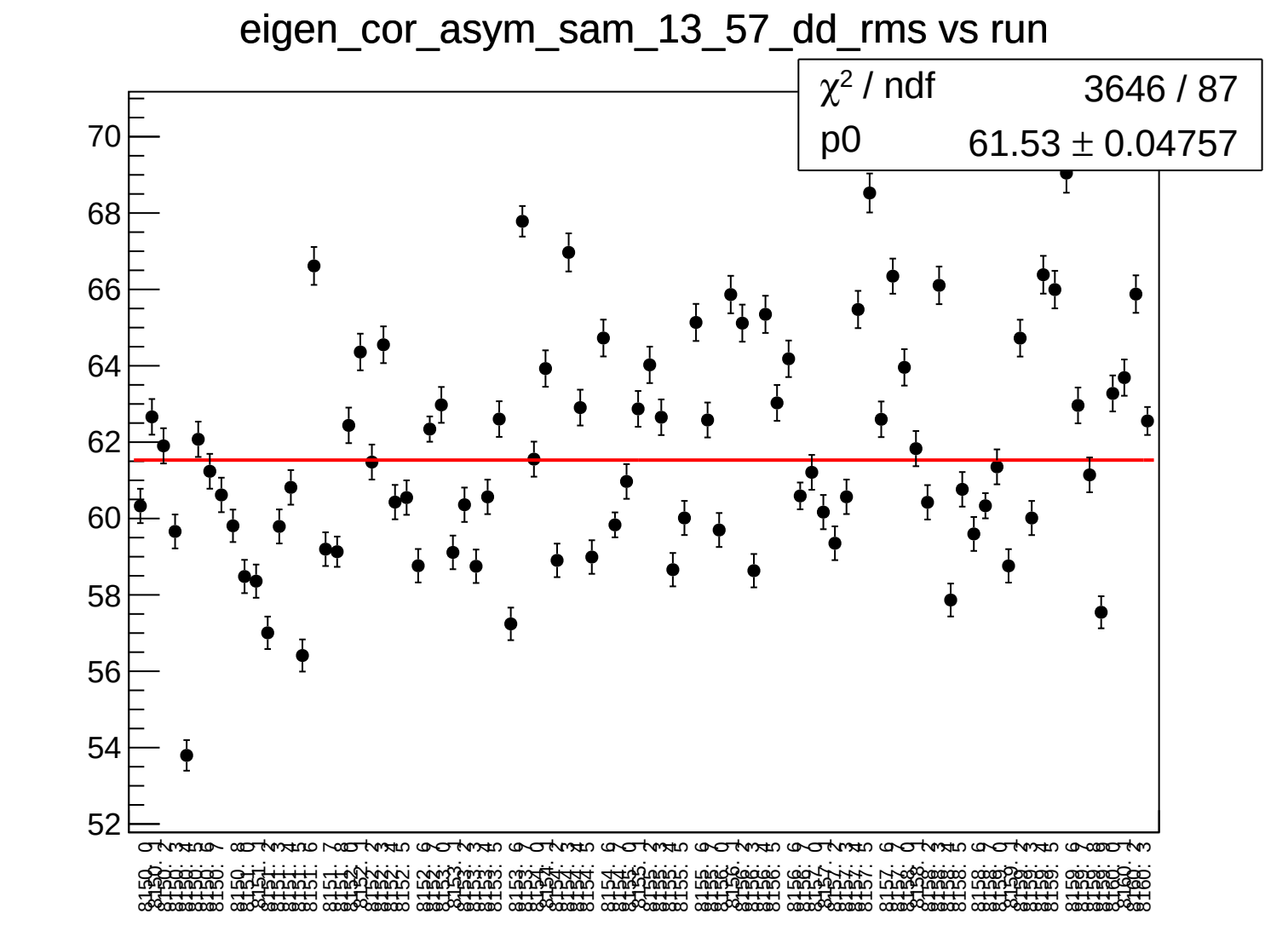

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 3646 / 87
p0 61.53 ± 0.04757
70
68
66
64
62
60
58
56
54
52

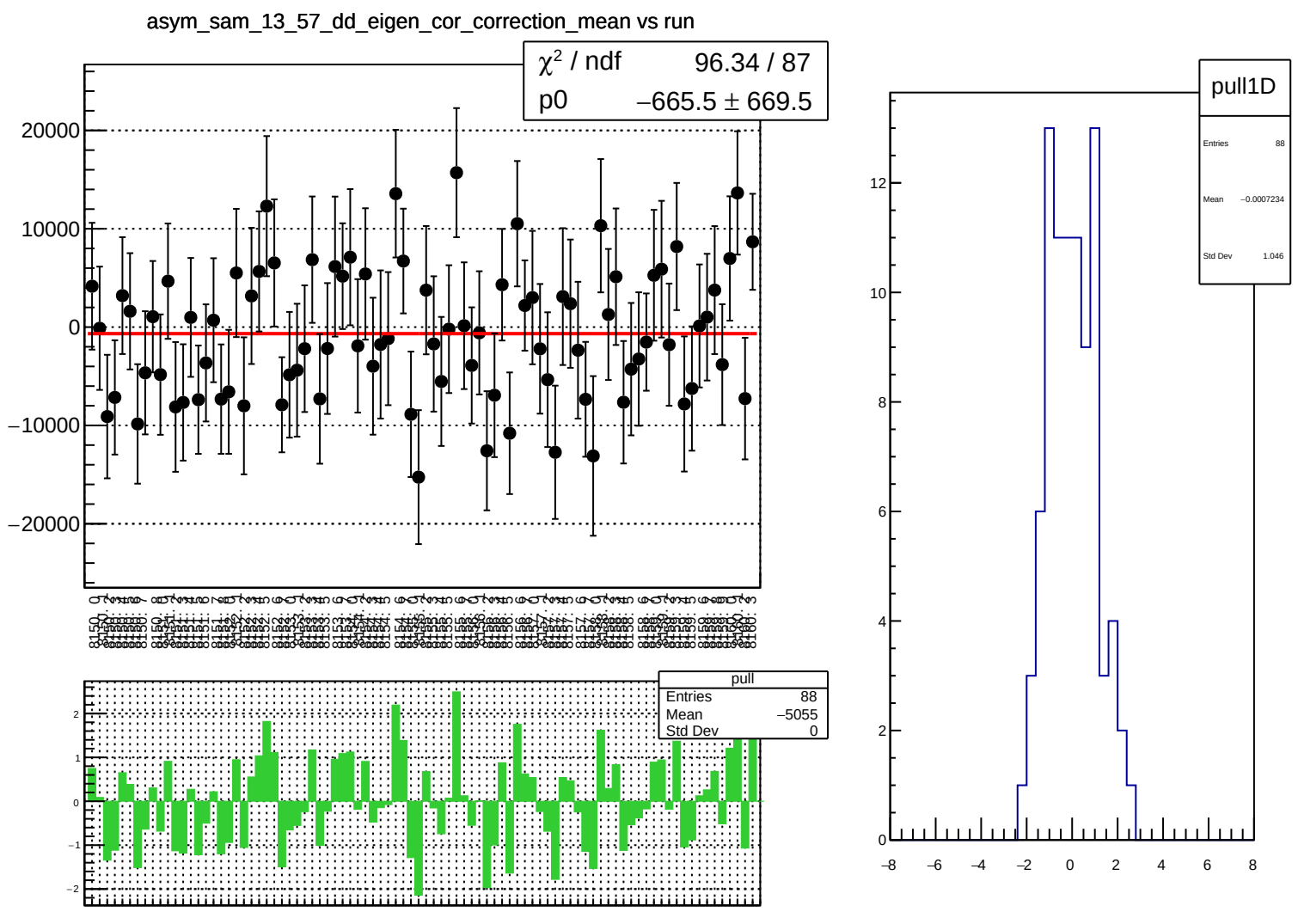

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 96.34 / 87
p0 −665.5 ± 669.5
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −5055
Std Dev 0
2
1
0
−1
−2

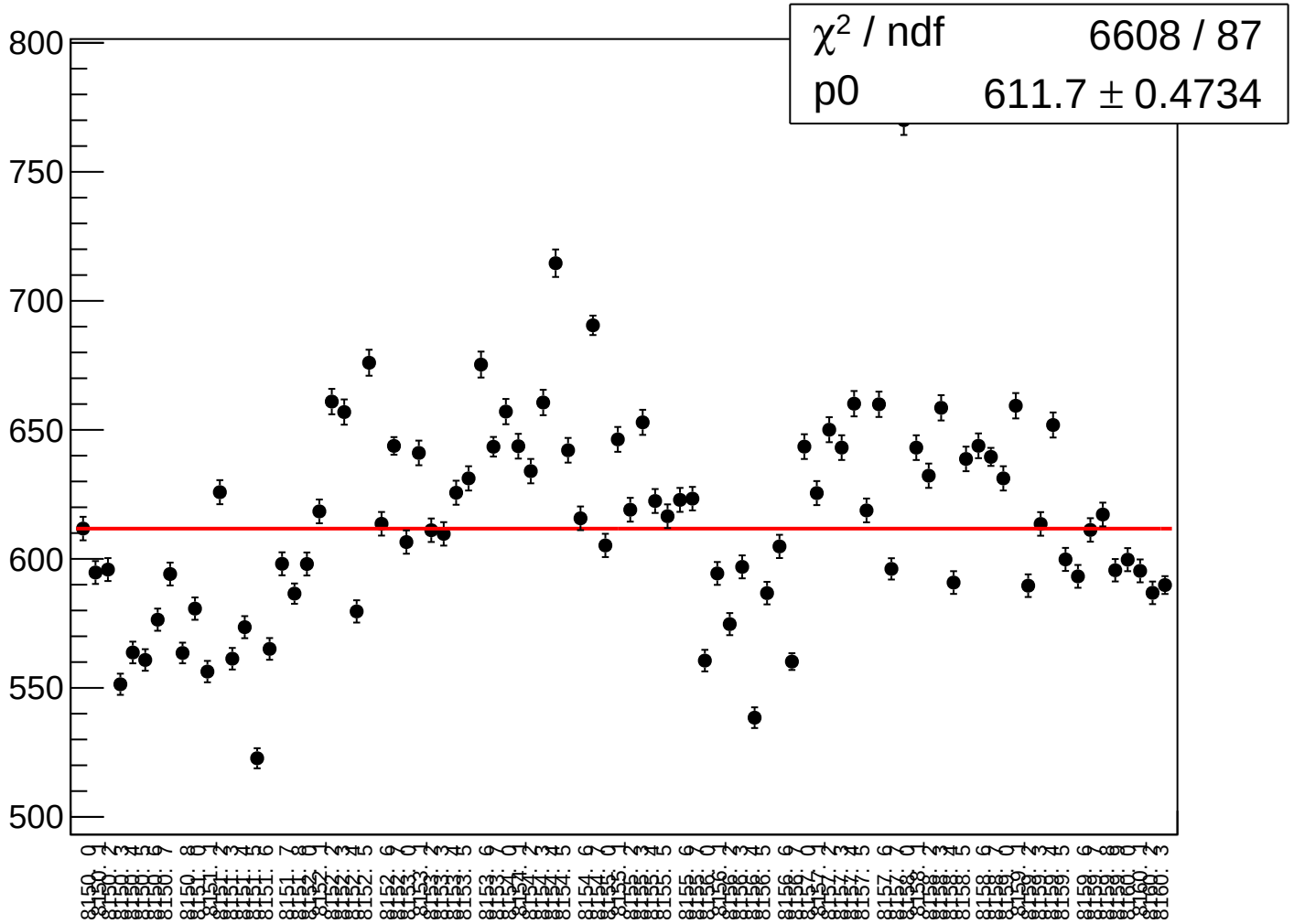

pull1D
Entries 88
Mean −0.0007234
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

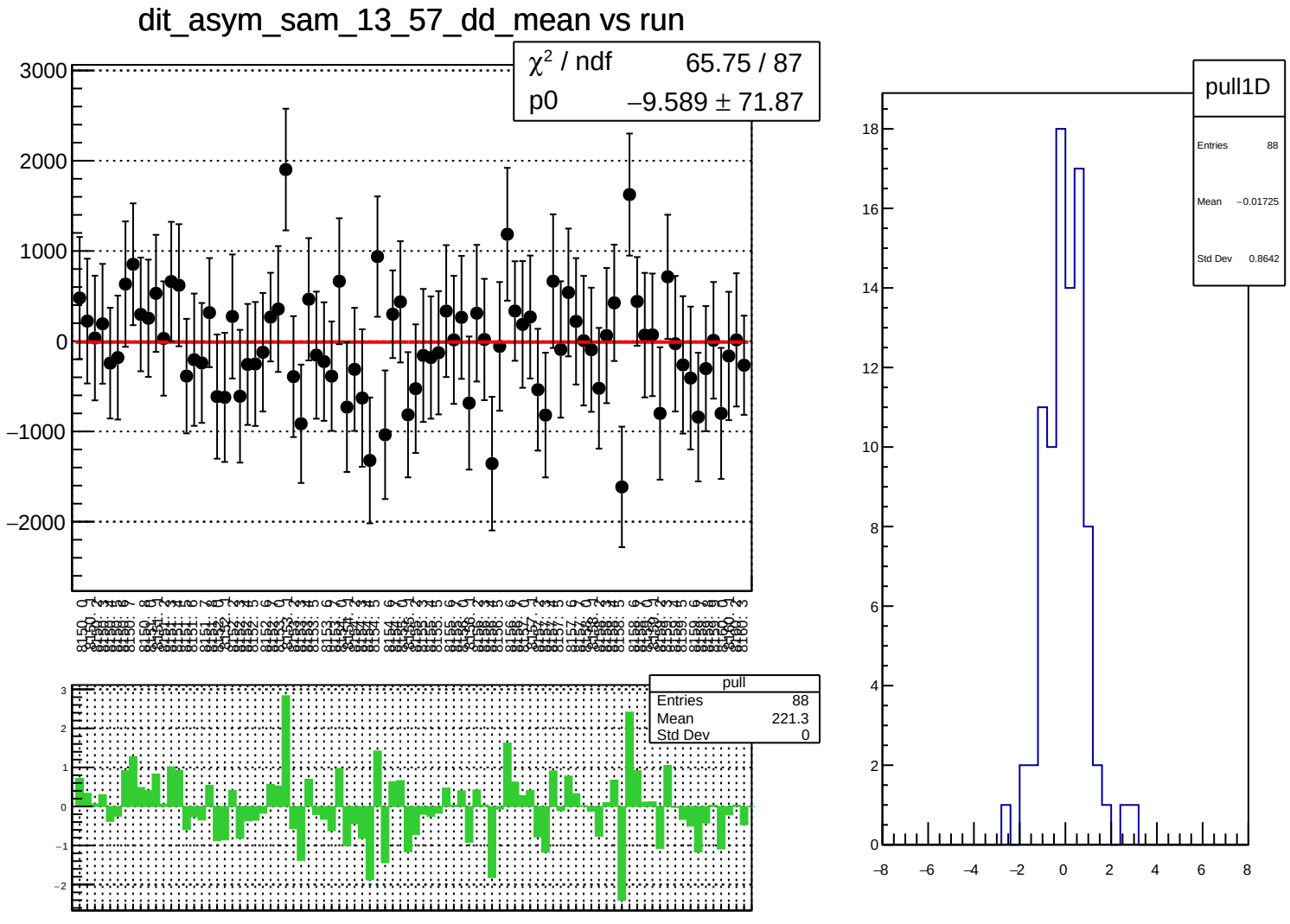

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 6608 / 87
p0 611.7 ± 0.4734
800
750
700
650
600
550
500

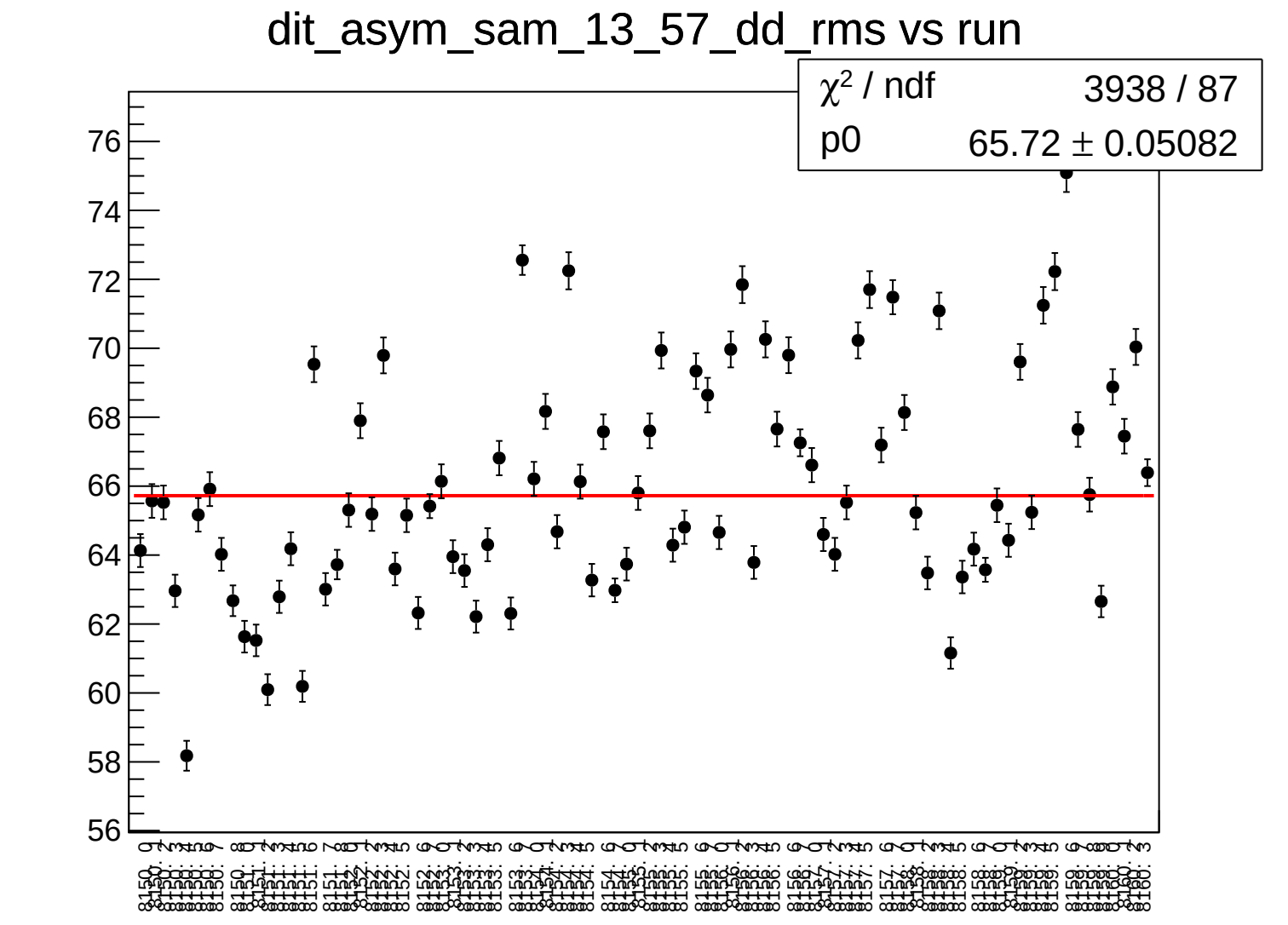

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 68.79 / 87
p0 −76.89 ± 67.28
pull
Entries 88
Mean 185.6
Std Dev 0
pull1D
Entries 88
Mean −0.01692
Std Dev 0.884

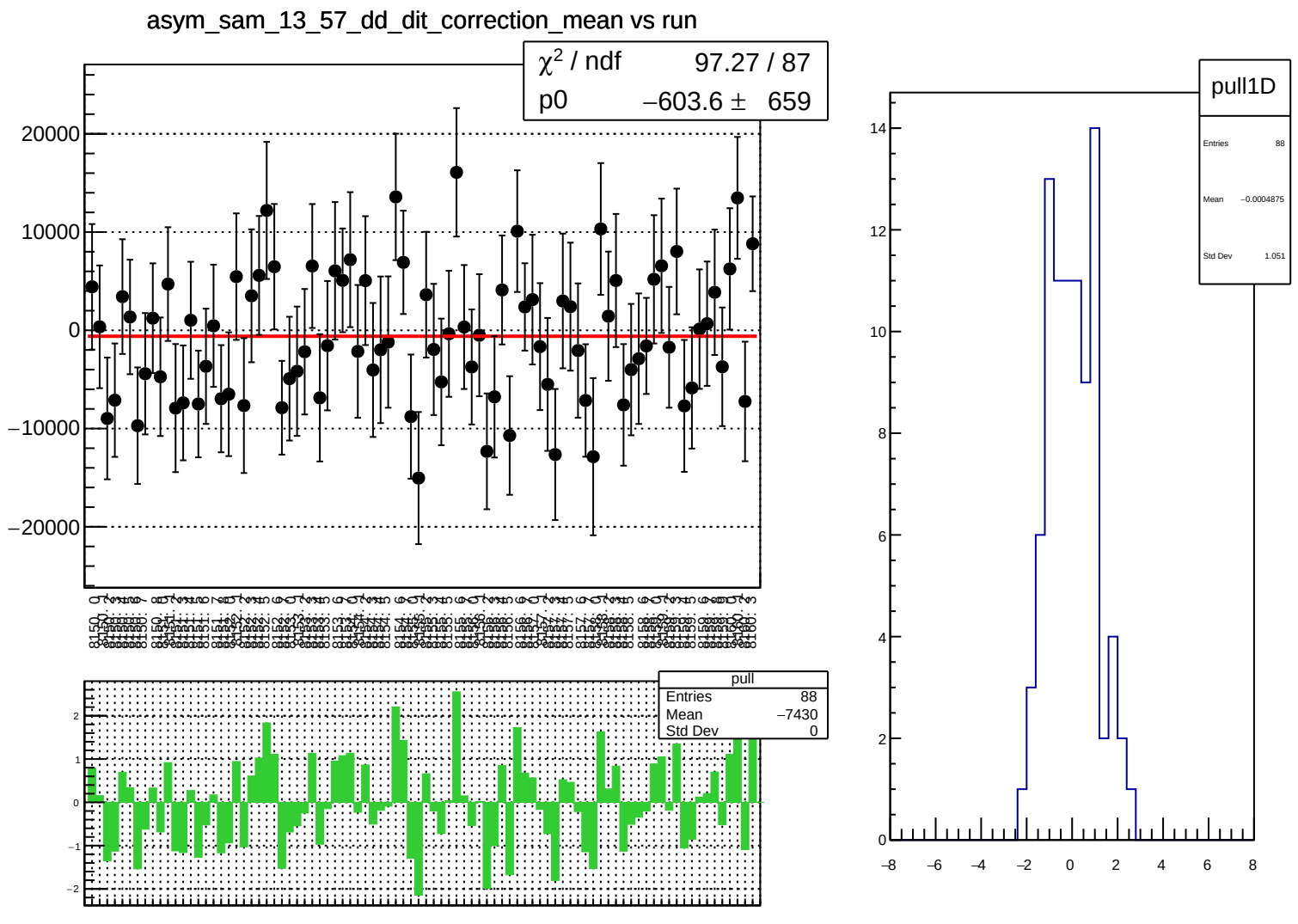

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 3646 / 87
p0 61.53 ± 0.04757
70
68
66
64
62
60
58
56
54
52

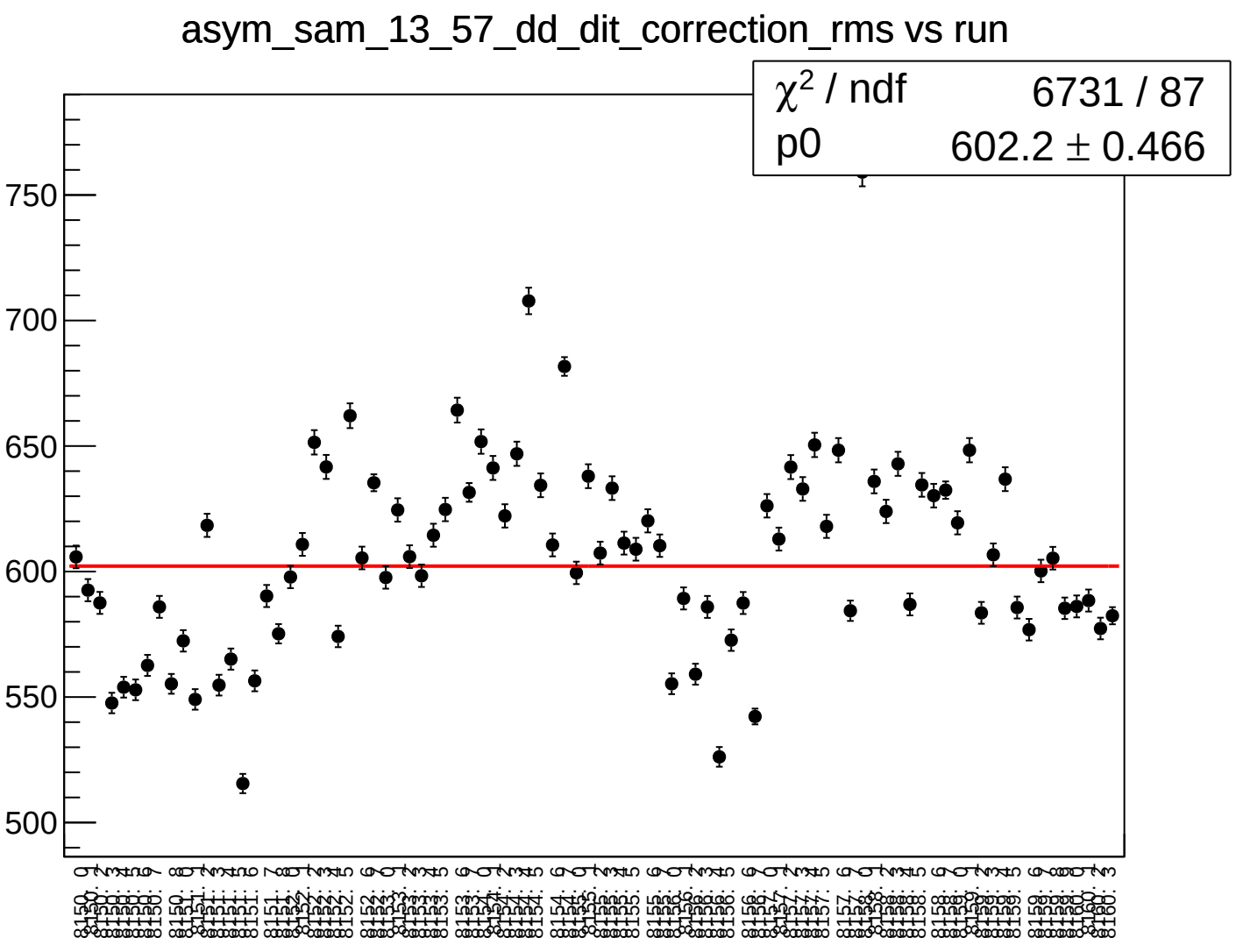

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 96.34 / 87
p0 −665.5 ± 669.5
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −5055
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0007234
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

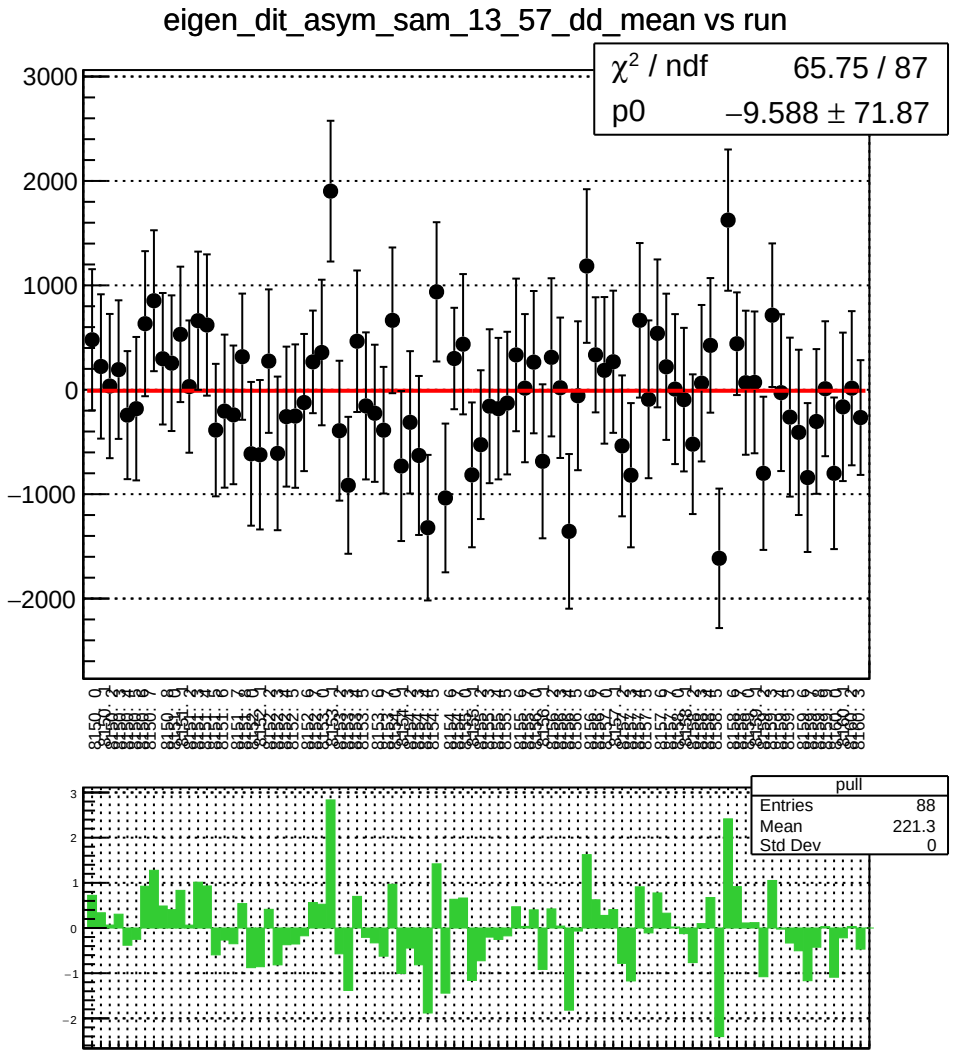

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 6608 / 87
p0 611.7 ± 0.4734
800
750
700
650
600
550
500

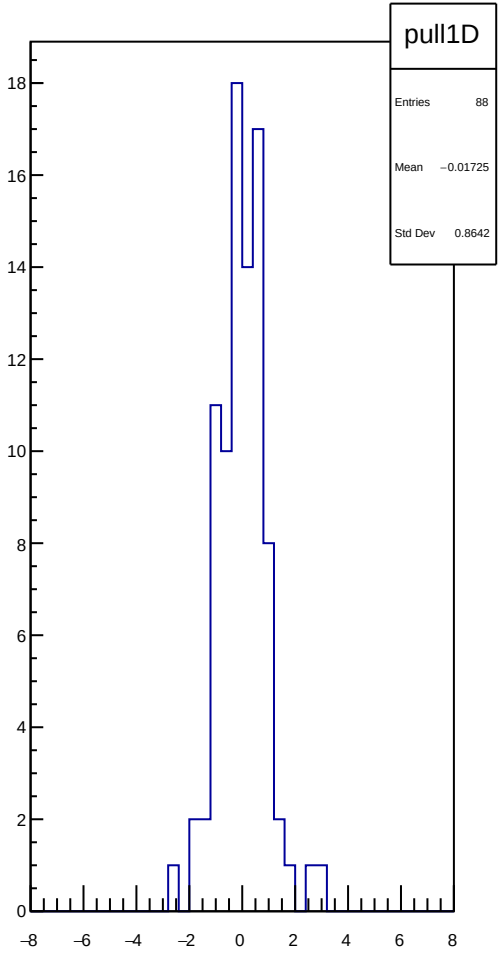

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 65.75 / 87
p0 −9.589 ± 71.87
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 221.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01725
Std Dev 0.8642
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

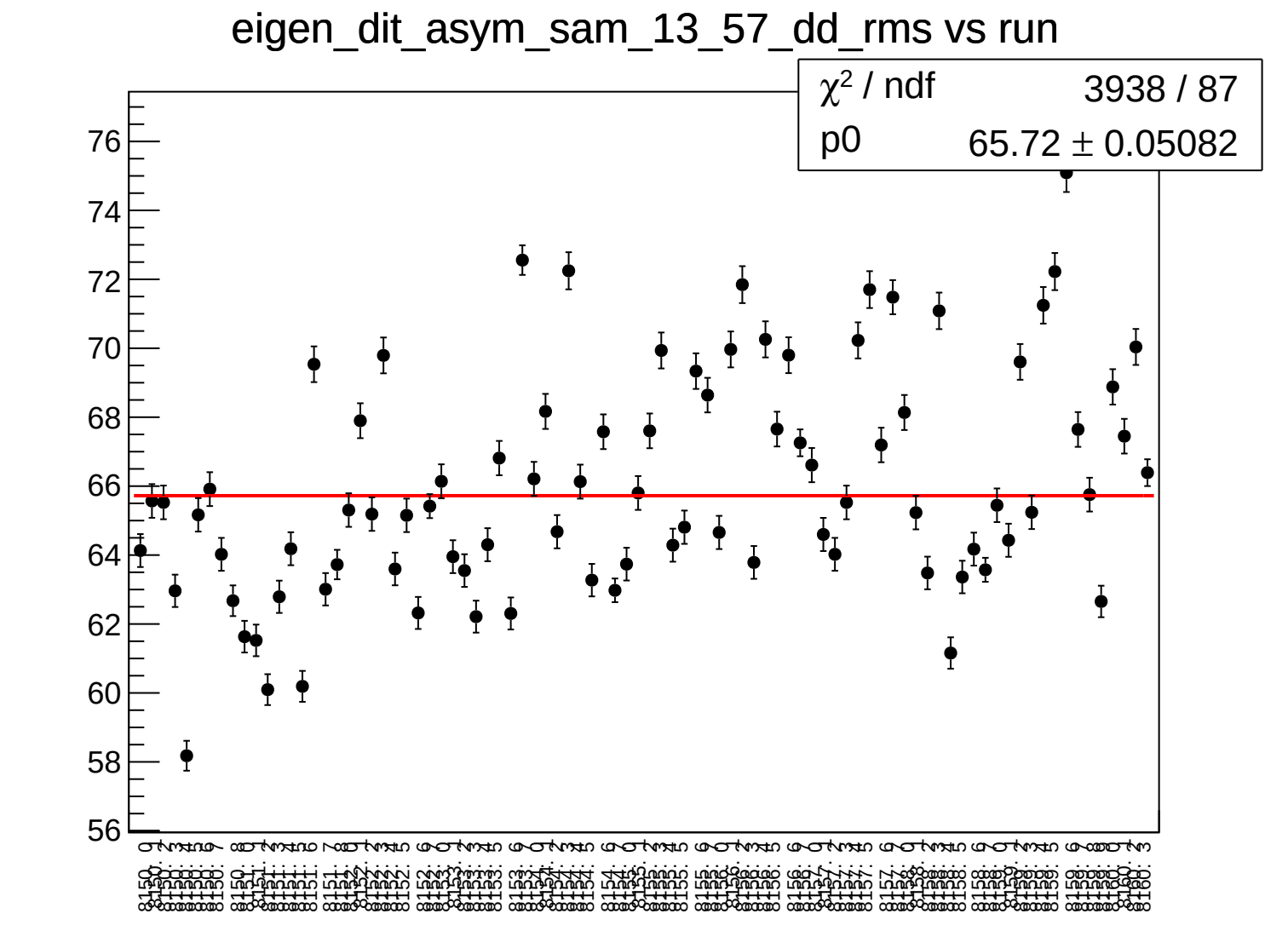

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 3938 / 87
p0 65.72 ± 0.05082
76
74
72
70
68
66
64
62
60
58
56

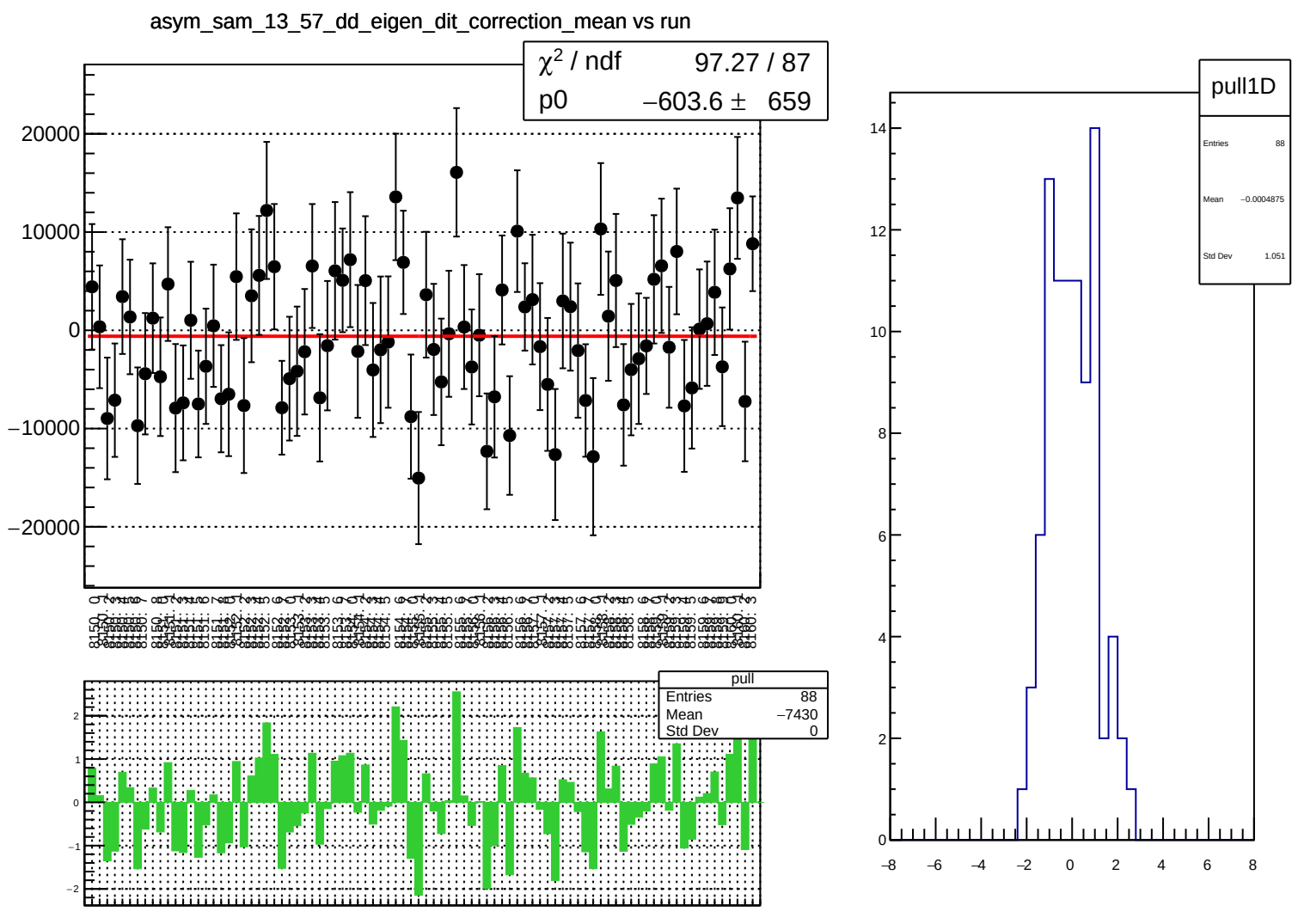

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 97.27 / 87
p0 −603.6 ± 659
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −7430
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0004875
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

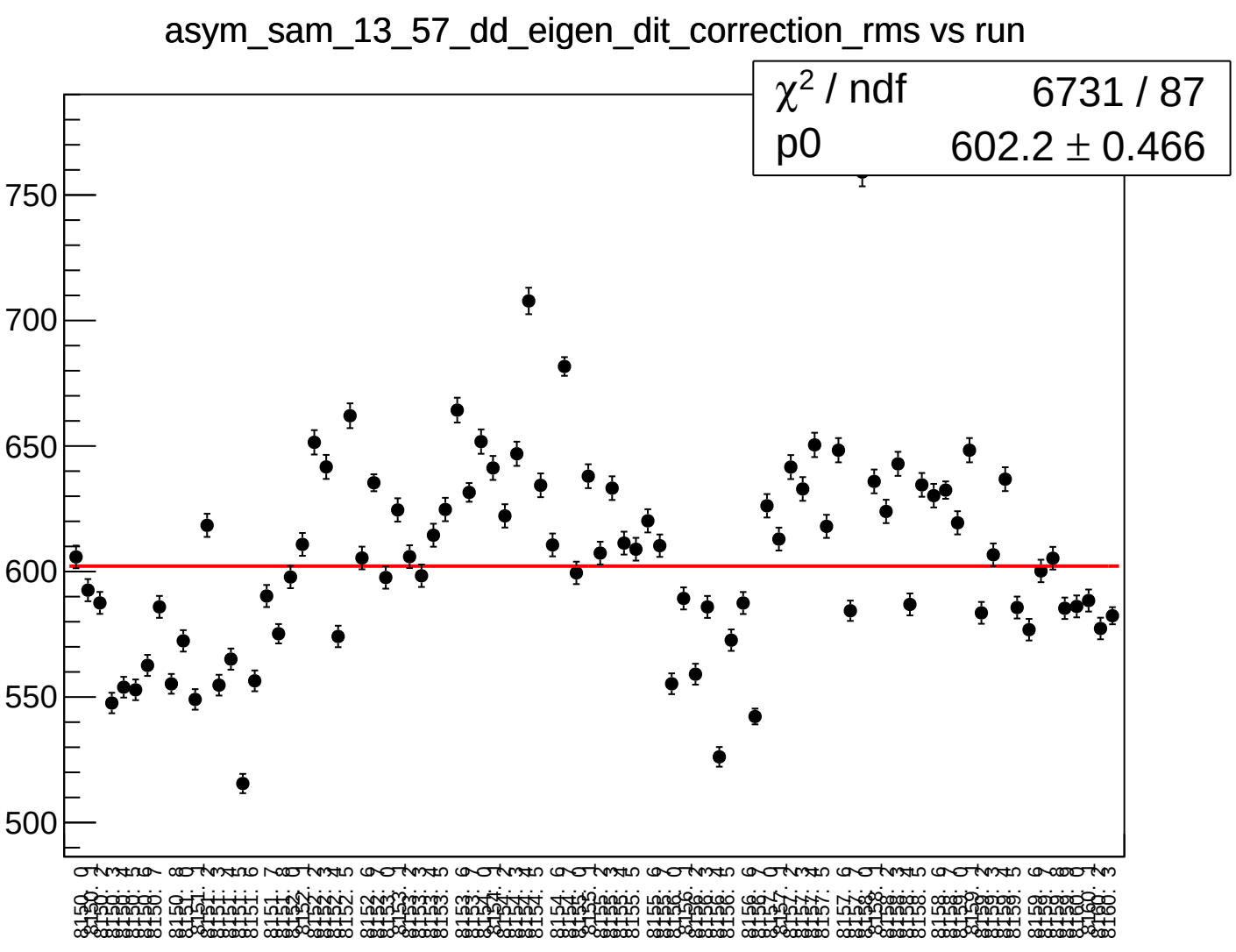

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 6731 / 87
p0 602.2 ± 0.466
750
700
650
600
550
500

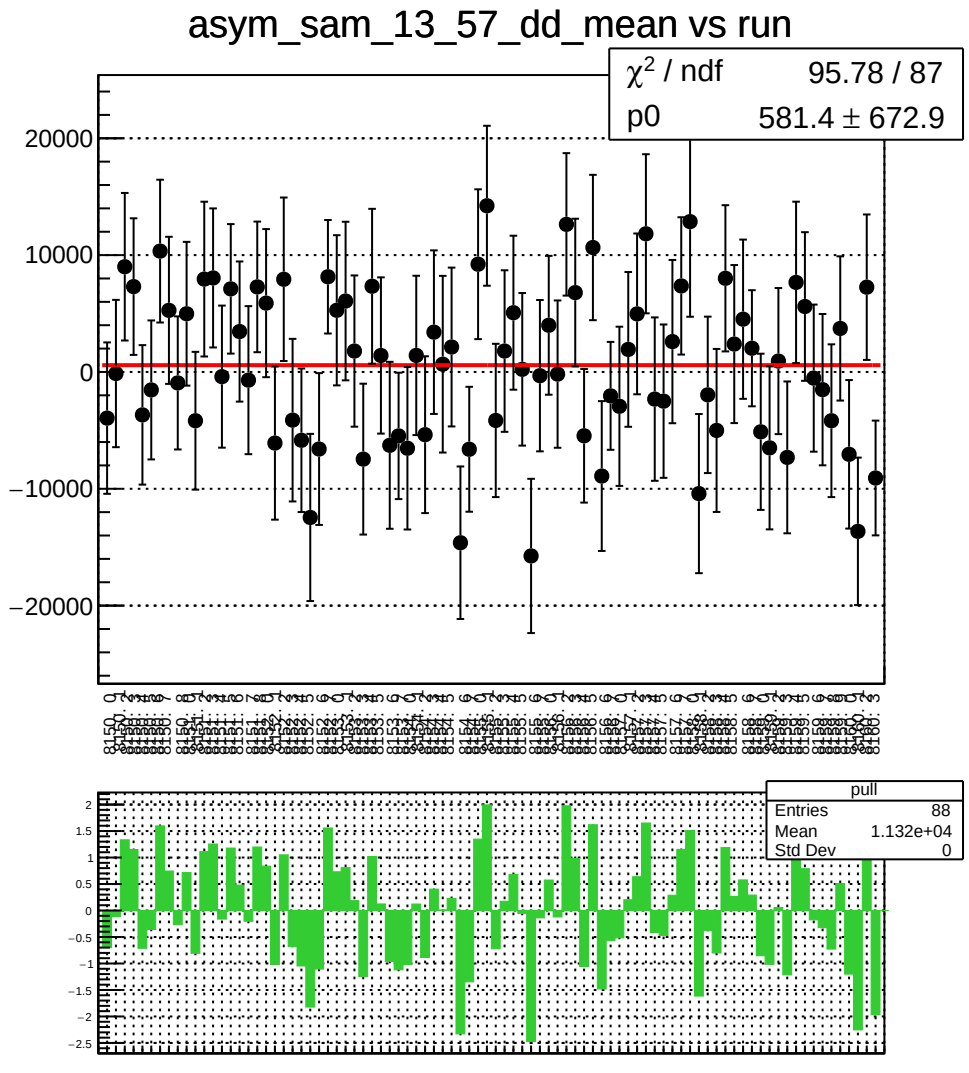

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 65.75 / 87
p0 −9.588 ± 71.87
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 221.3
Std Dev 0
3
2
1
0
−1
−2

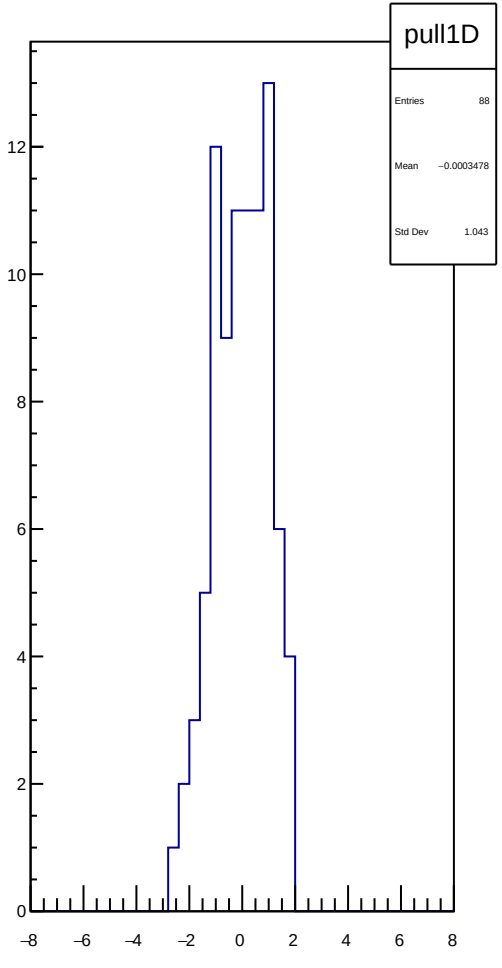

pull1D
Entries 88
Mean −0.01725
Std Dev 0.8642
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

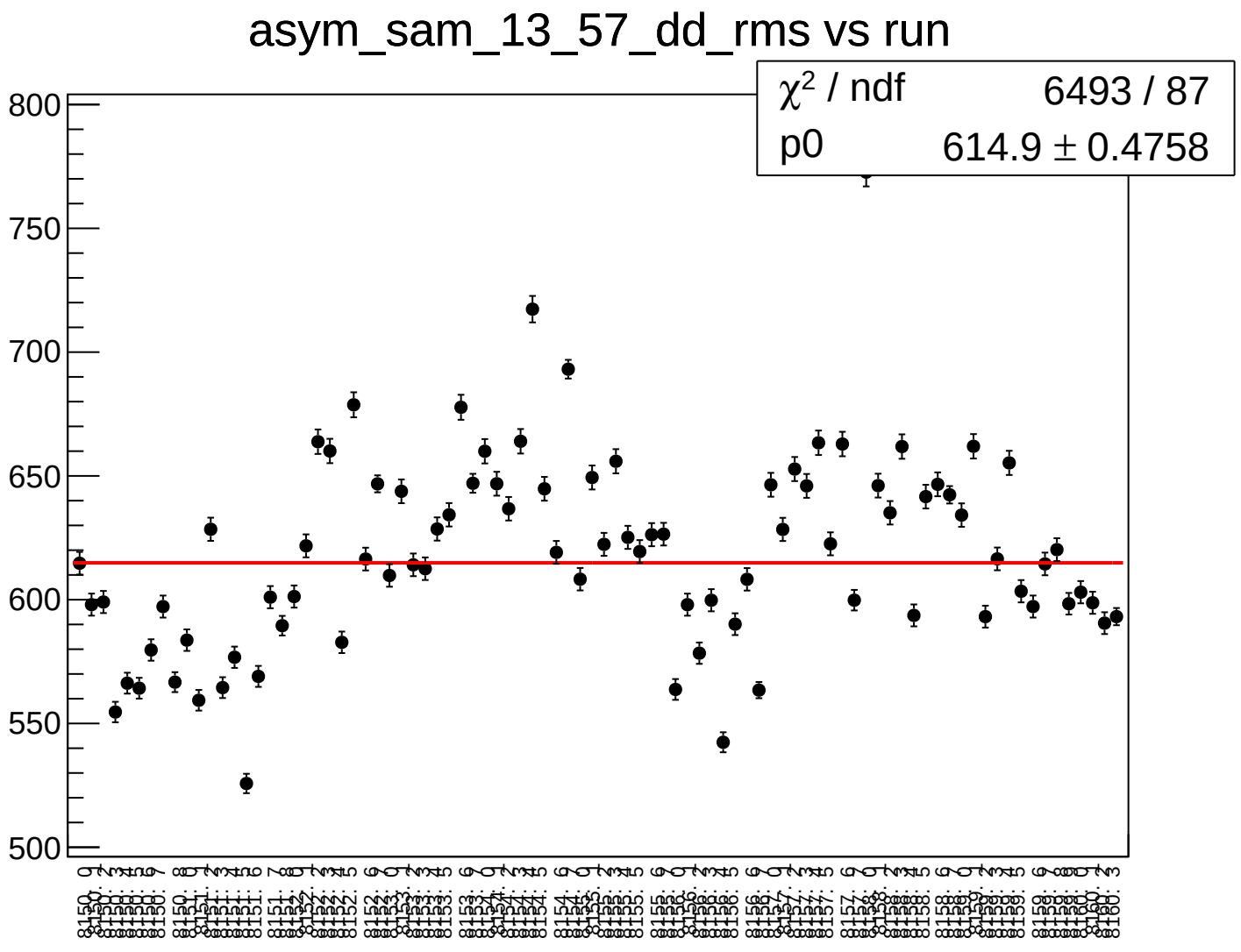

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 3938 / 87
p0 65.72 ± 0.05082
76
74
72
70
68
66
64
62
60
58
56

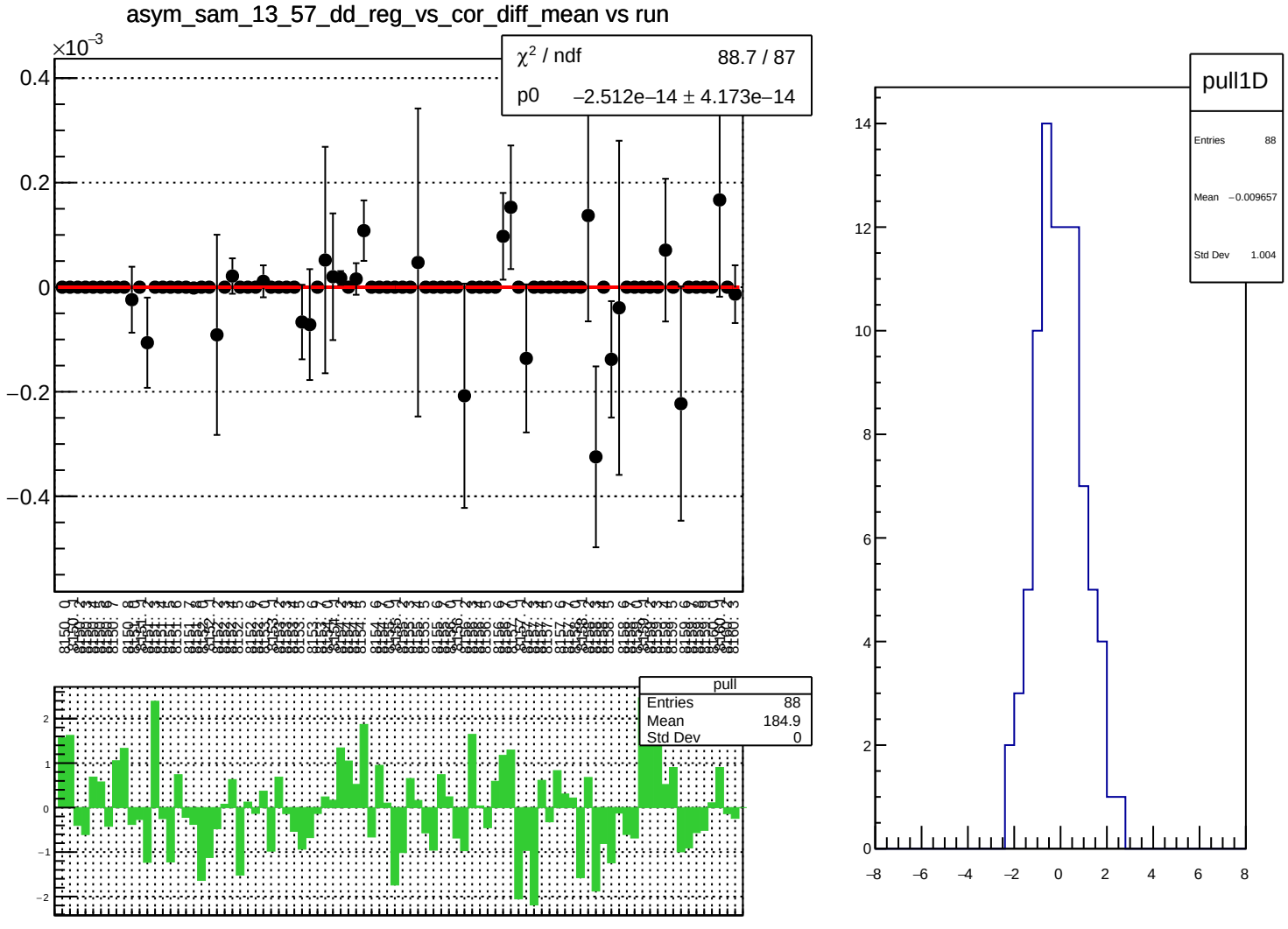

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.27 / 87
p0 −603.6 ± 659
20000
10000
0
−10000
−20000
pull
Entries 88
Mean −7430
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0004875
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

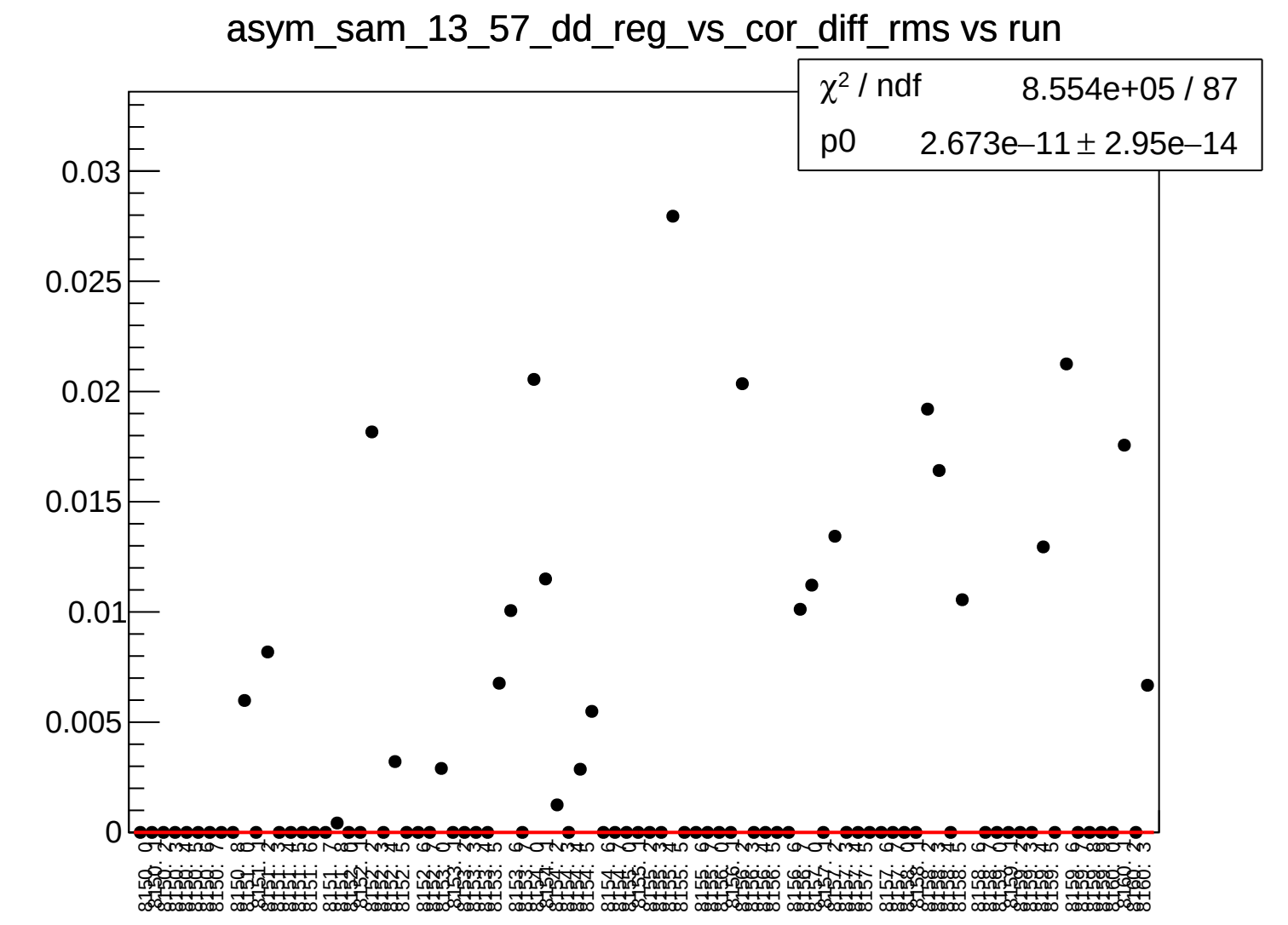

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 6731 / 87
p0 602.2 ± 0.466
750
700
650
600
550
500

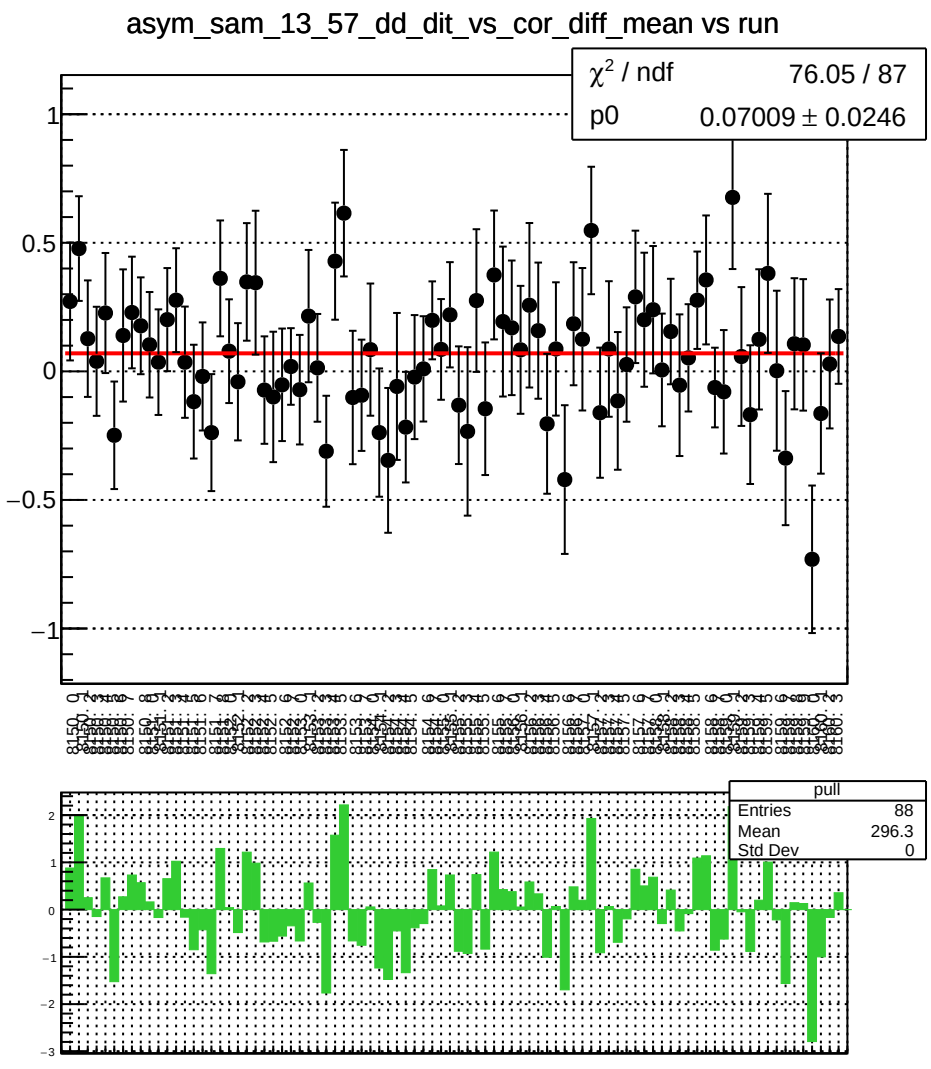

asym_sam_13_57_dd_mean vs run
χ² / ndf 95.78 / 87
p0 581.4 ± 672.9
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 1.132e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

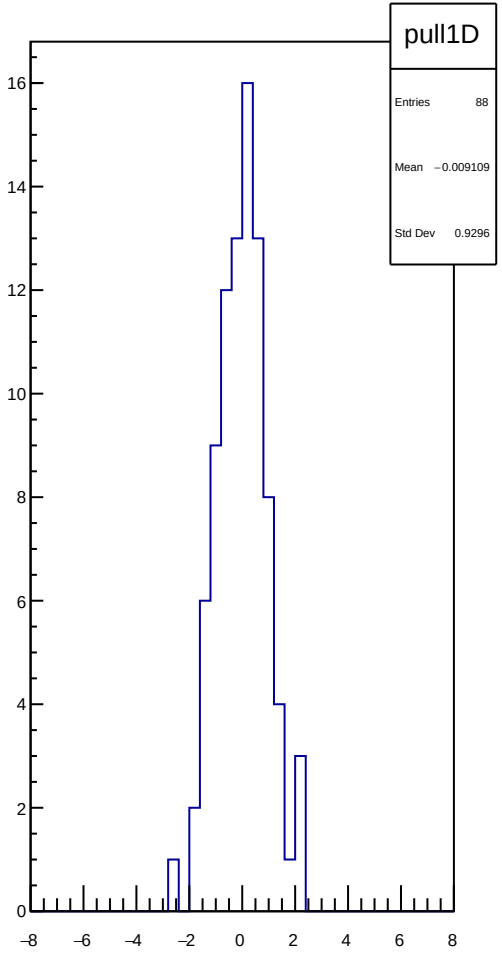

pull1D
Entries 88
Mean −0.0003478
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

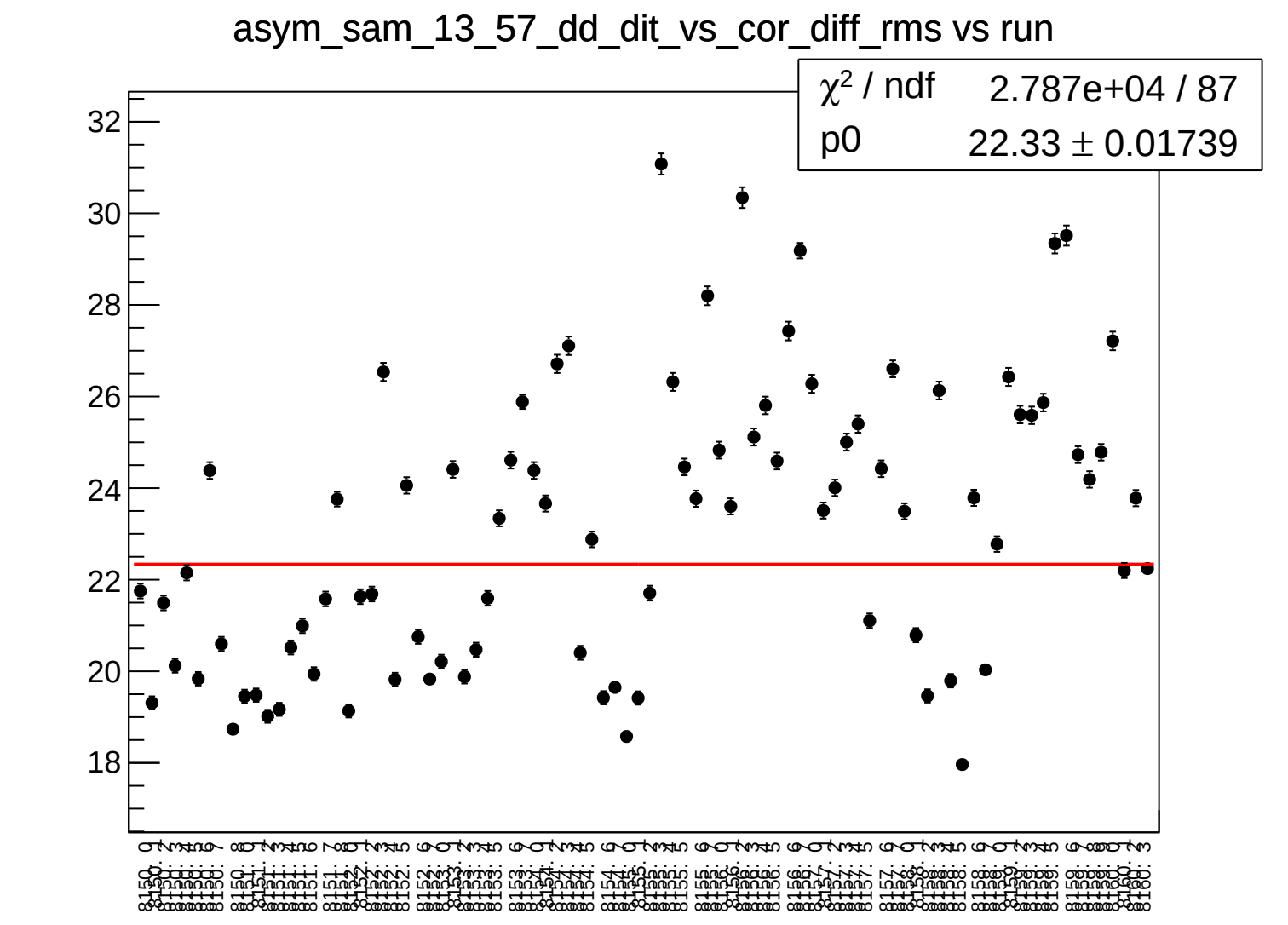

asym_sam_13_57_dd_rms vs run
χ² / ndf 6493 / 87
p0 614.9 ± 0.4758
800
750
700
650
600
550
500

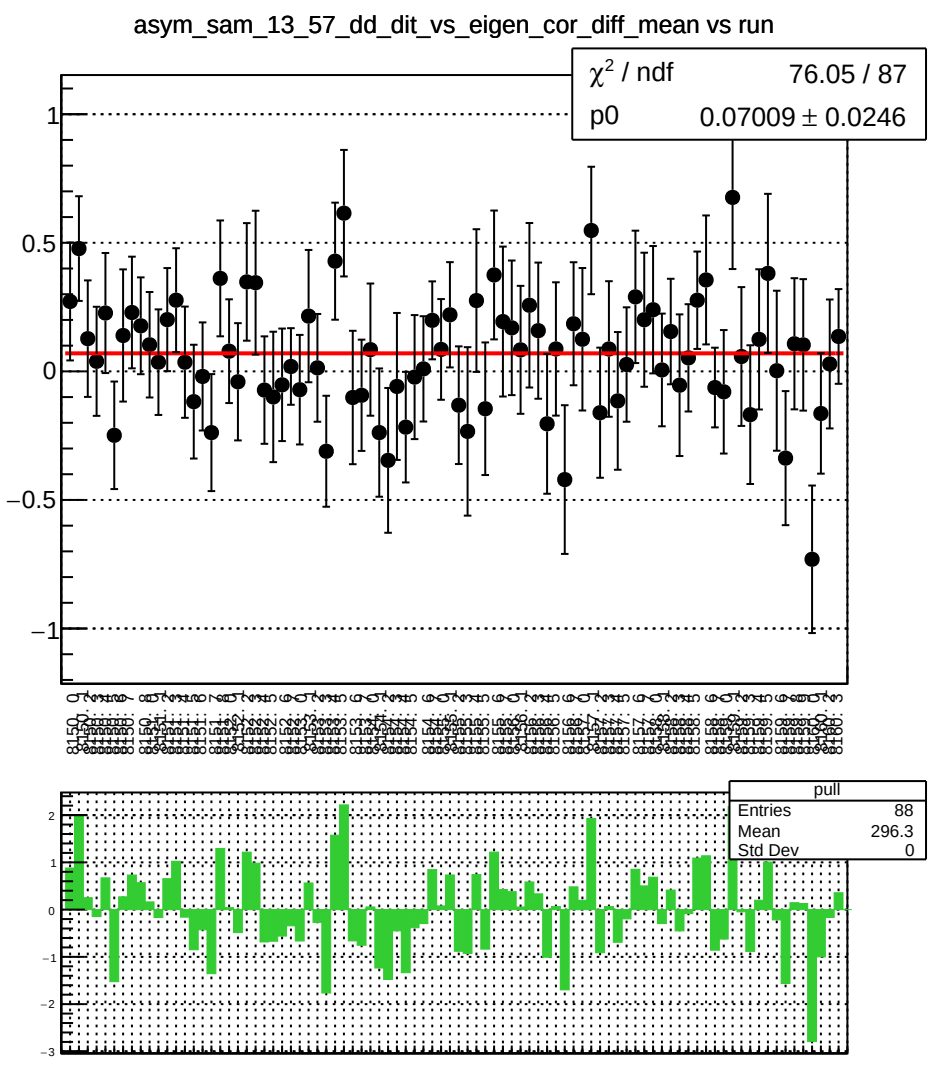

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 88.7 / 87
p0 −2.512e−14 ± 4.173e−14
0.4
0.2
0
−0.2
−0.4
pull
Entries 88
Mean 184.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.009657
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

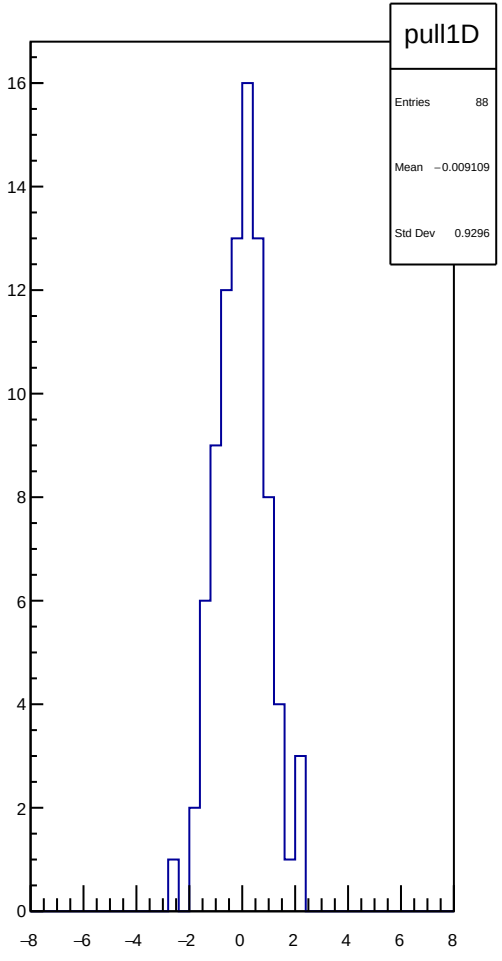

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.554e+05 / 87
p0 2.673e−11 ± 2.95e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

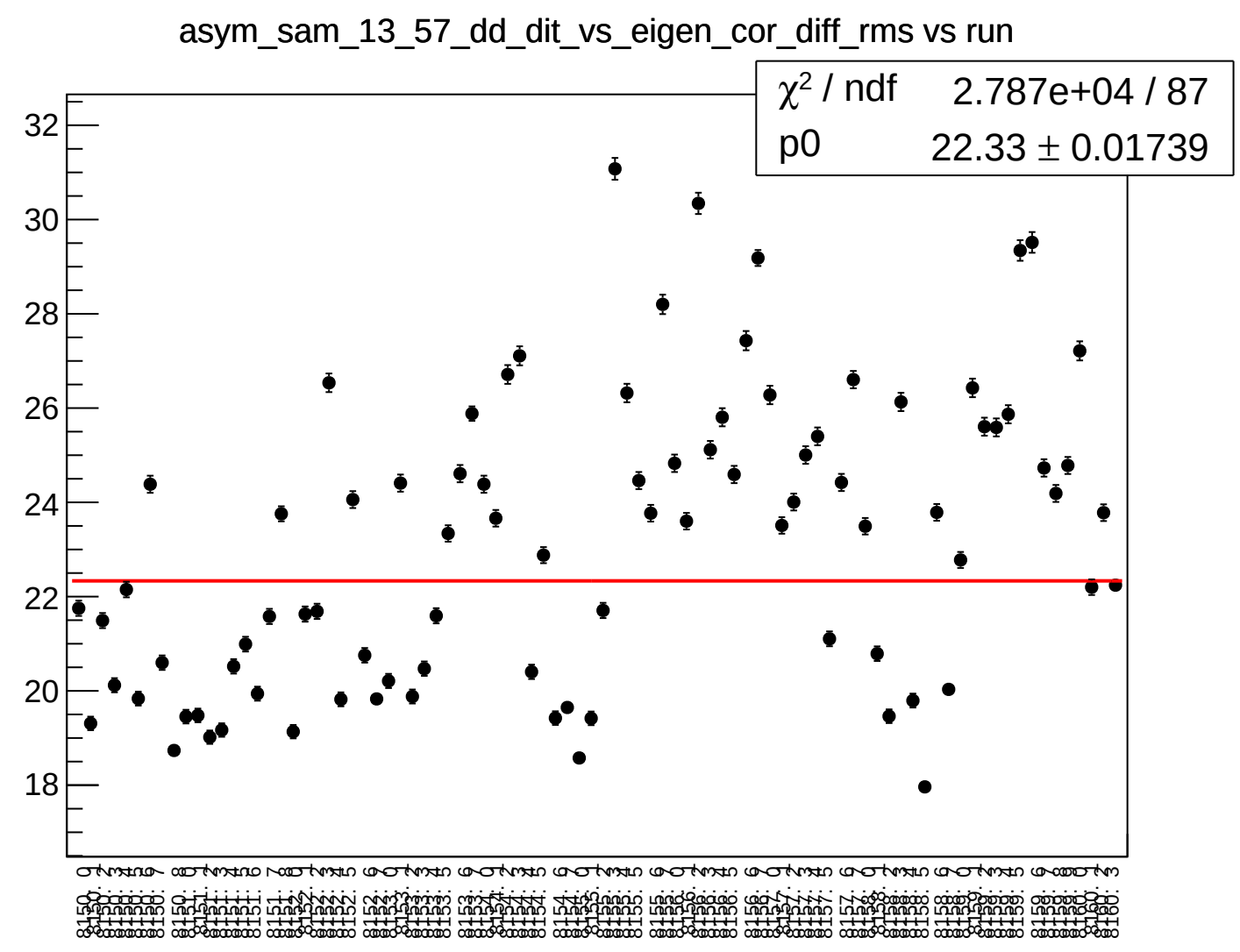

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.05 / 87
p0 0.07009 ± 0.0246
pull
Entries 88
Mean 296.3
Std Dev 0

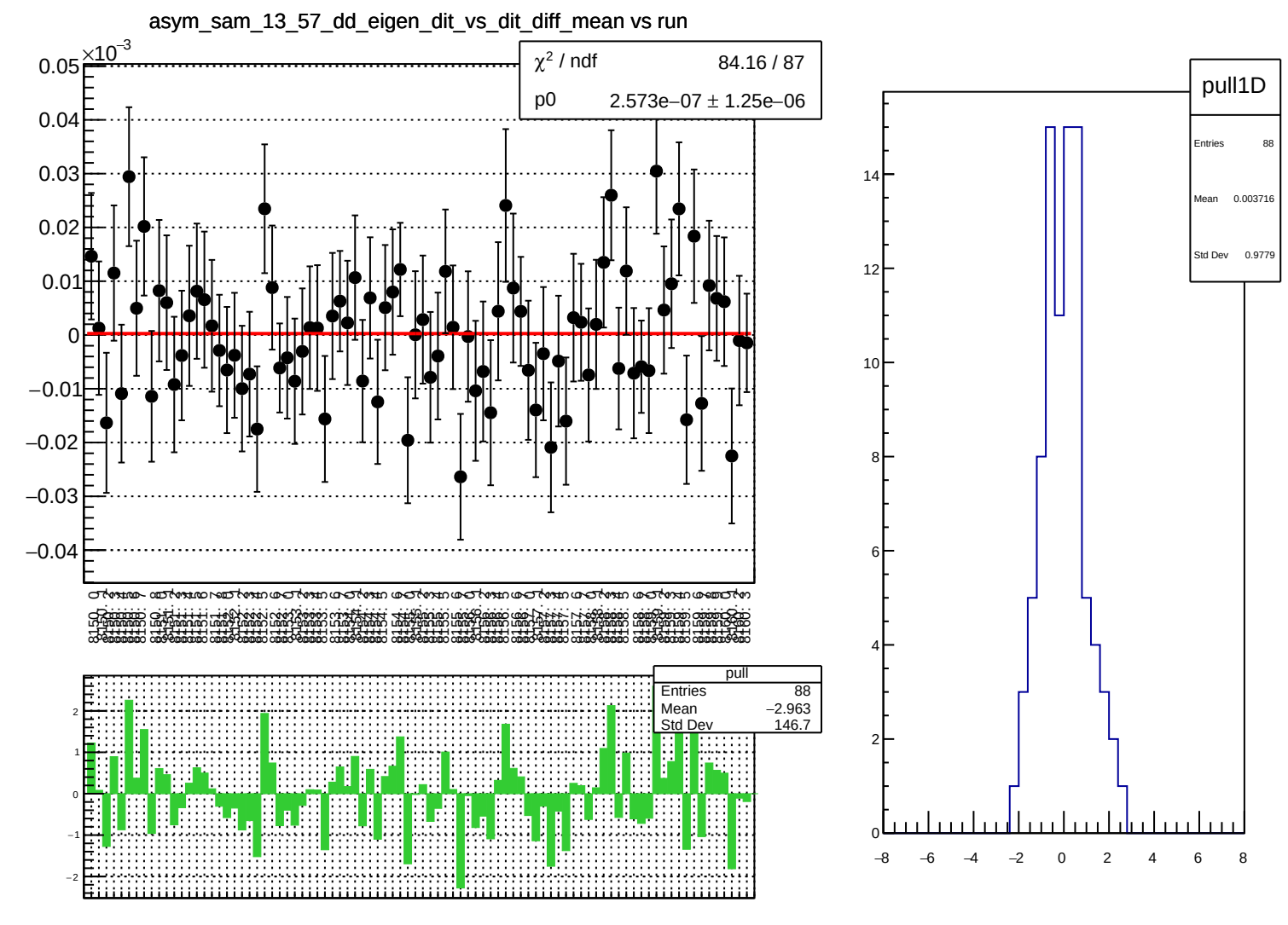

pull1D
Entries 88
Mean −0.009109
Std Dev 0.9296

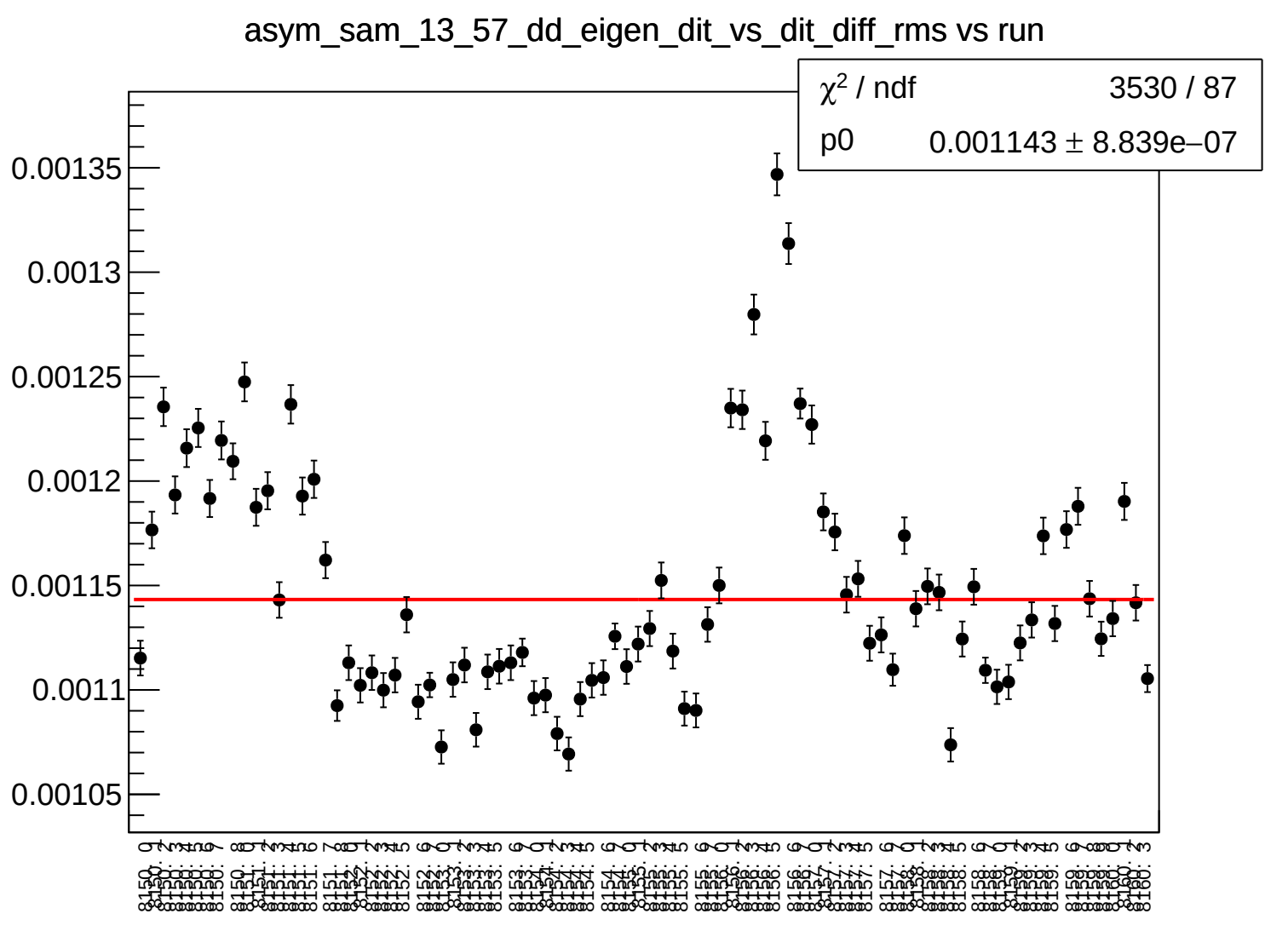

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.787e+04 / 87
p0 22.33 ± 0.01739
32
30
28
26
24
22
20
18

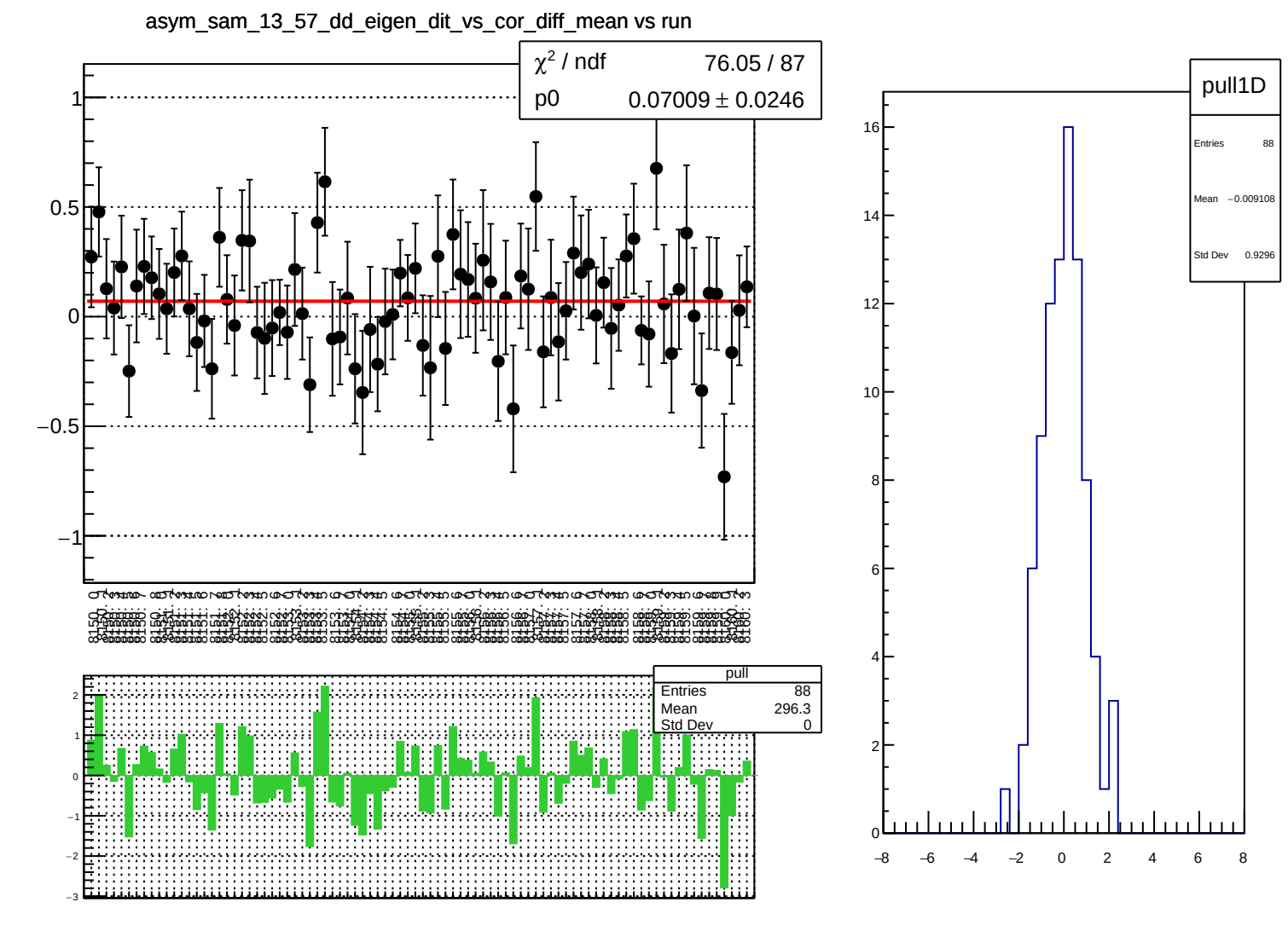

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.05 / 87
p0 0.07009 ± 0.0246
pull
Entries 88
Mean 296.3
Std Dev 0

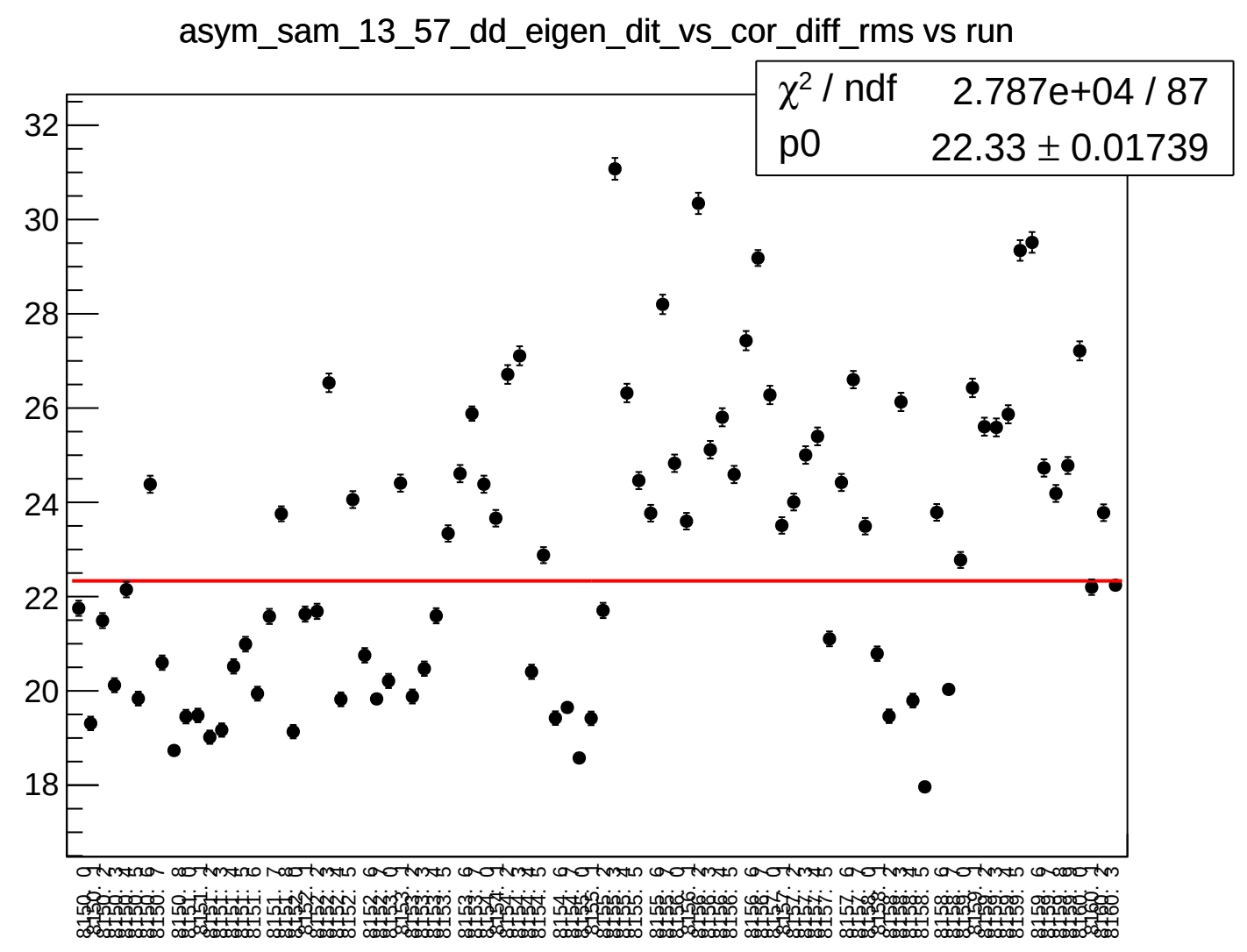

pull1D
Entries 88
Mean −0.009109
Std Dev 0.9296

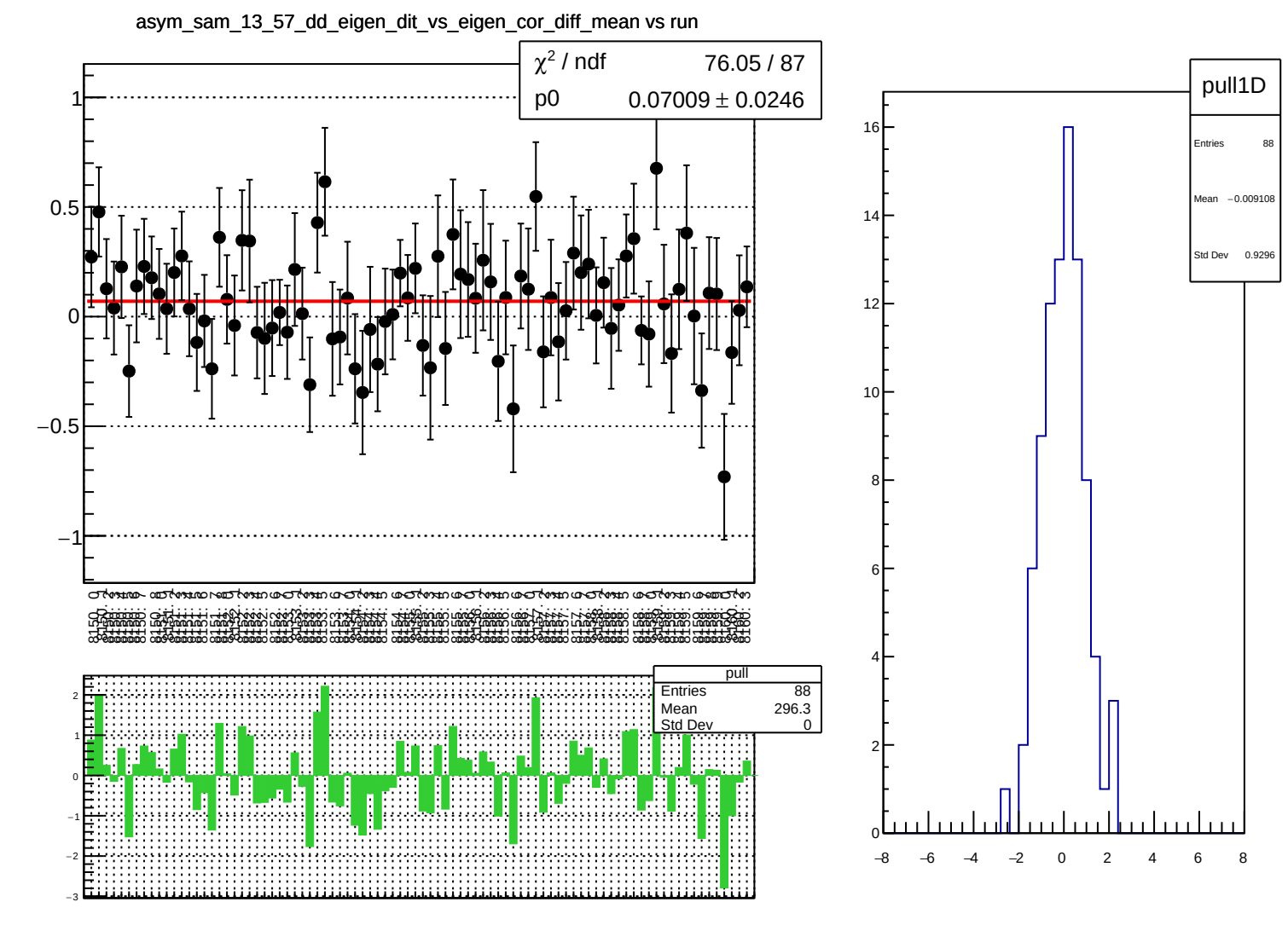

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.787e+04 / 87
p0 22.33 ± 0.01739
32
30
28
26
24
22
20
18

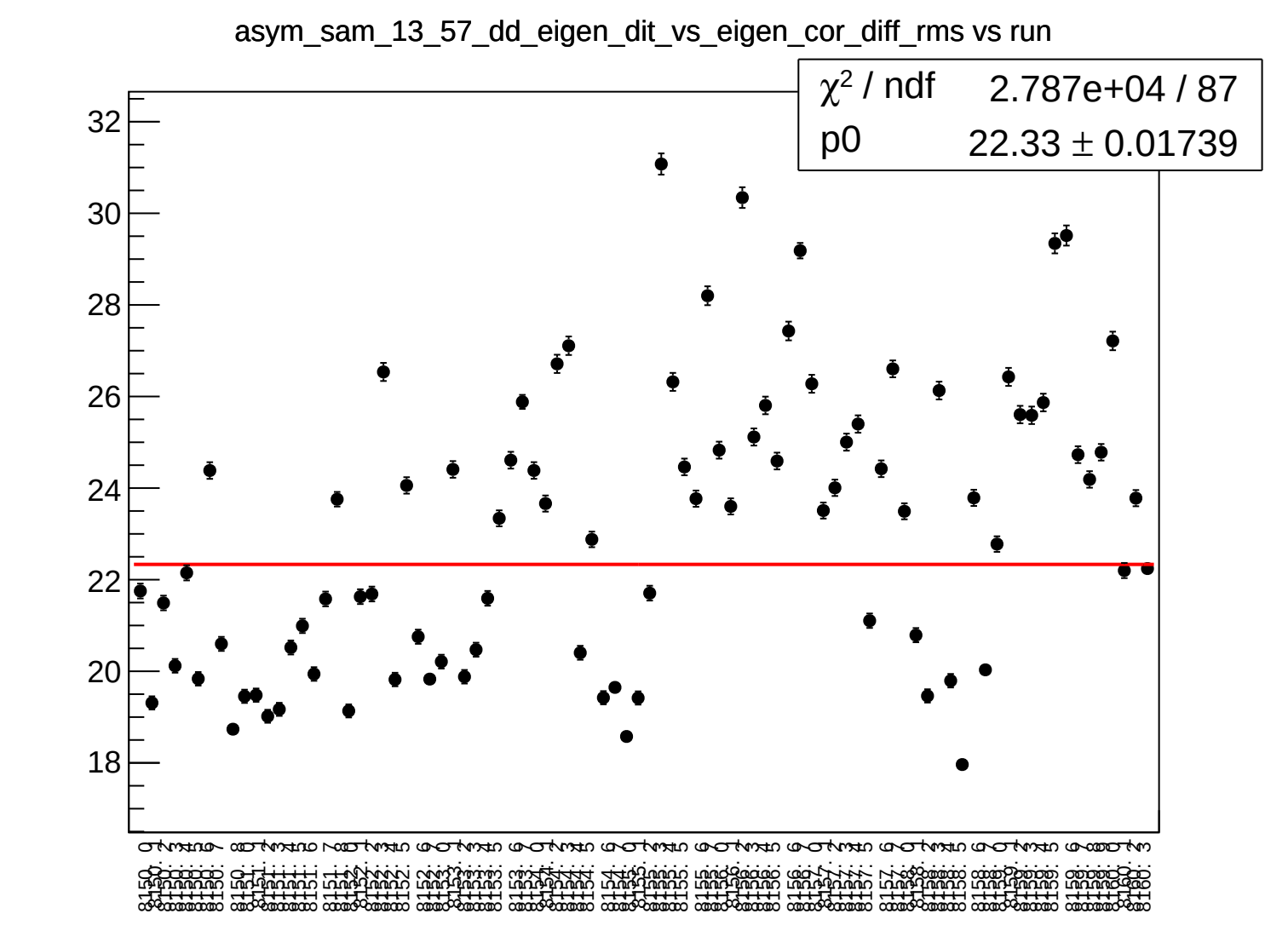

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 84.16 / 87
p0 2.573e−07 ± 1.25e−06
pull
Entries 88
Mean −2.963
Std Dev 146.7
pull1D
Entries 88
Mean 0.003716
Std Dev 0.9779

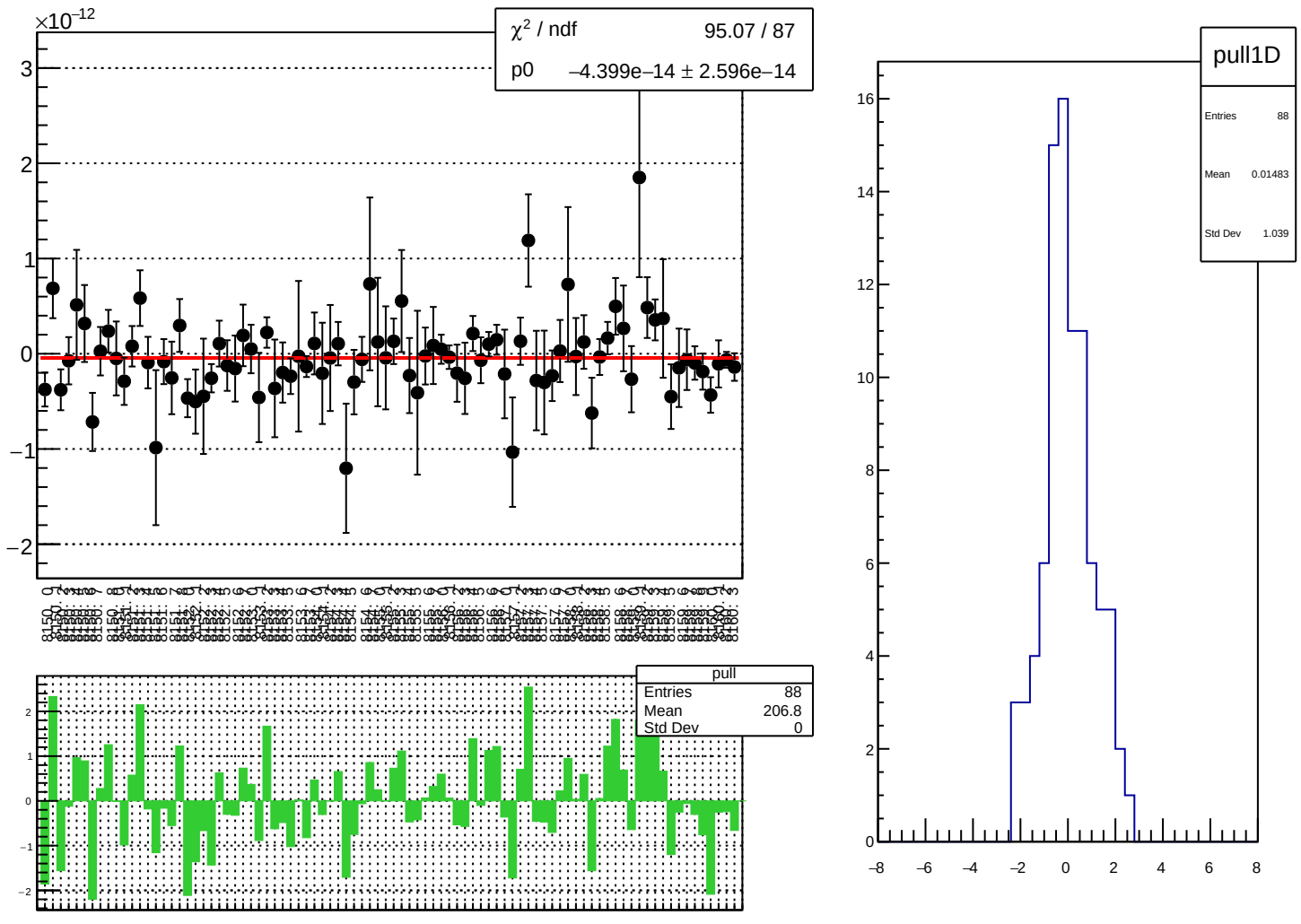

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3530 / 87
p0 0.001143 ± 8.839e−07
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105

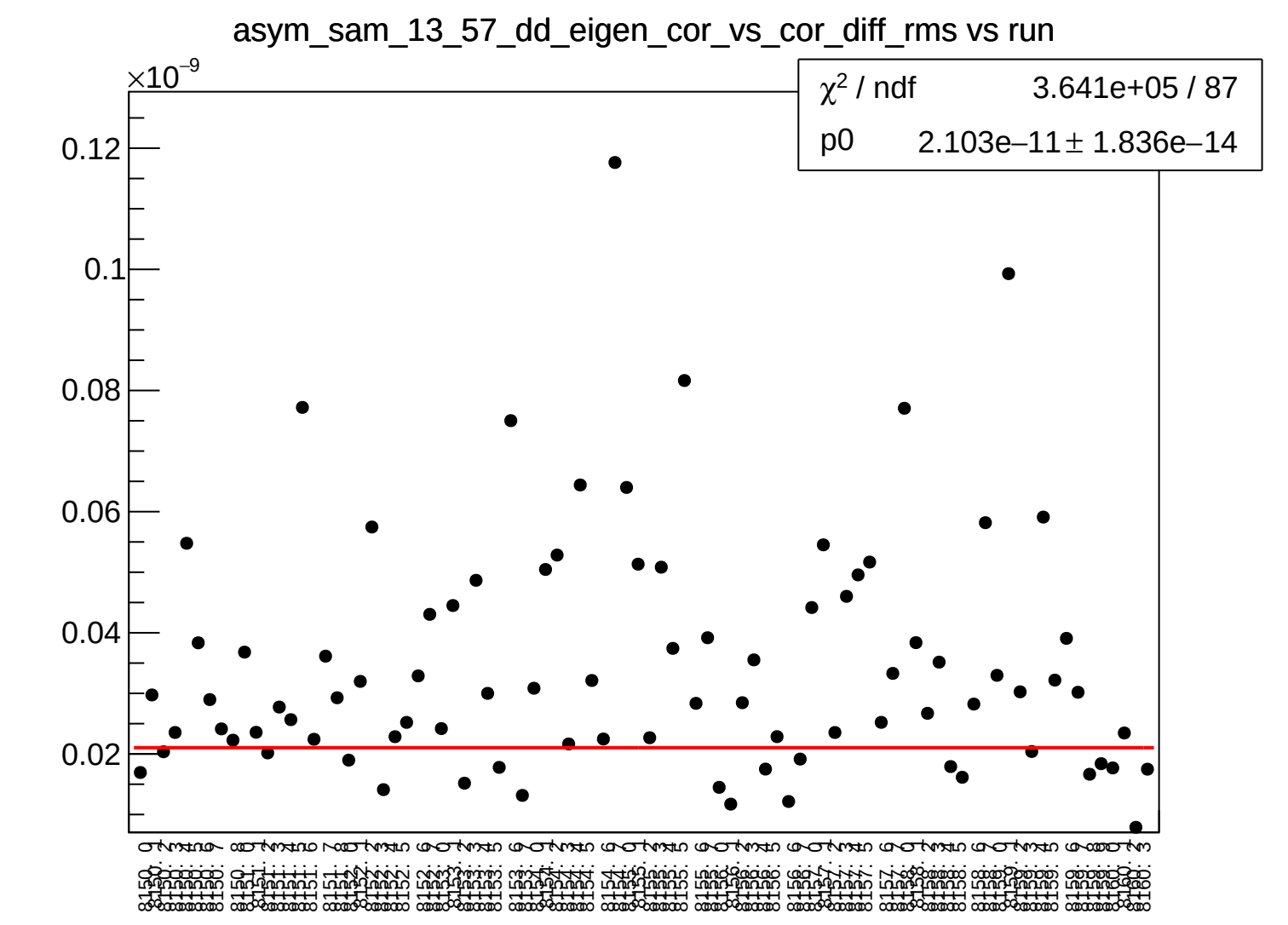

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.05 / 87
p0 0.07009 ± 0.0246
pull
Entries 88
Mean 296.3
Std Dev 0
pull1D
Entries 88
Mean −0.009108
Std Dev 0.9296

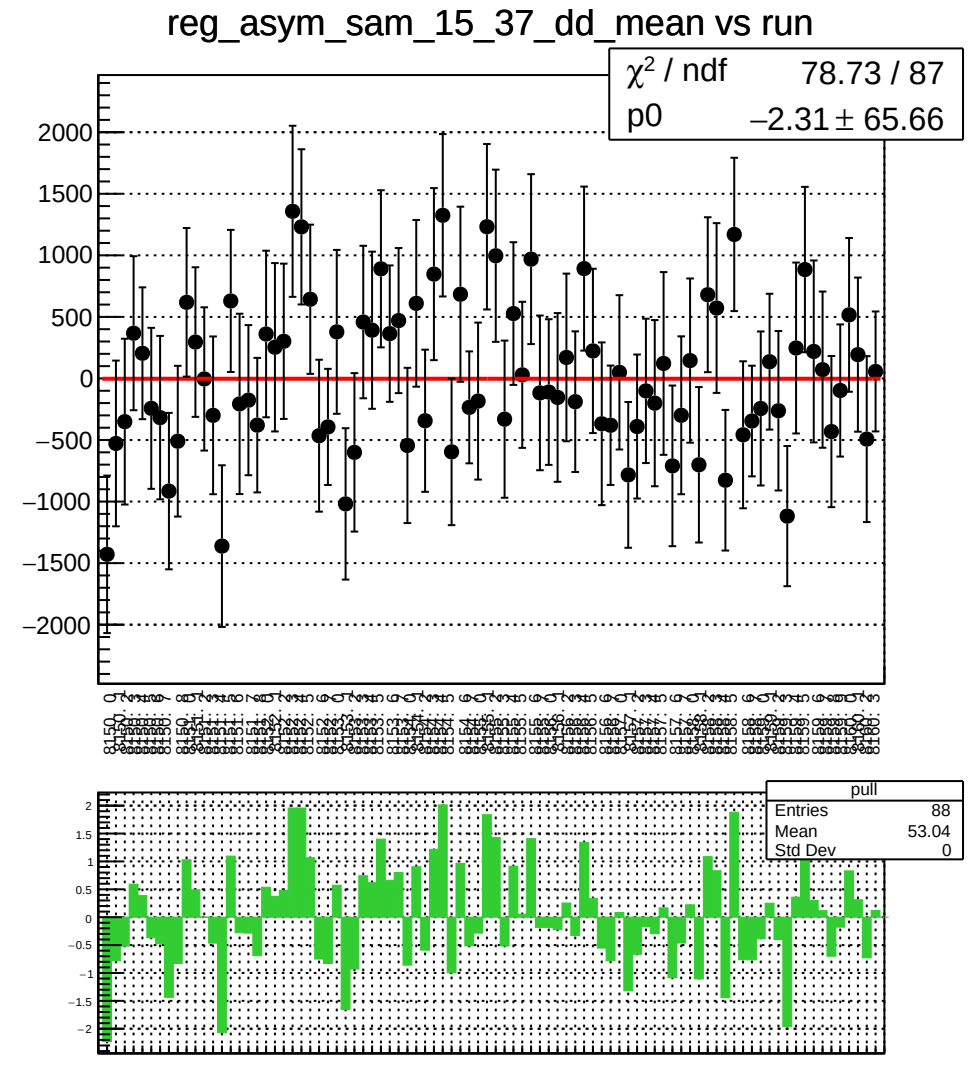

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.787e+04 / 87
p0 22.33 ± 0.01739
32
30
28
26
24
22
20
18

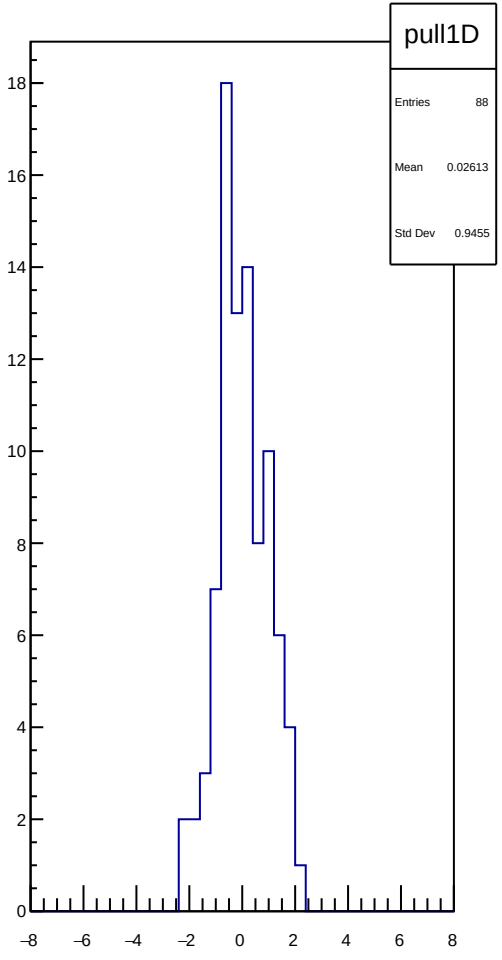

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.05 / 87
p0 0.07009 ± 0.0246
pull
Entries 88
Mean 296.3
Std Dev 0
pull1D
Entries 88
Mean −0.009108
Std Dev 0.9296

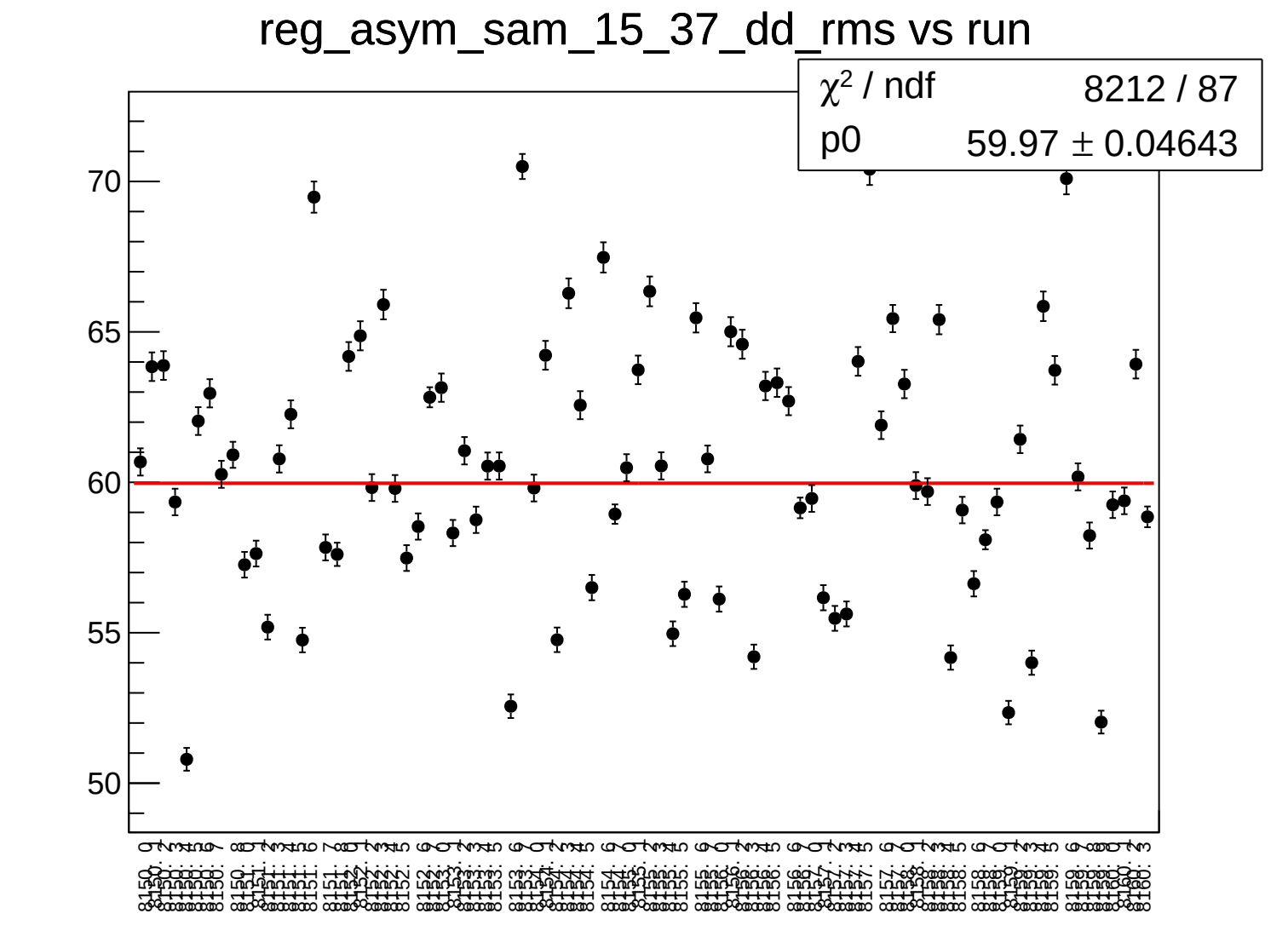

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.787e+04 / 87
p0 22.33 ± 0.01739
32
30
28
26
24
22
20
18

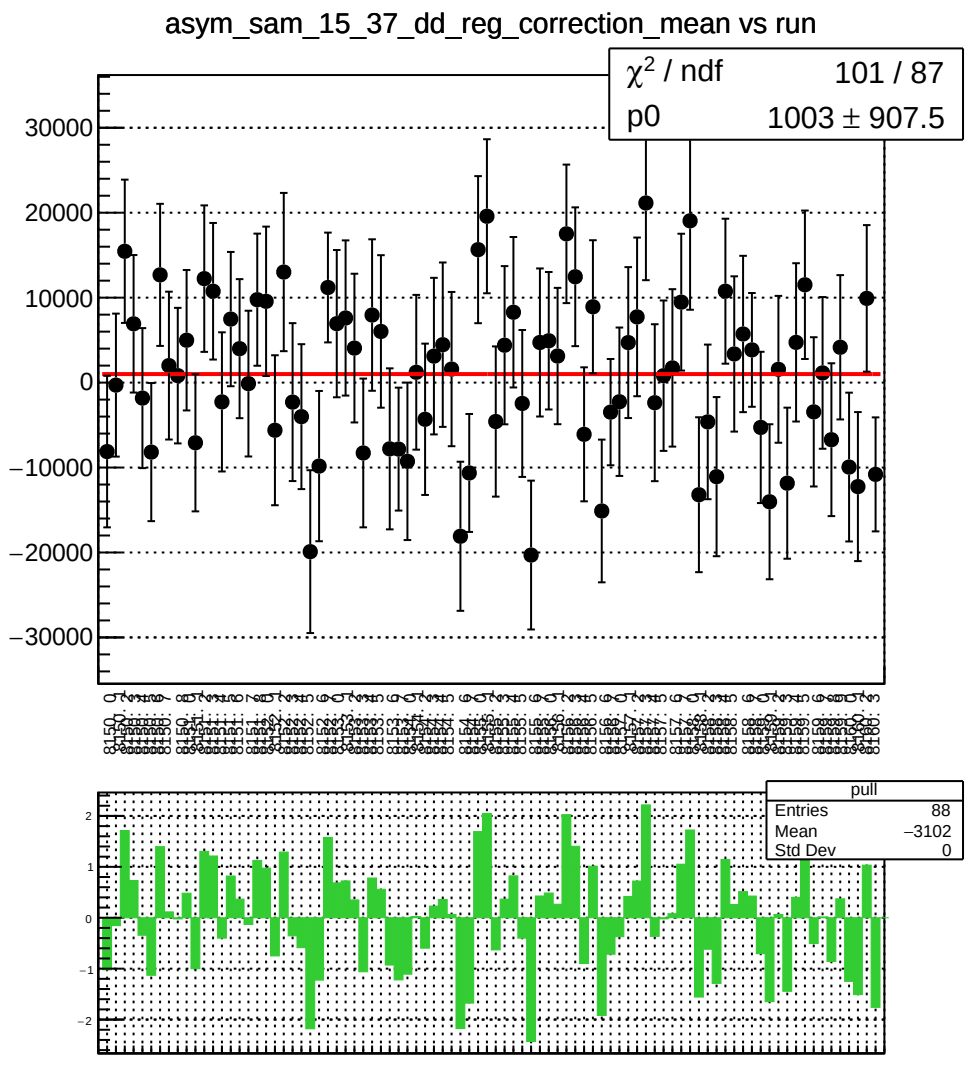

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 95.07 / 87
p0 −4.399e−14 ± 2.596e−14
pull
Entries 88
Mean 206.8
Std Dev 0
pull1D
Entries 88
Mean 0.01483
Std Dev 1.039

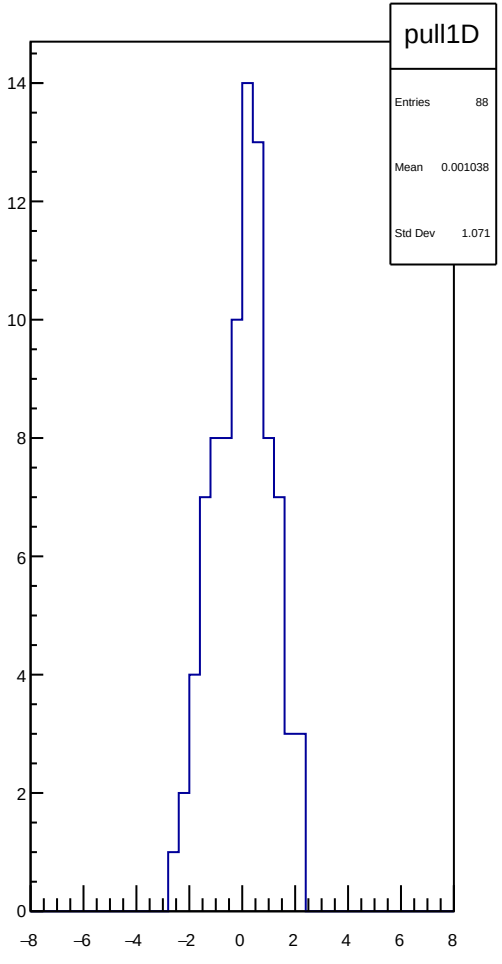

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.641e+05 / 87
p0 2.103e−11 ± 1.836e−14
0.12
0.1
0.08
0.06
0.04
0.02

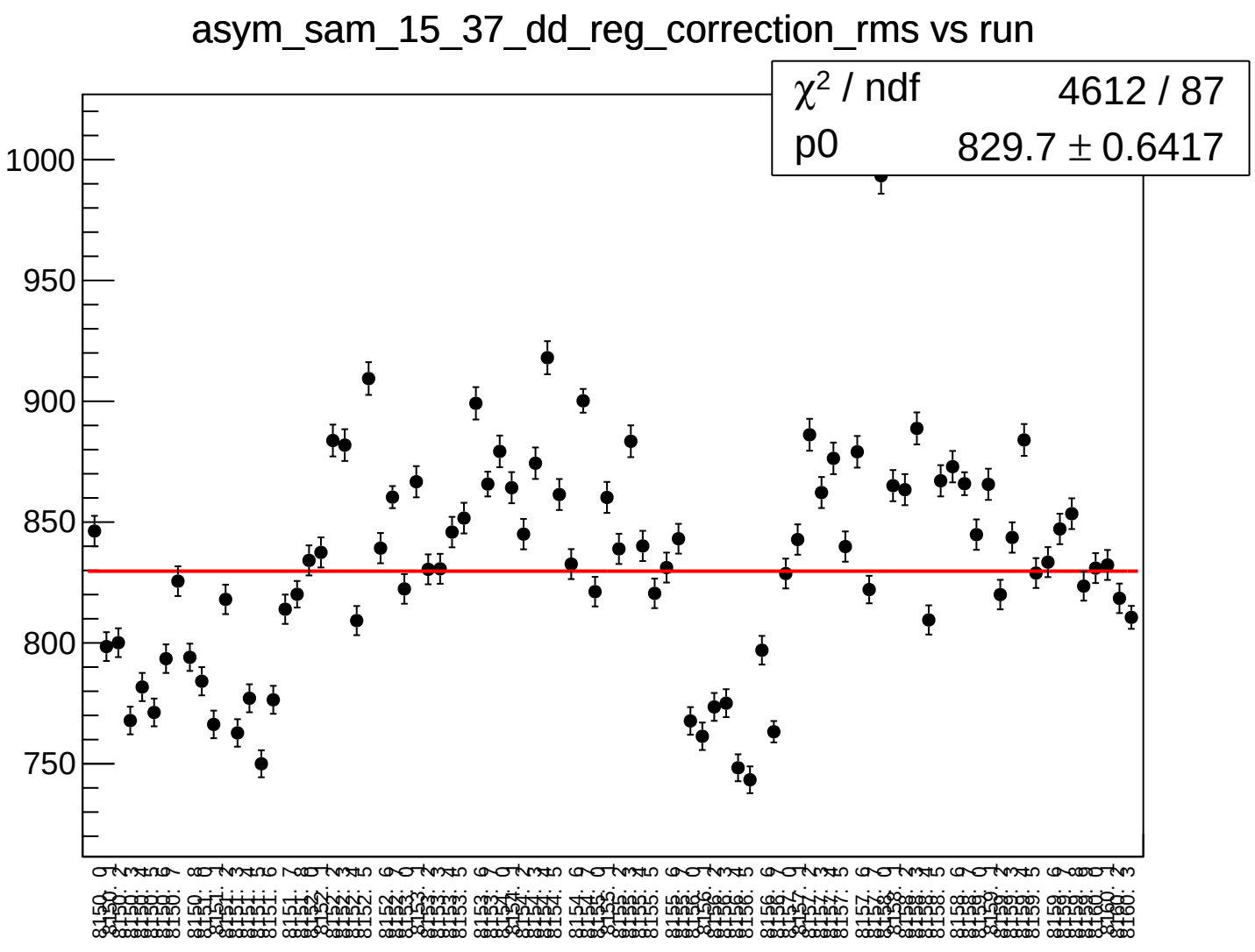

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 78.73 / 87
p0 −2.31 ± 65.66
pull
Entries 88
Mean 53.04
Std Dev 0

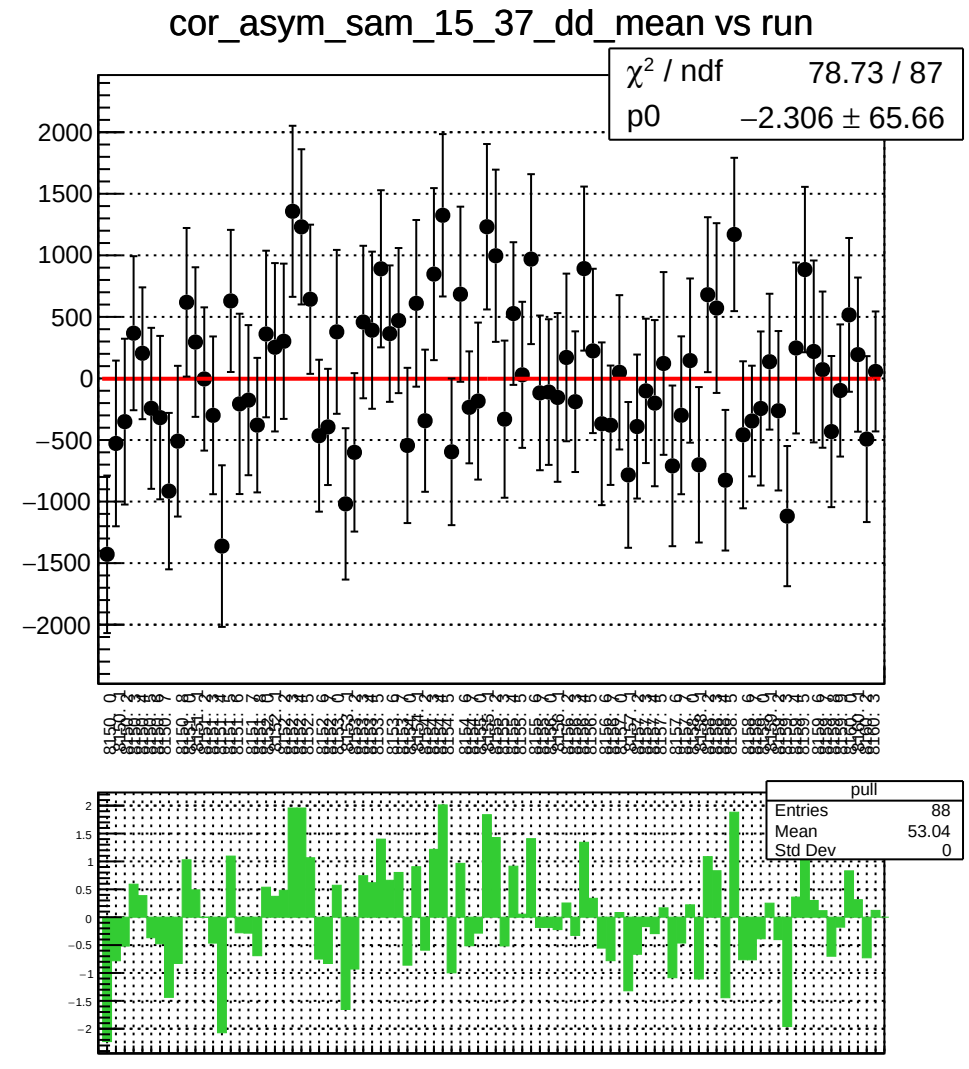

pull1D
Entries 88
Mean 0.02613
Std Dev 0.9455

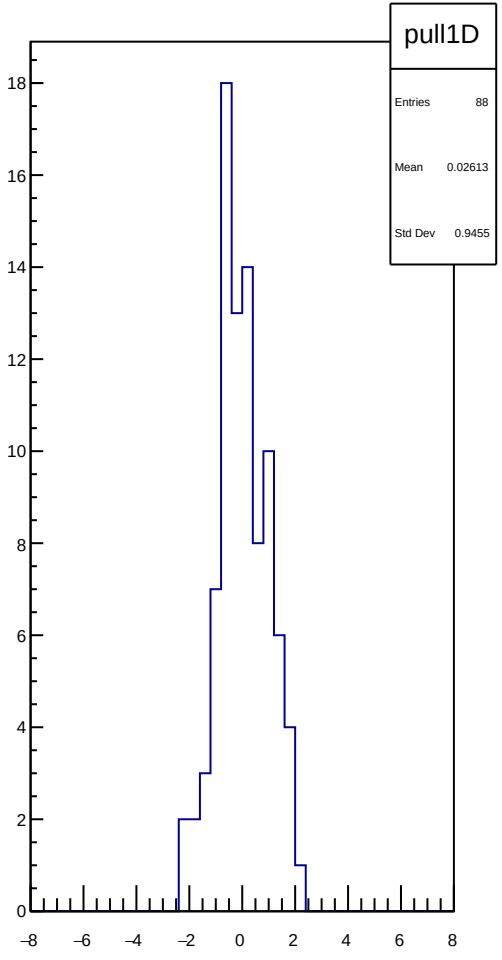

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 8212 / 87
p0 59.97 ± 0.04643
70
65
60
55
50

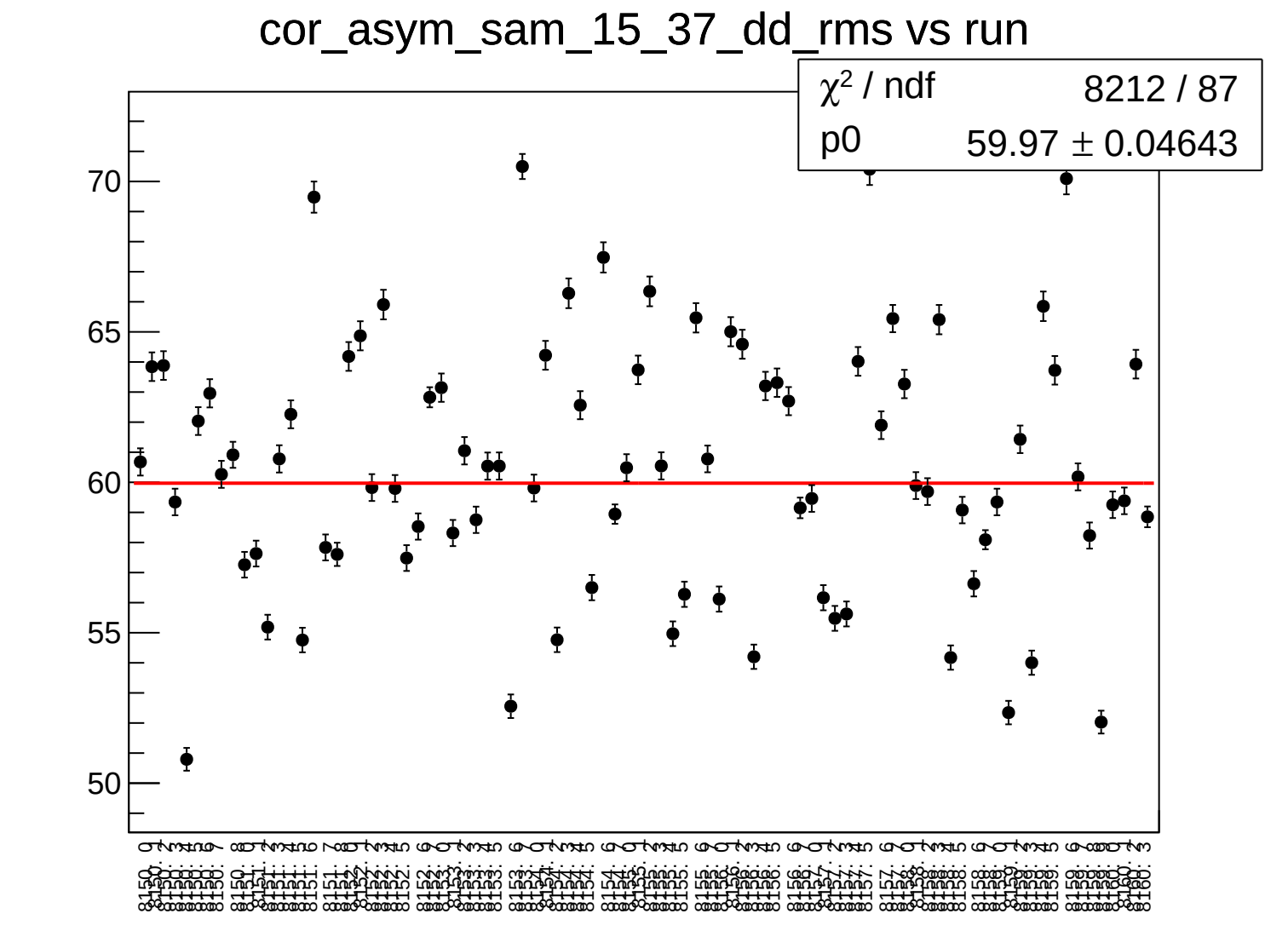

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 101 / 87
p0 1003 ± 907.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −3102
Std Dev 0
2
1
0
−1
−2

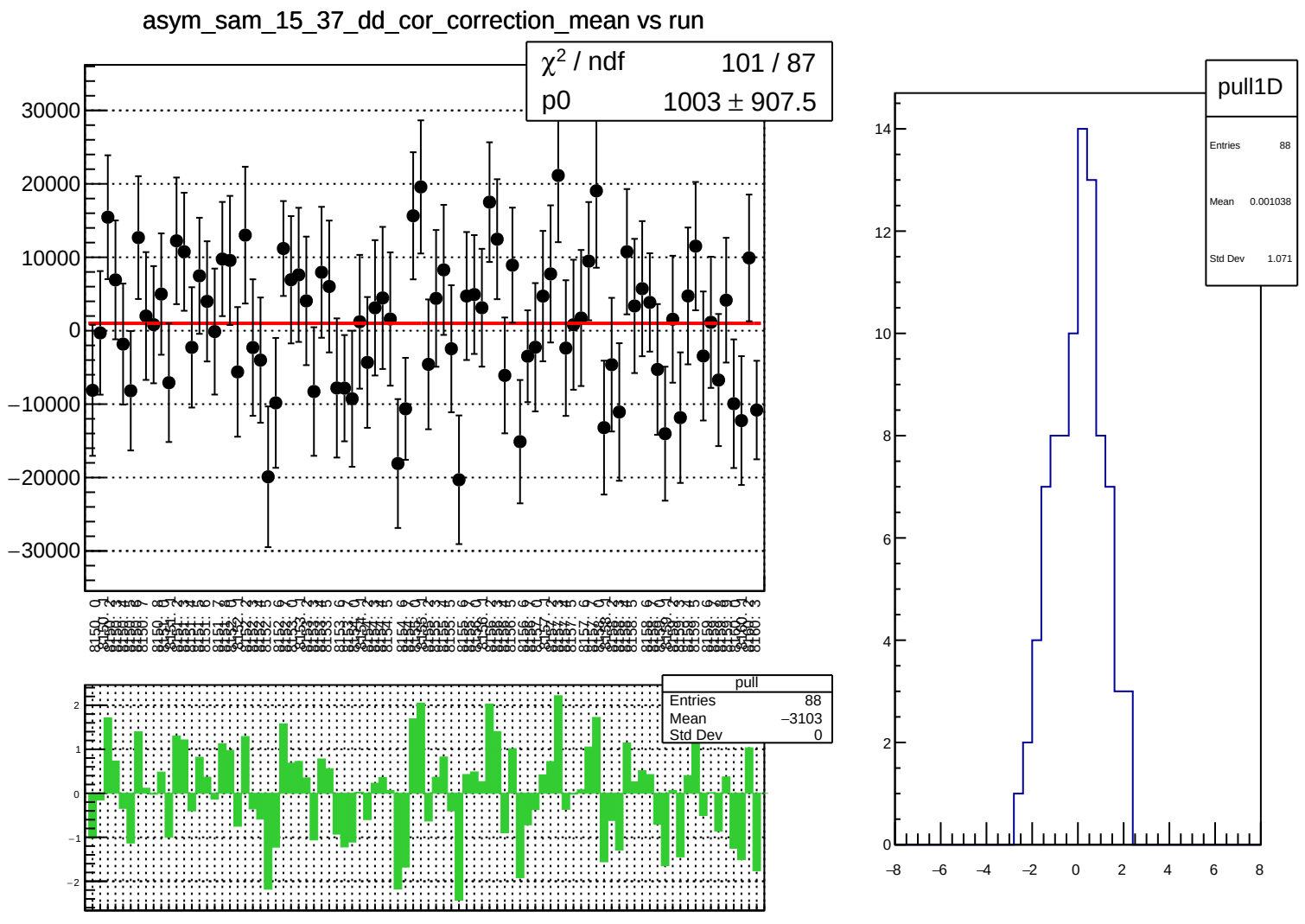

pull1D
Entries 88
Mean 0.001038
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

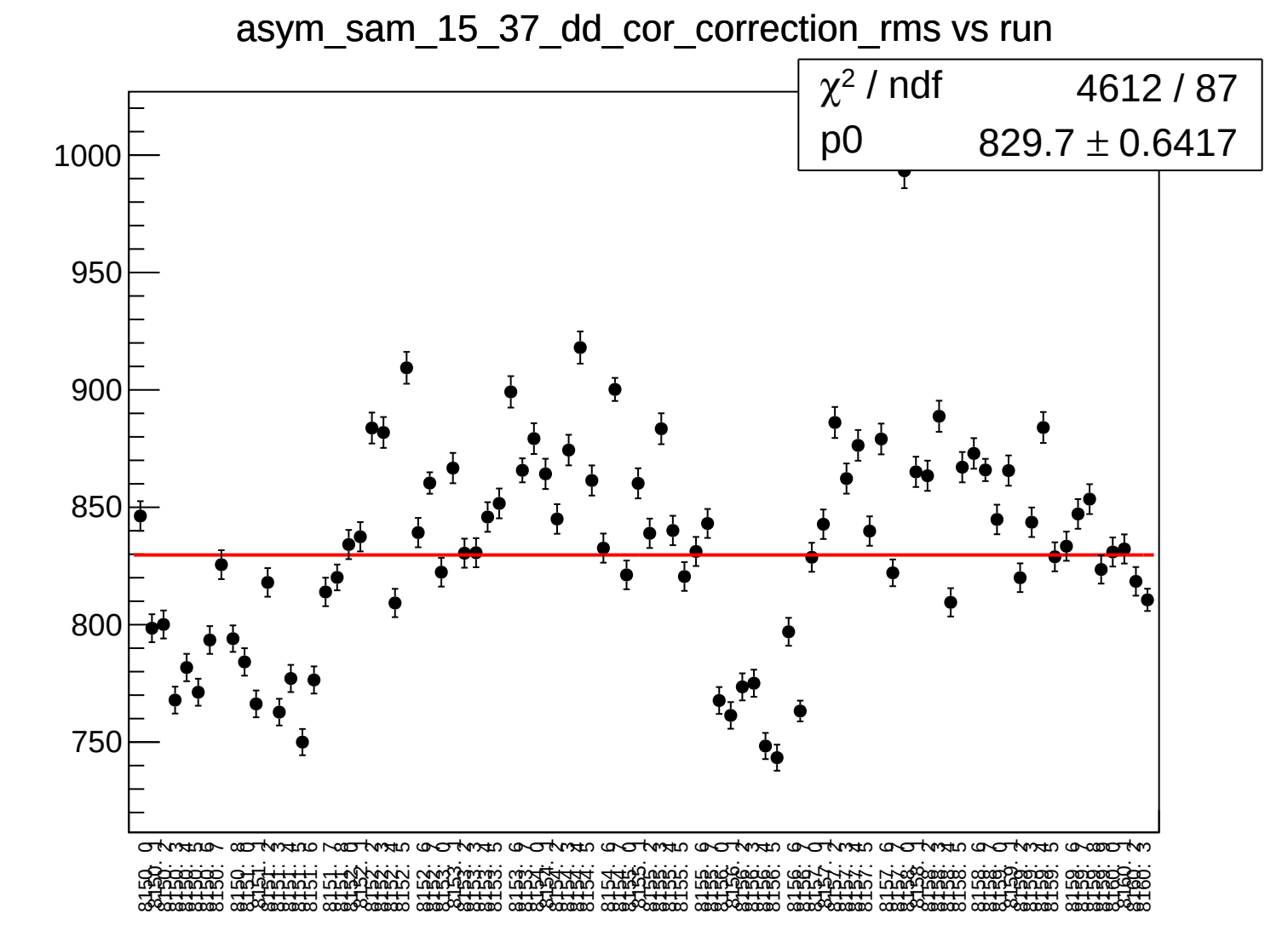

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 4612 / 87
p0 829.7 ± 0.6417
1000
950
900
850
800
750

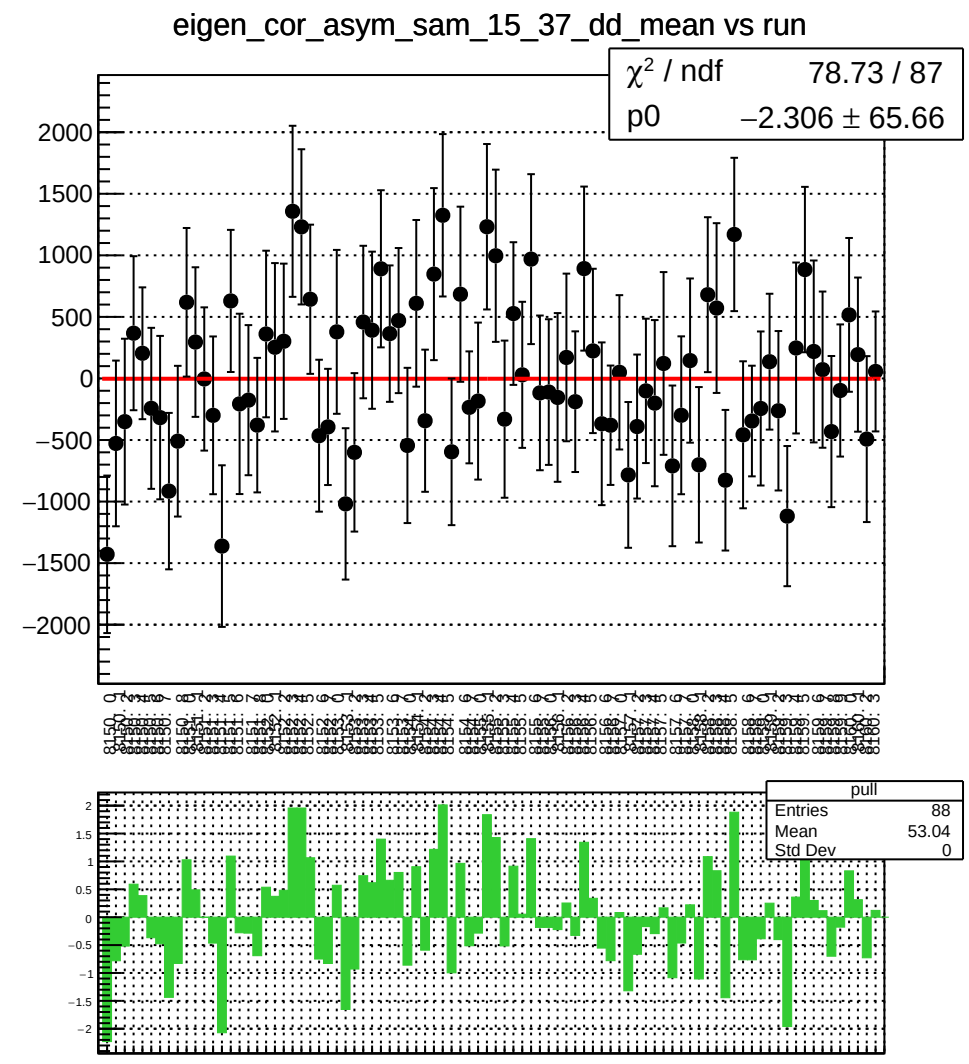

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 78.73 / 87
p0 −2.306 ± 65.66
pull
Entries 88
Mean 53.04
Std Dev 0

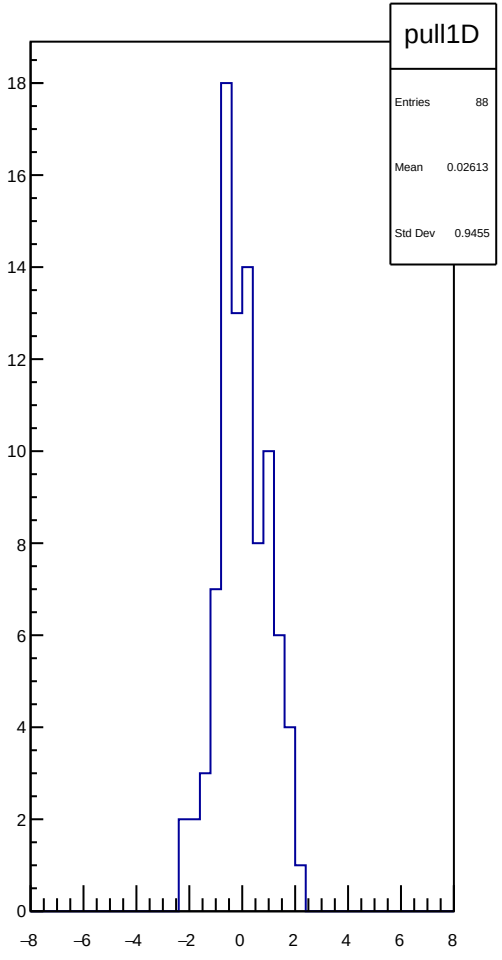

pull1D
Entries 88
Mean 0.02613
Std Dev 0.9455

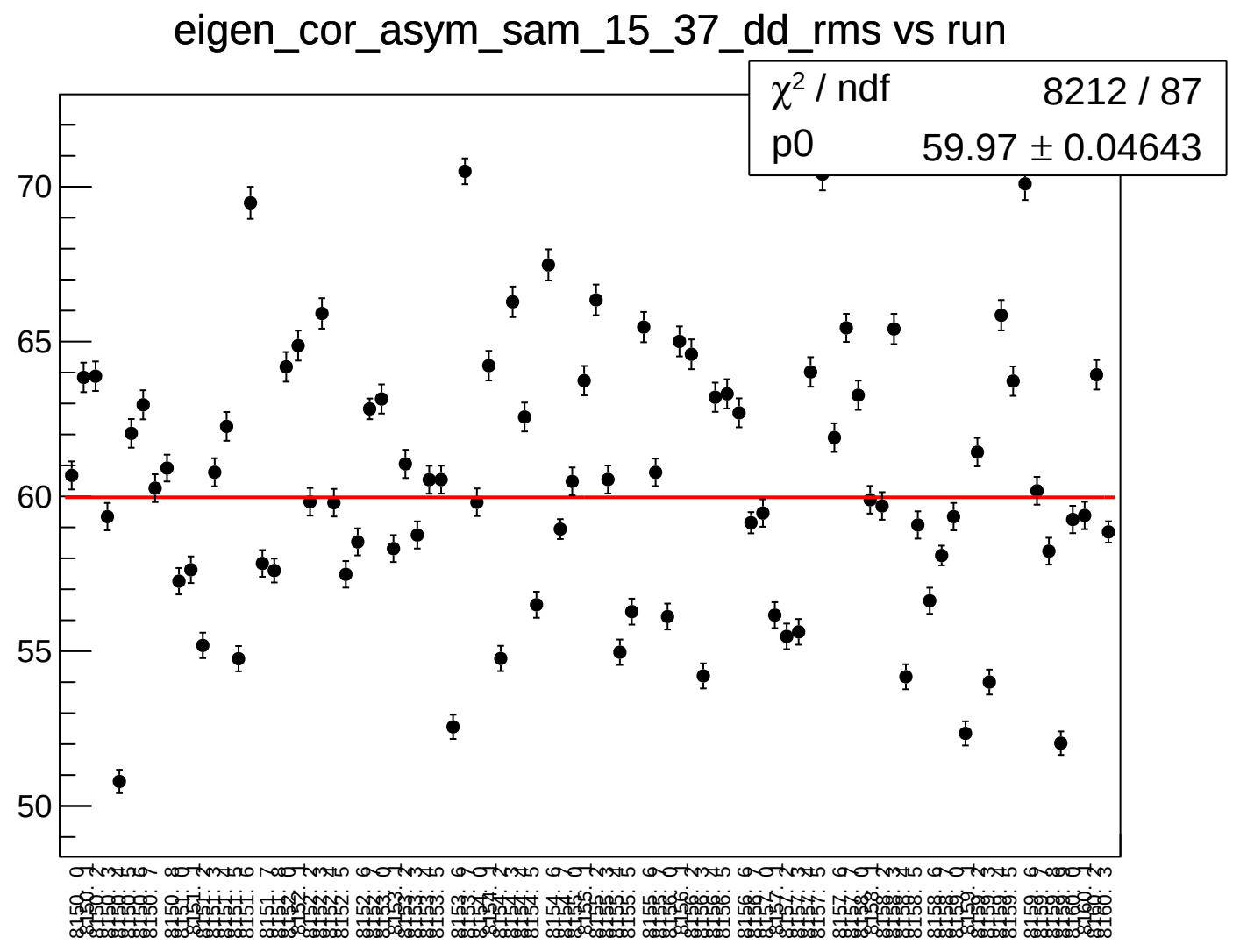

cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 8212 / 87
p0 59.97 ± 0.04643
70
65
60
55
50

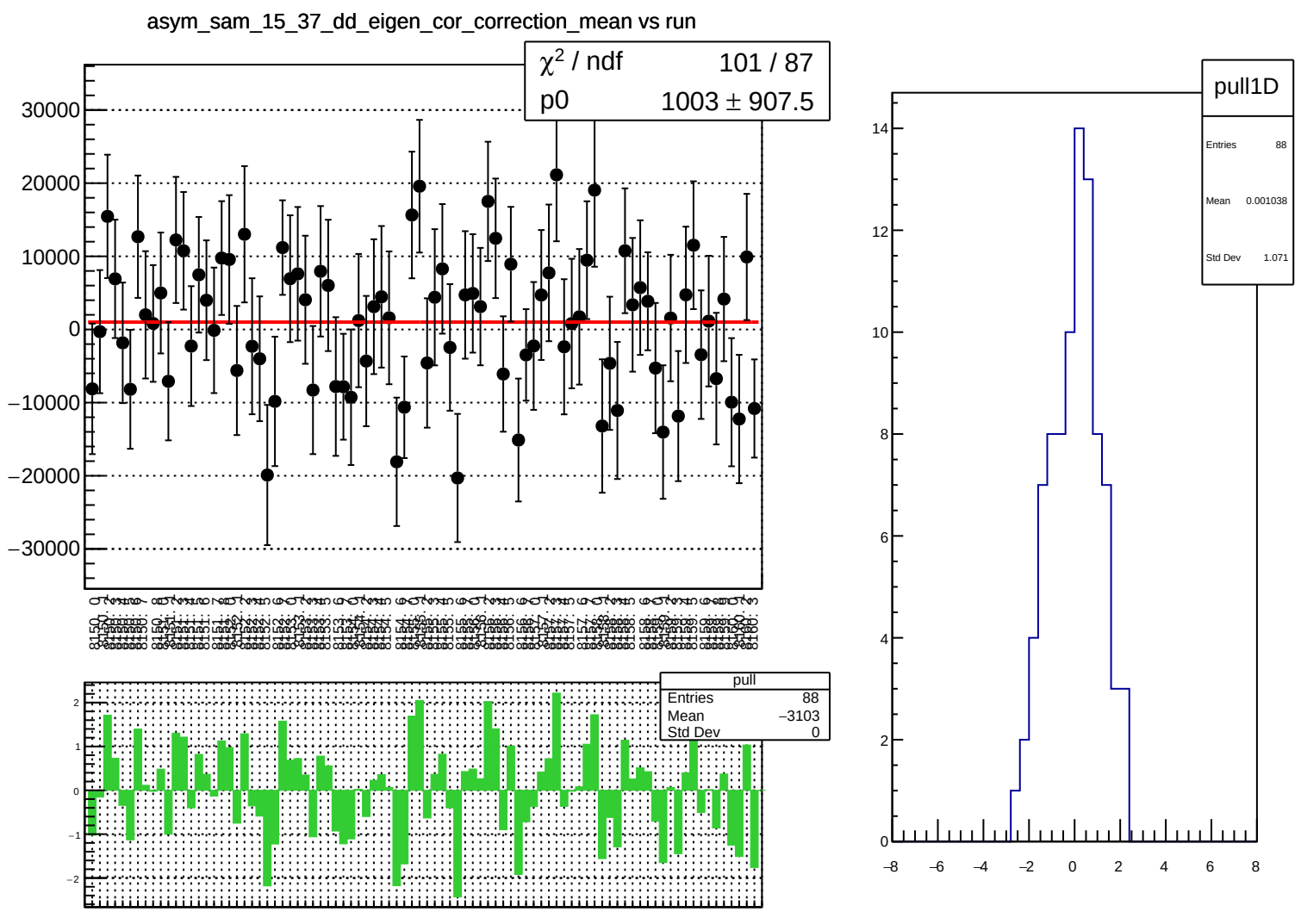

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 101 / 87
p0 1003 ± 907.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −3103
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001038
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

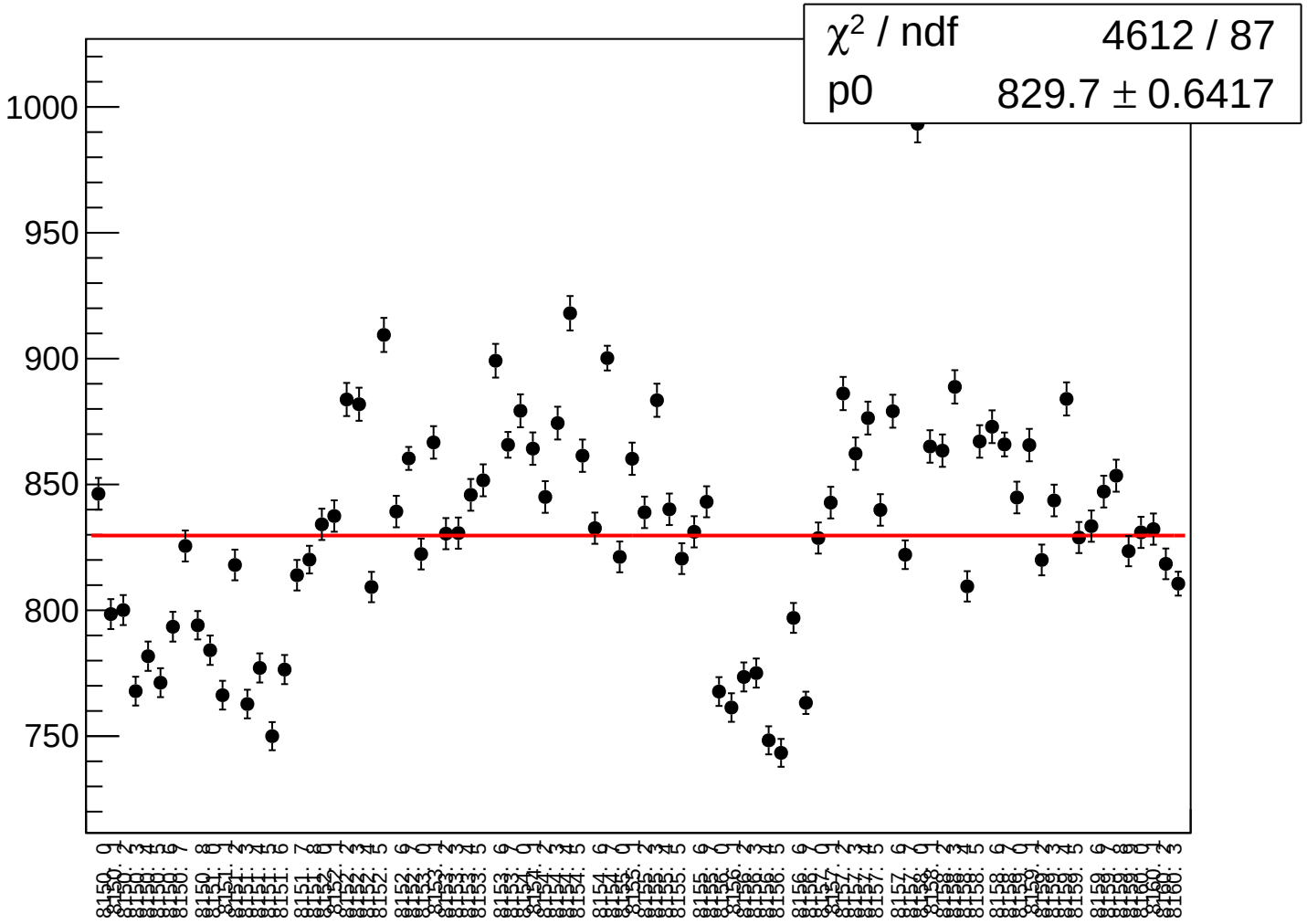

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 4612 / 87
p0 829.7 ± 0.6417
1000
950
900
850
800
750

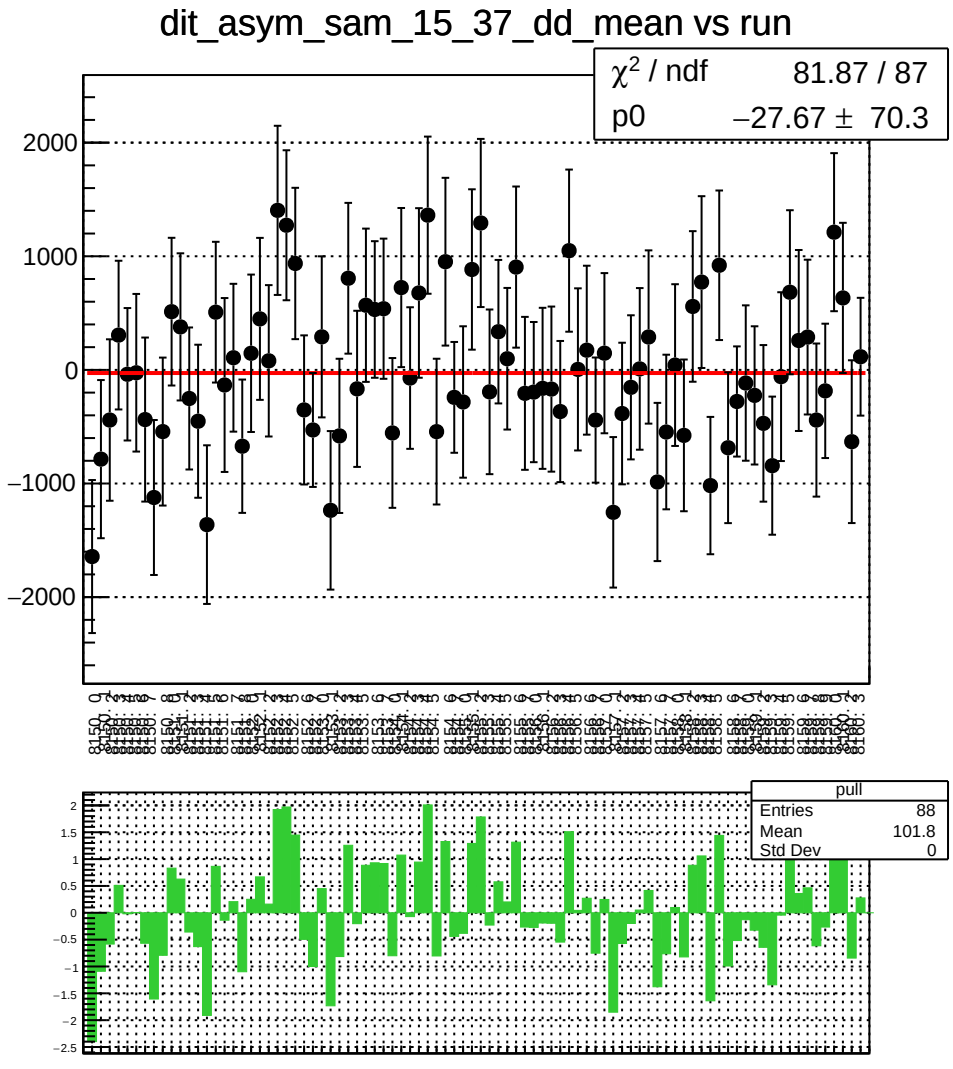

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 78.73 / 87
p0 −2.306 ± 65.66
pull
Entries 88
Mean 53.04
Std Dev 0

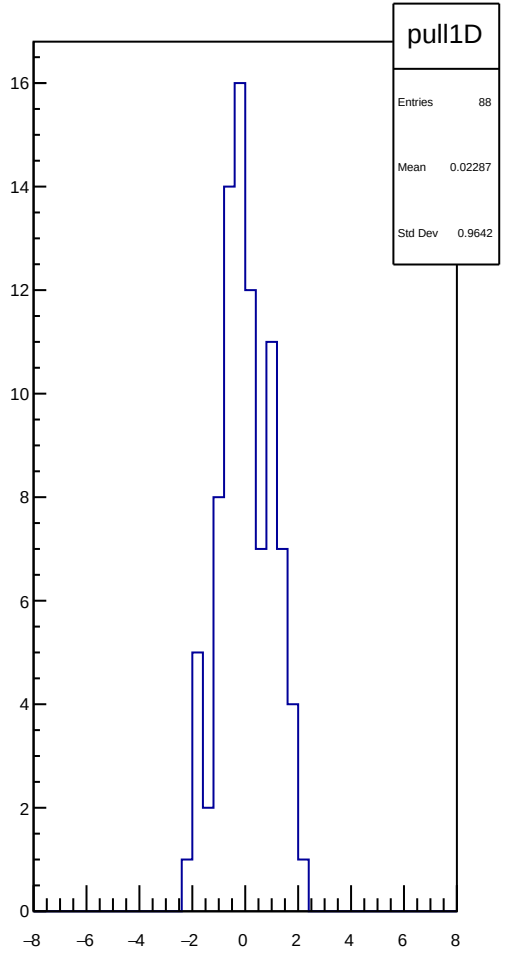

pull1D
Entries 88
Mean 0.02613
Std Dev 0.9455

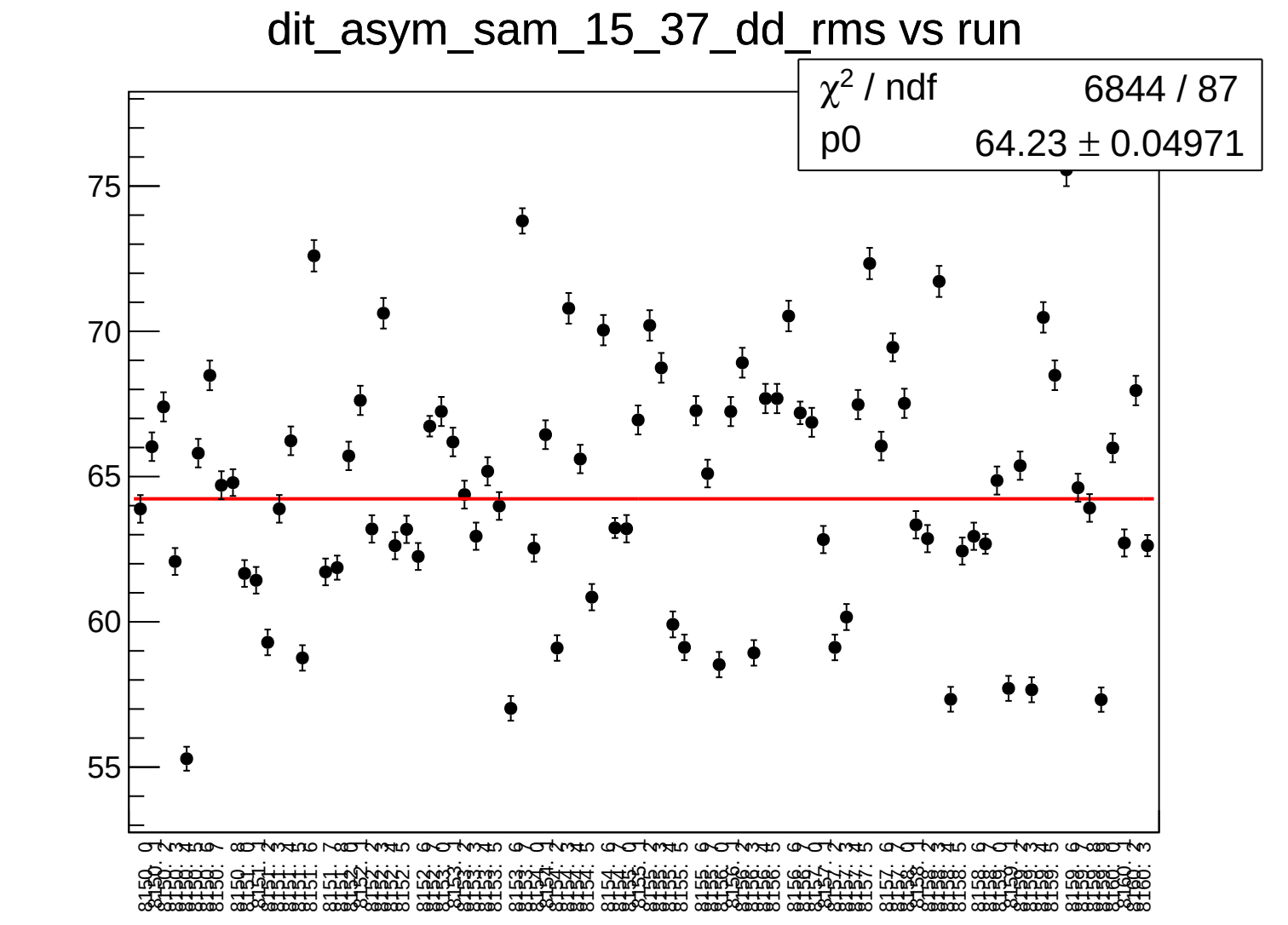

eigen_cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 8212 / 87
p0 59.97 ± 0.04643
70
65
60
55
50

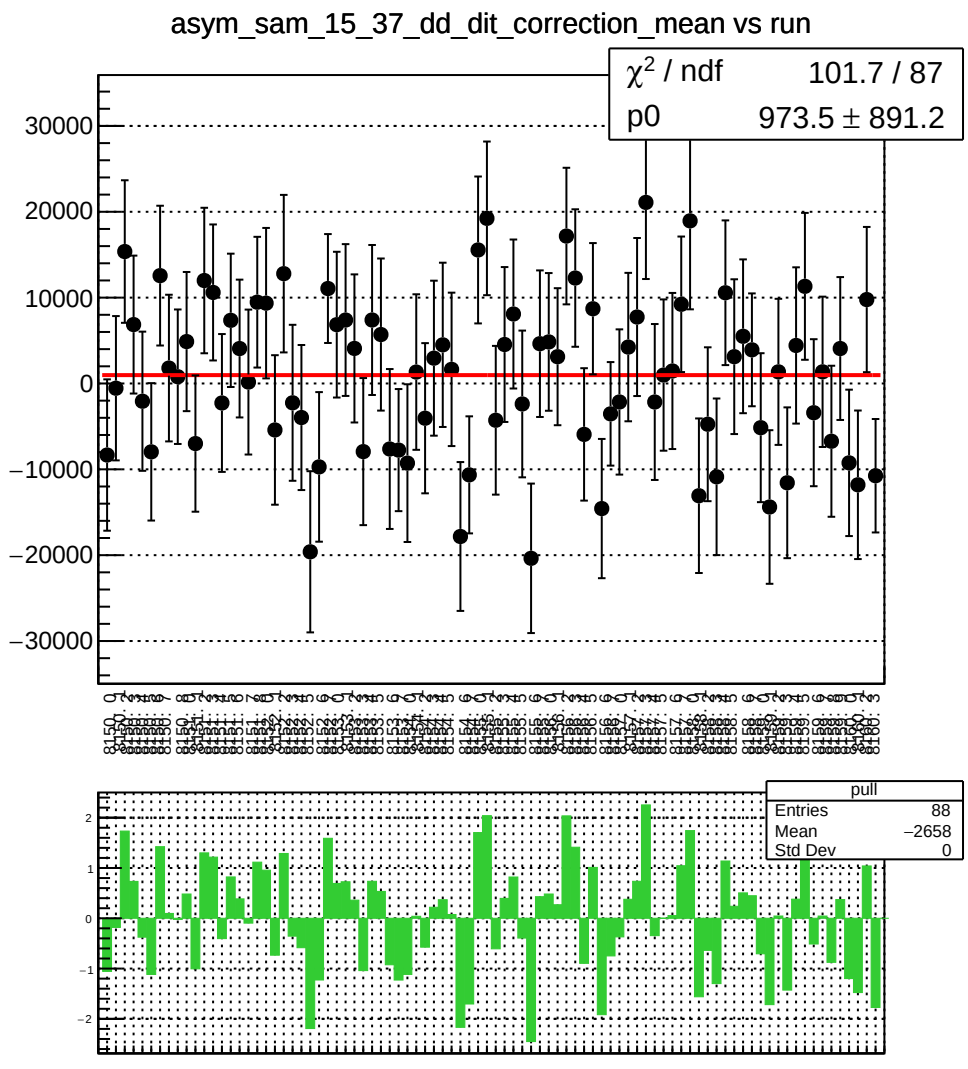

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 101 / 87
p0 1003 ± 907.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −3103
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001038
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

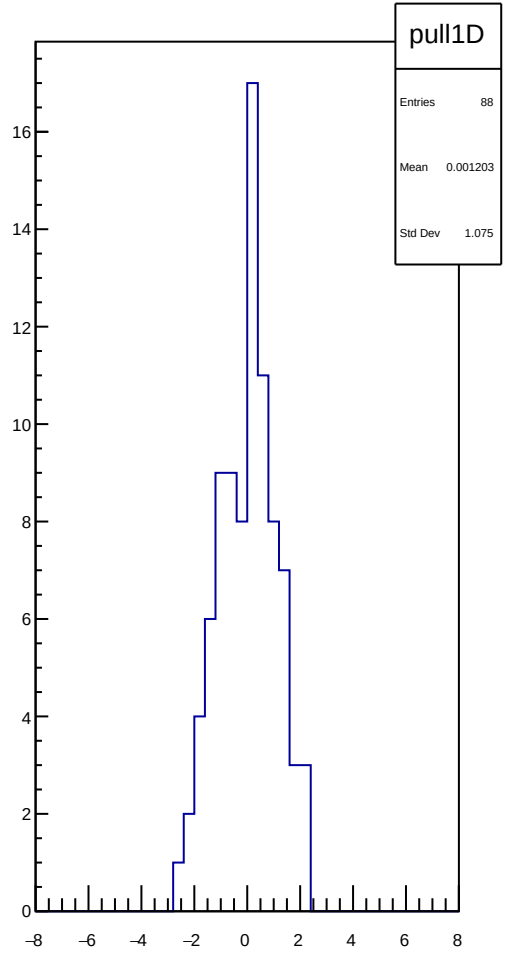

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 4612 / 87
p0 829.7 ± 0.6417
1000
950
900
850
800
750

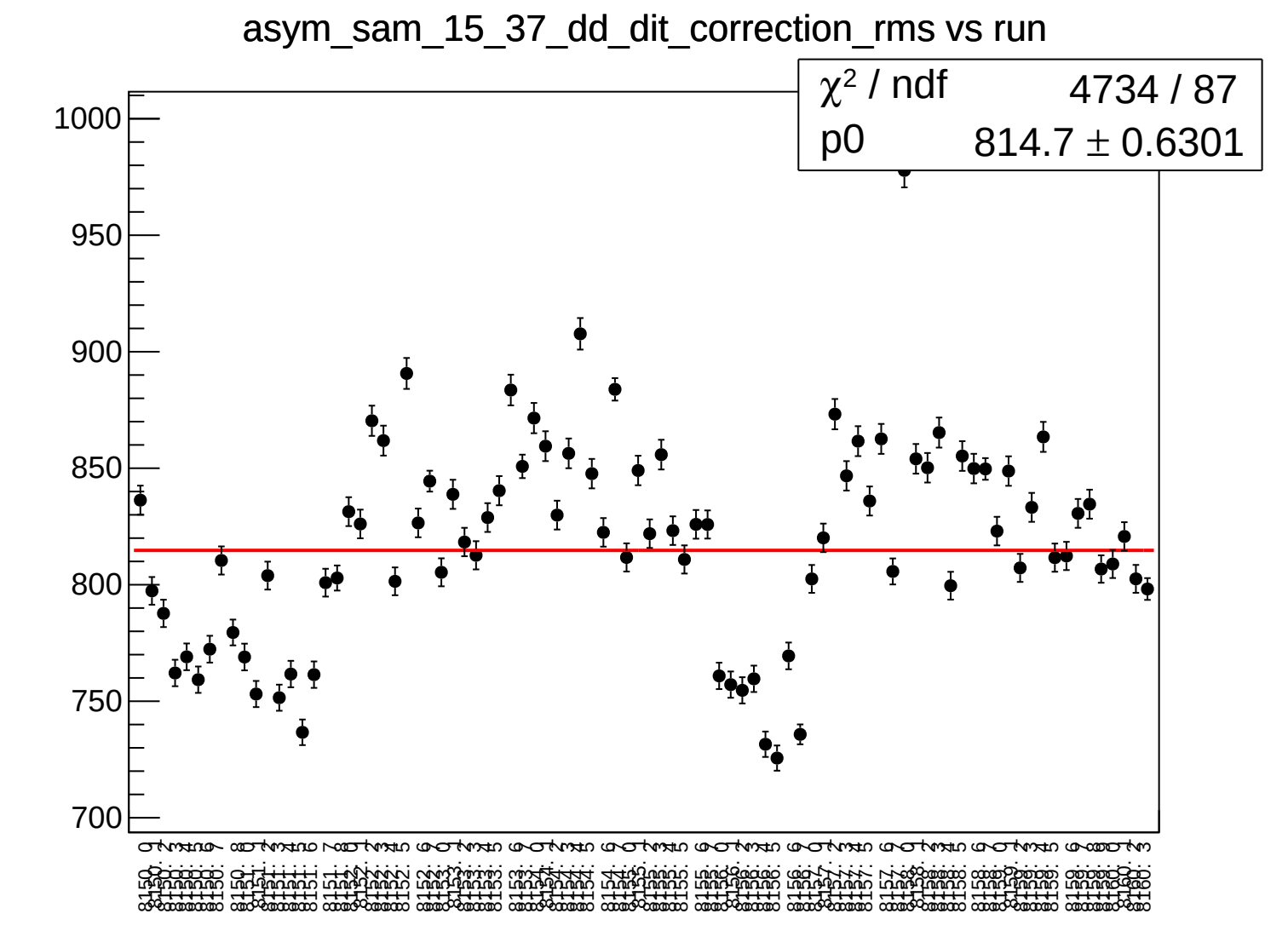

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 81.87 / 87
p0 −27.67 ± 70.3
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 101.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

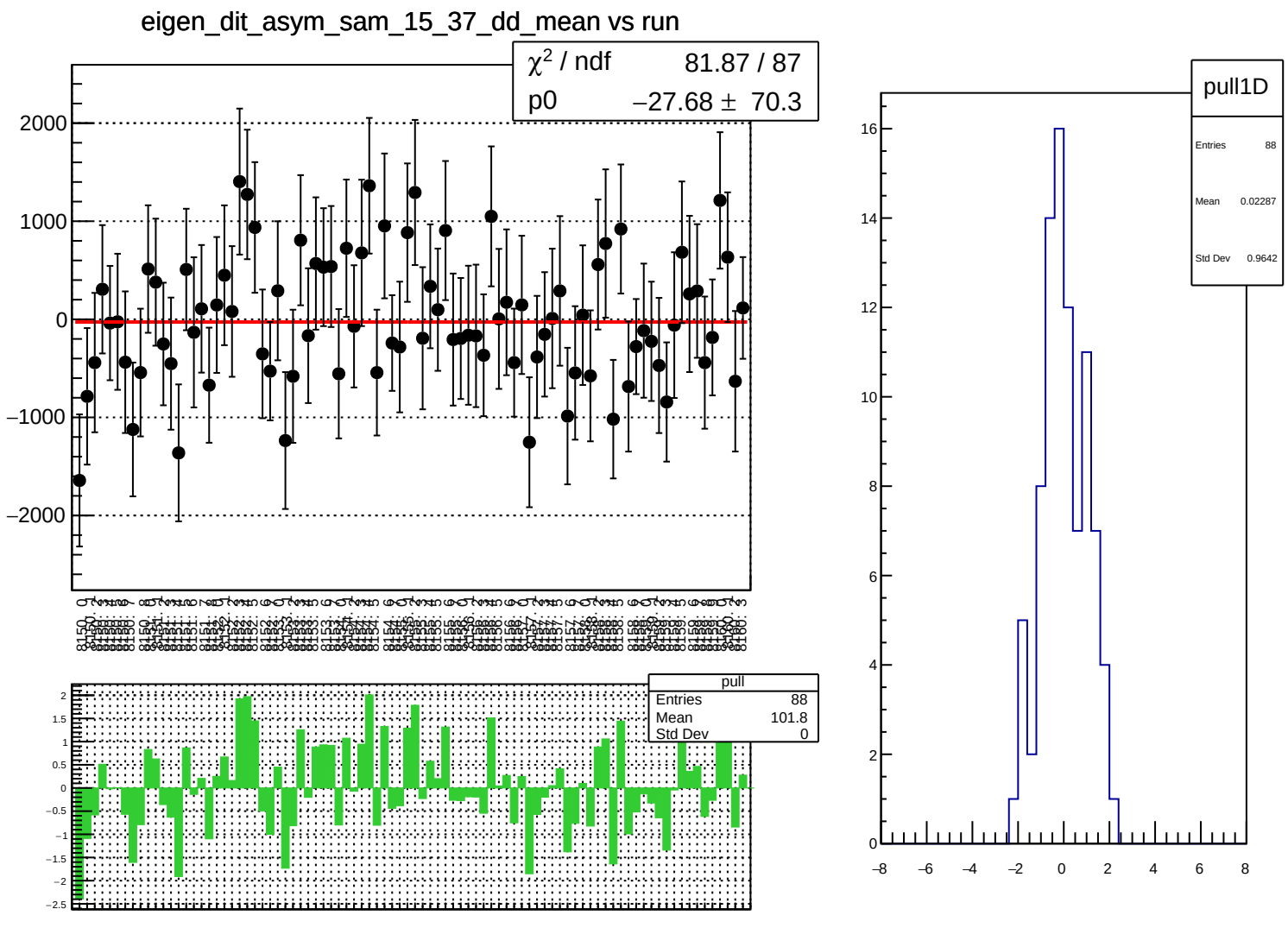

pull1D
Entries 88
Mean 0.02287
Std Dev 0.9642
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

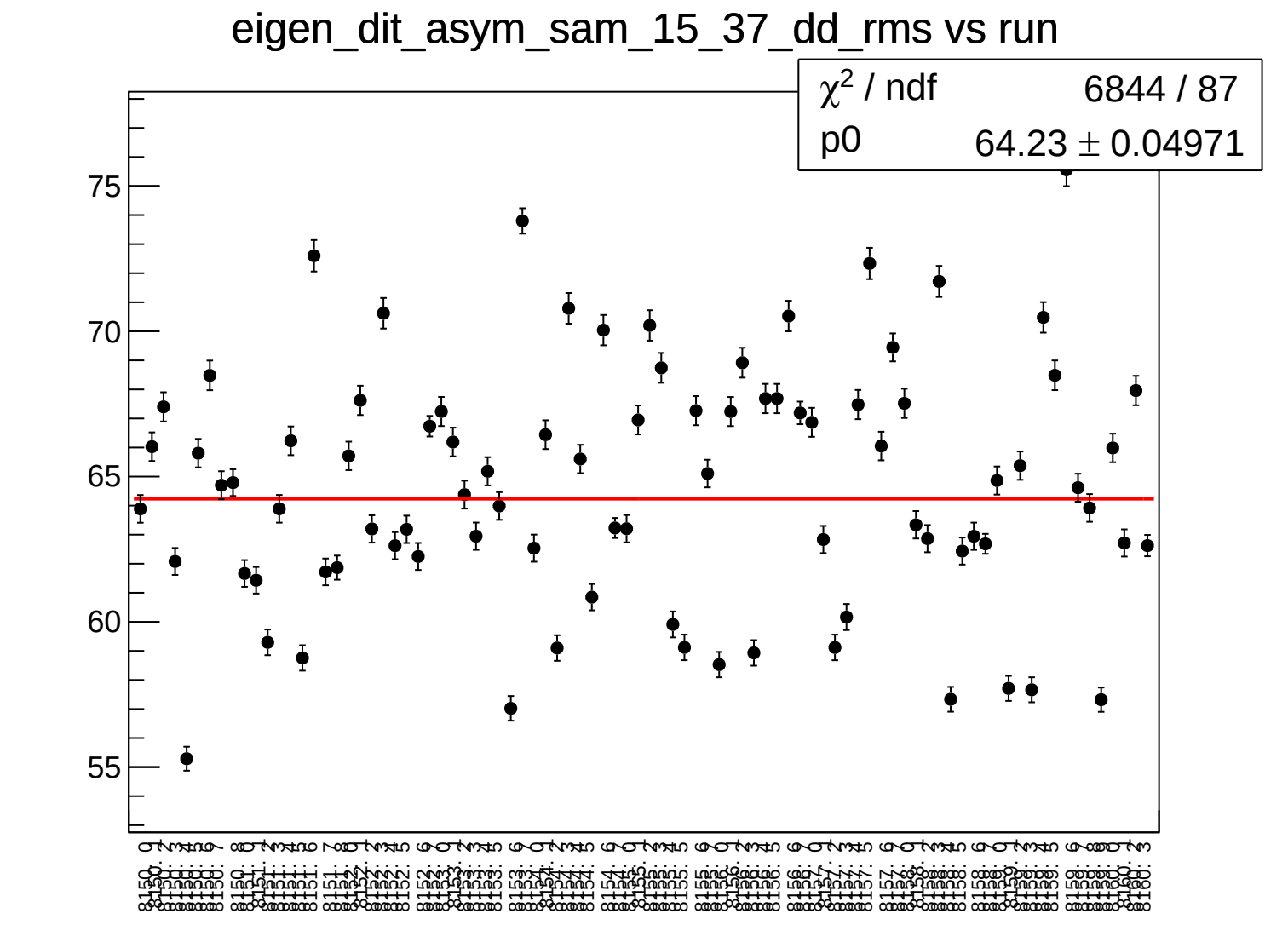

dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 6844 / 87
p0 64.23 ± 0.04971
75
70
65
60
55

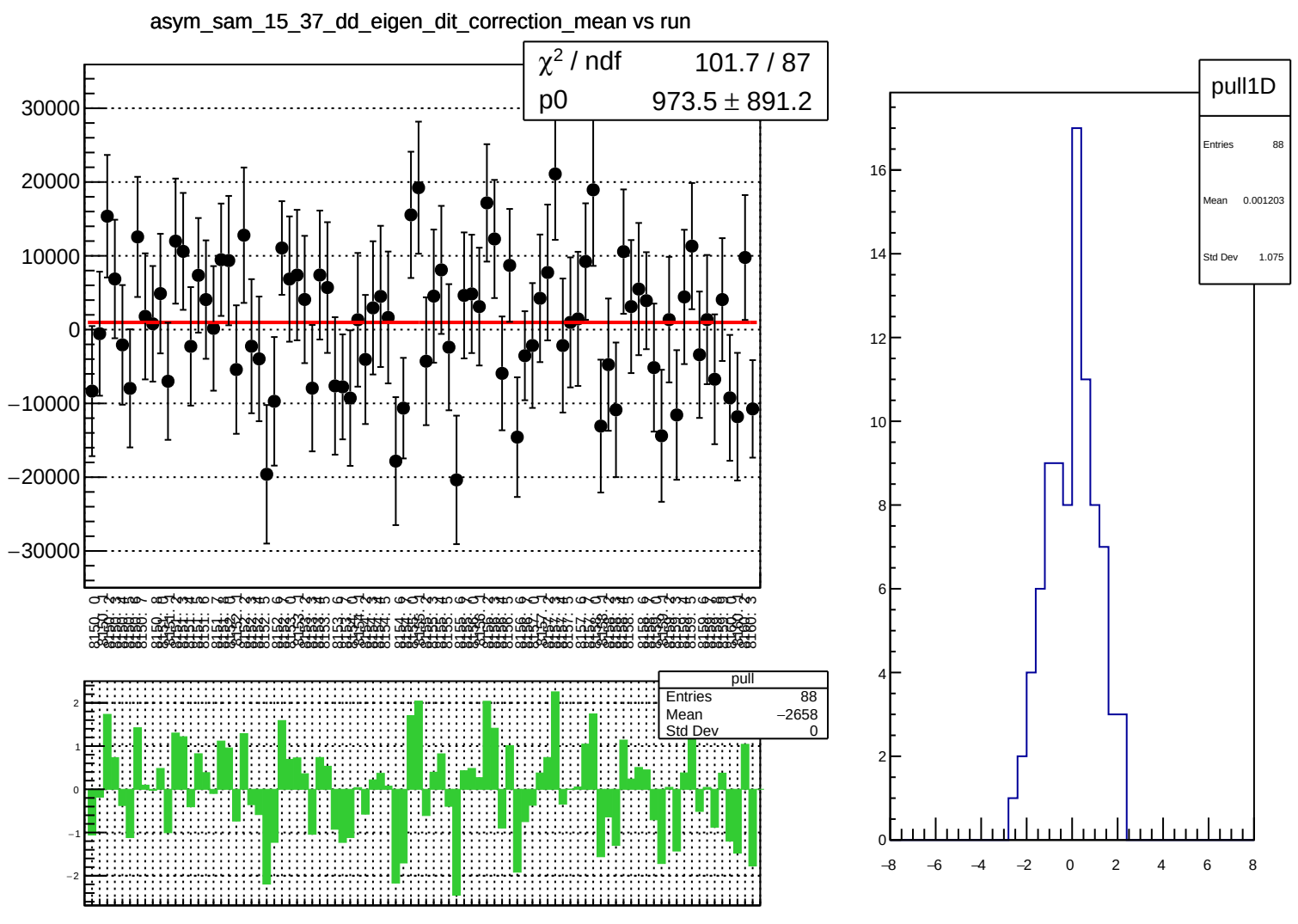

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 101.7 / 87
p0 973.5 ± 891.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −2658
Std Dev 0
2
1
0
−1
−2

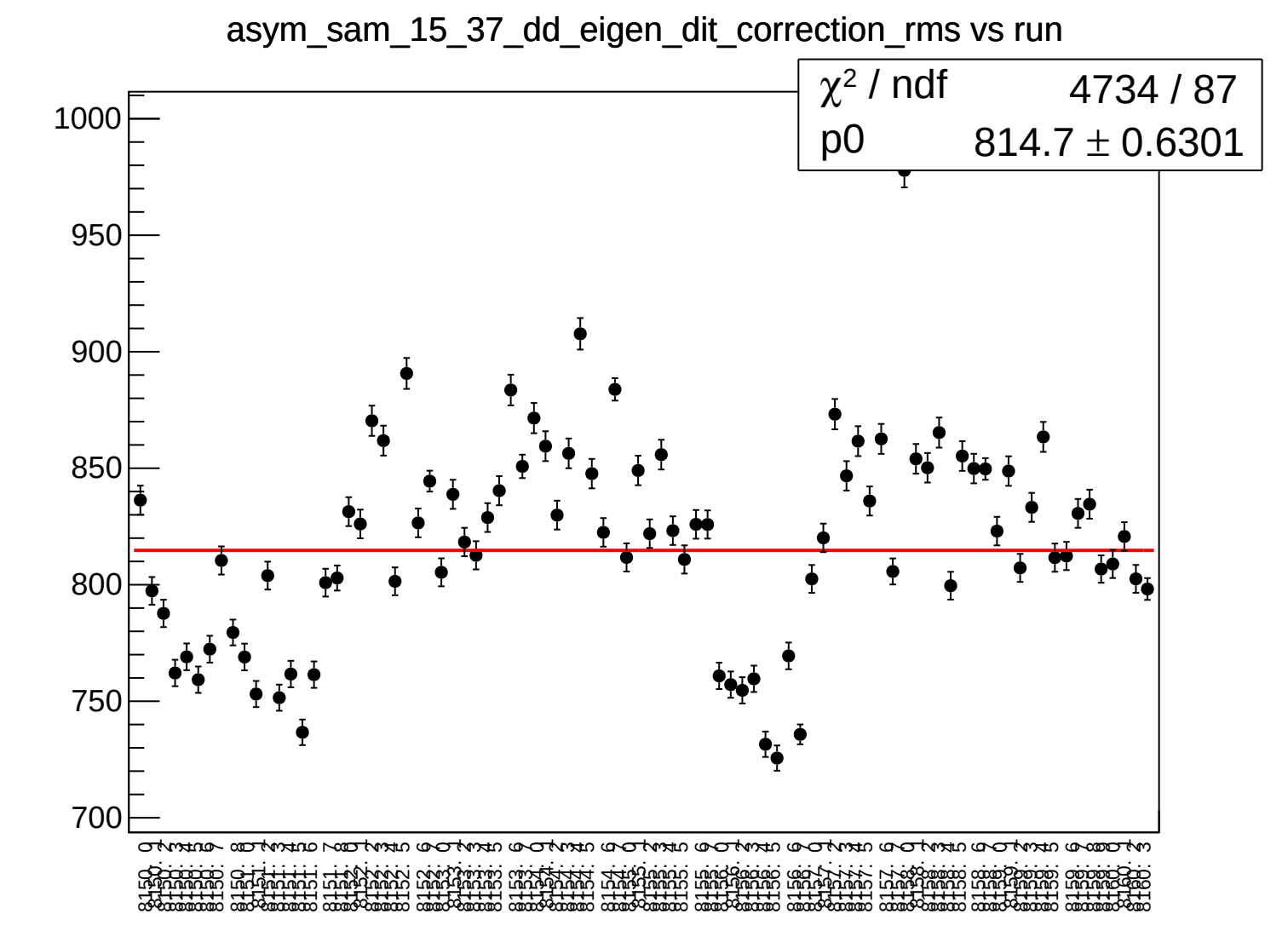

pull1D
Entries 88
Mean 0.001203
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

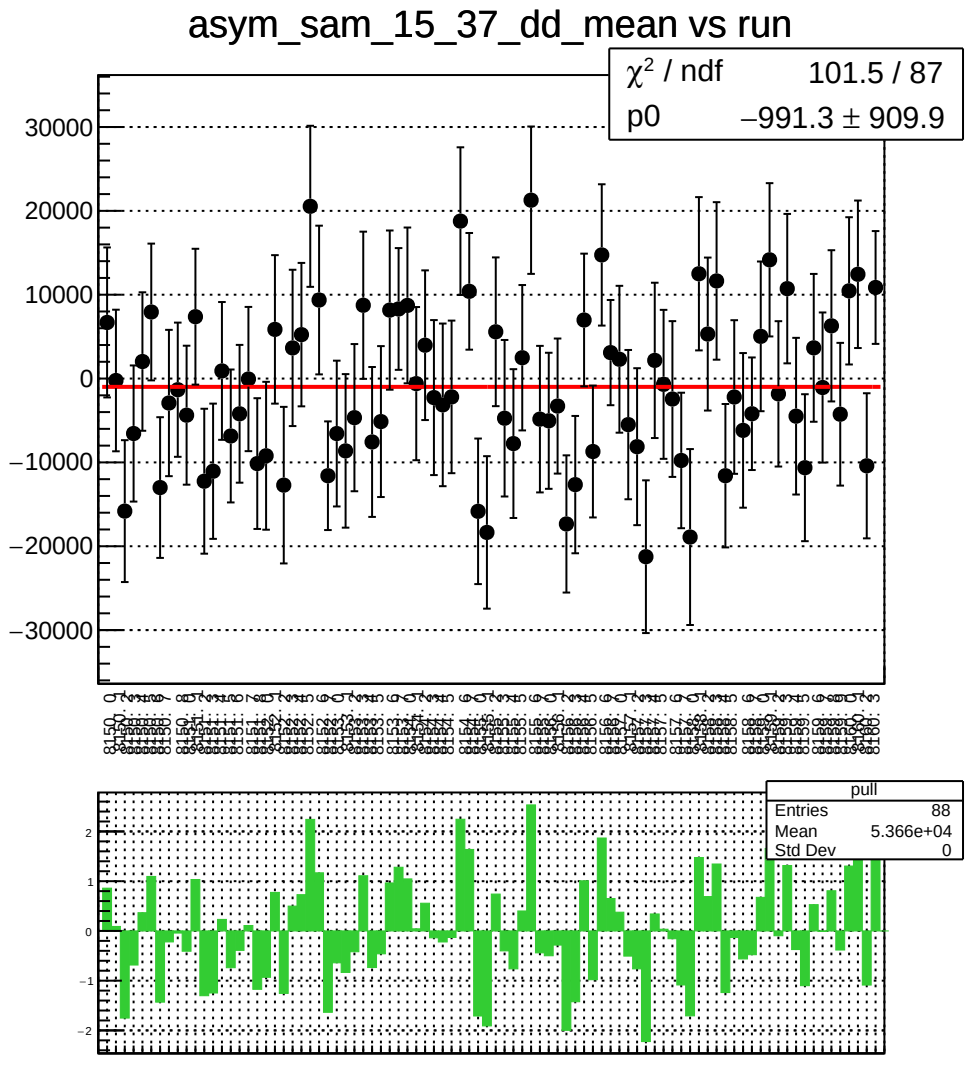

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 4734 / 87
p0 814.7 ± 0.6301
1000
950
900
850
800
750
700

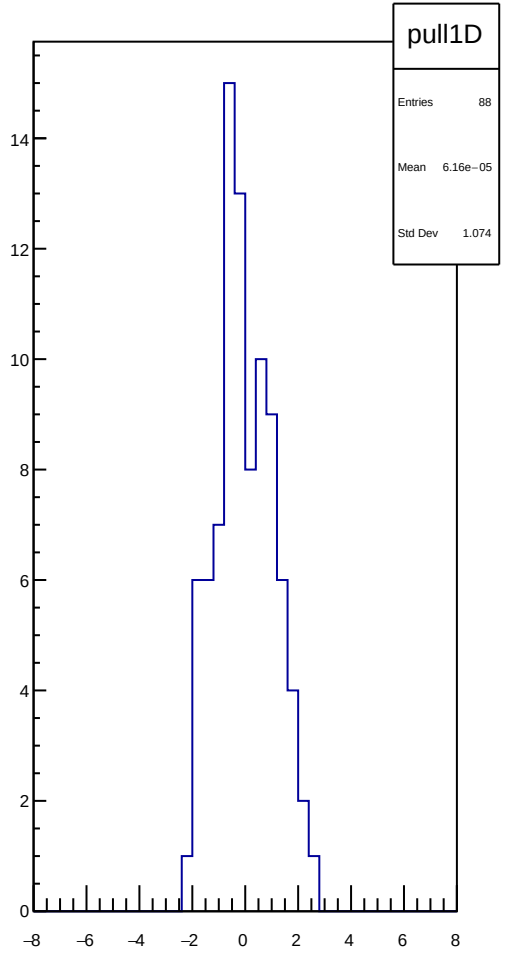

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 81.87 / 87
p0 −27.68 ± 70.3
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 101.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean 0.02287
Std Dev 0.9642
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

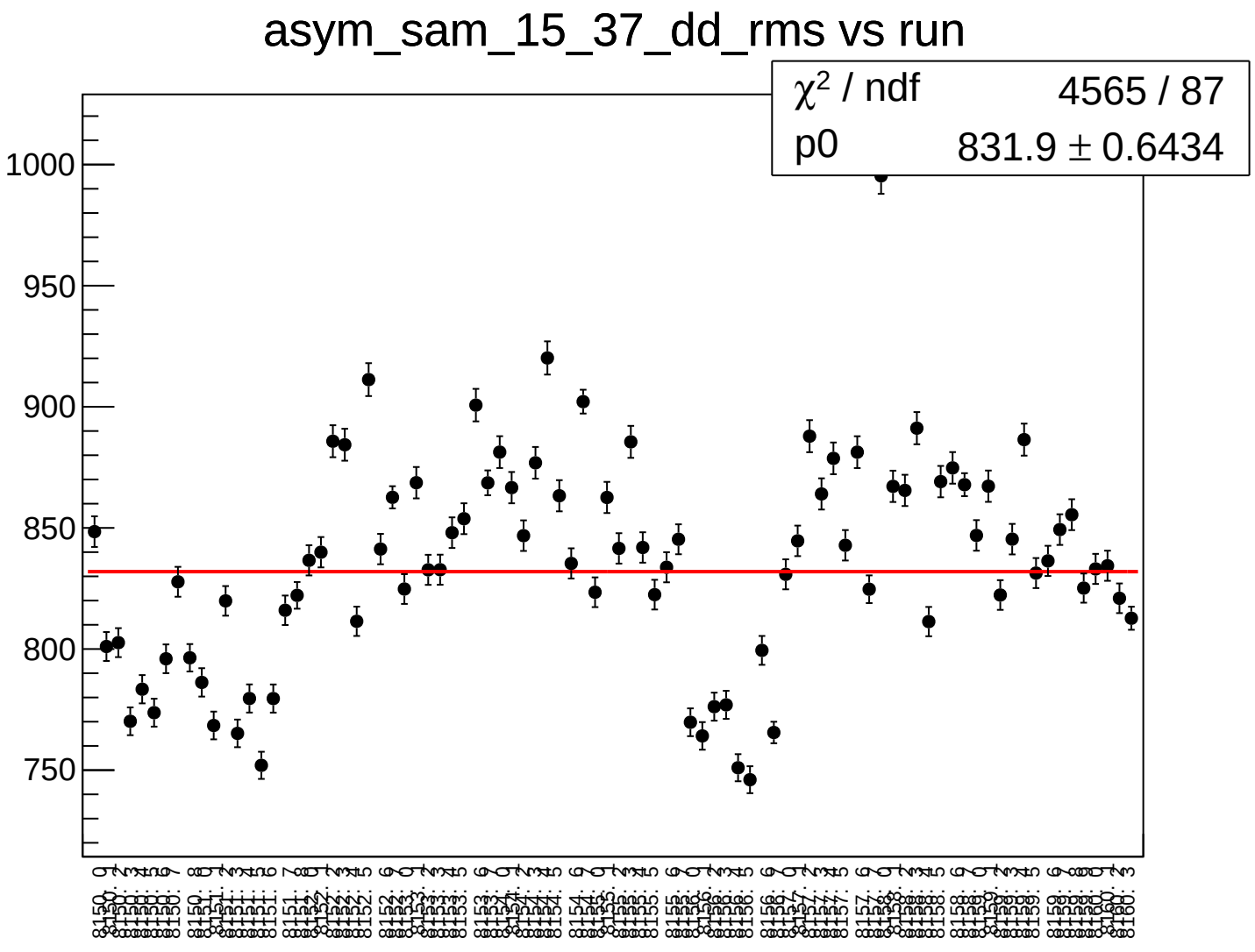

eigen_dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 6844 / 87
p0 64.23 ± 0.04971
75
70
65
60
55

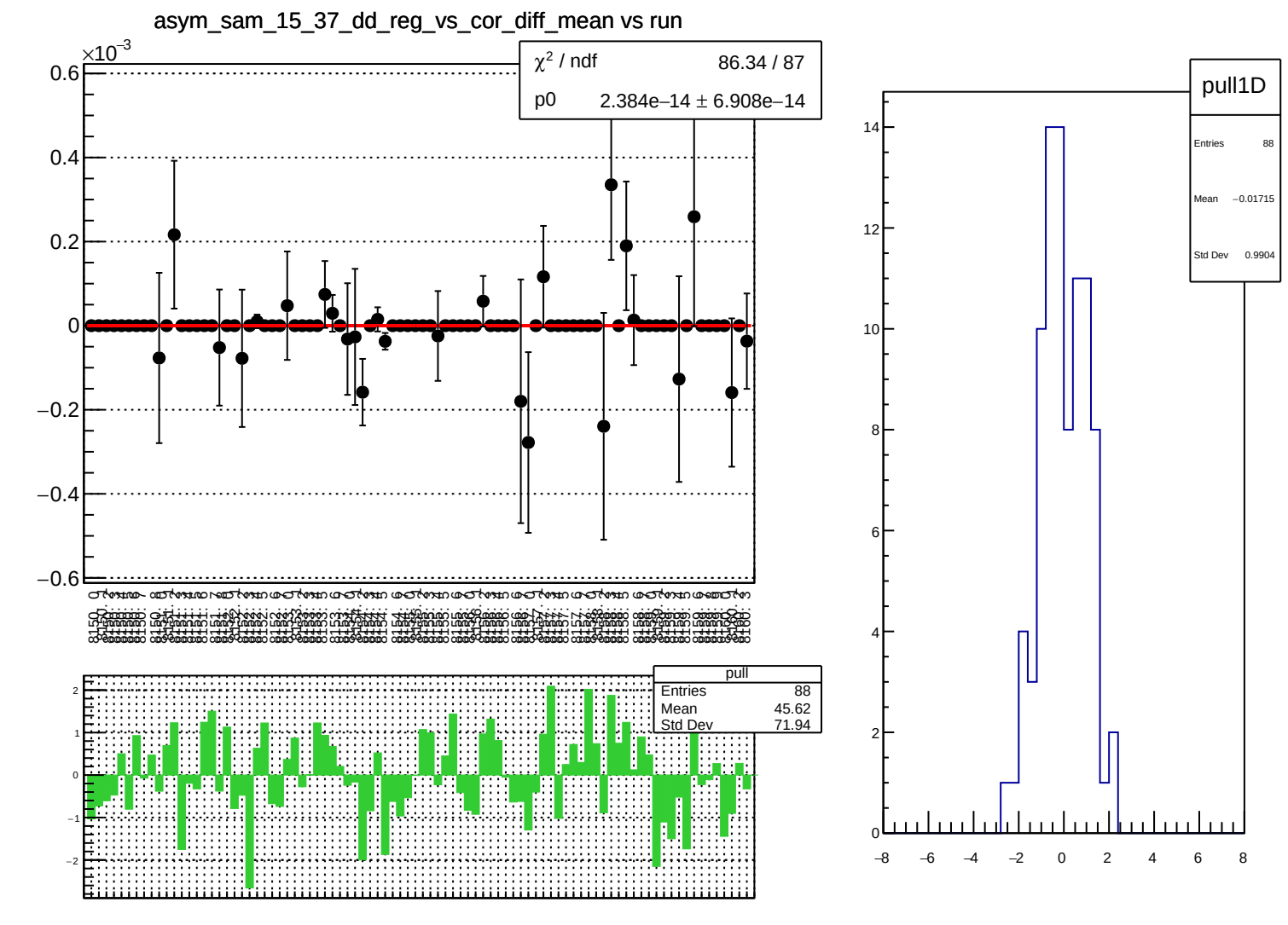

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.7 / 87
p0 973.5 ± 891.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −2658
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001203
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

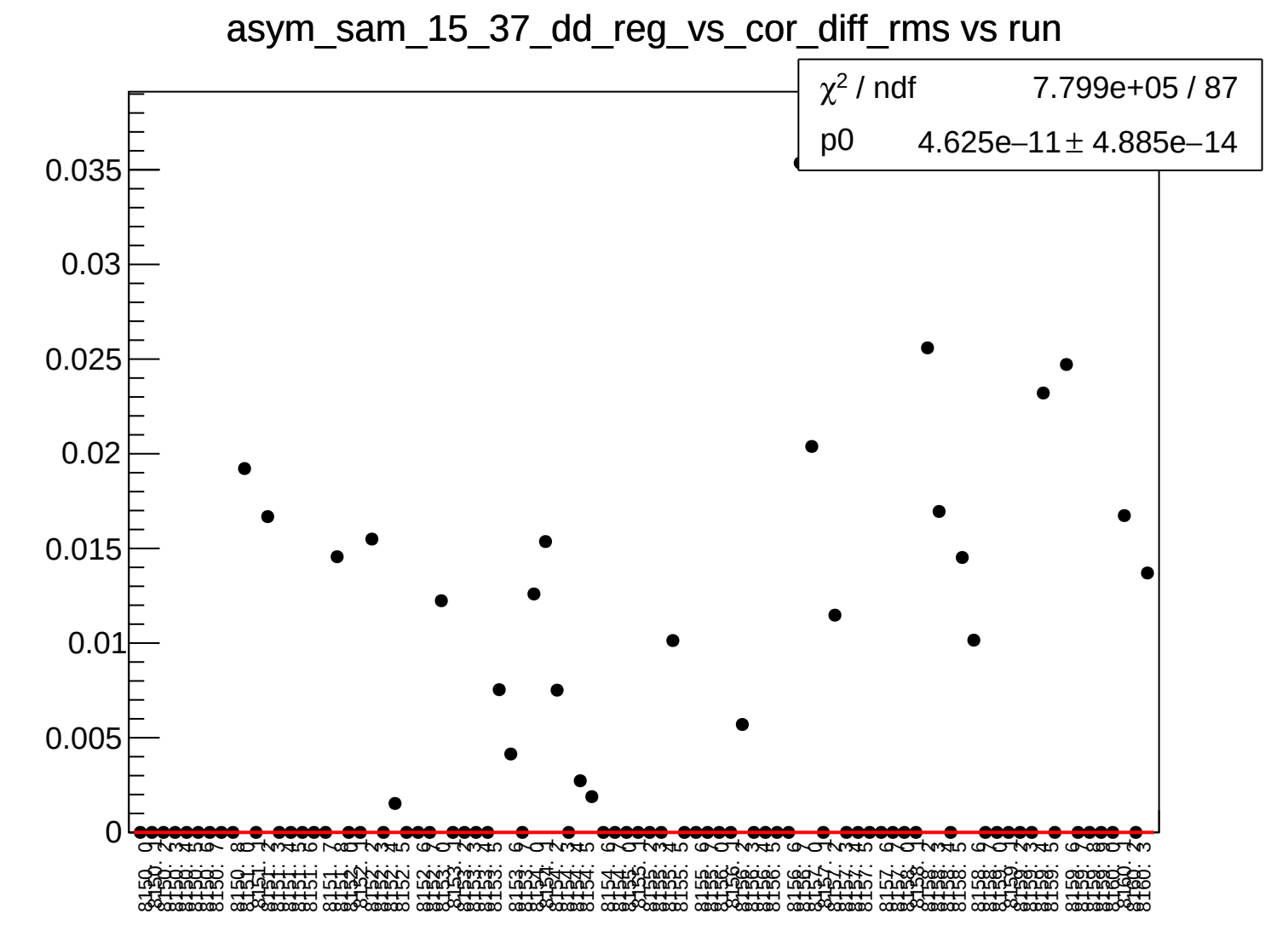

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 4734 / 87
p0 814.7 ± 0.6301
1000
950
900
850
800
750
700

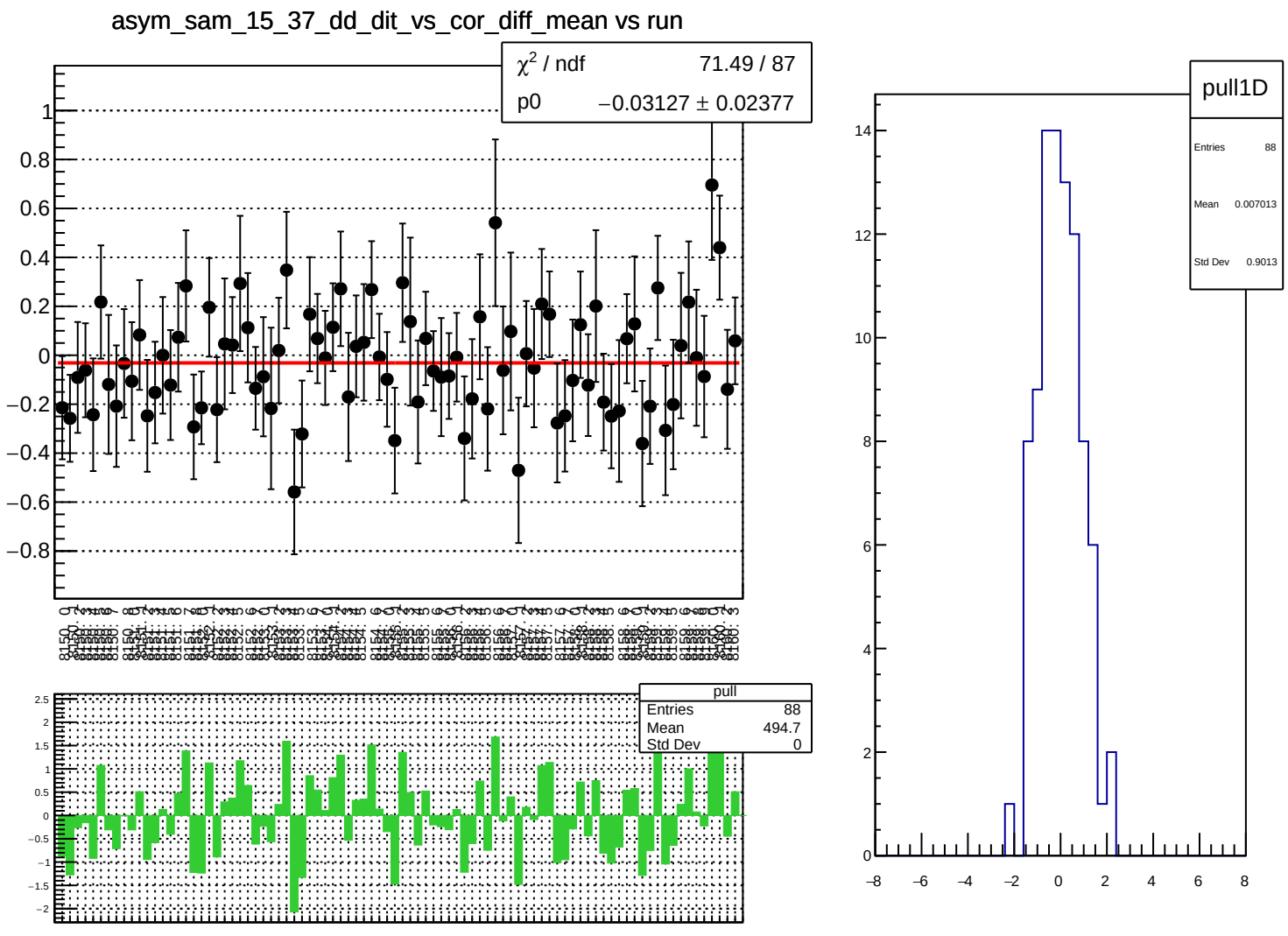

asym_sam_15_37_dd_mean vs run
χ² / ndf 101.5 / 87
p0 −991.3 ± 909.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 5.366e+04
Std Dev 0
2
1
0
−1
−2

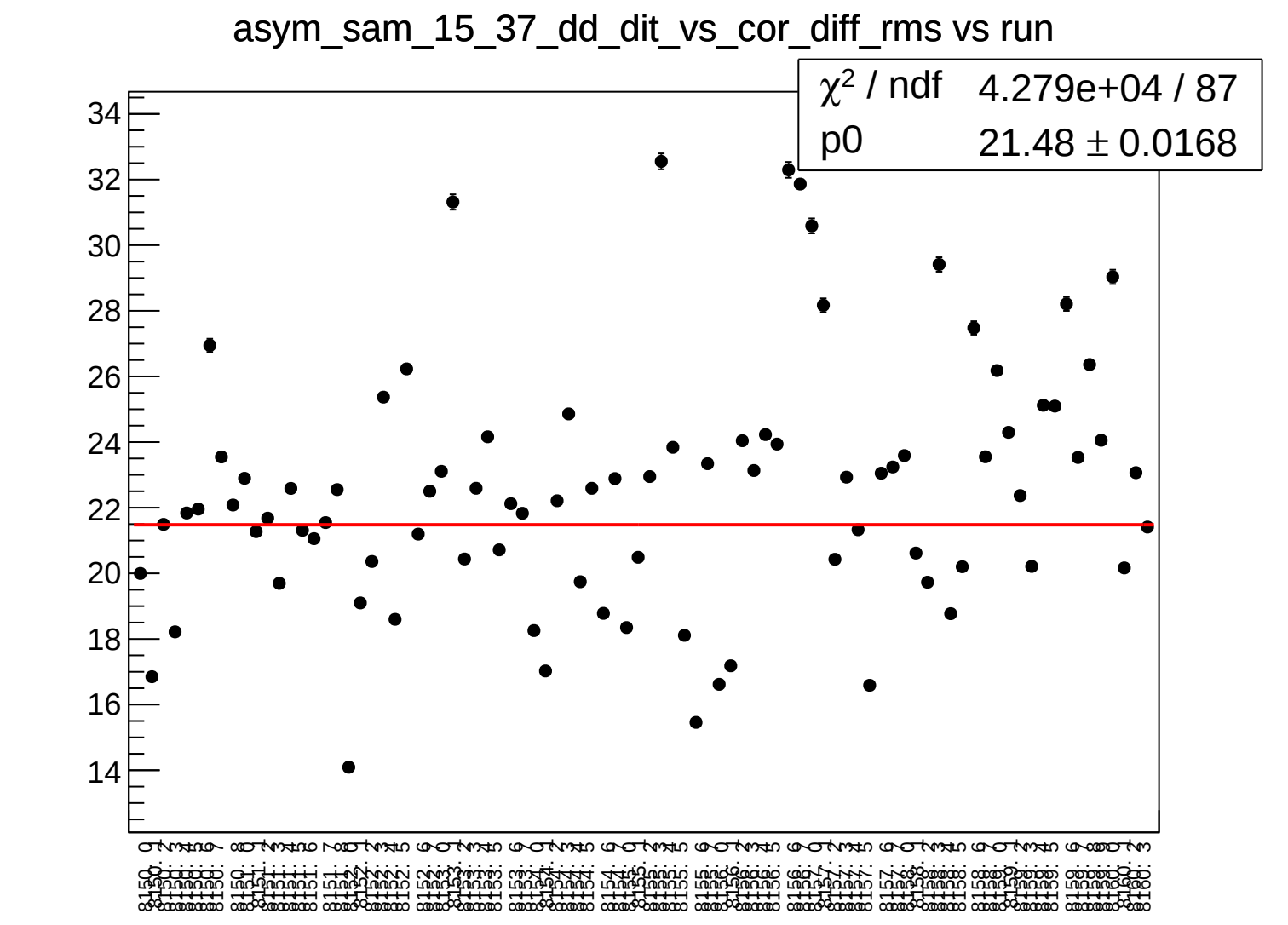

pull1D
Entries 88
Mean 6.16e−05
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

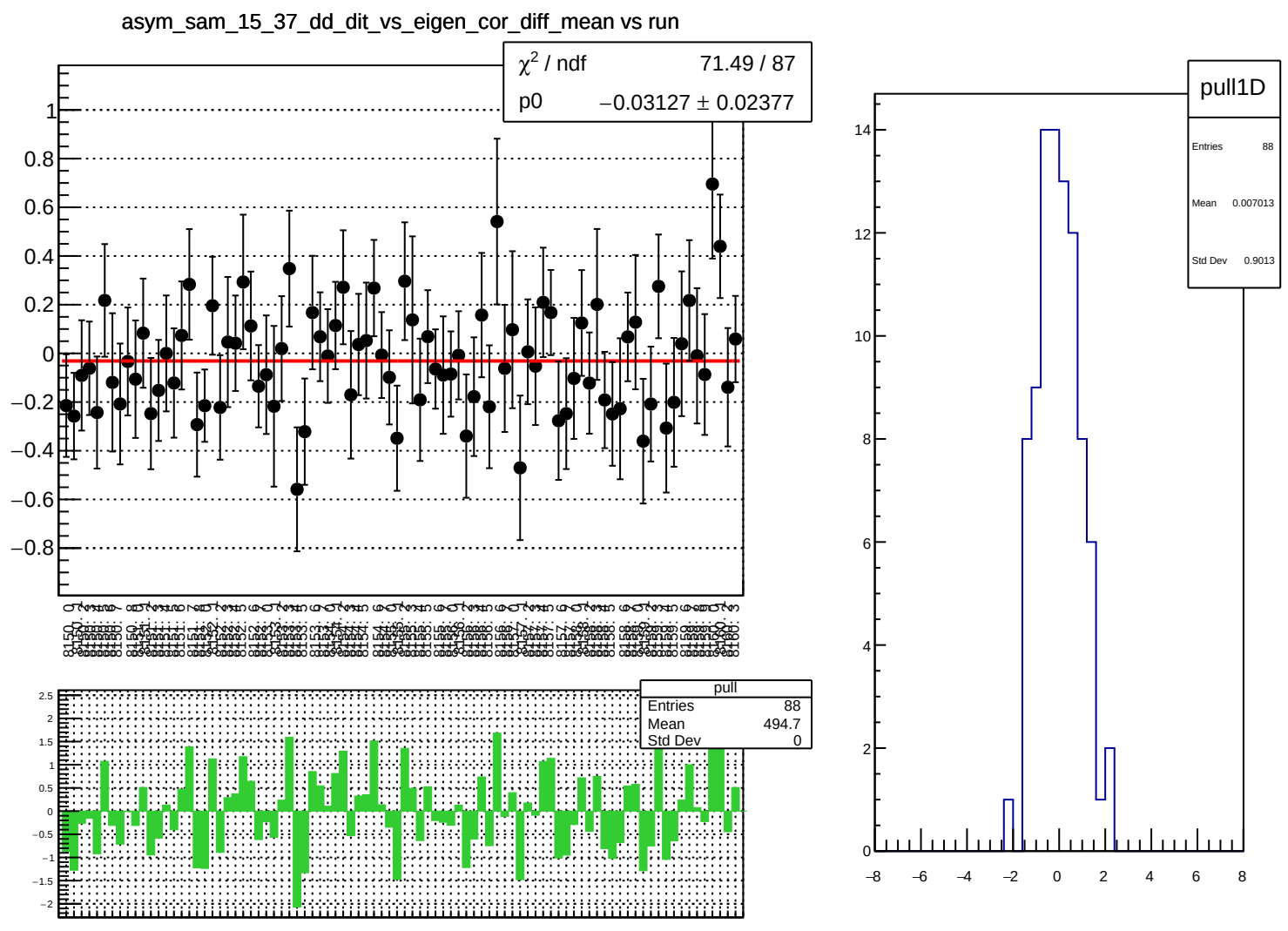

asym_sam_15_37_dd_rms vs run
χ² / ndf 4565 / 87
p0 831.9 ± 0.6434
1000
950
900
850
800
750

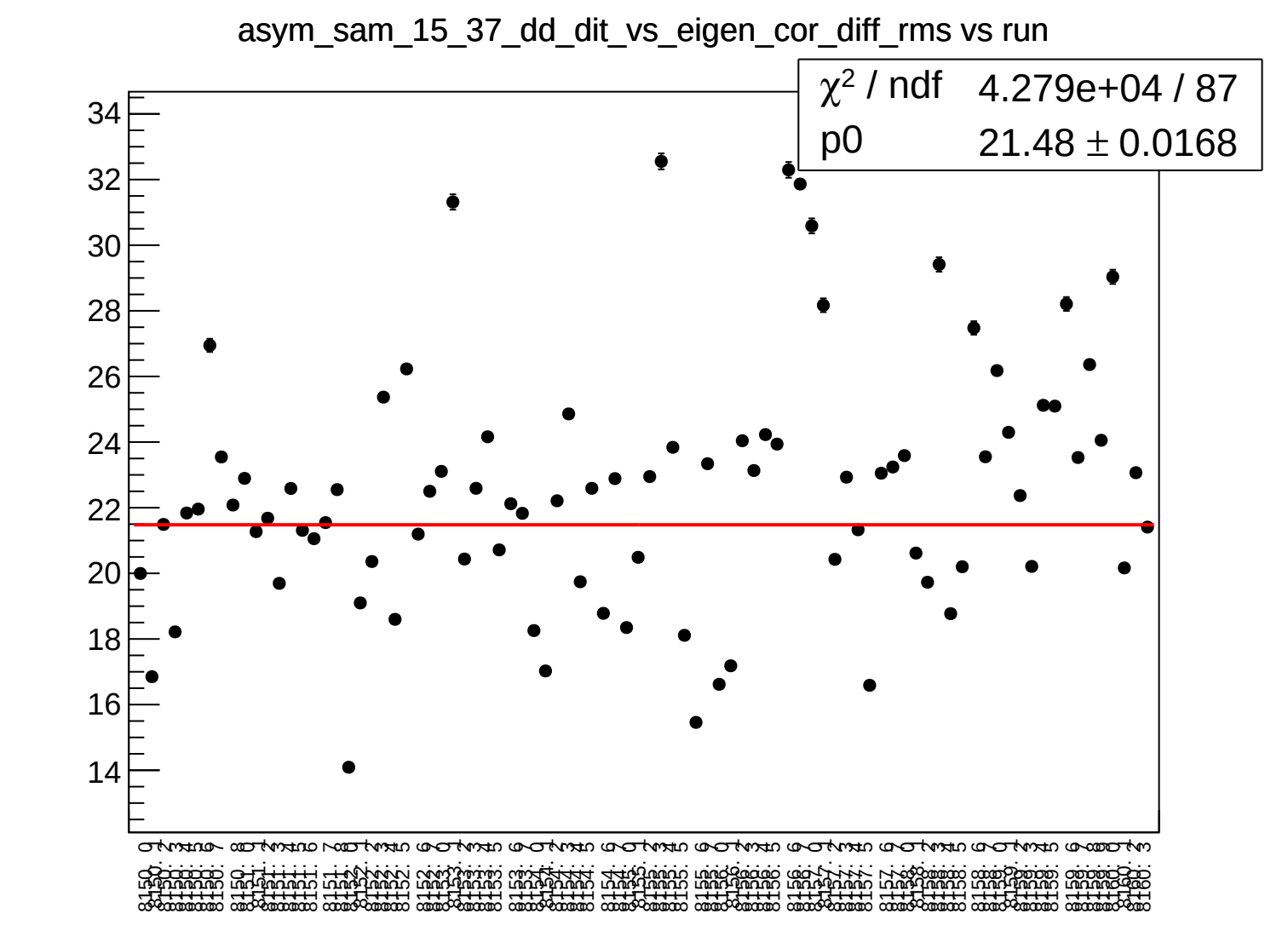

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 86.34 / 87
p0 2.384e−14 ± 6.908e−14
pull
Entries 88
Mean 45.62
Std Dev 71.94
pull1D
Entries 88
Mean −0.01715
Std Dev 0.9904

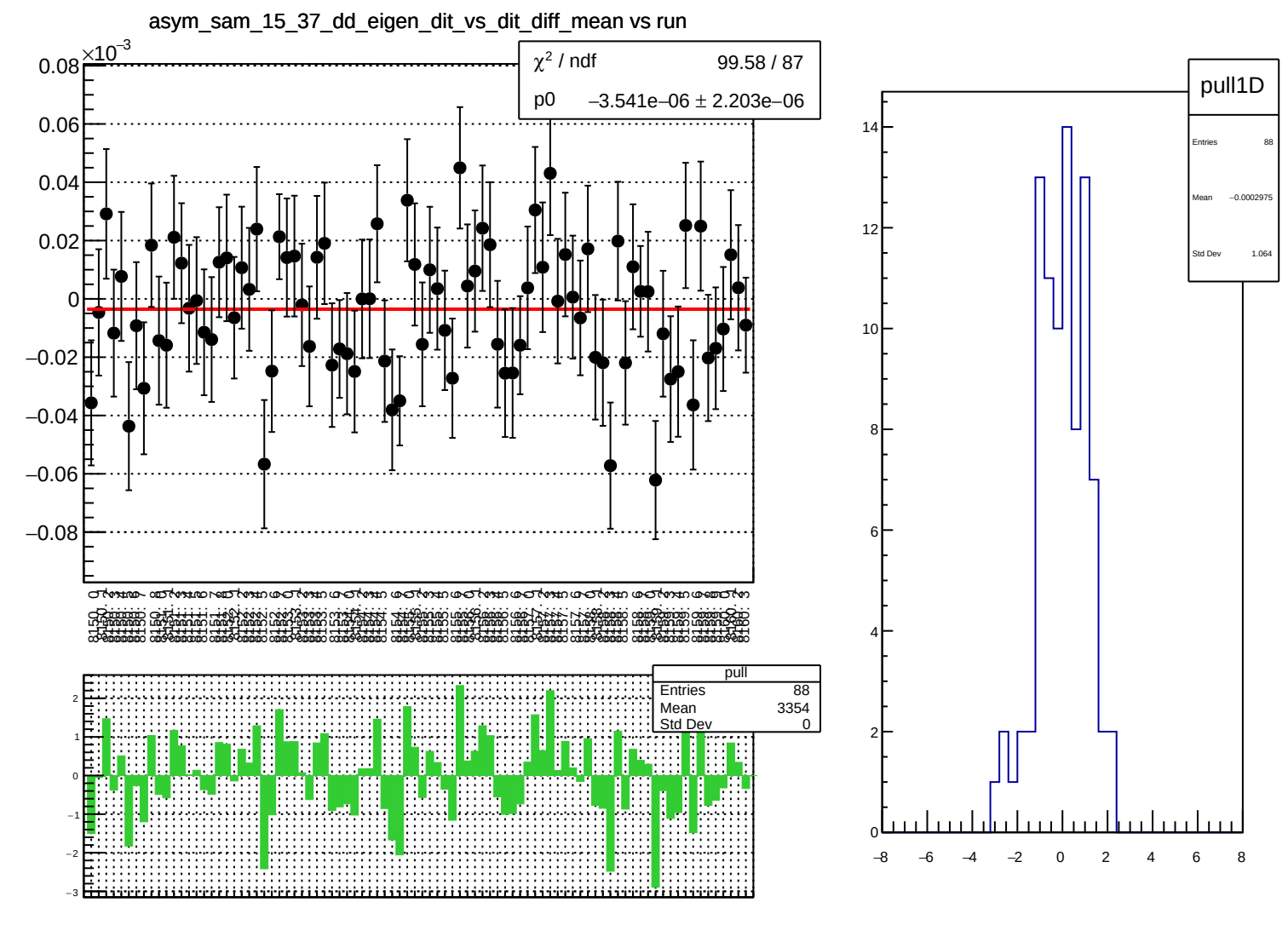

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.799e+05 / 87
p0 4.625e−11 ± 4.885e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

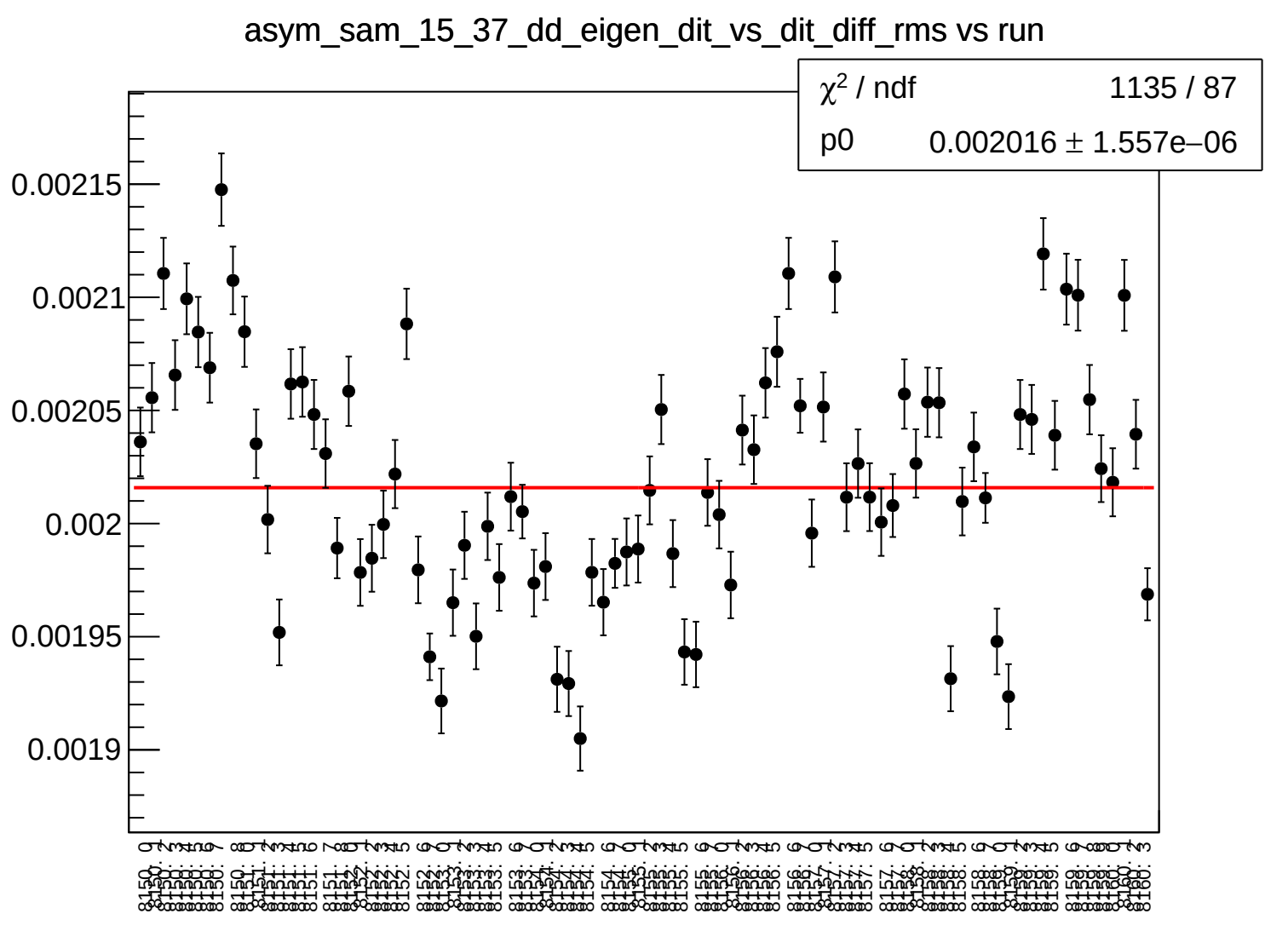

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.49 / 87
p0 −0.03127 ± 0.02377
pull
Entries 88
Mean 494.7
Std Dev 0
pull1D
Entries 88
Mean 0.007013
Std Dev 0.9013

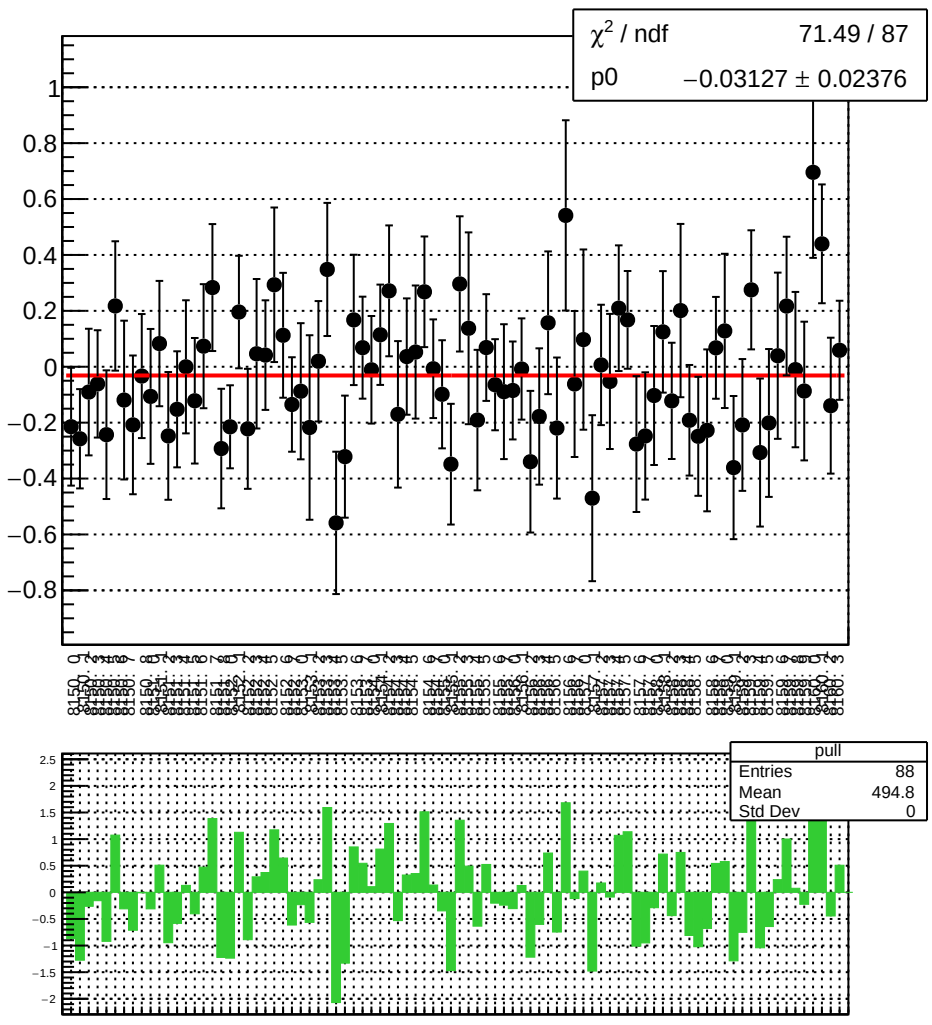

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.279e+04 / 87
p0 21.48 ± 0.0168
34
32
30
28
26
24
22
20
18
16
14

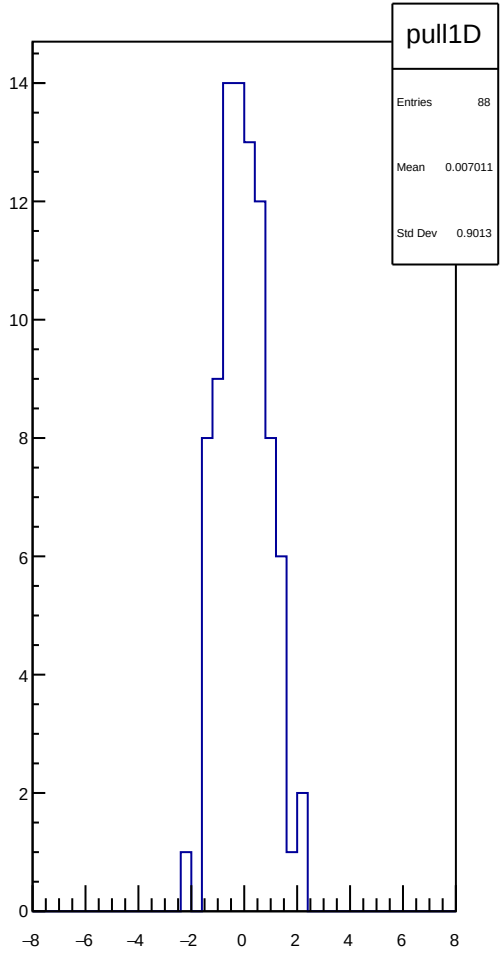

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.49 / 87
p0 −0.03127 ± 0.02377
pull
Entries 88
Mean 494.7
Std Dev 0
pull1D
Entries 88
Mean 0.007013
Std Dev 0.9013

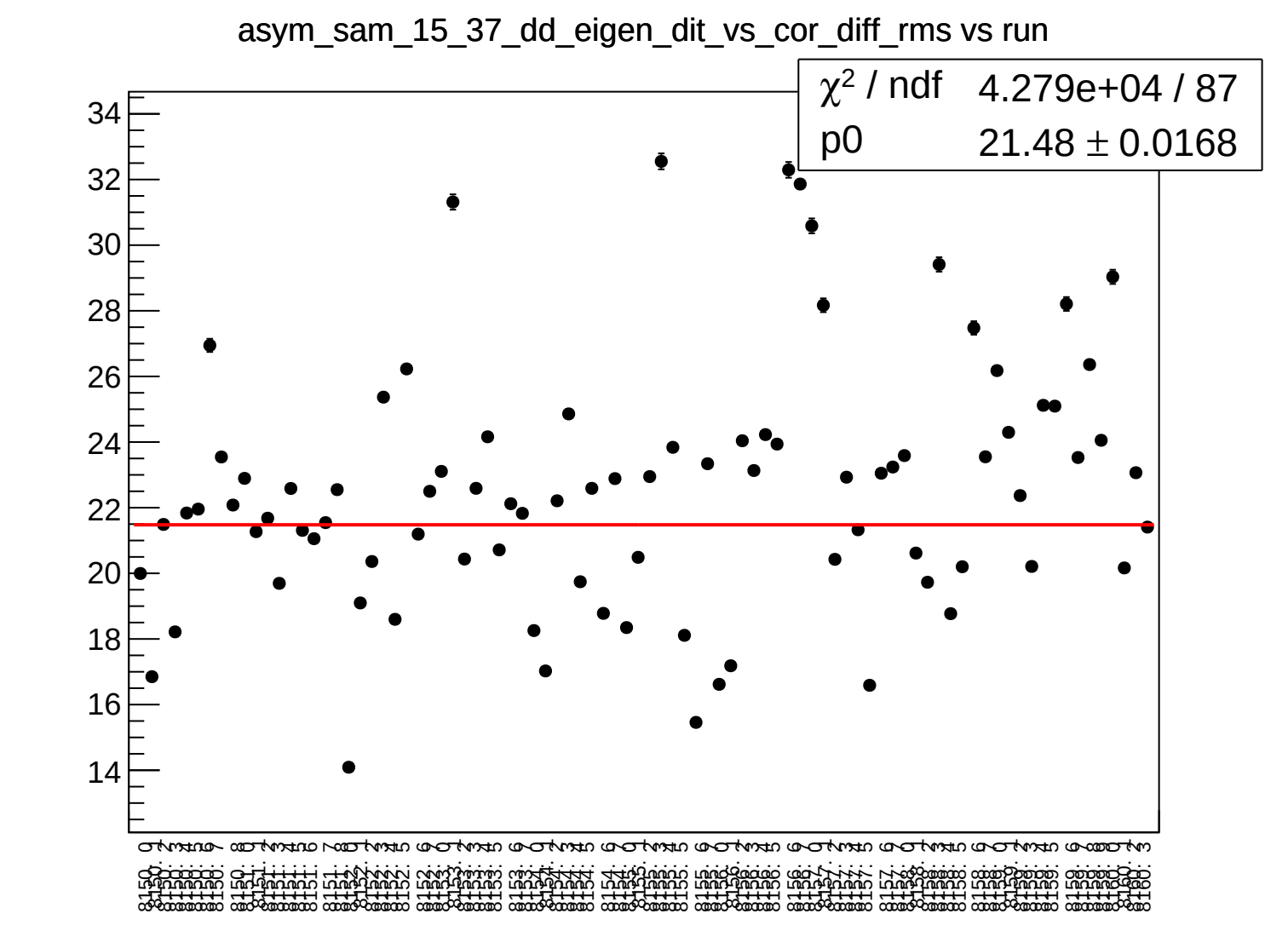

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.279e+04 / 87
p0 21.48 ± 0.0168
34
32
30
28
26
24
22
20
18
16
14

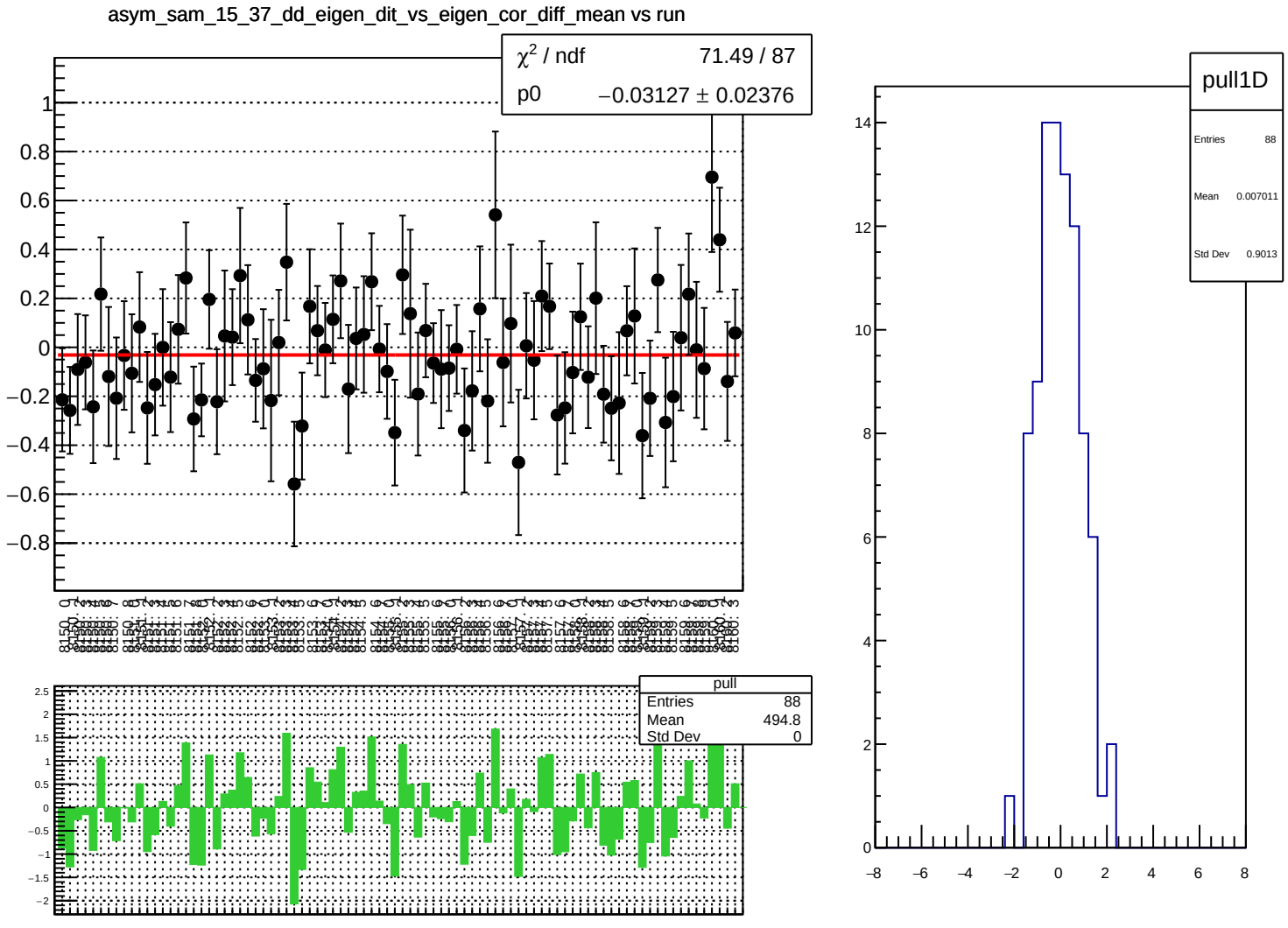

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.58 / 87
p0 −3.541e−06 ± 2.203e−06
pull
Entries 88
Mean 3354
Std Dev 0
pull1D
Entries 88
Mean −0.0002975
Std Dev 1.064

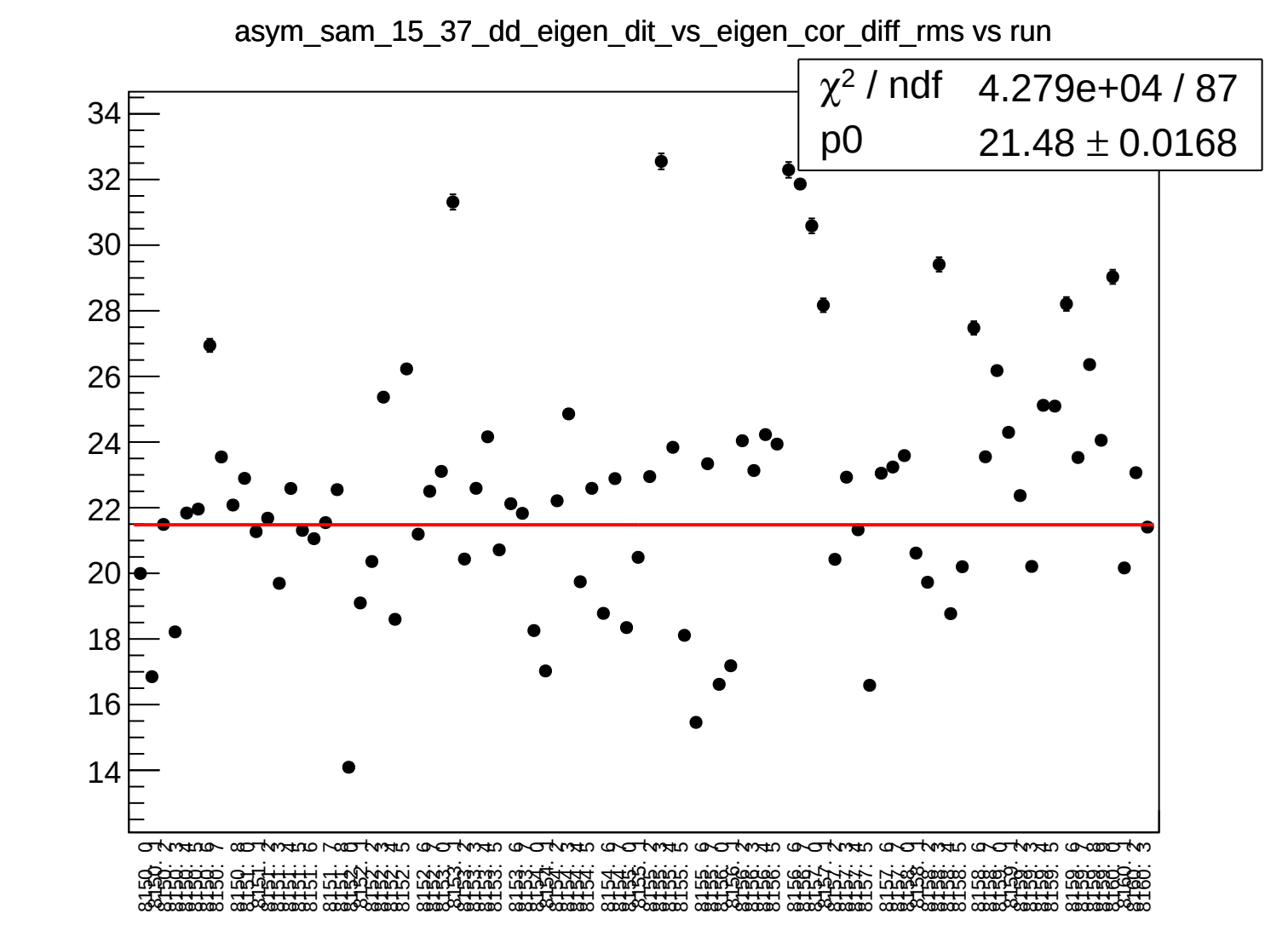

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1135 / 87
p0 0.002016 ± 1.557e−06
0.00215
0.0021
0.00205
0.002
0.00195
0.0019

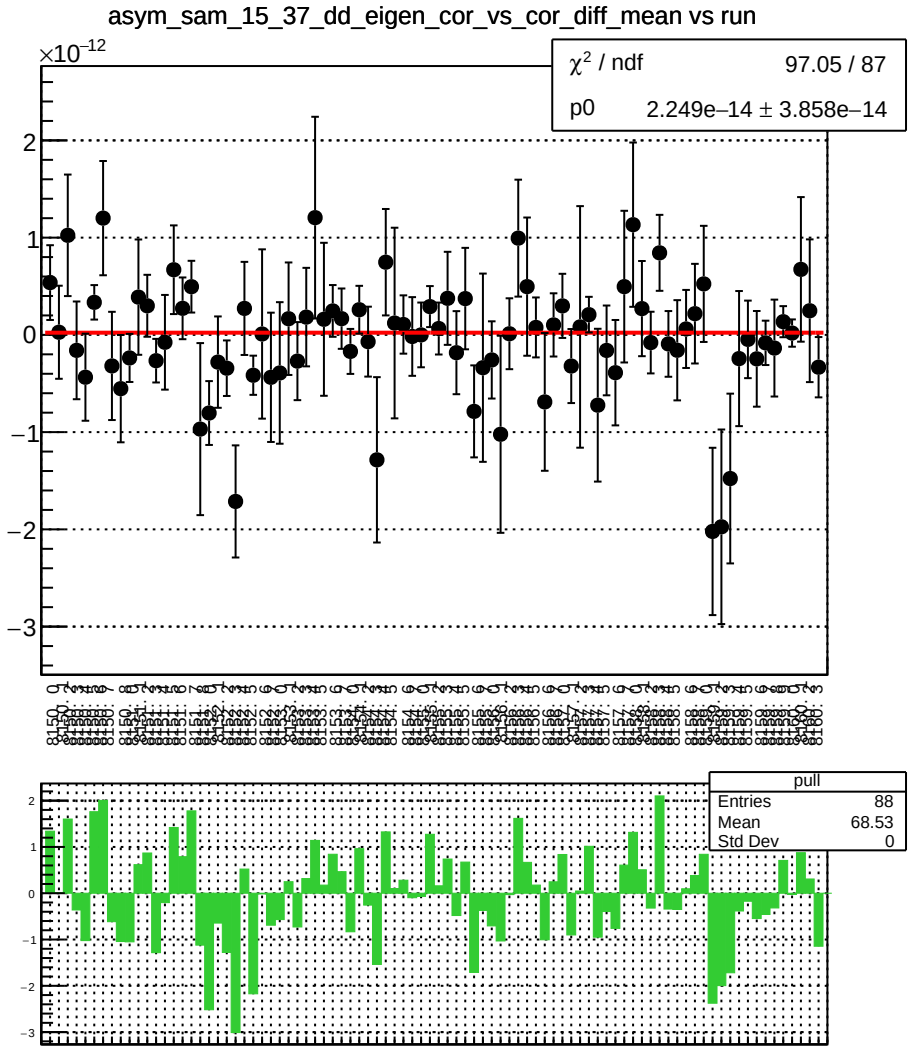

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.49 / 87
p0 −0.03127 ± 0.02376
pull
Entries 88
Mean 494.8
Std Dev 0

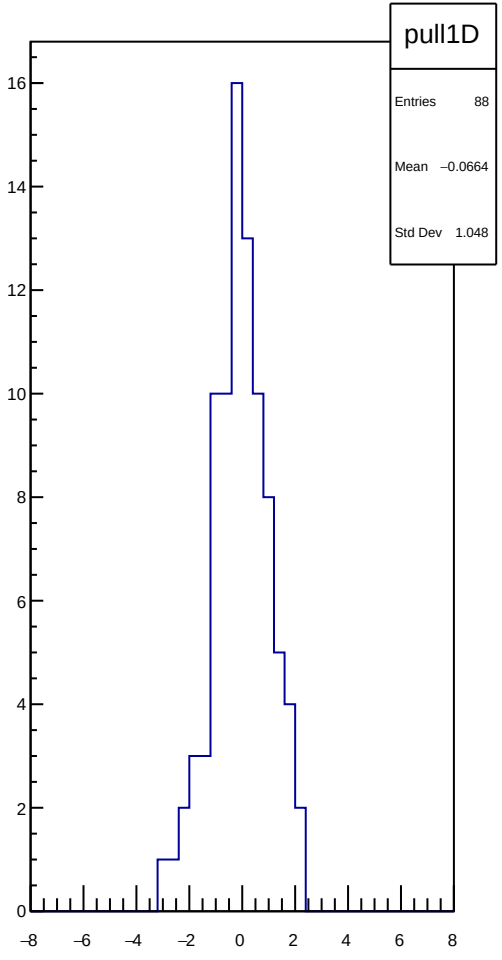

pull1D
Entries 88
Mean 0.007011
Std Dev 0.9013

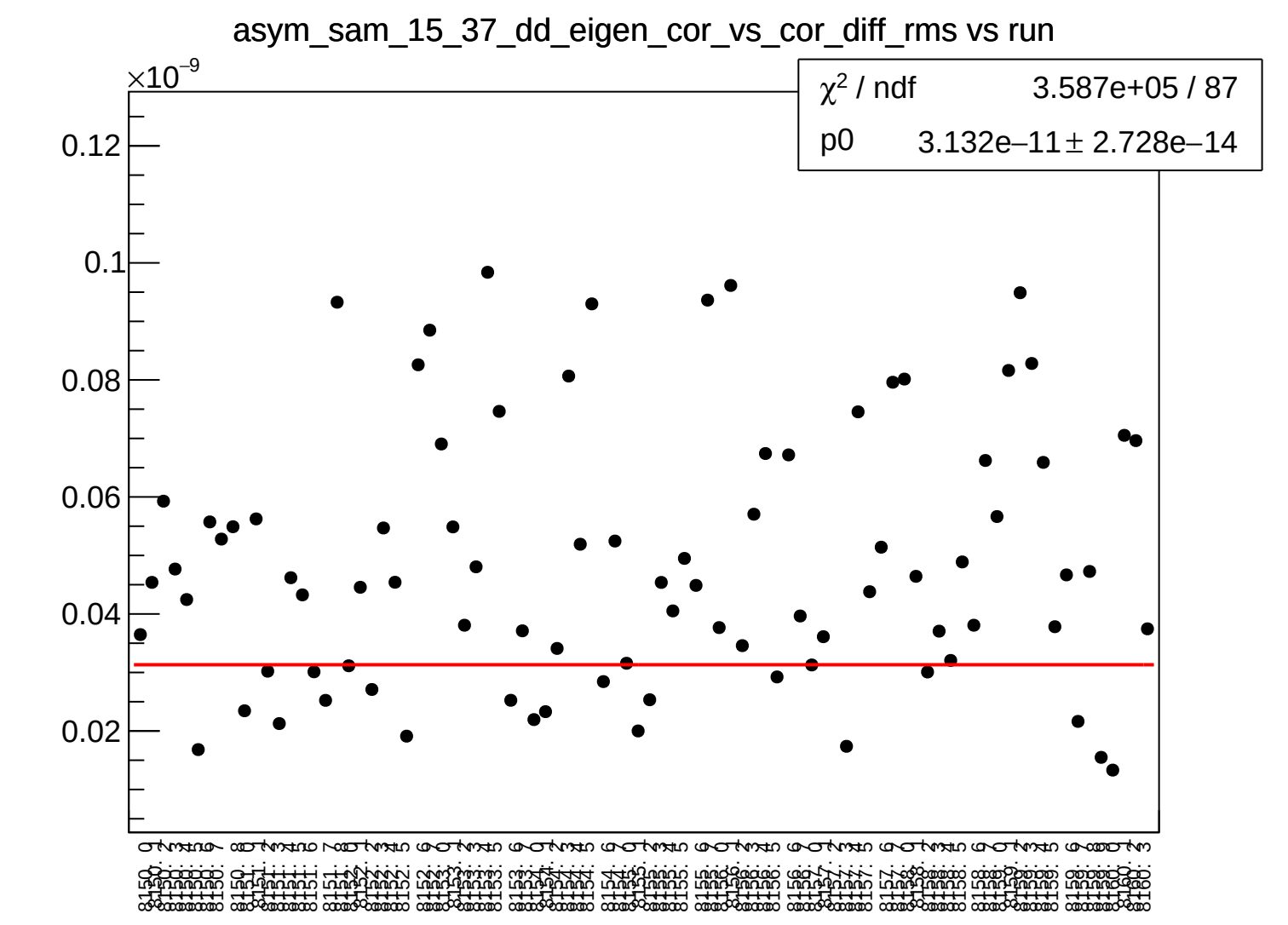

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.279e+04 / 87
p0 21.48 ± 0.0168
34
32
30
28
26
24
22
20
18
16
14

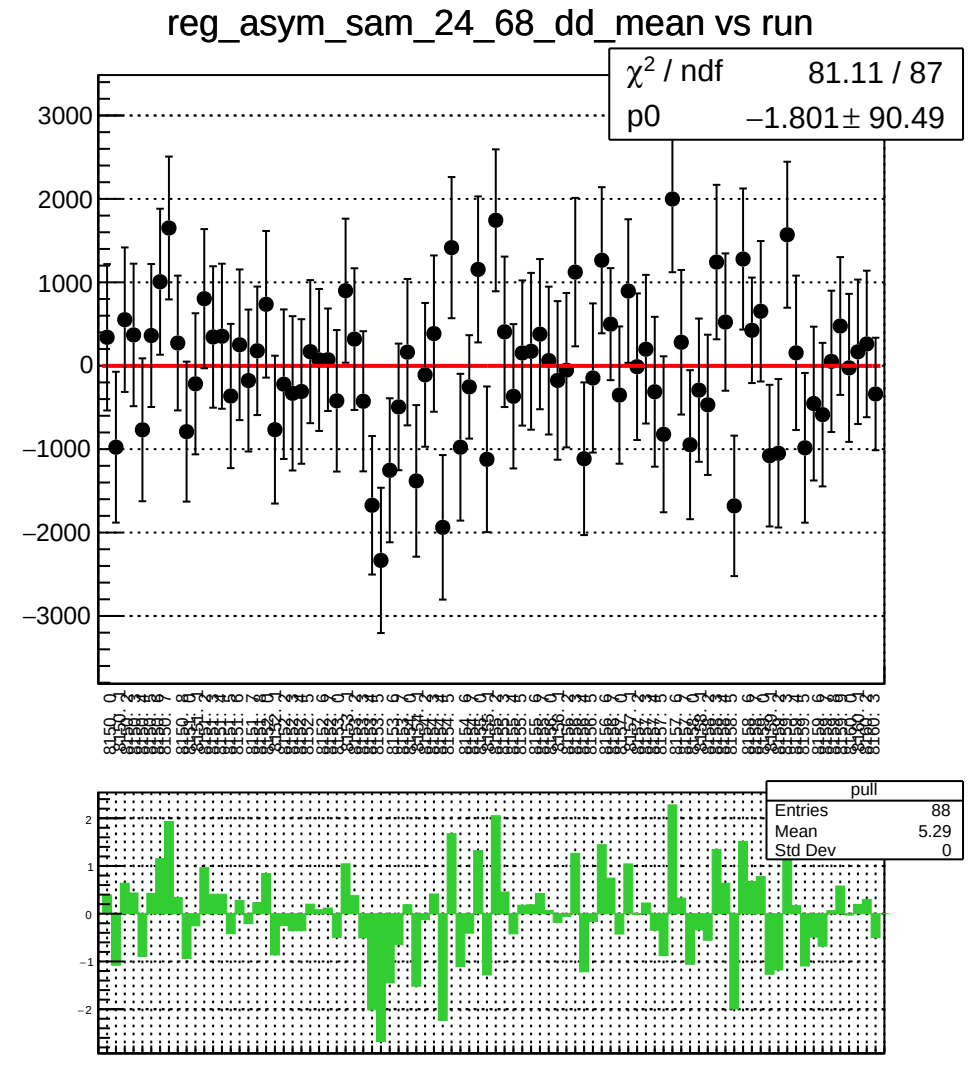

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.49 / 87
p0 −0.03127 ± 0.02376
pull
Entries 88
Mean 494.8
Std Dev 0
pull1D
Entries 88
Mean 0.007011
Std Dev 0.9013

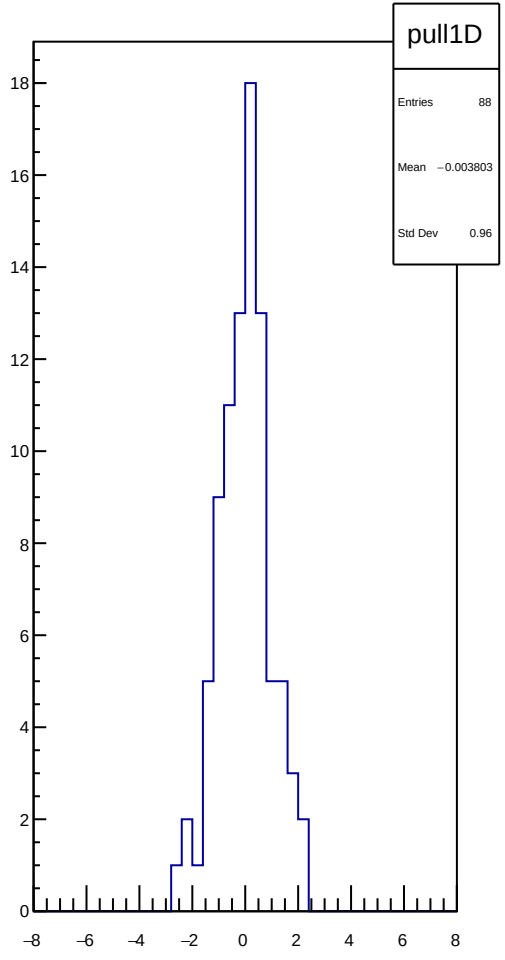

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.279e+04 / 87
p0 21.48 ± 0.0168
34
32
30
28
26
24
22
20
18
16
14

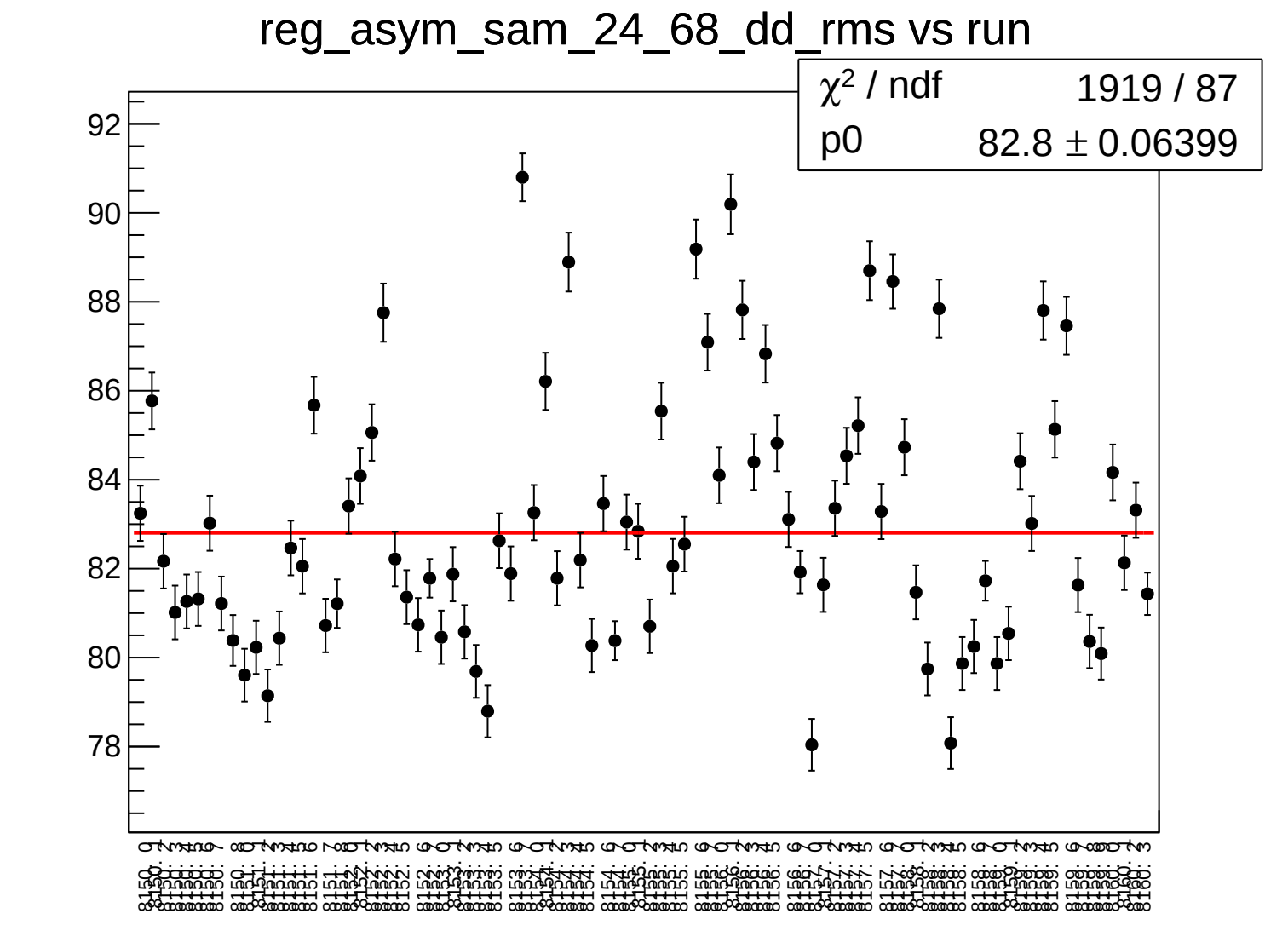

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.05 / 87
p0 2.249e−14 ± 3.858e−14
pull
Entries 88
Mean 68.53
Std Dev 0

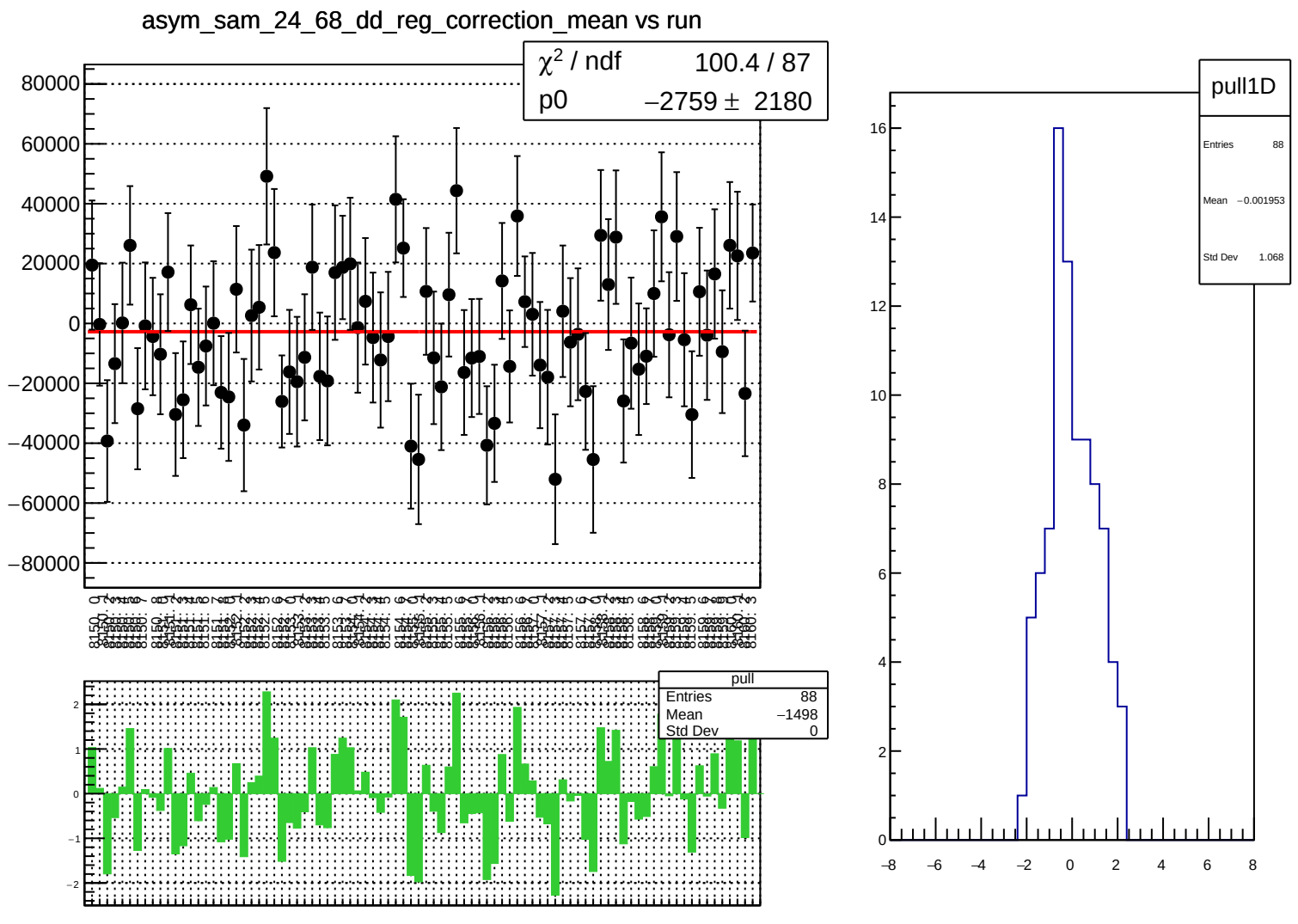

pull1D
Entries 88
Mean −0.0664
Std Dev 1.048

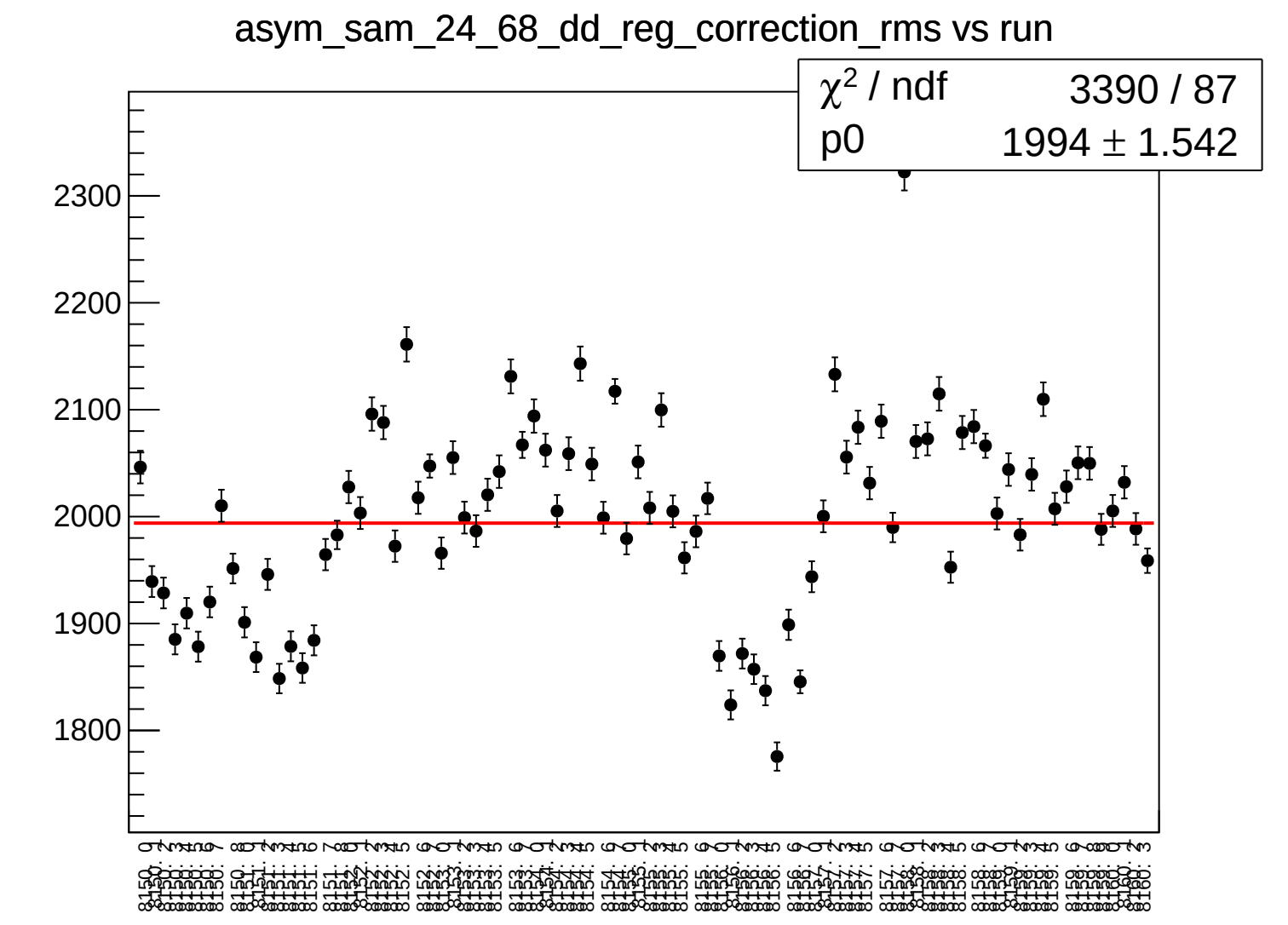

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.587e+05 / 87
p0 3.132e−11 ± 2.728e−14
0.12
0.1
0.08
0.06
0.04
0.02

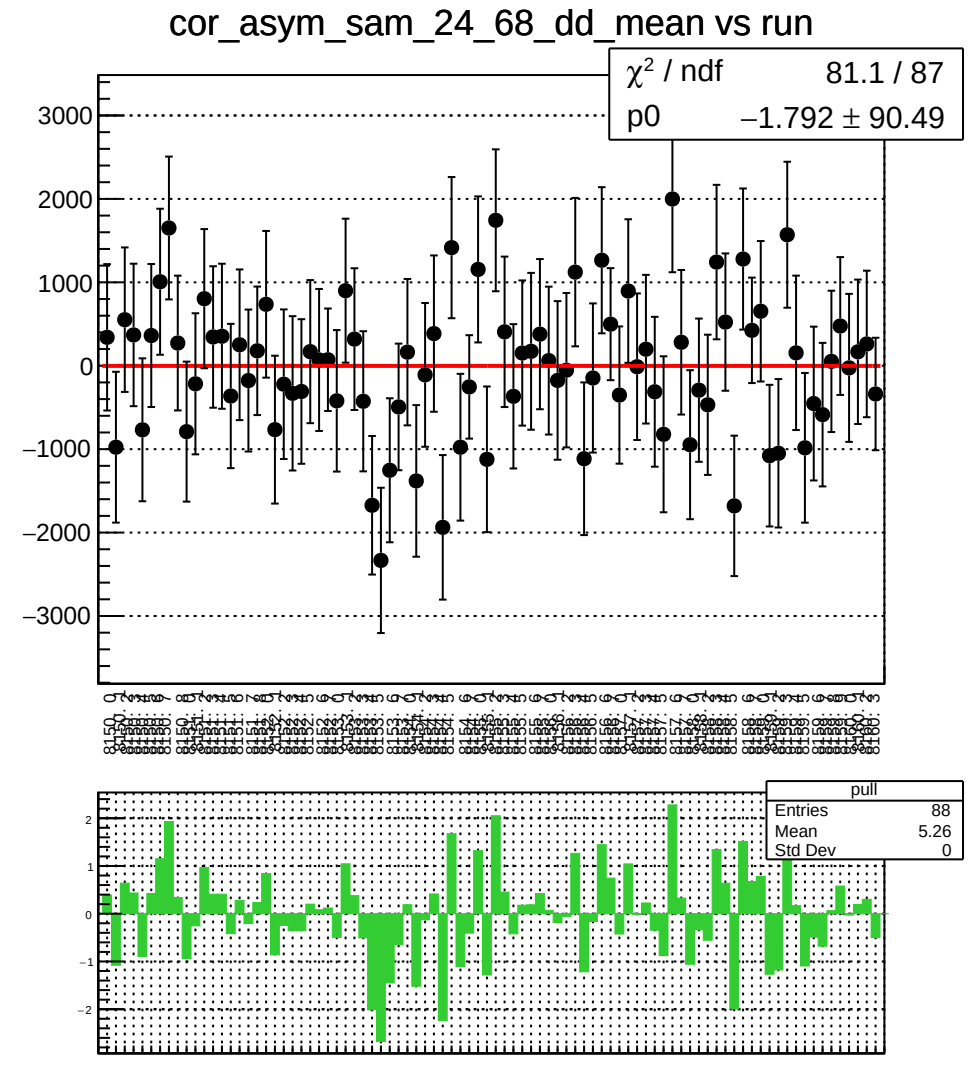

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 81.11 / 87
p0 −1.801 ± 90.49
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 5.29
Std Dev 0
2
1
0
−1
−2

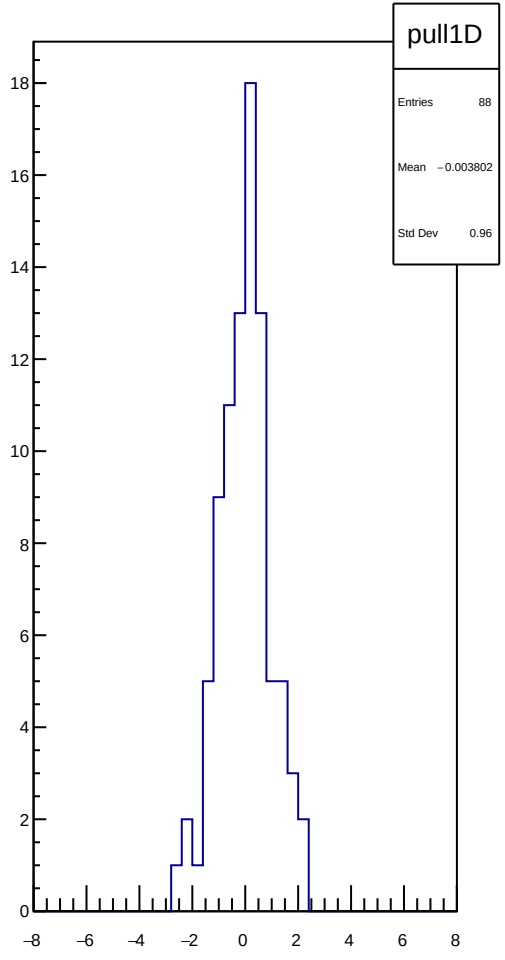

pull1D
Entries 88
Mean −0.003803
Std Dev 0.96
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

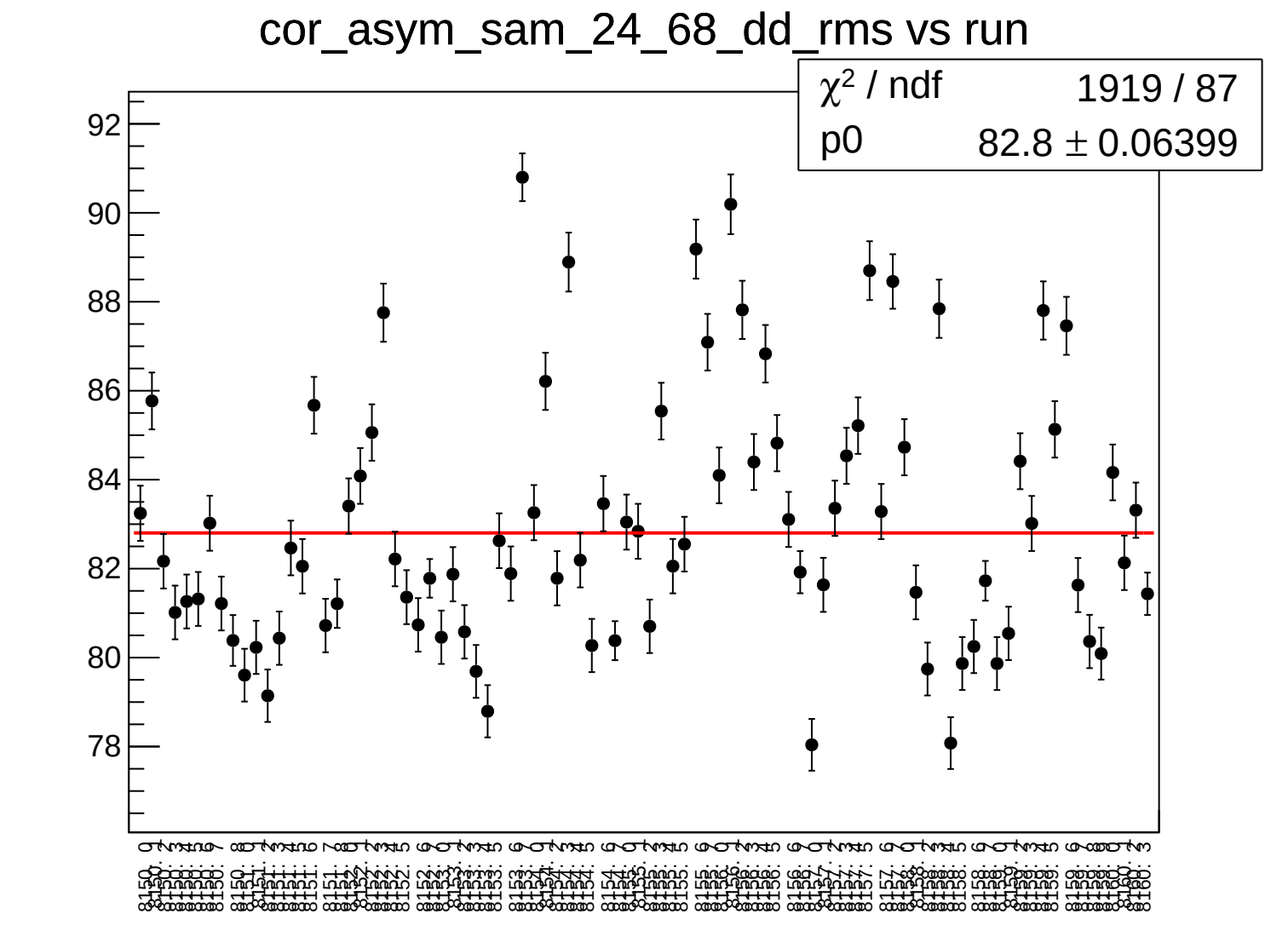

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1919 / 87
p0 82.8 ± 0.06399
92
90
88
86
84
82
80
78

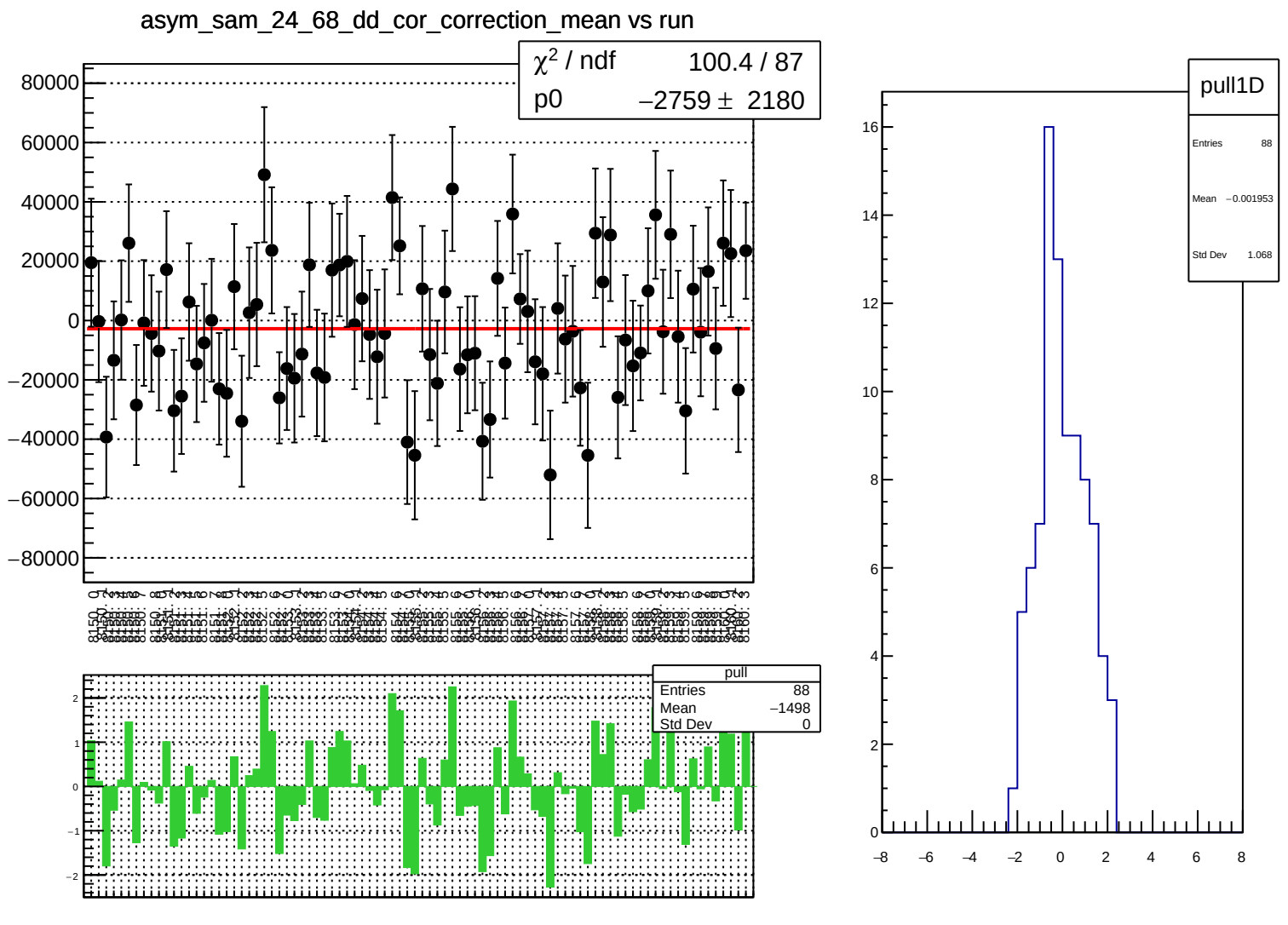

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 100.4 / 87
p0 −2759 ± 2180
pull
Entries 88
Mean −1498
Std Dev 0
pull1D
Entries 88
Mean −0.001953
Std Dev 1.068

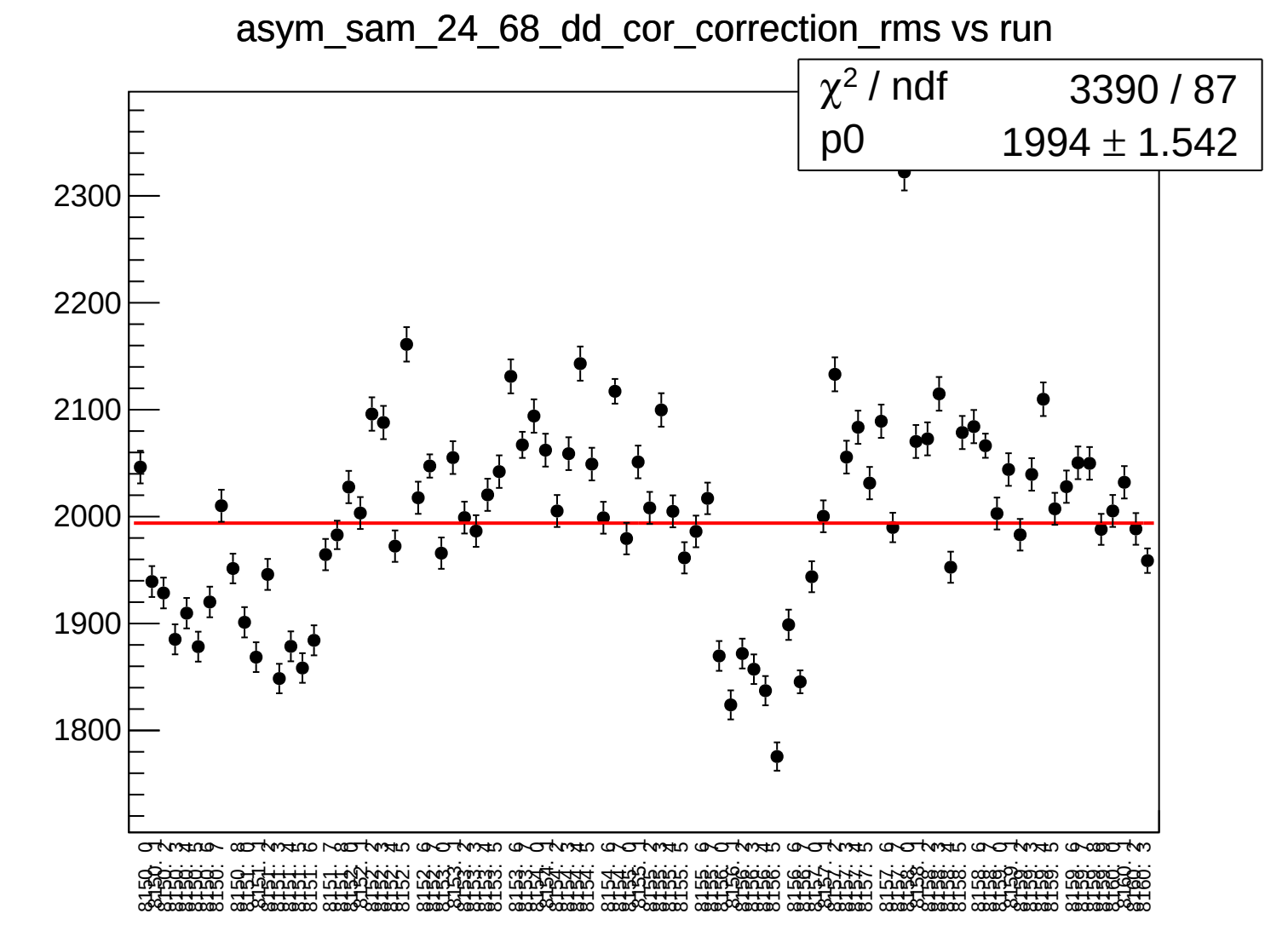

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 3390 / 87
p0 1994 ± 1.542
2300
2200
2100
2000
1900
1800

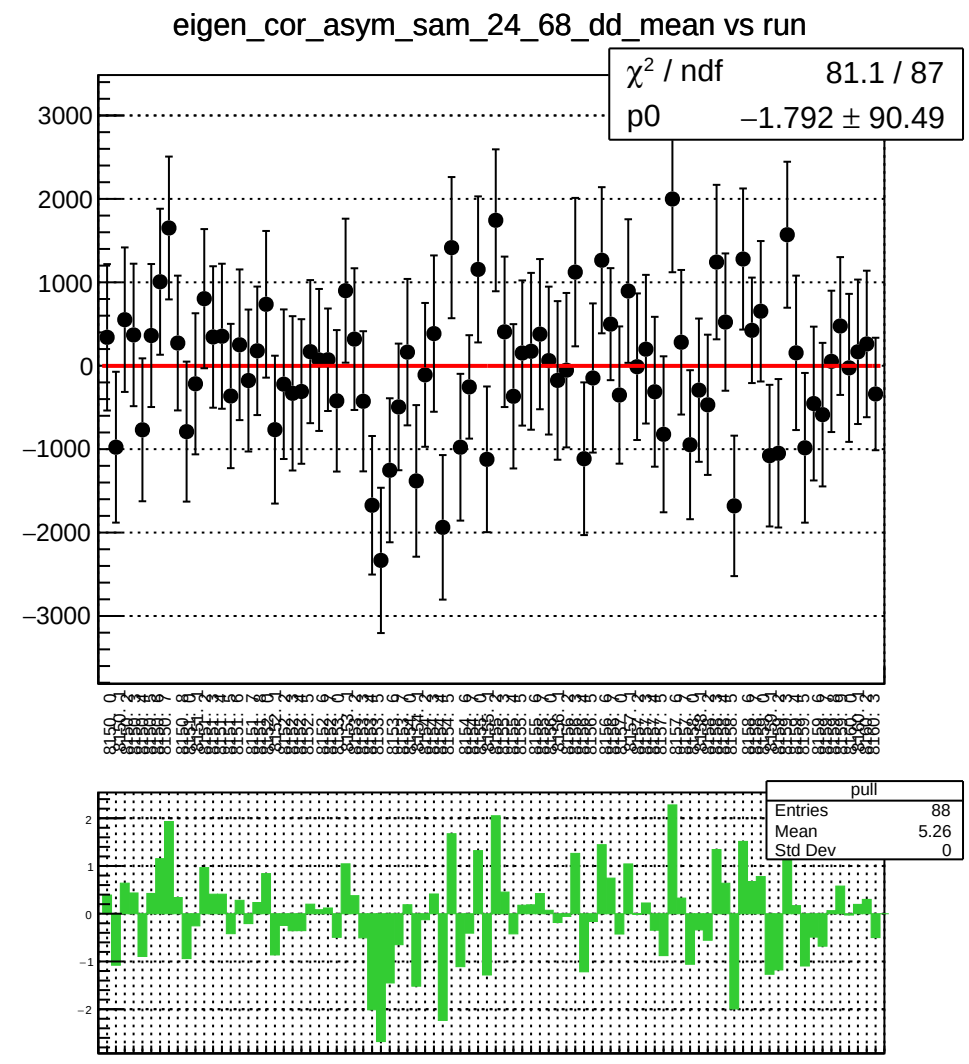

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 81.1 / 87
p0 −1.792 ± 90.49
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 5.26
Std Dev 0
2
1
0
−1

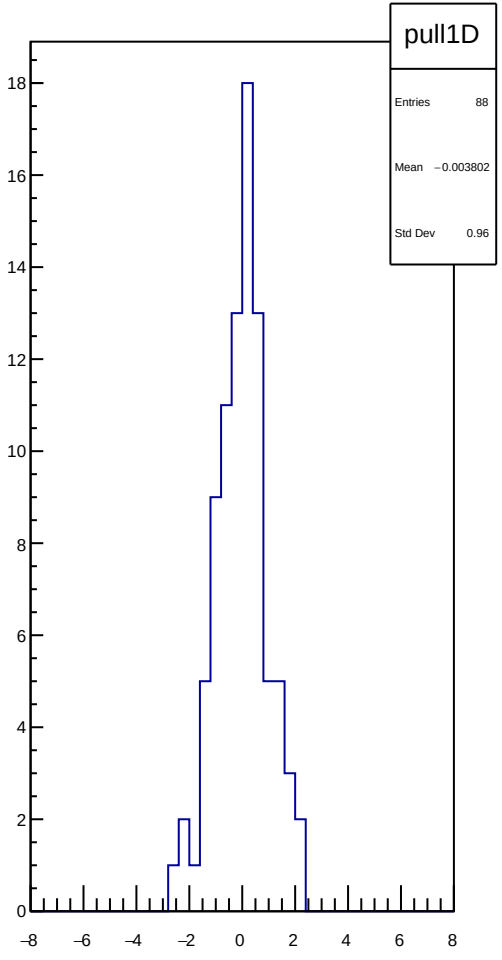

pull1D
Entries 88
Mean −0.003802
Std Dev 0.96
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

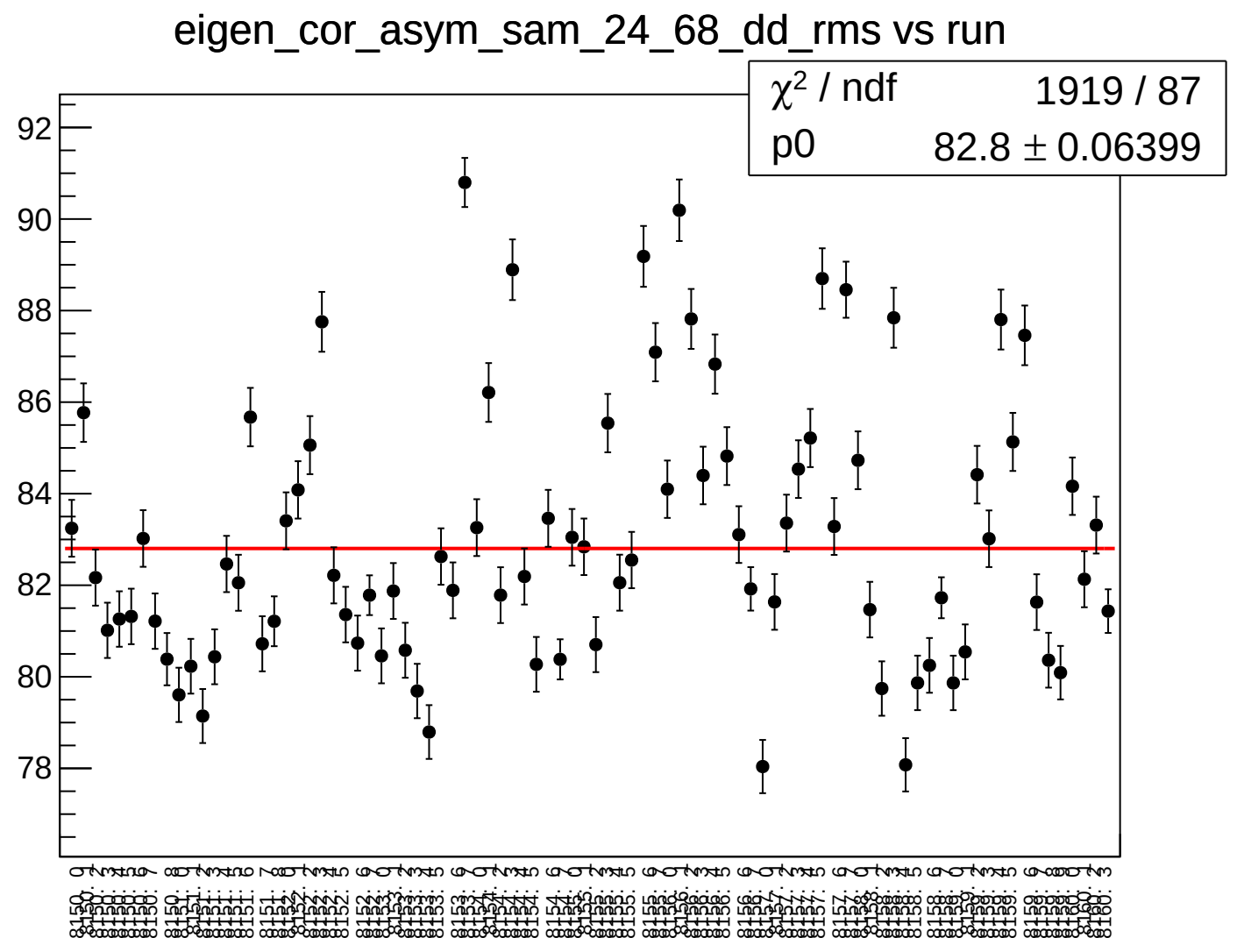

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1919 / 87
p0 82.8 ± 0.06399
92
90
88
86
84
82
80
78

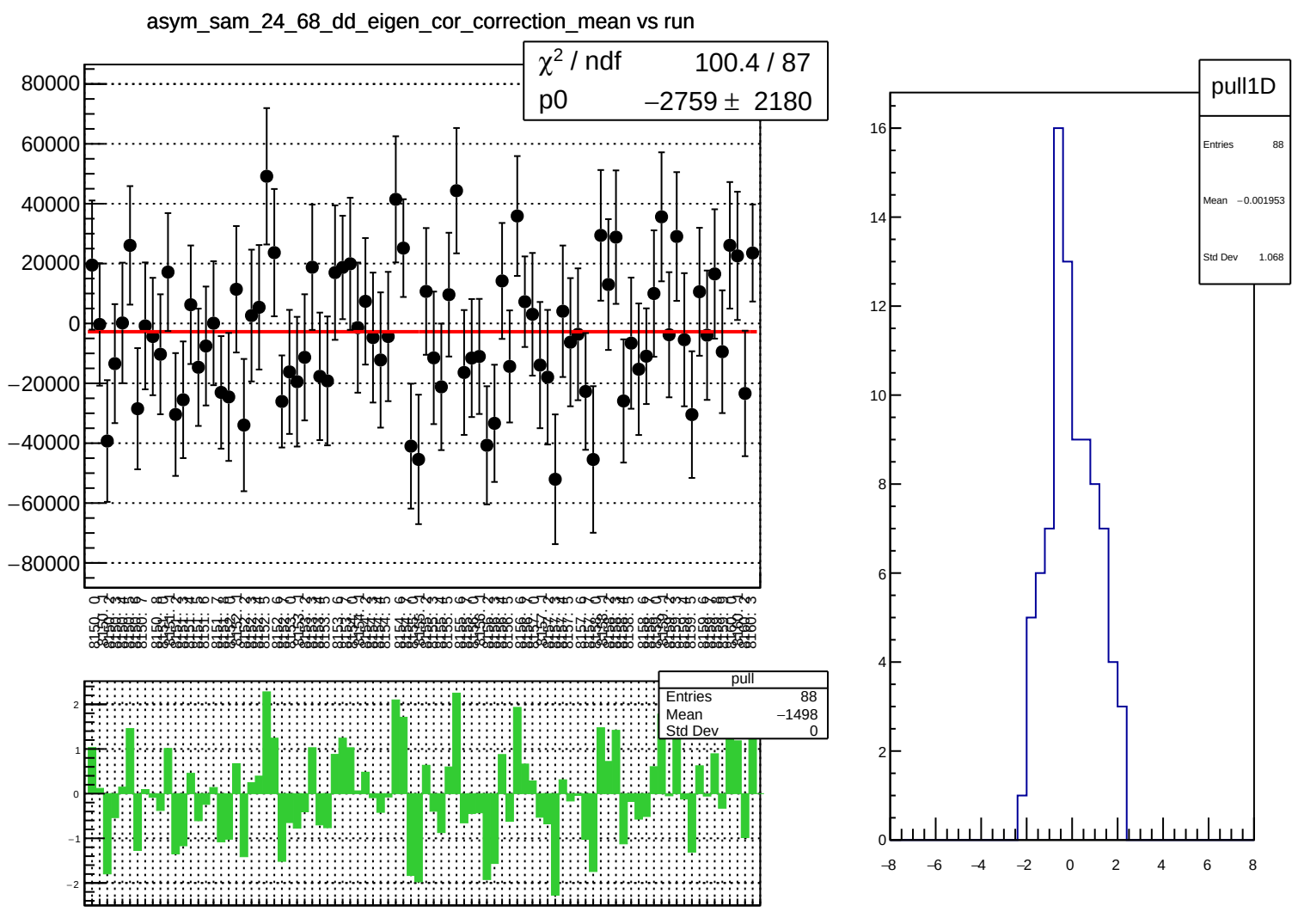

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 100.4 / 87
p0 −2759 ± 2180
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −1498
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001953
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

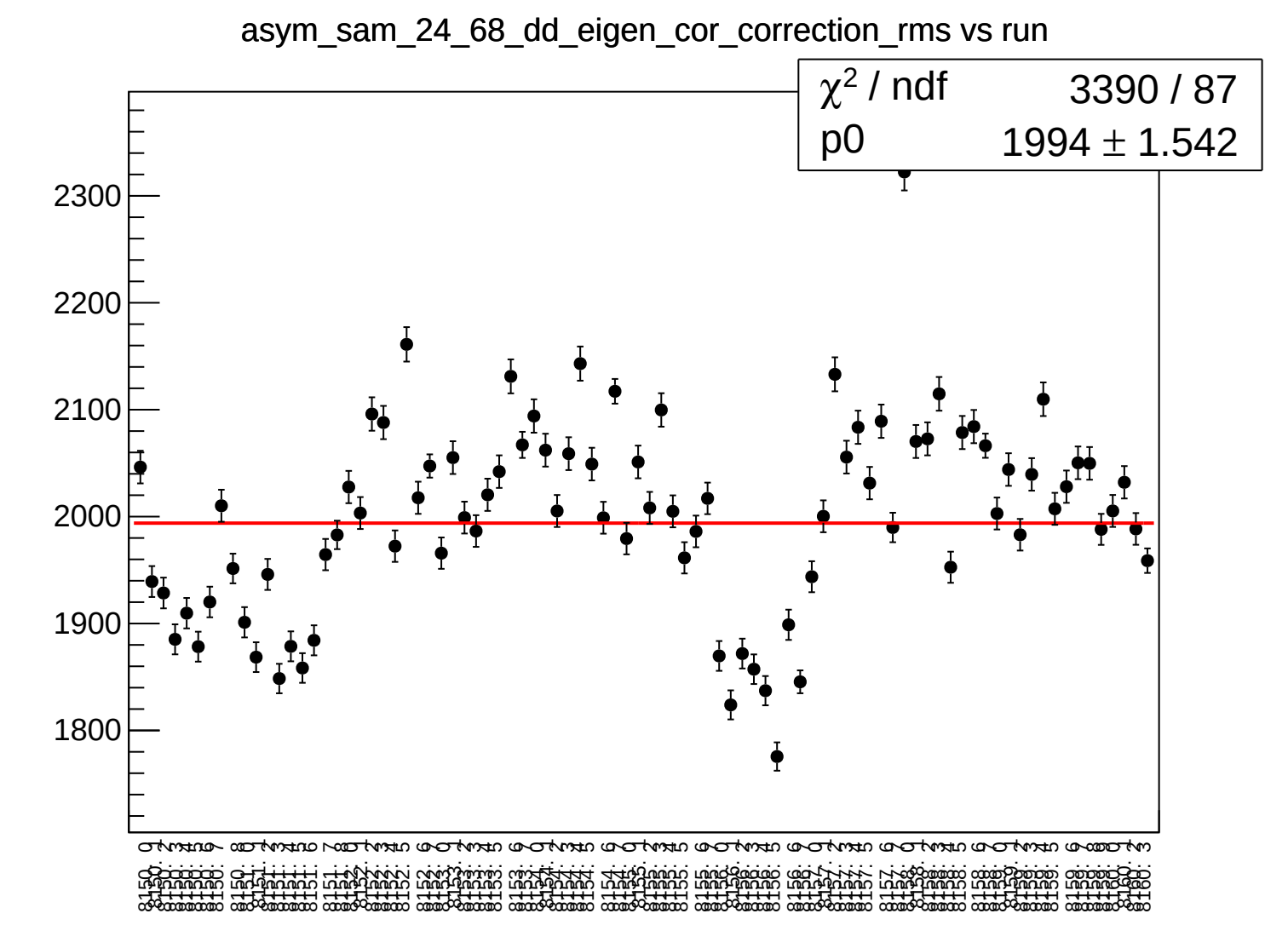

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 3390 / 87
p0 1994 ± 1.542
2300
2200
2100
2000
1900
1800

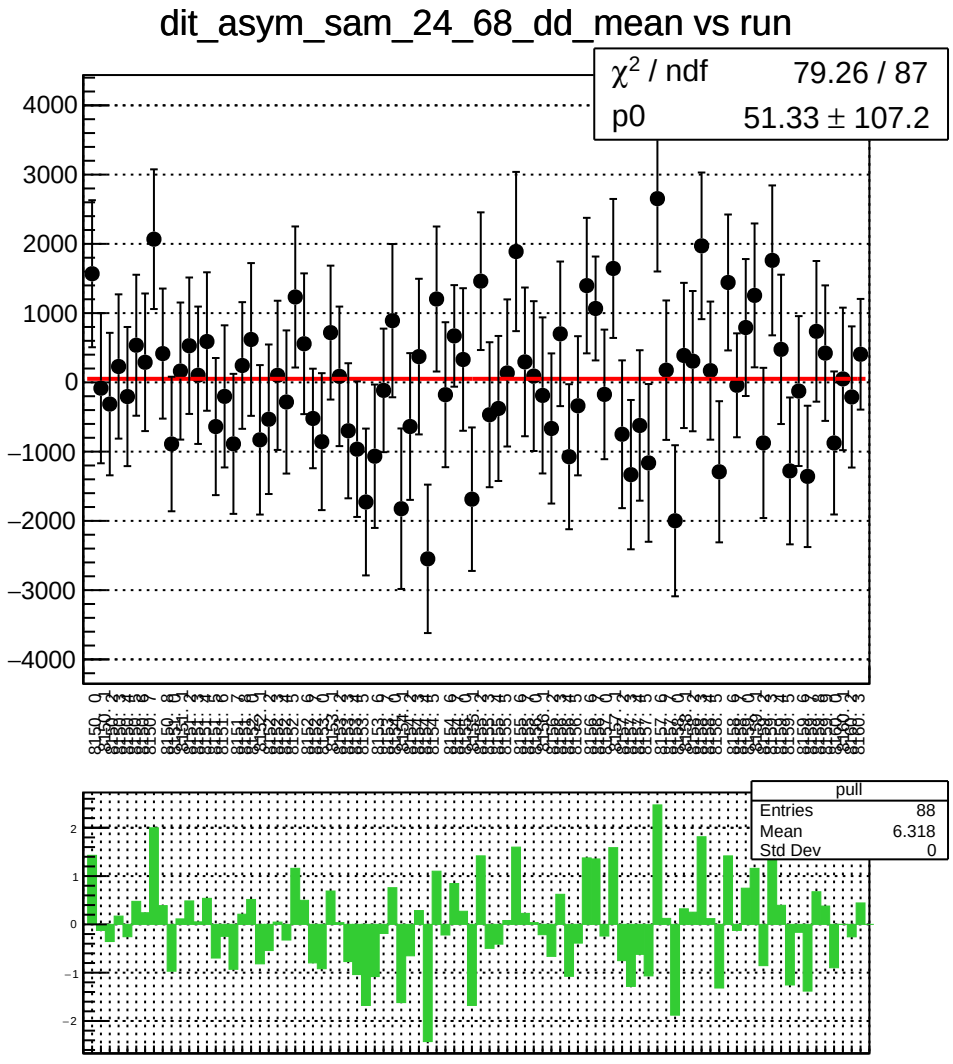

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 81.1 / 87
p0 −1.792 ± 90.49
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 5.26
Std Dev 0
2
1
0
−1

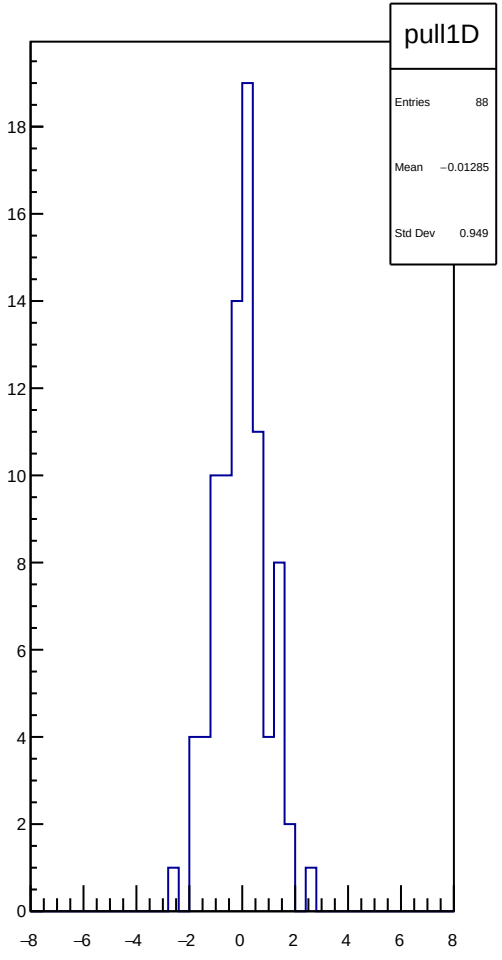

pull1D
Entries 88
Mean −0.003802
Std Dev 0.96
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

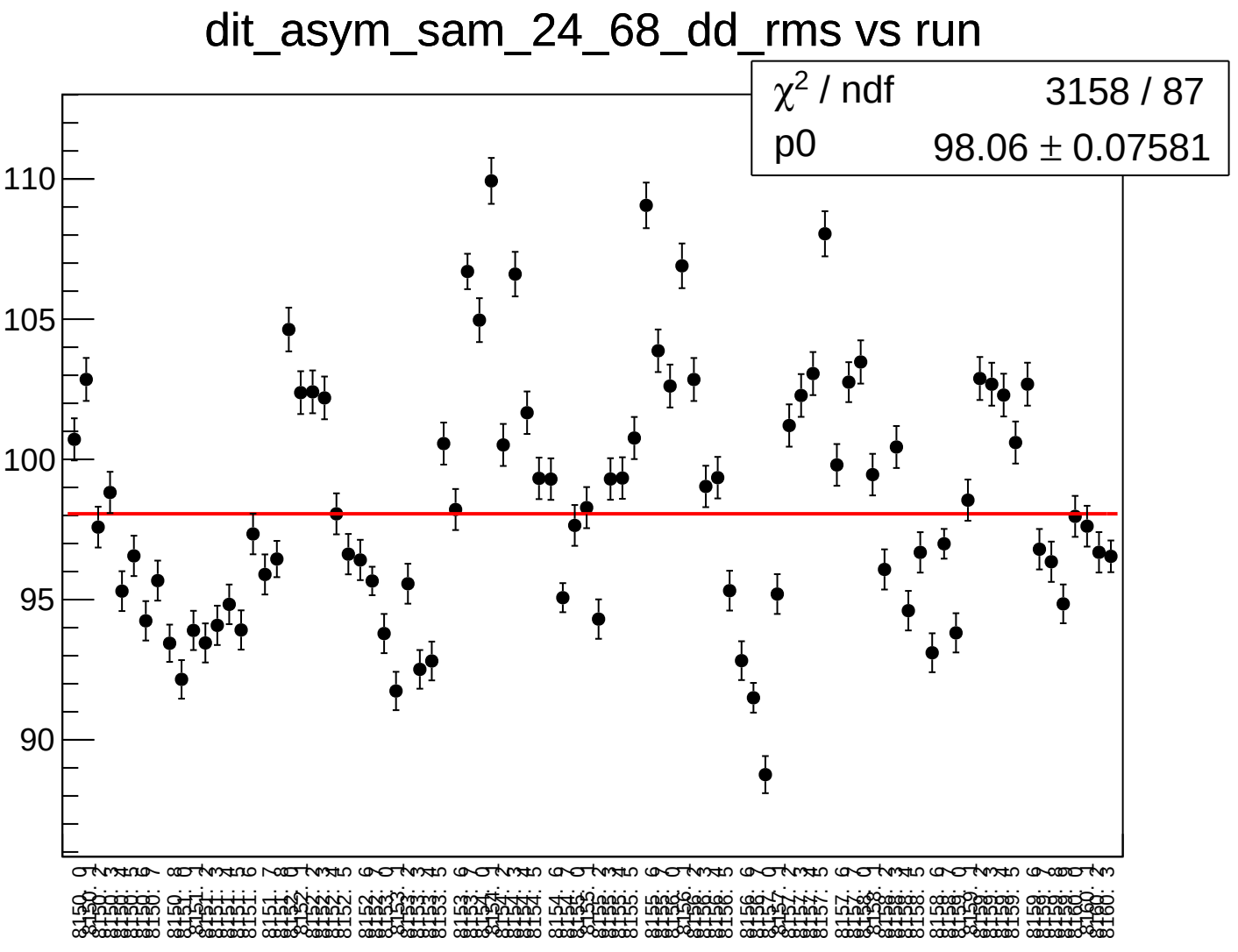

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1919 / 87
p0 82.8 ± 0.06399
92
90
88
86
84
82
80
78

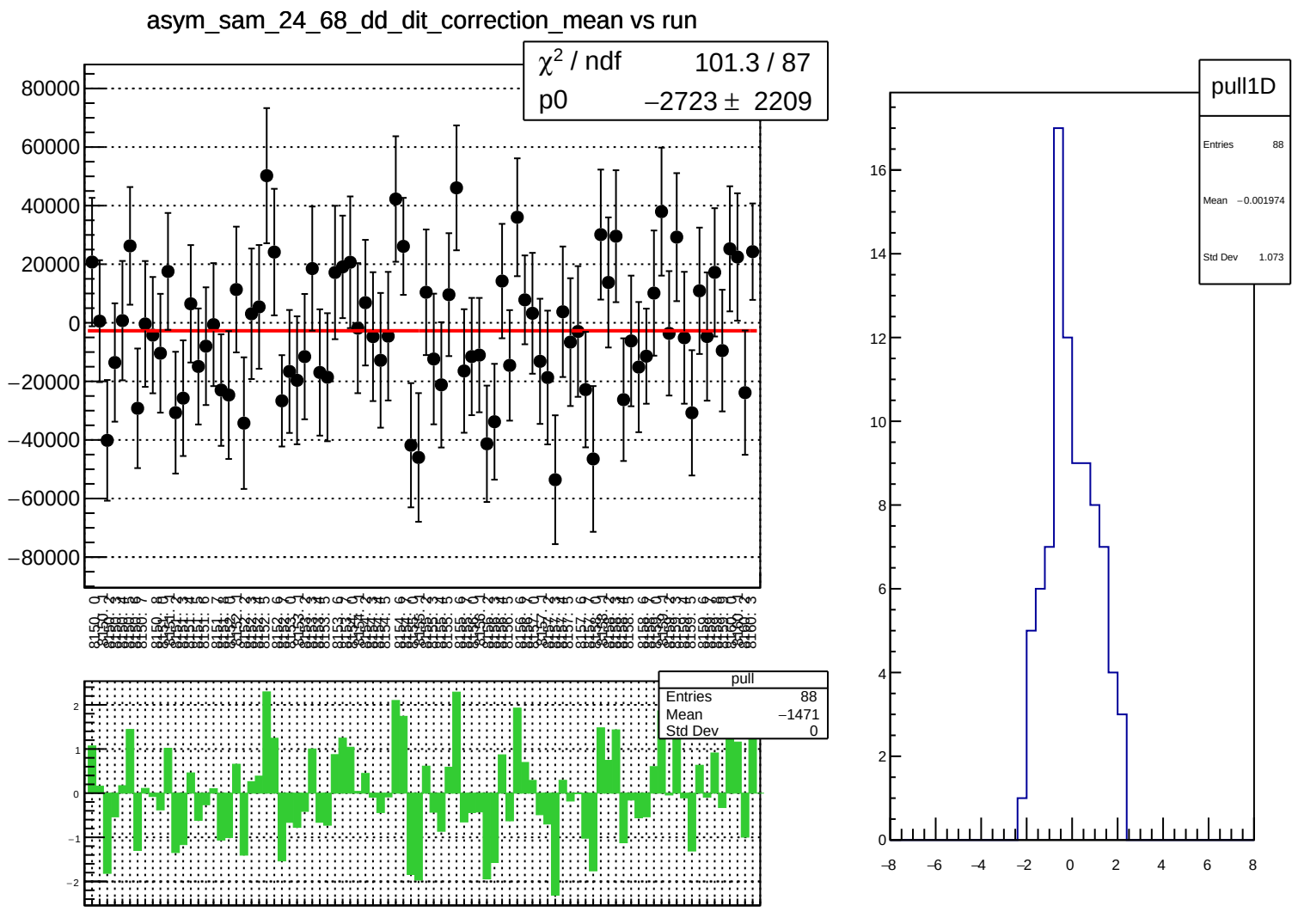

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.4 / 87
p0 −2759 ± 2180
pull
Entries 88
Mean −1498
Std Dev 0
pull1D
Entries 88
Mean −0.001953
Std Dev 1.068

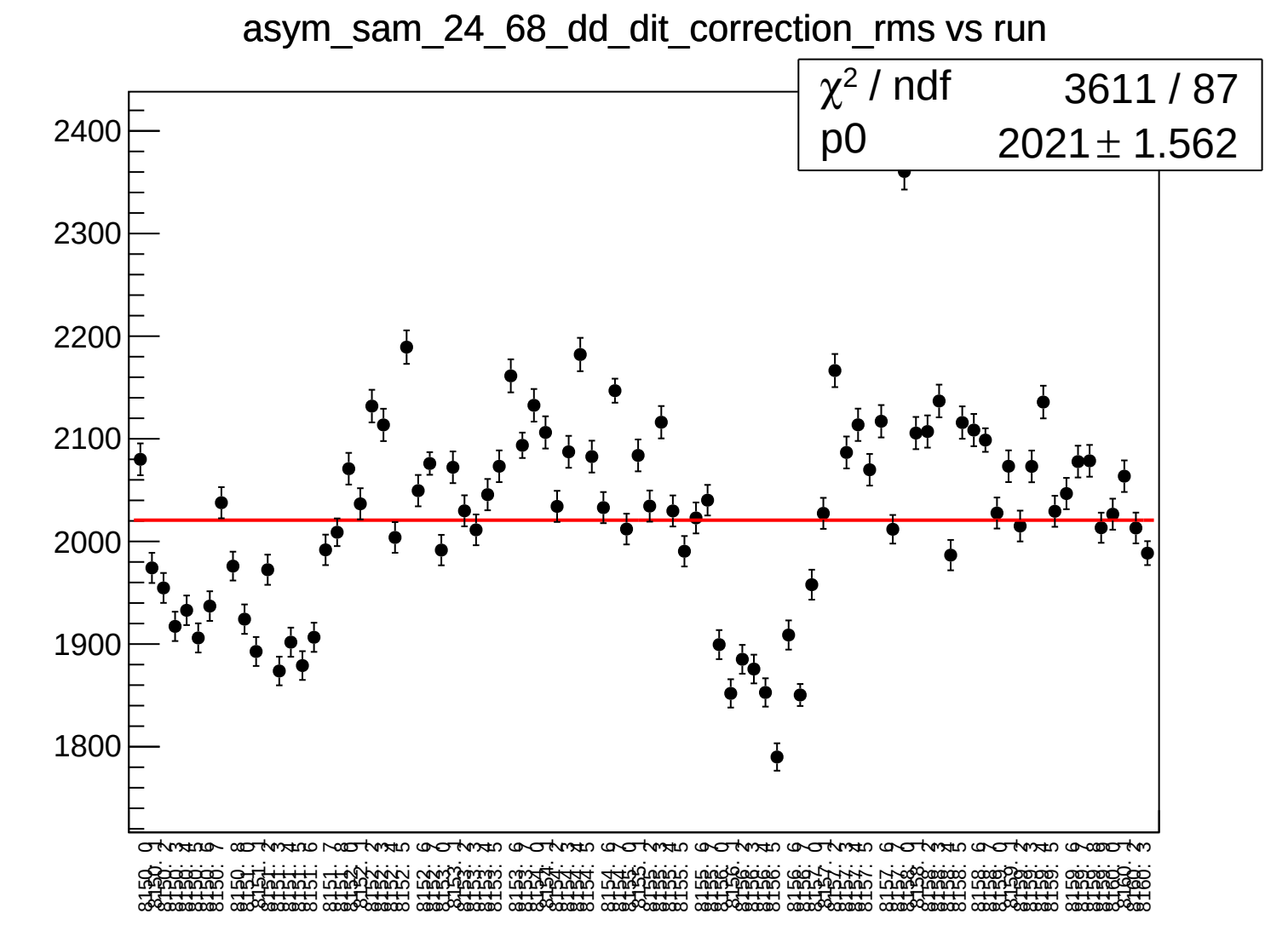

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 3390 / 87
p0 1994 ± 1.542
2300
2200
2100
2000
1900
1800

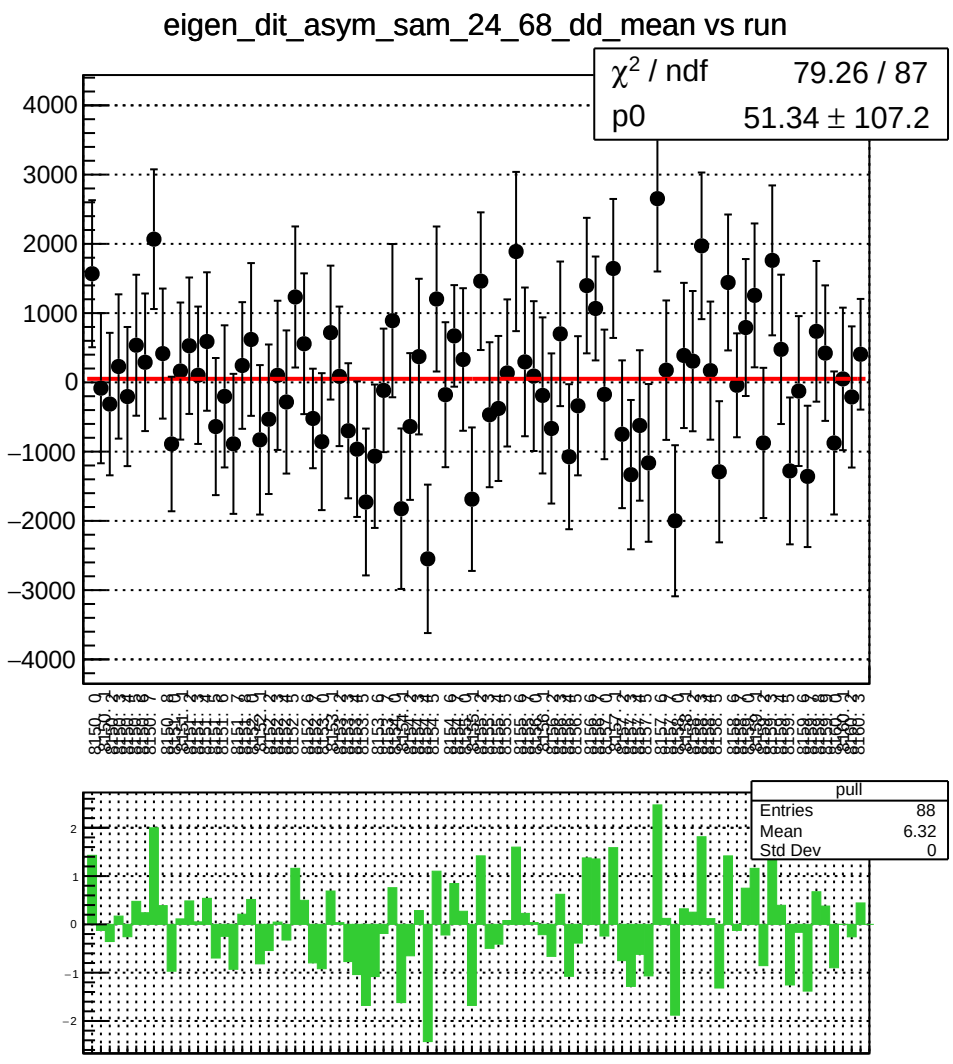

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 79.26 / 87
p0 51.33 ± 107.2
pull
Entries 88
Mean 6.318
Std Dev 0

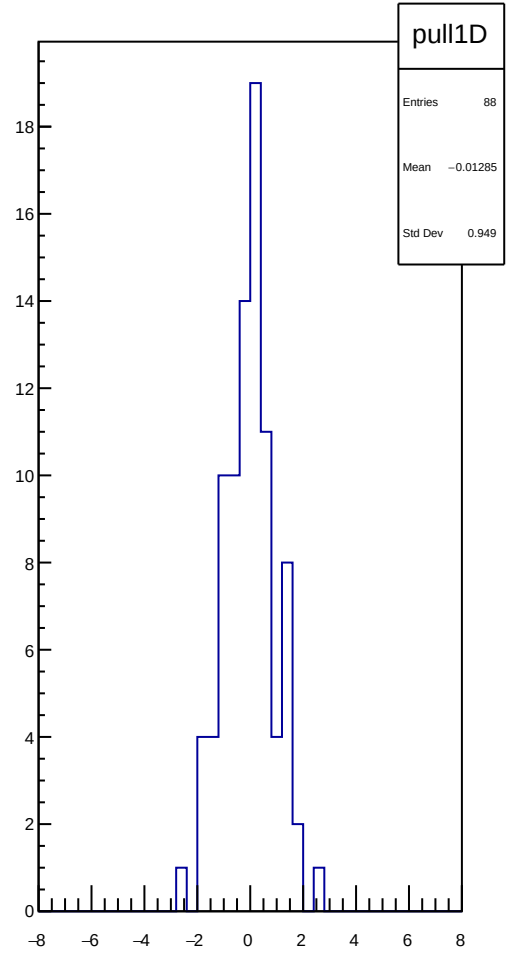

pull1D
Entries 88
Mean −0.01285
Std Dev 0.949

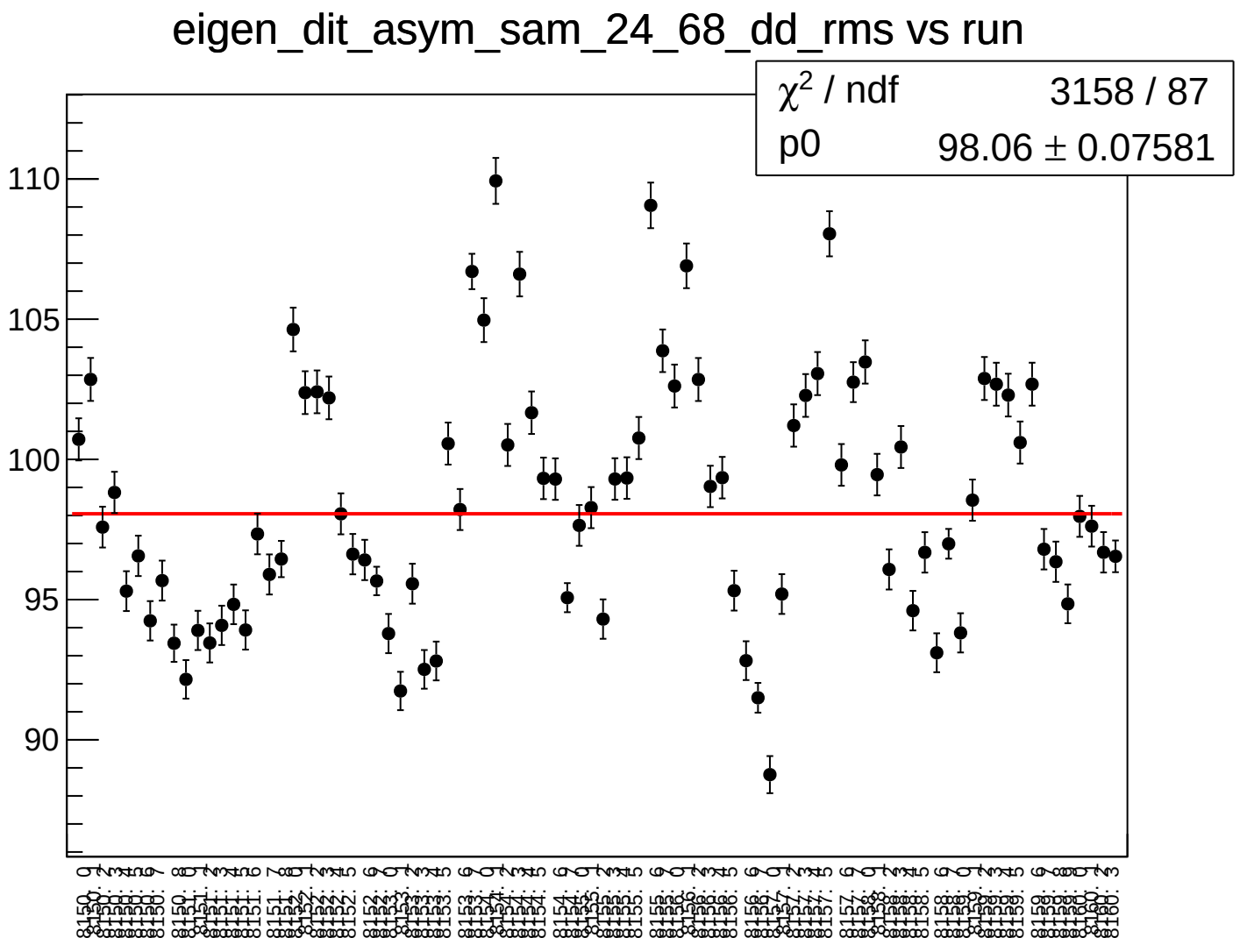

dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 3158 / 87
p0 98.06 ± 0.07581
110
105
100
95
90

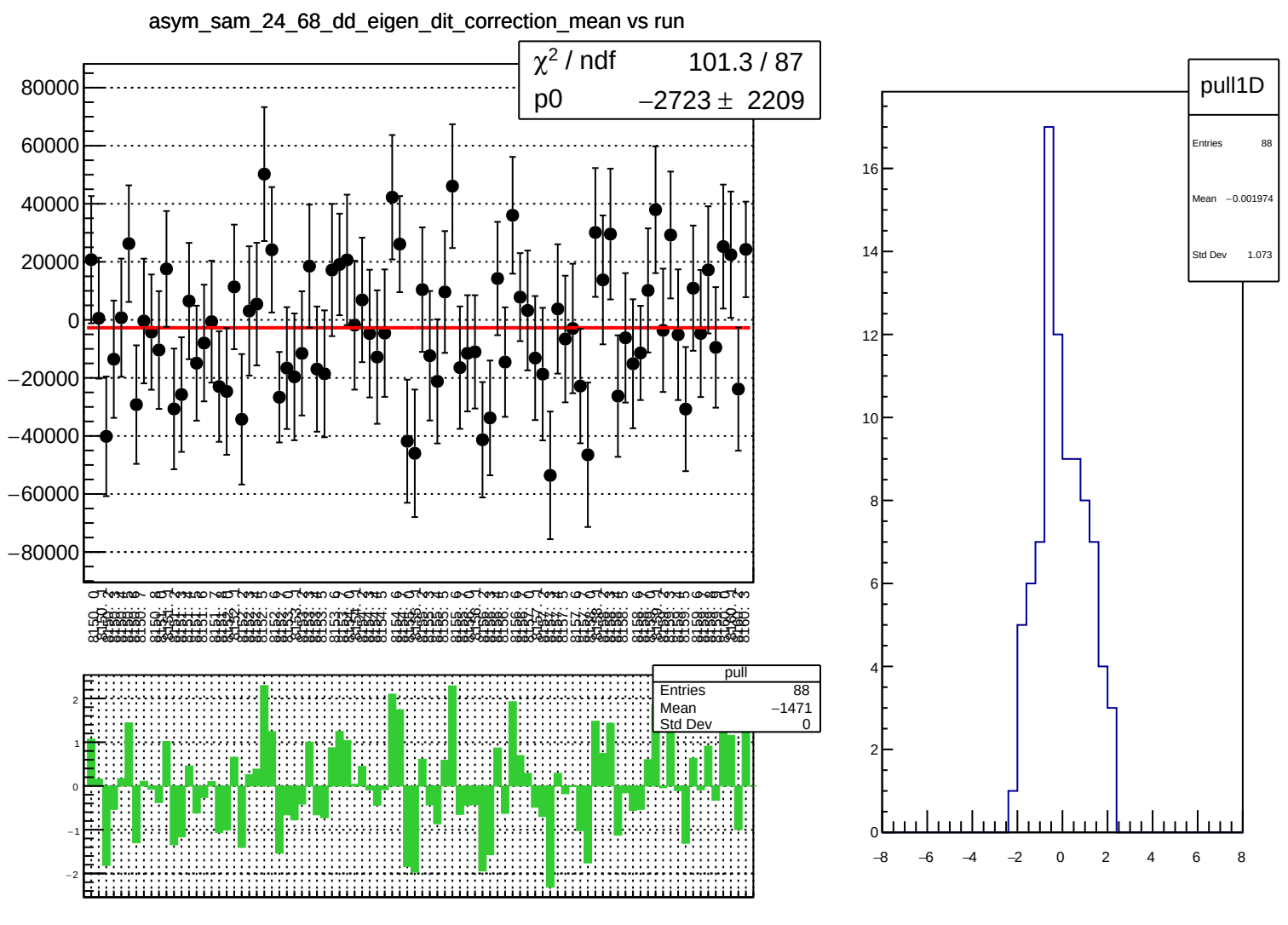

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 101.3 / 87
p0 −2723 ± 2209
pull
Entries 88
Mean −1471
Std Dev 0
pull1D
Entries 88
Mean −0.001974
Std Dev 1.073

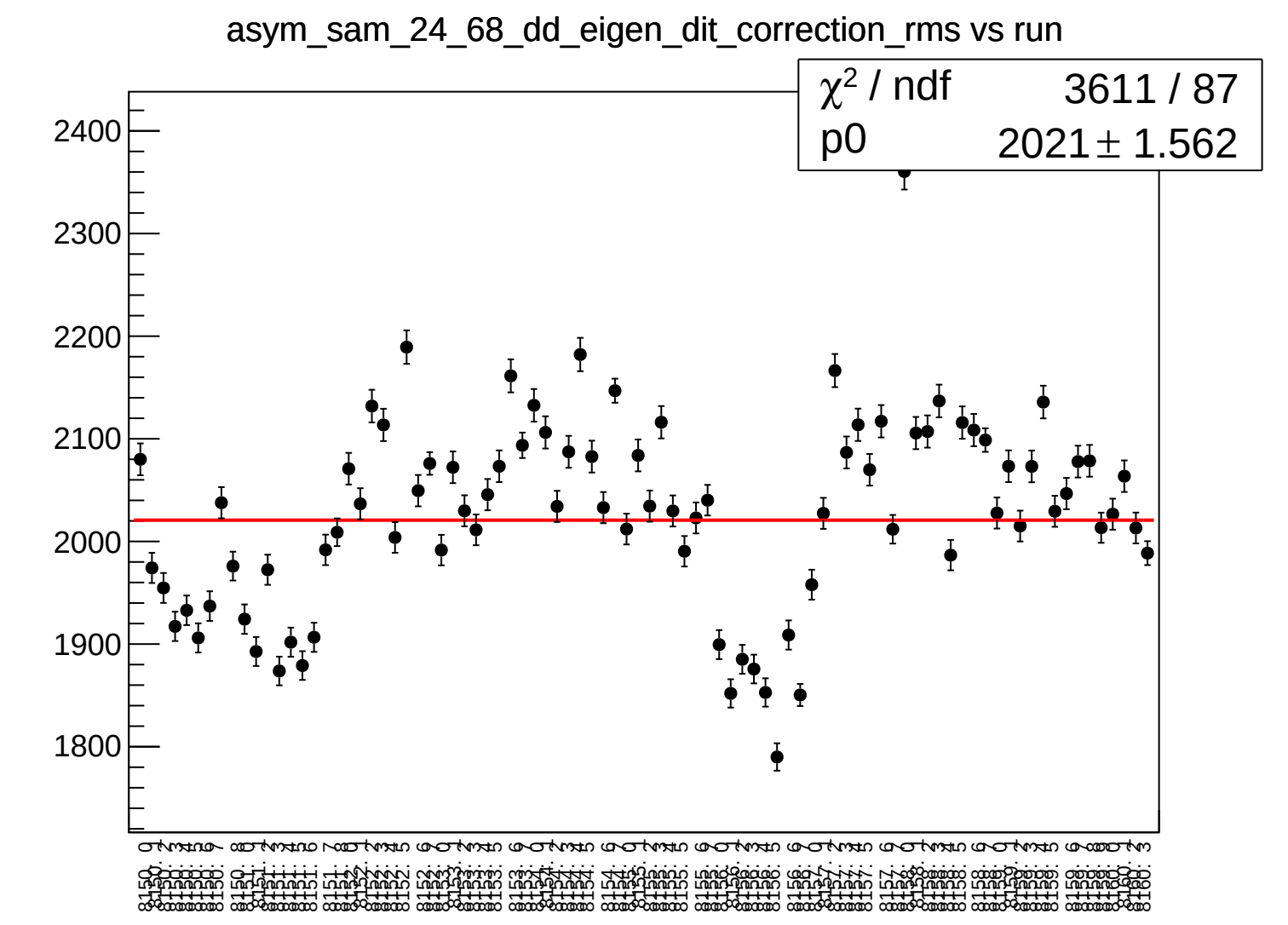

asym_sam_24_68_dd_dit_correction_rms vs run
χ^2 / ndf 3611 / 87
p0 2021 ± 1.562
2400
2300
2200
2100
2000
1900
1800

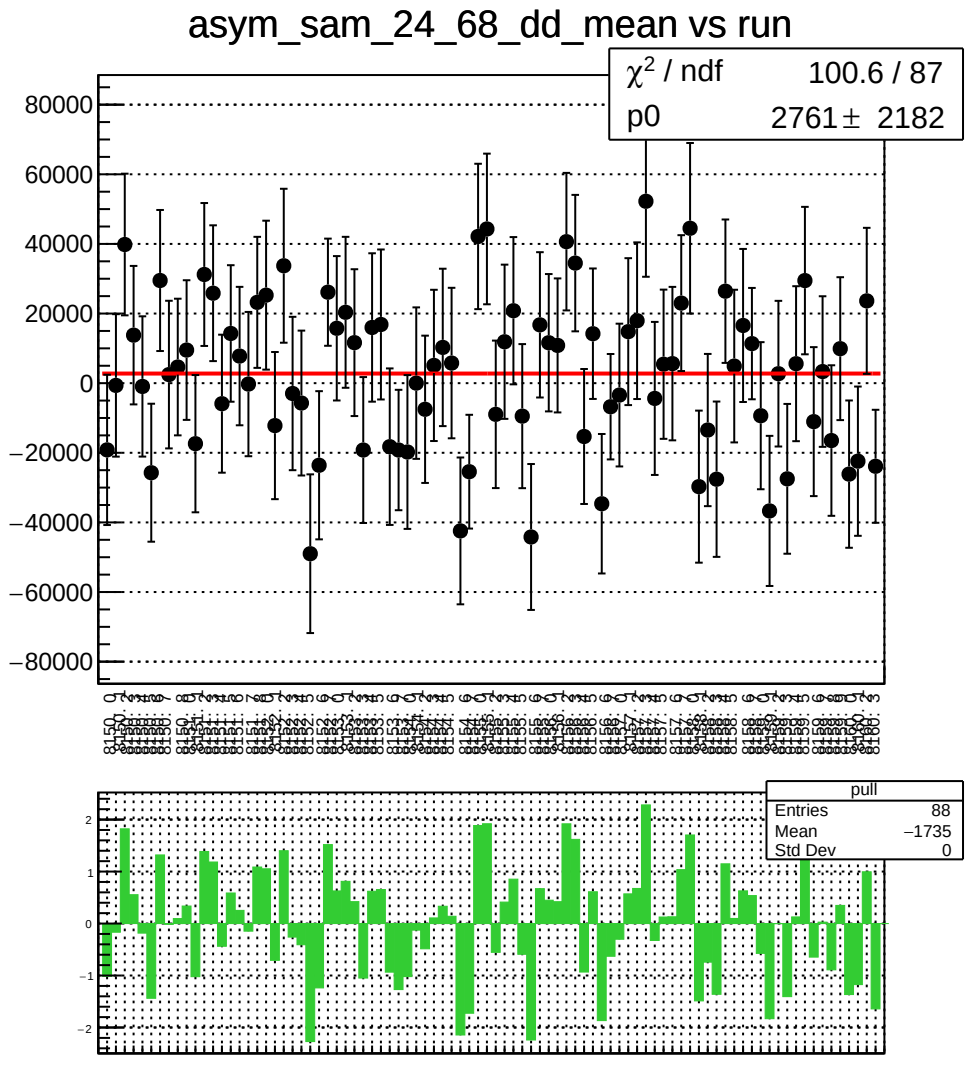

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 79.26 / 87
p0 51.34 ± 107.2
pull
Entries 88
Mean 6.32
Std Dev 0

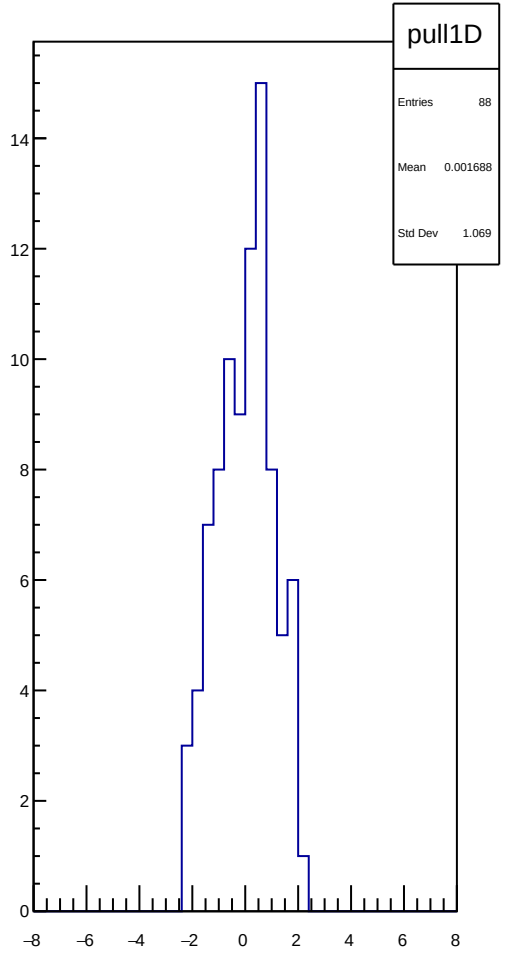

pull1D
Entries 88
Mean −0.01285
Std Dev 0.949

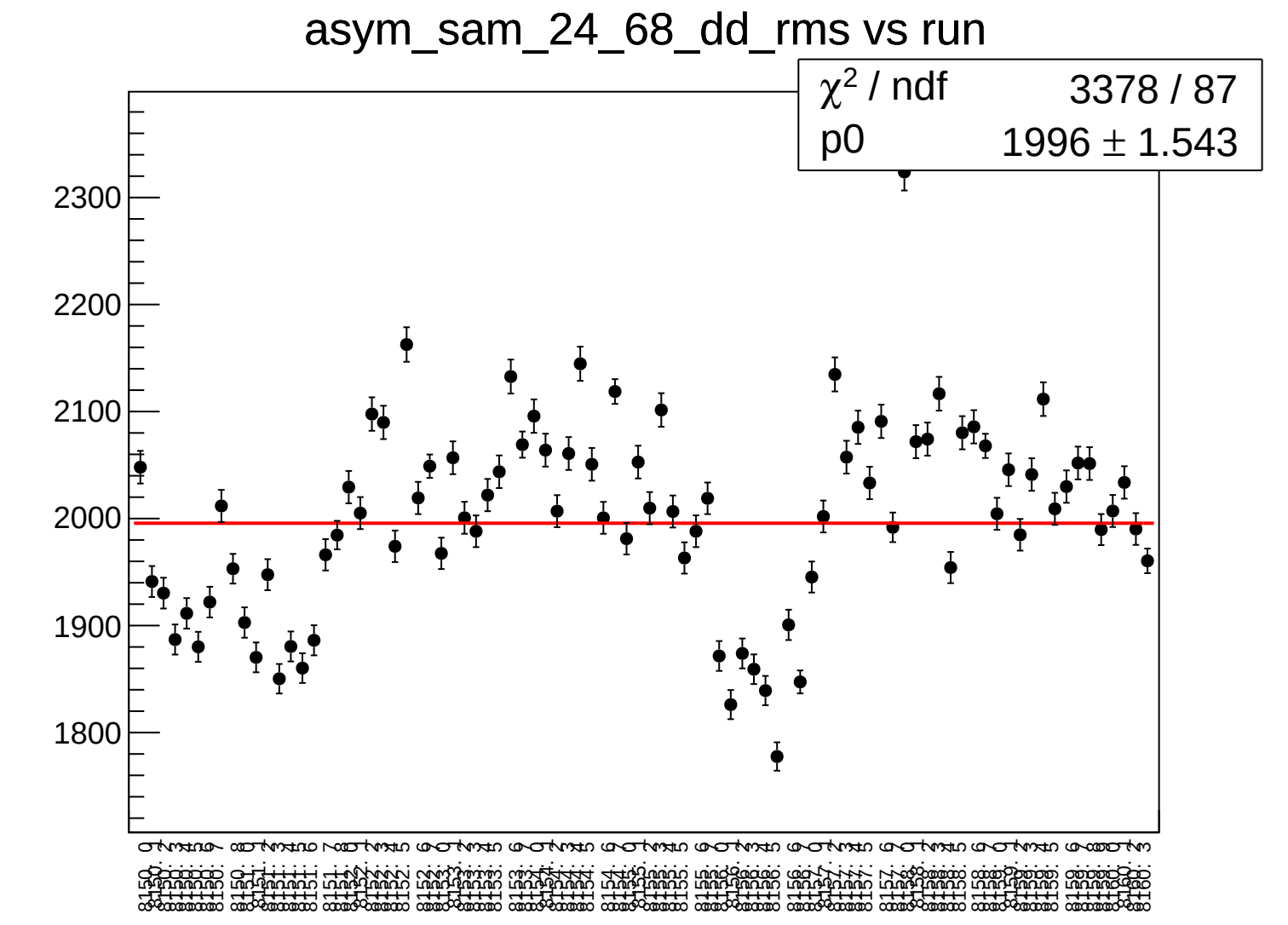

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 3158 / 87
p0 98.06 ± 0.07581
110
105
100
95
90

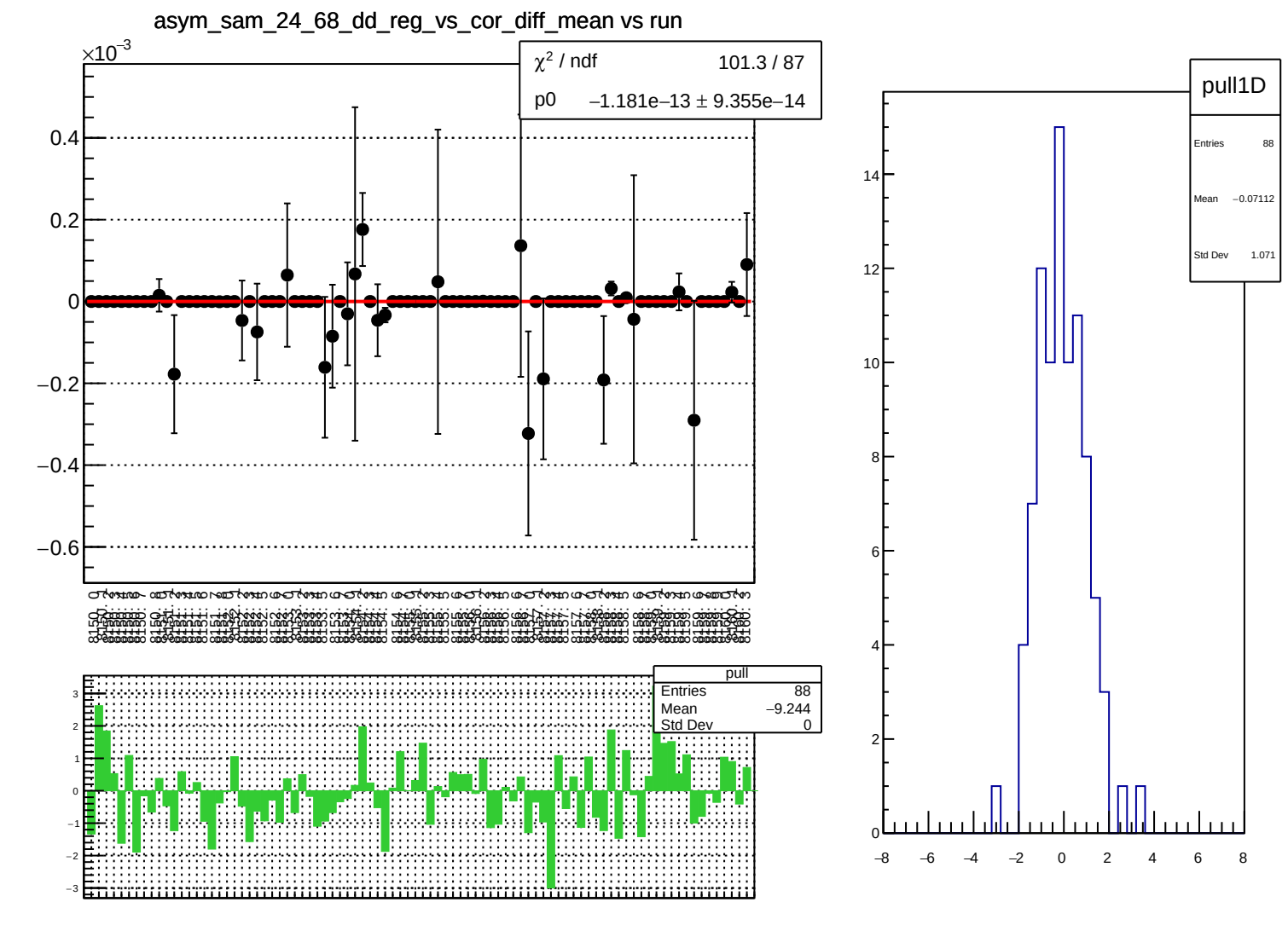

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.3 / 87
p0 −2723 ± 2209
pull
Entries 88
Mean −1471
Std Dev 0
pull1D
Entries 88
Mean −0.001974
Std Dev 1.073

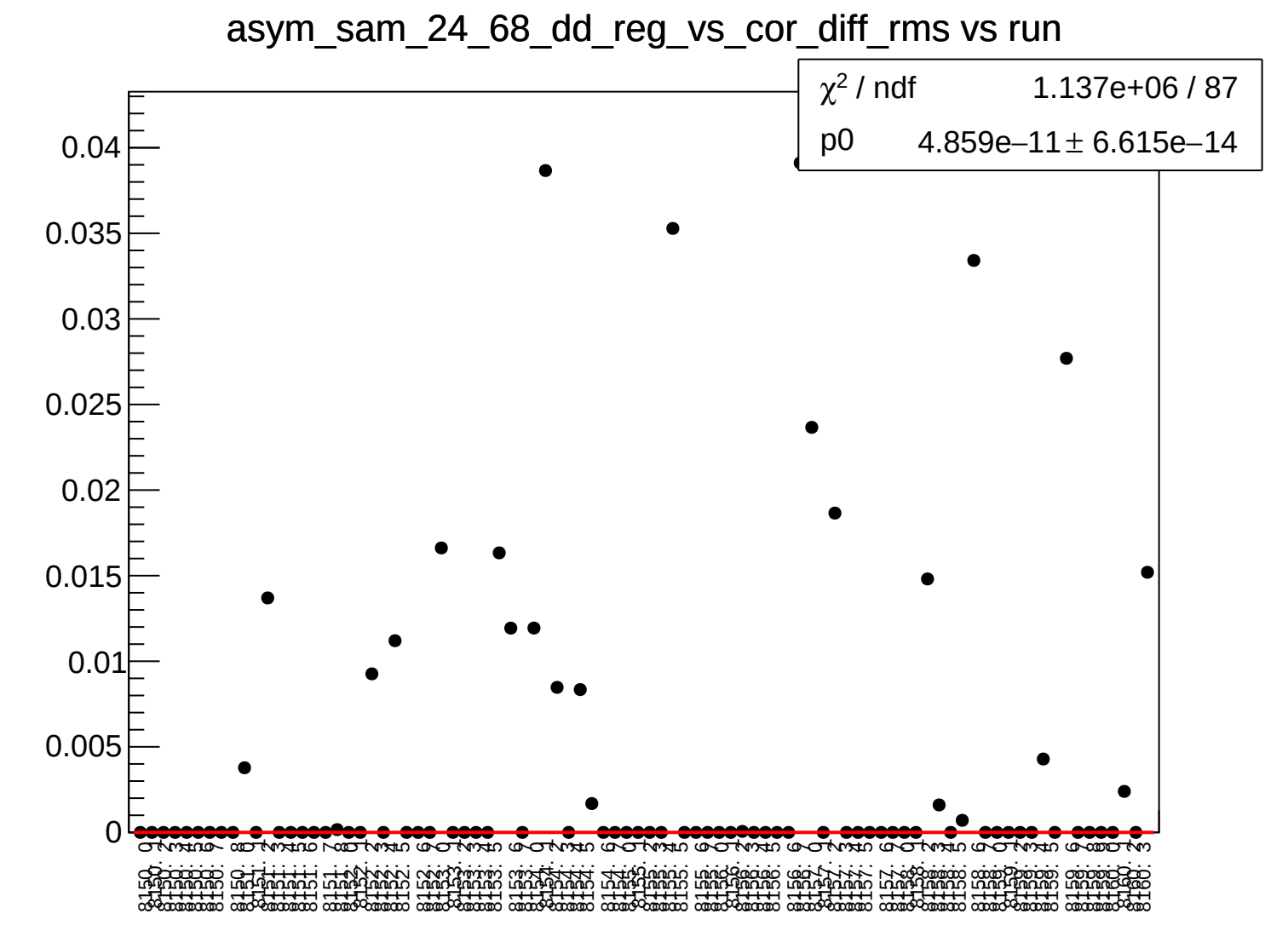

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 3611 / 87
p0 2021 ± 1.562
2400
2300
2200
2100
2000
1900
1800

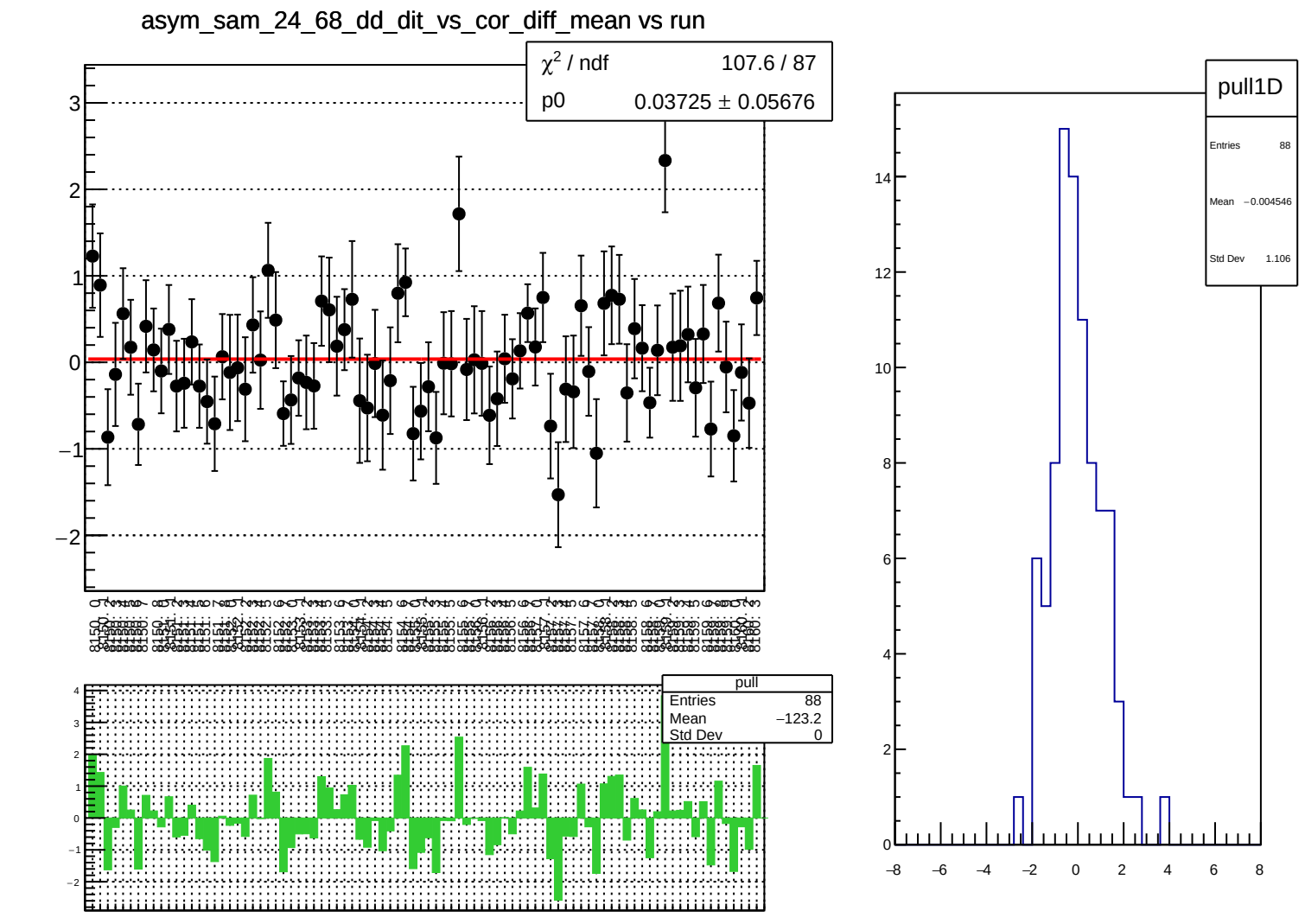

asym_sam_24_68_dd_mean vs run
χ² / ndf 100.6 / 87
p0 2761 ± 2182
pull
Entries 88
Mean −1735
Std Dev 0

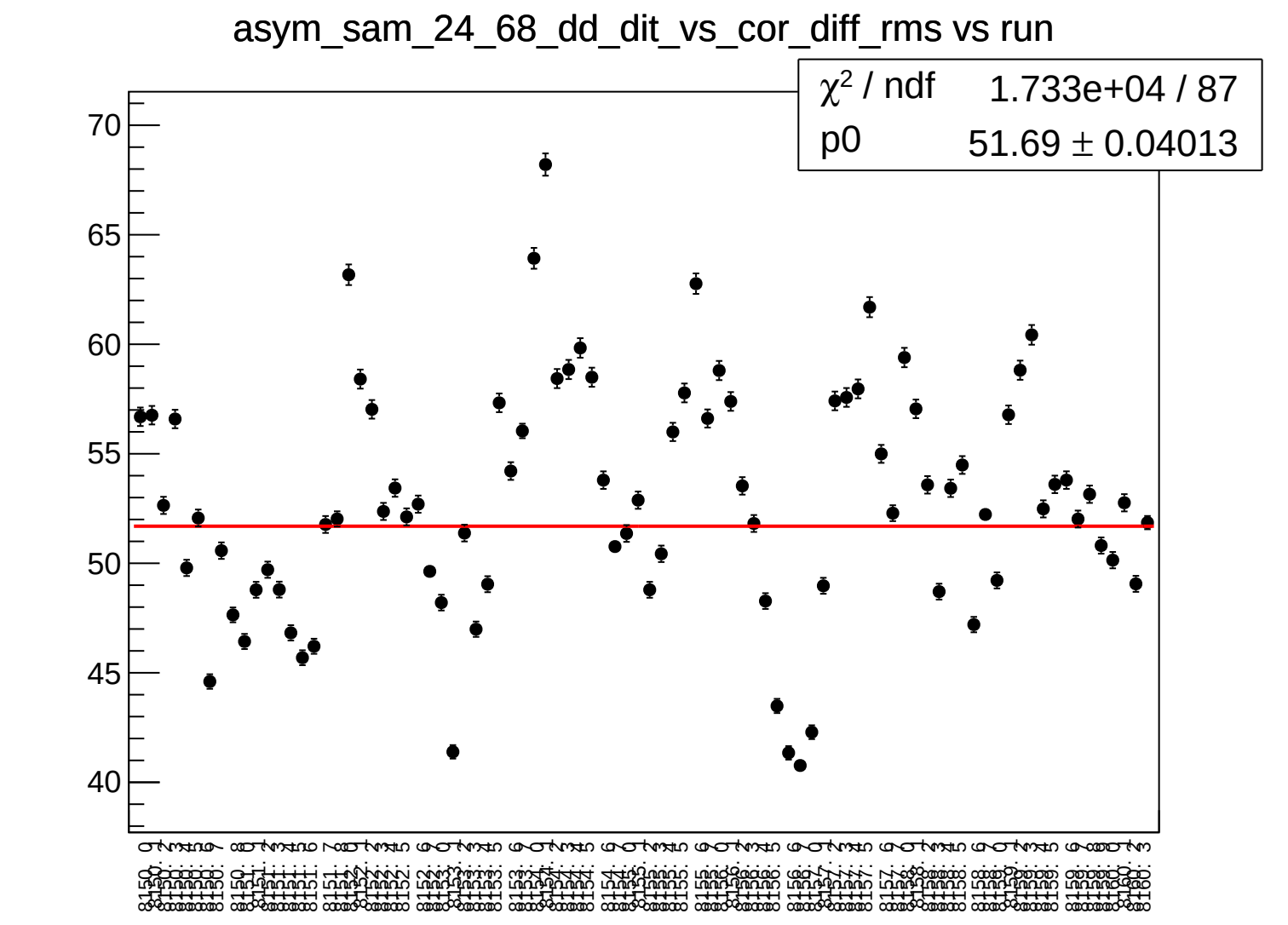

pull1D
Entries 88
Mean 0.001688
Std Dev 1.069

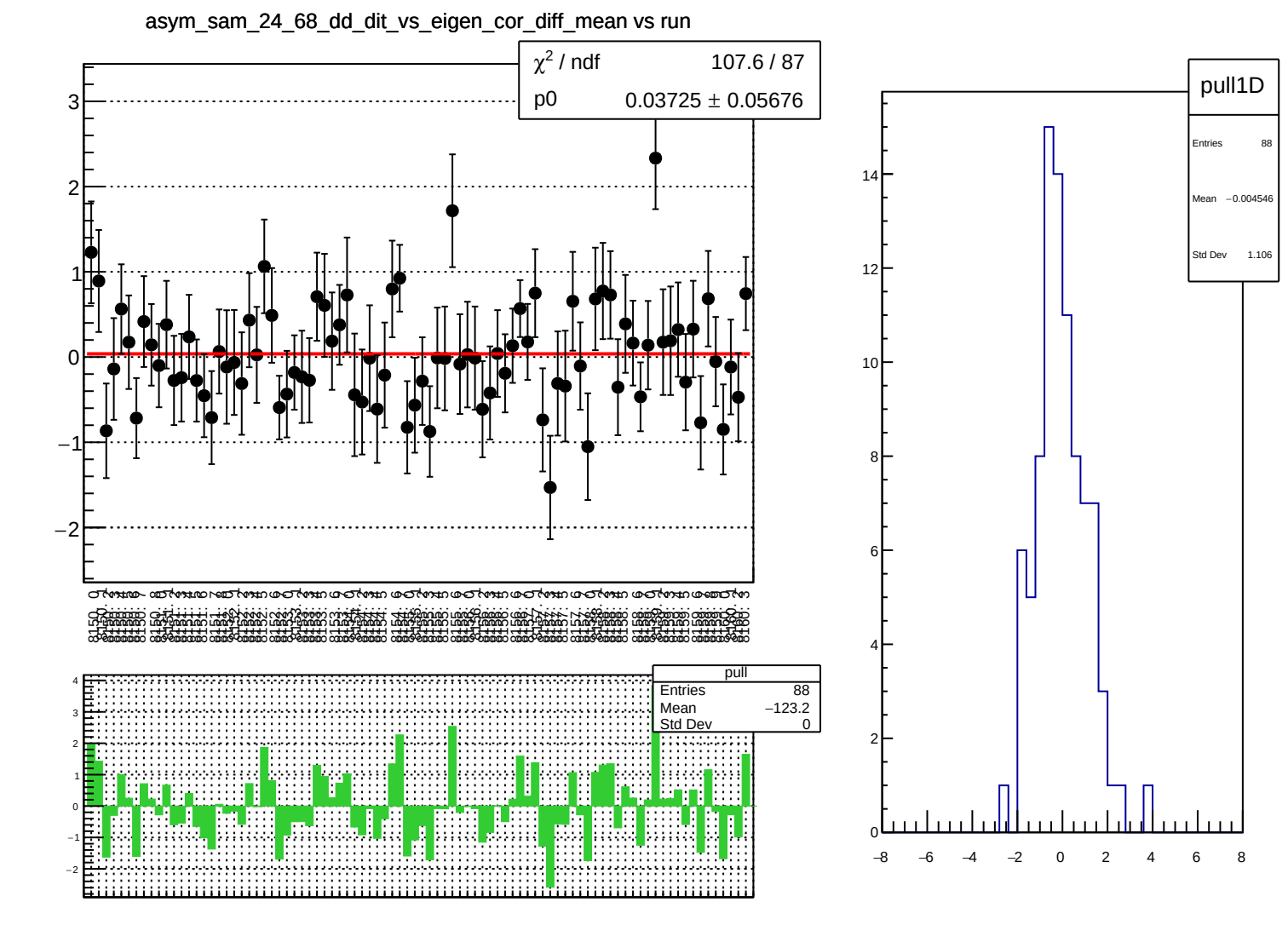

asym_sam_24_68_dd_rms vs run
χ^2 / ndf 3378 / 87
p0 1996 ± 1.543
2300
2200
2100
2000
1900
1800

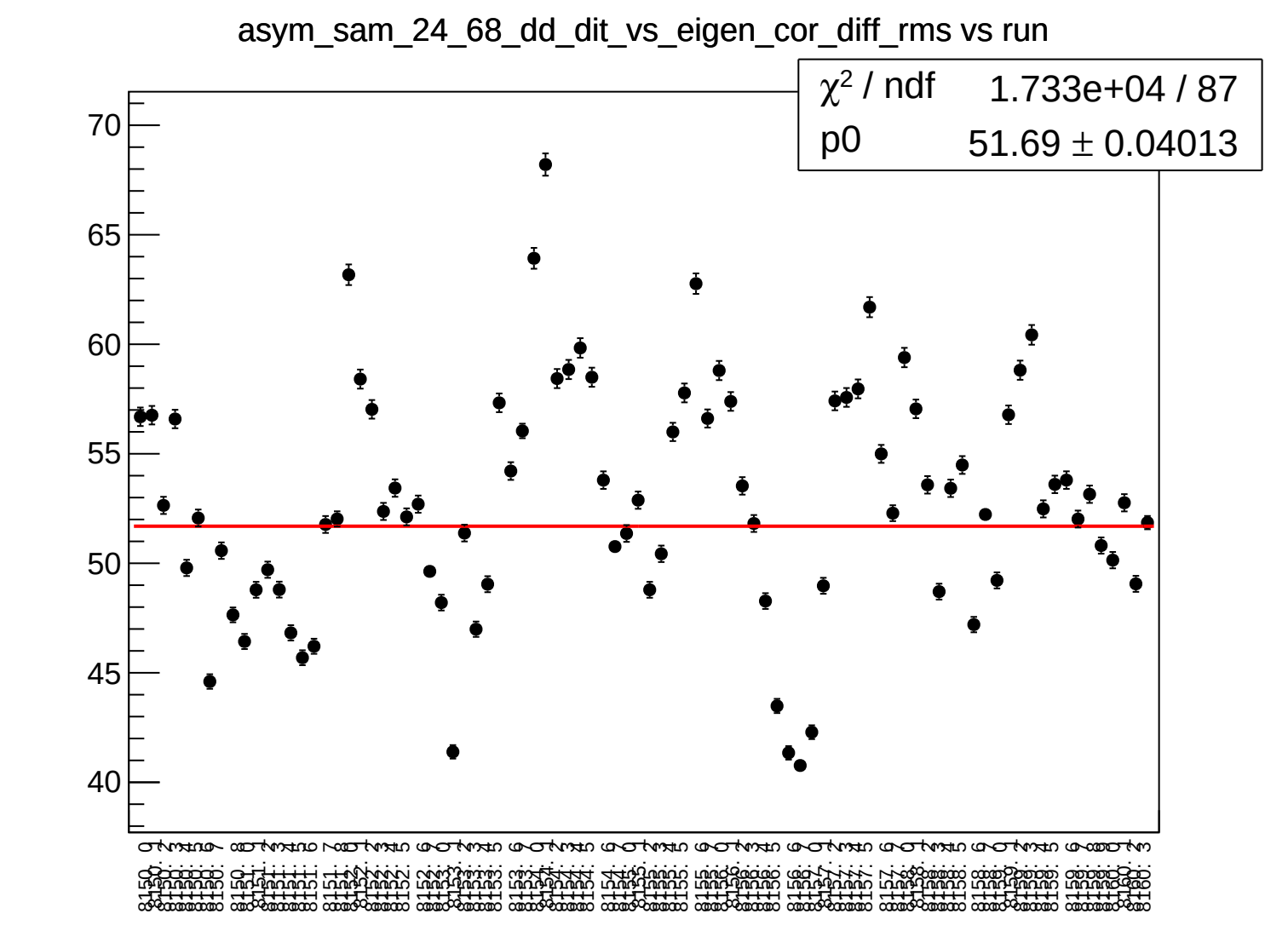

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 101.3 / 87
p0 −1.181e−13 ± 9.355e−14
pull
Entries 88
Mean −9.244
Std Dev 0
pull1D
Entries 88
Mean −0.07112
Std Dev 1.071

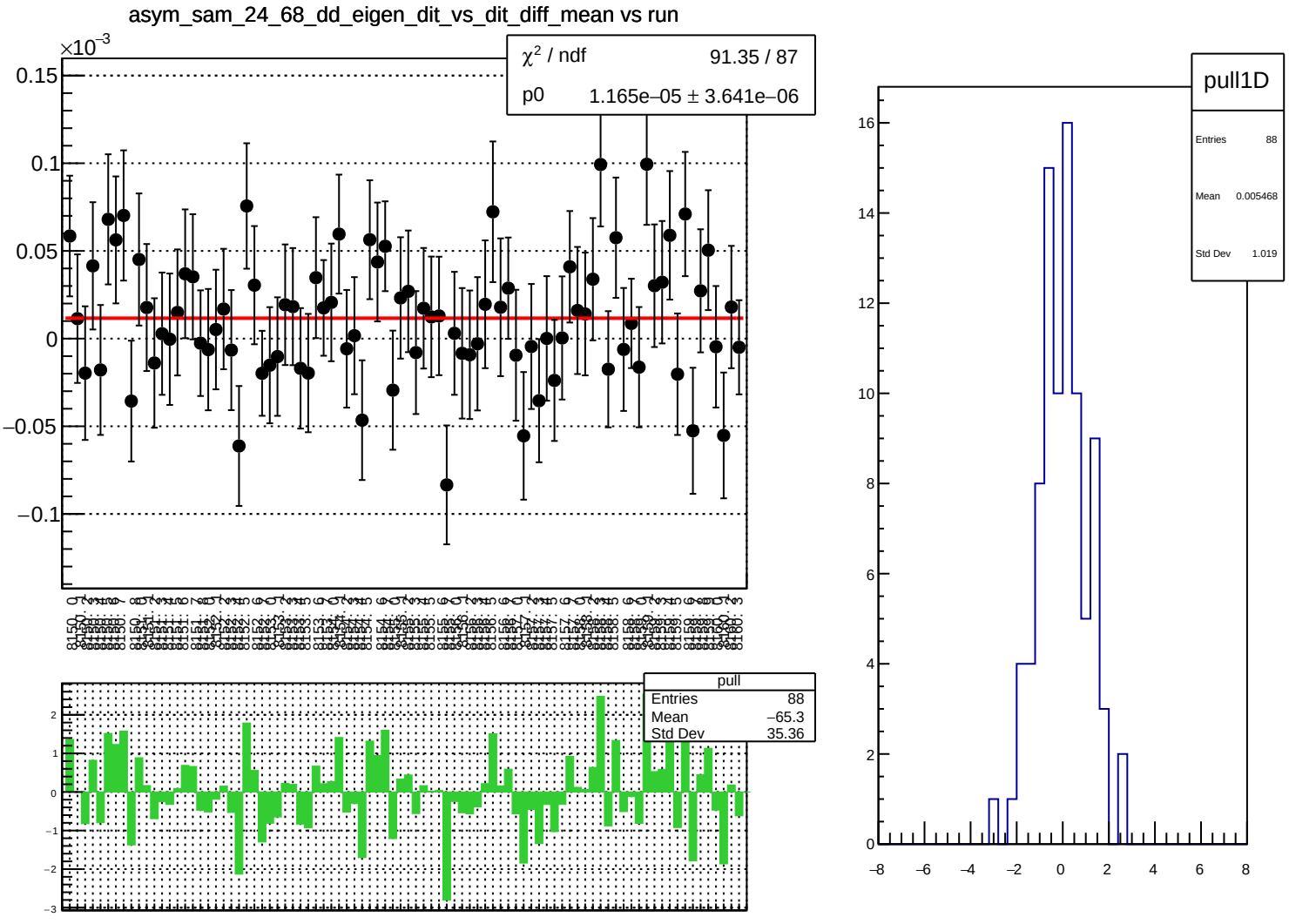

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.137e+06 / 87
p0 4.859e−11 ± 6.615e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

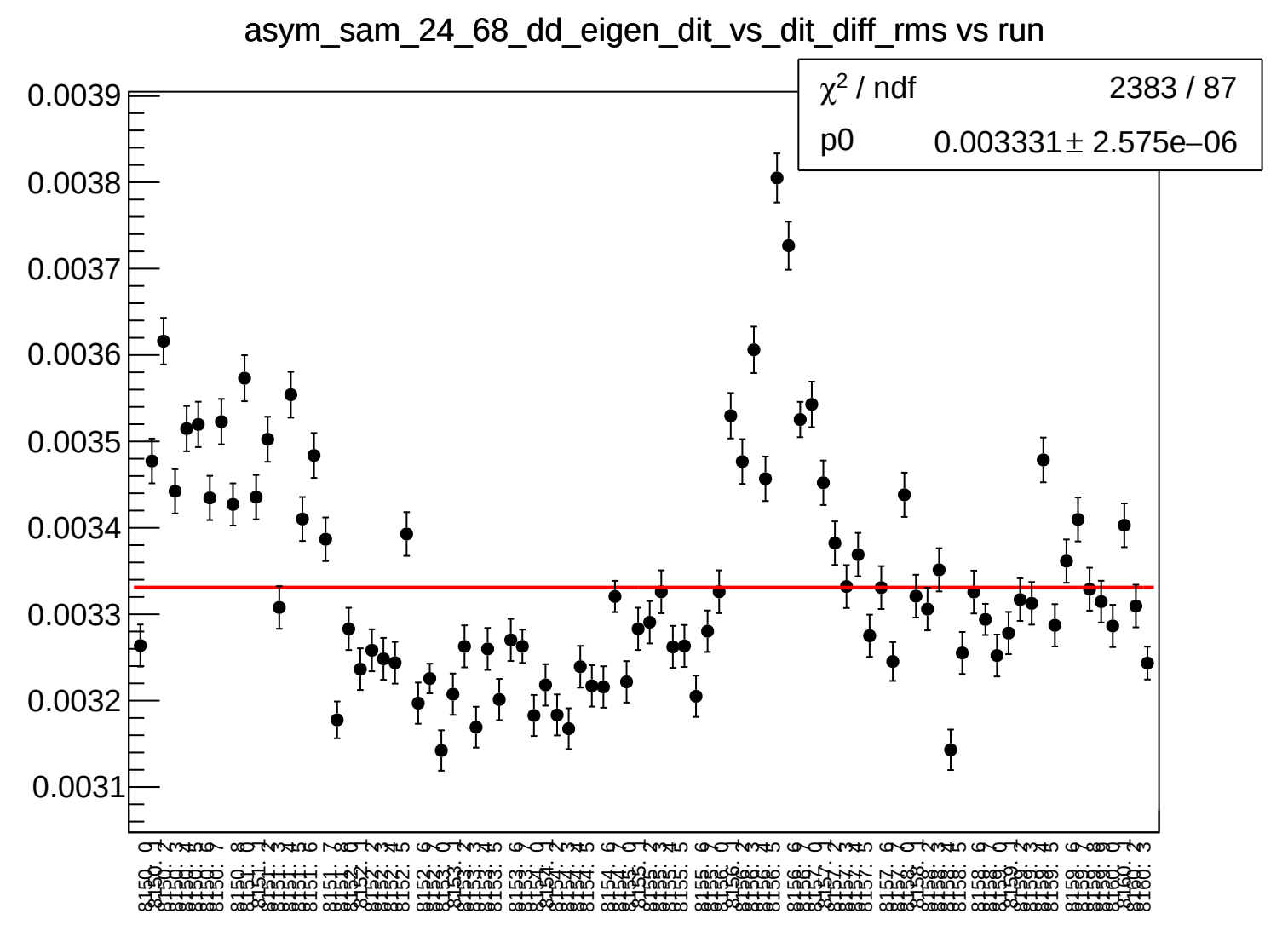

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.6 / 87
p0 0.03725 ± 0.05676
pull
Entries 88
Mean −123.2
Std Dev 0
pull1D
Entries 88
Mean −0.004546
Std Dev 1.106

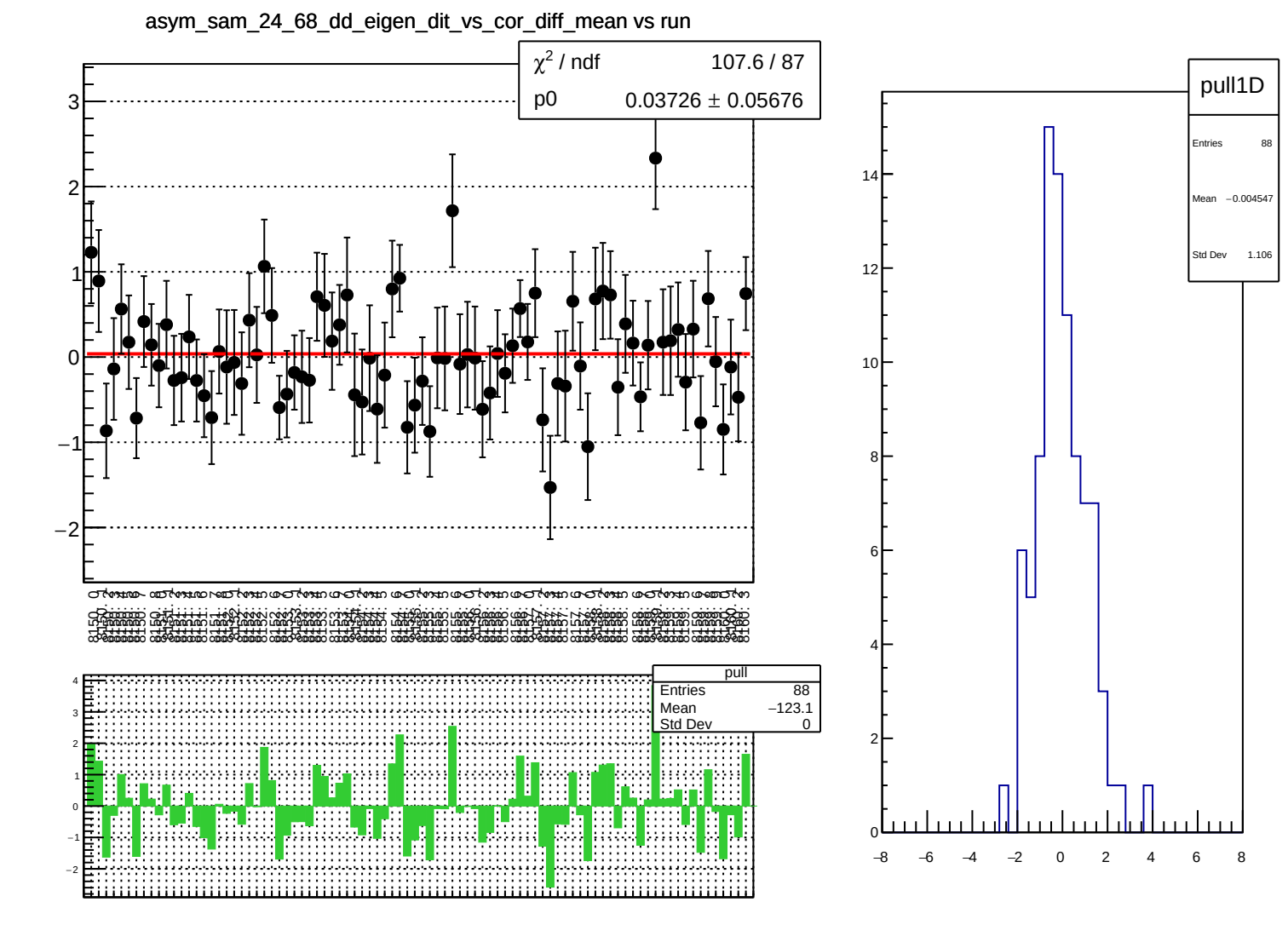

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.733e+04 / 87
p0 51.69 ± 0.04013
70
65
60
55
50
45
40

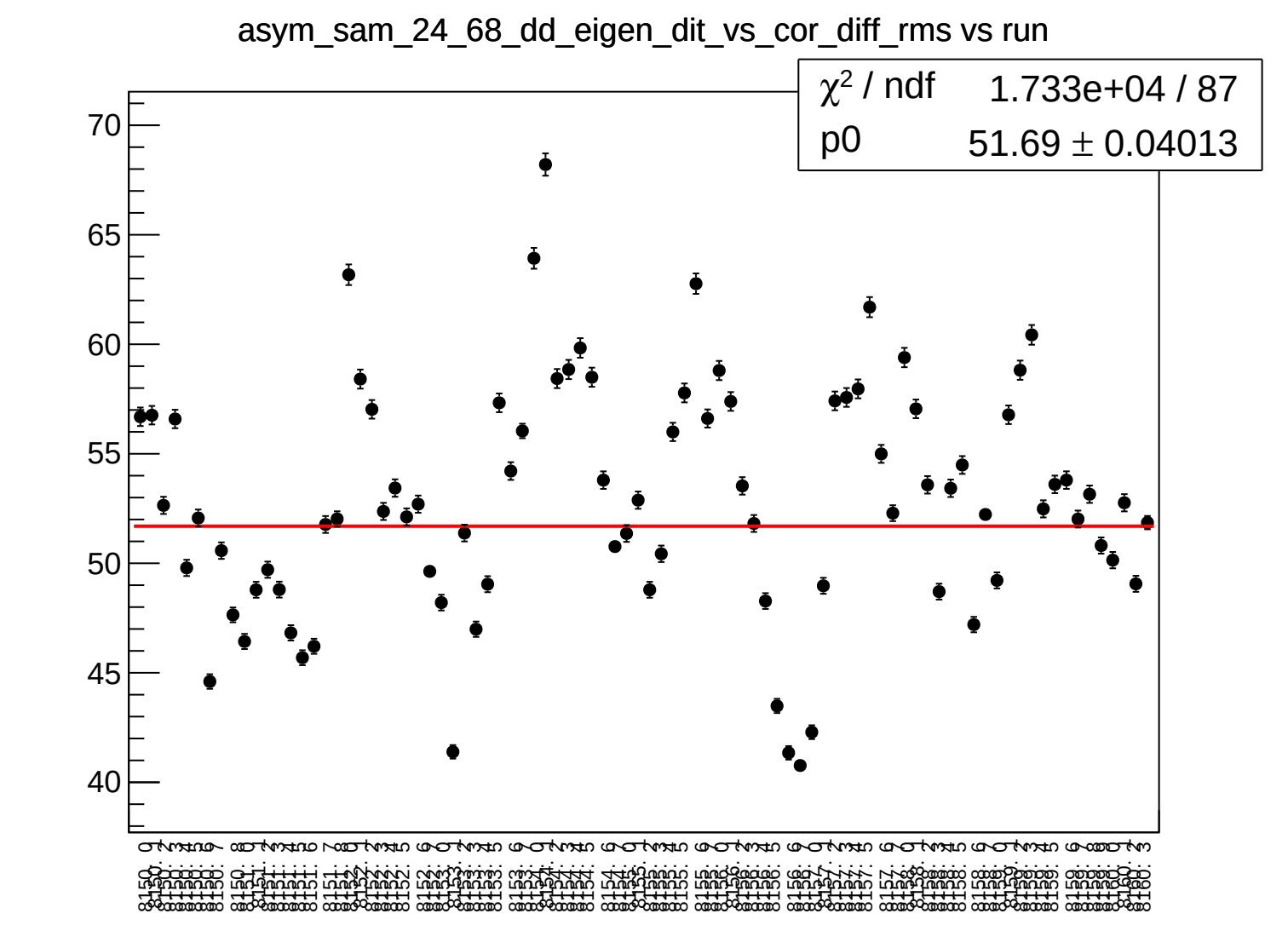

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.6 / 87
p0 0.03725 ± 0.05676
pull
Entries 88
Mean −123.2
Std Dev 0
pull1D
Entries 88
Mean −0.004546
Std Dev 1.106


asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.733e+04 / 87
p0 51.69 ± 0.04013
70
65
60
55
50
45
40

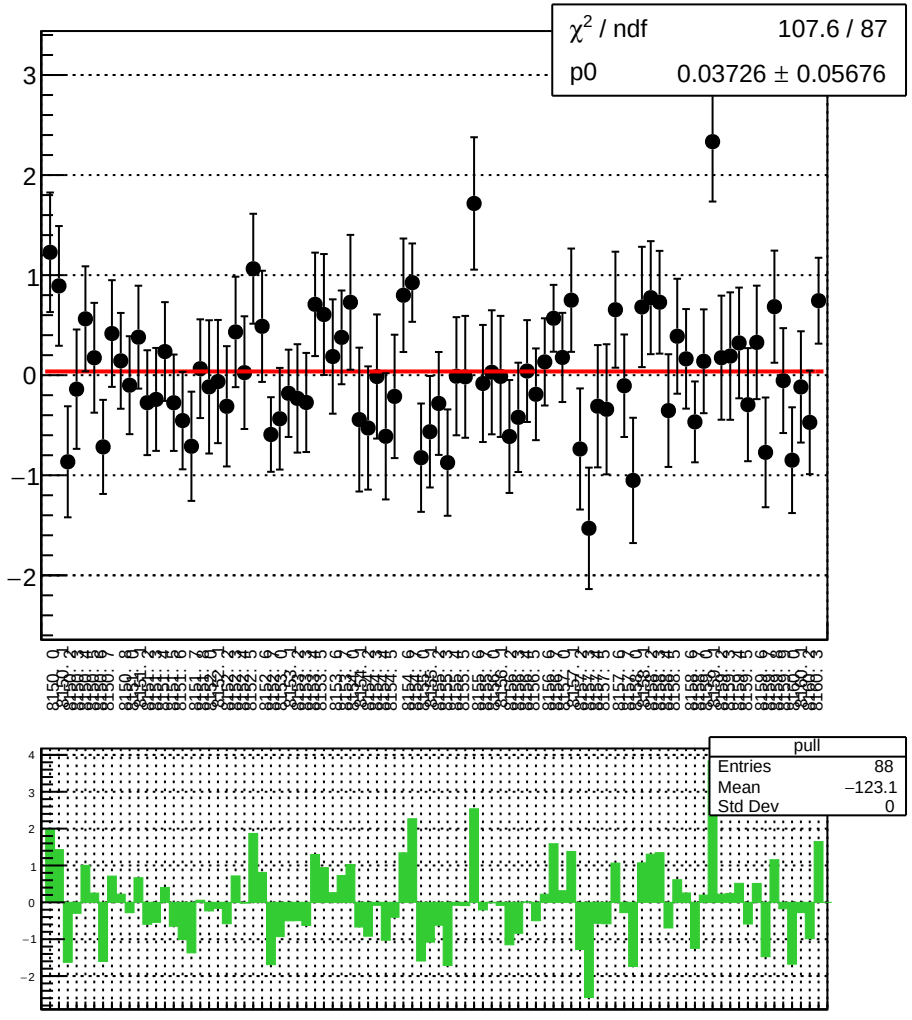

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.35 / 87
p0 1.165e−05 ± 3.641e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −65.3
Std Dev 35.36
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.005468
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

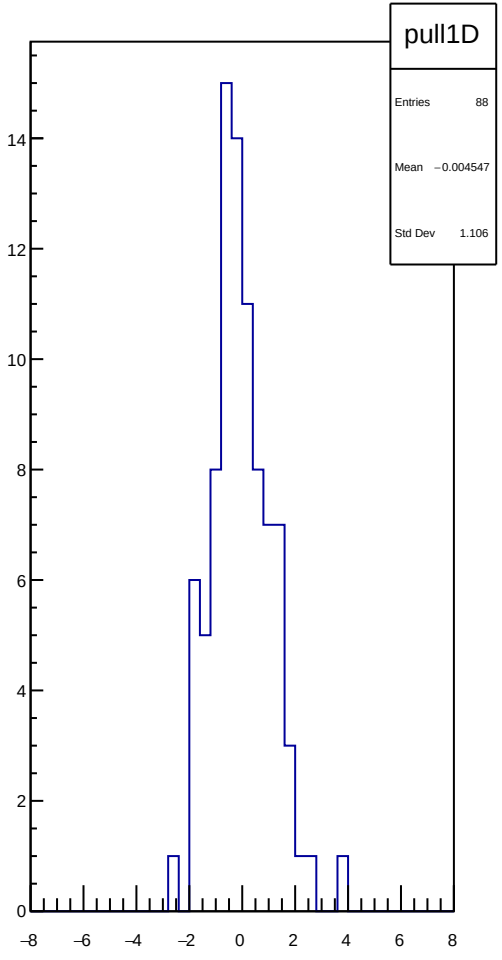

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2383 / 87
p0 0.003331 ± 2.575e−06
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031

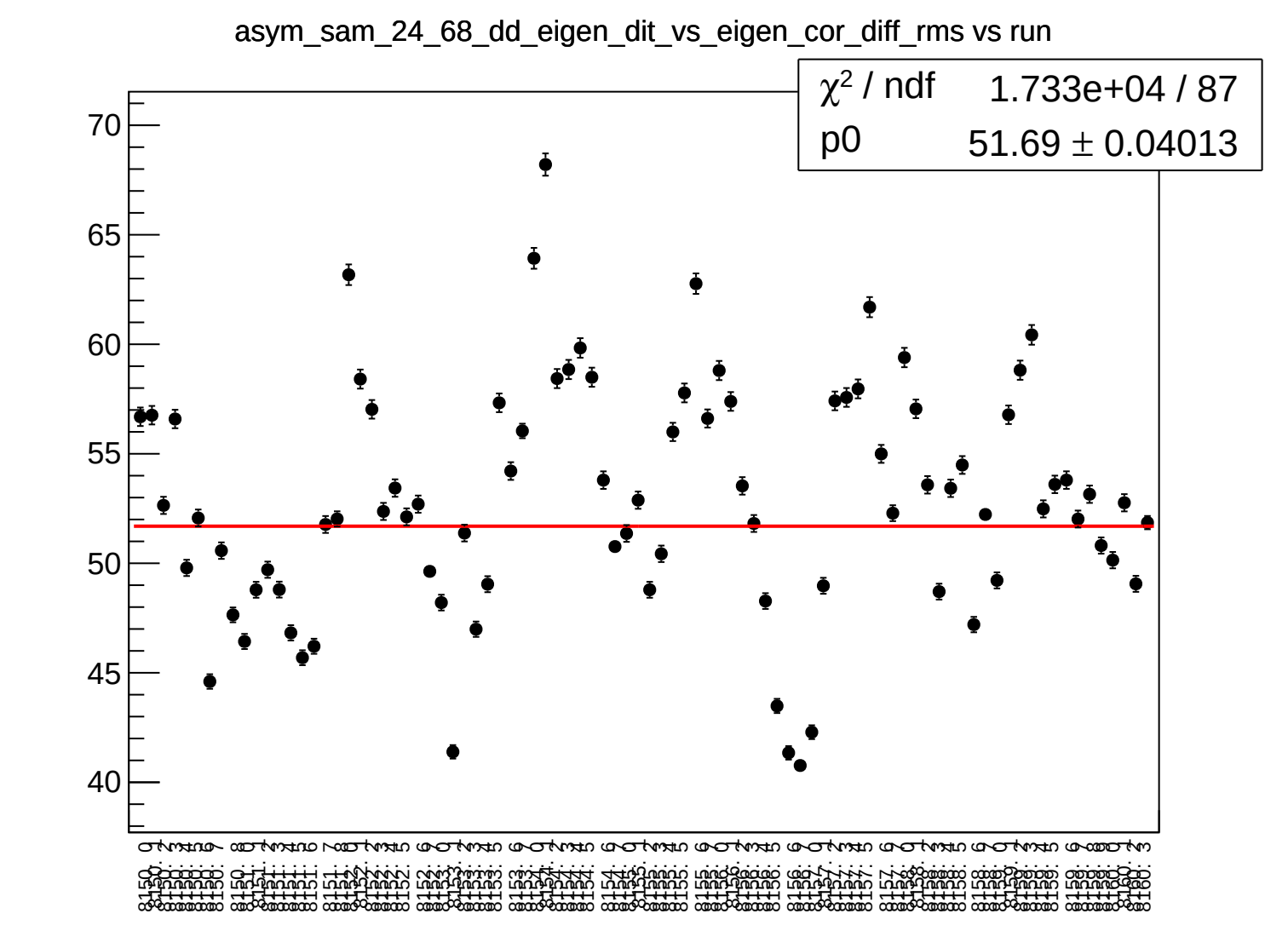

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.6 / 87
p0 0.03726 ± 0.05676
pull
Entries 88
Mean −123.1
Std Dev 0
pull1D
Entries 88
Mean −0.004547
Std Dev 1.106

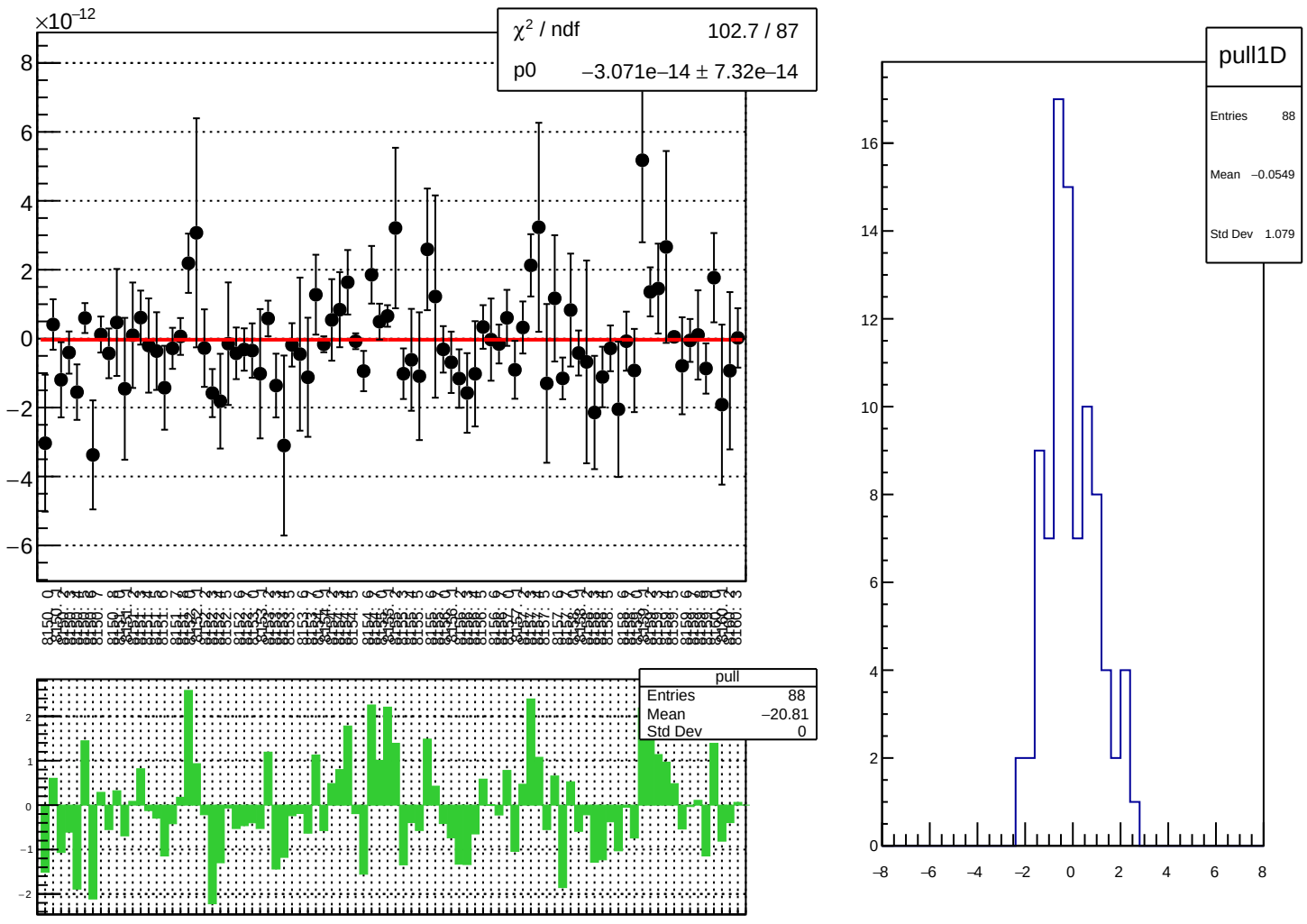

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.733e+04 / 87
p0 51.69 ± 0.04013
70
65
60
55
50
45
40

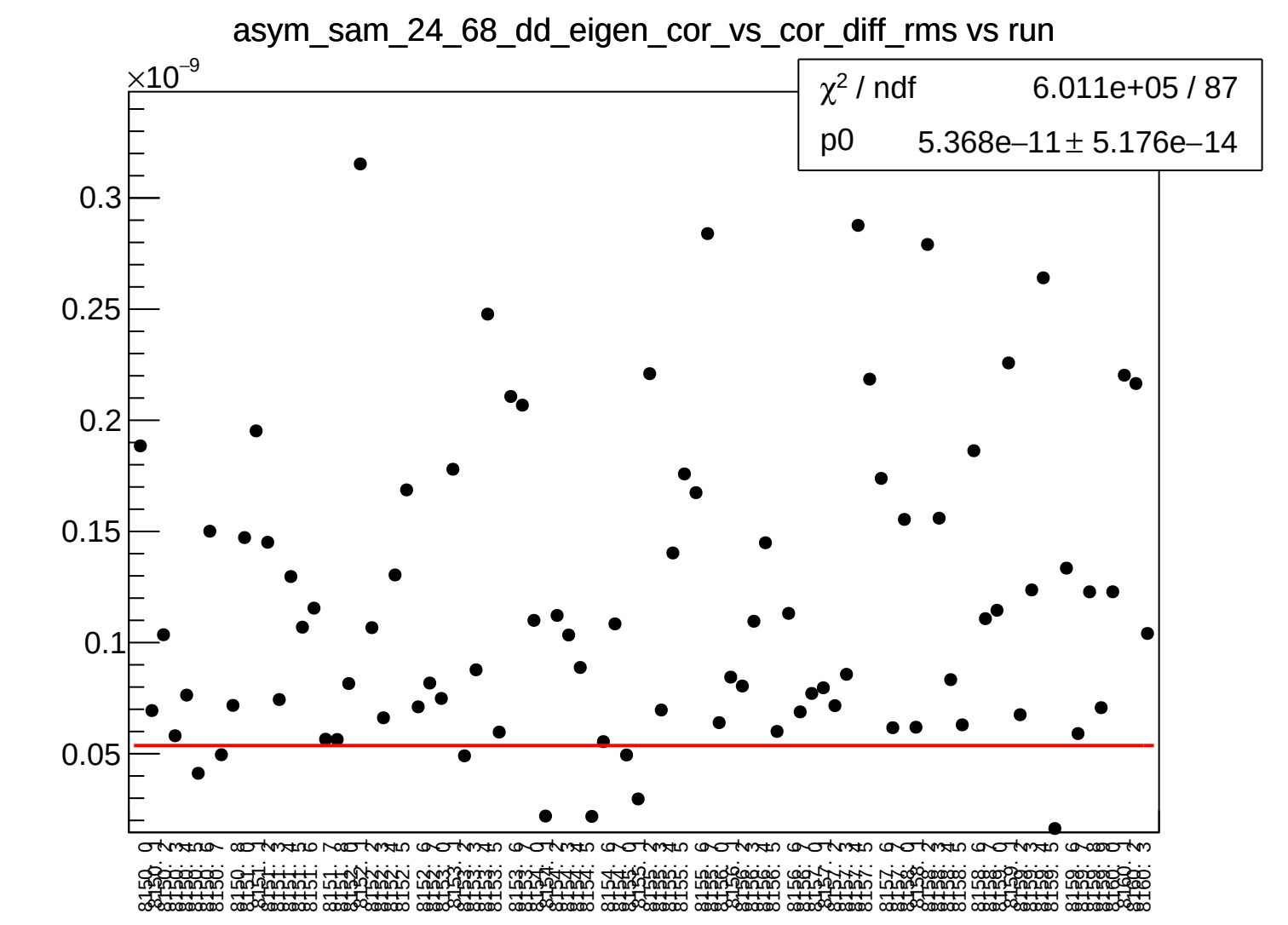
asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

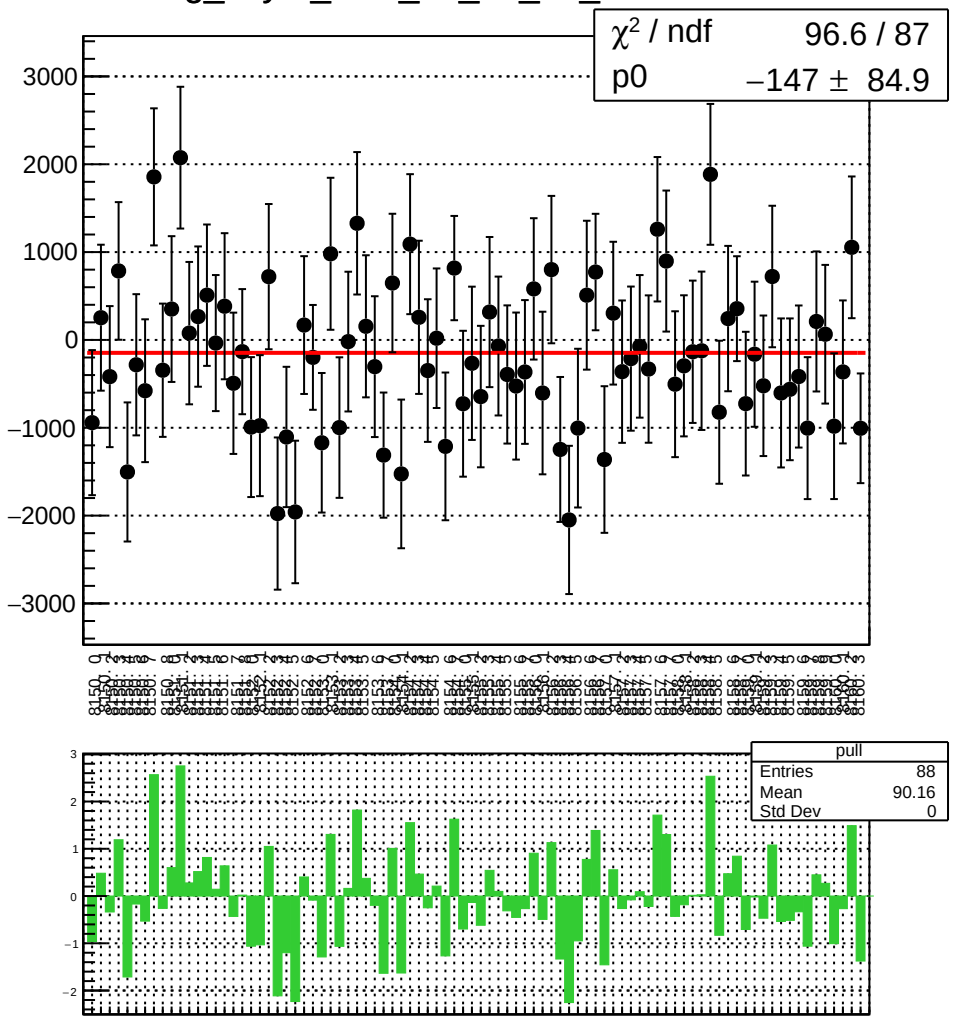


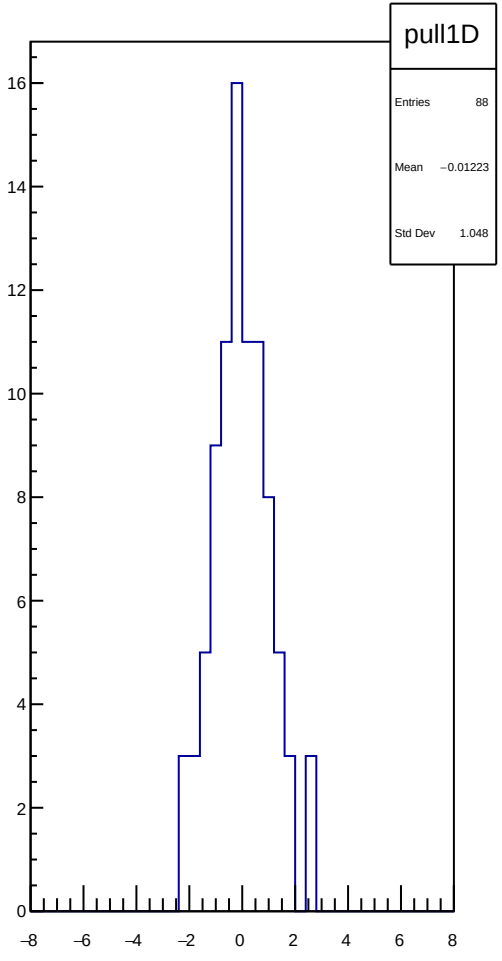


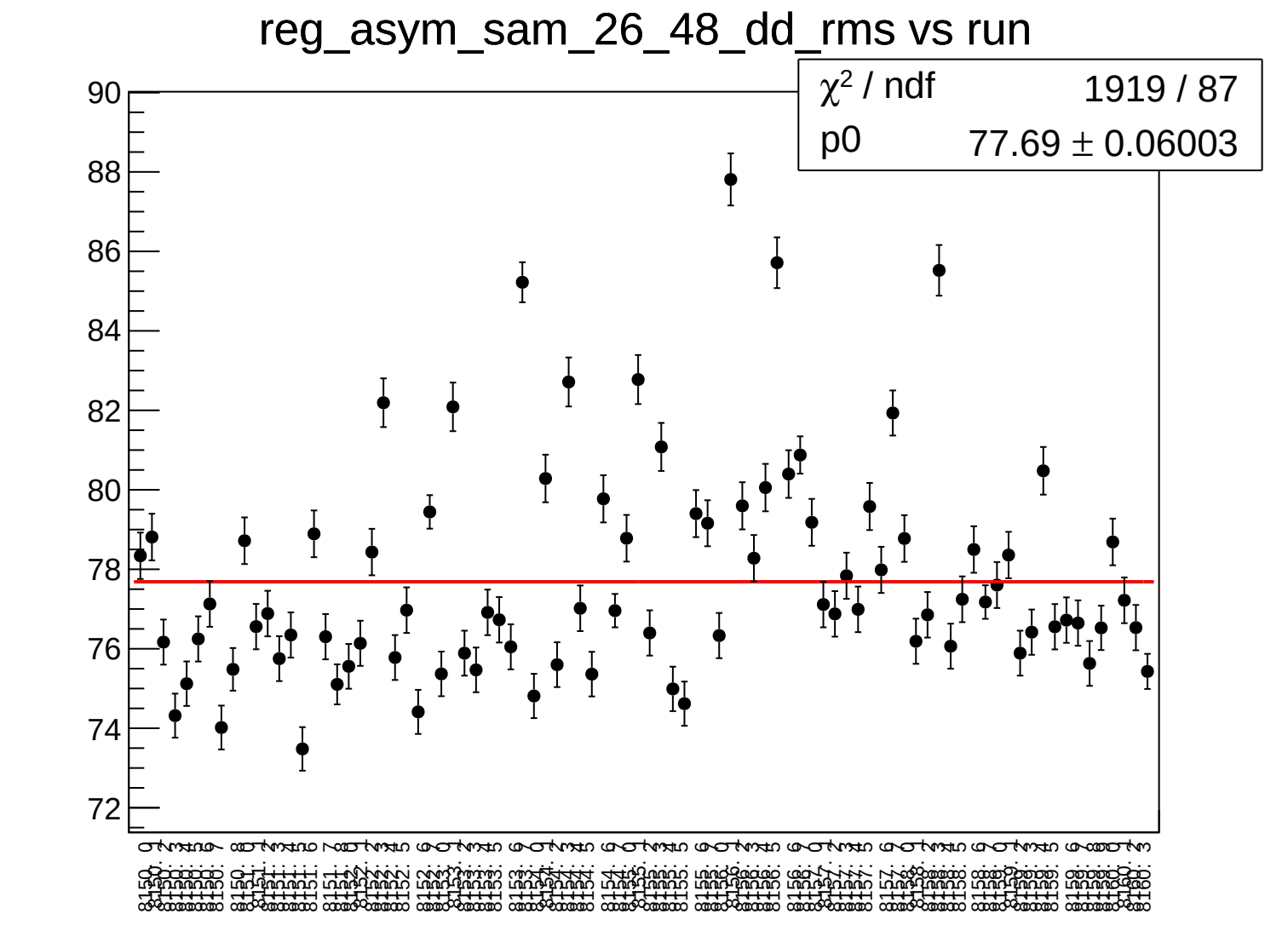

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.733e+04 / 87
p0 51.69 ± 0.04013
70
65
60
55
50
45
40

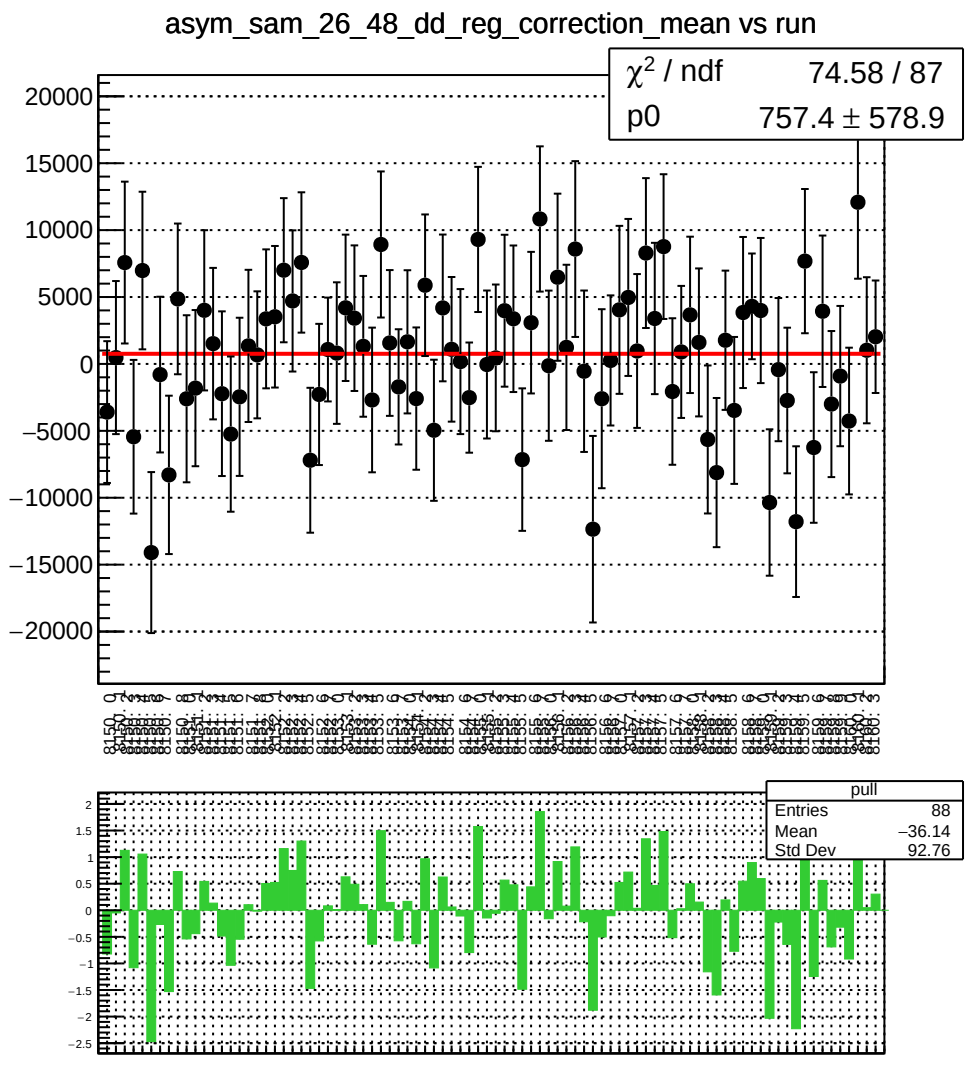

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.7 / 87
p0 −3.071e−14 ± 7.32e−14
pull
Entries 88
Mean −20.81
Std Dev 0
pull1D
Entries 88
Mean −0.0549
Std Dev 1.079

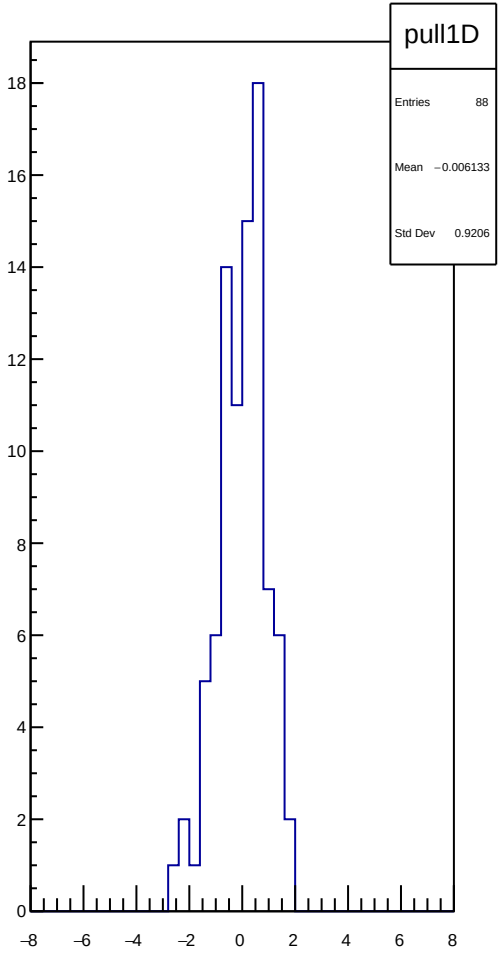

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.011e+05 / 87
p0 5.368e−11 ± 5.176e−14
0.3
0.25
0.2
0.15
0.1
0.05

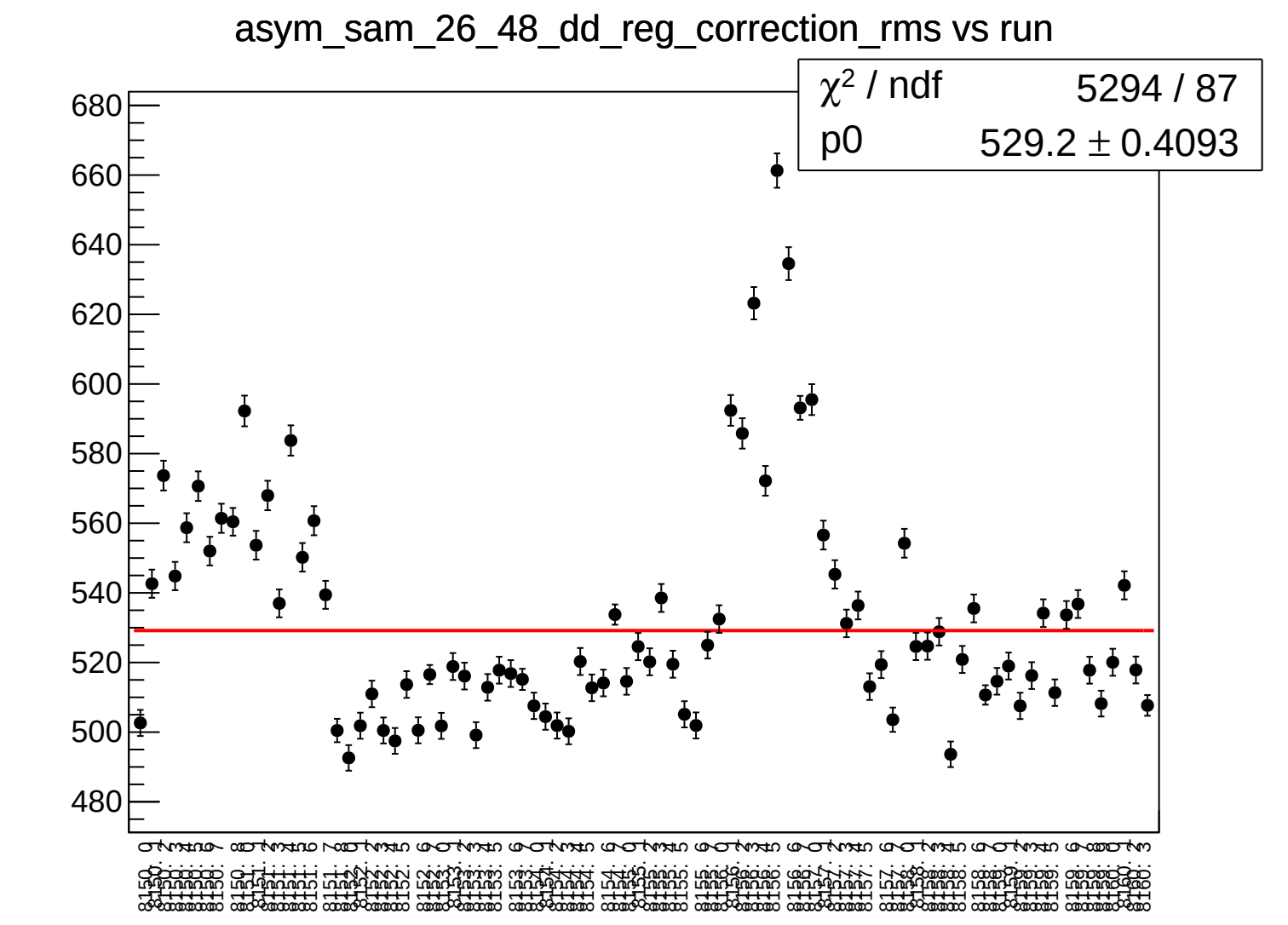

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 96.6 / 87
p0 −147 ± 84.9
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 90.16
Std Dev 0
3
2
1
0
−1
−2

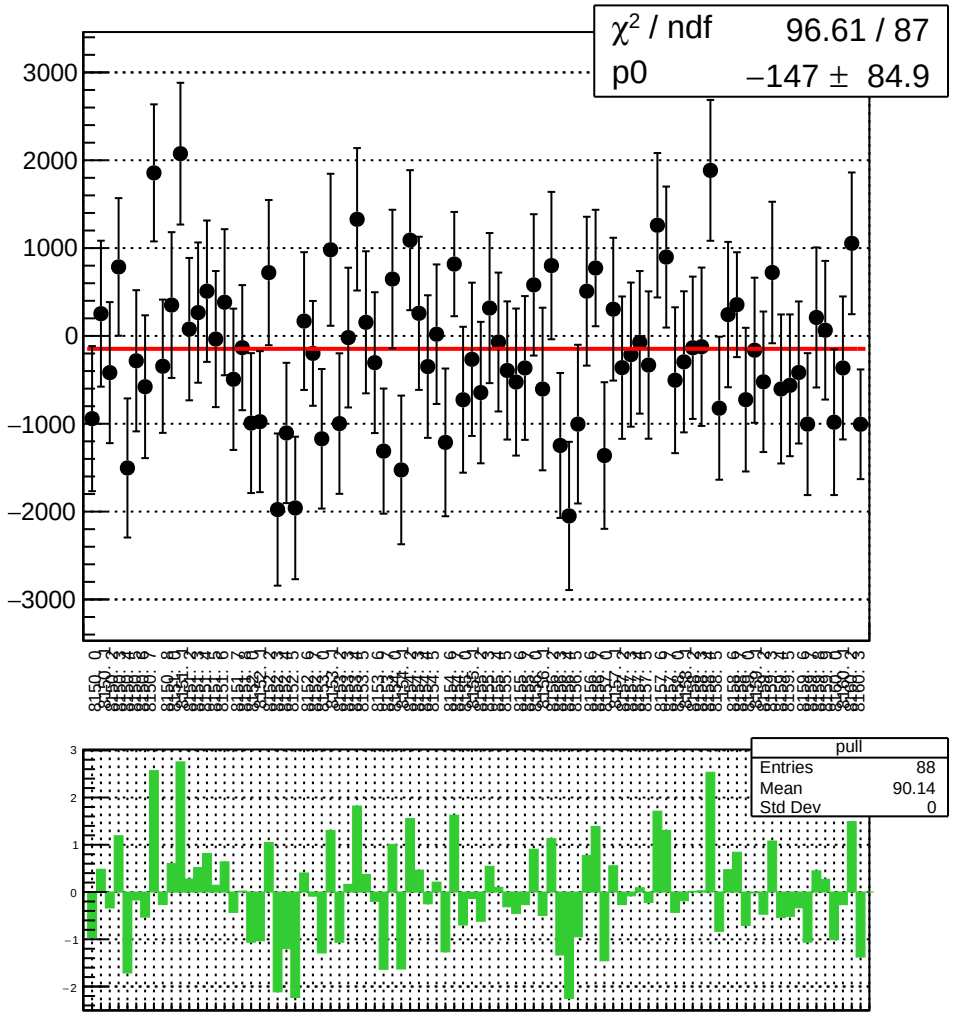

pull1D
Entries 88
Mean −0.01223
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

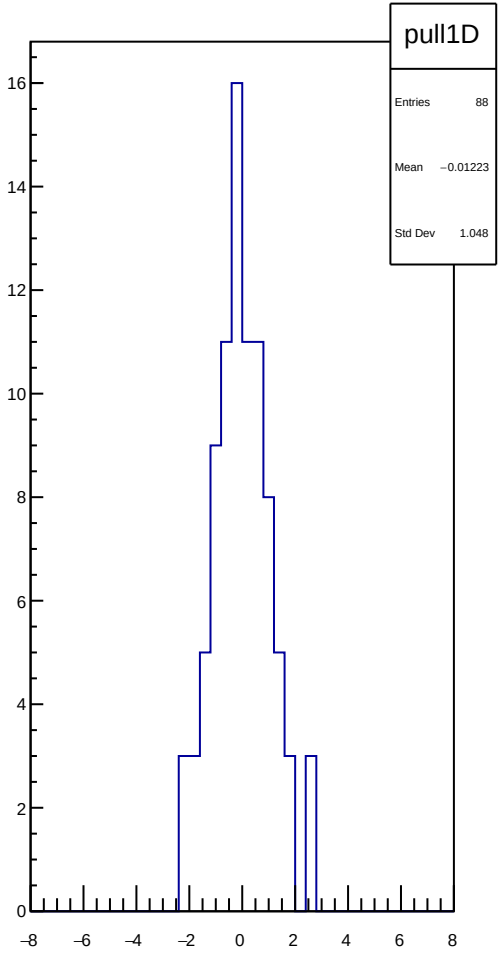

reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1919 / 87
p0 77.69 ± 0.06003
90
88
86
84
82
80
78
76
74
72

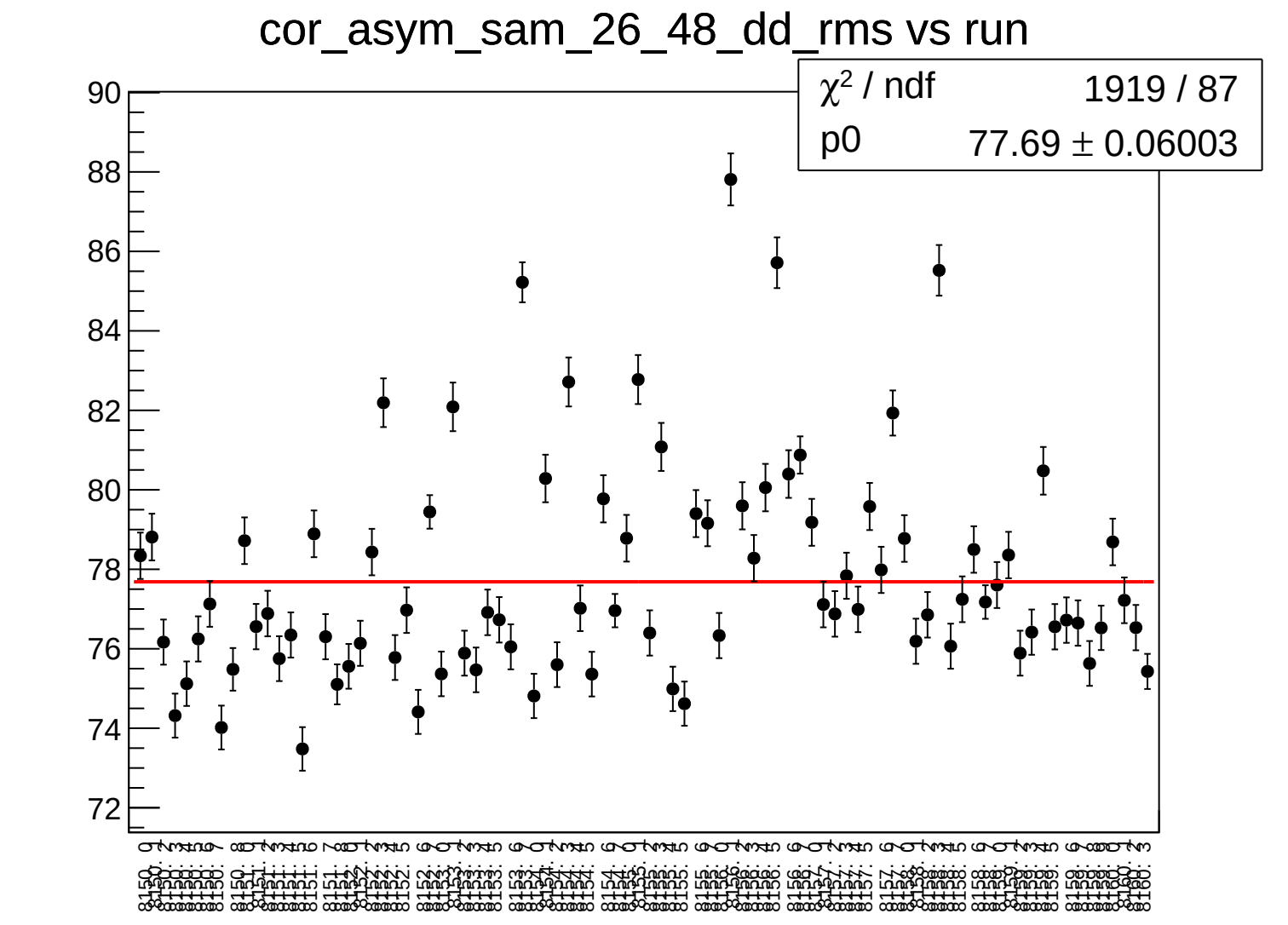

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 74.58 / 87
p0 757.4 ± 578.9
pull
Entries 88
Mean −36.14
Std Dev 92.76

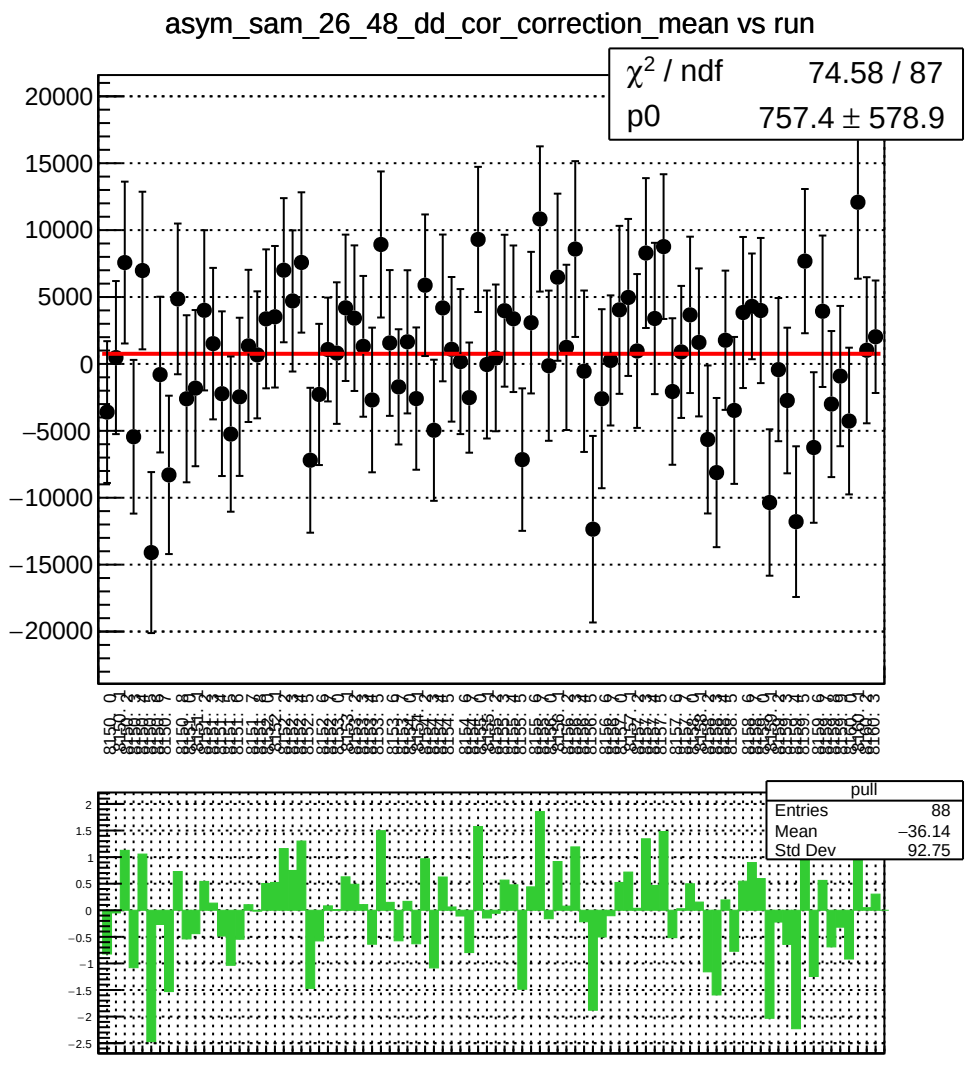

pull1D
Entries 88
Mean −0.006133
Std Dev 0.9206

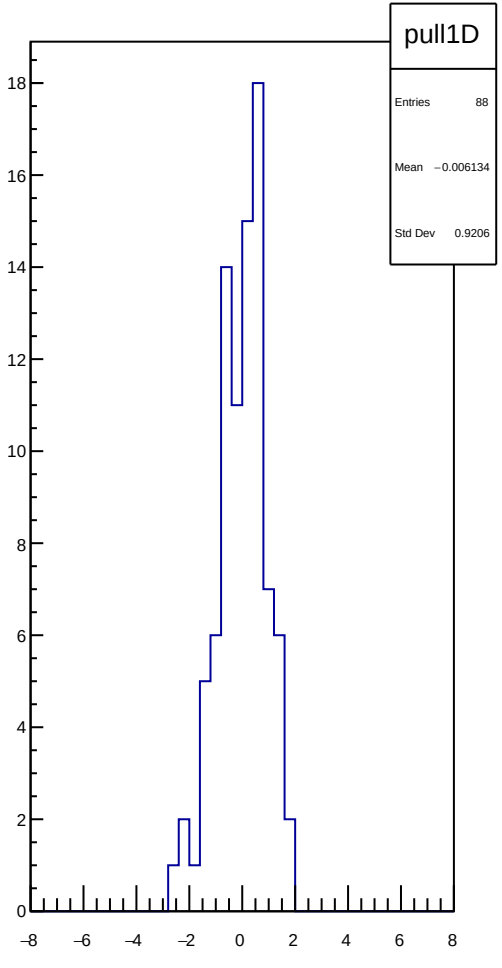

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 5294 / 87
p0 529.2 ± 0.4093
680
660
640
620
600
580
560
540
520
500
480

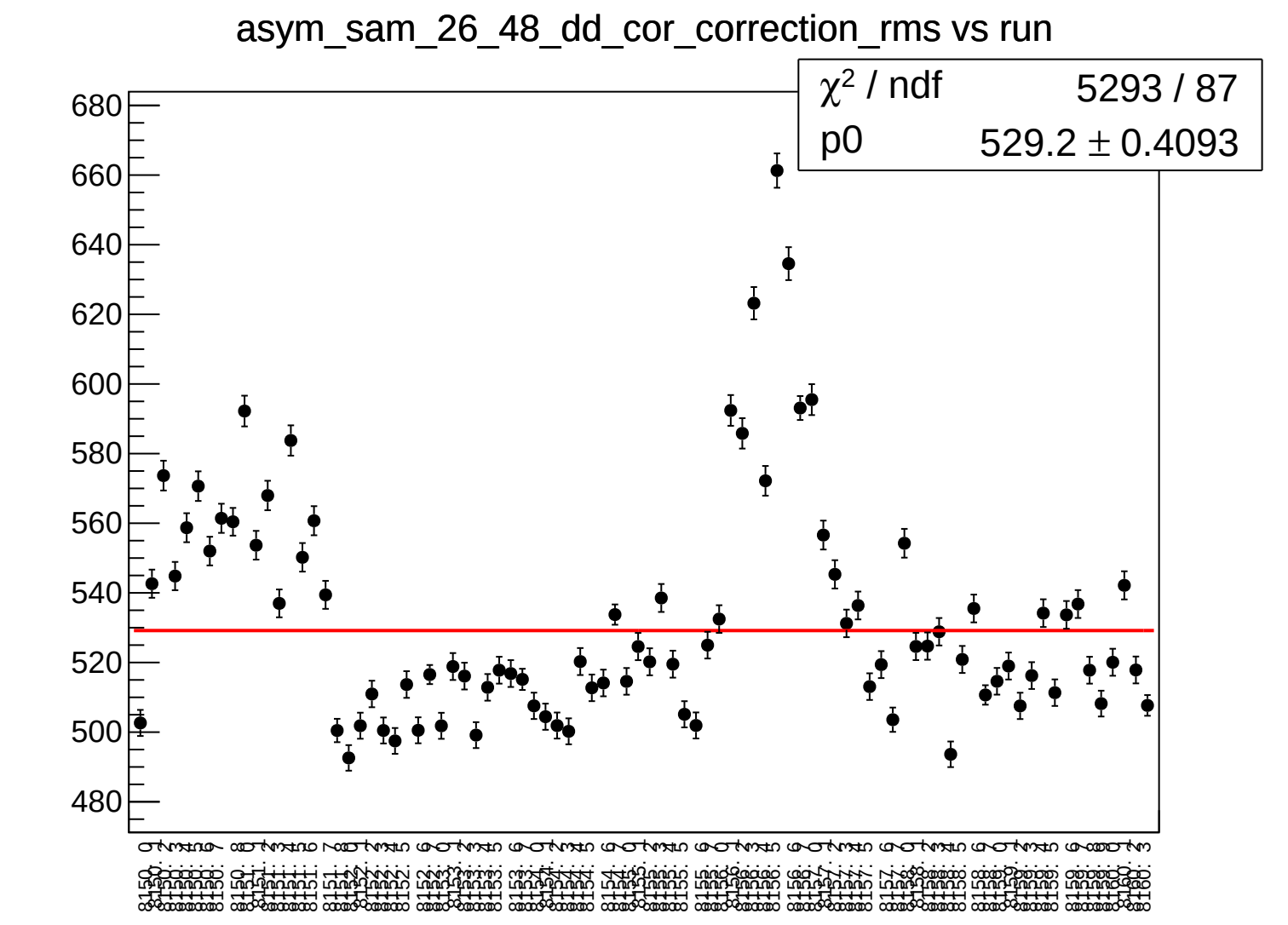

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 96.61 / 87
p0 −147 ± 84.9
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 90.14
Std Dev 0
3
2
1
0
−1
−2

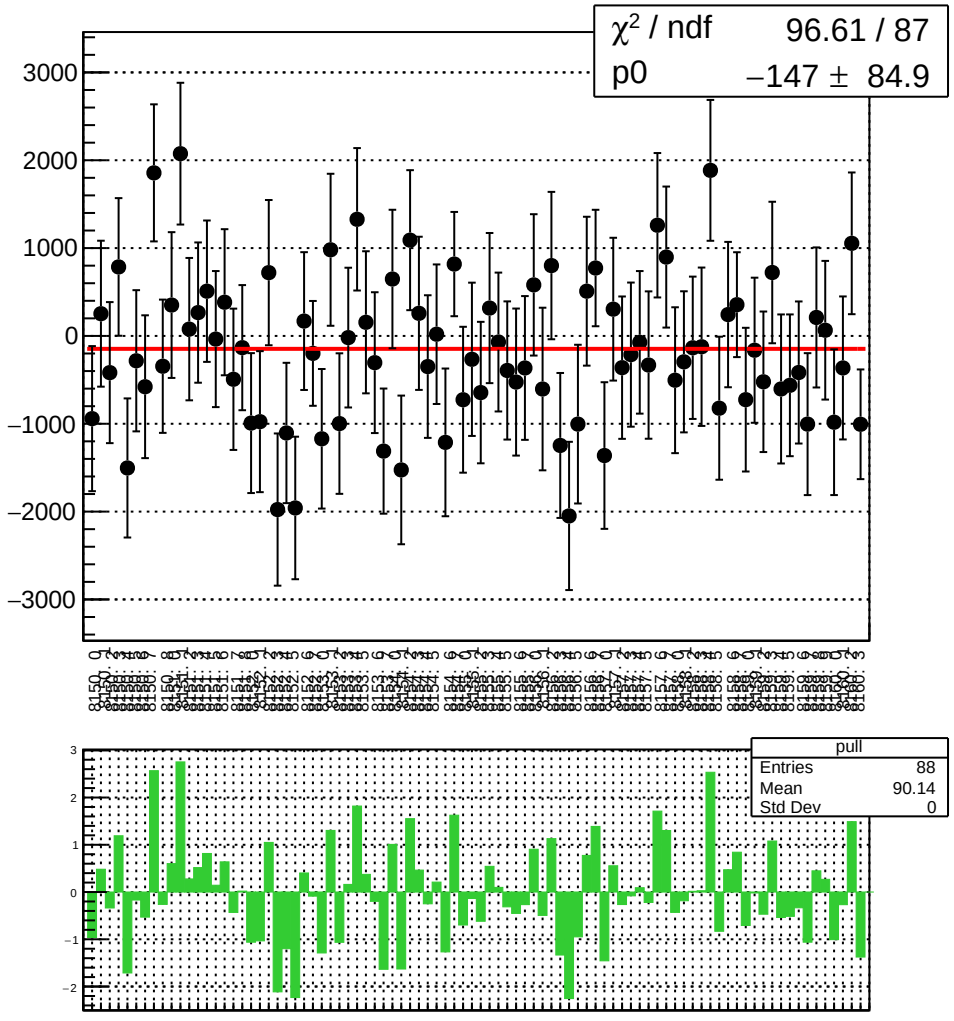

pull1D
Entries 88
Mean −0.01223
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

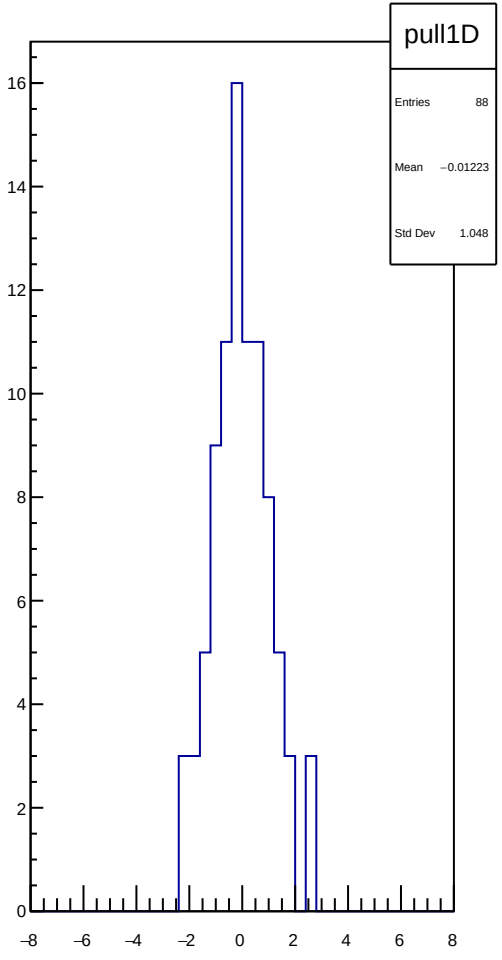

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1919 / 87
p0 77.69 ± 0.06003
90
88
86
84
82
80
78
76
74
72

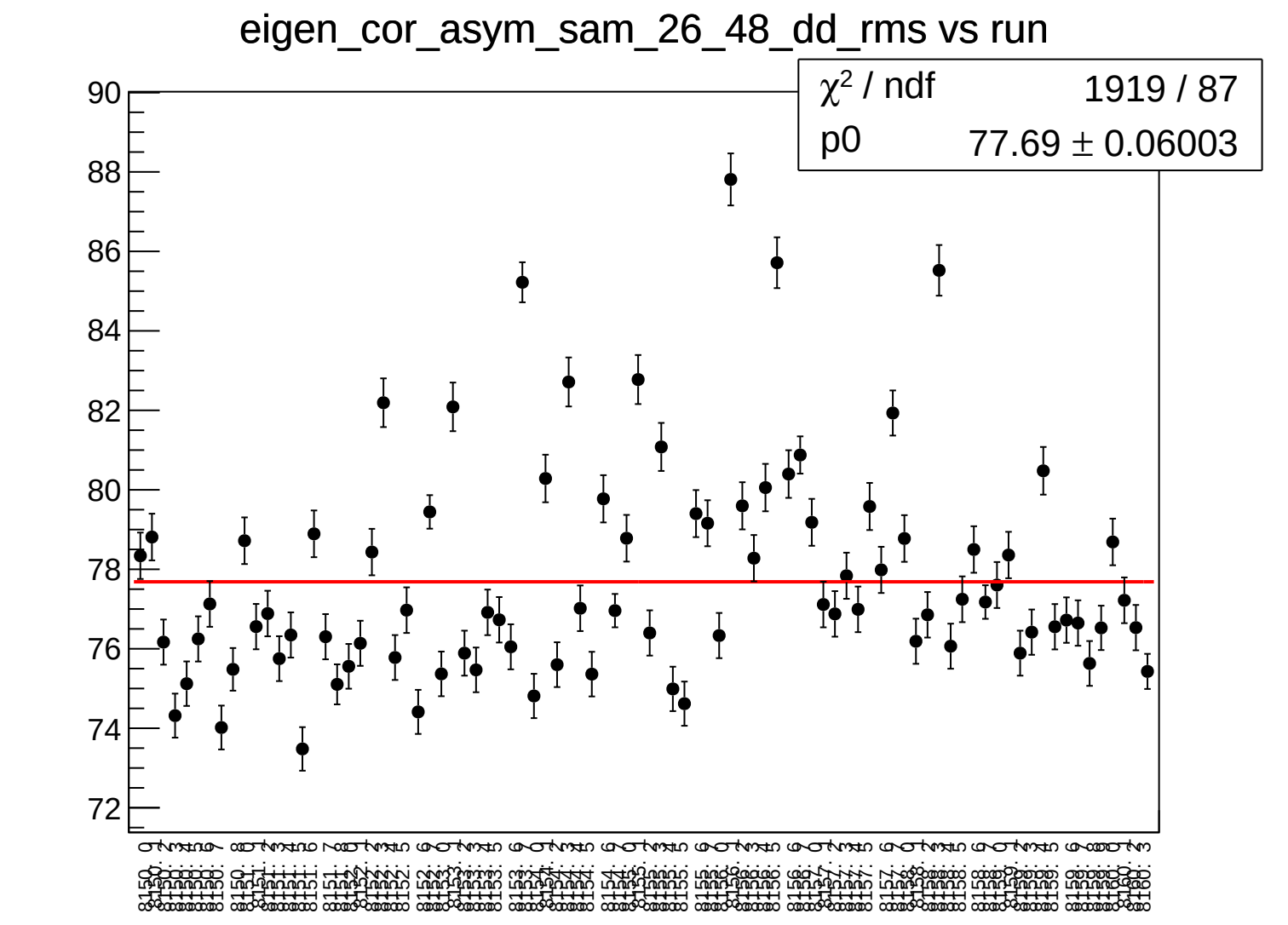

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 74.58 / 87
p0 757.4 ± 578.9
pull
Entries 88
Mean −36.14
Std Dev 92.75

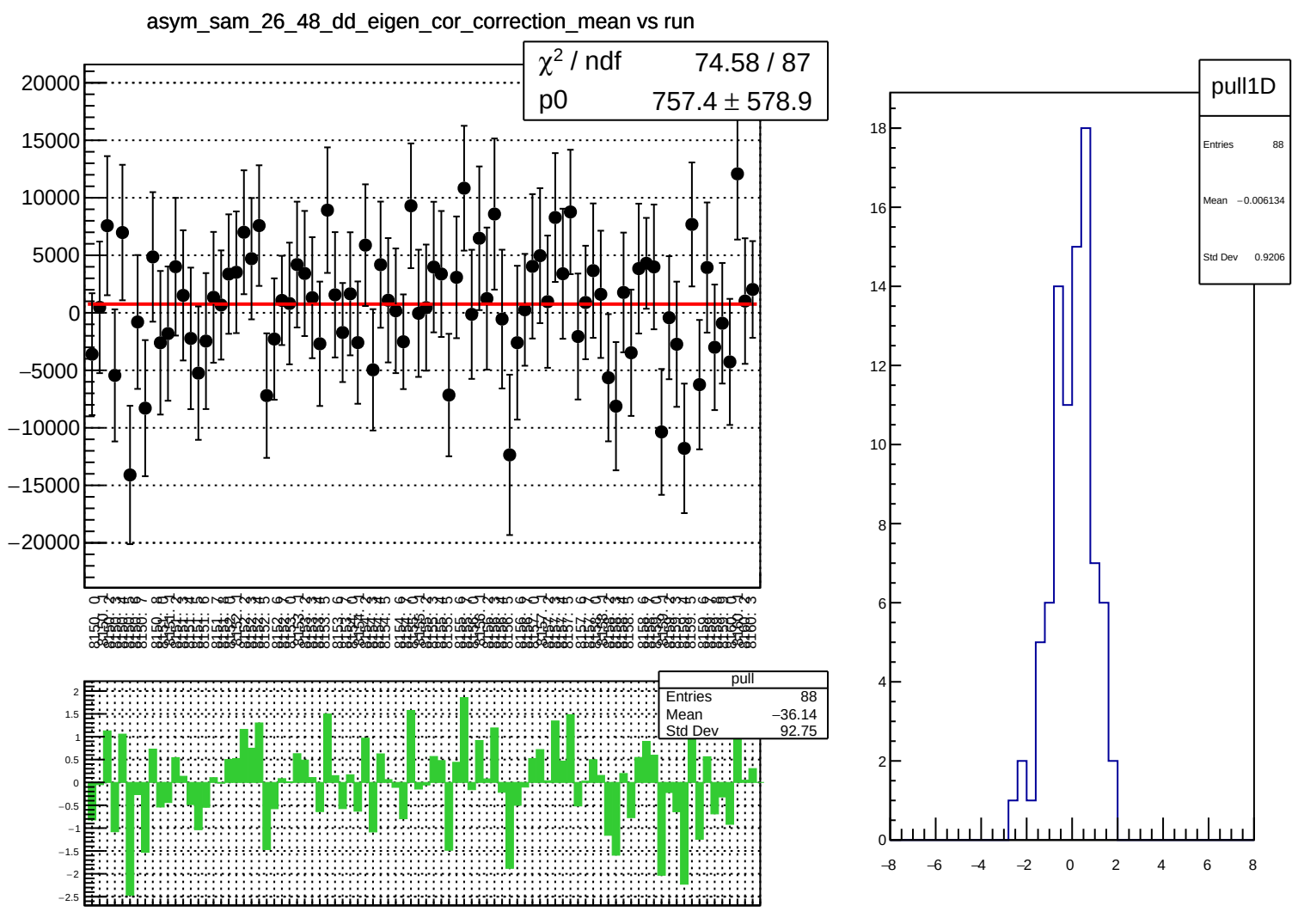

pull1D
Entries 88
Mean −0.006134
Std Dev 0.9206

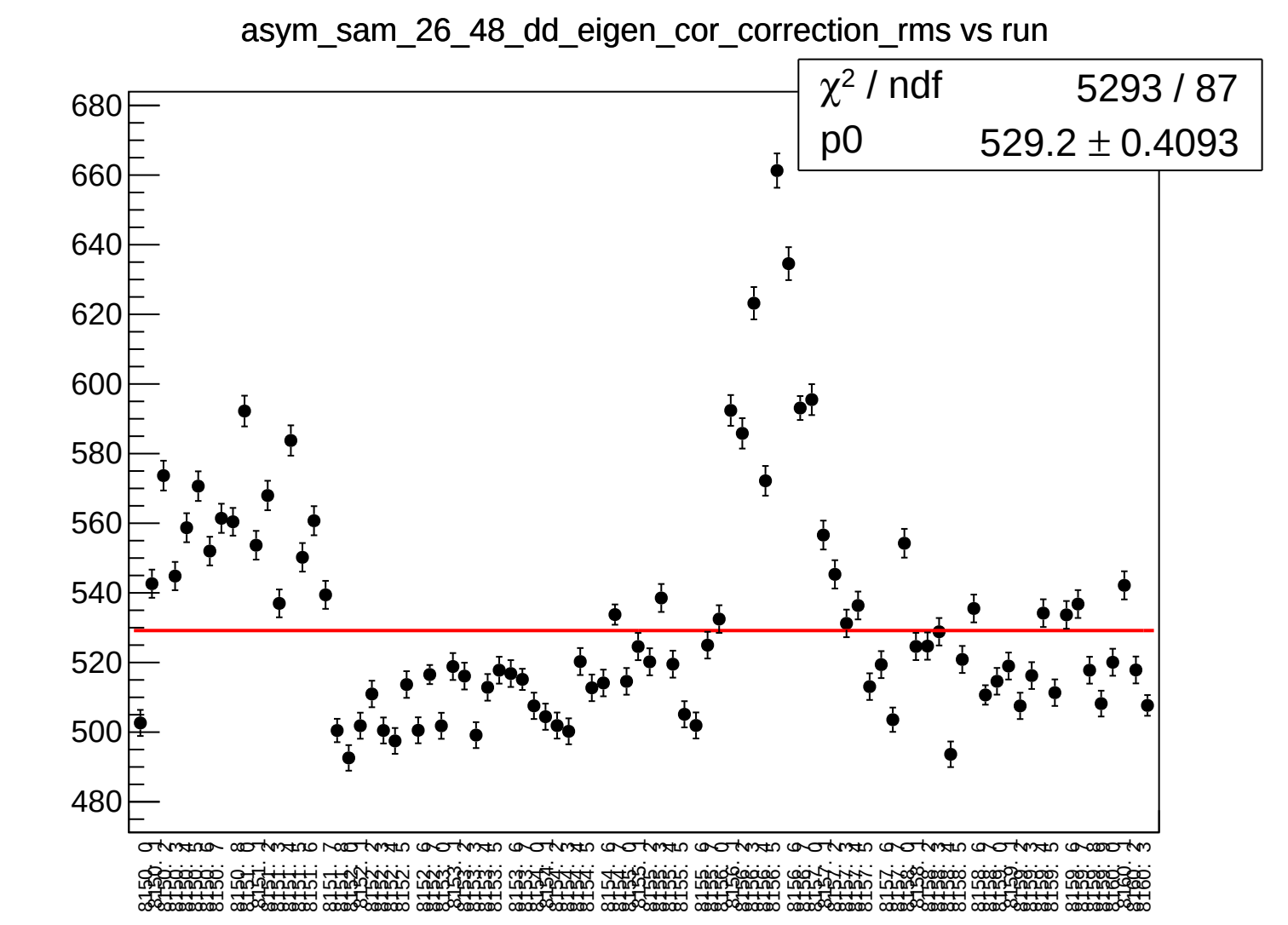

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 5293 / 87
p0 529.2 ± 0.4093
680
660
640
620
600
580
560
540
520
500
480

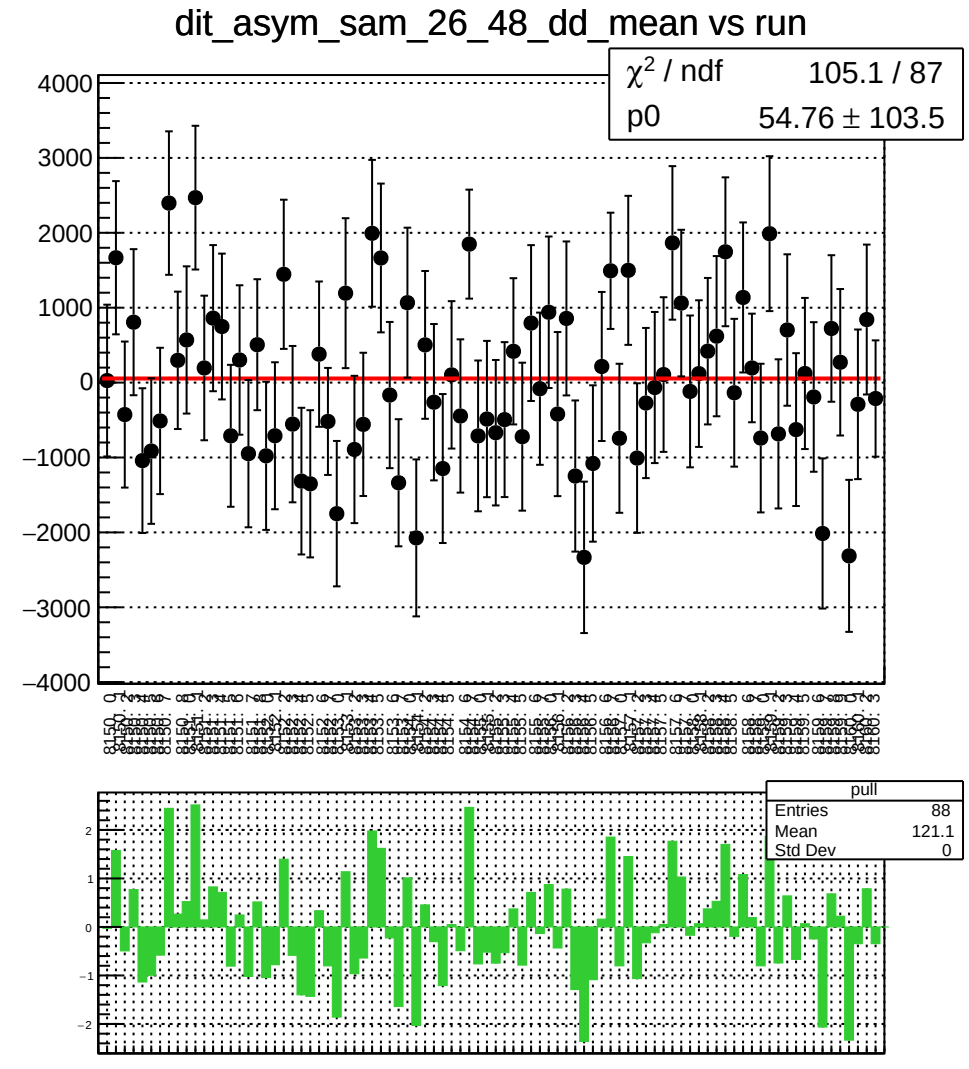

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 96.61 / 87
p0 −147 ± 84.9
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 90.14
Std Dev 0
3
2
1
0
−1
−2

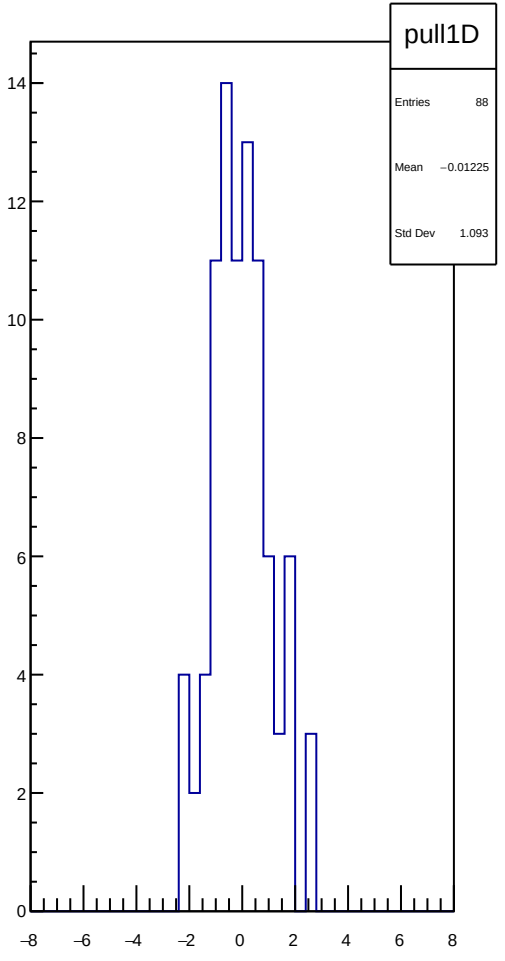

pull1D
Entries 88
Mean −0.01223
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

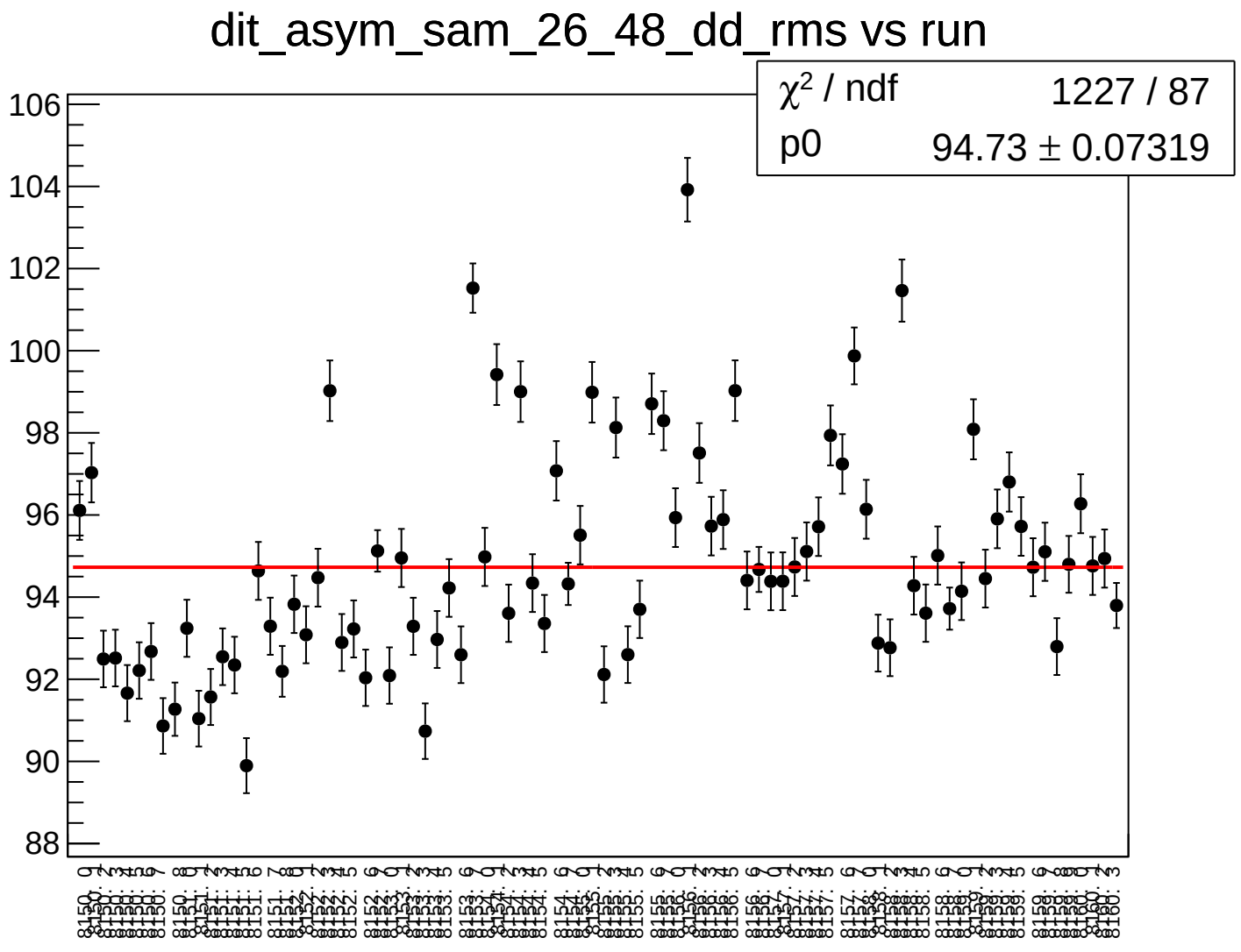

eigen_cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1919 / 87
p0 77.69 ± 0.06003
90
88
86
84
82
80
78
76
74
72

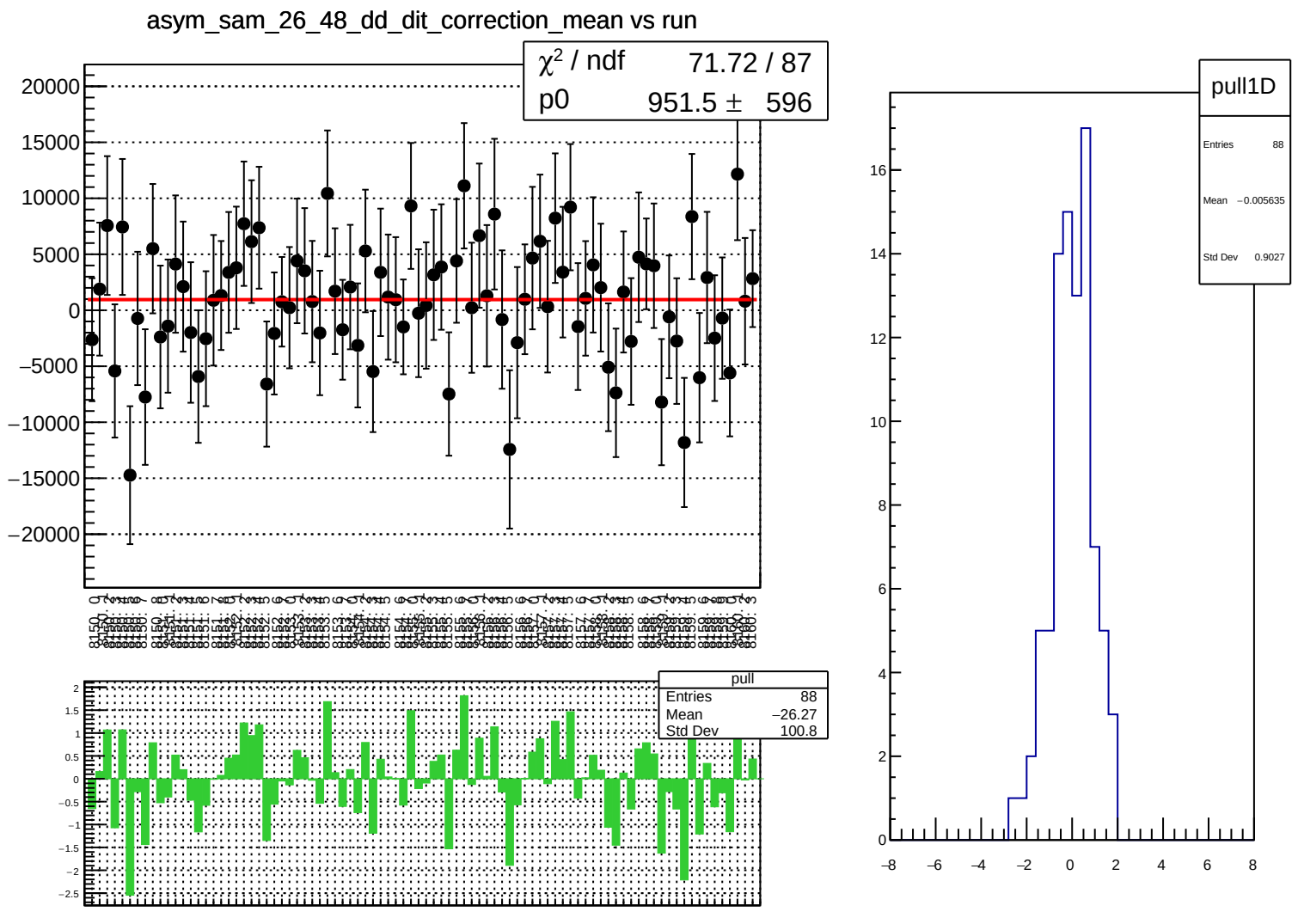

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.58 / 87
p0 757.4 ± 578.9
pull
Entries 88
Mean −36.14
Std Dev 92.75
pull1D
Entries 88
Mean −0.006134
Std Dev 0.9206

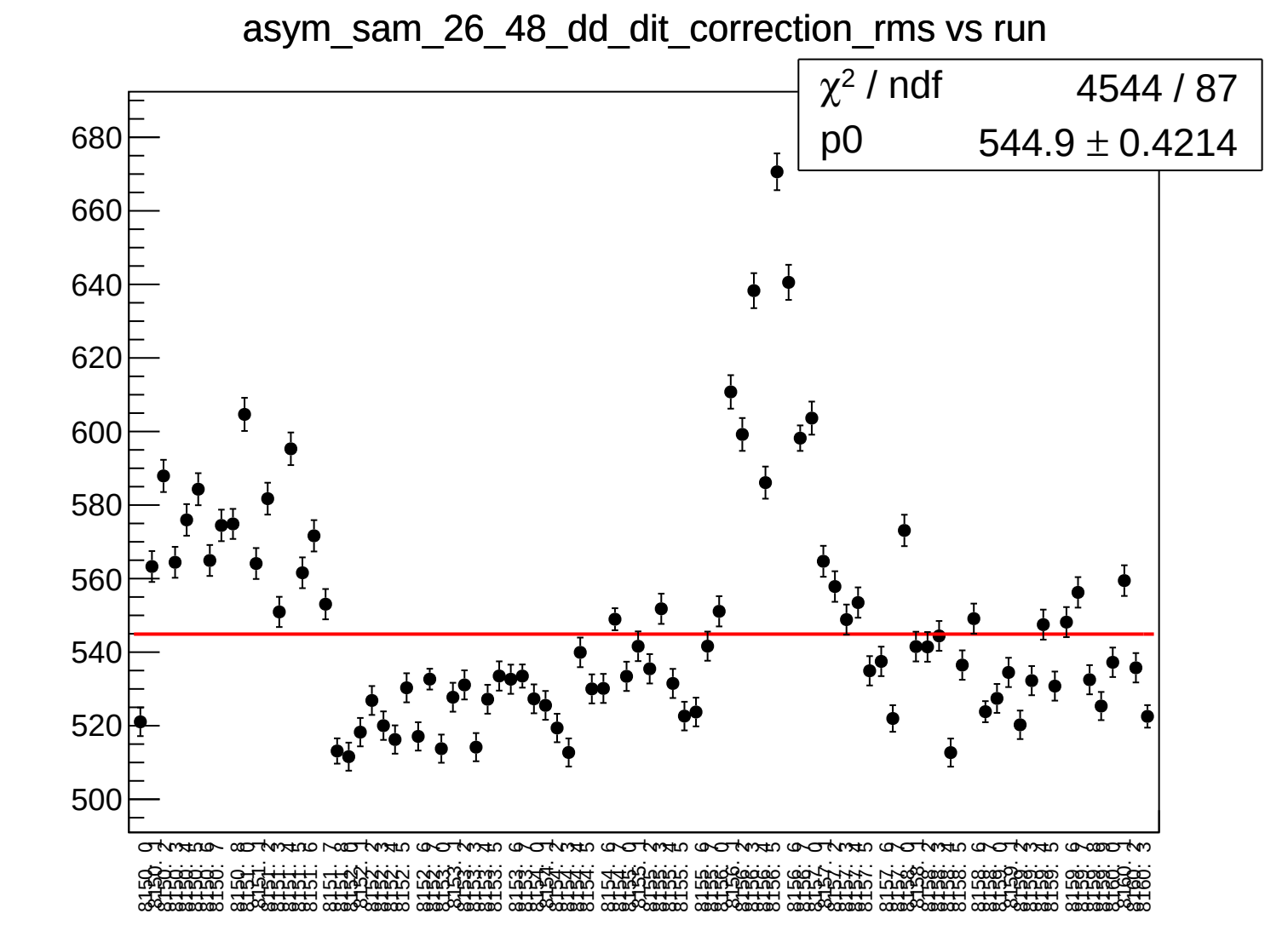

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5293 / 87
p0 529.2 ± 0.4093
680
660
640
620
600
580
560
540
520
500
480

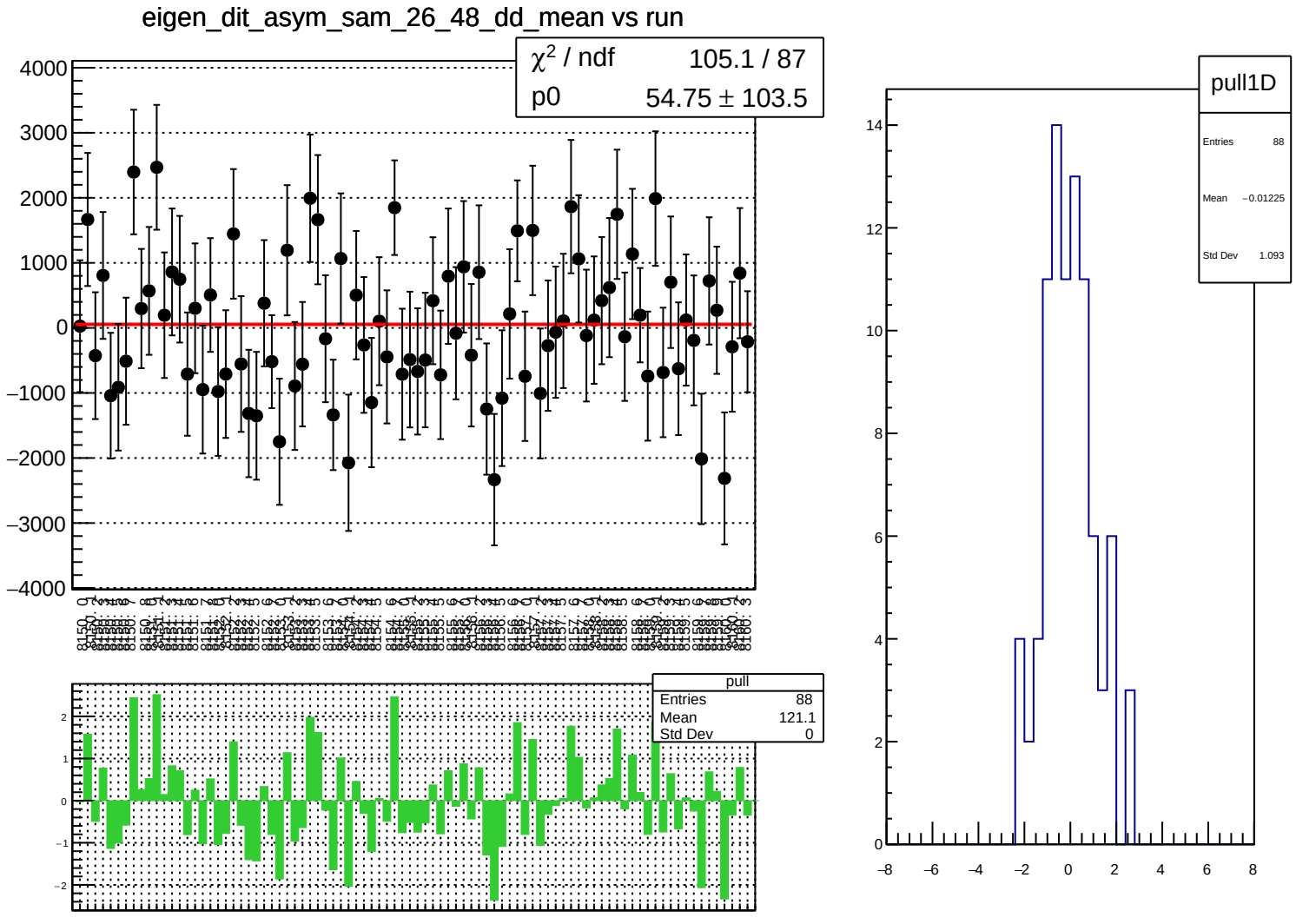

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 105.1 / 87
p0 54.76 ± 103.5
pull
Entries 88
Mean 121.1
Std Dev 0

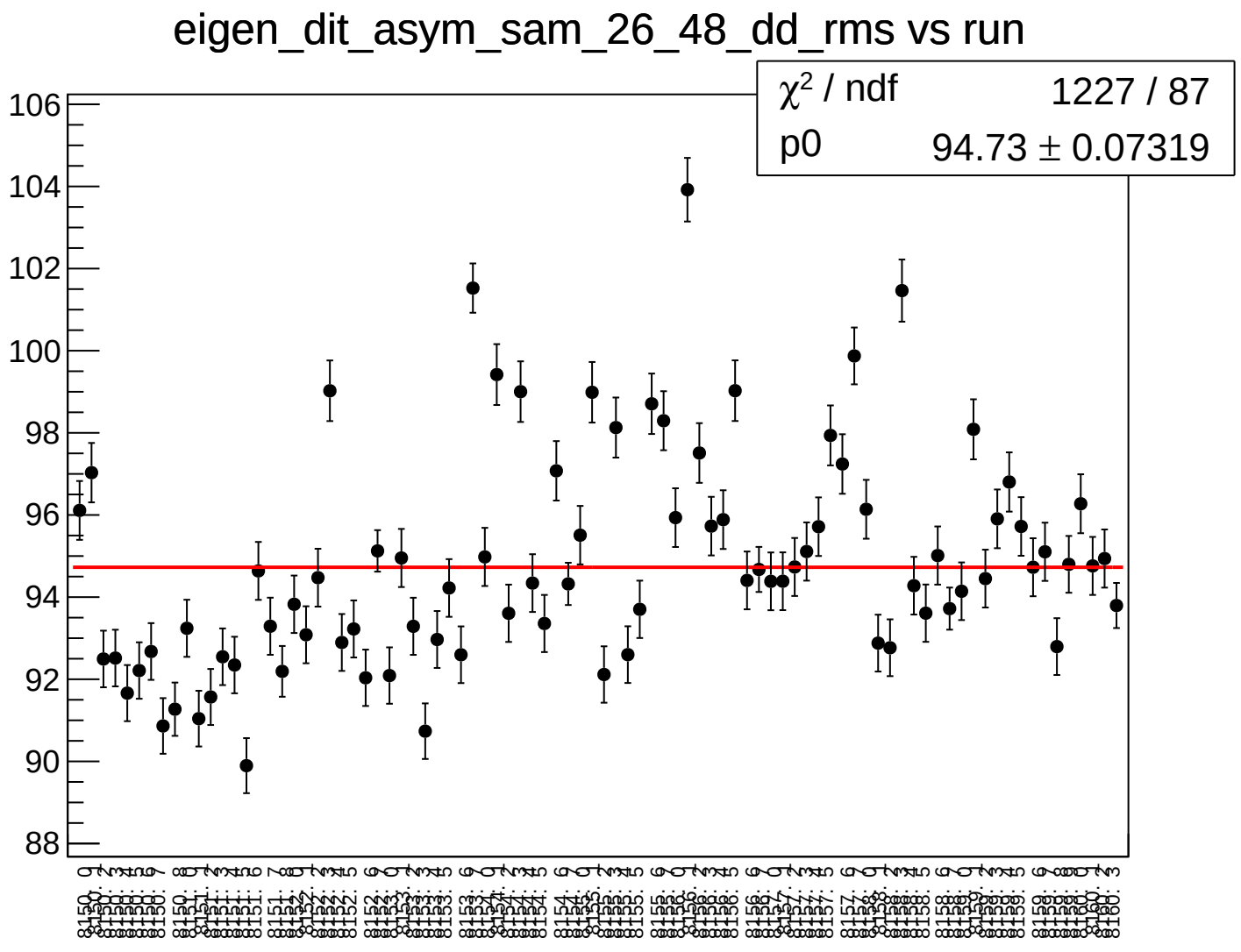

pull1D
Entries 88
Mean −0.01225
Std Dev 1.093

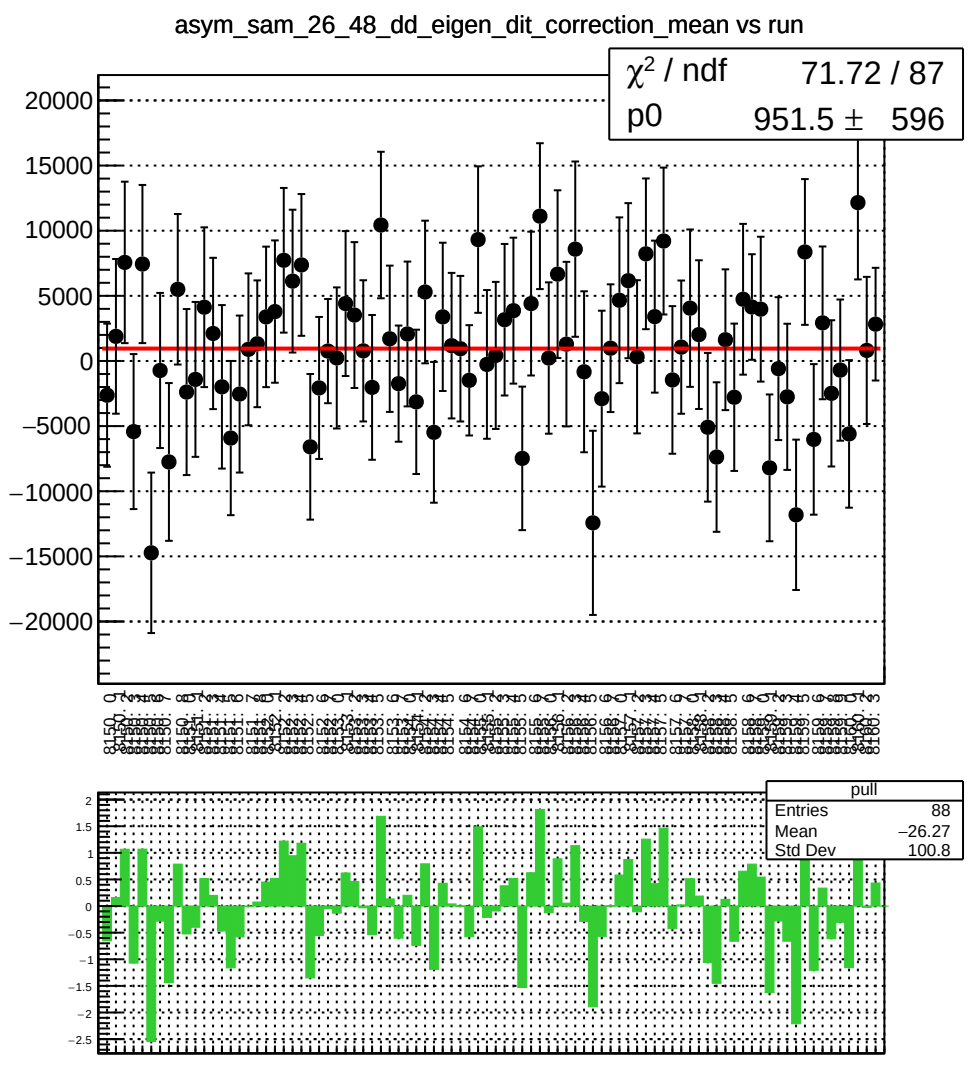

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1227 / 87
p0 94.73 ± 0.07319
106
104
102
100
98
96
94
92
90
88

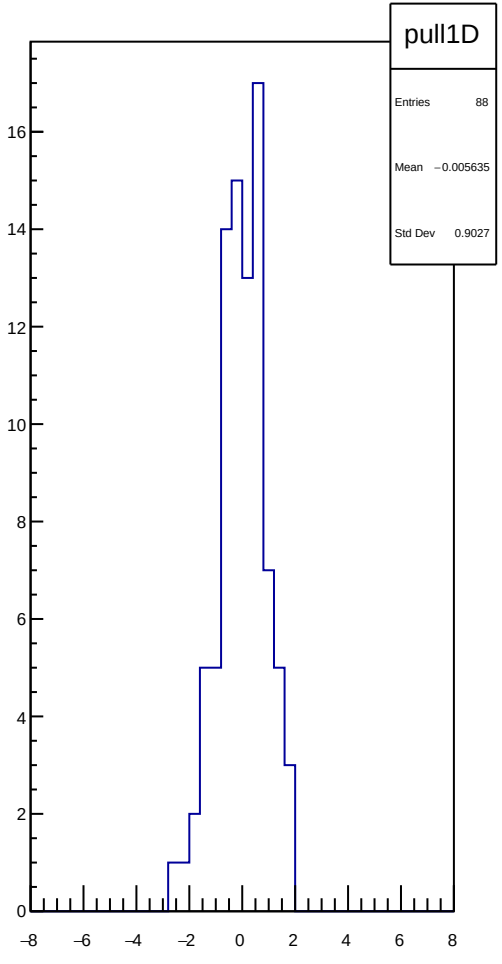

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 71.72 / 87
p0 951.5 ± 596
pull
Entries 88
Mean −26.27
Std Dev 100.8
pull1D
Entries 88
Mean −0.005635
Std Dev 0.9027

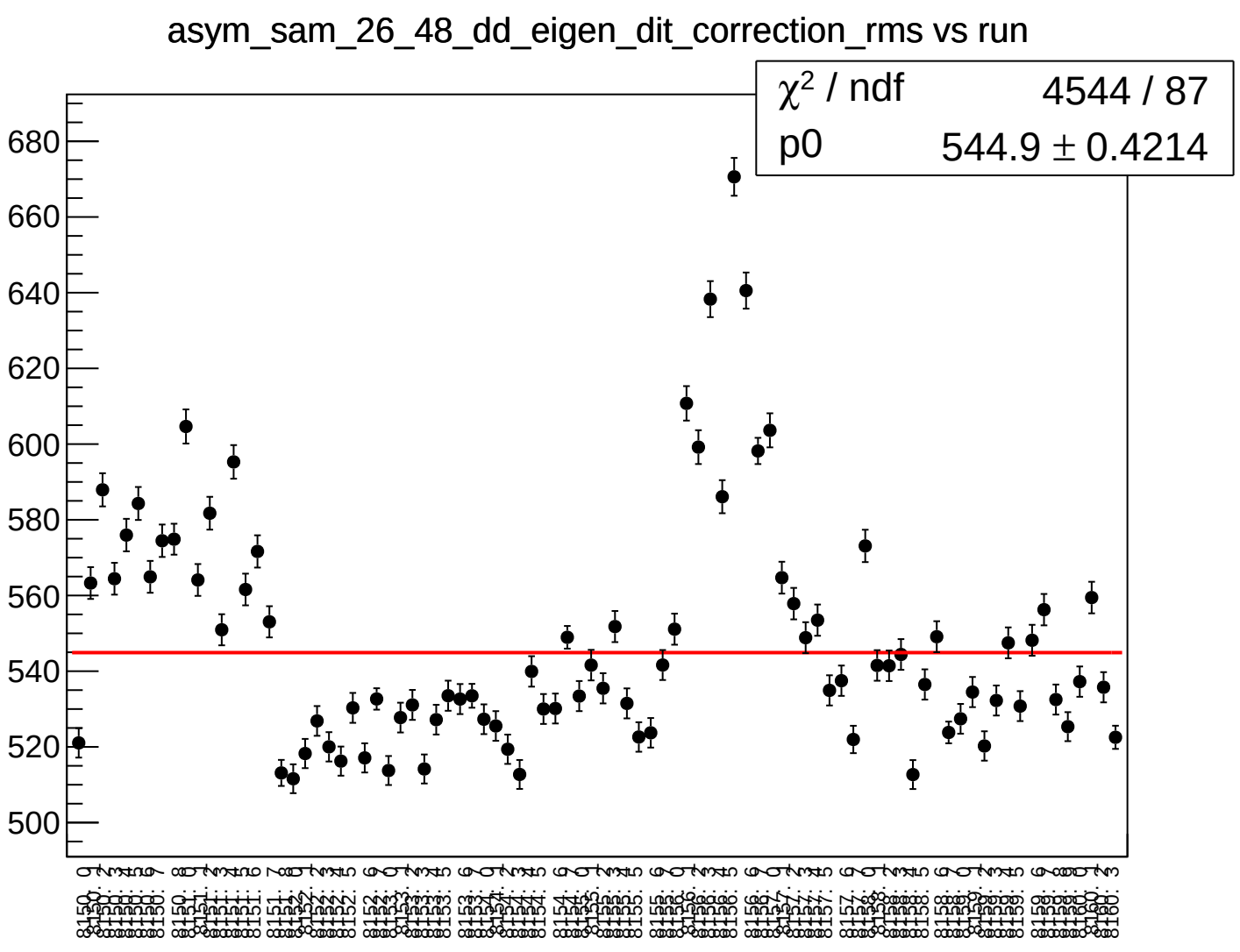

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 4544 / 87
p0 544.9 ± 0.4214
680
660
640
620
600
580
560
540
520
500

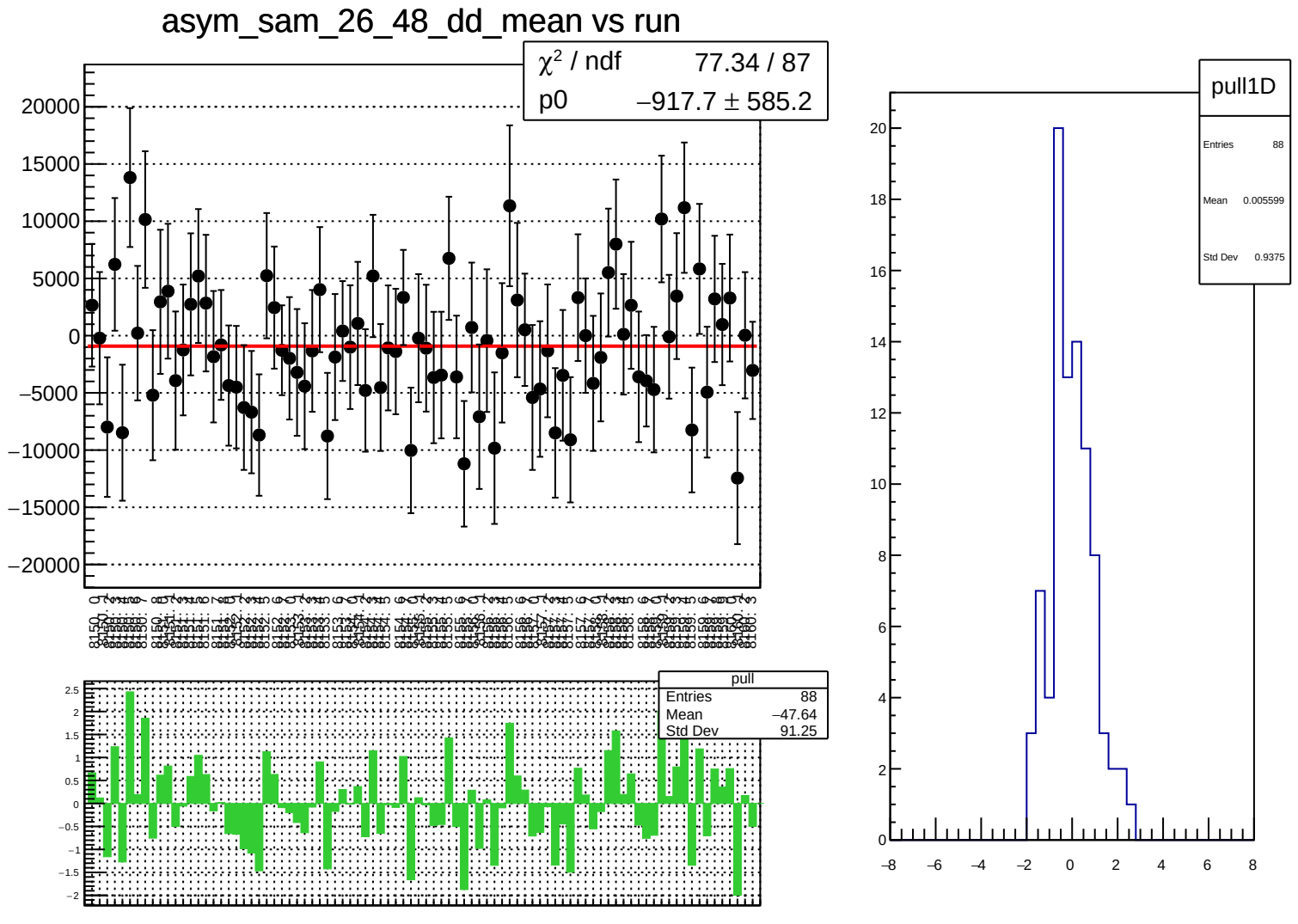

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 105.1 / 87
p0 54.75 ± 103.5
pull
Entries 88
Mean 121.1
Std Dev 0
pull1D
Entries 88
Mean −0.01225
Std Dev 1.093

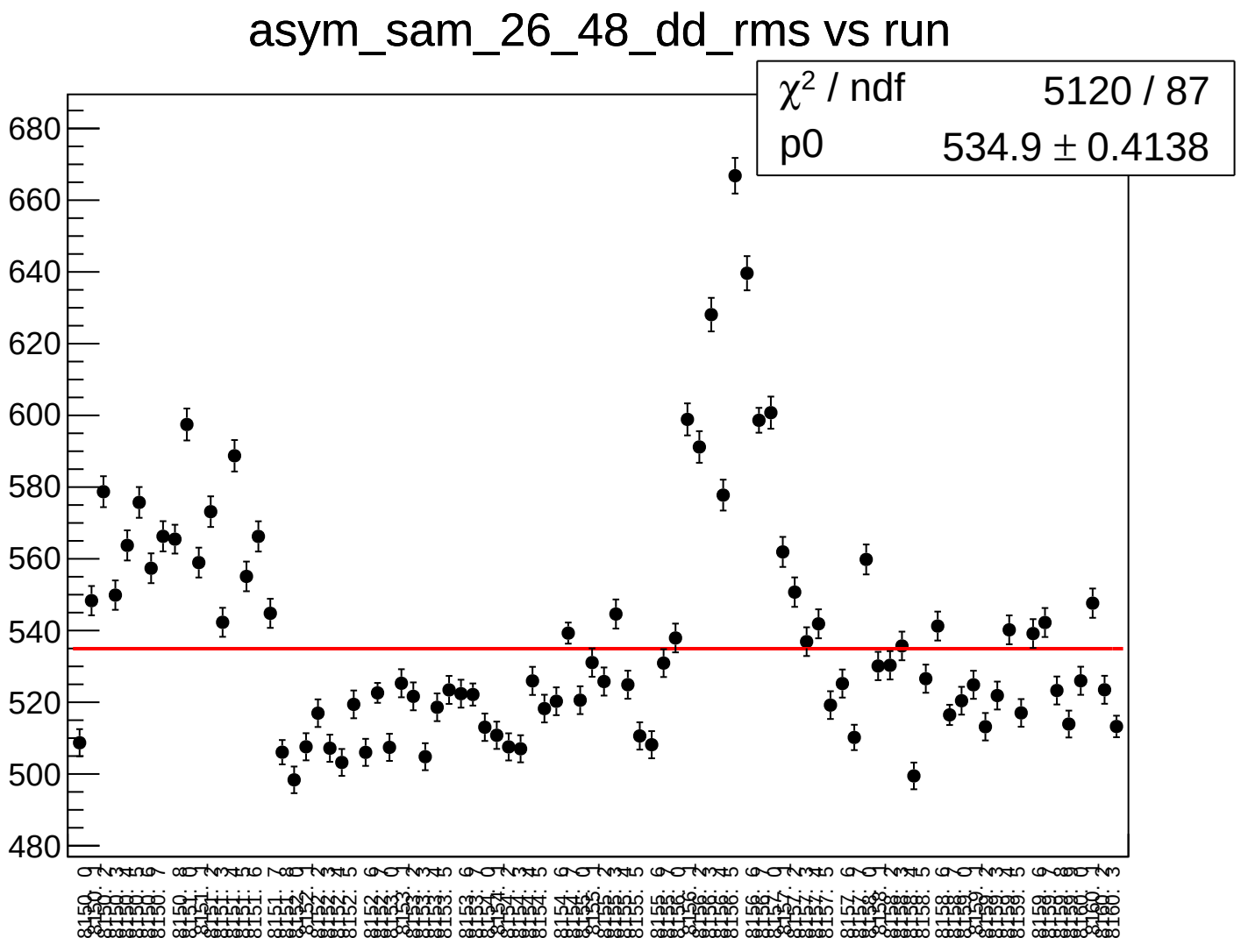

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1227 / 87
p0 94.73 ± 0.07319
106
104
102
100
98
96
94
92
90
88

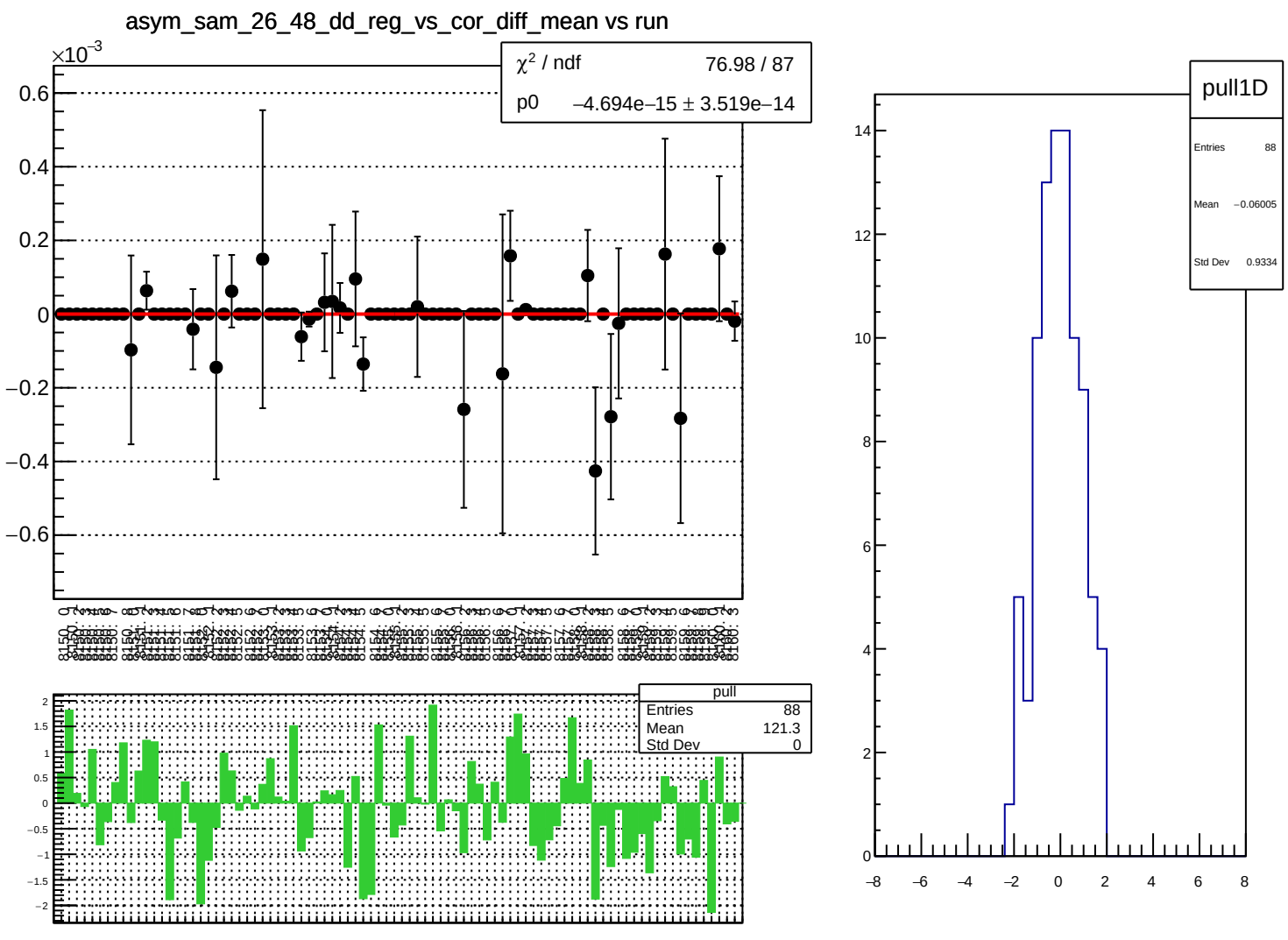

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.72 / 87
p0 951.5 ± 596
pull
Entries 88
Mean −26.27
Std Dev 100.8

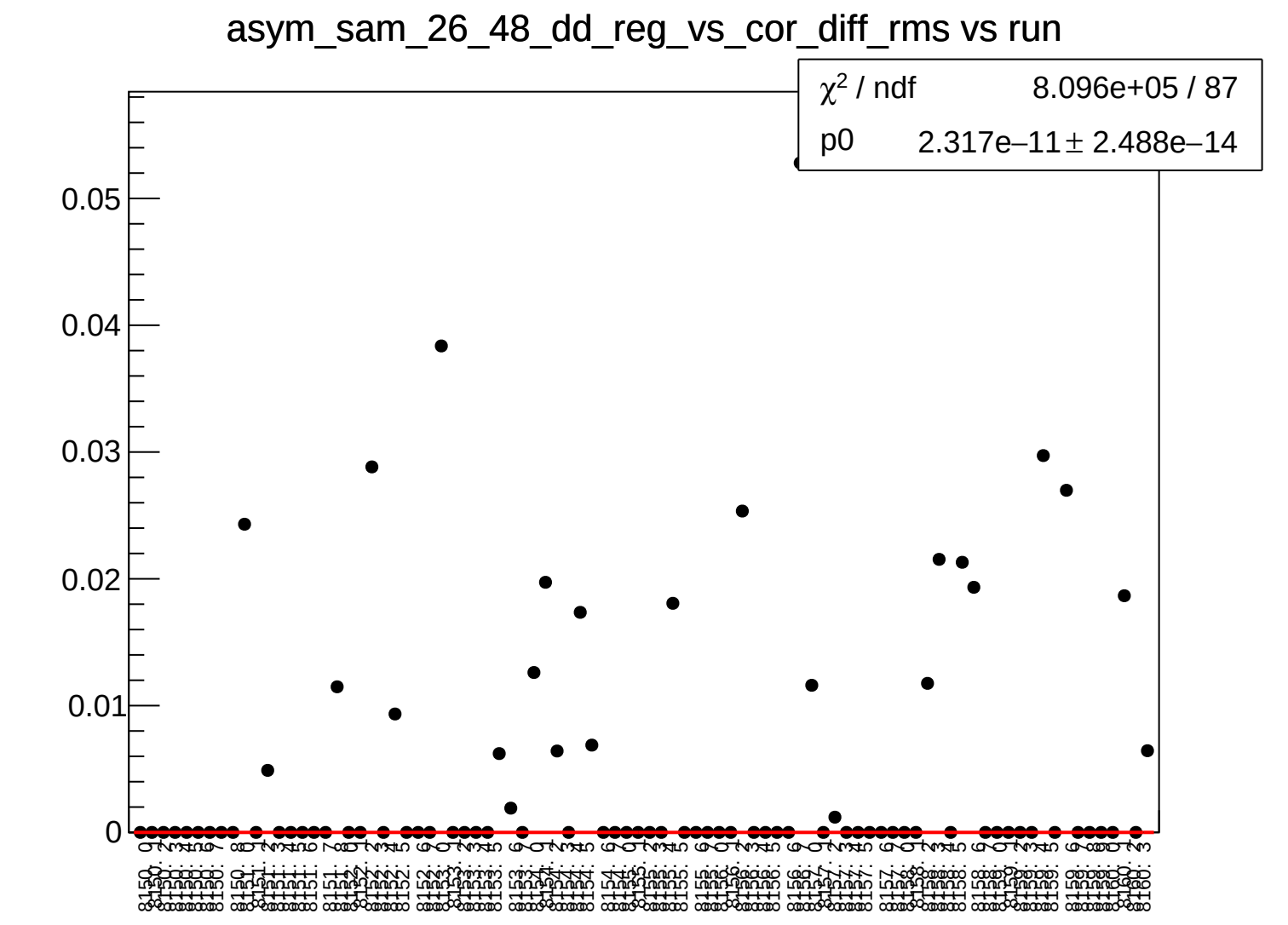

pull1D
Entries 88
Mean −0.005635
Std Dev 0.9027

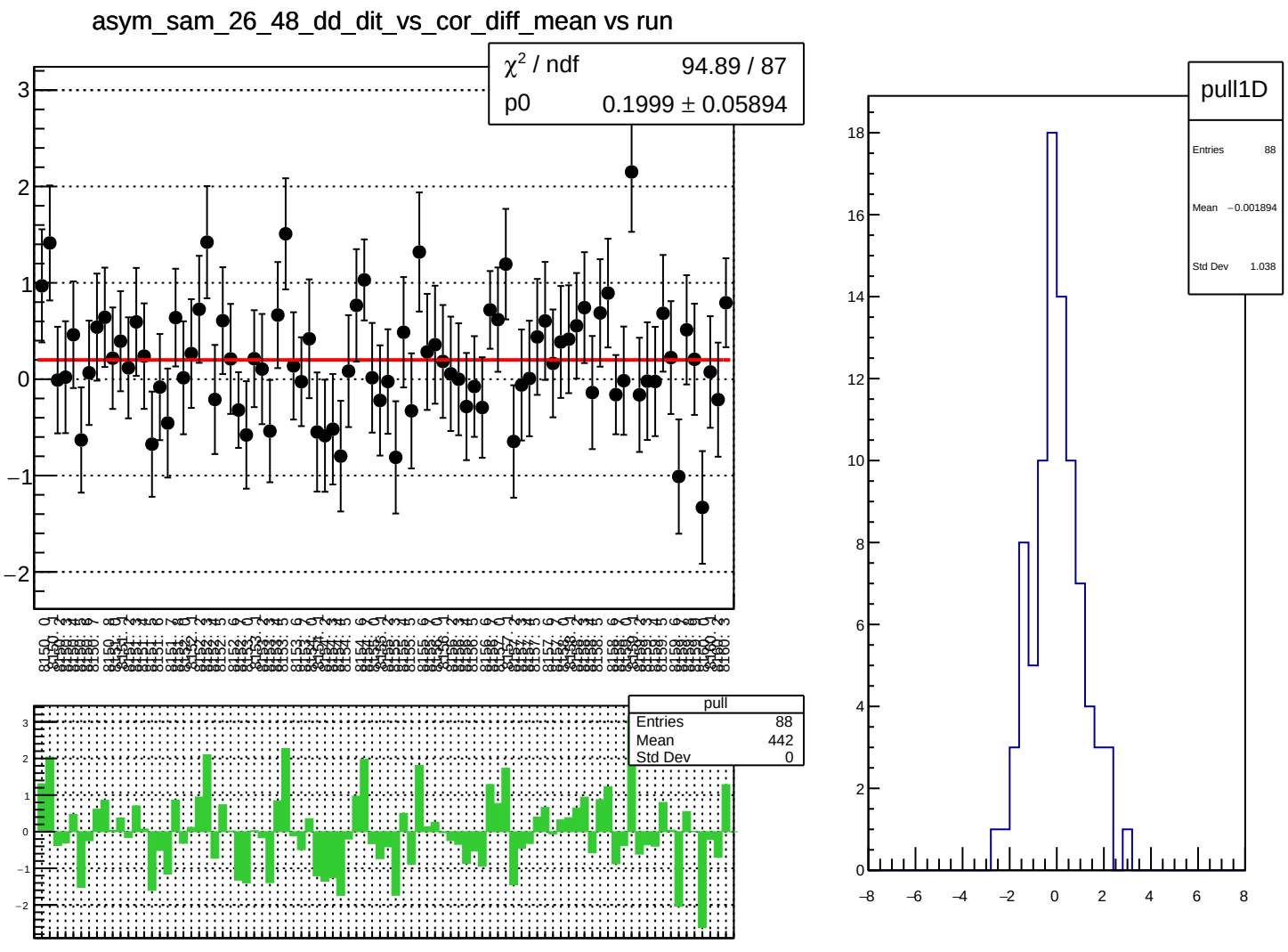

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4544 / 87
p0 544.9 ± 0.4214
680
660
640
620
600
580
560
540
520
500

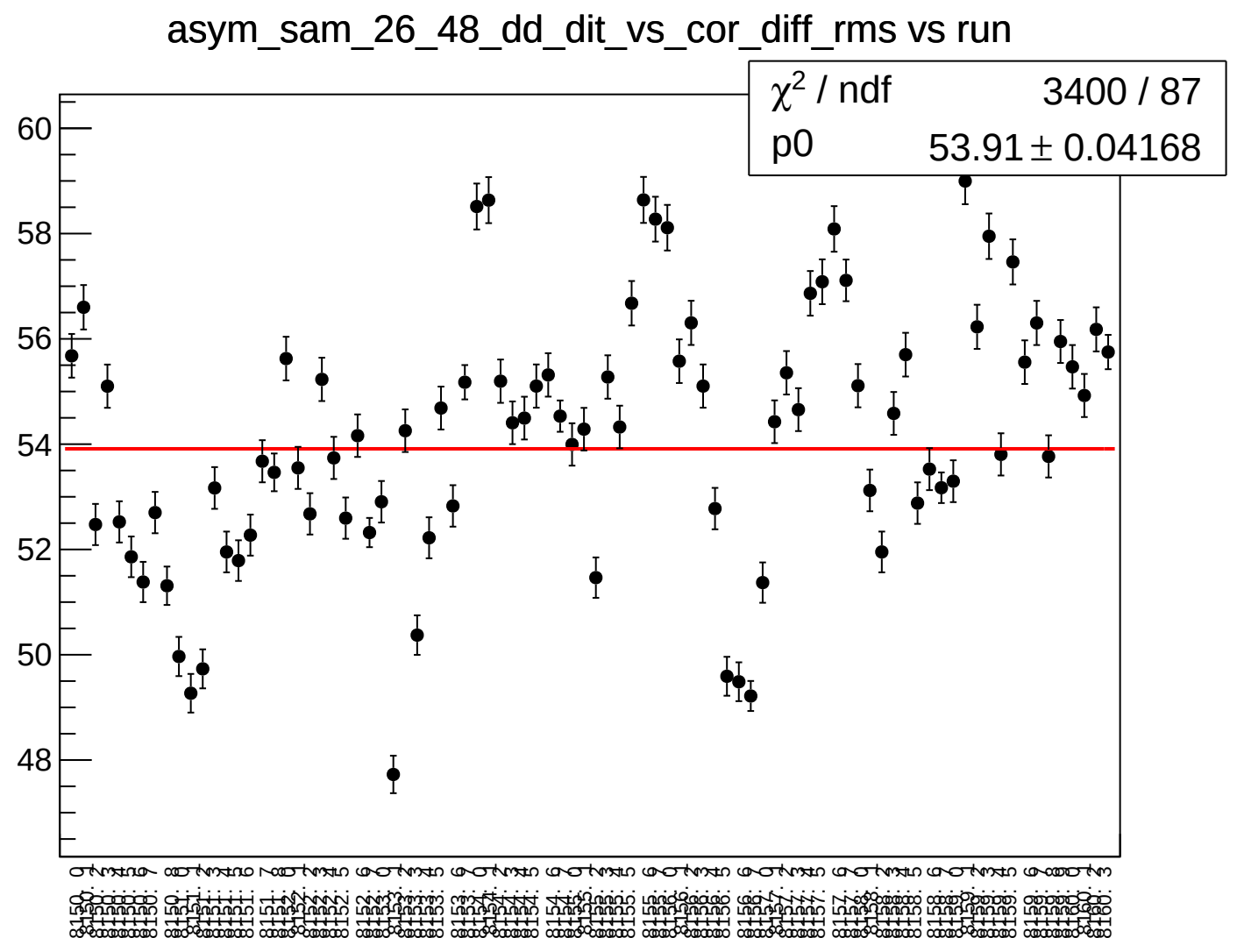

asym_sam_26_48_dd_mean vs run
χ² / ndf 77.34 / 87
p0 −917.7 ± 585.2
pull
Entries 88
Mean −47.64
Std Dev 91.25
pull1D
Entries 88
Mean 0.005599
Std Dev 0.9375

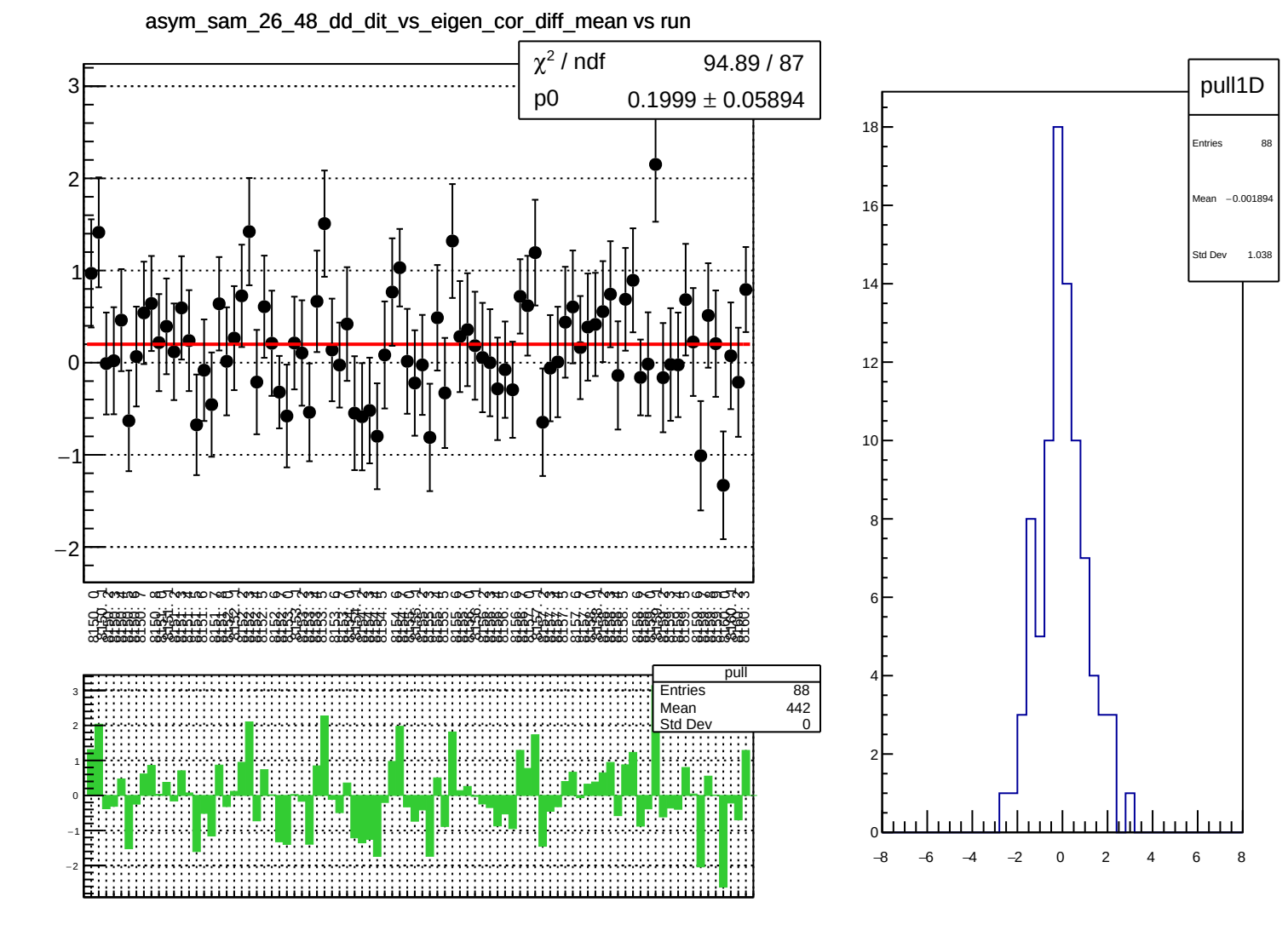

asym_sam_26_48_dd_rms vs run
χ² / ndf 5120 / 87
p0 534.9 ± 0.4138
680
660
640
620
600
580
560
540
520
500
480

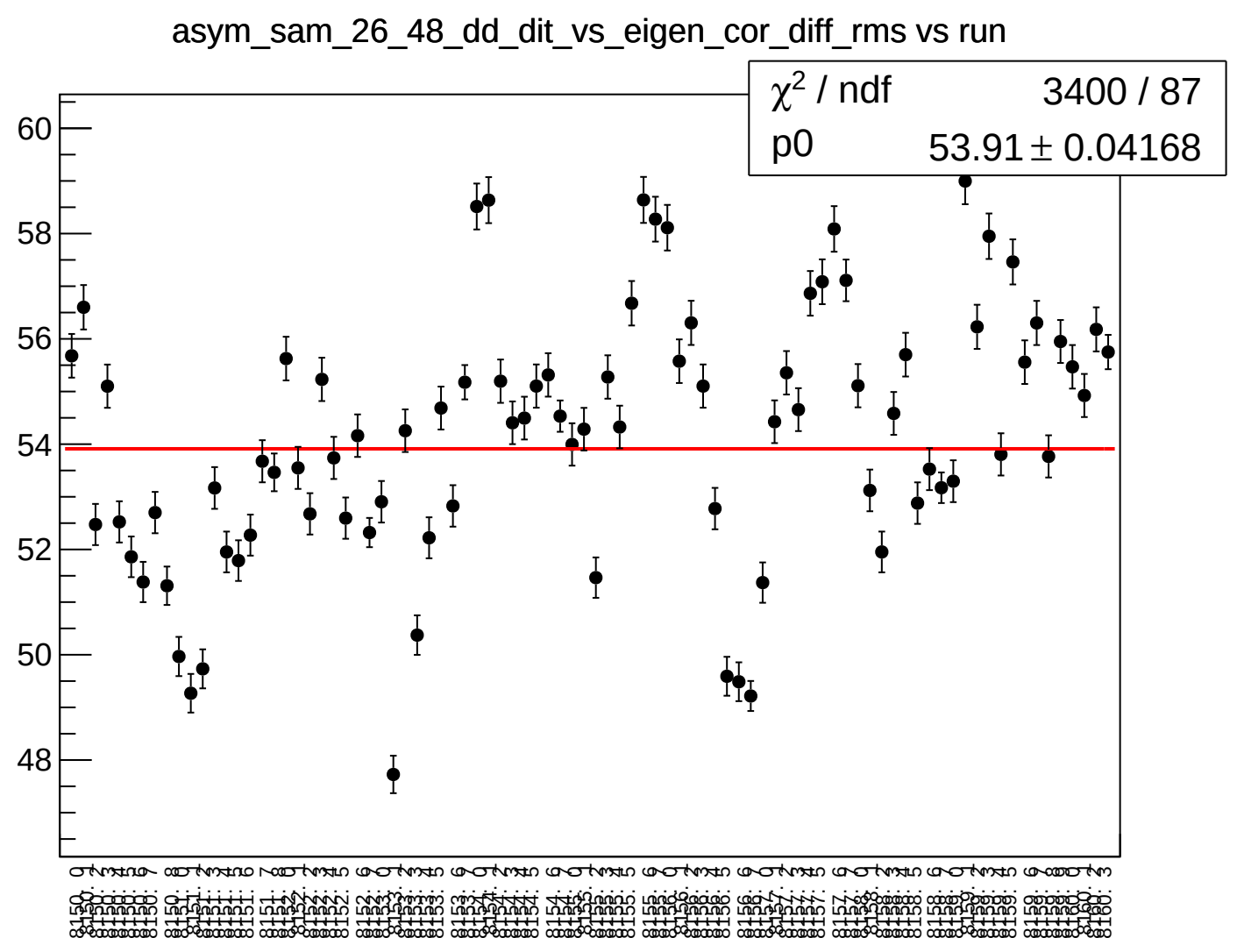

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 76.98 / 87
p0 −4.694e−15 ± 3.519e−14
pull
Entries 88
Mean 121.3
Std Dev 0
pull1D
Entries 88
Mean −0.06005
Std Dev 0.9334

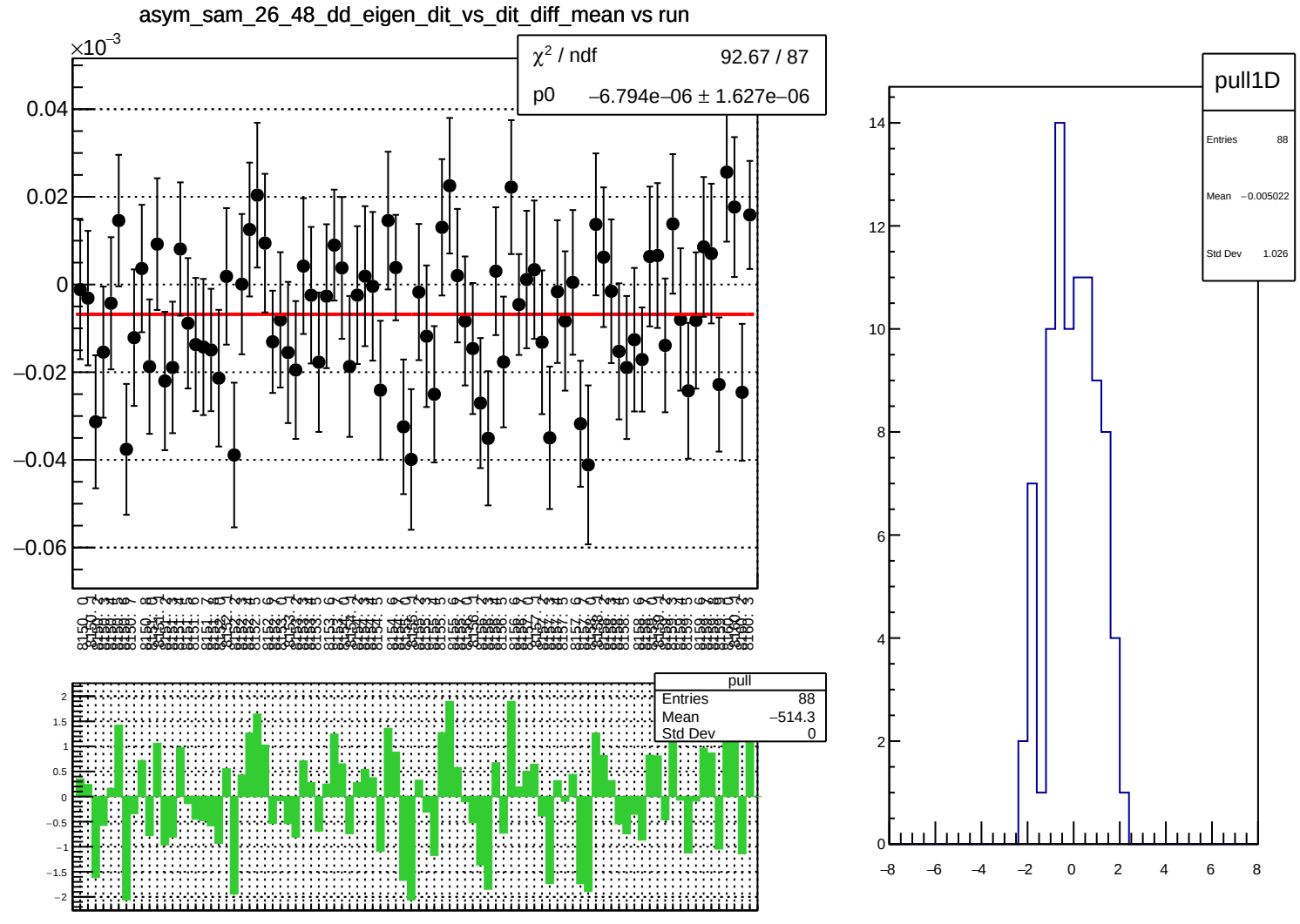

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.096e+05 / 87
p0 2.317e−11 ± 2.488e−14
0.05
0.04
0.03
0.02
0.01
0

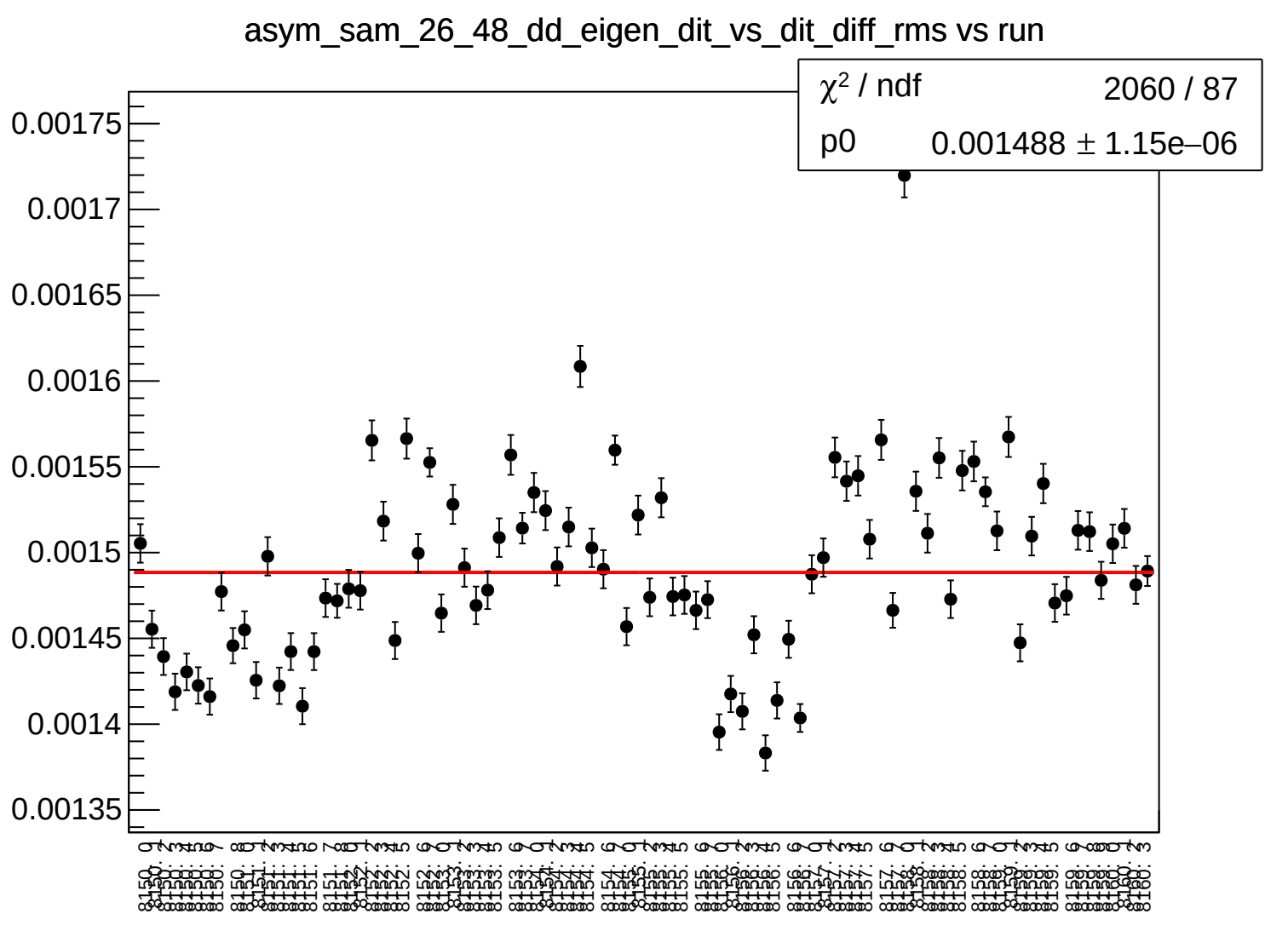

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.89 / 87
p0 0.1999 ± 0.05894
pull
Entries 88
Mean 442
Std Dev 0
pull1D
Entries 88
Mean −0.001894
Std Dev 1.038

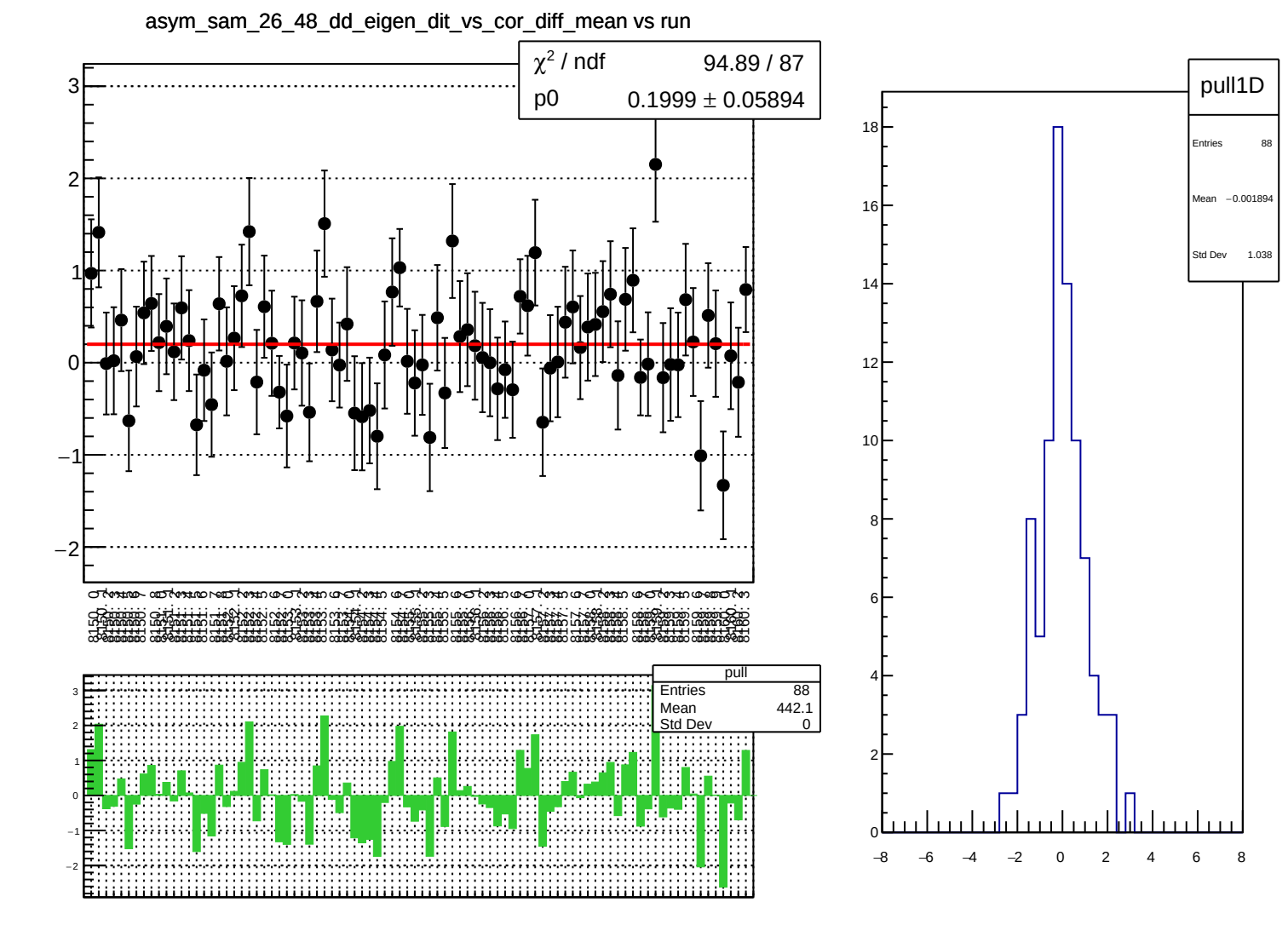

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3400 / 87
p0 53.91 ± 0.04168
60
58
56
54
52
50
48

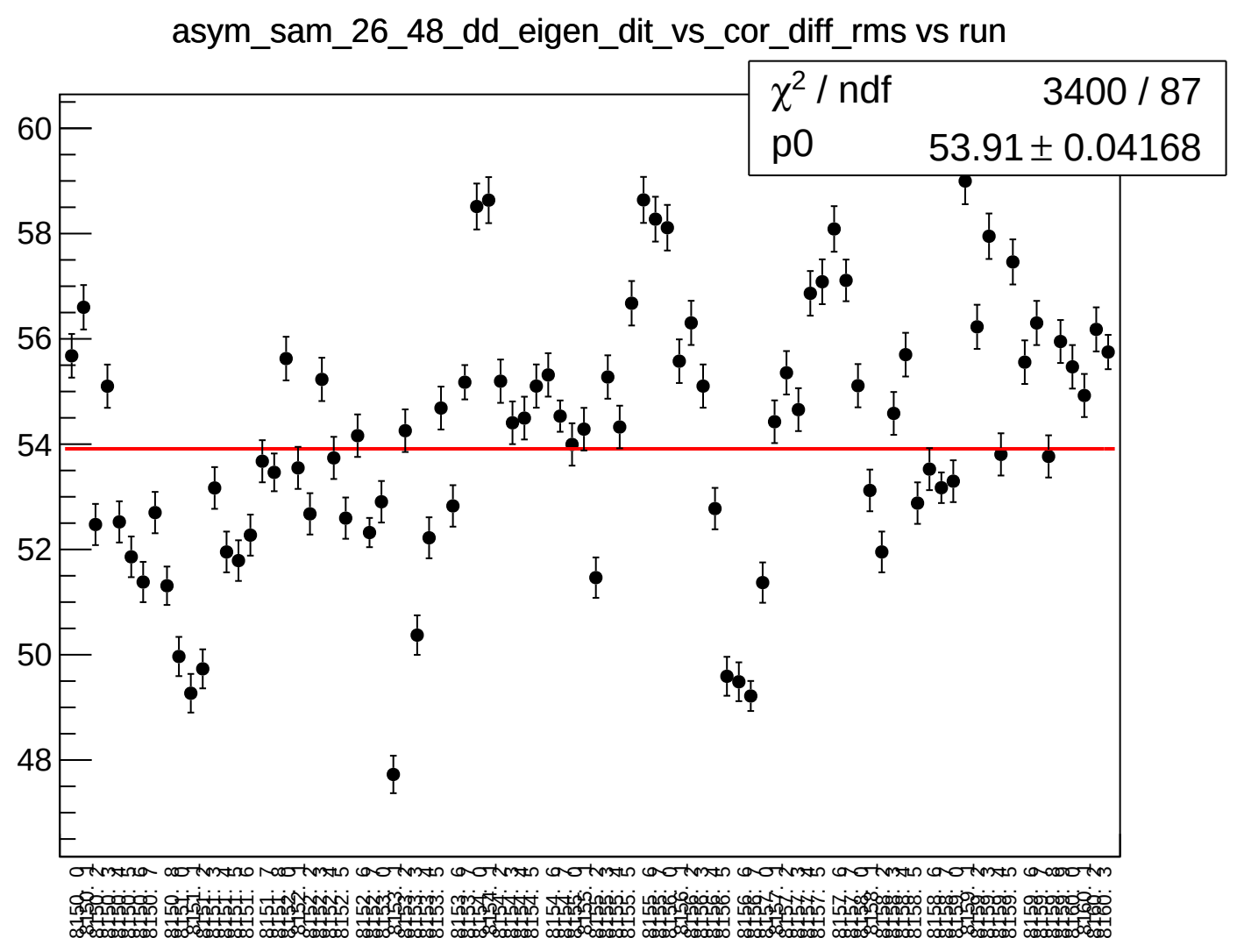

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.89 / 87
p0 0.1999 ± 0.05894
pull
Entries 88
Mean 442
Std Dev 0
pull1D
Entries 88
Mean −0.001894
Std Dev 1.038


asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3400 / 87
p0 53.91 ± 0.04168
60
58
56
54
52
50
48

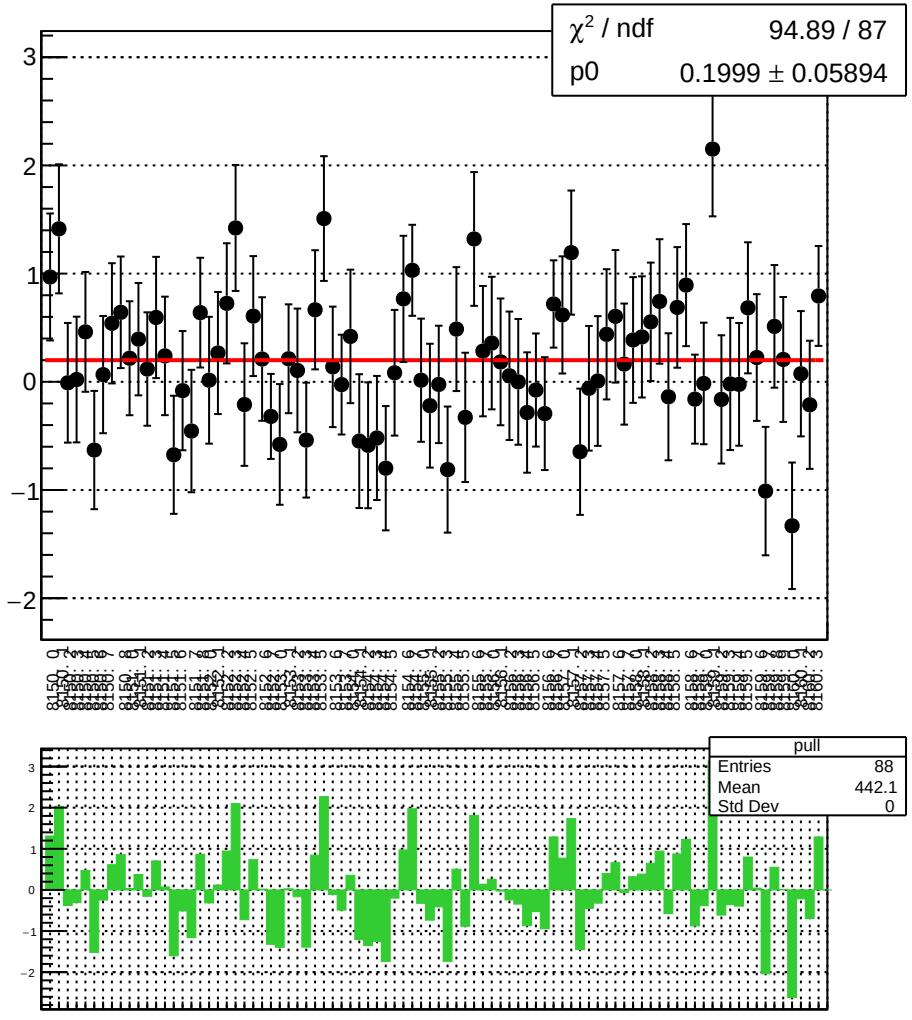

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.67 / 87
p0 −6.794e−06 ± 1.627e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean −514.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.005022
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

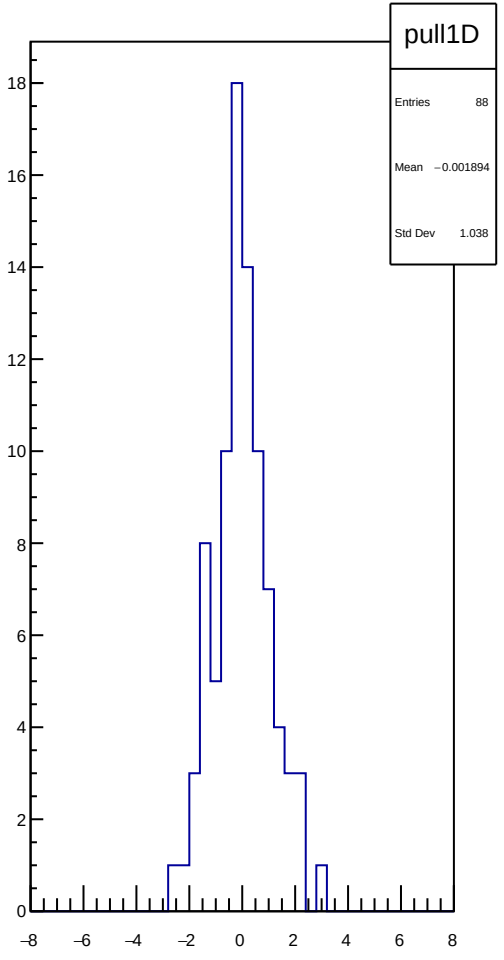

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2060 / 87
p0 0.001488 ± 1.15e−06
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135

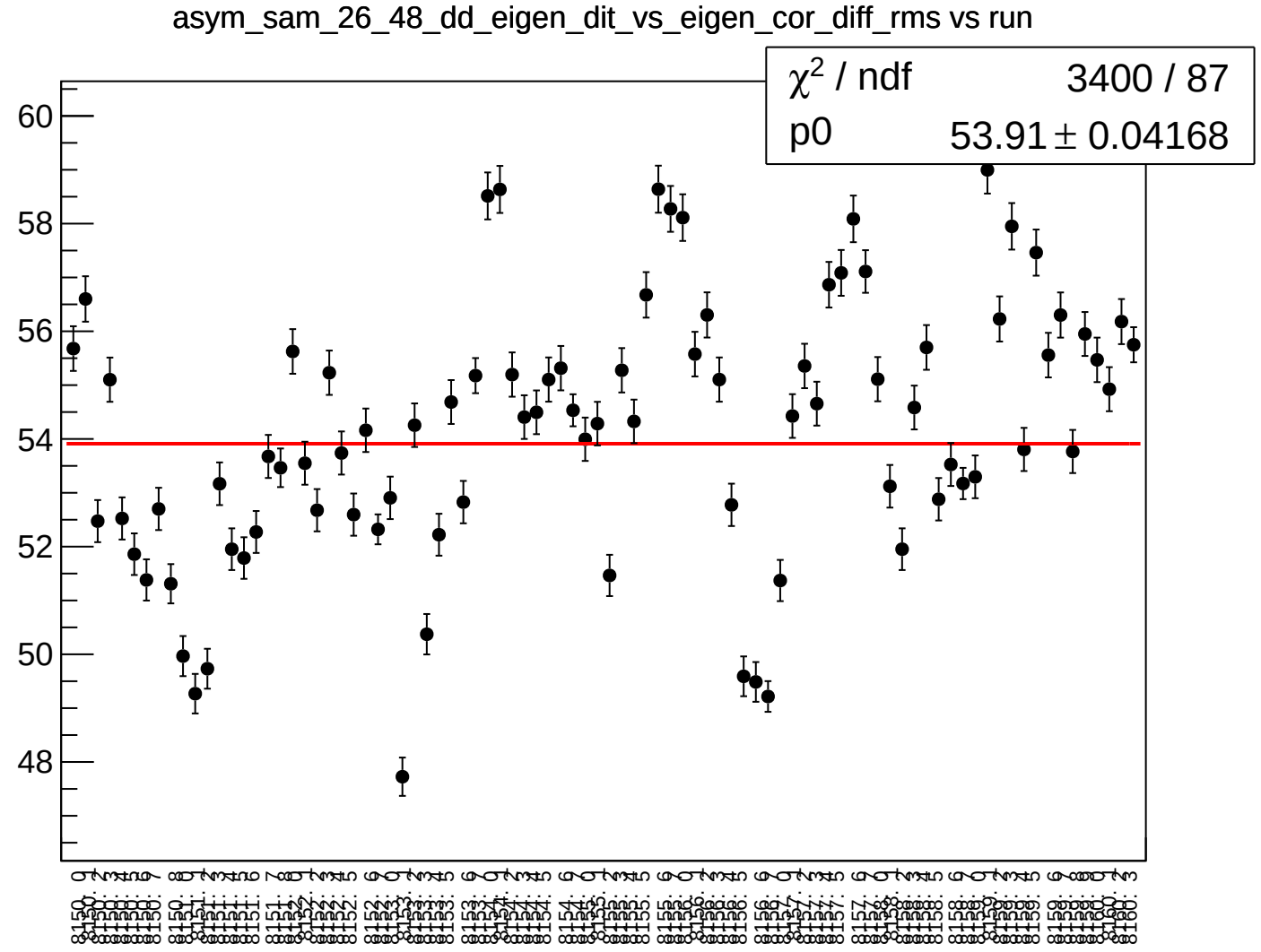

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.89 / 87
p0 0.1999 ± 0.05894
pull
Entries 88
Mean 442.1
Std Dev 0
pull1D
Entries 88
Mean −0.001894
Std Dev 1.038

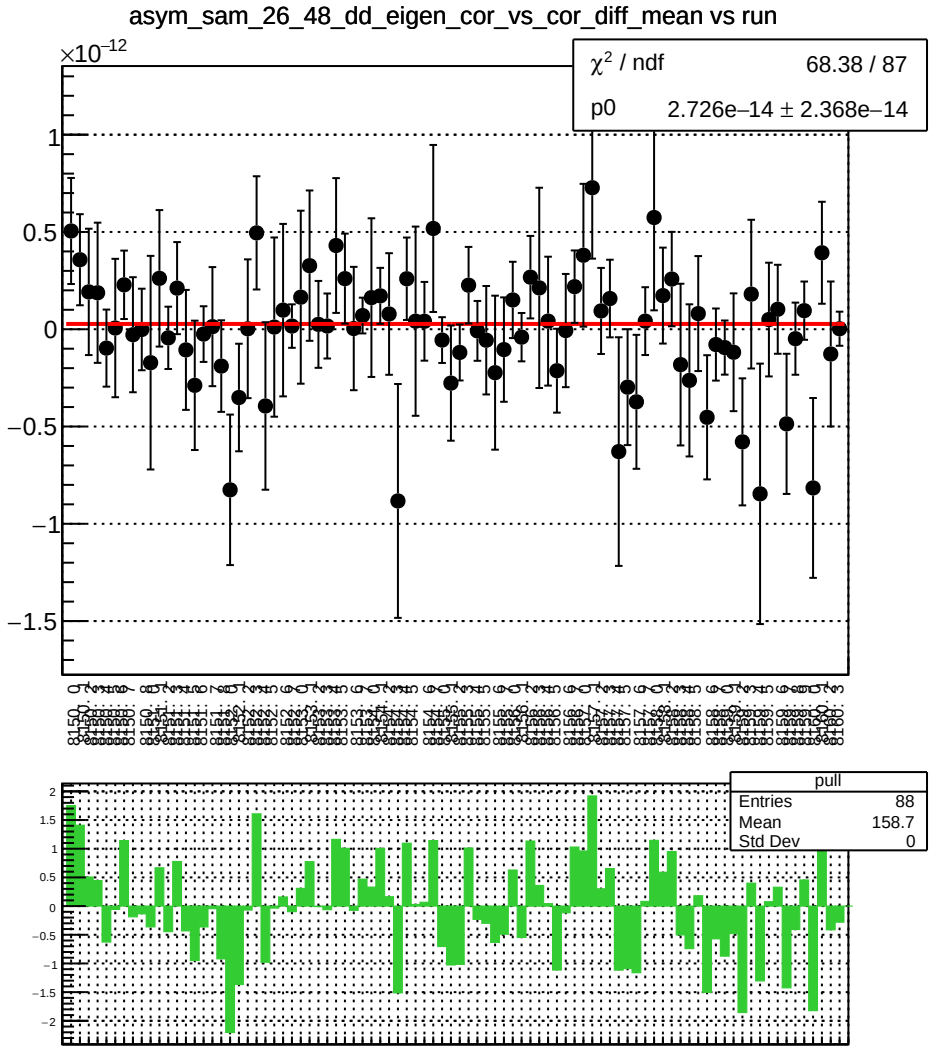

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3400 / 87
p0 53.91 ± 0.04168
60
58
56
54
52
50
48

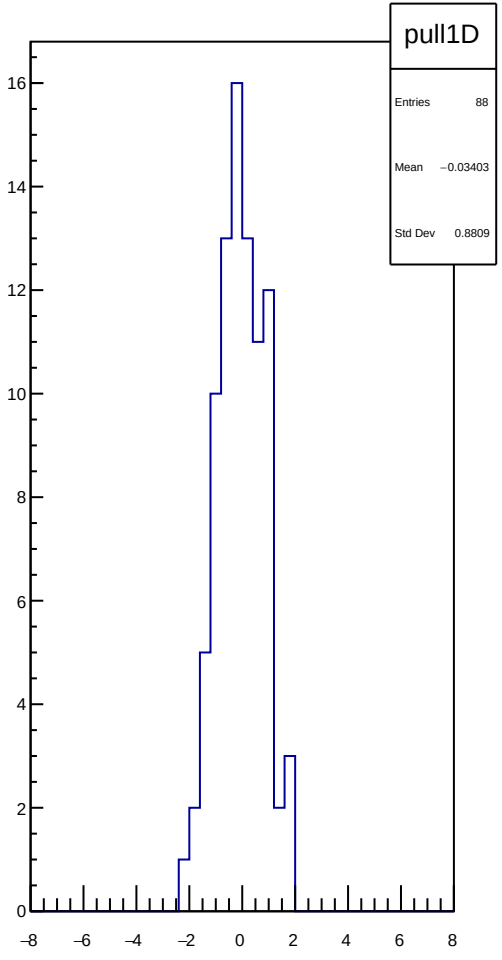
asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

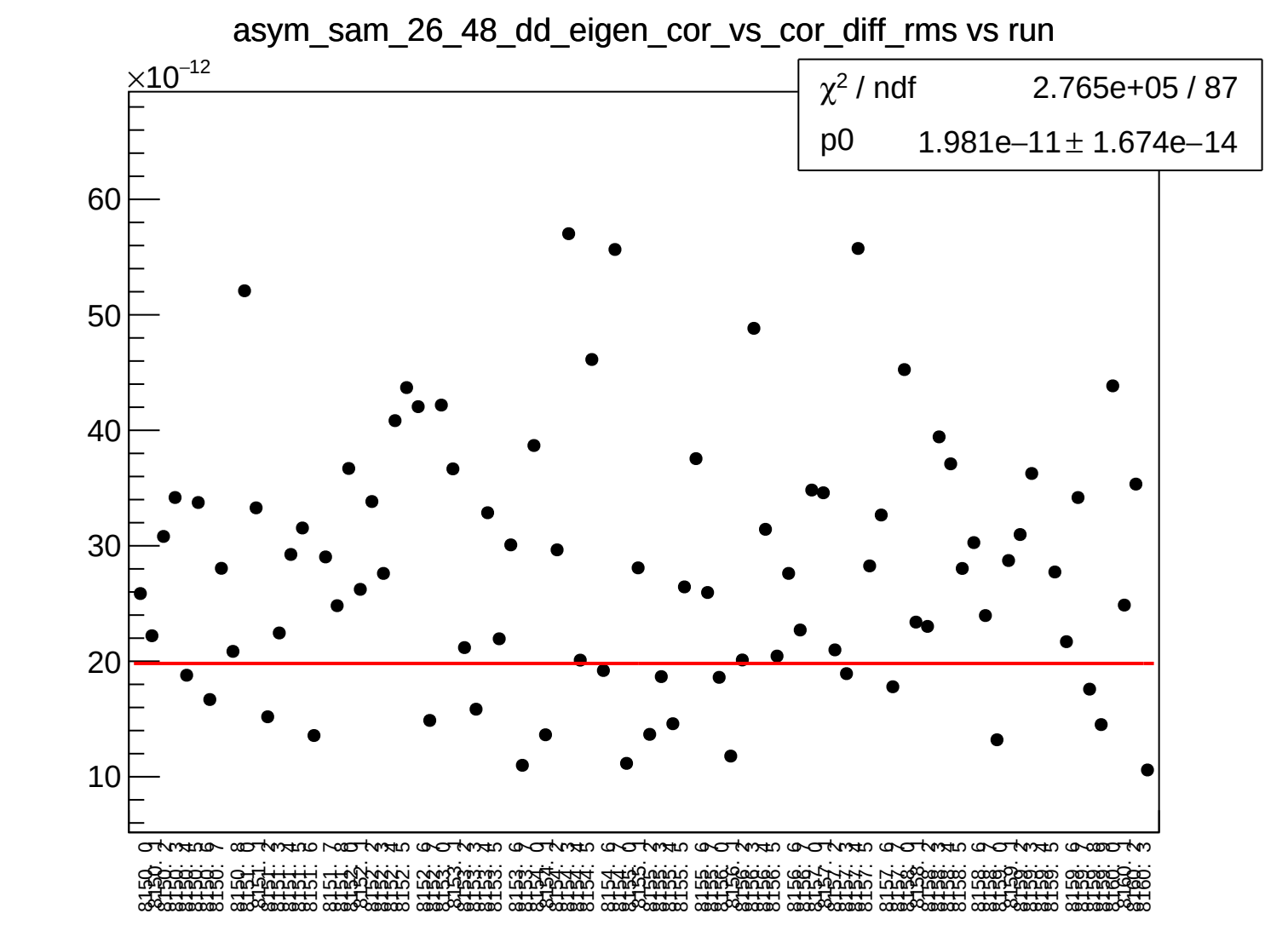


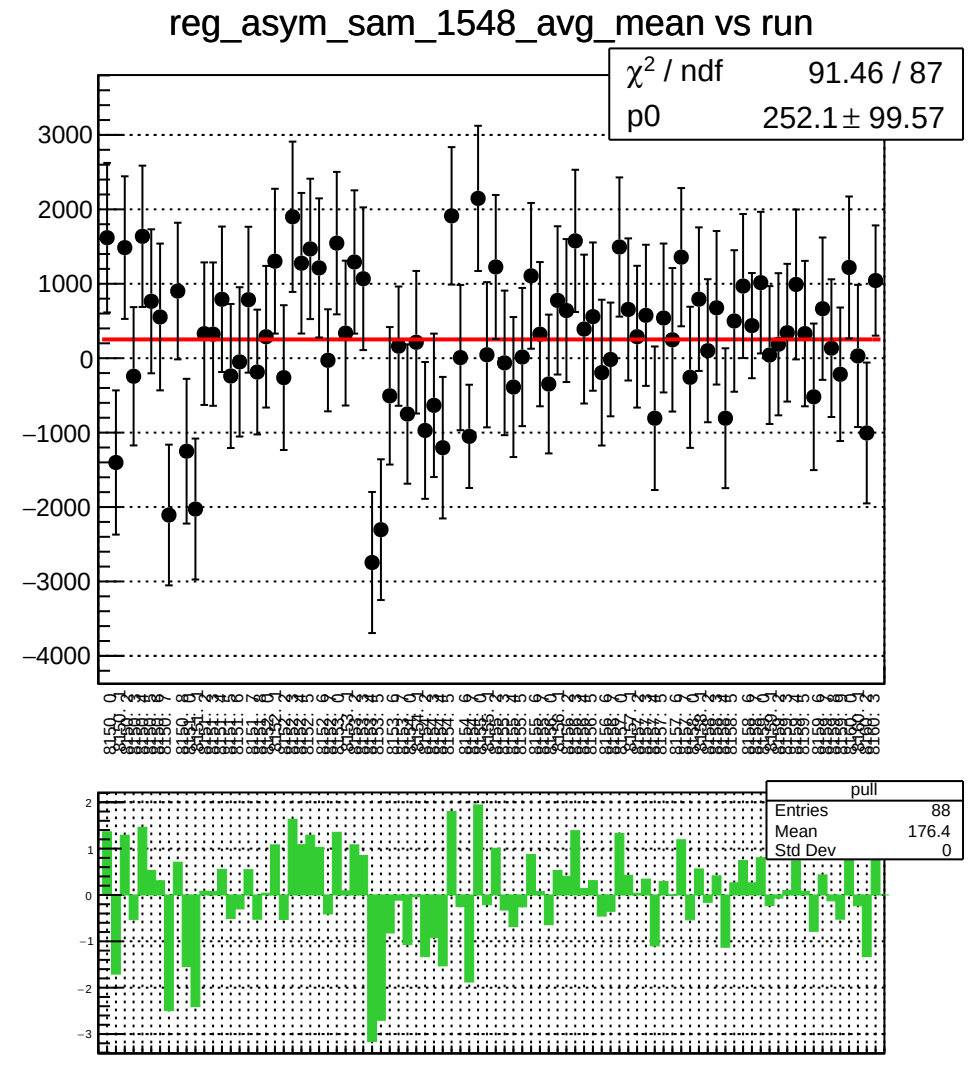


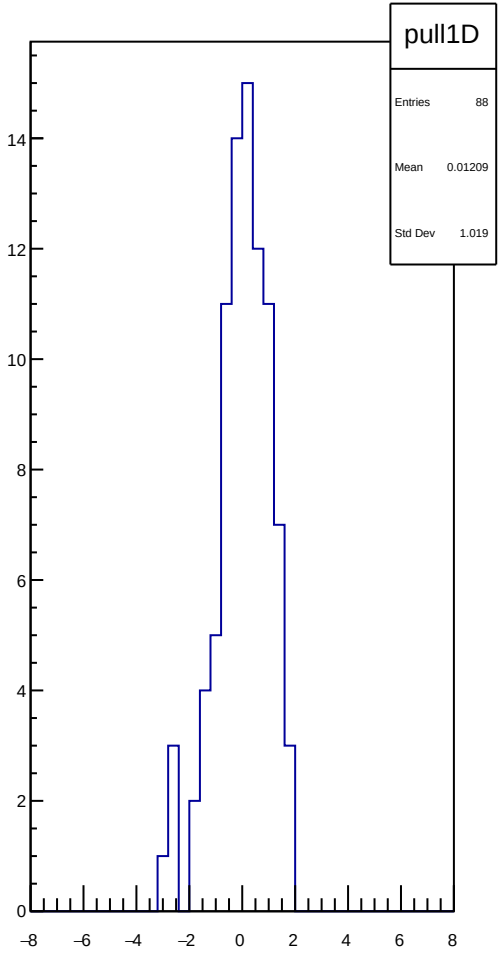

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3400 / 87
p0 53.91 ± 0.04168
60
58
56
54
52
50
48

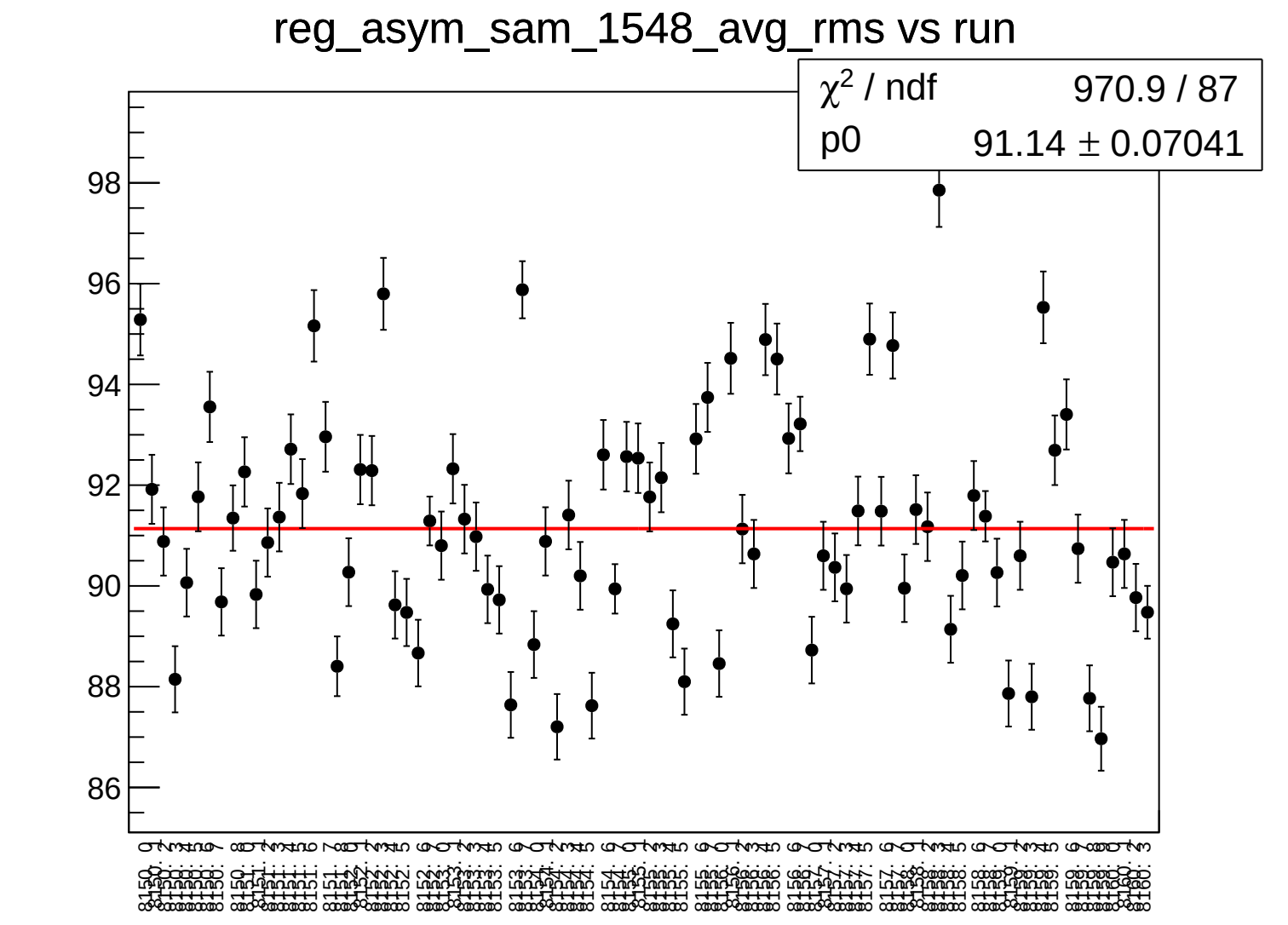

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.38 / 87
p0 2.726e−14 ± 2.368e−14
pull
Entries 88
Mean 158.7
Std Dev 0

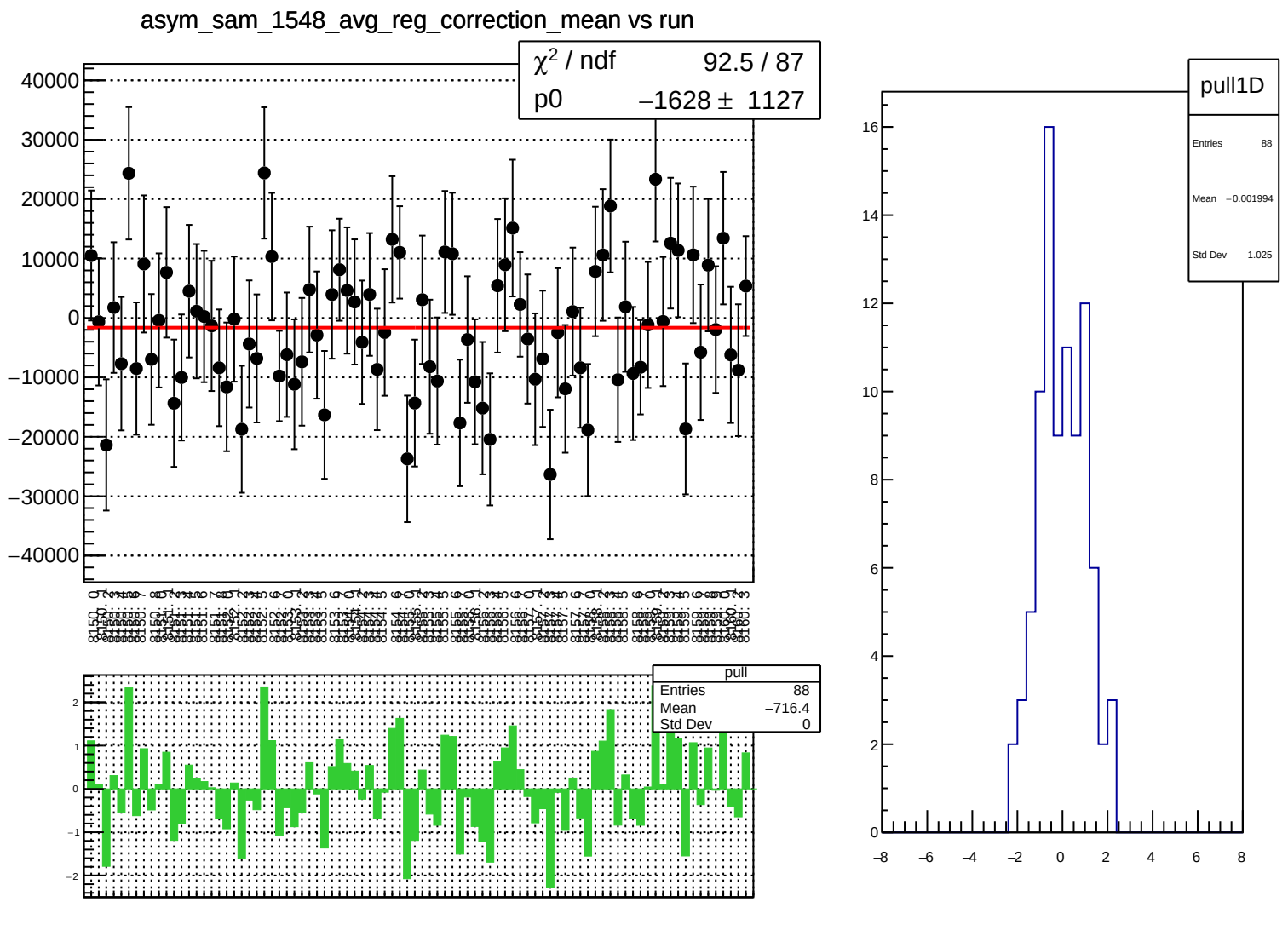

pull1D
Entries 88
Mean −0.03403
Std Dev 0.8809

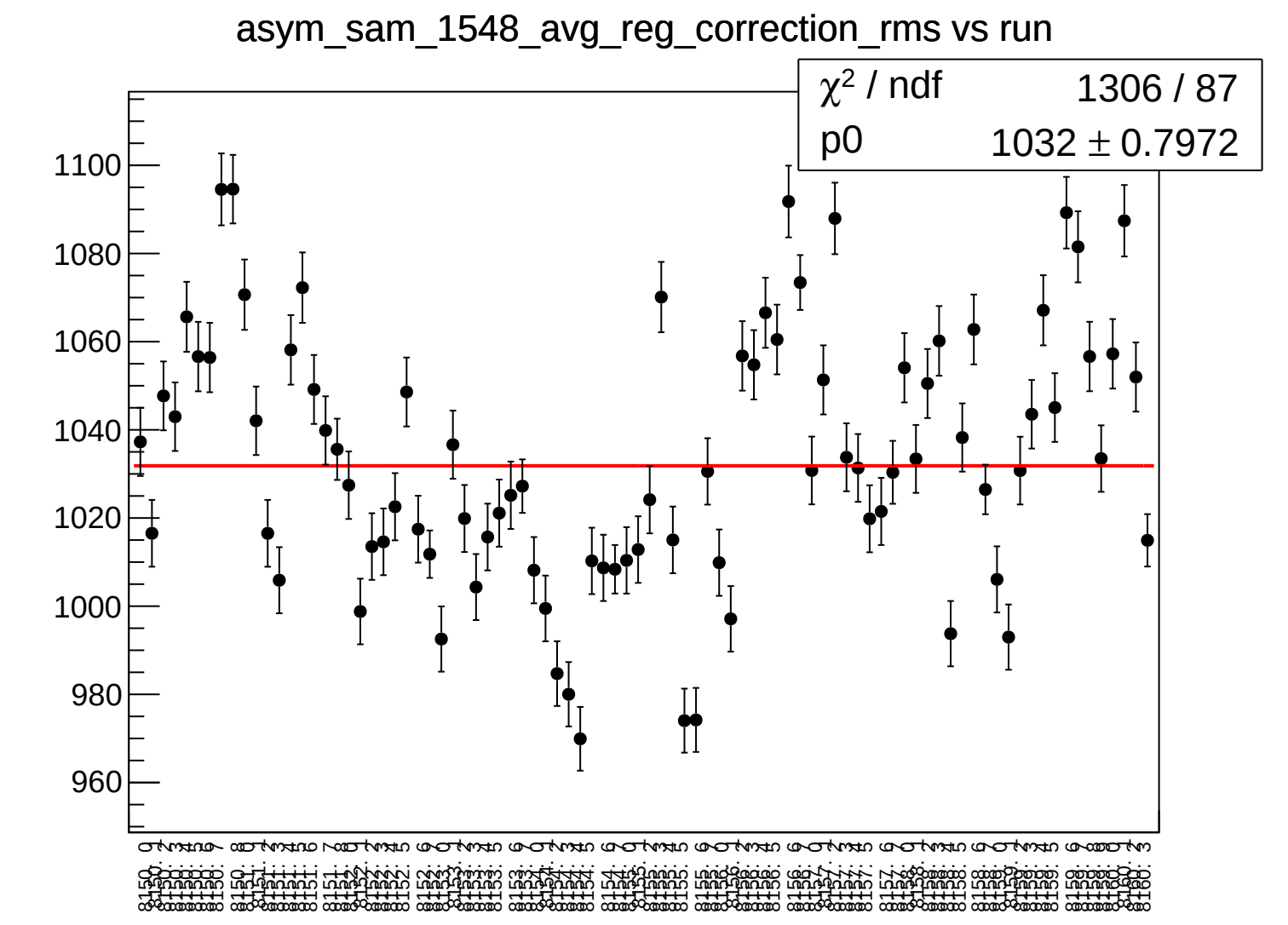

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.765e+05 / 87
p0 1.981e−11 ± 1.674e−14
60
50
40
30
20
10

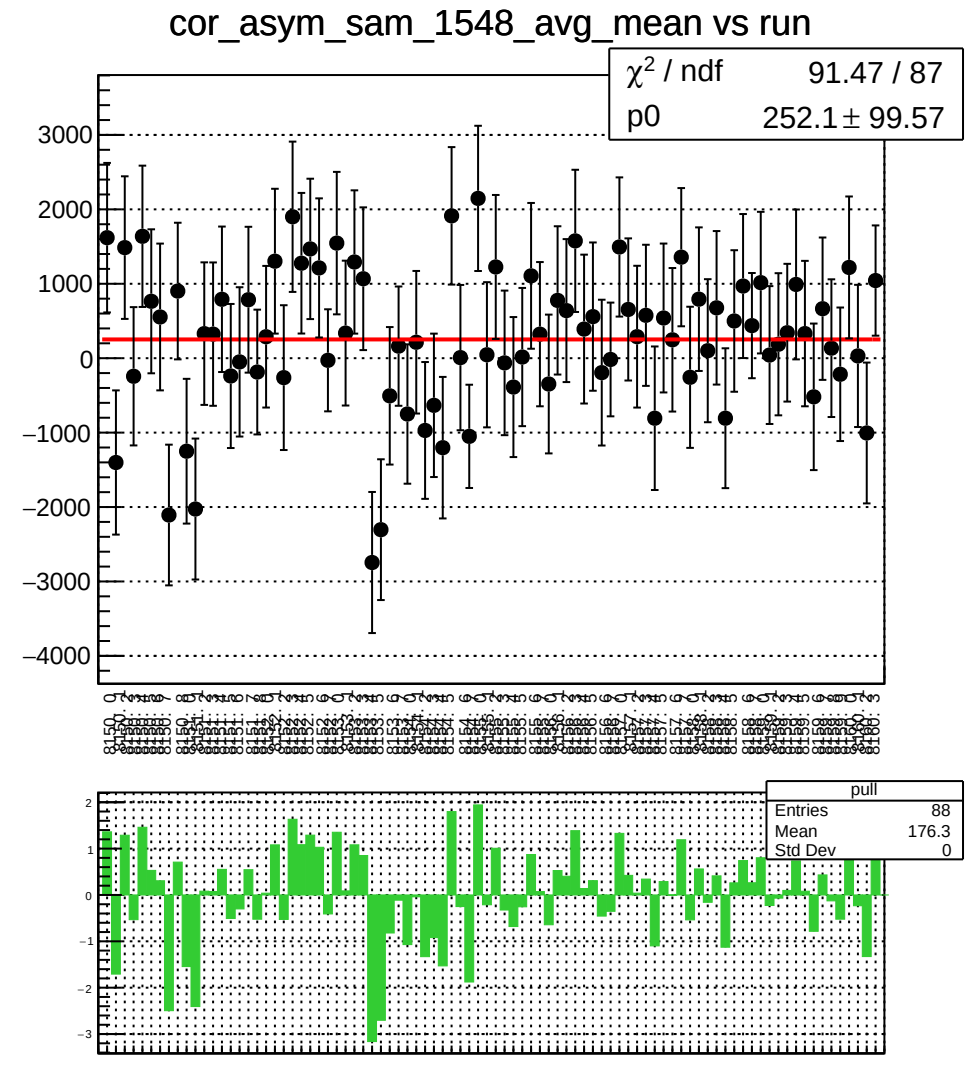

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 91.46 / 87
p0 252.1 ± 99.57
pull
Entries 88
Mean 176.4
Std Dev 0

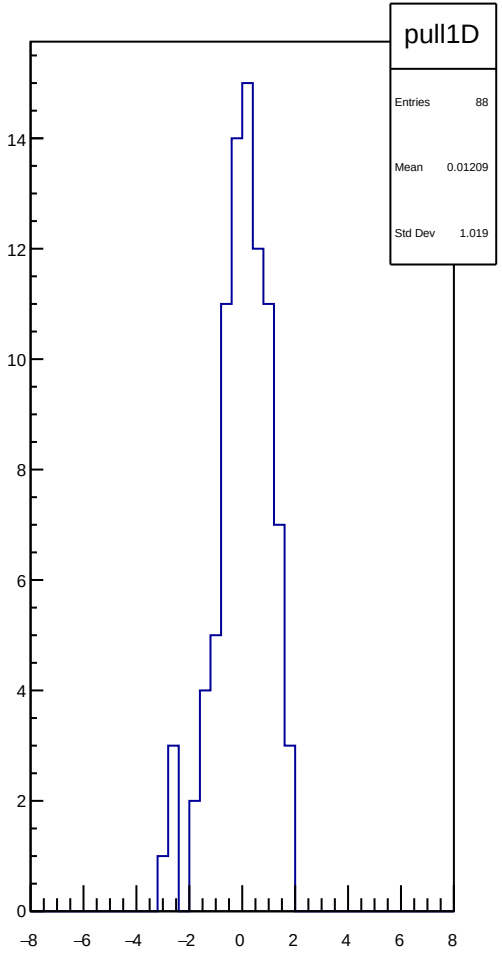

pull1D
Entries 88
Mean 0.01209
Std Dev 1.019

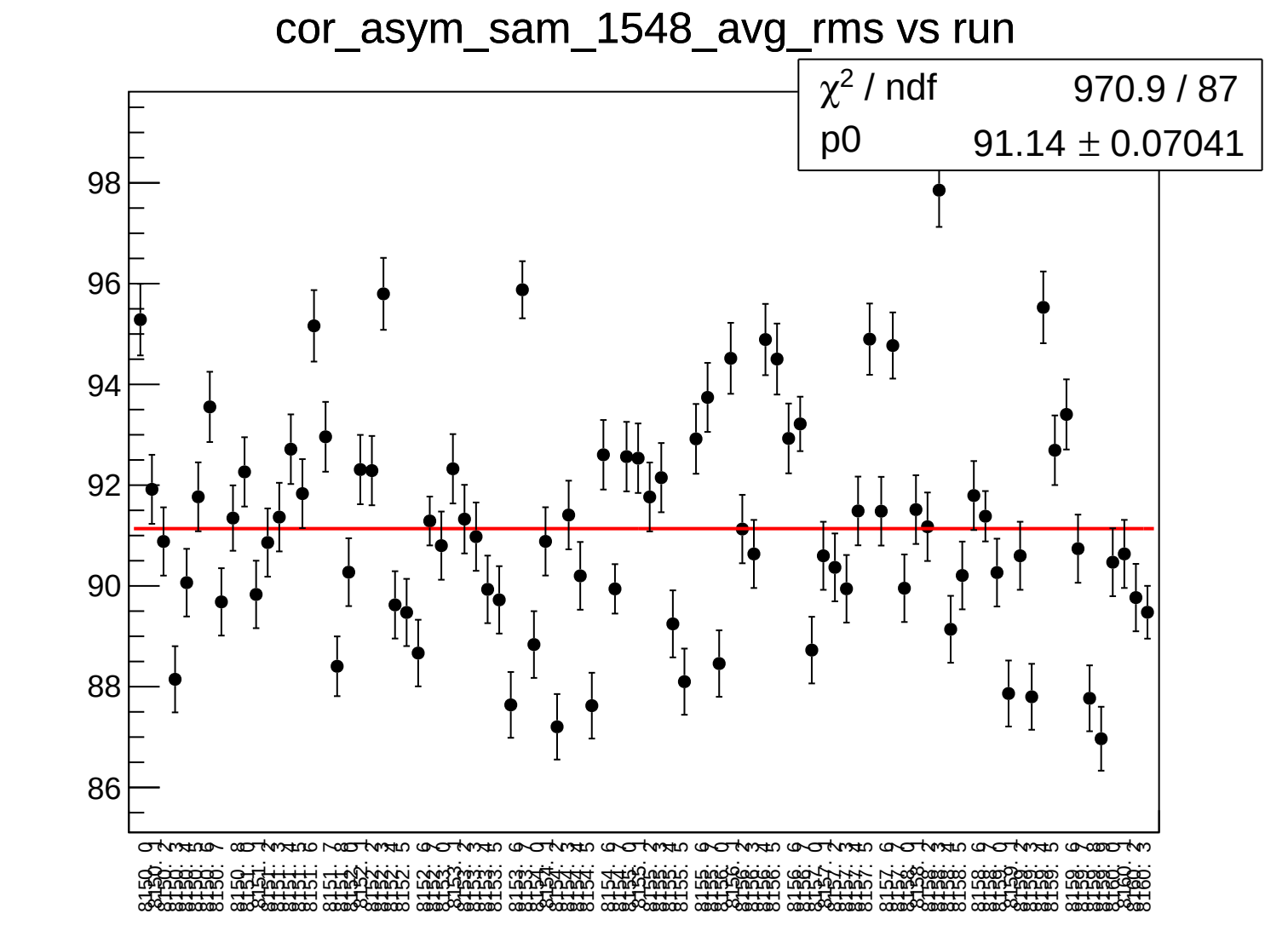

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 970.9 / 87
p0 91.14 ± 0.07041
98
96
94
92
90
88
86

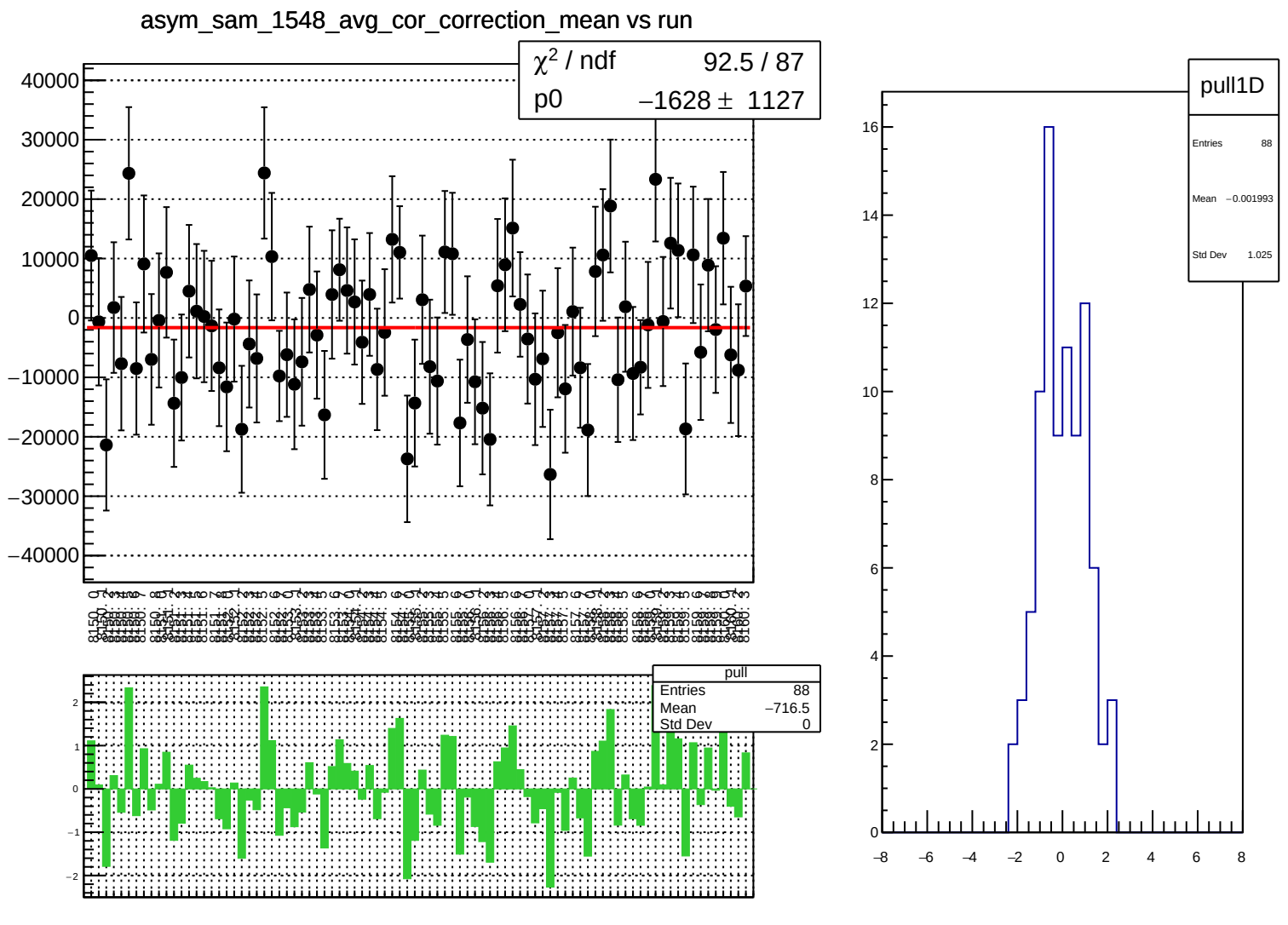

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 92.5 / 87
p0 −1628 ± 1127
pull
Entries 88
Mean −716.4
Std Dev 0
pull1D
Entries 88
Mean −0.001994
Std Dev 1.025

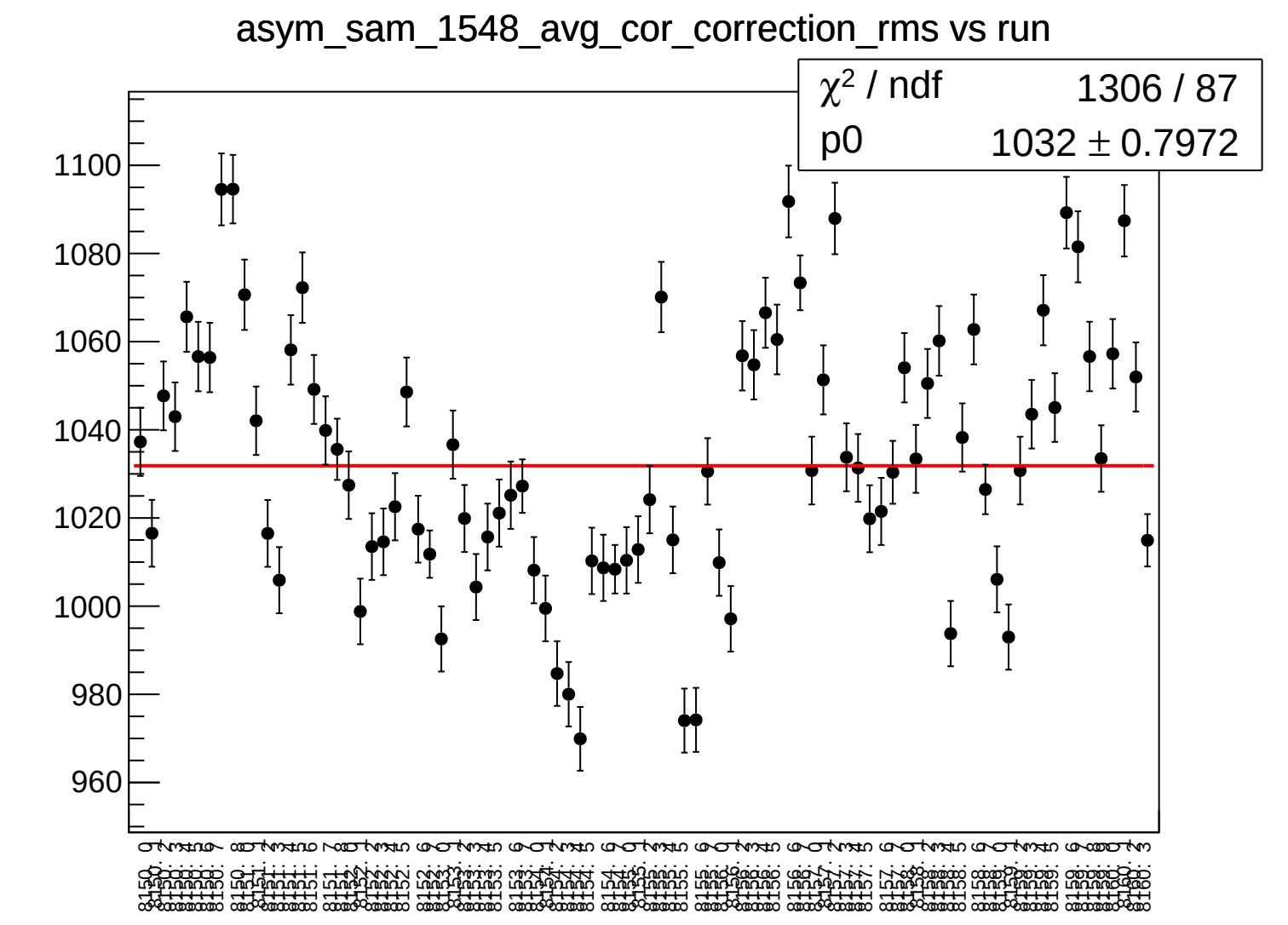

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1306 / 87
p0 1032 ± 0.7972
1100
1080
1060
1040
1020
1000
980
960

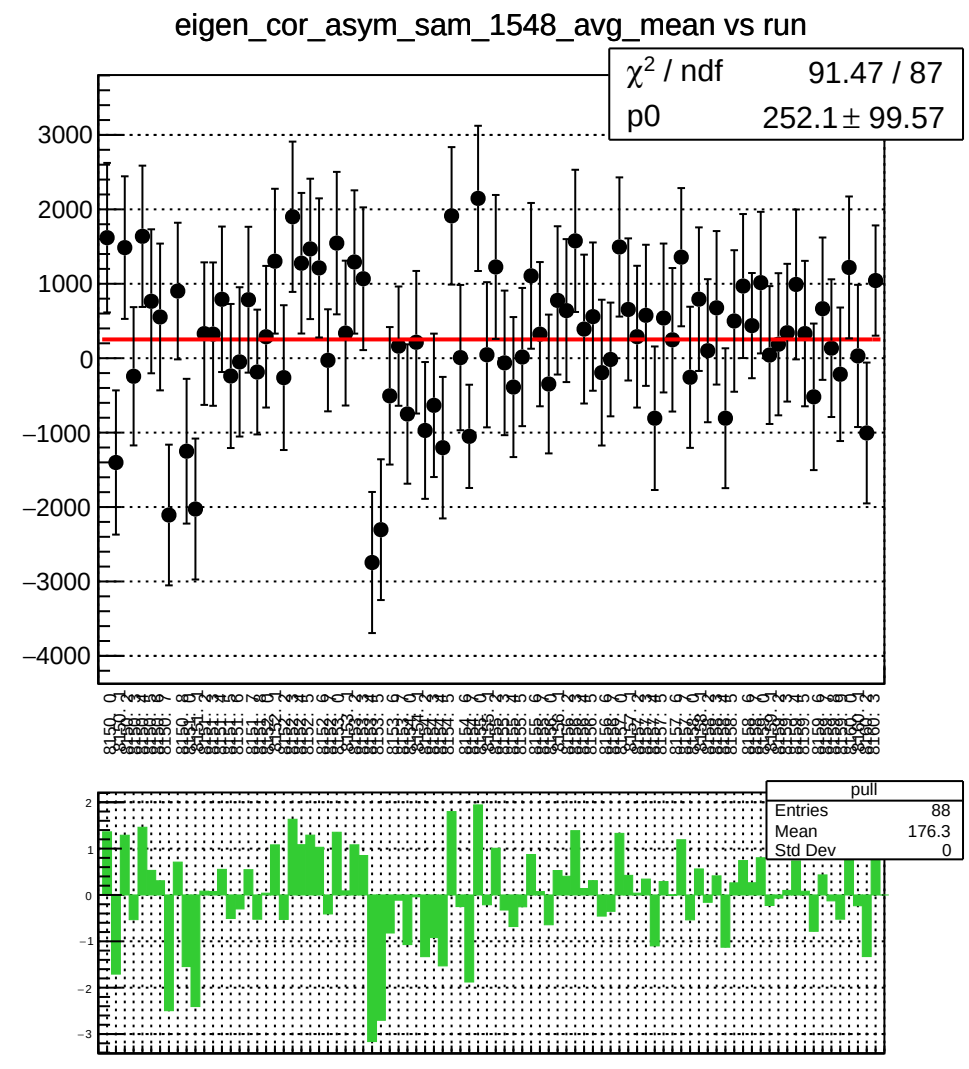

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 91.47 / 87
p0 252.1 ± 99.57
pull
Entries 88
Mean 176.3
Std Dev 0

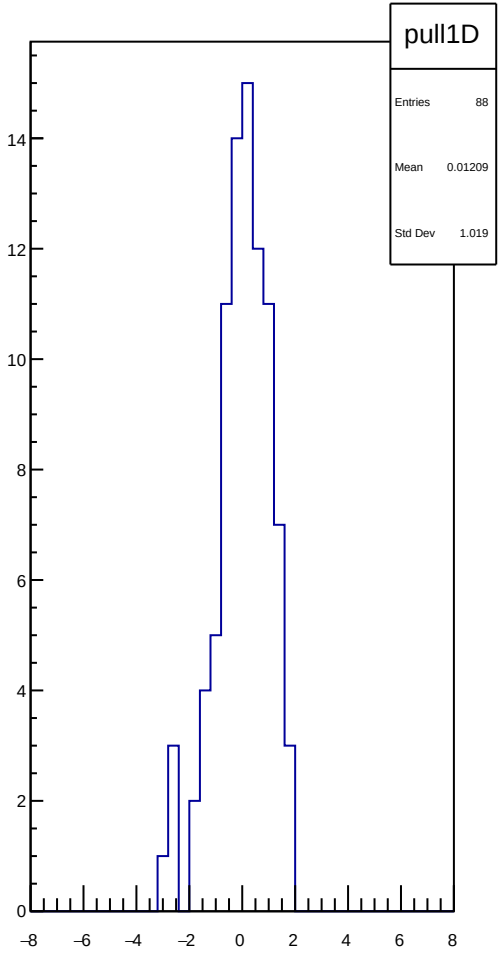

pull1D
Entries 88
Mean 0.01209
Std Dev 1.019

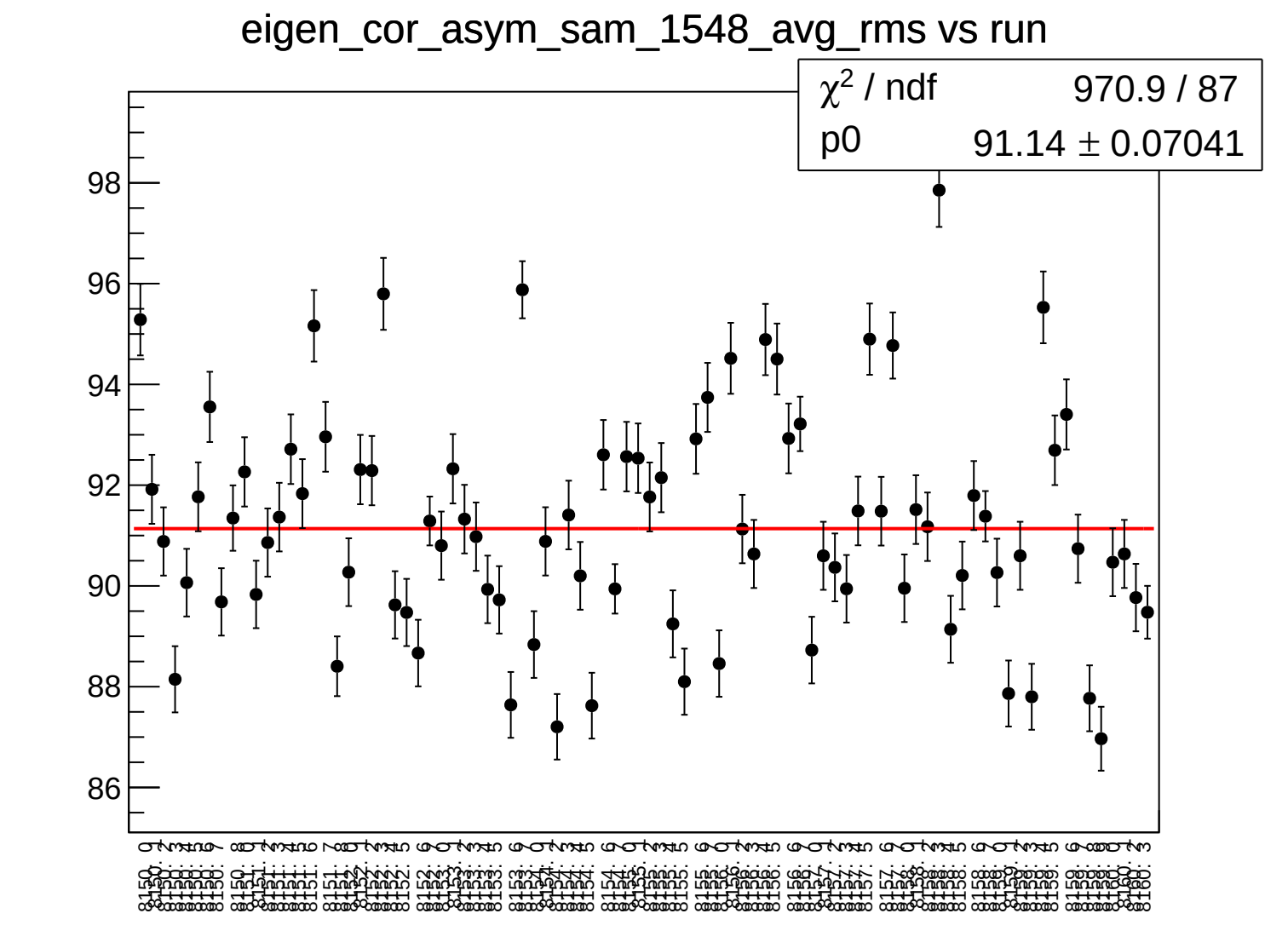

cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 970.9 / 87
p0 91.14 ± 0.07041
98
96
94
92
90
88
86

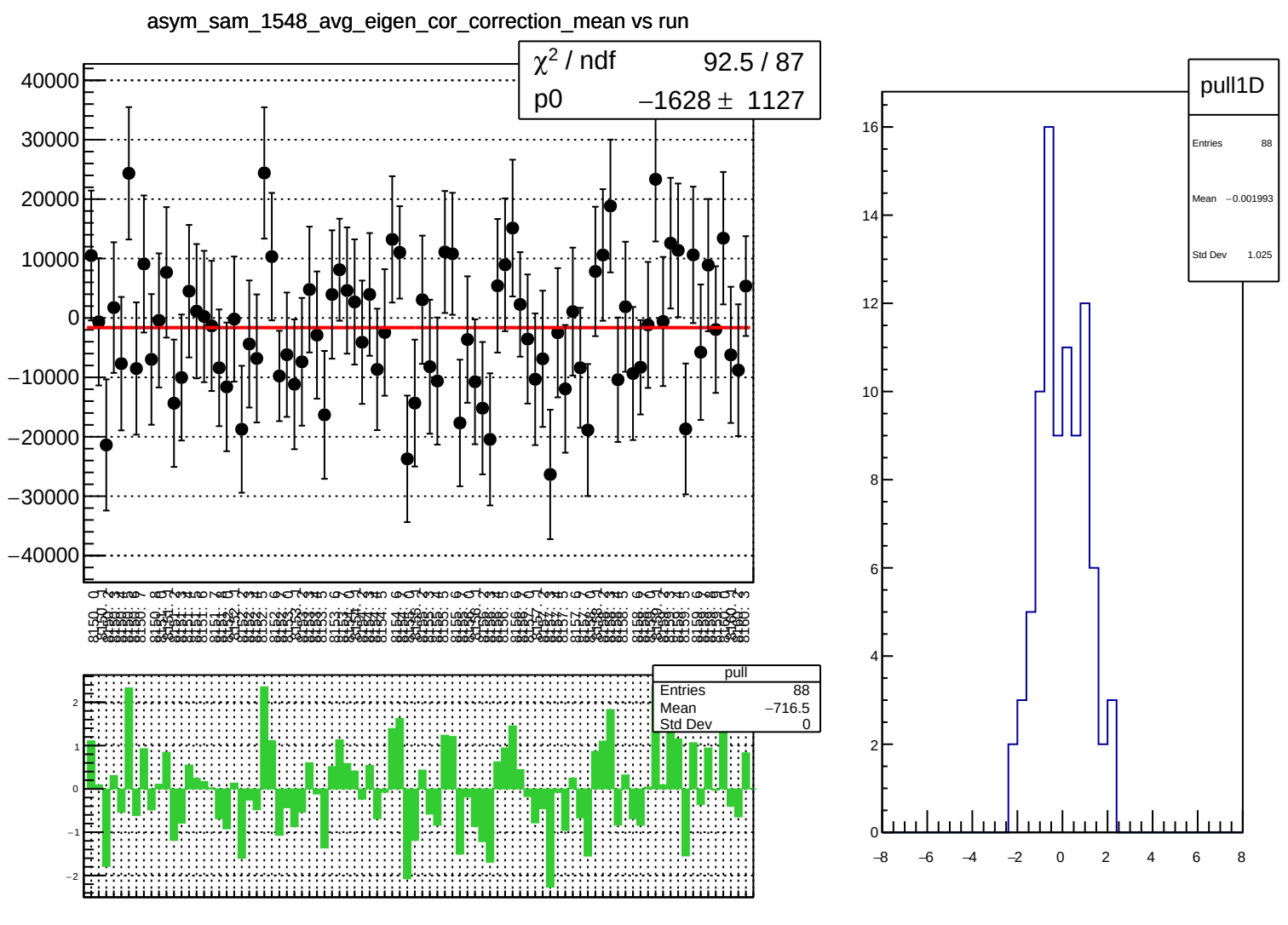

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 92.5 / 87
p0 −1628 ± 1127
pull
Entries 88
Mean −716.5
Std Dev 0
pull1D
Entries 88
Mean −0.001993
Std Dev 1.025

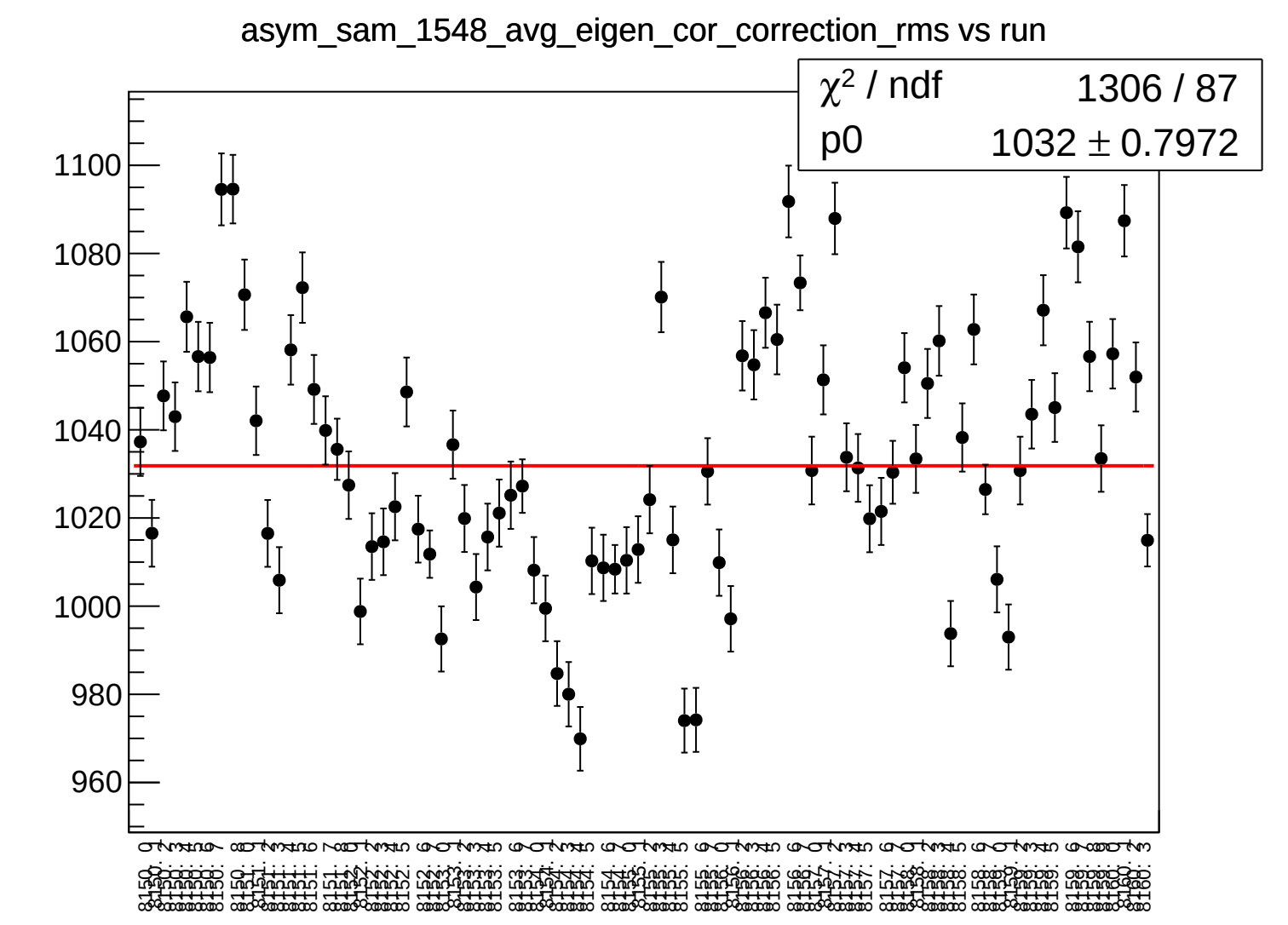

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1306 / 87
p0 1032 ± 0.7972
1100
1080
1060
1040
1020
1000
980
960

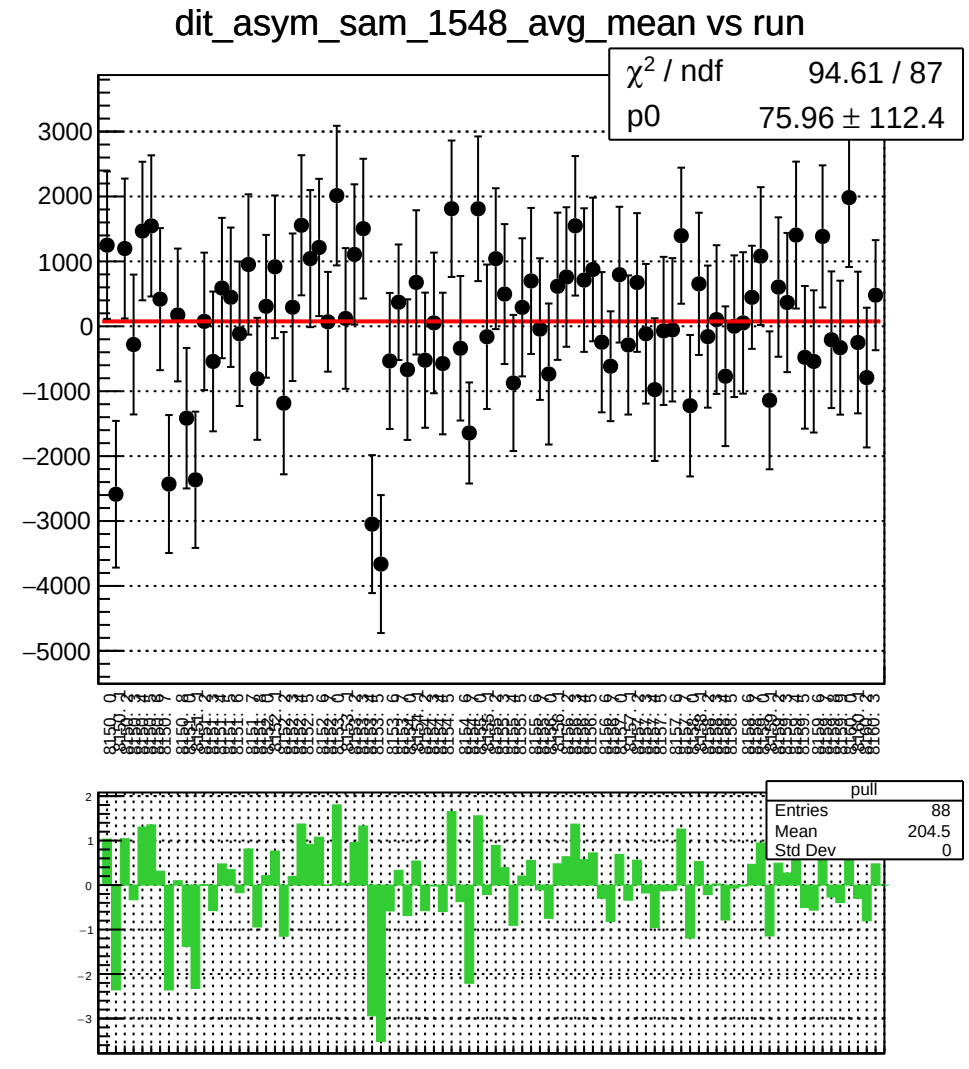

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 91.47 / 87
p0 252.1 ± 99.57
pull
Entries 88
Mean 176.3
Std Dev 0

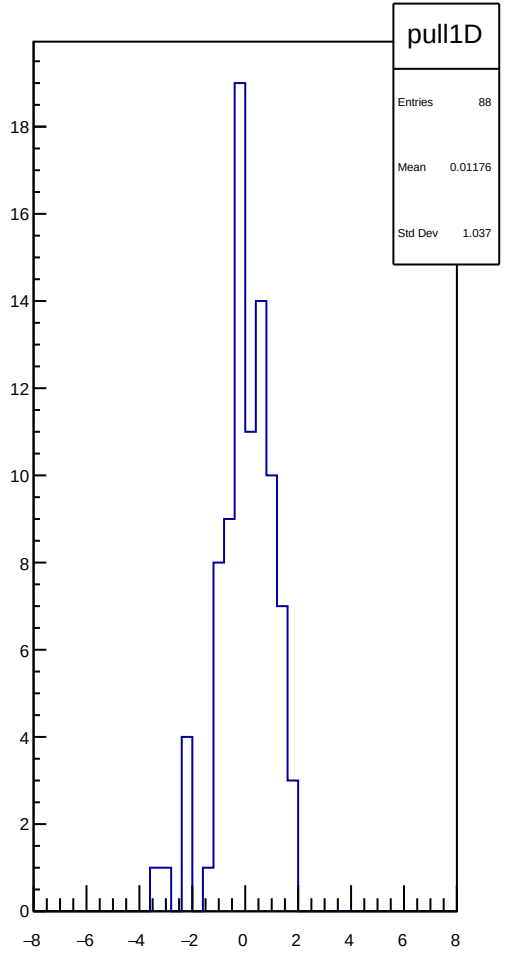

pull1D
Entries 88
Mean 0.01209
Std Dev 1.019

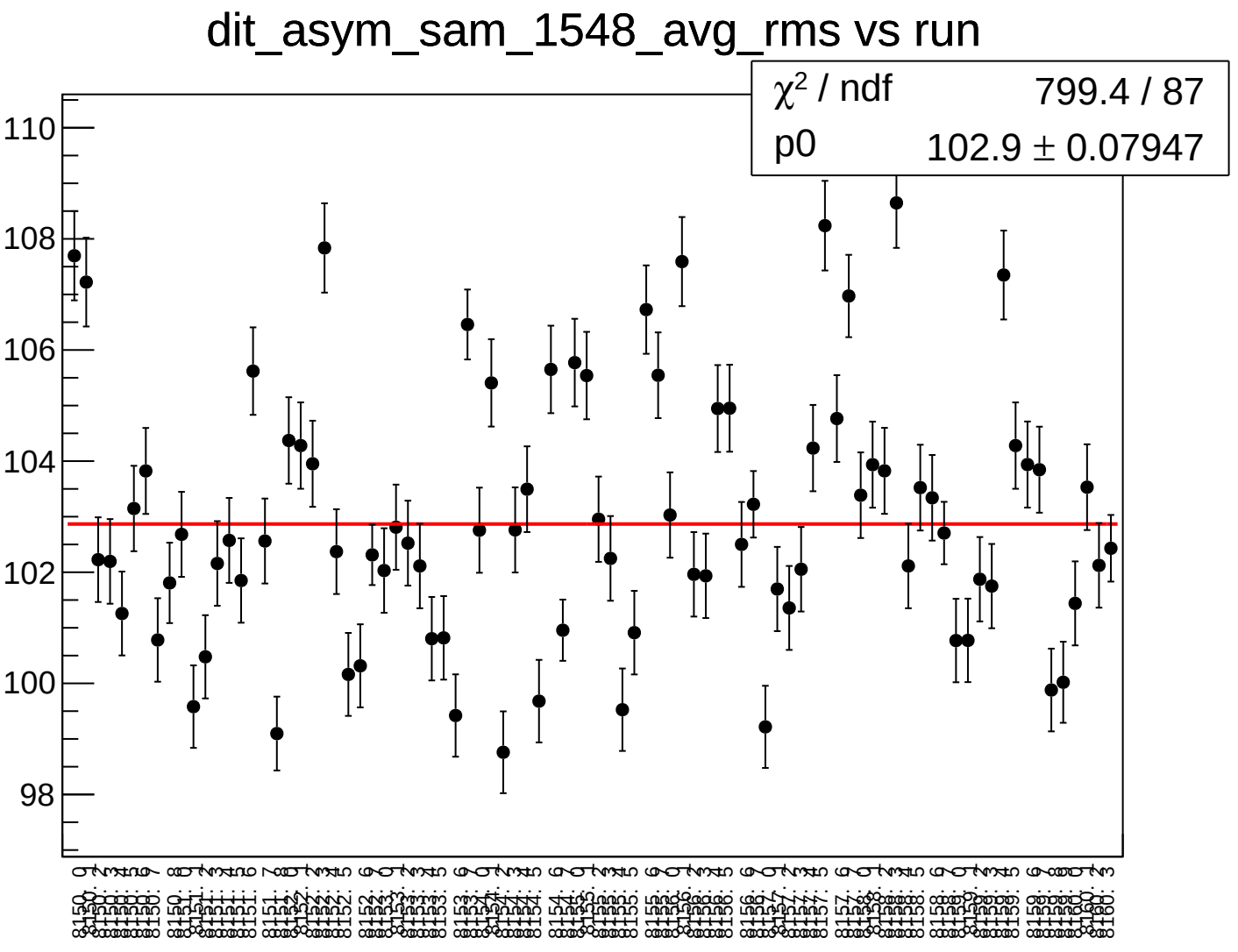

eigen_cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 970.9 / 87
p0 91.14 ± 0.07041
98
96
94
92
90
88
86

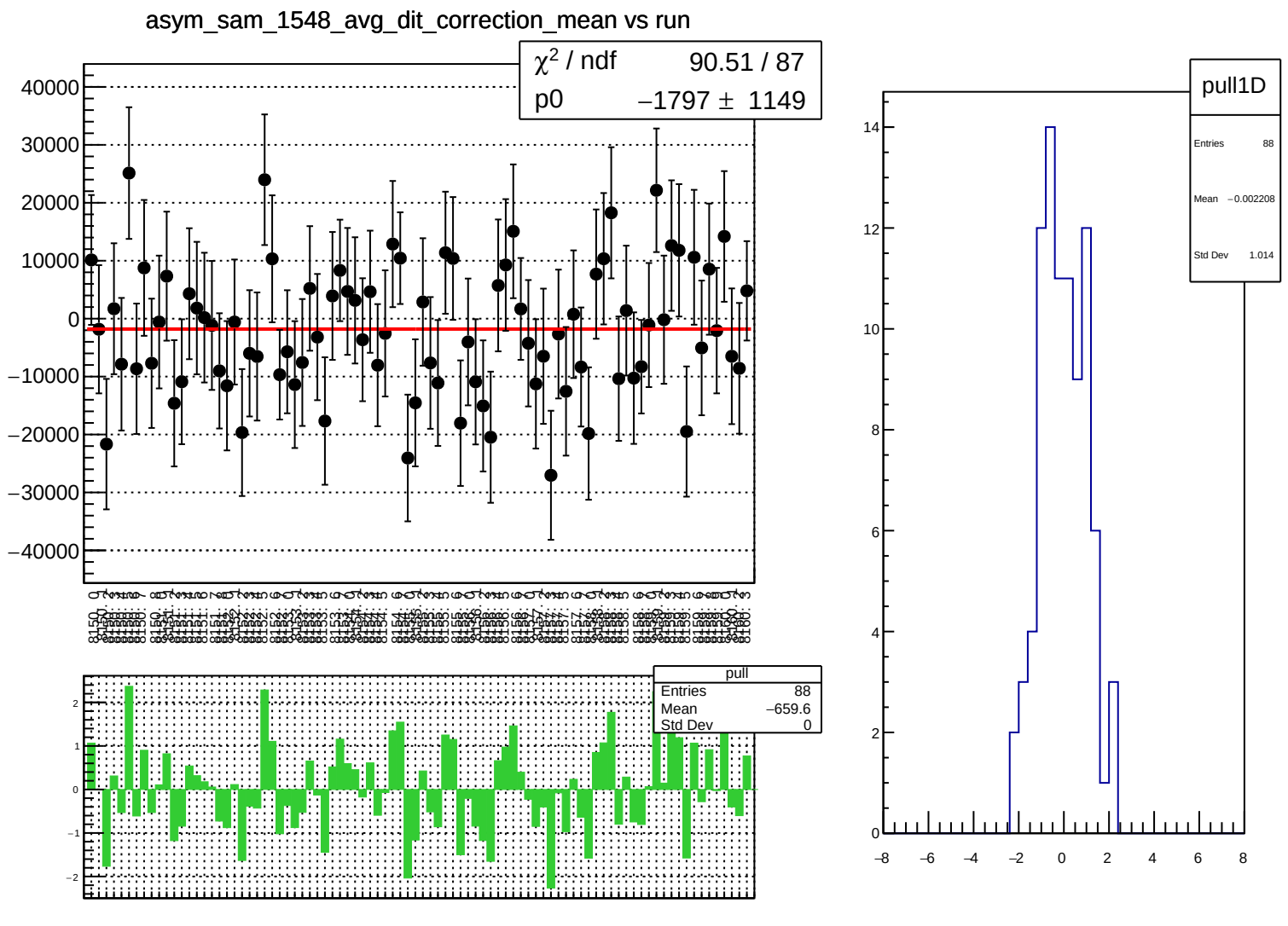

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.5 / 87
p0 −1628 ± 1127
pull
Entries 88
Mean −716.5
Std Dev 0
pull1D
Entries 88
Mean −0.001993
Std Dev 1.025

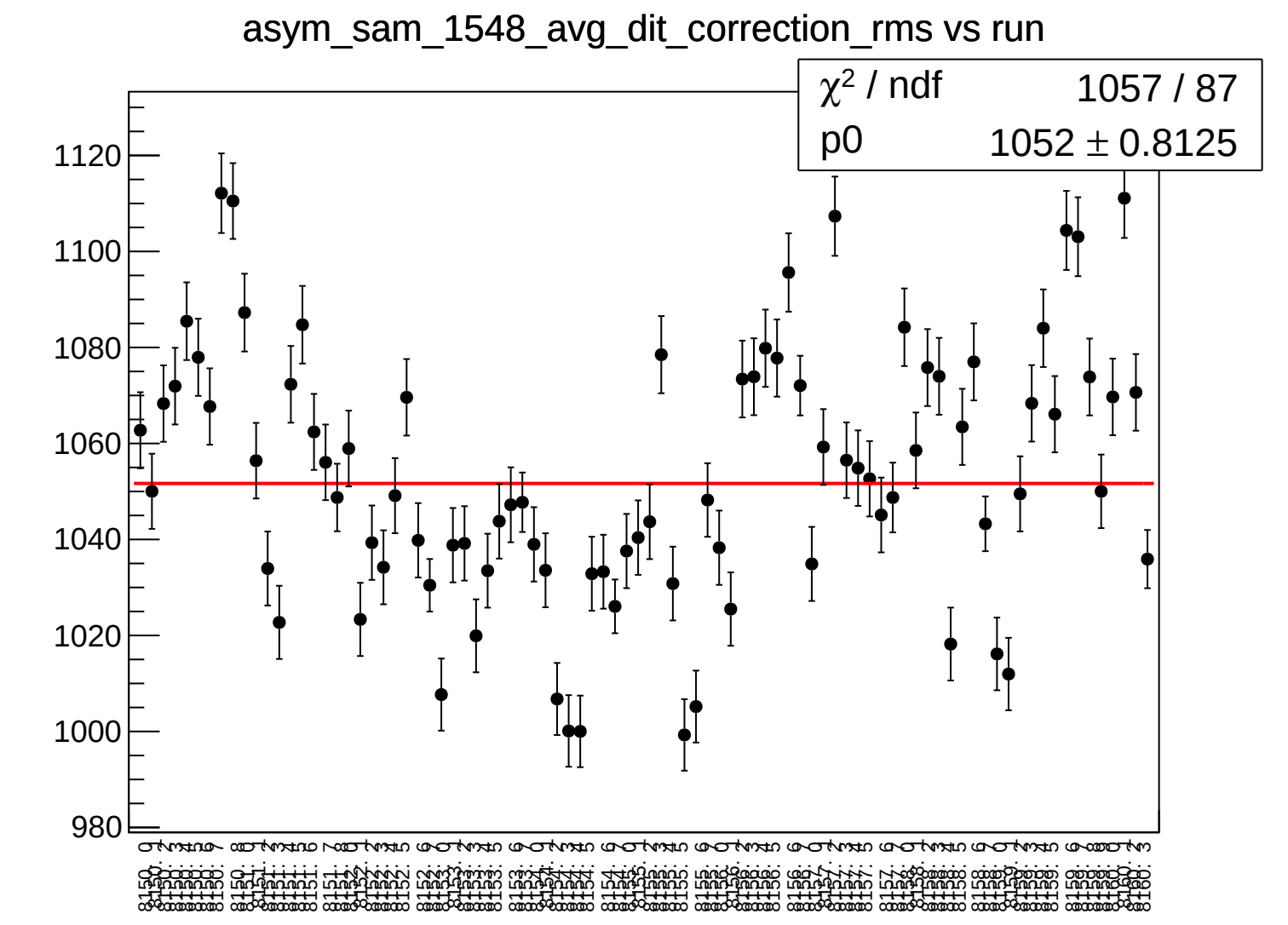

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1306 / 87
p0 1032 ± 0.7972
1100
1080
1060
1040
1020
1000
980
960

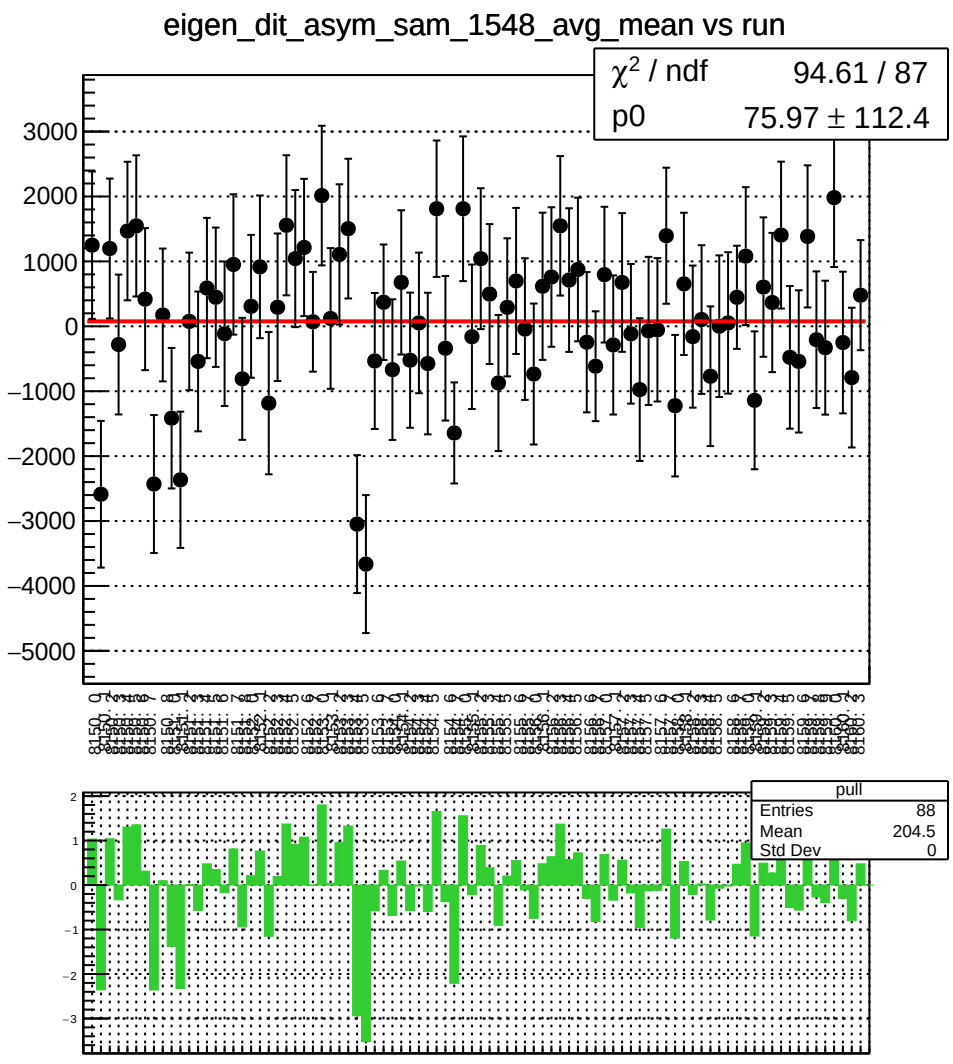

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 94.61 / 87
p0 75.96 ± 112.4
pull
Entries 88
Mean 204.5
Std Dev 0

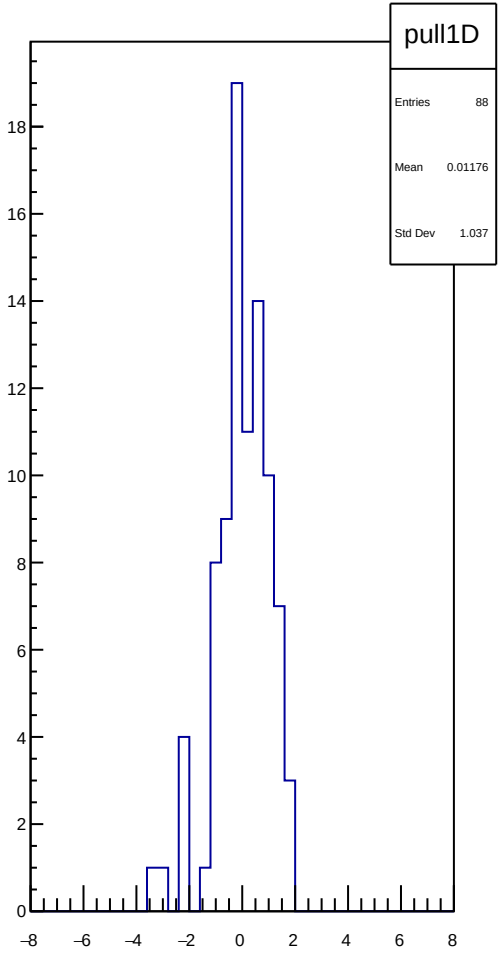

pull1D
Entries 88
Mean 0.01176
Std Dev 1.037

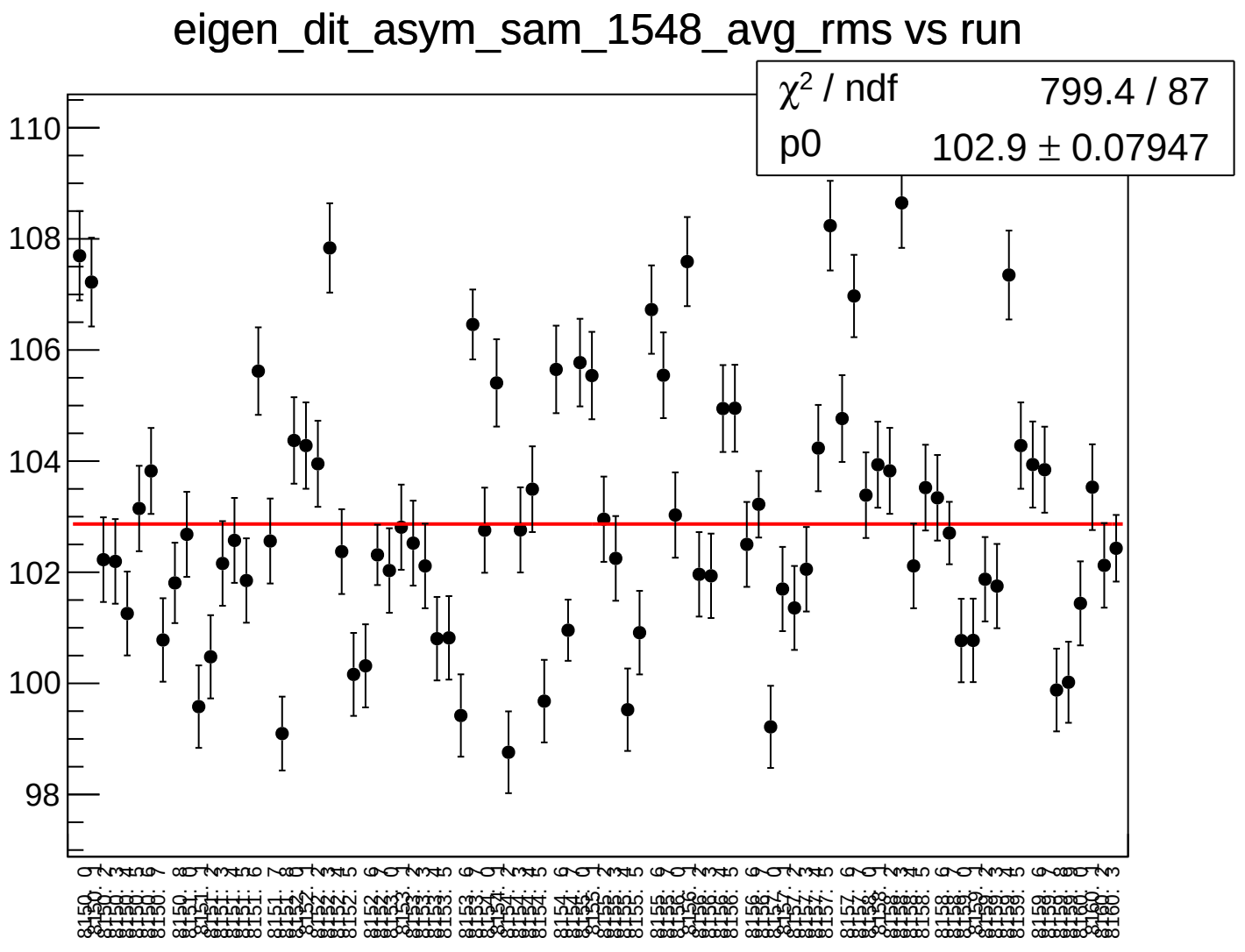

dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 799.4 / 87
p0 102.9 ± 0.07947
110
108
106
104
102
100
98

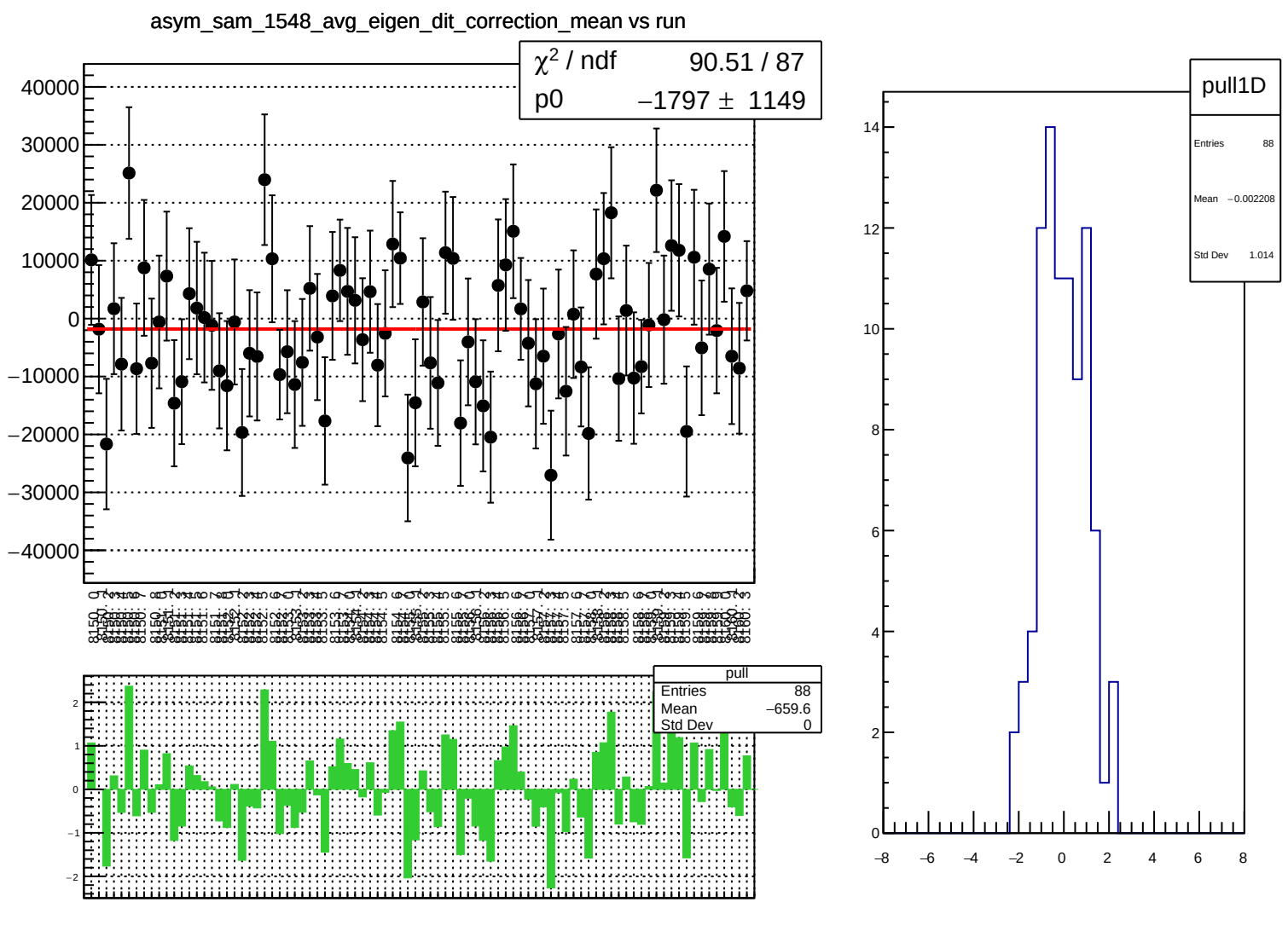

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 90.51 / 87
p0 −1797 ± 1149
pull
Entries 88
Mean −659.6
Std Dev 0
pull1D
Entries 88
Mean −0.002208
Std Dev 1.014

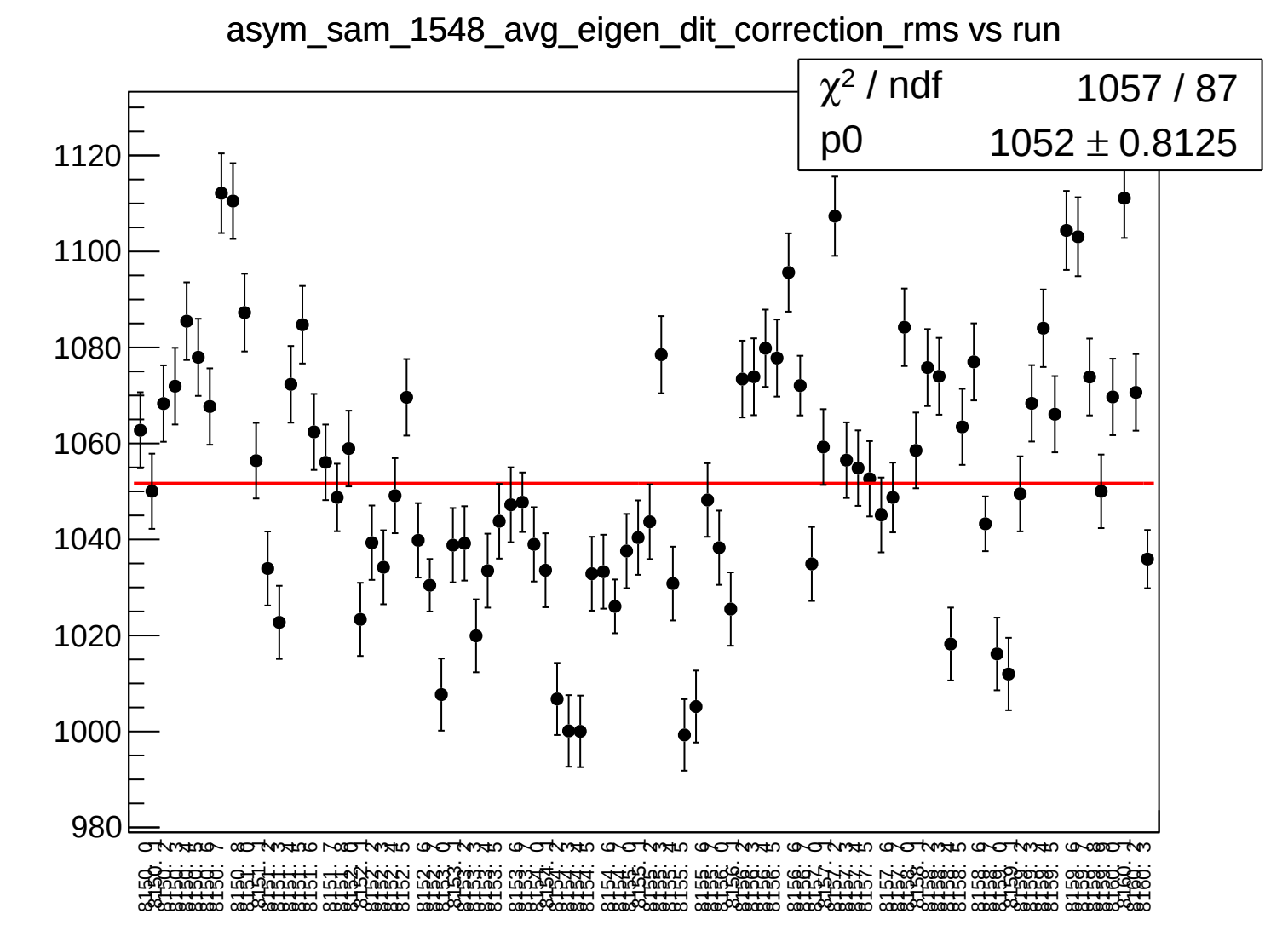

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1057 / 87
p0 1052 ± 0.8125
1120
1100
1080
1060
1040
1020
1000
980

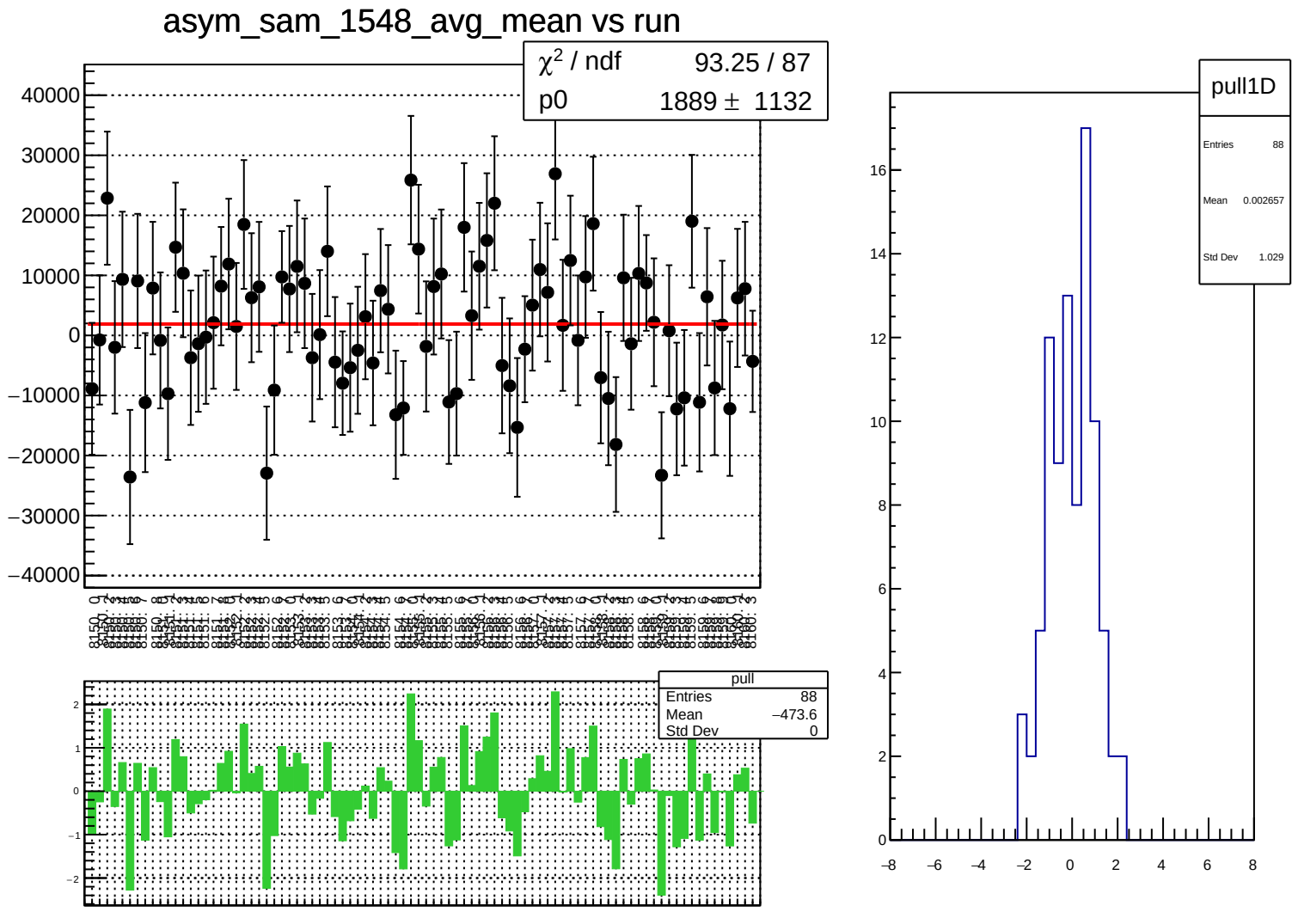

eigen_dit_asym_sam_1548_avg_mean vs run
χ^2 / ndf 94.61 / 87
p0 75.97 ± 112.4
pull
Entries 88
Mean 204.5
Std Dev 0

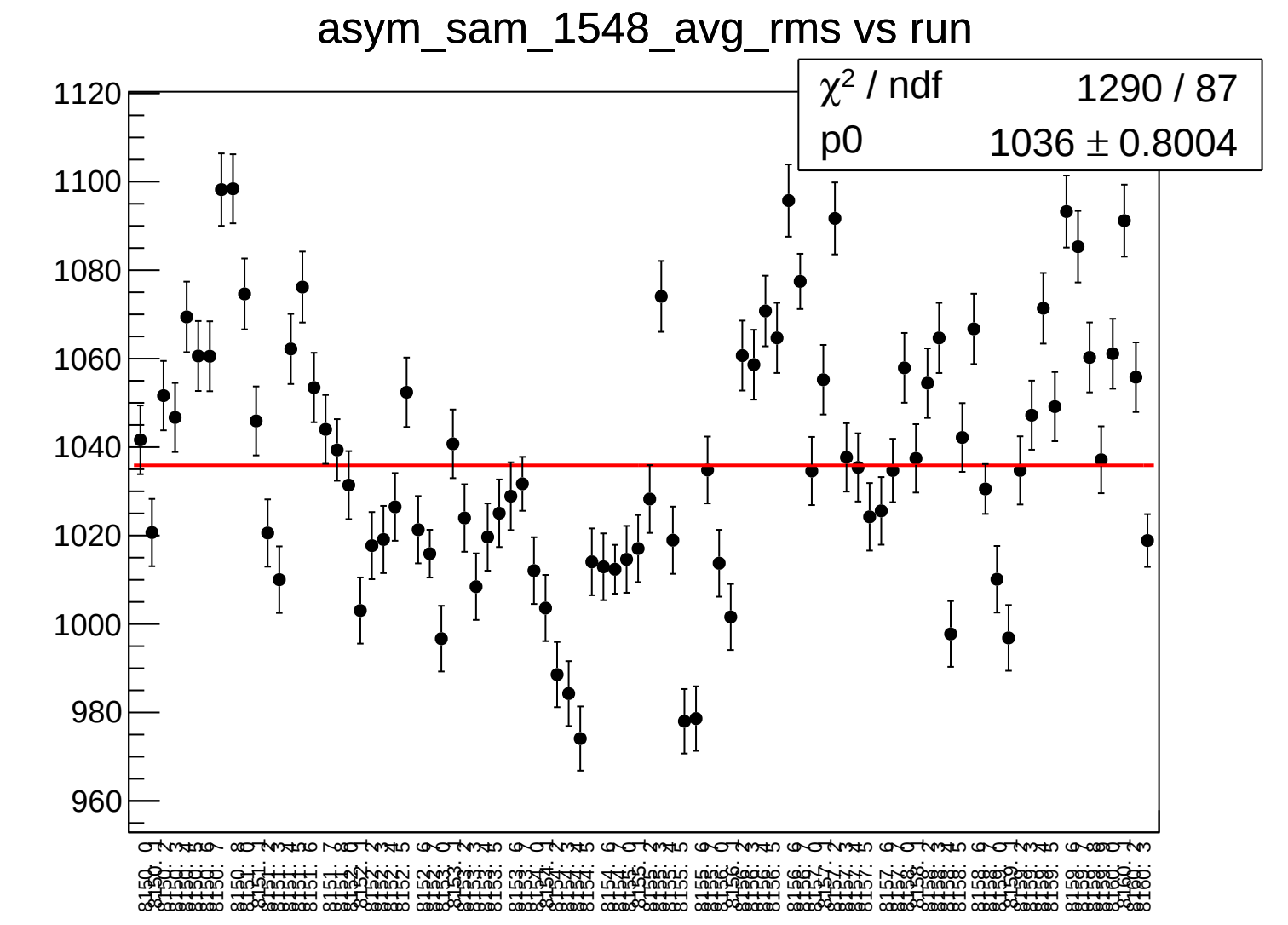

pull1D
Entries 88
Mean 0.01176
Std Dev 1.037

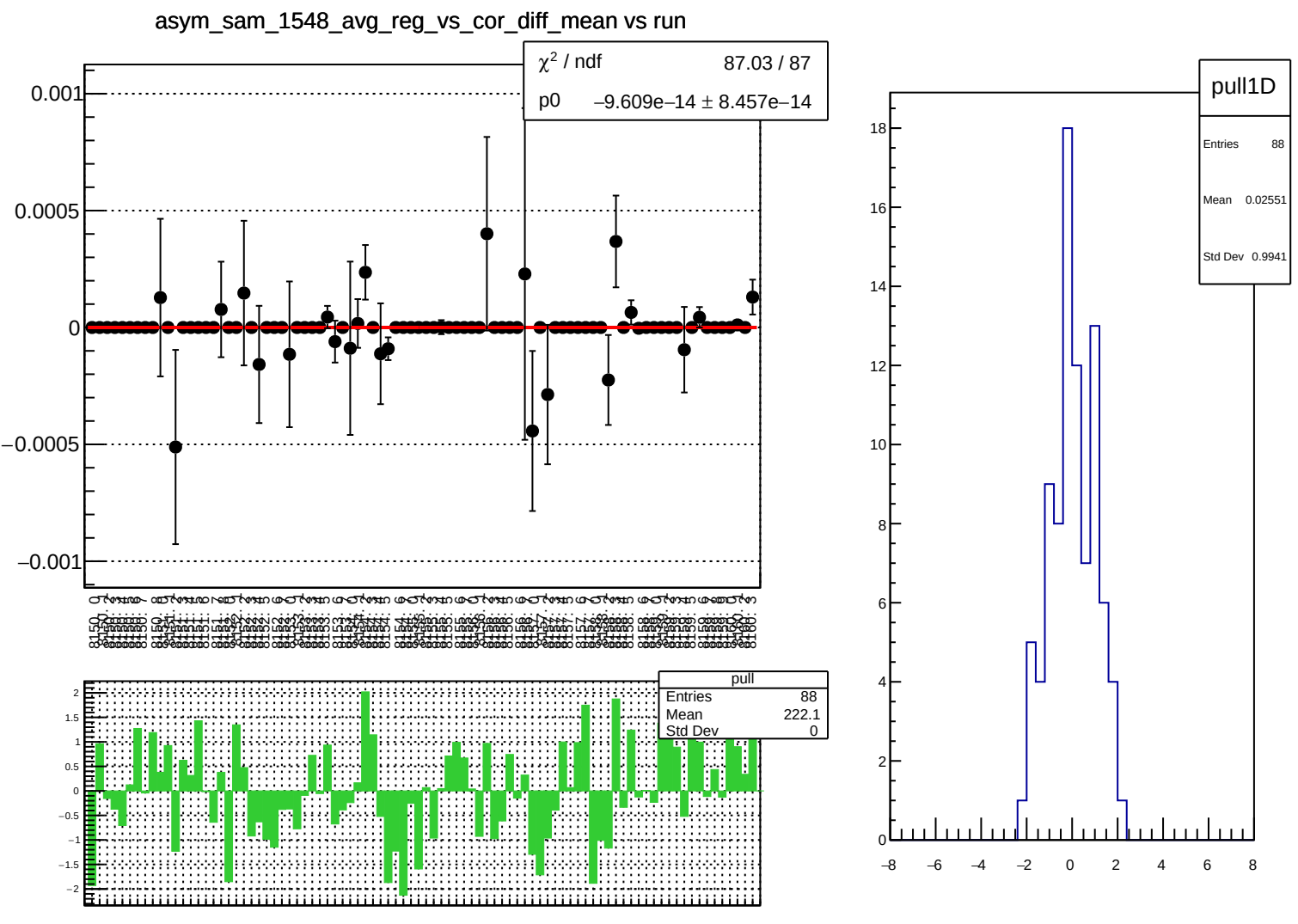

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 799.4 / 87
p0 102.9 ± 0.07947
110
108
106
104
102
100
98

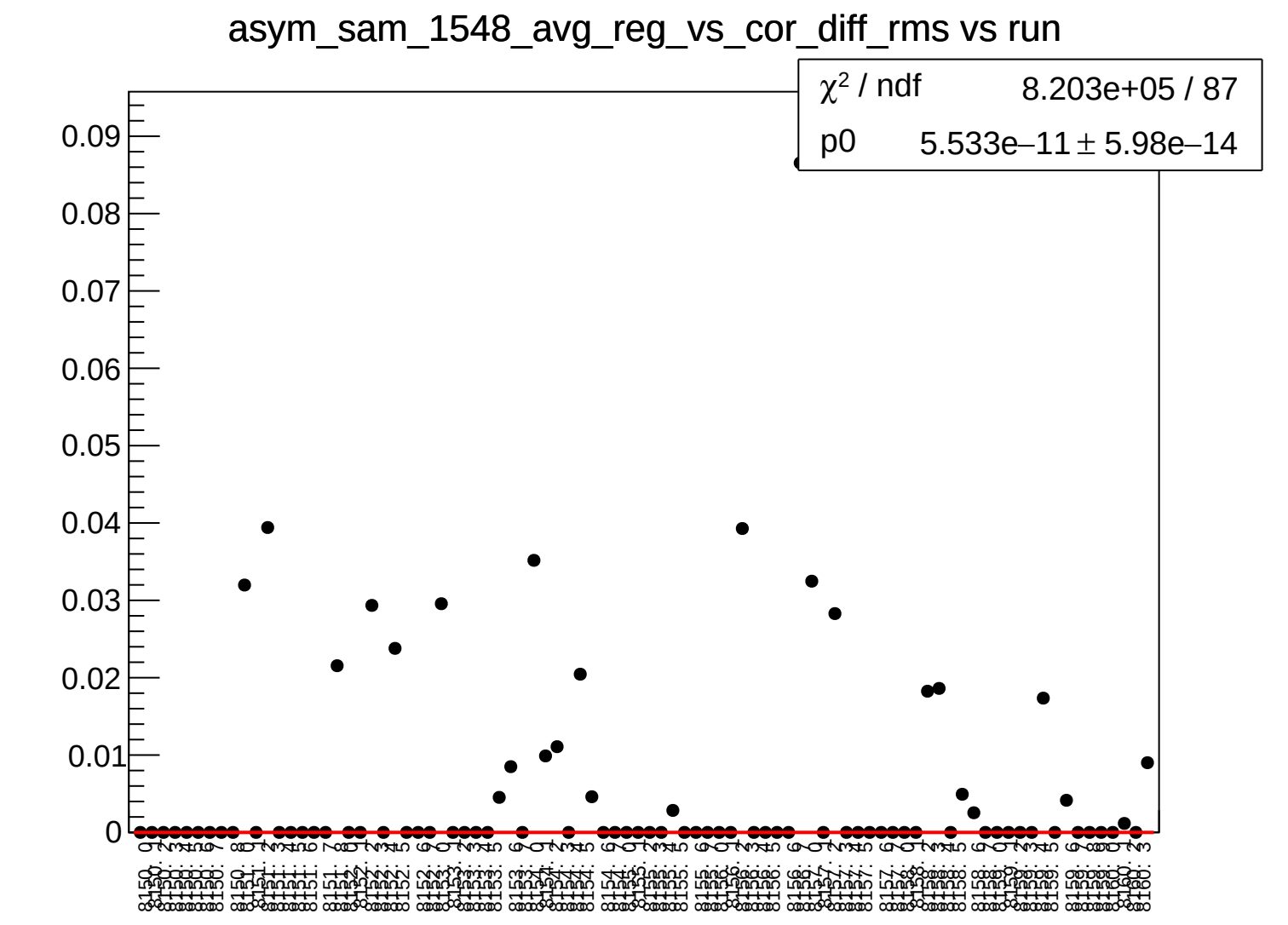

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.51 / 87
p0 −1797 ± 1149
pull
Entries 88
Mean −659.6
Std Dev 0
pull1D
Entries 88
Mean −0.002208
Std Dev 1.014

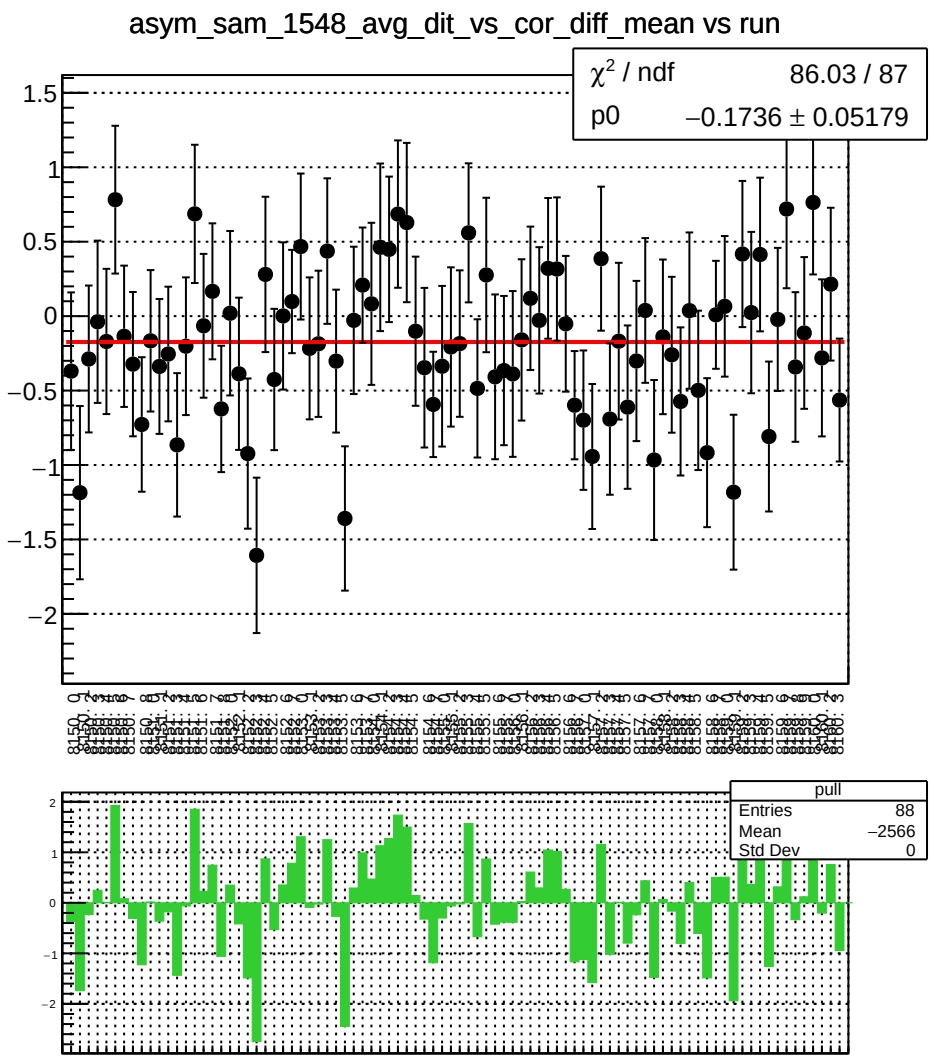

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1057 / 87
p0 1052 ± 0.8125
1120
1100
1080
1060
1040
1020
1000
980

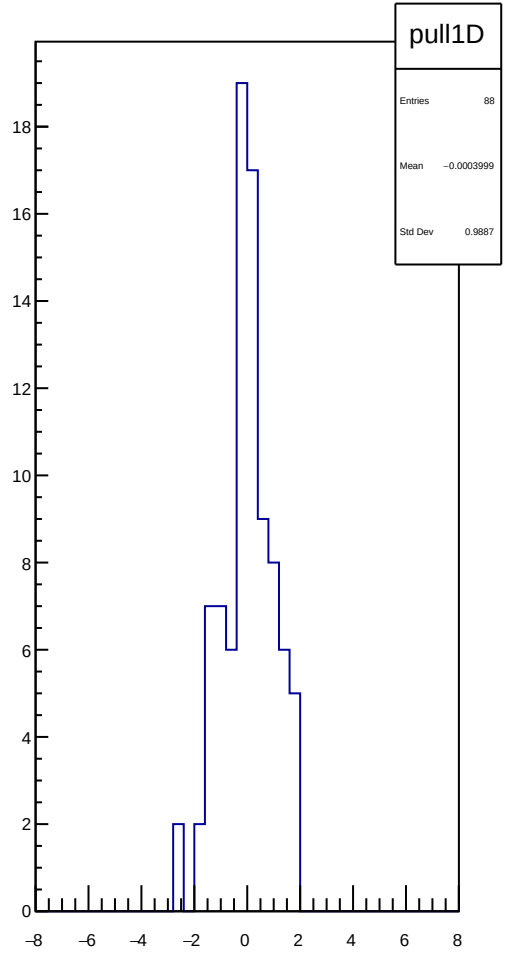

asym_sam_1548_avg_mean vs run
χ² / ndf 93.25 / 87
p0 1889 ± 1132
pull
Entries 88
Mean −473.6
Std Dev 0
pull1D
Entries 88
Mean 0.002657
Std Dev 1.029

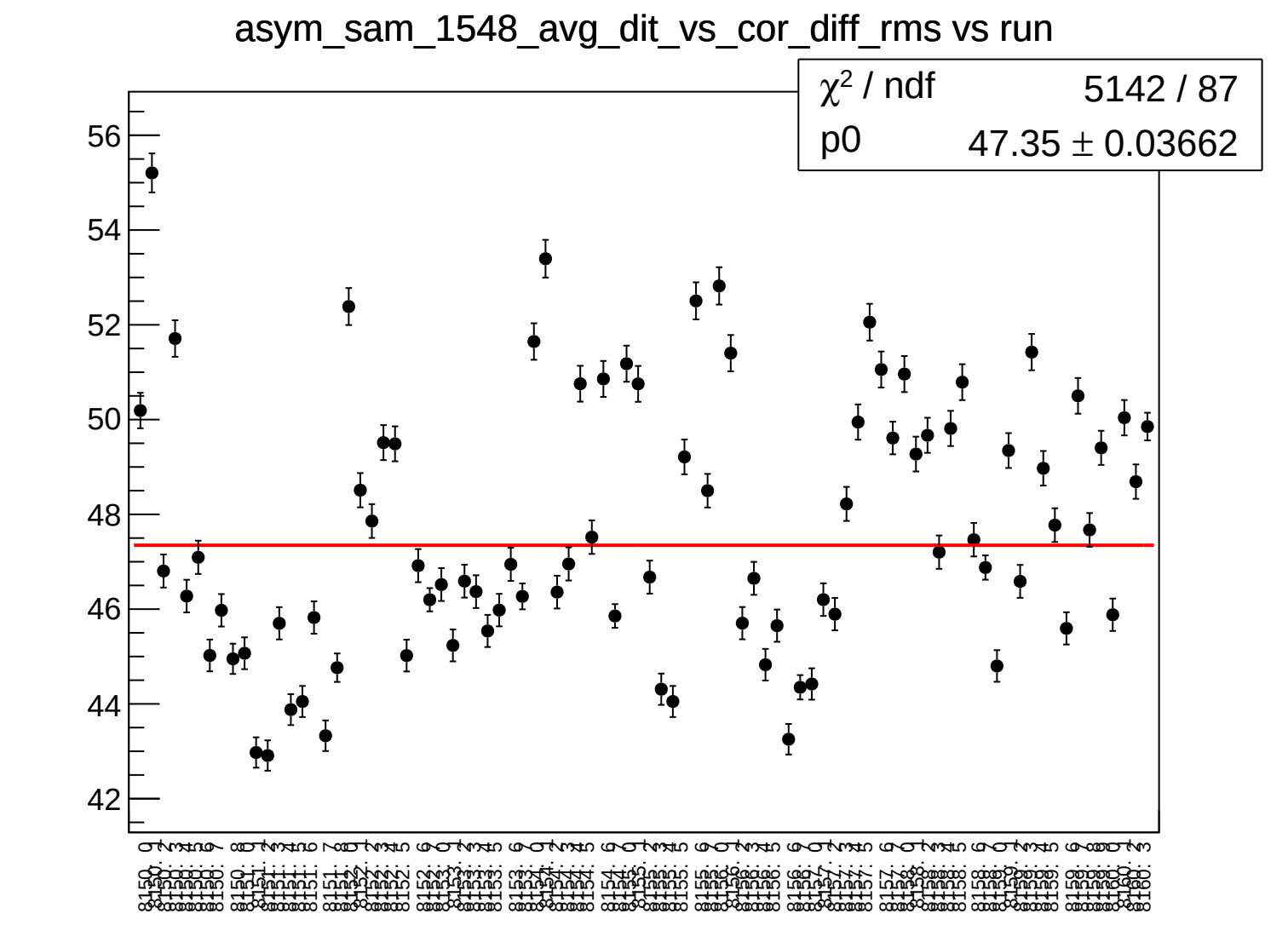

asym_sam_1548_avg_rms vs run
χ² / ndf 1290 / 87
p0 1036 ± 0.8004
1120
1100
1080
1060
1040
1020
1000
980
960

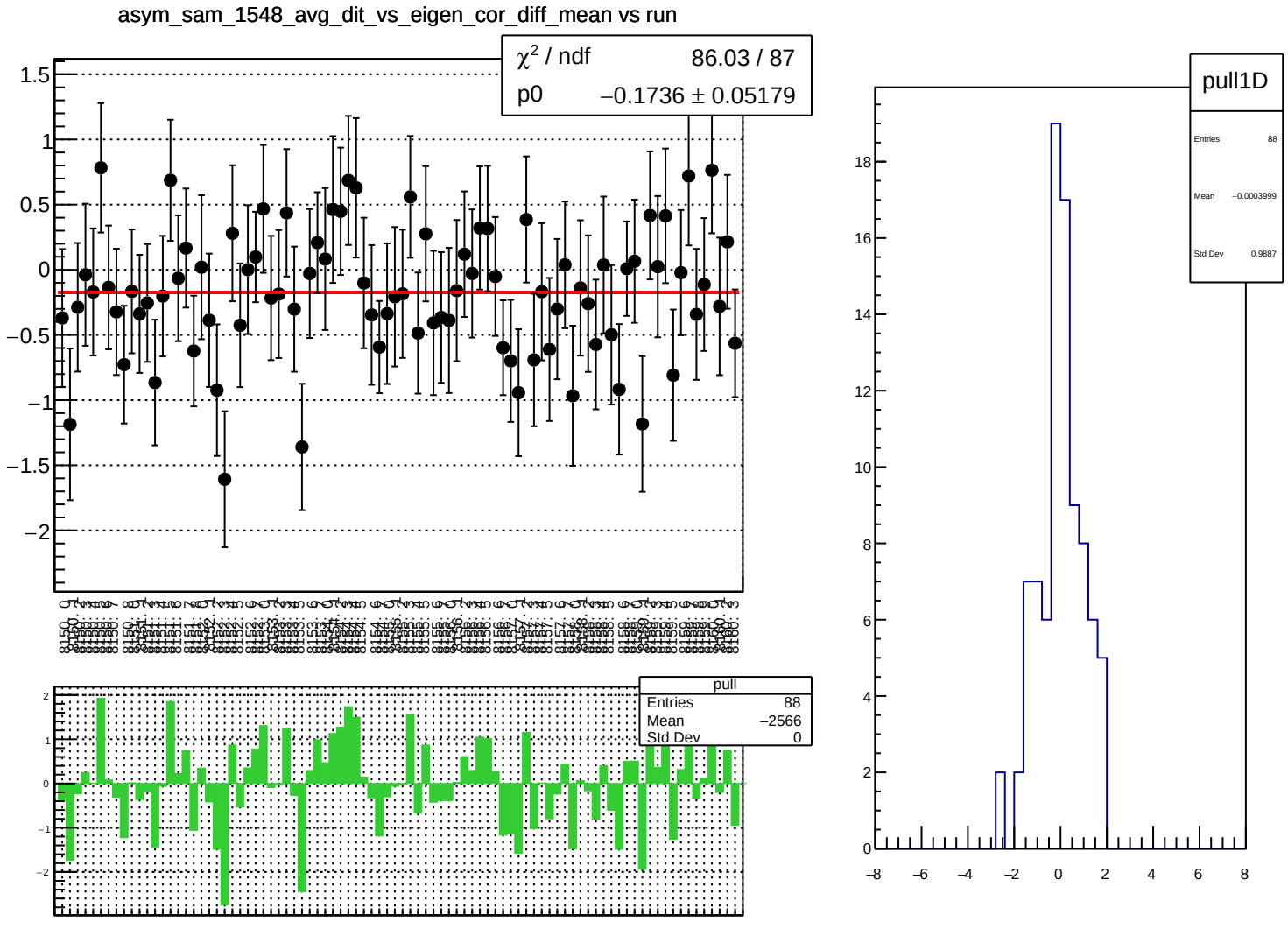

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.03 / 87
p0 −9.609e−14 ± 8.457e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 222.1
Std Dev 0
pull1D
Entries 88
Mean 0.02551
Std Dev 0.9941

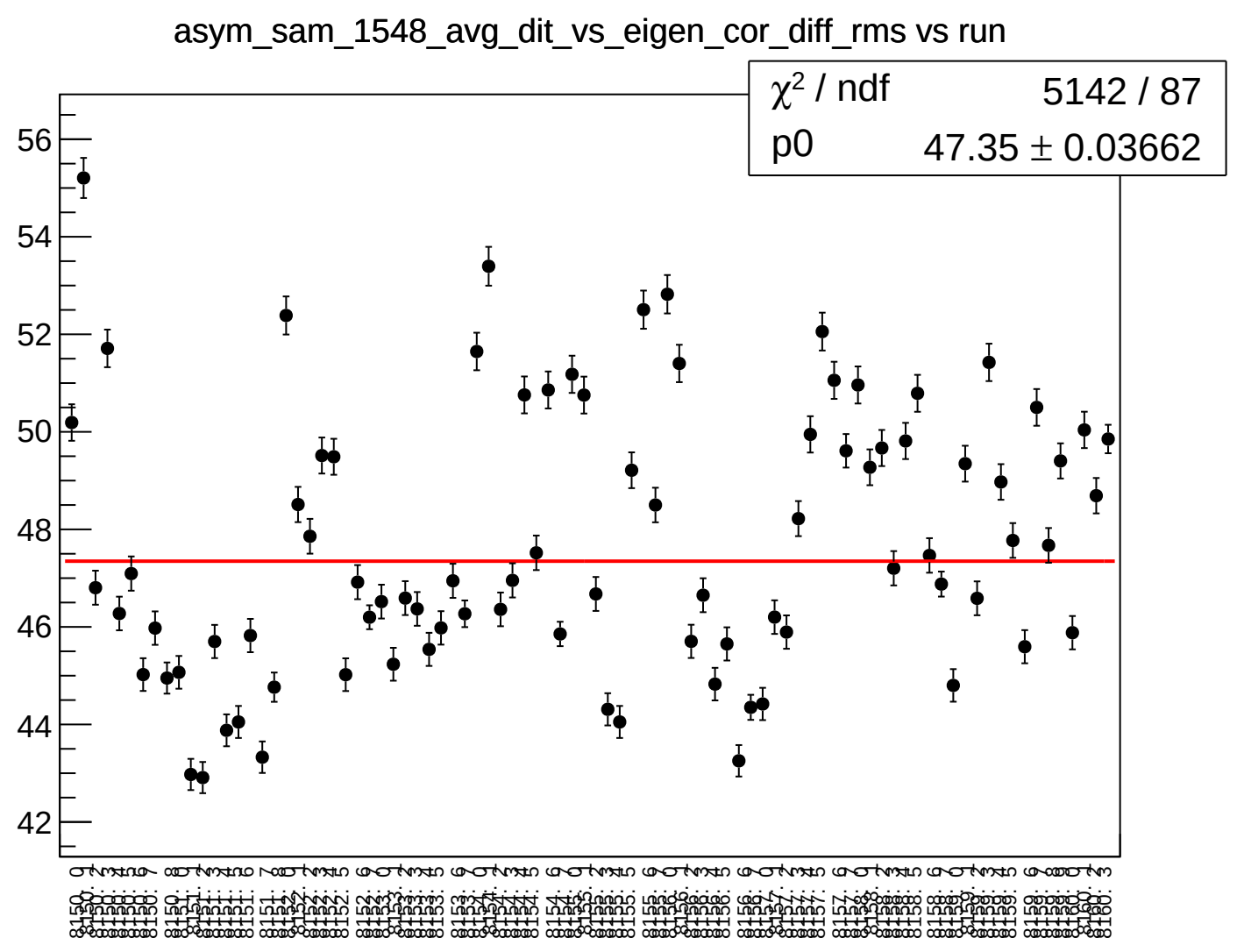

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.203e+05 / 87
p0 5.533e−11 ± 5.98e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

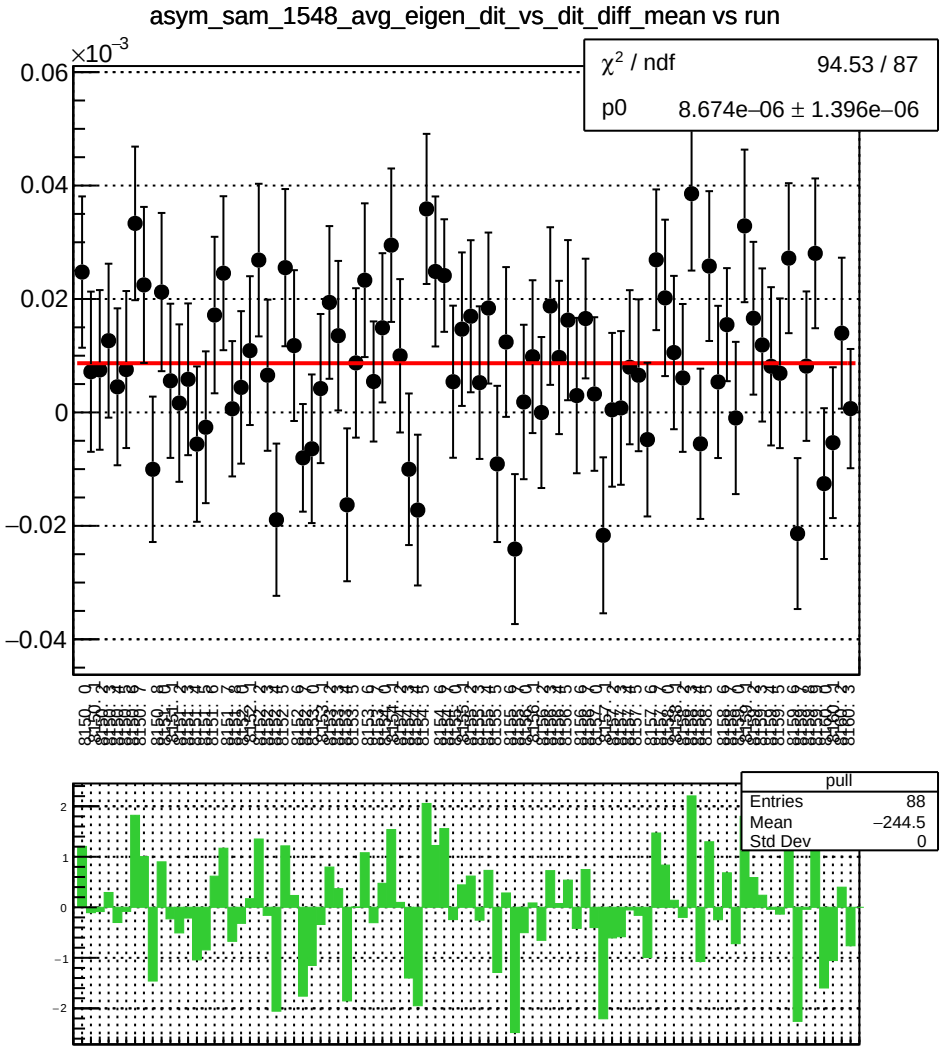

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.03 / 87
p0 −0.1736 ± 0.05179
pull
Entries 88
Mean −2566
Std Dev 0

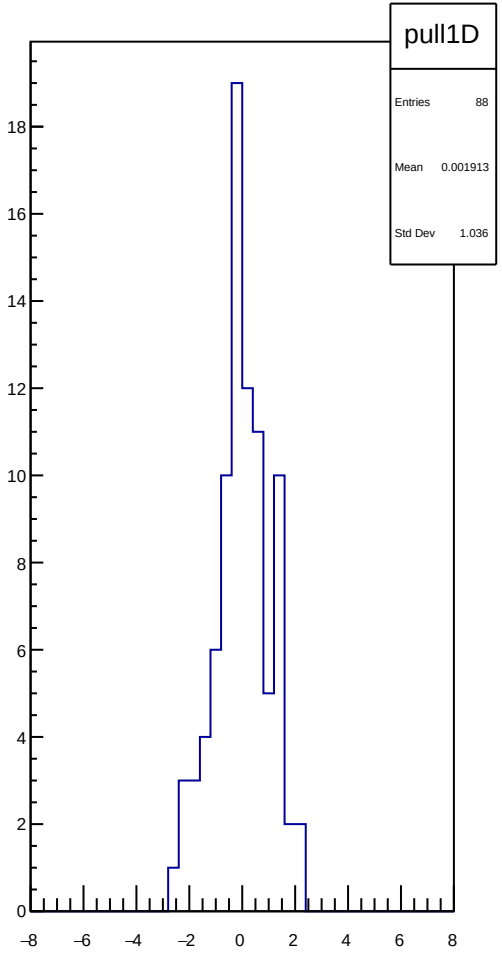

pull1D
Entries 88
Mean −0.0003999
Std Dev 0.9887

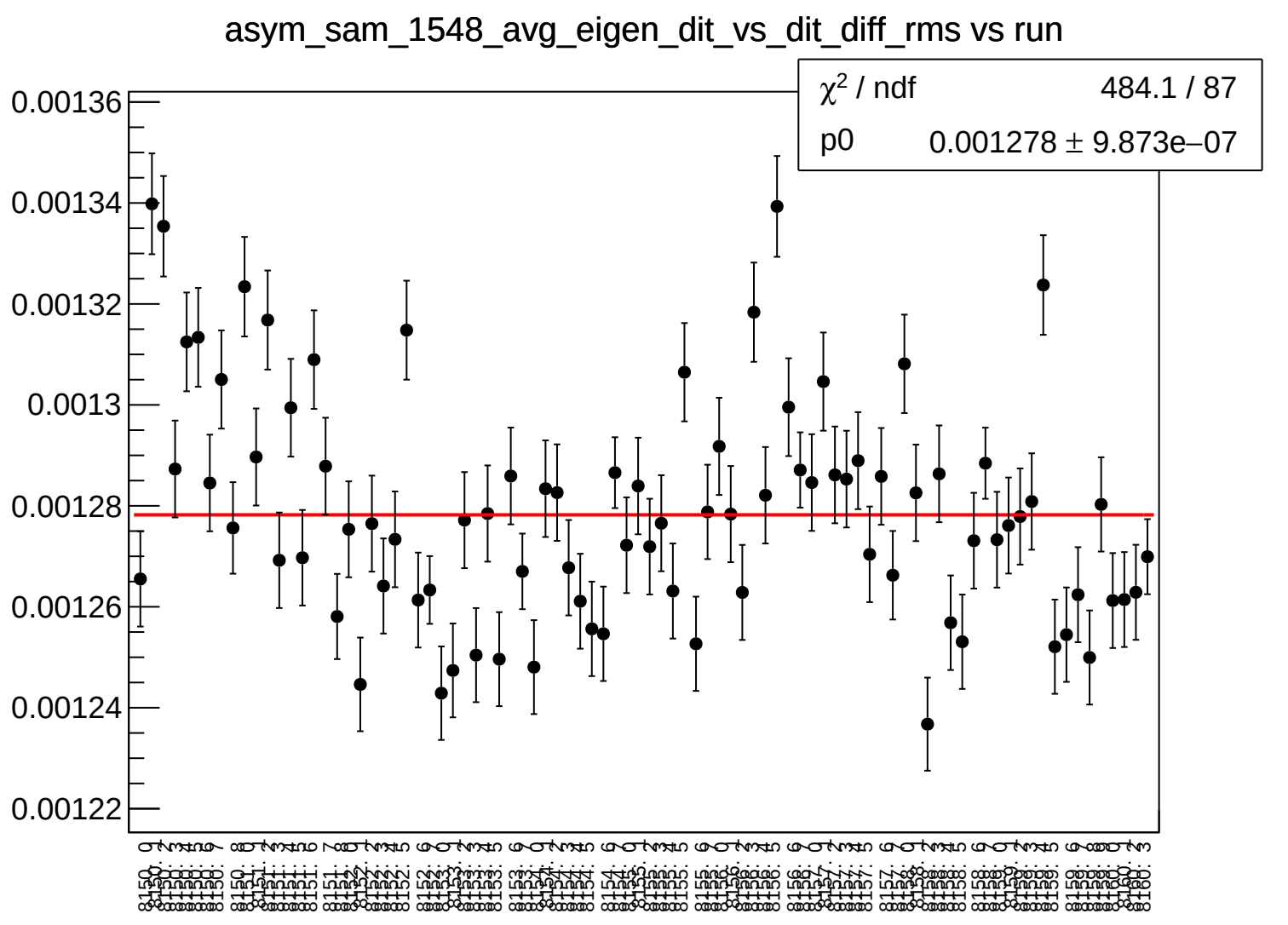

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5142 / 87
p0 47.35 ± 0.03662
56
54
52
50
48
46
44
42

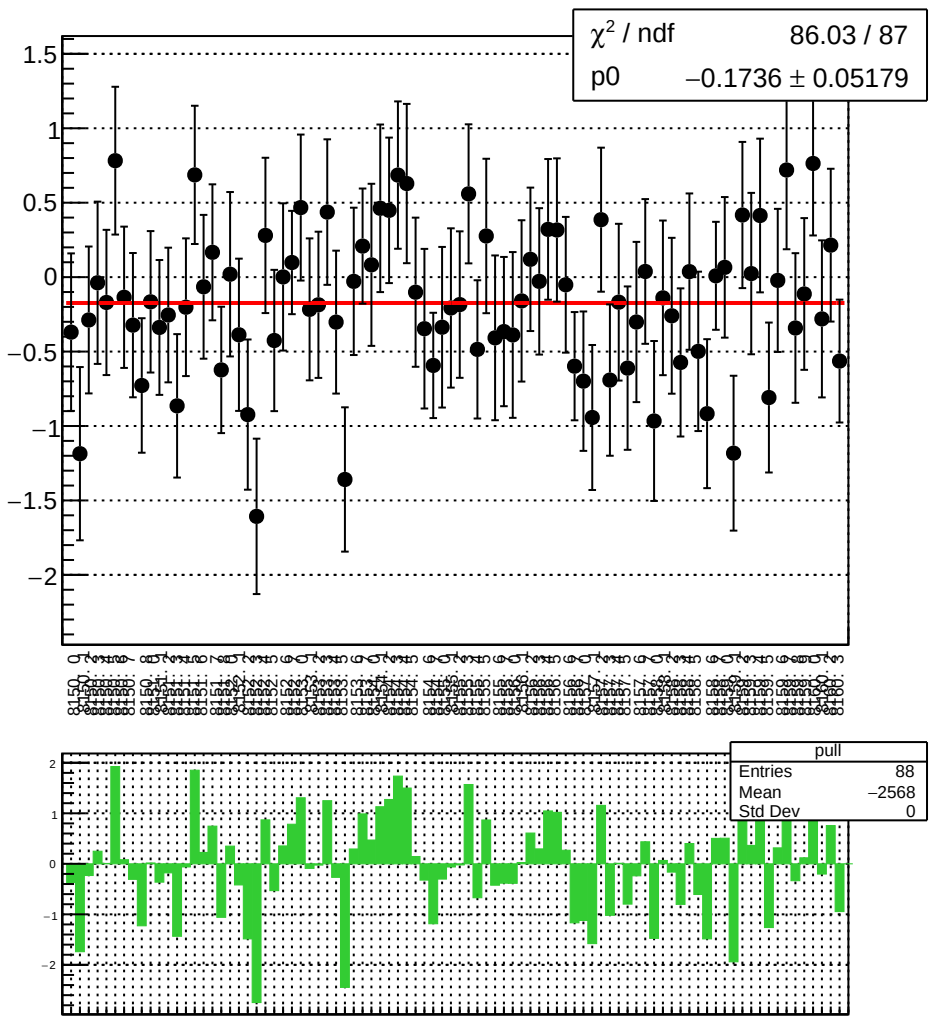

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.03 / 87
p0 −0.1736 ± 0.05179
pull
Entries 88
Mean −2566
Std Dev 0
pull1D
Entries 88
Mean −0.0003999
Std Dev 0.9887

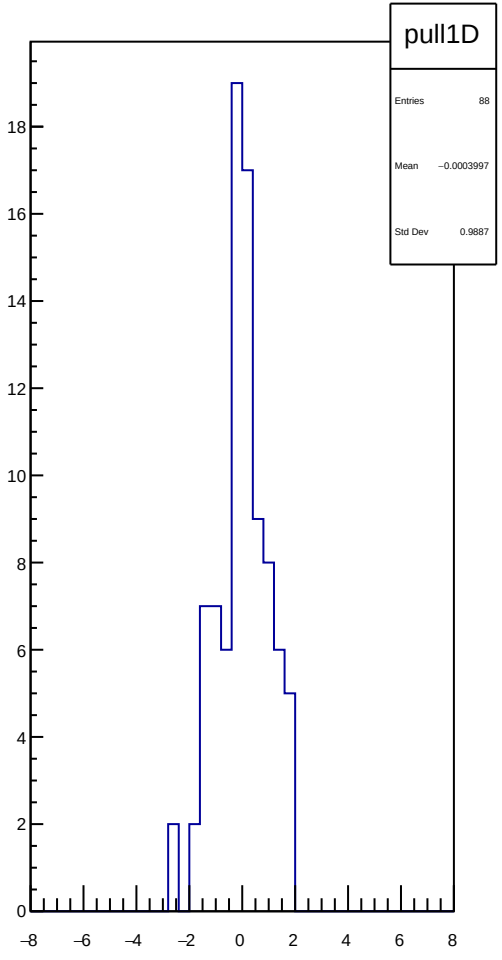

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5142 / 87
p0 47.35 ± 0.03662
56
54
52
50
48
46
44
42

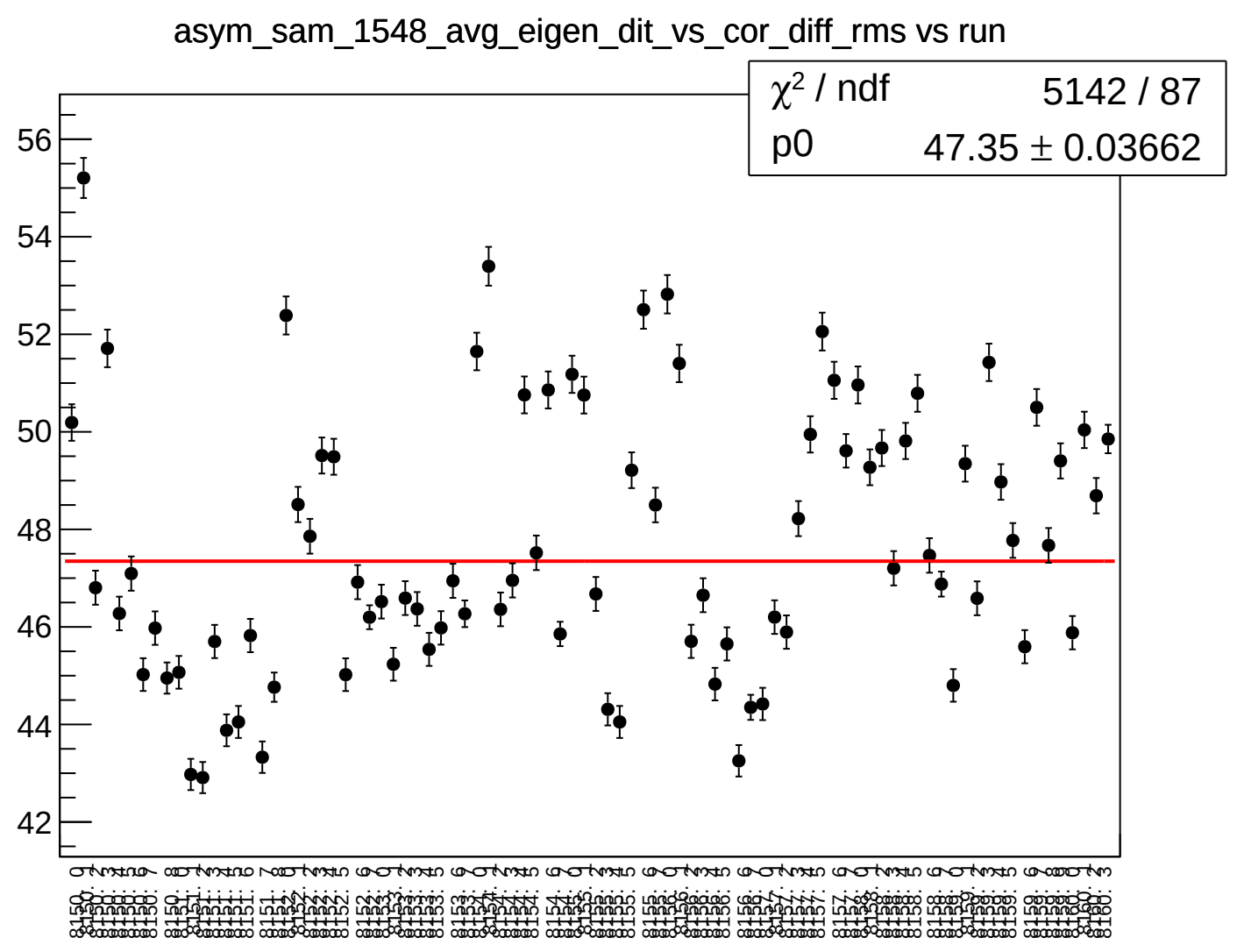

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.53 / 87
p0 8.674e−06 ± 1.396e−06
pull
Entries 88
Mean −244.5
Std Dev 0

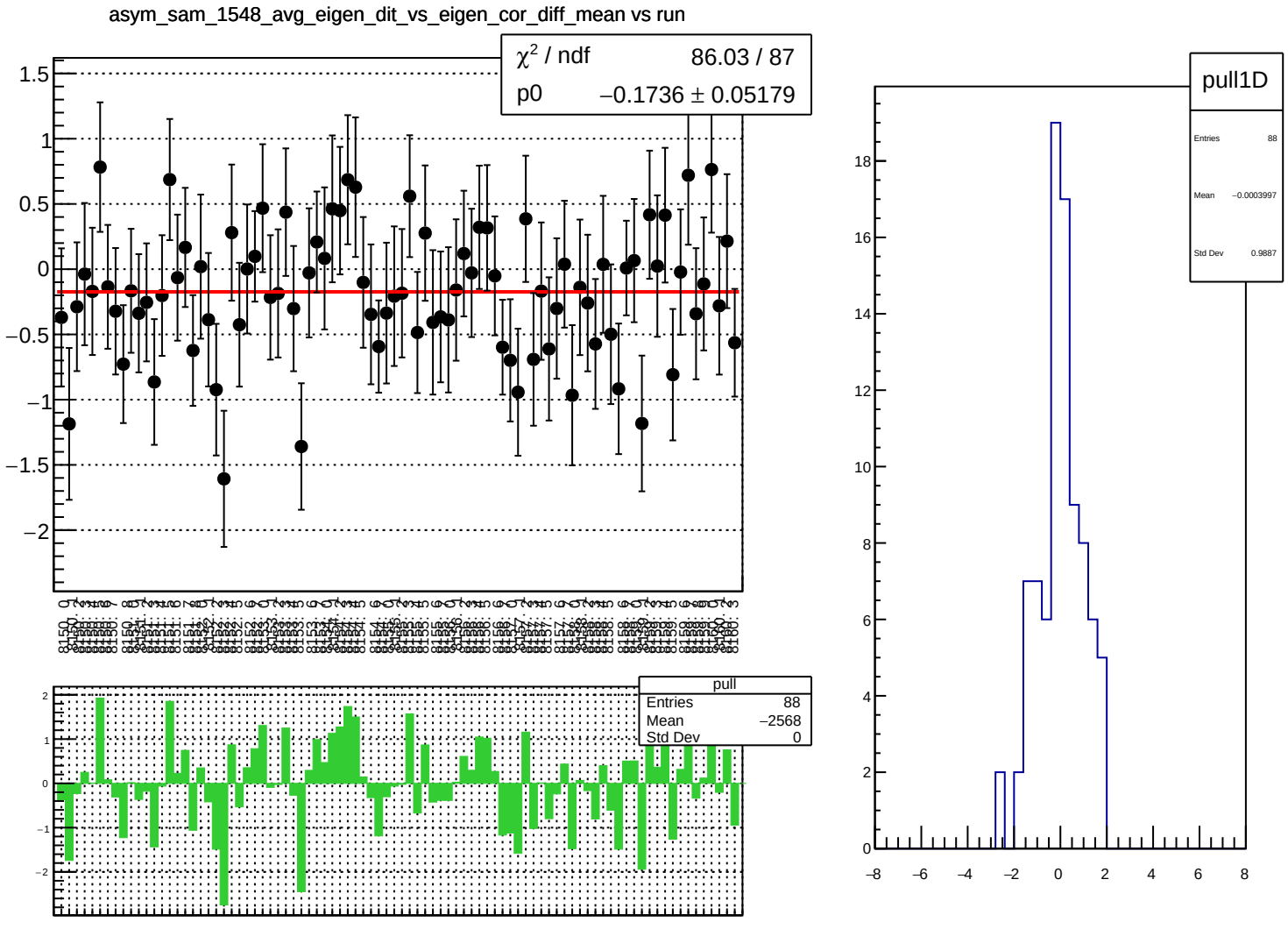

pull1D
Entries 88
Mean 0.001913
Std Dev 1.036

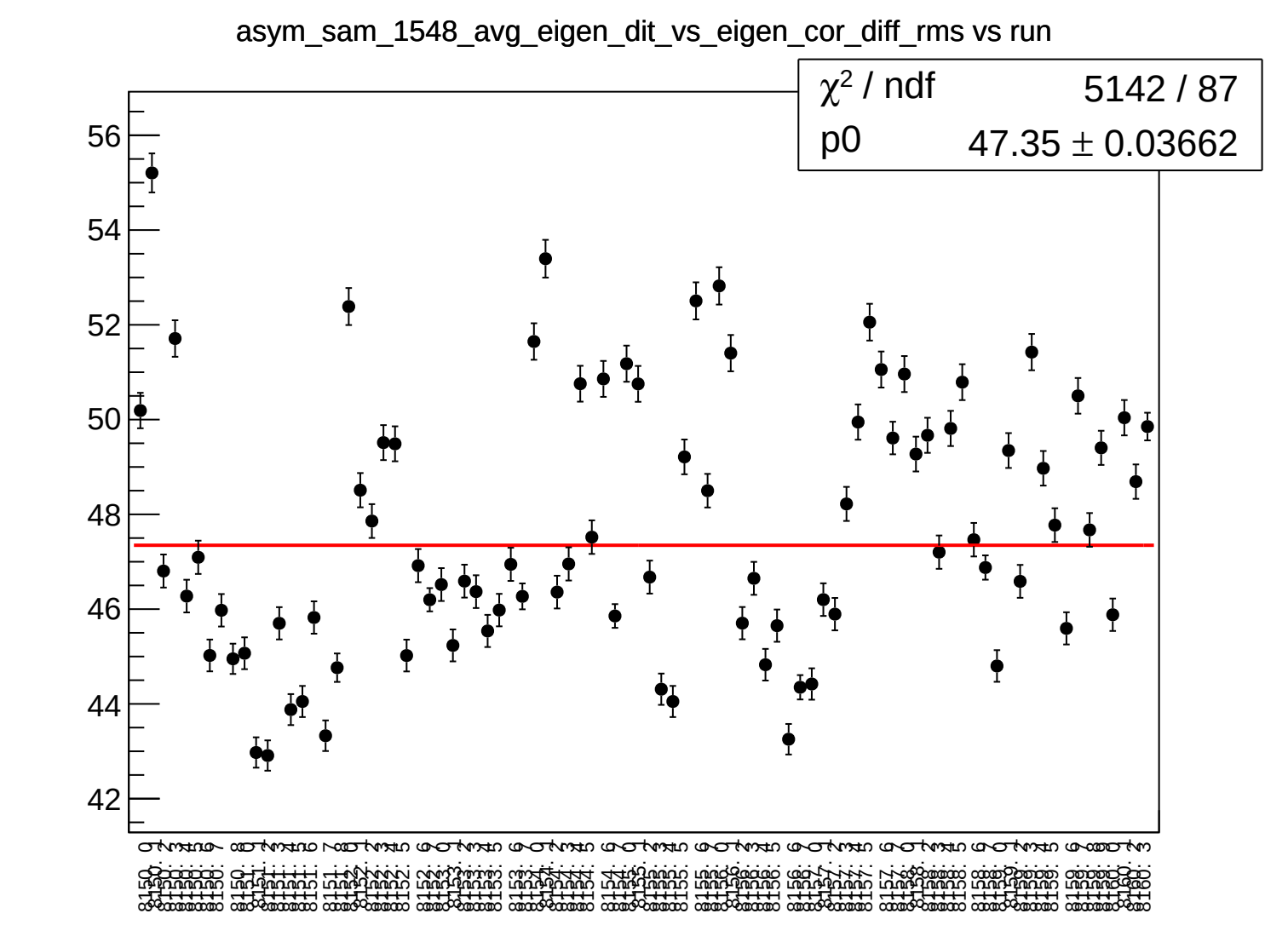

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 484.1 / 87
p0 0.001278 ± 9.873e−07
0.00136
0.00134
0.00132
0.0013
0.00128
0.00126
0.00124
0.00122

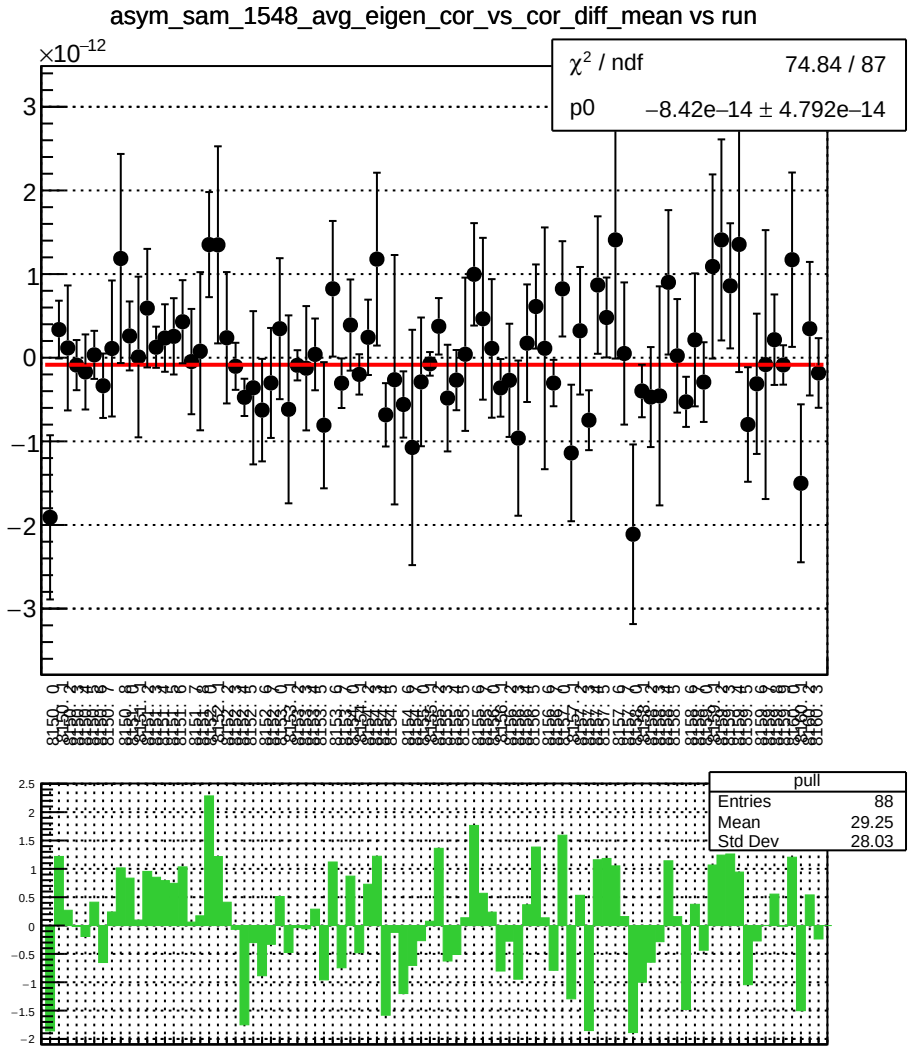

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.03 / 87
p0 −0.1736 ± 0.05179
pull
Entries 88
Mean −2568
Std Dev 0

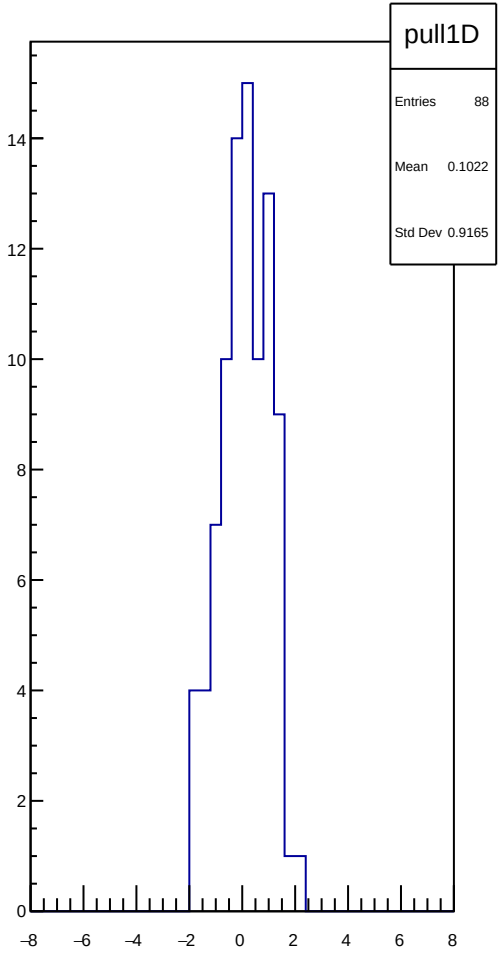

pull1D
Entries 88
Mean −0.0003997
Std Dev 0.9887

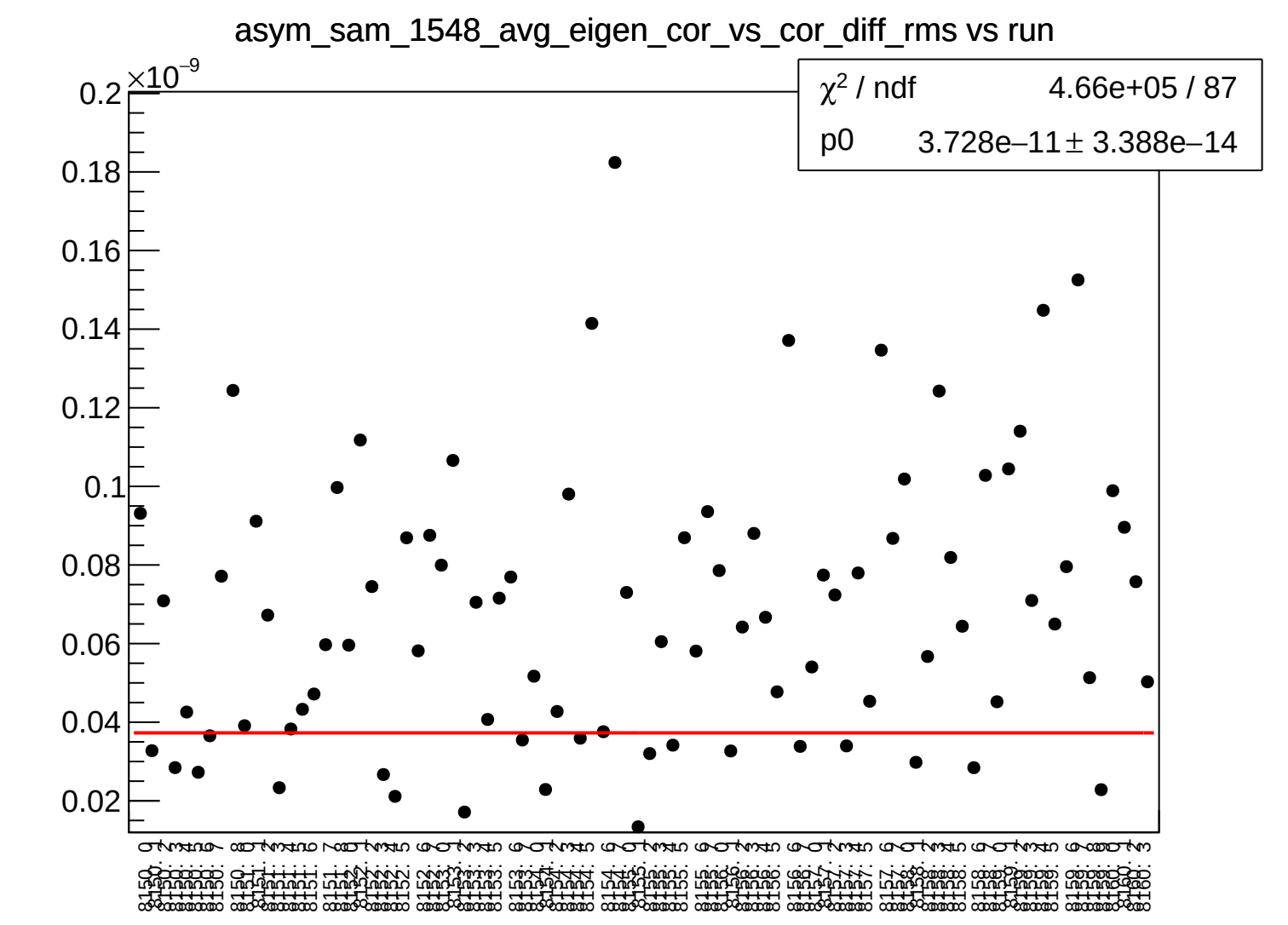

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5142 / 87
p0 47.35 ± 0.03662
56
54
52
50
48
46
44
42

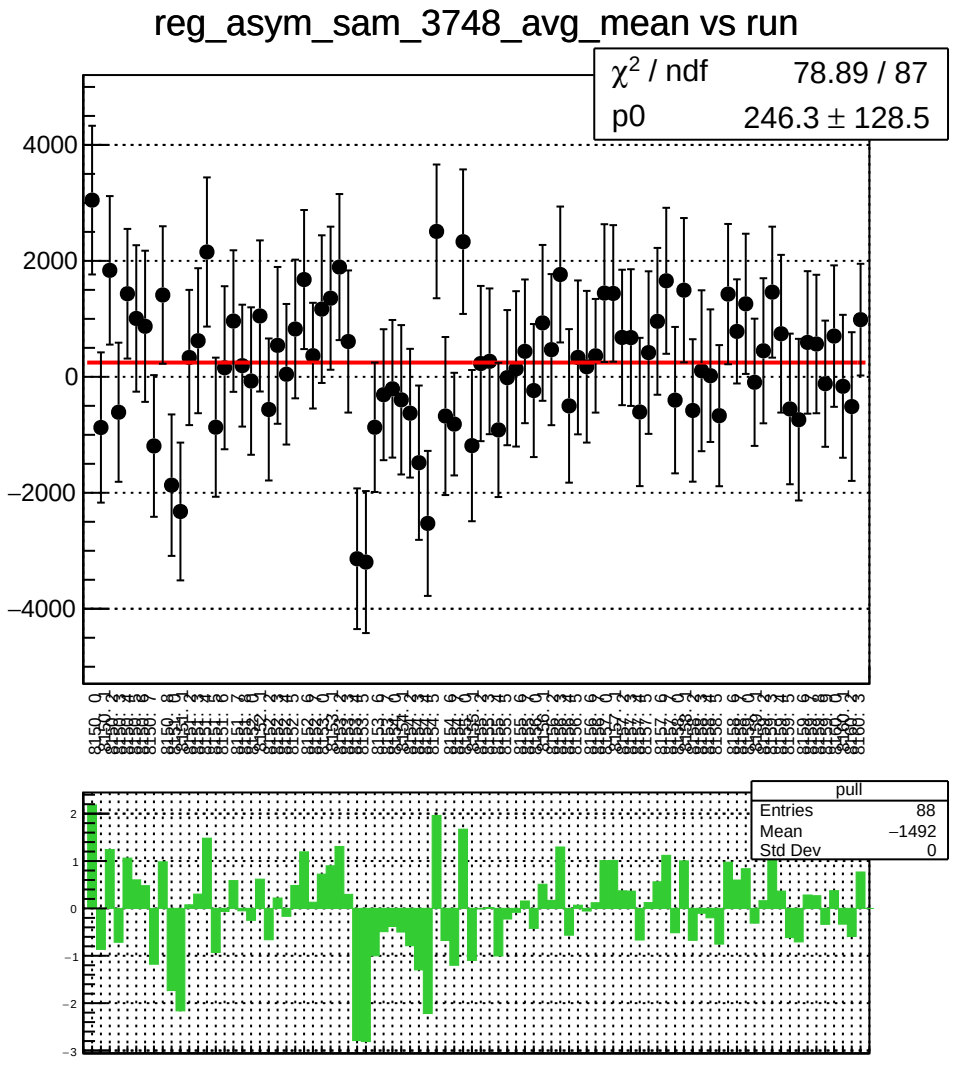

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.03 / 87
p0 −0.1736 ± 0.05179
pull
Entries 88
Mean −2568
Std Dev 0
pull1D
Entries 88
Mean −0.0003997
Std Dev 0.9887

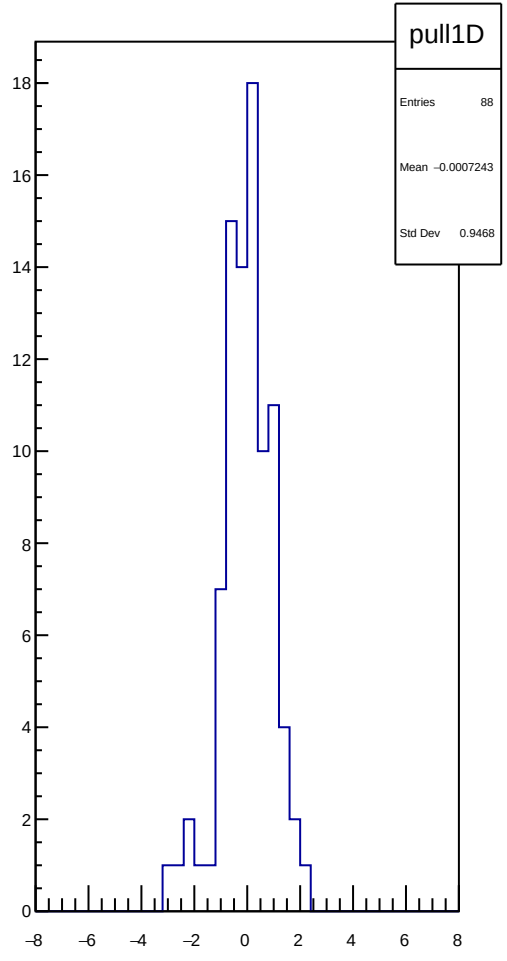

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5142 / 87
p0 47.35 ± 0.03662
56
54
52
50
48
46
44
42

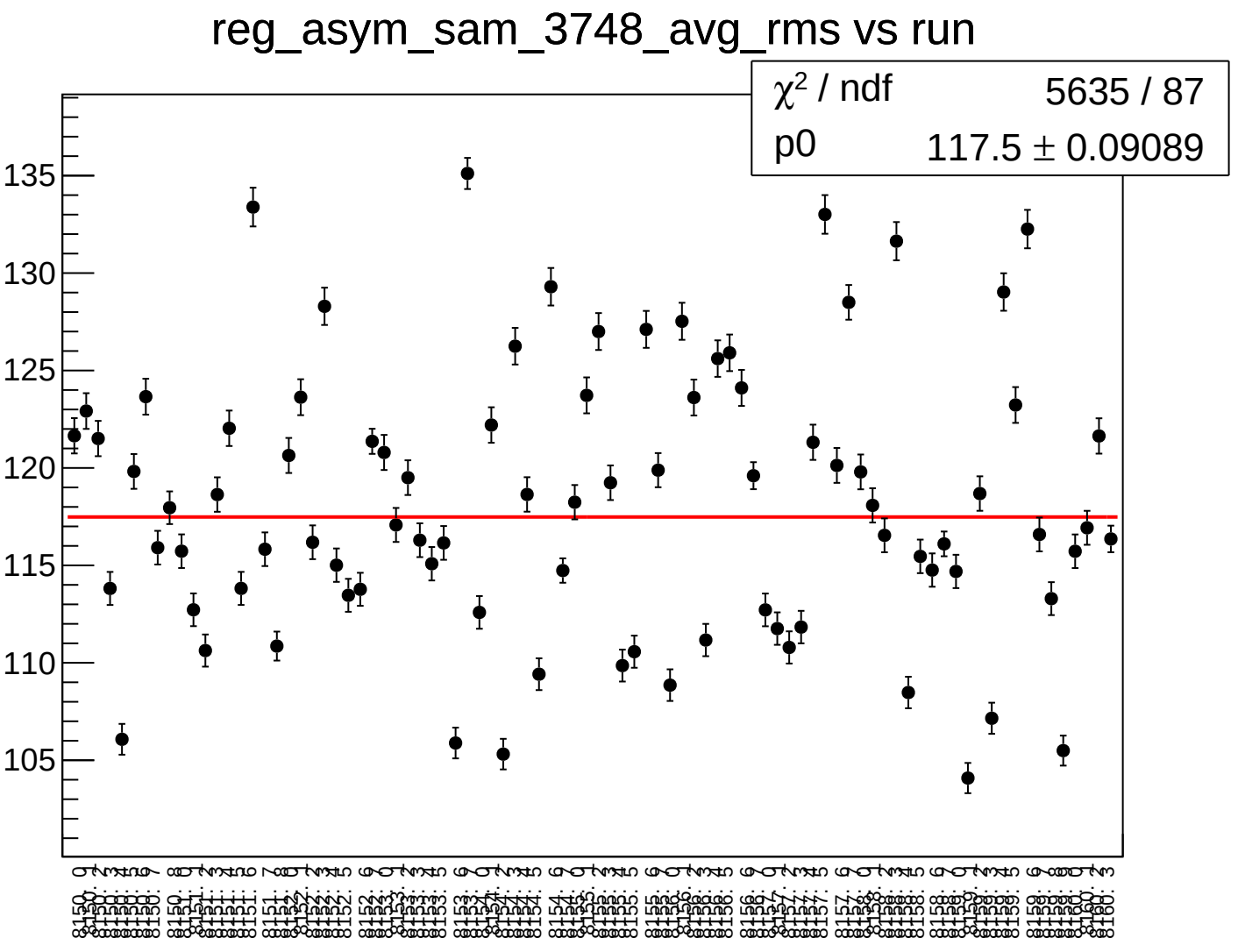

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.84 / 87
p0 −8.42e−14 ± 4.792e−14
pull
Entries 88
Mean 29.25
Std Dev 28.03

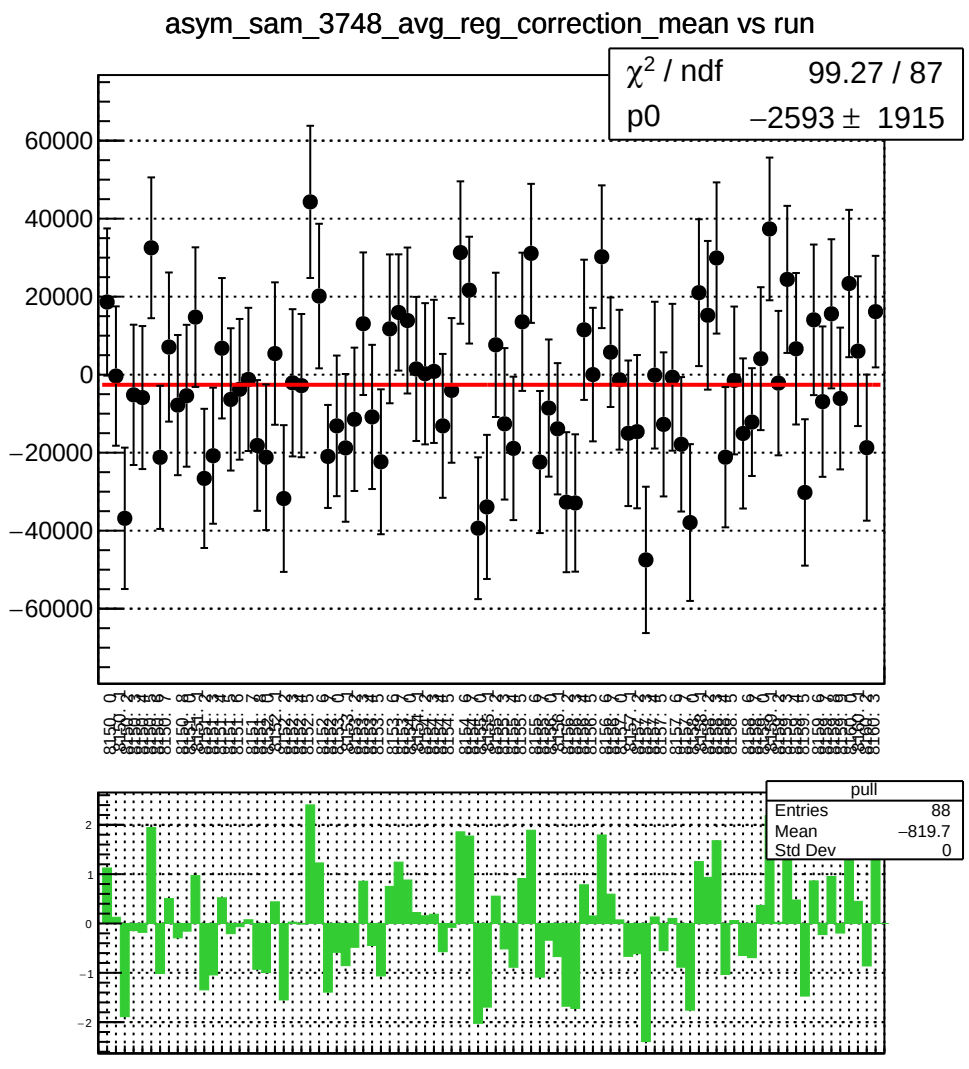

pull1D
Entries 88
Mean 0.1022
Std Dev 0.9165

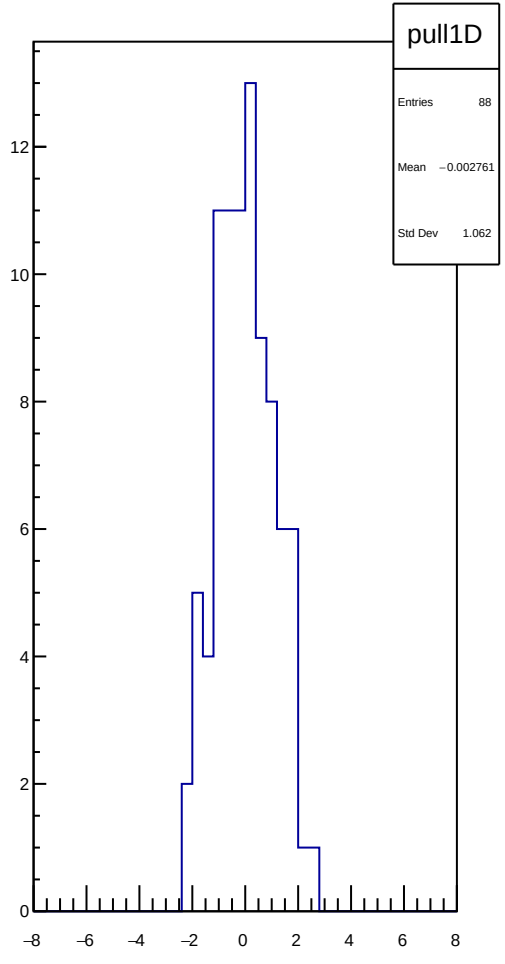

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.66e+05 / 87
p0 3.728e−11 ± 3.388e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

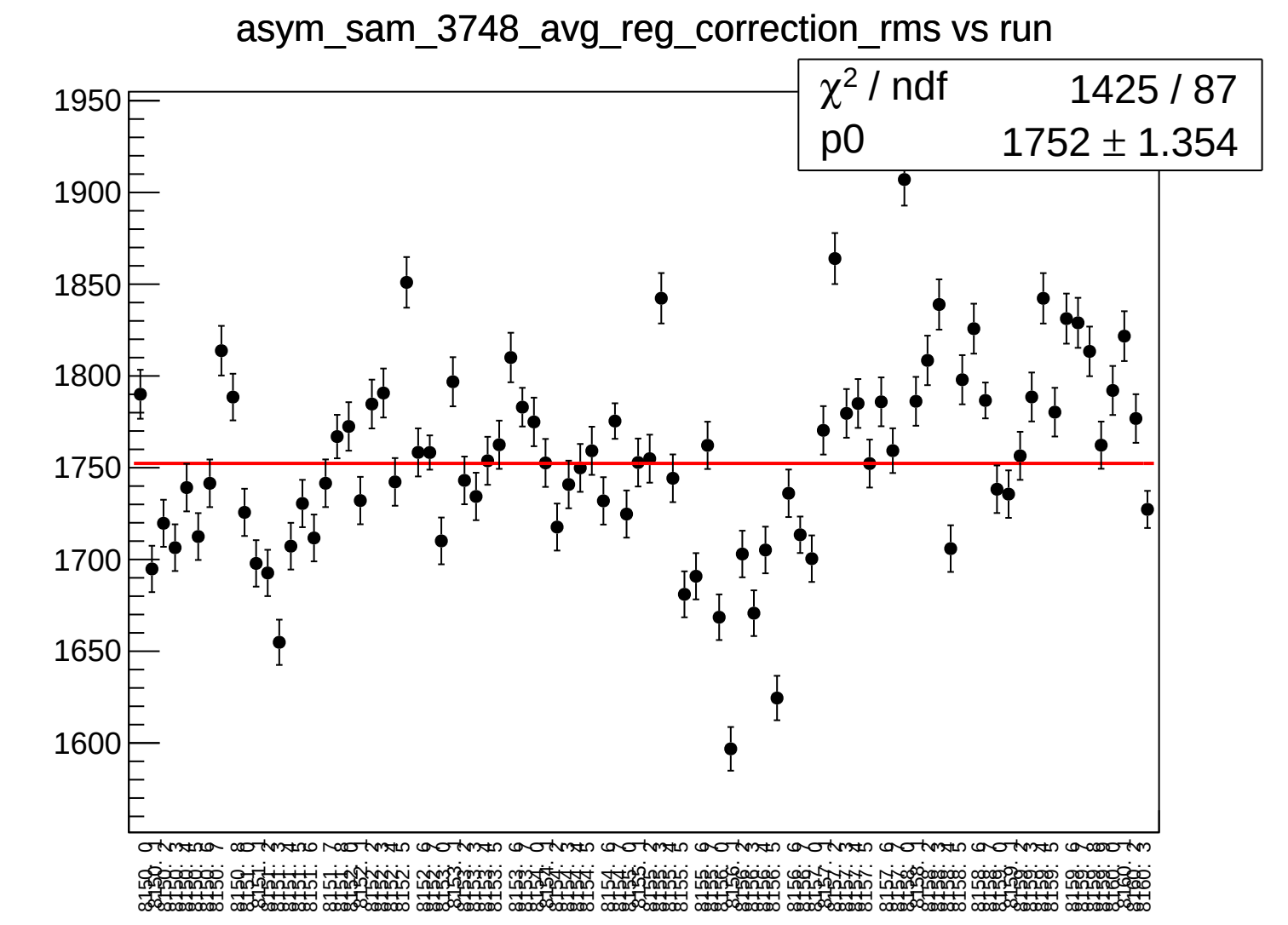

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 78.89 / 87
p0 246.3 ± 128.5
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −1492
Std Dev 0
2
1
0
−1
−2
−3

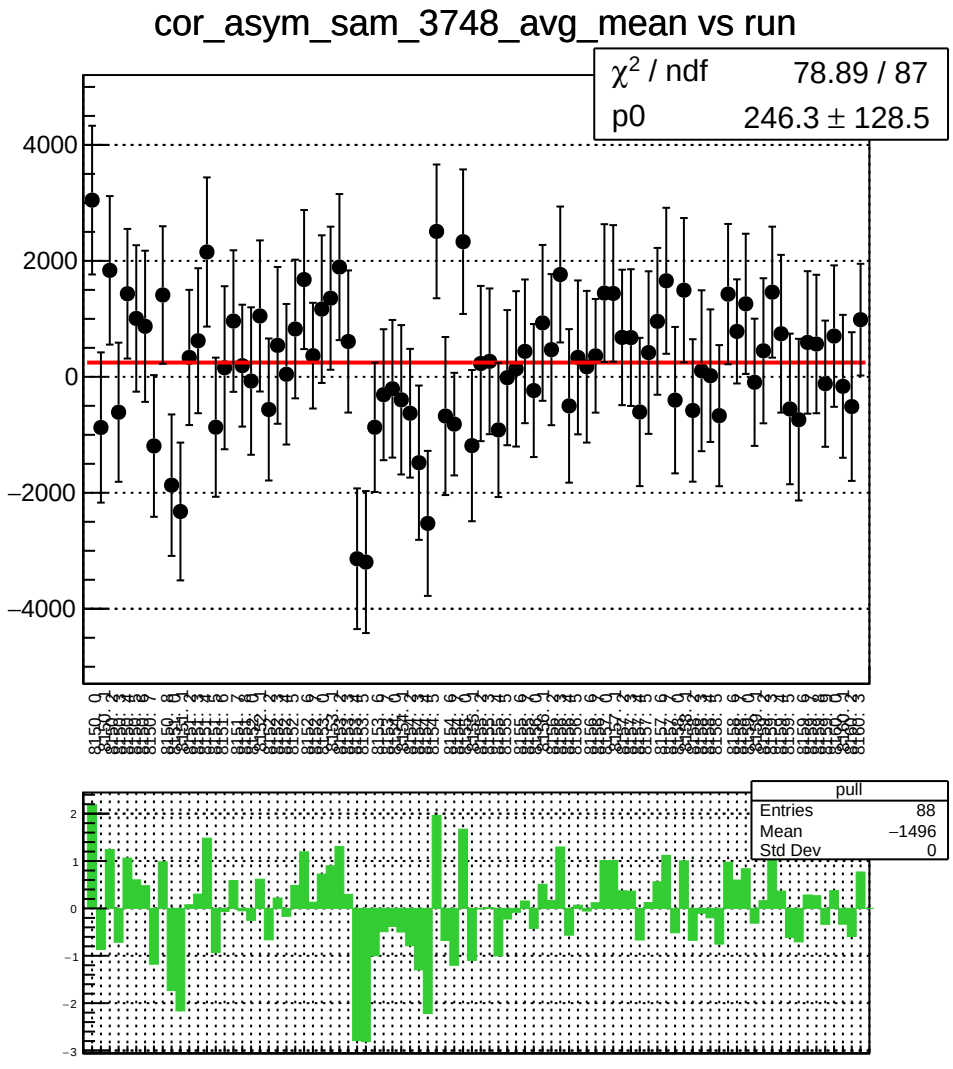

pull1D
Entries 88
Mean −0.0007243
Std Dev 0.9468
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

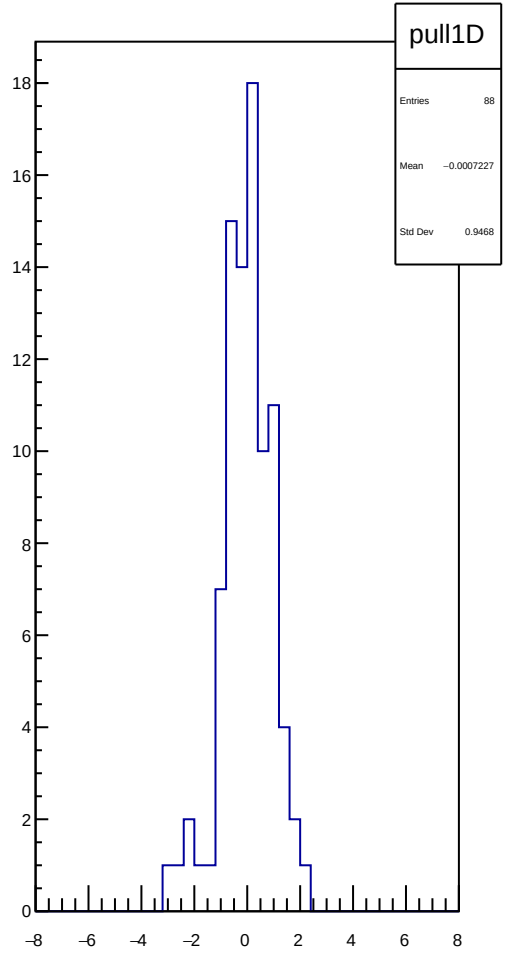

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 5635 / 87
p0 117.5 ± 0.09089
135
130
125
120
115
110
105

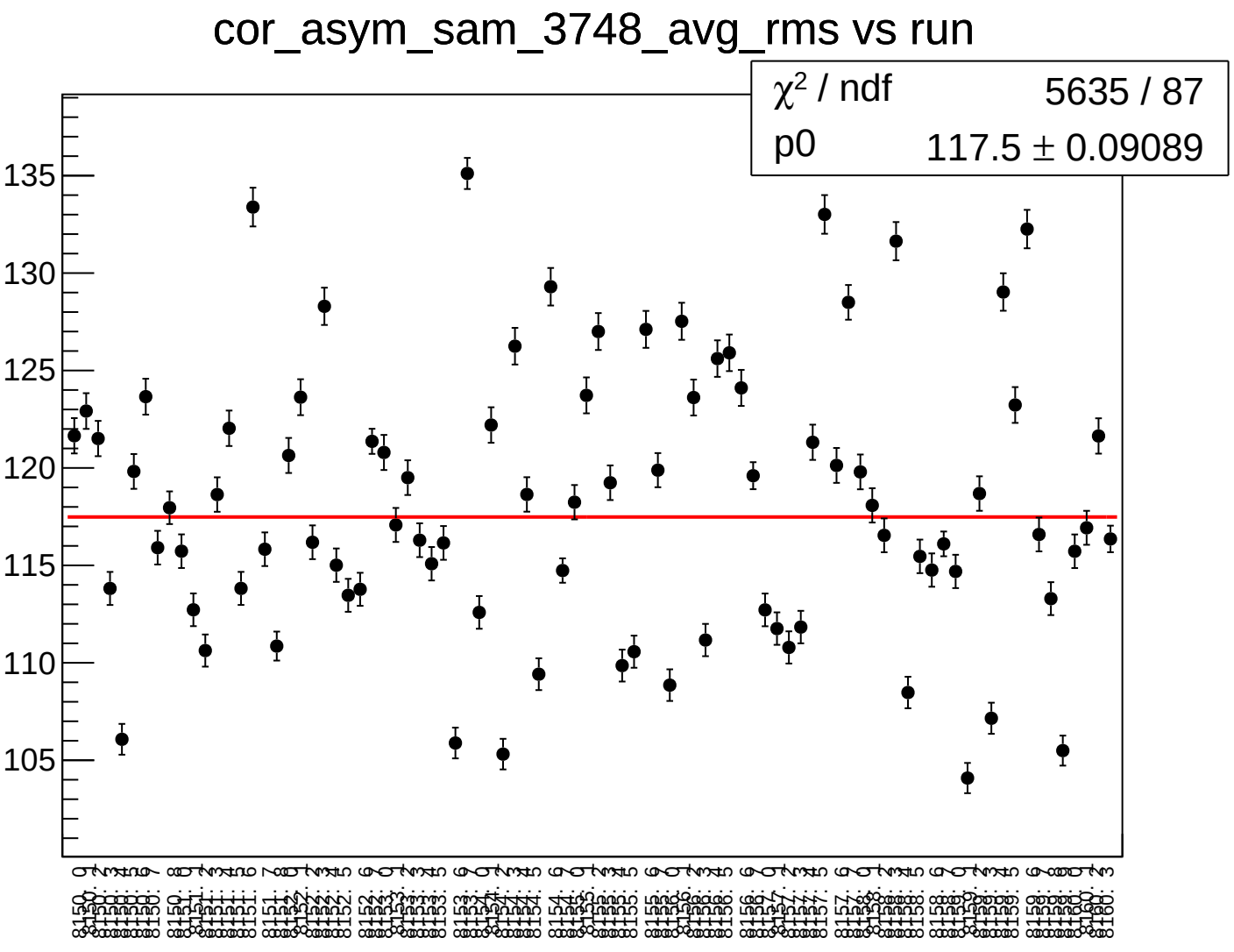

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 99.27 / 87
p0 −2593 ± 1915
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −819.7
Std Dev 0
2
1
0
−1
−2

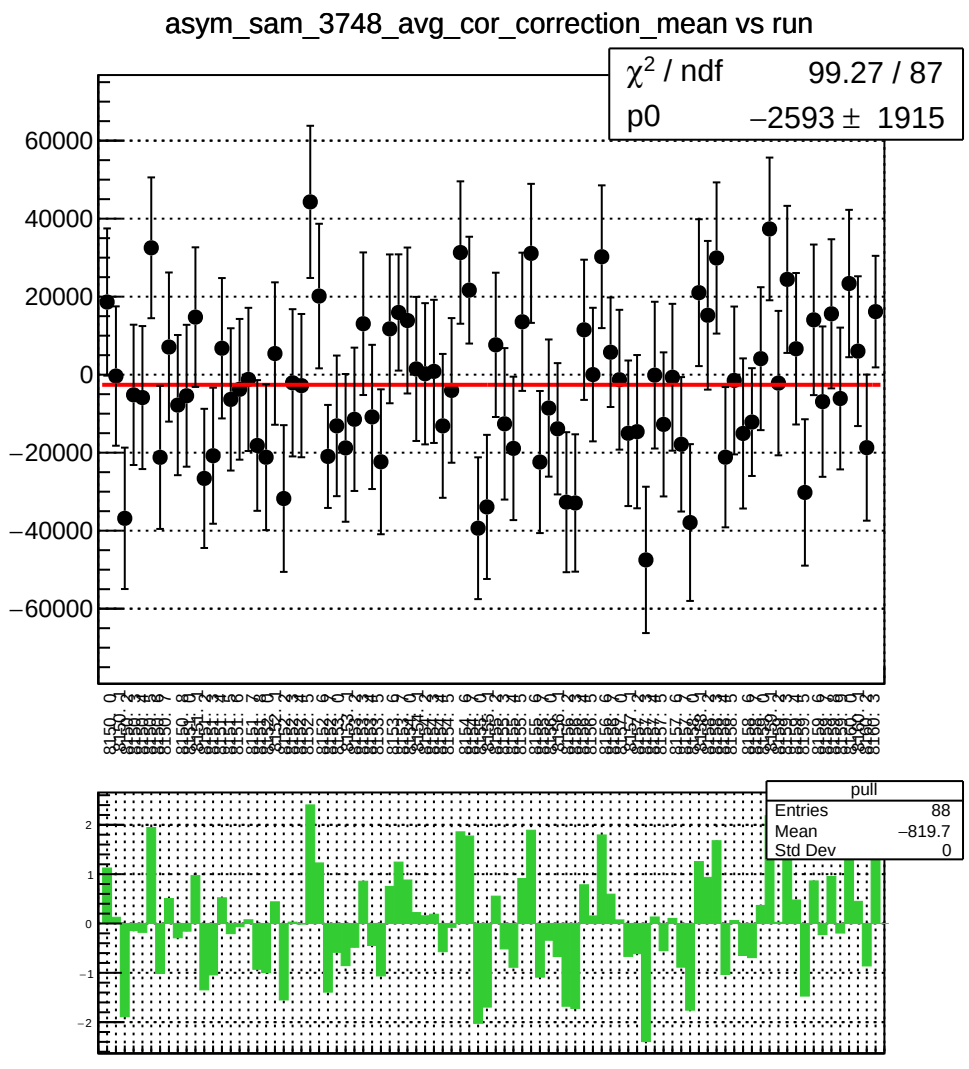

pull1D
Entries 88
Mean −0.002761
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

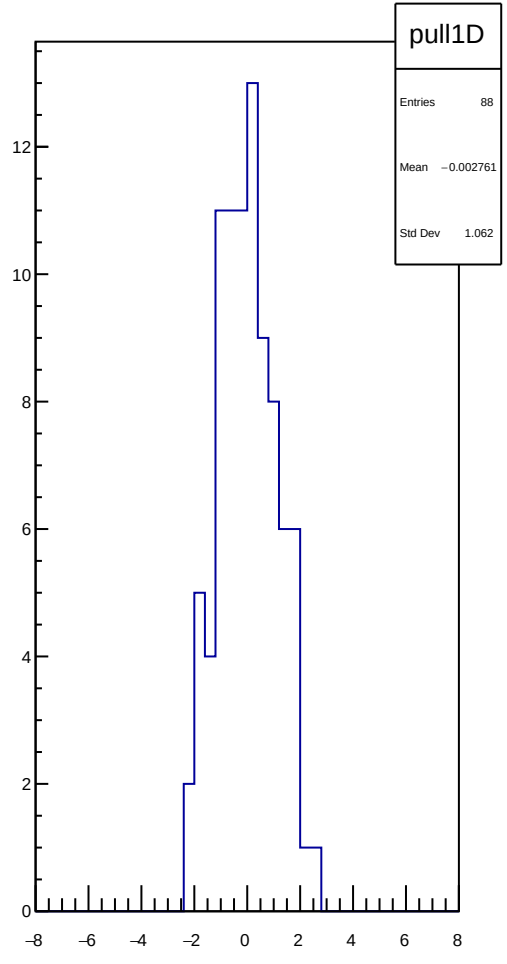

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1425 / 87
p0 1752 ± 1.354
1950
1900
1850
1800
1750
1700
1650
1600

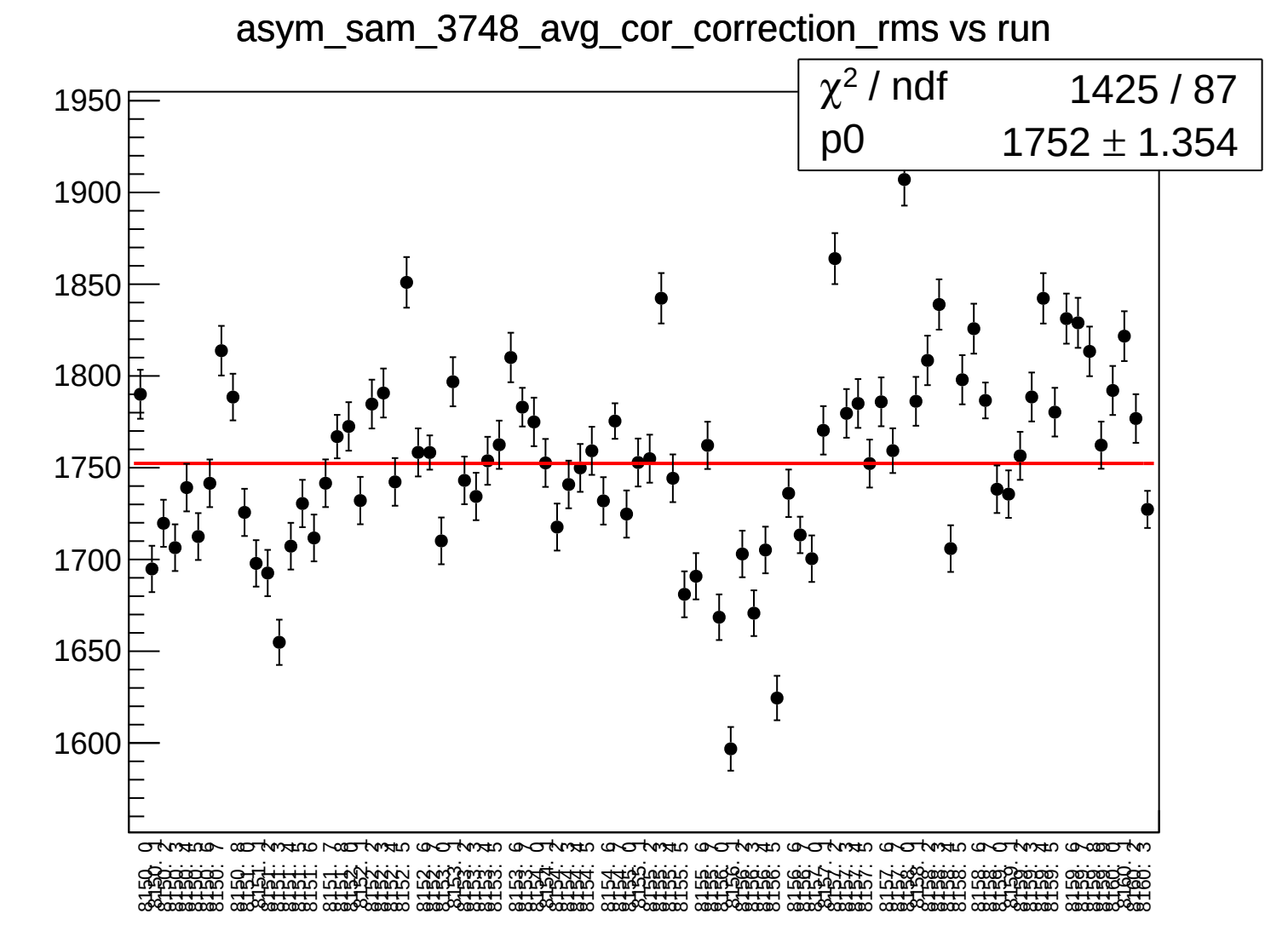

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 78.89 / 87
p0 246.3 ± 128.5
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −1496
Std Dev 0
2
1
0
−1
−2
−3

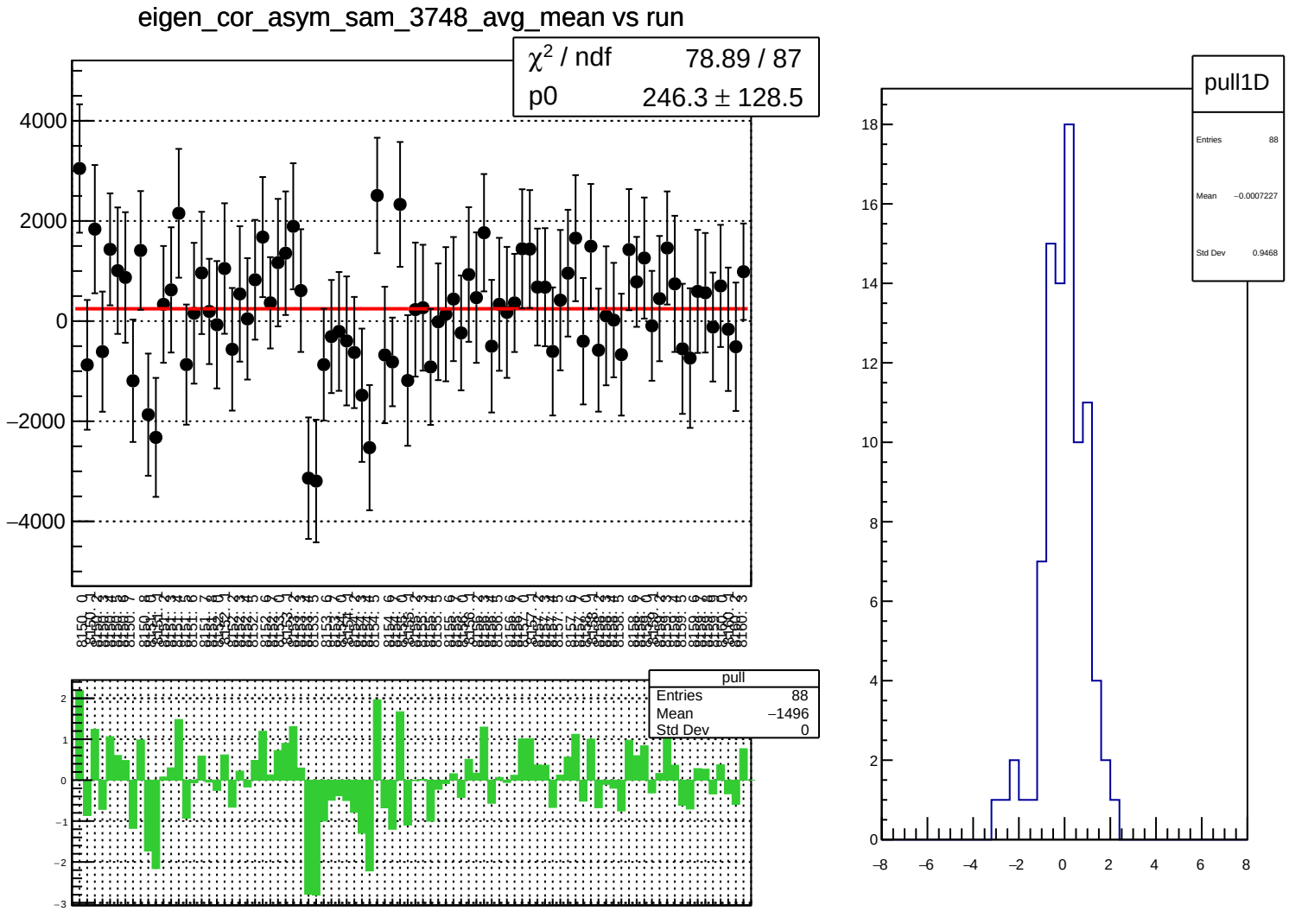

pull1D
Entries 88
Mean −0.0007227
Std Dev 0.9468
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

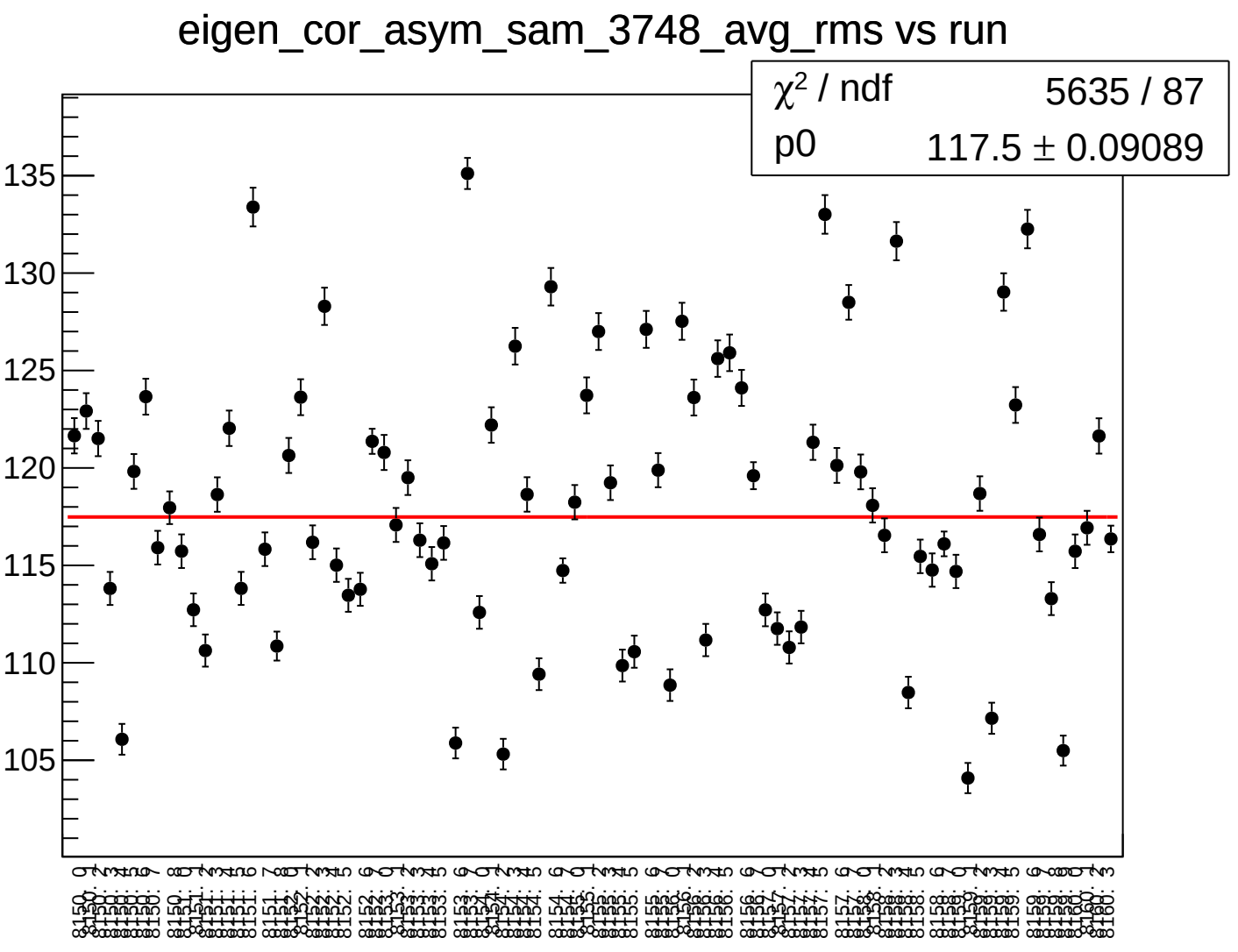

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 5635 / 87
p0 117.5 ± 0.09089
135
130
125
120
115
110
105

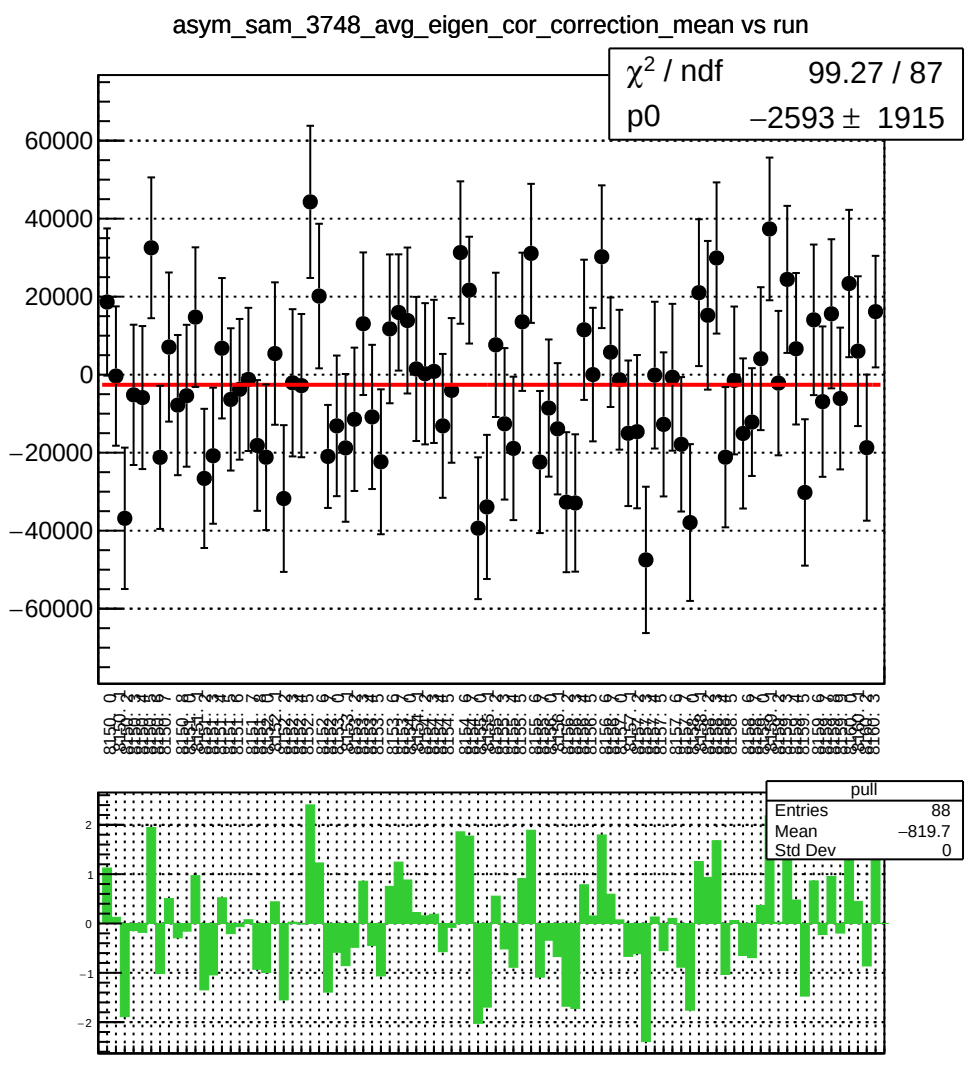

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 99.27 / 87
p0 −2593 ± 1915
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −819.7
Std Dev 0
2
1
0
−1
−2

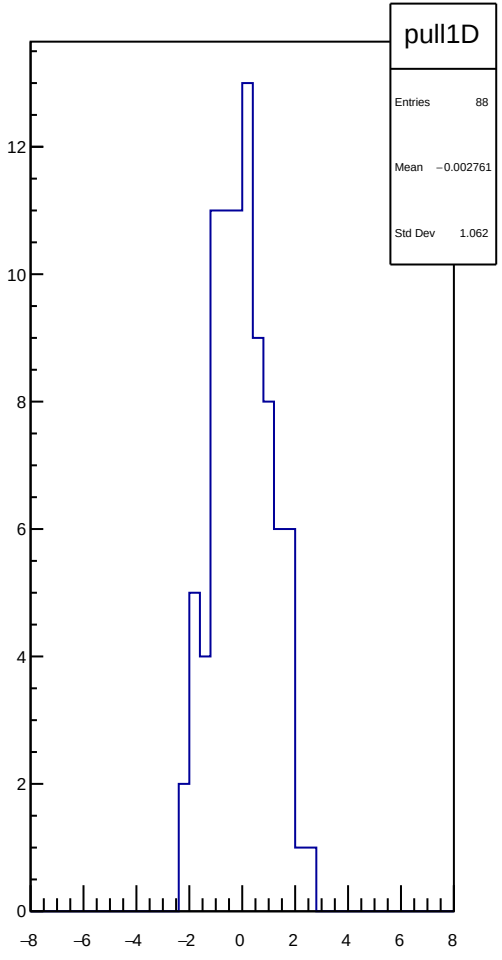

pull1D
Entries 88
Mean −0.002761
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

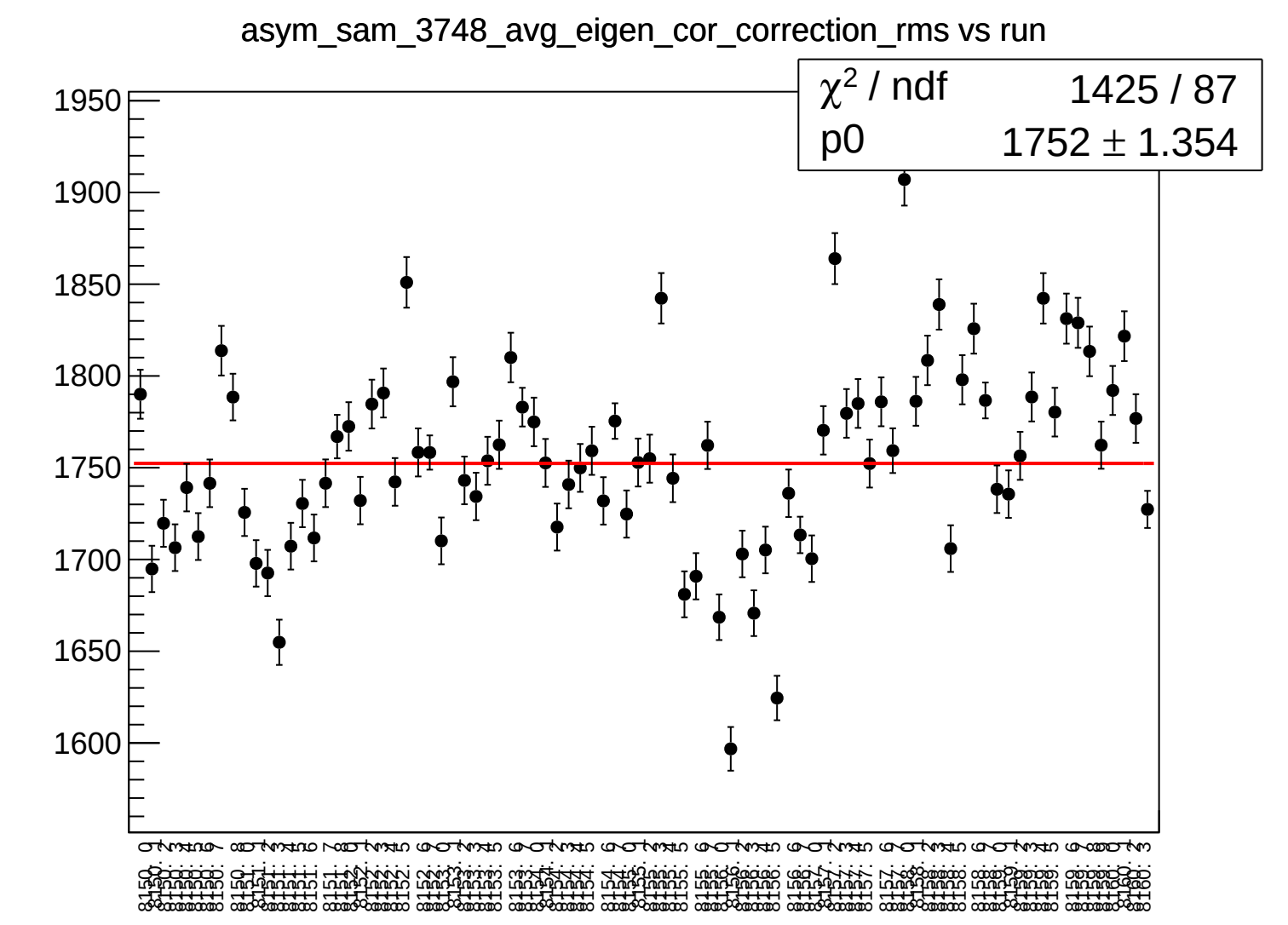

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1425 / 87
p0 1752 ± 1.354
1950
1900
1850
1800
1750
1700
1650
1600

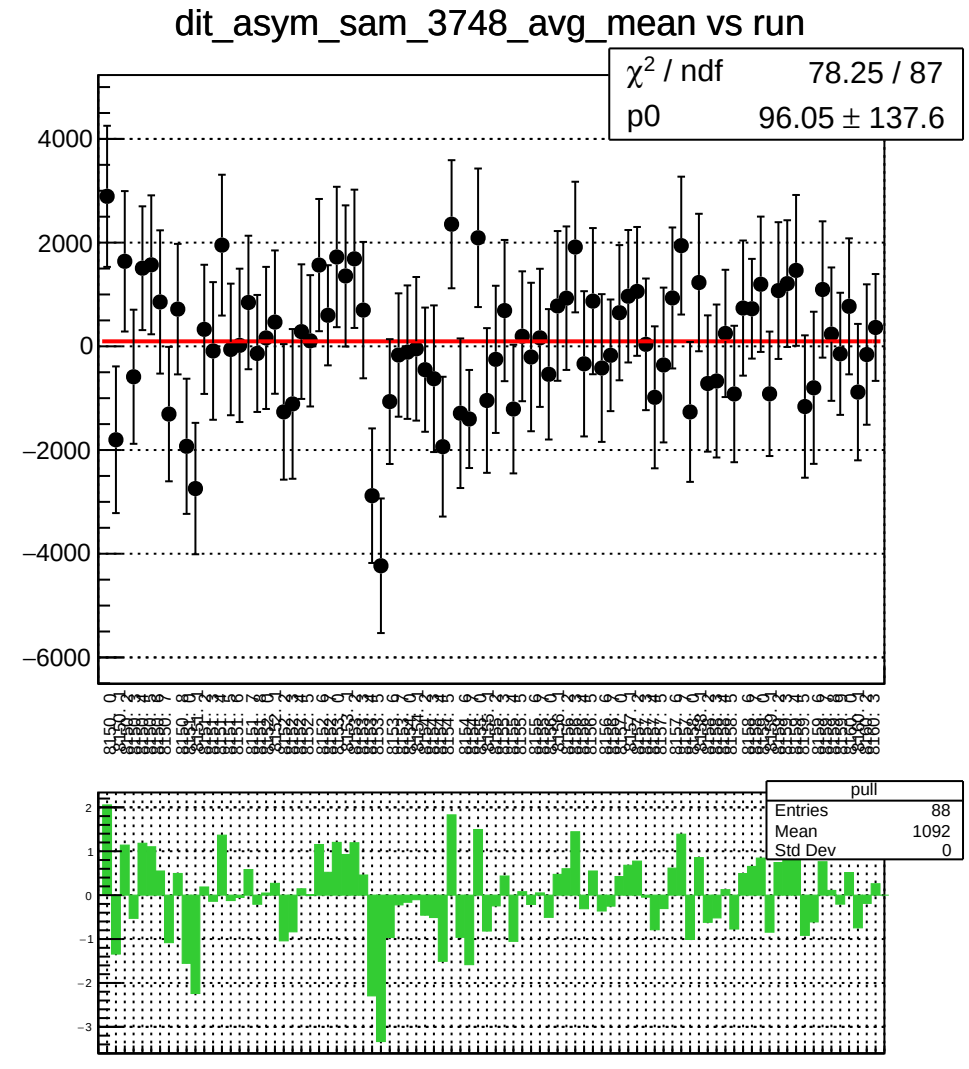

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 78.89 / 87
p0 246.3 ± 128.5
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −1496
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.0007227
Std Dev 0.9468
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

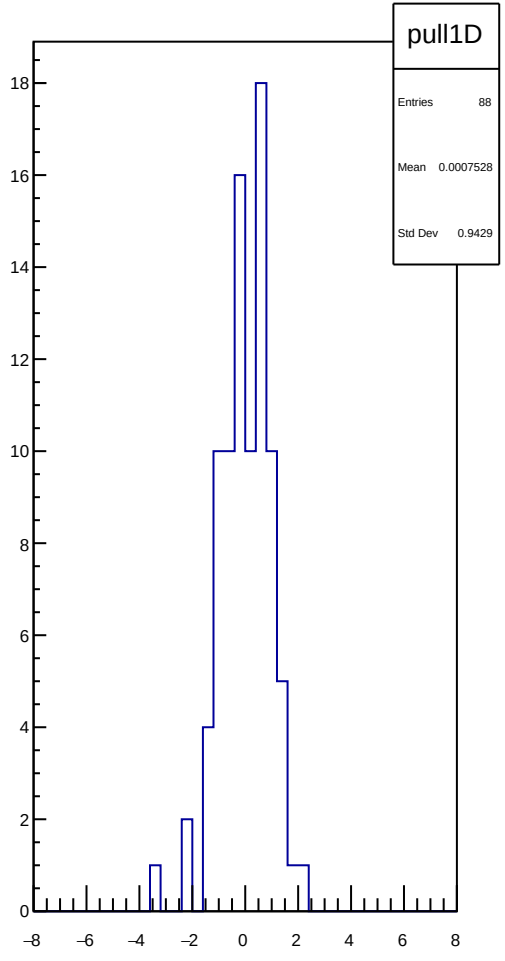

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 5635 / 87
p0 117.5 ± 0.09089
135
130
125
120
115
110
105

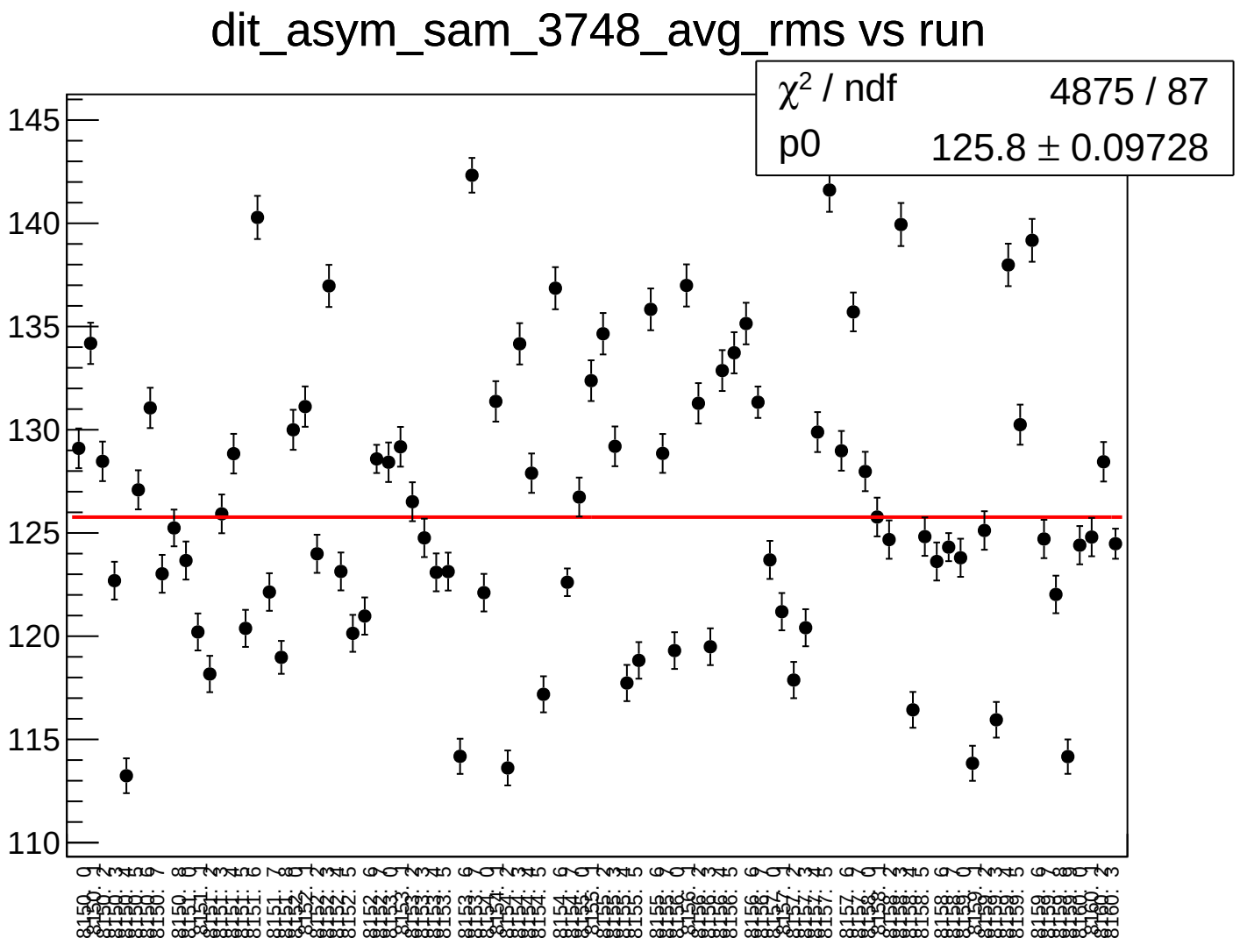

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.27 / 87
p0 −2593 ± 1915
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −819.7
Std Dev 0
2
1
0
−1
−2

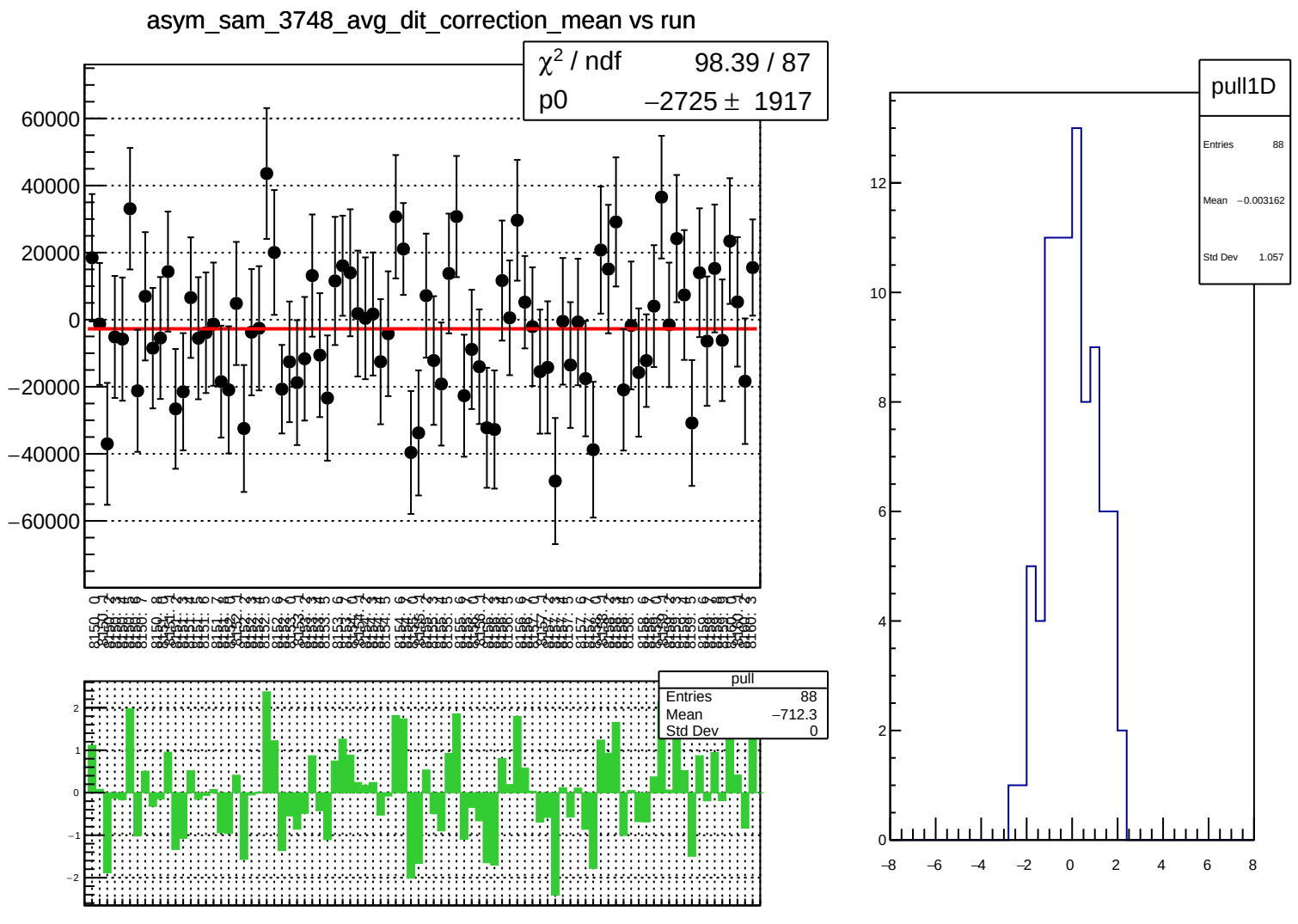

pull1D
Entries 88
Mean −0.002761
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

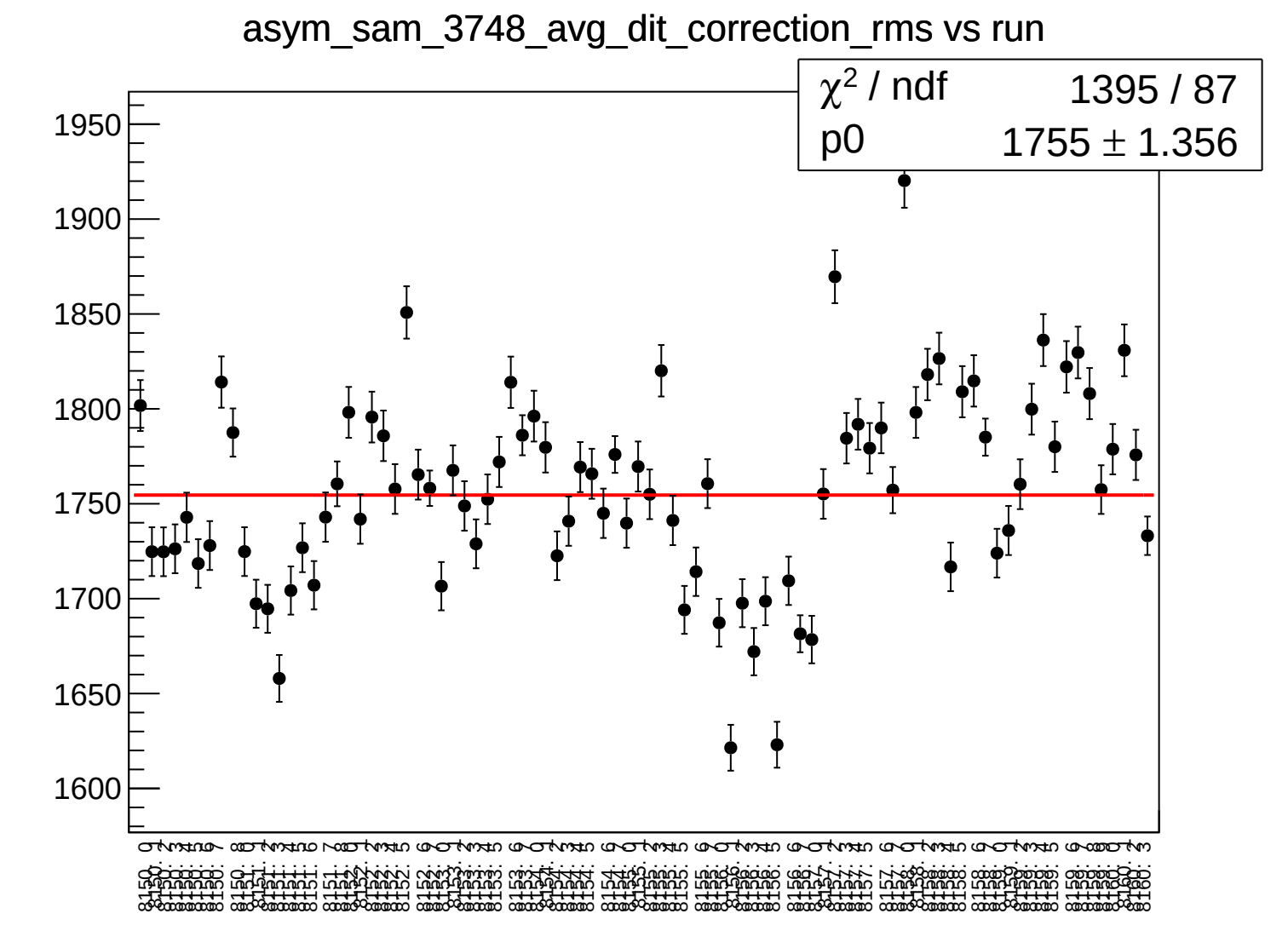

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1425 / 87
p0 1752 ± 1.354
1950
1900
1850
1800
1750
1700
1650
1600

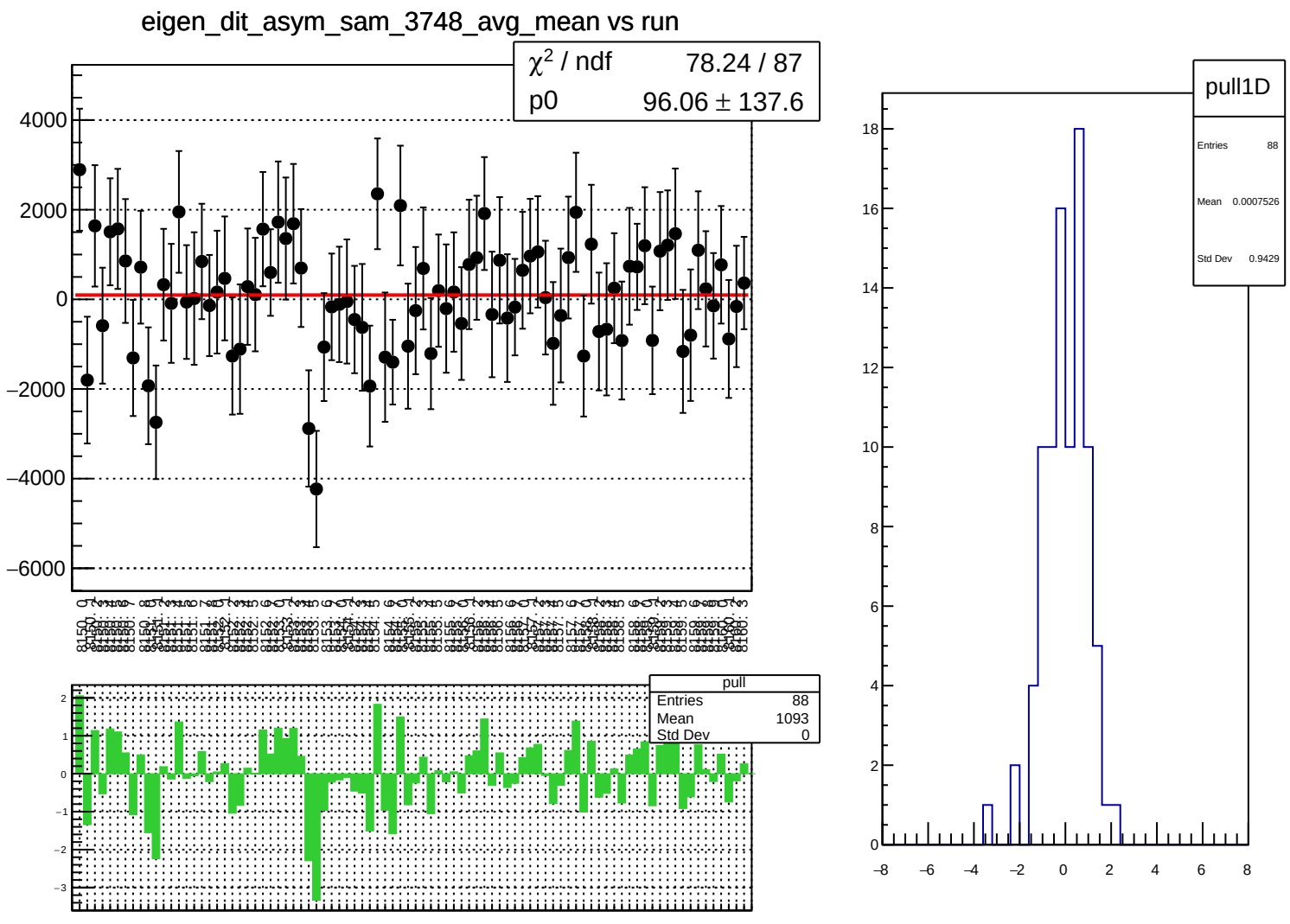

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 78.25 / 87
p0 96.05 ± 137.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 1092
Std Dev 0
2
1
0
−1
−2
−3

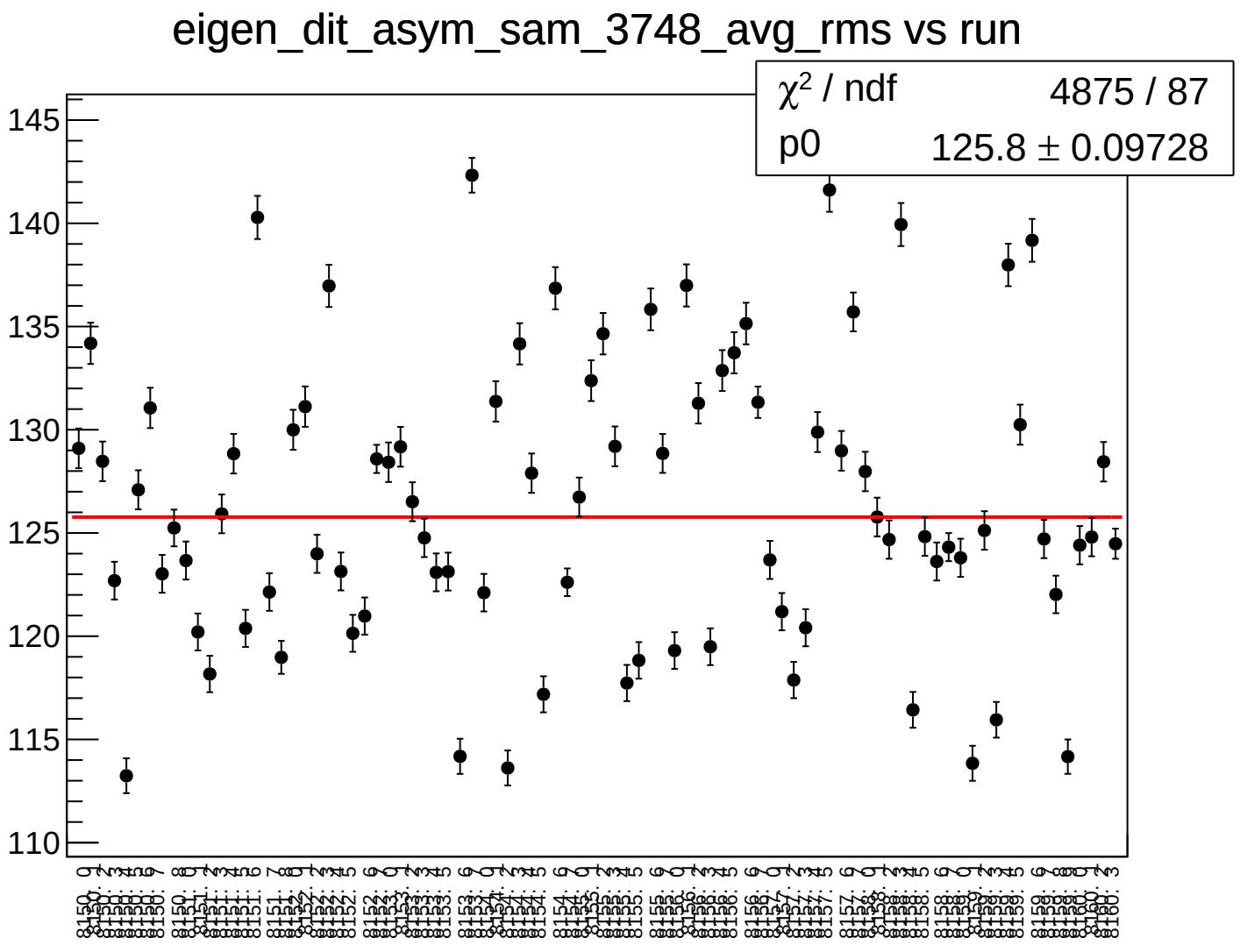

pull1D
Entries 88
Mean 0.0007528
Std Dev 0.9429
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

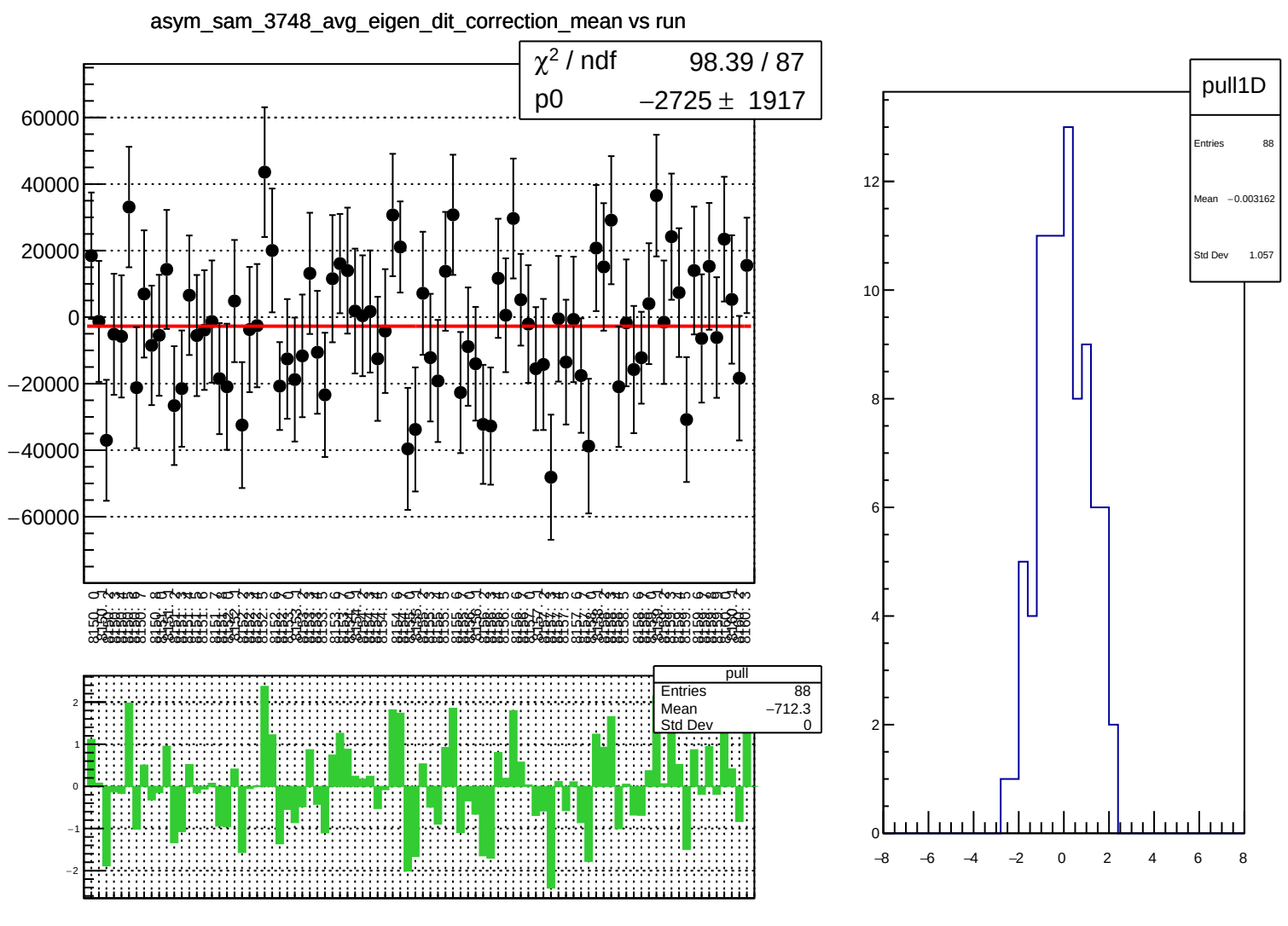

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 4875 / 87
p0 125.8 ± 0.09728
145
140
135
130
125
120
115
110

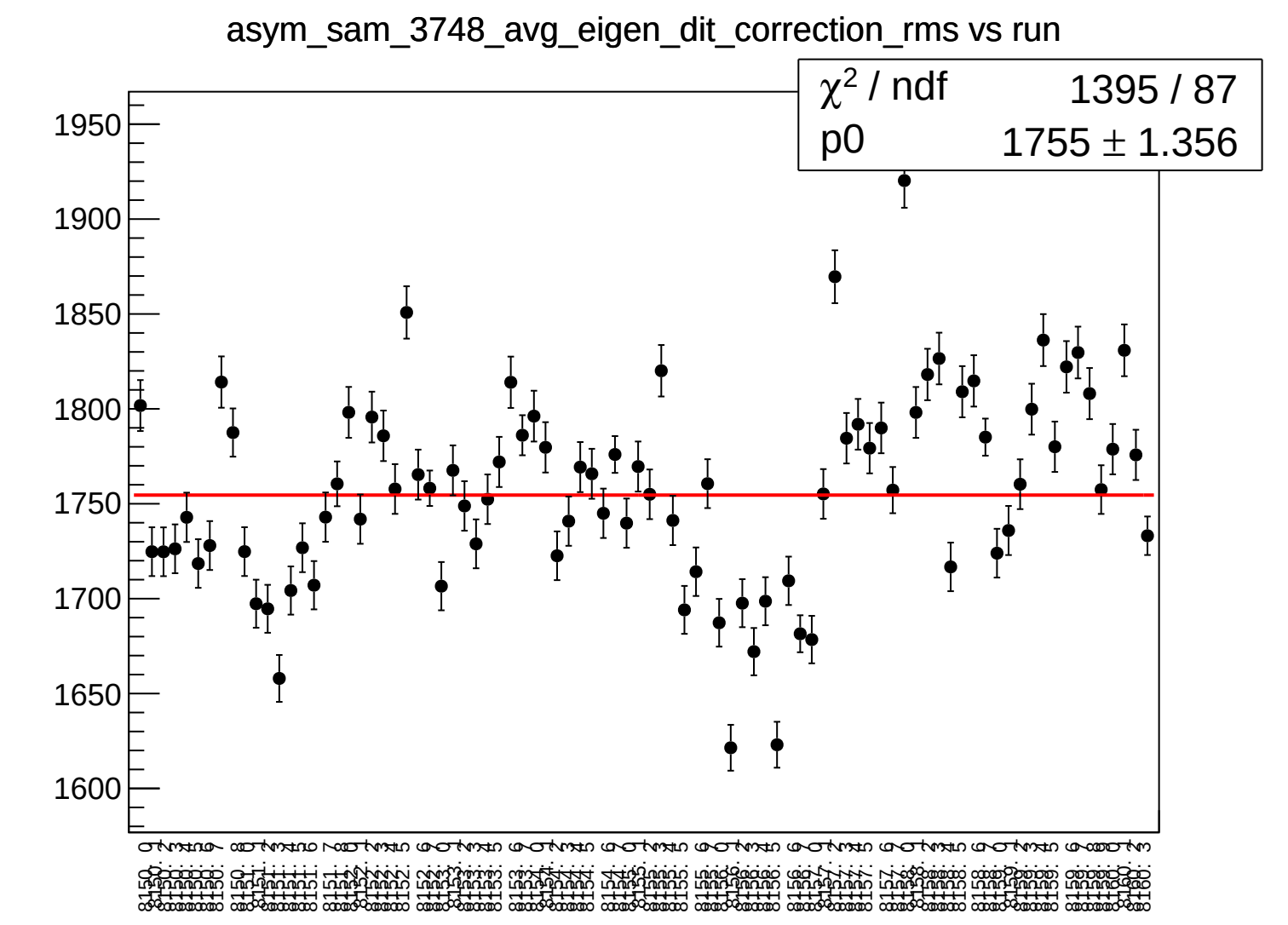

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 98.39 / 87
p0 −2725 ± 1917
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −712.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003162
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

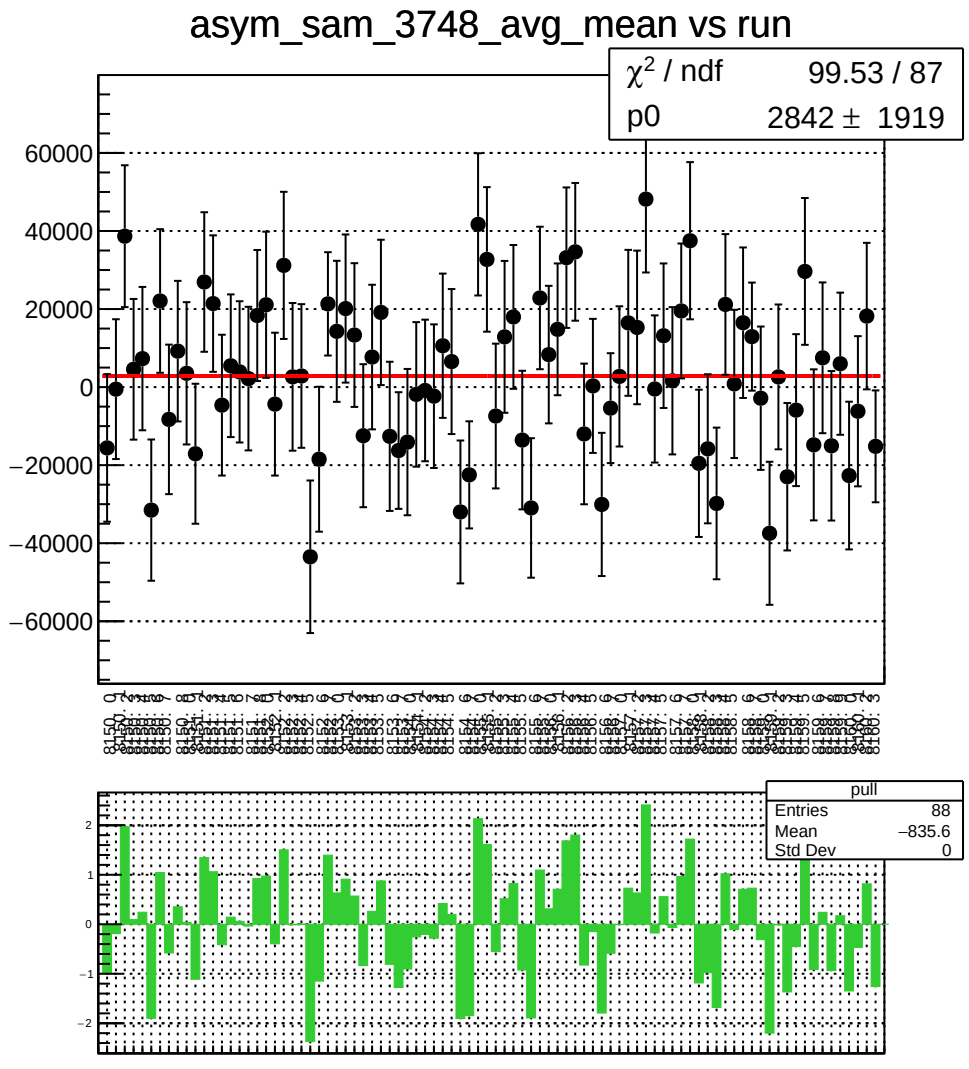

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1395 / 87
p0 1755 ± 1.356
1950
1900
1850
1800
1750
1700
1650
1600

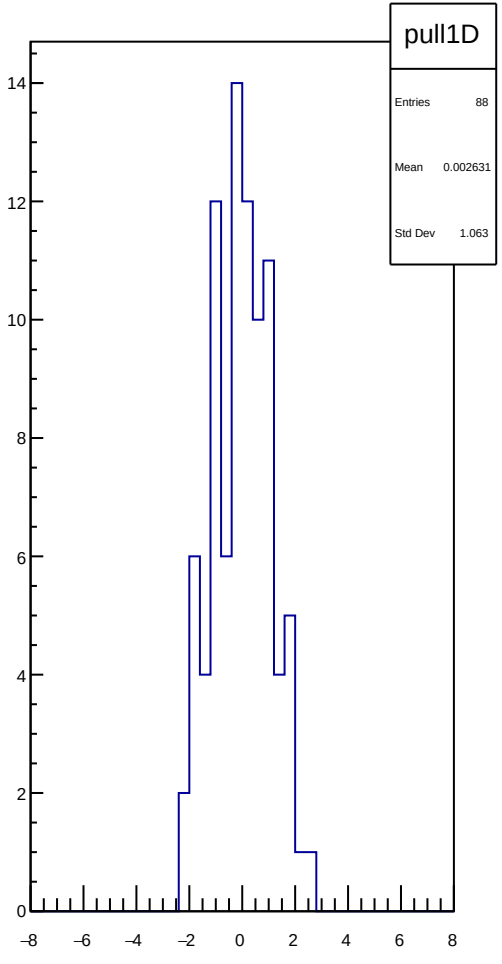

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 78.24 / 87
p0 96.06 ± 137.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 1093
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0007526
Std Dev 0.9429
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

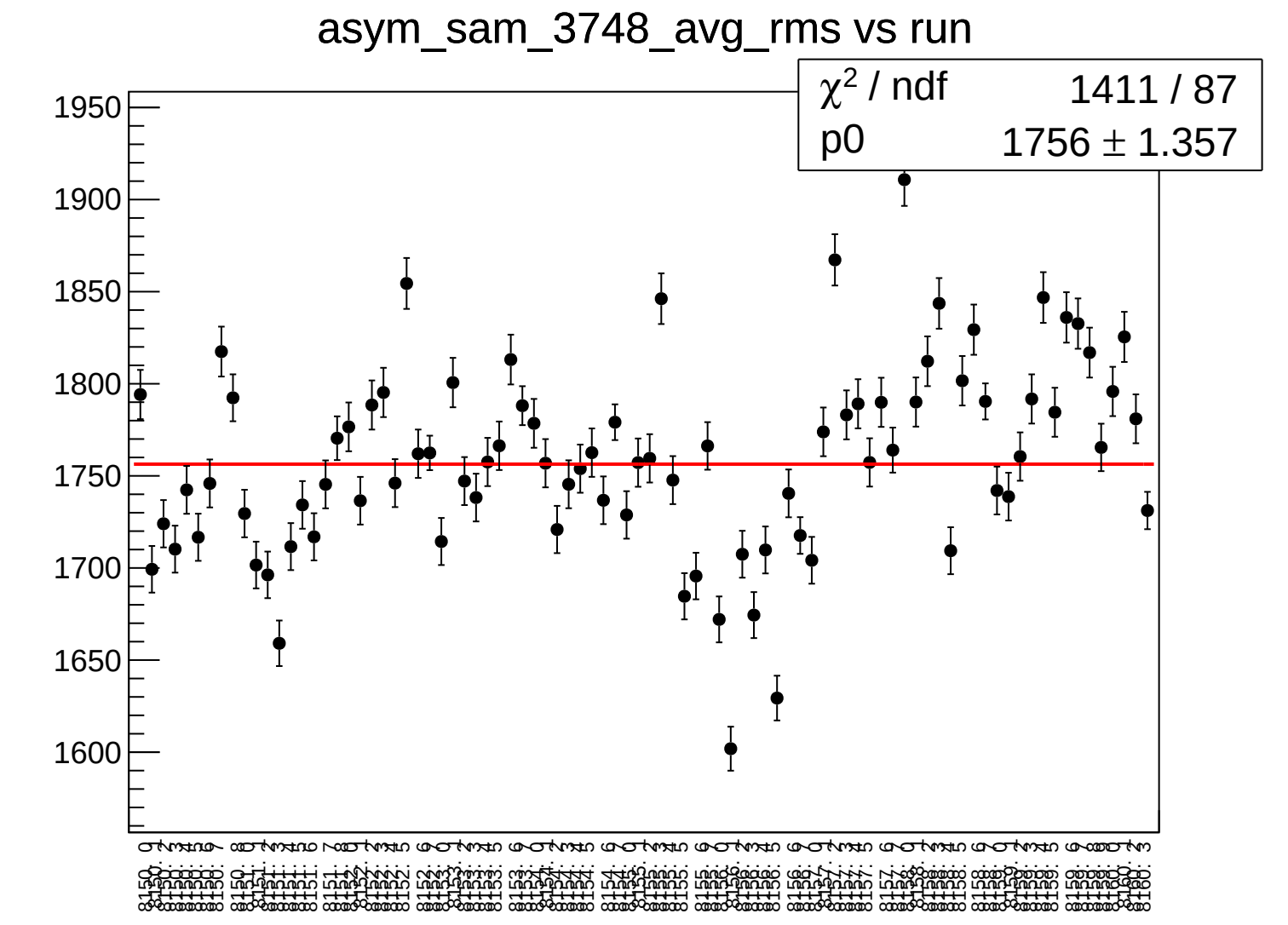

eigen_dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 4875 / 87
p0 125.8 ± 0.09728
145
140
135
130
125
120
115
110

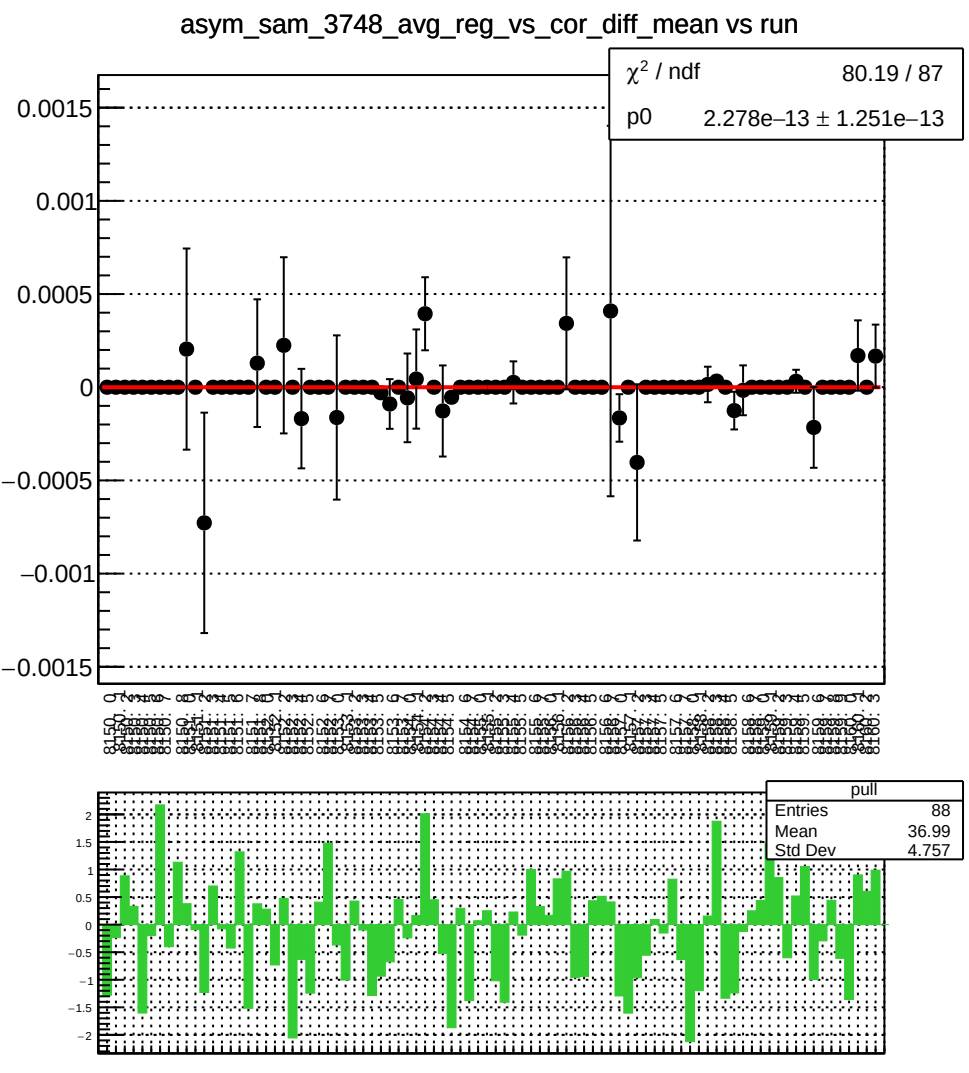

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.39 / 87
p0 −2725 ± 1917
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −712.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003162
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

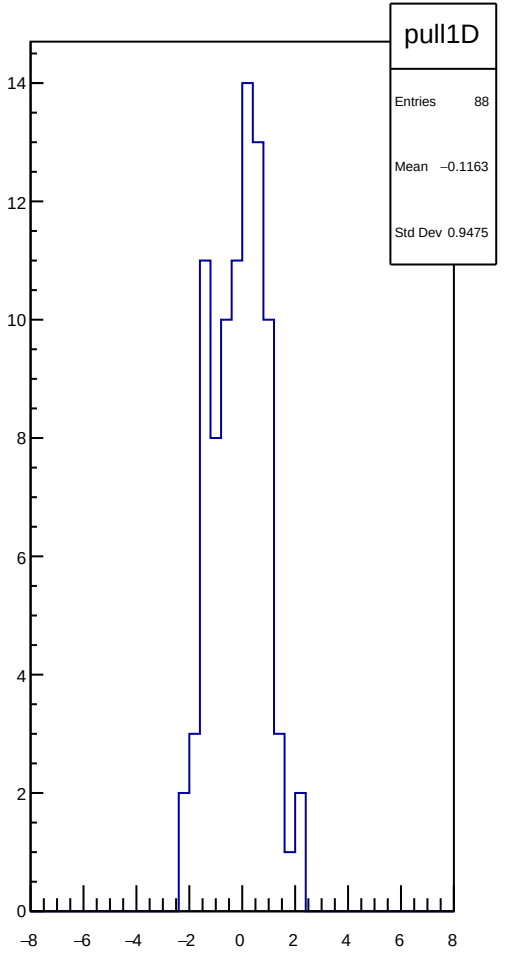

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1395 / 87
p0 1755 ± 1.356
1950
1900
1850
1800
1750
1700
1650
1600

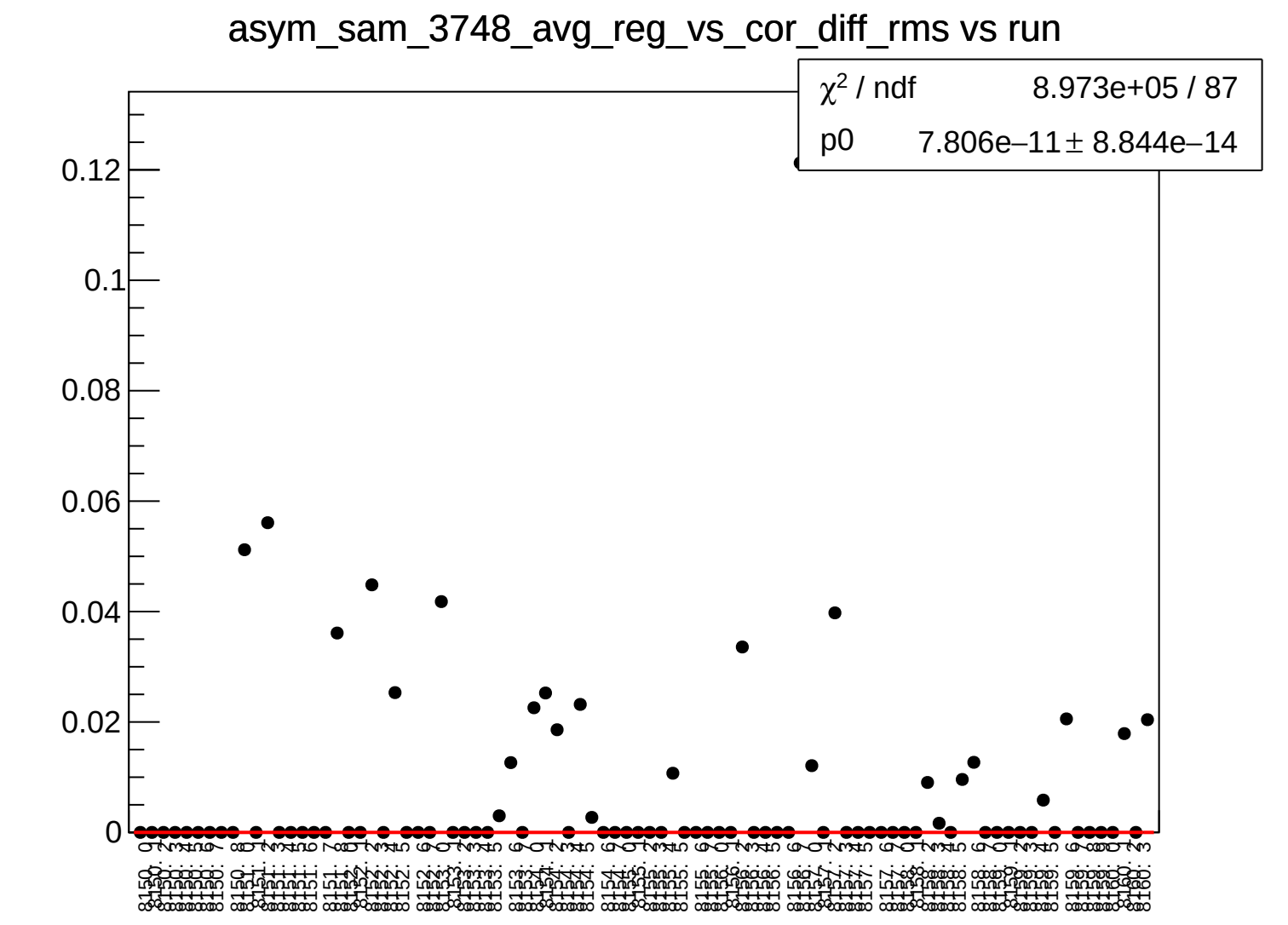

asym_sam_3748_avg_mean vs run
χ² / ndf 99.53 / 87
p0 2842 ± 1919
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −835.6
Std Dev 0
2
1
0
−1
−2

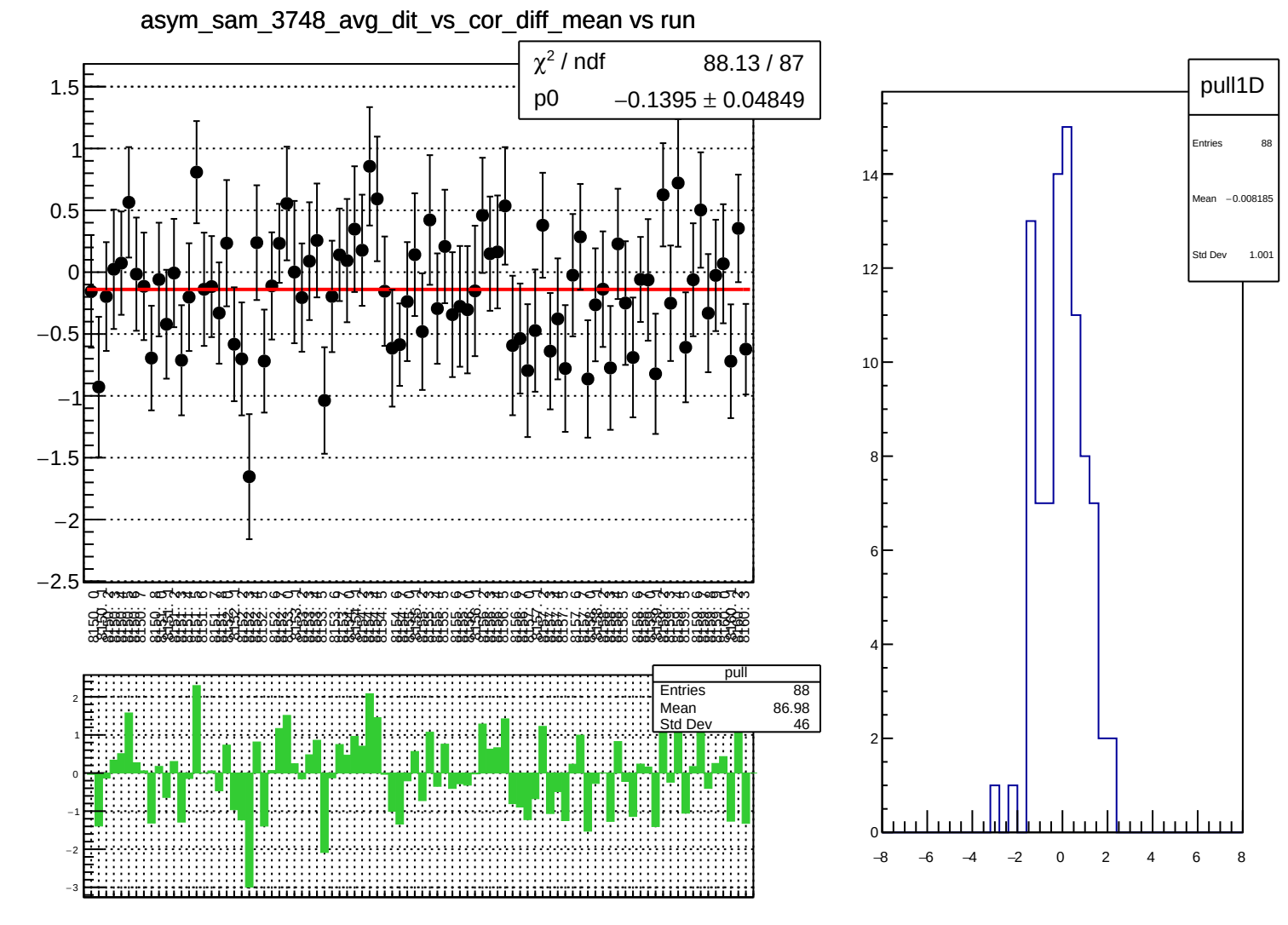

pull1D
Entries 88
Mean 0.002631
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

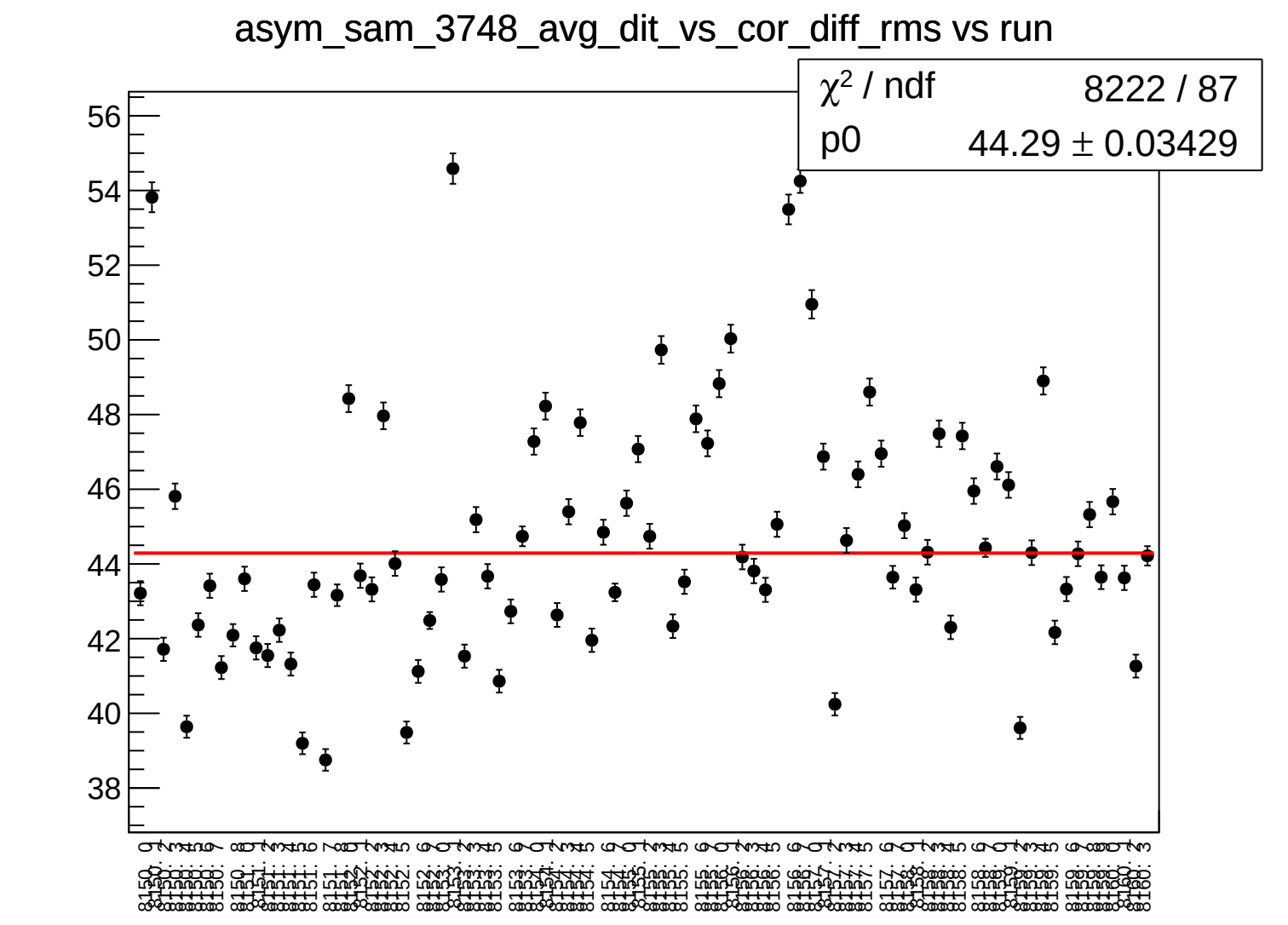

asym_sam_3748_avg_rms vs run
χ^2 / ndf 1411 / 87
p0 1756 ± 1.357
1950
1900
1850
1800
1750
1700
1650
1600

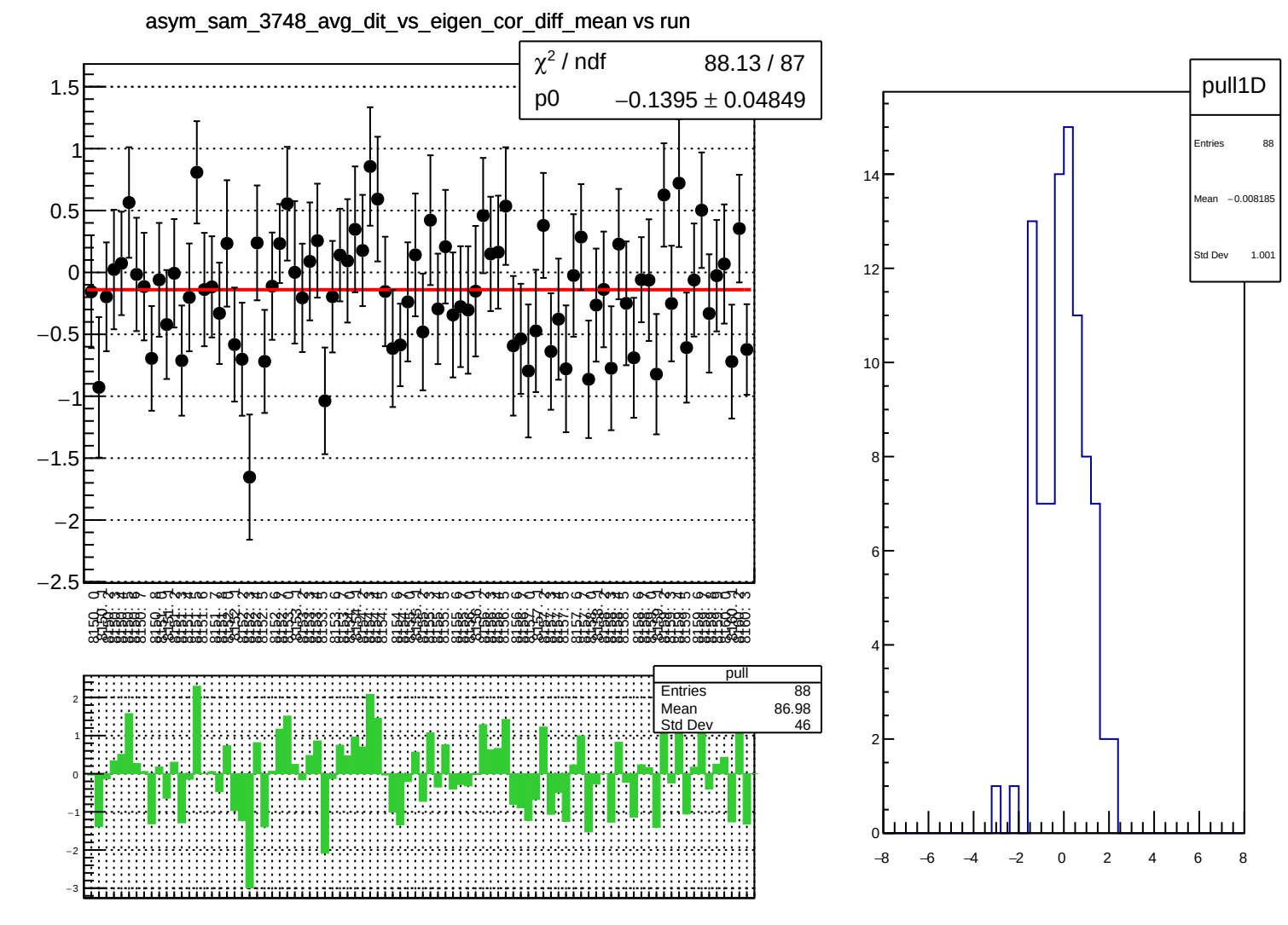

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.19 / 87
p0 2.278e−13 ± 1.251e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 36.99
Std Dev 4.757
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

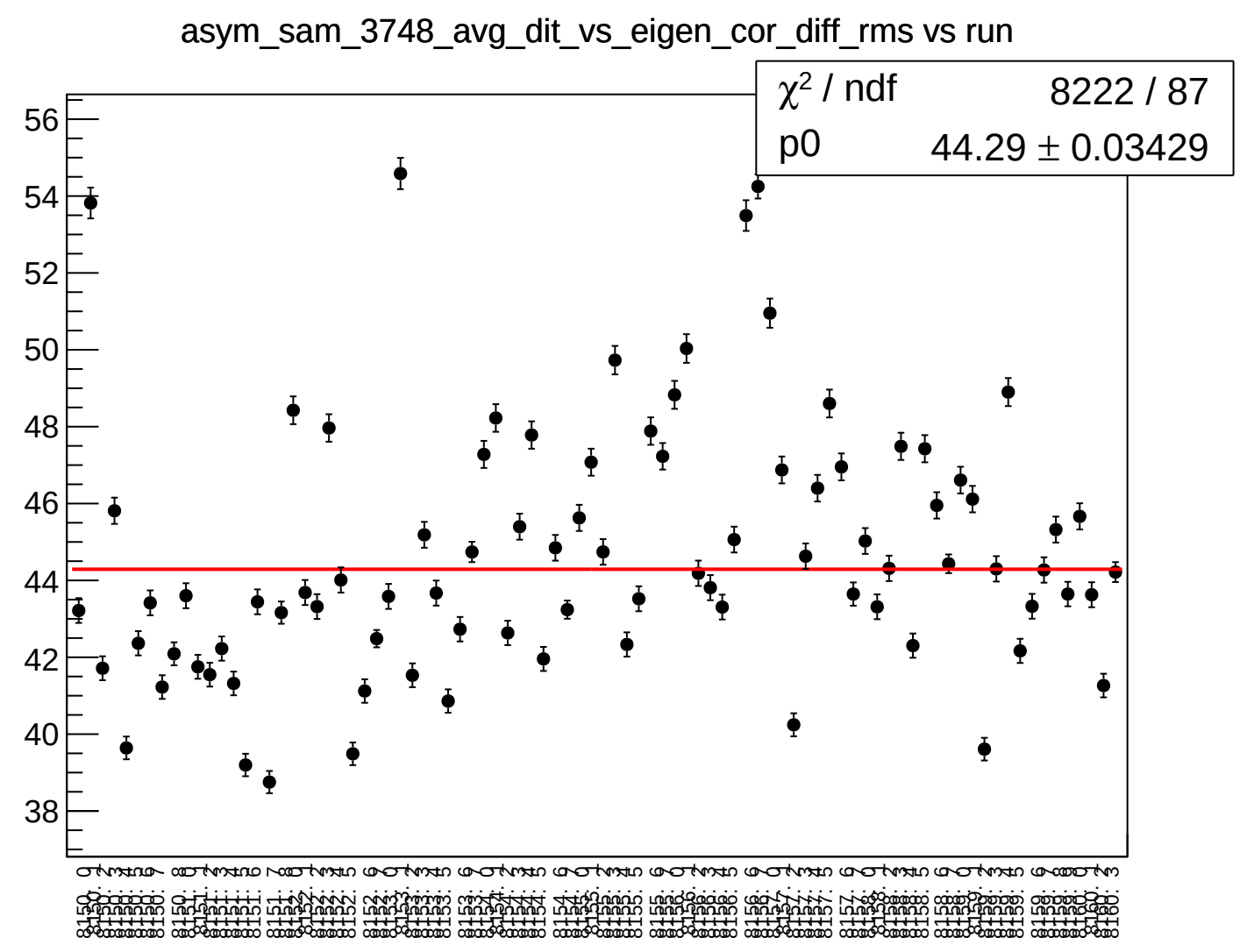

pull1D
Entries 88
Mean −0.1163
Std Dev 0.9475
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

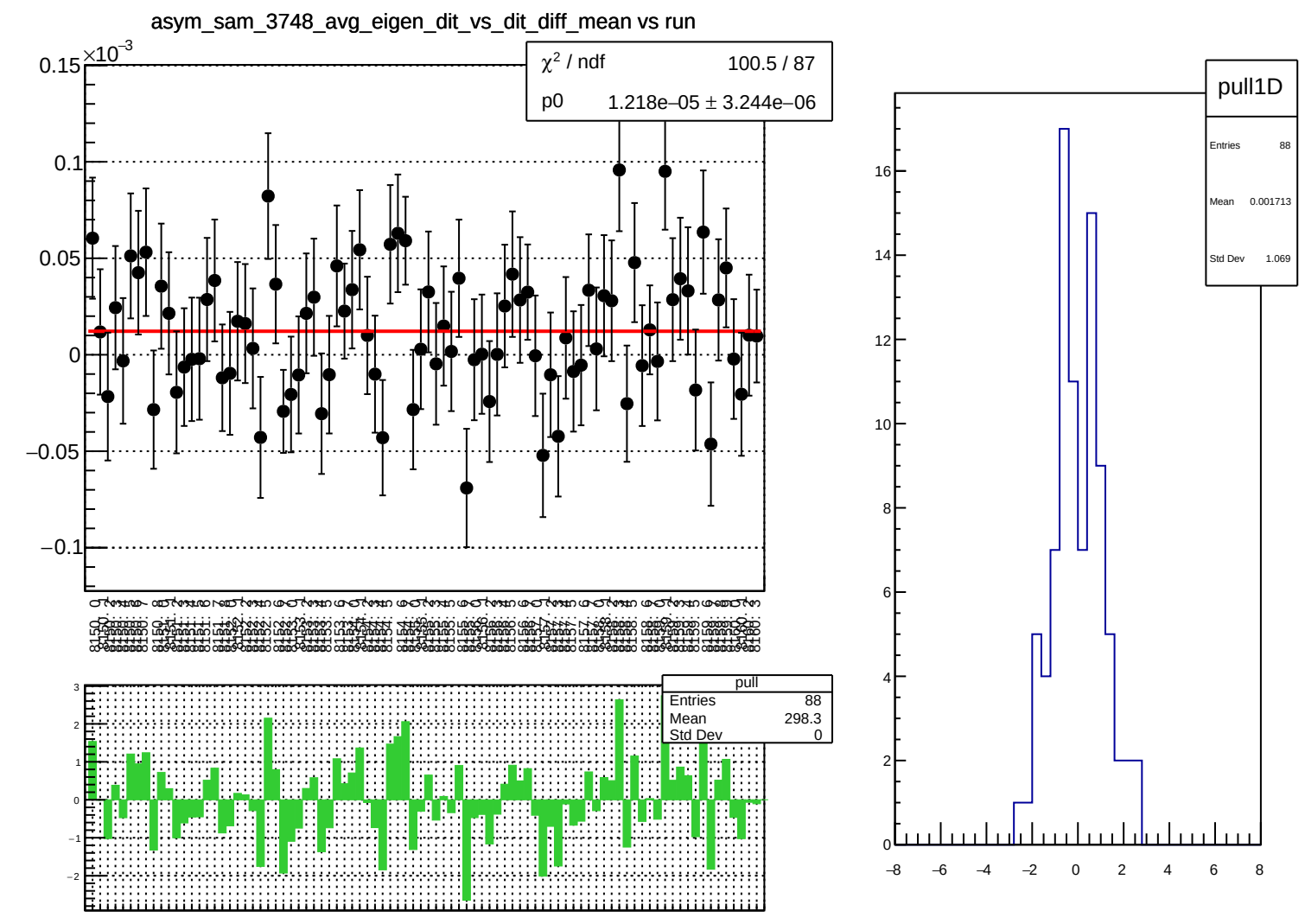

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.973e+05 / 87
p0 7.806e−11 ± 8.844e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

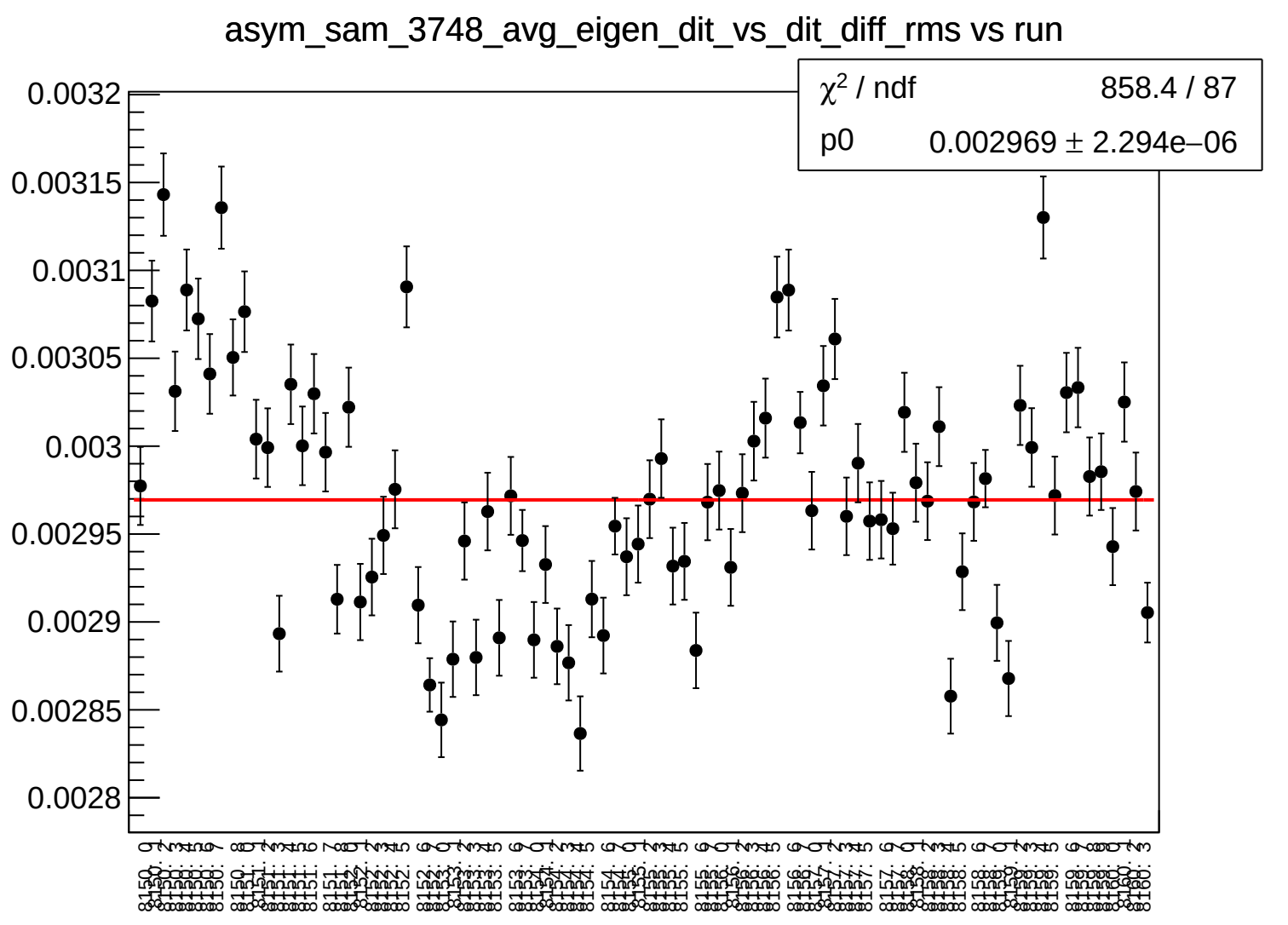

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.13 / 87
p0 −0.1395 ± 0.04849
pull
Entries 88
Mean 86.98
Std Dev 46
pull1D
Entries 88
Mean −0.008185
Std Dev 1.001

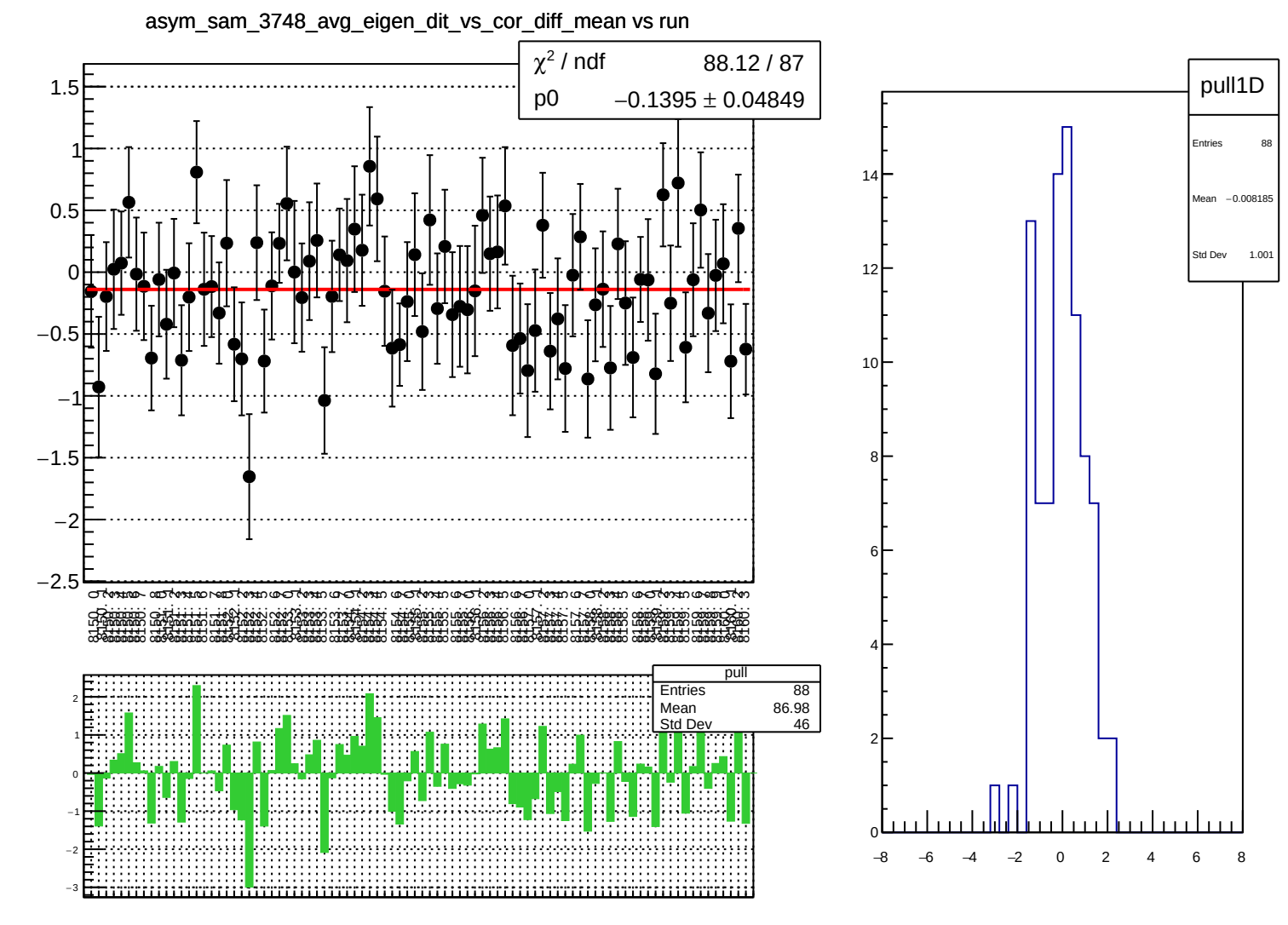

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8222 / 87
p0 44.29 ± 0.03429
56
54
52
50
48
46
44
42
40
38

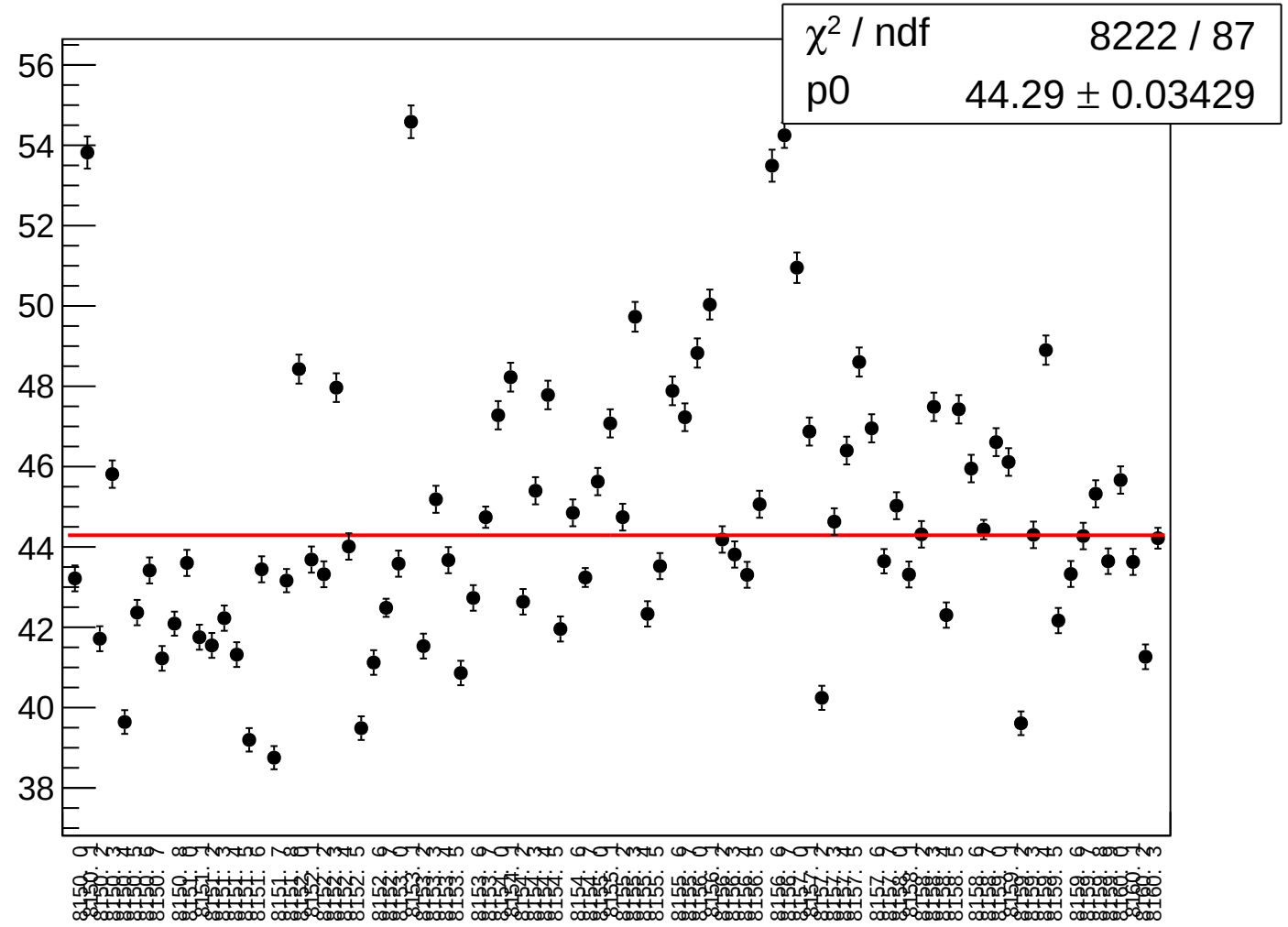

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.13 / 87
p0 −0.1395 ± 0.04849
pull
Entries 88
Mean 86.98
Std Dev 46
pull1D
Entries 88
Mean −0.008185
Std Dev 1.001

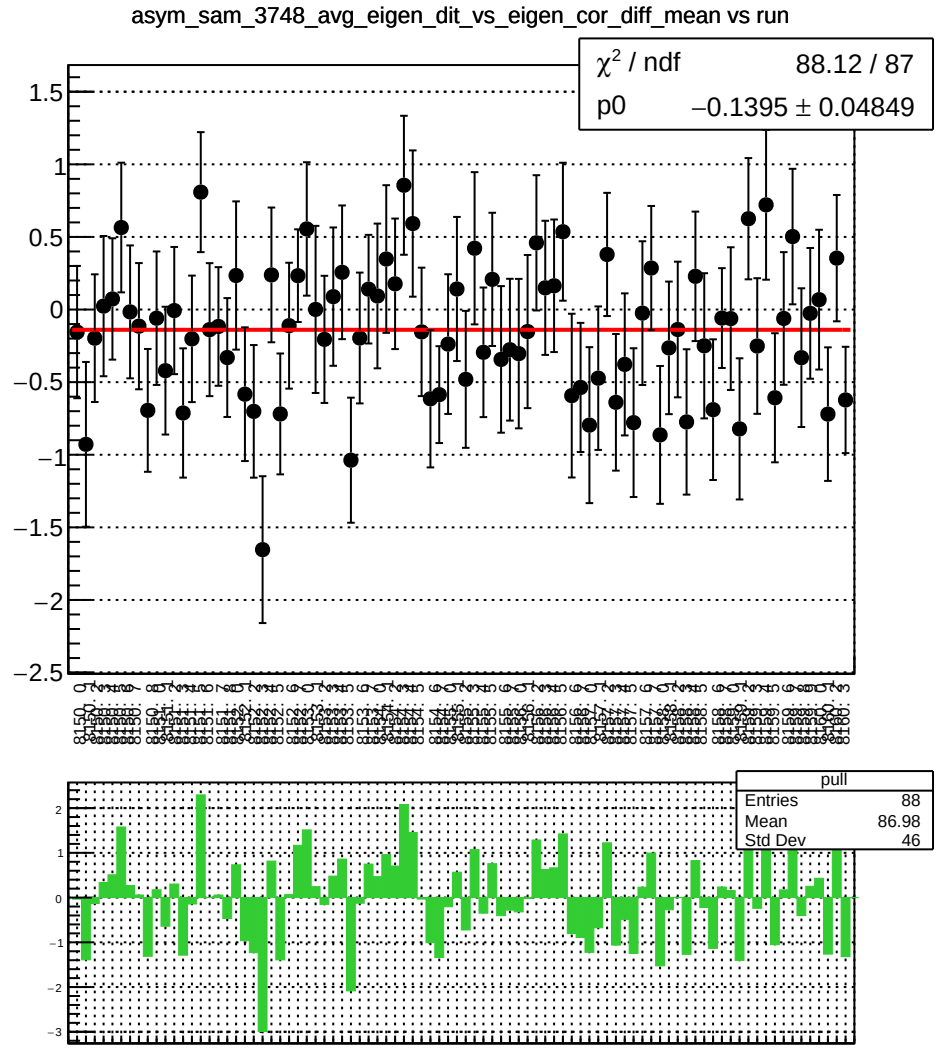

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8222 / 87
p0 44.29 ± 0.03429
56
54
52
50
48
46
44
42
40
38

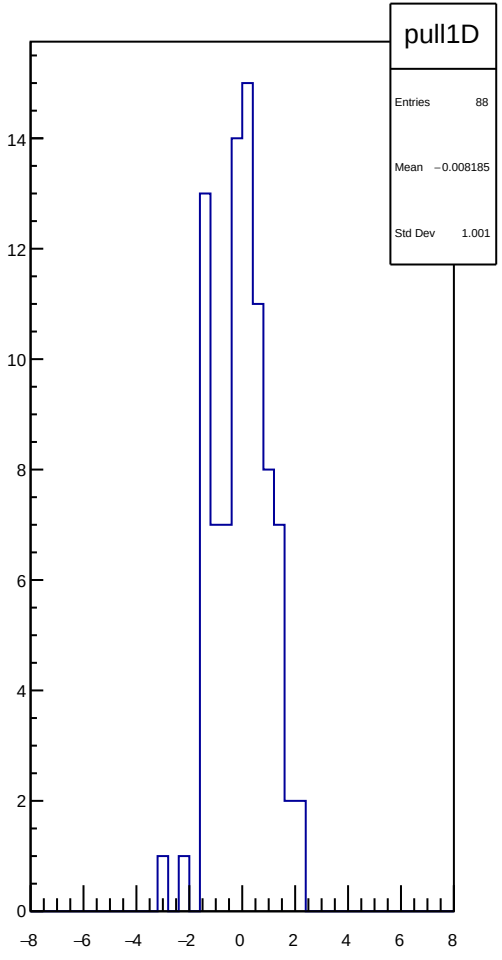

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.5 / 87
p0 1.218e−05 ± 3.244e−06
pull
Entries 88
Mean 298.3
Std Dev 0
pull1D
Entries 88
Mean 0.001713
Std Dev 1.069

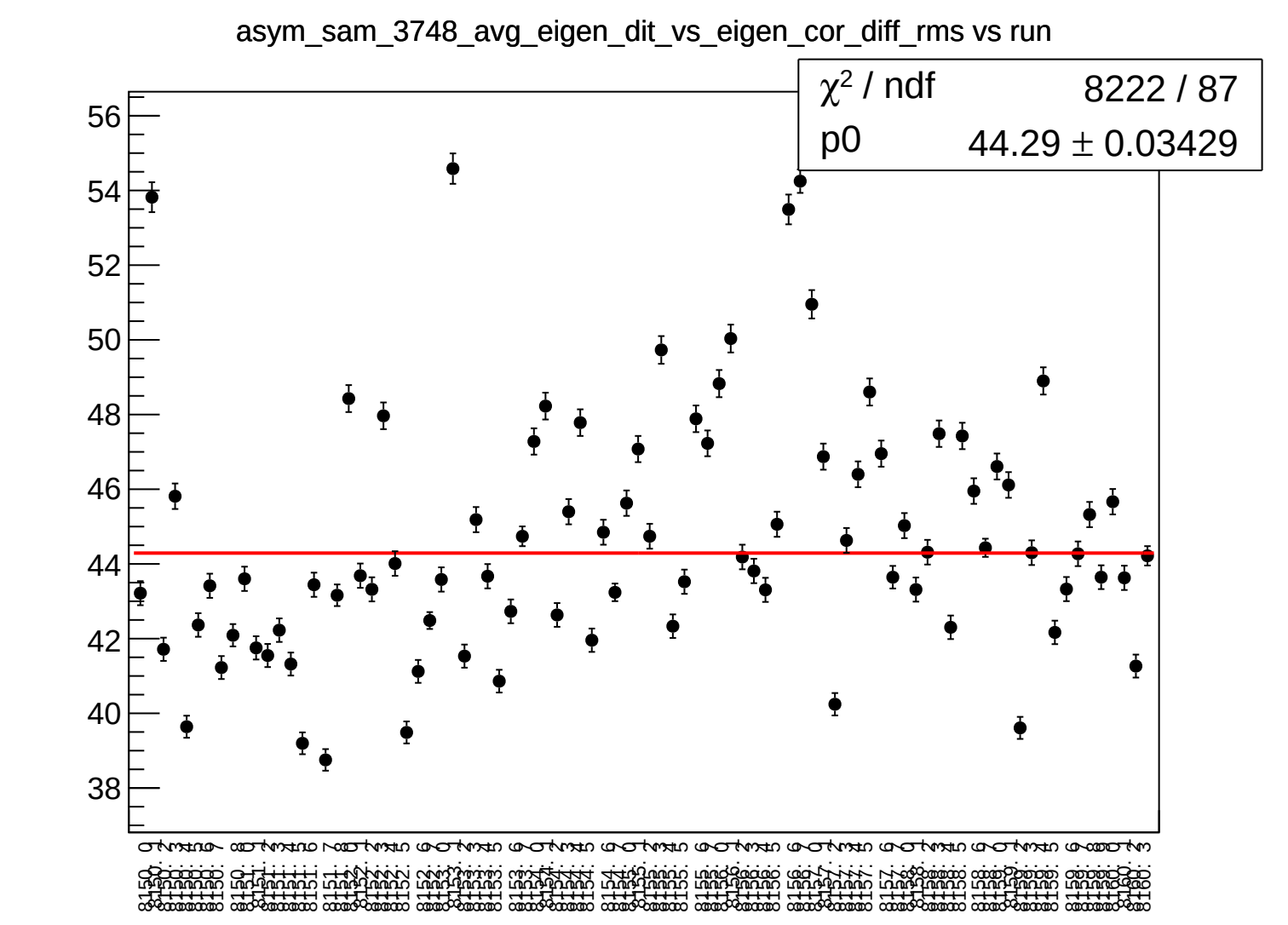

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 858.4 / 87
p0 0.002969 ± 2.294e−06
0.0032
0.00315
0.0031
0.00305
0.003
0.00295
0.0029
0.00285
0.0028

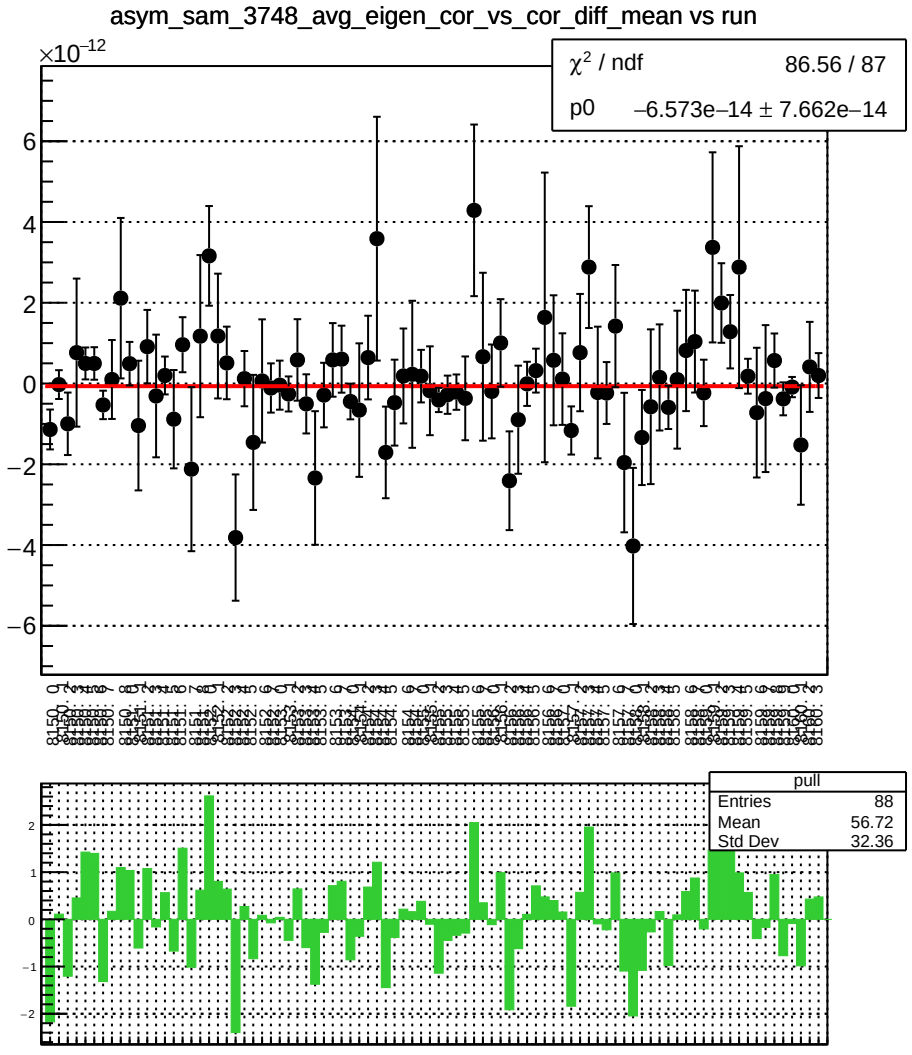

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.12 / 87
p0 −0.1395 ± 0.04849
pull
Entries 88
Mean 86.98
Std Dev 46
pull1D
Entries 88
Mean −0.008185
Std Dev 1.001

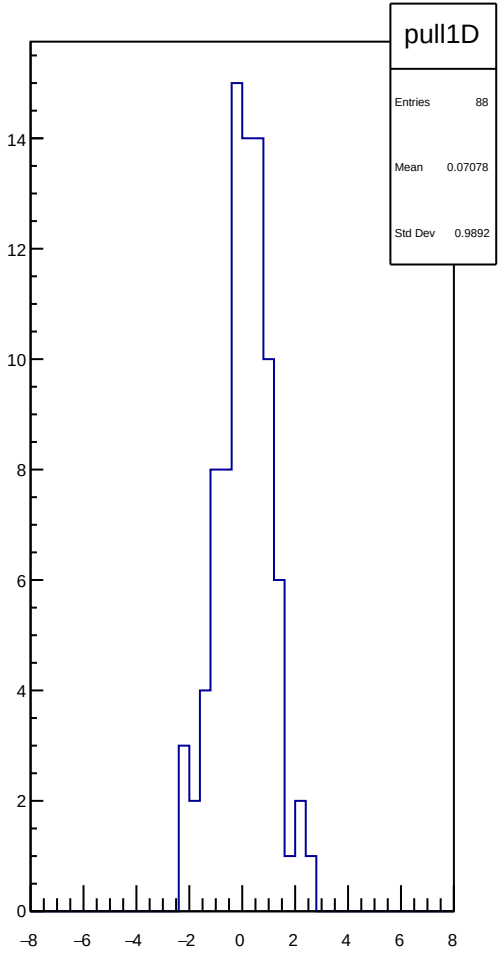

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8222 / 87
p0 44.29 ± 0.03429
56
54
52
50
48
46
44
42
40
38

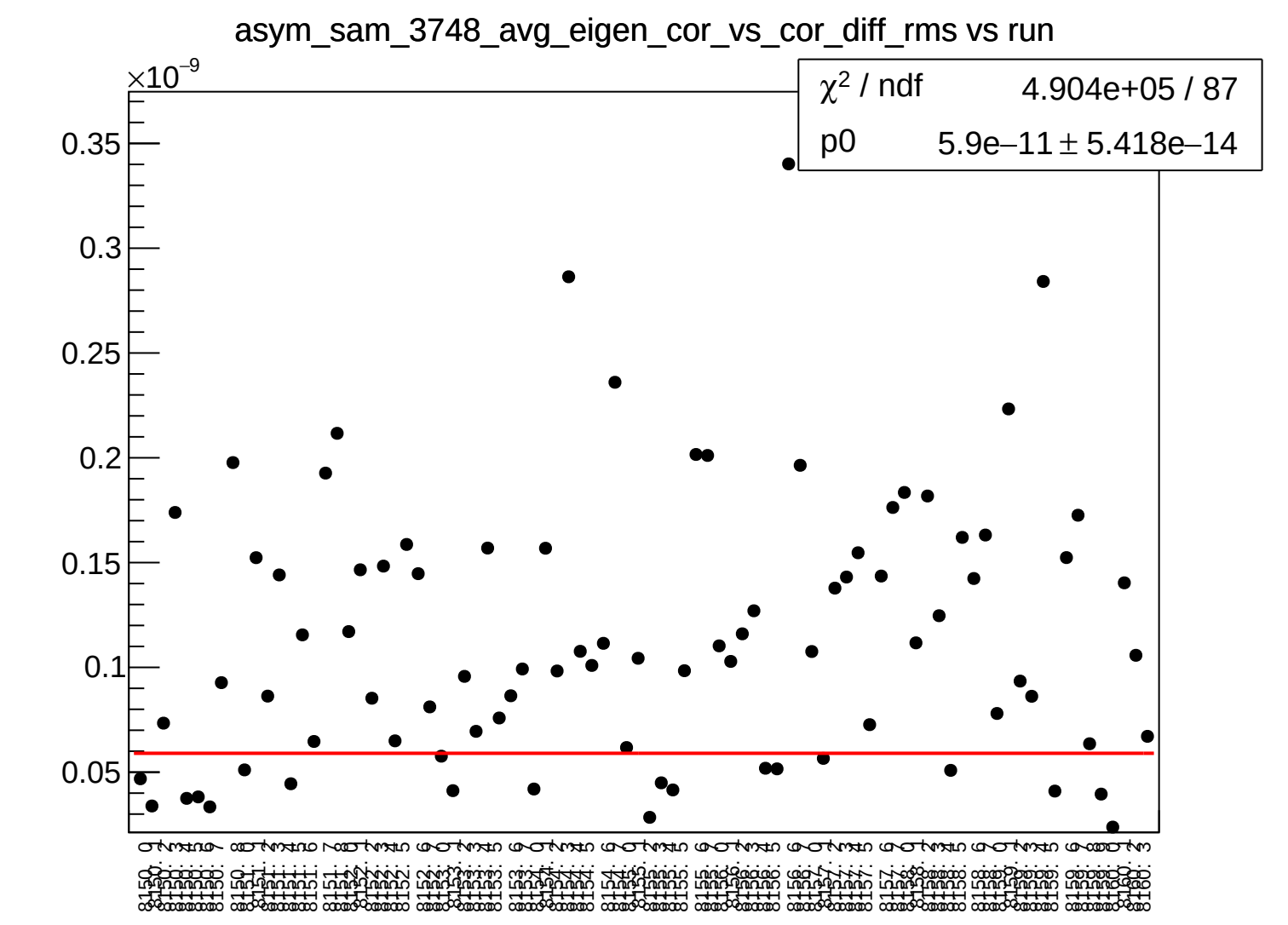

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.12 / 87
p0 −0.1395 ± 0.04849
pull
Entries 88
Mean 86.98
Std Dev 46

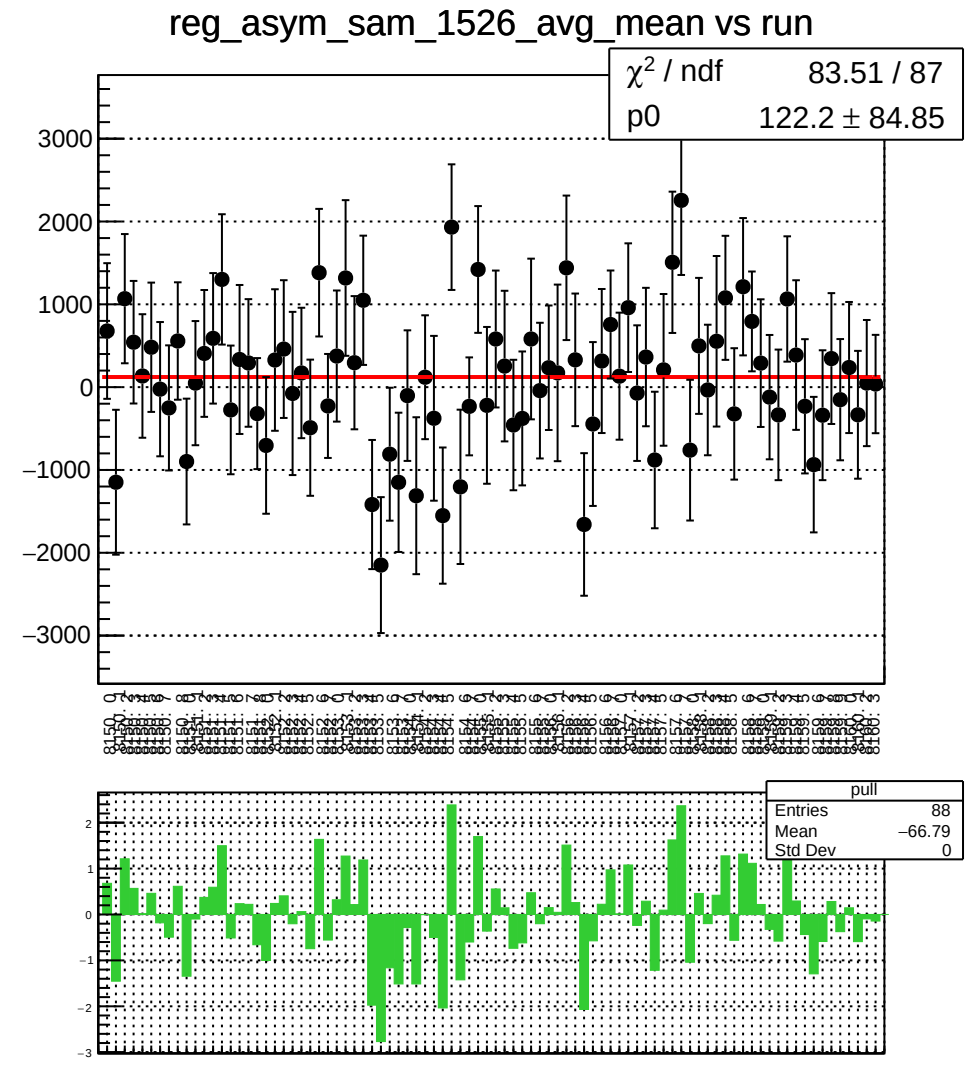

pull1D
Entries 88
Mean −0.008185
Std Dev 1.001

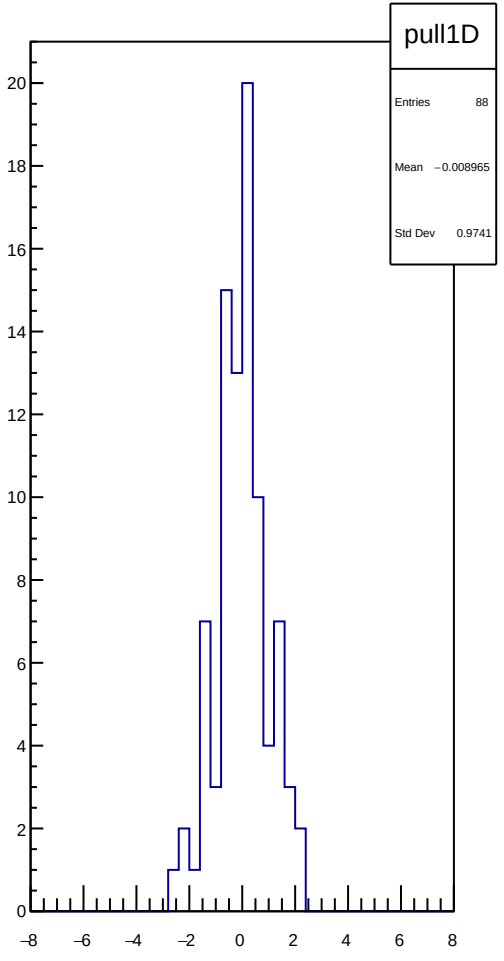

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8222 / 87
p0 44.29 ± 0.03429
56
54
52
50
48
46
44
42
40
38

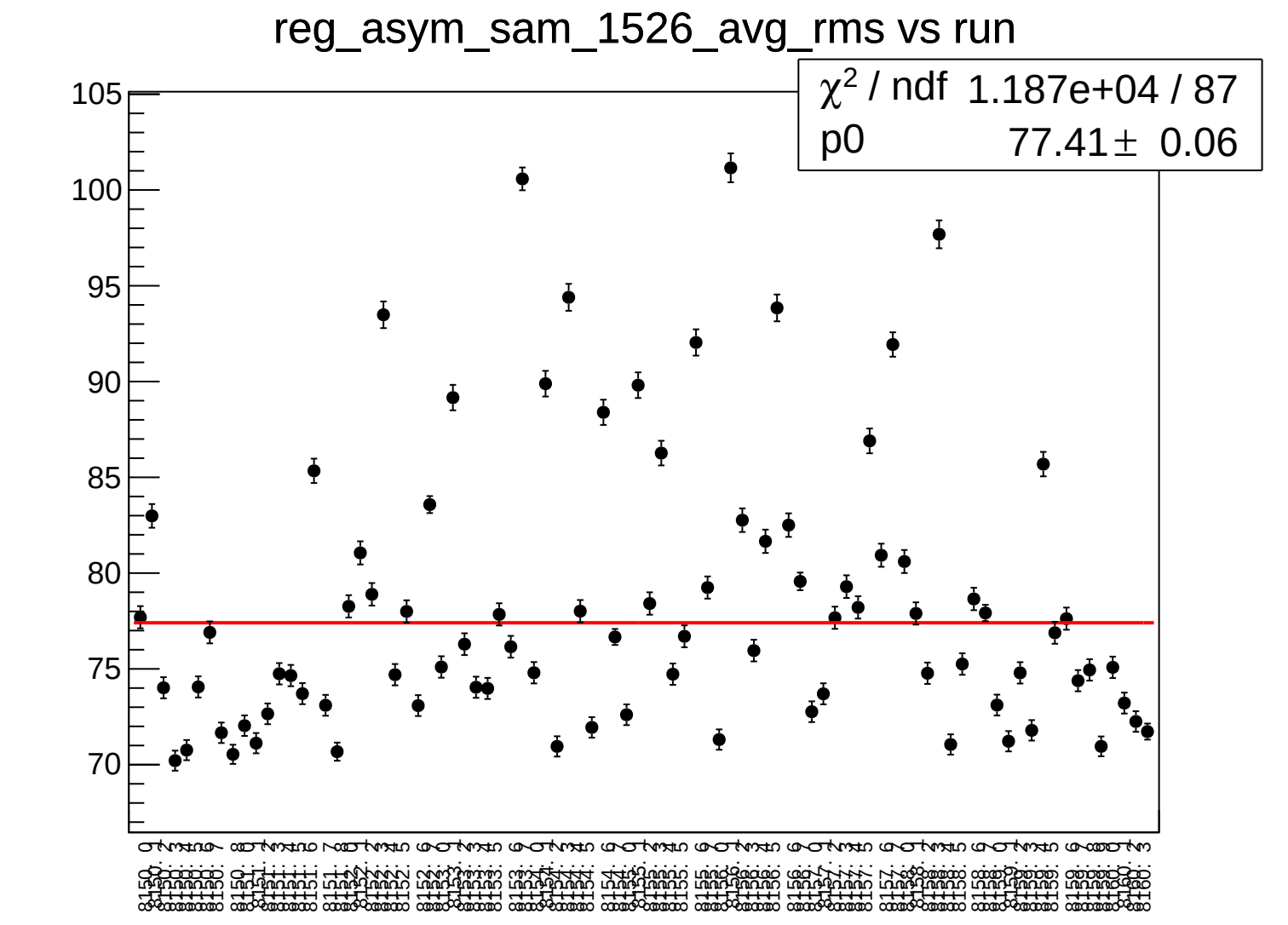

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.56 / 87
p0 −6.573e−14 ± 7.662e−14
pull
Entries 88
Mean 56.72
Std Dev 32.36

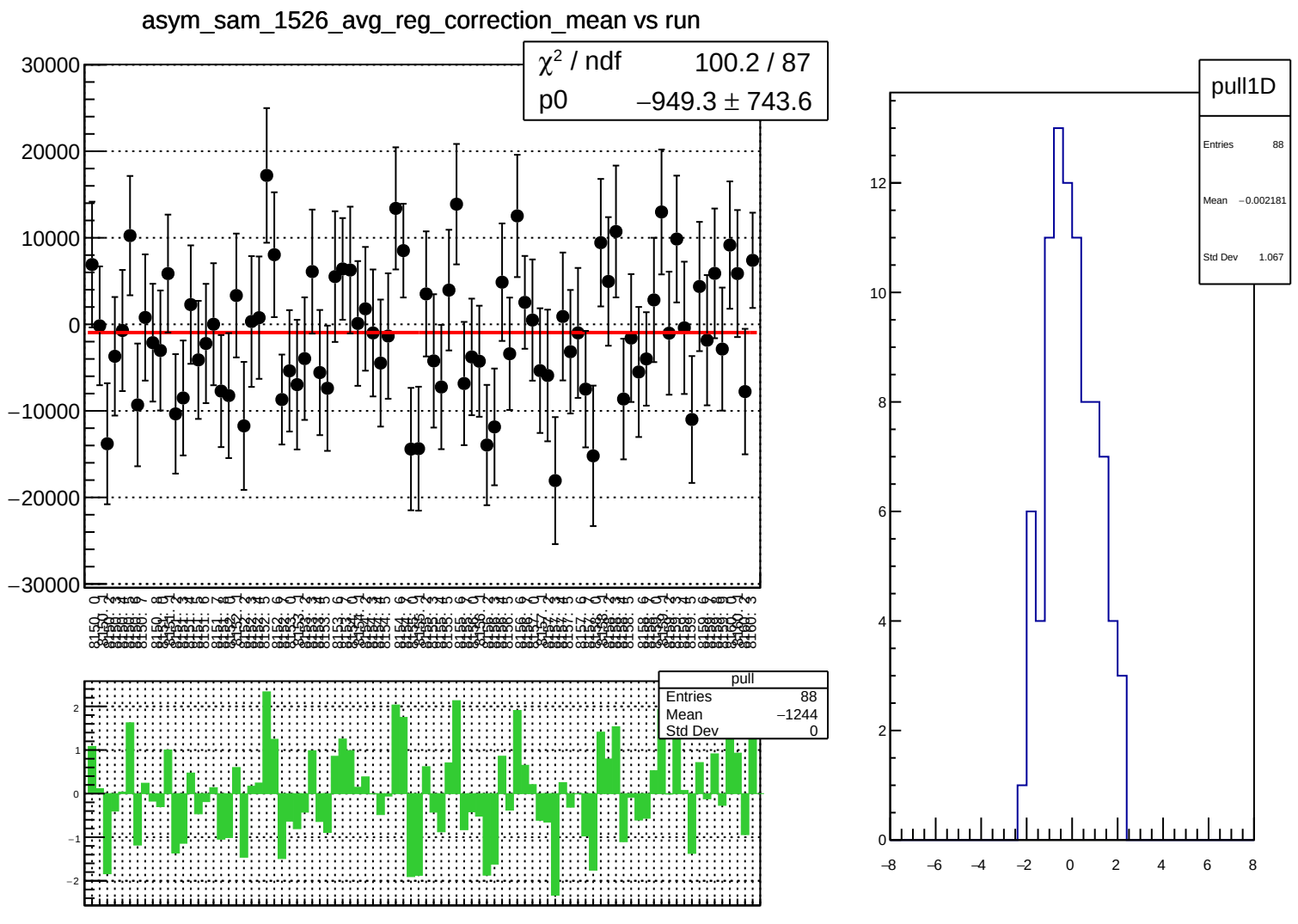

pull1D
Entries 88
Mean 0.07078
Std Dev 0.9892

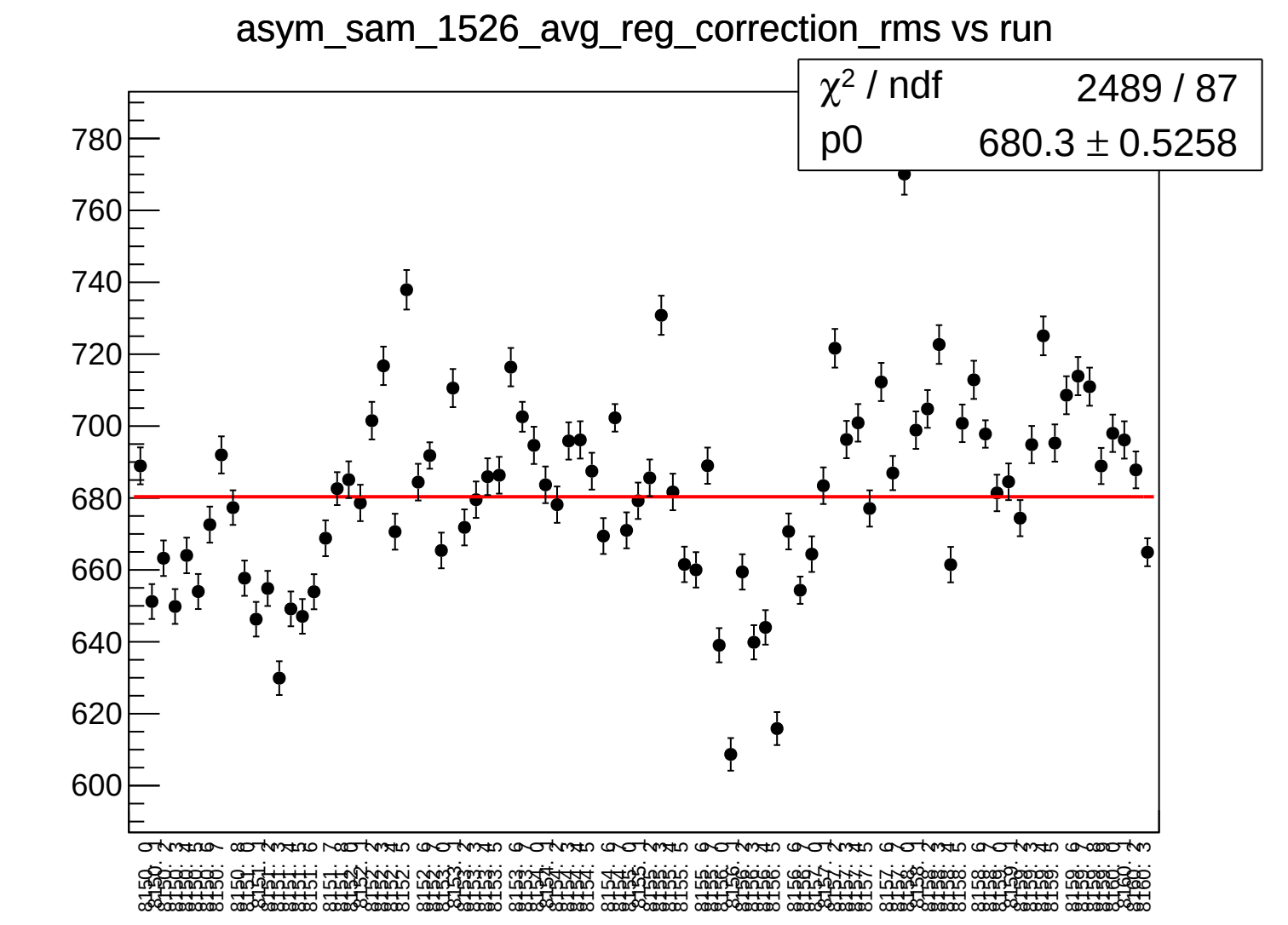

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.904e+05 / 87
p0 5.9e−11 ± 5.418e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

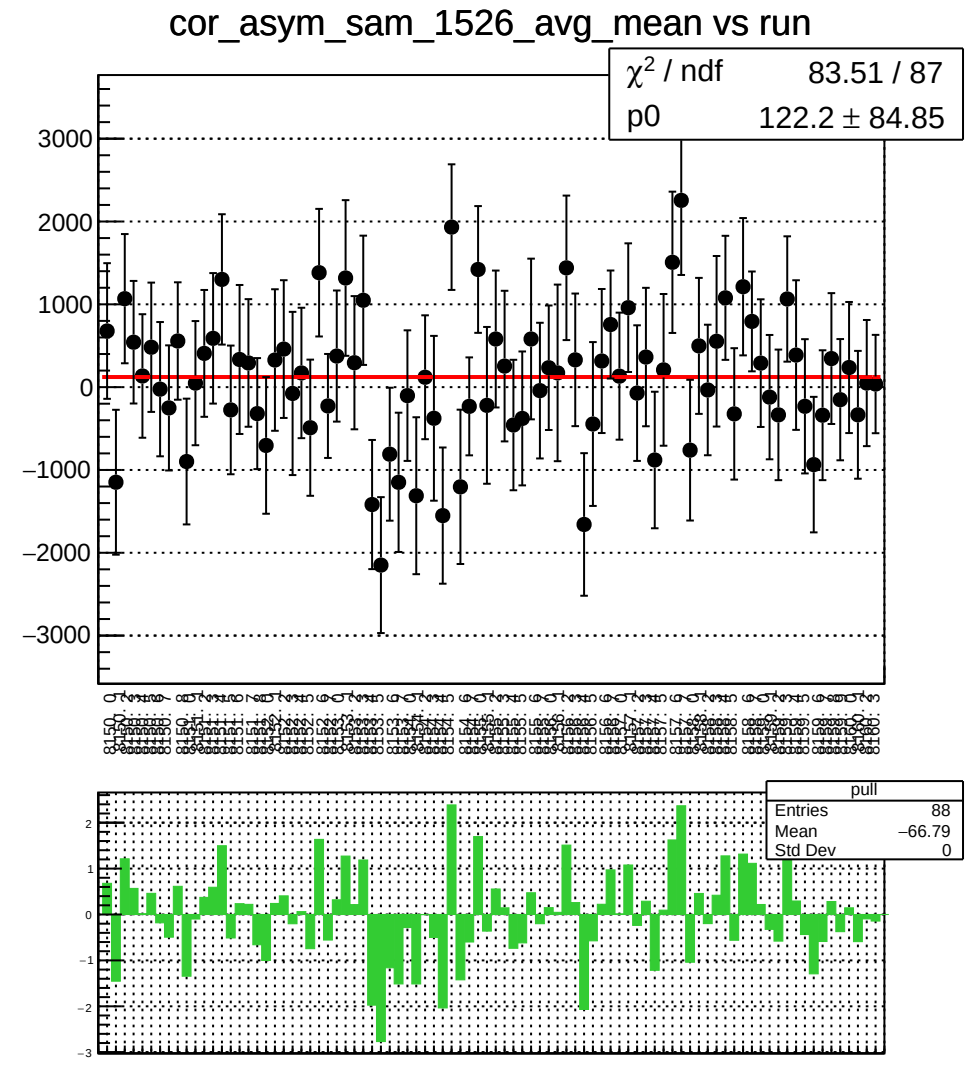

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 83.51 / 87
p0 122.2 ± 84.85
pull
Entries 88
Mean −66.79
Std Dev 0

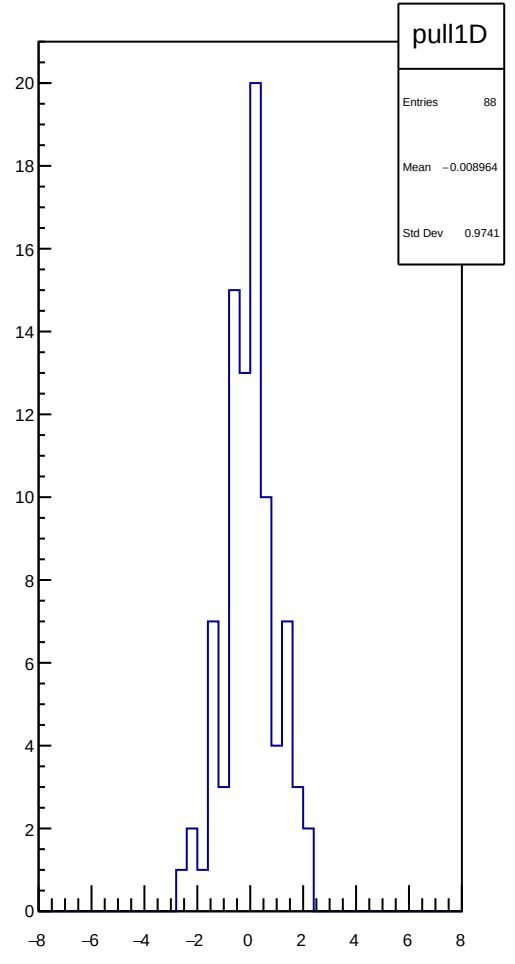

pull1D
Entries 88
Mean −0.008965
Std Dev 0.9741

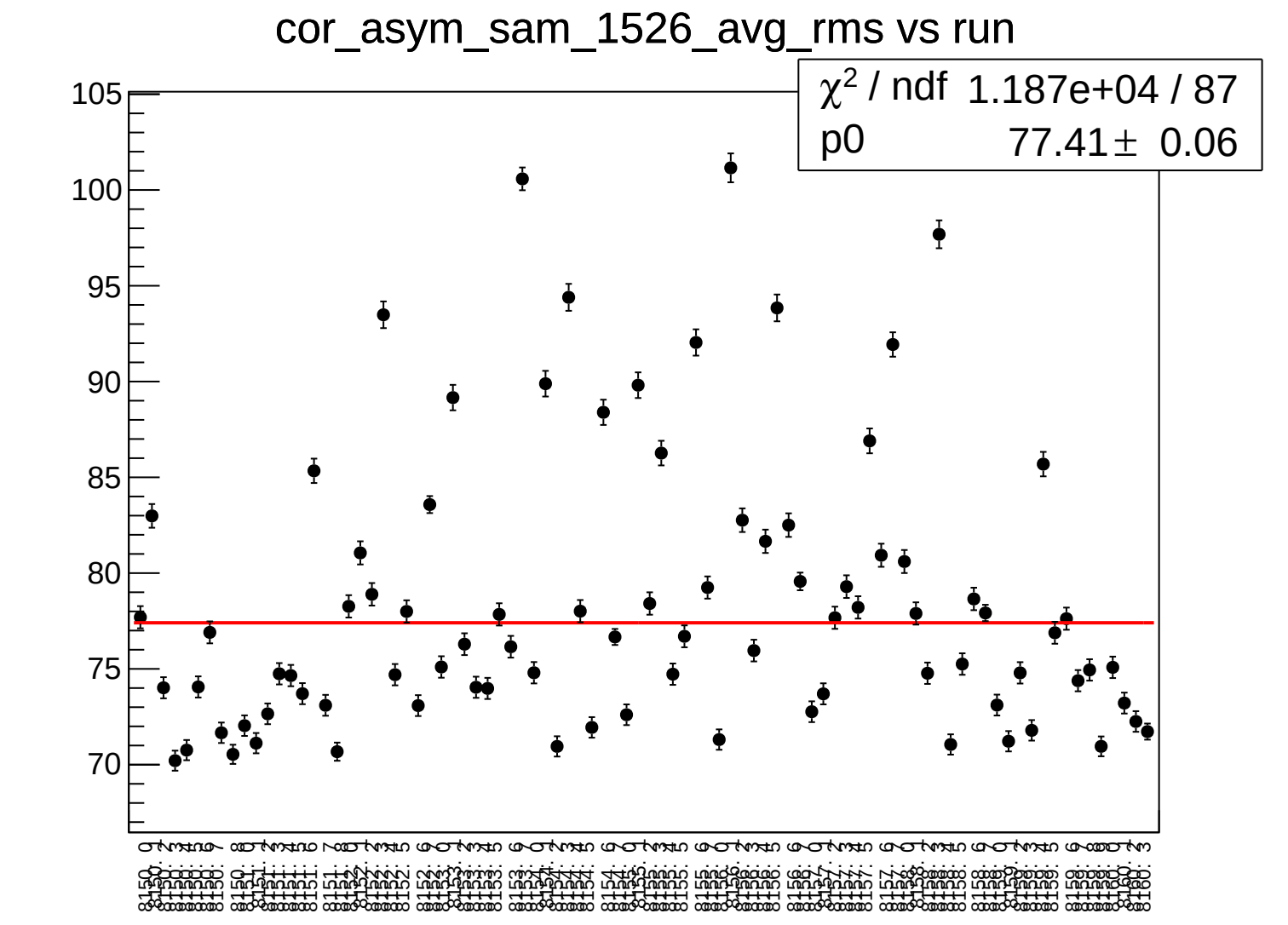

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 1.187e+04 / 87
p0 77.41 ± 0.06
105
100
95
90
85
80
75
70

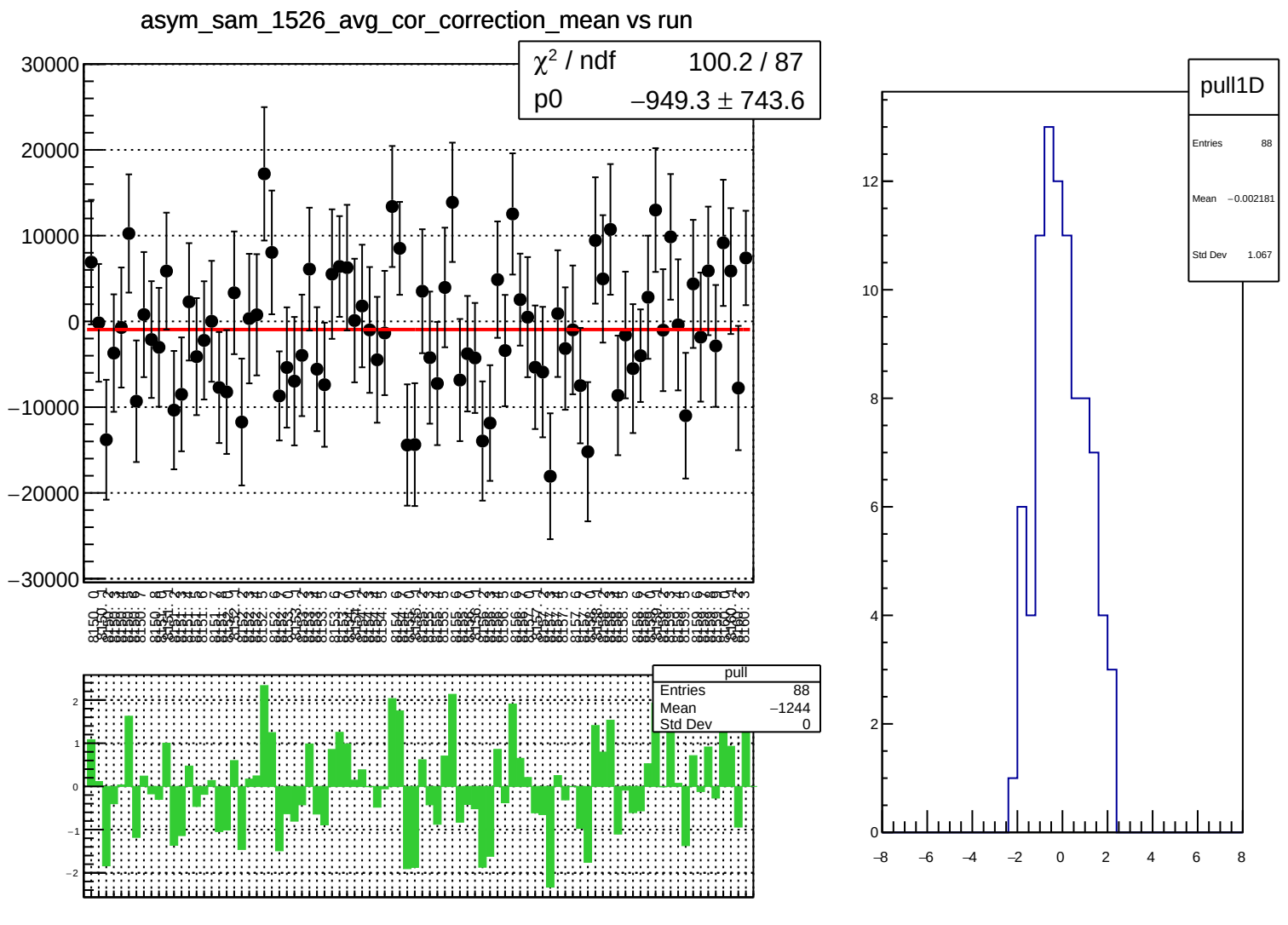

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 100.2 / 87
p0 −949.3 ± 743.6
pull
Entries 88
Mean −1244
Std Dev 0
pull1D
Entries 88
Mean −0.002181
Std Dev 1.067

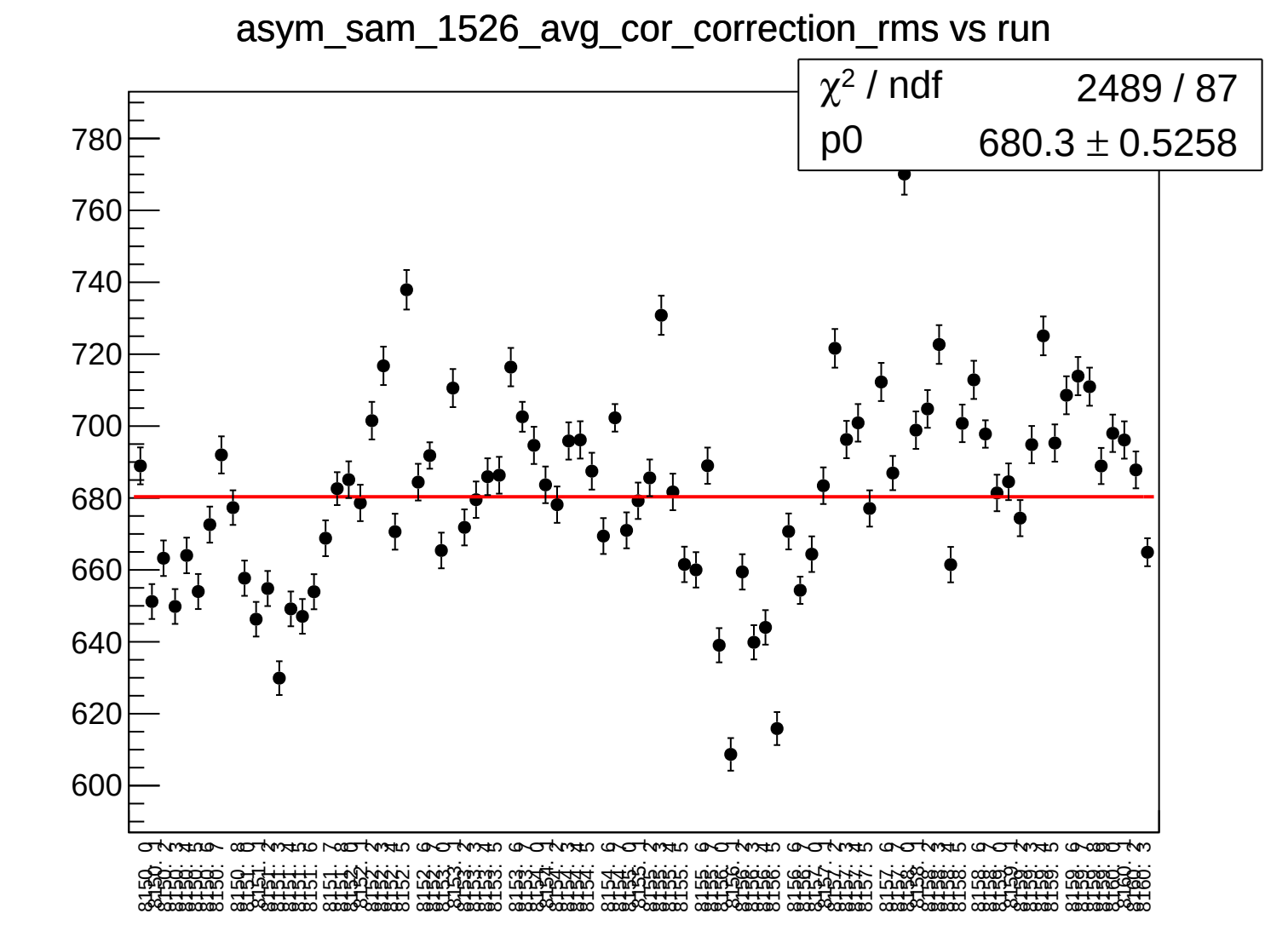

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 2489 / 87
p0 680.3 ± 0.5258
780
760
740
720
700
680
660
640
620
600

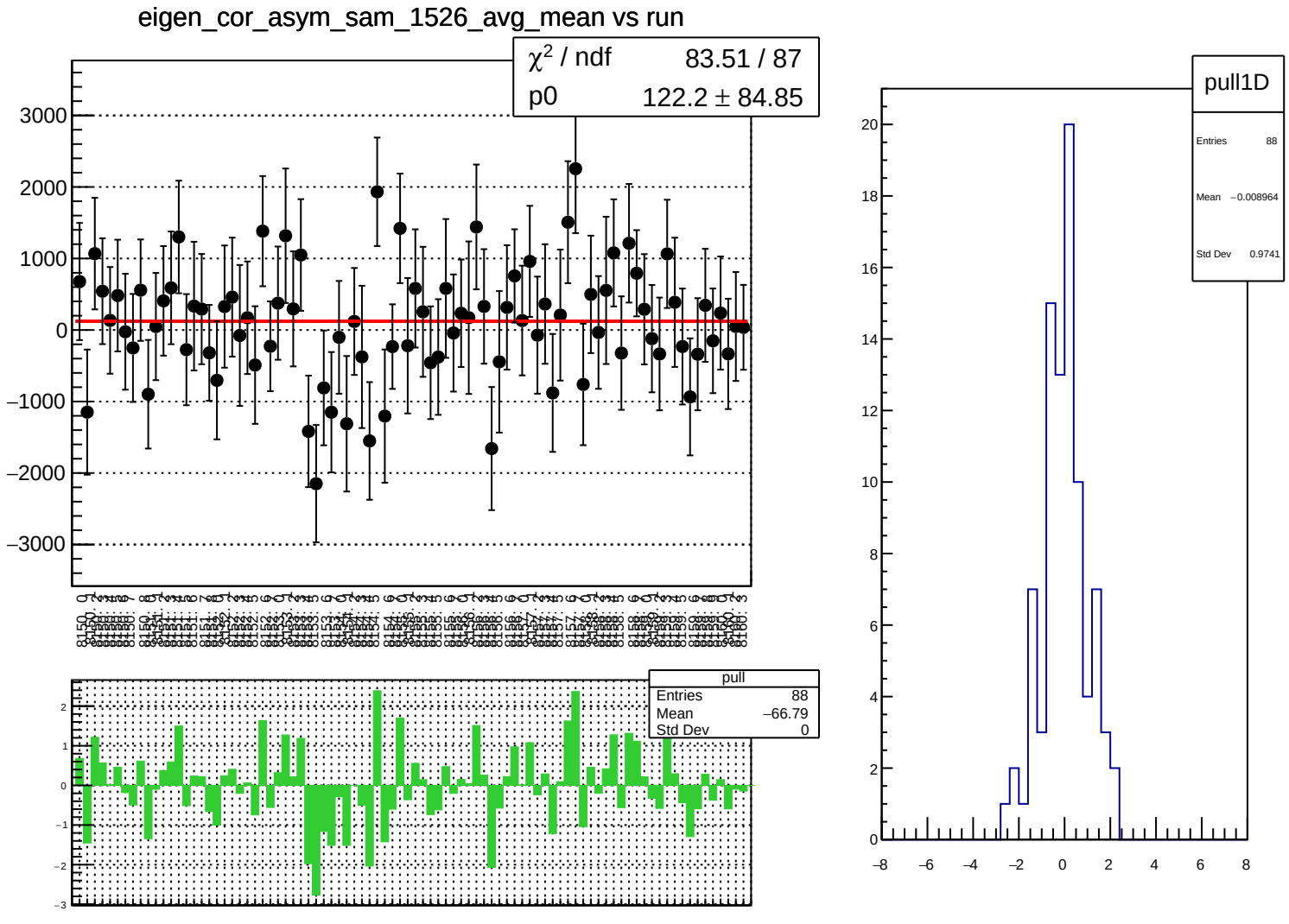

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 83.51 / 87
p0 122.2 ± 84.85
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −66.79
Std Dev 0
2
1
0
−1
−2
−3

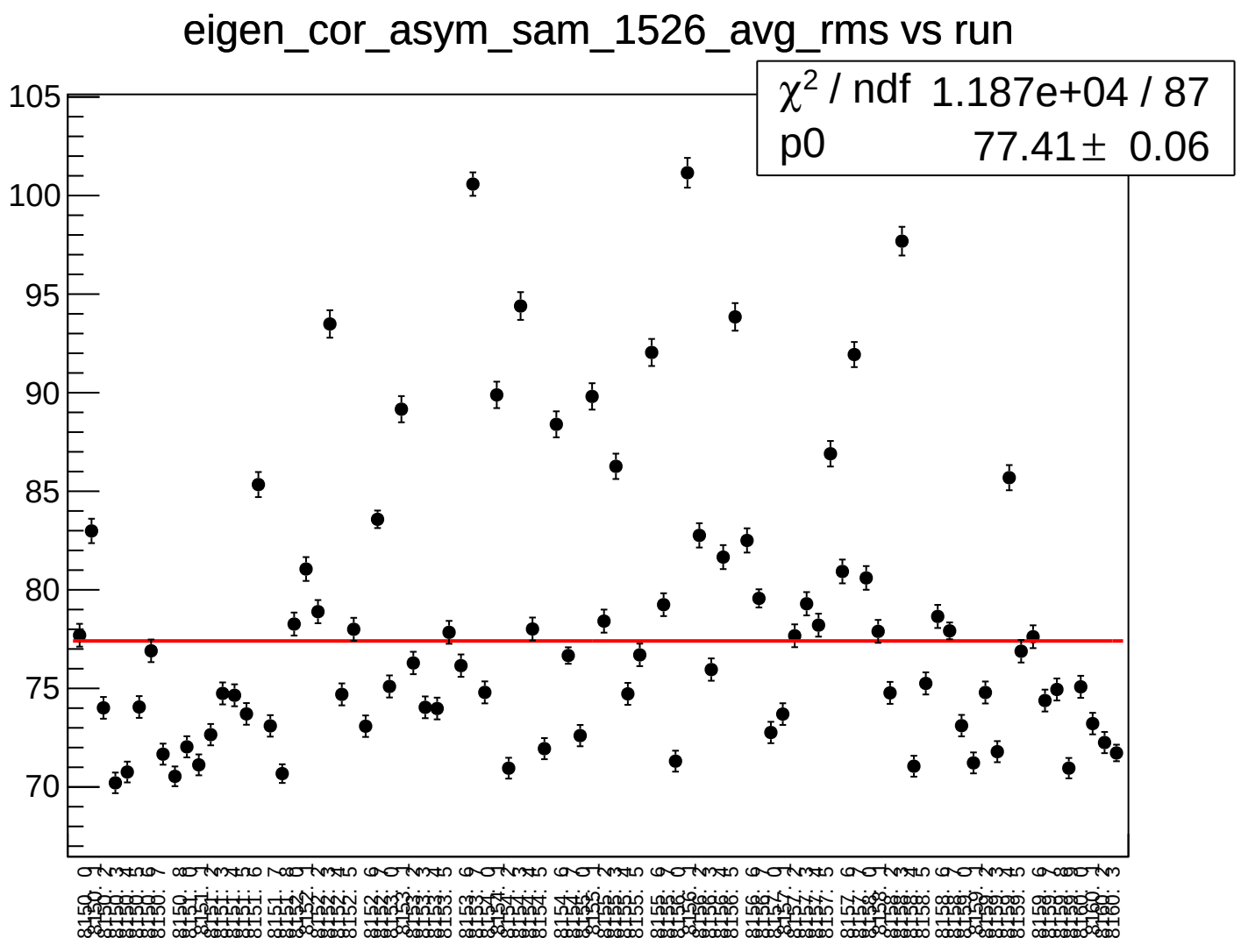

pull1D
Entries 88
Mean −0.008964
Std Dev 0.9741
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

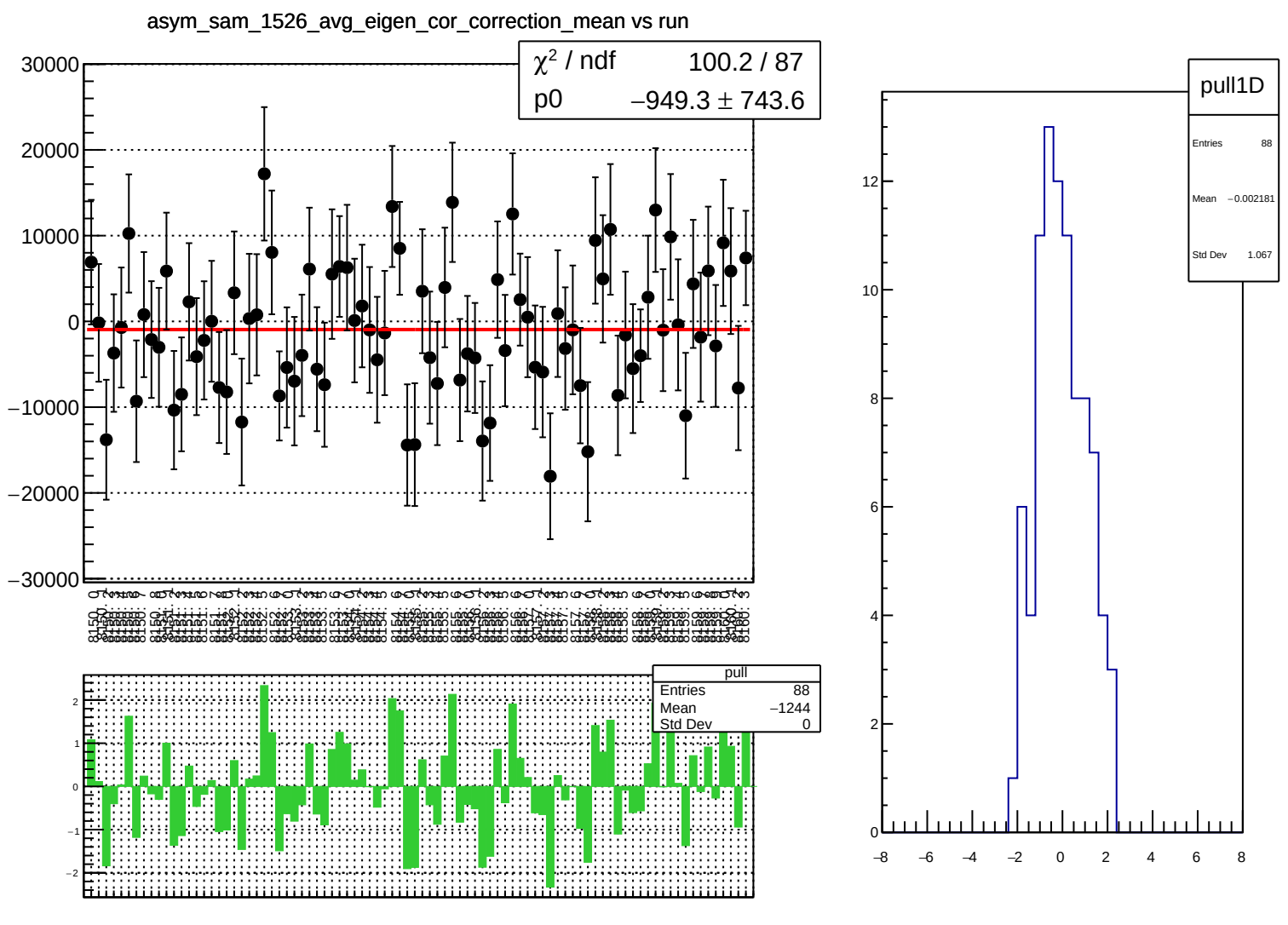

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.187e+04 / 87
p0 77.41 ± 0.06
105
100
95
90
85
80
75
70

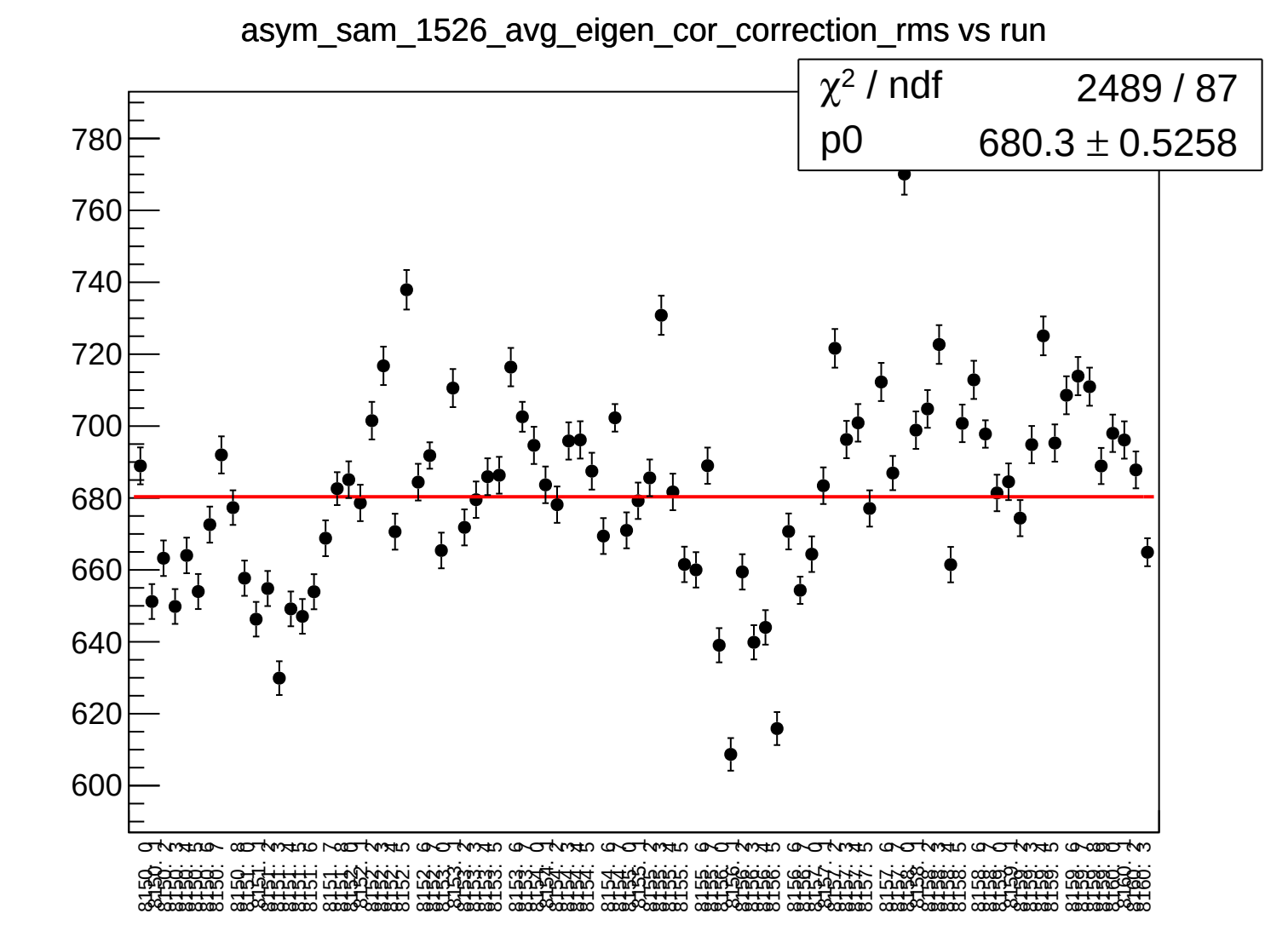

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 100.2 / 87
p0 −949.3 ± 743.6
pull
Entries 88
Mean −1244
Std Dev 0
pull1D
Entries 88
Mean −0.002181
Std Dev 1.067

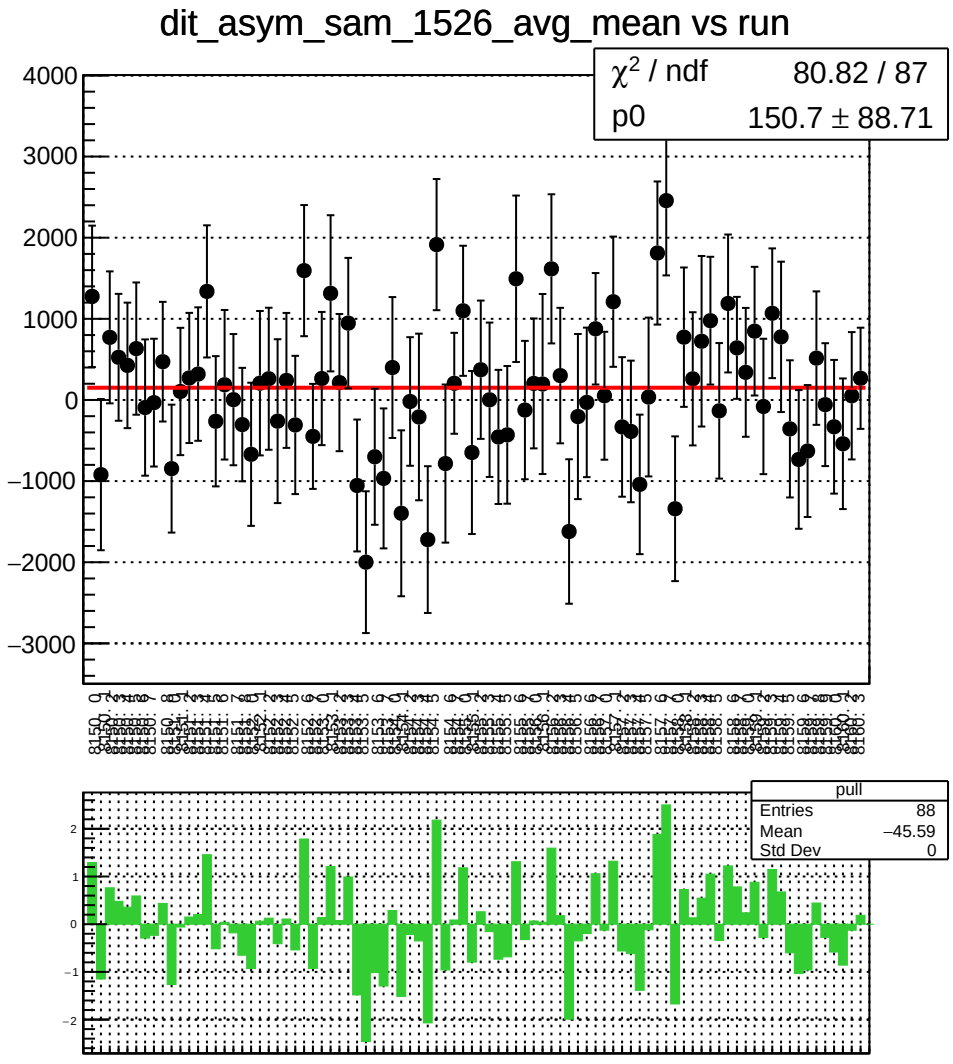

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 2489 / 87
p0 680.3 ± 0.5258
780
760
740
720
700
680
660
640
620
600

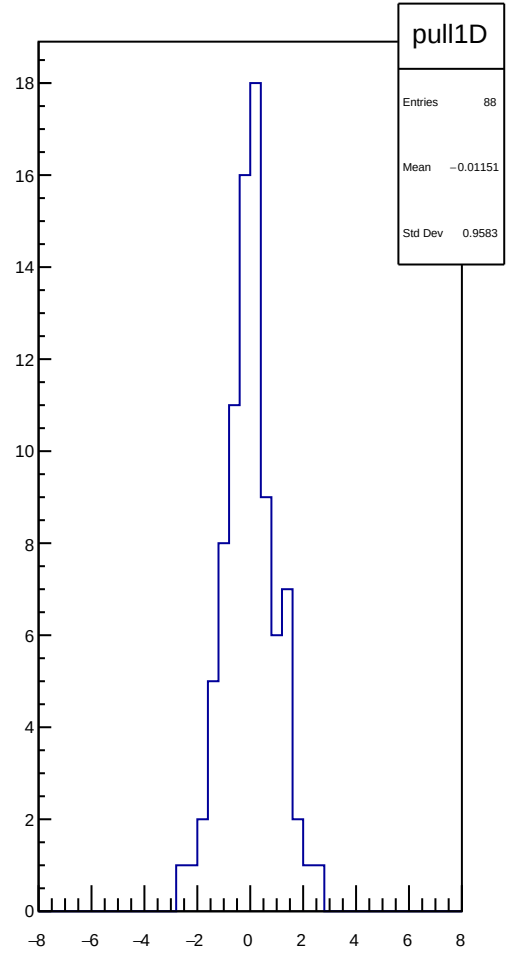

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 83.51 / 87
p0 122.2 ± 84.85
pull
Entries 88
Mean −66.79
Std Dev 0
pull1D
Entries 88
Mean −0.008964
Std Dev 0.9741

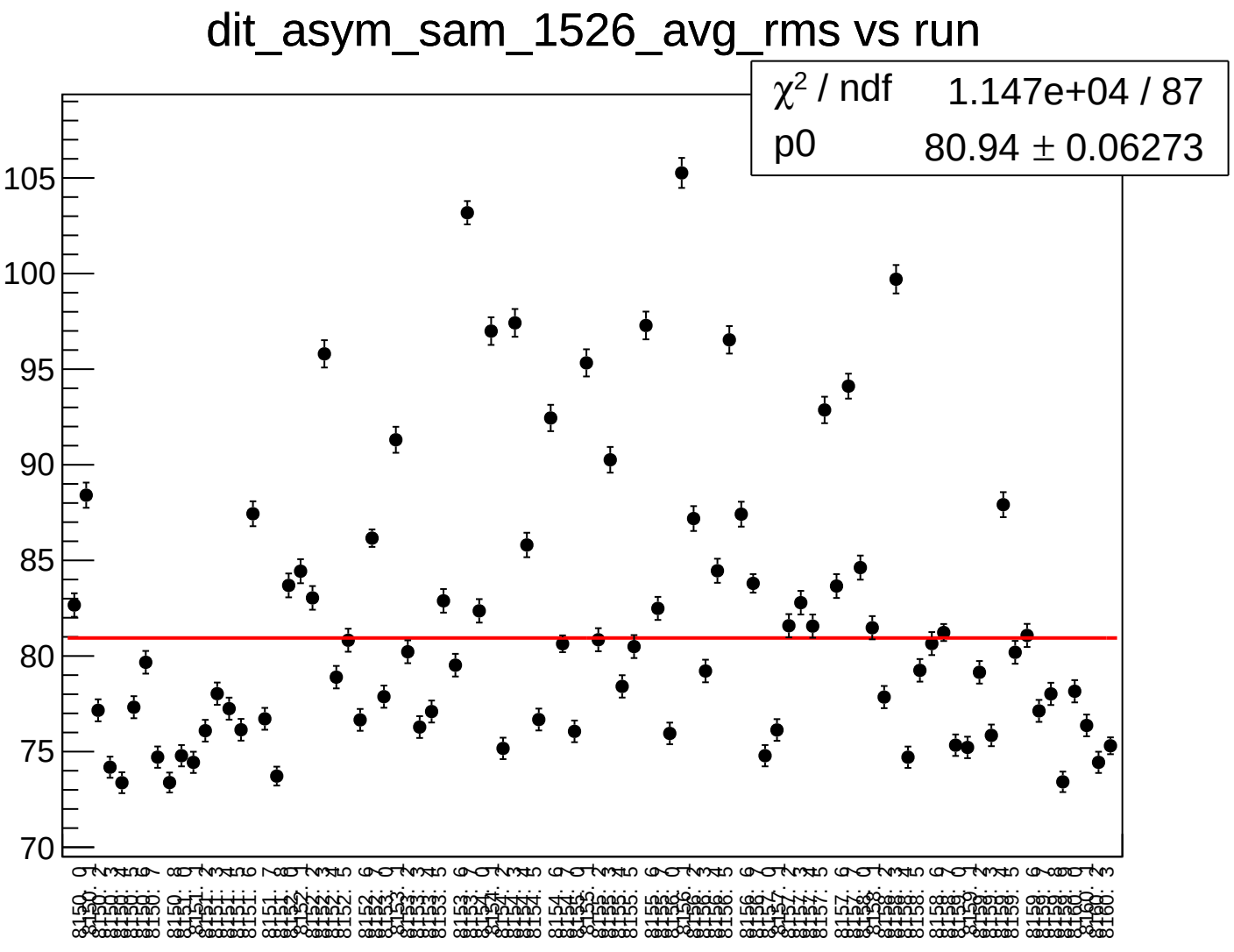

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.187e+04 / 87
p0 77.41 ± 0.06
105
100
95
90
85
80
75
70

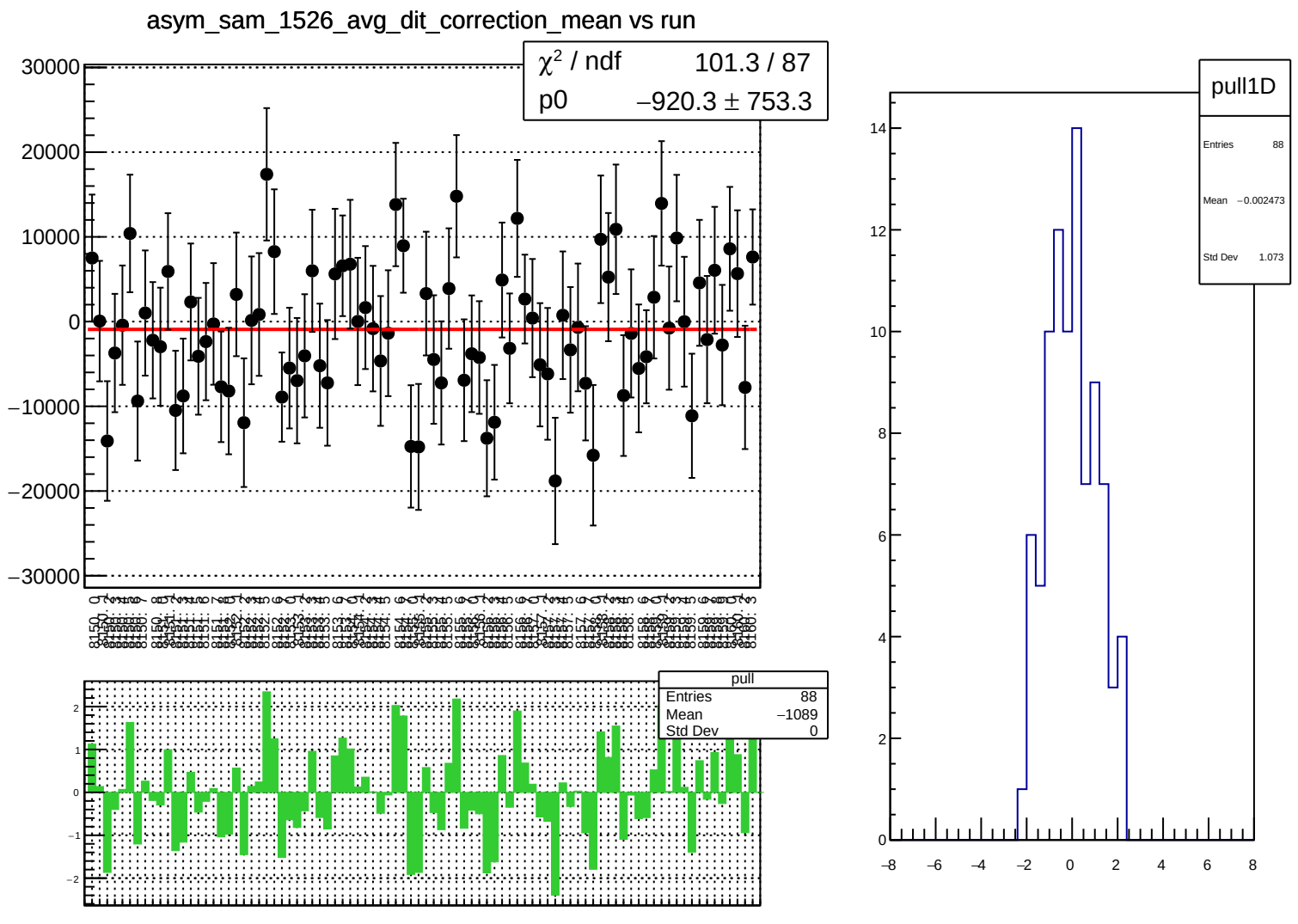

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.2 / 87
p0 −949.3 ± 743.6
pull
Entries 88
Mean −1244
Std Dev 0
pull1D
Entries 88
Mean −0.002181
Std Dev 1.067

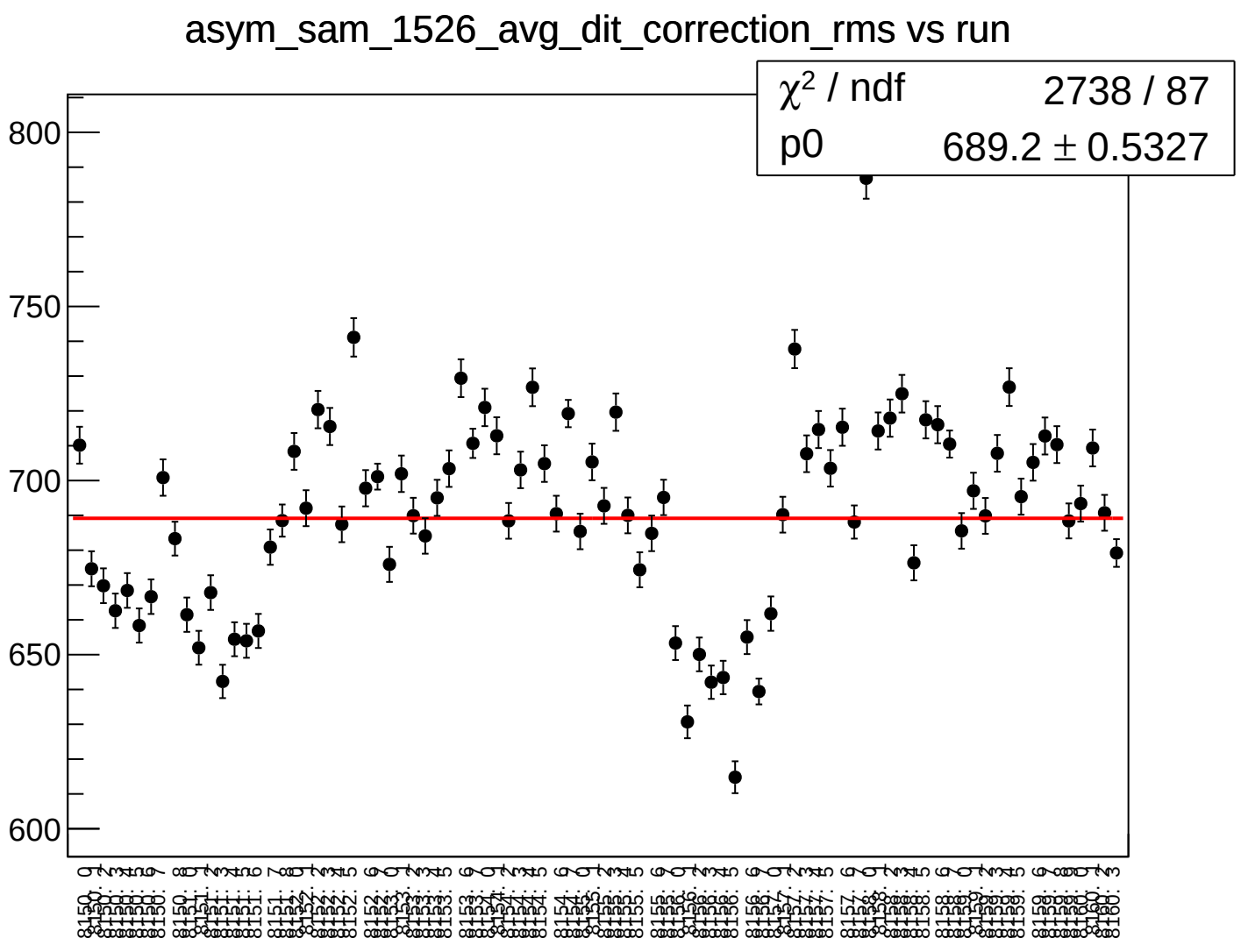

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 2489 / 87
p0 680.3 ± 0.5258
780
760
740
720
700
680
660
640
620
600

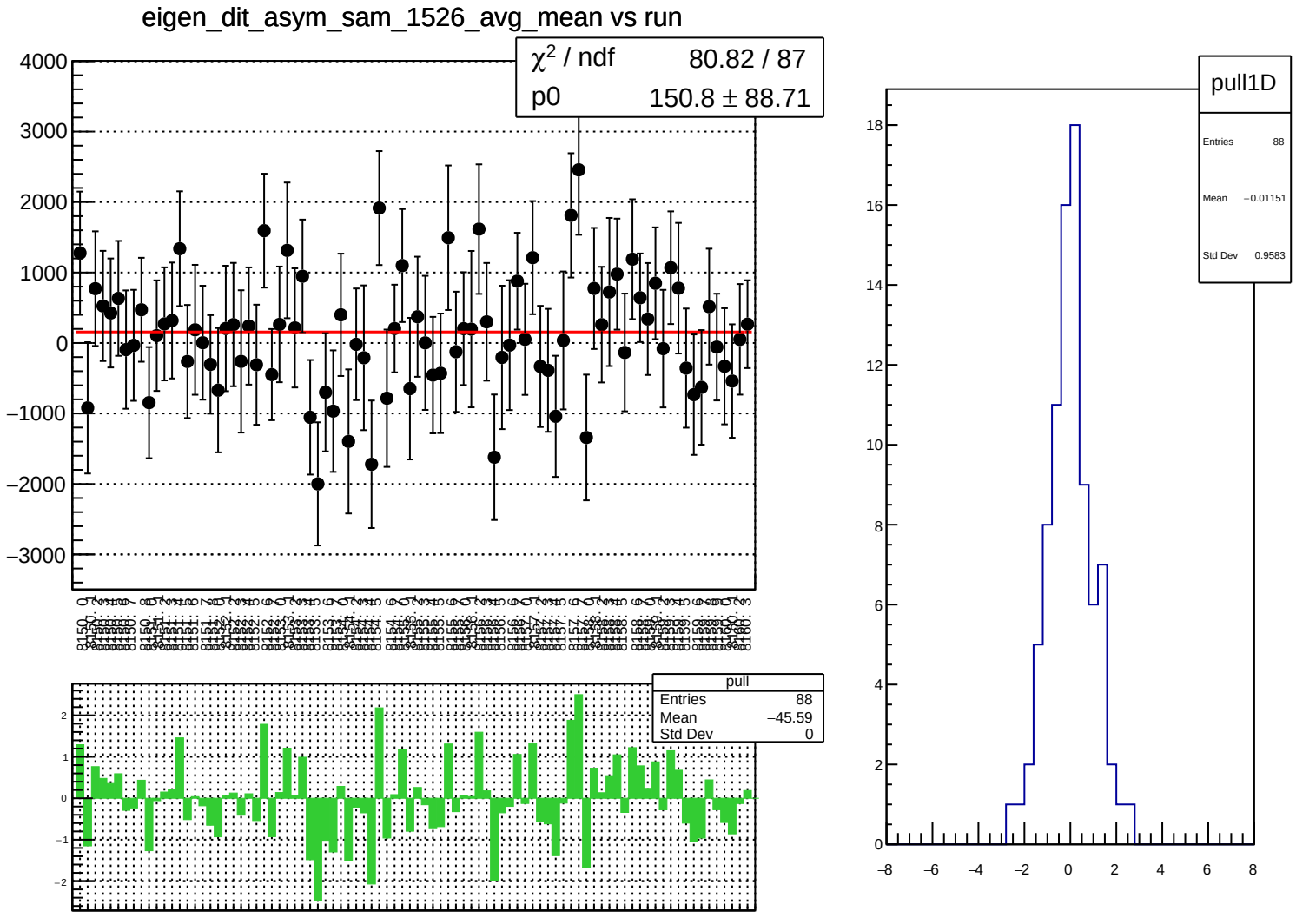

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 80.82 / 87
p0 150.7 ± 88.71
pull
Entries 88
Mean −45.59
Std Dev 0

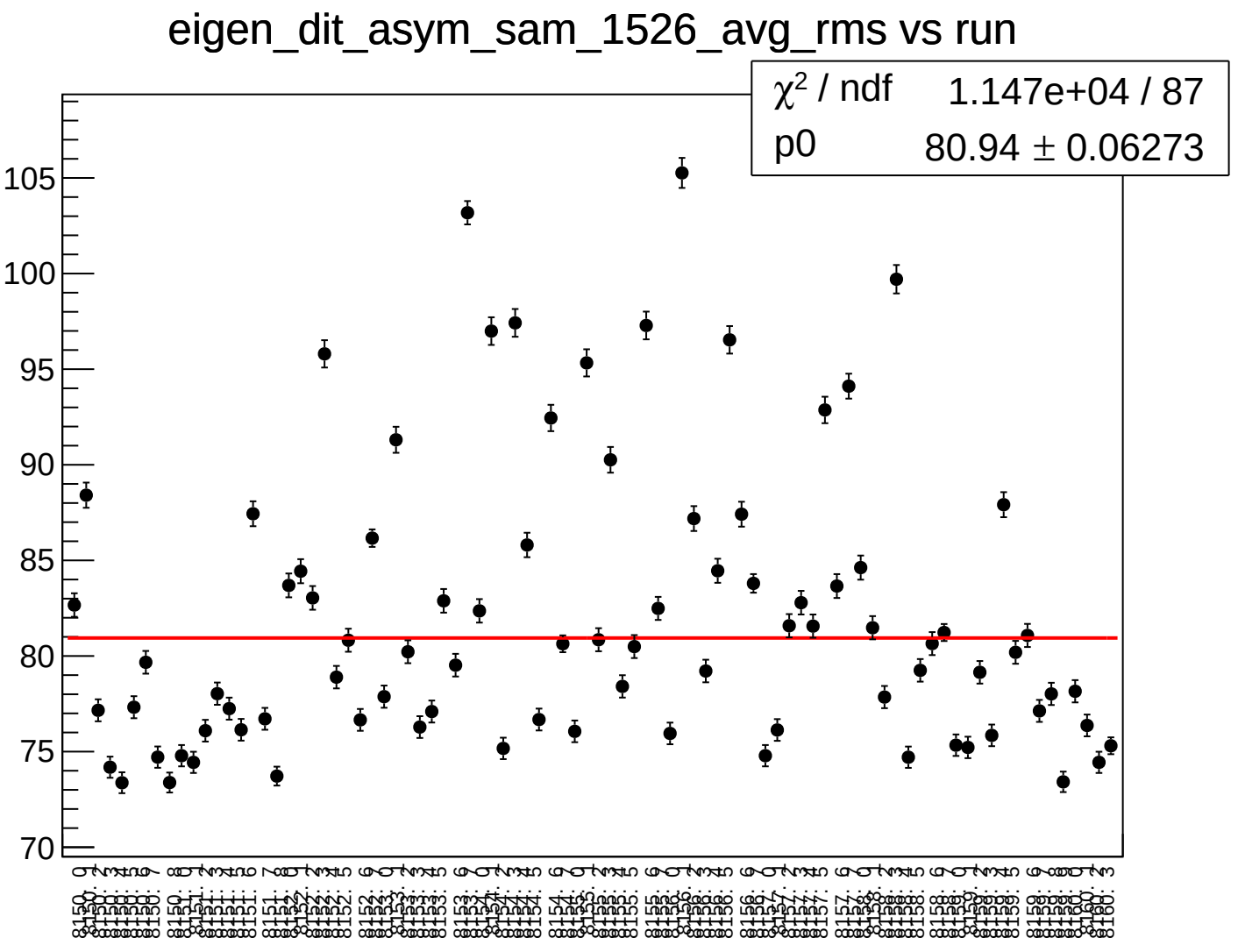

pull1D
Entries 88
Mean −0.01151
Std Dev 0.9583

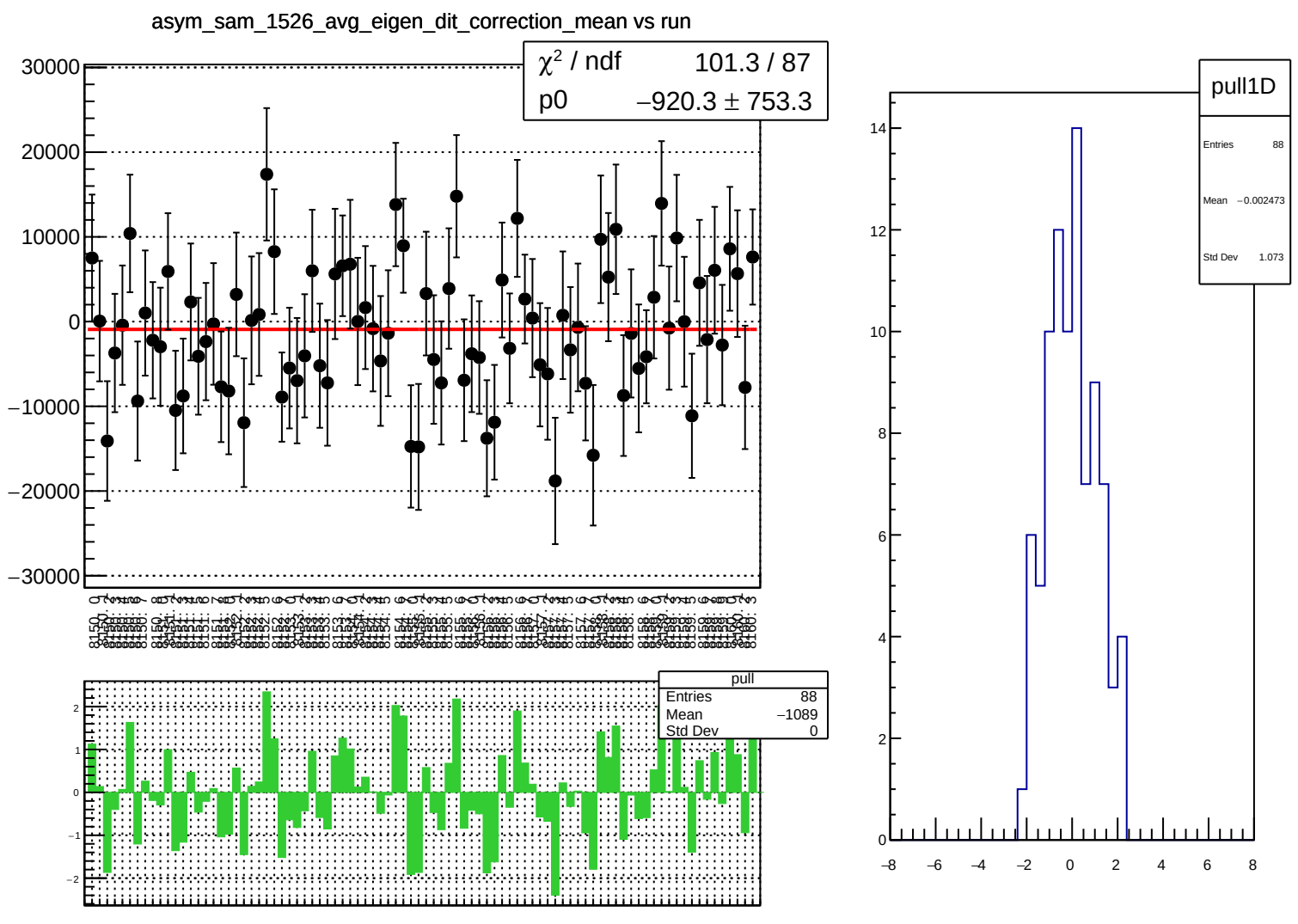

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.147e+04 / 87
p0 80.94 ± 0.06273
105
100
95
90
85
80
75
70

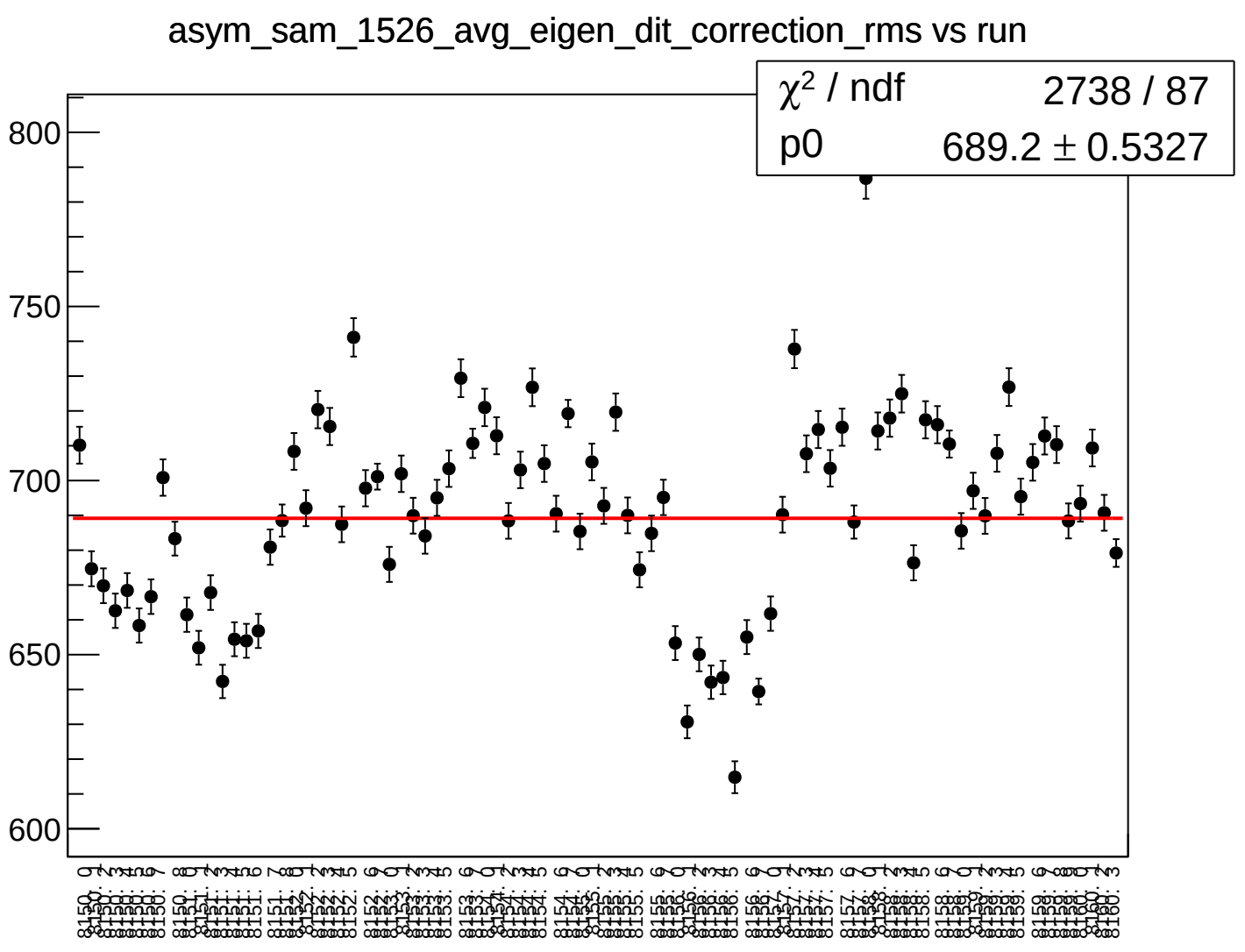

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 101.3 / 87
p0 −920.3 ± 753.3
pull
Entries 88
Mean −1089
Std Dev 0
pull1D
Entries 88
Mean −0.002473
Std Dev 1.073

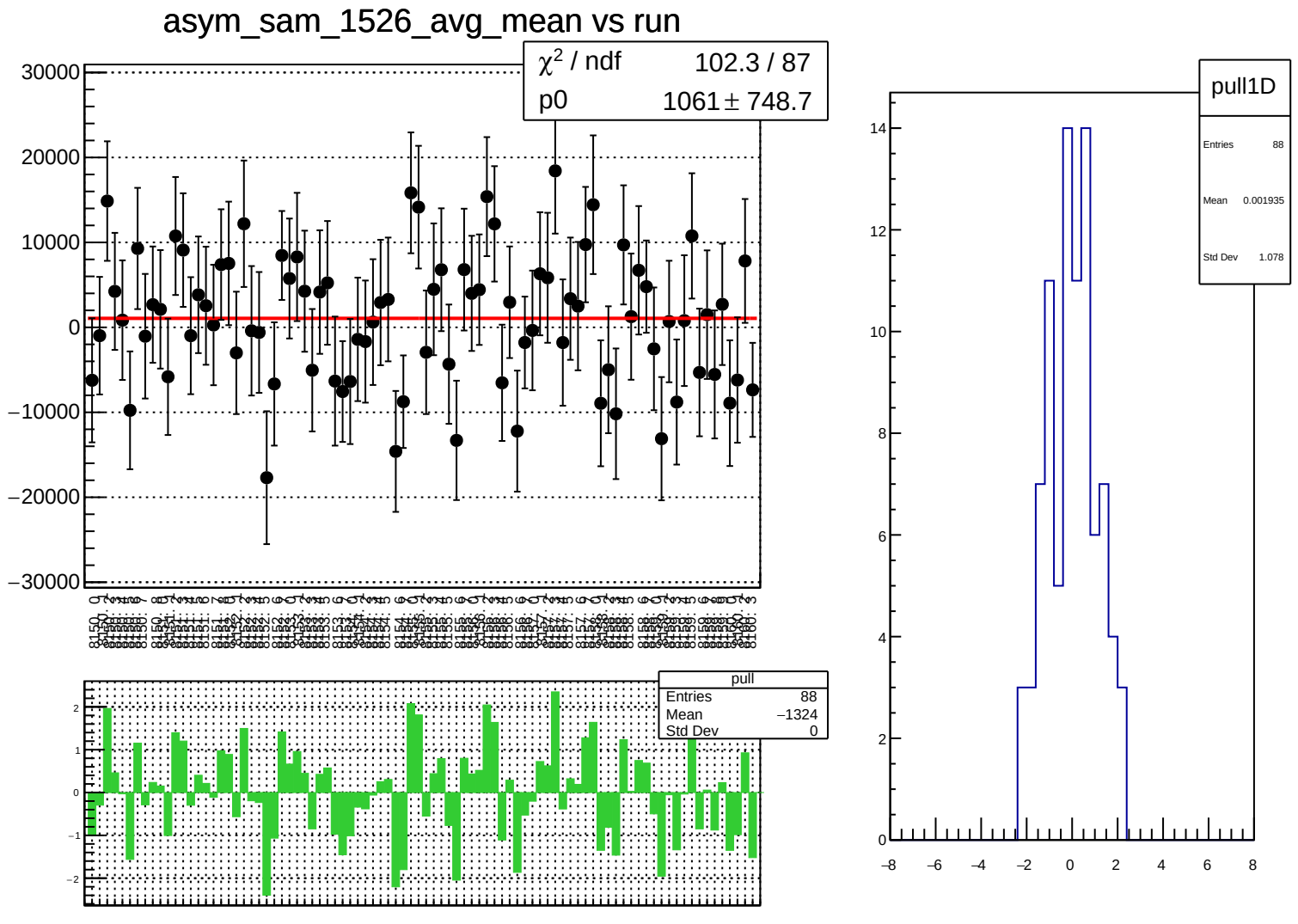

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 2738 / 87
p0 689.2 ± 0.5327
800
750
700
650
600

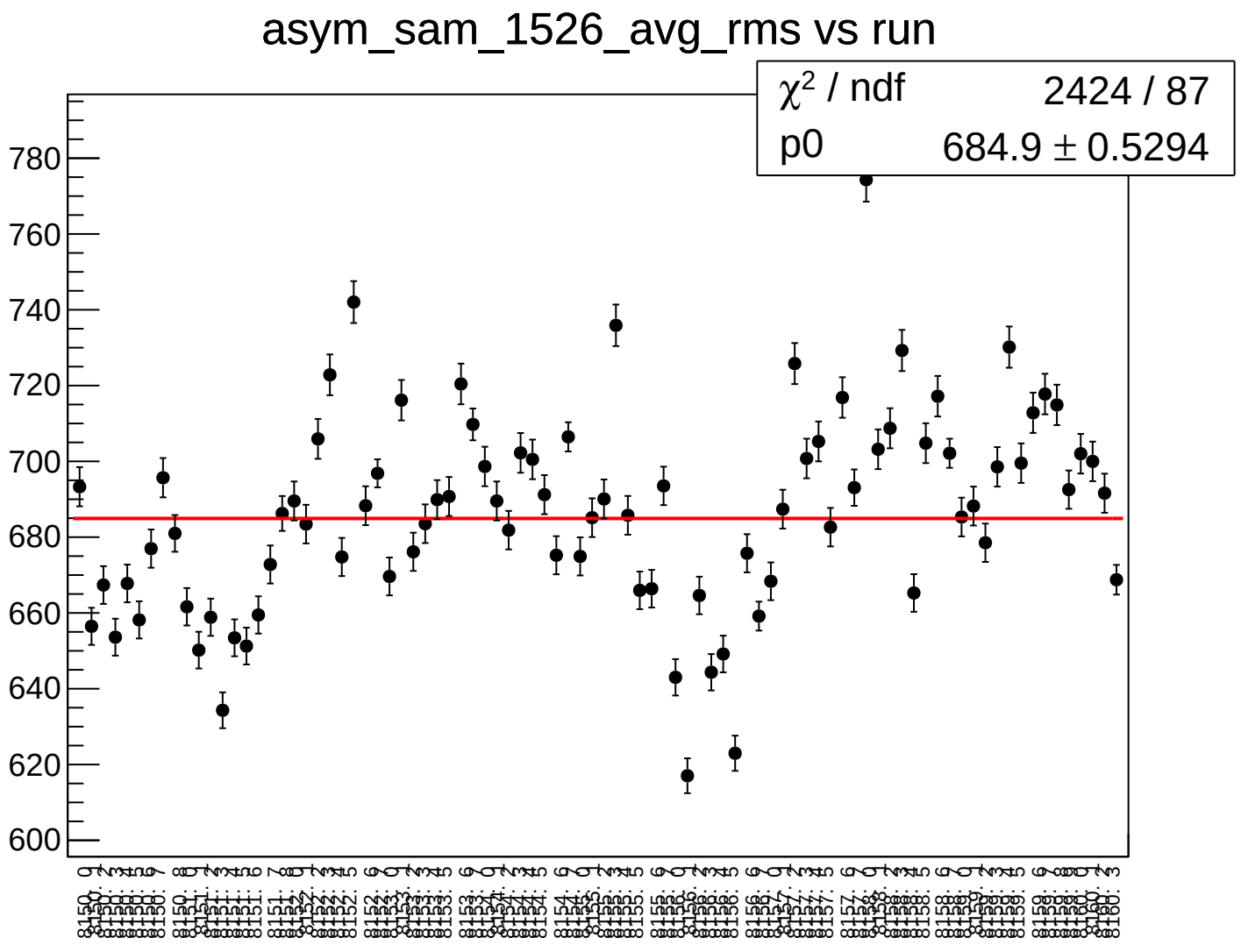

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 80.82 / 87
p0 150.8 ± 88.71
pull
Entries 88
Mean −45.59
Std Dev 0
pull1D
Entries 88
Mean −0.01151
Std Dev 0.9583

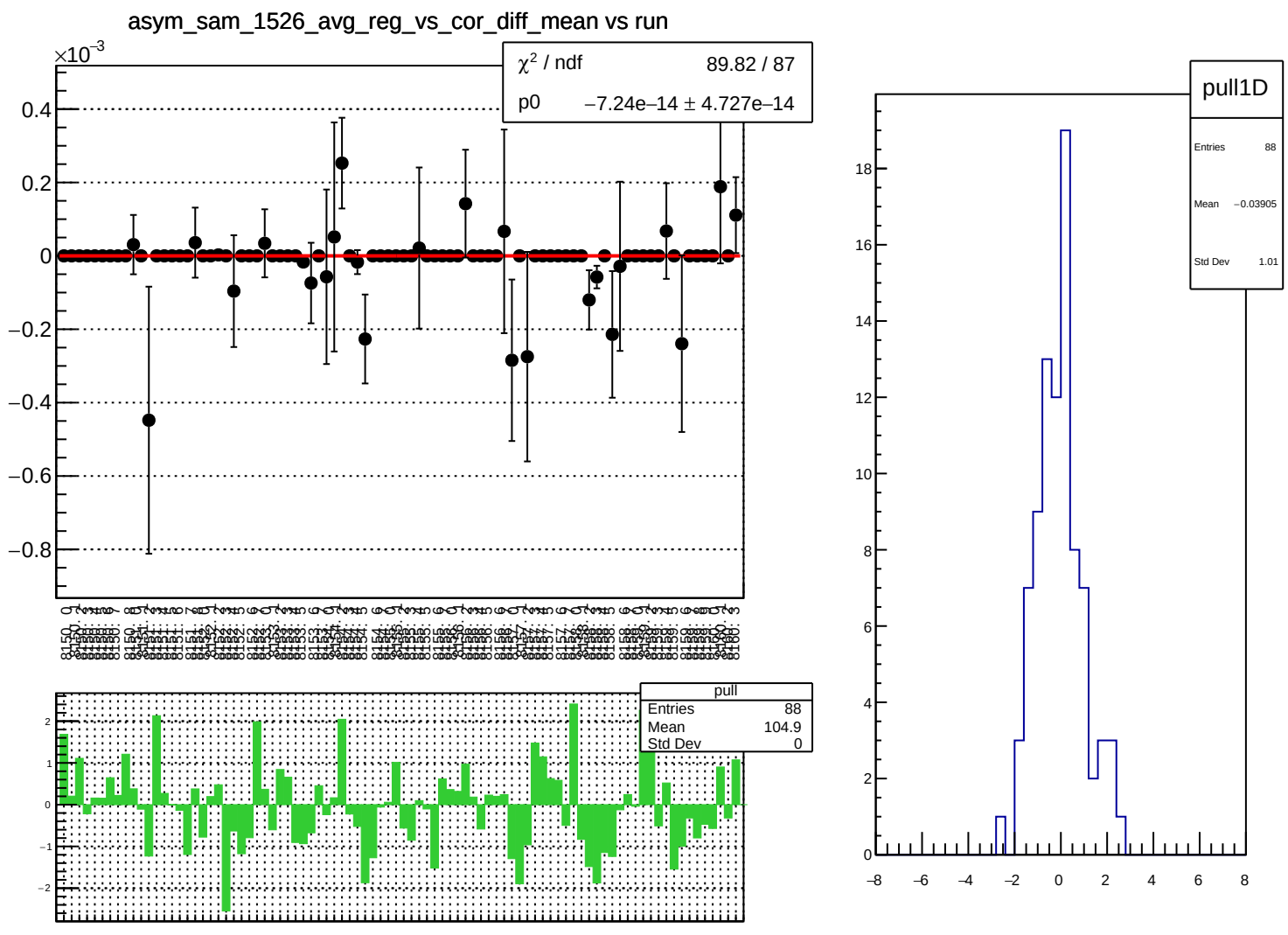

eigen_dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.147e+04 / 87
p0 80.94 ± 0.06273
105
100
95
90
85
80
75
70

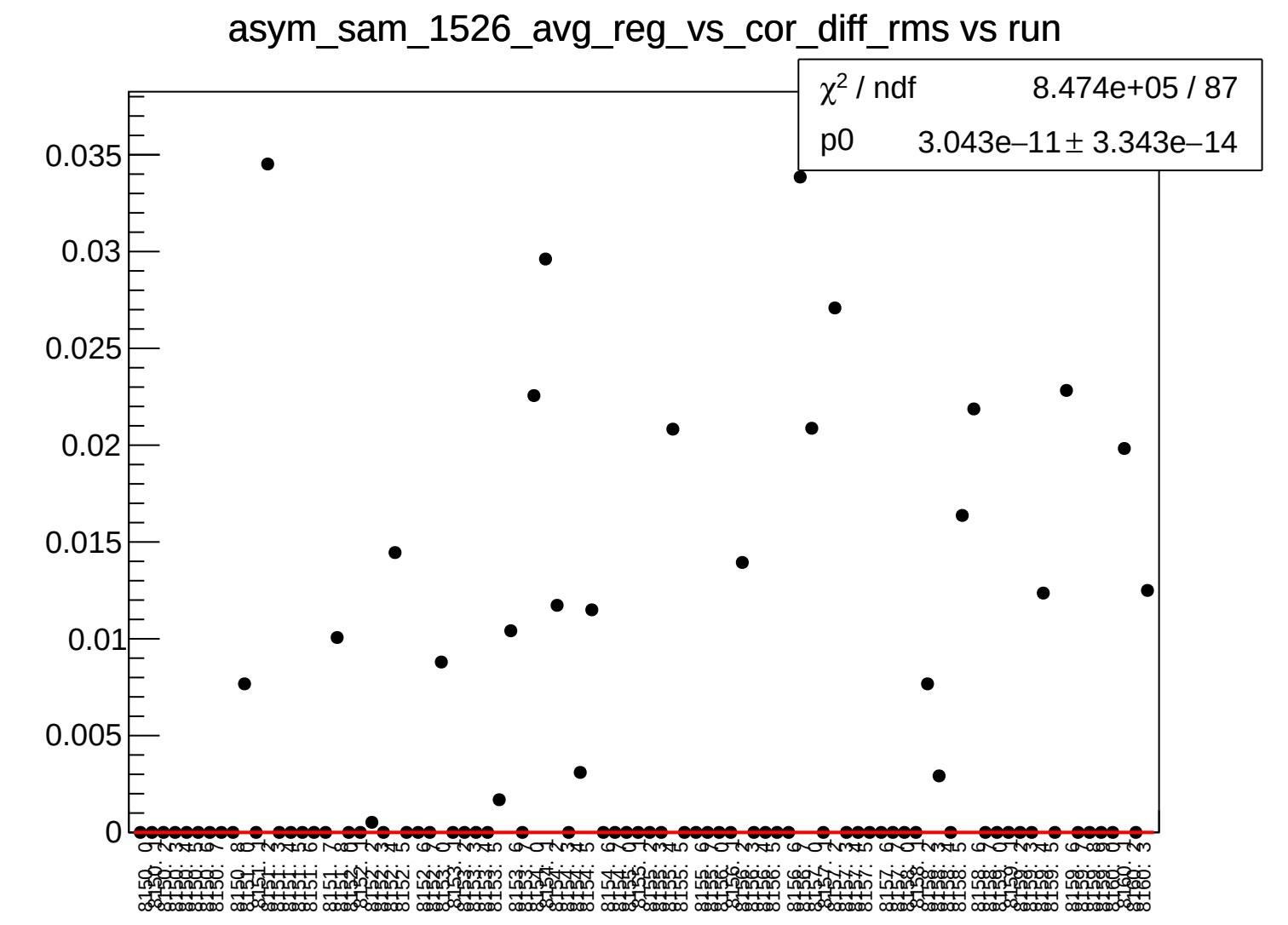

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 101.3 / 87
p0 −920.3 ± 753.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1089
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002473
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

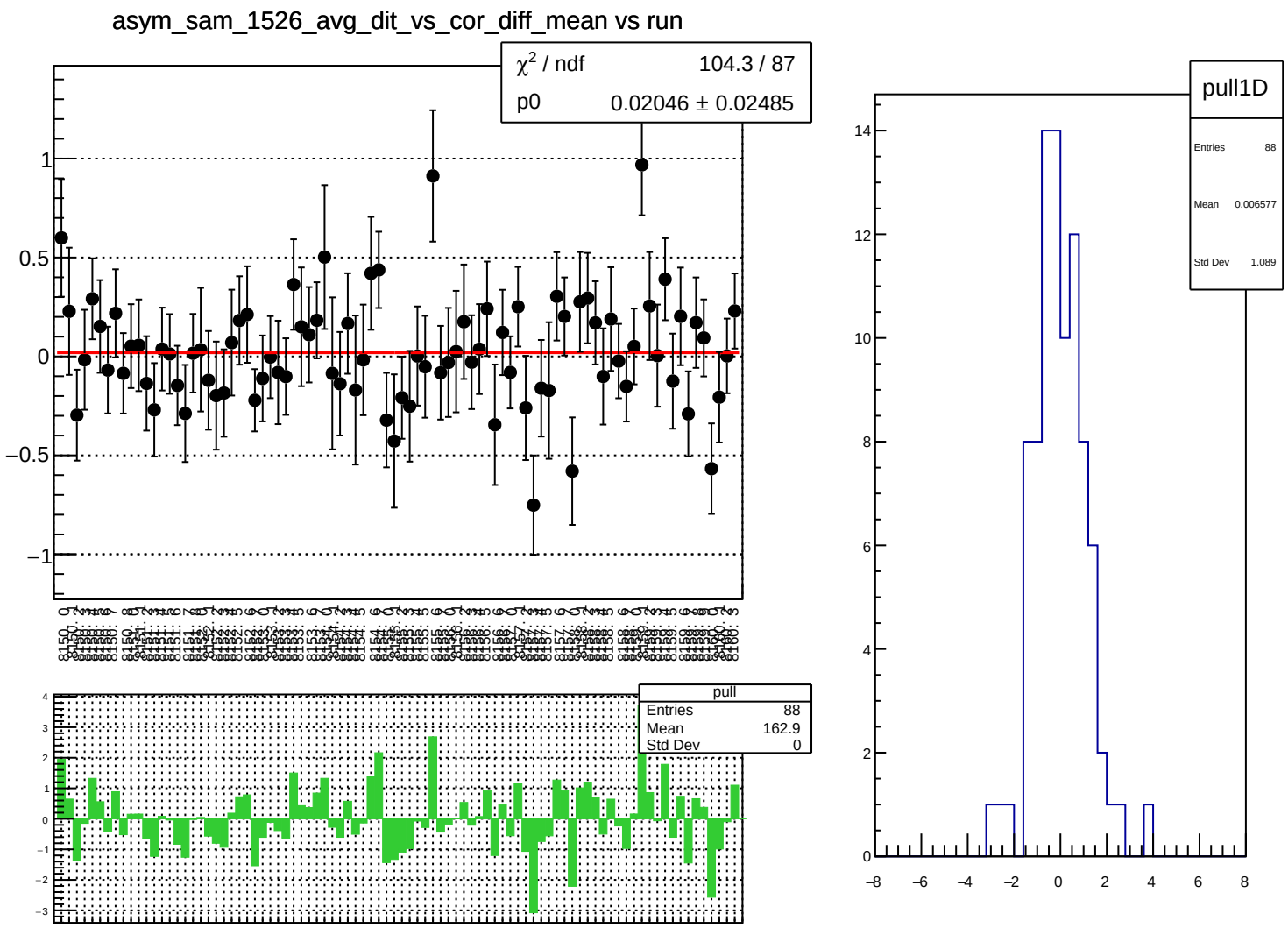

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 2738 / 87
p0 689.2 ± 0.5327
800
750
700
650
600

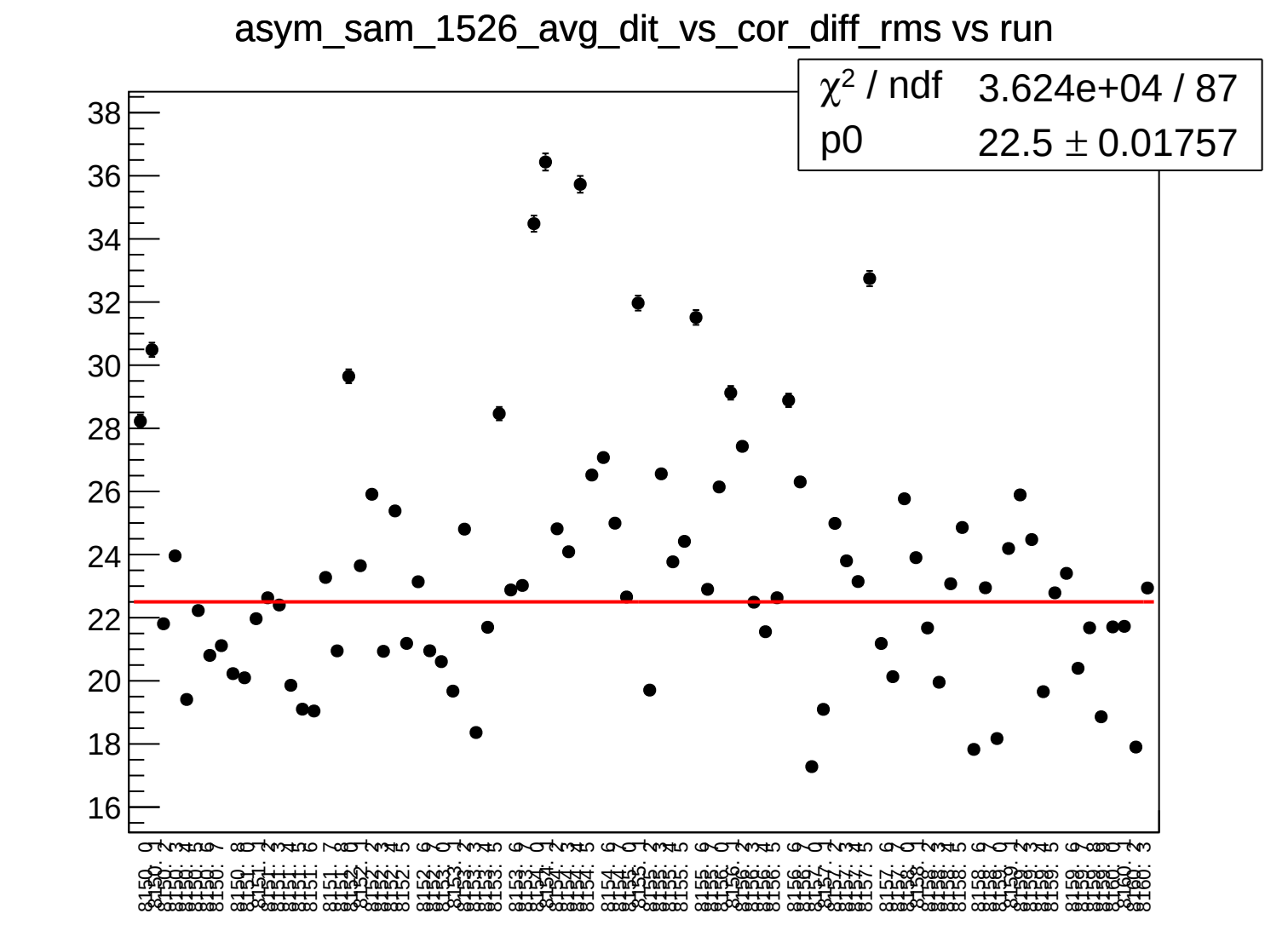

asym_sam_1526_avg_mean vs run
χ² / ndf 102.3 / 87
p0 1061 ± 748.7
pull
Entries 88
Mean −1324
Std Dev 0
pull1D
Entries 88
Mean 0.001935
Std Dev 1.078

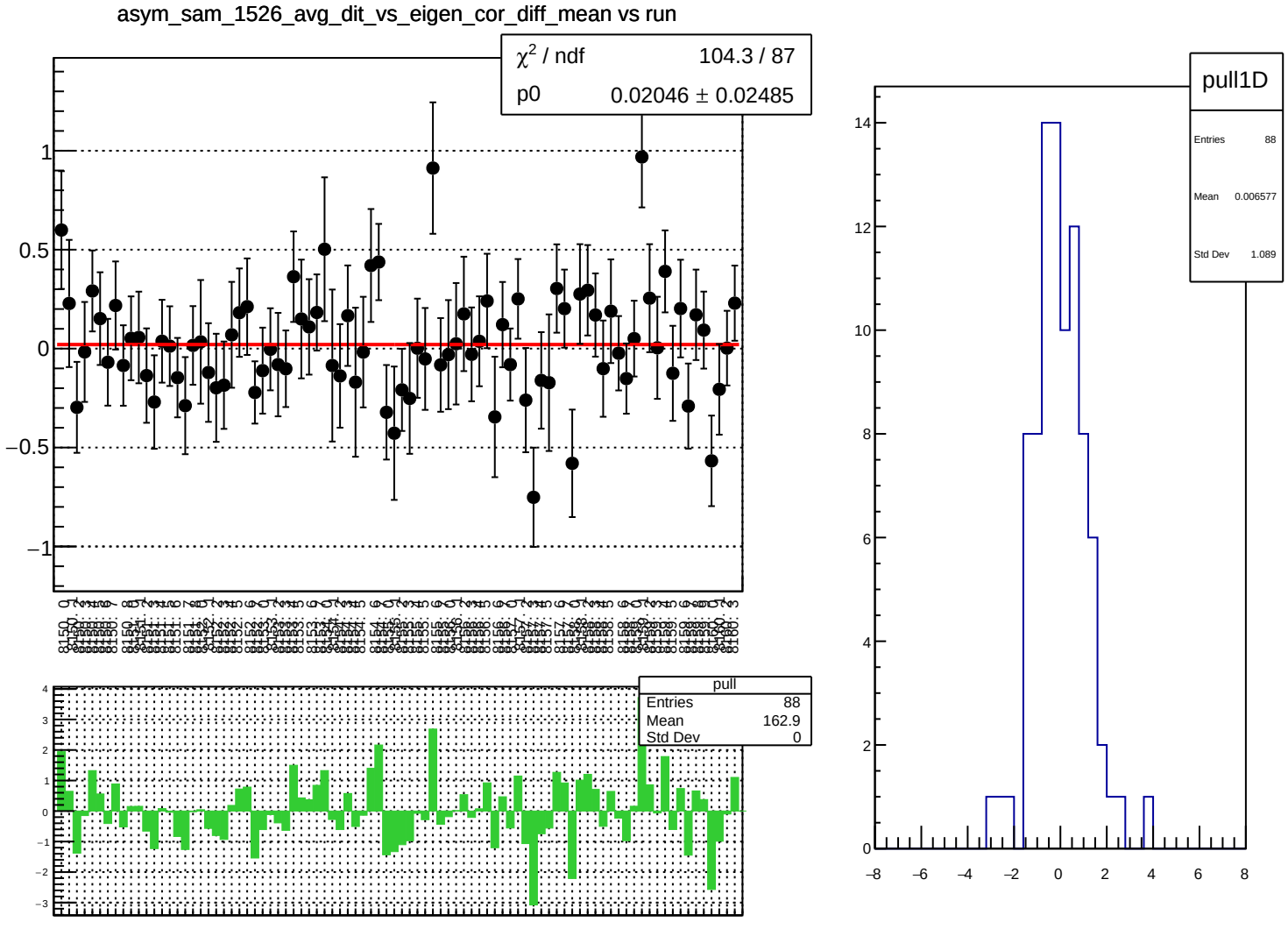

asym_sam_1526_avg_rms vs run
χ² / ndf 2424 / 87
p0 684.9 ± 0.5294
780
760
740
720
700
680
660
640
620
600

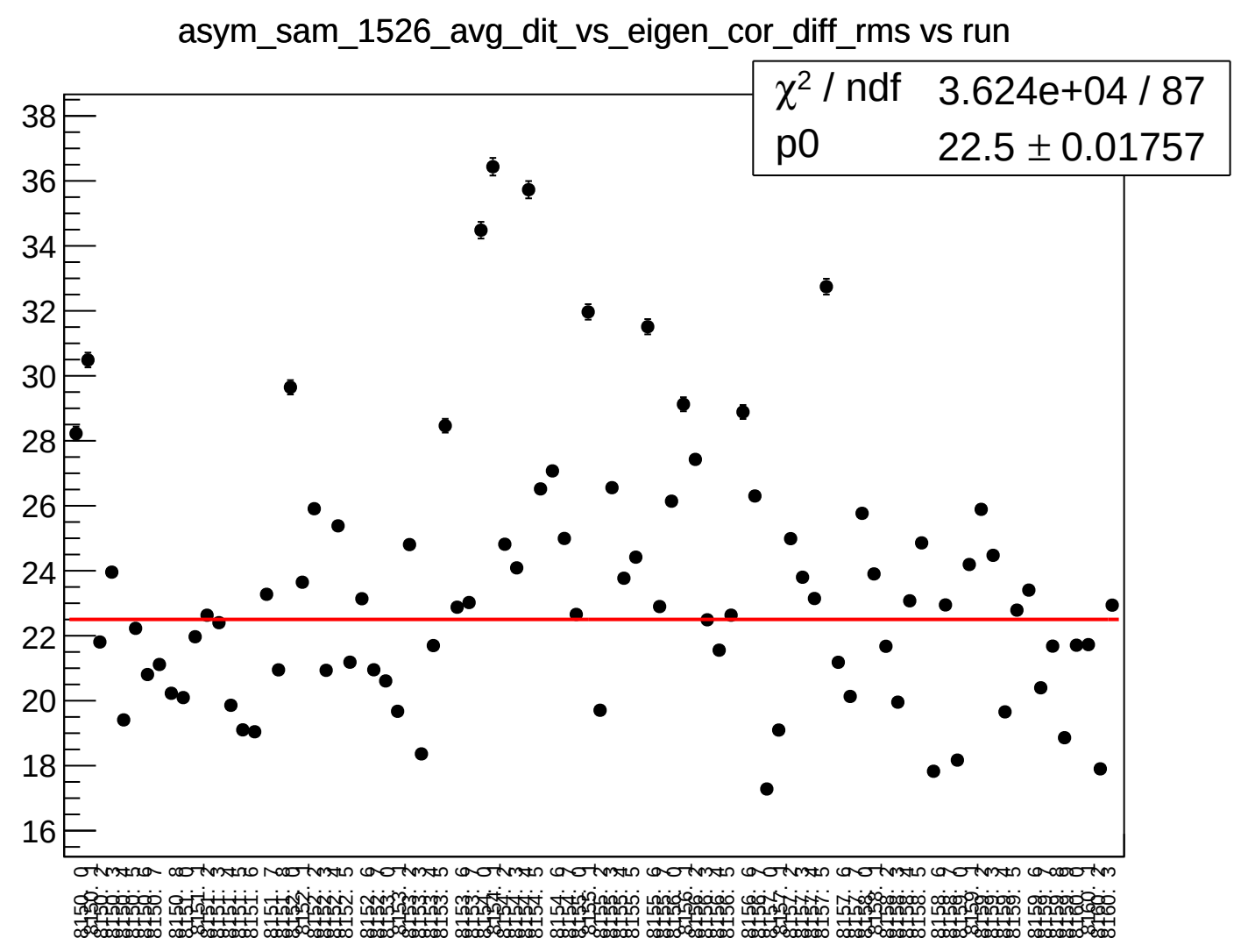

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 89.82 / 87
p0 −7.24e−14 ± 4.727e−14
pull
Entries 88
Mean 104.9
Std Dev 0
pull1D
Entries 88
Mean −0.03905
Std Dev 1.01

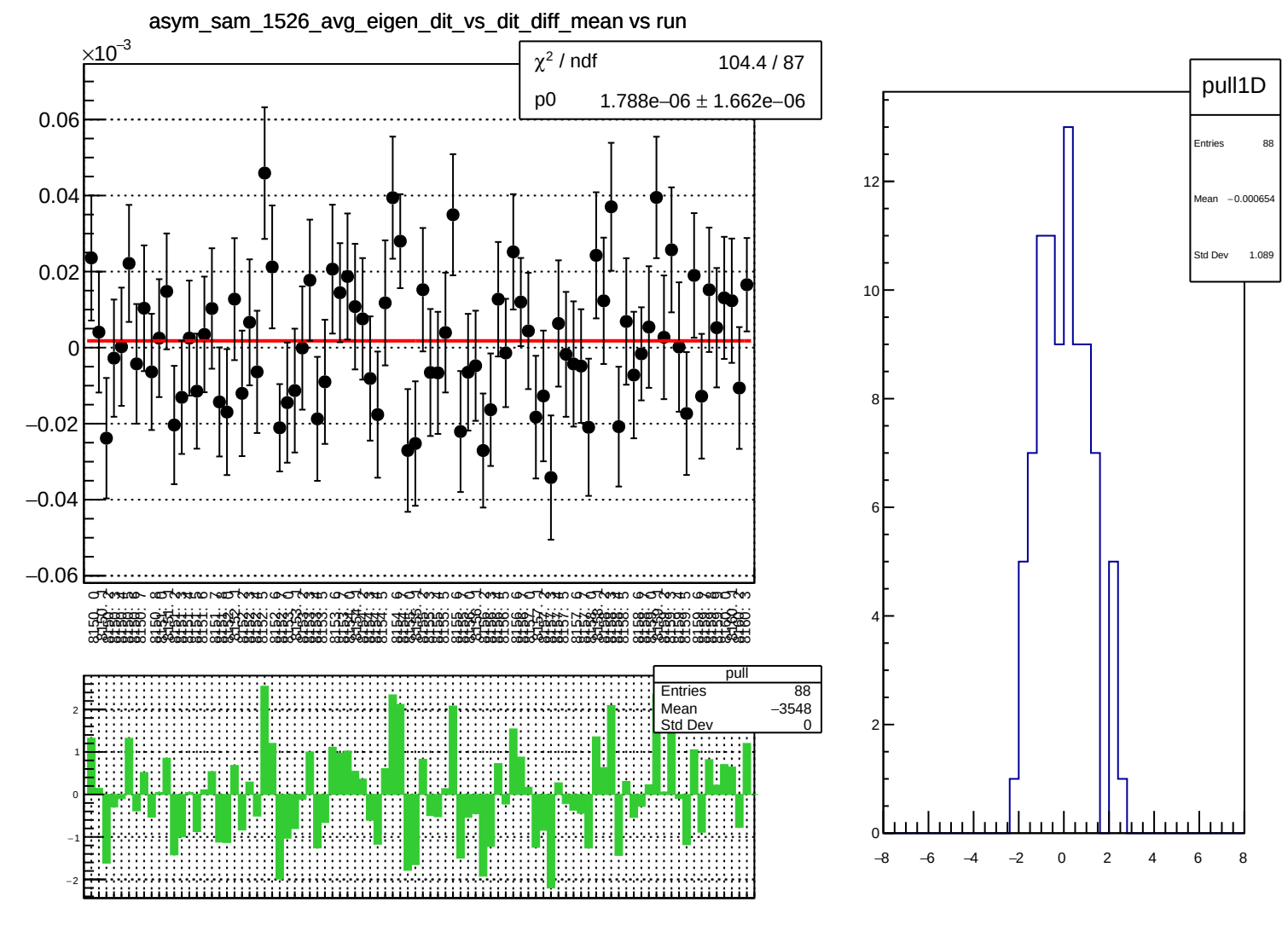

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.474e+05 / 87
p0 3.043e−11 ± 3.343e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

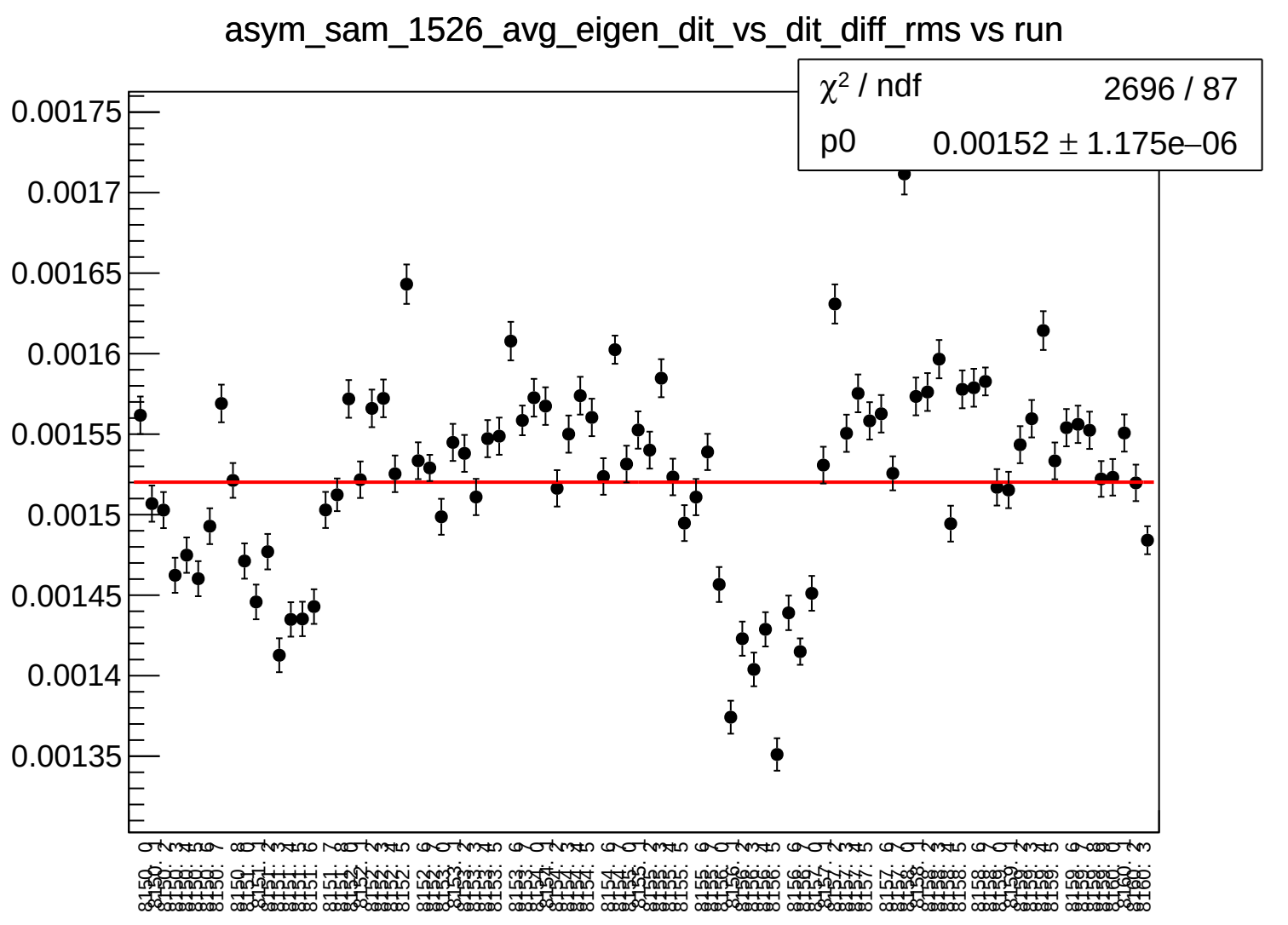

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 87
p0 0.02046 ± 0.02485
pull
Entries 88
Mean 162.9
Std Dev 0
pull1D
Entries 88
Mean 0.006577
Std Dev 1.089

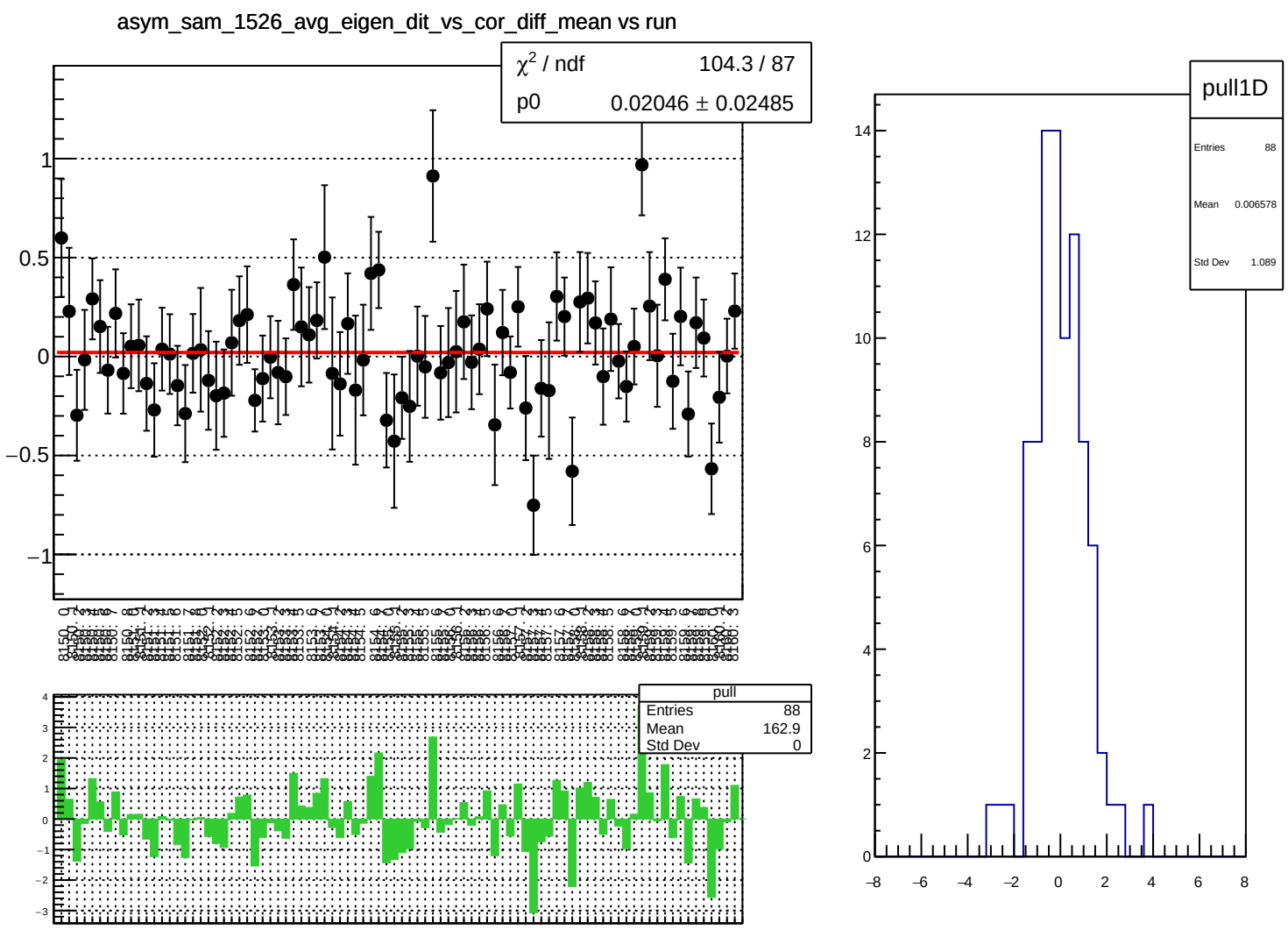

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.624e+04 / 87
p0 22.5 ± 0.01757
38
36
34
32
30
28
26
24
22
20
18
16

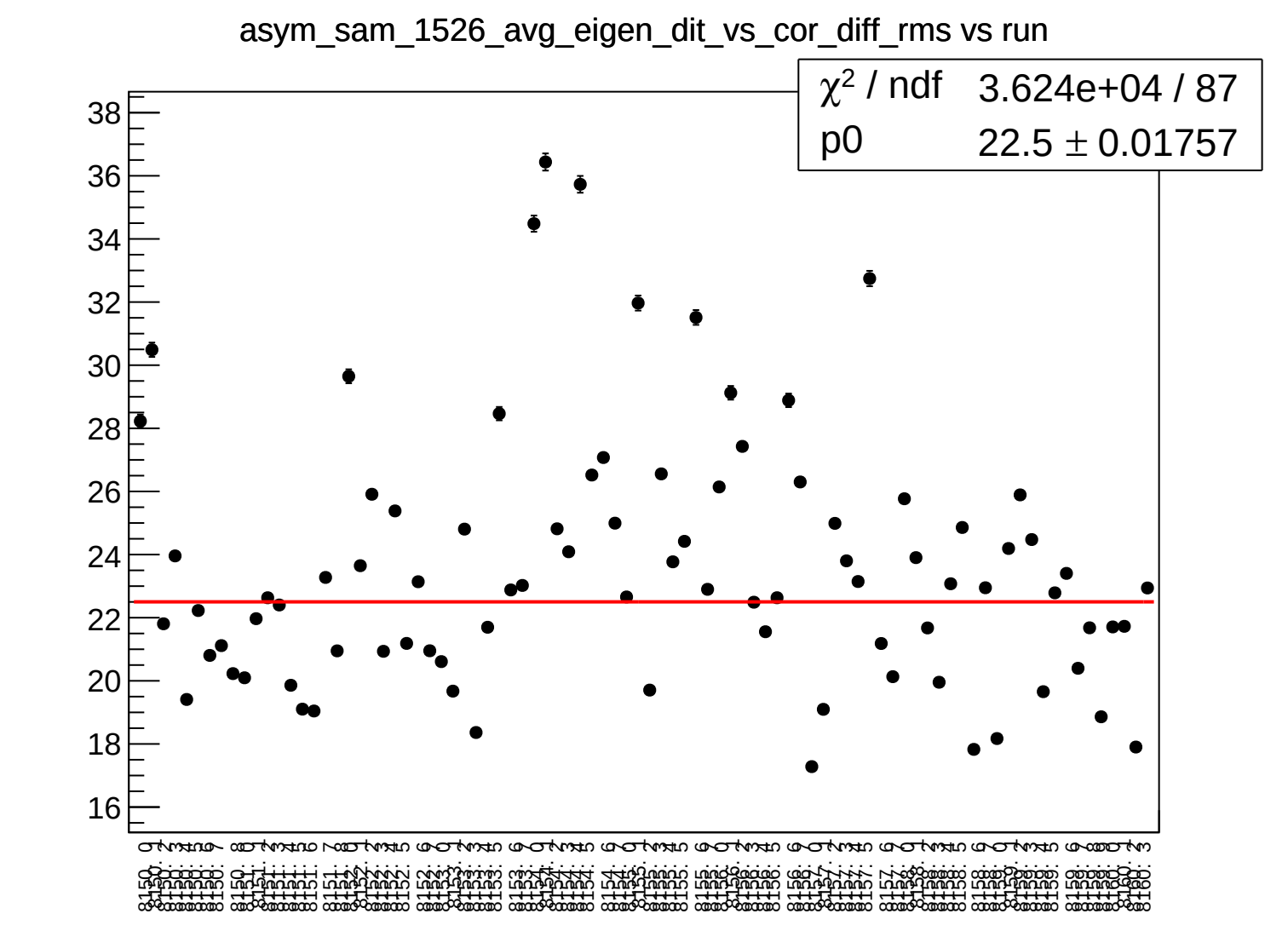

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 87
p0 0.02046 ± 0.02485
pull
Entries 88
Mean 162.9
Std Dev 0
pull1D
Entries 88
Mean 0.006577
Std Dev 1.089

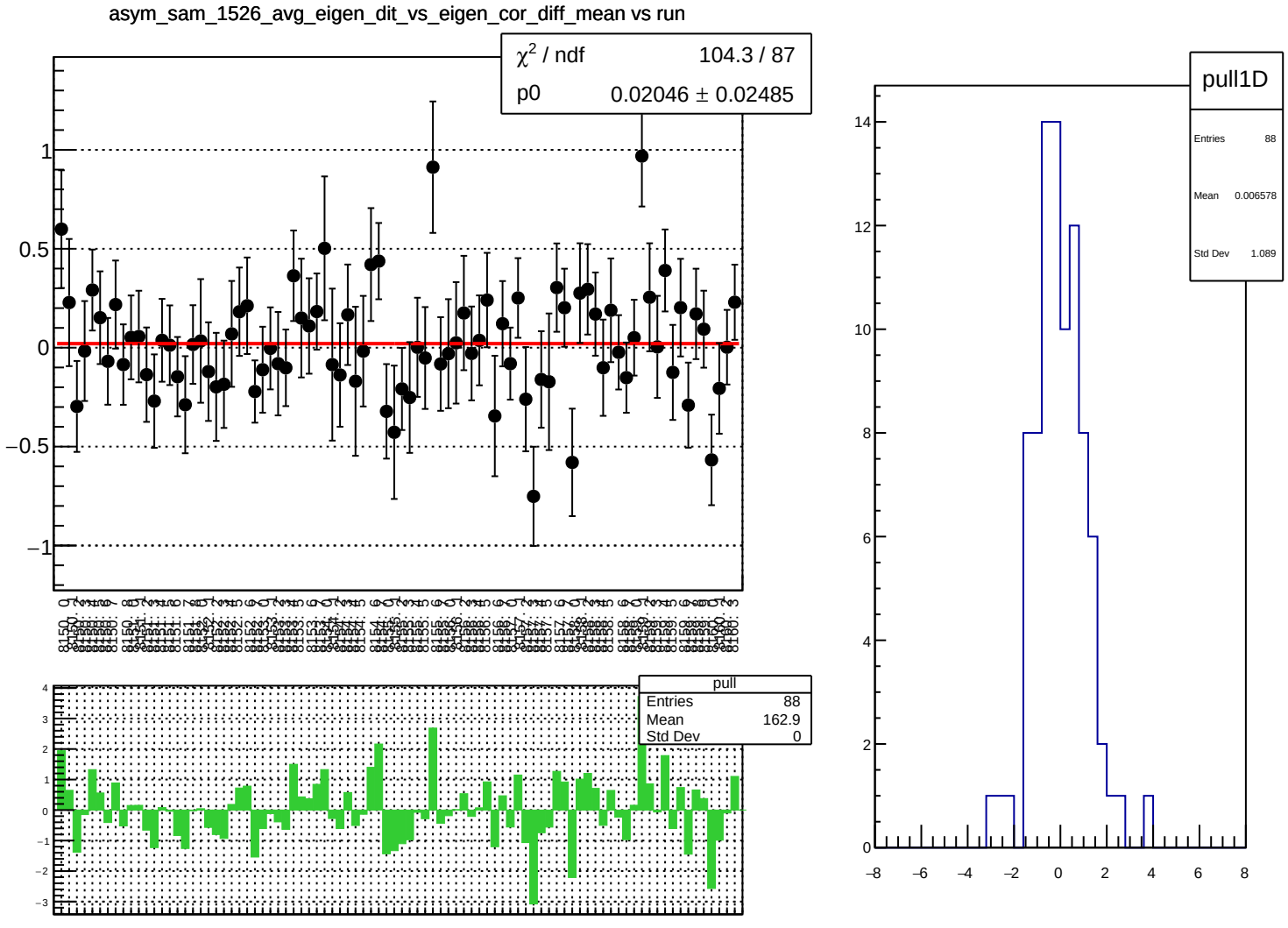

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.624e+04 / 87
p0 22.5 ± 0.01757
38
36
34
32
30
28
26
24
22
20
18
16

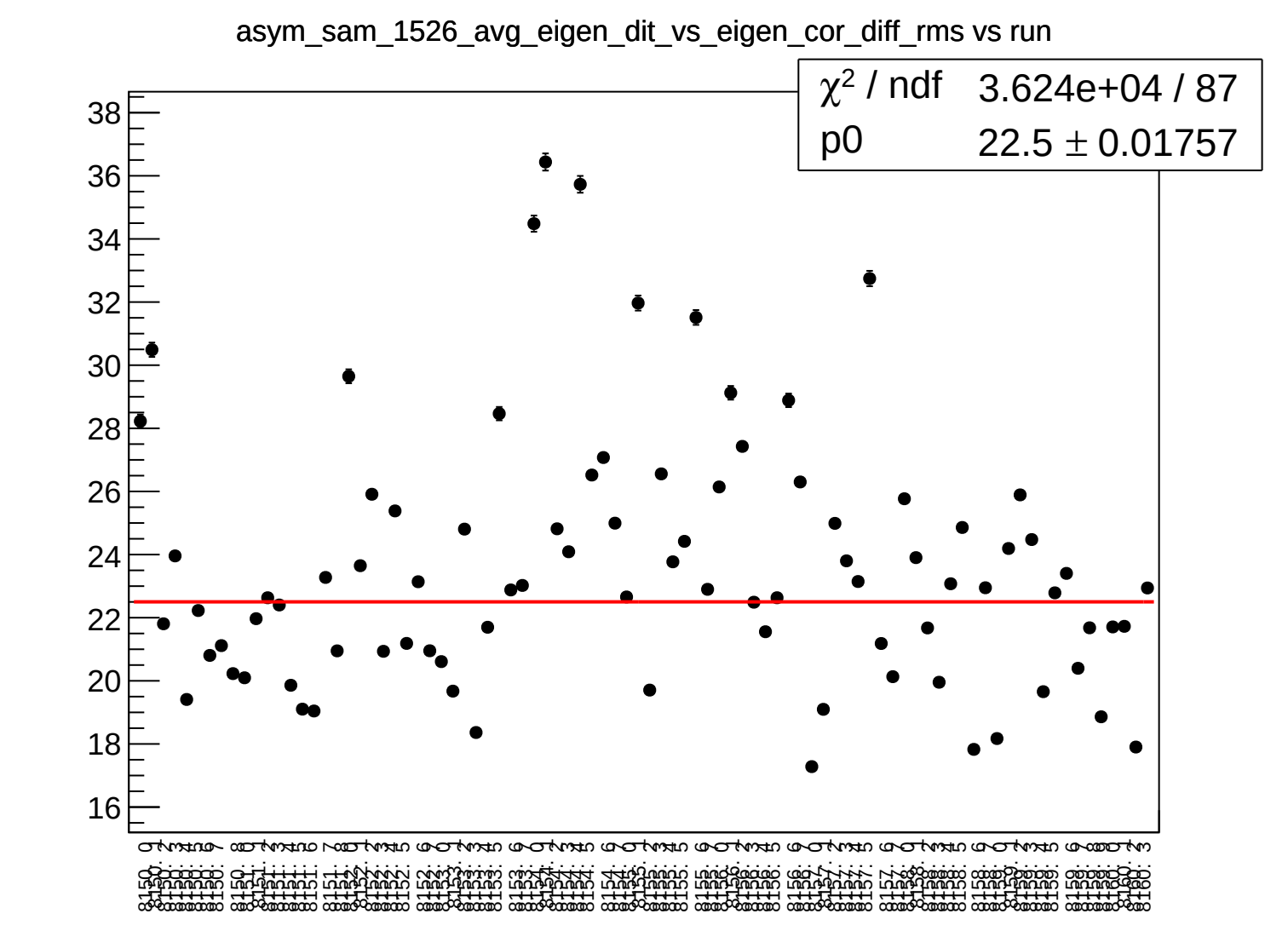

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 104.4 / 87
p0 1.788e−06 ± 1.662e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean −3548
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.000654
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

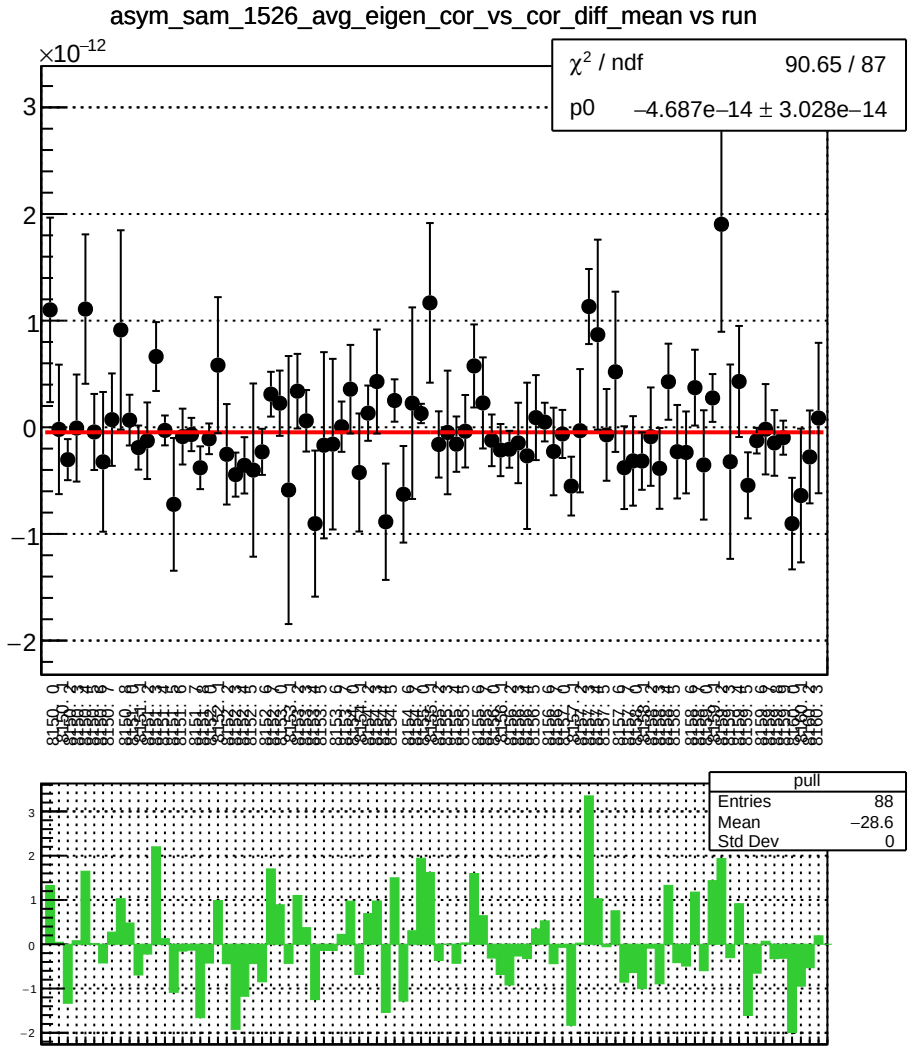

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2696 / 87
p0 0.00152 ± 1.175e−06
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135

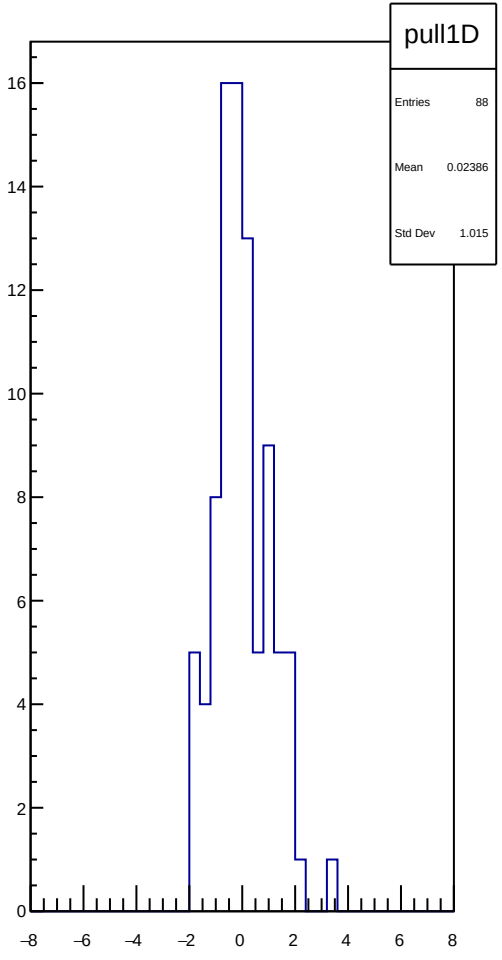

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 87
p0 0.02046 ± 0.02485
pull
Entries 88
Mean 162.9
Std Dev 0
pull1D
Entries 88
Mean 0.006578
Std Dev 1.089

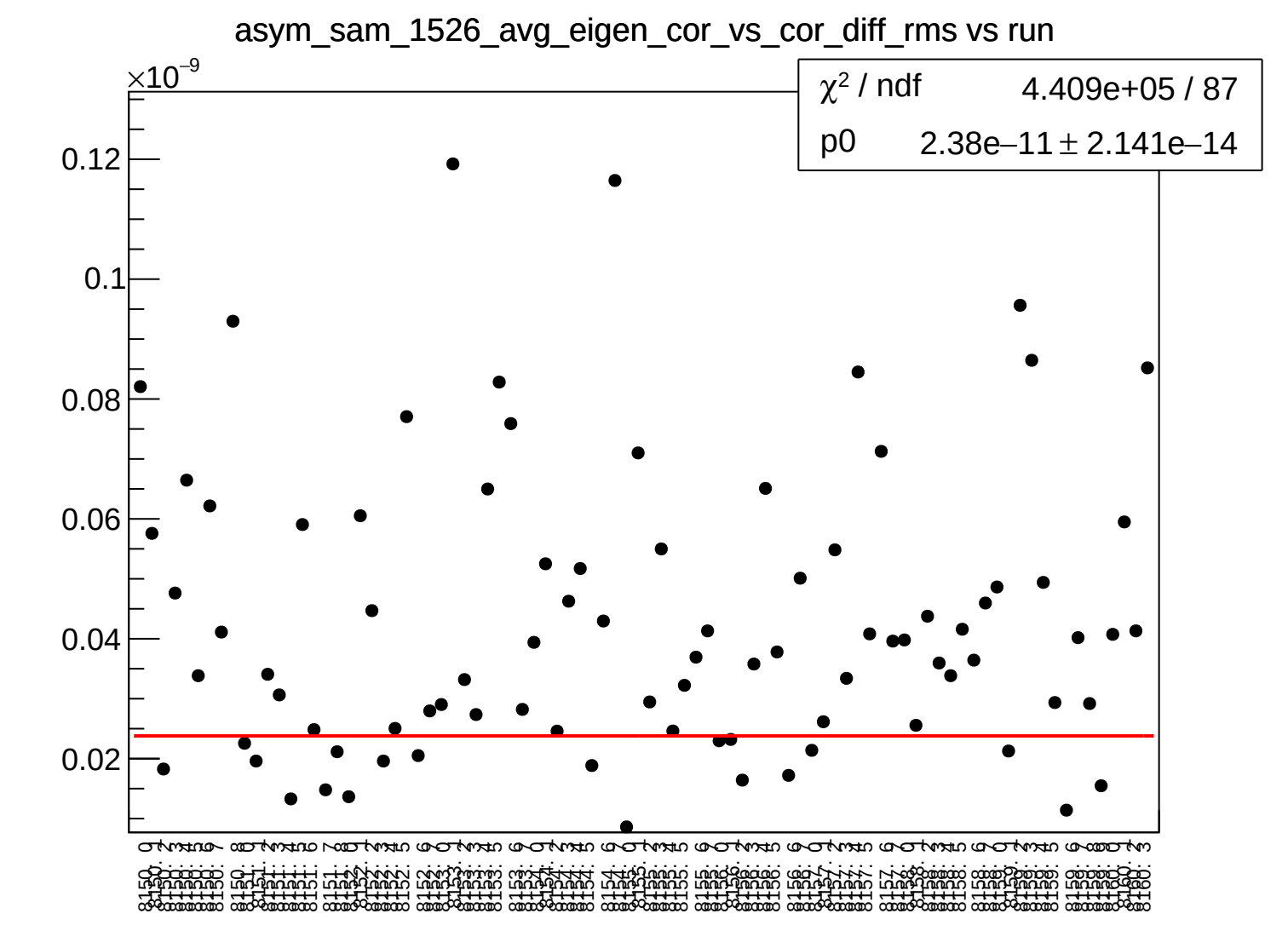

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.624e+04 / 87
p0 22.5 ± 0.01757
38
36
34
32
30
28
26
24
22
20
18
16

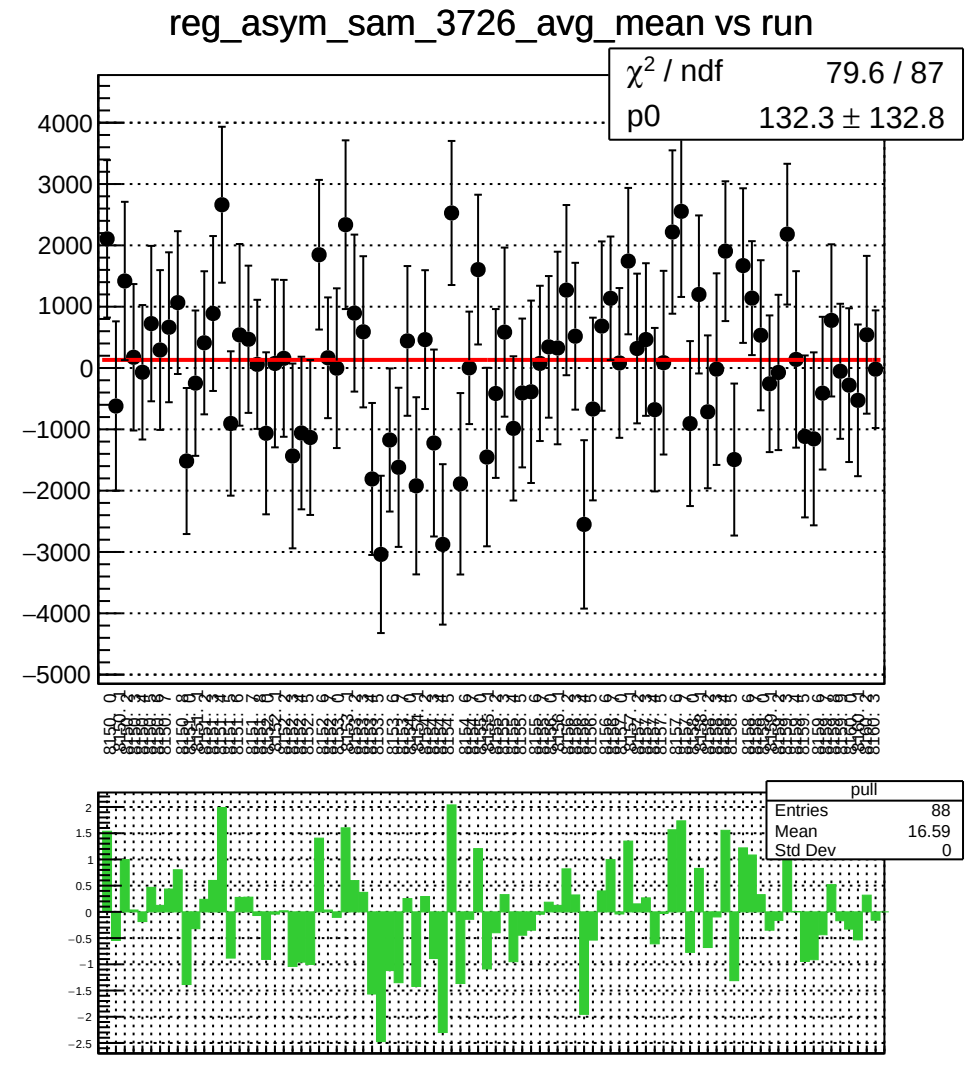

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 87
p0 0.02046 ± 0.02485
pull
Entries 88
Mean 162.9
Std Dev 0
pull1D
Entries 88
Mean 0.006578
Std Dev 1.089

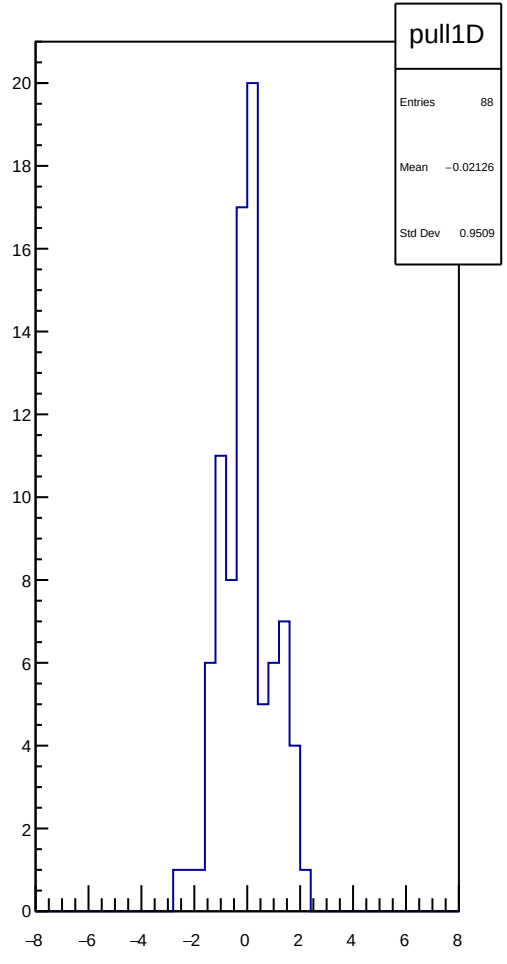

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.624e+04 / 87
p0 22.5 ± 0.01757
38
36
34
32
30
28
26
24
22
20
18
16

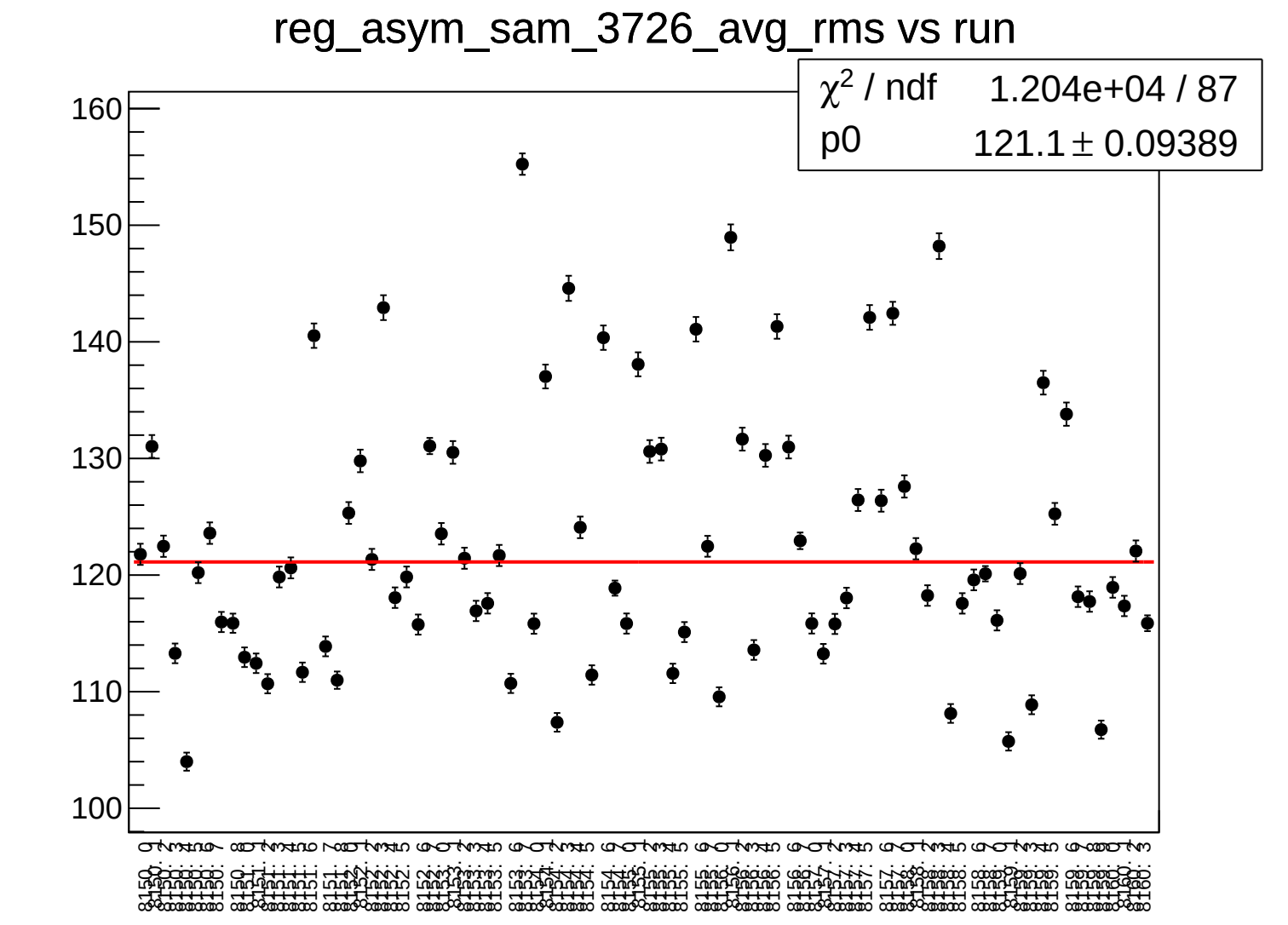

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.65 / 87
p0 −4.687e−14 ± 3.028e−14
pull
Entries 88
Mean −28.6
Std Dev 0

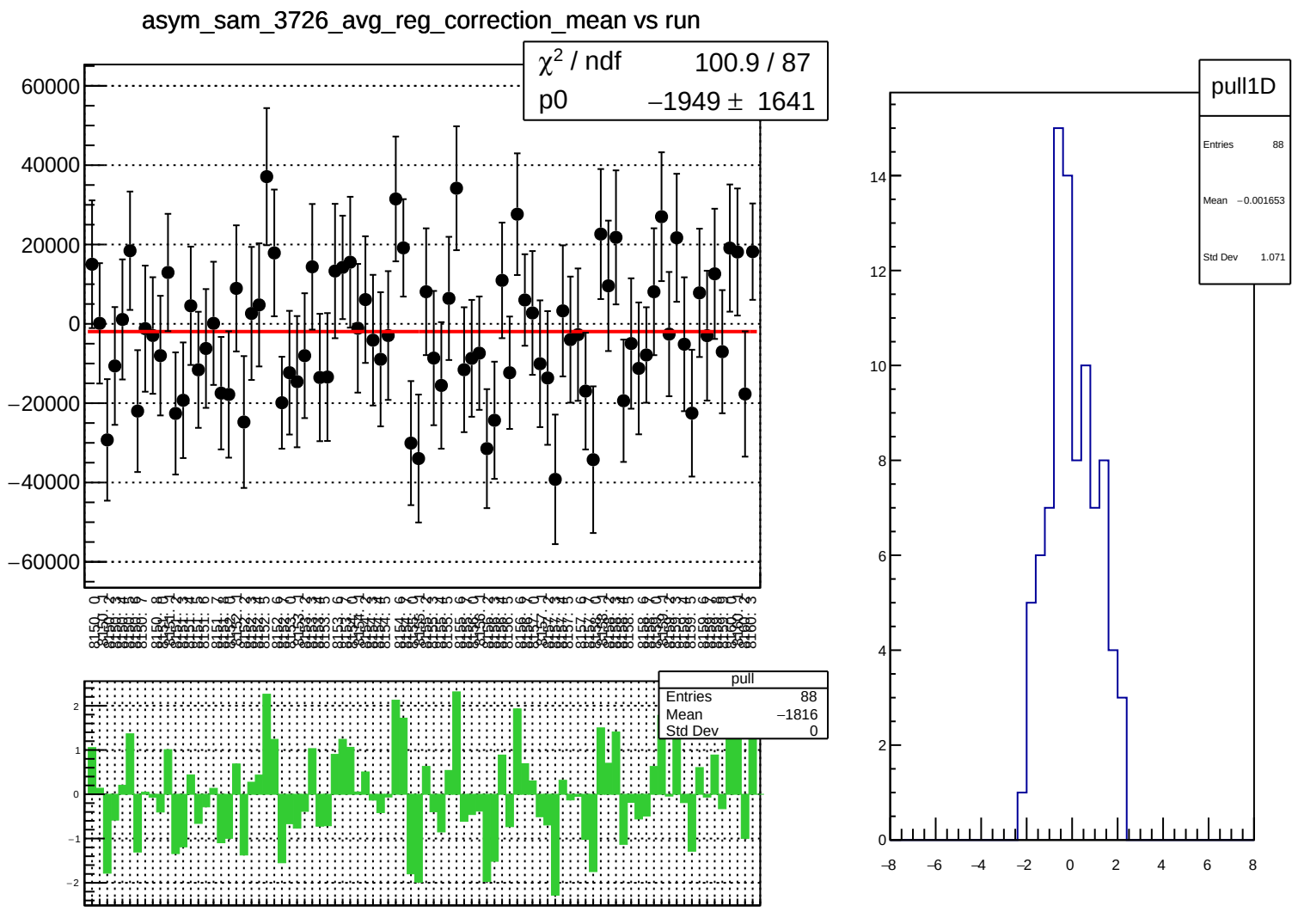

pull1D
Entries 88
Mean 0.02386
Std Dev 1.015

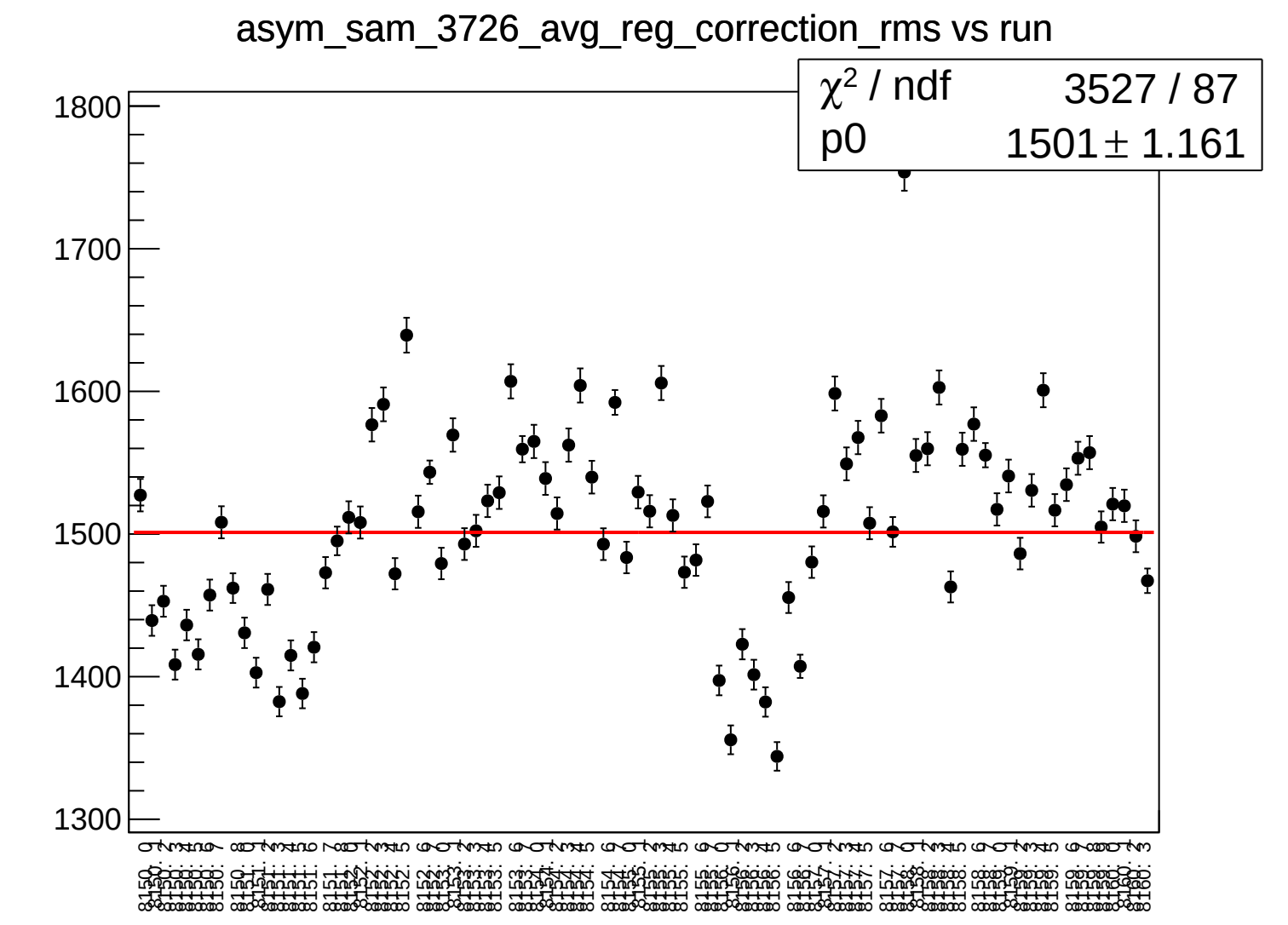

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.409e+05 / 87
p0 2.38e−11 ± 2.141e−14
0.12
0.1
0.08
0.06
0.04
0.02

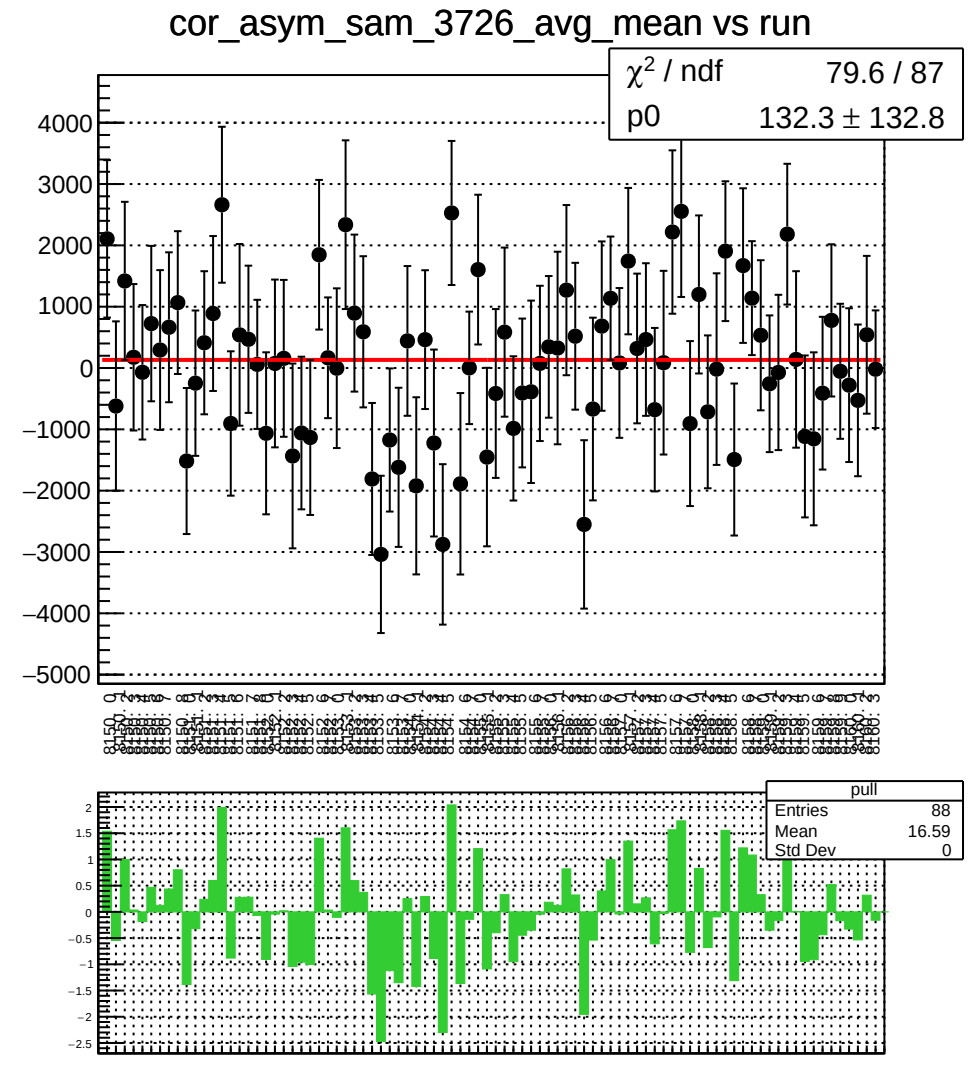

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 79.6 / 87
p0 132.3 ± 132.8
pull
Entries 88
Mean 16.59
Std Dev 0

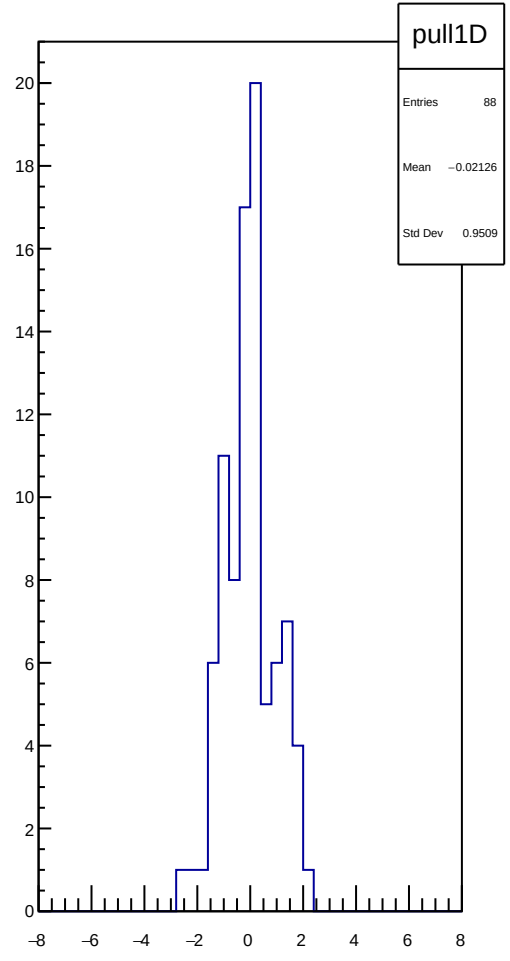

pull1D
Entries 88
Mean −0.02126
Std Dev 0.9509

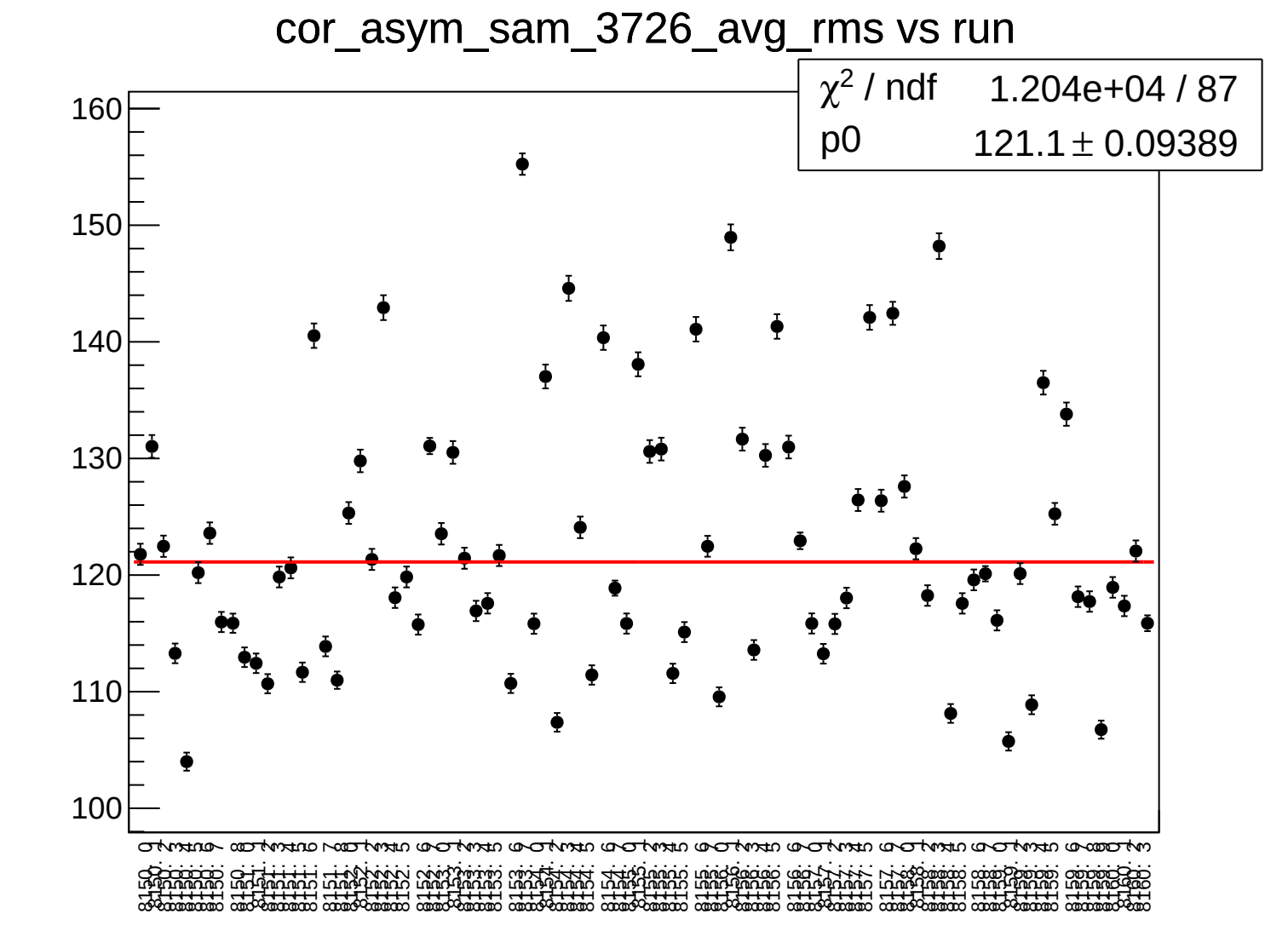

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.204e+04 / 87
p0 121.1 ± 0.09389
160
150
140
130
120
110
100

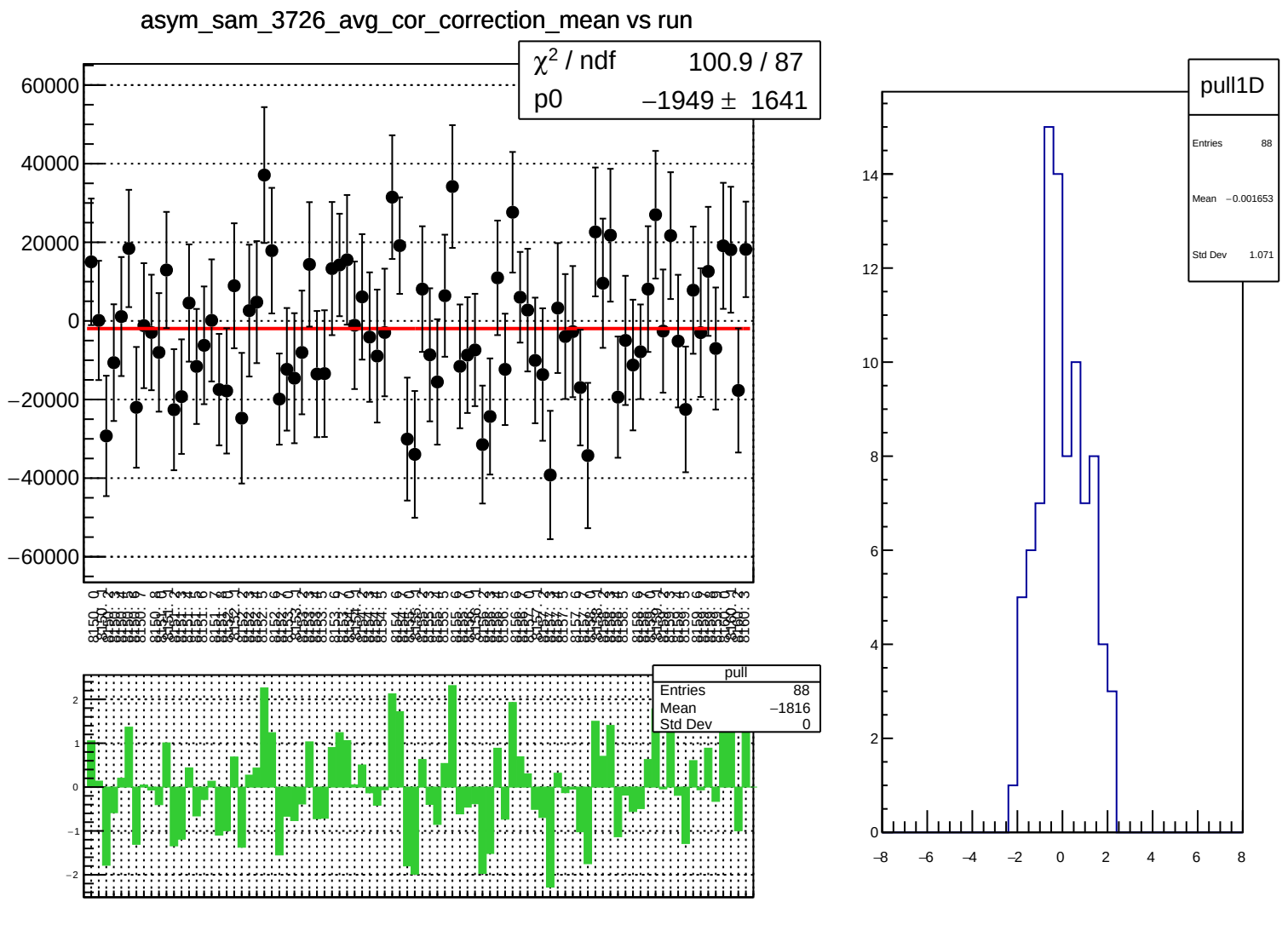

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 100.9 / 87
p0 −1949 ± 1641
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1816
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001653
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

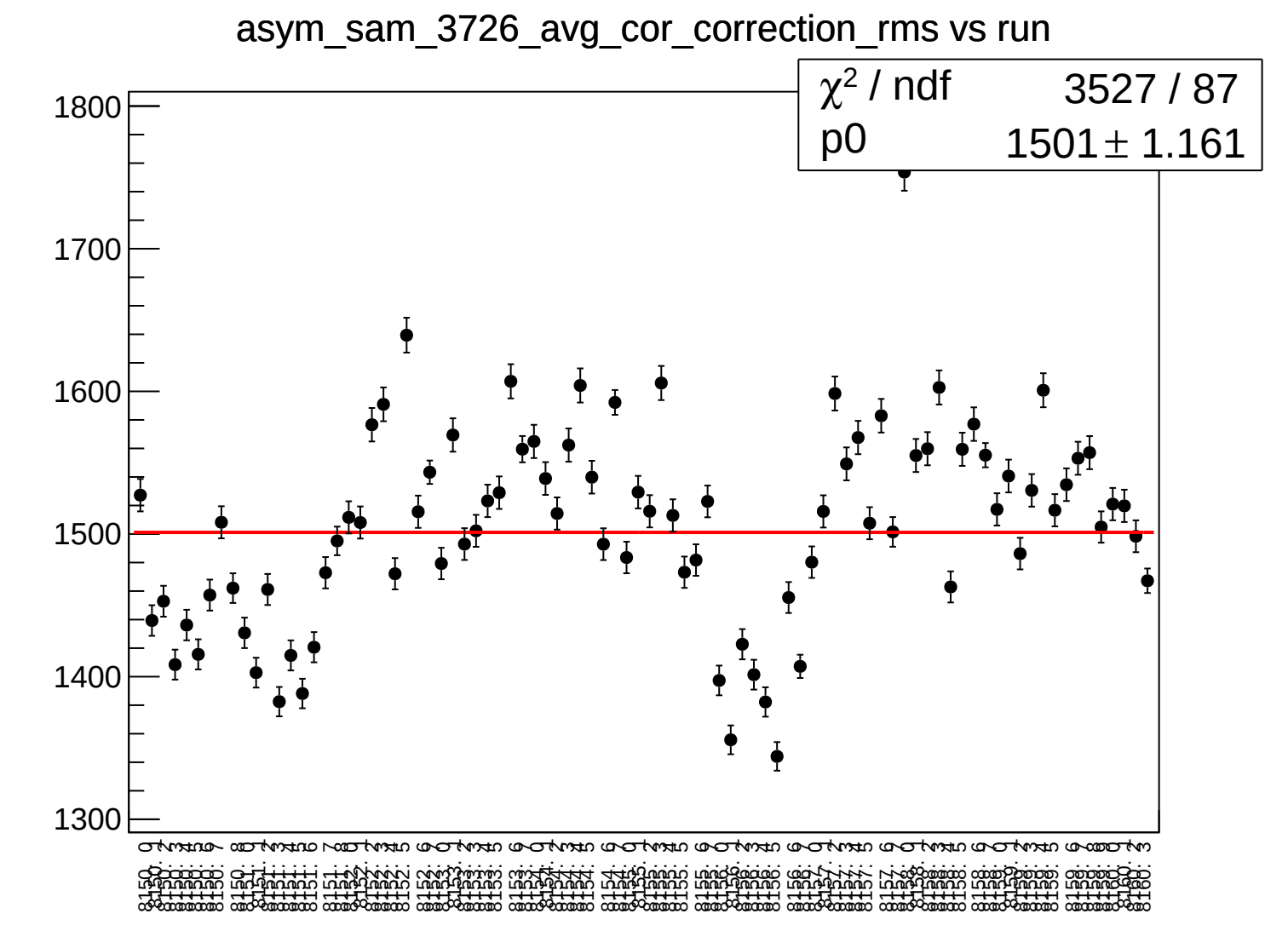

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 3527 / 87
p0 1501 ± 1.161
1800
1700
1600
1500
1400
1300

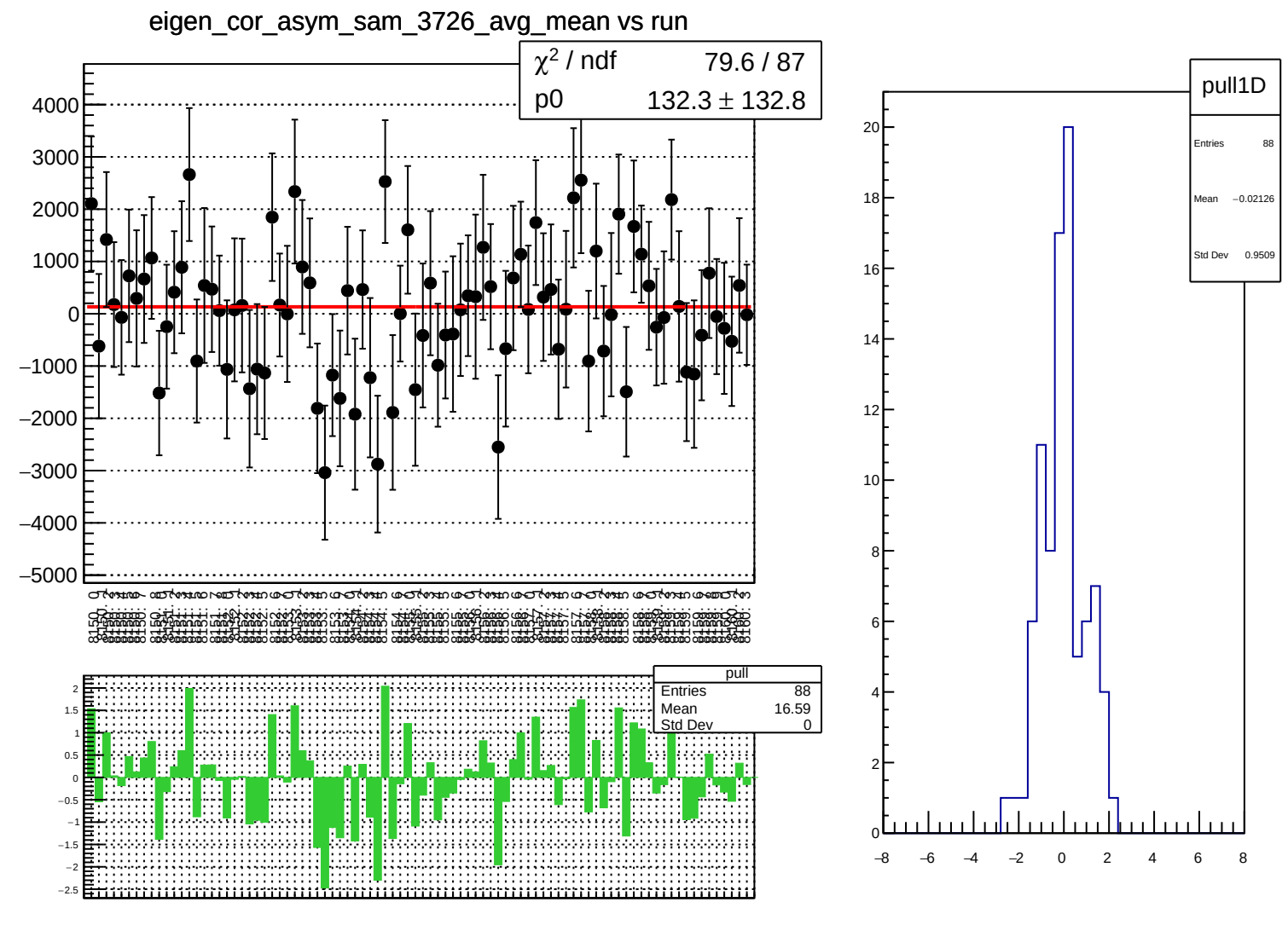

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 79.6 / 87
p0 132.3 ± 132.8
pull
Entries 88
Mean 16.59
Std Dev 0

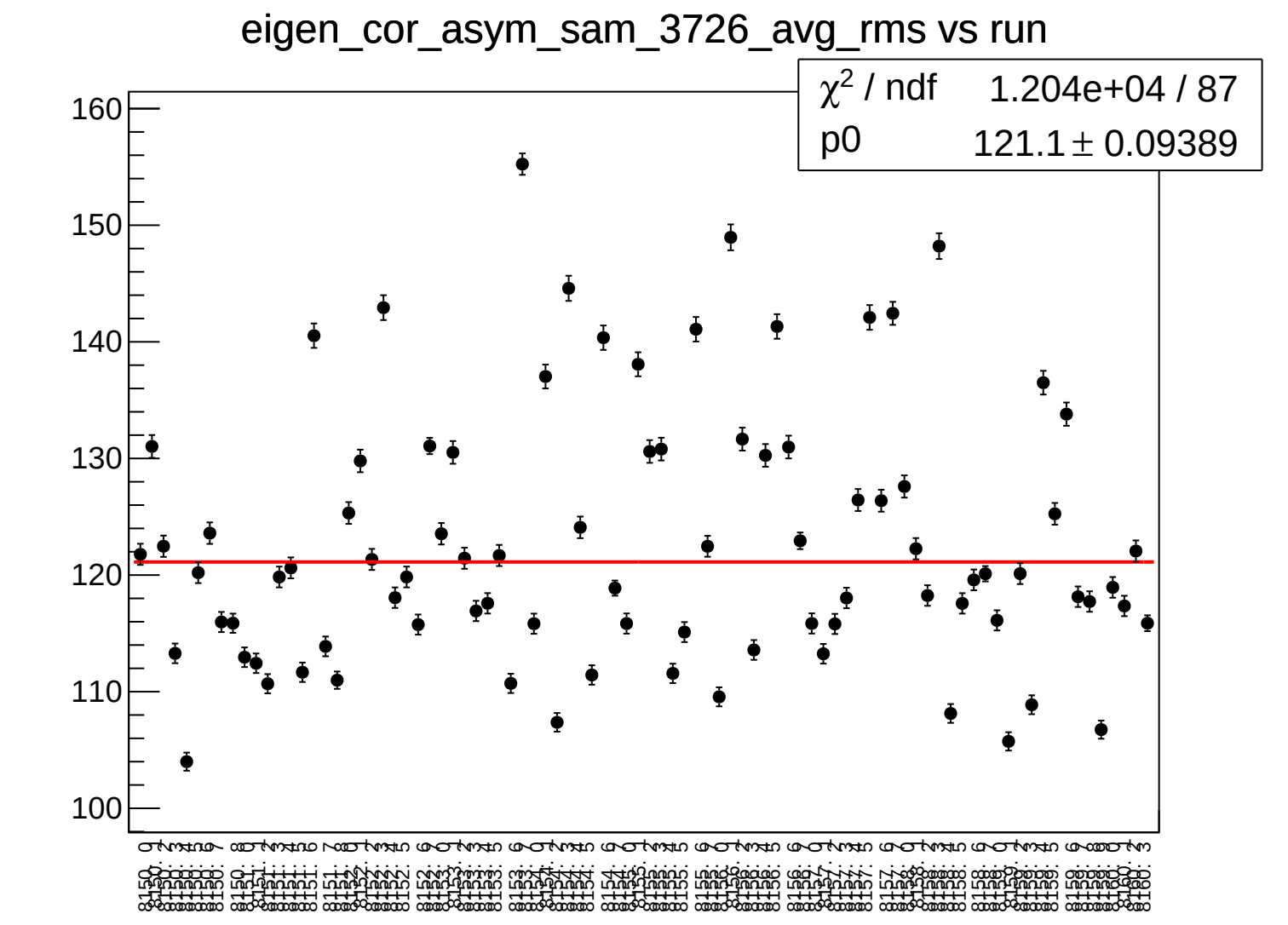

pull1D
Entries 88
Mean −0.02126
Std Dev 0.9509

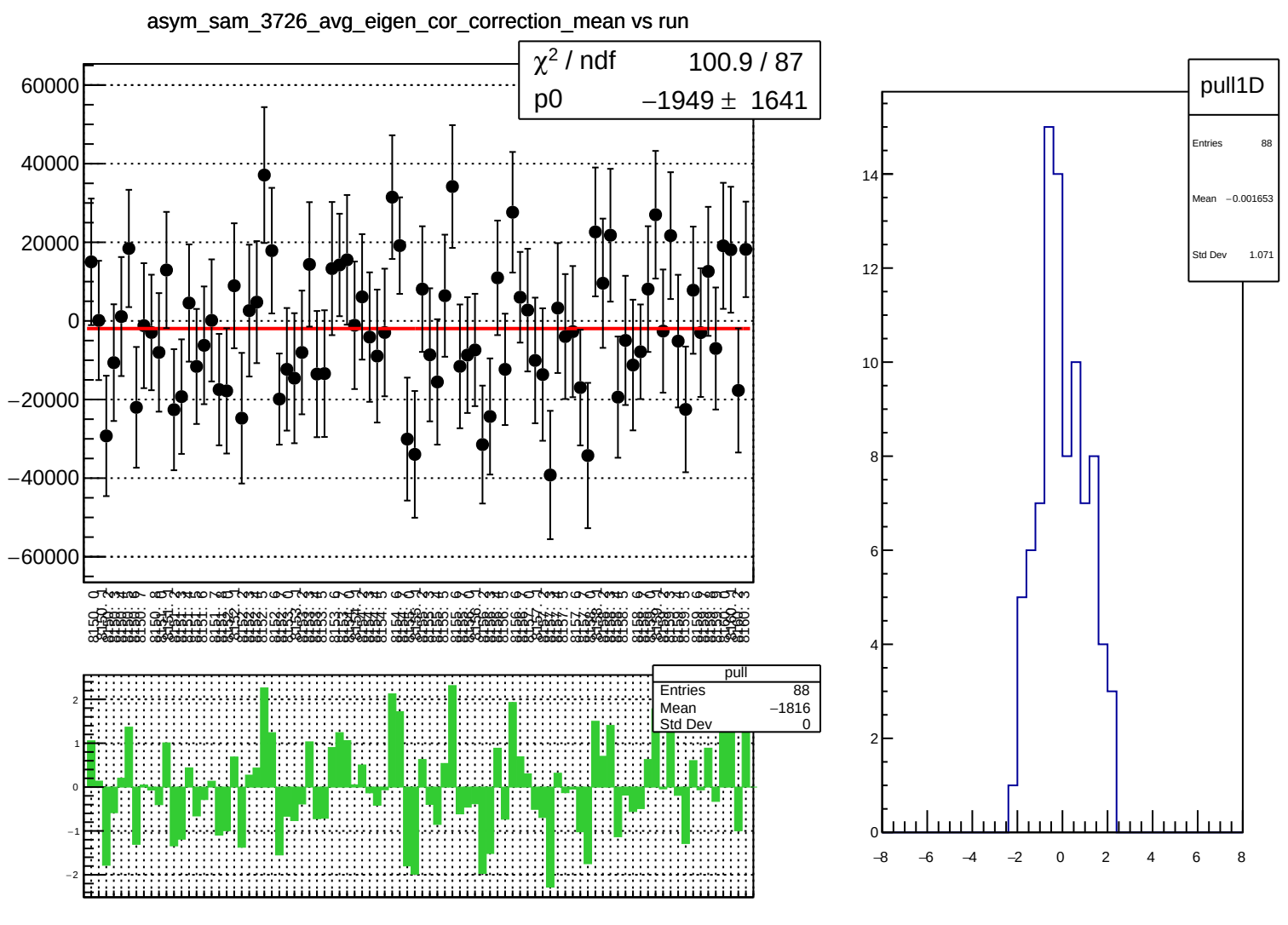

cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.204e+04 / 87
p0 121.1 ± 0.09389
160
150
140
130
120
110
100

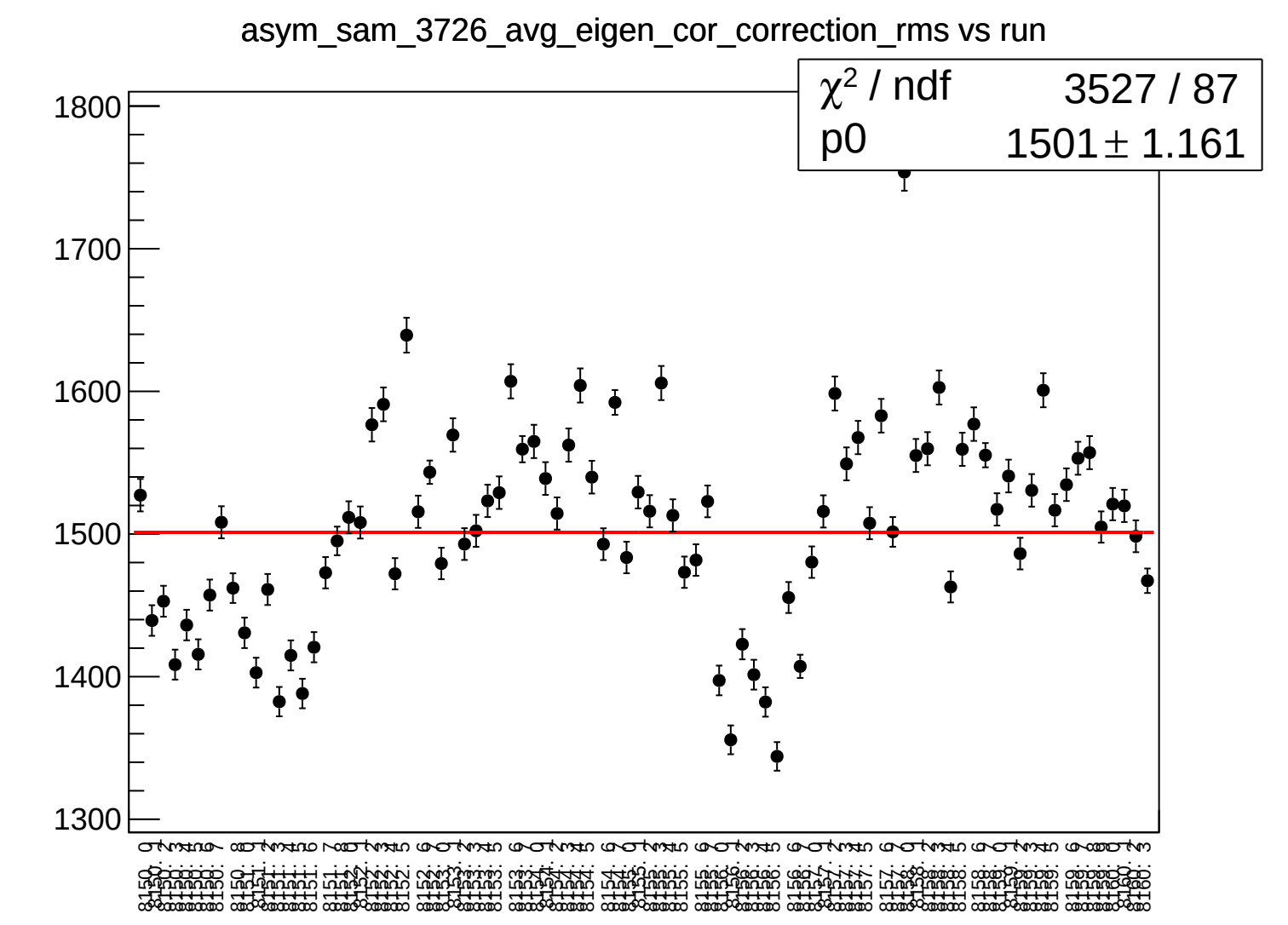

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 100.9 / 87
p0 −1949 ± 1641
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1816
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001653
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

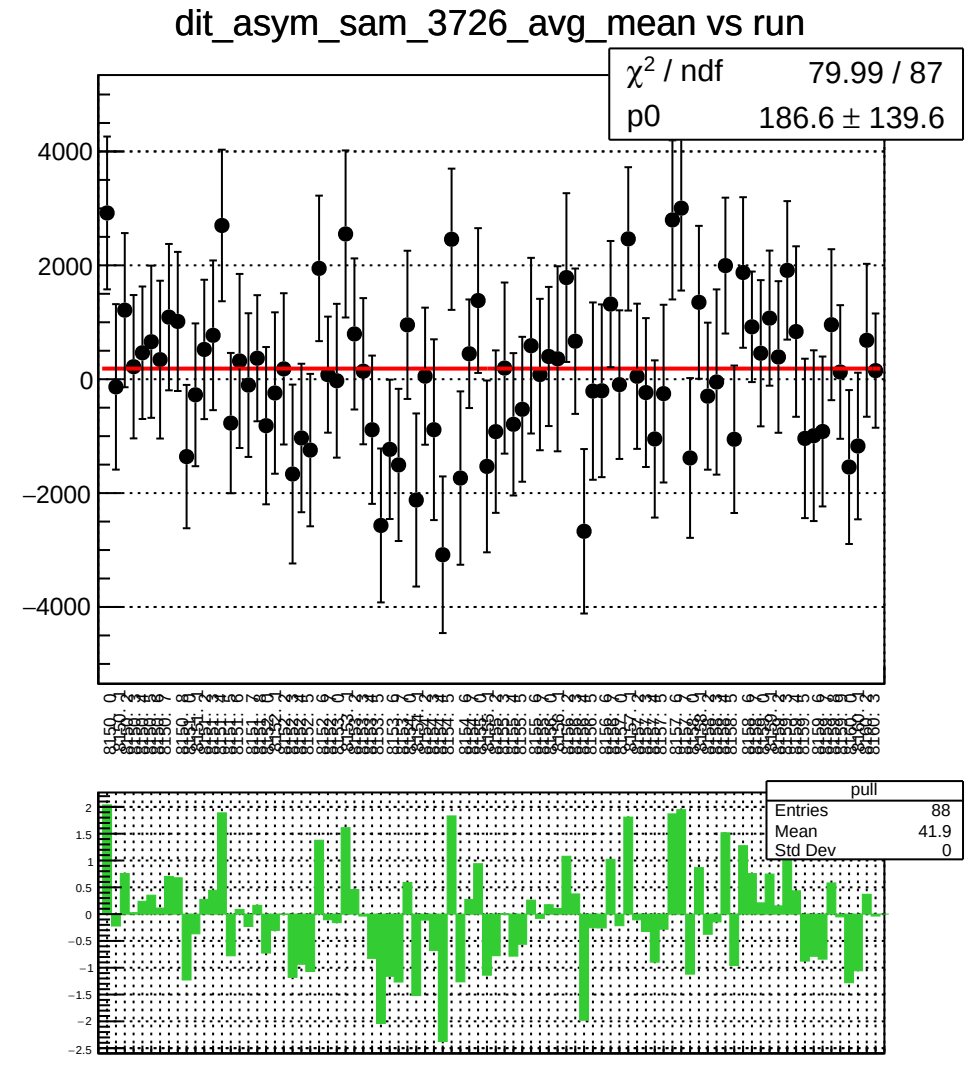

asym_sam_3726_avg_cor_correction_rms vs run
χ^2 / ndf 3527 / 87
p0 1501 ± 1.161
1800
1700
1600
1500
1400
1300

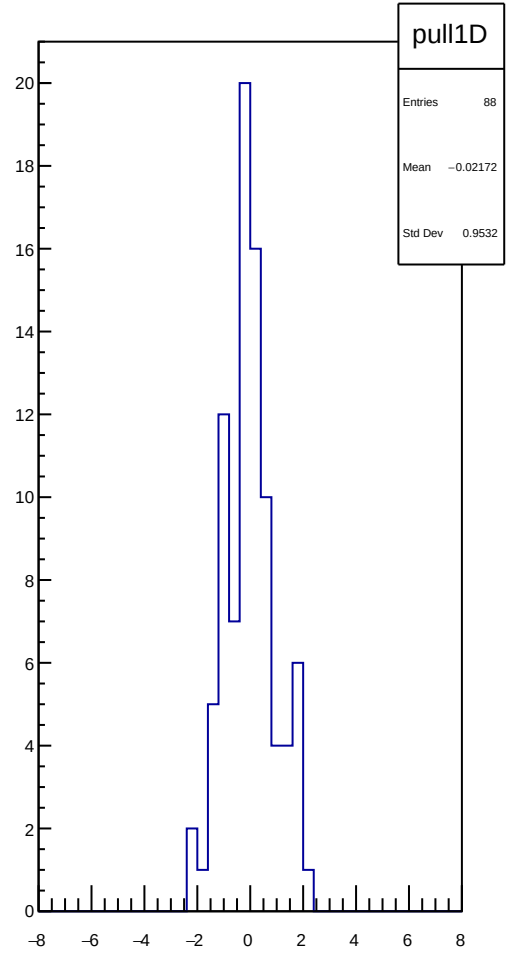

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 79.6 / 87
p0 132.3 ± 132.8
pull
Entries 88
Mean 16.59
Std Dev 0
pull1D
Entries 88
Mean −0.02126
Std Dev 0.9509

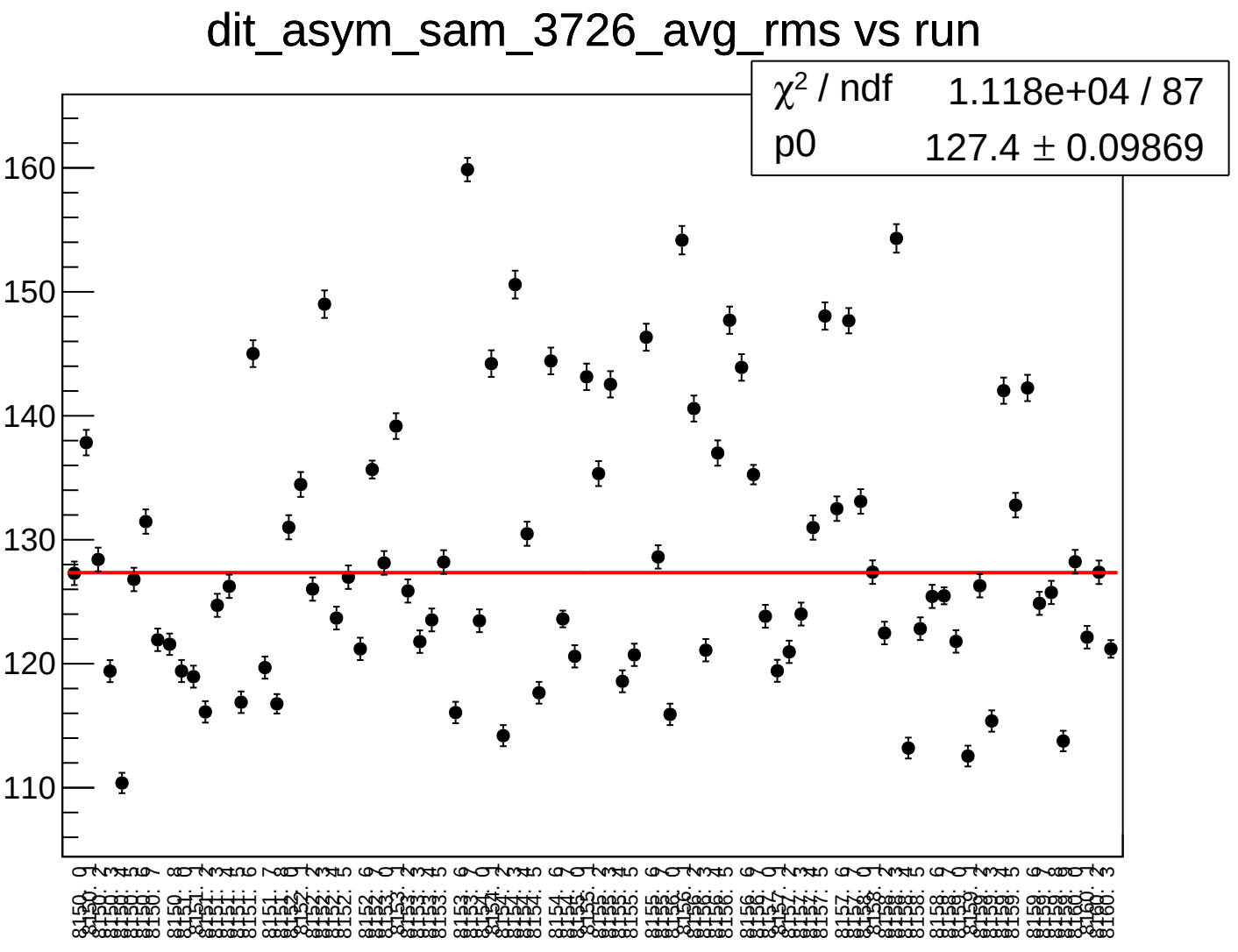

eigen_cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.204e+04 / 87
p0 121.1 ± 0.09389
160
150
140
130
120
110
100

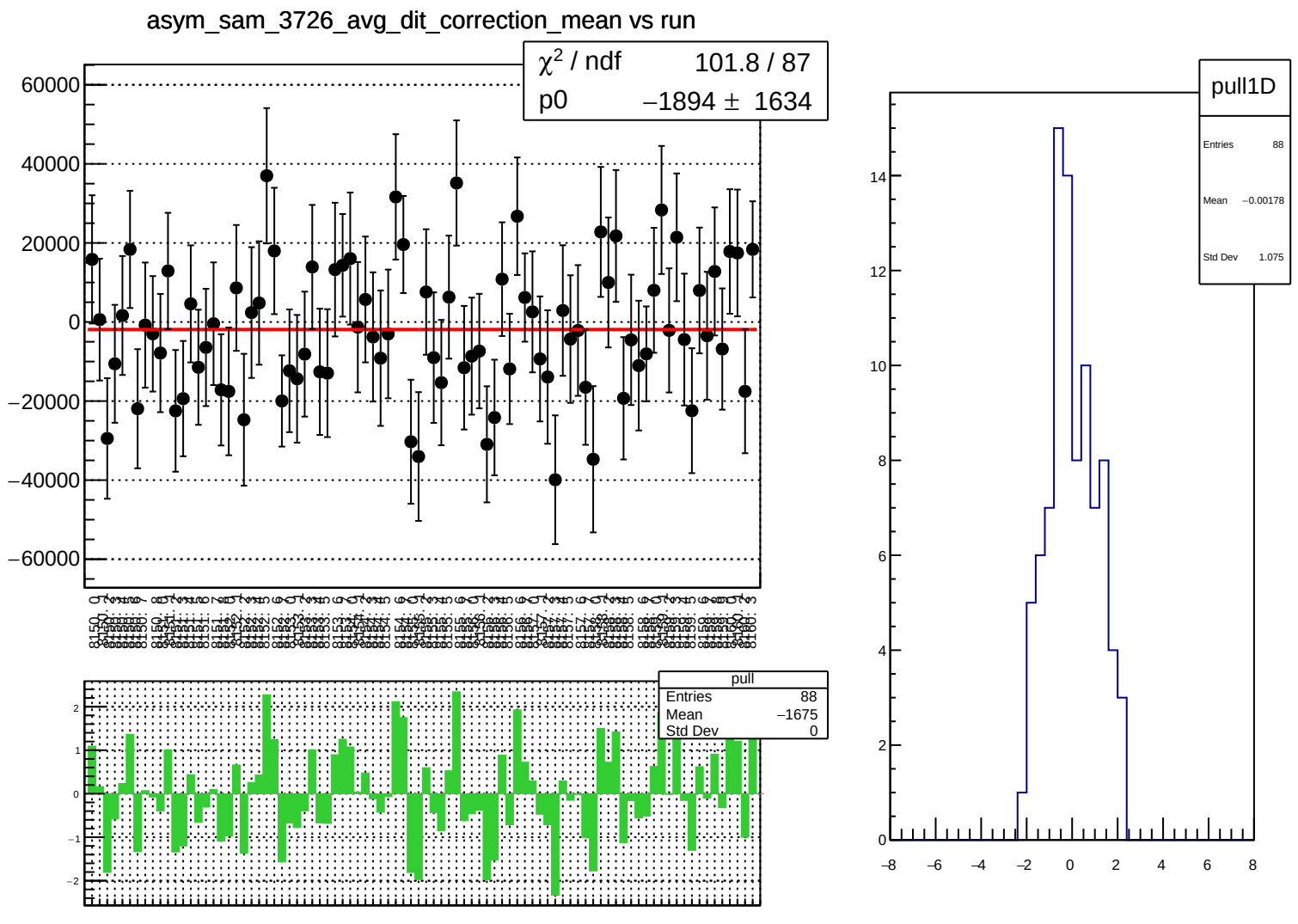

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.9 / 87
p0 −1949 ± 1641
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1816
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001653
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

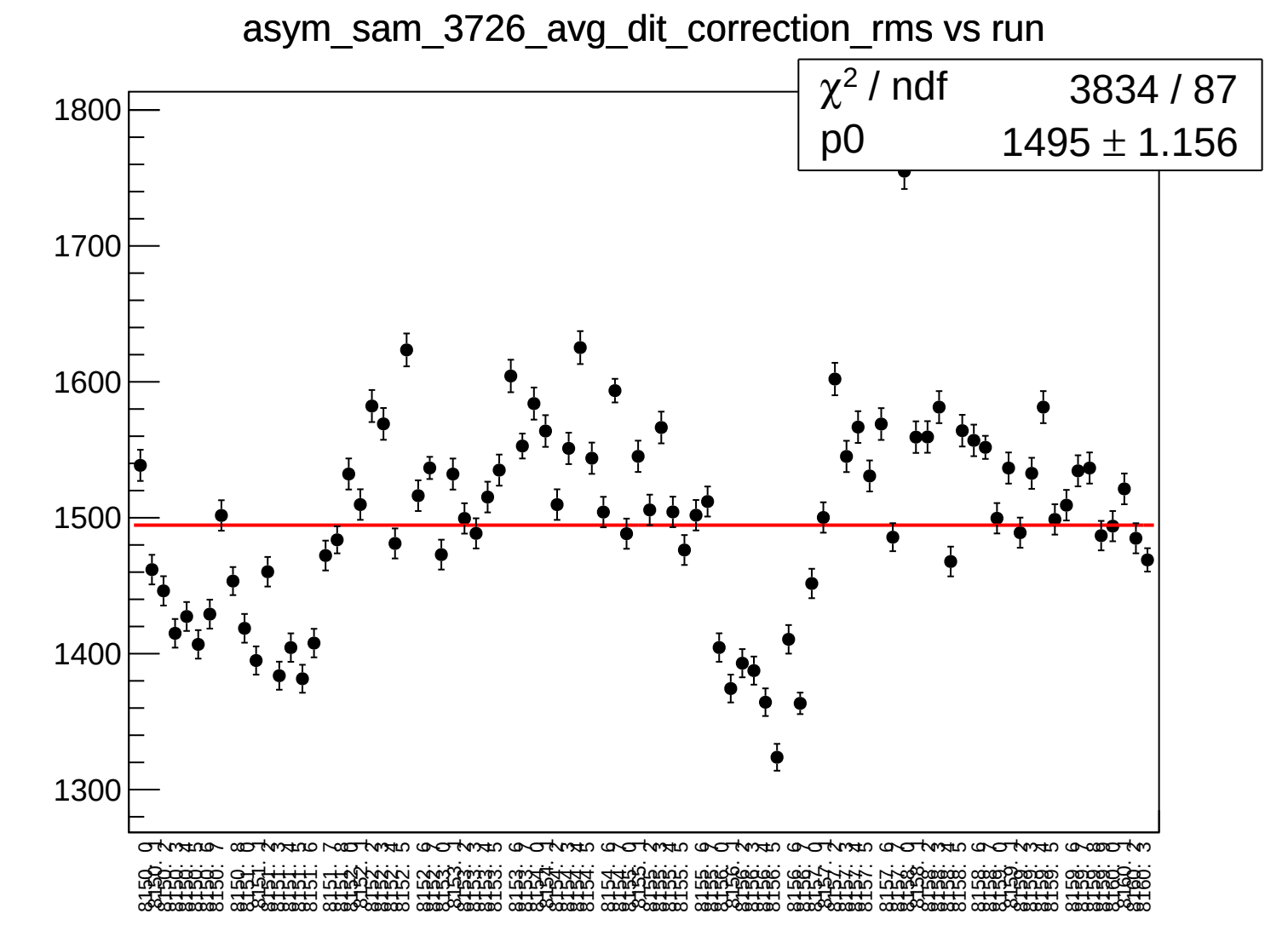

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 3527 / 87
p0 1501 ± 1.161
1800
1700
1600
1500
1400
1300

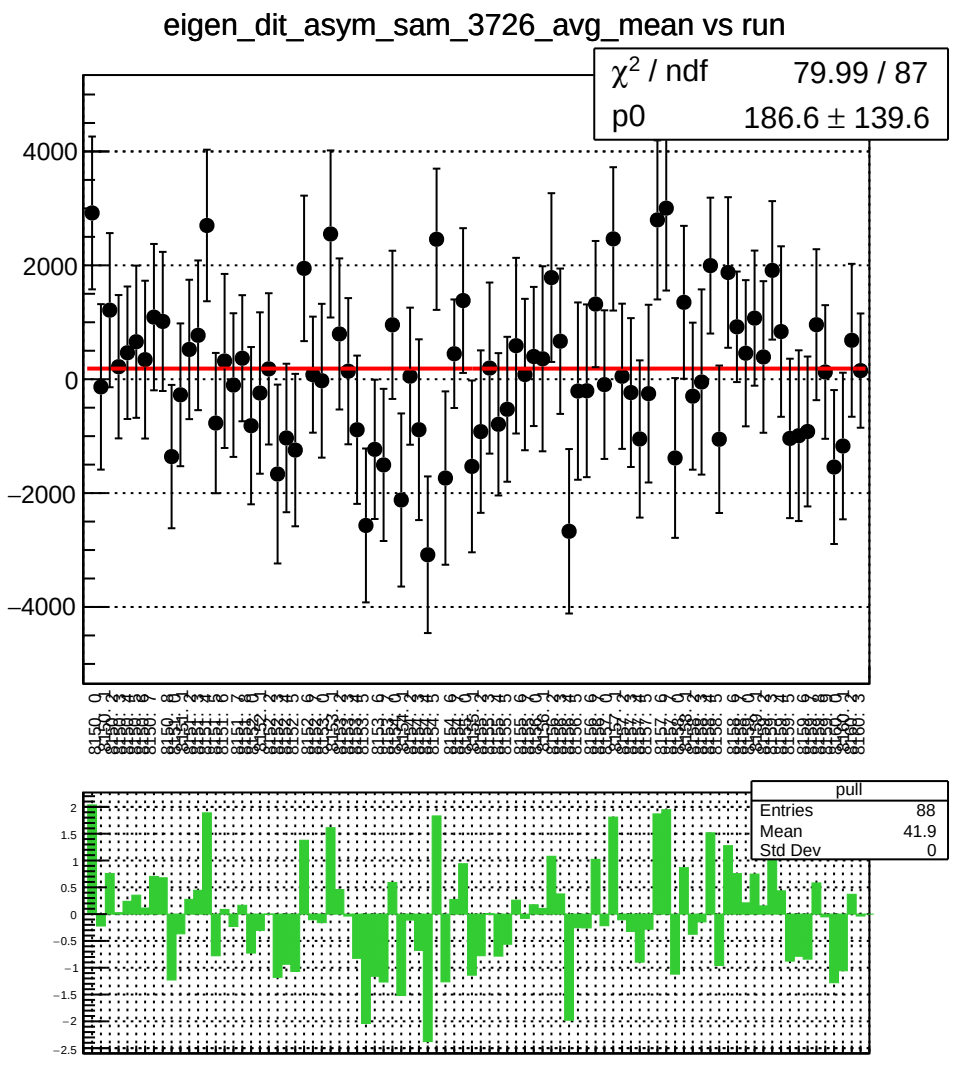

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 79.99 / 87
p0 186.6 ± 139.6
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 41.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

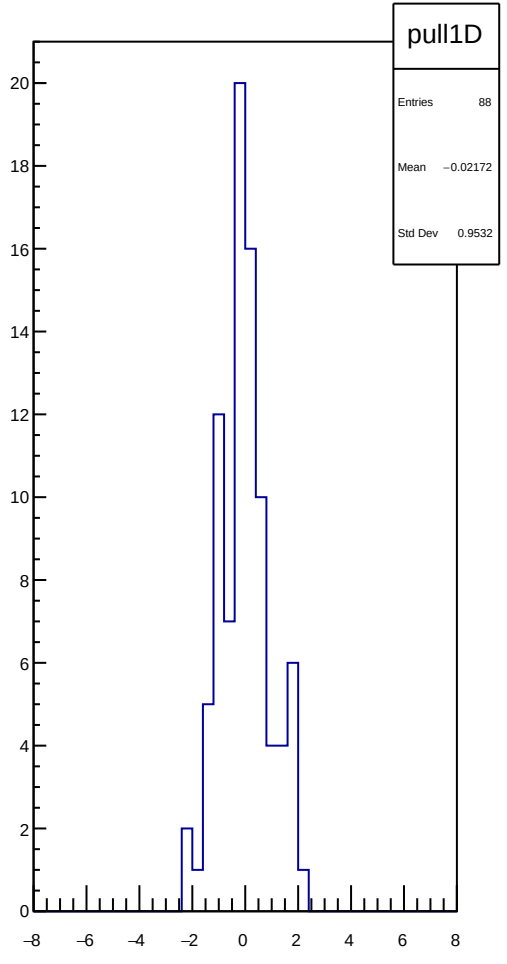

pull1D
Entries 88
Mean −0.02172
Std Dev 0.9532
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

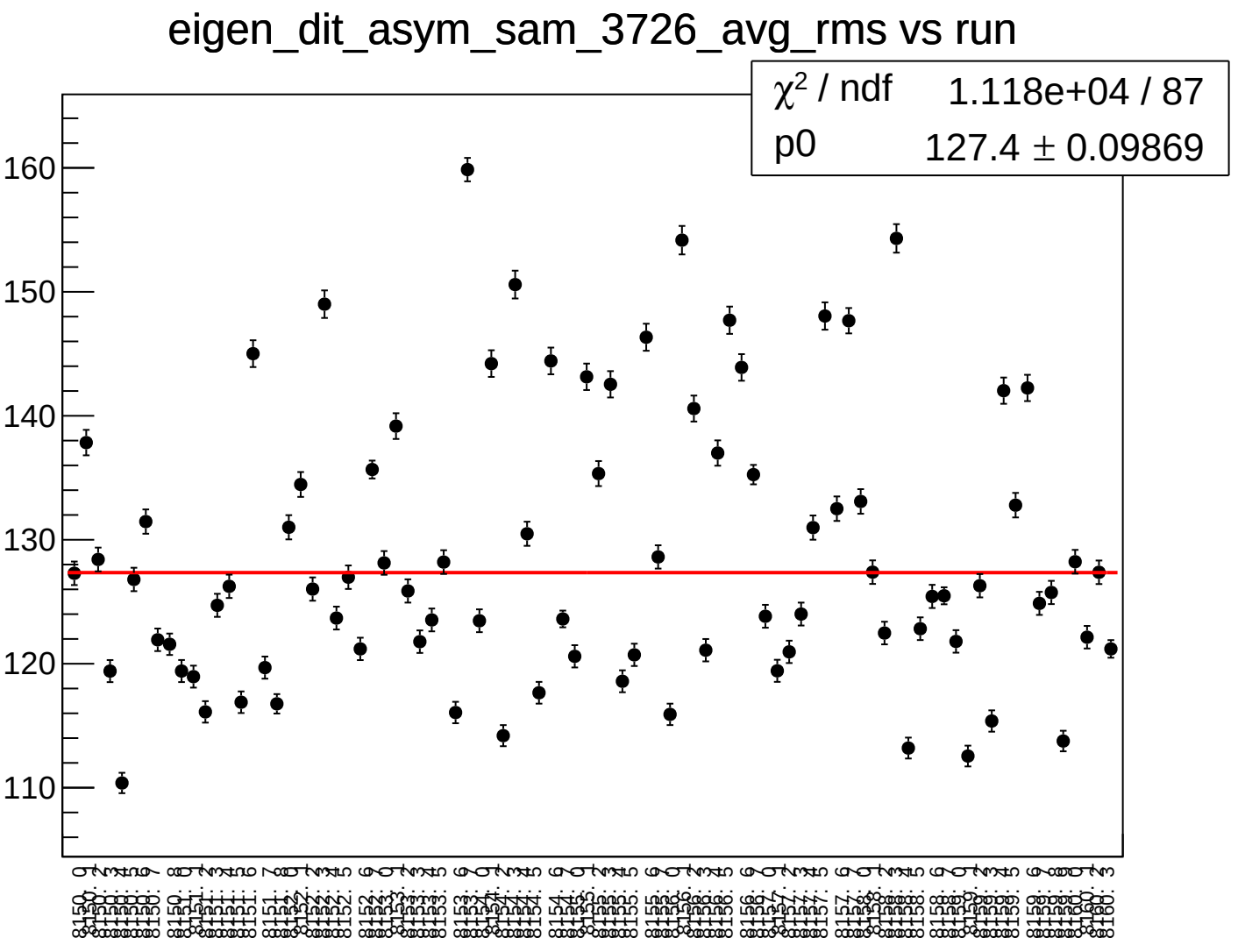

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.118e+04 / 87
p0 127.4 ± 0.09869
160
150
140
130
120
110

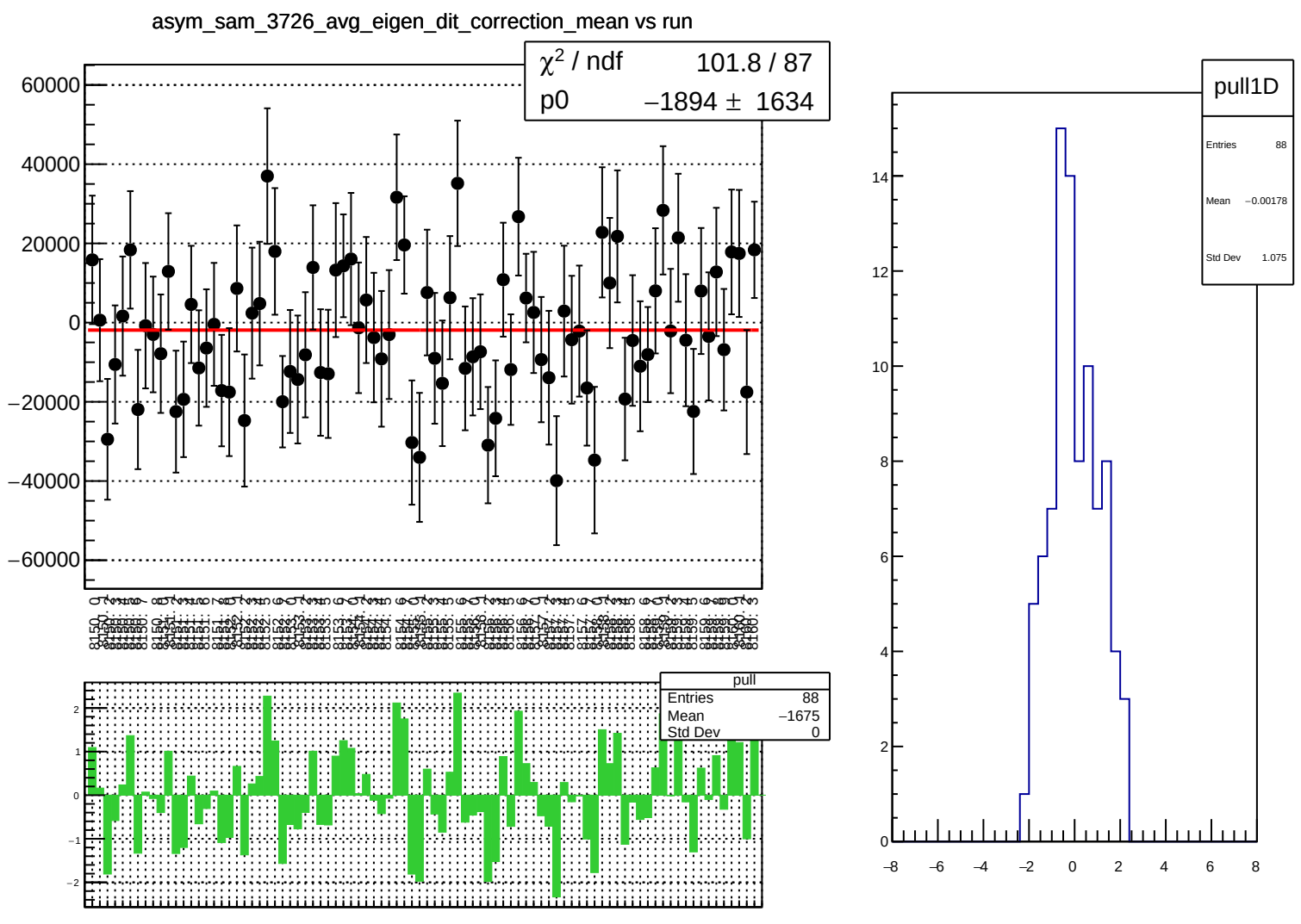

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 101.8 / 87
p0 −1894 ± 1634
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1675
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00178
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

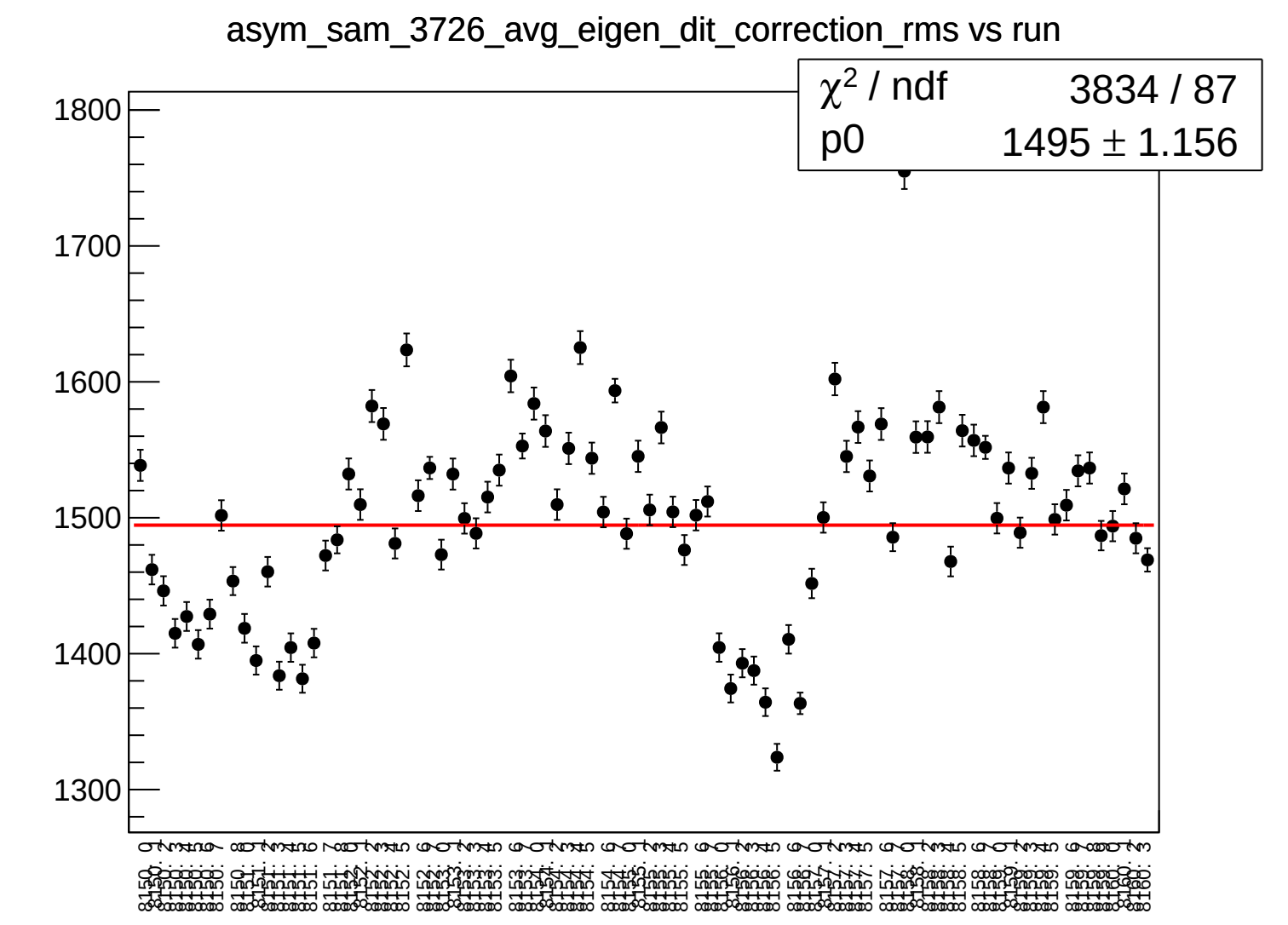

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 3834 / 87
p0 1495 ± 1.156
1800
1700
1600
1500
1400
1300

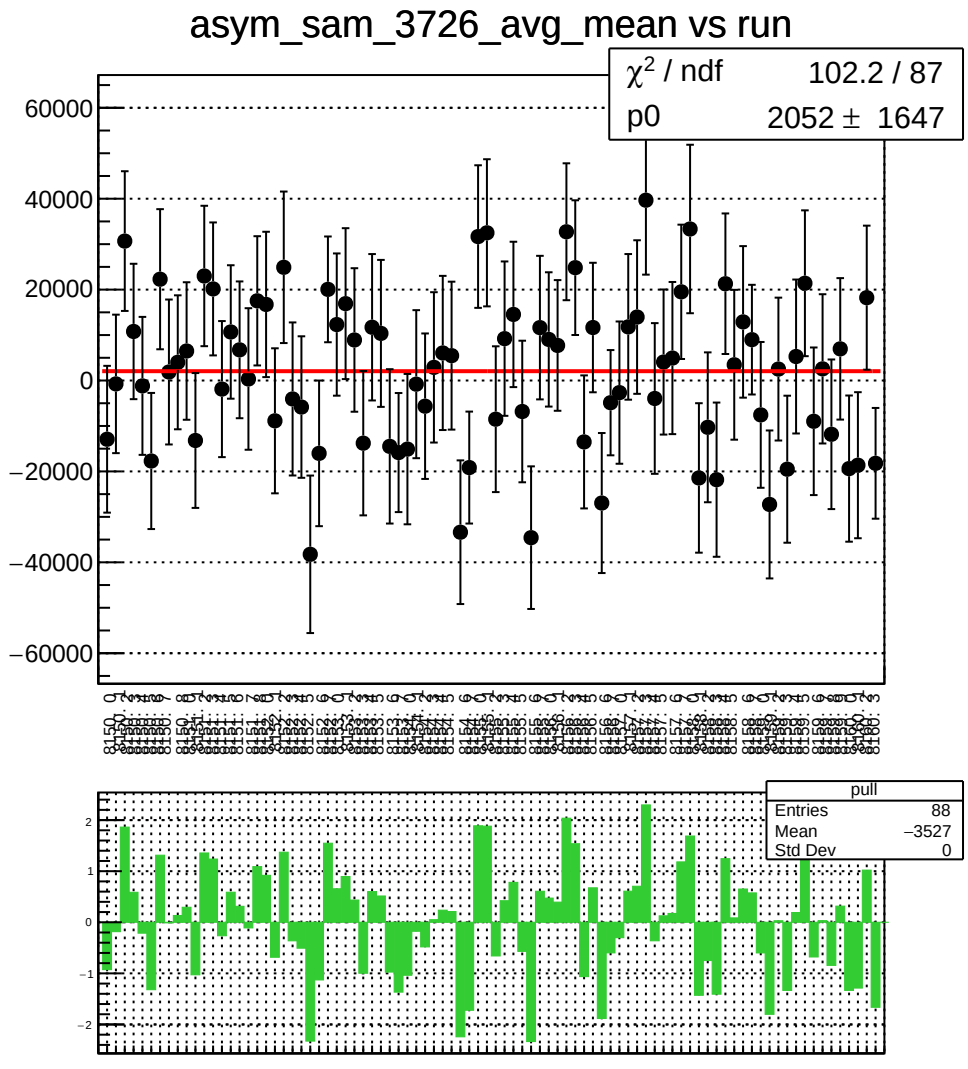

eigen_dit_asym_sam_3726_avg_mean vs run
χ^2 / ndf 79.99 / 87
p0 186.6 ± 139.6
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 41.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

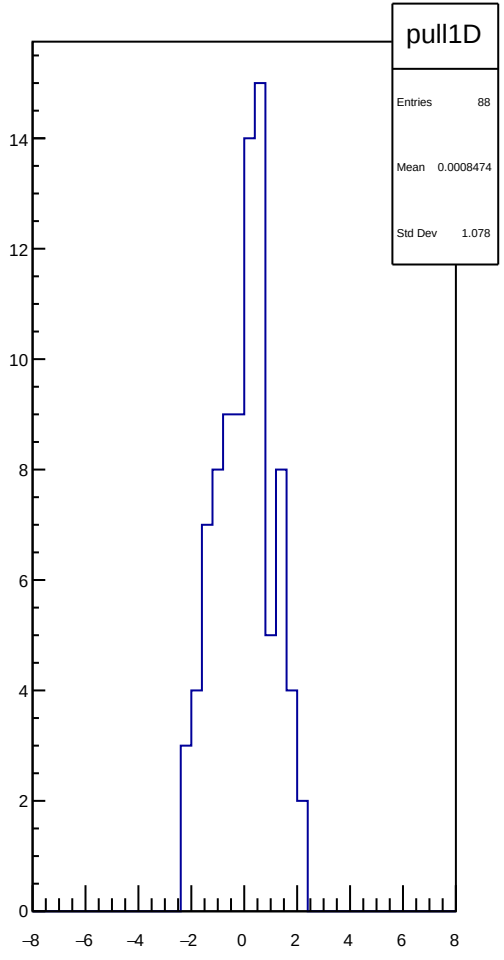

pull1D
Entries 88
Mean −0.02172
Std Dev 0.9532
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

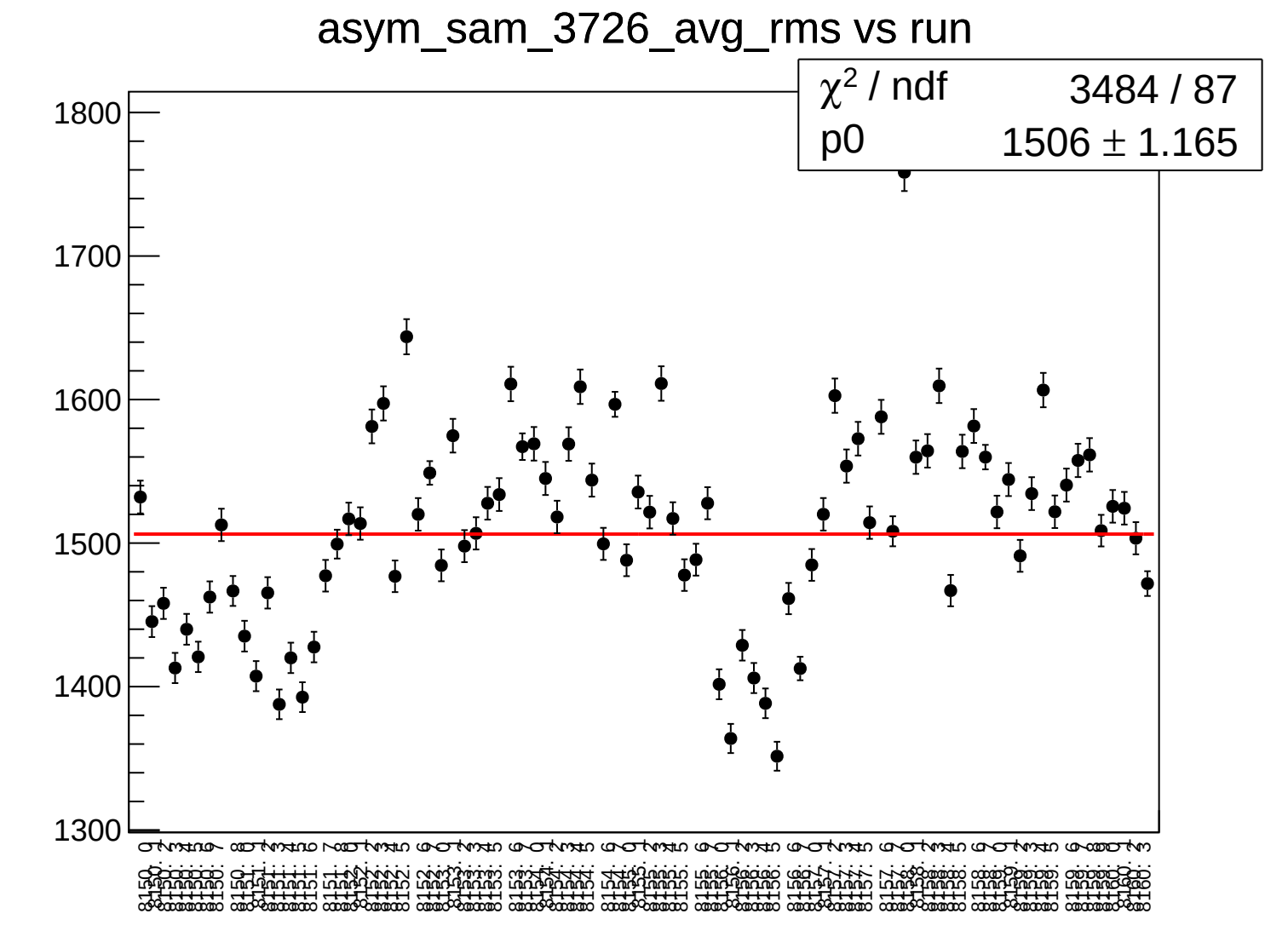

eigen_dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.118e+04 / 87
p0 127.4 ± 0.09869
160
150
140
130
120
110

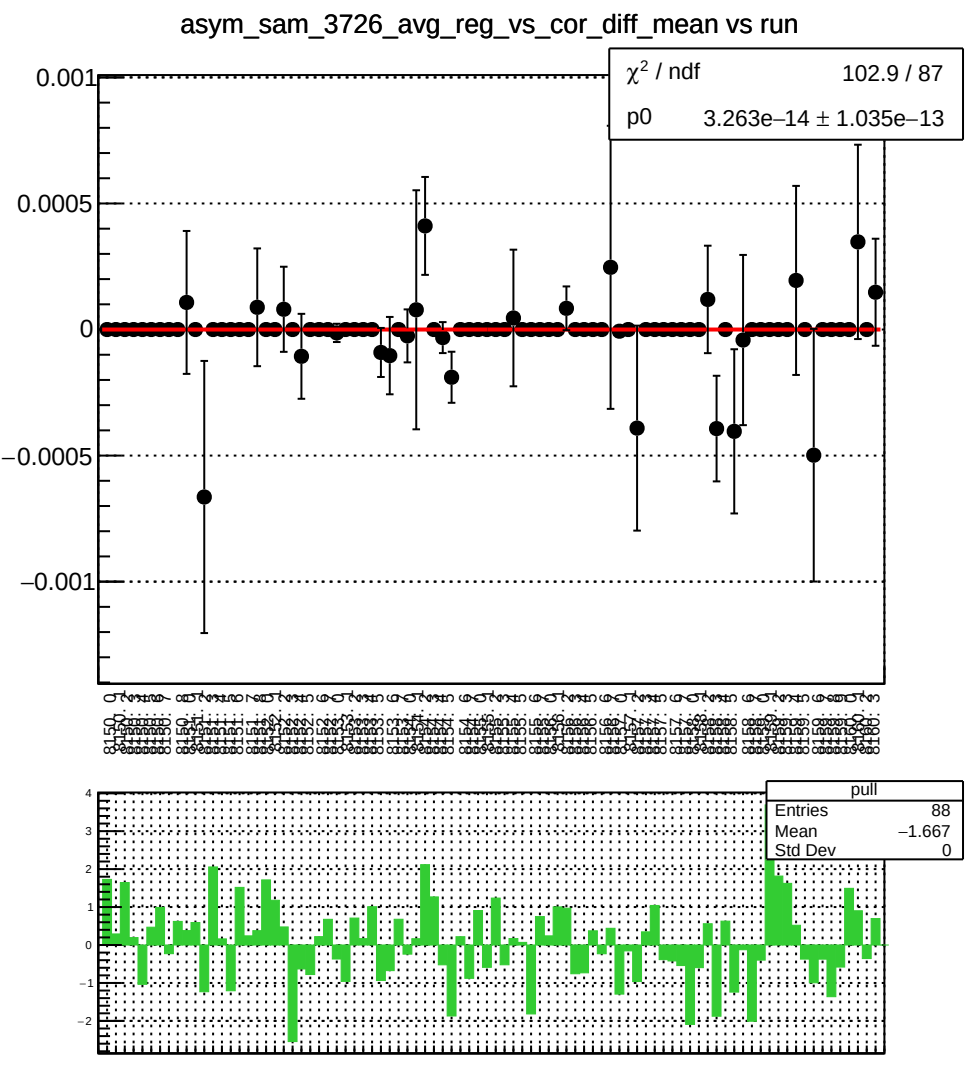

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 101.8 / 87
p0 −1894 ± 1634
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1675
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00178
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

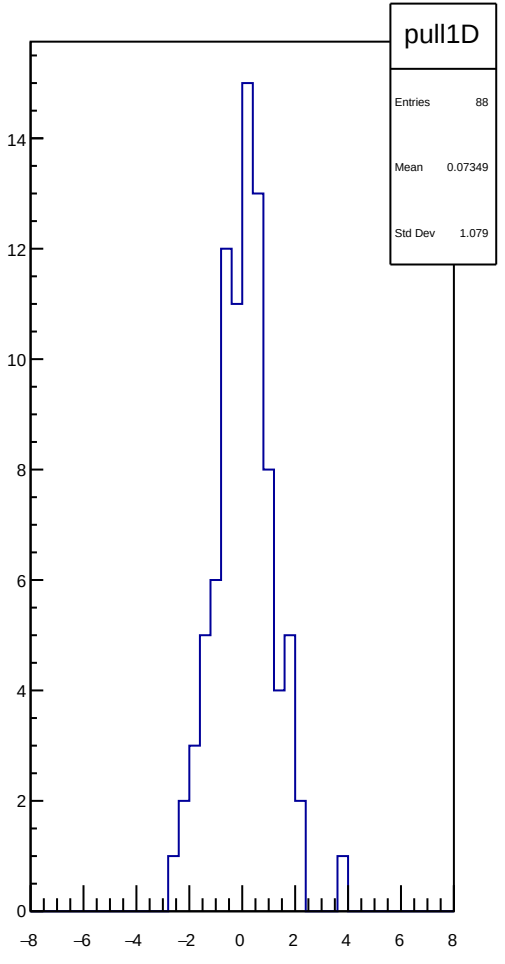

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 3834 / 87
p0 1495 ± 1.156
1800
1700
1600
1500
1400
1300

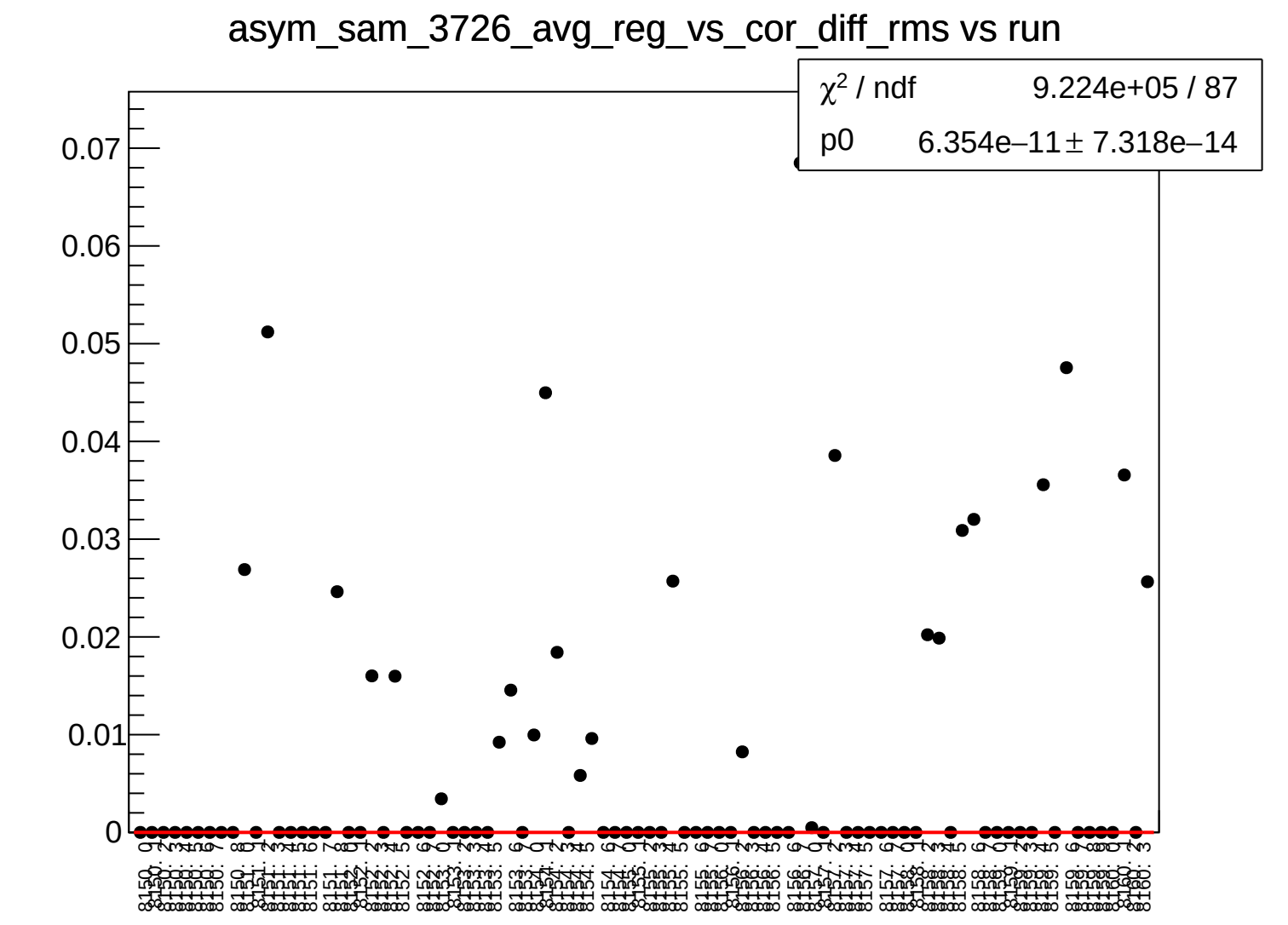

asym_sam_3726_avg_mean vs run
χ² / ndf 102.2 / 87
p0 2052 ± 1647
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −3527
Std Dev 0
2
1
0
−1
−2

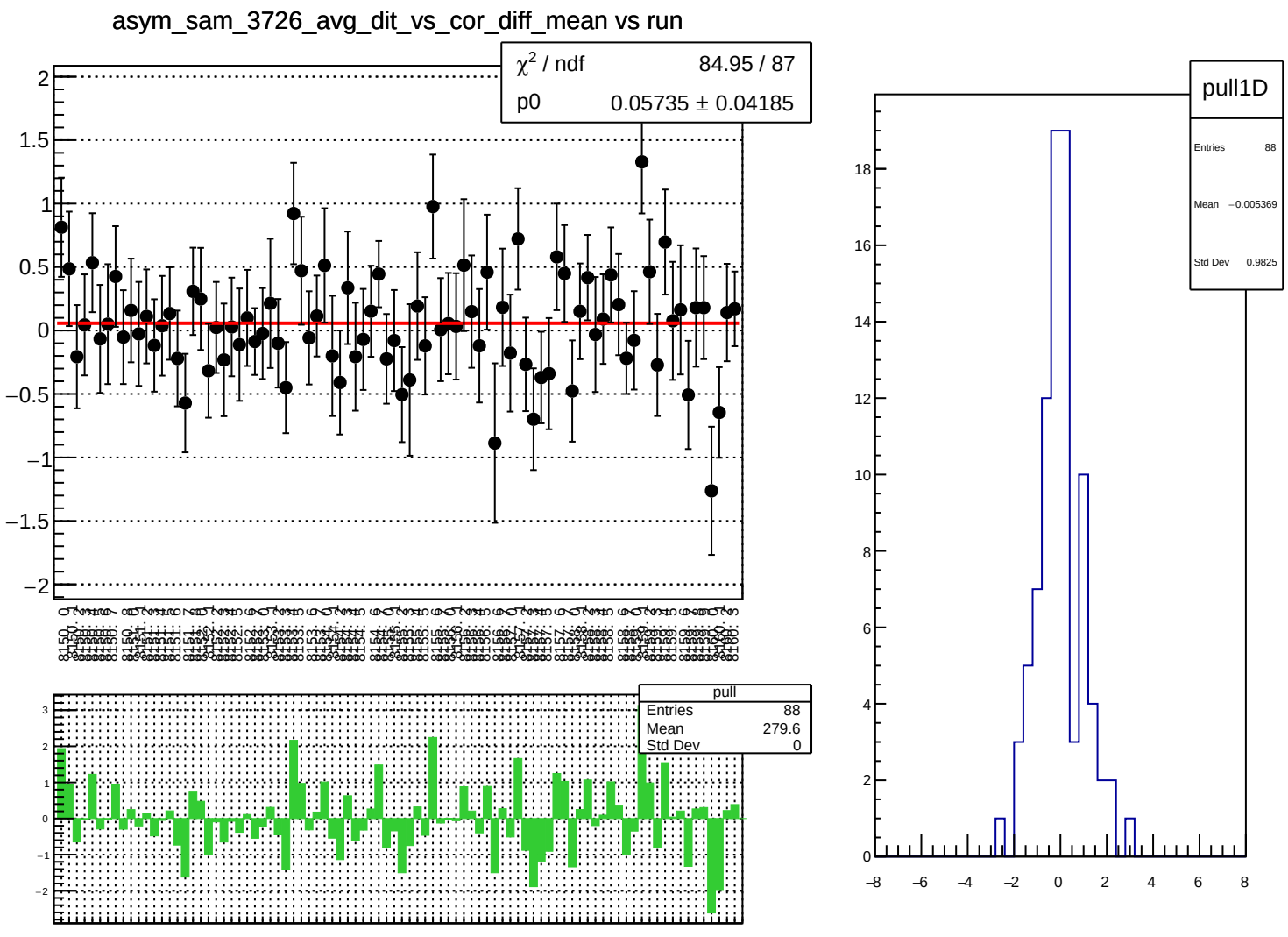

pull1D
Entries 88
Mean 0.0008474
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

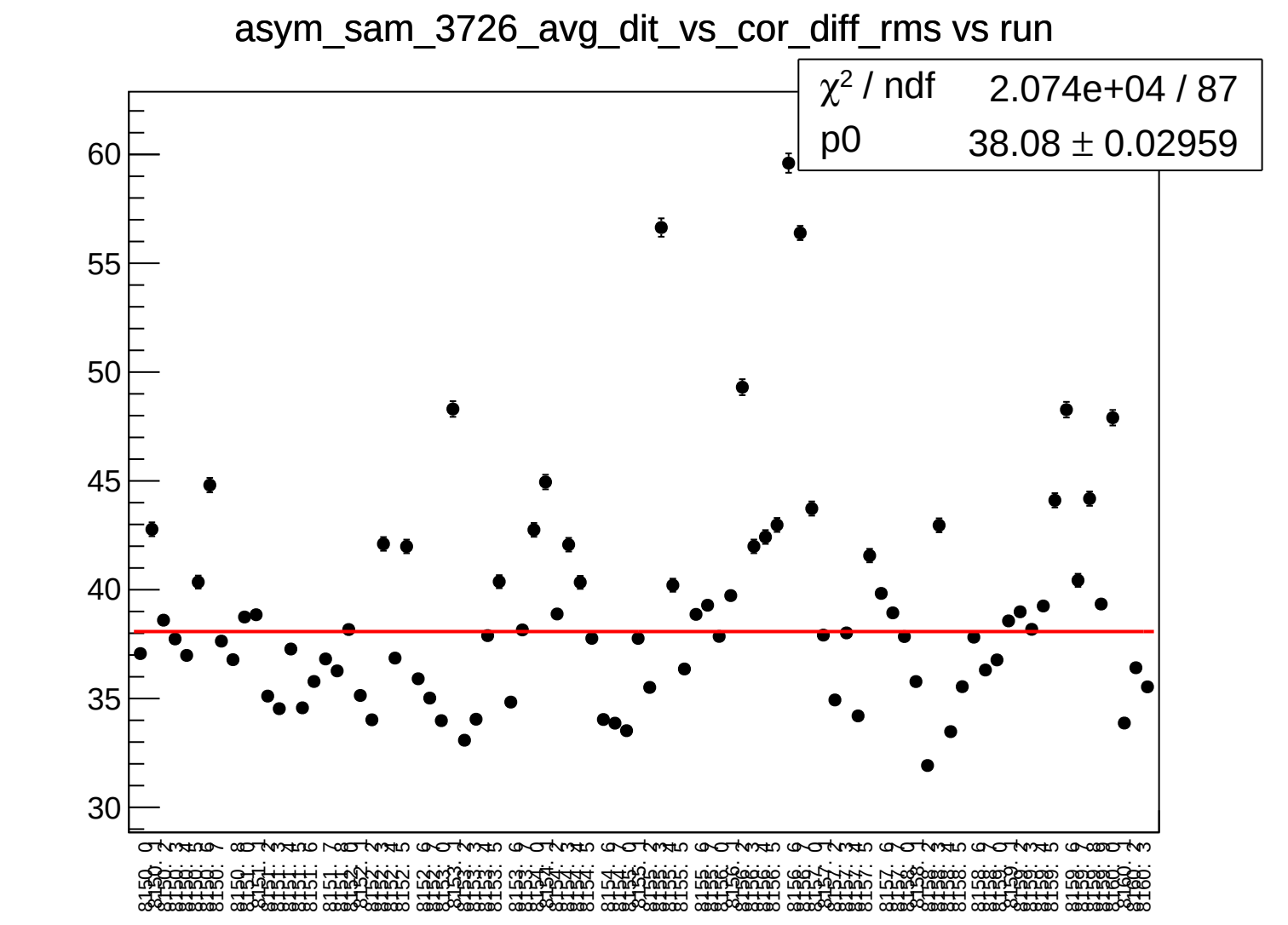

asym_sam_3726_avg_rms vs run
χ² / ndf 3484 / 87
p0 1506 ± 1.165
1800
1700
1600
1500
1400
1300

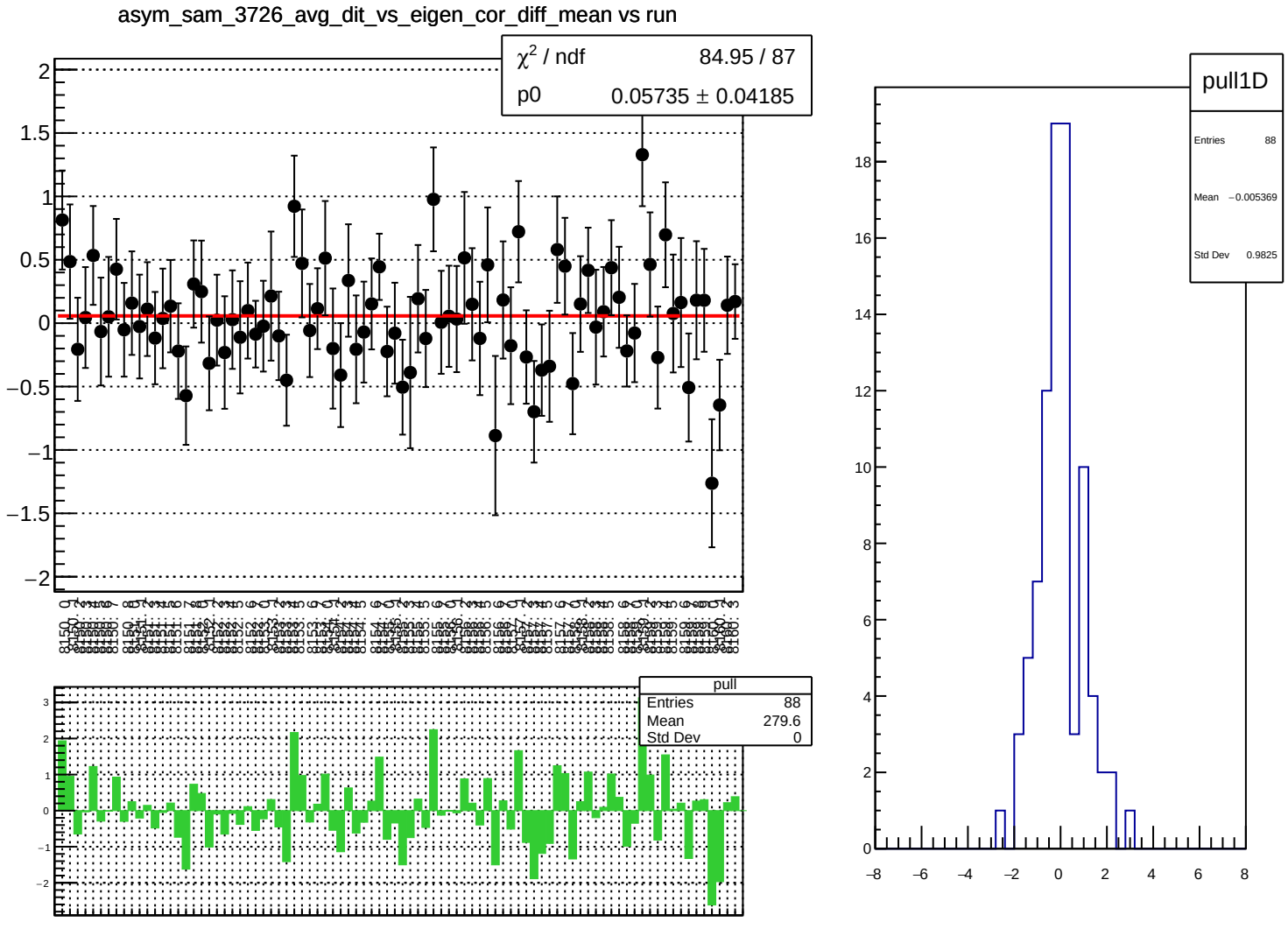

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.9 / 87
p0 3.263e−14 ± 1.035e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean −1.667
Std Dev 0
4
3
2
1
0
−1
−2

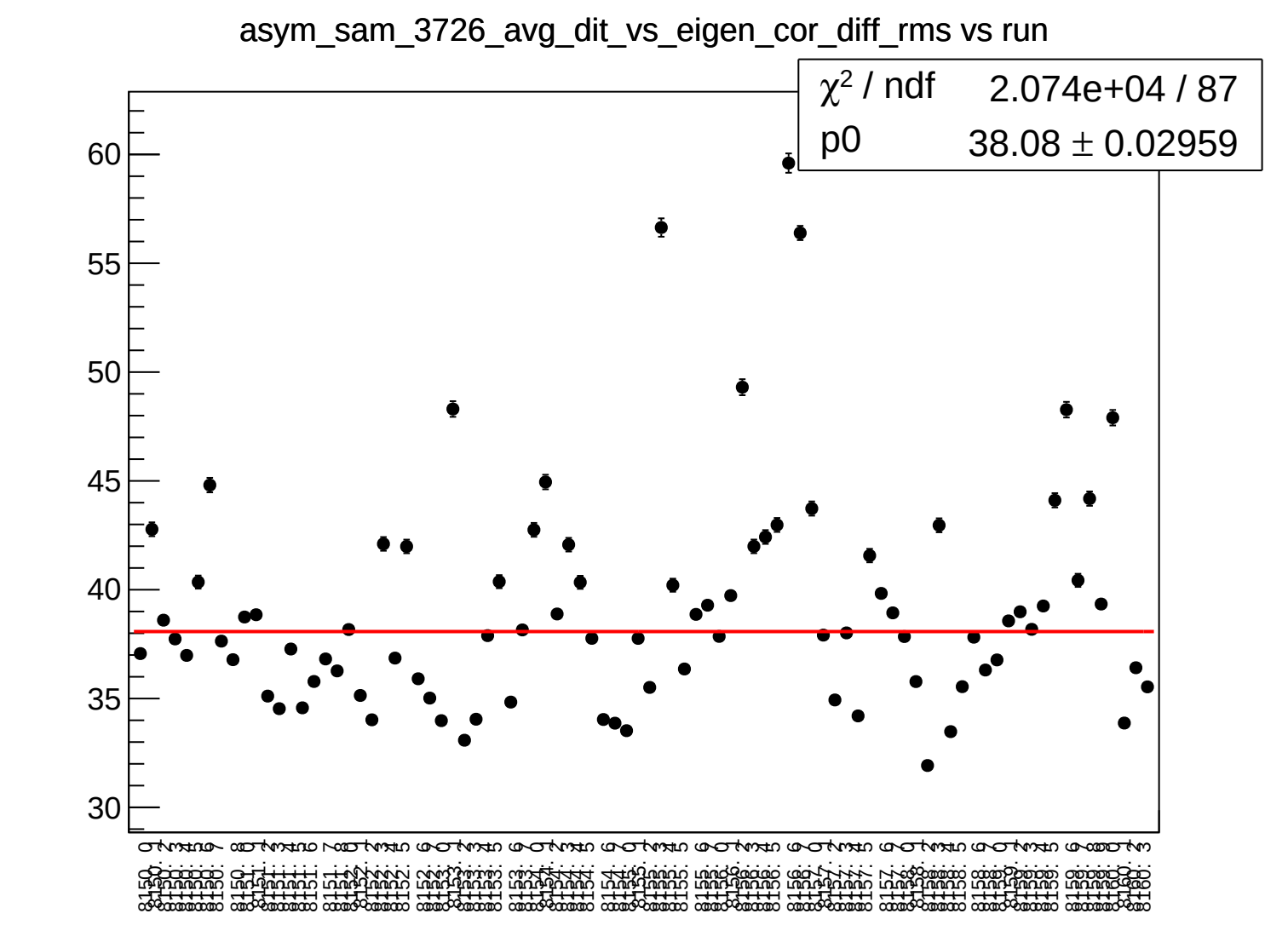

pull1D
Entries 88
Mean 0.07349
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

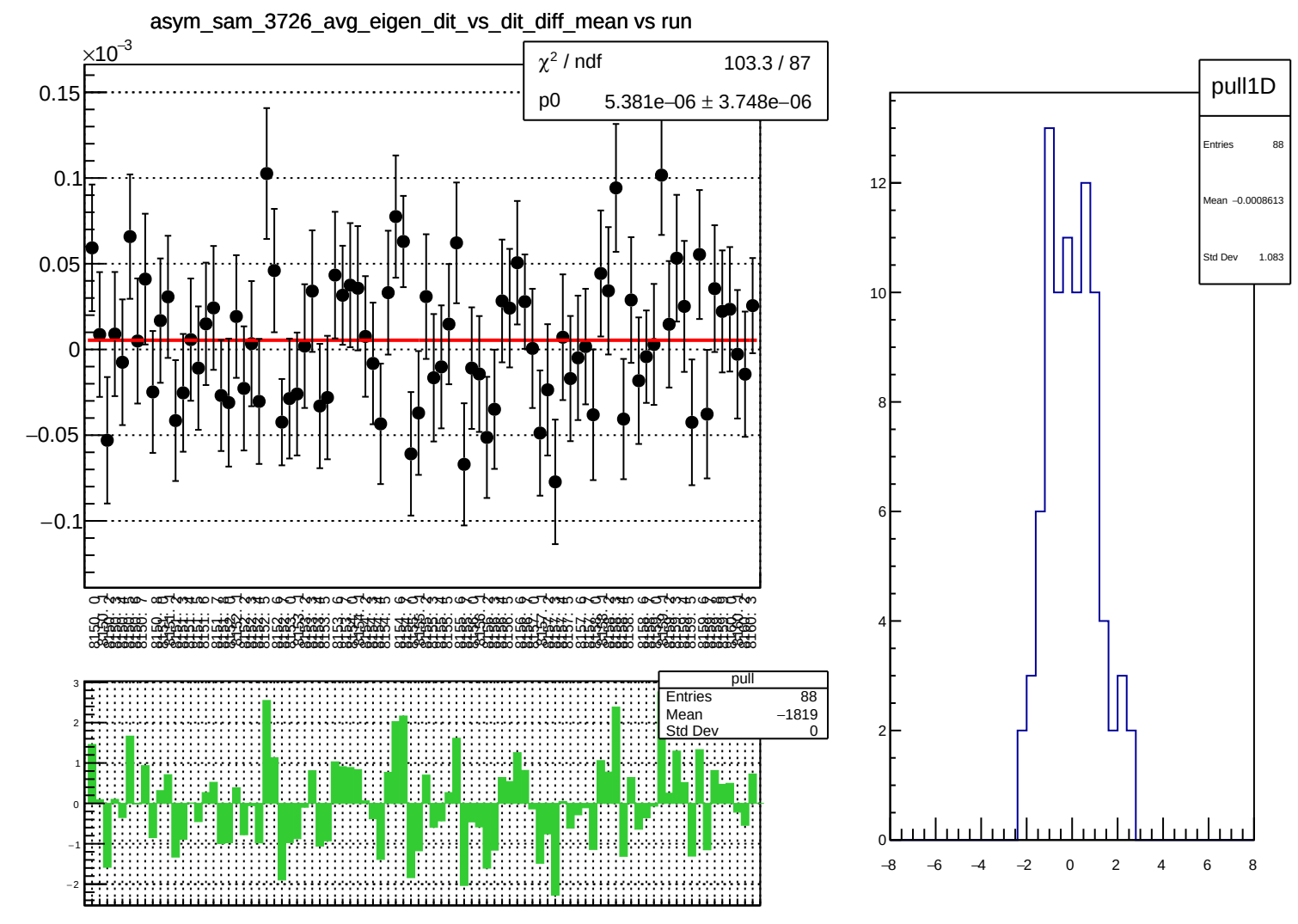

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.224e+05 / 87
p0 6.354e−11 ± 7.318e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

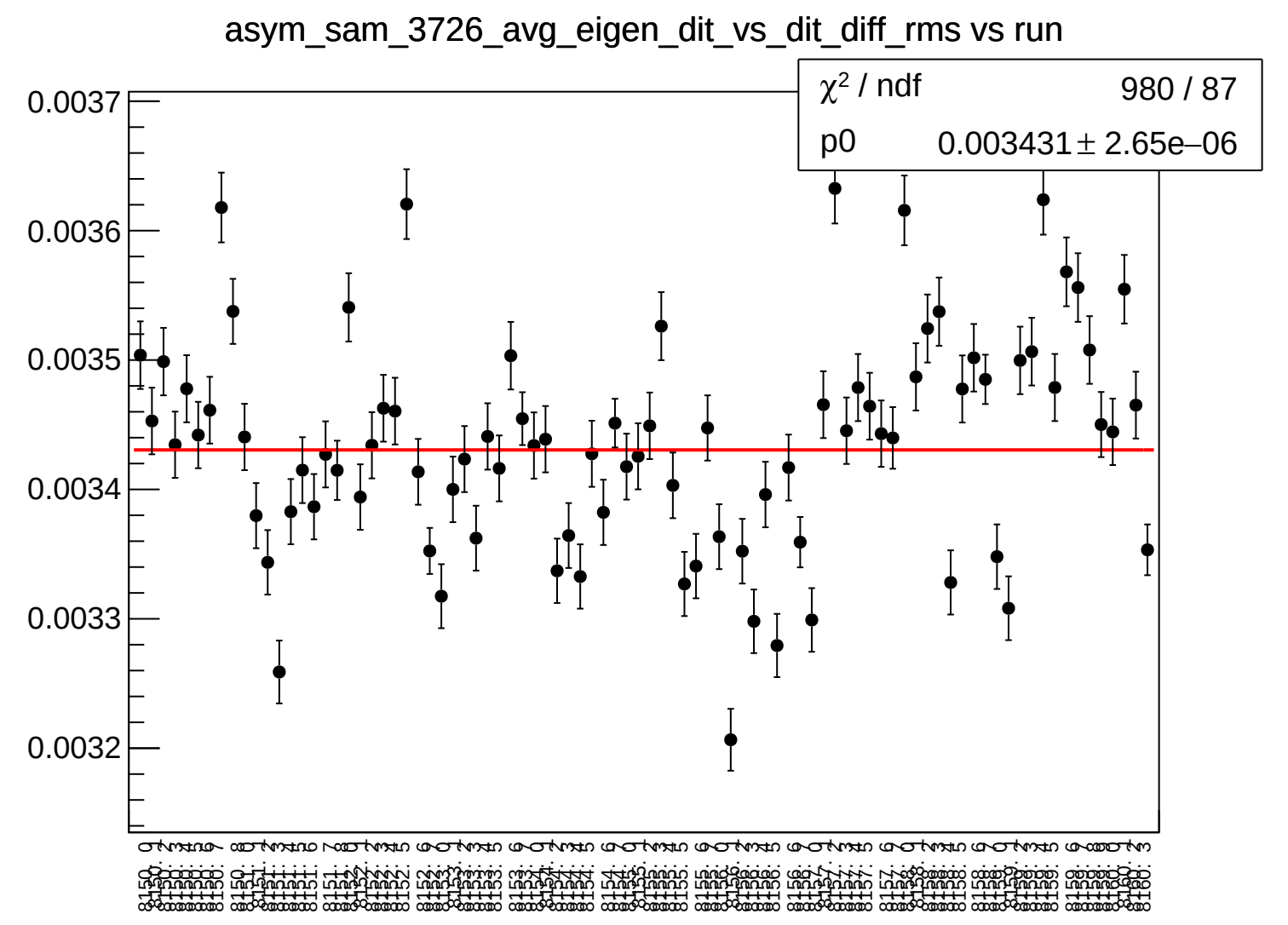

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.95 / 87
p0 0.05735 ± 0.04185
pull
Entries 88
Mean 279.6
Std Dev 0
pull1D
Entries 88
Mean −0.005369
Std Dev 0.9825

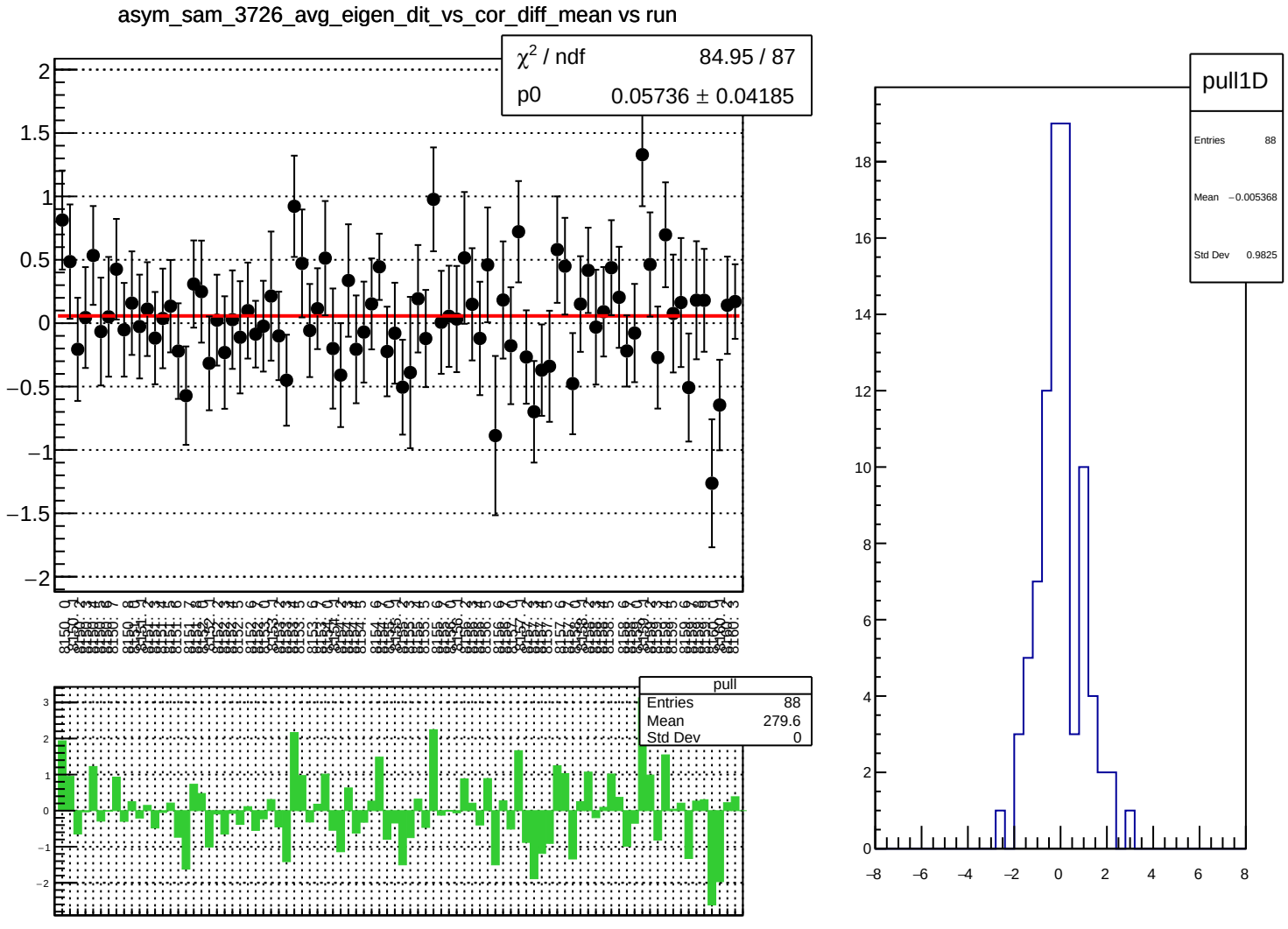

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.074e+04 / 87
p0 38.08 ± 0.02959
60
55
50
45
40
35
30

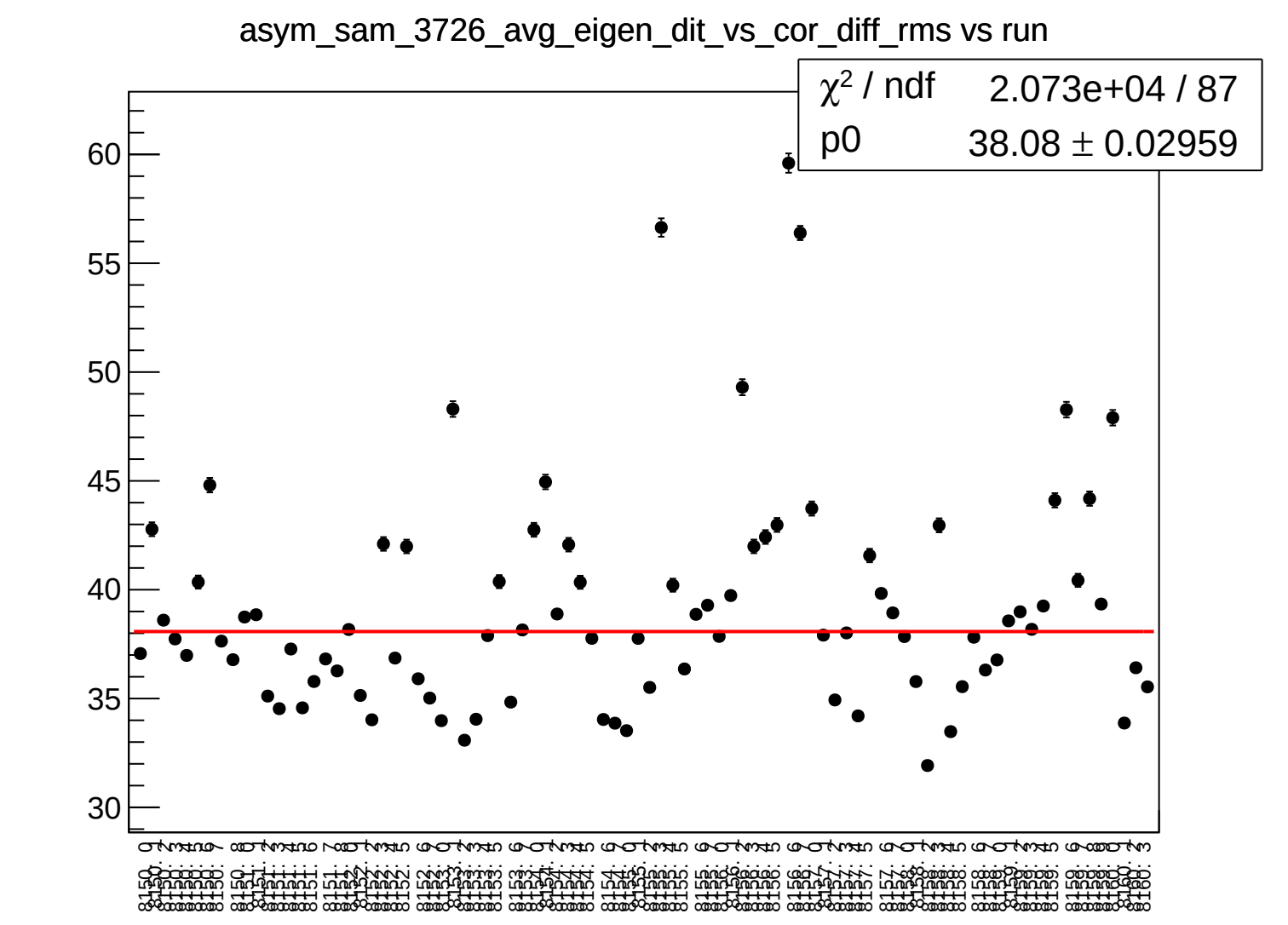

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.95 / 87
p0 0.05735 ± 0.04185
pull
Entries 88
Mean 279.6
Std Dev 0
pull1D
Entries 88
Mean −0.005369
Std Dev 0.9825

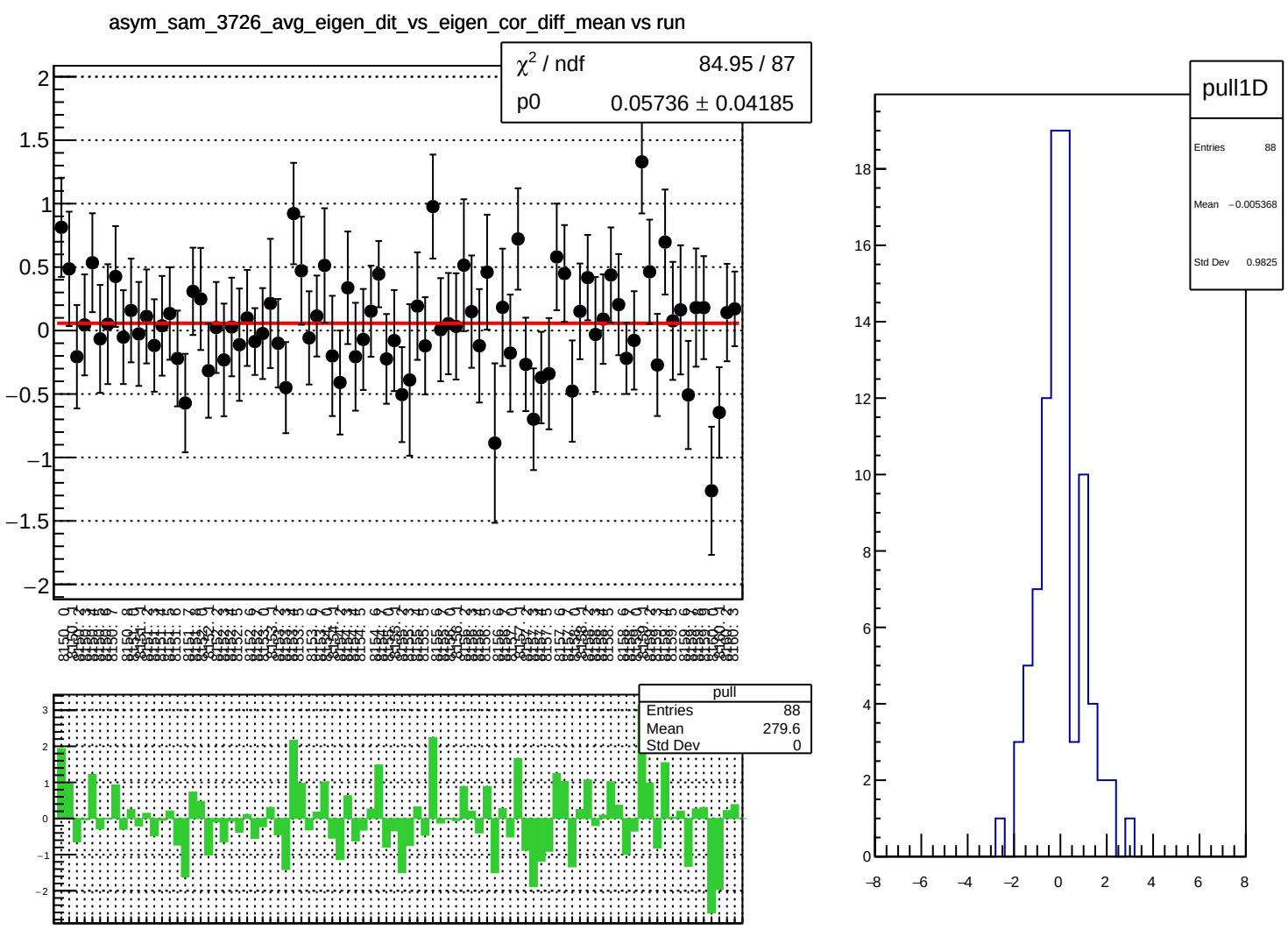

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.074e+04 / 87
p0 38.08 ± 0.02959
60
55
50
45
40
35
30

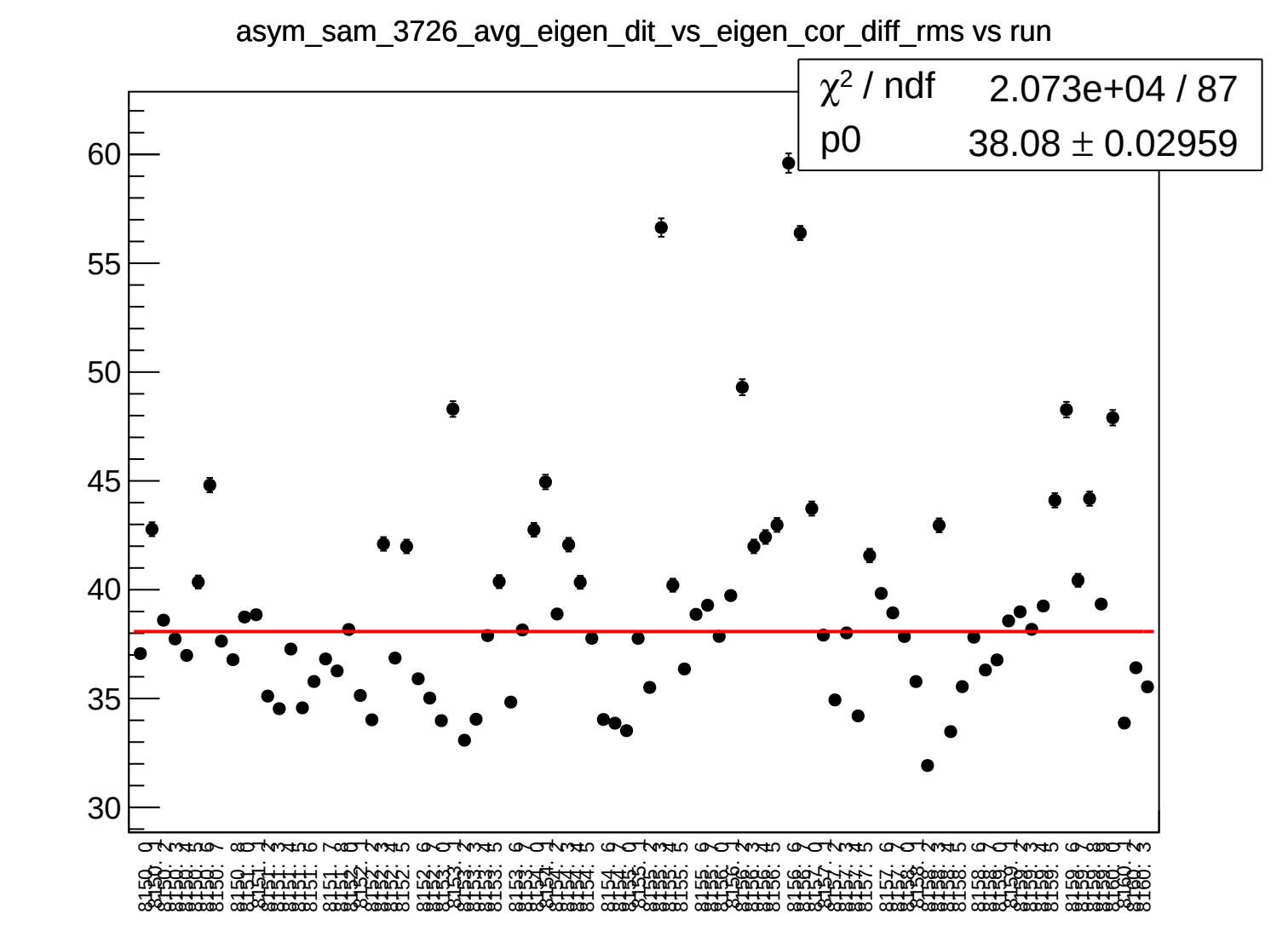

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 103.3 / 87
p0 5.381e−06 ± 3.748e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −1819
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0008613
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

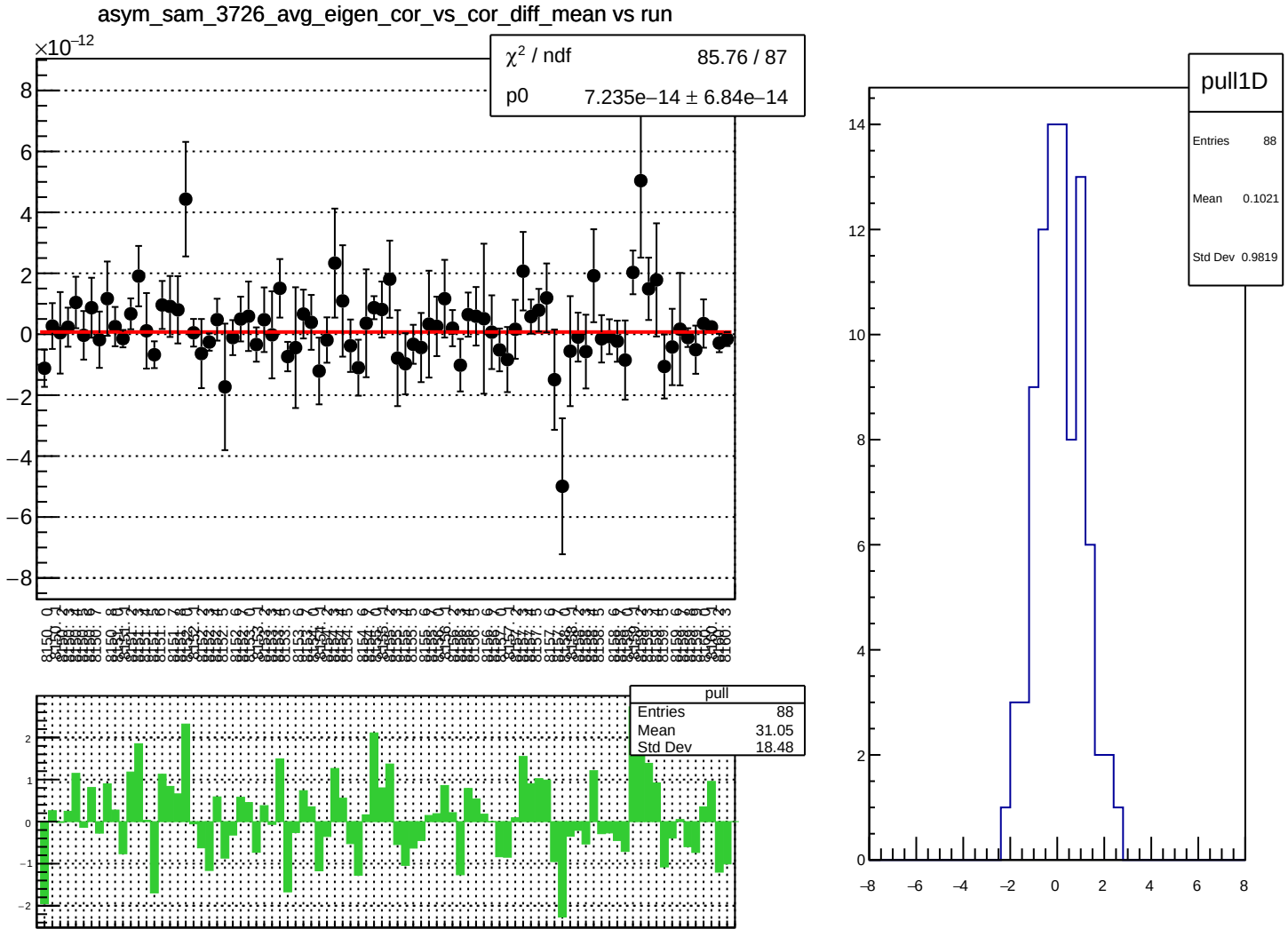

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 980 / 87
p0 0.003431 ± 2.65e−06
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032

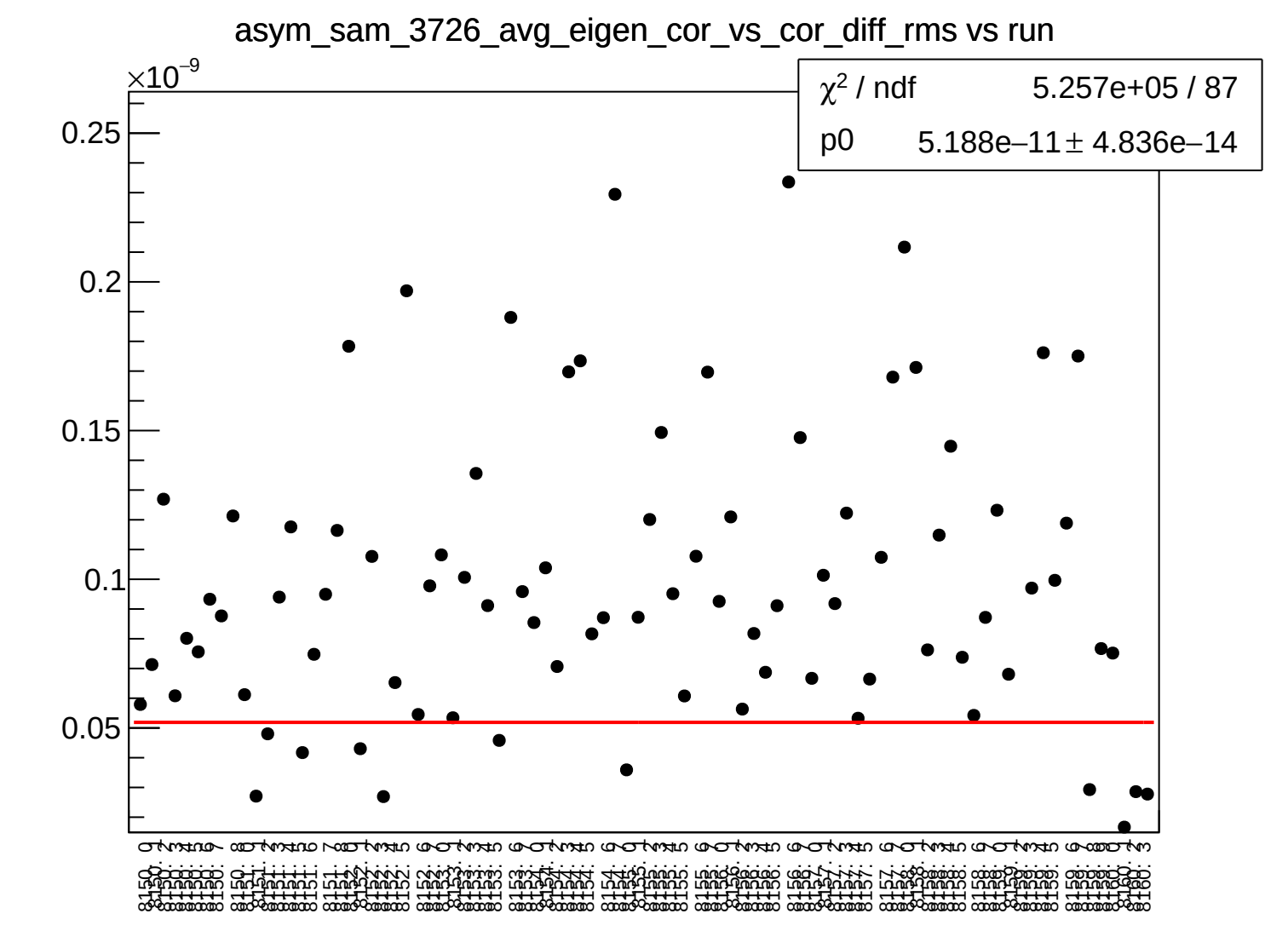

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.95 / 87
p0 0.05736 ± 0.04185
pull
Entries 88
Mean 279.6
Std Dev 0
pull1D
Entries 88
Mean −0.005368
Std Dev 0.9825

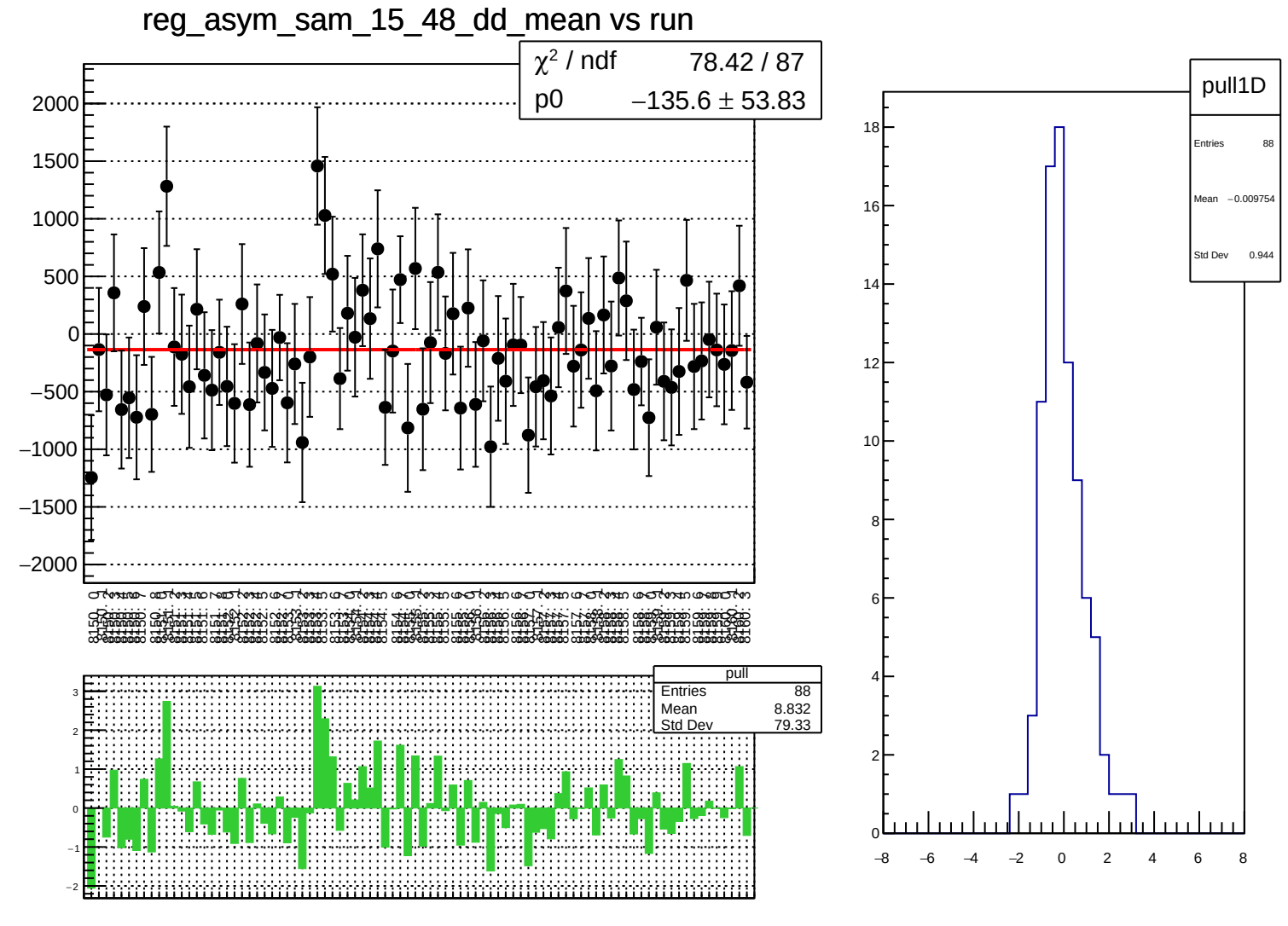

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.073e+04 / 87
p0 38.08 ± 0.02959
60
55
50
45
40
35
30

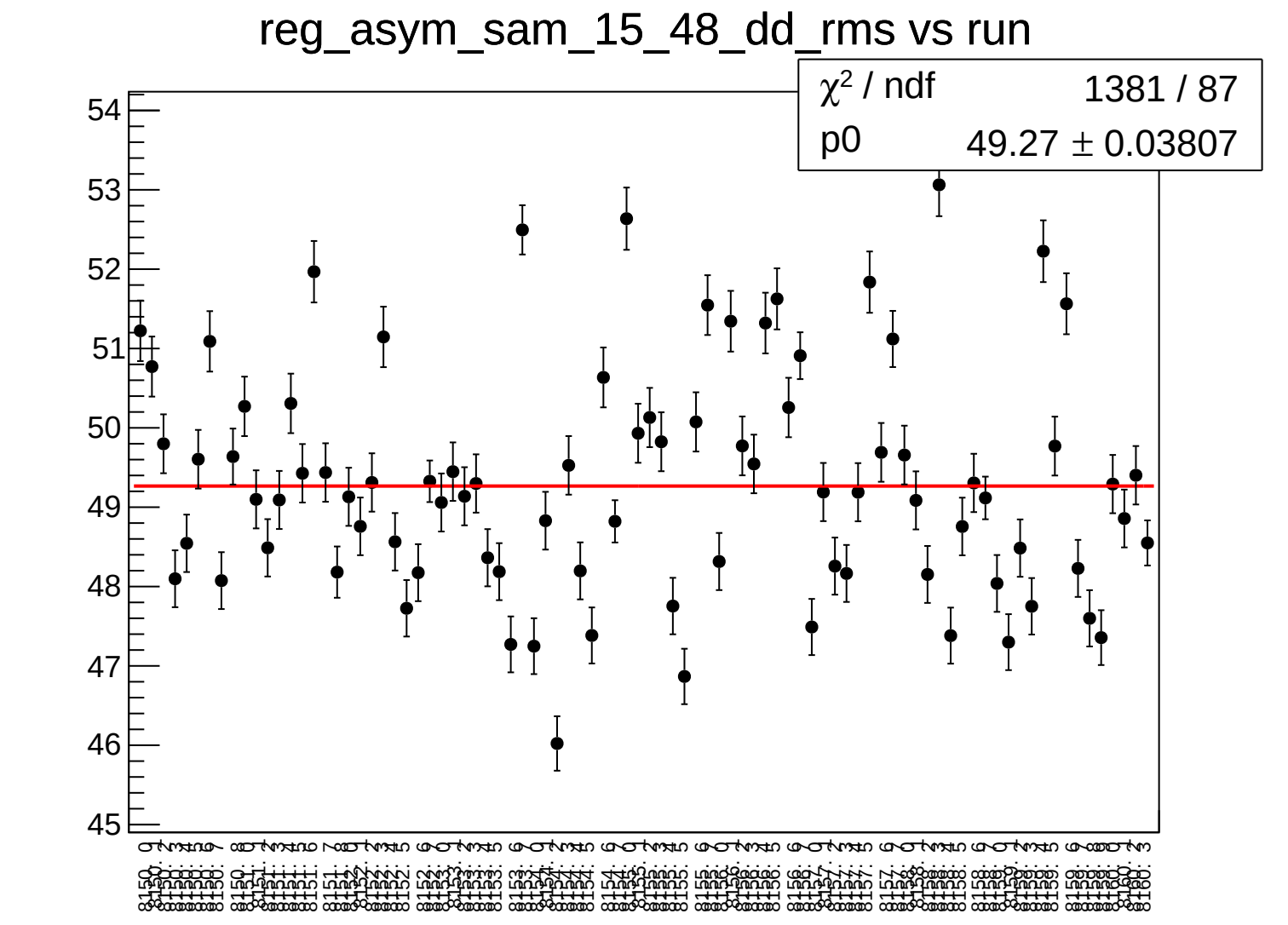

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.95 / 87
p0 0.05736 ± 0.04185
pull
Entries 88
Mean 279.6
Std Dev 0
pull1D
Entries 88
Mean −0.005368
Std Dev 0.9825

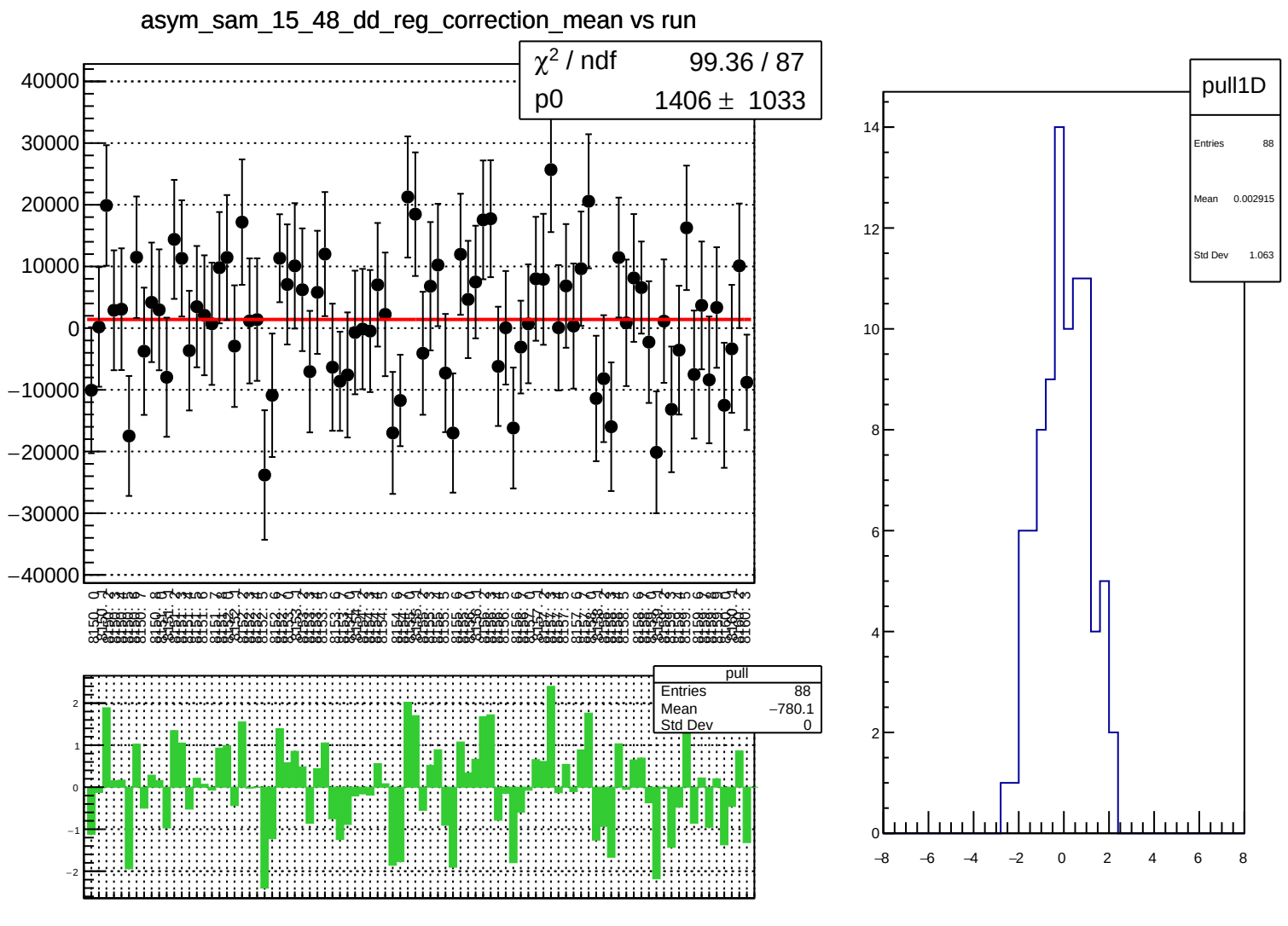

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.073e+04 / 87
p0 38.08 ± 0.02959
60
55
50
45
40
35
30

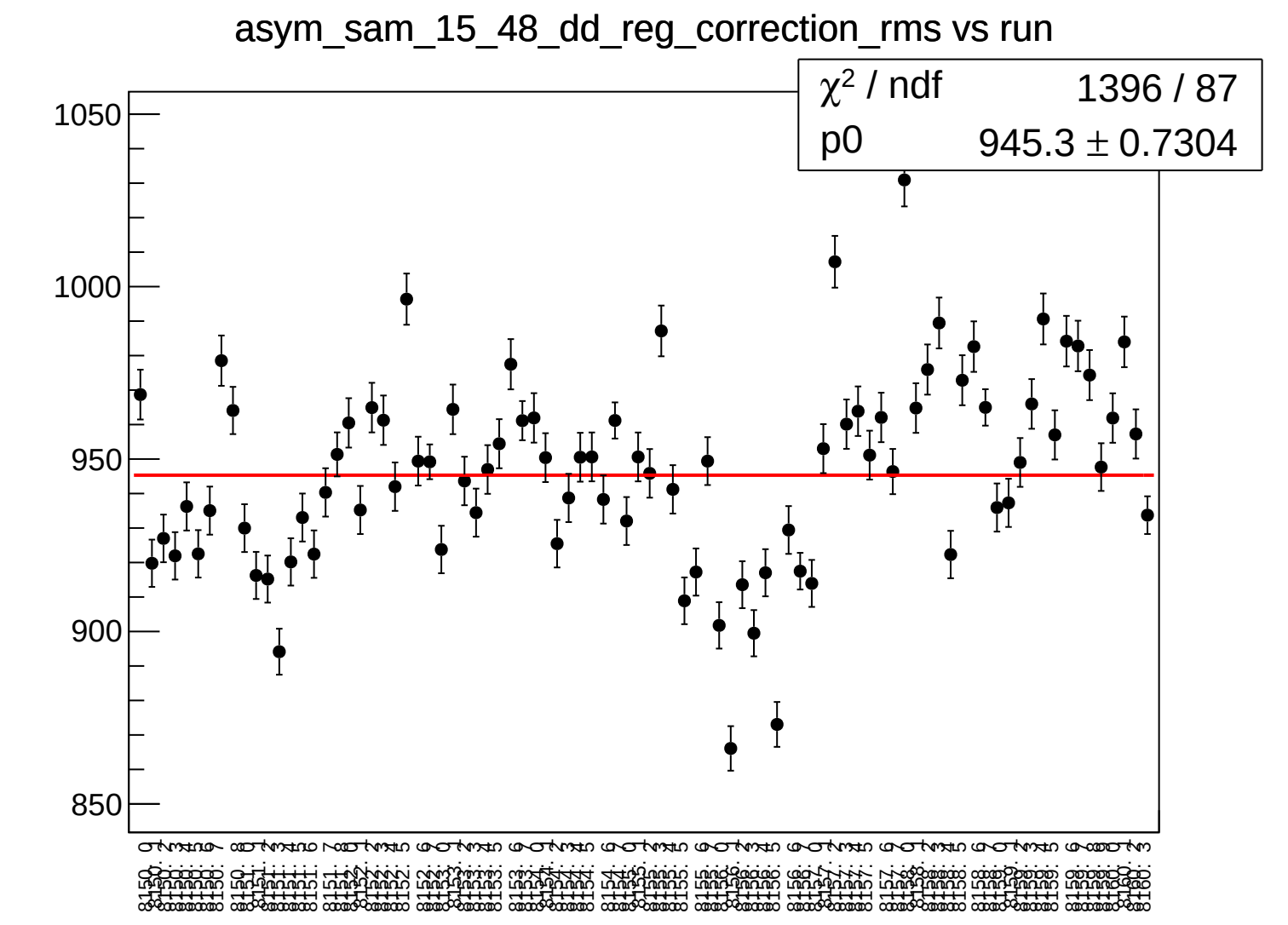

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.76 / 87
p0 7.235e−14 ± 6.84e−14
pull
Entries 88
Mean 31.05
Std Dev 18.48
pull1D
Entries 88
Mean 0.1021
Std Dev 0.9819

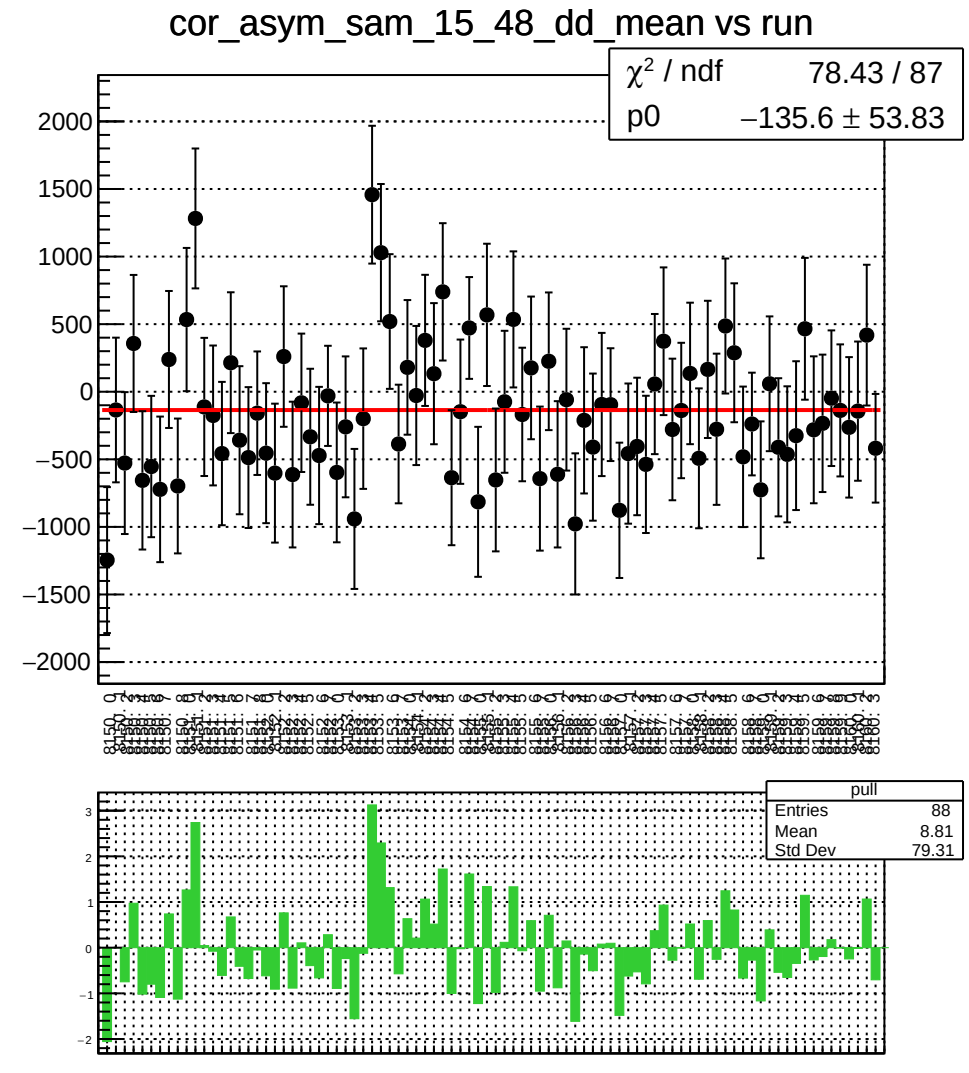

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.257e+05 / 87
p0 5.188e−11 ± 4.836e−14
0.25
0.2
0.15
0.1
0.05

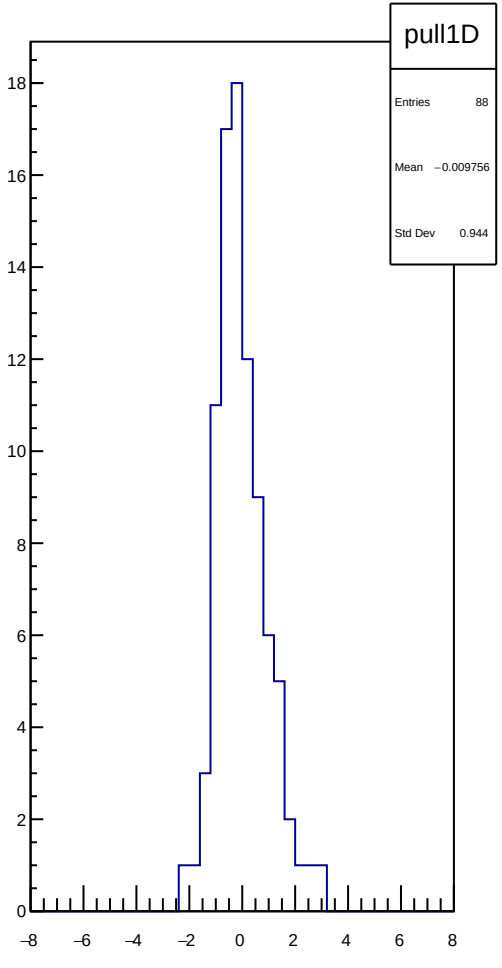

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 78.42 / 87
p0 −135.6 ± 53.83
pull
Entries 88
Mean 8.832
Std Dev 79.33
pull1D
Entries 88
Mean −0.009754
Std Dev 0.944

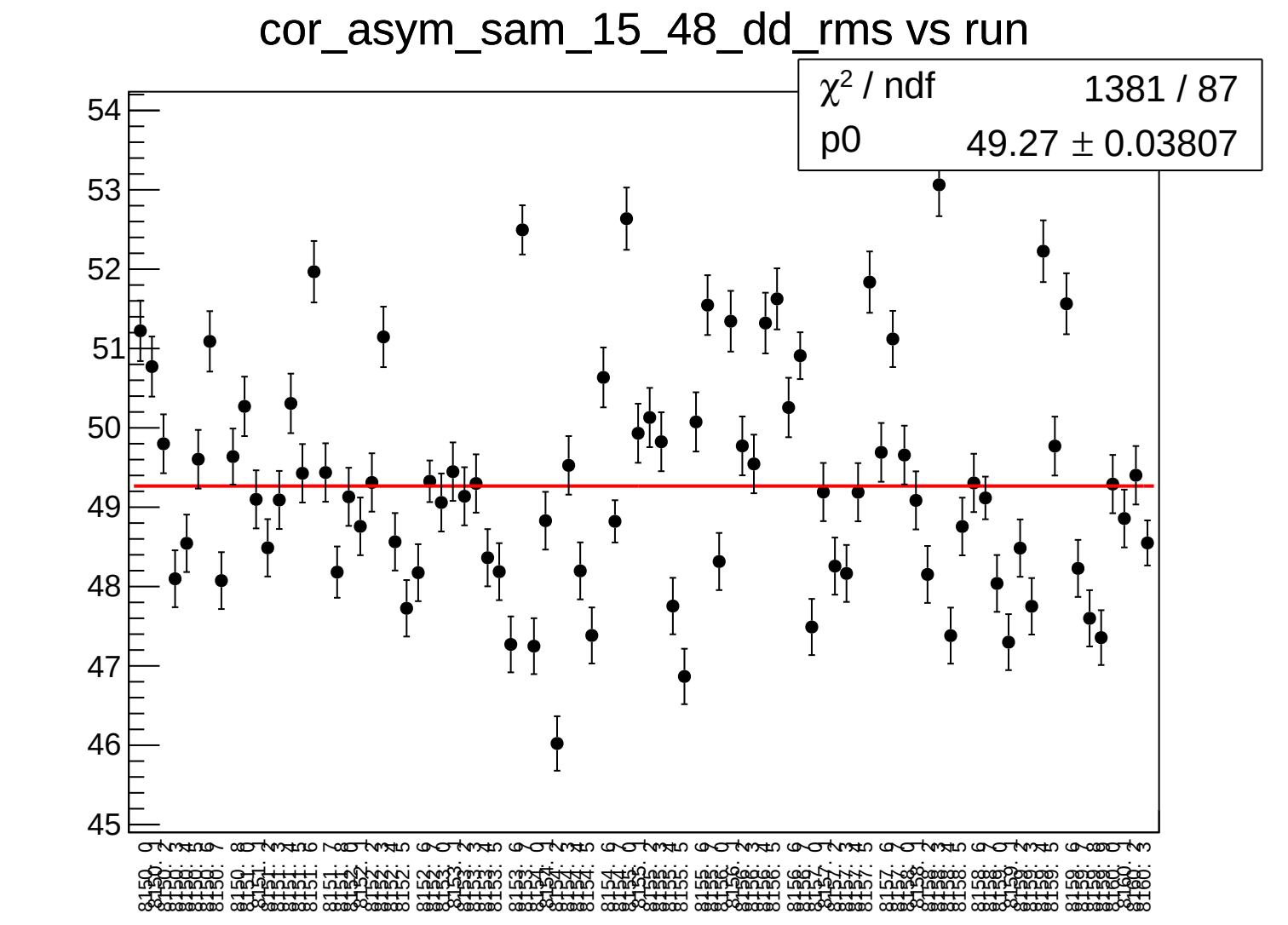

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1381 / 87
p0 49.27 ± 0.03807
54
53
52
51
50
49
48
47
46
45

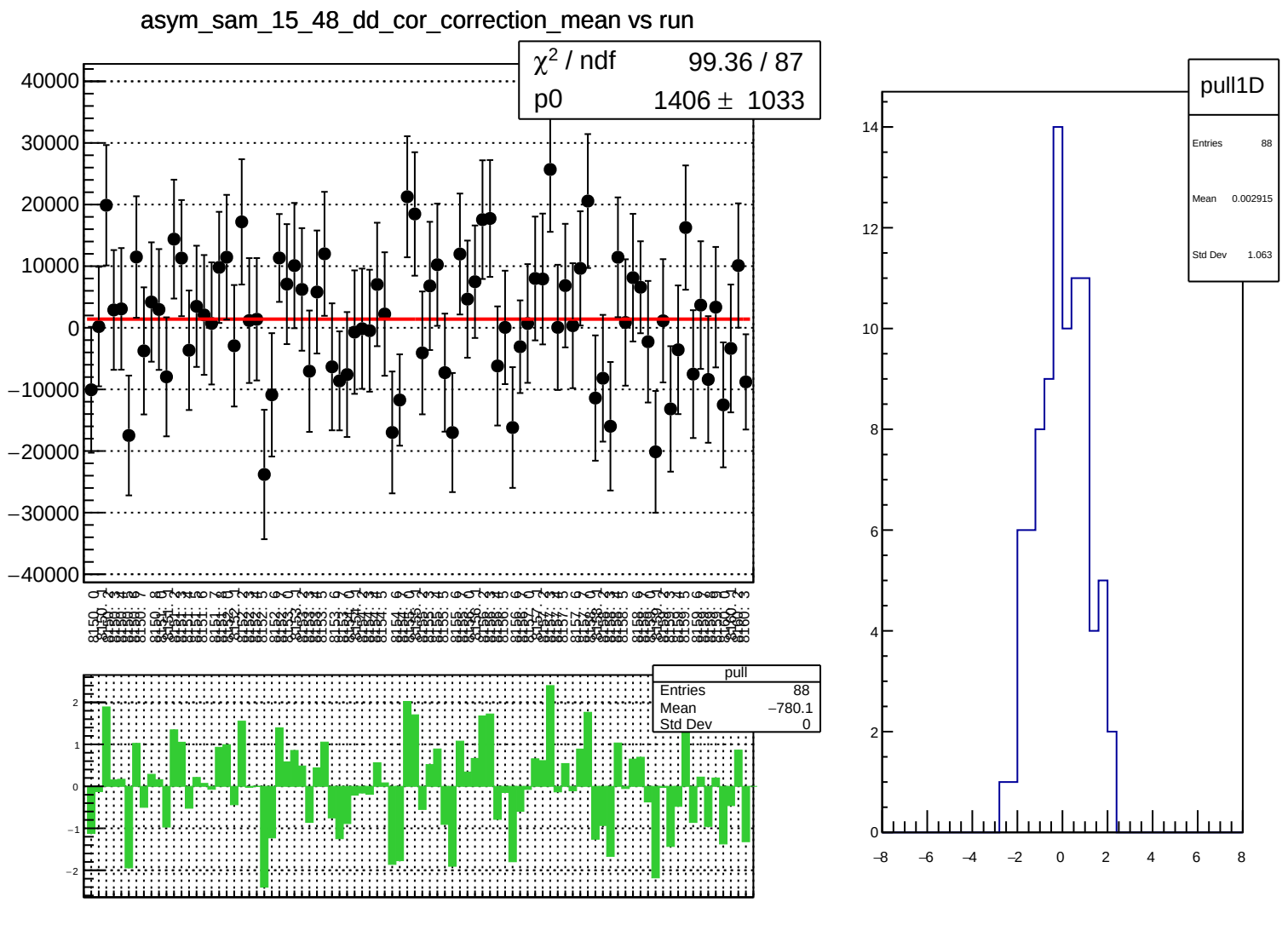

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 99.36 / 87
p0 1406 ± 1033
pull
Entries 88
Mean −780.1
Std Dev 0
pull1D
Entries 88
Mean 0.002915
Std Dev 1.063

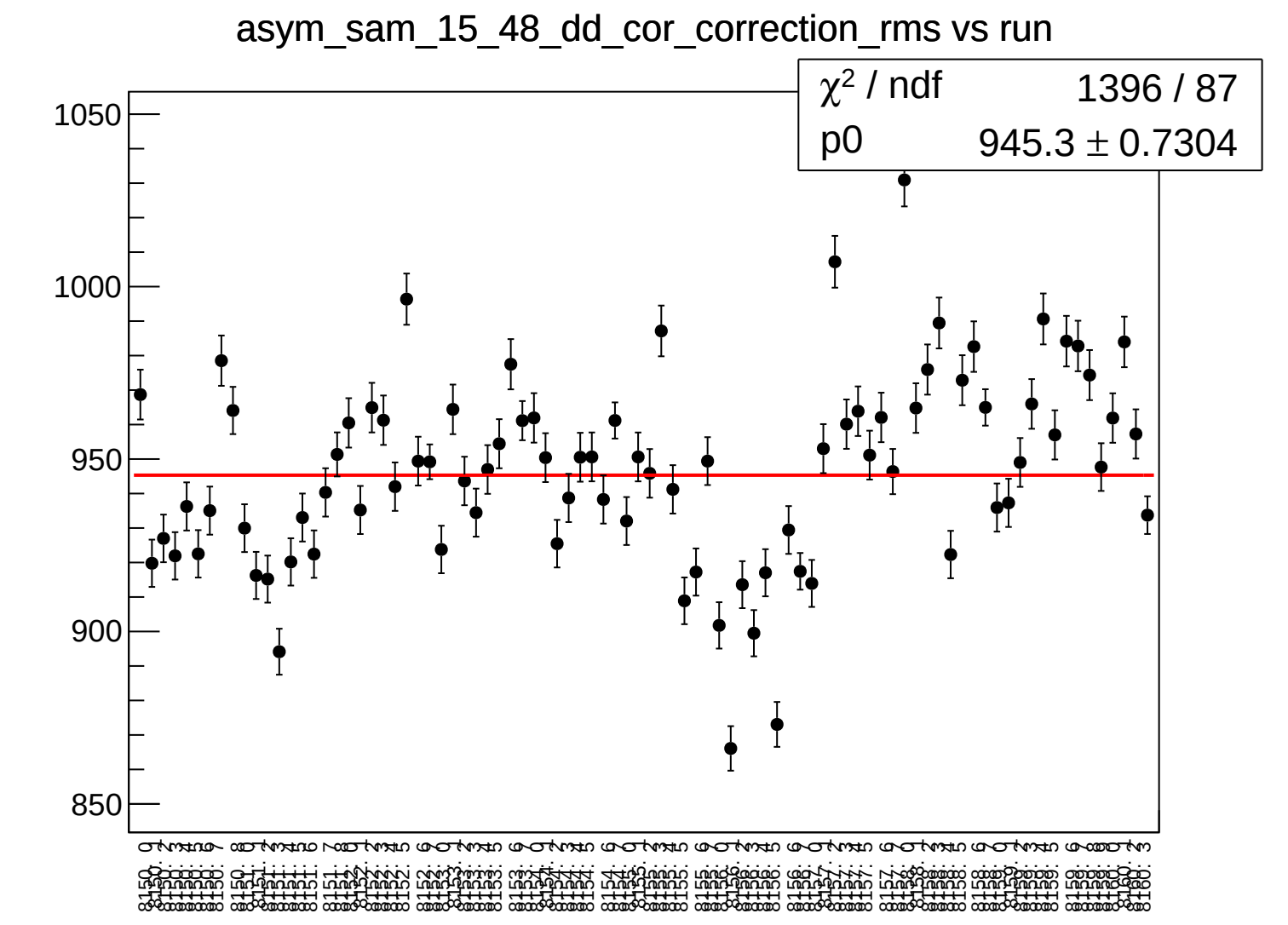

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1396 / 87
p0 945.3 ± 0.7304
1050
1000
950
900
850

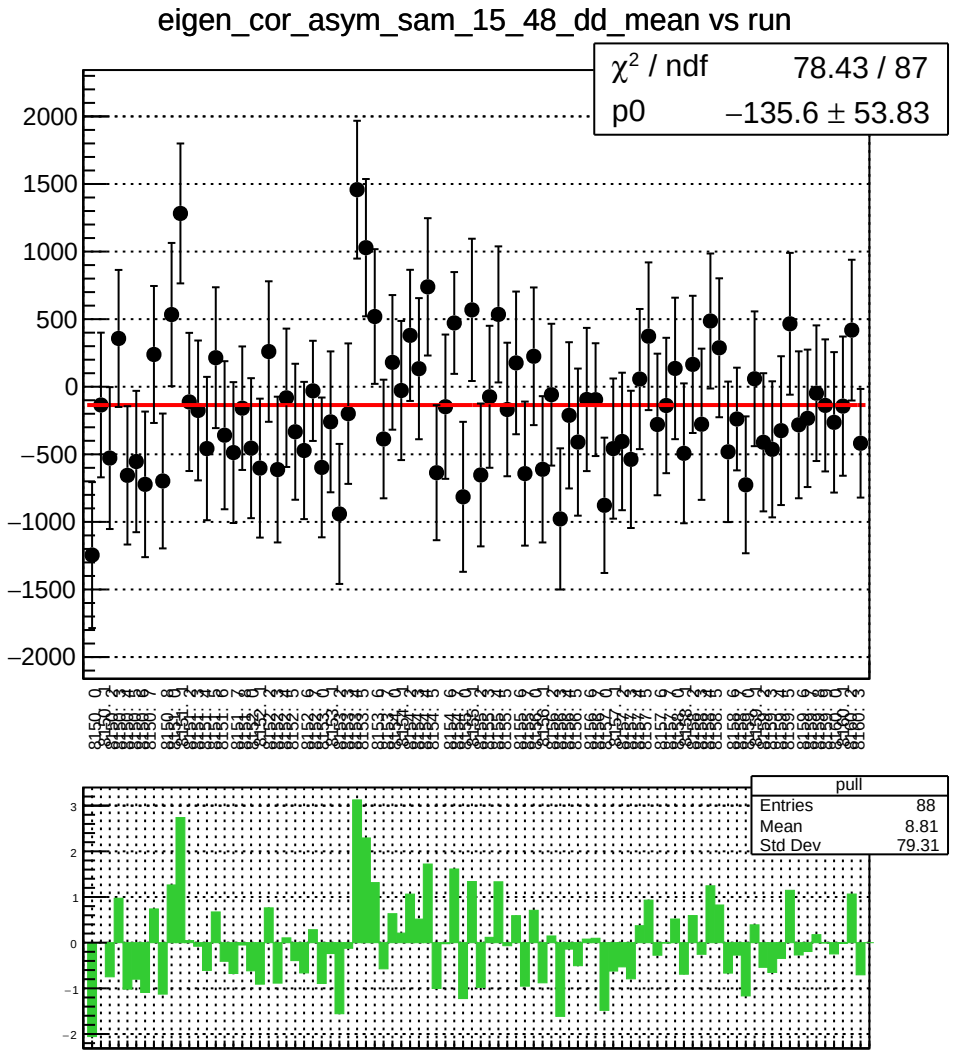

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 78.43 / 87
p0 −135.6 ± 53.83
pull
Entries 88
Mean 8.81
Std Dev 79.31

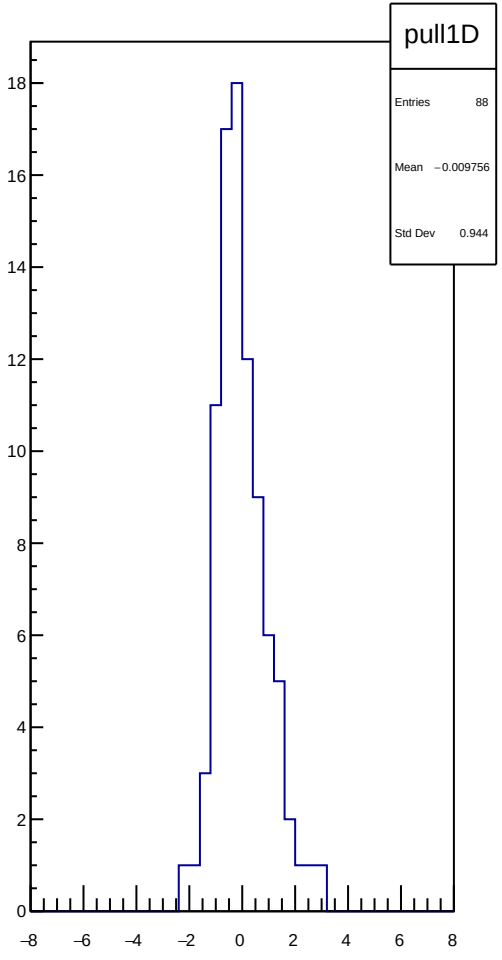

pull1D
Entries 88
Mean −0.009756
Std Dev 0.944

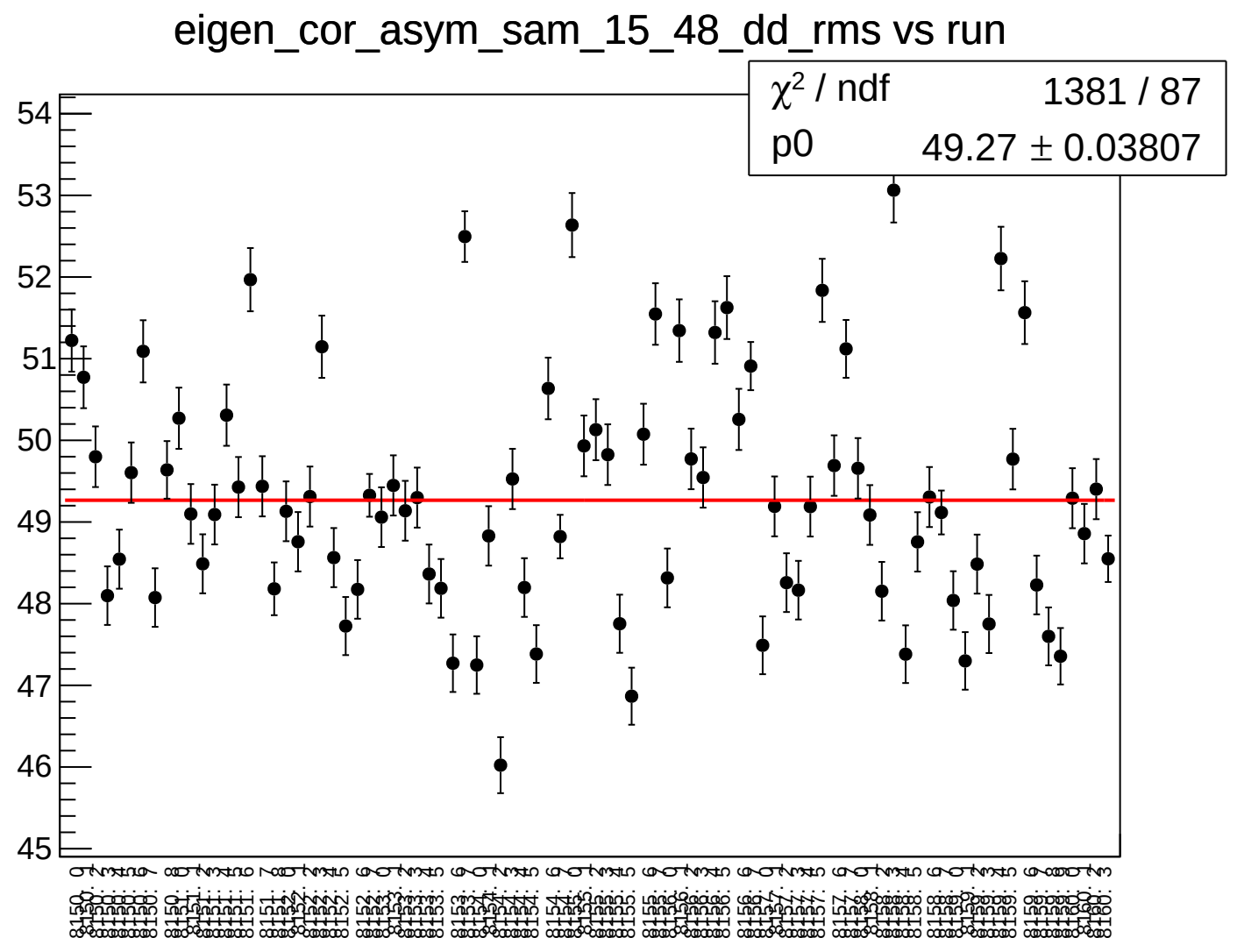

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1381 / 87
p0 49.27 ± 0.03807
54
53
52
51
50
49
48
47
46
45

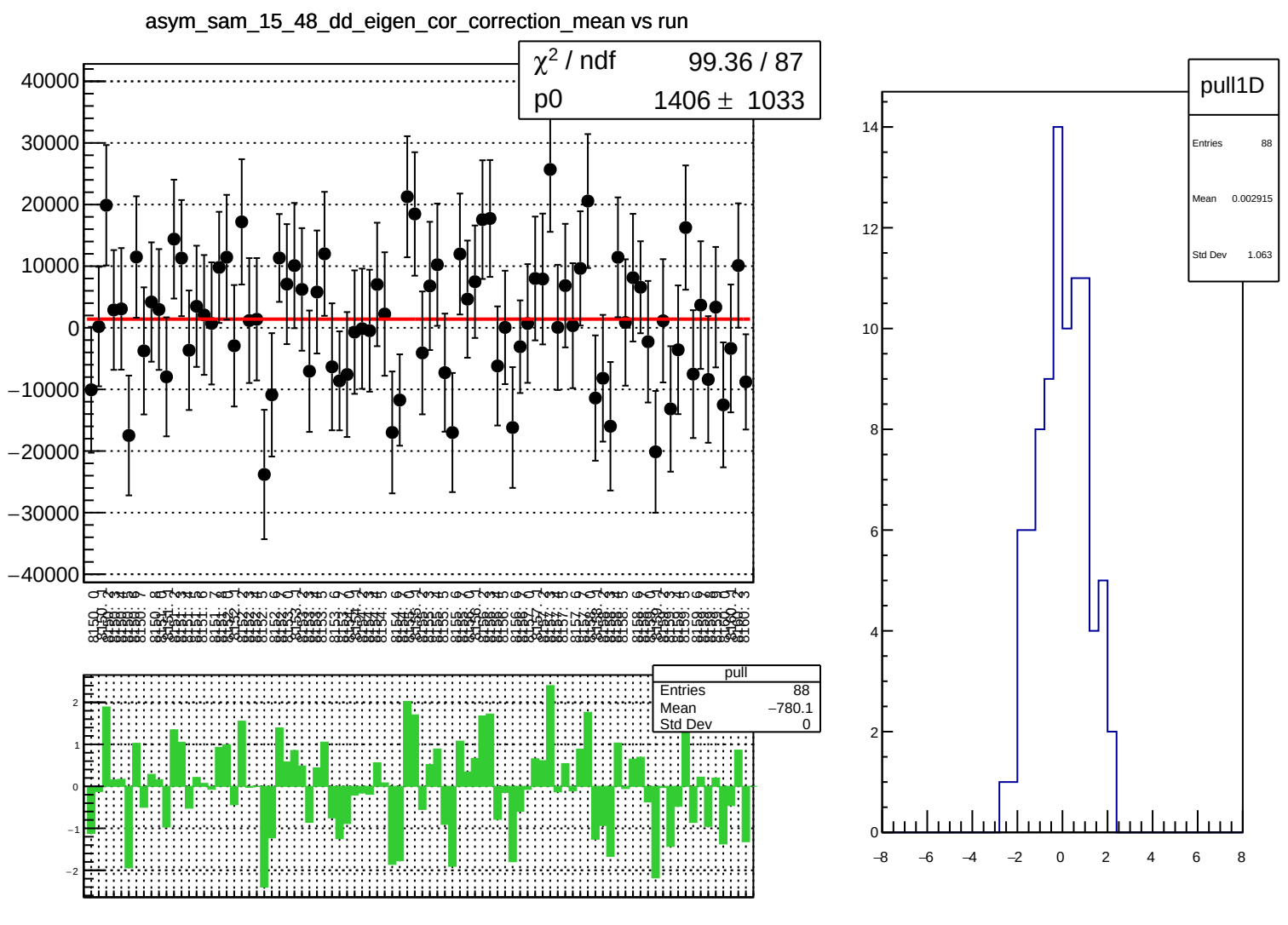

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 99.36 / 87
p0 1406 ± 1033
pull
Entries 88
Mean −780.1
Std Dev 0
pull1D
Entries 88
Mean 0.002915
Std Dev 1.063

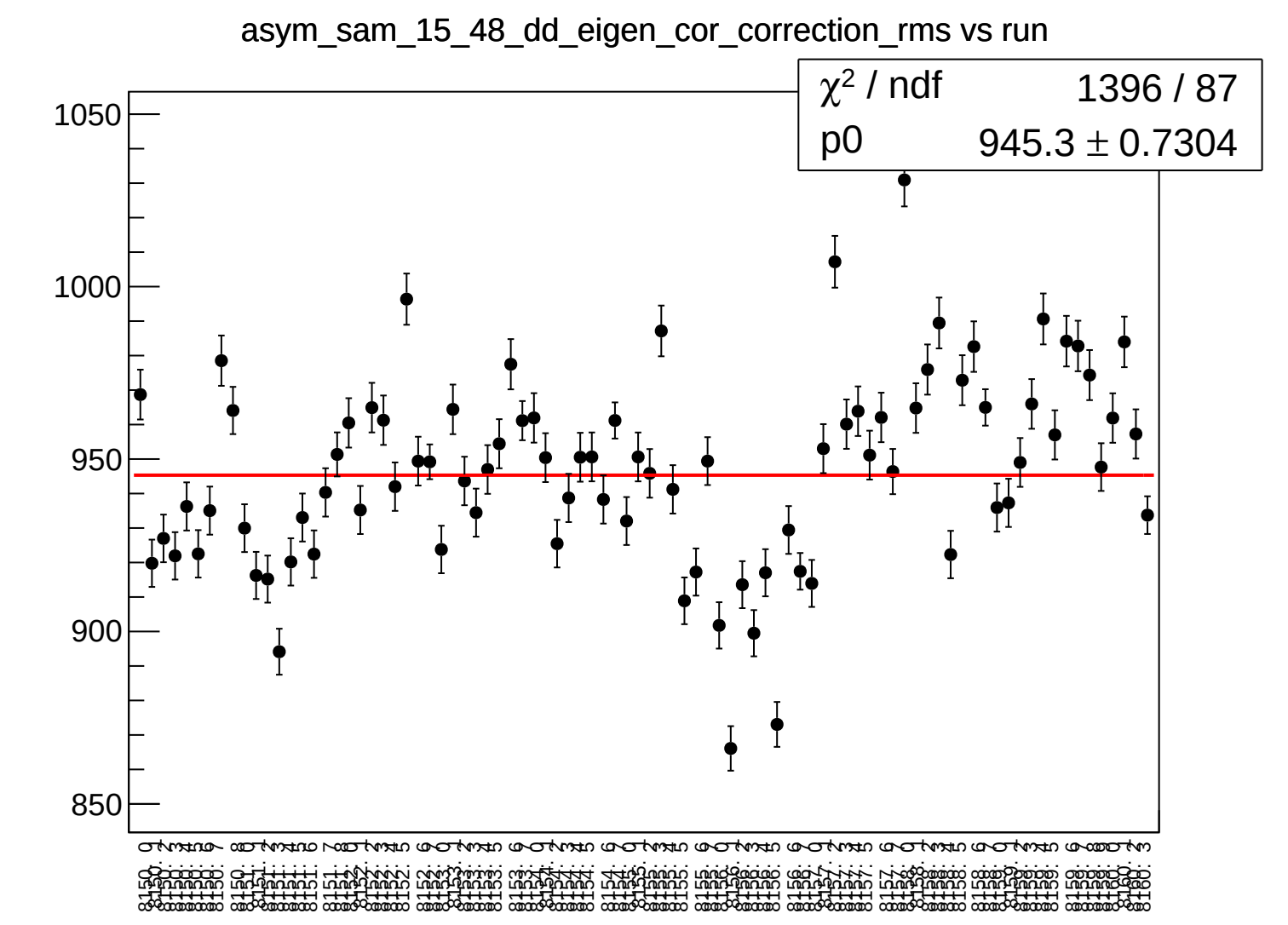

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1396 / 87
p0 945.3 ± 0.7304
1050
1000
950
900
850

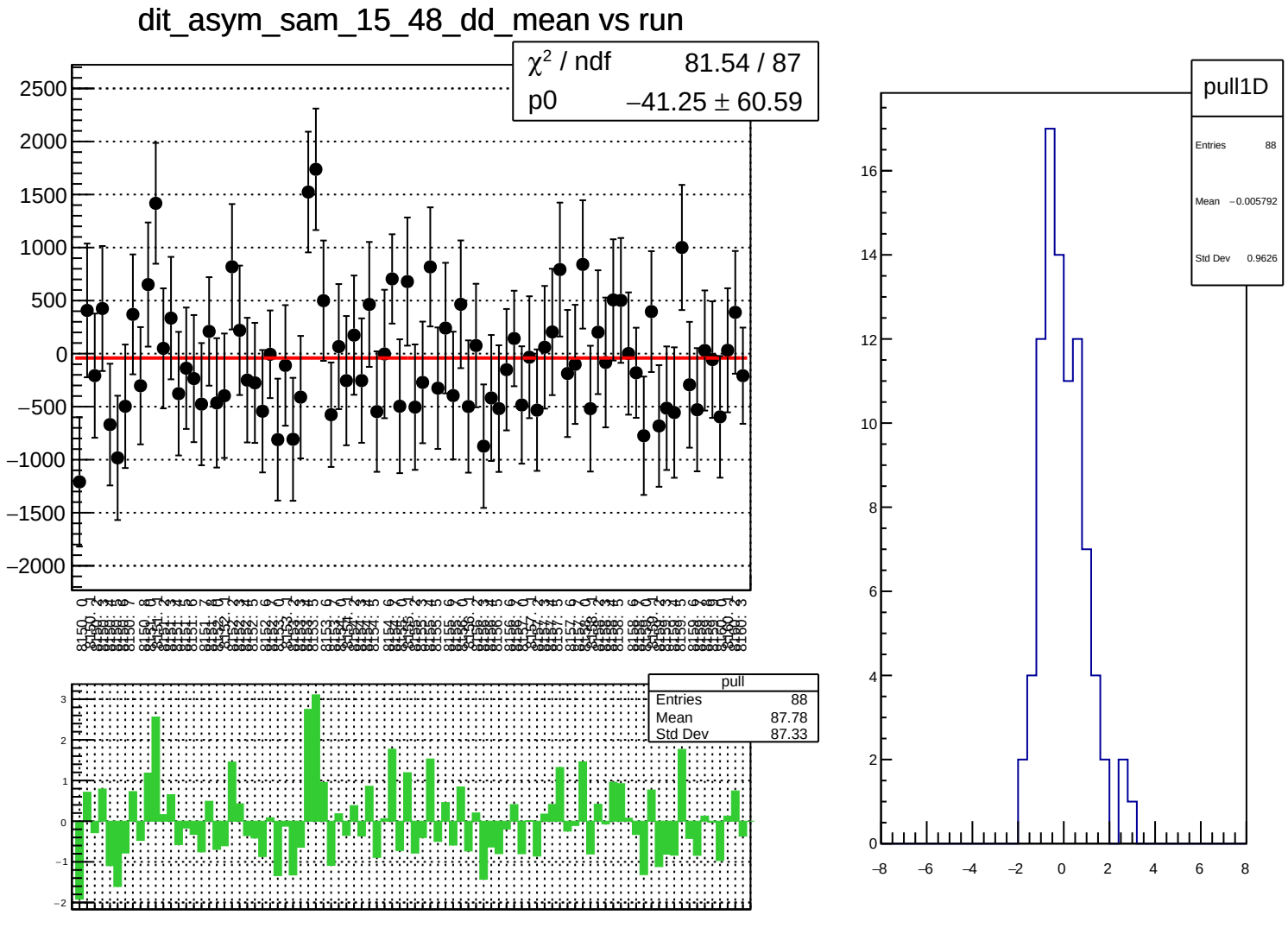

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 78.43 / 87
p0 −135.6 ± 53.83
pull
Entries 88
Mean 8.81
Std Dev 79.31

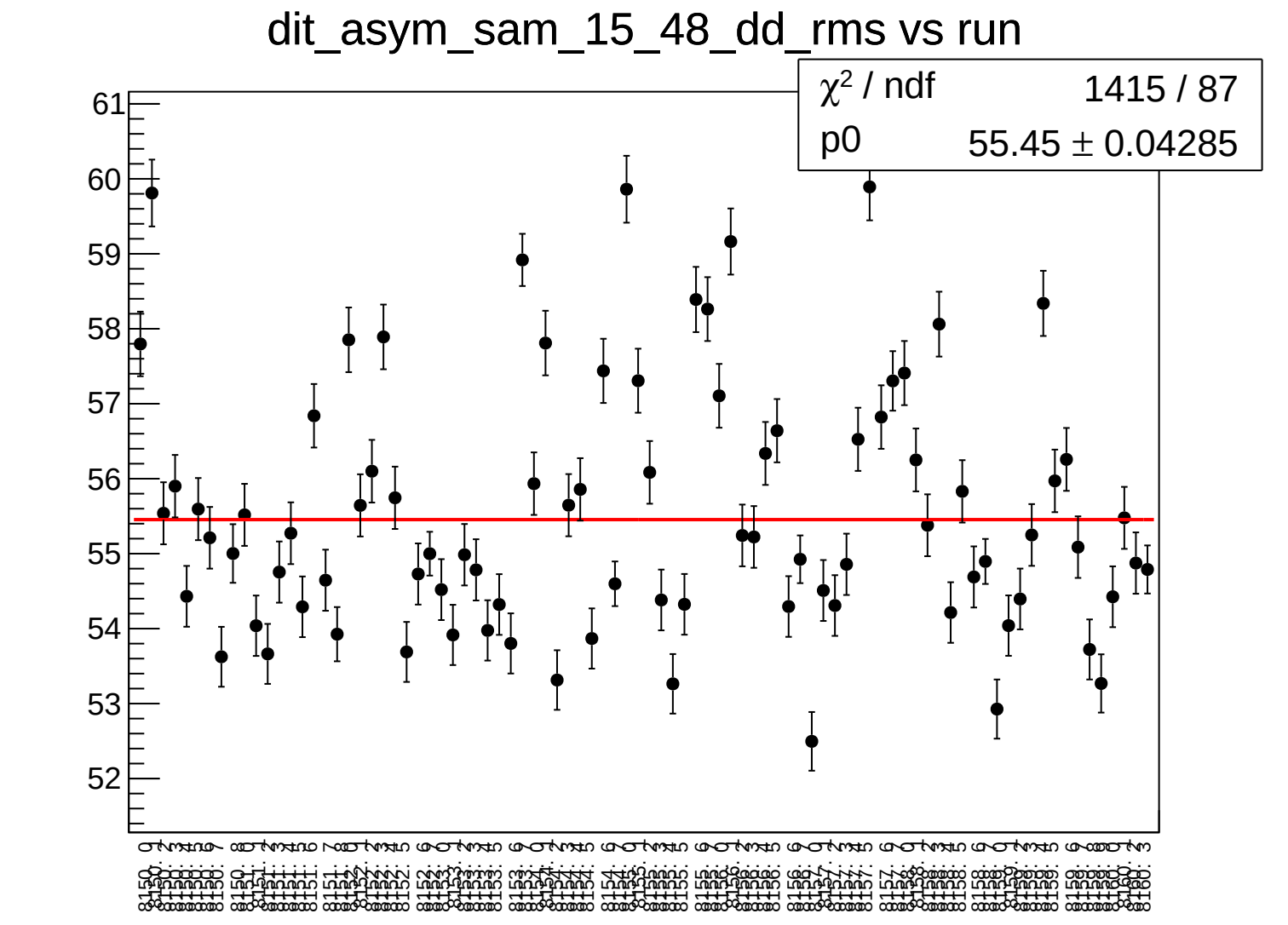

pull1D
Entries 88
Mean −0.009756
Std Dev 0.944

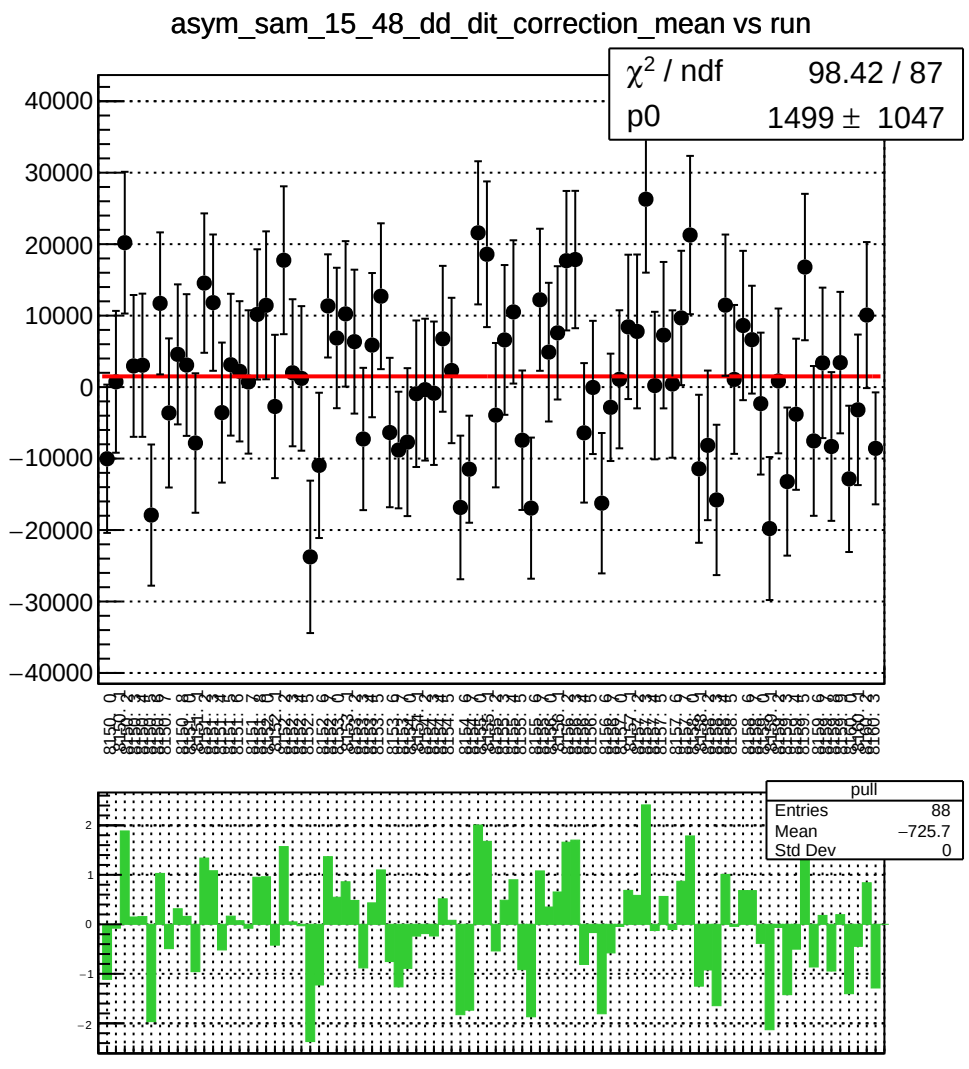

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1381 / 87
p0 49.27 ± 0.03807
54
53
52
51
50
49
48
47
46
45

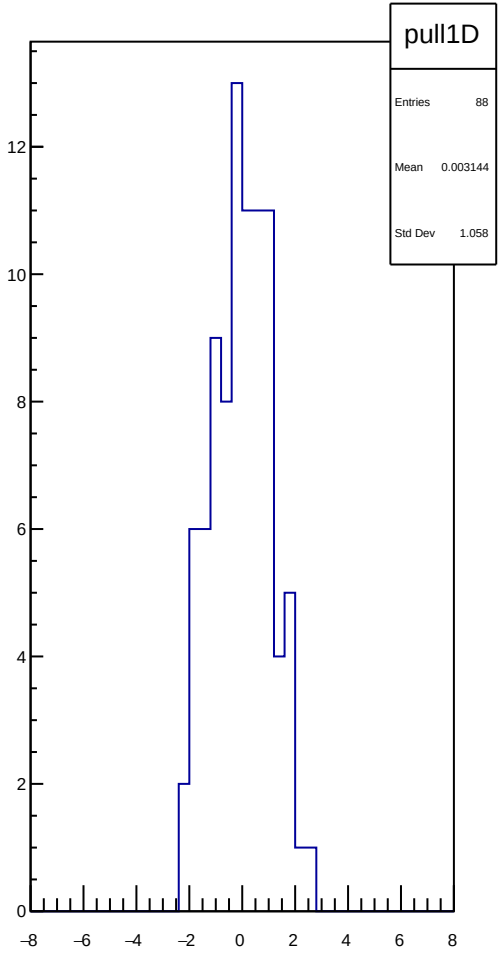

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.36 / 87
p0 1406 ± 1033
pull
Entries 88
Mean −780.1
Std Dev 0
pull1D
Entries 88
Mean 0.002915
Std Dev 1.063

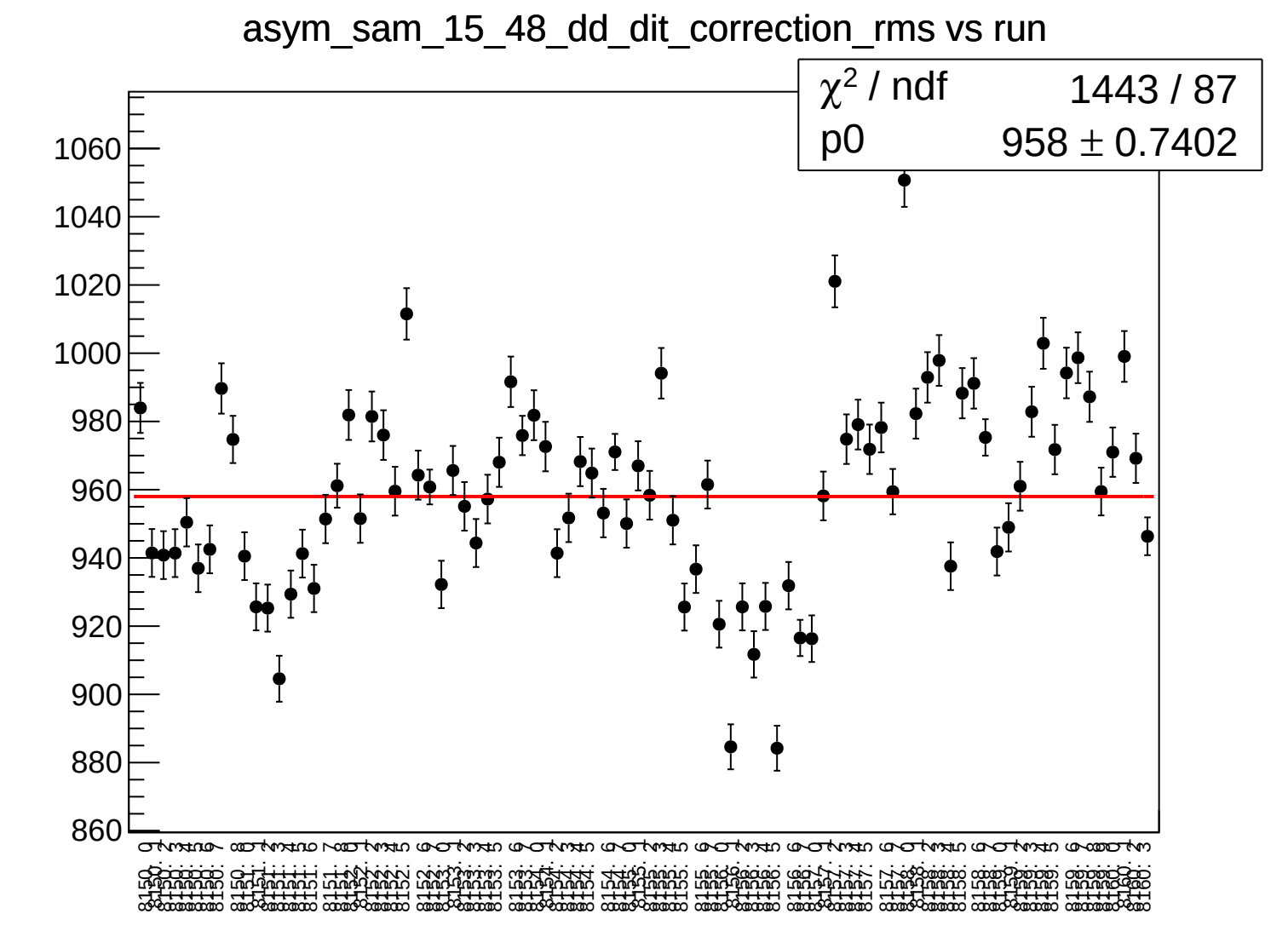

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1396 / 87
p0 945.3 ± 0.7304
1050
1000
950
900
850

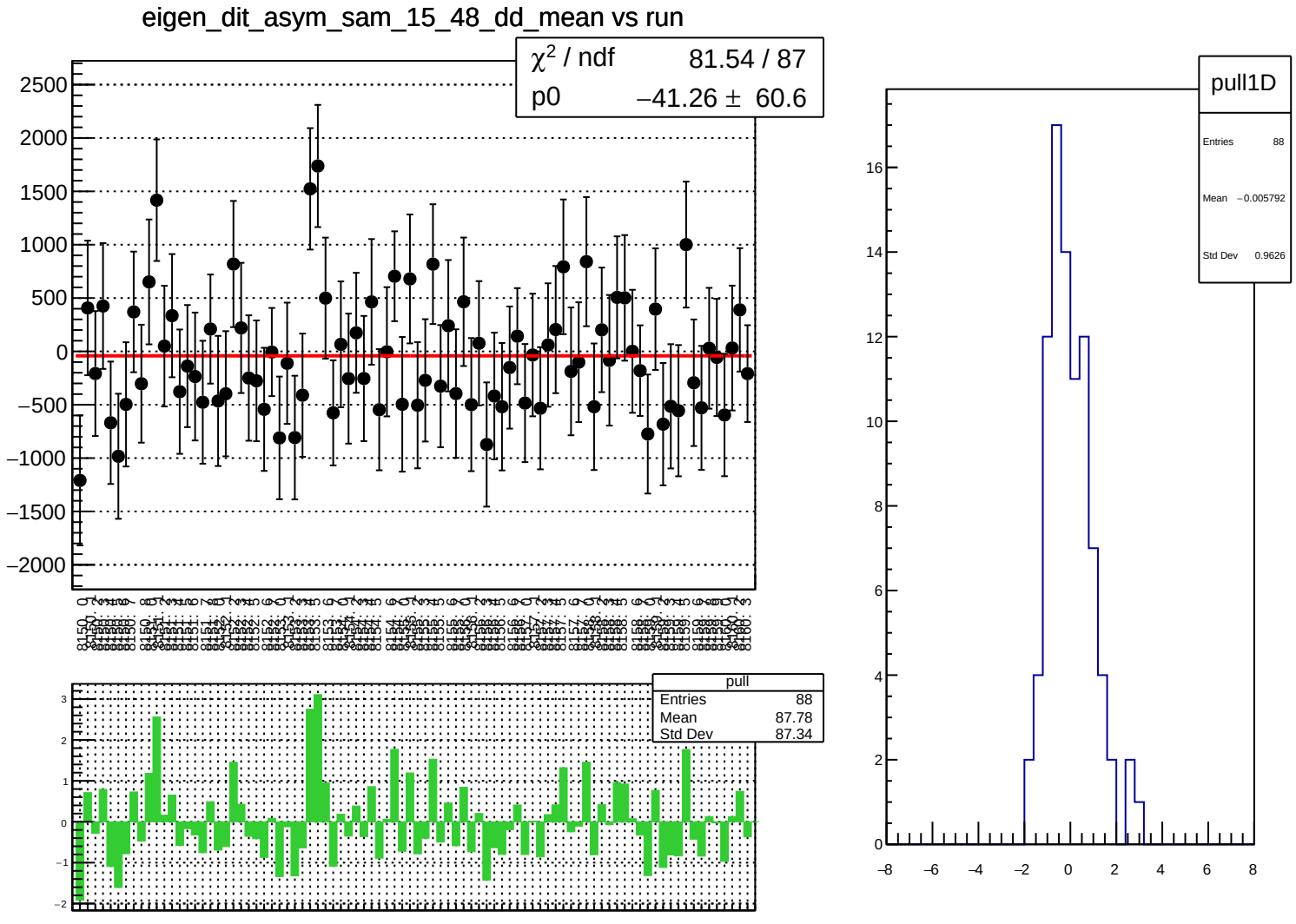

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 81.54 / 87
p0 −41.25 ± 60.59
pull
Entries 88
Mean 87.78
Std Dev 87.33
pull1D
Entries 88
Mean −0.005792
Std Dev 0.9626

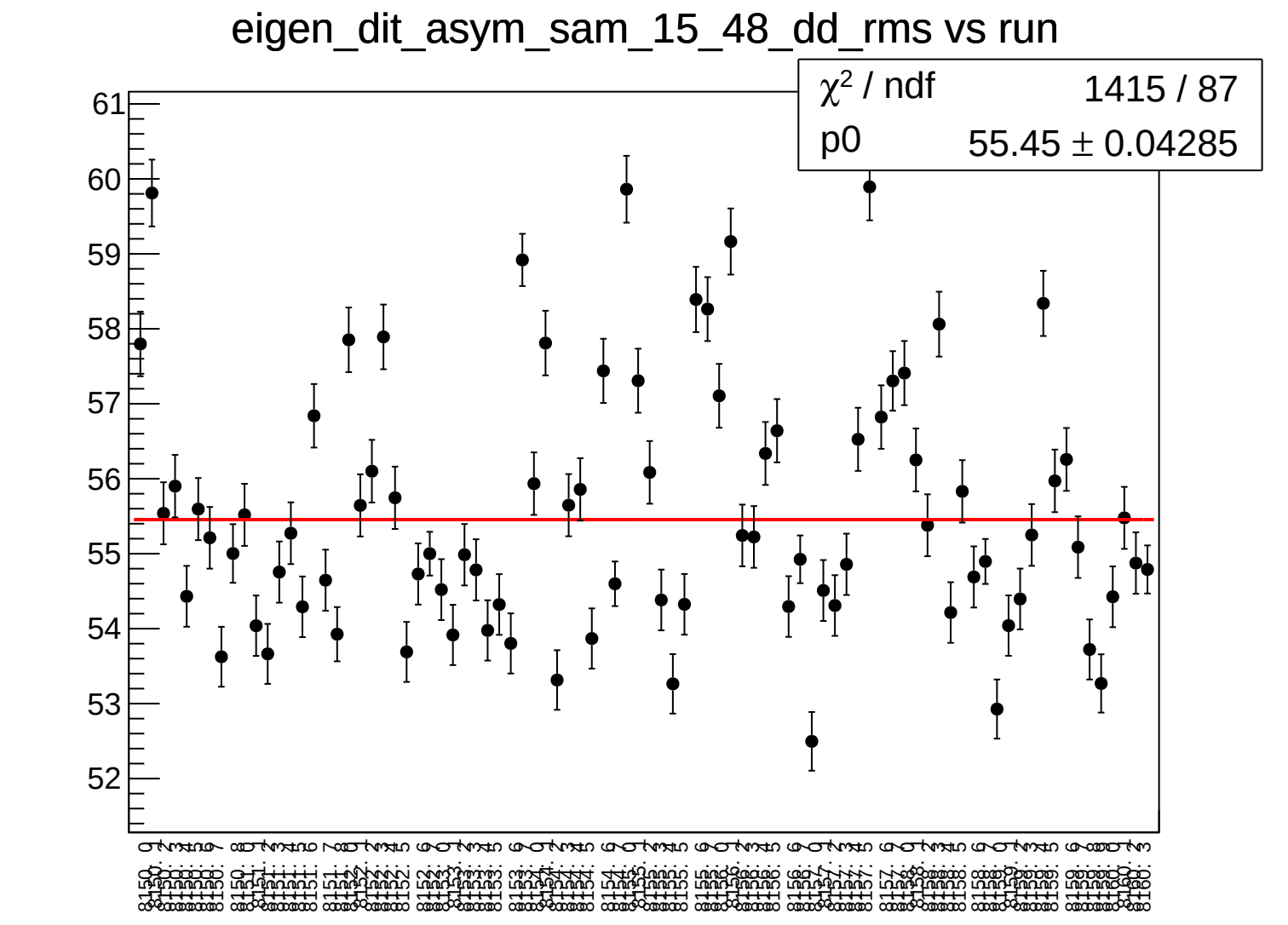

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1415 / 87
p0 55.45 ± 0.04285
61
60
59
58
57
56
55
54
53
52

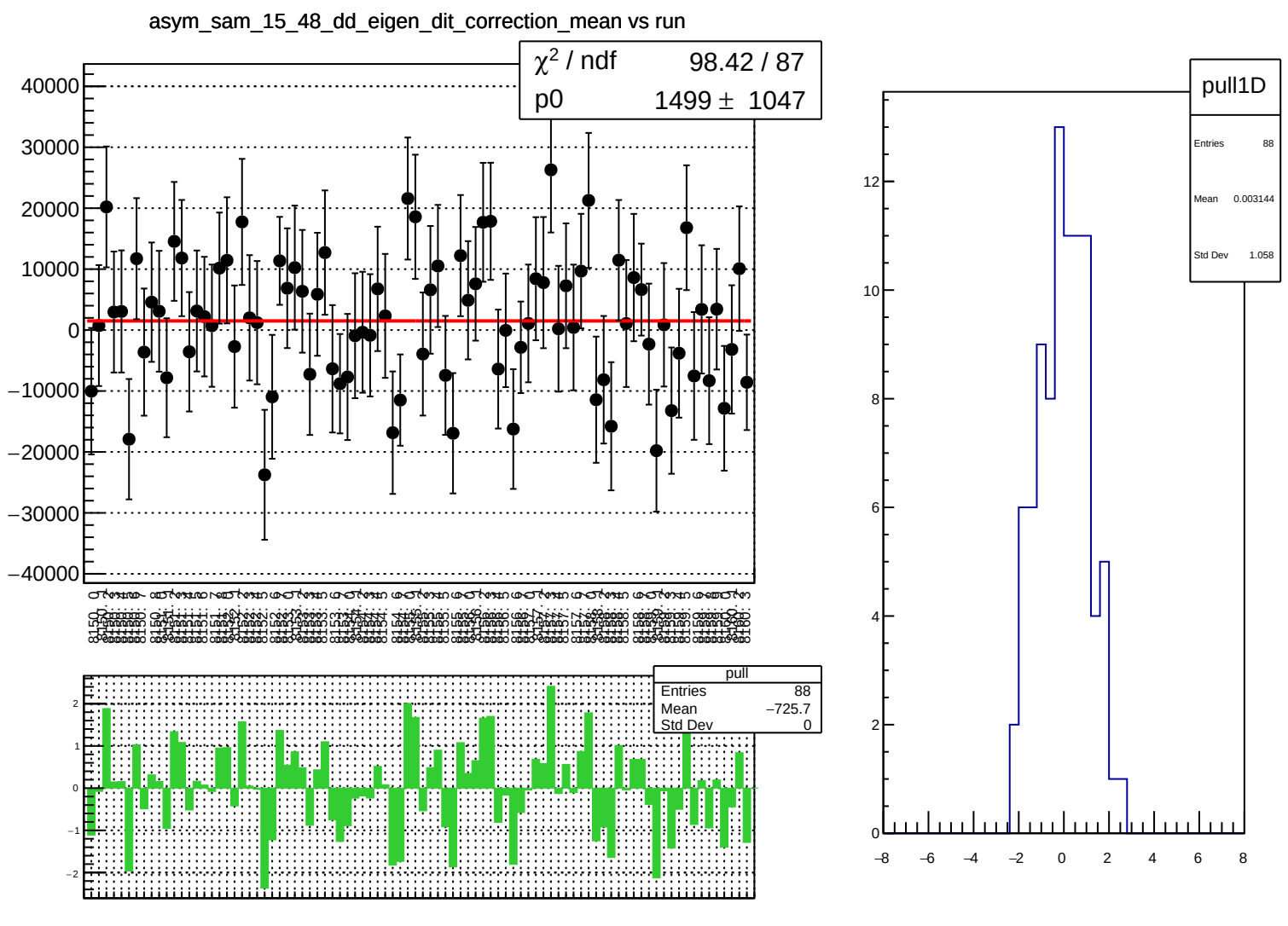

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 98.42 / 87
p0 1499 ± 1047
pull
Entries 88
Mean −725.7
Std Dev 0

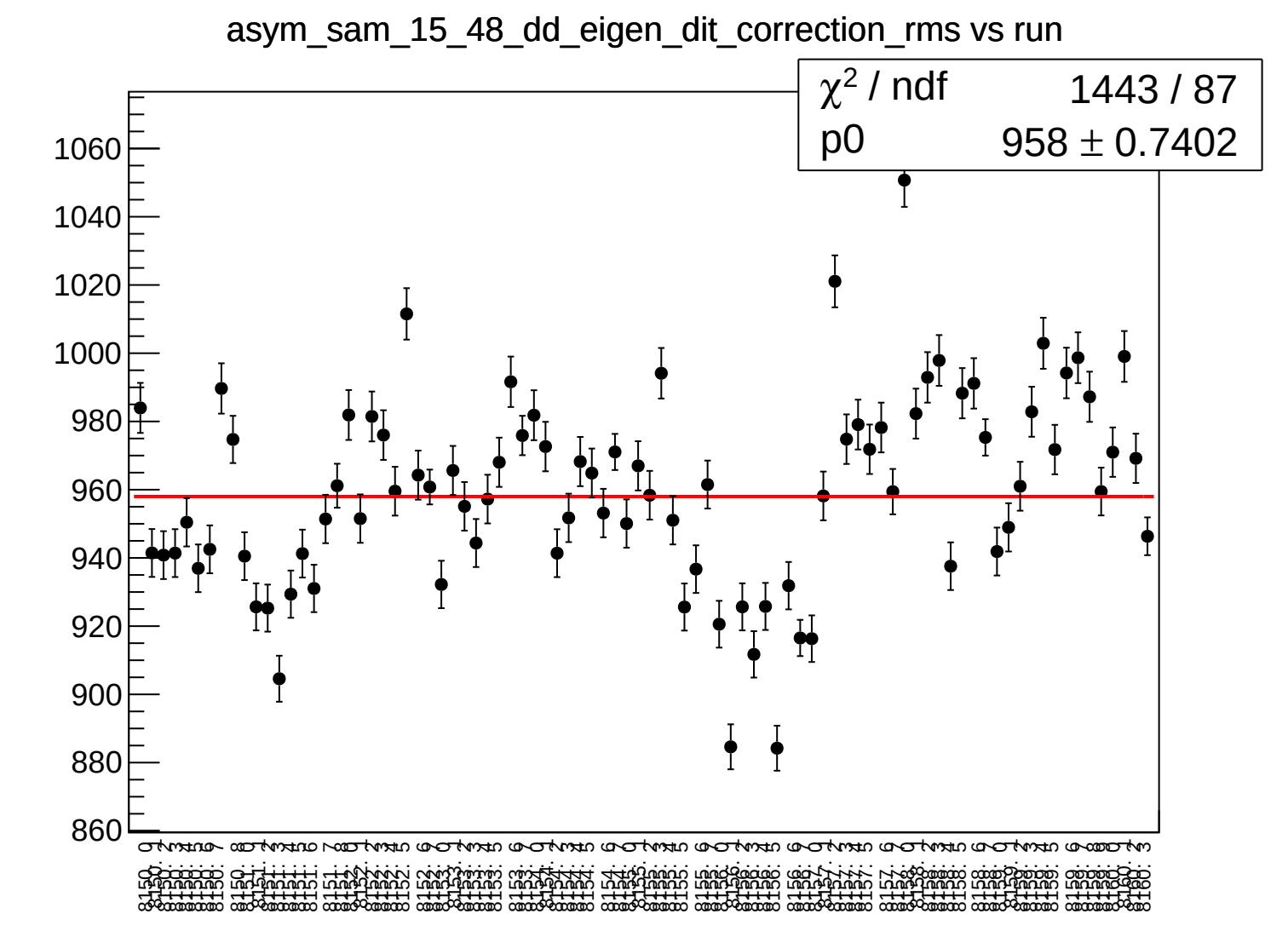

pull1D
Entries 88
Mean 0.003144
Std Dev 1.058

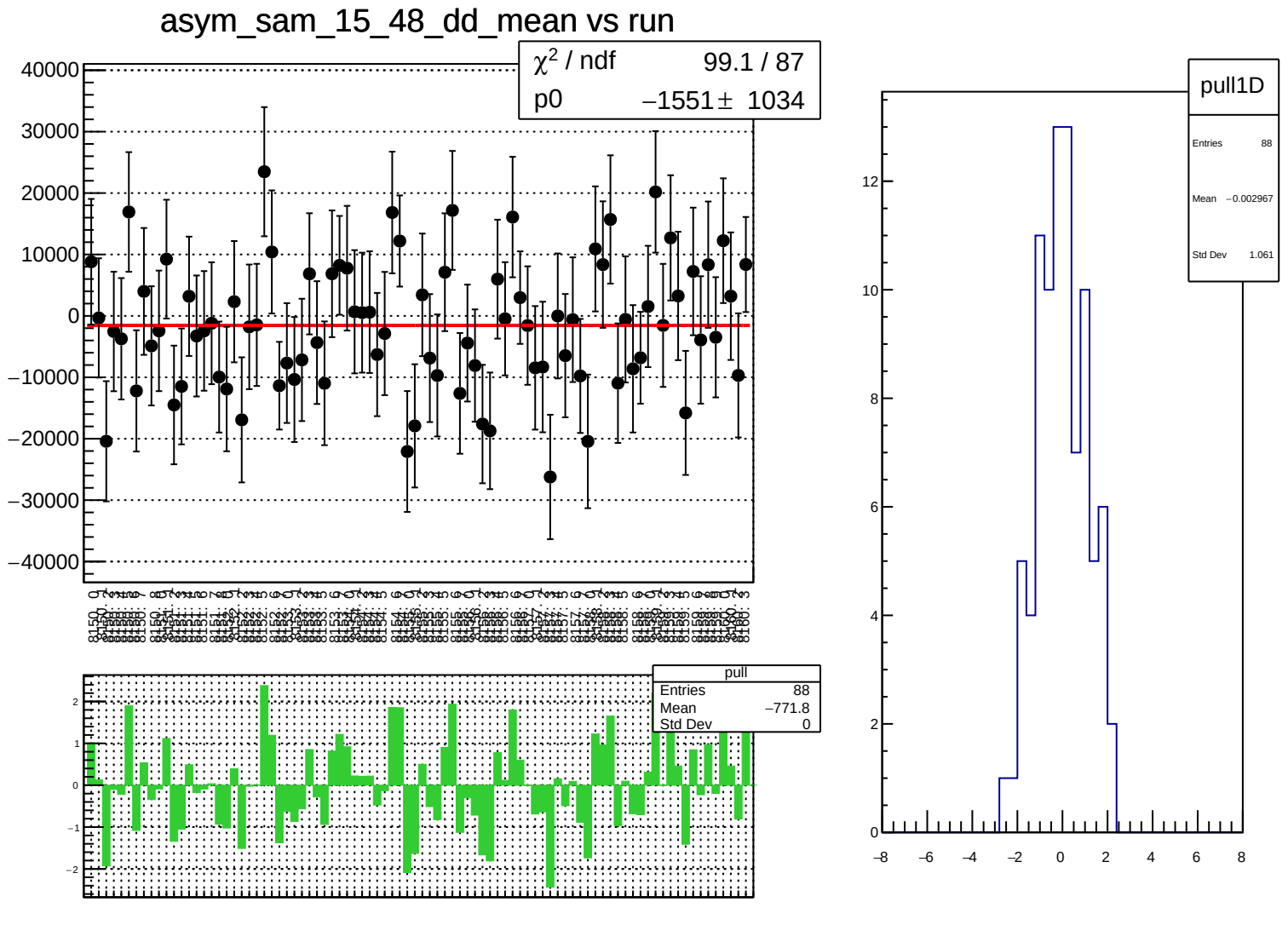

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1443 / 87
p0 958 ± 0.7402
1060
1040
1020
1000
980
960
940
920
900
880
860

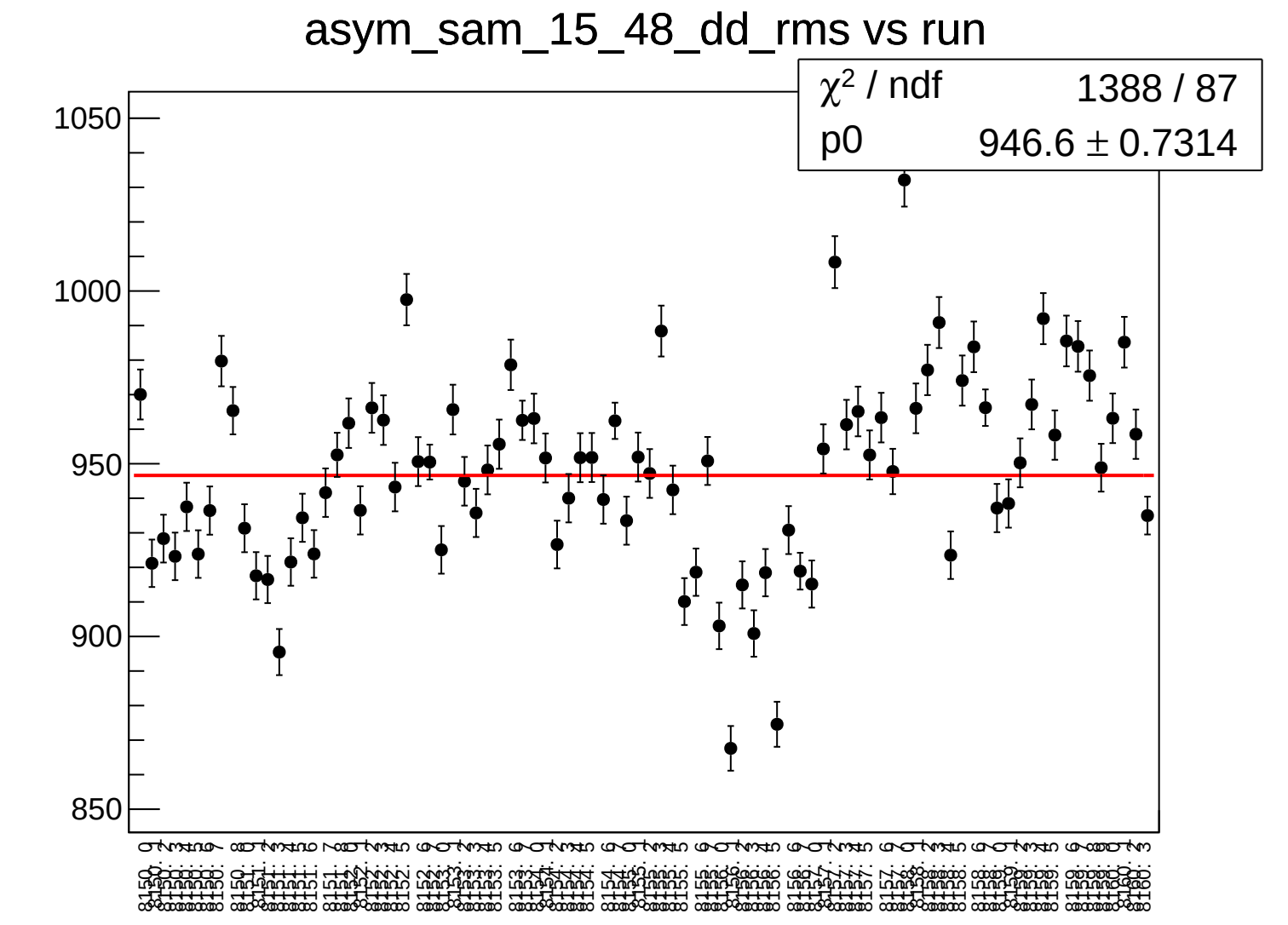

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 81.54 / 87
p0 −41.26 ± 60.6
pull
Entries 88
Mean 87.78
Std Dev 87.34
pull1D
Entries 88
Mean −0.005792
Std Dev 0.9626

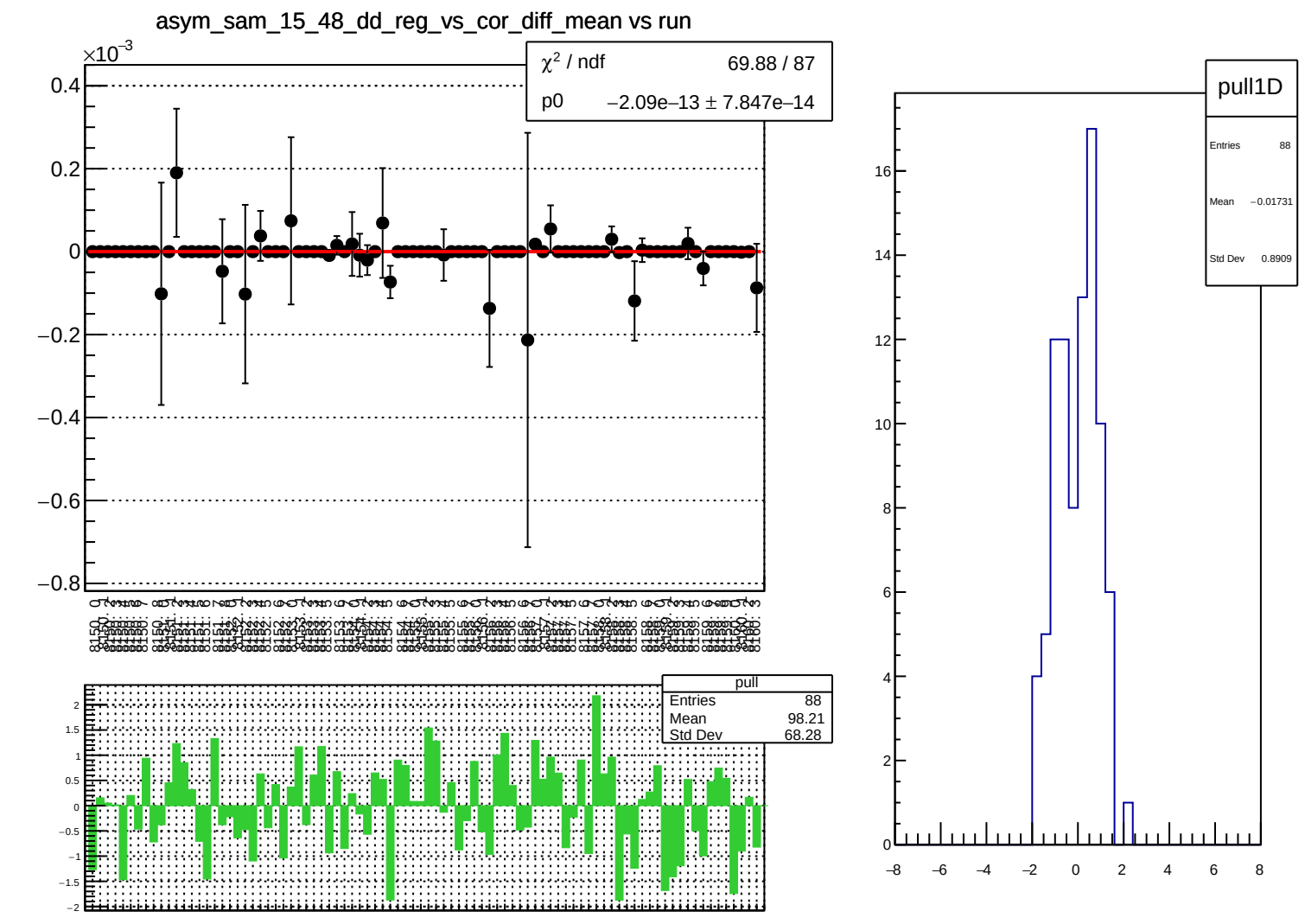

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1415 / 87
p0 55.45 ± 0.04285
61
60
59
58
57
56
55
54
53
52

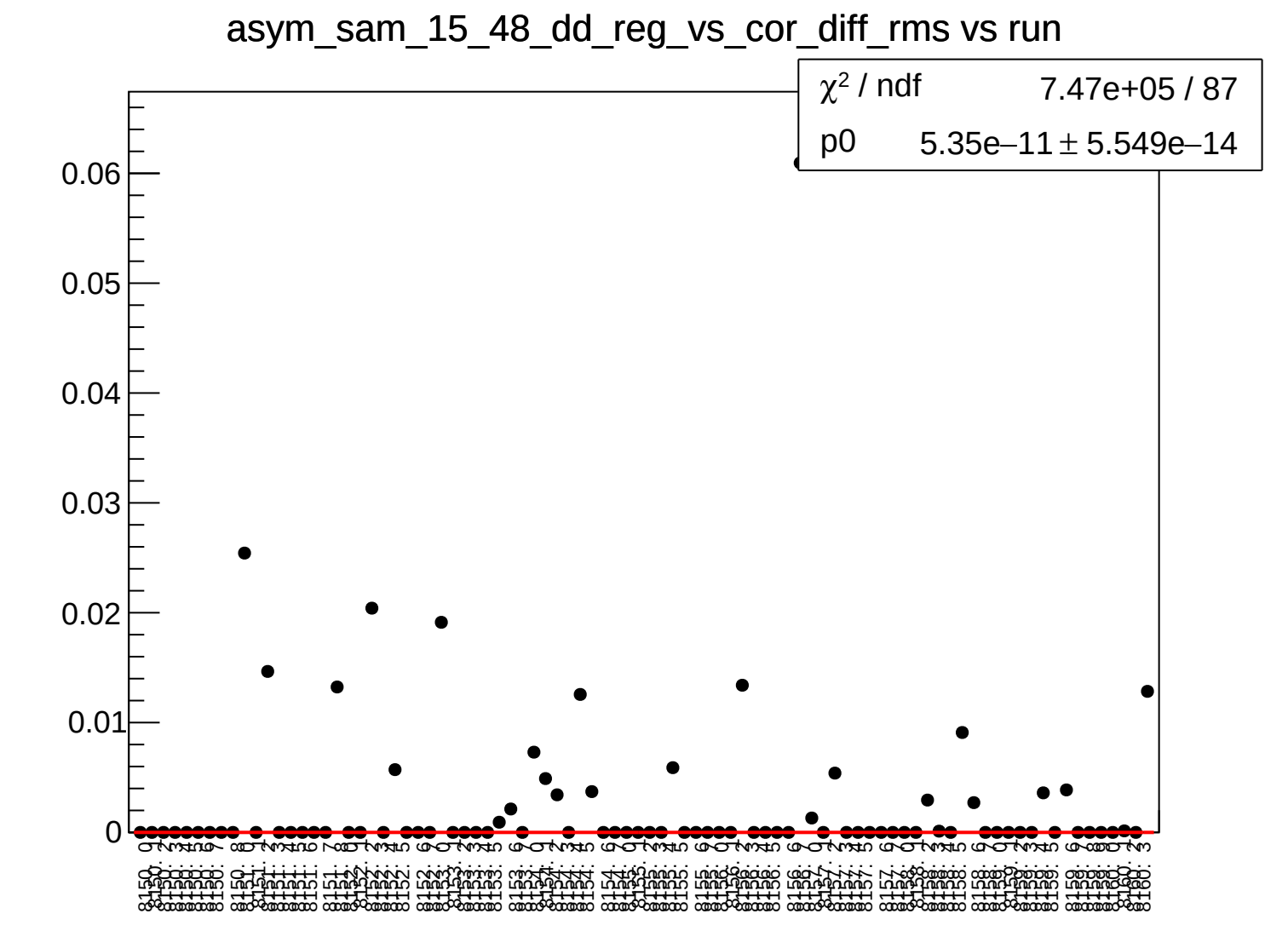

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.42 / 87
p0 1499 ± 1047
pull
Entries 88
Mean −725.7
Std Dev 0
pull1D
Entries 88
Mean 0.003144
Std Dev 1.058

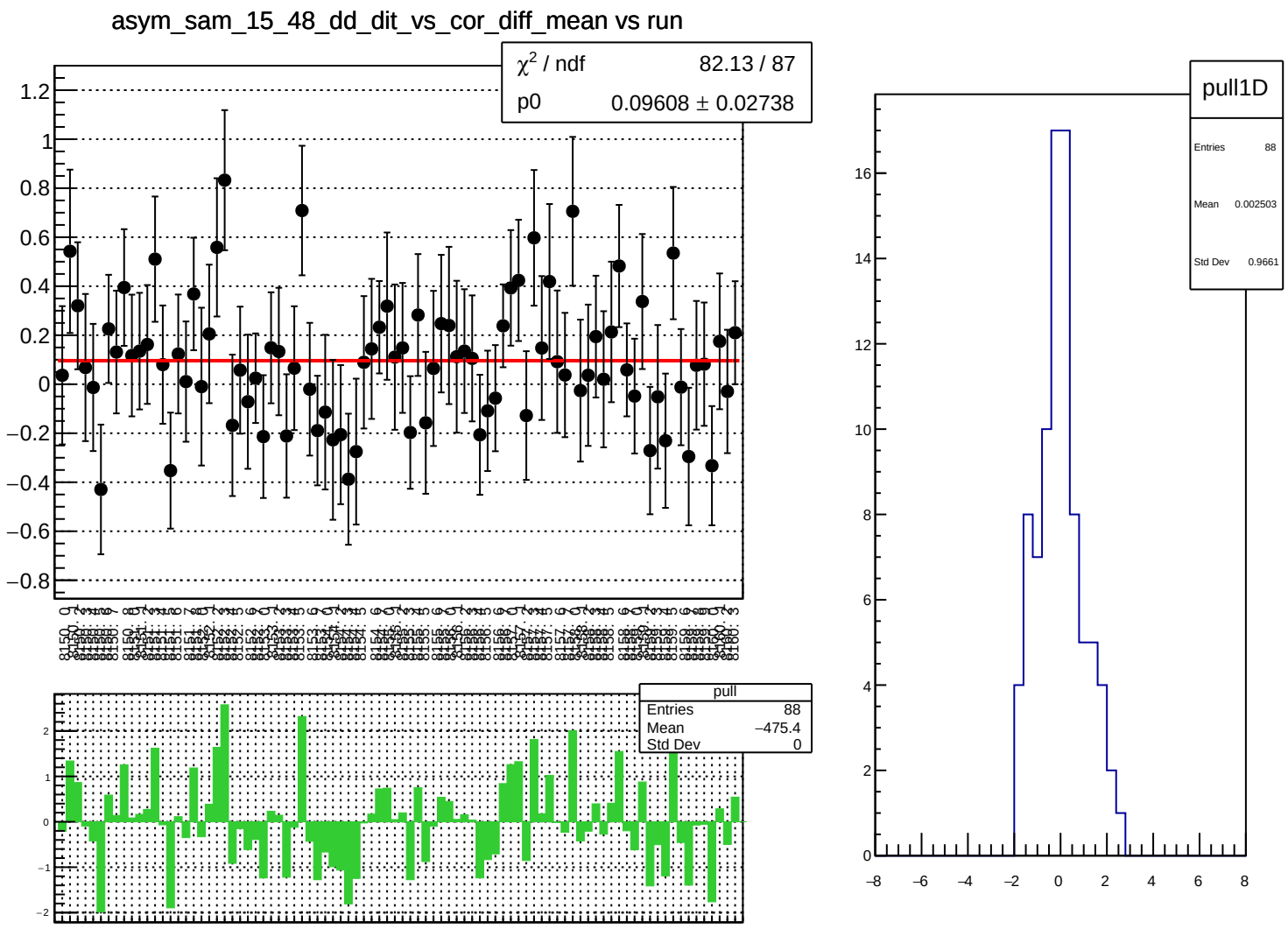

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1443 / 87
p0 958 ± 0.7402
1060
1040
1020
1000
980
960
940
920
900
880
860

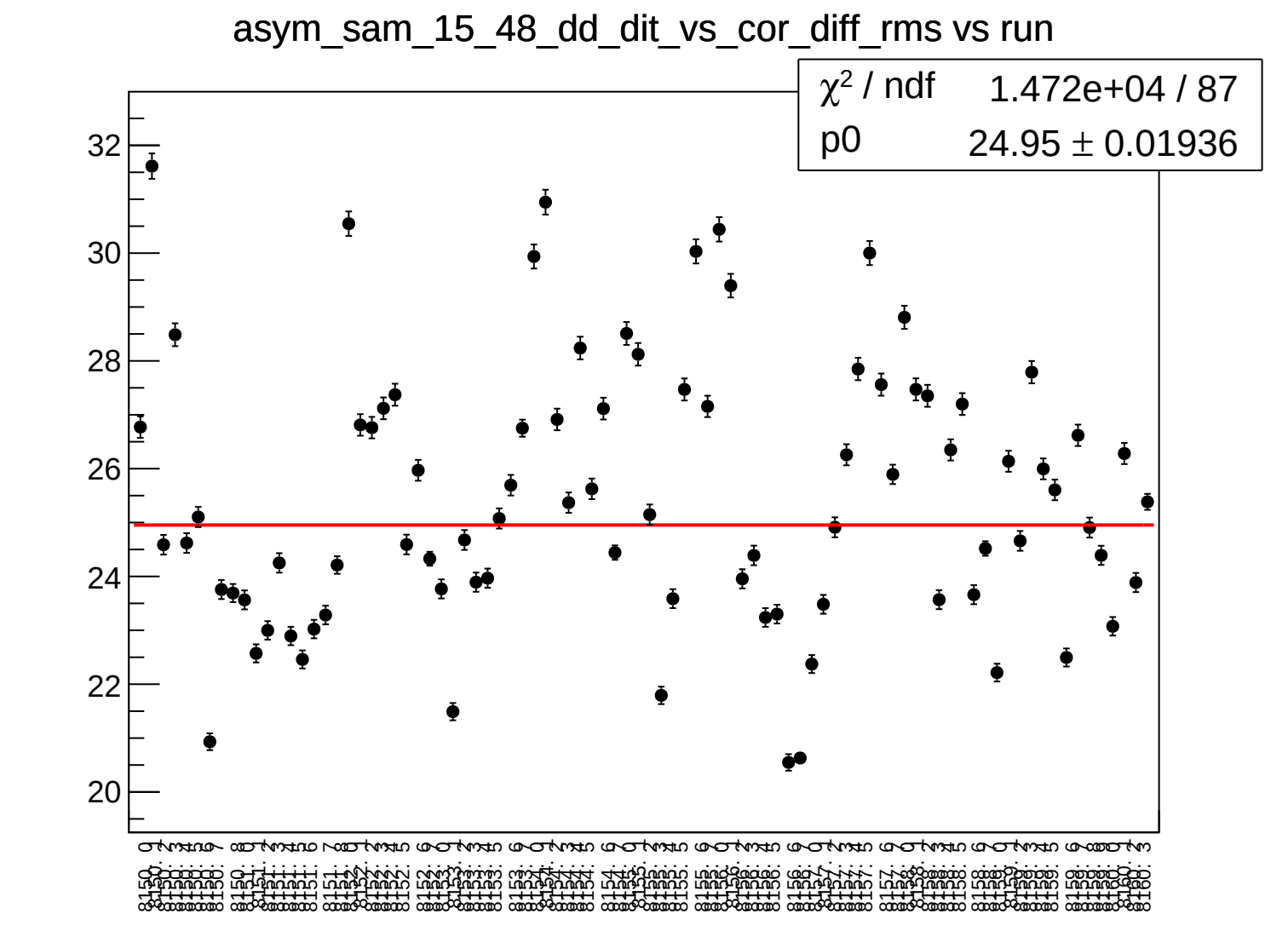

asym_sam_15_48_dd_mean vs run
χ² / ndf 99.1 / 87
p0 −1551 ± 1034
pull
Entries 88
Mean −771.8
Std Dev 0
pull1D
Entries 88
Mean −0.002967
Std Dev 1.061

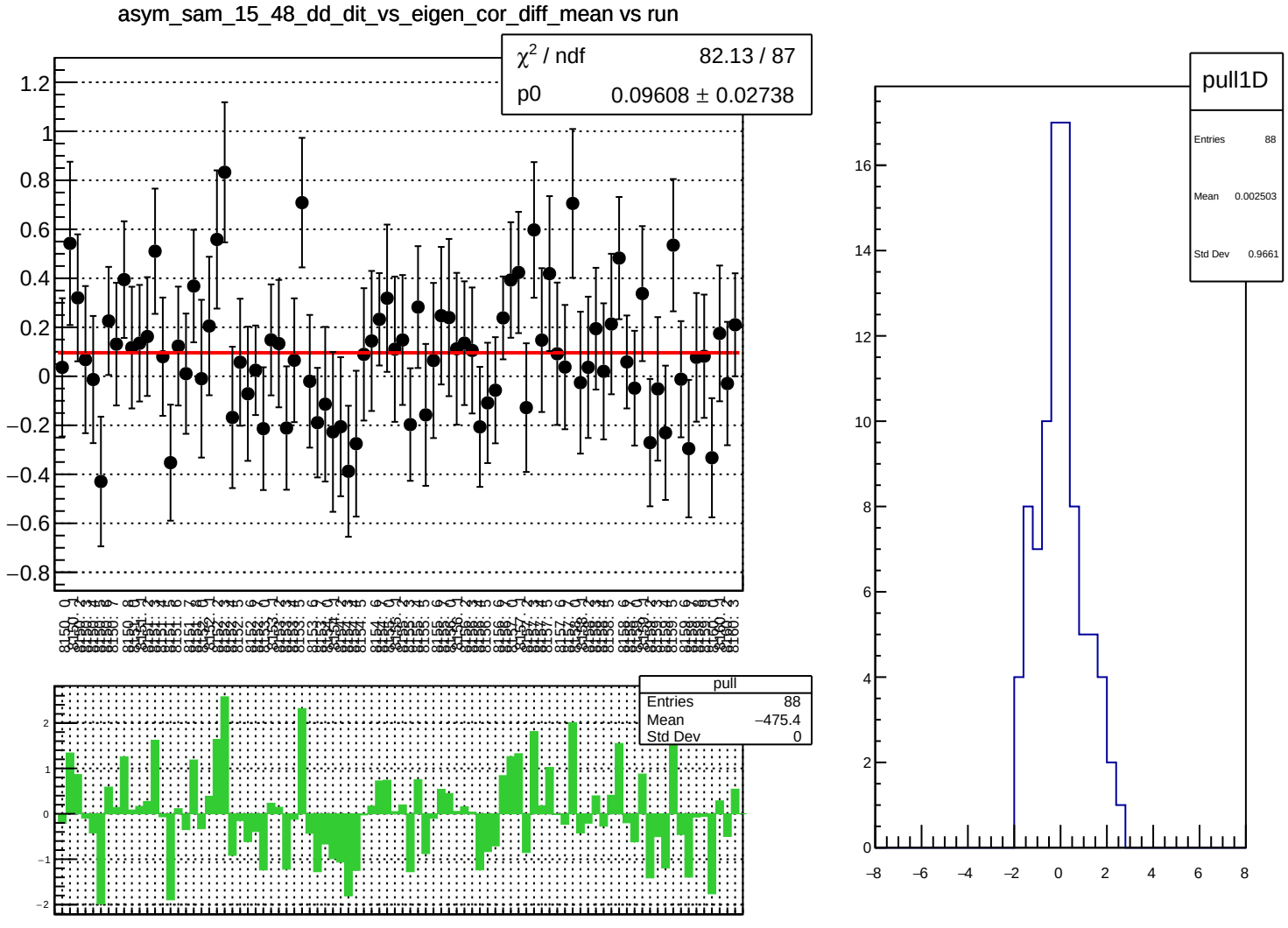

asym_sam_15_48_dd_rms vs run
χ² / ndf 1388 / 87
p0 946.6 ± 0.7314
1050
1000
950
900
850

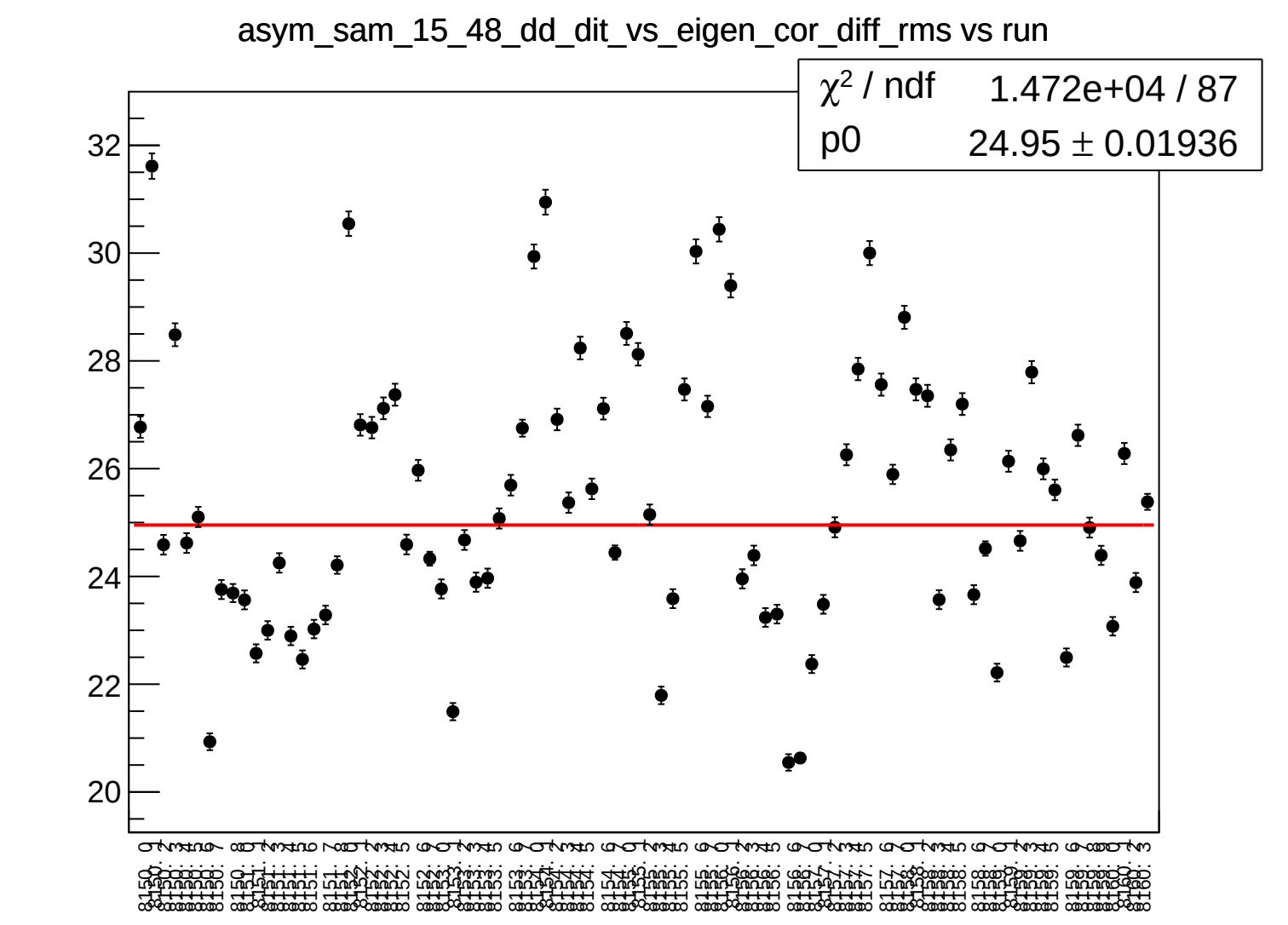

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 69.88 / 87
p0 −2.09e−13 ± 7.847e−14
pull
Entries 88
Mean 98.21
Std Dev 68.28
pull1D
Entries 88
Mean −0.01731
Std Dev 0.8909

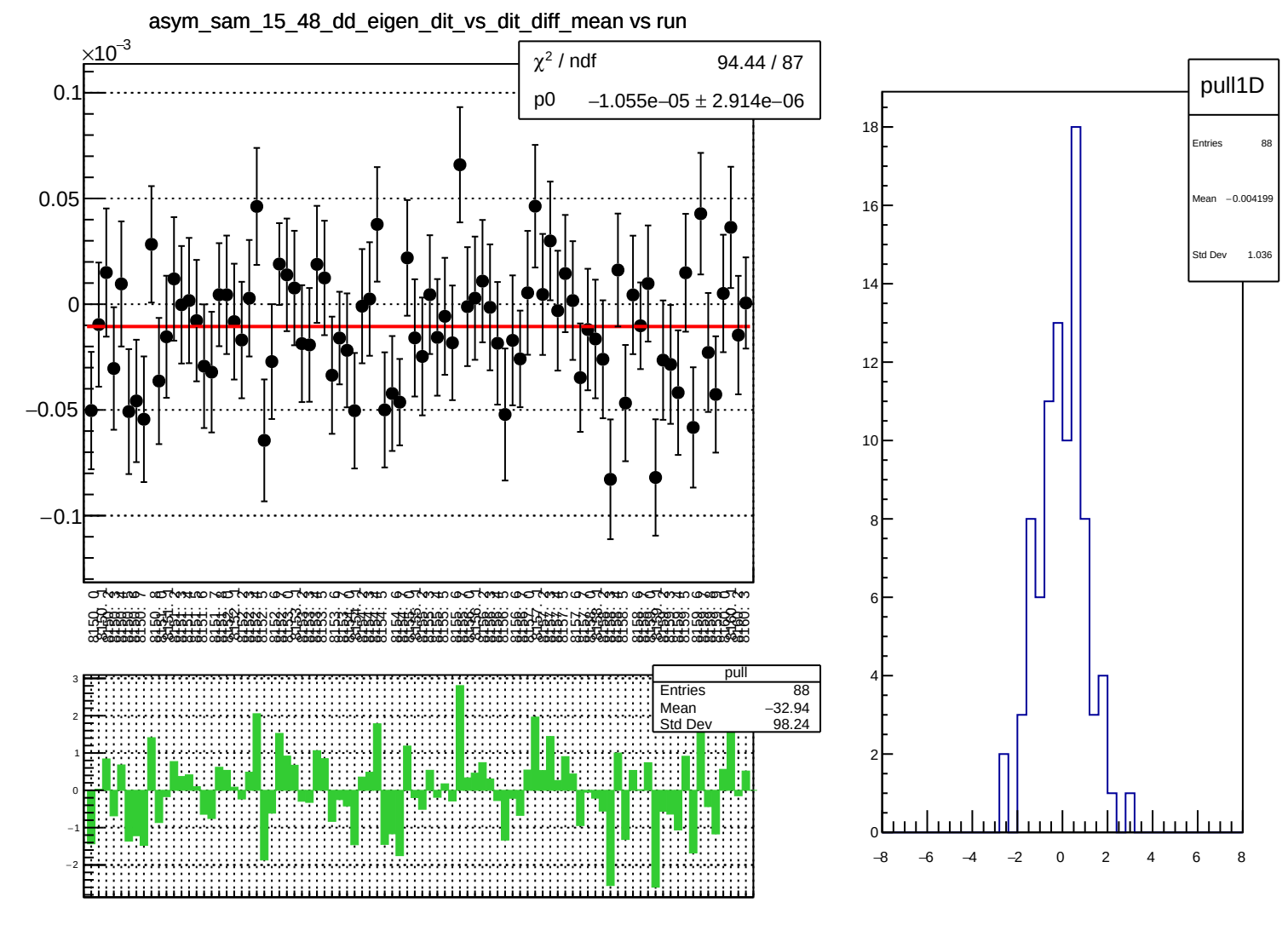

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.47e+05 / 87
p0 5.35e−11 ± 5.549e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

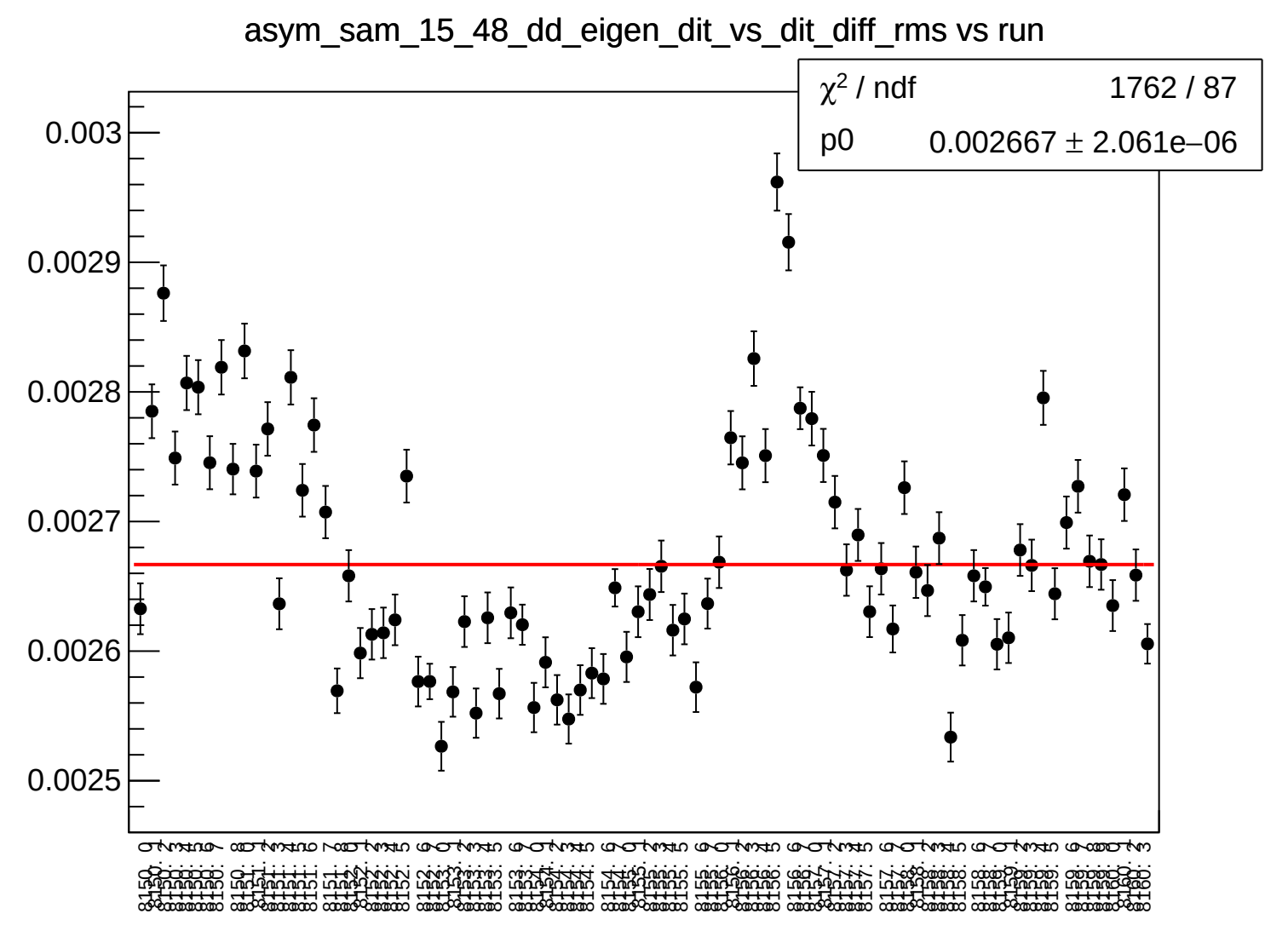

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.13 / 87
p0 0.09608 ± 0.02738
pull
Entries 88
Mean −475.4
Std Dev 0
pull1D
Entries 88
Mean 0.002503
Std Dev 0.9661

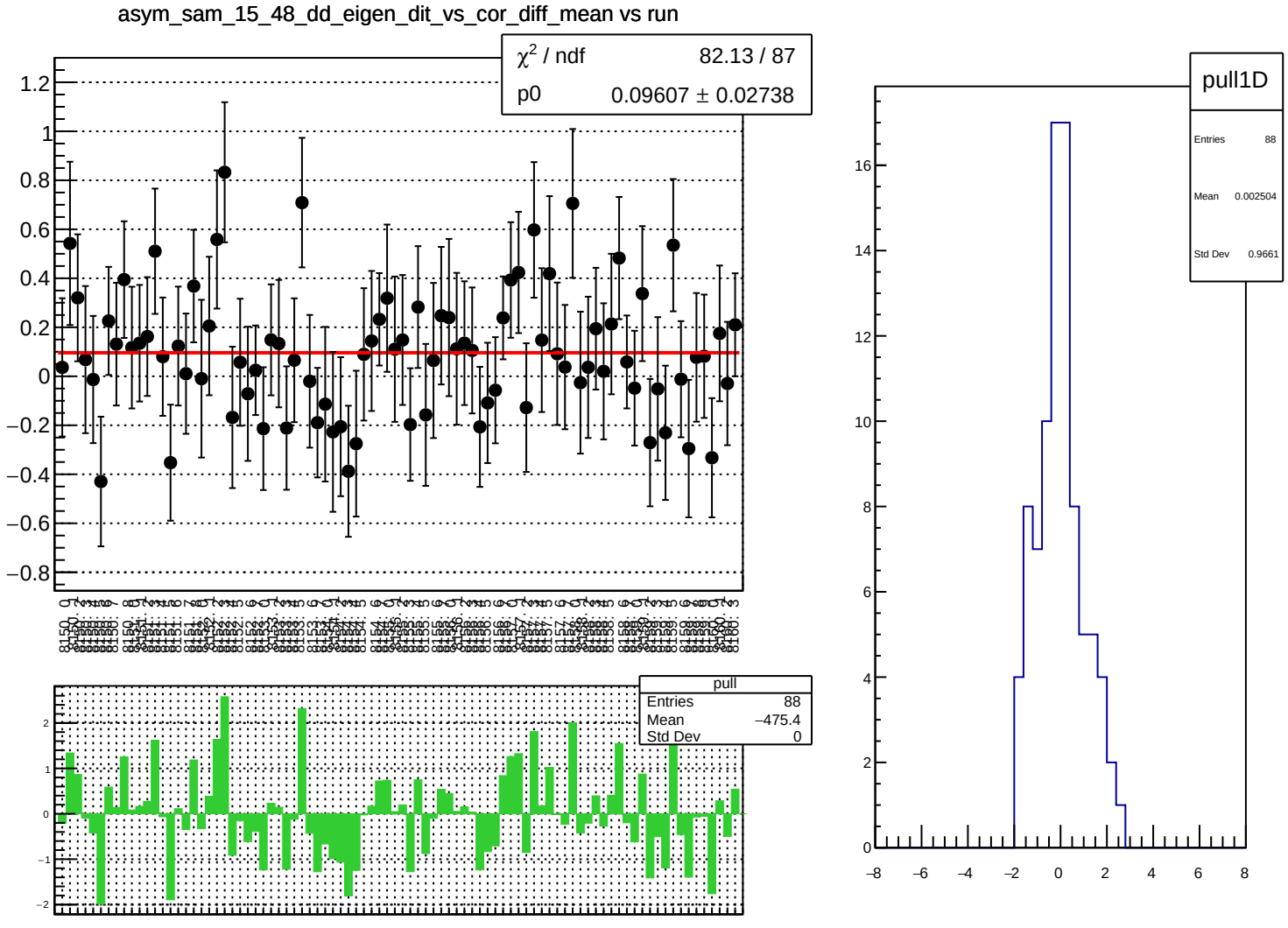

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.472e+04 / 87
p0 24.95 ± 0.01936
32
30
28
26
24
22
20

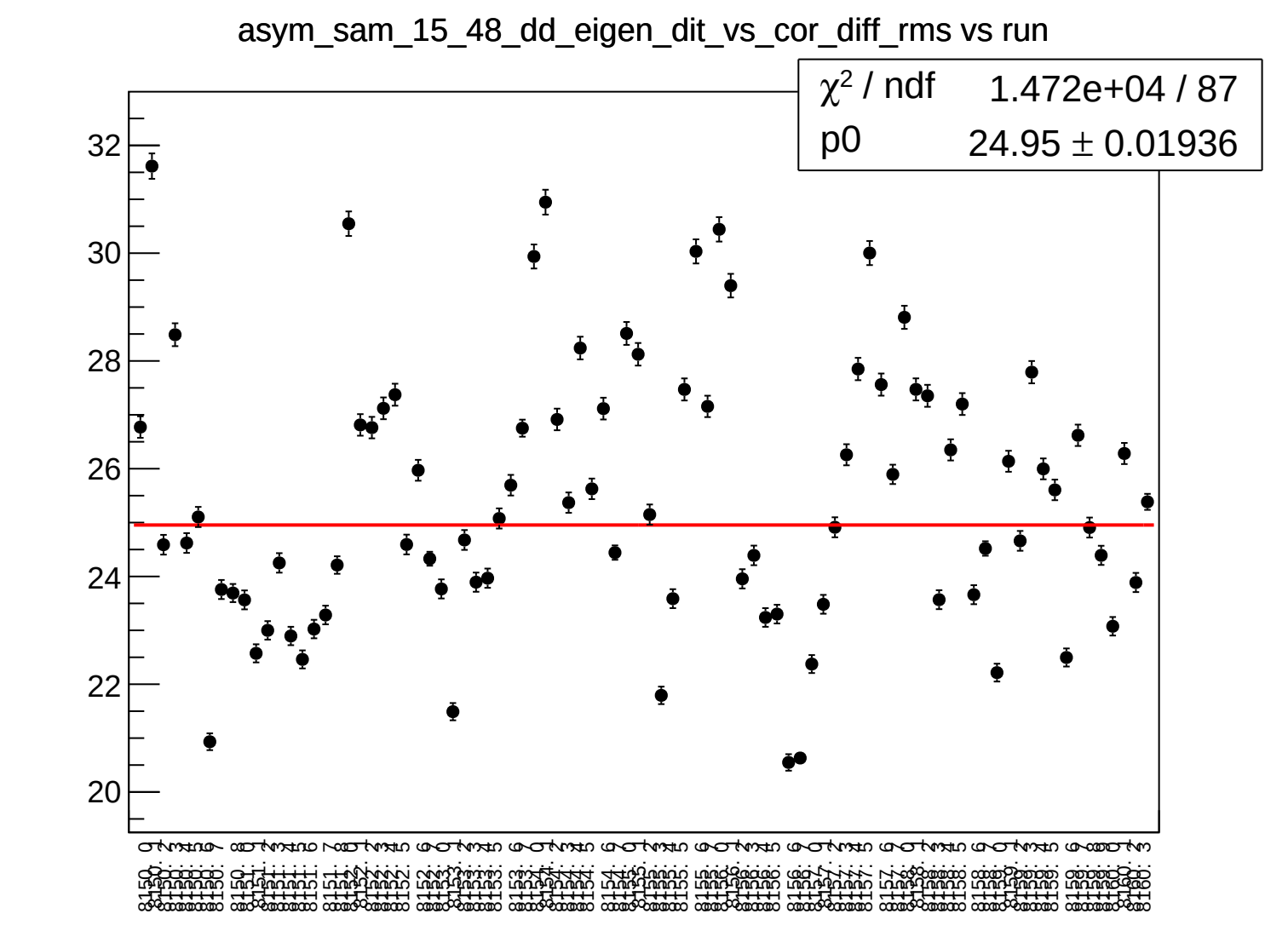

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.13 / 87
p0 0.09608 ± 0.02738
pull
Entries 88
Mean −475.4
Std Dev 0
pull1D
Entries 88
Mean 0.002503
Std Dev 0.9661

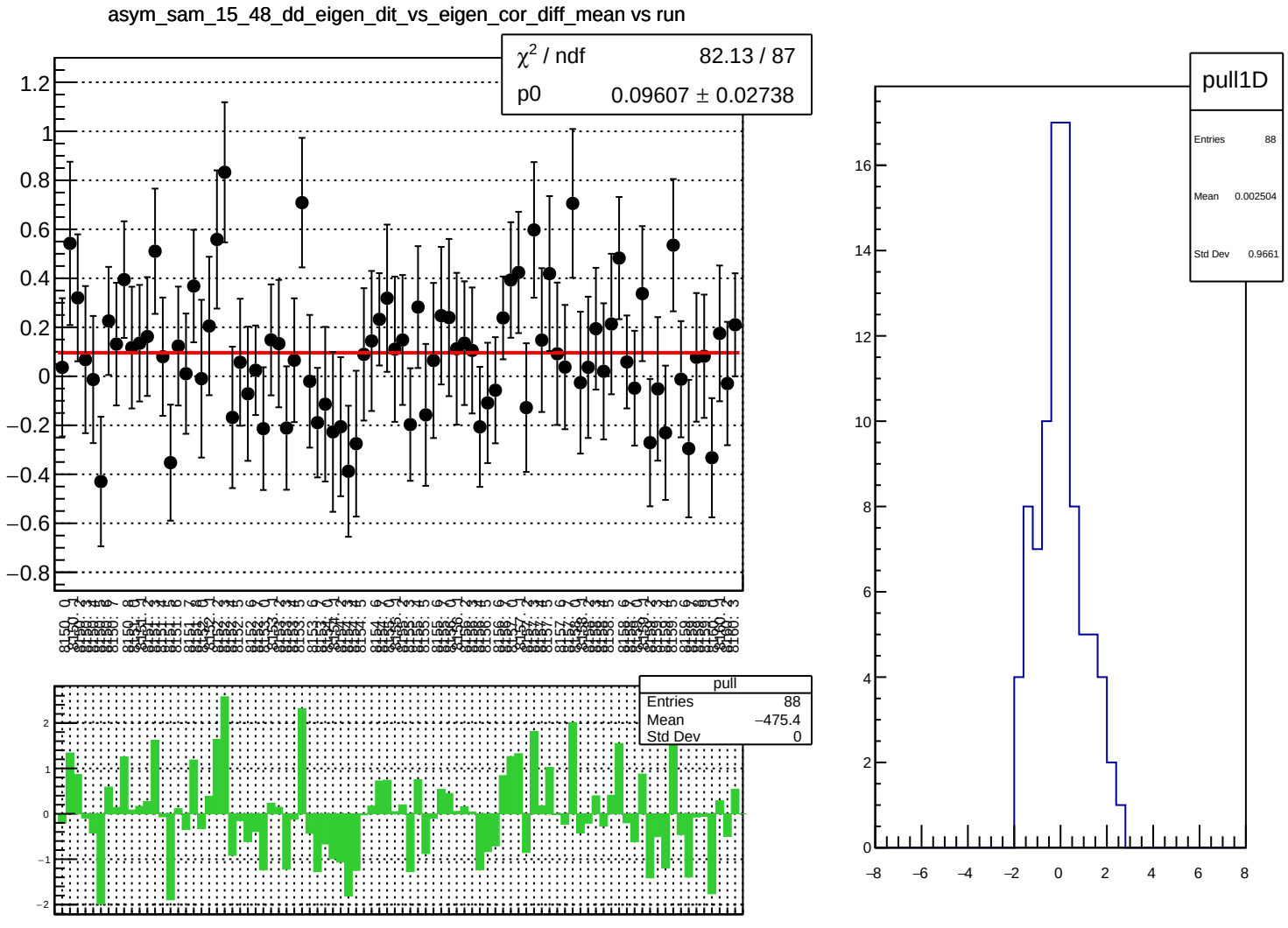

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.472e+04 / 87
p0 24.95 ± 0.01936
32
30
28
26
24
22
20

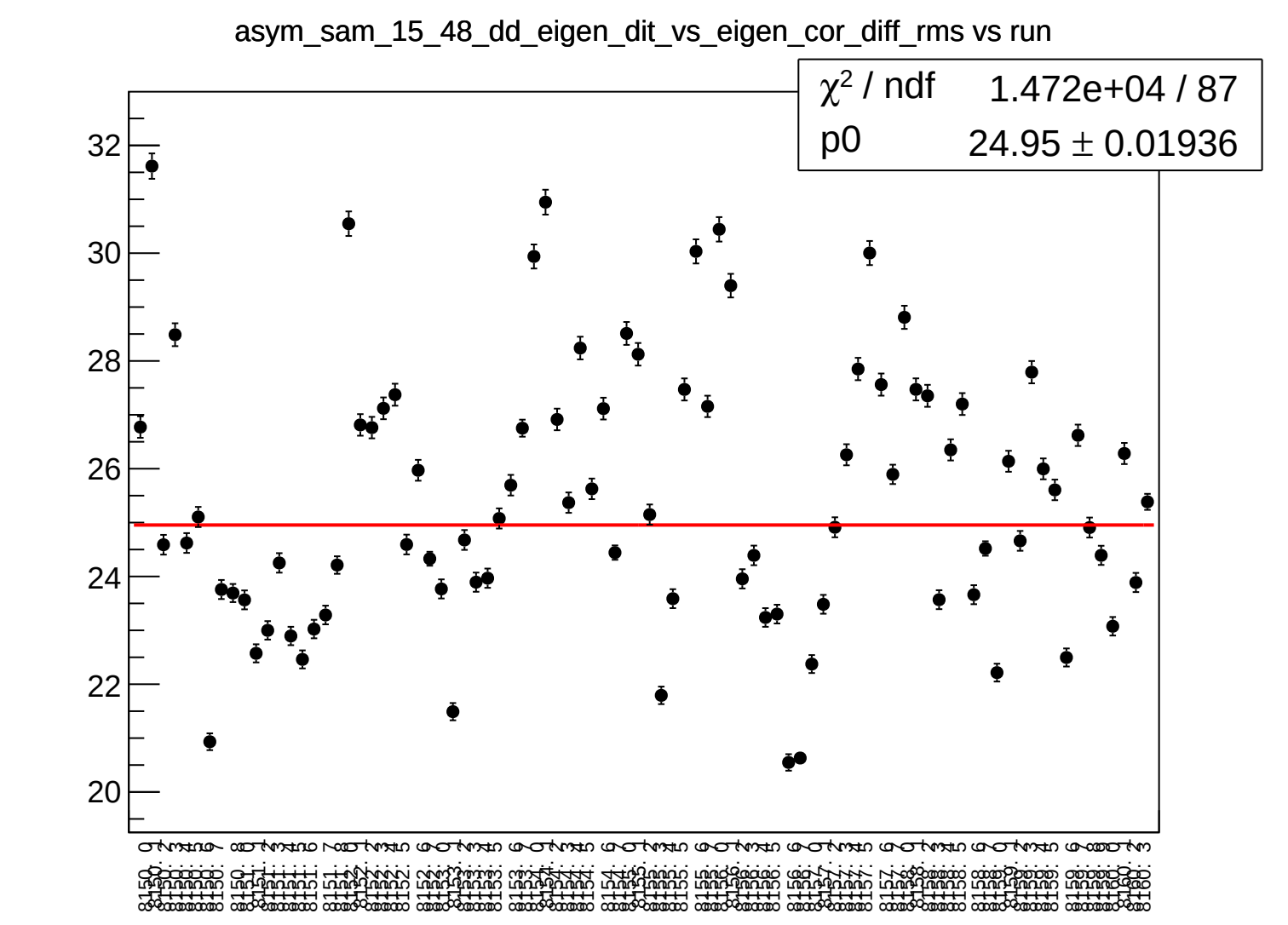

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 94.44 / 87
p0 −1.055e−05 ± 2.914e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −32.94
Std Dev 98.24
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.004199
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

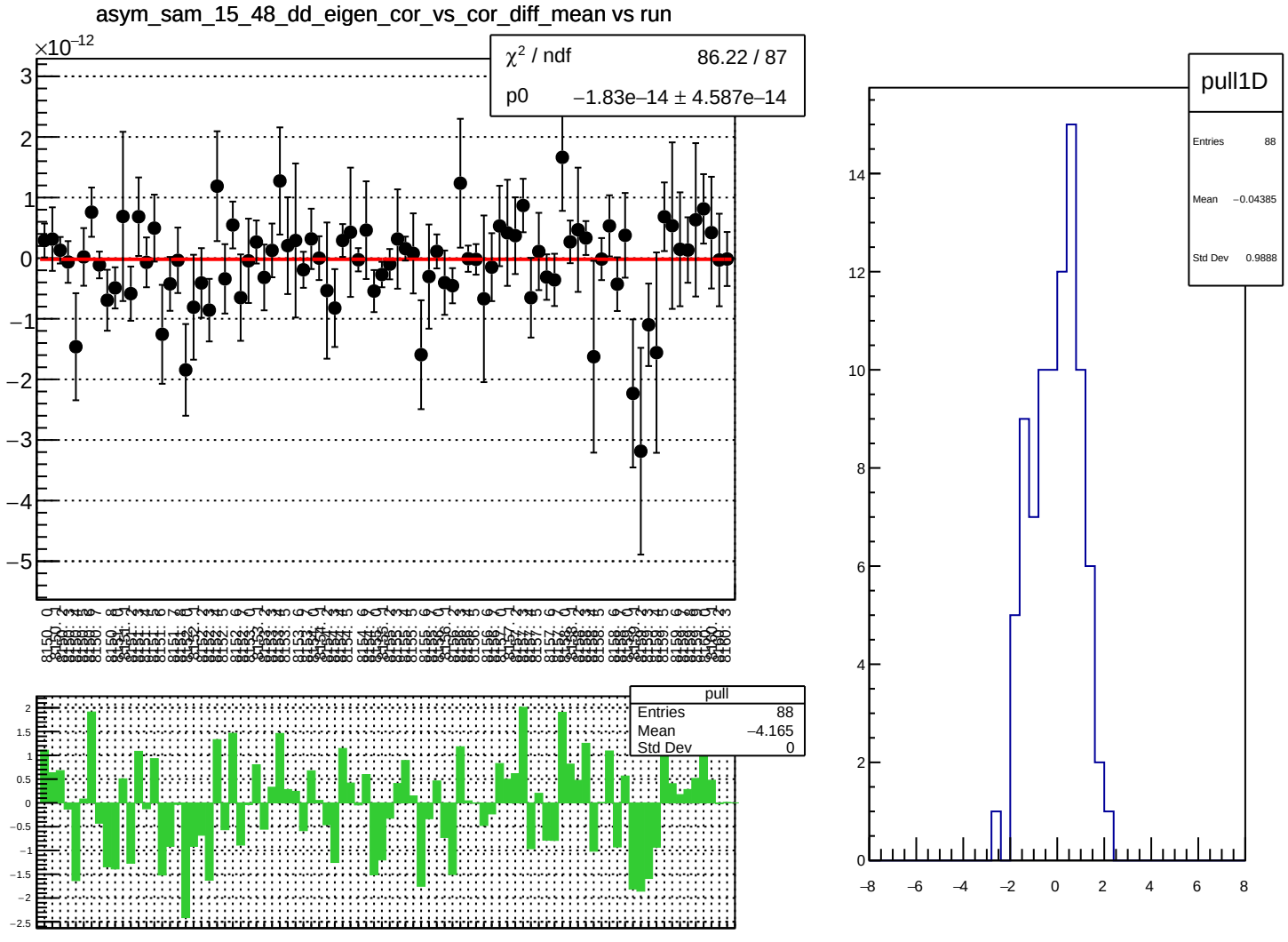

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1762 / 87
p0 0.002667 ± 2.061e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025

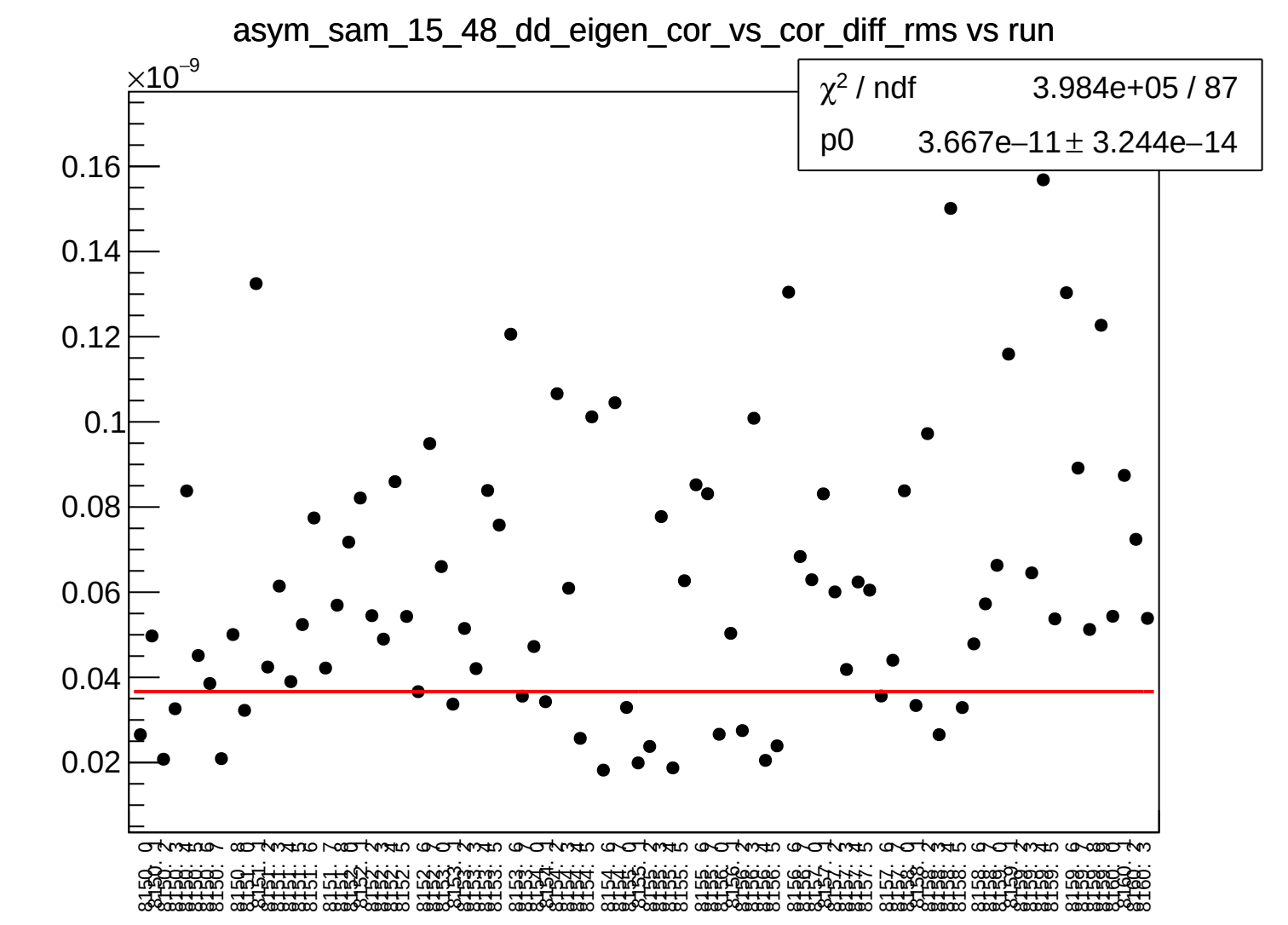

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.13 / 87
p0 0.09607 ± 0.02738
pull
Entries 88
Mean −475.4
Std Dev 0
pull1D
Entries 88
Mean 0.002504
Std Dev 0.9661

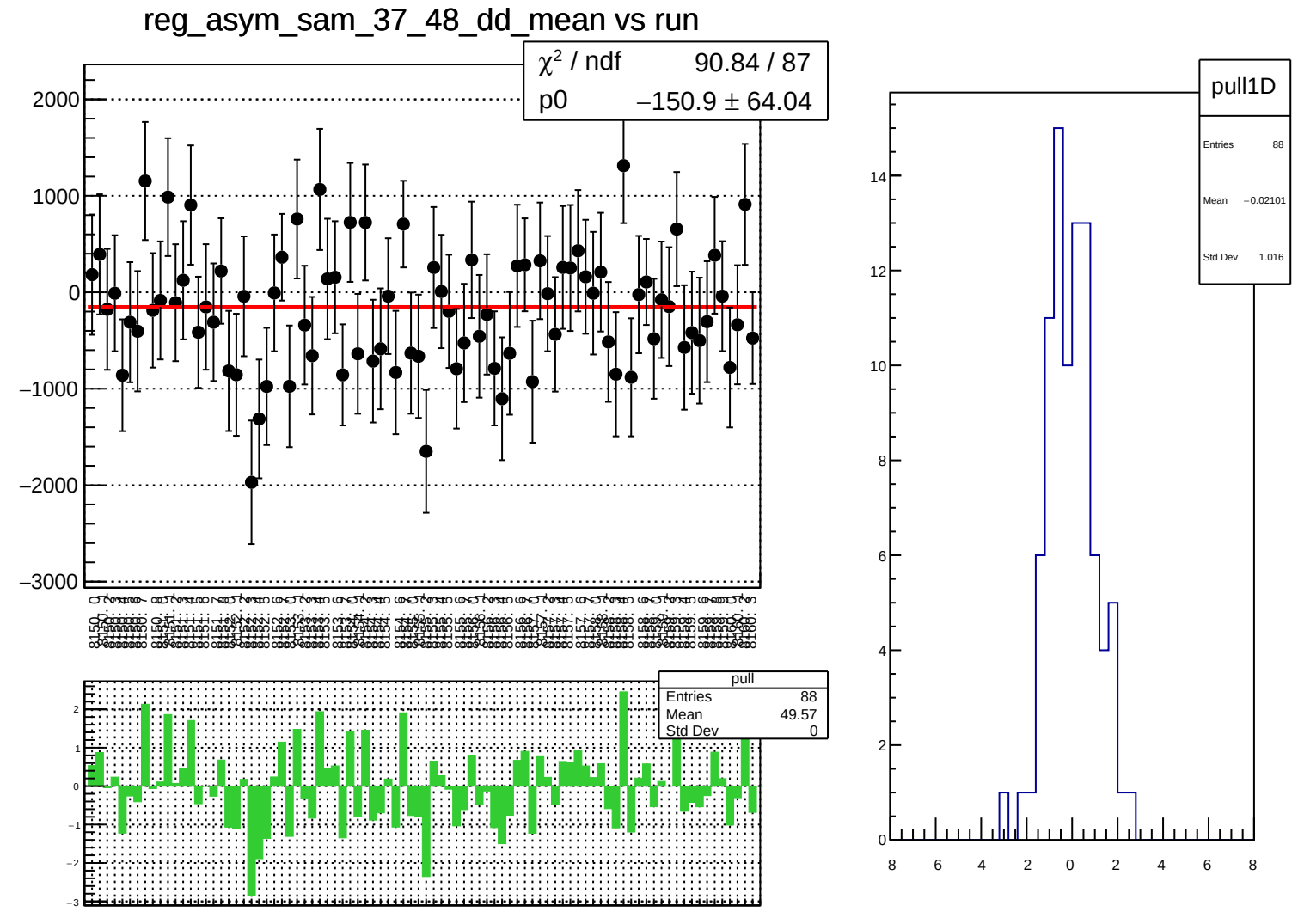

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.472e+04 / 87
p0 24.95 ± 0.01936
32
30
28
26
24
22
20

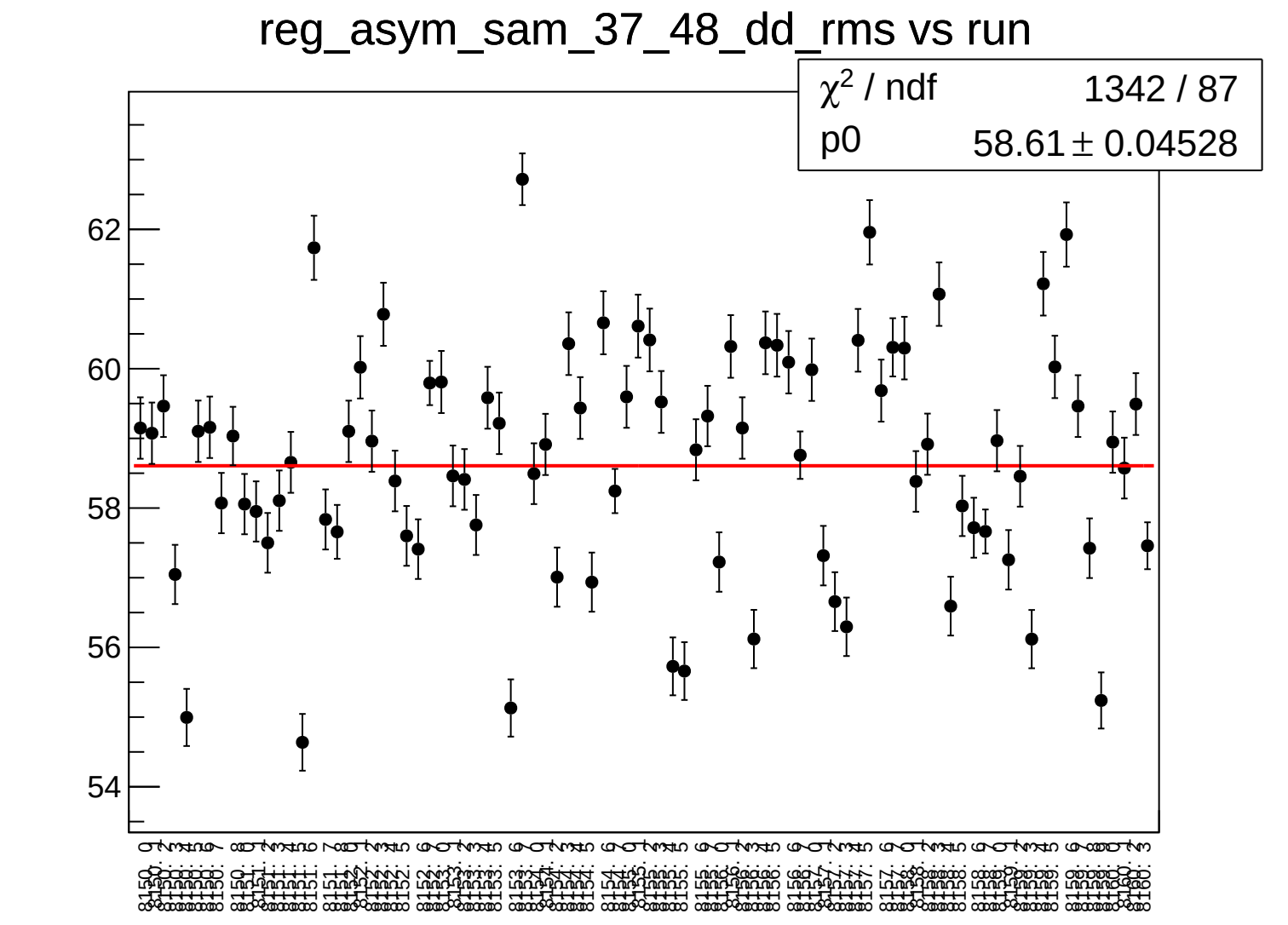

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.13 / 87
p0 0.09607 ± 0.02738
pull
Entries 88
Mean −475.4
Std Dev 0
pull1D
Entries 88
Mean 0.002504
Std Dev 0.9661

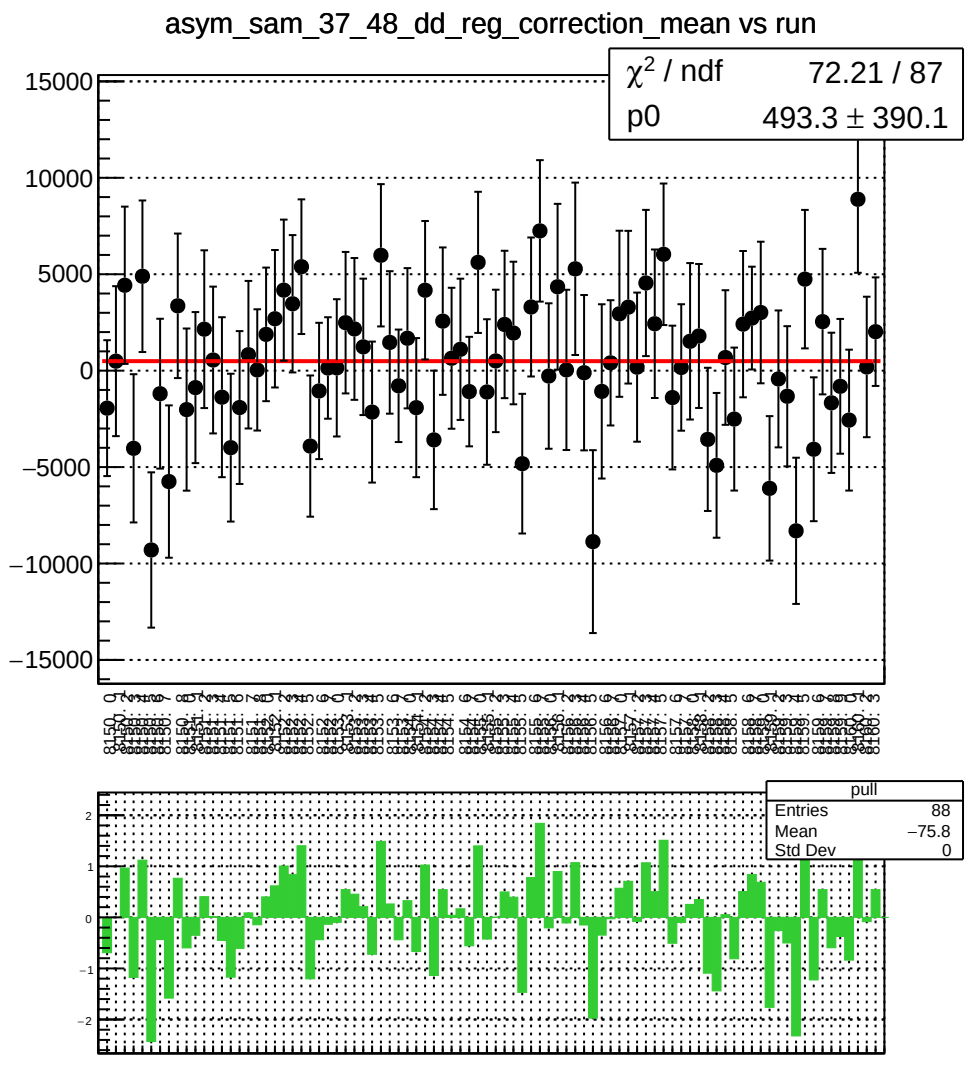

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.472e+04 / 87
p0 24.95 ± 0.01936
32
30
28
26
24
22
20

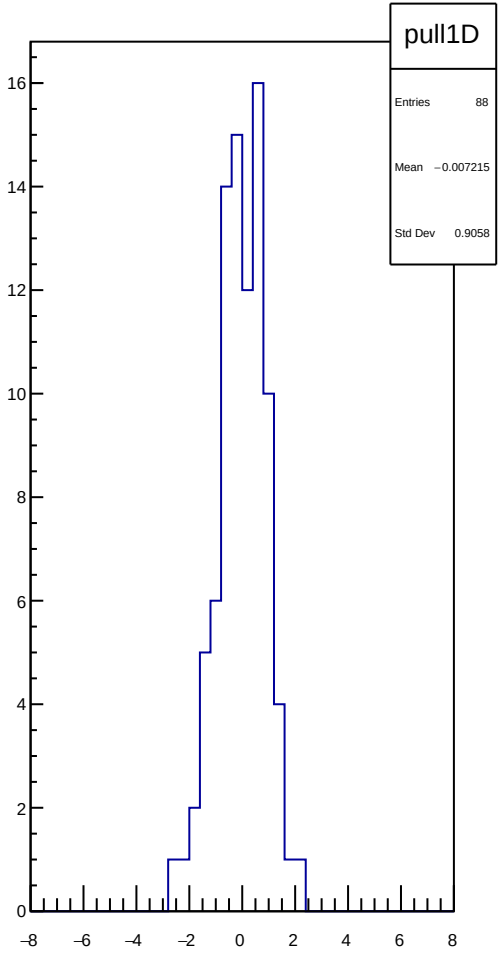

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 86.22 / 87
p0 −1.83e−14 ± 4.587e−14
pull
Entries 88
Mean −4.165
Std Dev 0
pull1D
Entries 88
Mean −0.04385
Std Dev 0.9888

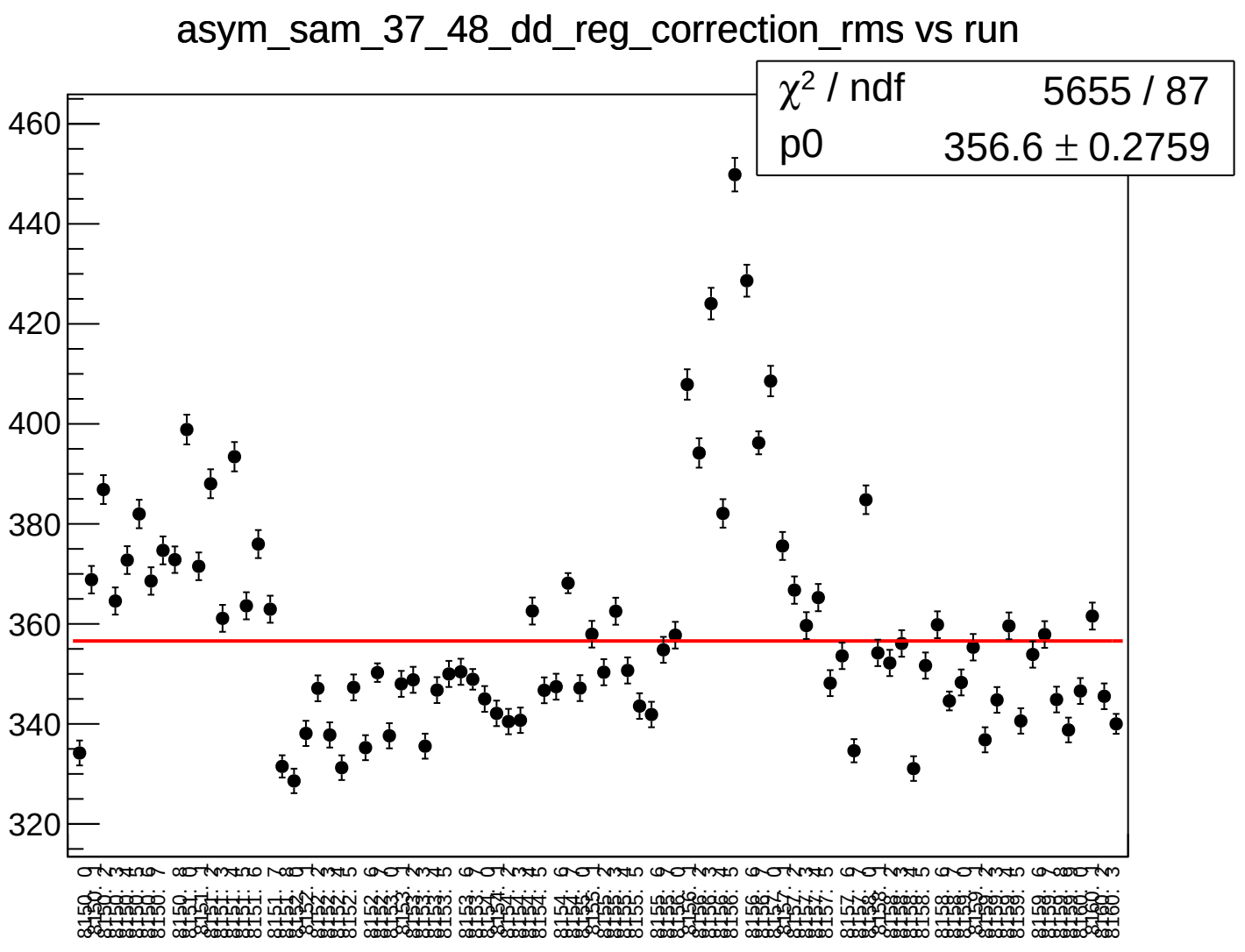

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.984e+05 / 87
p0 3.667e−11 ± 3.244e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

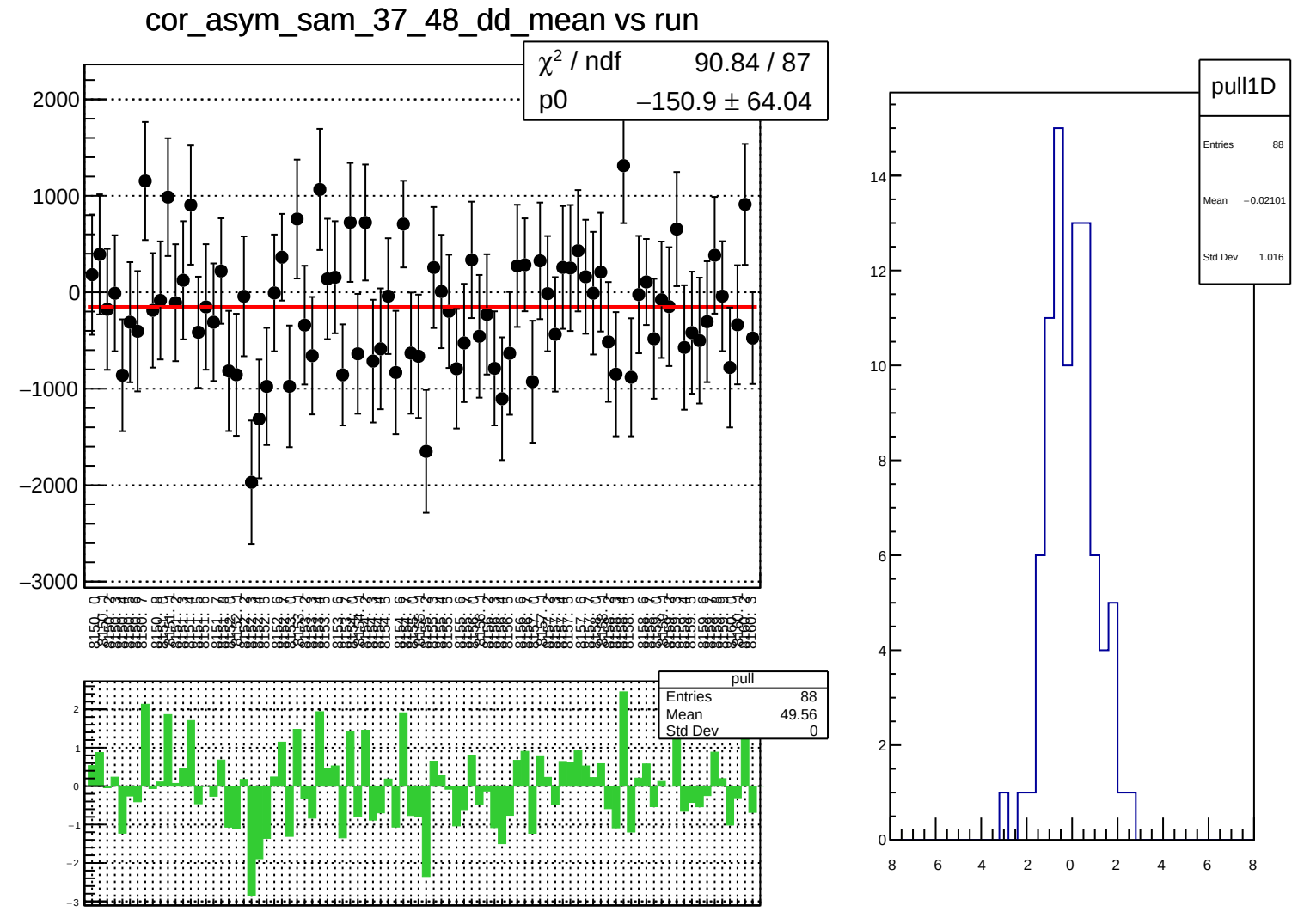

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 90.84 / 87
p0 −150.9 ± 64.04
pull
Entries 88
Mean 49.57
Std Dev 0
pull1D
Entries 88
Mean −0.02101
Std Dev 1.016

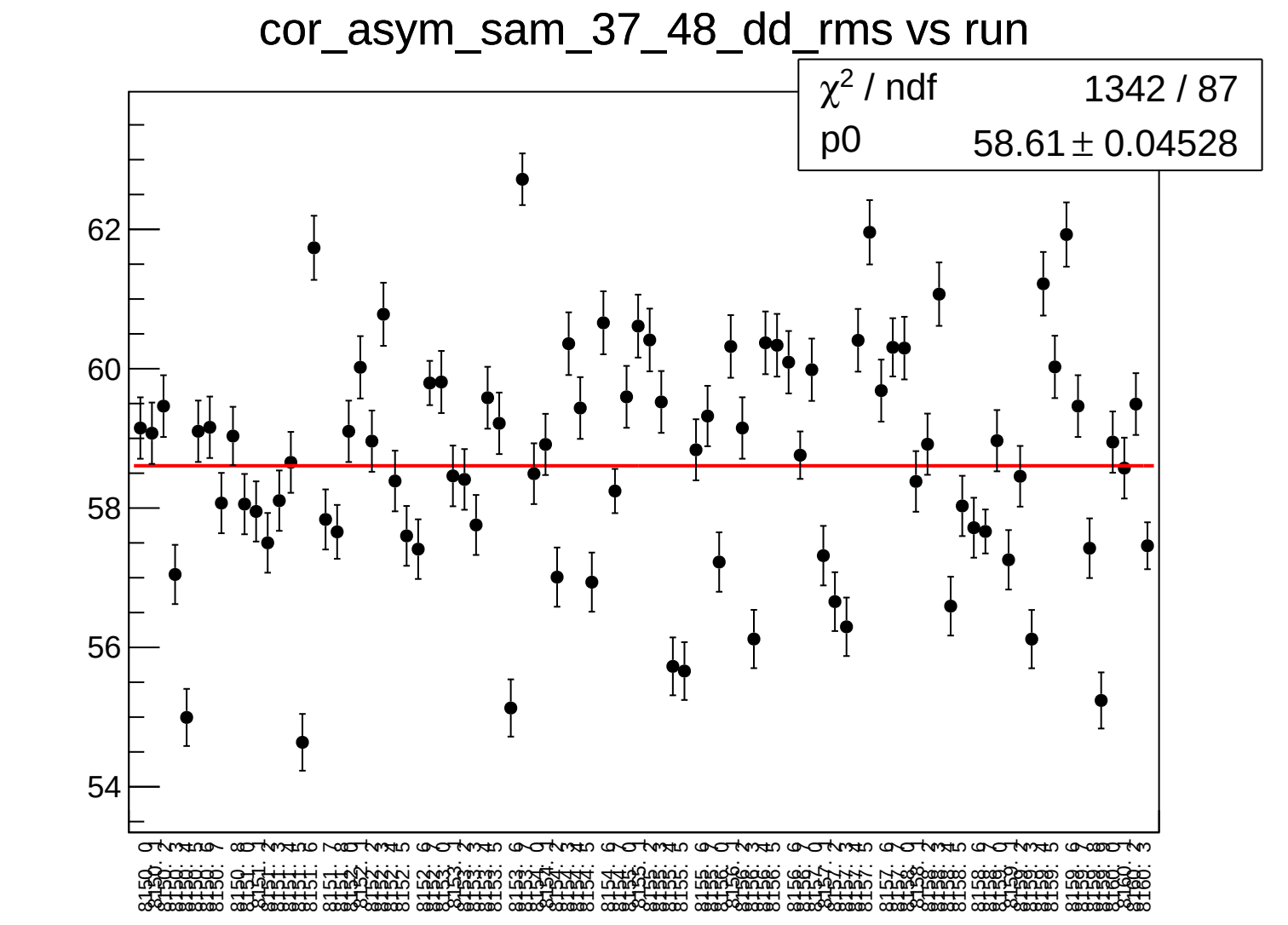

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1342 / 87
p0 58.61 ± 0.04528
62
60
58
56
54

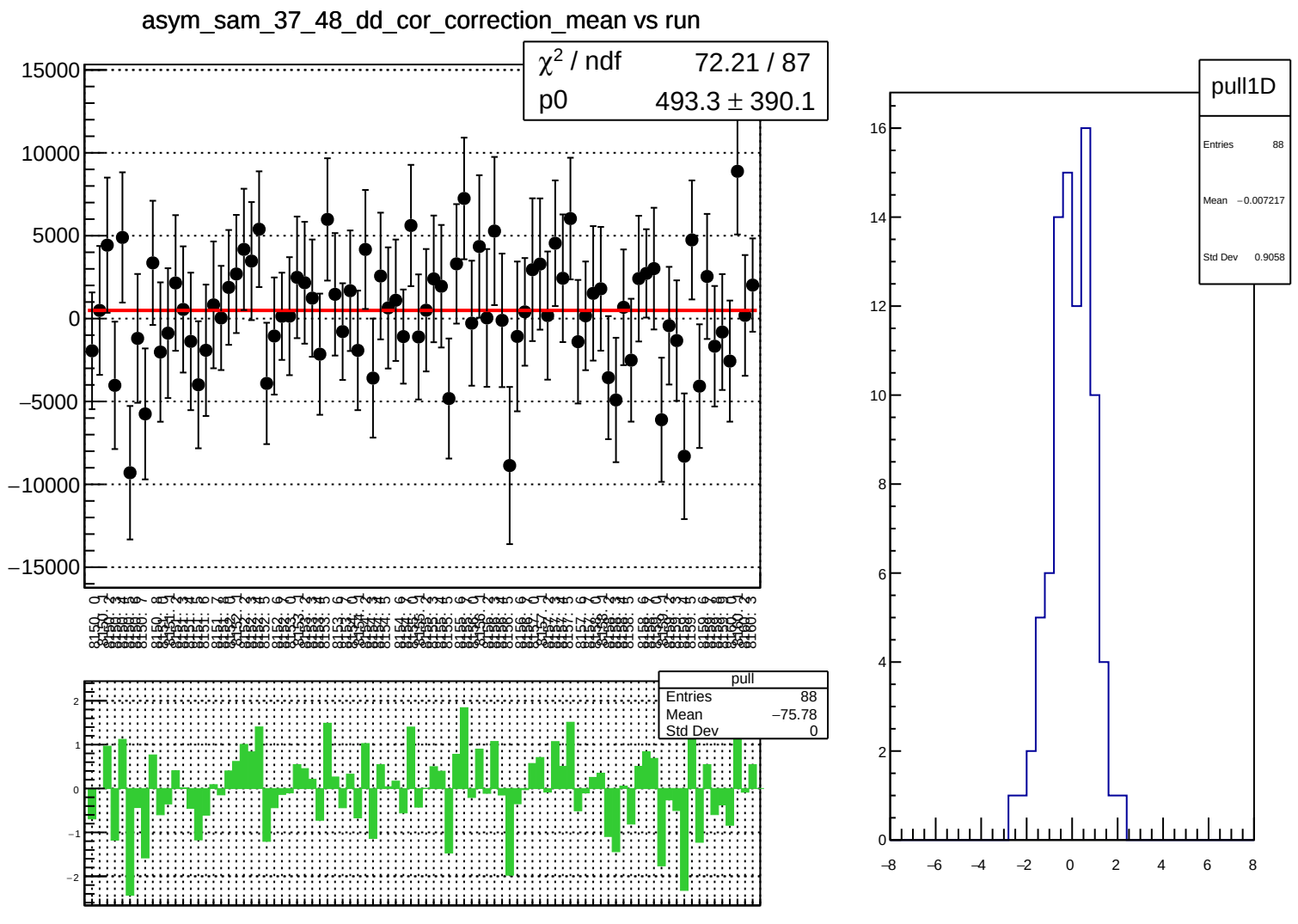

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 72.21 / 87
p0 493.3 ± 390.1
pull
Entries 88
Mean −75.8
Std Dev 0

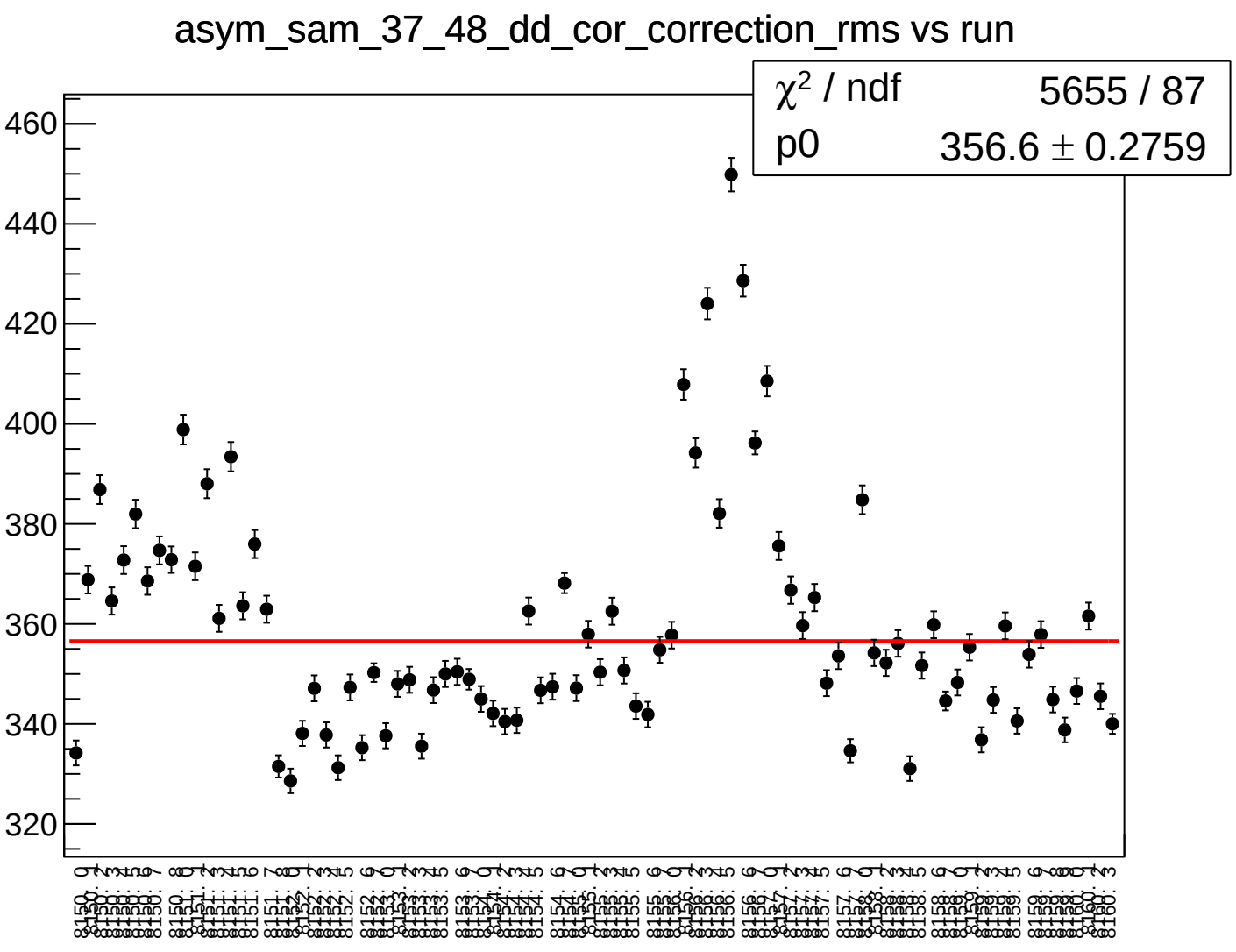

pull1D
Entries 88
Mean −0.007215
Std Dev 0.9058

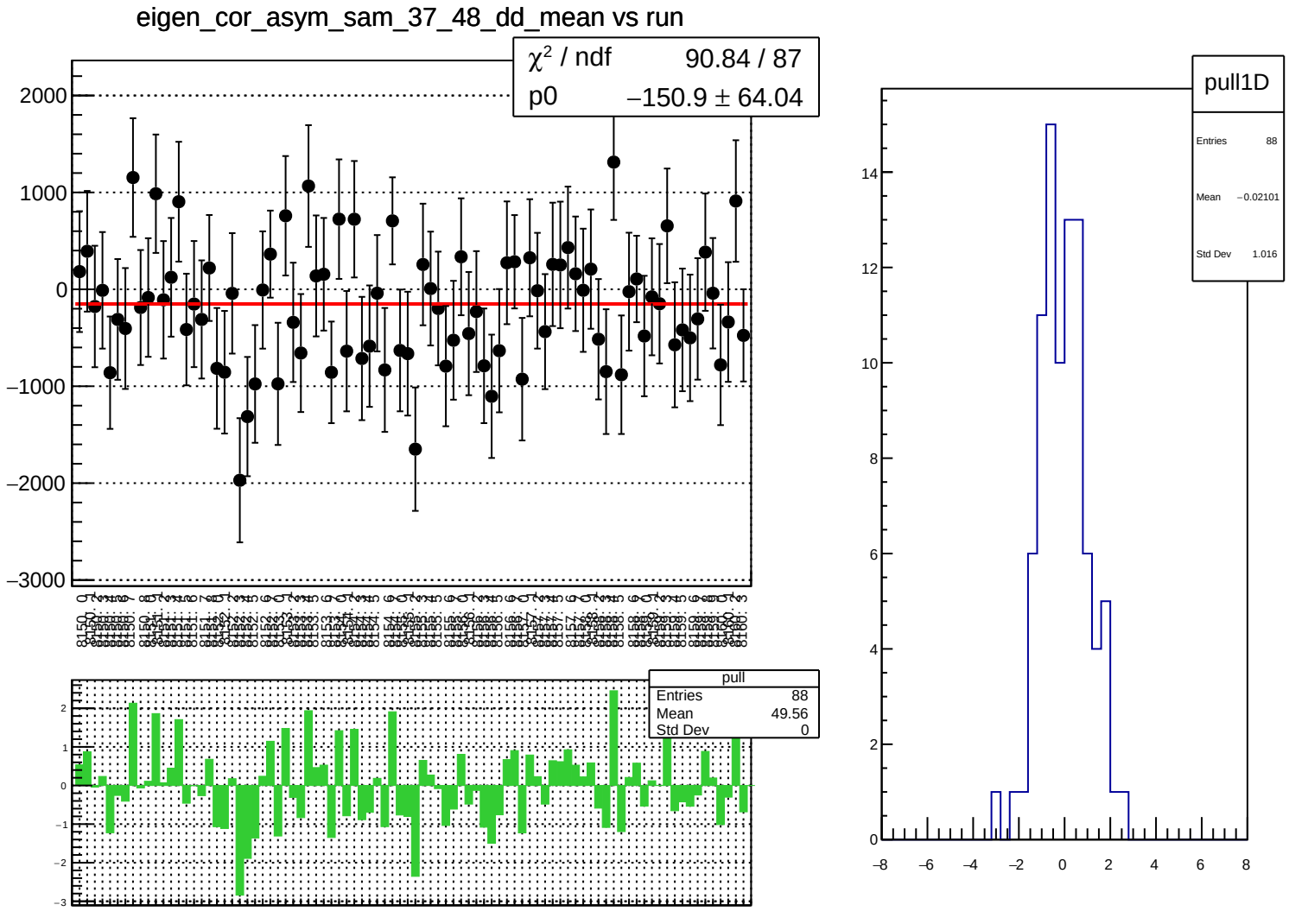

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 5655 / 87
p0 356.6 ± 0.2759
460
440
420
400
380
360
340
320

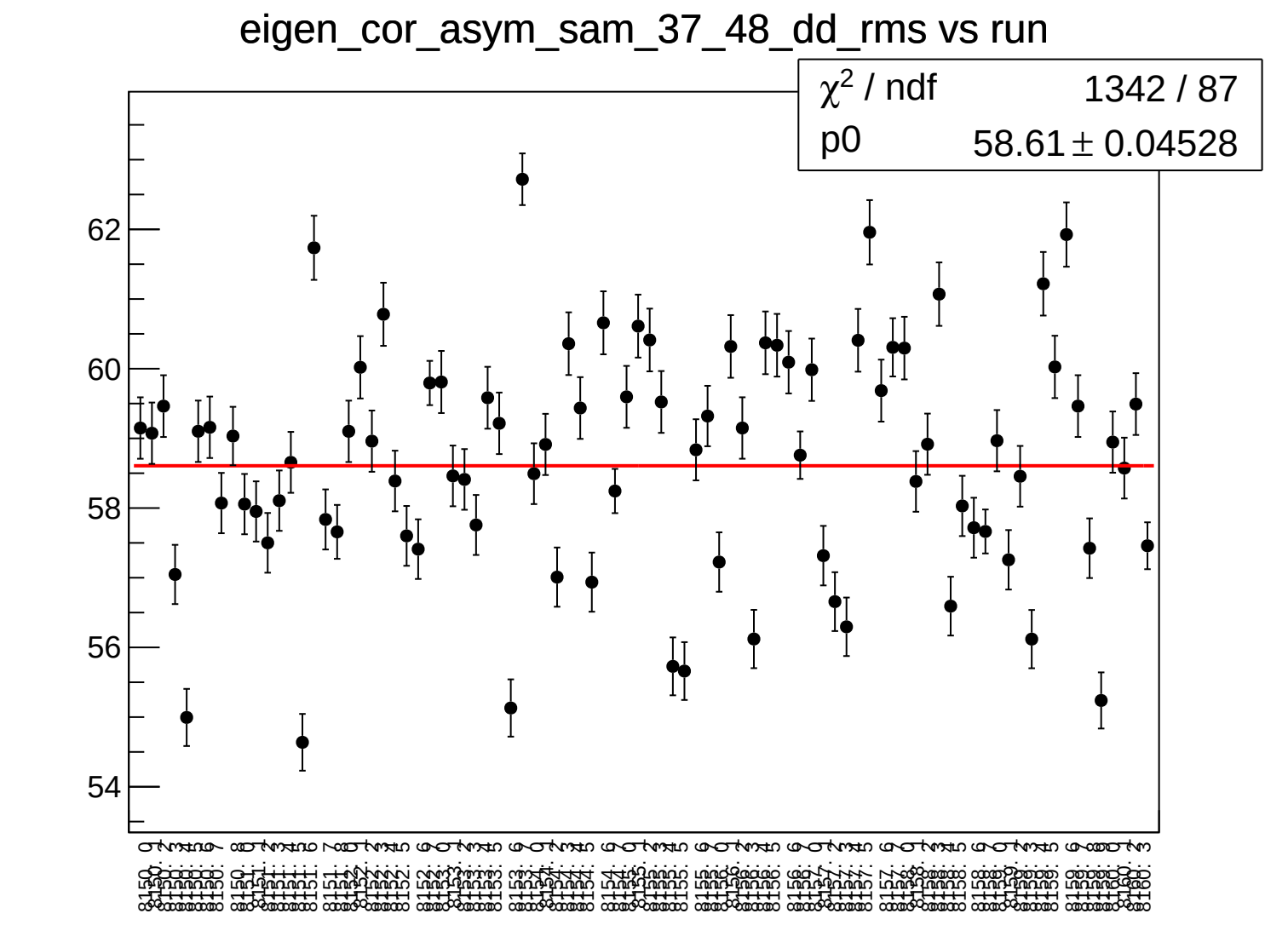

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 90.84 / 87
p0 −150.9 ± 64.04
pull
Entries 88
Mean 49.56
Std Dev 0
pull1D
Entries 88
Mean −0.02101
Std Dev 1.016

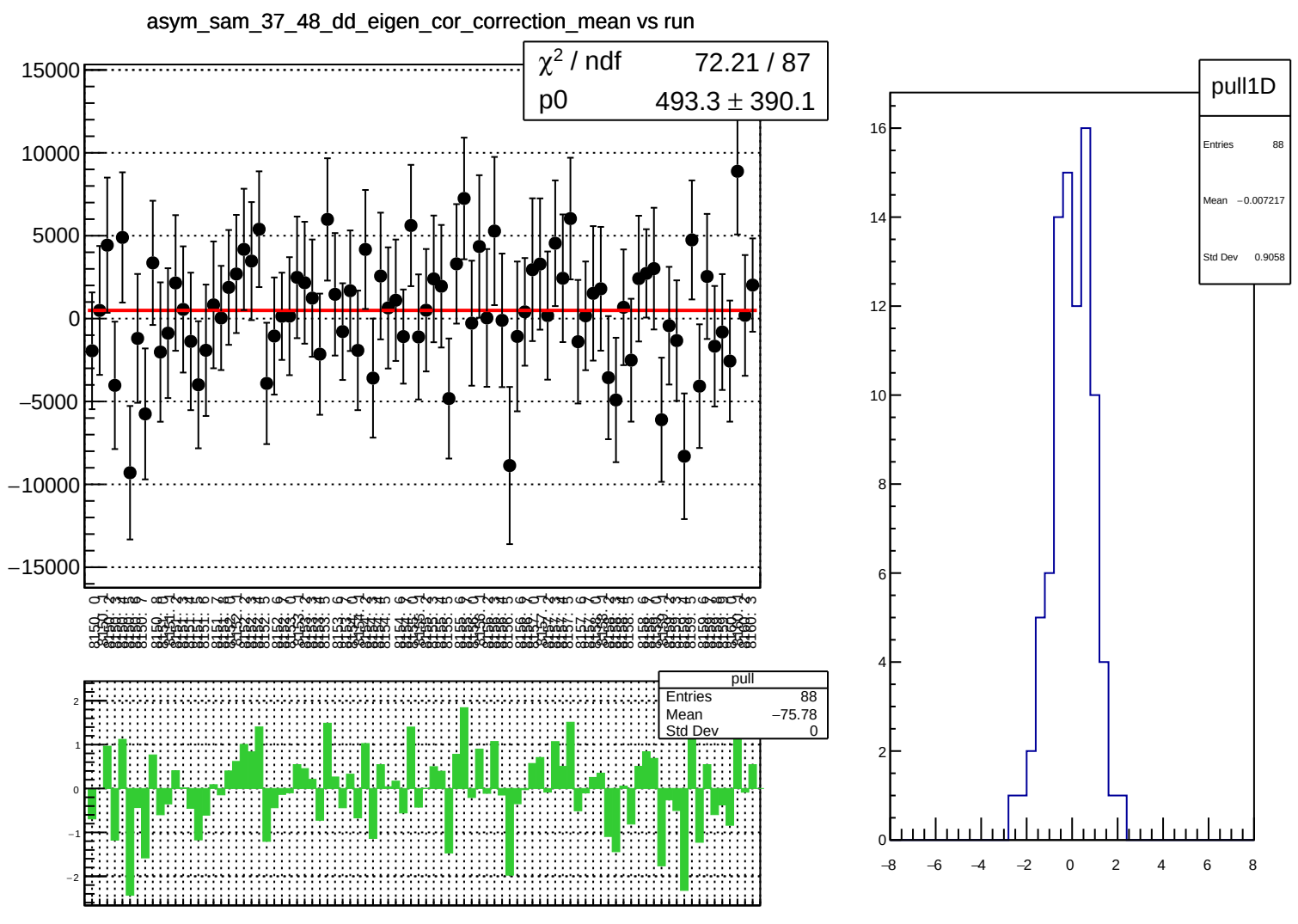

cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1342 / 87
p0 58.61 ± 0.04528
62
60
58
56
54

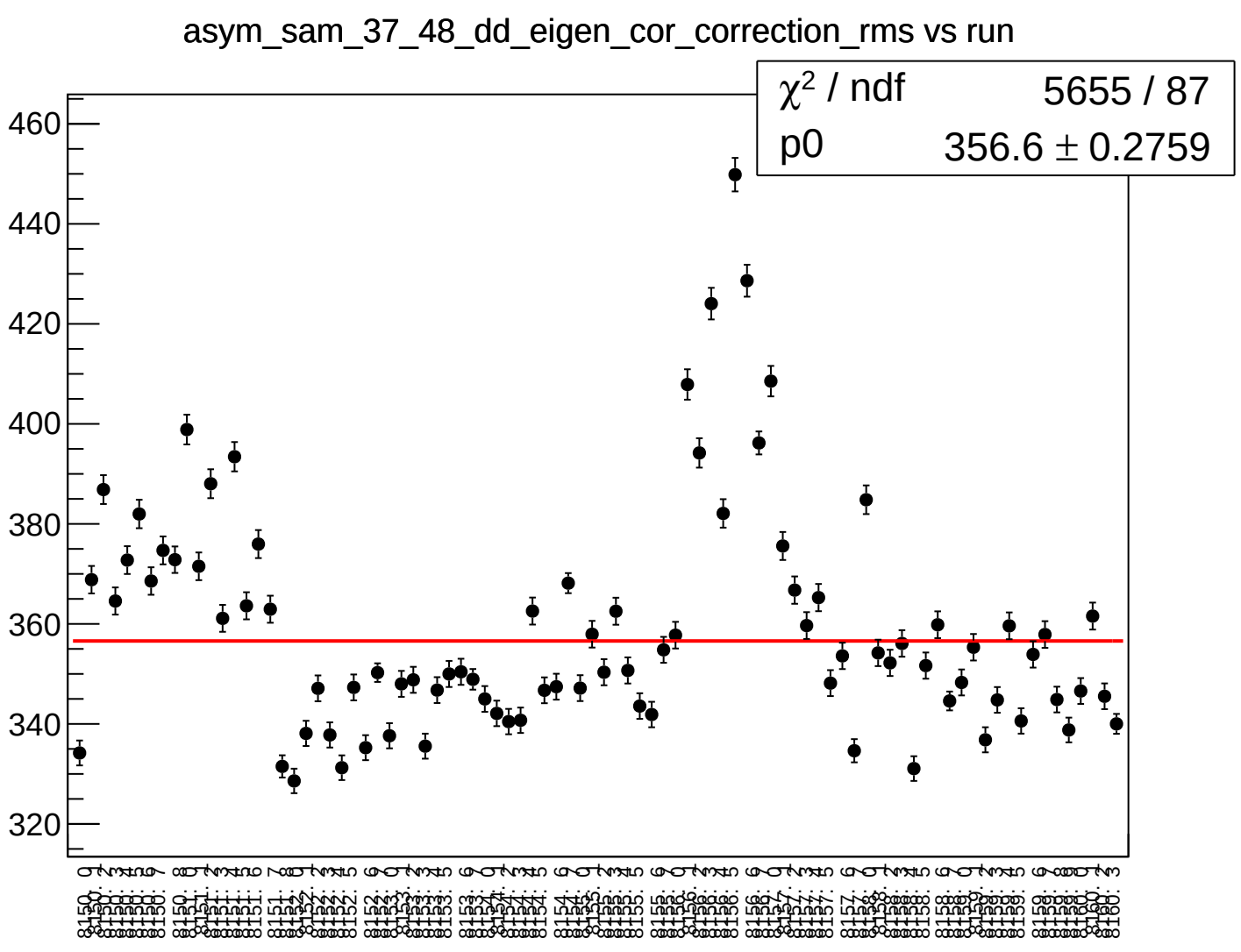

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 72.21 / 87
p0 493.3 ± 390.1
pull
Entries 88
Mean −75.78
Std Dev 0
pull1D
Entries 88
Mean −0.007217
Std Dev 0.9058

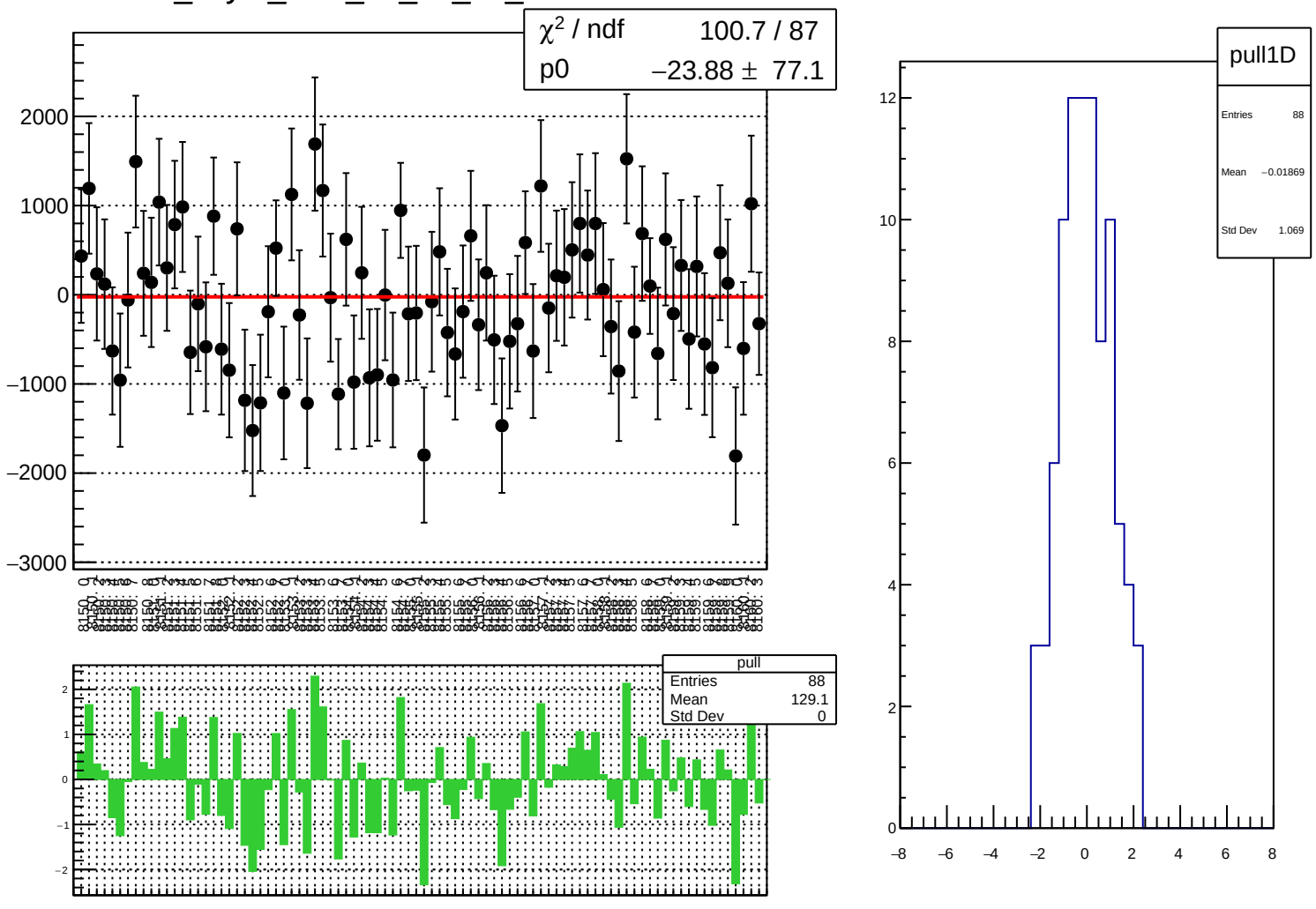

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 5655 / 87
p0 356.6 ± 0.2759
460
440
420
400
380
360
340
320

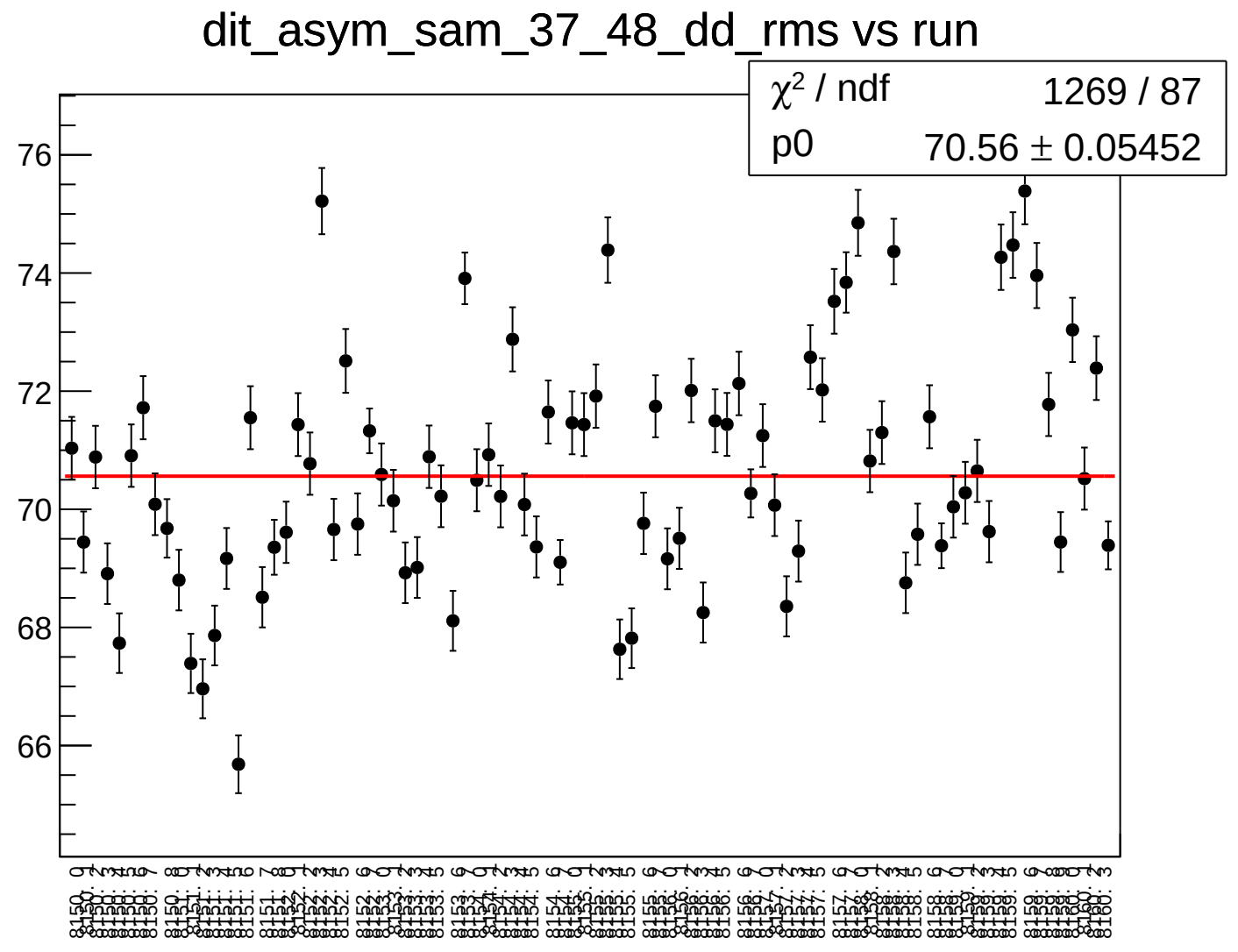

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 90.84 / 87
p0 −150.9 ± 64.04
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 49.56
Std Dev 0
pull1D
Entries 88
Mean −0.02101
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

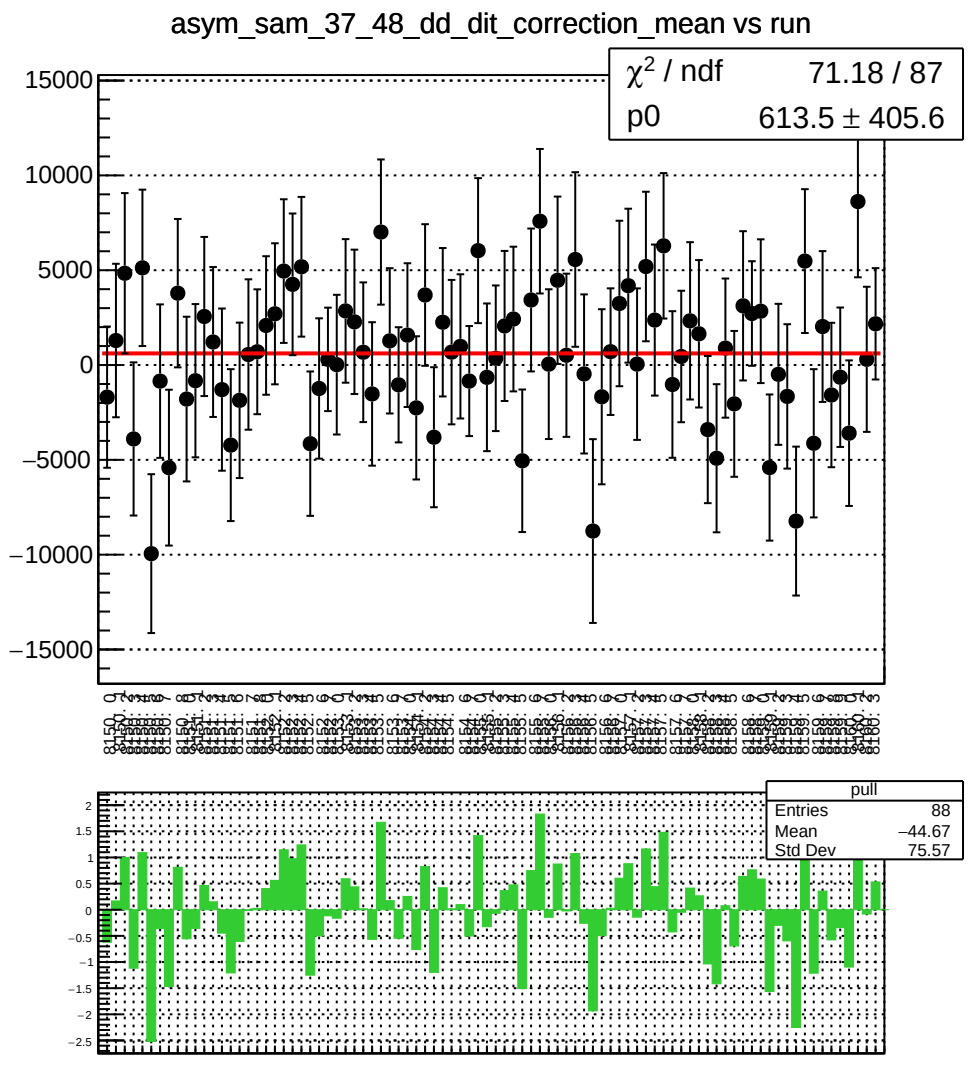

eigen_cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1342 / 87
p0 58.61 ± 0.04528
62
60
58
56
54

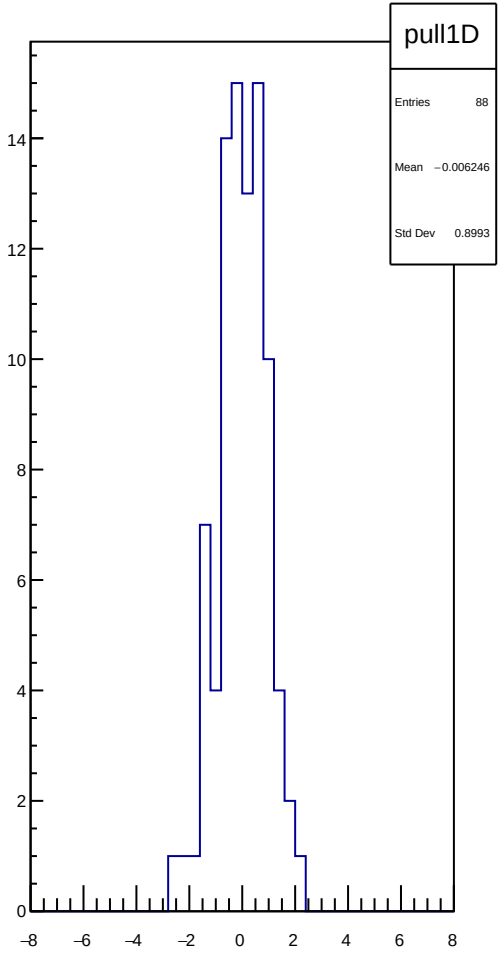

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.21 / 87
p0 493.3 ± 390.1
pull
Entries 88
Mean −75.78
Std Dev 0
pull1D
Entries 88
Mean −0.007217
Std Dev 0.9058

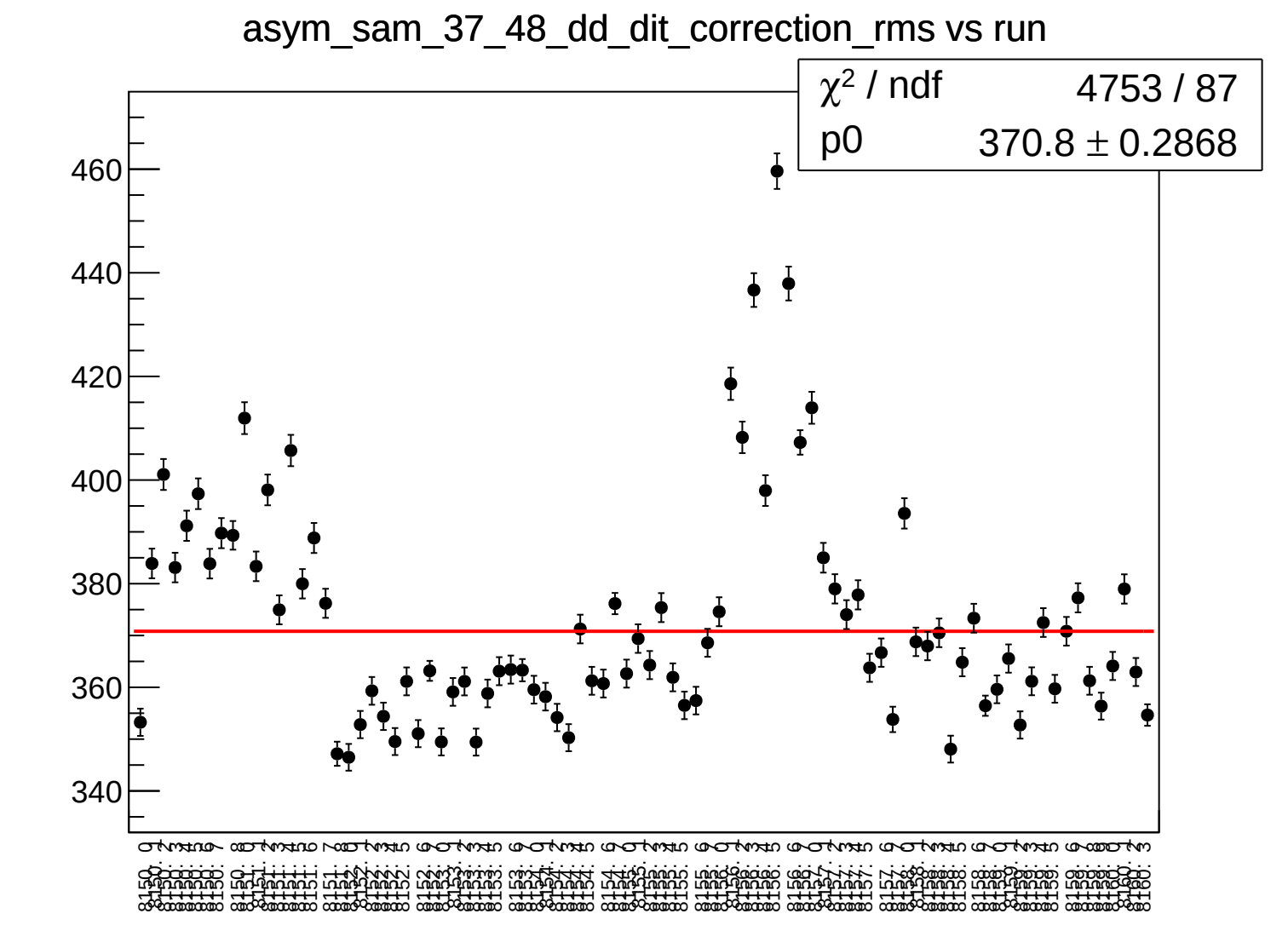

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5655 / 87
p0 356.6 ± 0.2759
460
440
420
400
380
360
340
320

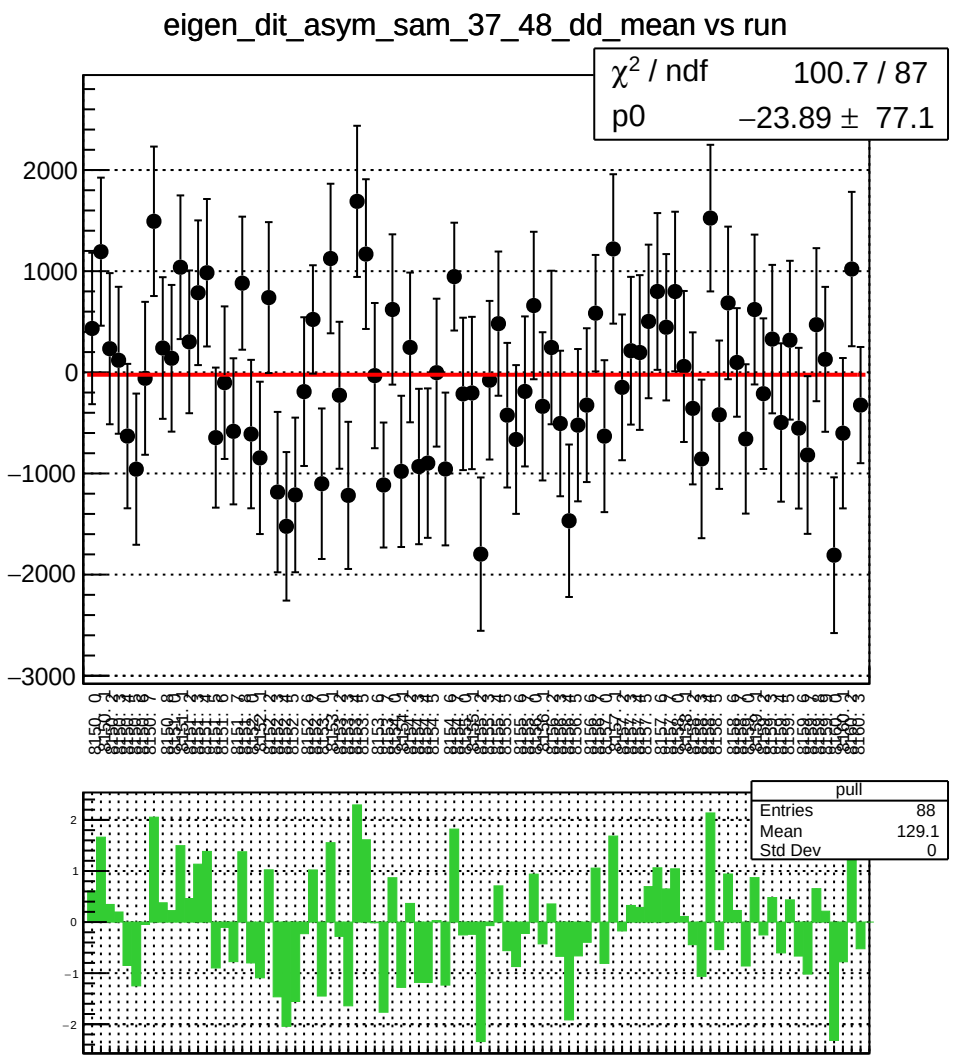

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 100.7 / 87
p0 −23.88 ± 77.1
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 129.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01869
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

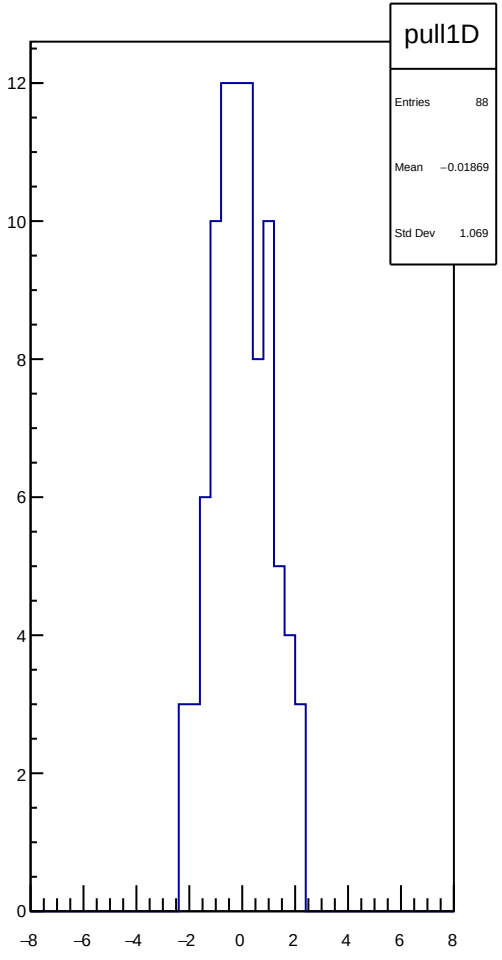

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1269 / 87
p0 70.56 ± 0.05452
76
74
72
70
68
66

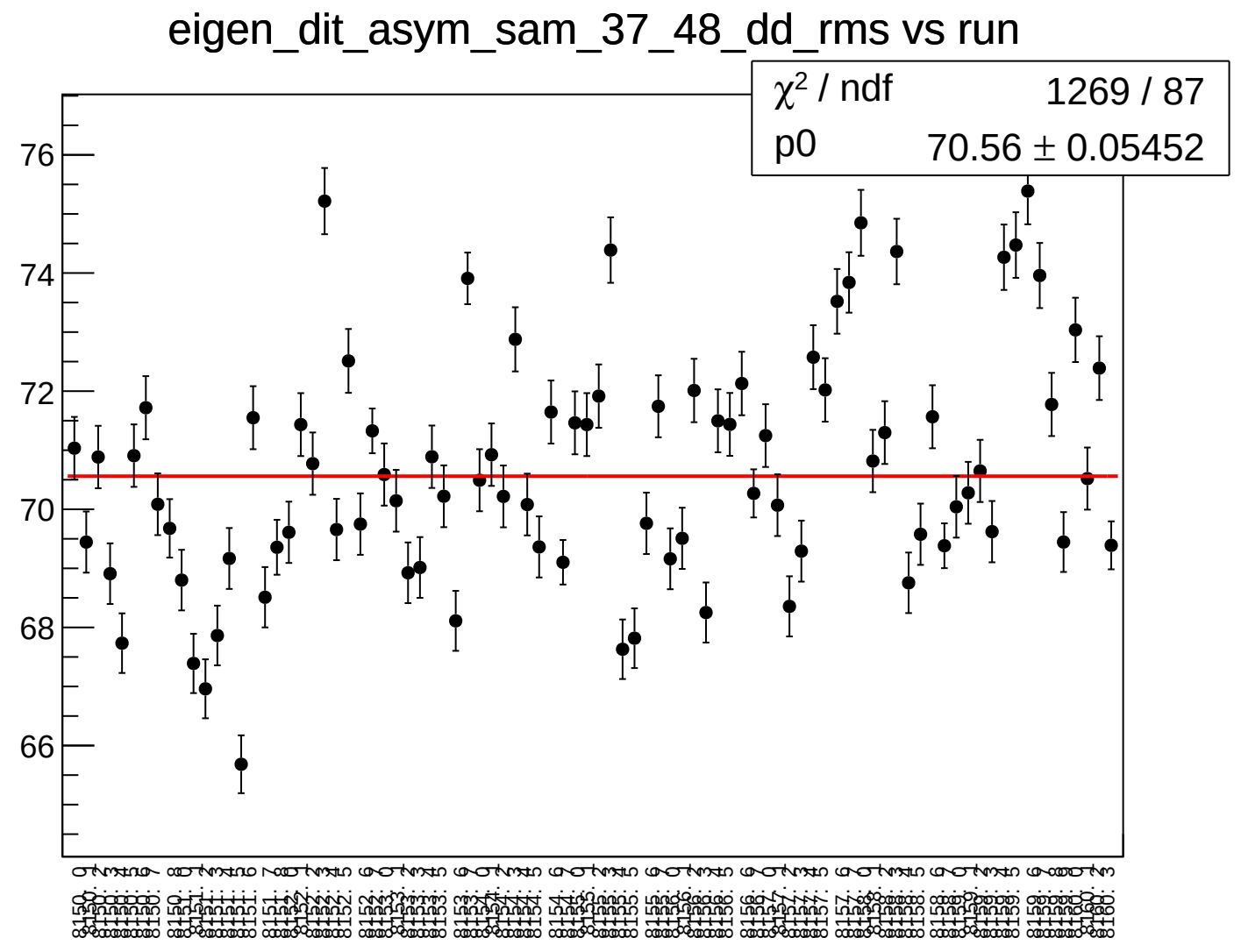

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 71.18 / 87
p0 613.5 ± 405.6
pull
Entries 88
Mean −44.67
Std Dev 75.57

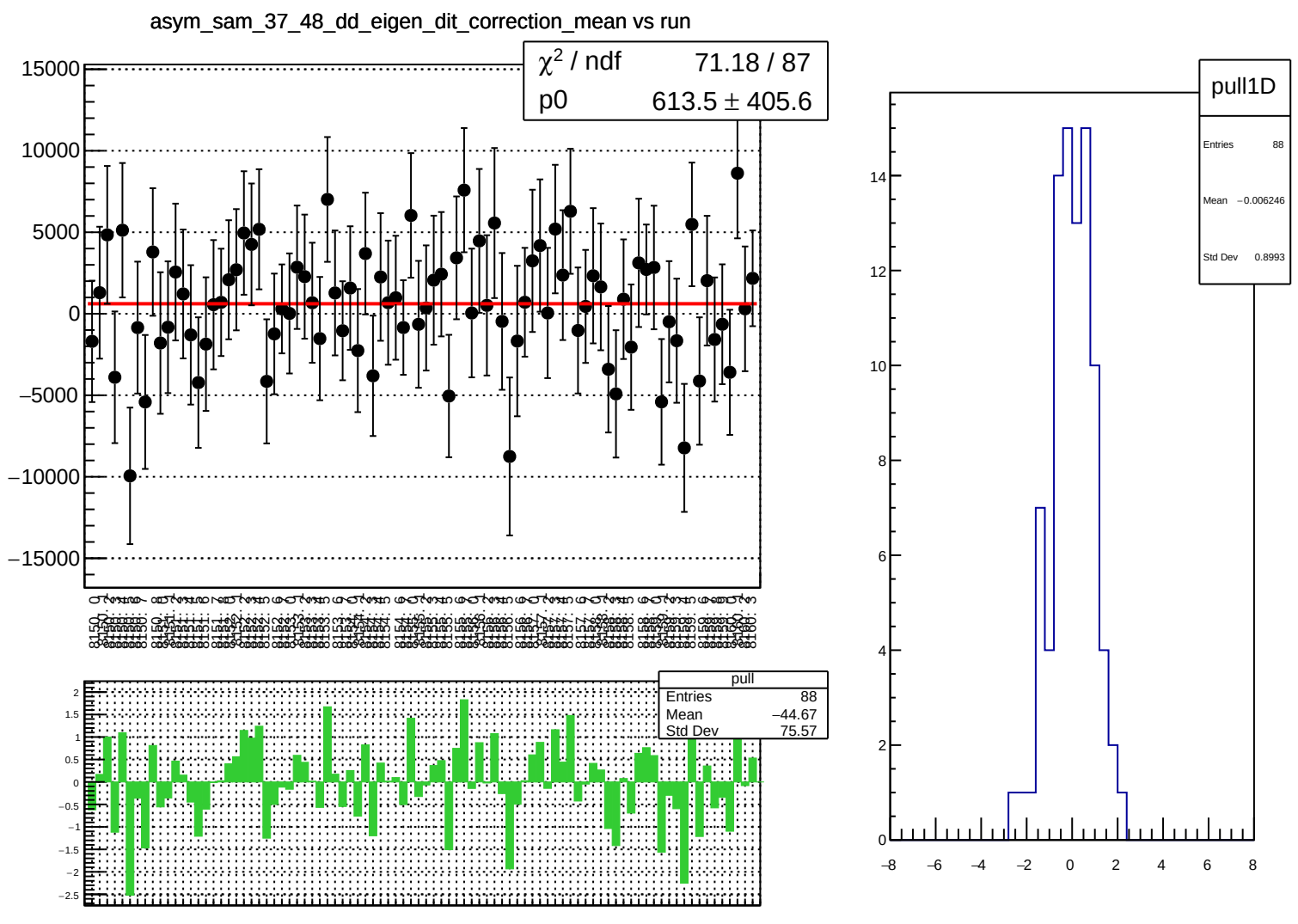

pull1D
Entries 88
Mean −0.006246
Std Dev 0.8993

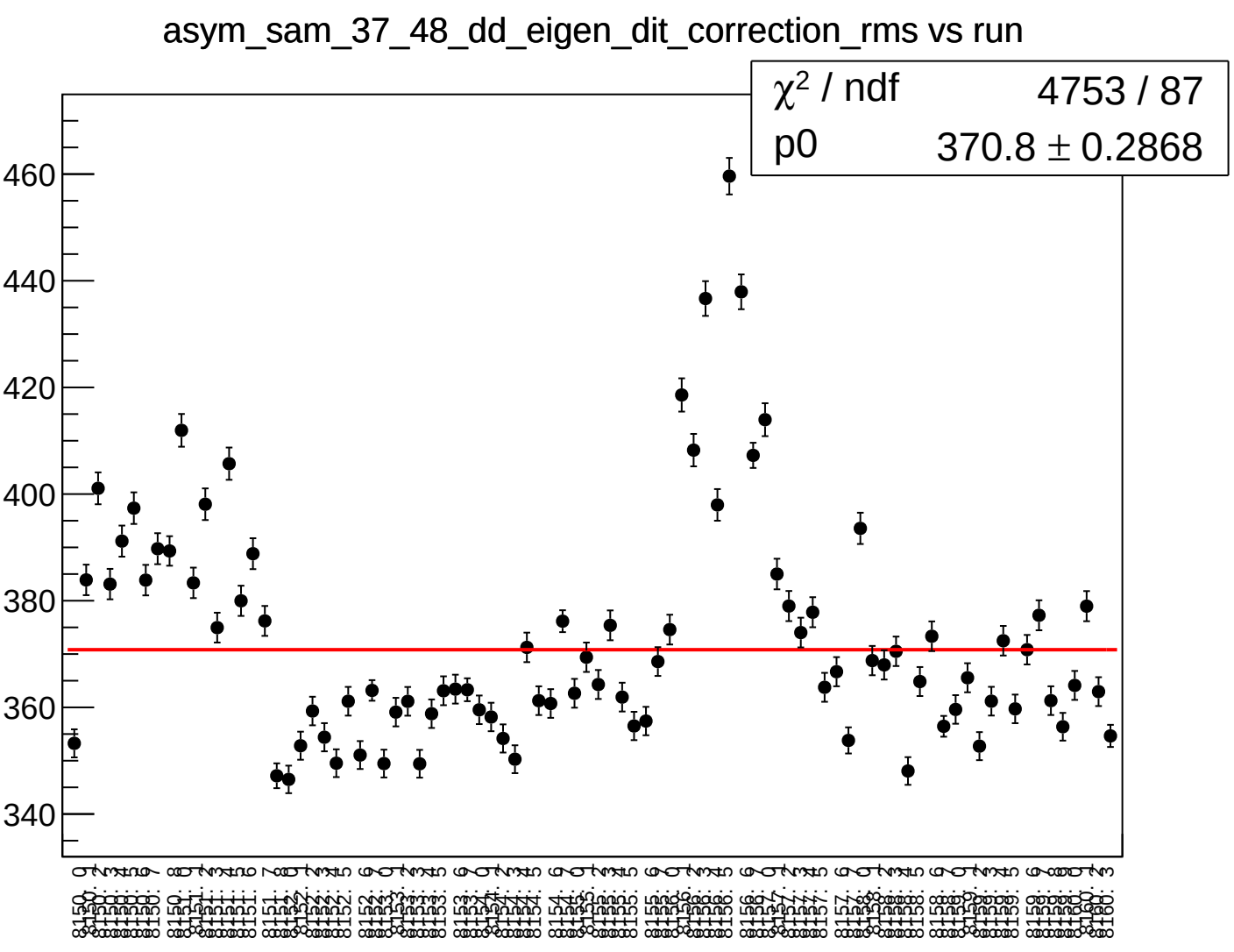

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 4753 / 87
p0 370.8 ± 0.2868
460
440
420
400
380
360
340

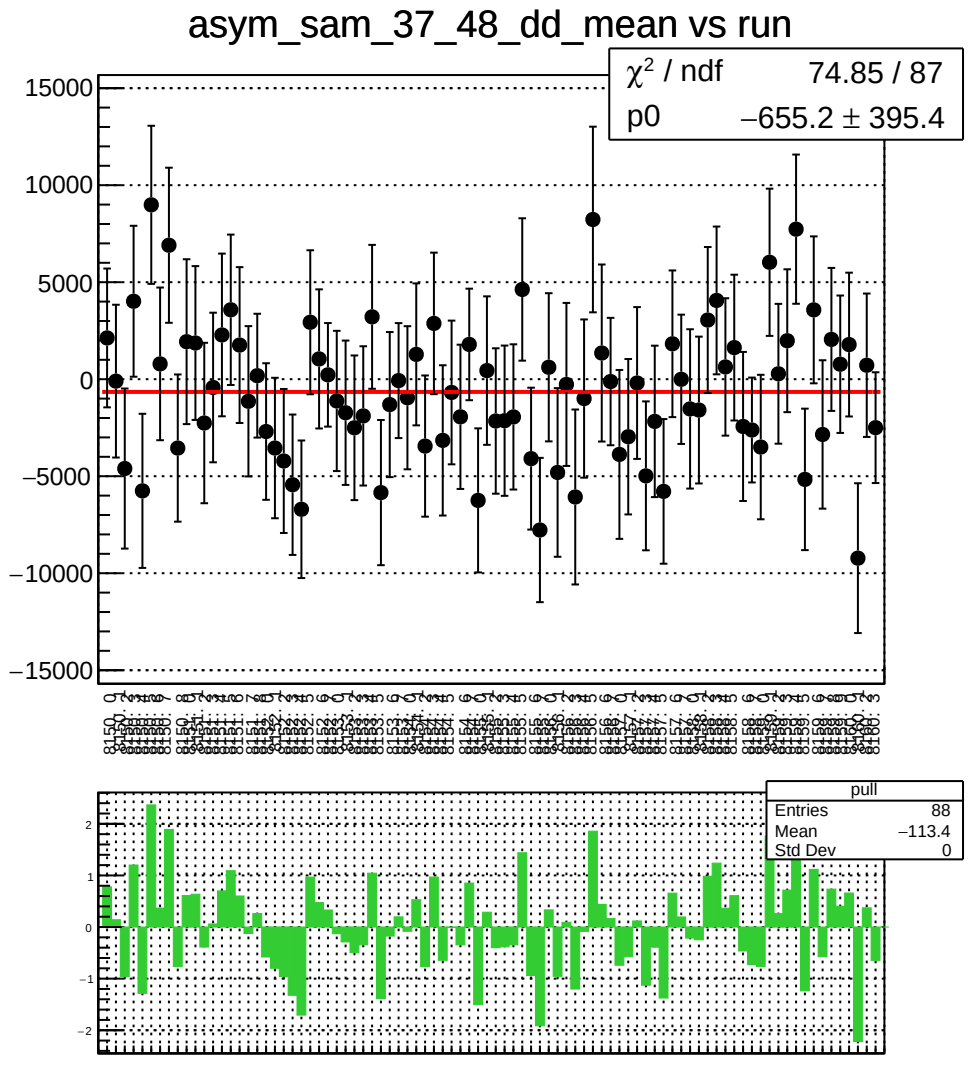

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 100.7 / 87
p0 −23.89 ± 77.1
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 129.1
Std Dev 0
2
1
0
−1
−2

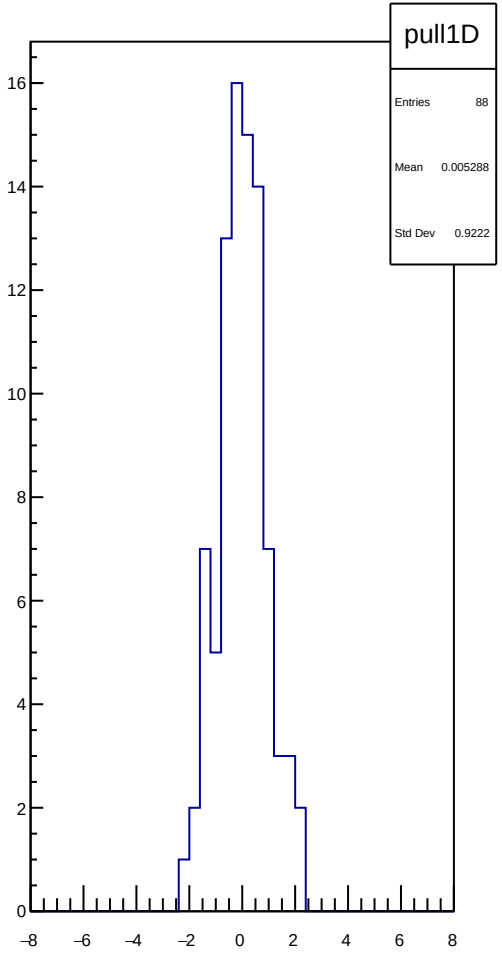

pull1D
Entries 88
Mean −0.01869
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

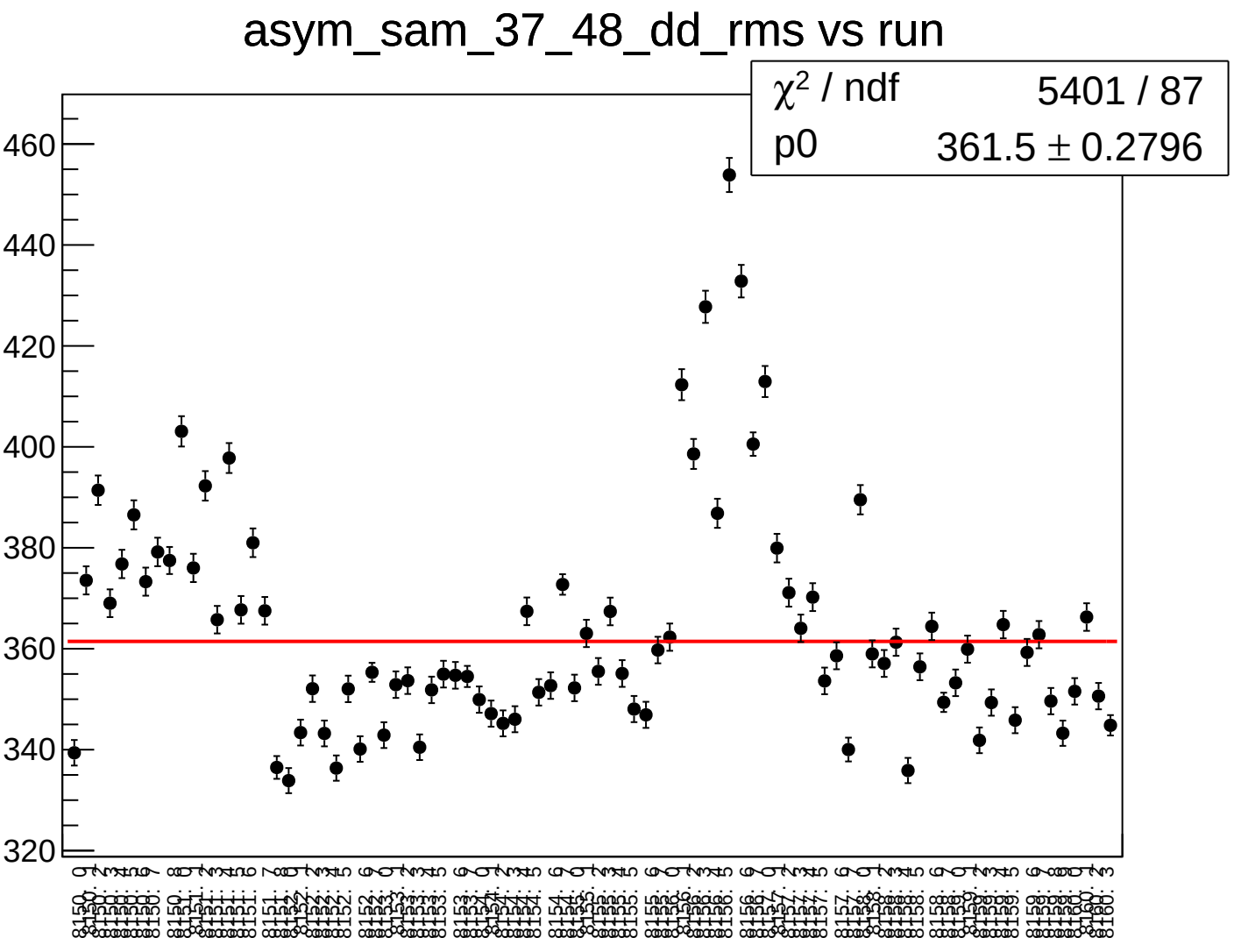

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1269 / 87
p0 70.56 ± 0.05452
76
74
72
70
68
66

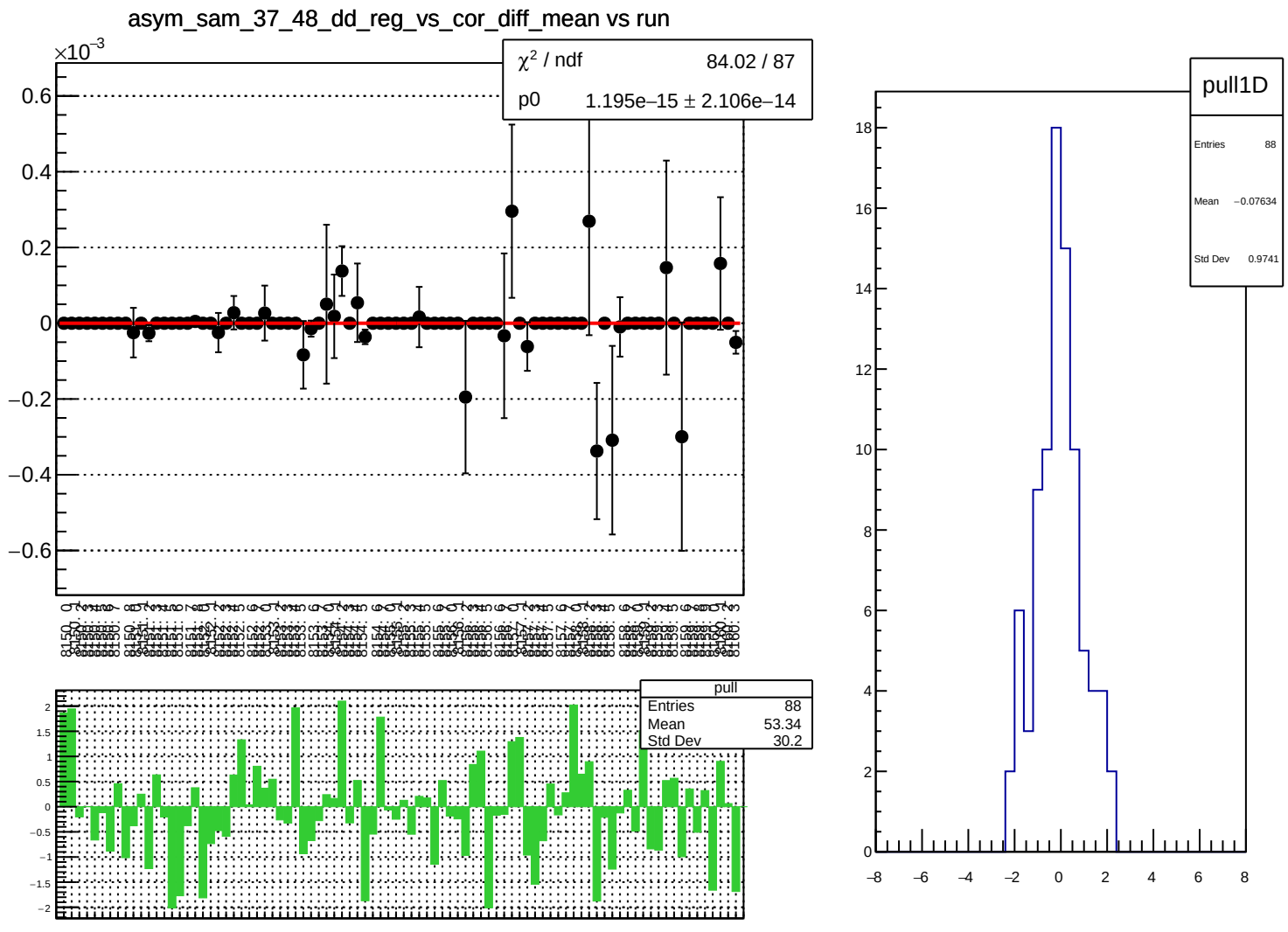

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.18 / 87
p0 613.5 ± 405.6
pull
Entries 88
Mean −44.67
Std Dev 75.57
pull1D
Entries 88
Mean −0.006246
Std Dev 0.8993

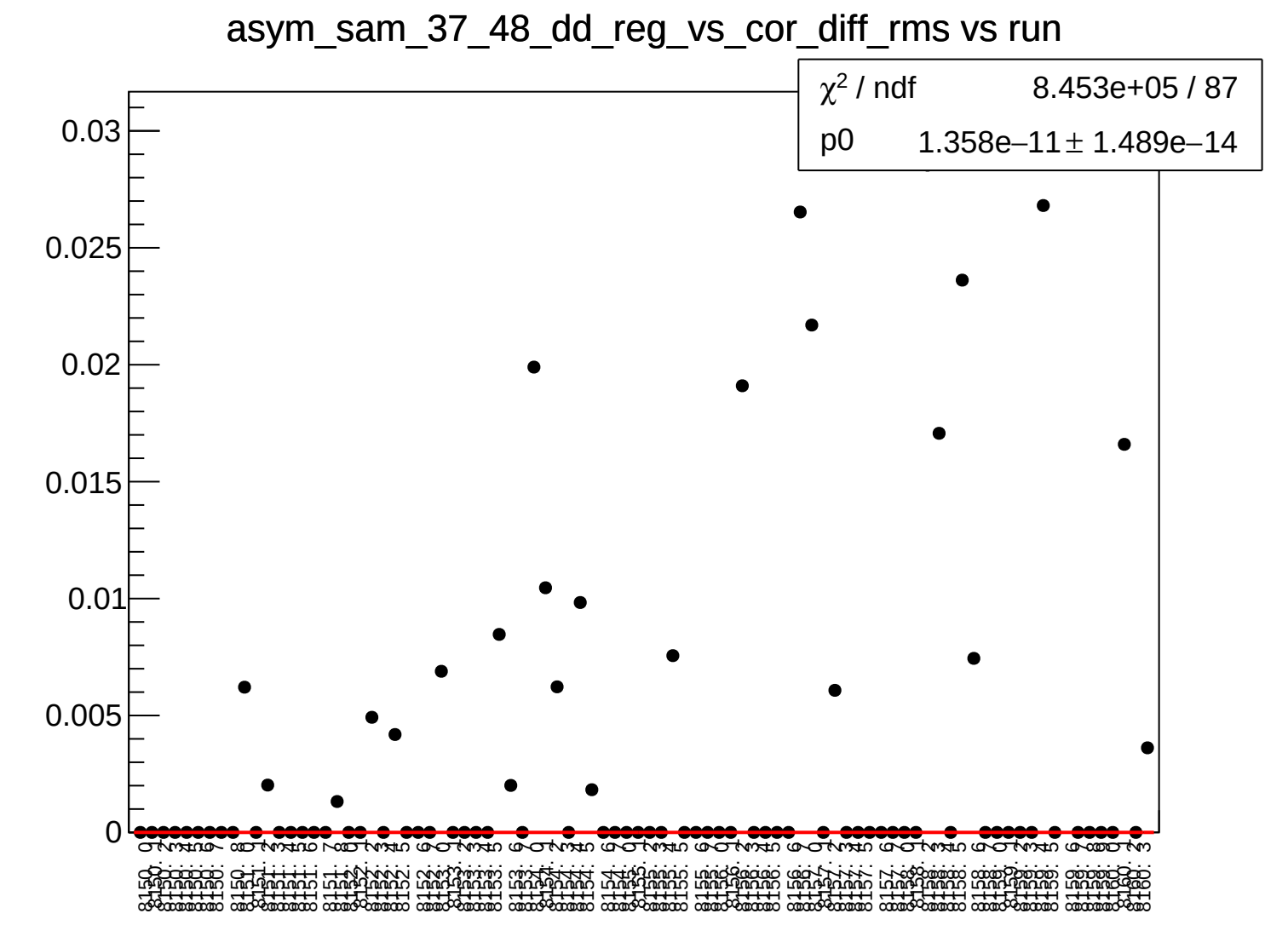

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4753 / 87
p0 370.8 ± 0.2868
460
440
420
400
380
360
340

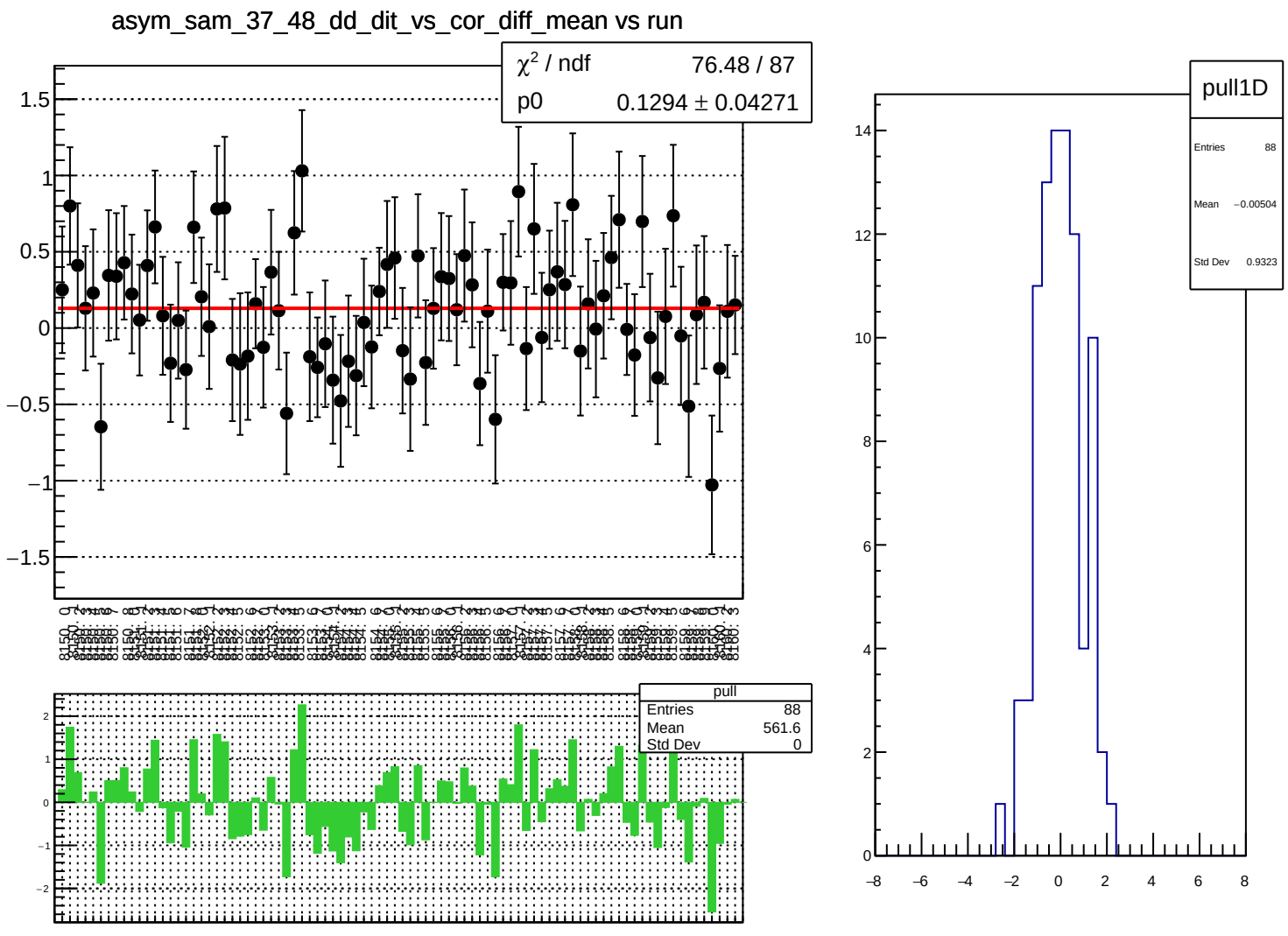

asym_sam_37_48_dd_mean vs run
χ² / ndf 74.85 / 87
p0 −655.2 ± 395.4
pull
Entries 88
Mean −113.4
Std Dev 0

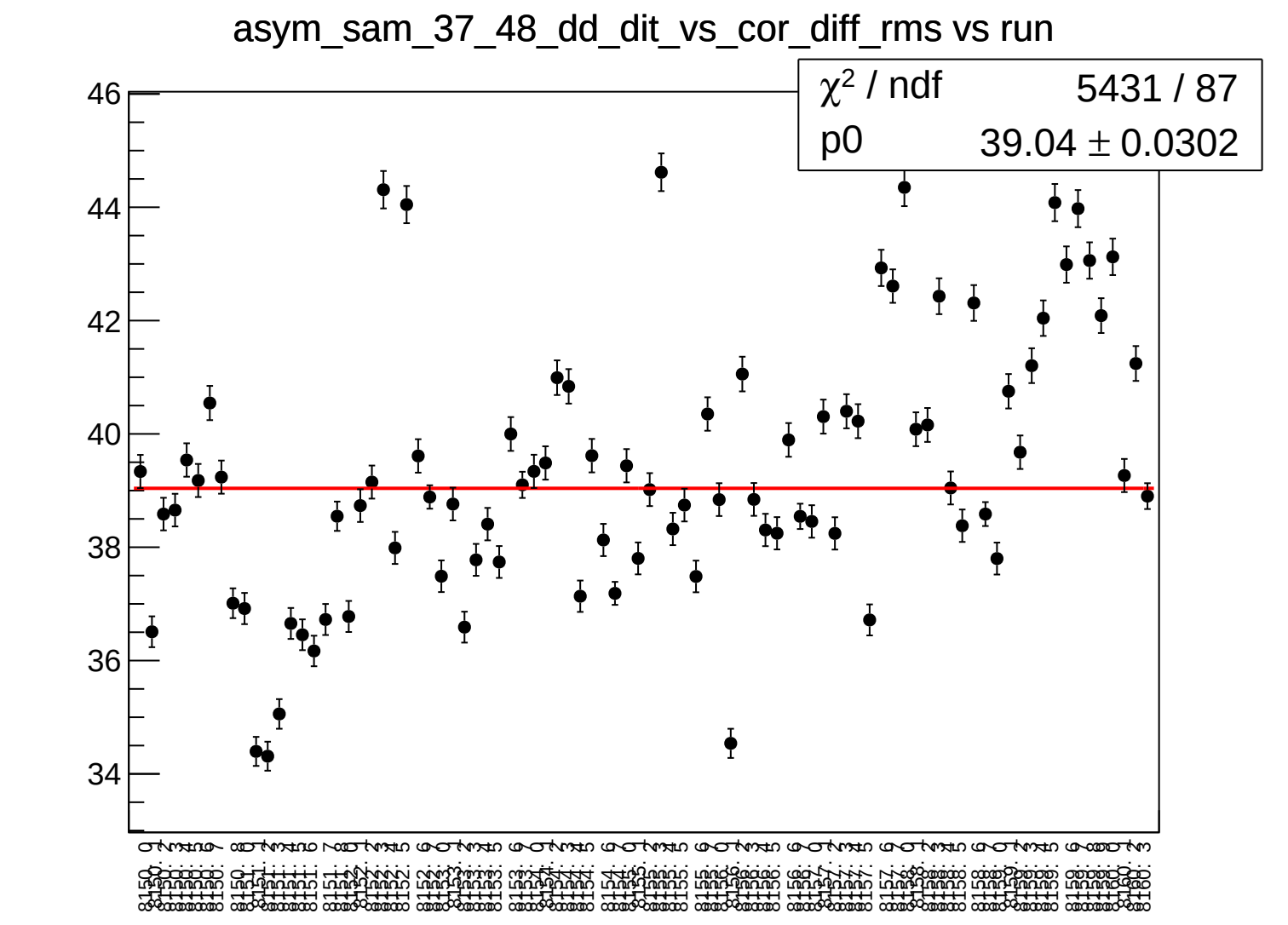

pull1D
Entries 88
Mean 0.005288
Std Dev 0.9222

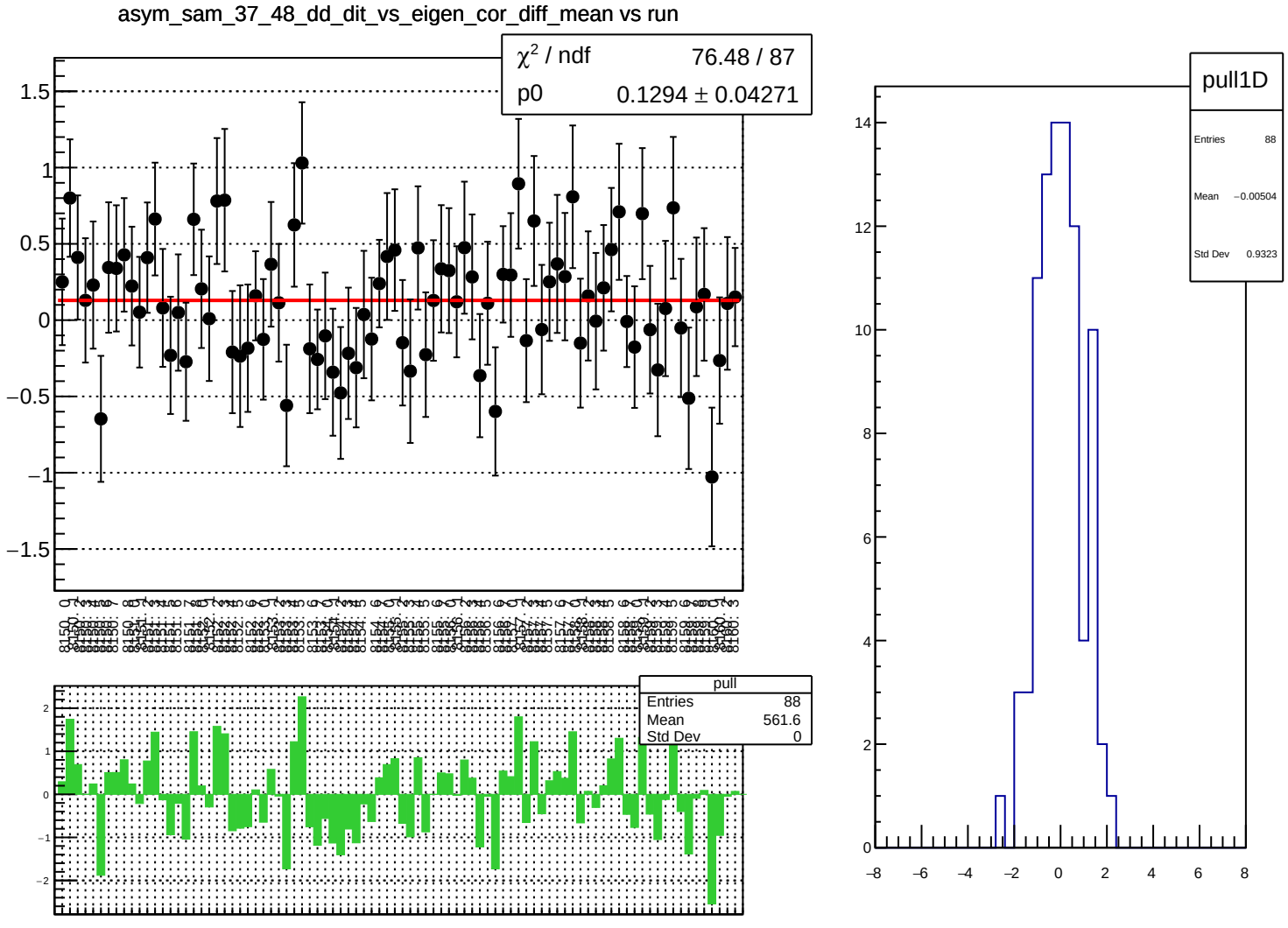

asym_sam_37_48_dd_rms vs run
χ² / ndf 5401 / 87
p0 361.5 ± 0.2796
460
440
420
400
380
360
340
320

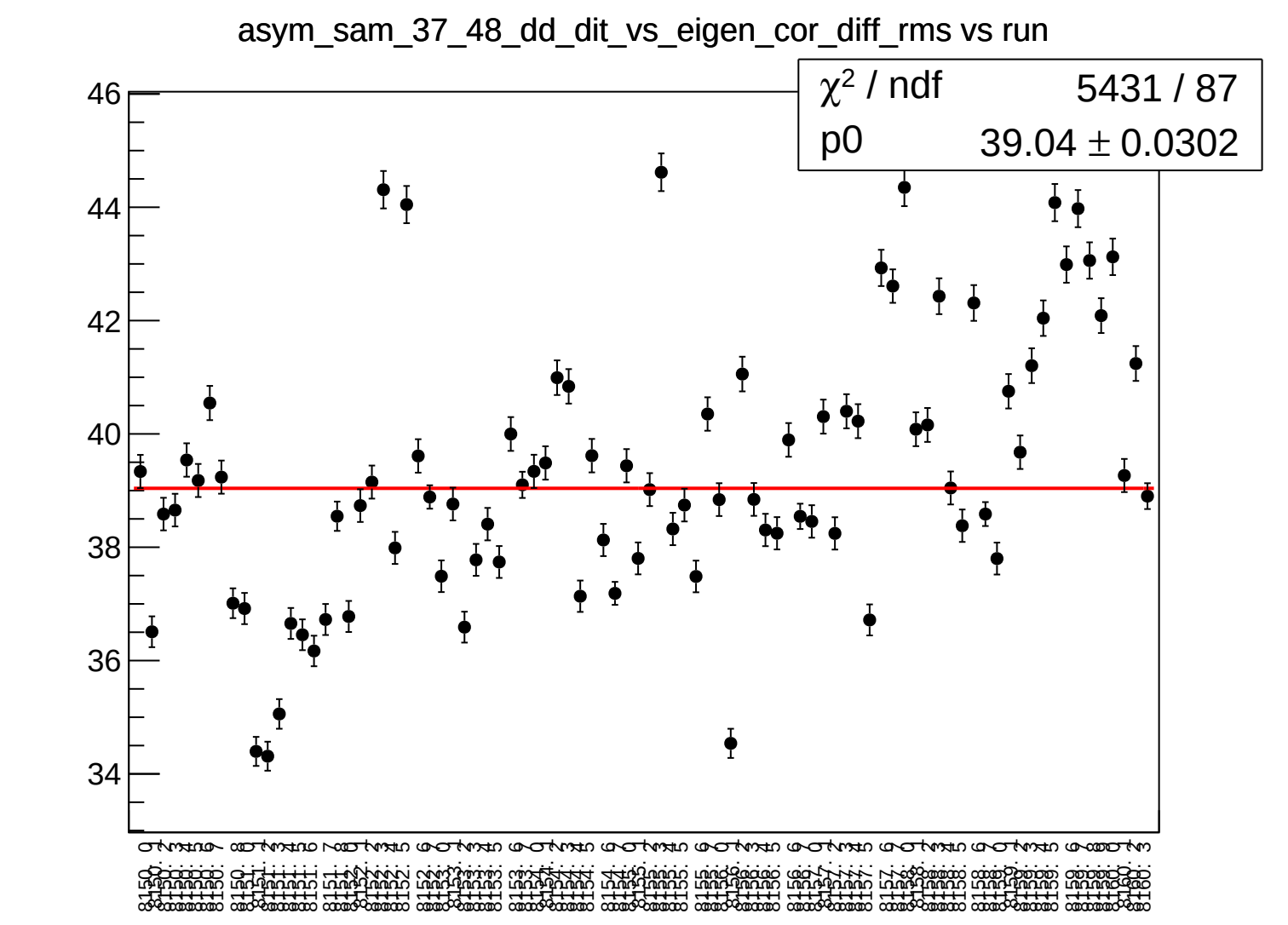

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 84.02 / 87
p0 1.195e−15 ± 2.106e−14
pull
Entries 88
Mean 53.34
Std Dev 30.2
pull1D
Entries 88
Mean −0.07634
Std Dev 0.9741

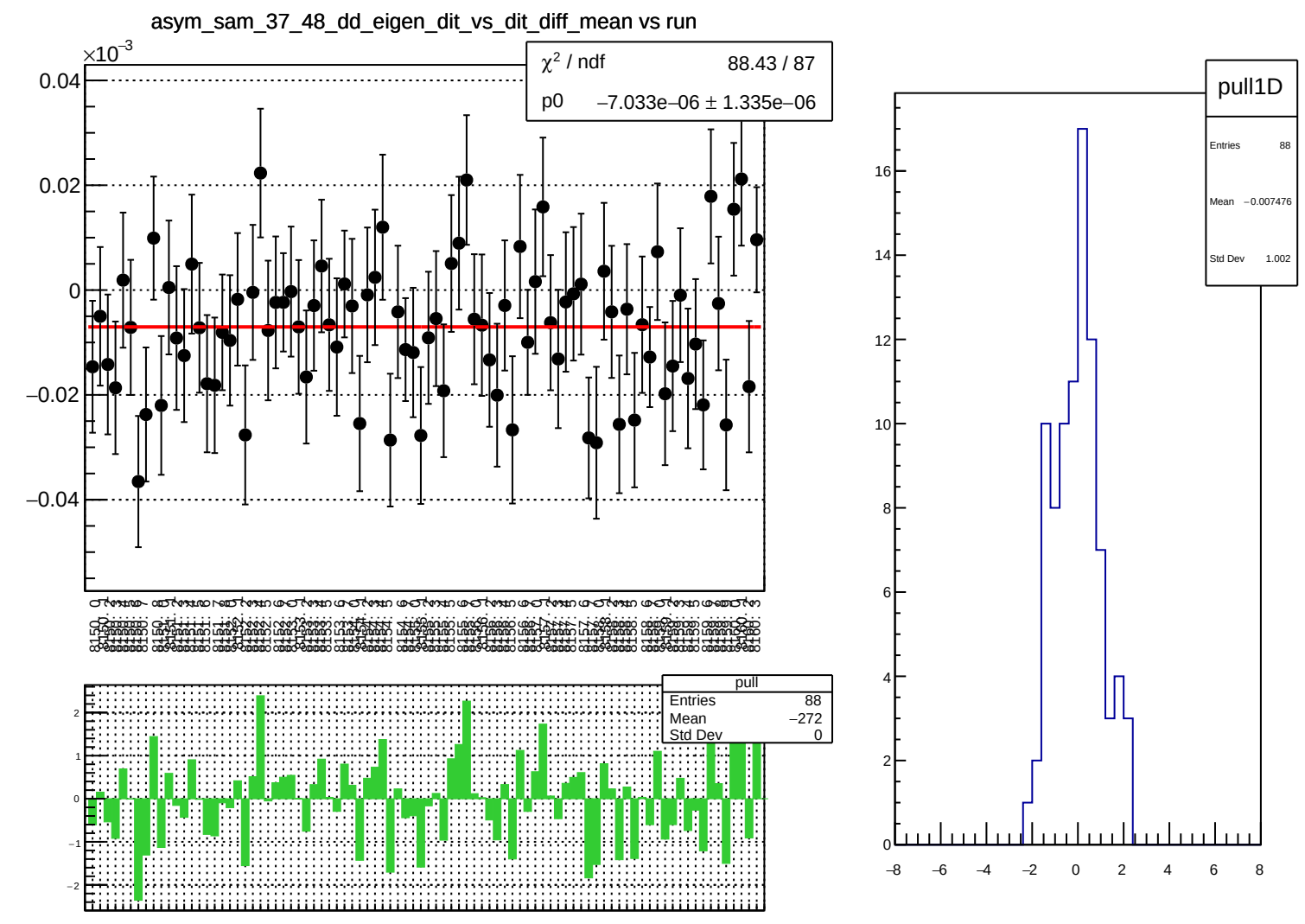

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.453e+05 / 87
p0 1.358e−11 ± 1.489e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

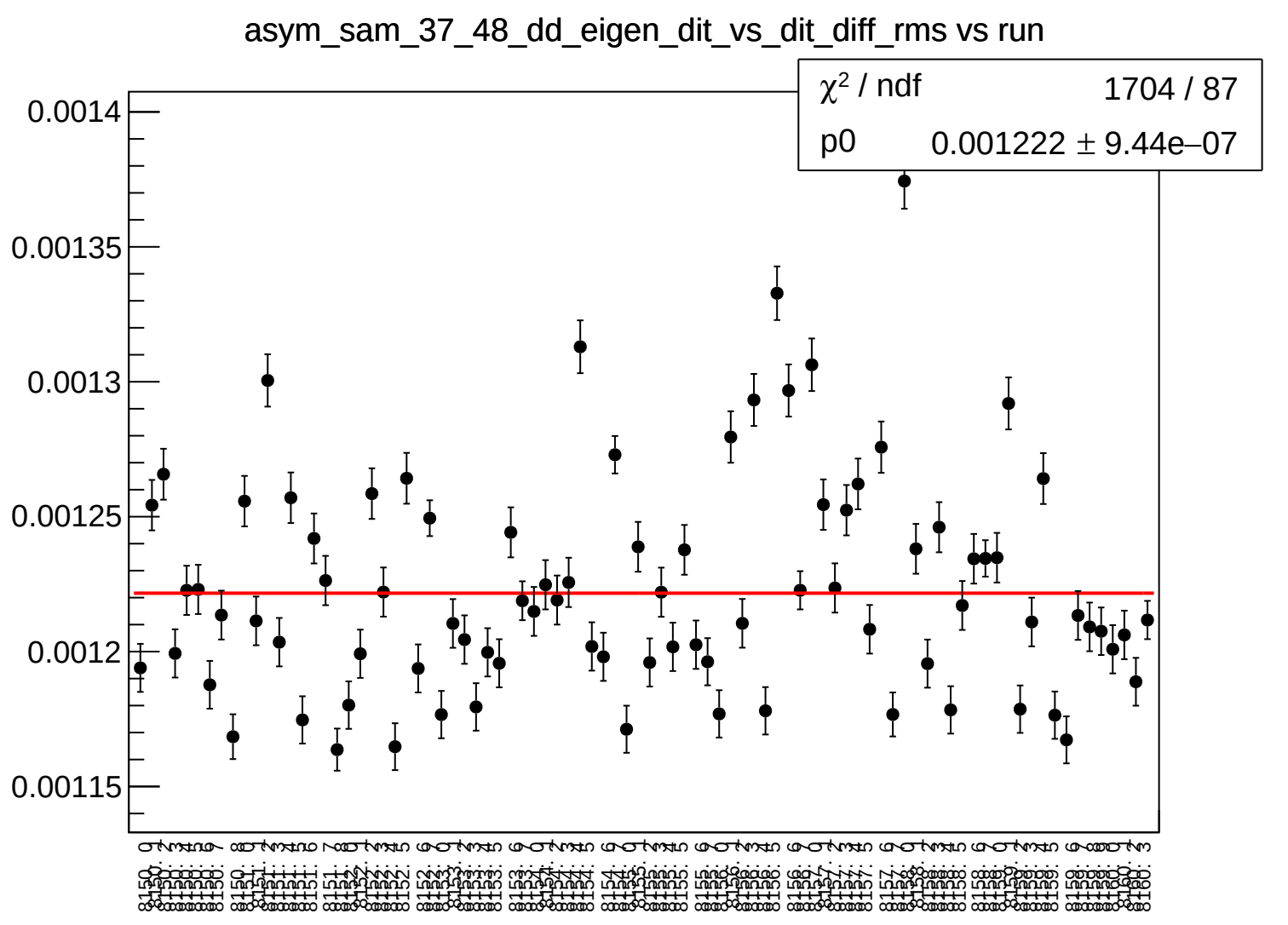

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.48 / 87
p0 0.1294 ± 0.04271
pull
Entries 88
Mean 561.6
Std Dev 0
pull1D
Entries 88
Mean −0.00504
Std Dev 0.9323

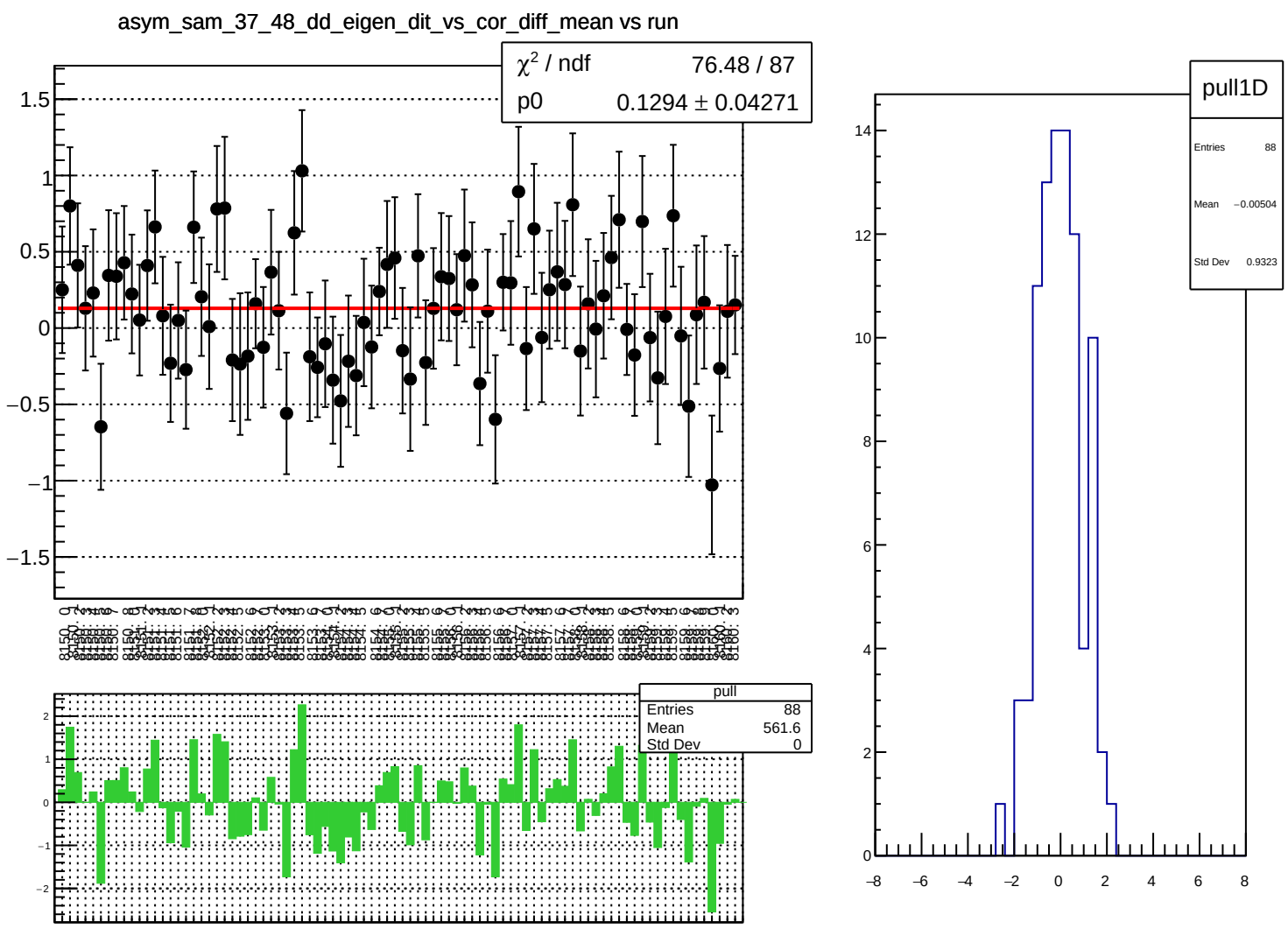

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5431 / 87
p0 39.04 ± 0.0302
46
44
42
40
38
36
34

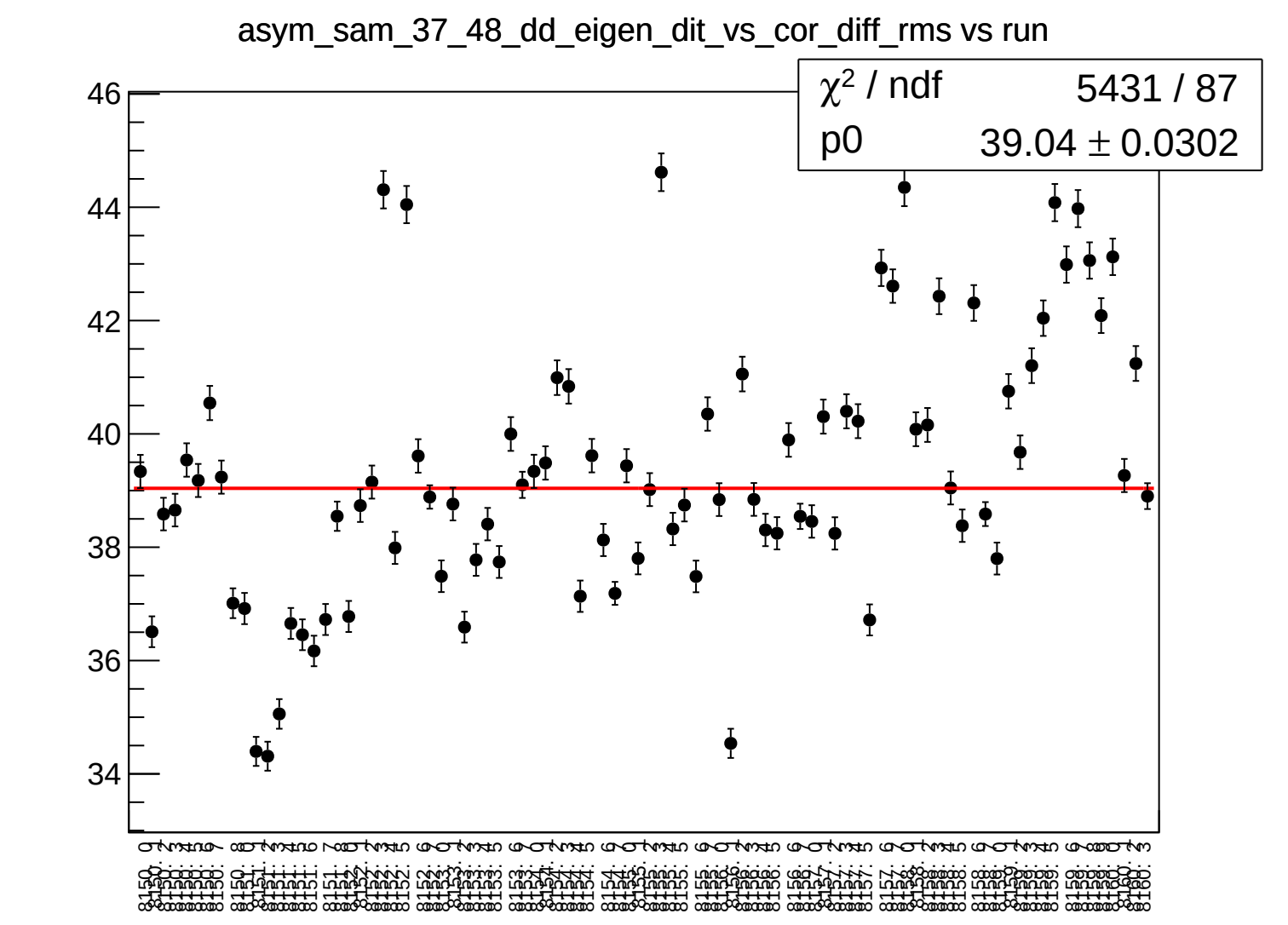

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.48 / 87
p0 0.1294 ± 0.04271
pull
Entries 88
Mean 561.6
Std Dev 0
pull1D
Entries 88
Mean −0.00504
Std Dev 0.9323

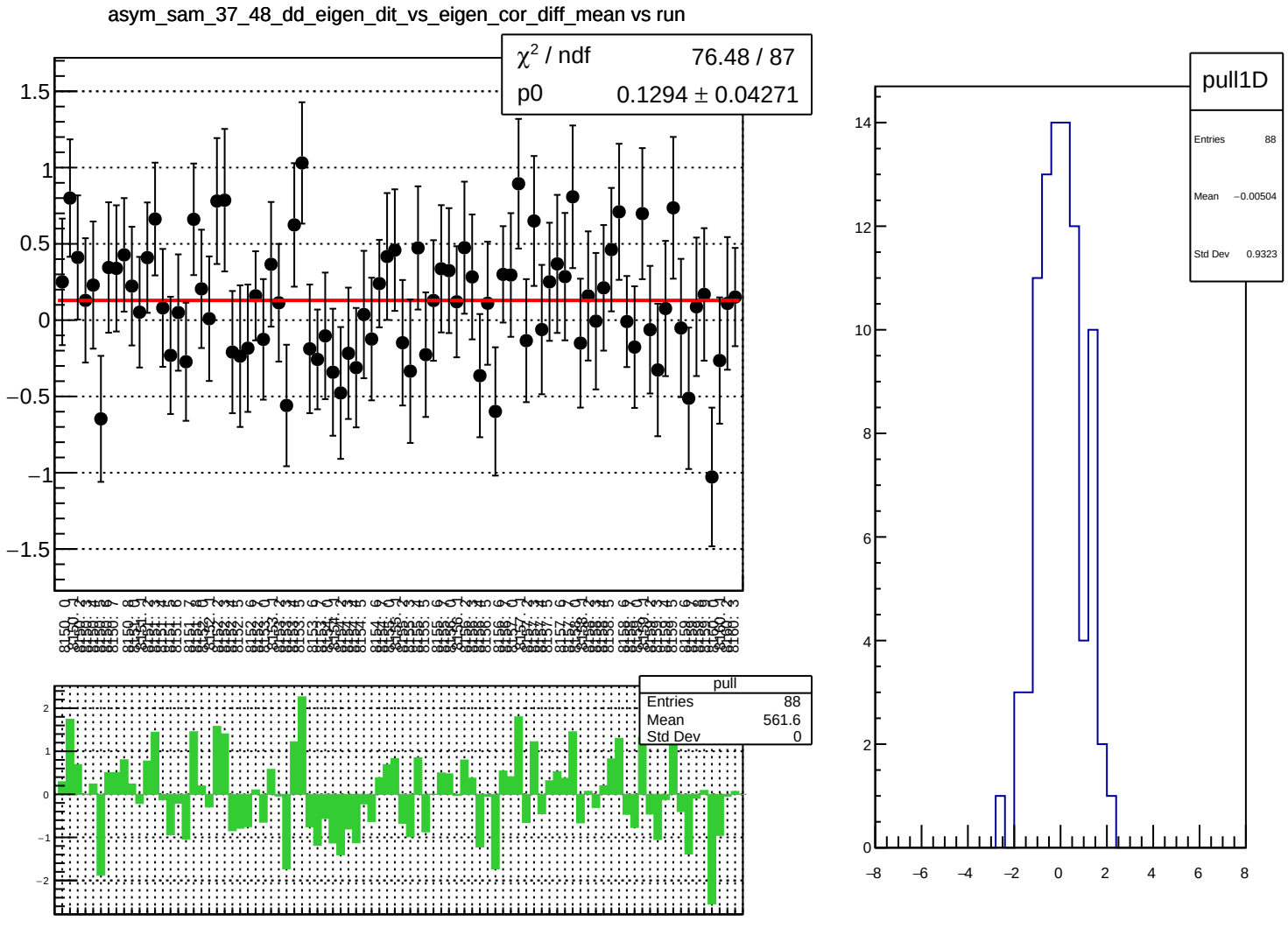

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5431 / 87
p0 39.04 ± 0.0302
46
44
42
40
38
36
34

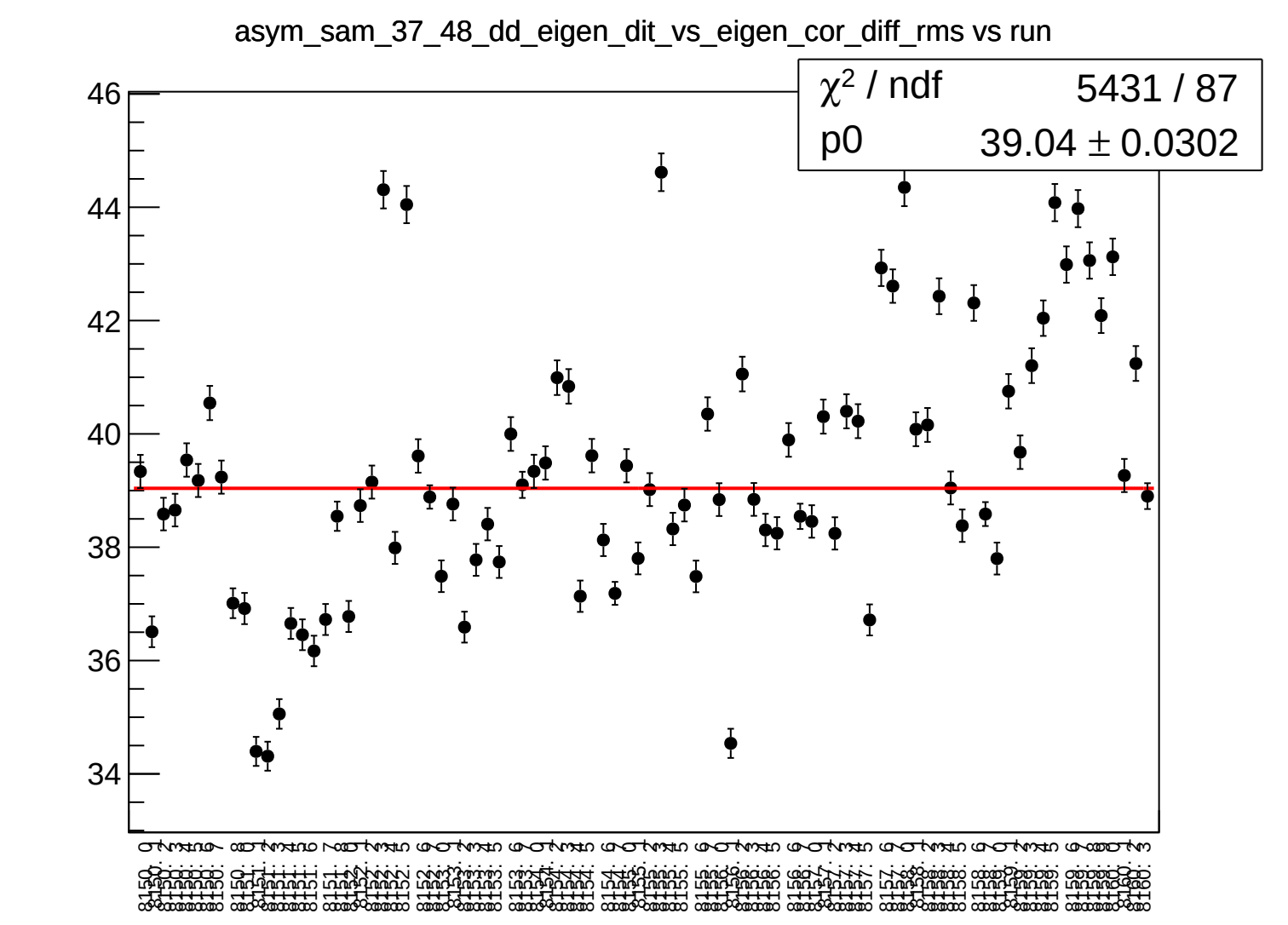

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.43 / 87
p0 −7.033e−06 ± 1.335e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean −272
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007476
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

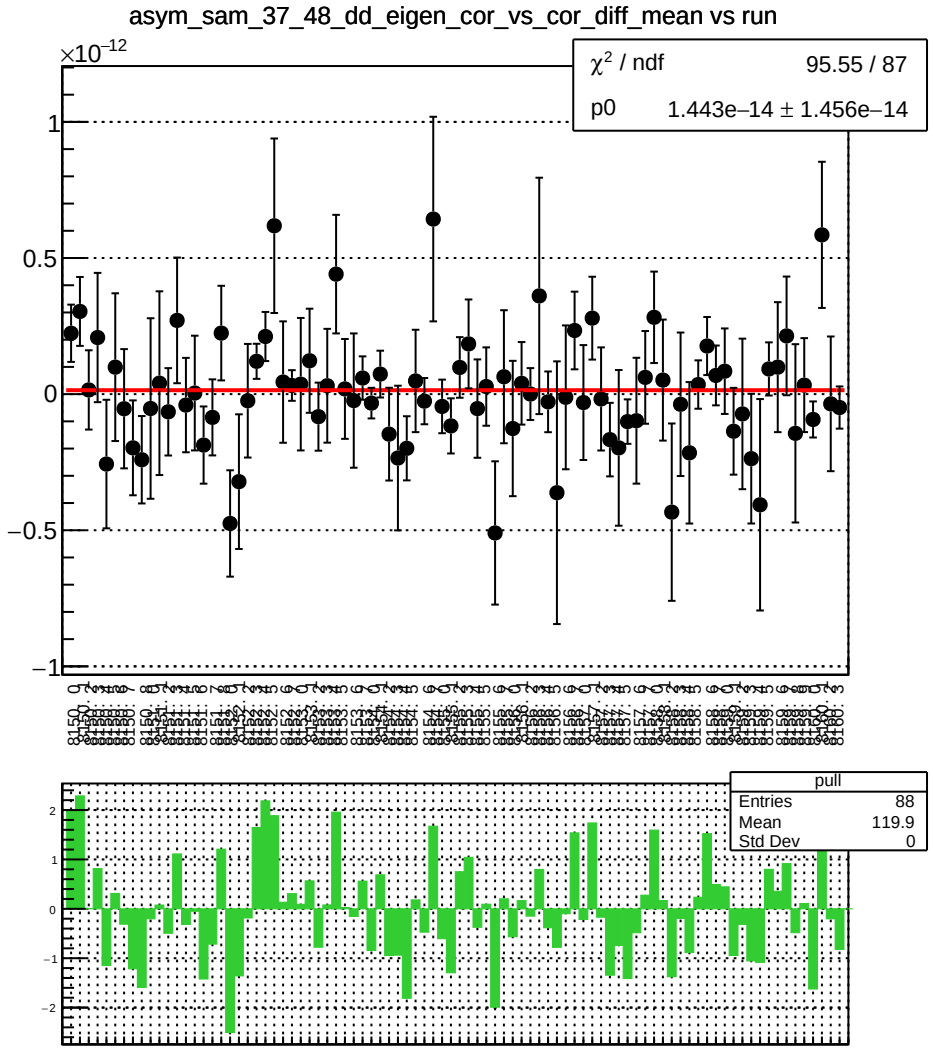

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1704 / 87
p0 0.001222 ± 9.44e–07
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115

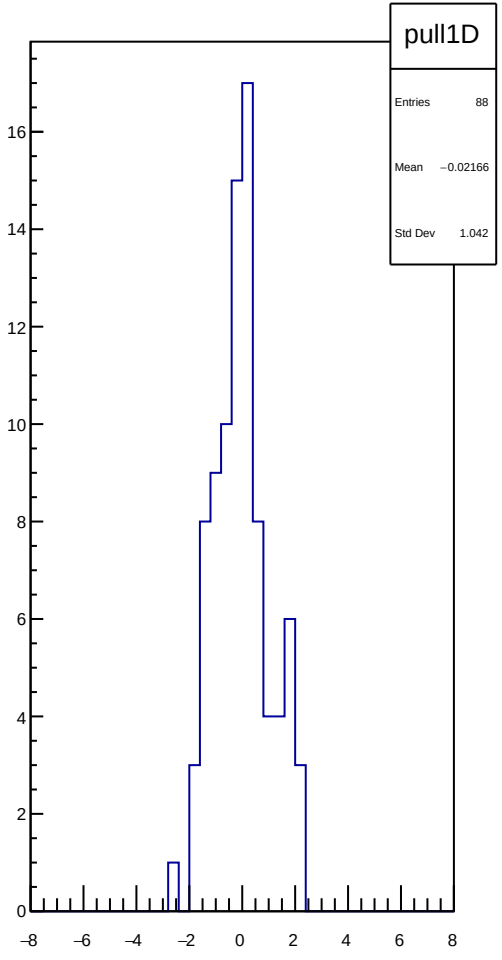

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.48 / 87
p0 0.1294 ± 0.04271
pull
Entries 88
Mean 561.6
Std Dev 0
pull1D
Entries 88
Mean −0.00504
Std Dev 0.9323

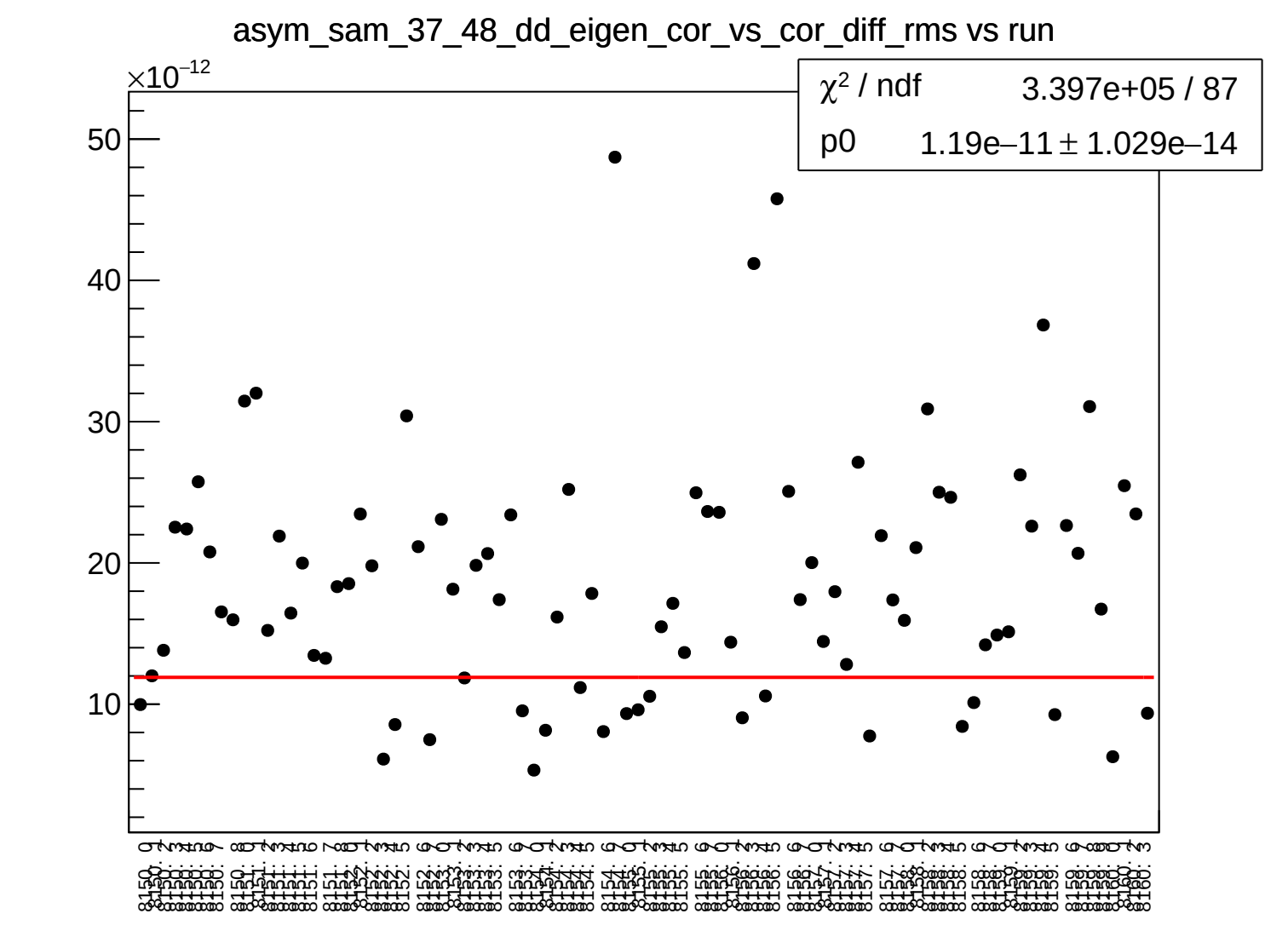

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5431 / 87
p0 39.04 ± 0.0302
46
44
42
40
38
36
34

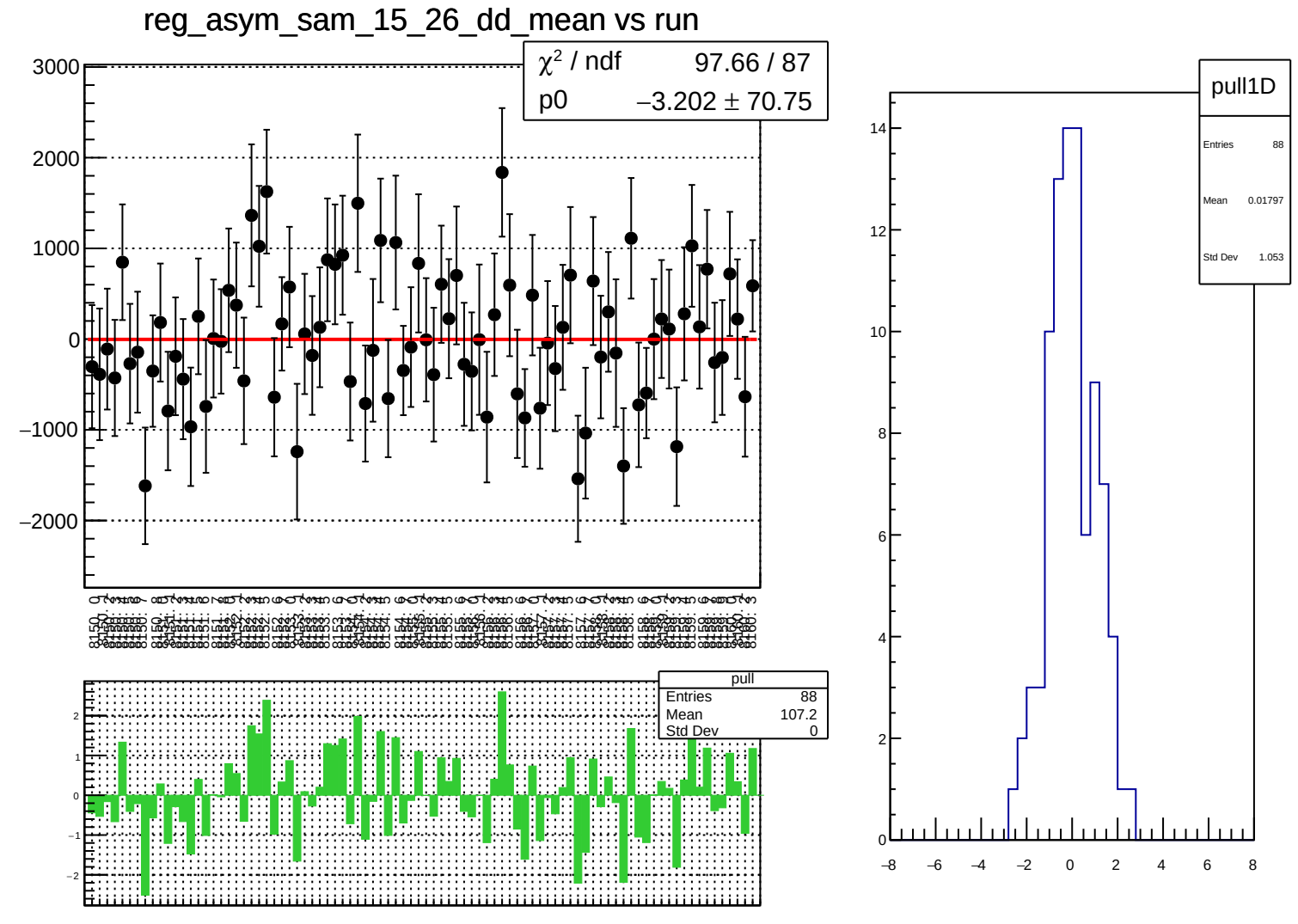

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.48 / 87
p0 0.1294 ± 0.04271
pull
Entries 88
Mean 561.6
Std Dev 0
pull1D
Entries 88
Mean −0.00504
Std Dev 0.9323

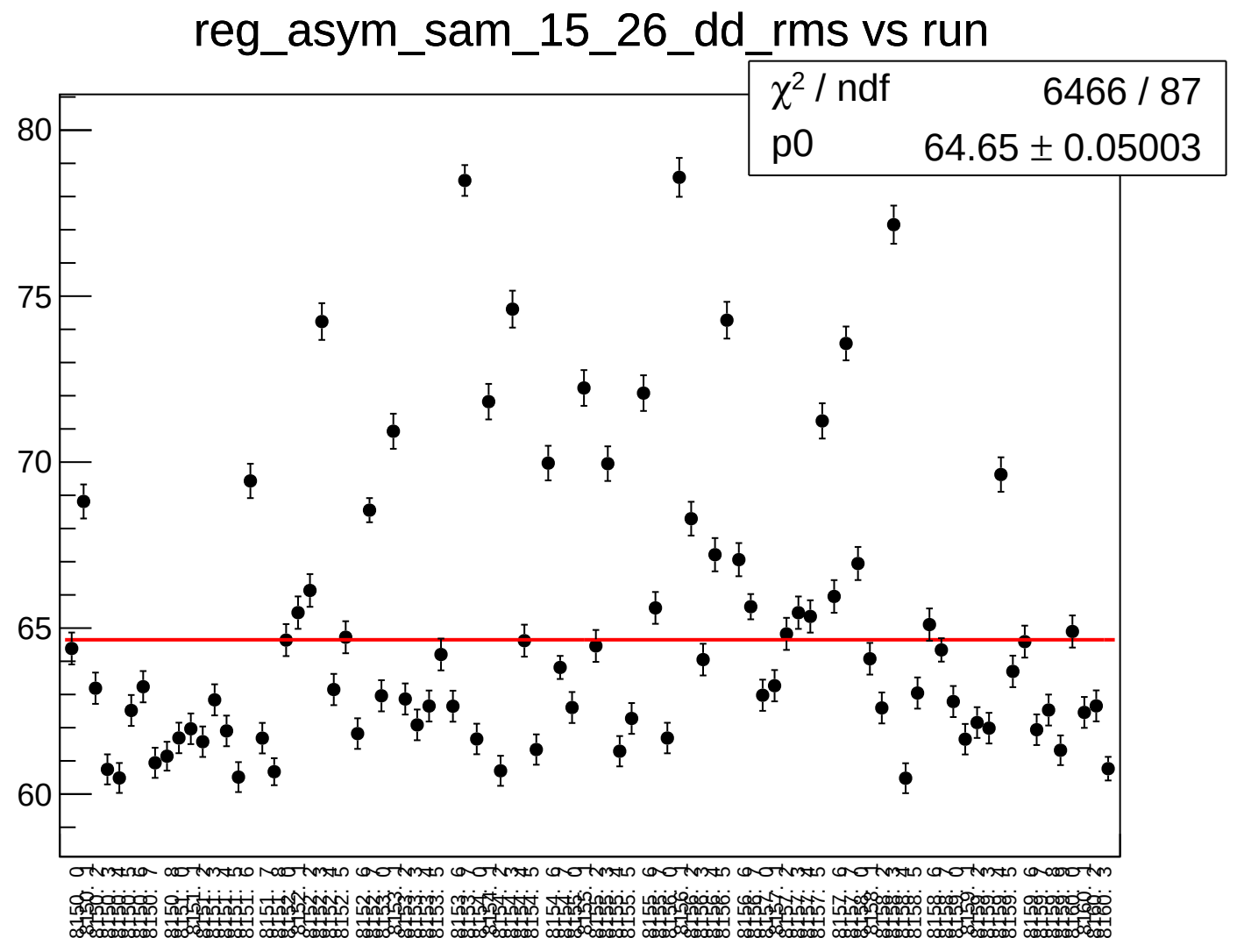

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5431 / 87
p0 39.04 ± 0.0302
46
44
42
40
38
36
34

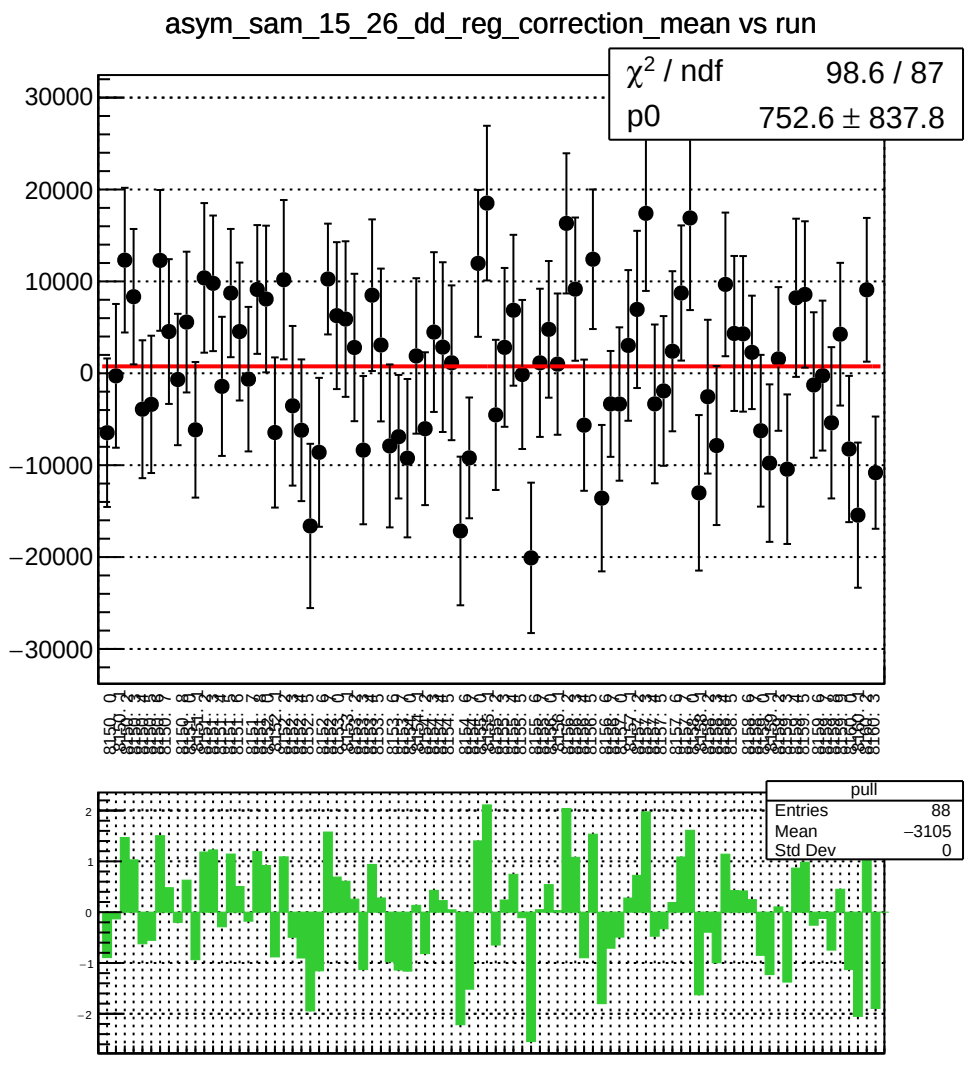

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.55 / 87
p0 1.443e−14 ± 1.456e−14
pull
Entries 88
Mean 119.9
Std Dev 0

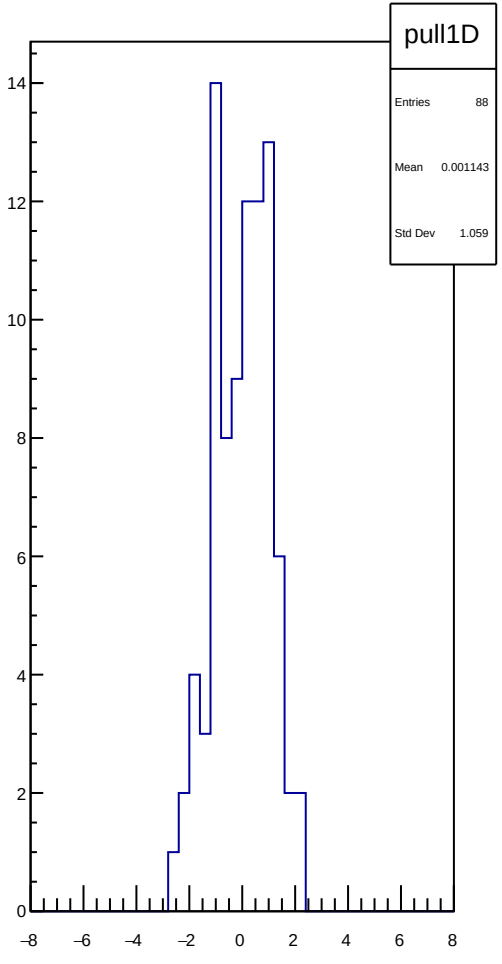

pull1D
Entries 88
Mean −0.02166
Std Dev 1.042

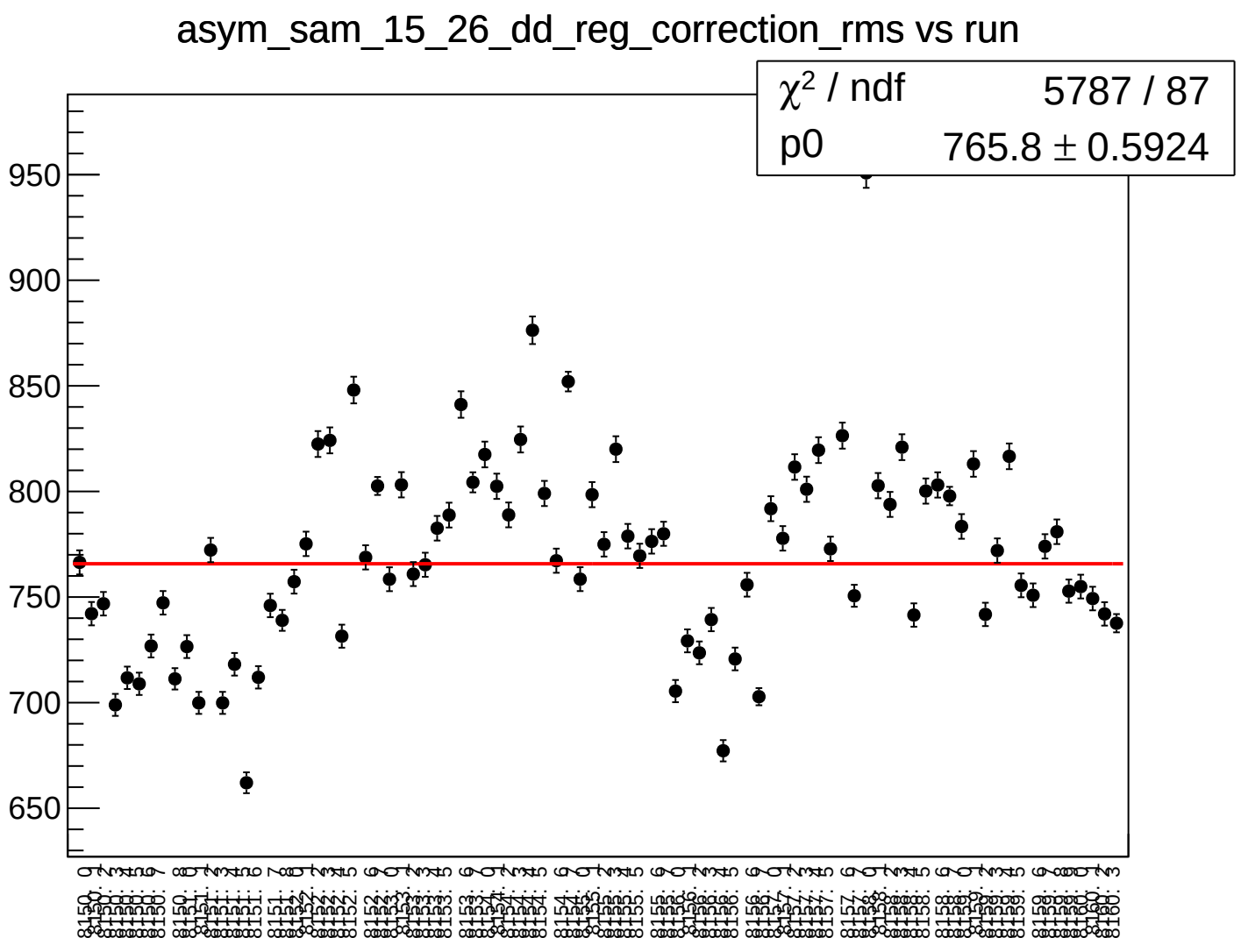

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.397e+05 / 87
p0 1.19e−11 ± 1.029e−14
50
40
30
20
10

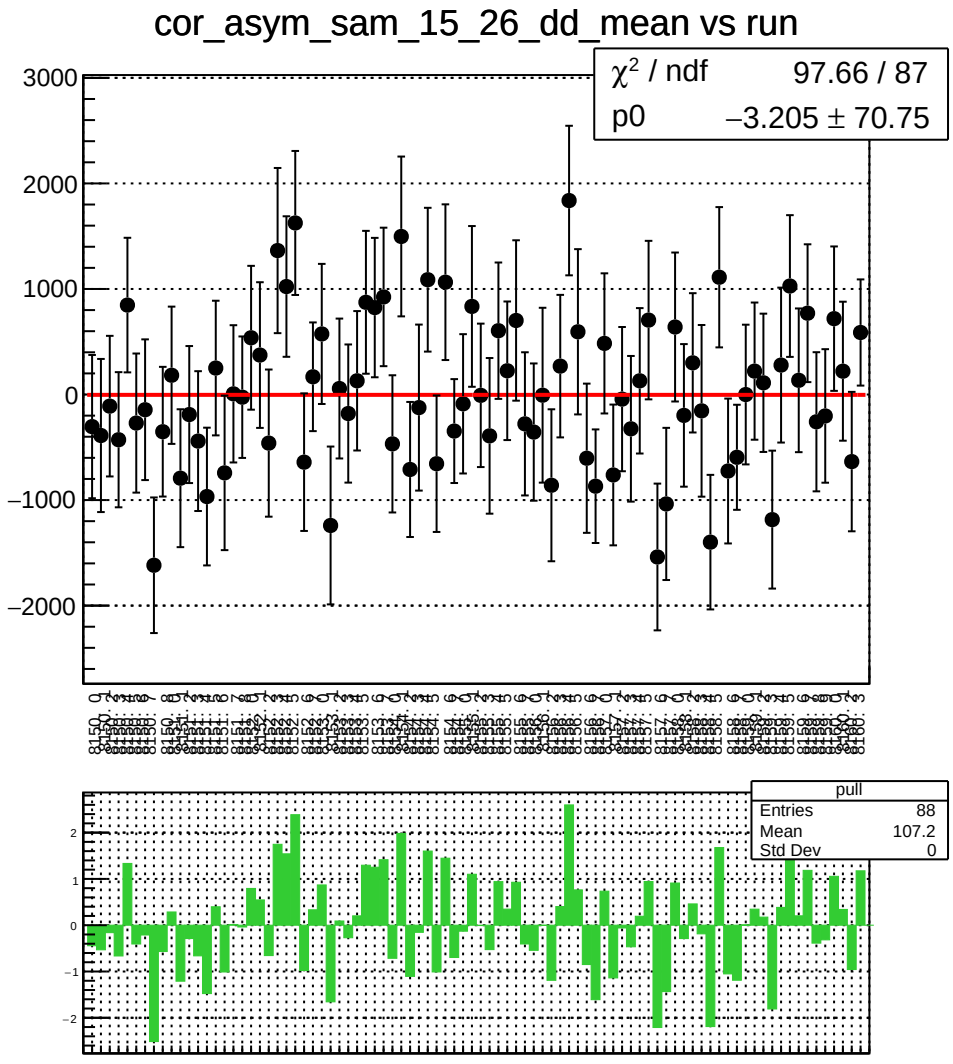

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 97.66 / 87
p0 −3.202 ± 70.75
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 107.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01797
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

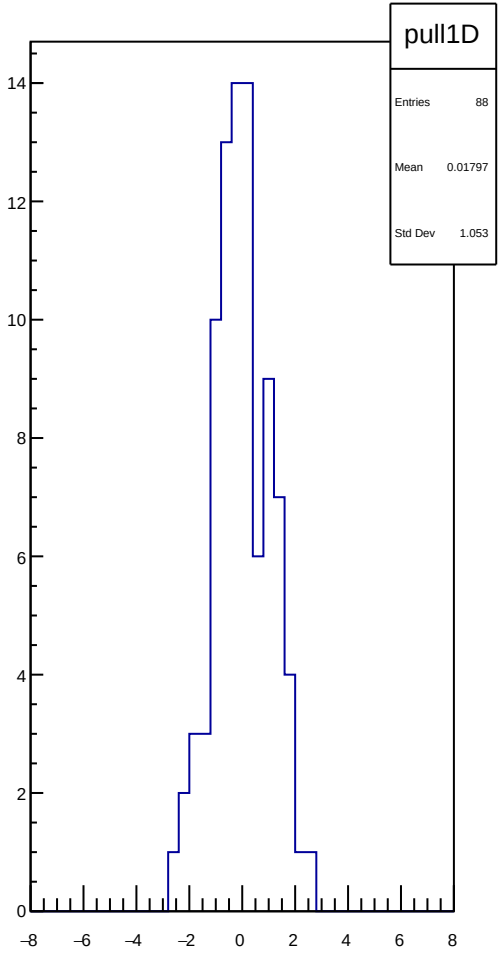

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 6466 / 87
p0 64.65 ± 0.05003
80
75
70
65
60

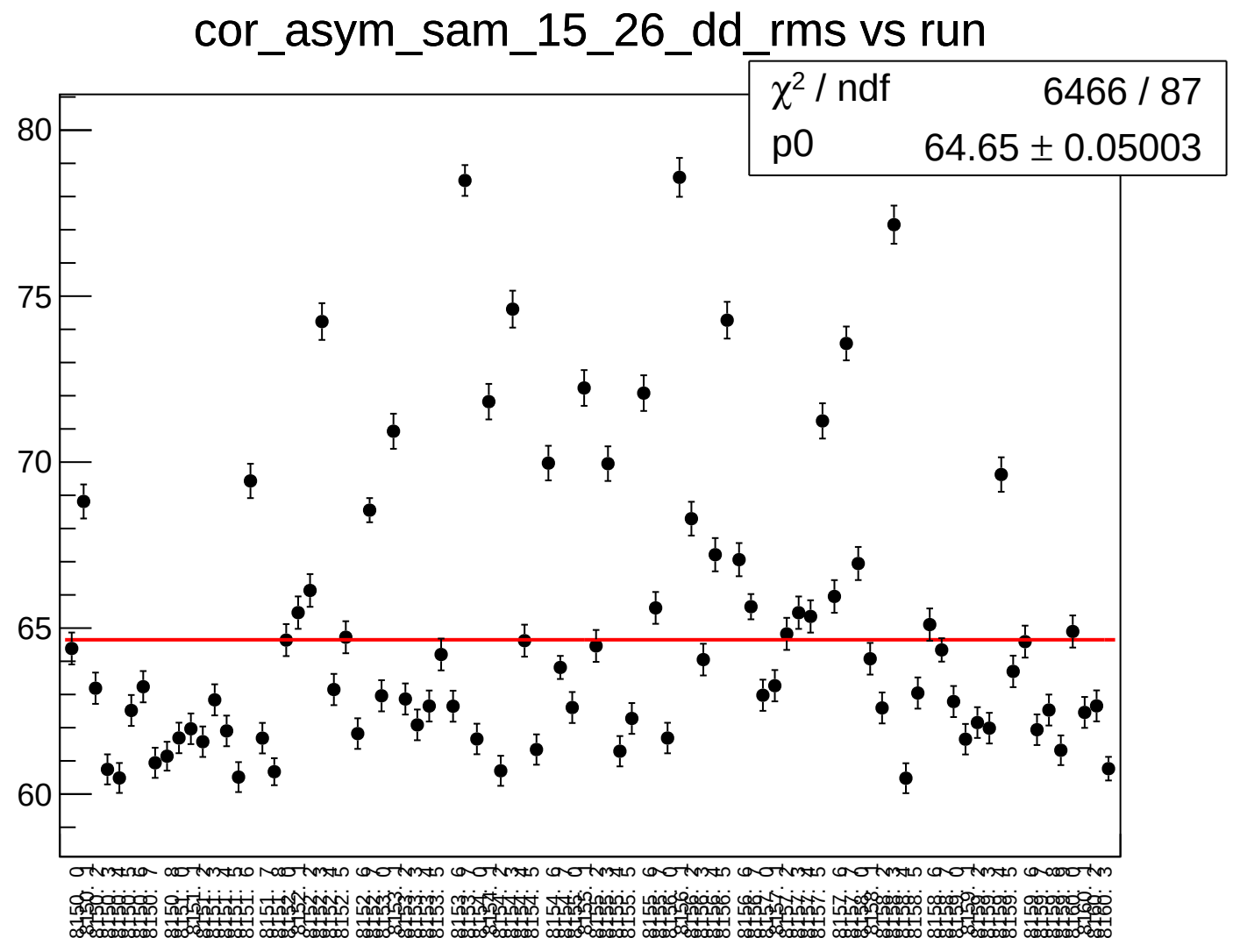

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 98.6 / 87
p0 752.6 ± 837.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −3105
Std Dev 0
2
1
0
−1
−2

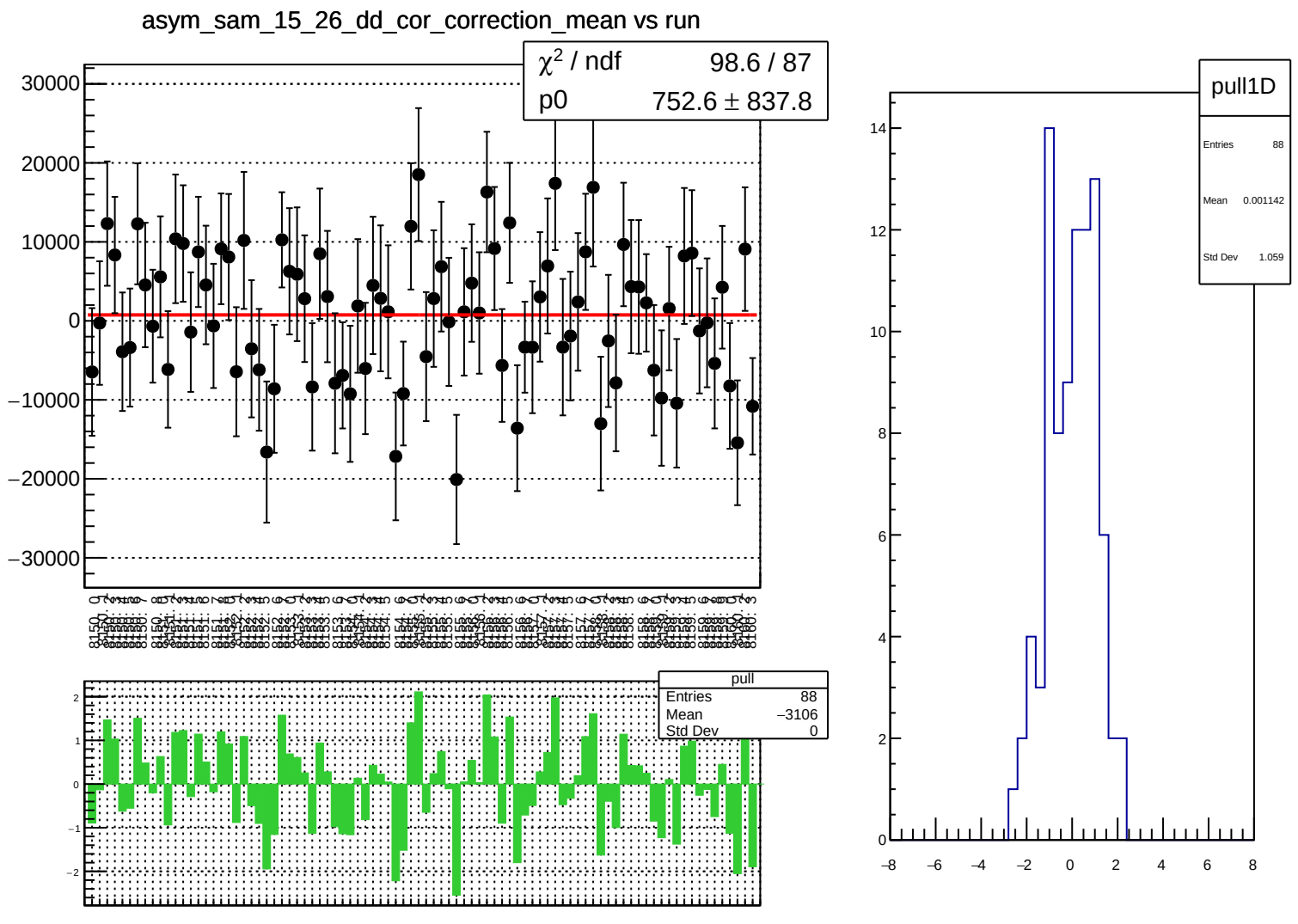

pull1D
Entries 88
Mean 0.001143
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

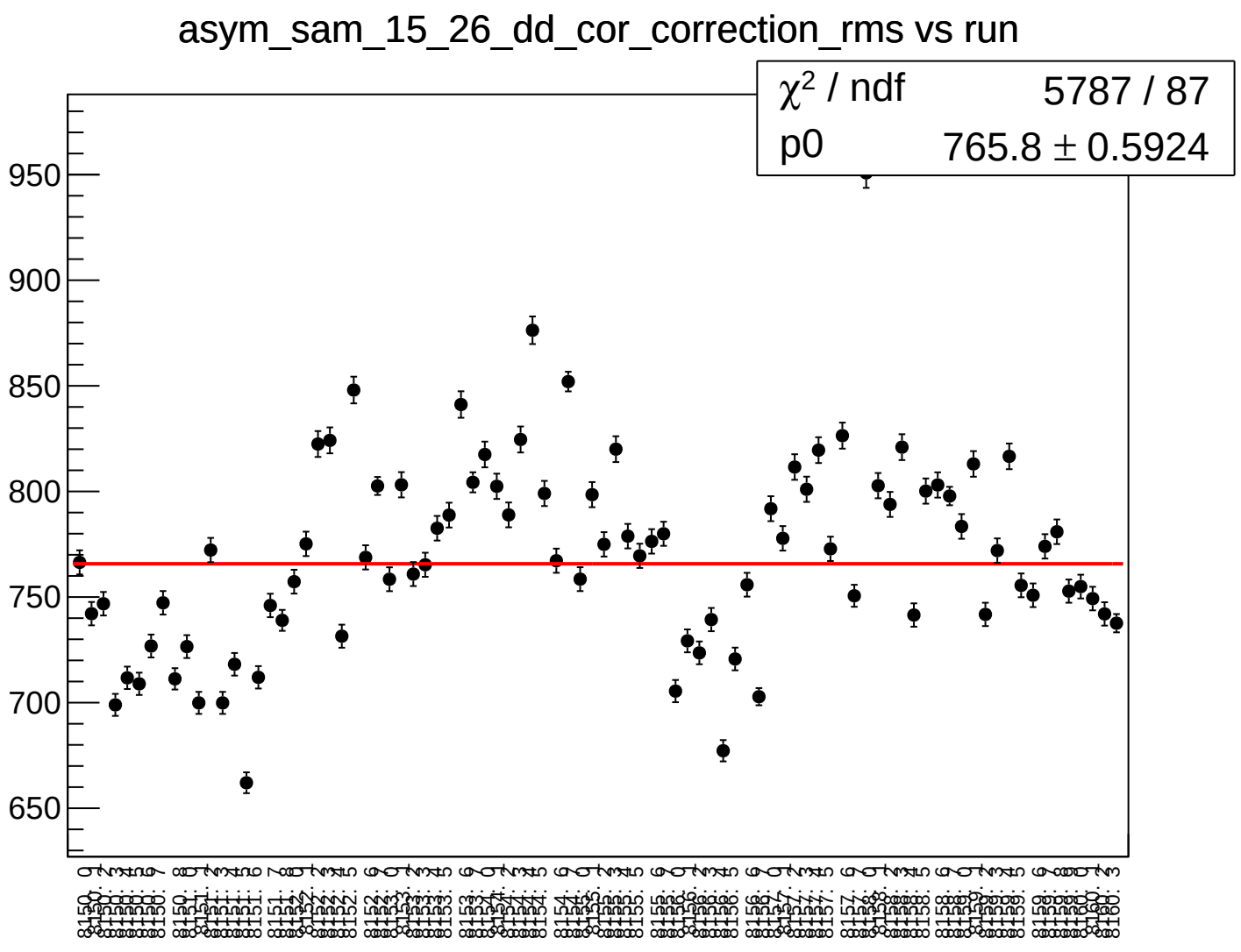

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 5787 / 87
p0 765.8 ± 0.5924
950
900
850
800
750
700
650

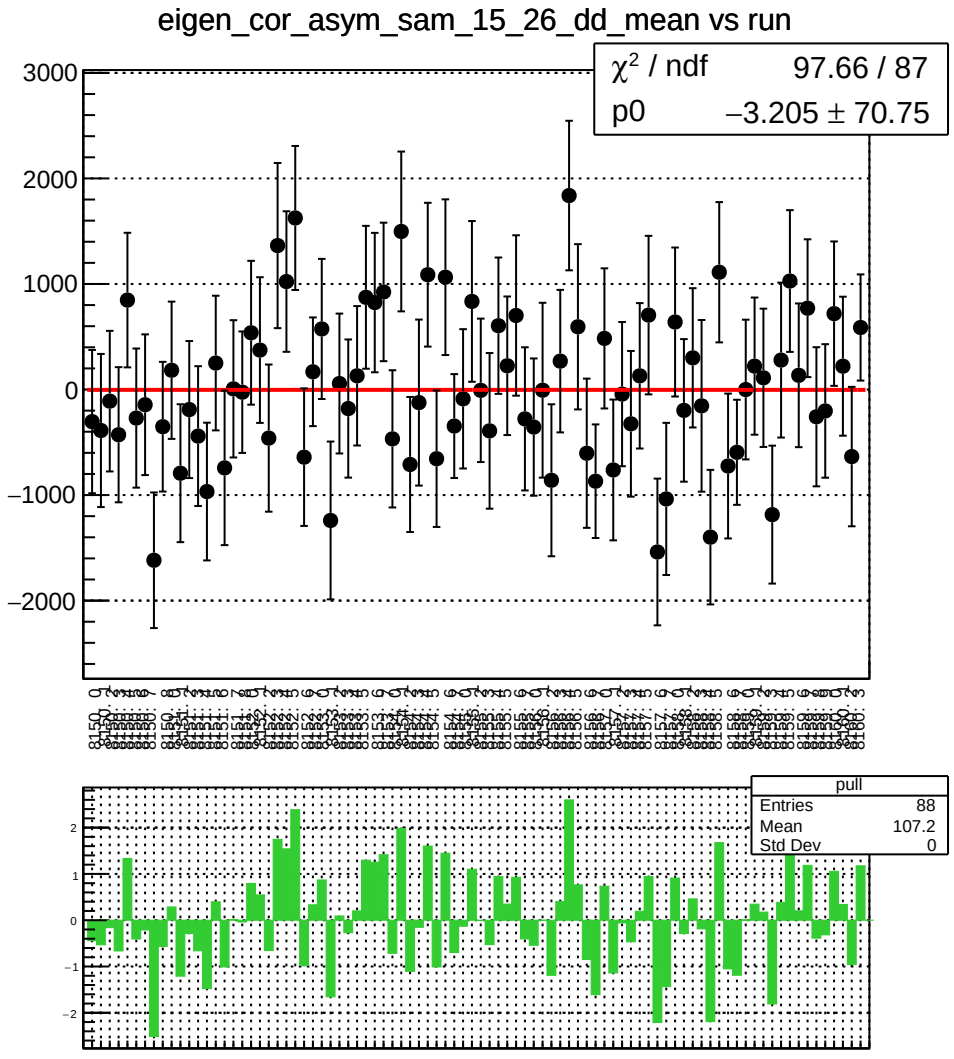

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 97.66 / 87
p0 −3.205 ± 70.75
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 107.2
Std Dev 0
2
1
0
−1
−2

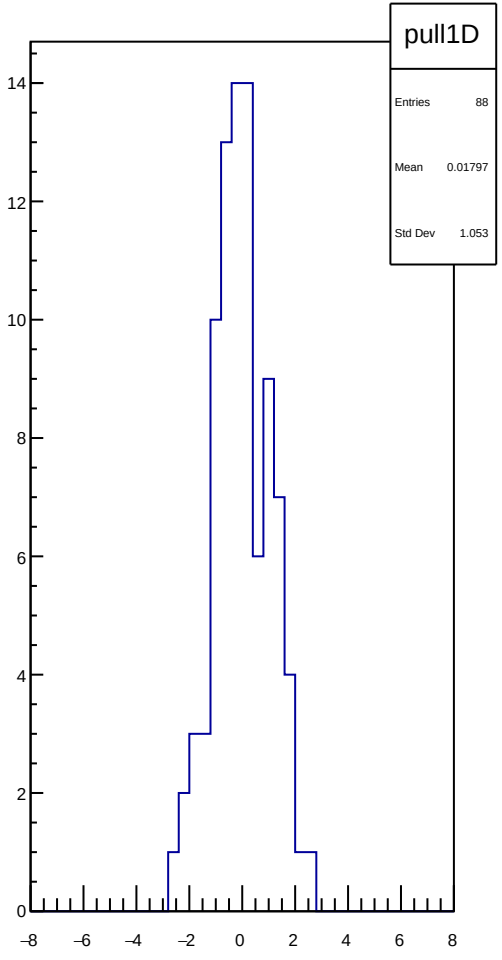

pull1D
Entries 88
Mean 0.01797
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

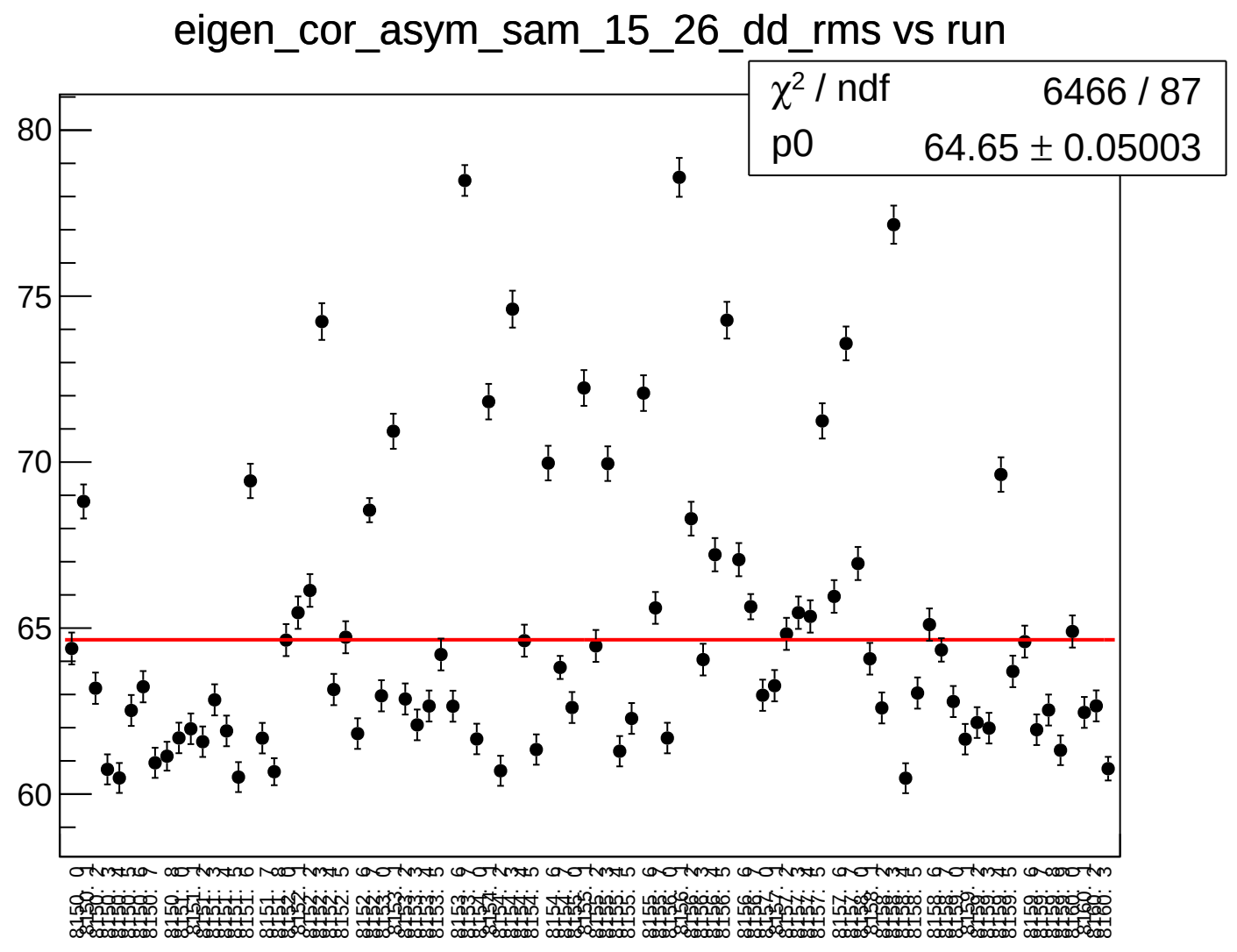

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 6466 / 87
p0 64.65 ± 0.05003
80
75
70
65
60

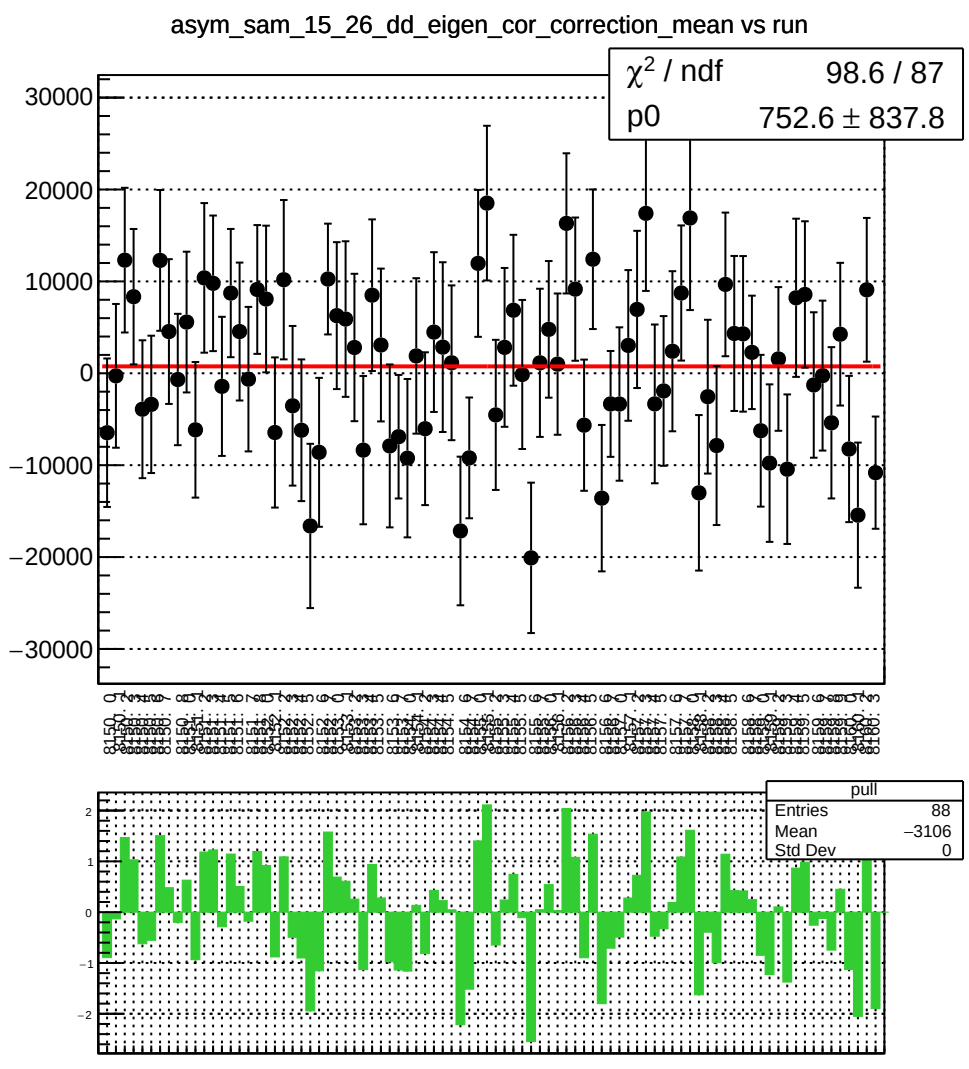

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 98.6 / 87
p0 752.6 ± 837.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −3106
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001142
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

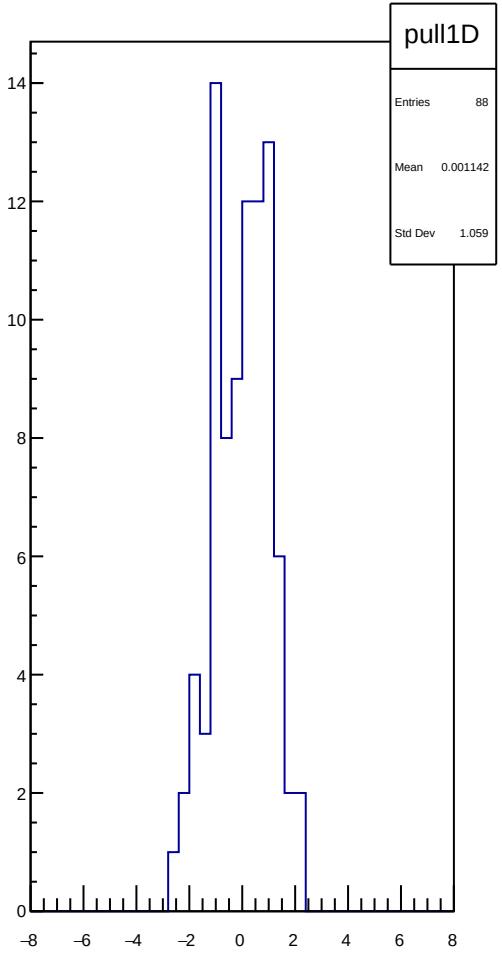

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 5787 / 87
p0 765.8 ± 0.5924
950
900
850
800
750
700
650


eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 97.66 / 87
p0 −3.205 ± 70.75
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 107.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.01797
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 6466 / 87
p0 64.65 ± 0.05003
80
75
70
65
60


asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.6 / 87
p0 752.6 ± 837.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −3106
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.001142
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
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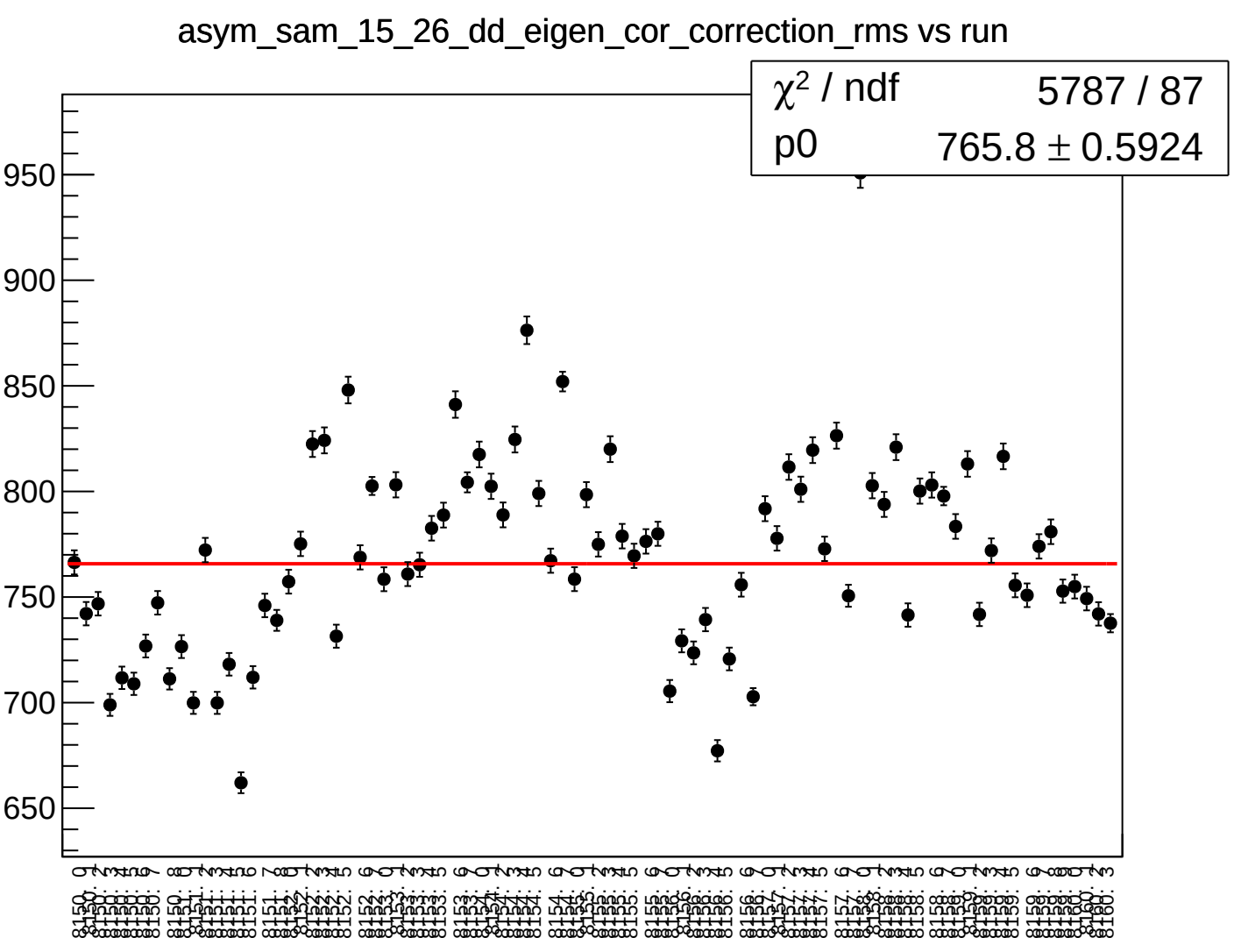
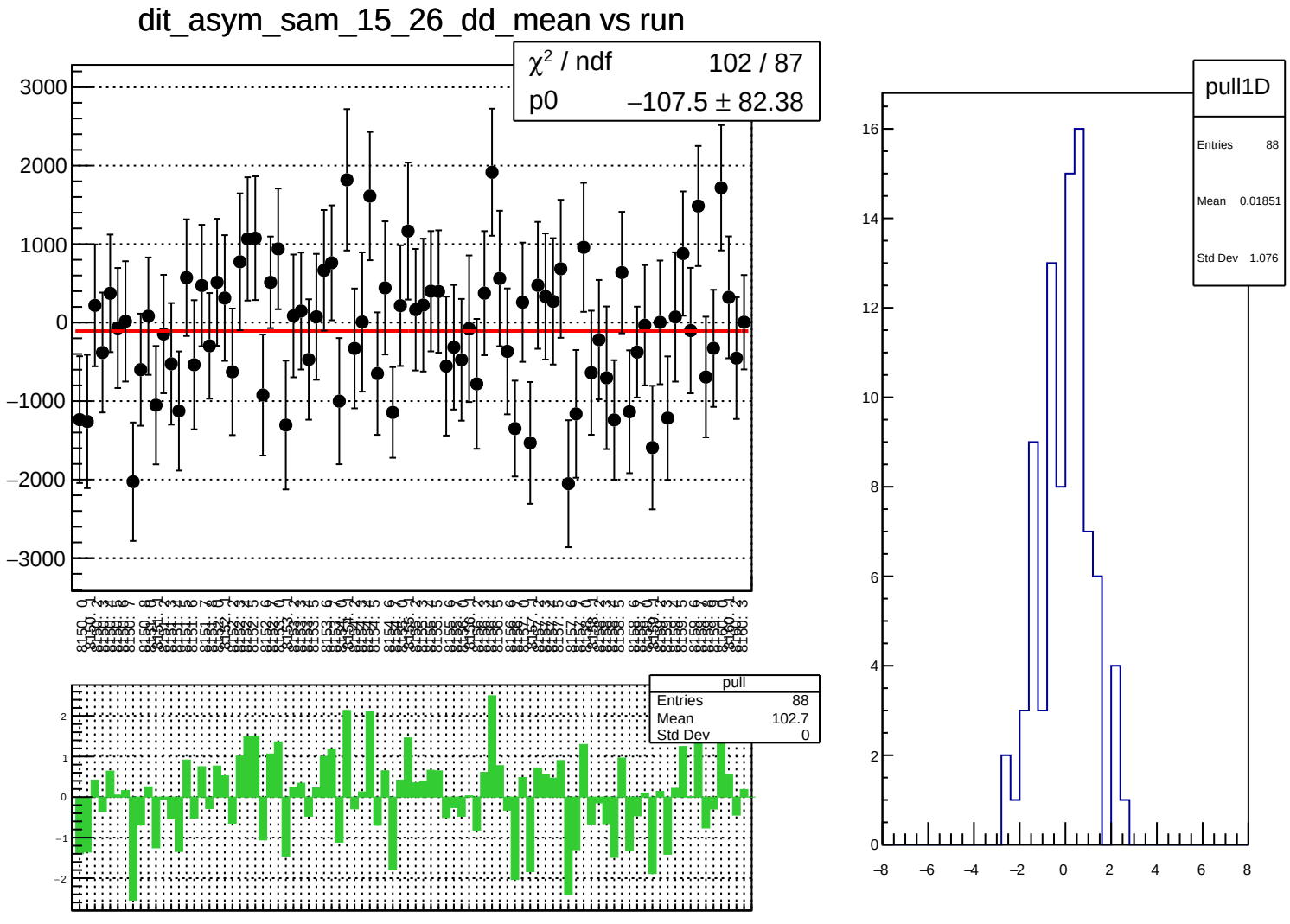
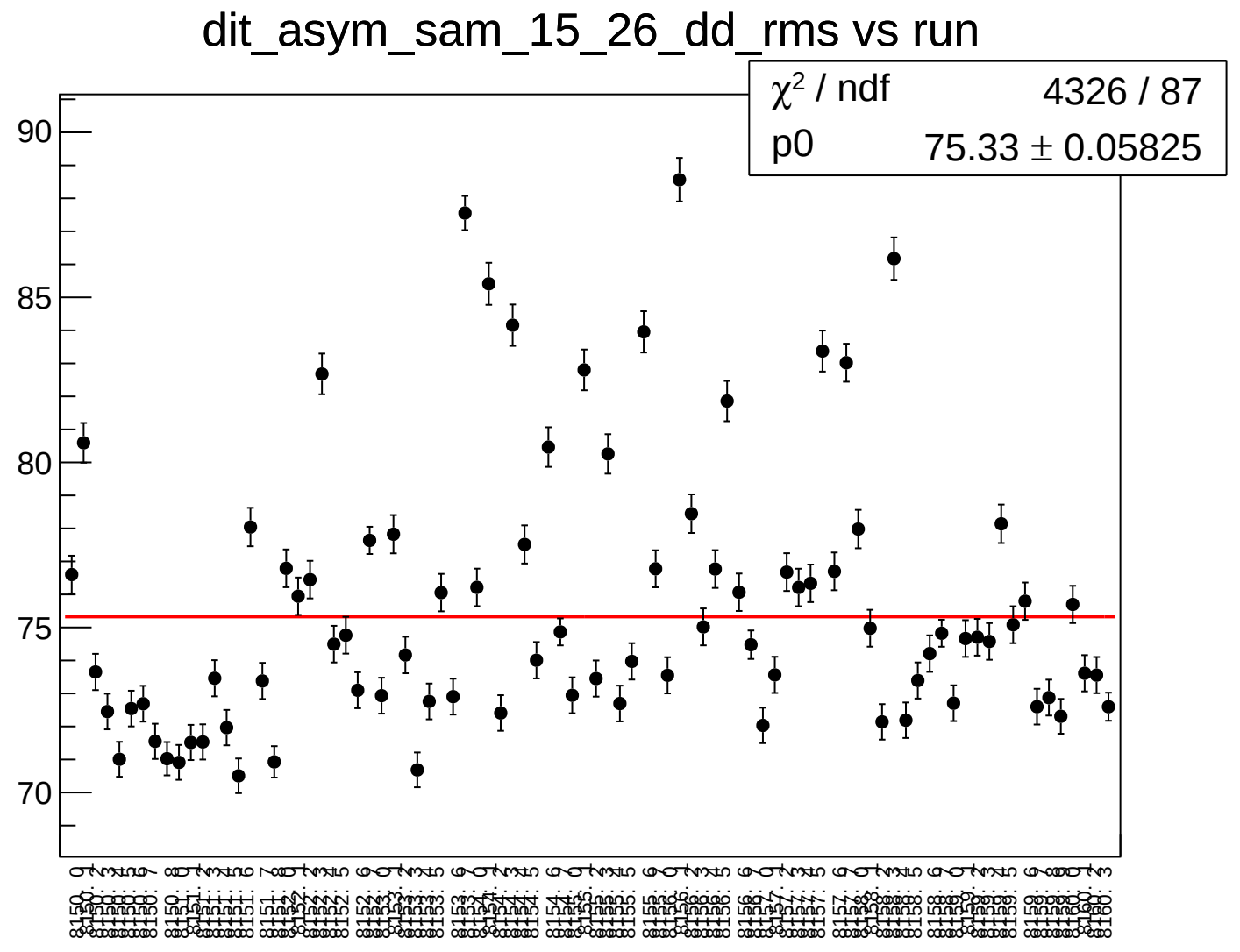
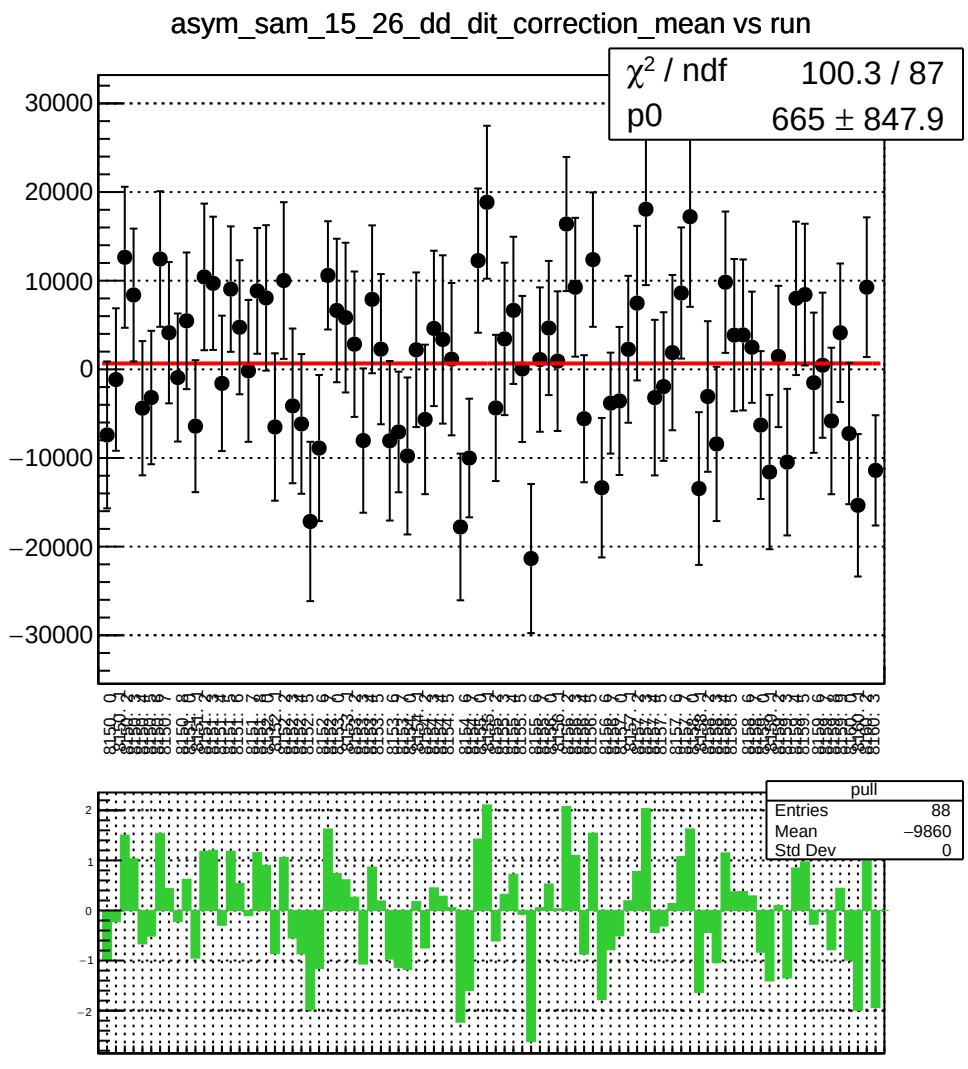
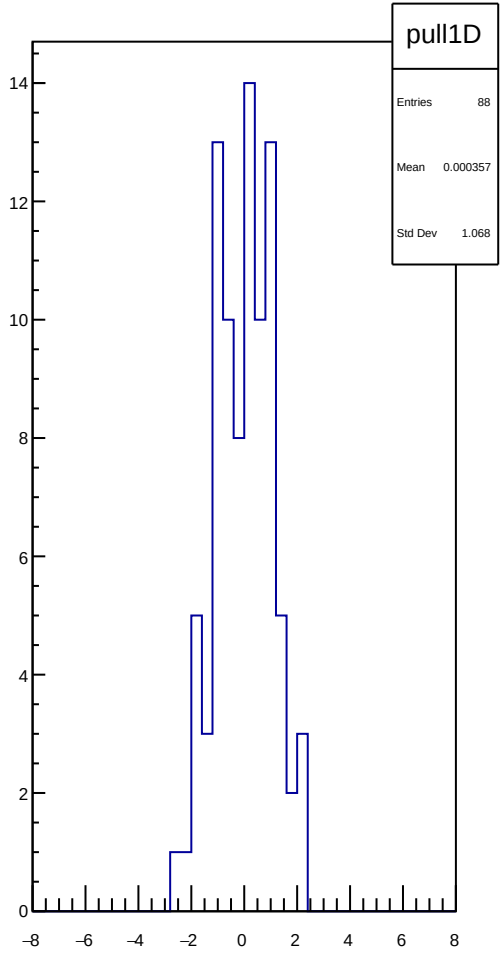
2
4
6
8

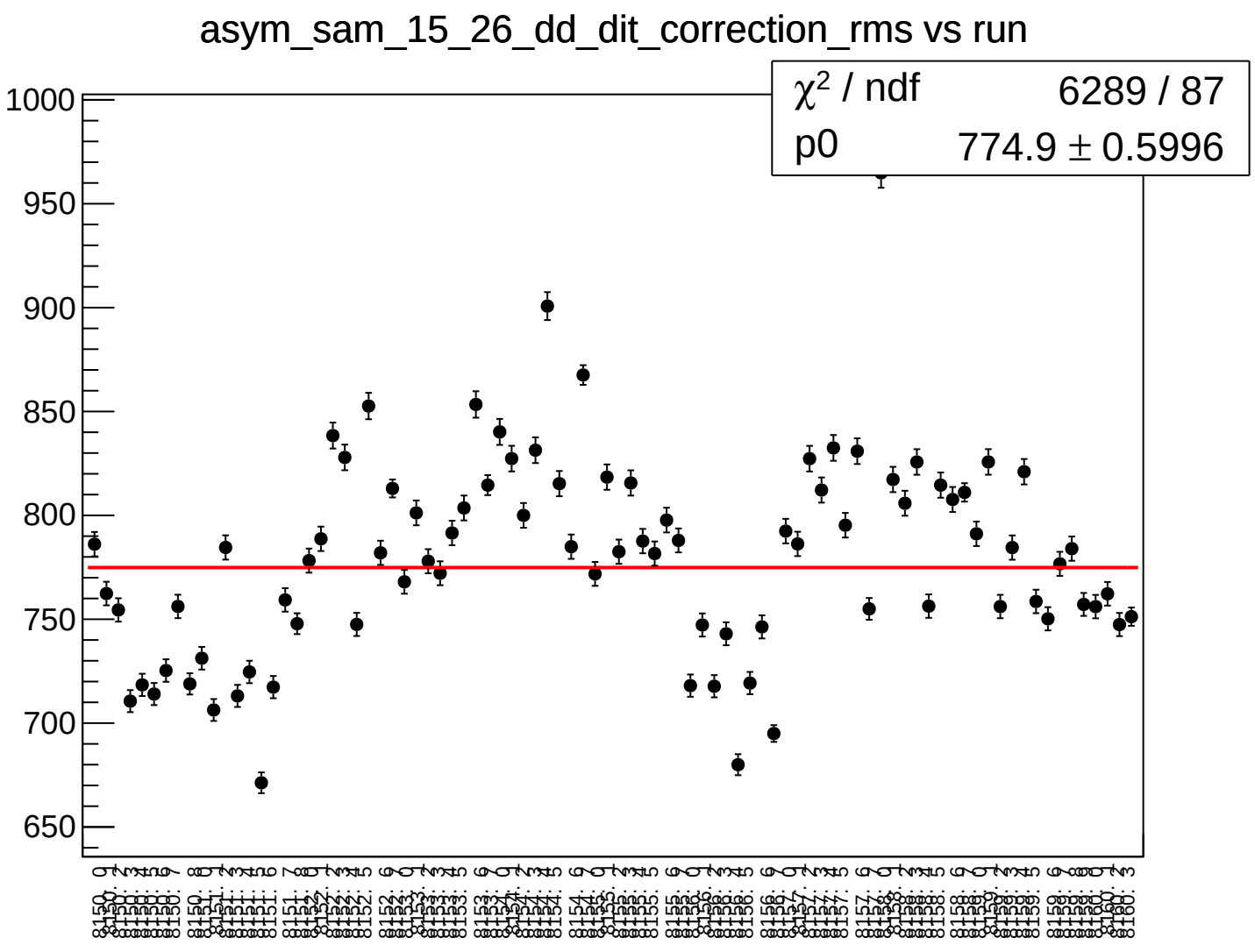

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5787 / 87
p0 765.8 ± 0.5924
950
900
850
800
750
700
650

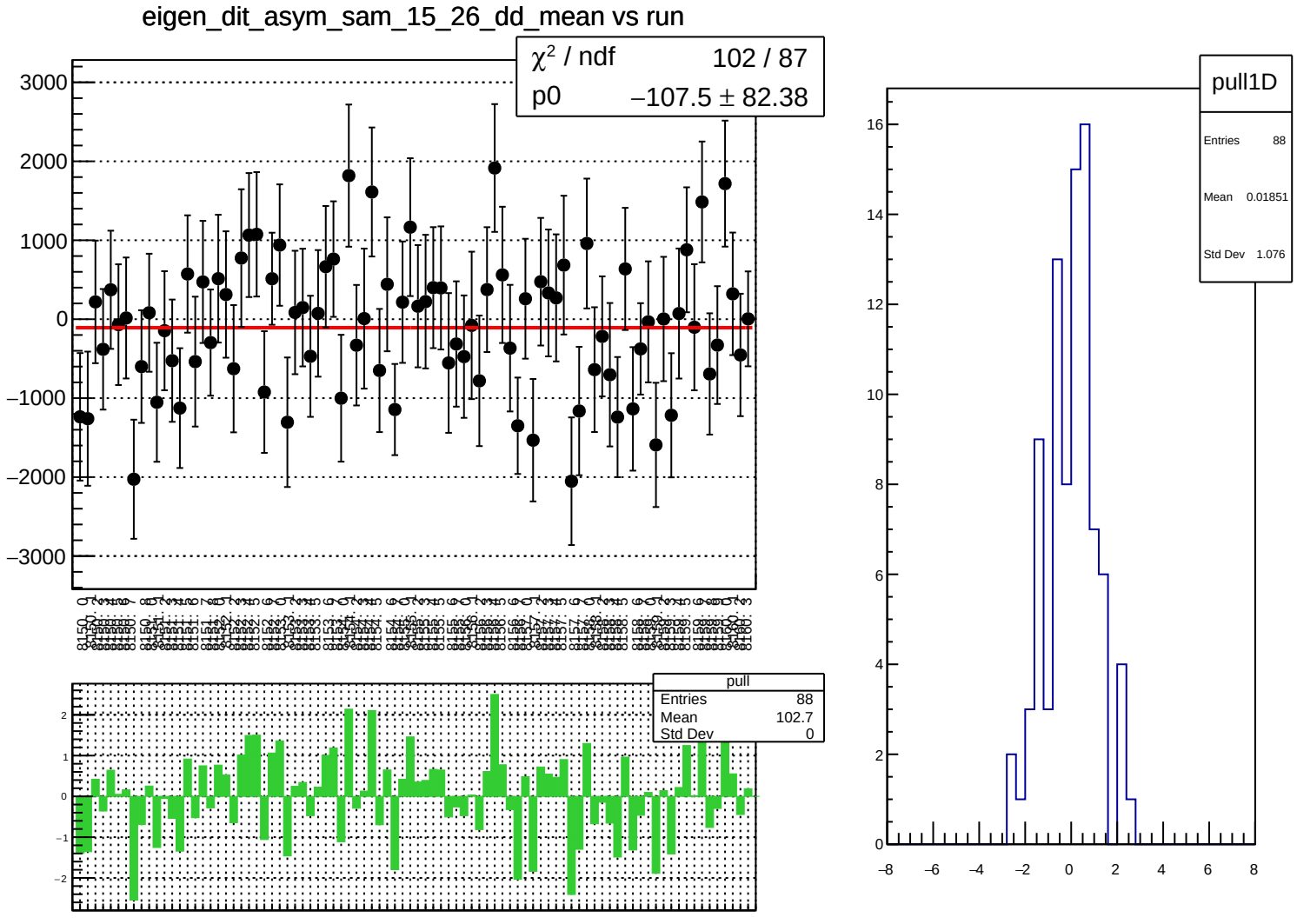

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 102 / 87
p0 −107.5 ± 82.38
pull
Entries 88
Mean 102.7
Std Dev 0
pull1D
Entries 88
Mean 0.01851
Std Dev 1.076

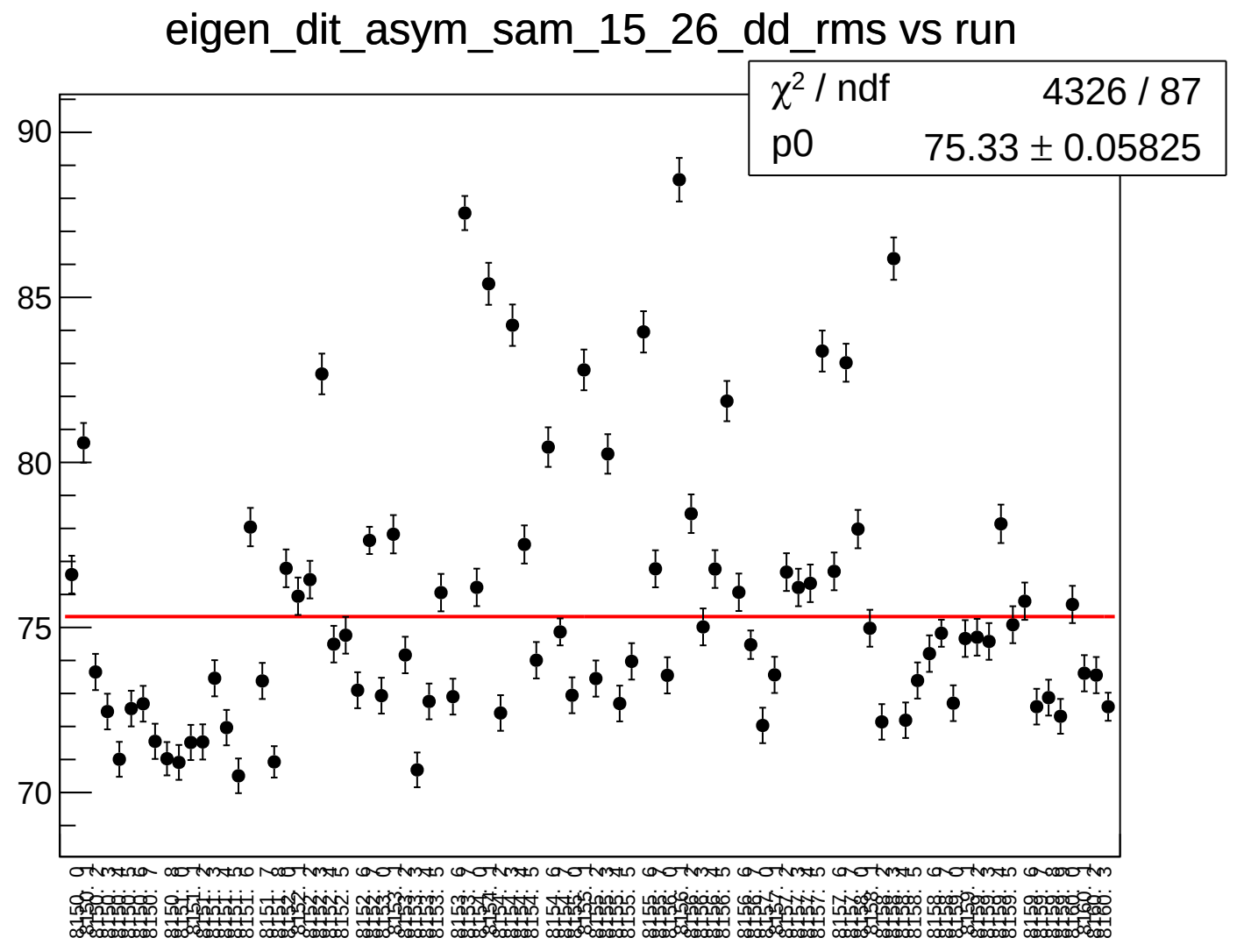

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 4326 / 87
p0 75.33 ± 0.05825
90
85
80
75
70

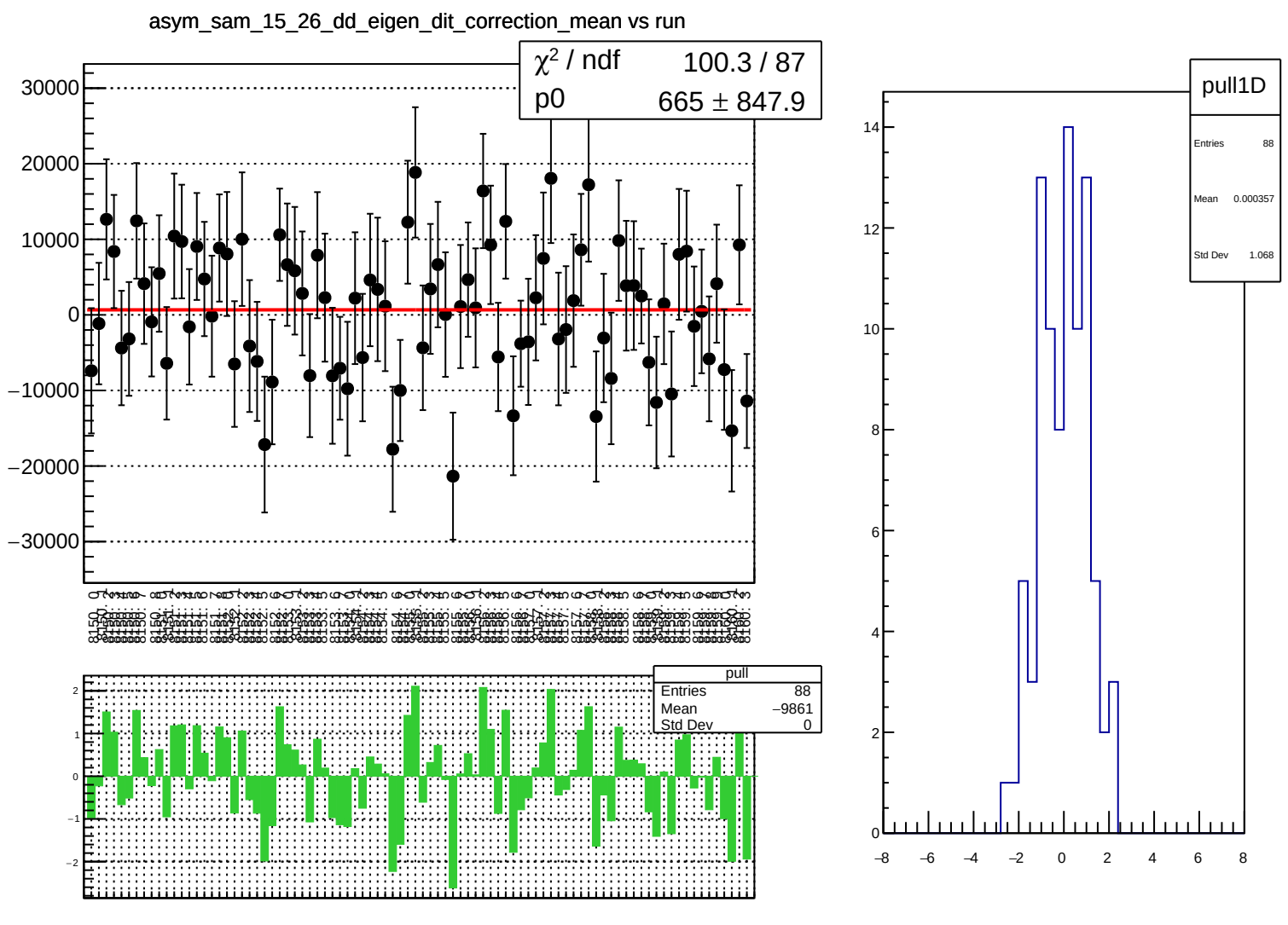

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 100.3 / 87
p0 665 ± 847.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −9860
Std Dev 0
2
1
0
−1
−2

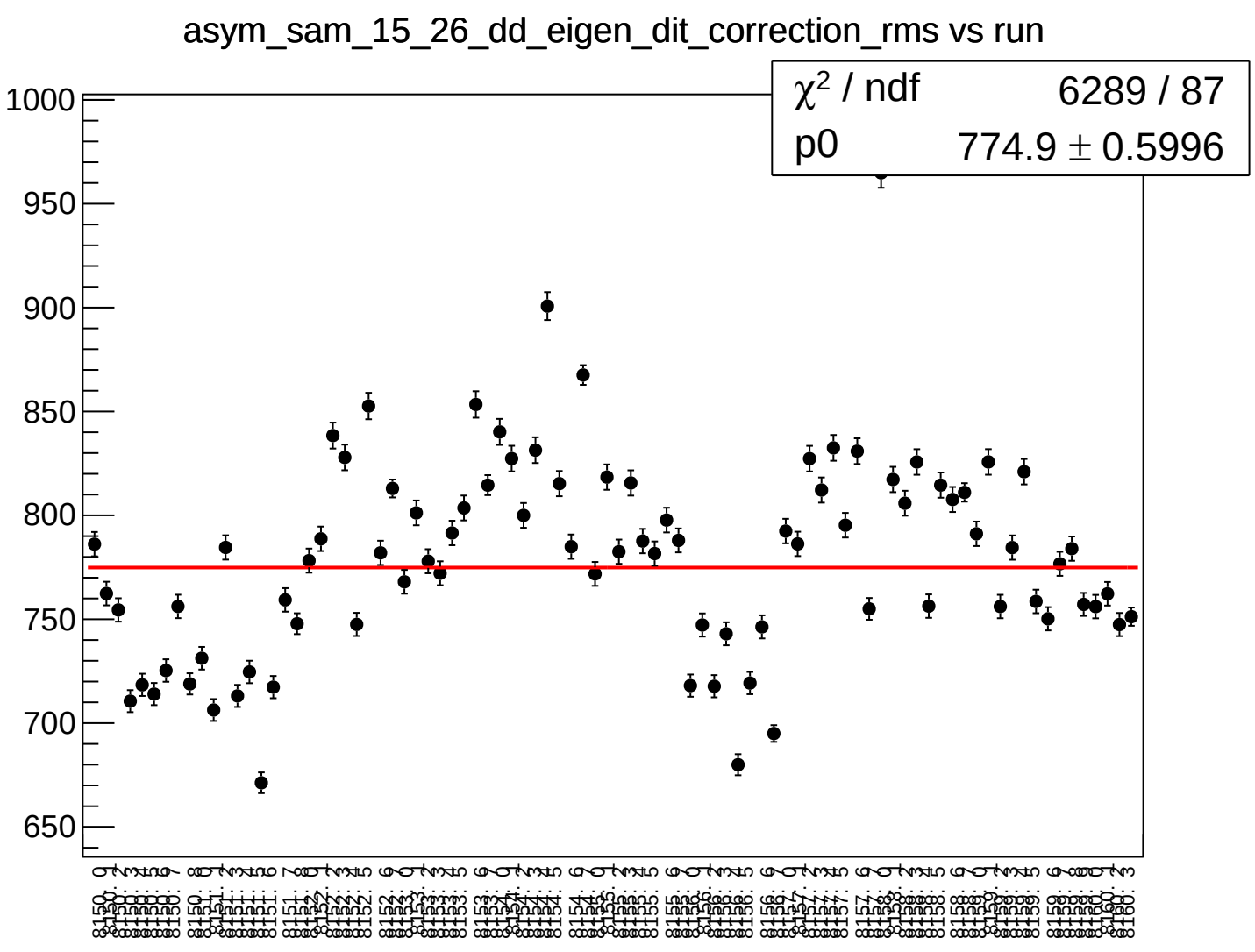

pull1D
Entries 88
Mean 0.000357
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

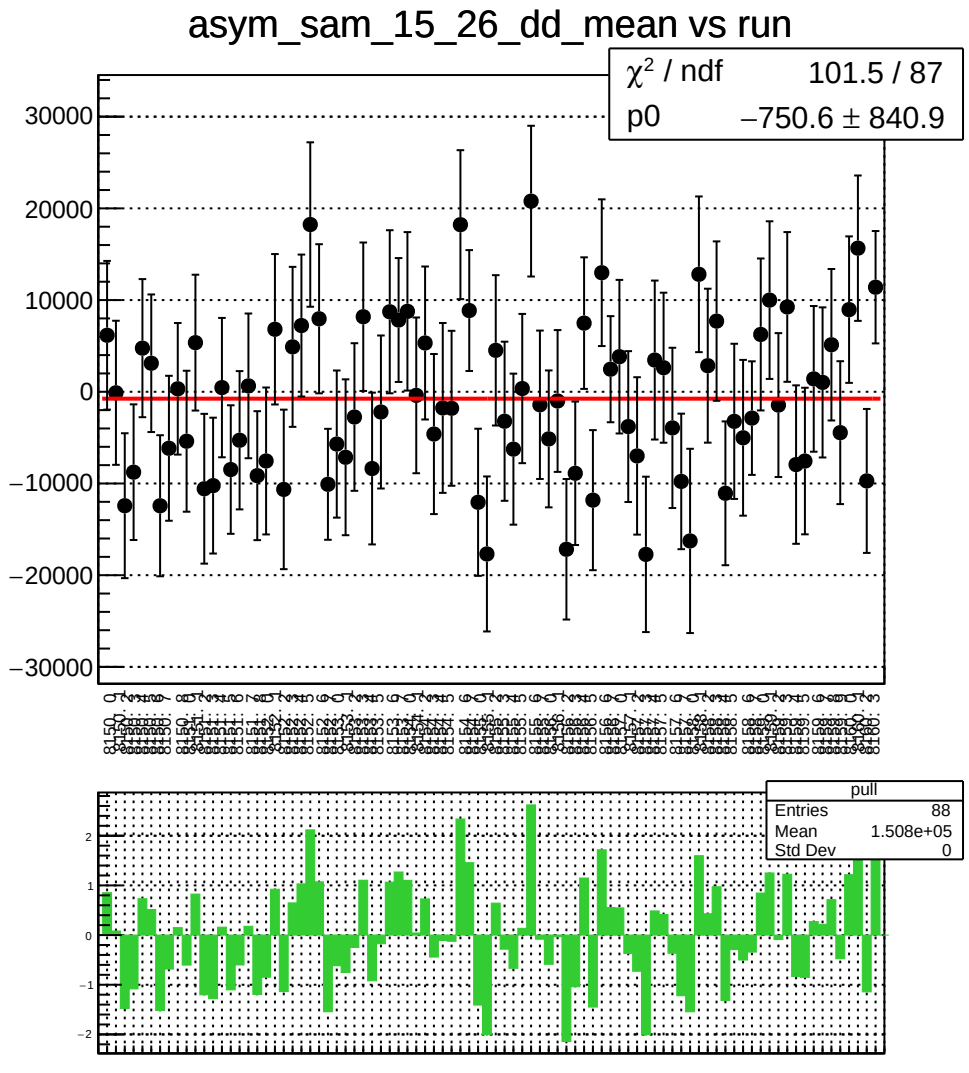

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 6289 / 87
p0 774.9 ± 0.5996
1000
950
900
850
800
750
700
650

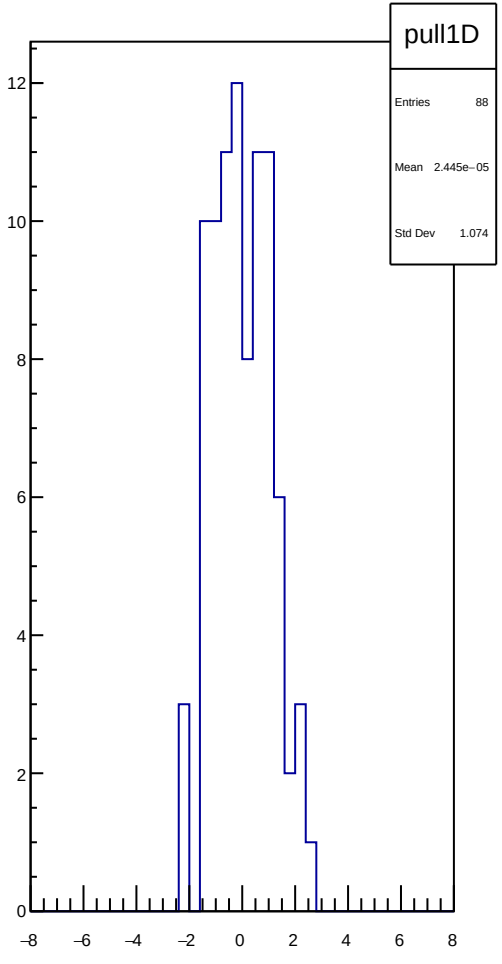

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 102 / 87
p0 −107.5 ± 82.38
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 102.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01851
Std Dev 1.076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

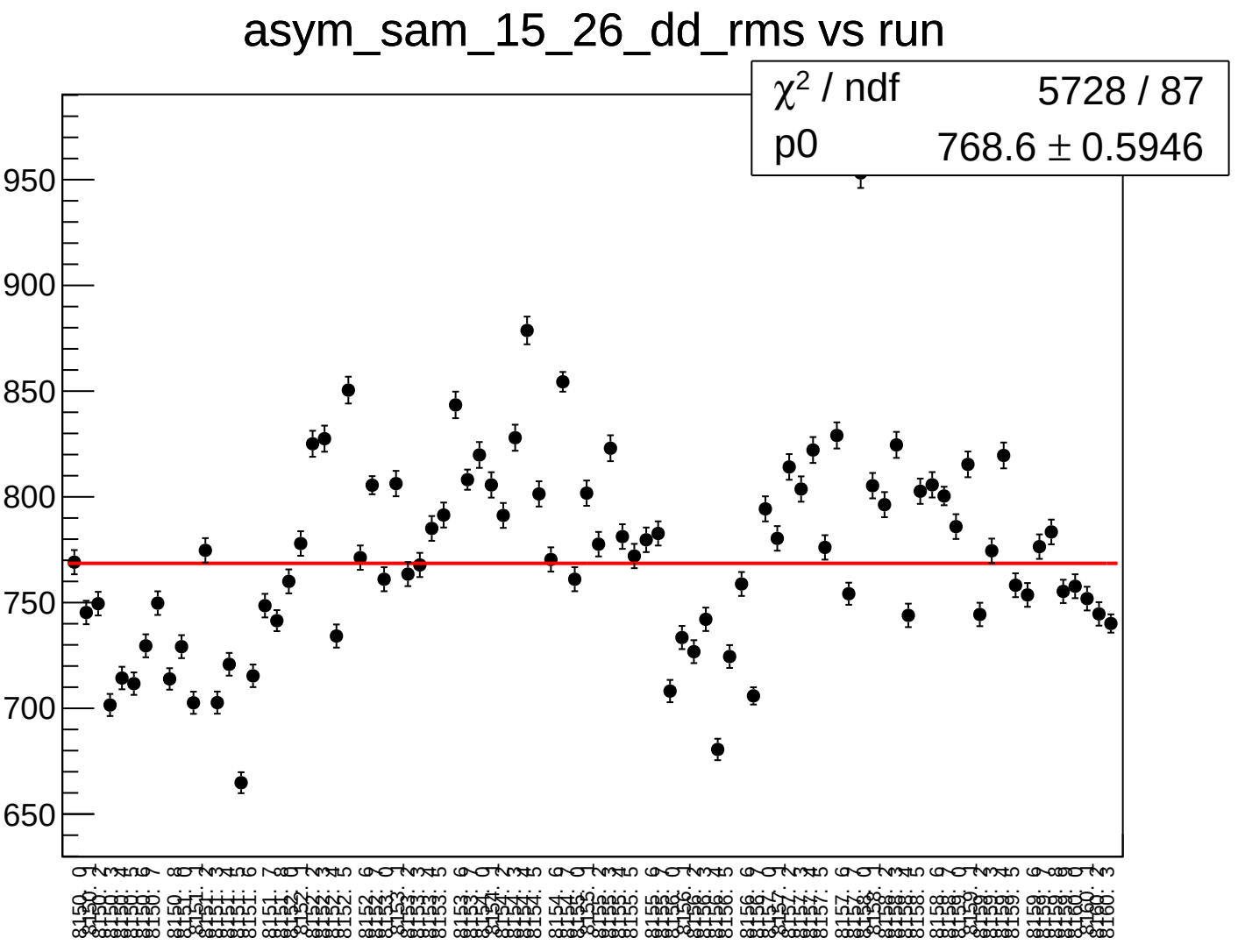

eigen_dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 4326 / 87
p0 75.33 ± 0.05825
90
85
80
75
70

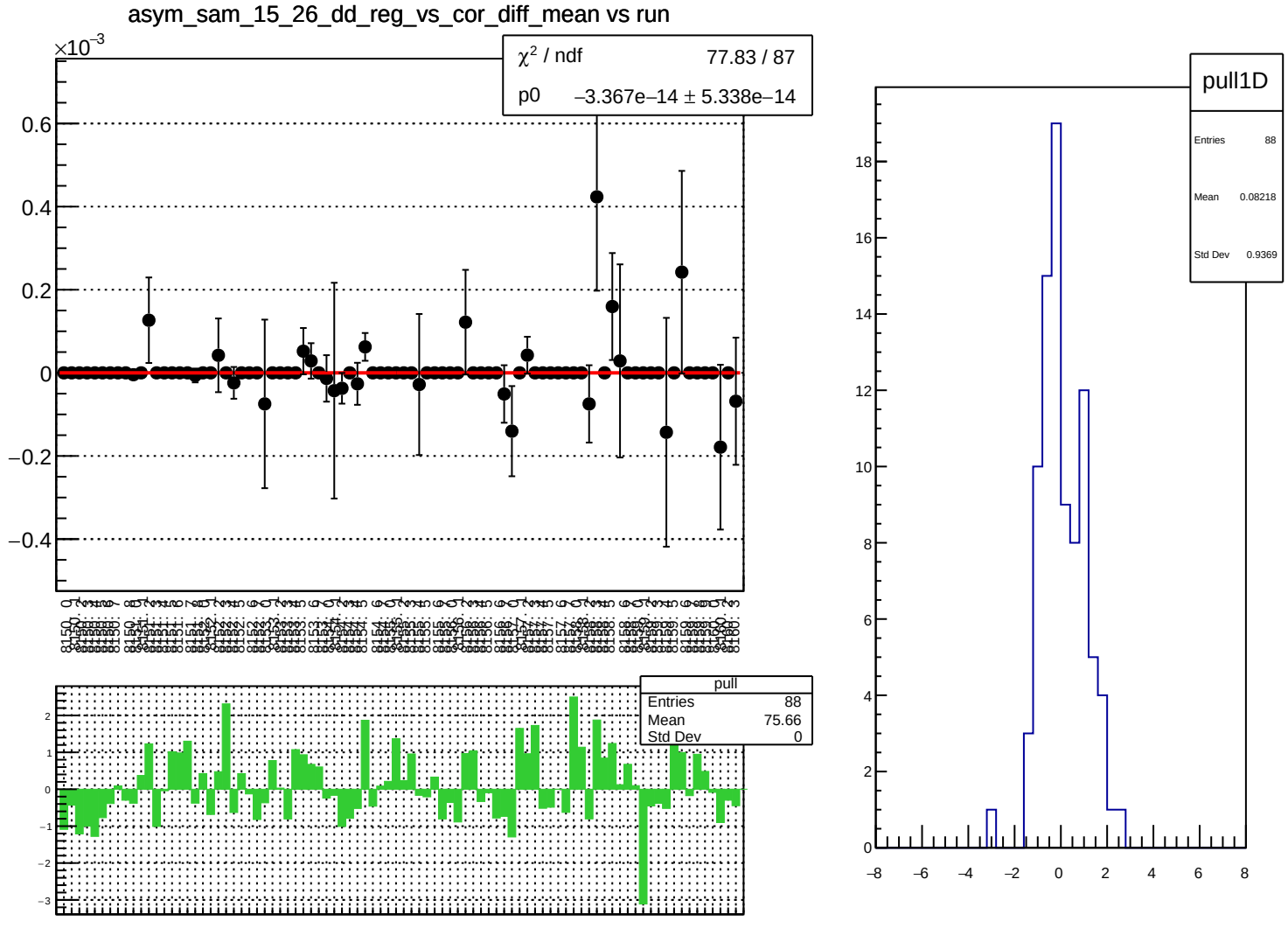

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.3 / 87
p0 665 ± 847.9
pull
Entries 88
Mean −9861
Std Dev 0
pull1D
Entries 88
Mean 0.000357
Std Dev 1.068

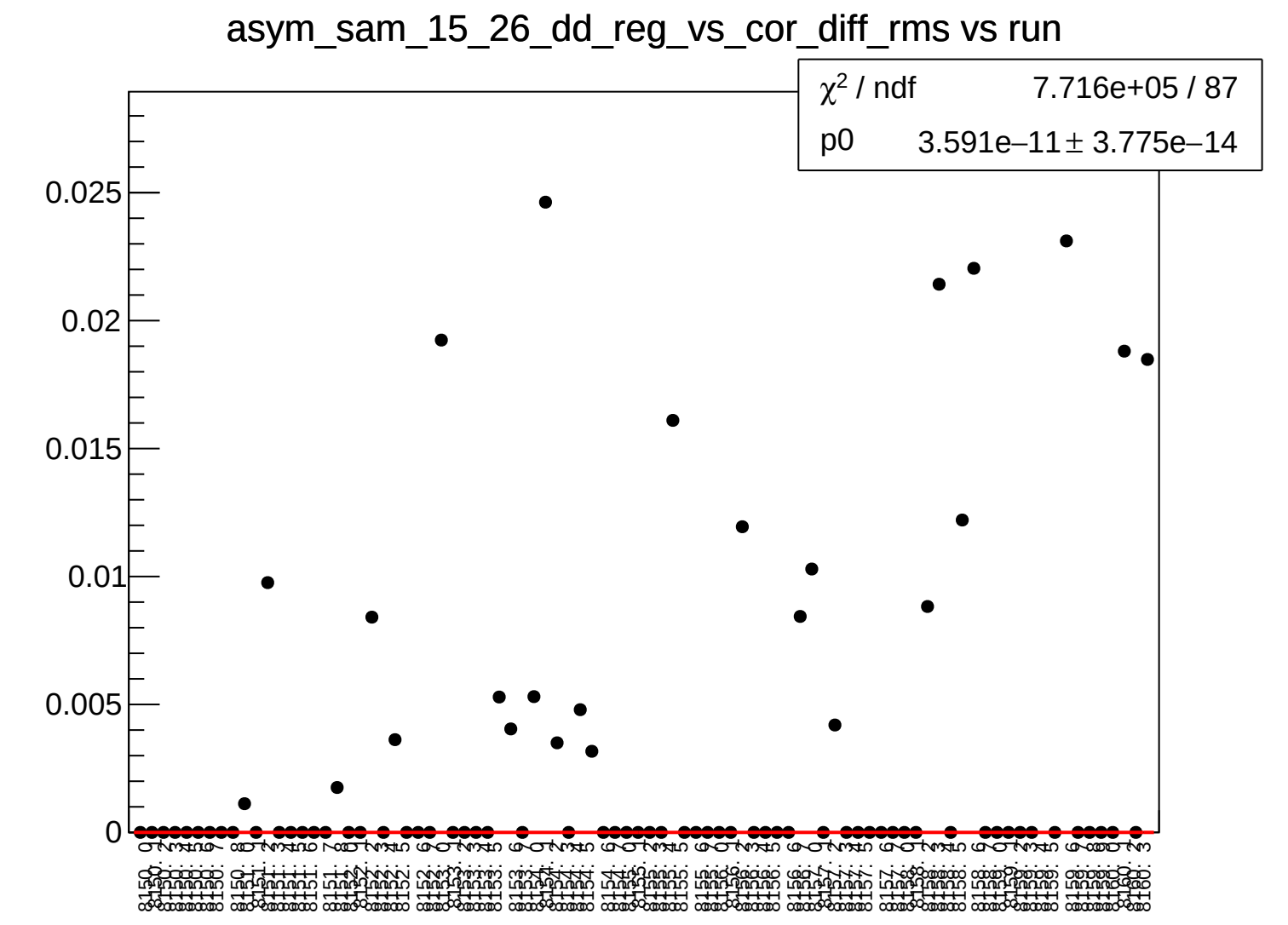

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6289 / 87
p0 774.9 ± 0.5996
1000
950
900
850
800
750
700
650

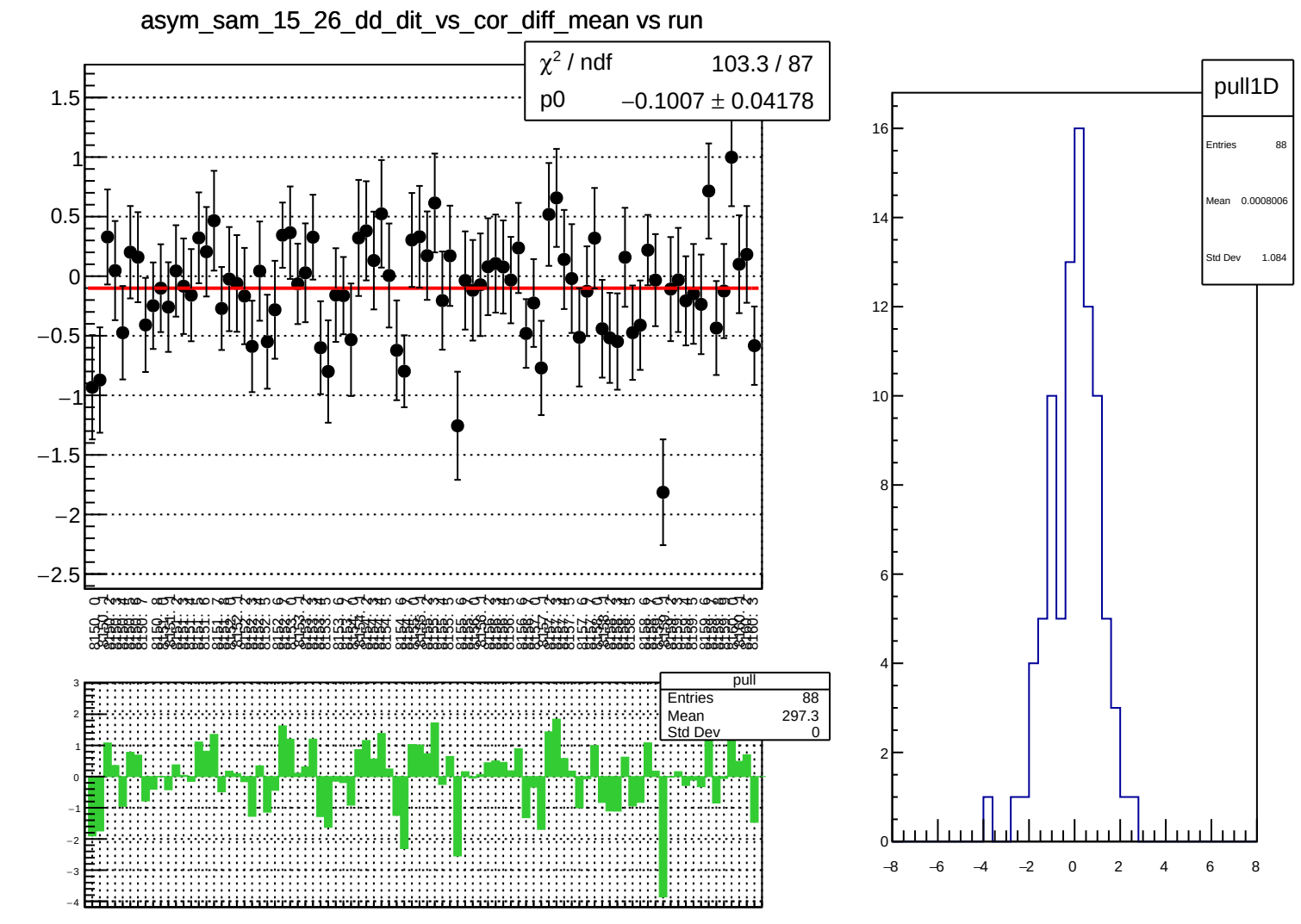

asym_sam_15_26_dd_mean vs run
χ² / ndf 101.5 / 87
p0 −750.6 ± 840.9
pull
Entries 88
Mean 1.508e+05
Std Dev 0

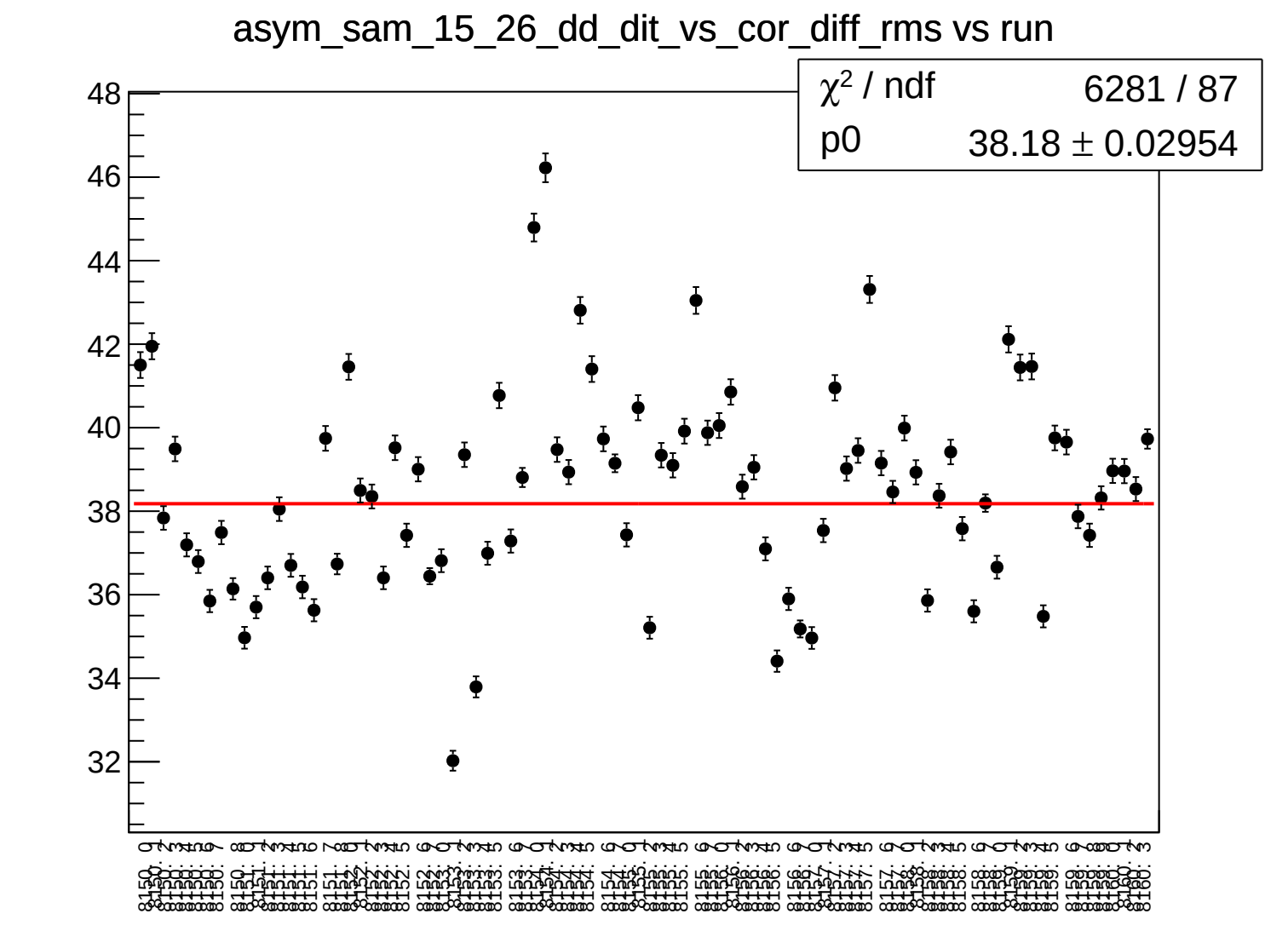

pull1D
Entries 88
Mean 2.445e−05
Std Dev 1.074

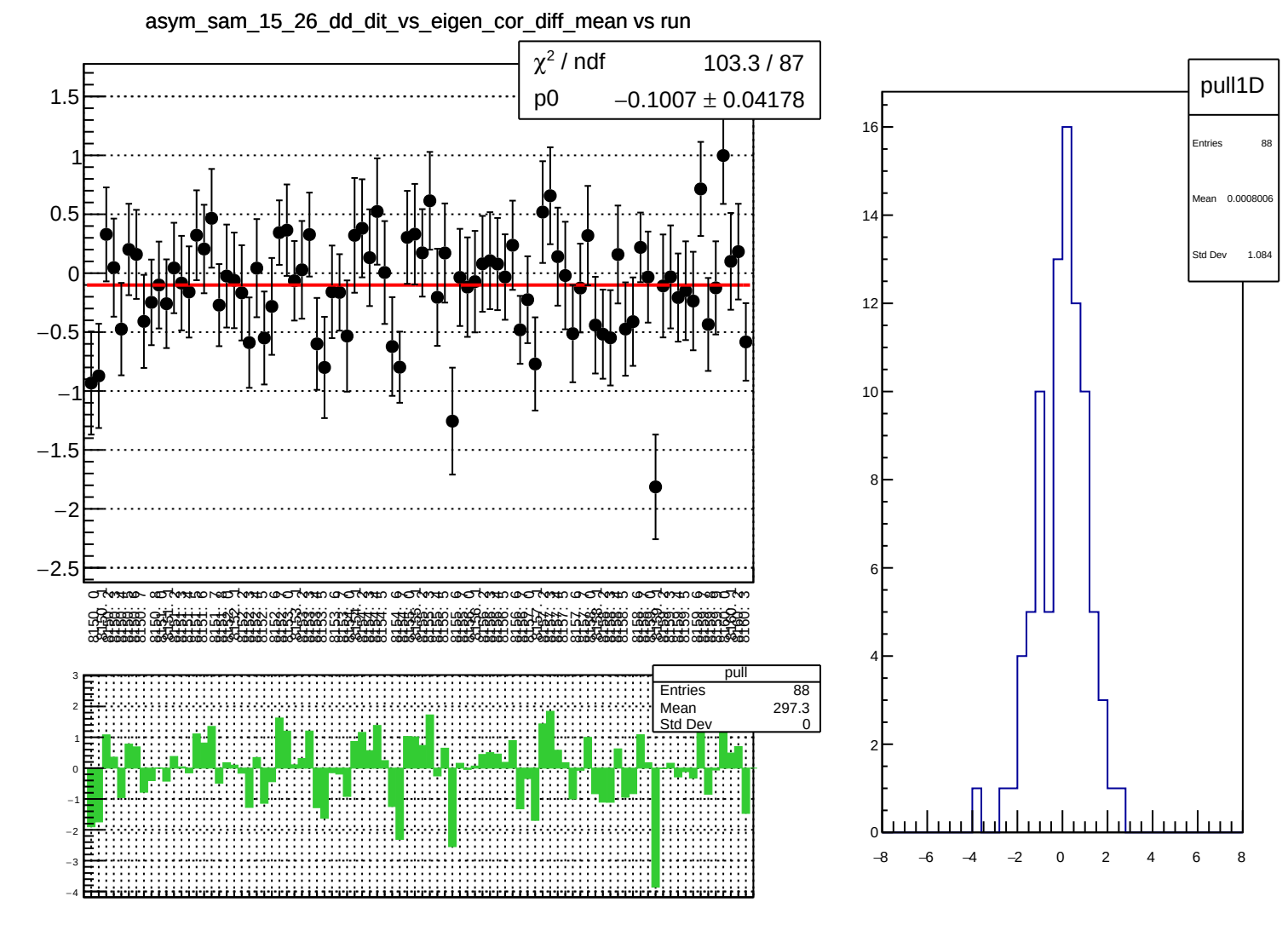

asym_sam_15_26_dd_rms vs run
χ² / ndf 5728 / 87
p0 768.6 ± 0.5946
950
900
850
800
750
700
650

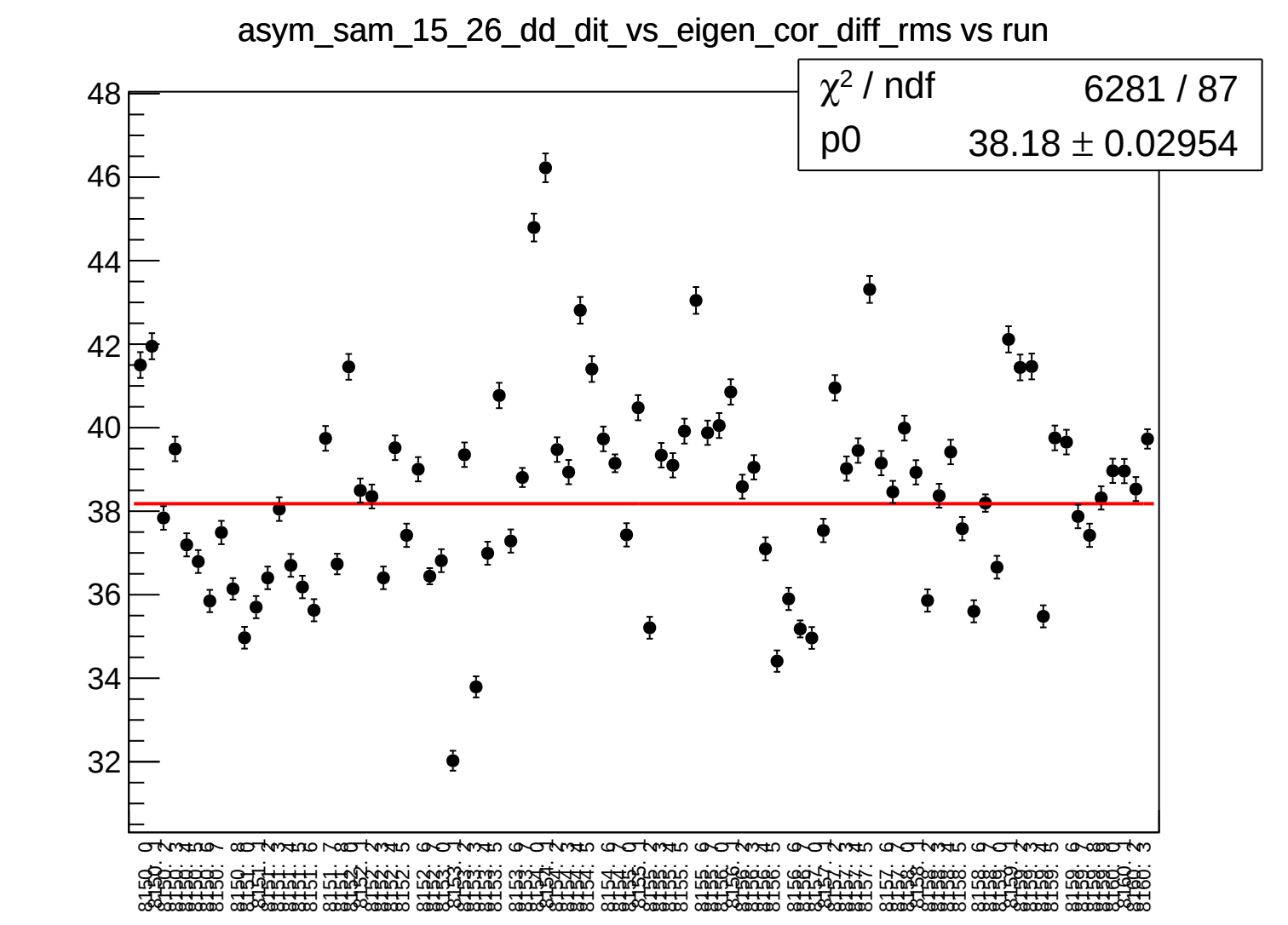

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 77.83 / 87
p0 −3.367e−14 ± 5.338e−14
pull
Entries 88
Mean 75.66
Std Dev 0
pull1D
Entries 88
Mean 0.08218
Std Dev 0.9369

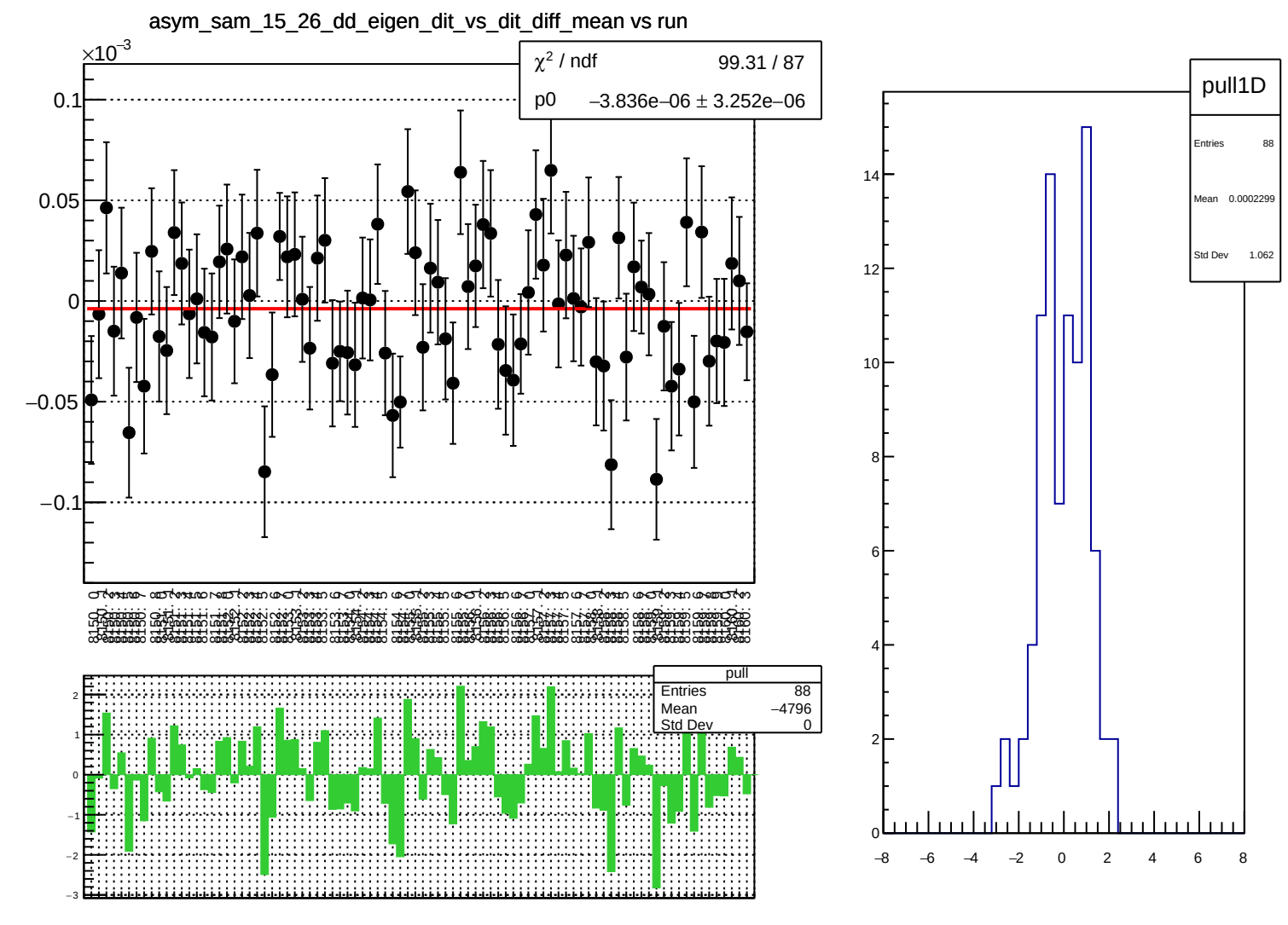

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.716e+05 / 87
p0 3.591e−11 ± 3.775e−14
0.025
0.02
0.015
0.01
0.005
0

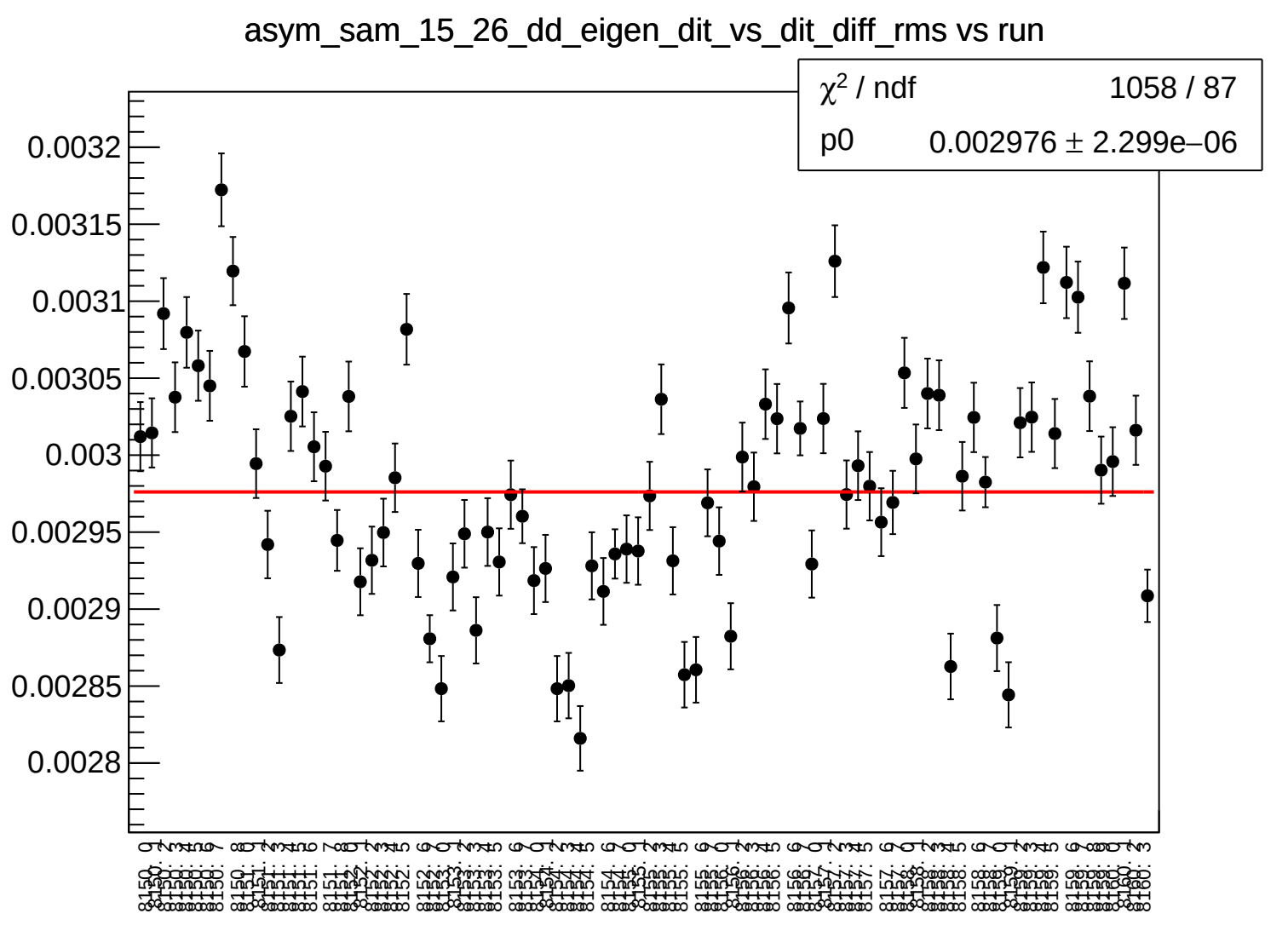

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.3 / 87
p0 −0.1007 ± 0.04178
pull
Entries 88
Mean 297.3
Std Dev 0
pull1D
Entries 88
Mean 0.0008006
Std Dev 1.084

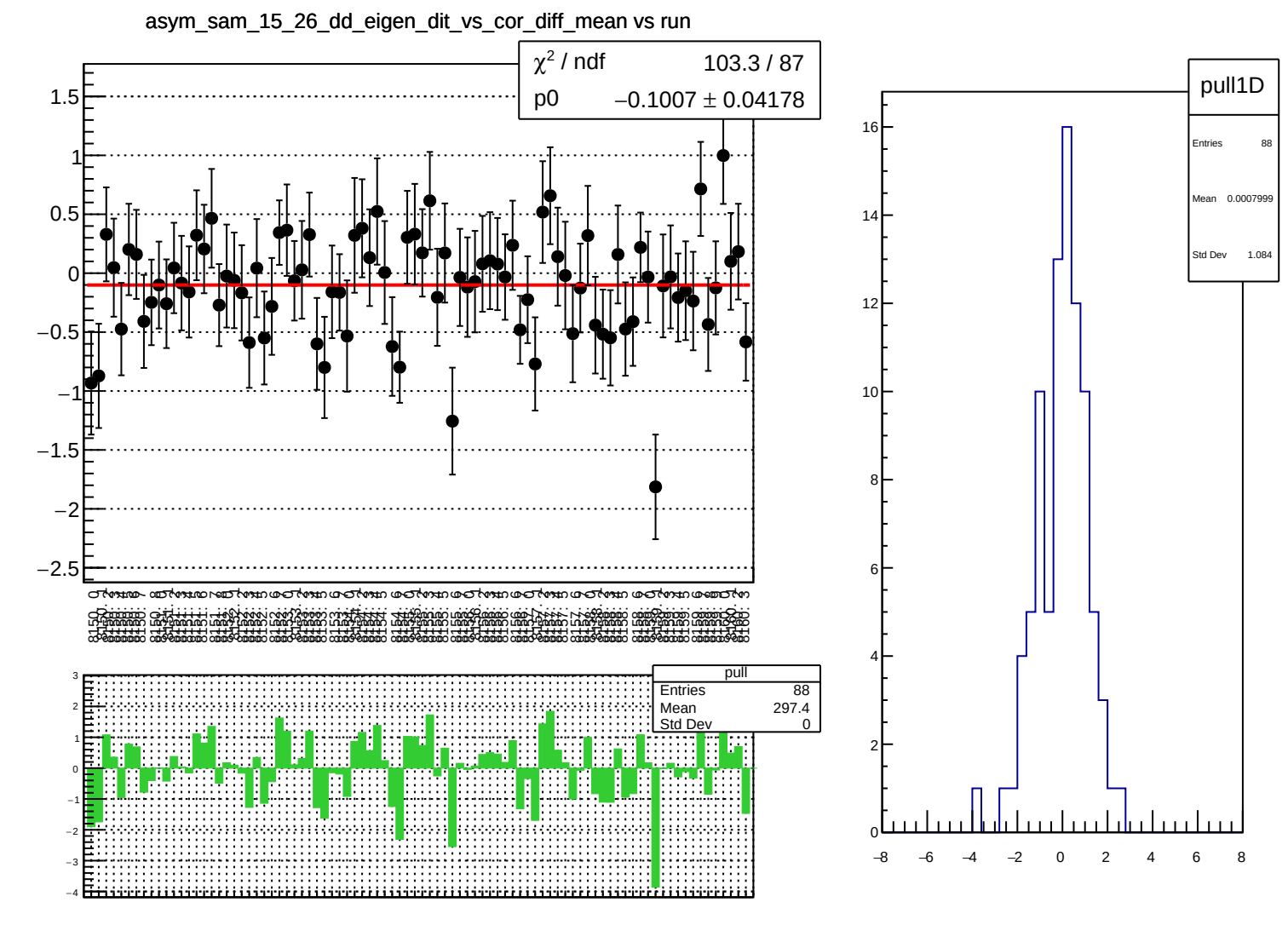

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6281 / 87
p0 38.18 ± 0.02954
48
46
44
42
40
38
36
34
32

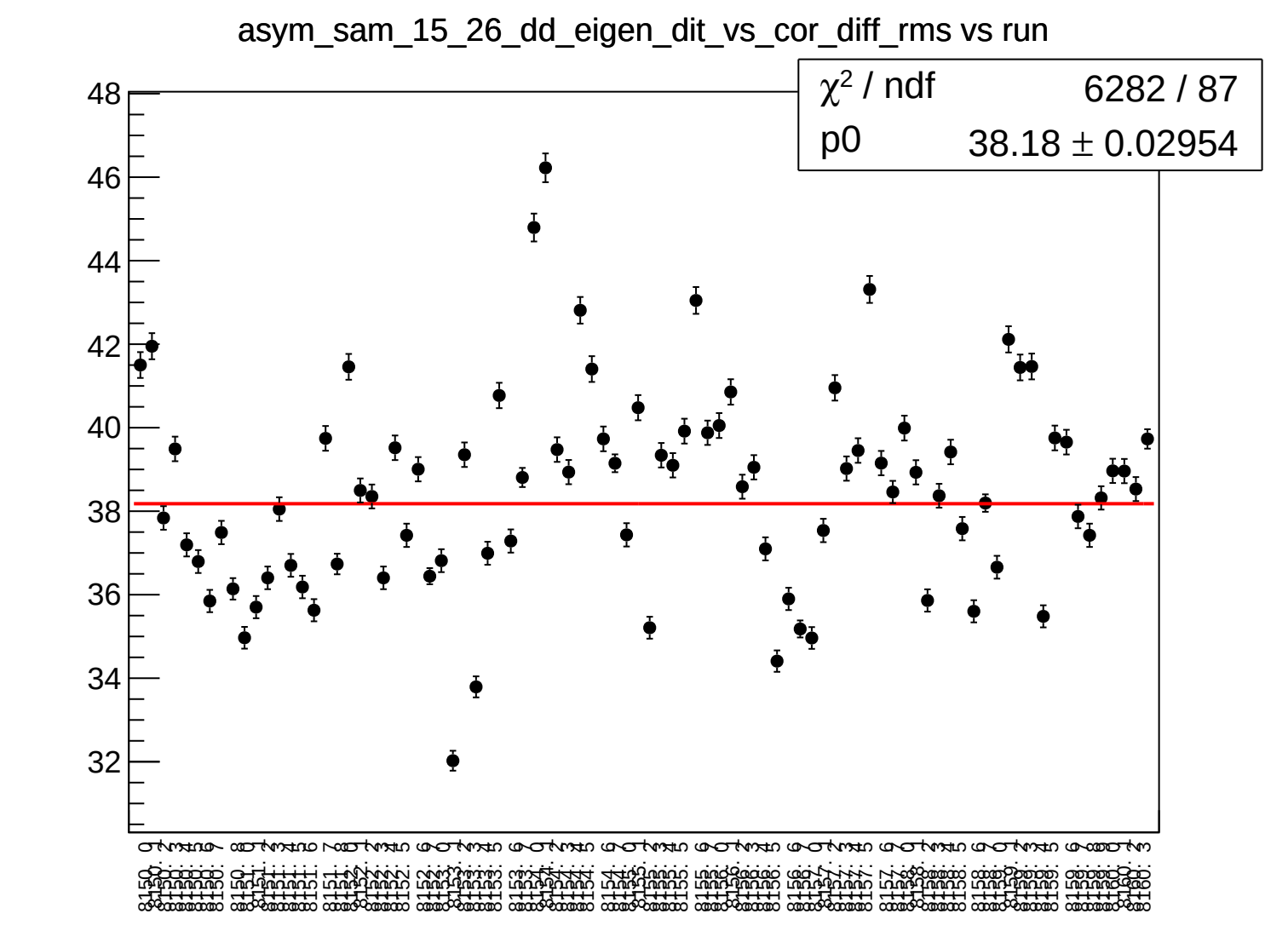

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.3 / 87
p0 −0.1007 ± 0.04178
pull
Entries 88
Mean 297.3
Std Dev 0
pull1D
Entries 88
Mean 0.0008006
Std Dev 1.084

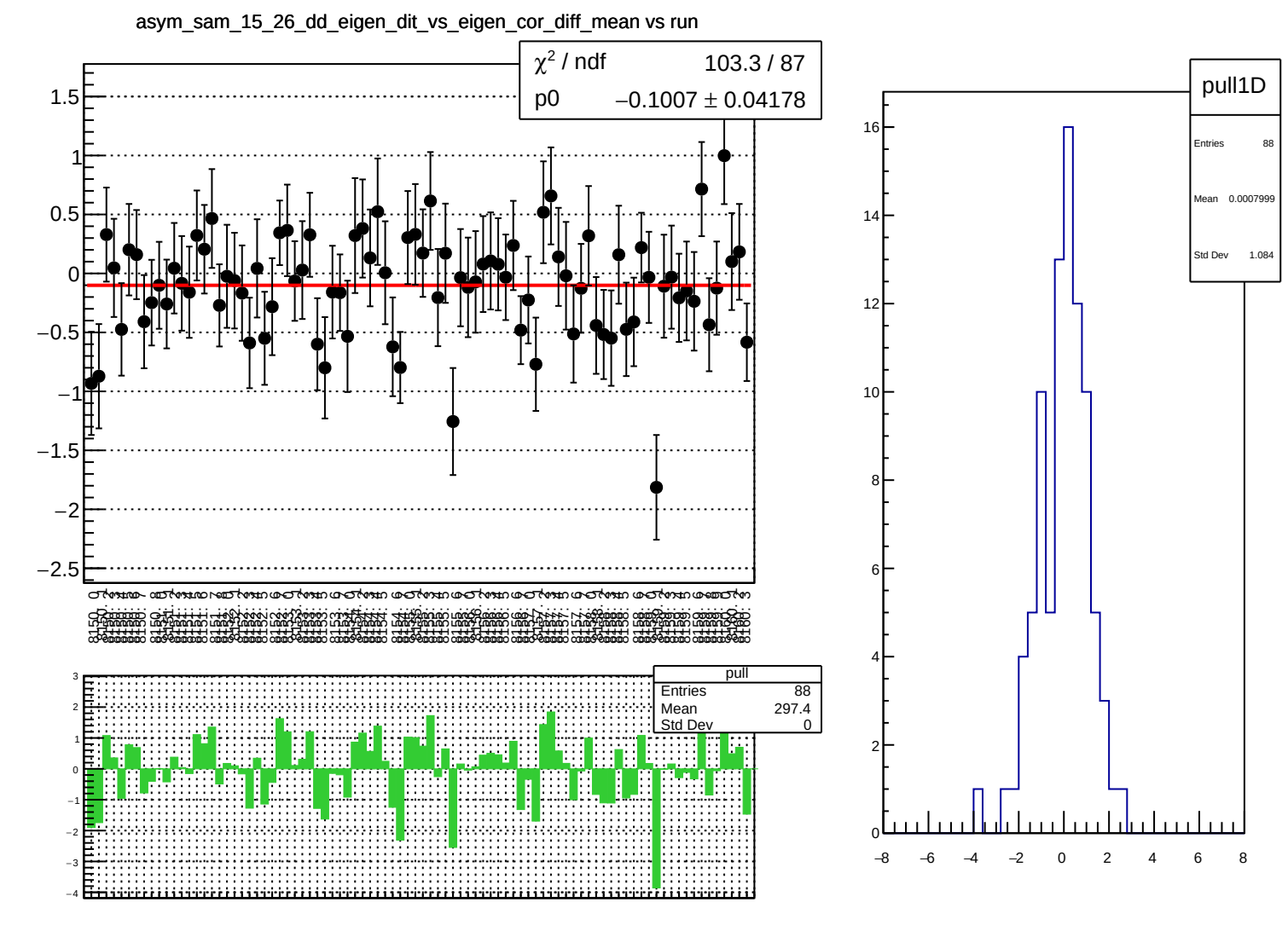

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6281 / 87
p0 38.18 ± 0.02954
48
46
44
42
40
38
36
34
32

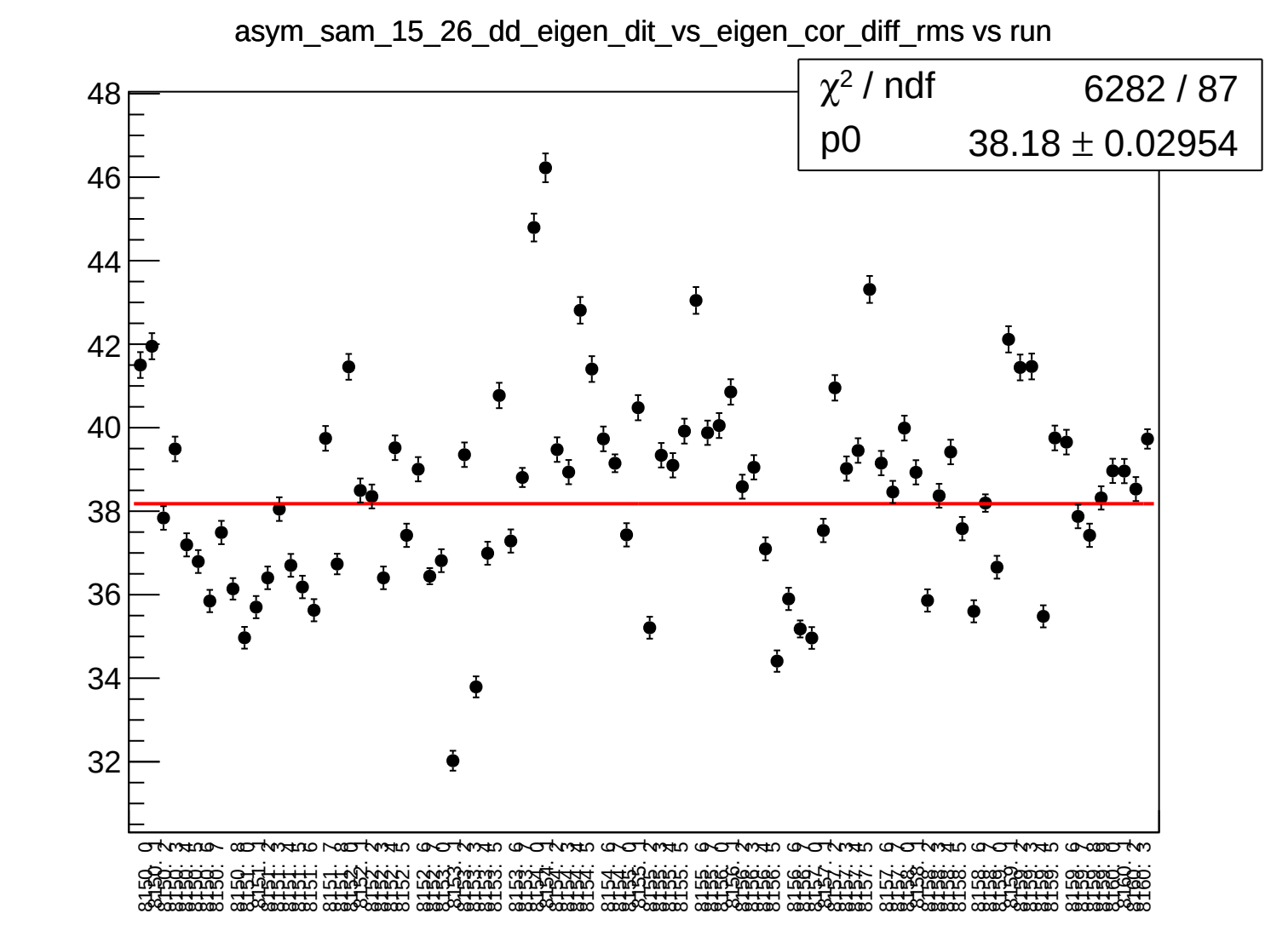

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 99.31 / 87
p0 −3.836e−06 ± 3.252e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −4796
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0002299
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

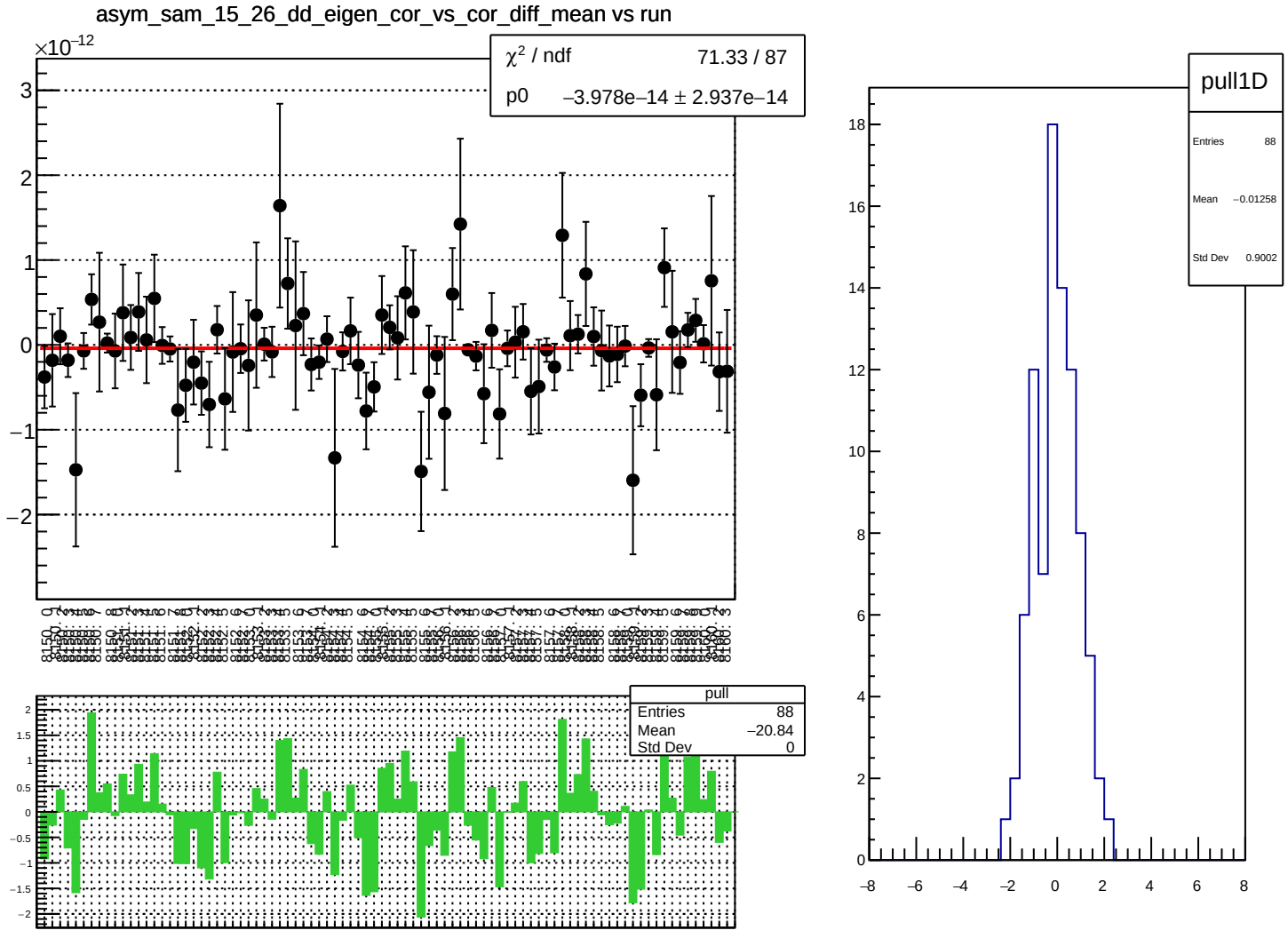

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1058 / 87
p0 0.002976 ± 2.299e−06
0.0032
0.00315
0.0031
0.00305
0.003
0.00295
0.0029
0.00285
0.0028

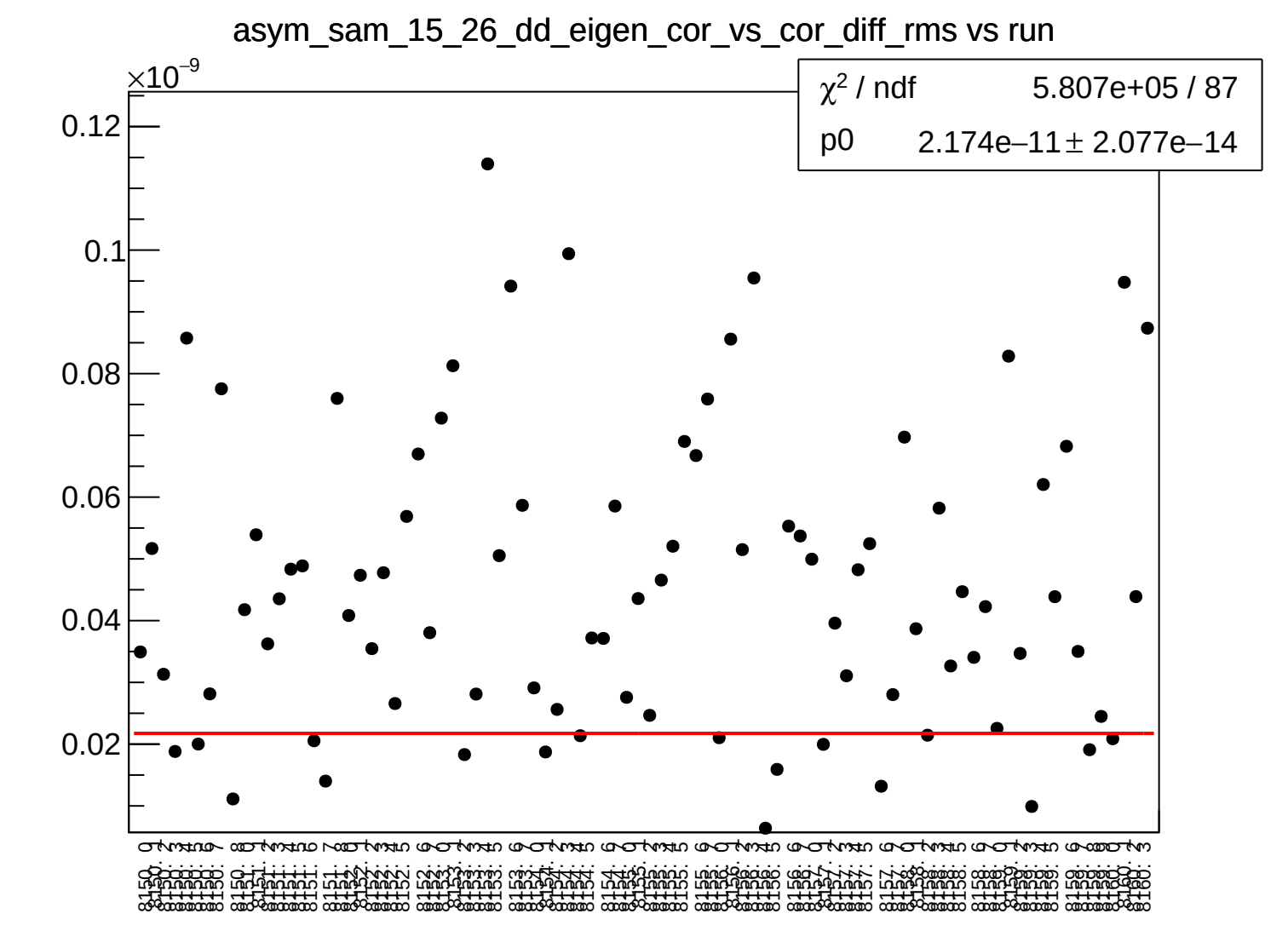

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.3 / 87
p0 −0.1007 ± 0.04178
pull
Entries 88
Mean 297.4
Std Dev 0
pull1D
Entries 88
Mean 0.0007999
Std Dev 1.084

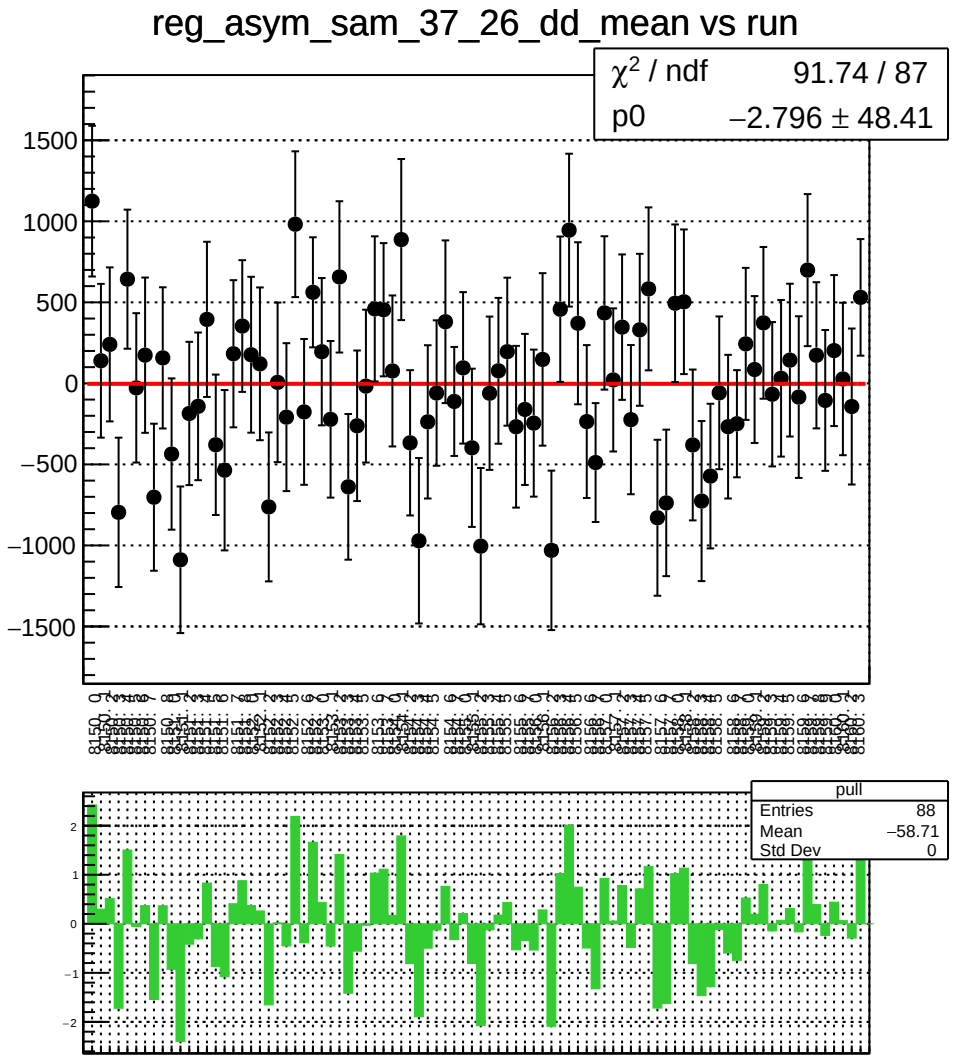

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6282 / 87
p0 38.18 ± 0.02954
48
46
44
42
40
38
36
34
32

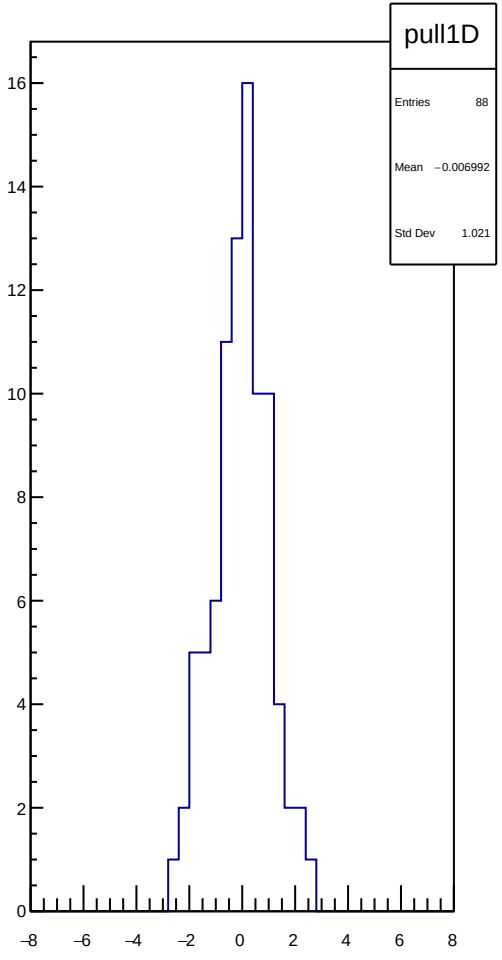

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.3 / 87
p0 −0.1007 ± 0.04178
pull
Entries 88
Mean 297.4
Std Dev 0
pull1D
Entries 88
Mean 0.0007999
Std Dev 1.084

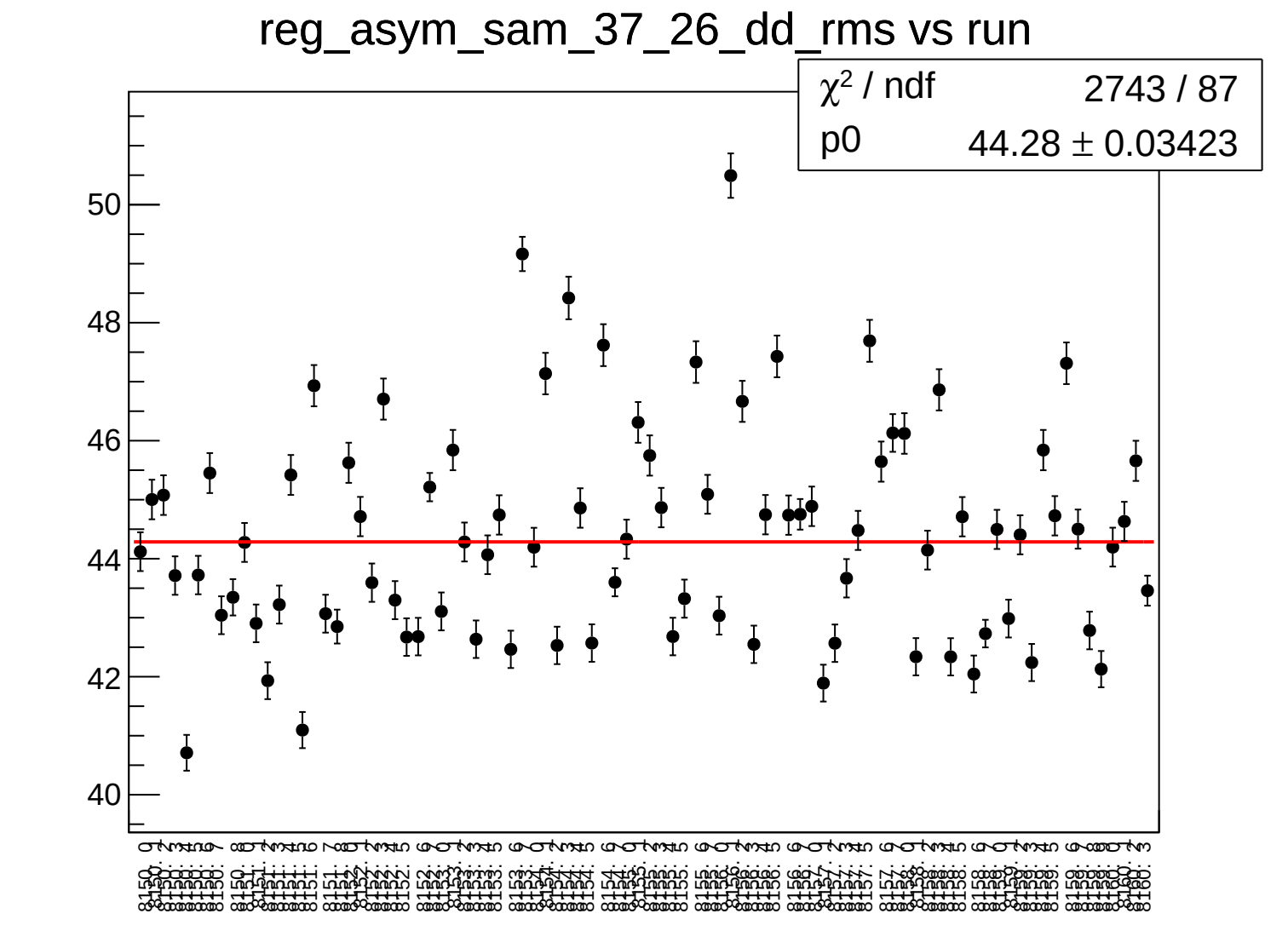

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6282 / 87
p0 38.18 ± 0.02954
48
46
44
42
40
38
36
34
32

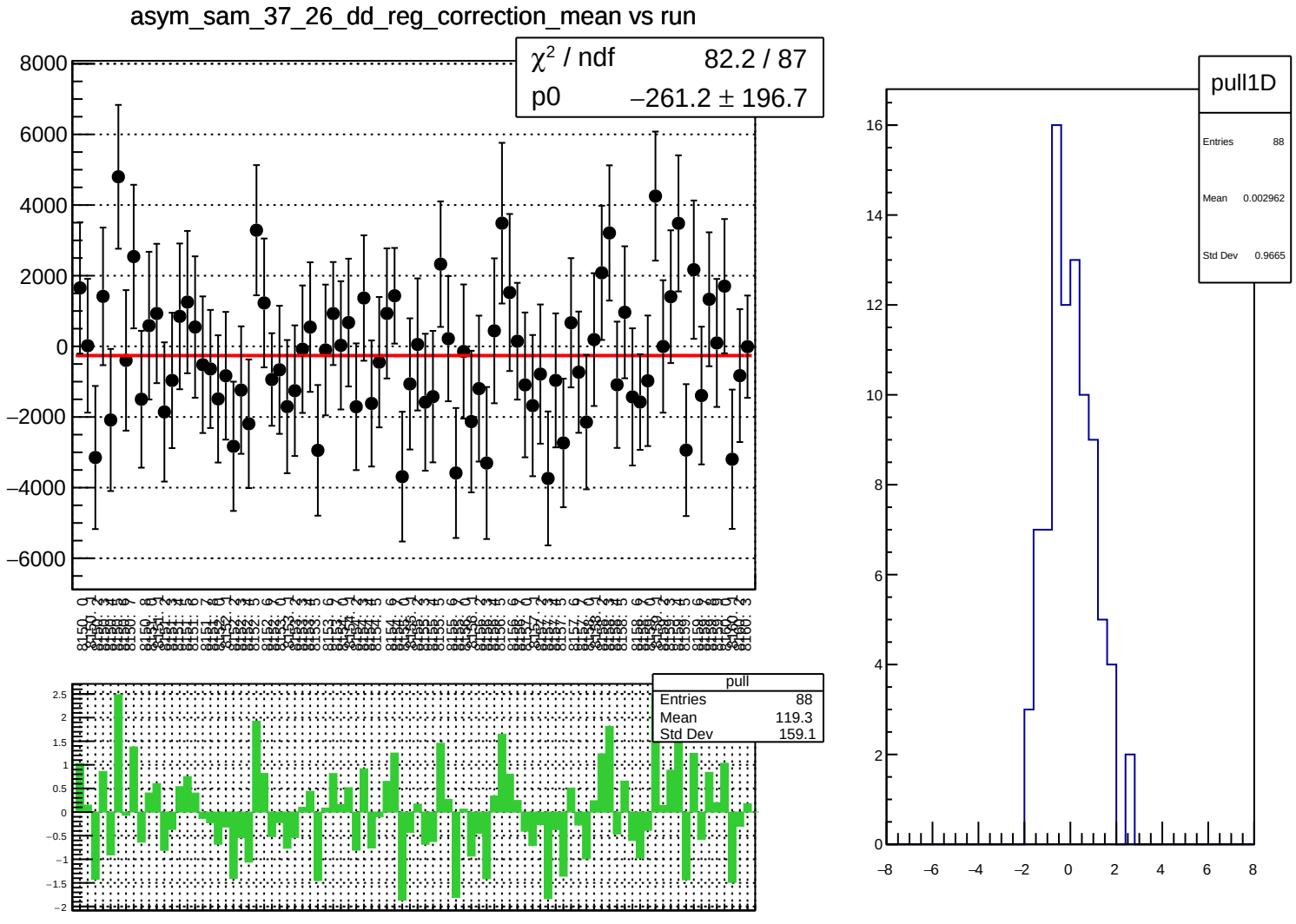

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.33 / 87
p0 −3.978e−14 ± 2.937e−14
pull
Entries 88
Mean −20.84
Std Dev 0
pull1D
Entries 88
Mean −0.01258
Std Dev 0.9002

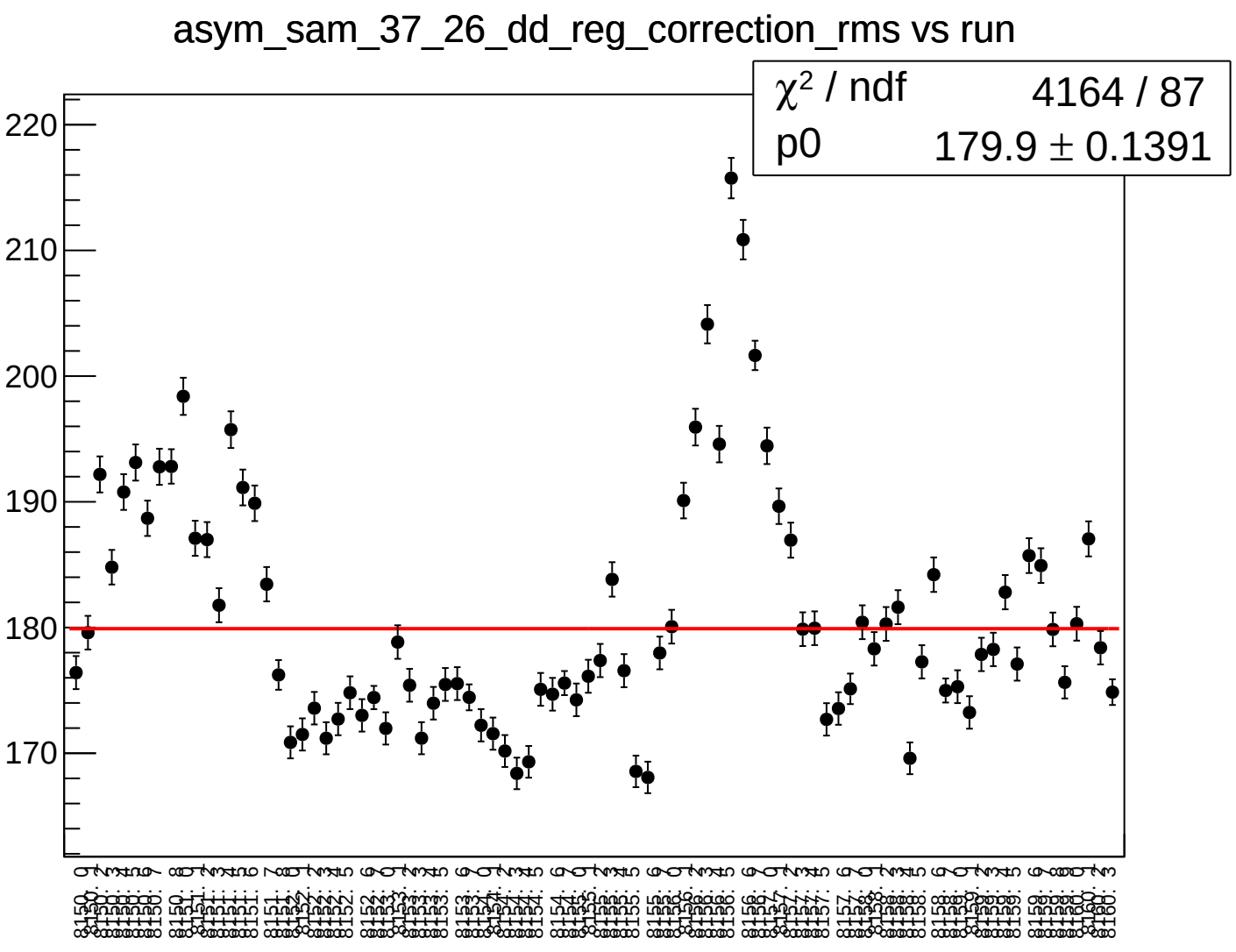

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.807e+05 / 87
p0 2.174e−11 ± 2.077e−14
0.12
0.1
0.08
0.06
0.04
0.02

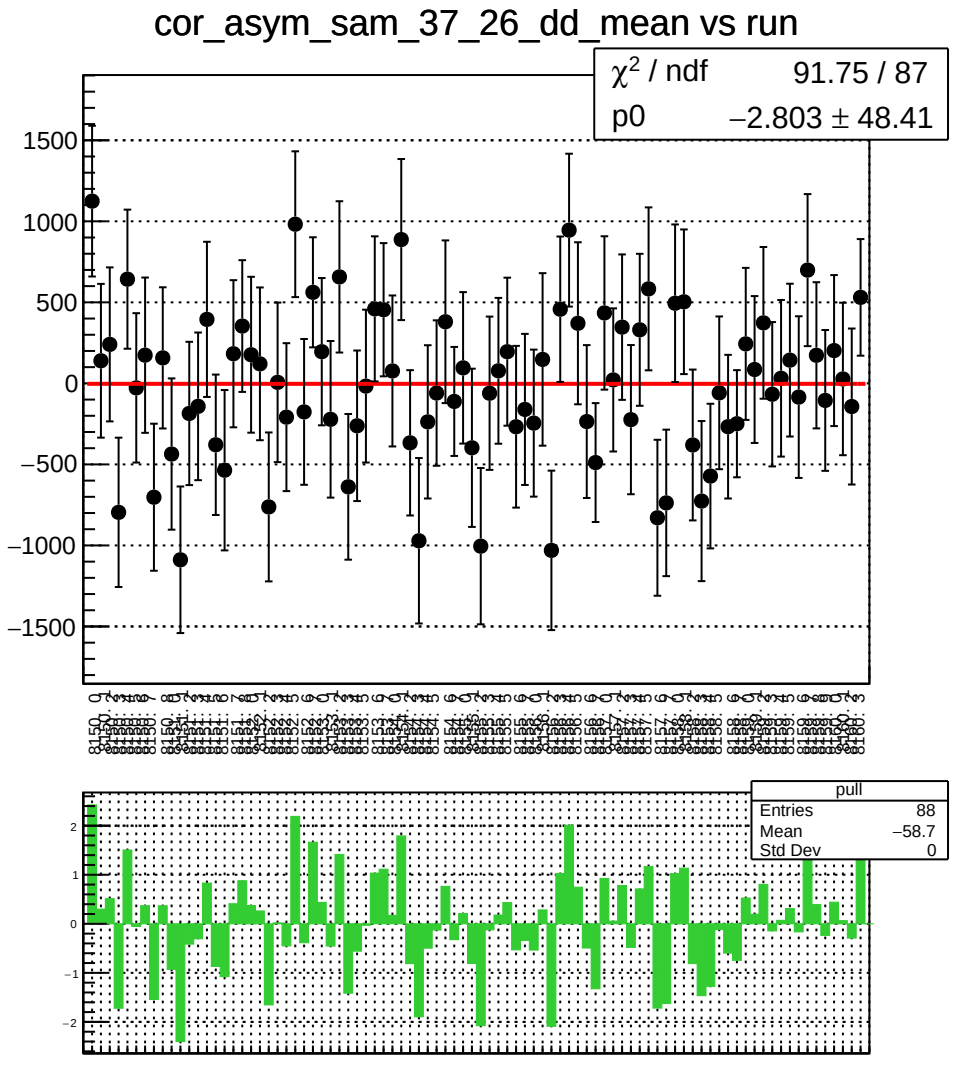

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 91.74 / 87
p0 −2.796 ± 48.41
pull
Entries 88
Mean −58.71
Std Dev 0

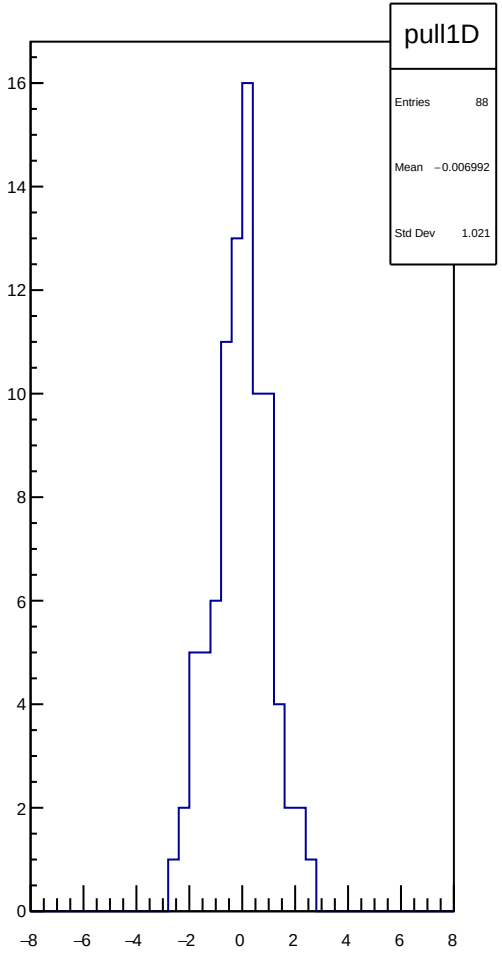

pull1D
Entries 88
Mean −0.006992
Std Dev 1.021

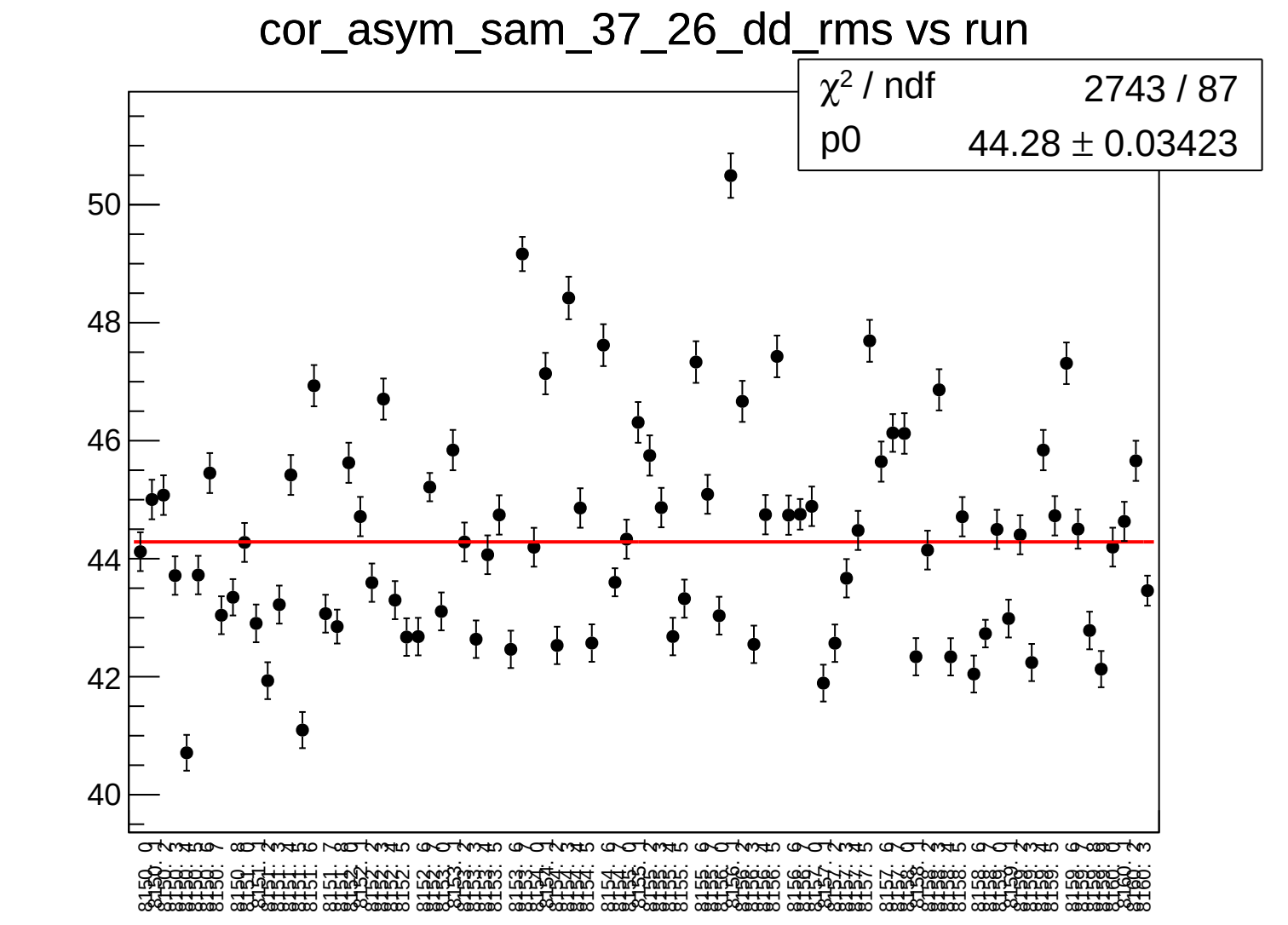

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 2743 / 87
p0 44.28 ± 0.03423
50
48
46
44
42
40

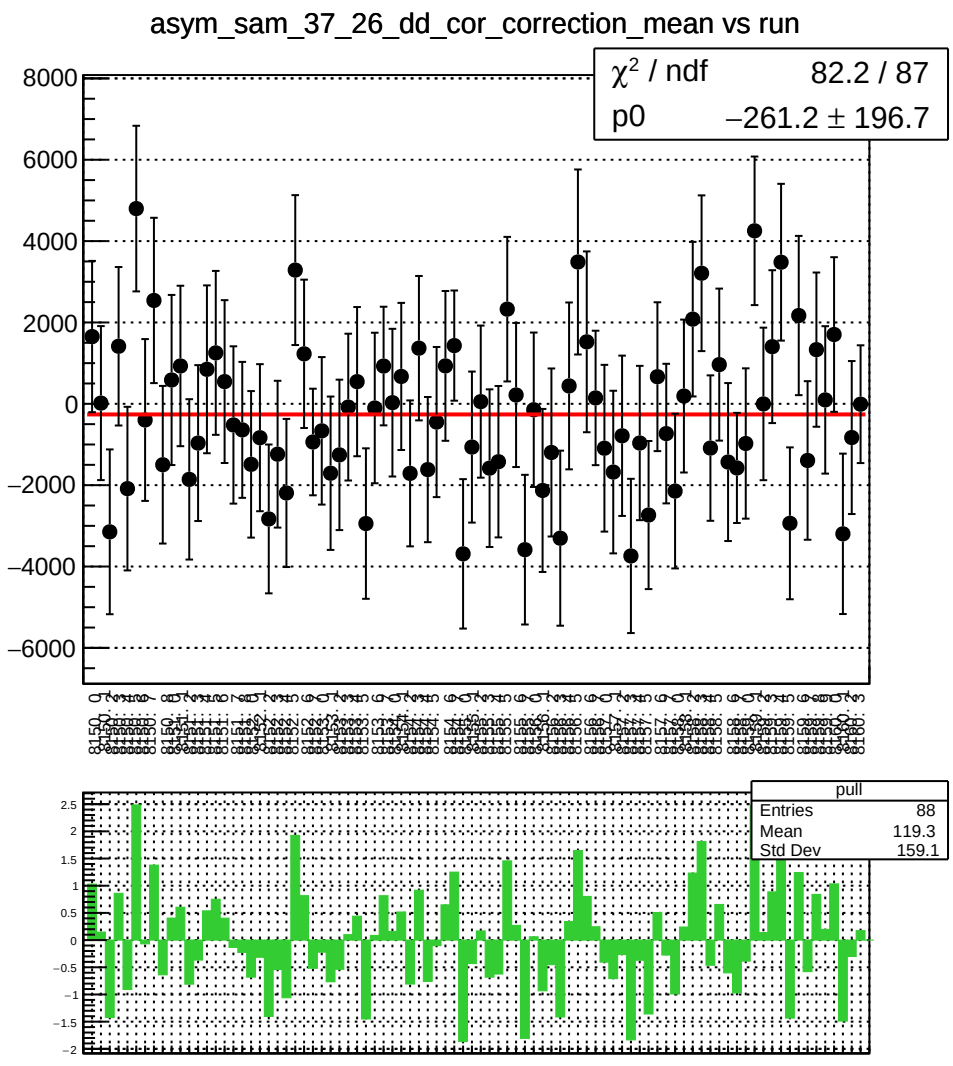

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 82.2 / 87
p0 −261.2 ± 196.7
pull
Entries 88
Mean 119.3
Std Dev 159.1
pull1D
Entries 88
Mean 0.002962
Std Dev 0.9665

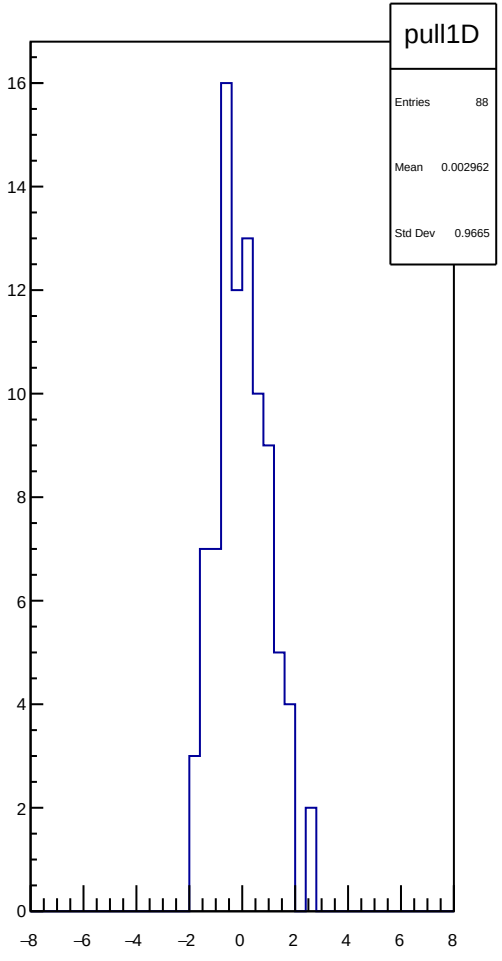

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 4164 / 87
p0 179.9 ± 0.1391
220
210
200
190
180
170

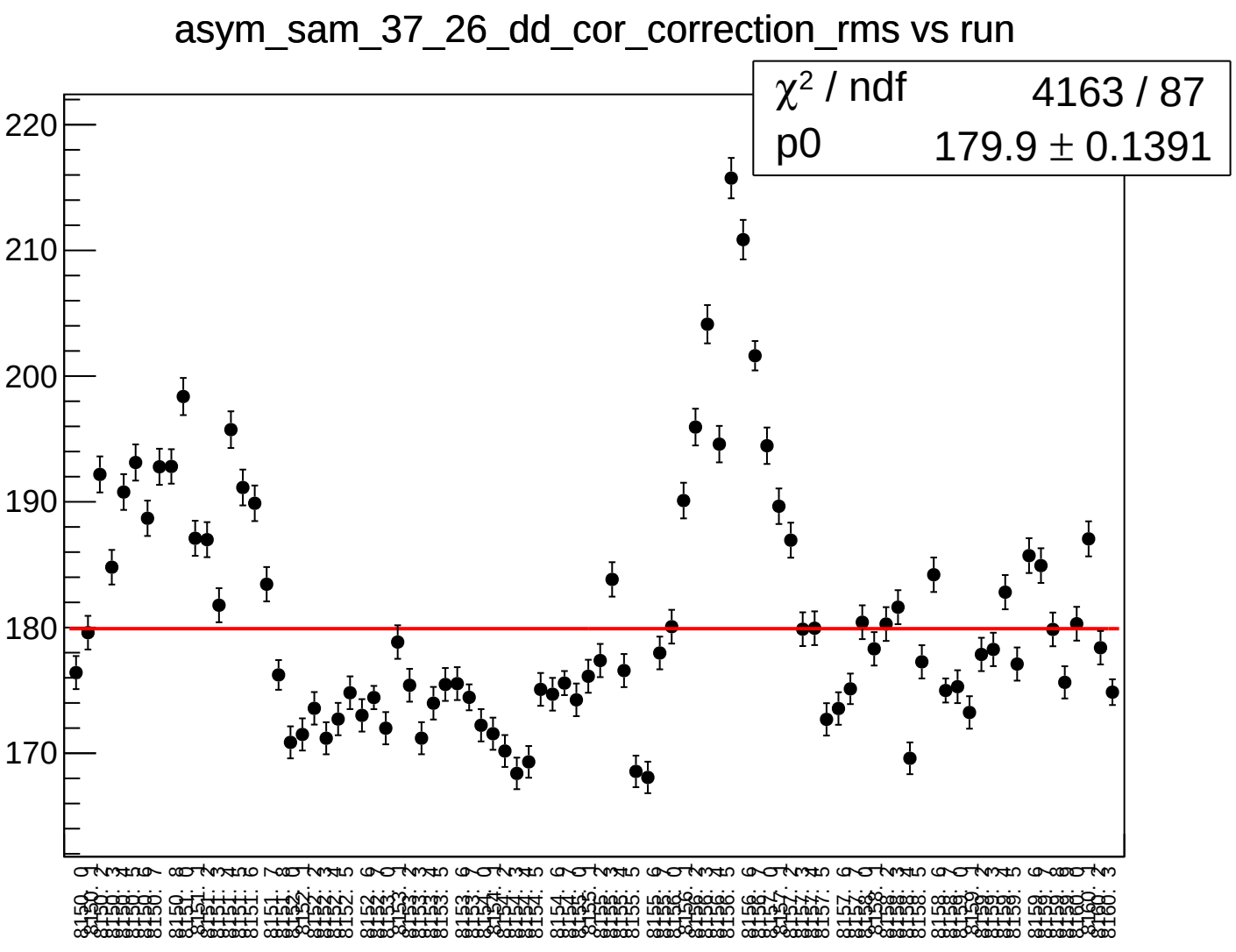

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 91.75 / 87
p0 −2.803 ± 48.41
pull
Entries 88
Mean −58.7
Std Dev 0

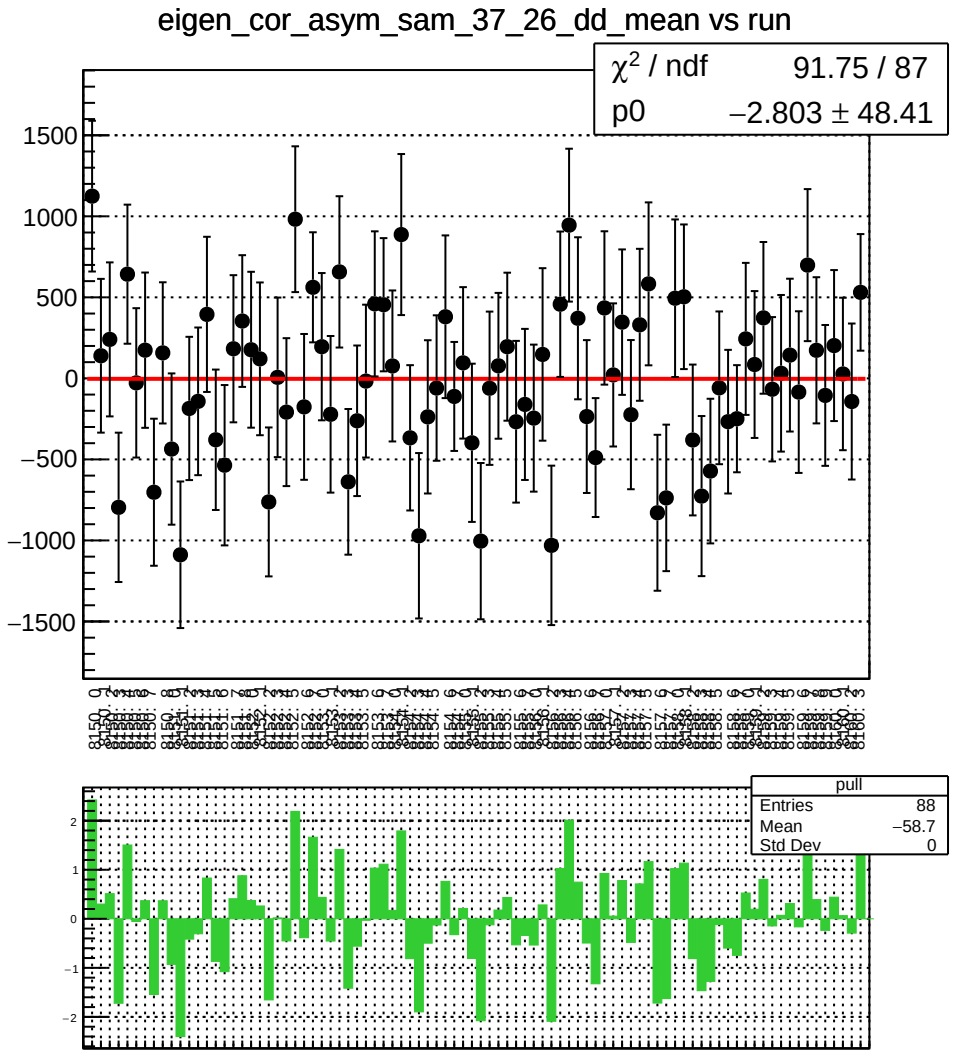

pull1D
Entries 88
Mean −0.006992
Std Dev 1.021

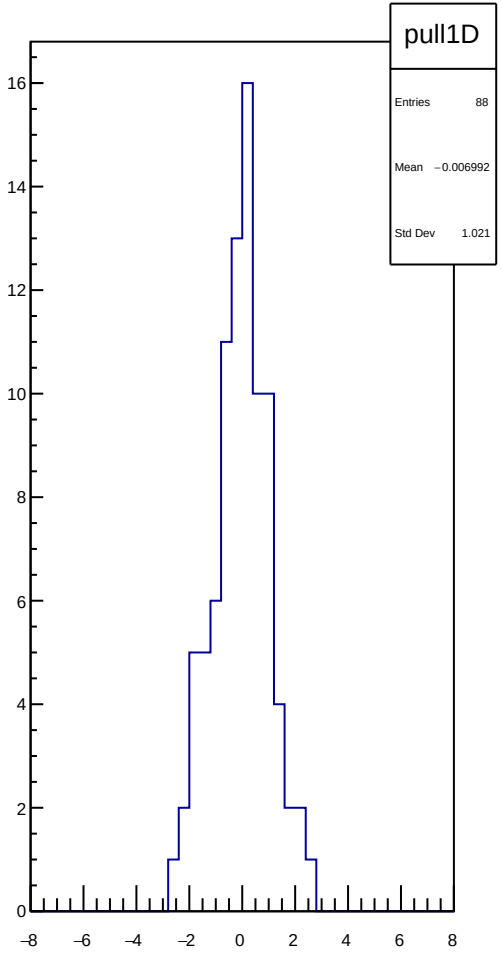

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2743 / 87
p0 44.28 ± 0.03423
50
48
46
44
42
40

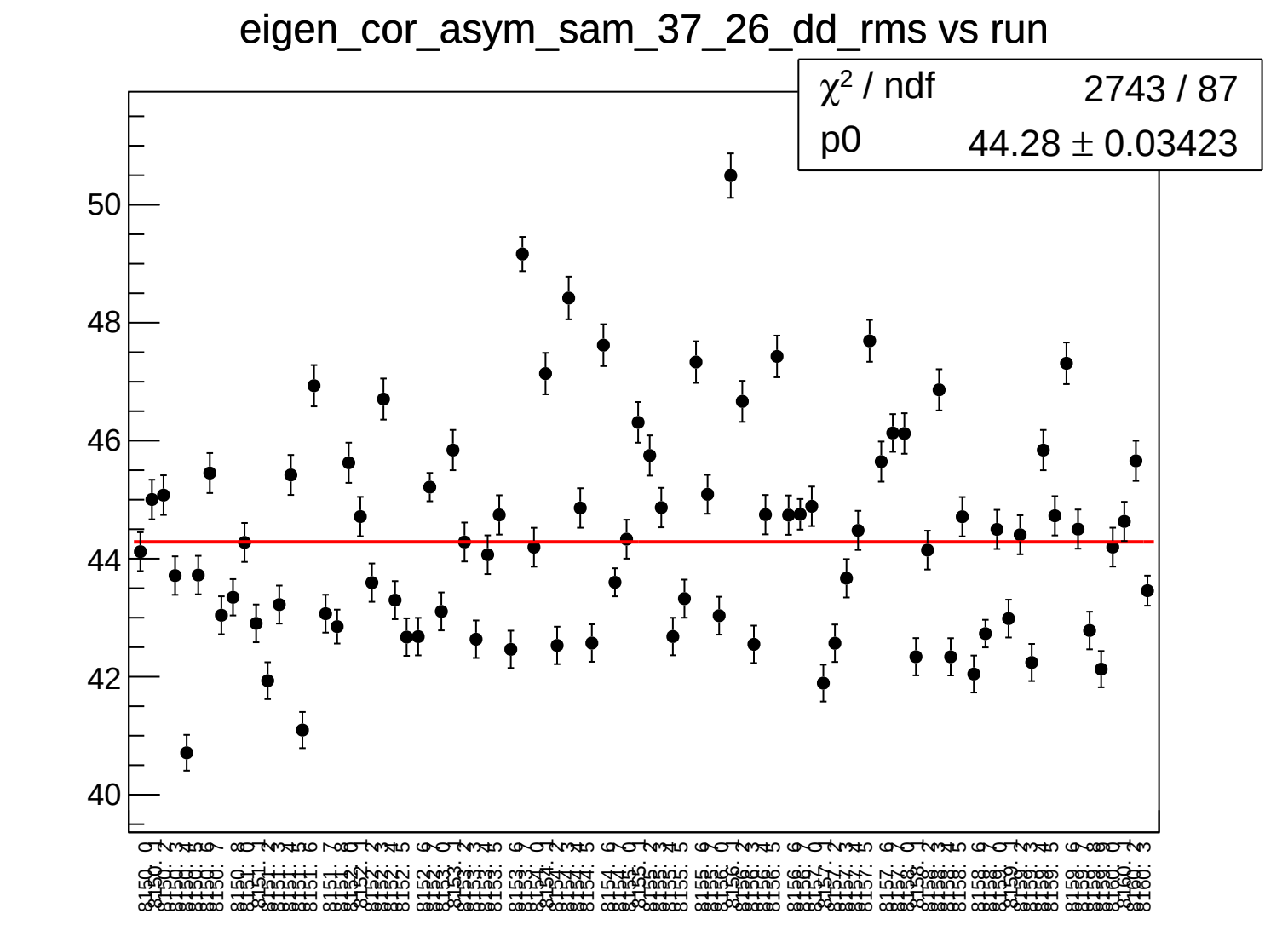

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 82.2 / 87
p0 −261.2 ± 196.7
pull
Entries 88
Mean 119.3
Std Dev 159.1

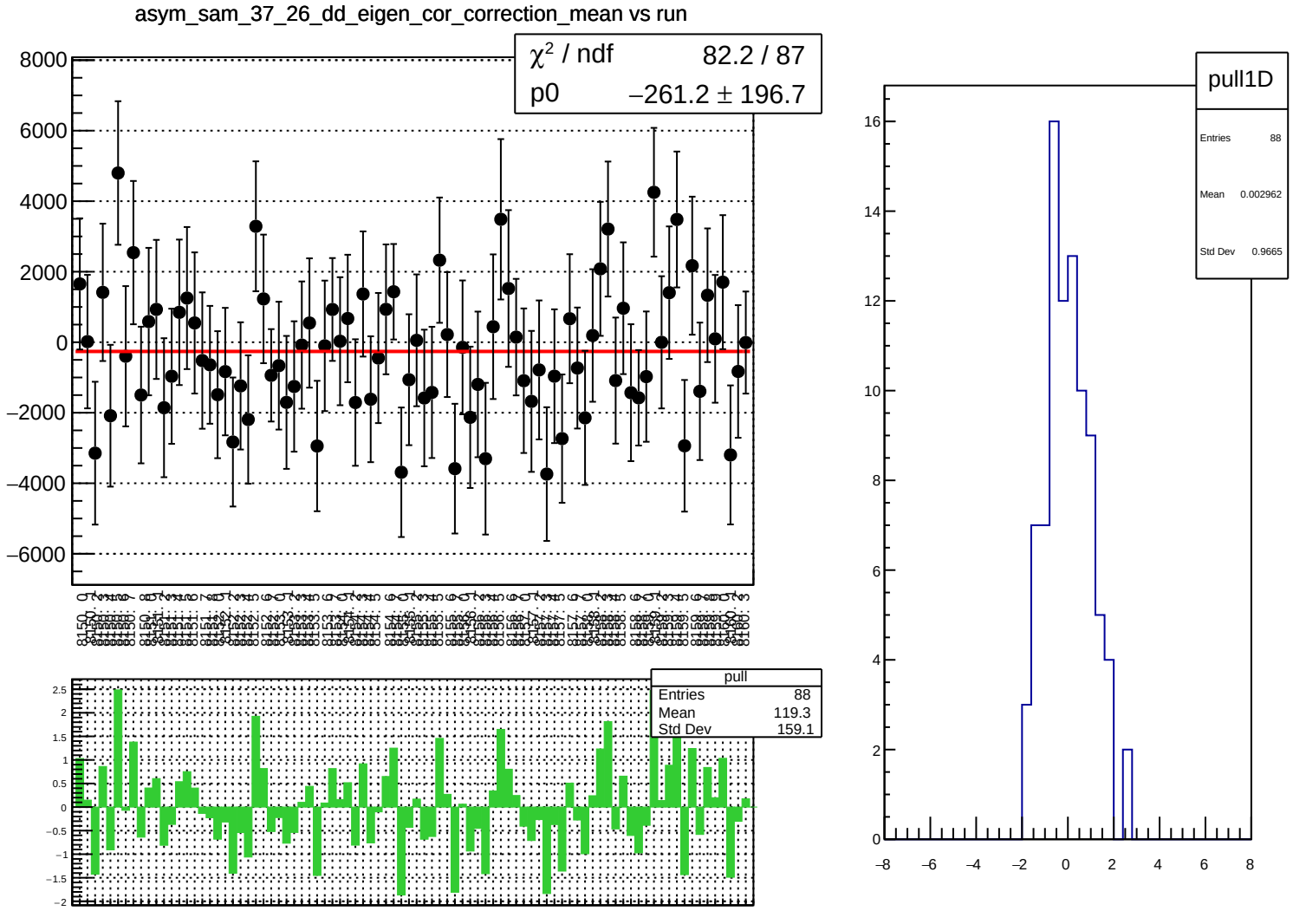

pull1D
Entries 88
Mean 0.002962
Std Dev 0.9665

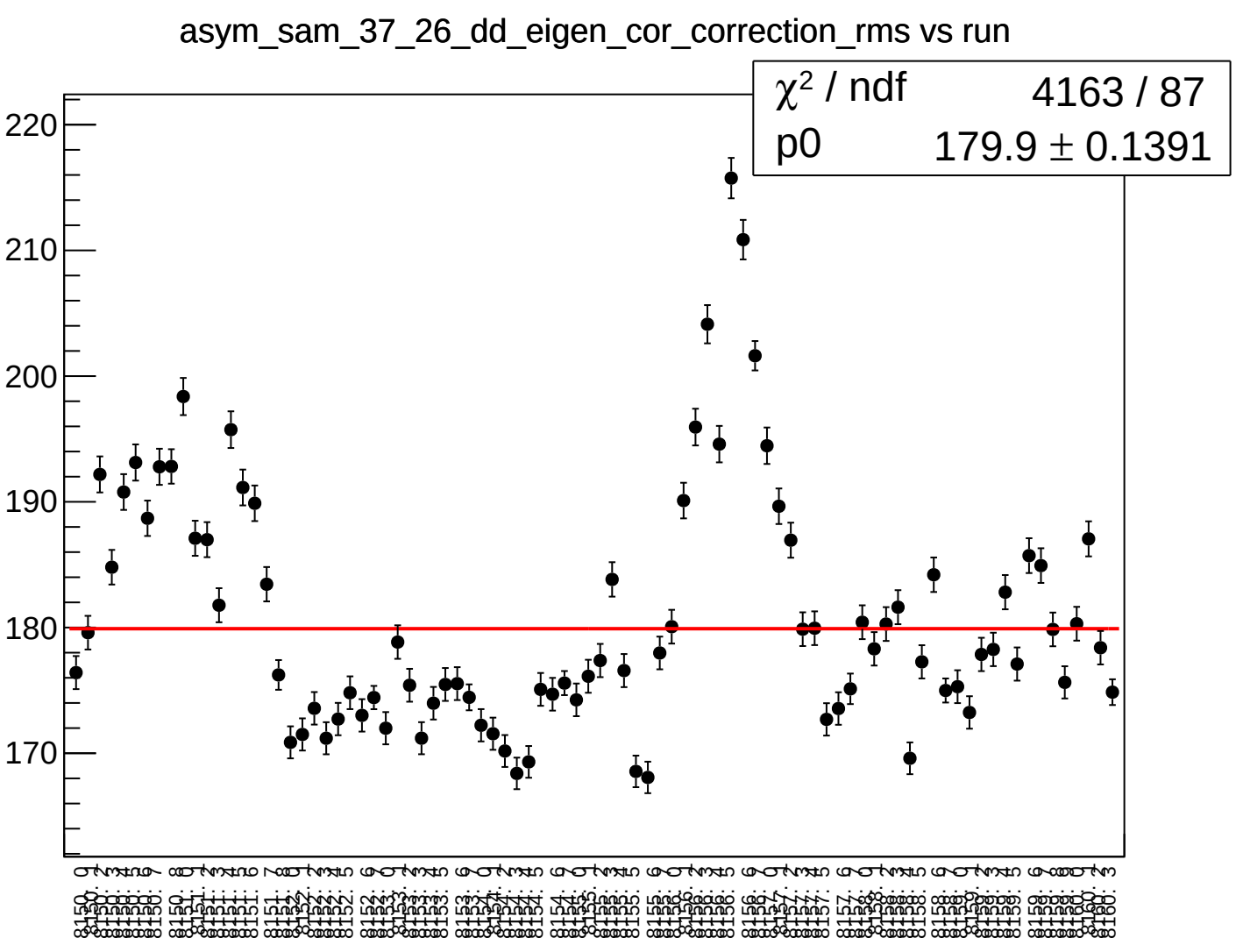

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 4163 / 87
p0 179.9 ± 0.1391
220
210
200
190
180
170

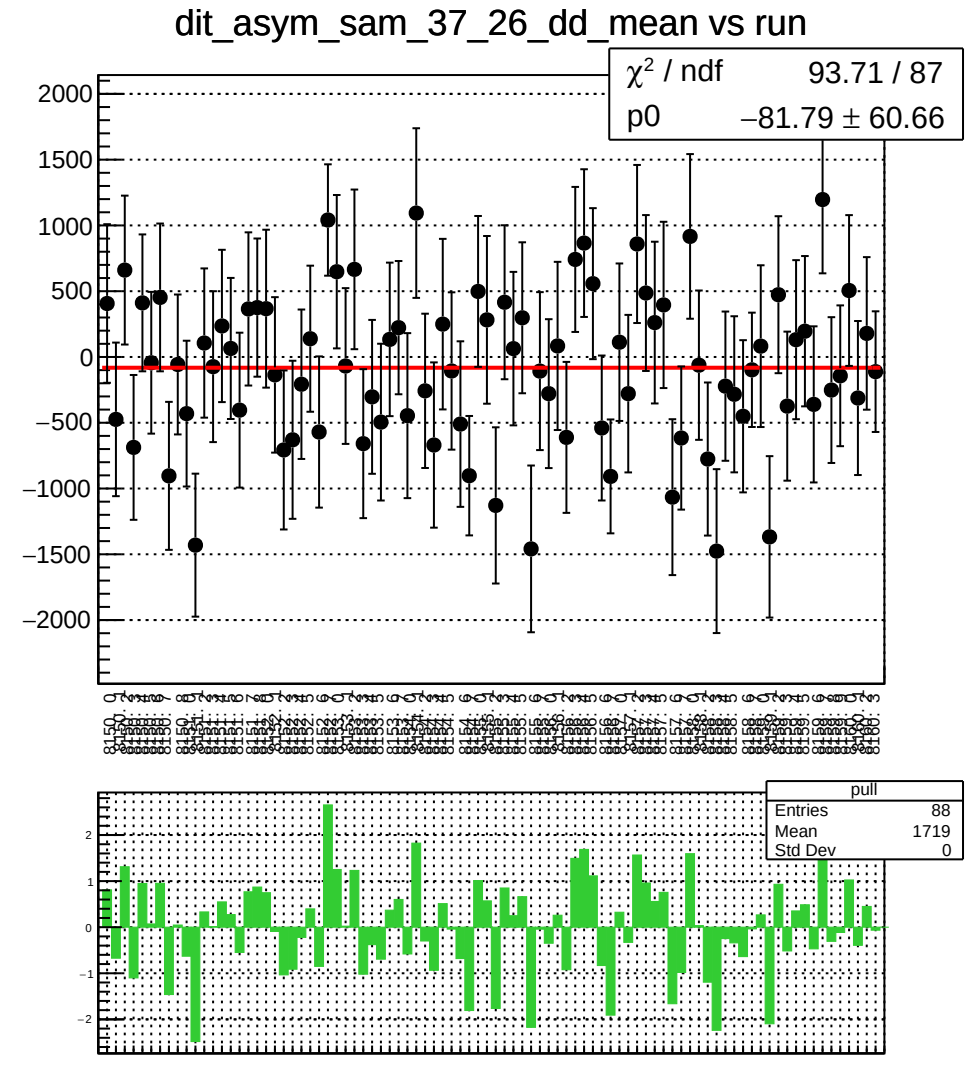

eigen_cor_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 91.75 / 87
p0 −2.803 ± 48.41
1500
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean −58.7
Std Dev 0
2
1
0
−1
−2

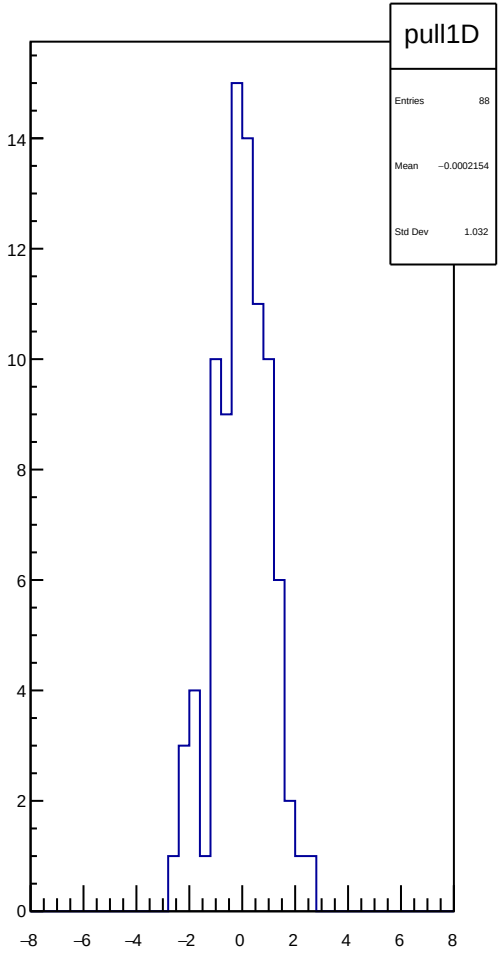

pull1D
Entries 88
Mean −0.006992
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

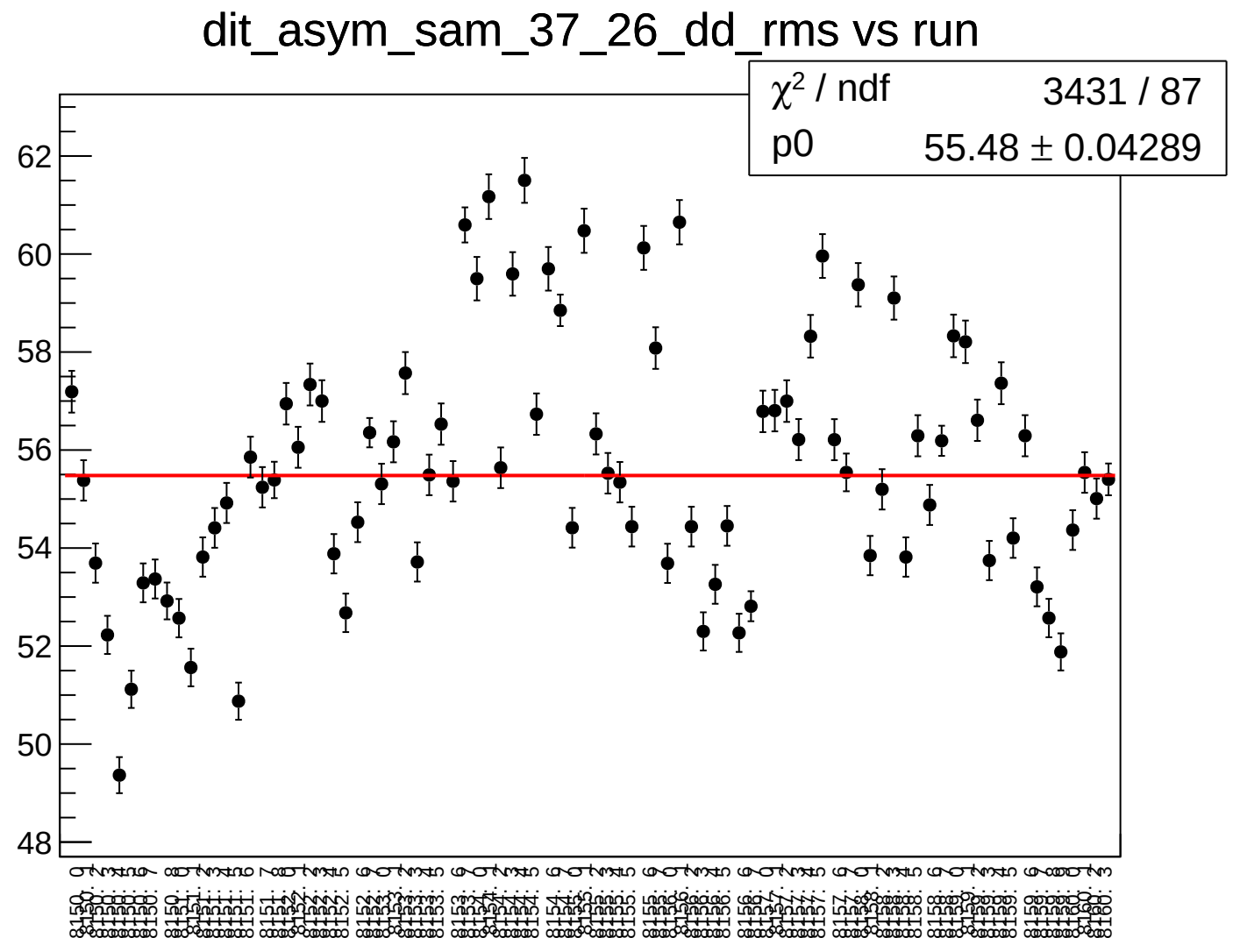

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2743 / 87
p0 44.28 ± 0.03423
50
48
46
44
42
40

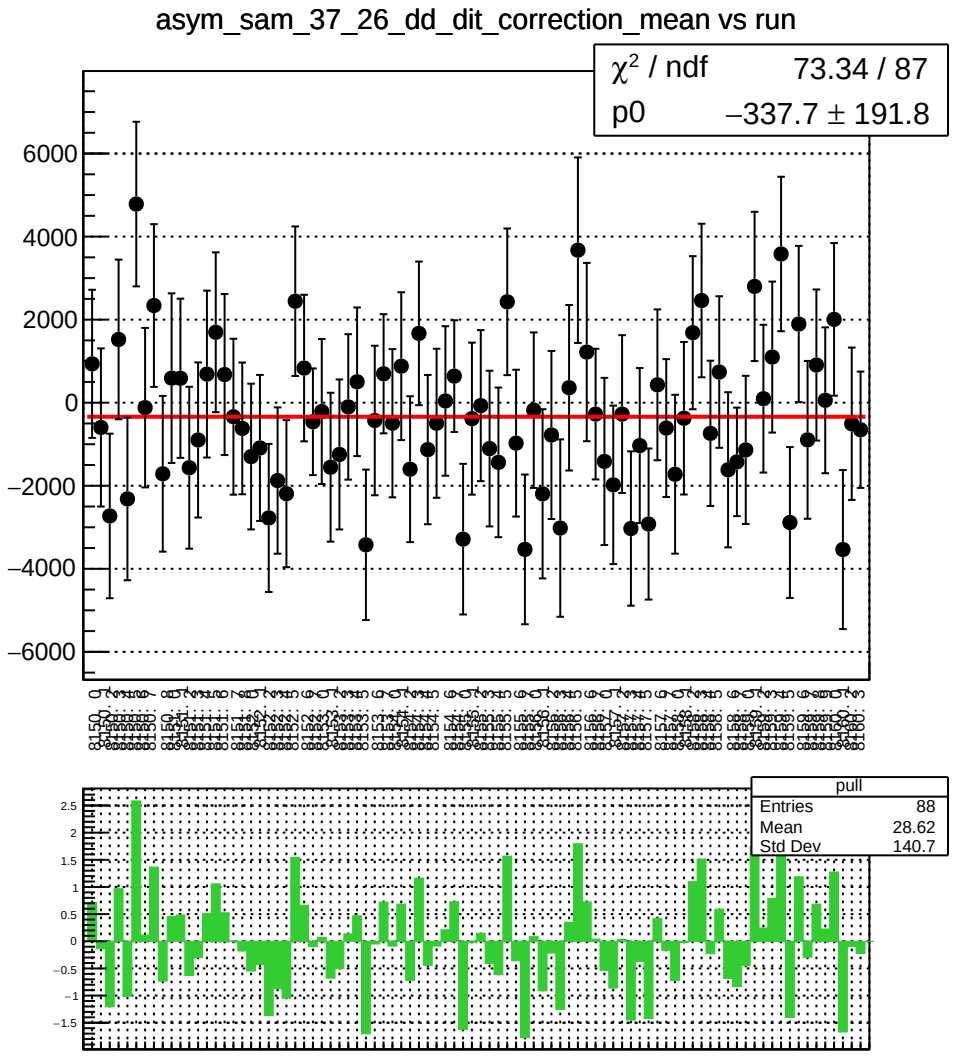

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.2 / 87
p0 −261.2 ± 196.7
pull
Entries 88
Mean 119.3
Std Dev 159.1
pull1D
Entries 88
Mean 0.002962
Std Dev 0.9665

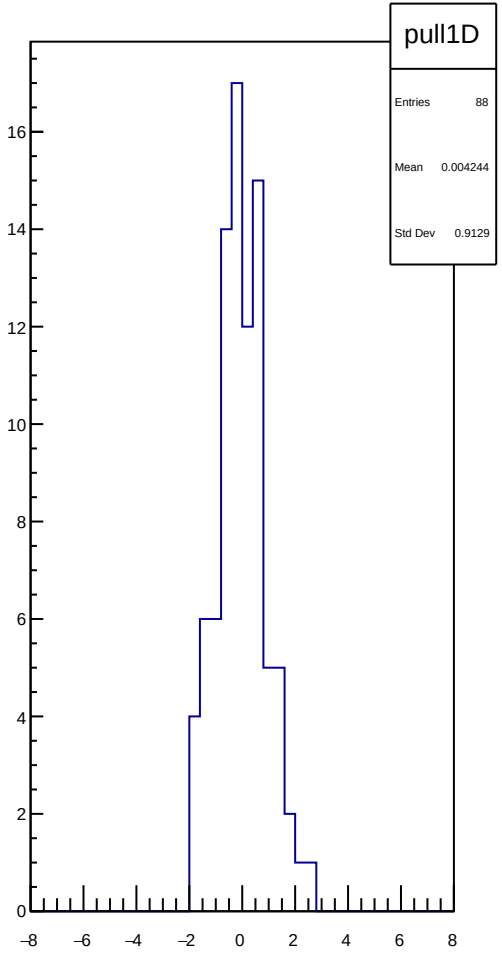

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4163 / 87
p0 179.9 ± 0.1391
220
210
200
190
180
170

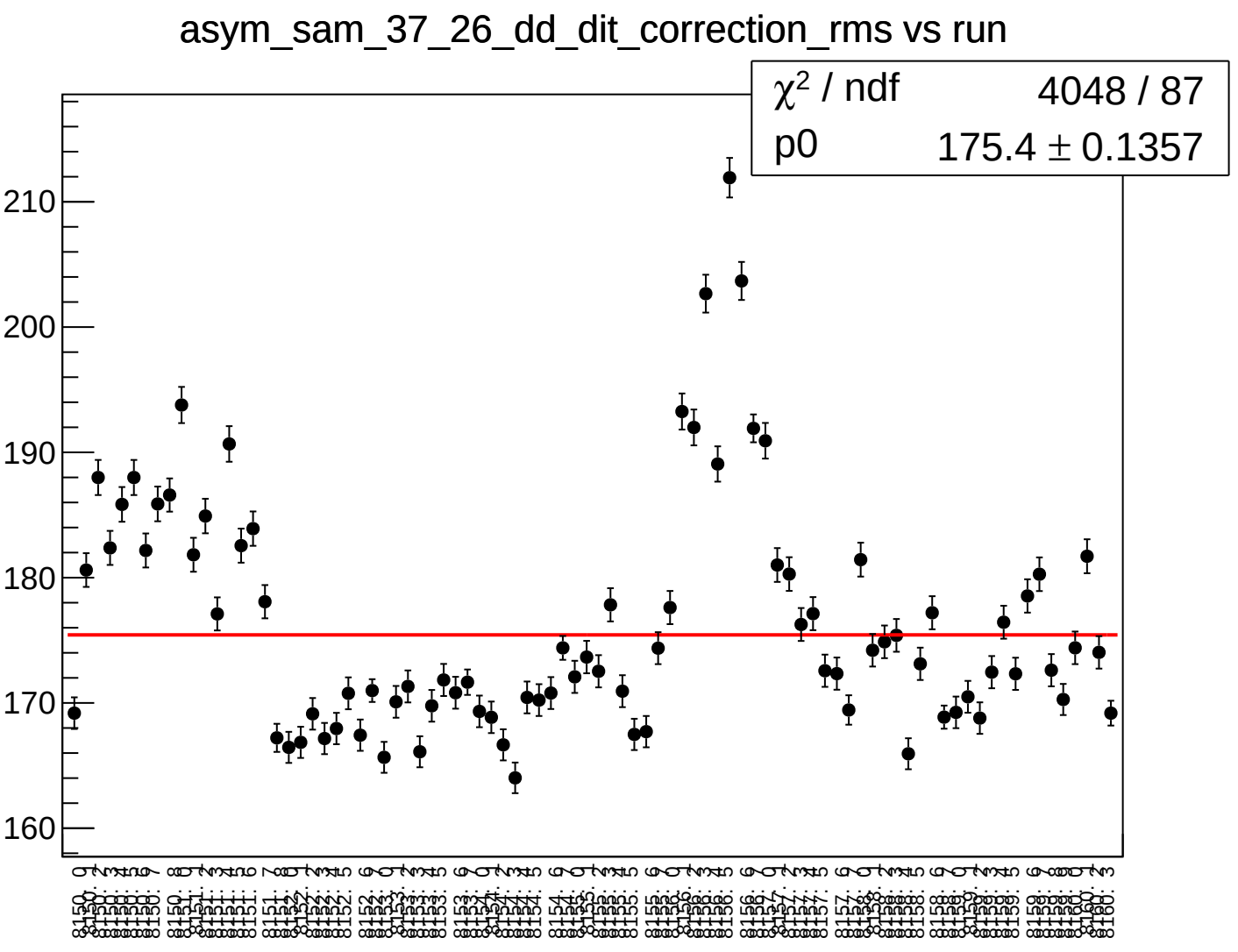

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 93.71 / 87
p0 −81.79 ± 60.66
pull
Entries 88
Mean 1719
Std Dev 0

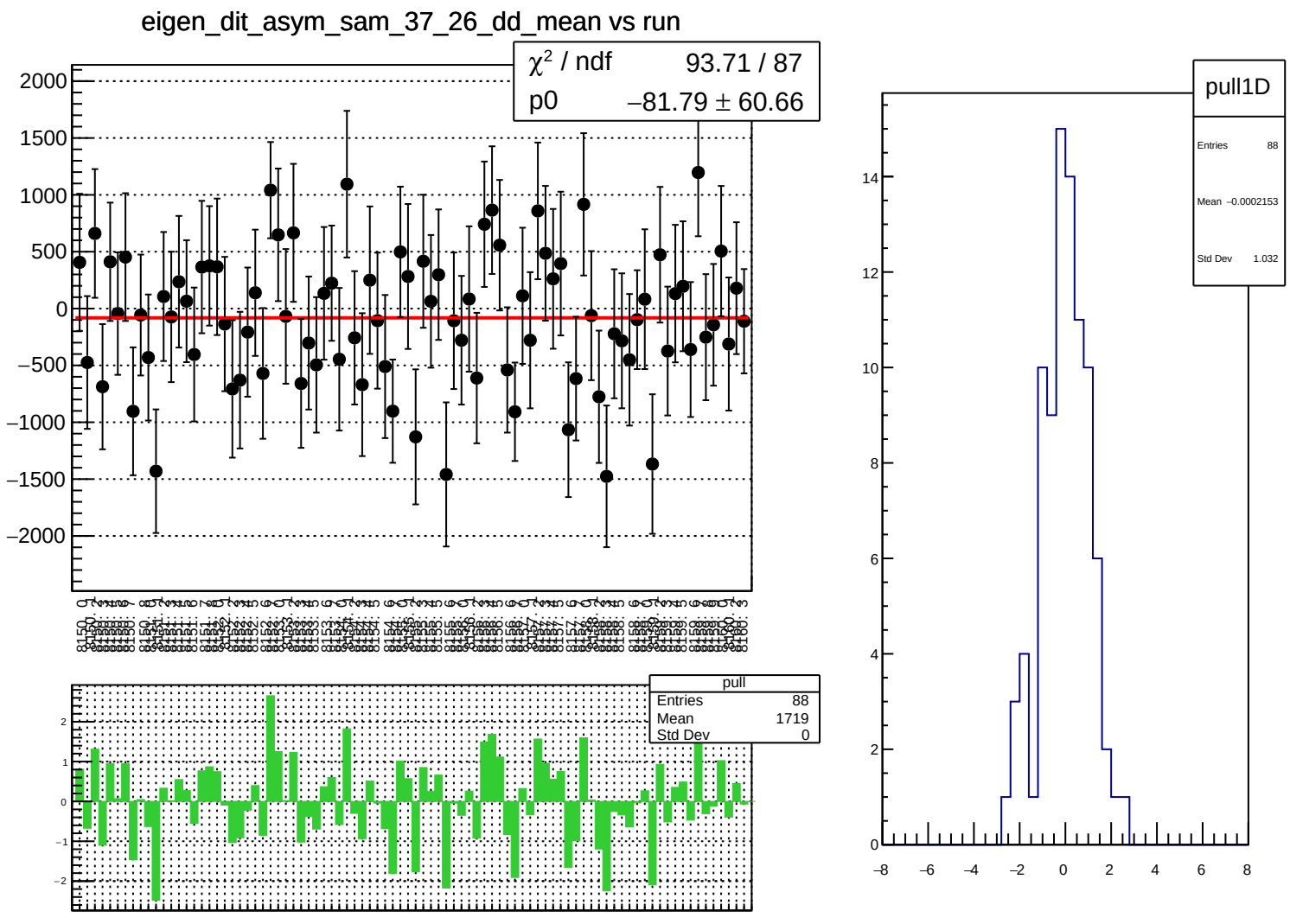

pull1D
Entries 88
Mean −0.0002154
Std Dev 1.032

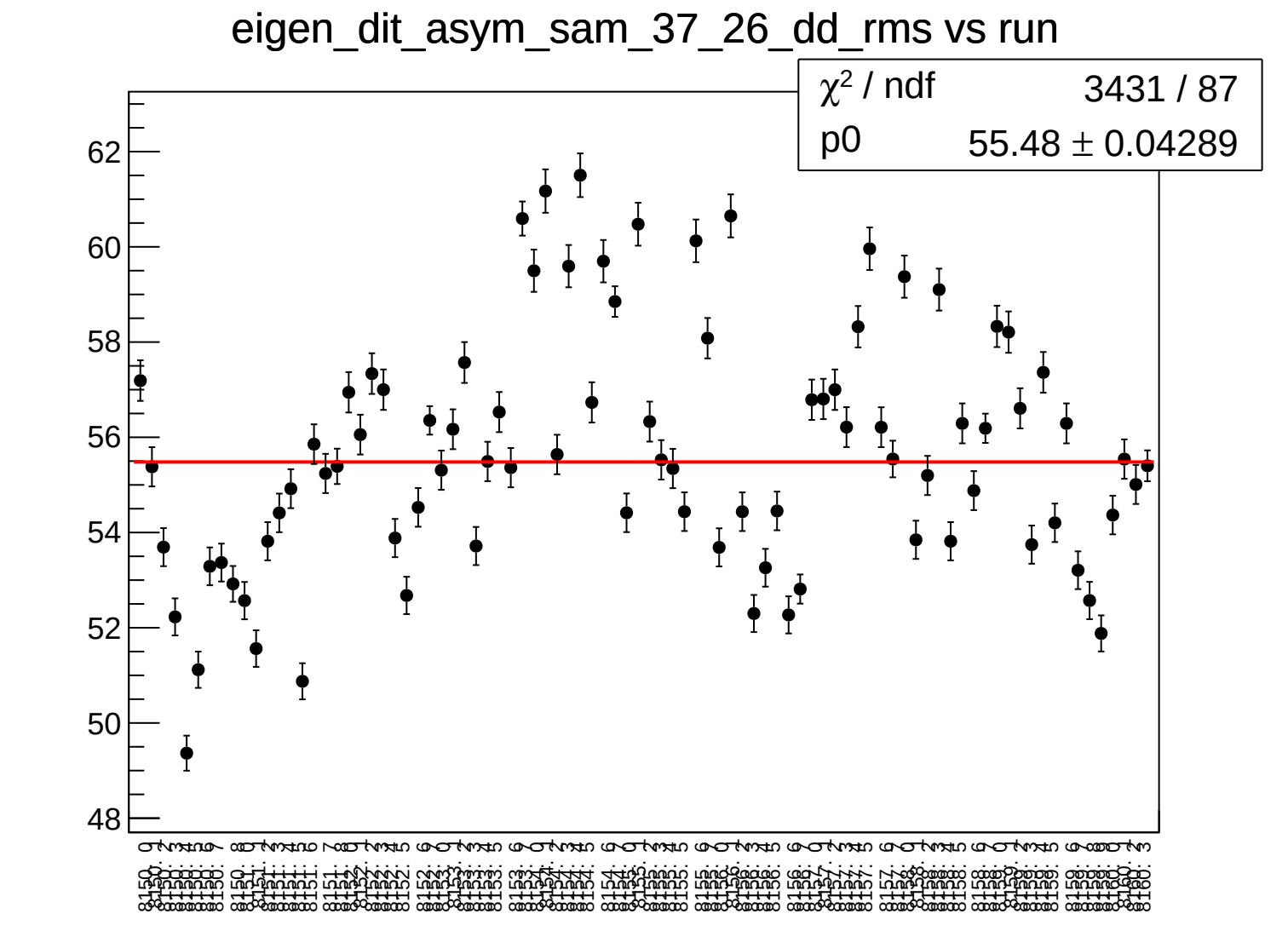

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 3431 / 87
p0 55.48 ± 0.04289
62
60
58
56
54
52
50
48

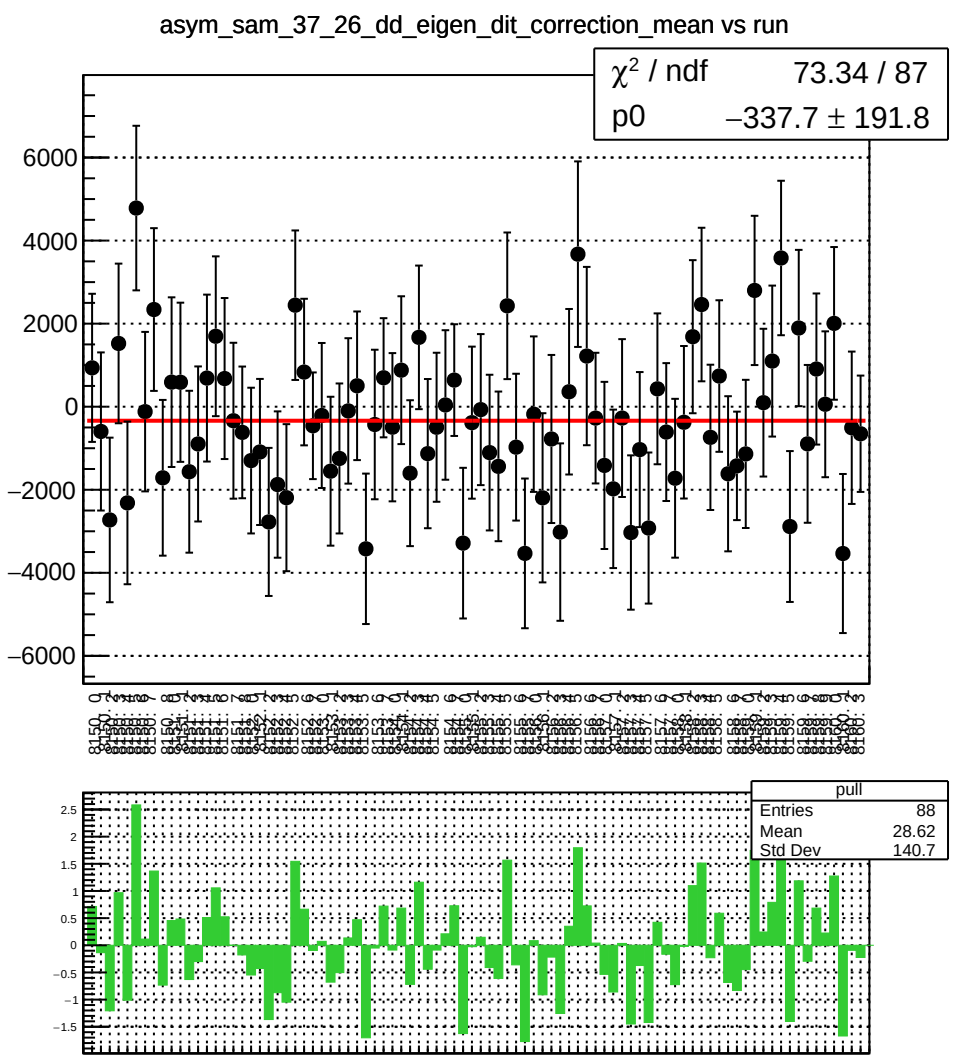

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 73.34 / 87
p0 −337.7 ± 191.8
pull
Entries 88
Mean 28.62
Std Dev 140.7

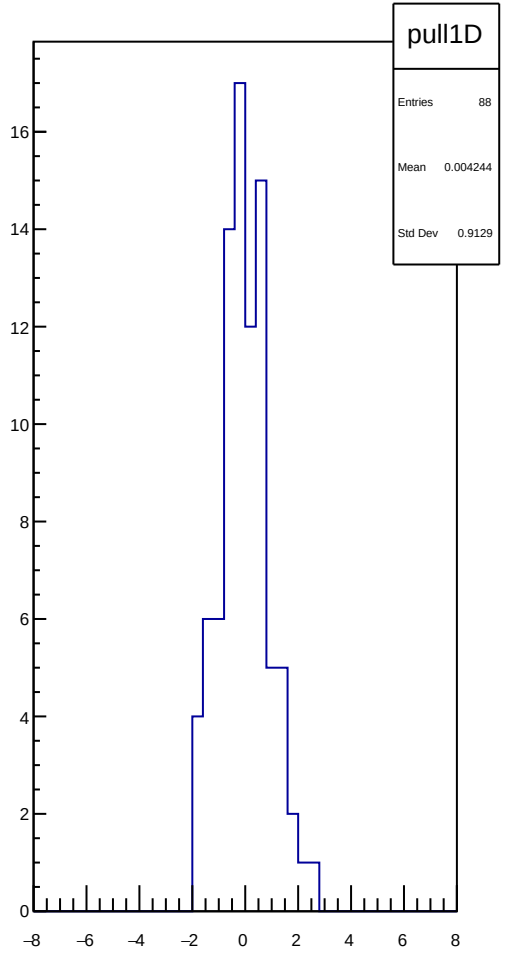

pull1D
Entries 88
Mean 0.004244
Std Dev 0.9129

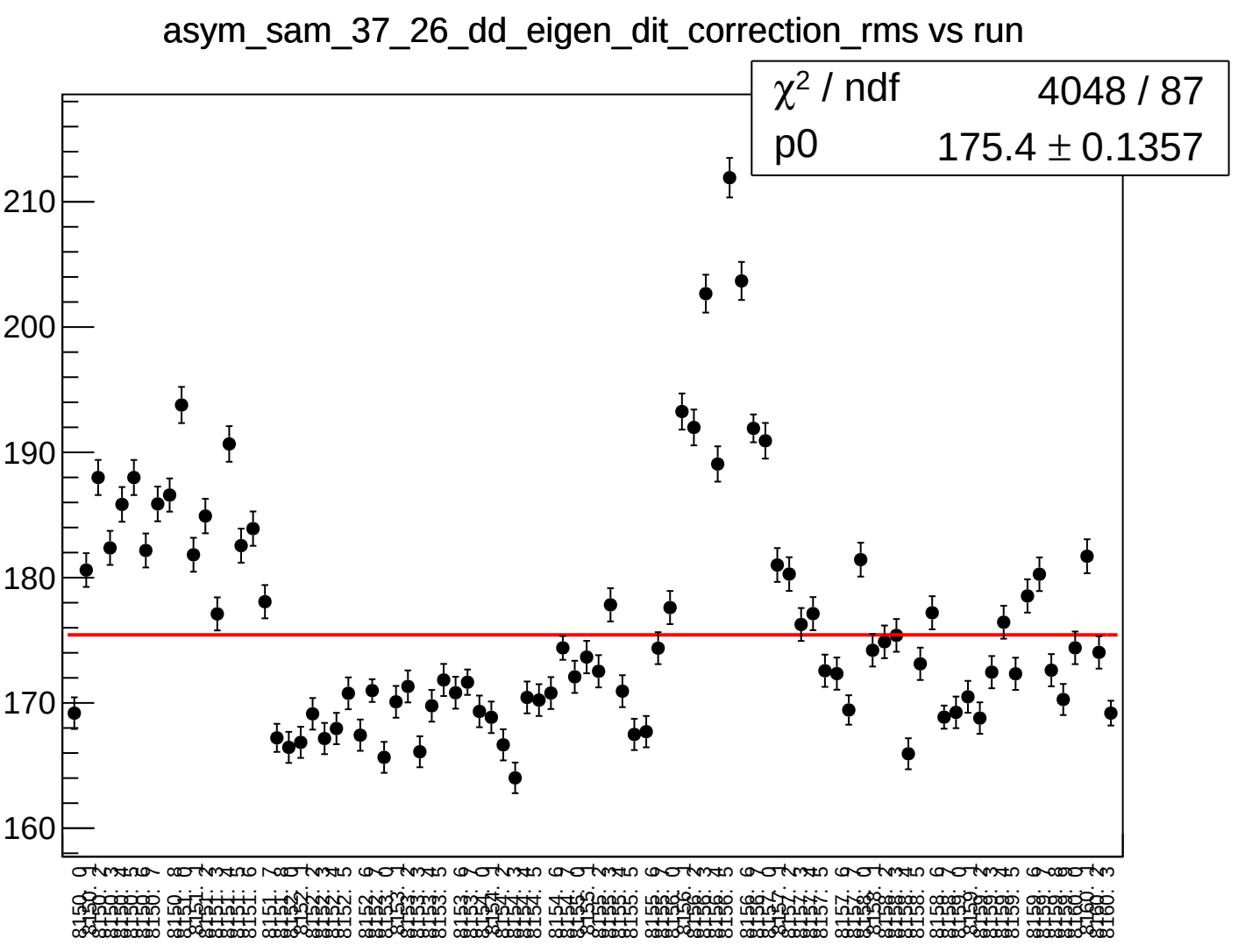

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 4048 / 87
p0 175.4 ± 0.1357
210
200
190
180
170
160

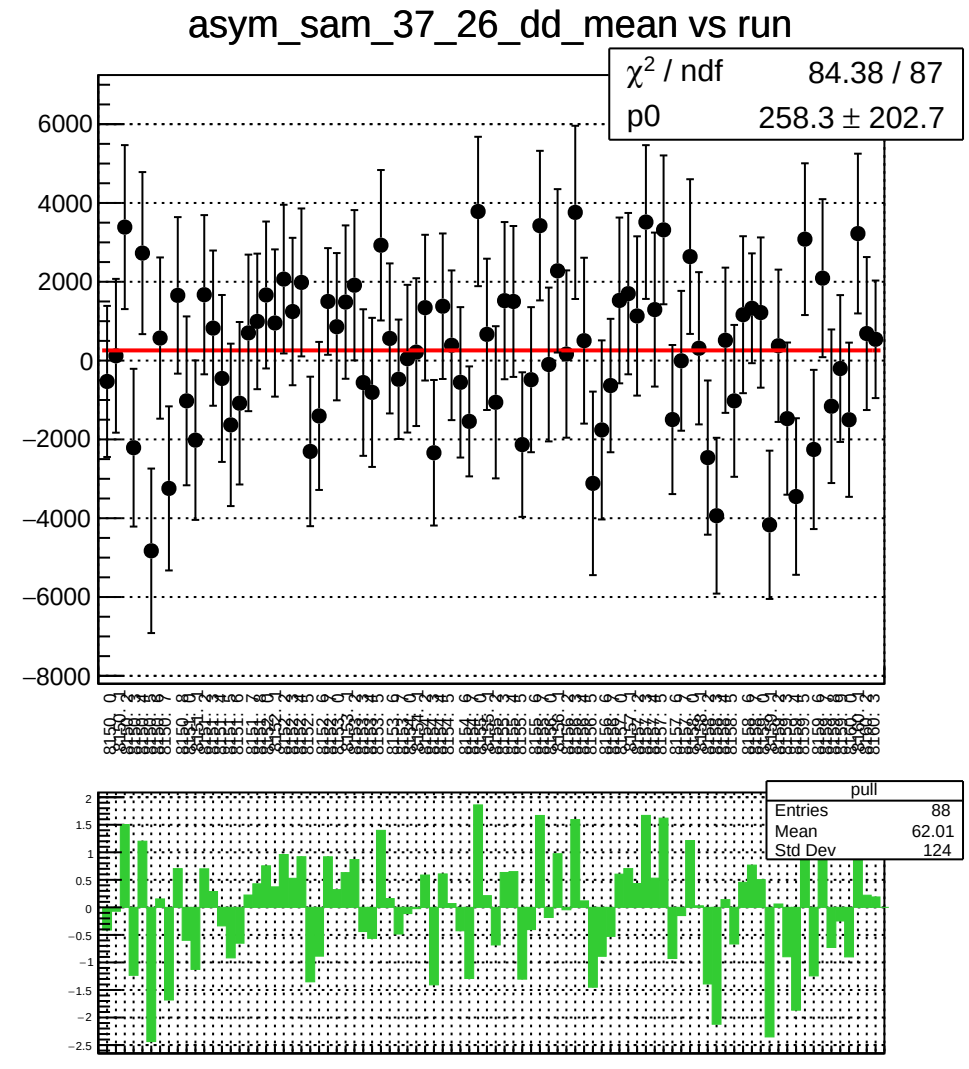

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 93.71 / 87
p0 −81.79 ± 60.66
pull
Entries 88
Mean 1719
Std Dev 0
pull1D
Entries 88
Mean −0.0002153
Std Dev 1.032

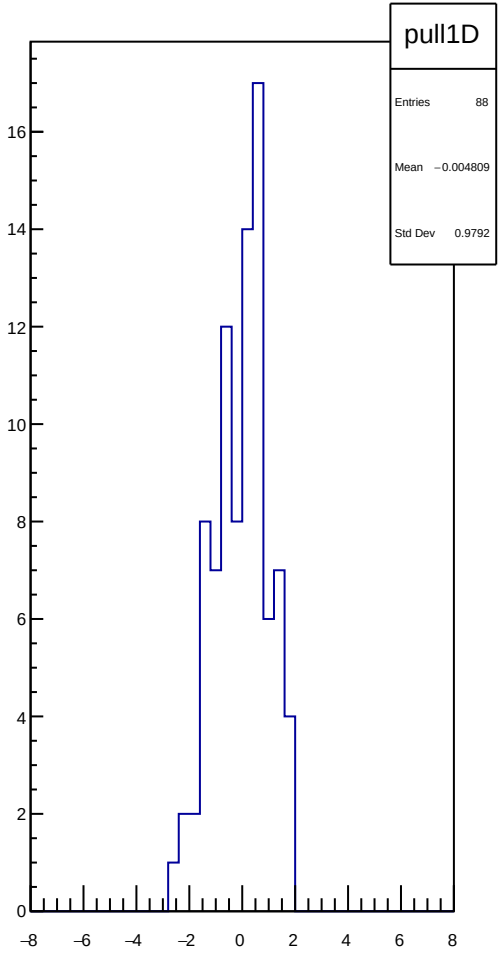

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 3431 / 87
p0 55.48 ± 0.04289
62
60
58
56
54
52
50
48

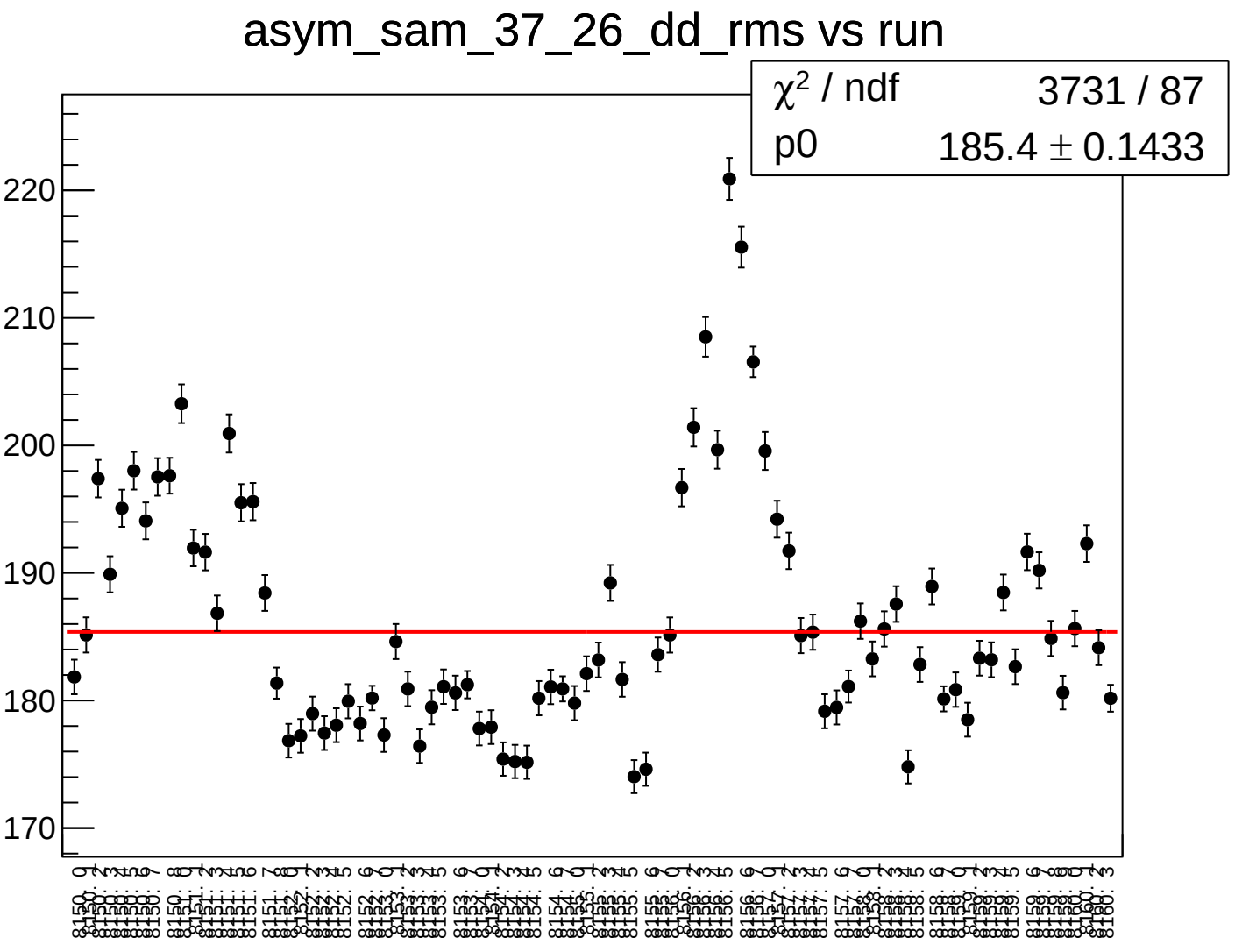

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 73.34 / 87
p0 −337.7 ± 191.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 28.62
Std Dev 140.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

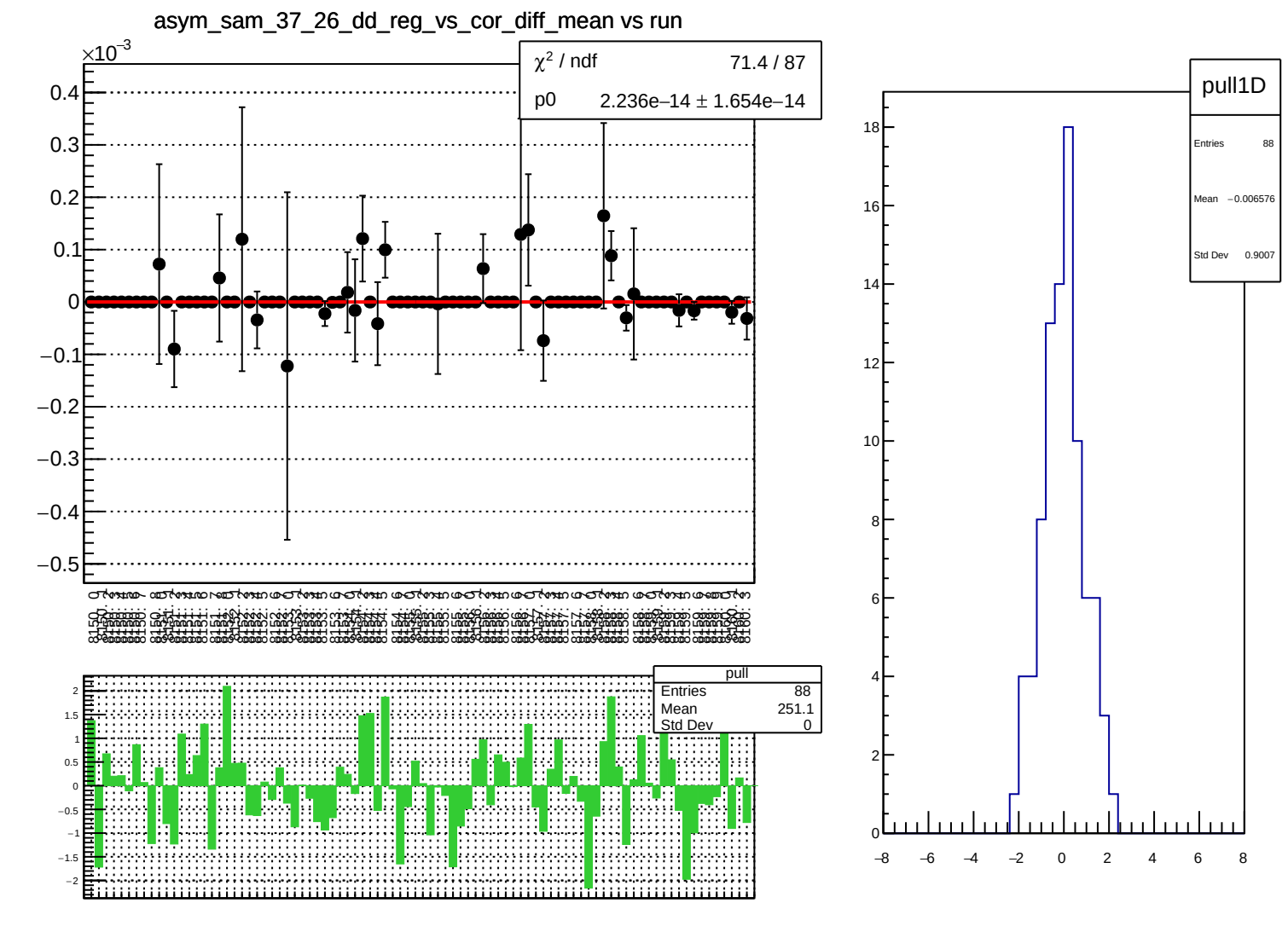

pull1D
Entries 88
Mean 0.004244
Std Dev 0.9129
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

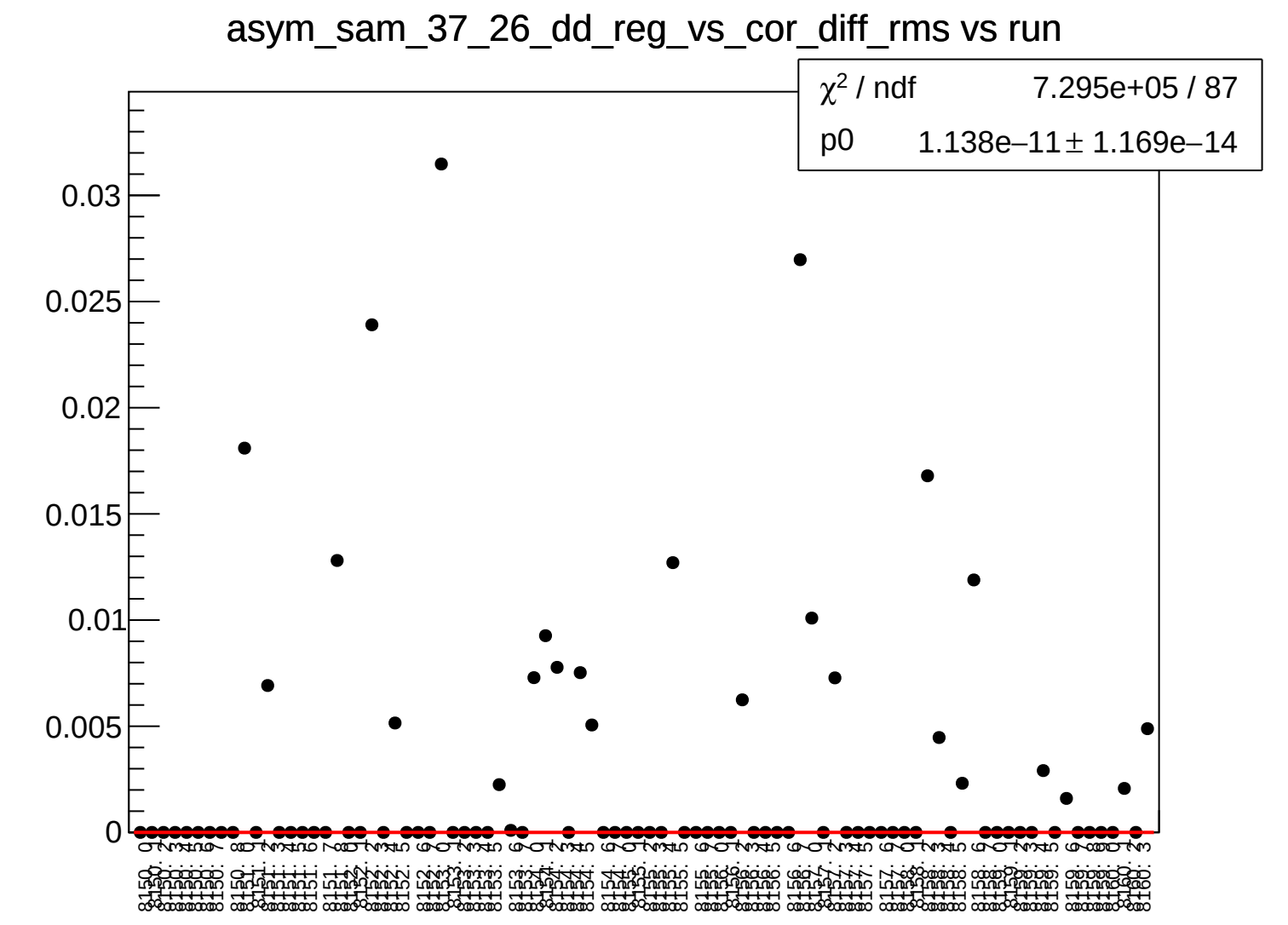

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4048 / 87
p0 175.4 ± 0.1357
210
200
190
180
170
160

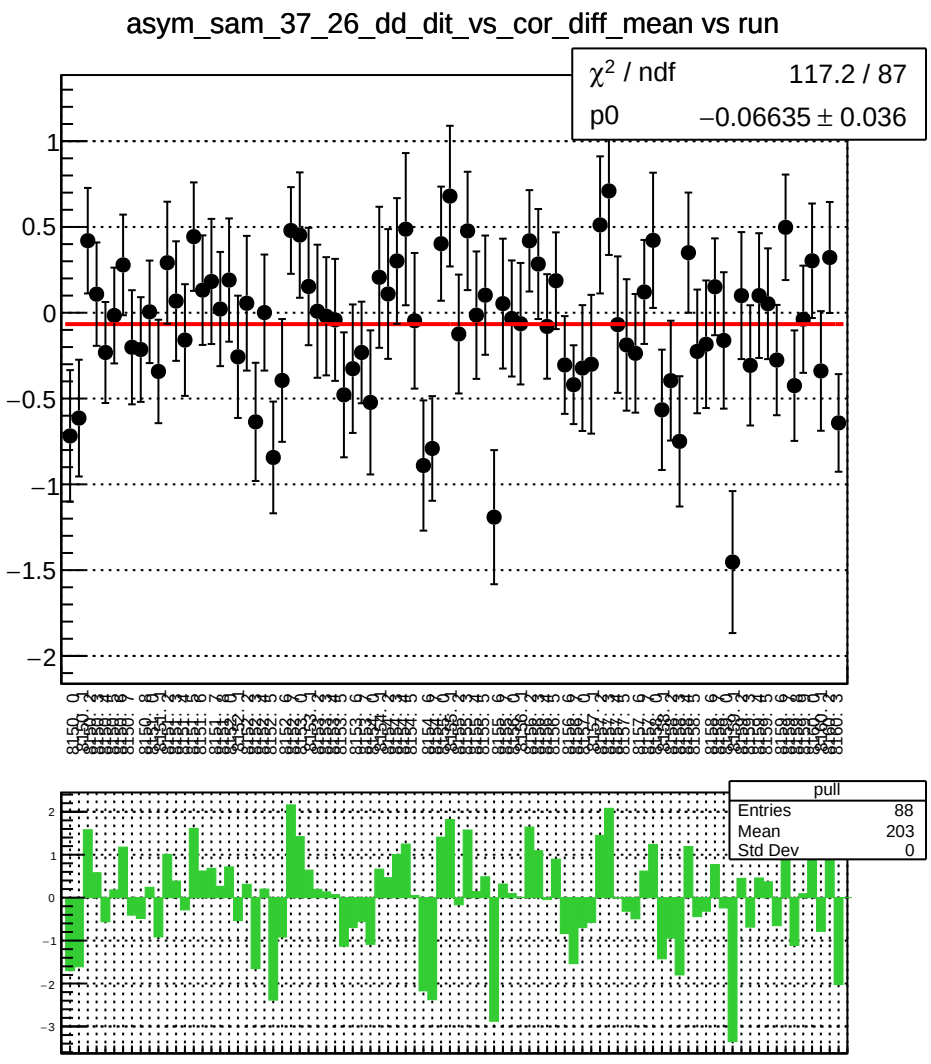

asym_sam_37_26_dd_mean vs run
χ² / ndf 84.38 / 87
p0 258.3 ± 202.7
pull
Entries 88
Mean 62.01
Std Dev 124

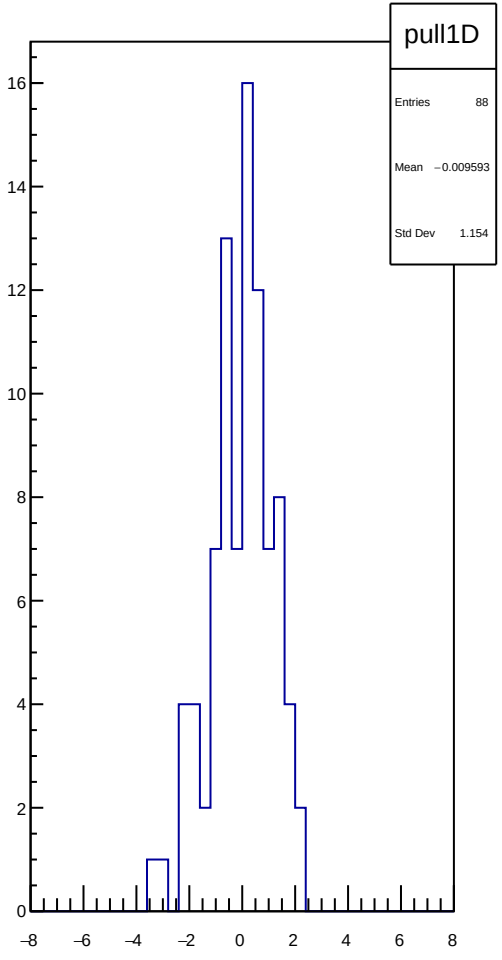

pull1D
Entries 88
Mean −0.004809
Std Dev 0.9792

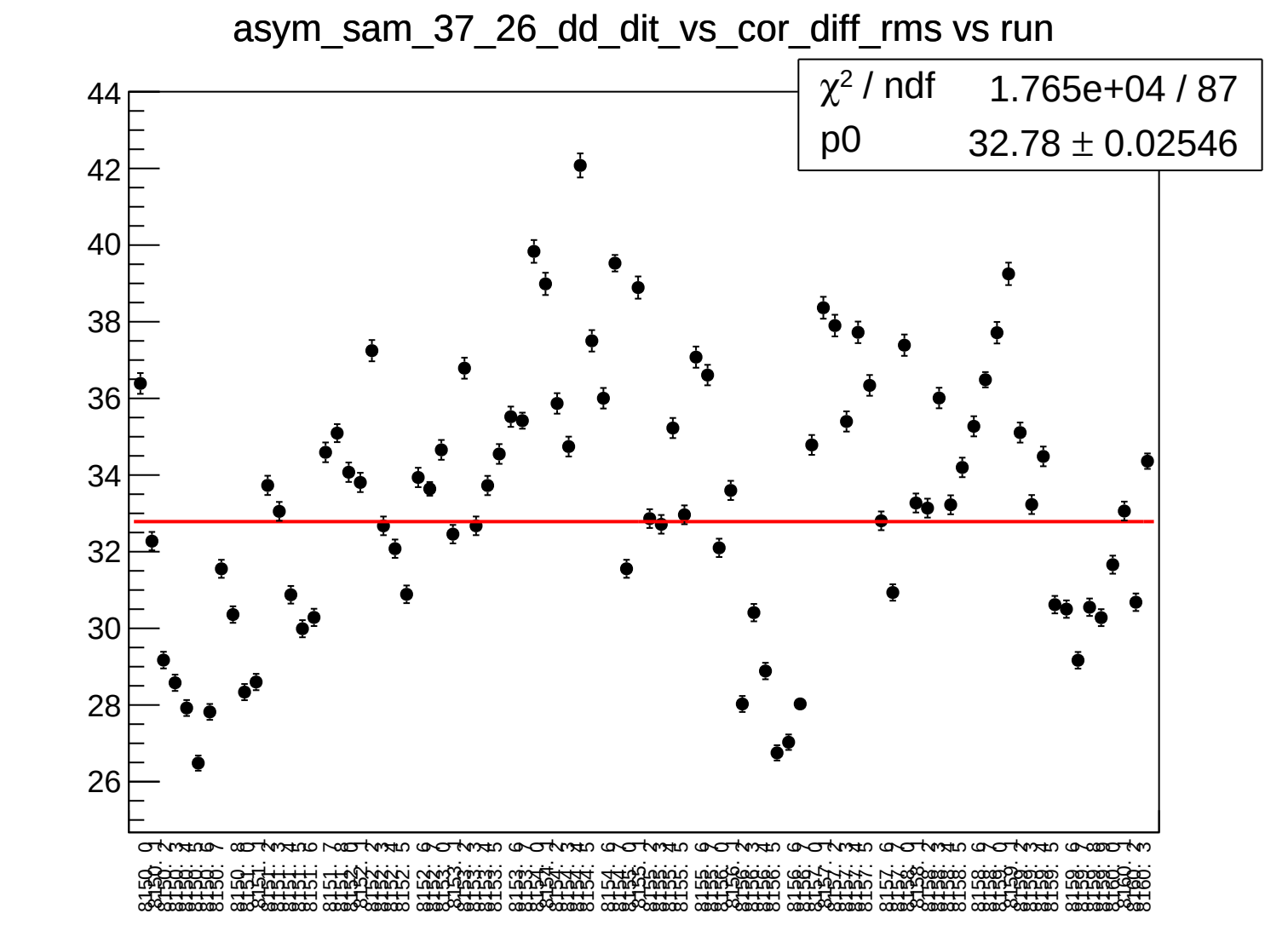

asym_sam_37_26_dd_rms vs run
χ² / ndf 3731 / 87
p0 185.4 ± 0.1433
220
210
200
190
180
170

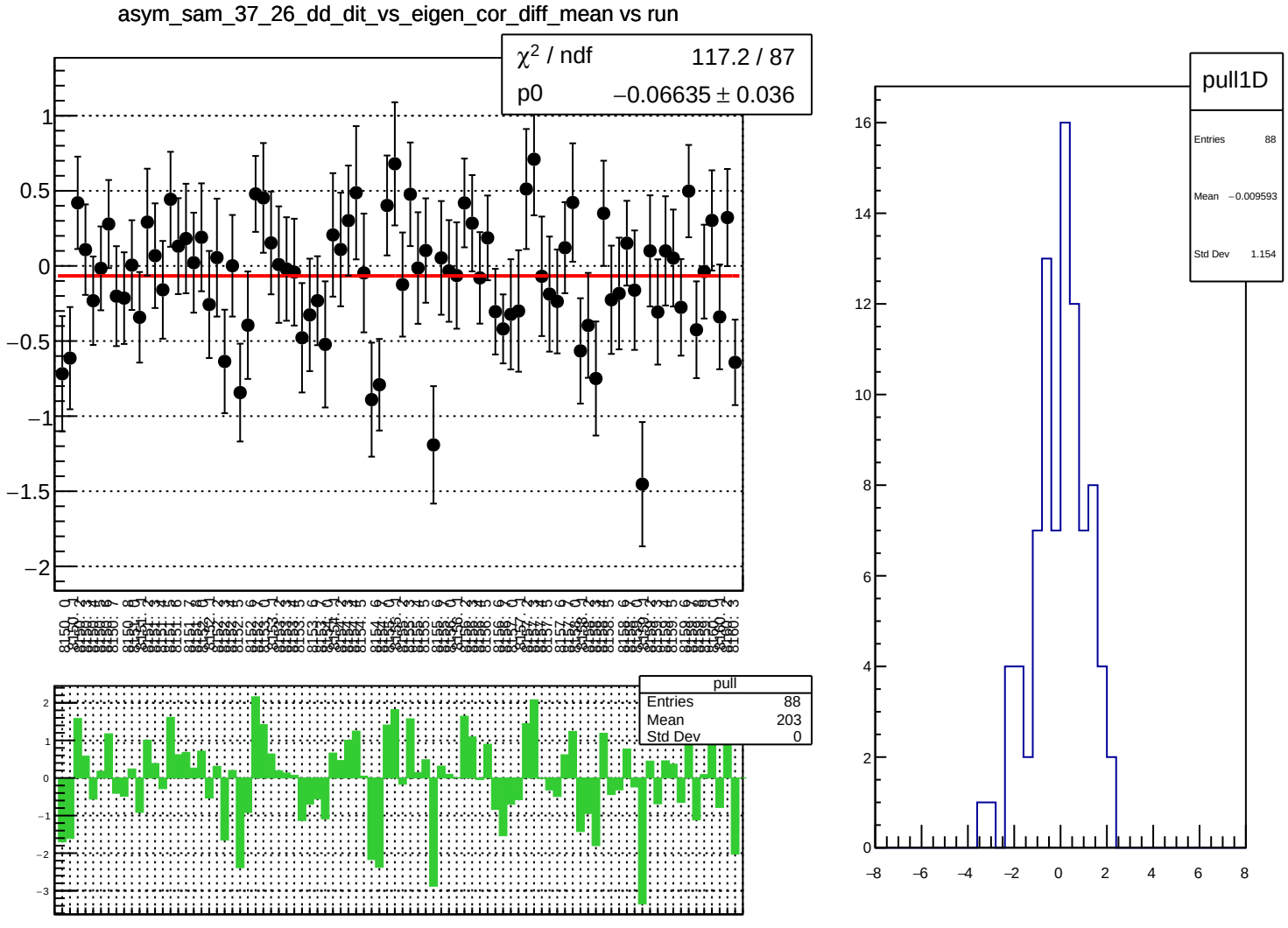

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 71.4 / 87
p0 2.236e−14 ± 1.654e−14
pull
Entries 88
Mean 251.1
Std Dev 0
pull1D
Entries 88
Mean −0.006576
Std Dev 0.9007

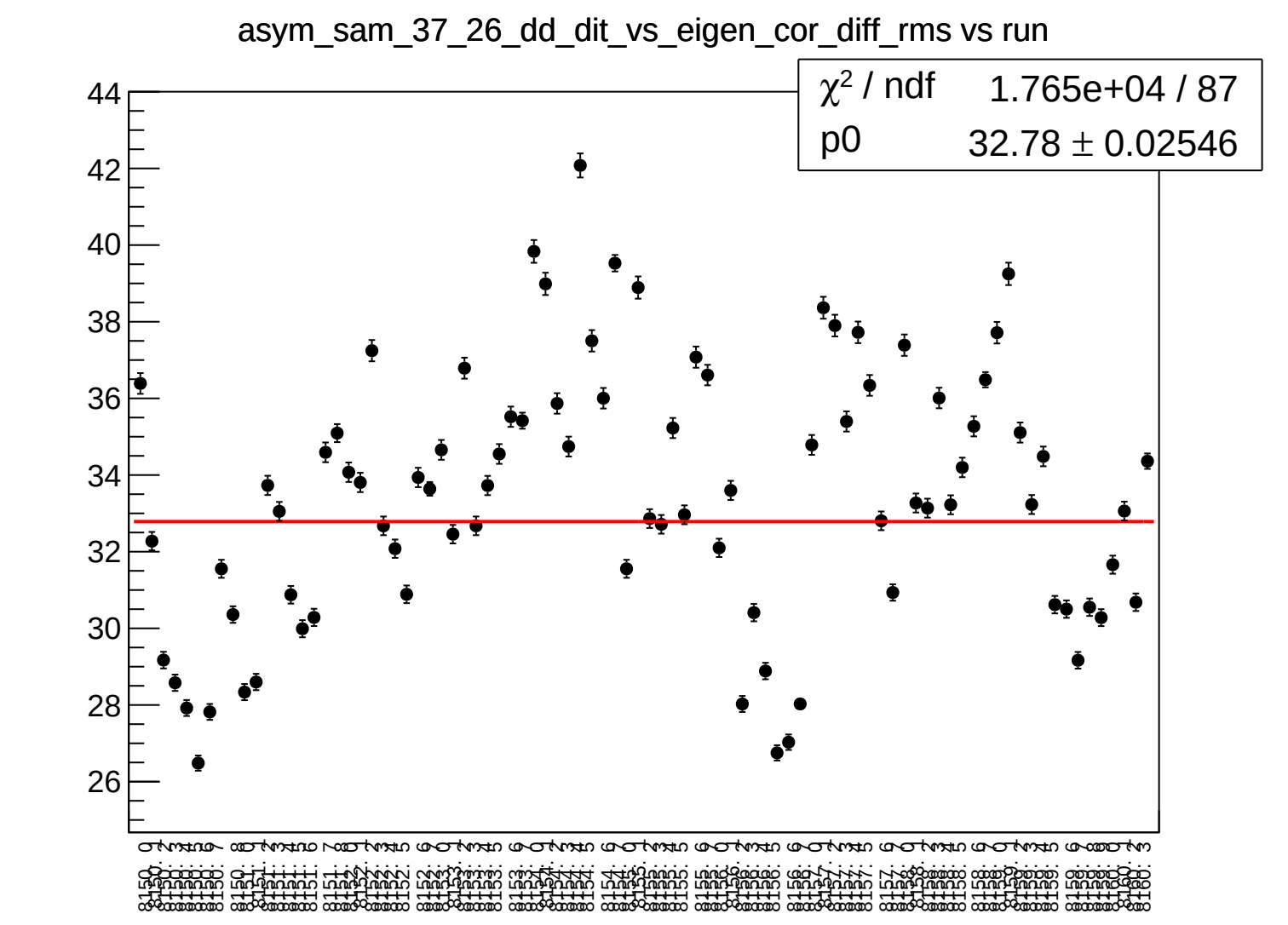

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.295e+05 / 87
p0 1.138e−11 ± 1.169e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

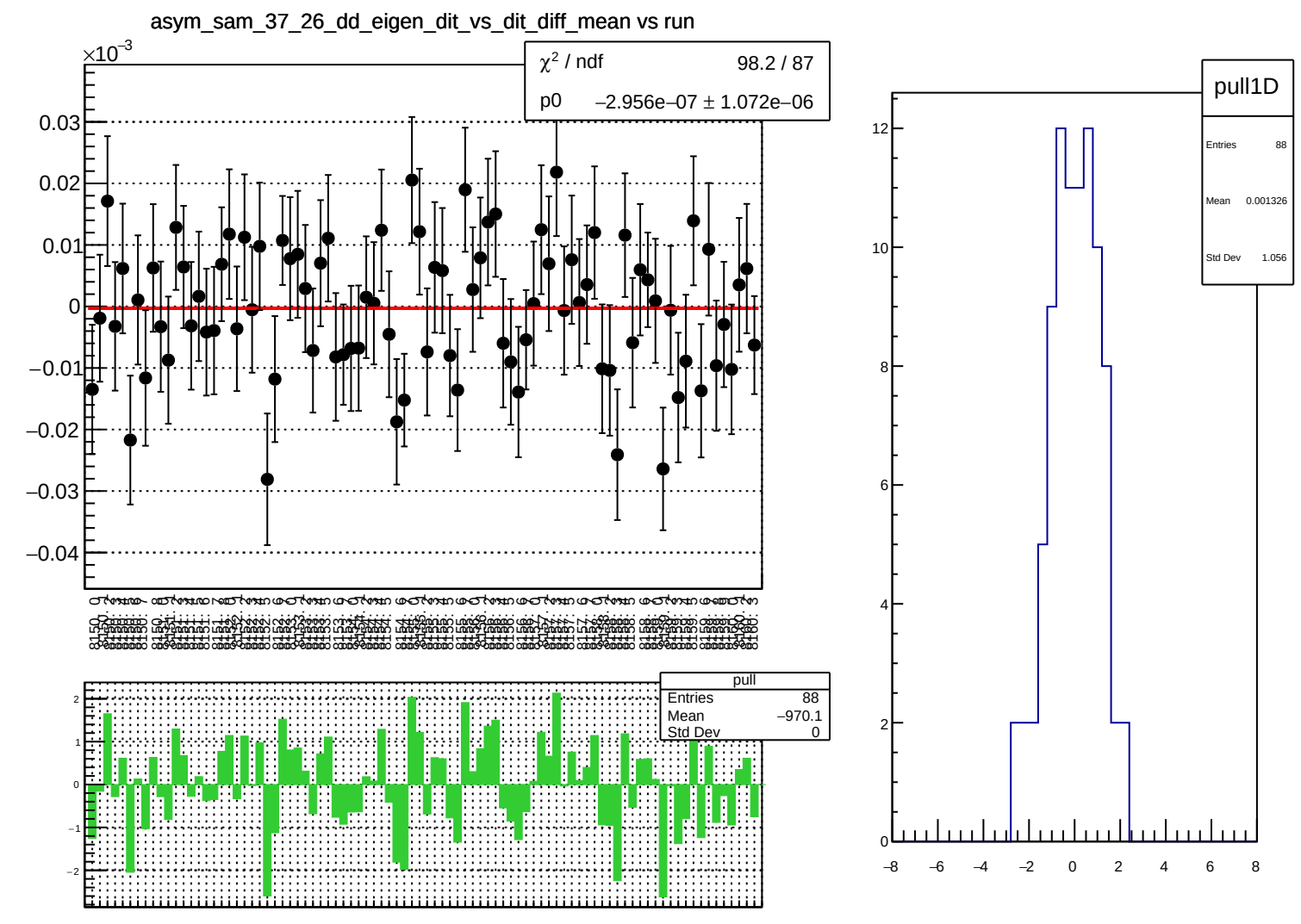

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 117.2 / 87
p0 −0.06635 ± 0.036
pull
Entries 88
Mean 203
Std Dev 0

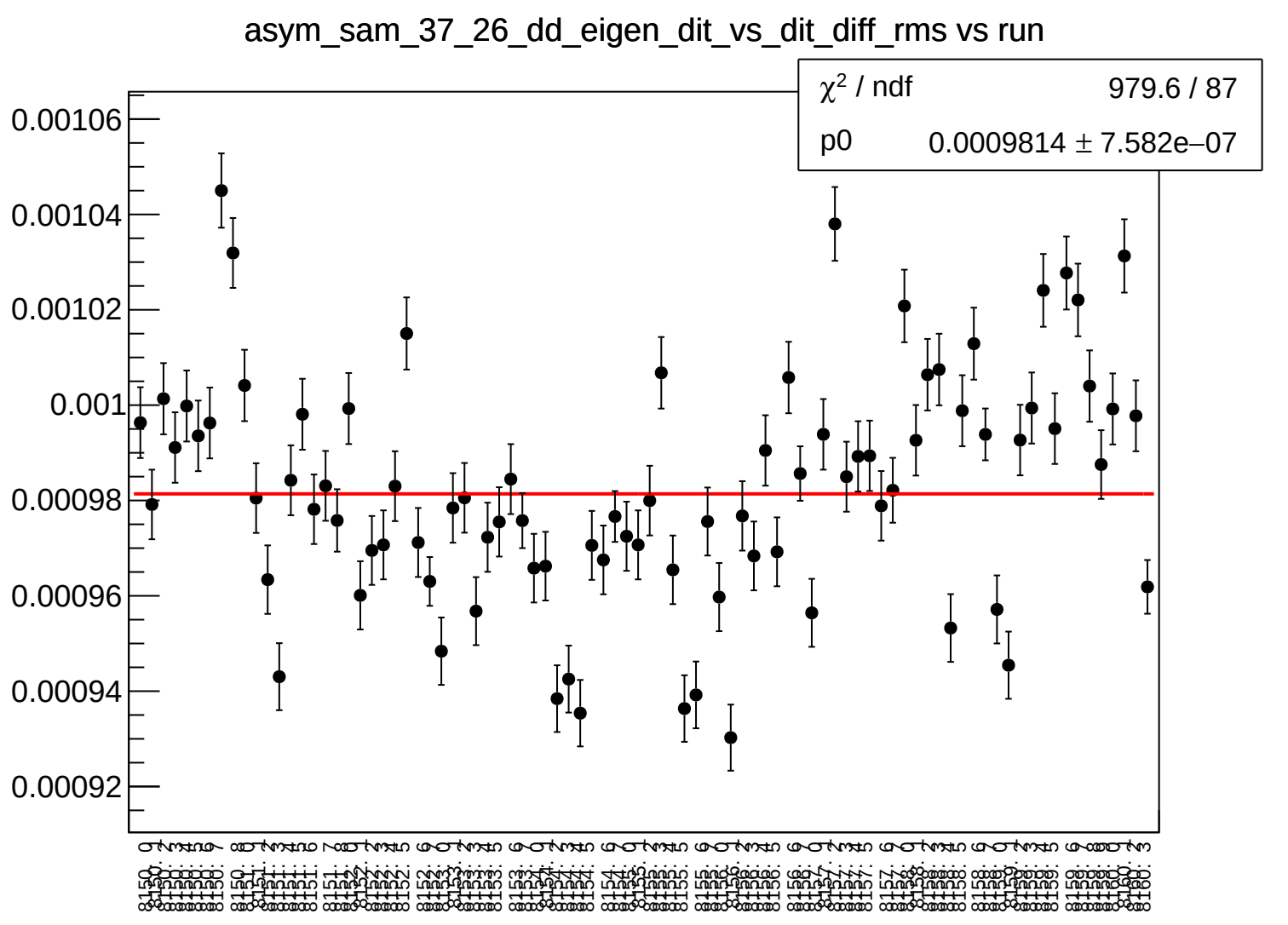

pull1D
Entries 88
Mean −0.009593
Std Dev 1.154

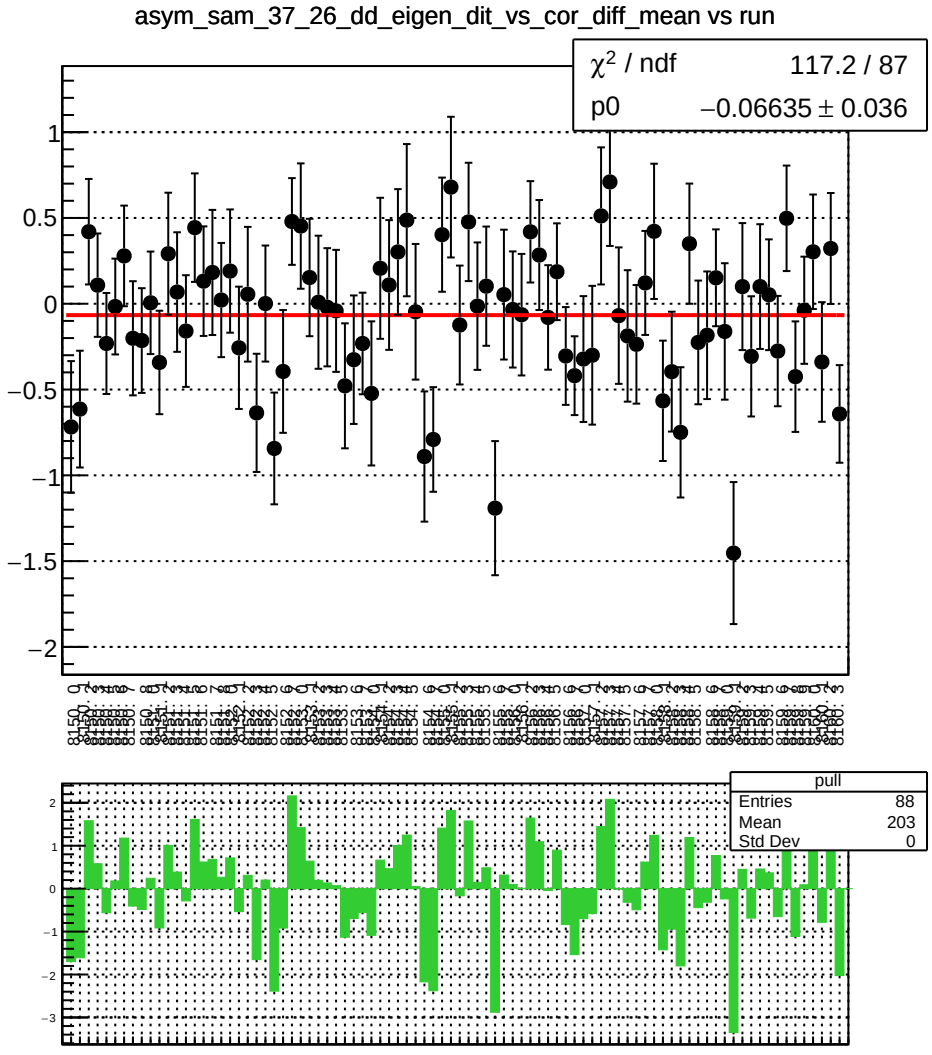

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.765e+04 / 87
p0 32.78 ± 0.02546
44
42
40
38
36
34
32
30
28
26

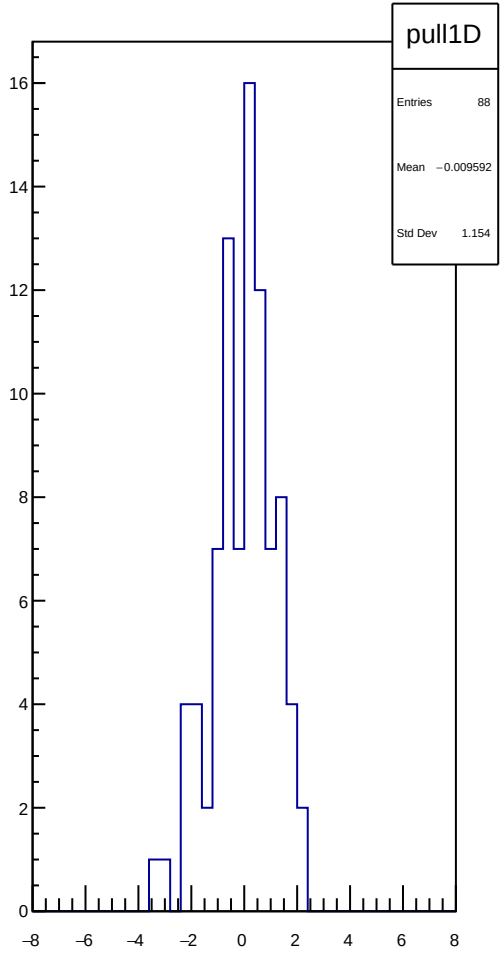

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.2 / 87
p0 −0.06635 ± 0.036
pull
Entries 88
Mean 203
Std Dev 0
pull1D
Entries 88
Mean −0.009593
Std Dev 1.154

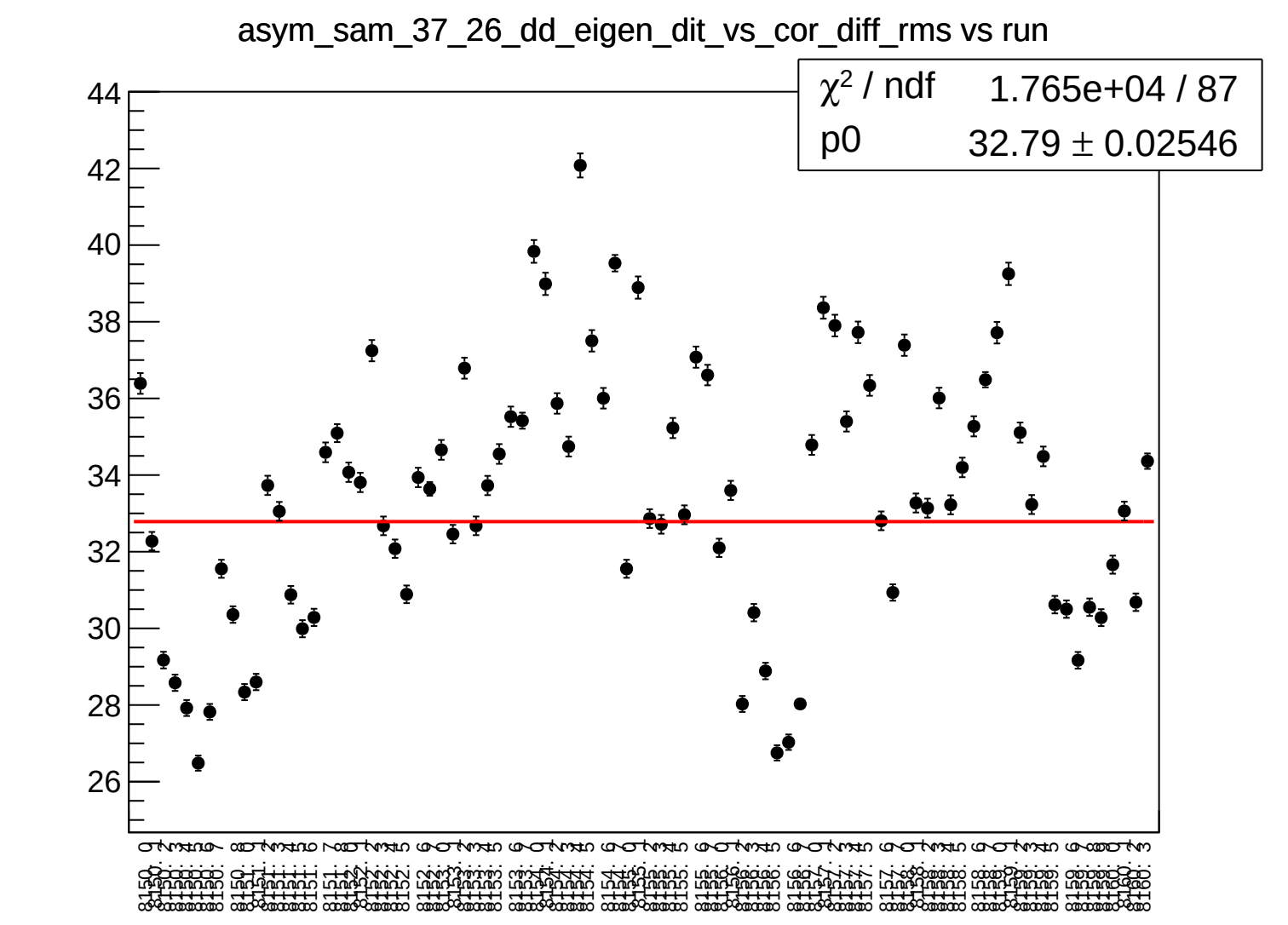

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.765e+04 / 87
p0 32.78 ± 0.02546
44
42
40
38
36
34
32
30
28
26

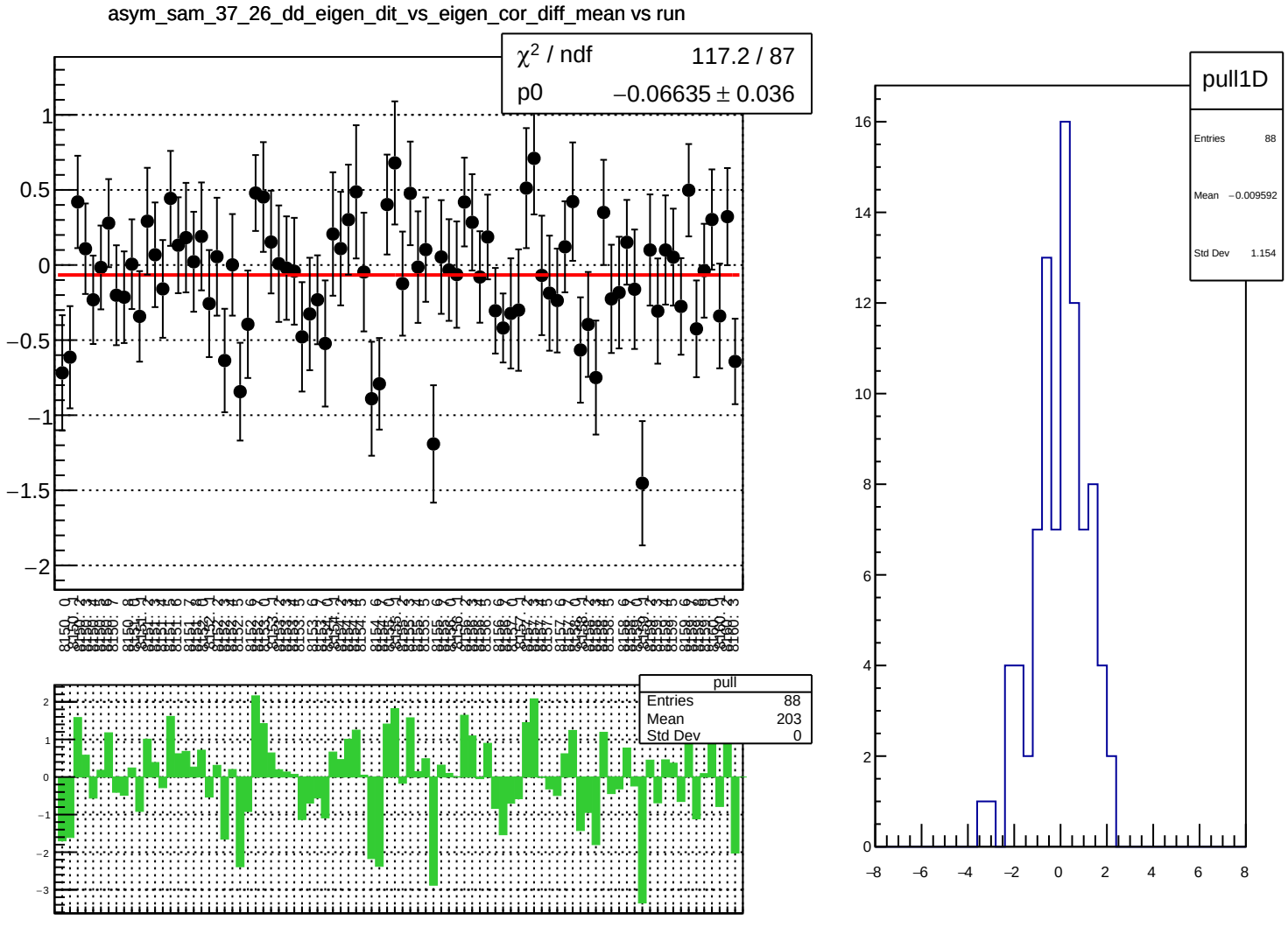

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 98.2 / 87
p0 −2.956e−07 ± 1.072e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 88
Mean −970.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001326
Std Dev 1.056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

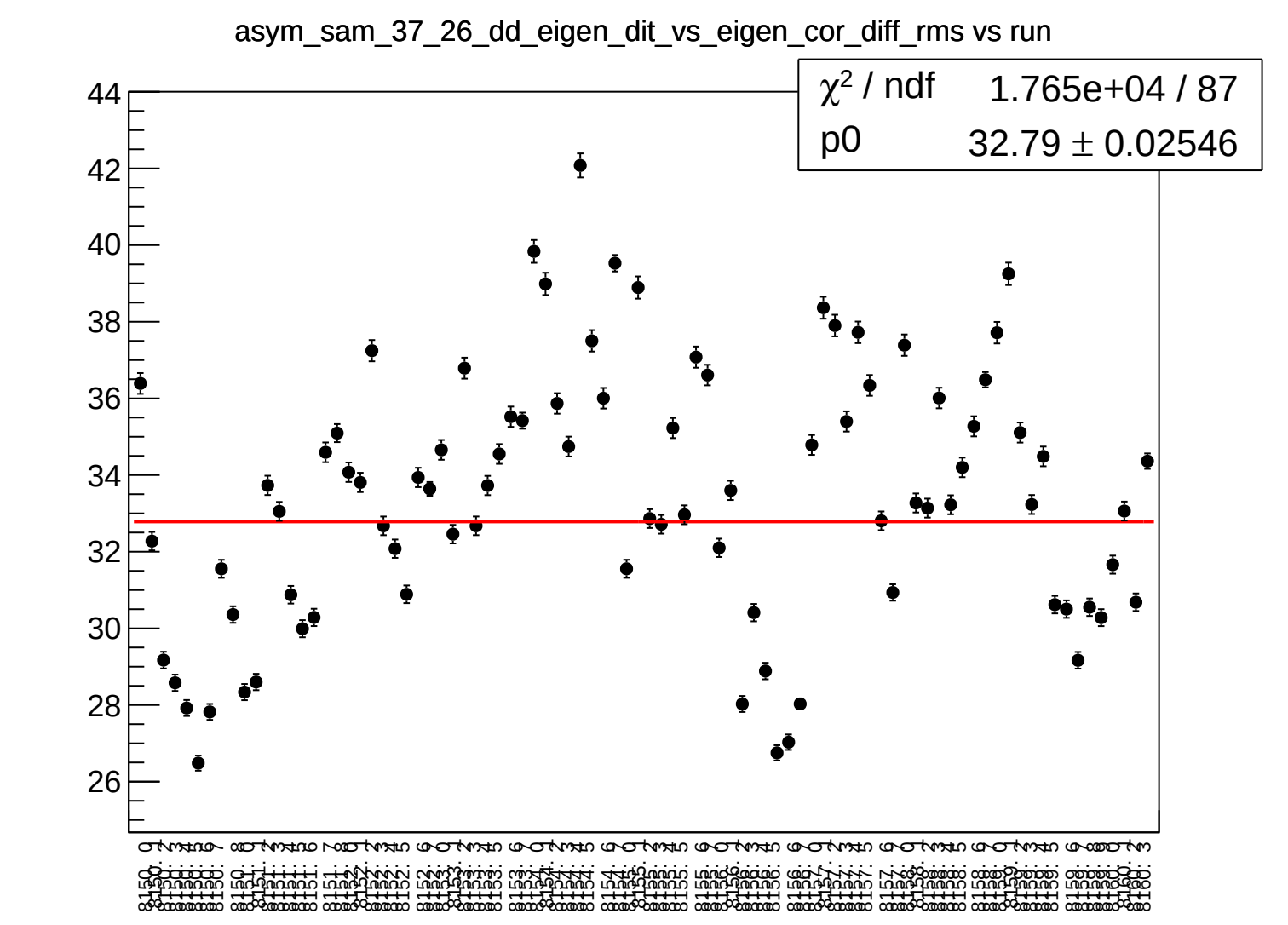

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 979.6 / 87
p0 0.0009814 ± 7.582e−07
0.00106
0.00104
0.00102
0.001
0.00098
0.00096
0.00094
0.00092

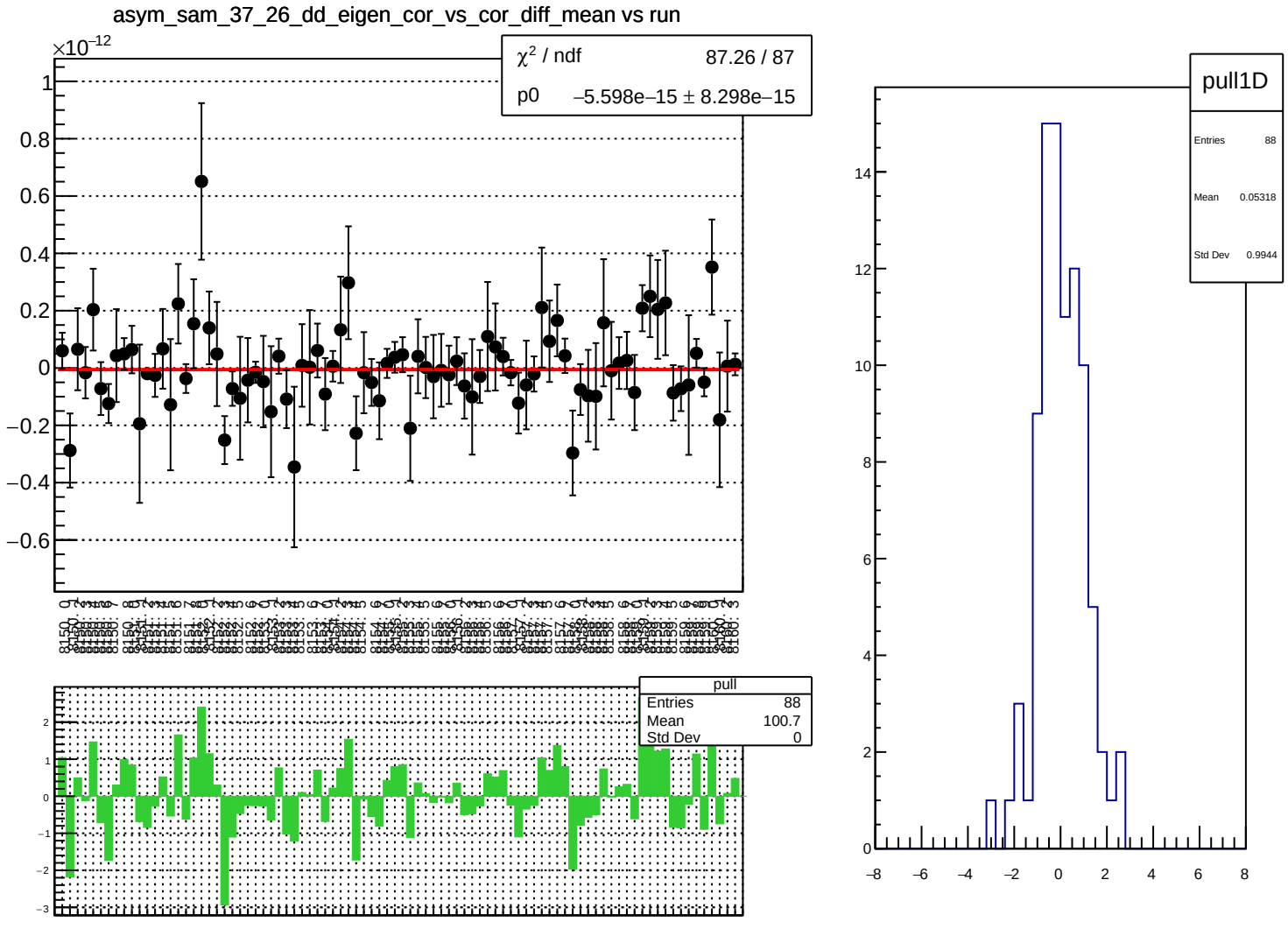

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 117.2 / 87
p0 −0.06635 ± 0.036
pull
Entries 88
Mean 203
Std Dev 0

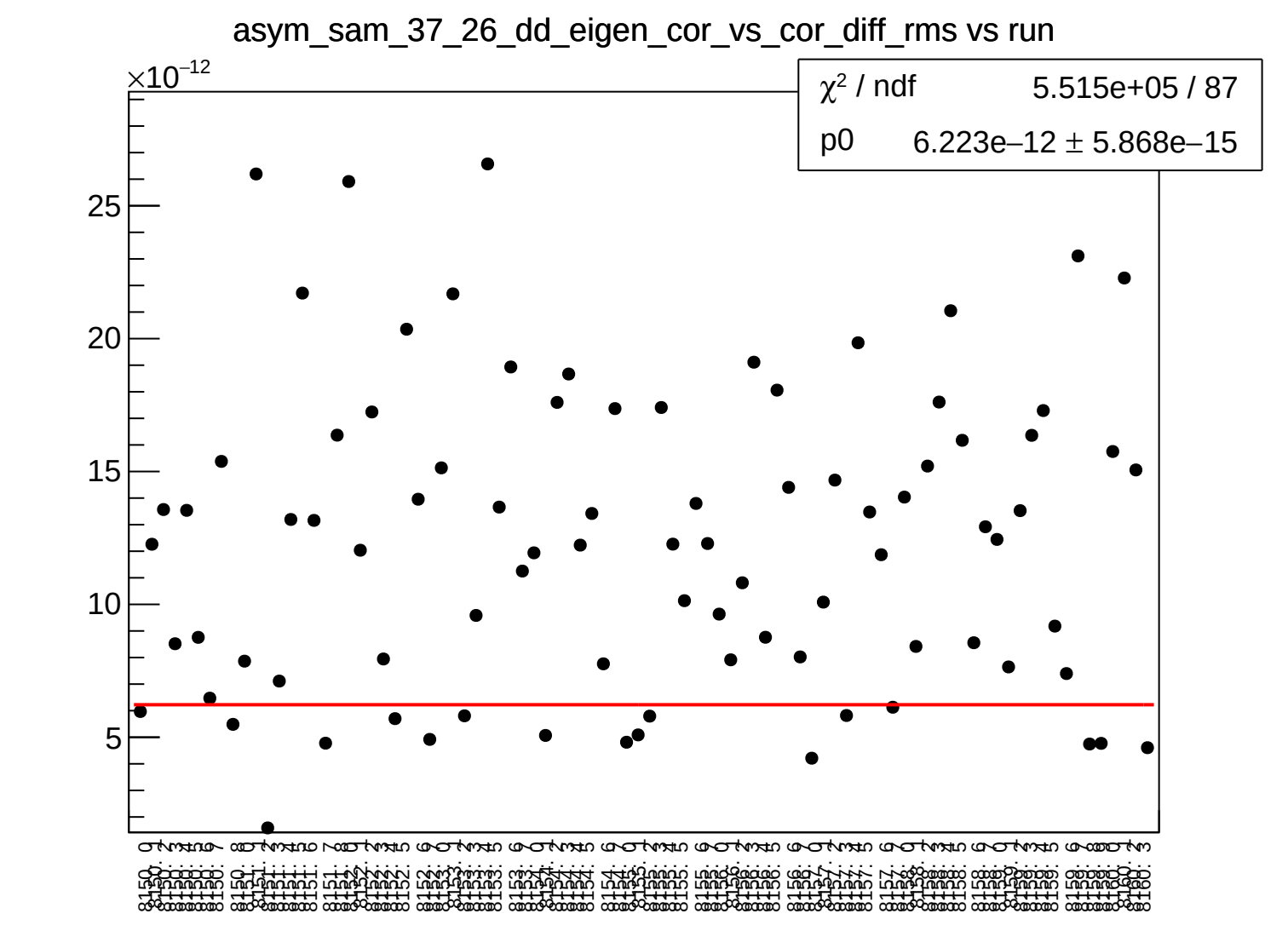

pull1D
Entries 88
Mean −0.009592
Std Dev 1.154

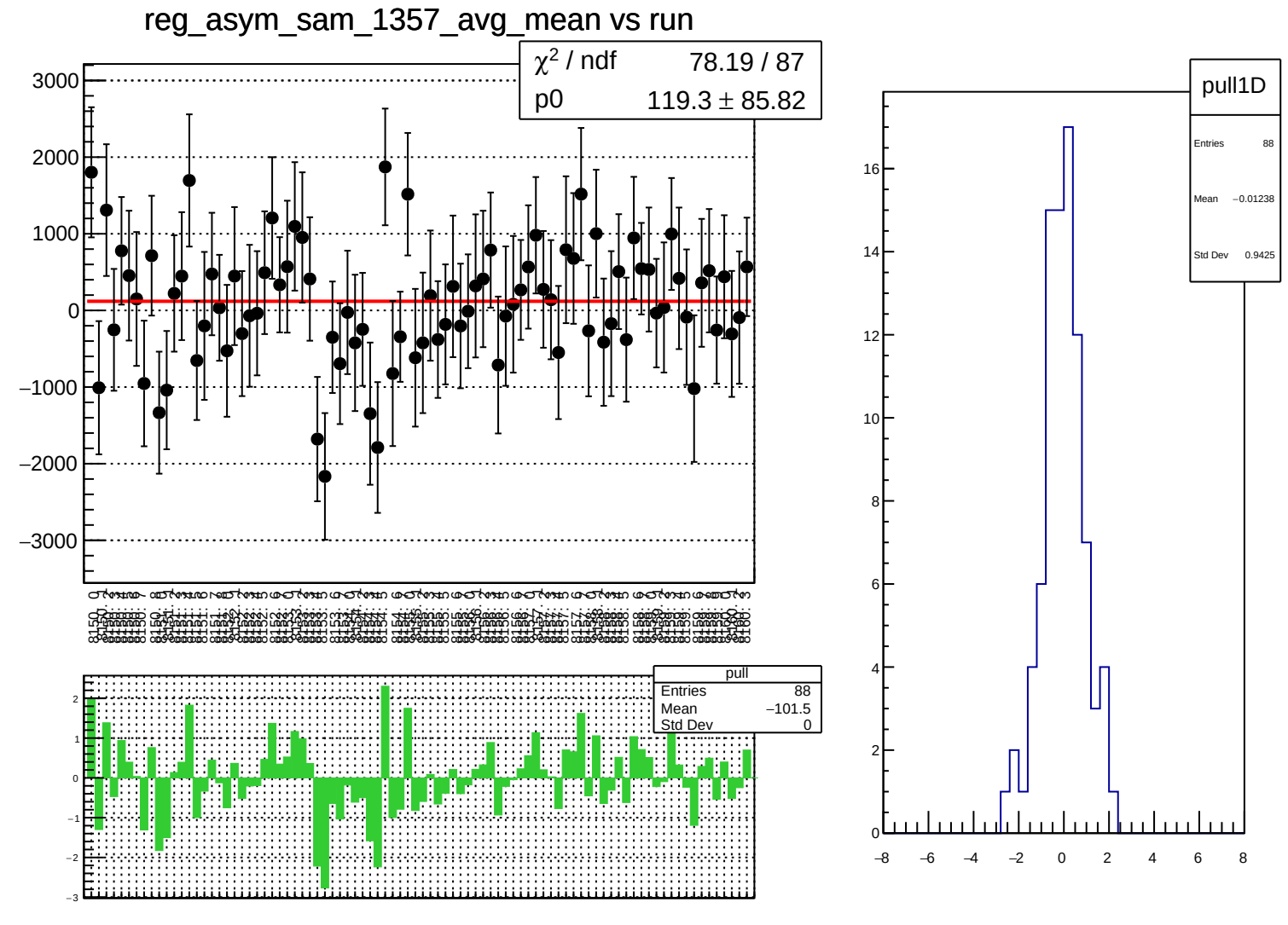

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.765e+04 / 87
p0 32.79 ± 0.02546
44
42
40
38
36
34
32
30
28
26

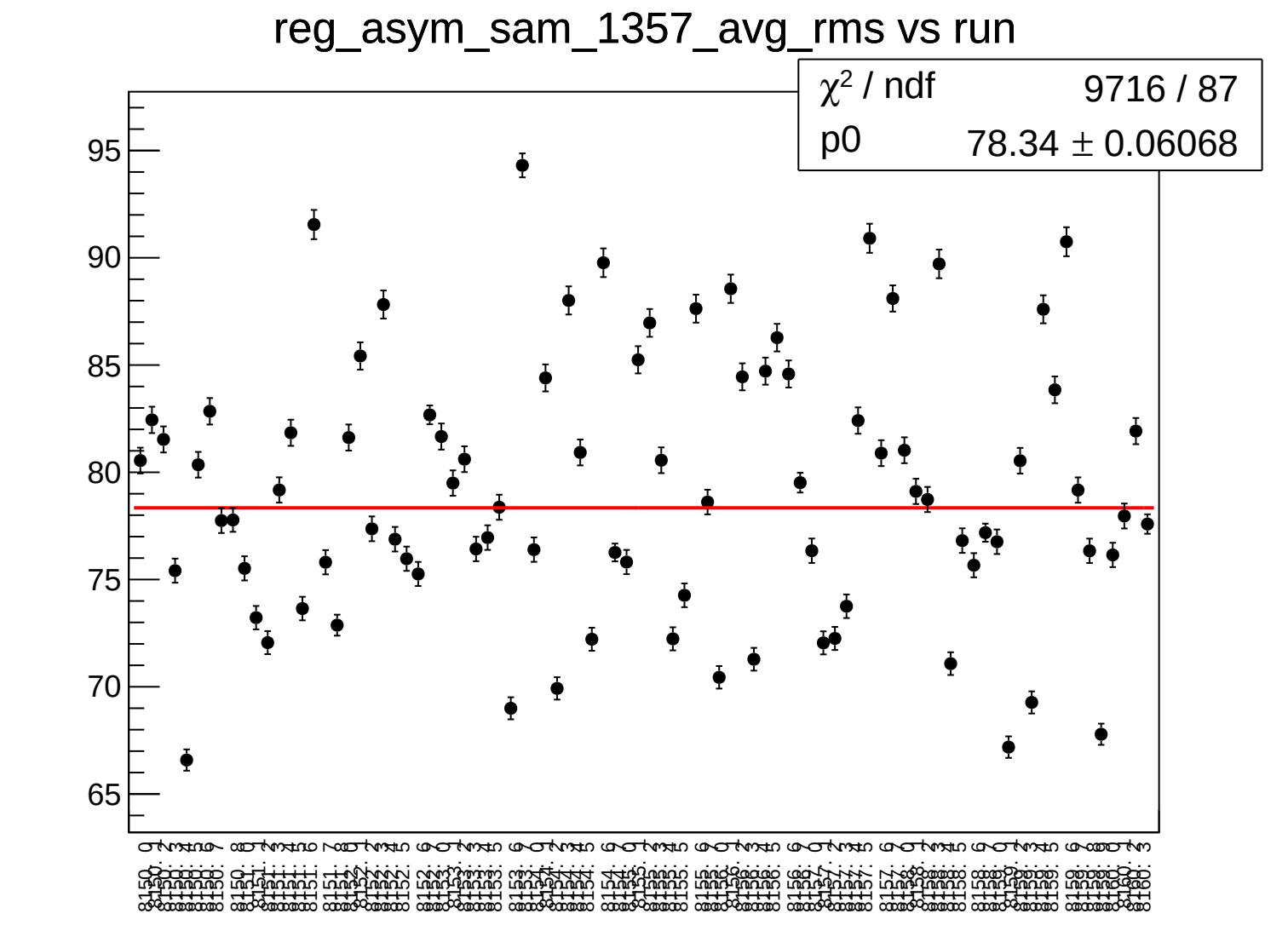

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.2 / 87
p0 −0.06635 ± 0.036
pull
Entries 88
Mean 203
Std Dev 0
pull1D
Entries 88
Mean −0.009592
Std Dev 1.154

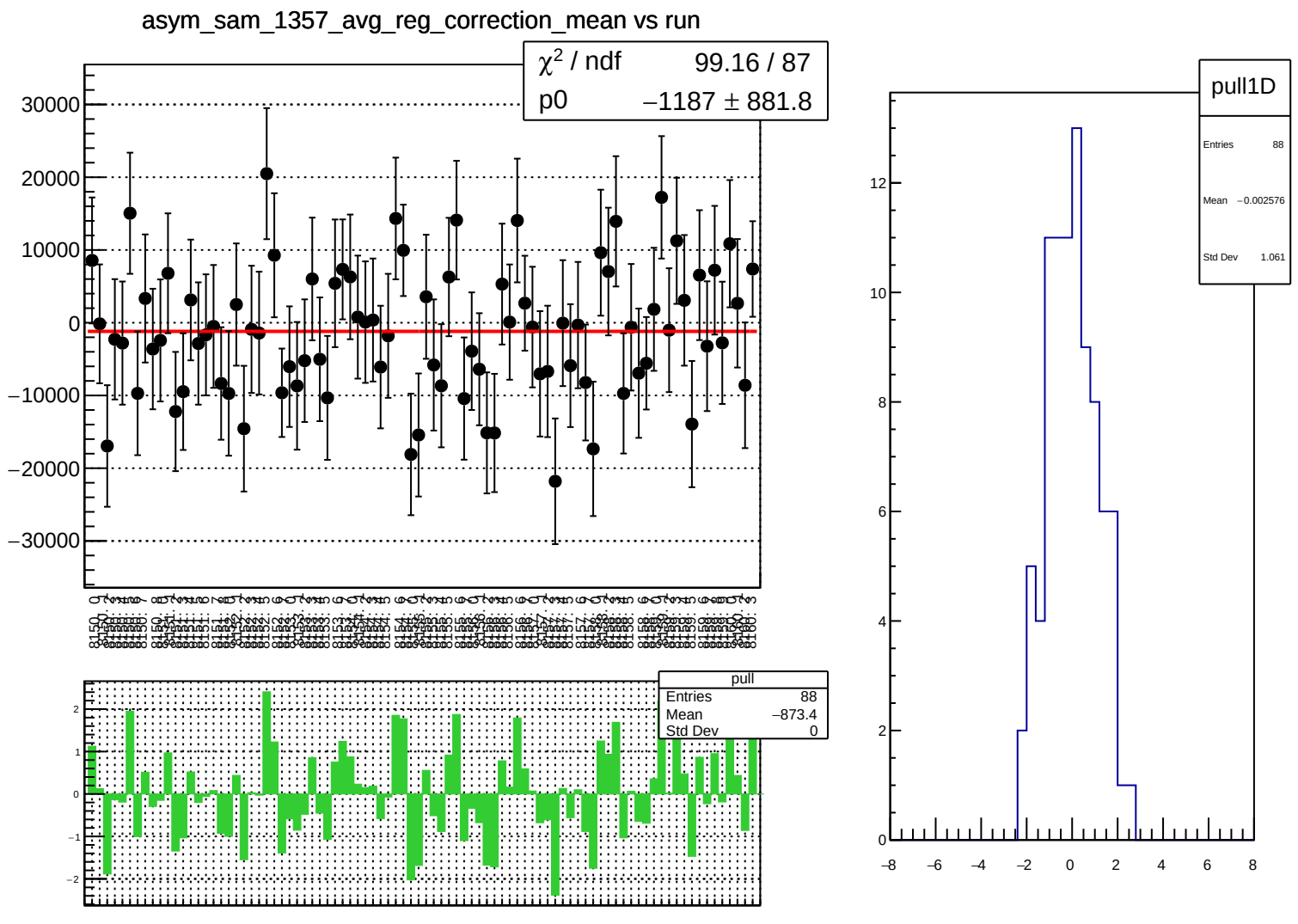

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.765e+04 / 87
p0 32.79 ± 0.02546
44
42
40
38
36
34
32
30
28
26

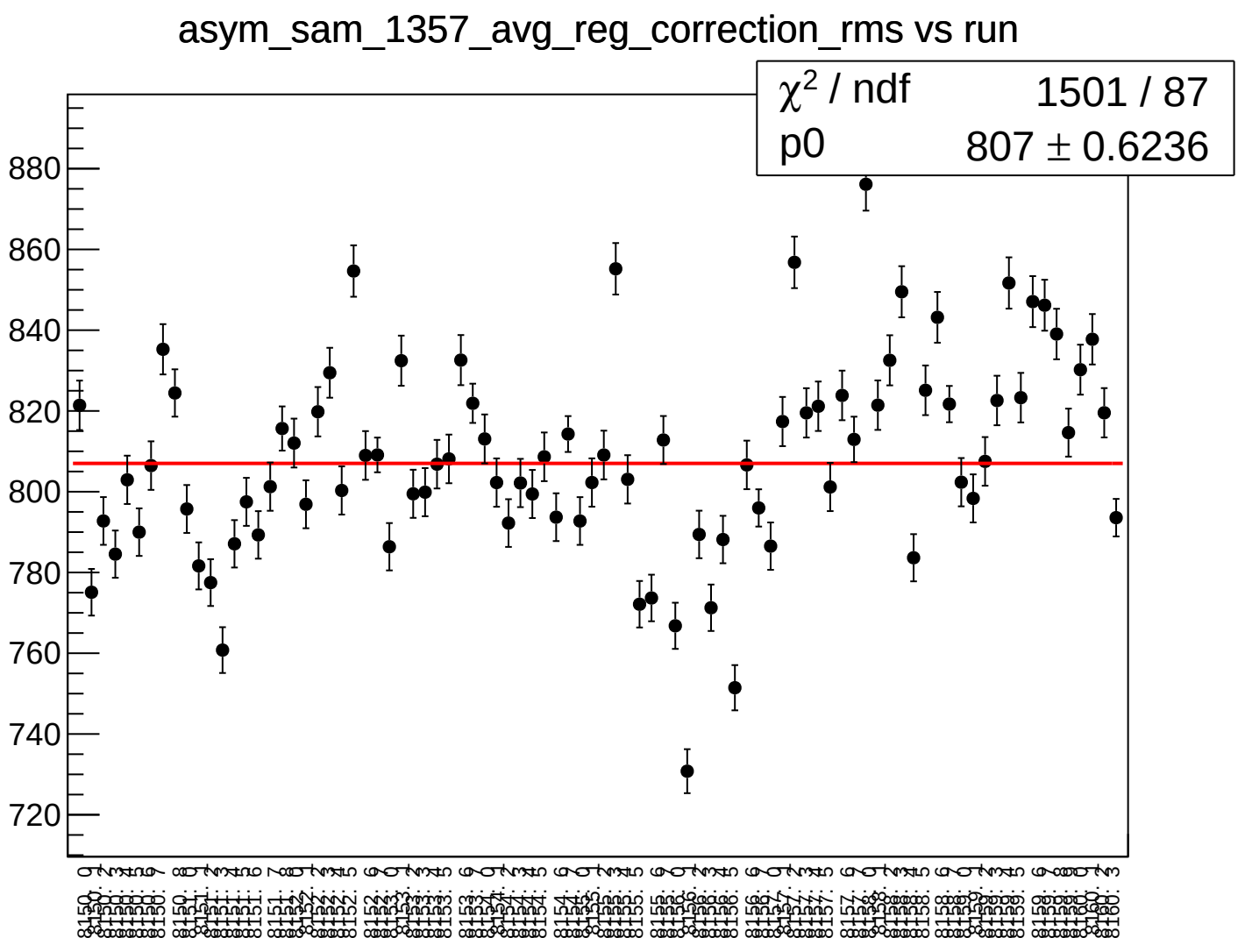

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.26 / 87
p0 −5.598e−15 ± 8.298e−15
pull
Entries 88
Mean 100.7
Std Dev 0
pull1D
Entries 88
Mean 0.05318
Std Dev 0.9944

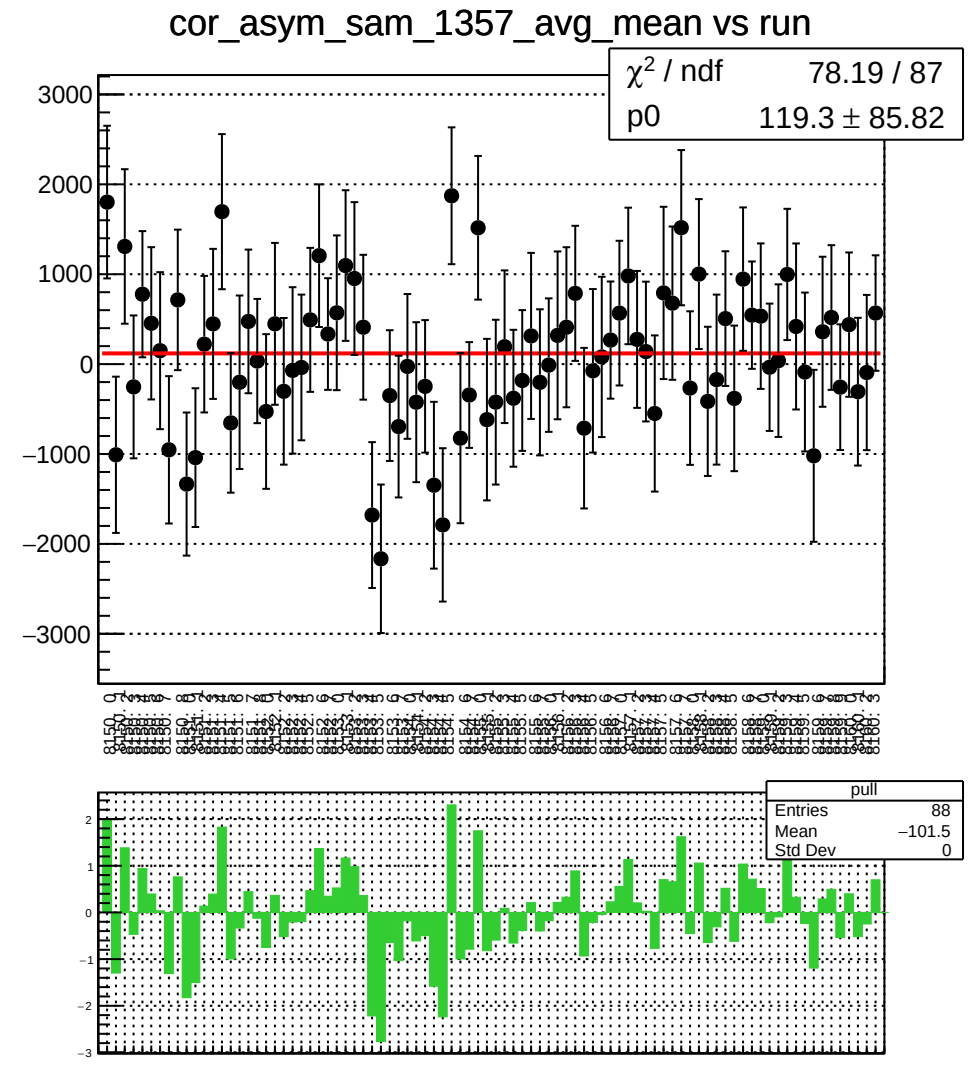

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.515e+05 / 87
p0 6.223e−12 ± 5.868e−15
25
20
15
10
5

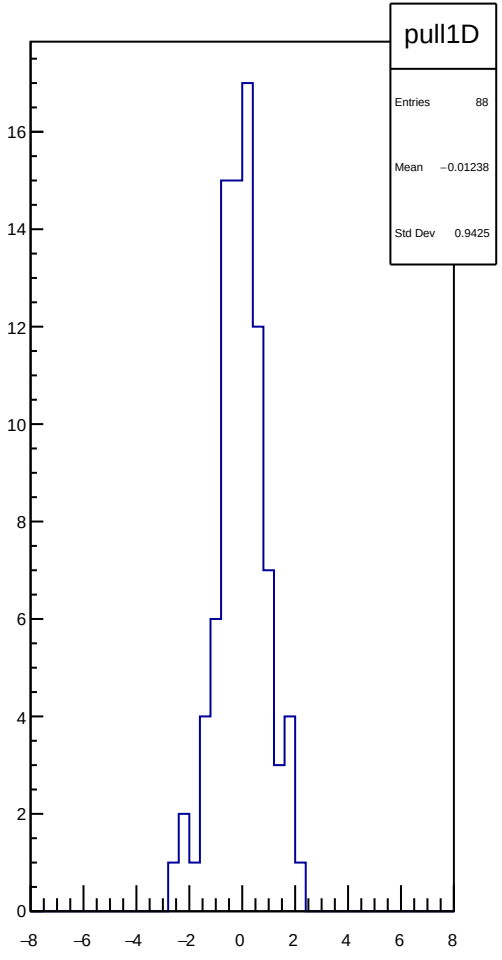

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 78.19 / 87
p0 119.3 ± 85.82
pull
Entries 88
Mean −101.5
Std Dev 0
pull1D
Entries 88
Mean −0.01238
Std Dev 0.9425

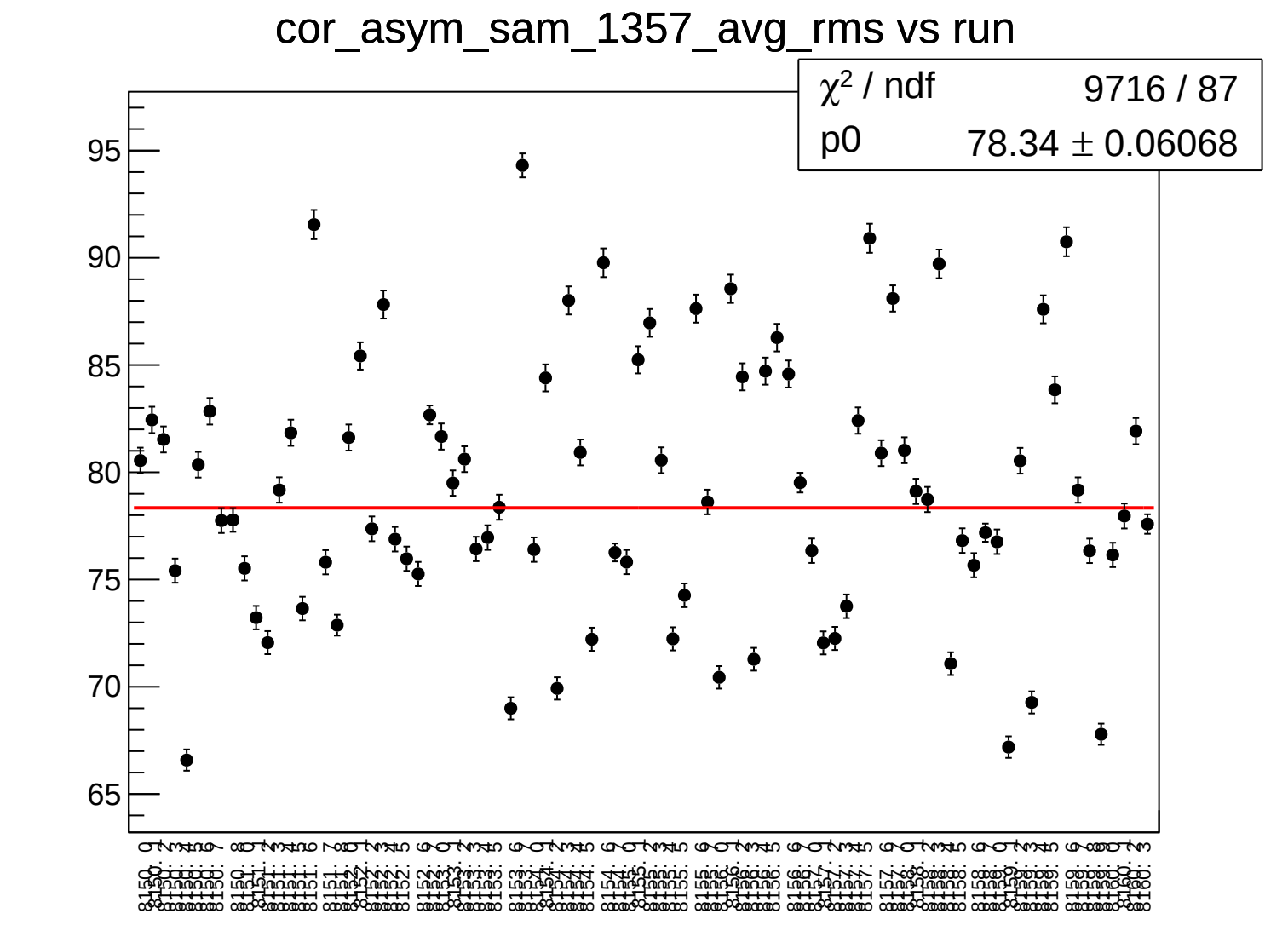

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 9716 / 87
p0 78.34 ± 0.06068
95
90
85
80
75
70
65

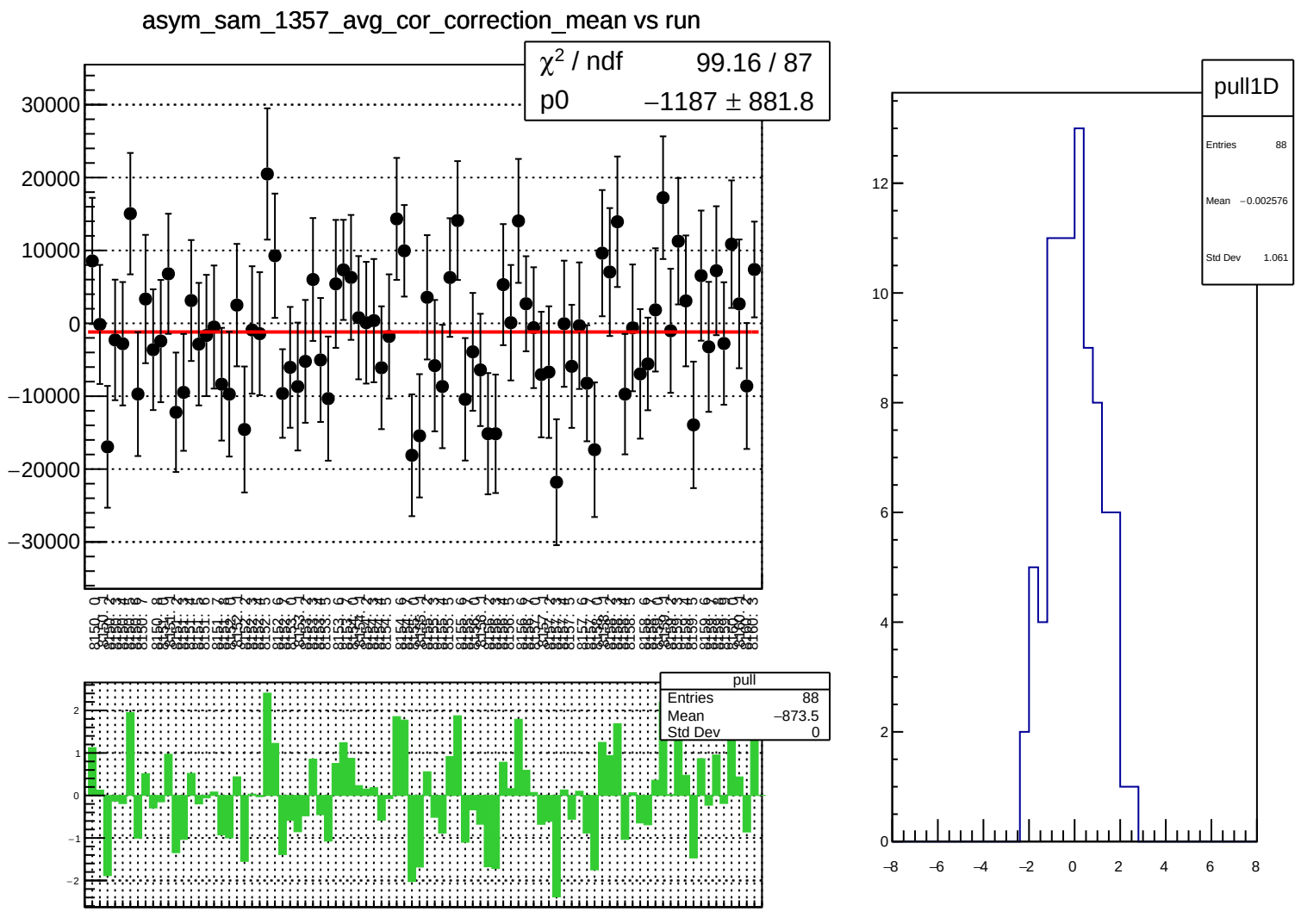

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 99.16 / 87
p0 −1187 ± 881.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −873.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002576
Std Dev 1.061
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

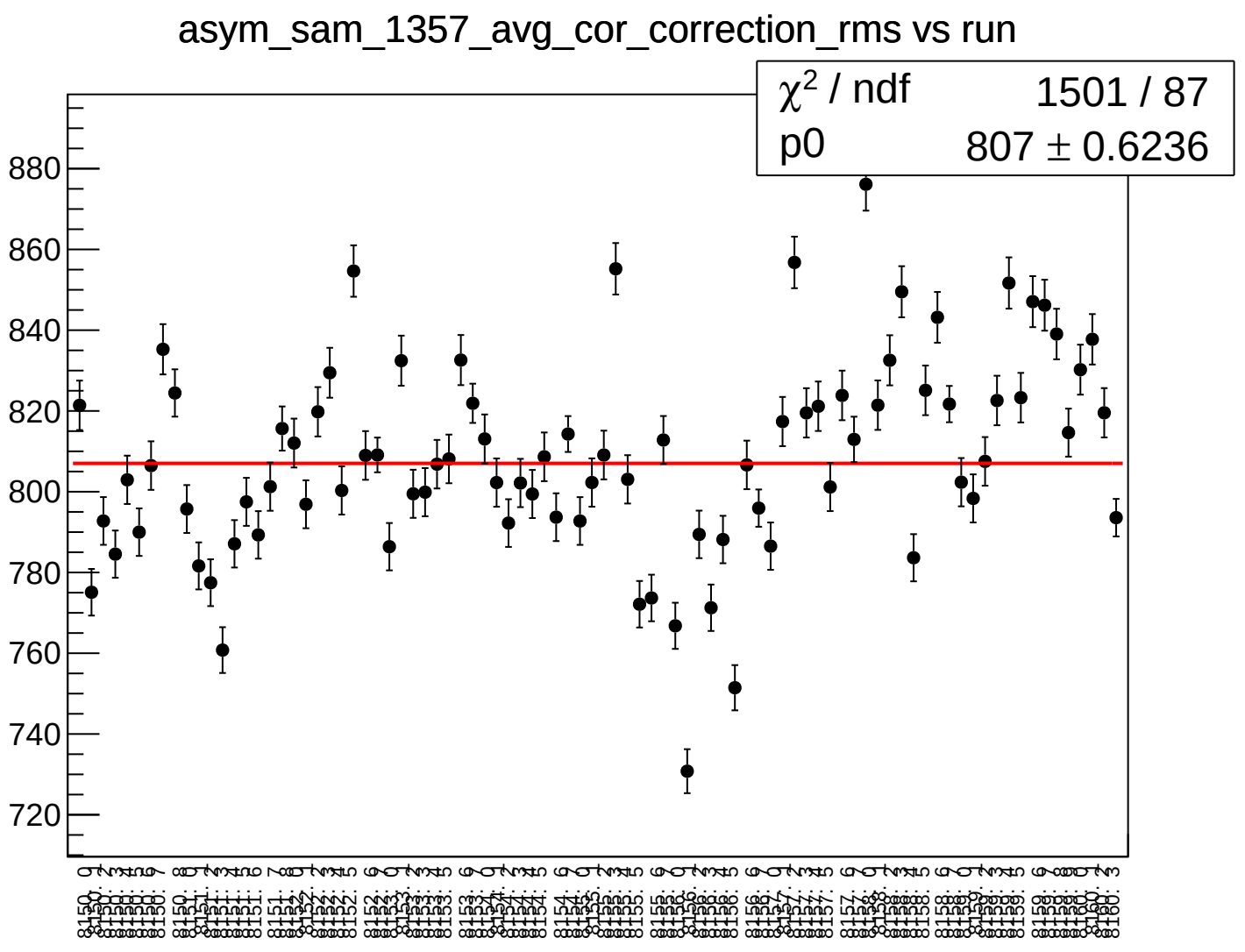

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1501 / 87
p0 807 ± 0.6236
880
860
840
820
800
780
760
740
720

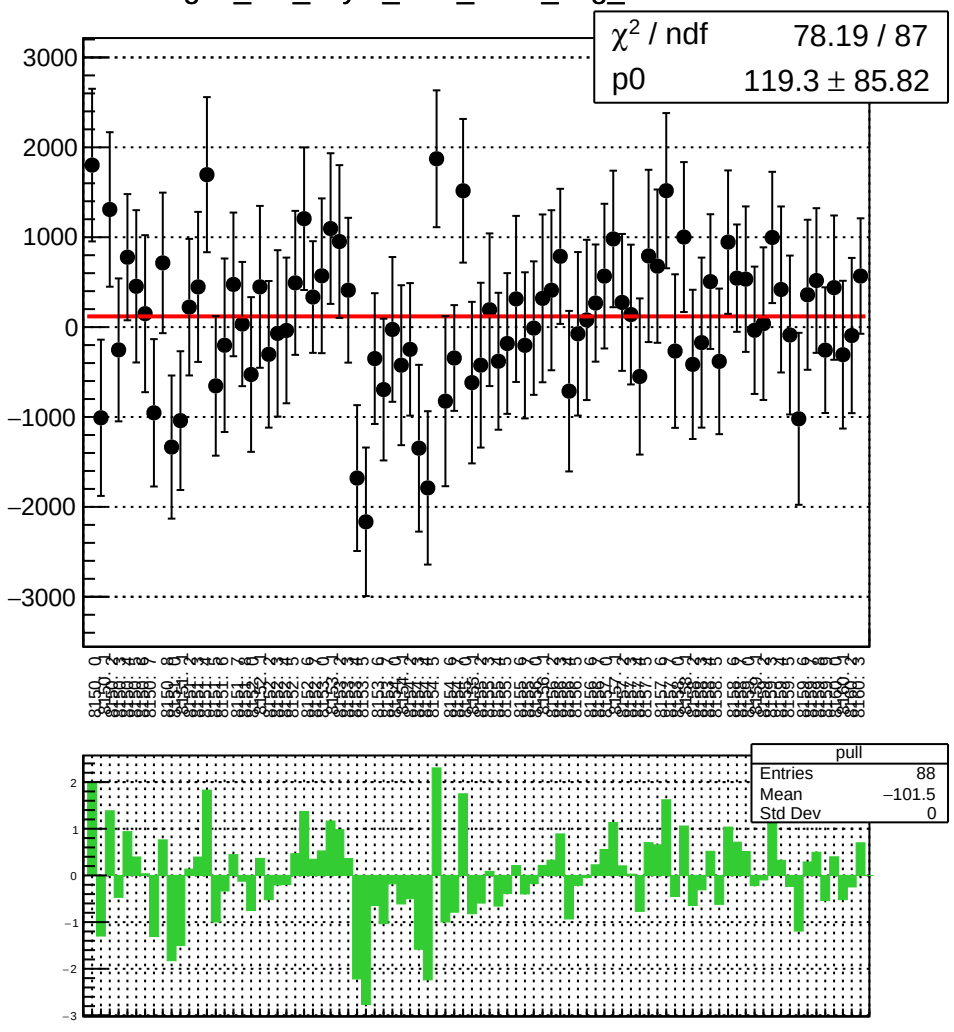

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 78.19 / 87
p0 119.3 ± 85.82
pull
Entries 88
Mean −101.5
Std Dev 0

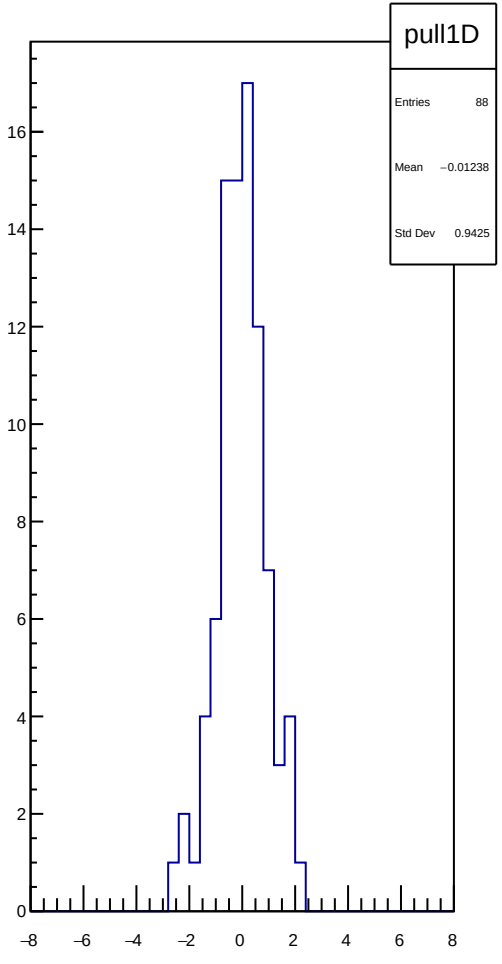

pull1D
Entries 88
Mean −0.01238
Std Dev 0.9425

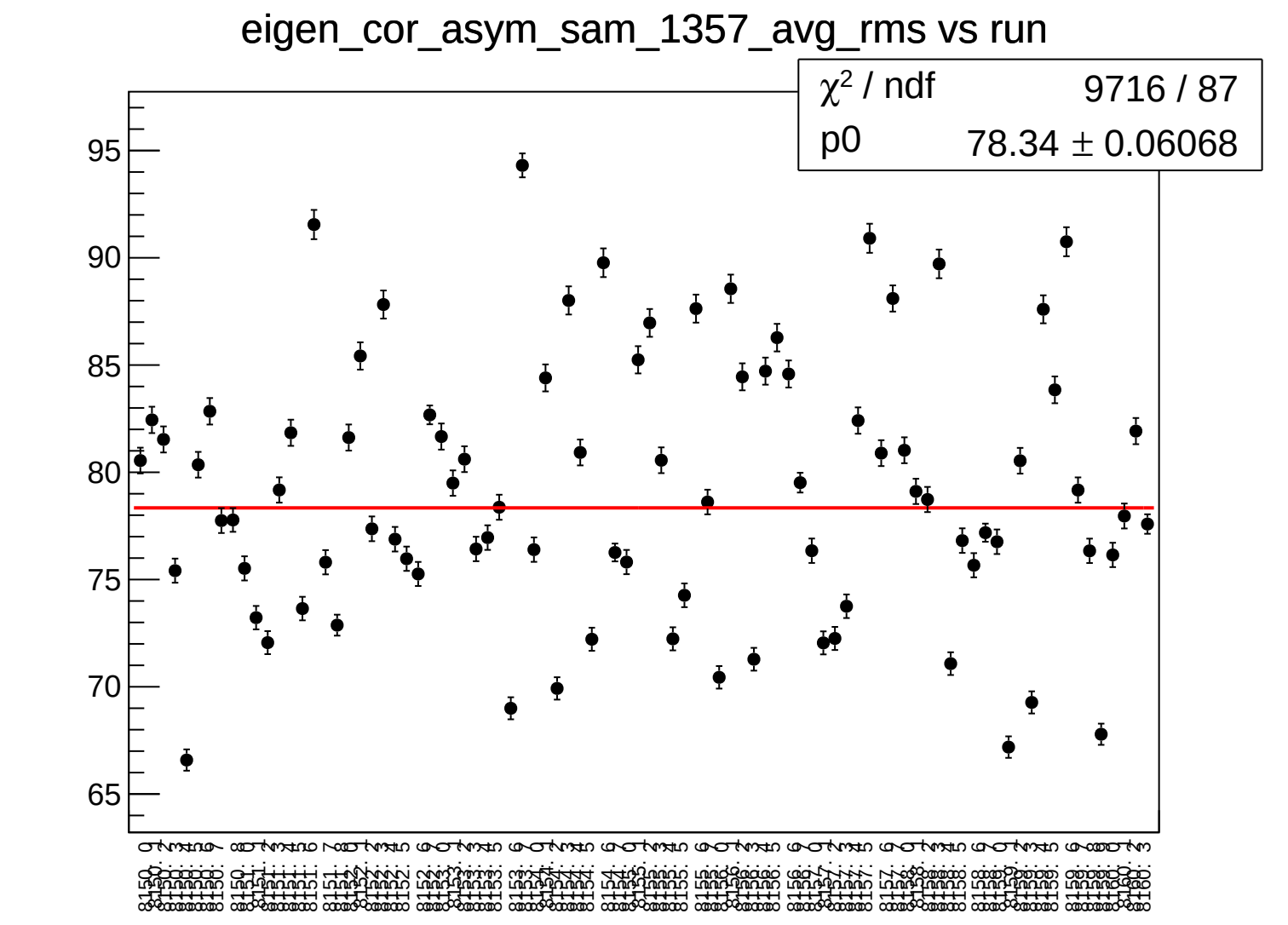

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 9716 / 87
p0 78.34 ± 0.06068
95
90
85
80
75
70
65

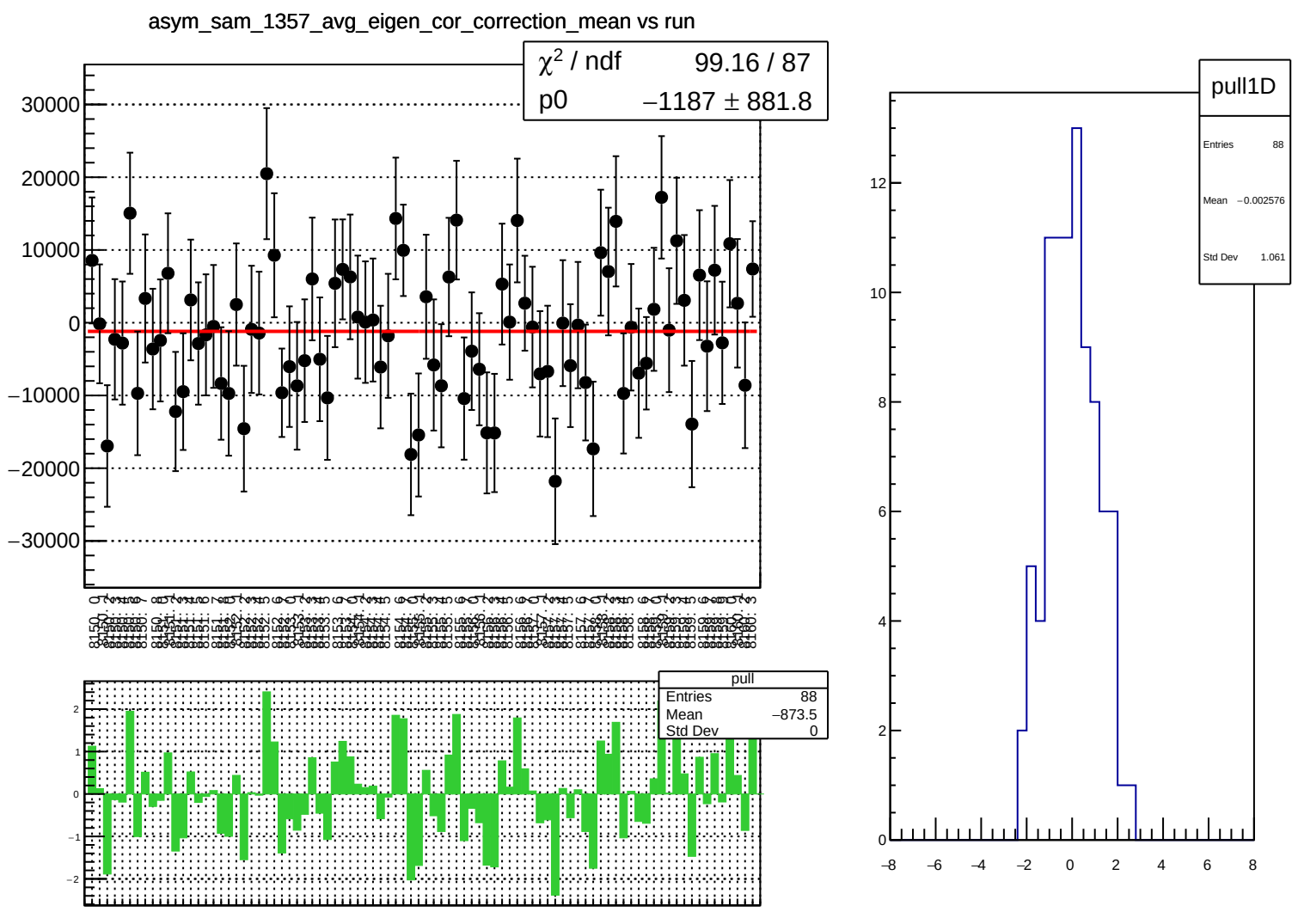

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 99.16 / 87
p0 −1187 ± 881.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −873.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002576
Std Dev 1.061
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

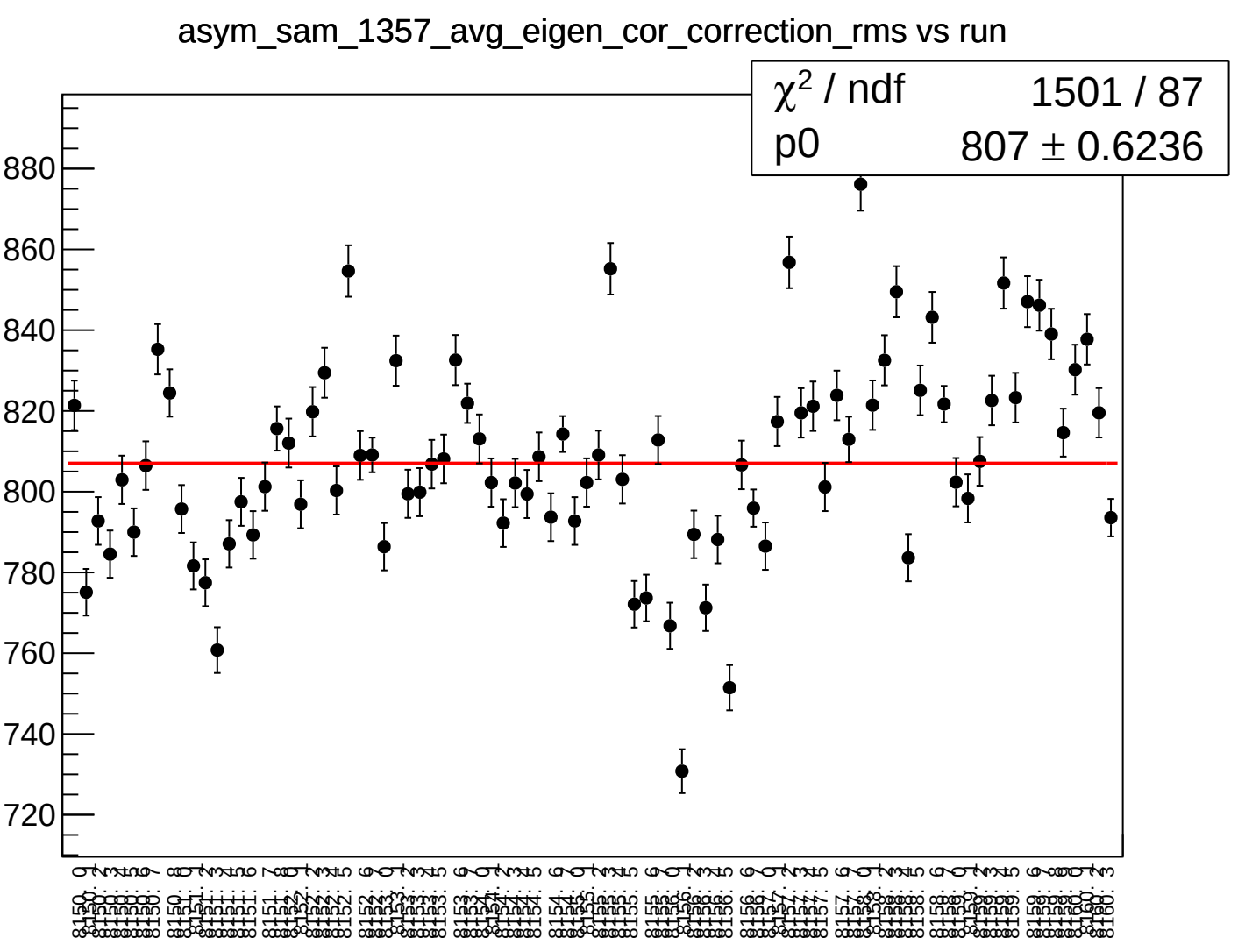

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1501 / 87
p0 807 ± 0.6236
880
860
840
820
800
780
760
740
720

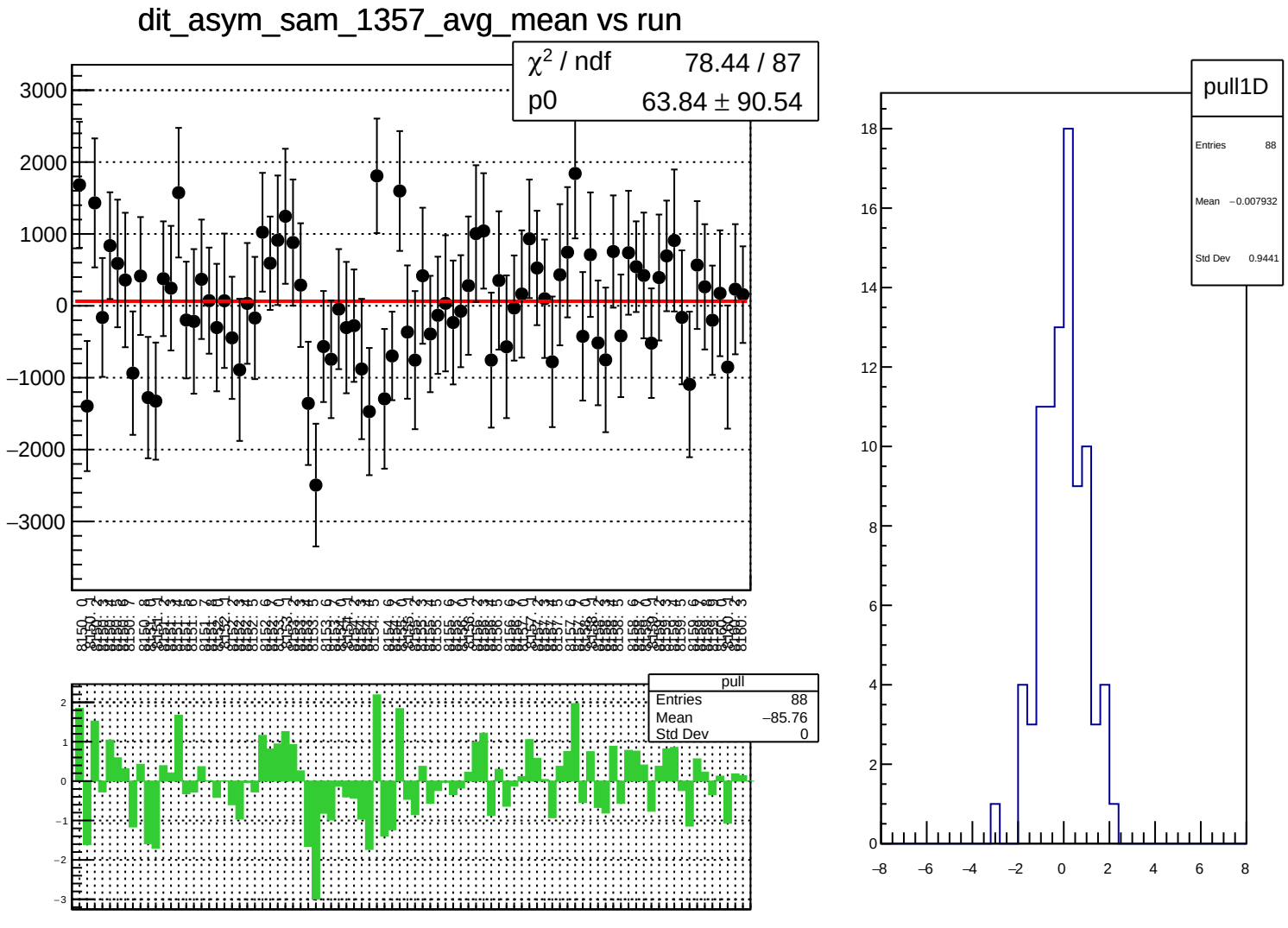

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 78.19 / 87
p0 119.3 ± 85.82
pull
Entries 88
Mean −101.5
Std Dev 0

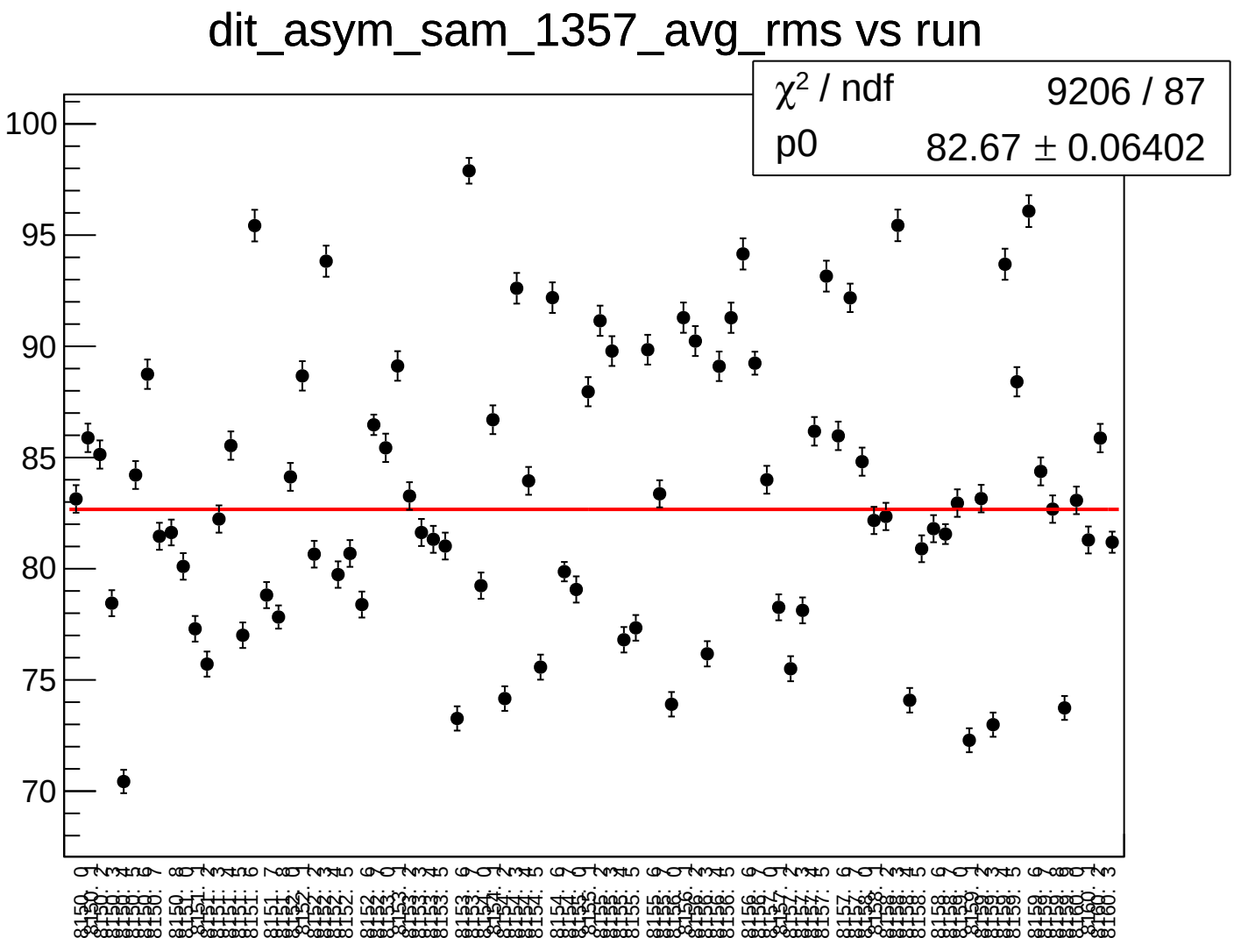

pull1D
Entries 88
Mean −0.01238
Std Dev 0.9425

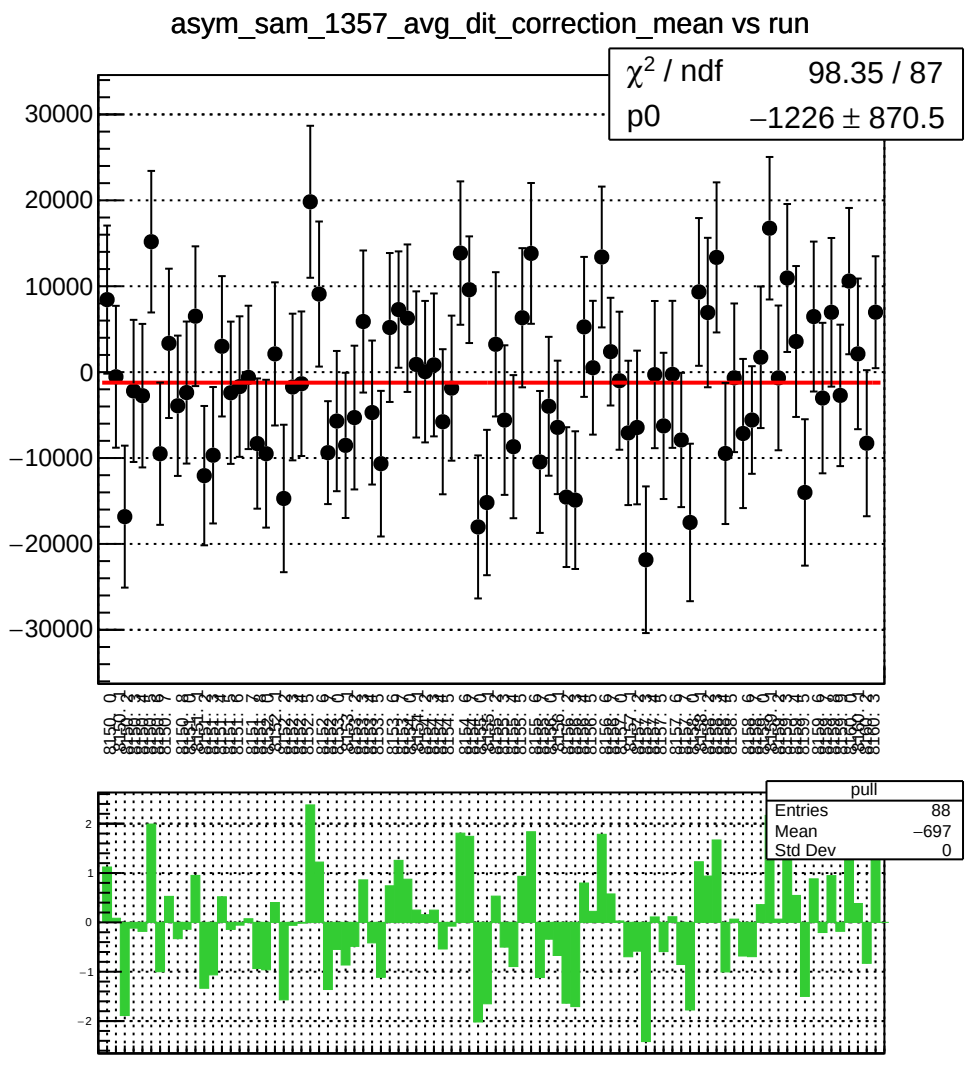

eigen_cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 9716 / 87
p0 78.34 ± 0.06068
95
90
85
80
75
70
65

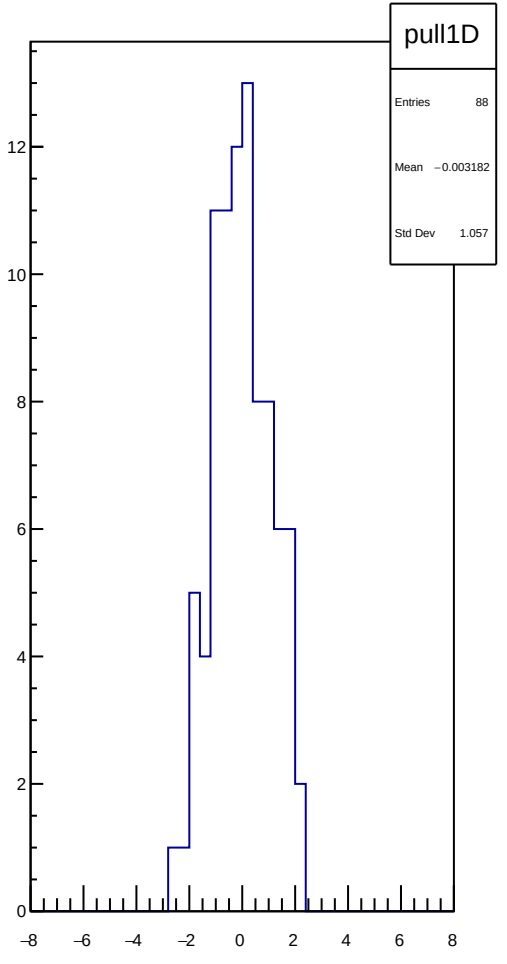

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.16 / 87
p0 −1187 ± 881.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −873.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002576
Std Dev 1.061
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

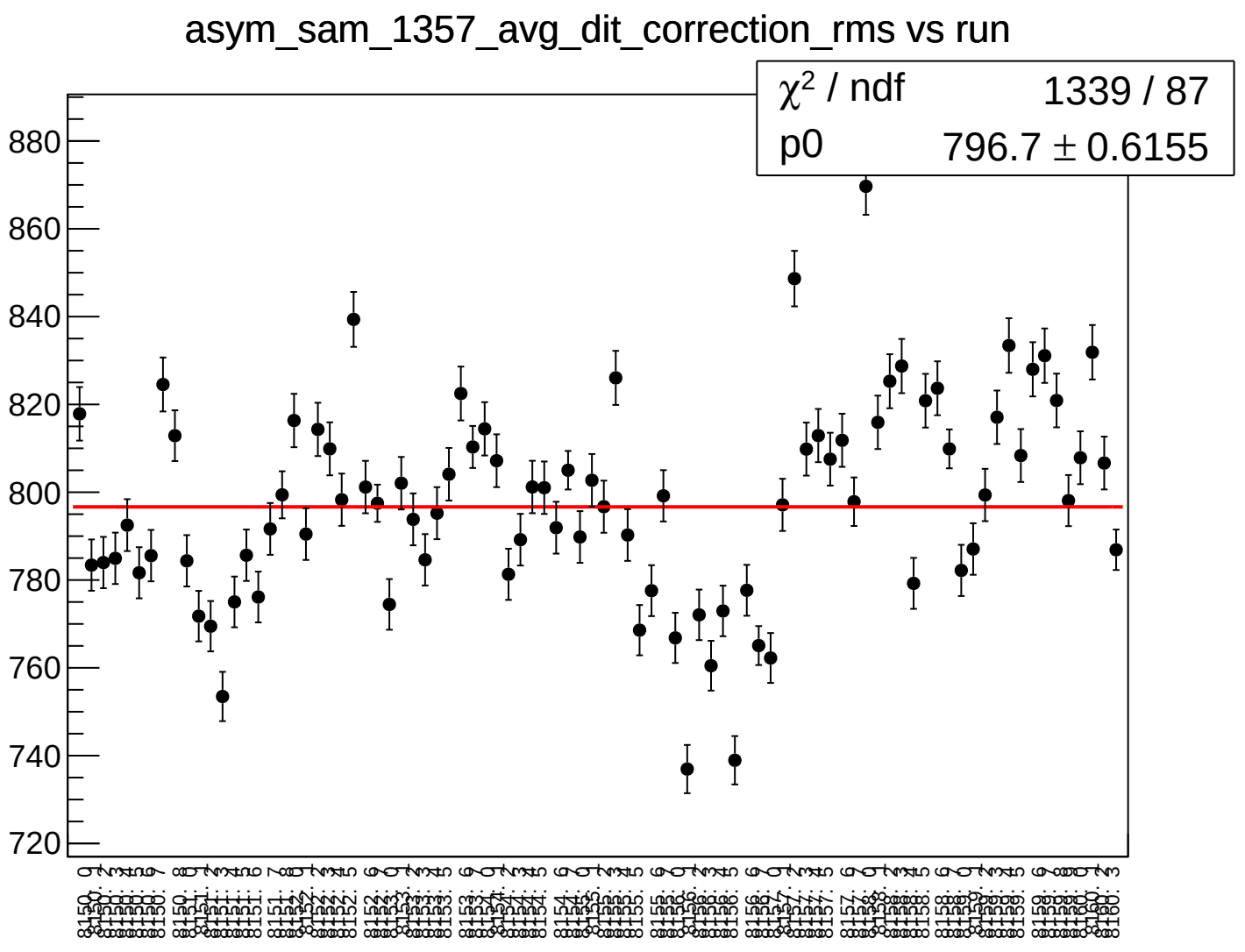

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1501 / 87
p0 807 ± 0.6236
880
860
840
820
800
780
760
740
720

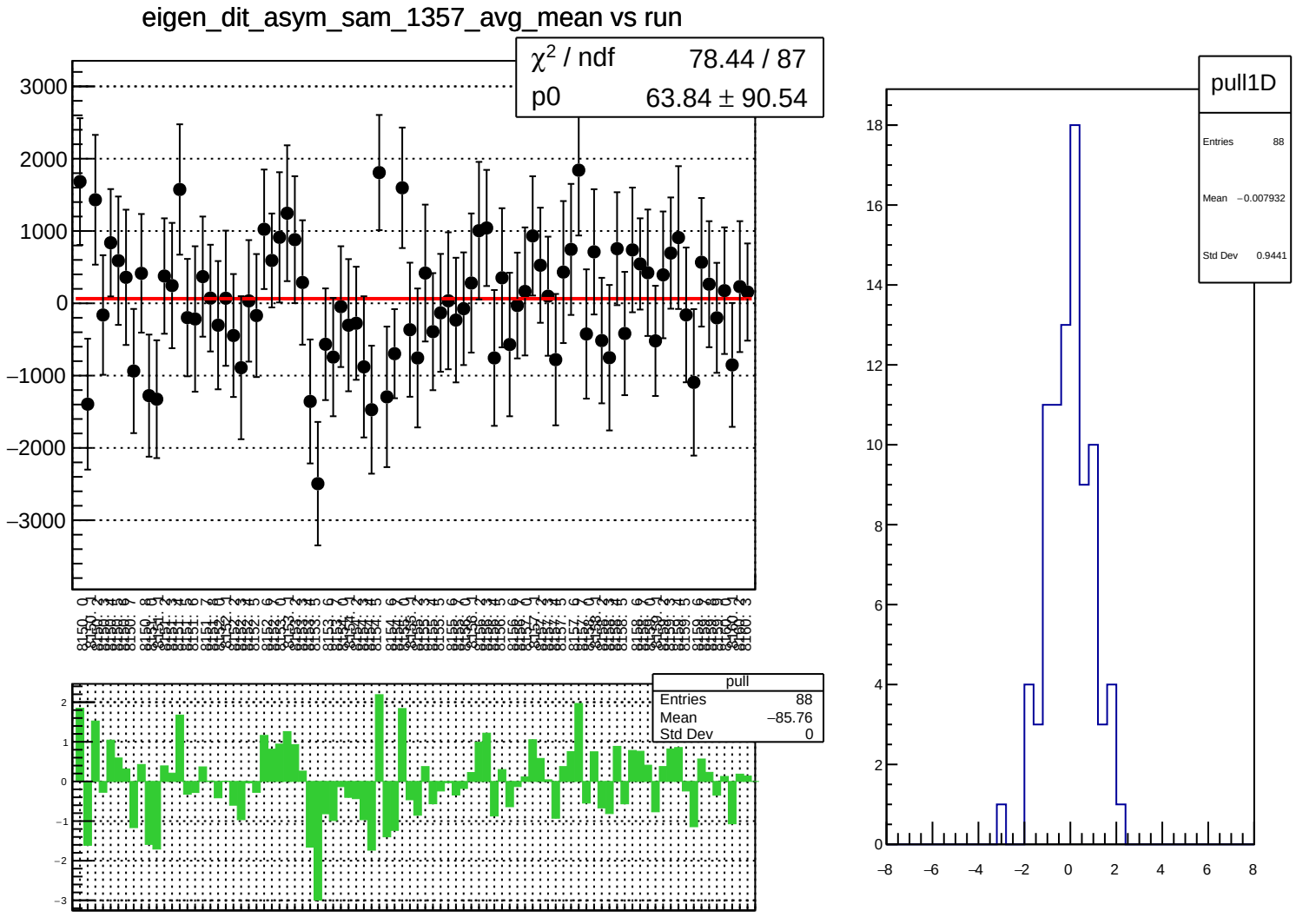

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 78.44 / 87
p0 63.84 ± 90.54
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −85.76
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.007932
Std Dev 0.9441
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_1357_avg_rms vs run
χ² / ndf 9206 / 87
p0 82.67 ± 0.06402
100
95
90
85
80
75
70


asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 98.35 / 87
p0 −1226 ± 870.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −697
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.003182
Std Dev 1.057
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 1339 / 87
p0 796.7 ± 0.6155
880
860
840
820
800
780
760
740
720


eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 78.44 / 87
p0 63.84 ± 90.54
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −85.76
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.007932
Std Dev 0.9441
18
16
14
12
10
8
6
4
2
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−8
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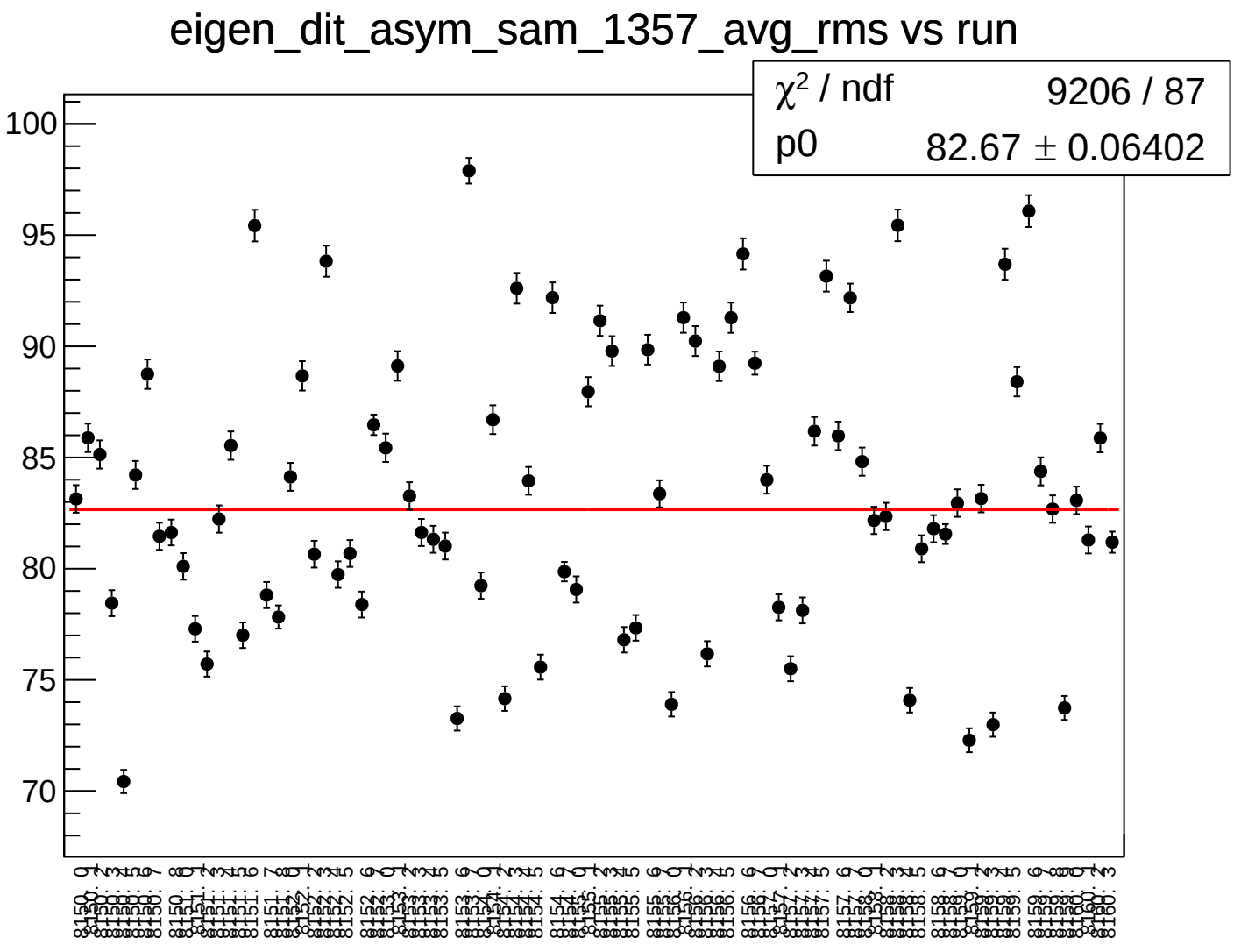
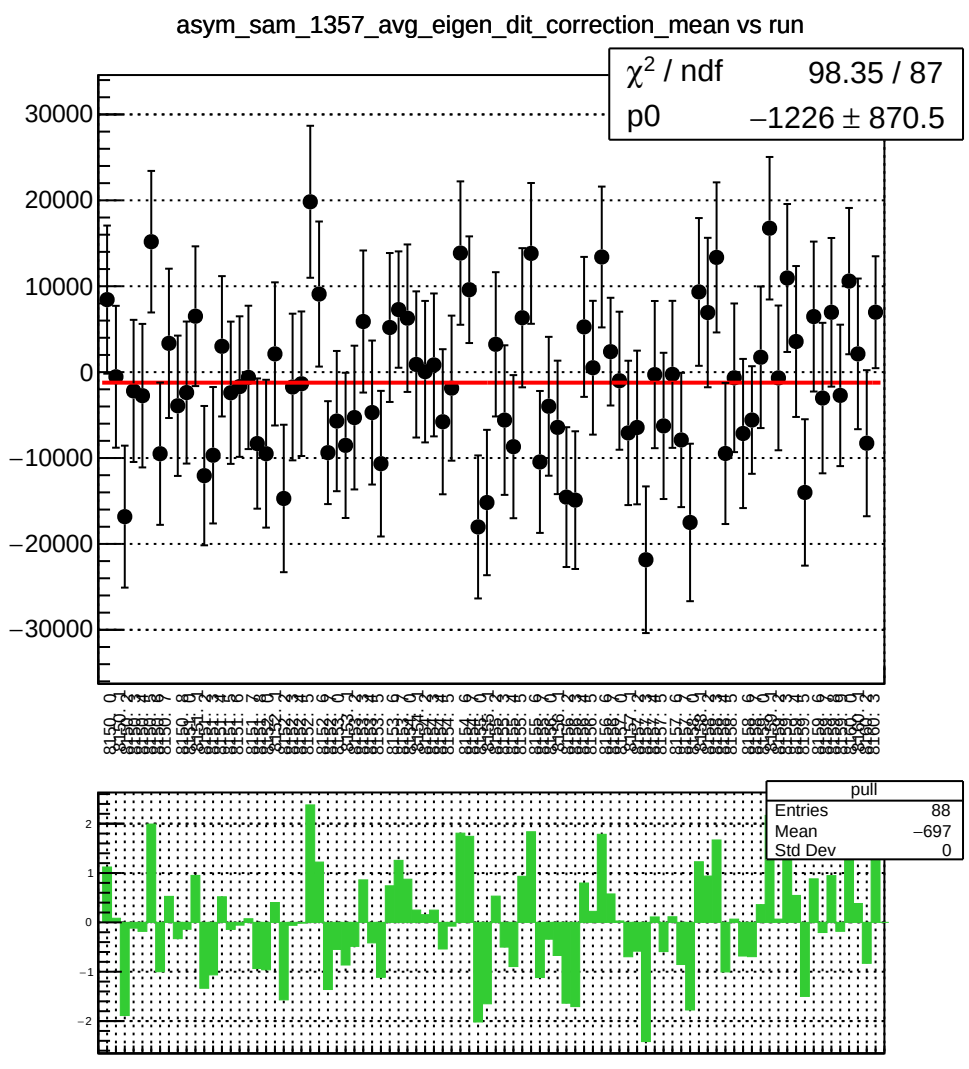
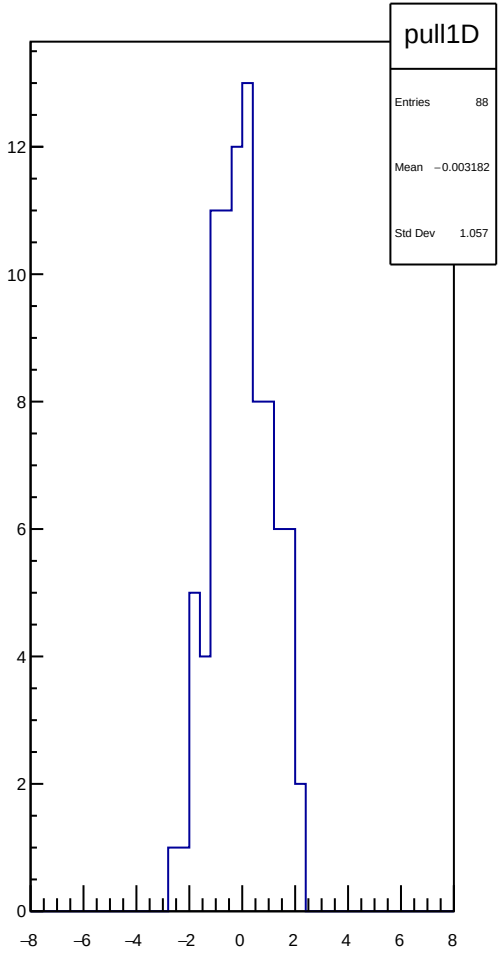
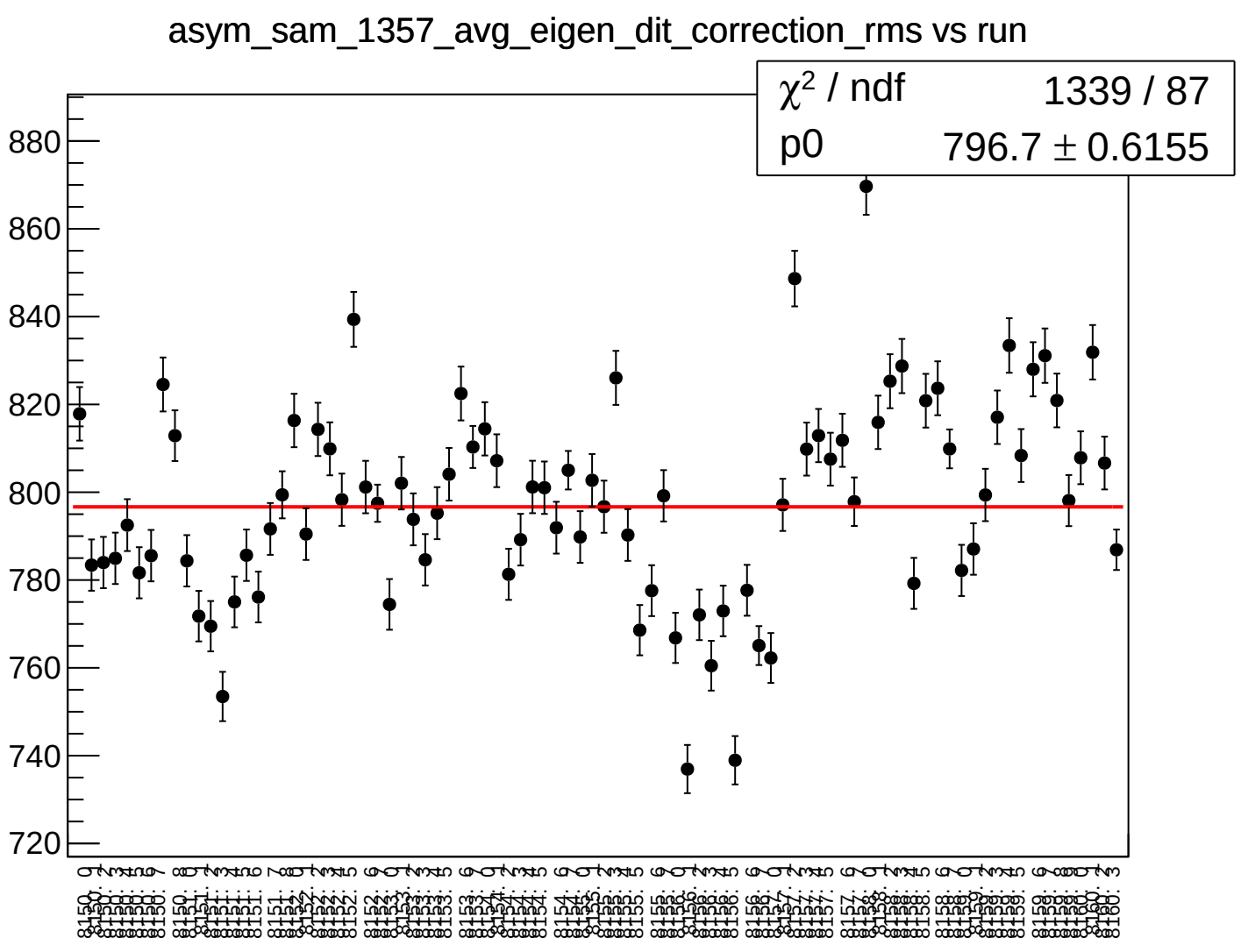
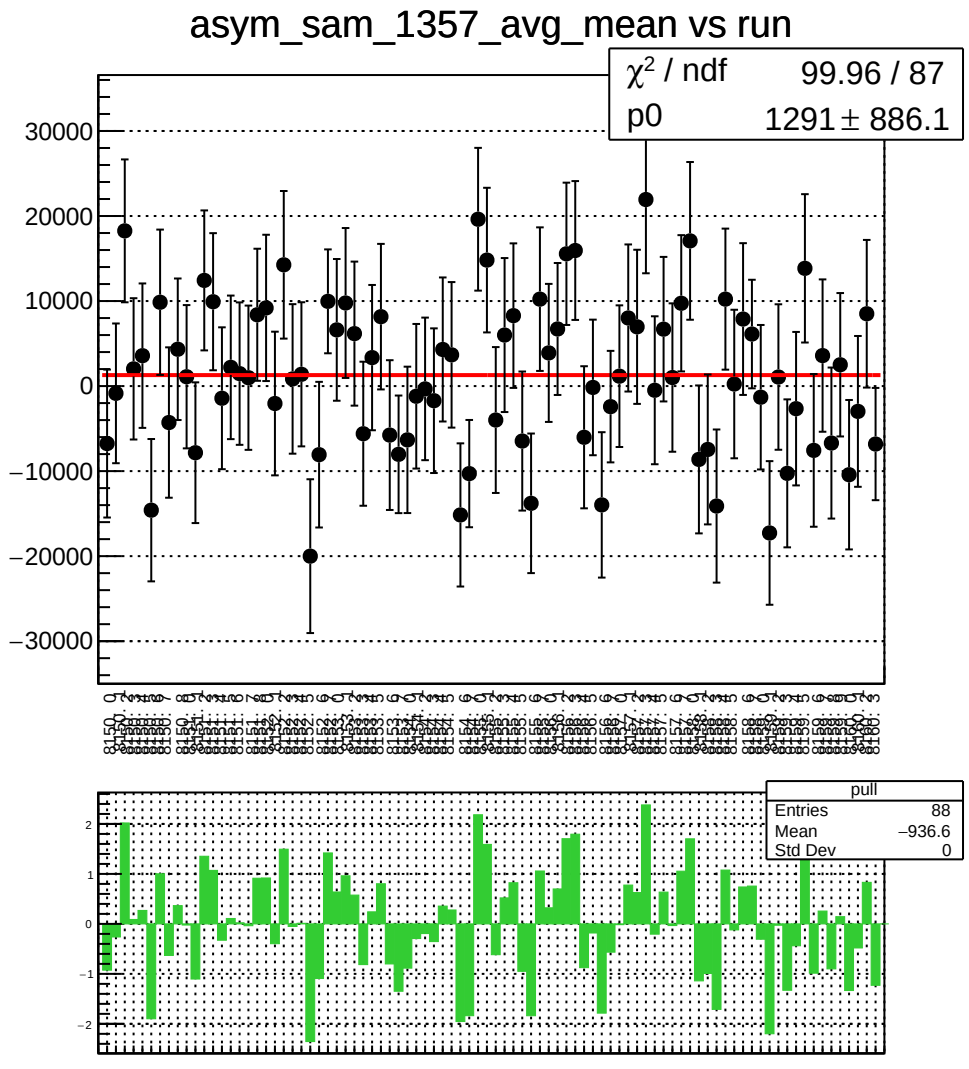
−4
−2
0
2
4
6
8

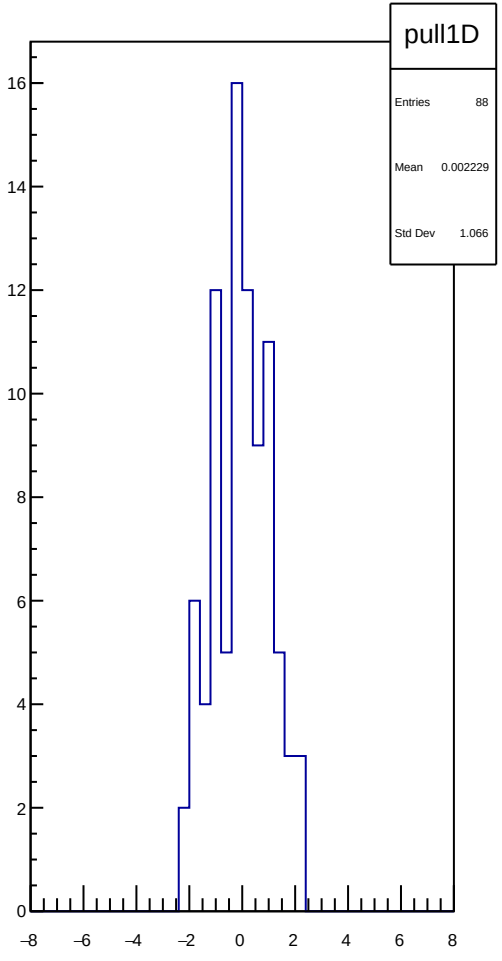

eigen_dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 9206 / 87
p0 82.67 ± 0.06402
100
95
90
85
80
75
70

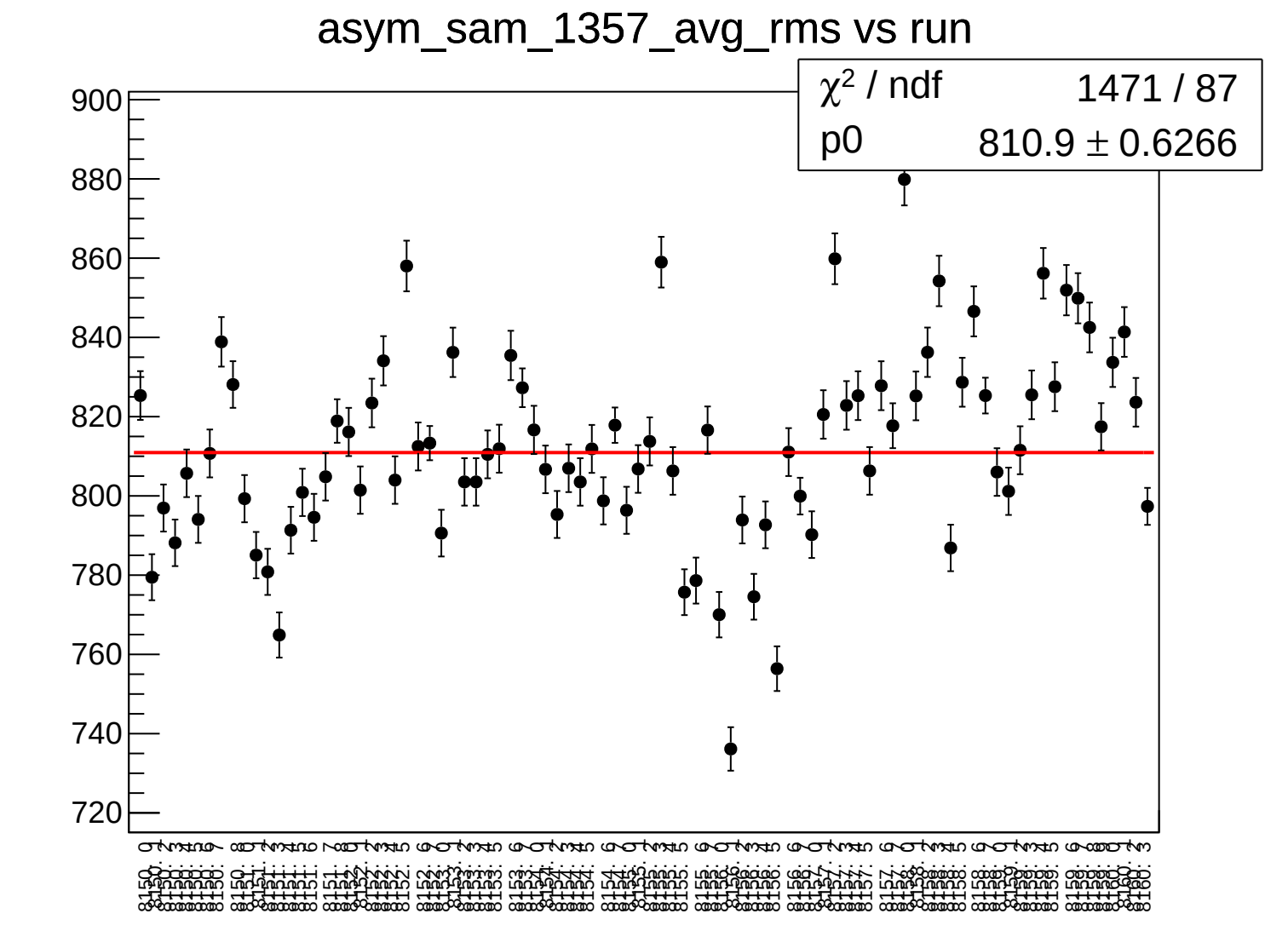

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.35 / 87
p0 −1226 ± 870.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −697
Std Dev 0
2
1
0
−1
−2

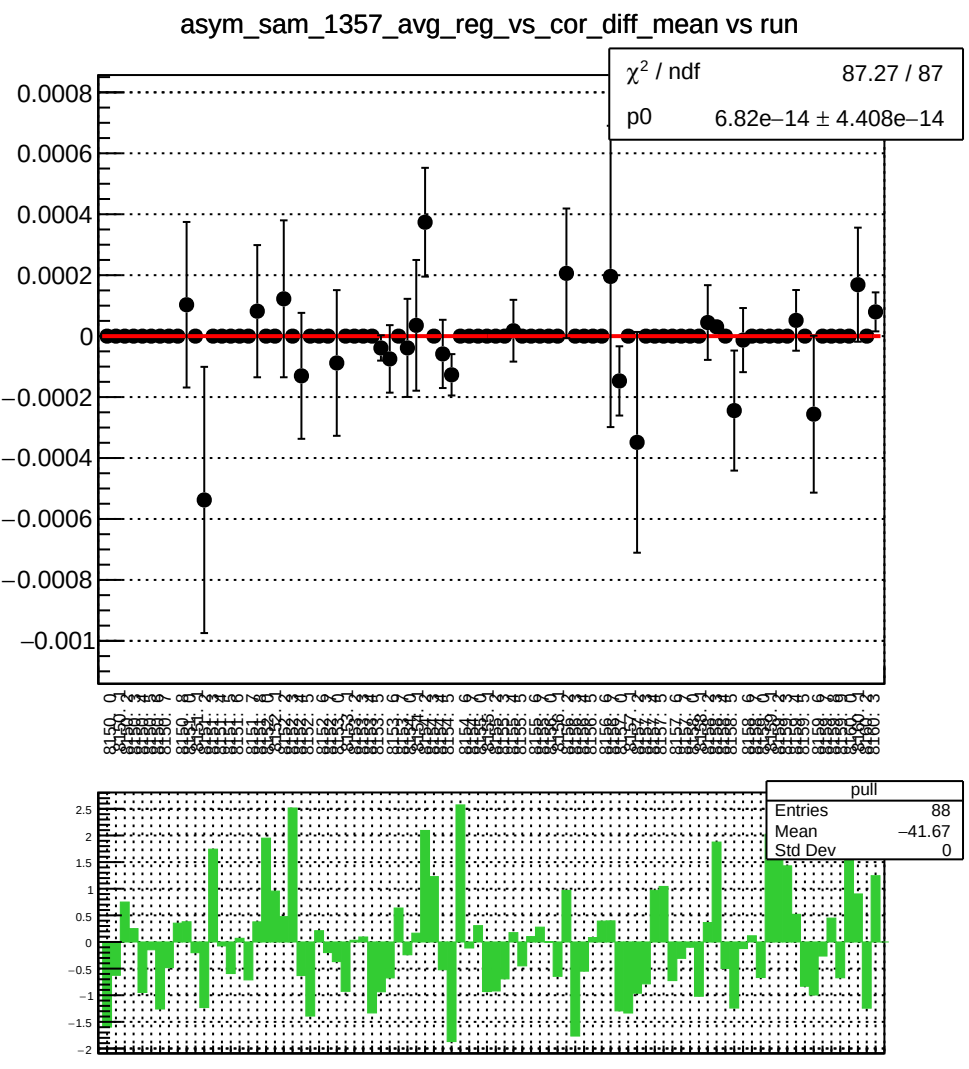

pull1D
Entries 88
Mean −0.003182
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

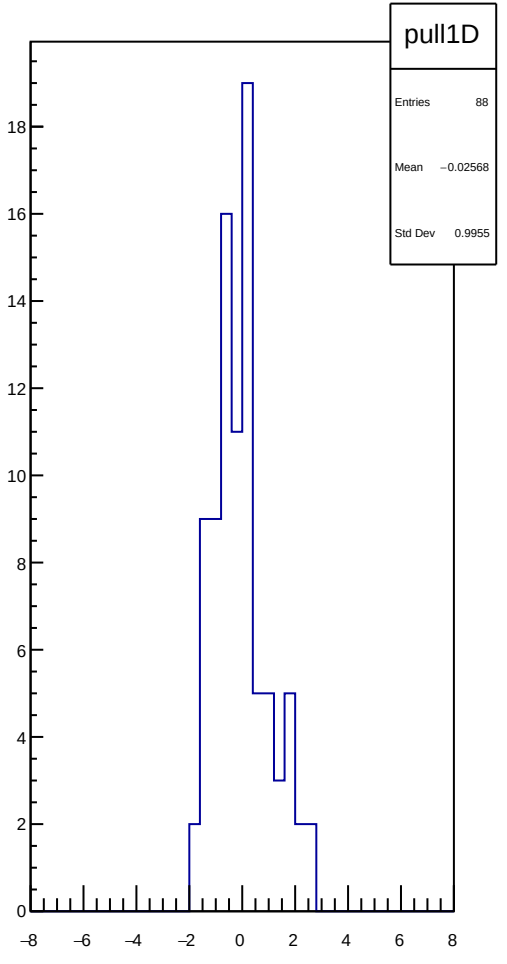

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 1339 / 87
p0 796.7 ± 0.6155
880
860
840
820
800
780
760
740
720

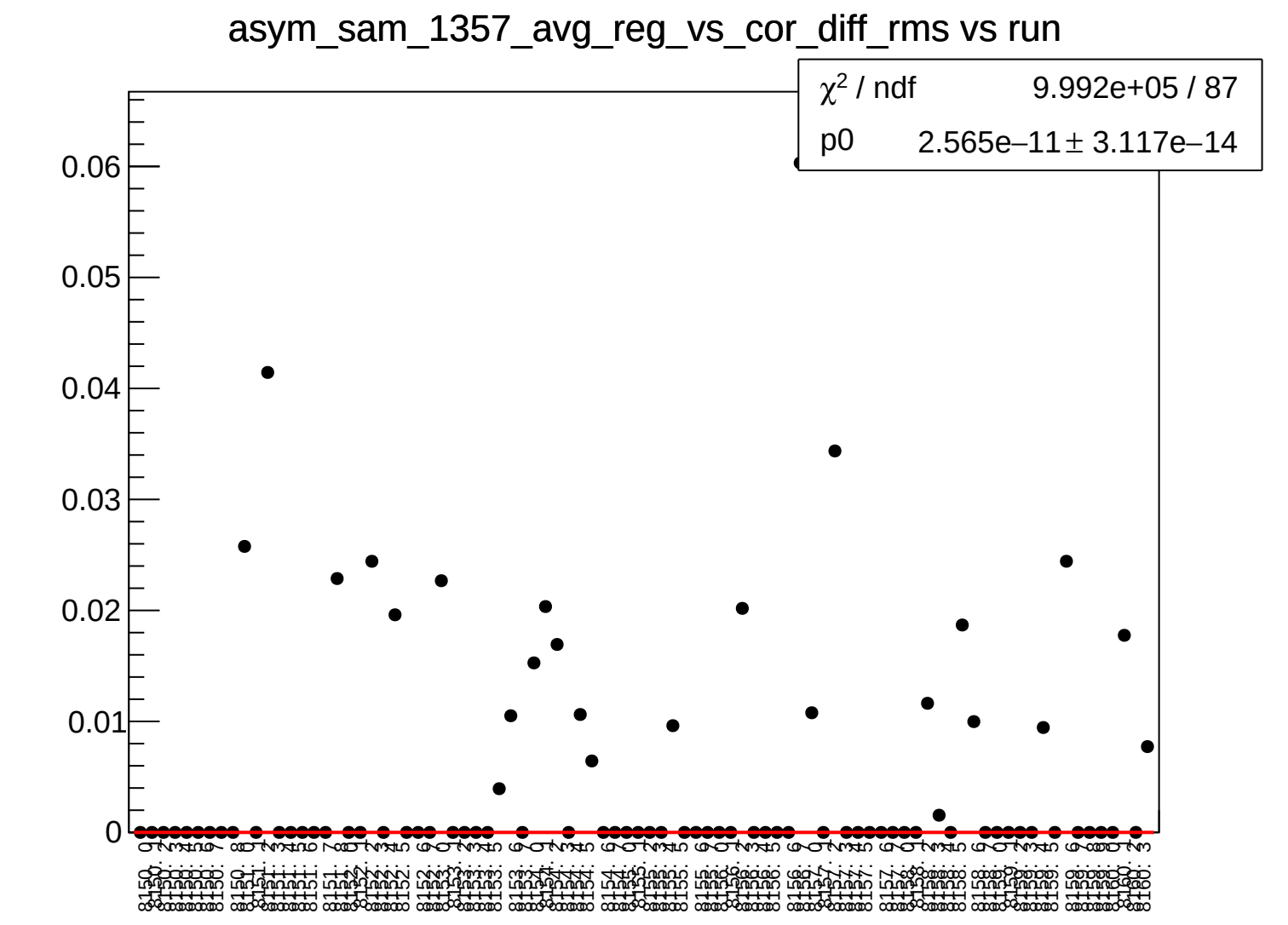

asym_sam_1357_avg_mean vs run
χ² / ndf 99.96 / 87
p0 1291 ± 886.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −936.6
Std Dev 0
2
1
0
−1
−2

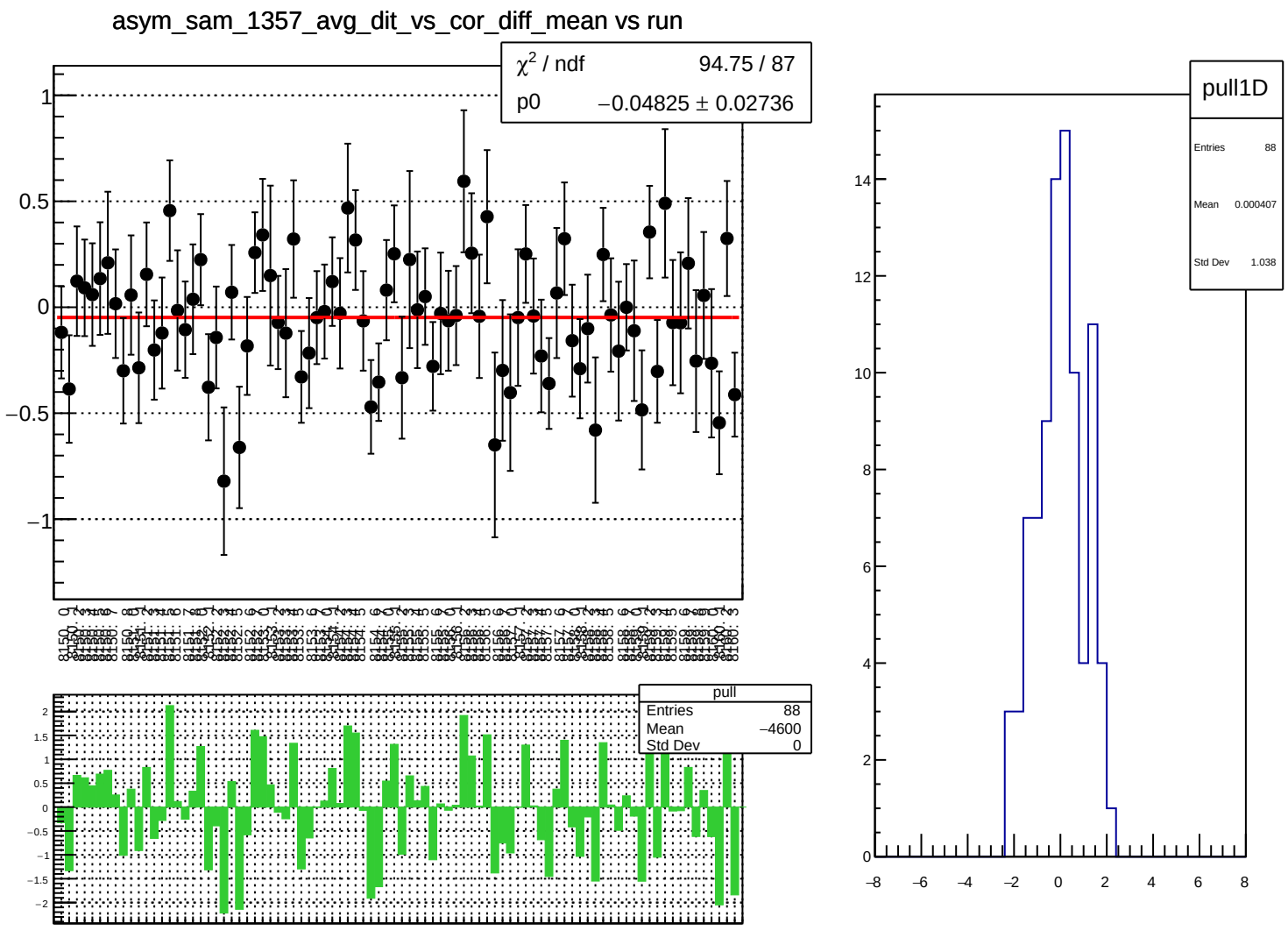

pull1D
Entries 88
Mean 0.002229
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

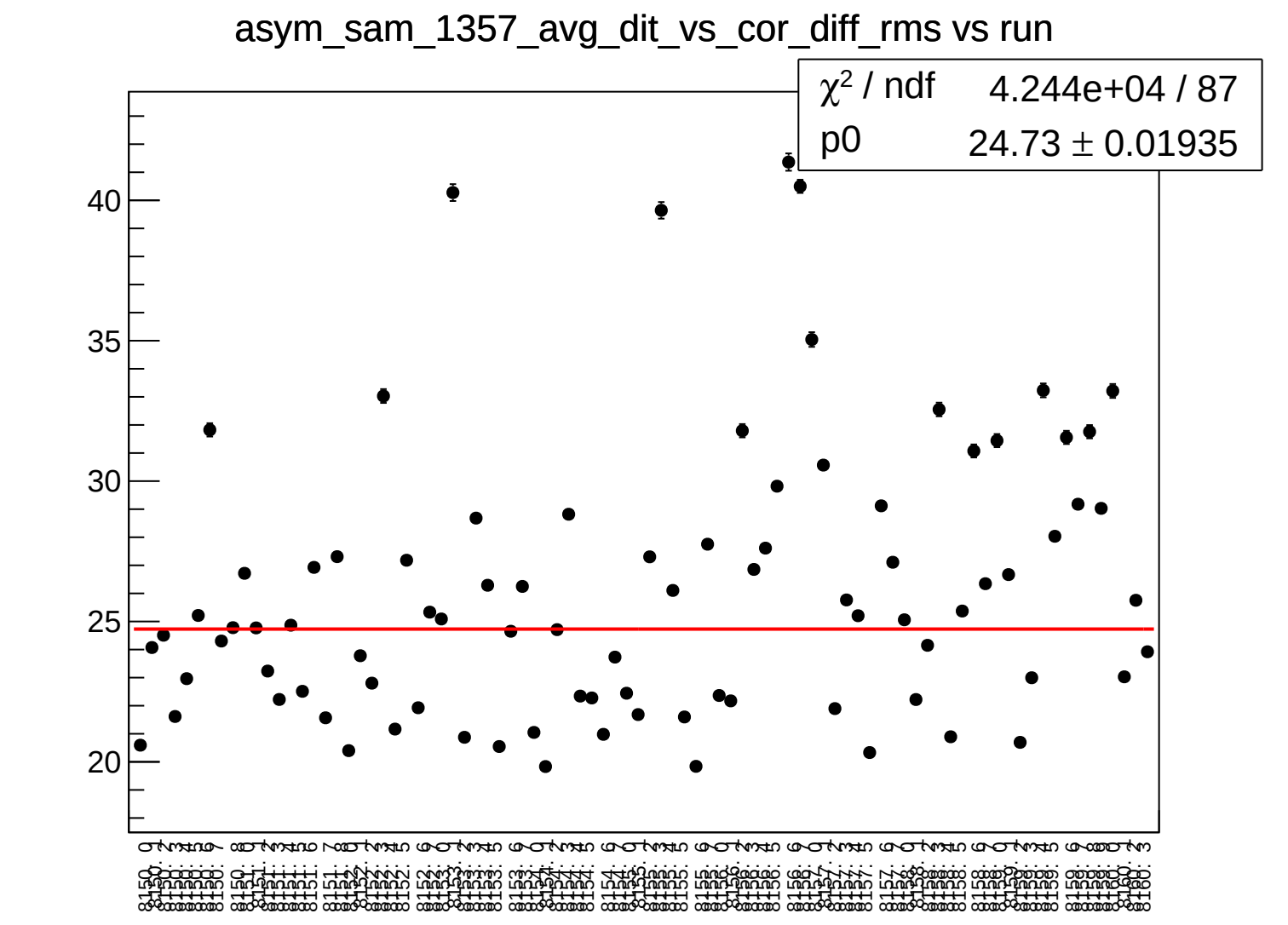

asym_sam_1357_avg_rms vs run
χ² / ndf 1471 / 87
p0 810.9 ± 0.6266
900
880
860
840
820
800
780
760
740
720

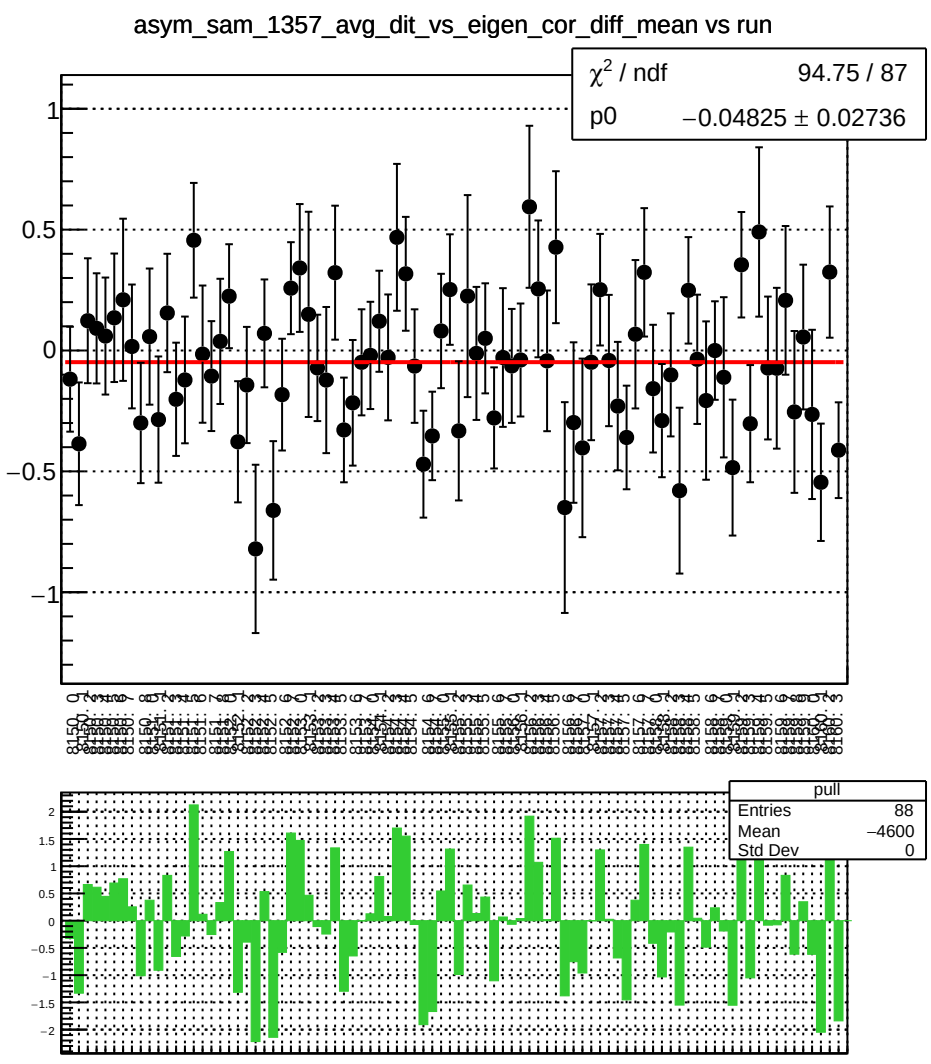

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.27 / 87
p0 6.82e−14 ± 4.408e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 88
Mean −41.67
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

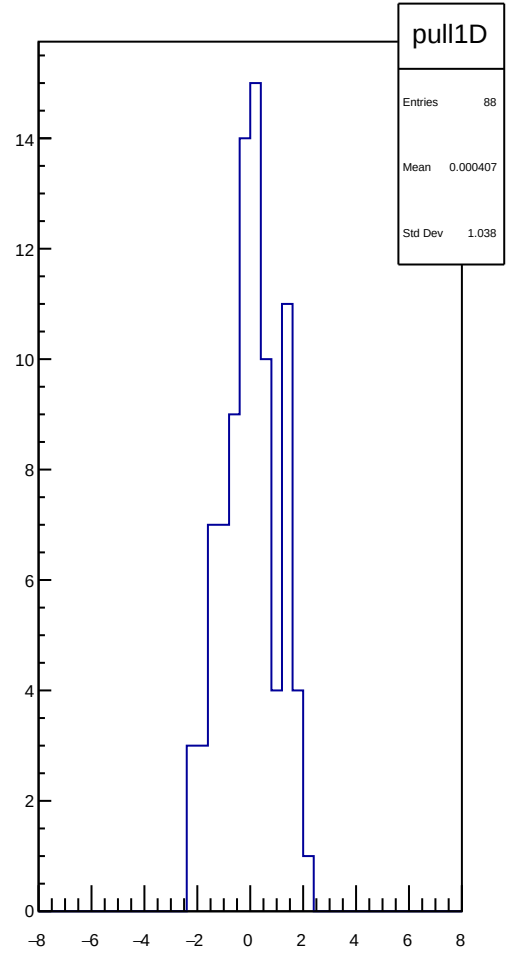

pull1D
Entries 88
Mean −0.02568
Std Dev 0.9955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

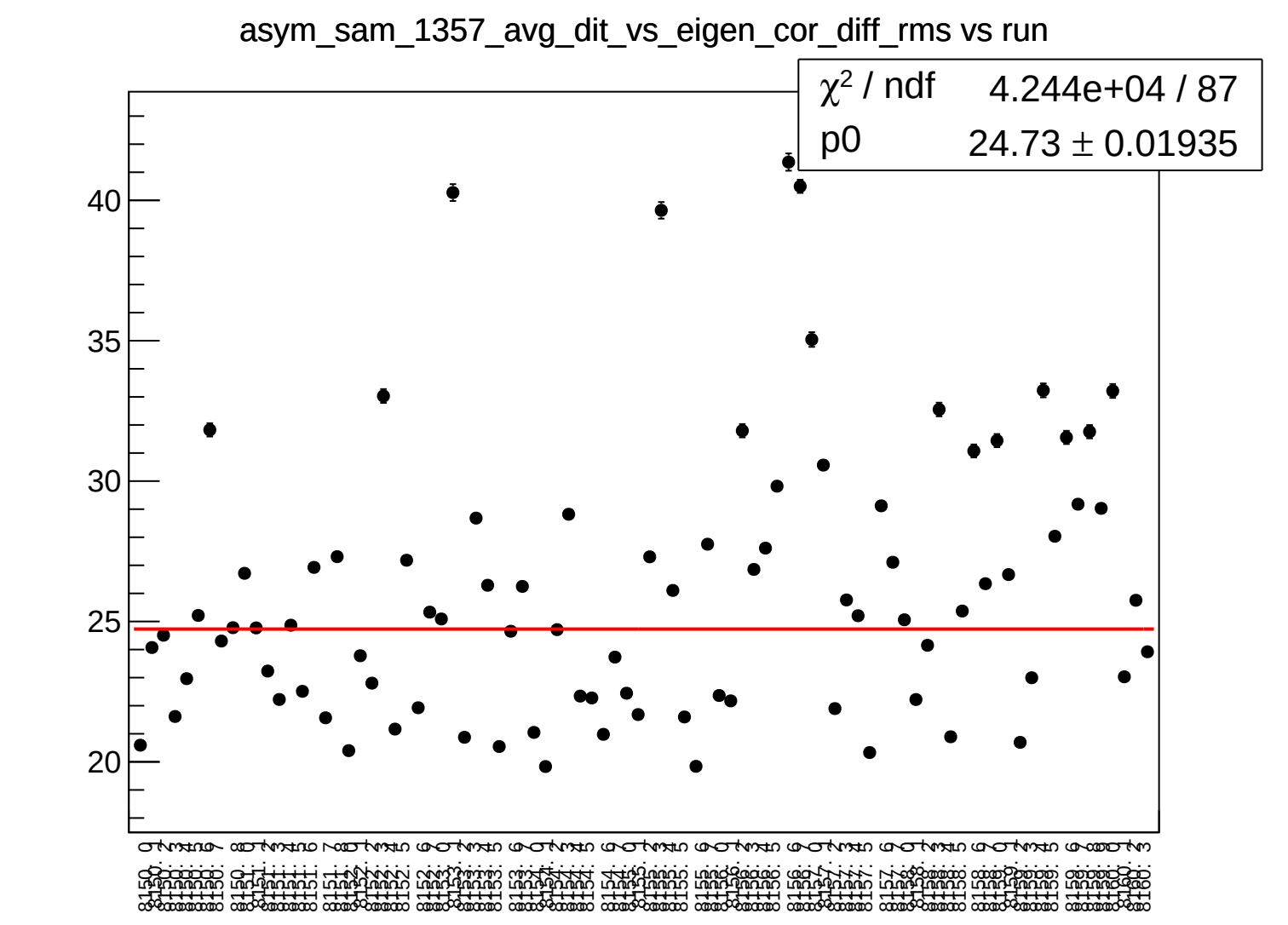

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.992e+05 / 87
p0 2.565e−11 ± 3.117e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

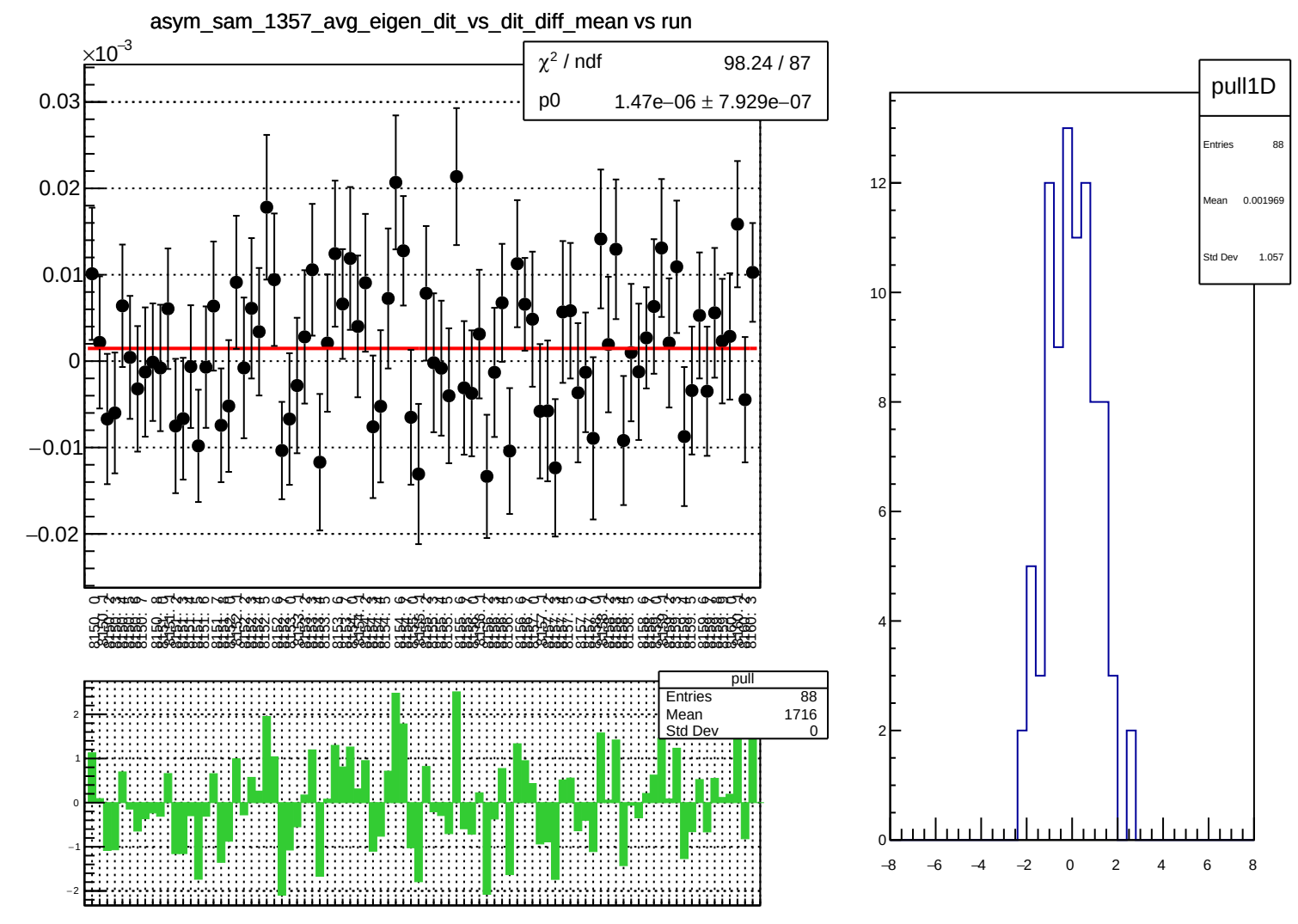

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.75 / 87
p0 −0.04825 ± 0.02736
pull
Entries 88
Mean −4600
Std Dev 0
pull1D
Entries 88
Mean 0.000407
Std Dev 1.038

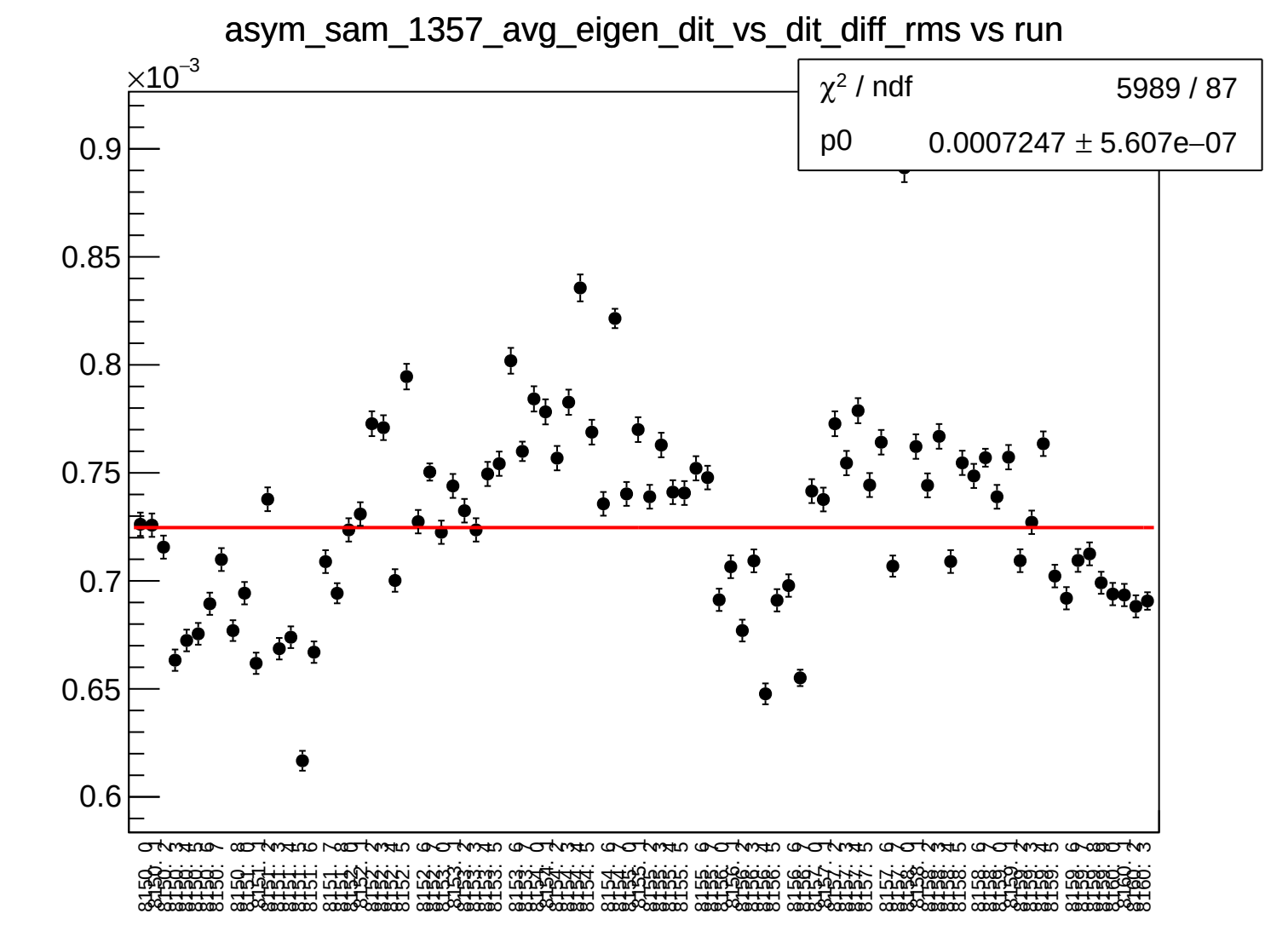

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.244e+04 / 87
p0 24.73 ± 0.01935
40
35
30
25
20

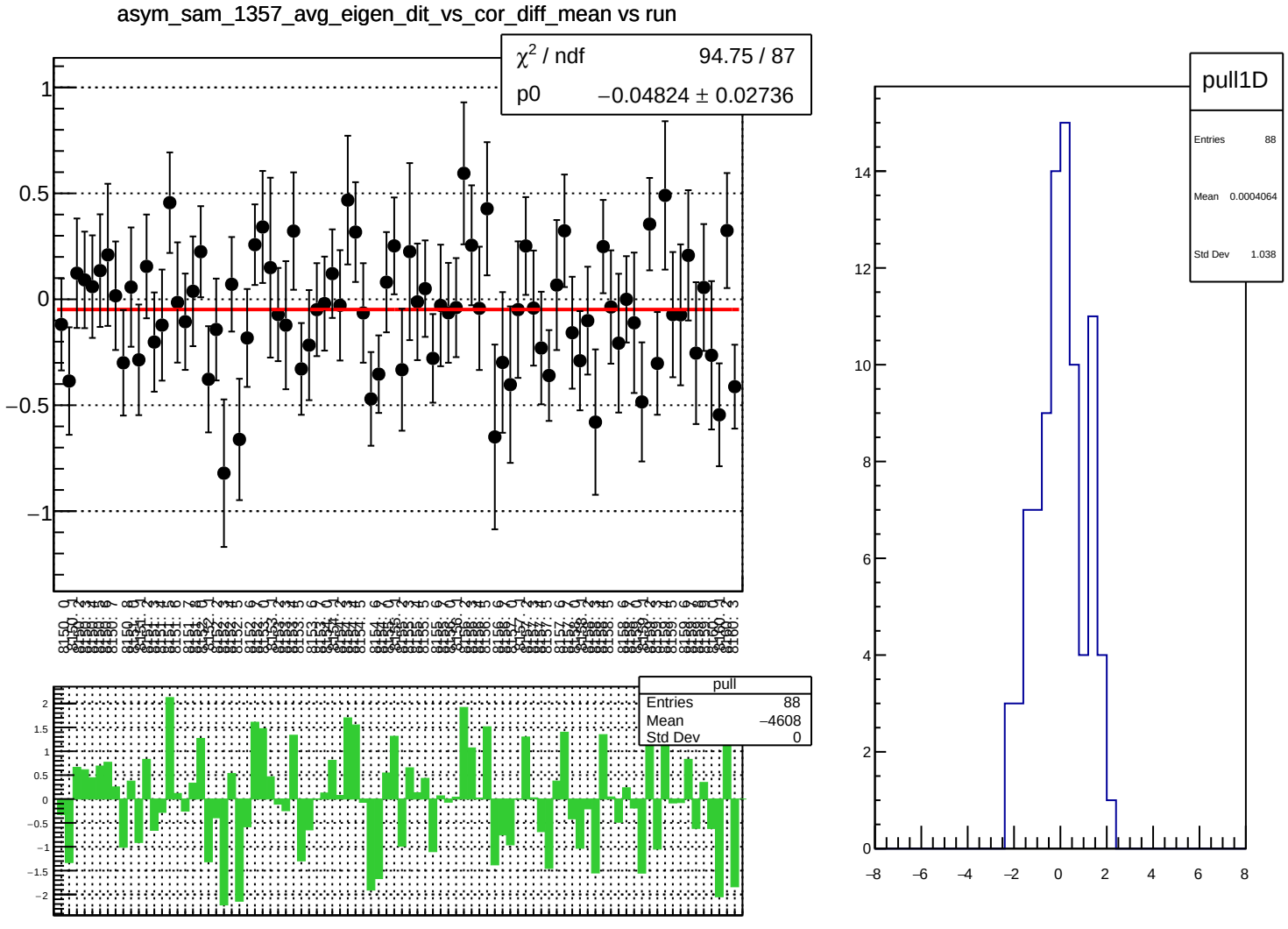

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.75 / 87
p0 −0.04825 ± 0.02736
pull
Entries 88
Mean −4600
Std Dev 0

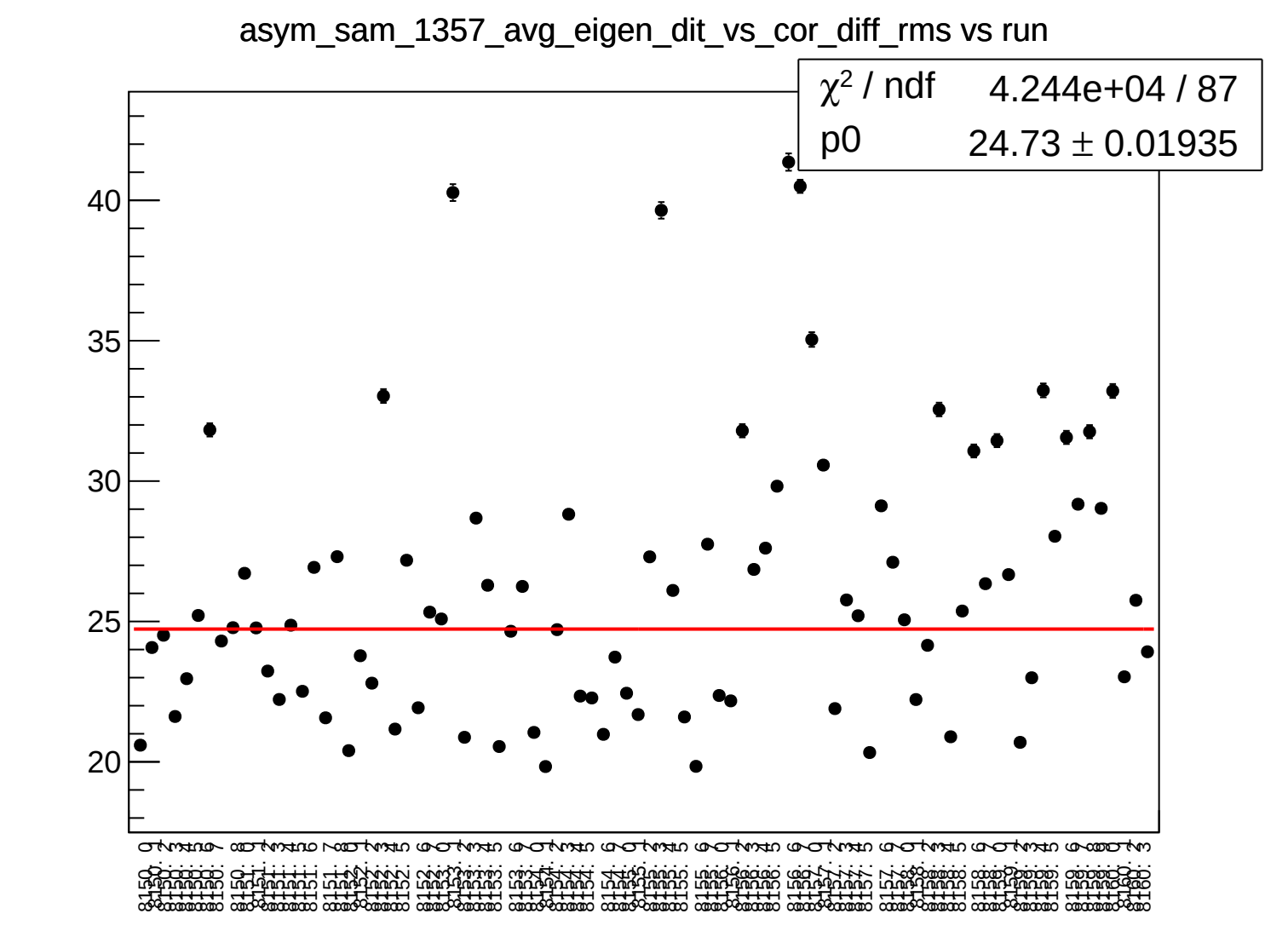

pull1D
Entries 88
Mean 0.000407
Std Dev 1.038

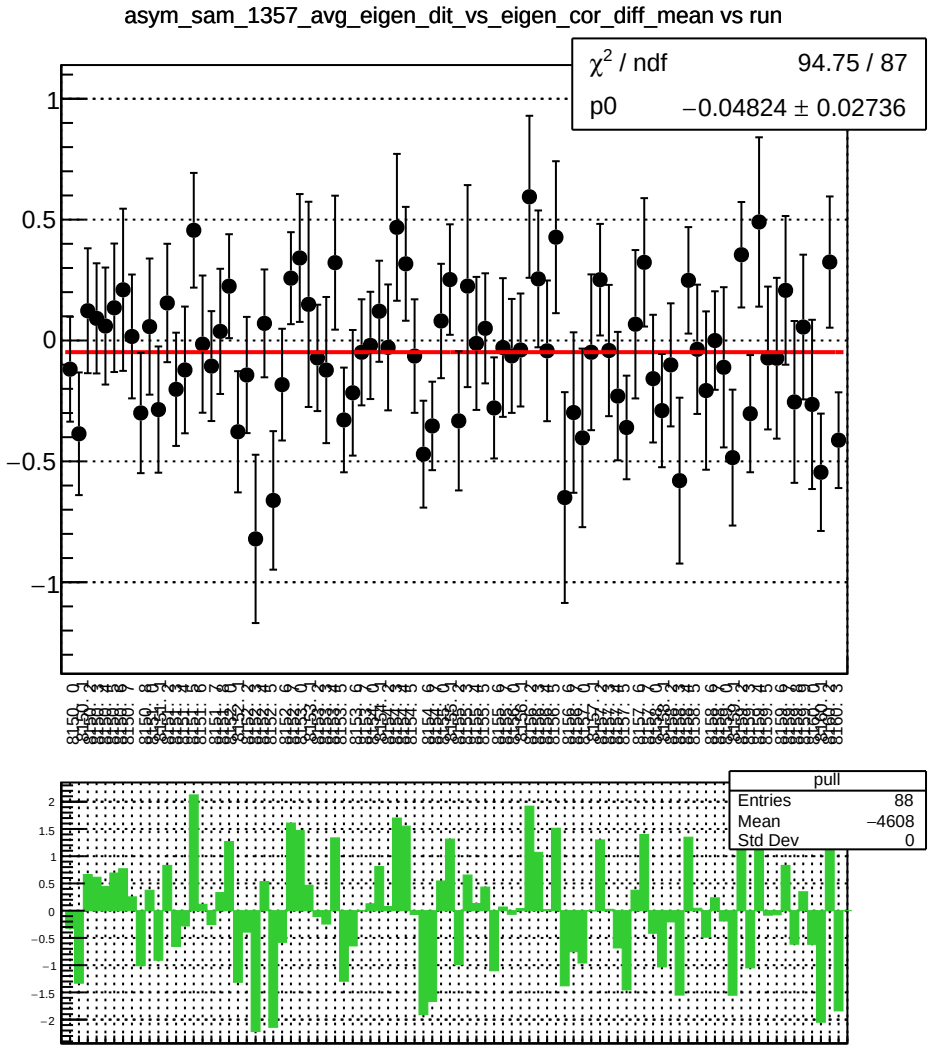

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.244e+04 / 87
p0 24.73 ± 0.01935
40
35
30
25
20

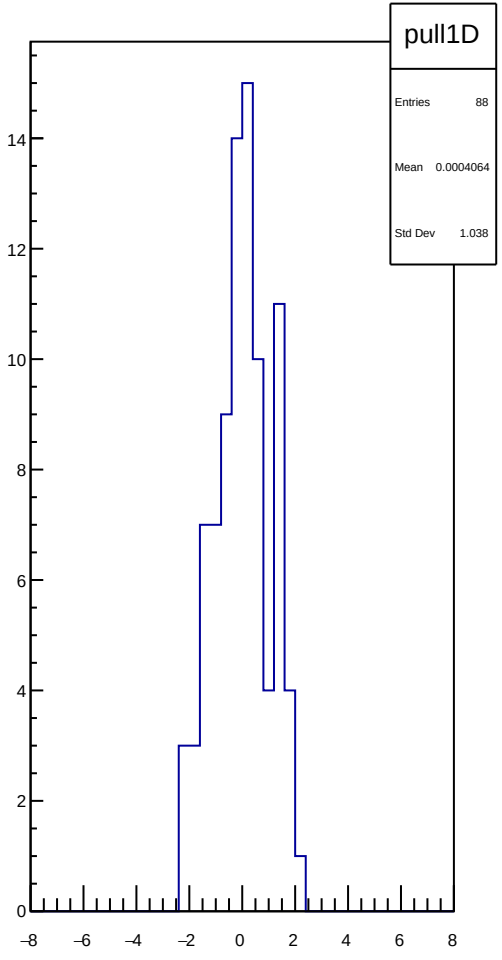

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.24 / 87
p0 1.47e−06 ± 7.929e−07
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 1716
Std Dev 0
pull1D
Entries 88
Mean 0.001969
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

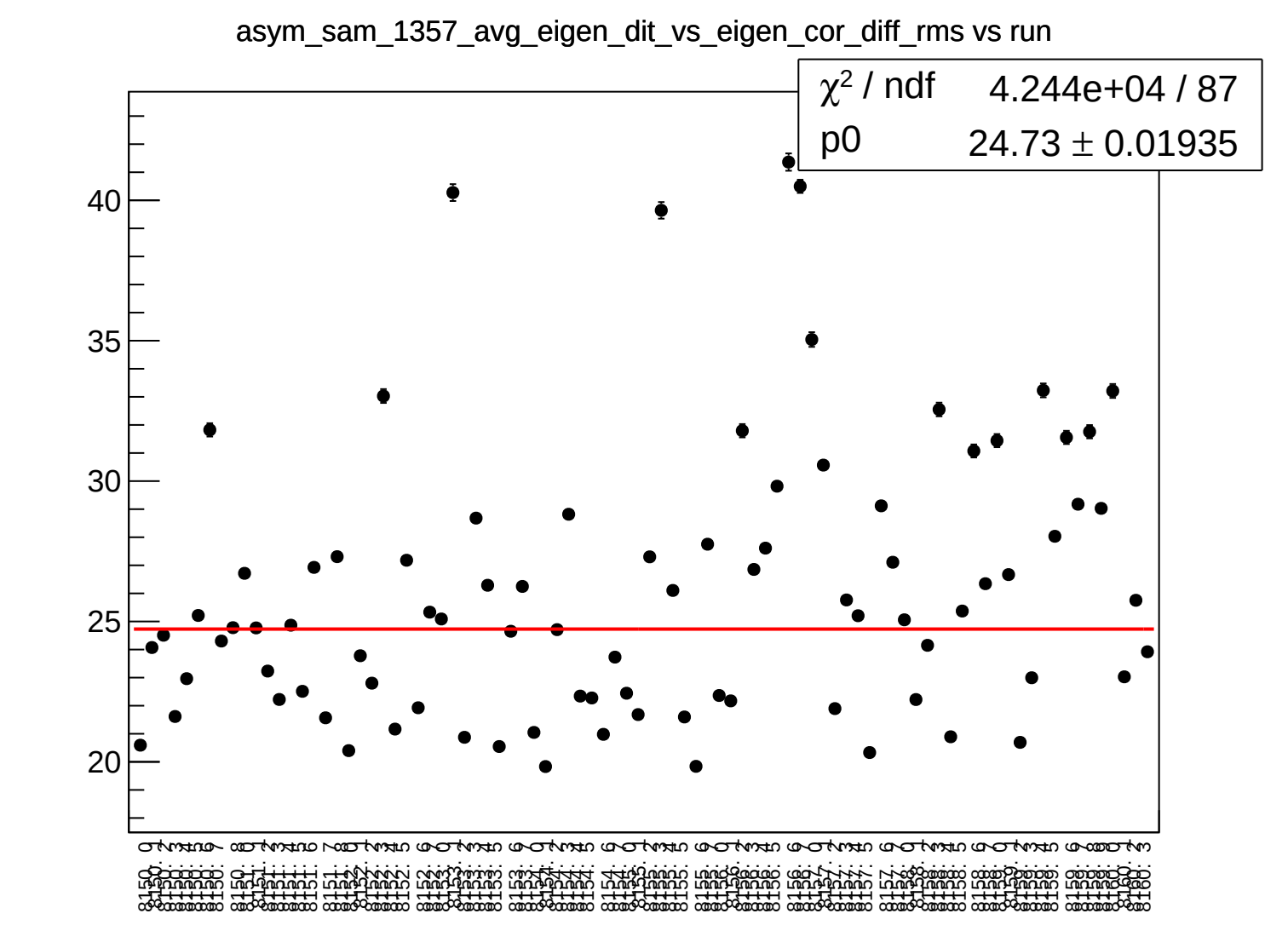

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 5989 / 87
p0 0.0007247 ± 5.607e−07
0.9
0.85
0.8
0.75
0.7
0.65
0.6

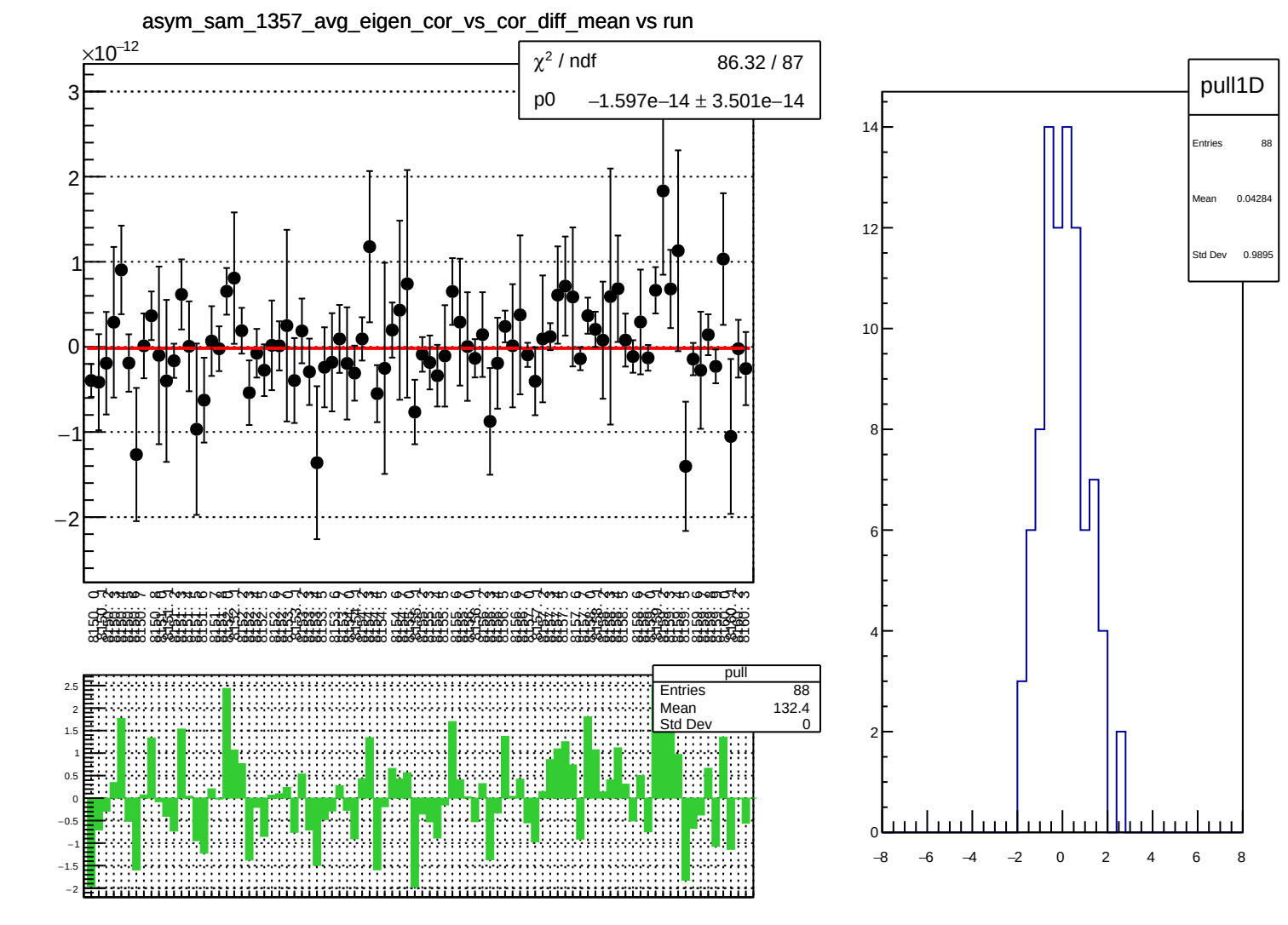

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.75 / 87
p0 −0.04824 ± 0.02736
pull
Entries 88
Mean −4608
Std Dev 0
pull1D
Entries 88
Mean 0.0004064
Std Dev 1.038

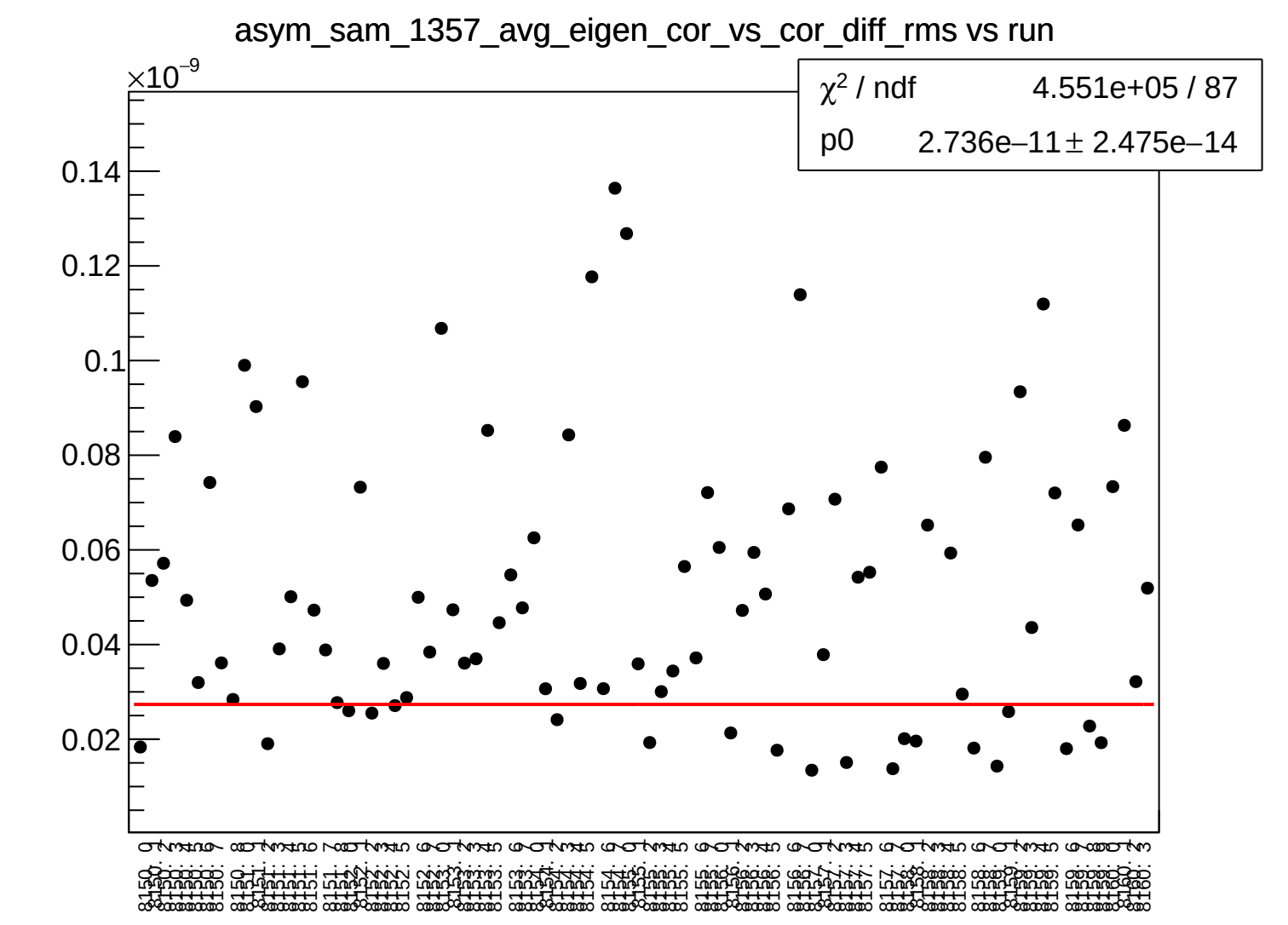

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.244e+04 / 87
p0 24.73 ± 0.01935
40
35
30
25
20

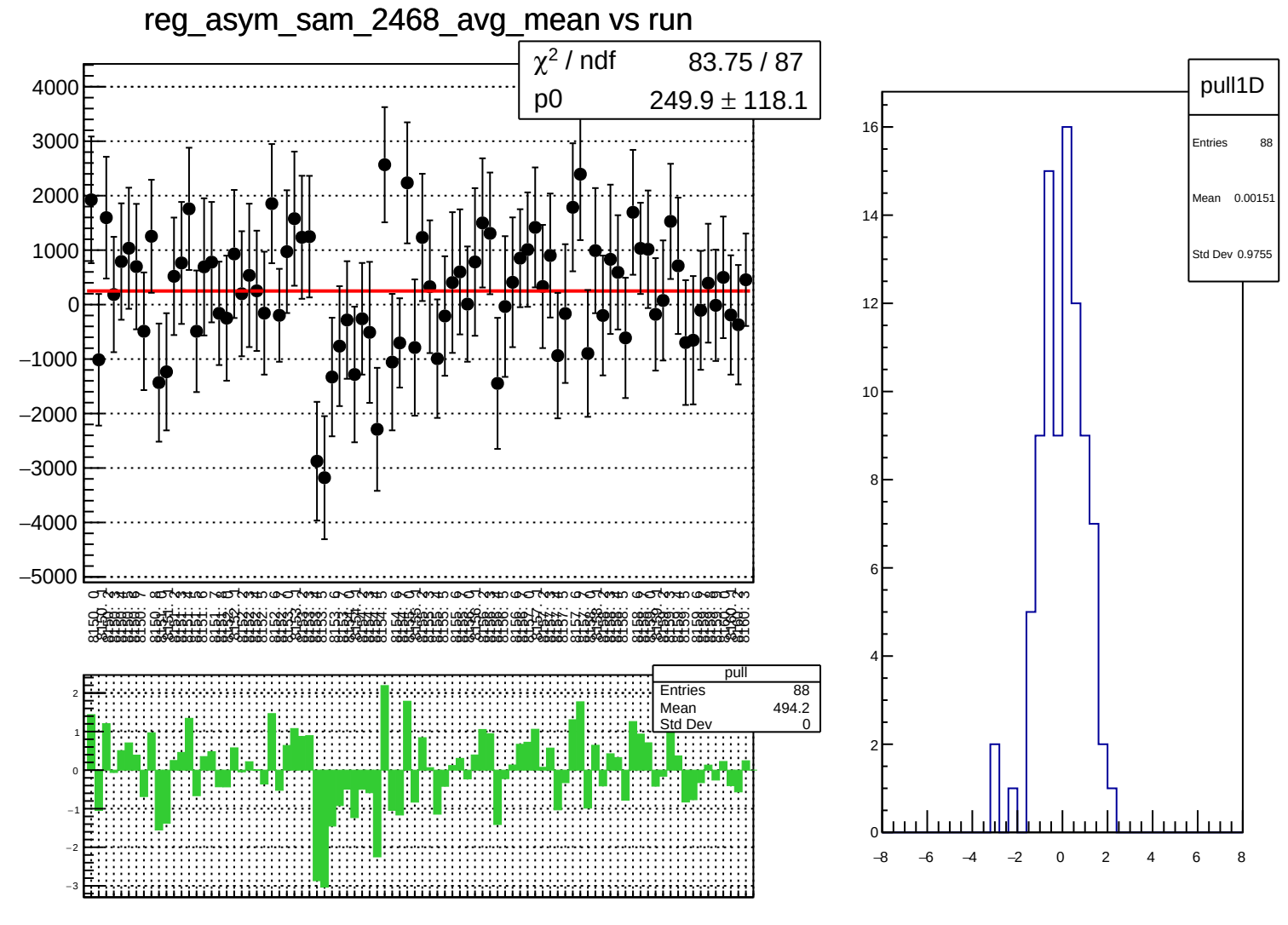

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.75 / 87
p0 −0.04824 ± 0.02736
pull
Entries 88
Mean −4608
Std Dev 0

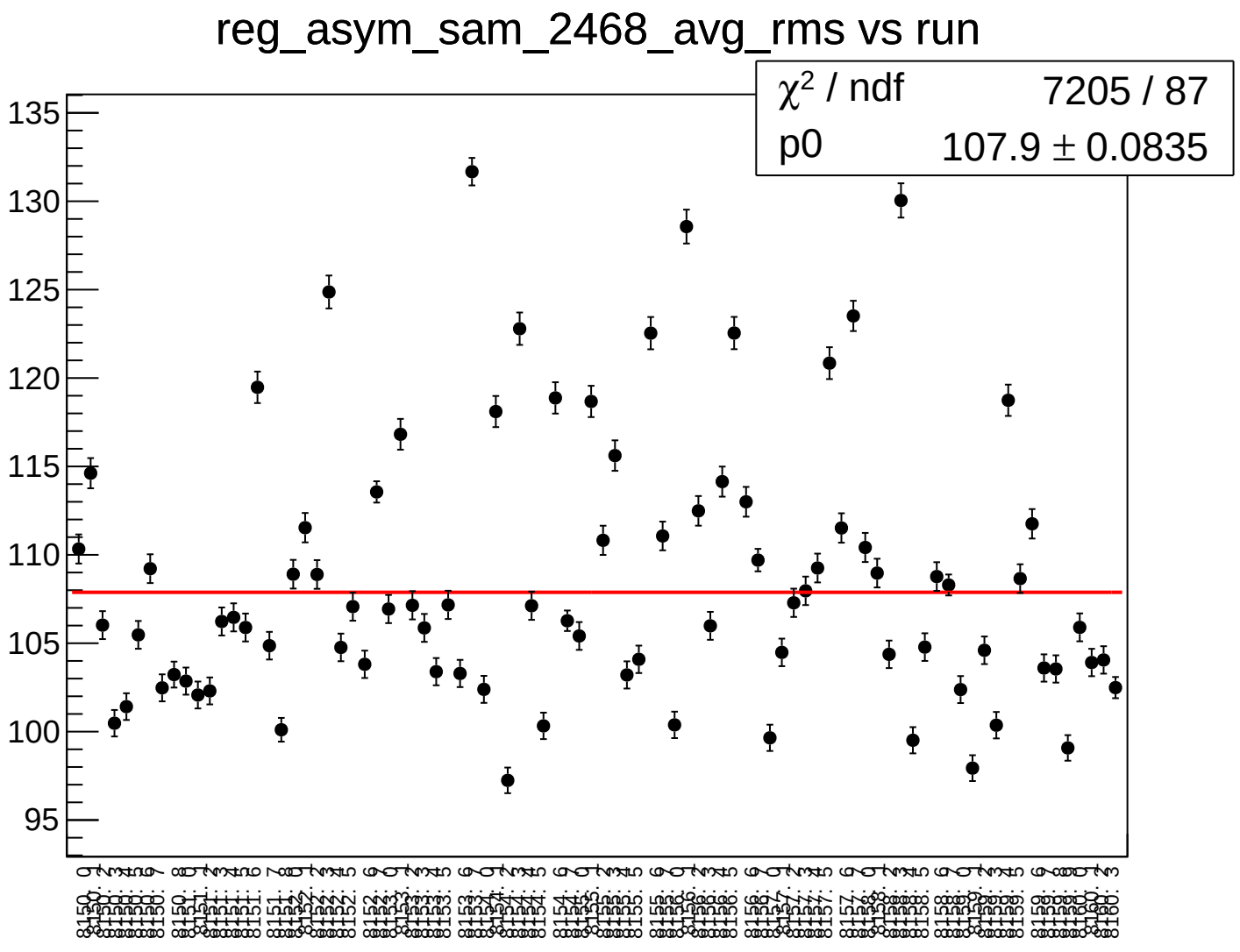

pull1D
Entries 88
Mean 0.0004064
Std Dev 1.038

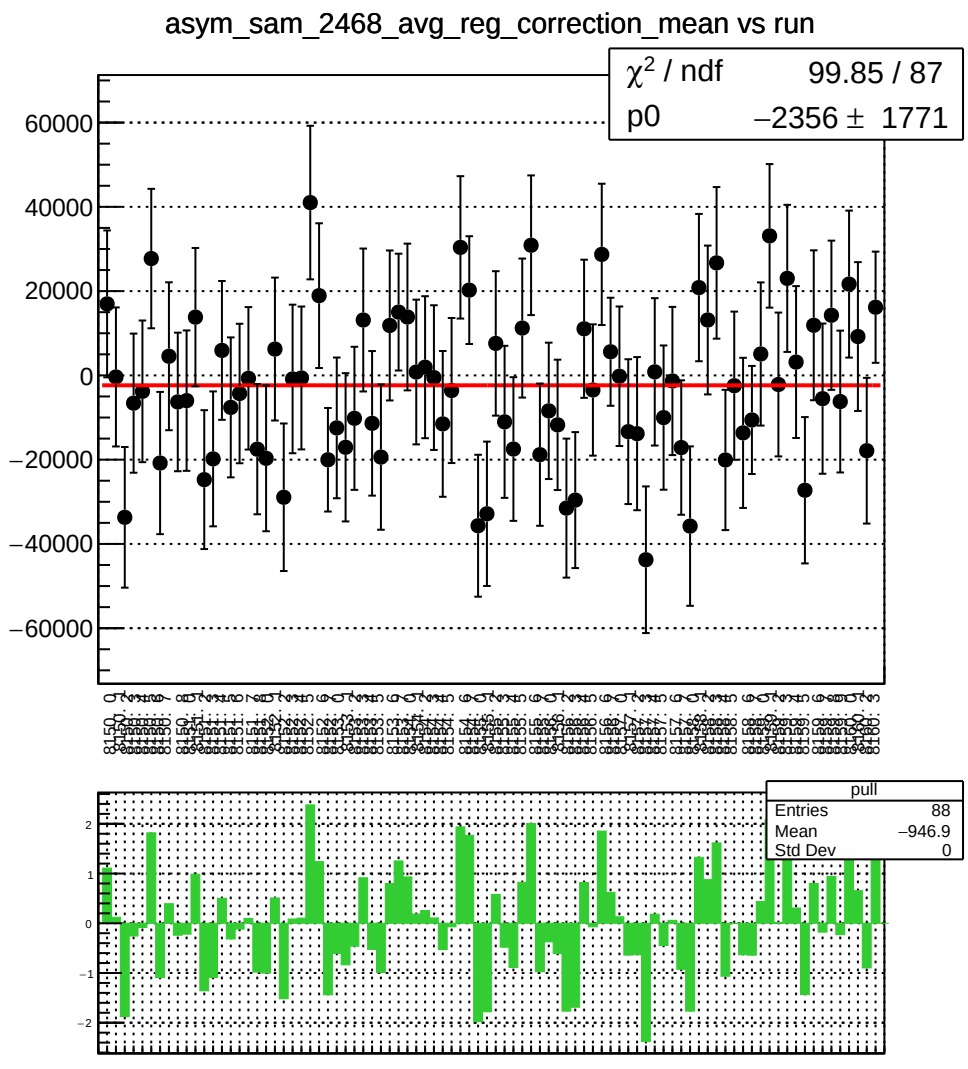

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.244e+04 / 87
p0 24.73 ± 0.01935
40
35
30
25
20

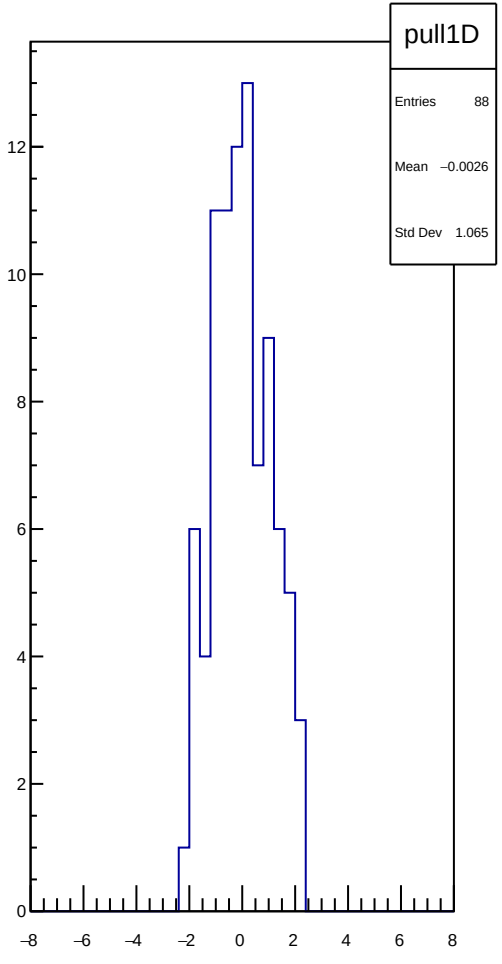

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 86.32 / 87
p0 −1.597e−14 ± 3.501e−14
pull
Entries 88
Mean 132.4
Std Dev 0
pull1D
Entries 88
Mean 0.04284
Std Dev 0.9895

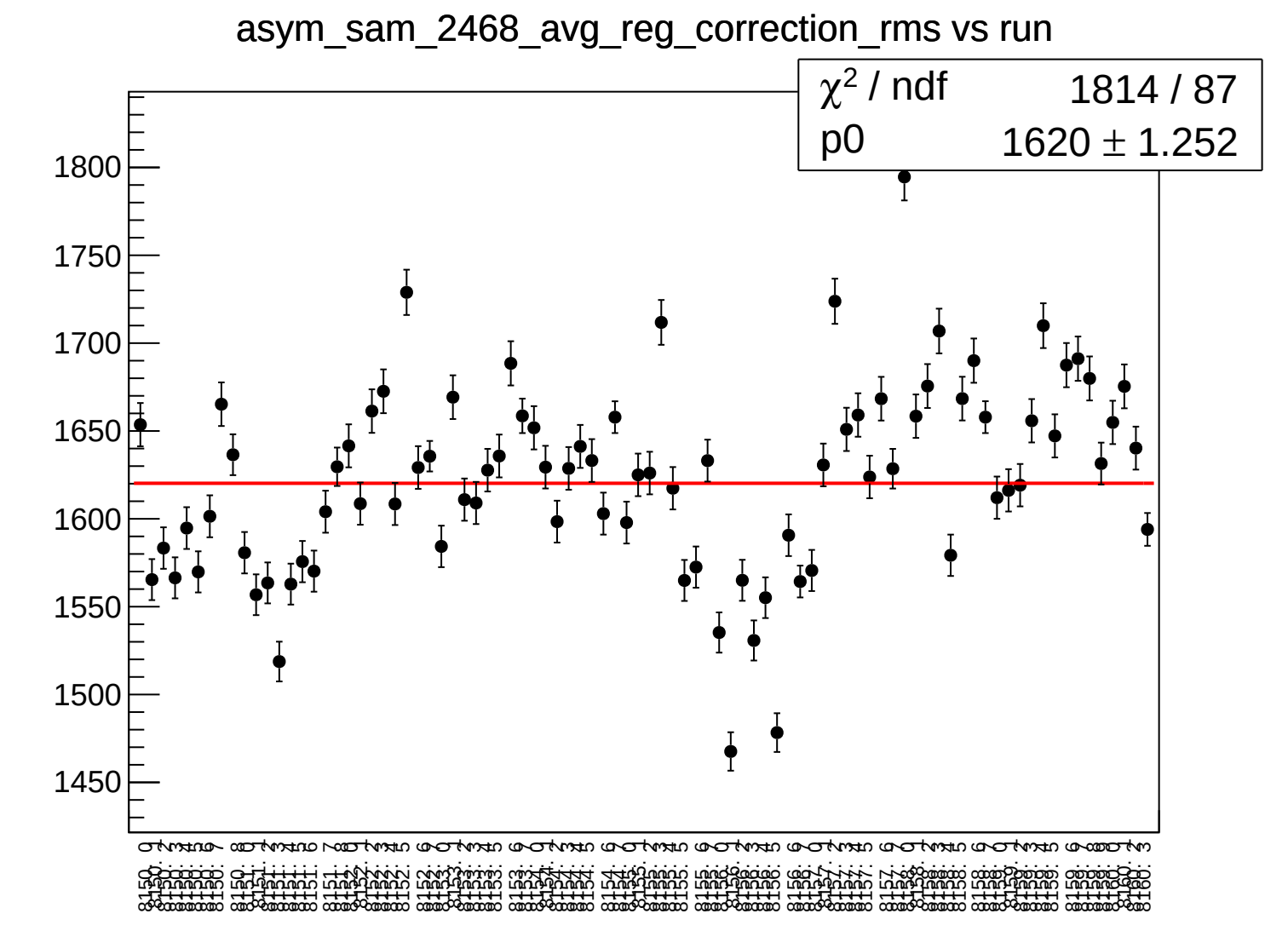

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.551e+05 / 87
p0 2.736e−11 ± 2.475e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

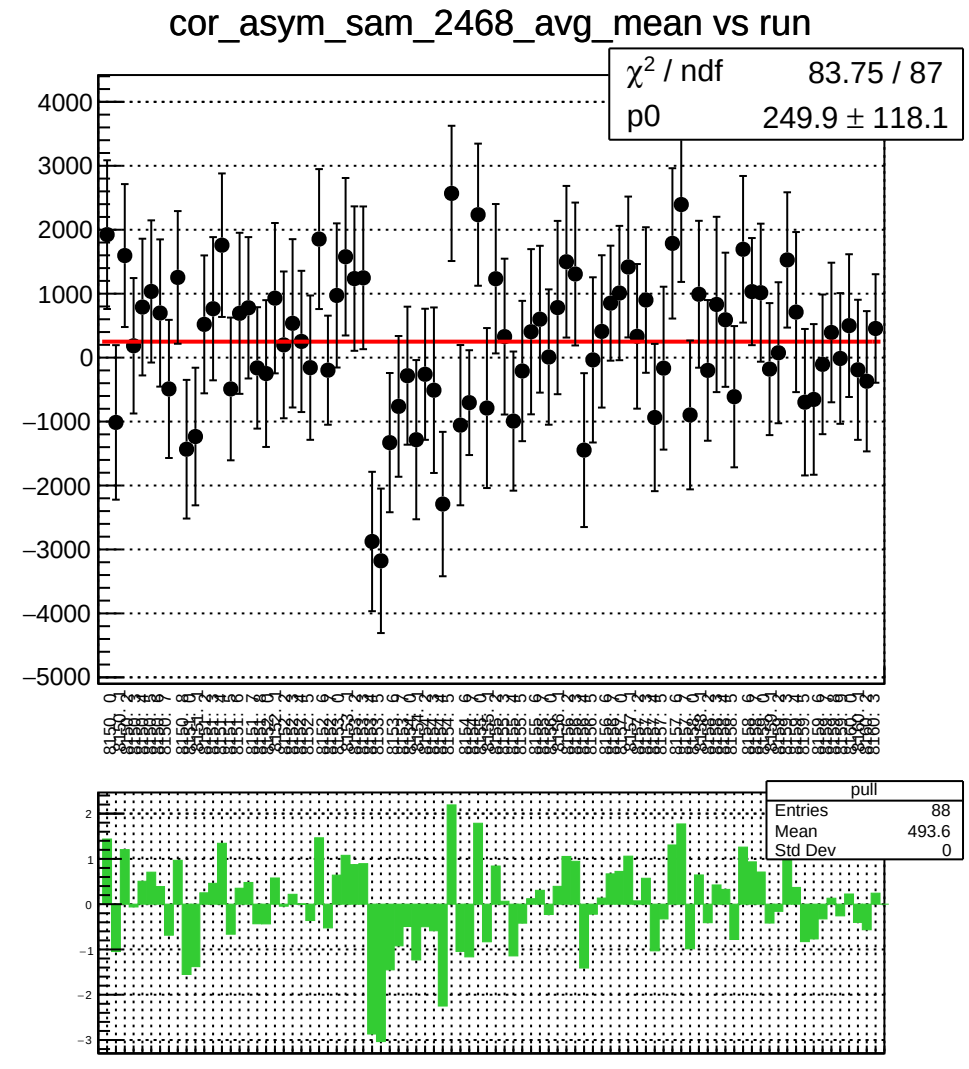

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 83.75 / 87
p0 249.9 ± 118.1
pull
Entries 88
Mean 494.2
Std Dev 0
pull1D
Entries 88
Mean 0.00151
Std Dev 0.9755

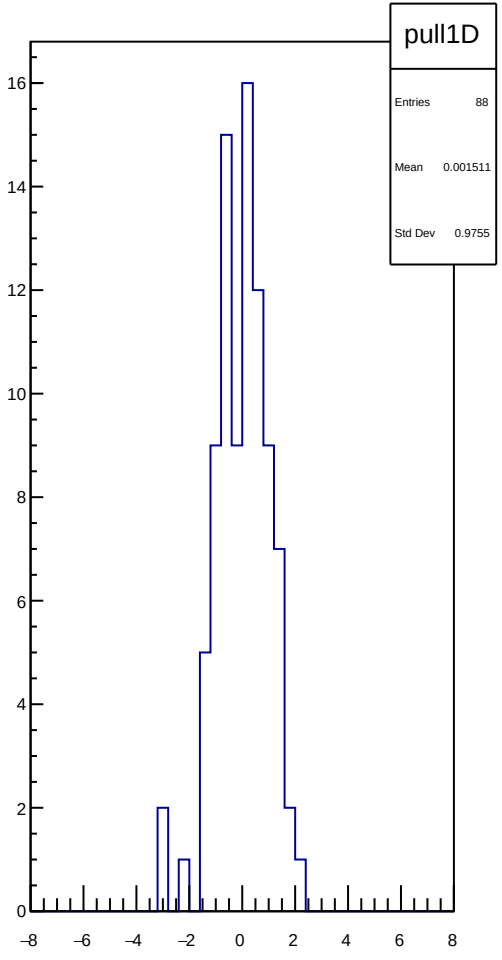

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 7205 / 87
p0 107.9 ± 0.0835
135
130
125
120
115
110
105
100
95

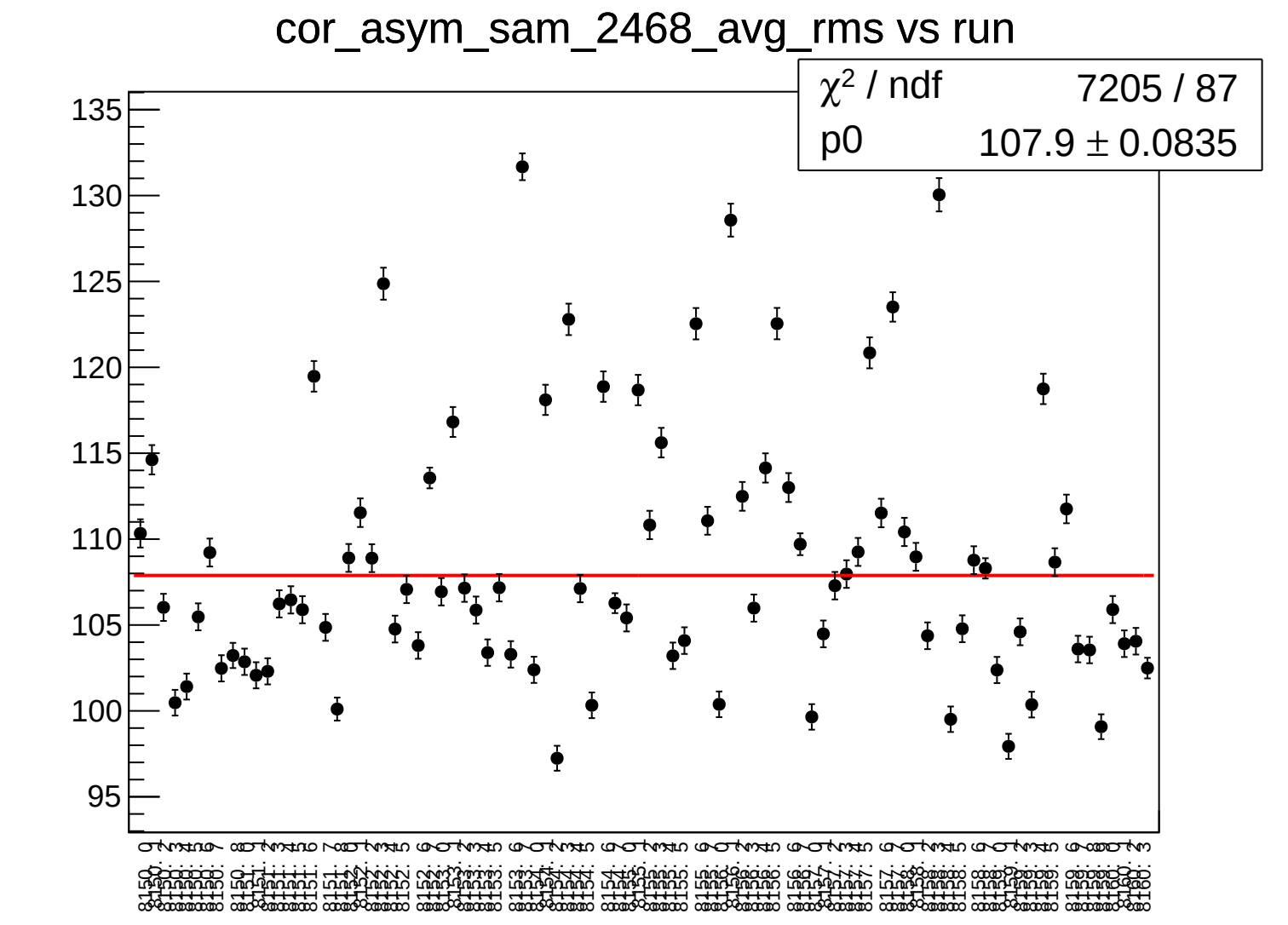

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 99.85 / 87
p0 −2356 ± 1771
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −946.9
Std Dev 0
2
1
0
−1
−2

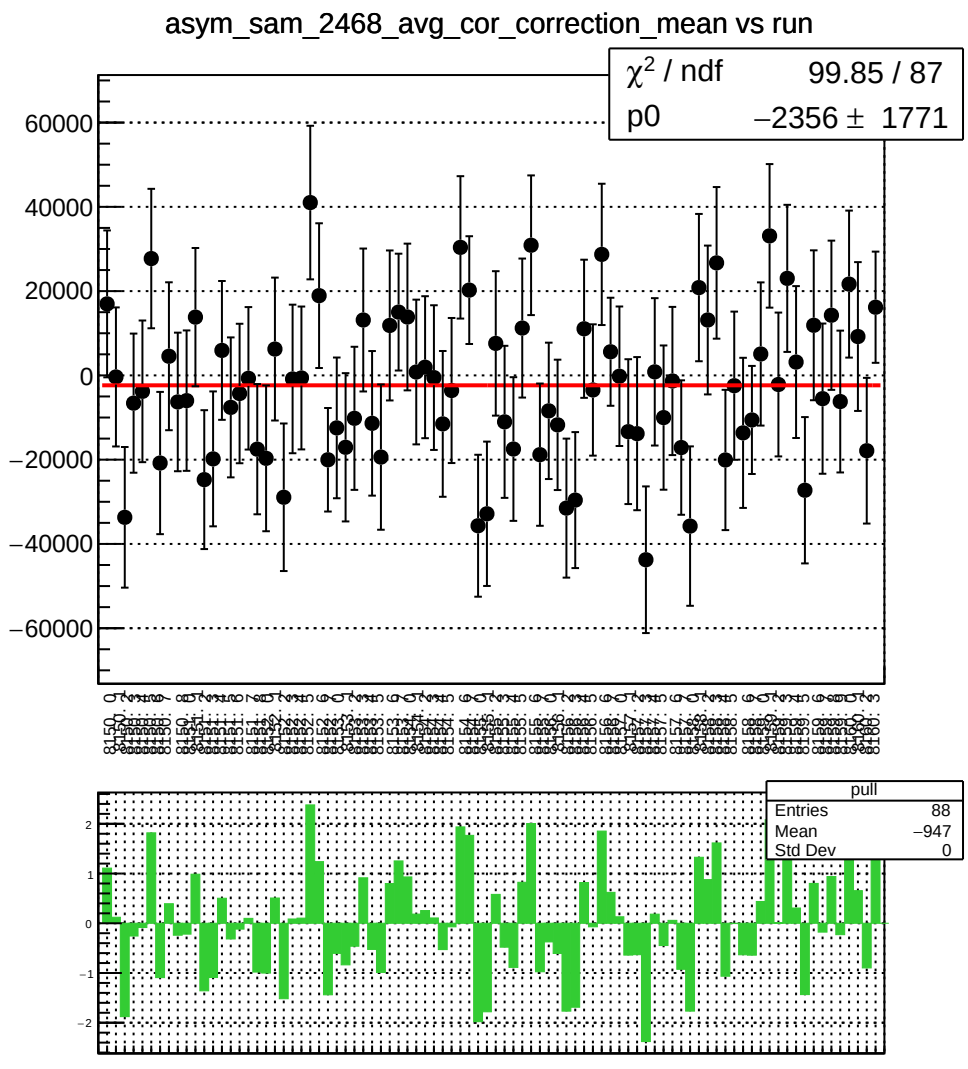

pull1D
Entries 88
Mean −0.0026
Std Dev 1.065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

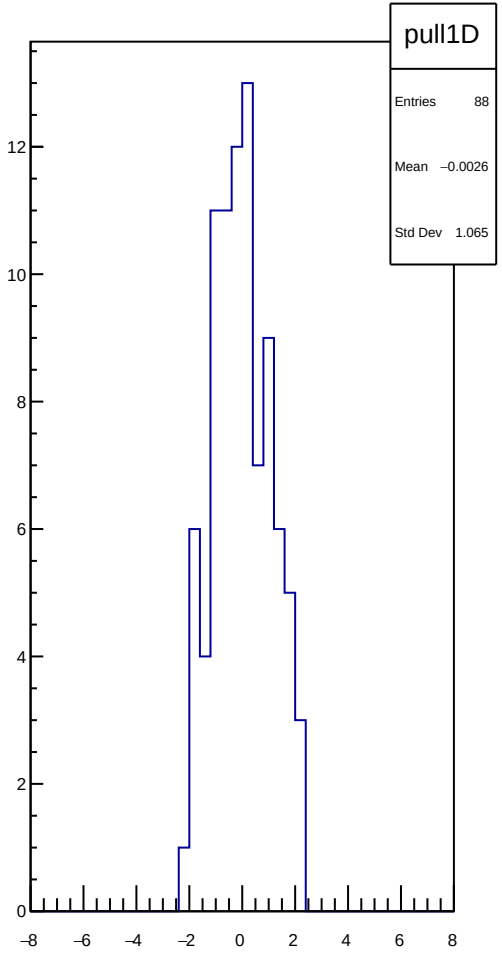

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1814 / 87
p0 1620 ± 1.252
1800
1750
1700
1650
1600
1550
1500
1450

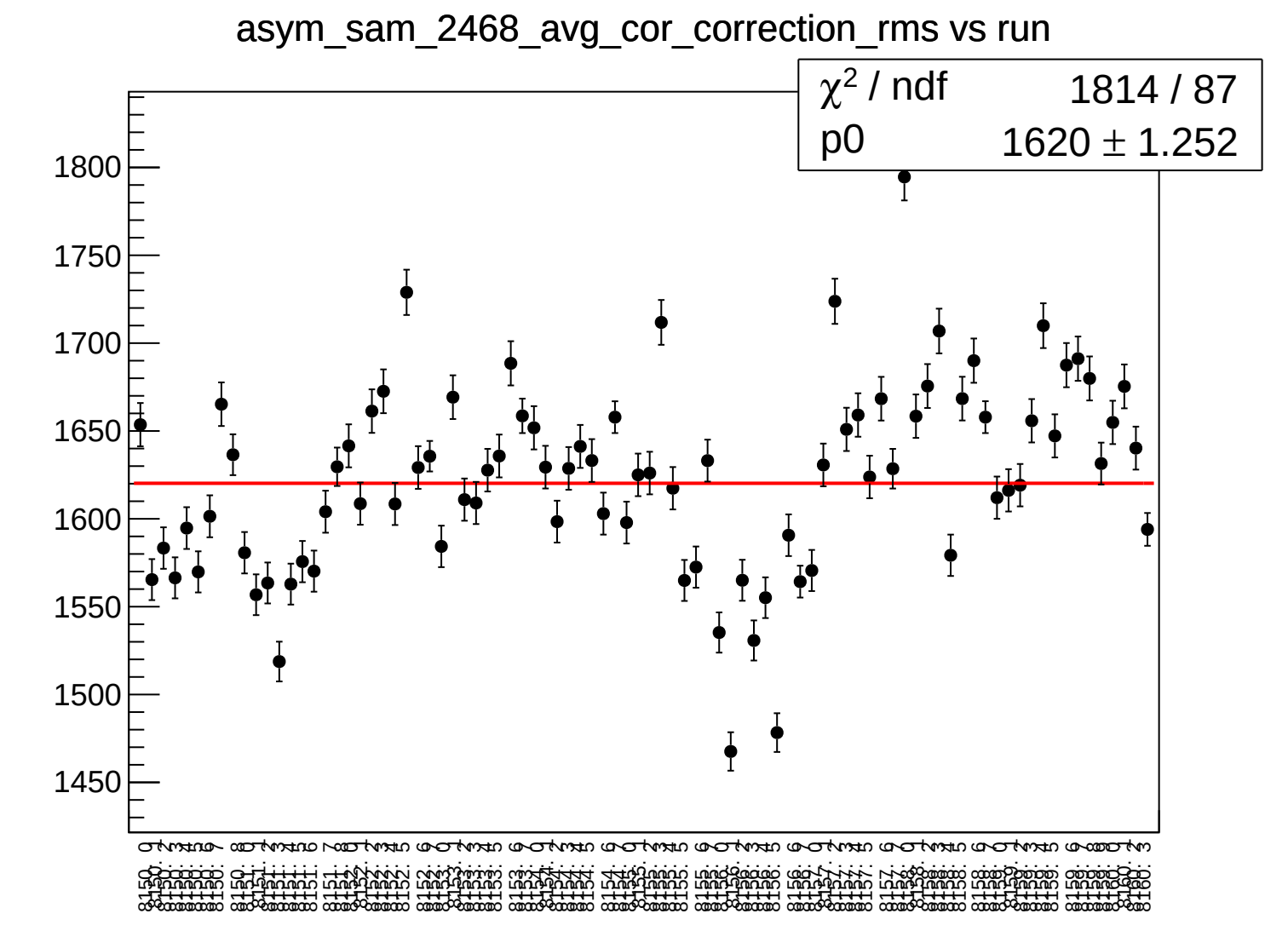

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 83.75 / 87
p0 249.9 ± 118.1
pull
Entries 88
Mean 493.6
Std Dev 0

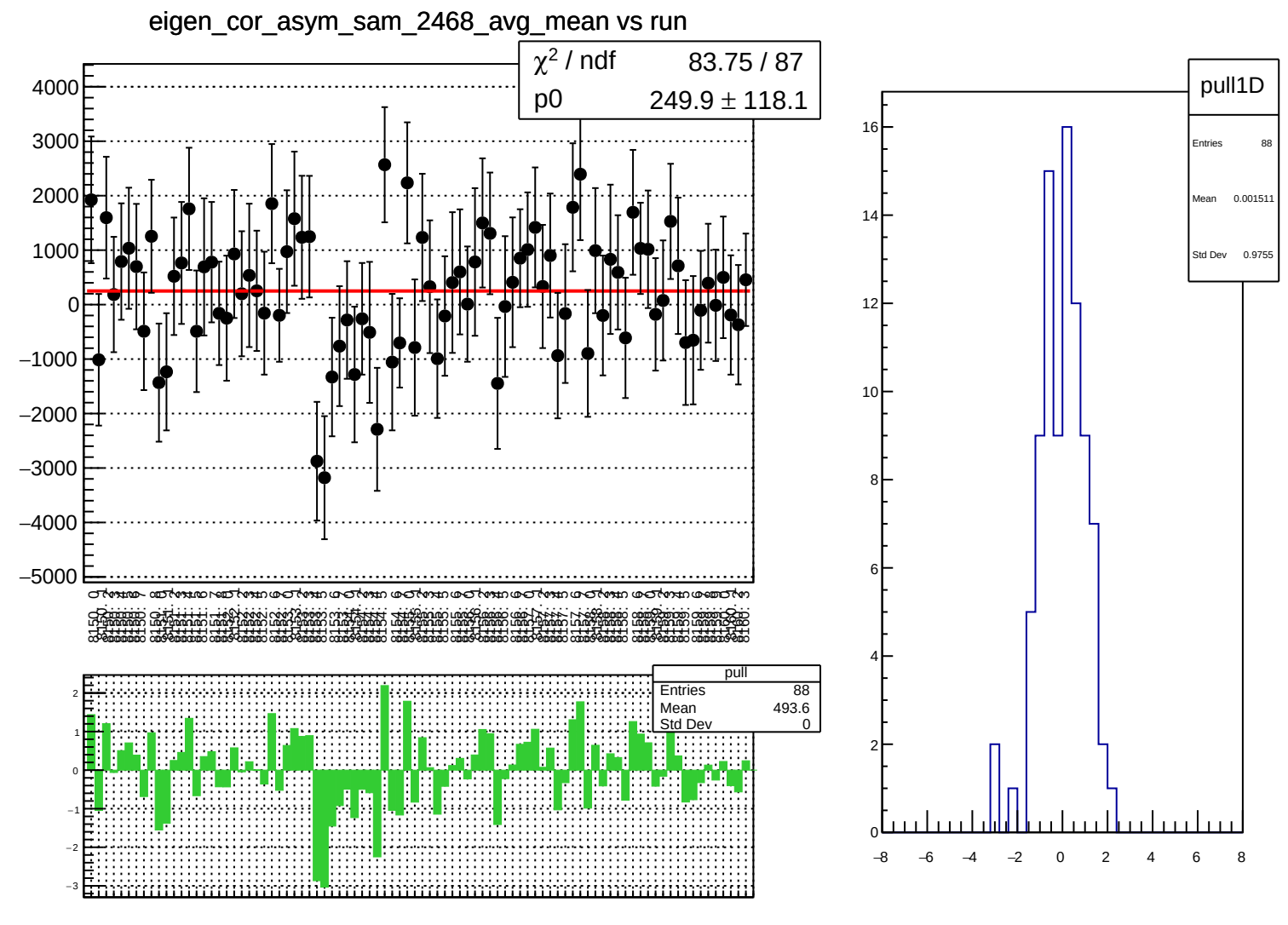

pull1D
Entries 88
Mean 0.001511
Std Dev 0.9755

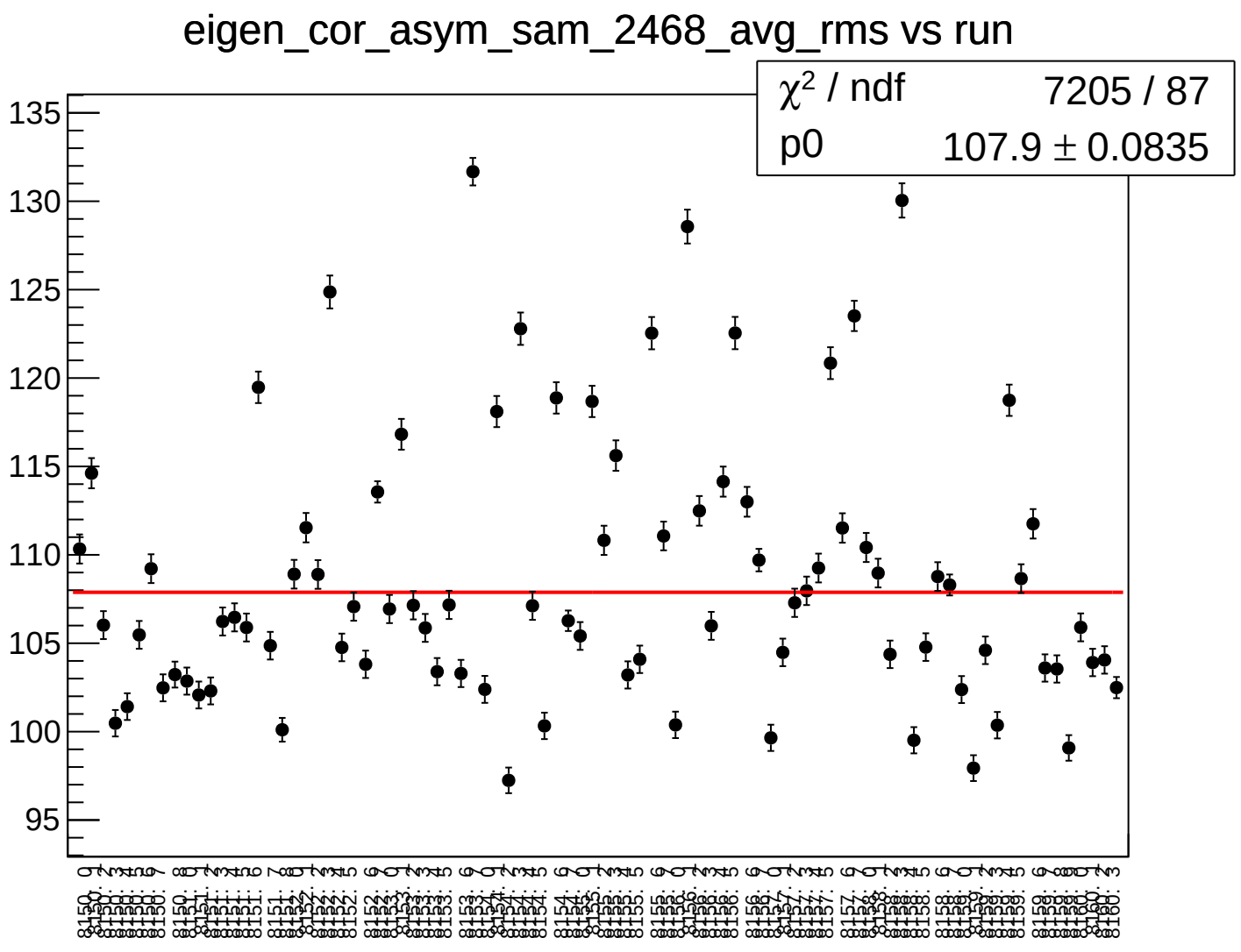

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 7205 / 87
p0 107.9 ± 0.0835
135
130
125
120
115
110
105
100
95

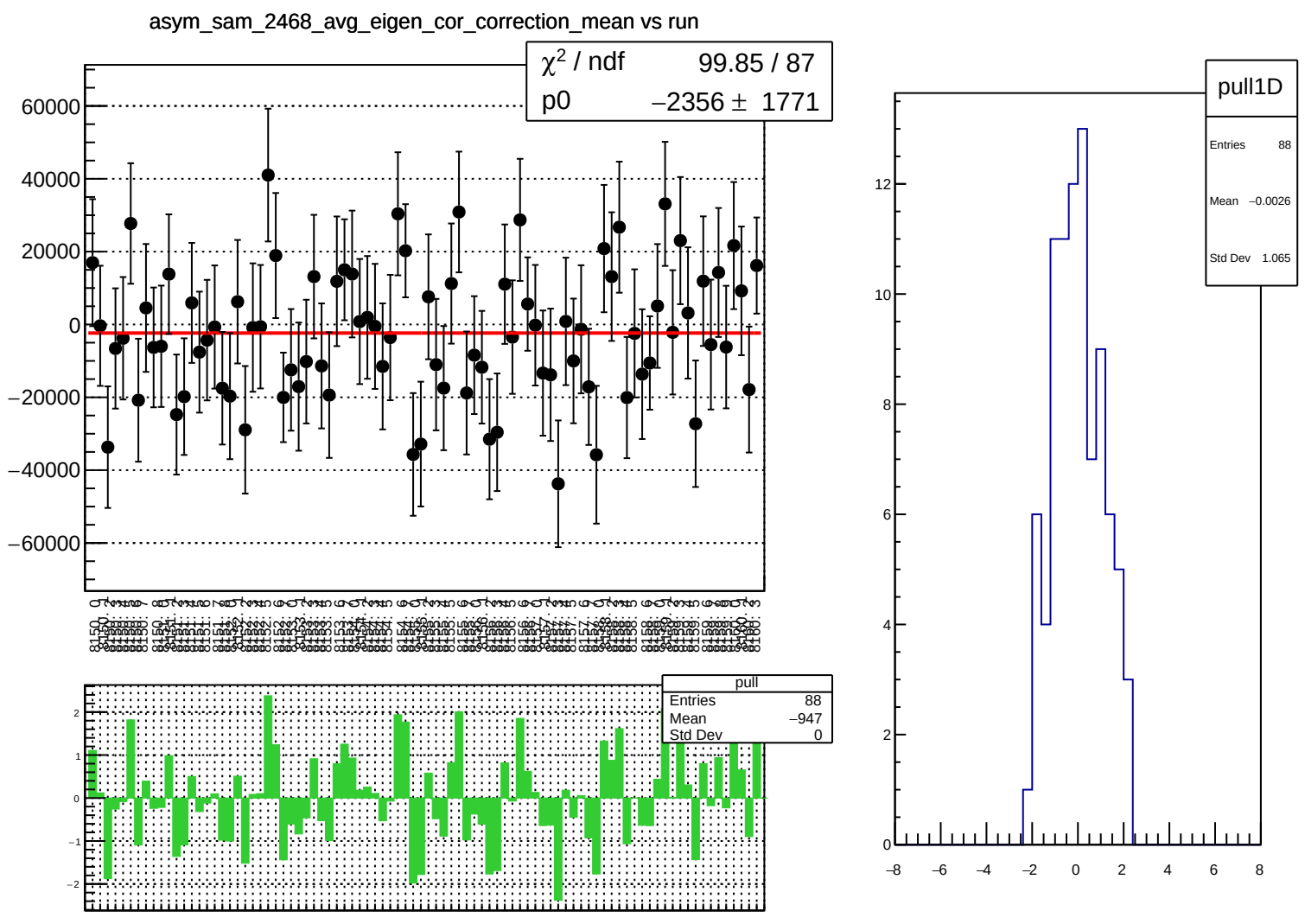

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 99.85 / 87
p0 −2356 ± 1771
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −947
Std Dev 0
2
1
0
−1
−2

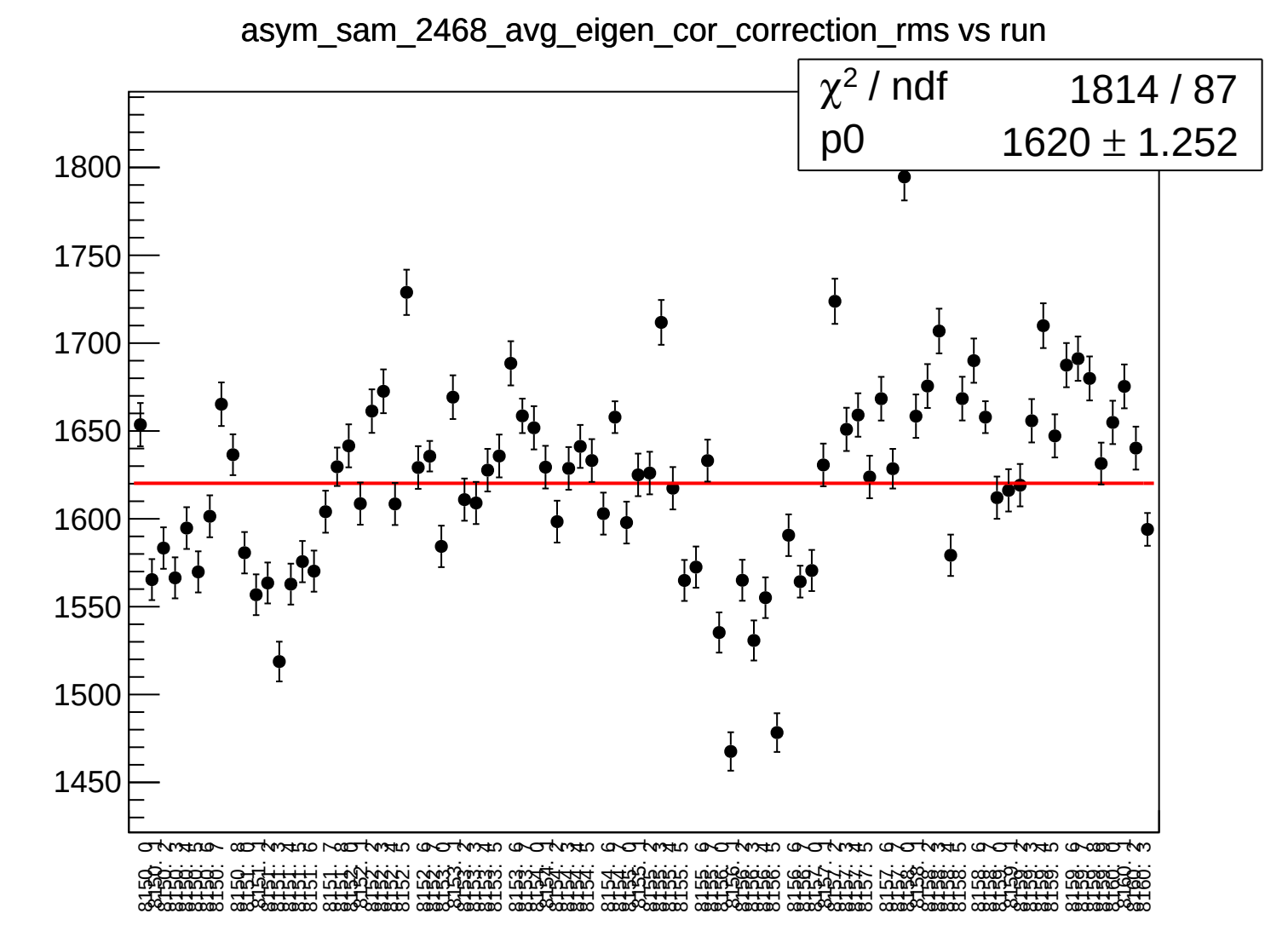

pull1D
Entries 88
Mean −0.0026
Std Dev 1.065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

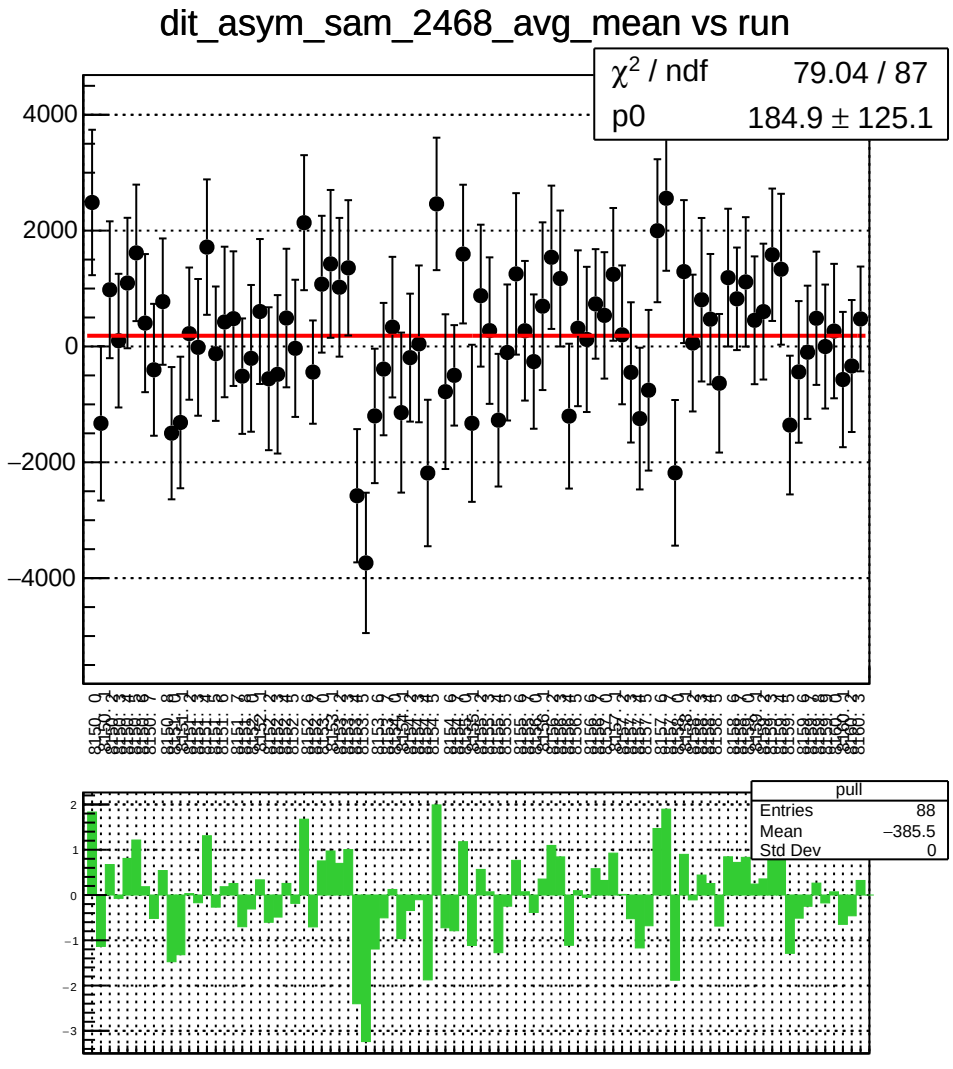

asym_sam_2468_avg_cor_correction_rms vs run
χ^2 / ndf 1814 / 87
p0 1620 ± 1.252
1800
1750
1700
1650
1600
1550
1500
1450

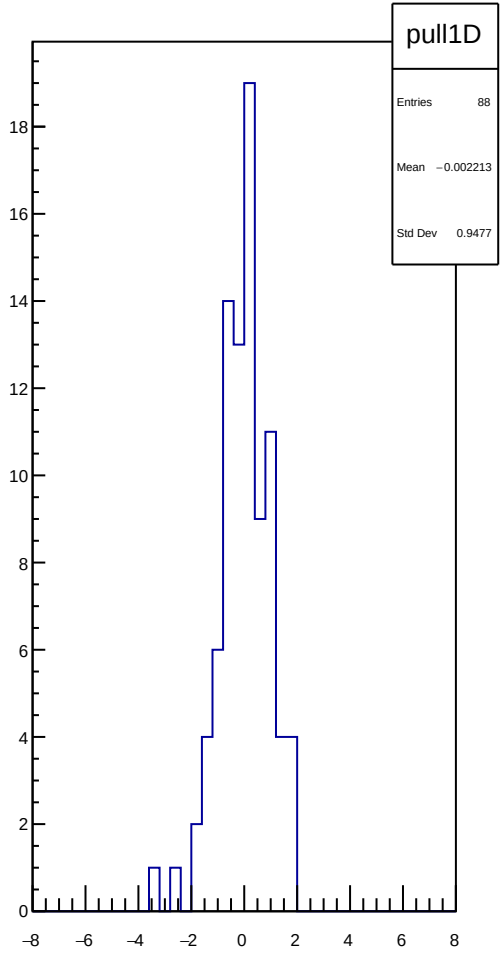

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 83.75 / 87
p0 249.9 ± 118.1
pull
Entries 88
Mean 493.6
Std Dev 0
pull1D
Entries 88
Mean 0.001511
Std Dev 0.9755

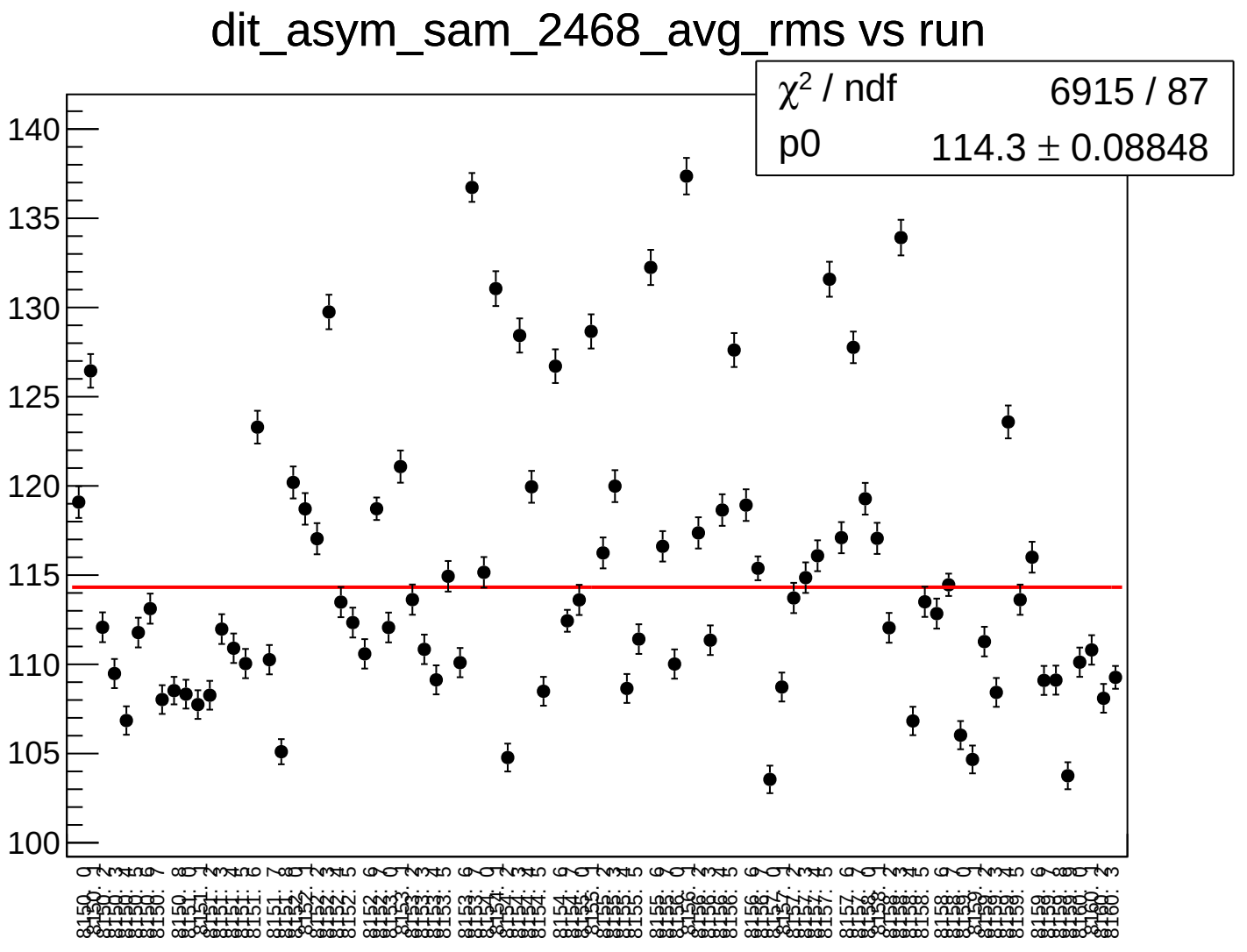

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 7205 / 87
p0 107.9 ± 0.0835
135
130
125
120
115
110
105
100
95

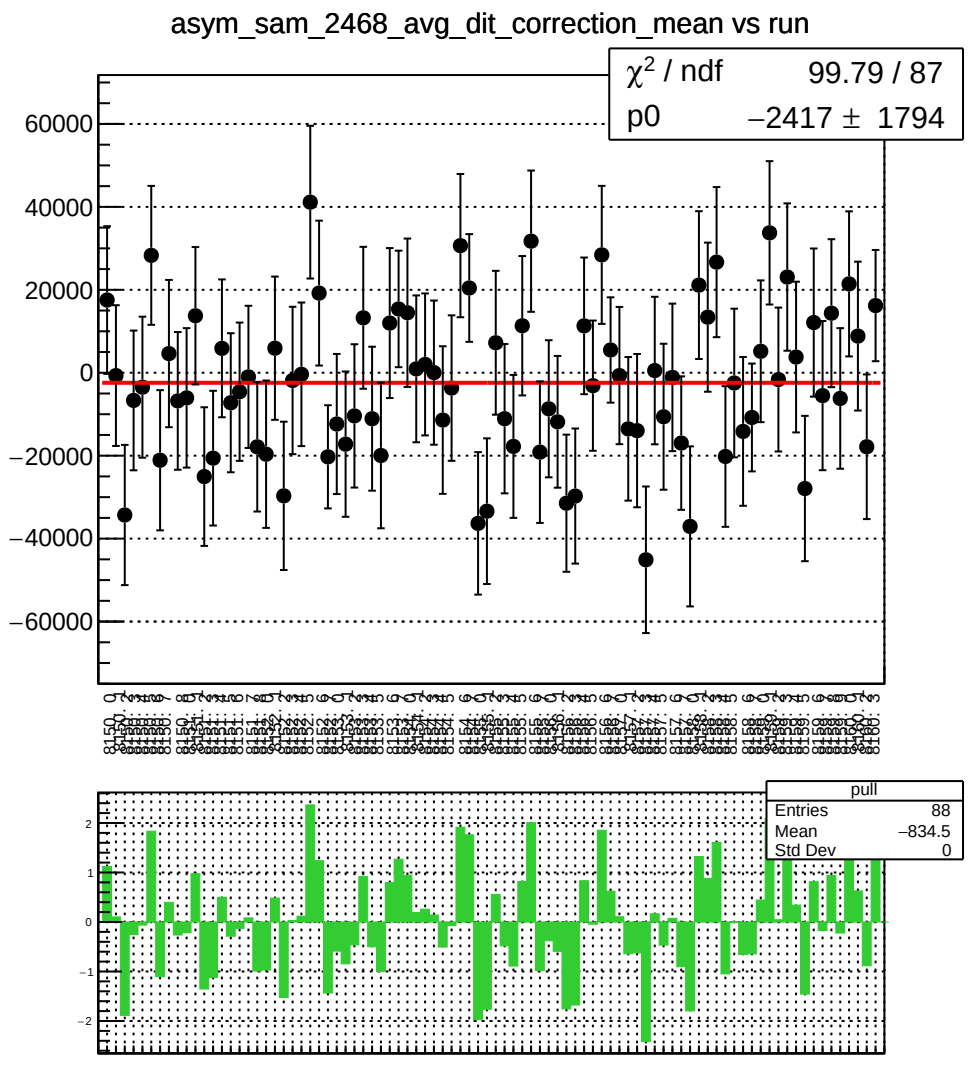

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.85 / 87
p0 −2356 ± 1771
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −947
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0026
Std Dev 1.065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

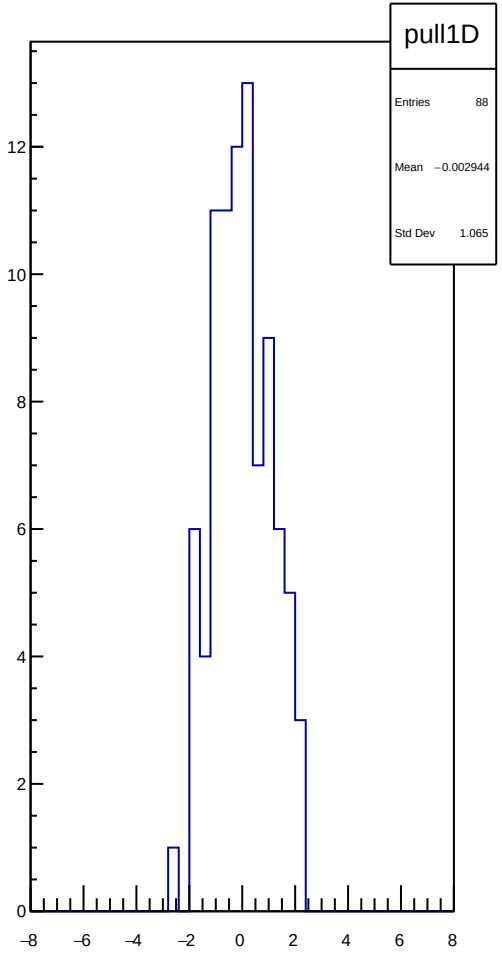

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1814 / 87
p0 1620 ± 1.252
1800
1750
1700
1650
1600
1550
1500
1450

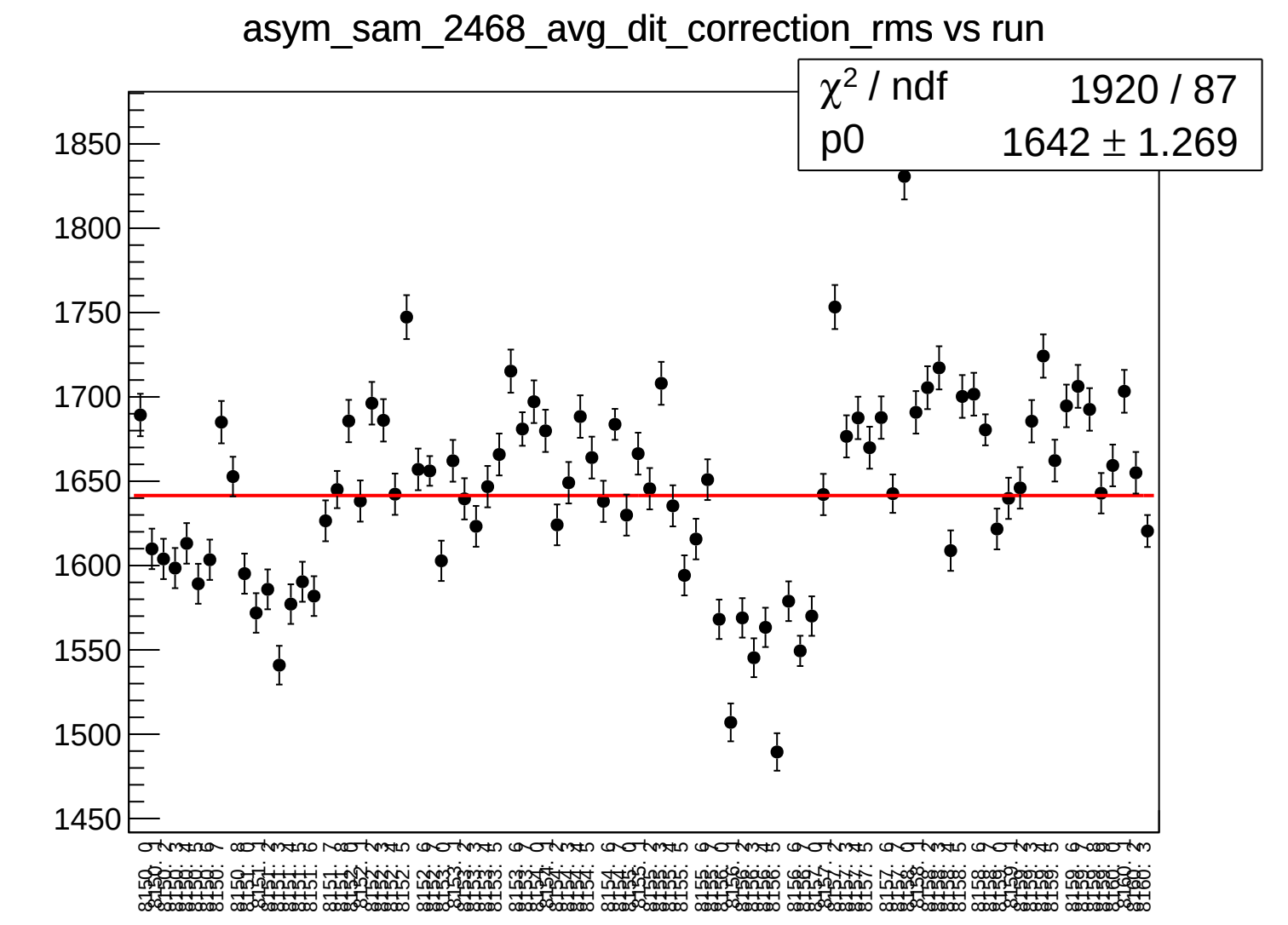

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 79.04 / 87
p0 184.9 ± 125.1
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −385.5
Std Dev 0
2
1
0
−1
−2
−3

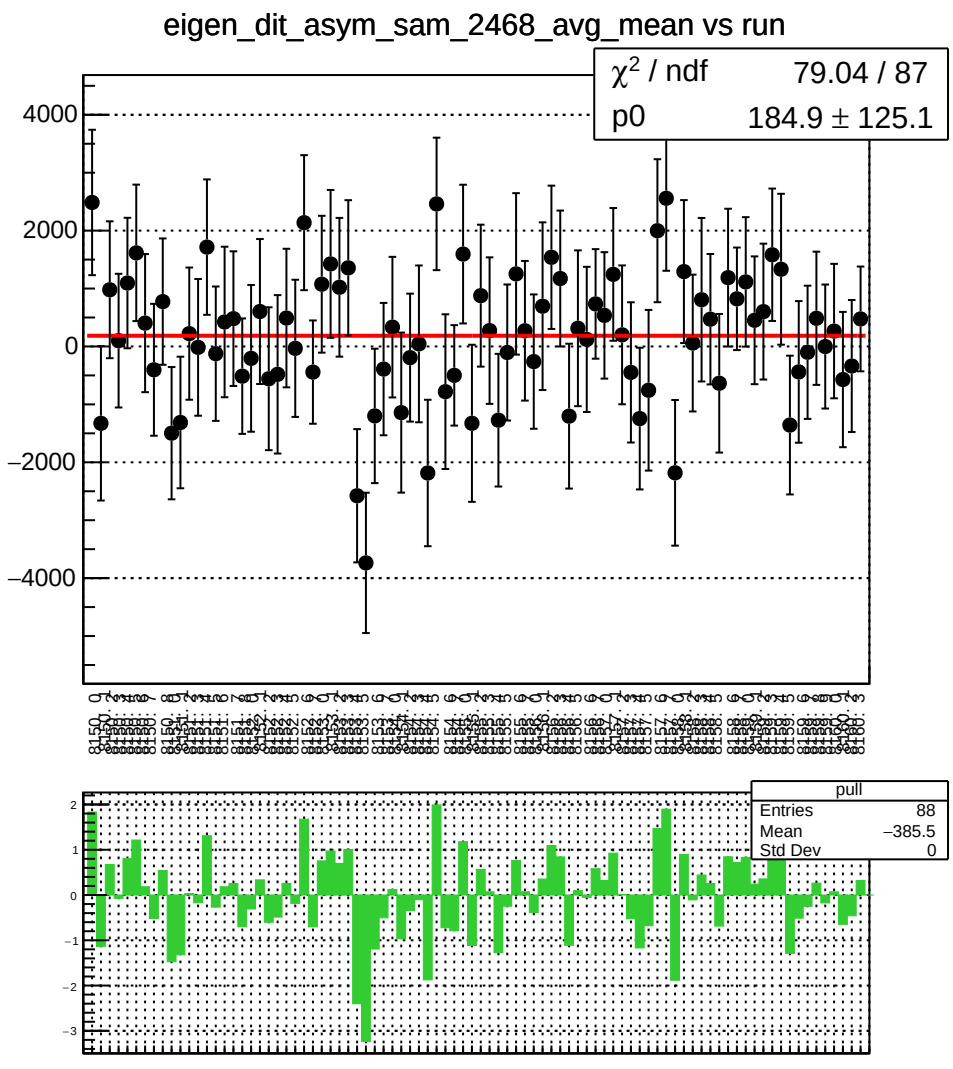

pull1D
Entries 88
Mean −0.002213
Std Dev 0.9477
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

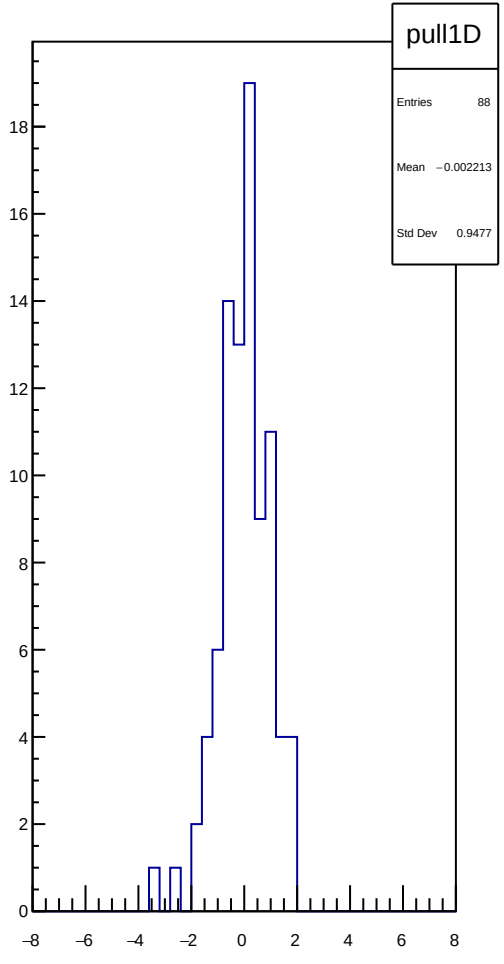

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 6915 / 87
p0 114.3 ± 0.08848
140
135
130
125
120
115
110
105
100

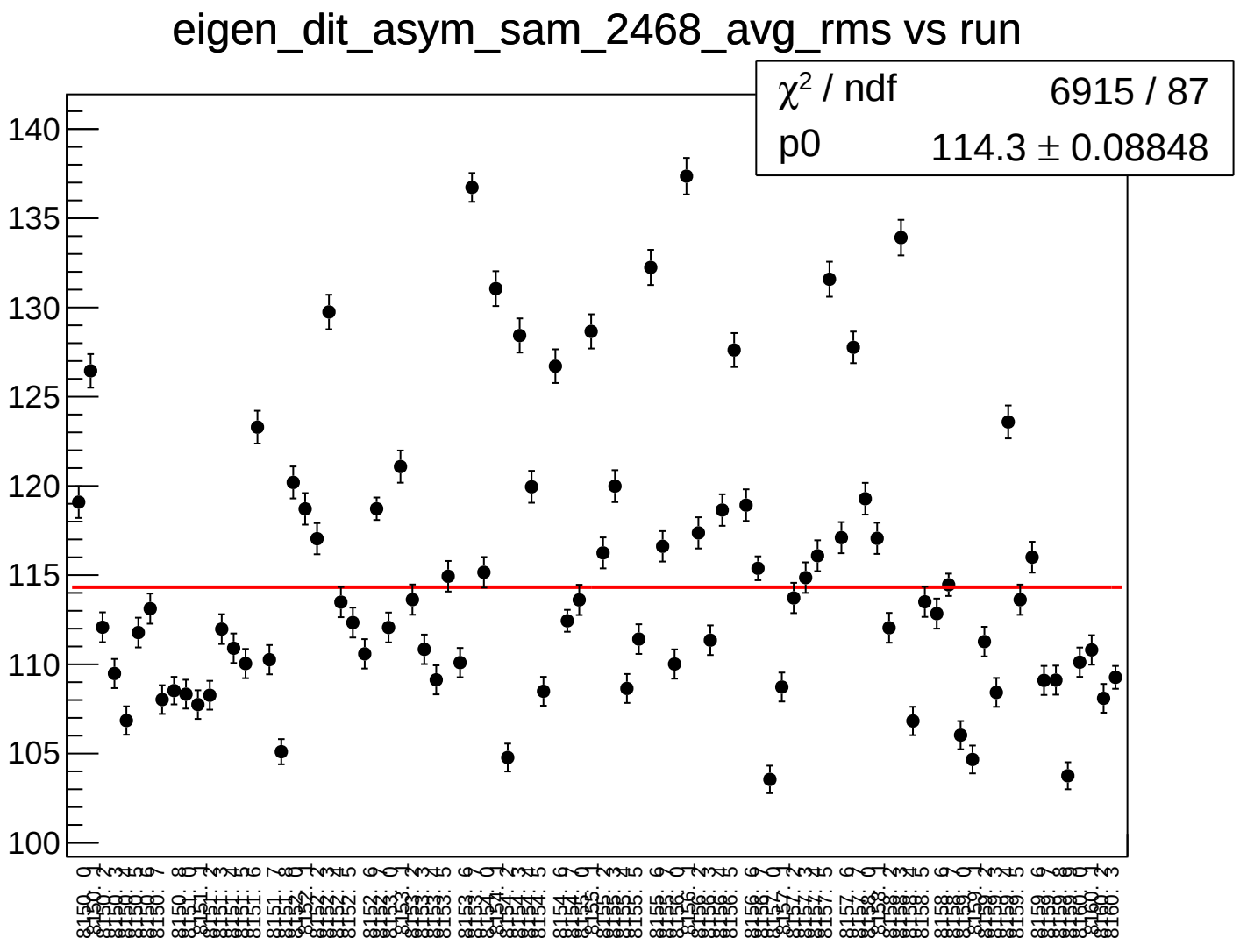

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 99.79 / 87
p0 −2417 ± 1794
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −834.5
Std Dev 0
2
1
0
−1
−2

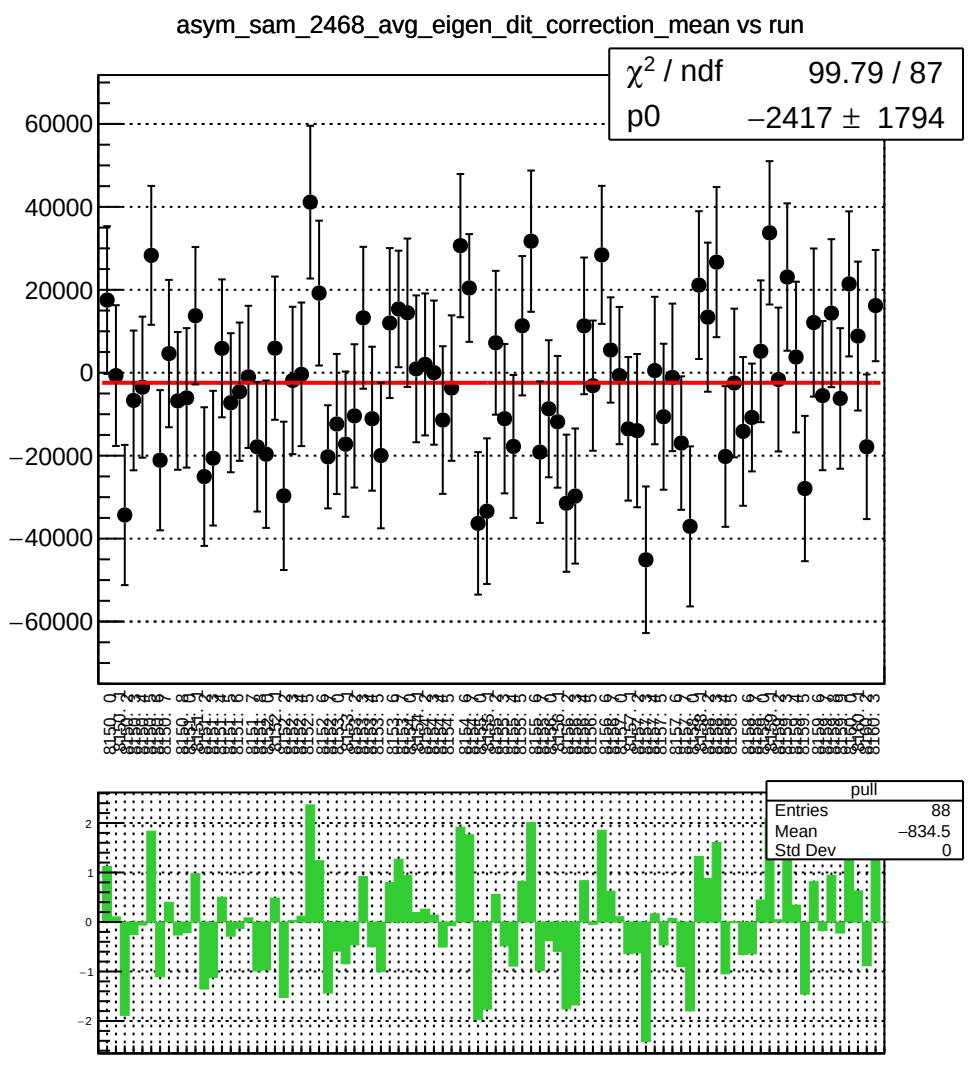

pull1D
Entries 88
Mean −0.002944
Std Dev 1.065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

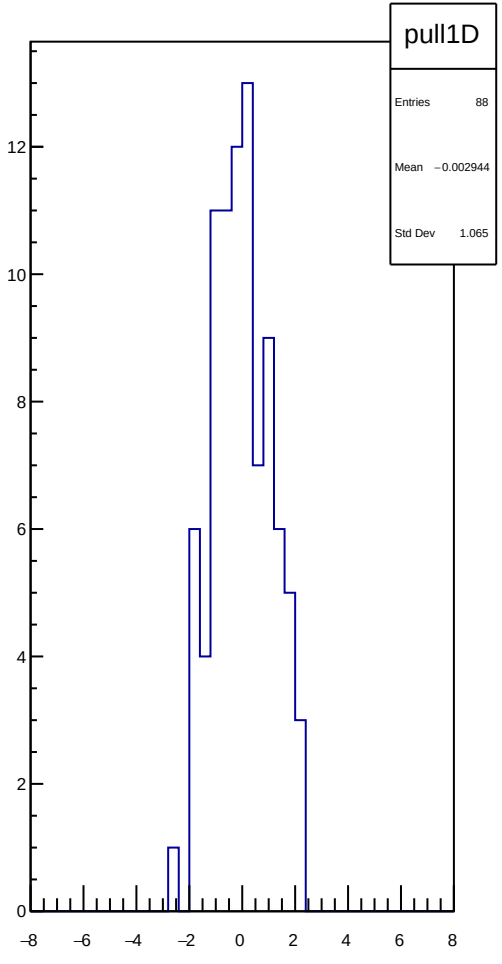

asym_sam_2468_avg_dit_correction_rms vs run
χ^2 / ndf 1920 / 87
p0 1642 ± 1.269
1850
1800
1750
1700
1650
1600
1550
1500
1450

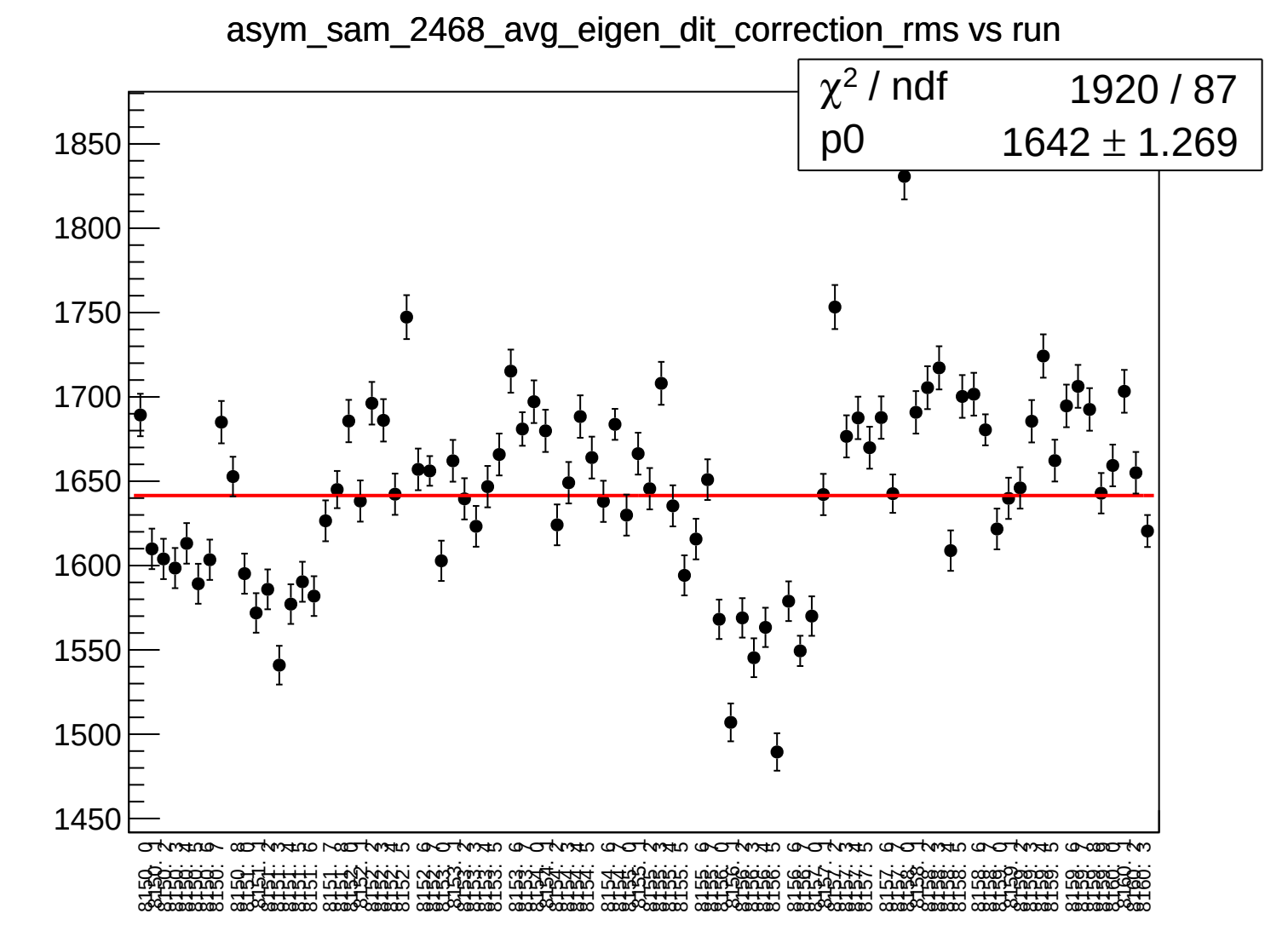

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 79.04 / 87
p0 184.9 ± 125.1
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −385.5
Std Dev 0
2
1
0
−1
−2
−3

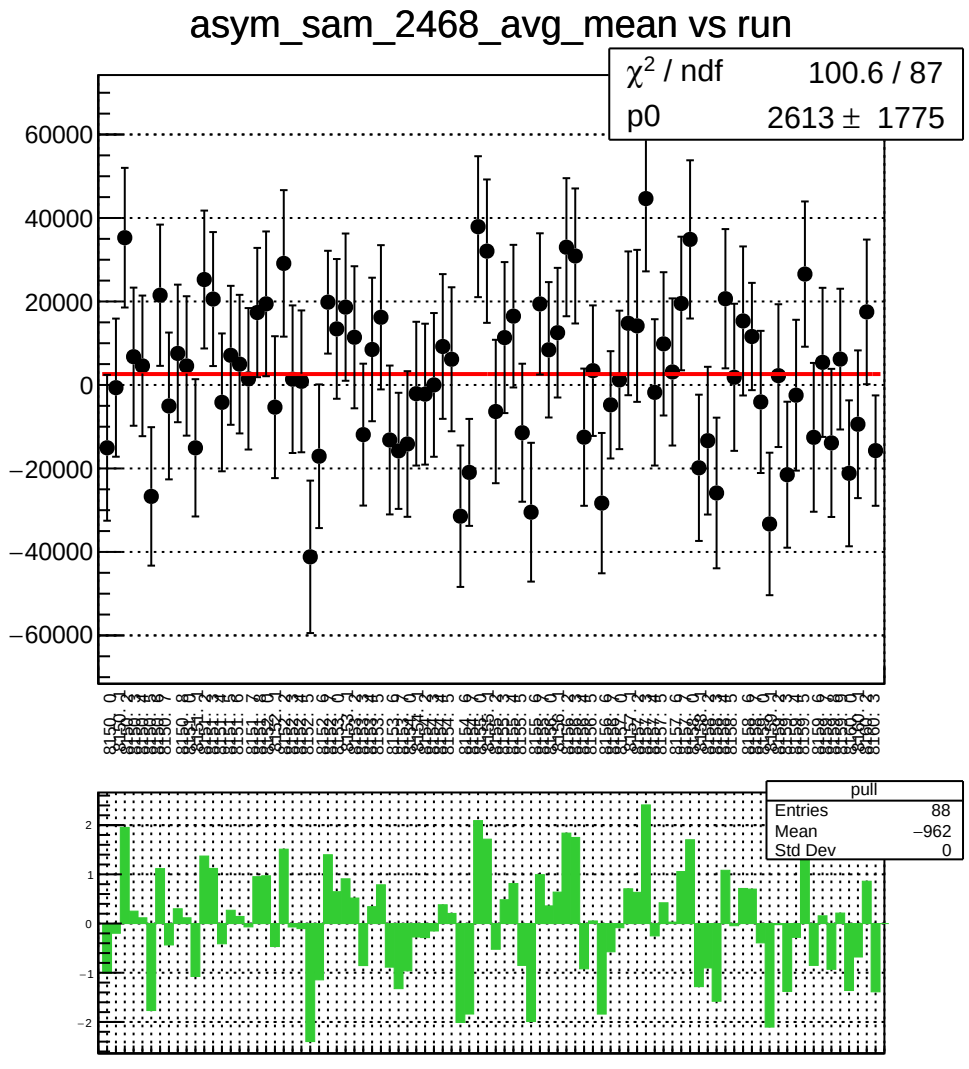

pull1D
Entries 88
Mean −0.002213
Std Dev 0.9477
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

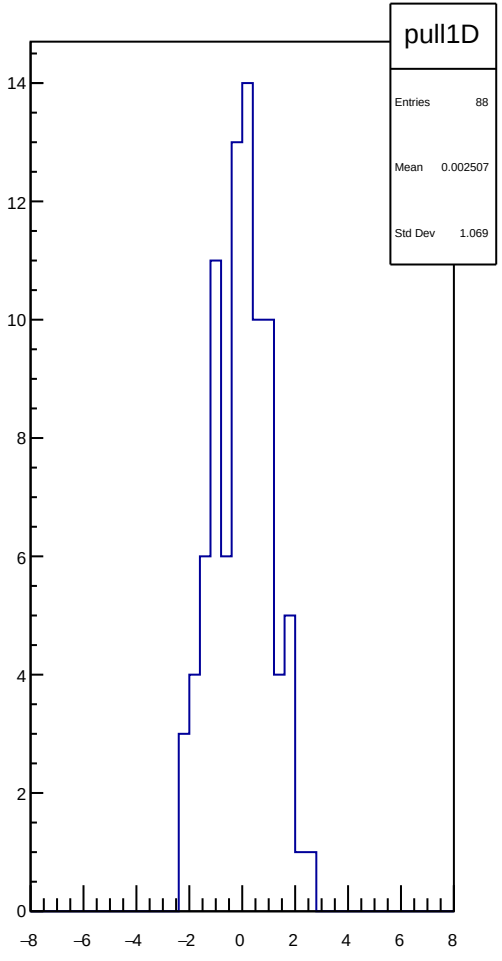

eigen_dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 6915 / 87
p0 114.3 ± 0.08848
140
135
130
125
120
115
110
105
100

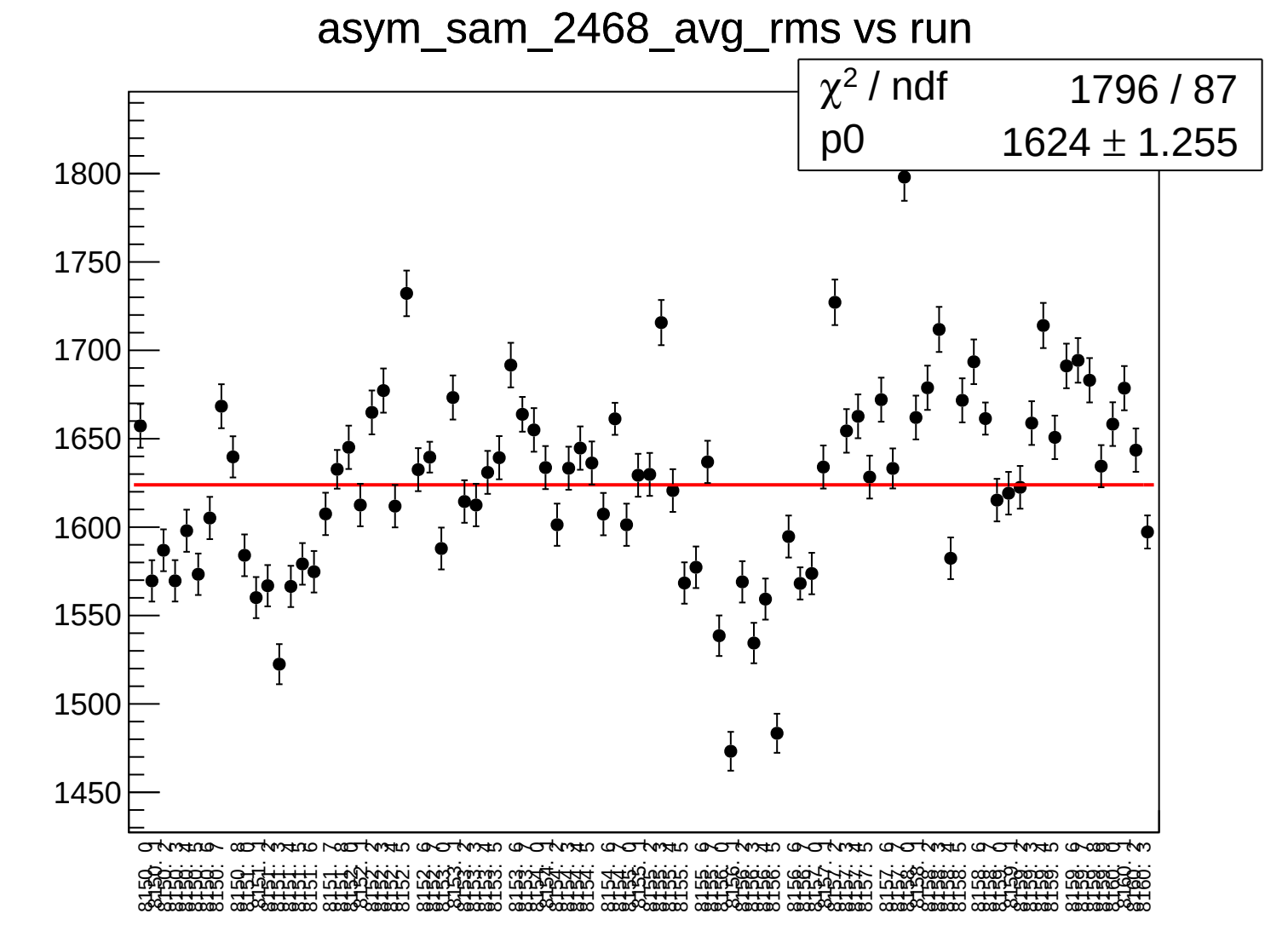

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.79 / 87
p0 −2417 ± 1794
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −834.5
Std Dev 0
2
1
0
−1
−2

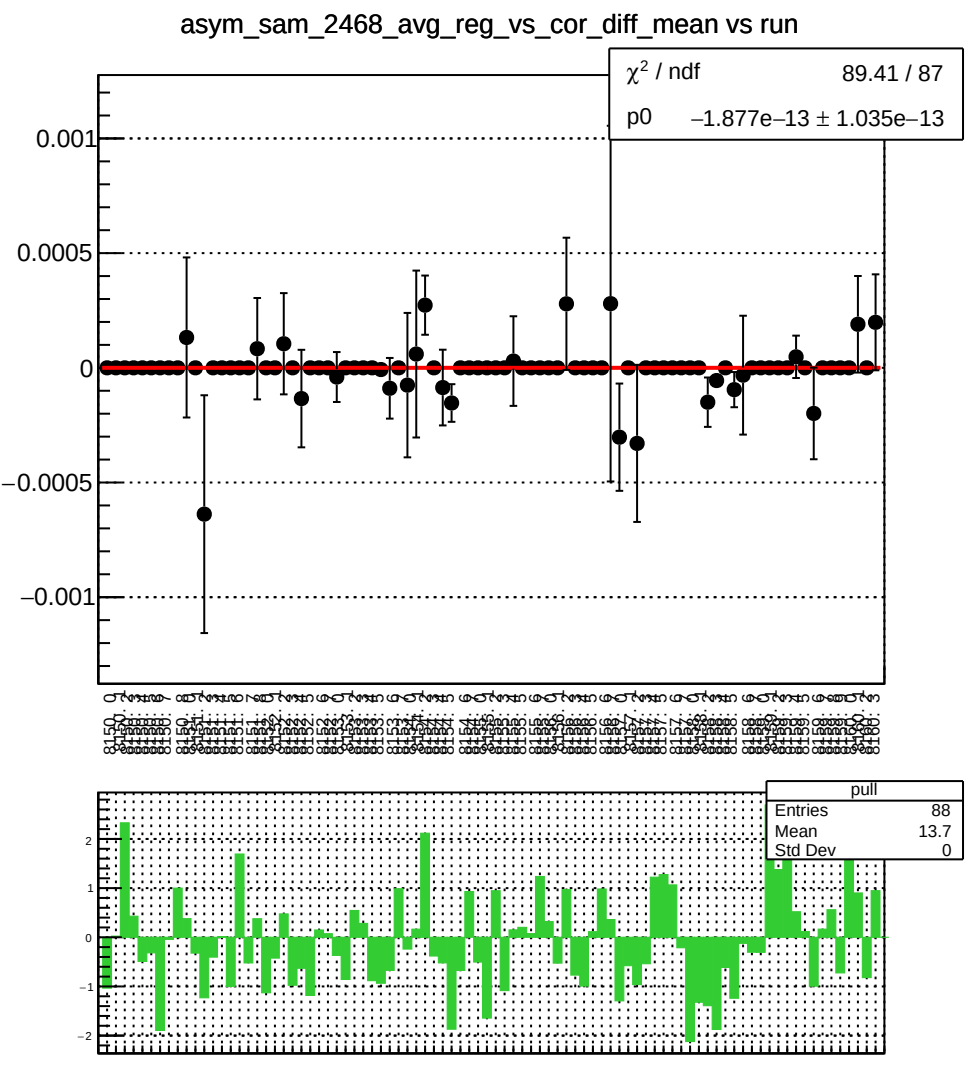

pull1D
Entries 88
Mean −0.002944
Std Dev 1.065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

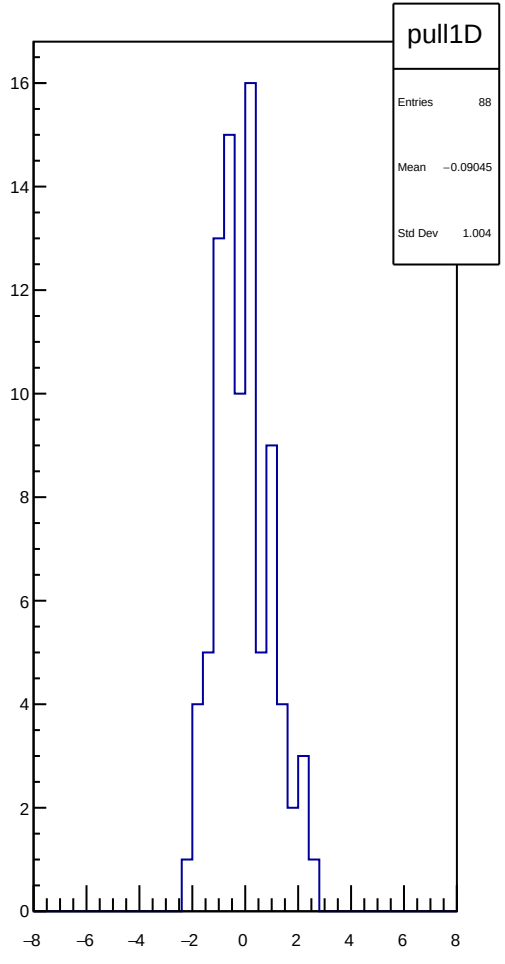

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1920 / 87
p0 1642 ± 1.269
1850
1800
1750
1700
1650
1600
1550
1500
1450

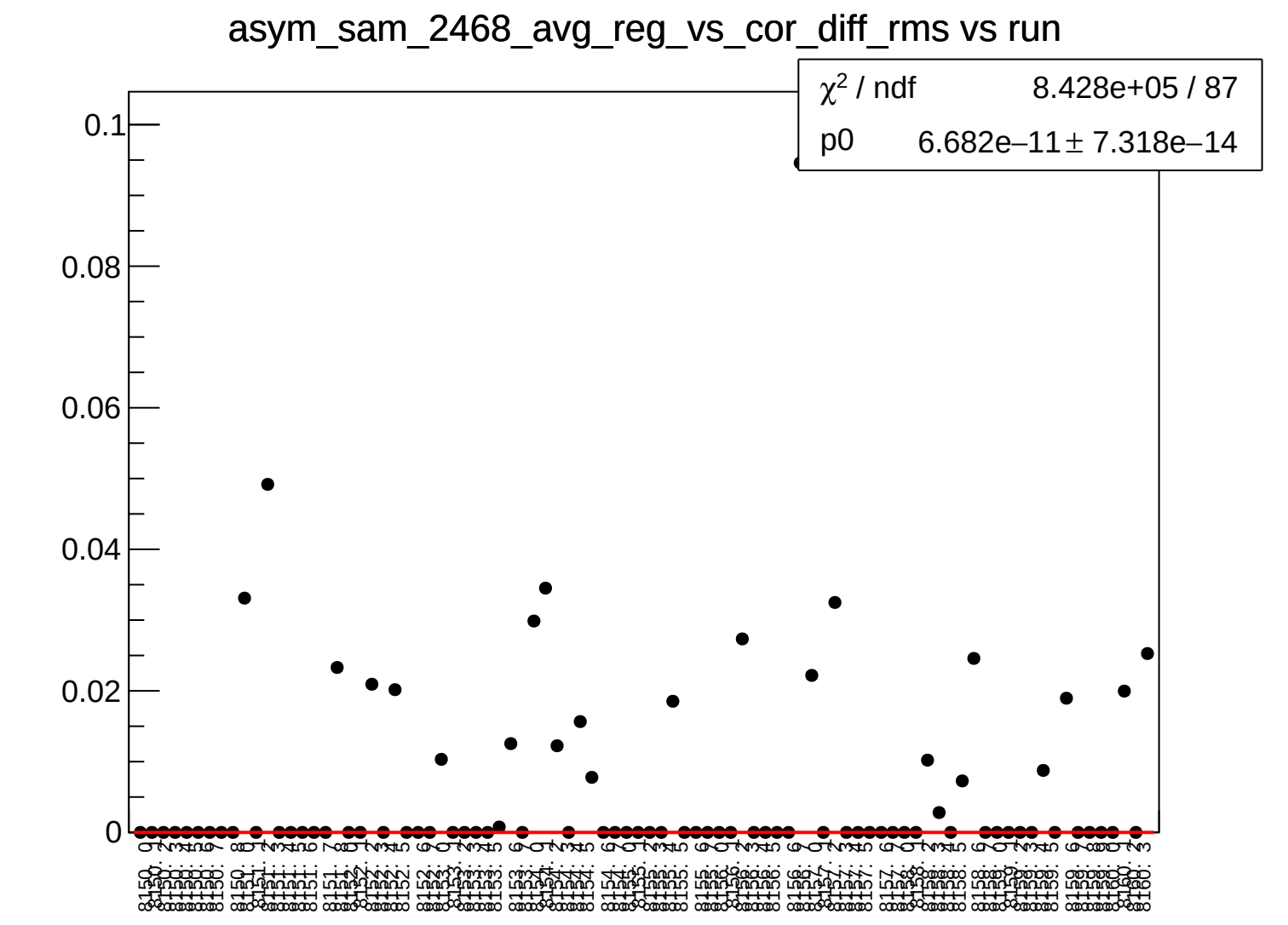

asym_sam_2468_avg_mean vs run
χ² / ndf 100.6 / 87
p0 2613 ± 1775
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −962
Std Dev 0
2
1
0
−1
−2

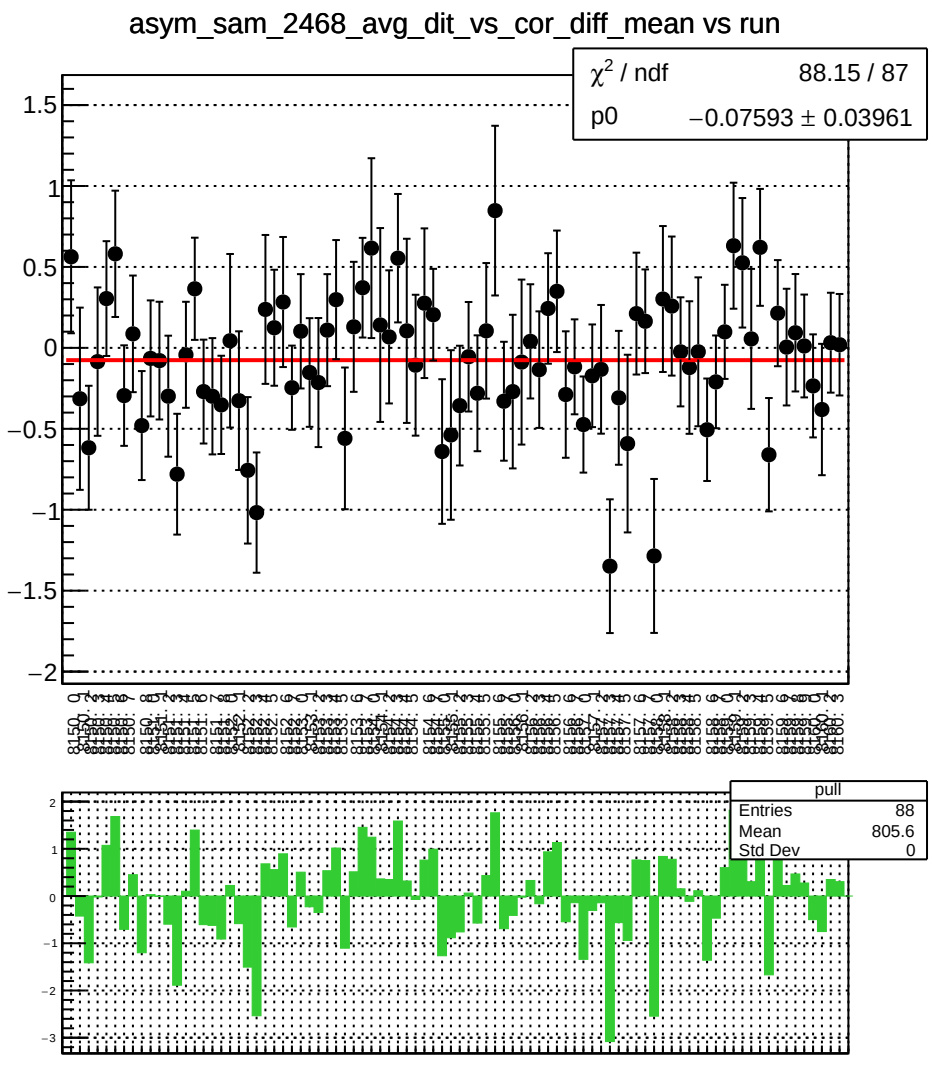

pull1D
Entries 88
Mean 0.002507
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

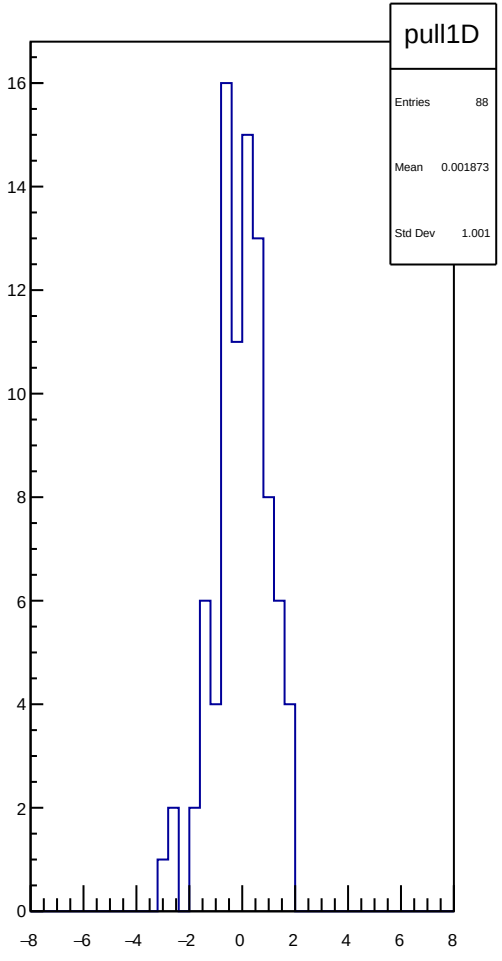

asym_sam_2468_avg_rms vs run
χ² / ndf 1796 / 87
p0 1624 ± 1.255
1800
1750
1700
1650
1600
1550
1500
1450

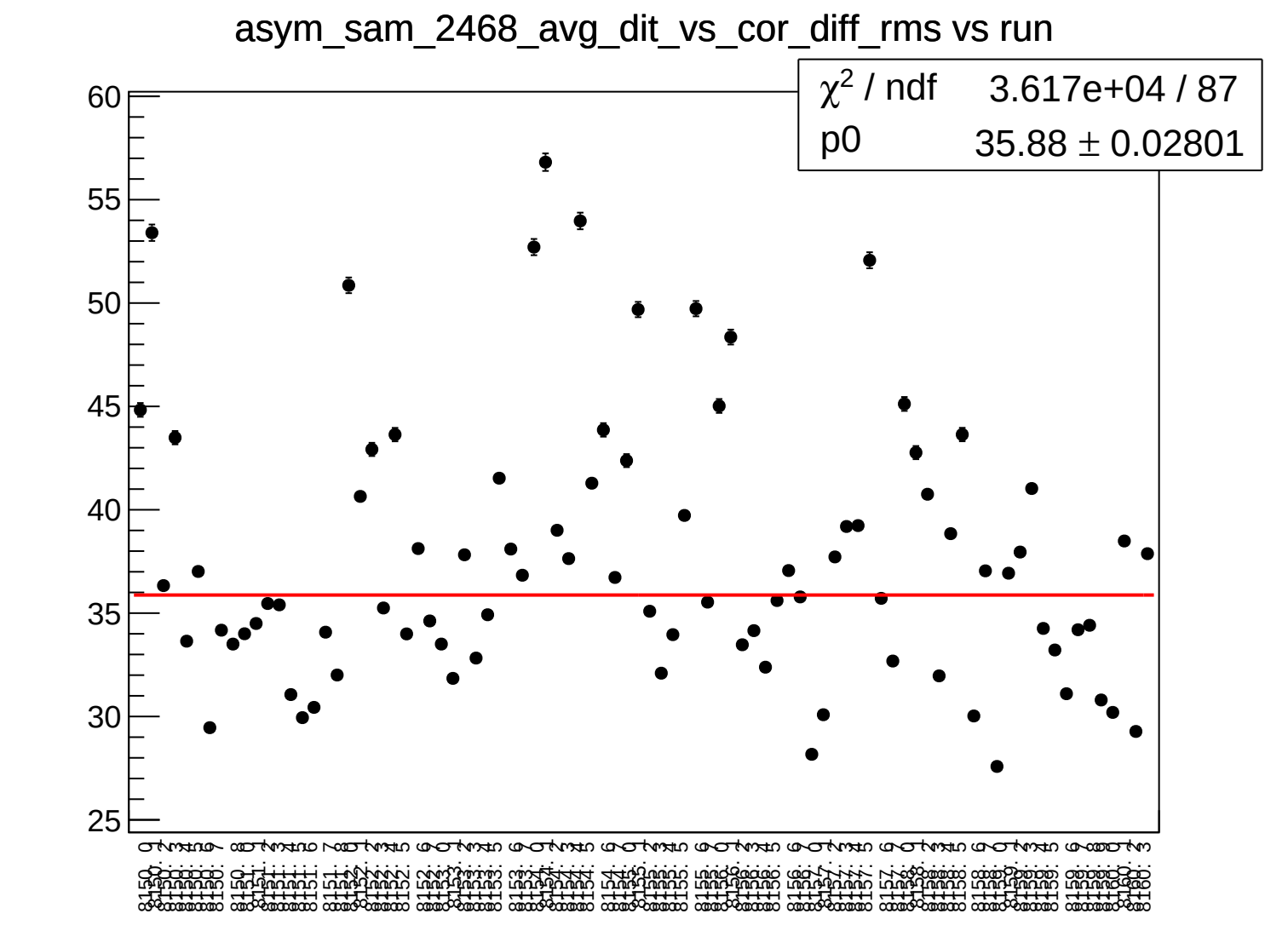

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.41 / 87
p0 −1.877e−13 ± 1.035e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 13.7
Std Dev 0
2
1
0
−1
−2

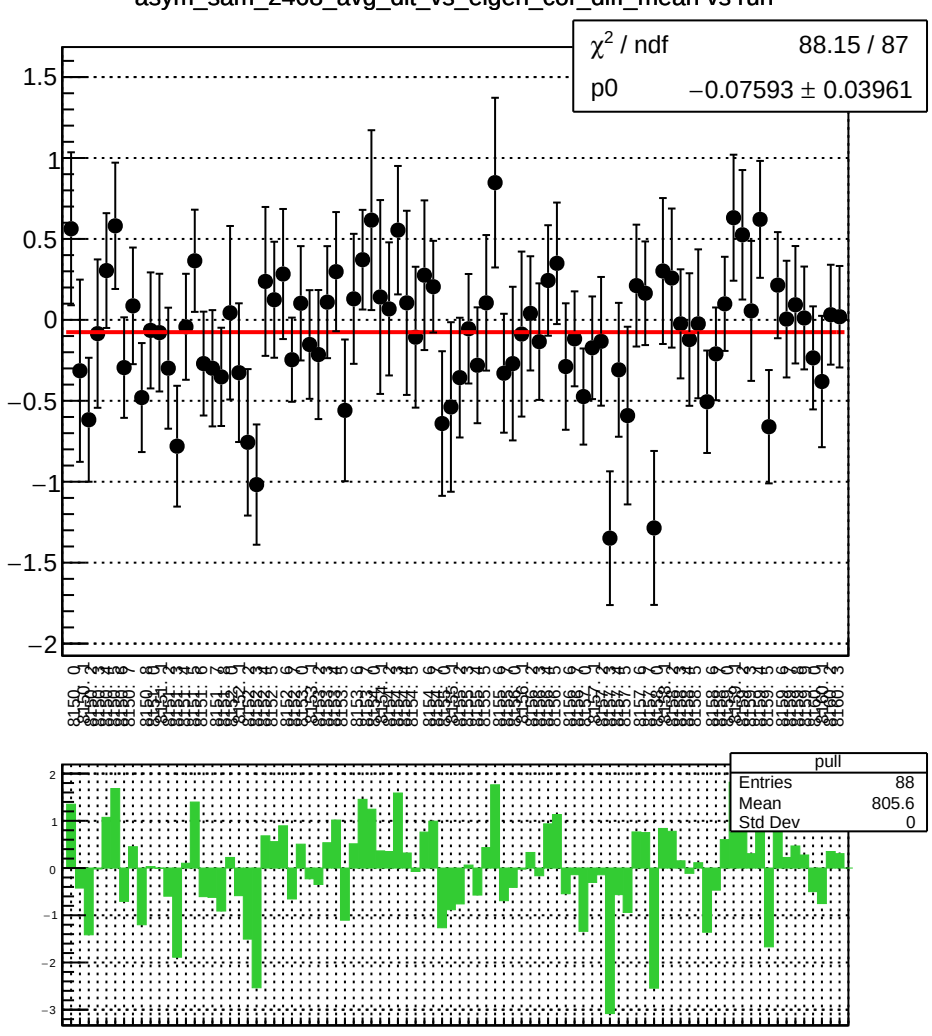

pull1D
Entries 88
Mean −0.09045
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

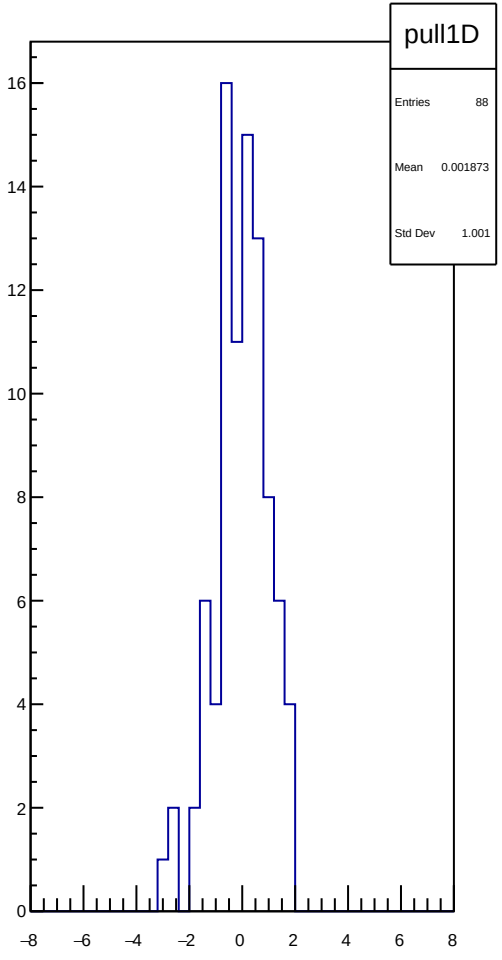

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.428e+05 / 87
p0 6.682e−11 ± 7.318e−14
0.1
0.08
0.06
0.04
0.02
0

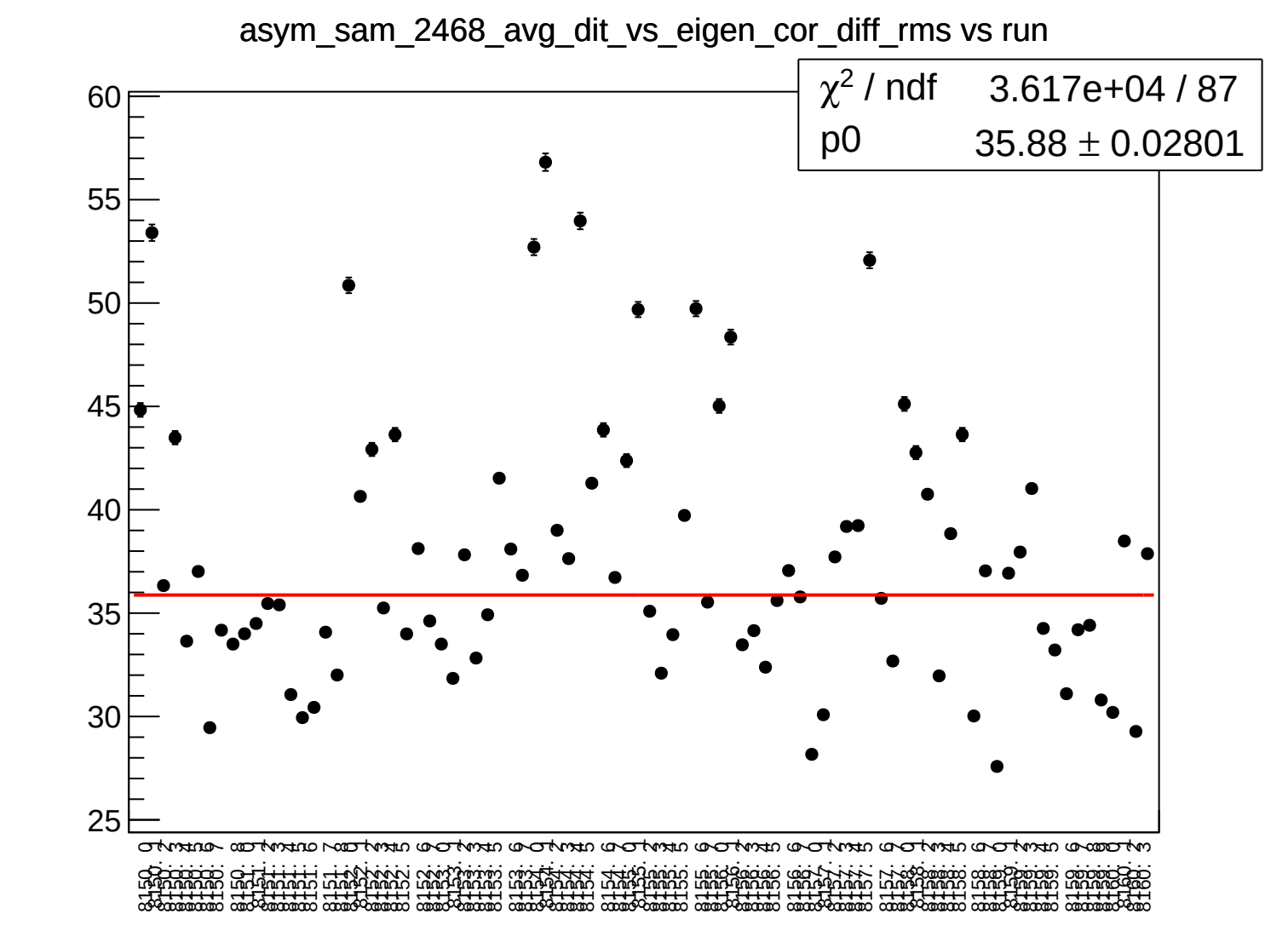

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.15 / 87
p0 −0.07593 ± 0.03961
pull
Entries 88
Mean 805.6
Std Dev 0

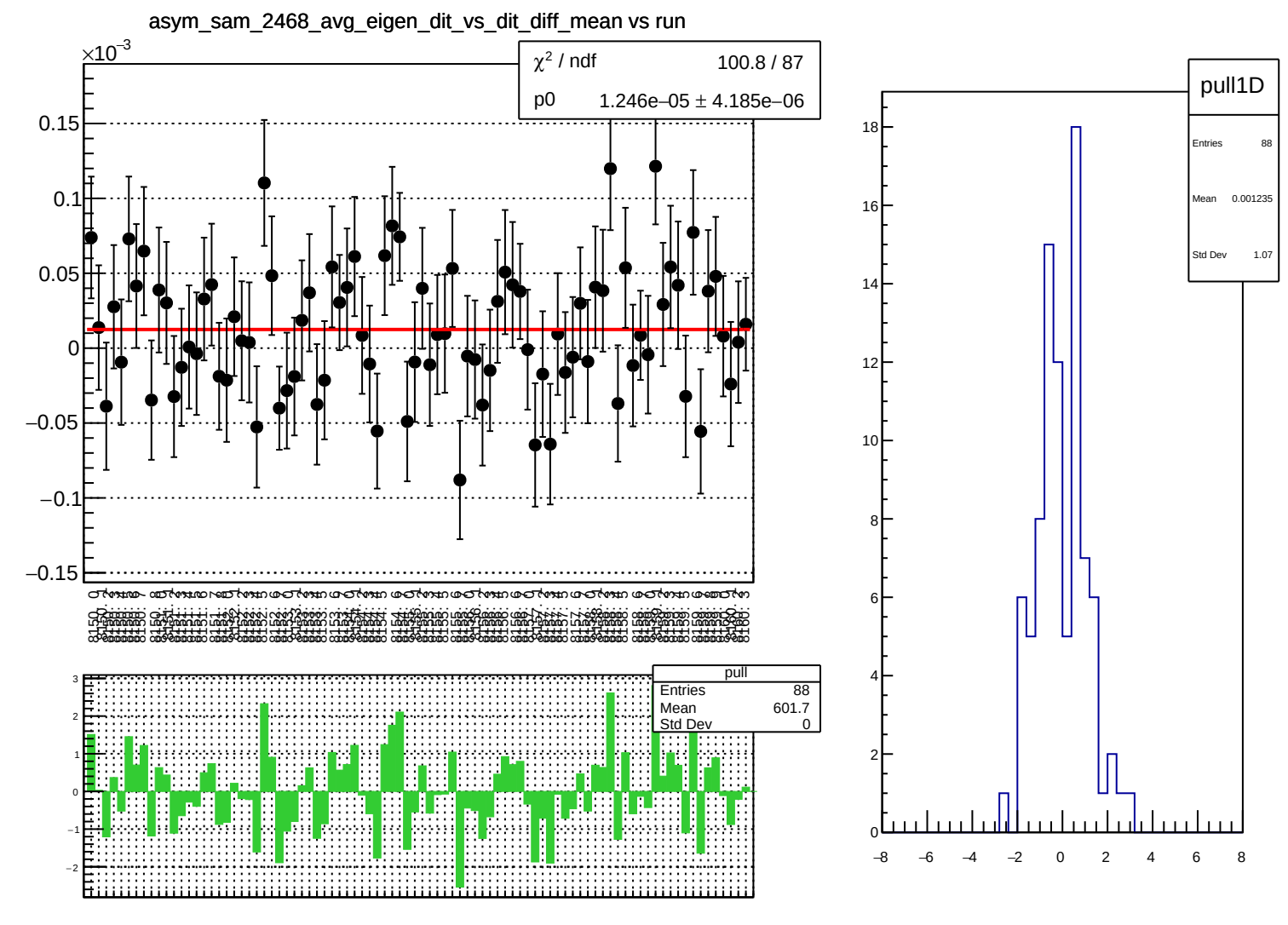

pull1D
Entries 88
Mean 0.001873
Std Dev 1.001

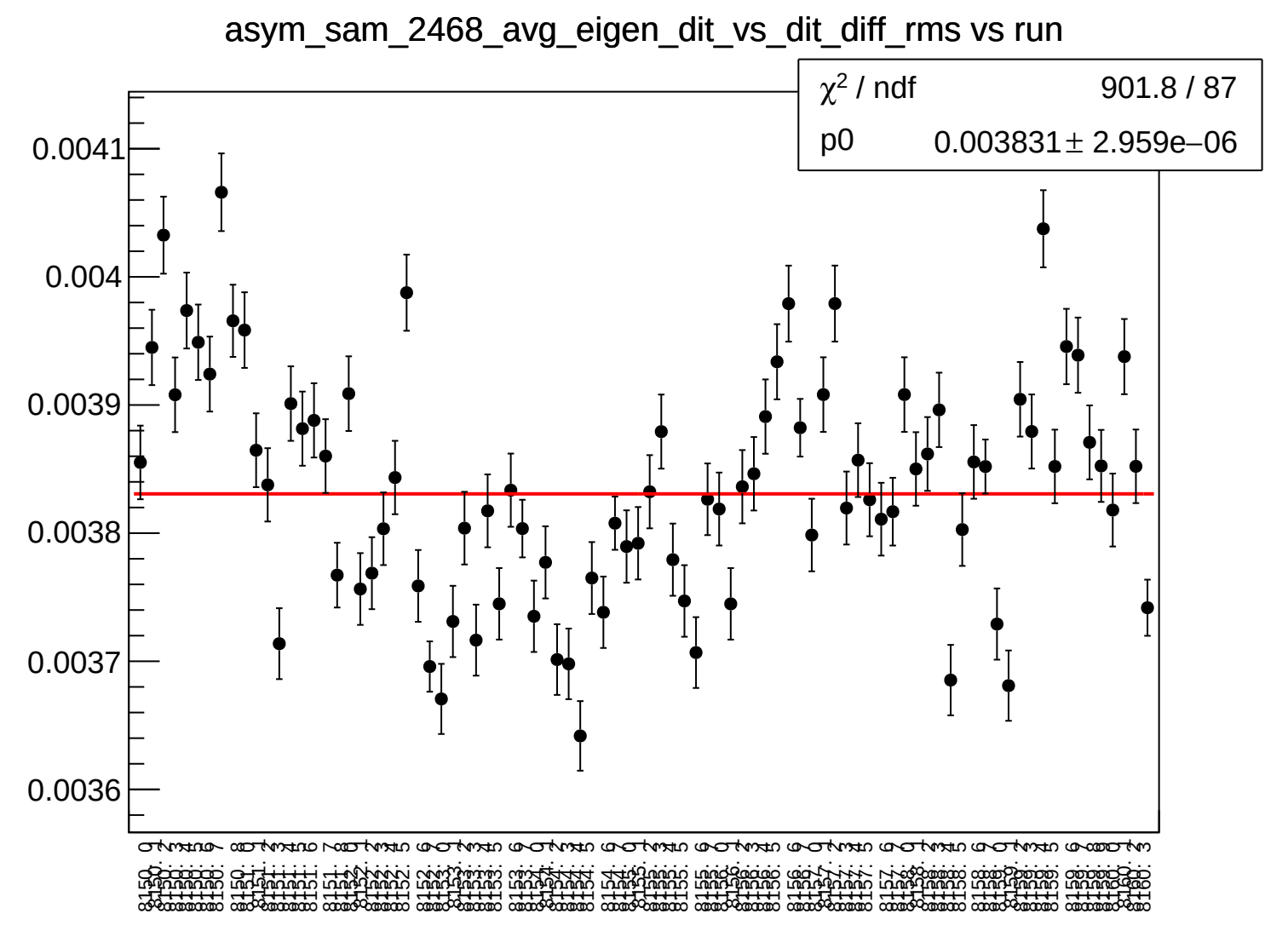

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ2 / ndf 3.617e+04 / 87
p0 35.88 ± 0.02801
60
55
50
45
40
35
30
25

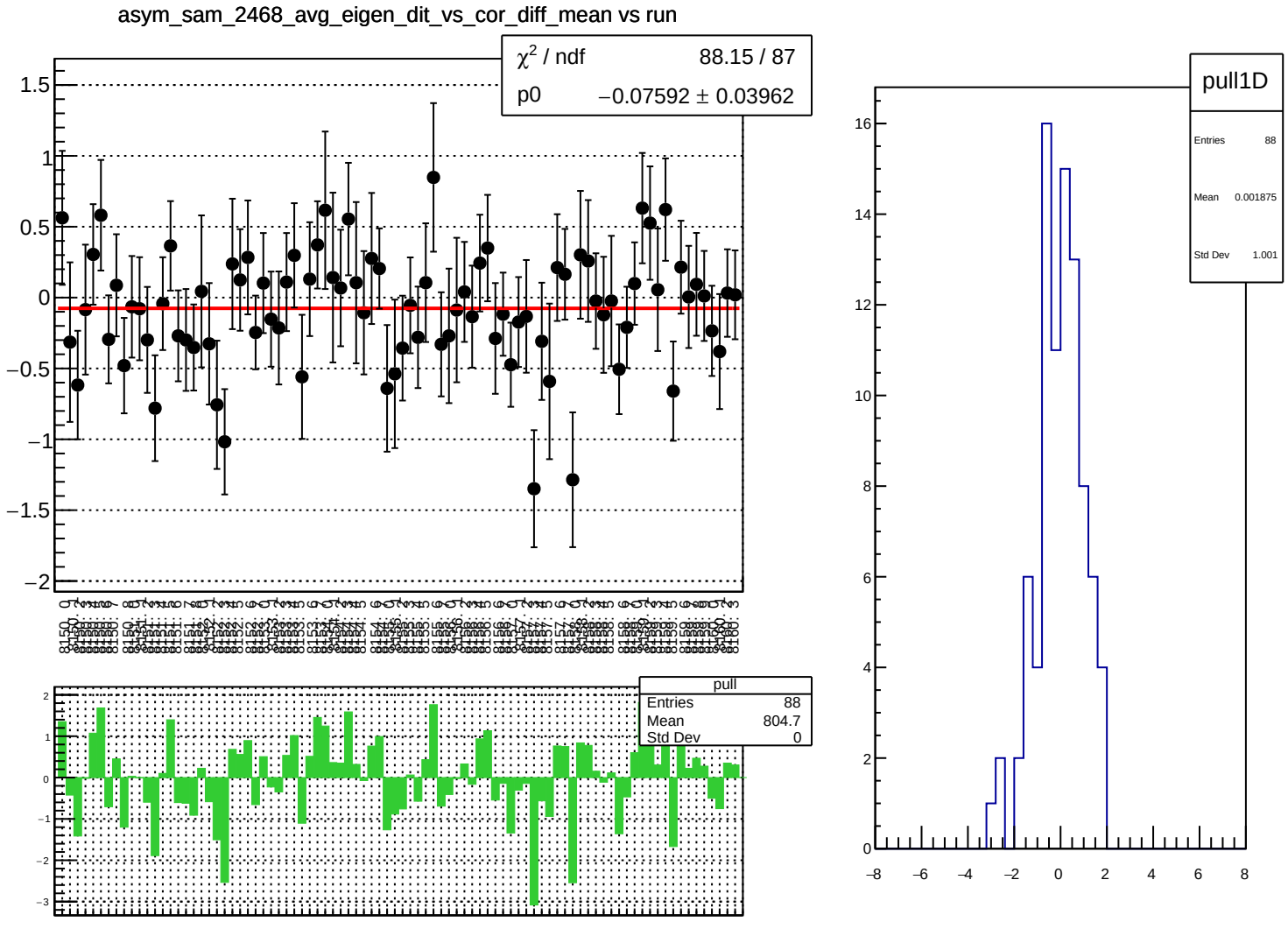

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.15 / 87
p0 −0.07593 ± 0.03961
pull
Entries 88
Mean 805.6
Std Dev 0

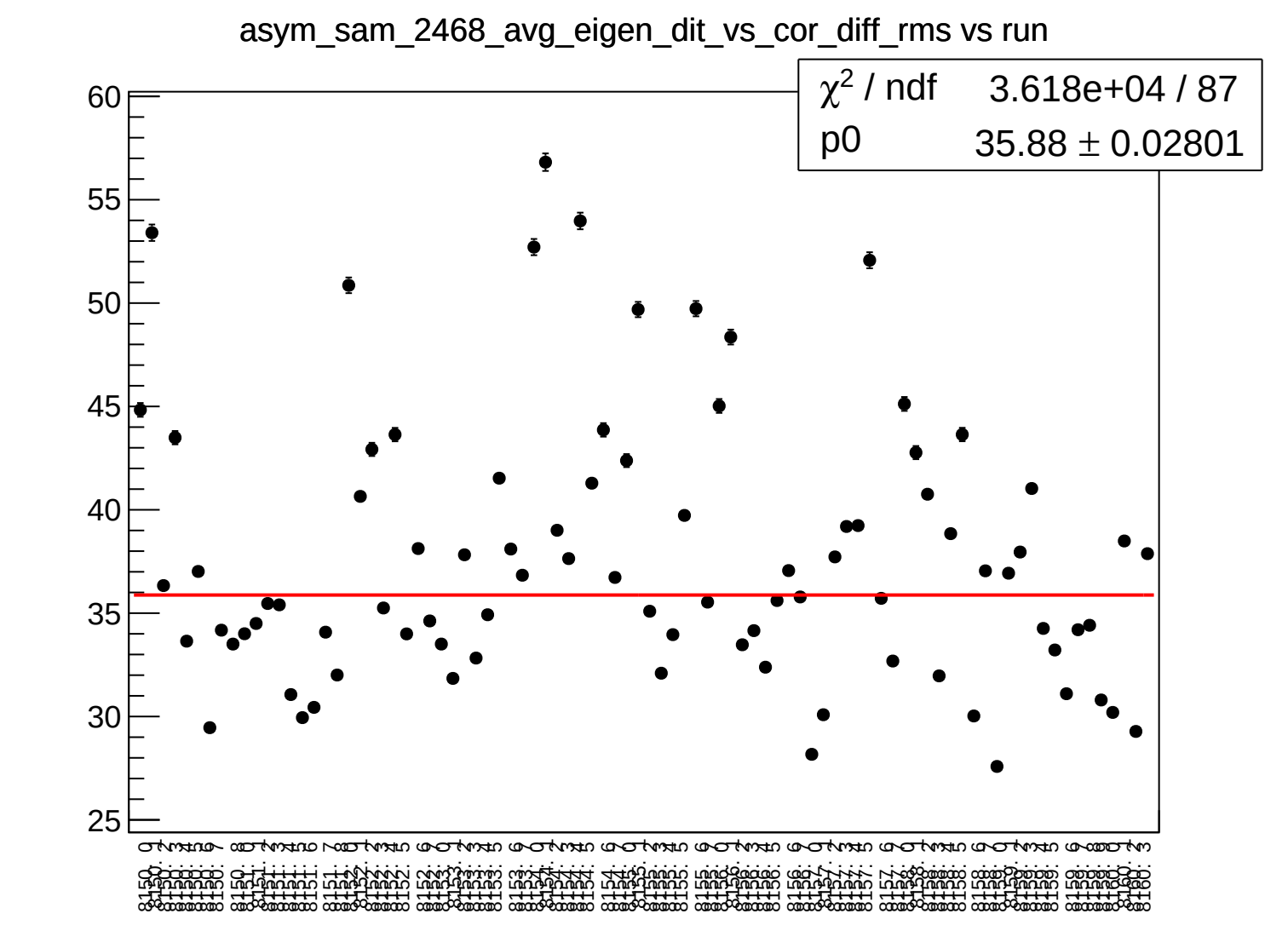

pull1D
Entries 88
Mean 0.001873
Std Dev 1.001

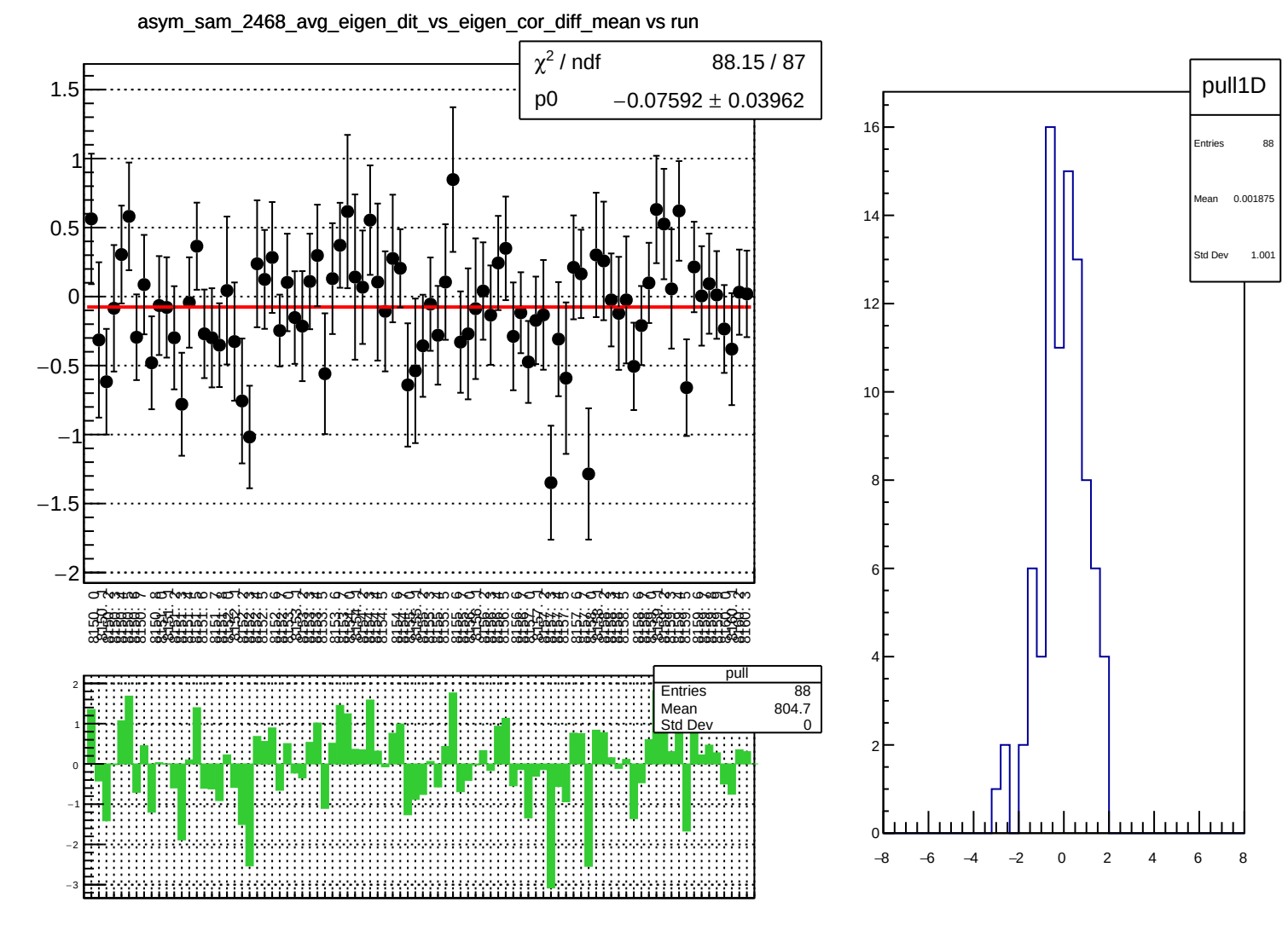

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.617e+04 / 87
p0 35.88 ± 0.02801
60
55
50
45
40
35
30
25

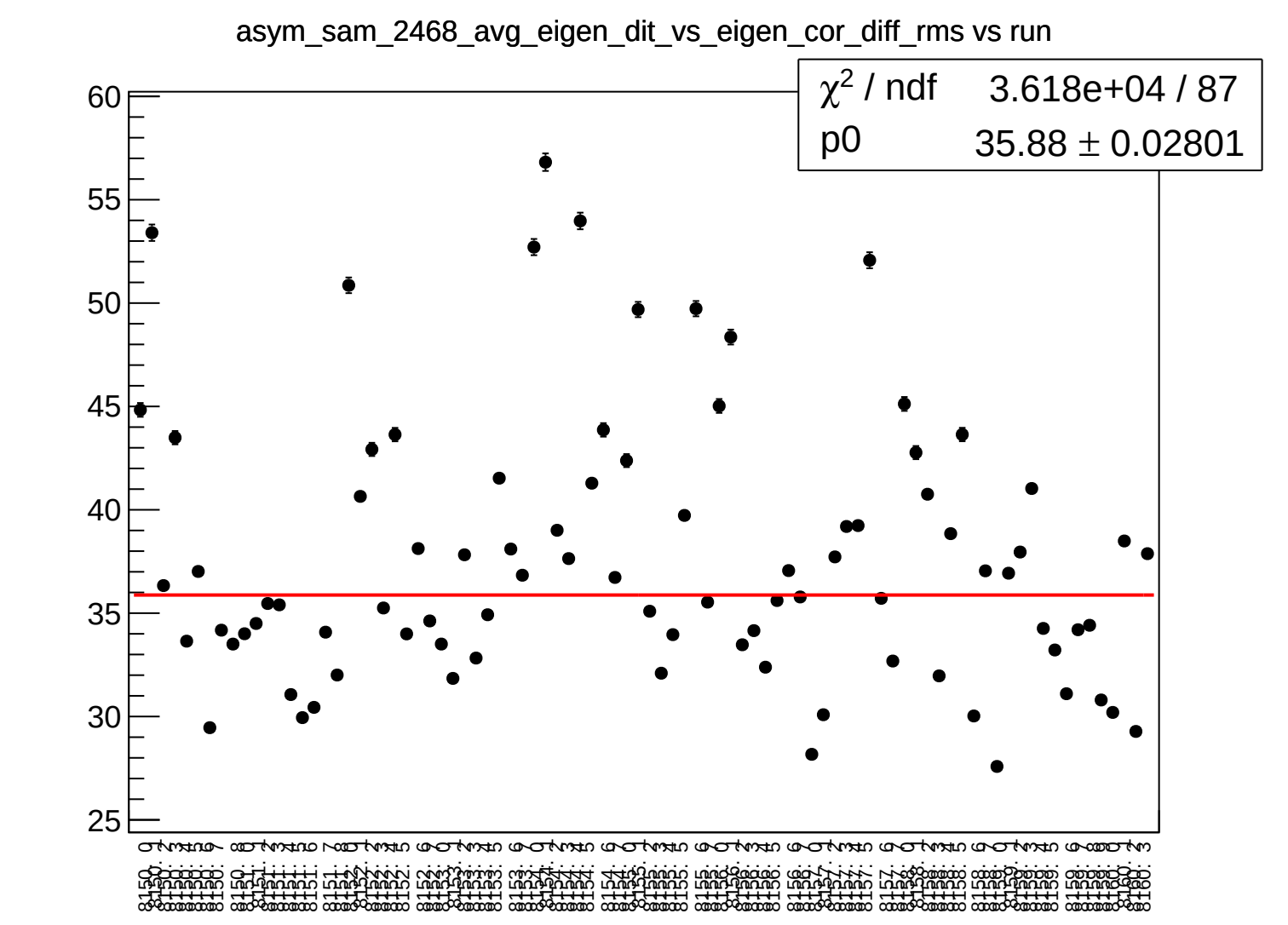

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.8 / 87
p0 1.246e−05 ± 4.185e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 601.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001235
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

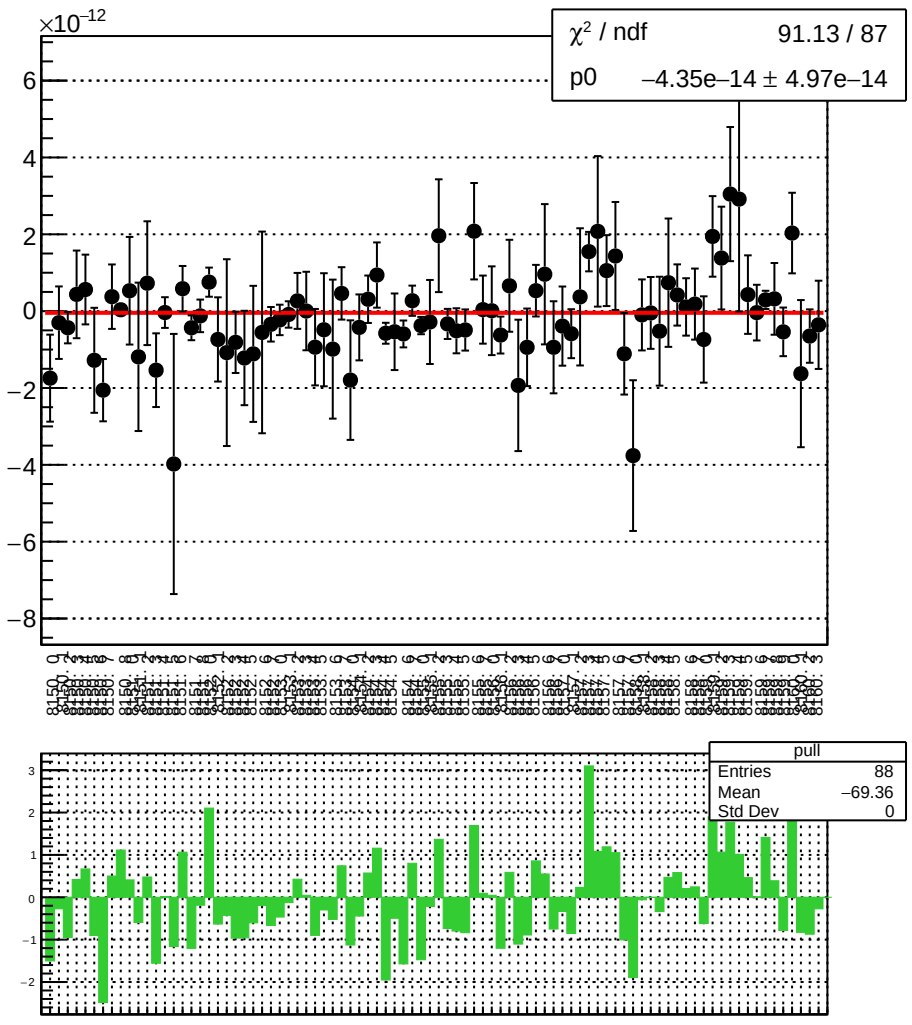

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 901.8 / 87
p0 0.003831 ± 2.959e−06
0.0041
0.004
0.0039
0.0038
0.0037
0.0036

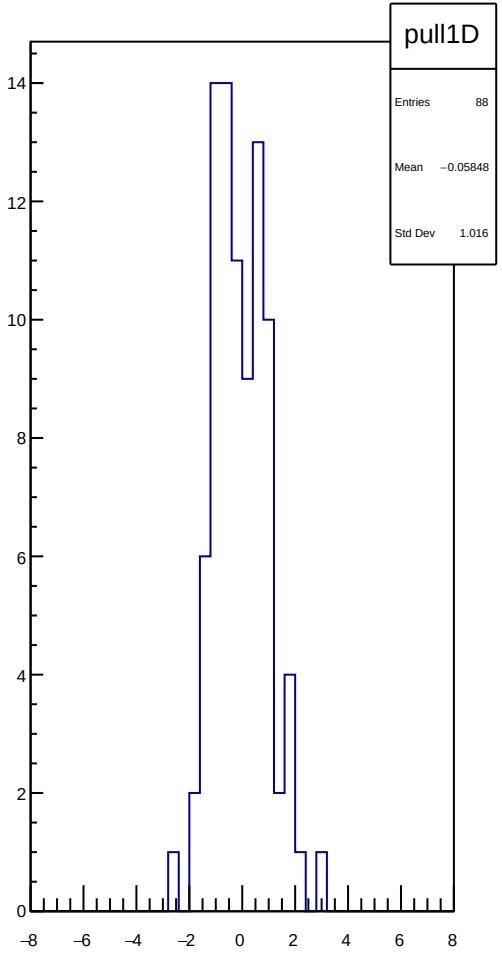

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.15 / 87
p0 −0.07592 ± 0.03962
pull
Entries 88
Mean 804.7
Std Dev 0
pull1D
Entries 88
Mean 0.001875
Std Dev 1.001

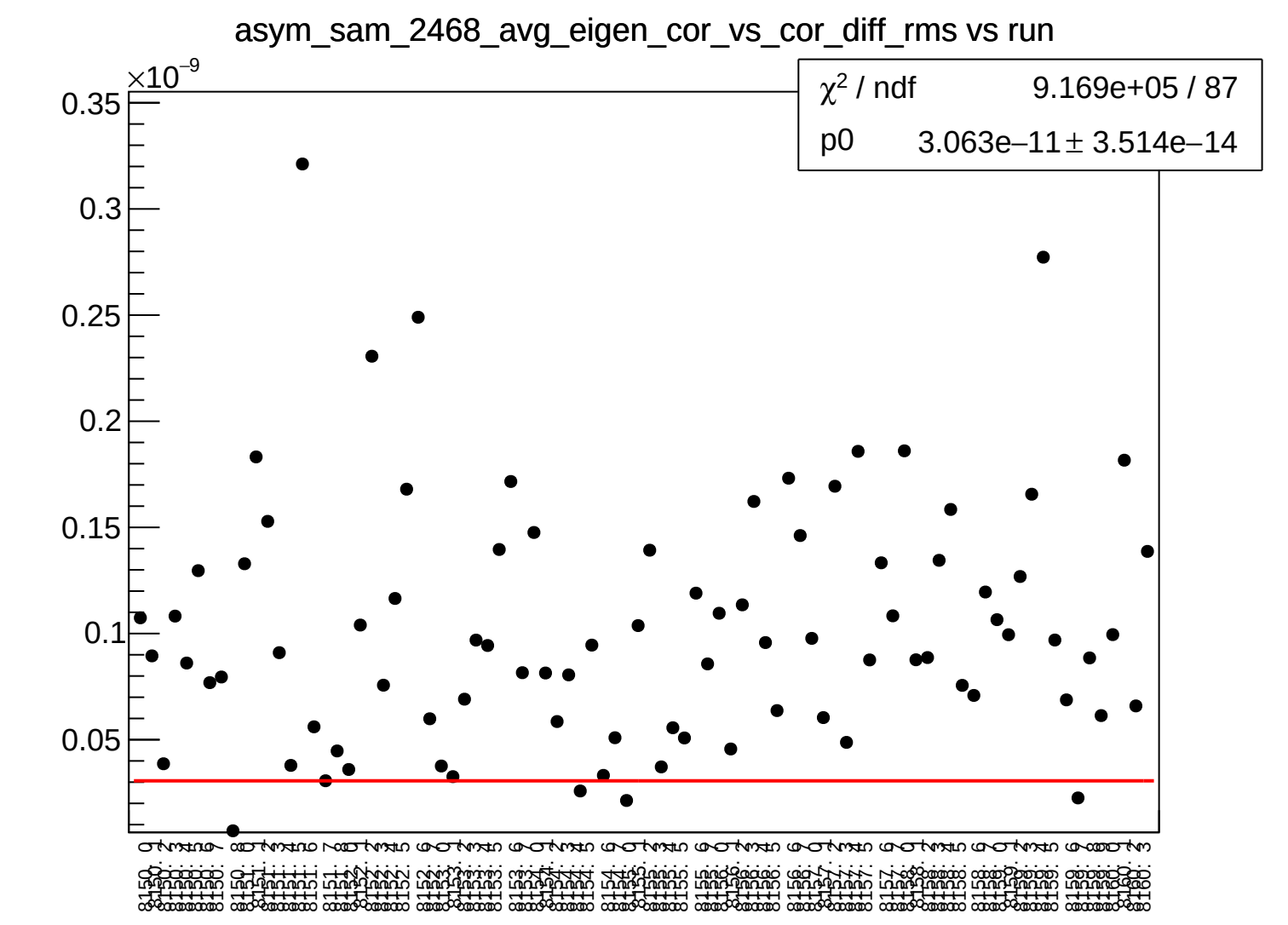

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.618e+04 / 87
p0 35.88 ± 0.02801
60
55
50
45
40
35
30
25

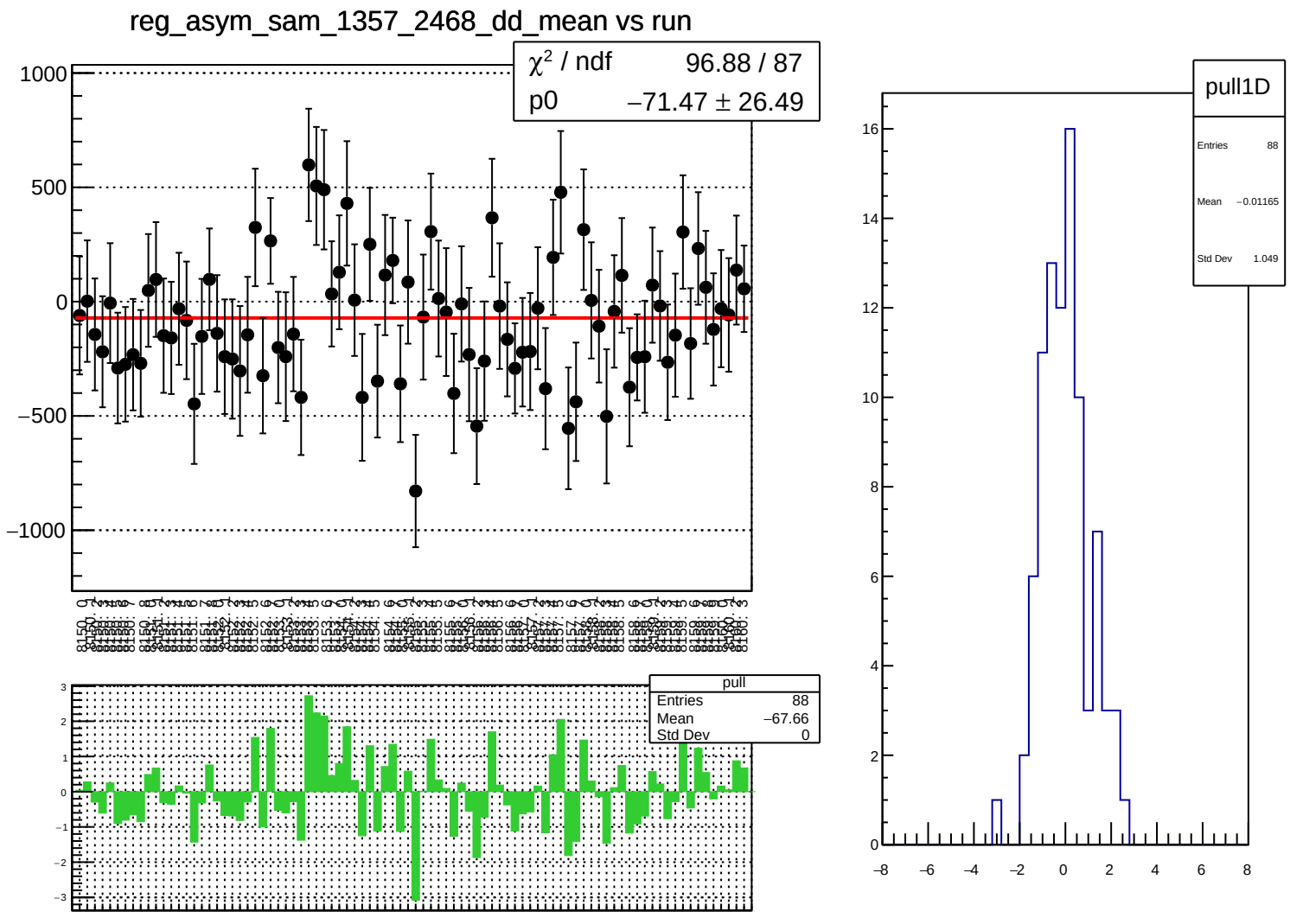

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.15 / 87
p0 −0.07592 ± 0.03962
pull
Entries 88
Mean 804.7
Std Dev 0
pull1D
Entries 88
Mean 0.001875
Std Dev 1.001

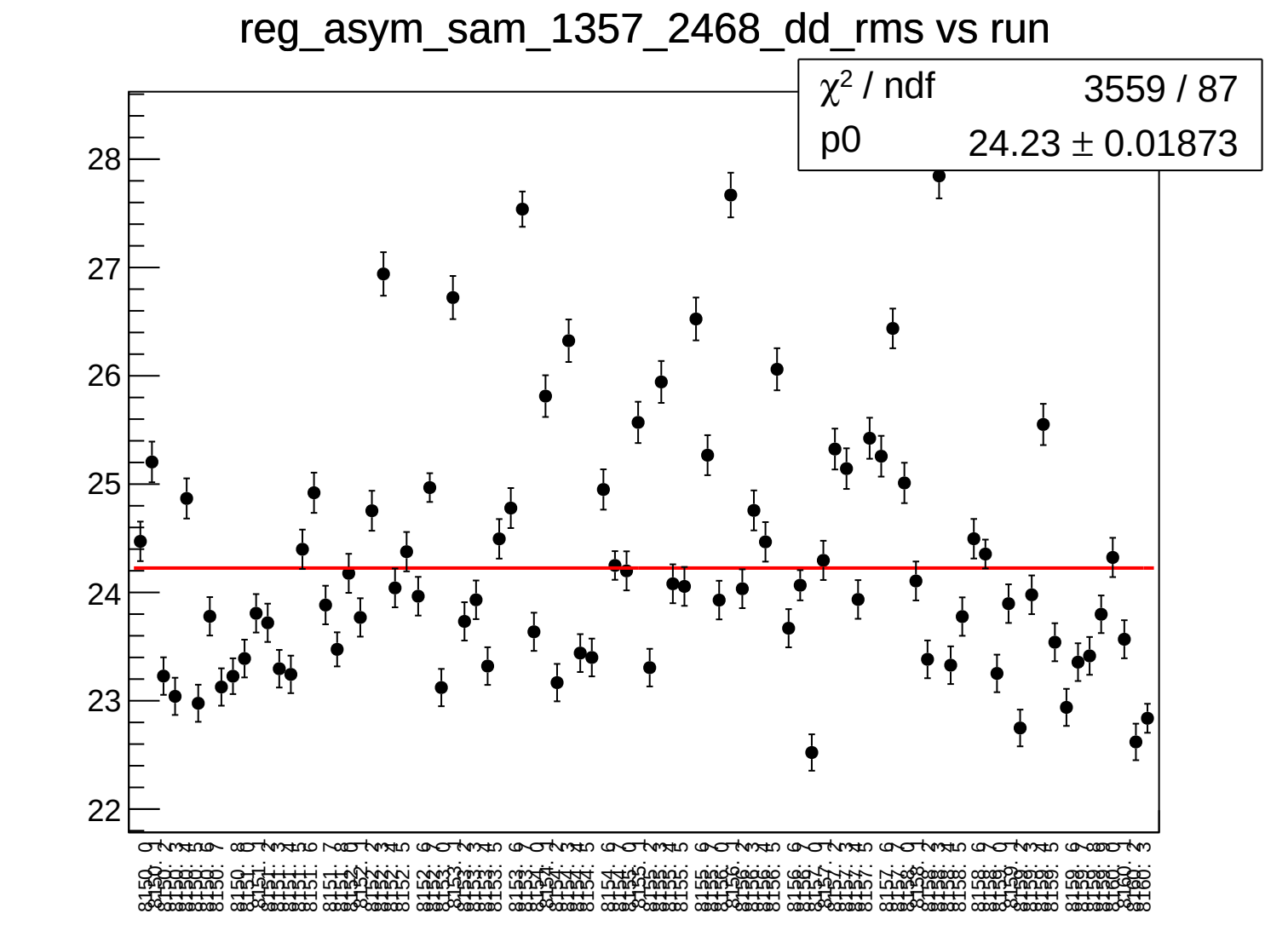

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.618e+04 / 87
p0 35.88 ± 0.02801
60
55
50
45
40
35
30
25

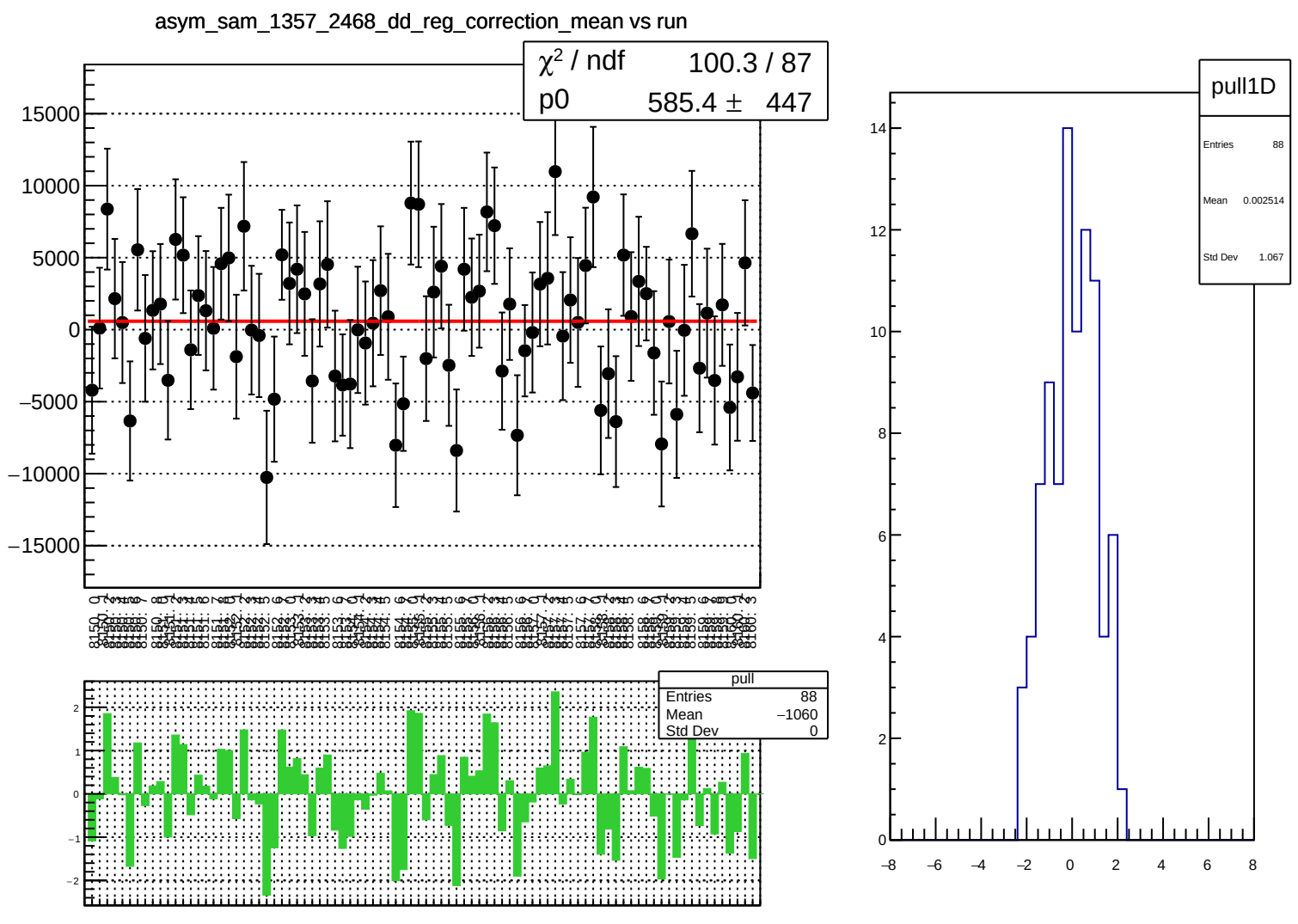

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.13 / 87
p0 −4.35e−14 ± 4.97e−14
pull
Entries 88
Mean −69.36
Std Dev 0

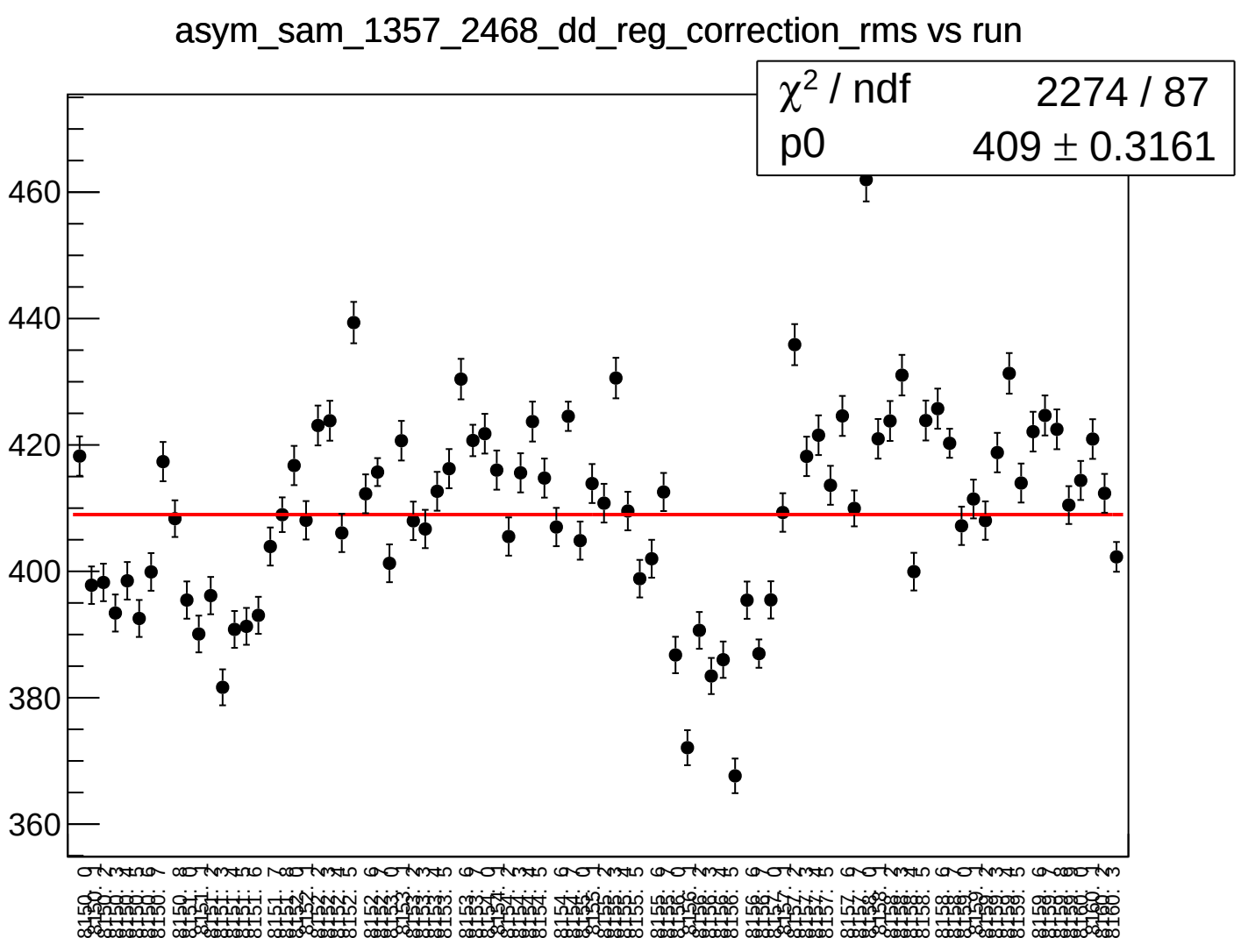

pull1D
Entries 88
Mean −0.05848
Std Dev 1.016

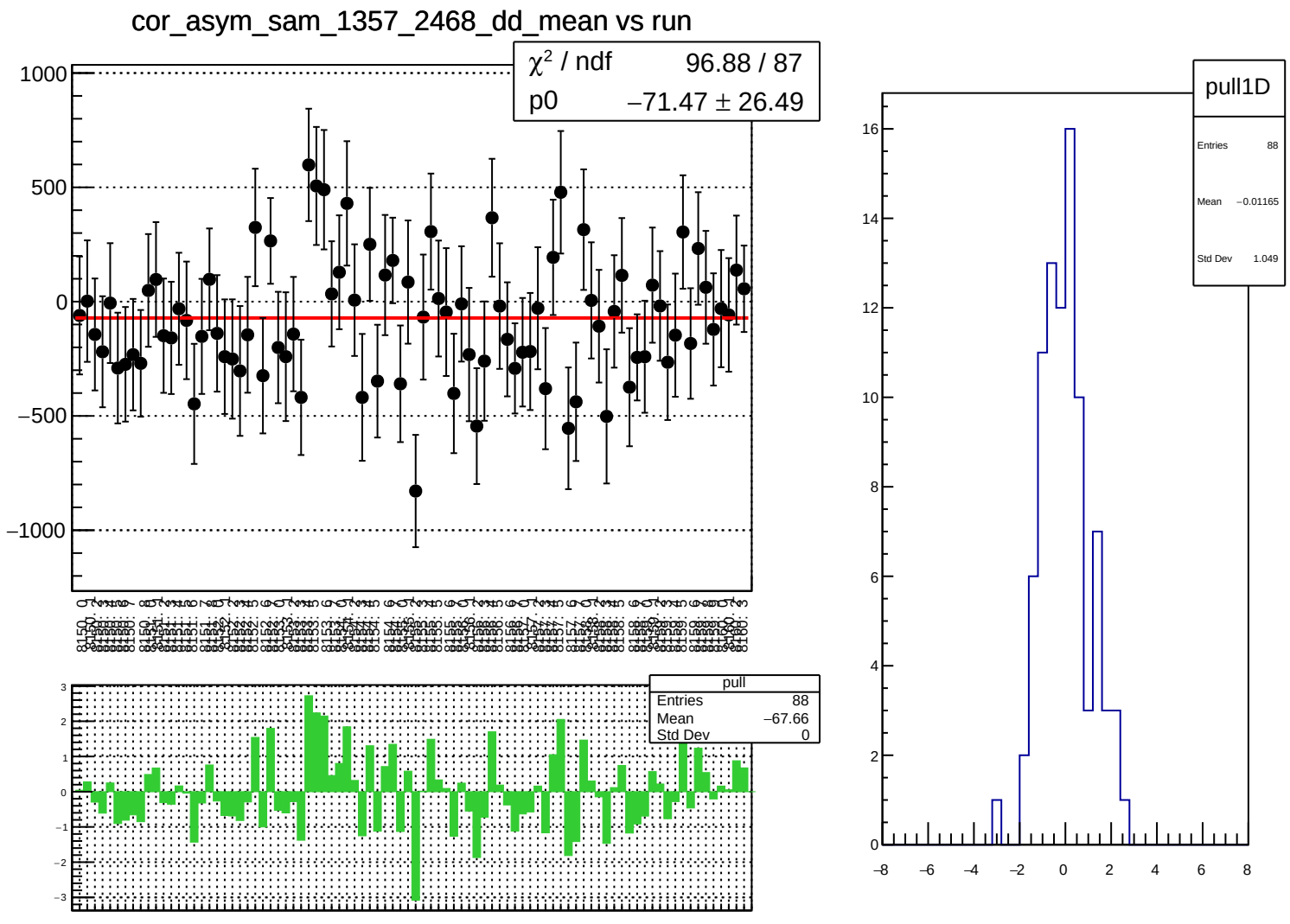

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.169e+05 / 87
p0 3.063e−11 ± 3.514e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

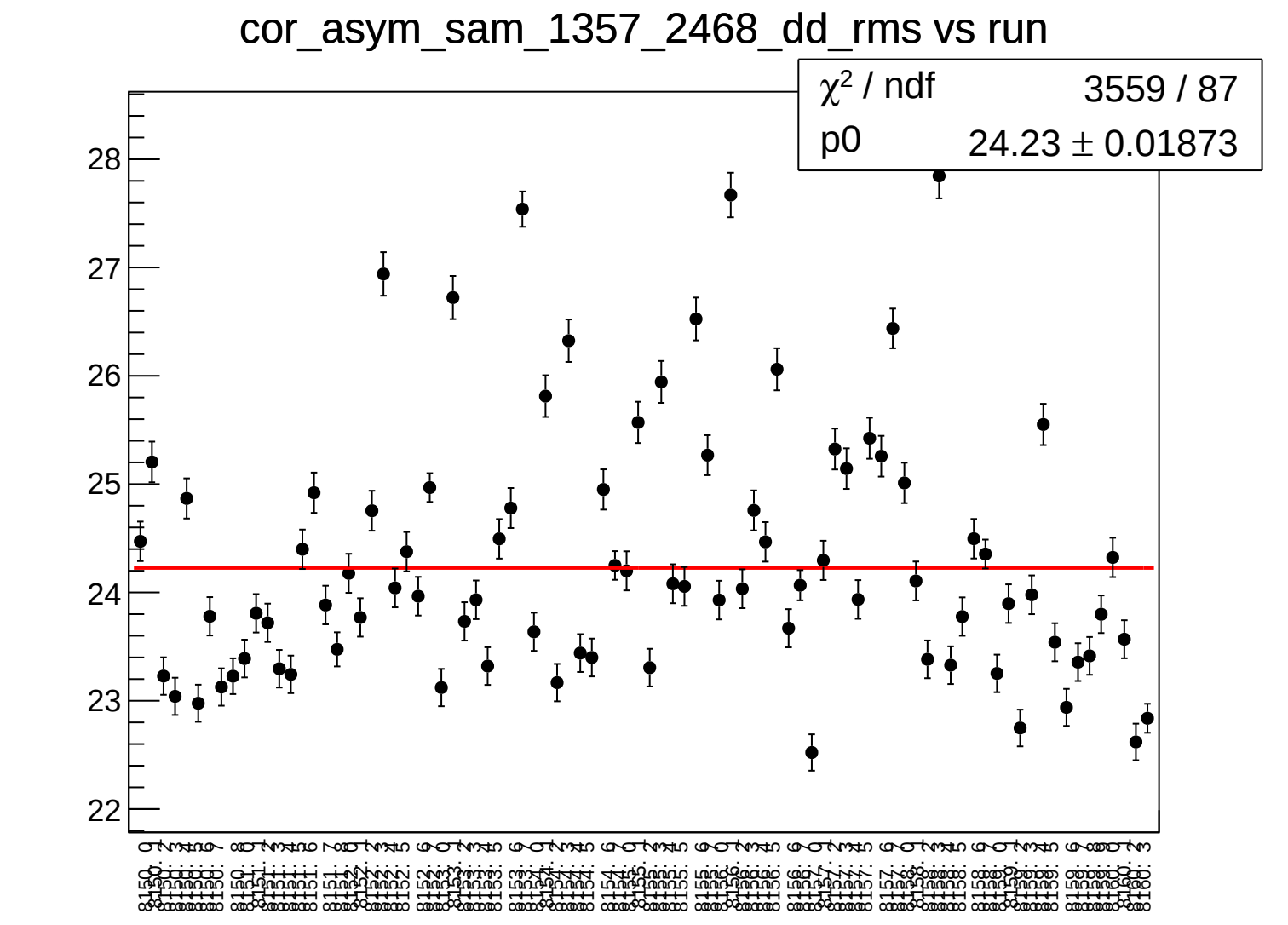

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 96.88 / 87
p0 −71.47 ± 26.49
1000
500
0
−500
−1000
pull
Entries 88
Mean −67.66
Std Dev 0
pull1D
Entries 88
Mean −0.01165
Std Dev 1.049

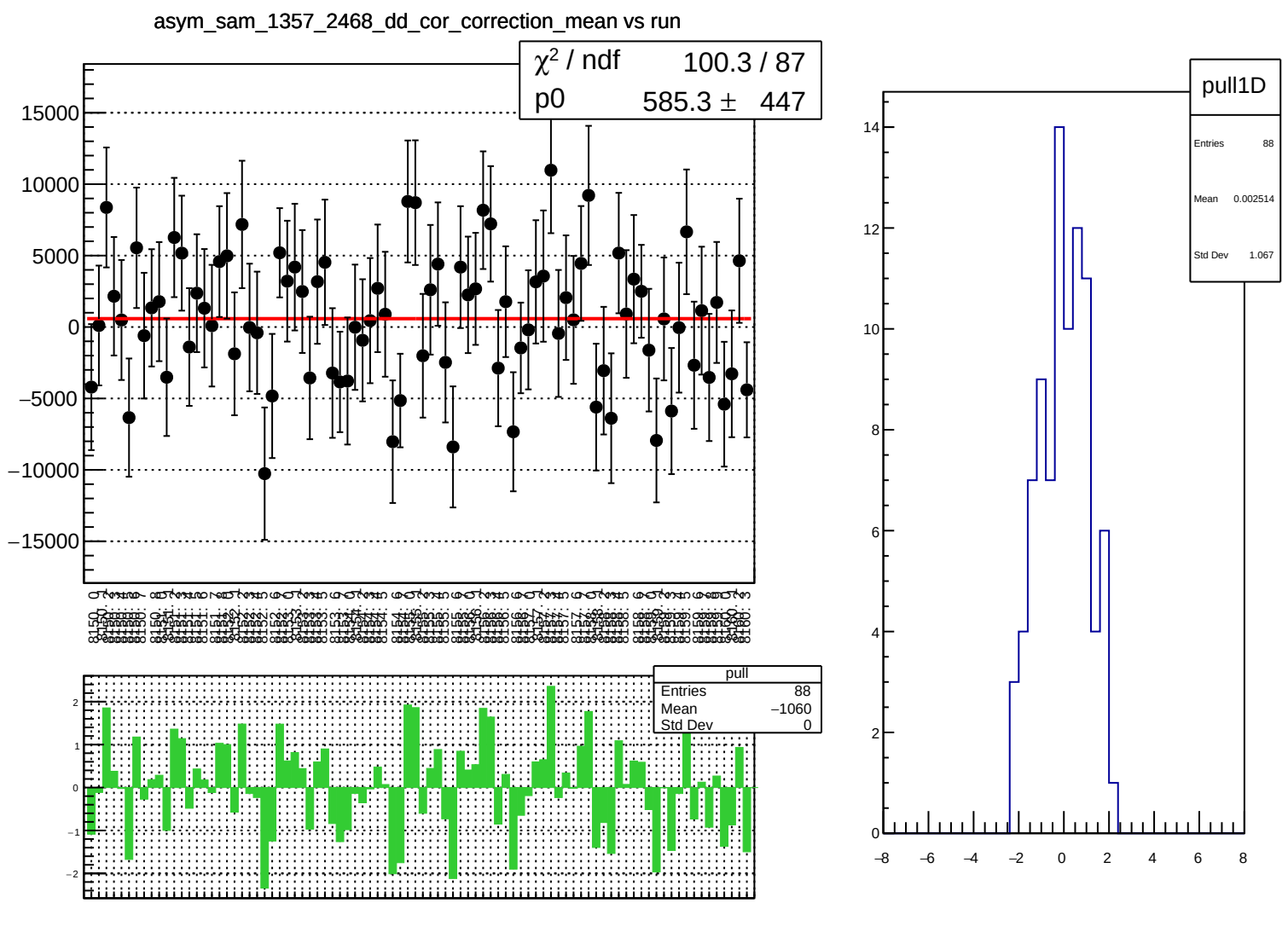

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3559 / 87
p0 24.23 ± 0.01873
28
27
26
25
24
23
22

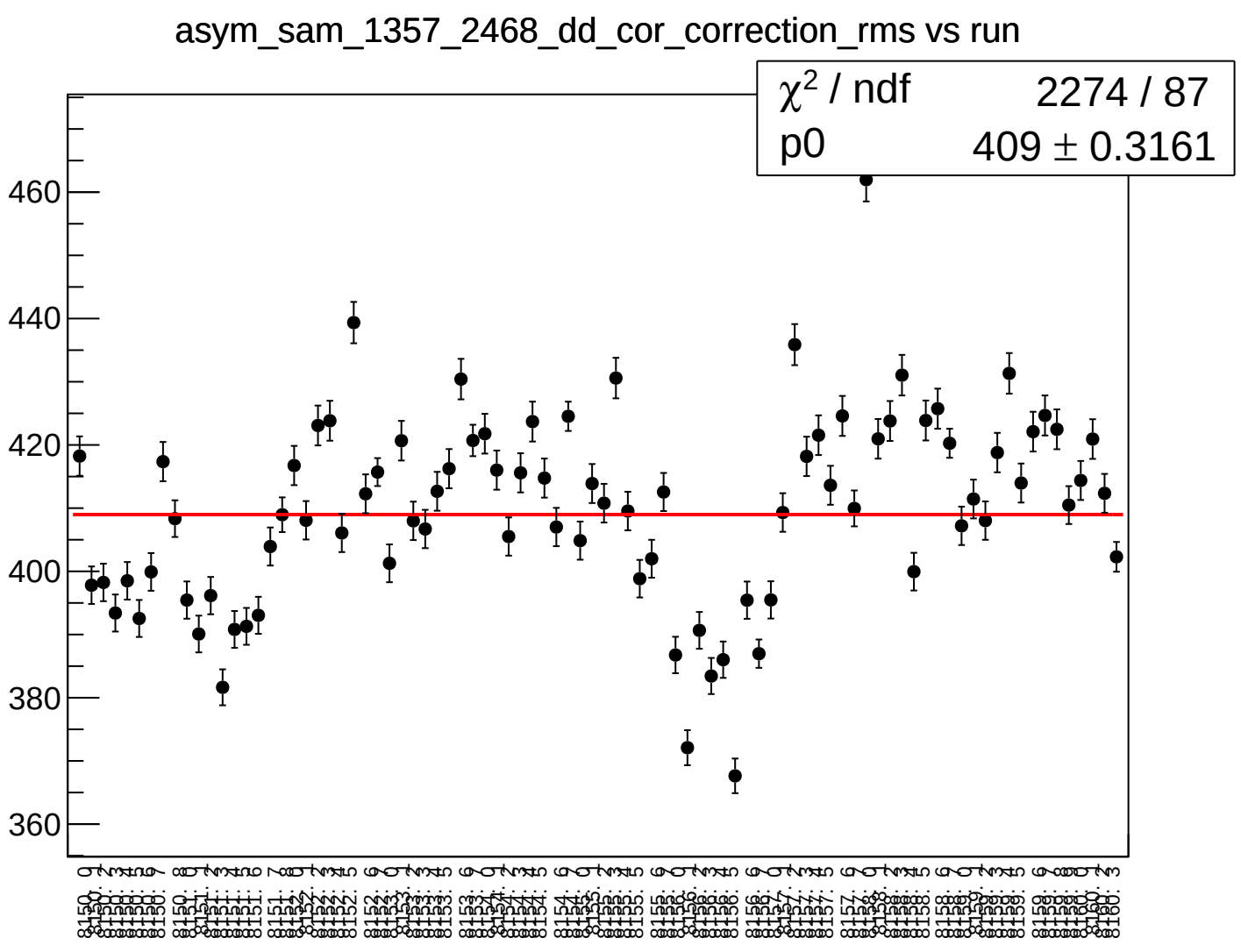

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 100.3 / 87
p0 585.4 ± 447
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1060
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.002514
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

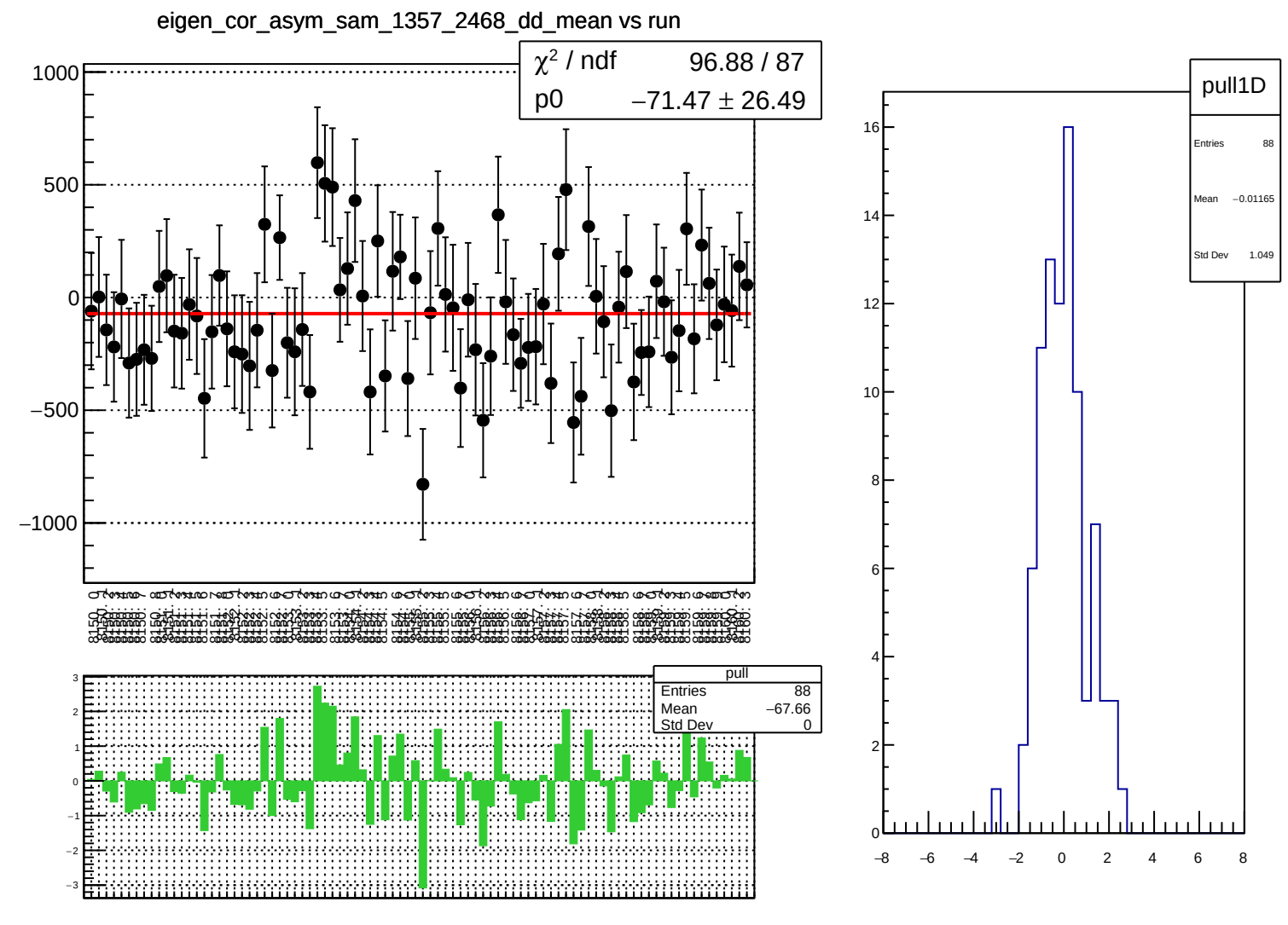

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 2274 / 87
p0 409 ± 0.3161
460
440
420
400
380
360

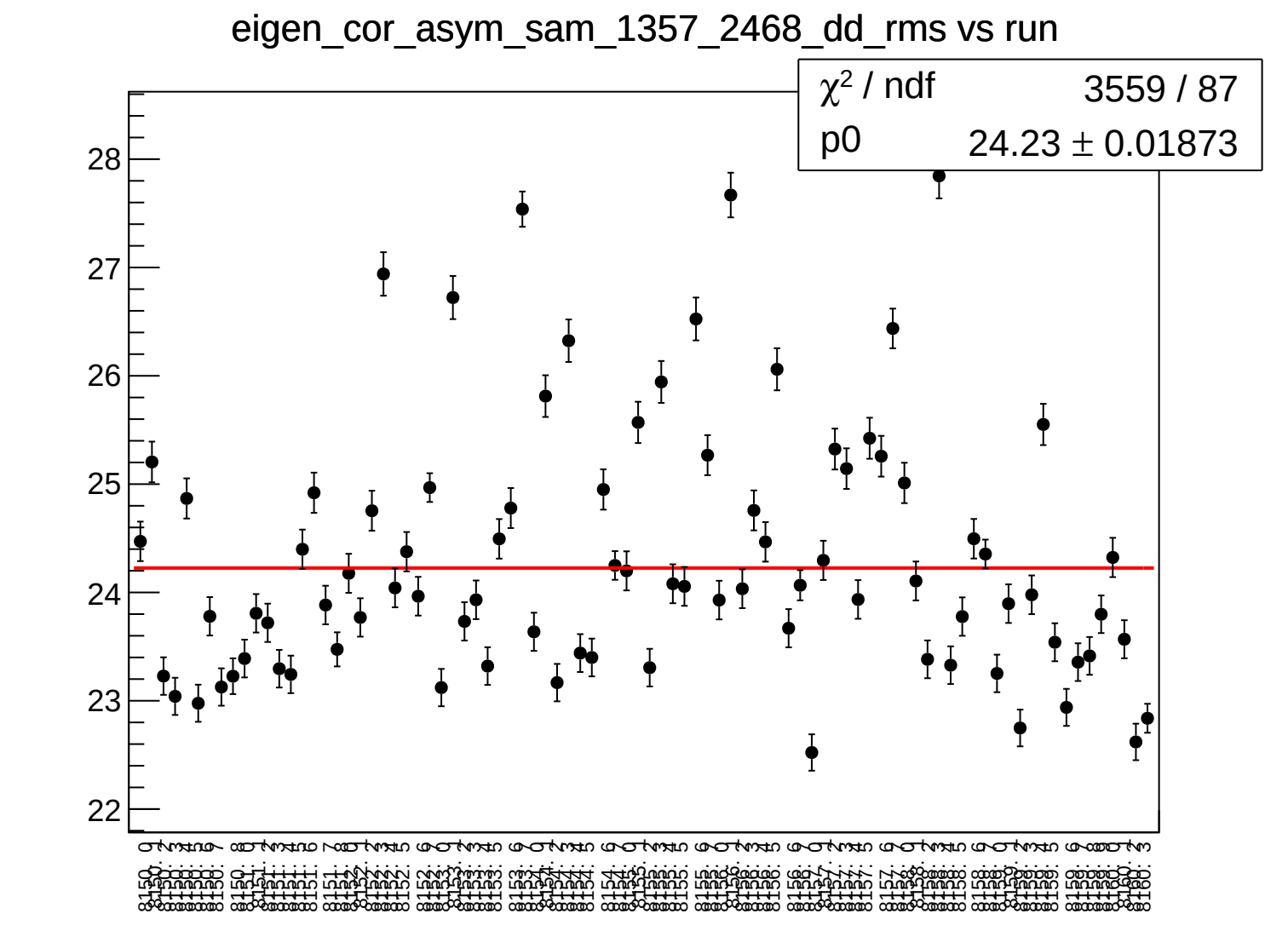

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 96.88 / 87
p0 −71.47 ± 26.49
1000
500
0
−500
−1000
pull
Entries 88
Mean −67.66
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01165
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

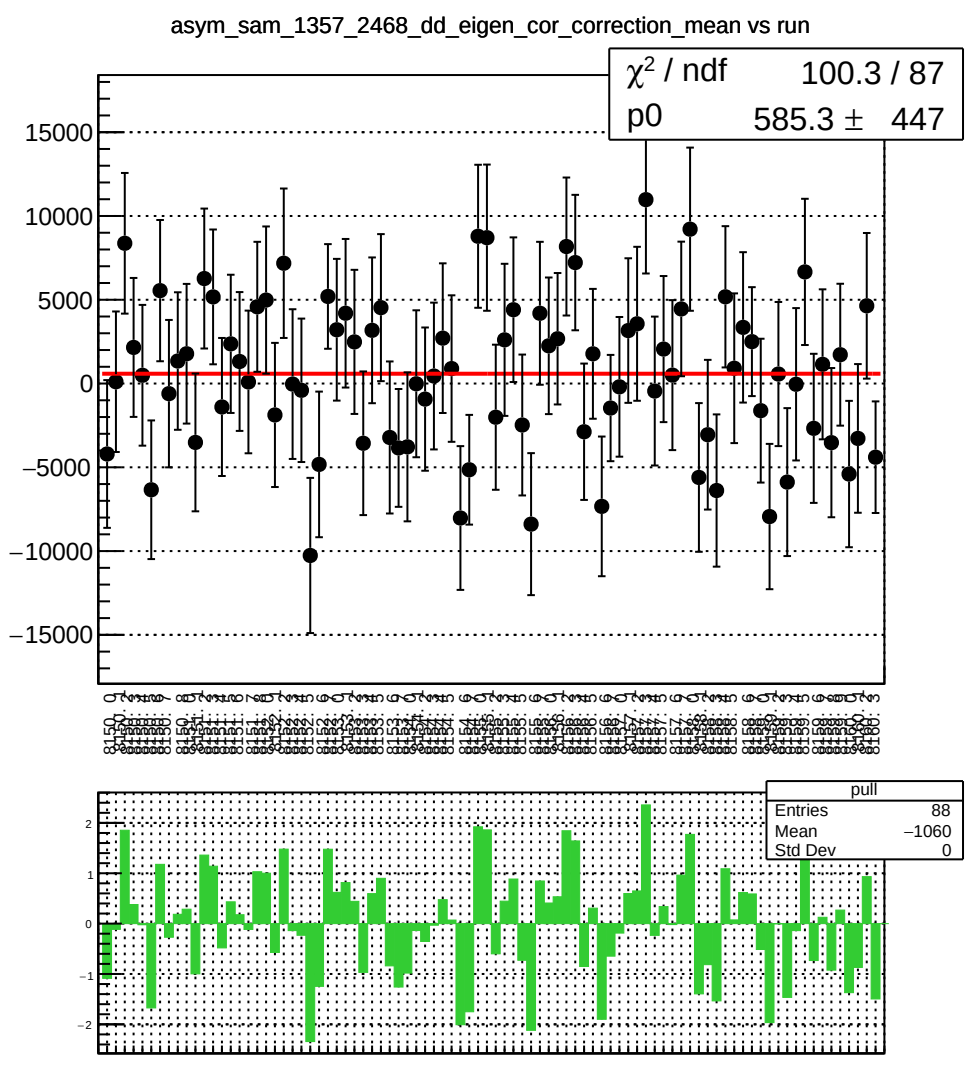

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3559 / 87
p0 24.23 ± 0.01873
28
27
26
25
24
23
22

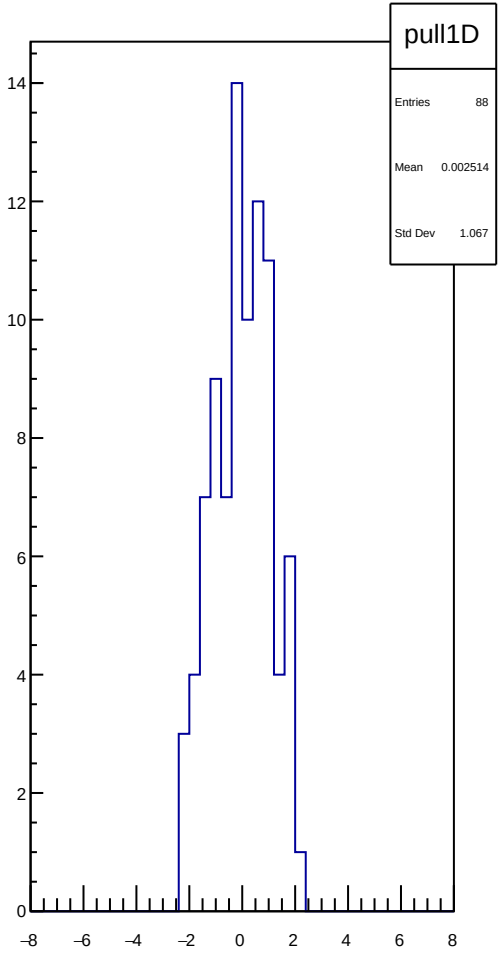

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 100.3 / 87
p0 585.3 ± 447
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1060
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.002514
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

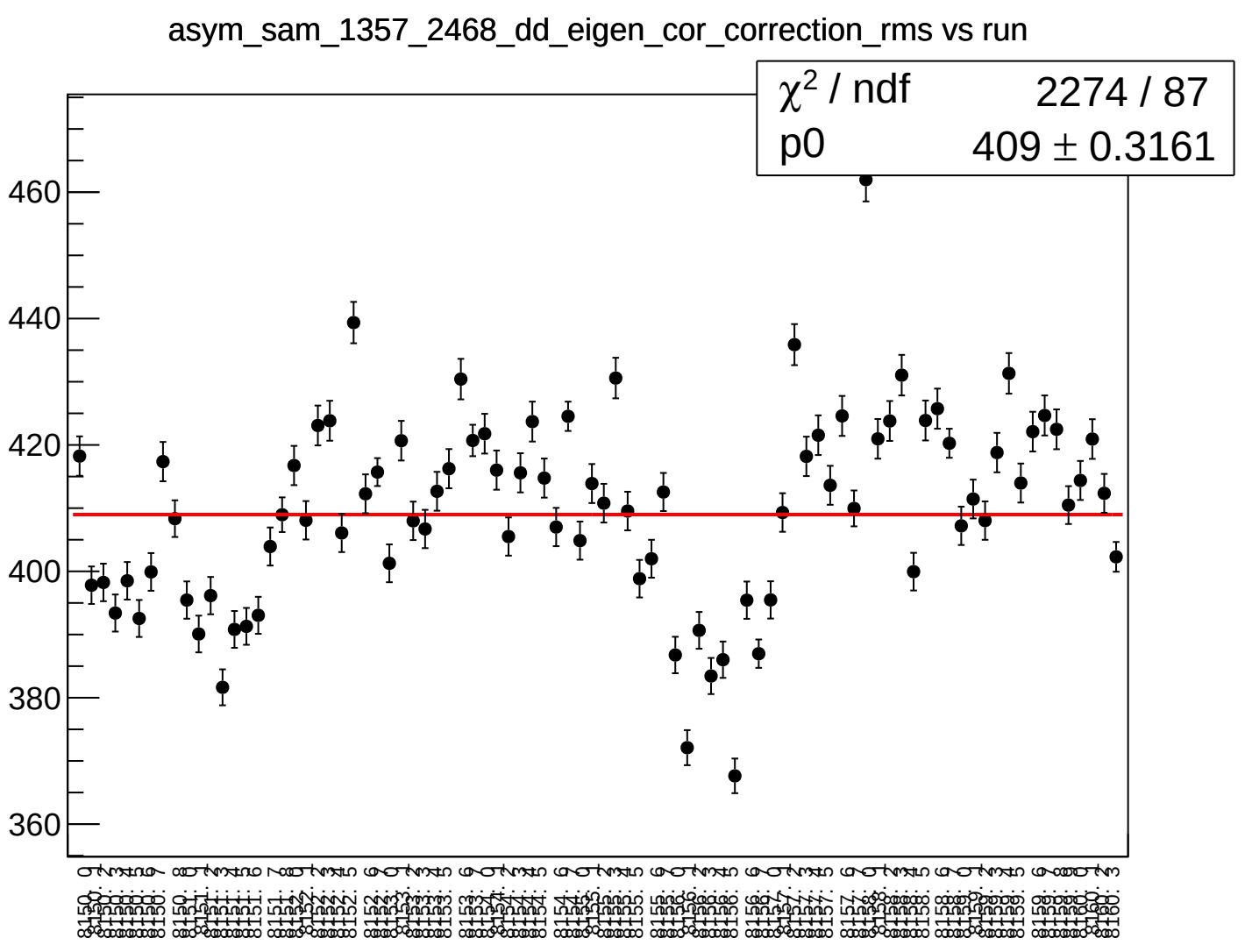

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 2274 / 87
p0 409 ± 0.3161
460
440
420
400
380
360

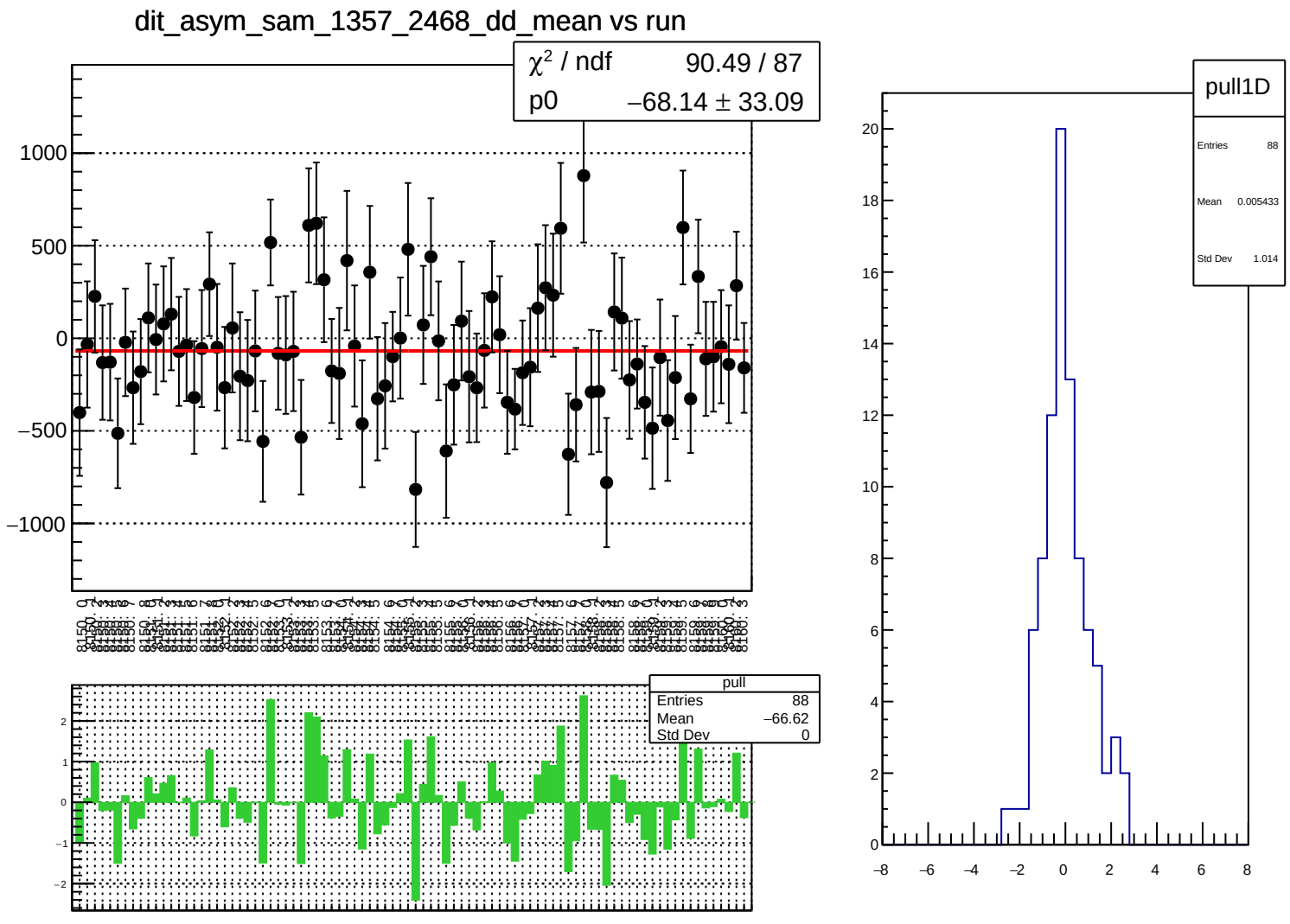

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 96.88 / 87
p0 −71.47 ± 26.49
1000
500
0
−500
−1000
pull
Entries 88
Mean −67.66
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01165
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

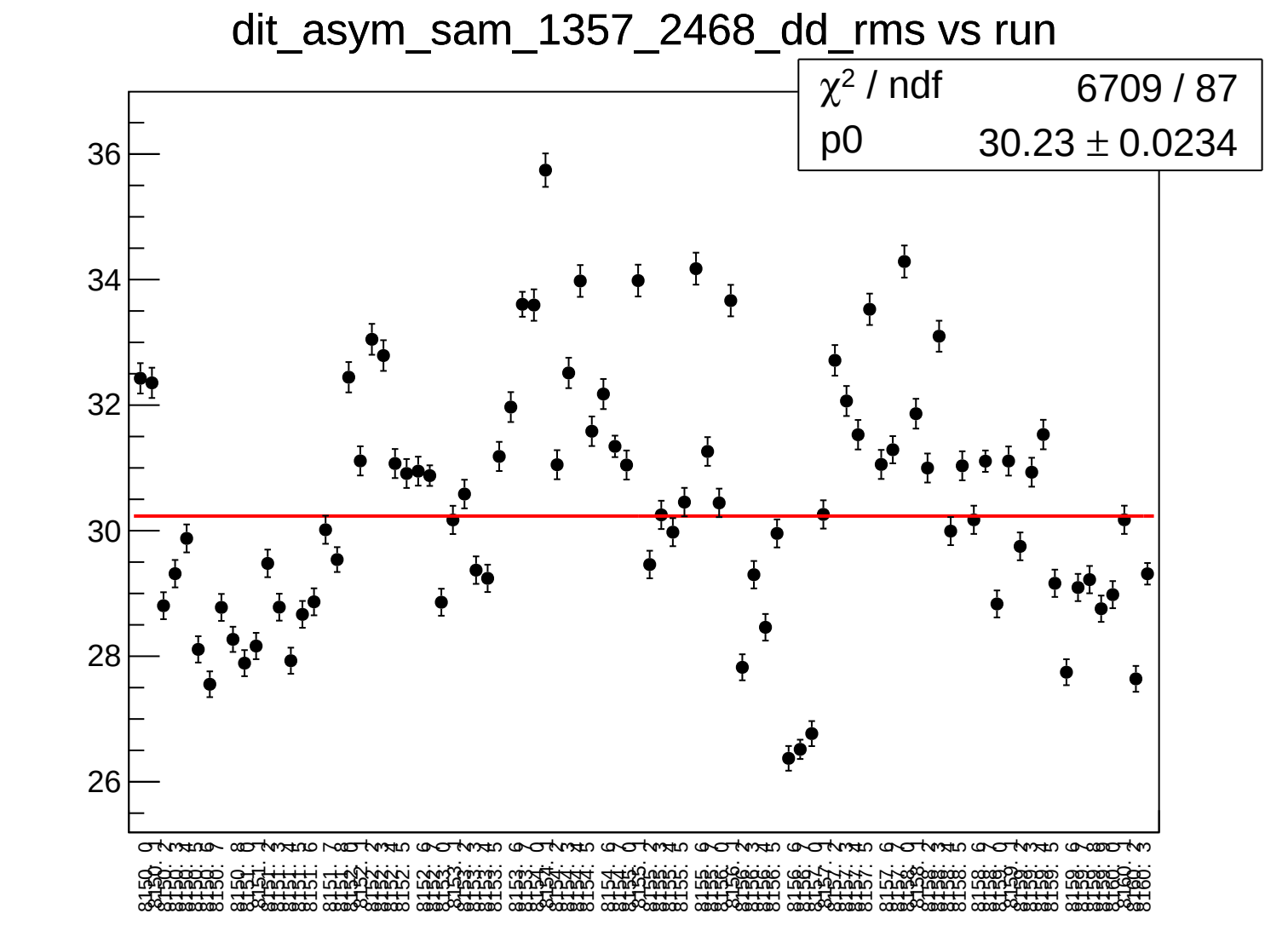

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3559 / 87
p0 24.23 ± 0.01873
28
27
26
25
24
23
22

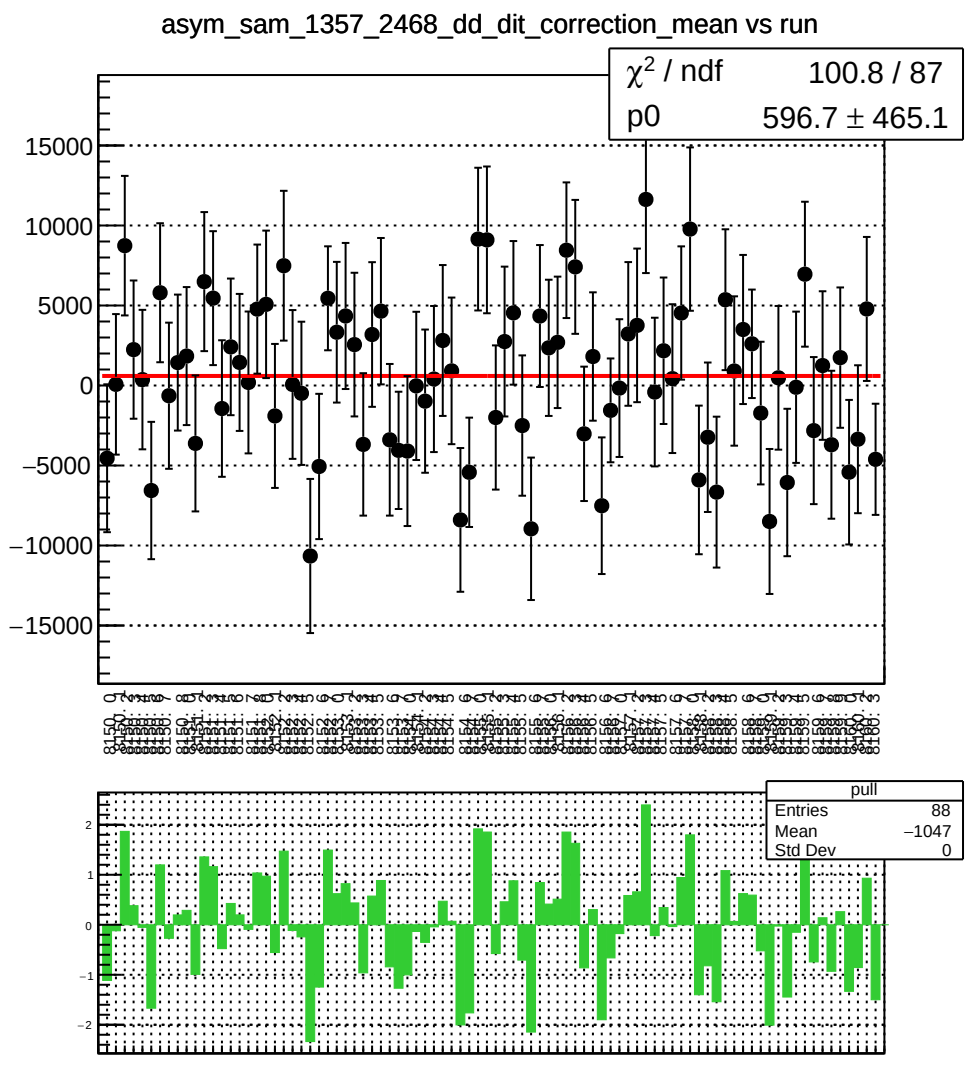

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.3 / 87
p0 585.3 ± 447
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1060
Std Dev 0
2
1
0
−1
−2

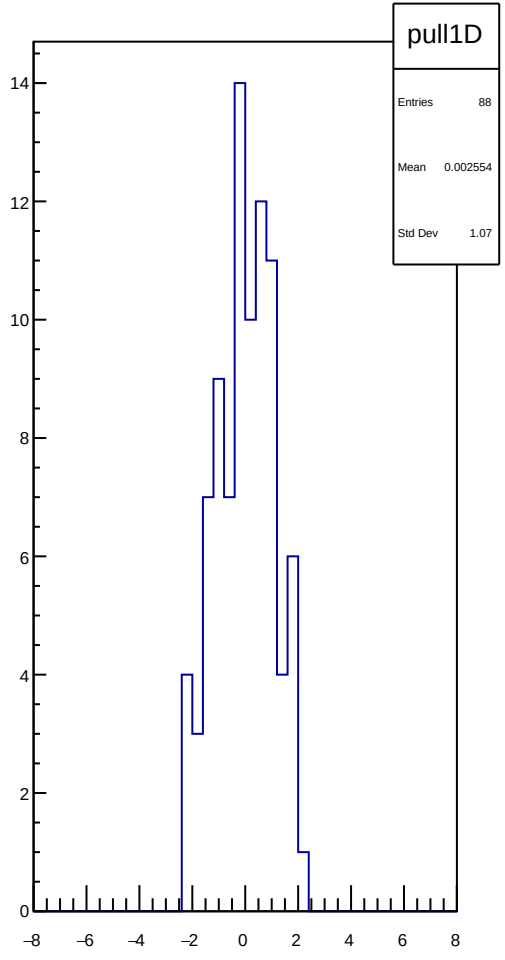

pull1D
Entries 88
Mean 0.002514
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

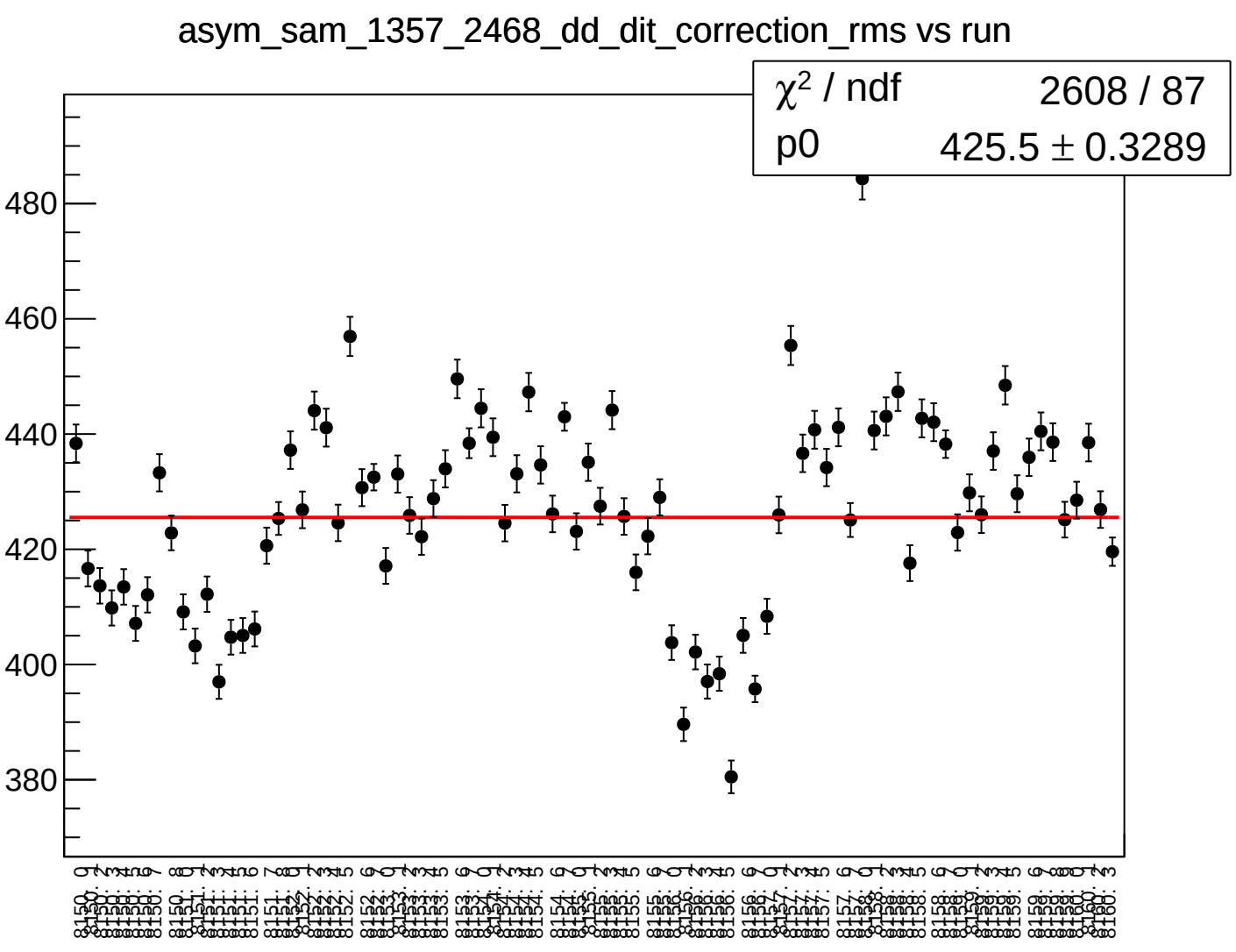

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 2274 / 87
p0 409 ± 0.3161
460
440
420
400
380
360

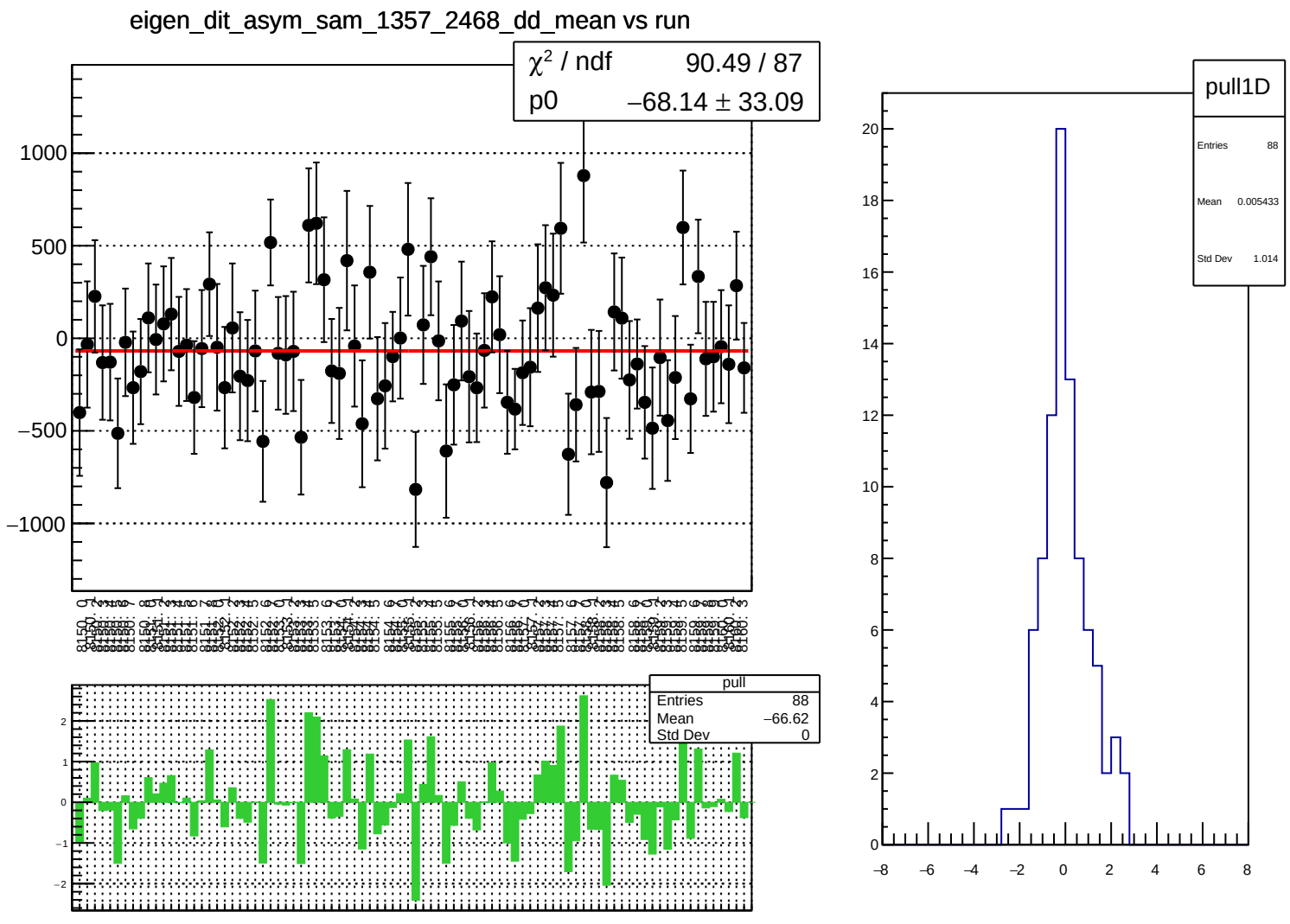

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 90.49 / 87
p0 −68.14 ± 33.09
1000
500
0
−500
−1000
pull
Entries 88
Mean −66.62
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.005433
Std Dev 1.014
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

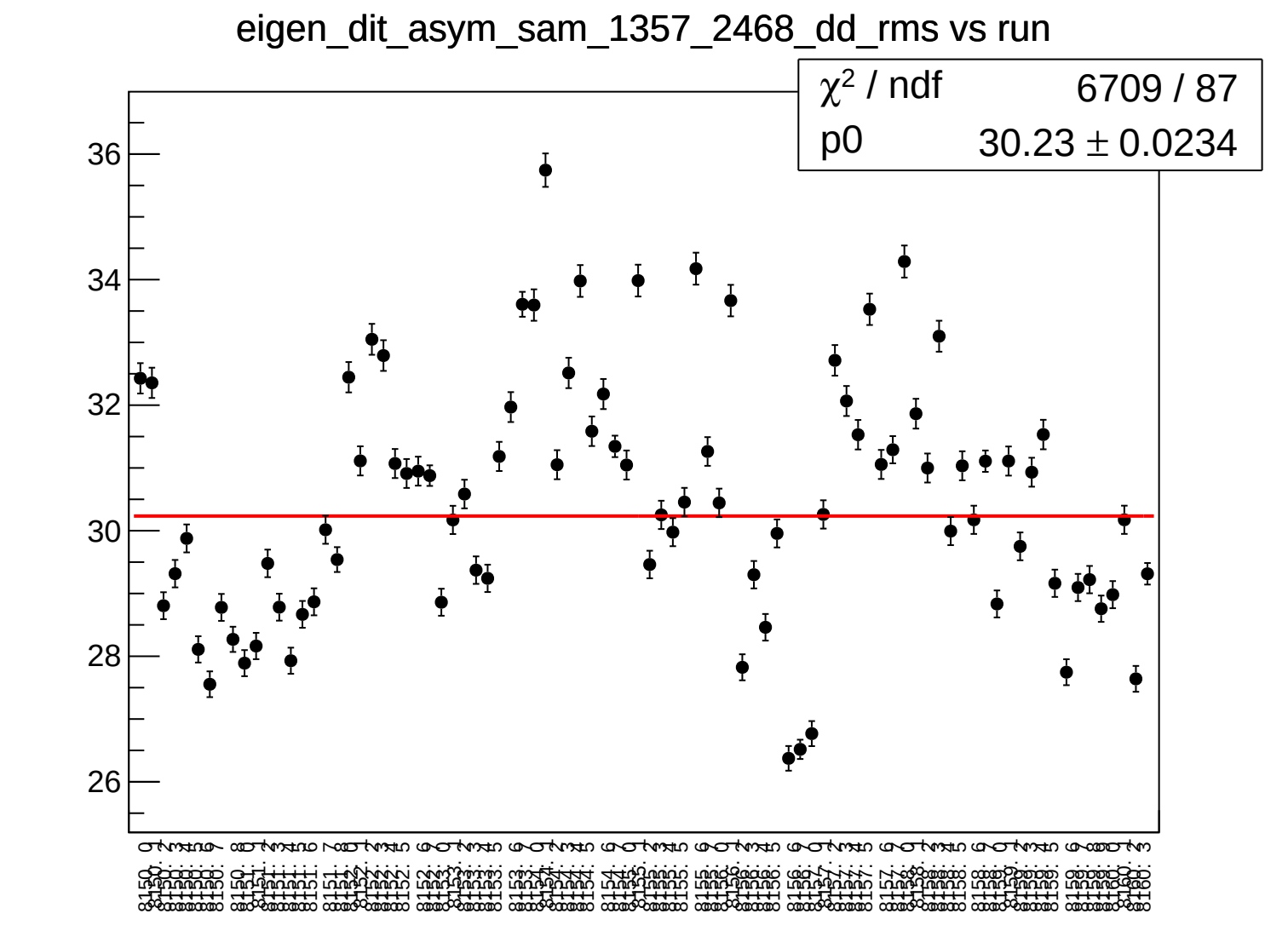

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6709 / 87
p0 30.23 ± 0.0234
36
34
32
30
28
26

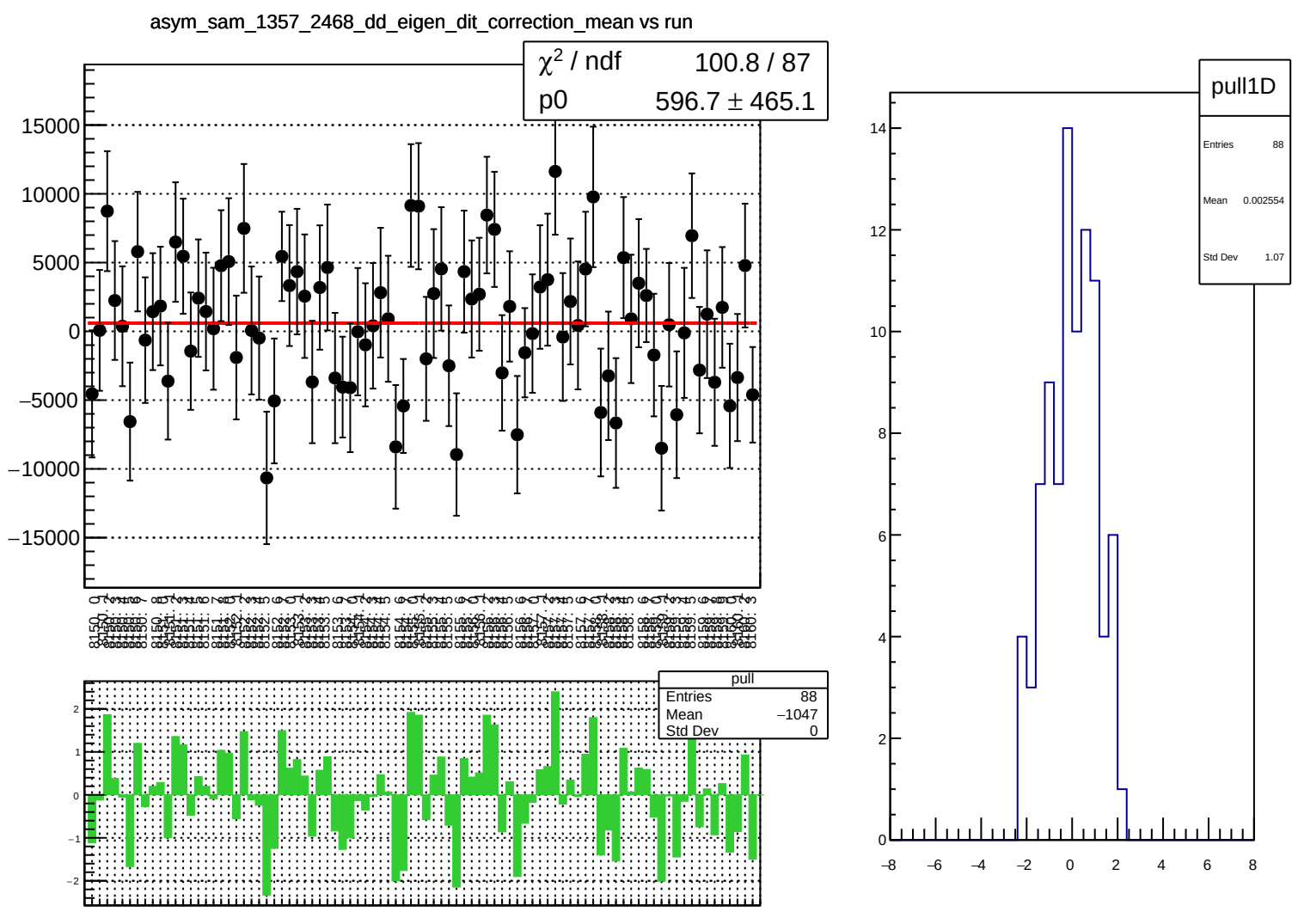

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 100.8 / 87
p0 596.7 ± 465.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1047
Std Dev 0
2
1
0
−1
−2

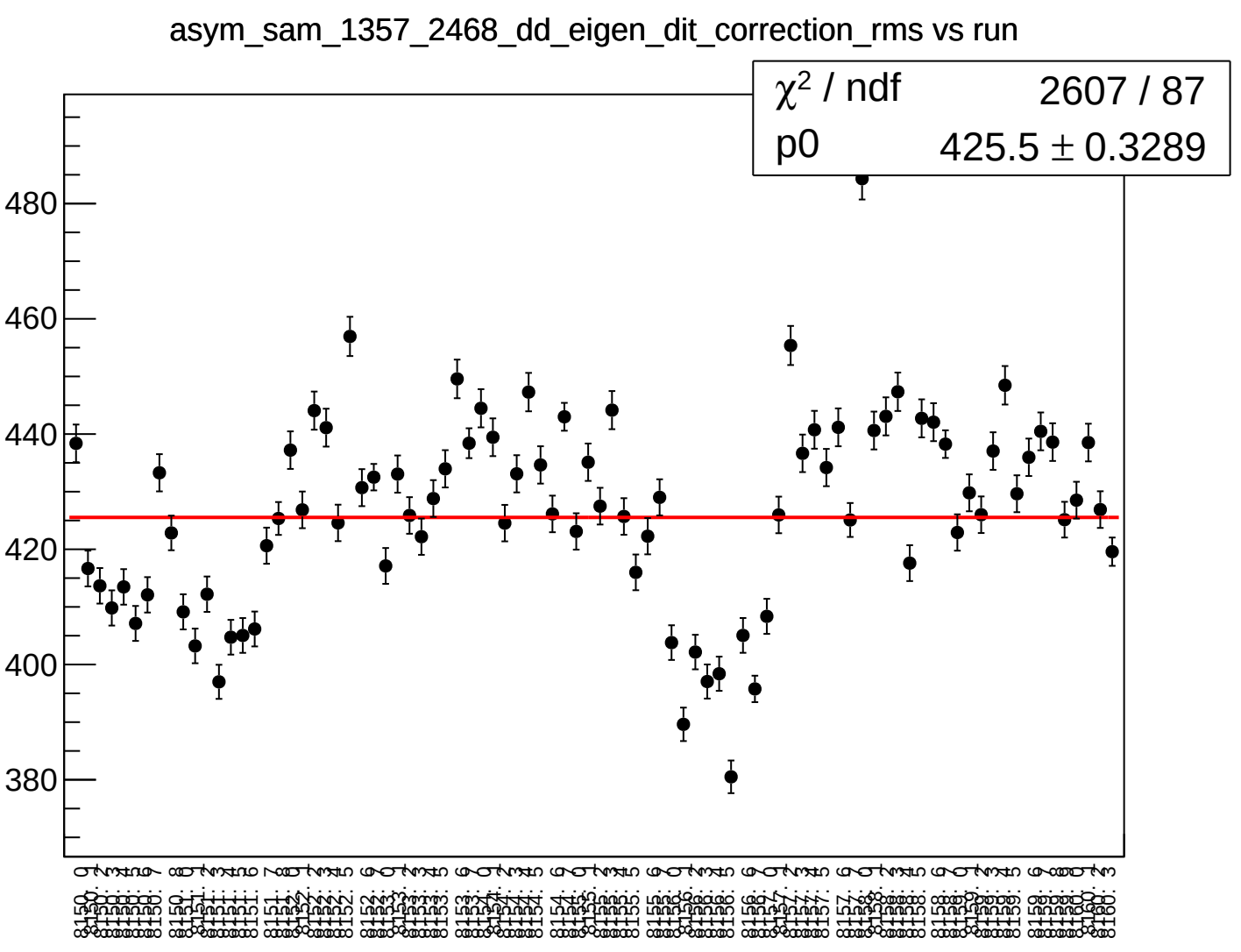

pull1D
Entries 88
Mean 0.002554
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

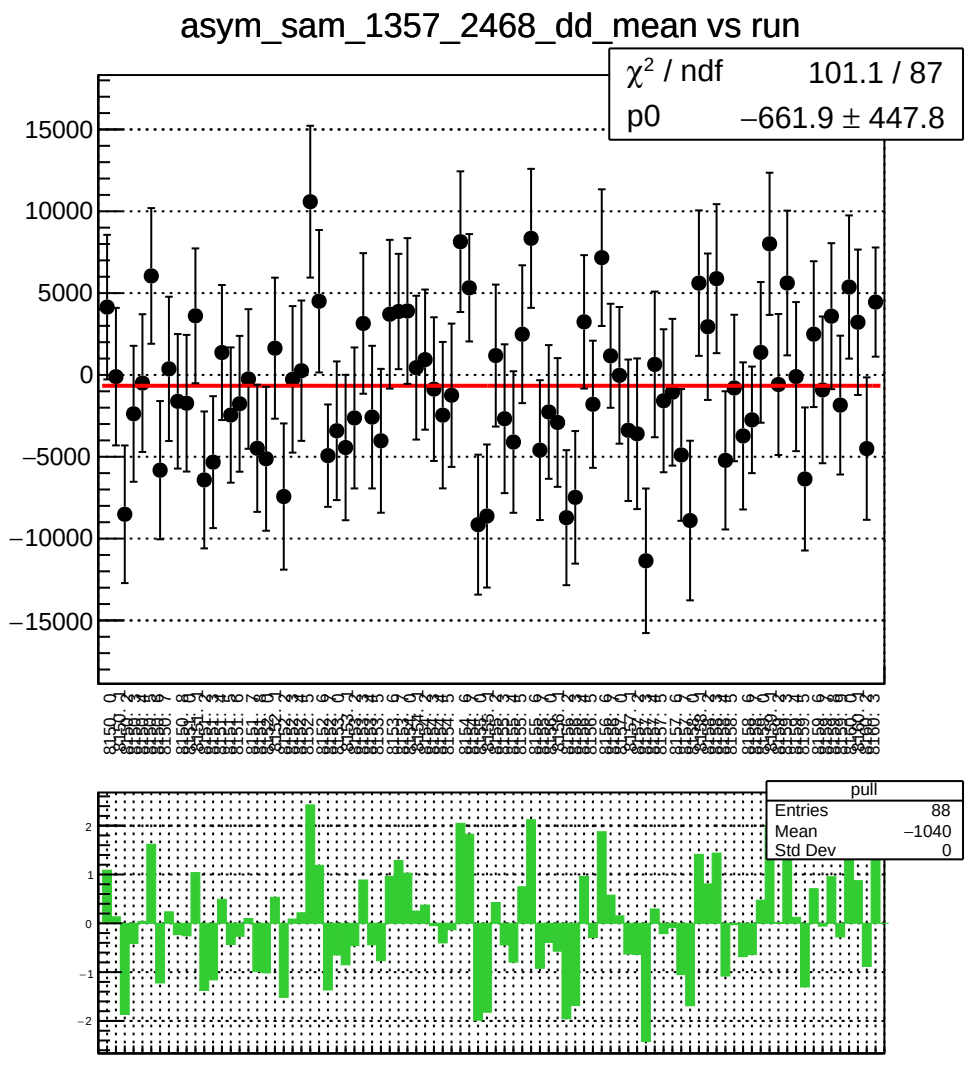

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 2608 / 87
p0 425.5 ± 0.3289
480
460
440
420
400
380

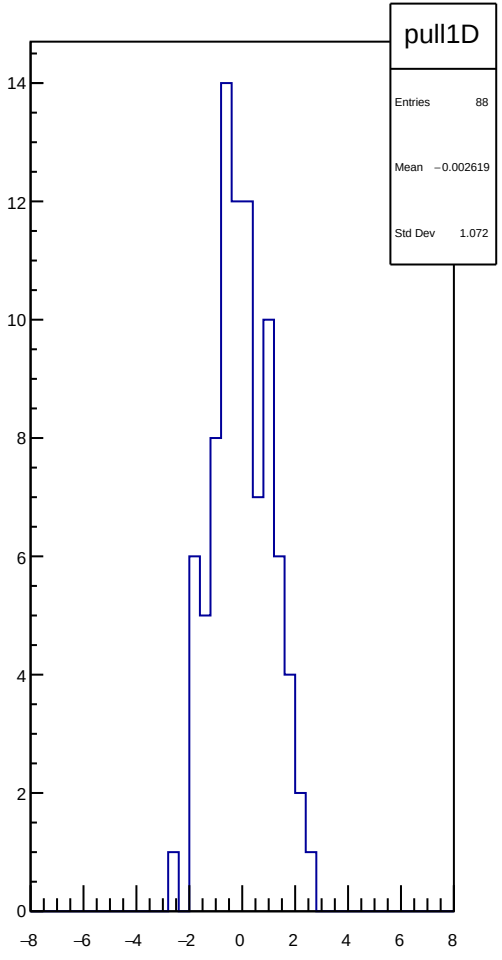

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 90.49 / 87
p0 −68.14 ± 33.09
1000
500
0
−500
−1000
pull
Entries 88
Mean −66.62
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.005433
Std Dev 1.014
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

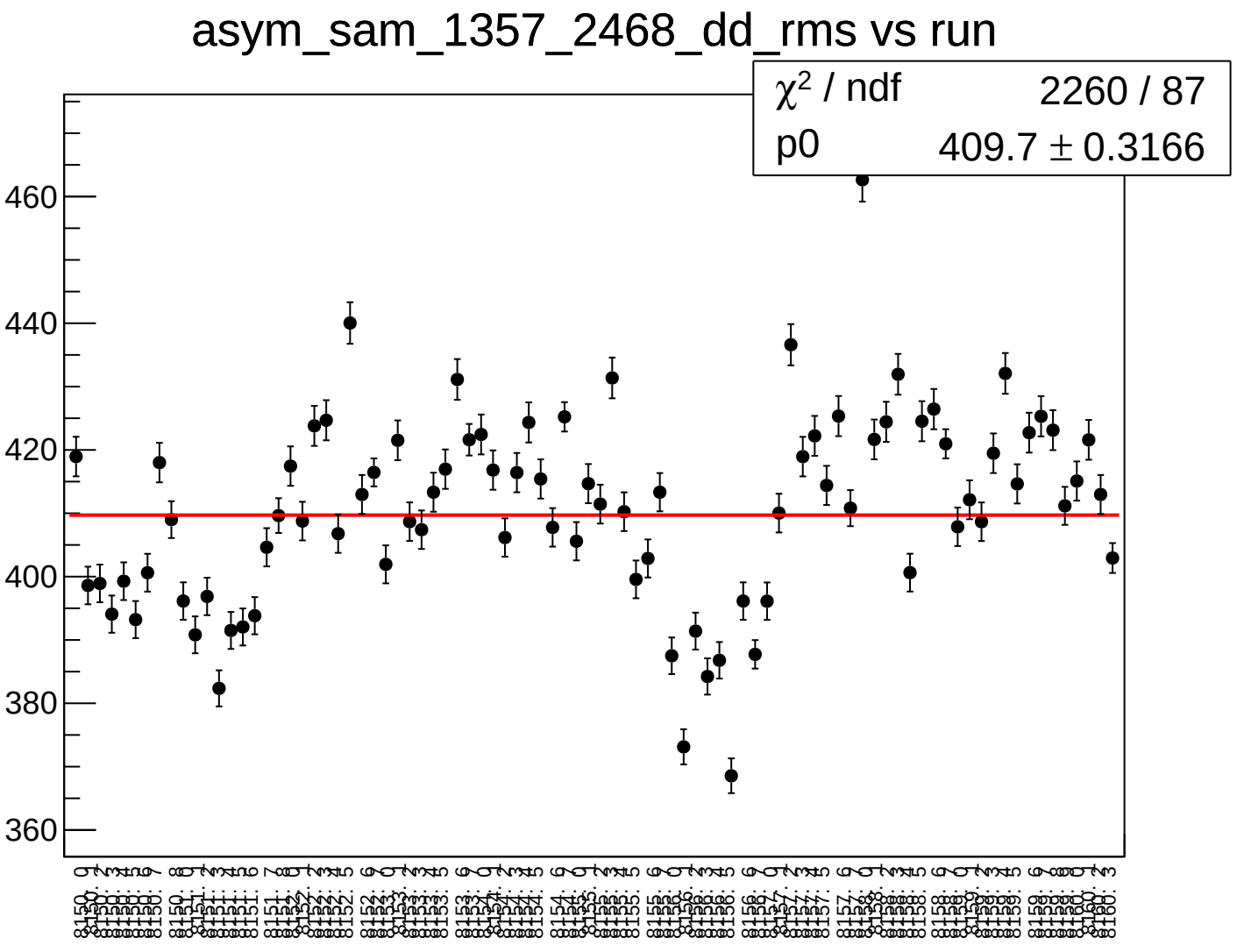

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6709 / 87
p0 30.23 ± 0.0234
36
34
32
30
28
26

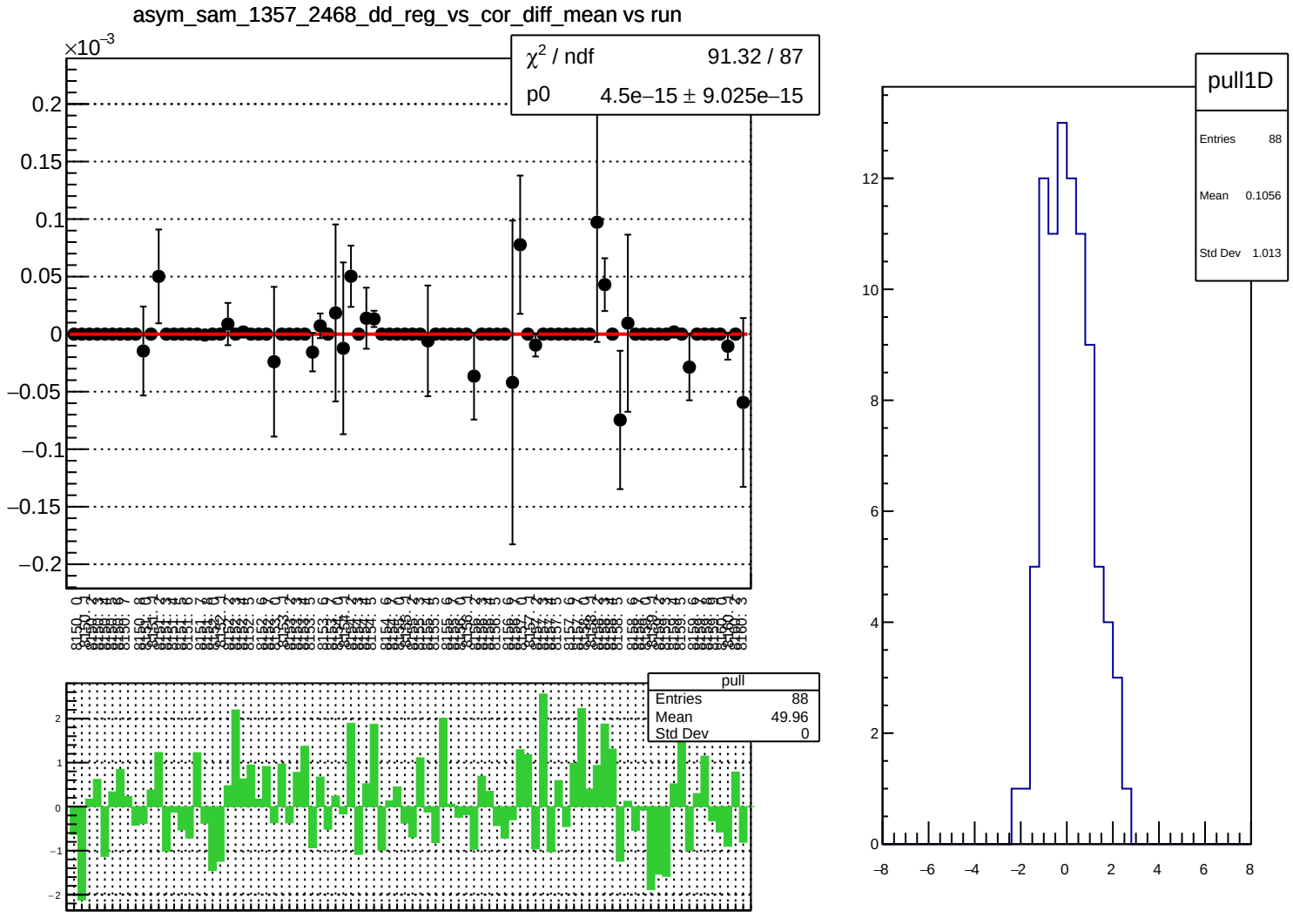

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.8 / 87
p0 596.7 ± 465.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1047
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.002554
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

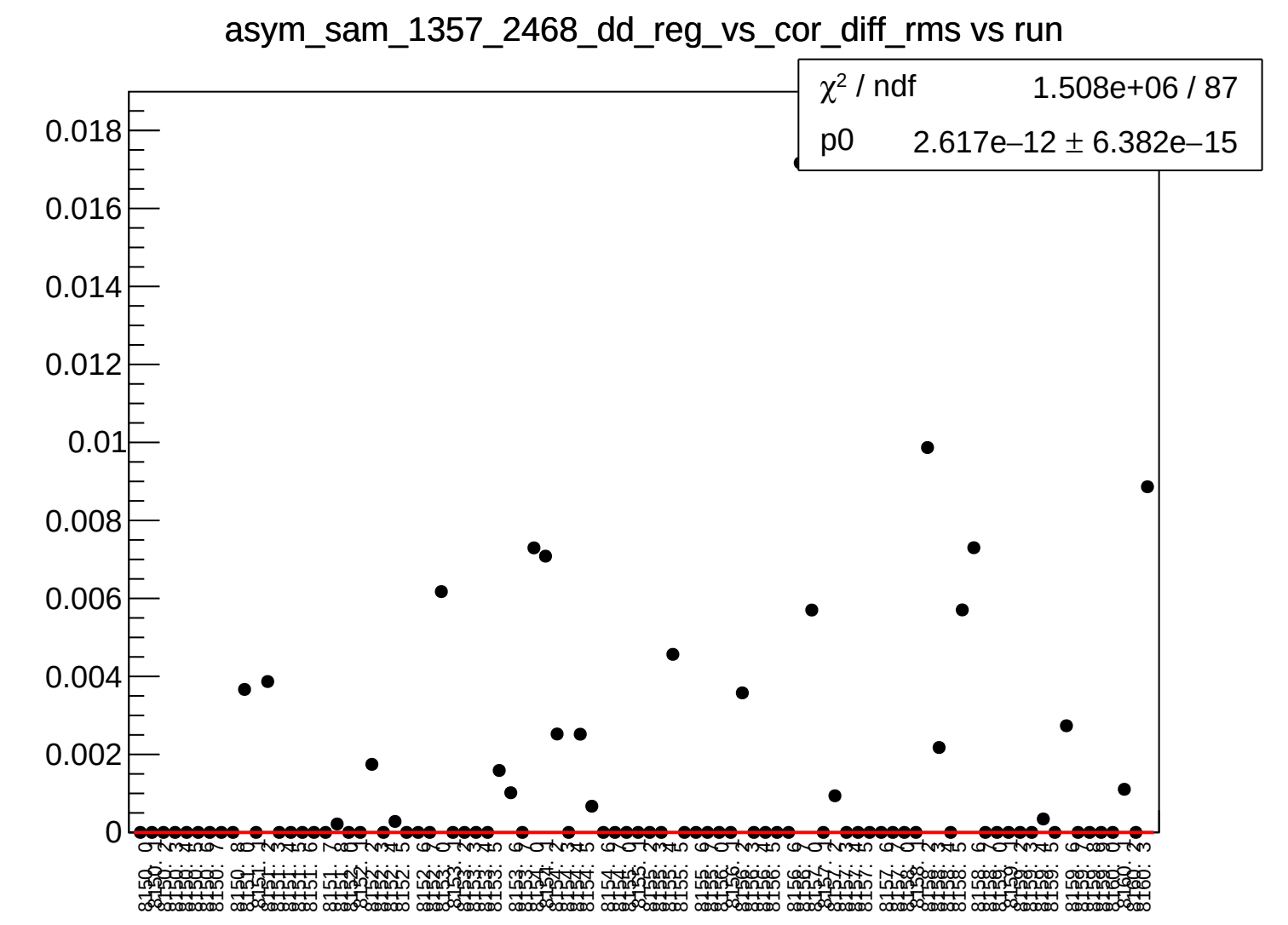

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 2607 / 87
p0 425.5 ± 0.3289
480
460
440
420
400
380

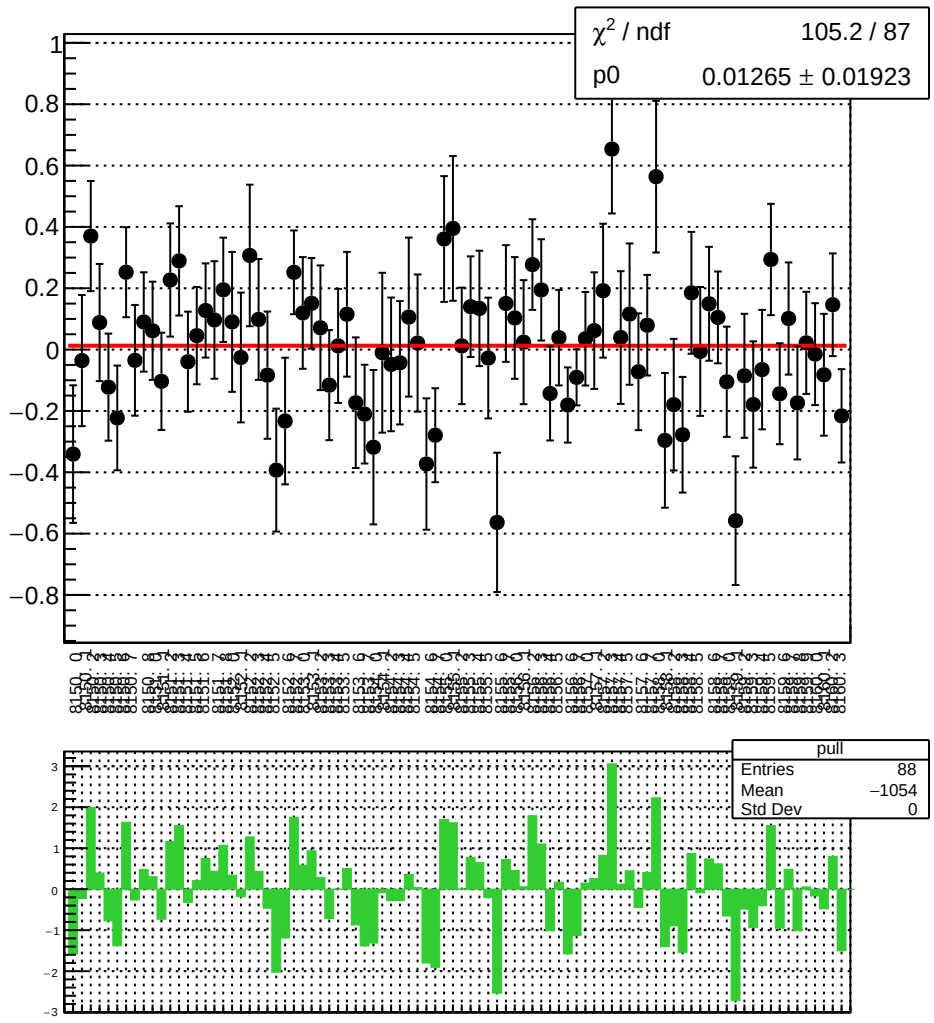

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 101.1 / 87
p0 −661.9 ± 447.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1040
Std Dev 0
2
1
0
−1
−2

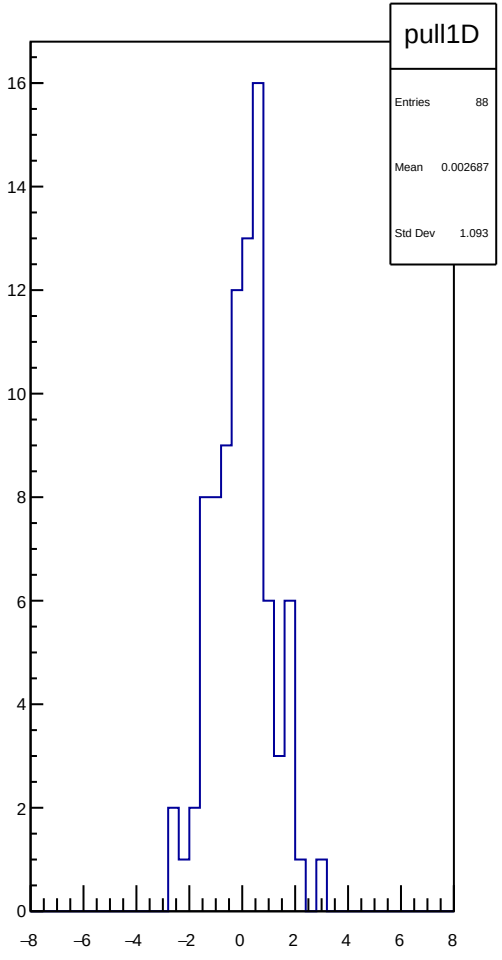

pull1D
Entries 88
Mean −0.002619
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

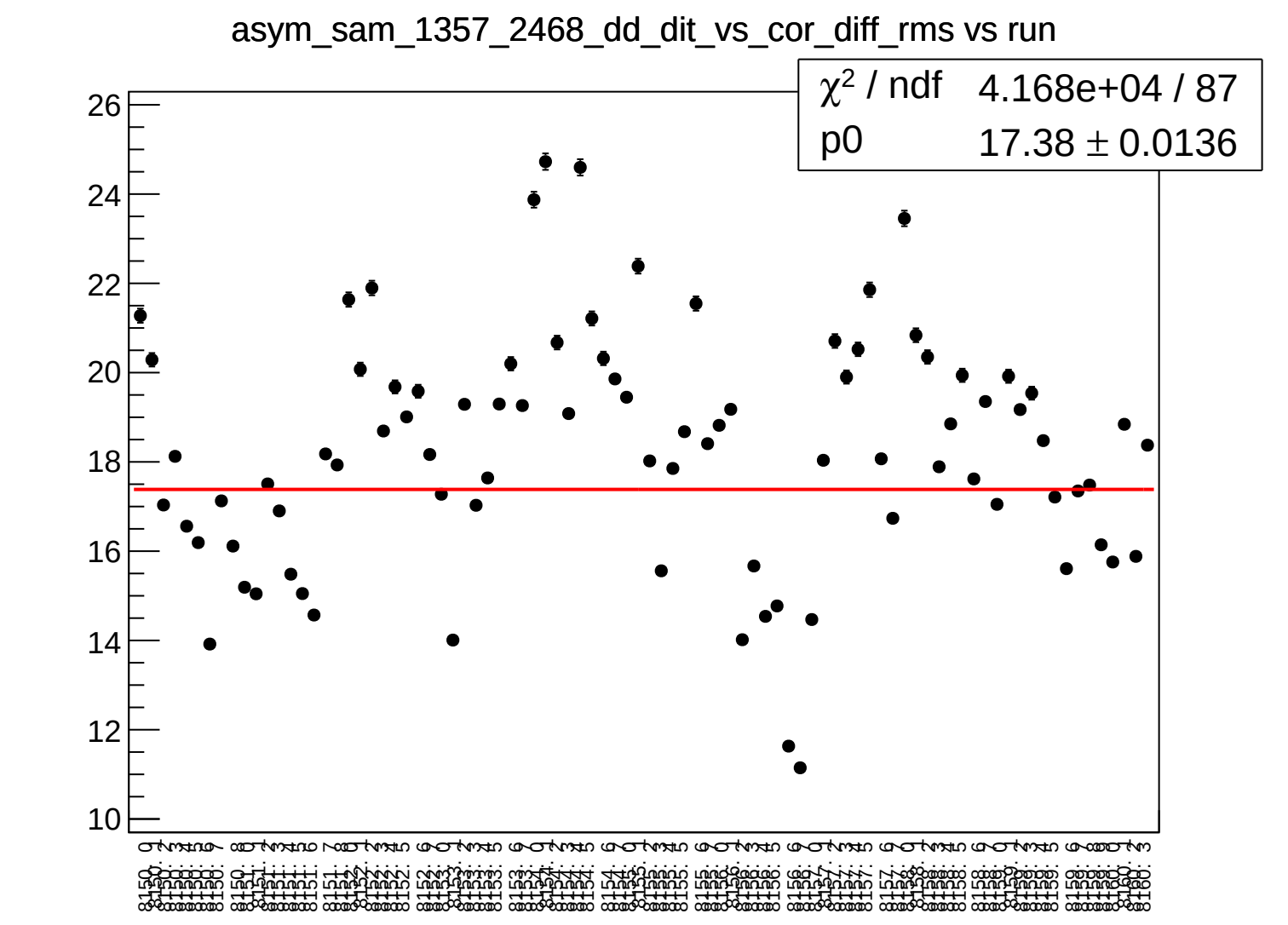

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2260 / 87
p0 409.7 ± 0.3166
460
440
420
400
380
360

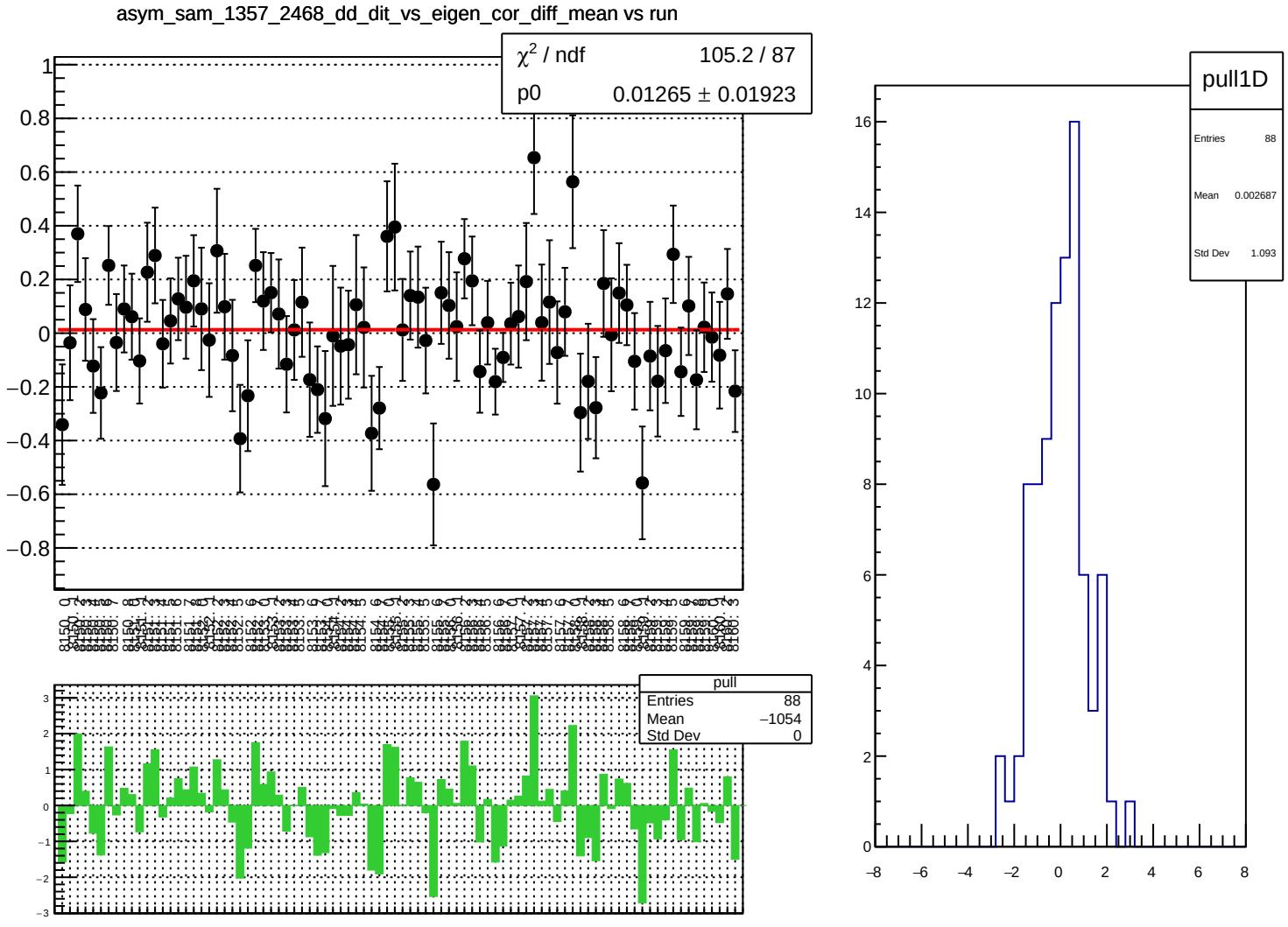

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 91.32 / 87
p0 4.5e−15 ± 9.025e−15
pull
Entries 88
Mean 49.96
Std Dev 0
pull1D
Entries 88
Mean 0.1056
Std Dev 1.013

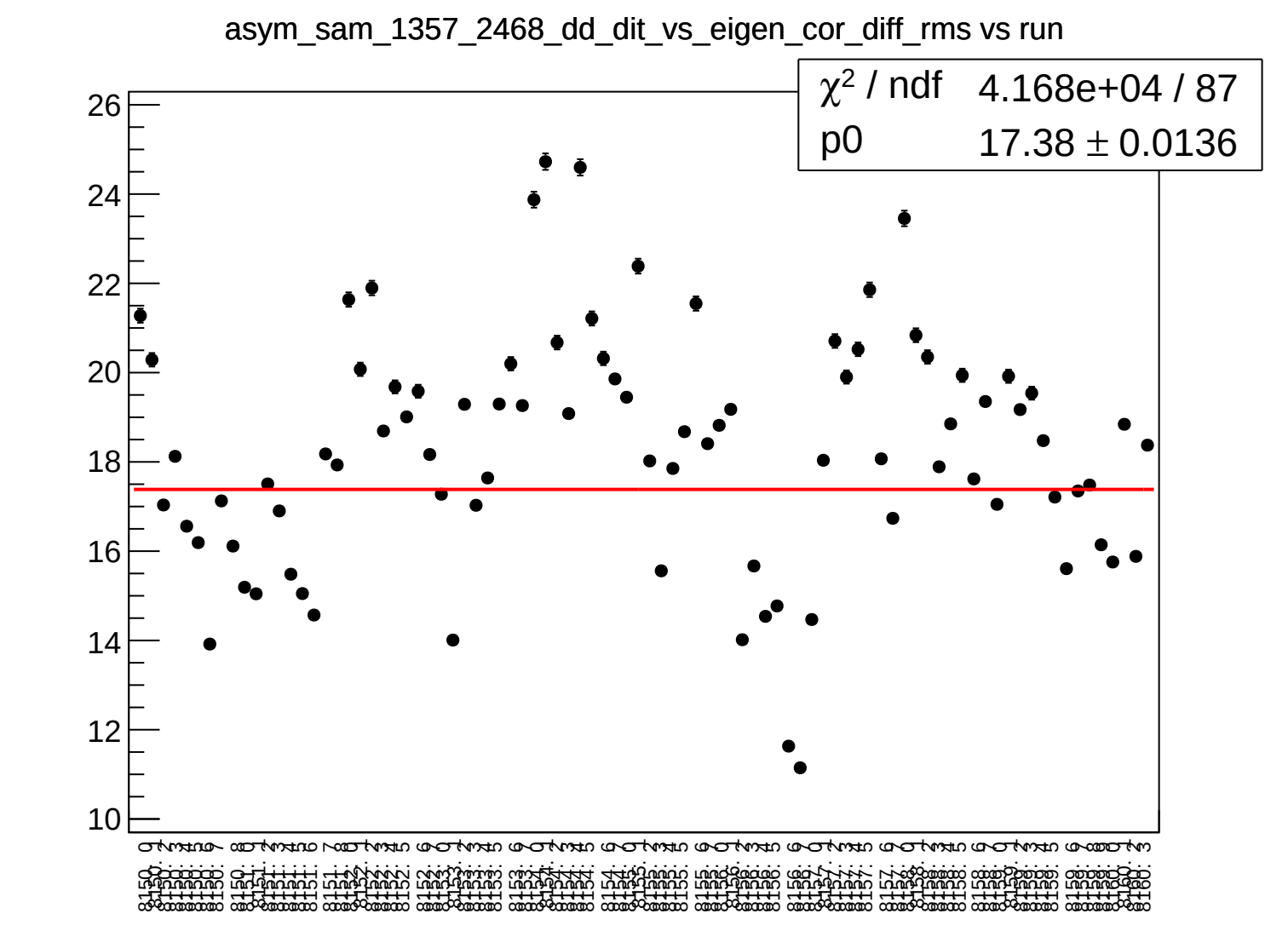

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.508e+06 / 87
p0 2.617e−12 ± 6.382e−15
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

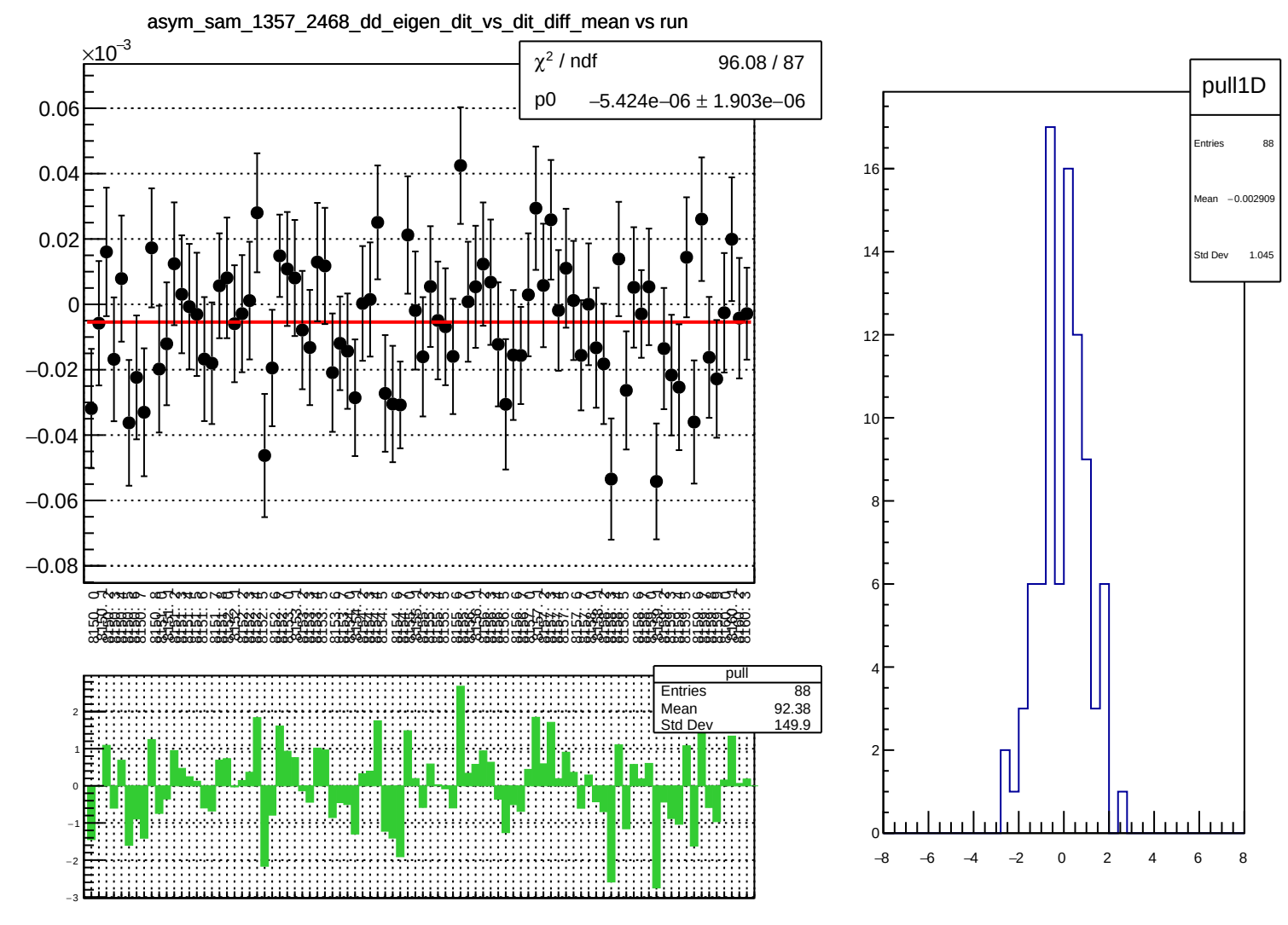

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.2 / 87
p0 0.01265 ± 0.01923
pull
Entries 88
Mean −1054
Std Dev 0

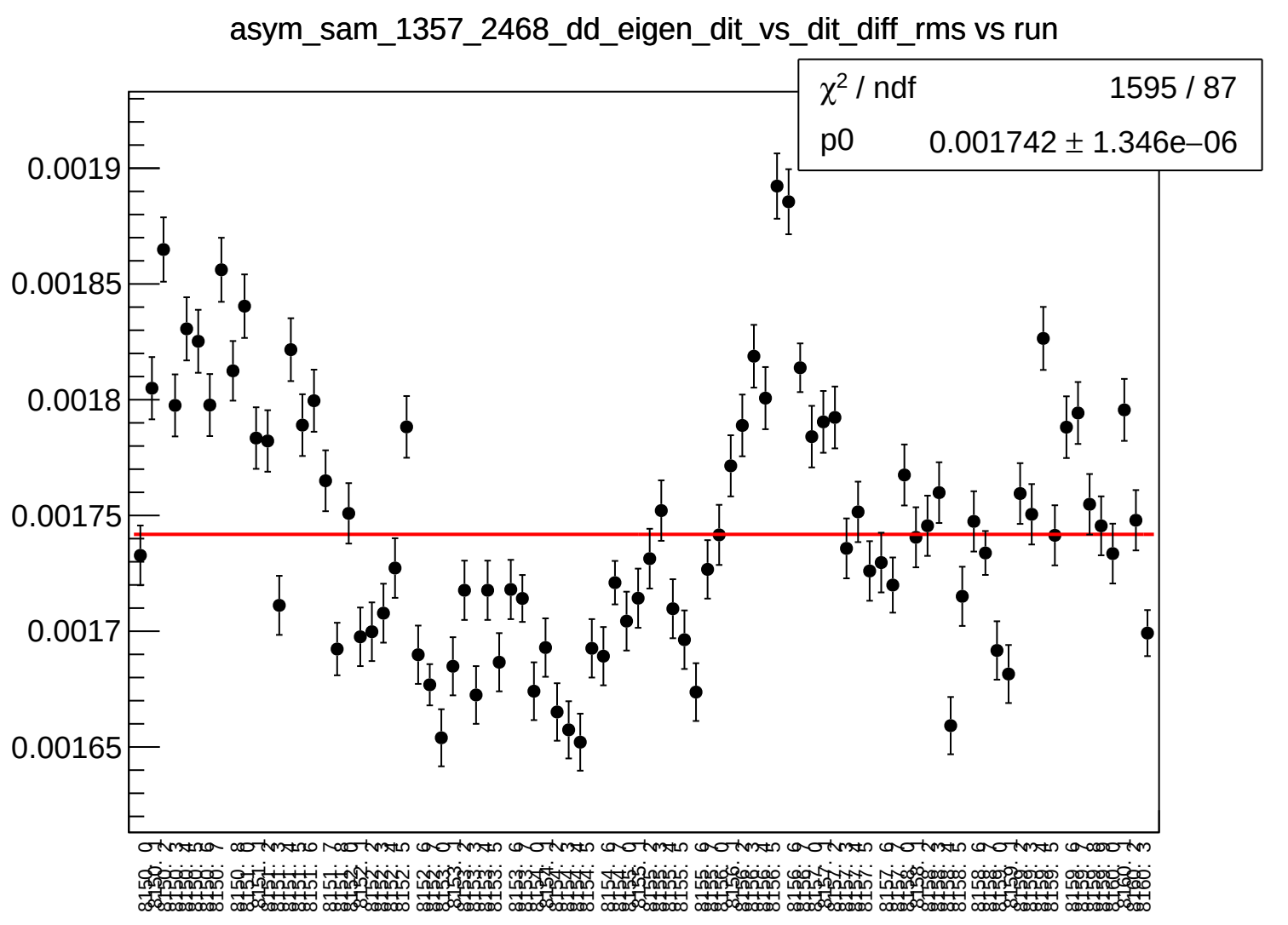

pull1D
Entries 88
Mean 0.002687
Std Dev 1.093

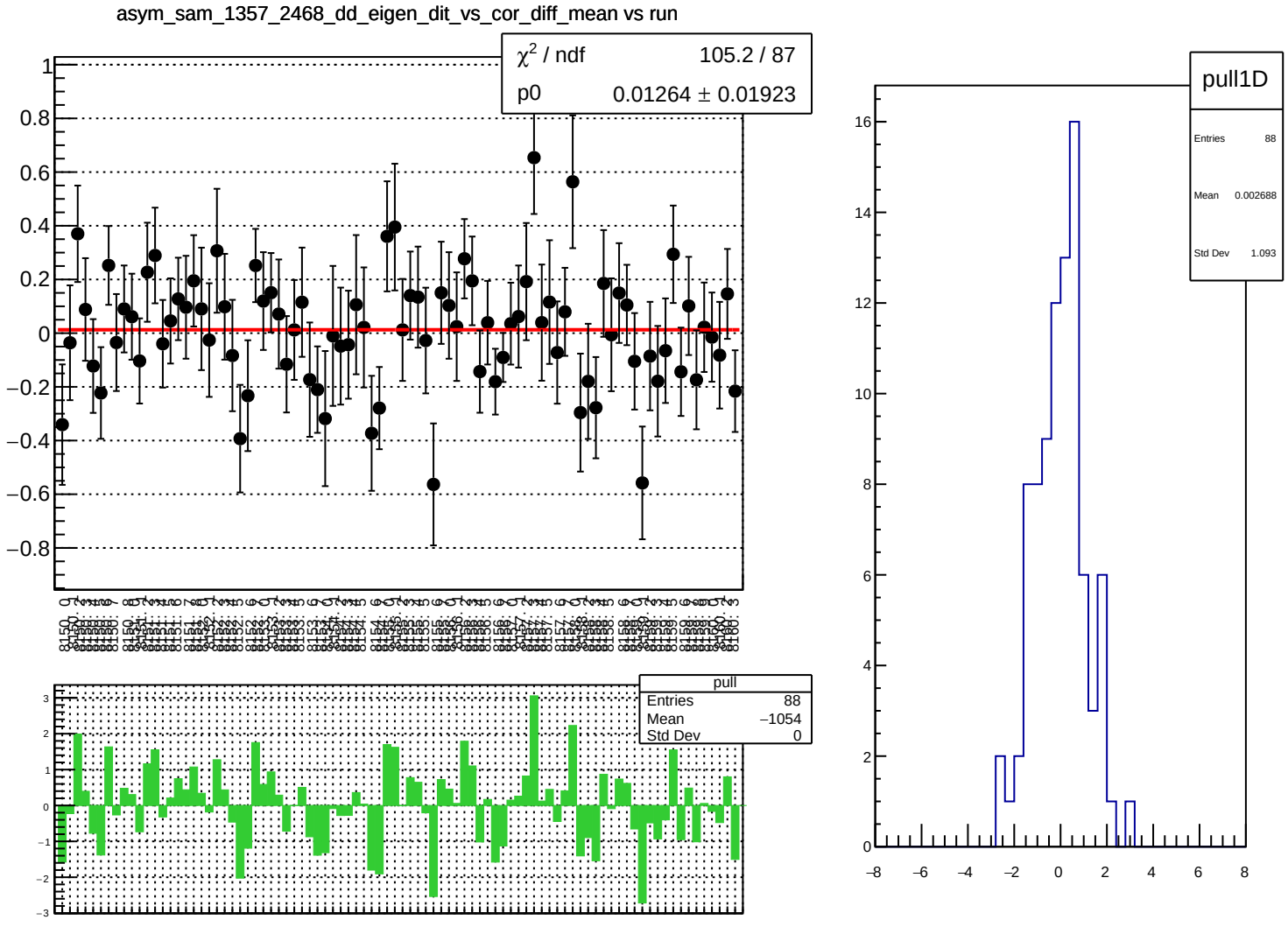

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.168e+04 / 87
p0 17.38 ± 0.0136
26
24
22
20
18
16
14
12
10

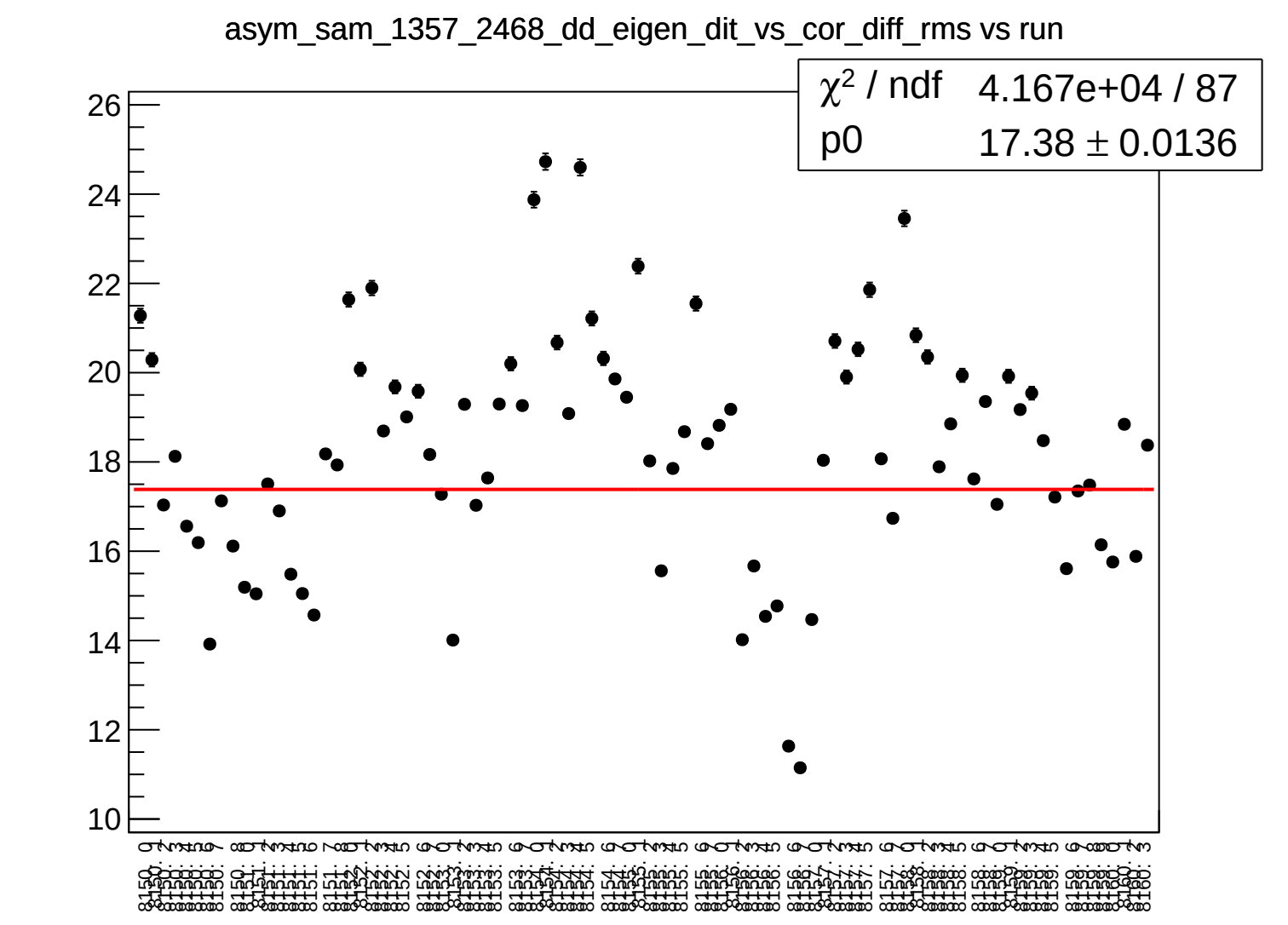

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.2 / 87
p0 0.01265 ± 0.01923
pull
Entries 88
Mean −1054
Std Dev 0
pull1D
Entries 88
Mean 0.002687
Std Dev 1.093

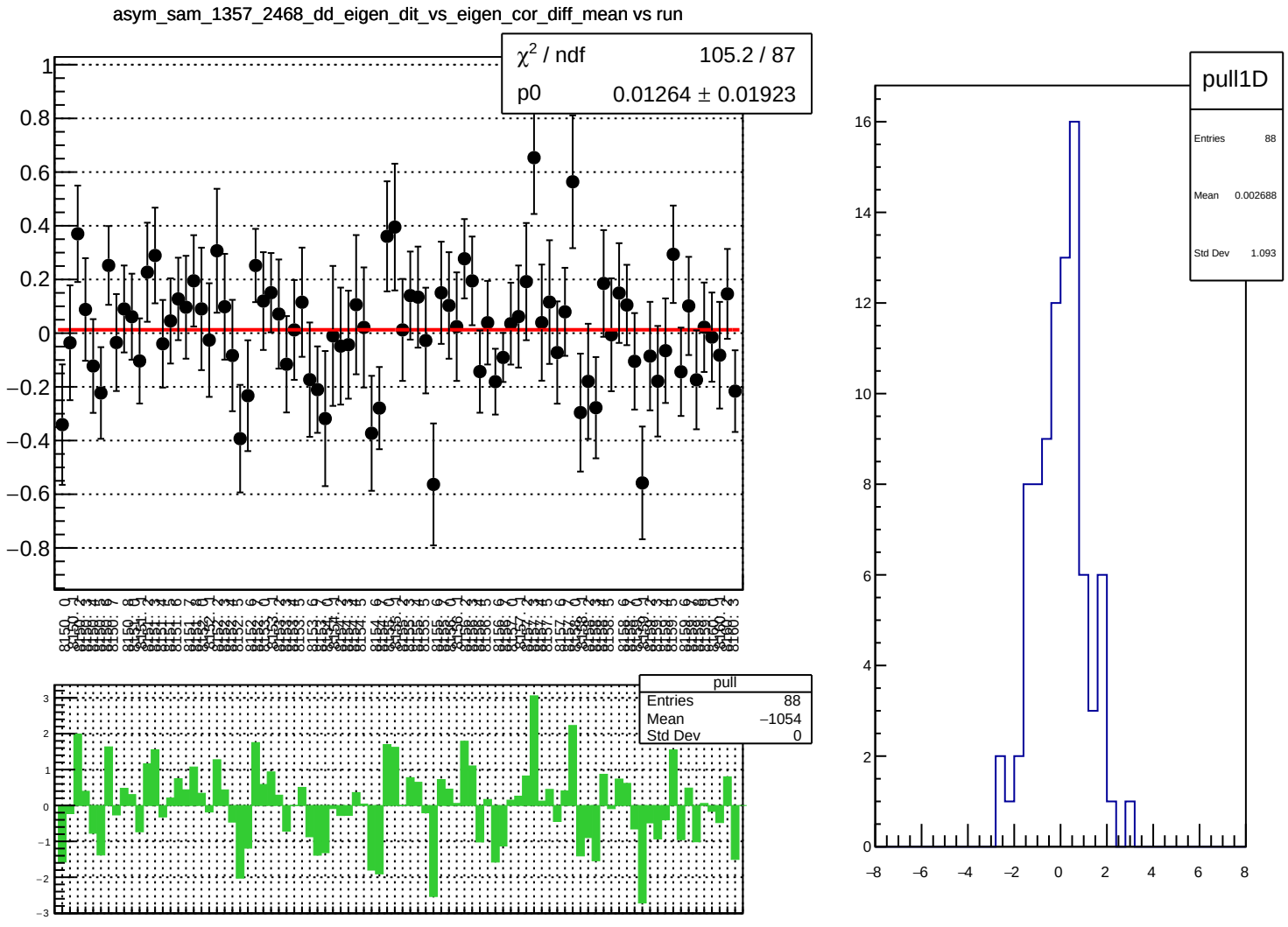

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.168e+04 / 87
p0 17.38 ± 0.0136
26
24
22
20
18
16
14
12
10

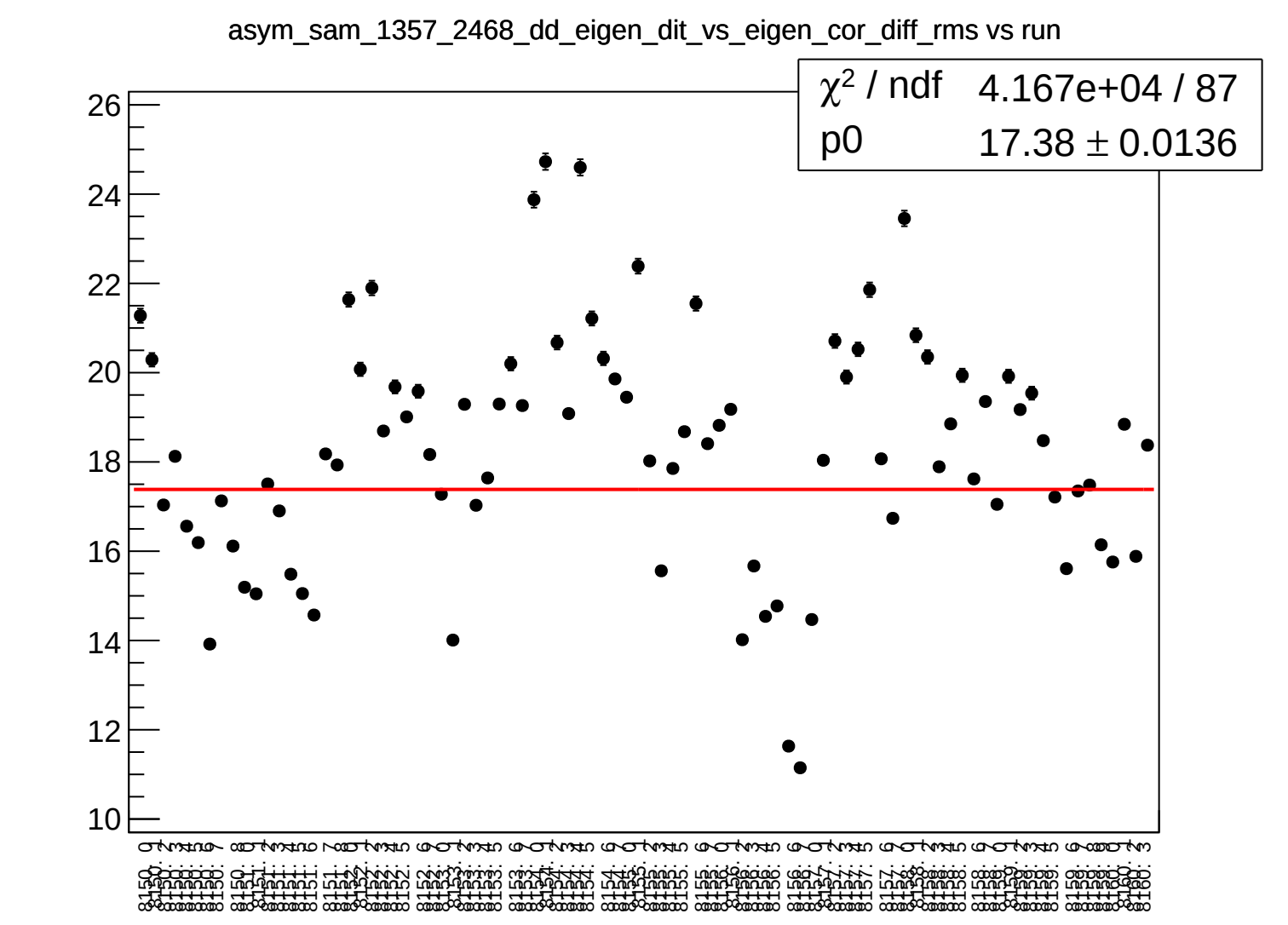

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.08 / 87
p0 −5.424e−06 ± 1.903e−06
pull
Entries 88
Mean 92.38
Std Dev 149.9
pull1D
Entries 88
Mean −0.002909
Std Dev 1.045

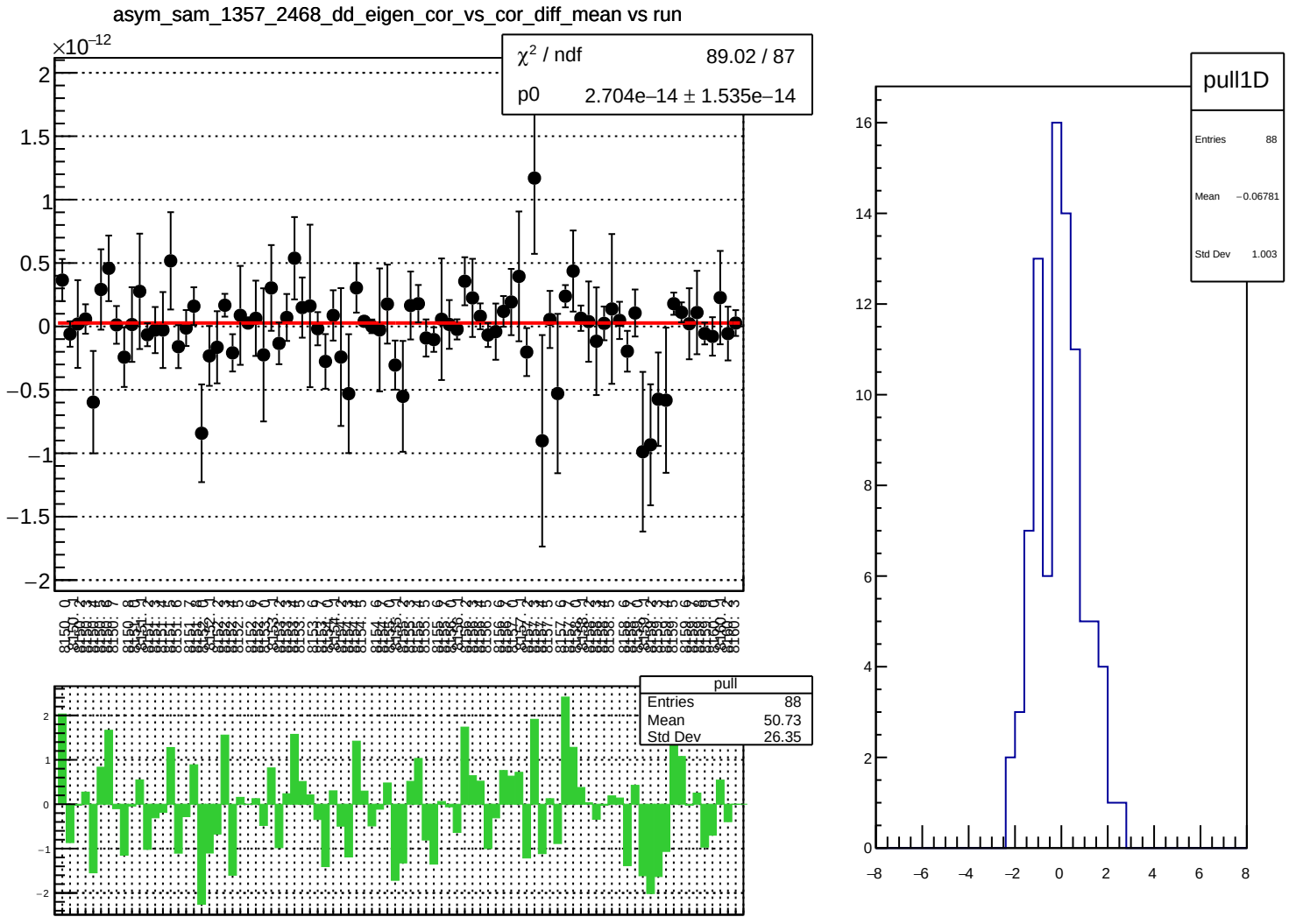

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1595 / 87
p0 0.001742 ± 1.346e−06
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165

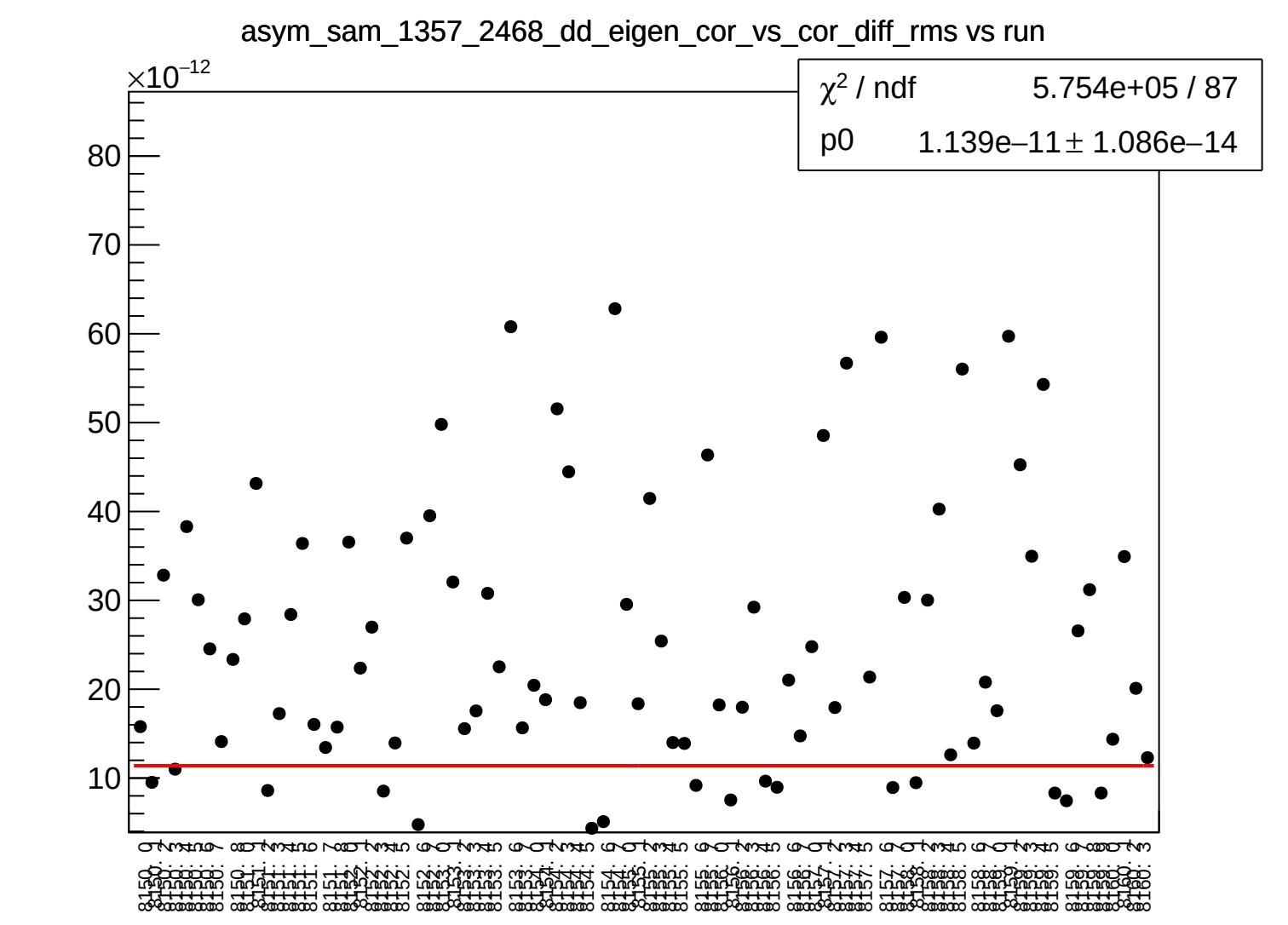

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.2 / 87
p0 0.01264 ± 0.01923
pull
Entries 88
Mean −1054
Std Dev 0
pull1D
Entries 88
Mean 0.002688
Std Dev 1.093

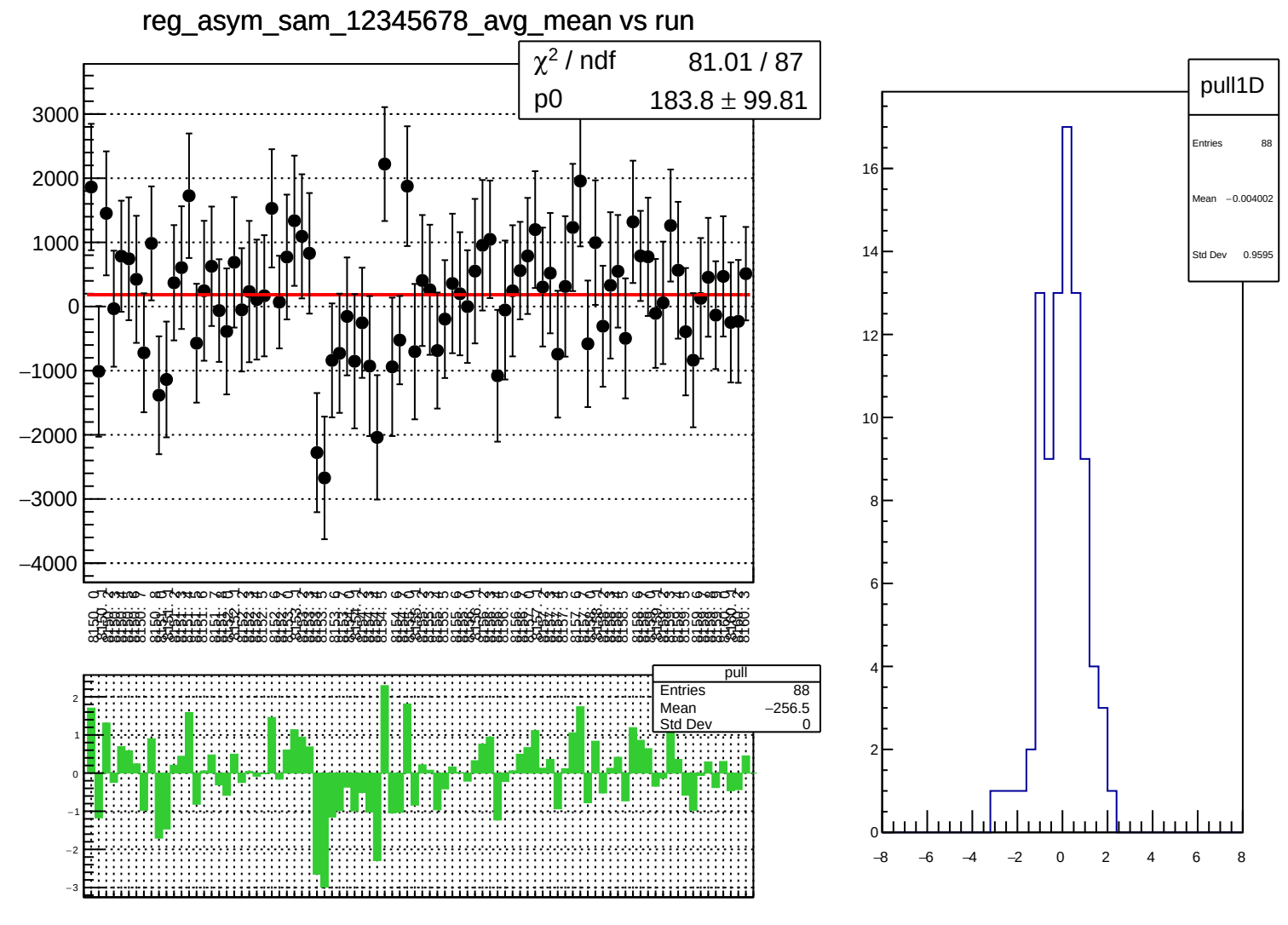

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.167e+04 / 87
p0 17.38 ± 0.0136
26
24
22
20
18
16
14
12
10

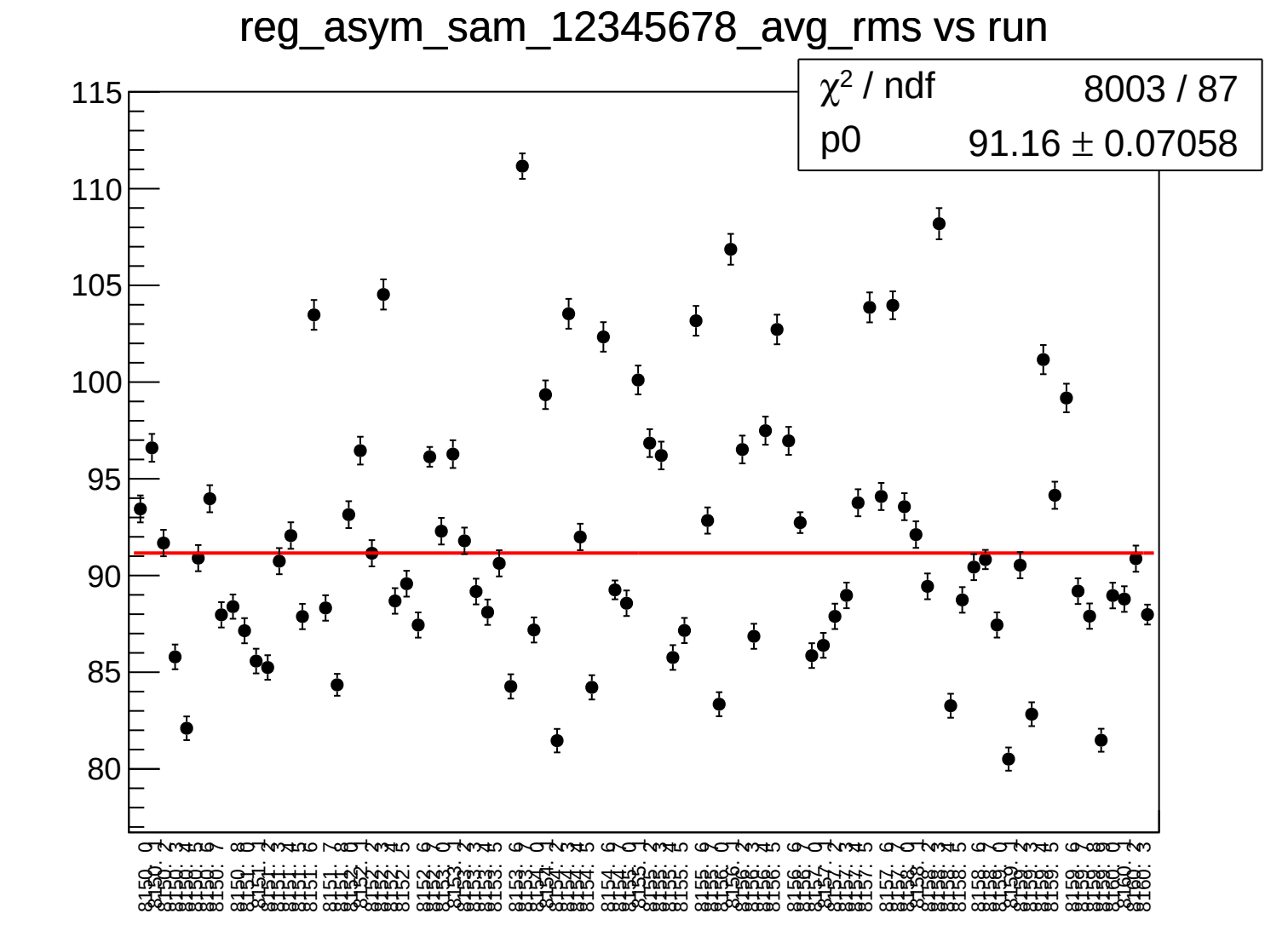

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.2 / 87
p0 0.01264 ± 0.01923
pull
Entries 88
Mean −1054
Std Dev 0
pull1D
Entries 88
Mean 0.002688
Std Dev 1.093

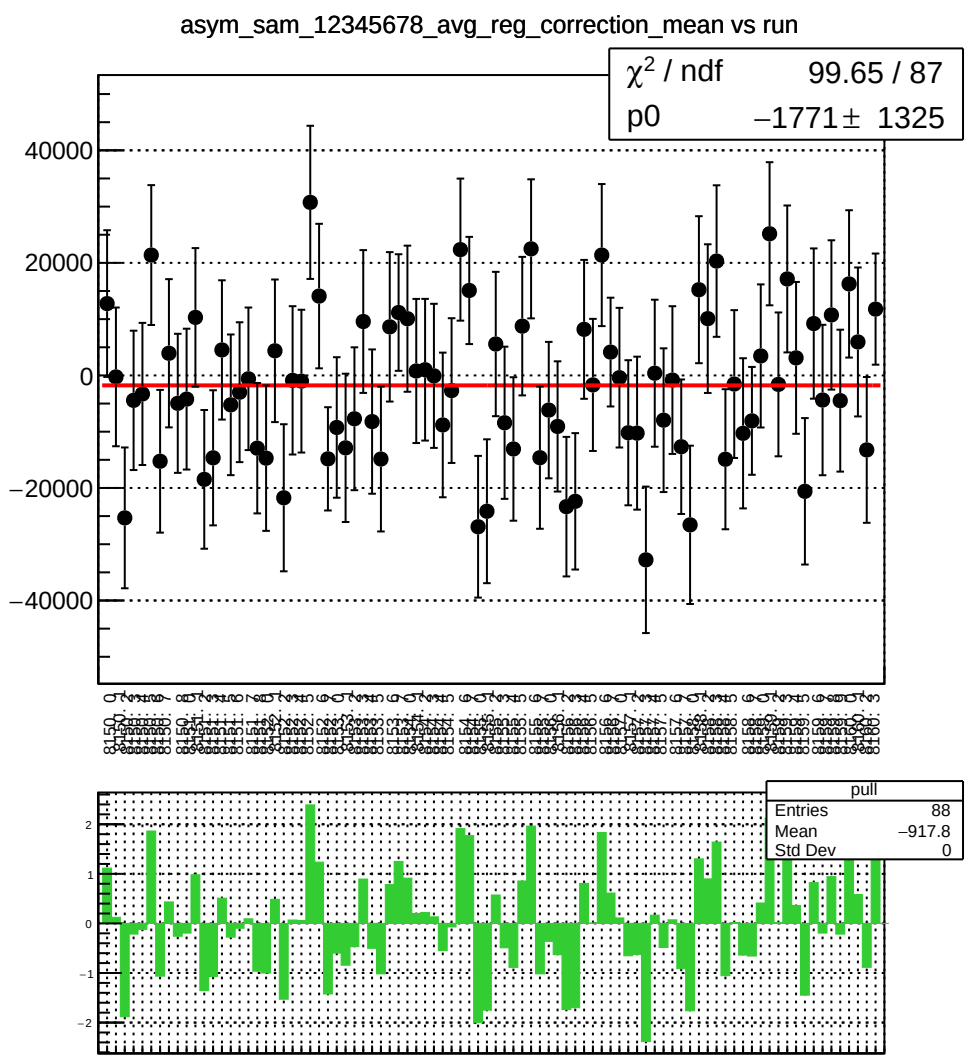

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.167e+04 / 87
p0 17.38 ± 0.0136
26
24
22
20
18
16
14
12
10

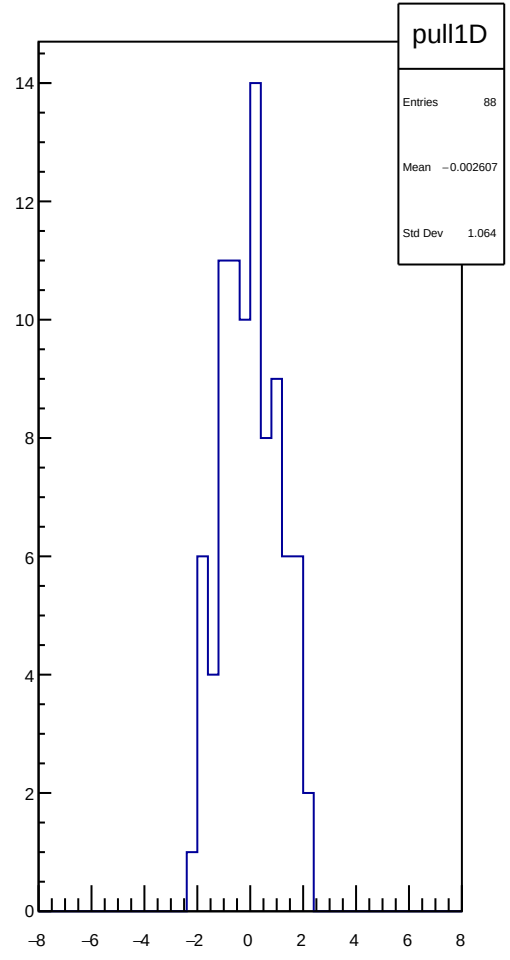

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.02 / 87
p0 2.704e−14 ± 1.535e−14
pull
Entries 88
Mean 50.73
Std Dev 26.35
pull1D
Entries 88
Mean −0.06781
Std Dev 1.003

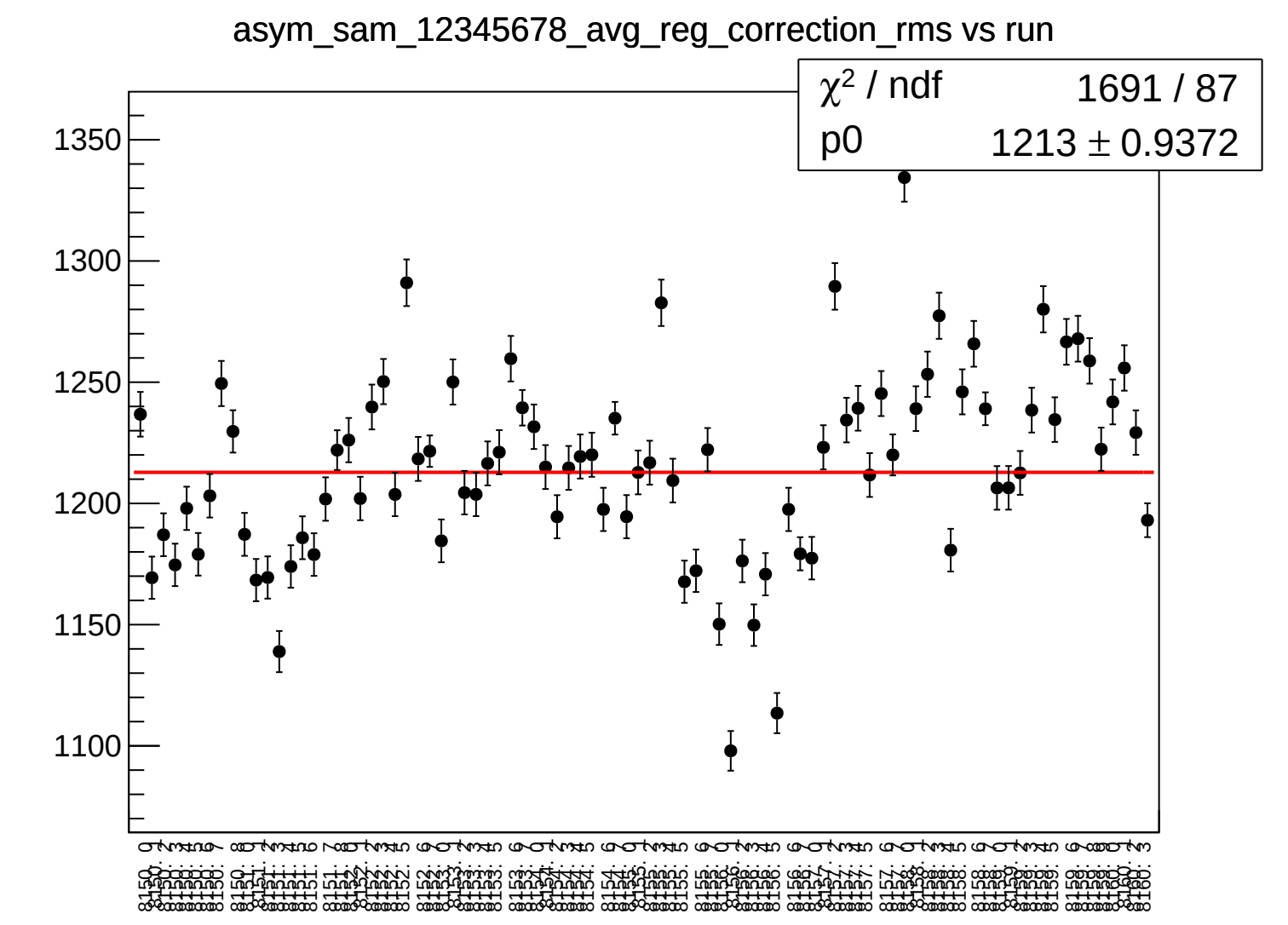

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.754e+05 / 87
p0 1.139e−11 ± 1.086e−14
80
70
60
50
40
30
20
10

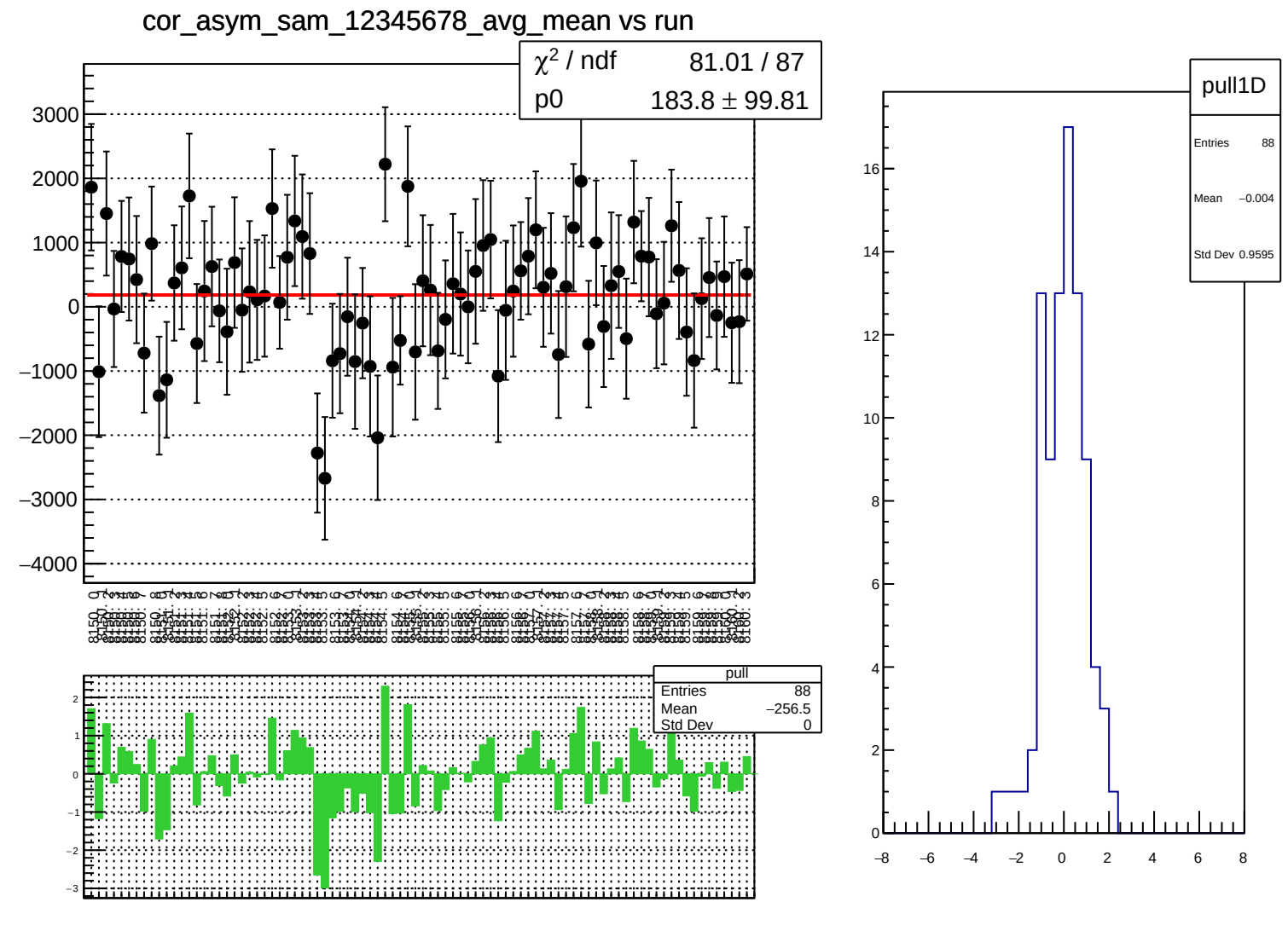

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 81.01 / 87
p0 183.8 ± 99.81
pull
Entries 88
Mean −256.5
Std Dev 0
pull1D
Entries 88
Mean −0.004002
Std Dev 0.9595

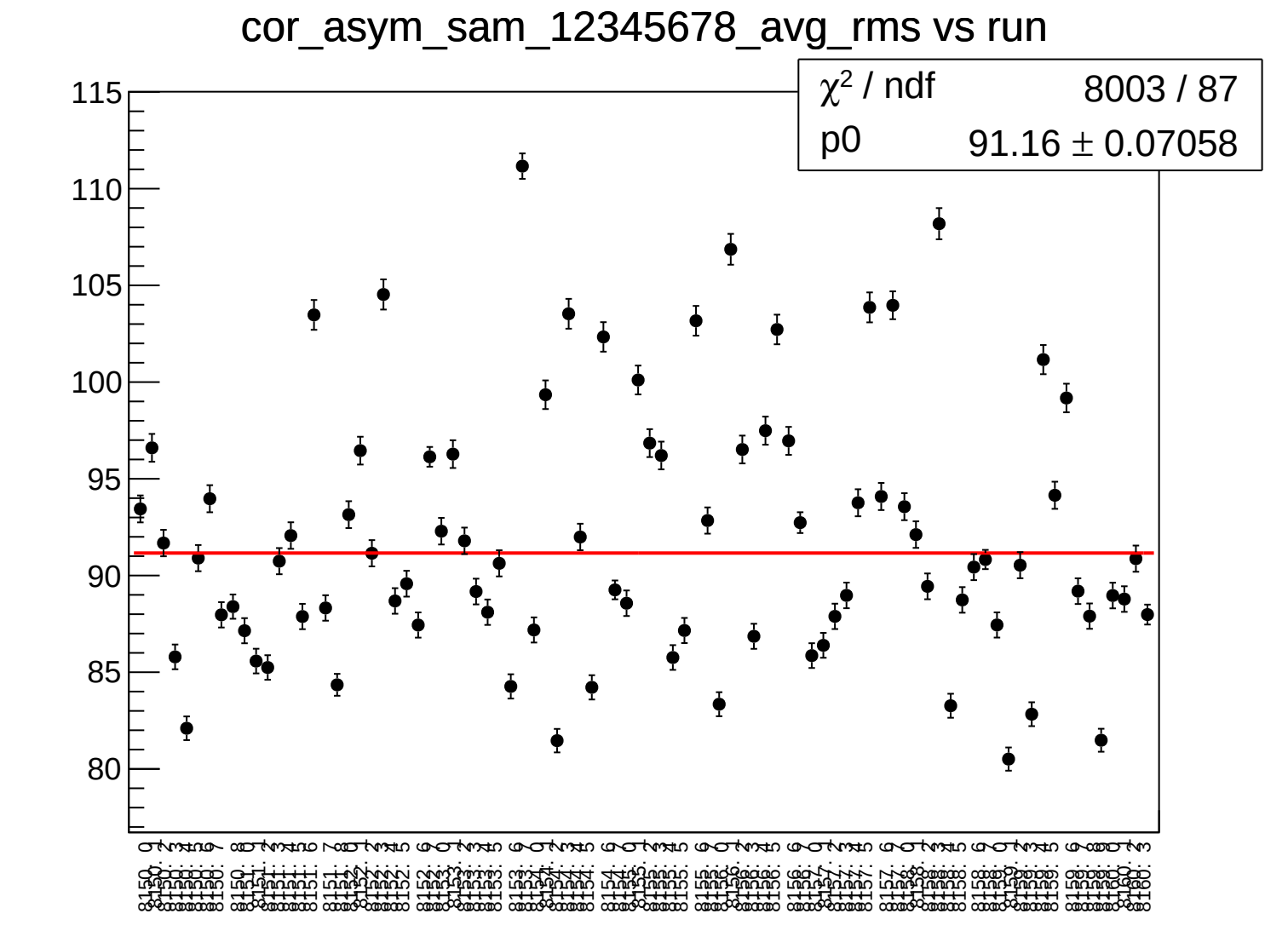

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 8003 / 87
p0 91.16 ± 0.07058
115
110
105
100
95
90
85
80

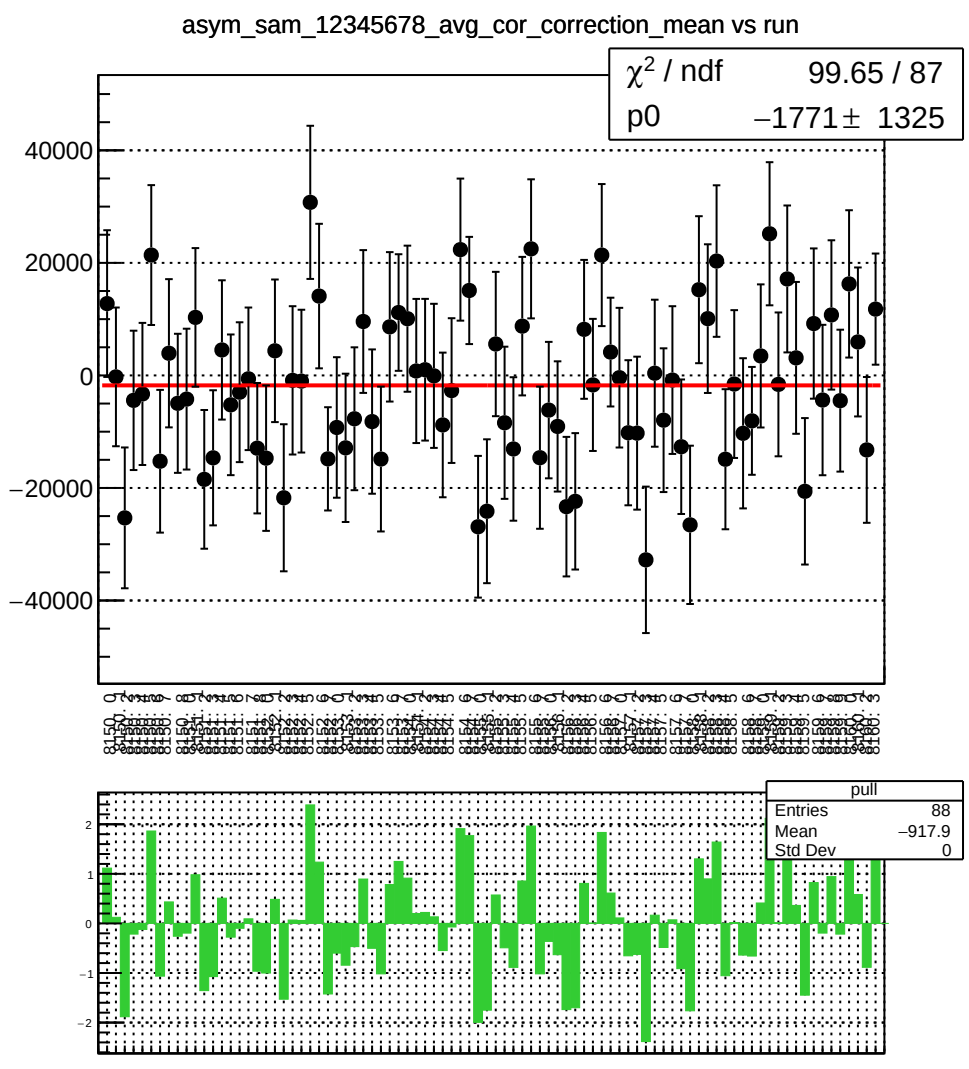

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 99.65 / 87
p0 −1771 ± 1325
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −917.8
Std Dev 0
2
1
0
−1
−2

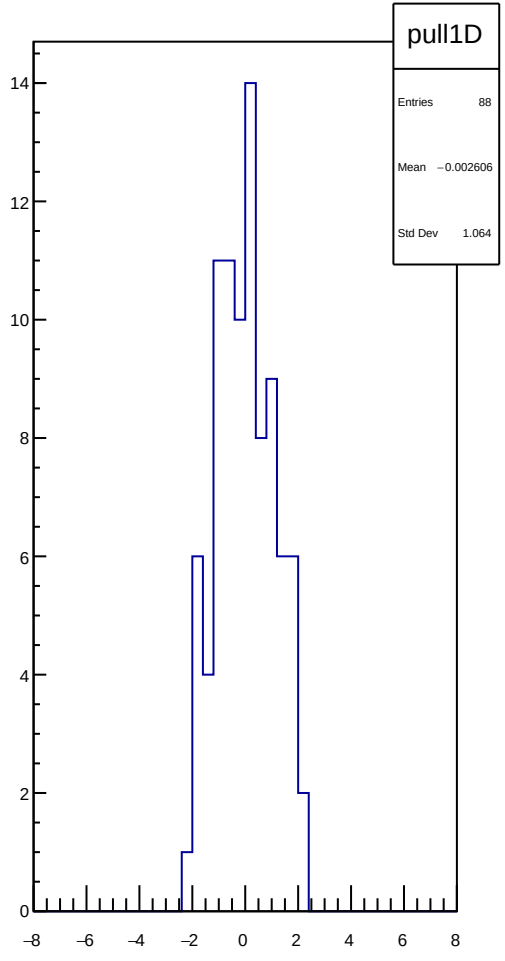

pull1D
Entries 88
Mean −0.002607
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

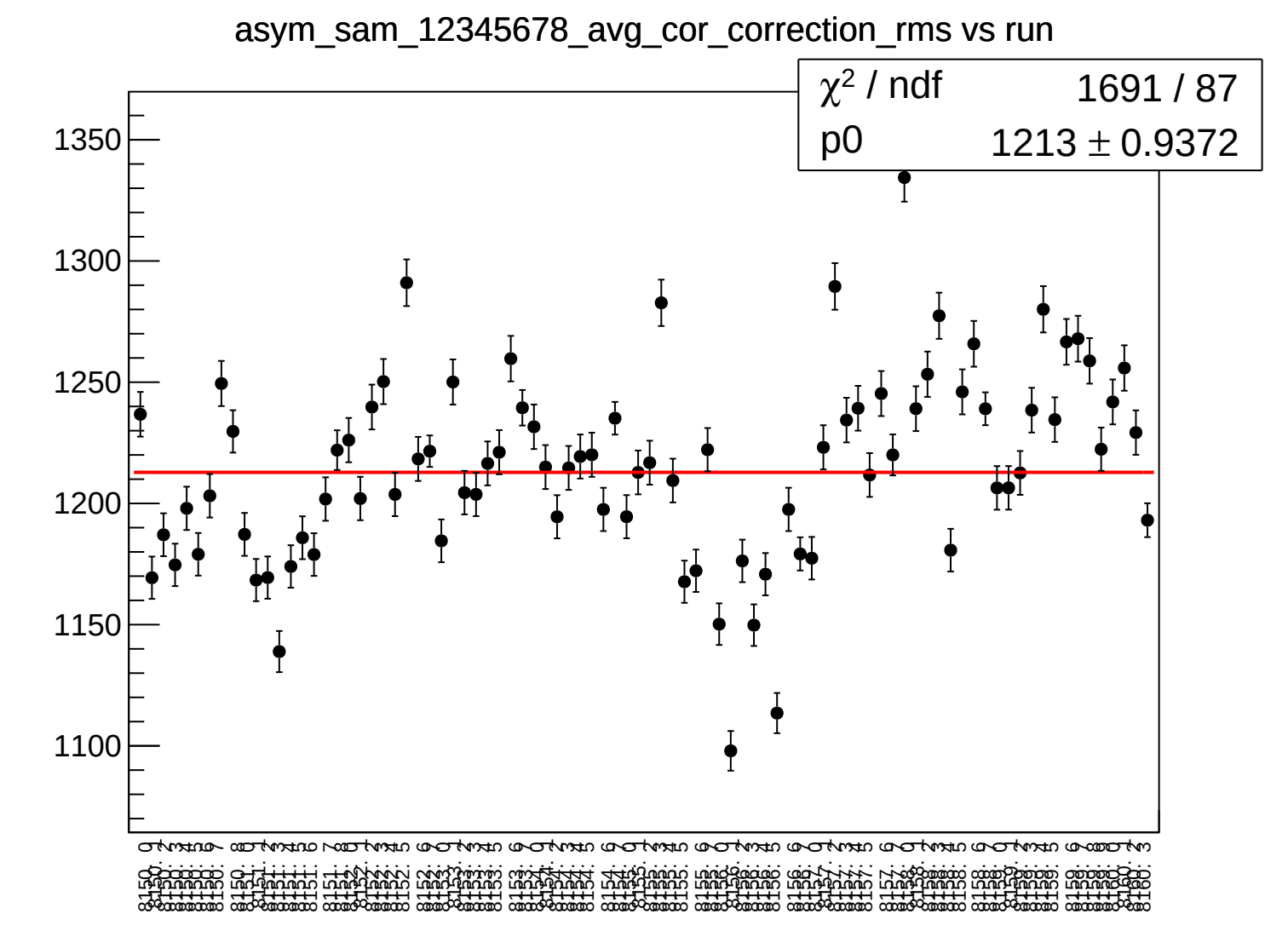

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1691 / 87
p0 1213 ± 0.9372
1350
1300
1250
1200
1150
1100

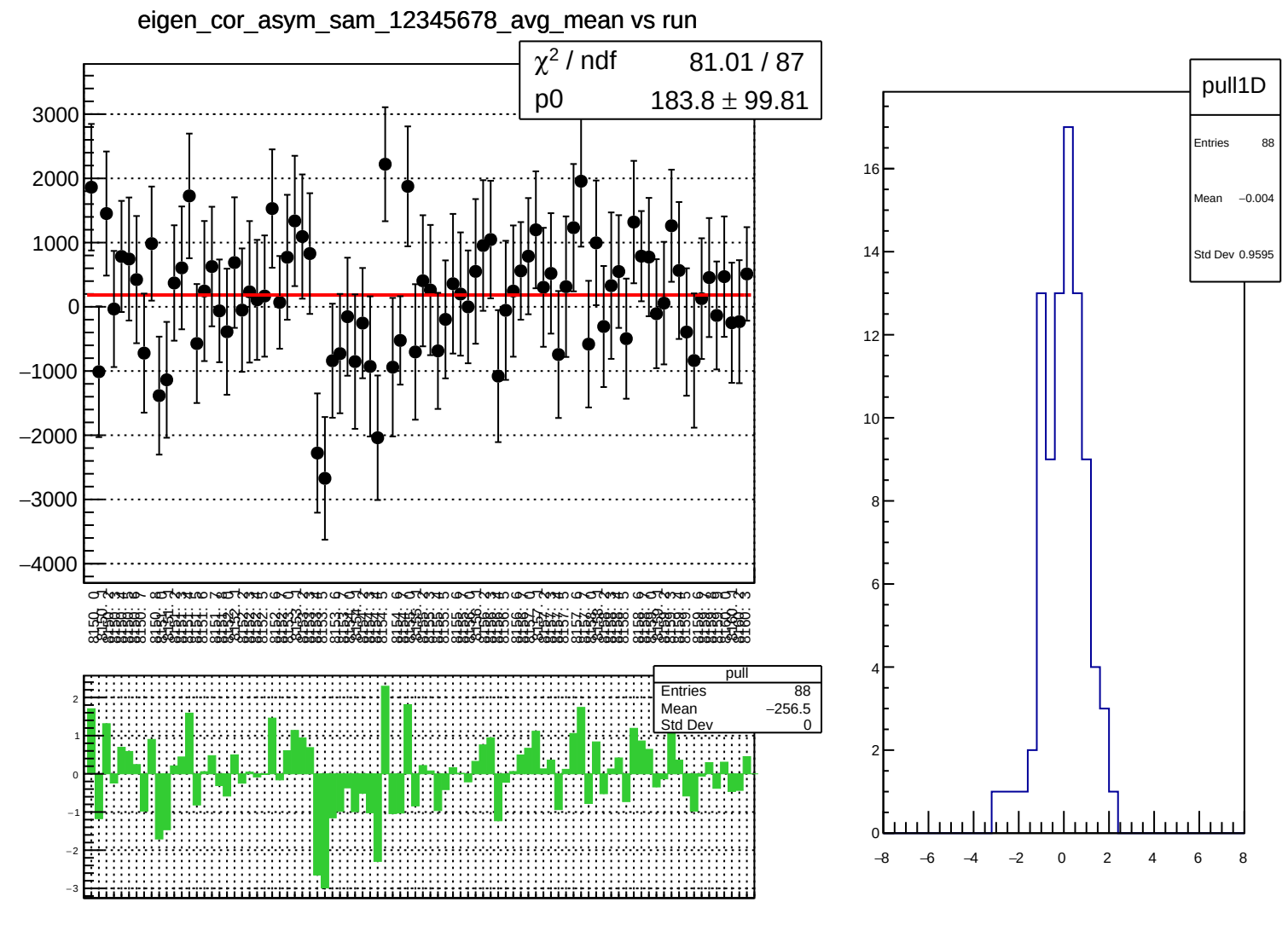

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 81.01 / 87
p0 183.8 ± 99.81
pull
Entries 88
Mean −256.5
Std Dev 0
pull1D
Entries 88
Mean −0.004
Std Dev 0.9595

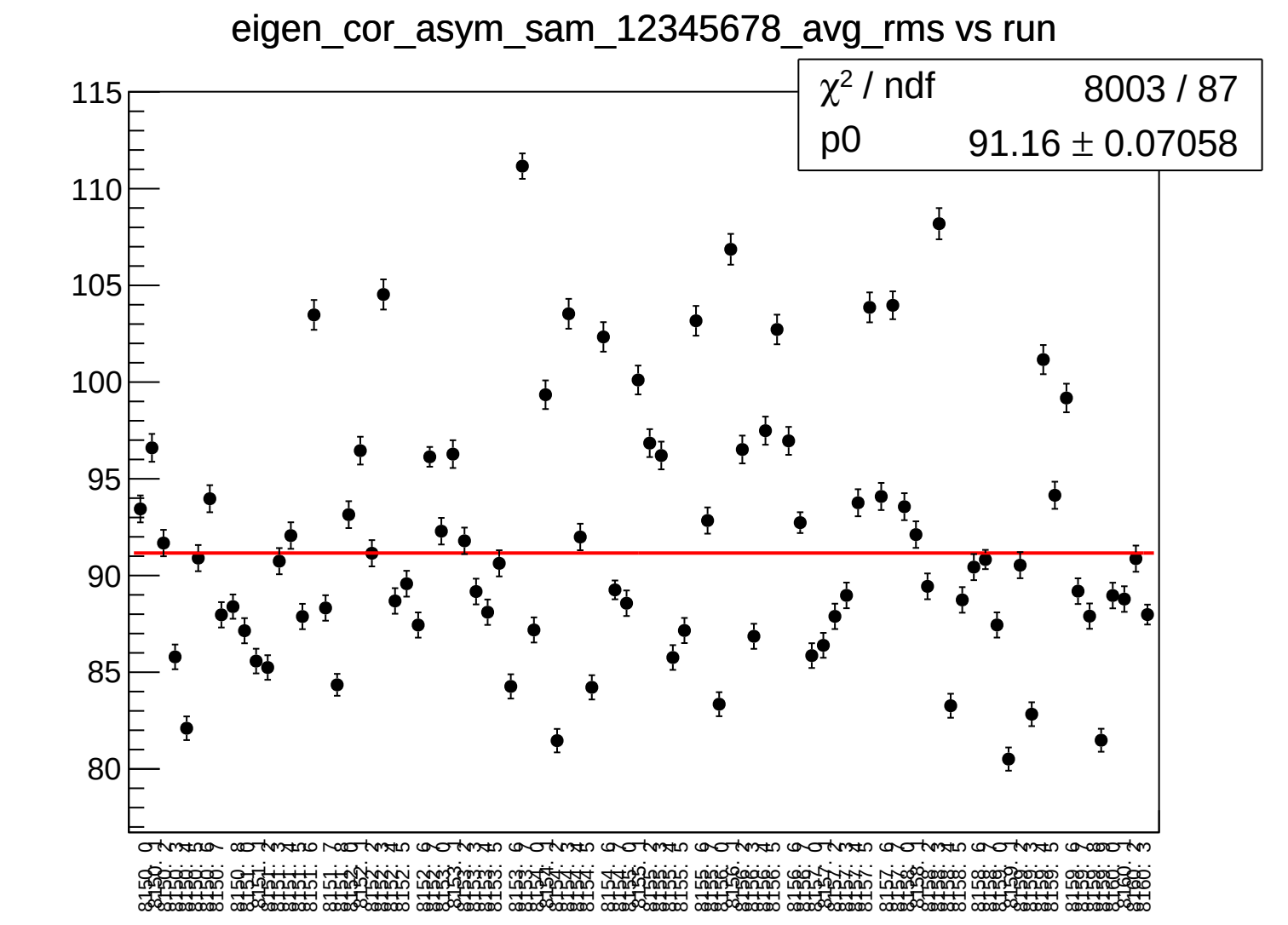

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 8003 / 87
p0 91.16 ± 0.07058
115
110
105
100
95
90
85
80

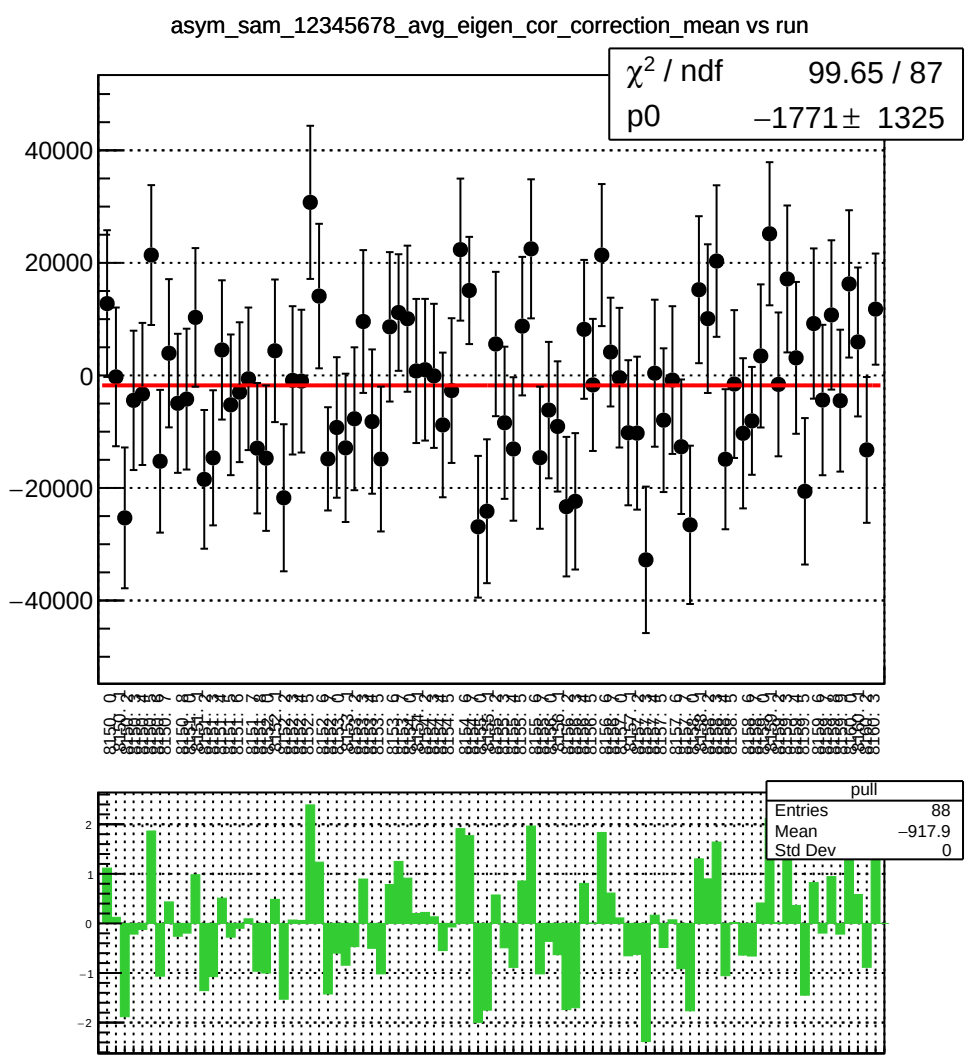

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 99.65 / 87
p0 −1771 ± 1325
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −917.9
Std Dev 0
2
1
0
−1
−2

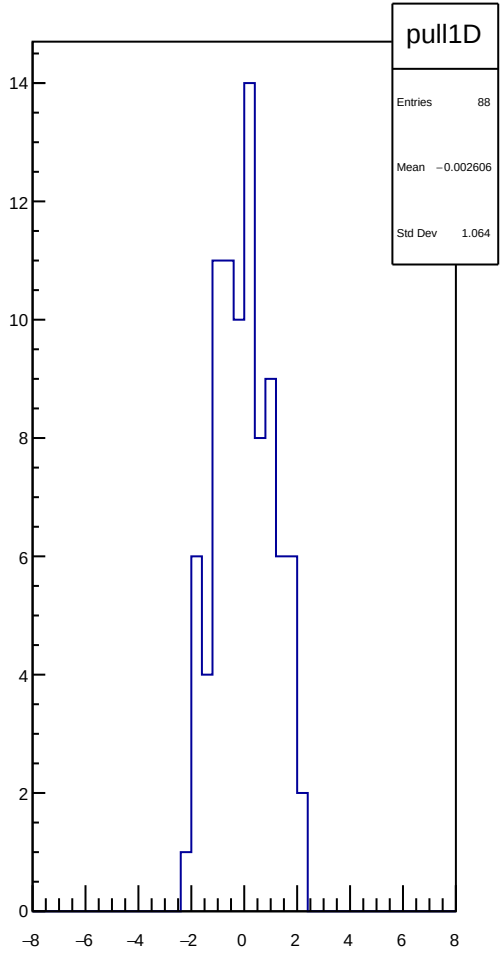

pull1D
Entries 88
Mean −0.002606
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

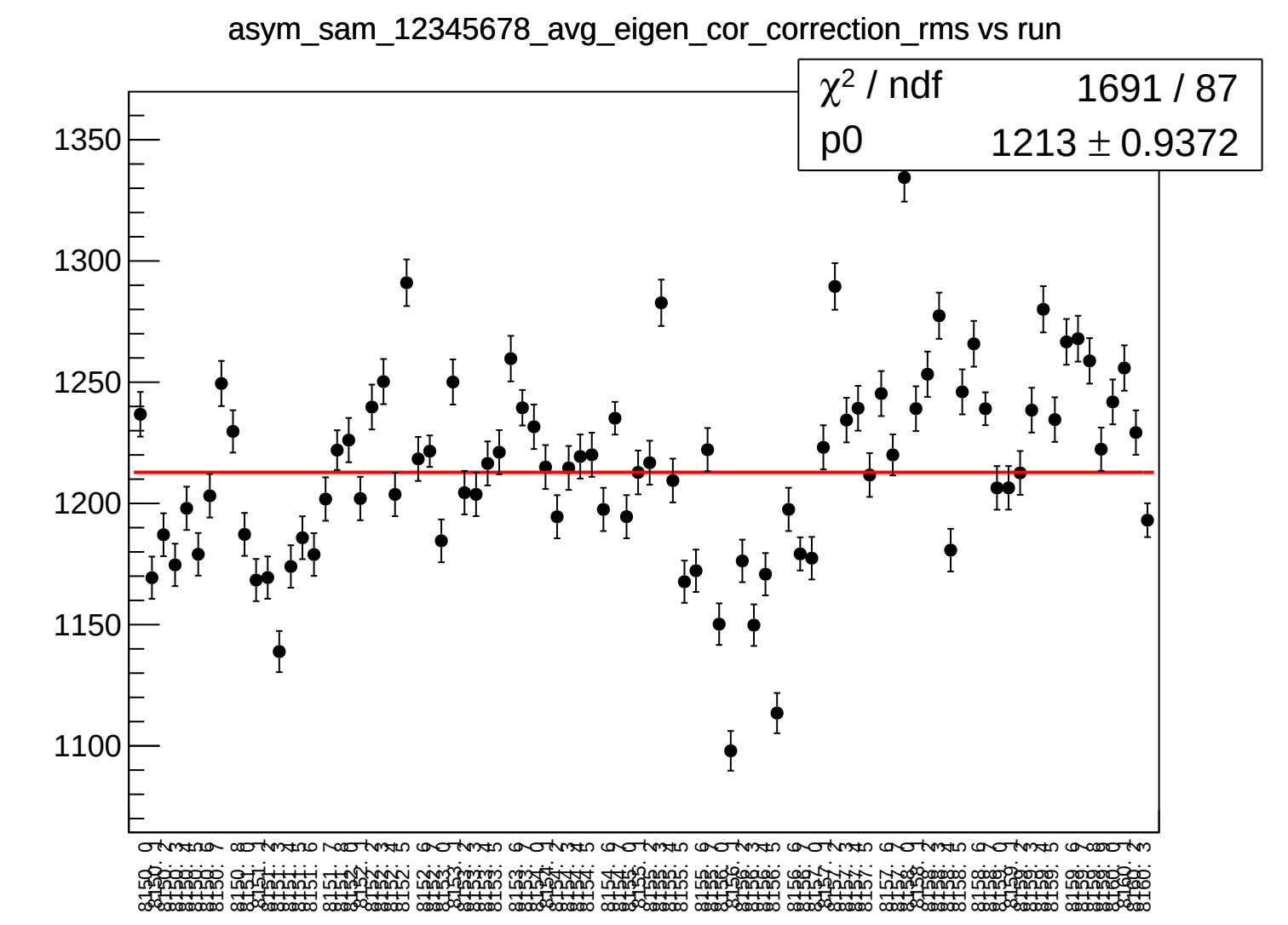

asym_sam_12345678_avg_cor_correction_rms vs run
χ^2 / ndf 1691 / 87
p0 1213 ± 0.9372
1350
1300
1250
1200
1150
1100

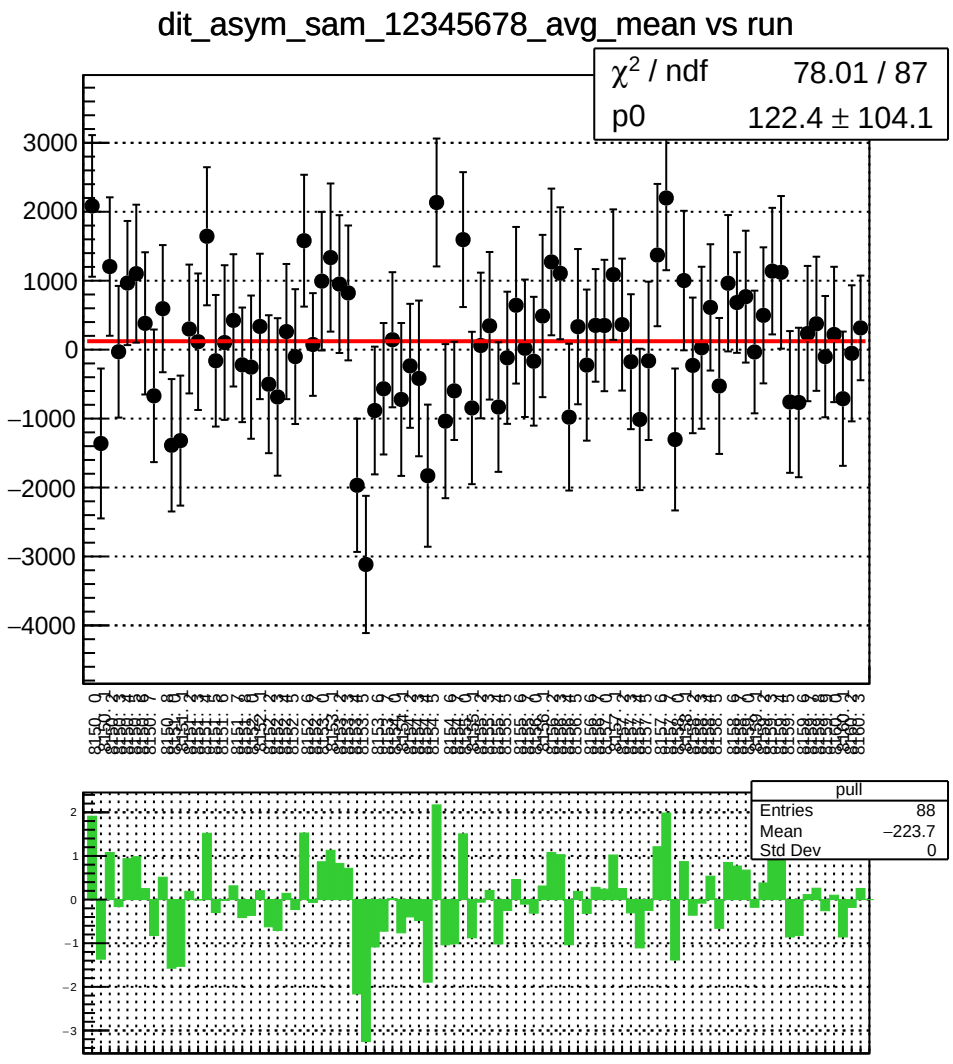

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 81.01 / 87
p0 183.8 ± 99.81
pull
Entries 88
Mean −256.5
Std Dev 0
pull1D
Entries 88
Mean −0.004
Std Dev 0.9595

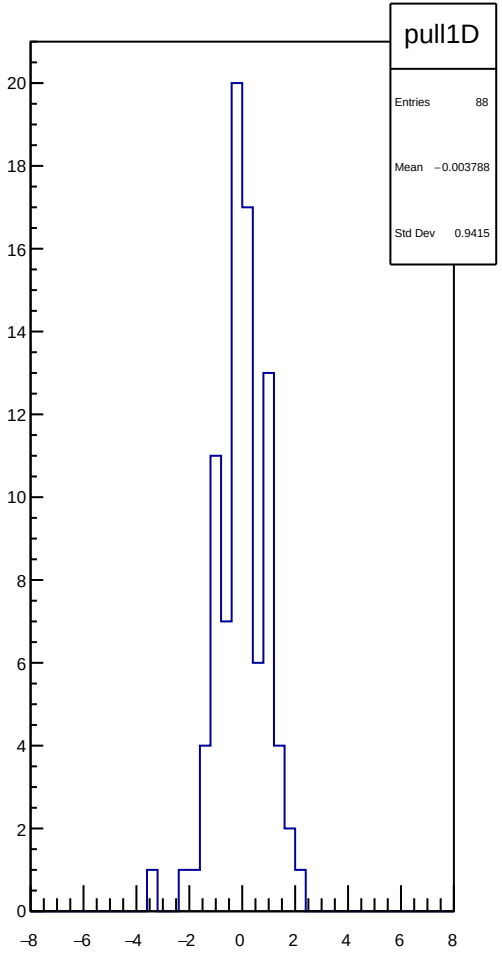

eigen_cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 8003 / 87
p0 91.16 ± 0.07058
115
110
105
100
95
90
85
80

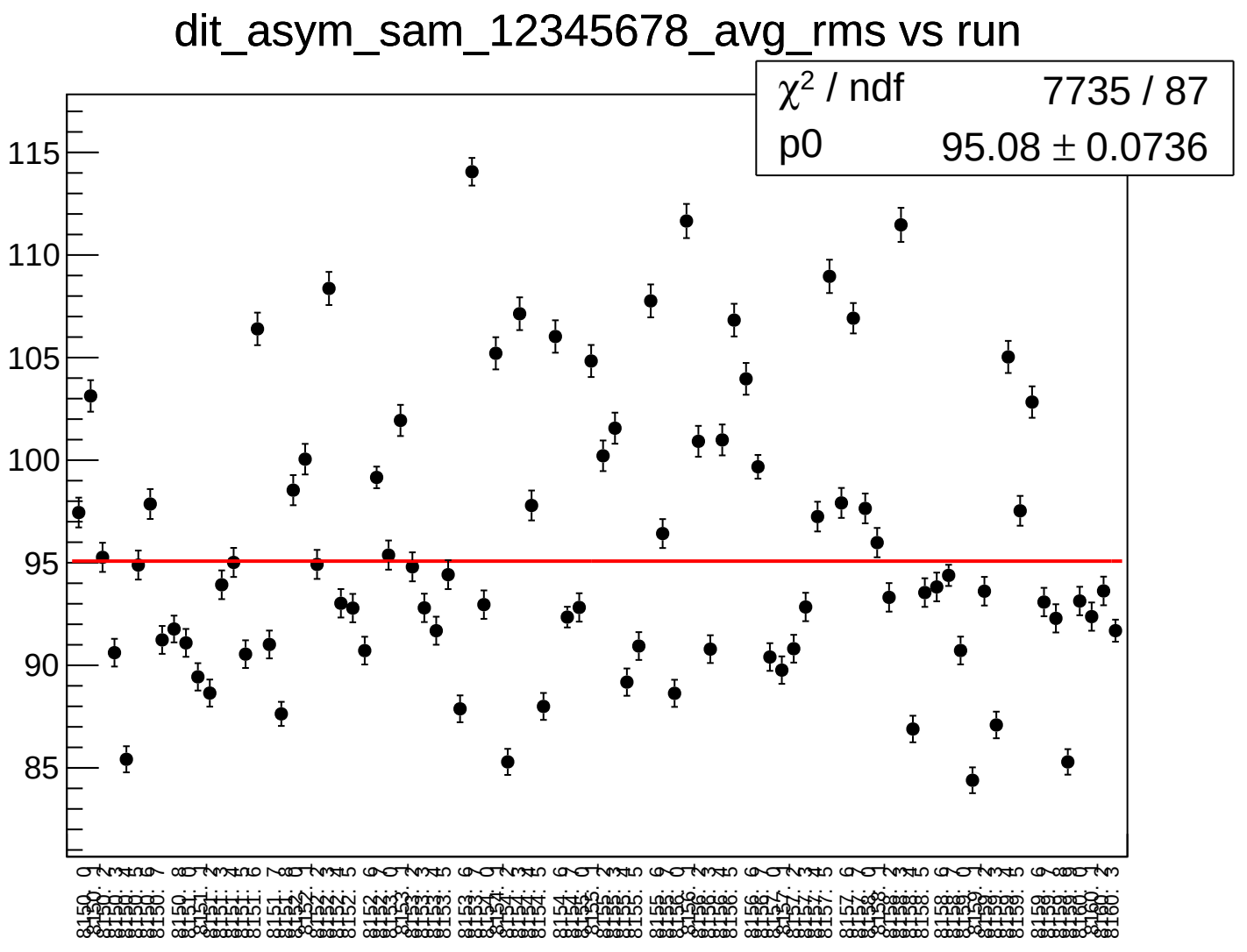

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.65 / 87
p0 −1771 ± 1325
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −917.9
Std Dev 0
2
1
0
−1
−2

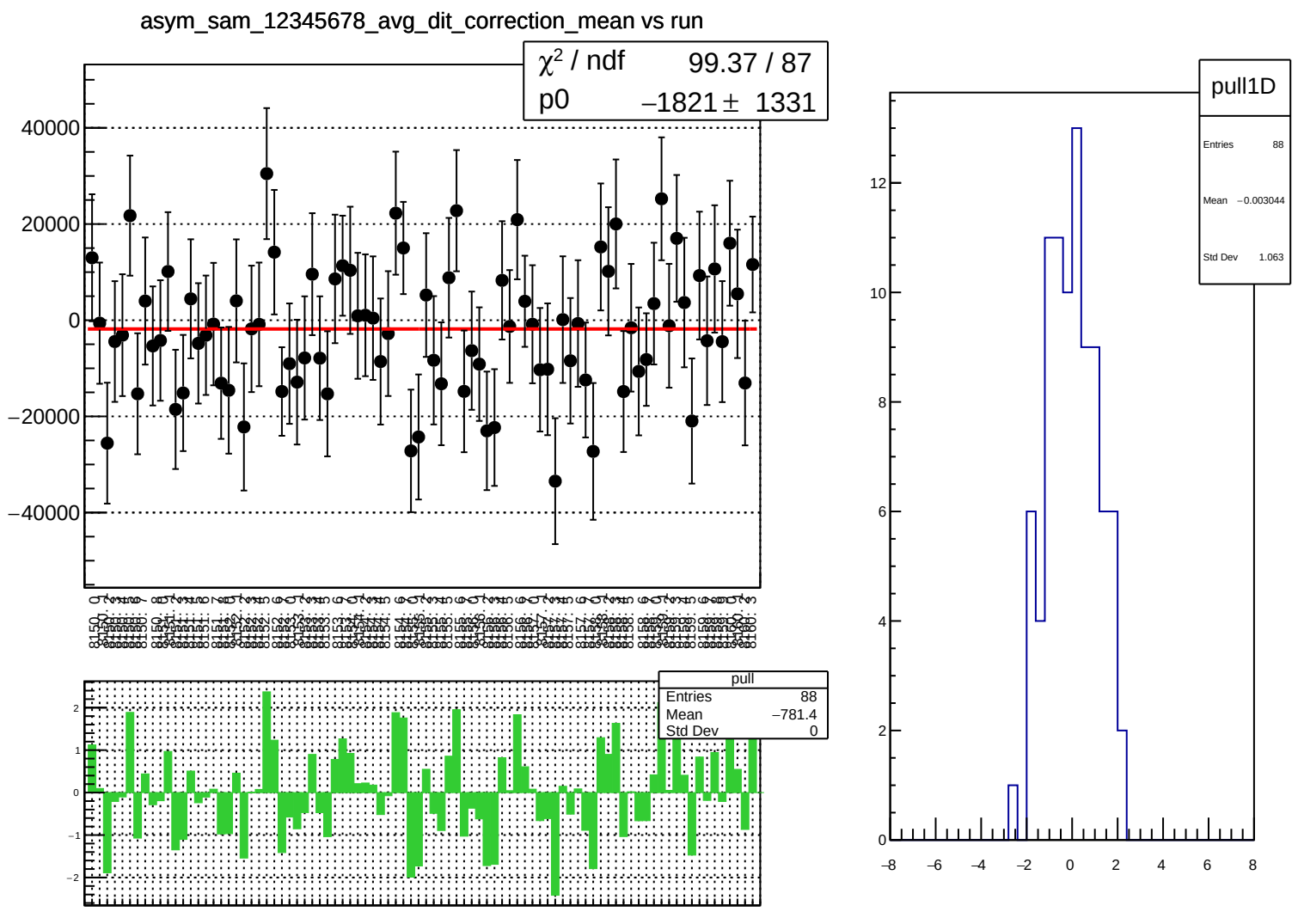

pull1D
Entries 88
Mean −0.002606
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

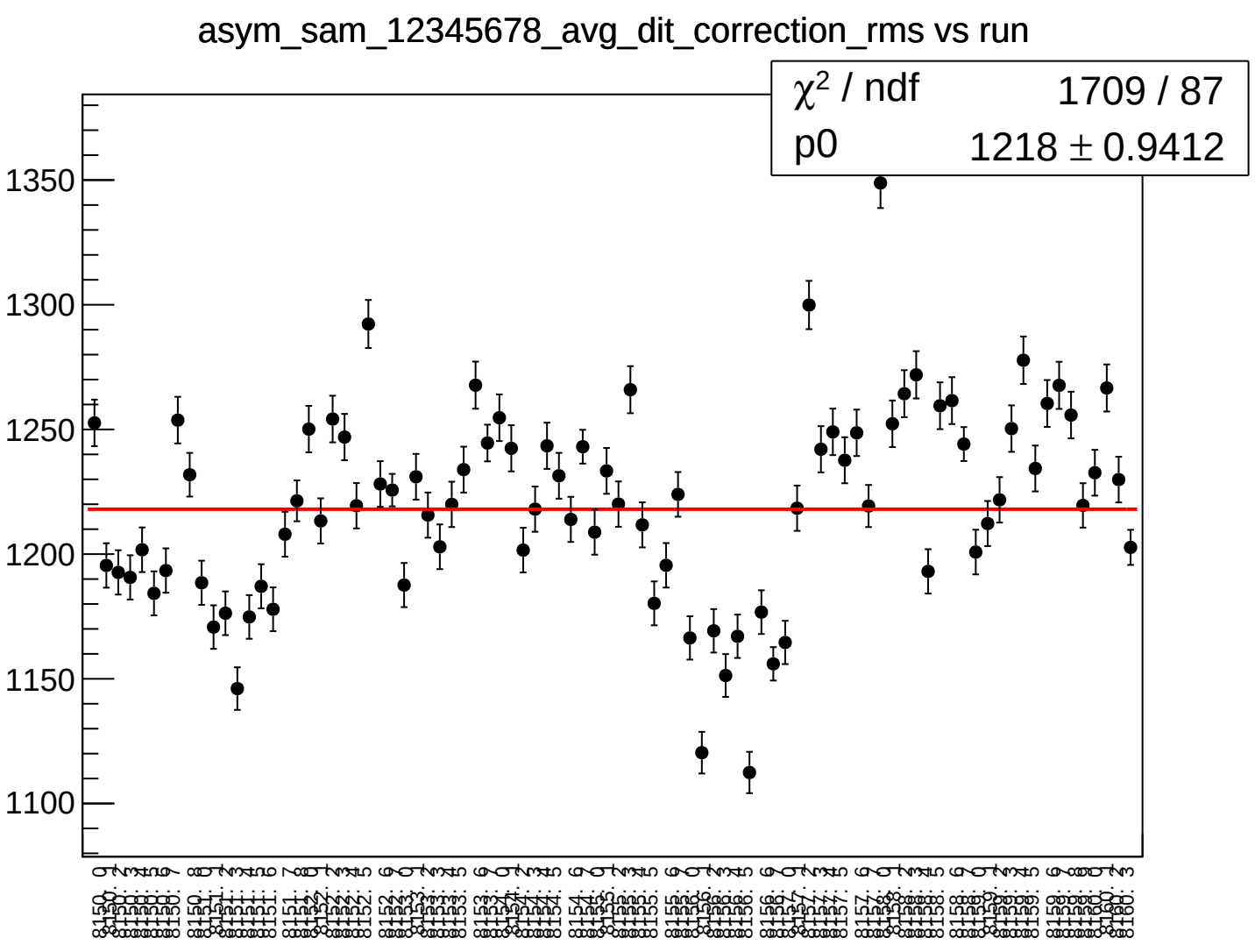

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1691 / 87
p0 1213 ± 0.9372
1350
1300
1250
1200
1150
1100

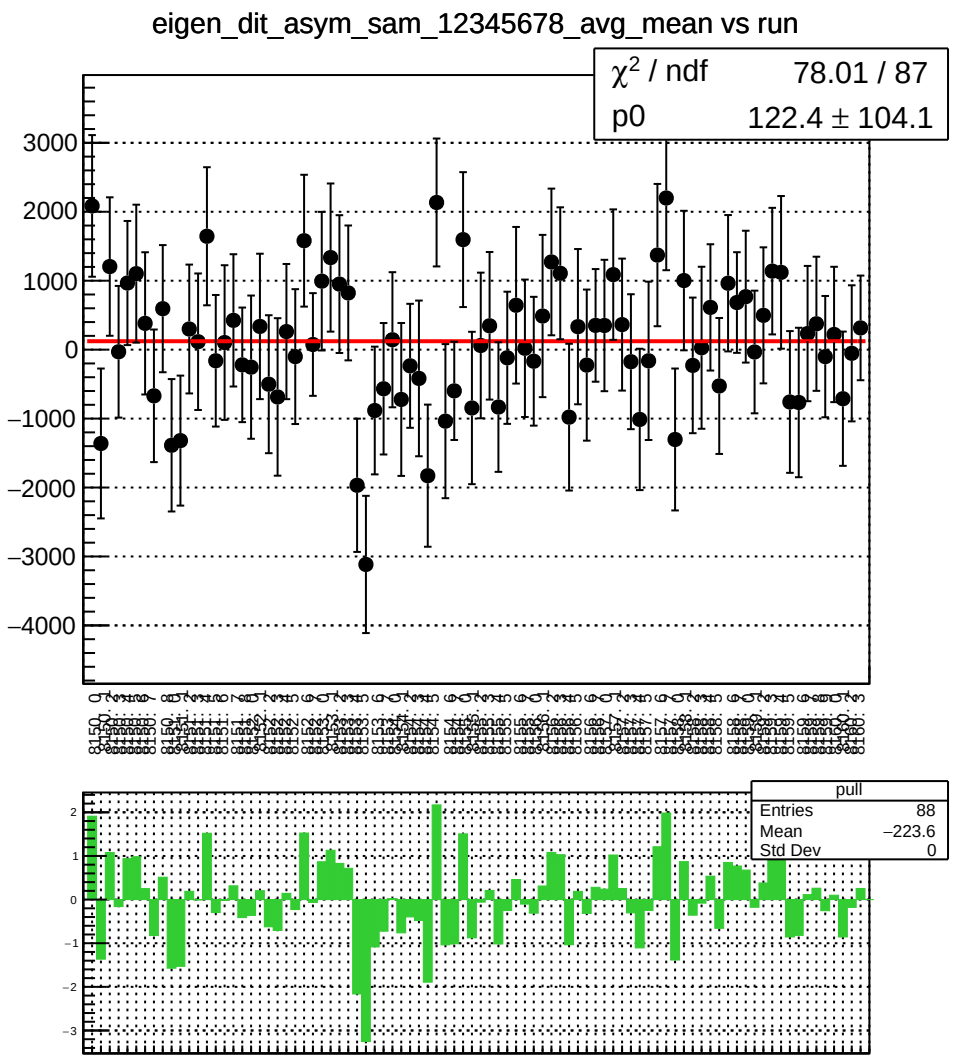

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 78.01 / 87
p0 122.4 ± 104.1
pull
Entries 88
Mean −223.7
Std Dev 0

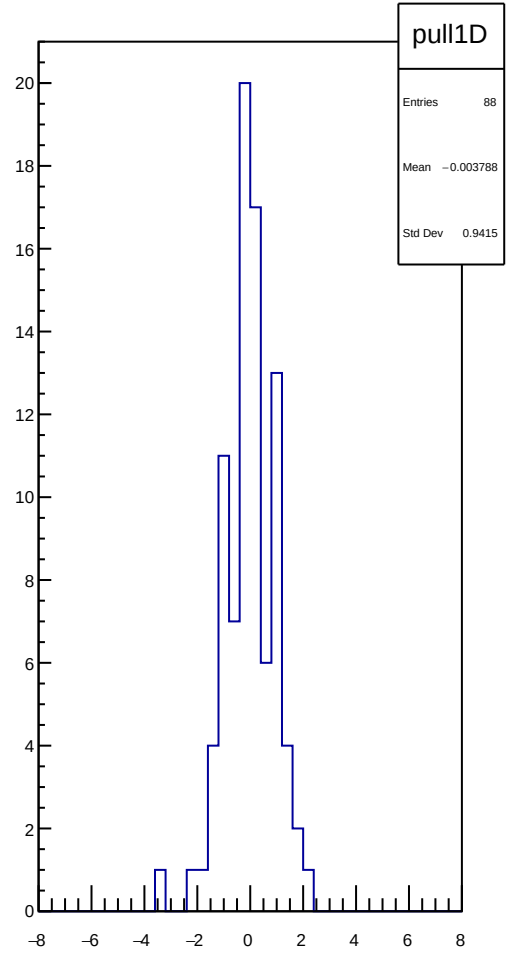

pull1D
Entries 88
Mean −0.003788
Std Dev 0.9415

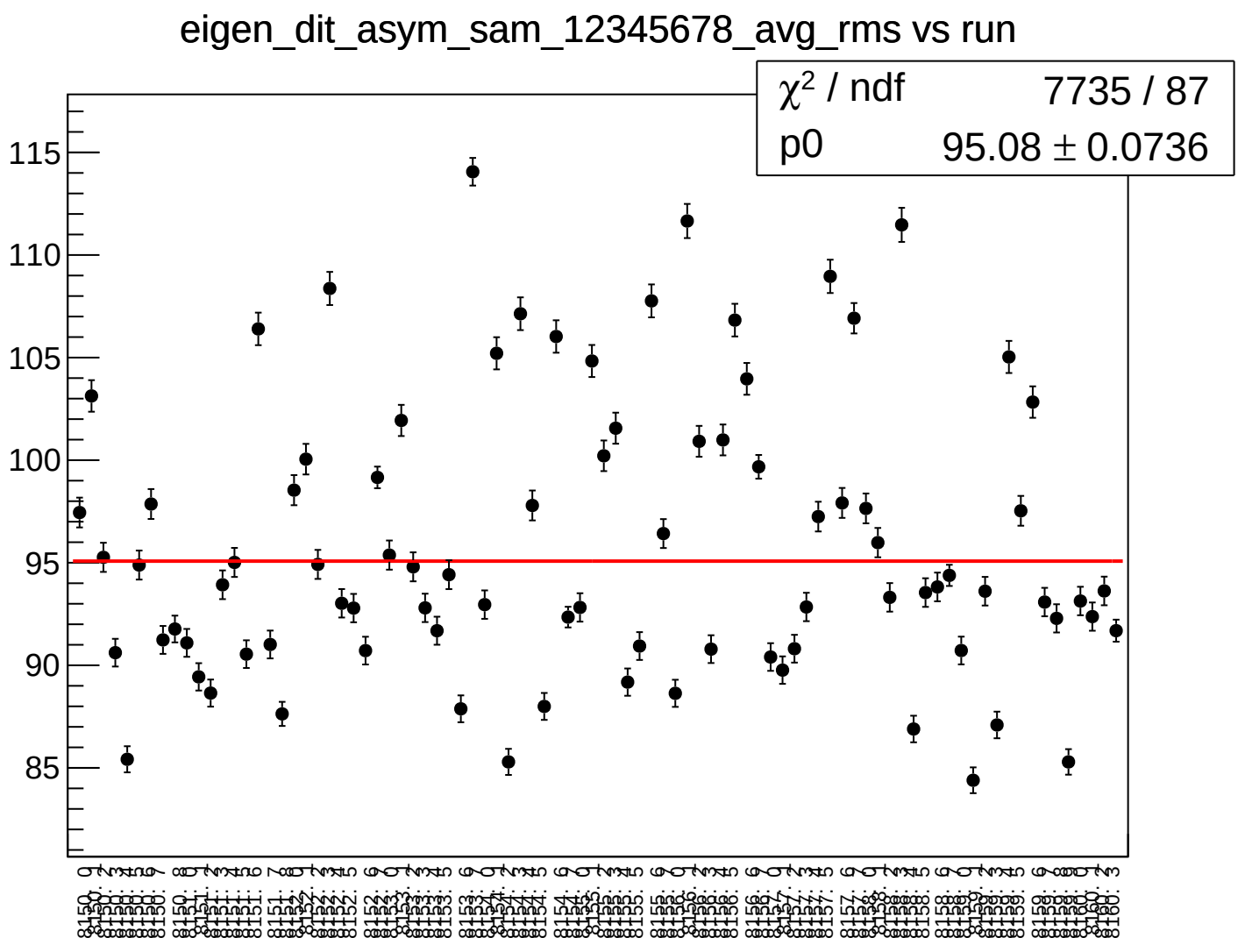

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 7735 / 87
p0 95.08 ± 0.0736
115
110
105
100
95
90
85

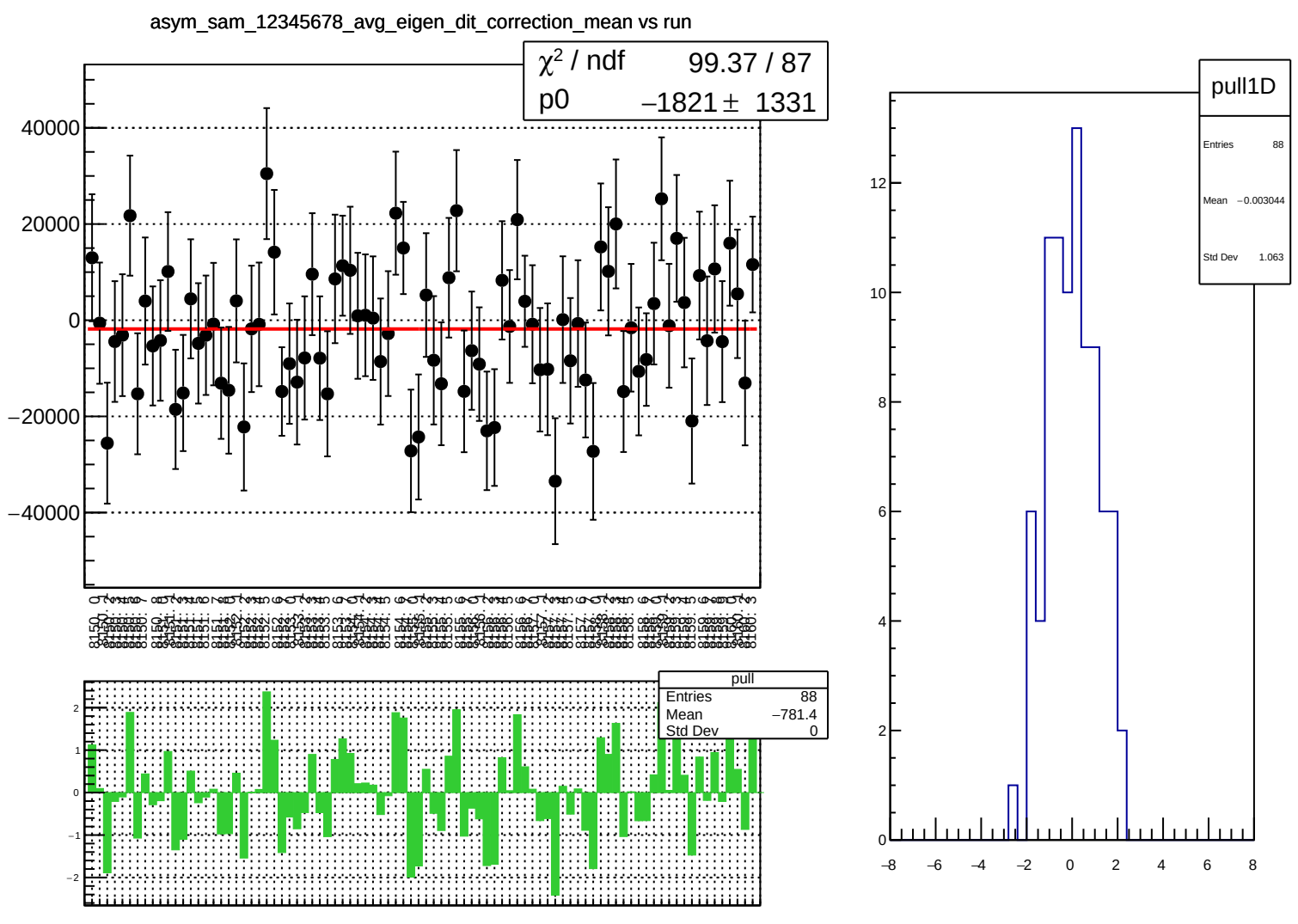

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 99.37 / 87
p0 −1821 ± 1331
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −781.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003044
Std Dev 1.063
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

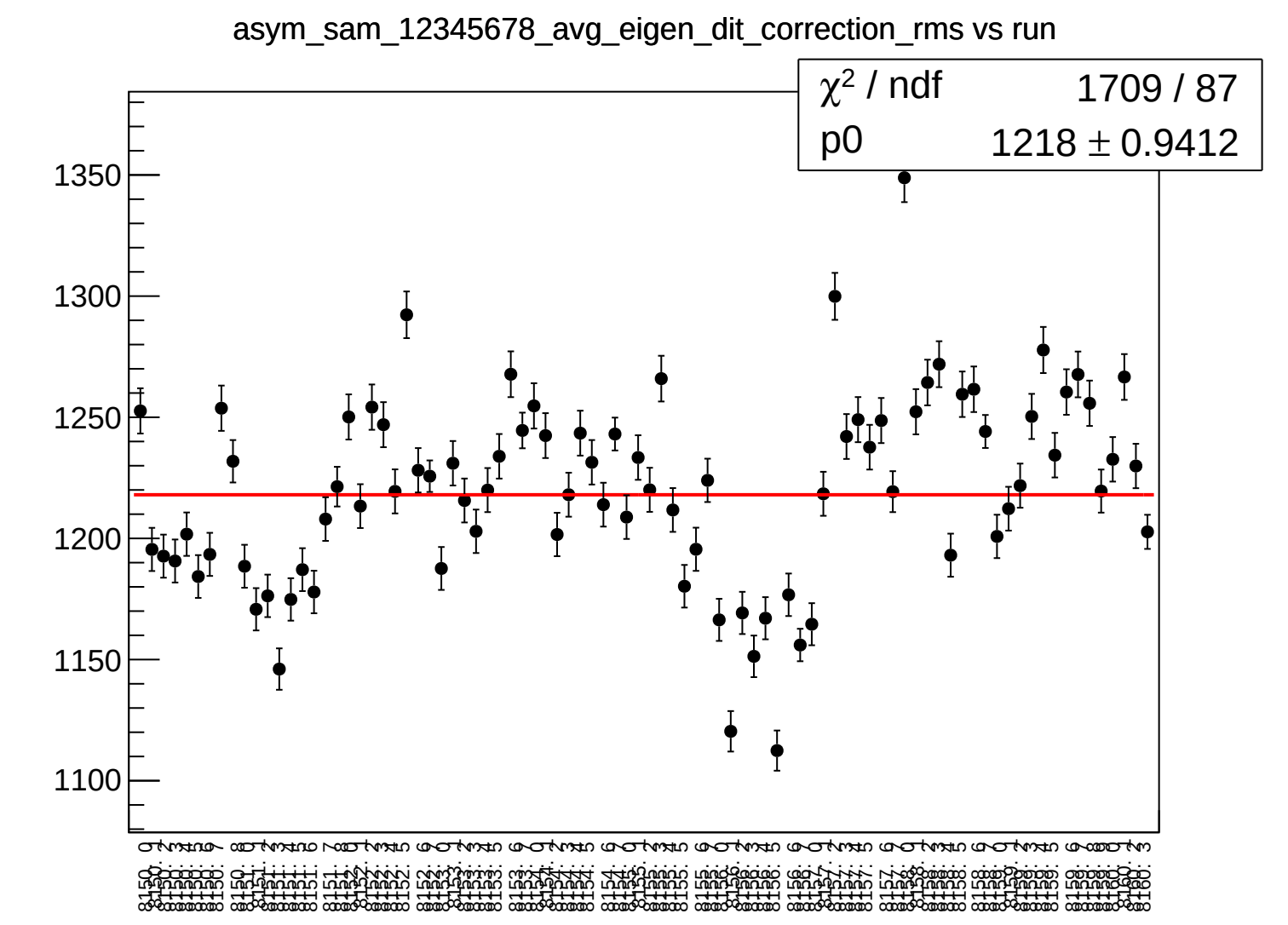

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1709 / 87
p0 1218 ± 0.9412
1350
1300
1250
1200
1150
1100

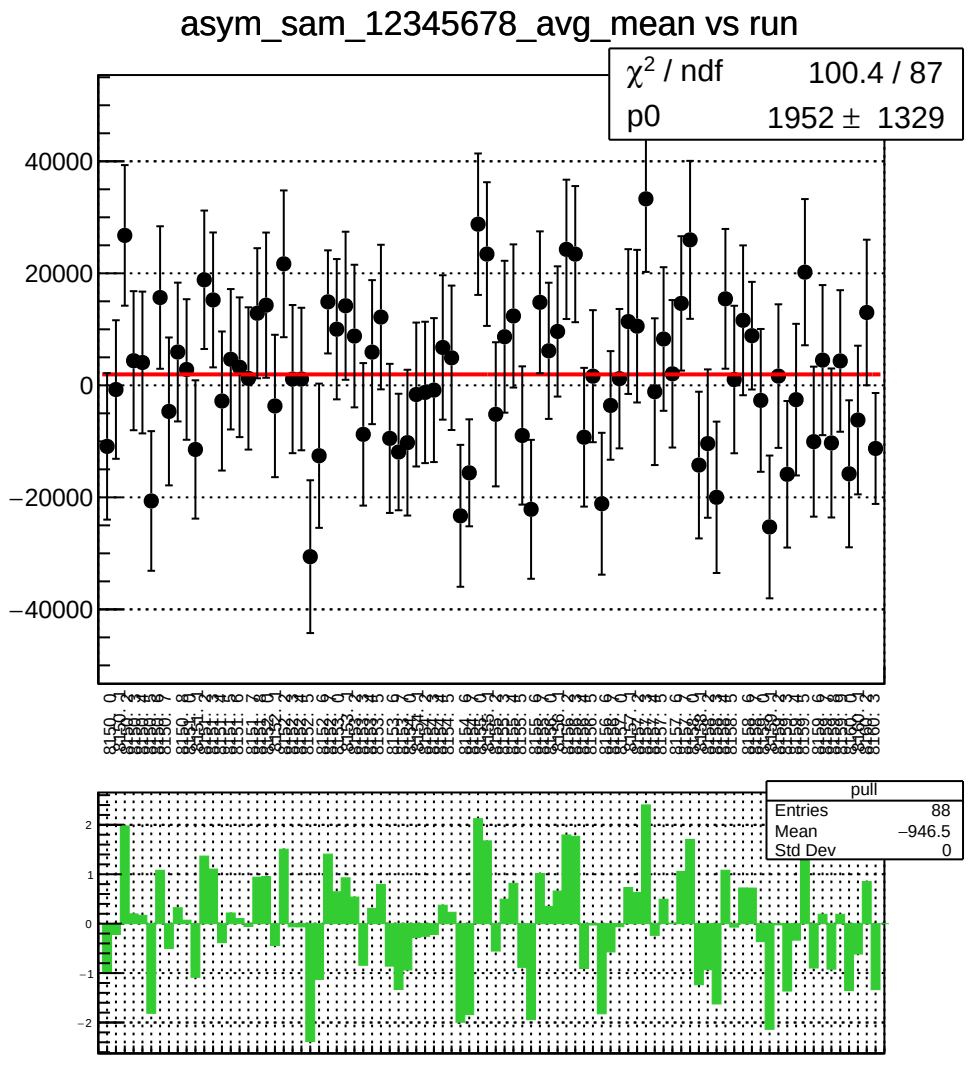

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 78.01 / 87
p0 122.4 ± 104.1
pull
Entries 88
Mean −223.6
Std Dev 0

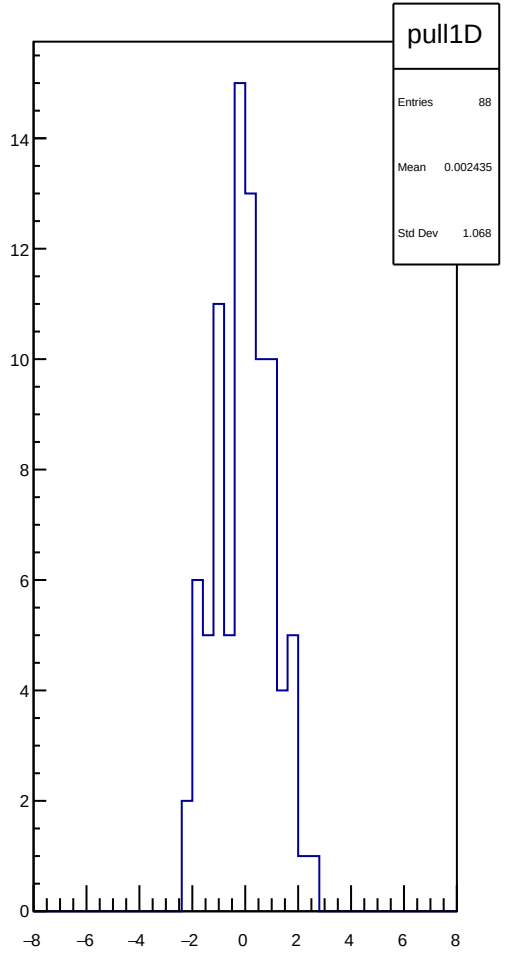

pull1D
Entries 88
Mean −0.003788
Std Dev 0.9415

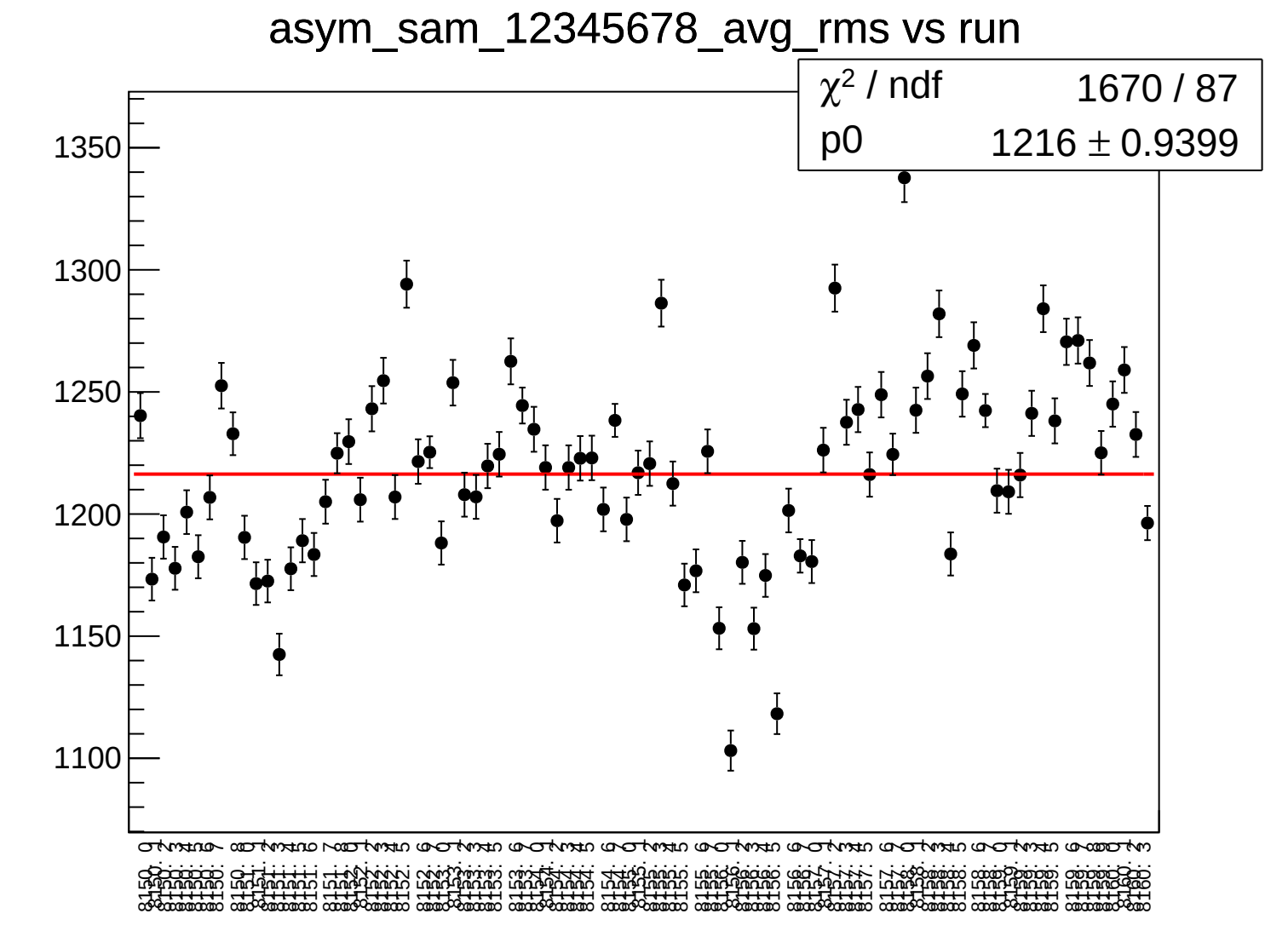

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 7735 / 87
p0 95.08 ± 0.0736
115
110
105
100
95
90
85

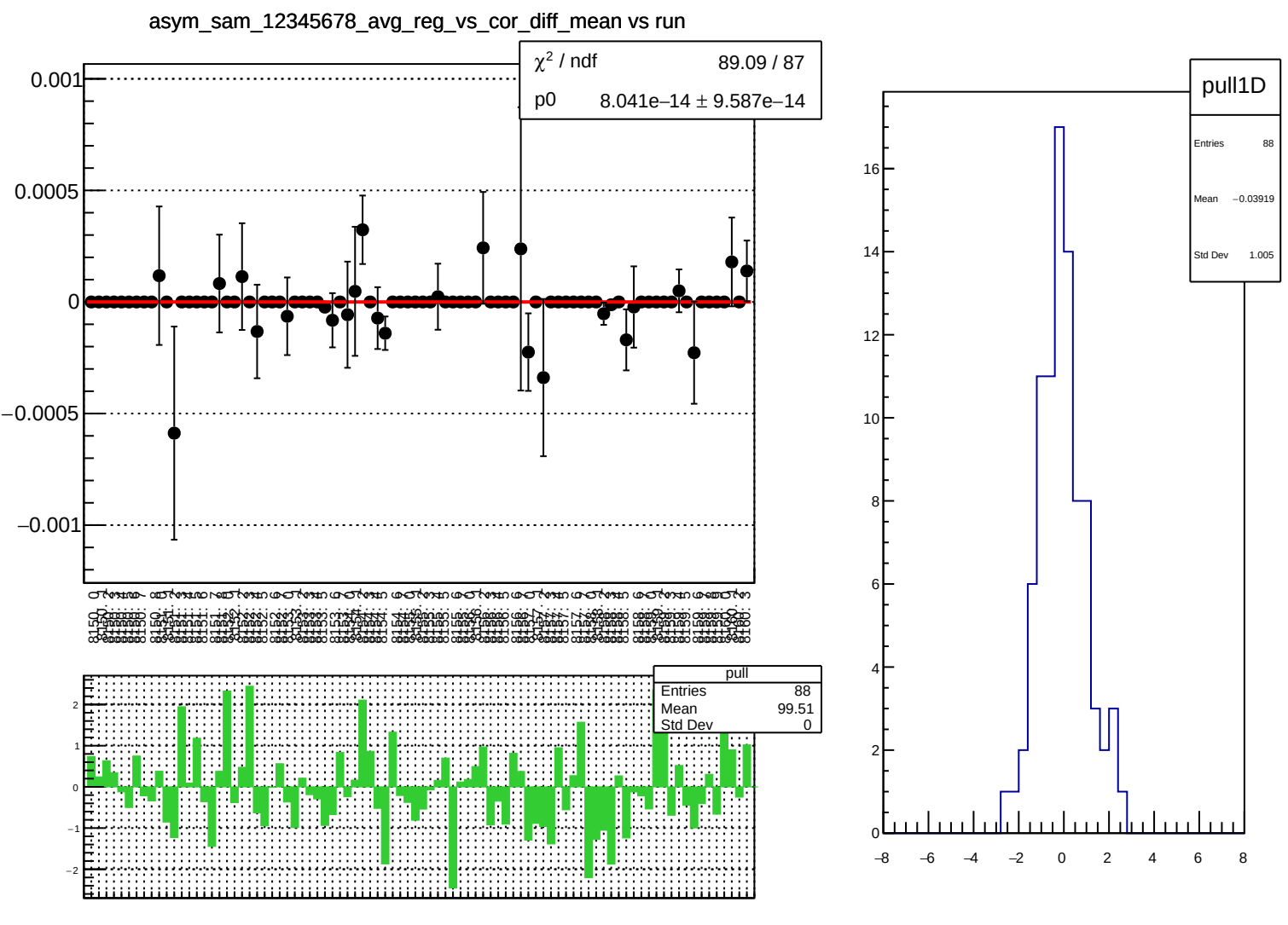

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.37 / 87
p0 −1821 ± 1331
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −781.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.003044
Std Dev 1.063
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

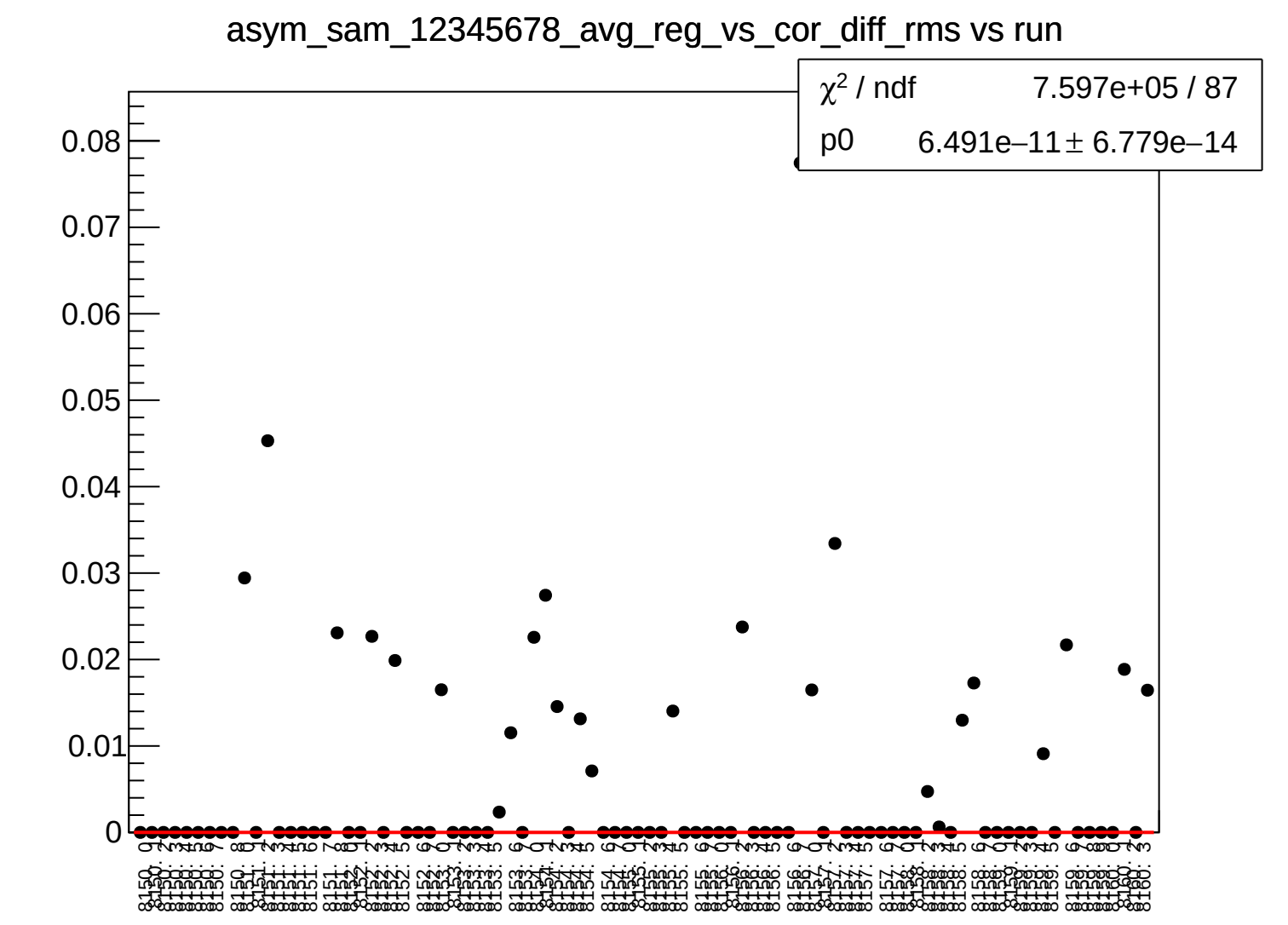

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1709 / 87
p0 1218 ± 0.9412
1350
1300
1250
1200
1150
1100

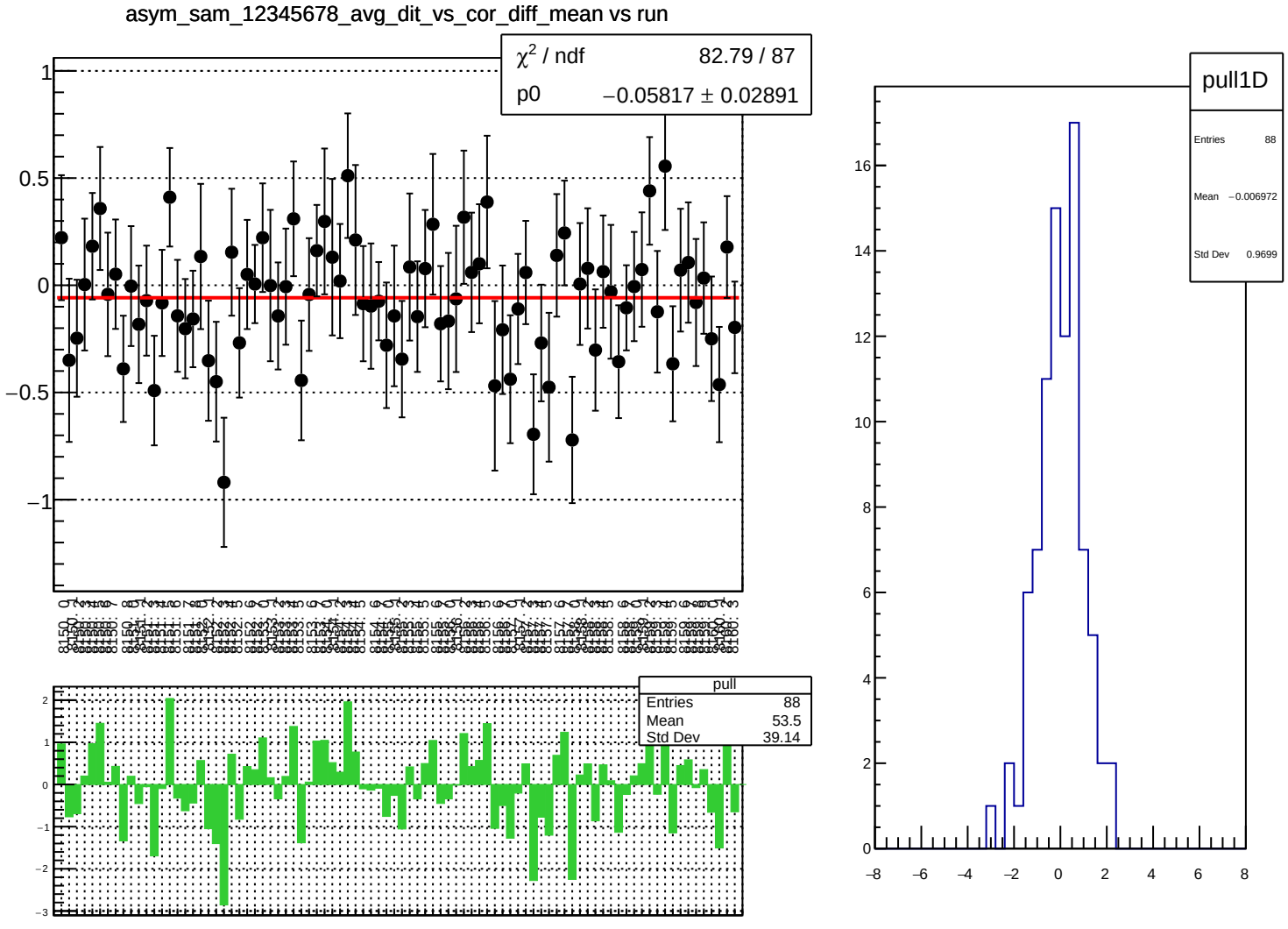

asym_sam_12345678_avg_mean vs run
χ² / ndf 100.4 / 87
p0 1952 ± 1329
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −946.5
Std Dev 0
2
1
0
−1
−2

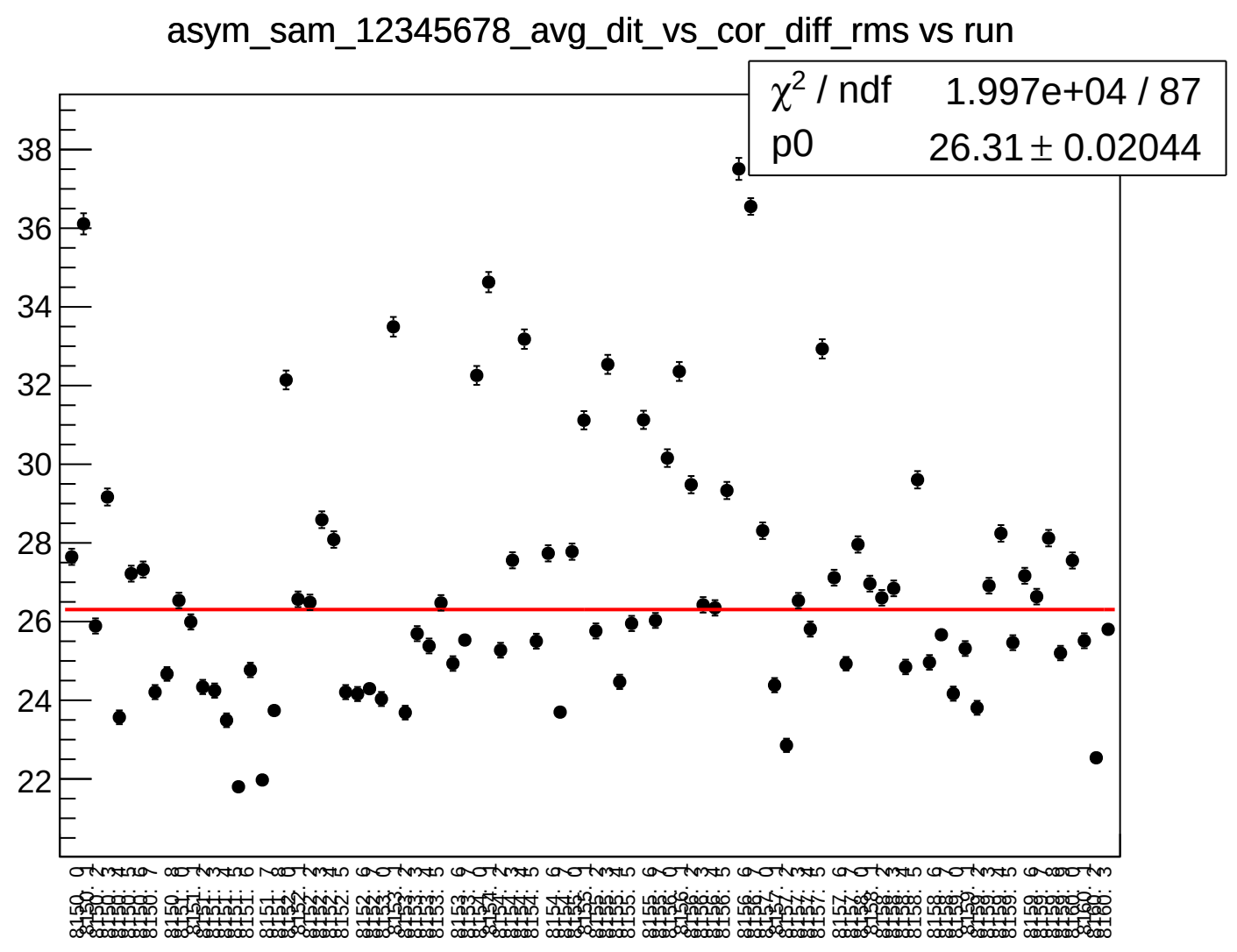

pull1D
Entries 88
Mean 0.002435
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

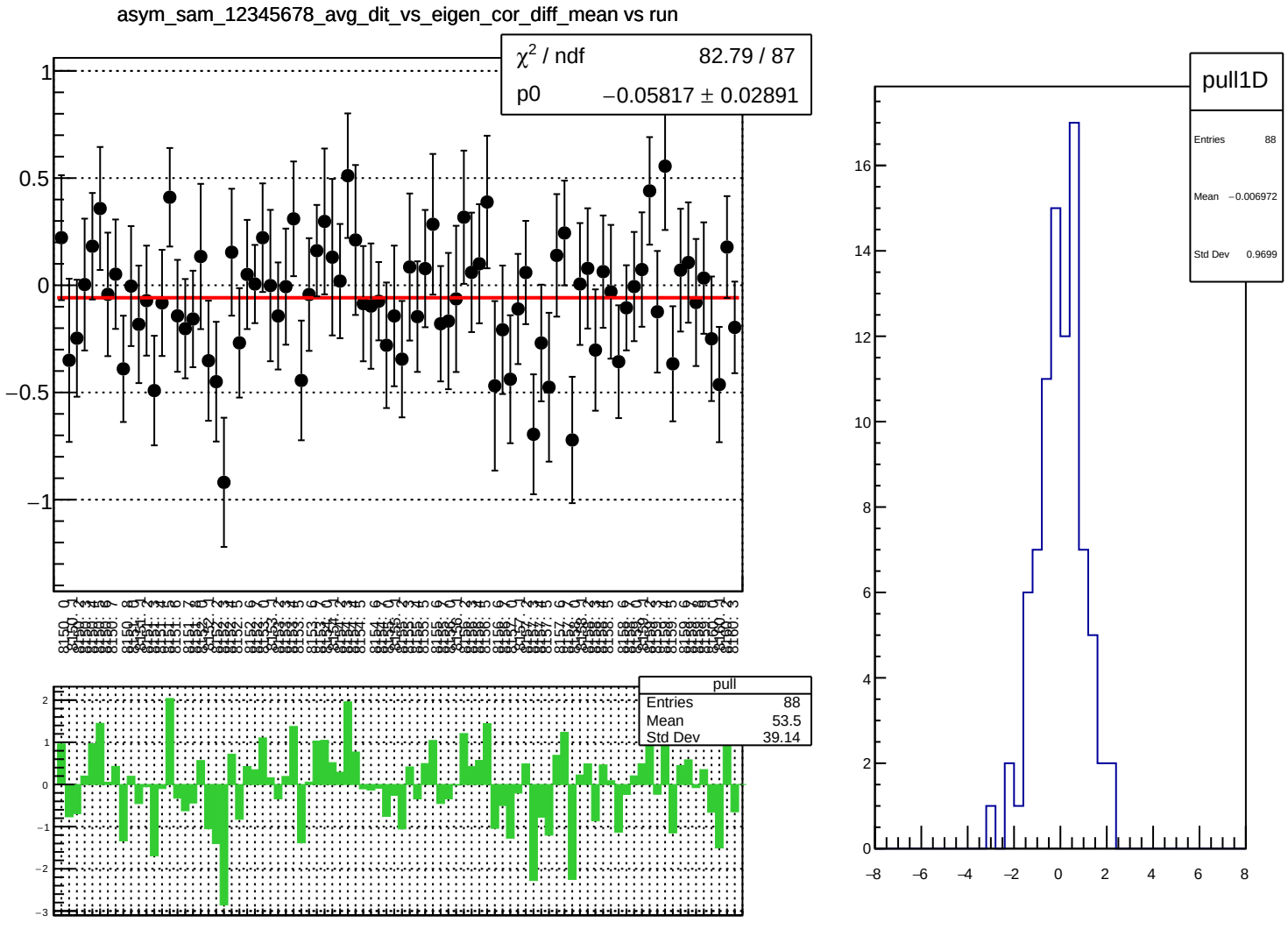

asym_sam_12345678_avg_rms vs run
χ² / ndf 1670 / 87
p0 1216 ± 0.9399
1350
1300
1250
1200
1150
1100

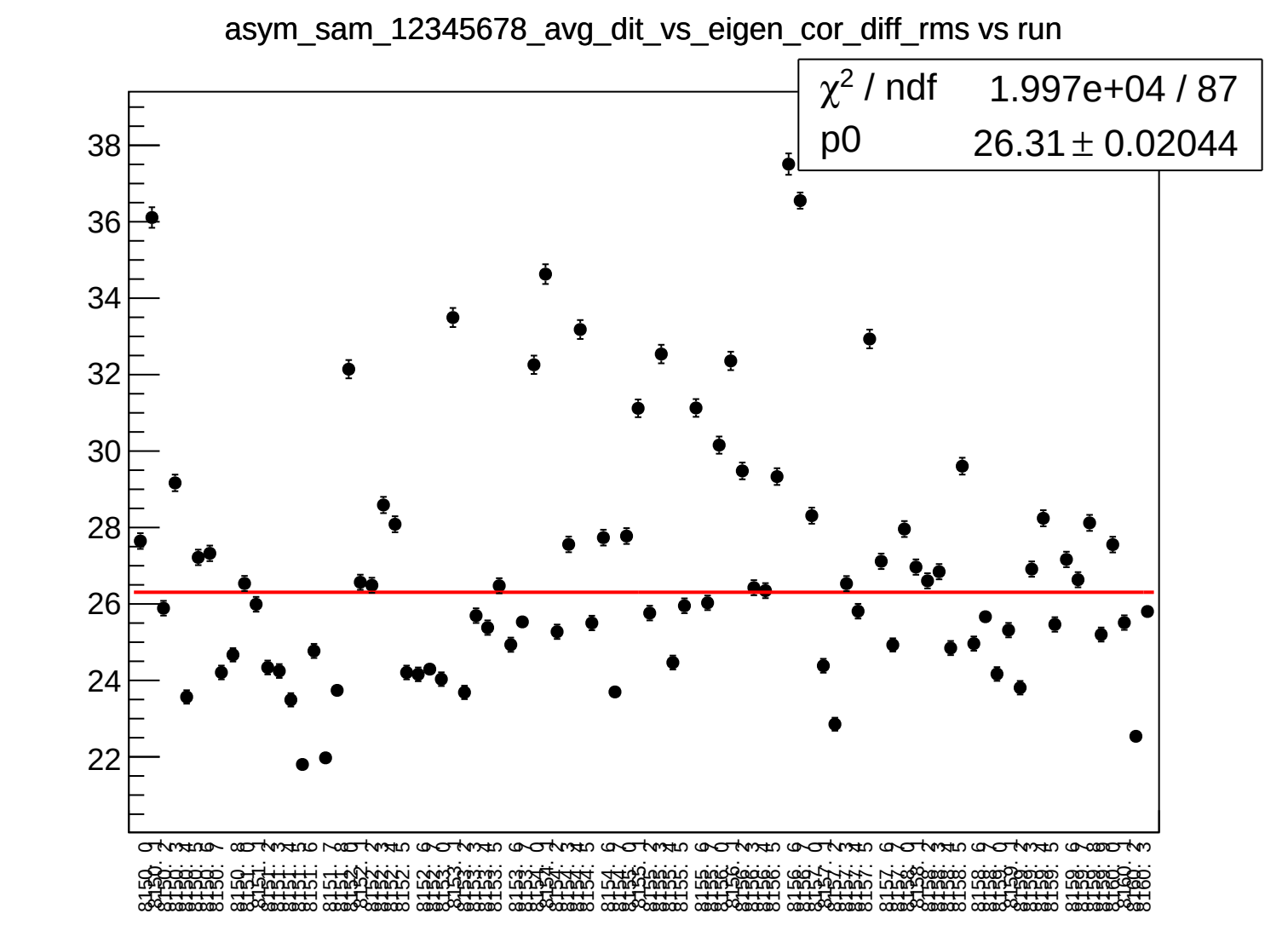

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.09 / 87
p0 8.041e−14 ± 9.587e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 99.51
Std Dev 0
pull1D
Entries 88
Mean −0.03919
Std Dev 1.005

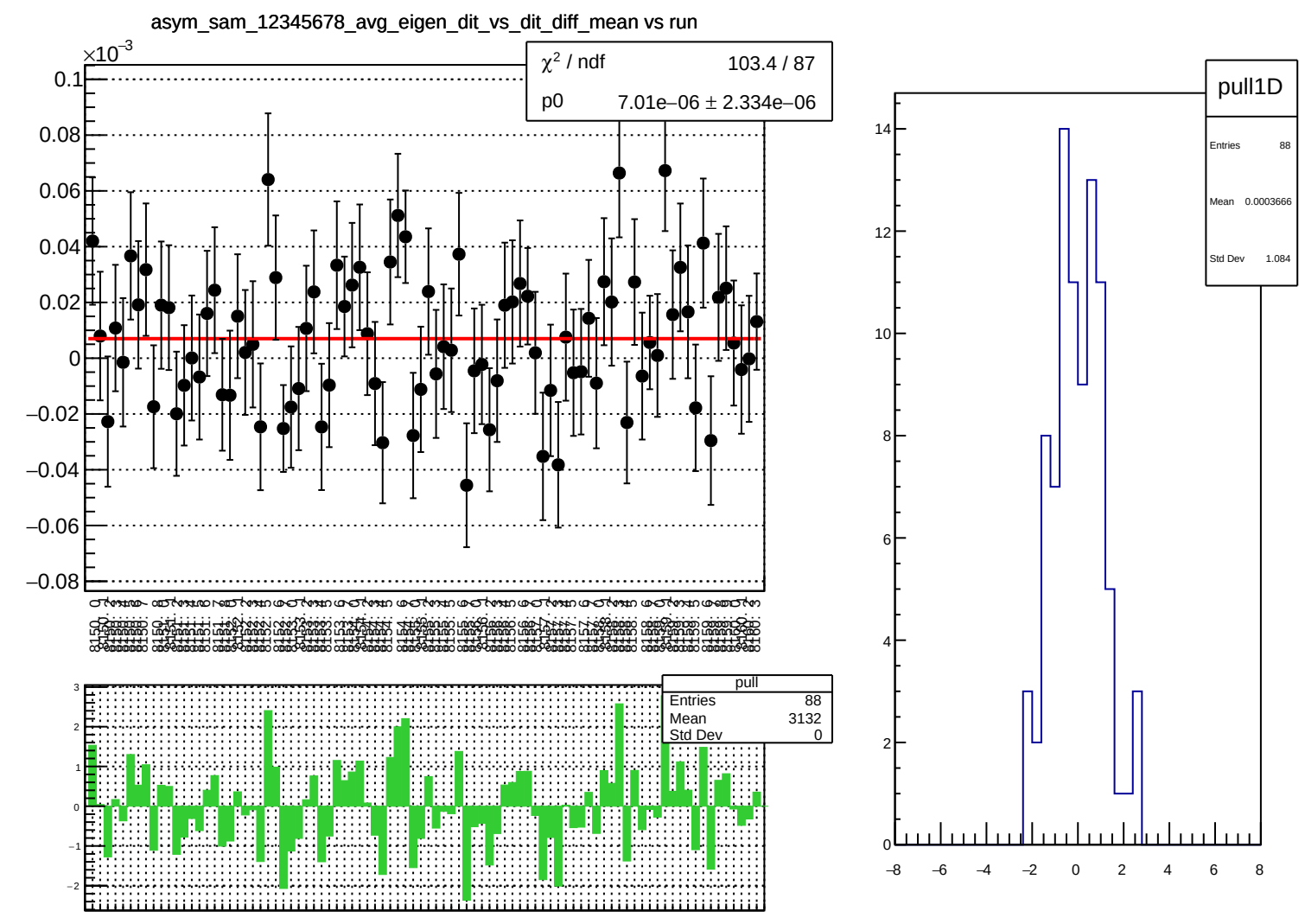

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.597e+05 / 87
p0 6.491e−11 ± 6.779e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

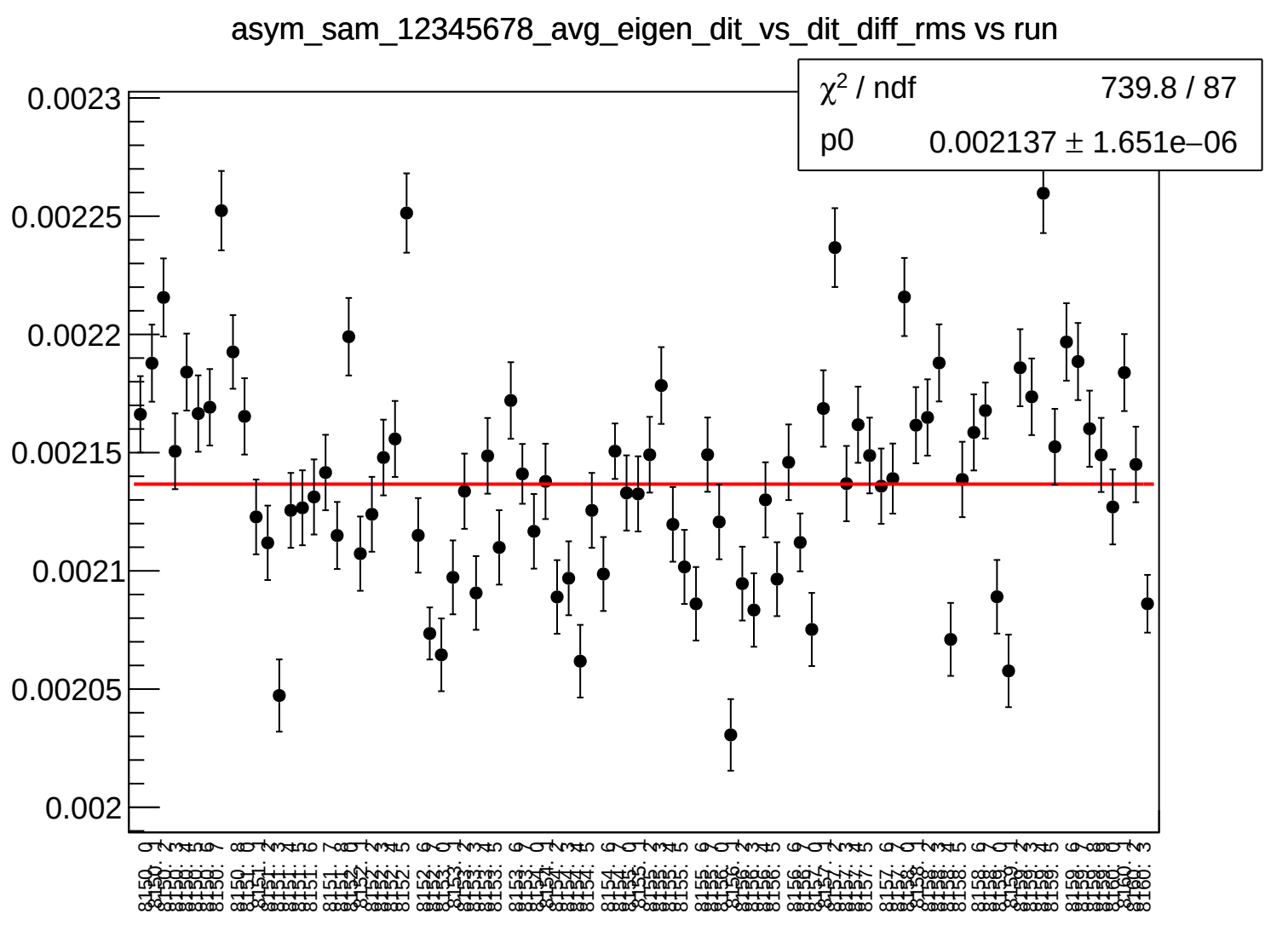

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.79 / 87
p0 −0.05817 ± 0.02891
pull
Entries 88
Mean 53.5
Std Dev 39.14
pull1D
Entries 88
Mean −0.006972
Std Dev 0.9699

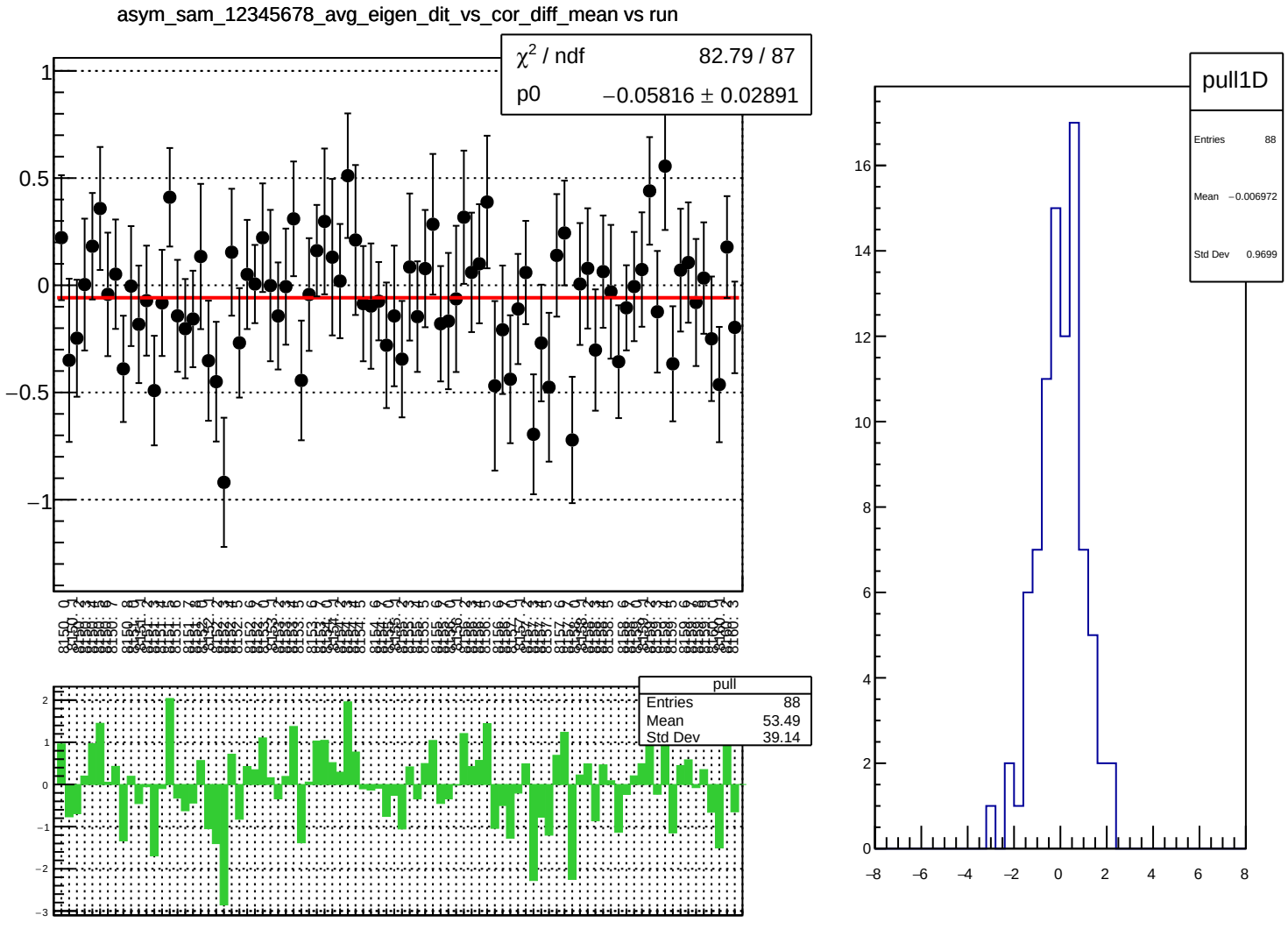

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.997e+04 / 87
p0 26.31 ± 0.02044
38
36
34
32
30
28
26
24
22

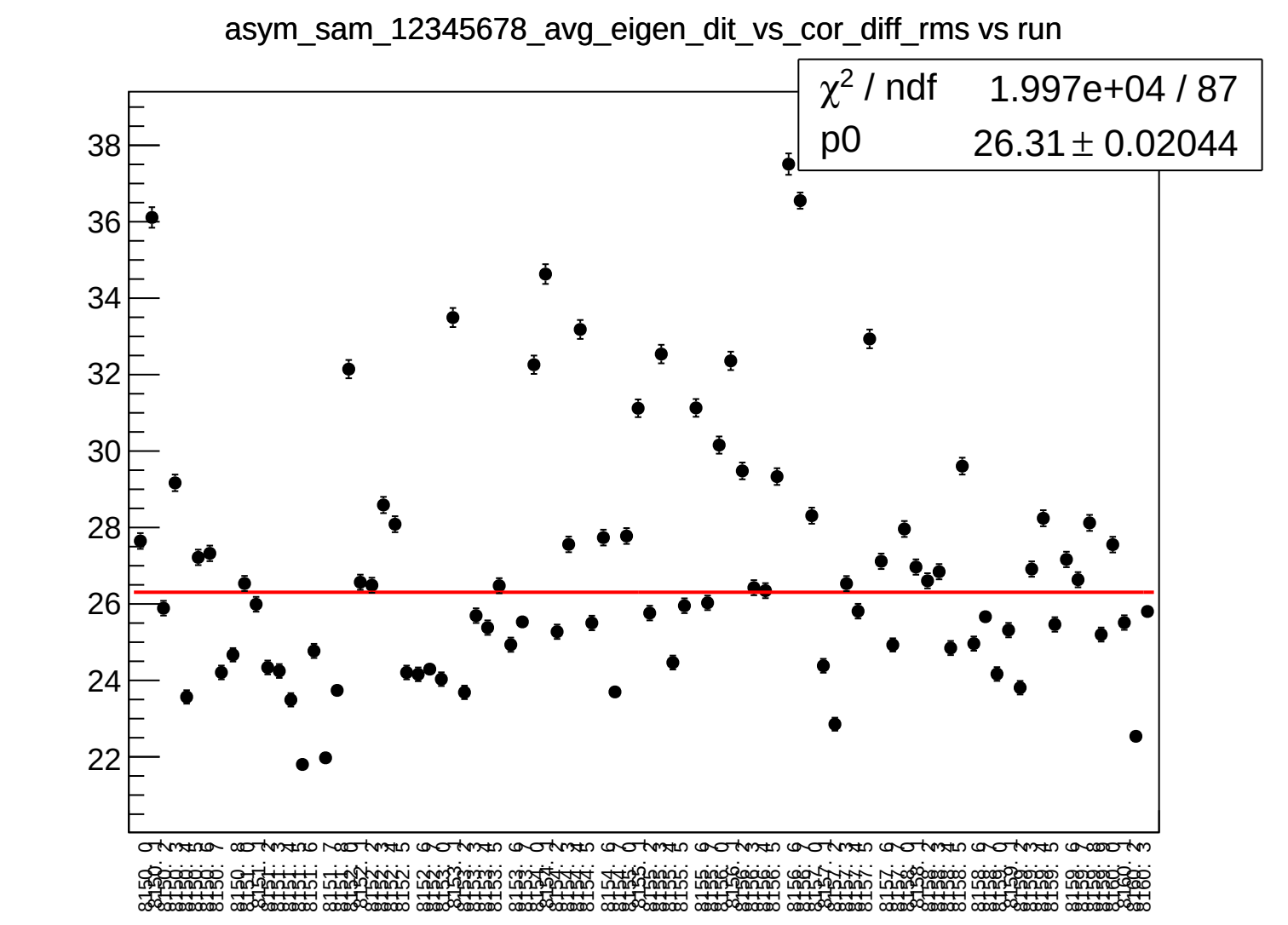

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.79 / 87
p0 −0.05817 ± 0.02891
pull
Entries 88
Mean 53.5
Std Dev 39.14
pull1D
Entries 88
Mean −0.006972
Std Dev 0.9699

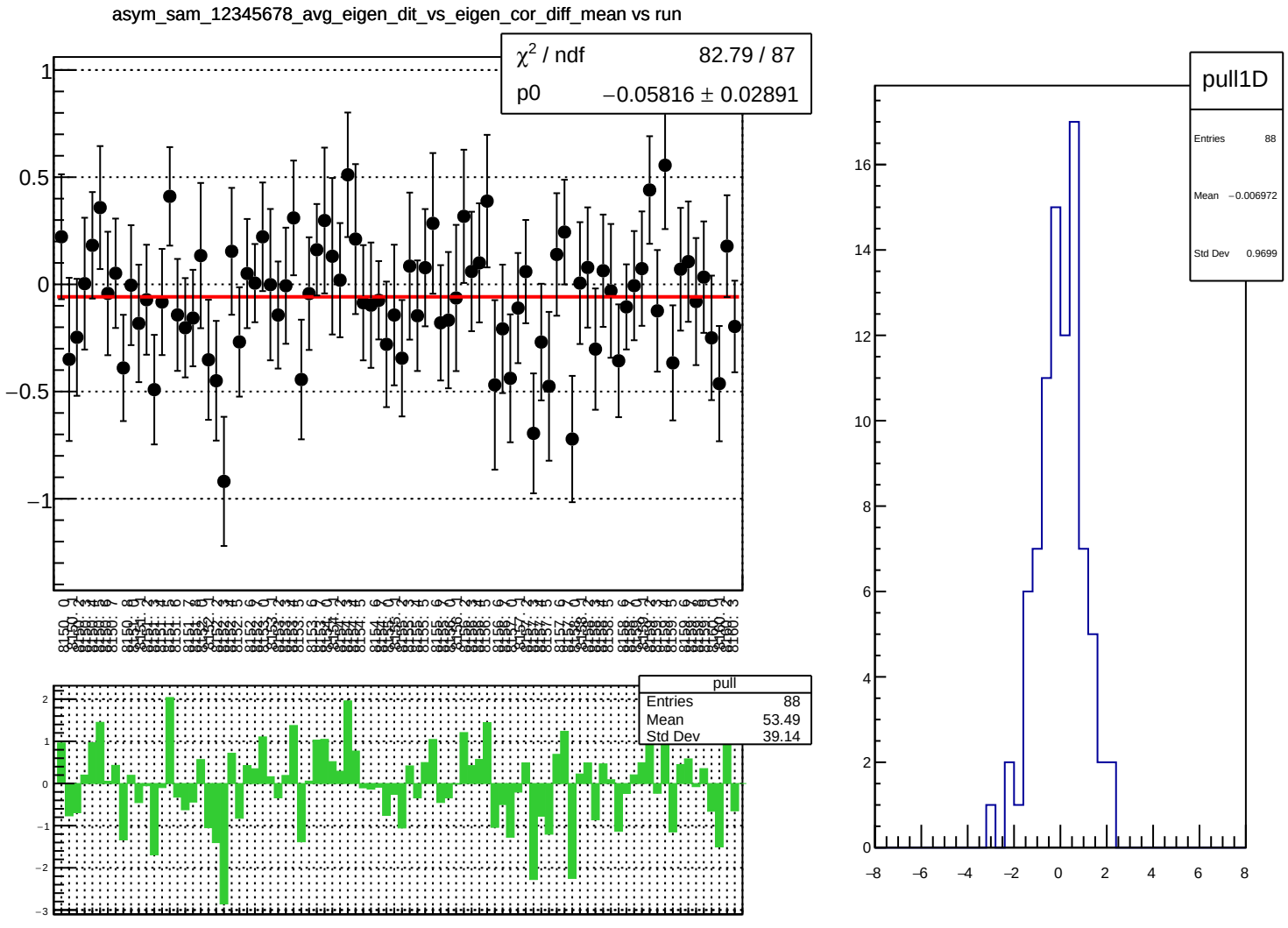

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.997e+04 / 87
p0 26.31 ± 0.02044
38
36
34
32
30
28
26
24
22

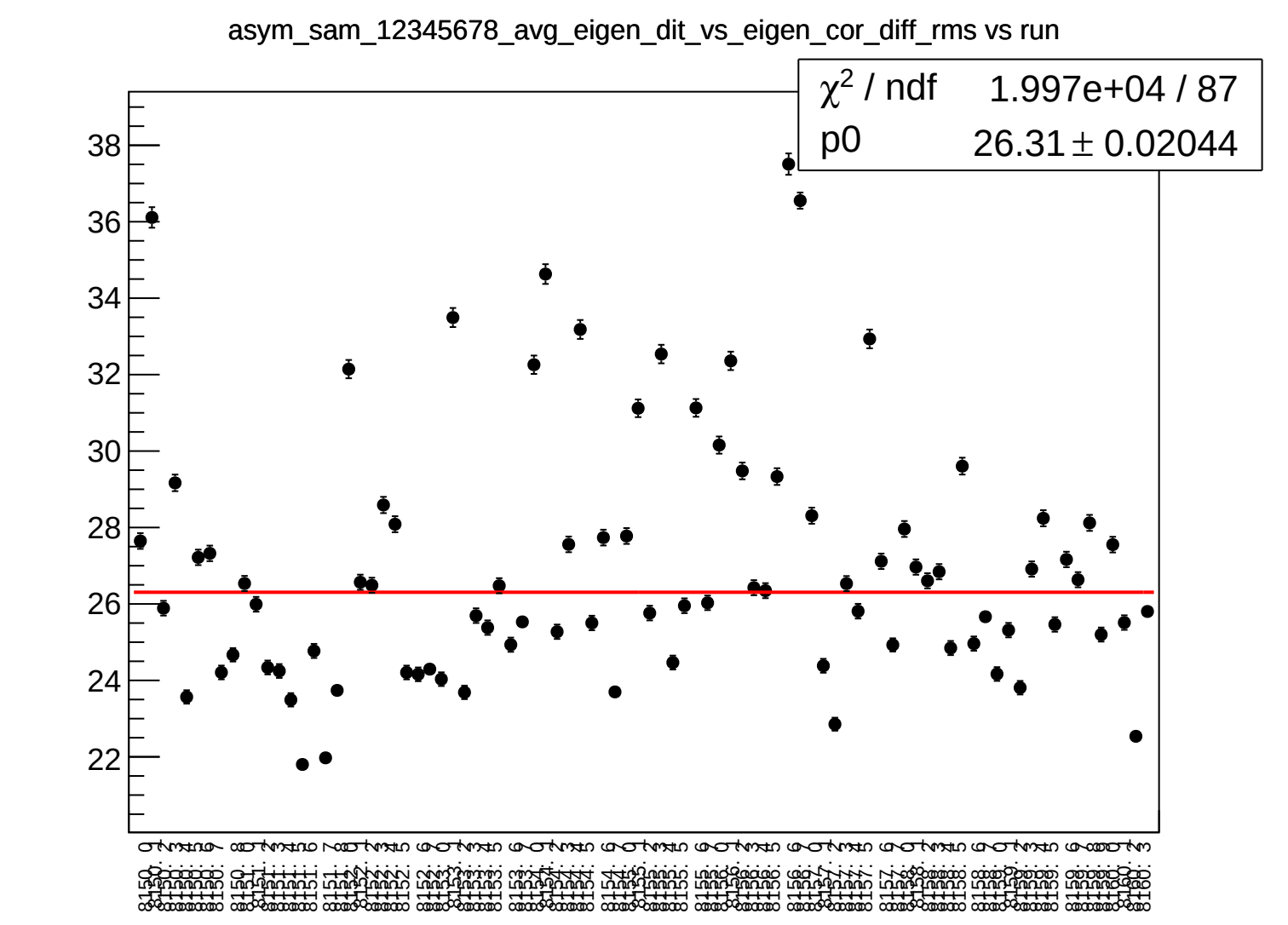

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.4 / 87
p0 7.01e−06 ± 2.334e−06
pull
Entries 88
Mean 3132
Std Dev 0
pull1D
Entries 88
Mean 0.0003666
Std Dev 1.084

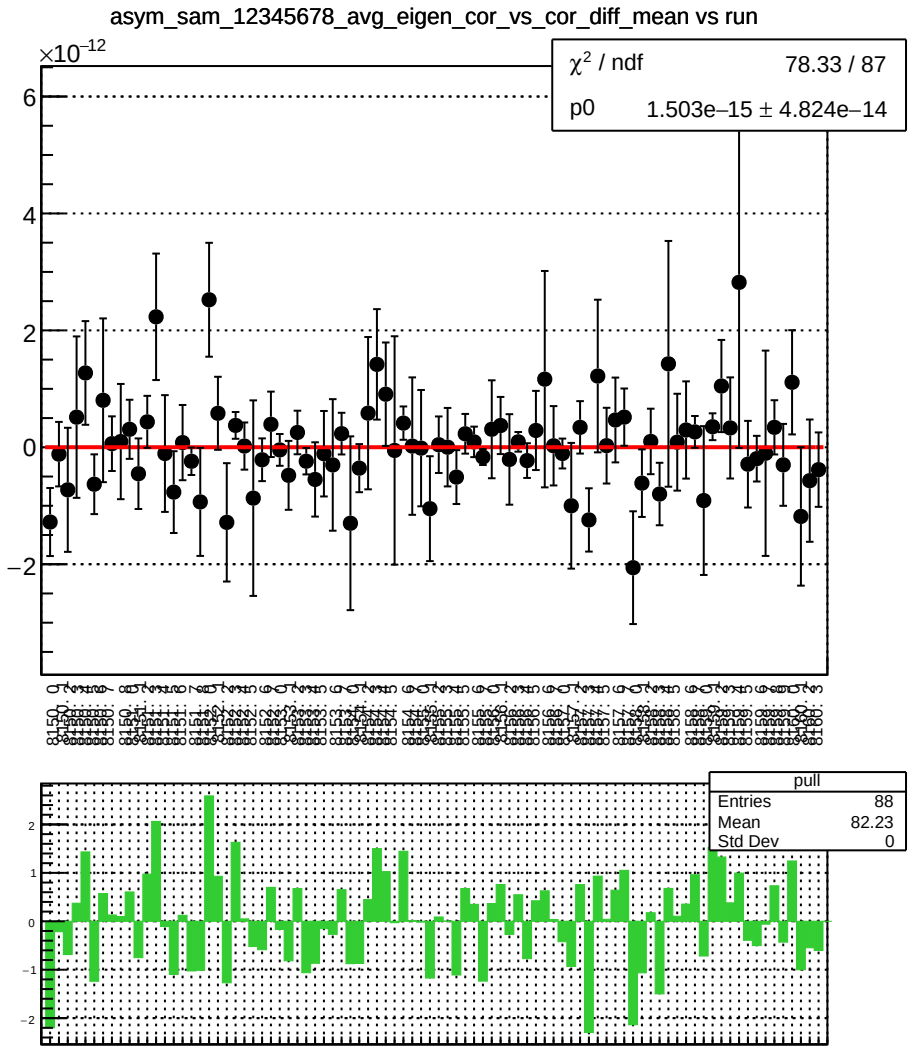

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 739.8 / 87
p0 0.002137 ± 1.651e−06
0.0023
0.00225
0.0022
0.00215
0.0021
0.00205
0.002

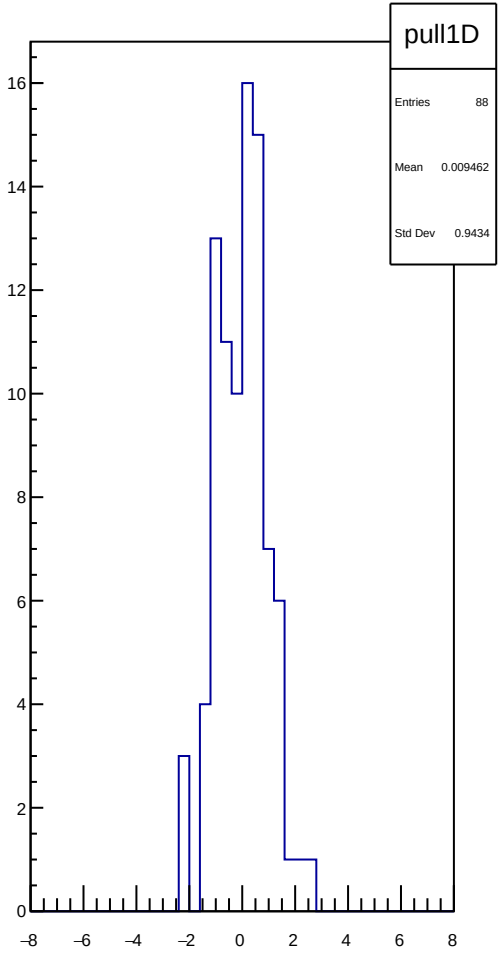

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.79 / 87
p0 −0.05816 ± 0.02891
pull
Entries 88
Mean 53.49
Std Dev 39.14
pull1D
Entries 88
Mean −0.006972
Std Dev 0.9699

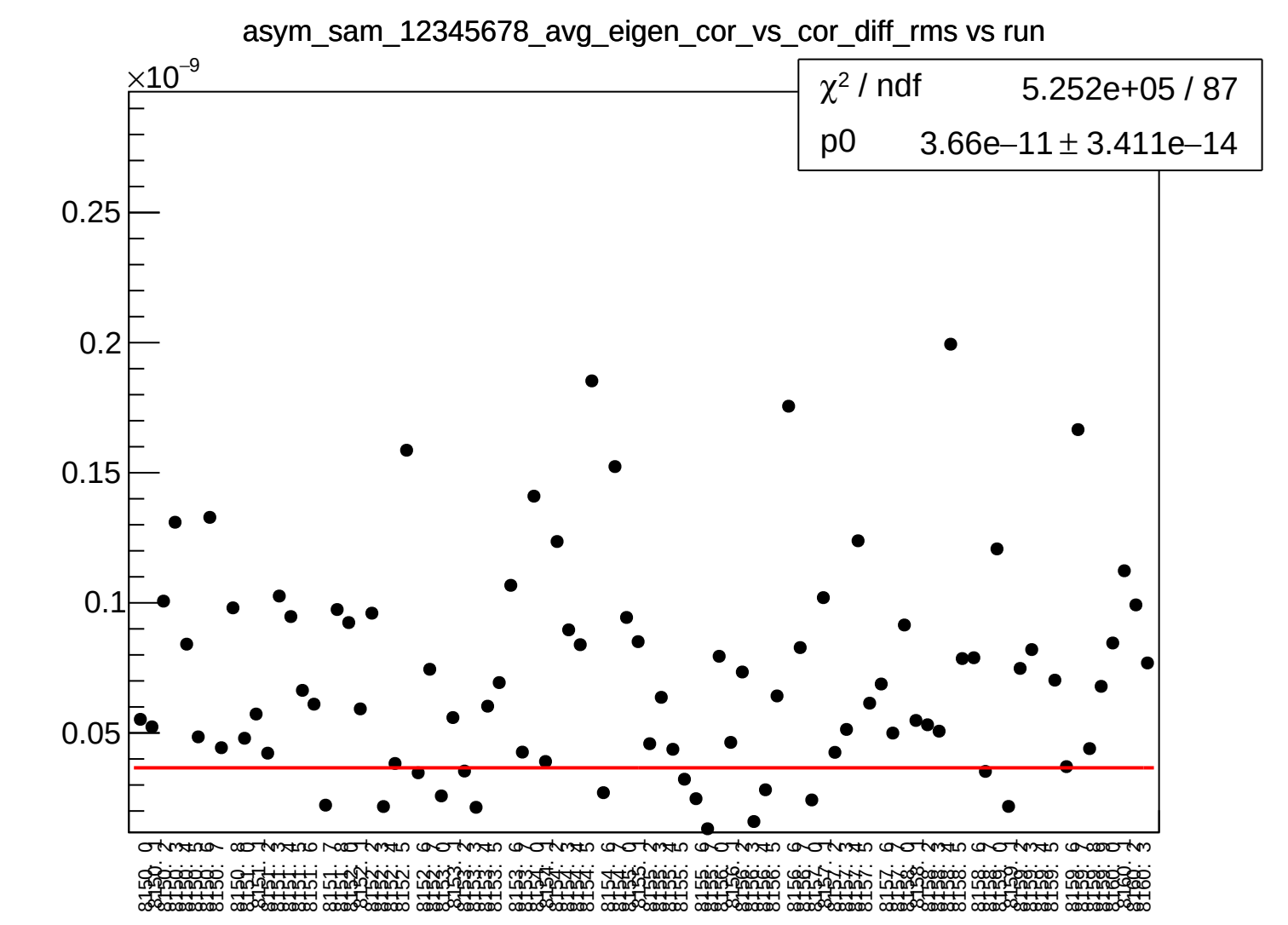

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.997e+04 / 87
p0 26.31 ± 0.02044
38
36
34
32
30
28
26
24
22

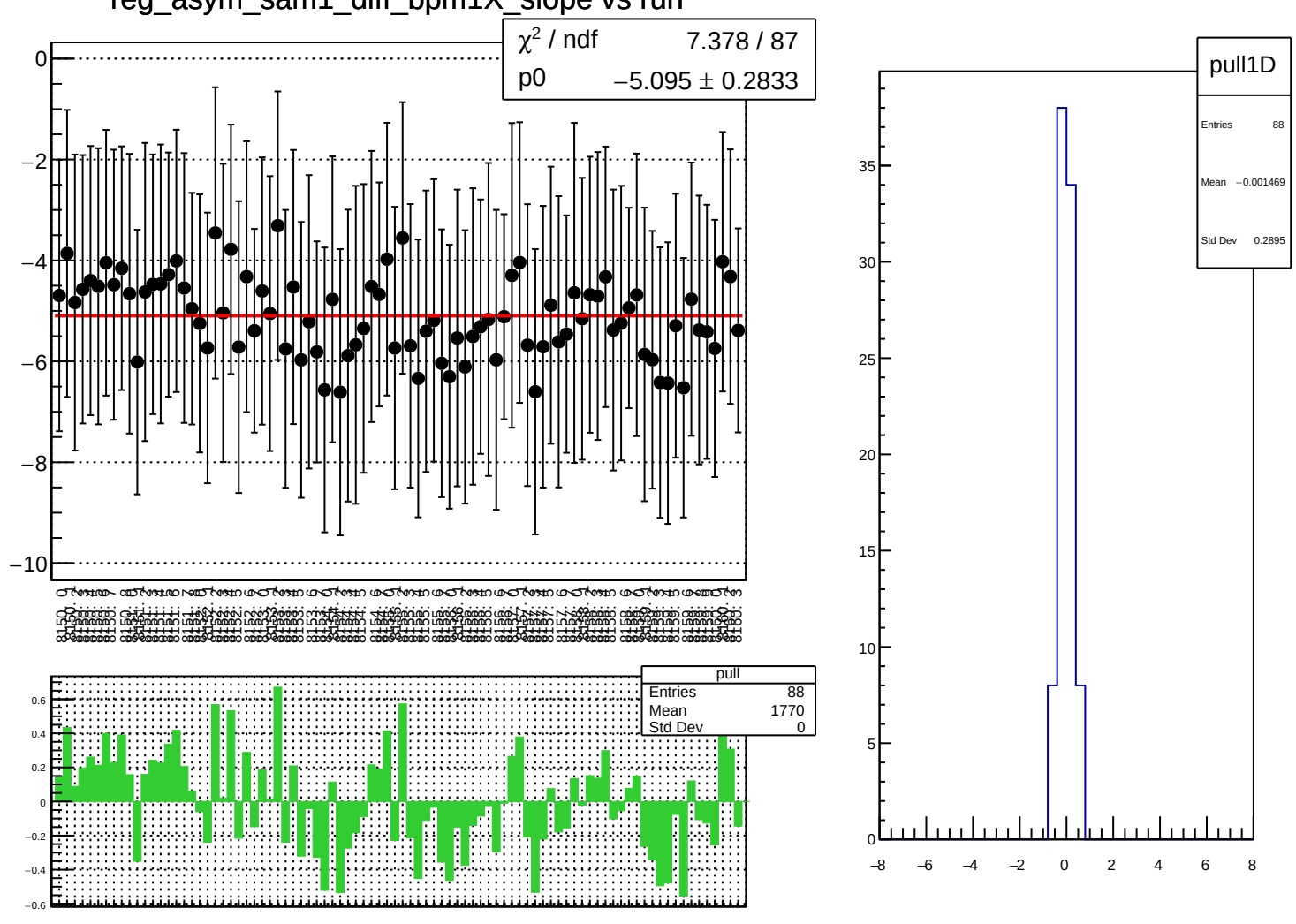

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.79 / 87
p0 −0.05816 ± 0.02891
pull
Entries 88
Mean 53.49
Std Dev 39.14
pull1D
Entries 88
Mean −0.006972
Std Dev 0.9699

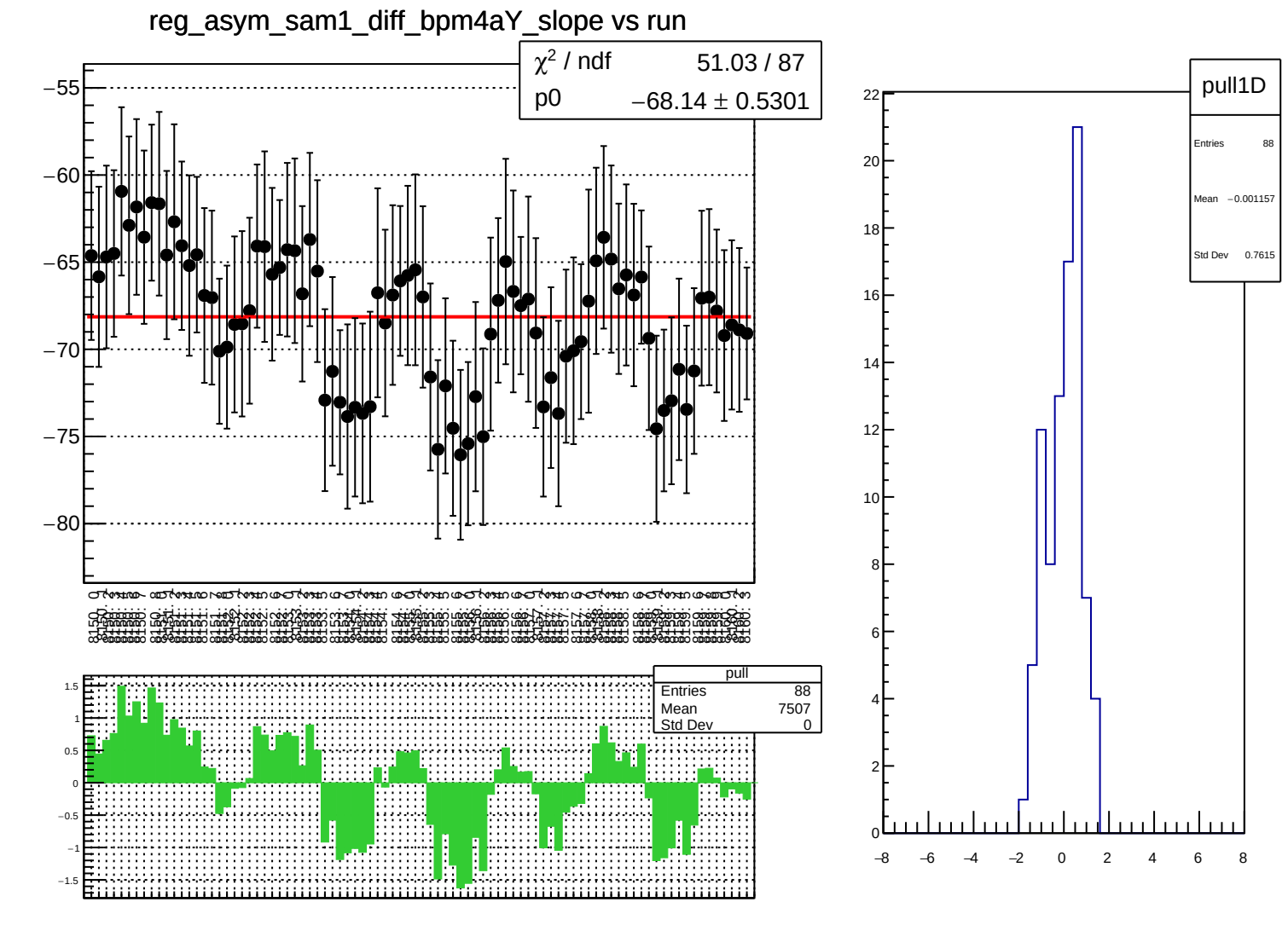

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.997e+04 / 87
p0 26.31 ± 0.02044
38
36
34
32
30
28
26
24
22

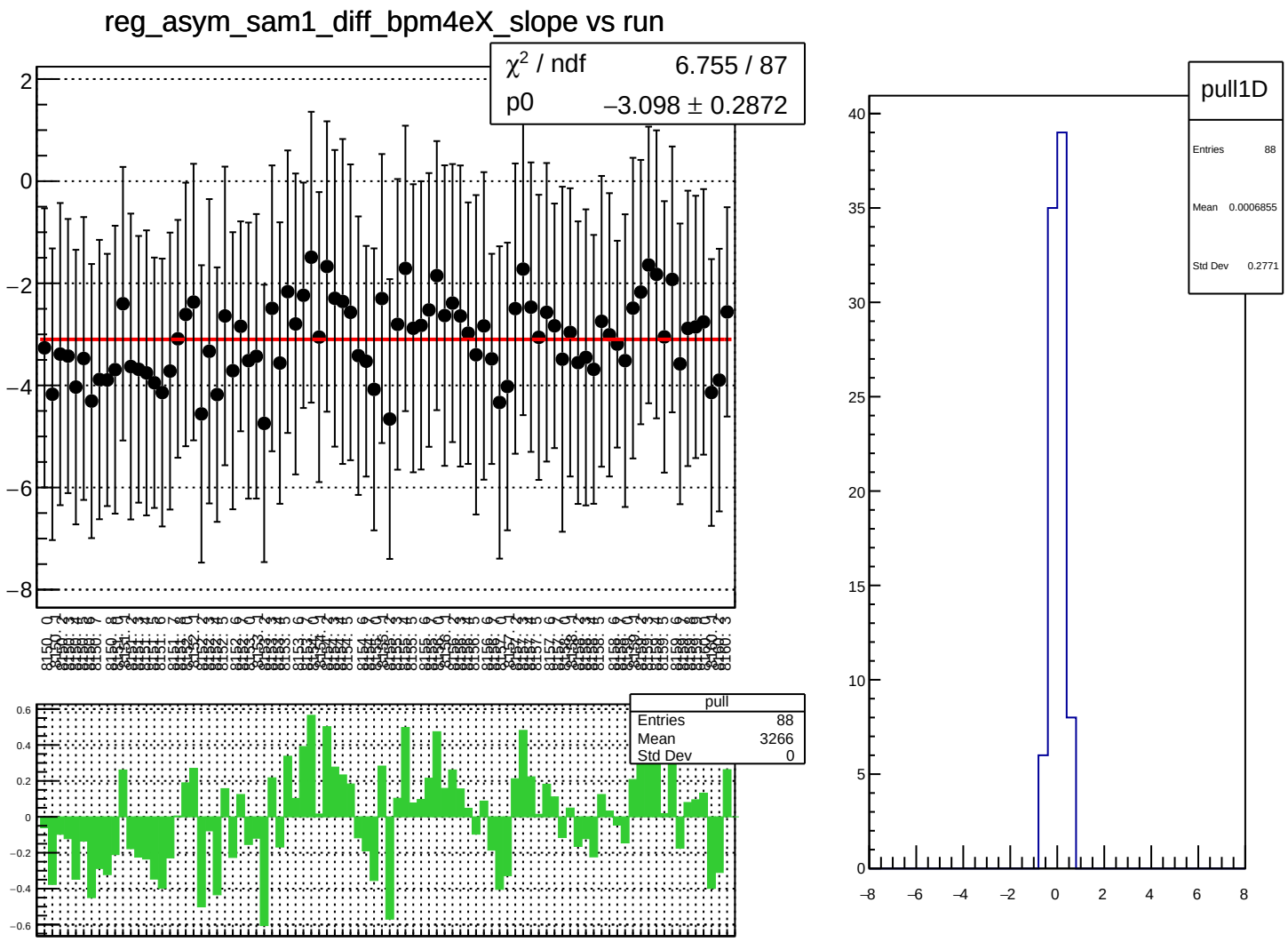

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.33 / 87
p0 1.503e−15 ± 4.824e−14
pull
Entries 88
Mean 82.23
Std Dev 0

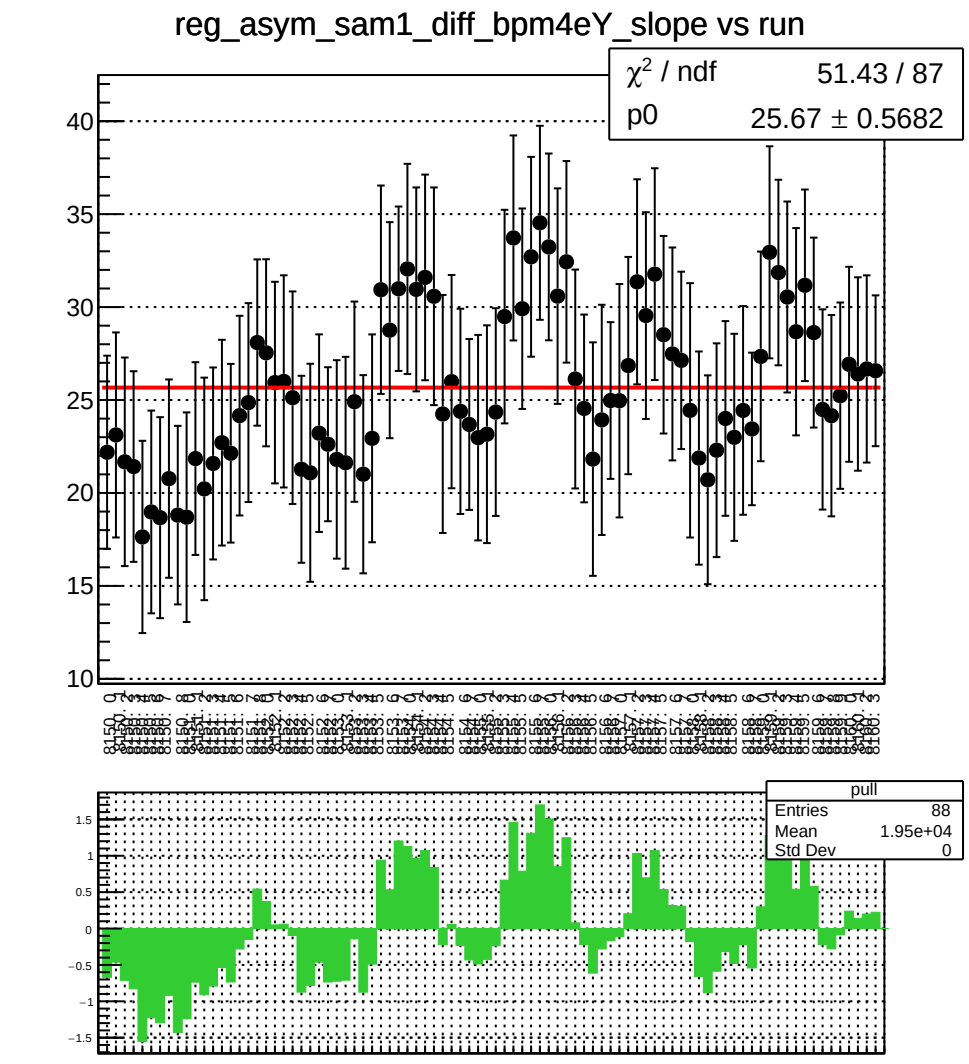

pull1D
Entries 88
Mean 0.009462
Std Dev 0.9434

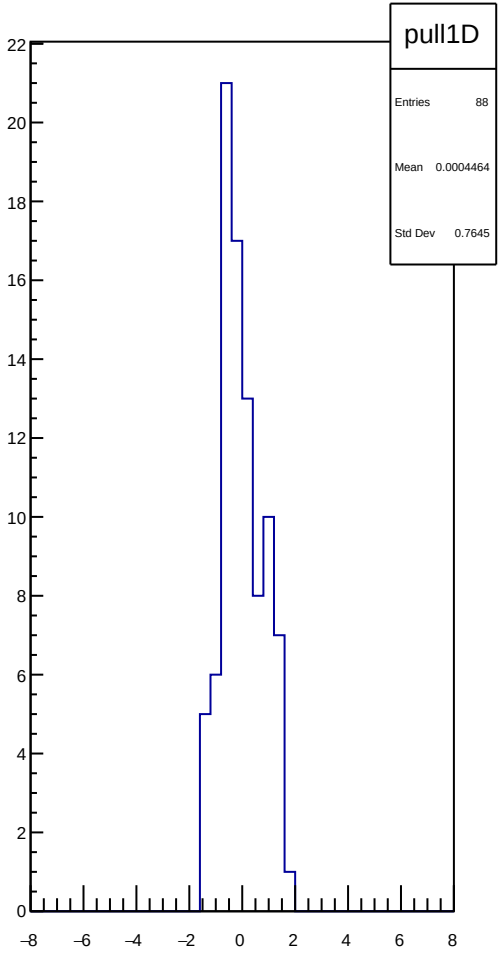

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.252e+05 / 87
p0 3.66e−11 ± 3.411e−14
0.25
0.2
0.15
0.1
0.05

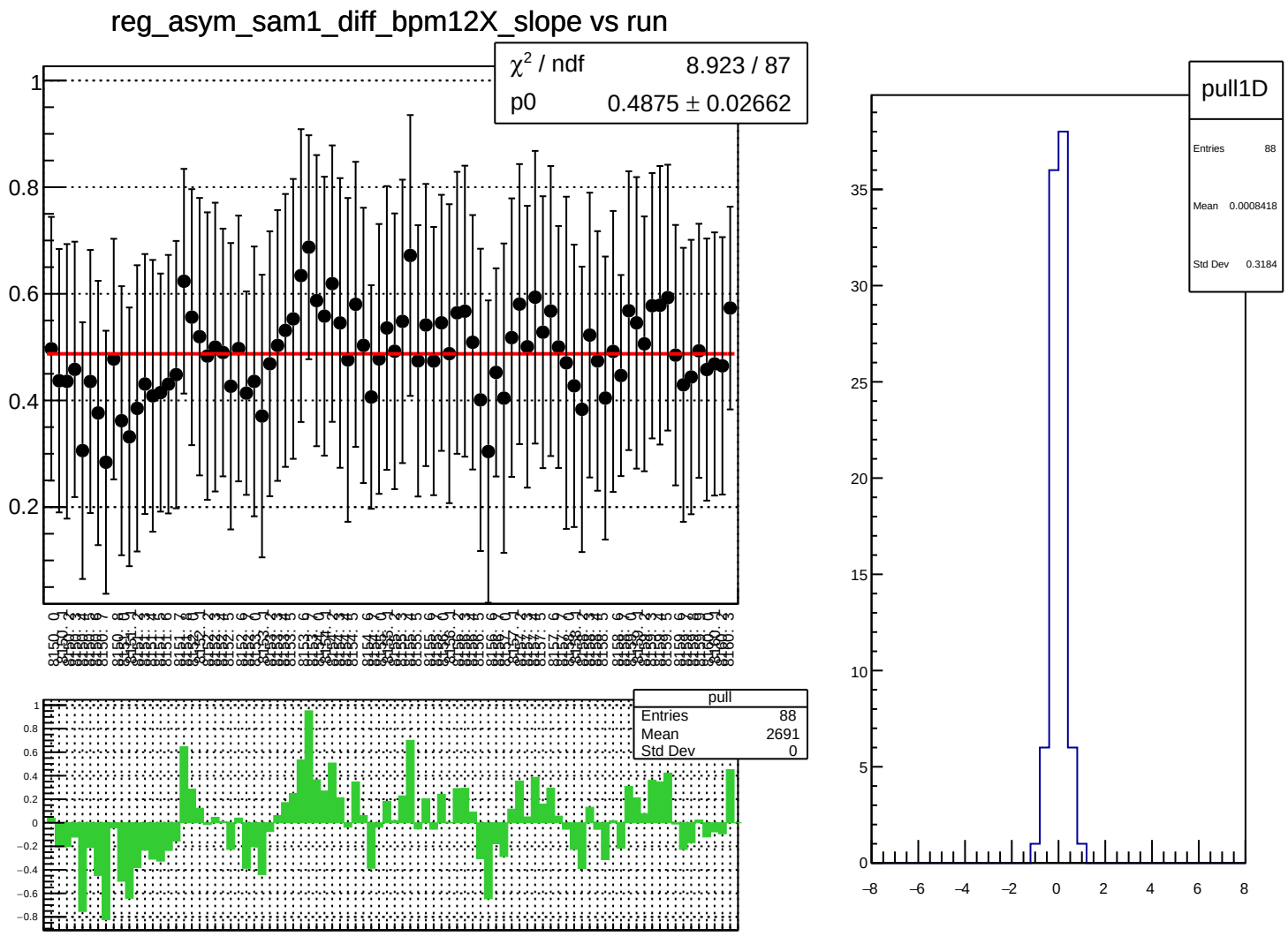

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 7.378 / 87
p0 −5.095 ± 0.2833
pull
Entries 88
Mean 1770
Std Dev 0
pull1D
Entries 88
Mean −0.001469
Std Dev 0.2895

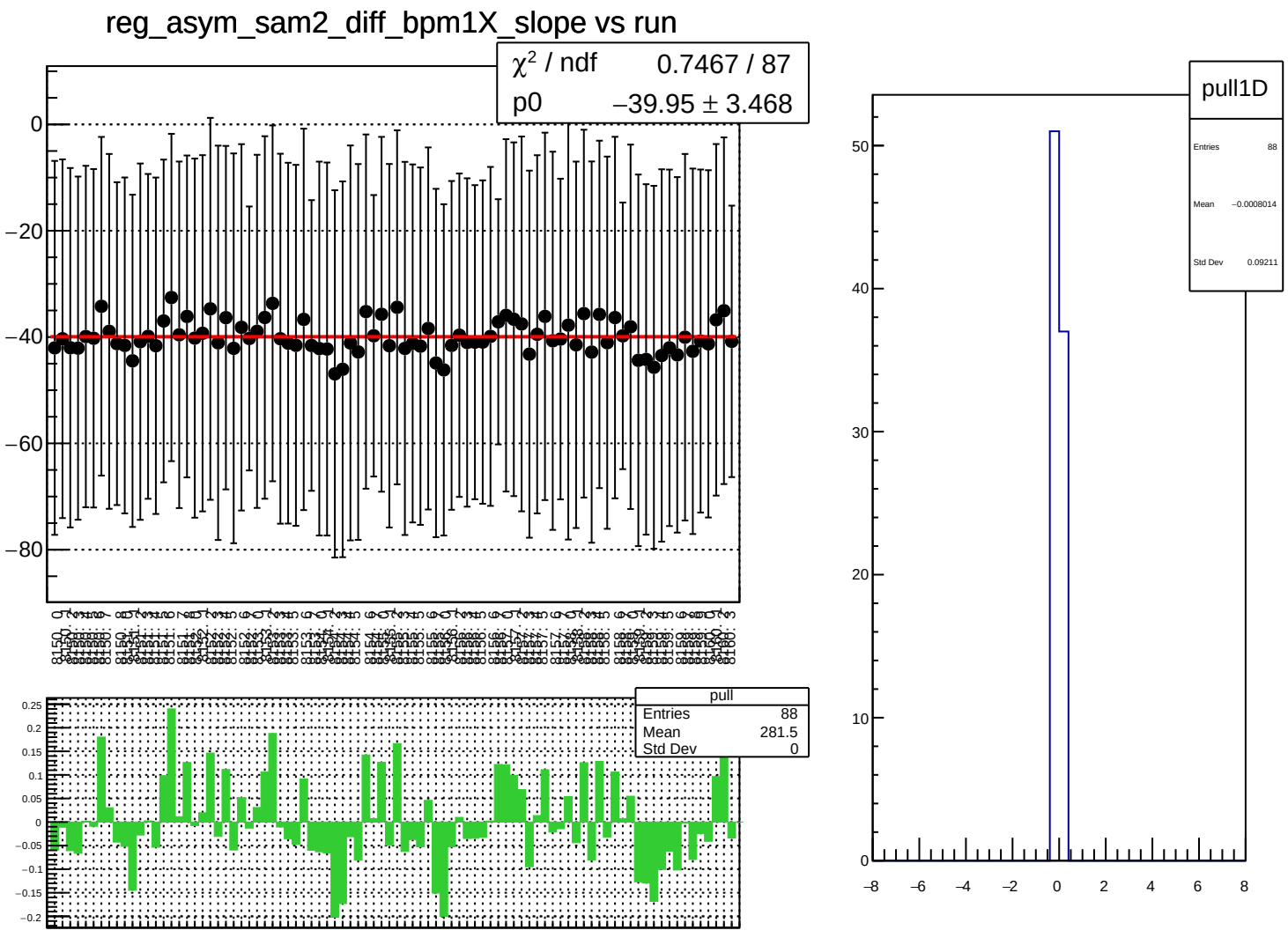

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 51.03 / 87
p0 −68.14 ± 0.5301
pull
Entries 88
Mean 7507
Std Dev 0
pull1D
Entries 88
Mean −0.001157
Std Dev 0.7615

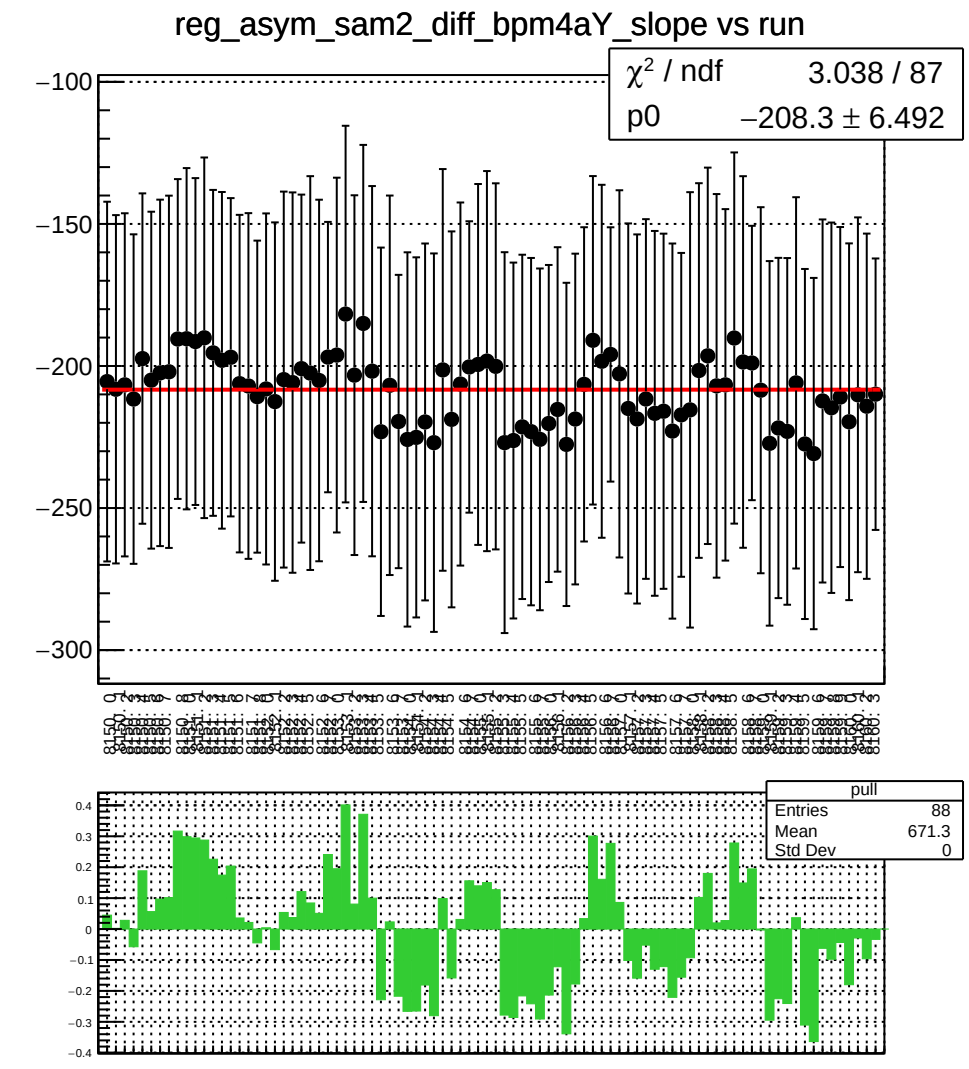

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 6.755 / 87
p0 −3.098 ± 0.2872
pull
Entries 88
Mean 3266
Std Dev 0
pull1D
Entries 88
Mean 0.0006855
Std Dev 0.2771

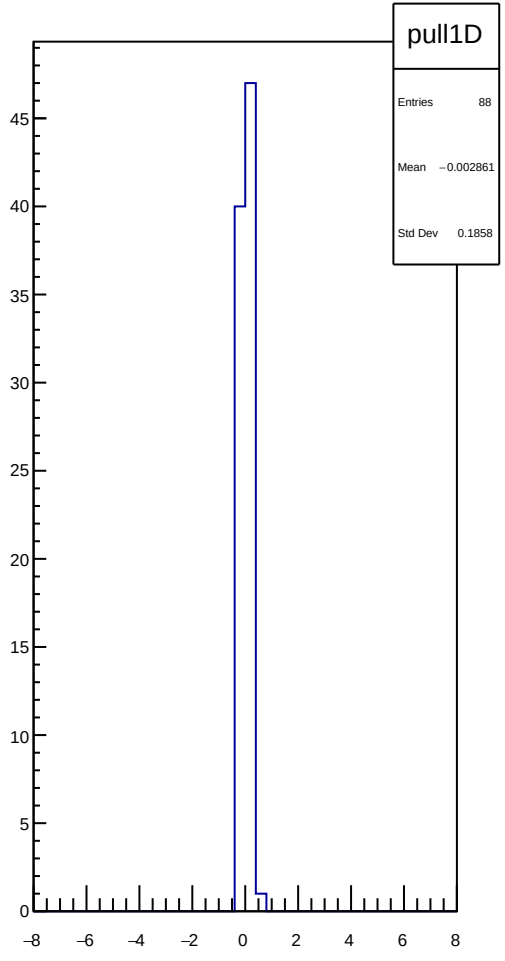

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 51.43 / 87
p0 25.67 ± 0.5682
pull
Entries 88
Mean 1.95e+04
Std Dev 0

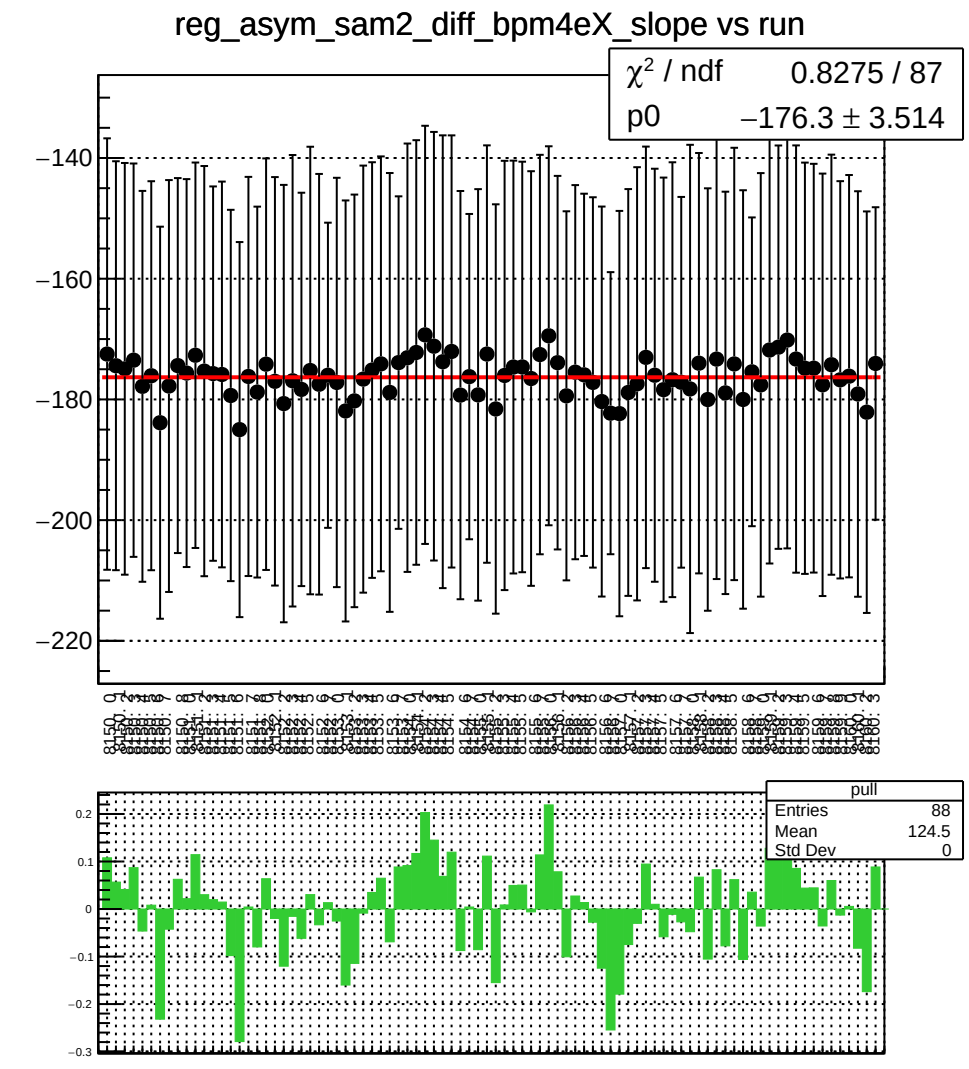

pull1D
Entries 88
Mean 0.0004464
Std Dev 0.7645

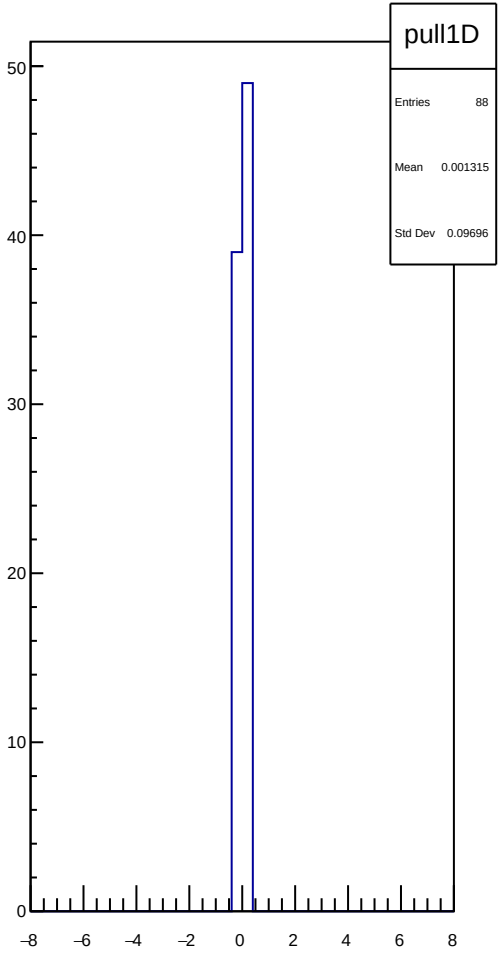

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 8.923 / 87
p0 0.4875 ± 0.02662
pull
Entries 88
Mean 2691
Std Dev 0
pull1D
Entries 88
Mean 0.0008418
Std Dev 0.3184

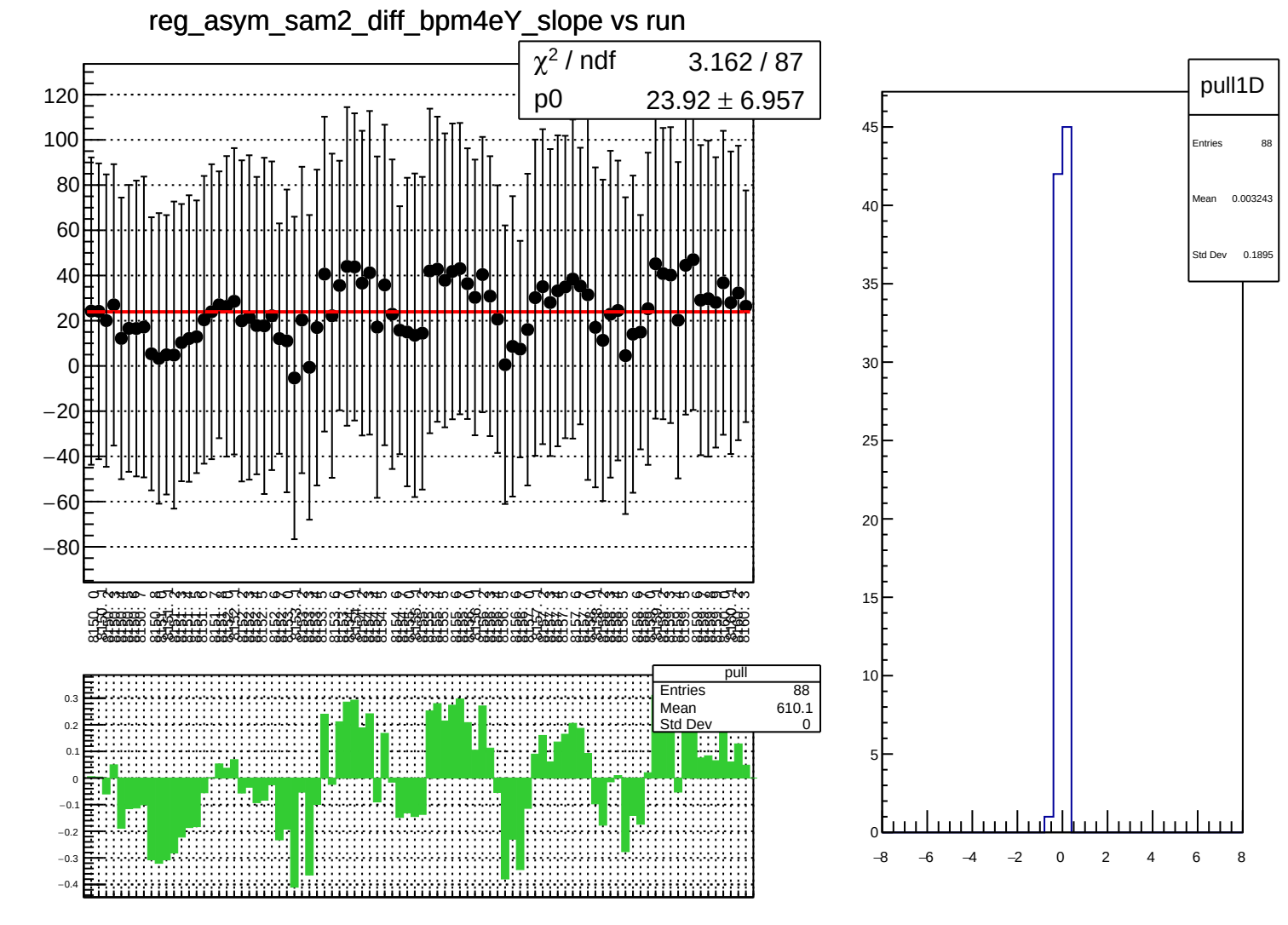

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 0.7467 / 87
p0 −39.95 ± 3.468
pull
Entries 88
Mean 281.5
Std Dev 0
pull1D
Entries 88
Mean −0.0008014
Std Dev 0.09211

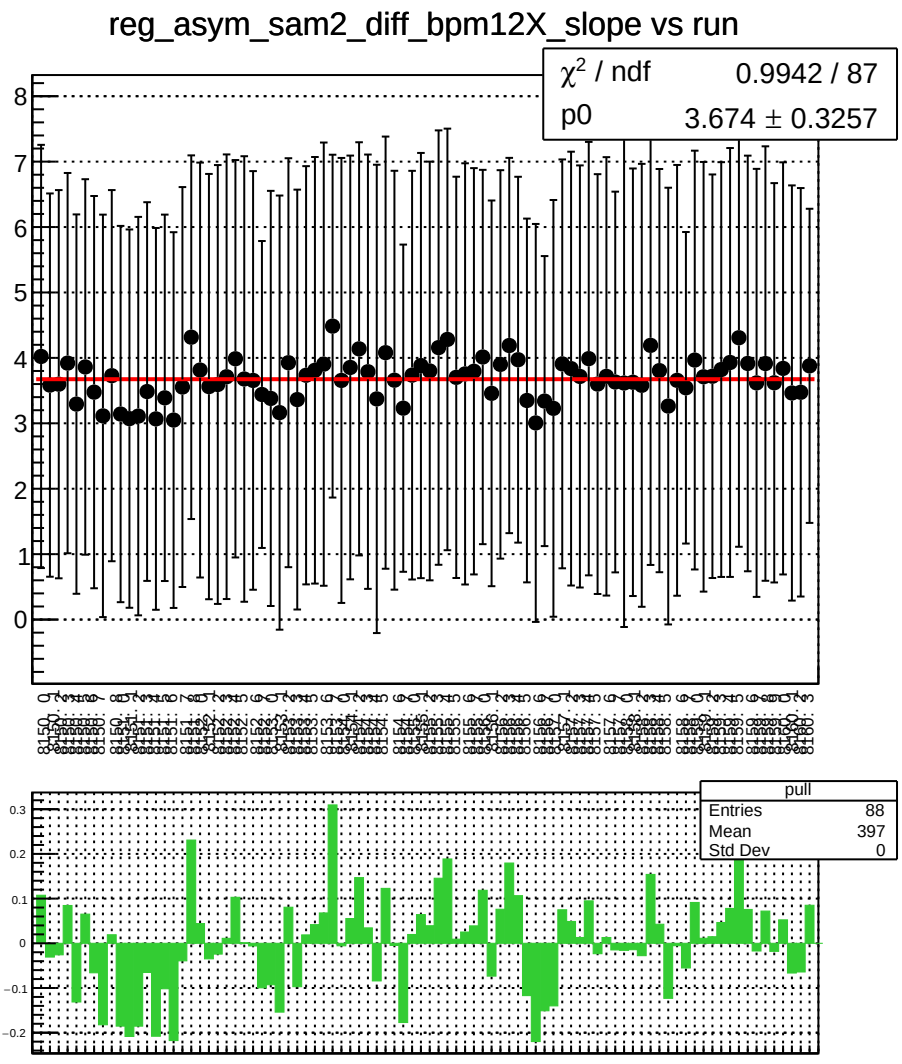

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 3.038 / 87
p0 −208.3 ± 6.492
−100
−150
−200
−250
−300
pull
Entries 88
Mean 671.3
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

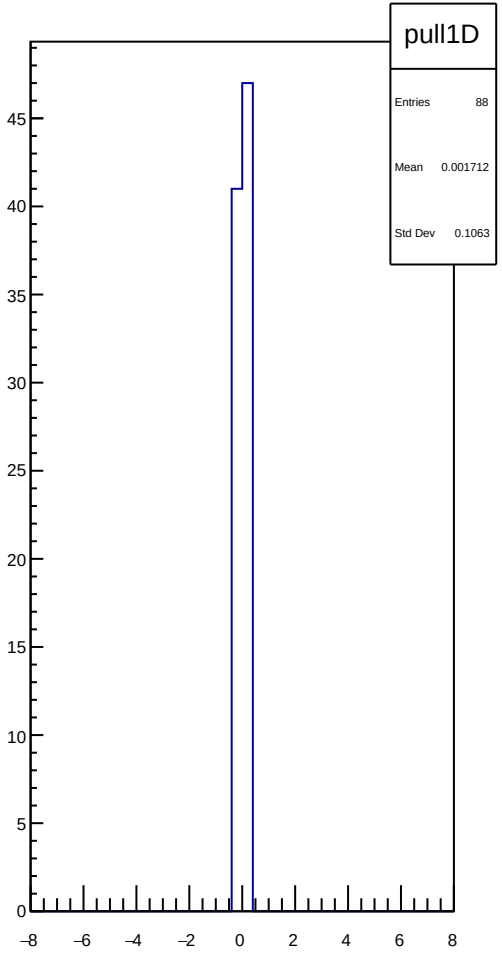

pull1D
Entries 88
Mean −0.002861
Std Dev 0.1858
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

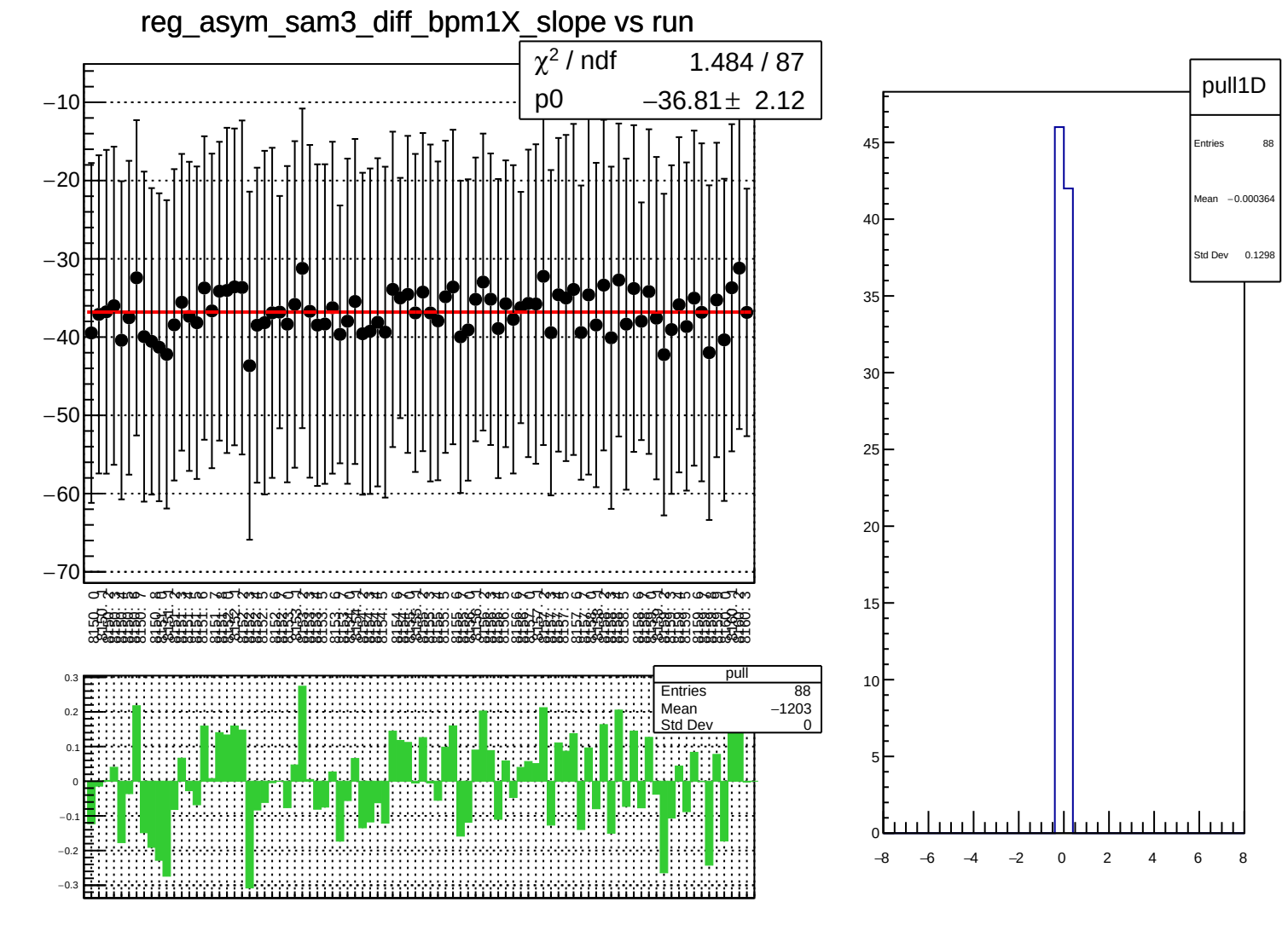

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.8275 / 87
p0 −176.3 ± 3.514
−140
−160
−180
−200
−220
pull
Entries 88
Mean 124.5
Std Dev 0
0.2
0.1
0
−0.1
−0.2
−0.3

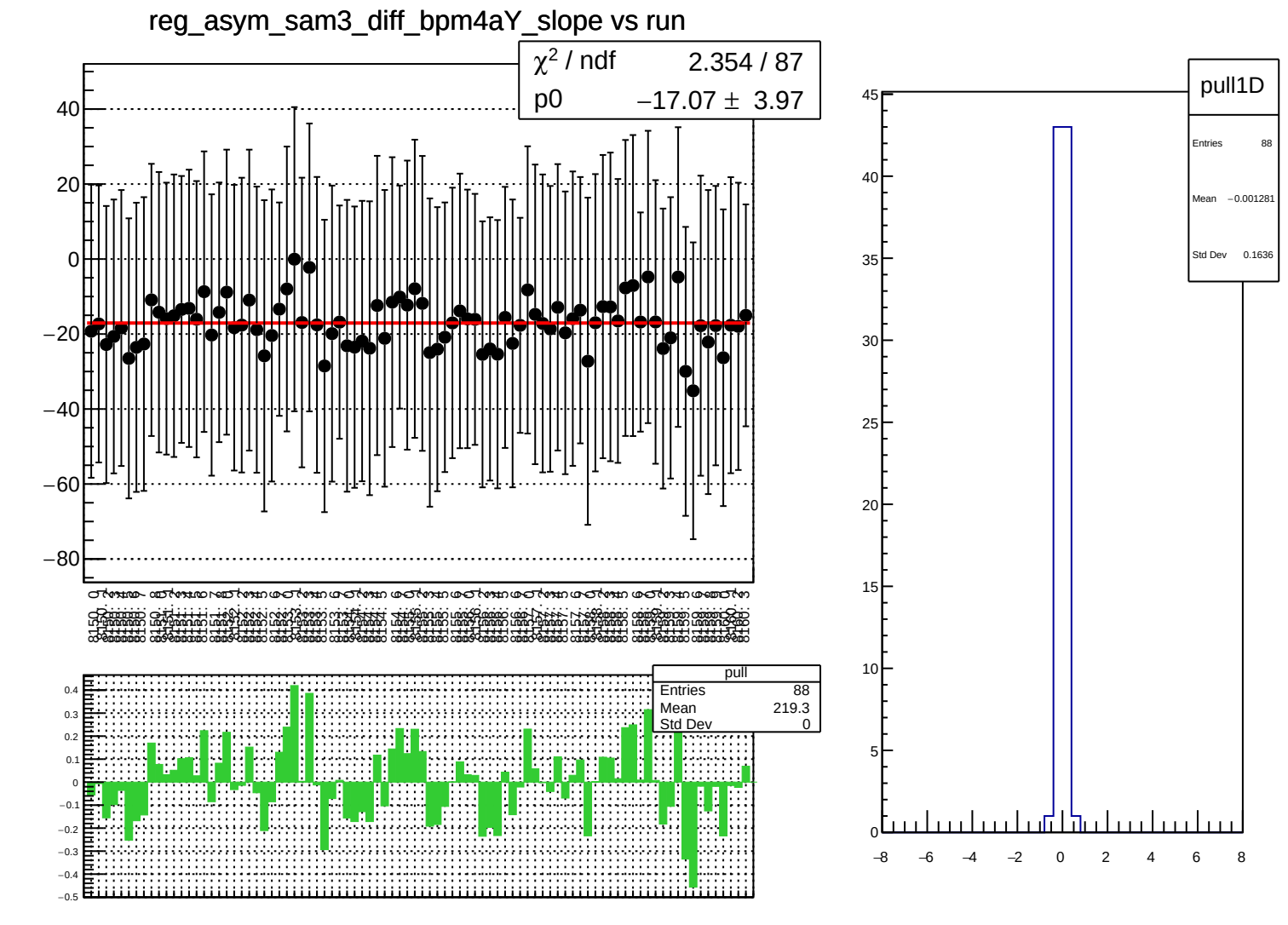

pull1D
Entries 88
Mean 0.001315
Std Dev 0.09696
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

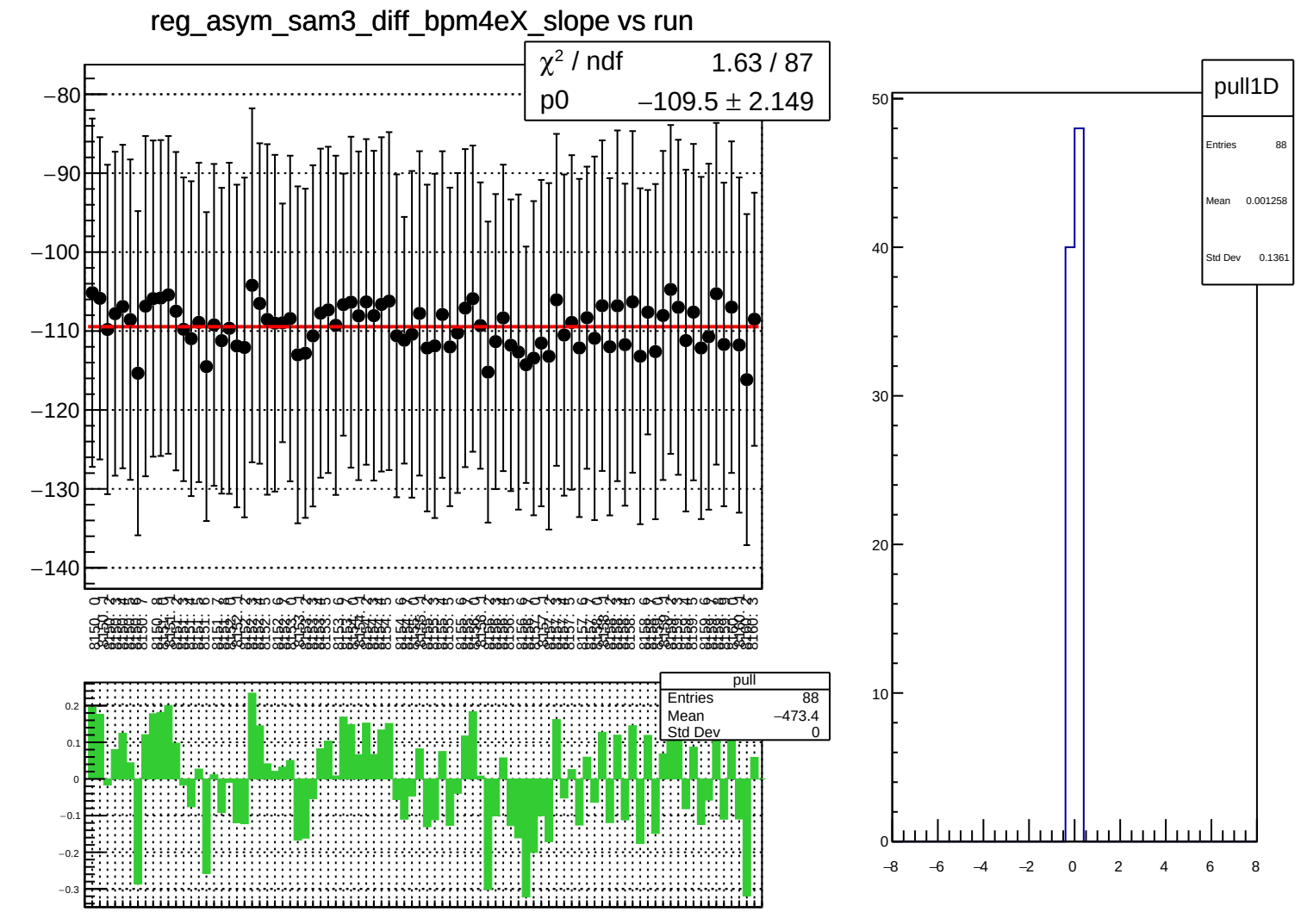

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 3.162 / 87
p0 23.92 ± 6.957
pull
Entries 88
Mean 610.1
Std Dev 0
pull1D
Entries 88
Mean 0.003243
Std Dev 0.1895

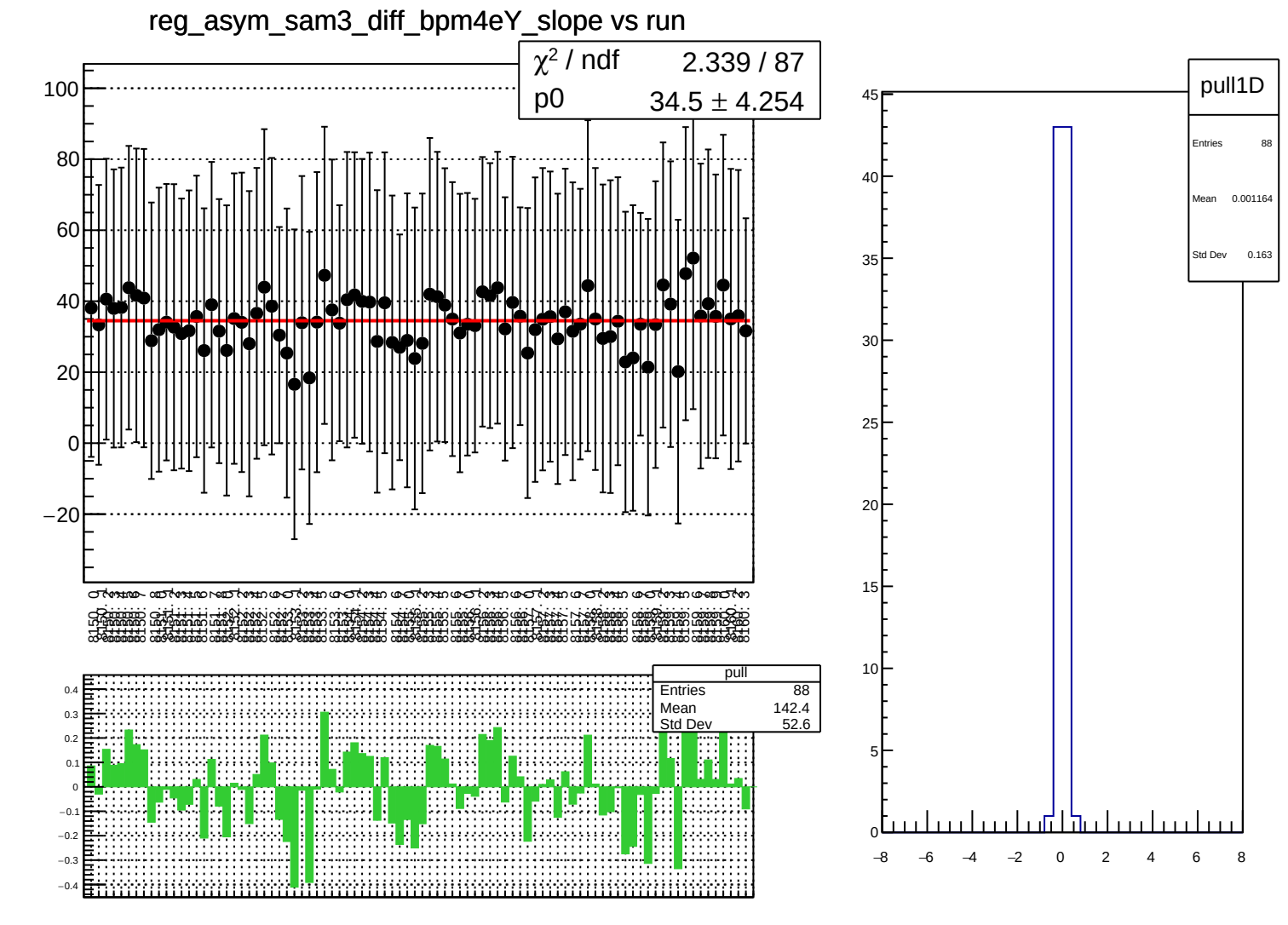

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 0.9942 / 87
p0 3.674 ± 0.3257
pull
Entries 88
Mean 397
Std Dev 0

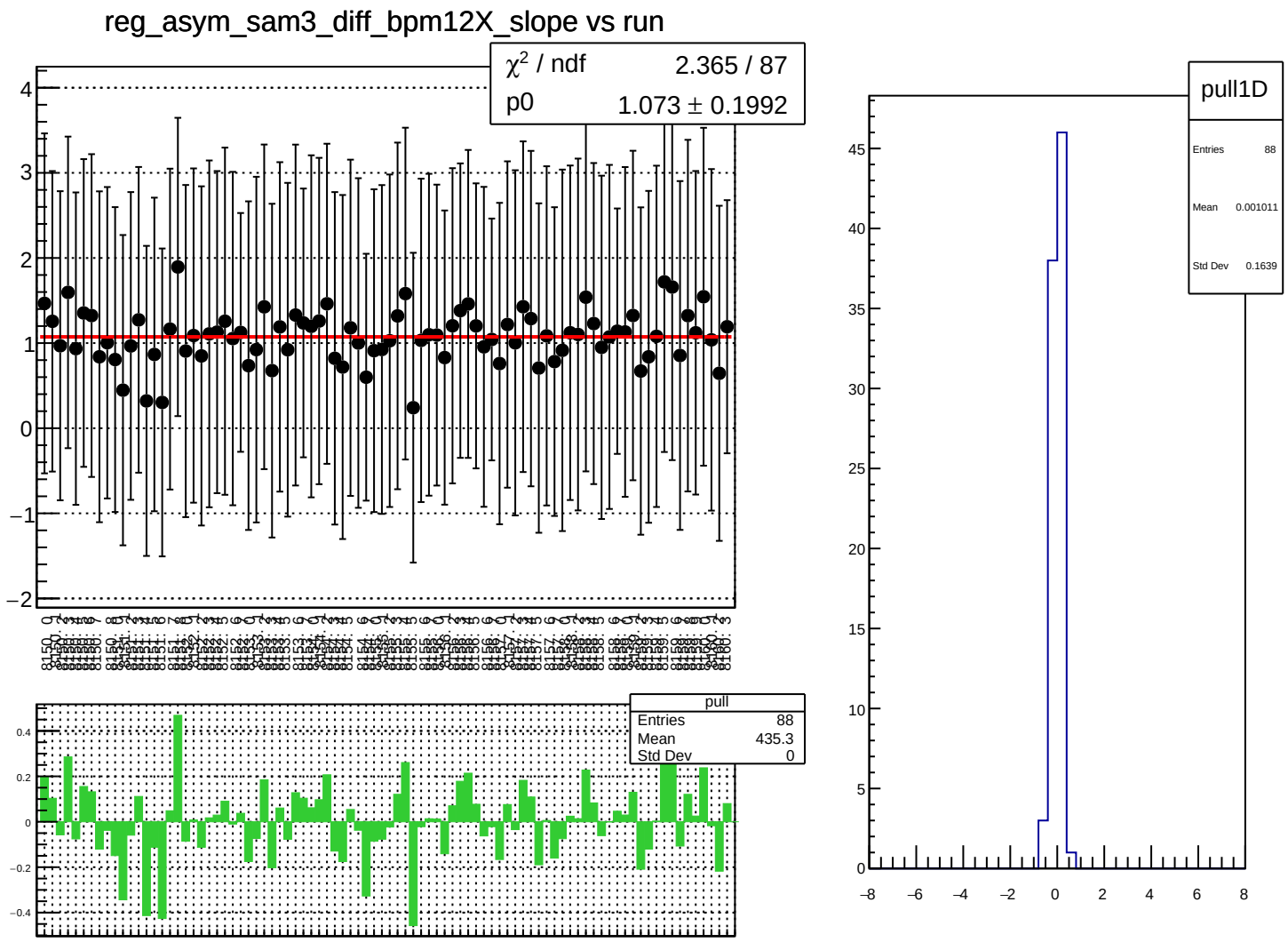

pull1D
Entries 88
Mean 0.001712
Std Dev 0.1063

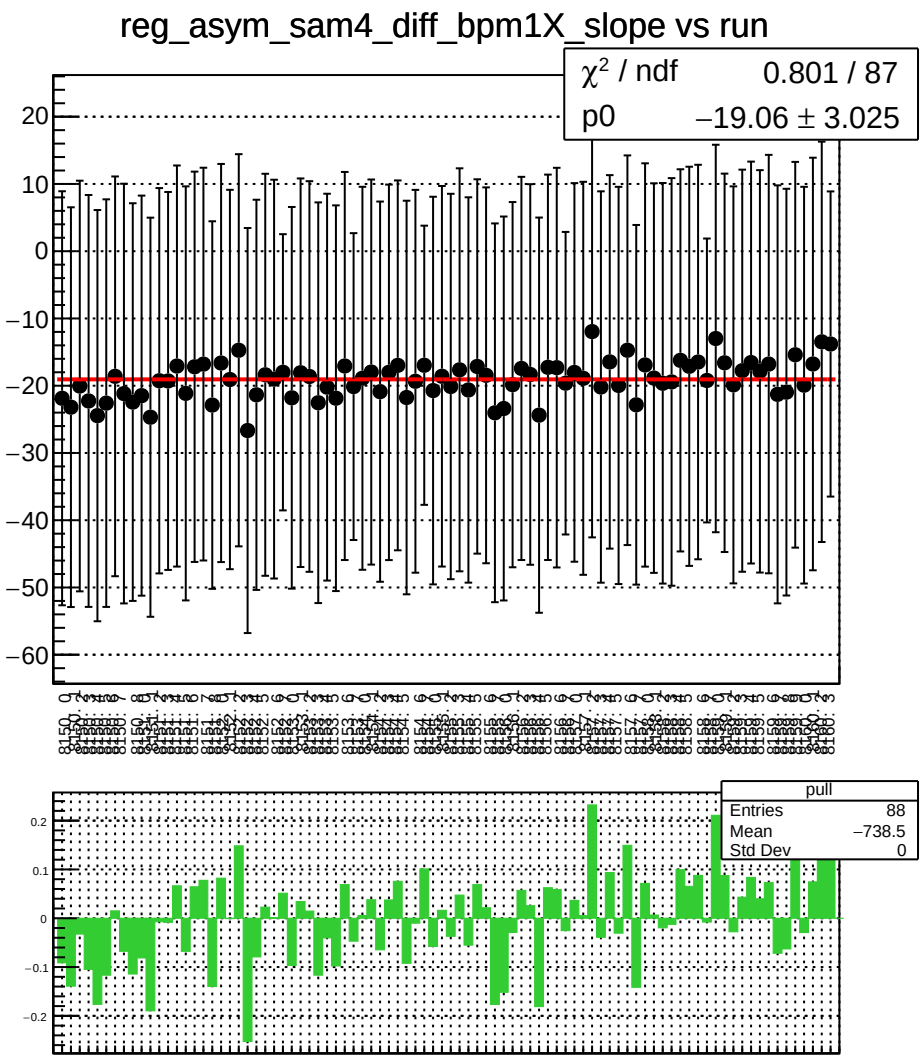

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 1.484 / 87
p0 −36.81 ± 2.12
pull
Entries 88
Mean −1203
Std Dev 0
pull1D
Entries 88
Mean −0.000364
Std Dev 0.1298

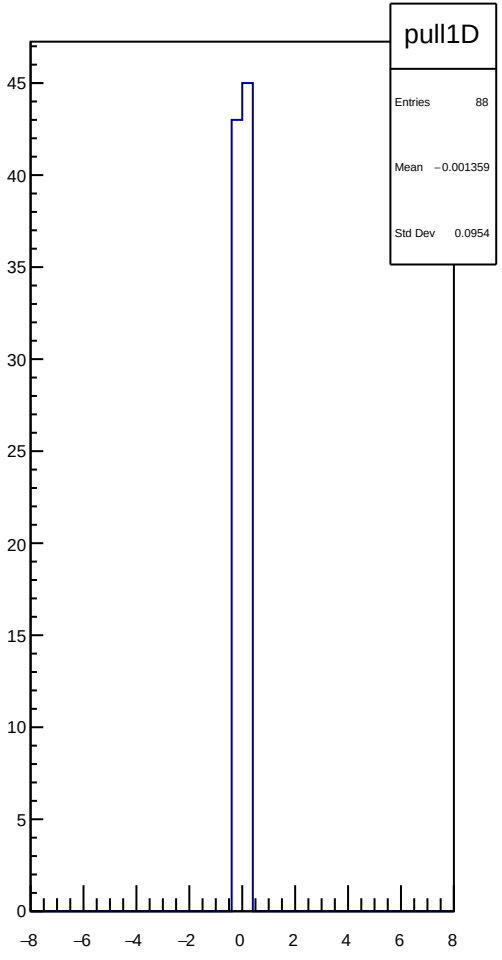

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 2.354 / 87
p0 −17.07 ± 3.97
pull
Entries 88
Mean 219.3
Std Dev 0
pull1D
Entries 88
Mean −0.001281
Std Dev 0.1636

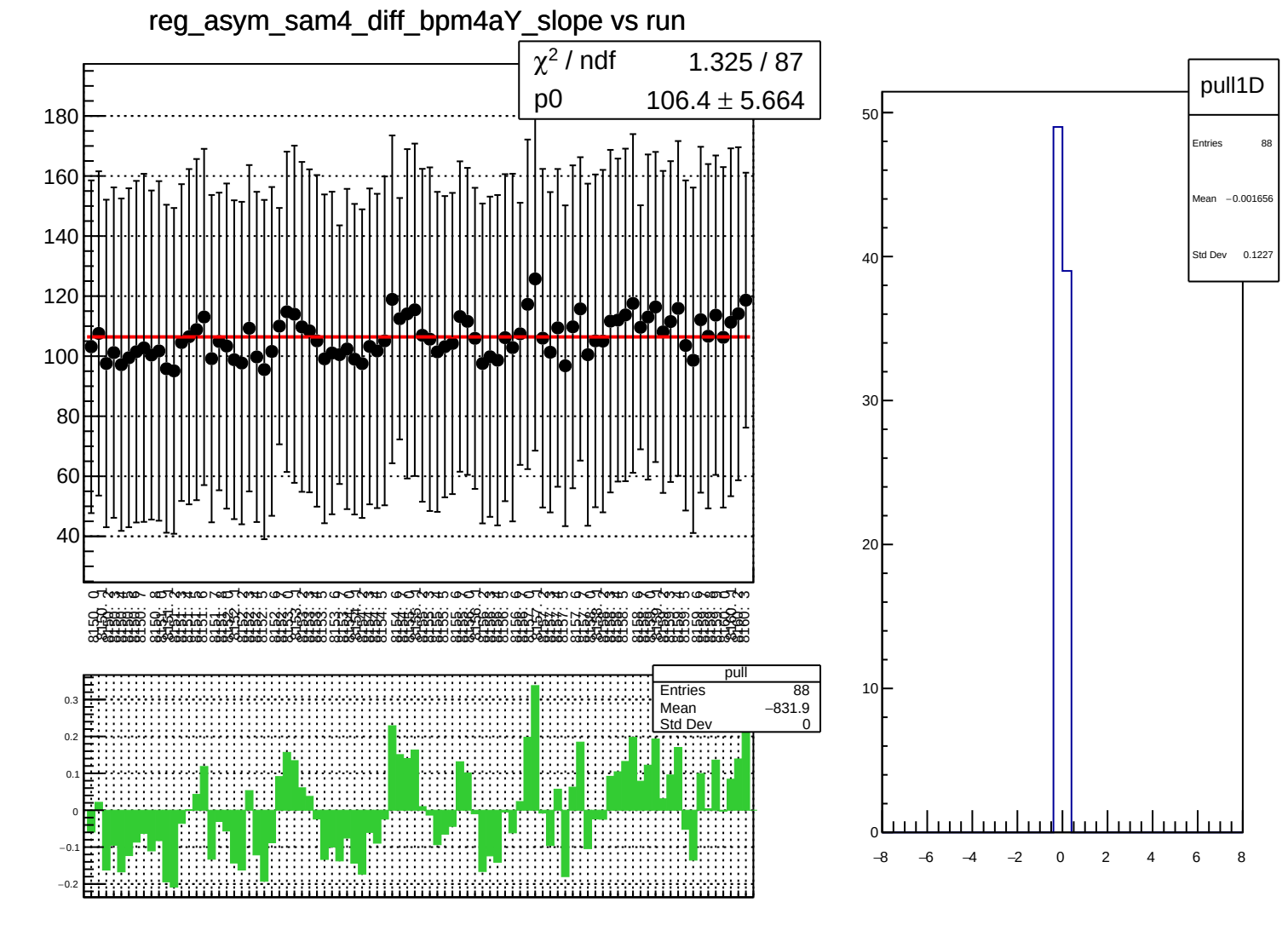

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 1.63 / 87
p0 −109.5 ± 2.149
pull
Entries 88
Mean −473.4
Std Dev 0
pull1D
Entries 88
Mean 0.001258
Std Dev 0.1361

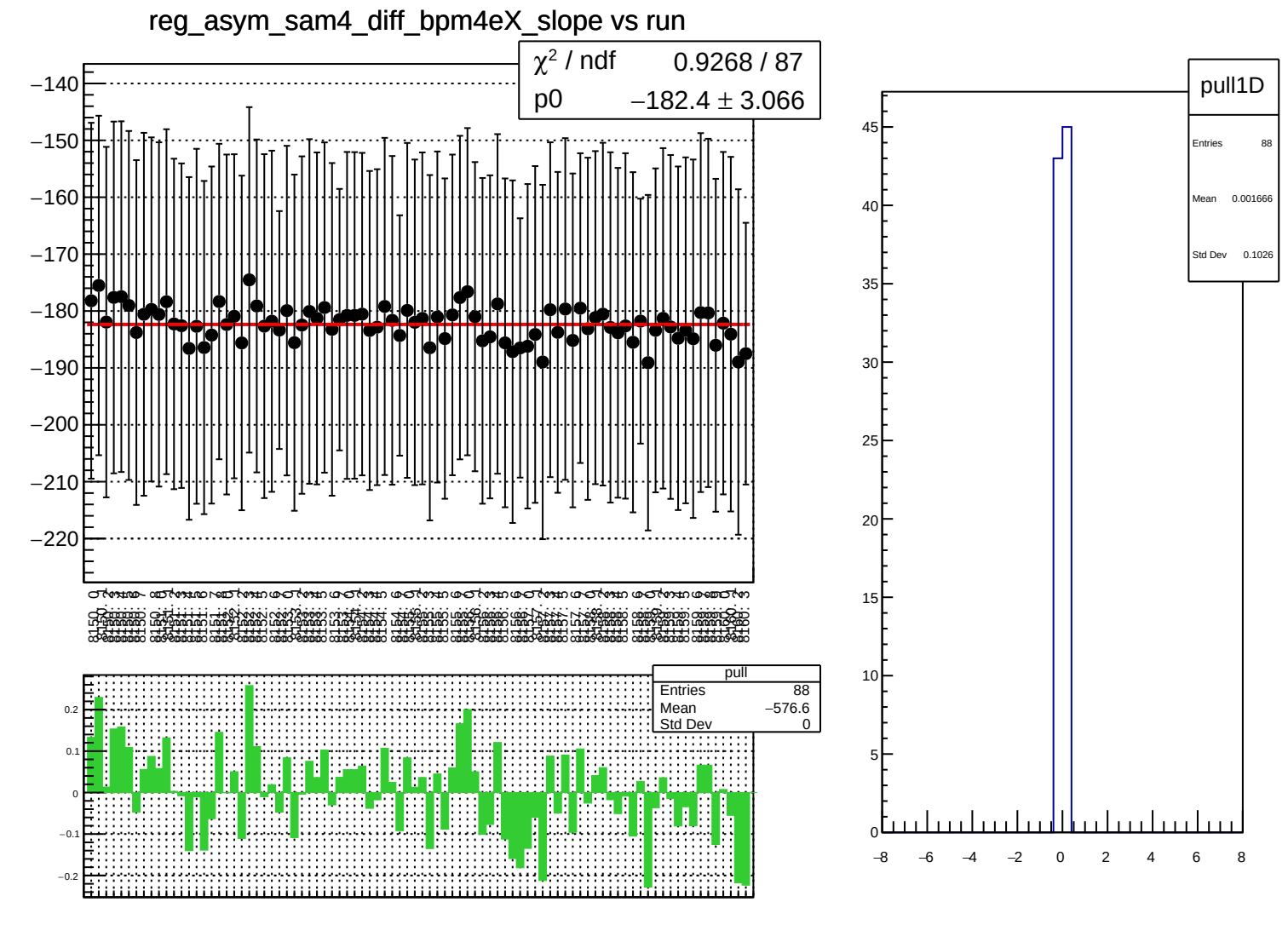

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 2.339 / 87
p0 34.5 ± 4.254
pull
Entries 88
Mean 142.4
Std Dev 52.6
pull1D
Entries 88
Mean 0.001164
Std Dev 0.163

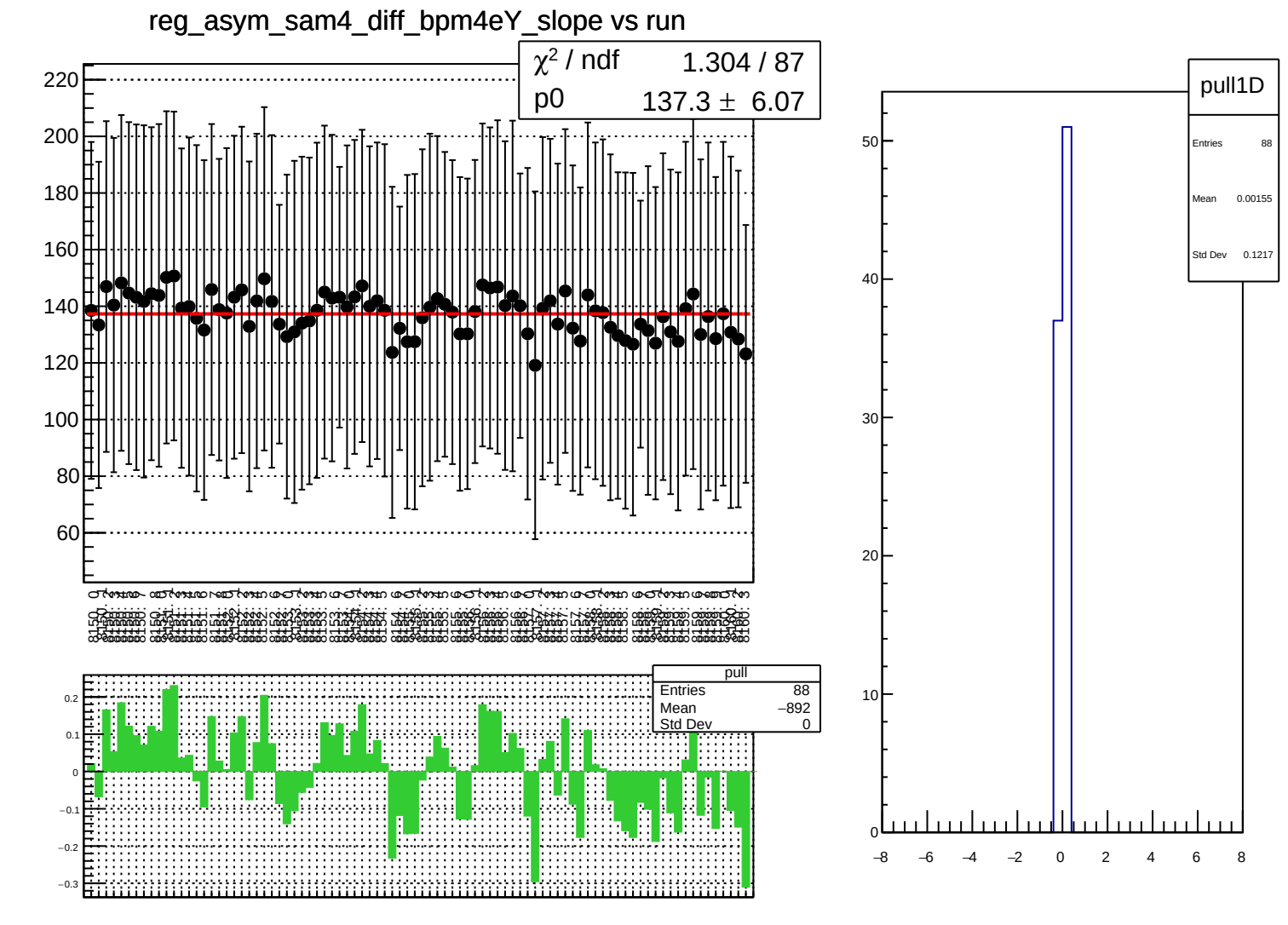

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 2.365 / 87
p0 1.073 ± 0.1992
pull
Entries 88
Mean 435.3
Std Dev 0
pull1D
Entries 88
Mean 0.001011
Std Dev 0.1639

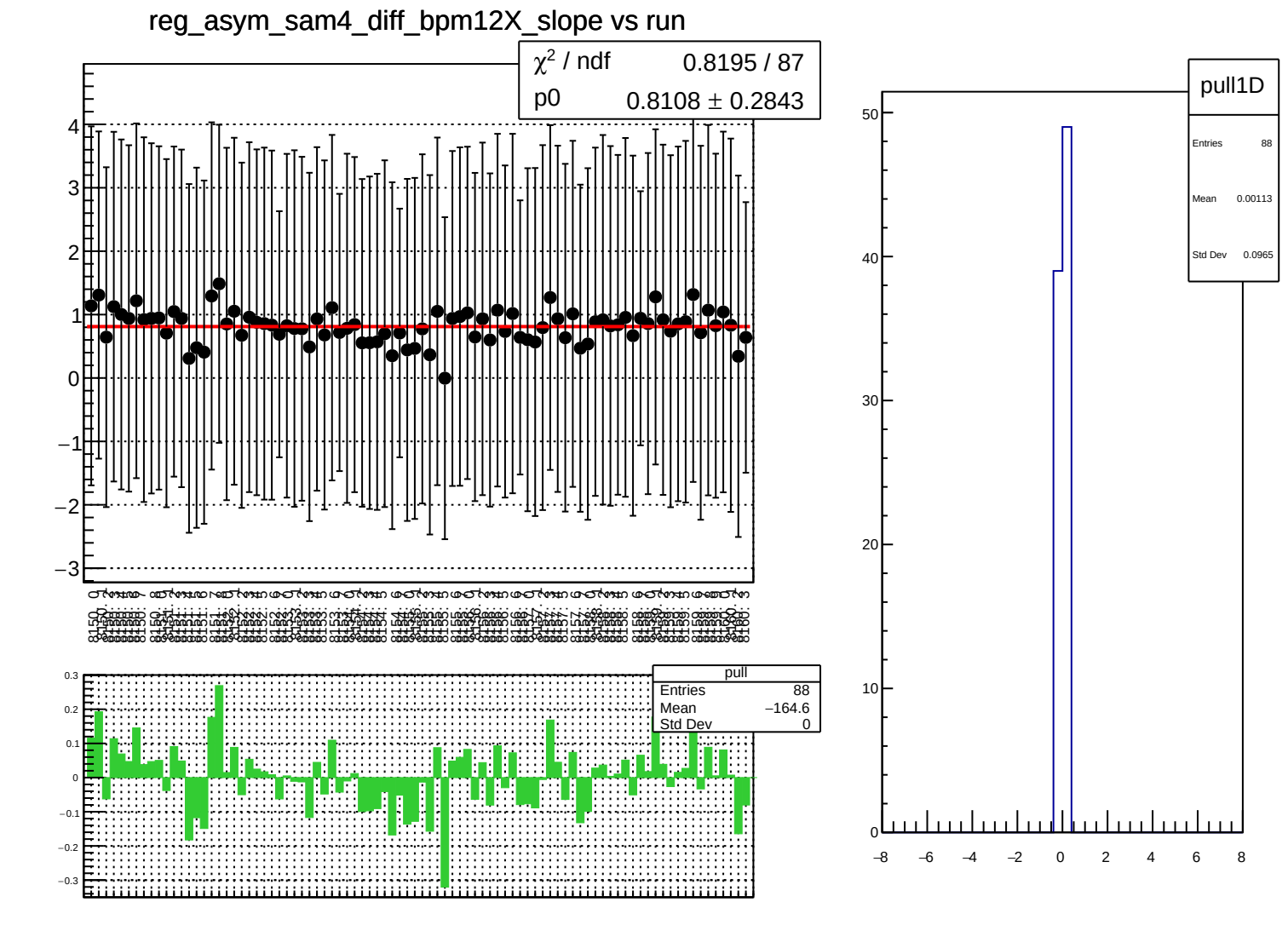

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 0.801 / 87
p0 −19.06 ± 3.025
pull
Entries 88
Mean −738.5
Std Dev 0

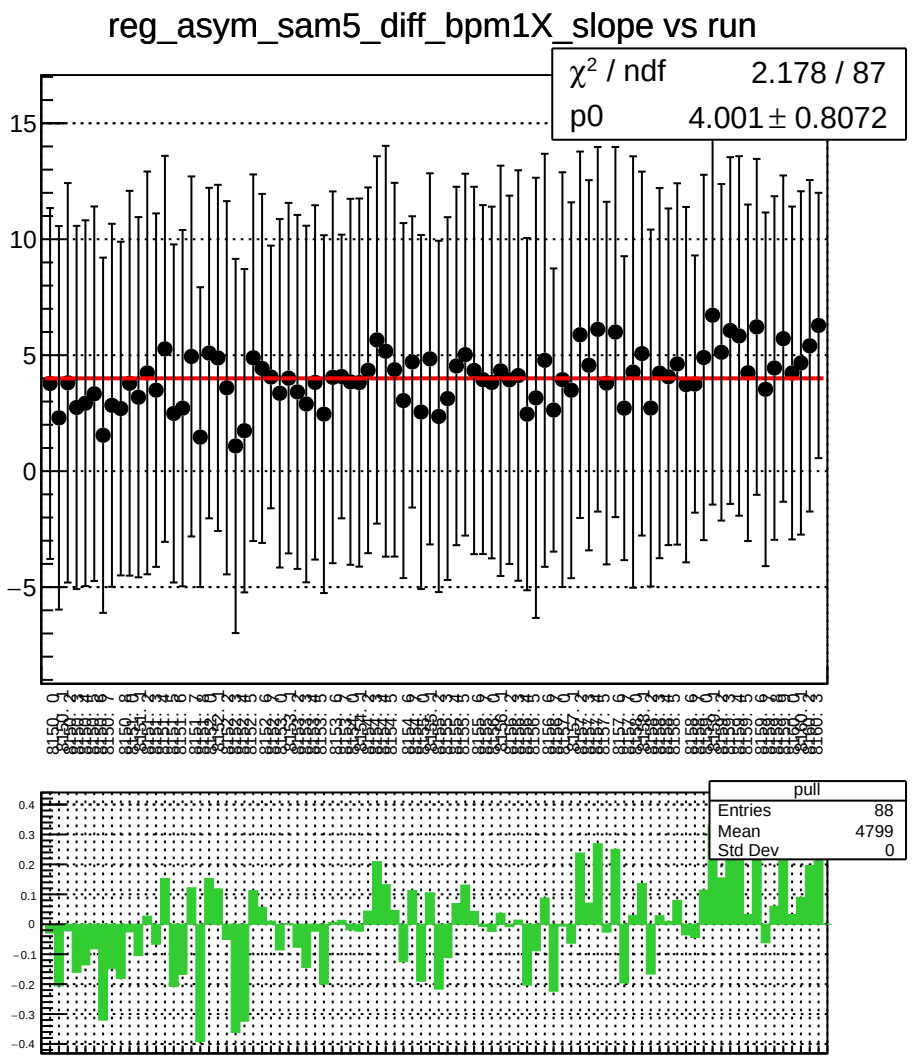

pull1D
Entries 88
Mean −0.001359
Std Dev 0.0954

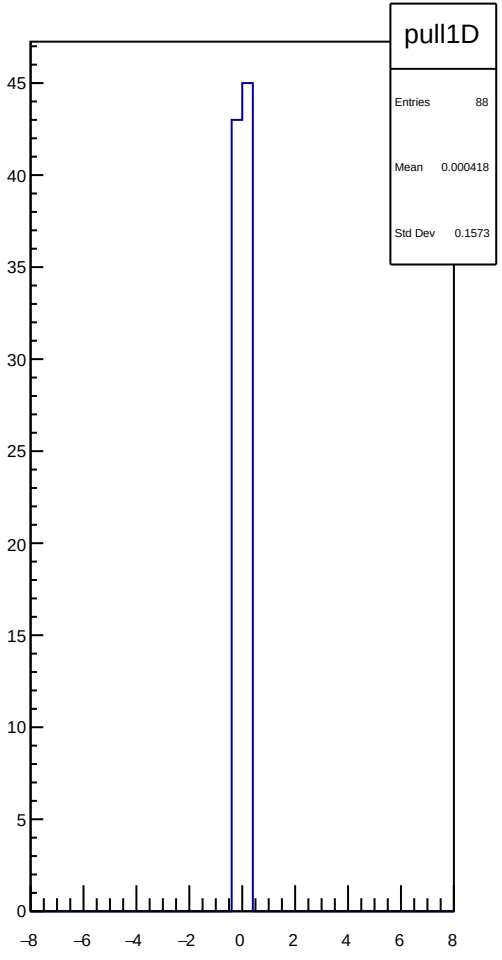

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.325 / 87
p0 106.4 ± 5.664
pull
Entries 88
Mean −831.9
Std Dev 0
pull1D
Entries 88
Mean −0.001656
Std Dev 0.1227

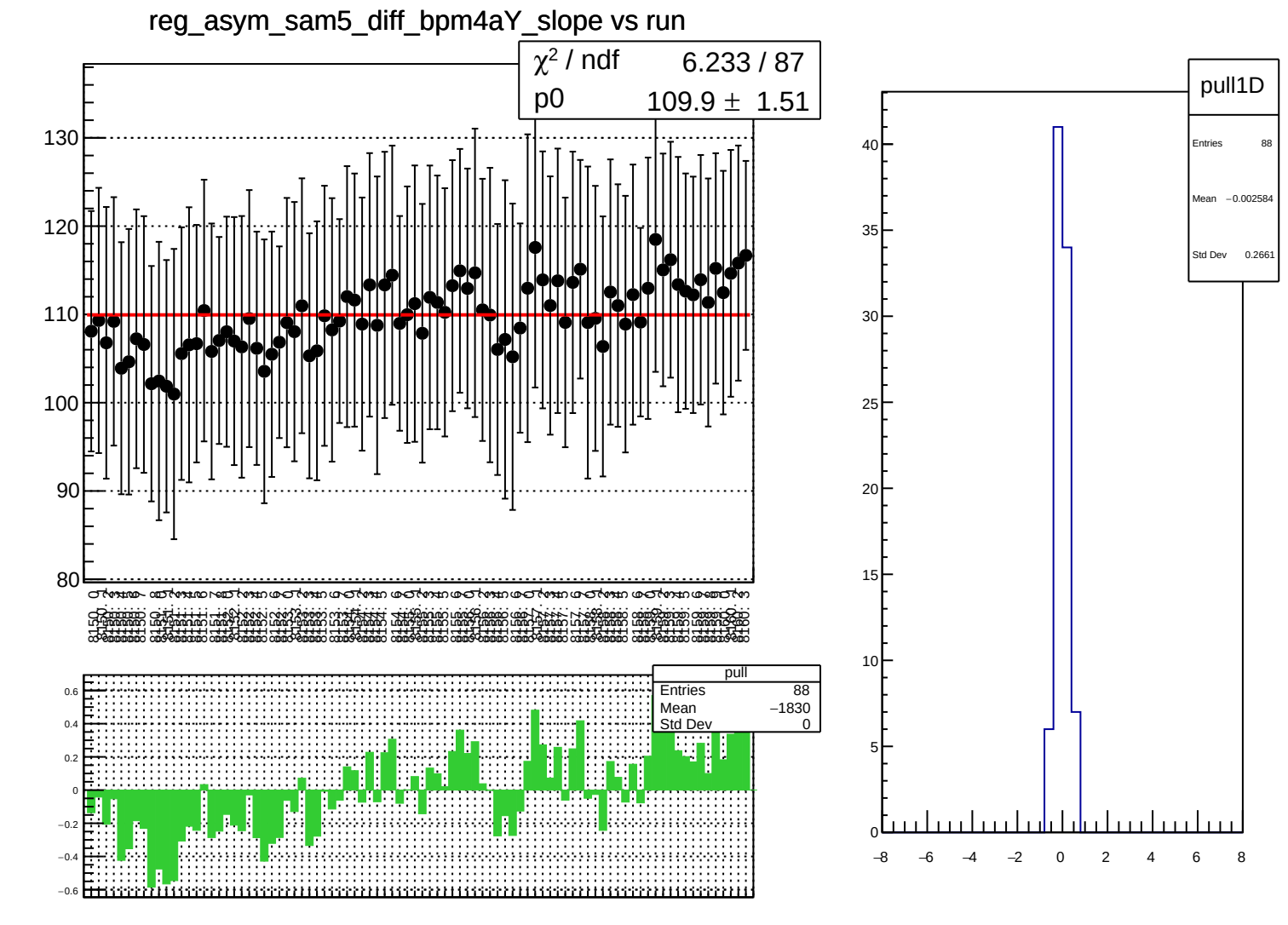

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 0.9268 / 87
p0 −182.4 ± 3.066
pull
Entries 88
Mean −576.6
Std Dev 0
pull1D
Entries 88
Mean 0.001666
Std Dev 0.1026

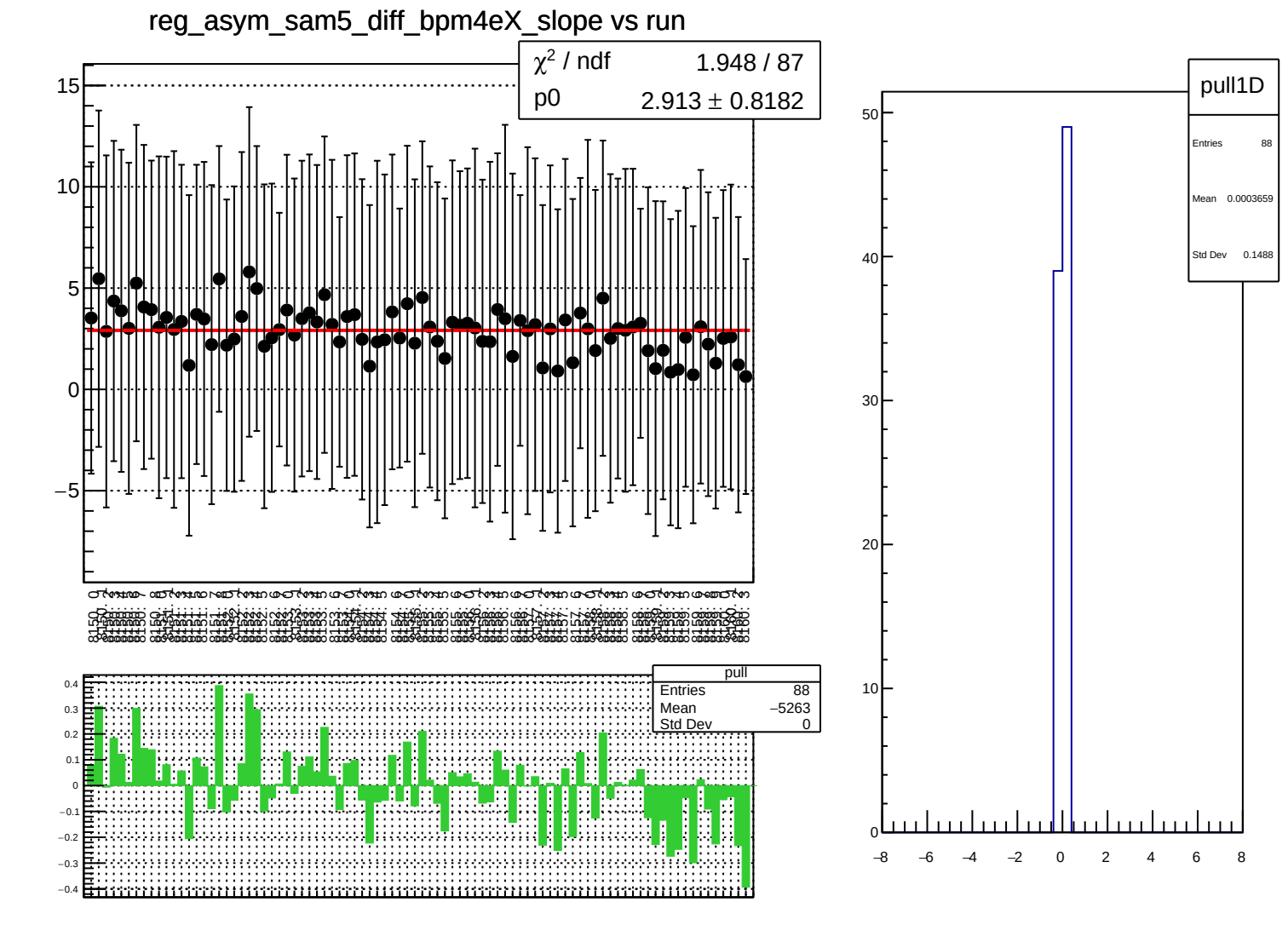

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 1.304 / 87
p0 137.3 ± 6.07
pull
Entries 88
Mean −892
Std Dev 0
pull1D
Entries 88
Mean 0.00155
Std Dev 0.1217

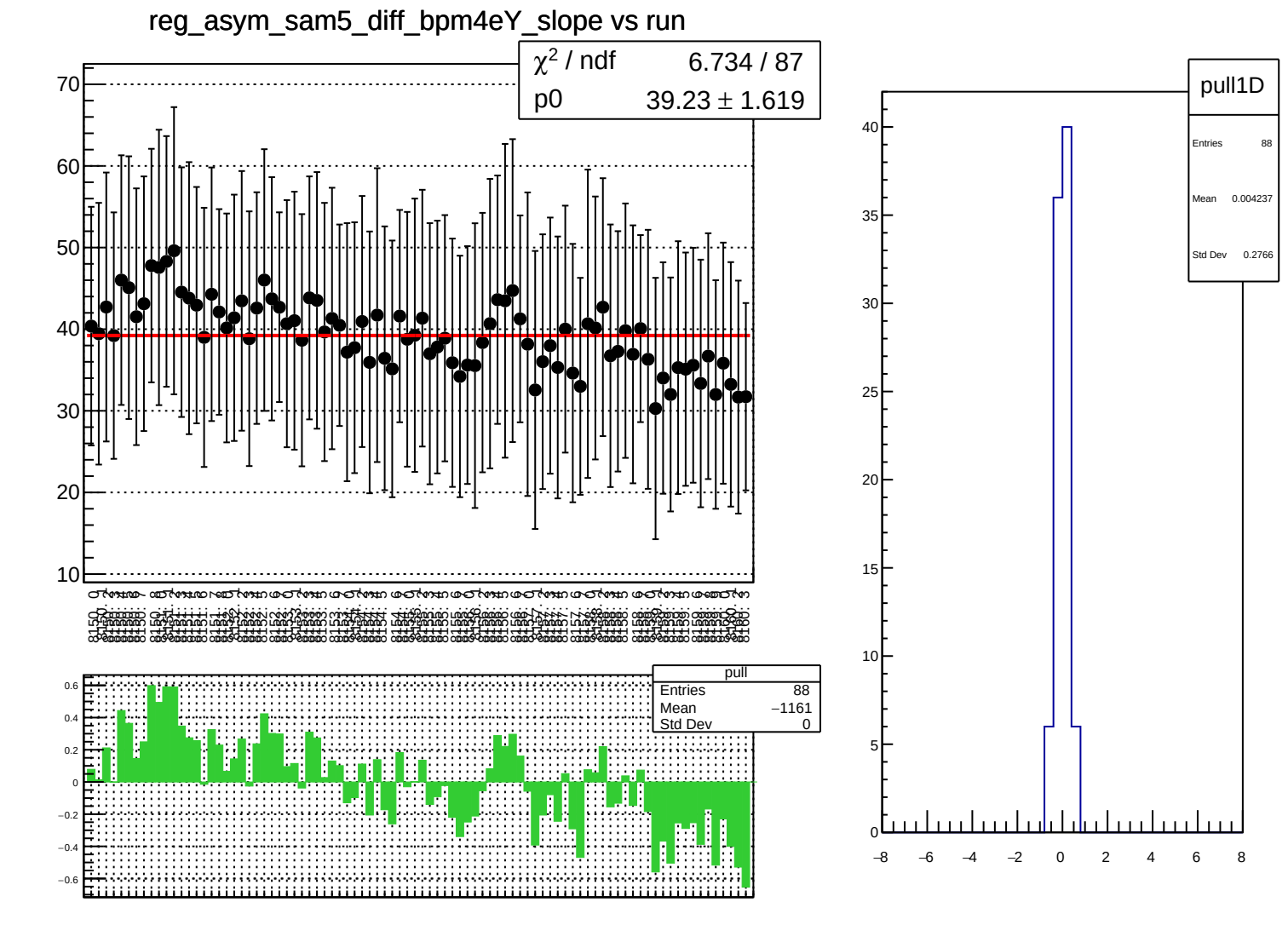

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 0.8195 / 87
p0 0.8108 ± 0.2843
pull
Entries 88
Mean −164.6
Std Dev 0
pull1D
Entries 88
Mean 0.00113
Std Dev 0.0965

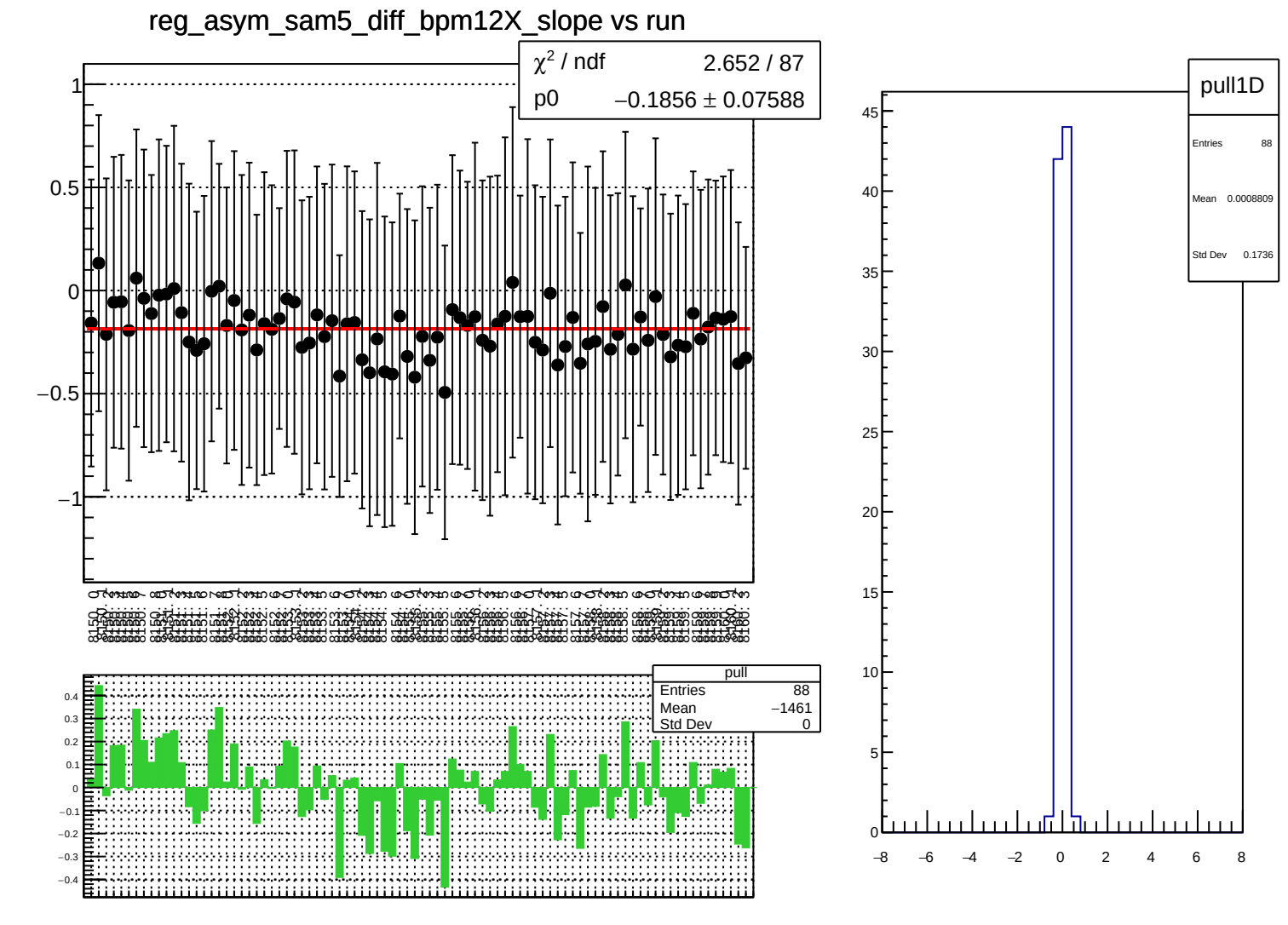

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 2.178 / 87
p0 4.001 ± 0.8072
pull
Entries 88
Mean 4799
Std Dev 0

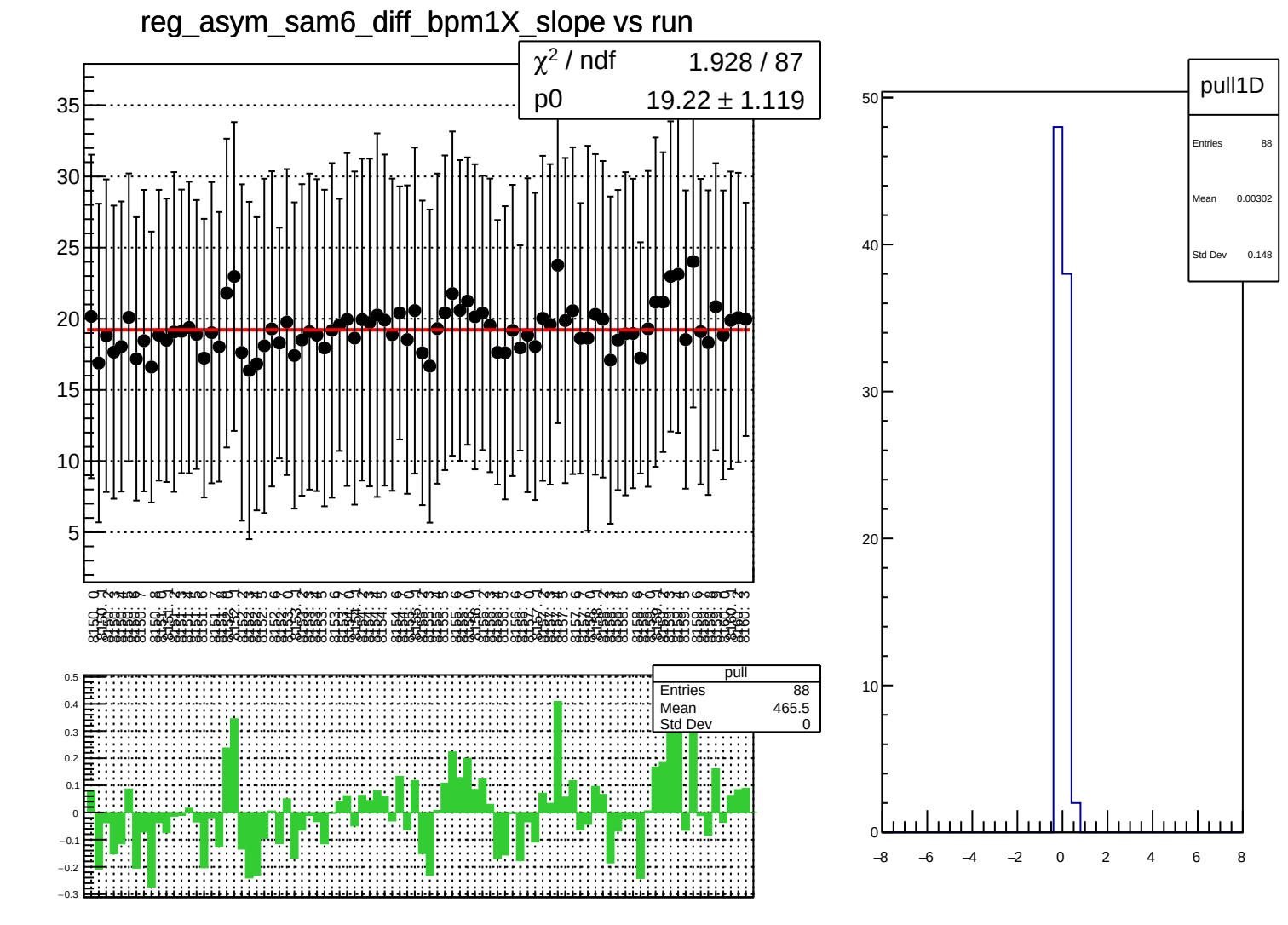

pull1D
Entries 88
Mean 0.000418
Std Dev 0.1573

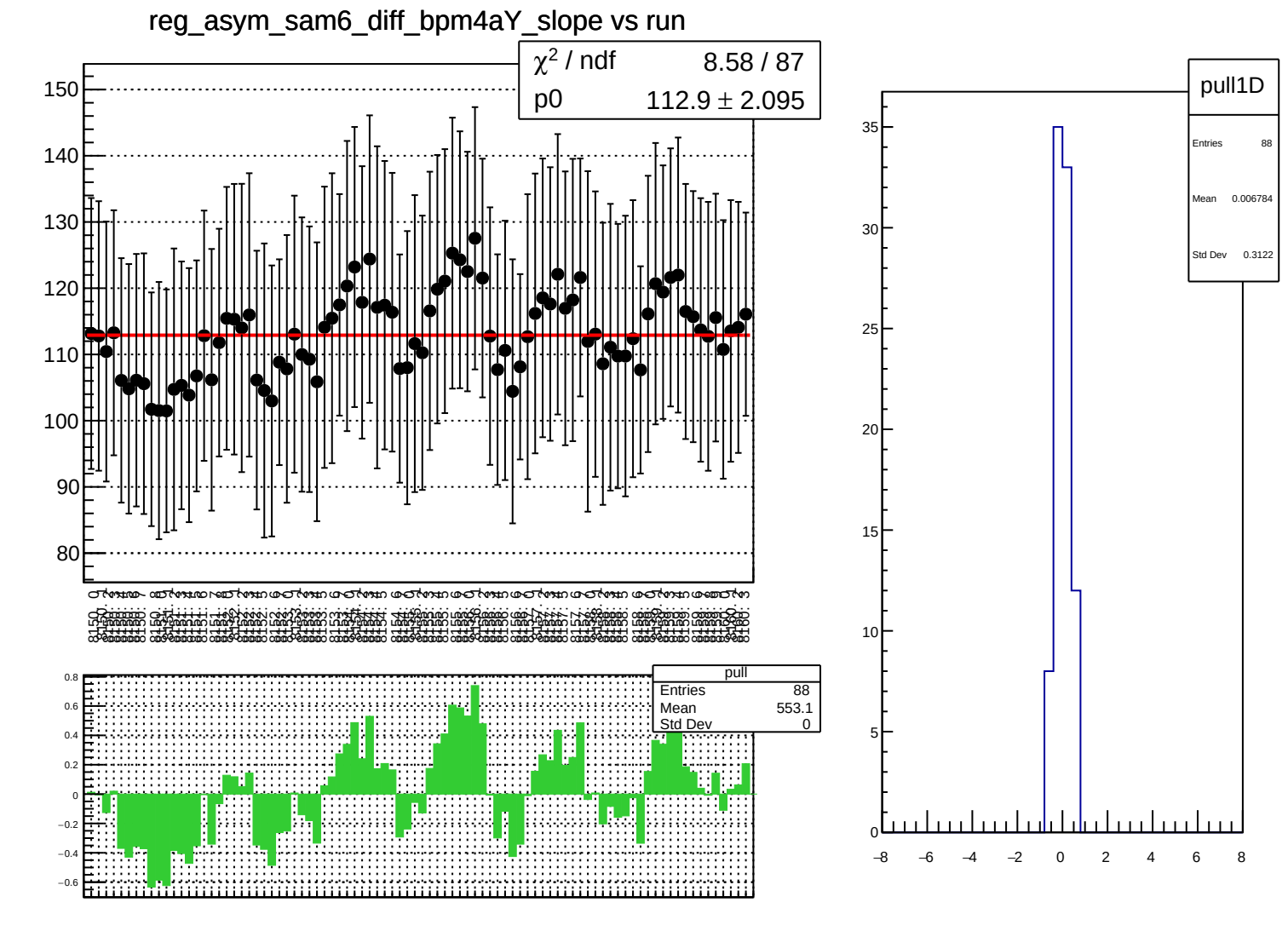

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 6.233 / 87
p0 109.9 ± 1.51
pull
Entries 88
Mean −1830
Std Dev 0
pull1D
Entries 88
Mean −0.002584
Std Dev 0.2661

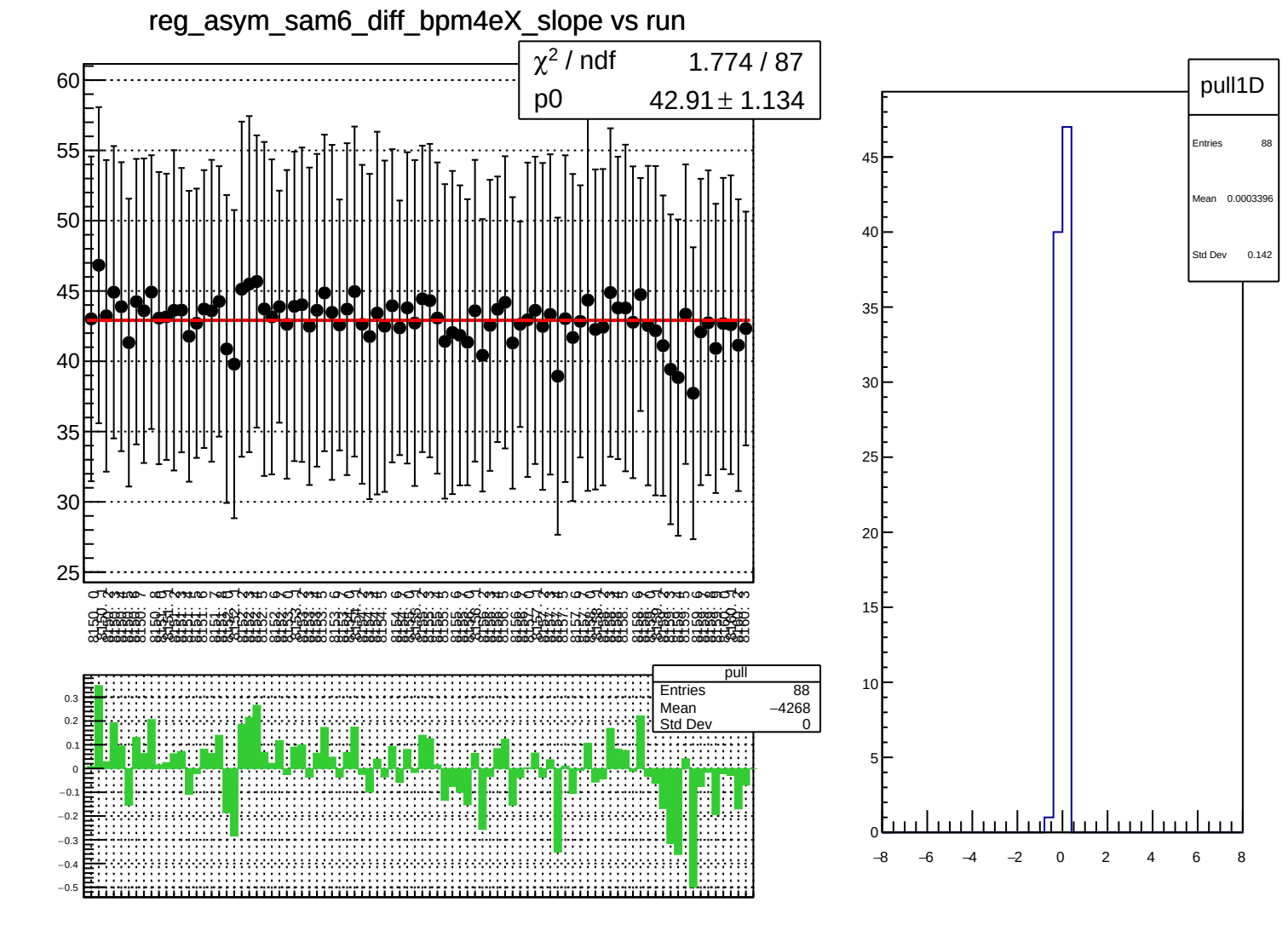

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 1.948 / 87
p0 2.913 ± 0.8182
pull
Entries 88
Mean −5263
Std Dev 0
pull1D
Entries 88
Mean 0.0003659
Std Dev 0.1488

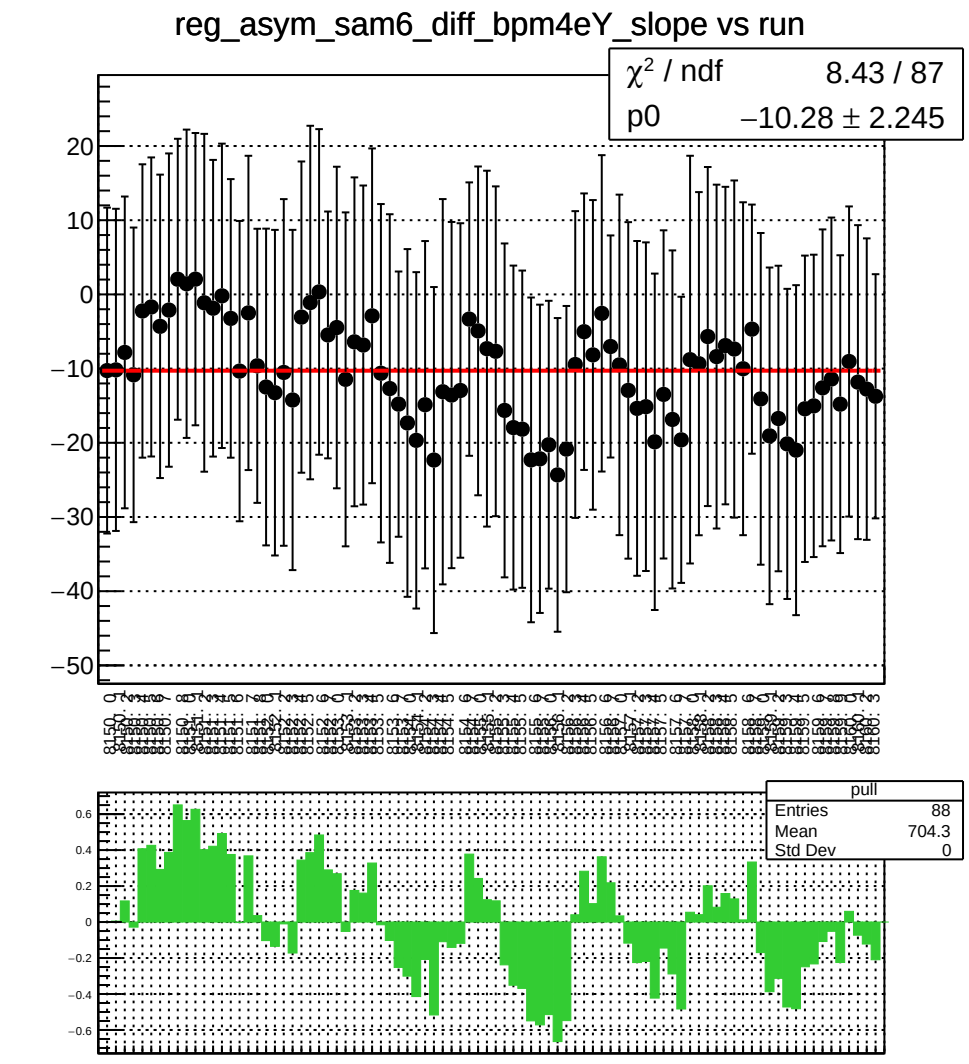

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 6.734 / 87
p0 39.23 ± 1.619
pull
Entries 88
Mean −1161
Std Dev 0
pull1D
Entries 88
Mean 0.004237
Std Dev 0.2766

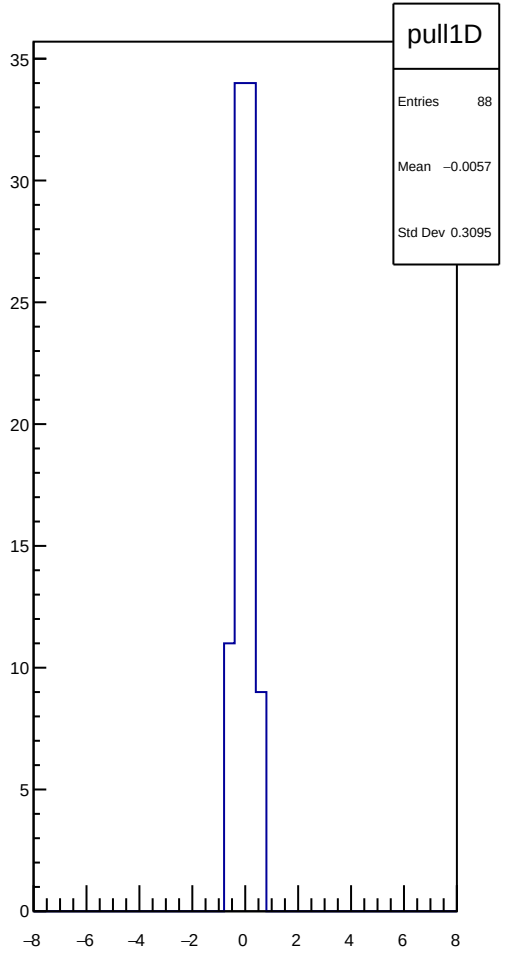

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 2.652 / 87
p0 −0.1856 ± 0.07588
pull
Entries 88
Mean −1461
Std Dev 0
pull1D
Entries 88
Mean 0.0008809
Std Dev 0.1736

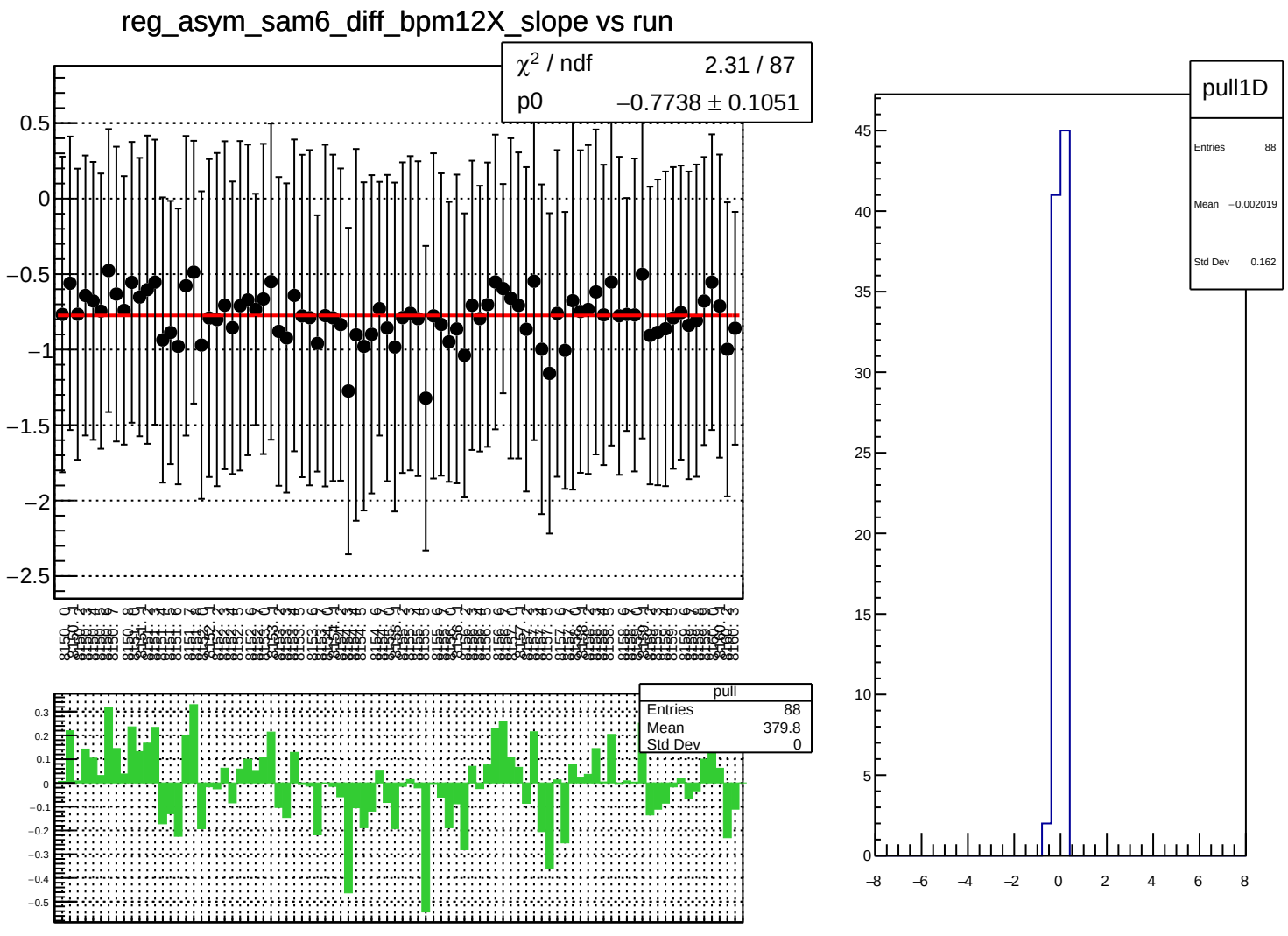

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 1.928 / 87
p0 19.22 ± 1.119
pull
Entries 88
Mean 465.5
Std Dev 0
pull1D
Entries 88
Mean 0.00302
Std Dev 0.148

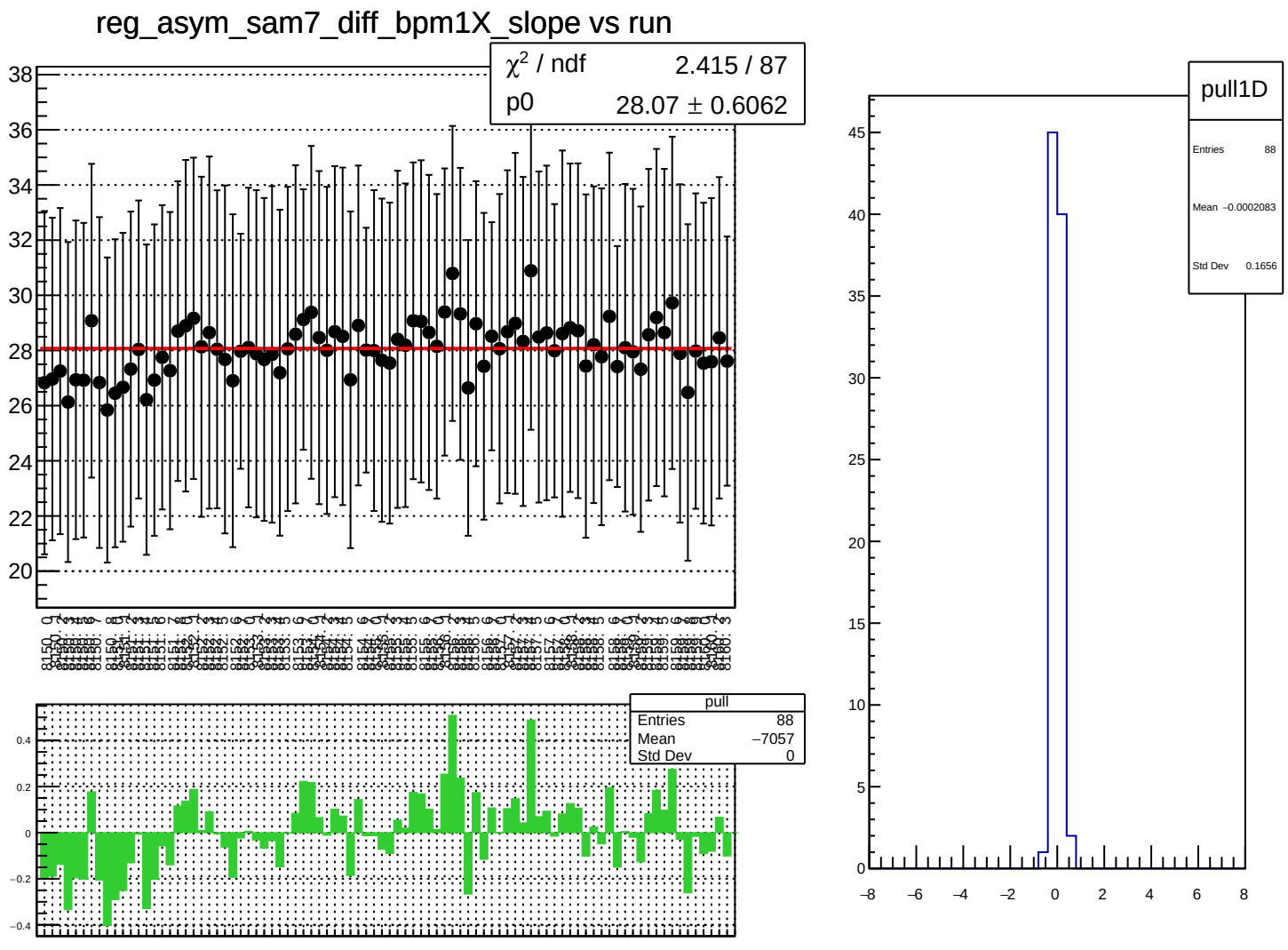

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 8.58 / 87
p0 112.9 ± 2.095
150
140
130
120
110
100
90
80
pull
Entries 88
Mean 553.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.006784
Std Dev 0.3122
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

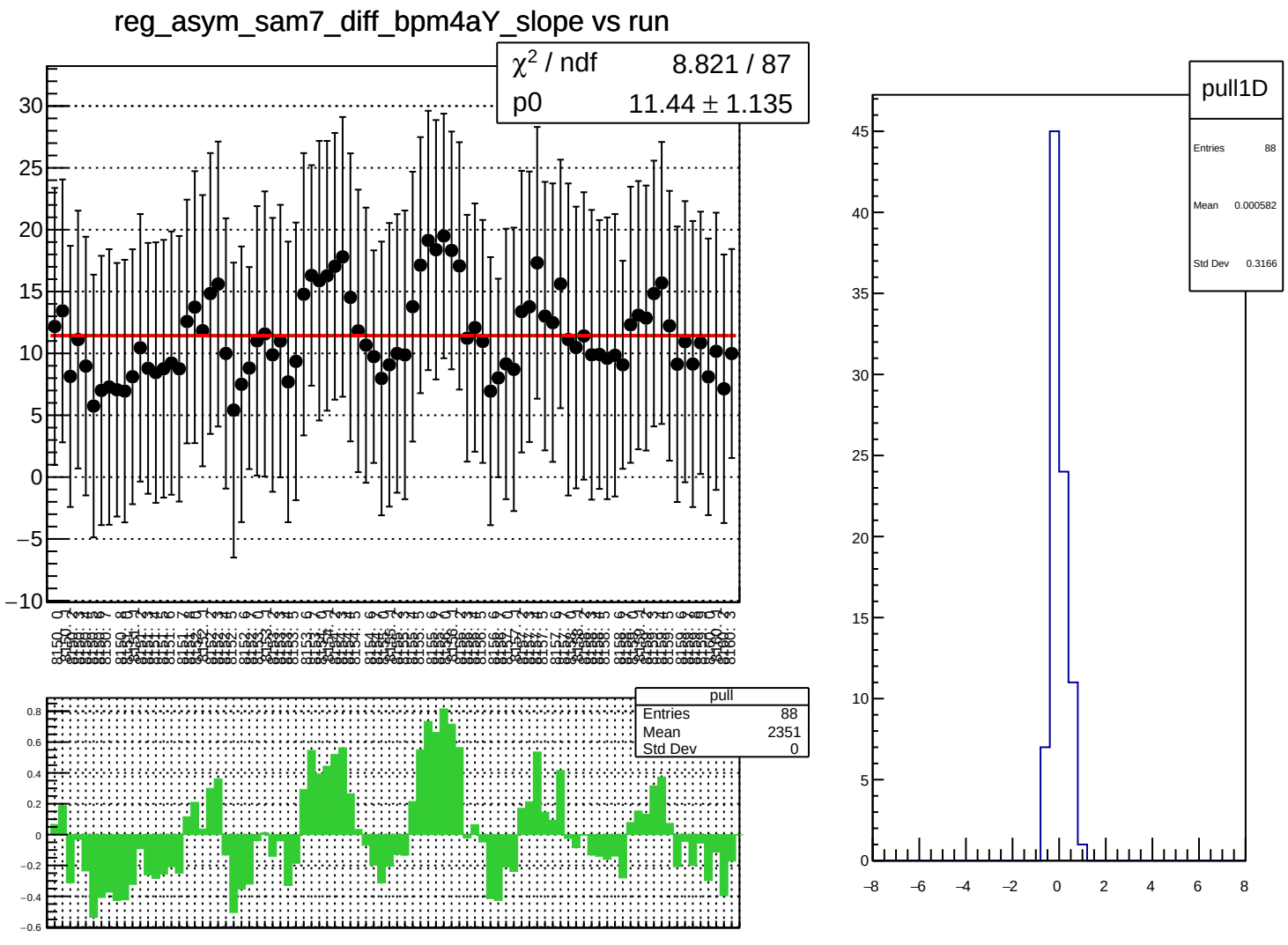

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 1.774 / 87
p0 42.91 ± 1.134
pull
Entries 88
Mean −4268
Std Dev 0
pull1D
Entries 88
Mean 0.0003396
Std Dev 0.142

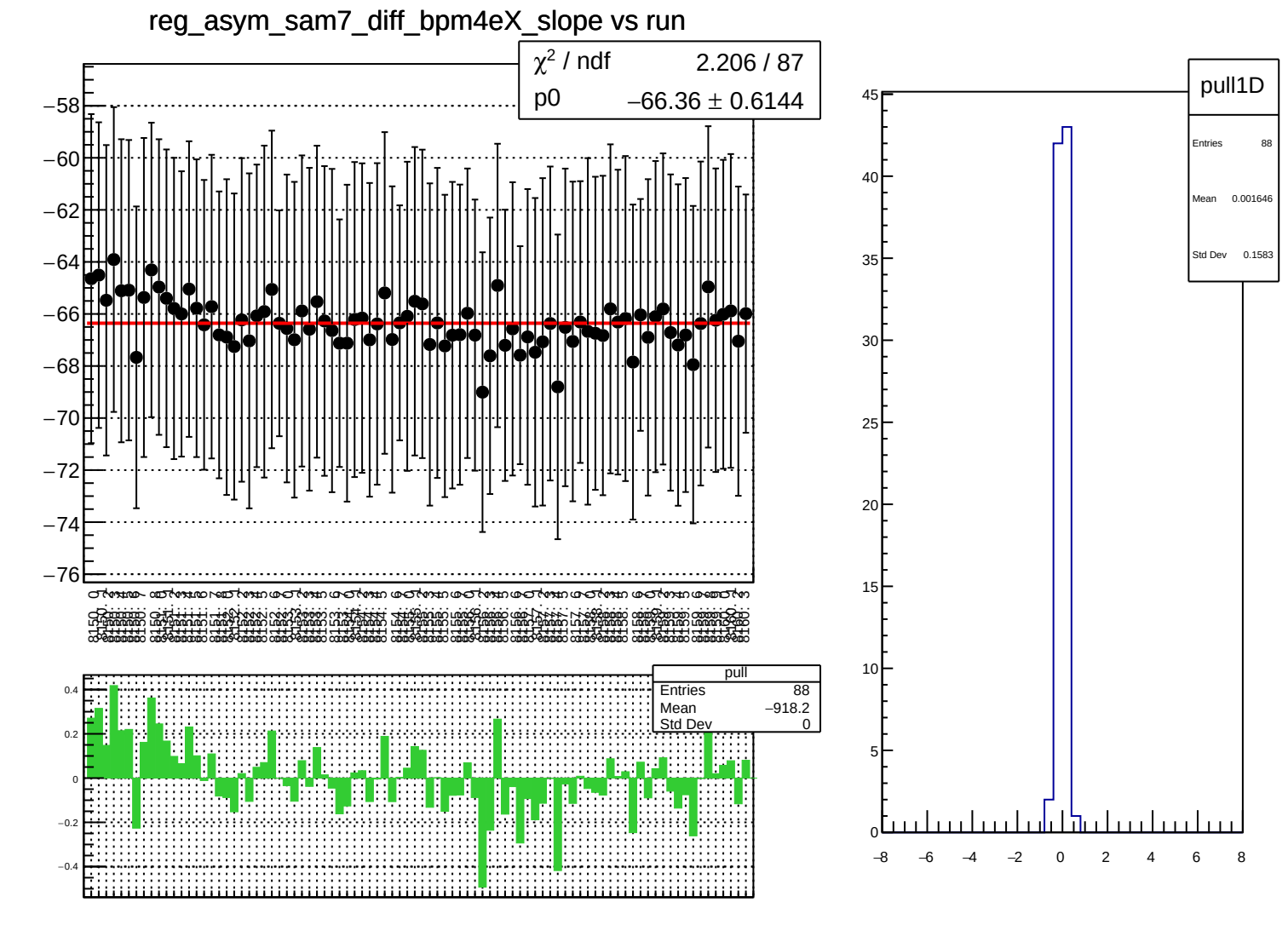

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 8.43 / 87
p0 −10.28 ± 2.245
pull
Entries 88
Mean 704.3
Std Dev 0

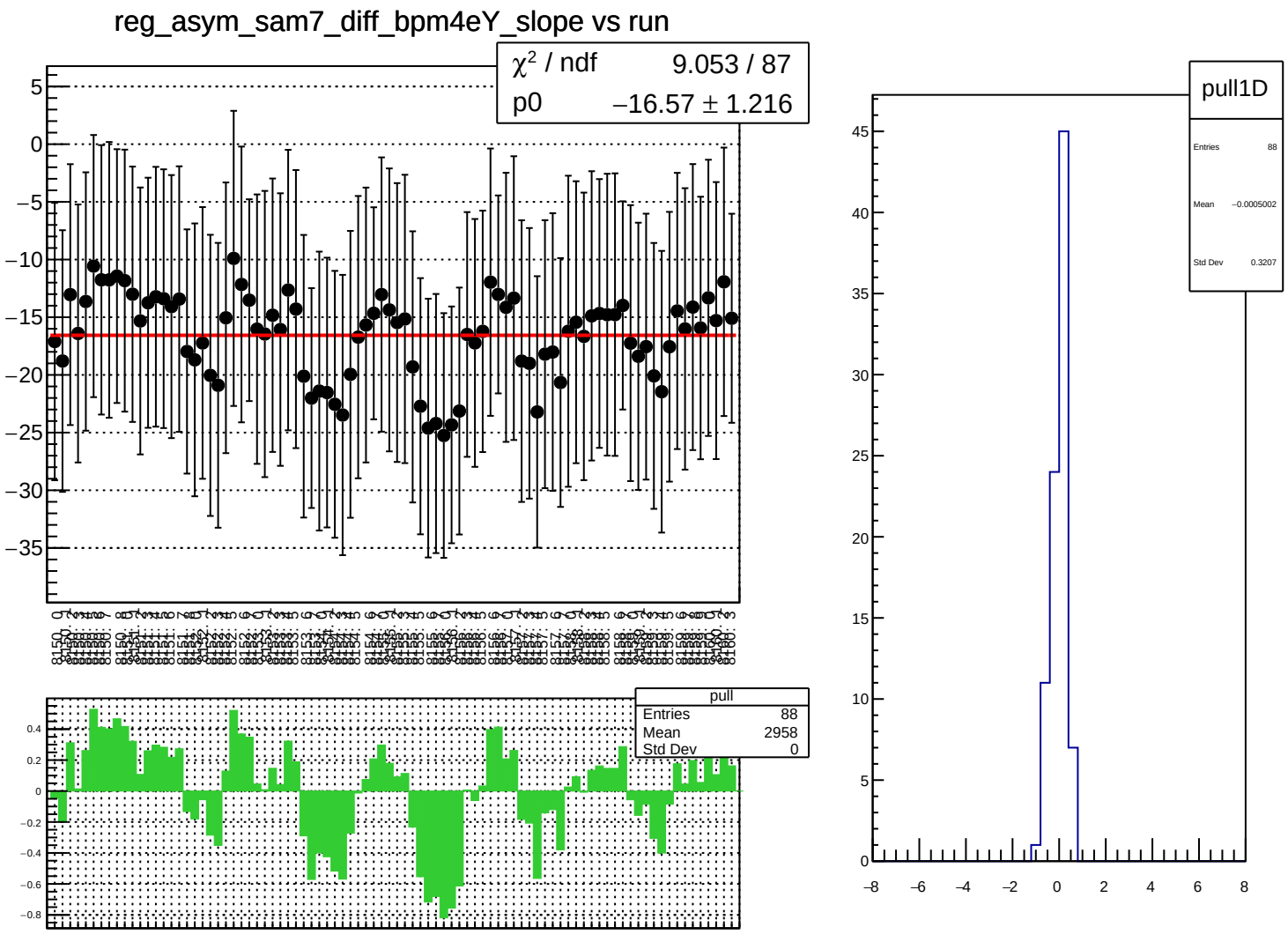

pull1D
Entries 88
Mean −0.0057
Std Dev 0.3095

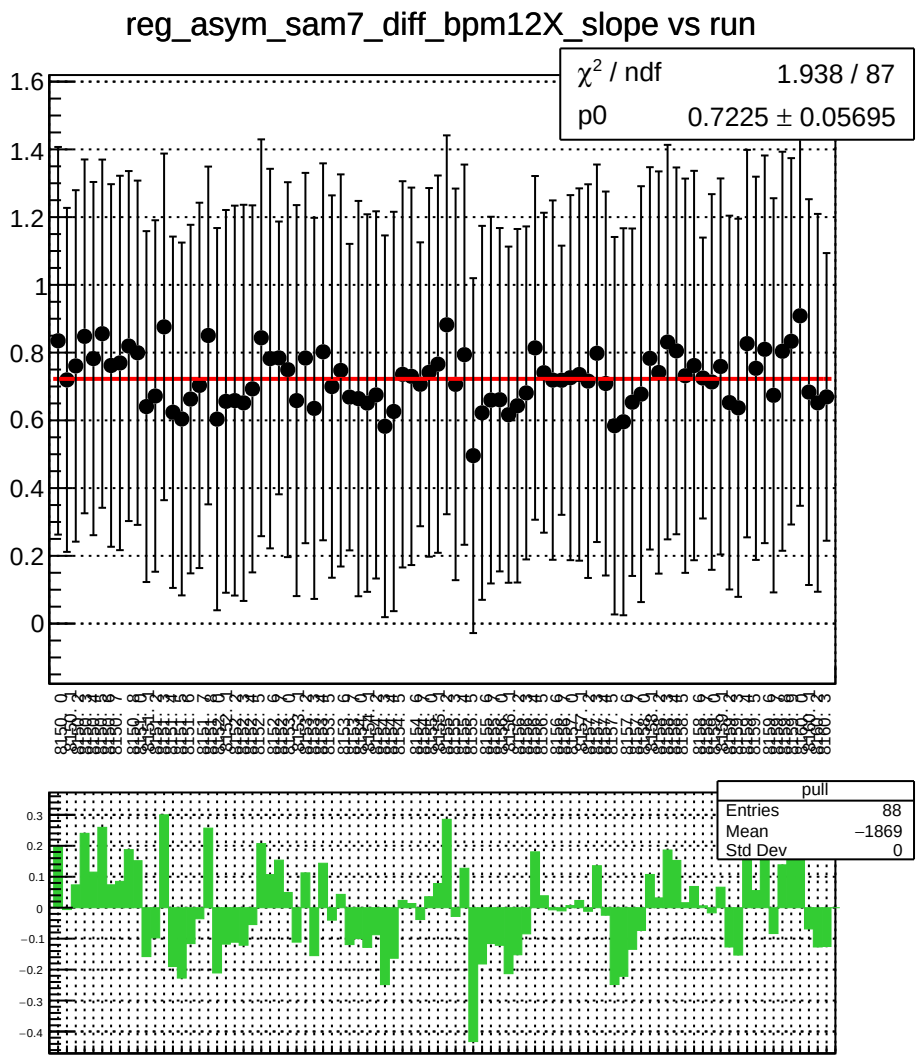

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 2.31 / 87
p0 −0.7738 ± 0.1051
pull
Entries 88
Mean 379.8
Std Dev 0
pull1D
Entries 88
Mean −0.002019
Std Dev 0.162

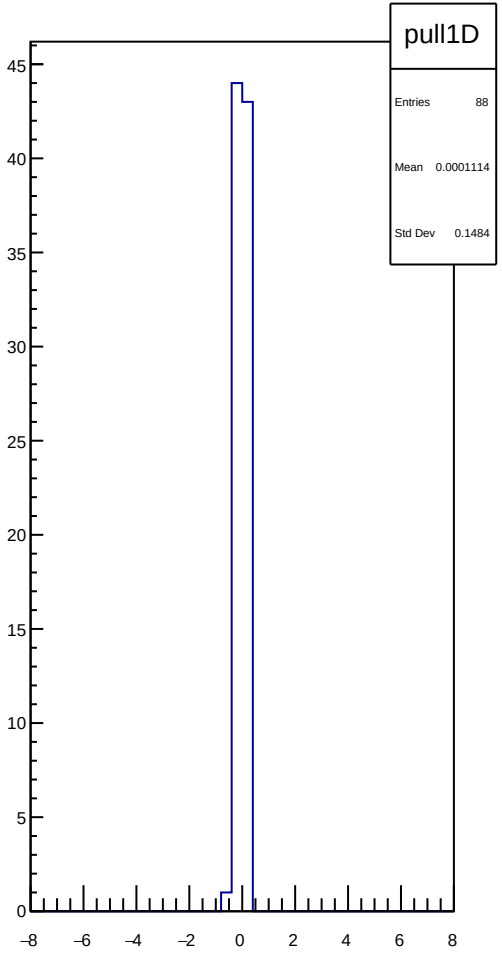

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 2.415 / 87
p0 28.07 ± 0.6062
pull
Entries 88
Mean −7057
Std Dev 0
pull1D
Entries 88
Mean −0.0002083
Std Dev 0.1656

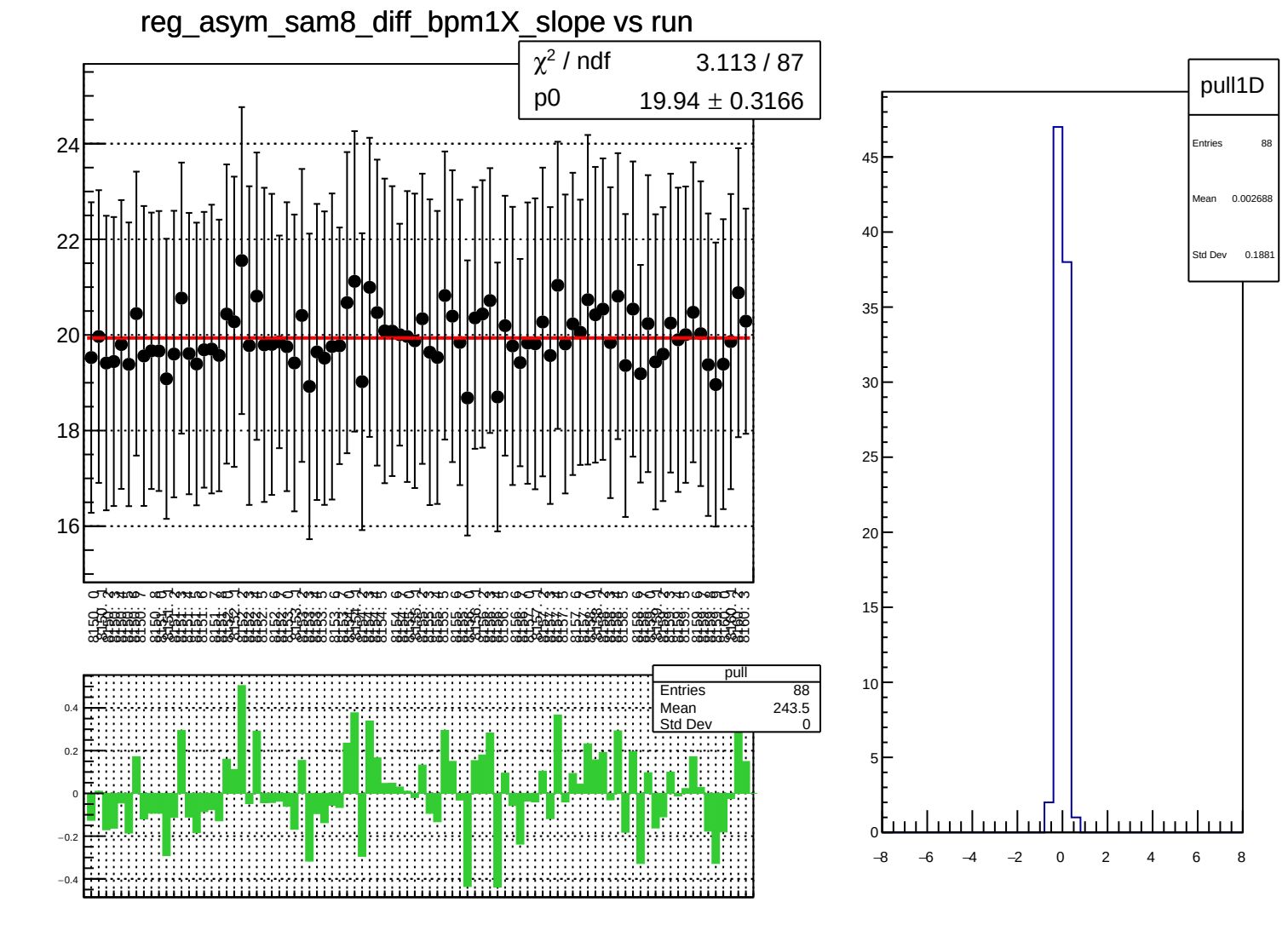

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 8.821 / 87
p0 11.44 ± 1.135
pull
Entries 88
Mean 2351
Std Dev 0
pull1D
Entries 88
Mean 0.000582
Std Dev 0.3166

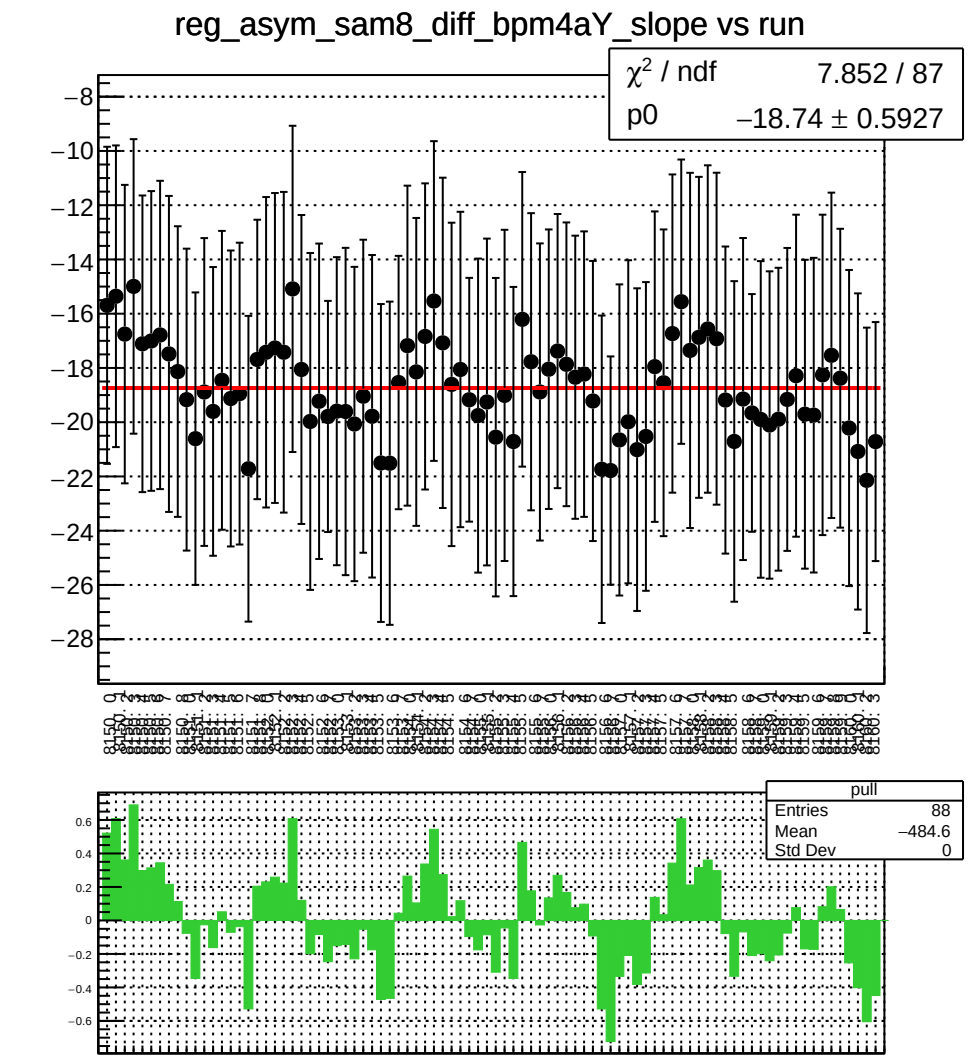

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 2.206 / 87
p0 −66.36 ± 0.6144
pull
Entries 88
Mean −918.2
Std Dev 0
pull1D
Entries 88
Mean 0.001646
Std Dev 0.1583

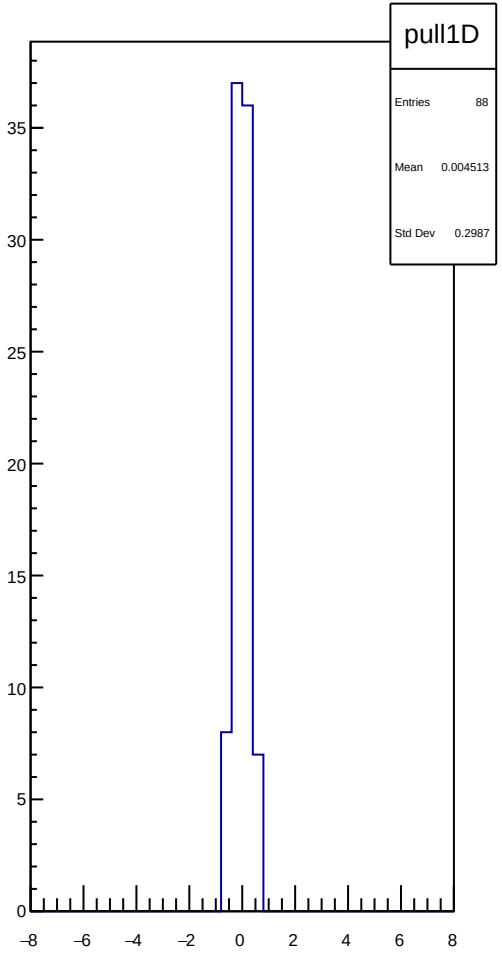

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 9.053 / 87
p0 −16.57 ± 1.216
pull
Entries 88
Mean 2958
Std Dev 0
pull1D
Entries 88
Mean −0.0005002
Std Dev 0.3207

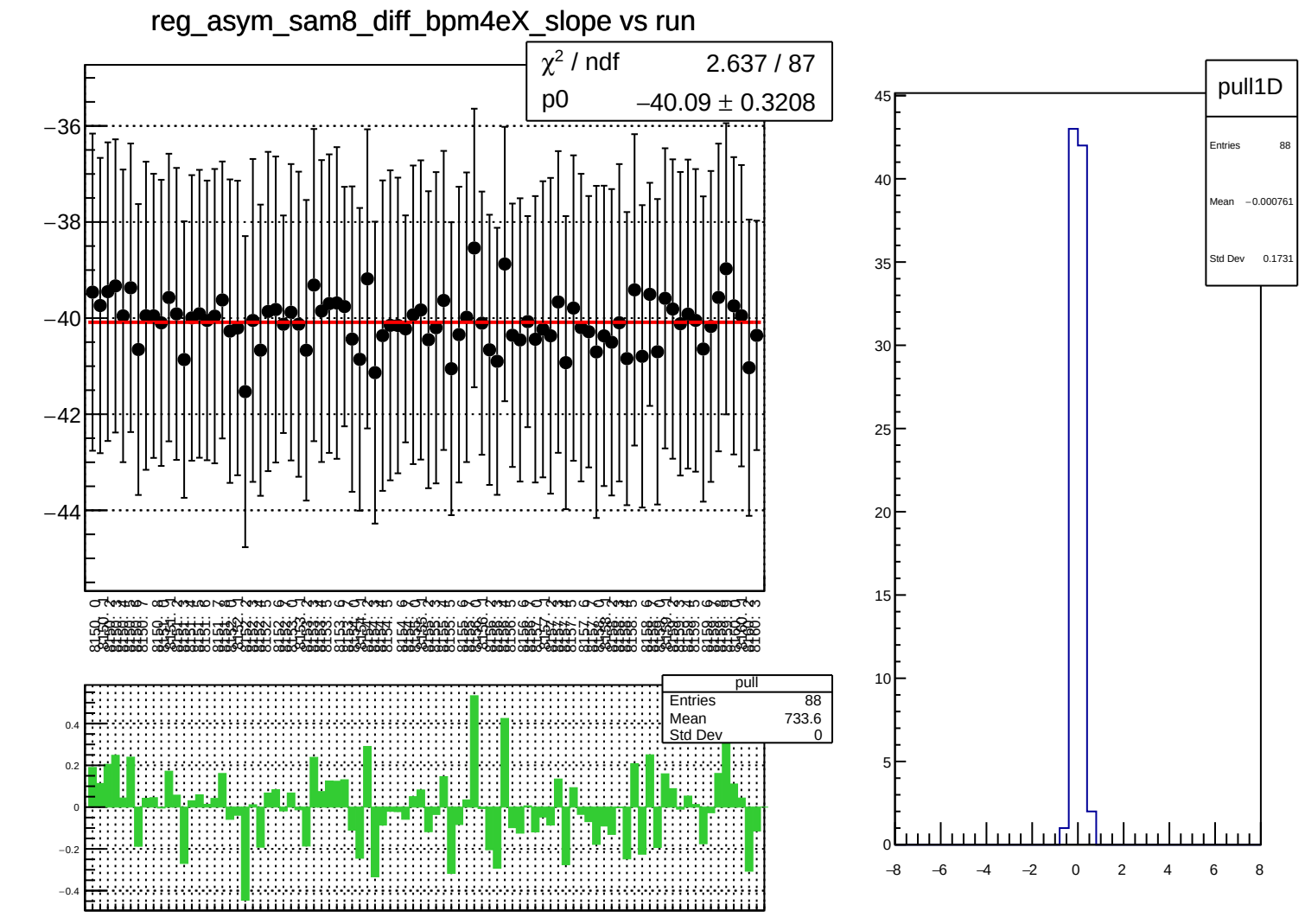

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 1.938 / 87
p0 0.7225 ± 0.05695
pull
Entries 88
Mean −1869
Std Dev 0

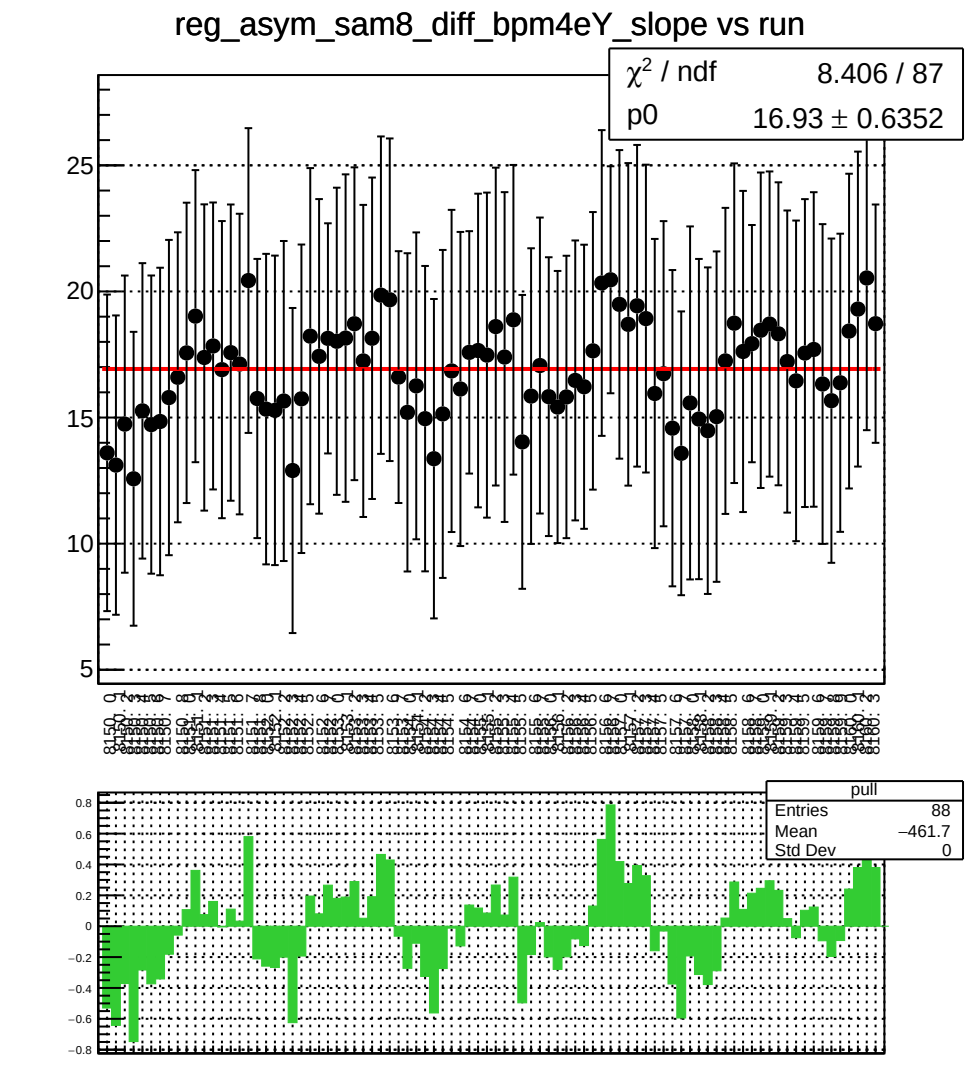

pull1D
Entries 88
Mean 0.0001114
Std Dev 0.1484

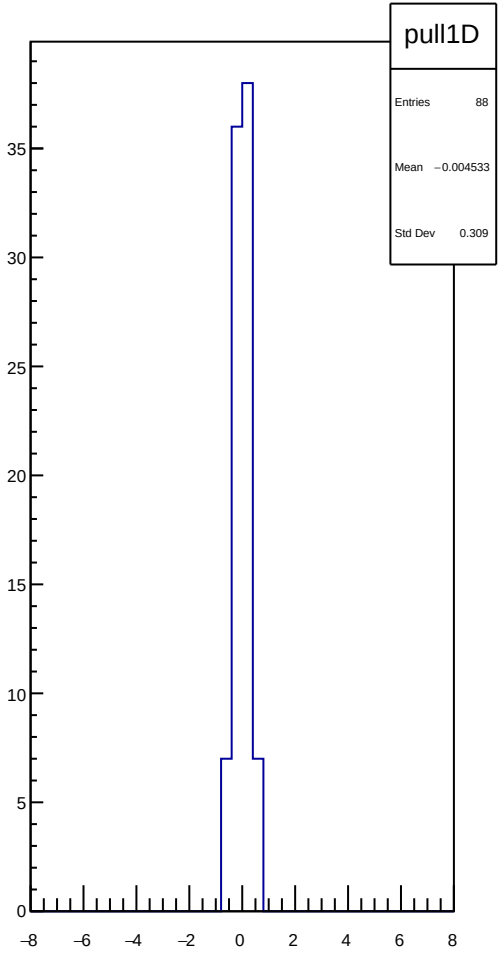

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 3.113 / 87
p0 19.94 ± 0.3166
pull
Entries 88
Mean 243.5
Std Dev 0
pull1D
Entries 88
Mean 0.002688
Std Dev 0.1881

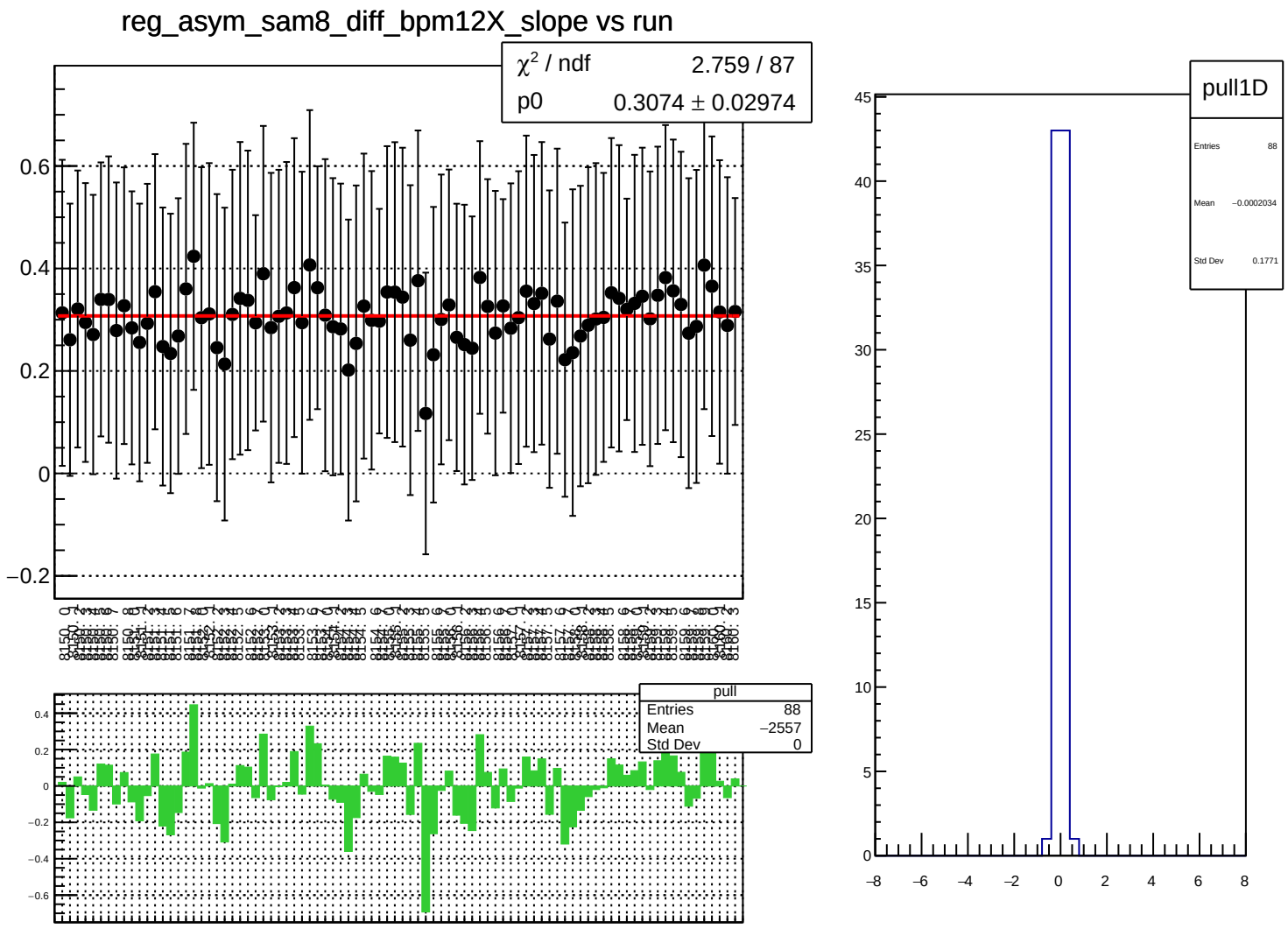

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 7.852 / 87
p0 −18.74 ± 0.5927
pull
Entries 88
Mean −484.6
Std Dev 0

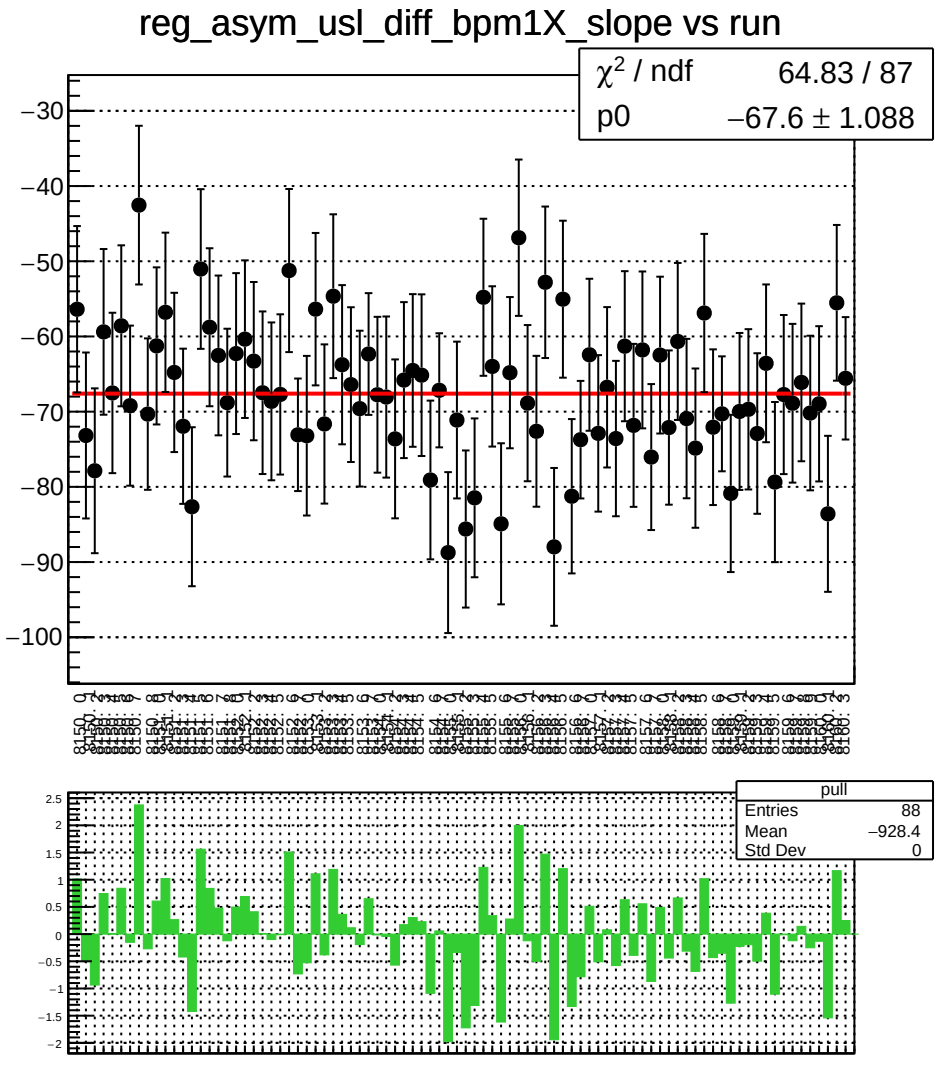

pull1D
Entries 88
Mean 0.004513
Std Dev 0.2987

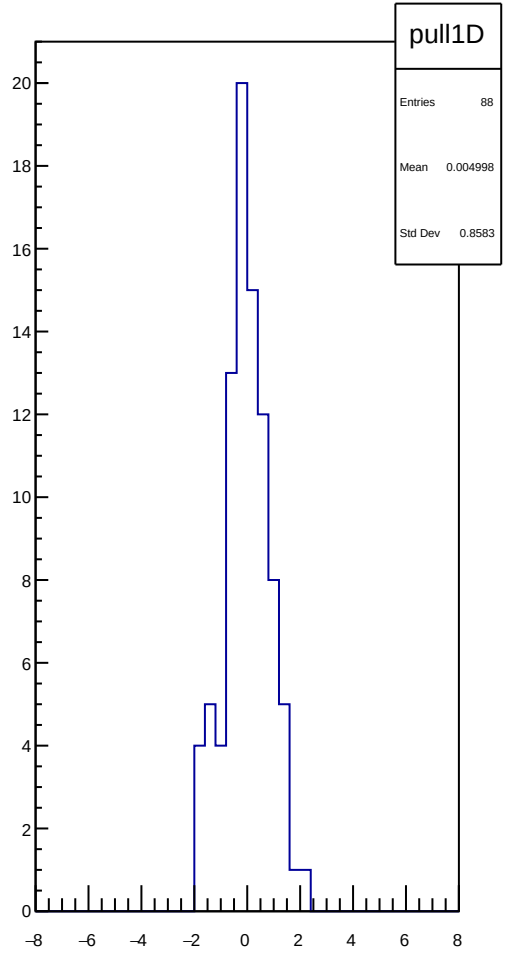

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 2.637 / 87
p0 −40.09 ± 0.3208
−36
−38
−40
−42
−44
pull
Entries 88
Mean 733.6
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.000761
Std Dev 0.1731
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

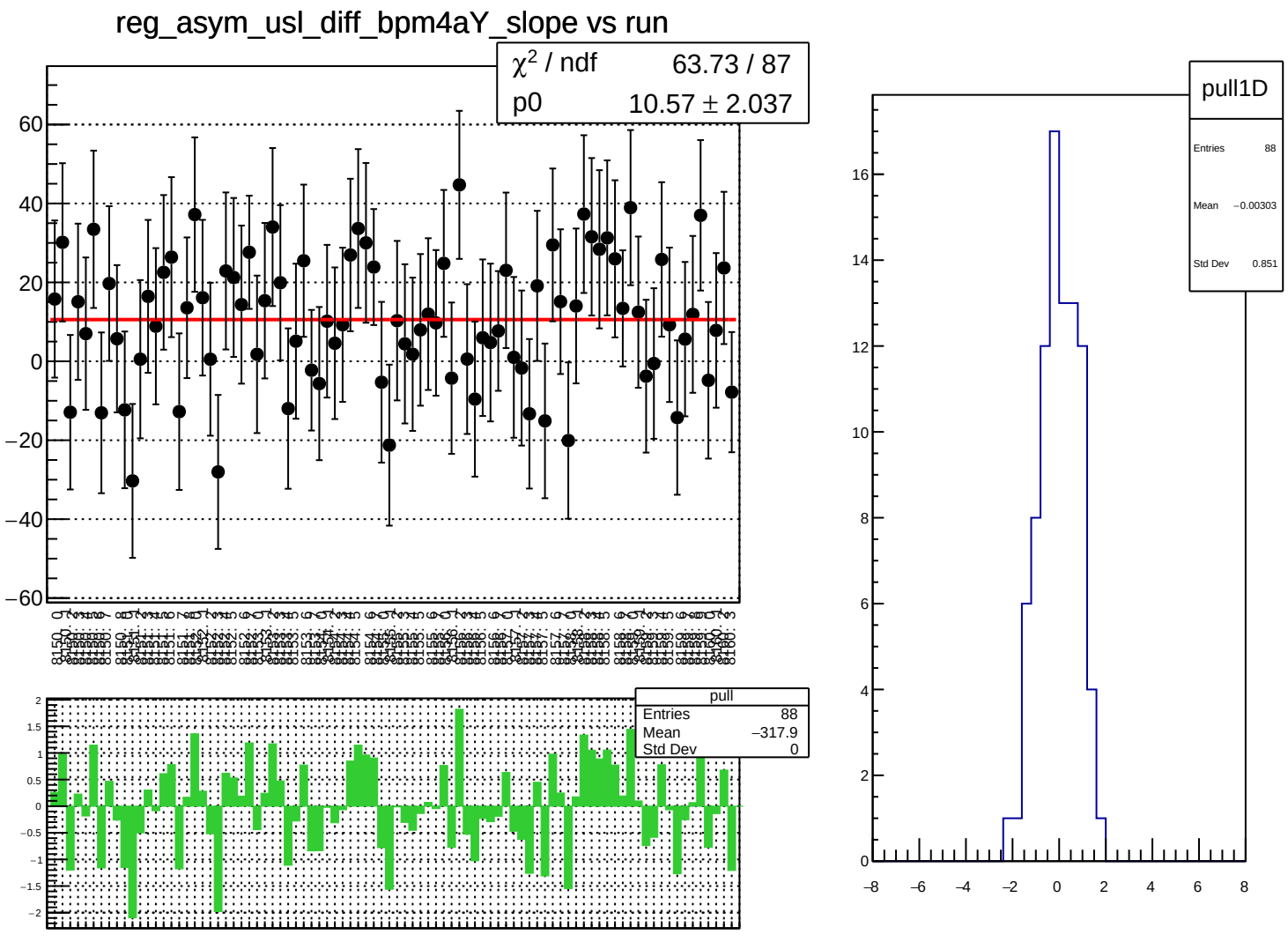

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 8.406 / 87
p0 16.93 ± 0.6352
pull
Entries 88
Mean −461.7
Std Dev 0

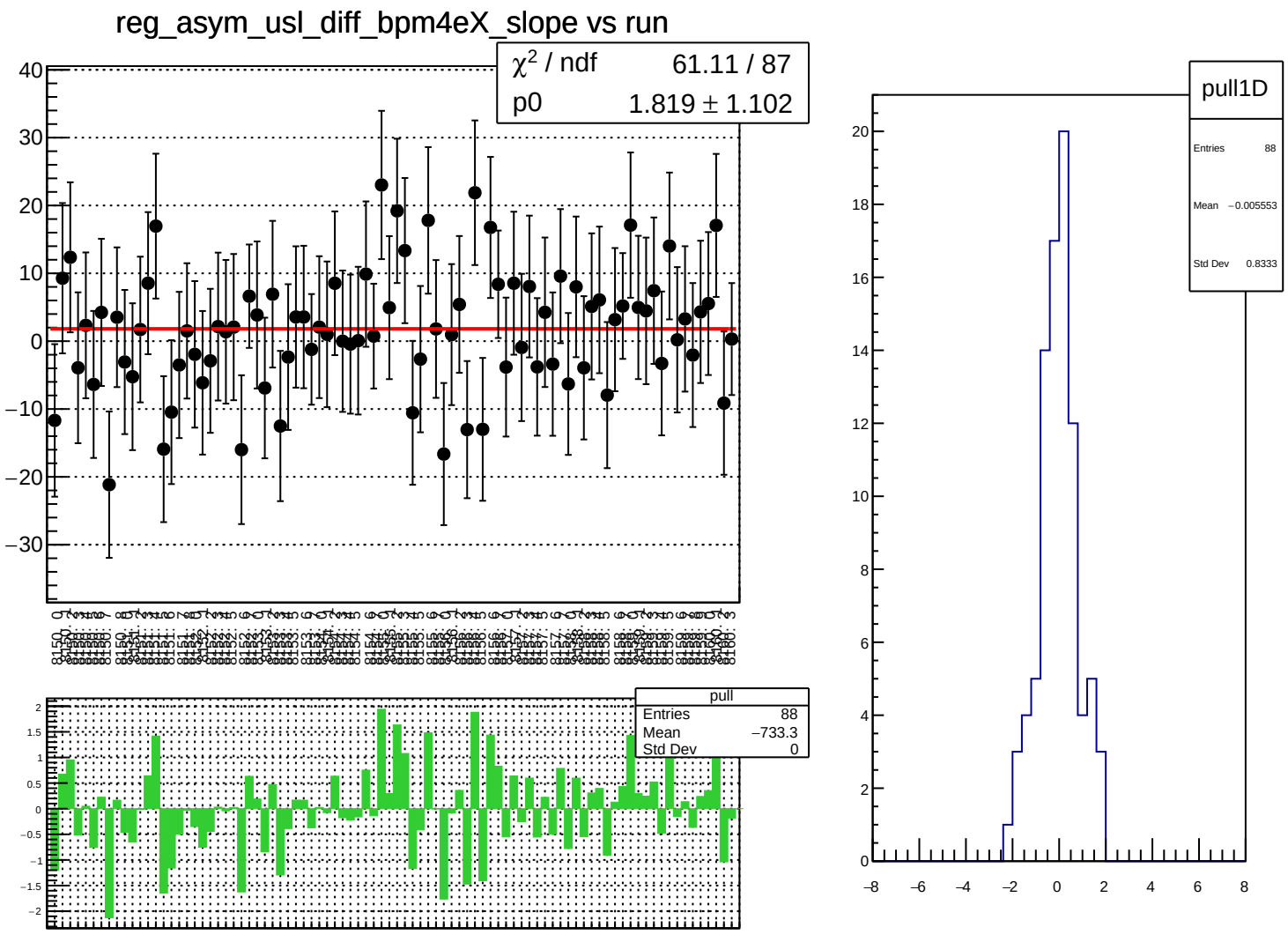

pull1D
Entries 88
Mean −0.004533
Std Dev 0.309

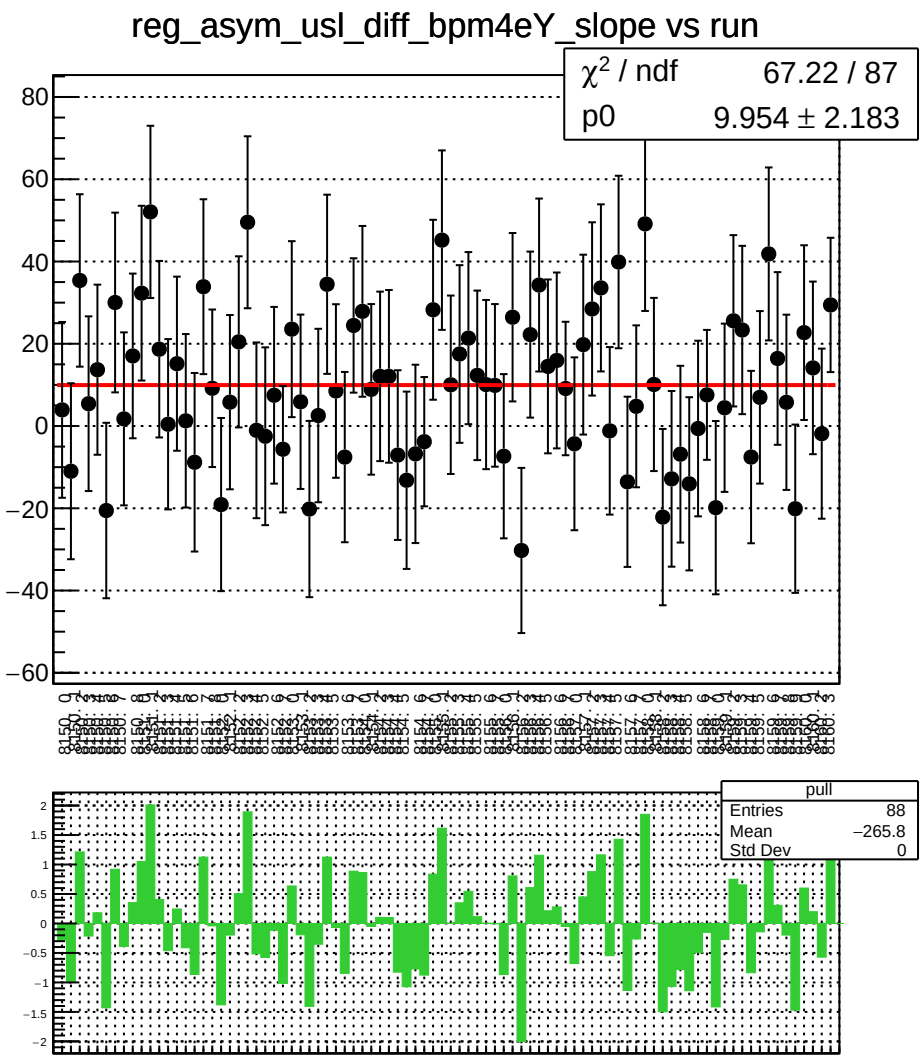

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 2.759 / 87
p0 0.3074 ± 0.02974
pull
Entries 88
Mean −2557
Std Dev 0
pull1D
Entries 88
Mean −0.0002034
Std Dev 0.1771

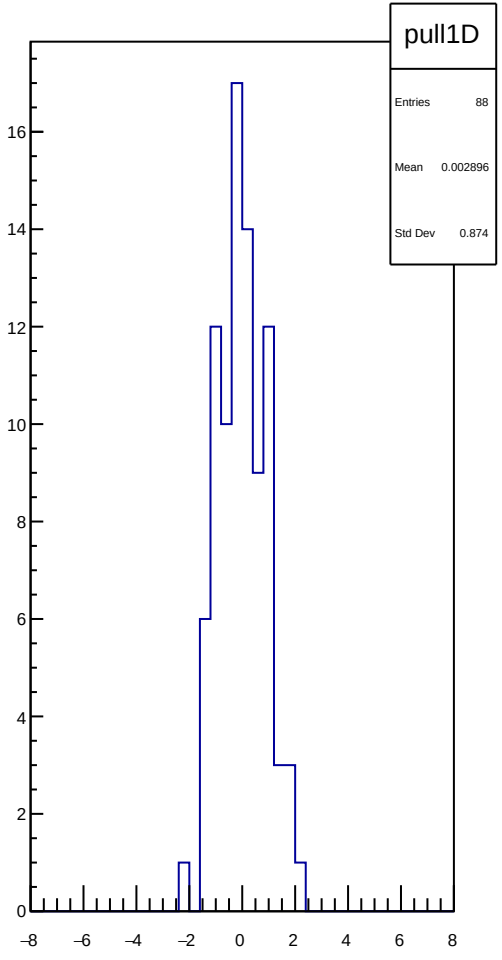

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 64.83 / 87
p0 −67.6 ± 1.088
pull
Entries 88
Mean −928.4
Std Dev 0

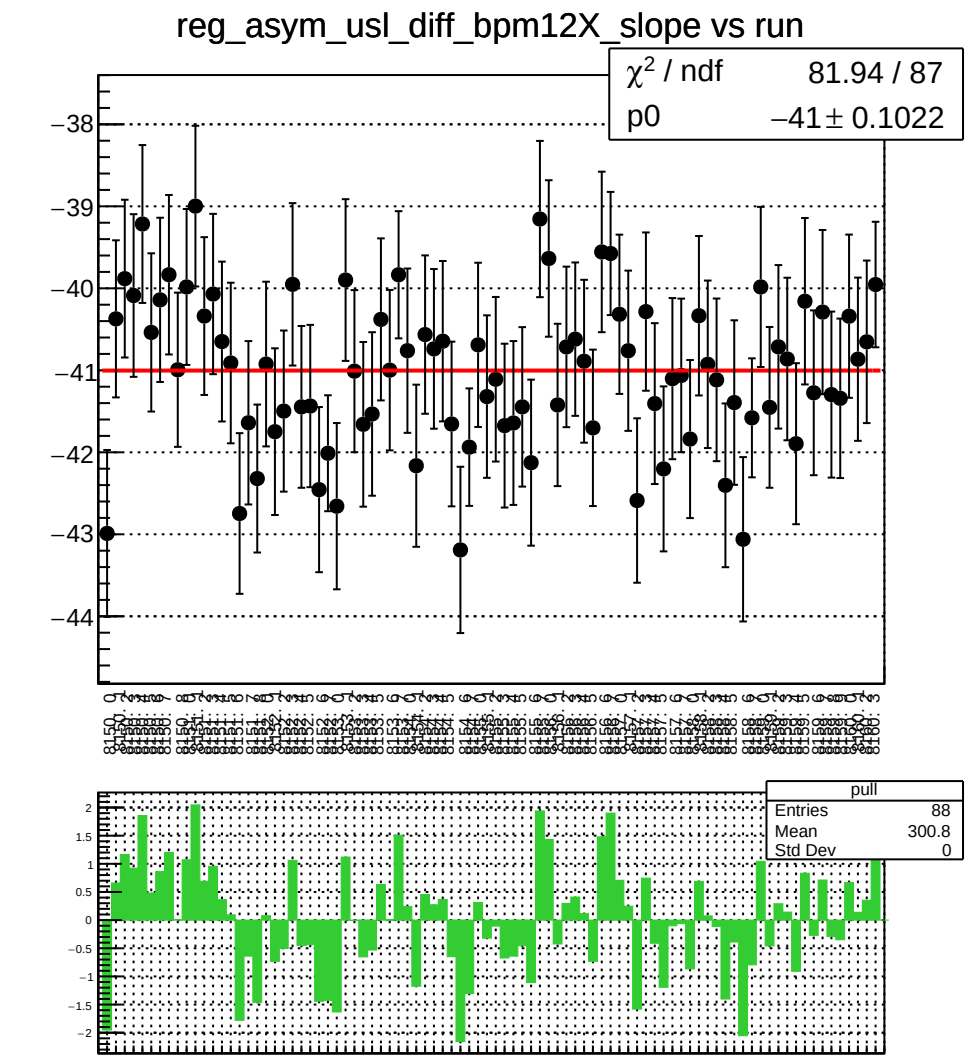

pull1D
Entries 88
Mean 0.004998
Std Dev 0.8583

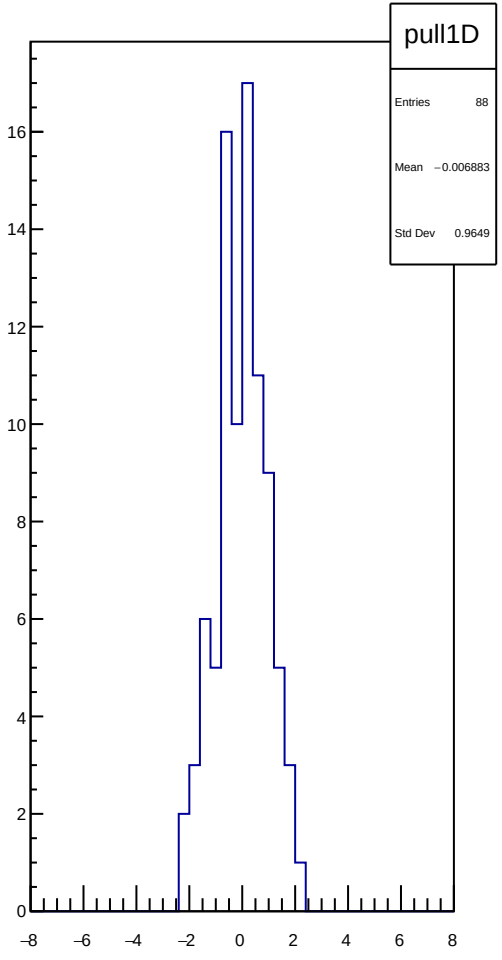

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 63.73 / 87
p0 10.57 ± 2.037
pull
Entries 88
Mean −317.9
Std Dev 0
pull1D
Entries 88
Mean −0.00303
Std Dev 0.851

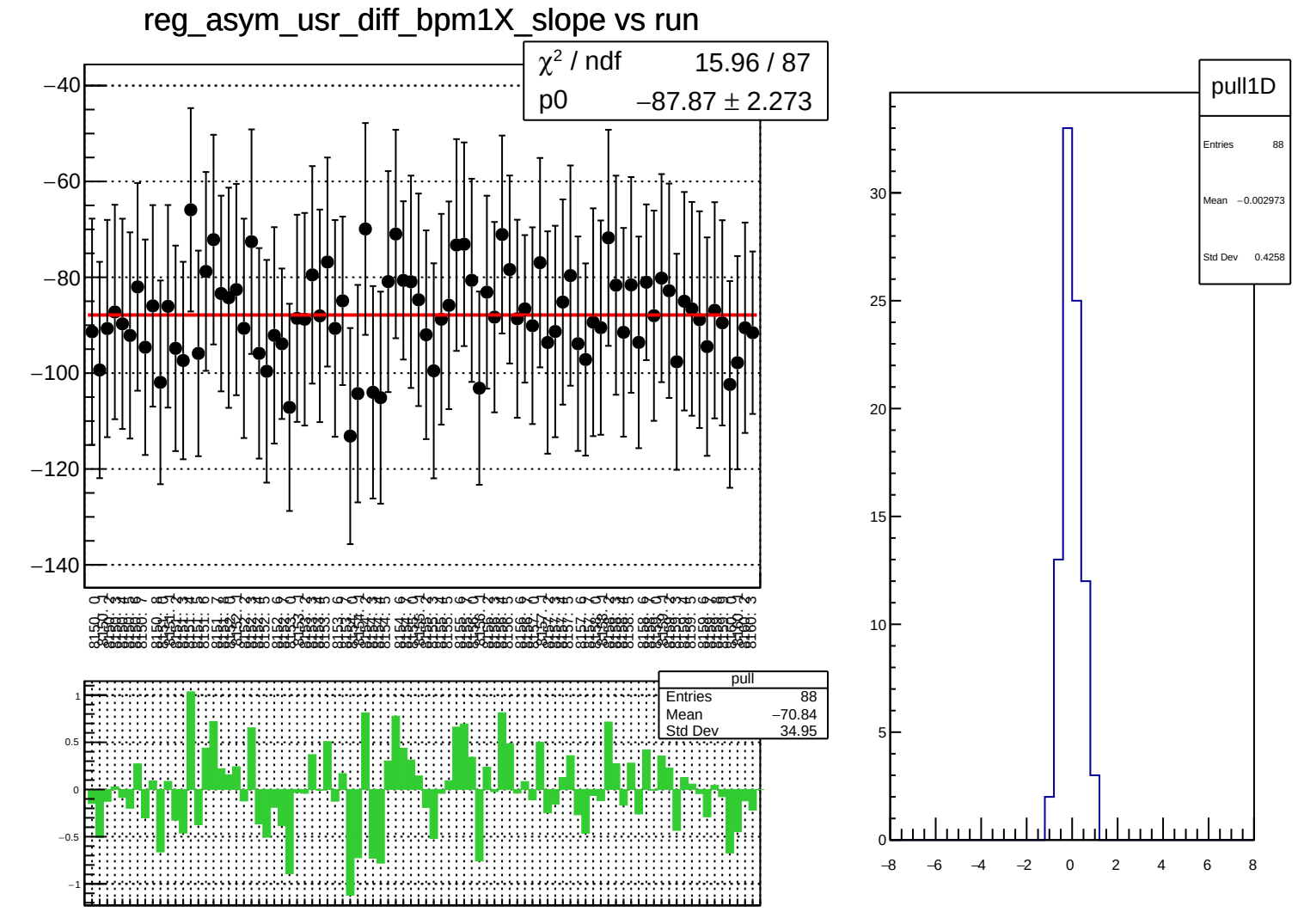

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 61.11 / 87
p0 1.819 ± 1.102
pull
Entries 88
Mean −733.3
Std Dev 0
pull1D
Entries 88
Mean −0.005553
Std Dev 0.8333

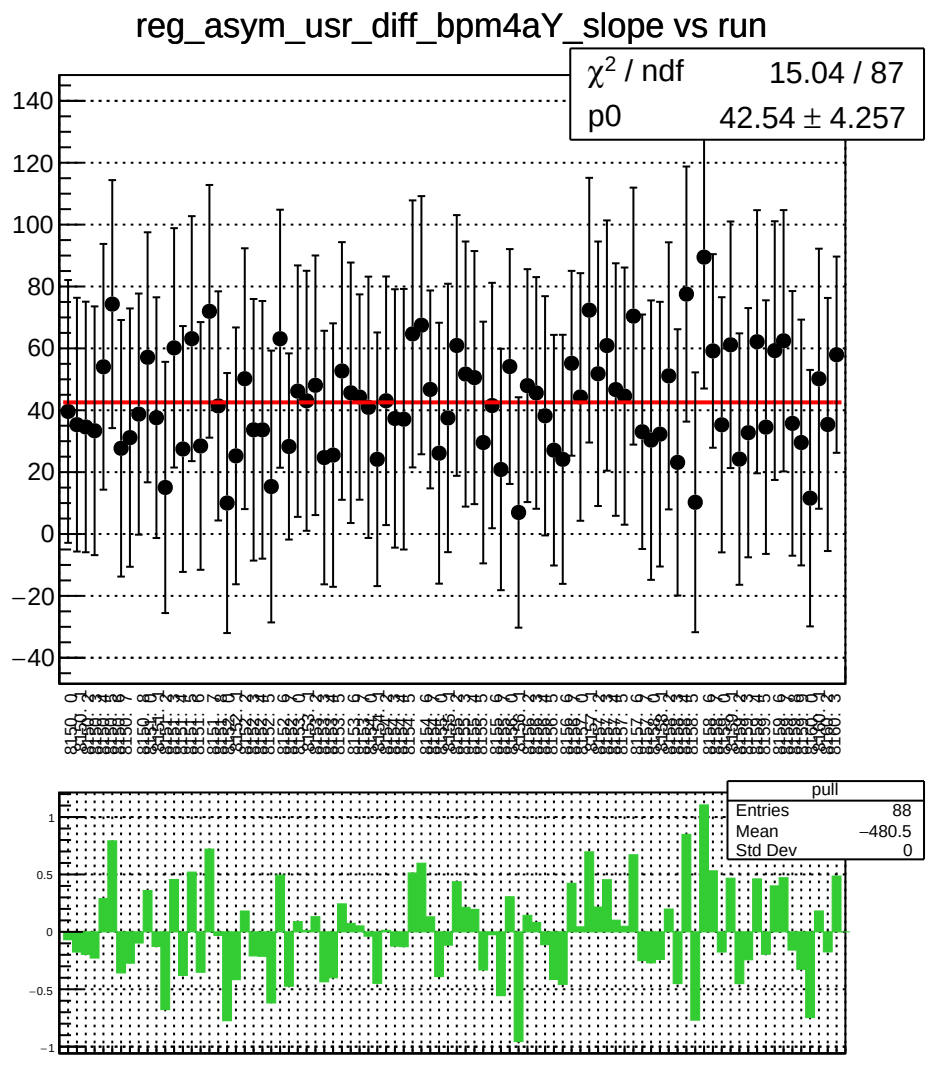

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 67.22 / 87
p0 9.954 ± 2.183
pull
Entries 88
Mean −265.8
Std Dev 0

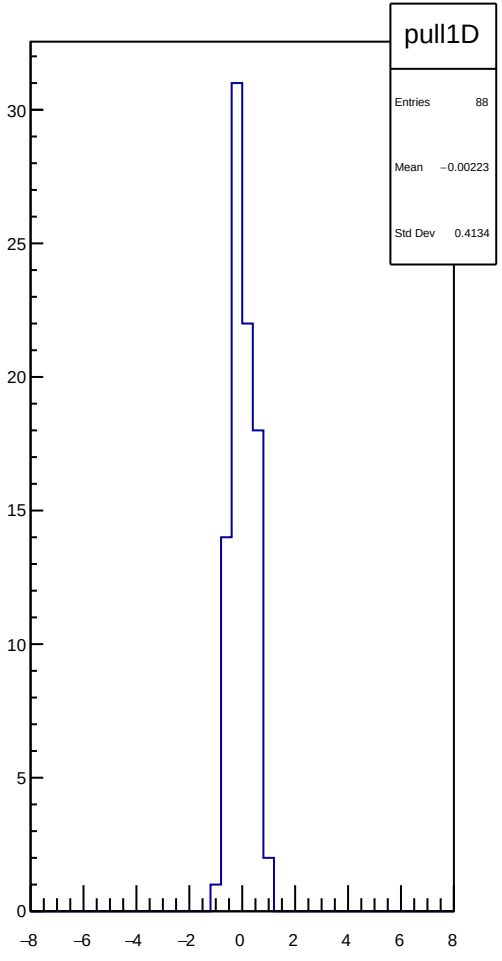

pull1D
Entries 88
Mean 0.002896
Std Dev 0.874

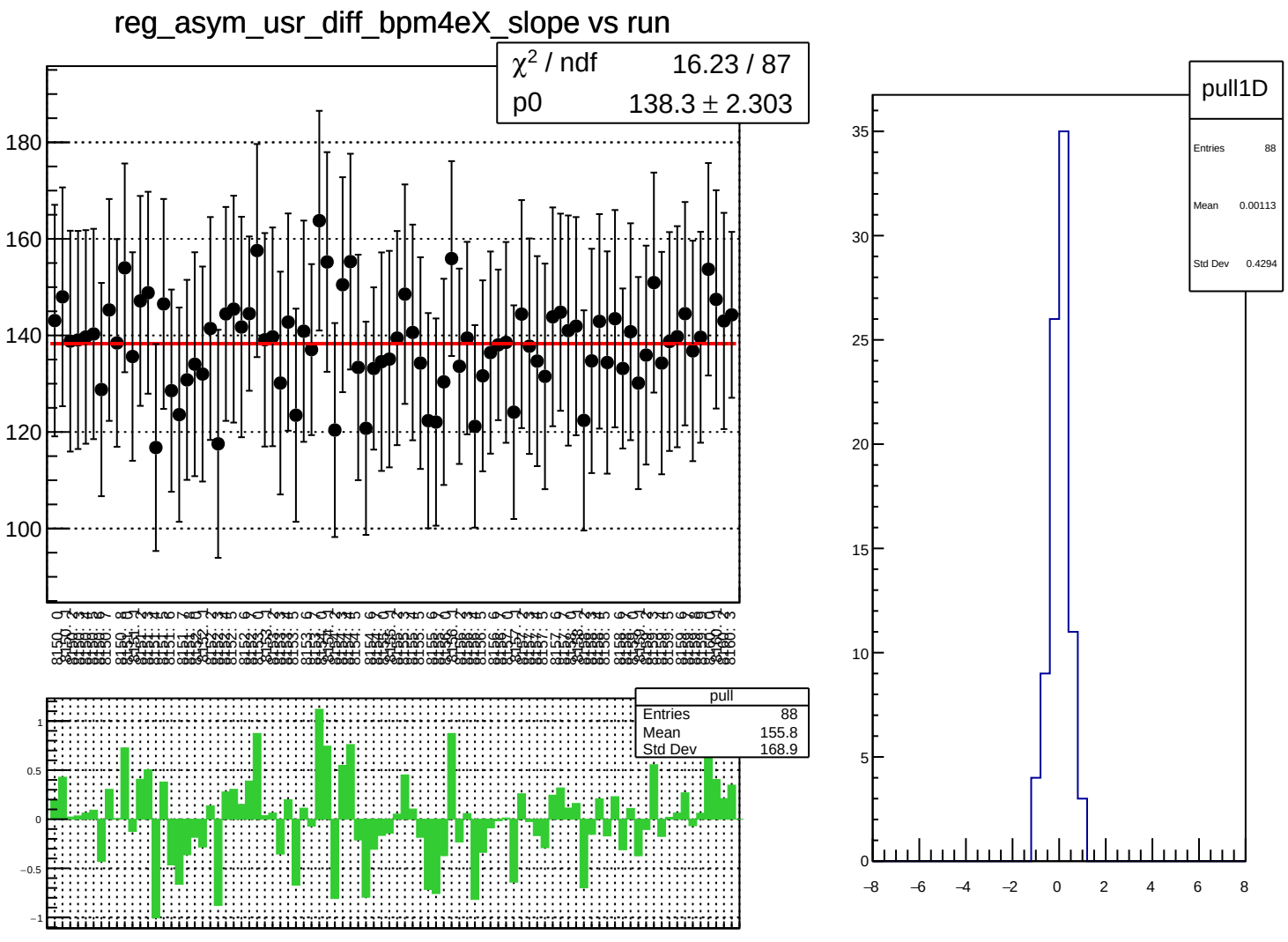

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 81.94 / 87
p0 −41 ± 0.1022
pull
Entries 88
Mean 300.8
Std Dev 0

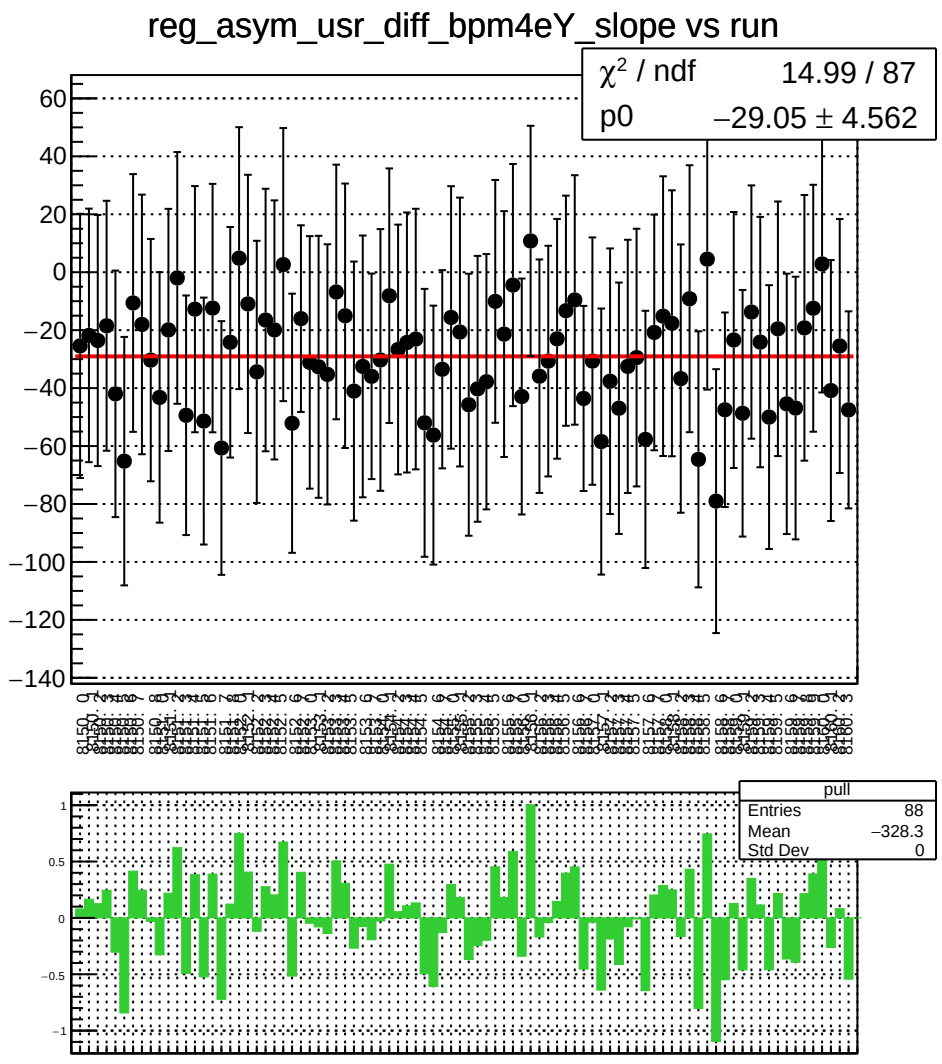

pull1D
Entries 88
Mean −0.006883
Std Dev 0.9649

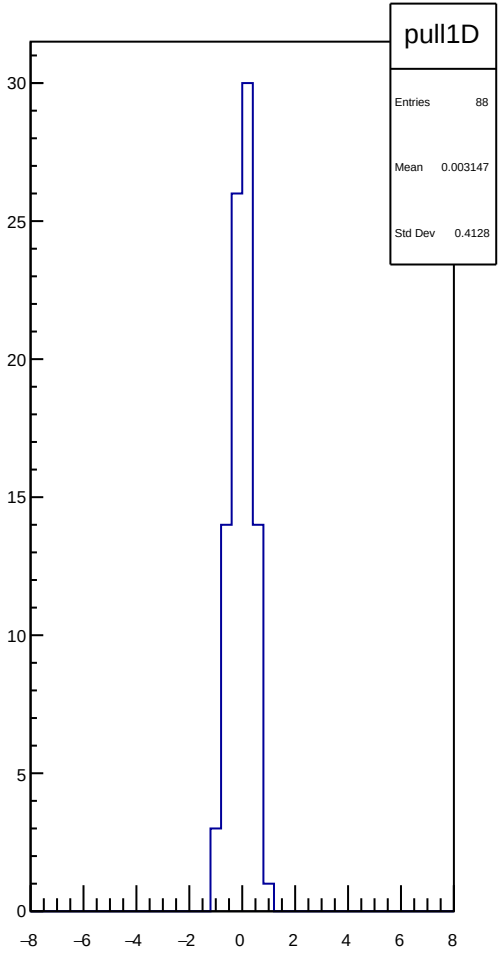

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 15.96 / 87
p0 −87.87 ± 2.273
−40
−60
−80
−100
−120
−140
pull
Entries 88
Mean −70.84
Std Dev 34.95
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.002973
Std Dev 0.4258
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

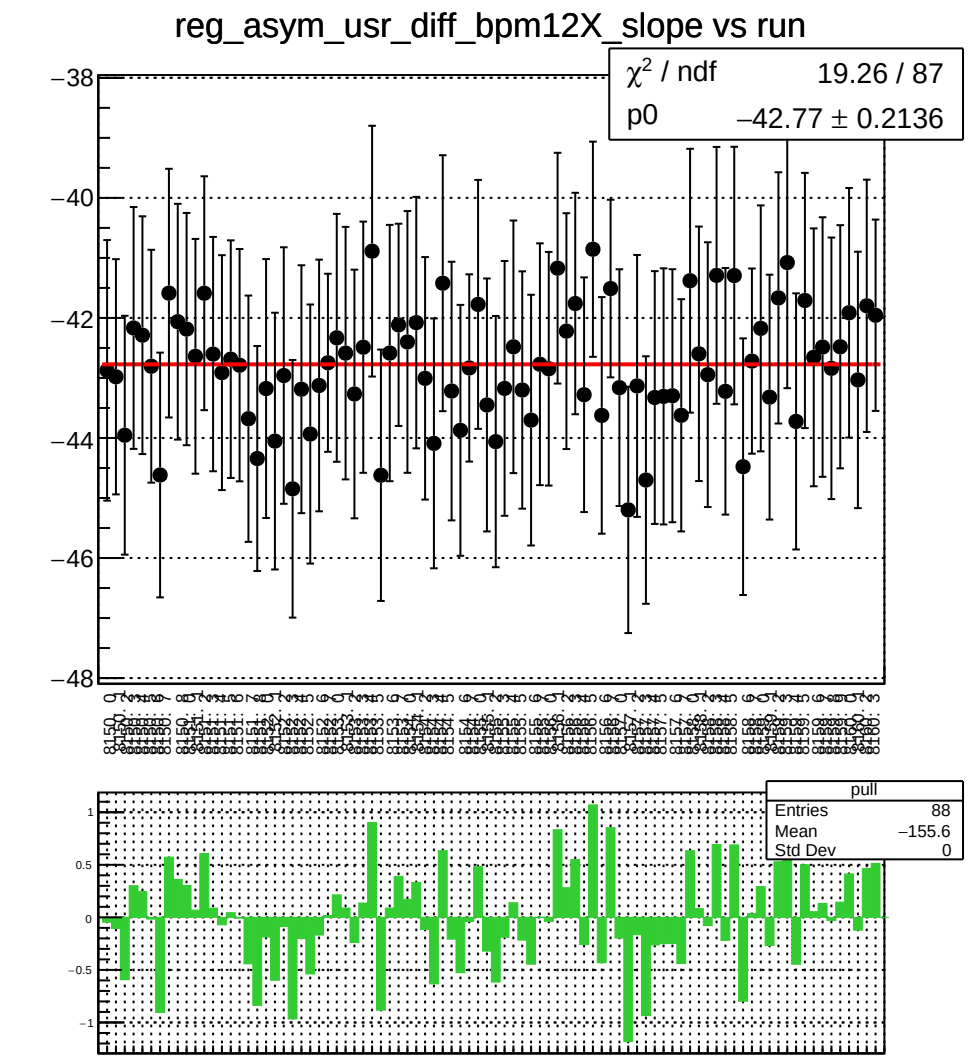

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 15.04 / 87
p0 42.54 ± 4.257
pull
Entries 88
Mean −480.5
Std Dev 0

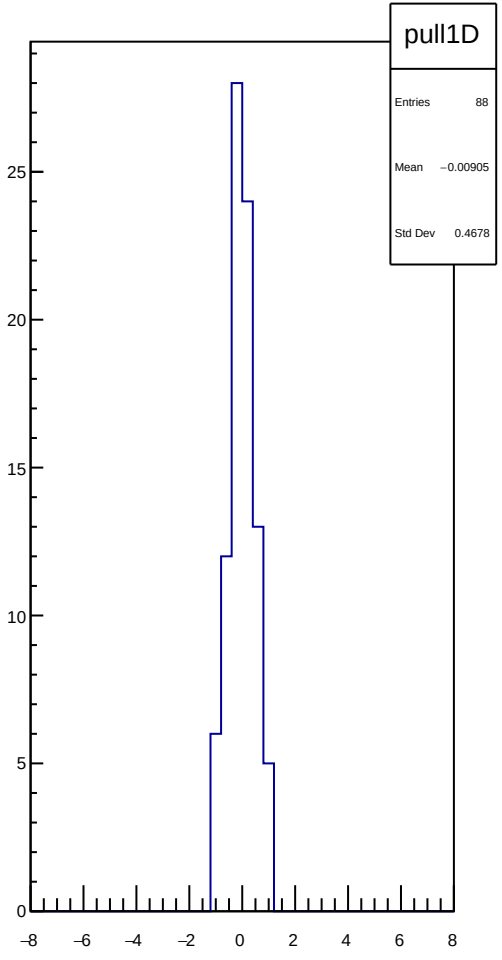

pull1D
Entries 88
Mean −0.00223
Std Dev 0.4134

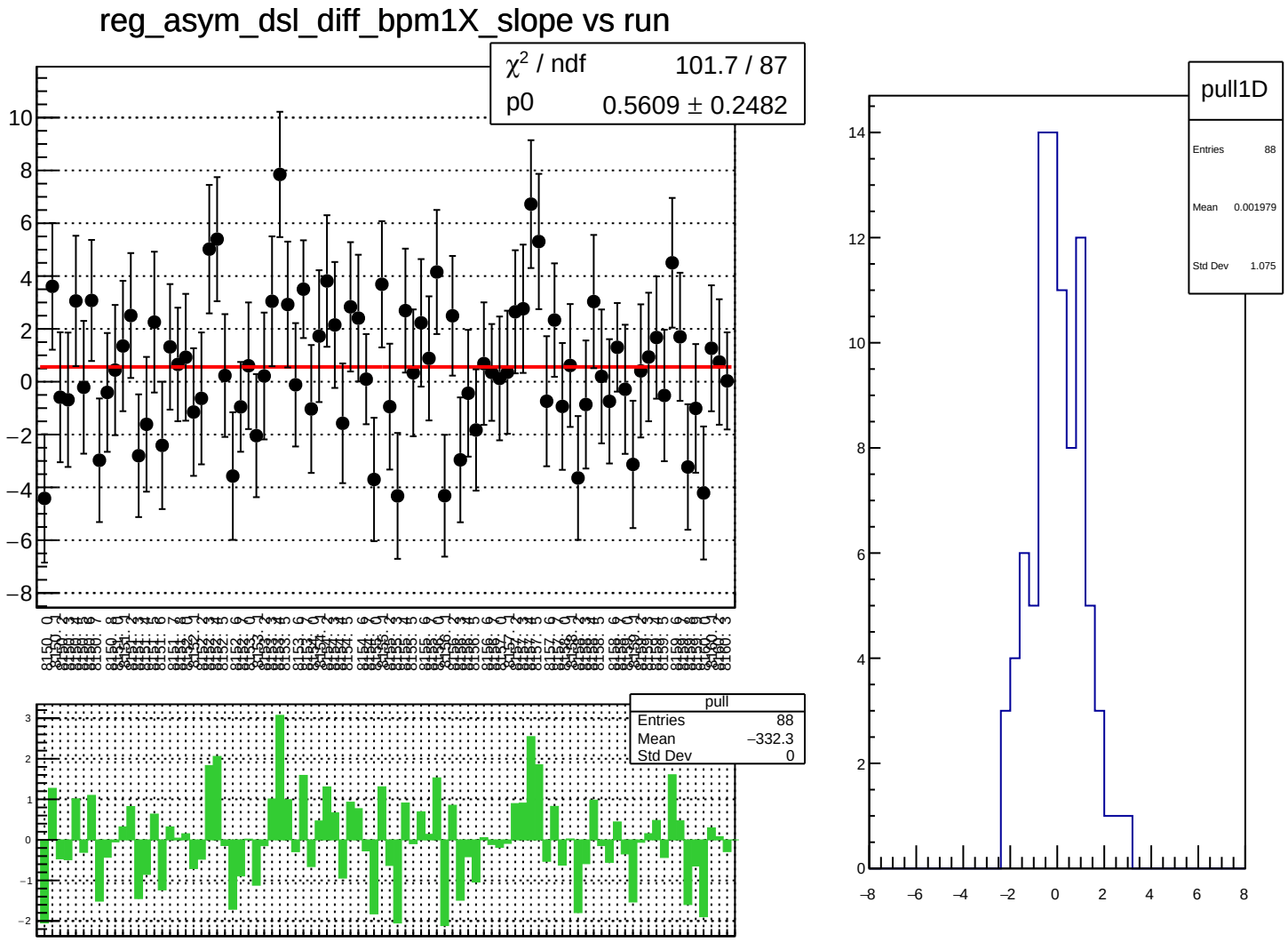

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 16.23 / 87
p0 138.3 ± 2.303
180
160
140
120
100
pull
Entries 88
Mean 155.8
Std Dev 168.9
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.00113
Std Dev 0.4294
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

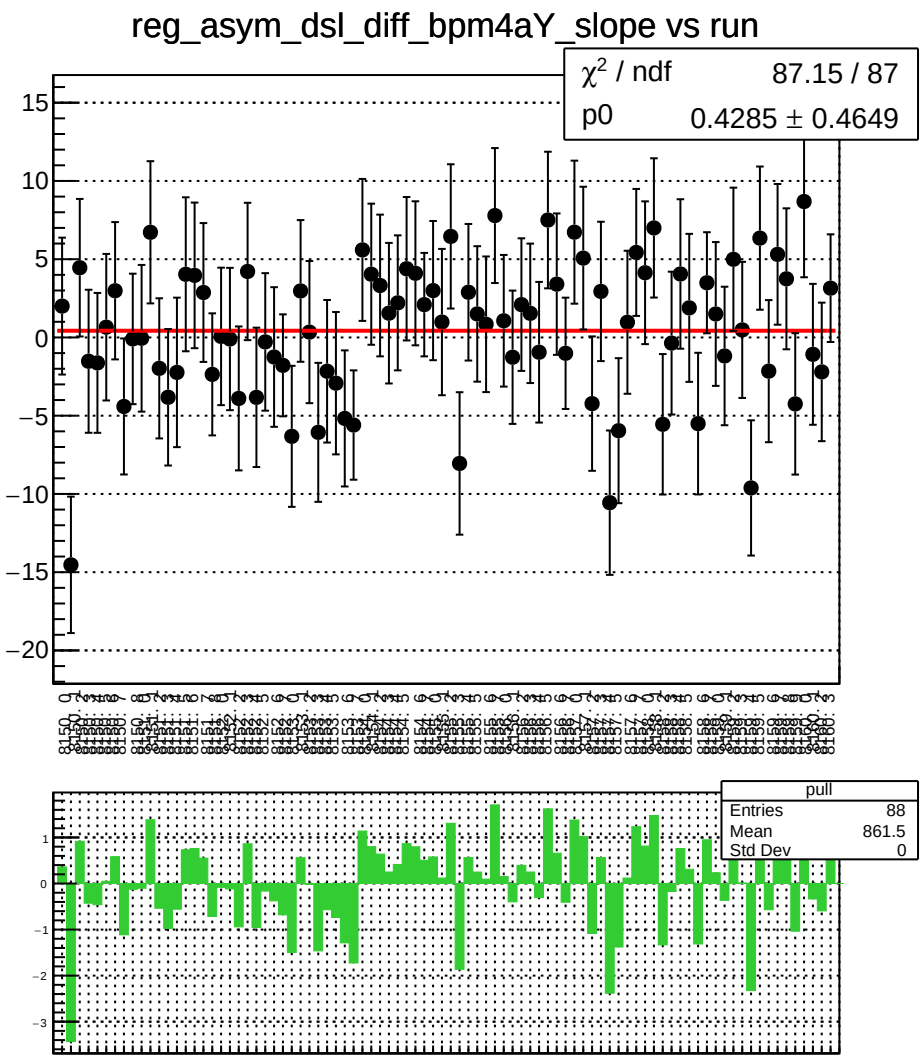

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 14.99 / 87
p0 −29.05 ± 4.562
pull
Entries 88
Mean −328.3
Std Dev 0

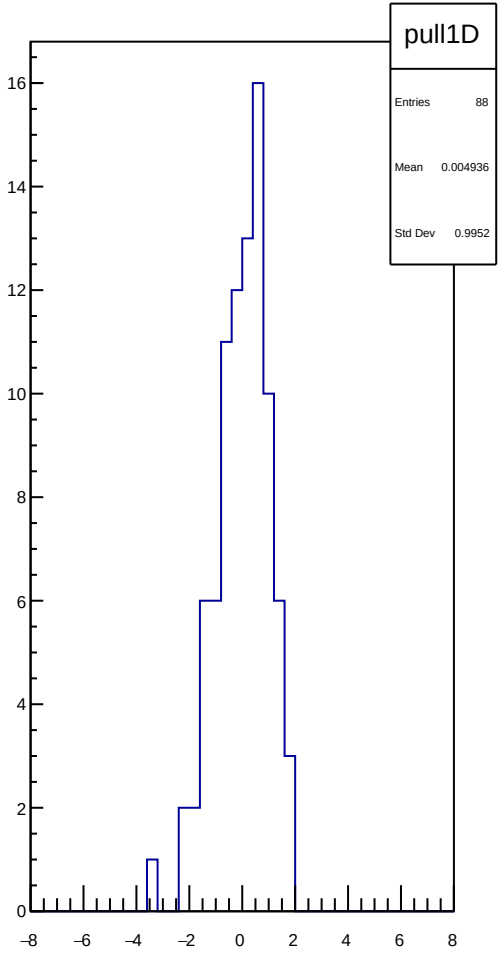

pull1D
Entries 88
Mean 0.003147
Std Dev 0.4128

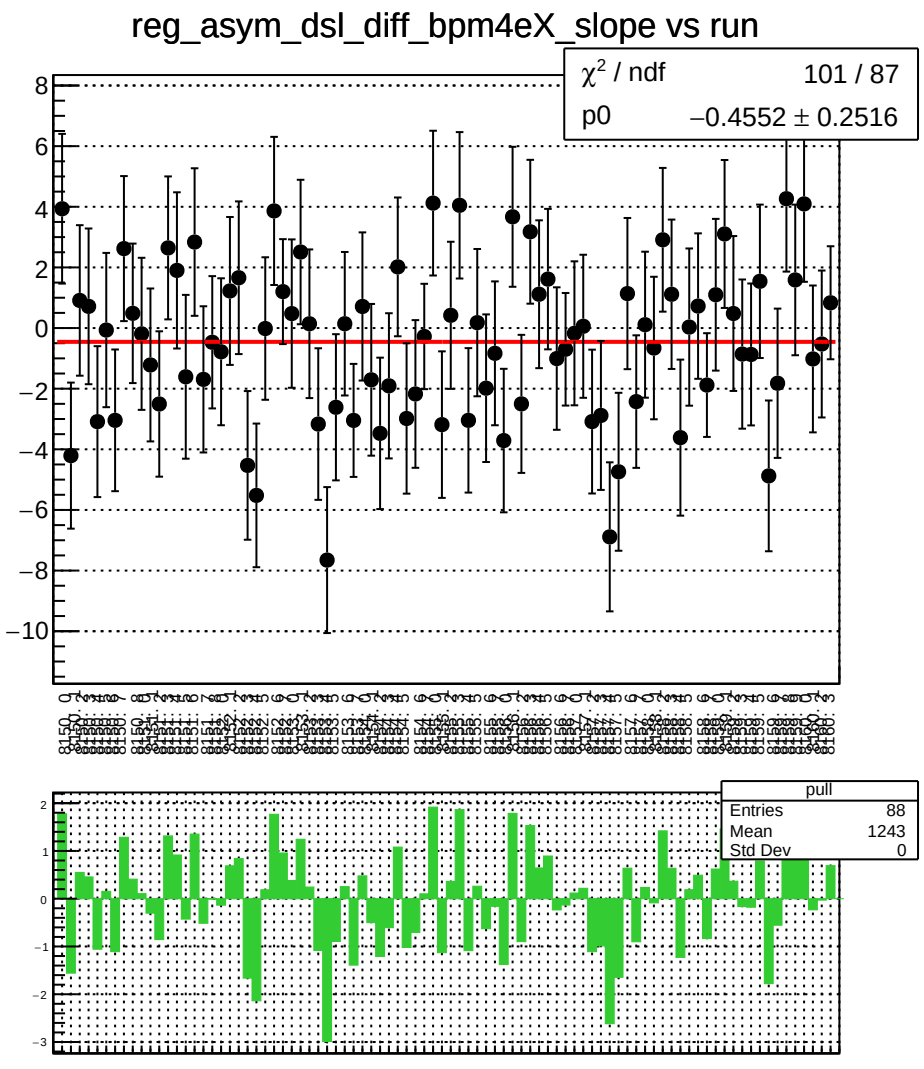

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 19.26 / 87
p0 −42.77 ± 0.2136
pull
Entries 88
Mean −155.6
Std Dev 0

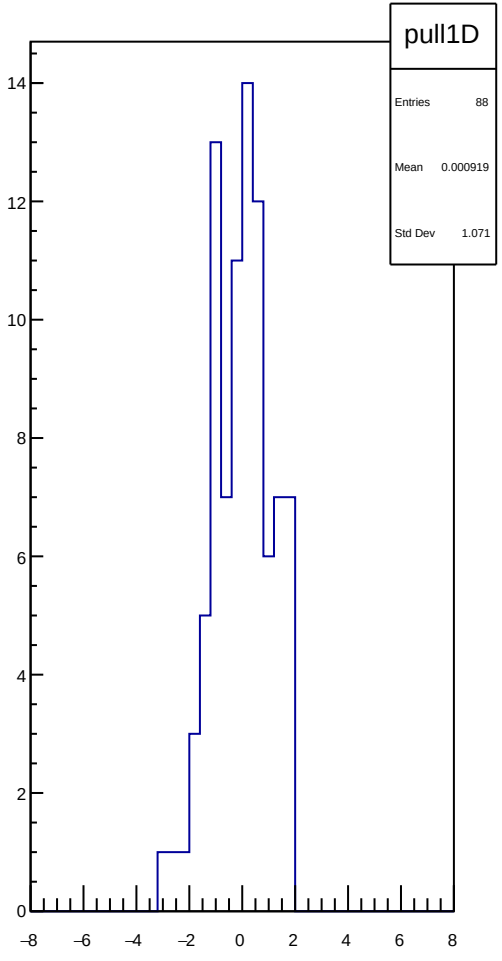

pull1D
Entries 88
Mean −0.00905
Std Dev 0.4678

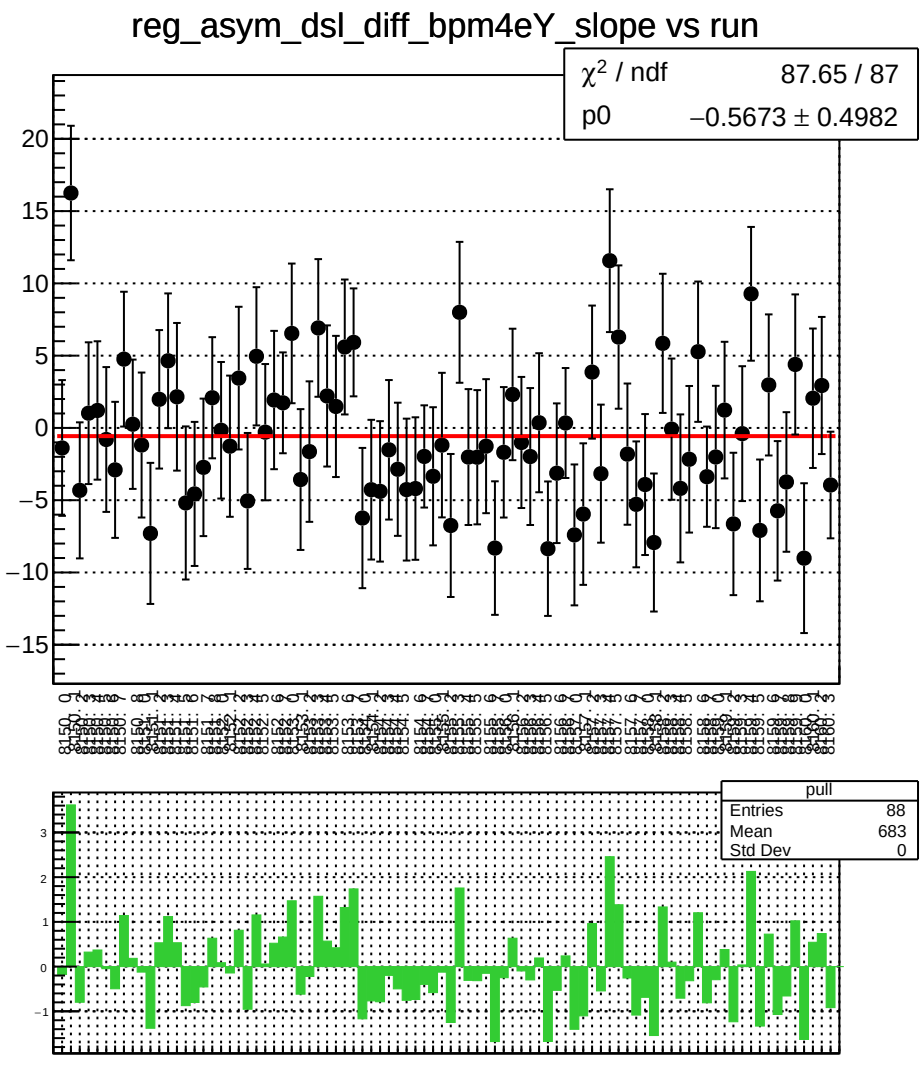

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 101.7 / 87
p0 0.5609 ± 0.2482
pull
Entries 88
Mean −332.3
Std Dev 0
pull1D
Entries 88
Mean 0.001979
Std Dev 1.075

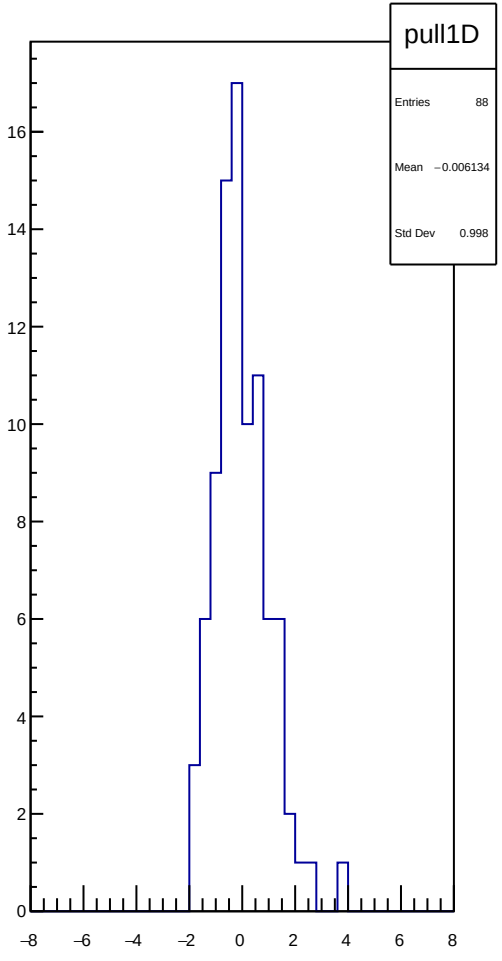

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 87.15 / 87
p0 0.4285 ± 0.4649
pull
Entries 88
Mean 861.5
Std Dev 0

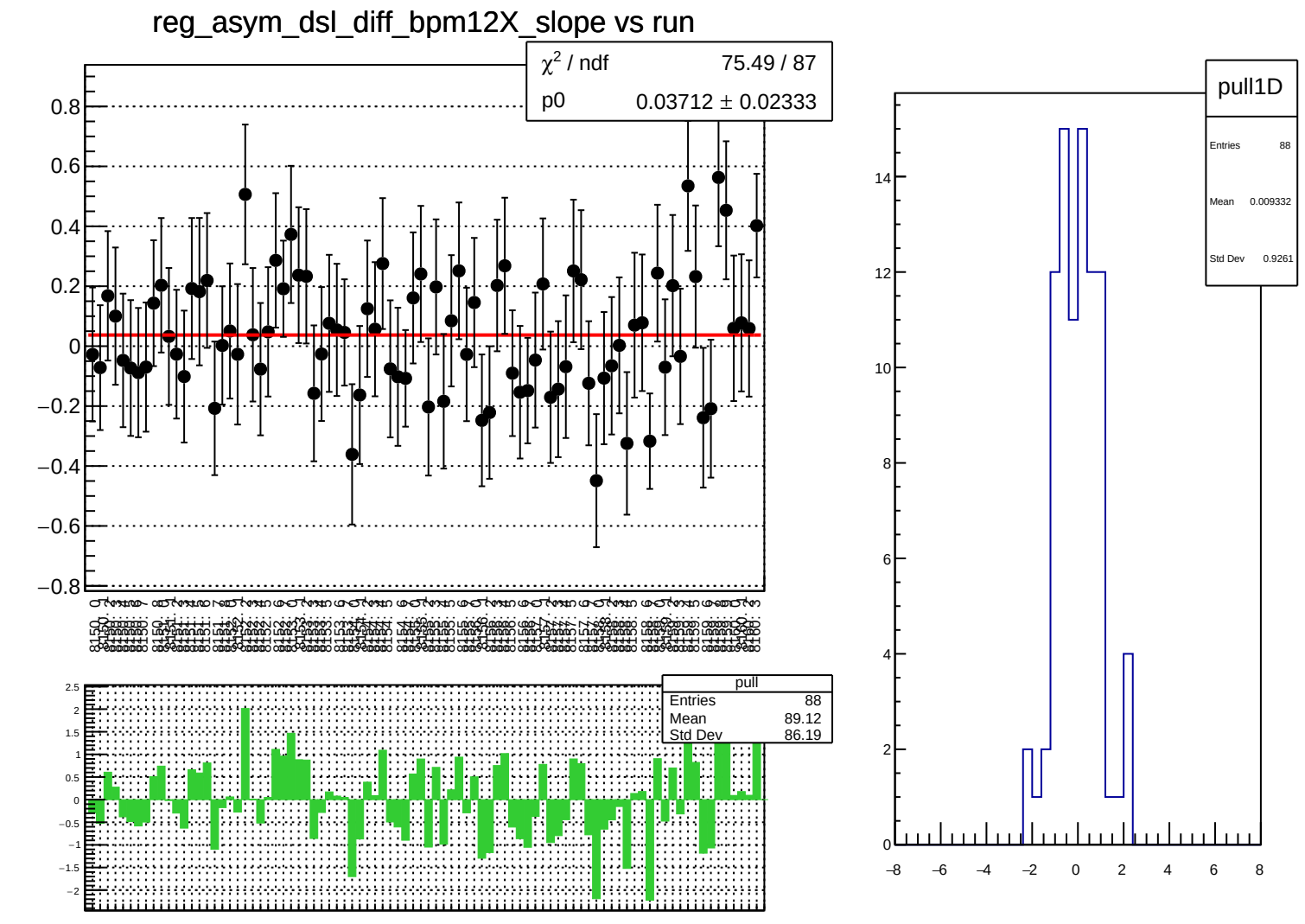

pull1D
Entries 88
Mean 0.004936
Std Dev 0.9952

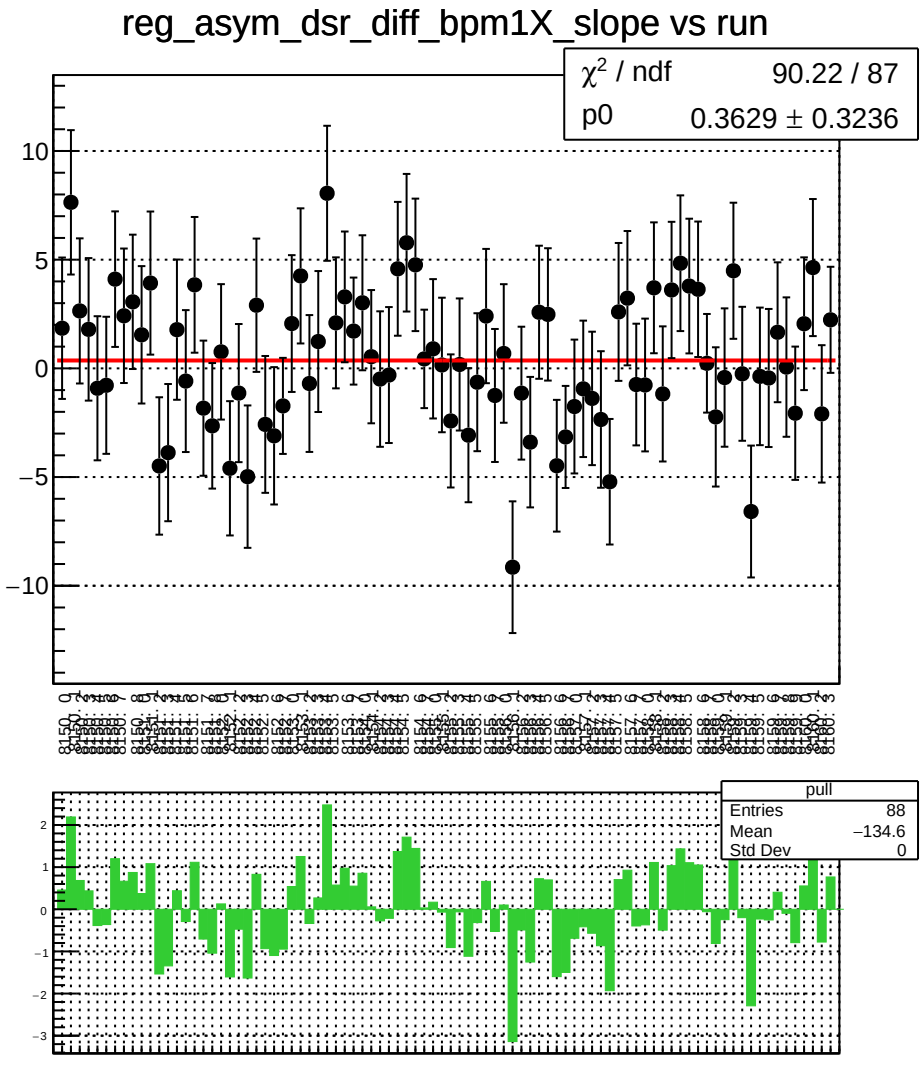

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 101 / 87
p0 −0.4552 ± 0.2516
pull
Entries 88
Mean 1243
Std Dev 0

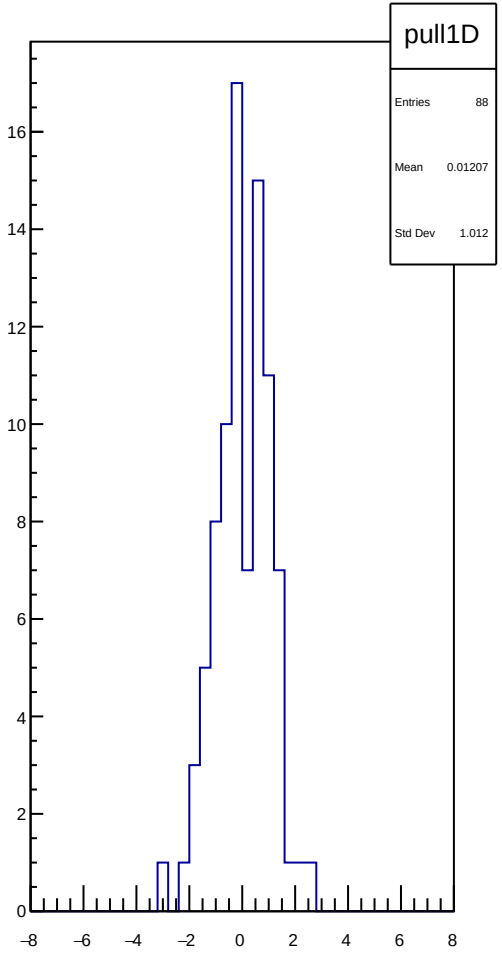

pull1D
Entries 88
Mean 0.000919
Std Dev 1.071

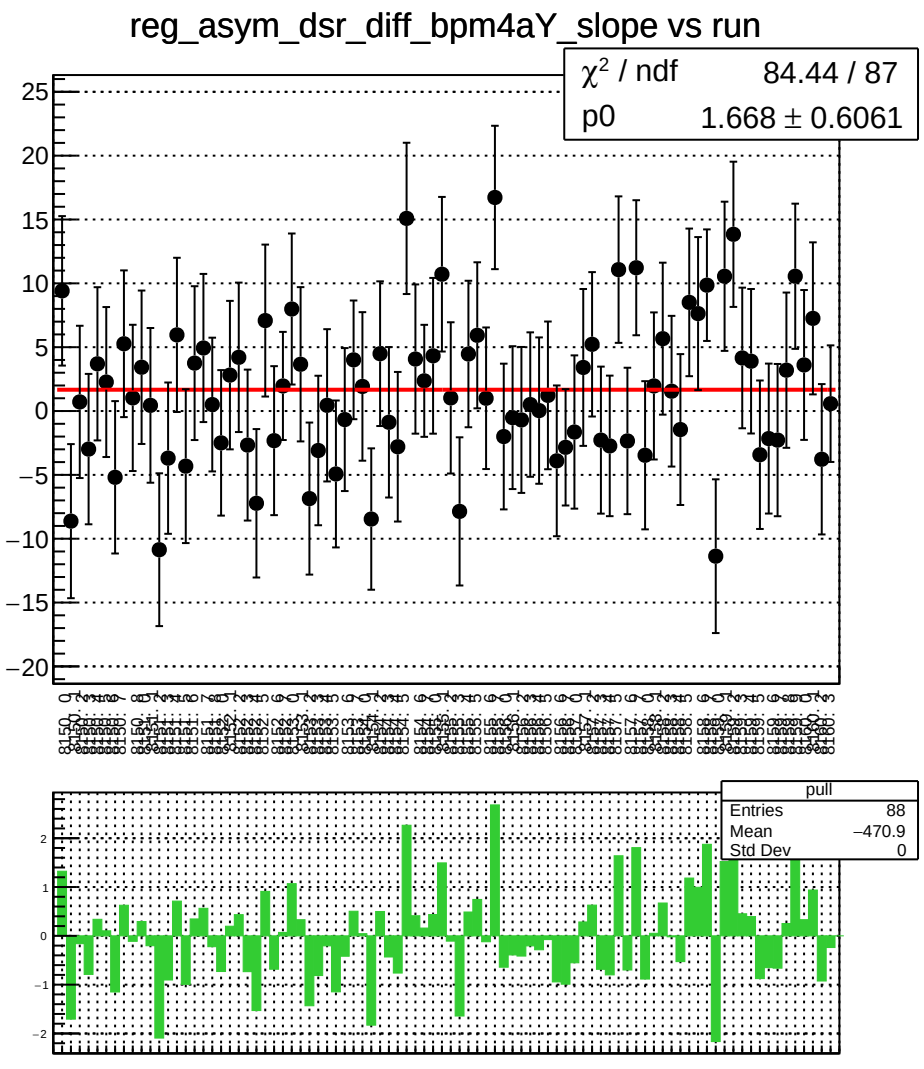

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 87.65 / 87
p0 −0.5673 ± 0.4982
pull
Entries 88
Mean 683
Std Dev 0

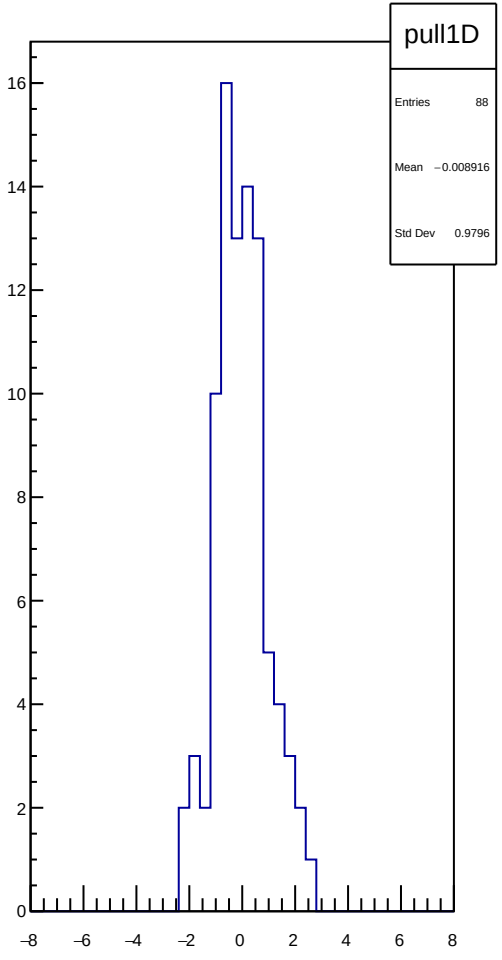

pull1D
Entries 88
Mean −0.006134
Std Dev 0.998

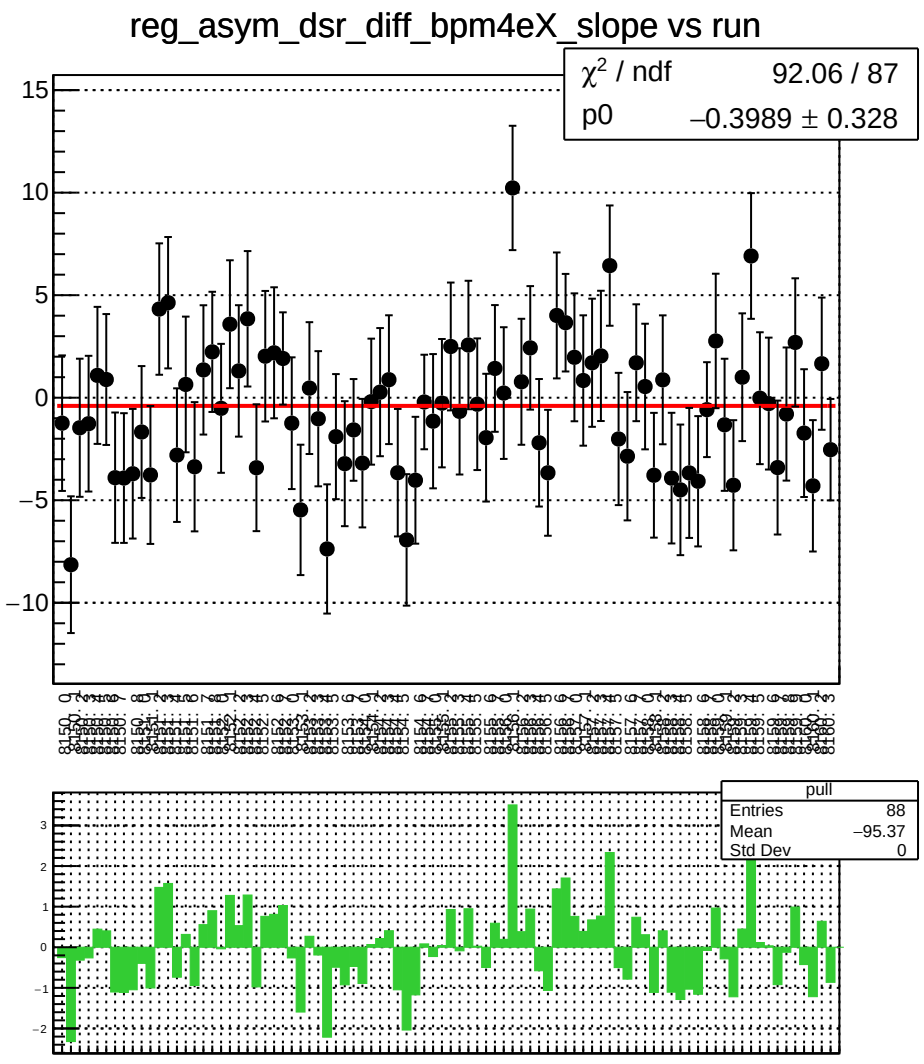

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 75.49 / 87
p0 0.03712 ± 0.02333
pull
Entries 88
Mean 89.12
Std Dev 86.19
pull1D
Entries 88
Mean 0.009332
Std Dev 0.9261

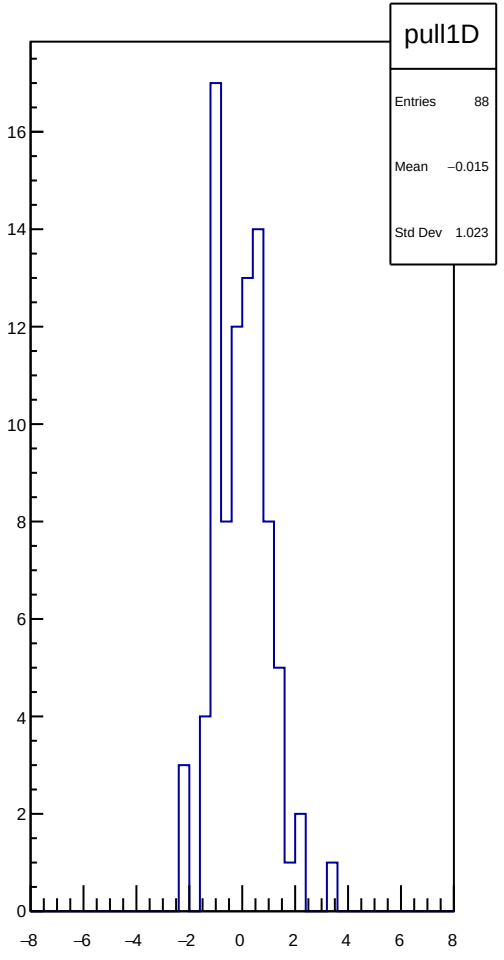

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 90.22 / 87
p0 0.3629 ± 0.3236
pull
Entries 88
Mean −134.6
Std Dev 0

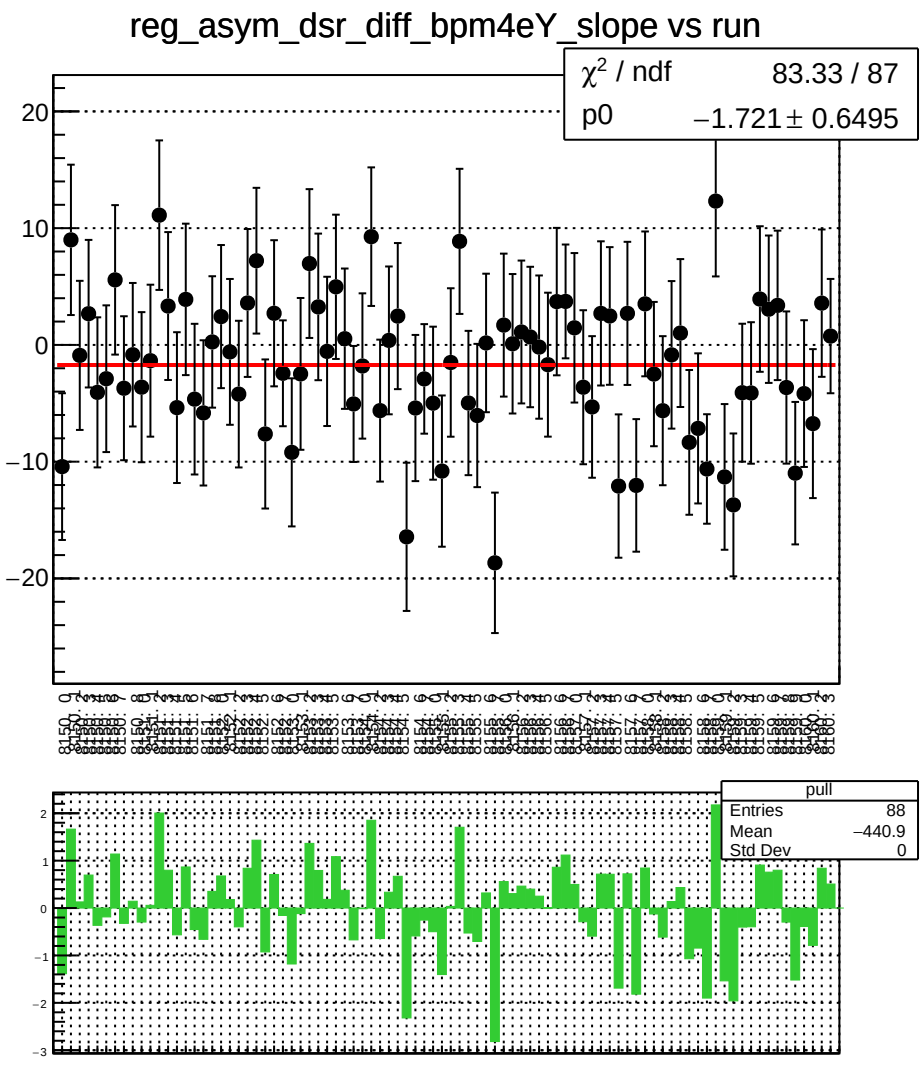

pull1D
Entries 88
Mean 0.01207
Std Dev 1.012

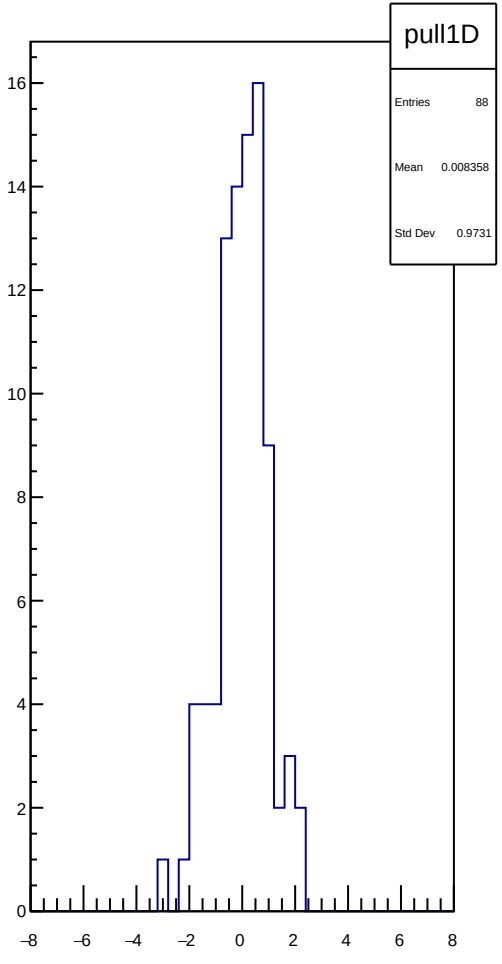

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 84.44 / 87
p0 1.668 ± 0.6061
pull
Entries 88
Mean −470.9
Std Dev 0

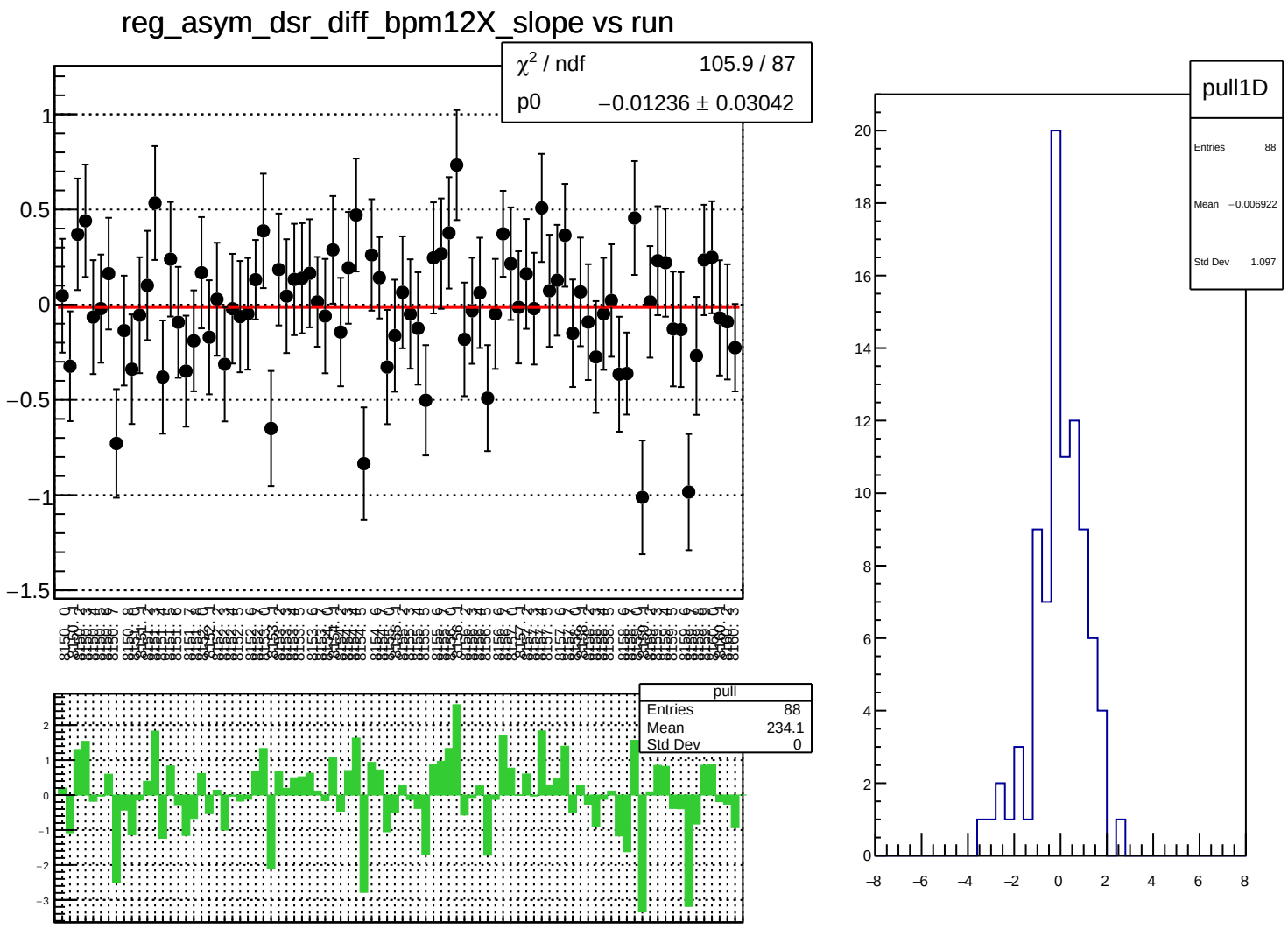

pull1D
Entries 88
Mean −0.008916
Std Dev 0.9796

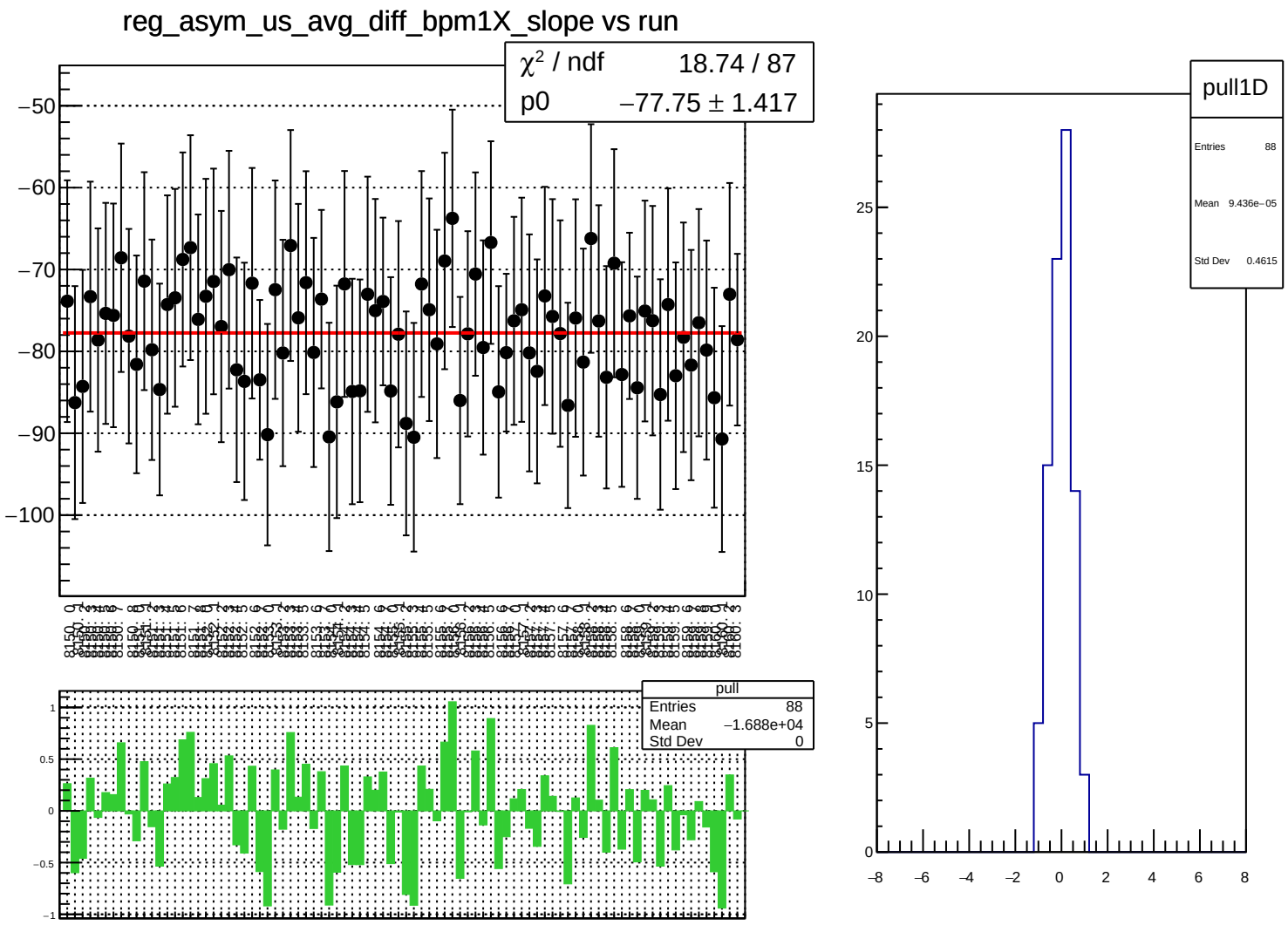

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 92.06 / 87
p0 −0.3989 ± 0.328
pull
Entries 88
Mean −95.37
Std Dev 0

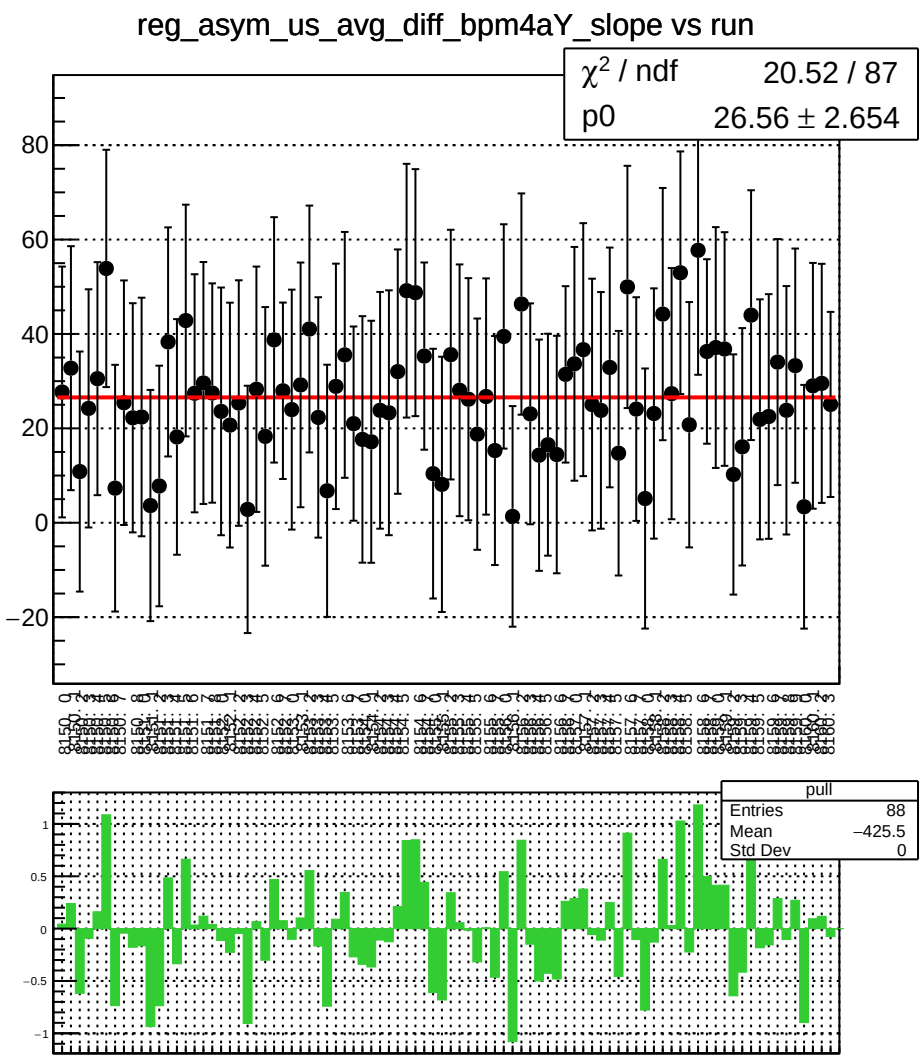

pull1D
Entries 88
Mean −0.015
Std Dev 1.023

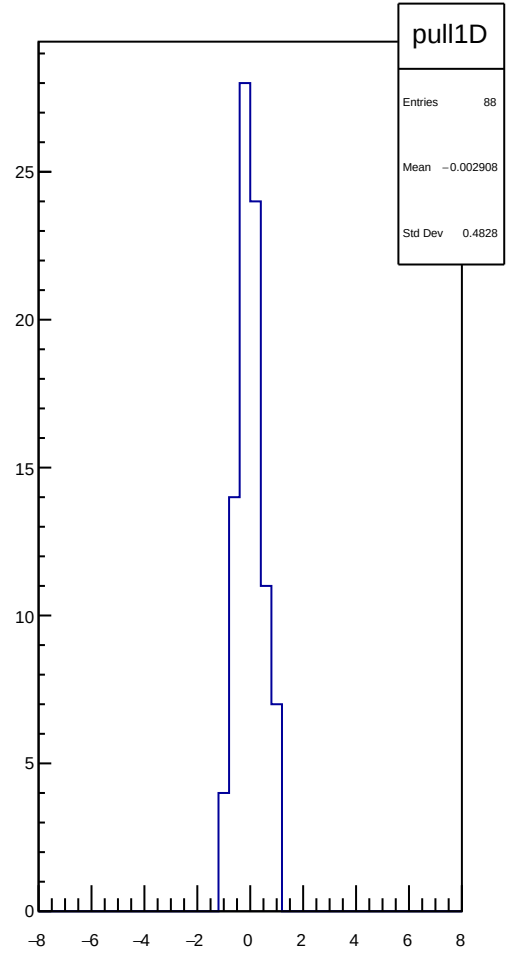

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 83.33 / 87
p0 −1.721 ± 0.6495
pull
Entries 88
Mean −440.9
Std Dev 0

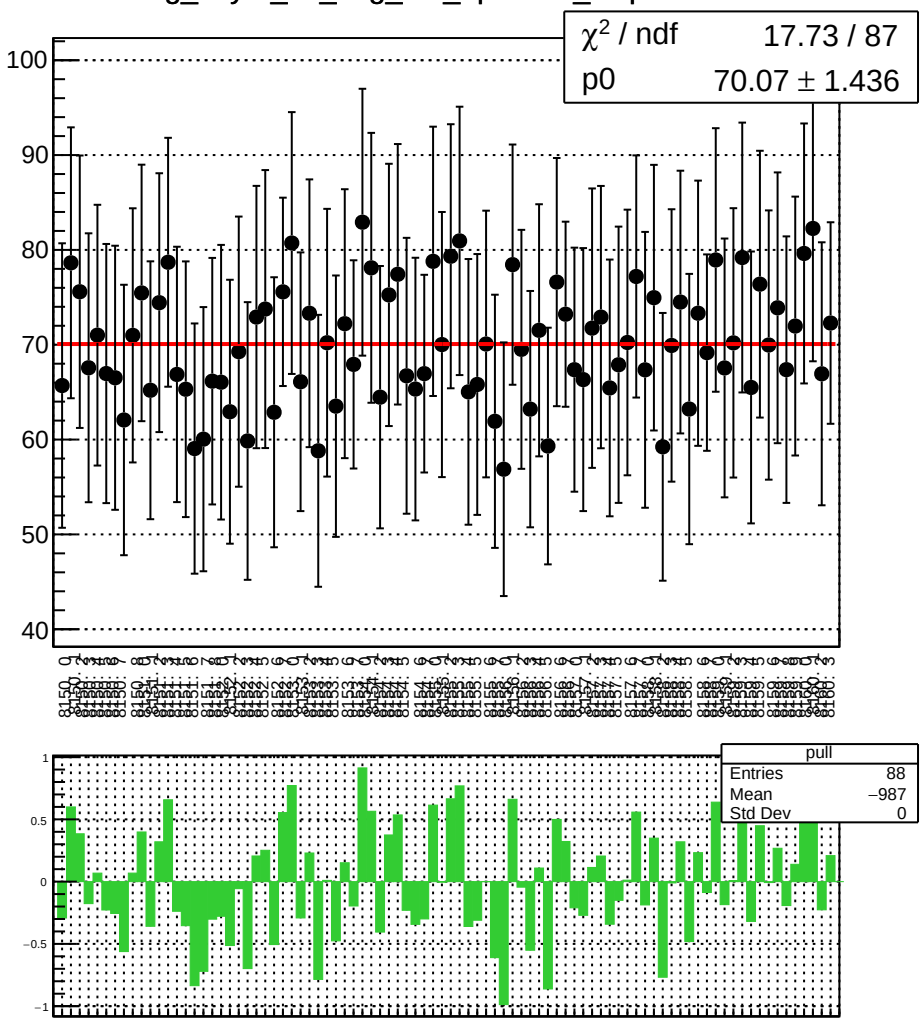

pull1D
Entries 88
Mean 0.008358
Std Dev 0.9731

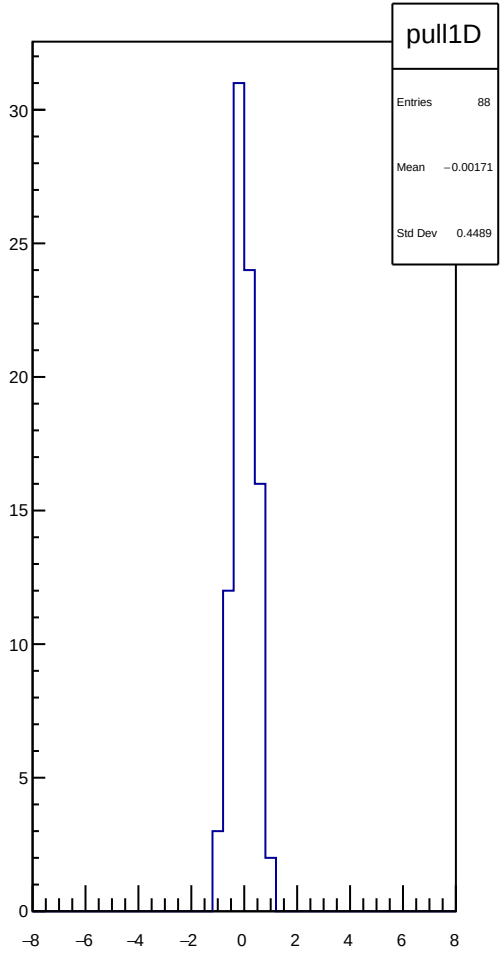

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 105.9 / 87
p0 −0.01236 ± 0.03042
pull
Entries 88
Mean 234.1
Std Dev 0
pull1D
Entries 88
Mean −0.006922
Std Dev 1.097

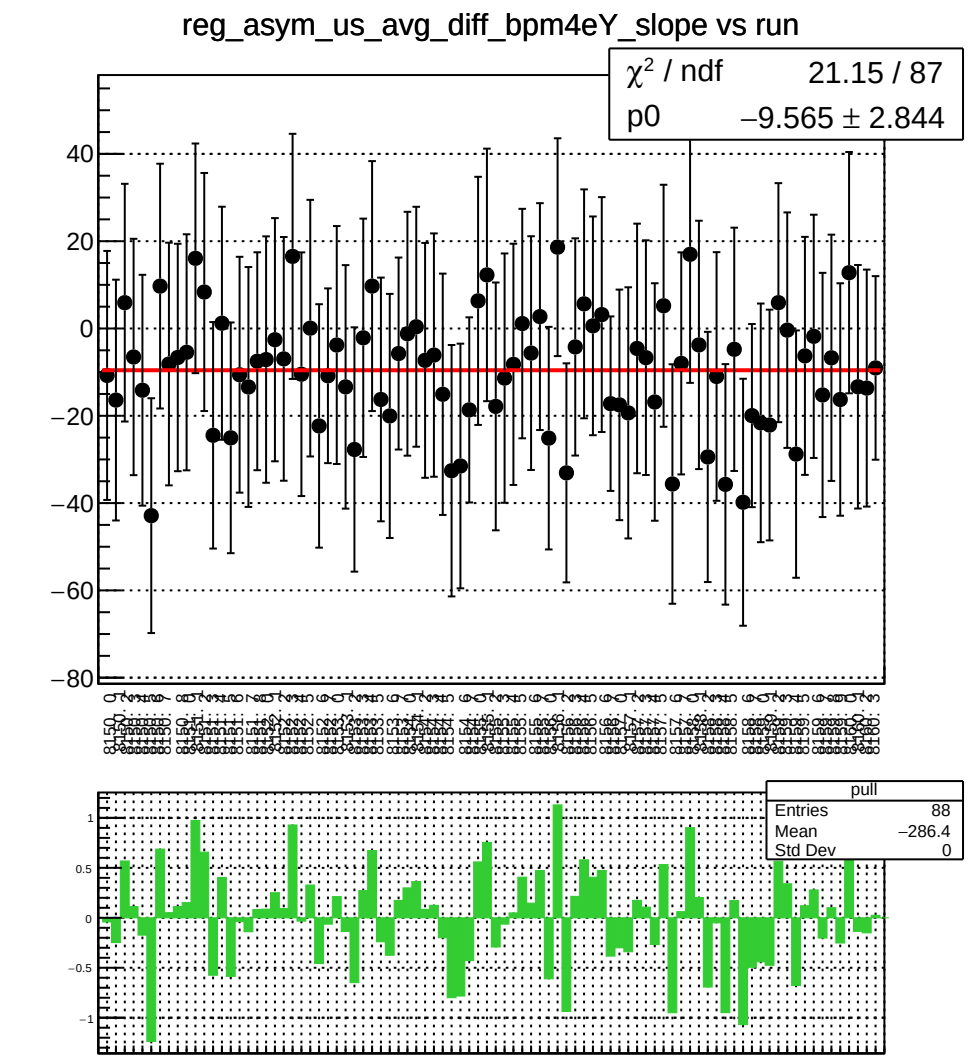

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 18.74 / 87
p0 −77.75 ± 1.417
−50
−60
−70
−80
−90
−100
pull
Entries 88
Mean −1.688e+04
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 9.436e−05
Std Dev 0.4615
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

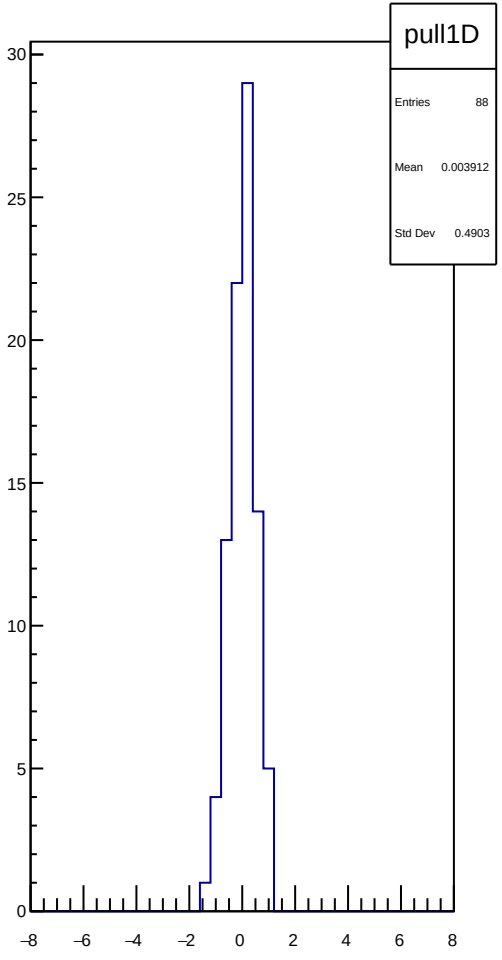

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.52 / 87
p0 26.56 ± 2.654
pull
Entries 88
Mean −425.5
Std Dev 0

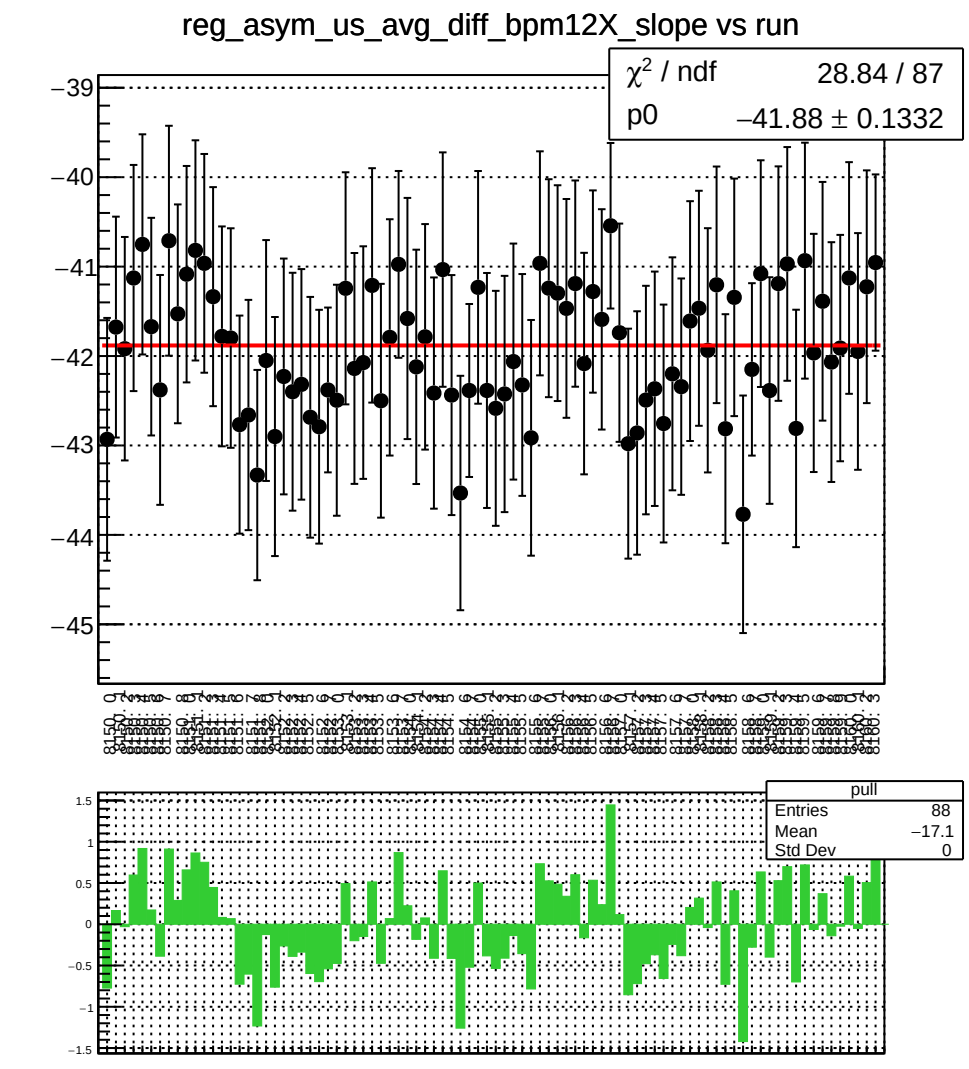

pull1D
Entries 88
Mean −0.002908
Std Dev 0.4828

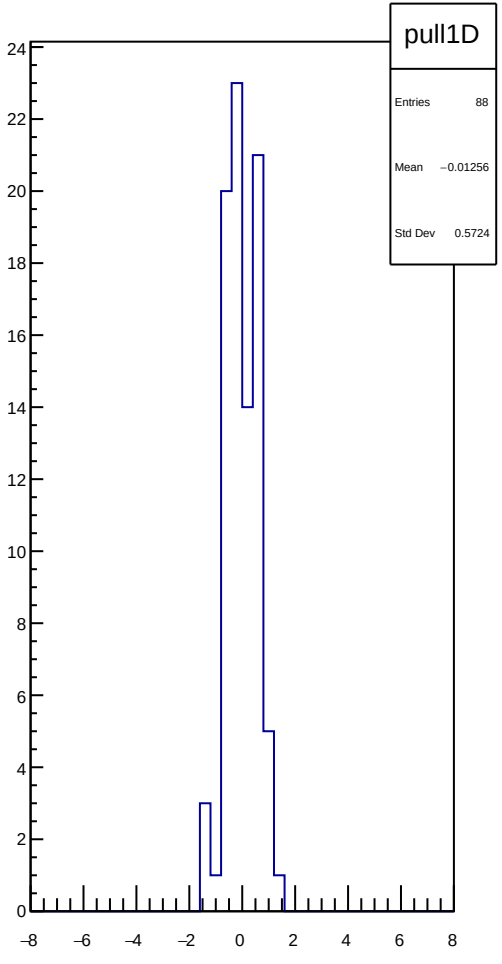

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.73 / 87
p0 70.07 ± 1.436
pull
Entries 88
Mean −987
Std Dev 0

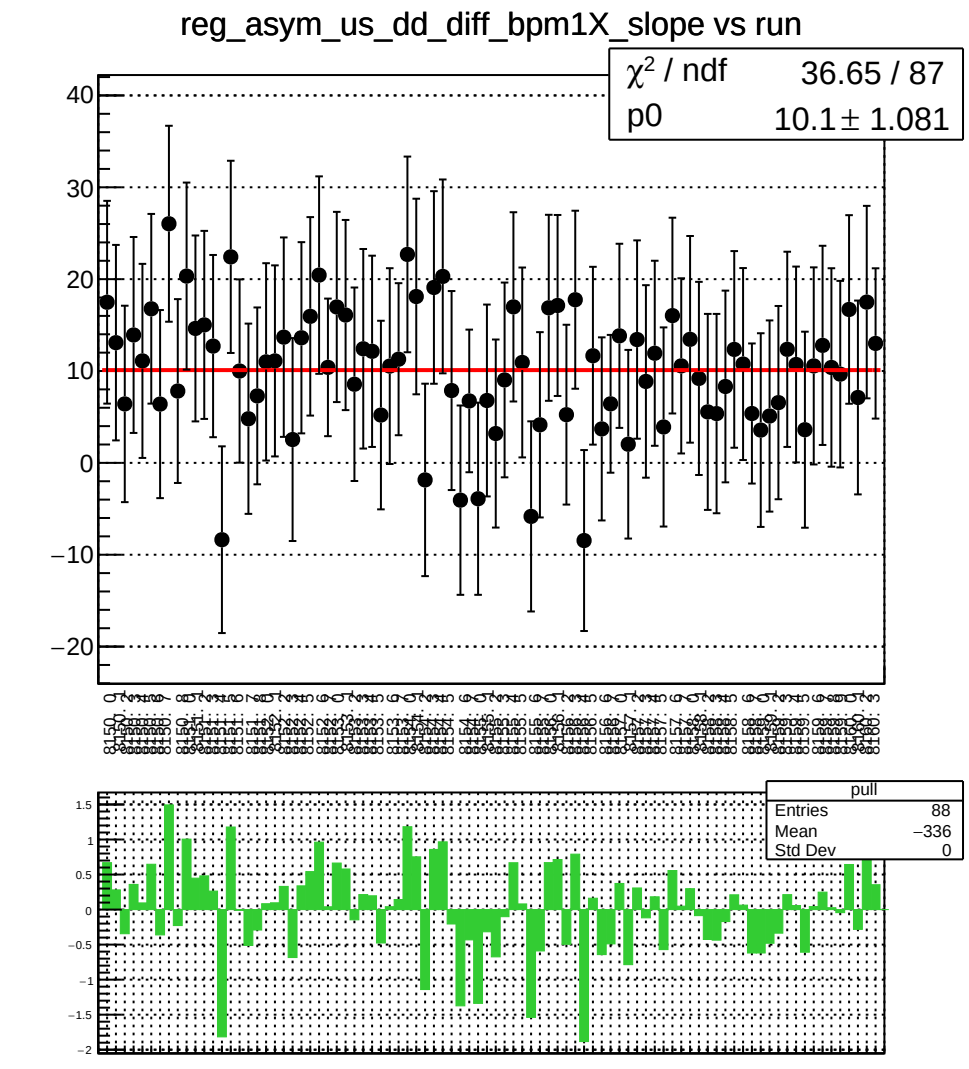

pull1D
Entries 88
Mean −0.00171
Std Dev 0.4489

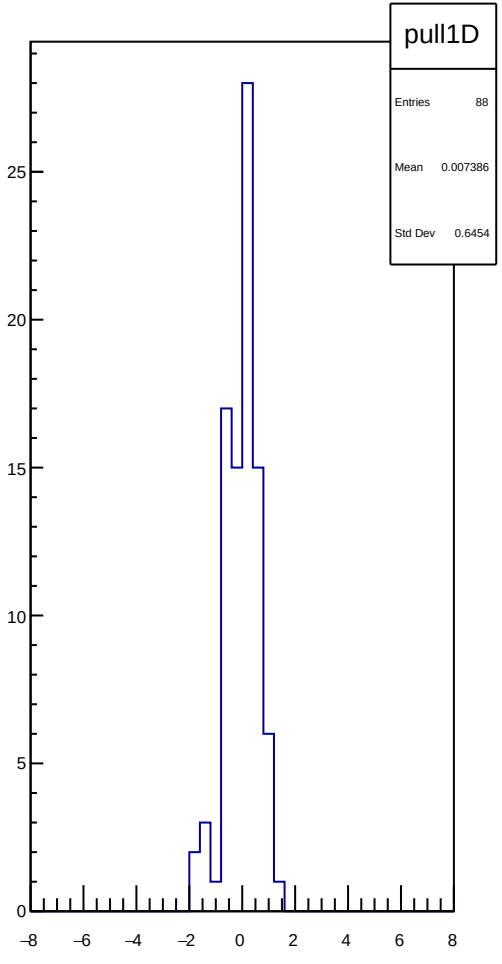

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.15 / 87
p0 −9.565 ± 2.844
pull
Entries 88
Mean −286.4
Std Dev 0

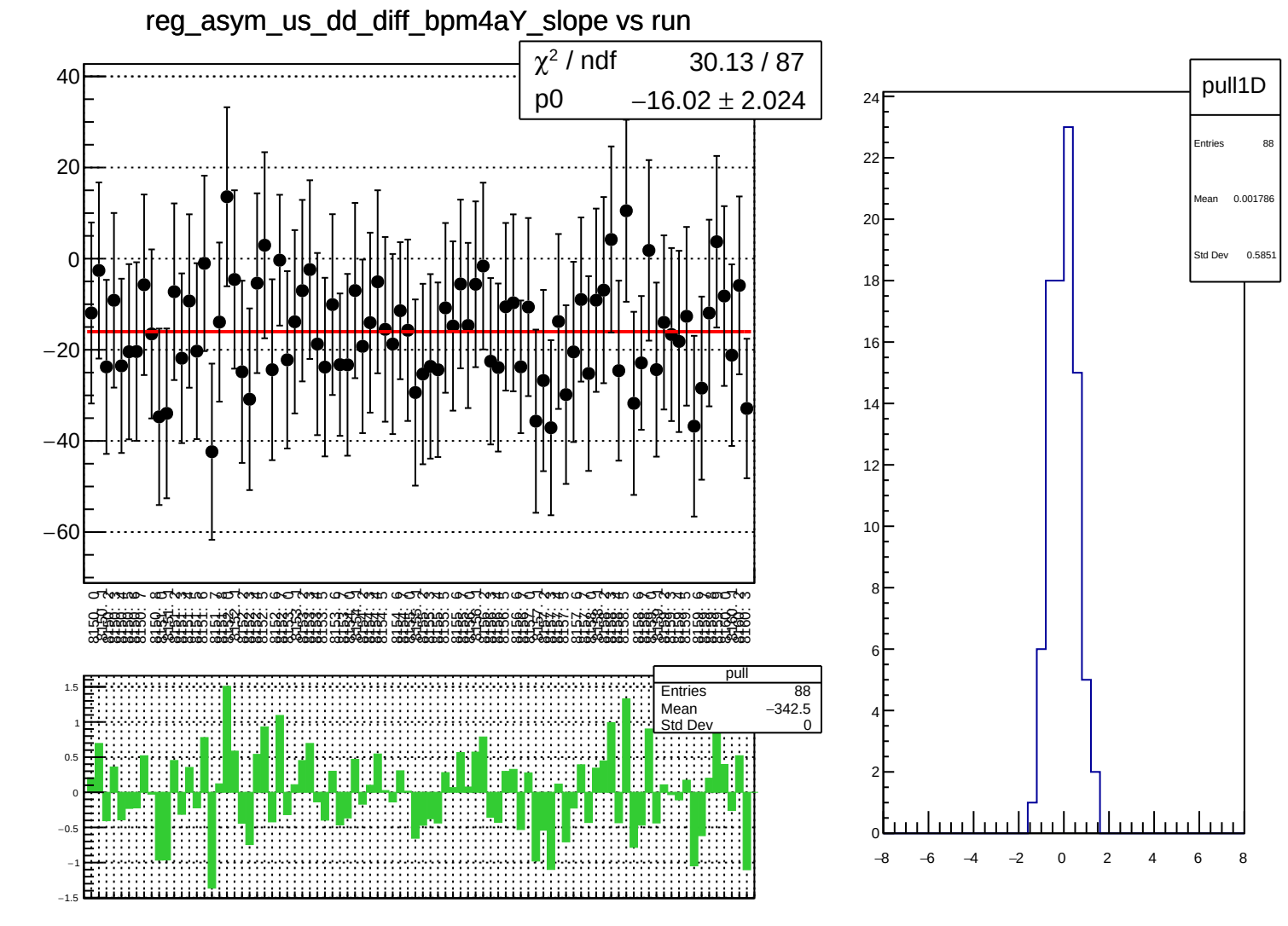

pull1D
Entries 88
Mean 0.003912
Std Dev 0.4903

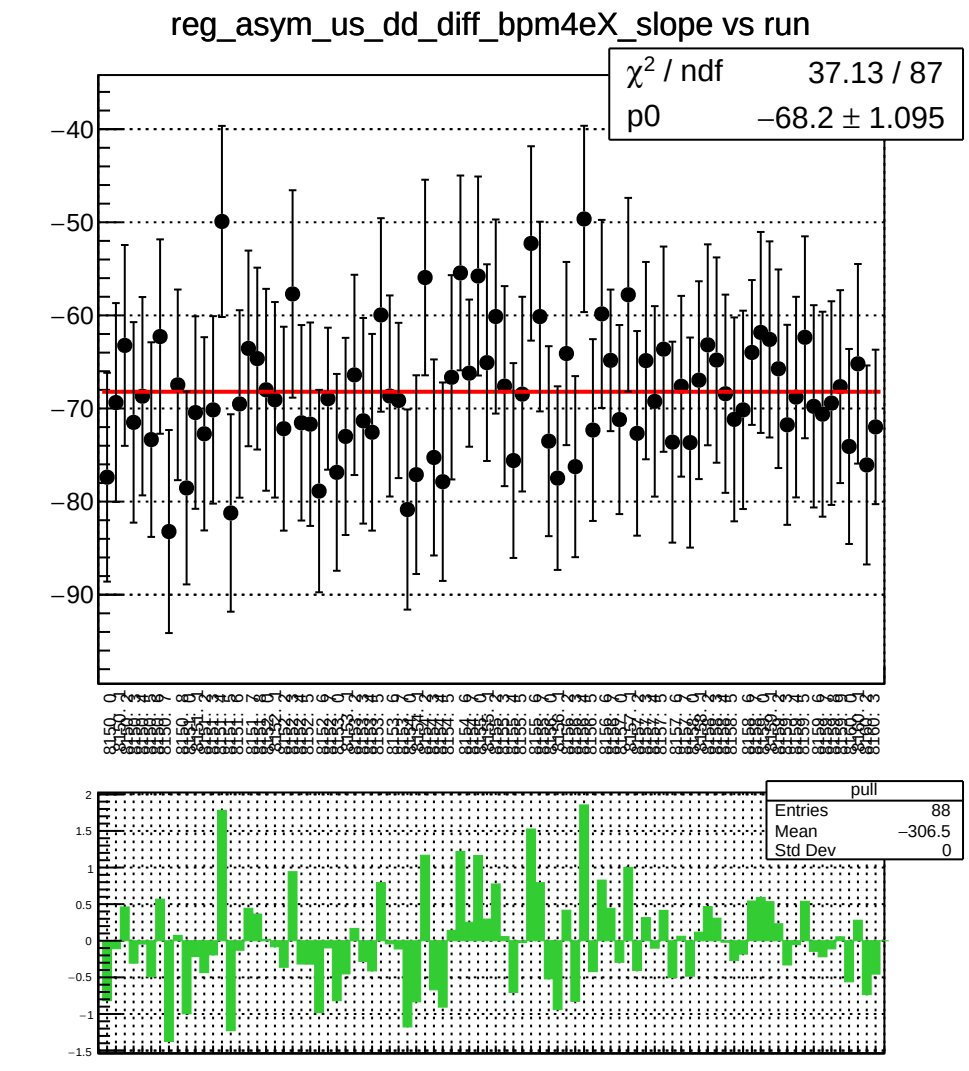

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 28.84 / 87
p0 −41.88 ± 0.1332
pull
Entries 88
Mean −17.1
Std Dev 0

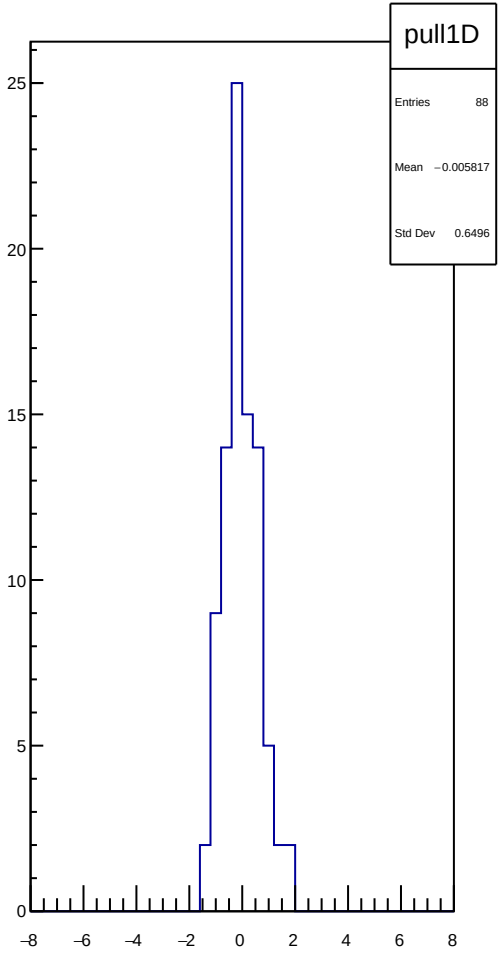

pull1D
Entries 88
Mean −0.01256
Std Dev 0.5724

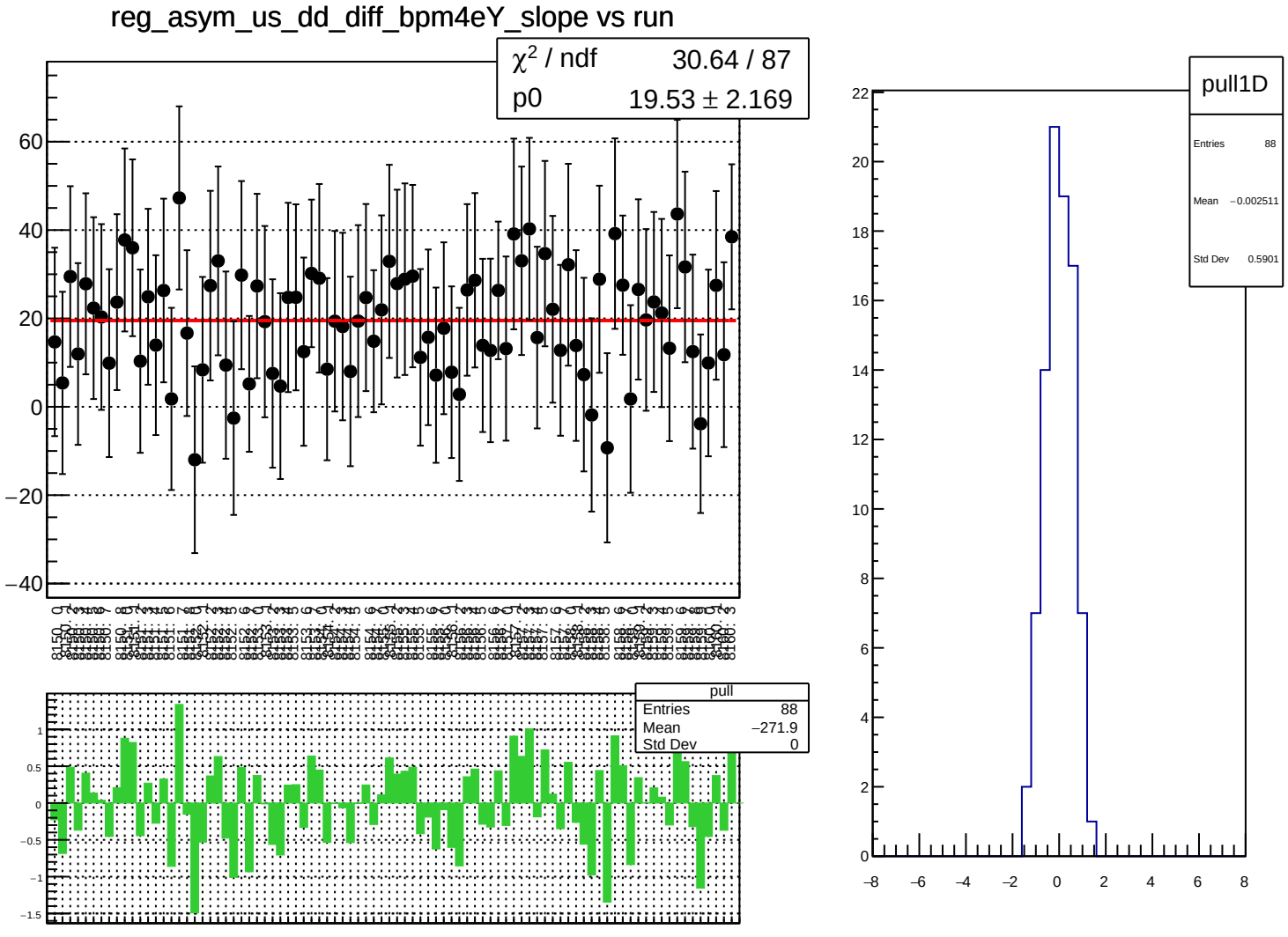

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 36.65 / 87
p0 10.1 ± 1.081
pull
Entries 88
Mean −336
Std Dev 0

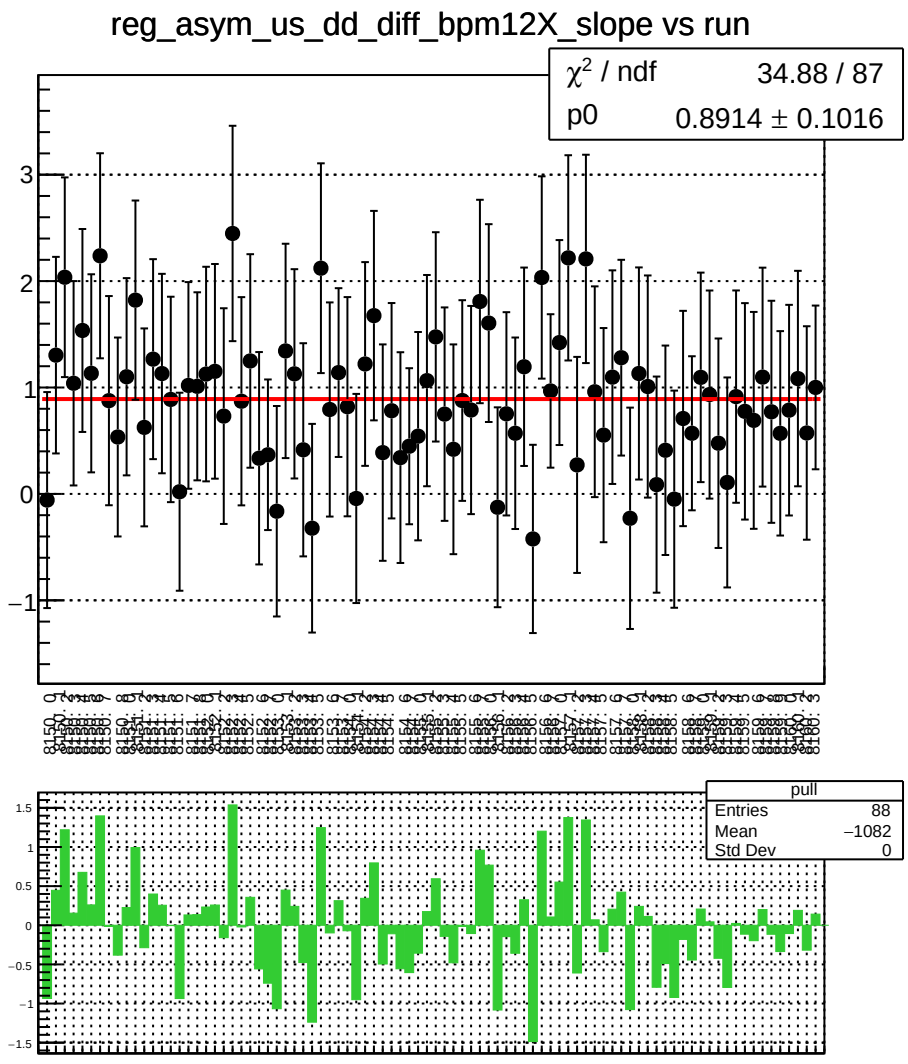

pull1D
Entries 88
Mean 0.007386
Std Dev 0.6454

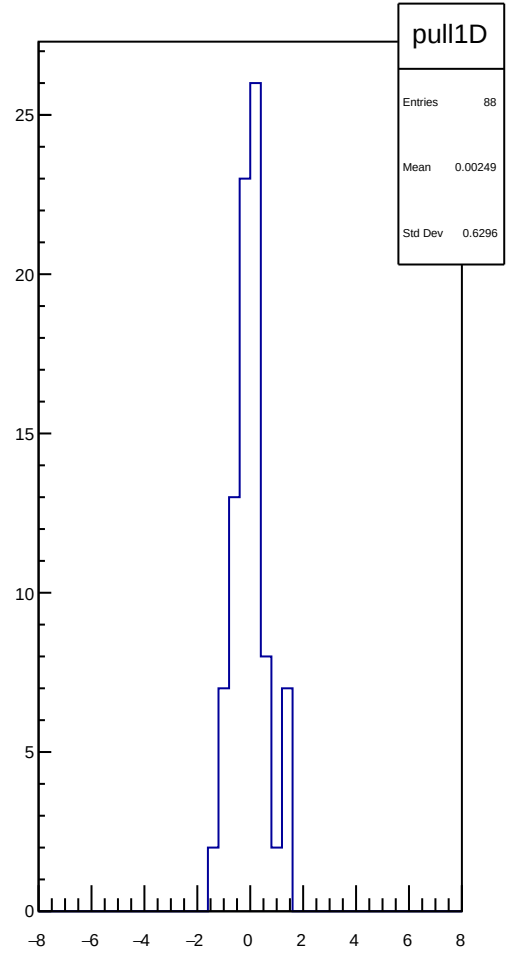

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.13 / 87
p0 −16.02 ± 2.024
pull
Entries 88
Mean −342.5
Std Dev 0
pull1D
Entries 88
Mean 0.001786
Std Dev 0.5851

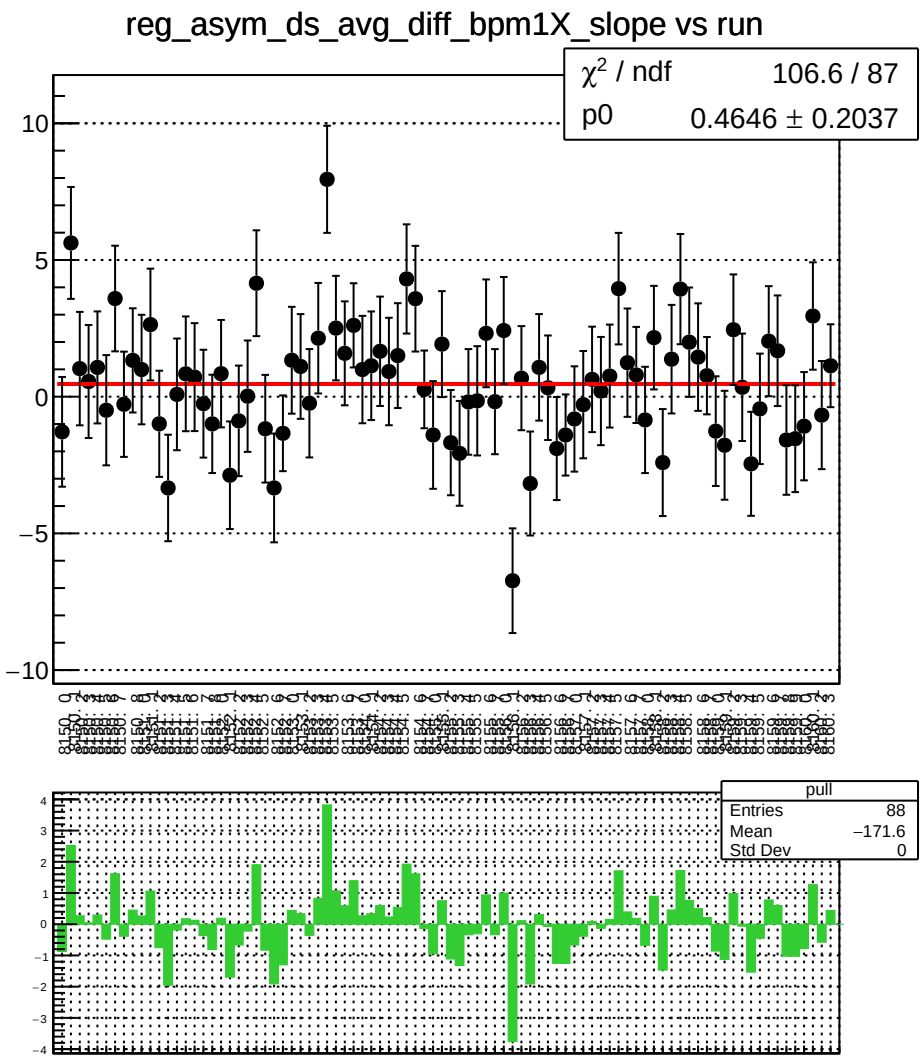

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.13 / 87
p0 −68.2 ± 1.095
pull
Entries 88
Mean −306.5
Std Dev 0

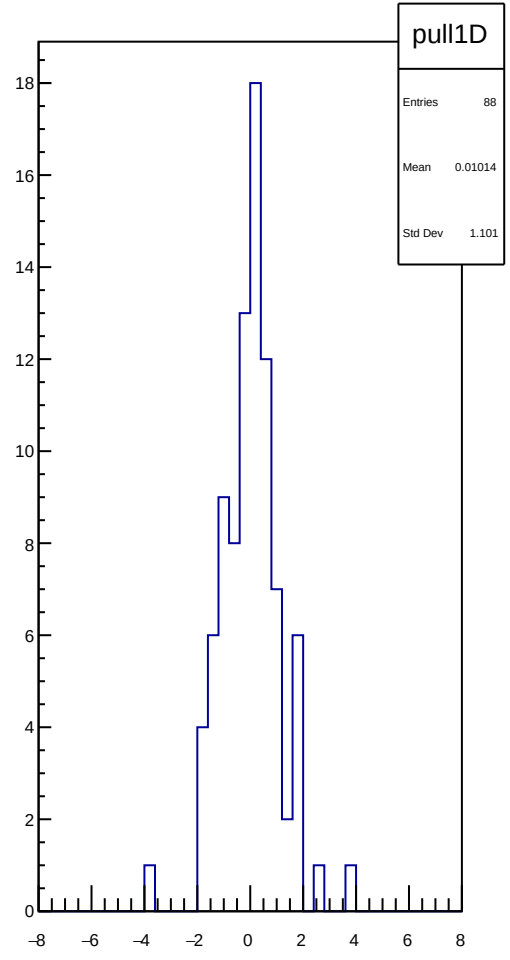

pull1D
Entries 88
Mean −0.005817
Std Dev 0.6496

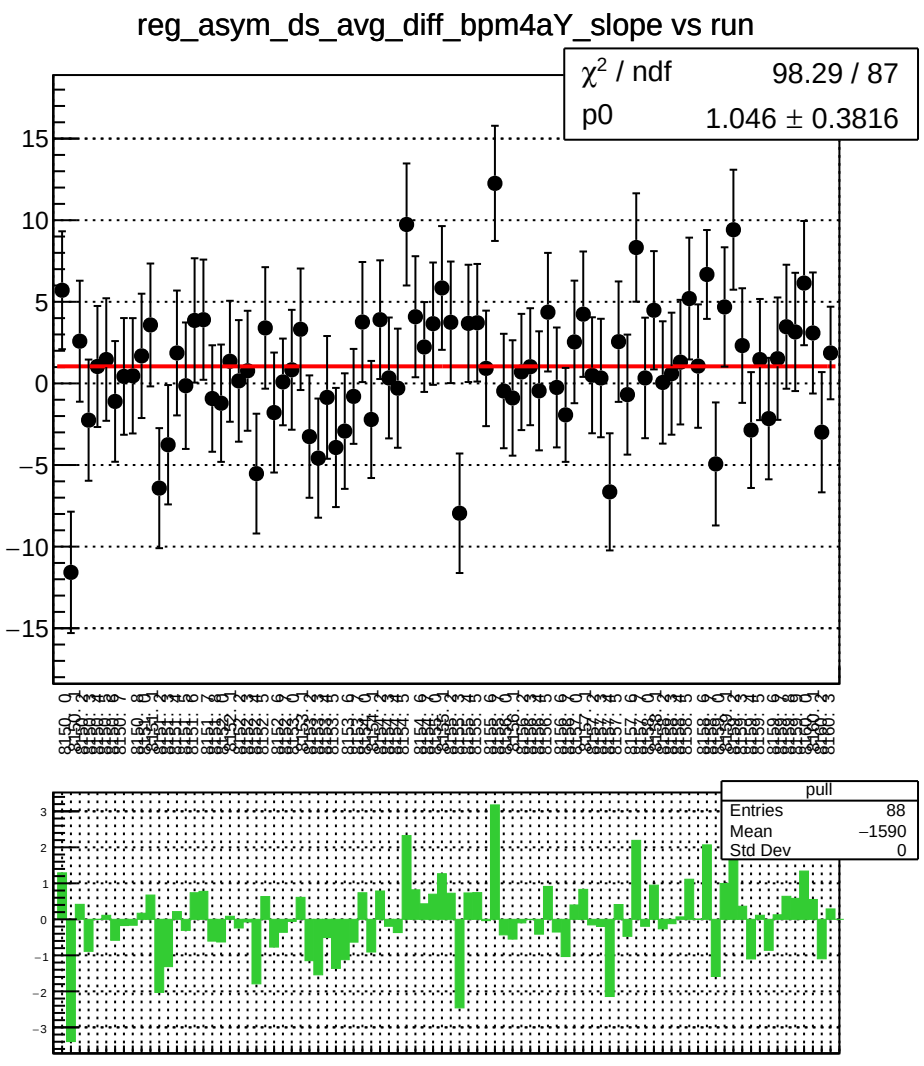

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.64 / 87
p0 19.53 ± 2.169
pull
Entries 88
Mean −271.9
Std Dev 0
pull1D
Entries 88
Mean −0.002511
Std Dev 0.5901

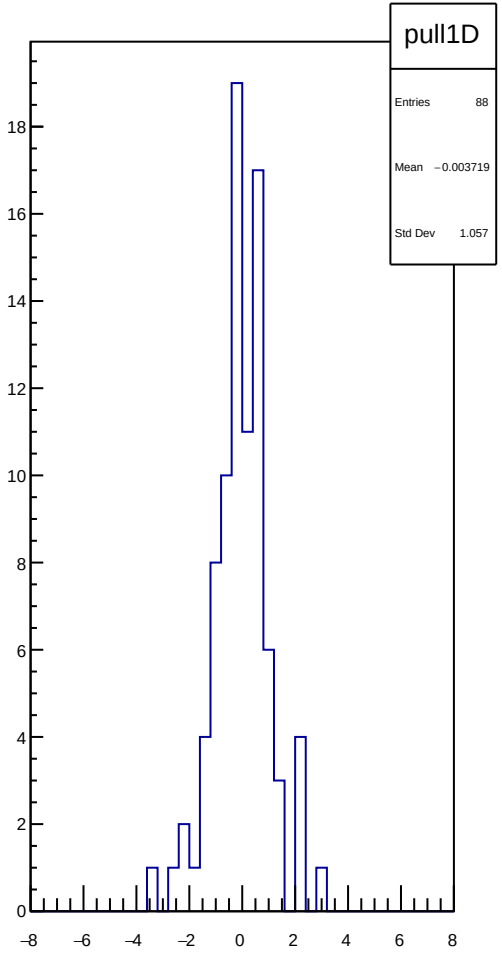

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 34.88 / 87
p0 0.8914 ± 0.1016
pull
Entries 88
Mean −1082
Std Dev 0

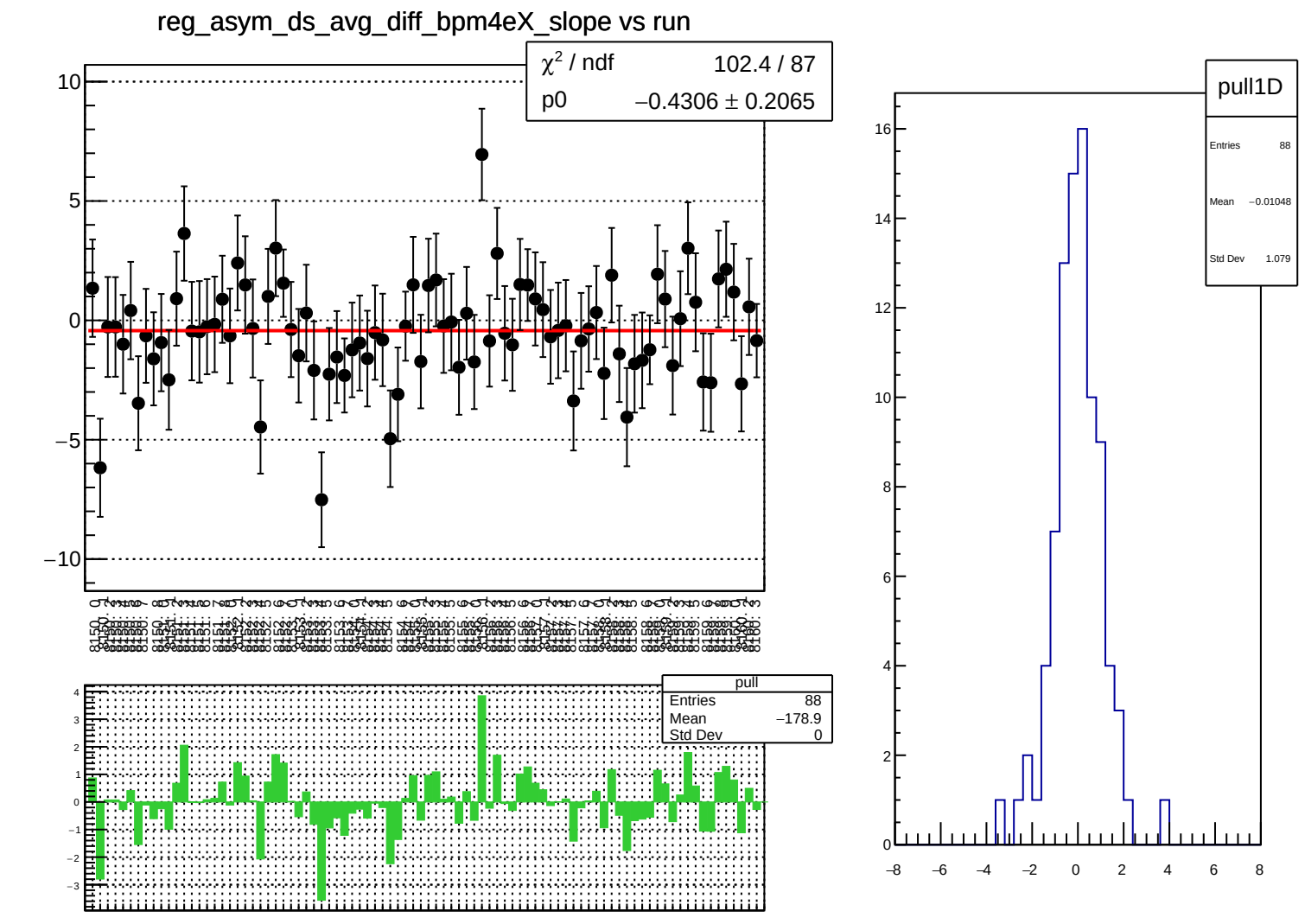

pull1D
Entries 88
Mean 0.00249
Std Dev 0.6296

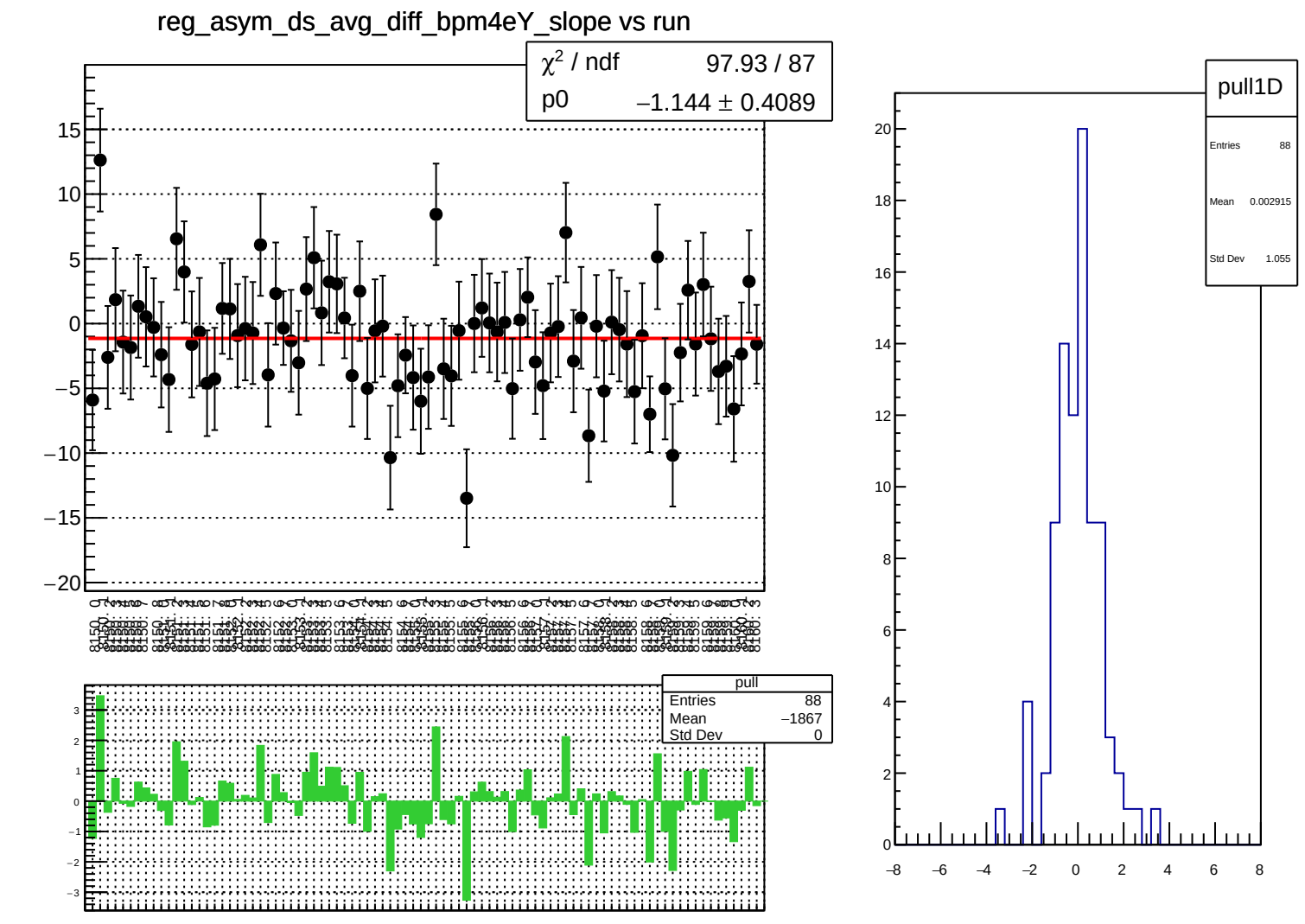

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 106.6 / 87
p0 0.4646 ± 0.2037
pull
Entries 88
Mean −171.6
Std Dev 0

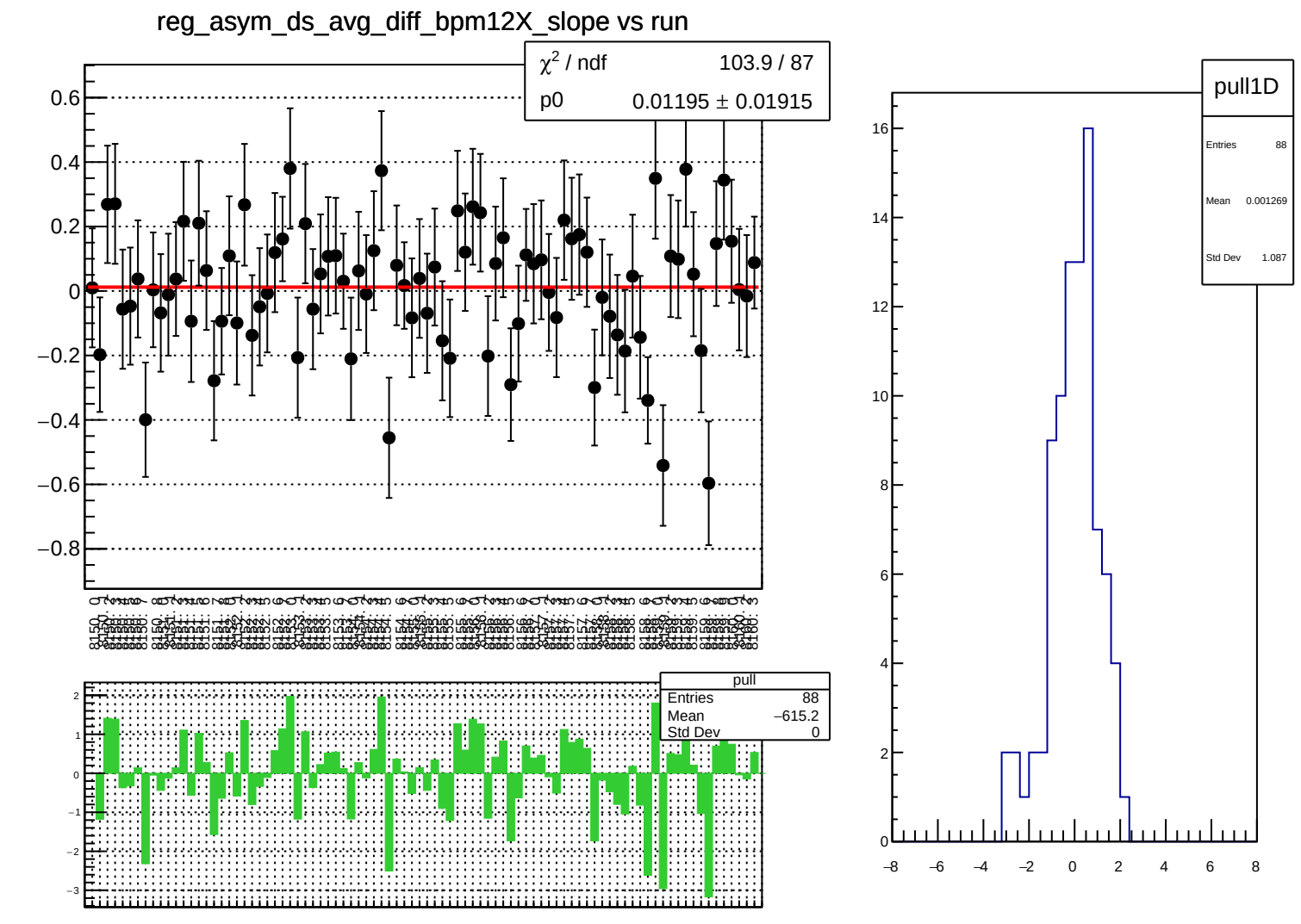

pull1D
Entries 88
Mean 0.01014
Std Dev 1.101

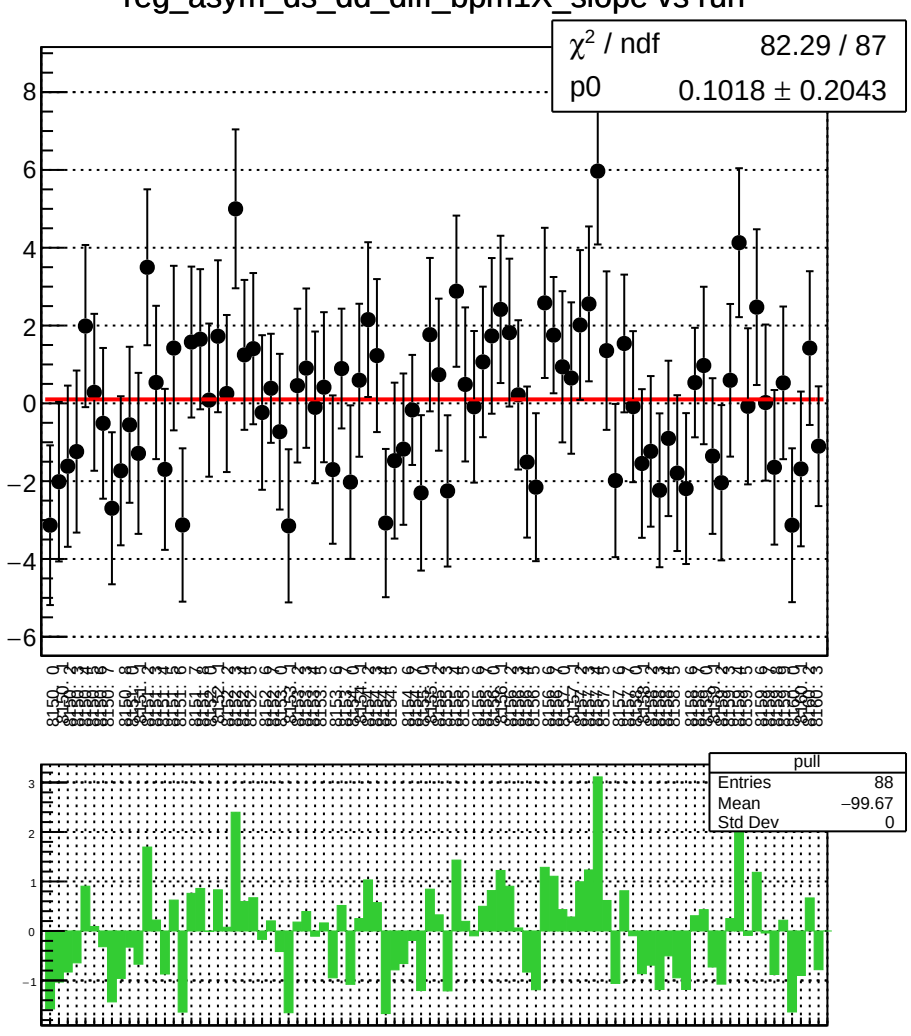

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 98.29 / 87
p0 1.046 ± 0.3816
pull
Entries 88
Mean −1590
Std Dev 0

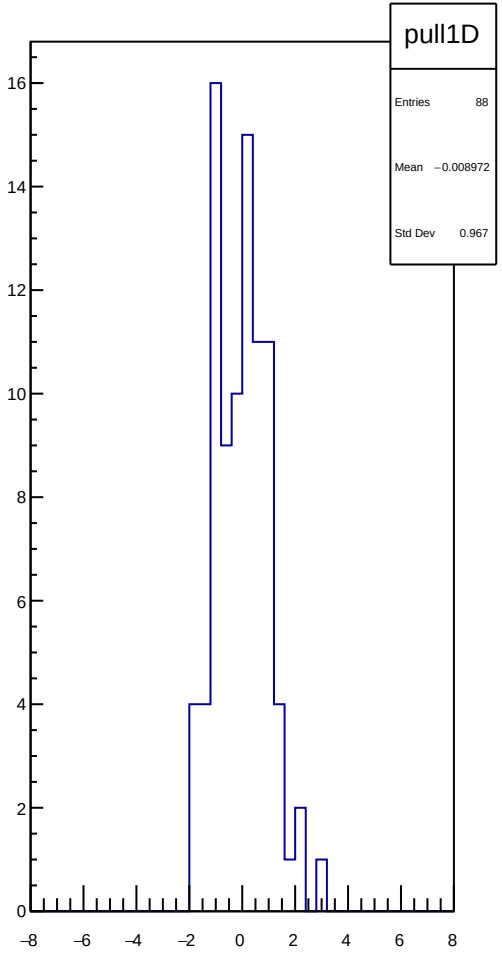

pull1D
Entries 88
Mean −0.003719
Std Dev 1.057

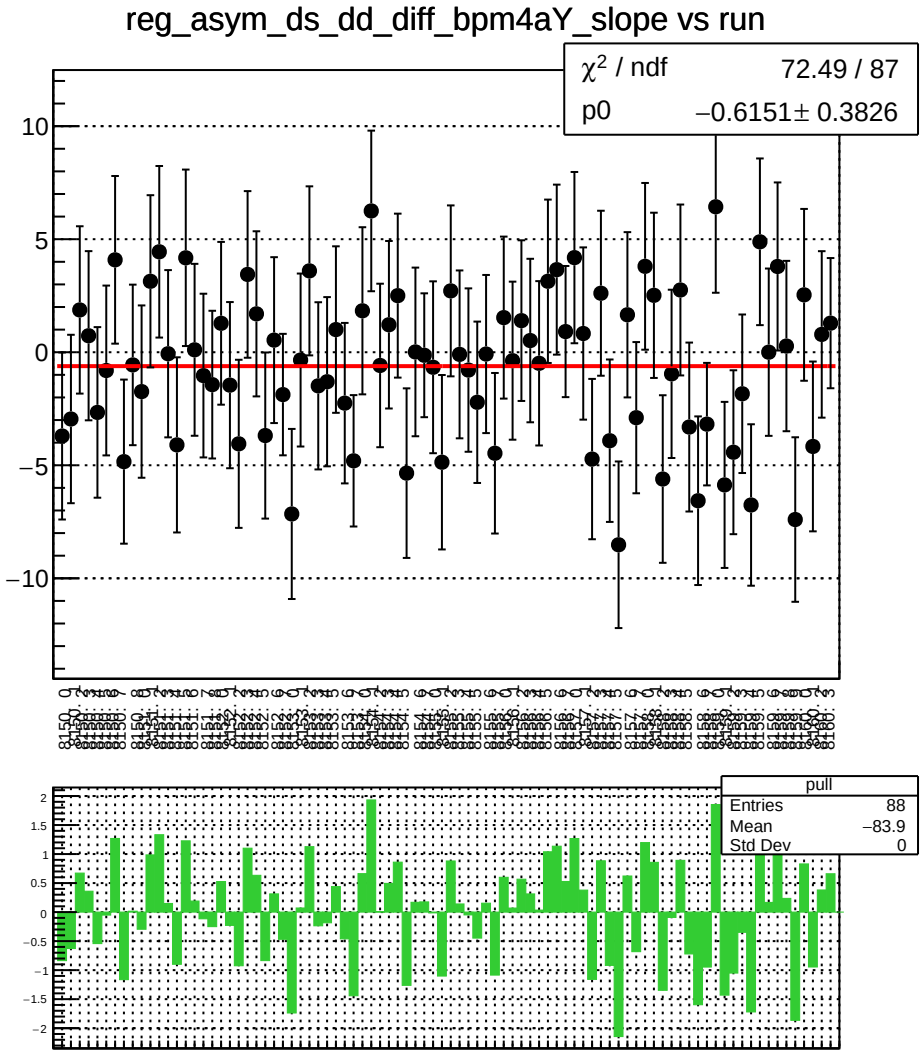

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 102.4 / 87
p0 −0.4306 ± 0.2065
pull
Entries 88
Mean −178.9
Std Dev 0
pull1D
Entries 88
Mean −0.01048
Std Dev 1.079

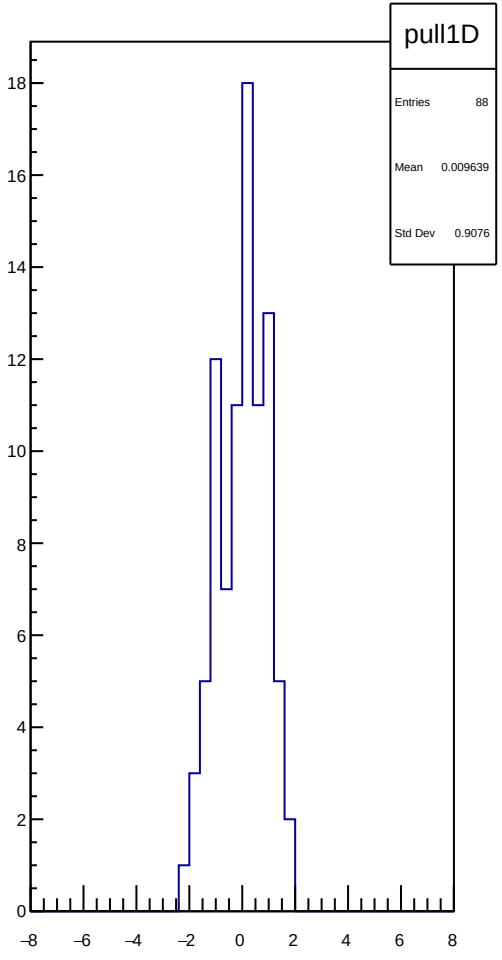

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 97.93 / 87
p0 −1.144 ± 0.4089
pull
Entries 88
Mean −1867
Std Dev 0
pull1D
Entries 88
Mean 0.002915
Std Dev 1.055

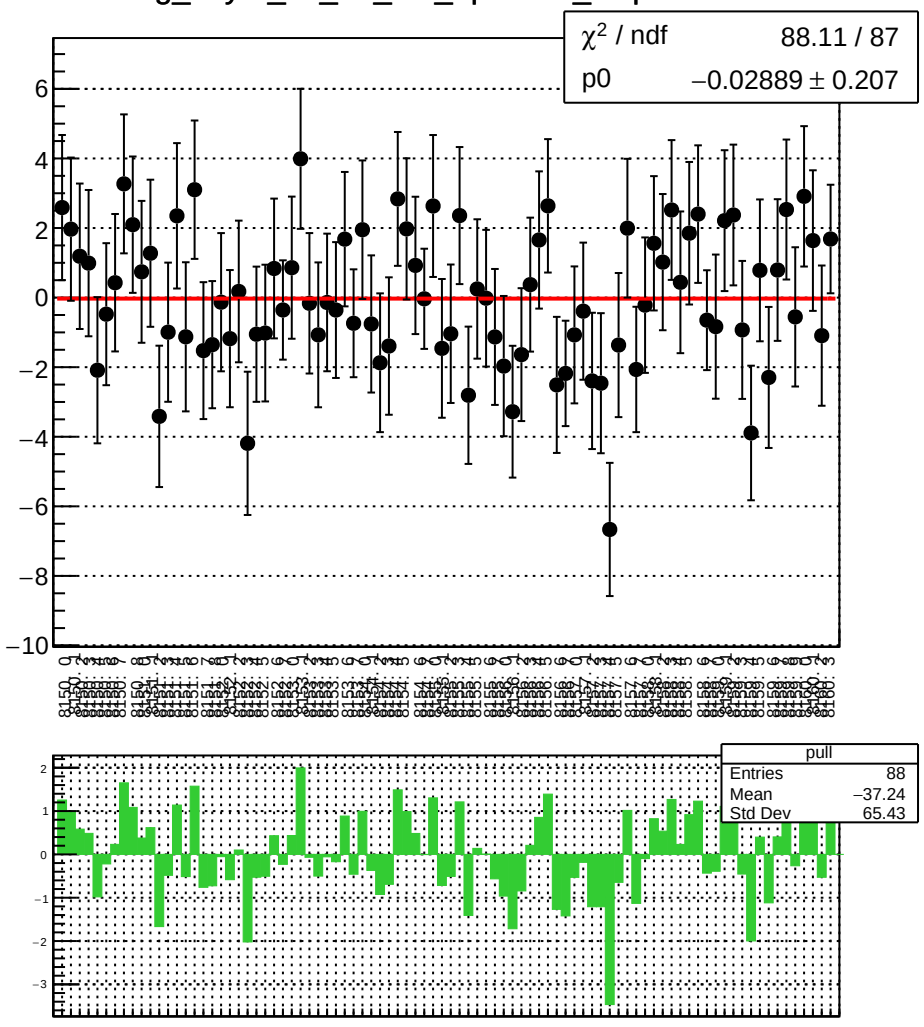

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 103.9 / 87
p0 0.01195 ± 0.01915
pull
Entries 88
Mean −615.2
Std Dev 0
pull1D
Entries 88
Mean 0.001269
Std Dev 1.087

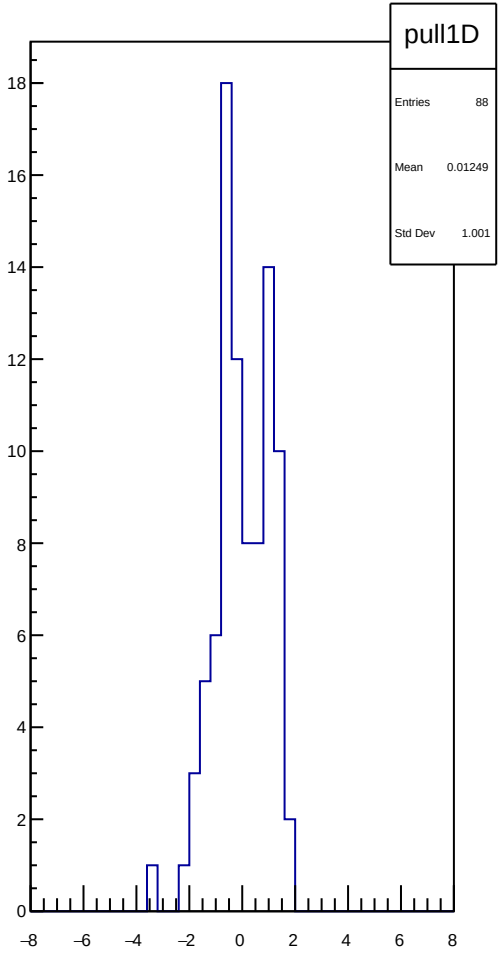

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 82.29 / 87
p0 0.1018 ± 0.2043
pull
Entries 88
Mean −99.67
Std Dev 0

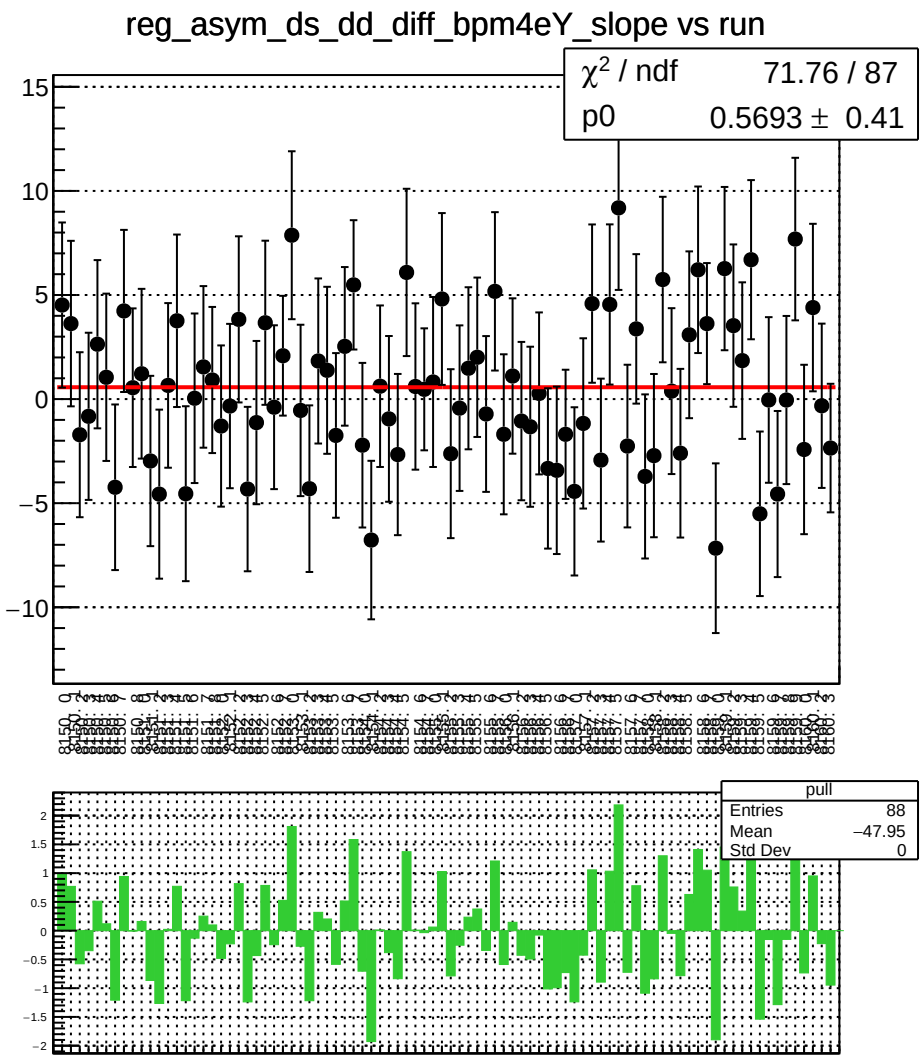

pull1D
Entries 88
Mean −0.008972
Std Dev 0.967

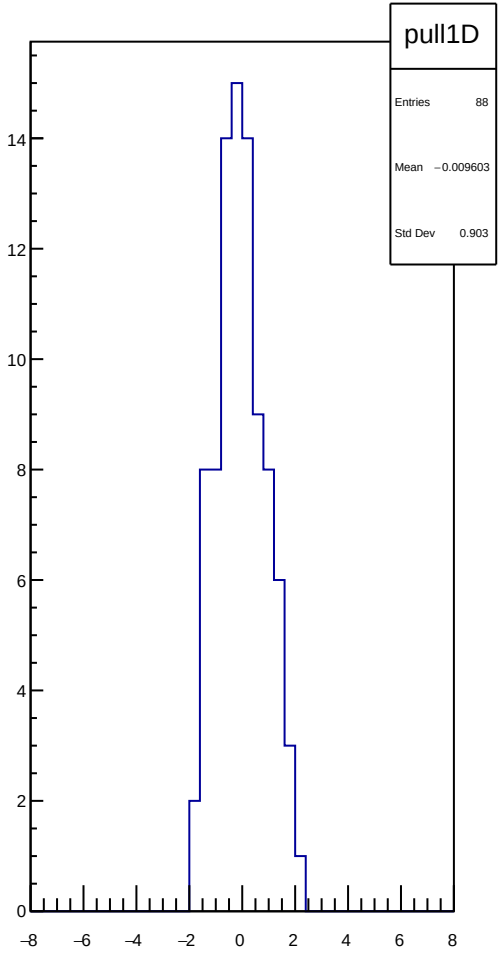

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.49 / 87
p0 −0.6151 ± 0.3826
pull
Entries 88
Mean −83.9
Std Dev 0

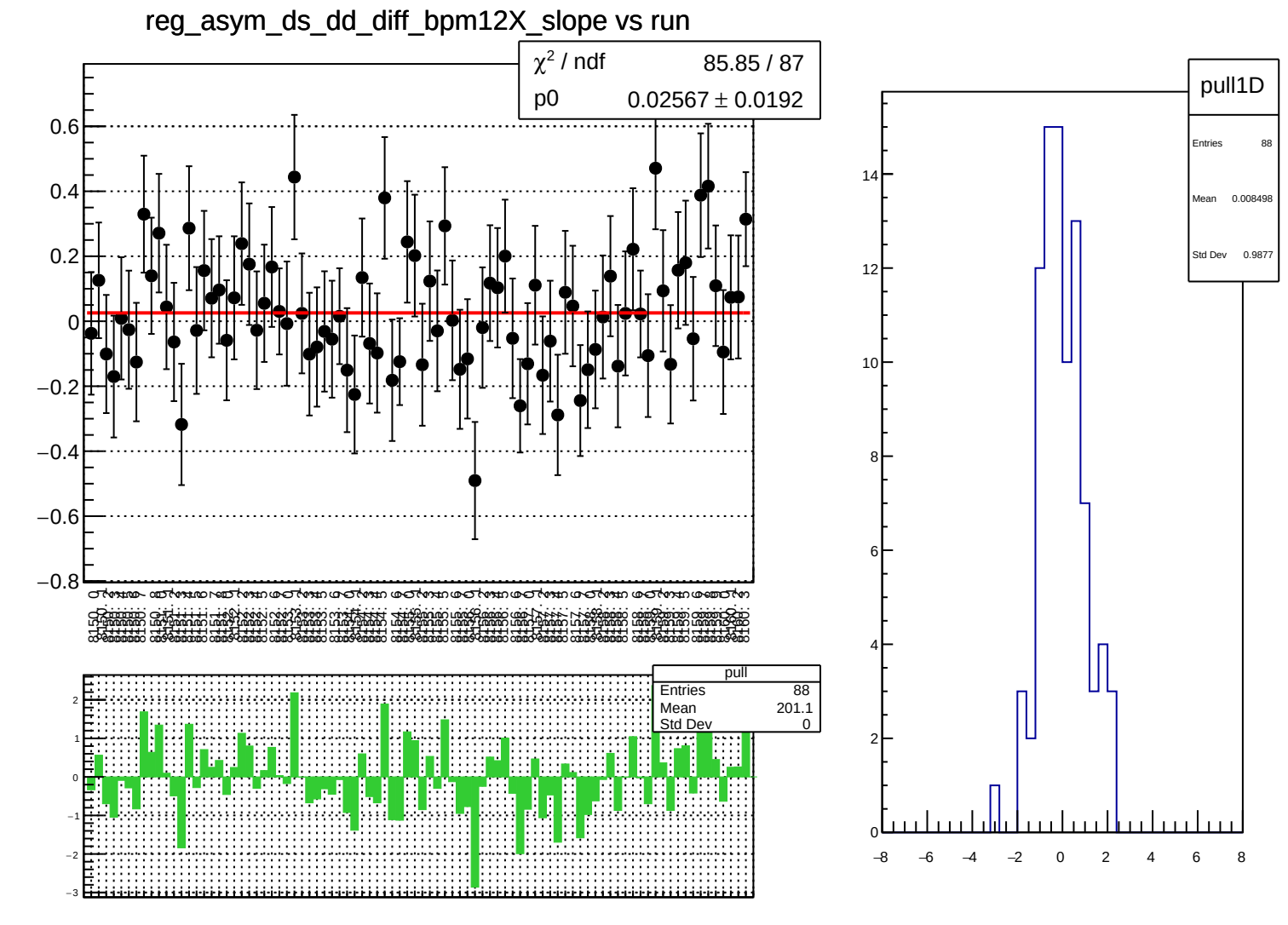

pull1D
Entries 88
Mean 0.009639
Std Dev 0.9076

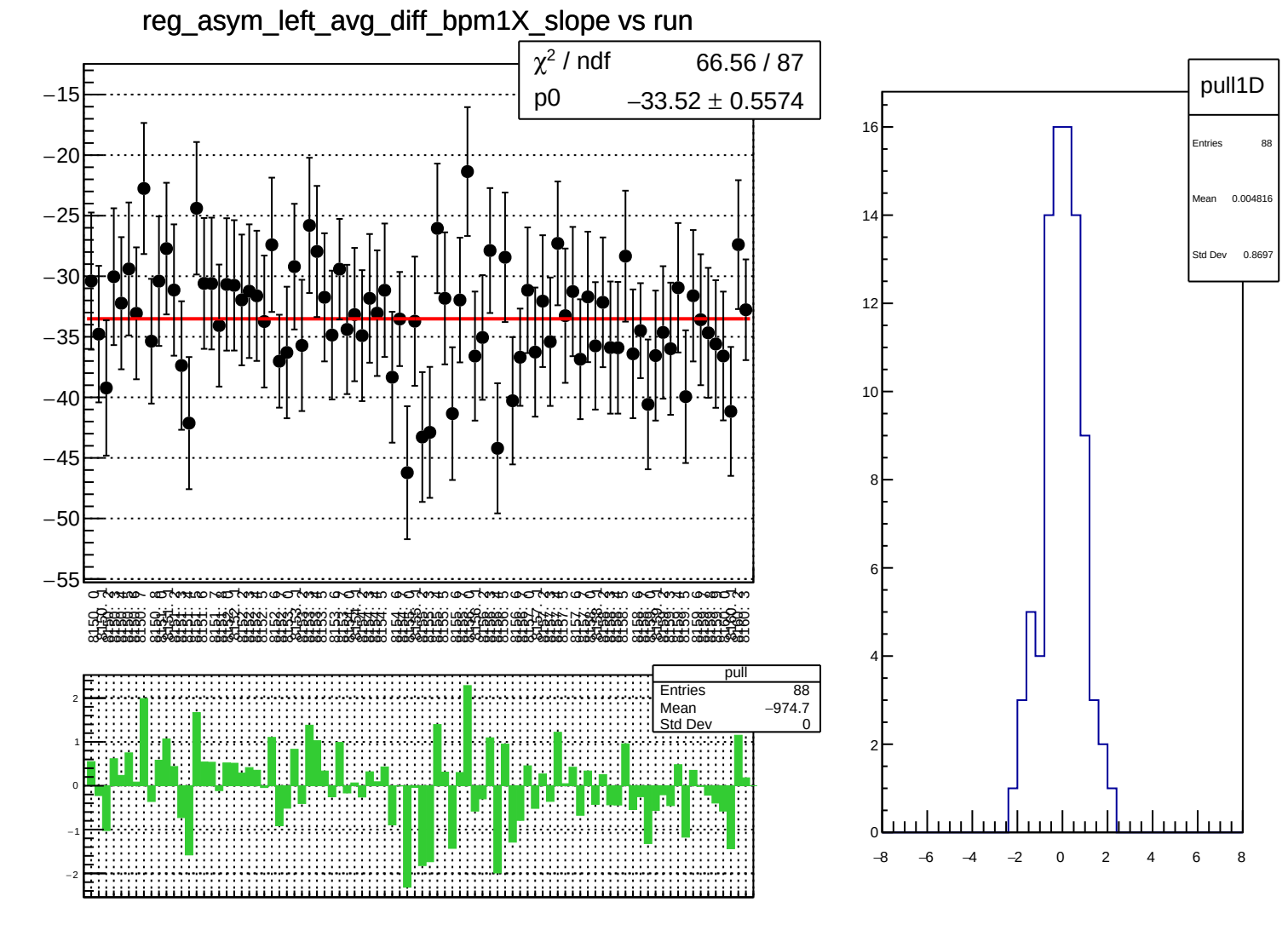

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.11 / 87
p0 −0.02889 ± 0.207
pull
Entries 88
Mean −37.24
Std Dev 65.43

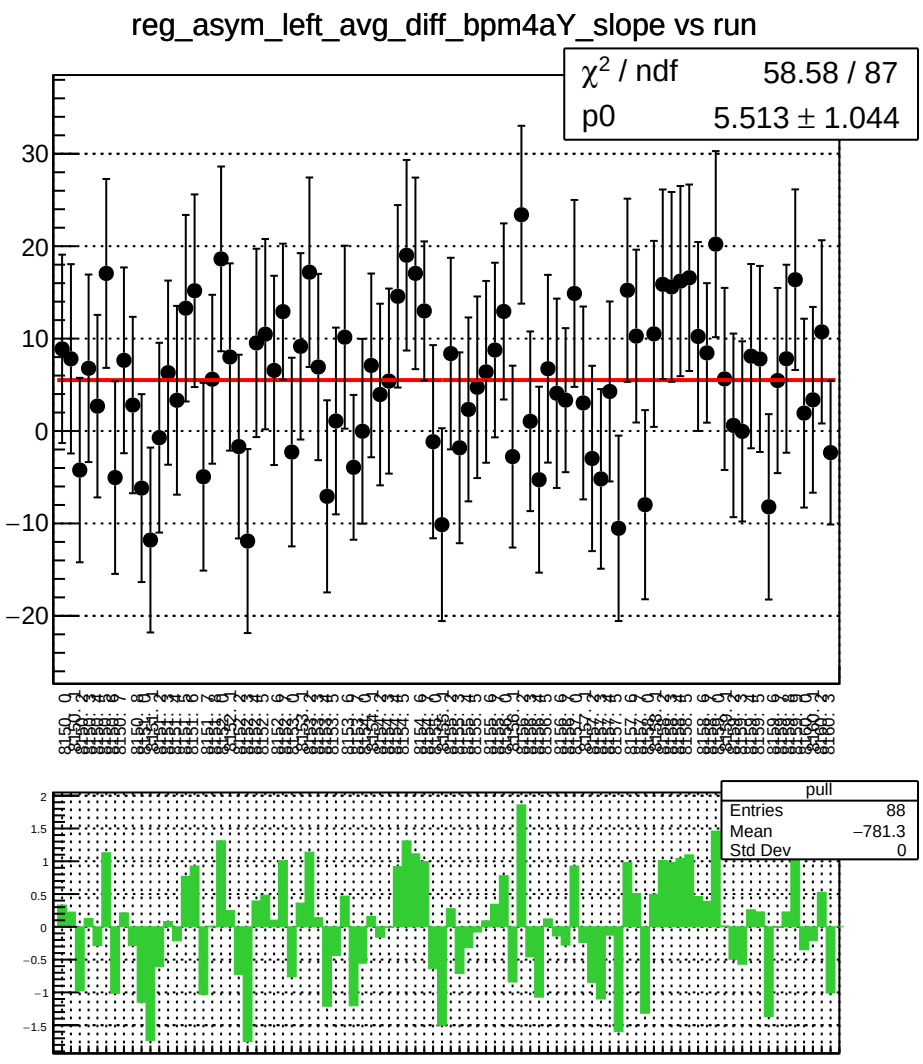

pull1D
Entries 88
Mean 0.01249
Std Dev 1.001

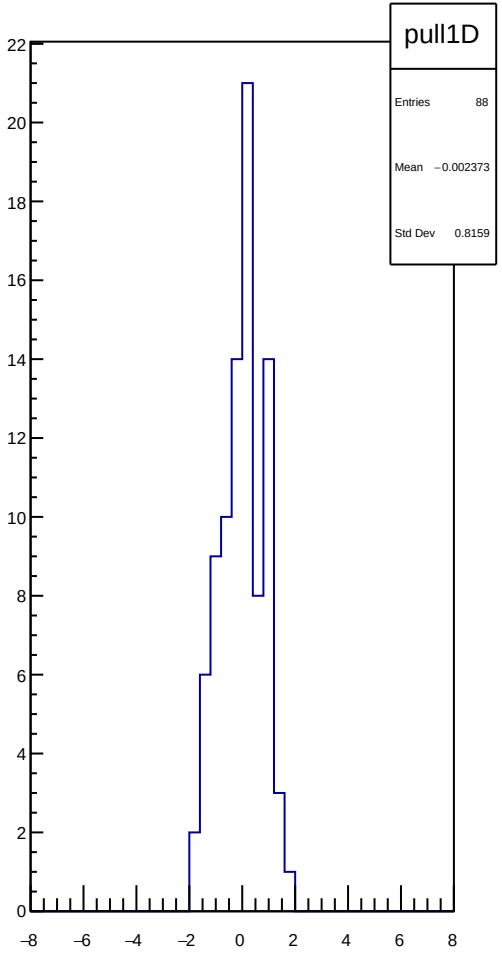

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.76 / 87
p0 0.5693 ± 0.41
pull
Entries 88
Mean −47.95
Std Dev 0

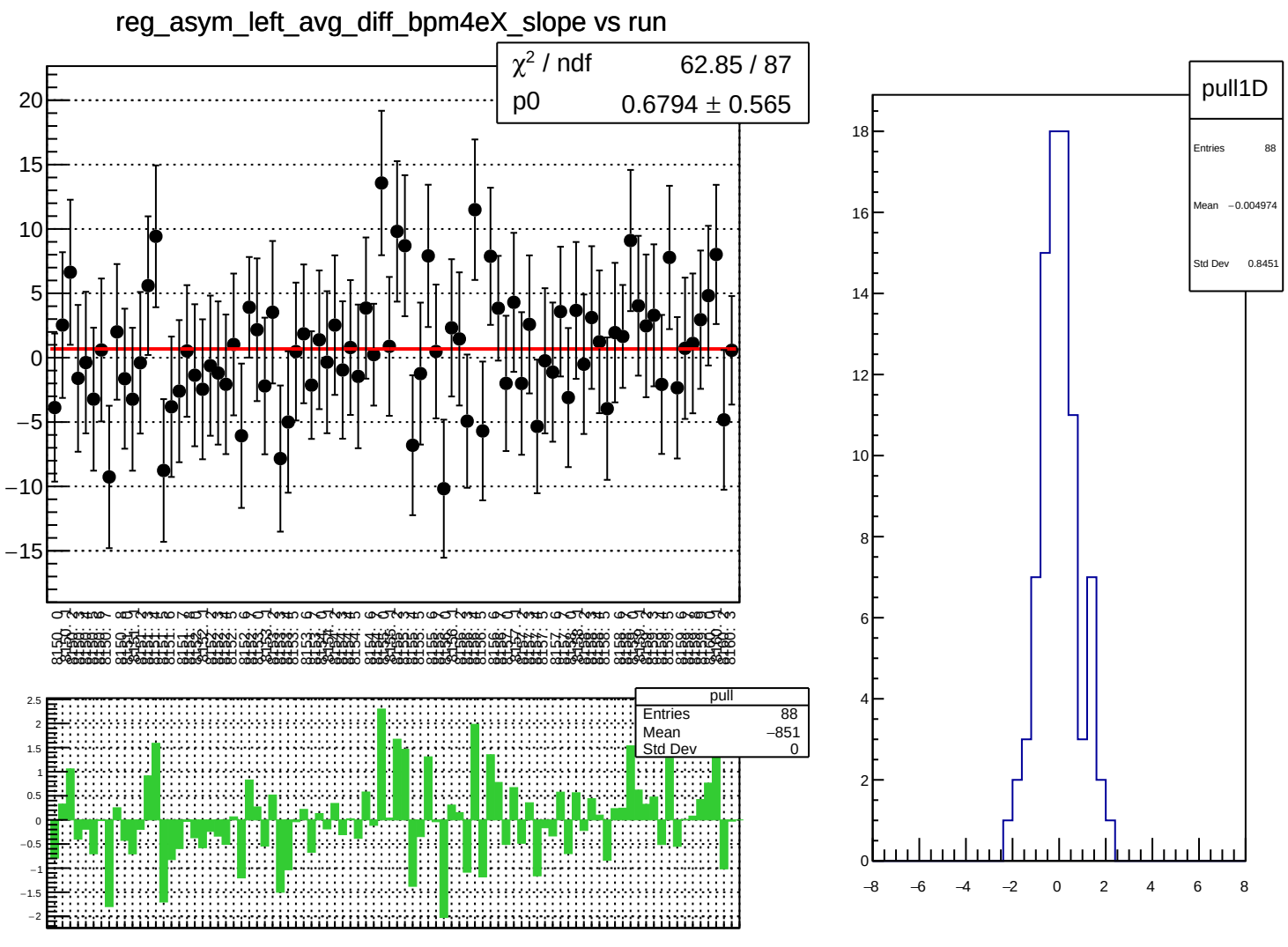

pull1D
Entries 88
Mean −0.009603
Std Dev 0.903

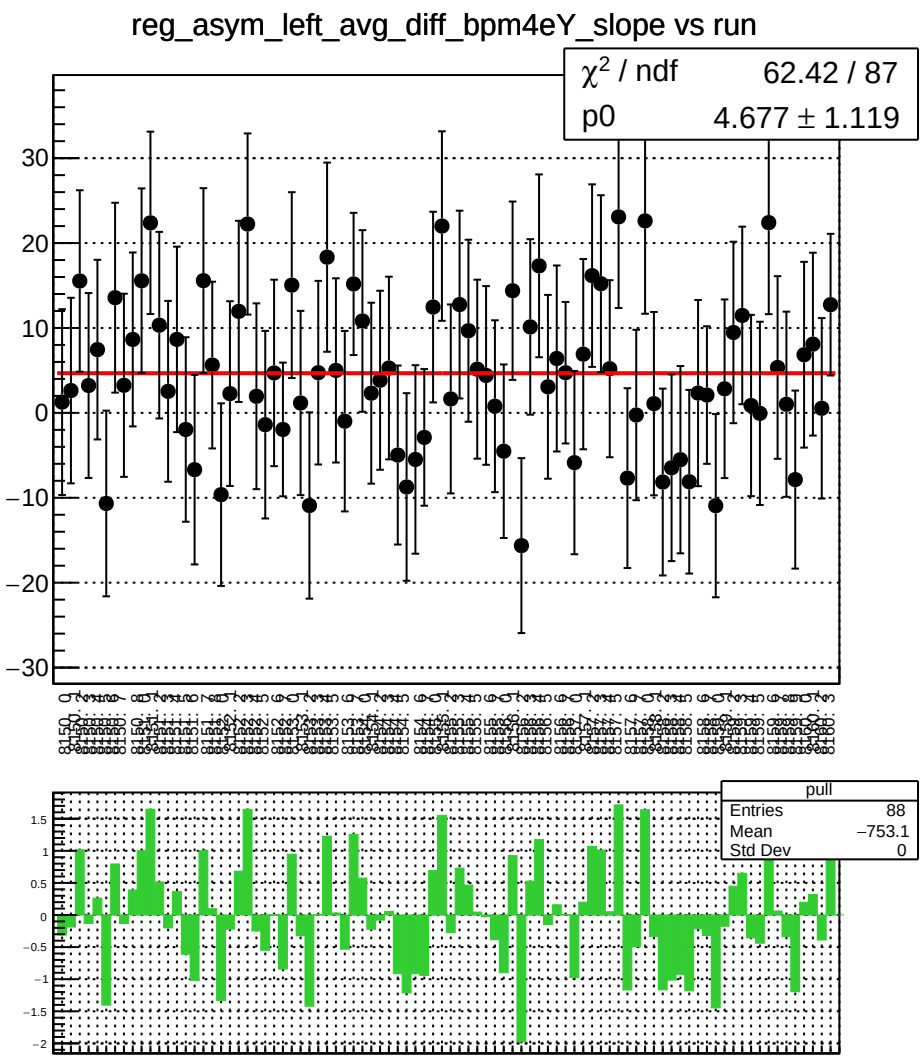

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 85.85 / 87
p0 0.02567 ± 0.0192
pull
Entries 88
Mean 201.1
Std Dev 0
pull1D
Entries 88
Mean 0.008498
Std Dev 0.9877

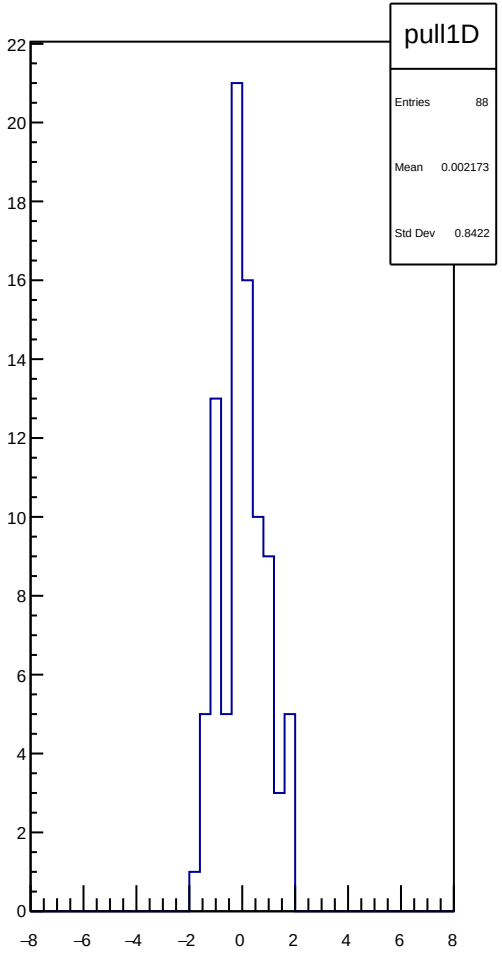

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 66.56 / 87
p0 −33.52 ± 0.5574
pull
Entries 88
Mean −974.7
Std Dev 0
pull1D
Entries 88
Mean 0.004816
Std Dev 0.8697

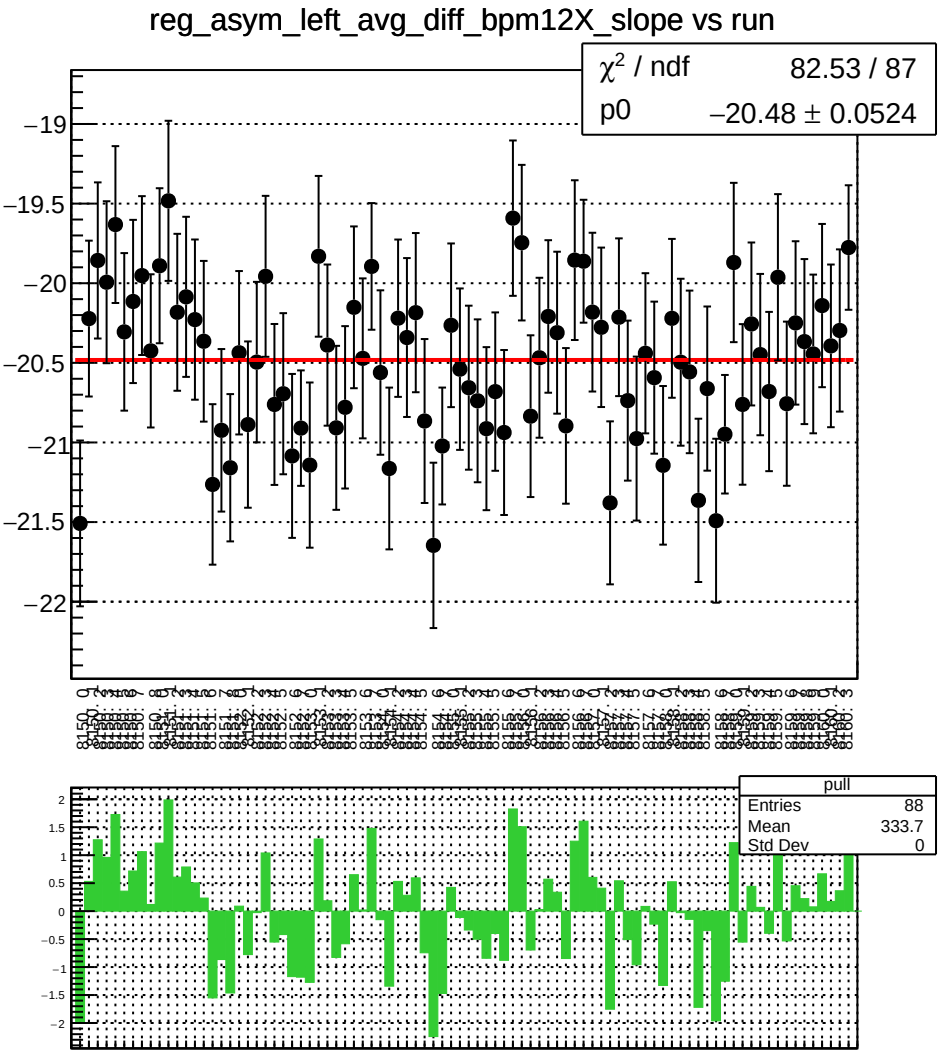

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 58.58 / 87
p0 5.513 ± 1.044
pull
Entries 88
Mean −781.3
Std Dev 0

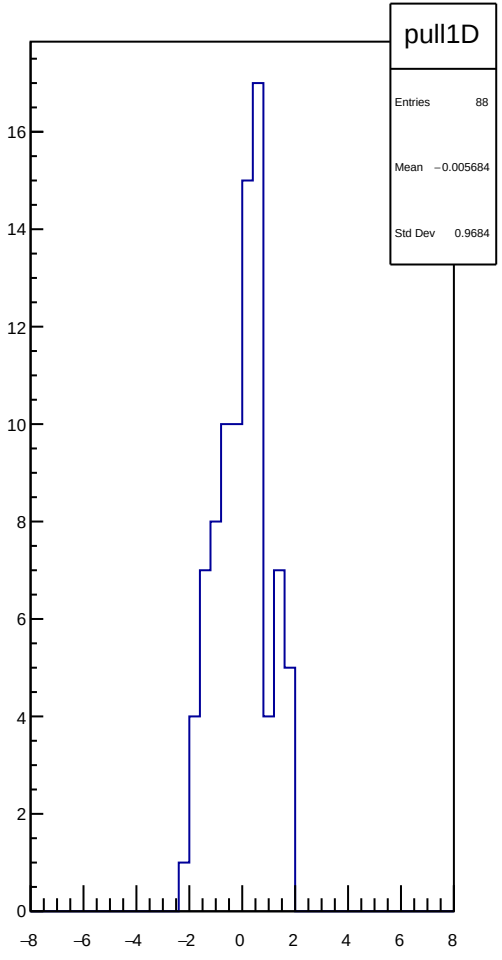

pull1D
Entries 88
Mean −0.002373
Std Dev 0.8159

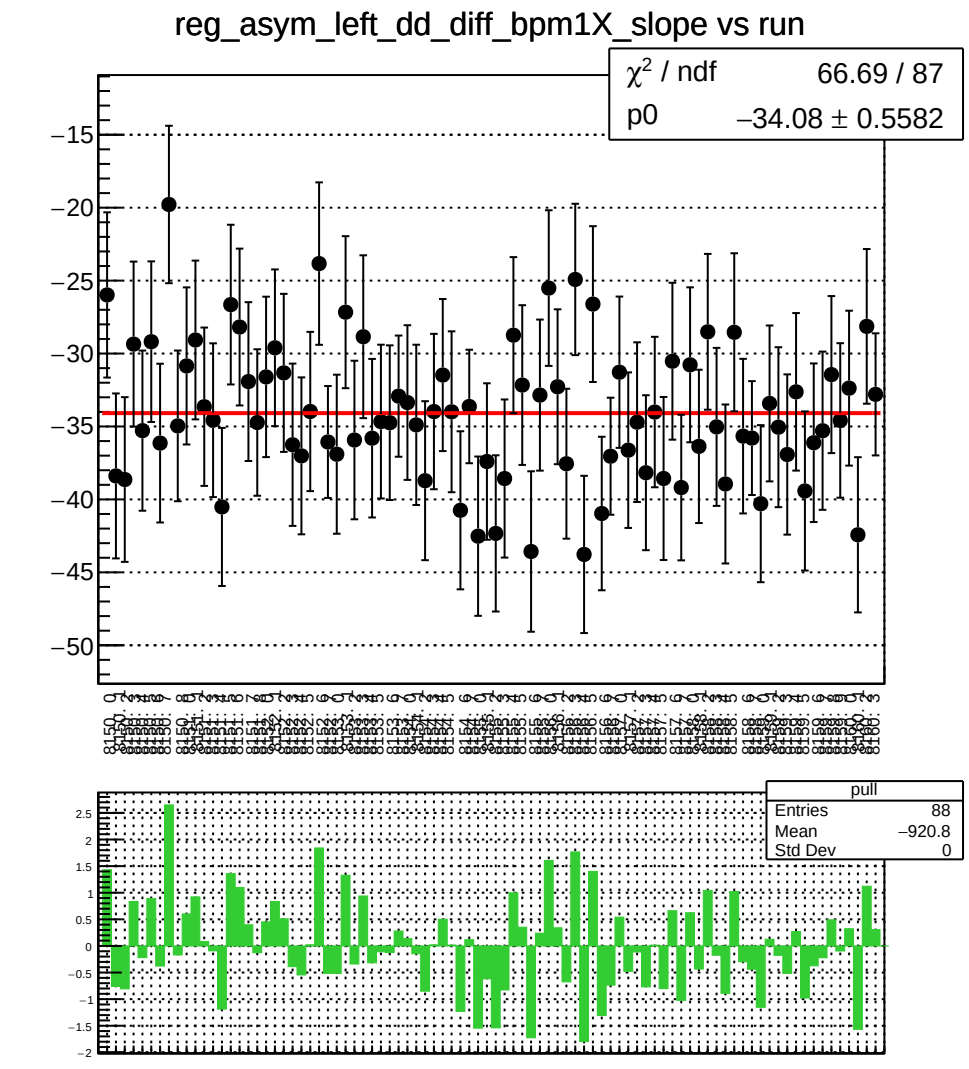

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 62.85 / 87
p0 0.6794 ± 0.565
pull
Entries 88
Mean −851
Std Dev 0
pull1D
Entries 88
Mean −0.004974
Std Dev 0.8451

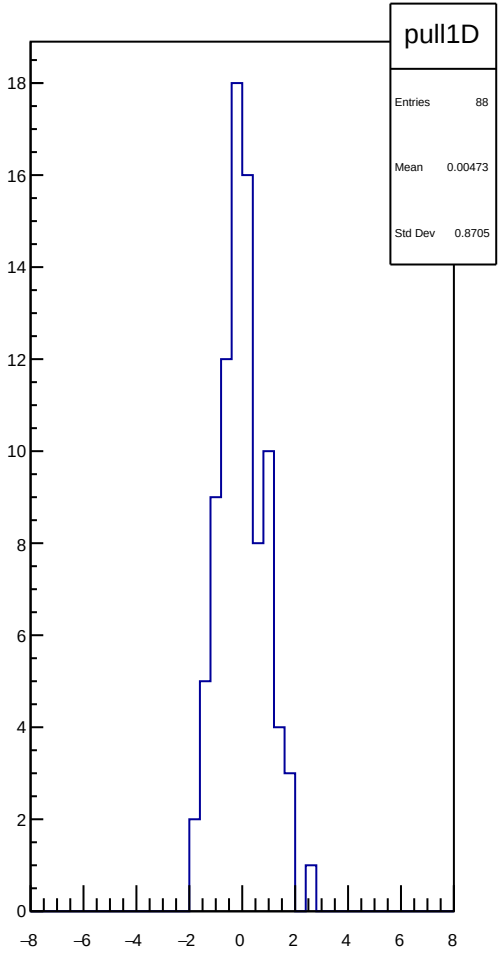

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 62.42 / 87
p0 4.677 ± 1.119
pull
Entries 88
Mean −753.1
Std Dev 0

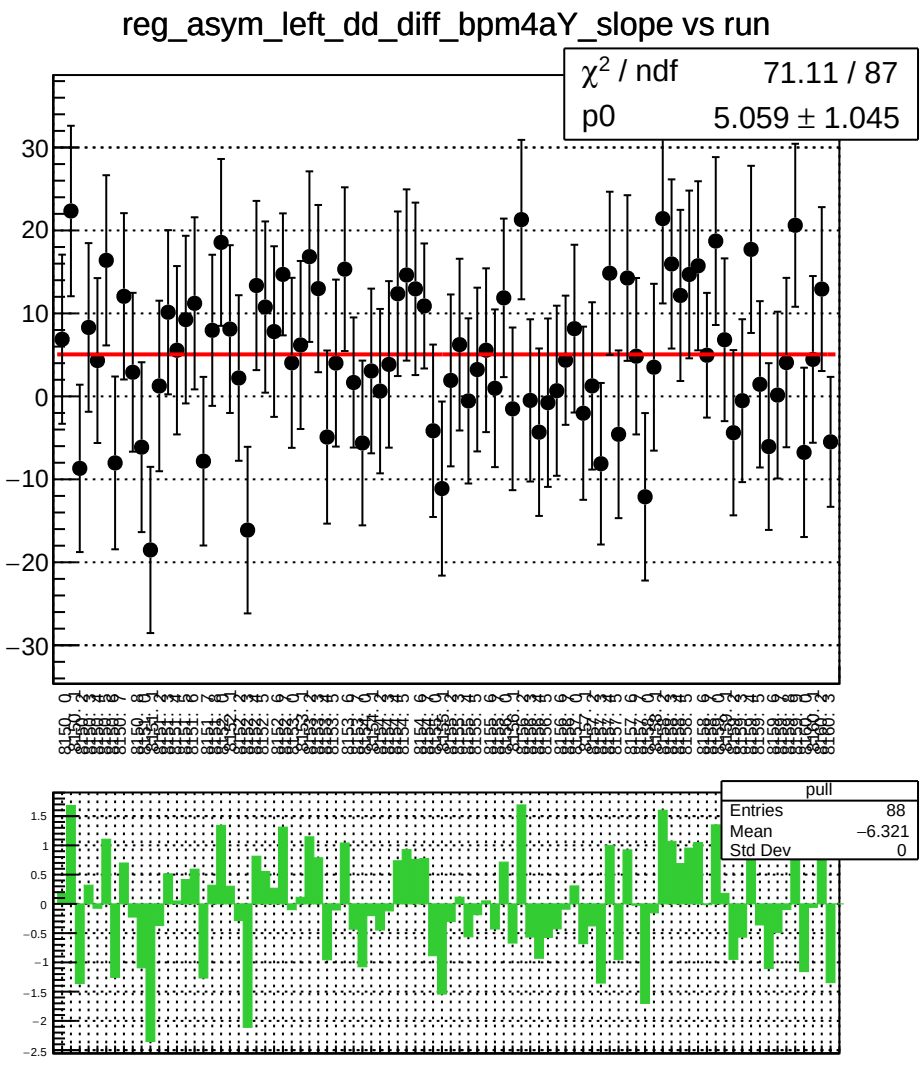

pull1D
Entries 88
Mean 0.002173
Std Dev 0.8422

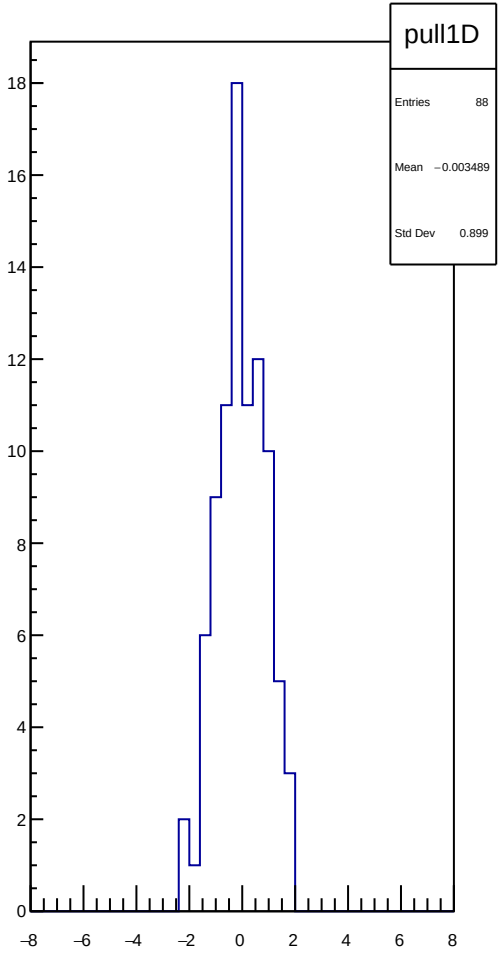

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 82.53 / 87
p0 −20.48 ± 0.0524
pull
Entries 88
Mean 333.7
Std Dev 0

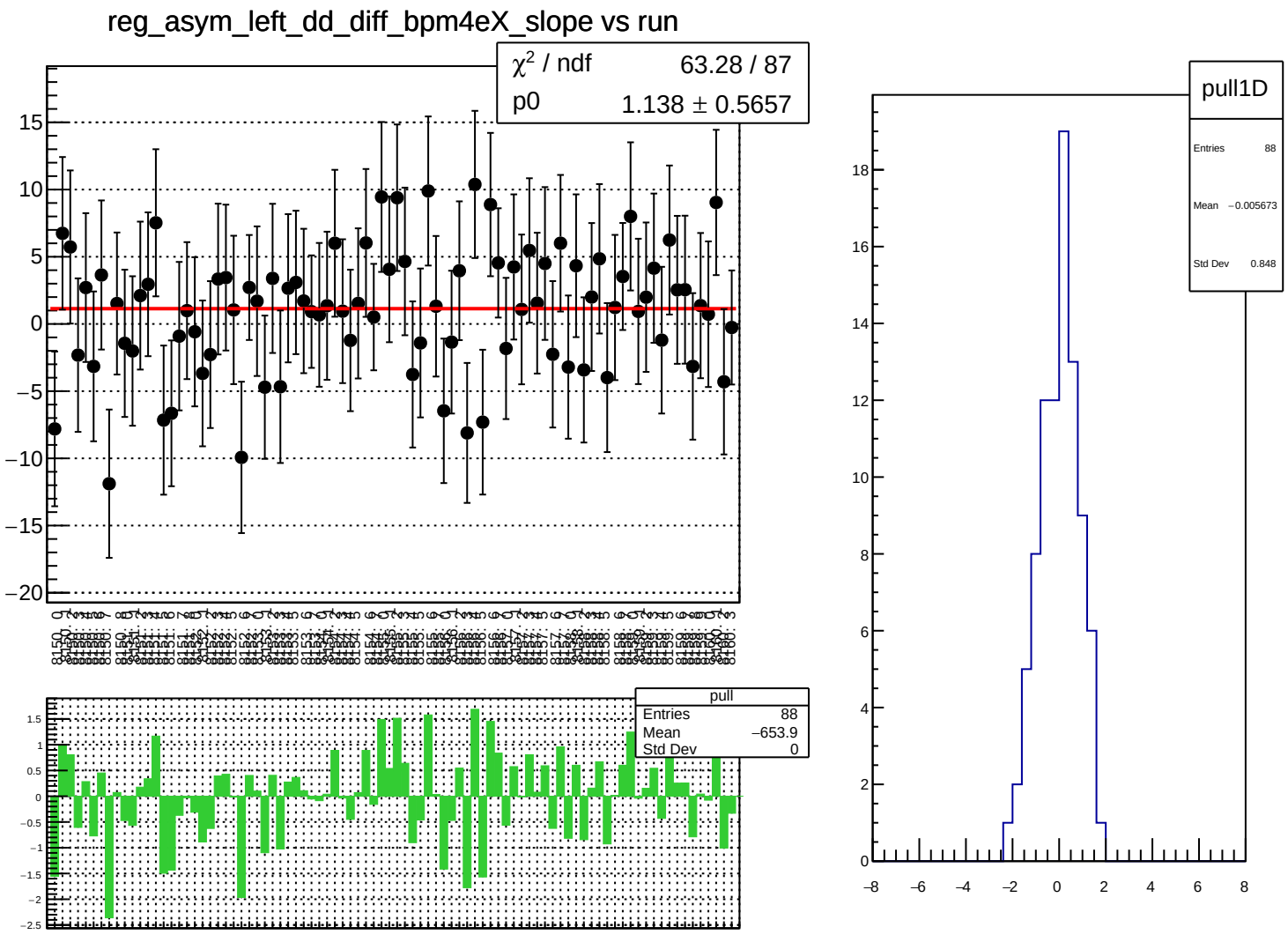

pull1D
Entries 88
Mean −0.005684
Std Dev 0.9684

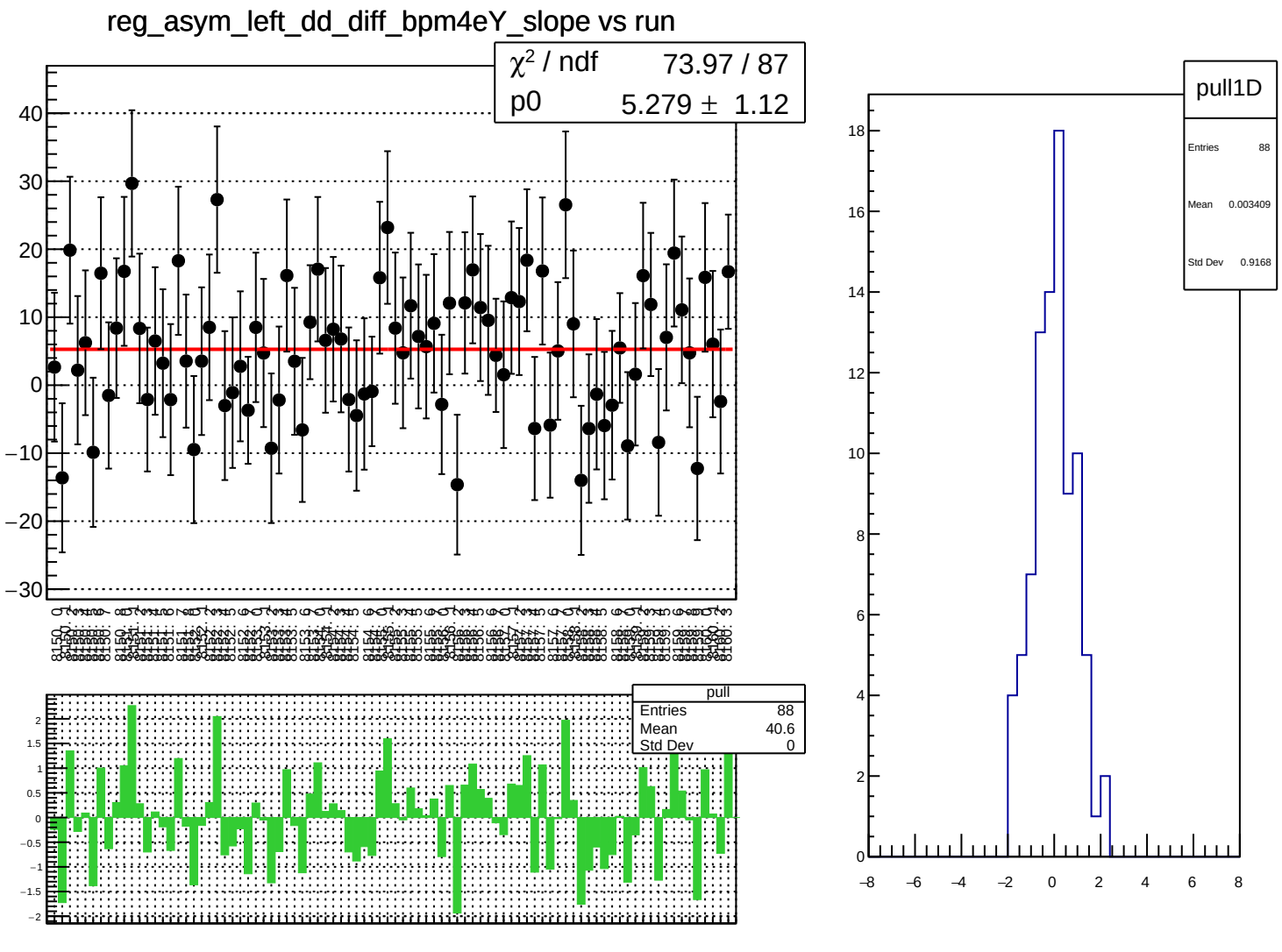

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 66.69 / 87
p0 −34.08 ± 0.5582
pull
Entries 88
Mean −920.8
Std Dev 0

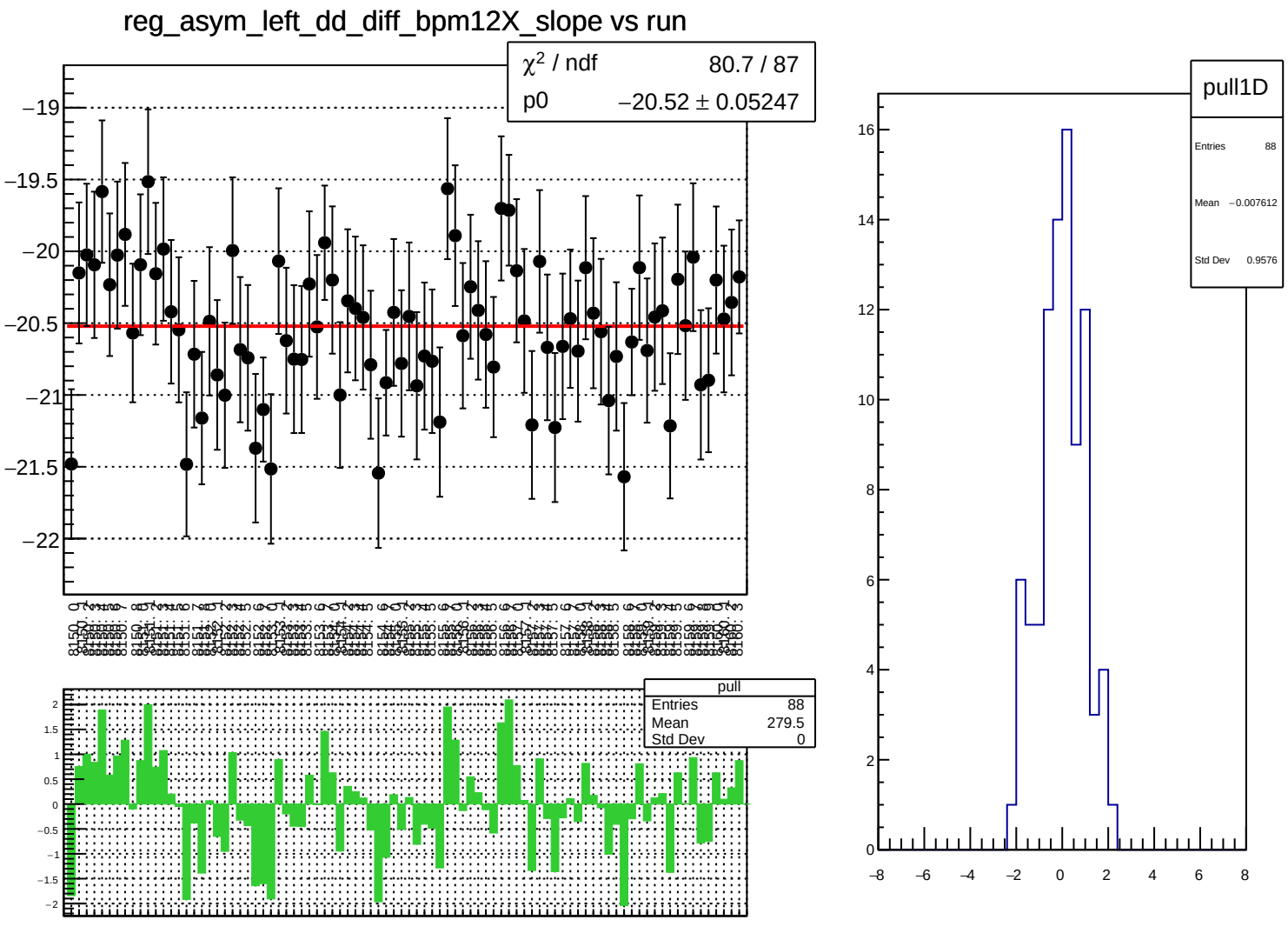

pull1D
Entries 88
Mean 0.00473
Std Dev 0.8705

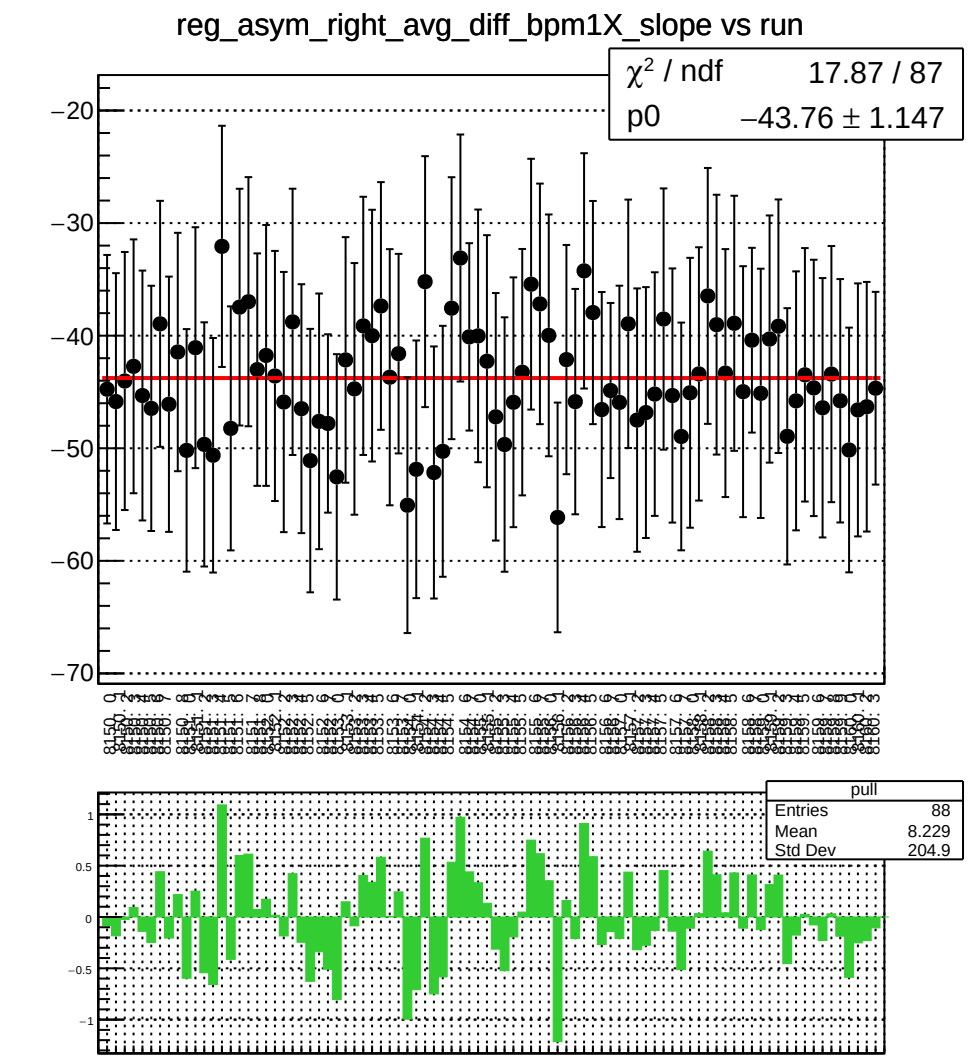

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.11 / 87
p0 5.059 ± 1.045
pull
Entries 88
Mean −6.321
Std Dev 0

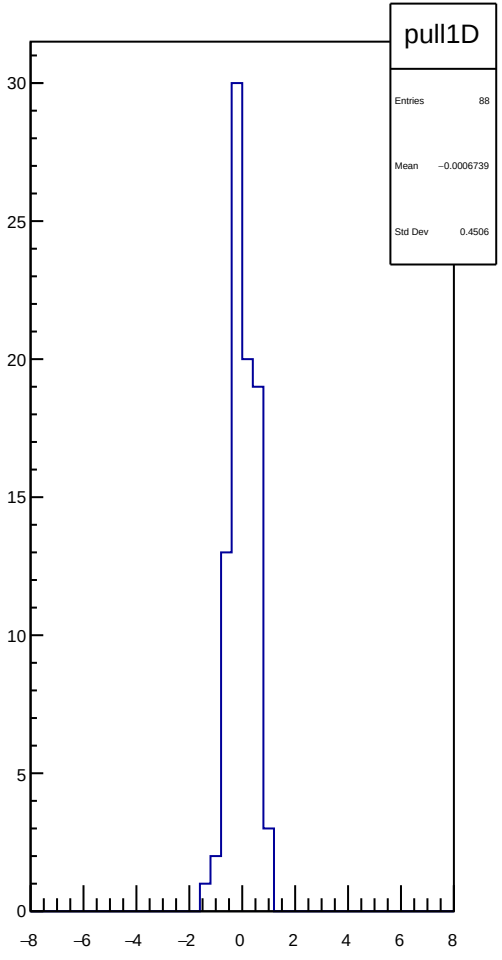

pull1D
Entries 88
Mean −0.003489
Std Dev 0.899

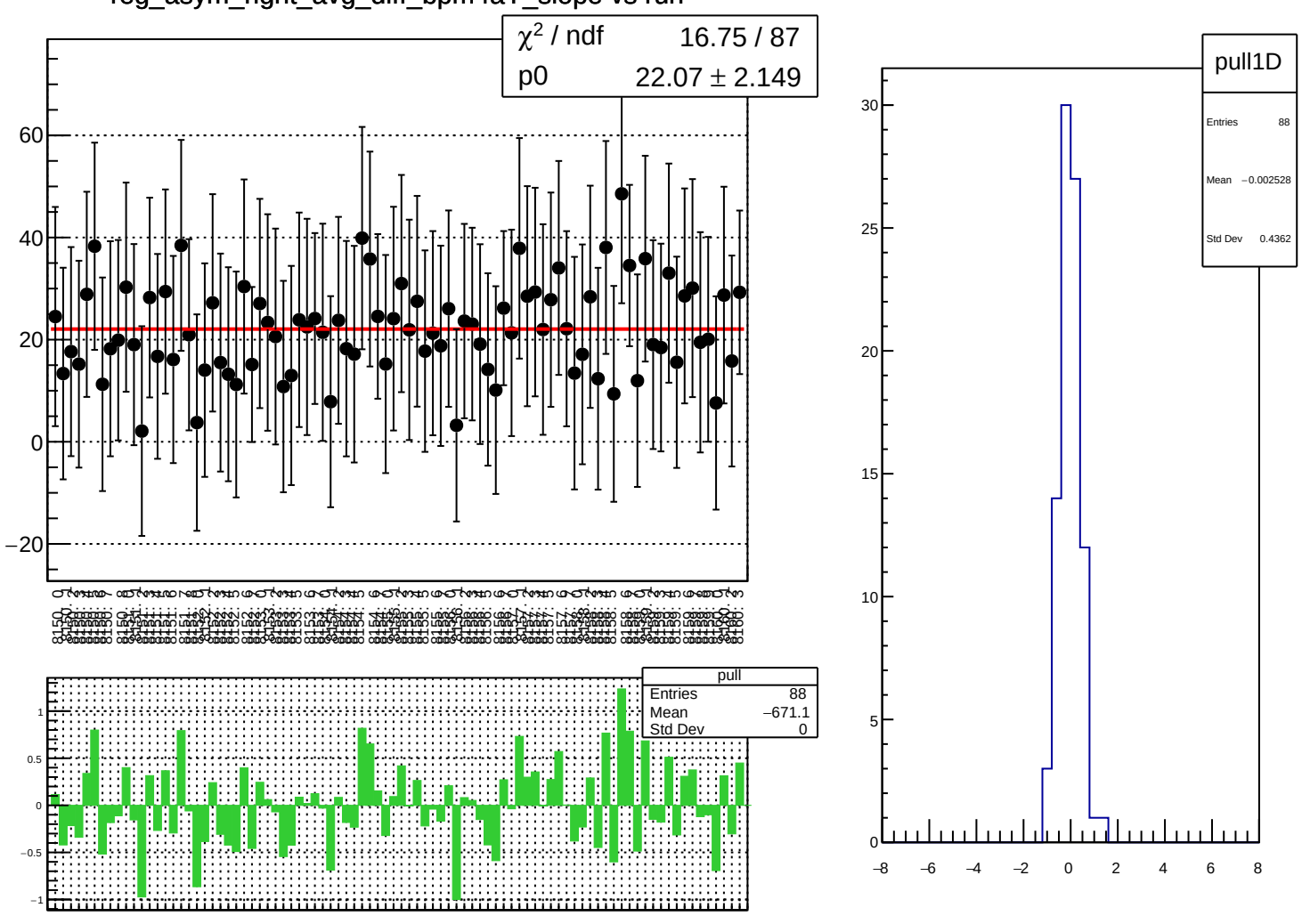

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.28 / 87
p0 1.138 ± 0.5657
pull
Entries 88
Mean −653.9
Std Dev 0
pull1D
Entries 88
Mean −0.005673
Std Dev 0.848

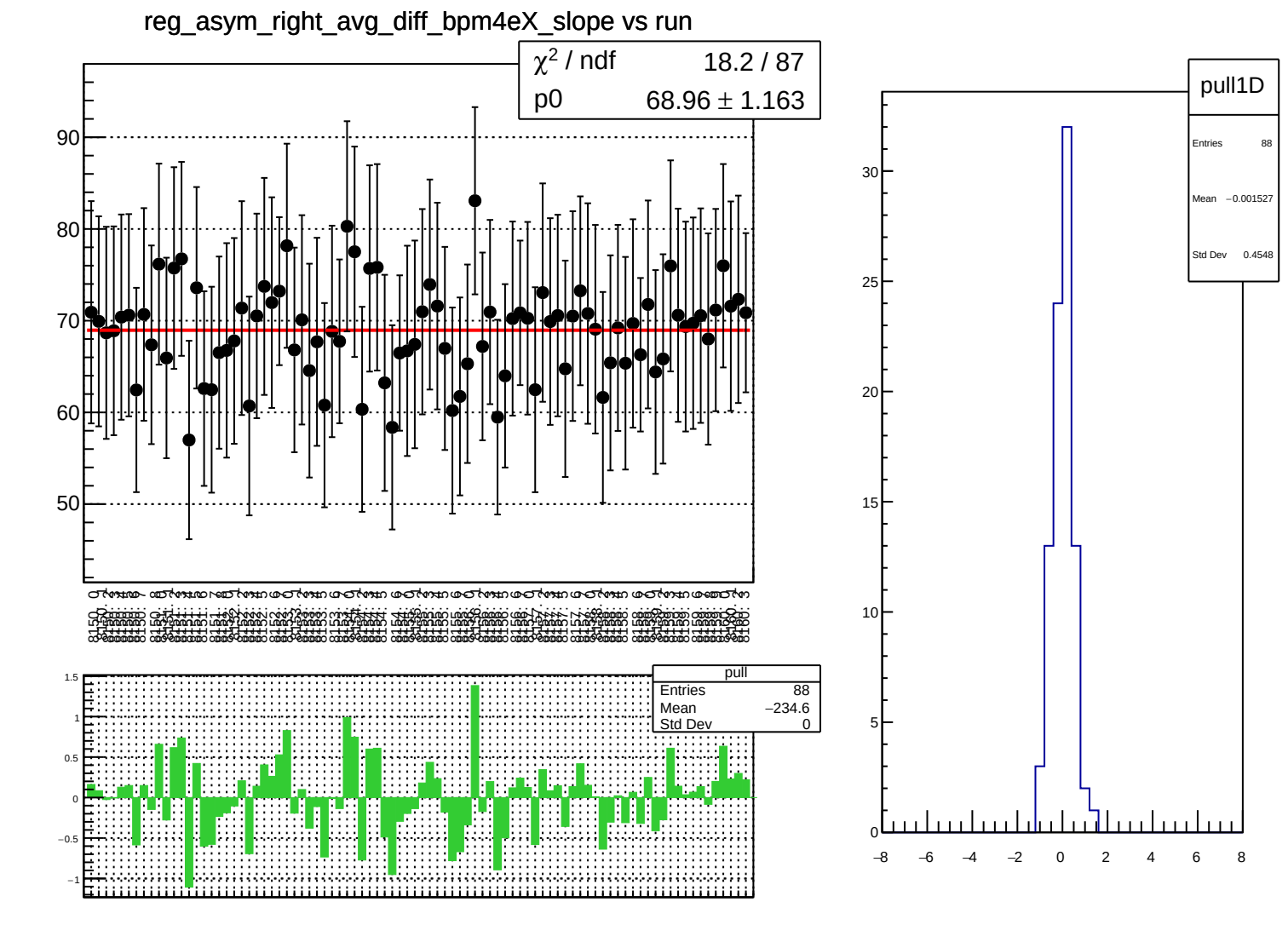

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.97 / 87
p0 5.279 ± 1.12
pull
Entries 88
Mean 40.6
Std Dev 0
pull1D
Entries 88
Mean 0.003409
Std Dev 0.9168

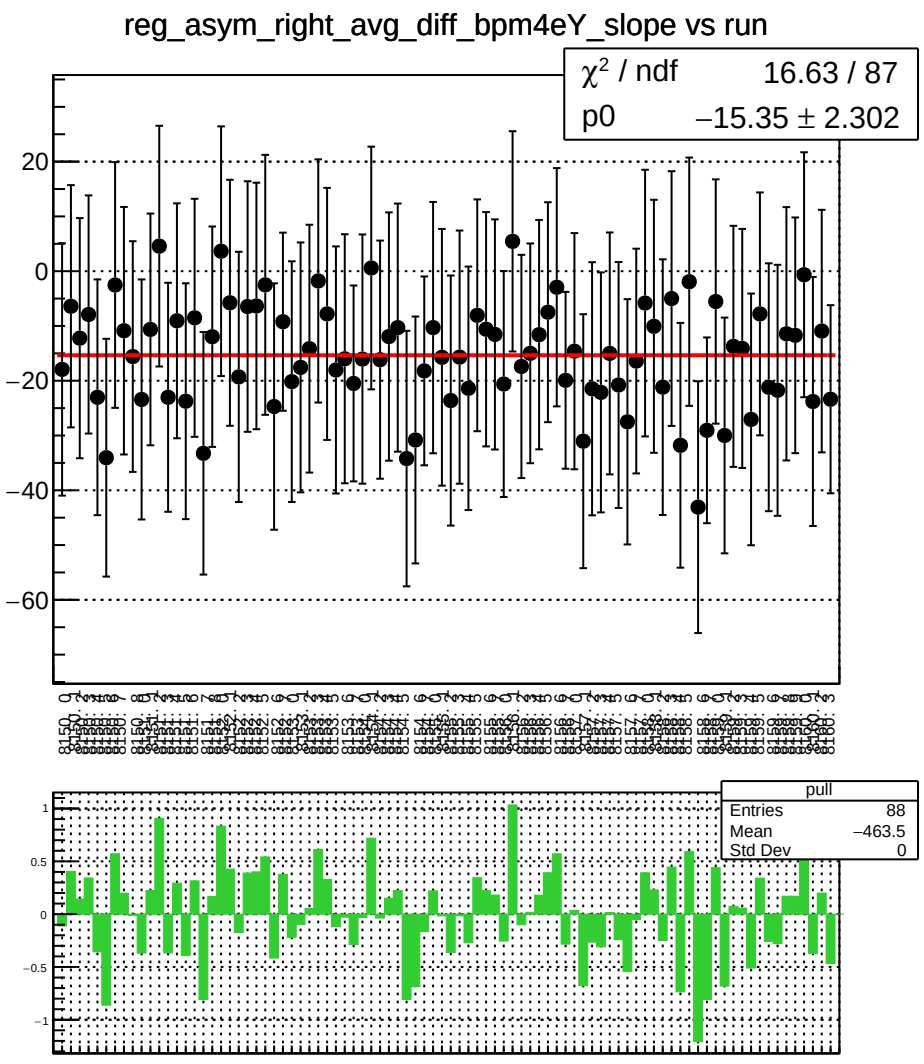

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 80.7 / 87
p0 −20.52 ± 0.05247
−19
−19.5
−20
−20.5
−21
−21.5
−22
pull
Entries 88
Mean 279.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.007612
Std Dev 0.9576
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

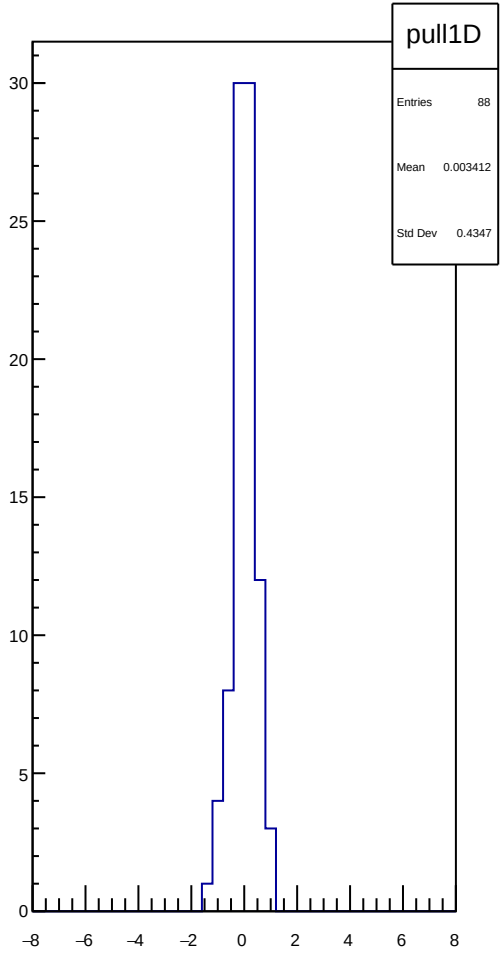

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 17.87 / 87
p0 −43.76 ± 1.147
pull
Entries 88
Mean 8.229
Std Dev 204.9

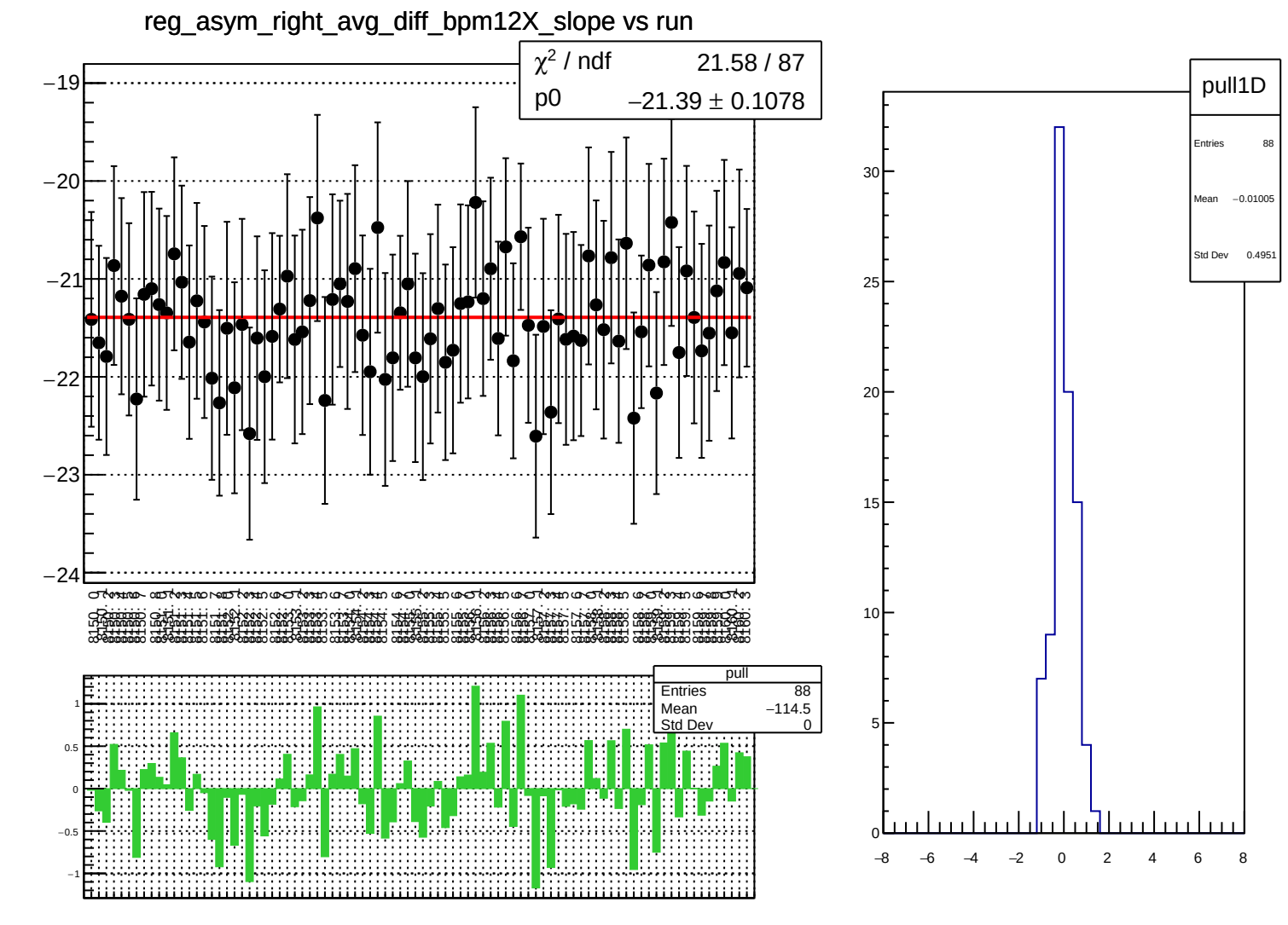

pull1D
Entries 88
Mean −0.0006739
Std Dev 0.4506

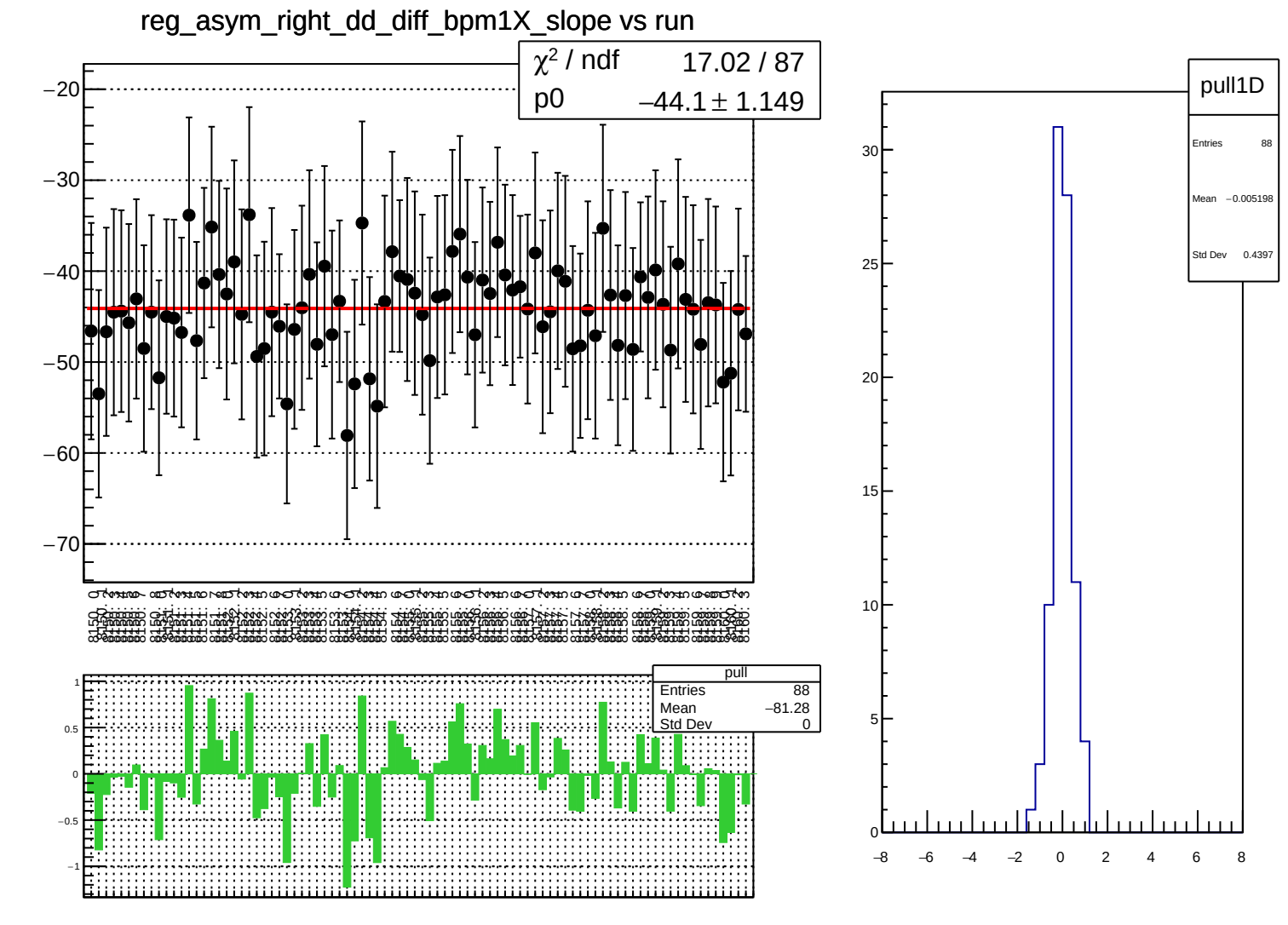

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.75 / 87
p0 22.07 ± 2.149
pull
Entries 88
Mean −671.1
Std Dev 0
pull1D
Entries 88
Mean −0.002528
Std Dev 0.4362

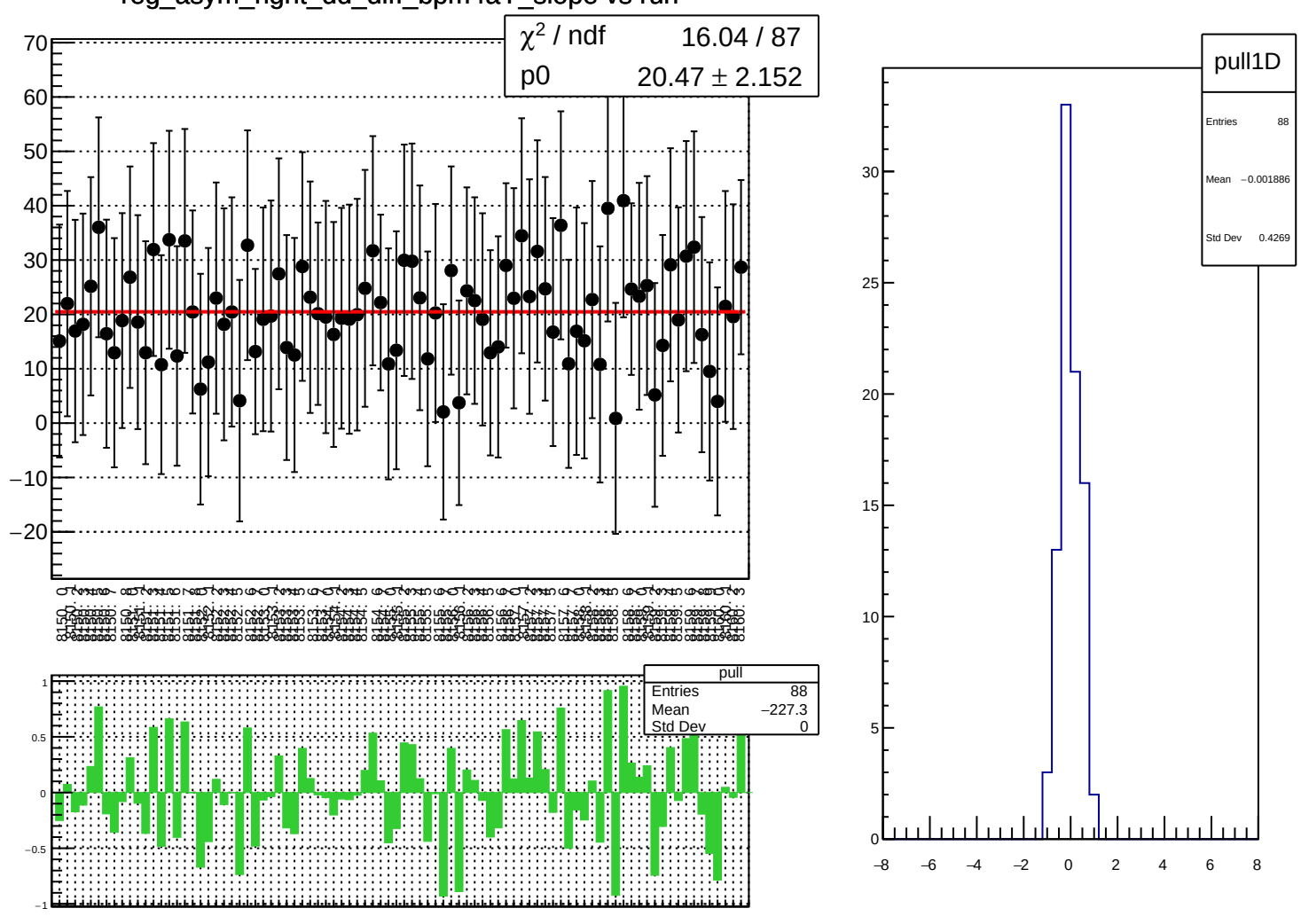

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.2 / 87
p0 68.96 ± 1.163
90
80
70
60
50
pull
Entries 88
Mean −234.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.001527
Std Dev 0.4548
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

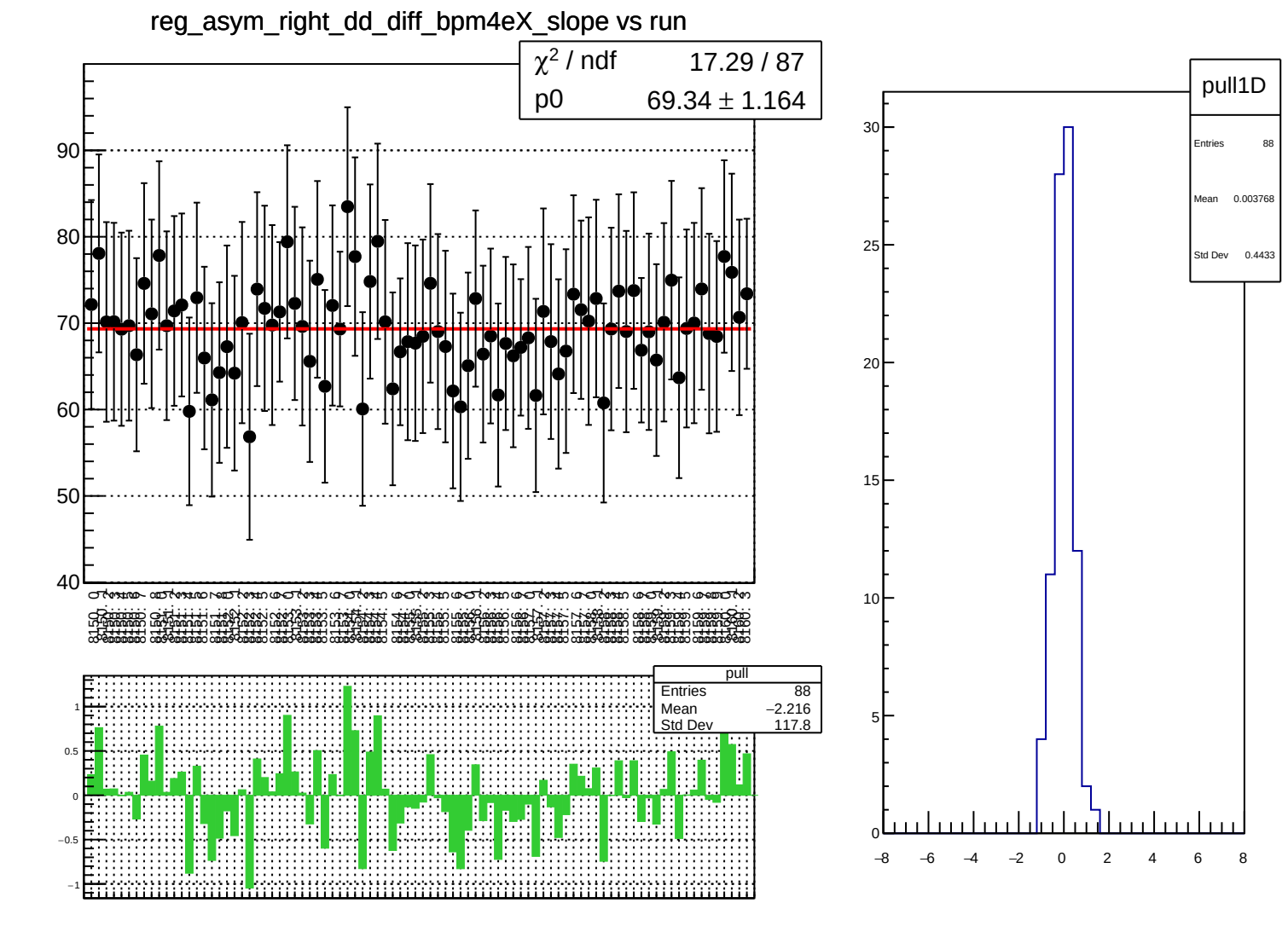

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.63 / 87
p0 −15.35 ± 2.302
20
0
−20
−40
−60
pull
Entries 88
Mean −463.5
Std Dev 0
1
0.5
0
−0.5
−1

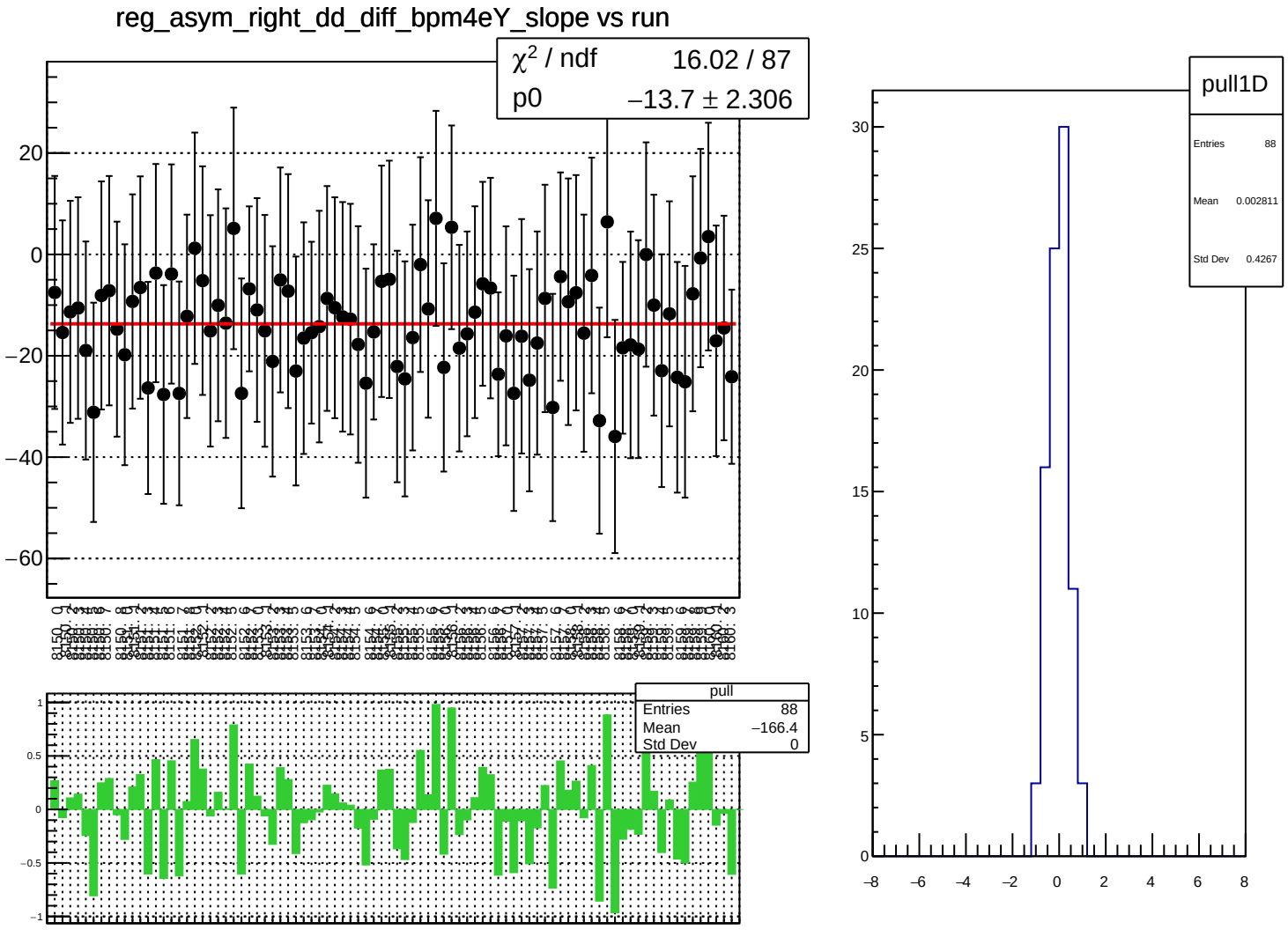

pull1D
Entries 88
Mean 0.003412
Std Dev 0.4347
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

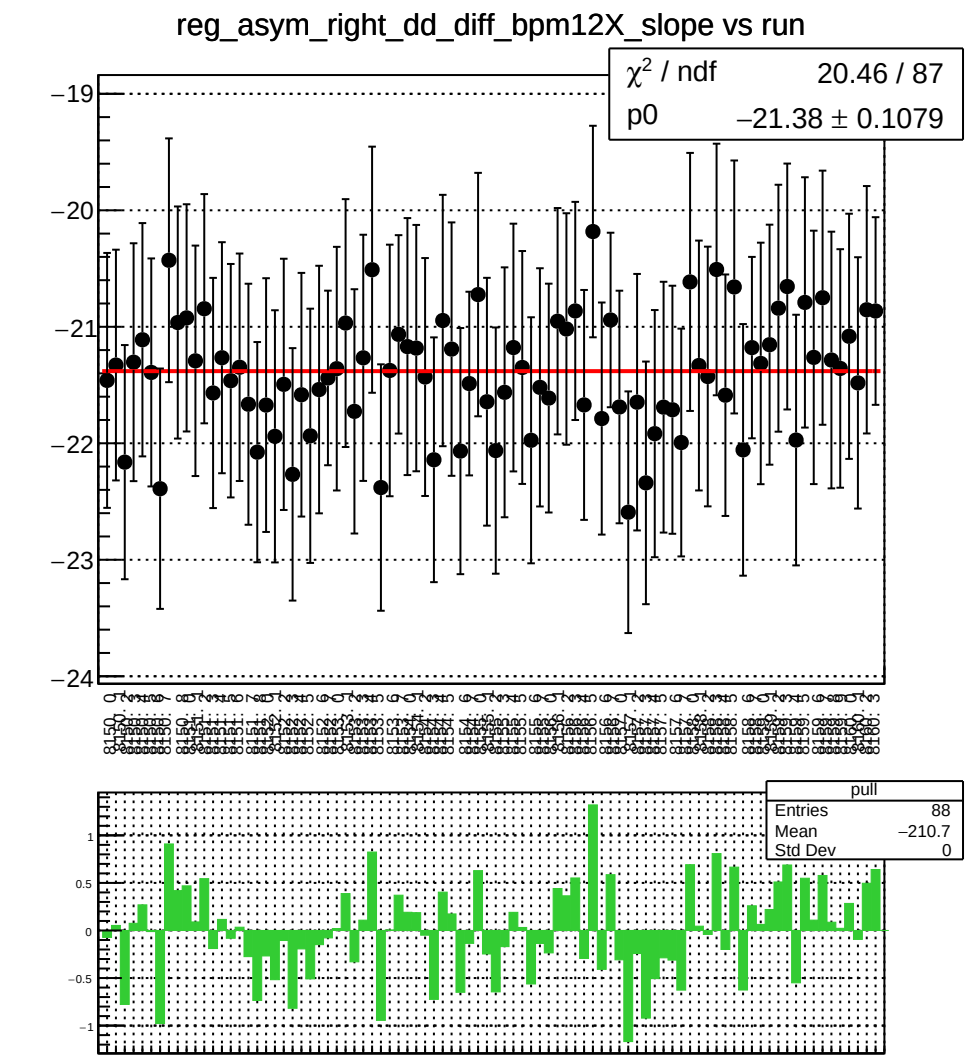

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 21.58 / 87
p0 −21.39 ± 0.1078
pull
Entries 88
Mean −114.5
Std Dev 0
pull1D
Entries 88
Mean −0.01005
Std Dev 0.4951

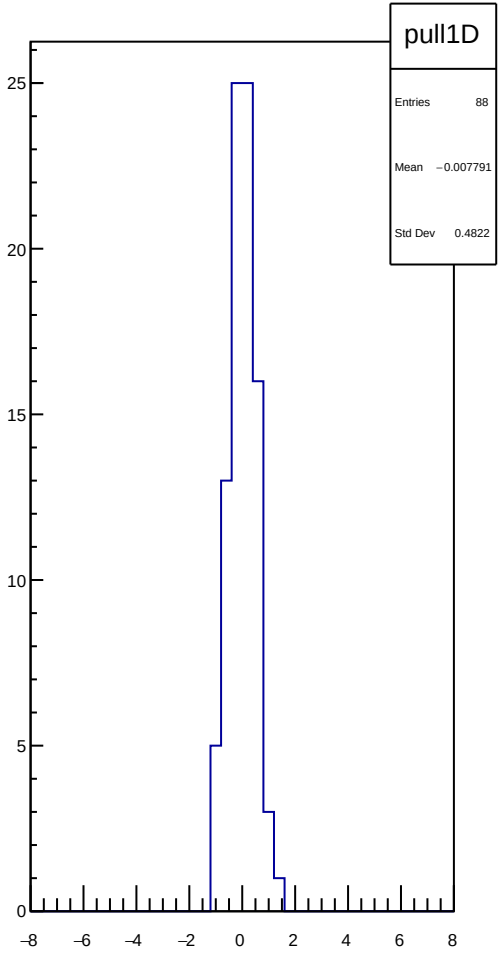

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 17.02 / 87
p0 −44.1 ± 1.149
pull
Entries 88
Mean −81.28
Std Dev 0
pull1D
Entries 88
Mean −0.005198
Std Dev 0.4397

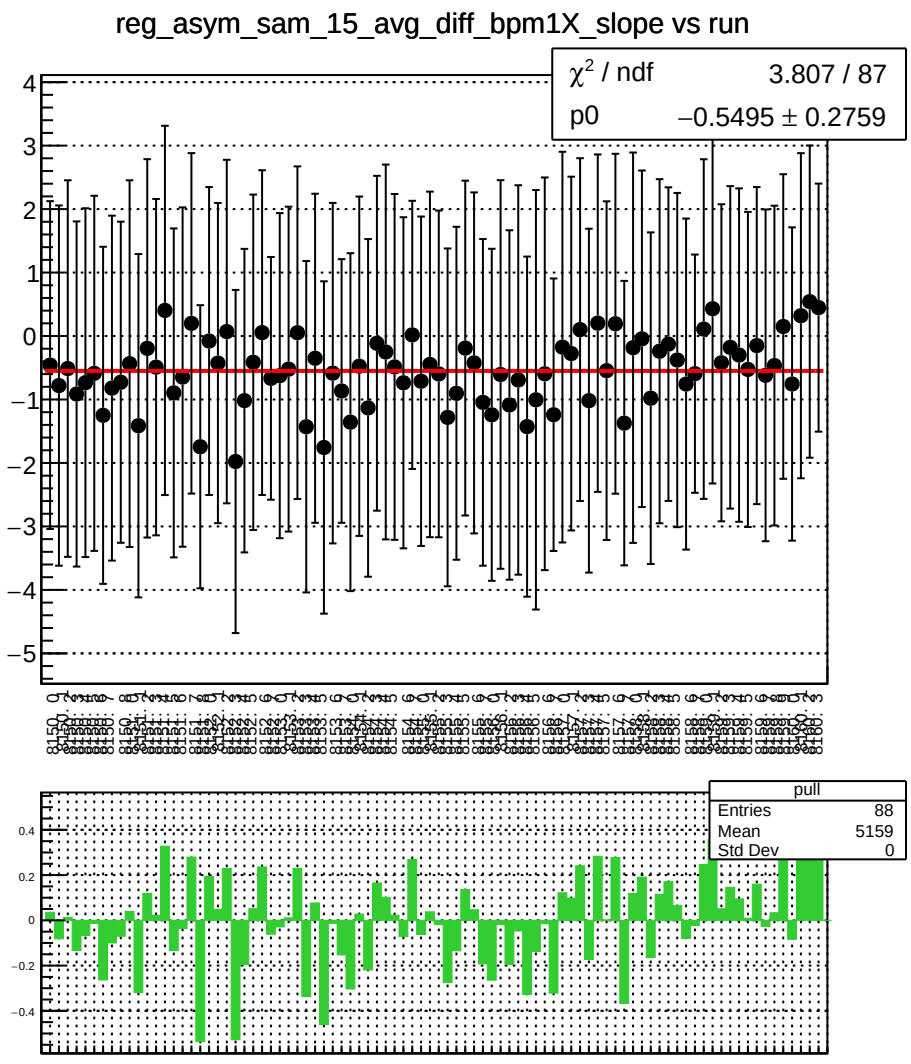

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 16.04 / 87
p0 20.47 ± 2.152
pull
Entries 88
Mean −227.3
Std Dev 0
pull1D
Entries 88
Mean −0.001886
Std Dev 0.4269

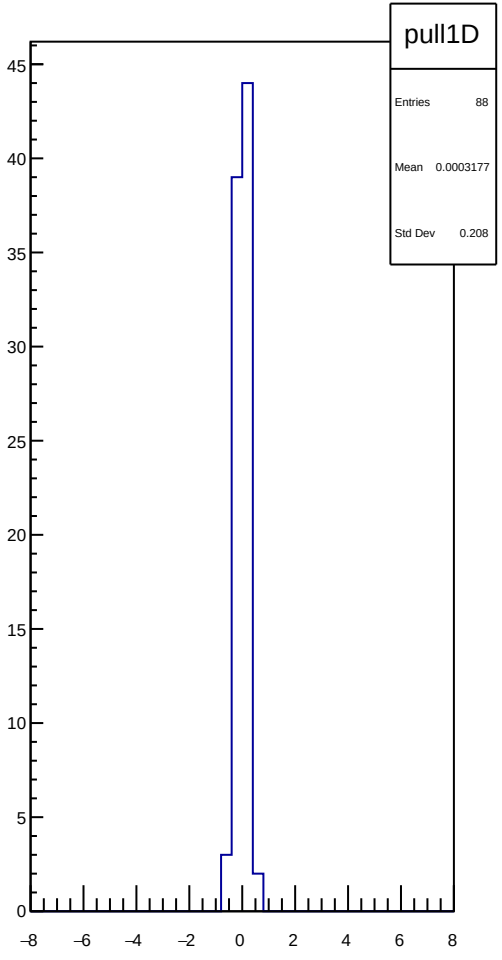

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.29 / 87
p0 69.34 ± 1.164
pull
Entries 88
Mean −2.216
Std Dev 117.8
pull1D
Entries 88
Mean 0.003768
Std Dev 0.4433

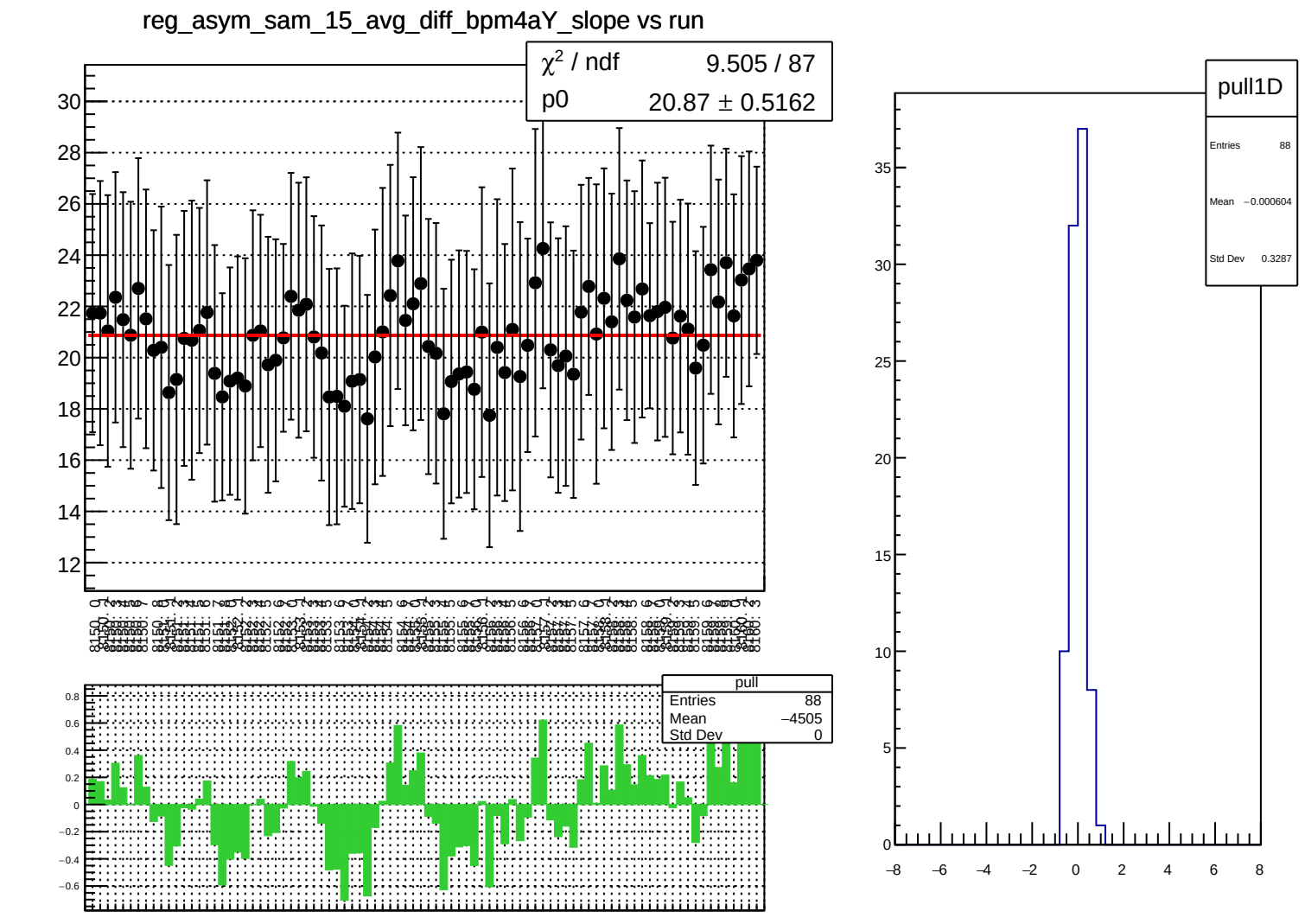

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.02 / 87
p0 −13.7 ± 2.306
20
0
−20
−40
−60
pull
Entries 88
Mean −166.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.002811
Std Dev 0.4267
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

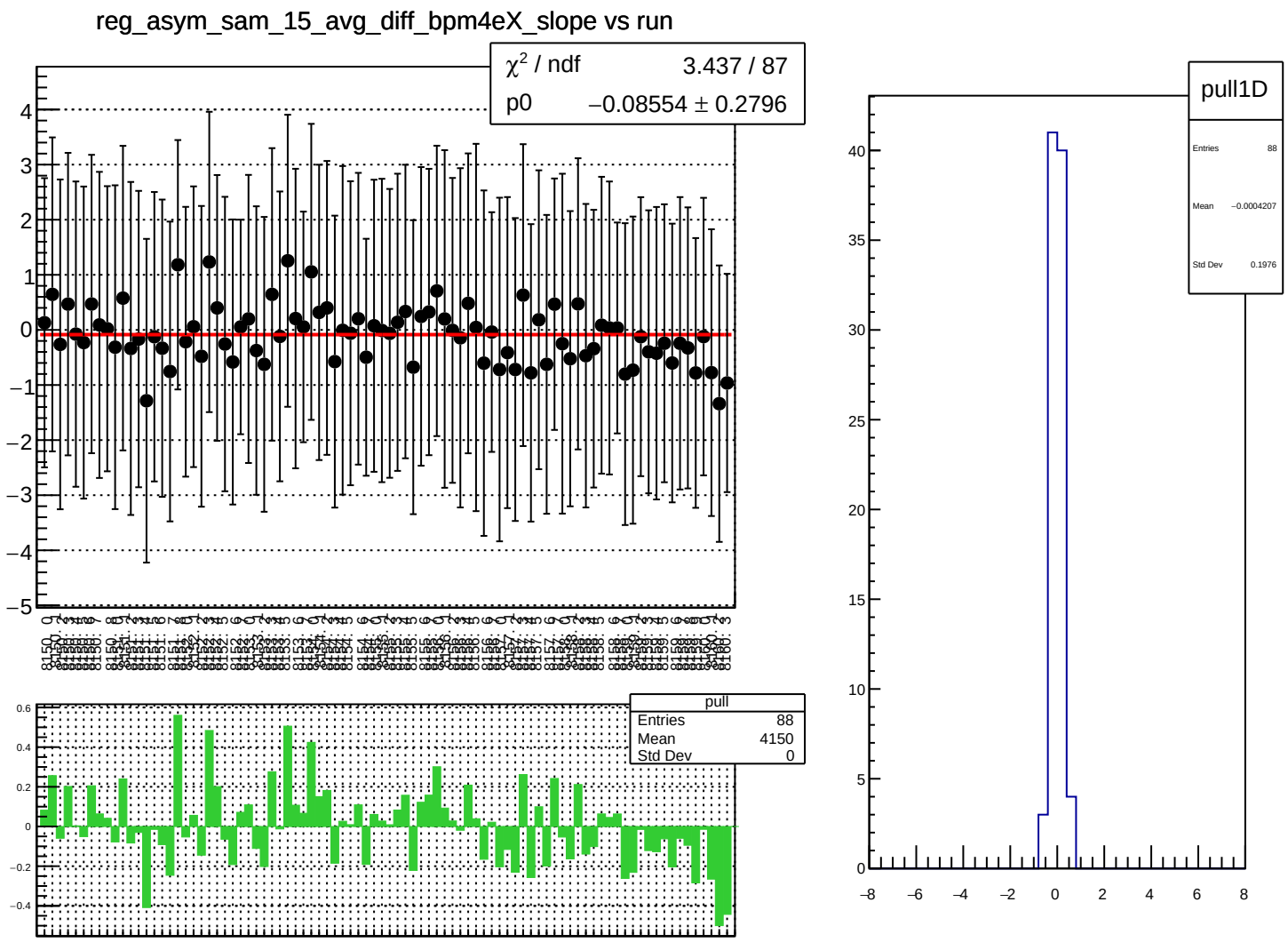

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 20.46 / 87
p0 −21.38 ± 0.1079
pull
Entries 88
Mean −210.7
Std Dev 0

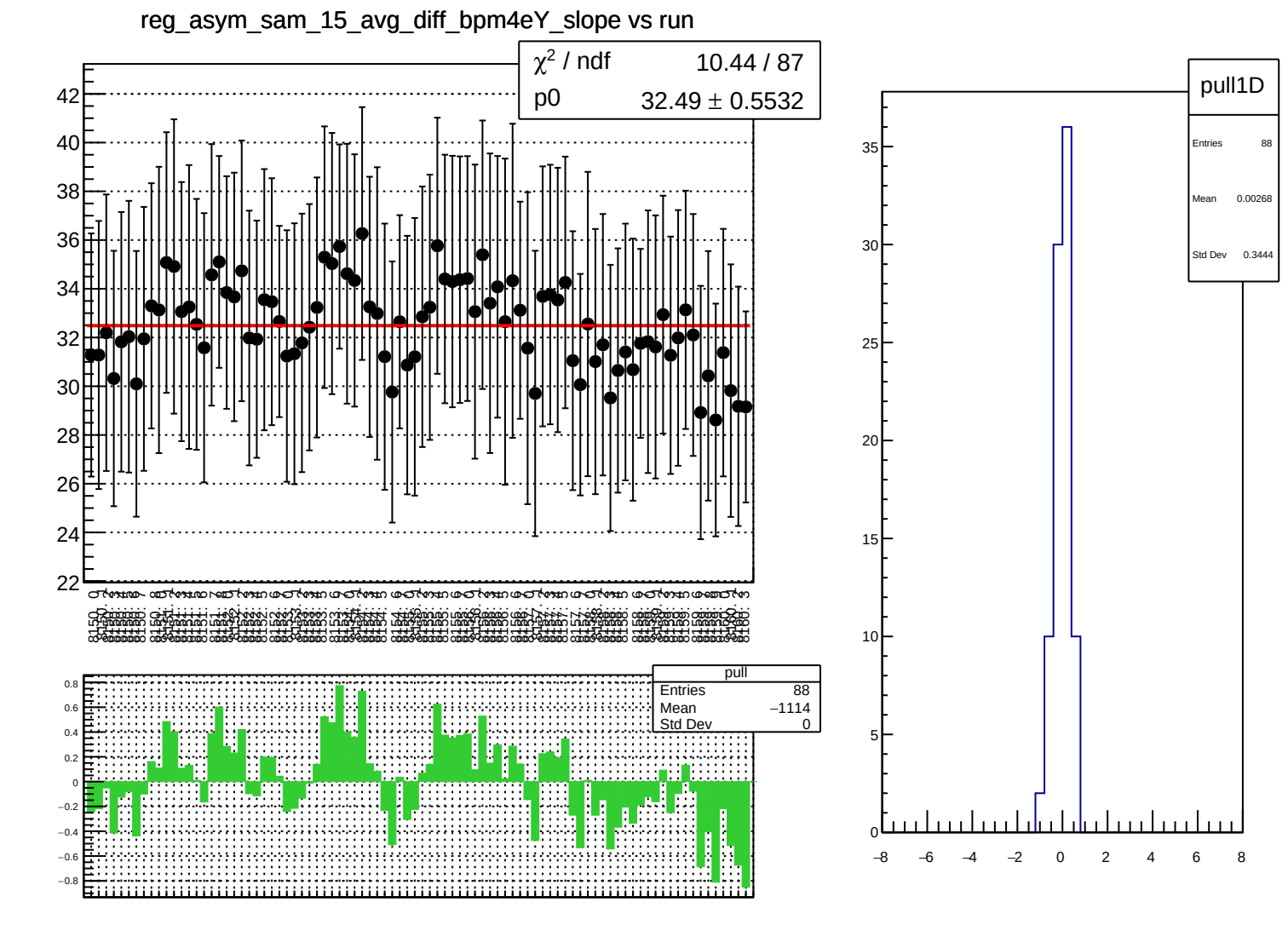

pull1D
Entries 88
Mean −0.007791
Std Dev 0.4822

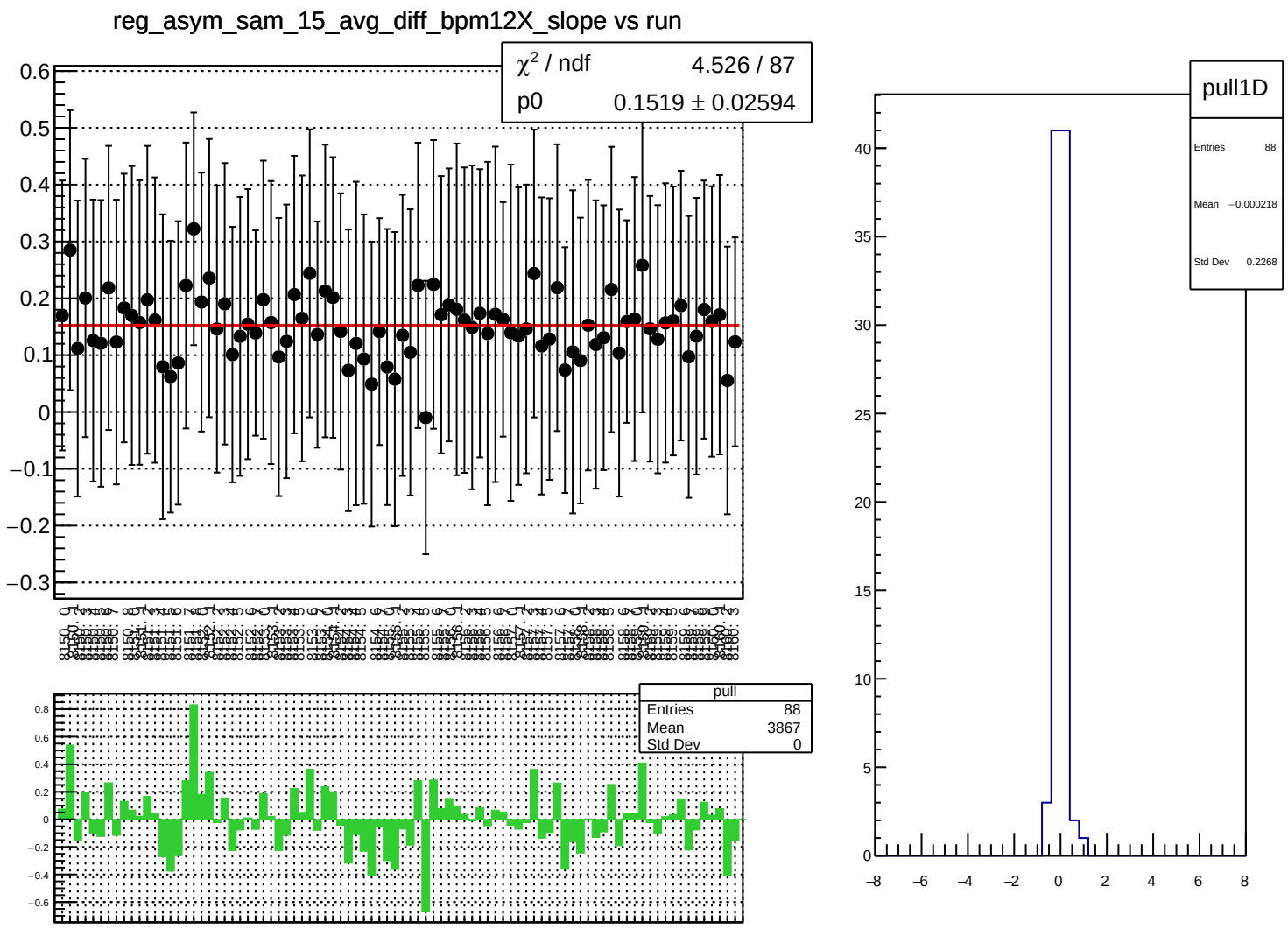

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 3.807 / 87
p0 −0.5495 ± 0.2759
pull
Entries 88
Mean 5159
Std Dev 0

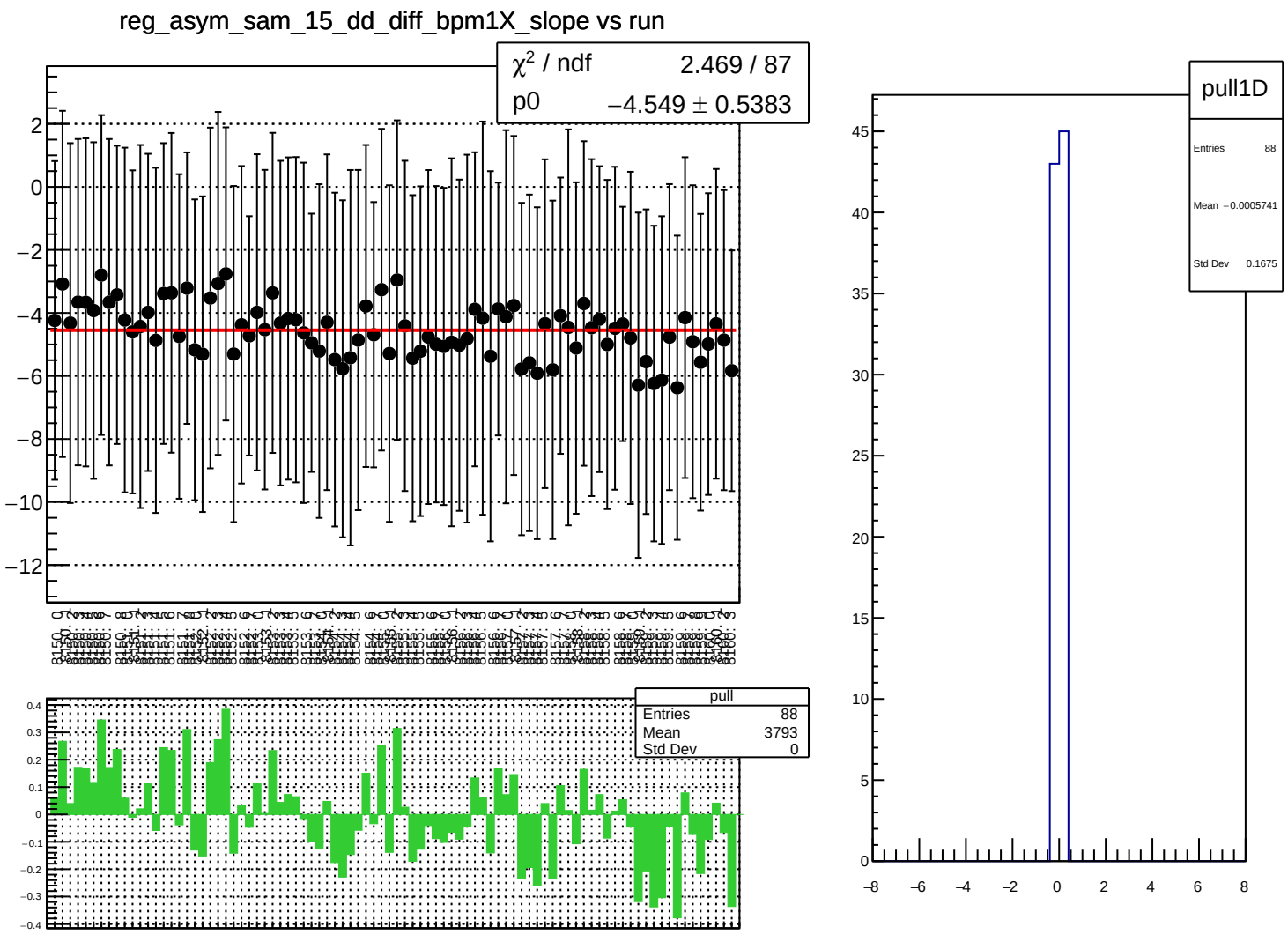

pull1D
Entries 88
Mean 0.0003177
Std Dev 0.208

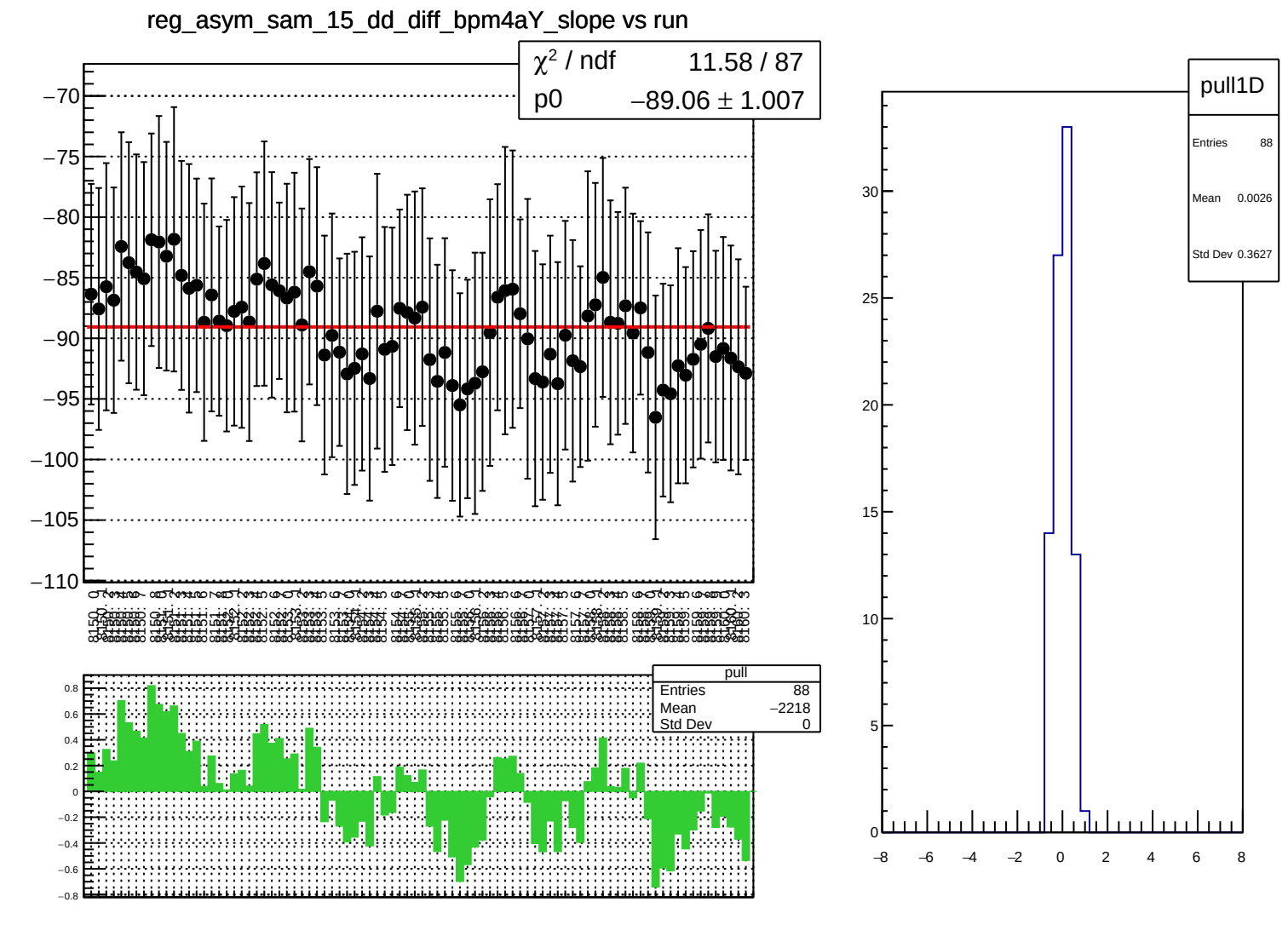

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.505 / 87
p0 20.87 ± 0.5162
pull
Entries 88
Mean −4505
Std Dev 0
pull1D
Entries 88
Mean −0.000604
Std Dev 0.3287

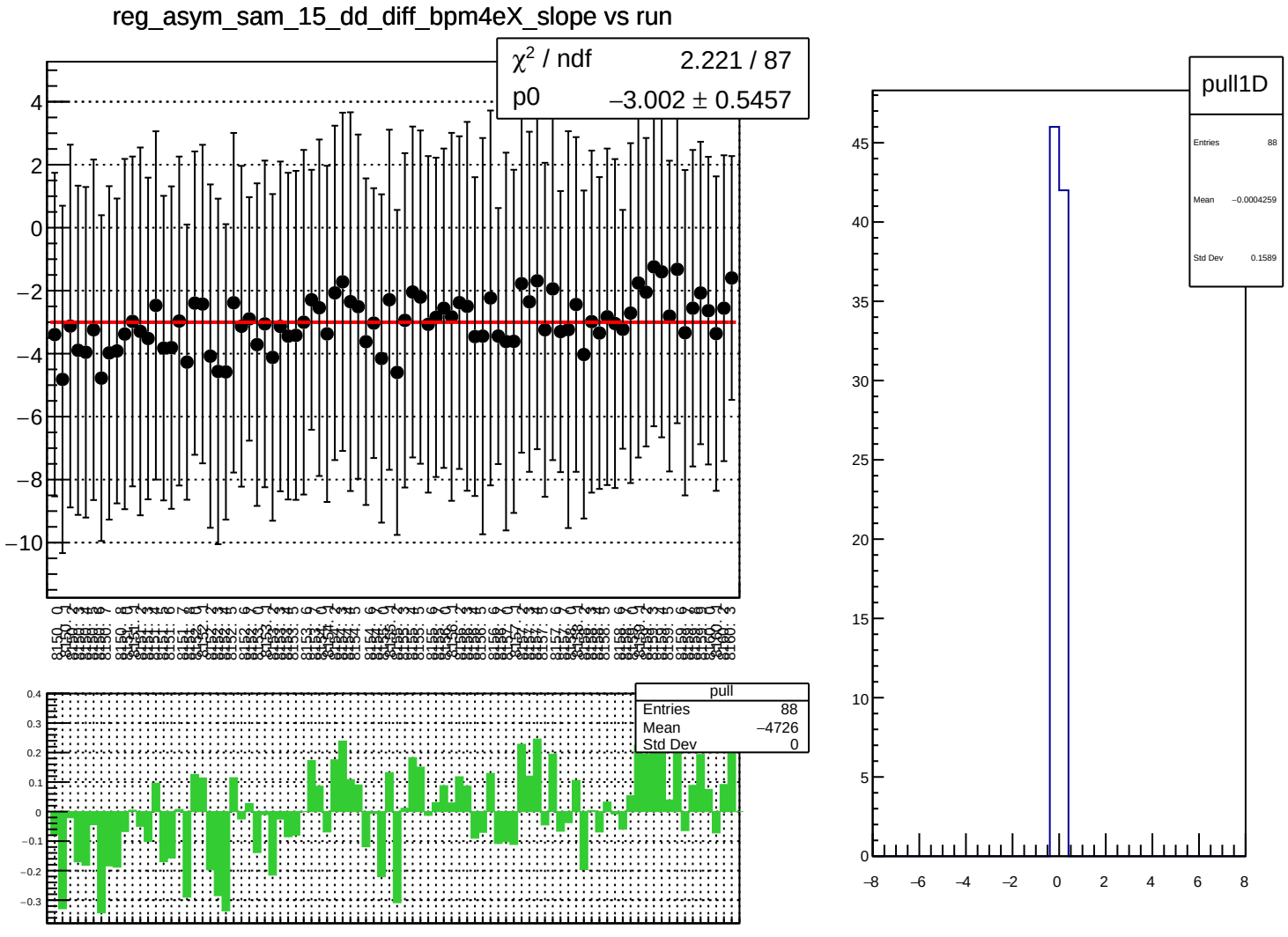

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.437 / 87
p0 −0.08554 ± 0.2796
pull
Entries 88
Mean 4150
Std Dev 0
pull1D
Entries 88
Mean −0.0004207
Std Dev 0.1976

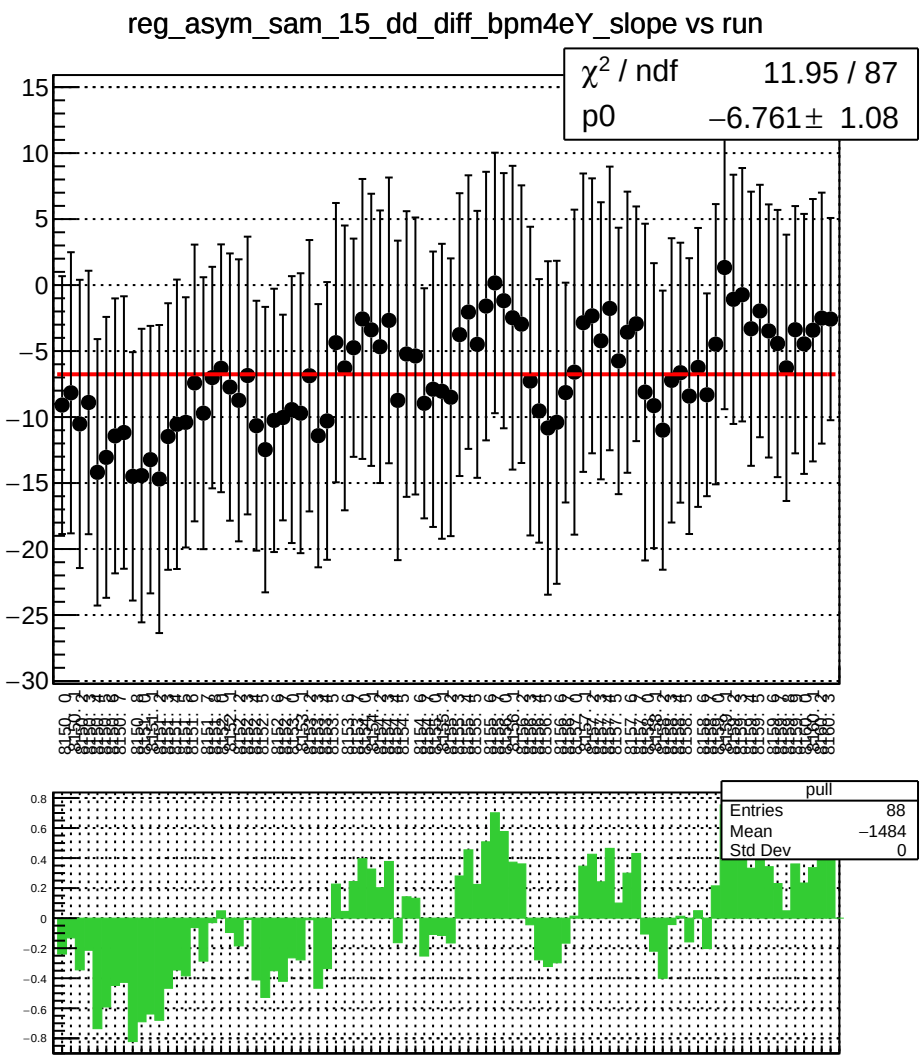

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.44 / 87
p0 32.49 ± 0.5532
pull
Entries 88
Mean −1114
Std Dev 0
pull1D
Entries 88
Mean 0.00268
Std Dev 0.3444

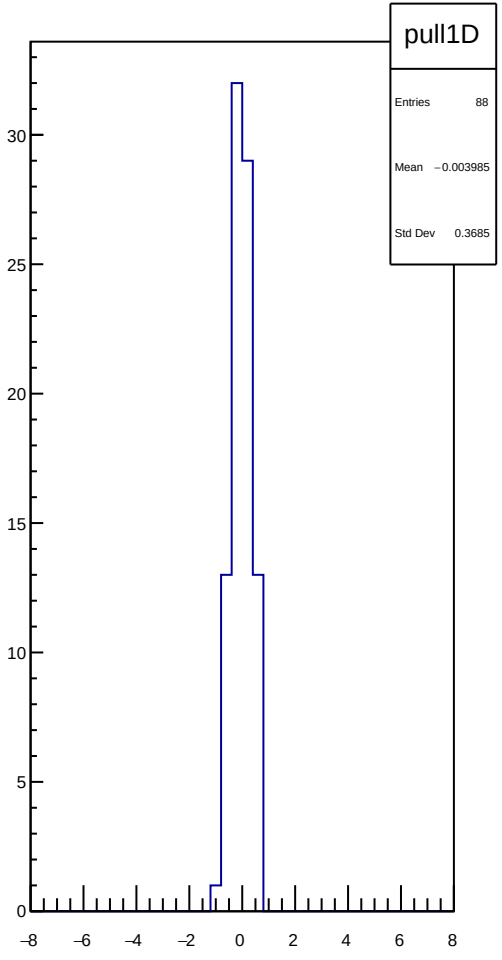

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 4.526 / 87
p0 0.1519 ± 0.02594
pull
Entries 88
Mean 3867
Std Dev 0
pull1D
Entries 88
Mean −0.000218
Std Dev 0.2268

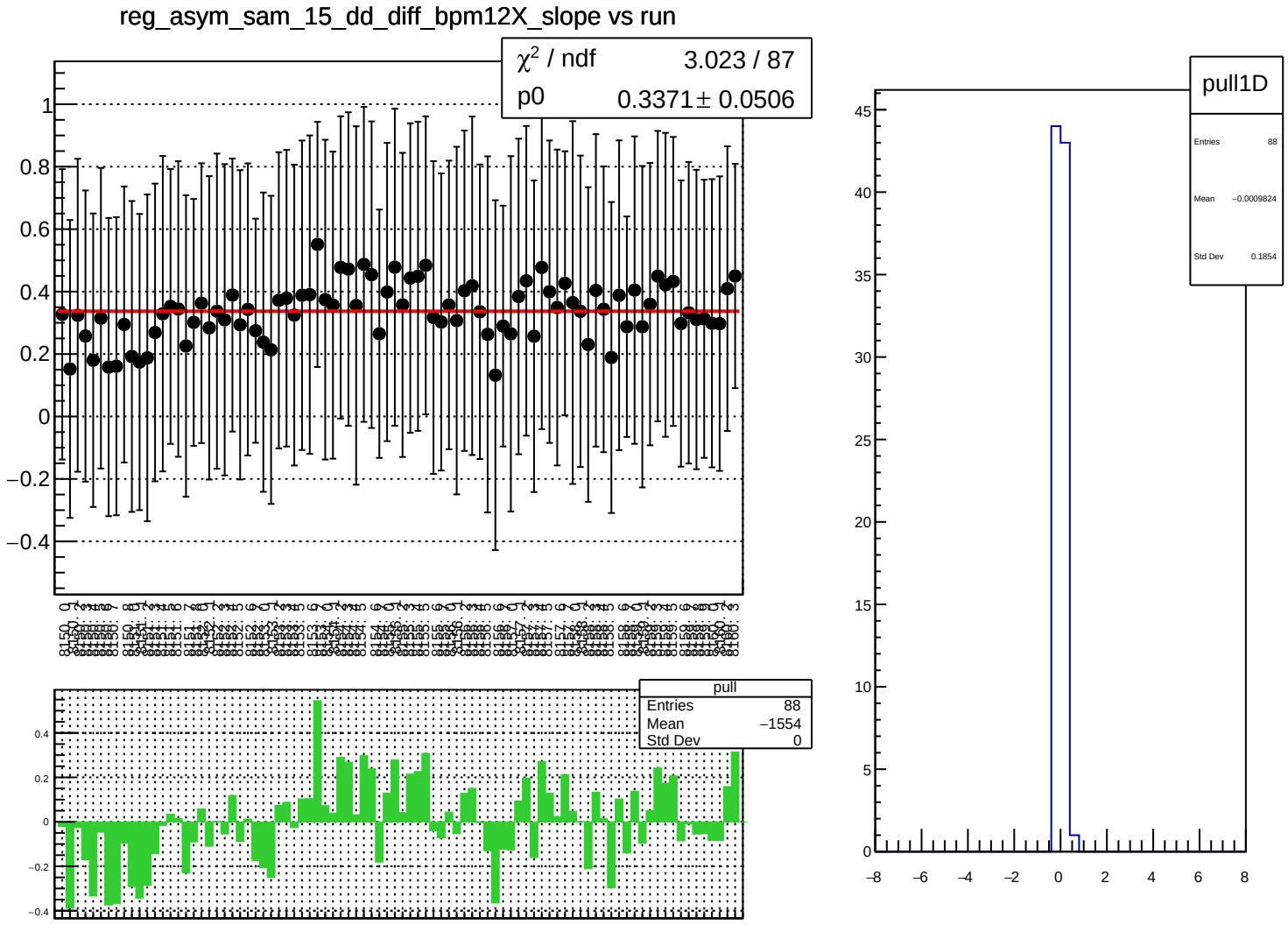

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 2.469 / 87
p0 −4.549 ± 0.5383
pull
Entries 88
Mean 3793
Std Dev 0
pull1D
Entries 88
Mean −0.0005741
Std Dev 0.1675

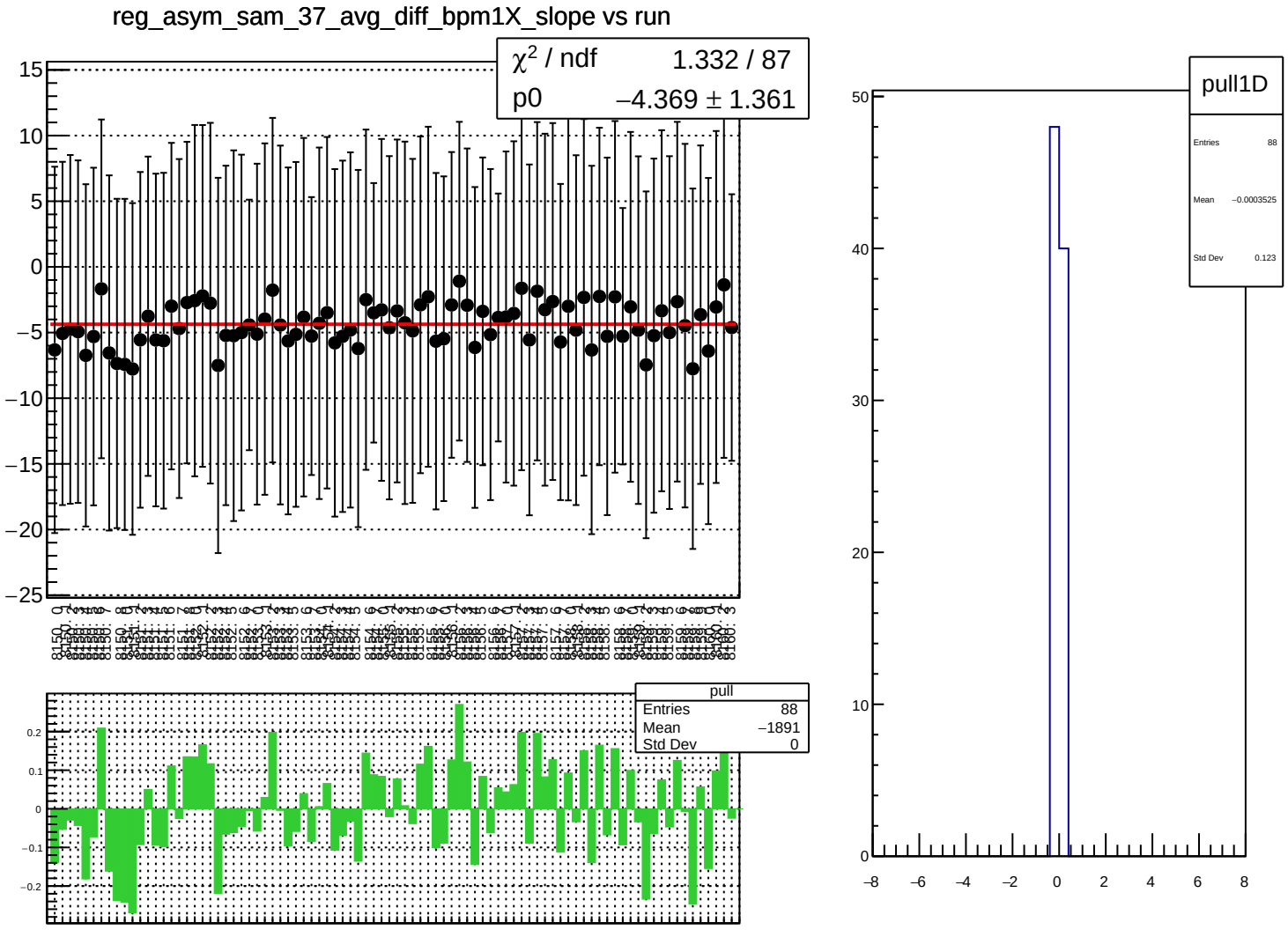

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.58 / 87
p0 −89.06 ± 1.007
pull
Entries 88
Mean −2218
Std Dev 0
pull1D
Entries 88
Mean 0.0026
Std Dev 0.3627

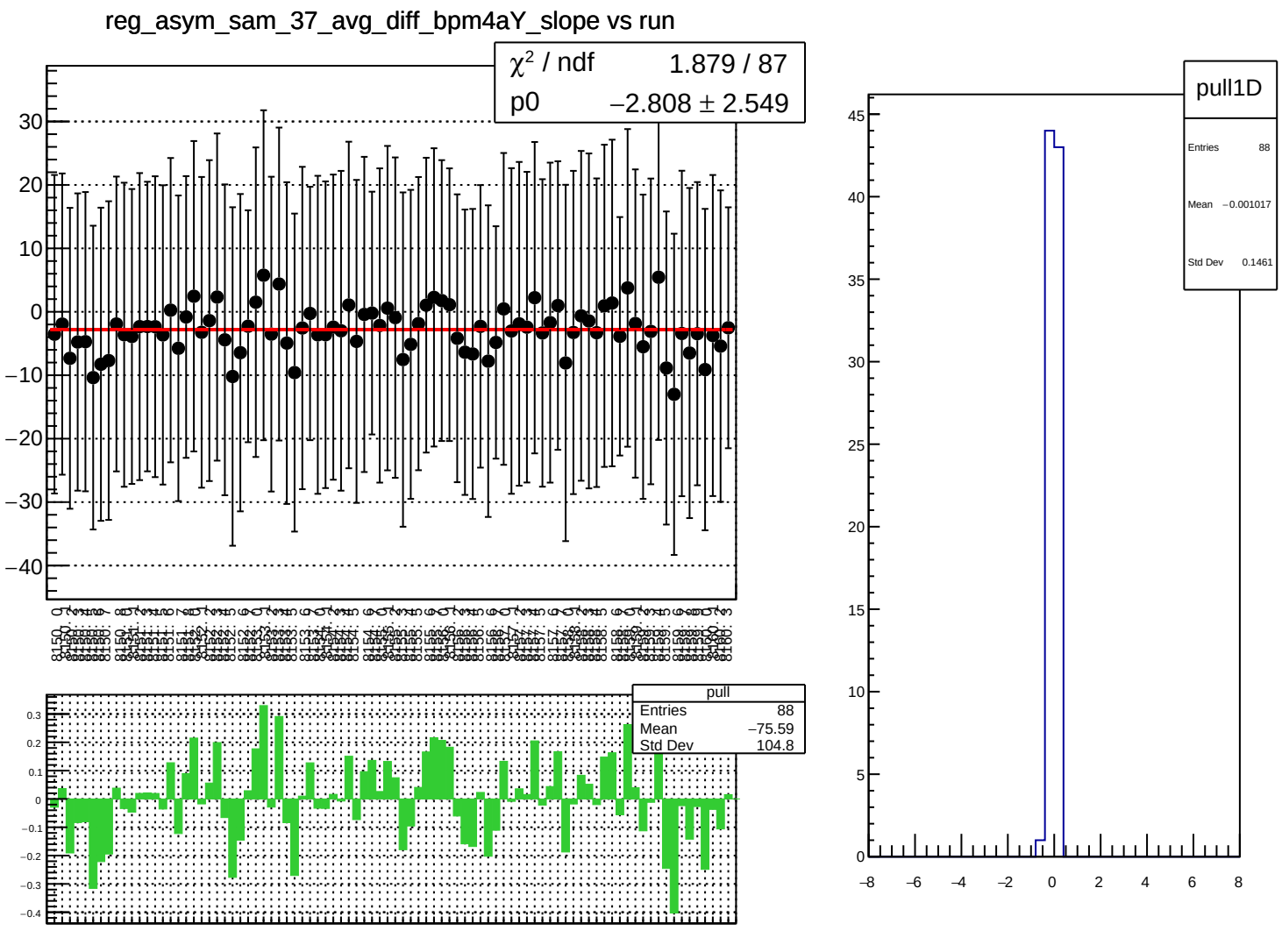

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.221 / 87
p0 −3.002 ± 0.5457
pull
Entries 88
Mean −4726
Std Dev 0
pull1D
Entries 88
Mean −0.0004259
Std Dev 0.1589

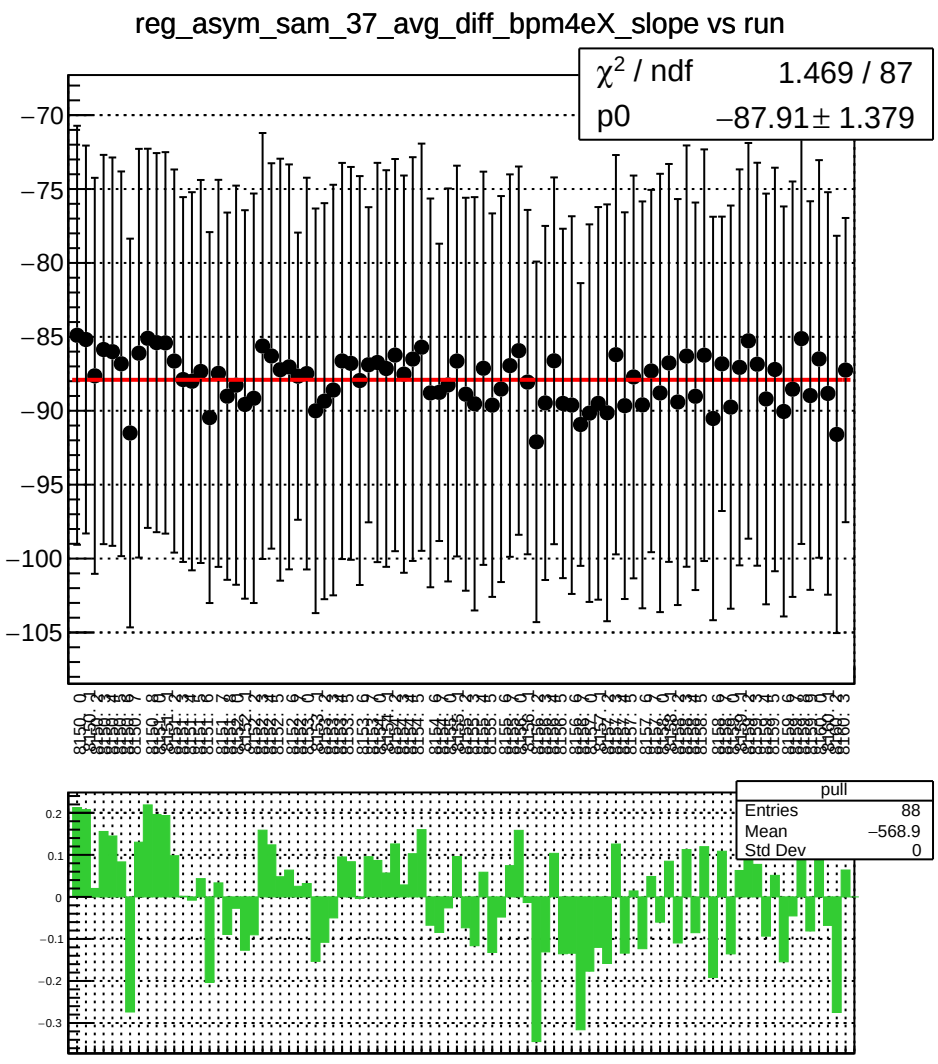

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.95 / 87
p0 −6.761 ± 1.08
pull
Entries 88
Mean −1484
Std Dev 0

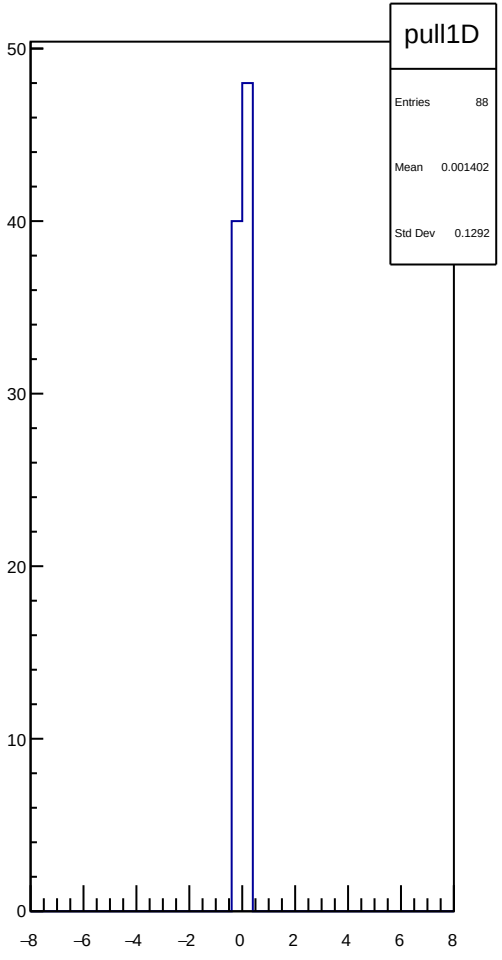

pull1D
Entries 88
Mean −0.003985
Std Dev 0.3685

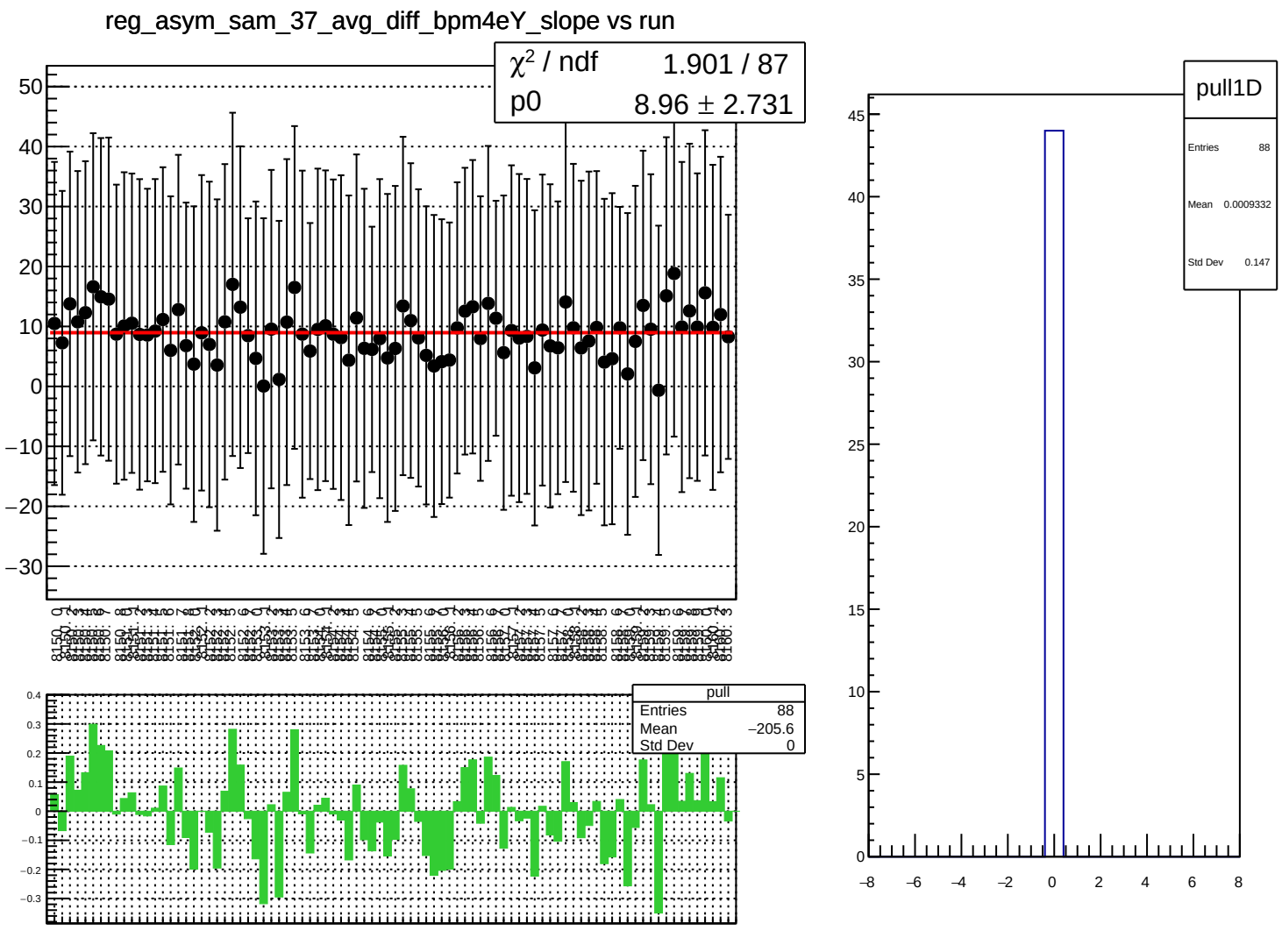

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 3.023 / 87
p0 0.3371± 0.0506
pull
Entries 88
Mean −1554
Std Dev 0
pull1D
Entries 88
Mean −0.0009824
Std Dev 0.1854

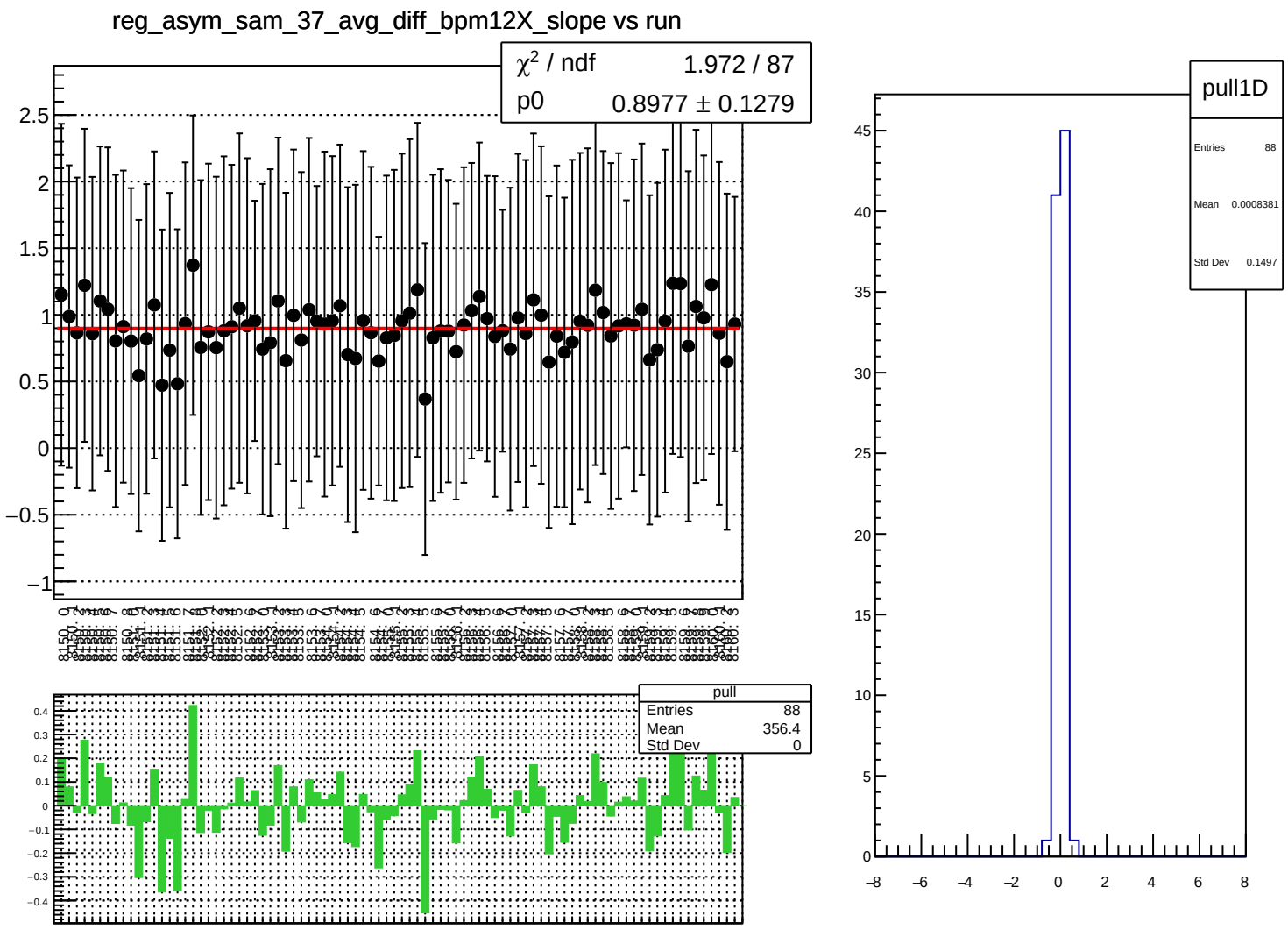

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 1.332 / 87
p0 −4.369 ± 1.361
pull
Entries 88
Mean −1891
Std Dev 0
pull1D
Entries 88
Mean −0.0003525
Std Dev 0.123

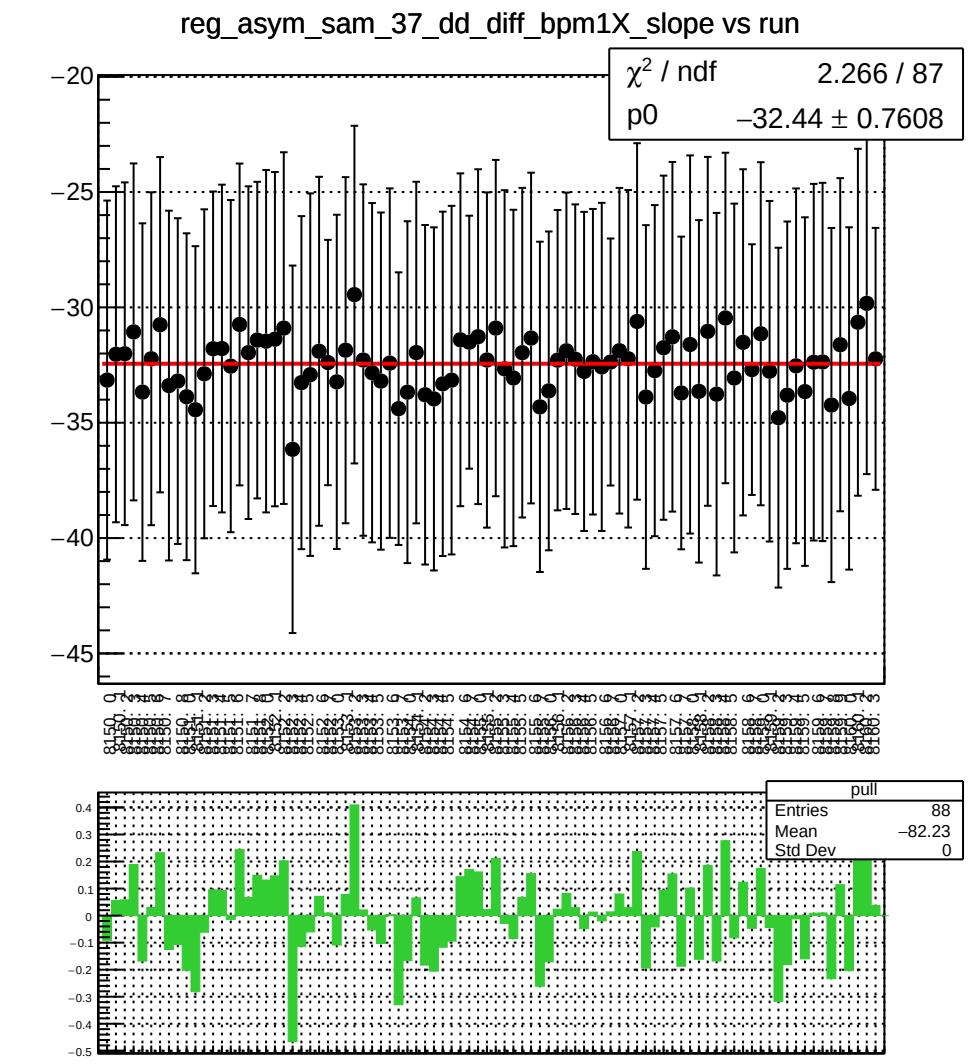

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.879 / 87
p0 −2.808 ± 2.549
pull
Entries 88
Mean −75.59
Std Dev 104.8
pull1D
Entries 88
Mean −0.001017
Std Dev 0.1461

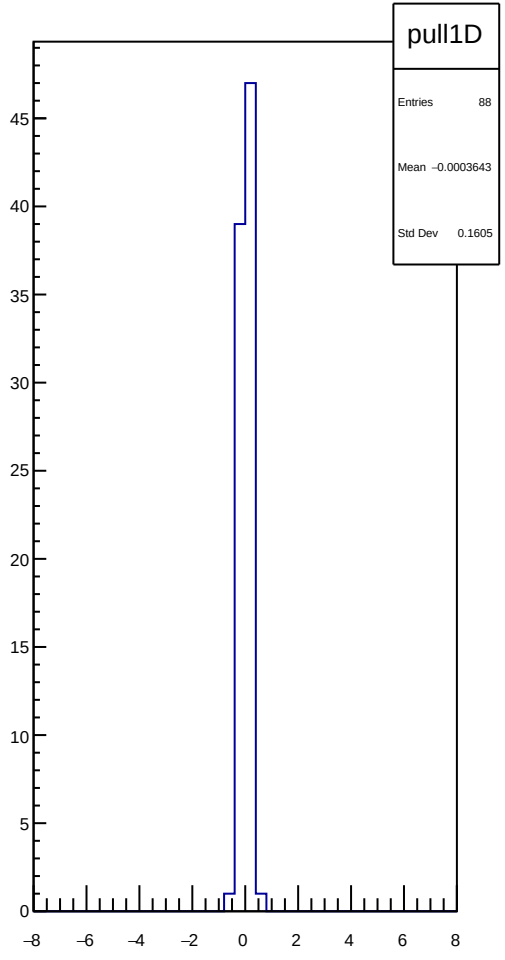

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.469 / 87
p0 −87.91 ± 1.379
pull
Entries 88
Mean −568.9
Std Dev 0

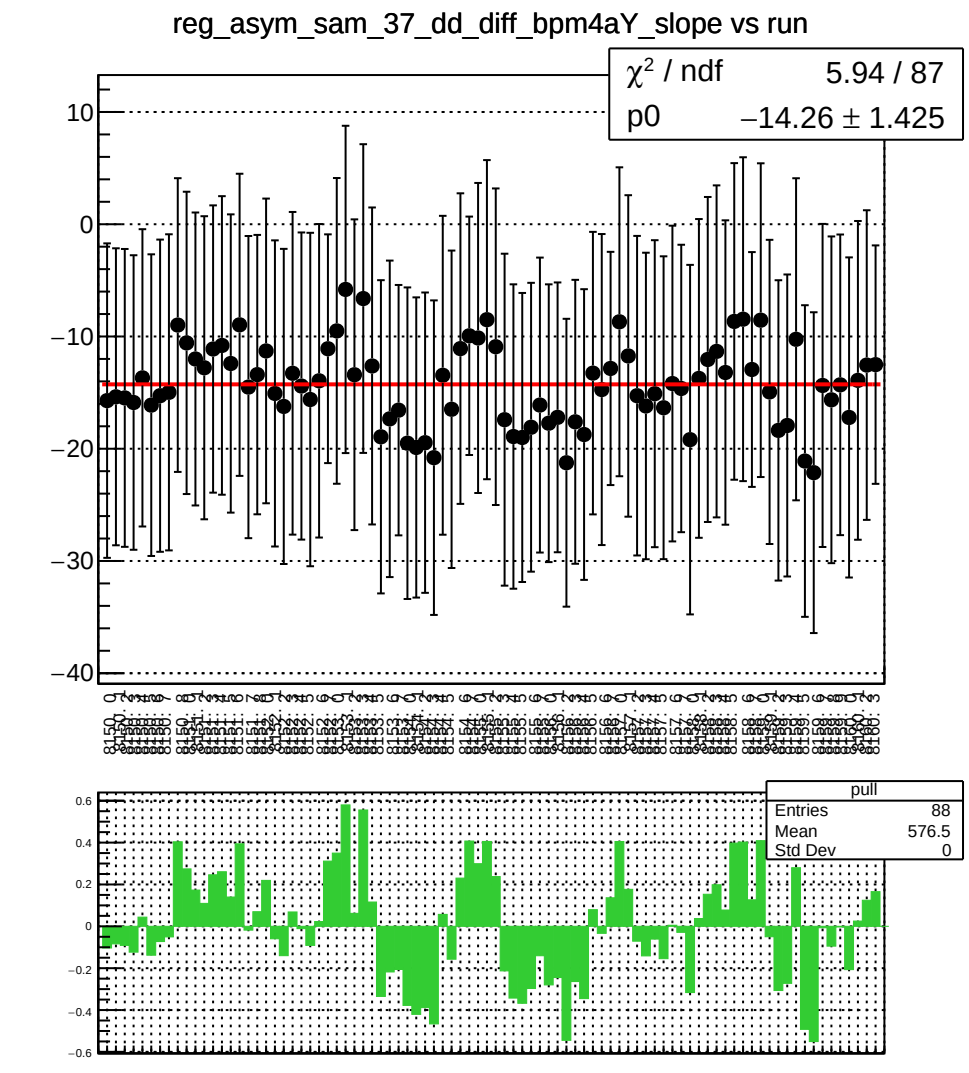

pull1D
Entries 88
Mean 0.001402
Std Dev 0.1292

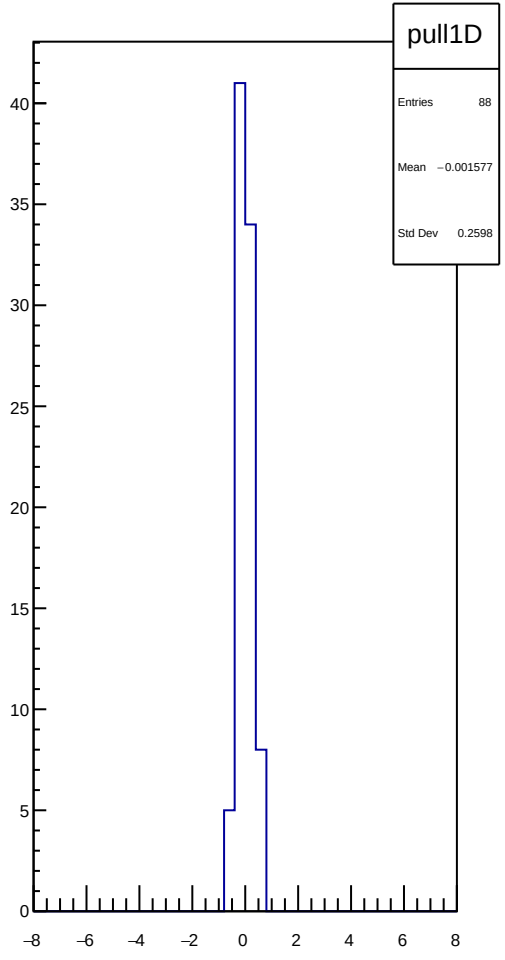

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.901 / 87
p0 8.96 ± 2.731
pull
Entries 88
Mean −205.6
Std Dev 0
pull1D
Entries 88
Mean 0.0009332
Std Dev 0.147

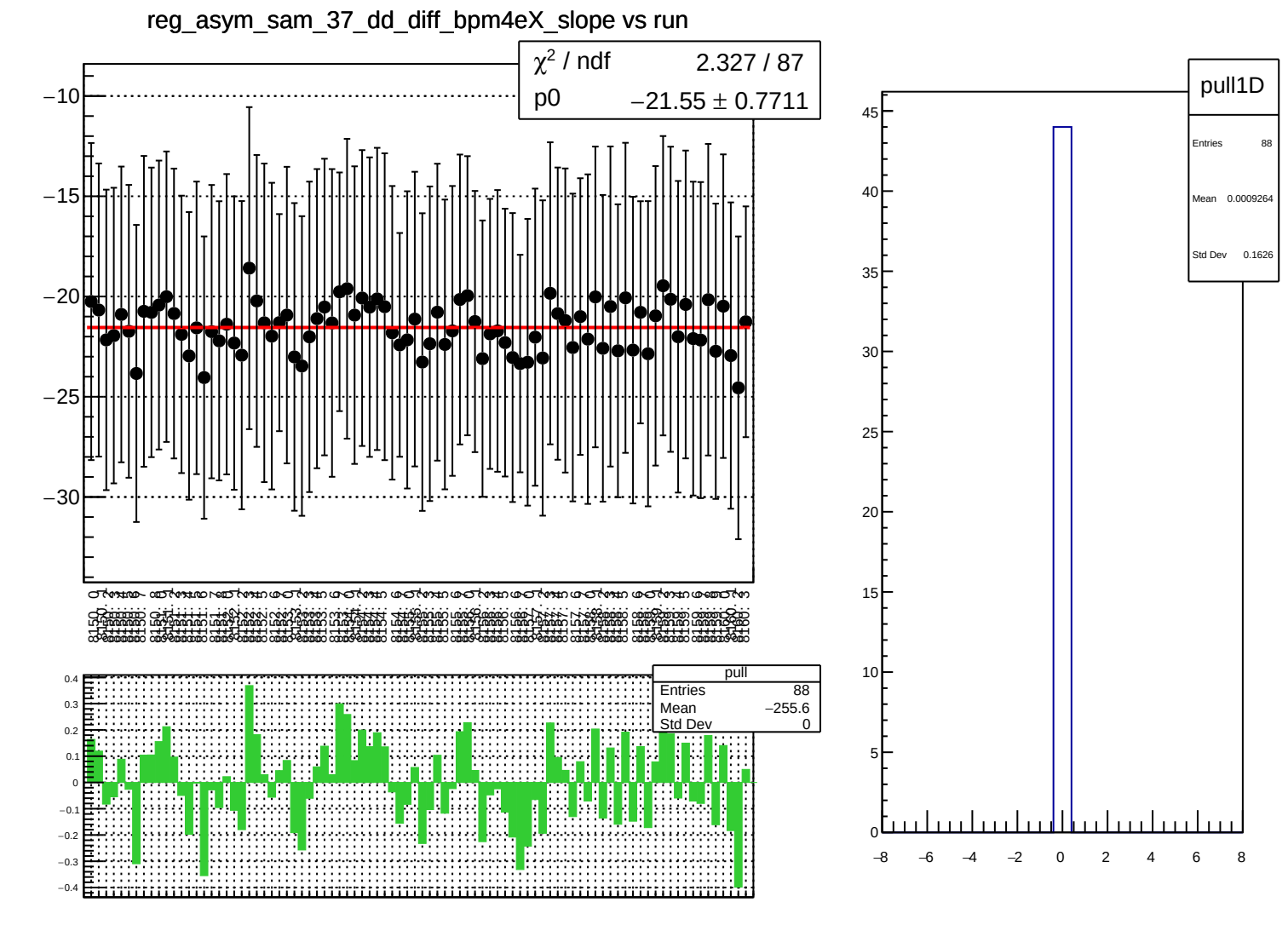

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 1.972 / 87
p0 0.8977 ± 0.1279
pull
Entries 88
Mean 356.4
Std Dev 0
pull1D
Entries 88
Mean 0.0008381
Std Dev 0.1497

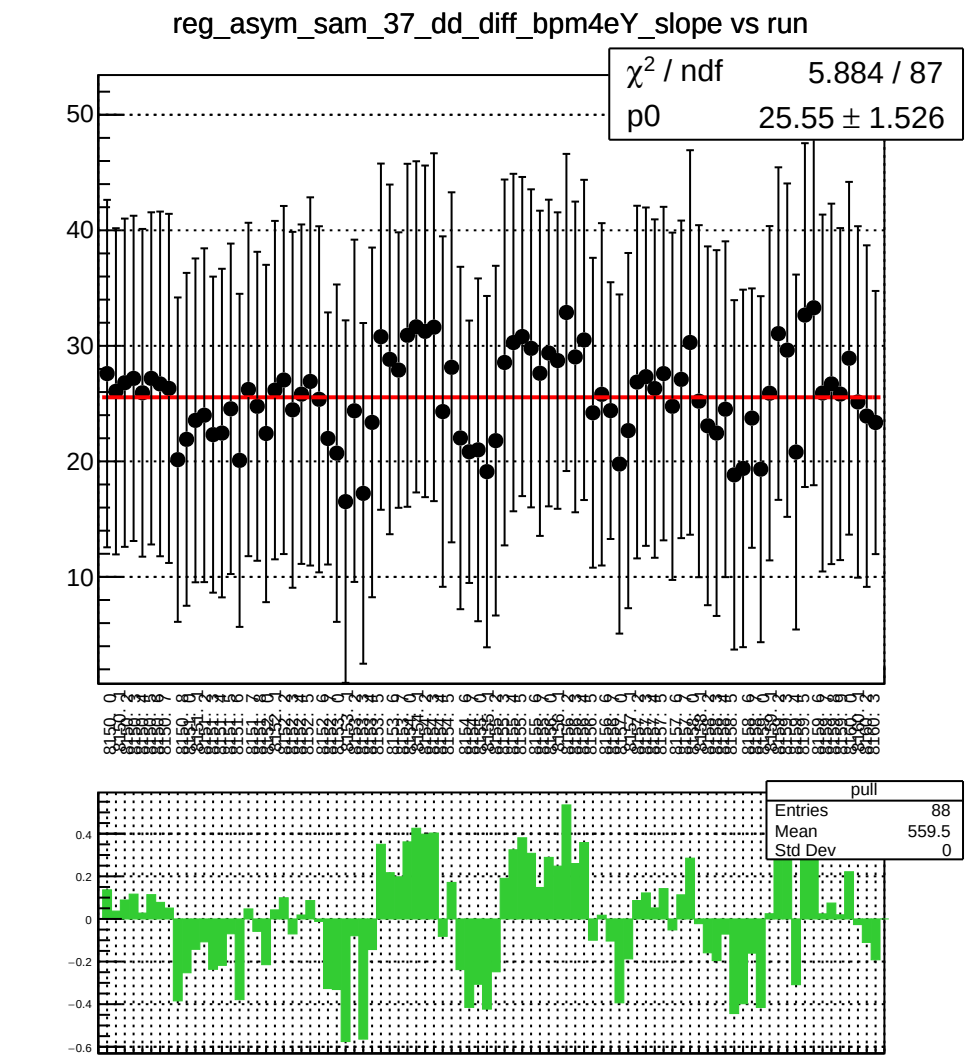

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 2.266 / 87
p0 −32.44 ± 0.7608
pull
Entries 88
Mean −82.23
Std Dev 0

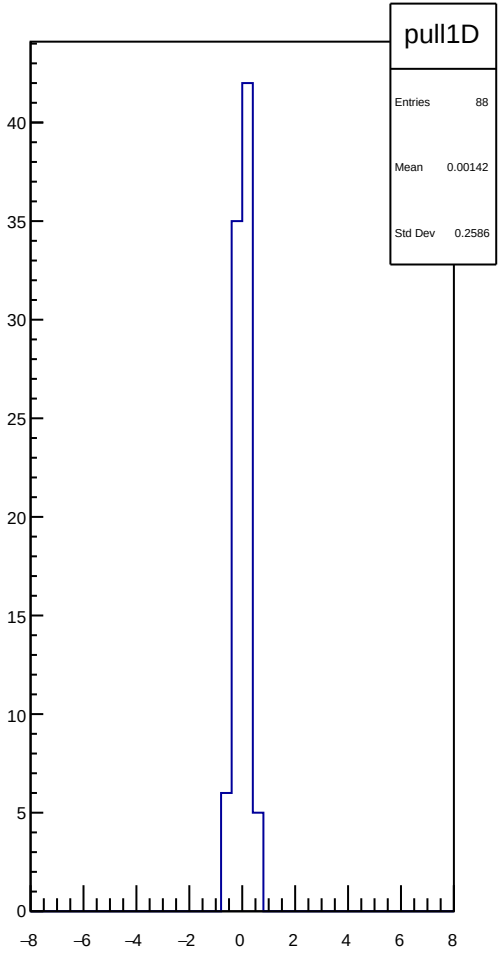

pull1D
Entries 88
Mean −0.0003643
Std Dev 0.1605

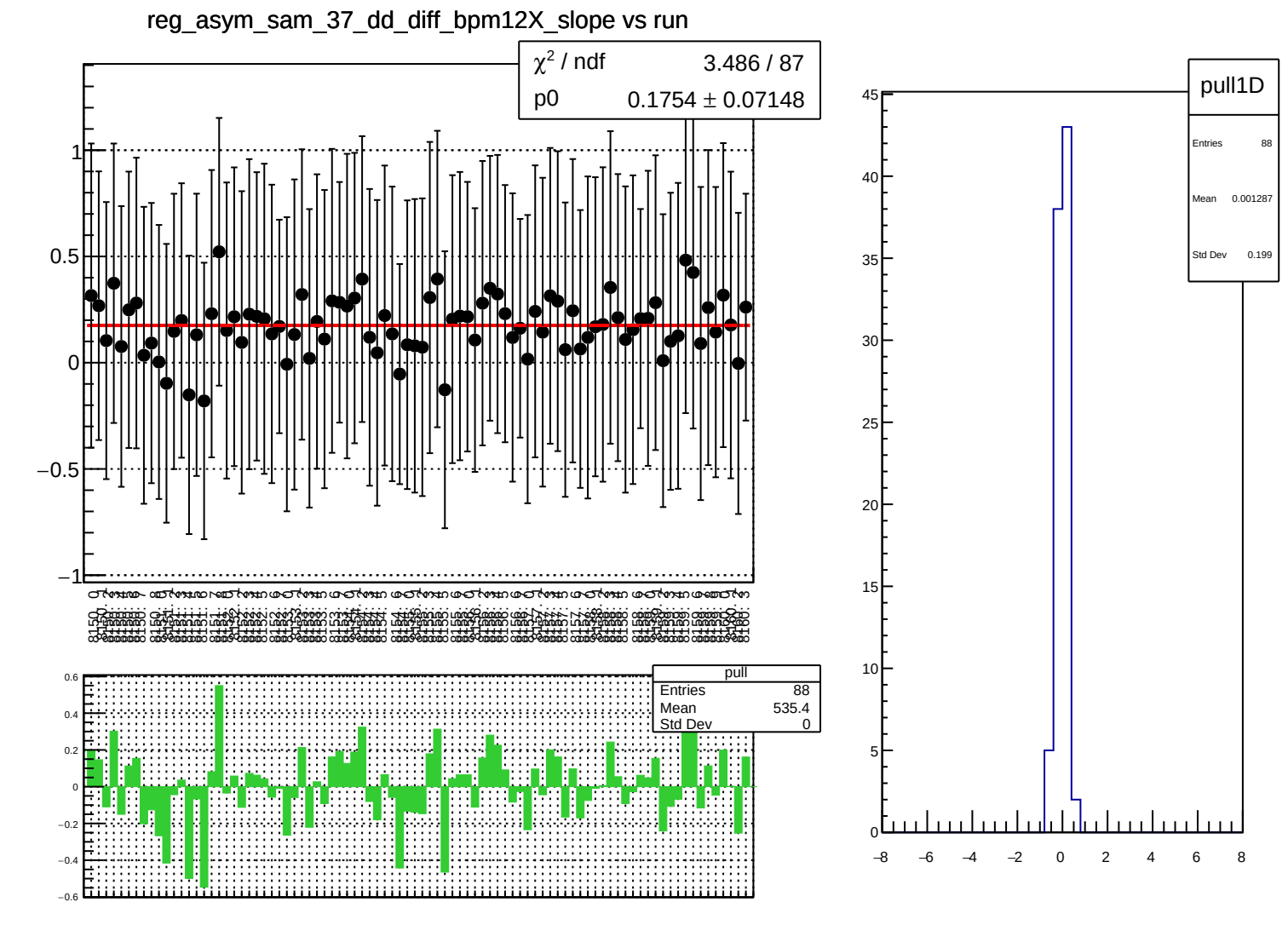

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.94 / 87
p0 −14.26 ± 1.425
pull
Entries 88
Mean 576.5
Std Dev 0

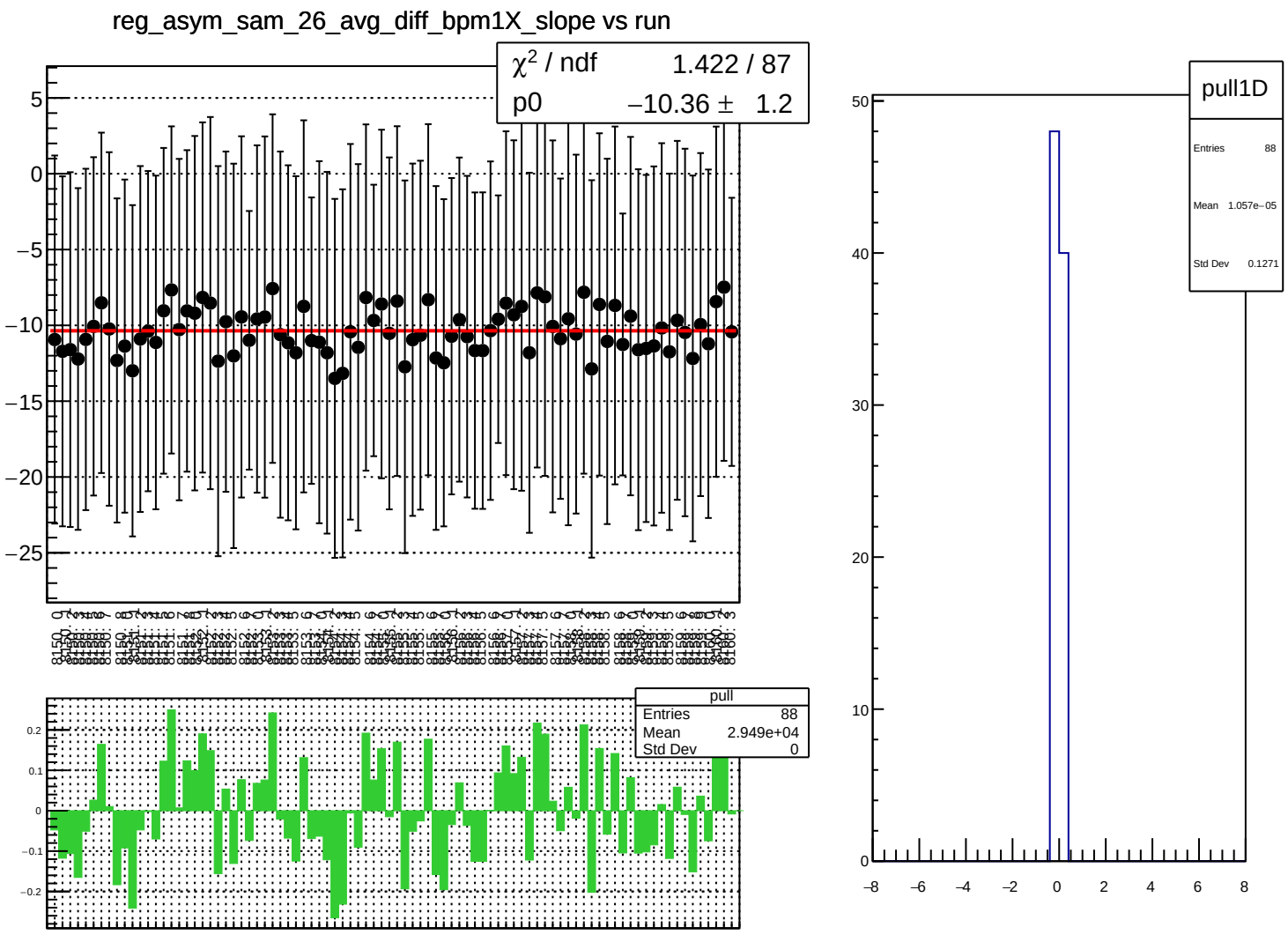

pull1D
Entries 88
Mean −0.001577
Std Dev 0.2598

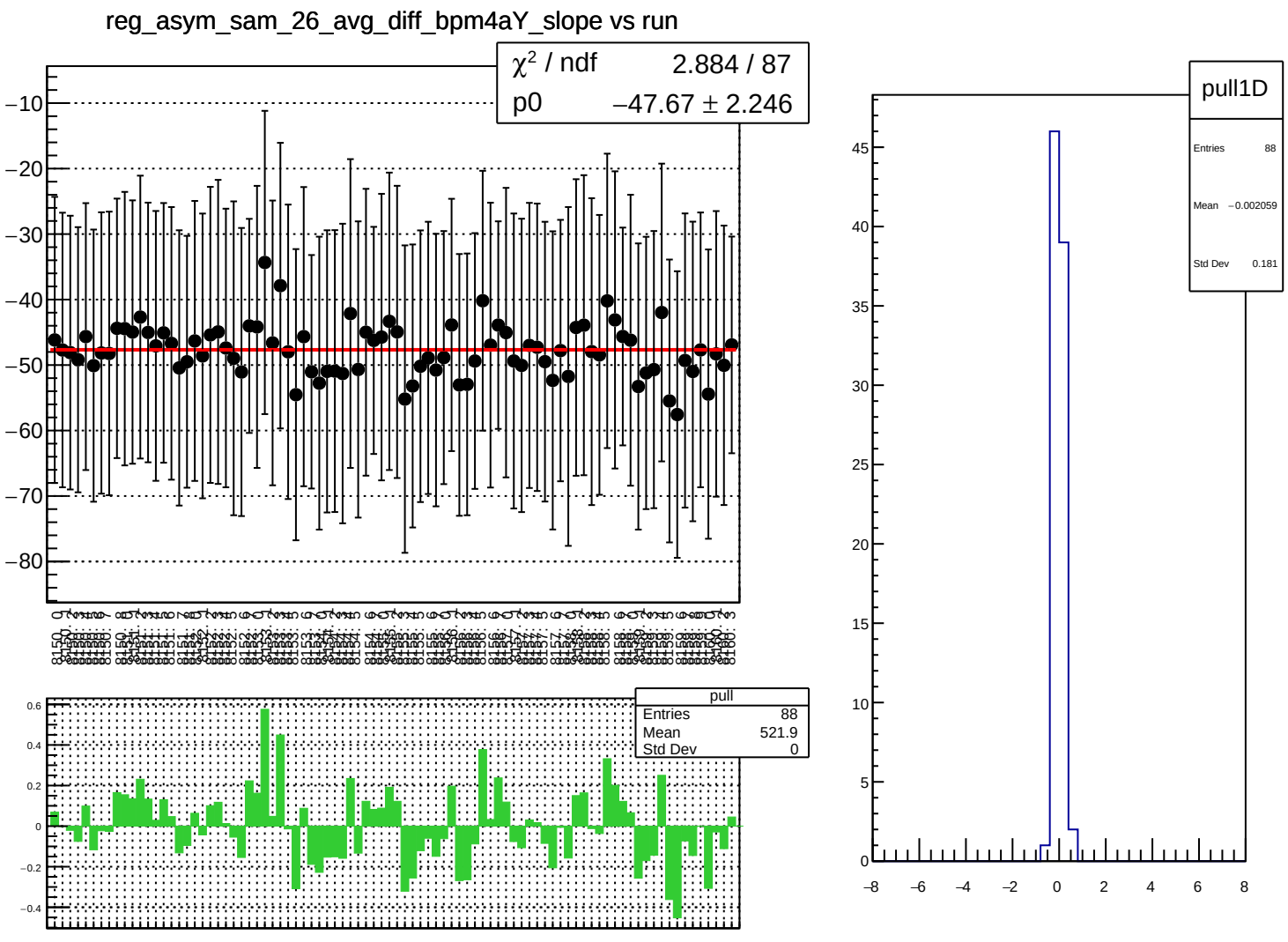

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.327 / 87
p0 −21.55 ± 0.7711
pull
Entries 88
Mean −255.6
Std Dev 0
pull1D
Entries 88
Mean 0.0009264
Std Dev 0.1626

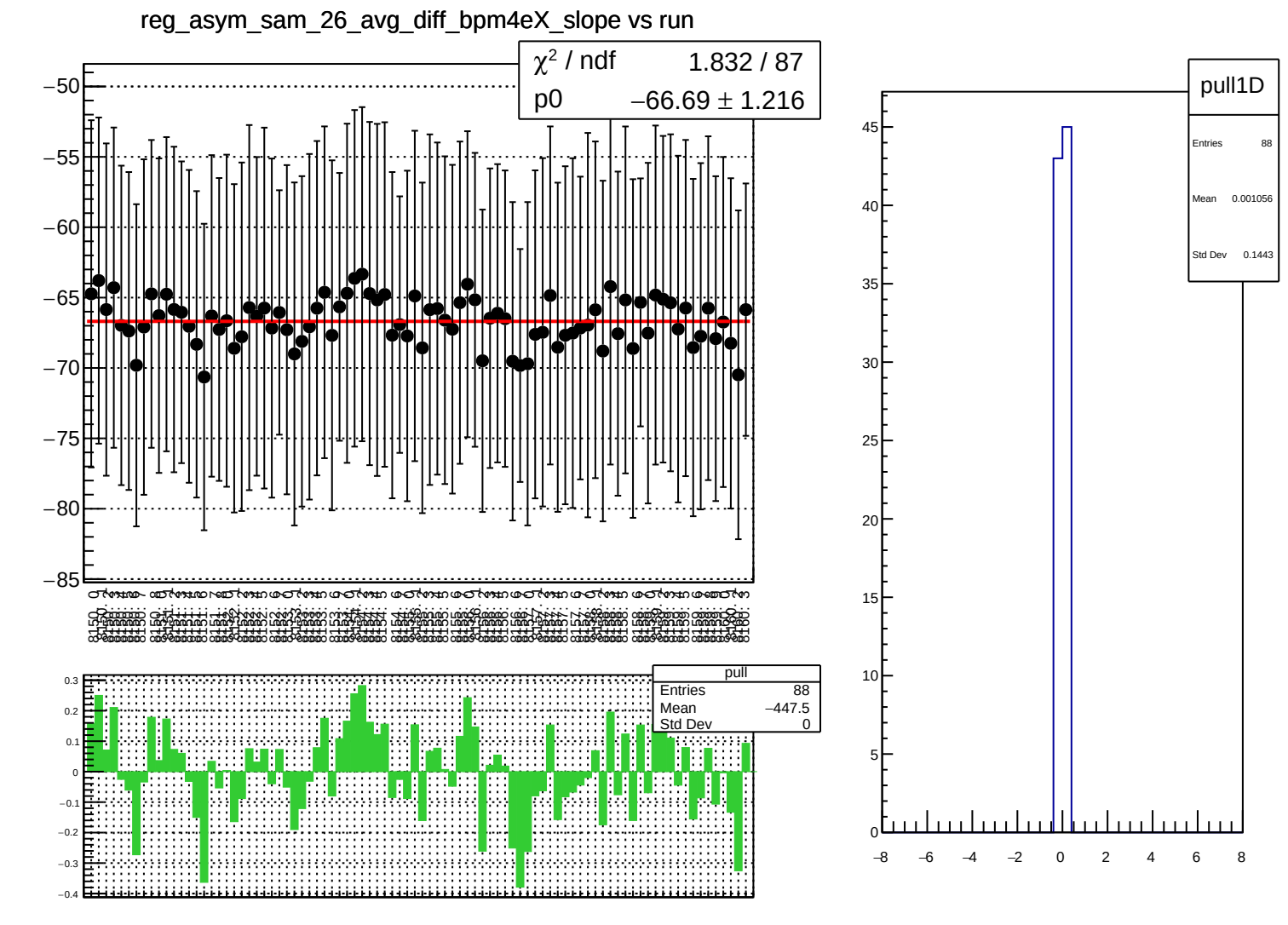

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.884 / 87
p0 25.55 ± 1.526
pull
Entries 88
Mean 559.5
Std Dev 0

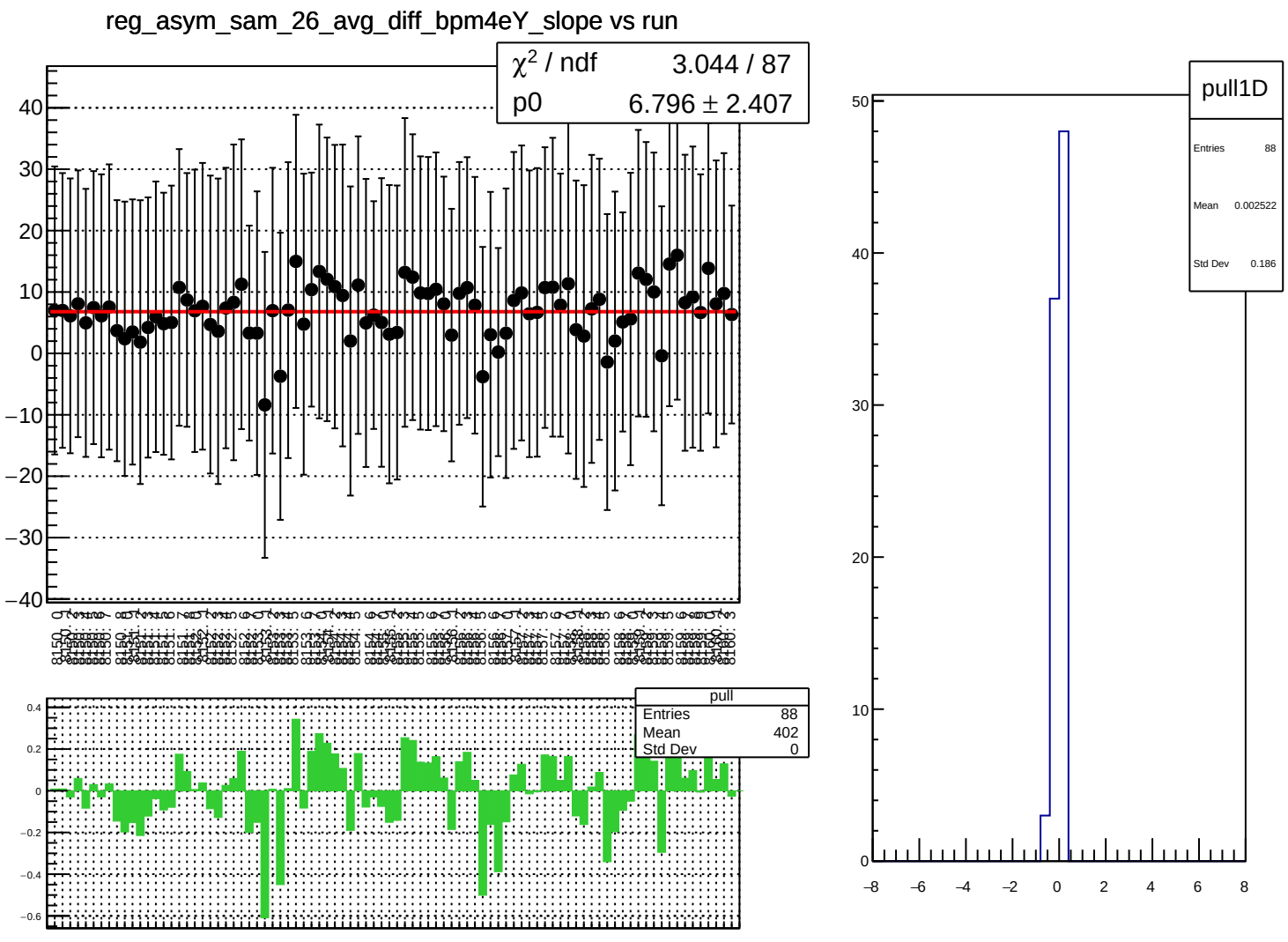

pull1D
Entries 88
Mean 0.00142
Std Dev 0.2586

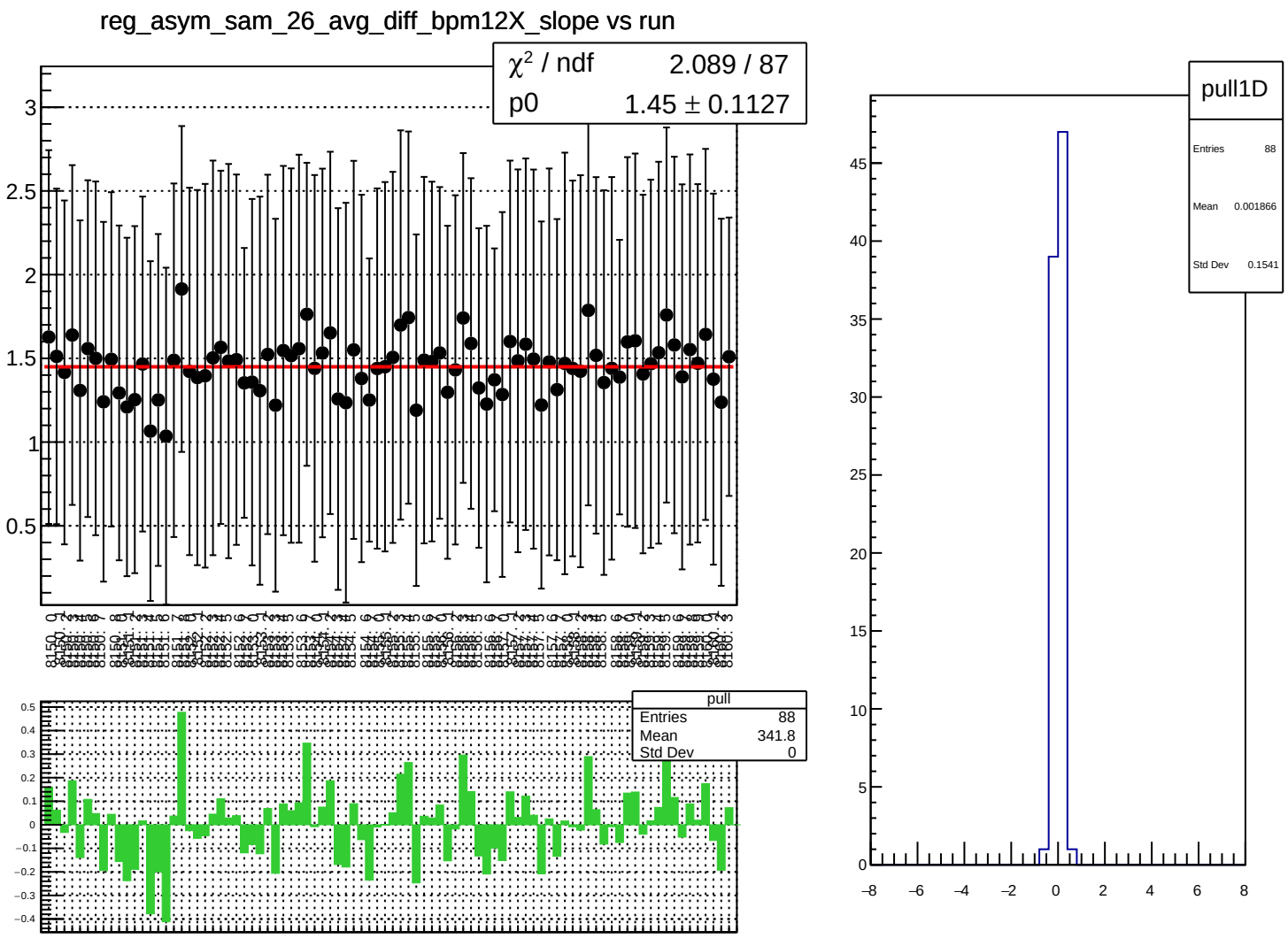

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.486 / 87
p0 0.1754 ± 0.07148
pull
Entries 88
Mean 535.4
Std Dev 0
pull1D
Entries 88
Mean 0.001287
Std Dev 0.199

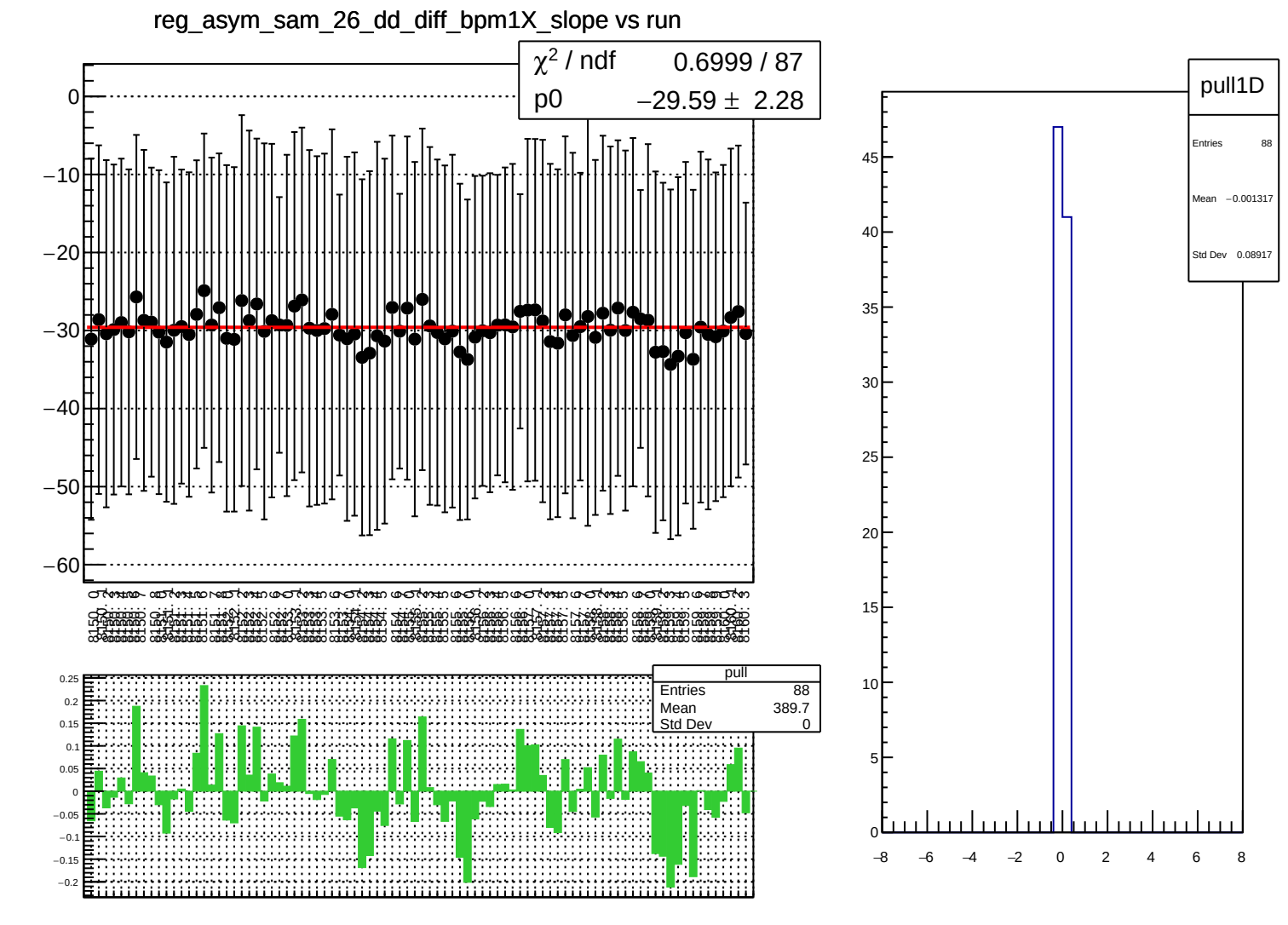

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 1.422 / 87
p0 −10.36 ± 1.2
pull
Entries 88
Mean 2.949e+04
Std Dev 0
pull1D
Entries 88
Mean 1.057e−05
Std Dev 0.1271

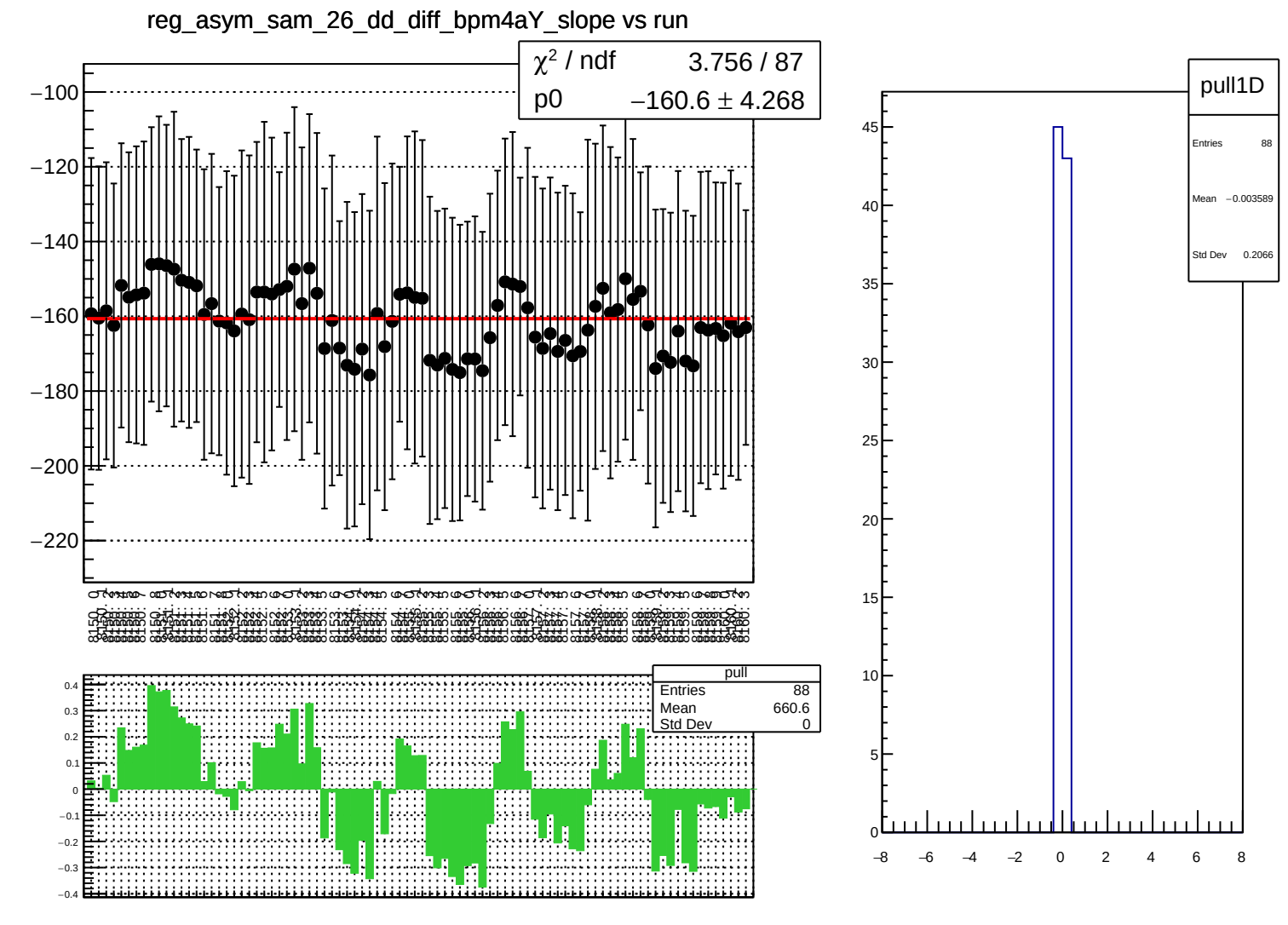

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.884 / 87
p0 −47.67 ± 2.246
pull
Entries 88
Mean 521.9
Std Dev 0
pull1D
Entries 88
Mean −0.002059
Std Dev 0.181

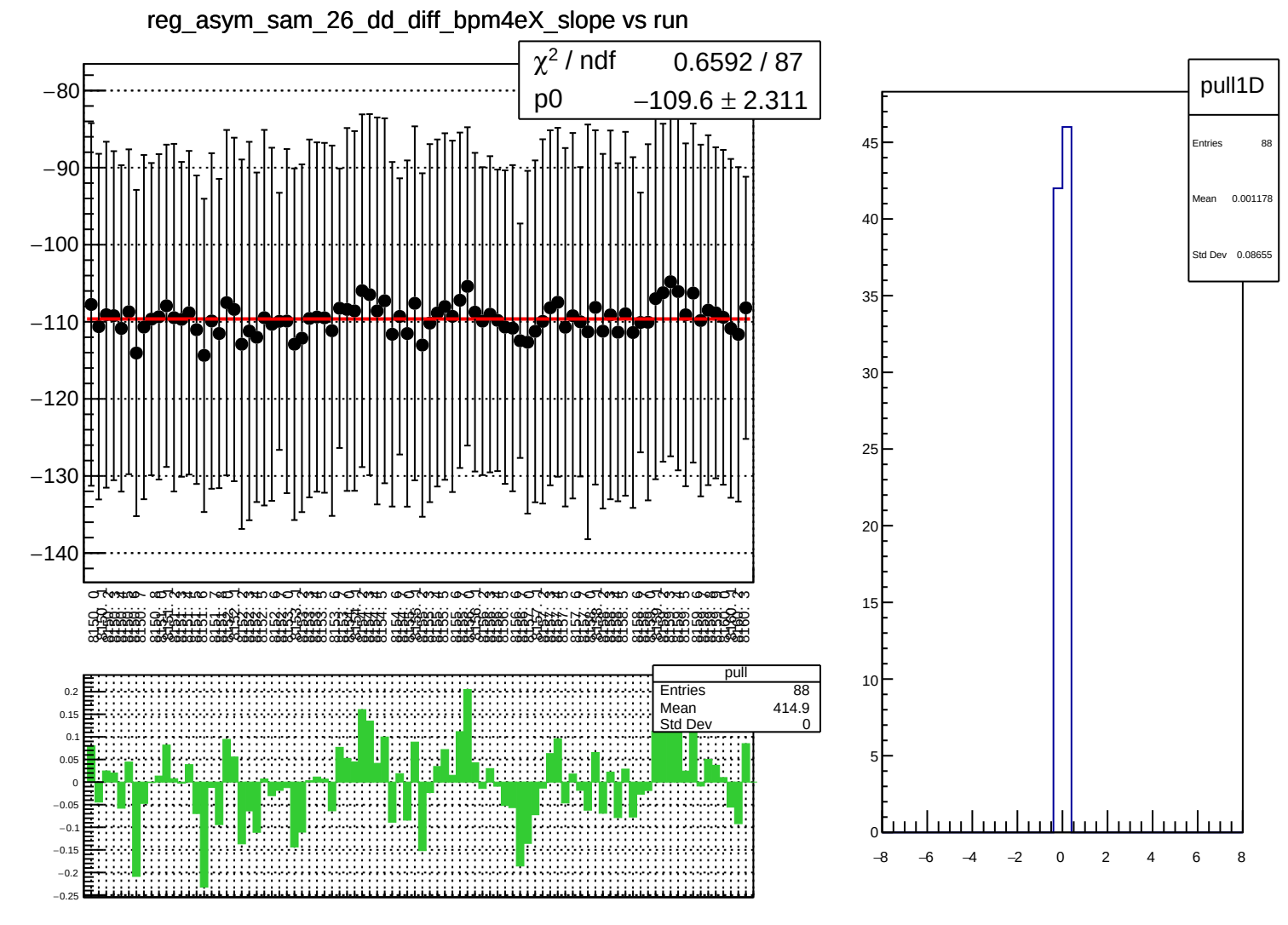

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.832 / 87
p0 −66.69 ± 1.216
pull
Entries 88
Mean −447.5
Std Dev 0
pull1D
Entries 88
Mean 0.001056
Std Dev 0.1443

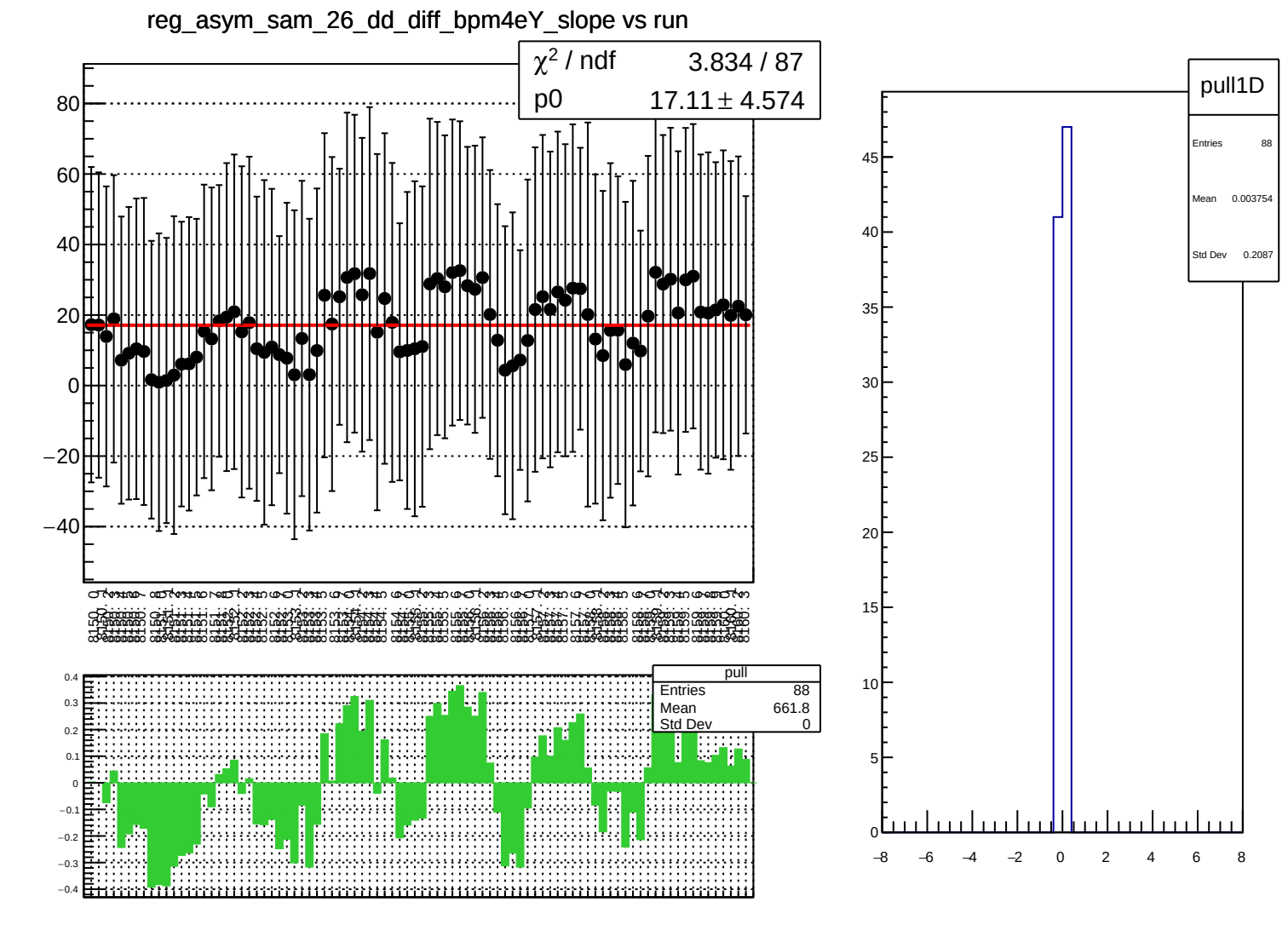

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.044 / 87
p0 6.796 ± 2.407
pull
Entries 88
Mean 402
Std Dev 0
pull1D
Entries 88
Mean 0.002522
Std Dev 0.186

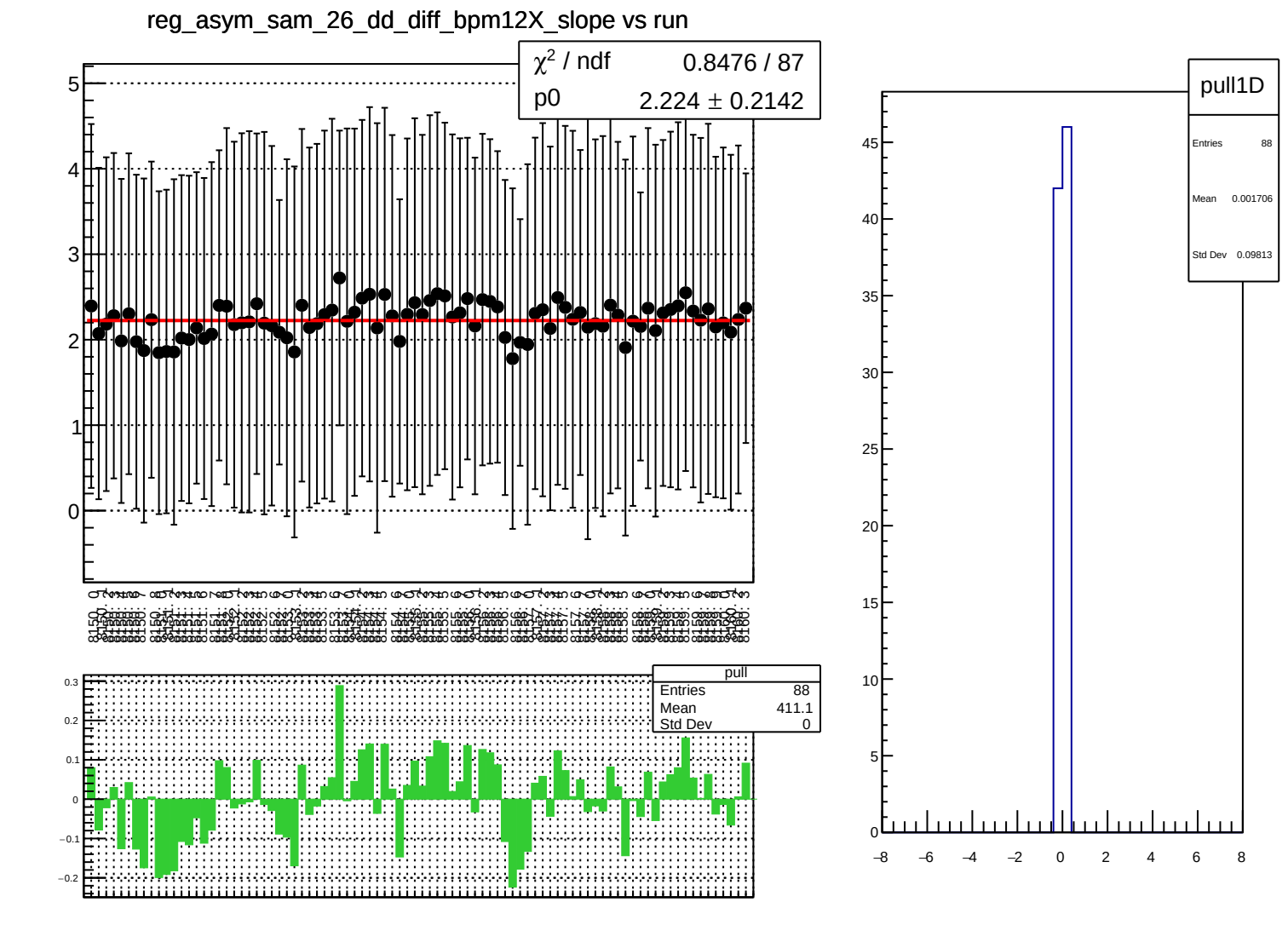

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 2.089 / 87
p0 1.45 ± 0.1127
pull
Entries 88
Mean 341.8
Std Dev 0
pull1D
Entries 88
Mean 0.001866
Std Dev 0.1541

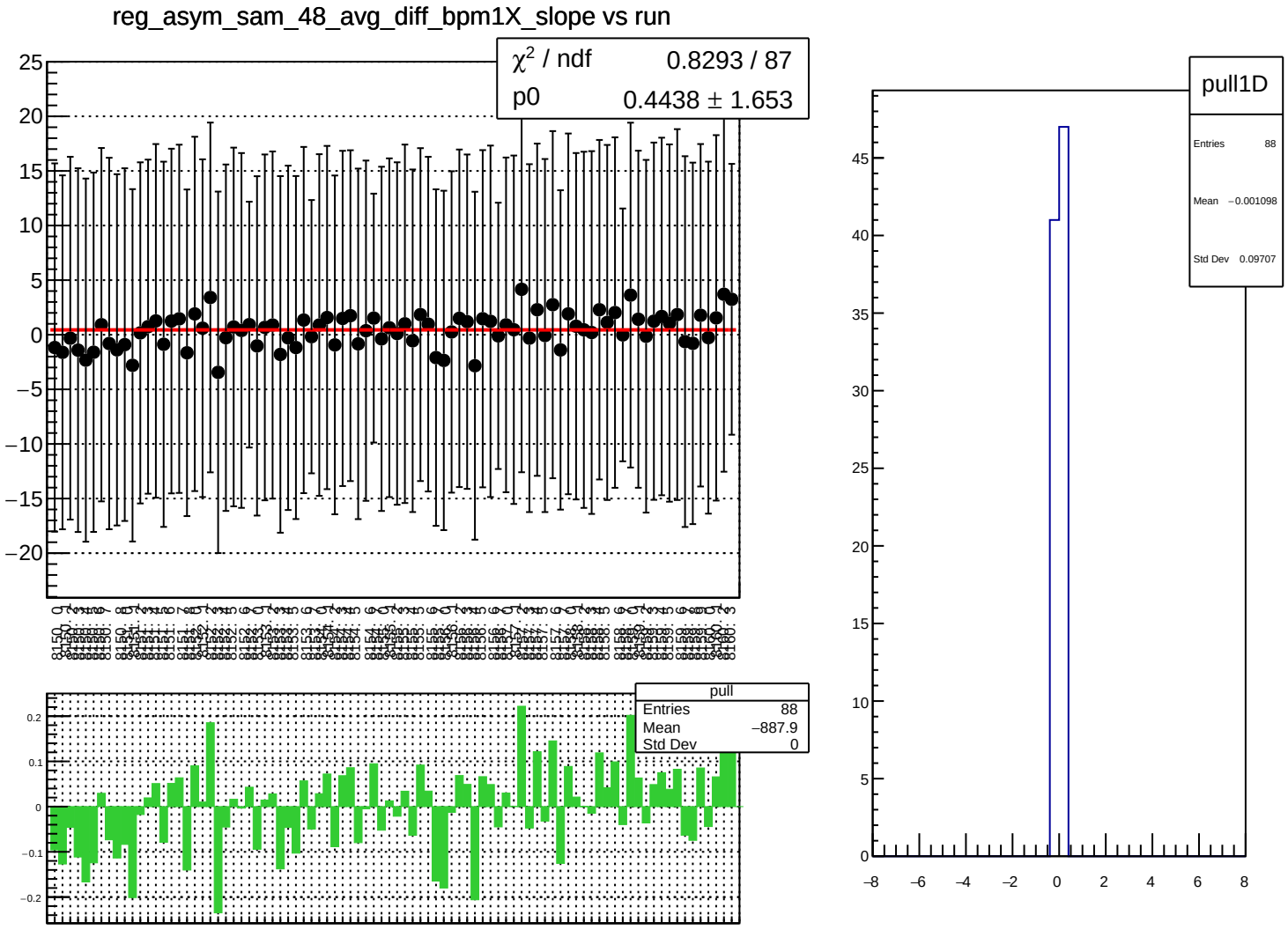

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.6999 / 87
p0 −29.59 ± 2.28
pull
Entries 88
Mean 389.7
Std Dev 0
pull1D
Entries 88
Mean −0.001317
Std Dev 0.08917

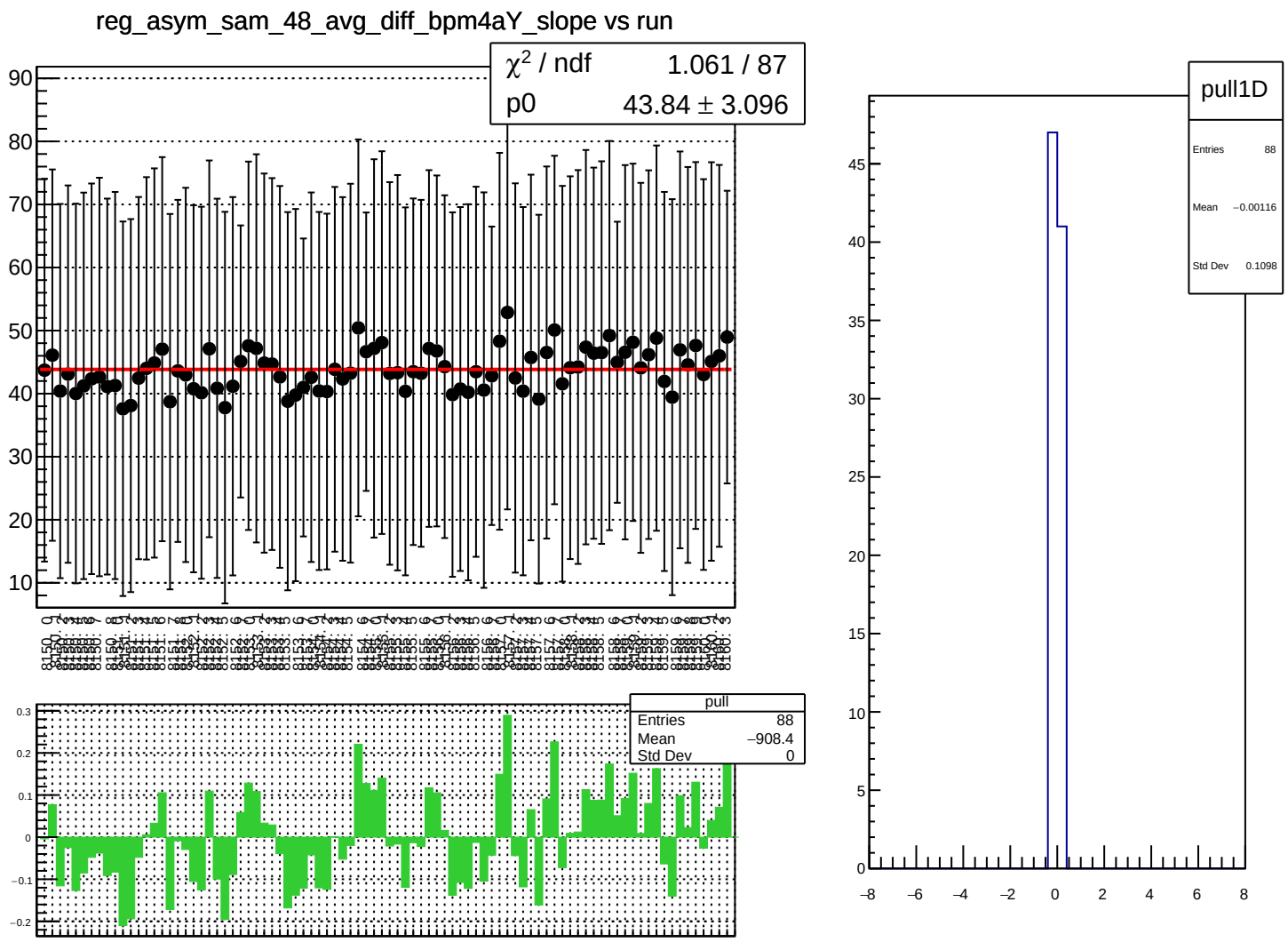

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.756 / 87
p0 −160.6 ± 4.268
pull
Entries 88
Mean 660.6
Std Dev 0
pull1D
Entries 88
Mean −0.003589
Std Dev 0.2066

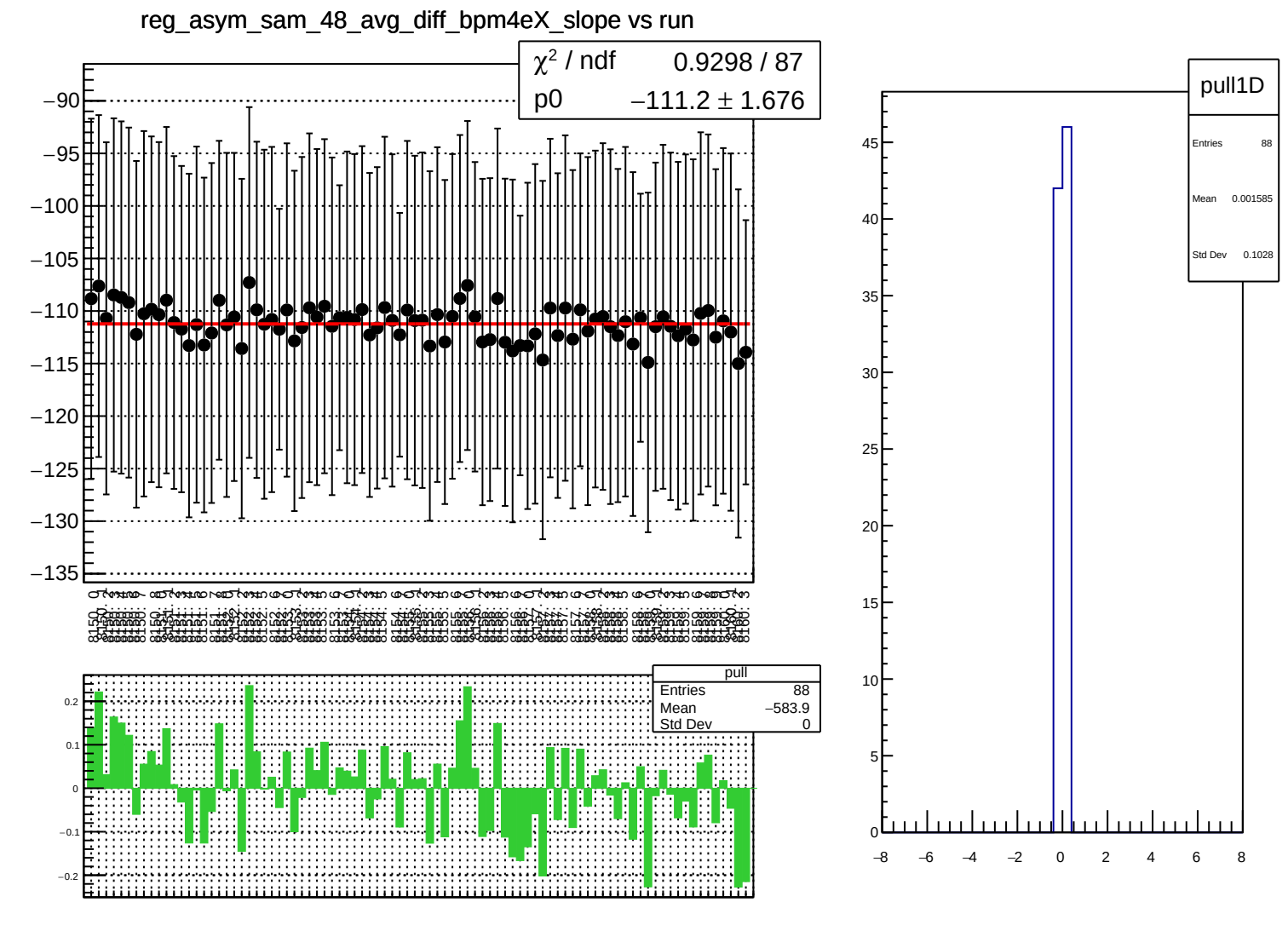

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6592 / 87
p0 −109.6 ± 2.311
pull
Entries 88
Mean 414.9
Std Dev 0
pull1D
Entries 88
Mean 0.001178
Std Dev 0.08655

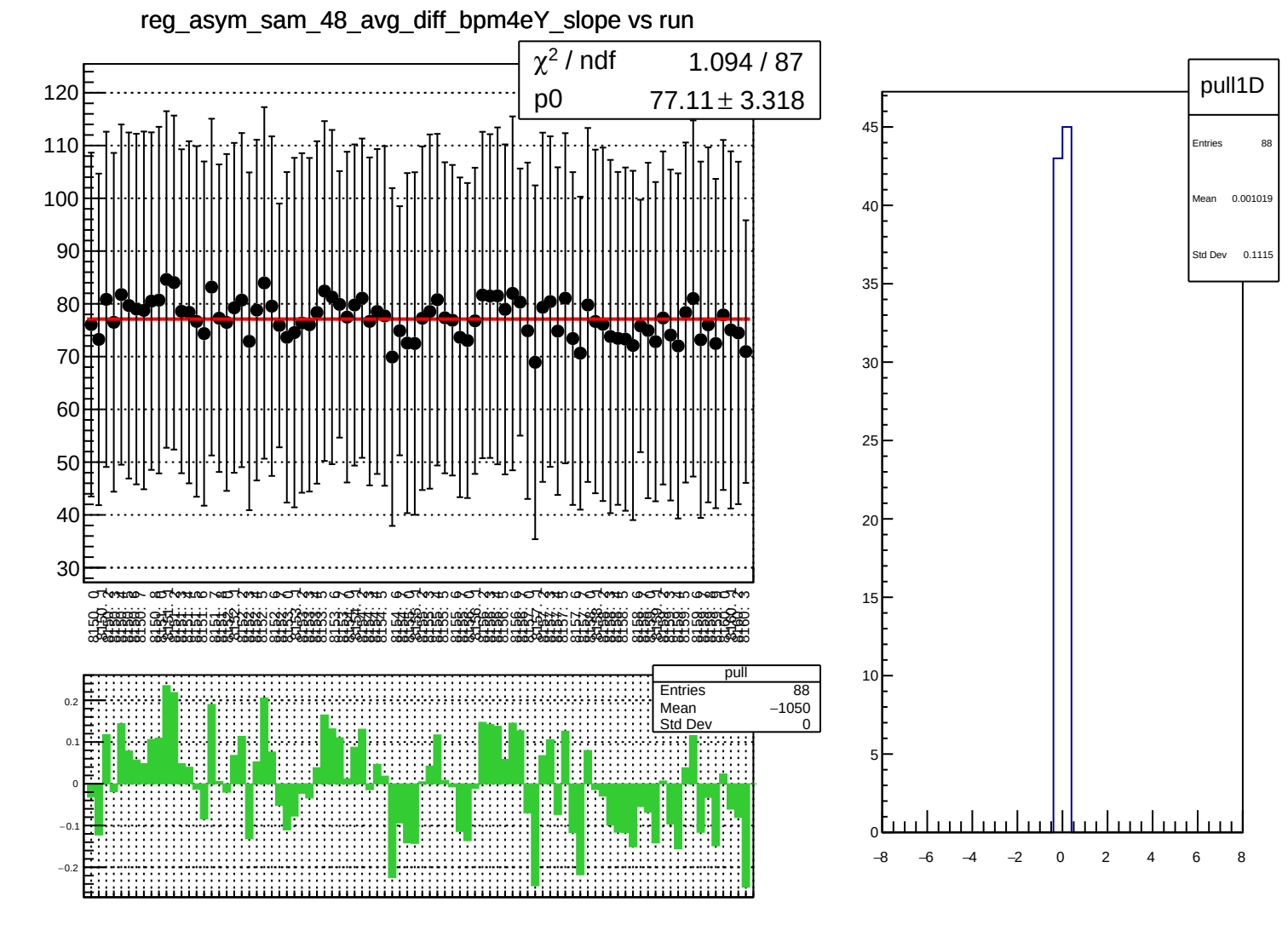

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.834 / 87
p0 17.11 ± 4.574
pull
Entries 88
Mean 661.8
Std Dev 0
pull1D
Entries 88
Mean 0.003754
Std Dev 0.2087

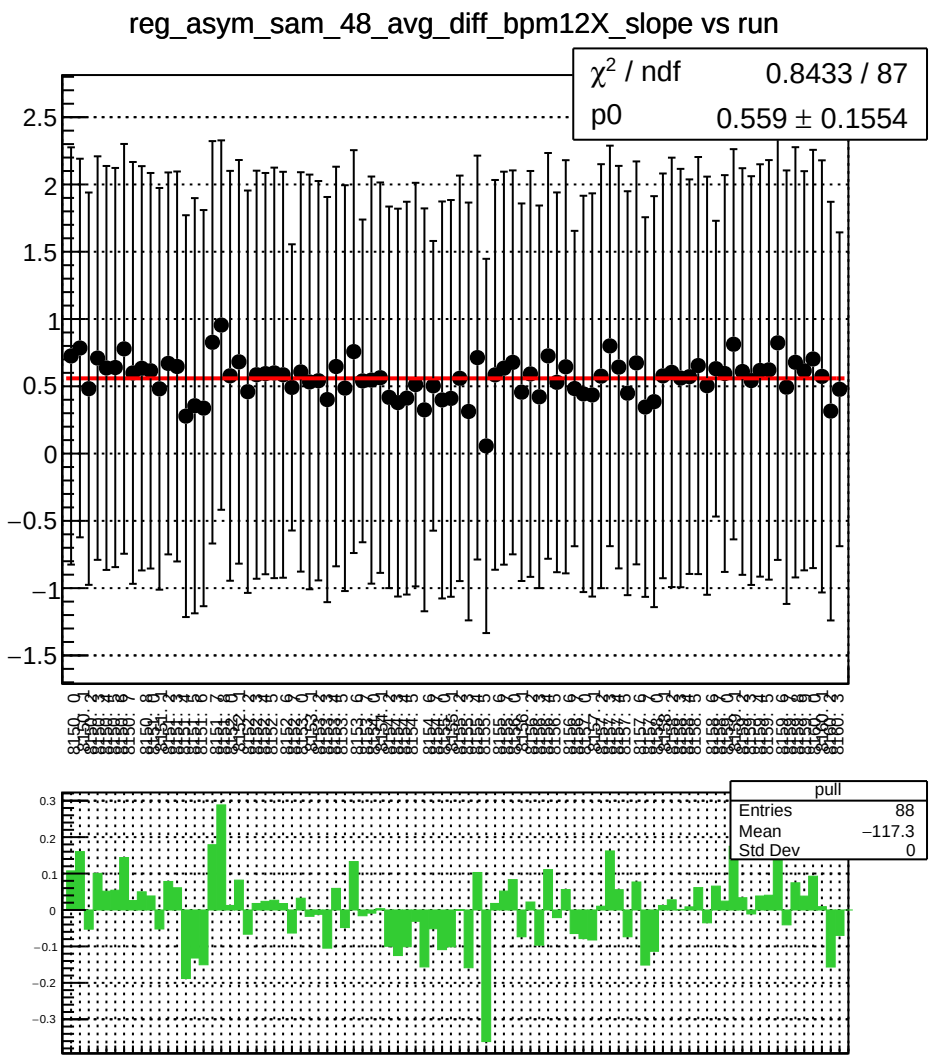

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8476 / 87
p0 2.224 ± 0.2142
pull
Entries 88
Mean 411.1
Std Dev 0
pull1D
Entries 88
Mean 0.001706
Std Dev 0.09813

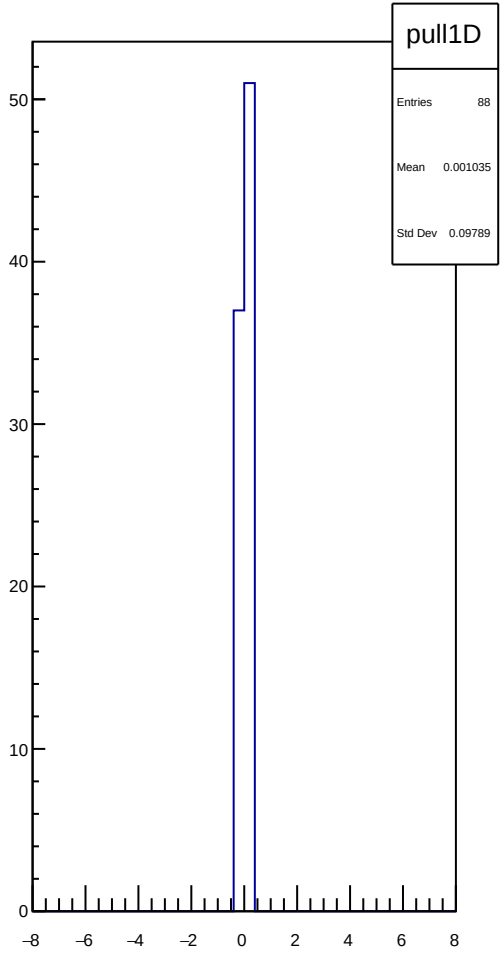

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 0.8293 / 87
p0 0.4438 ± 1.653
pull
Entries 88
Mean −887.9
Std Dev 0
pull1D
Entries 88
Mean −0.001098
Std Dev 0.09707

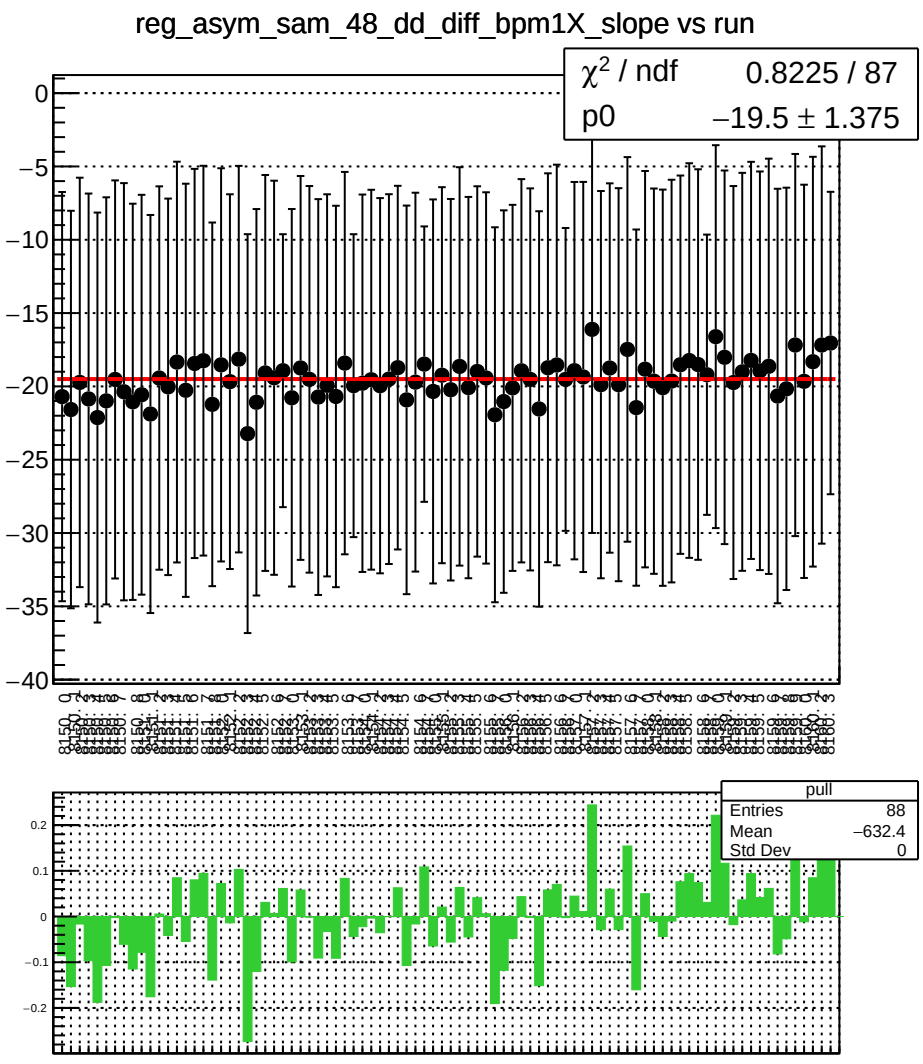

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.061 / 87
p0 43.84 ± 3.096
pull
Entries 88
Mean −908.4
Std Dev 0
pull1D
Entries 88
Mean −0.00116
Std Dev 0.1098

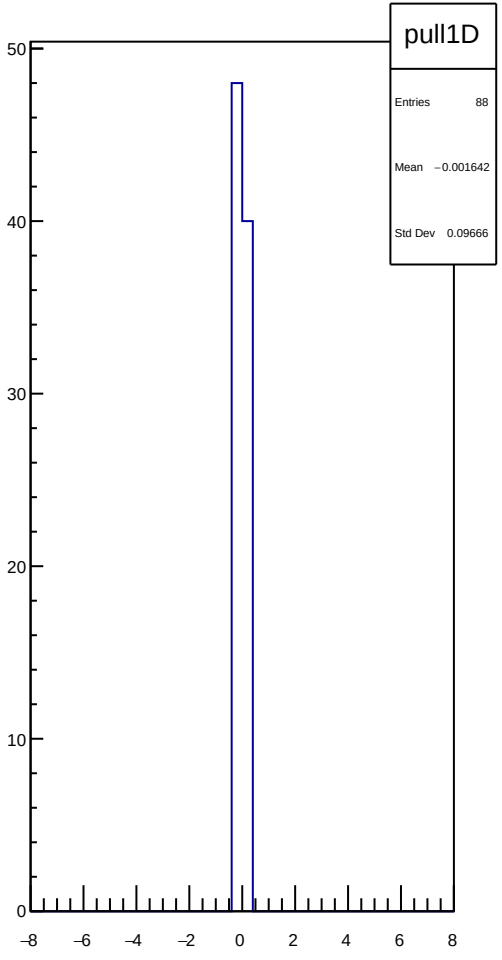

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 0.9298 / 87
p0 −111.2 ± 1.676
pull
Entries 88
Mean −583.9
Std Dev 0
pull1D
Entries 88
Mean 0.001585
Std Dev 0.1028

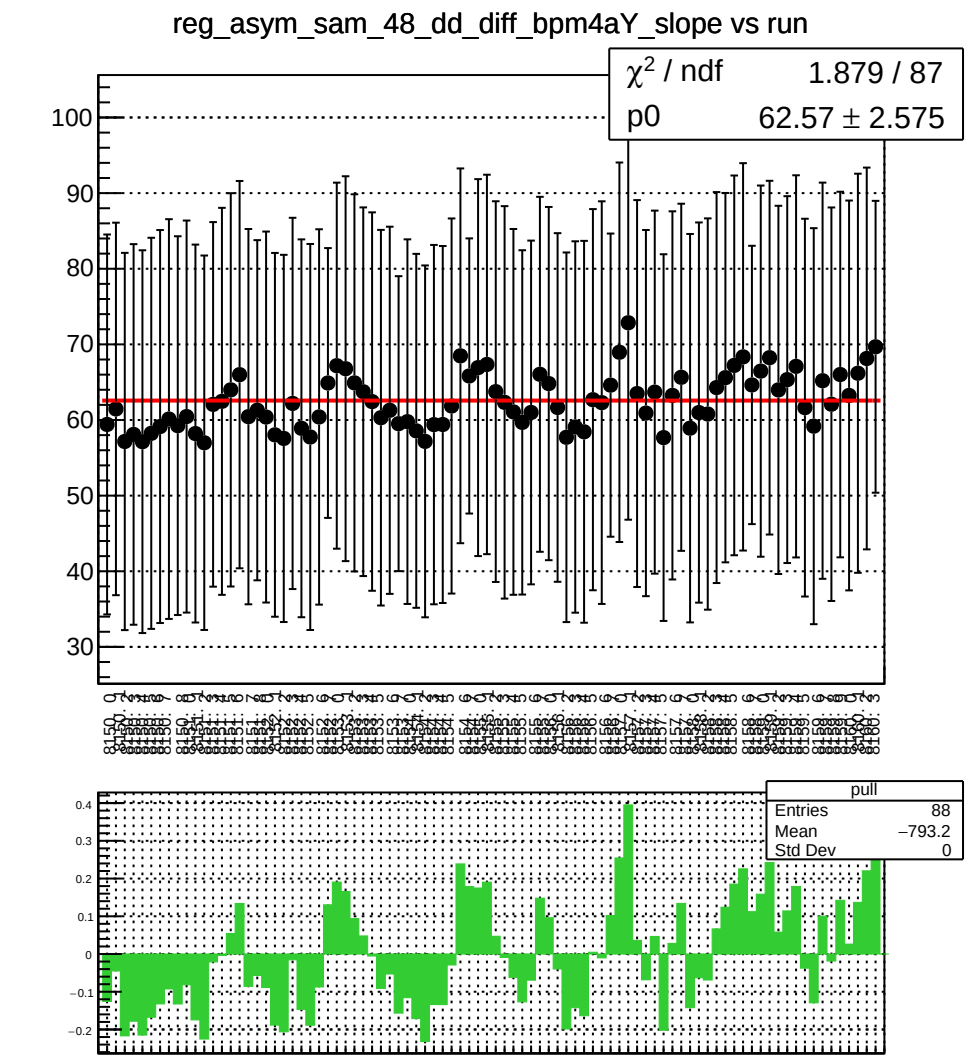

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.094 / 87
p0 77.11 ± 3.318
pull
Entries 88
Mean −1050
Std Dev 0
pull1D
Entries 88
Mean 0.001019
Std Dev 0.1115

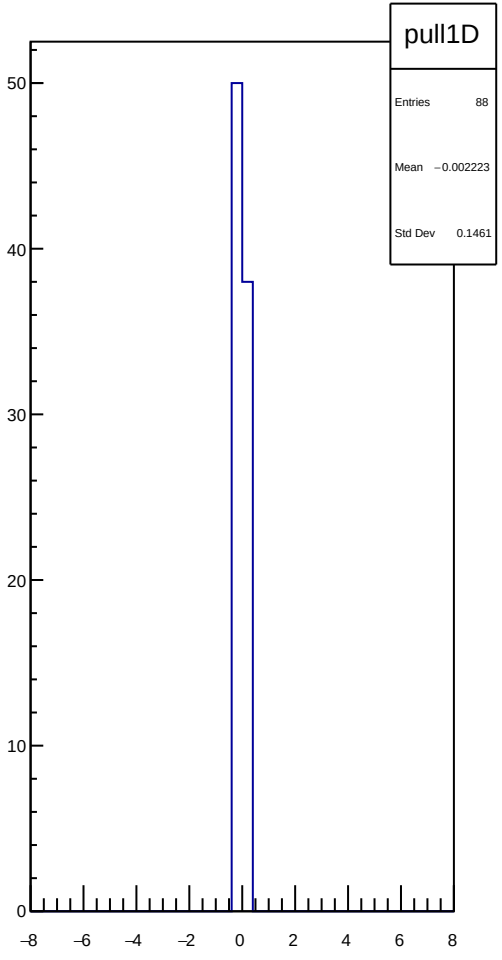

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 0.8433 / 87
p0 0.559 ± 0.1554
pull
Entries 88
Mean −117.3
Std Dev 0

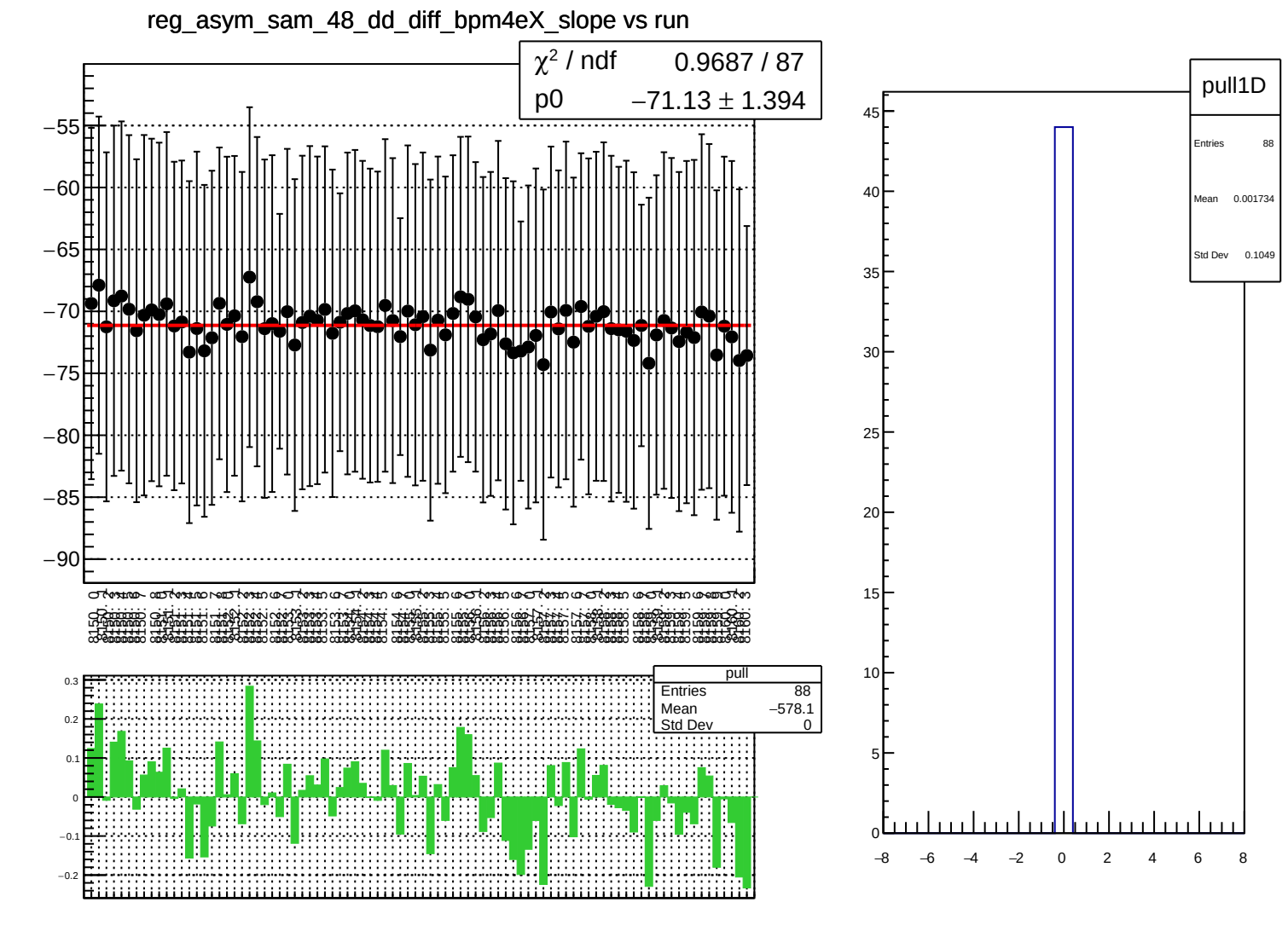

pull1D
Entries 88
Mean 0.001035
Std Dev 0.09789

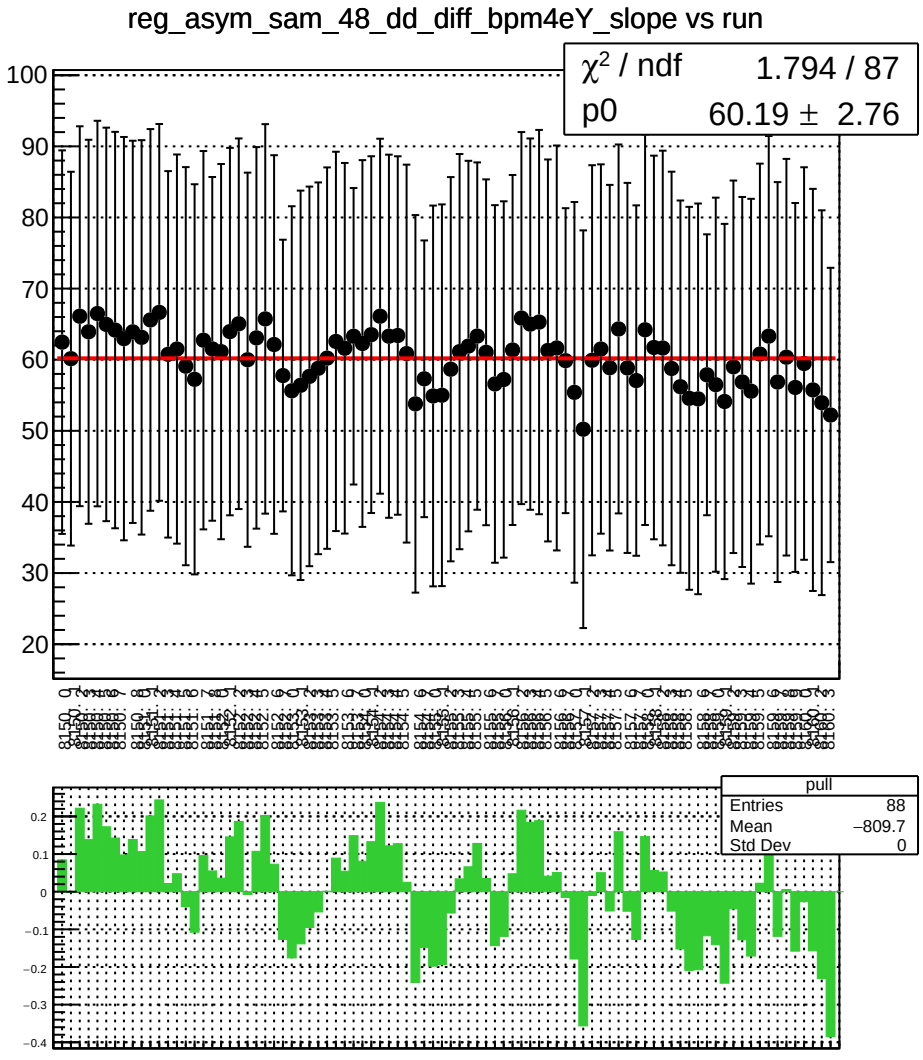

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 0.8225 / 87
p0 −19.5 ± 1.375
pull
Entries 88
Mean −632.4
Std Dev 0

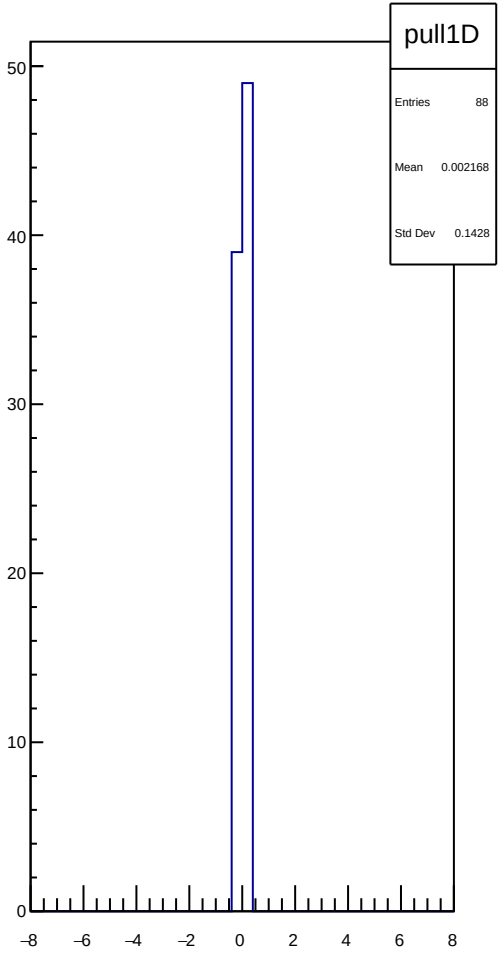

pull1D
Entries 88
Mean −0.001642
Std Dev 0.09666

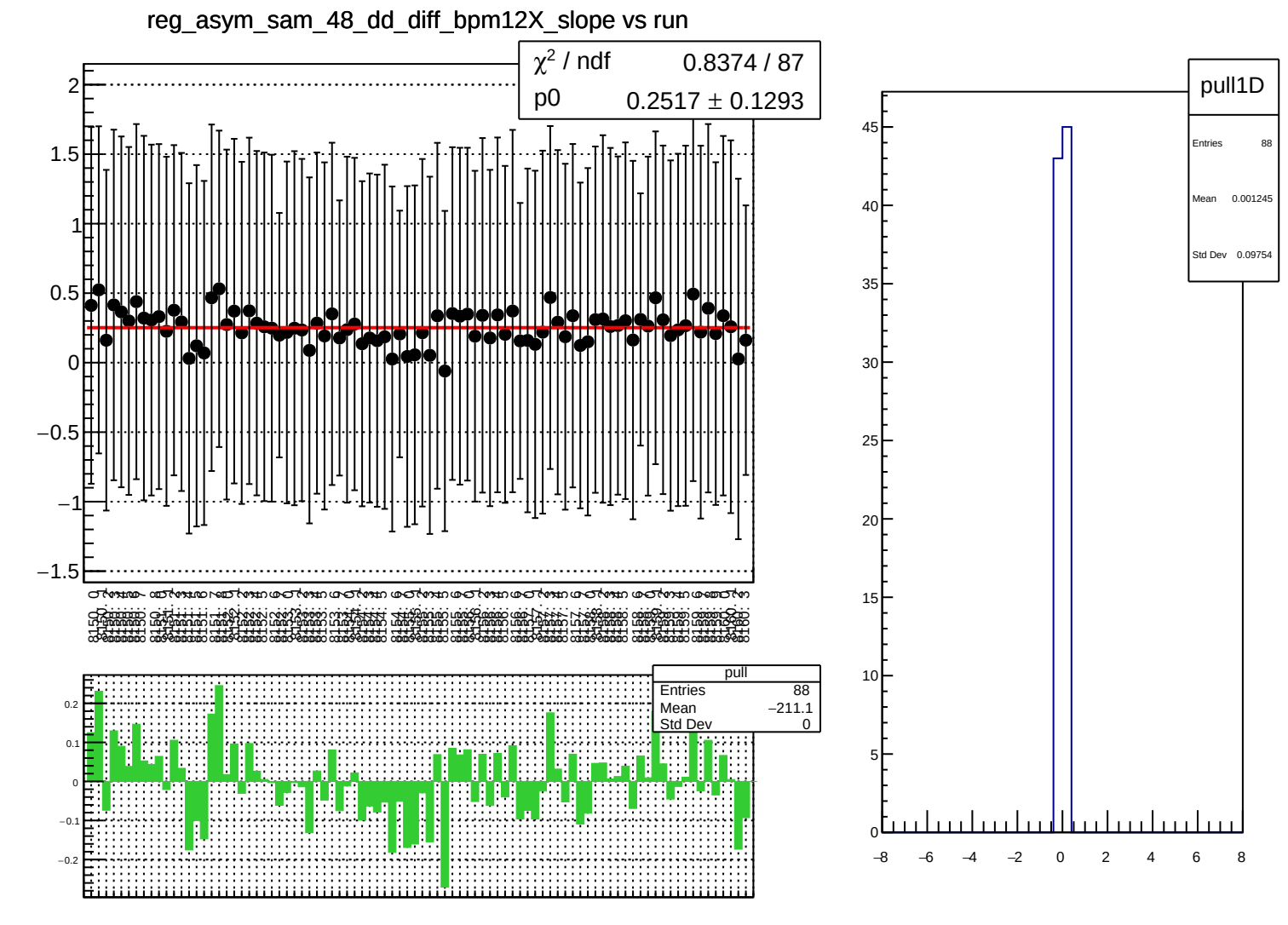

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.879 / 87
p0 62.57 ± 2.575
pull
Entries 88
Mean −793.2
Std Dev 0

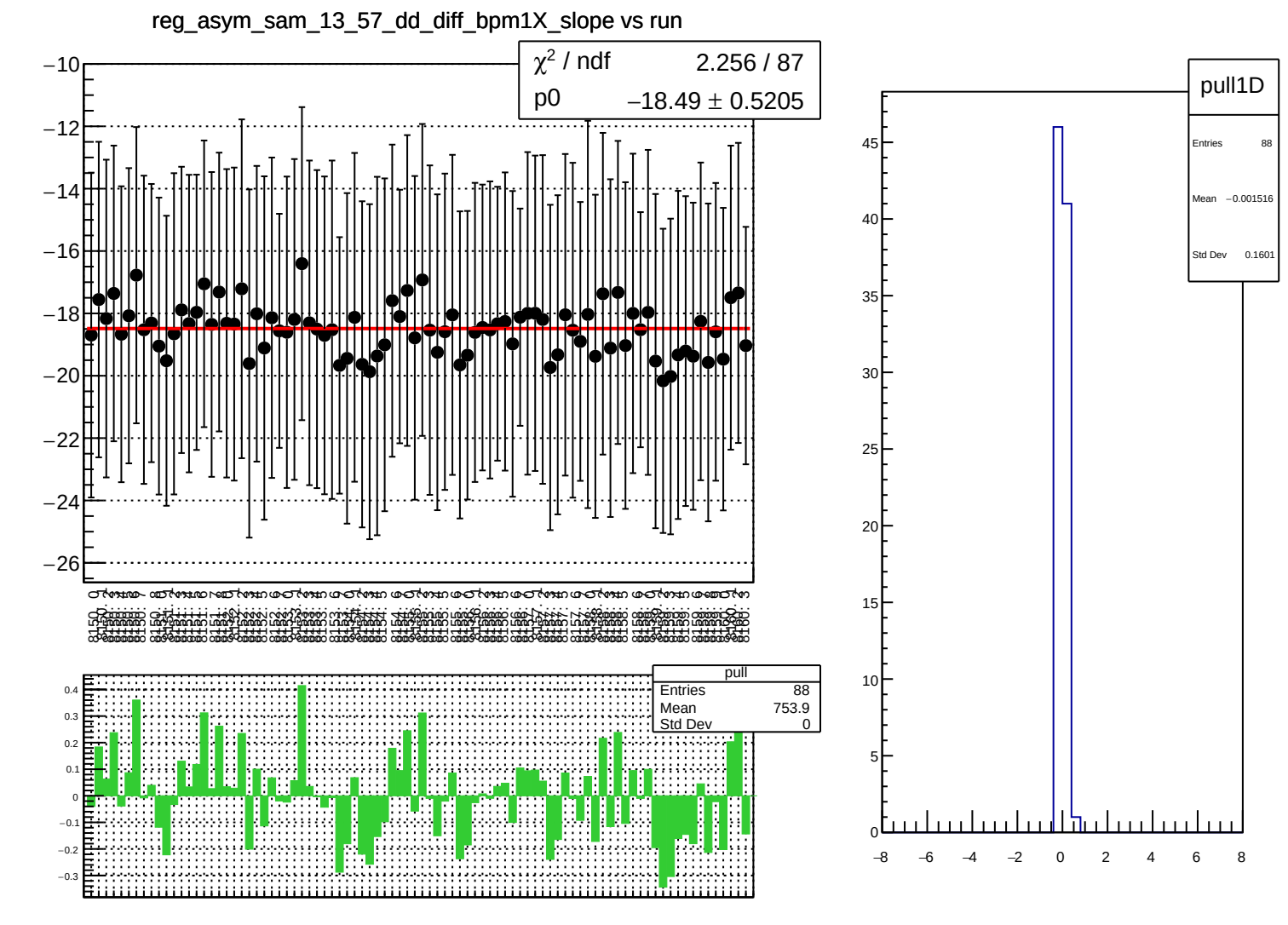

pull1D
Entries 88
Mean −0.002223
Std Dev 0.1461

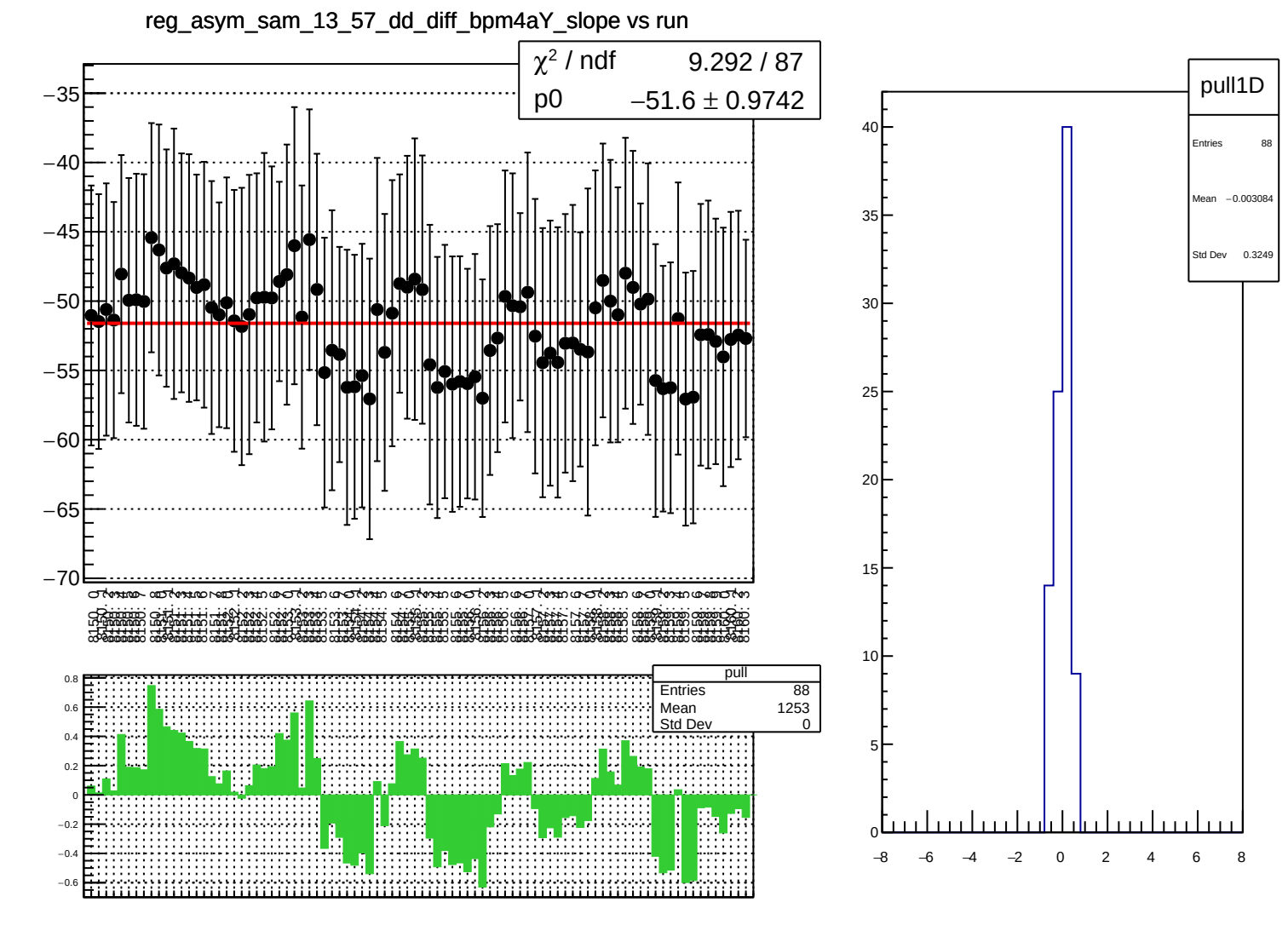

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.9687 / 87
p0 −71.13 ± 1.394
pull
Entries 88
Mean −578.1
Std Dev 0
pull1D
Entries 88
Mean 0.001734
Std Dev 0.1049

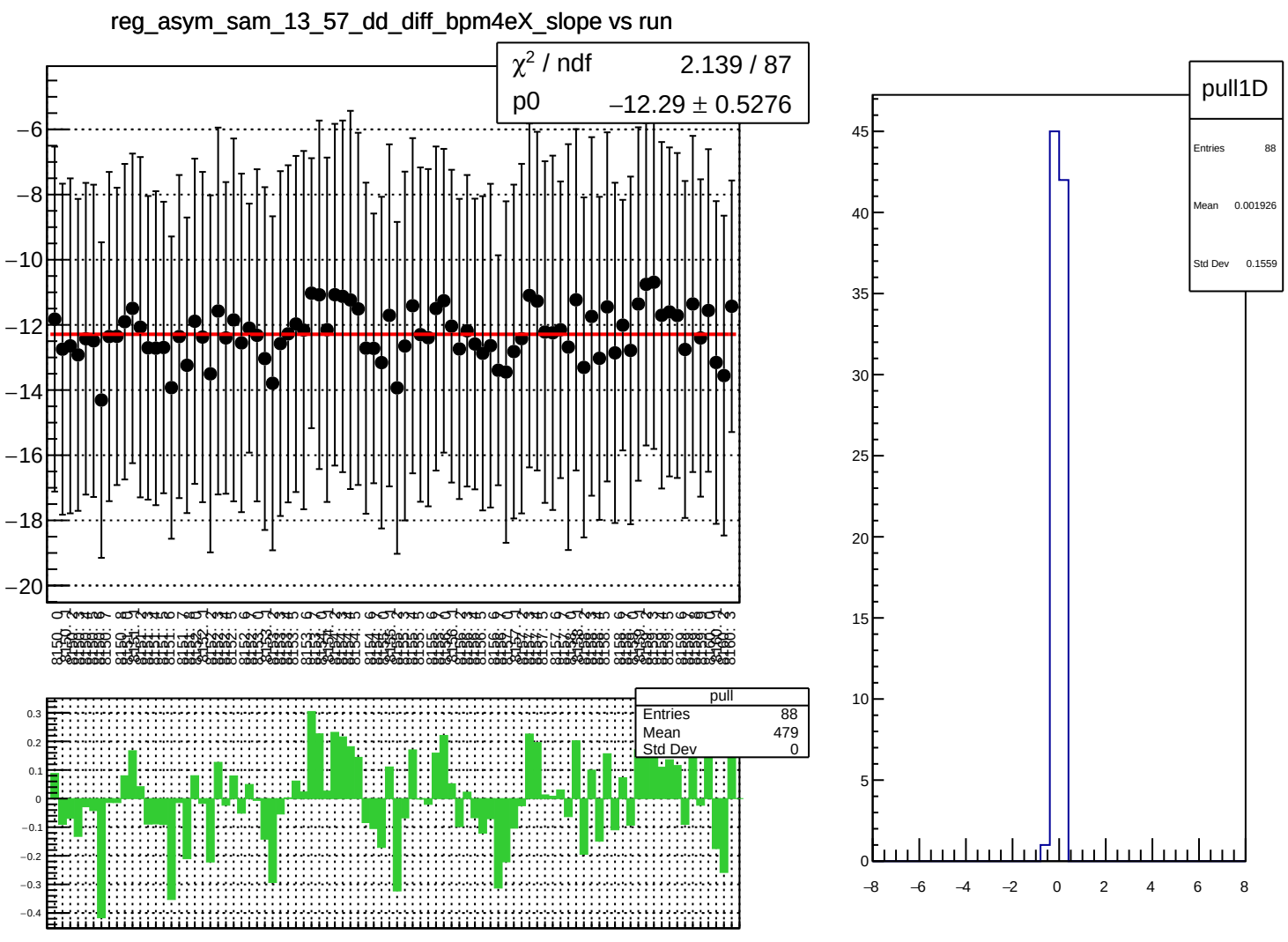

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.794 / 87
p0 60.19 ± 2.76
pull
Entries 88
Mean −809.7
Std Dev 0

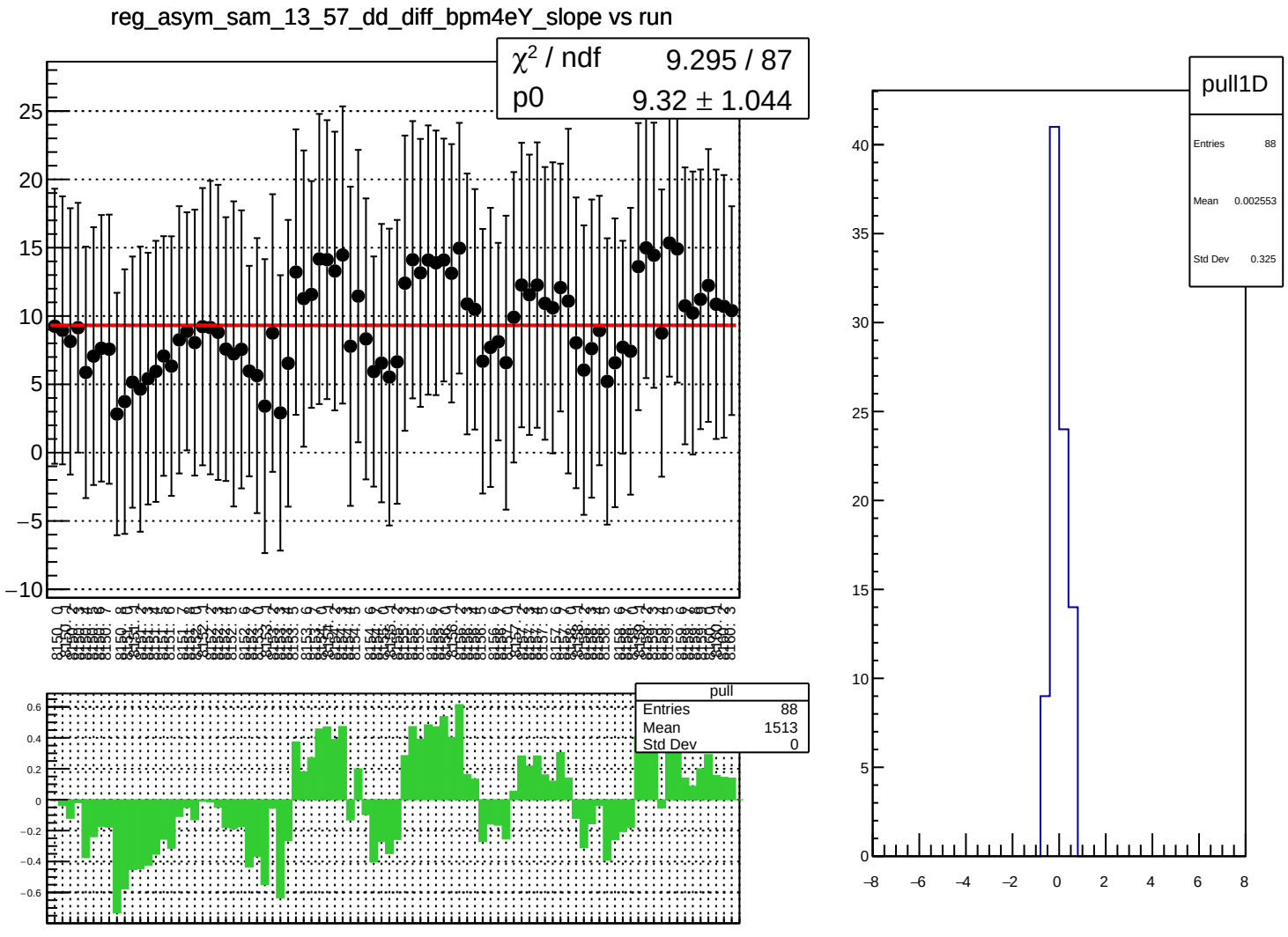

pull1D
Entries 88
Mean 0.002168
Std Dev 0.1428

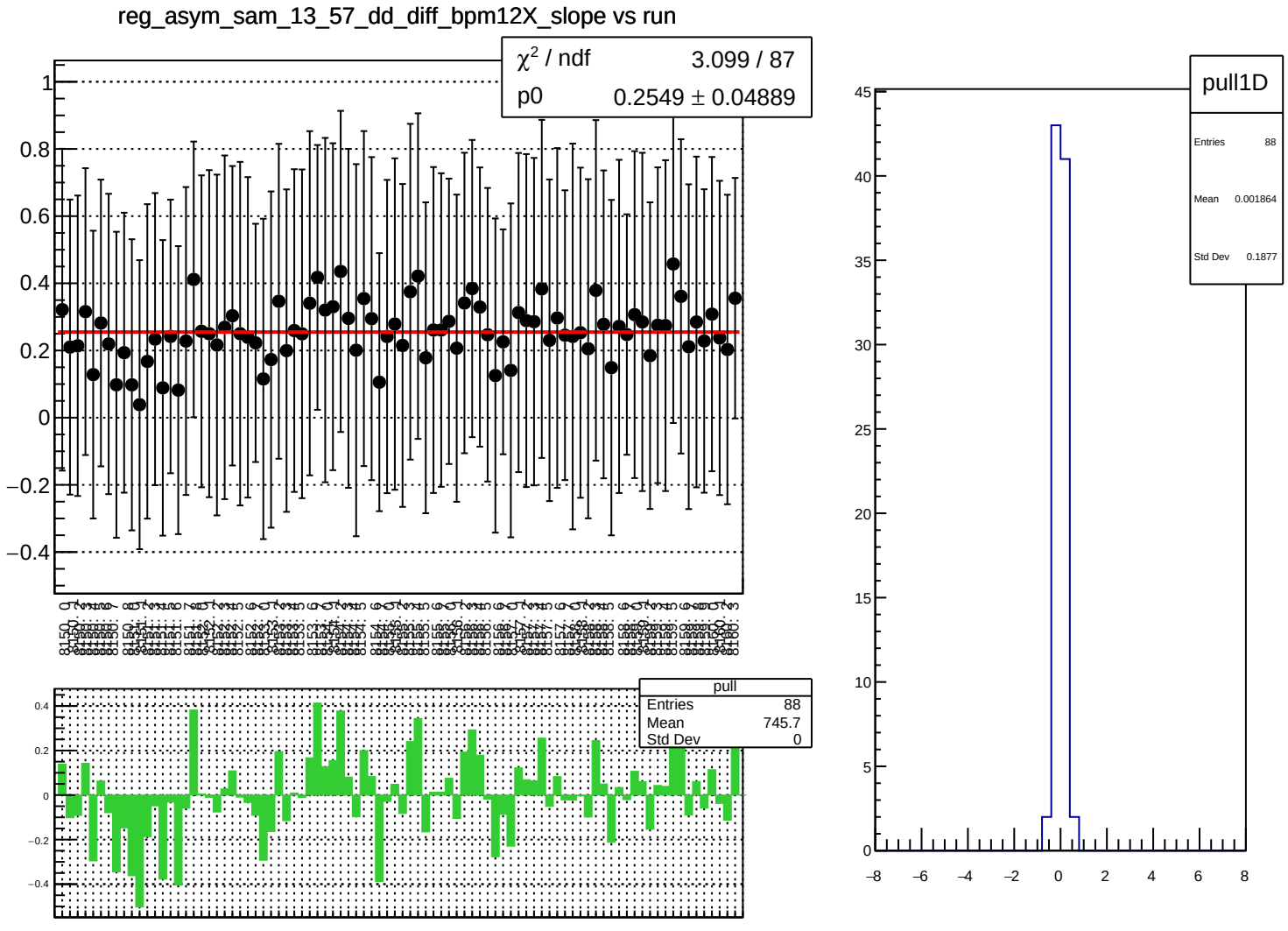

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8374 / 87
p0 0.2517 ± 0.1293
pull
Entries 88
Mean −211.1
Std Dev 0
pull1D
Entries 88
Mean 0.001245
Std Dev 0.09754

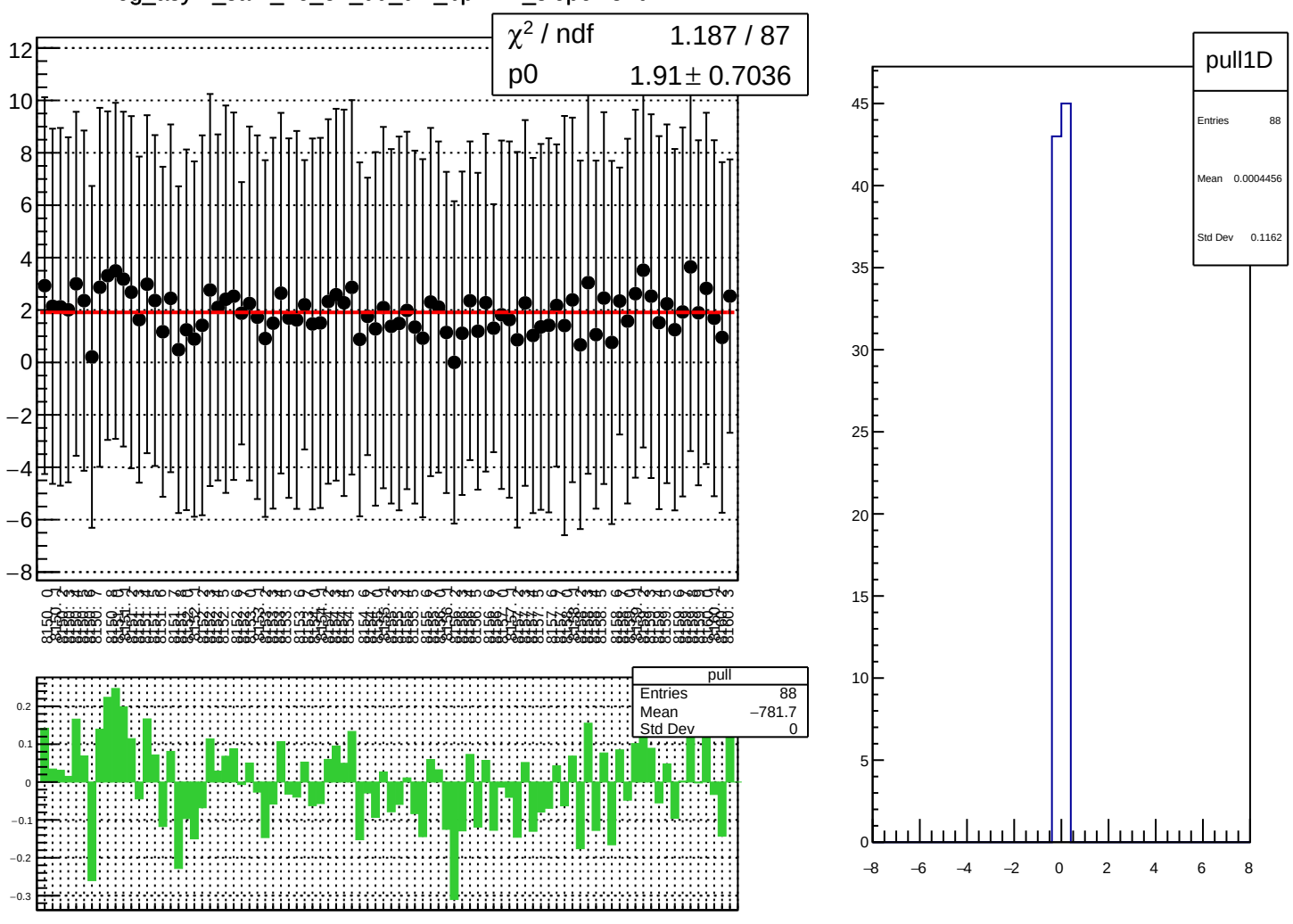

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 2.256 / 87
p0 −18.49 ± 0.5205
pull
Entries 88
Mean 753.9
Std Dev 0
pull1D
Entries 88
Mean −0.001516
Std Dev 0.1601

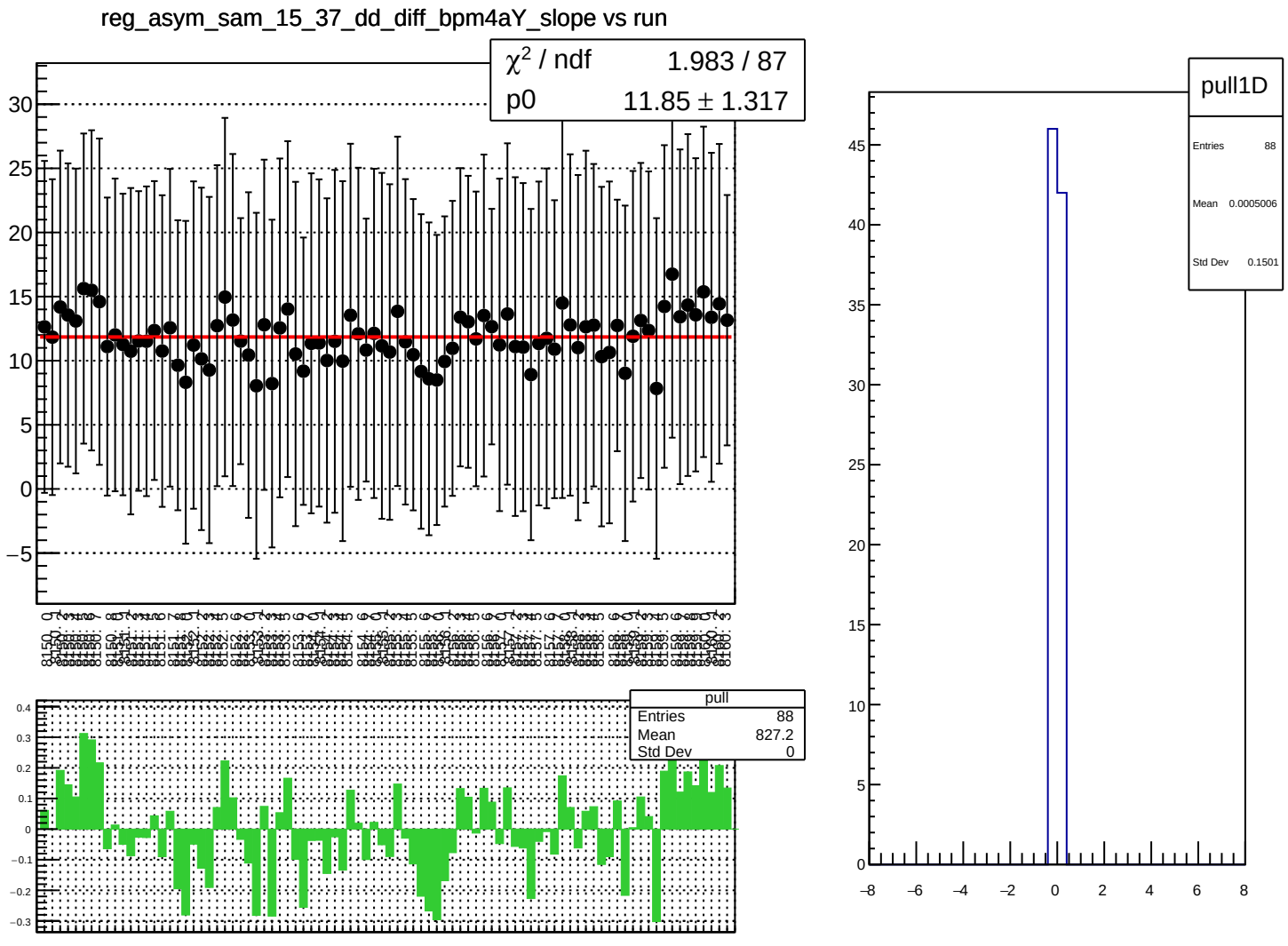

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.292 / 87
p0 −51.6 ± 0.9742
pull
Entries 88
Mean 1253
Std Dev 0
pull1D
Entries 88
Mean −0.003084
Std Dev 0.3249

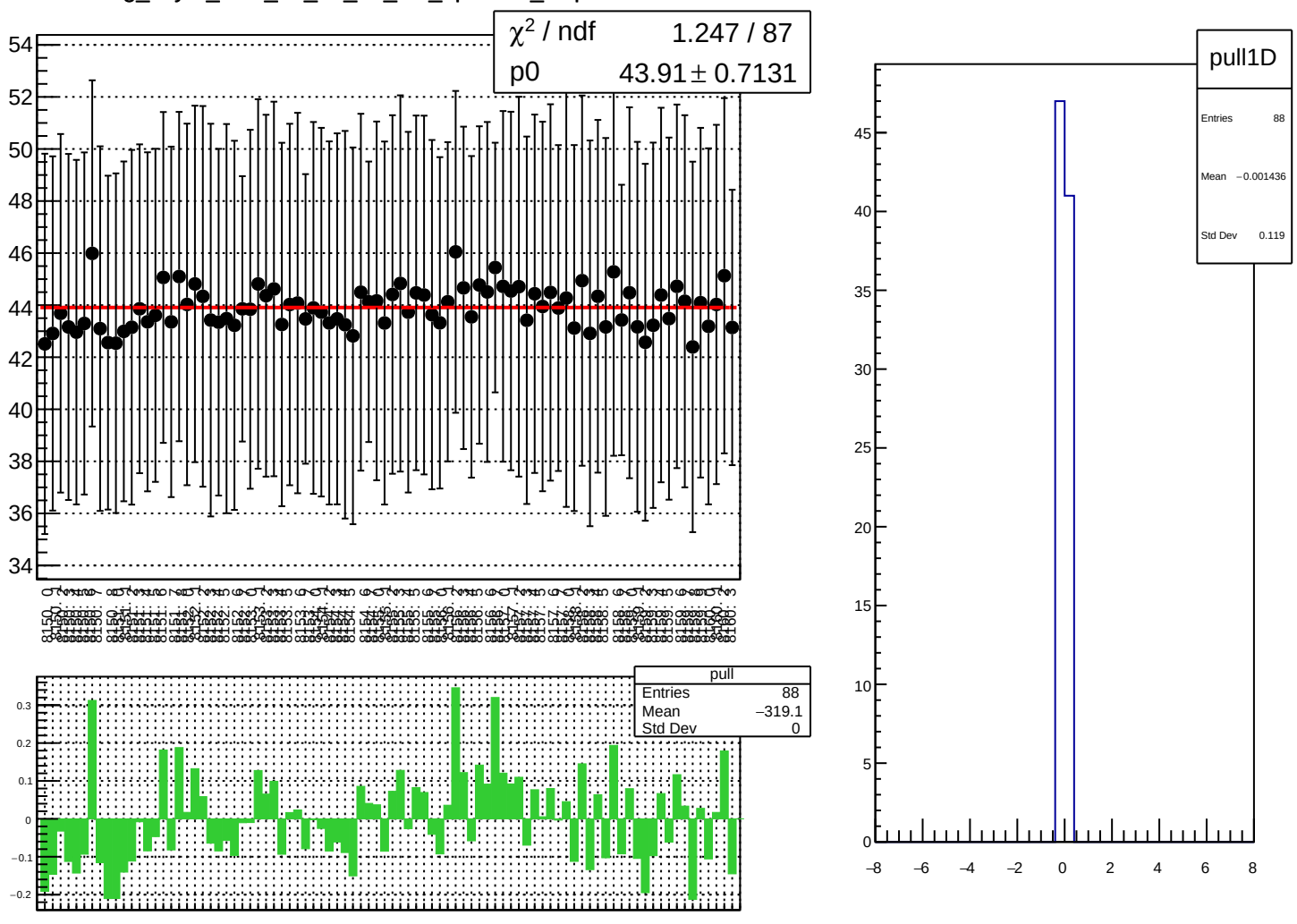

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.139 / 87
p0 −12.29 ± 0.5276
pull
Entries 88
Mean 479
Std Dev 0
pull1D
Entries 88
Mean 0.001926
Std Dev 0.1559

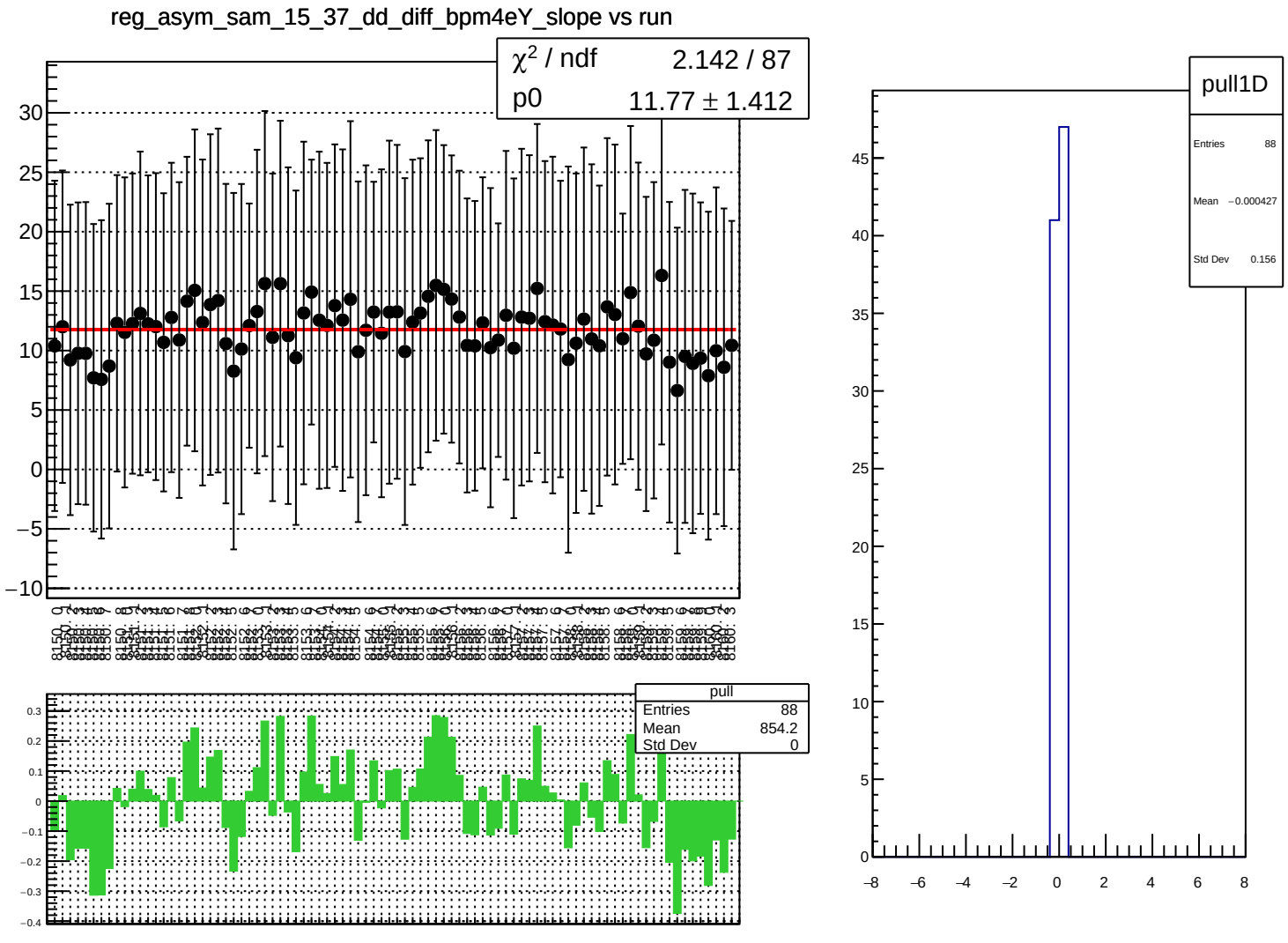

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.295 / 87
p0 9.32 ± 1.044
pull
Entries 88
Mean 1513
Std Dev 0
pull1D
Entries 88
Mean 0.002553
Std Dev 0.325

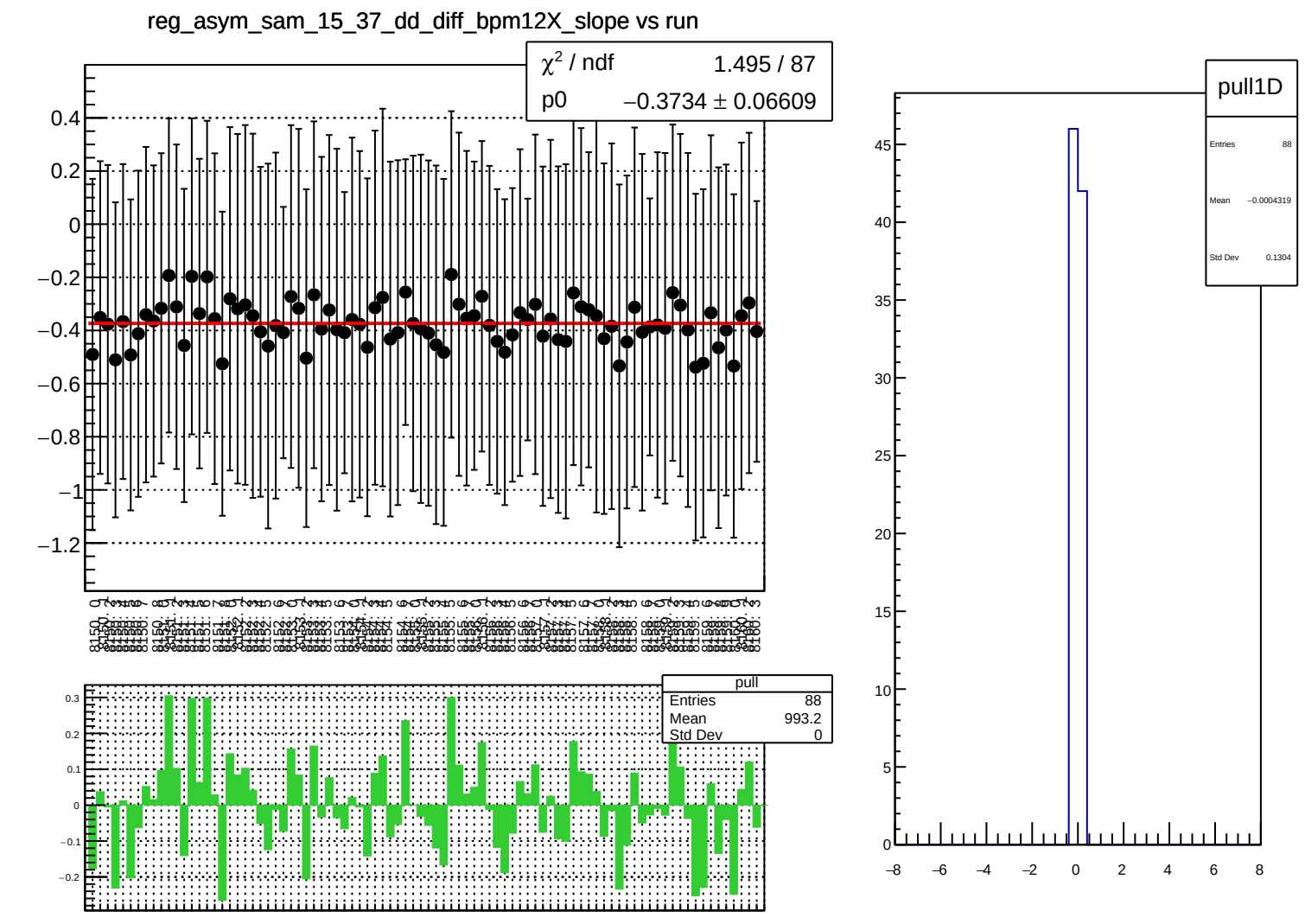

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 3.099 / 87
p0 0.2549 ± 0.04889
pull
Entries 88
Mean 745.7
Std Dev 0
pull1D
Entries 88
Mean 0.001864
Std Dev 0.1877

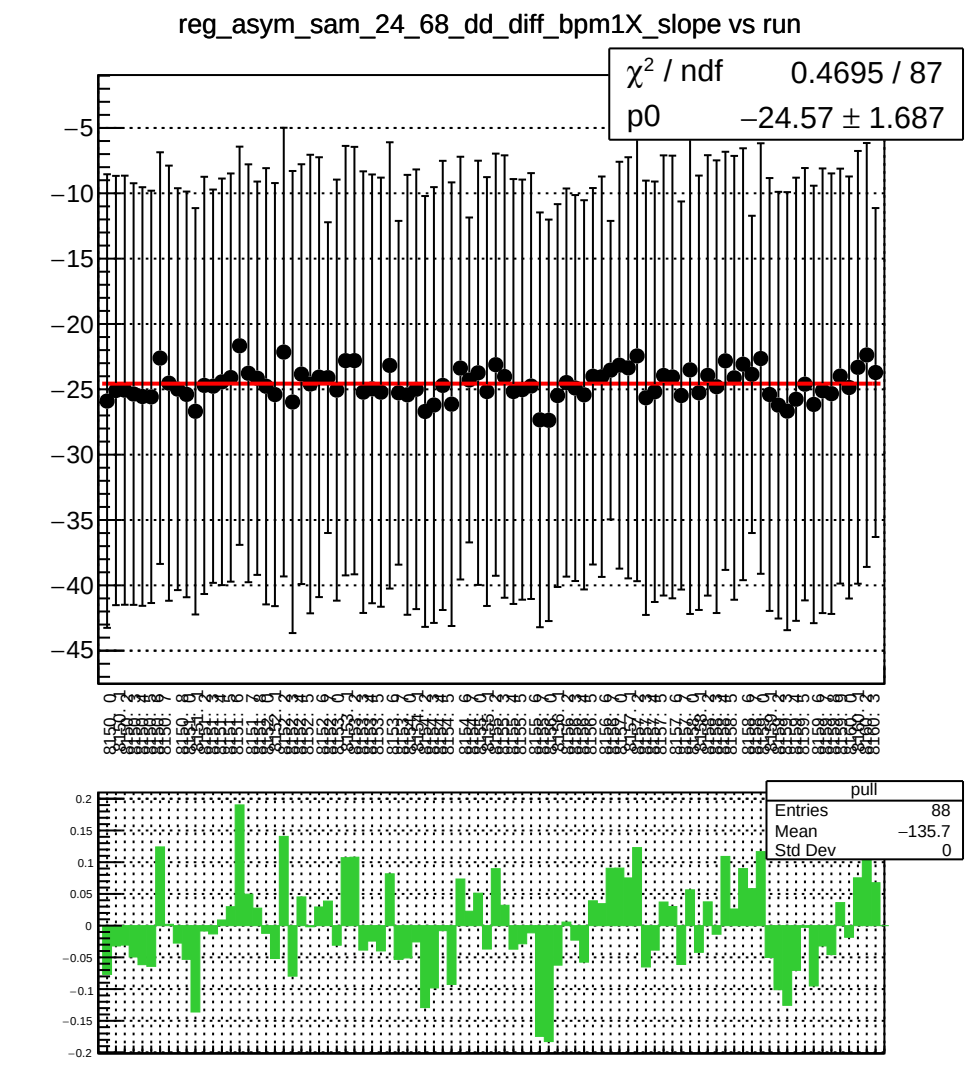

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 1.187 / 87
p0 1.91 ± 0.7036
pull
Entries 88
Mean −781.7
Std Dev 0
pull1D
Entries 88
Mean 0.0004456
Std Dev 0.1162

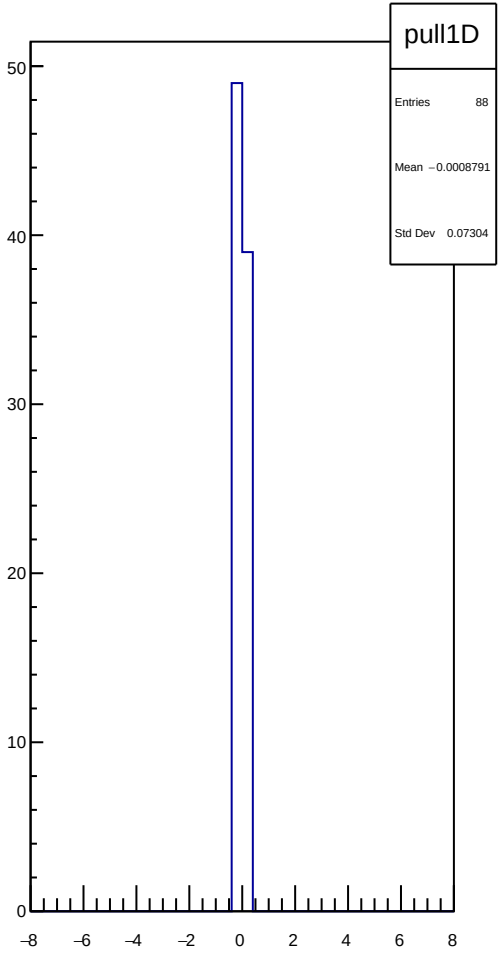

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.983 / 87
p0 11.85 ± 1.317
pull
Entries 88
Mean 827.2
Std Dev 0
pull1D
Entries 88
Mean 0.0005006
Std Dev 0.1501

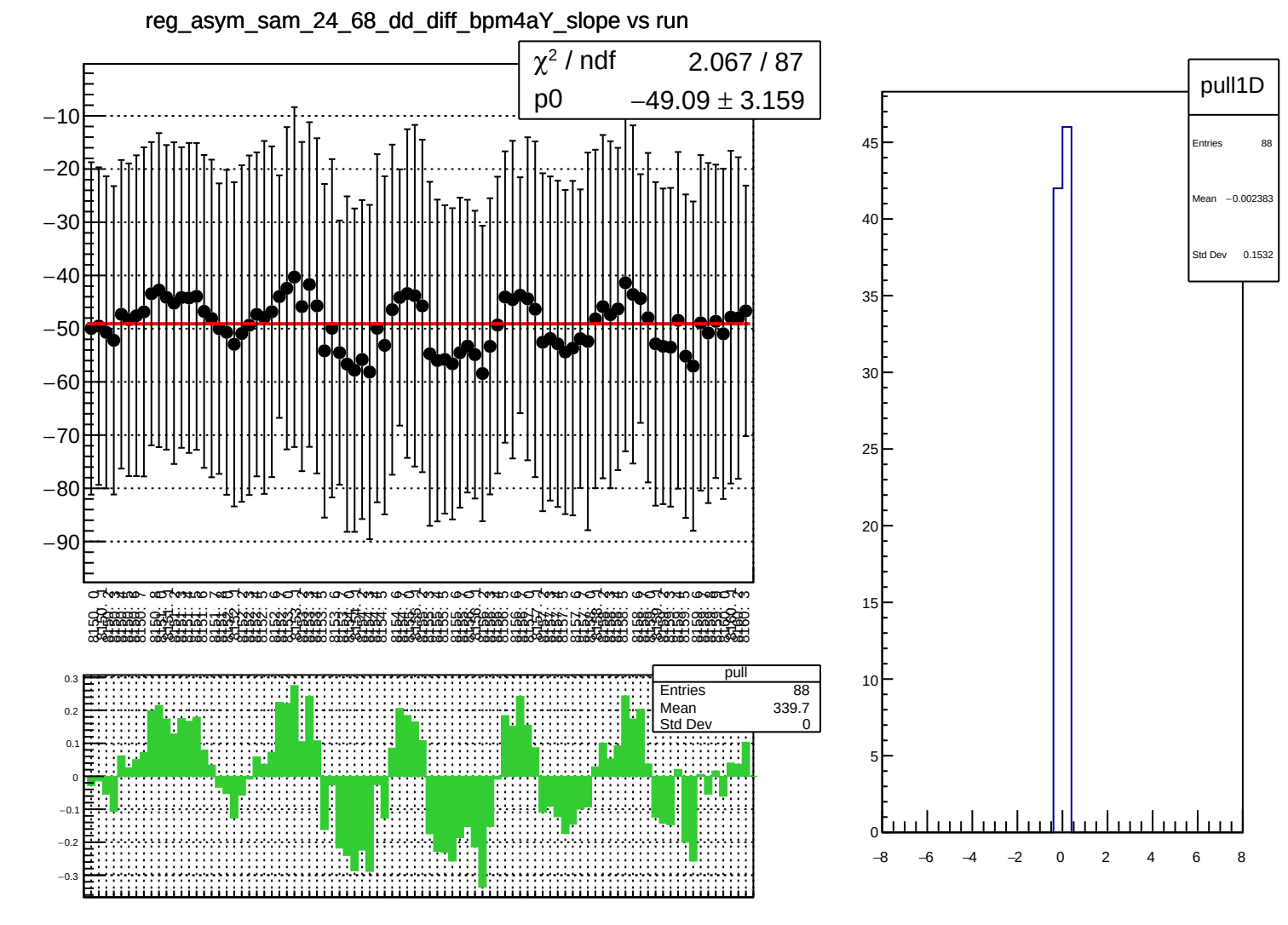

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.247 / 87
p0 43.91 ± 0.7131
pull
Entries 88
Mean −319.1
Std Dev 0
pull1D
Entries 88
Mean −0.001436
Std Dev 0.119

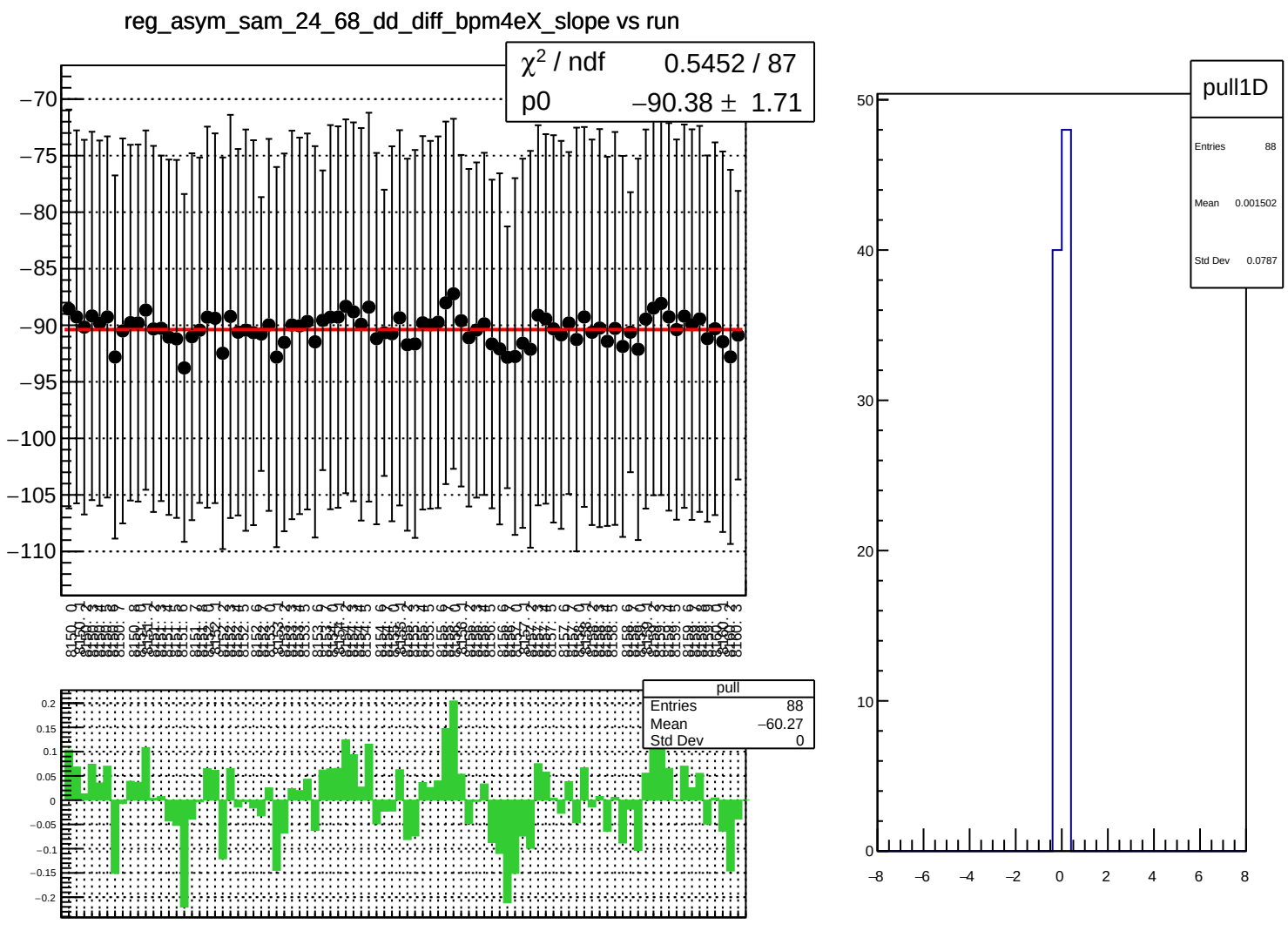

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.142 / 87
p0 11.77 ± 1.412
pull
Entries 88
Mean 854.2
Std Dev 0
pull1D
Entries 88
Mean −0.000427
Std Dev 0.156

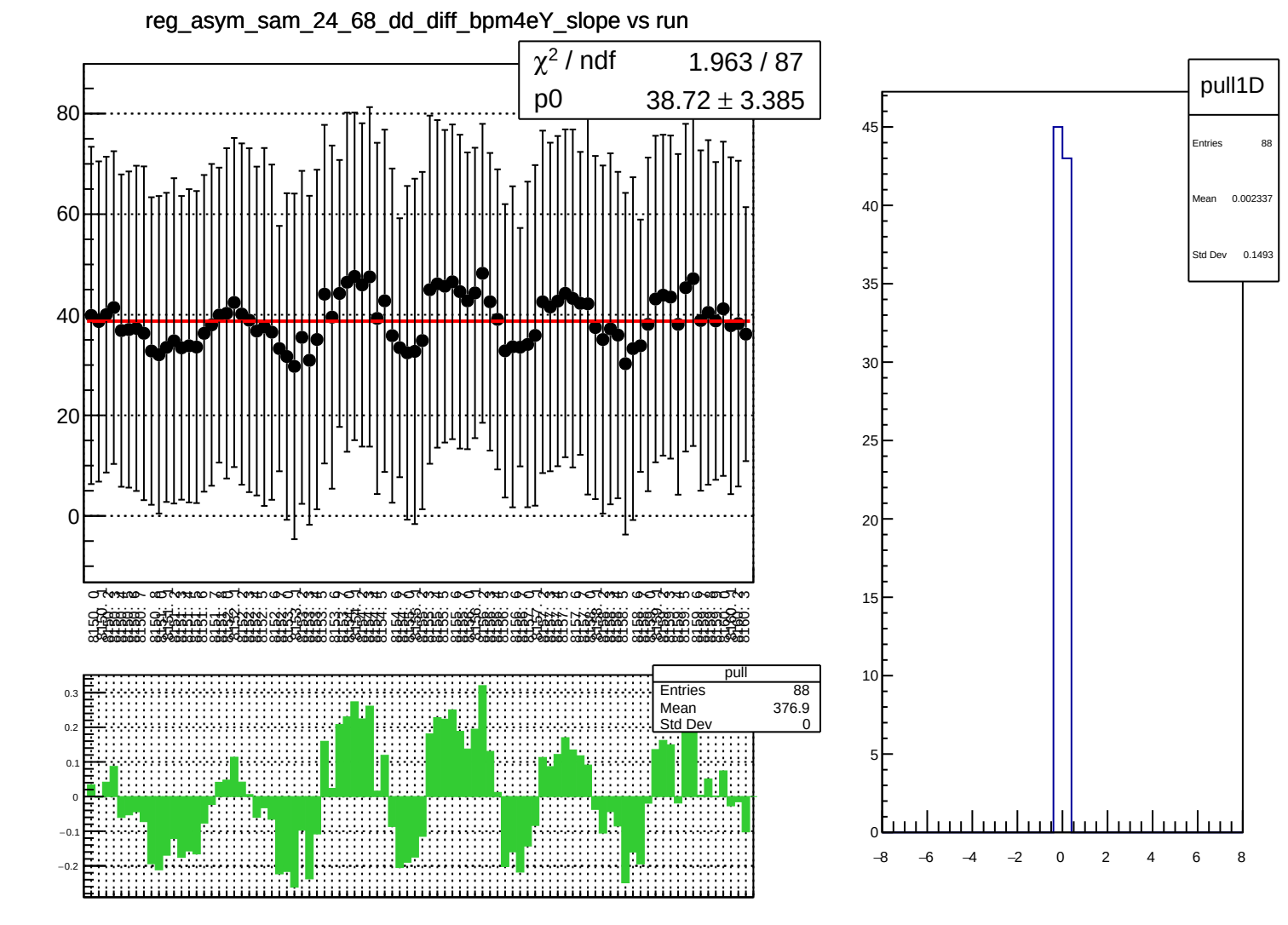

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.495 / 87
p0 −0.3734 ± 0.06609
pull
Entries 88
Mean 993.2
Std Dev 0
pull1D
Entries 88
Mean −0.0004319
Std Dev 0.1304

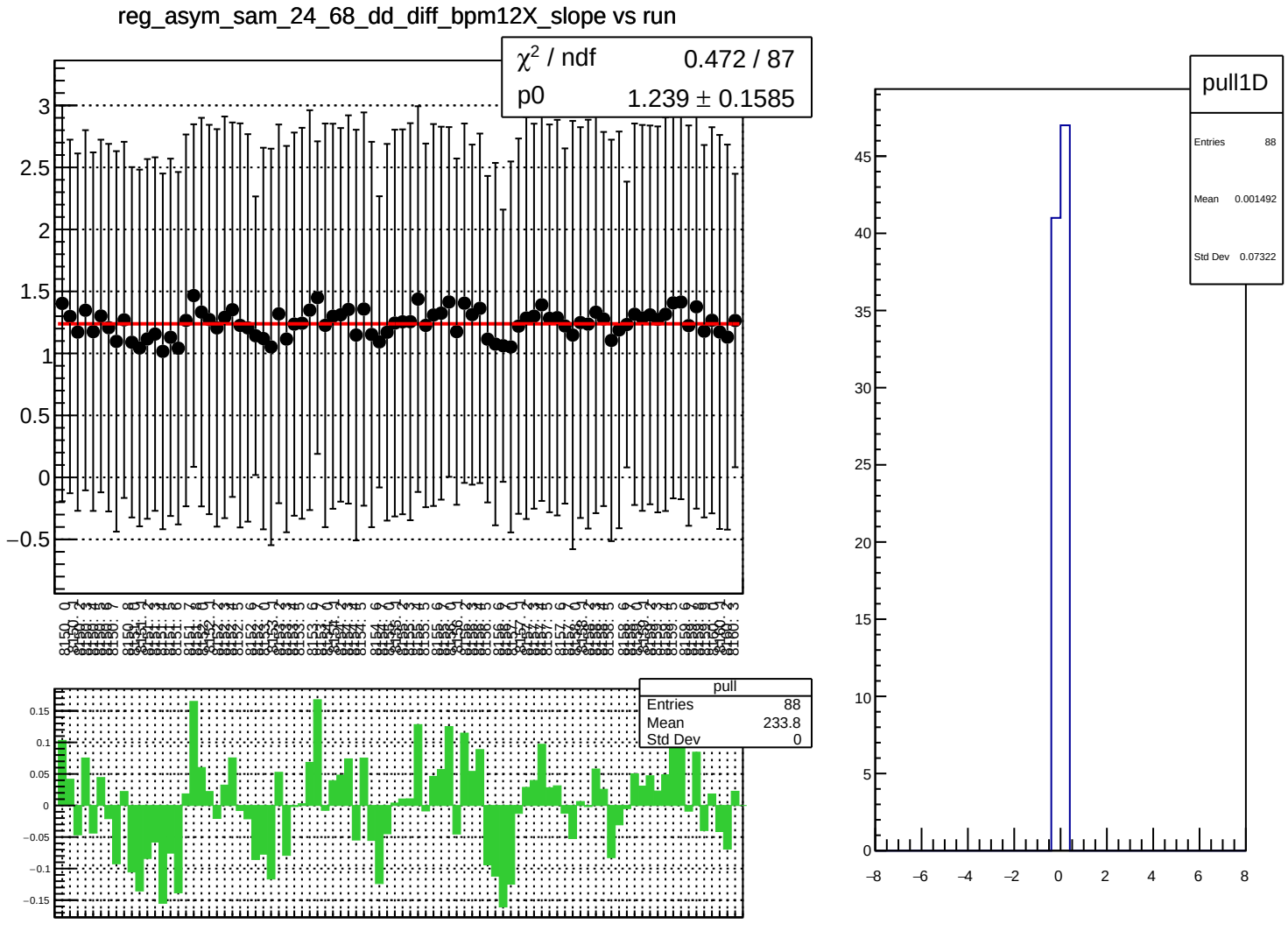

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.4695 / 87
p0 −24.57 ± 1.687
pull
Entries 88
Mean −135.7
Std Dev 0

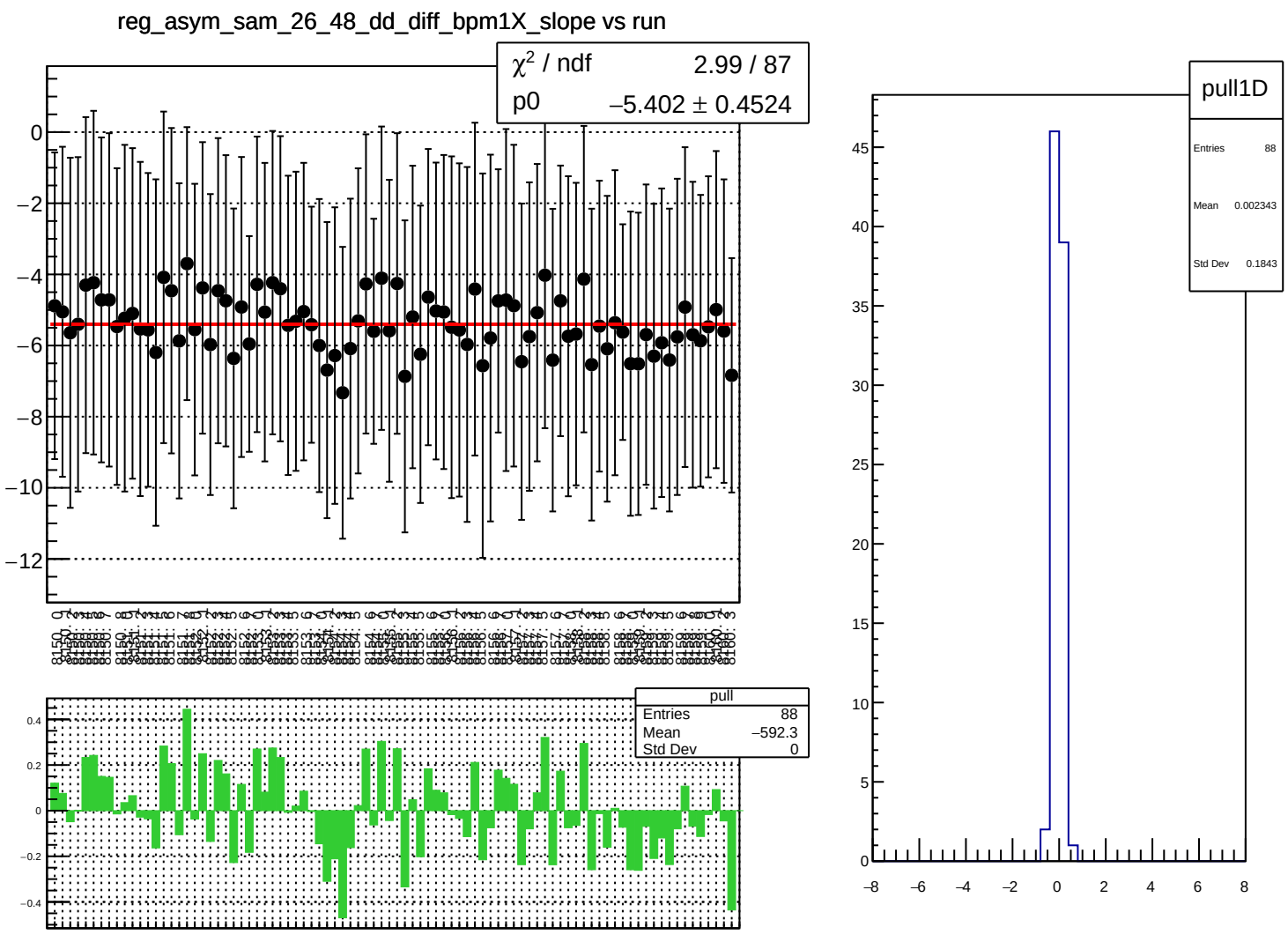

pull1D
Entries 88
Mean −0.0008791
Std Dev 0.07304

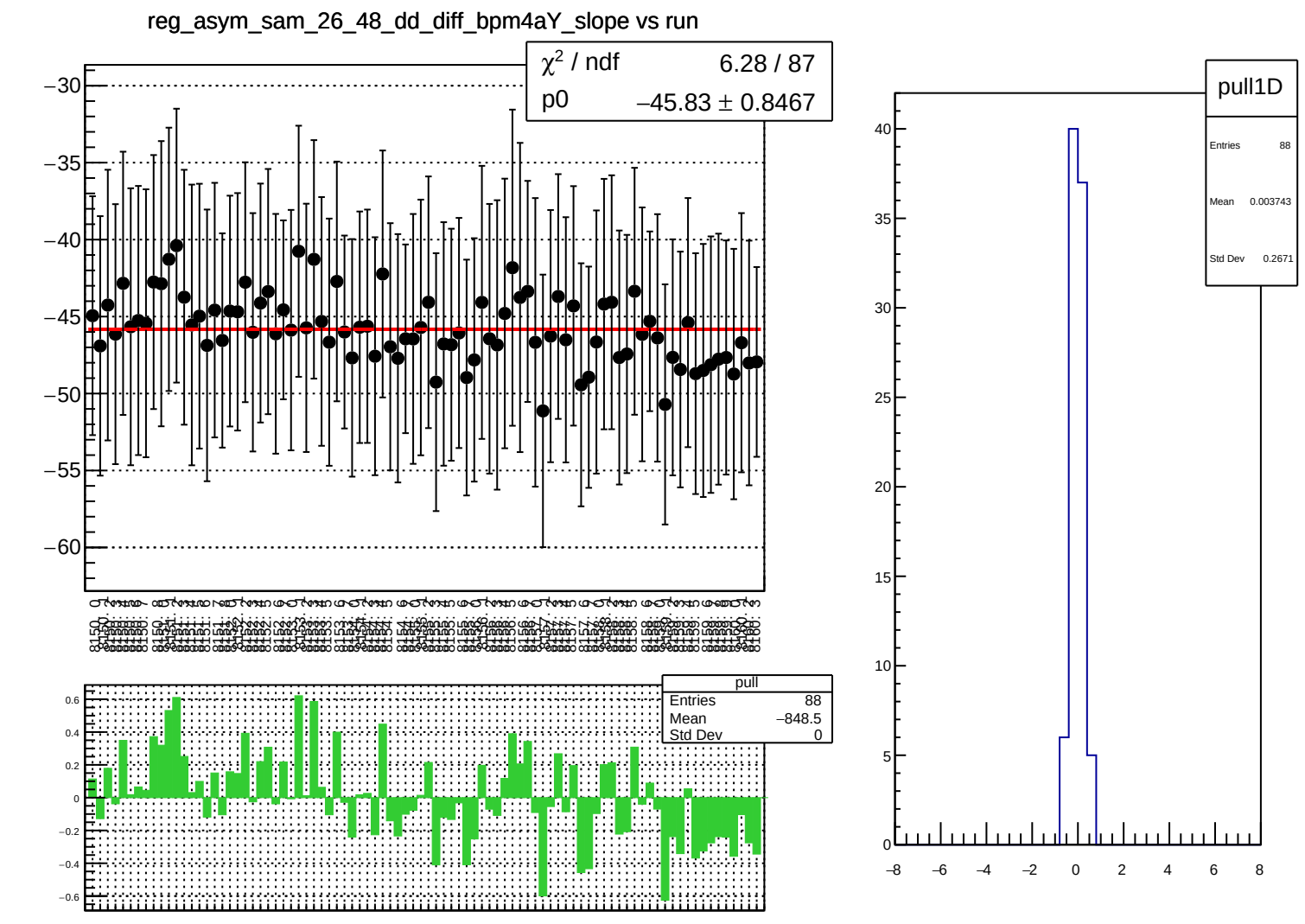

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.067 / 87
p0 −49.09 ± 3.159
pull
Entries 88
Mean 339.7
Std Dev 0
pull1D
Entries 88
Mean −0.002383
Std Dev 0.1532

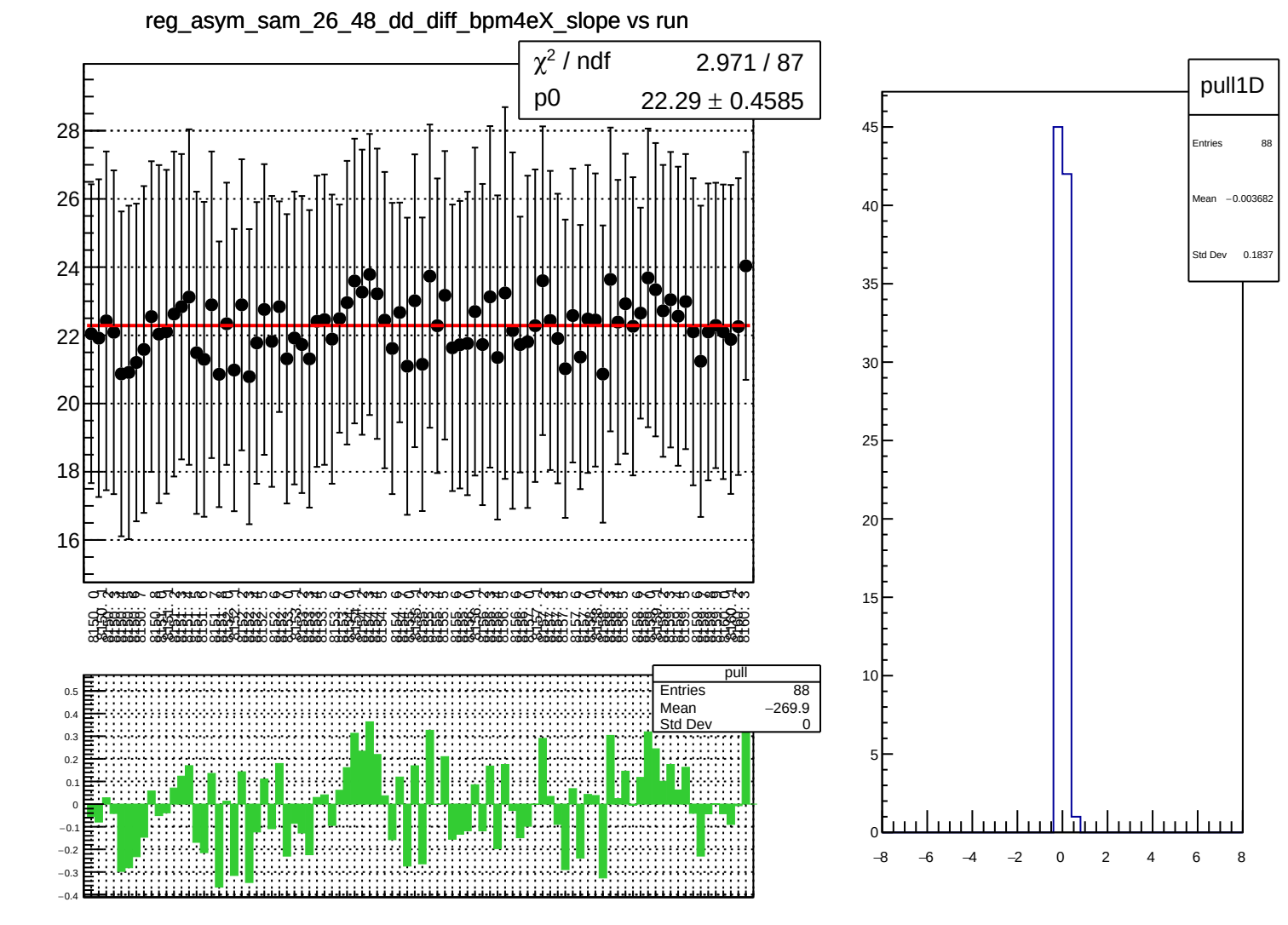

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5452 / 87
p0 −90.38 ± 1.71
pull
Entries 88
Mean −60.27
Std Dev 0
pull1D
Entries 88
Mean 0.001502
Std Dev 0.0787

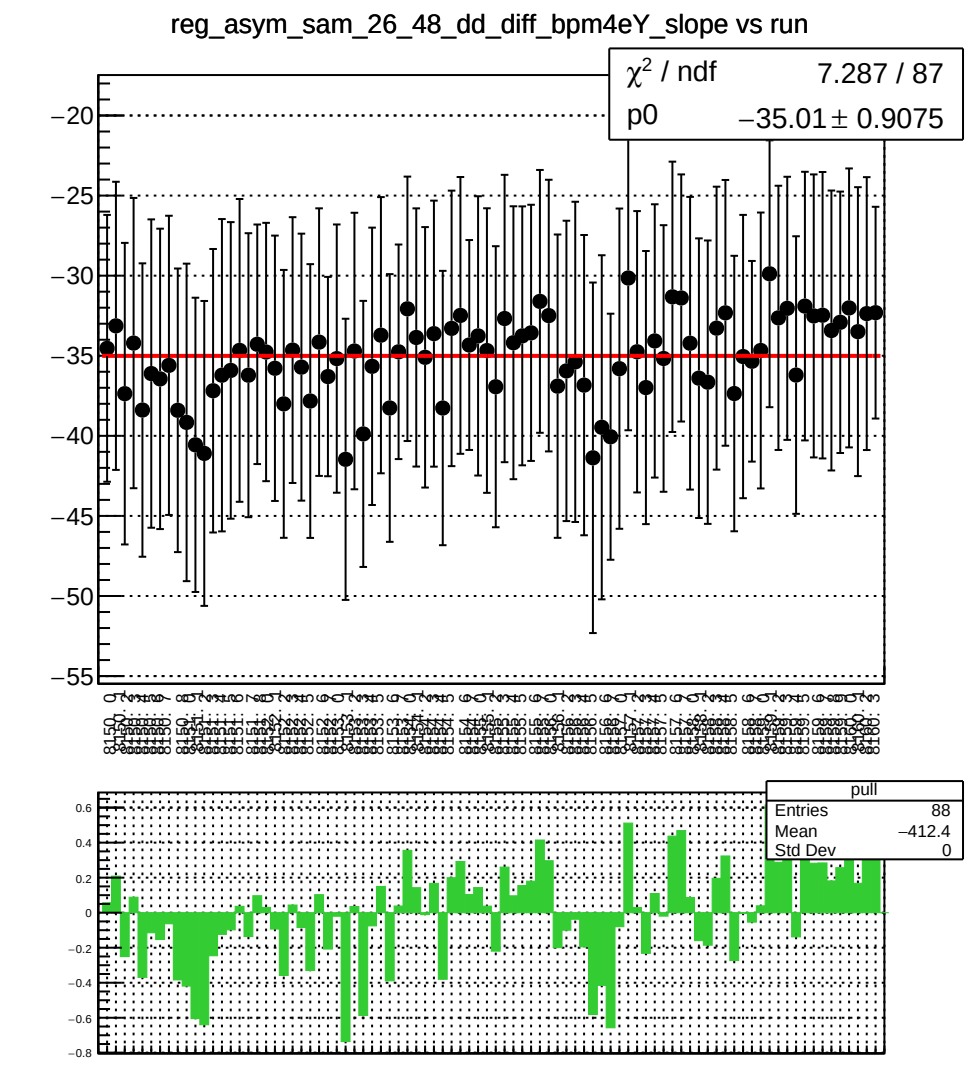

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.963 / 87
p0 38.72 ± 3.385
pull
Entries 88
Mean 376.9
Std Dev 0
pull1D
Entries 88
Mean 0.002337
Std Dev 0.1493

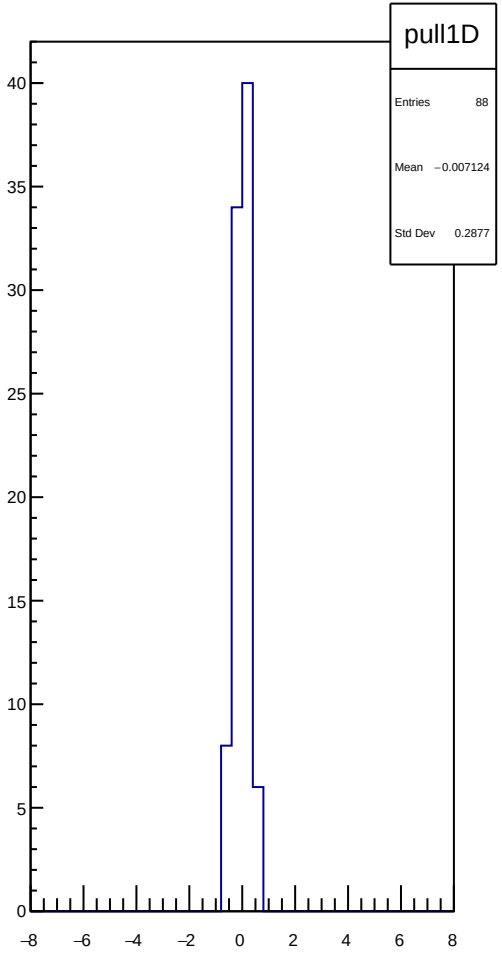

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.472 / 87
p0 1.239 ± 0.1585
pull
Entries 88
Mean 233.8
Std Dev 0
pull1D
Entries 88
Mean 0.001492
Std Dev 0.07322

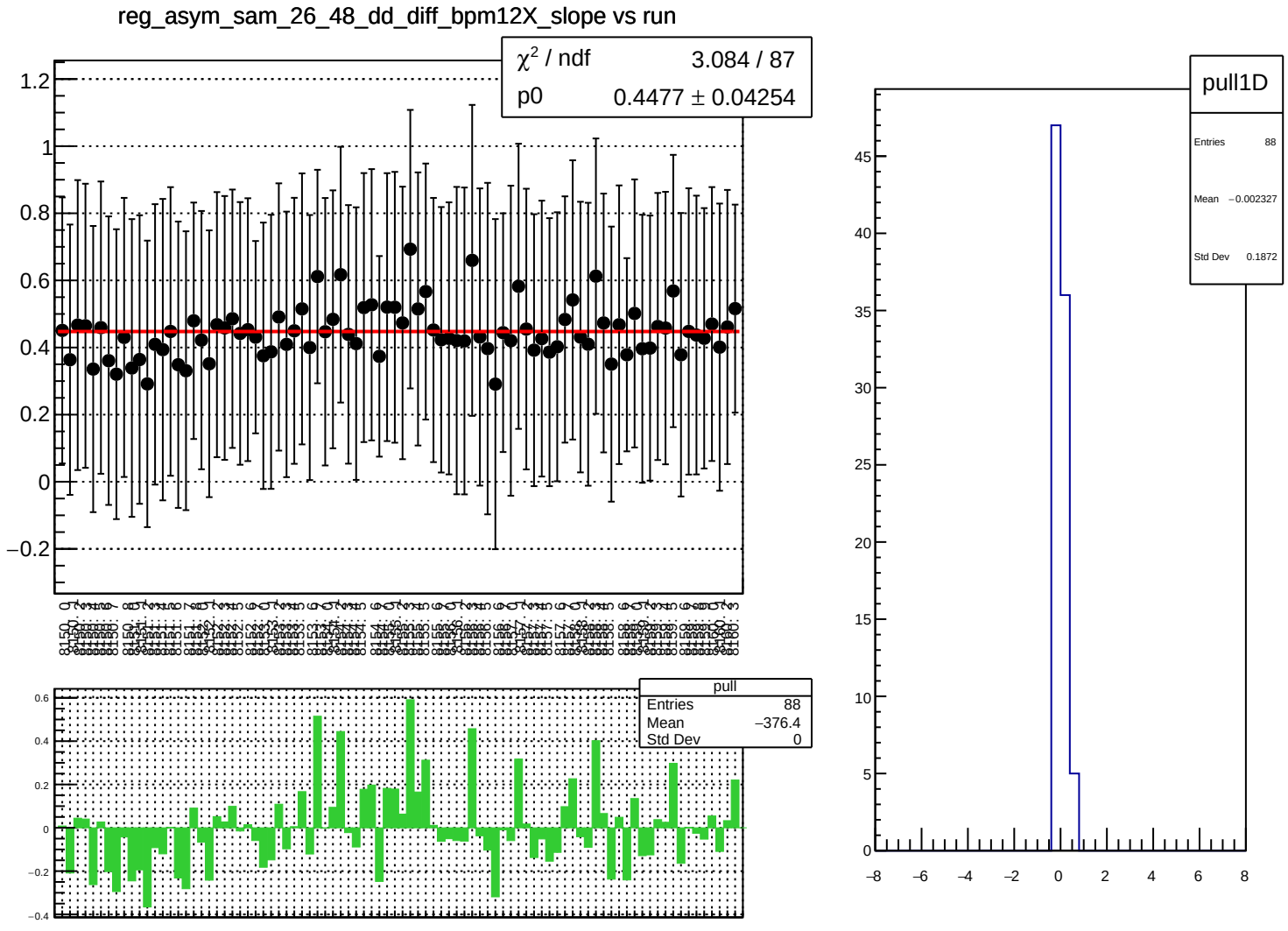

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.99 / 87
p0 −5.402 ± 0.4524
pull
Entries 88
Mean −592.3
Std Dev 0
pull1D
Entries 88
Mean 0.002343
Std Dev 0.1843

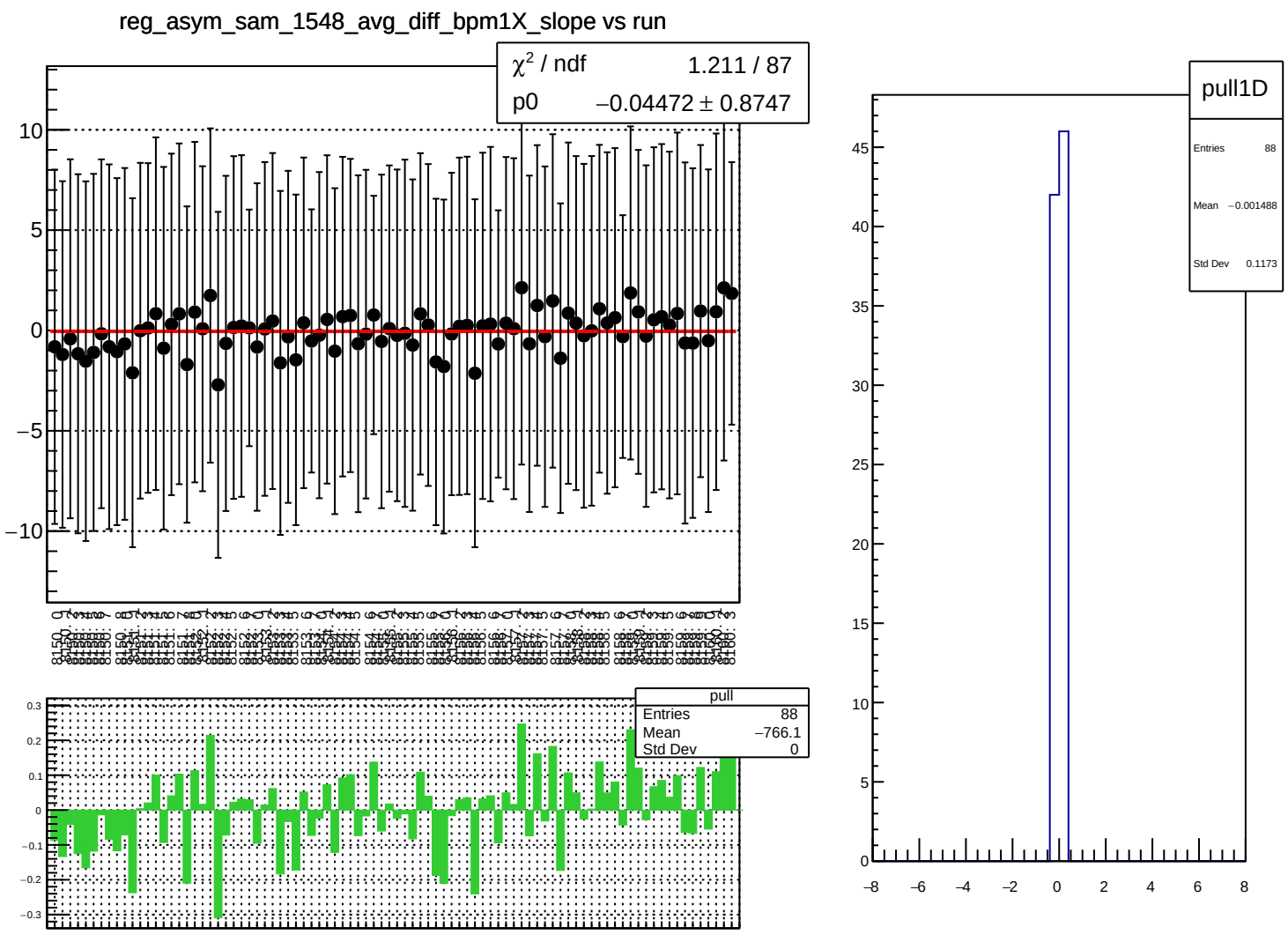

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.28 / 87
p0 −45.83 ± 0.8467
pull
Entries 88
Mean −848.5
Std Dev 0
pull1D
Entries 88
Mean 0.003743
Std Dev 0.2671

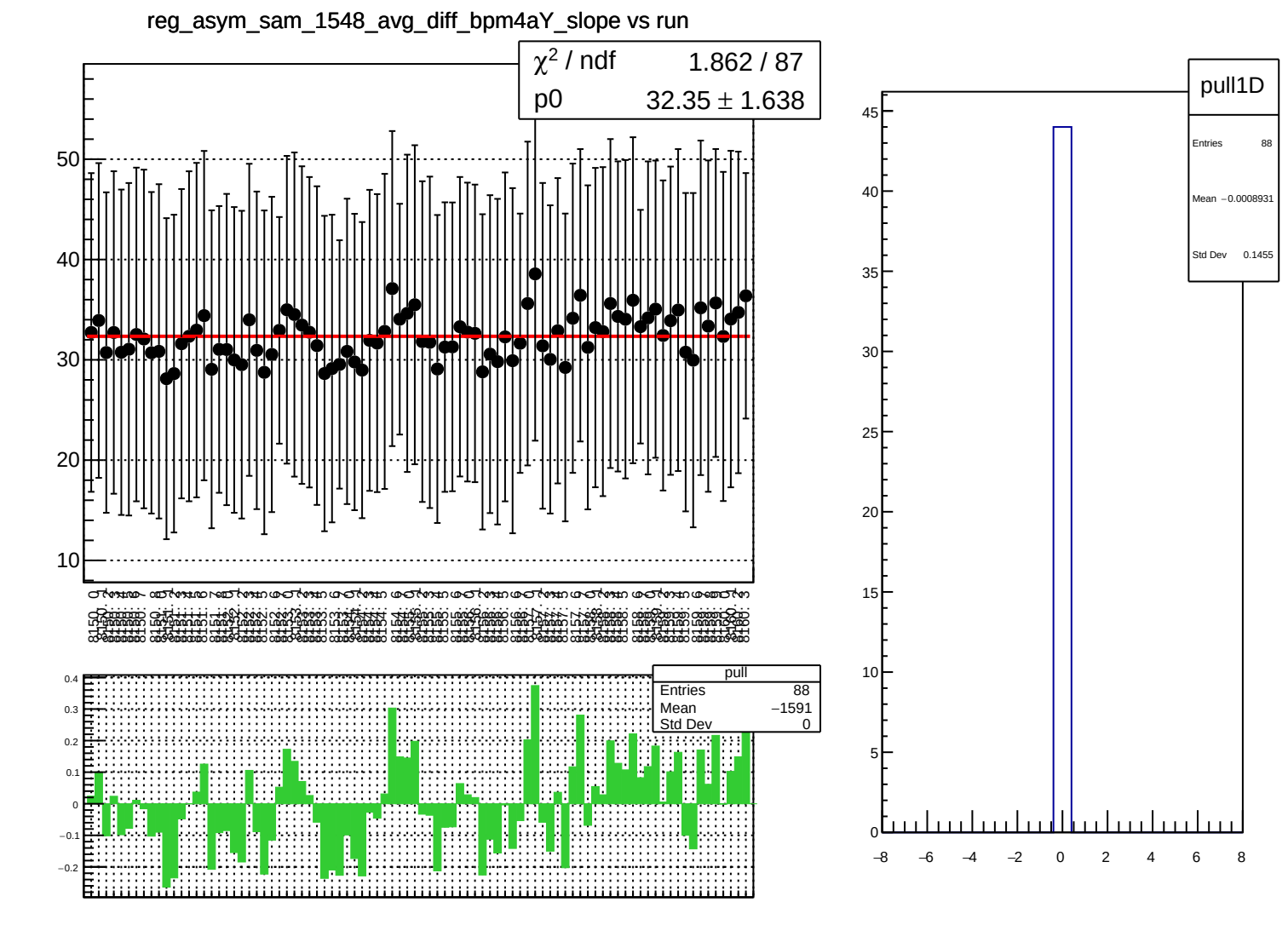

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.971 / 87
p0 22.29 ± 0.4585
pull
Entries 88
Mean −269.9
Std Dev 0
pull1D
Entries 88
Mean −0.003682
Std Dev 0.1837

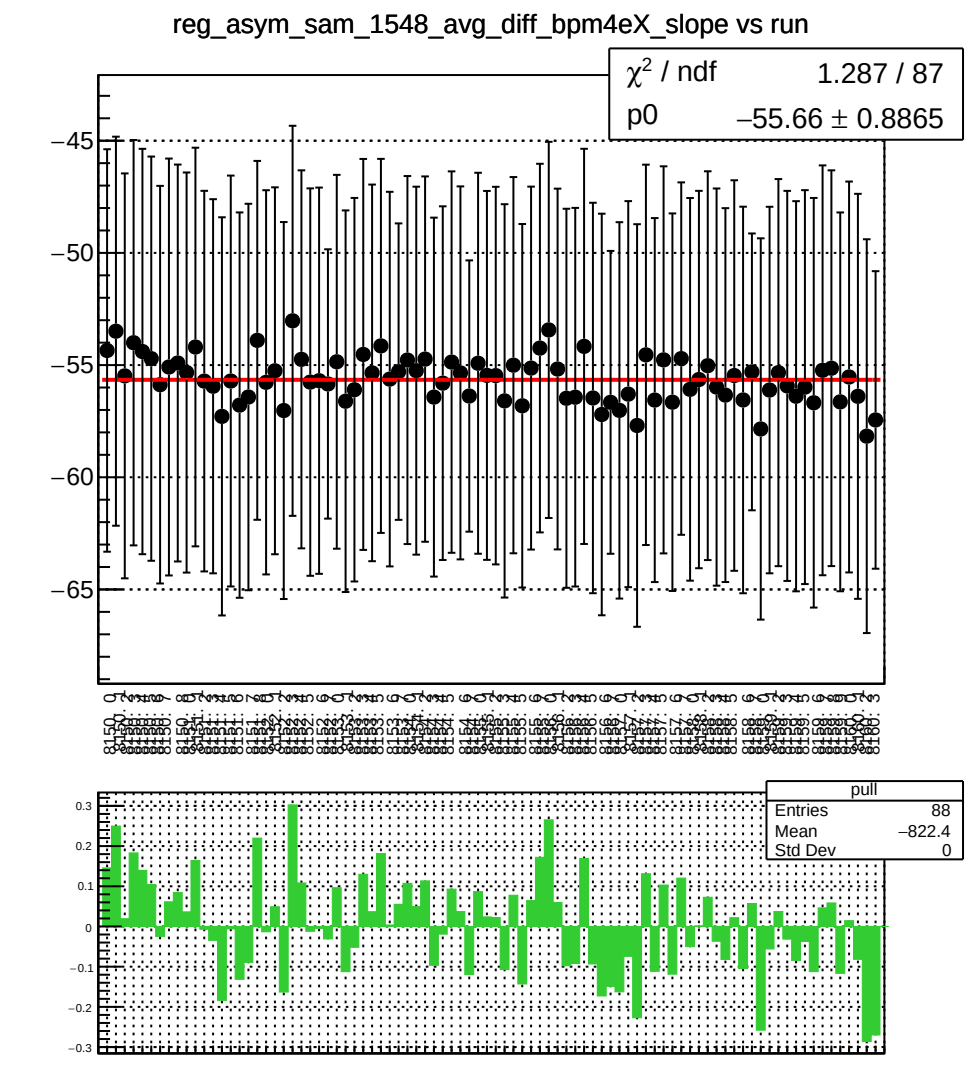

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.287 / 87
p0 −35.01 ± 0.9075
pull
Entries 88
Mean −412.4
Std Dev 0

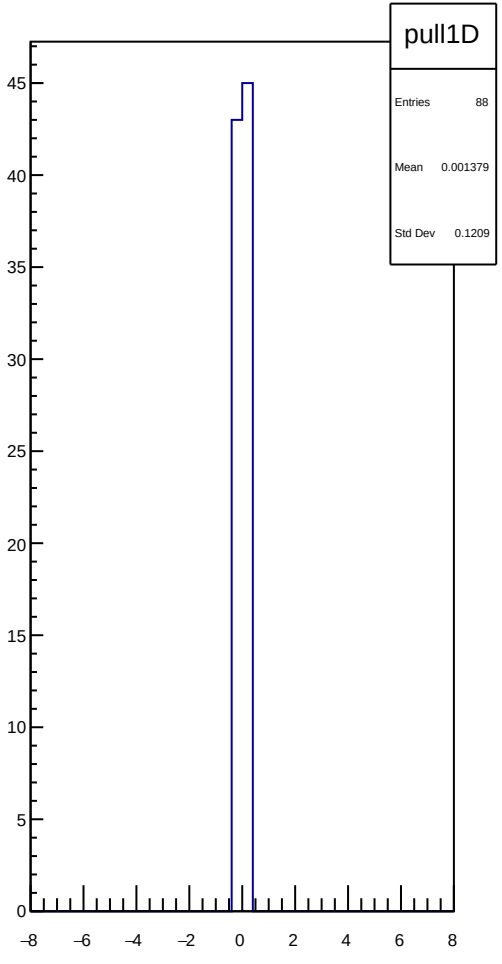

pull1D
Entries 88
Mean −0.007124
Std Dev 0.2877

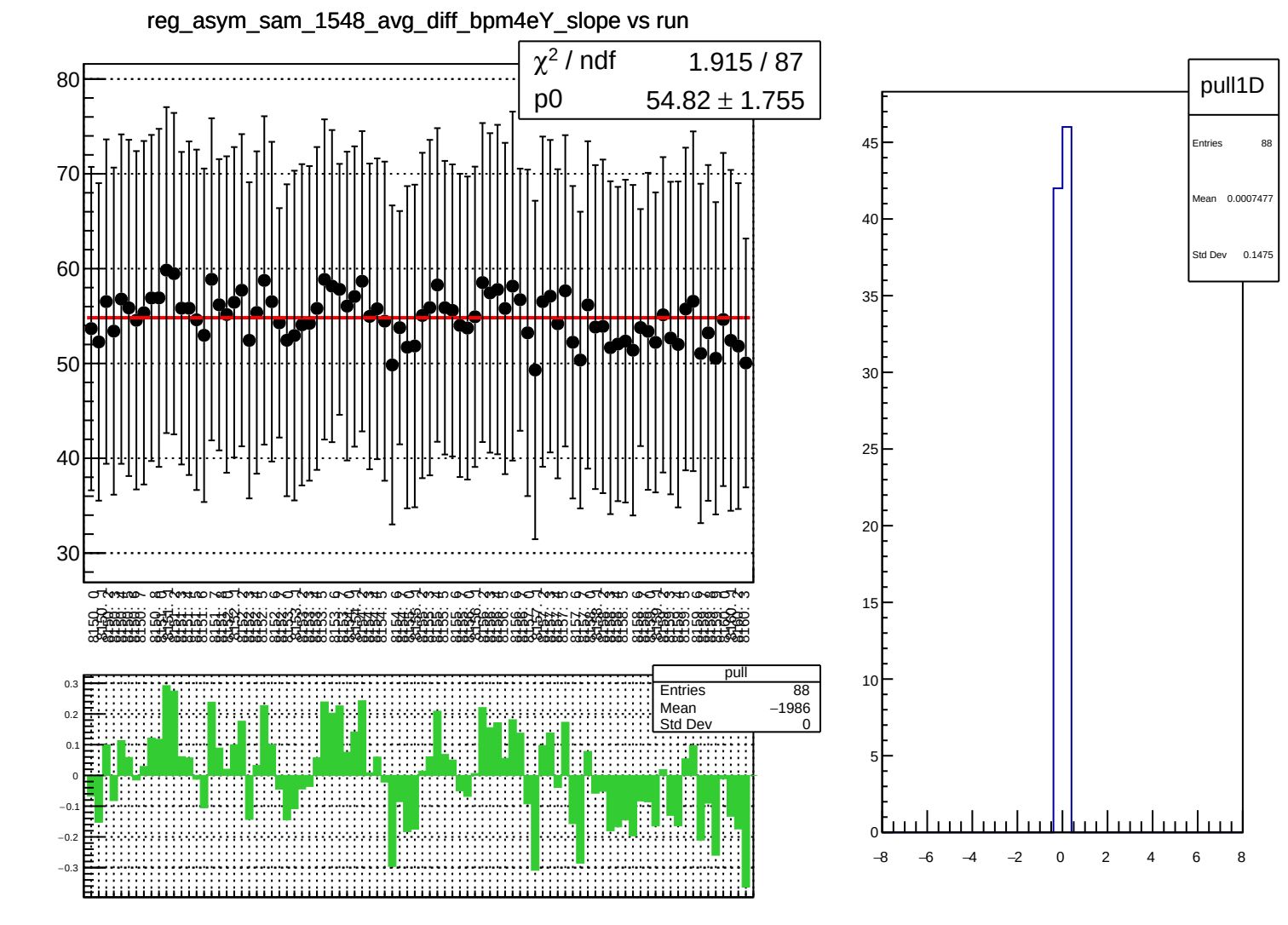

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.084 / 87
p0 0.4477 ± 0.04254
pull
Entries 88
Mean −376.4
Std Dev 0
pull1D
Entries 88
Mean −0.002327
Std Dev 0.1872

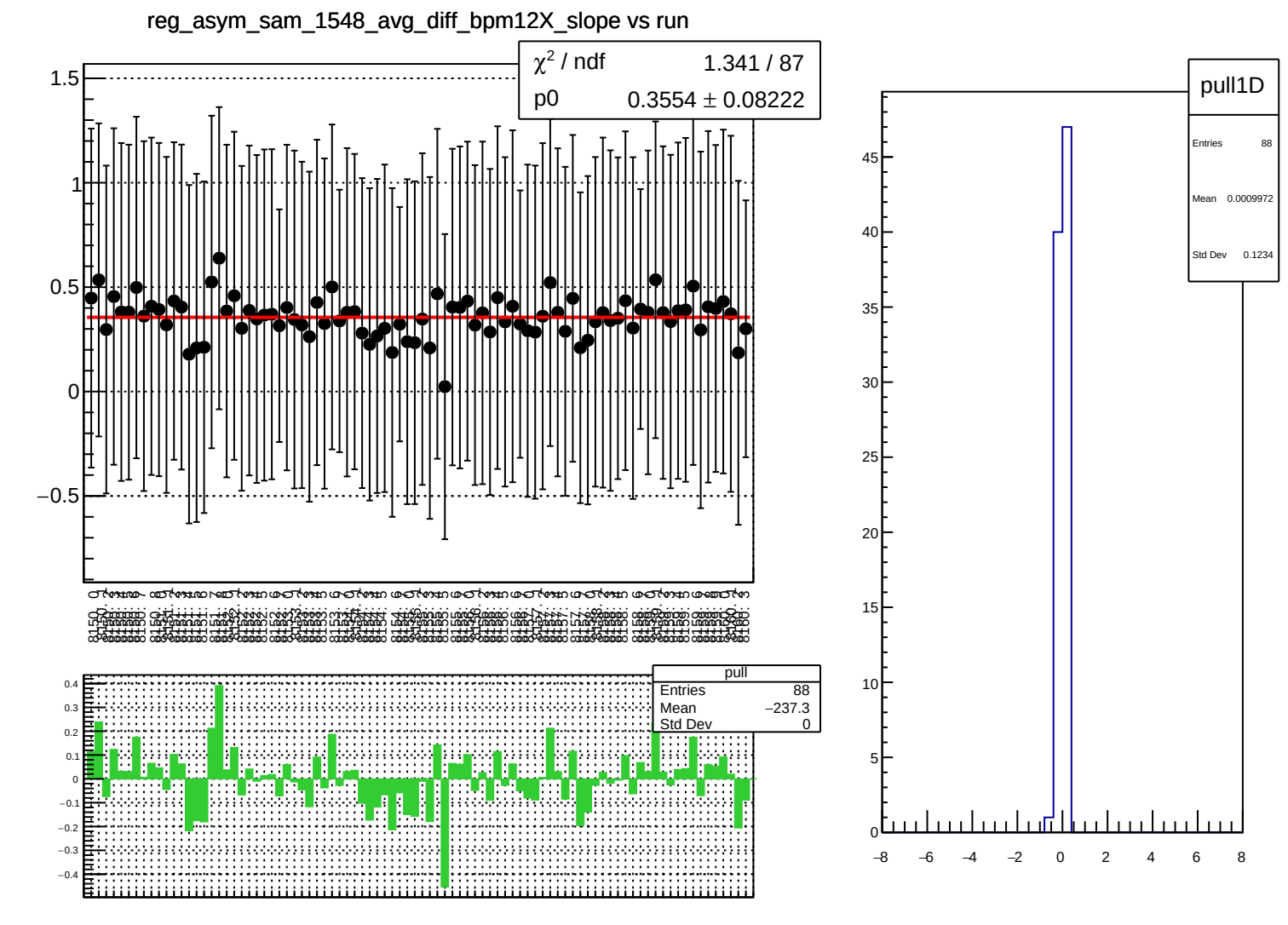

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 1.211 / 87
p0 −0.04472 ± 0.8747
pull
Entries 88
Mean −766.1
Std Dev 0
pull1D
Entries 88
Mean −0.001488
Std Dev 0.1173

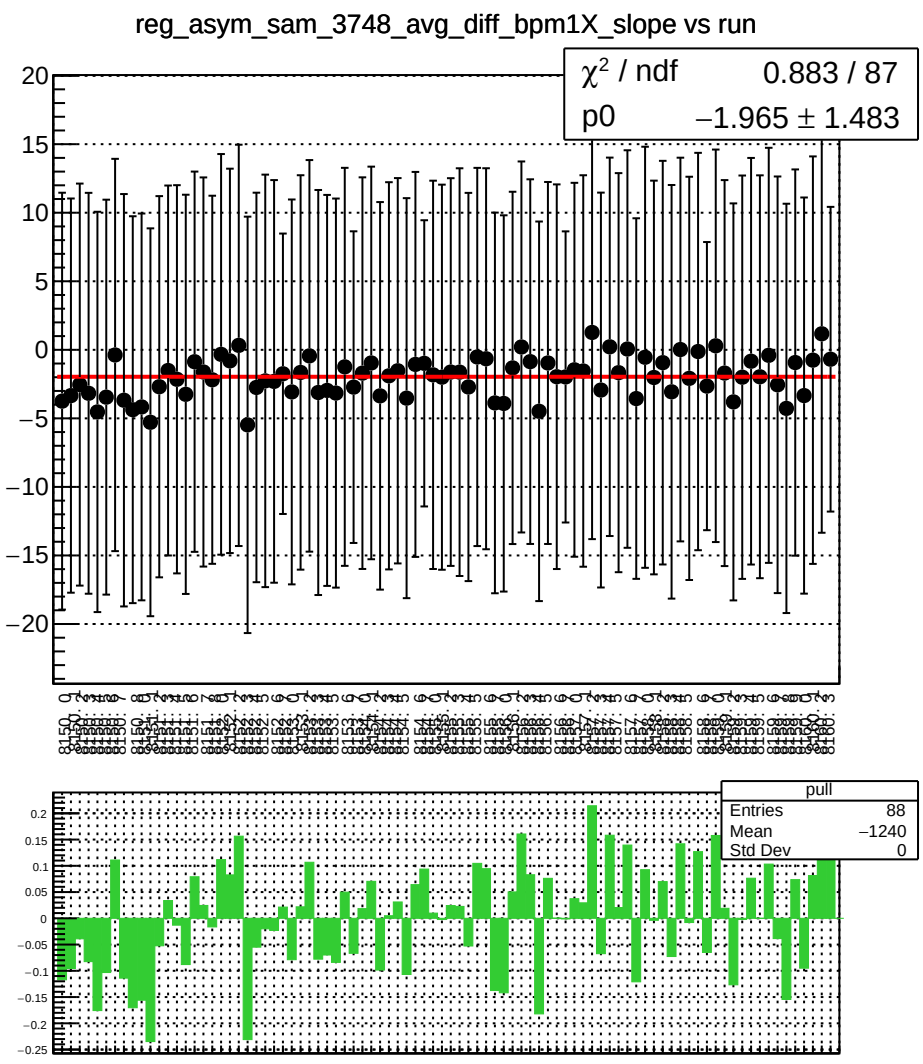

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.862 / 87
p0 32.35 ± 1.638
pull
Entries 88
Mean −1591
Std Dev 0
pull1D
Entries 88
Mean −0.0008931
Std Dev 0.1455

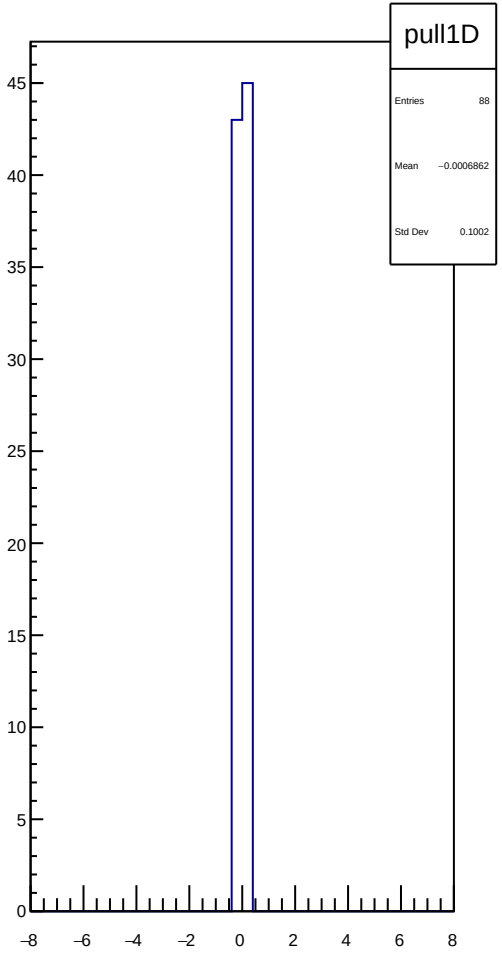

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.287 / 87
p0 −55.66 ± 0.8865
pull
Entries 88
Mean −822.4
Std Dev 0

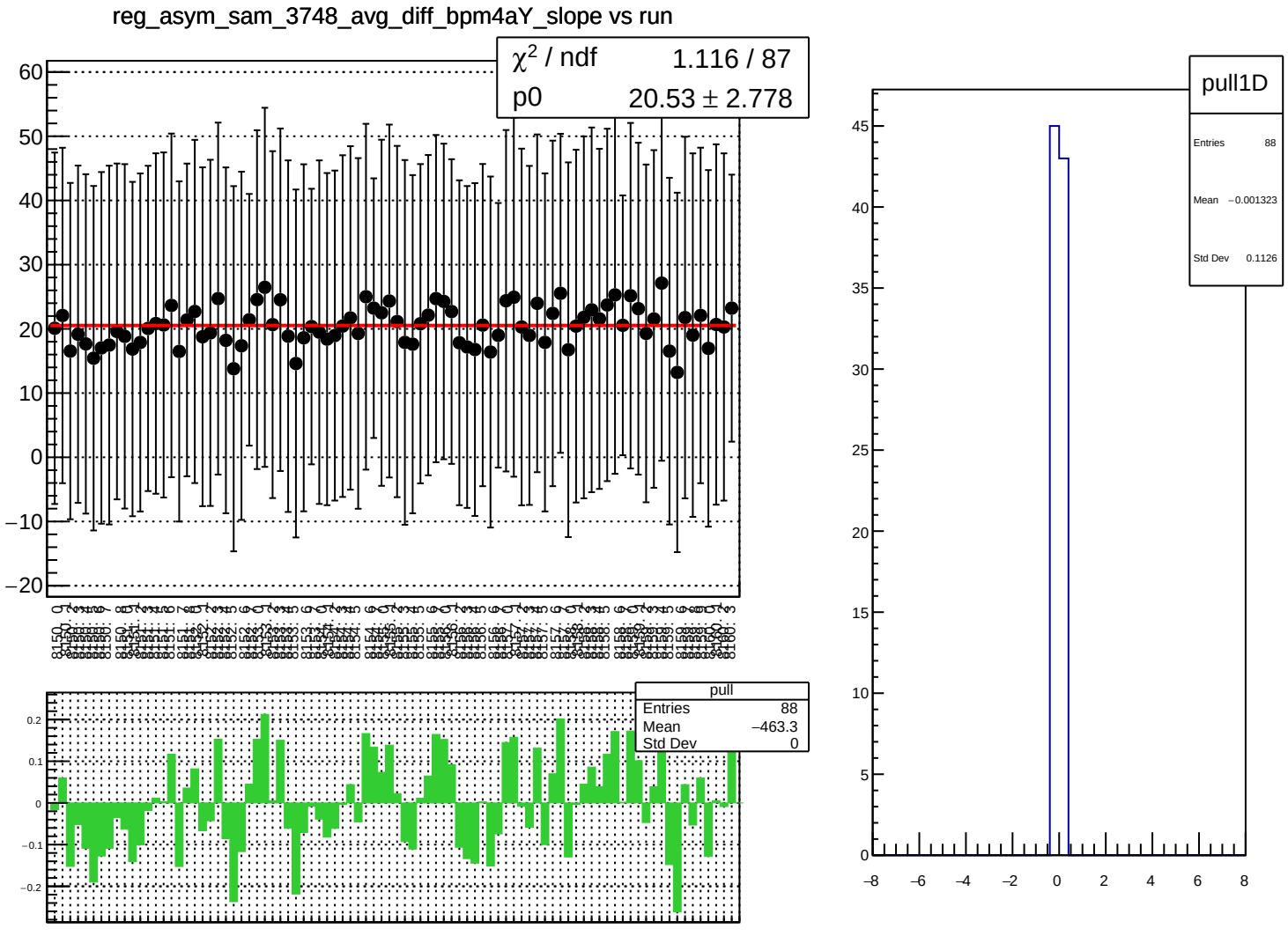

pull1D
Entries 88
Mean 0.001379
Std Dev 0.1209

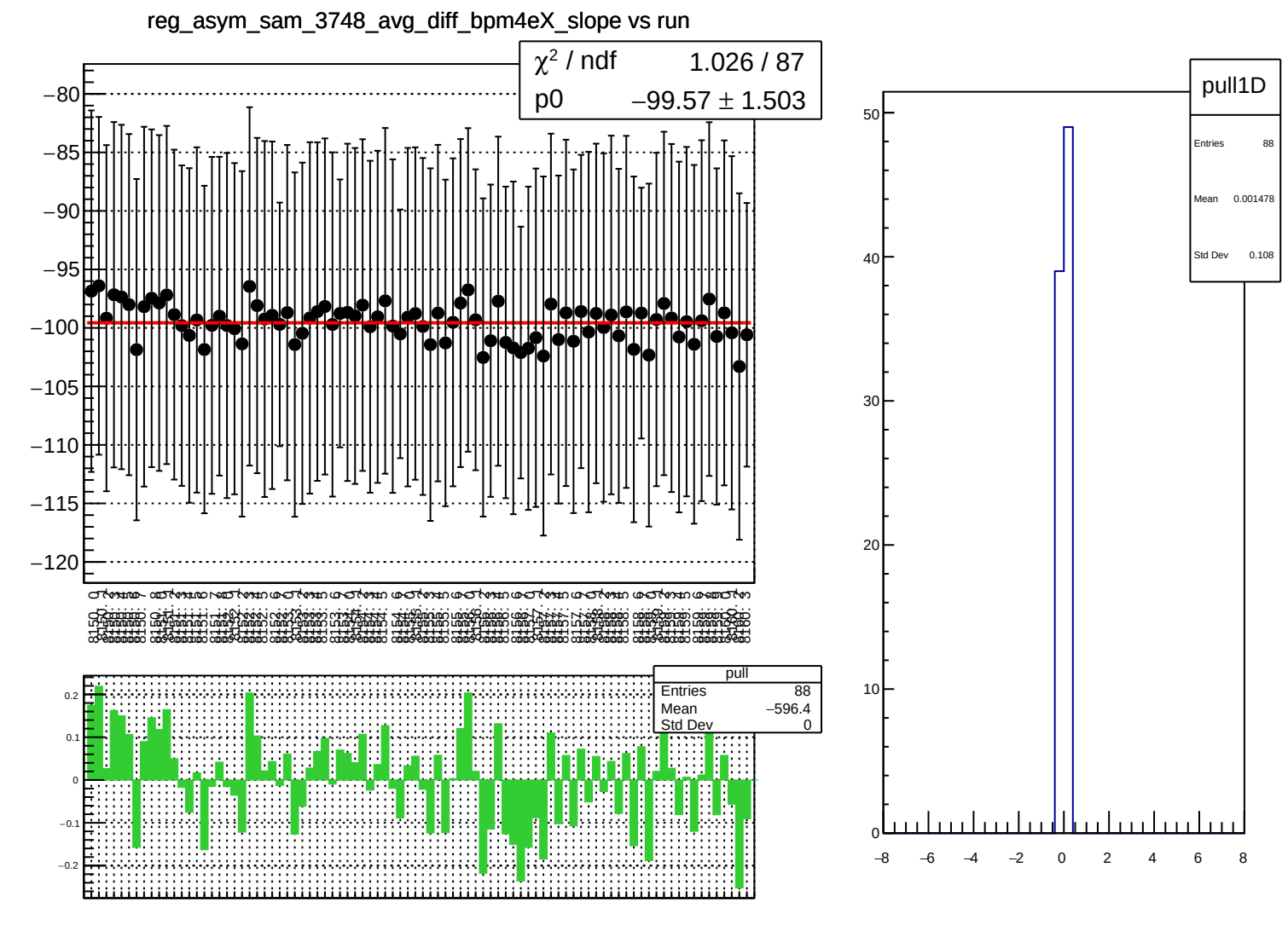

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.915 / 87
p0 54.82 ± 1.755
pull
Entries 88
Mean −1986
Std Dev 0
pull1D
Entries 88
Mean 0.0007477
Std Dev 0.1475

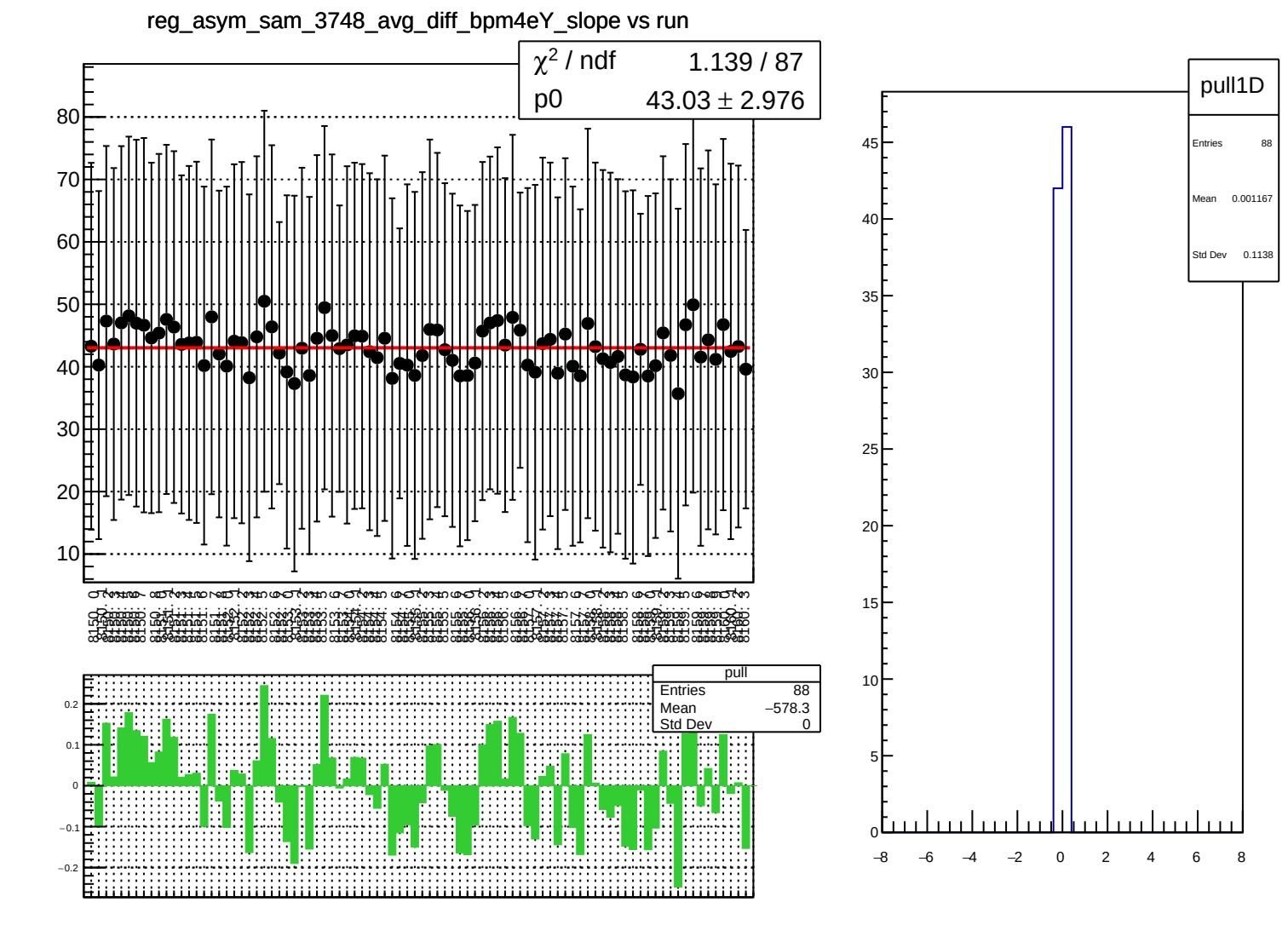

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 1.341 / 87
p0 0.3554 ± 0.08222
pull
Entries 88
Mean −237.3
Std Dev 0
pull1D
Entries 88
Mean 0.0009972
Std Dev 0.1234

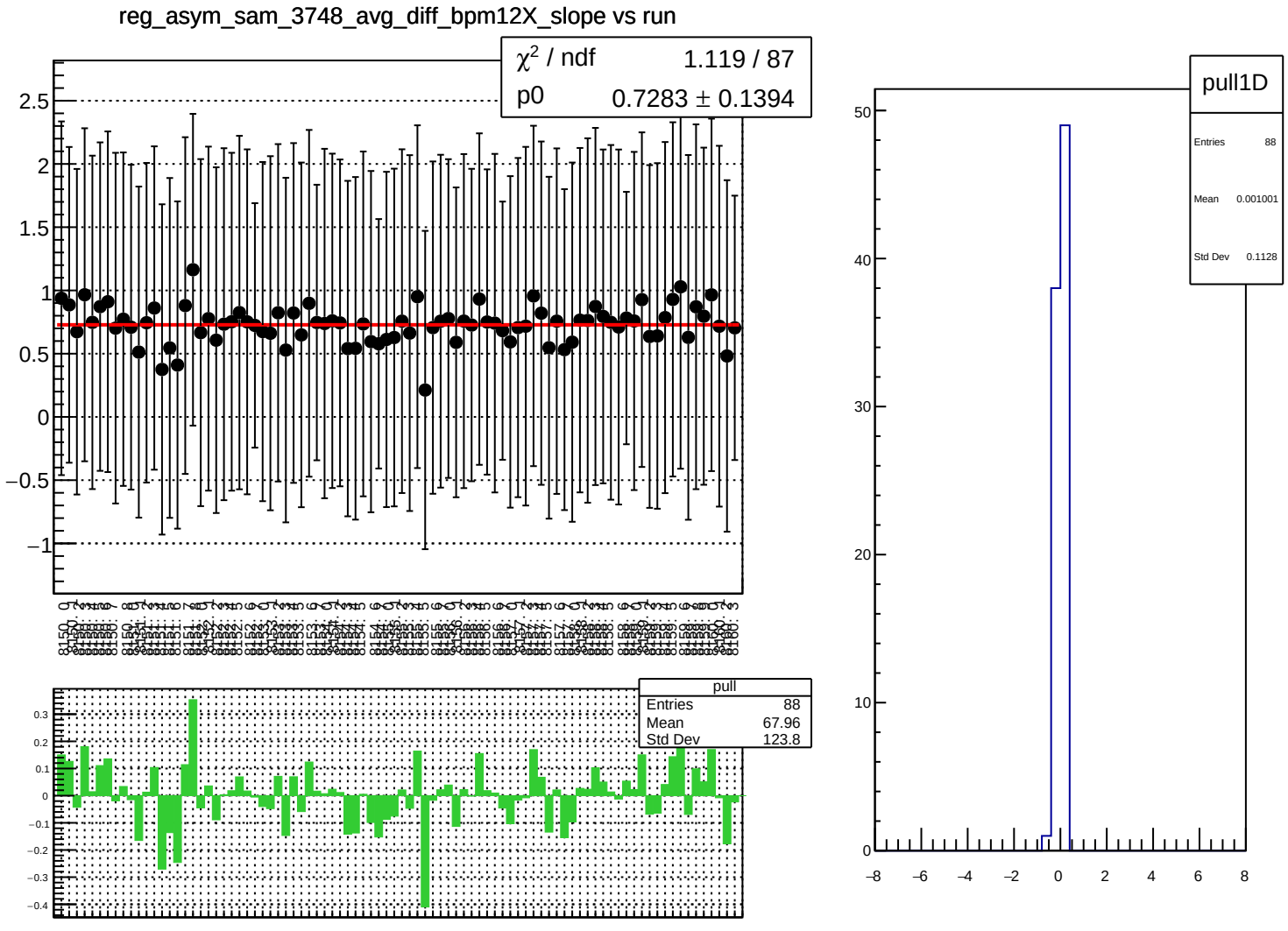

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 0.883 / 87
p0 −1.965 ± 1.483
pull
Entries 88
Mean −1240
Std Dev 0

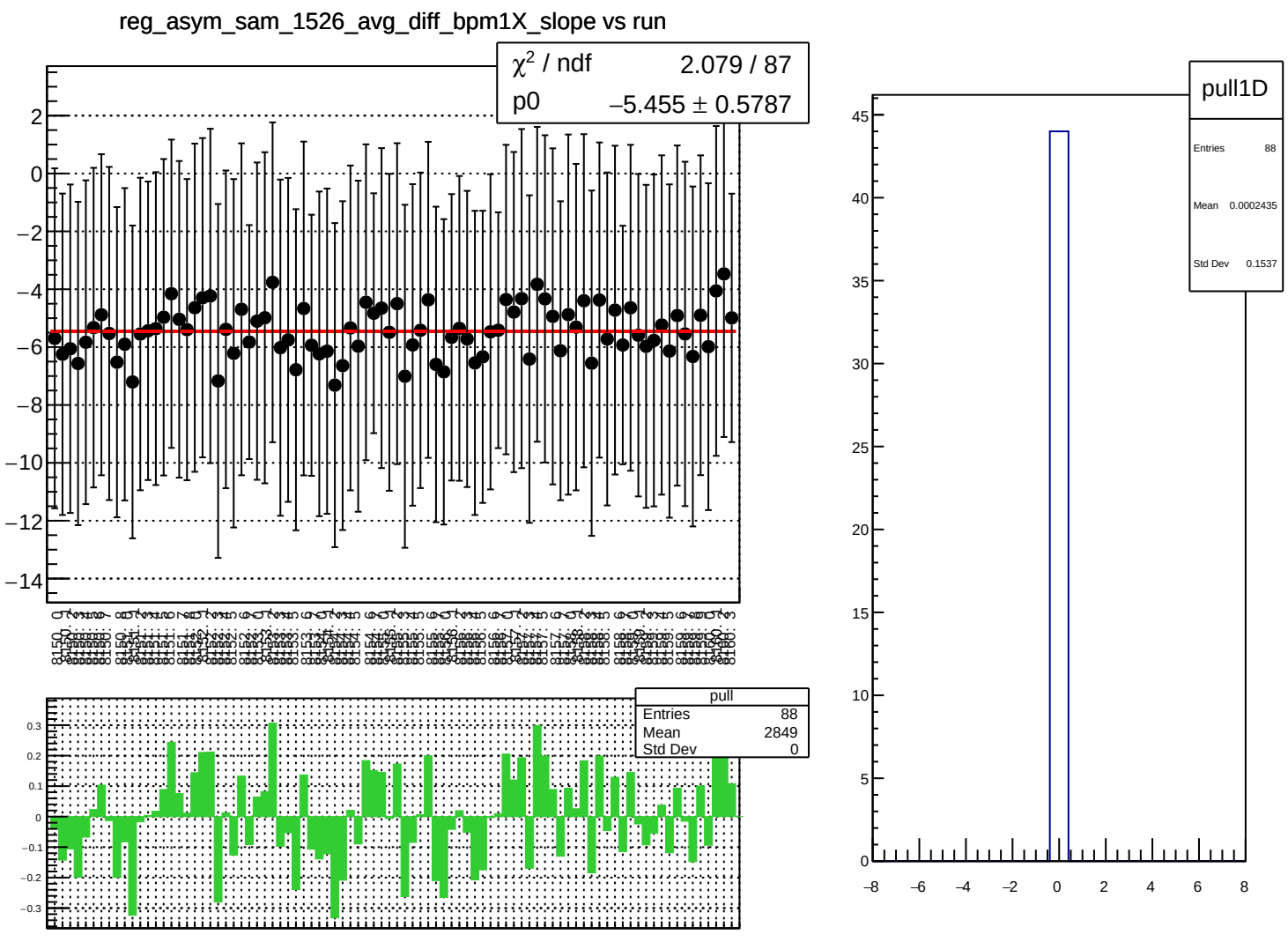

pull1D
Entries 88
Mean −0.0006862
Std Dev 0.1002

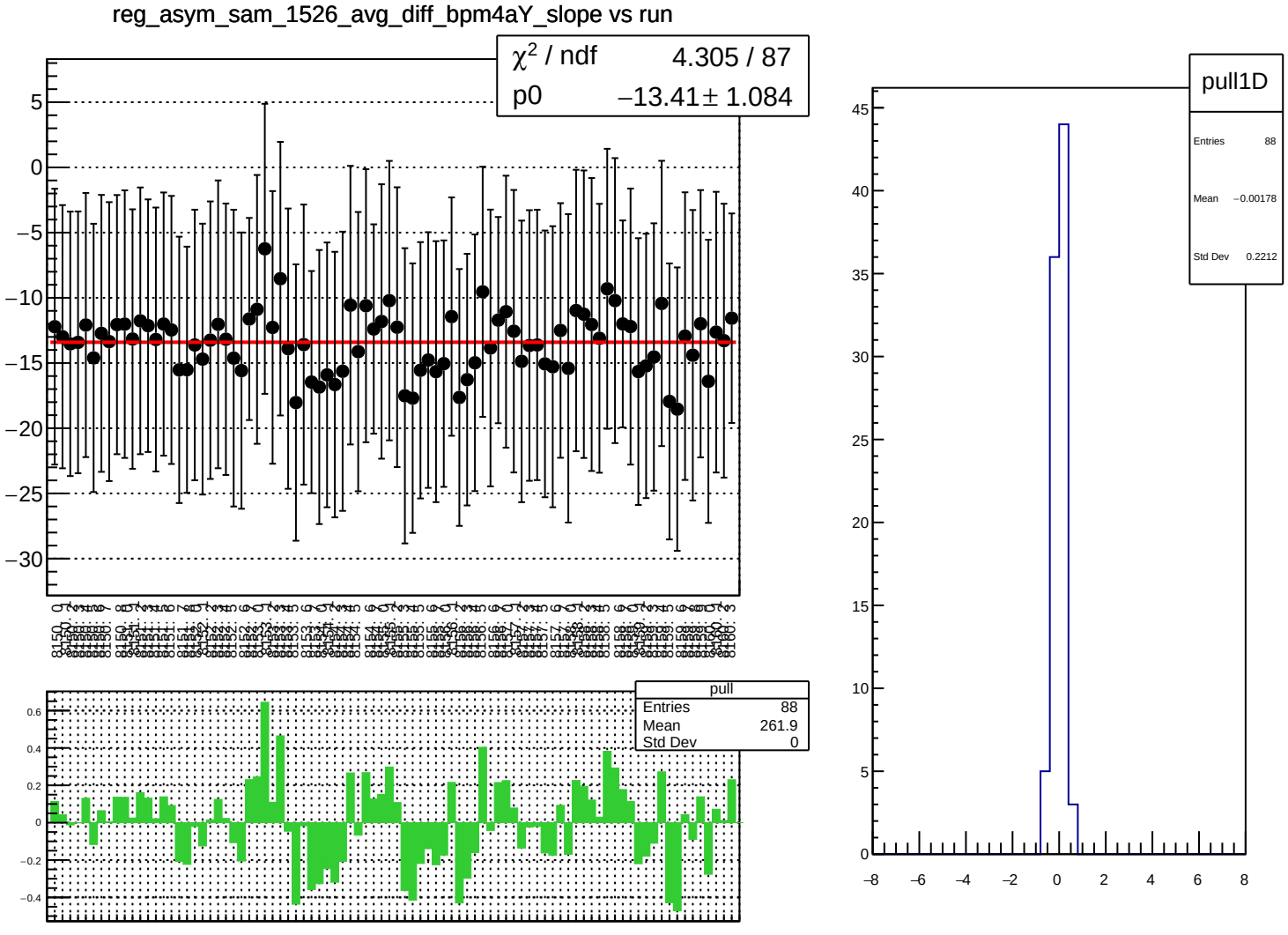

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.116 / 87
p0 20.53 ± 2.778
pull
Entries 88
Mean −463.3
Std Dev 0
pull1D
Entries 88
Mean −0.001323
Std Dev 0.1126

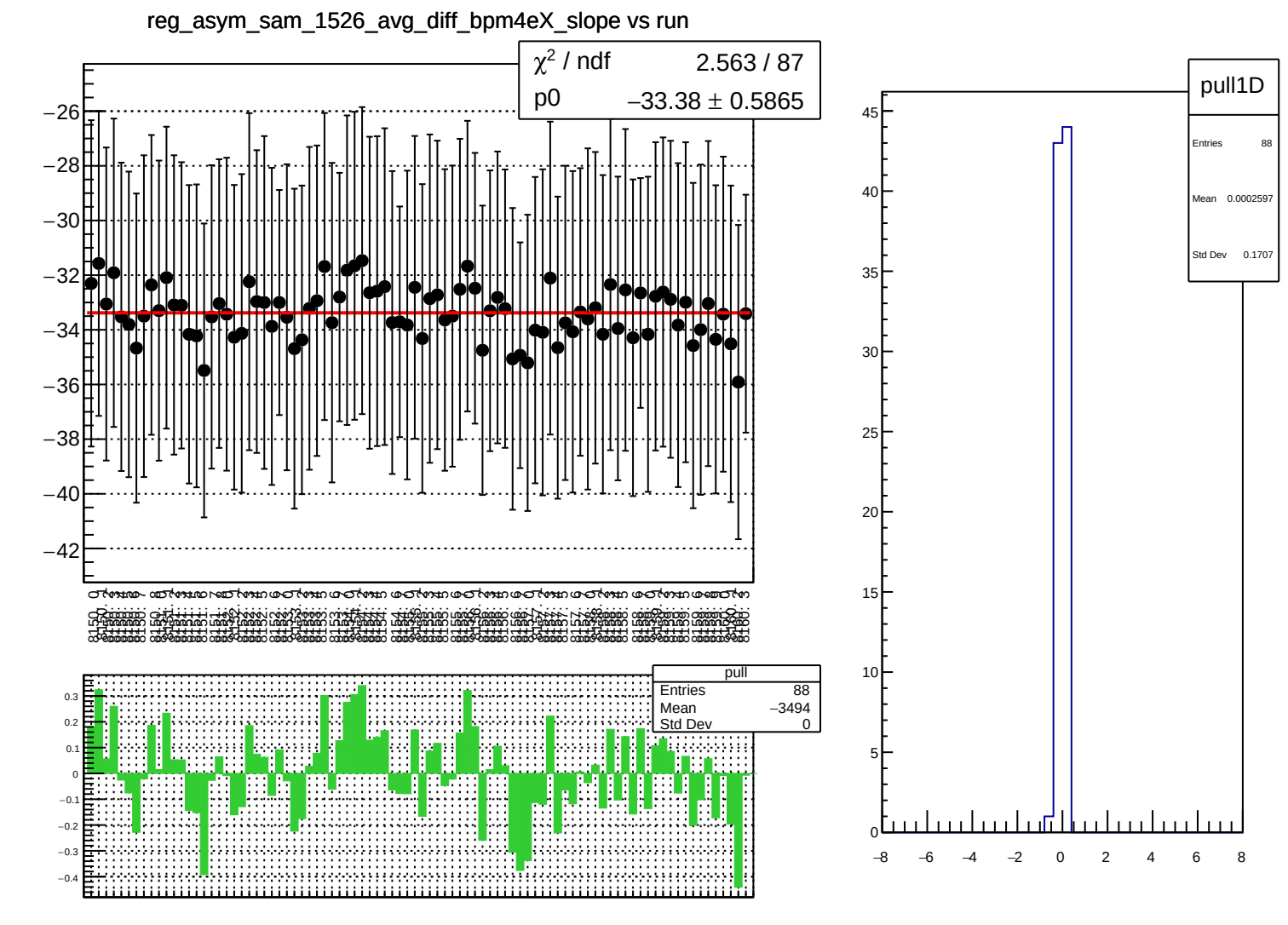

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.026 / 87
p0 −99.57 ± 1.503
pull
Entries 88
Mean −596.4
Std Dev 0
pull1D
Entries 88
Mean 0.001478
Std Dev 0.108

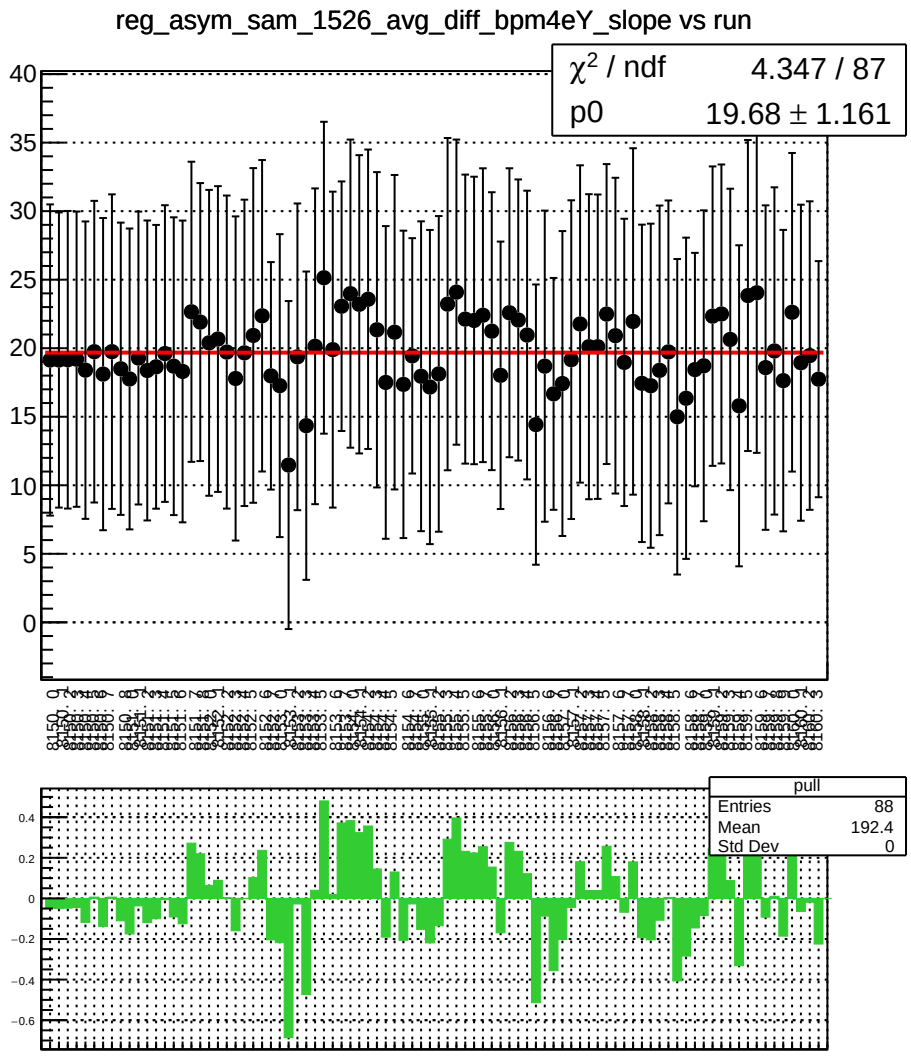

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.139 / 87
p0 43.03 ± 2.976
pull
Entries 88
Mean −578.3
Std Dev 0
pull1D
Entries 88
Mean 0.001167
Std Dev 0.1138

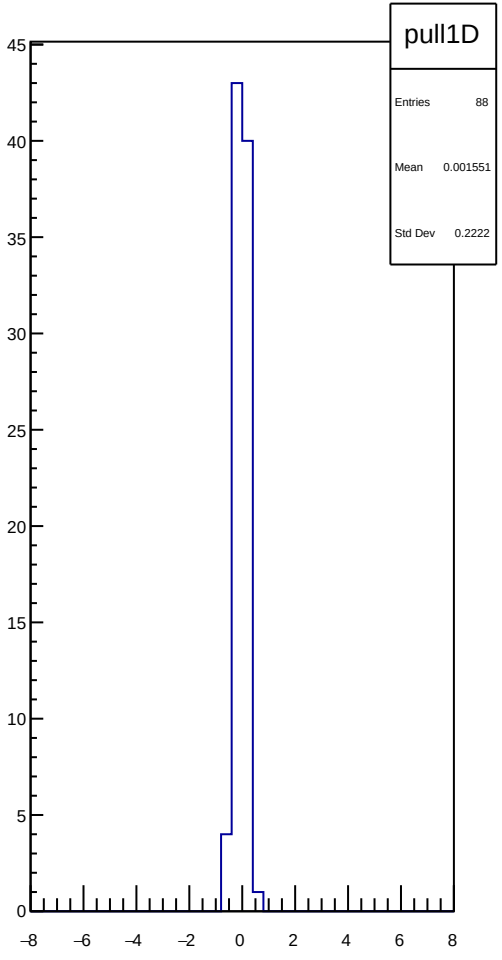

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 1.119 / 87
p0 0.7283 ± 0.1394
pull
Entries 88
Mean 67.96
Std Dev 123.8
pull1D
Entries 88
Mean 0.001001
Std Dev 0.1128

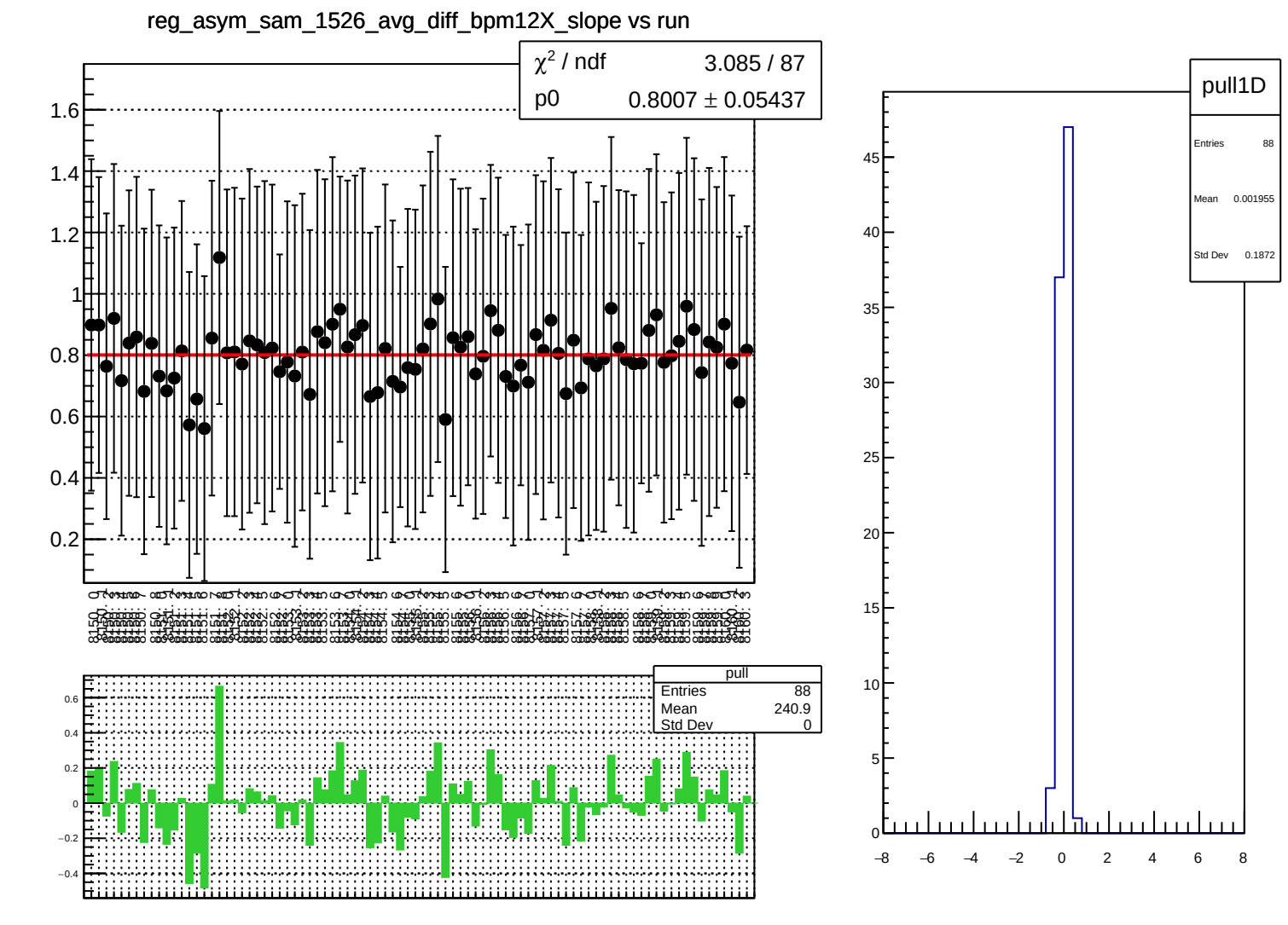

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 2.079 / 87
p0 −5.455 ± 0.5787
pull
Entries 88
Mean 2849
Std Dev 0
pull1D
Entries 88
Mean 0.0002435
Std Dev 0.1537

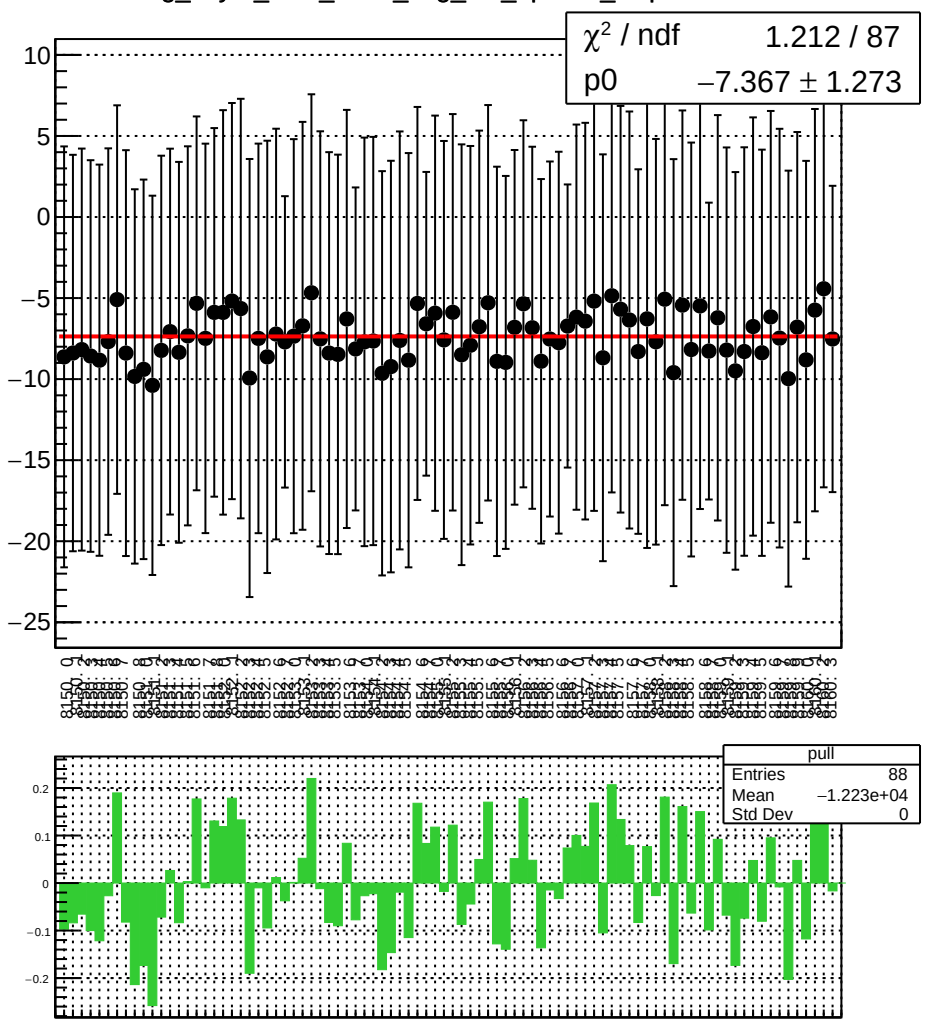

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.305 / 87
p0 −13.41 ± 1.084
pull
Entries 88
Mean 261.9
Std Dev 0
pull1D
Entries 88
Mean −0.00178
Std Dev 0.2212

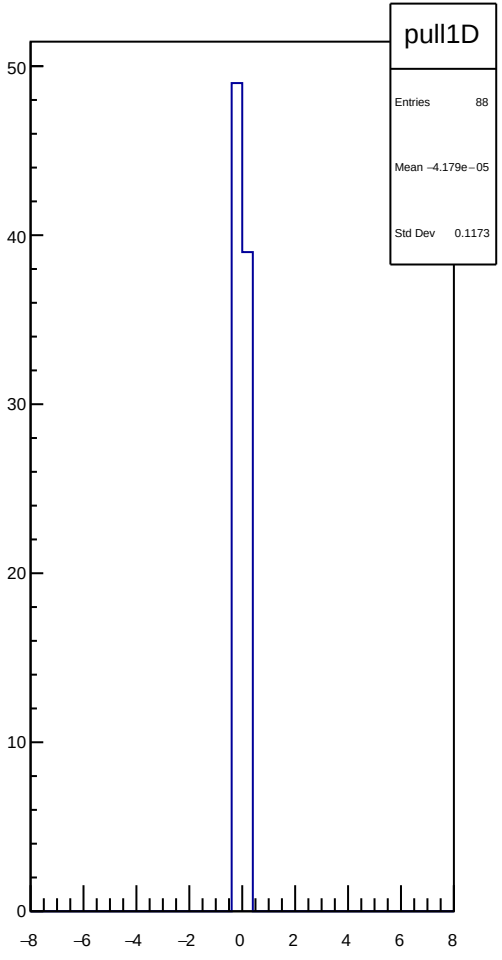

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.563 / 87
p0 −33.38 ± 0.5865
pull
Entries 88
Mean −3494
Std Dev 0
pull1D
Entries 88
Mean 0.0002597
Std Dev 0.1707

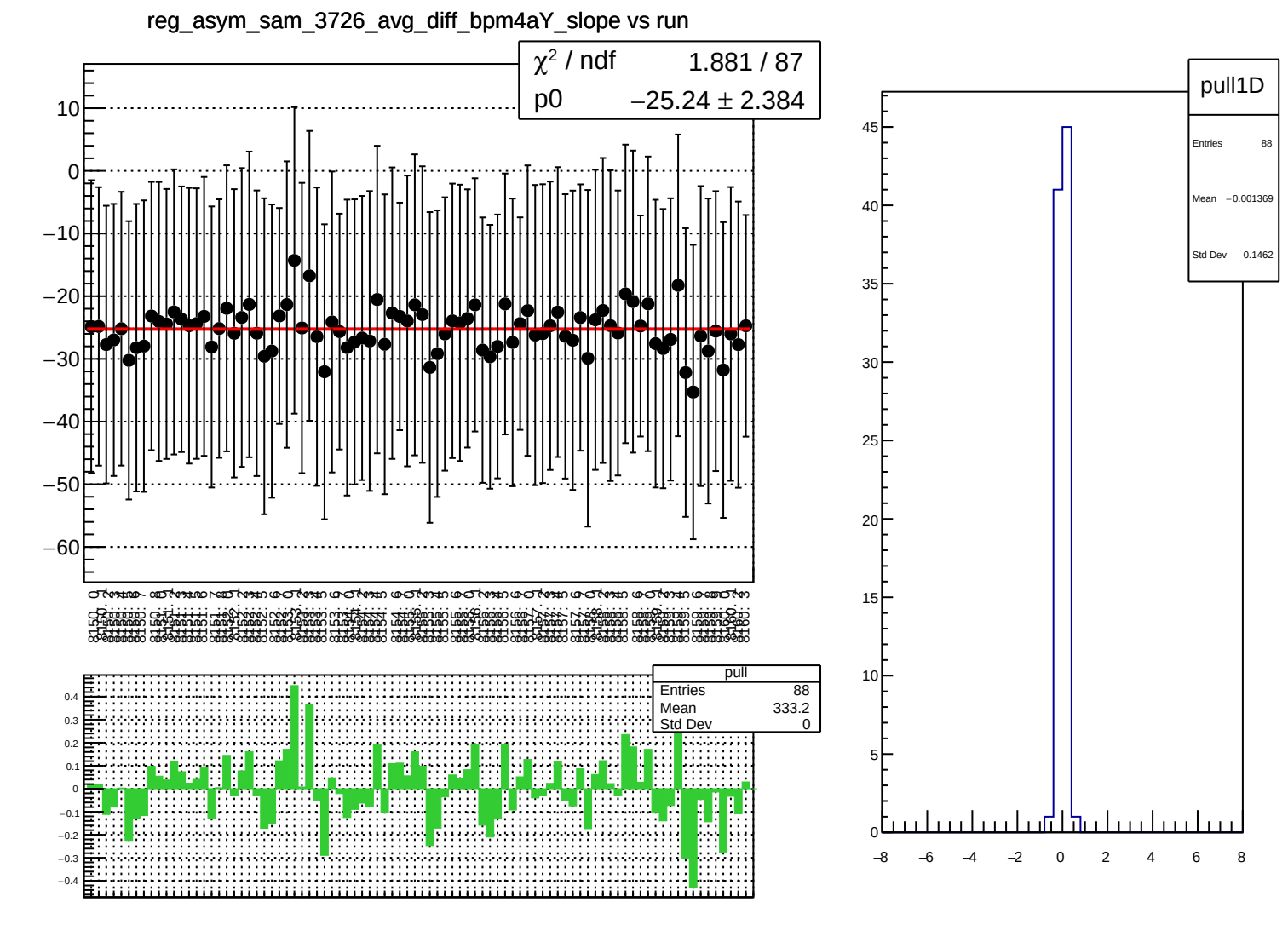

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.347 / 87
p0 19.68 ± 1.161
pull
Entries 88
Mean 192.4
Std Dev 0

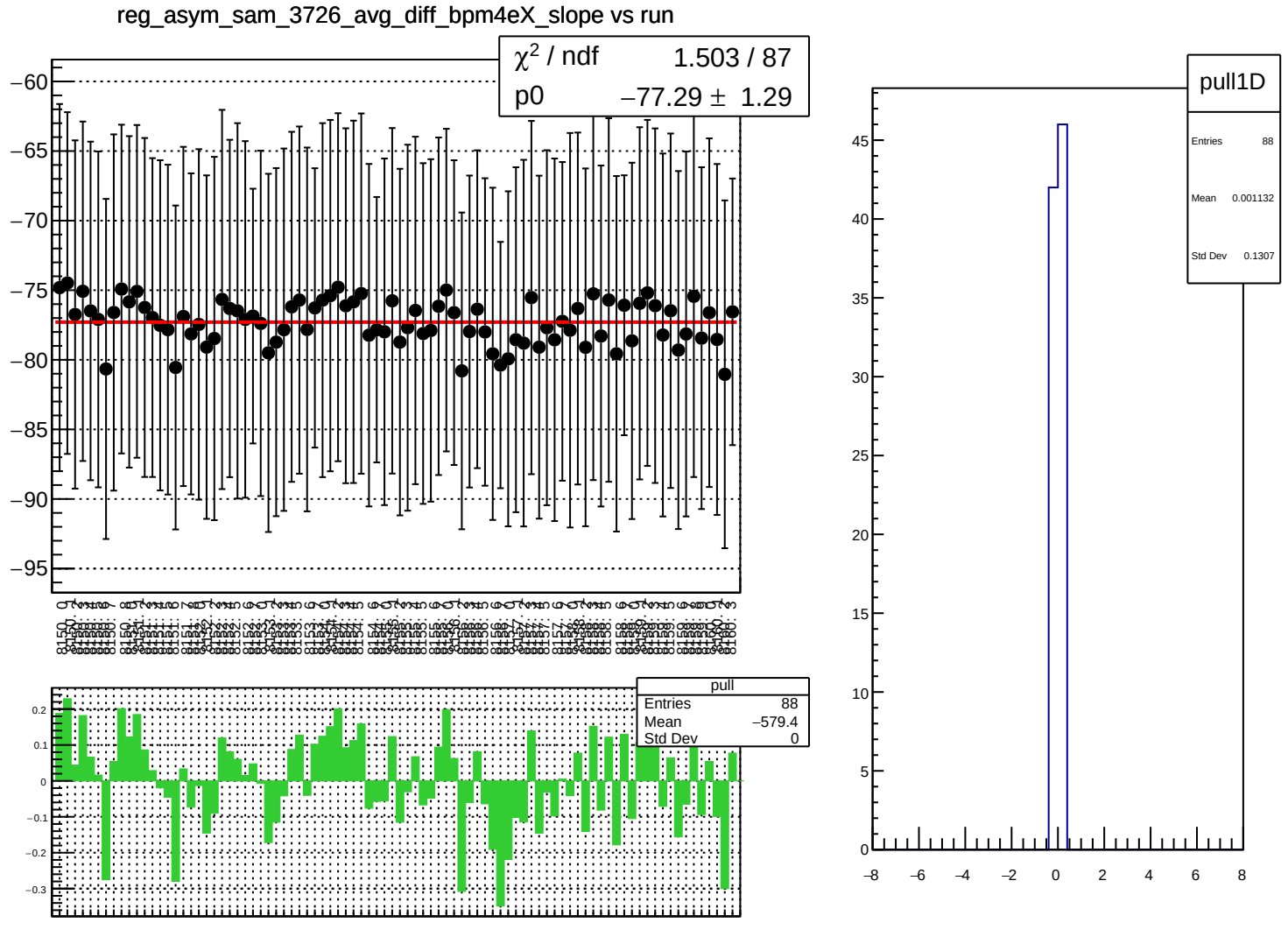

pull1D
Entries 88
Mean 0.001551
Std Dev 0.2222

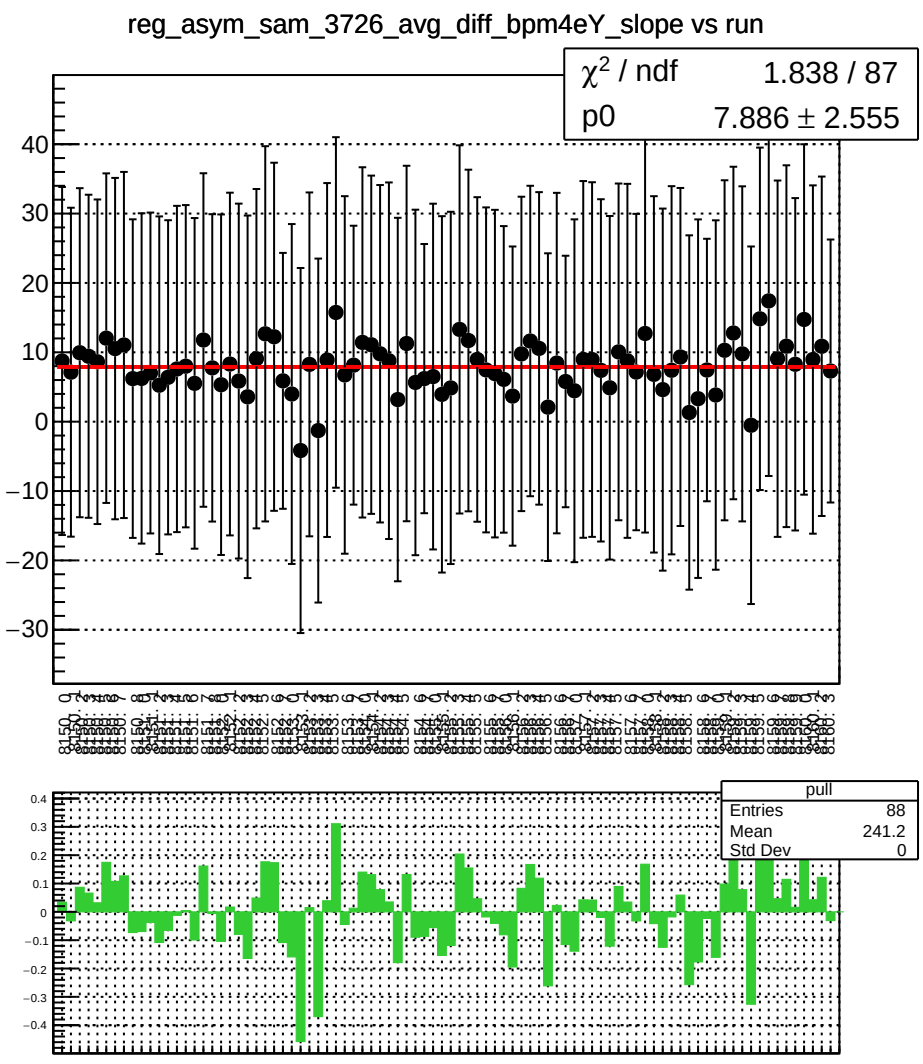

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 3.085 / 87
p0 0.8007 ± 0.05437
pull
Entries 88
Mean 240.9
Std Dev 0
pull1D
Entries 88
Mean 0.001955
Std Dev 0.1872

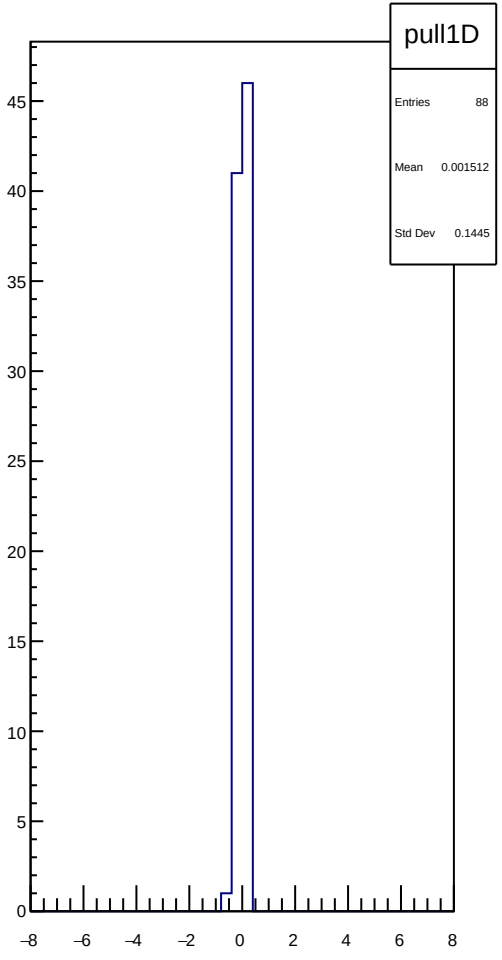

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 1.212 / 87
p0 −7.367 ± 1.273
pull
Entries 88
Mean −1.223e+04
Std Dev 0

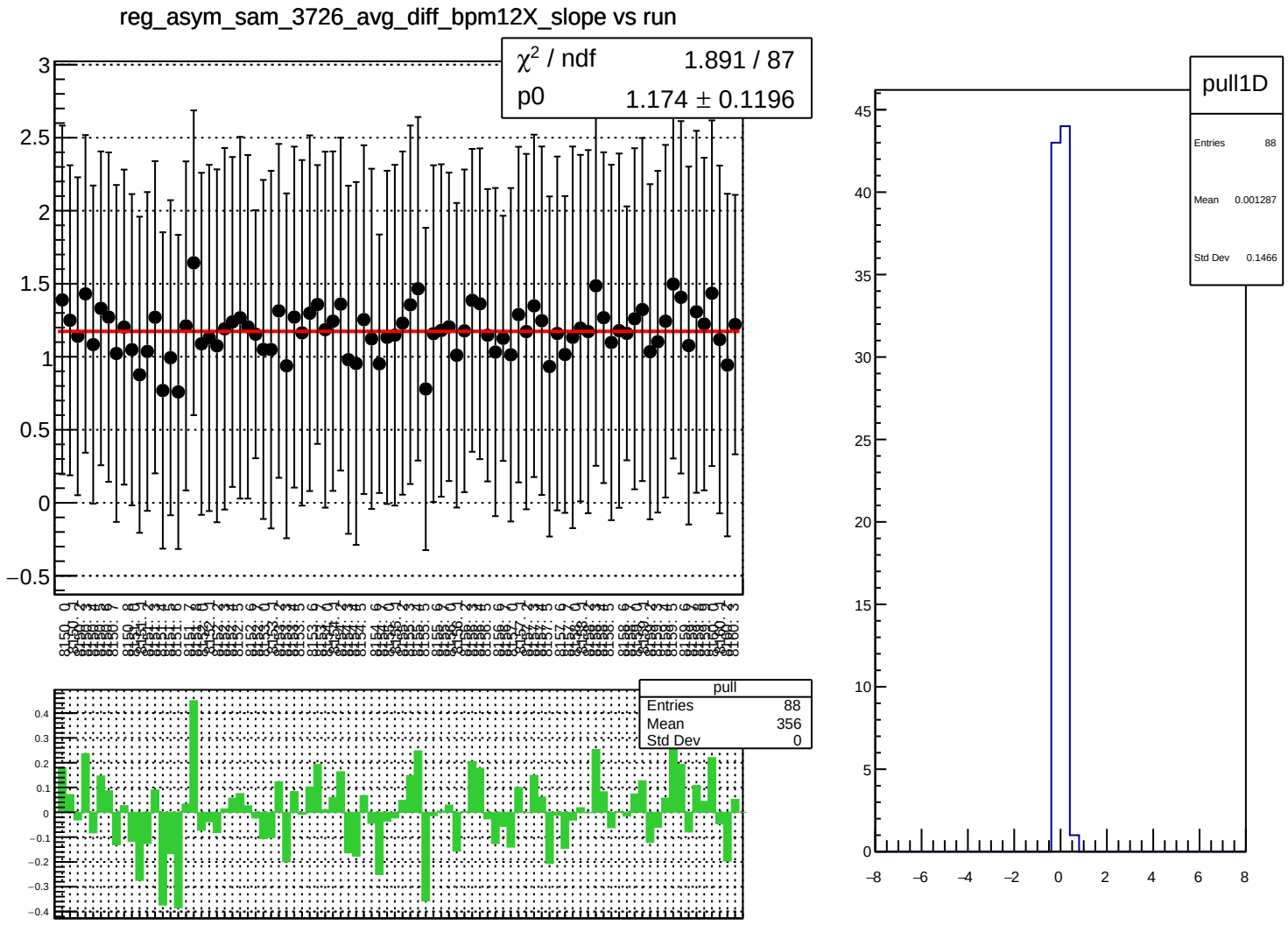

pull1D
Entries 88
Mean −4.179e−05
Std Dev 0.1173

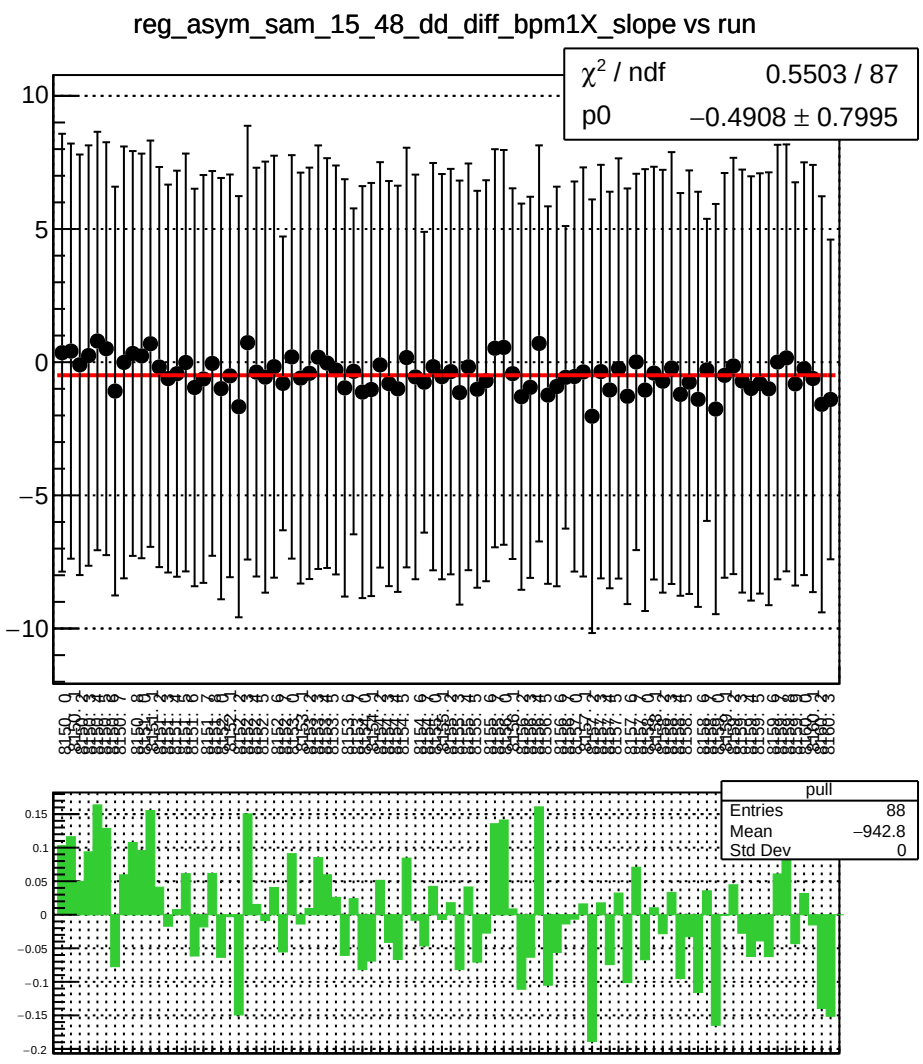

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.881 / 87
p0 −25.24 ± 2.384
pull
Entries 88
Mean 333.2
Std Dev 0
pull1D
Entries 88
Mean −0.001369
Std Dev 0.1462

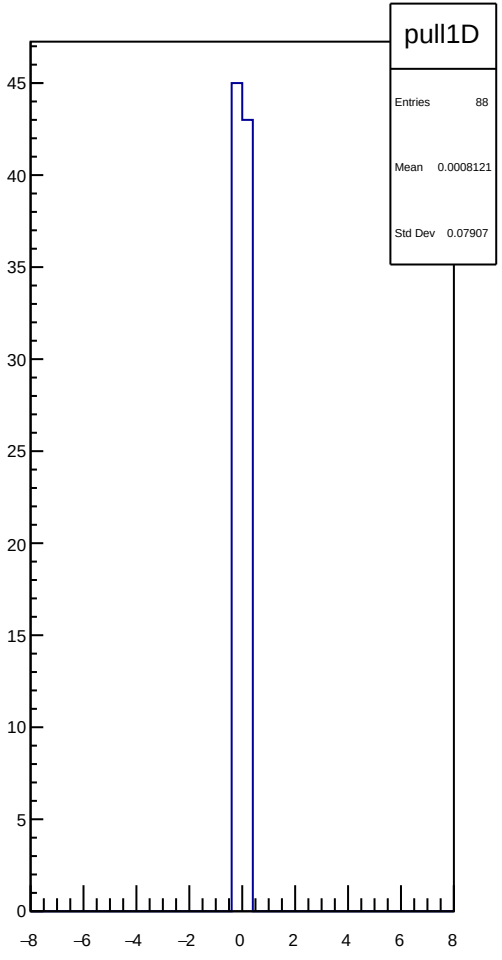

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.503 / 87
p0 −77.29 ± 1.29
pull
Entries 88
Mean −579.4
Std Dev 0
pull1D
Entries 88
Mean 0.001132
Std Dev 0.1307

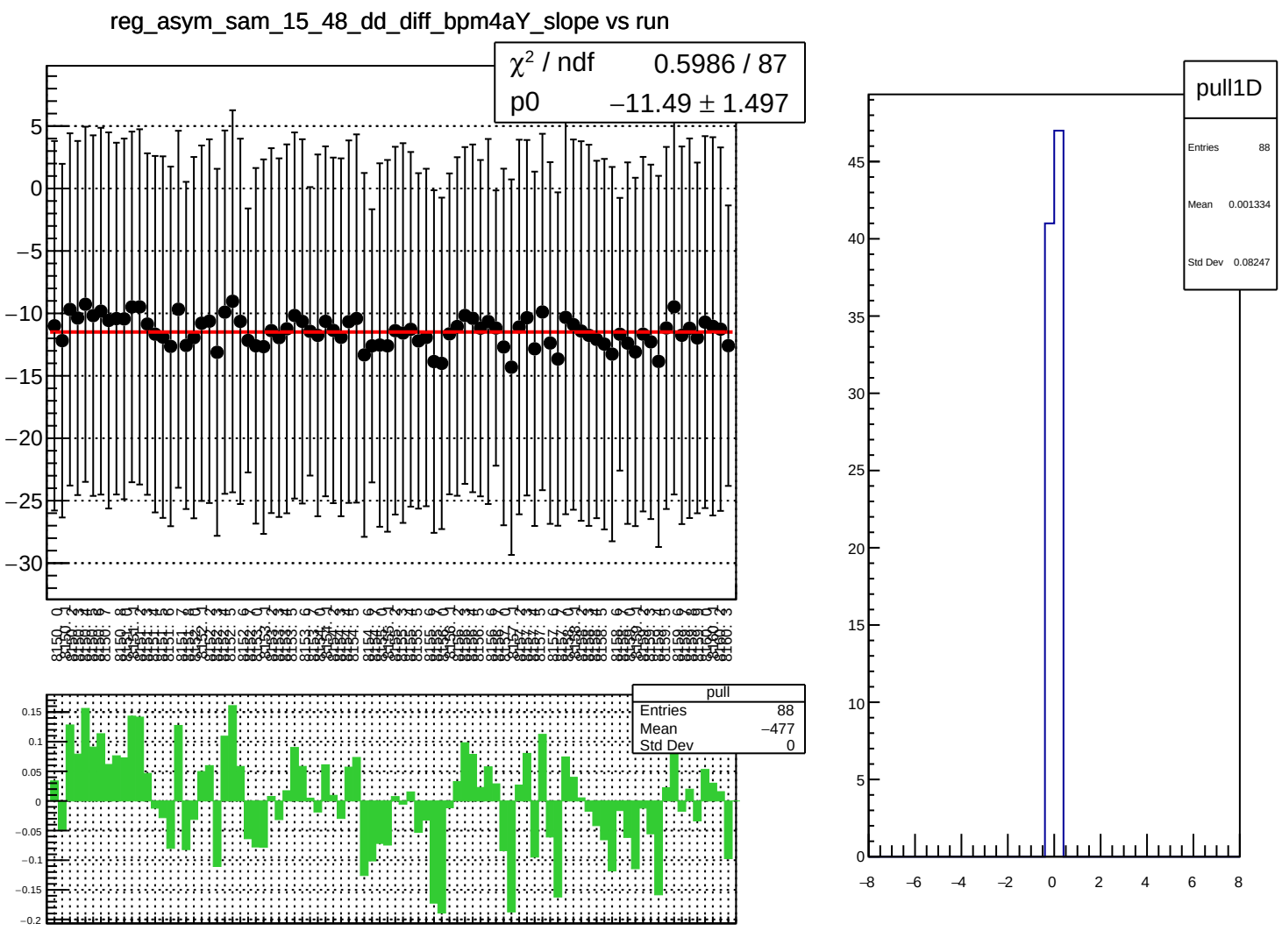

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.838 / 87
p0 7.886 ± 2.555
pull
Entries 88
Mean 241.2
Std Dev 0

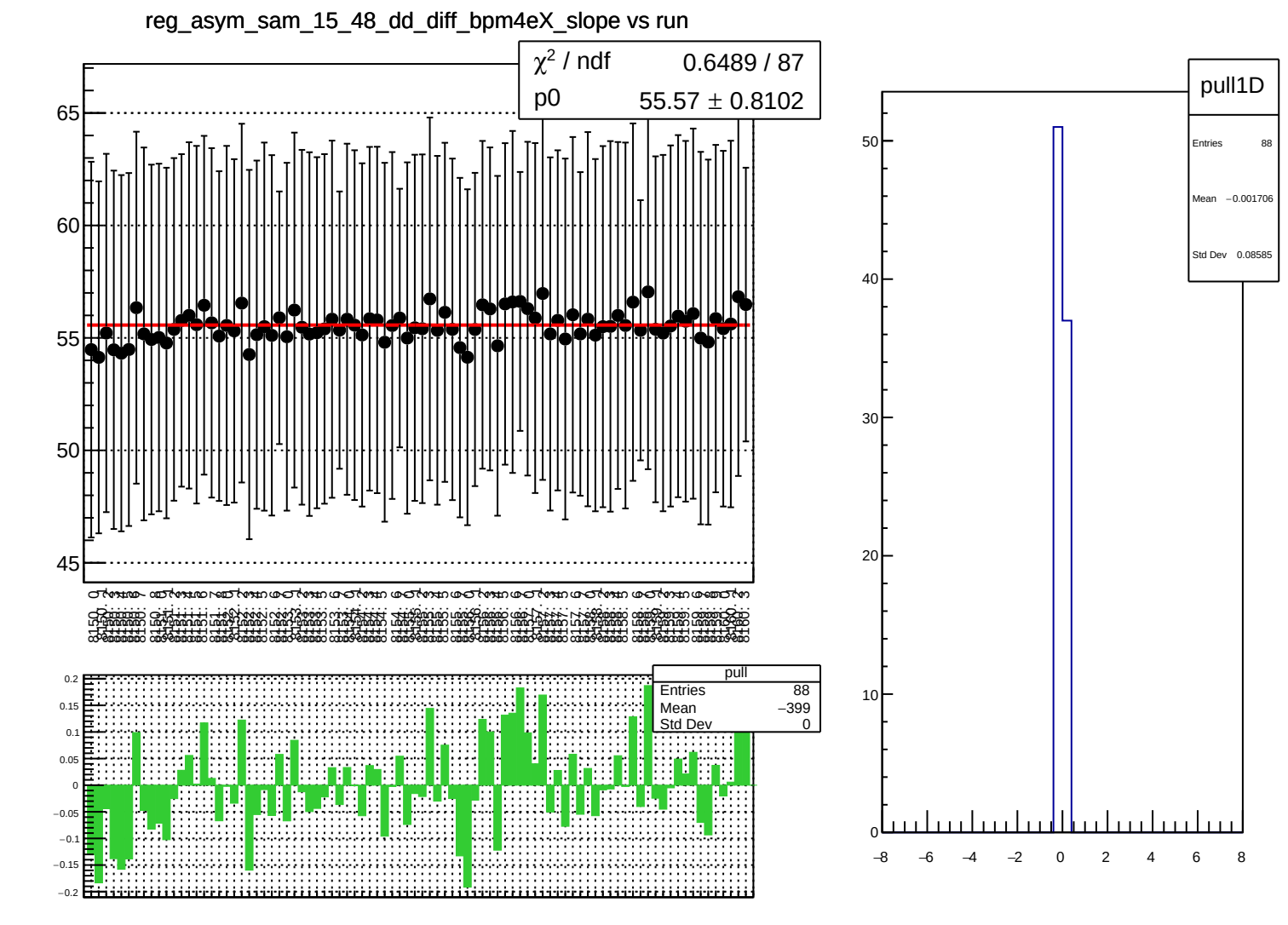

pull1D
Entries 88
Mean 0.001512
Std Dev 0.1445

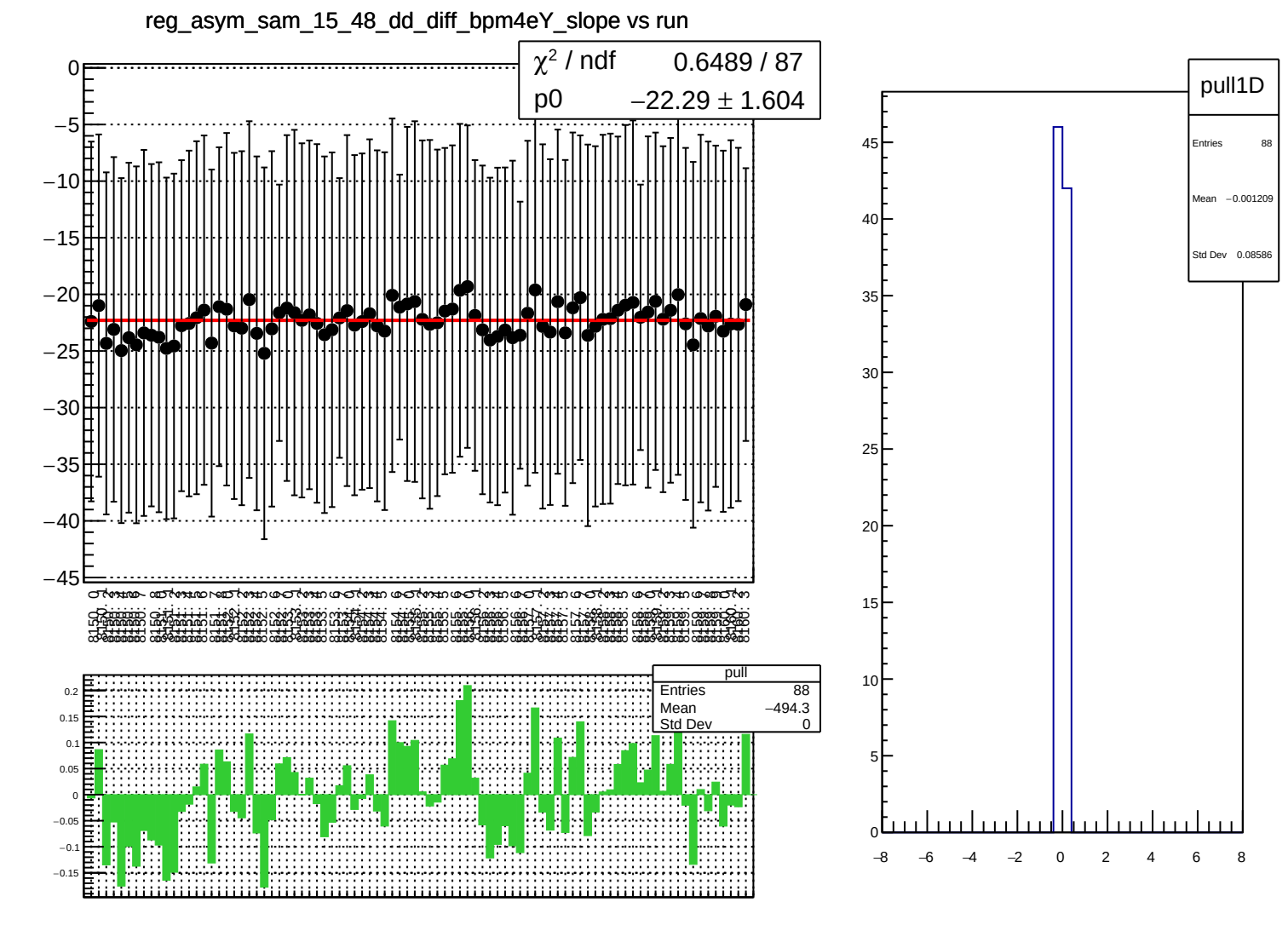

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 1.891 / 87
p0 1.174 ± 0.1196
pull
Entries 88
Mean 356
Std Dev 0
pull1D
Entries 88
Mean 0.001287
Std Dev 0.1466

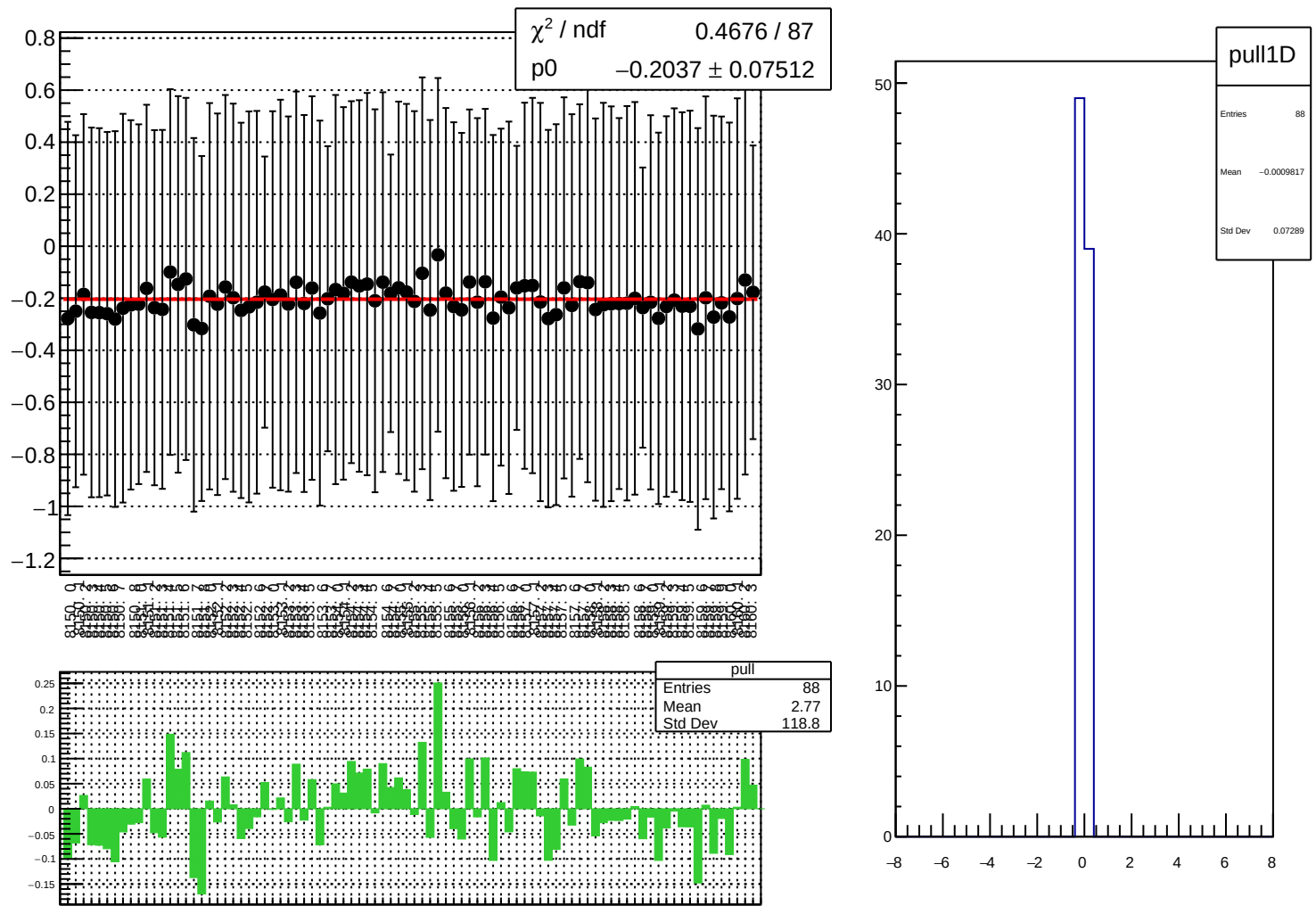

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 0.5503 / 87
p0 −0.4908 ± 0.7995
pull
Entries 88
Mean −942.8
Std Dev 0

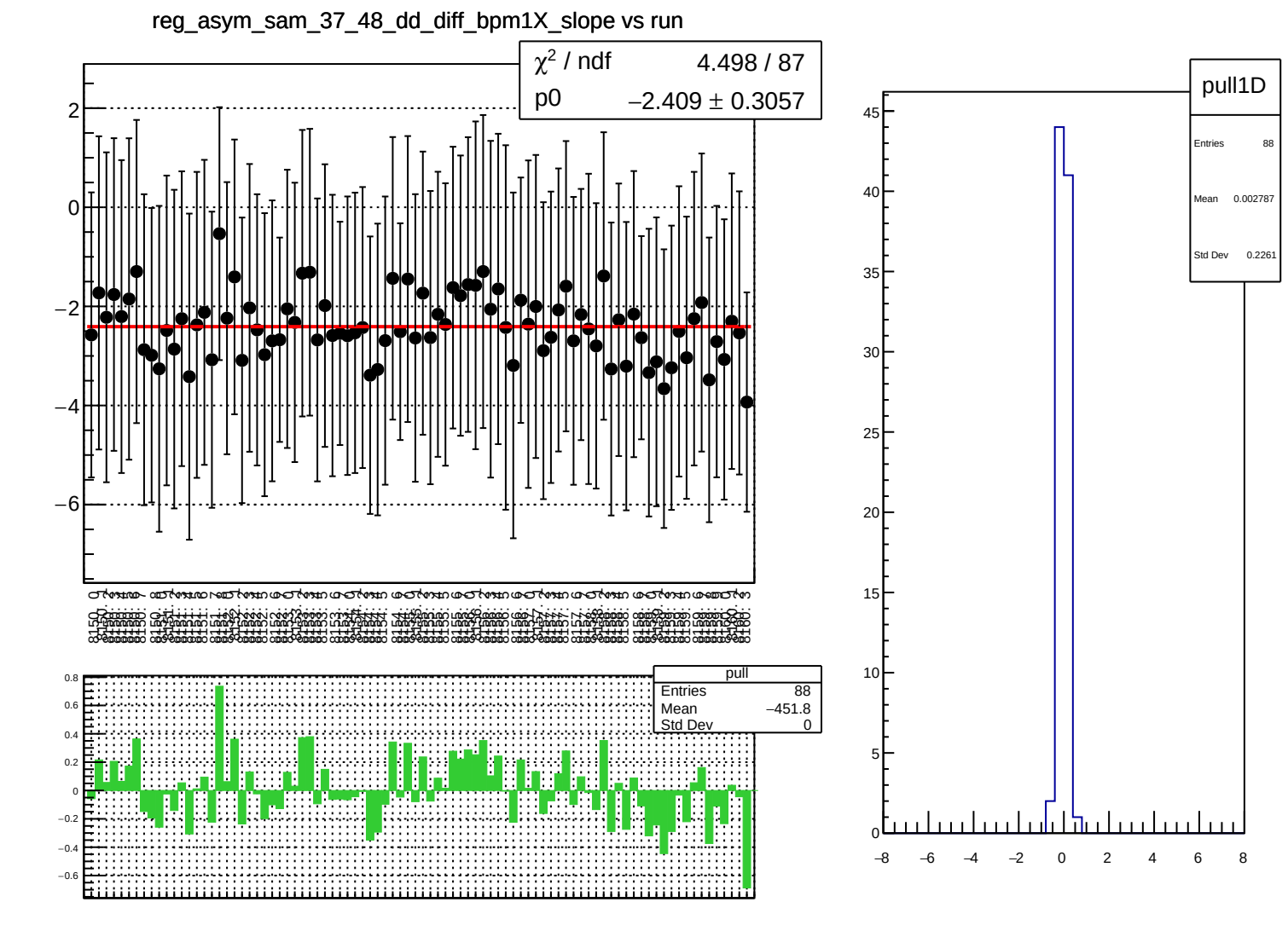

pull1D
Entries 88
Mean 0.0008121
Std Dev 0.07907

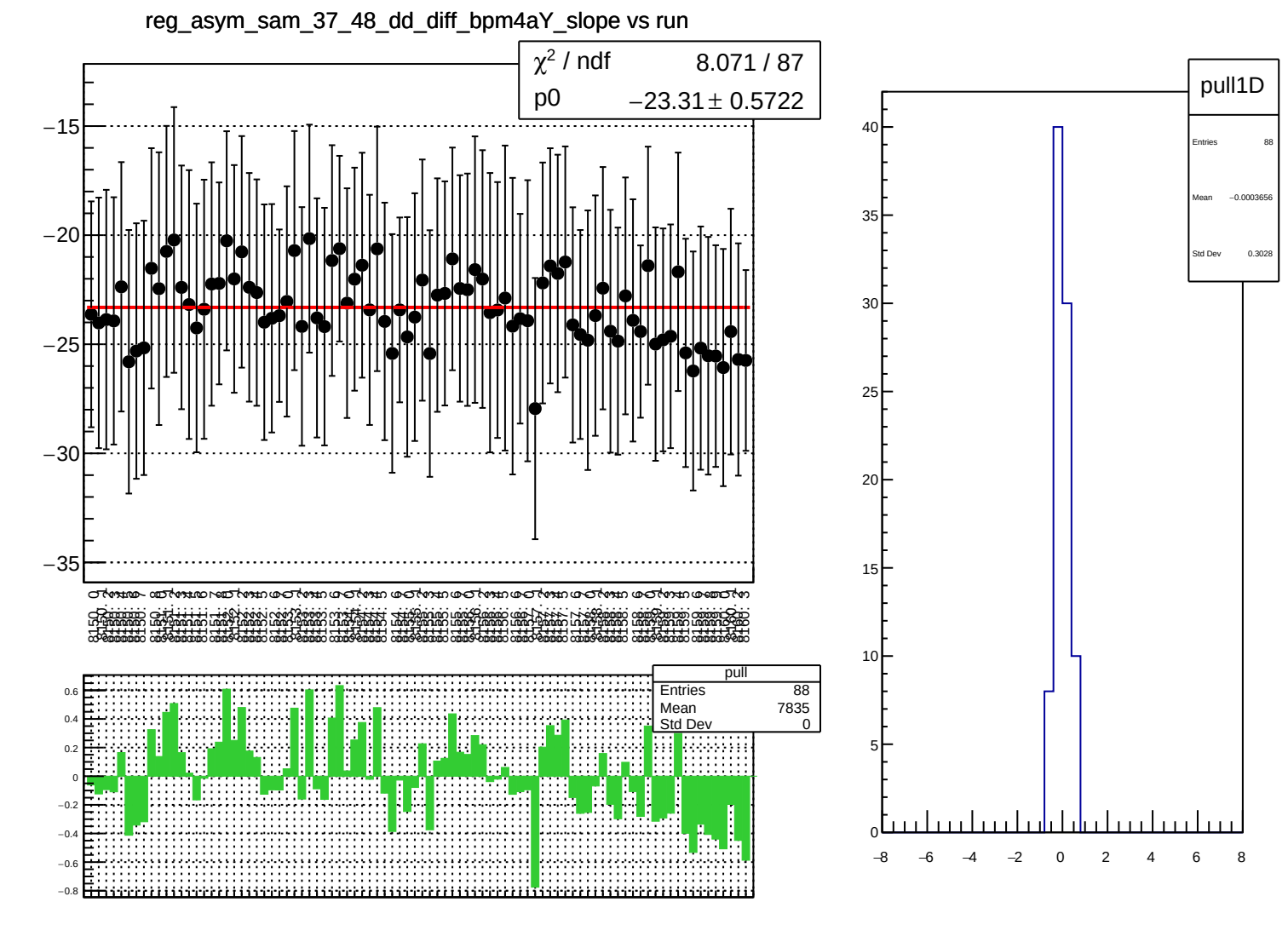

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.5986 / 87
p0 −11.49 ± 1.497
pull
Entries 88
Mean −477
Std Dev 0
pull1D
Entries 88
Mean 0.001334
Std Dev 0.08247

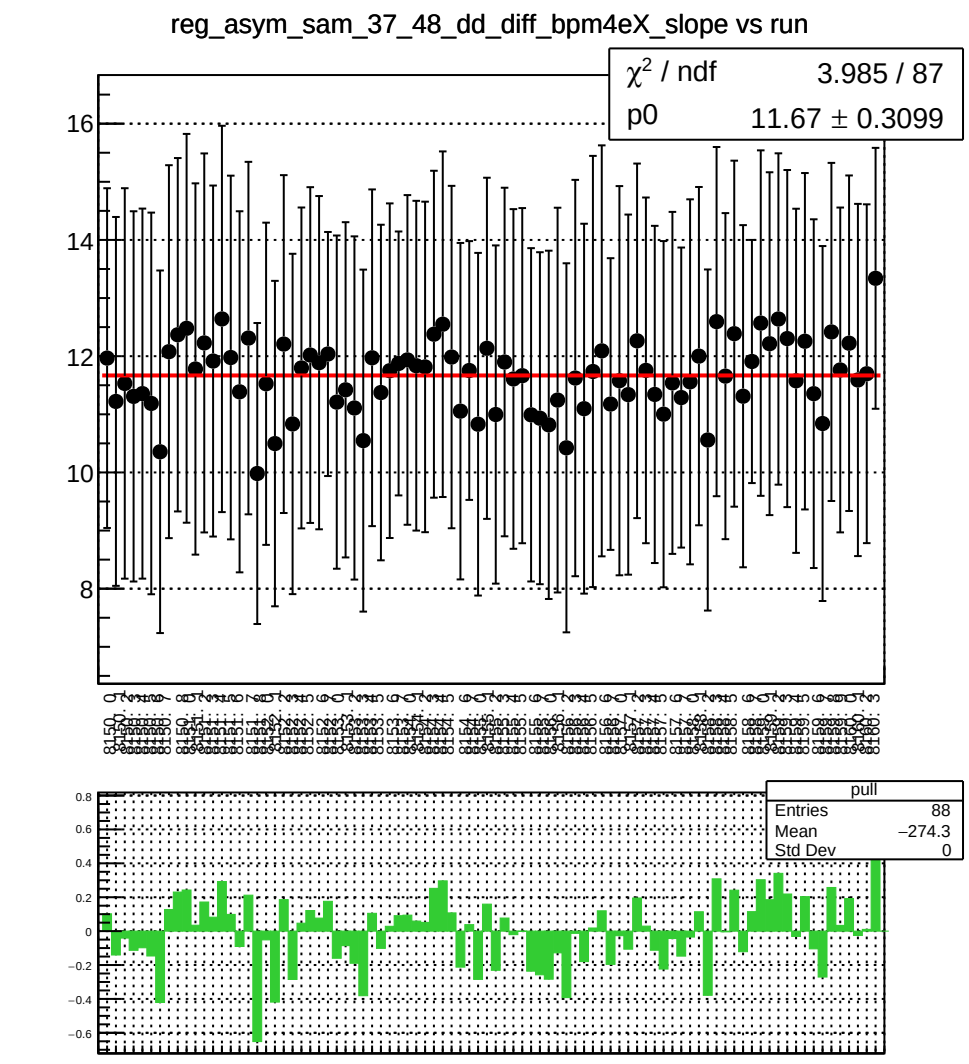

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6489 / 87
p0 55.57 ± 0.8102
pull
Entries 88
Mean −399
Std Dev 0
pull1D
Entries 88
Mean −0.001706
Std Dev 0.08585

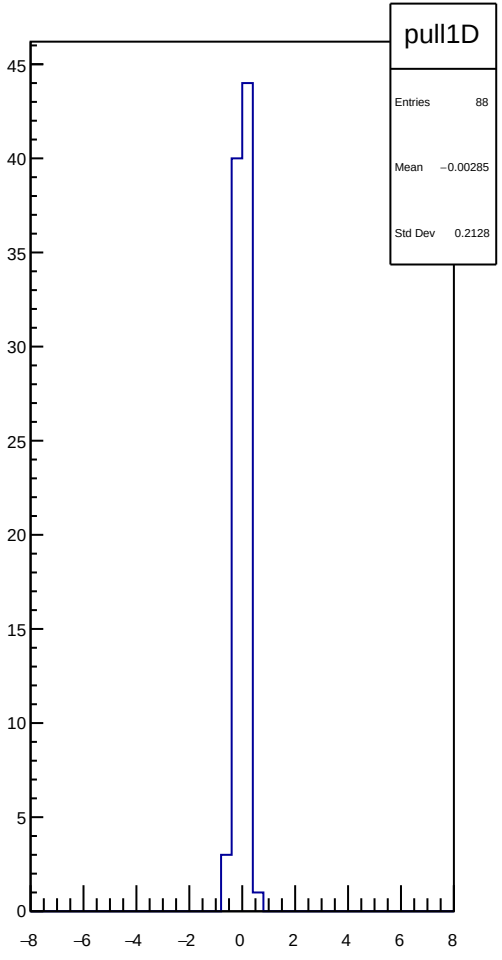

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.6489 / 87
p0 −22.29 ± 1.604
pull
Entries 88
Mean −494.3
Std Dev 0
pull1D
Entries 88
Mean −0.001209
Std Dev 0.08586

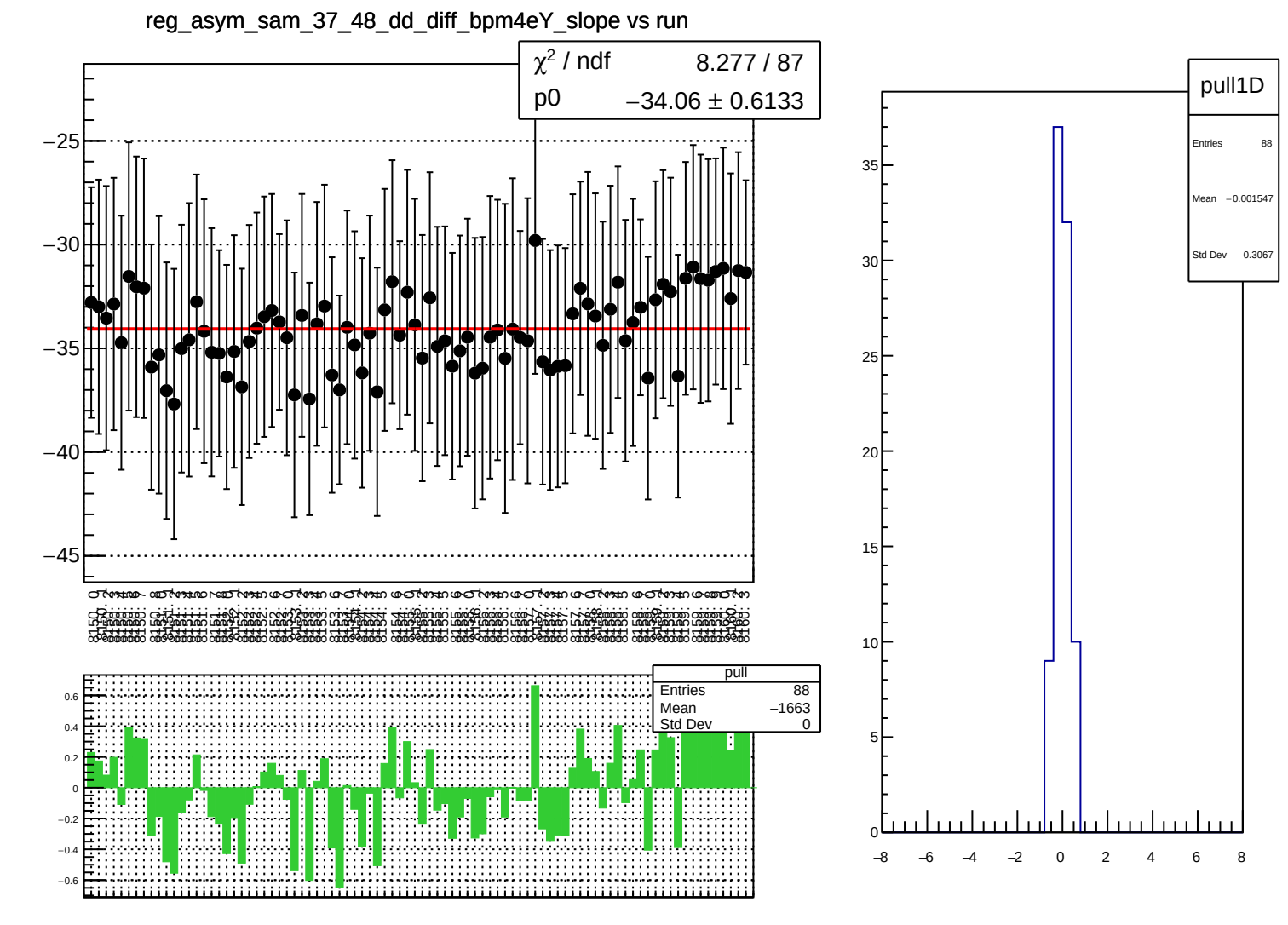

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.4676 / 87
p0 −0.2037 ± 0.07512
pull
Entries 88
Mean 2.77
Std Dev 118.8
pull1D
Entries 88
Mean −0.0009817
Std Dev 0.07289

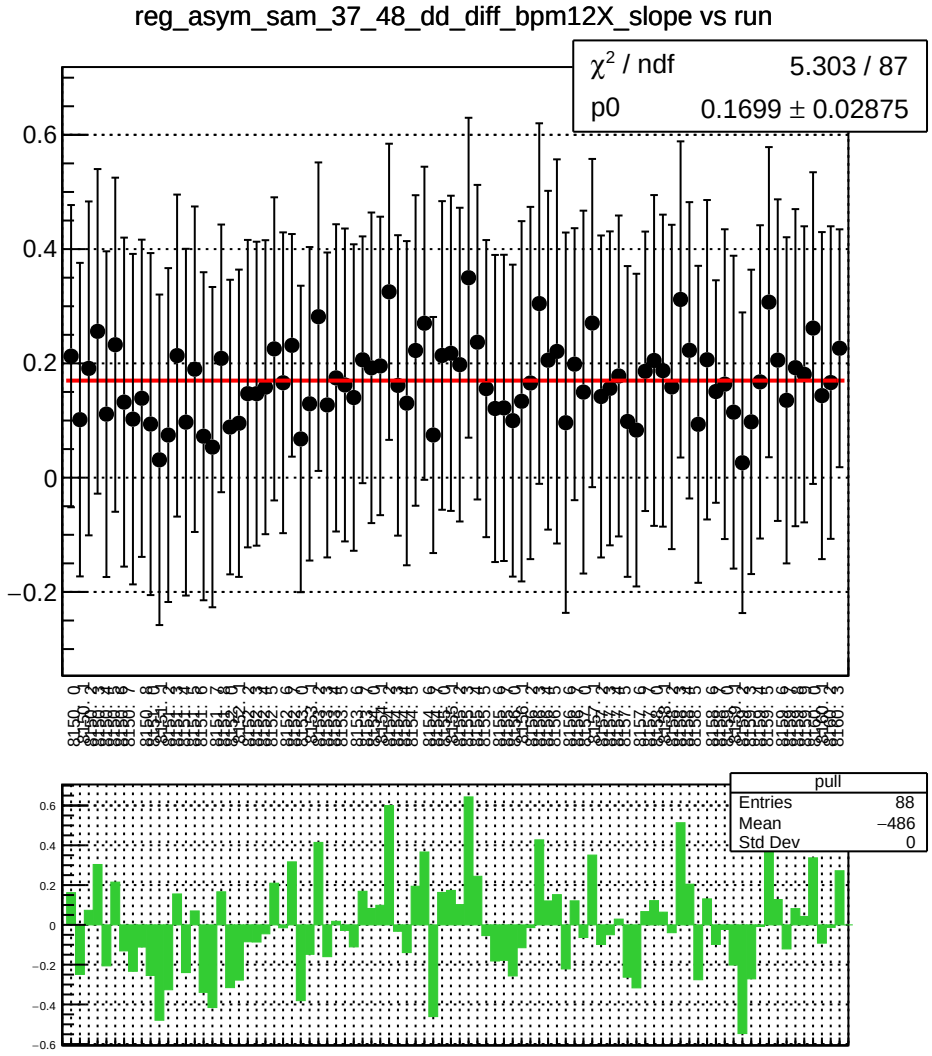

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.498 / 87
p0 −2.409 ± 0.3057
pull
Entries 88
Mean −451.8
Std Dev 0
pull1D
Entries 88
Mean 0.002787
Std Dev 0.2261

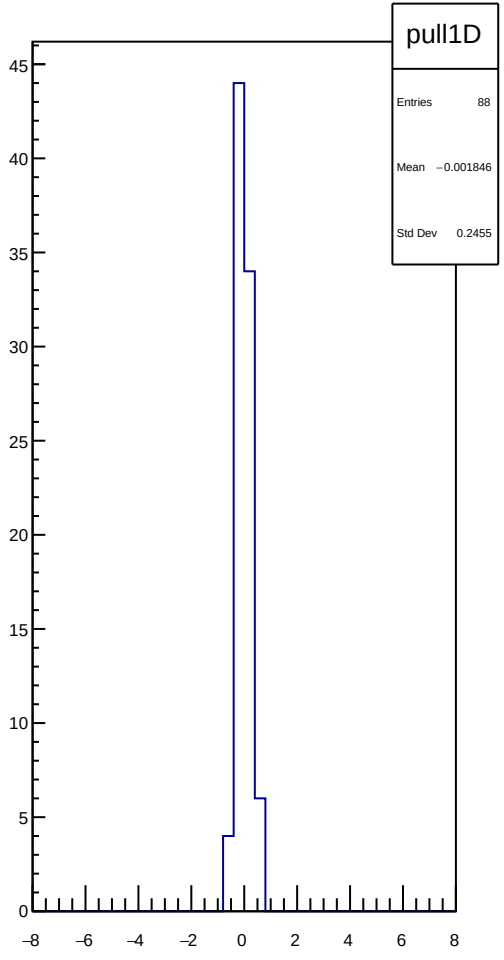

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.071 / 87
p0 −23.31 ± 0.5722
pull
Entries 88
Mean 7835
Std Dev 0
pull1D
Entries 88
Mean −0.0003656
Std Dev 0.3028

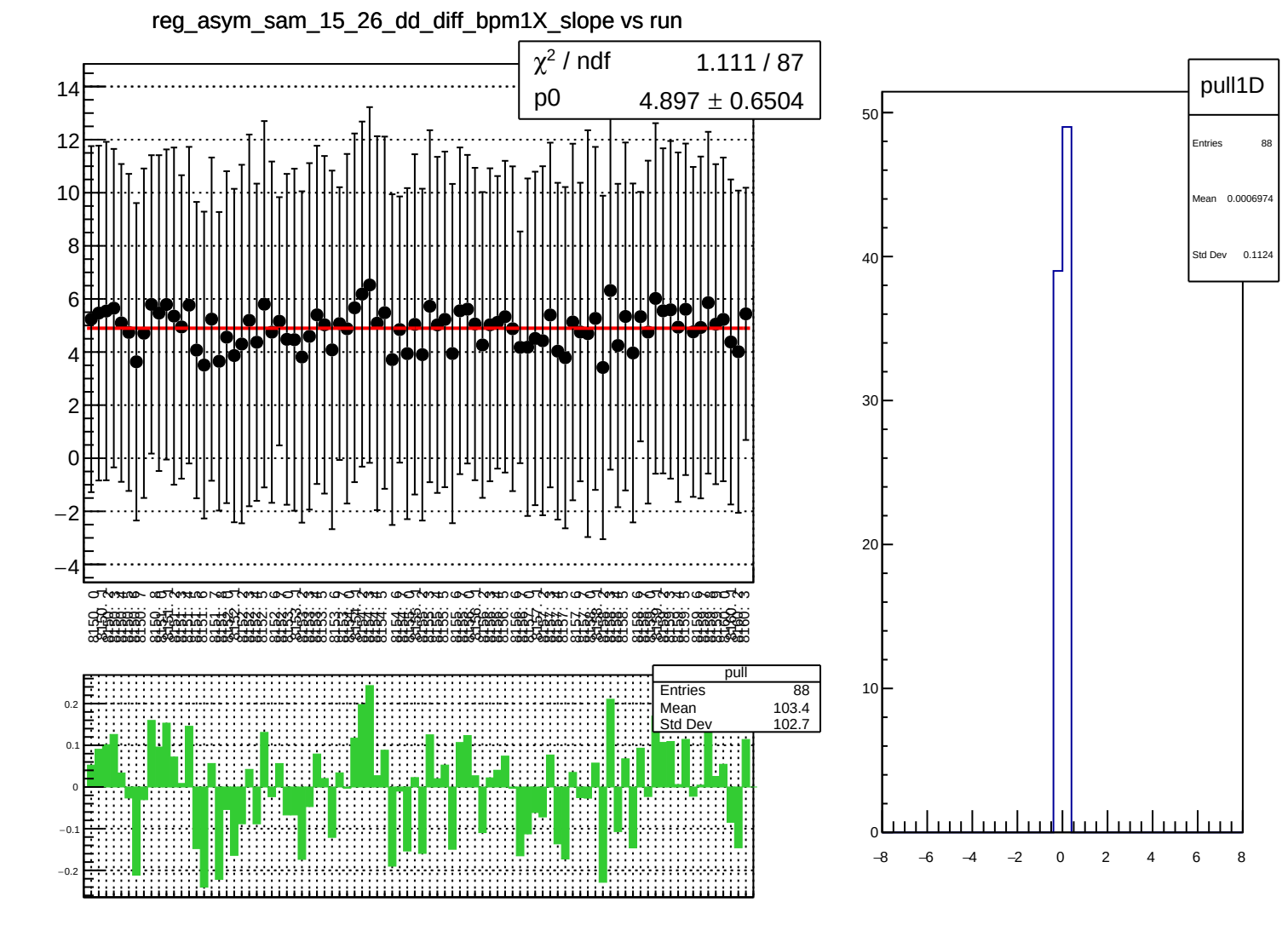

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.985 / 87
p0 11.67 ± 0.3099
pull
Entries 88
Mean −274.3
Std Dev 0

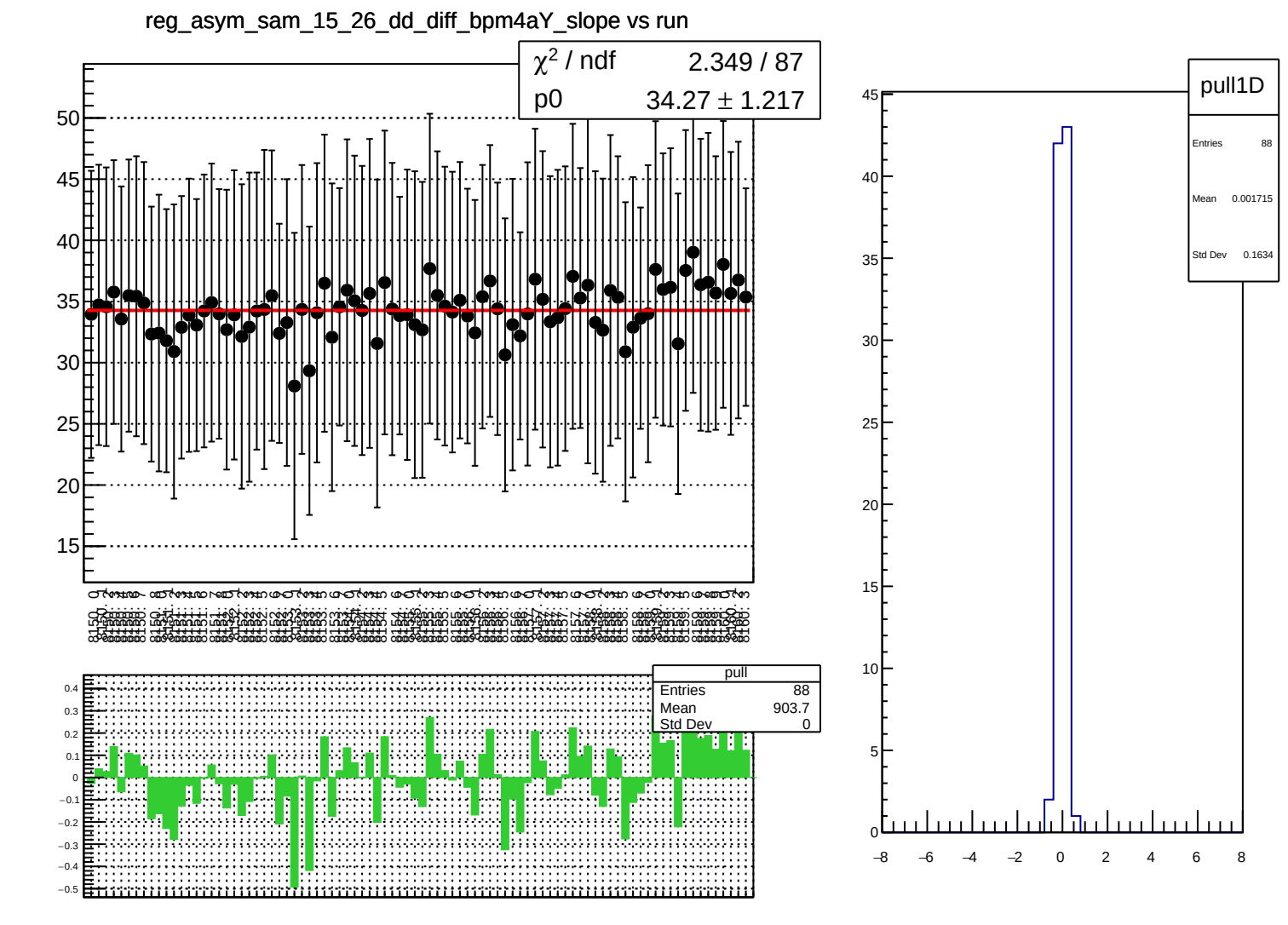

pull1D
Entries 88
Mean −0.00285
Std Dev 0.2128

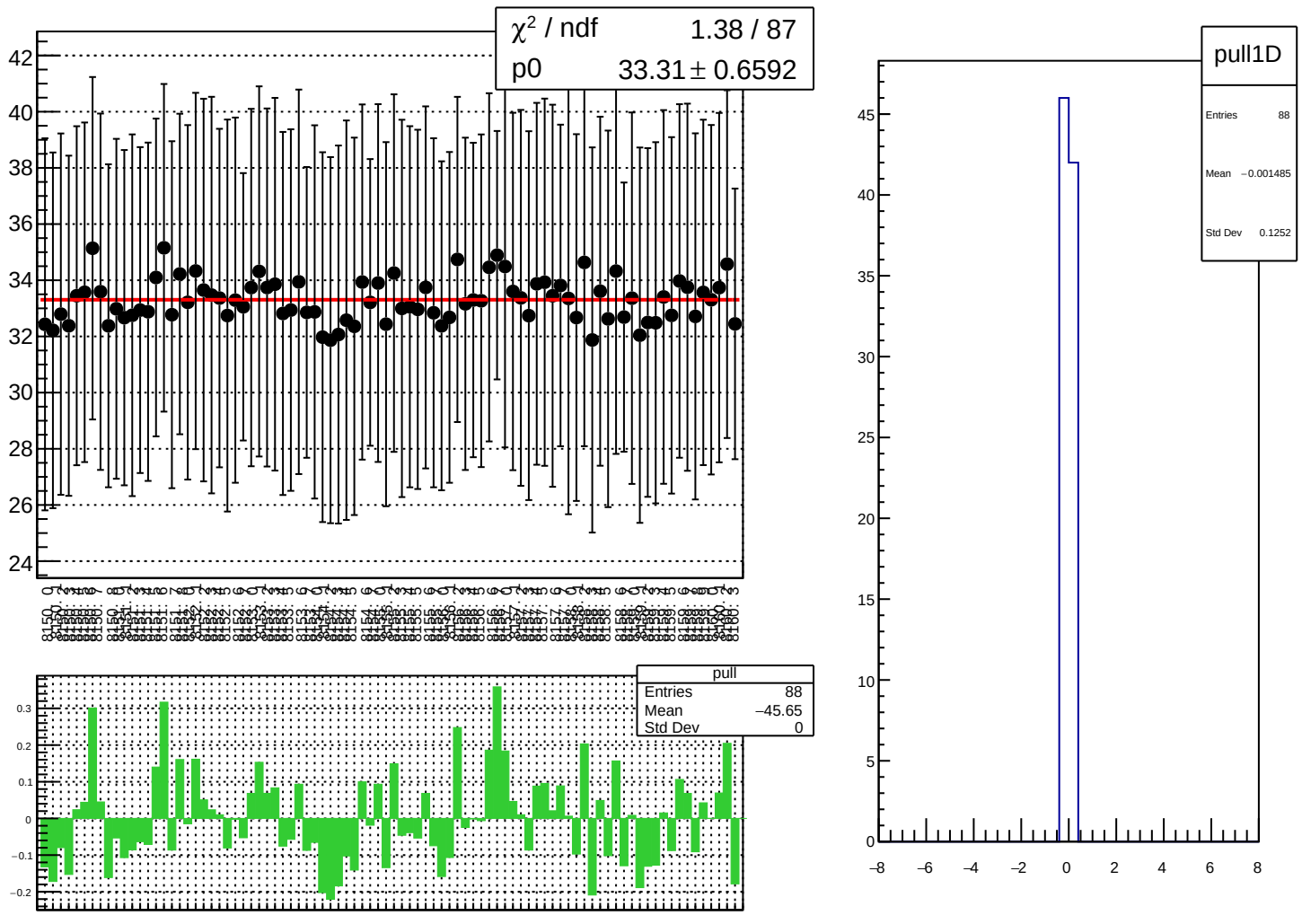

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.277 / 87
p0 −34.06 ± 0.6133
pull
Entries 88
Mean −1663
Std Dev 0
pull1D
Entries 88
Mean −0.001547
Std Dev 0.3067

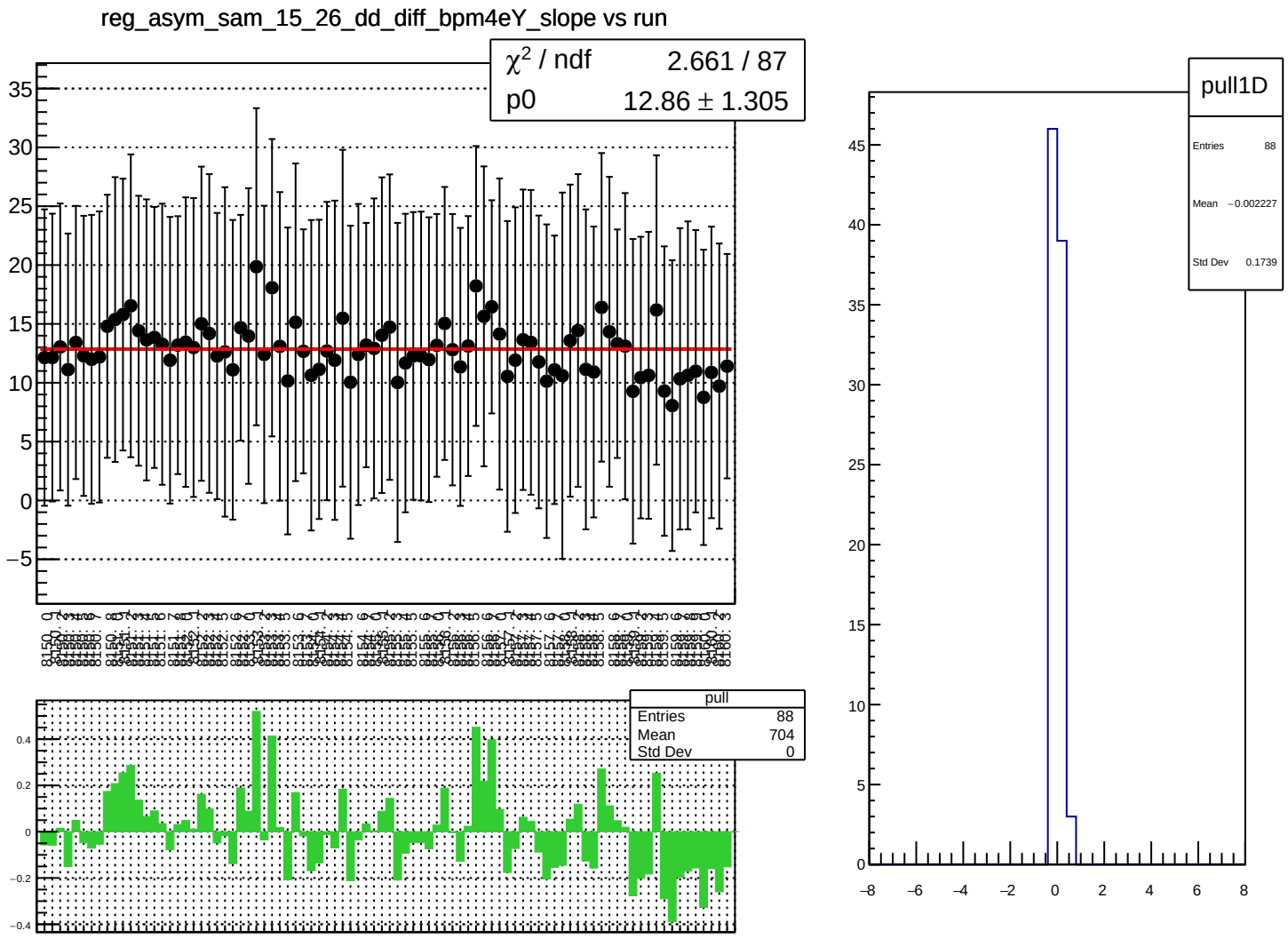

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 5.303 / 87
p0 0.1699 ± 0.02875
pull
Entries 88
Mean −486
Std Dev 0

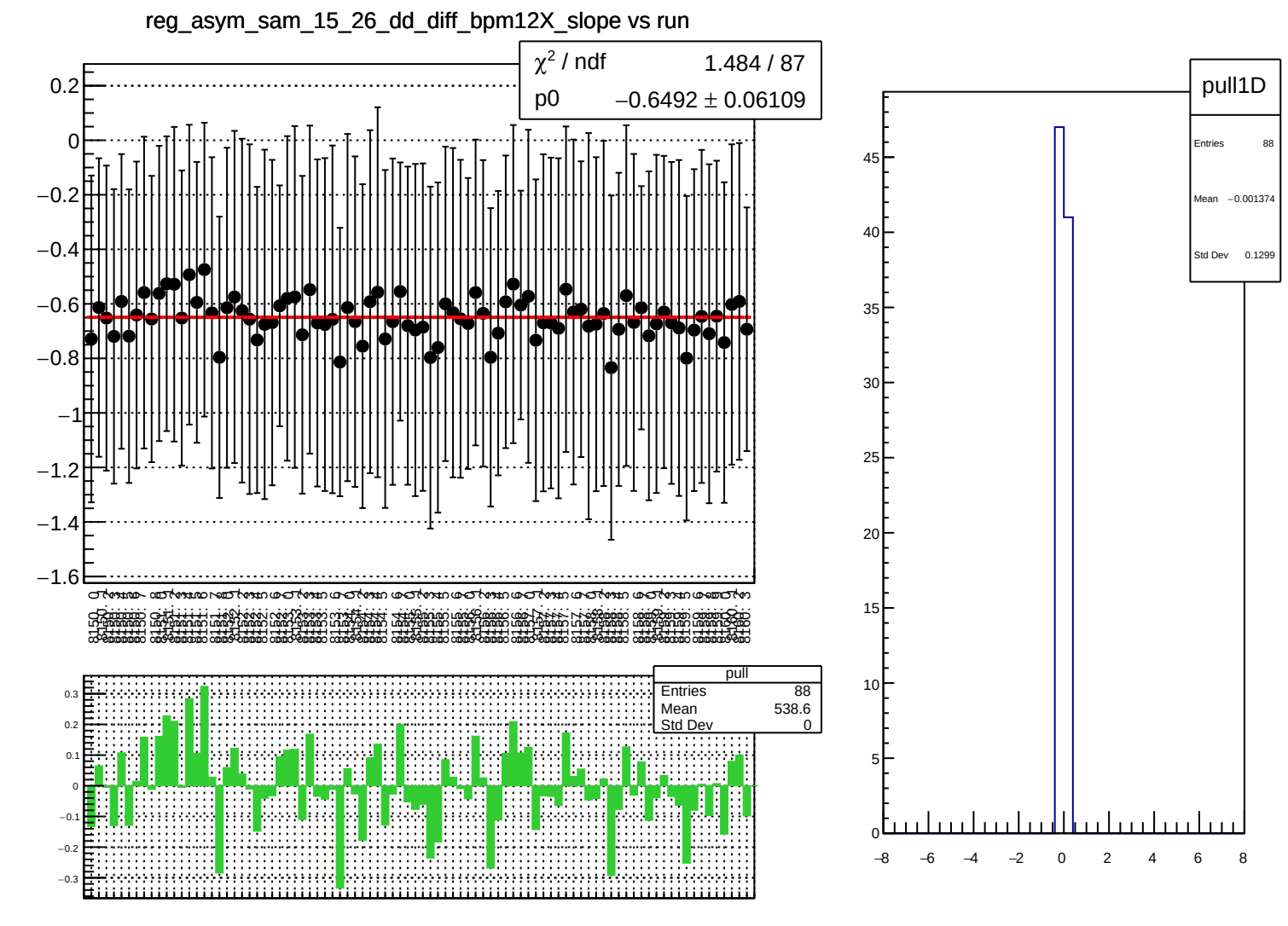

pull1D
Entries 88
Mean −0.001846
Std Dev 0.2455

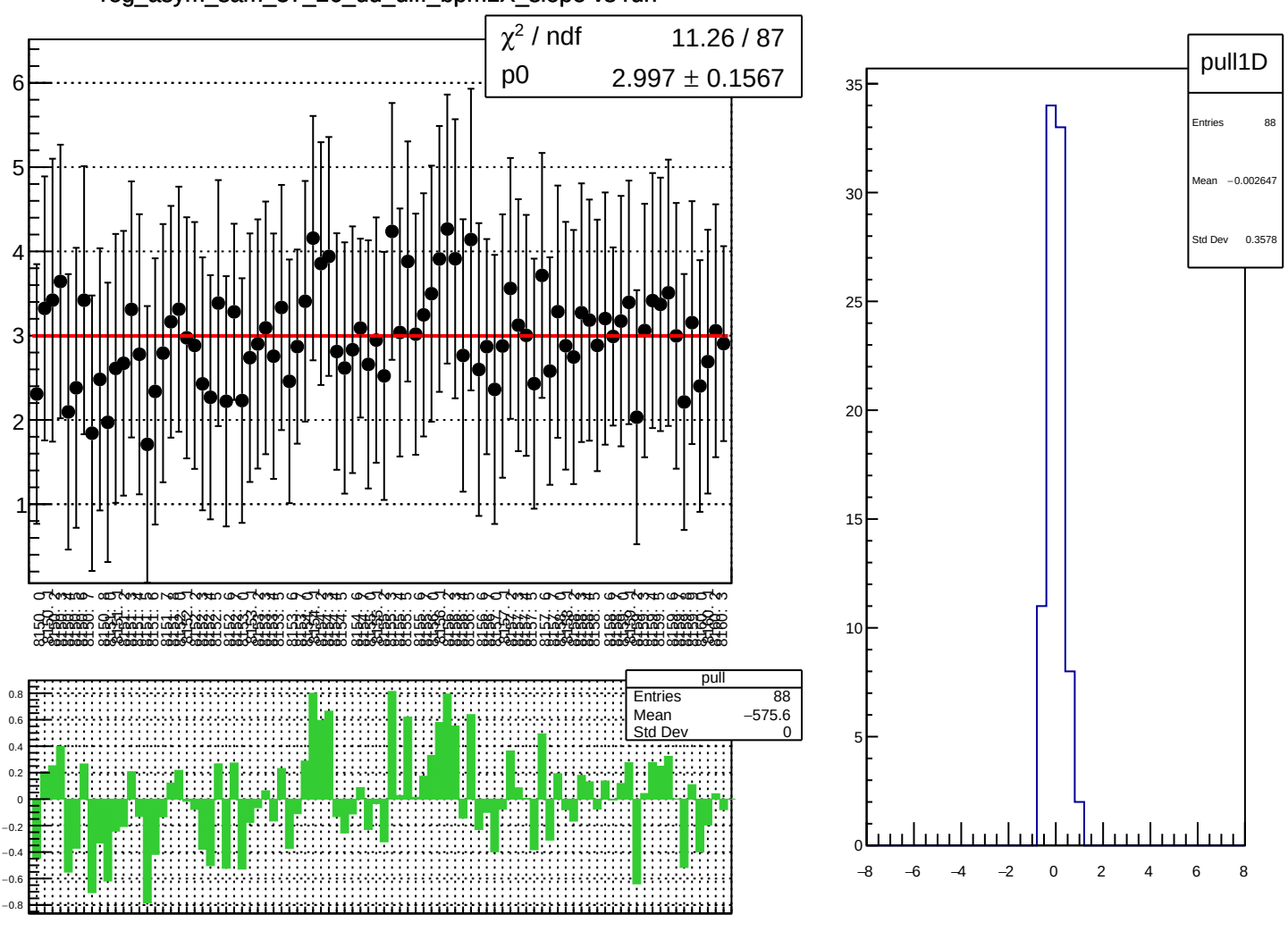

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.111 / 87
p0 4.897 ± 0.6504
pull
Entries 88
Mean 103.4
Std Dev 102.7
pull1D
Entries 88
Mean 0.0006974
Std Dev 0.1124

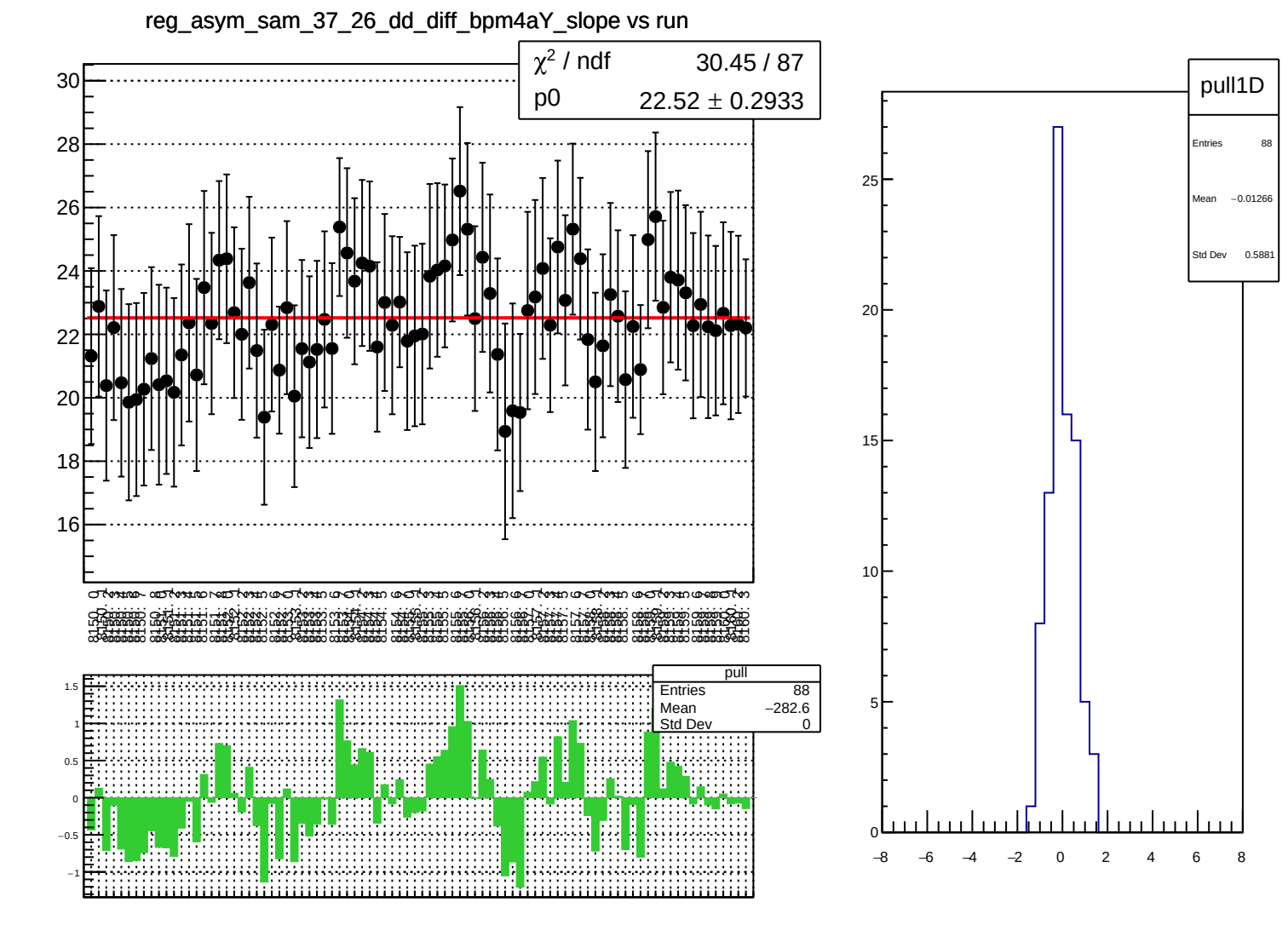

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.349 / 87
p0 34.27 ± 1.217
pull
Entries 88
Mean 903.7
Std Dev 0
pull1D
Entries 88
Mean 0.001715
Std Dev 0.1634

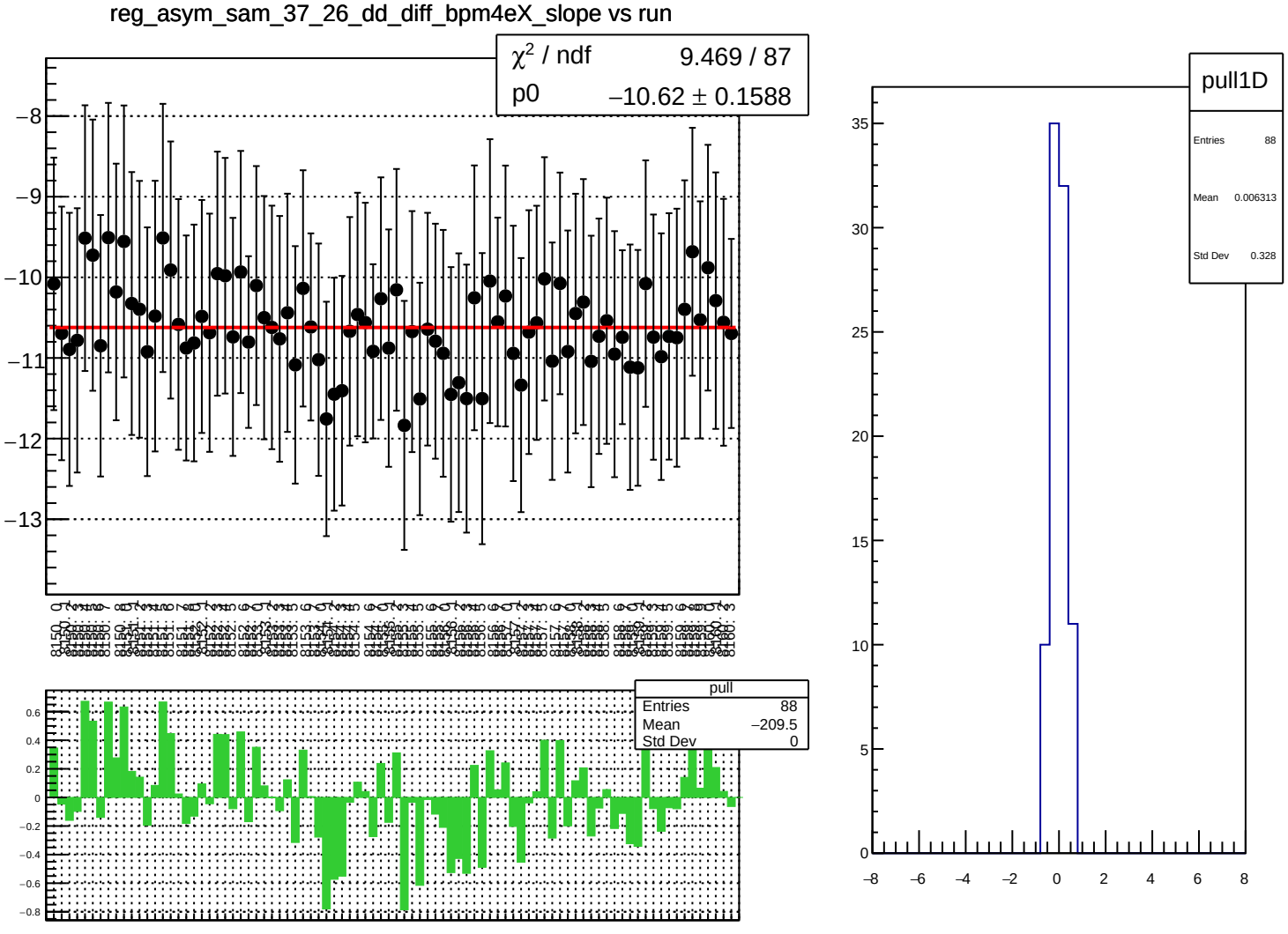

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.38 / 87
p0 33.31 ± 0.6592
pull
Entries 88
Mean −45.65
Std Dev 0
pull1D
Entries 88
Mean −0.001485
Std Dev 0.1252

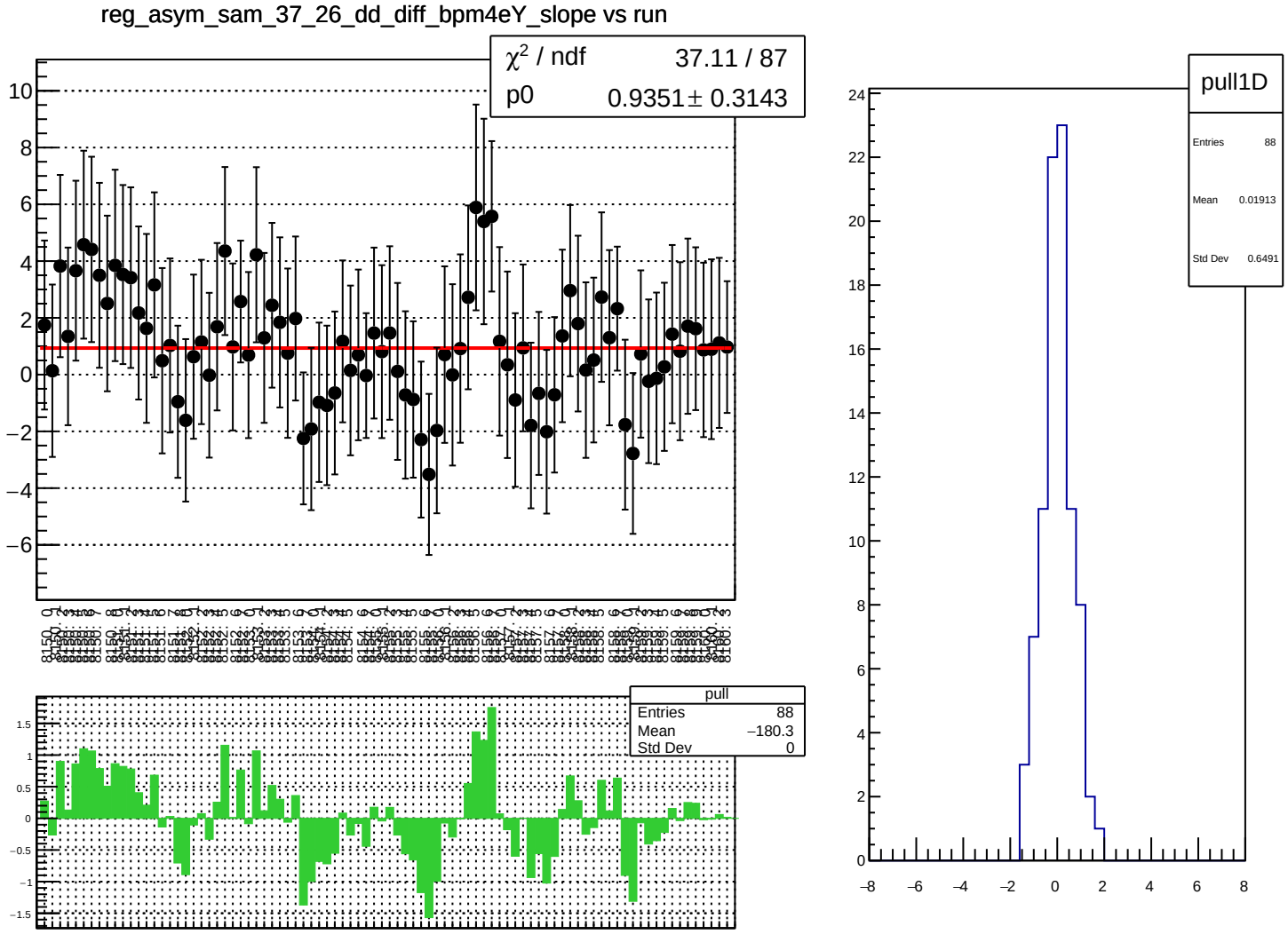

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.661 / 87
p0 12.86 ± 1.305
pull
Entries 88
Mean 704
Std Dev 0
pull1D
Entries 88
Mean −0.002227
Std Dev 0.1739

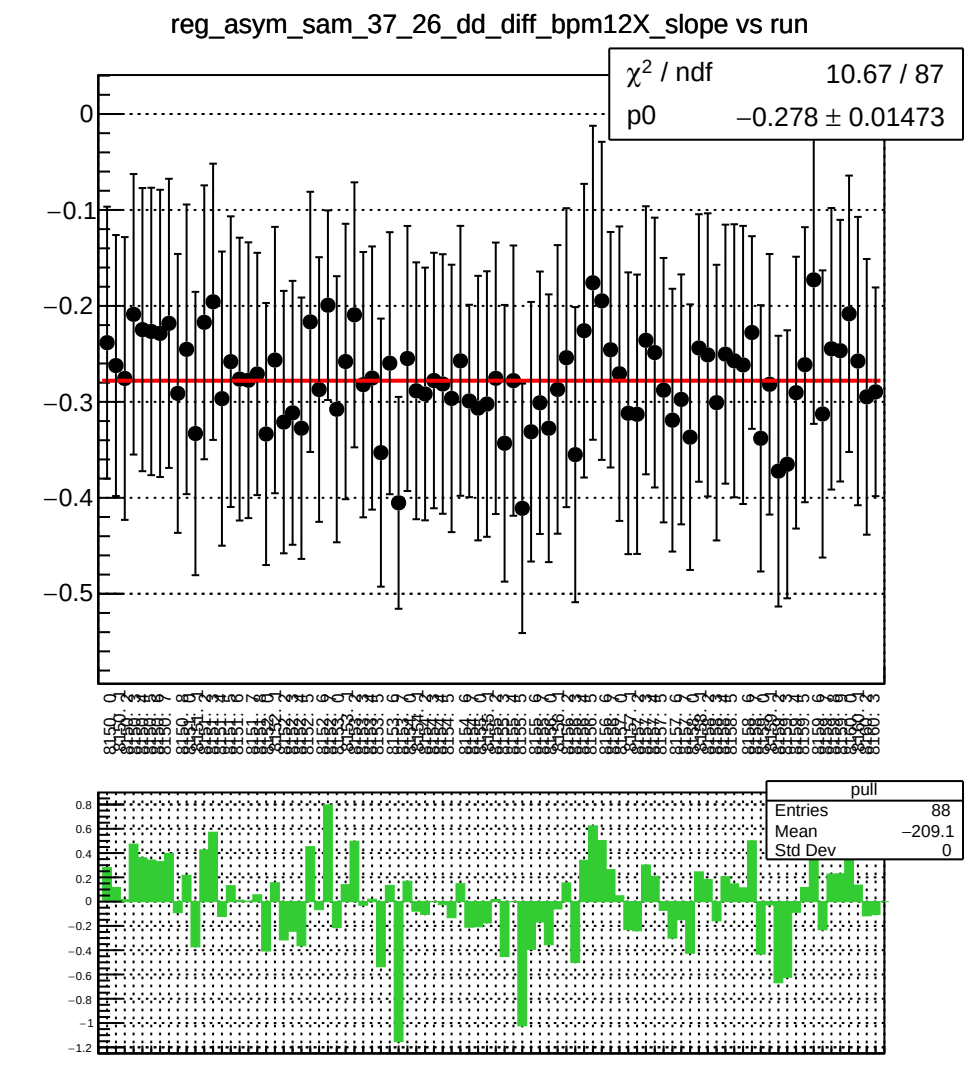

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.484 / 87
p0 −0.6492 ± 0.06109
pull
Entries 88
Mean 538.6
Std Dev 0
pull1D
Entries 88
Mean −0.001374
Std Dev 0.1299

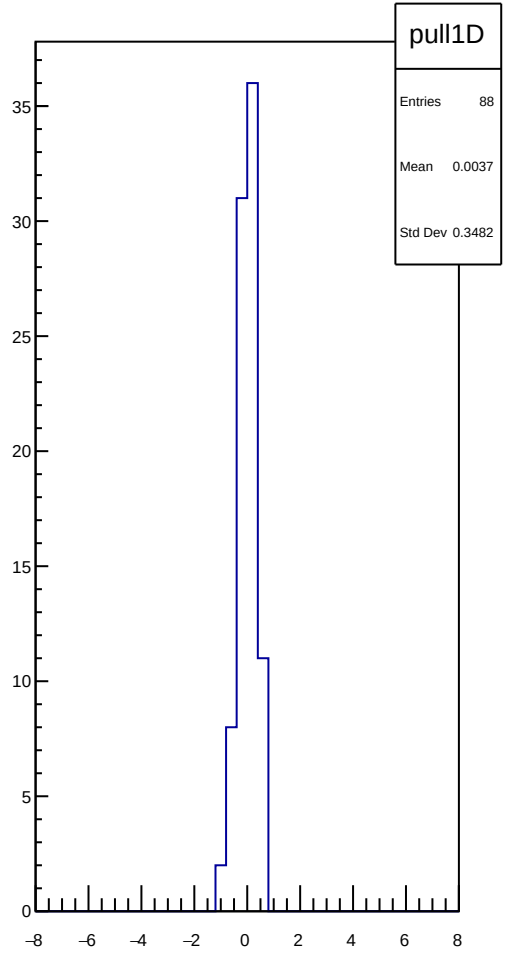

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 11.26 / 87
p0 2.997 ± 0.1567
pull
Entries 88
Mean −575.6
Std Dev 0
pull1D
Entries 88
Mean −0.002647
Std Dev 0.3578

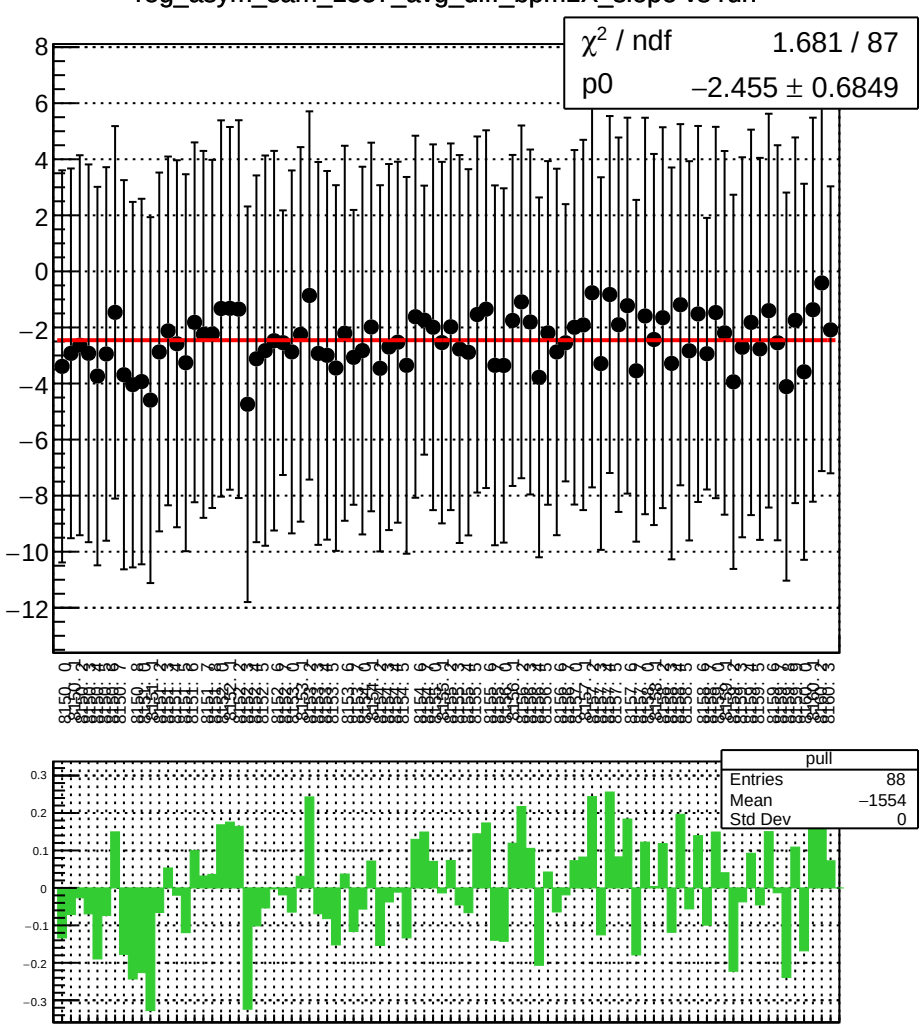

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.45 / 87
p0 22.52 ± 0.2933
pull
Entries 88
Mean −282.6
Std Dev 0
pull1D
Entries 88
Mean −0.01266
Std Dev 0.5881

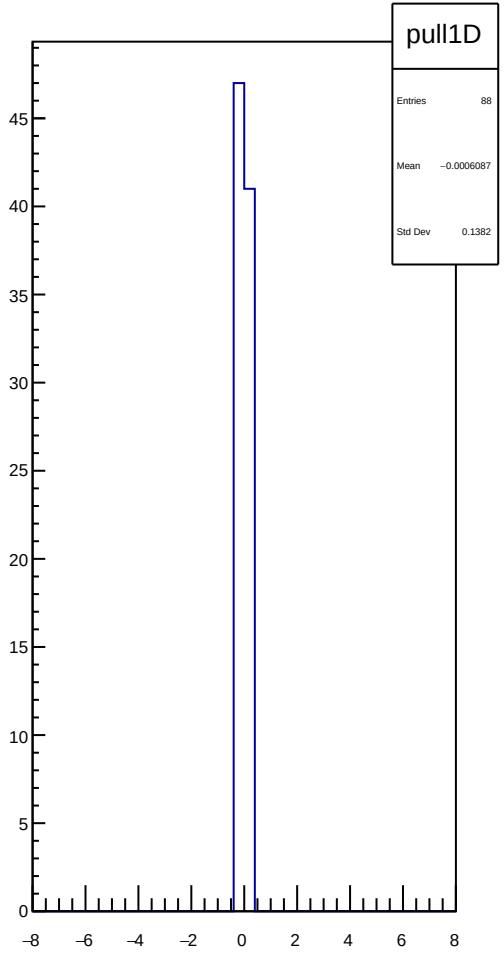

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.469 / 87
p0 −10.62 ± 0.1588
pull
Entries 88
Mean −209.5
Std Dev 0
pull1D
Entries 88
Mean 0.006313
Std Dev 0.328

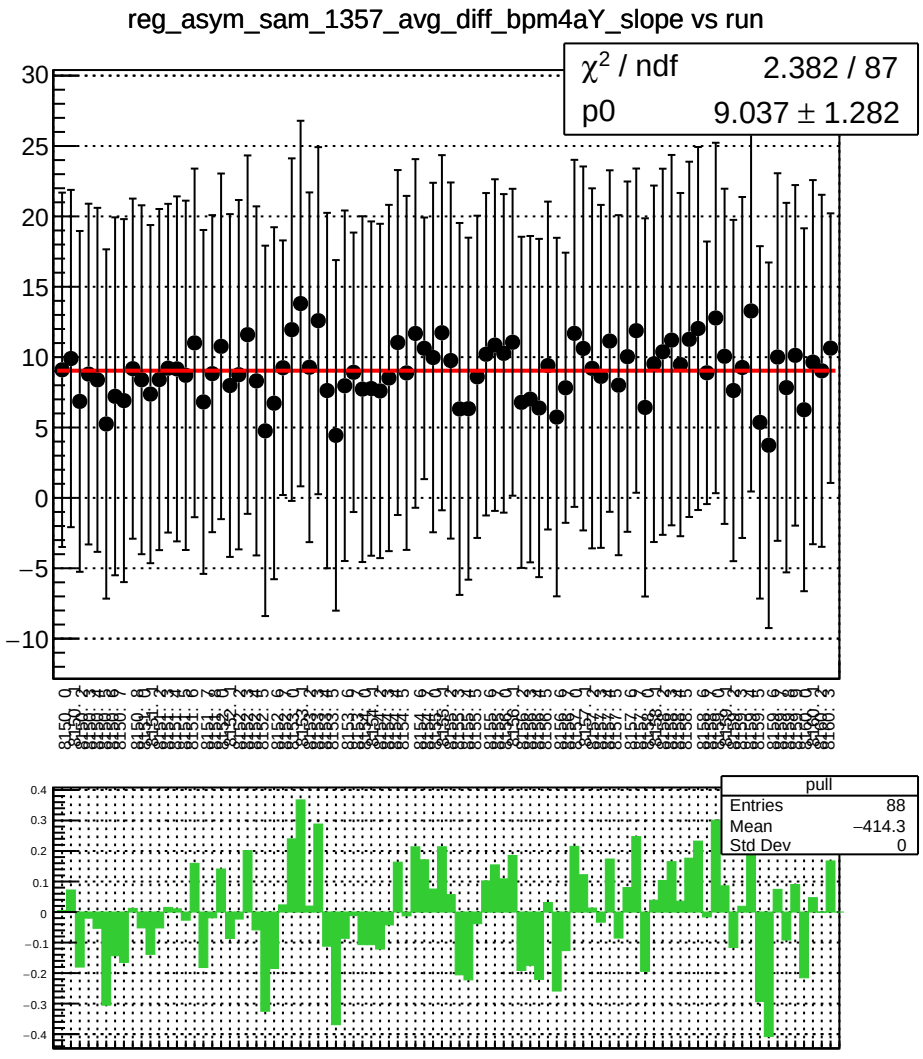

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.11 / 87
p0 0.9351 ± 0.3143
pull
Entries 88
Mean −180.3
Std Dev 0
pull1D
Entries 88
Mean 0.01913
Std Dev 0.6491

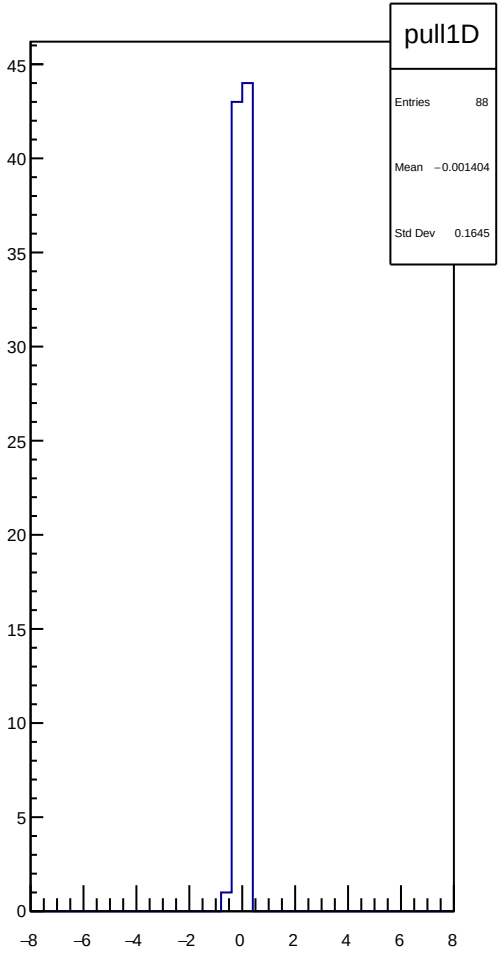

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 10.67 / 87
p0 −0.278 ± 0.01473
pull
Entries 88
Mean −209.1
Std Dev 0

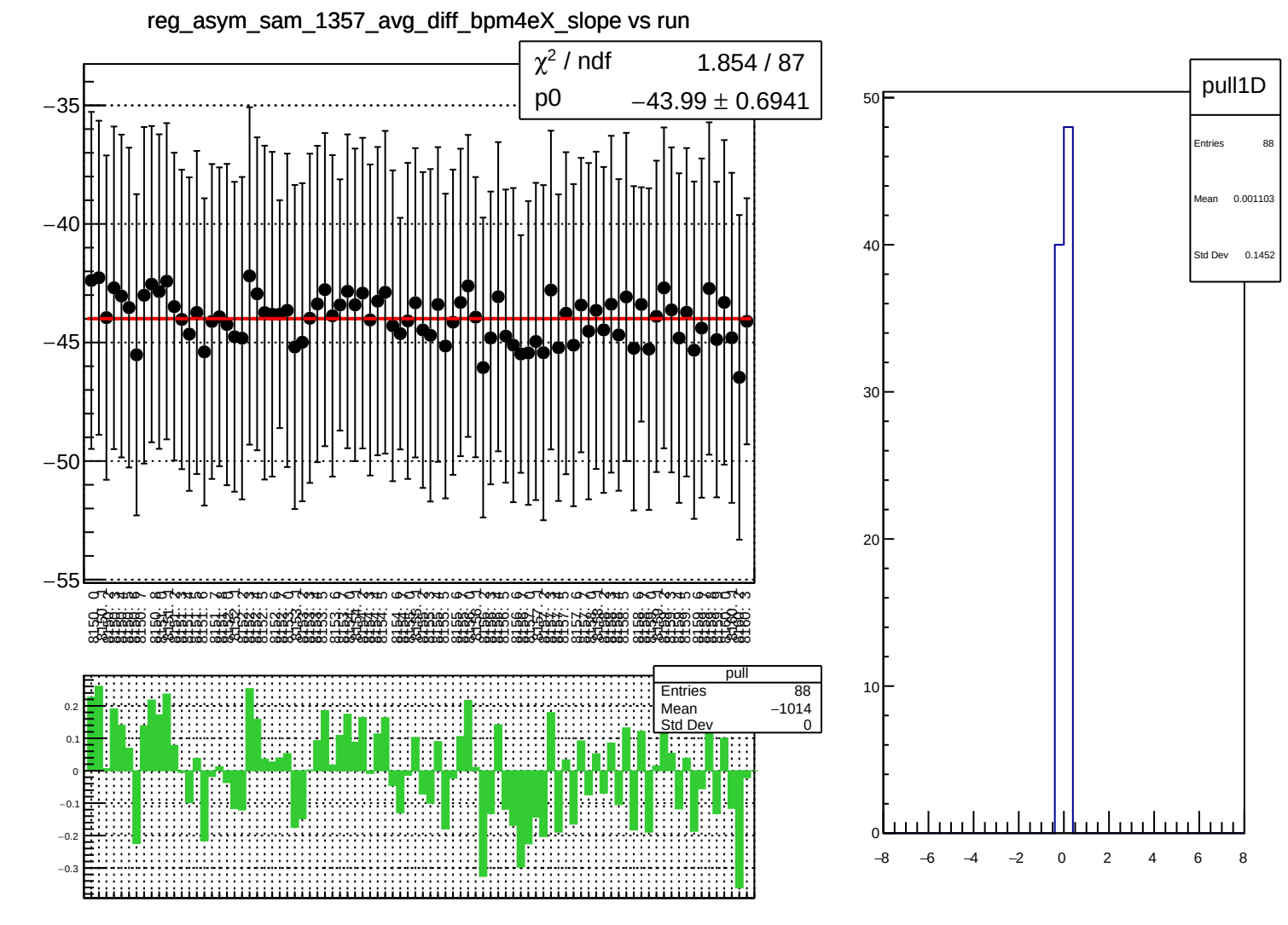

pull1D
Entries 88
Mean 0.0037
Std Dev 0.3482

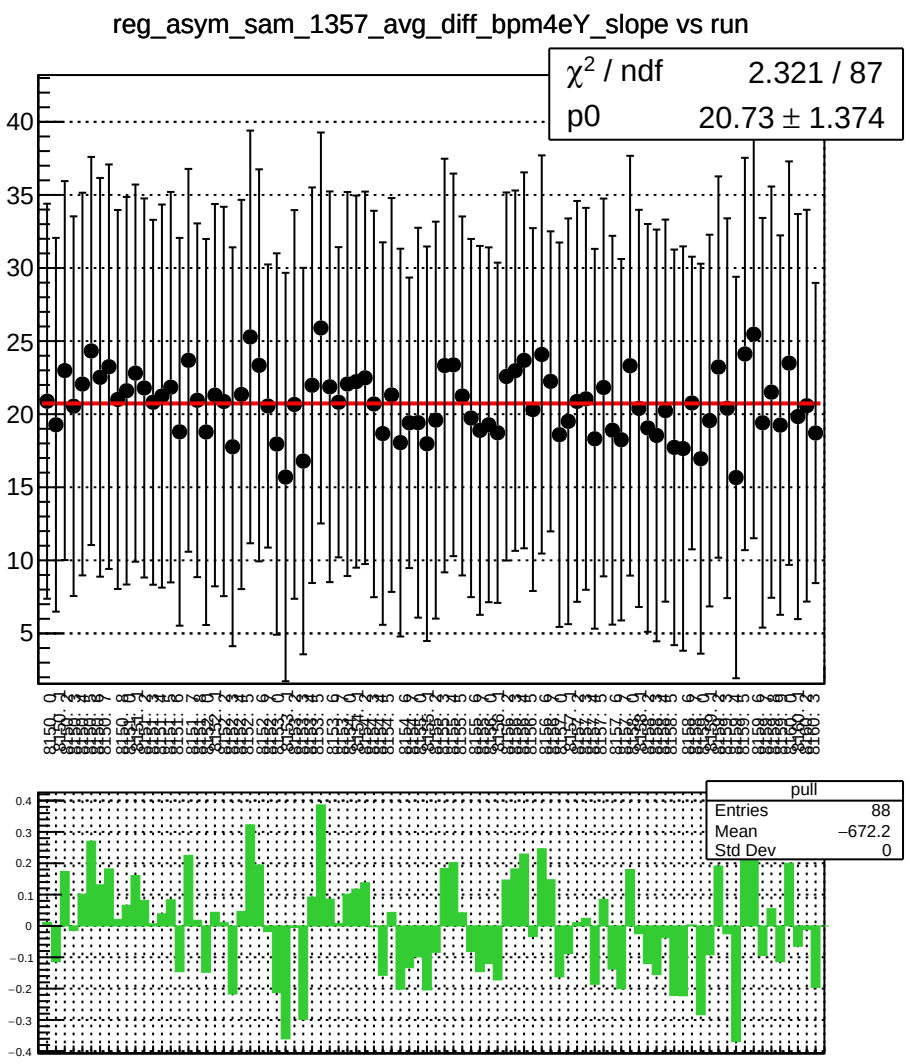

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 1.681 / 87
p0 −2.455 ± 0.6849
pull
Entries 88
Mean −1554
Std Dev 0

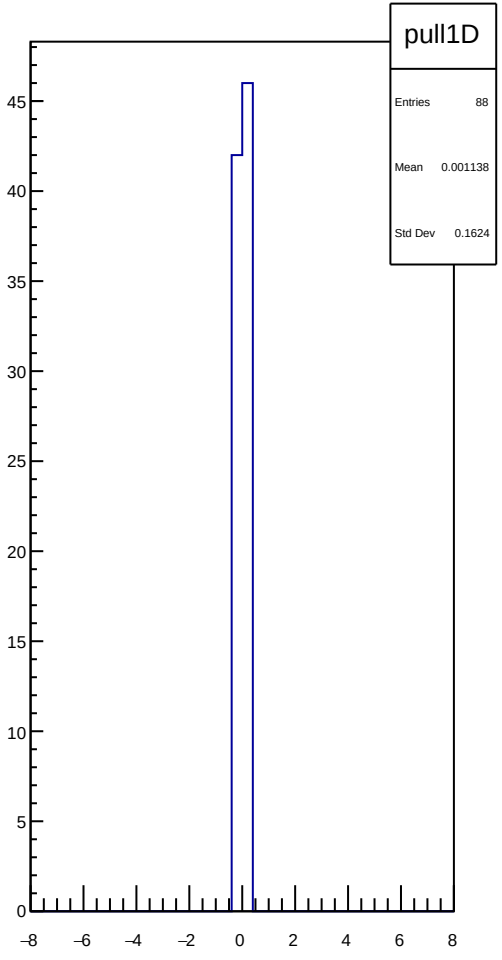

pull1D
Entries 88
Mean −0.0006087
Std Dev 0.1382

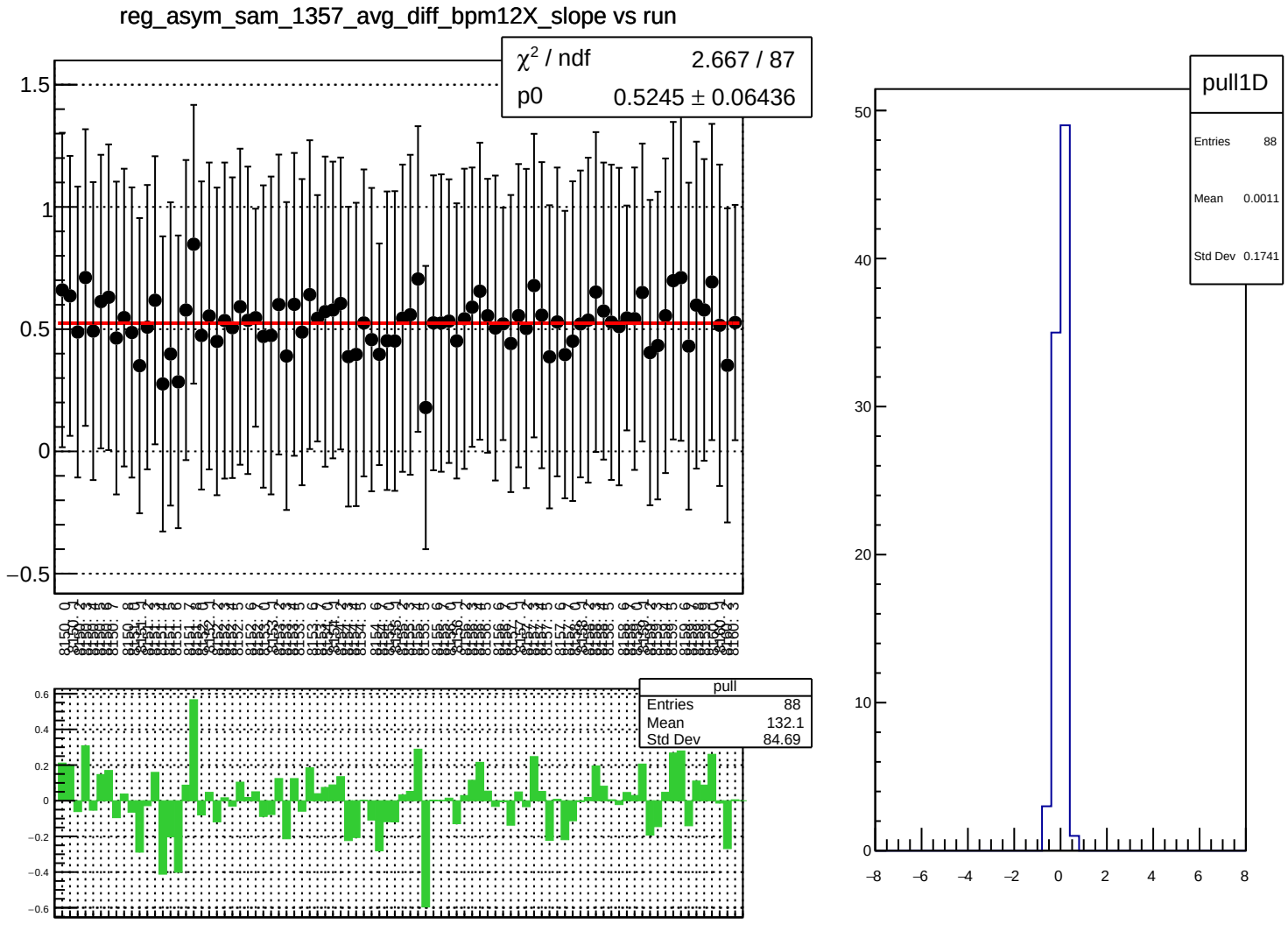

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.382 / 87
p0 9.037 ± 1.282
pull
Entries 88
Mean −414.3
Std Dev 0

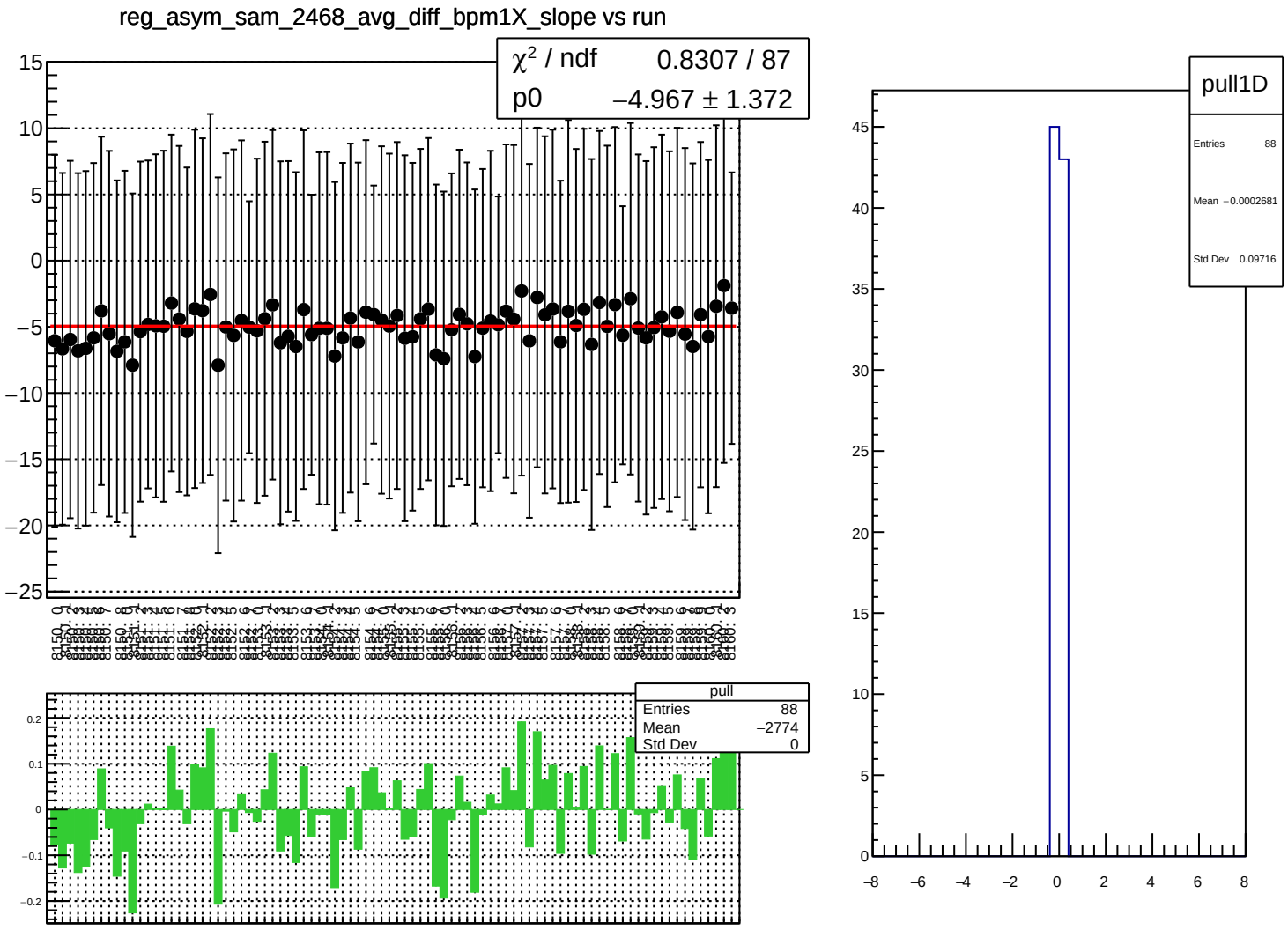

pull1D
Entries 88
Mean −0.001404
Std Dev 0.1645

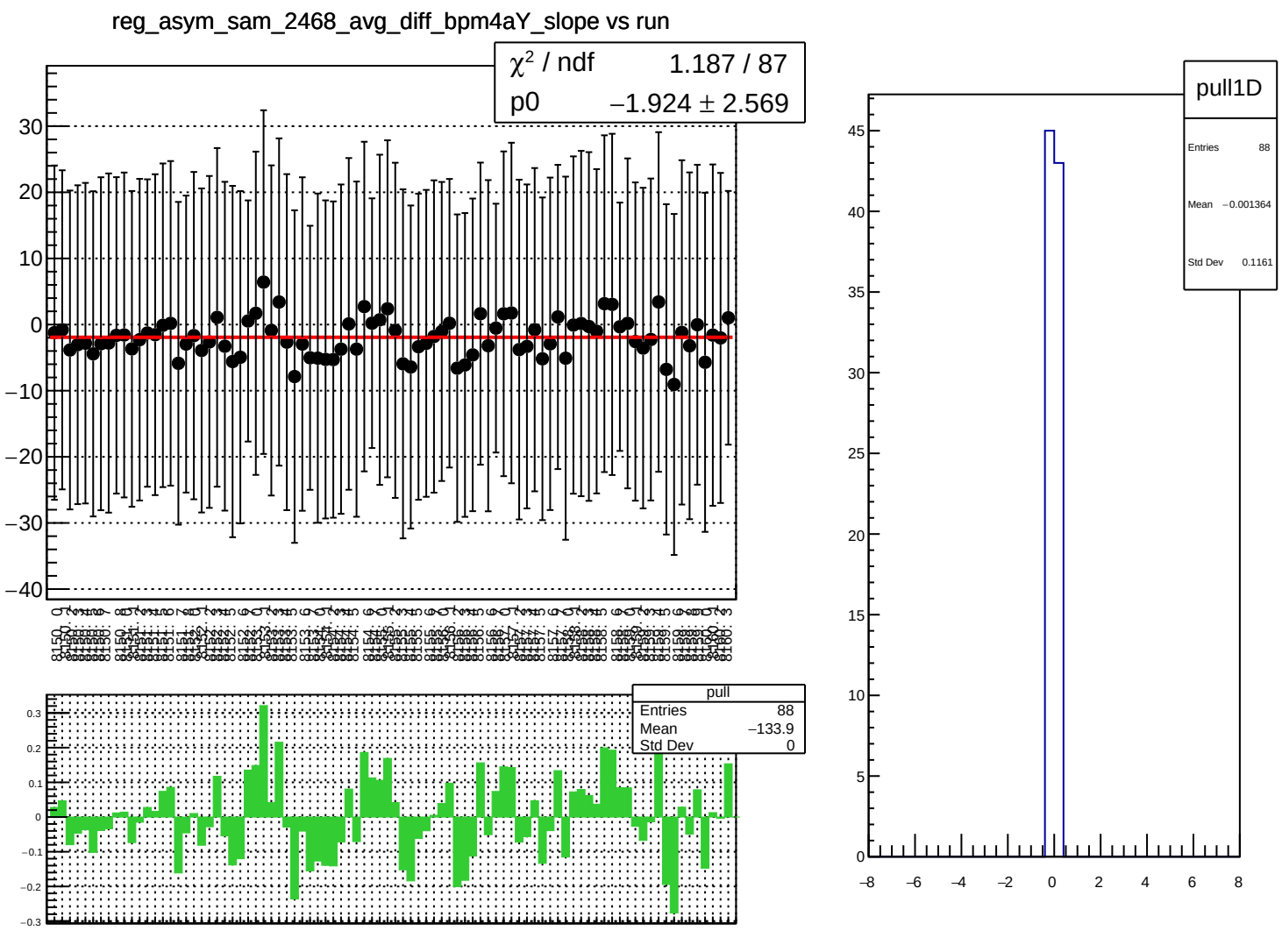

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.854 / 87
p0 −43.99 ± 0.6941
−35
−40
−45
−50
−55
pull
Entries 88
Mean −1014
Std Dev 0
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 88
Mean 0.001103
Std Dev 0.1452
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

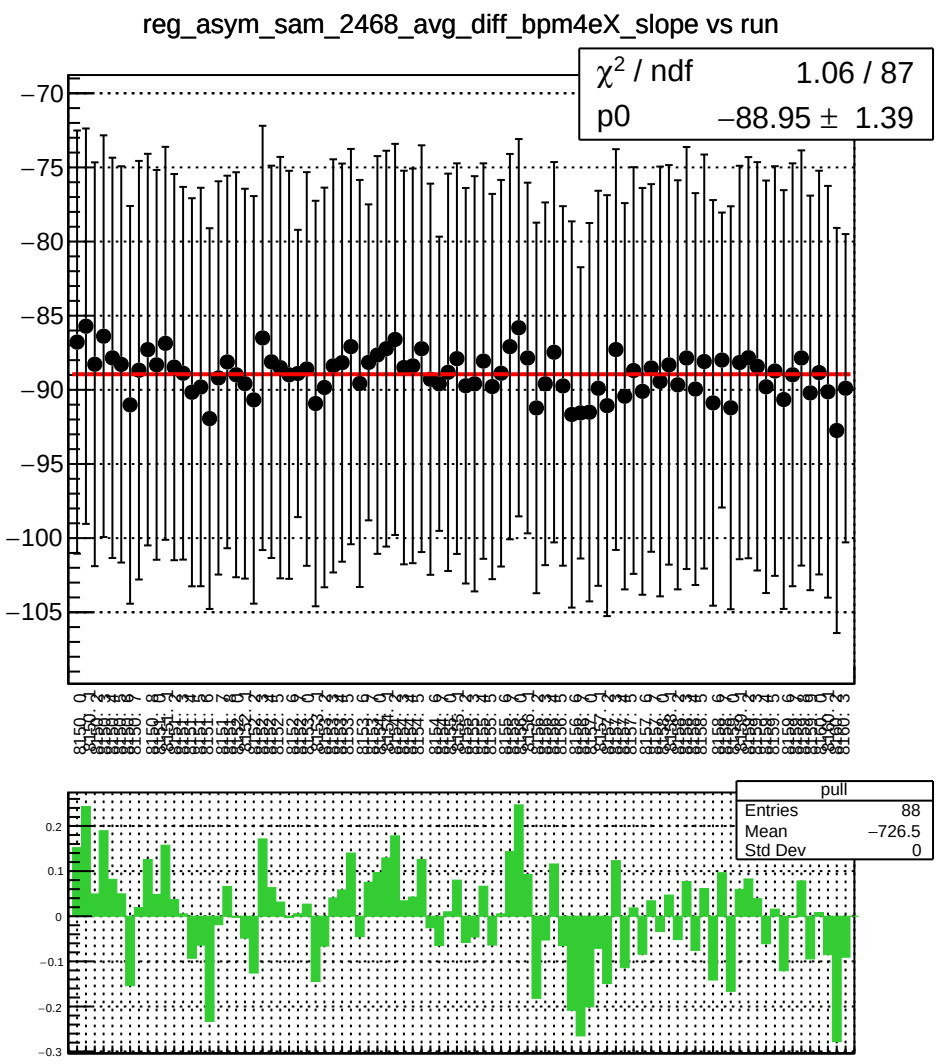

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.321 / 87
p0 20.73 ± 1.374
pull
Entries 88
Mean −672.2
Std Dev 0

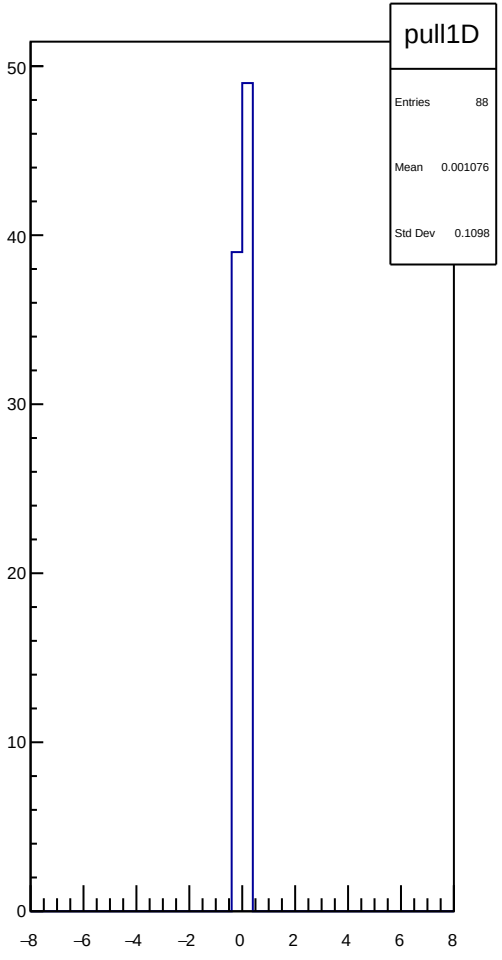

pull1D
Entries 88
Mean 0.001138
Std Dev 0.1624

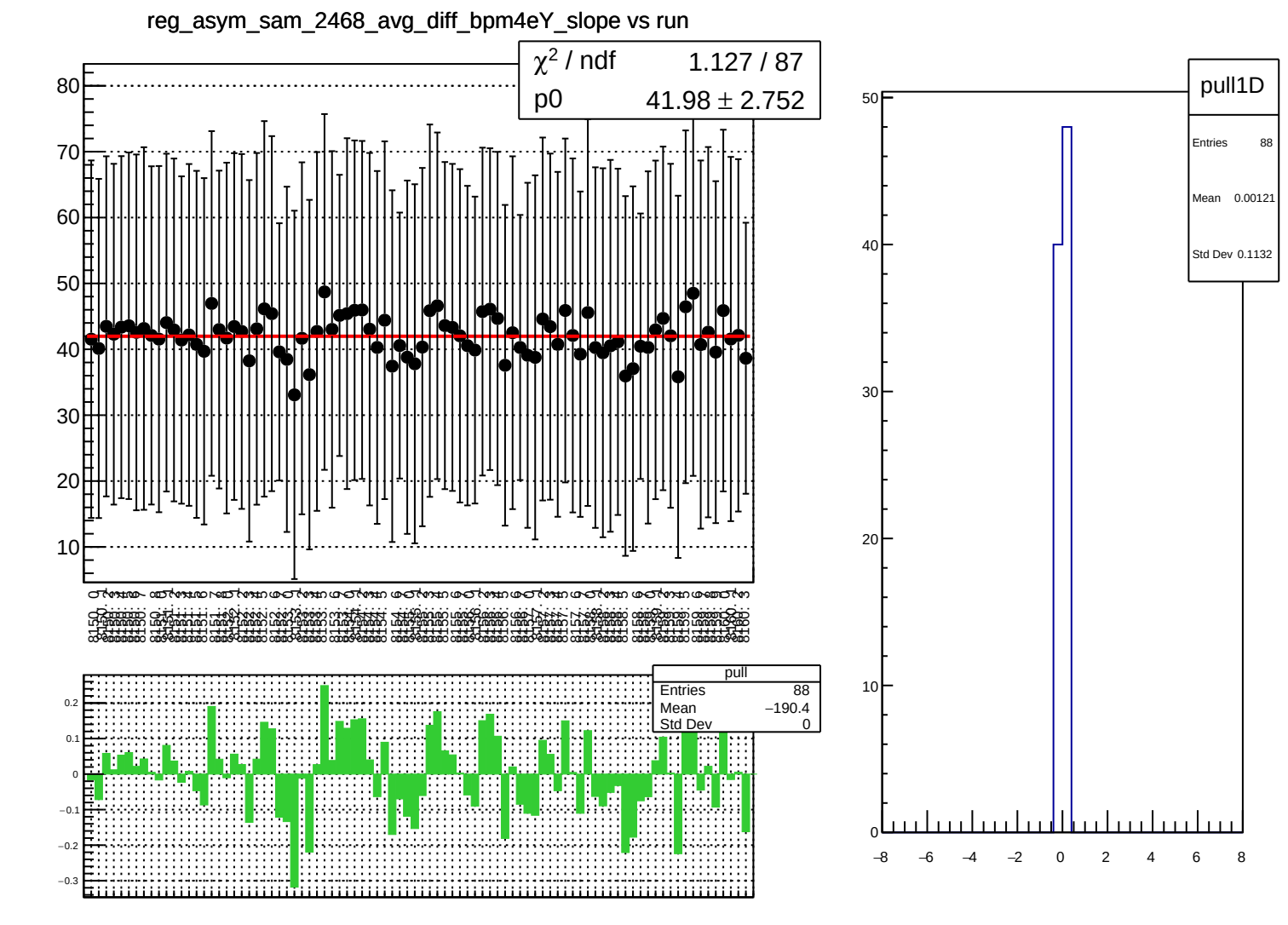

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 2.667 / 87
p0 0.5245 ± 0.06436
1.5
1
0.5
0
−0.5
pull
Entries 88
Mean 132.1
Std Dev 84.69
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.0011
Std Dev 0.1741
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

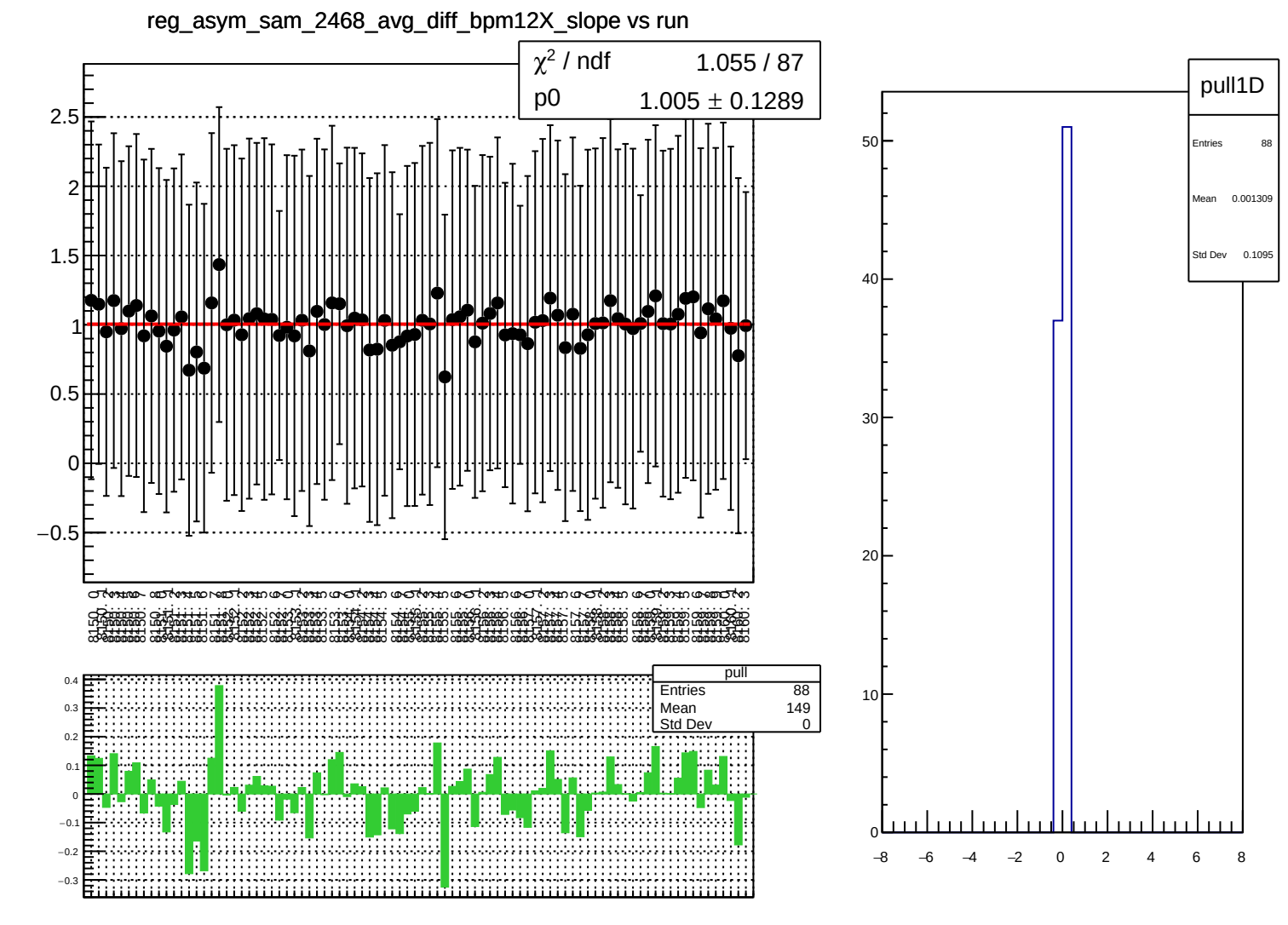

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 0.8307 / 87
p0 −4.967 ± 1.372
pull
Entries 88
Mean −2774
Std Dev 0
pull1D
Entries 88
Mean −0.0002681
Std Dev 0.09716

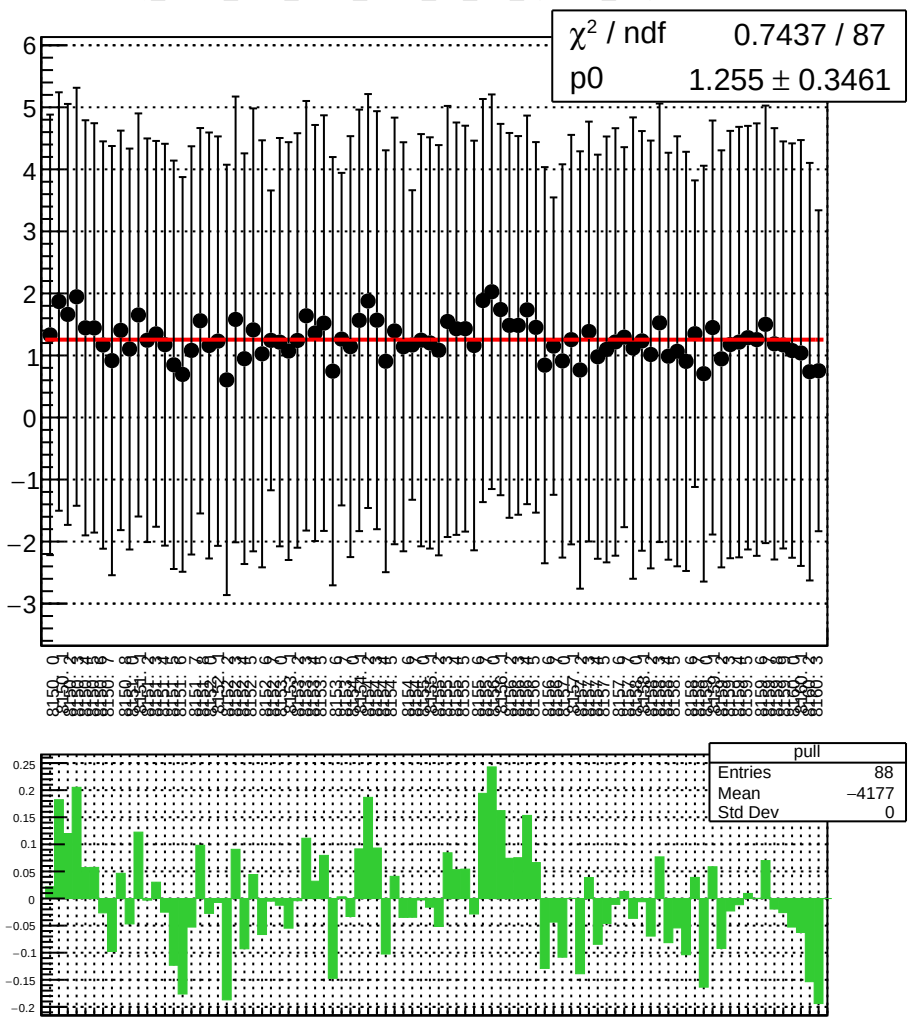

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.187 / 87
p0 −1.924 ± 2.569
pull
Entries 88
Mean −133.9
Std Dev 0
pull1D
Entries 88
Mean −0.001364
Std Dev 0.1161

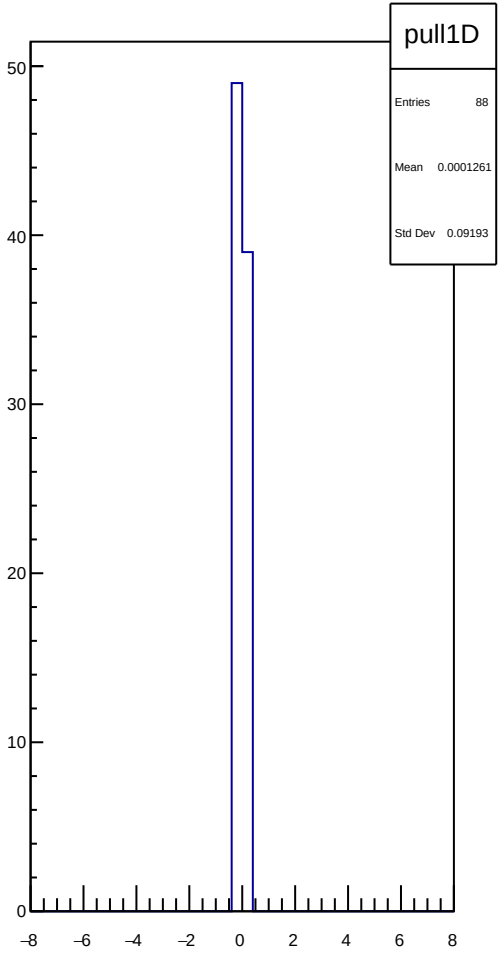

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.06 / 87
p0 −88.95 ± 1.39
pull
Entries 88
Mean −726.5
Std Dev 0

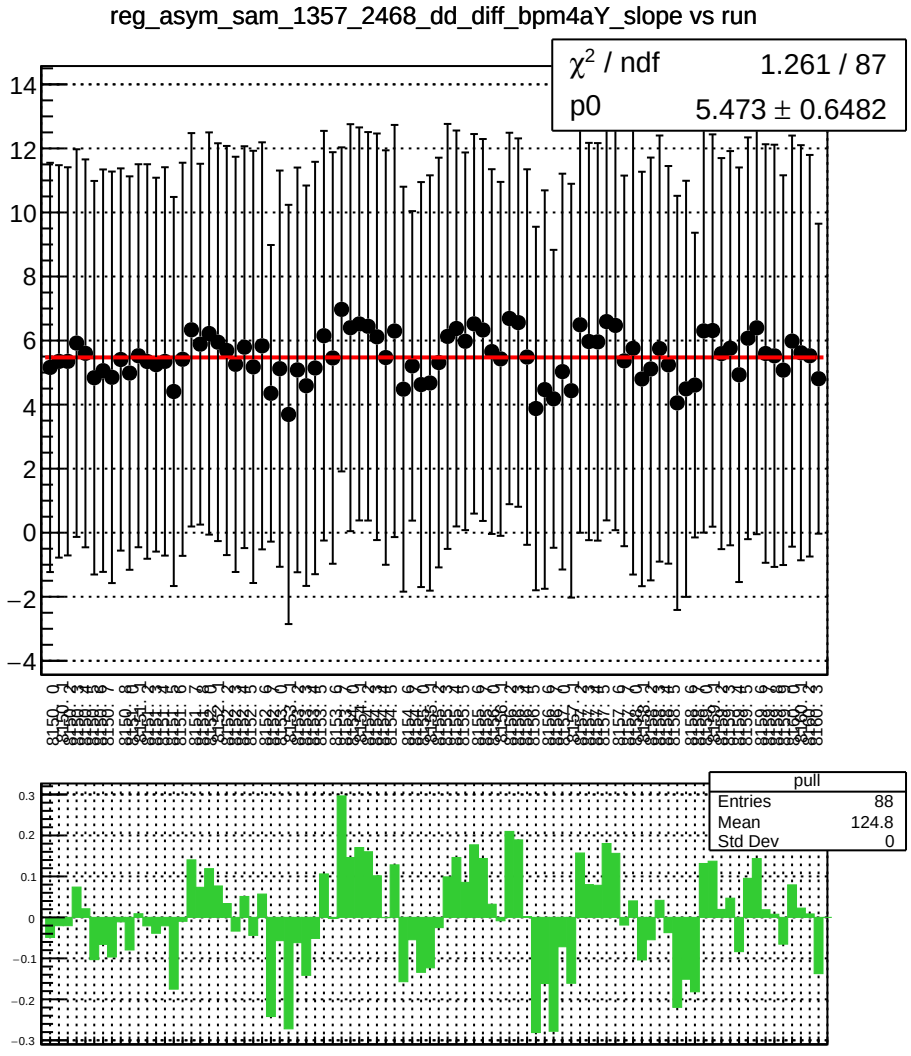

pull1D
Entries 88
Mean 0.001076
Std Dev 0.1098

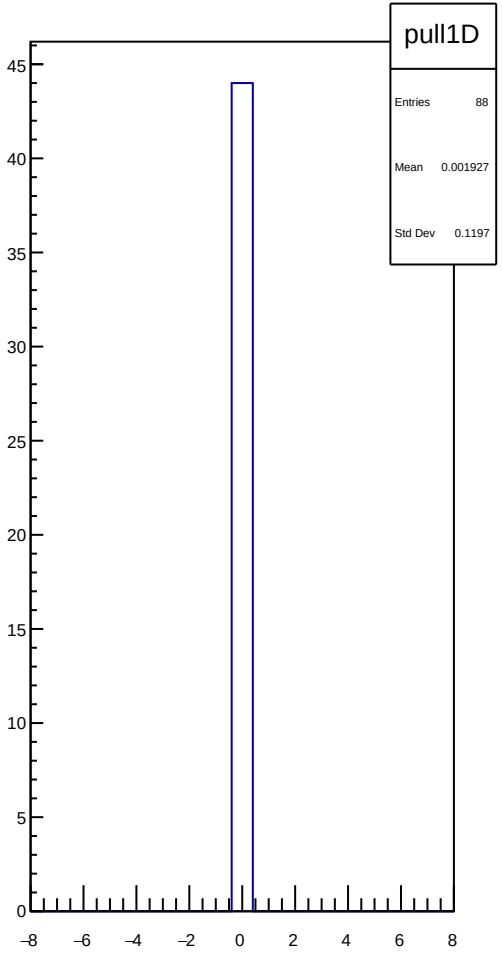

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.127 / 87
p0 41.98 ± 2.752
pull
Entries 88
Mean −190.4
Std Dev 0
pull1D
Entries 88
Mean 0.00121
Std Dev 0.1132

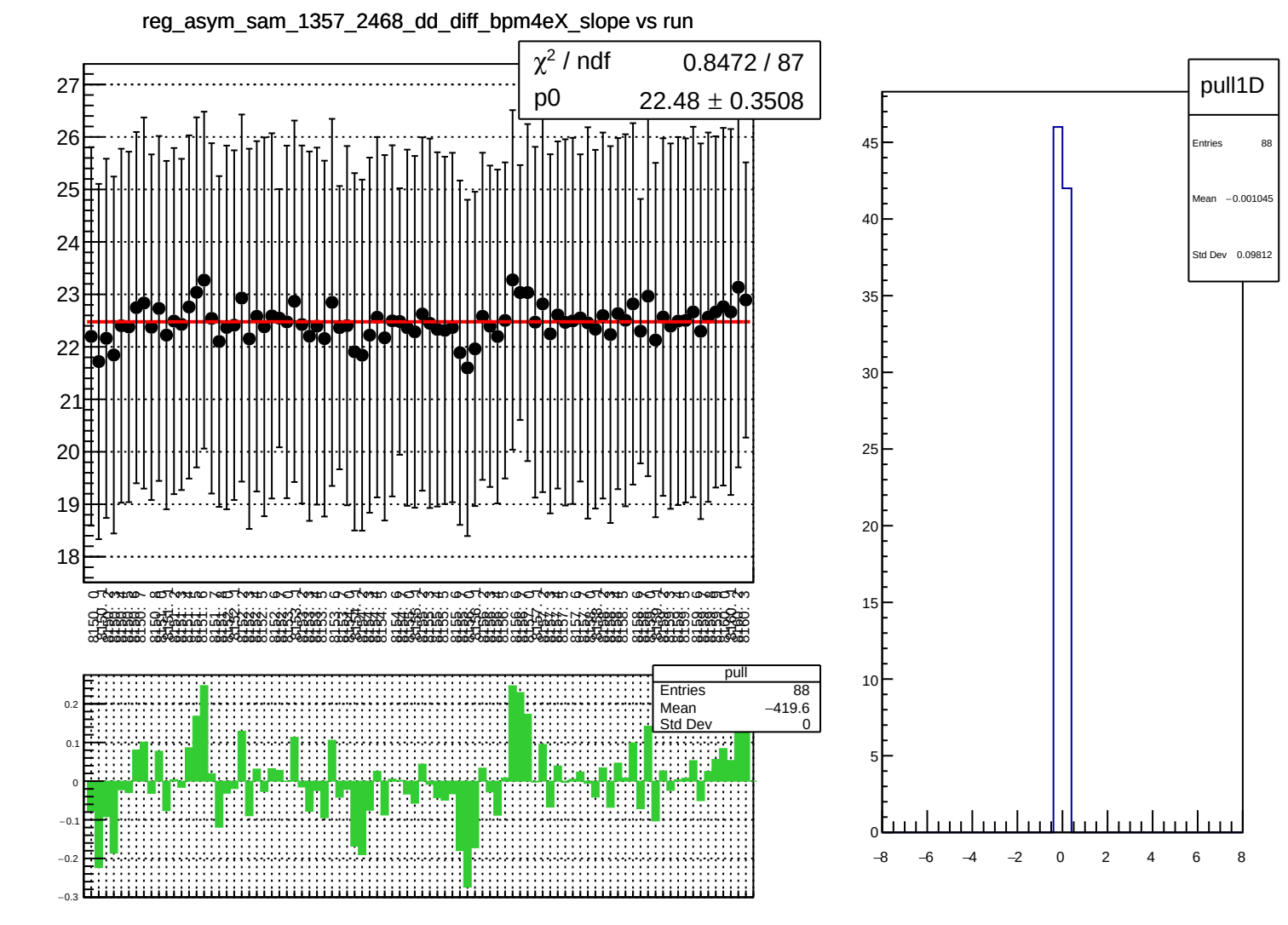

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1.055 / 87
p0 1.005 ± 0.1289
pull
Entries 88
Mean 149
Std Dev 0
pull1D
Entries 88
Mean 0.001309
Std Dev 0.1095

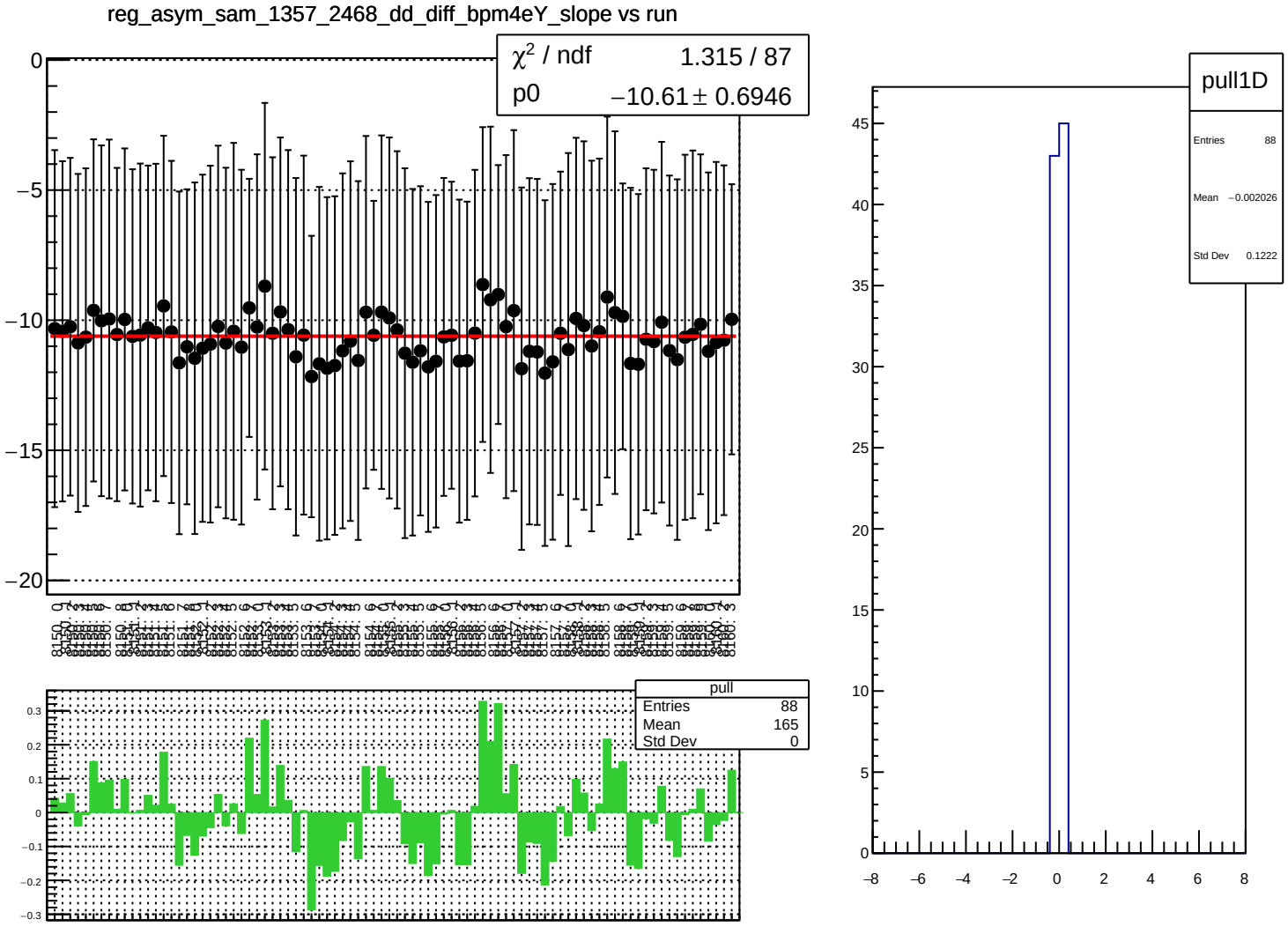

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 0.7437 / 87
p0 1.255 ± 0.3461
pull
Entries 88
Mean −4177
Std Dev 0

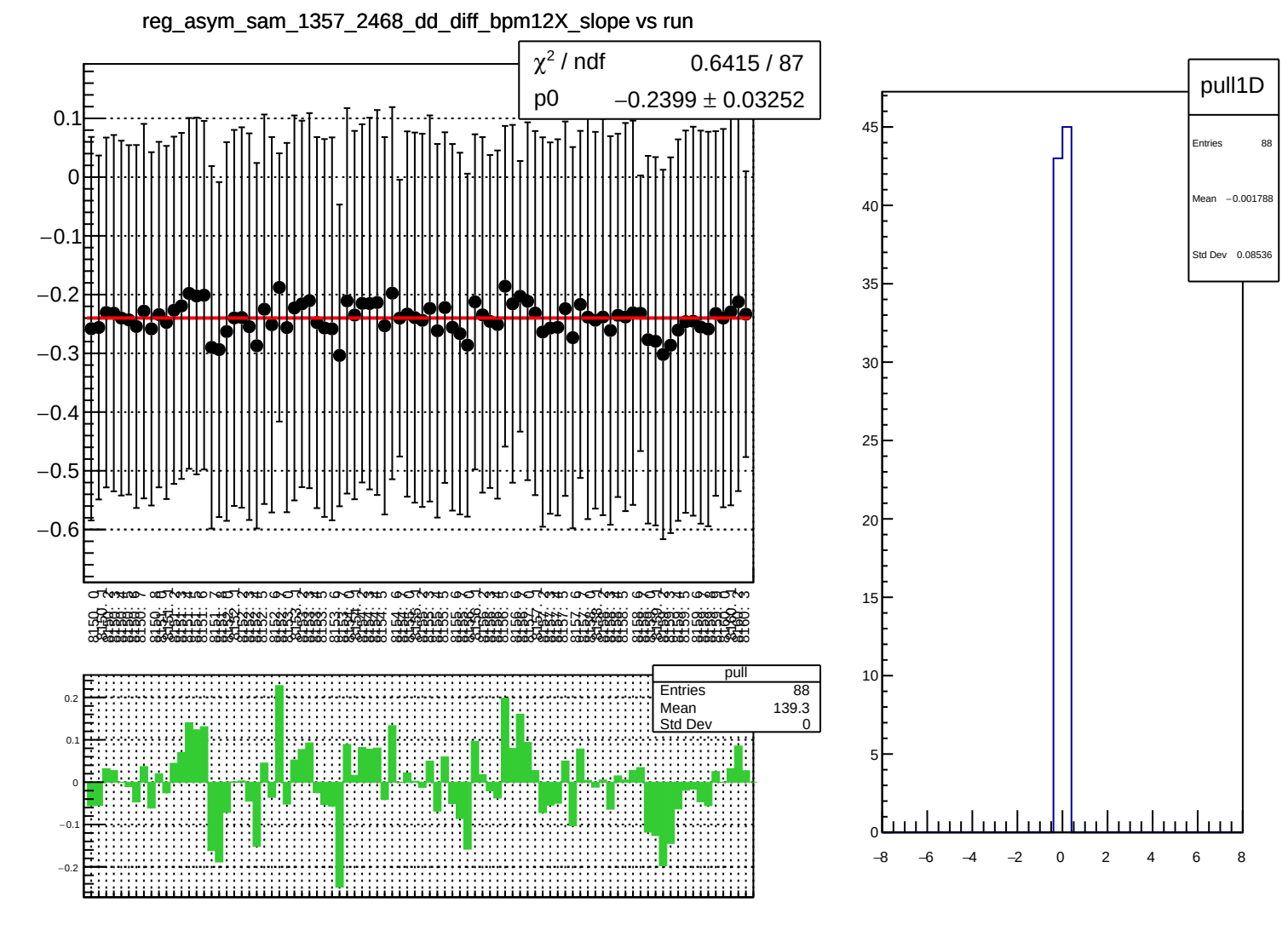

pull1D
Entries 88
Mean 0.0001261
Std Dev 0.09193

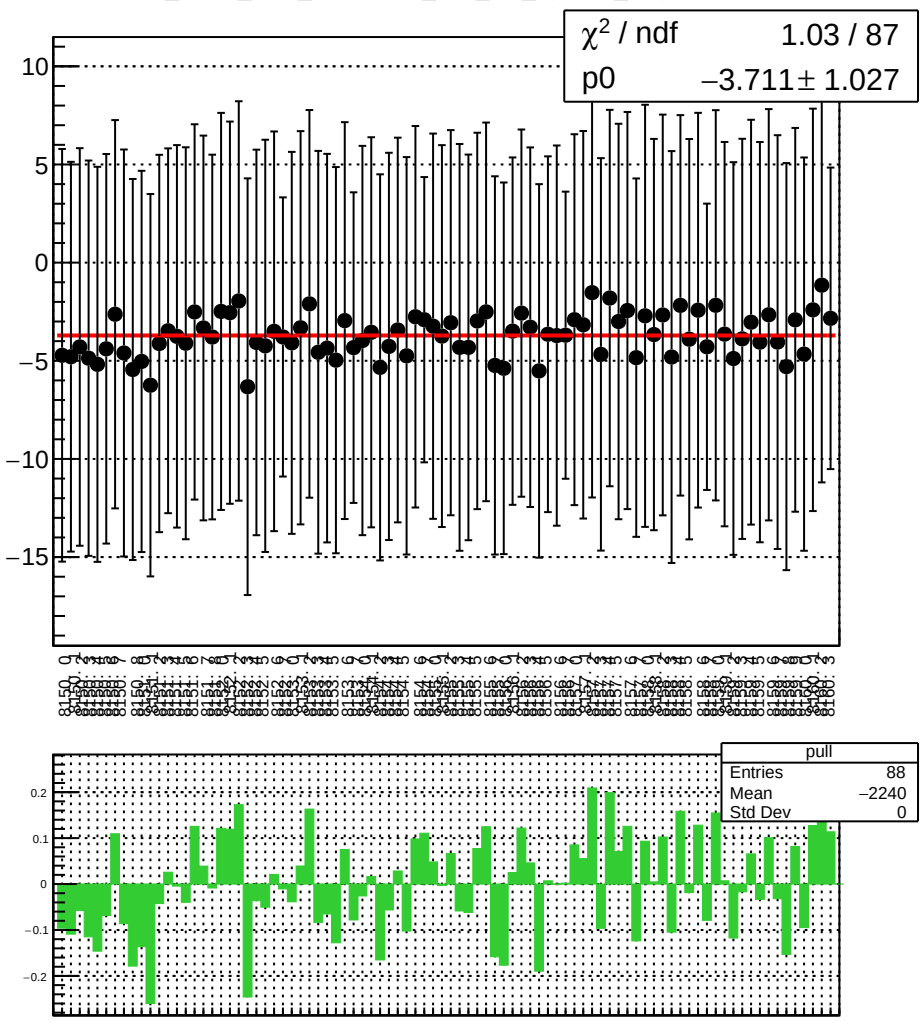

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.261 / 87
p0 5.473 ± 0.6482
pull
Entries 88
Mean 124.8
Std Dev 0

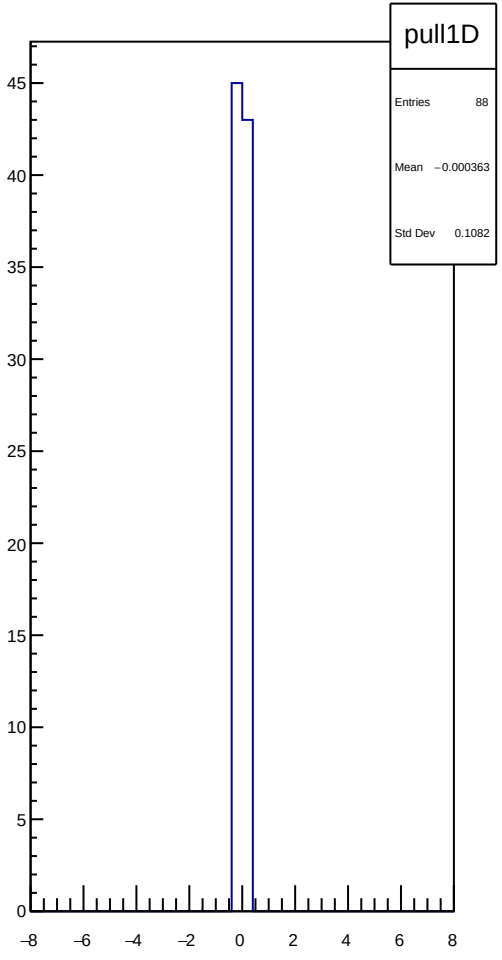

pull1D
Entries 88
Mean 0.001927
Std Dev 0.1197

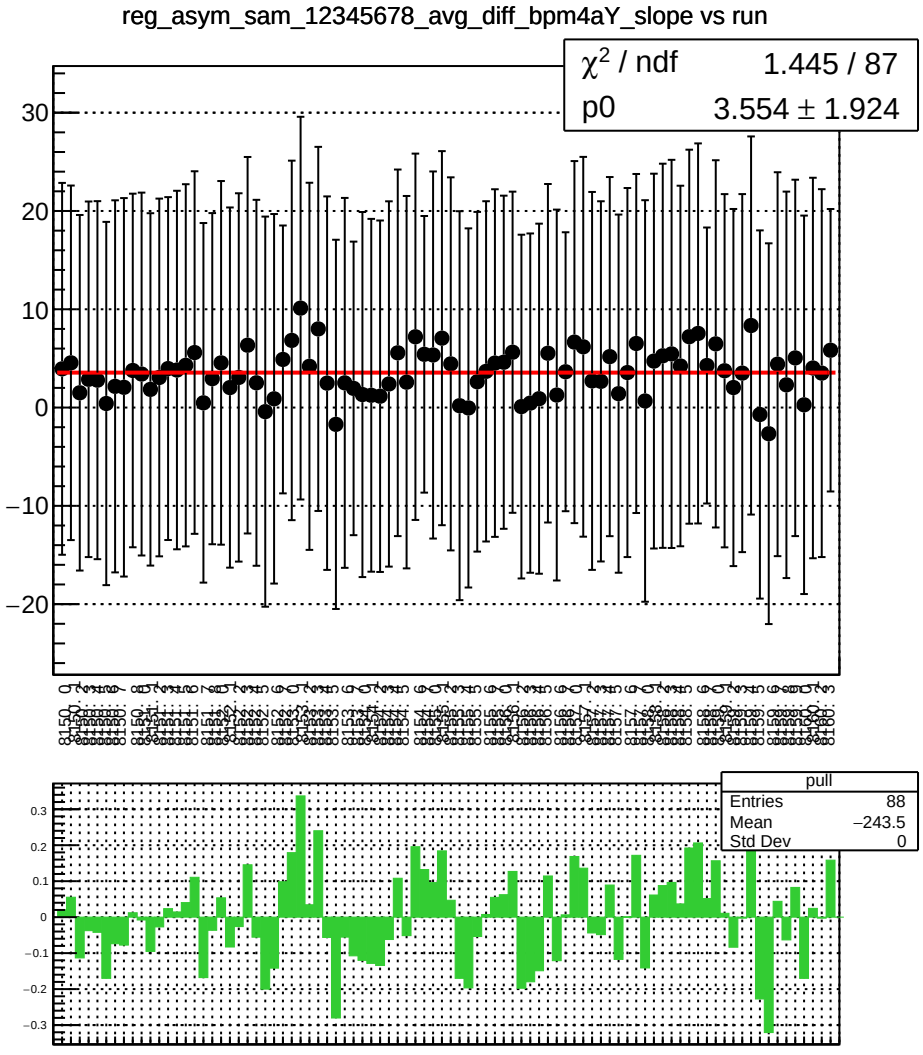

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.8472 / 87
p0 22.48 ± 0.3508
pull
Entries 88
Mean −419.6
Std Dev 0
pull1D
Entries 88
Mean −0.001045
Std Dev 0.09812

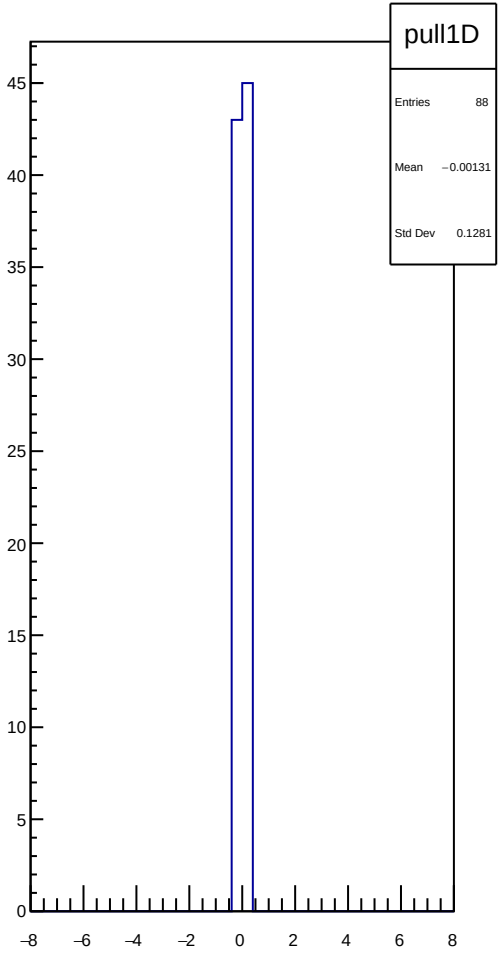

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.315 / 87
p0 −10.61 ± 0.6946
pull
Entries 88
Mean 165
Std Dev 0
pull1D
Entries 88
Mean −0.002026
Std Dev 0.1222

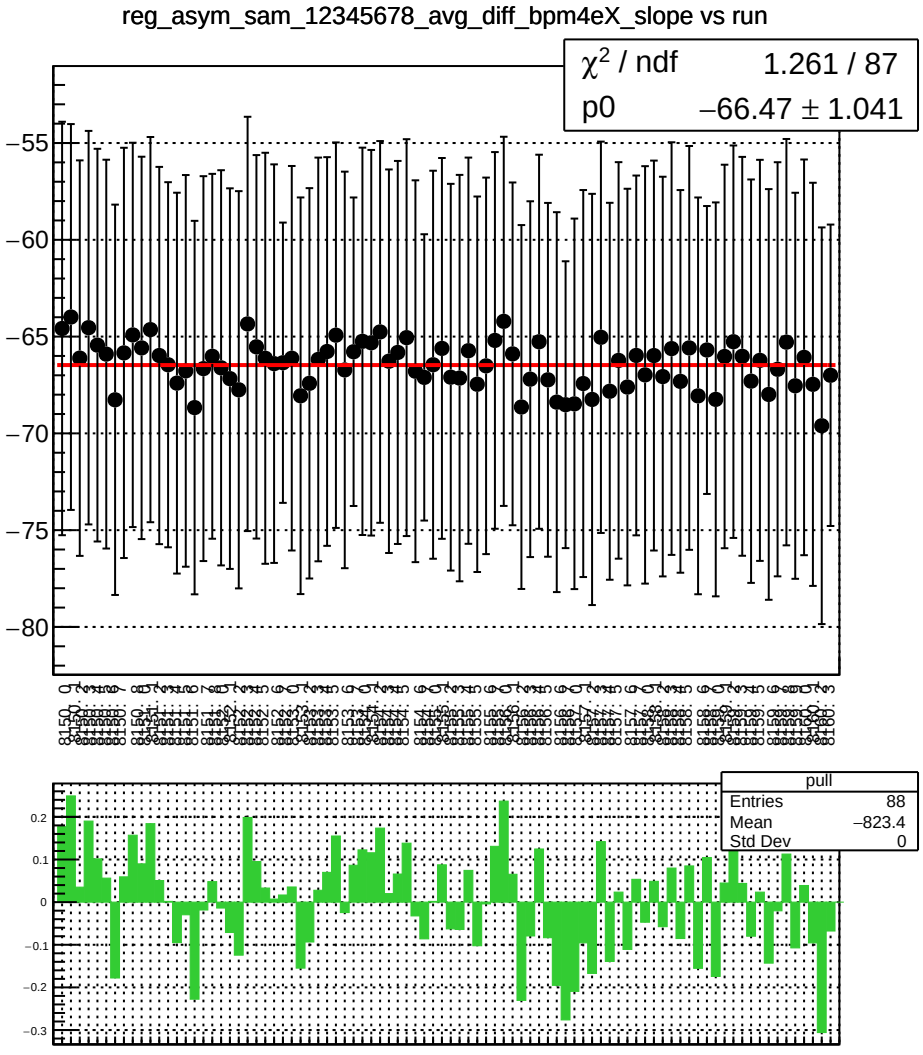

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6415 / 87
p0 −0.2399 ± 0.03252
pull
Entries 88
Mean 139.3
Std Dev 0
pull1D
Entries 88
Mean −0.001788
Std Dev 0.08536

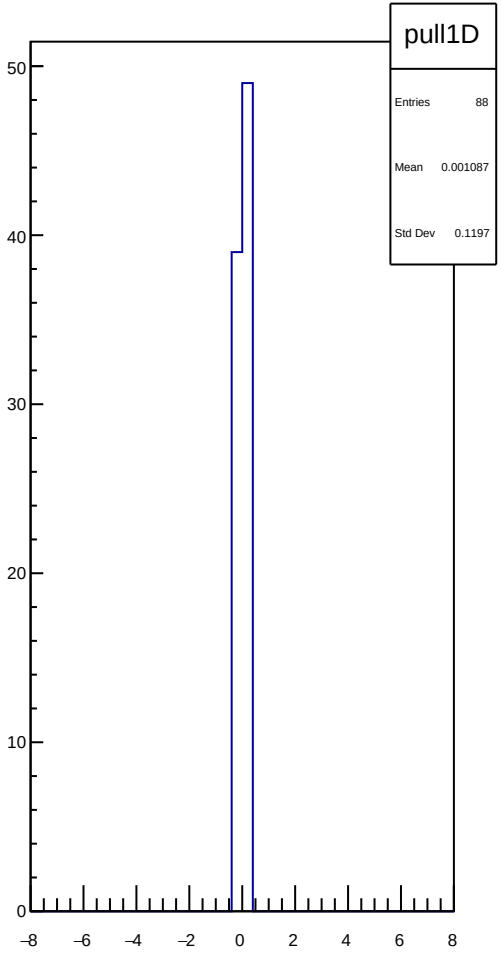

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 1.03 / 87
p0 −3.711± 1.027
pull
Entries 88
Mean −2240
Std Dev 0

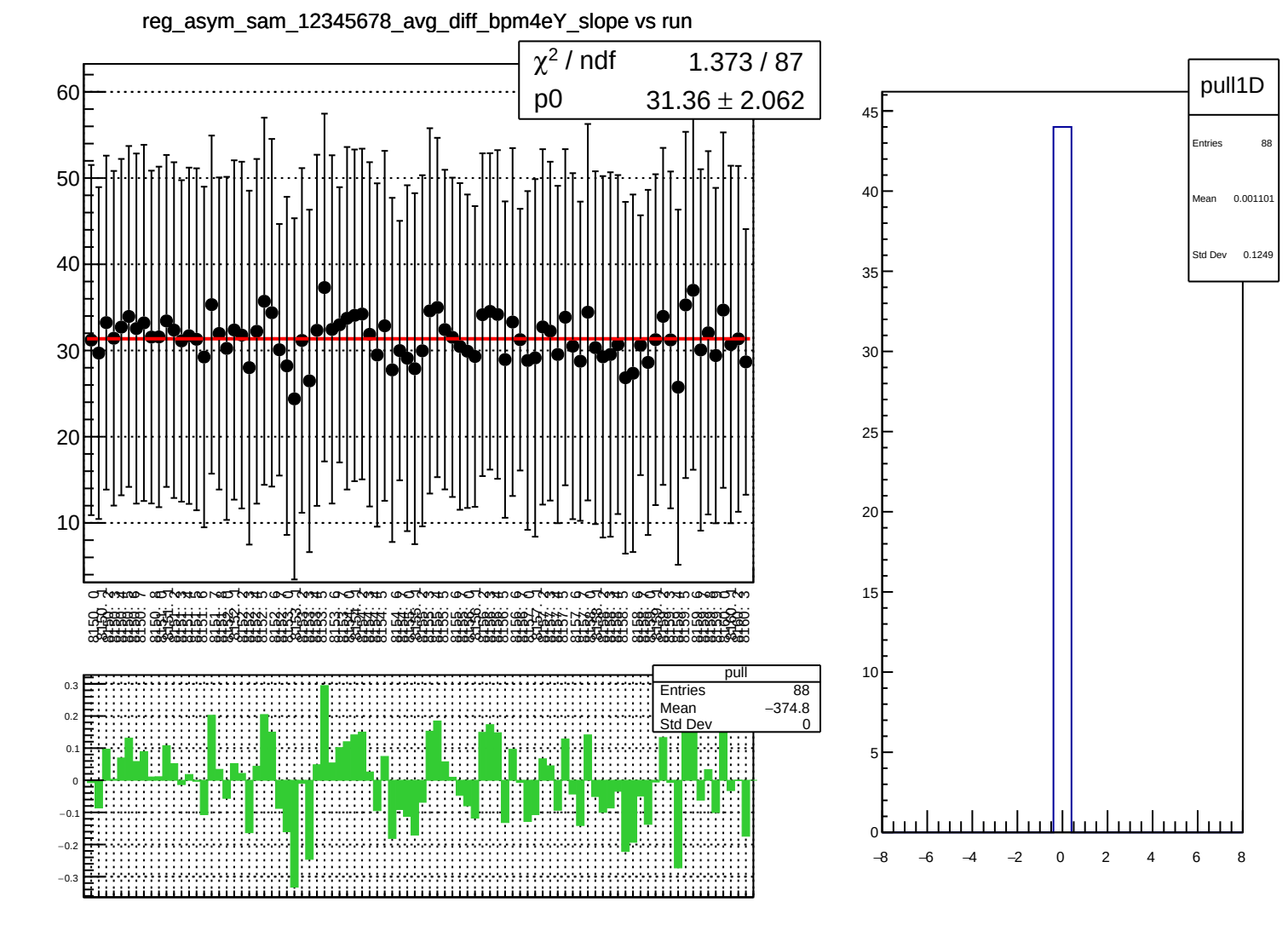

pull1D
Entries 88
Mean −0.000363
Std Dev 0.1082

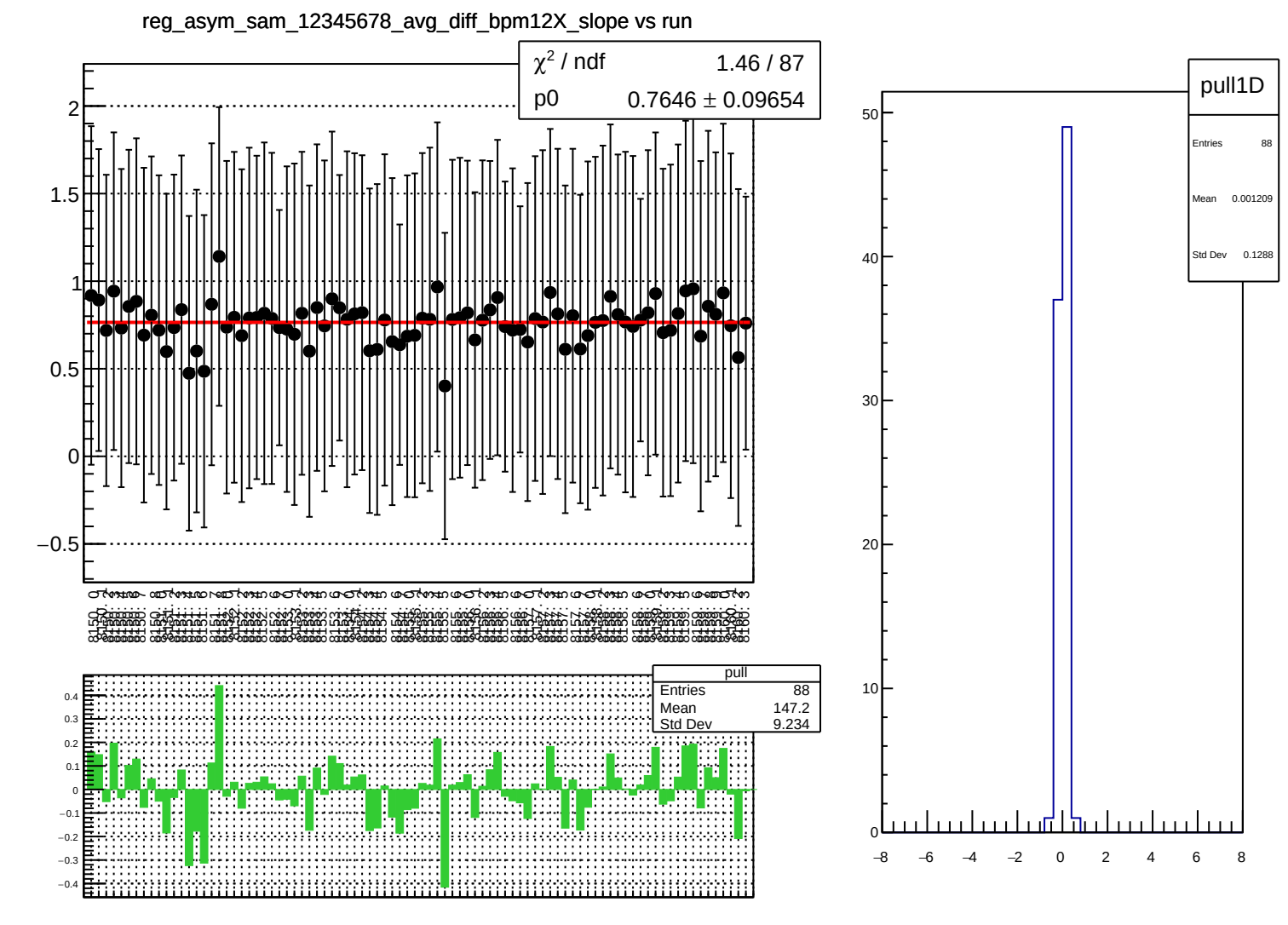

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.445 / 87
p0 3.554 ± 1.924
pull
Entries 88
Mean −243.5
Std Dev 0

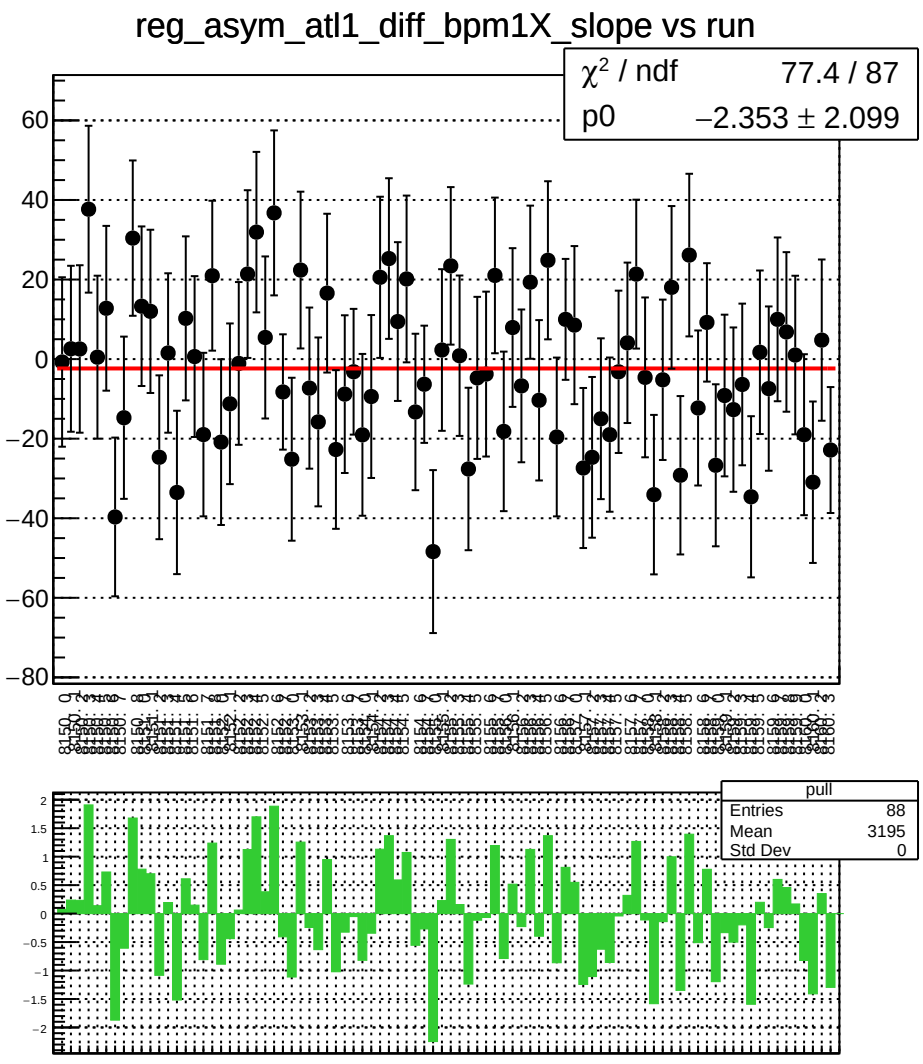

pull1D
Entries 88
Mean −0.00131
Std Dev 0.1281

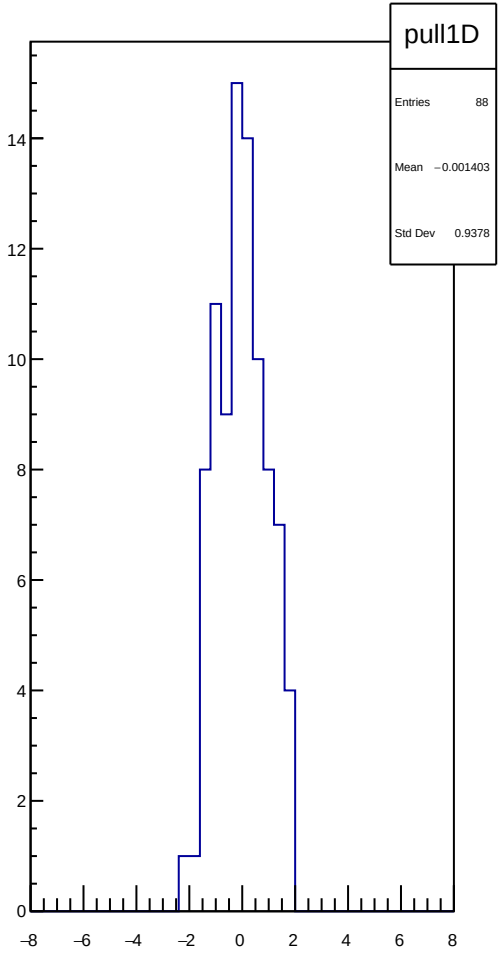

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.261 / 87
p0 −66.47 ± 1.041
−55
−60
−65
−70
−75
−80
pull
Entries 88
Mean −823.4
Std Dev 0
0.2
0.1
0
−0.1
−0.2
−0.3

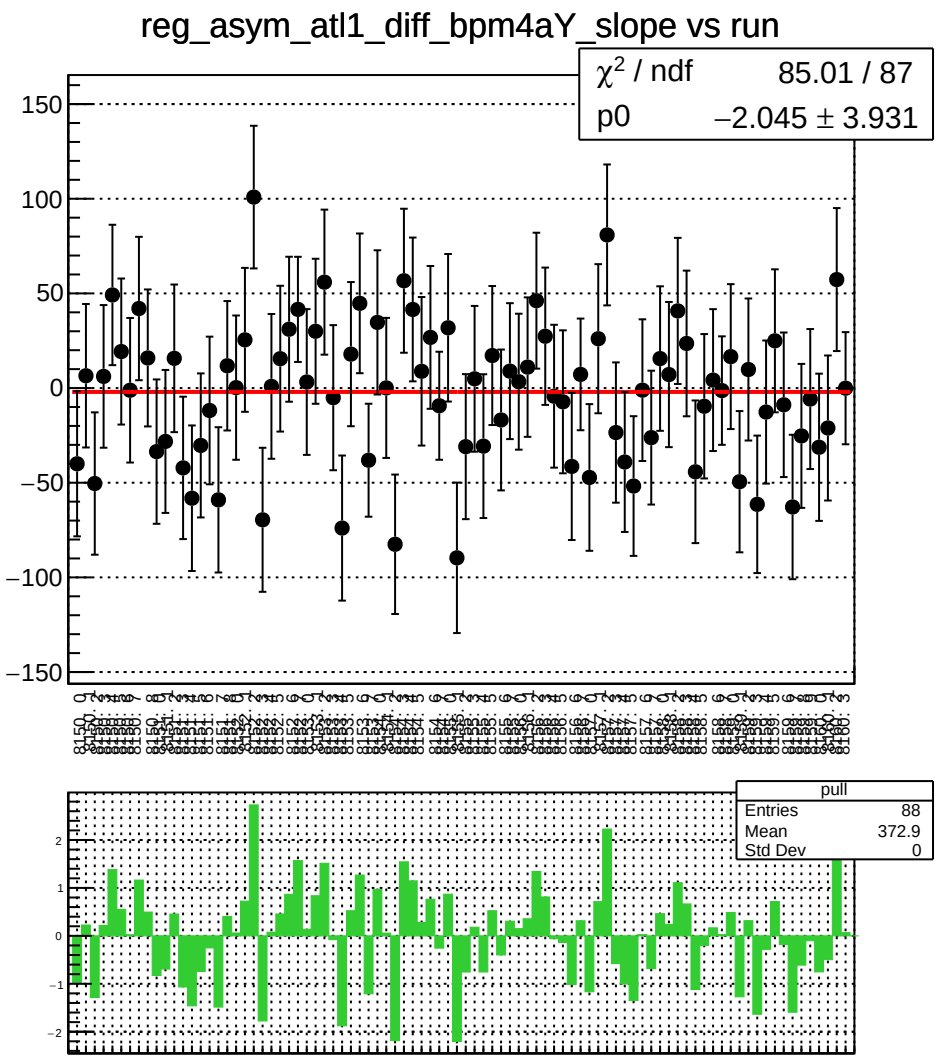

pull1D
Entries 88
Mean 0.001087
Std Dev 0.1197
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

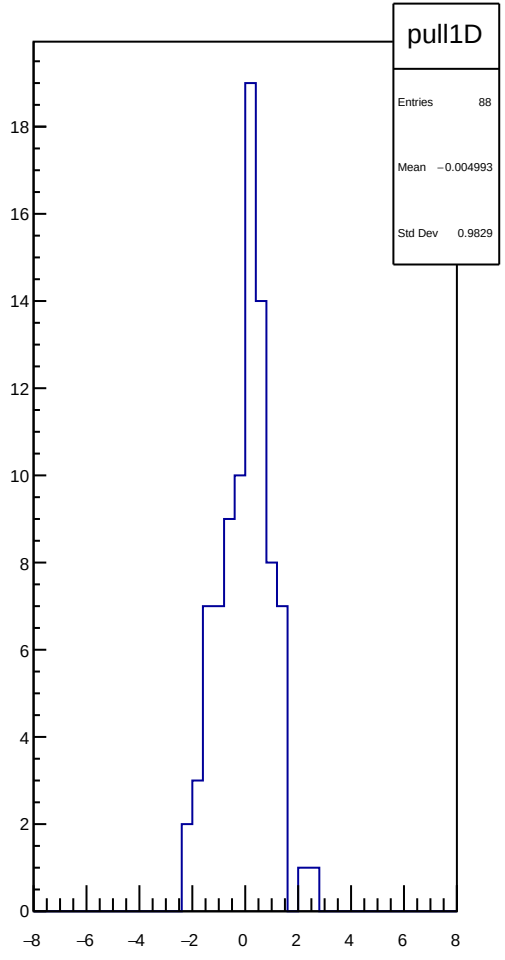

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.373 / 87
p0 31.36 ± 2.062
pull
Entries 88
Mean −374.8
Std Dev 0
pull1D
Entries 88
Mean 0.001101
Std Dev 0.1249

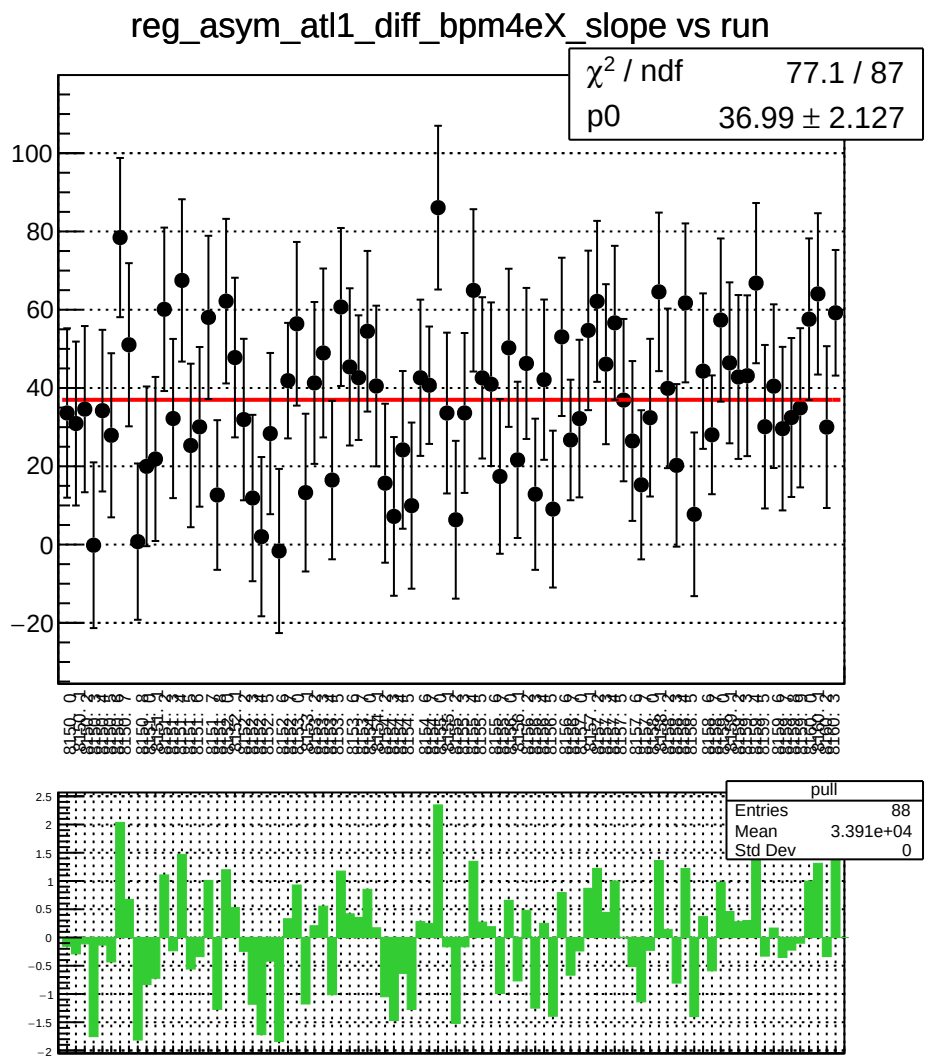

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 1.46 / 87
p0 0.7646 ± 0.09654
pull
Entries 88
Mean 147.2
Std Dev 9.234
pull1D
Entries 88
Mean 0.001209
Std Dev 0.1288

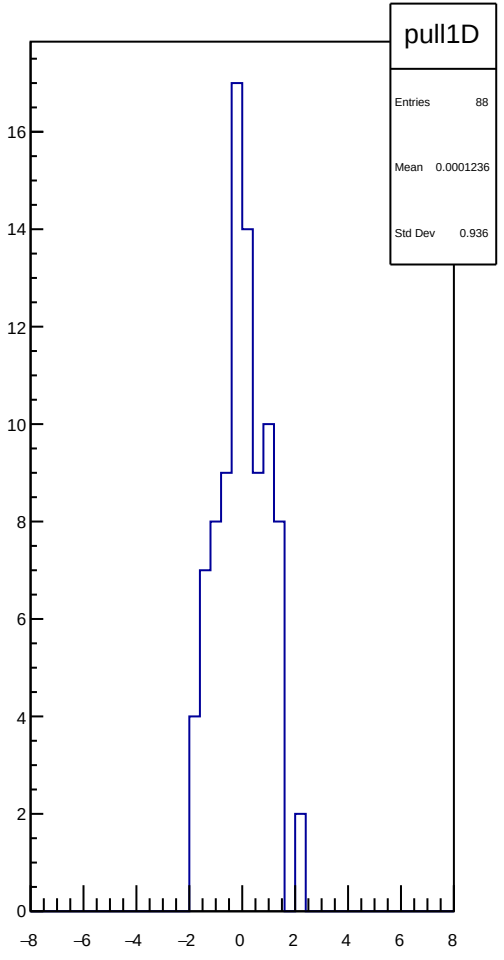

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 77.4 / 87
p0 −2.353 ± 2.099
pull
Entries 88
Mean 3195
Std Dev 0

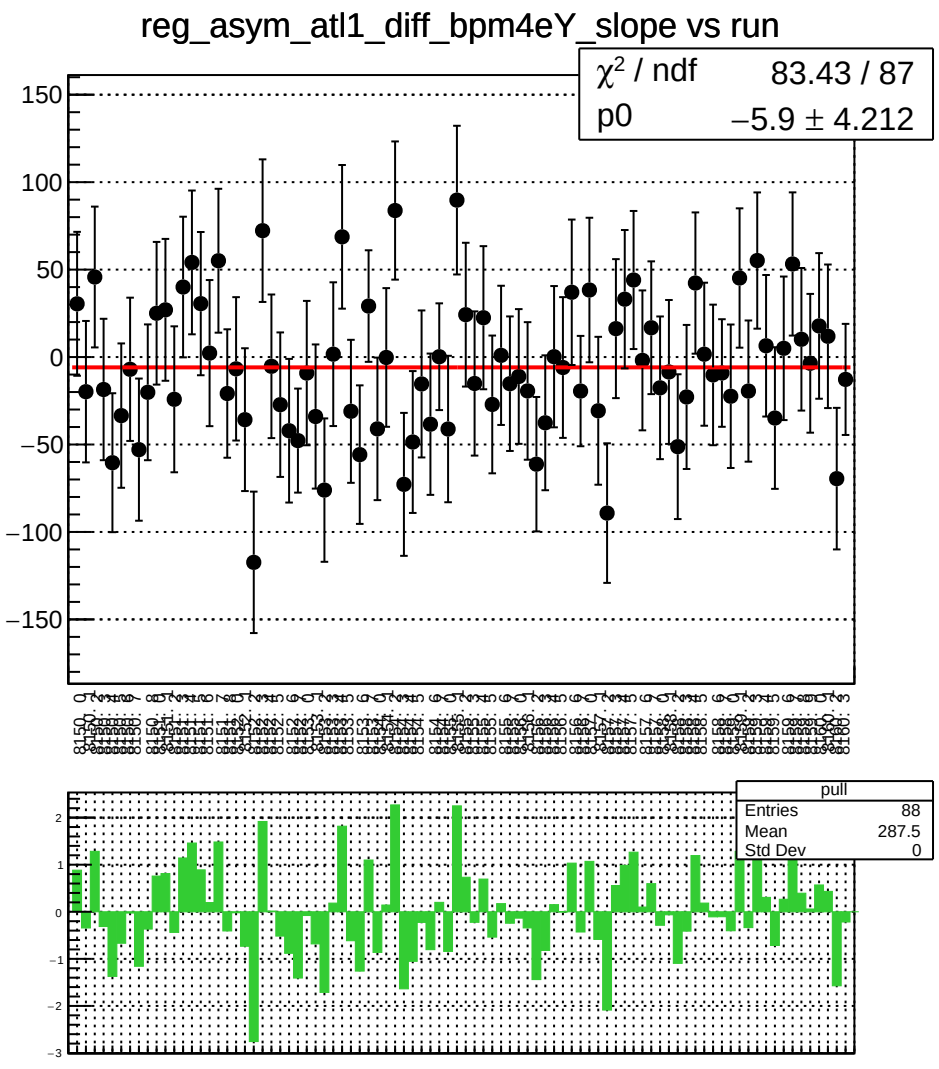

pull1D
Entries 88
Mean −0.001403
Std Dev 0.9378

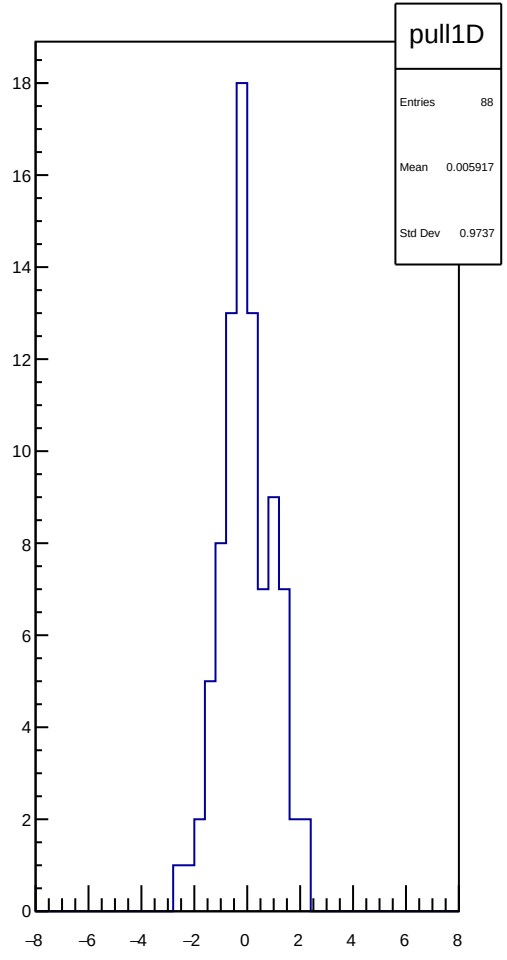

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 85.01 / 87
p0 −2.045 ± 3.931
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 372.9
Std Dev 0
2
1
0
−1
−2

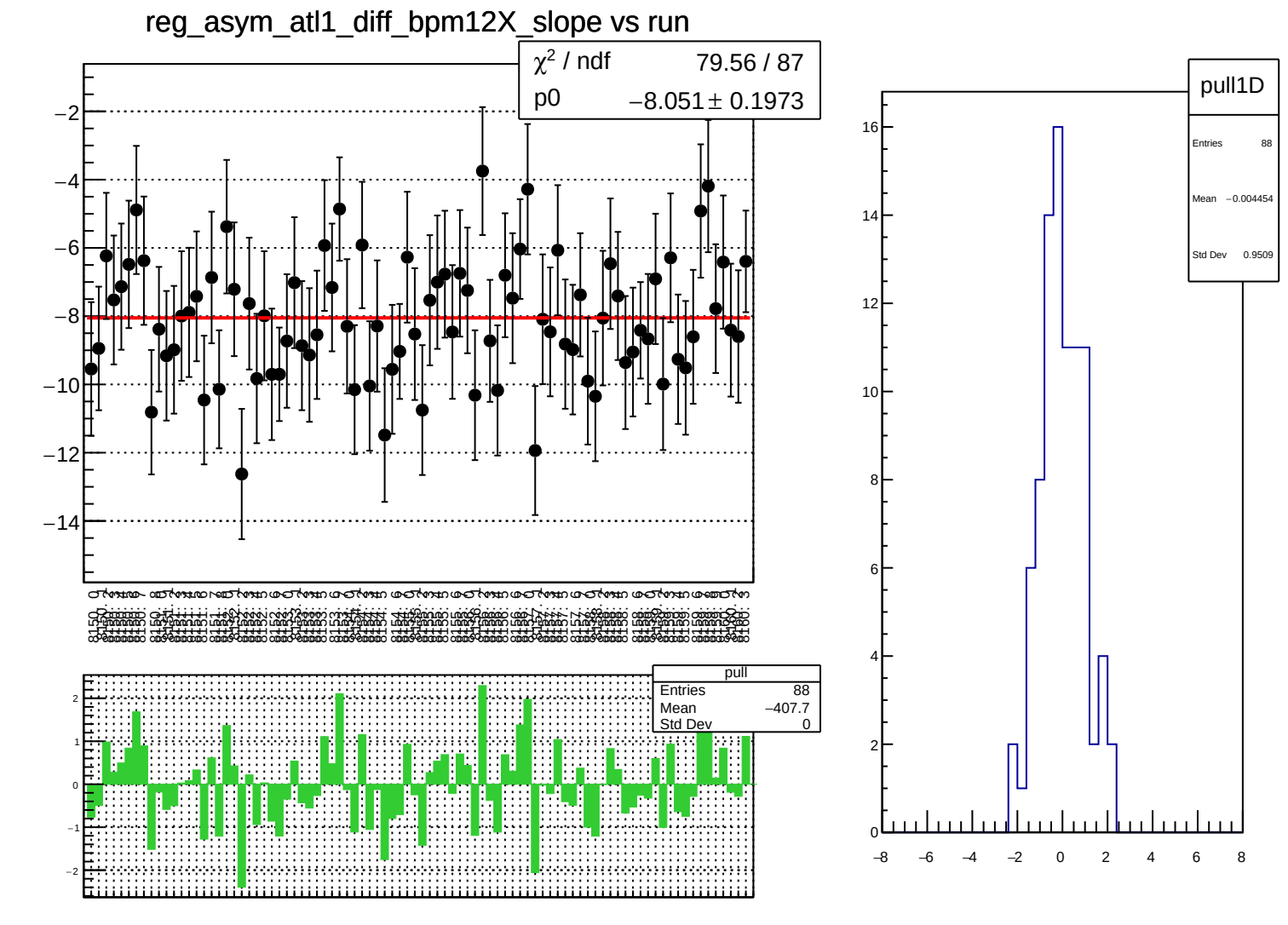

pull1D
Entries 88
Mean −0.004993
Std Dev 0.9829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

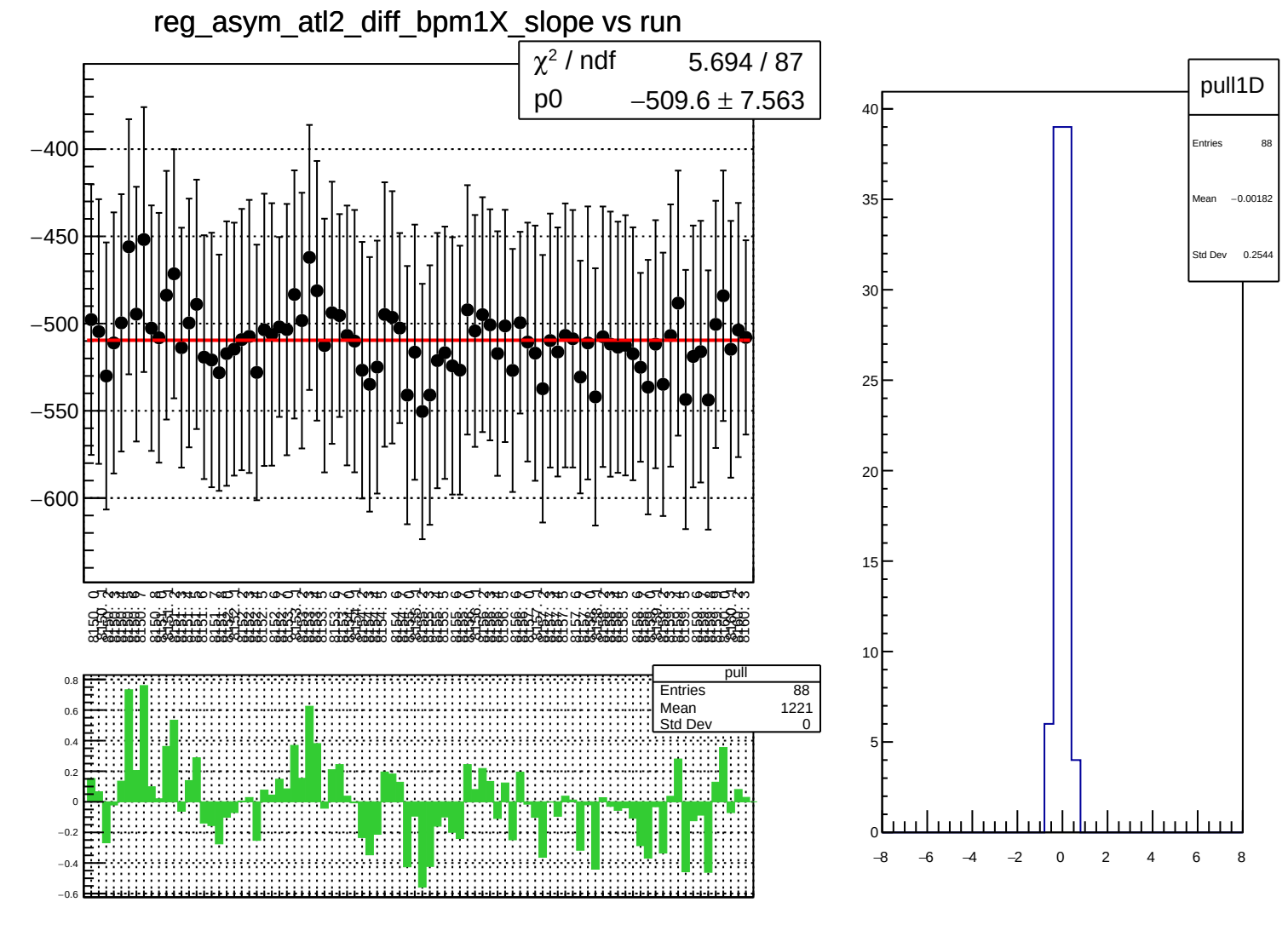

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 77.1 / 87
p0 36.99 ± 2.127
pull
Entries 88
Mean 3.391e+04
Std Dev 0

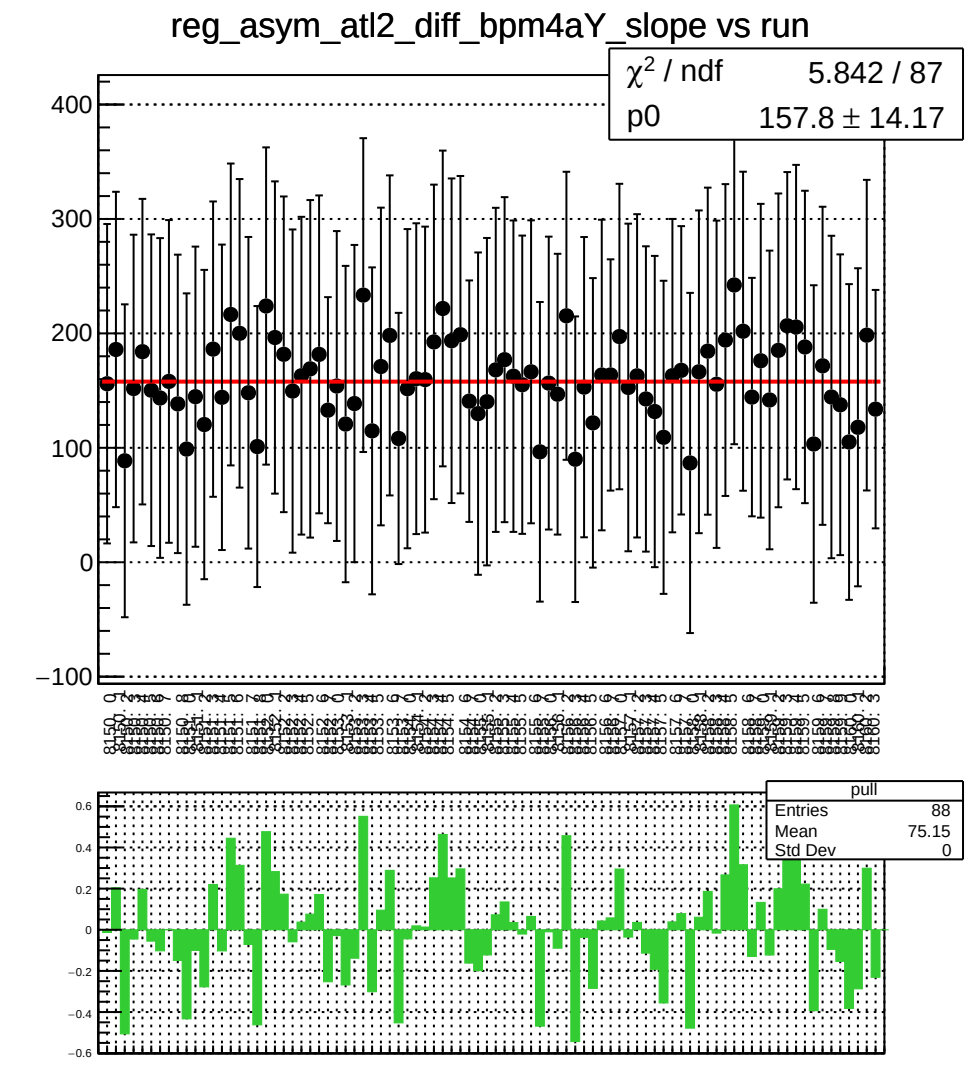

pull1D
Entries 88
Mean 0.0001236
Std Dev 0.936

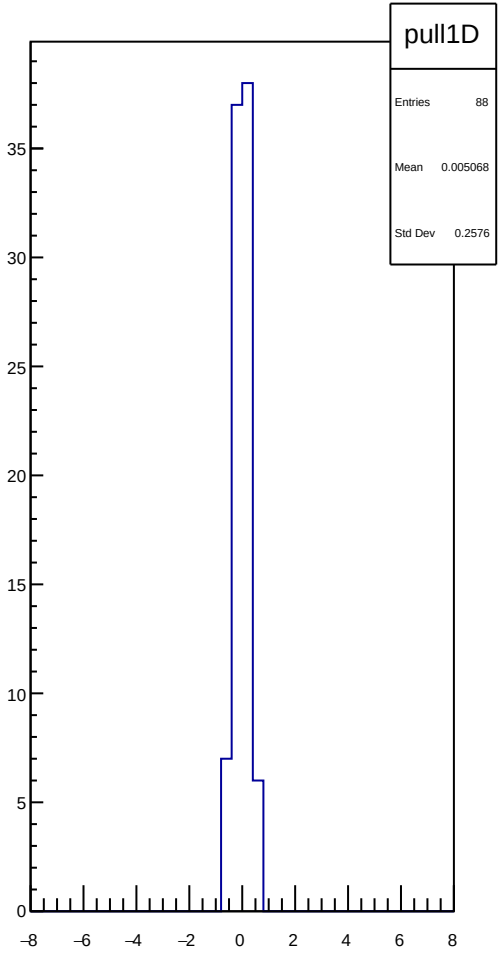

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 83.43 / 87
p0 −5.9 ± 4.212
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 287.5
Std Dev 0
2
1
0
−1
−2
−3

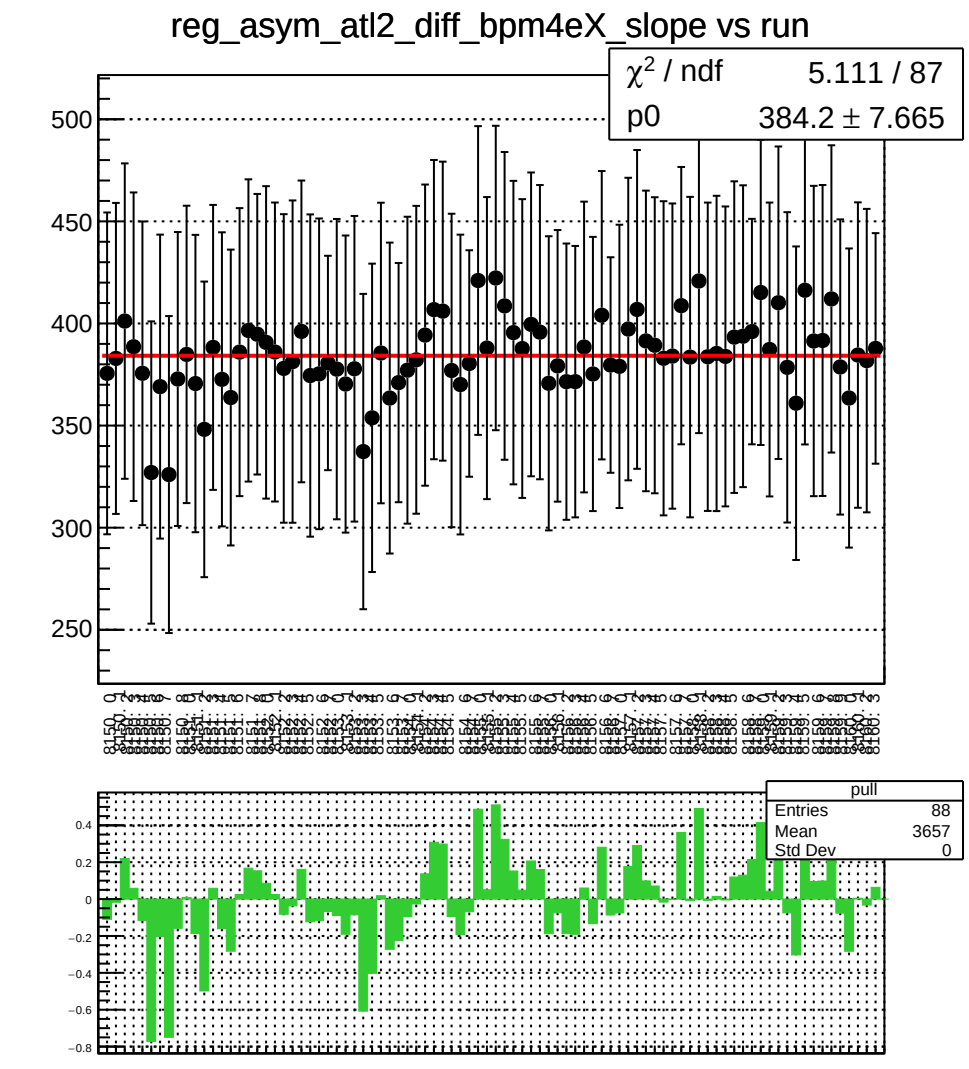

pull1D
Entries 88
Mean 0.005917
Std Dev 0.9737
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

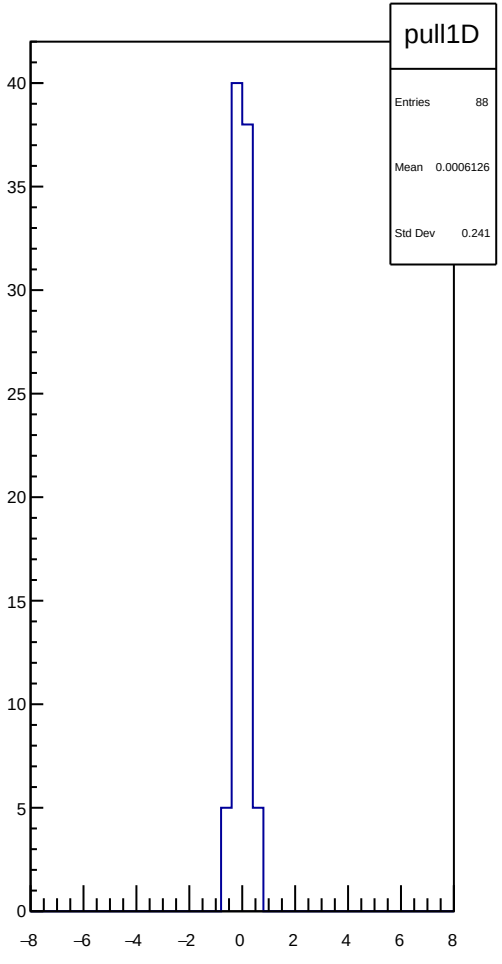

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 79.56 / 87
p0 −8.051 ± 0.1973
pull
Entries 88
Mean −407.7
Std Dev 0
pull1D
Entries 88
Mean −0.004454
Std Dev 0.9509

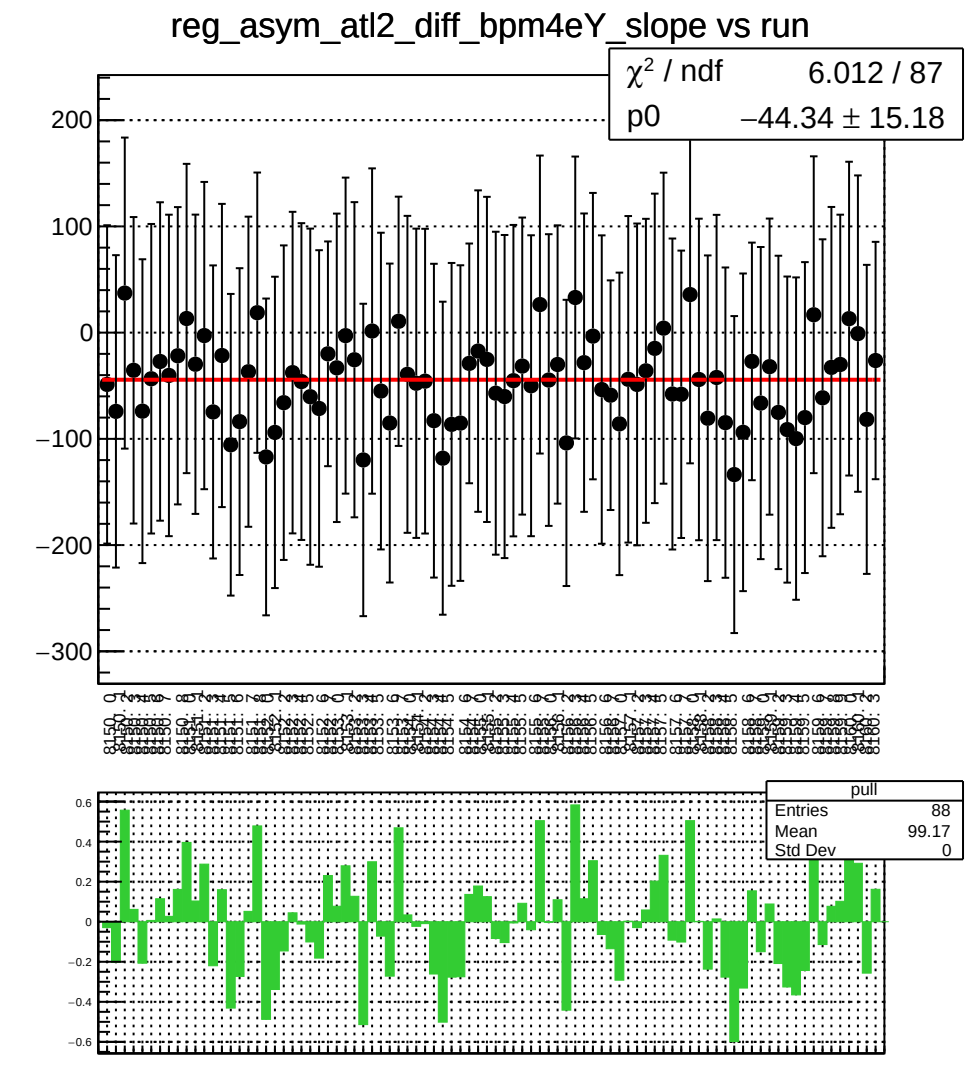

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 5.694 / 87
p0 −509.6 ± 7.563
−400
−450
−500
−550
−600
pull
Entries 88
Mean 1221
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.00182
Std Dev 0.2544
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

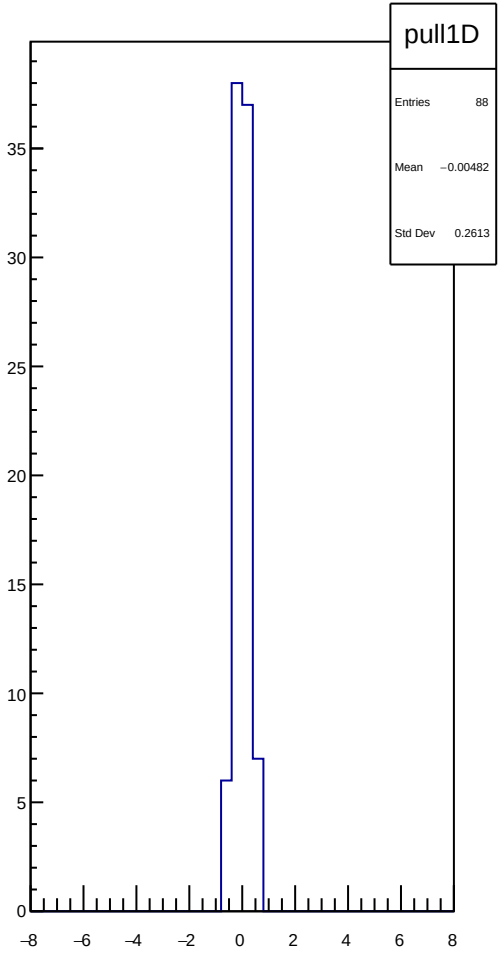

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.842 / 87
p0 157.8 ± 14.17
pull
Entries 88
Mean 75.15
Std Dev 0

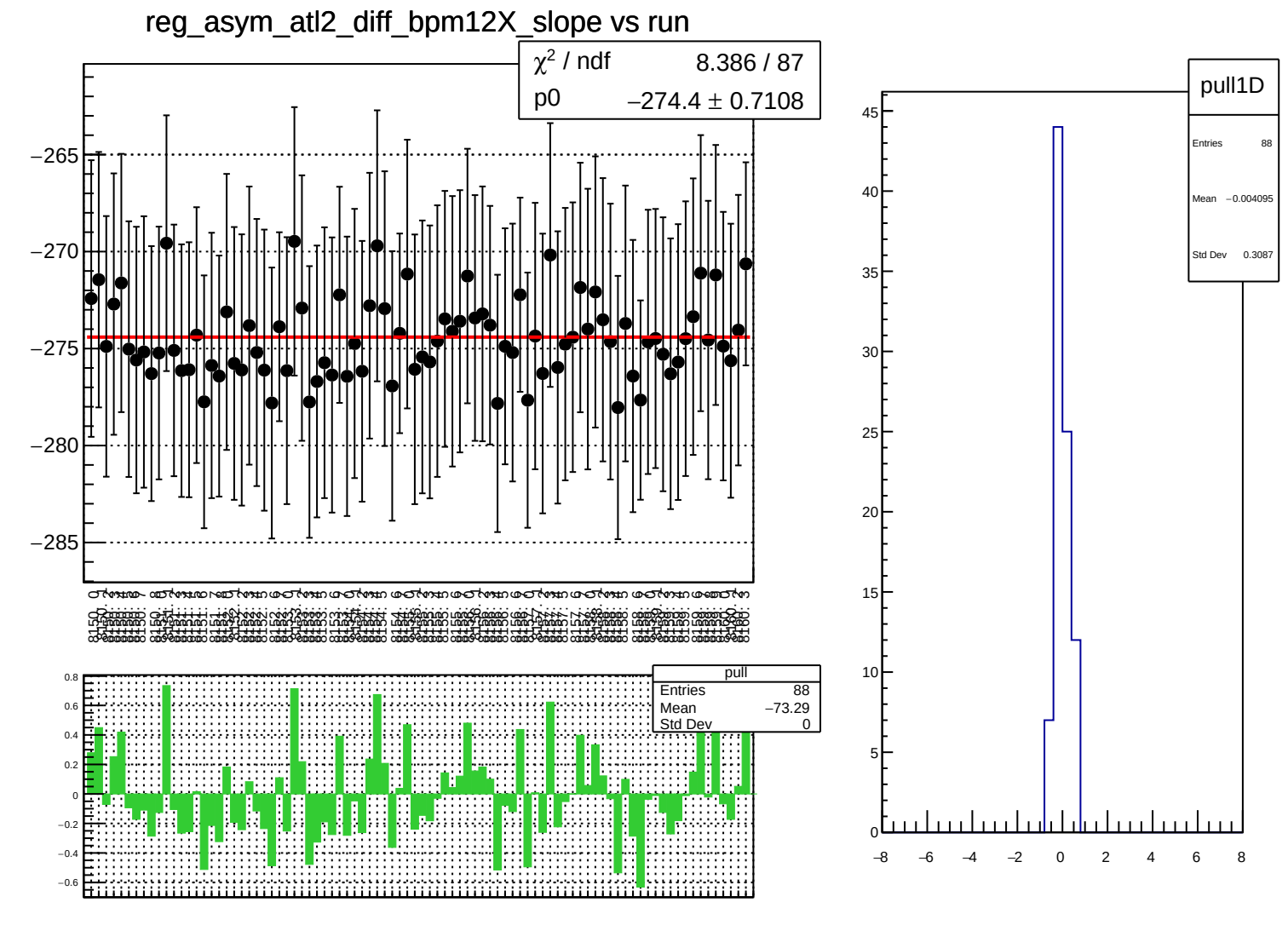

pull1D
Entries 88
Mean 0.005068
Std Dev 0.2576

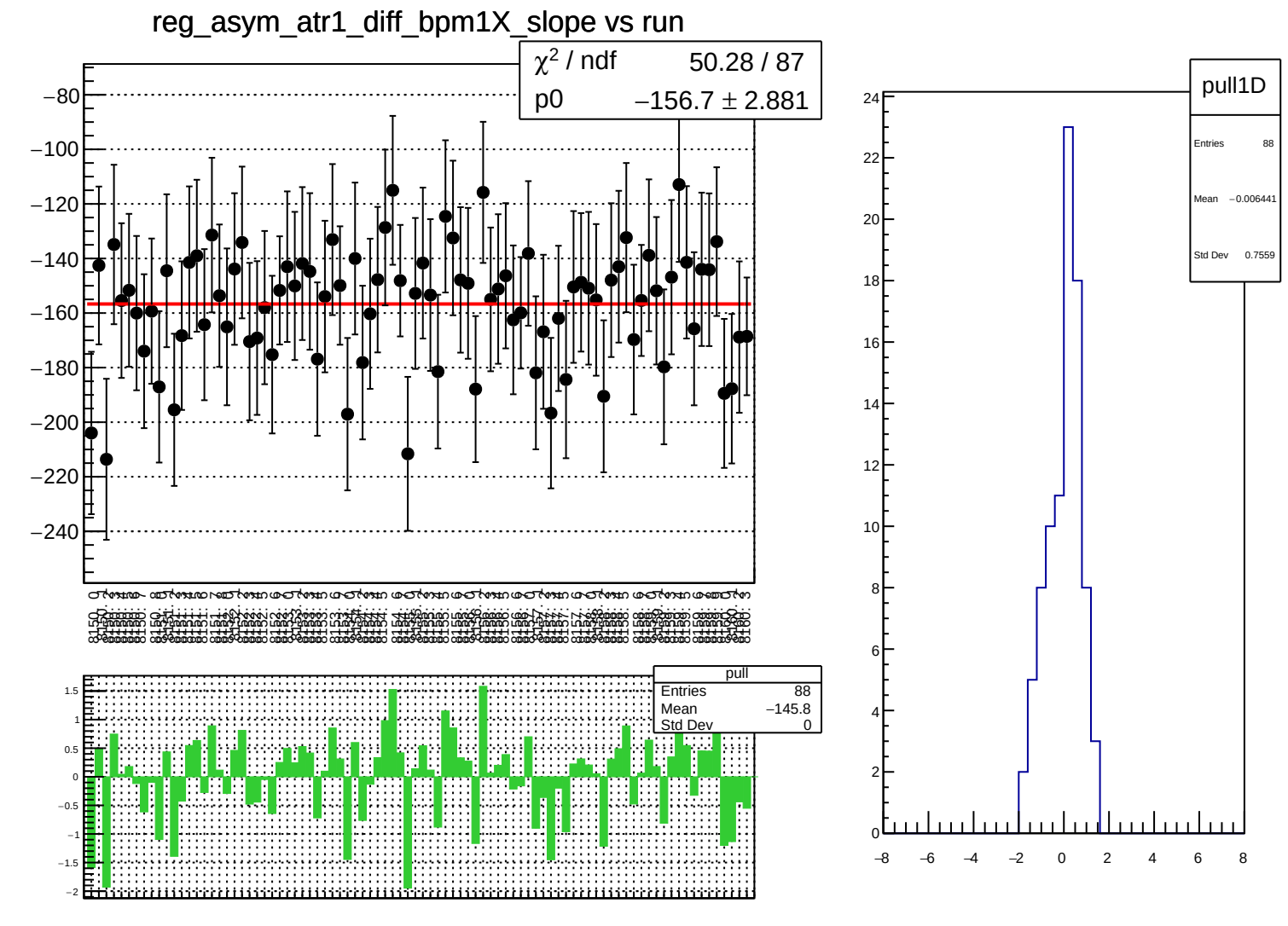

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 5.111 / 87
p0 384.2 ± 7.665
pull
Entries 88
Mean 3657
Std Dev 0

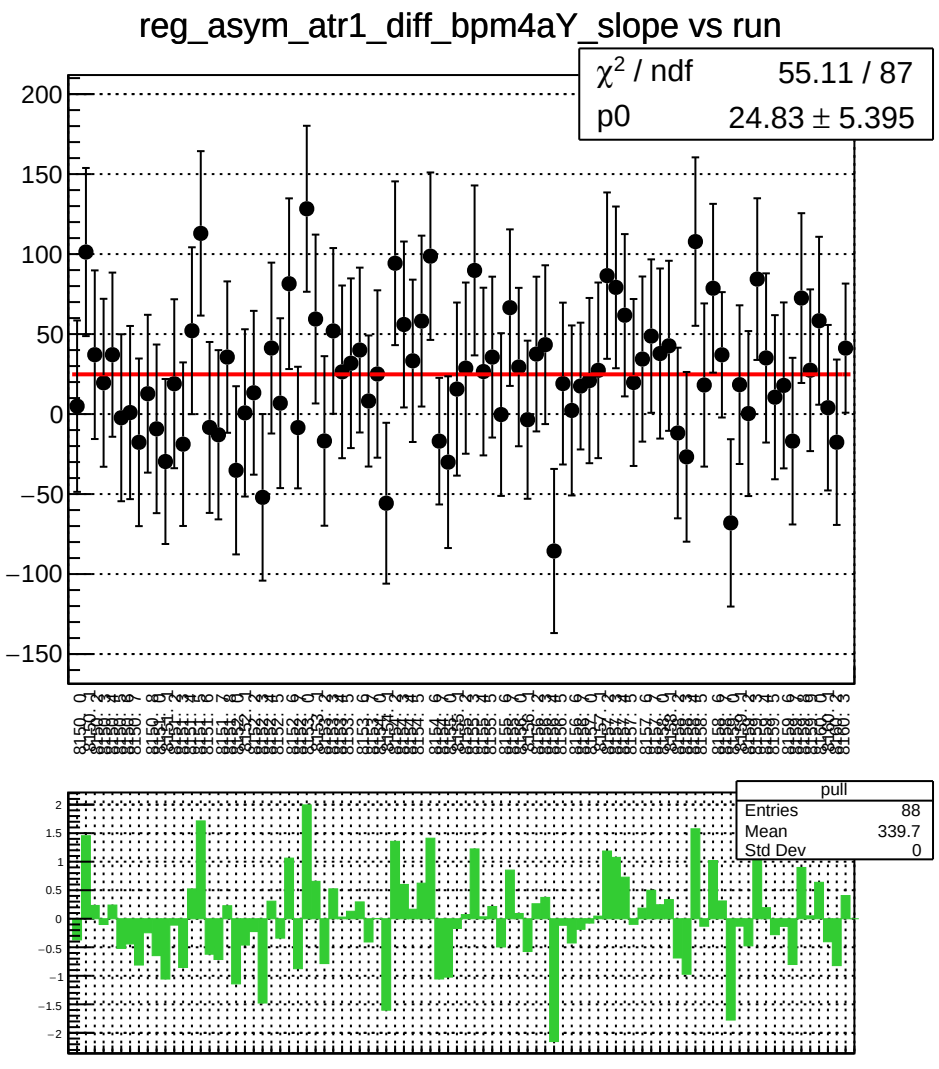

pull1D
Entries 88
Mean 0.0006126
Std Dev 0.241

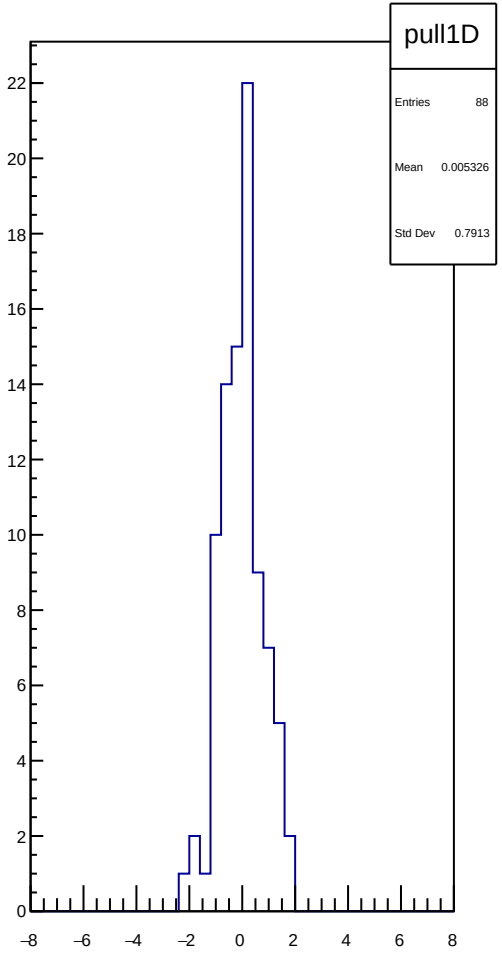

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 6.012 / 87
p0 −44.34 ± 15.18
pull
Entries 88
Mean 99.17
Std Dev 0

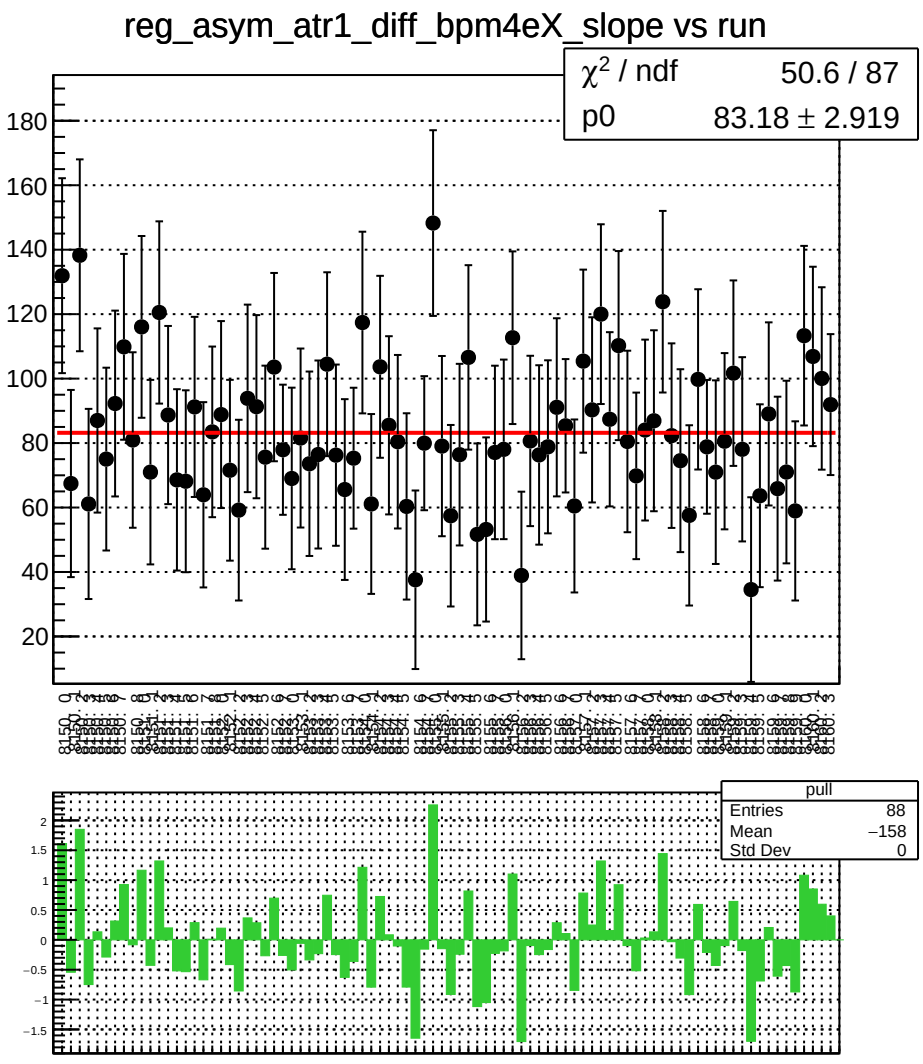

pull1D
Entries 88
Mean −0.00482
Std Dev 0.2613

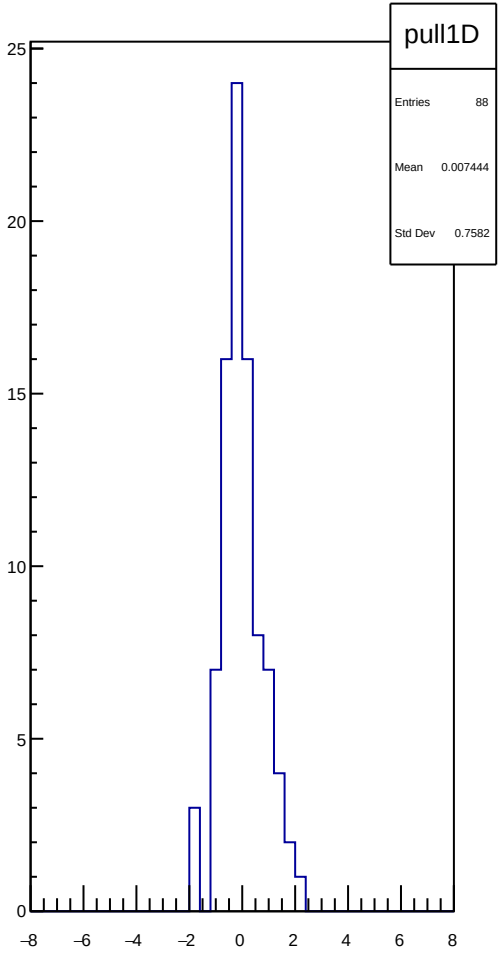

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 8.386 / 87
p0 −274.4 ± 0.7108
−265
−270
−275
−280
−285
pull
Entries 88
Mean −73.29
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.004095
Std Dev 0.3087
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

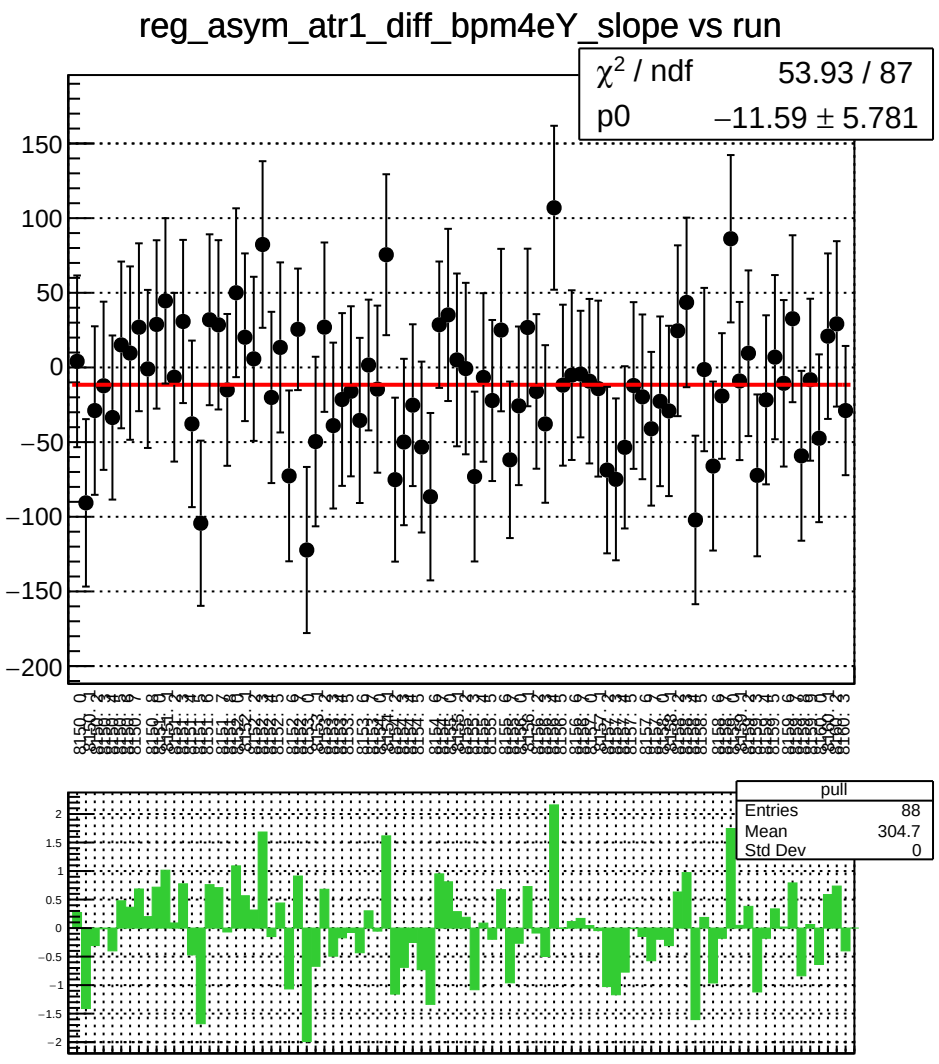

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 50.28 / 87
p0 −156.7 ± 2.881
pull
Entries 88
Mean −145.8
Std Dev 0
pull1D
Entries 88
Mean −0.006441
Std Dev 0.7559

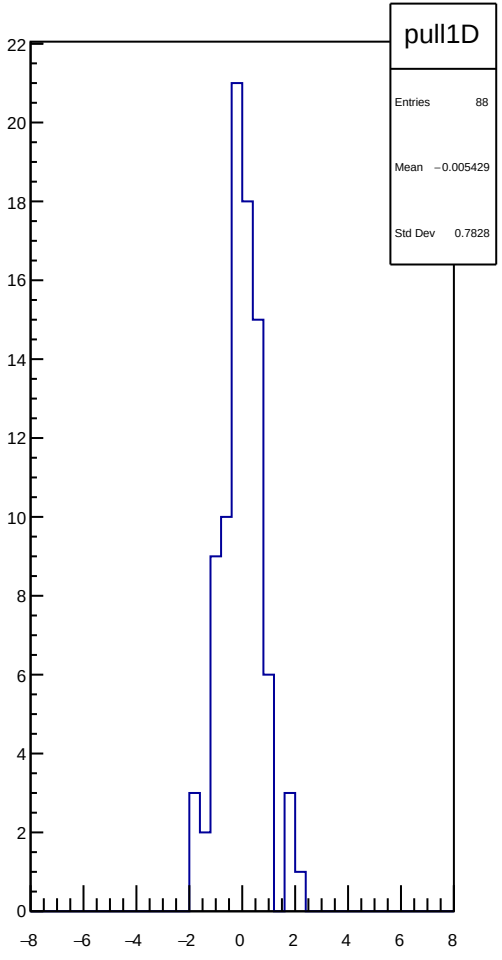

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 55.11 / 87
p0 24.83 ± 5.395
pull
Entries 88
Mean 339.7
Std Dev 0

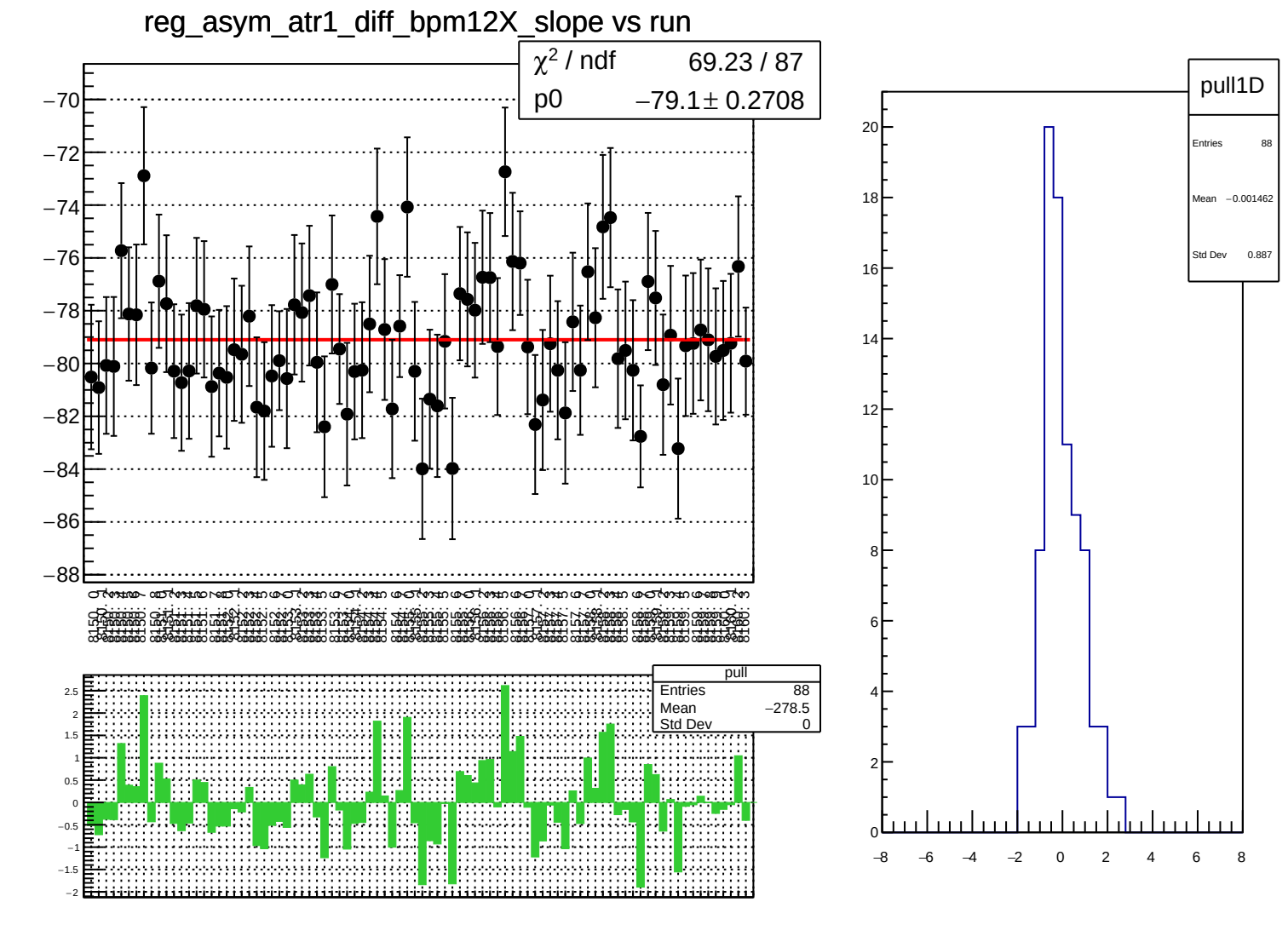

pull1D
Entries 88
Mean 0.005326
Std Dev 0.7913

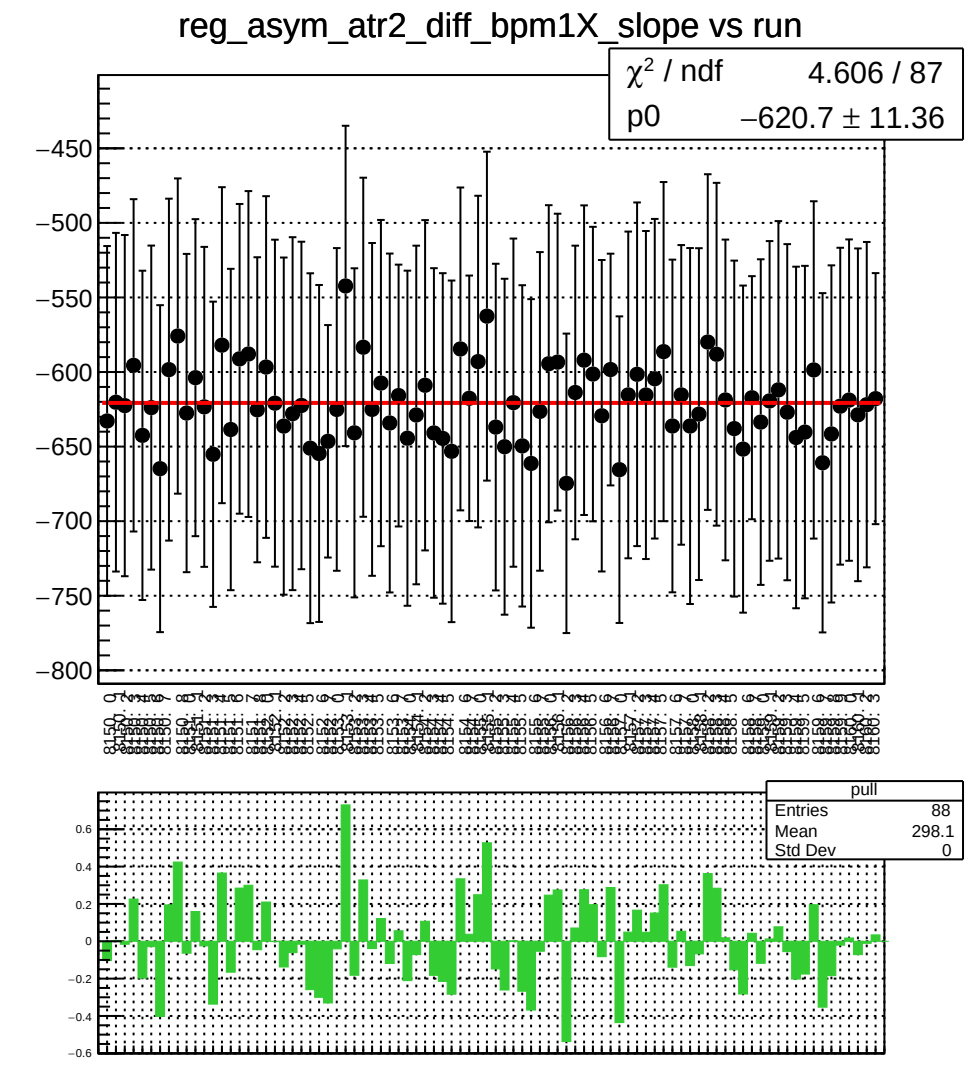

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 50.6 / 87
p0 83.18 ± 2.919
pull
Entries 88
Mean −158
Std Dev 0

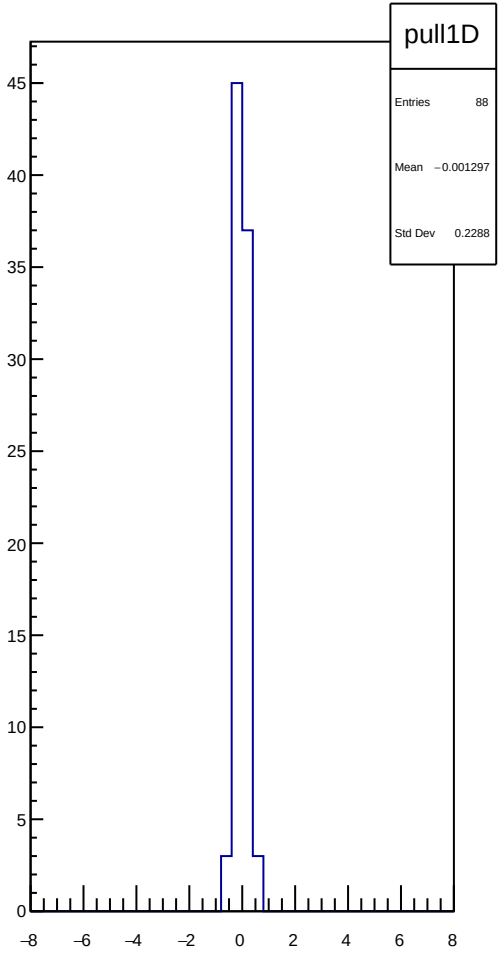

pull1D
Entries 88
Mean 0.007444
Std Dev 0.7582

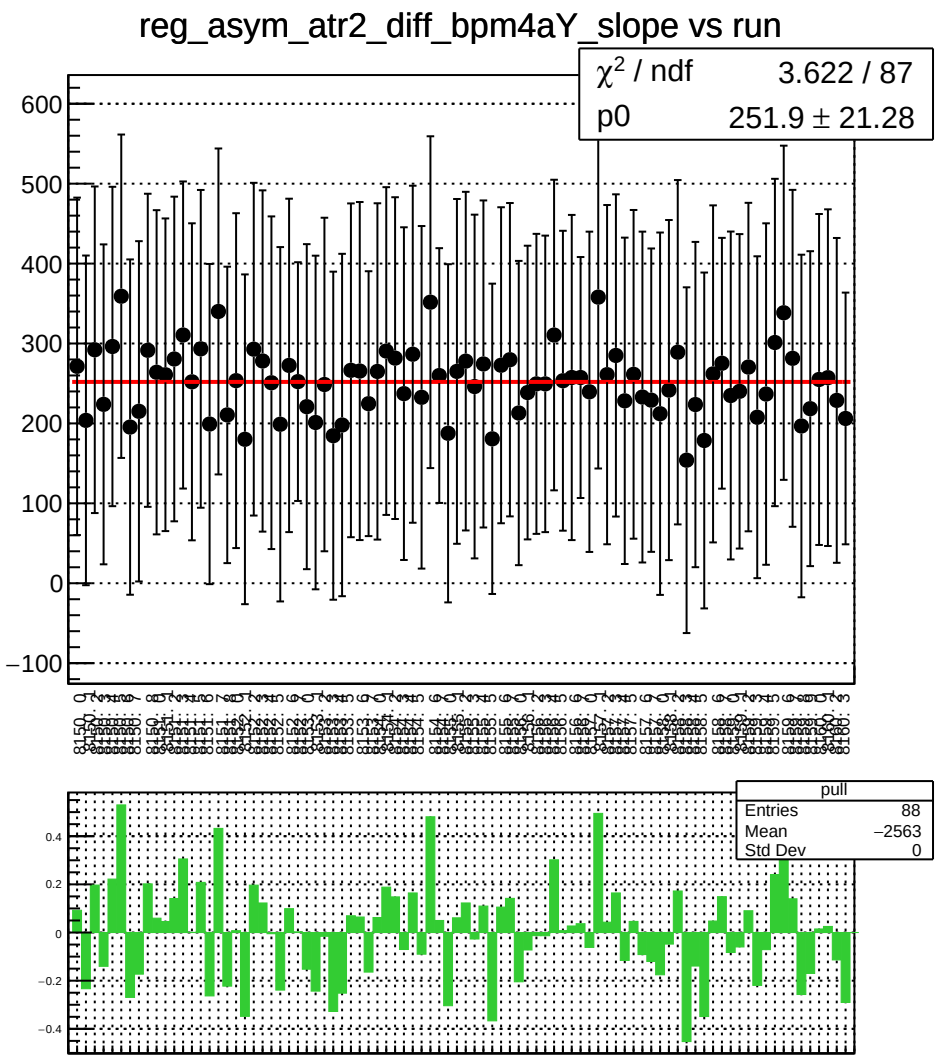

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 53.93 / 87
p0 −11.59 ± 5.781
pull
Entries 88
Mean 304.7
Std Dev 0

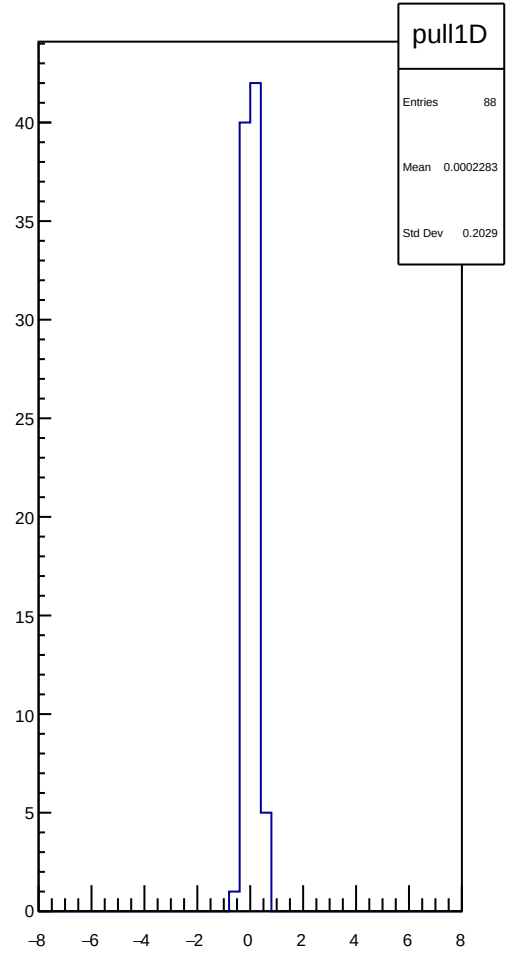

pull1D
Entries 88
Mean −0.005429
Std Dev 0.7828

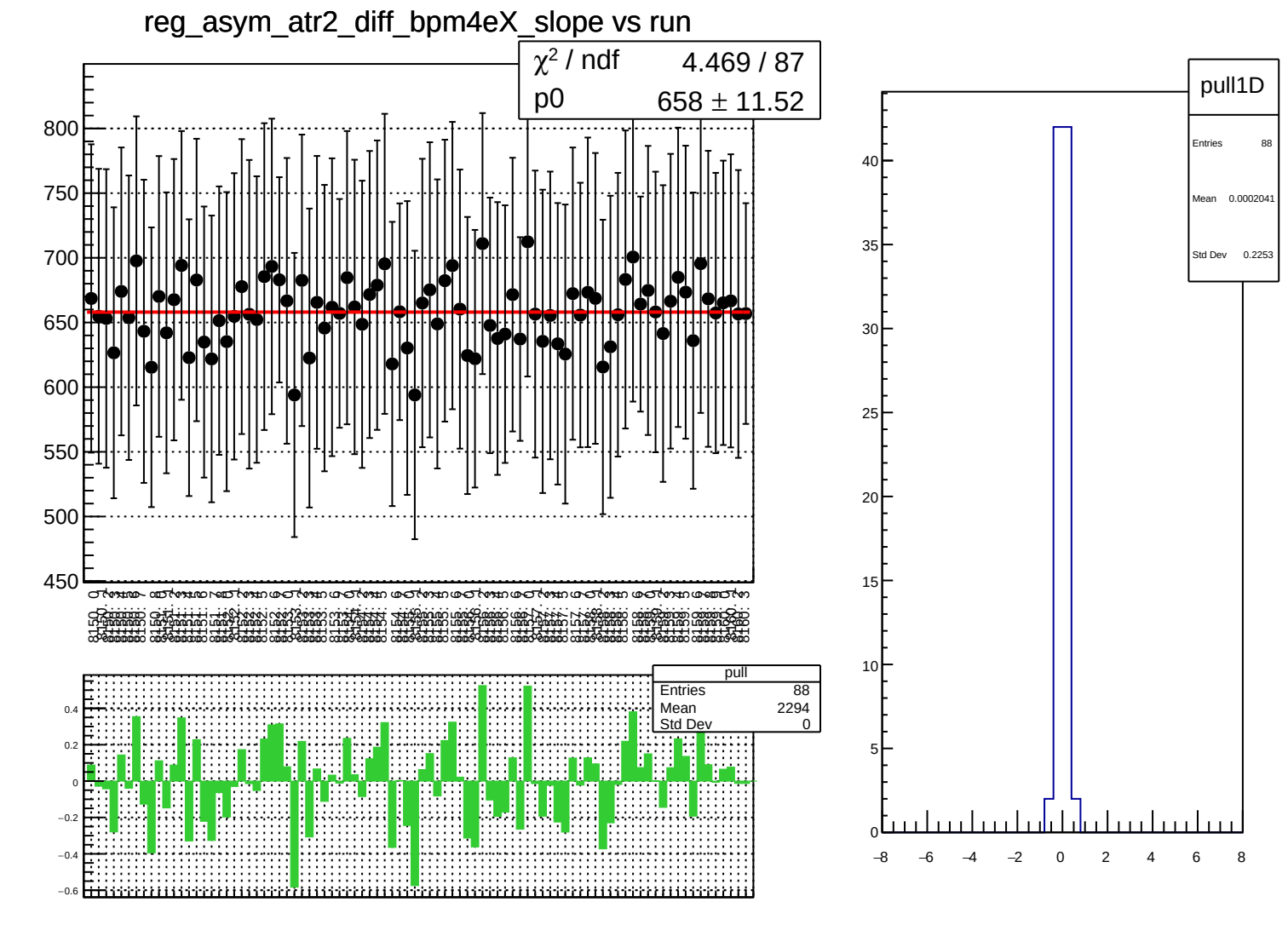

reg_asym_atr1_diff_bpm12X_slope vs run
χ^2 / ndf 69.23 / 87
p0 −79.1 ± 0.2708
pull
Entries 88
Mean −278.5
Std Dev 0
pull1D
Entries 88
Mean −0.001462
Std Dev 0.887

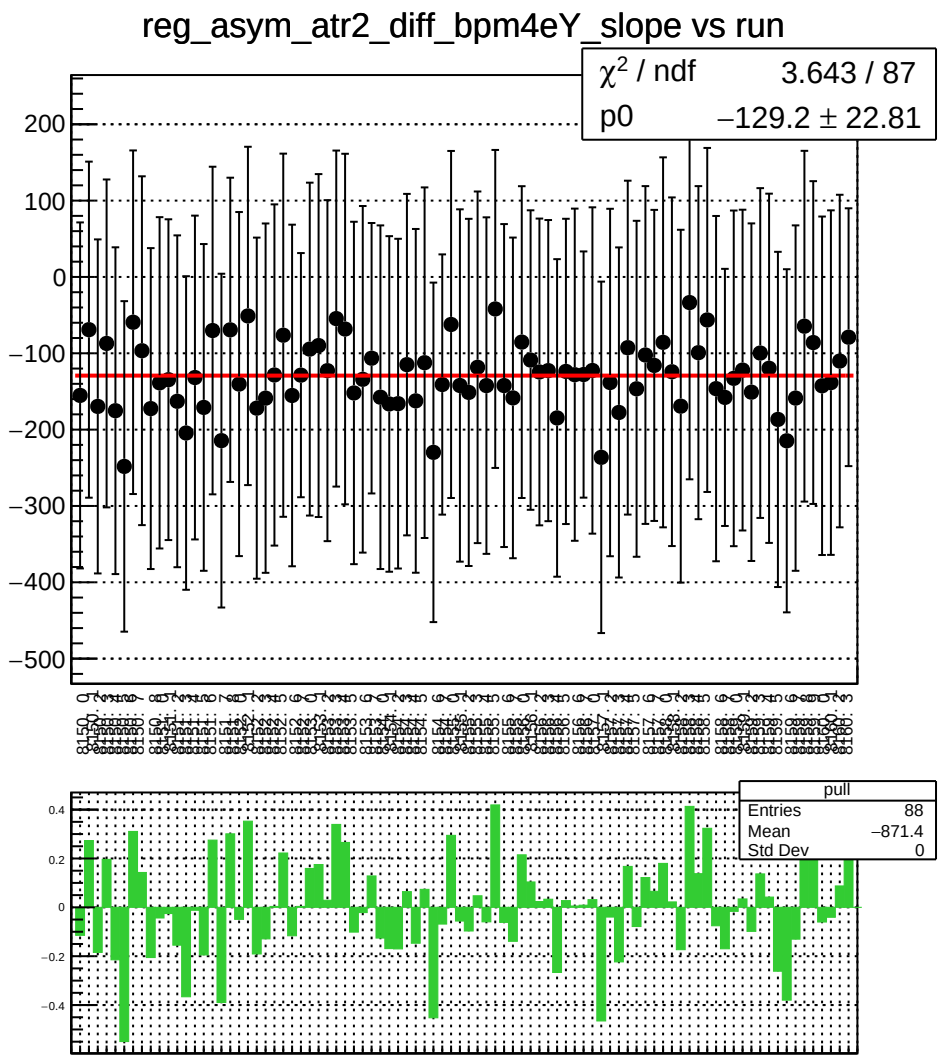

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 4.606 / 87
p0 −620.7 ± 11.36
pull
Entries 88
Mean 298.1
Std Dev 0

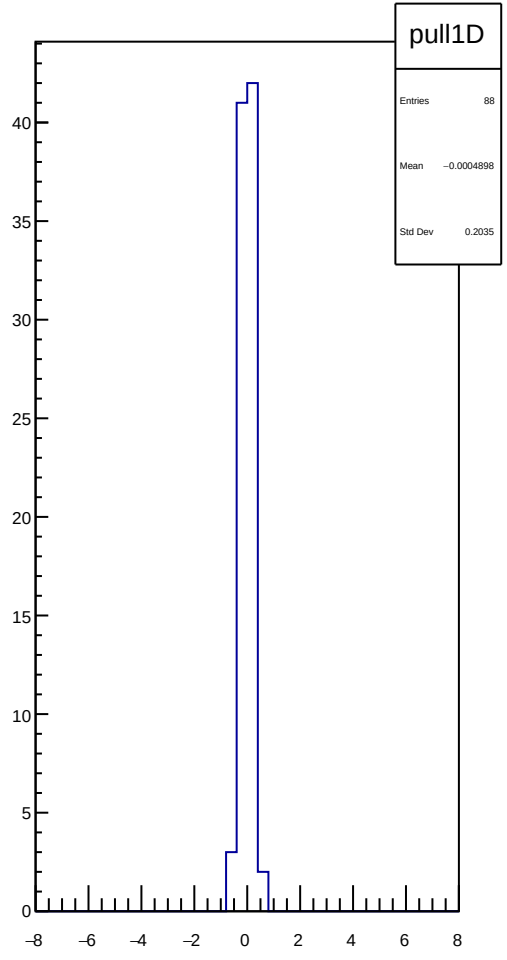

pull1D
Entries 88
Mean −0.001297
Std Dev 0.2288

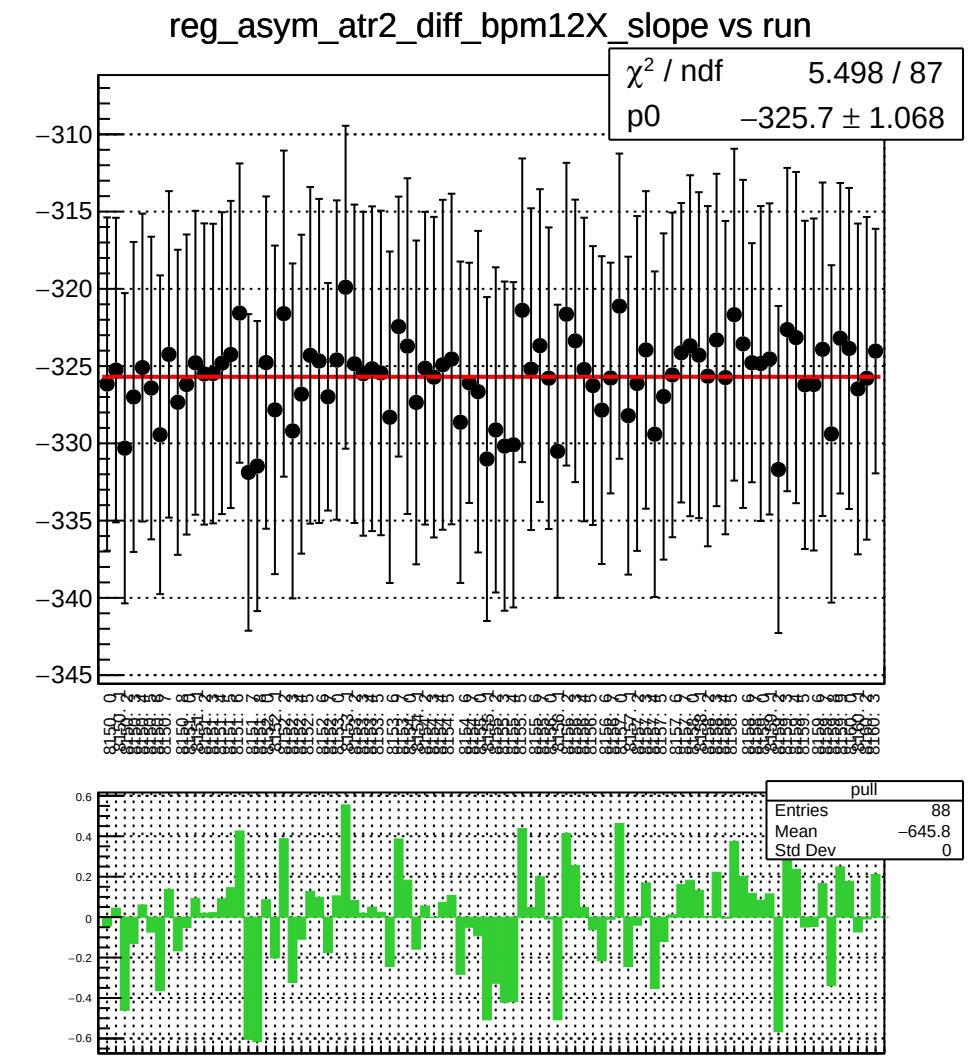

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.622 / 87
p0 251.9 ± 21.28
pull
Entries 88
Mean −2563
Std Dev 0

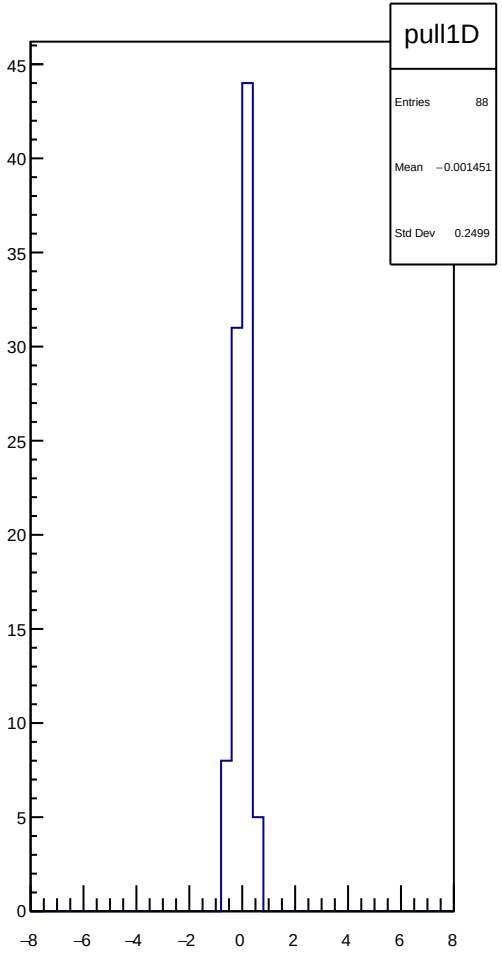

pull1D
Entries 88
Mean 0.0002283
Std Dev 0.2029

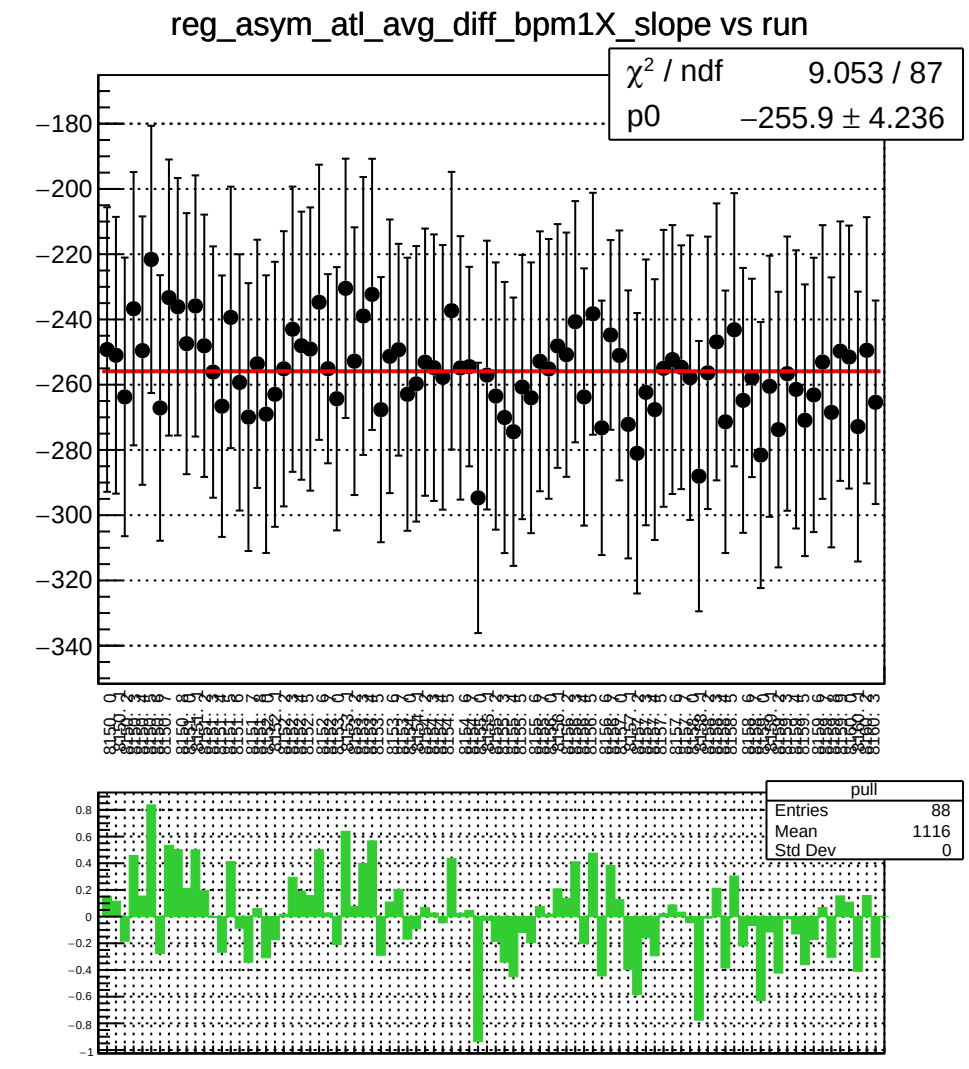

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 4.469 / 87
p0 658 ± 11.52
800
750
700
650
600
550
500
450
pull
Entries 88
Mean 2294
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.0002041
Std Dev 0.2253
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

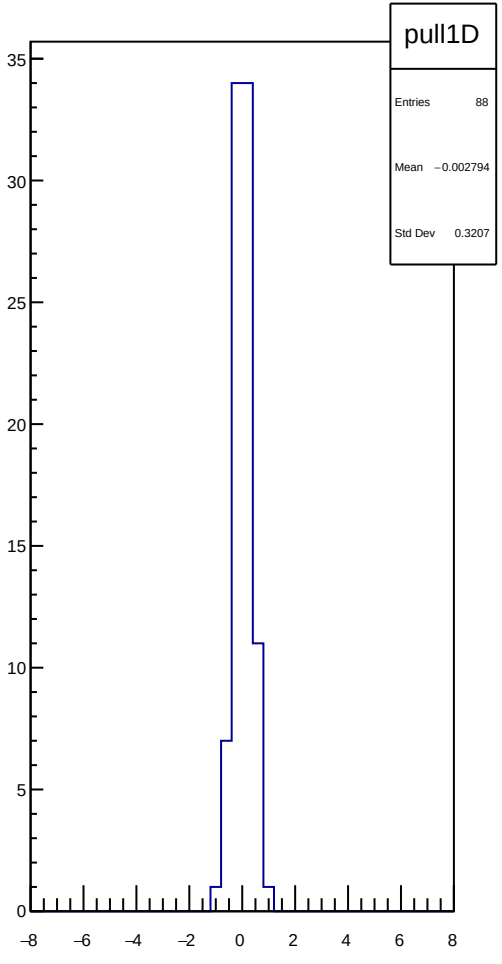

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.643 / 87
p0 −129.2 ± 22.81
pull
Entries 88
Mean −871.4
Std Dev 0

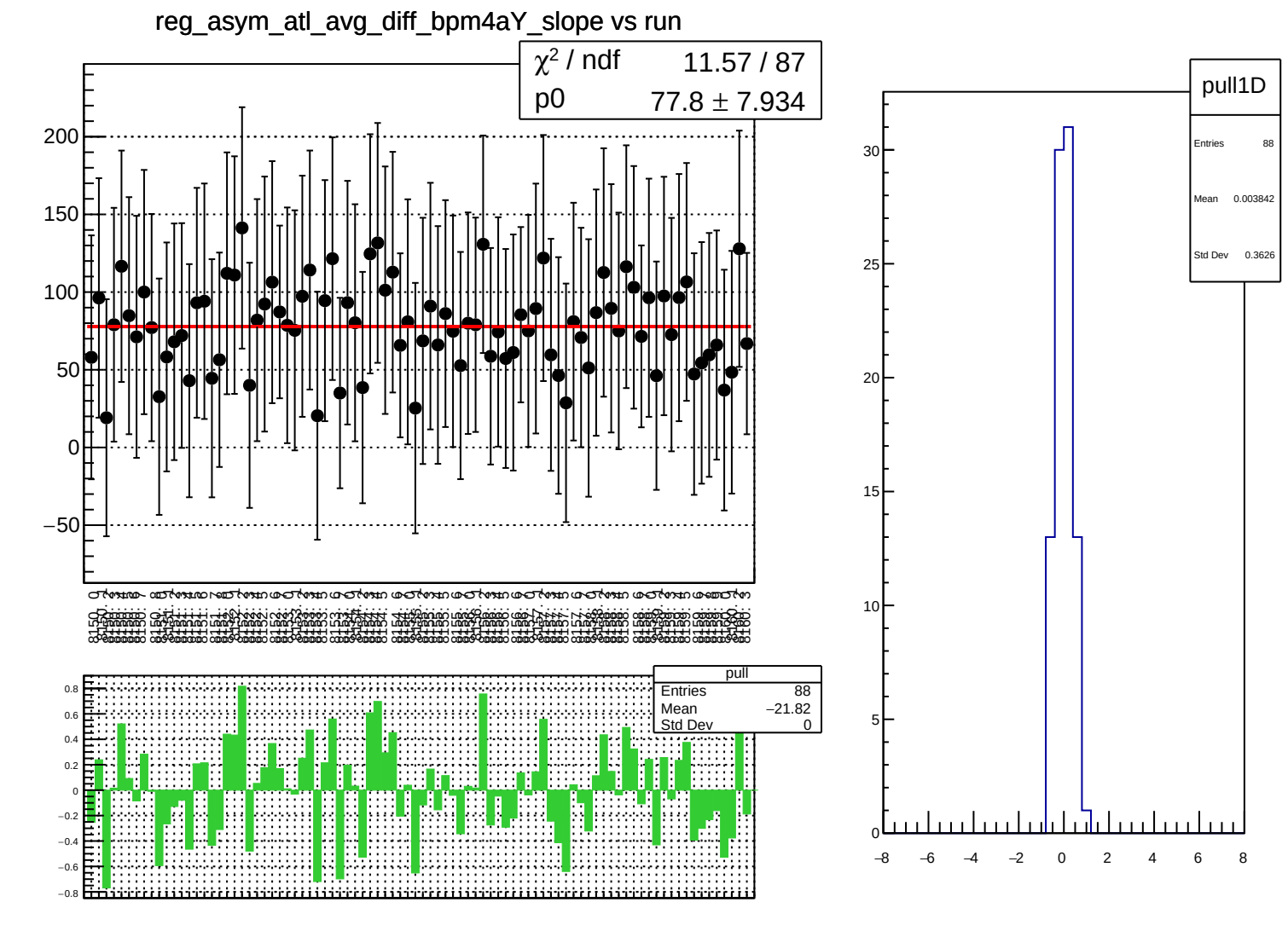

pull1D
Entries 88
Mean −0.0004898
Std Dev 0.2035

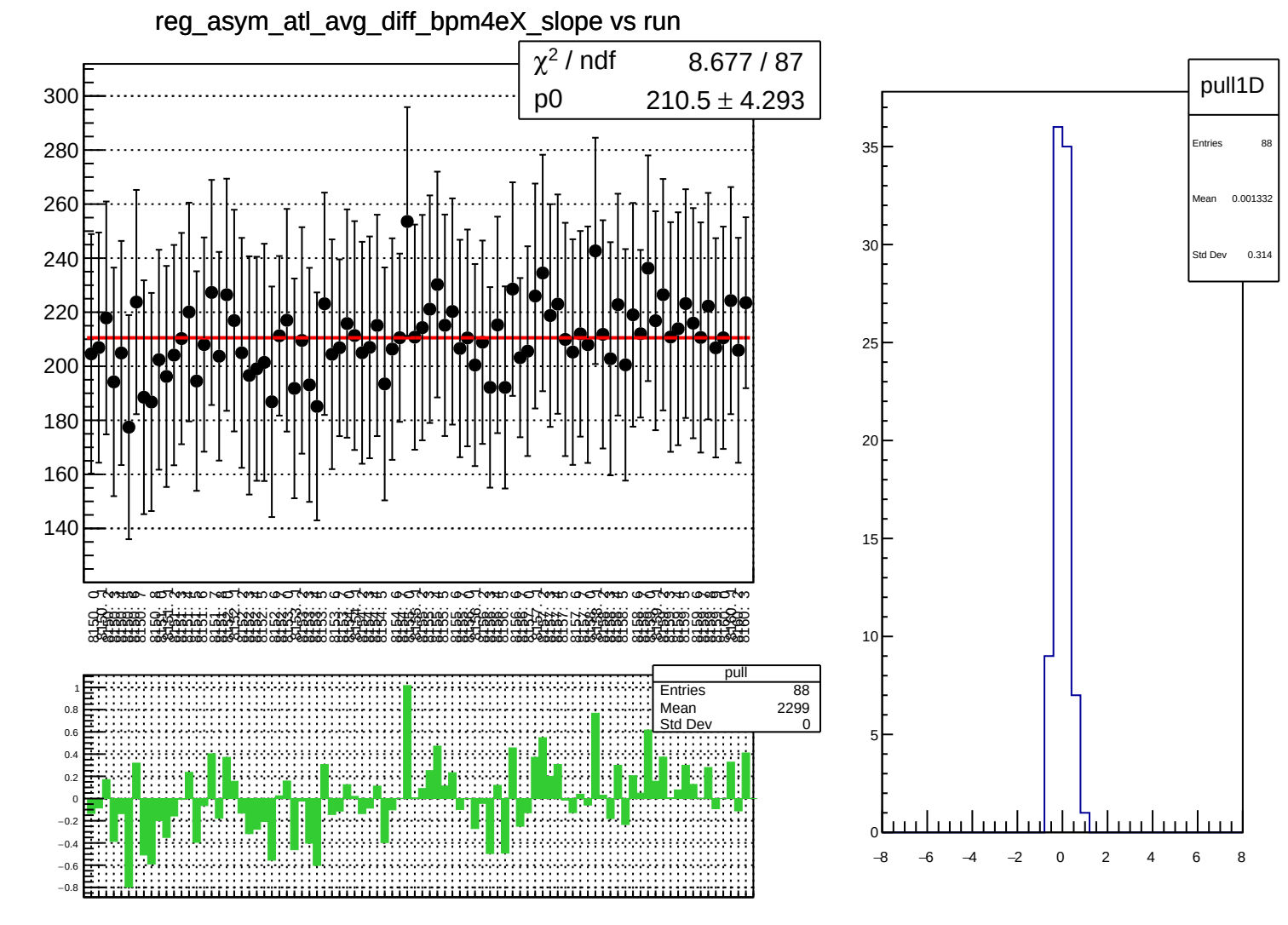

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 5.498 / 87
p0 −325.7 ± 1.068
pull
Entries 88
Mean −645.8
Std Dev 0

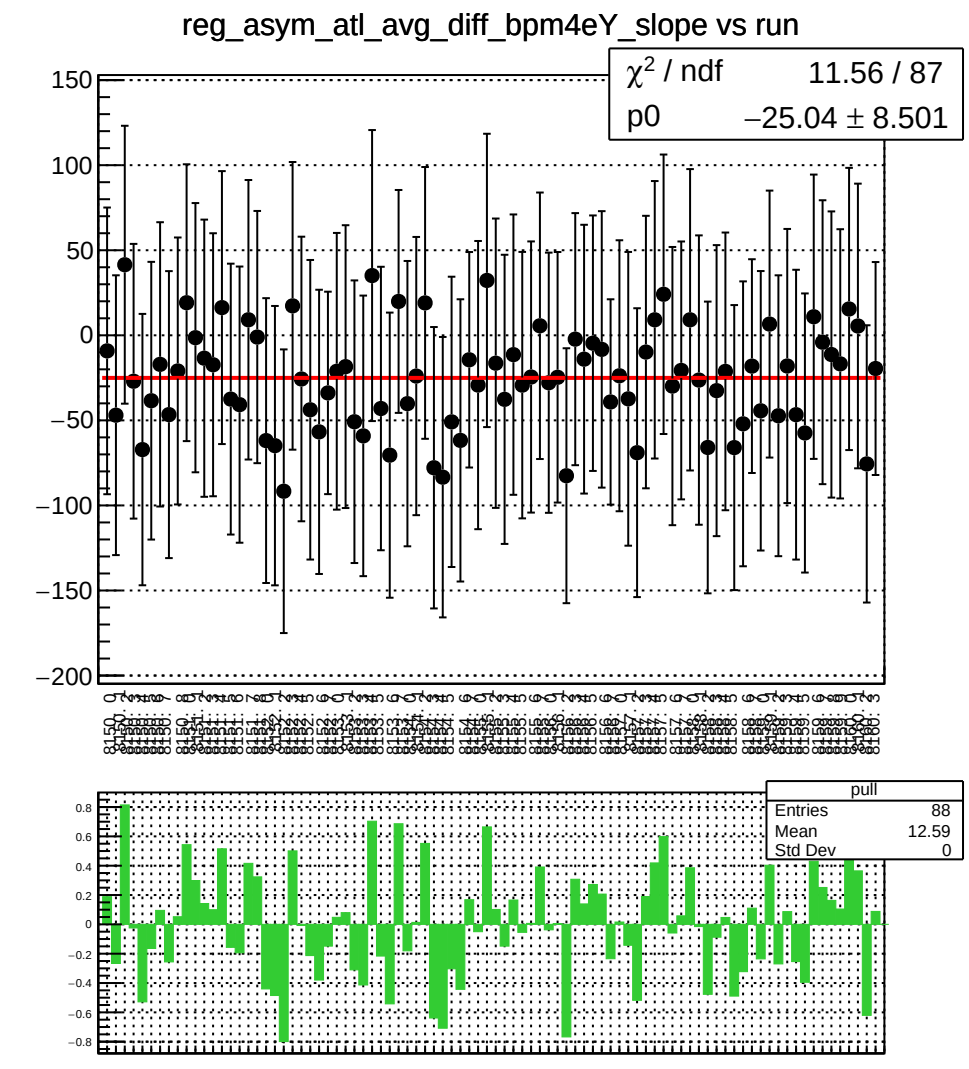

pull1D
Entries 88
Mean −0.001451
Std Dev 0.2499

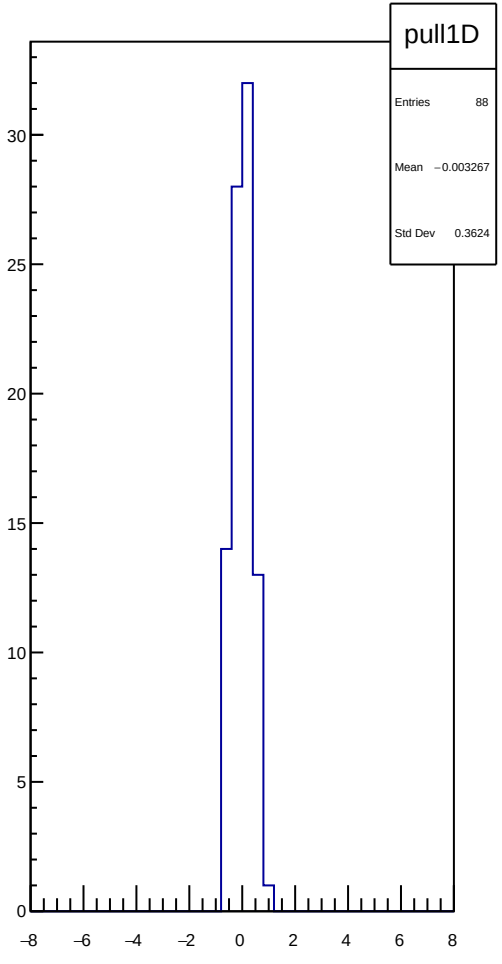

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 9.053 / 87
p0 −255.9 ± 4.236
pull
Entries 88
Mean 1116
Std Dev 0

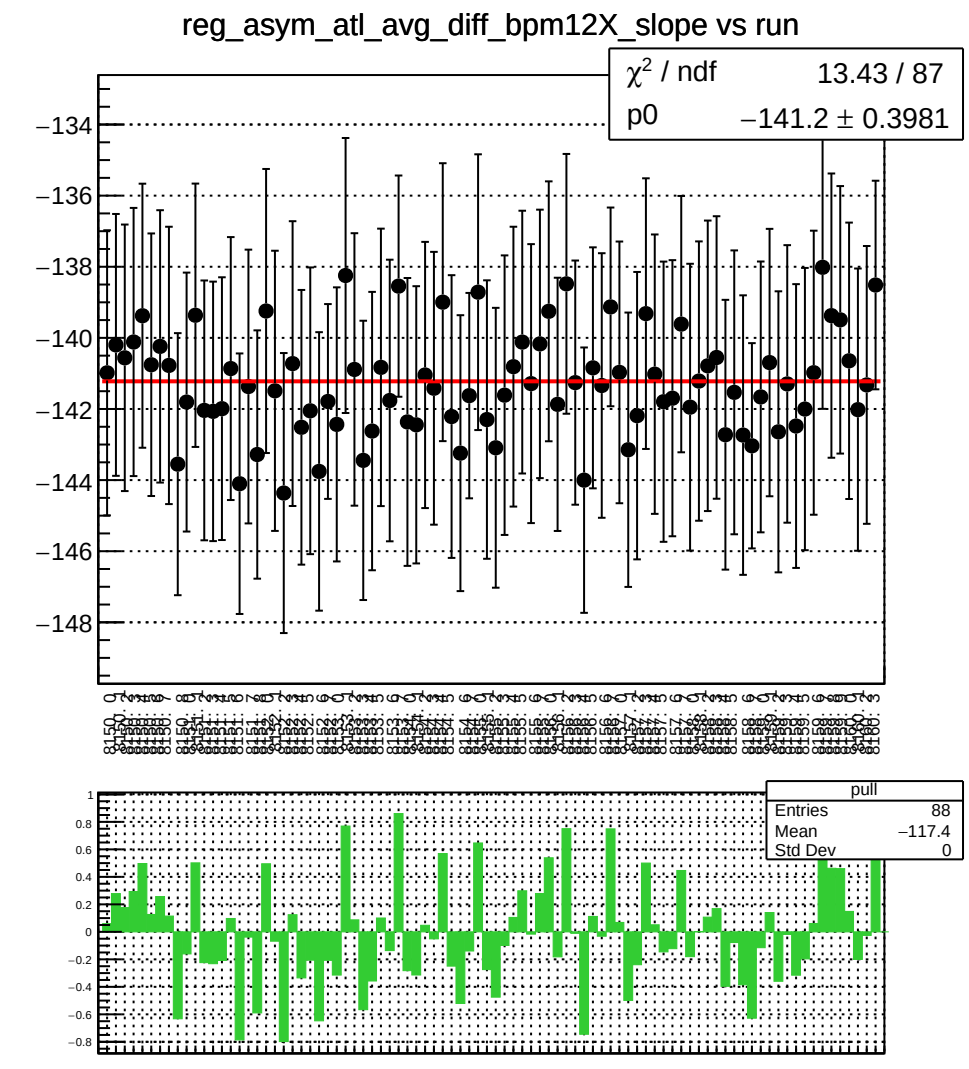

pull1D
Entries 88
Mean −0.002794
Std Dev 0.3207

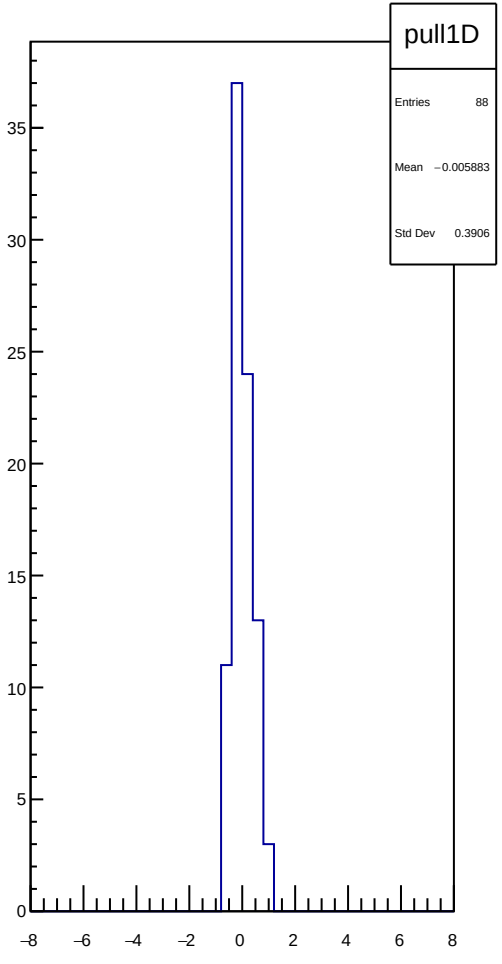

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.57 / 87
p0 77.8 ± 7.934
200
150
100
50
0
−50
pull
Entries 88
Mean −21.82
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean 0.003842
Std Dev 0.3626
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

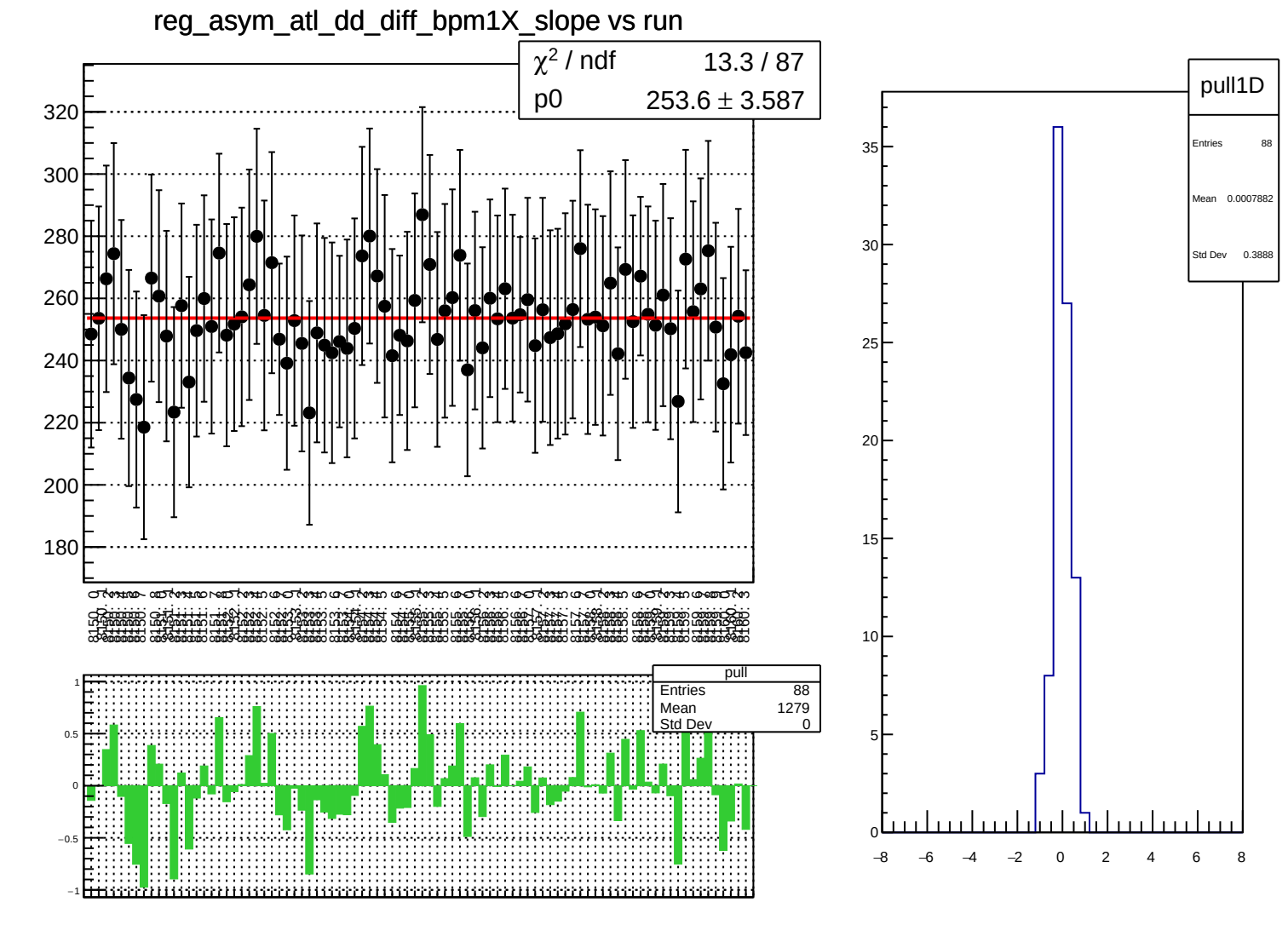

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.677 / 87
p0 210.5 ± 4.293
pull
Entries 88
Mean 2299
Std Dev 0
pull1D
Entries 88
Mean 0.001332
Std Dev 0.314

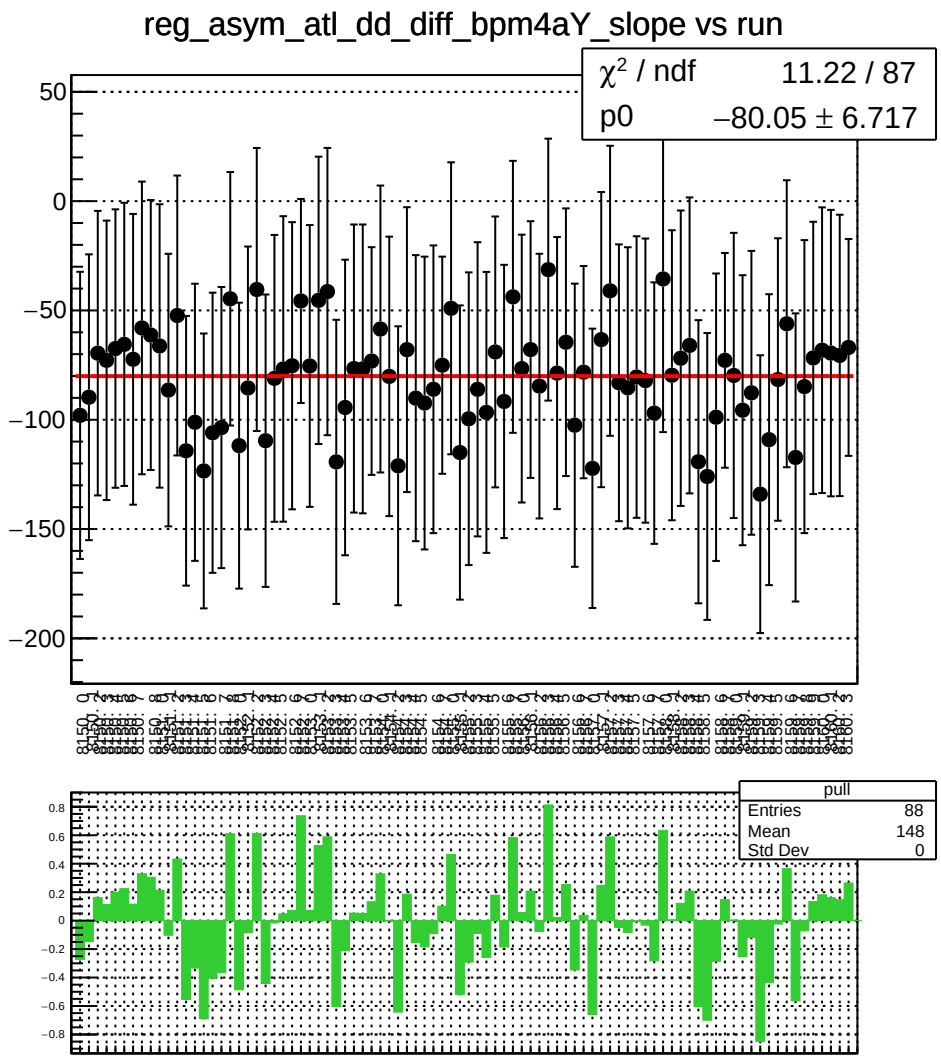

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.56 / 87
p0 −25.04 ± 8.501
pull
Entries 88
Mean 12.59
Std Dev 0

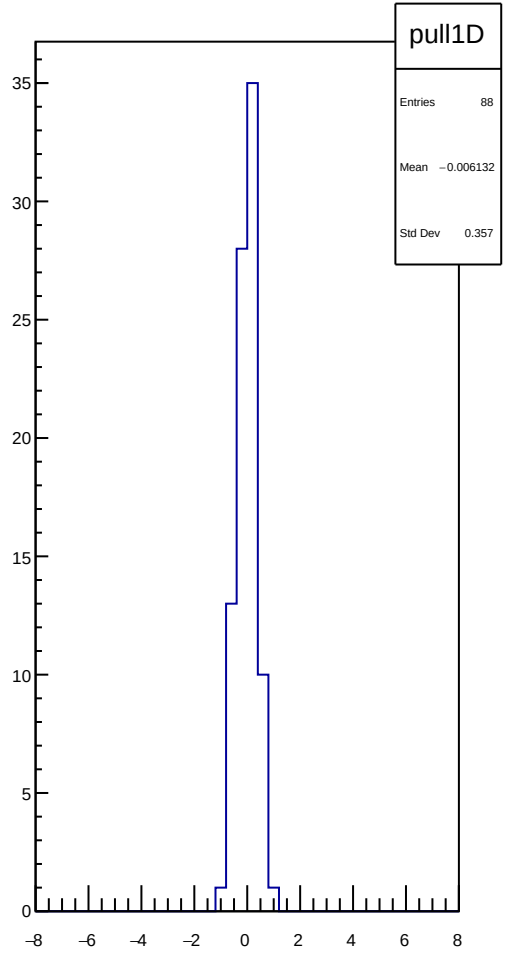

pull1D
Entries 88
Mean −0.003267
Std Dev 0.3624

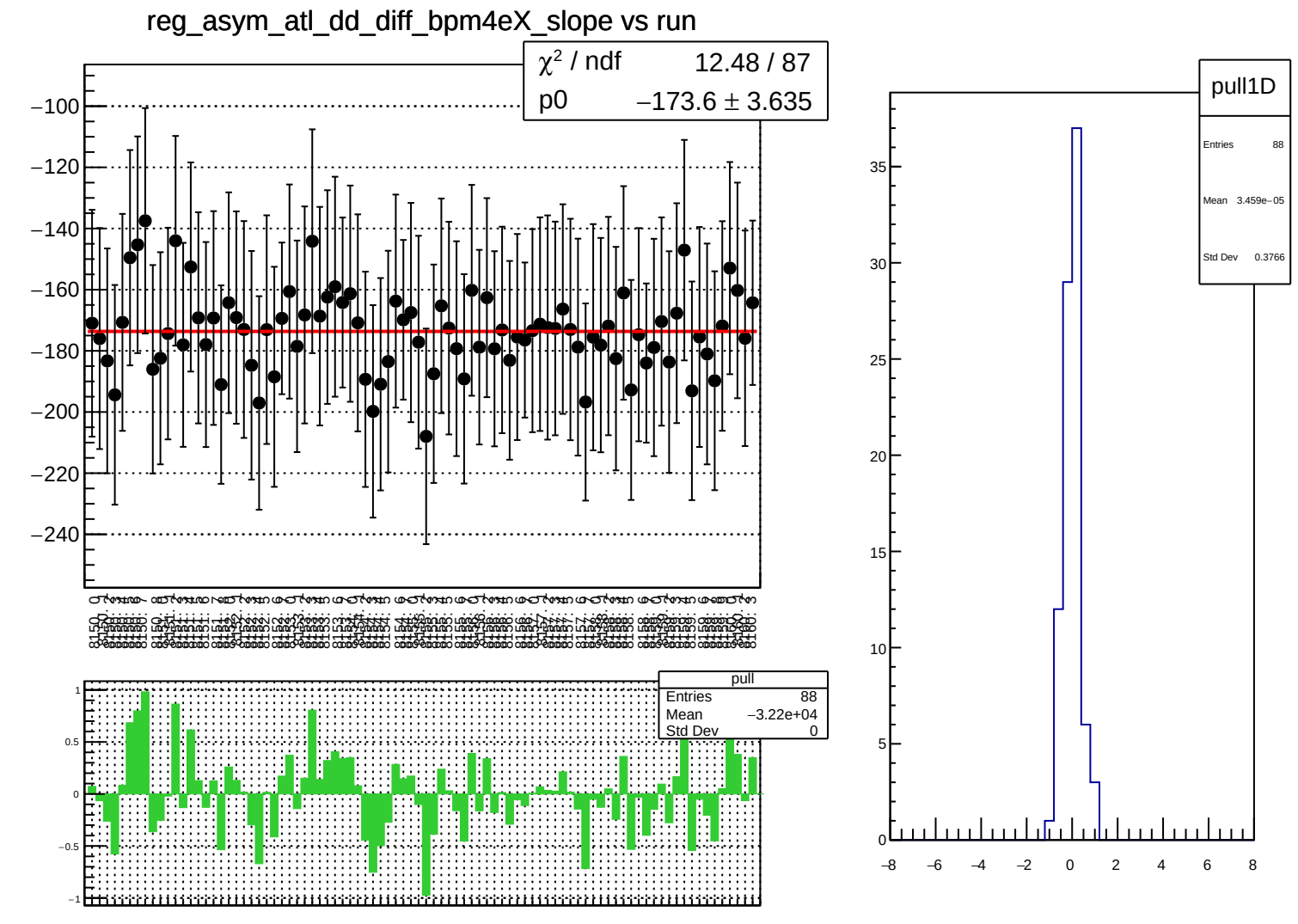

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 13.43 / 87
p0 −141.2 ± 0.3981
pull
Entries 88
Mean −117.4
Std Dev 0

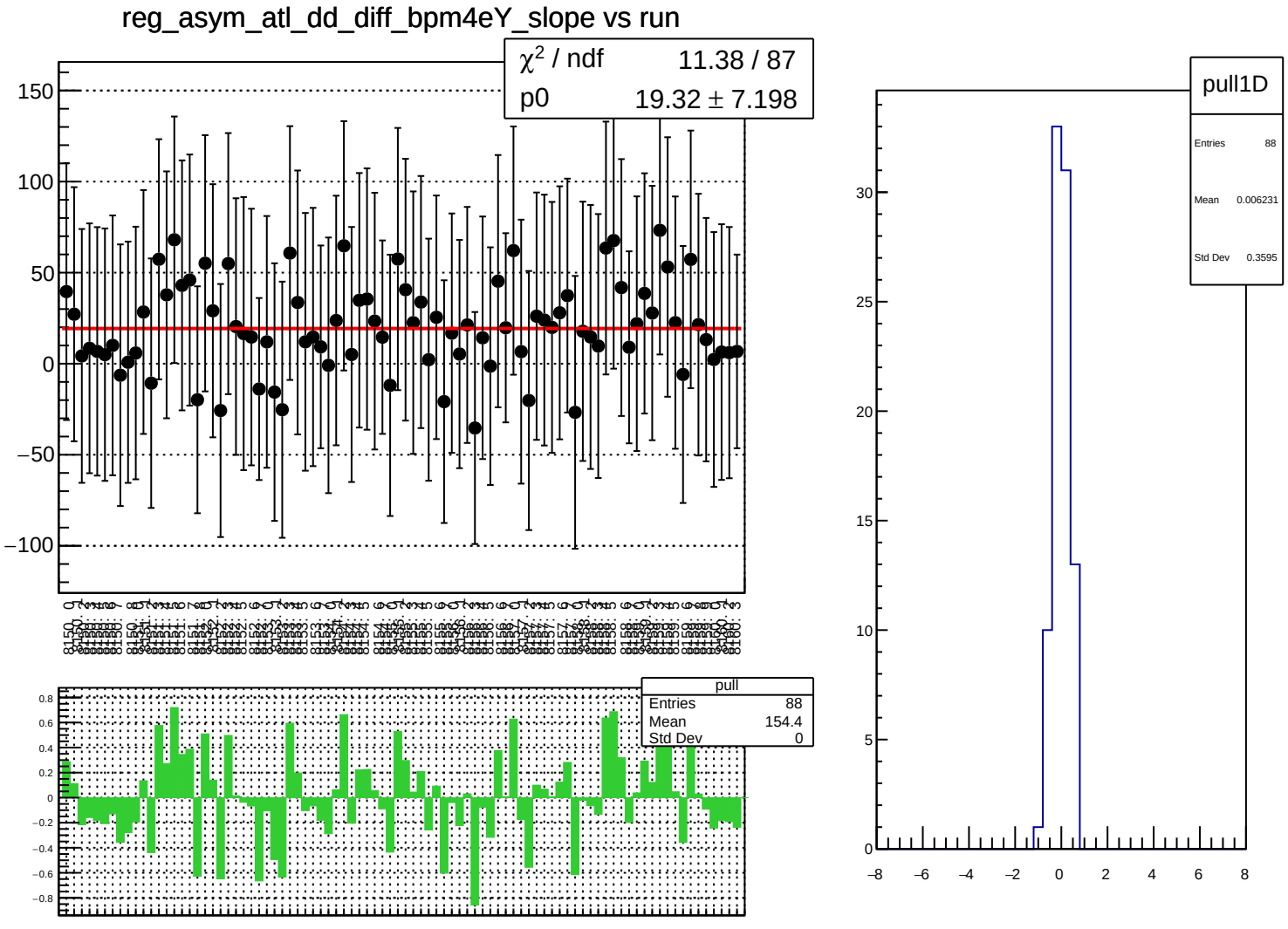

pull1D
Entries 88
Mean −0.005883
Std Dev 0.3906

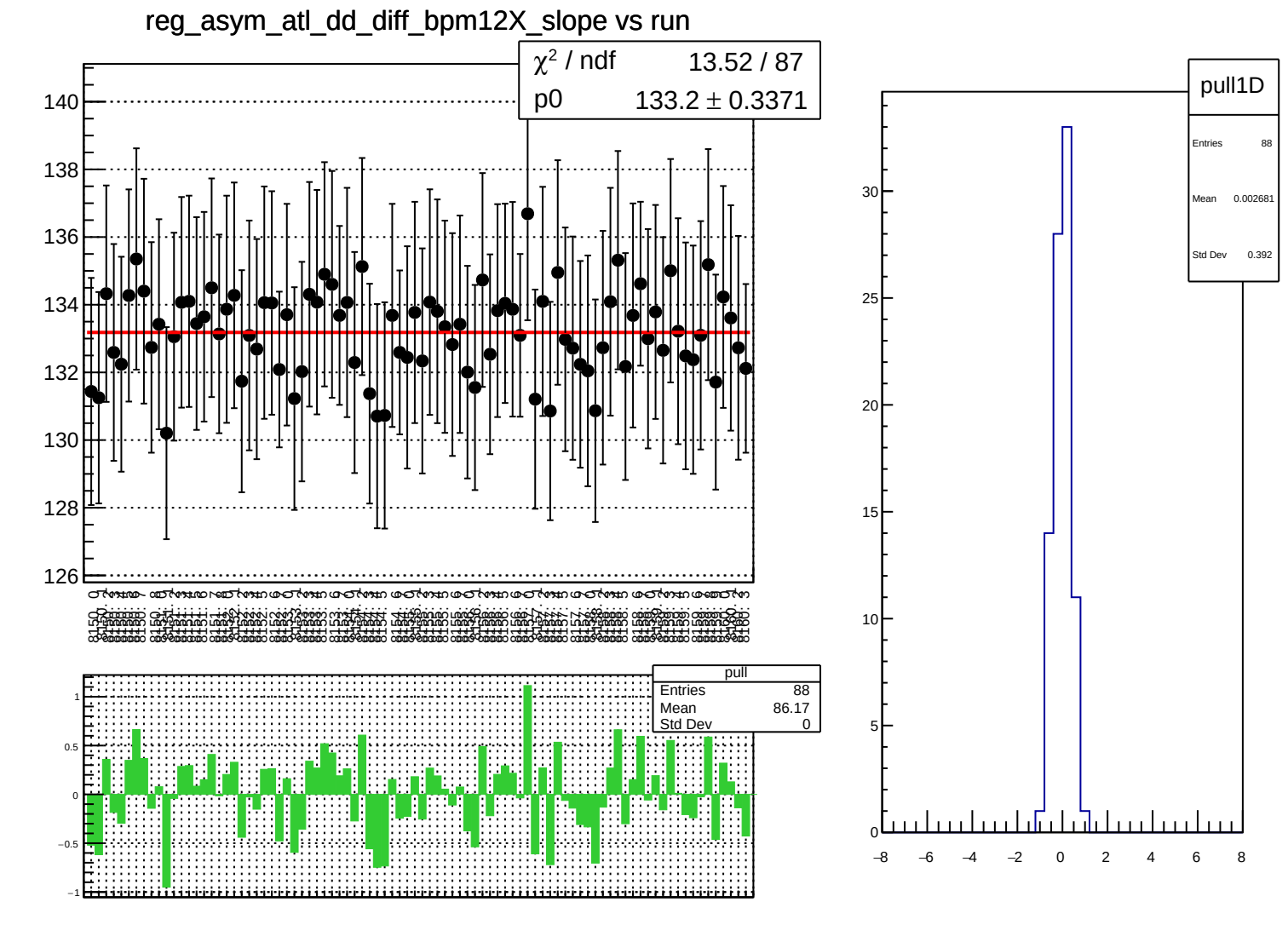

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 13.3 / 87
p0 253.6 ± 3.587
320
300
280
260
240
220
200
180
pull
Entries 88
Mean 1279
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.0007882
Std Dev 0.3888
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

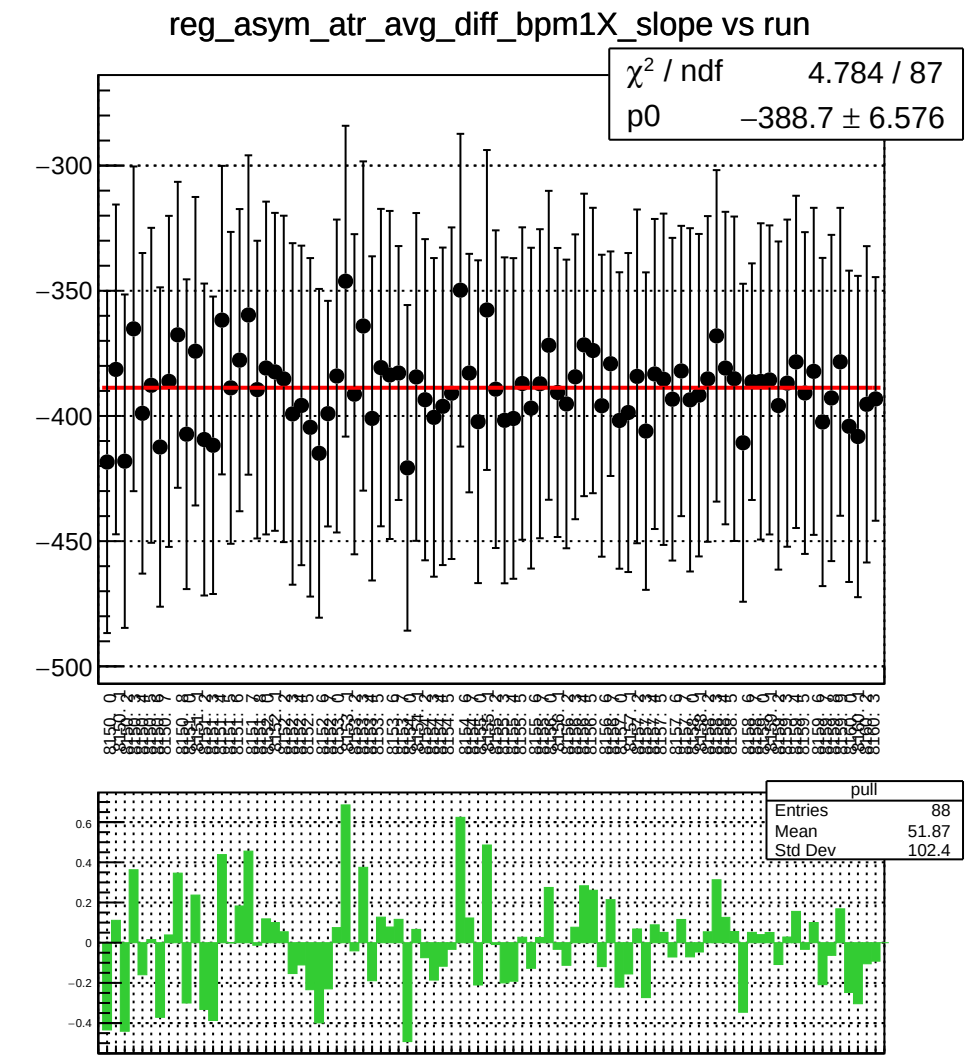

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.22 / 87
p0 −80.05 ± 6.717
pull
Entries 88
Mean 148
Std Dev 0

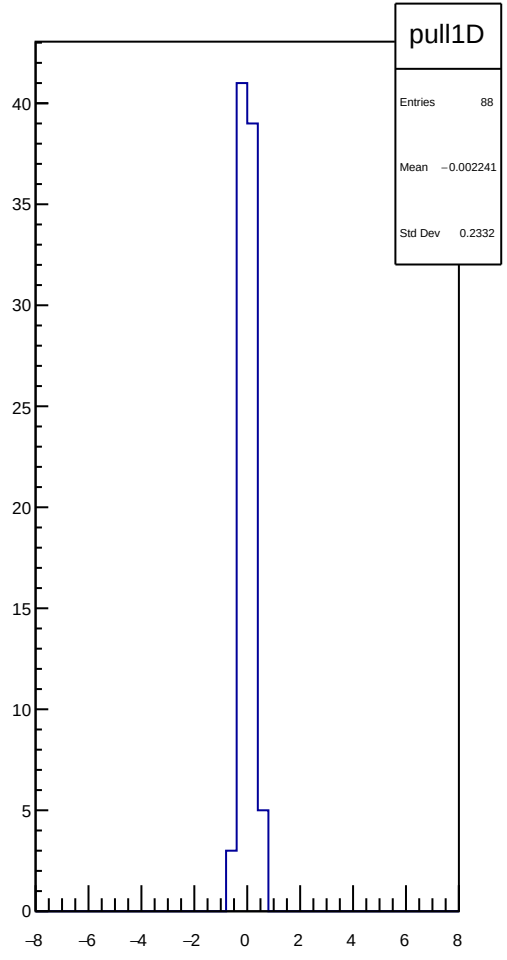

pull1D
Entries 88
Mean −0.006132
Std Dev 0.357

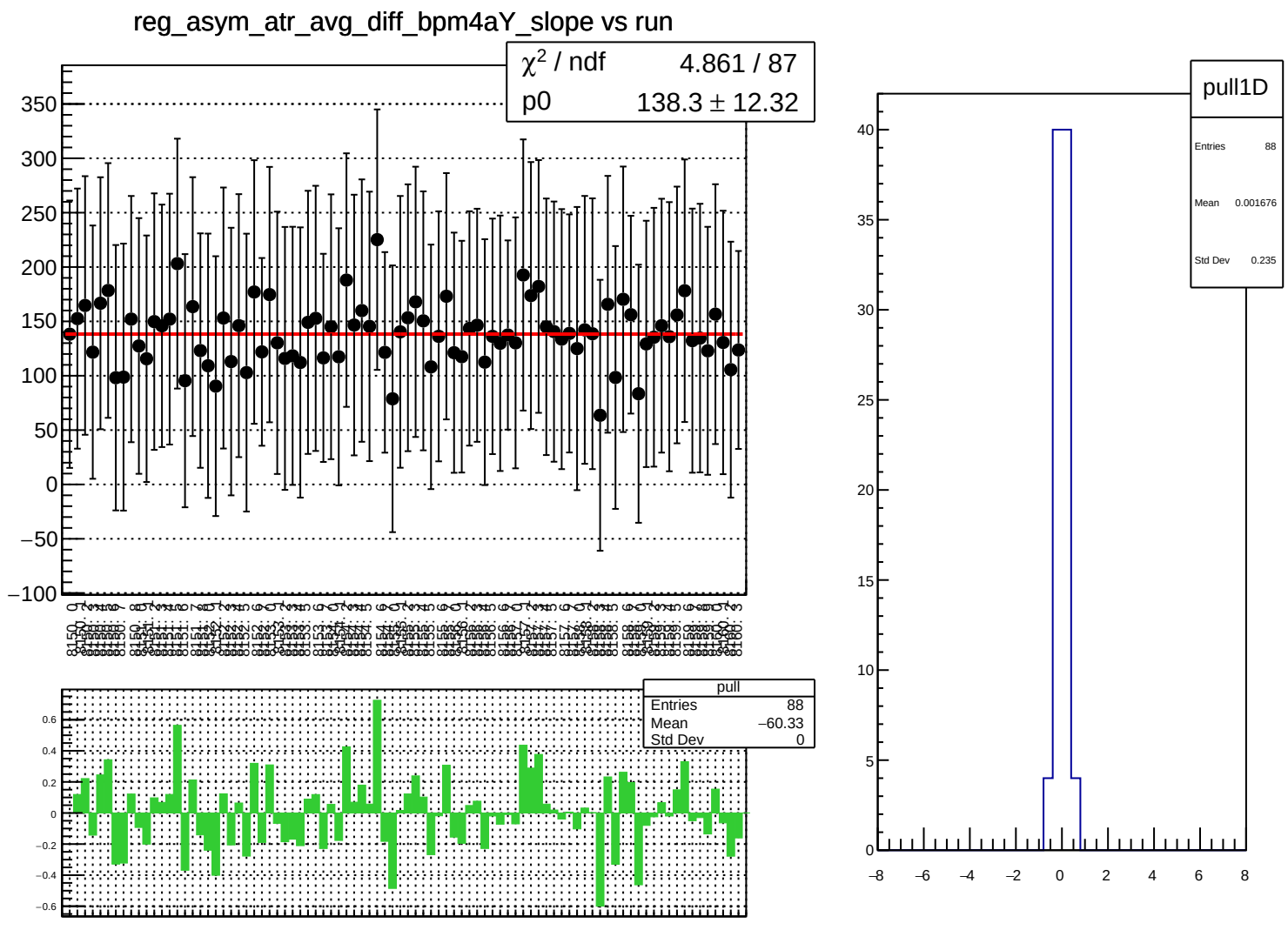

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.48 / 87
p0 −173.6 ± 3.635
−100
−120
−140
−160
−180
−200
−220
−240
pull
Entries 88
Mean −3.22e+04
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 3.459e−05
Std Dev 0.3766
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

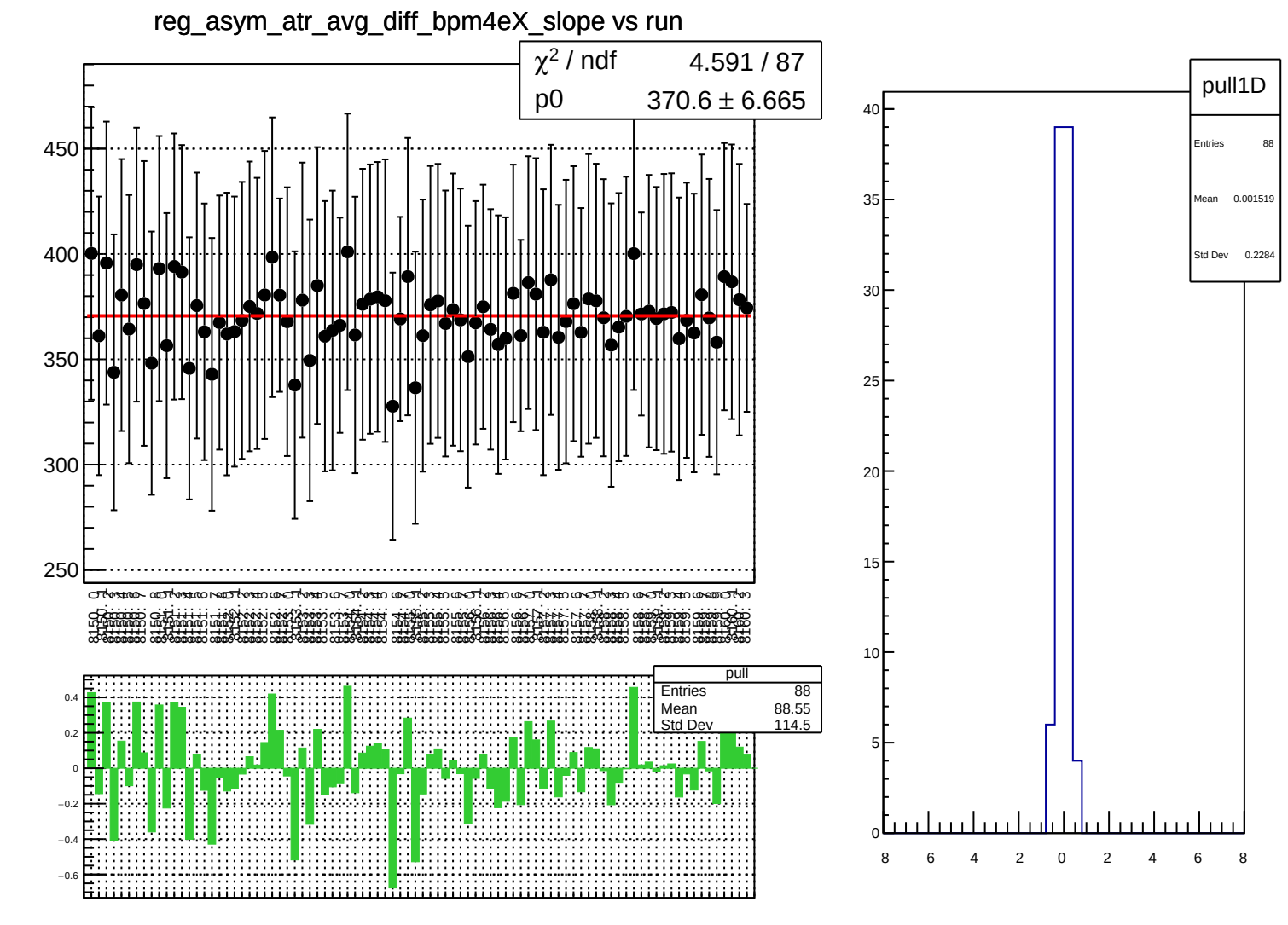

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.38 / 87
p0 19.32 ± 7.198
150
100
50
0
−50
−100
pull
Entries 88
Mean 154.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean 0.006231
Std Dev 0.3595
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

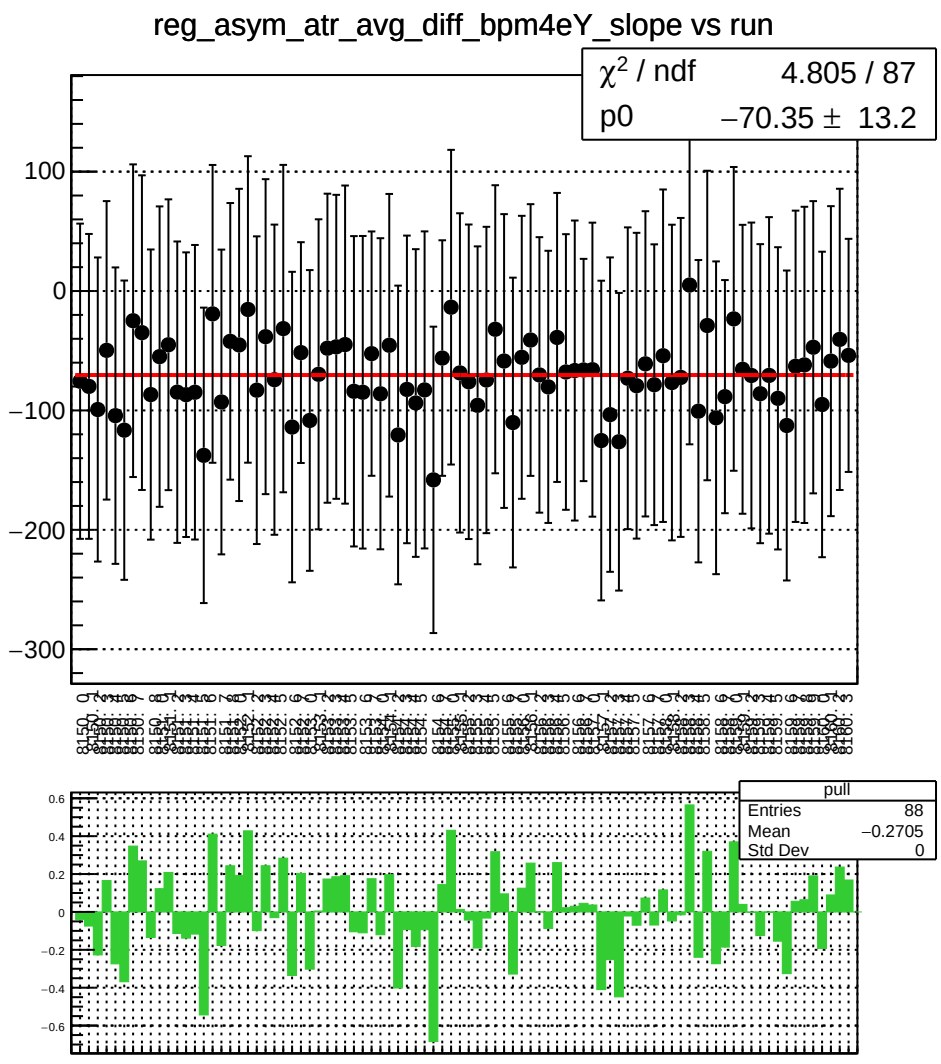

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 13.52 / 87
p0 133.2 ± 0.3371
pull
Entries 88
Mean 86.17
Std Dev 0
pull1D
Entries 88
Mean 0.002681
Std Dev 0.392

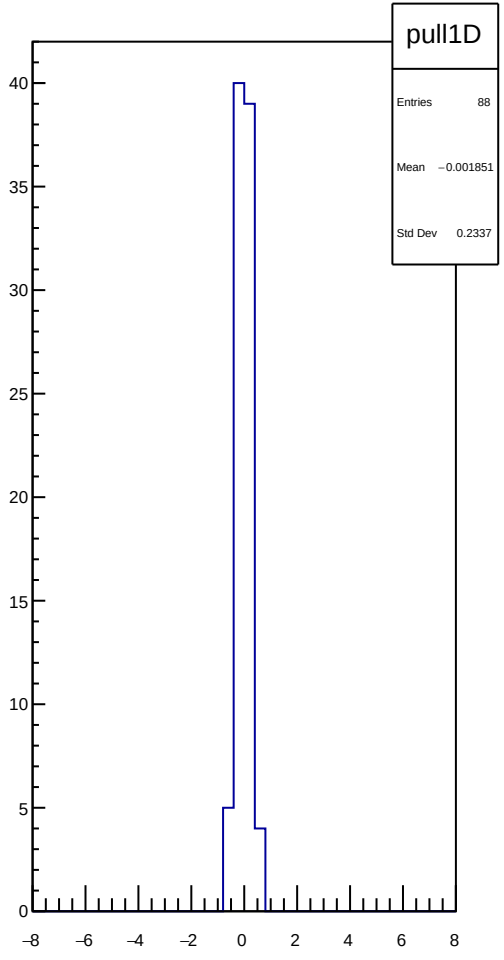

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 4.784 / 87
p0 −388.7 ± 6.576
−300
−350
−400
−450
−500
pull
Entries 88
Mean 51.87
Std Dev 102.4
0.6
0.4
0.2
0
−0.2
−0.4

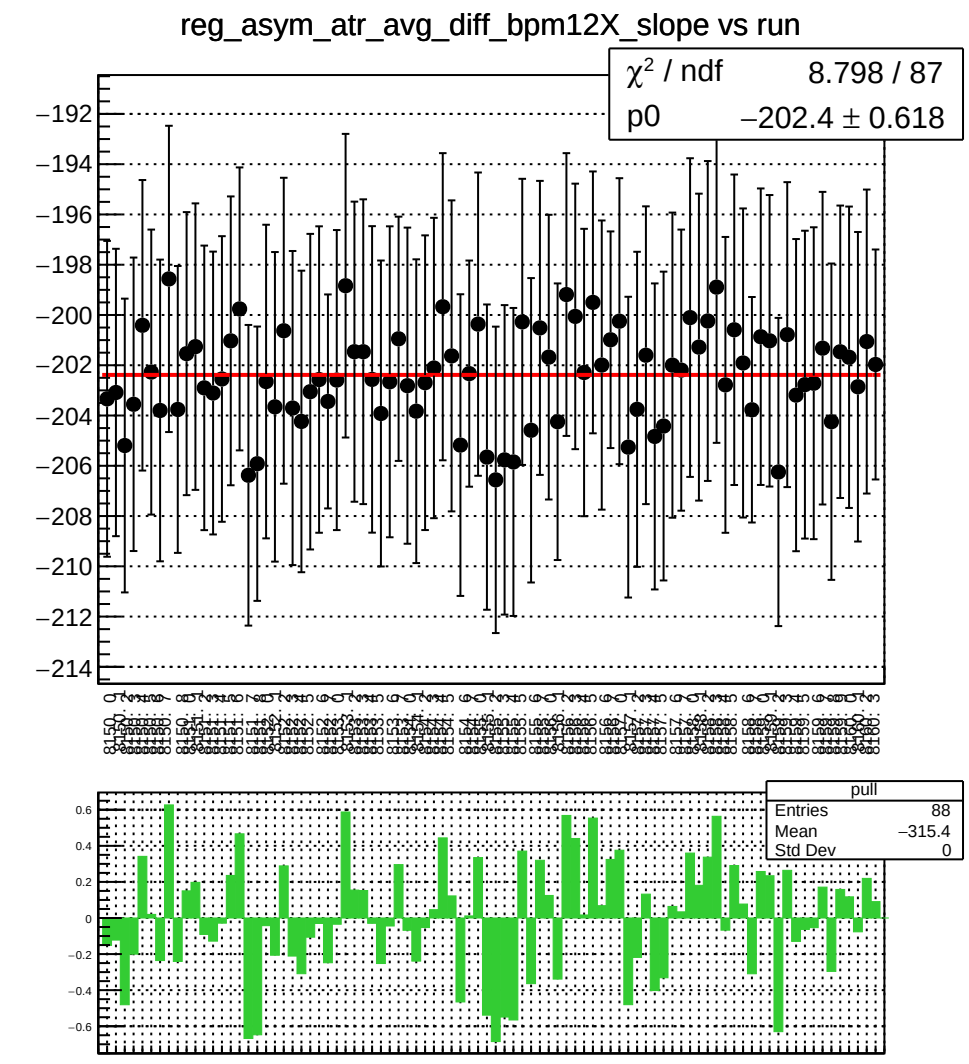

pull1D
Entries 88
Mean −0.002241
Std Dev 0.2332
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

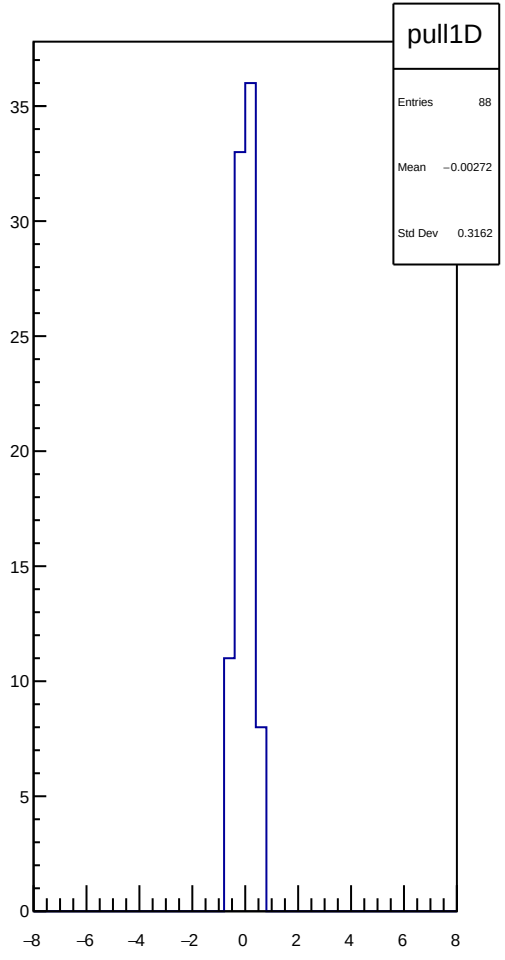

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.861 / 87
p0 138.3 ± 12.32
pull
Entries 88
Mean −60.33
Std Dev 0
pull1D
Entries 88
Mean 0.001676
Std Dev 0.235

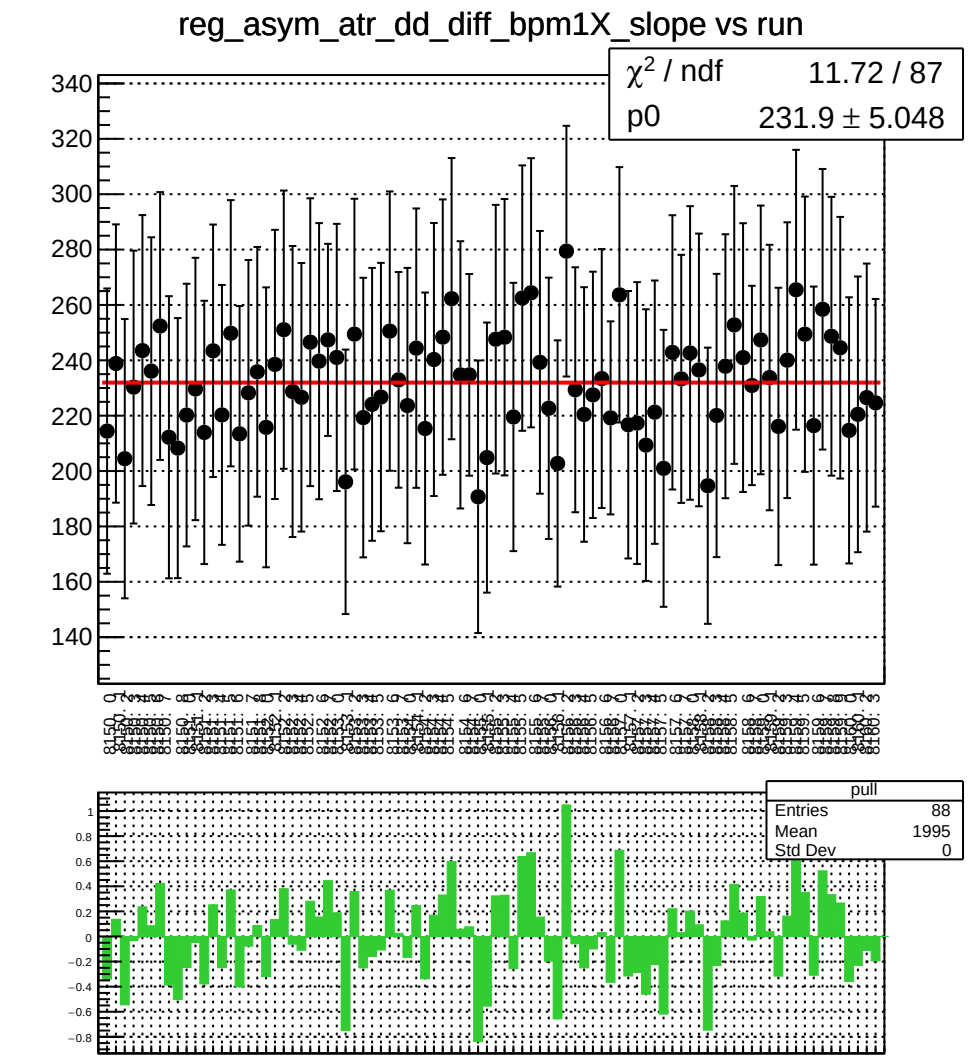

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.591 / 87
p0 370.6 ± 6.665
pull
Entries 88
Mean 88.55
Std Dev 114.5
pull1D
Entries 88
Mean 0.001519
Std Dev 0.2284

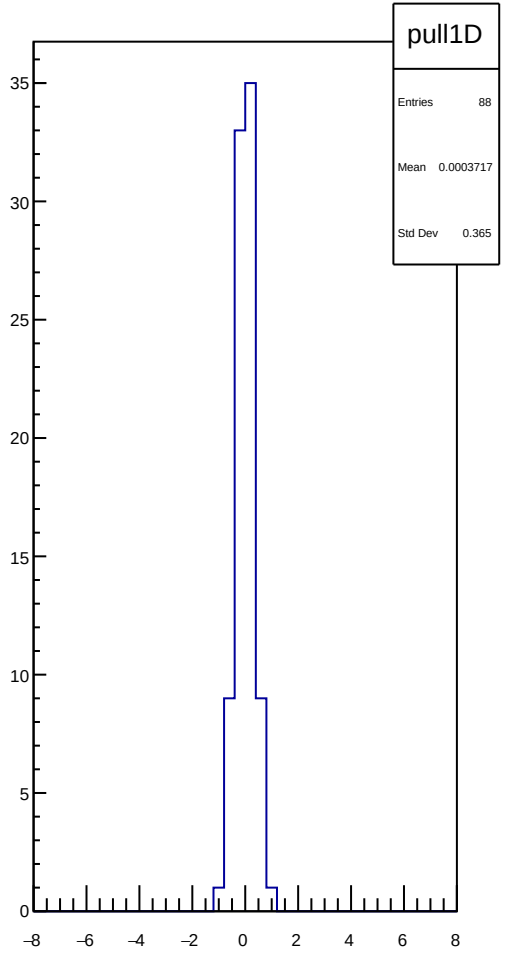

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.805 / 87
p0 −70.35 ± 13.2
100
0
−100
−200
−300
pull
Entries 88
Mean −0.2705
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

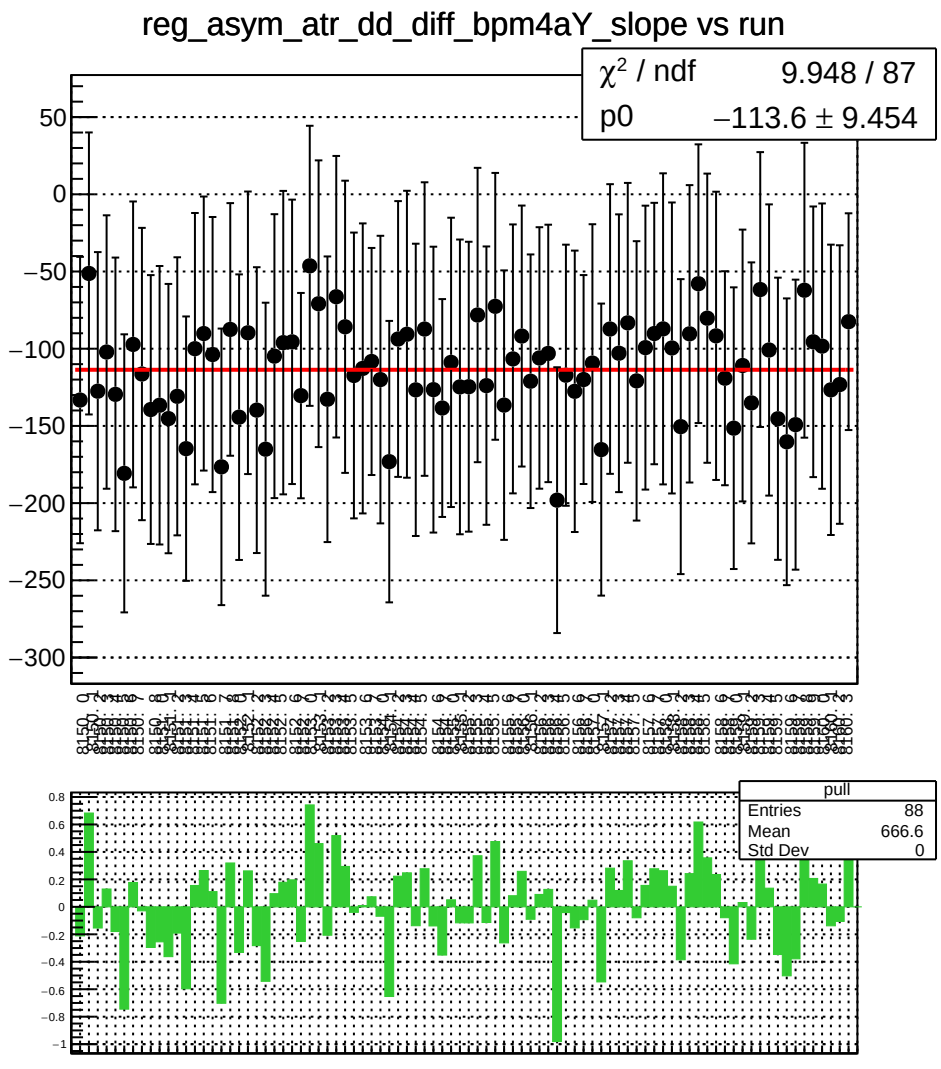

pull1D
Entries 88
Mean −0.001851
Std Dev 0.2337
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

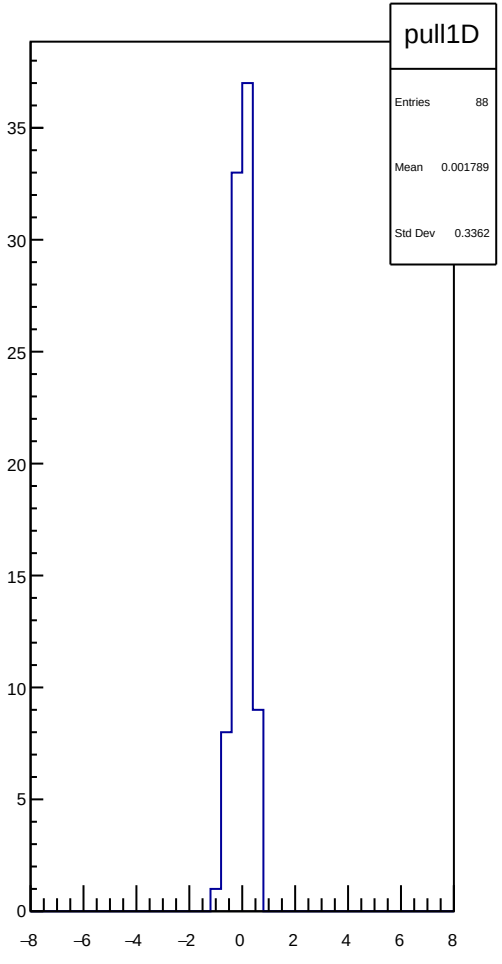

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 8.798 / 87
p0 −202.4 ± 0.618
pull
Entries 88
Mean −315.4
Std Dev 0

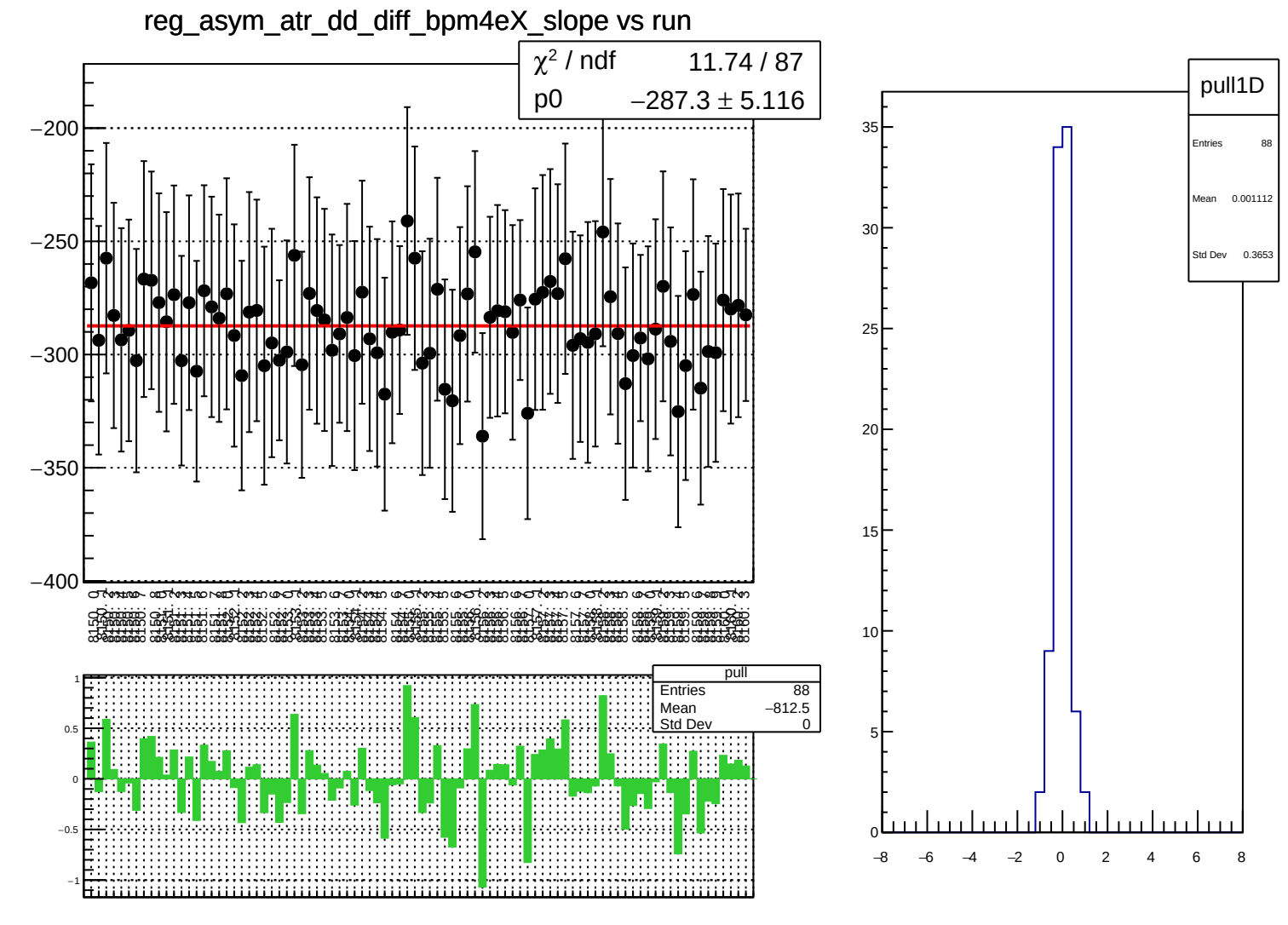

pull1D
Entries 88
Mean −0.00272
Std Dev 0.3162

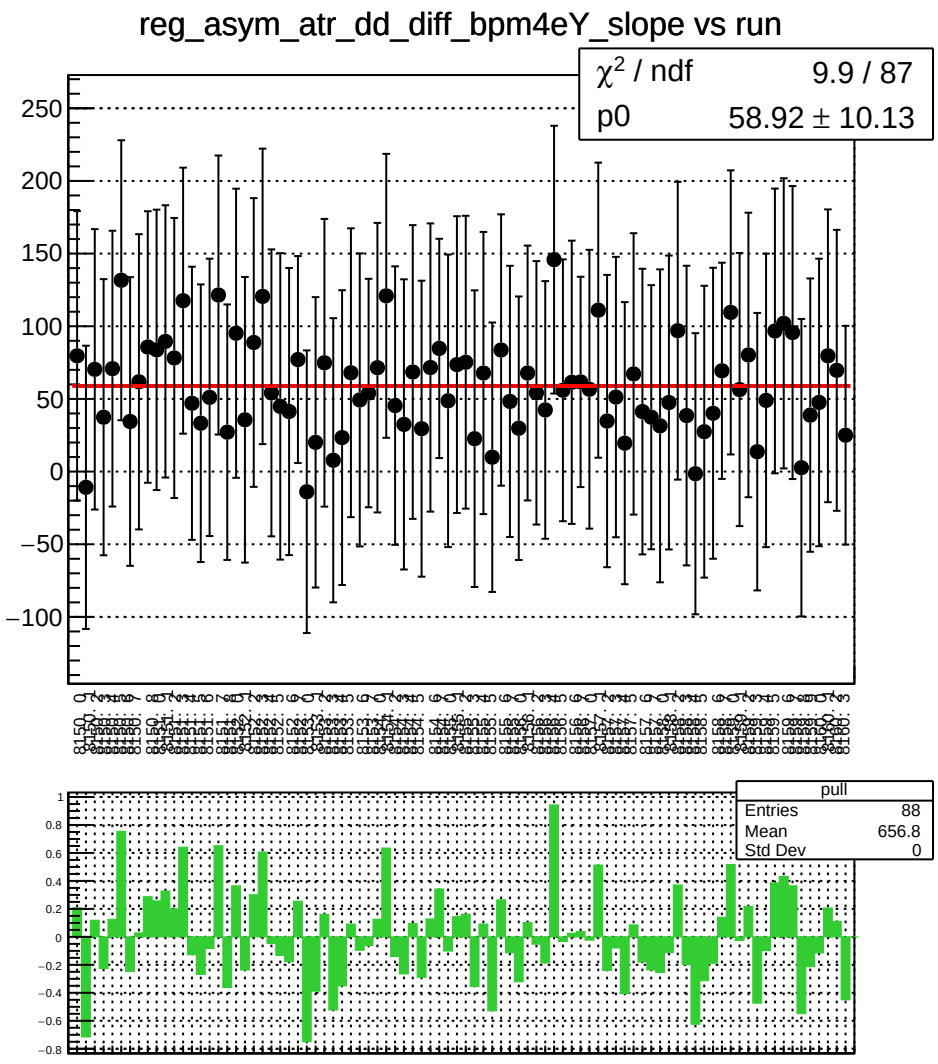

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 11.72 / 87
p0 231.9 ± 5.048
pull
Entries 88
Mean 1995
Std Dev 0

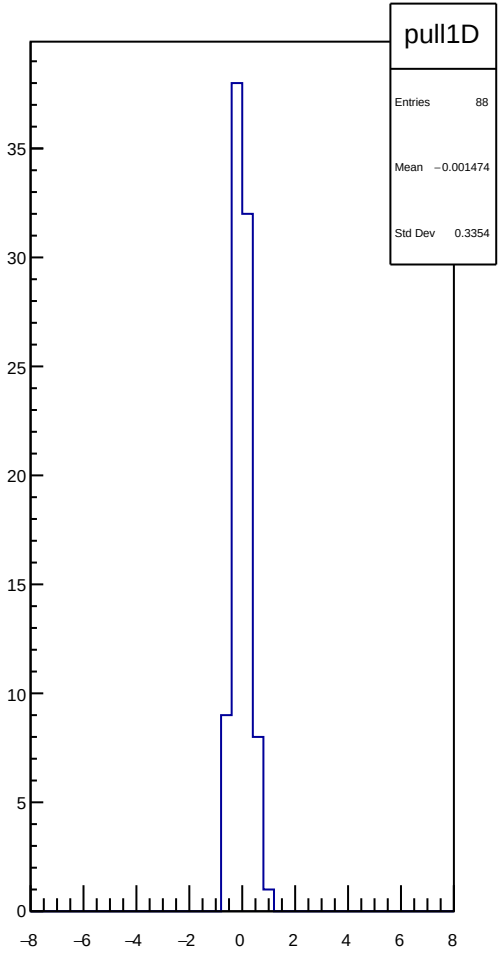

pull1D
Entries 88
Mean 0.0003717
Std Dev 0.365

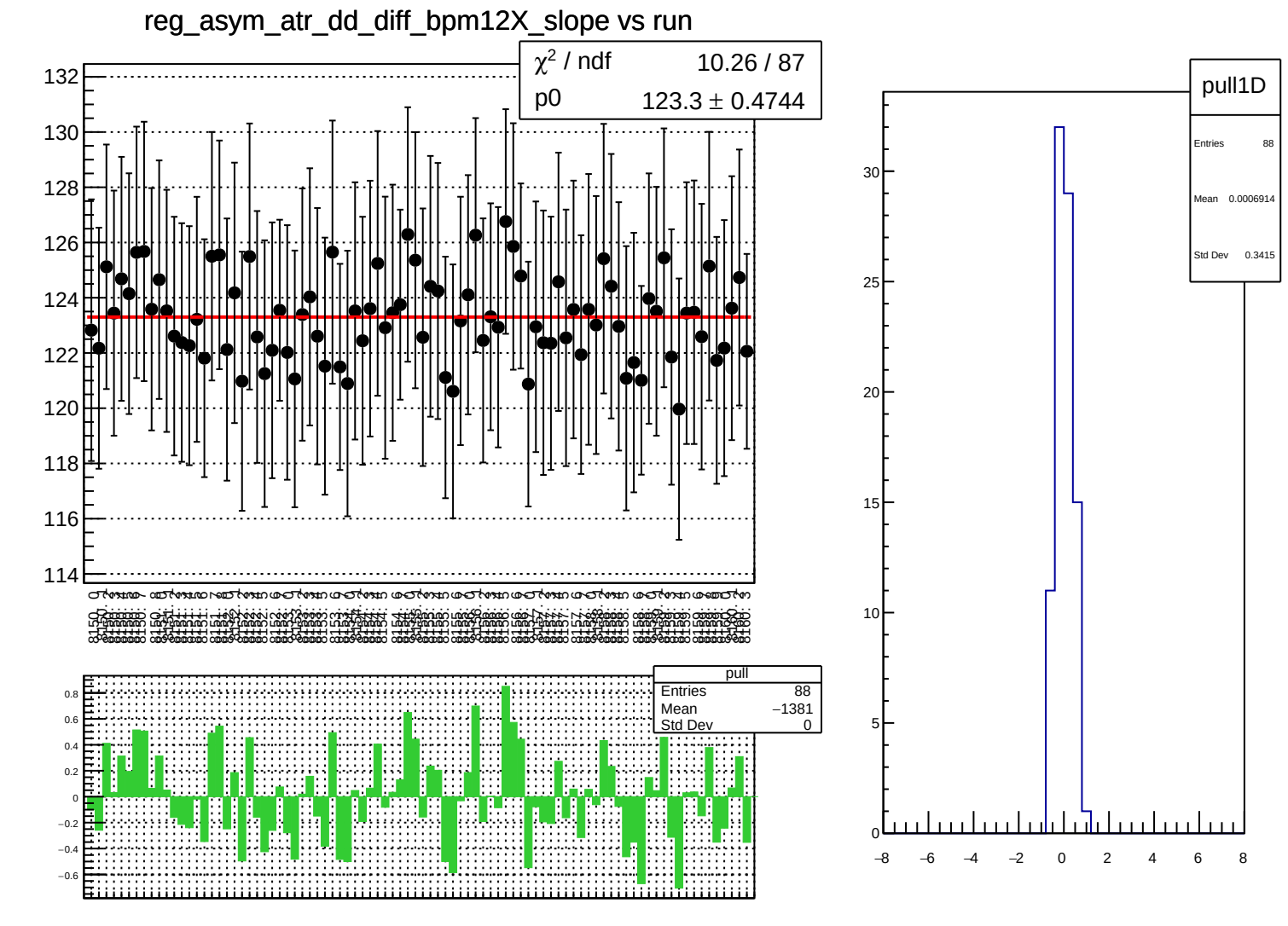

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.948 / 87
p0 −113.6 ± 9.454
pull
Entries 88
Mean 666.6
Std Dev 0

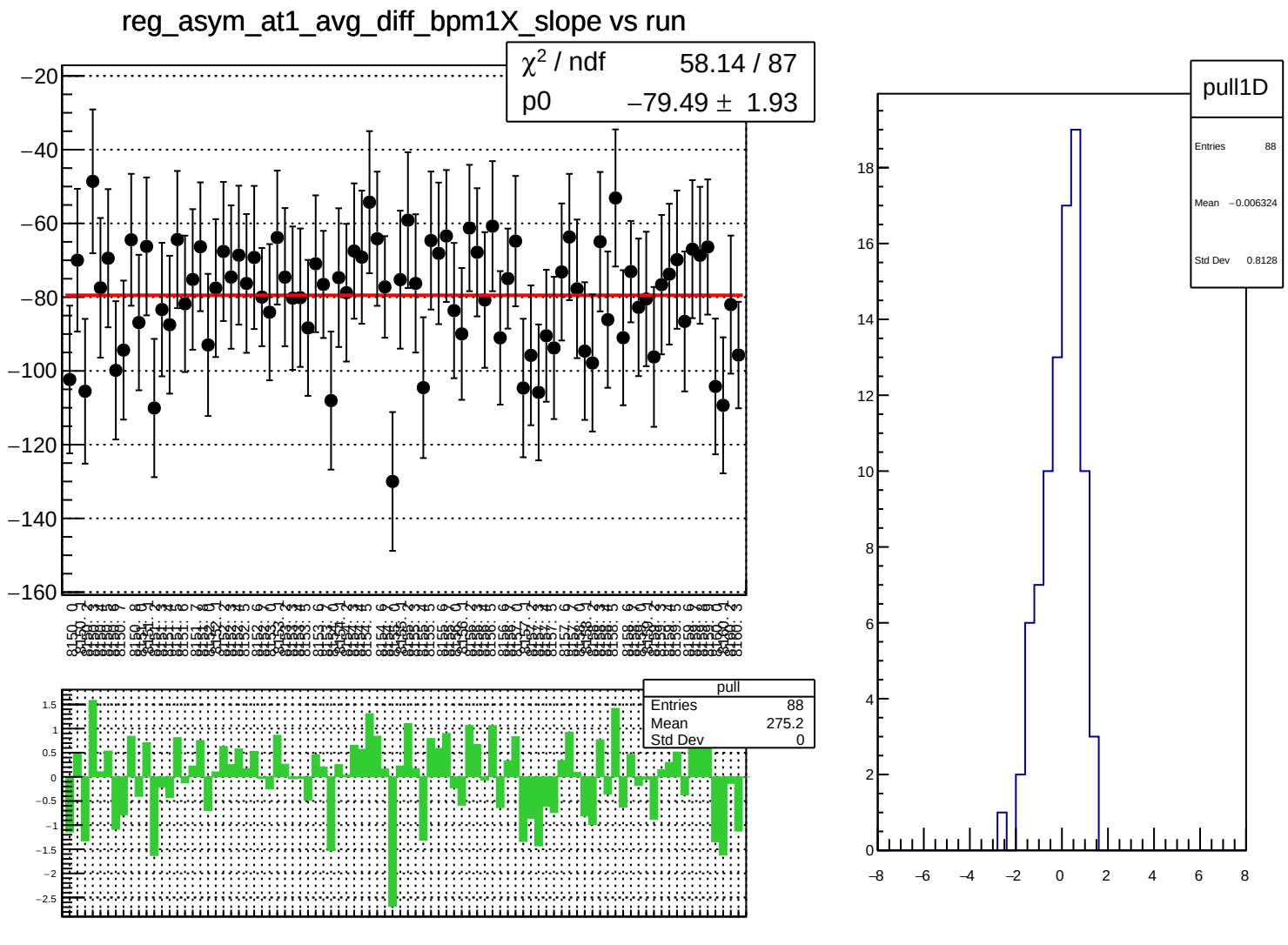

pull1D
Entries 88
Mean 0.001789
Std Dev 0.3362

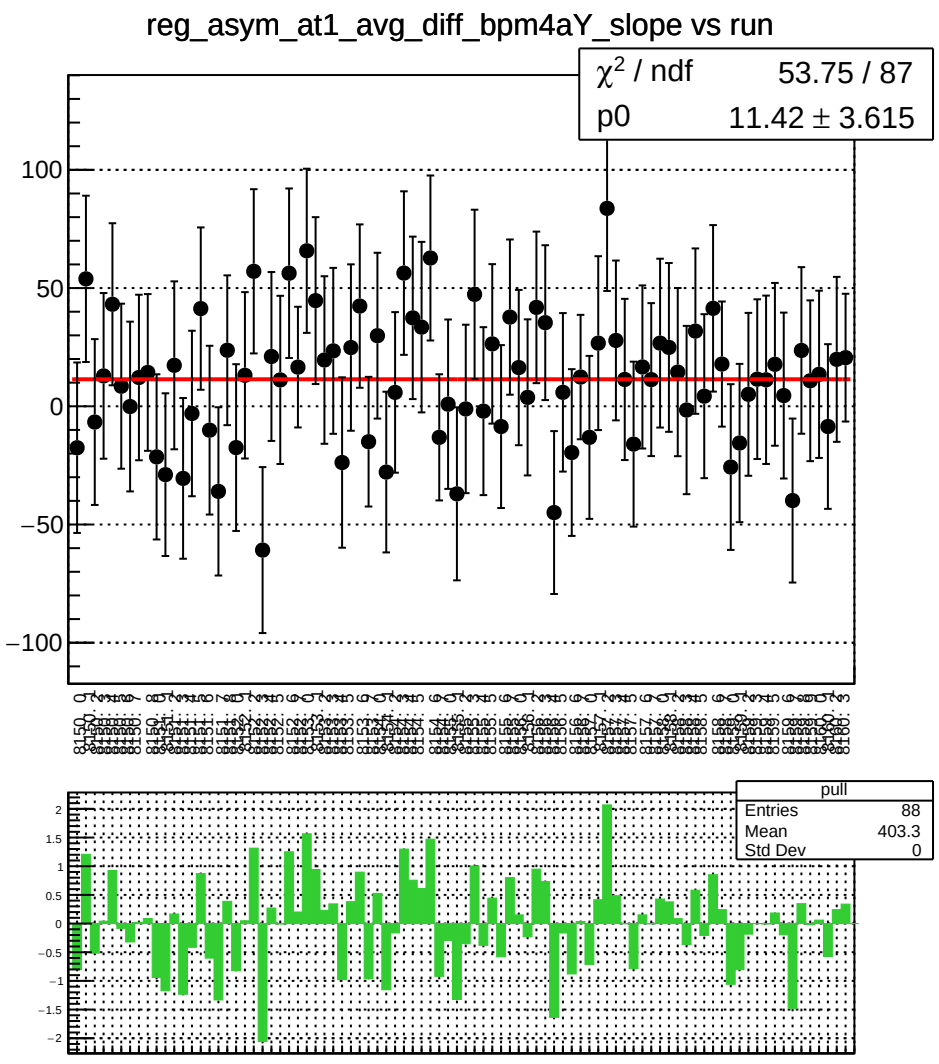

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.74 / 87
p0 −287.3 ± 5.116
−200
−250
−300
−350
−400
pull
Entries 88
Mean −812.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.001112
Std Dev 0.3653
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

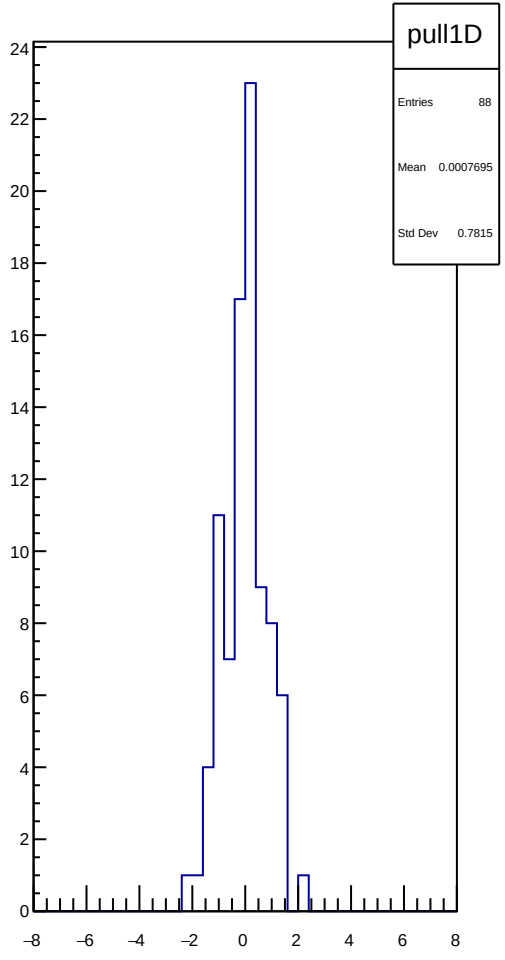

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 9.9 / 87
p0 58.92 ± 10.13
pull
Entries 88
Mean 656.8
Std Dev 0

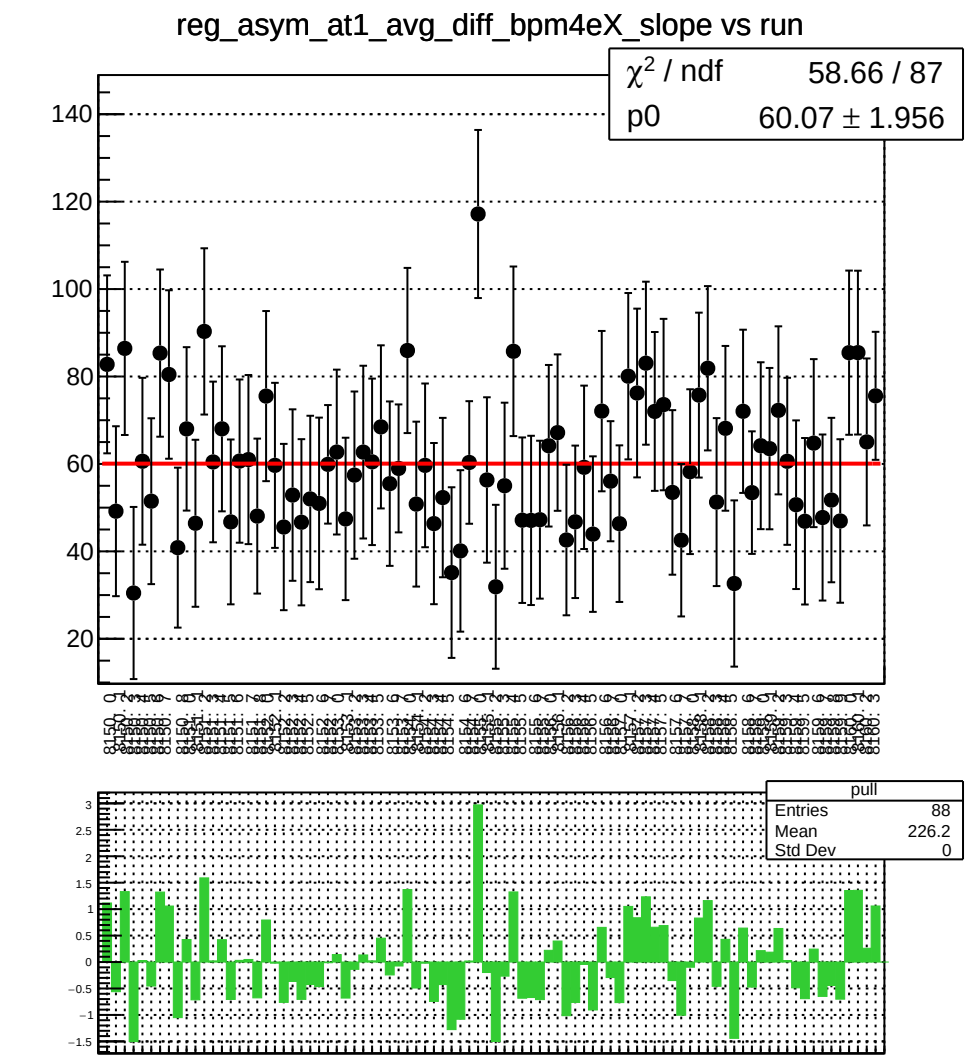

pull1D
Entries 88
Mean −0.001474
Std Dev 0.3354

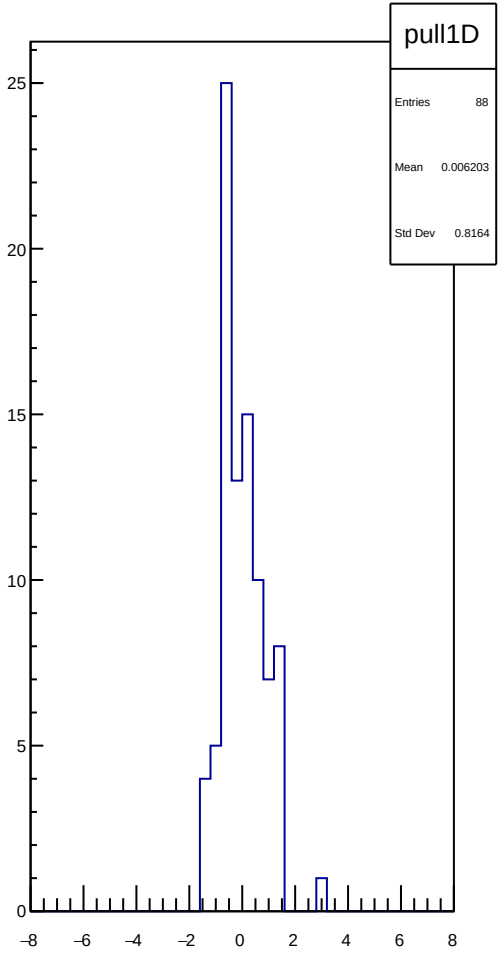

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 10.26 / 87
p0 123.3 ± 0.4744
pull
Entries 88
Mean −1381
Std Dev 0
pull1D
Entries 88
Mean 0.0006914
Std Dev 0.3415

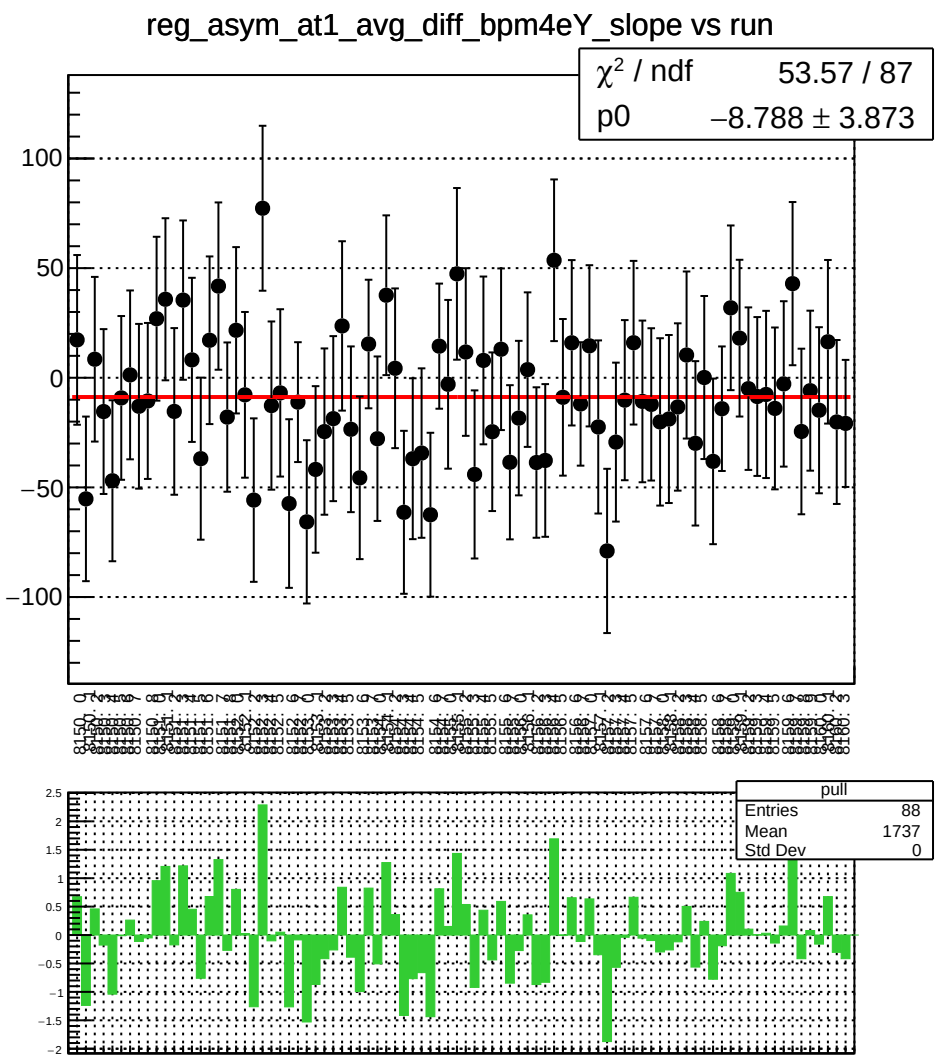

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 58.14 / 87
p0 −79.49 ± 1.93
pull
Entries 88
Mean 275.2
Std Dev 0
pull1D
Entries 88
Mean −0.006324
Std Dev 0.8128

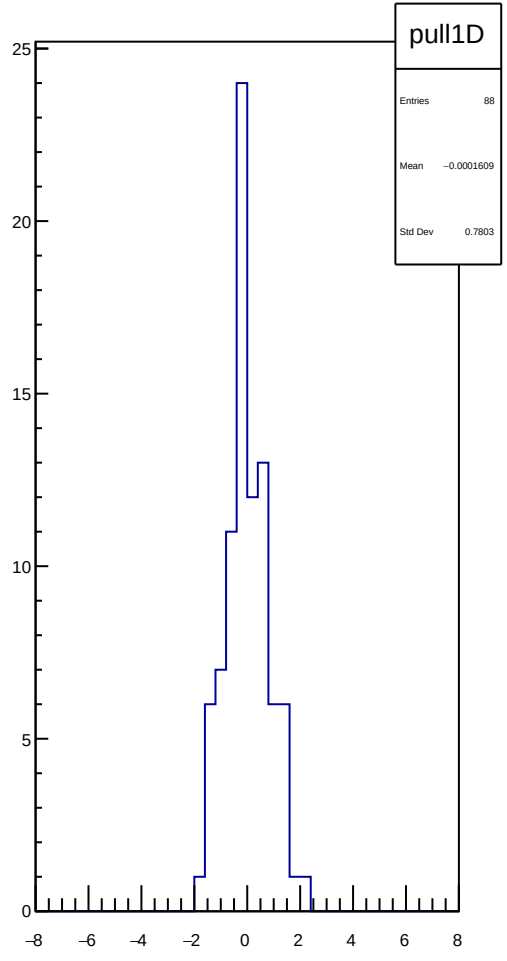

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 53.75 / 87
p0 11.42 ± 3.615
100
50
0
−50
−100
pull
Entries 88
Mean 403.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

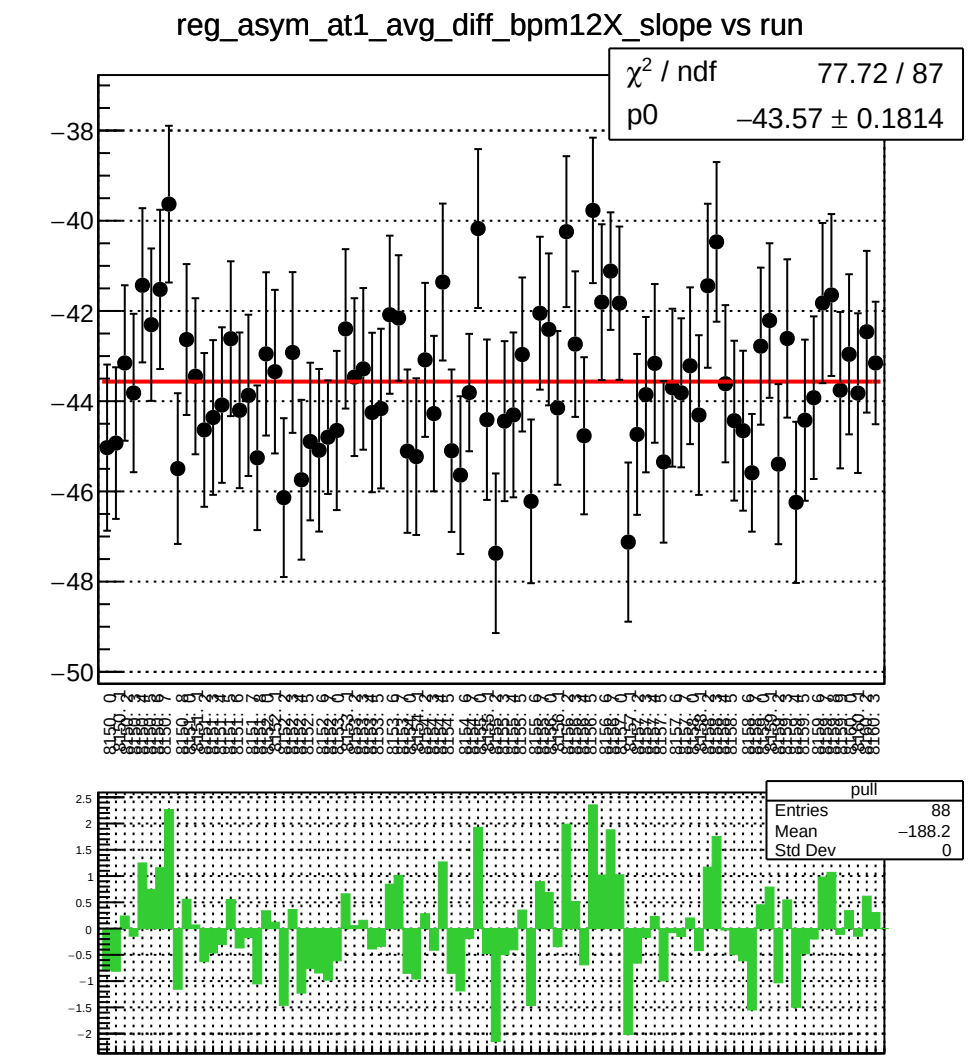

pull1D
Entries 88
Mean 0.0007695
Std Dev 0.7815
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

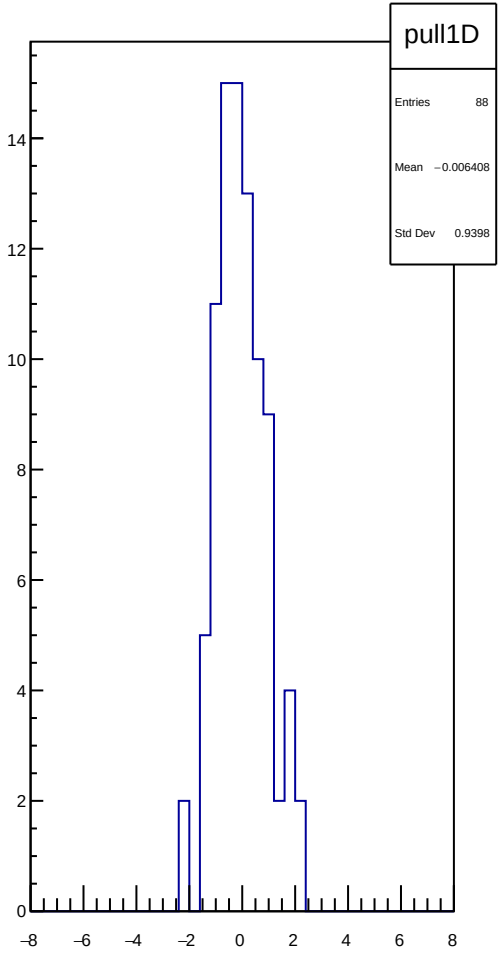

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.66 / 87
p0 60.07 ± 1.956
pull
Entries 88
Mean 226.2
Std Dev 0

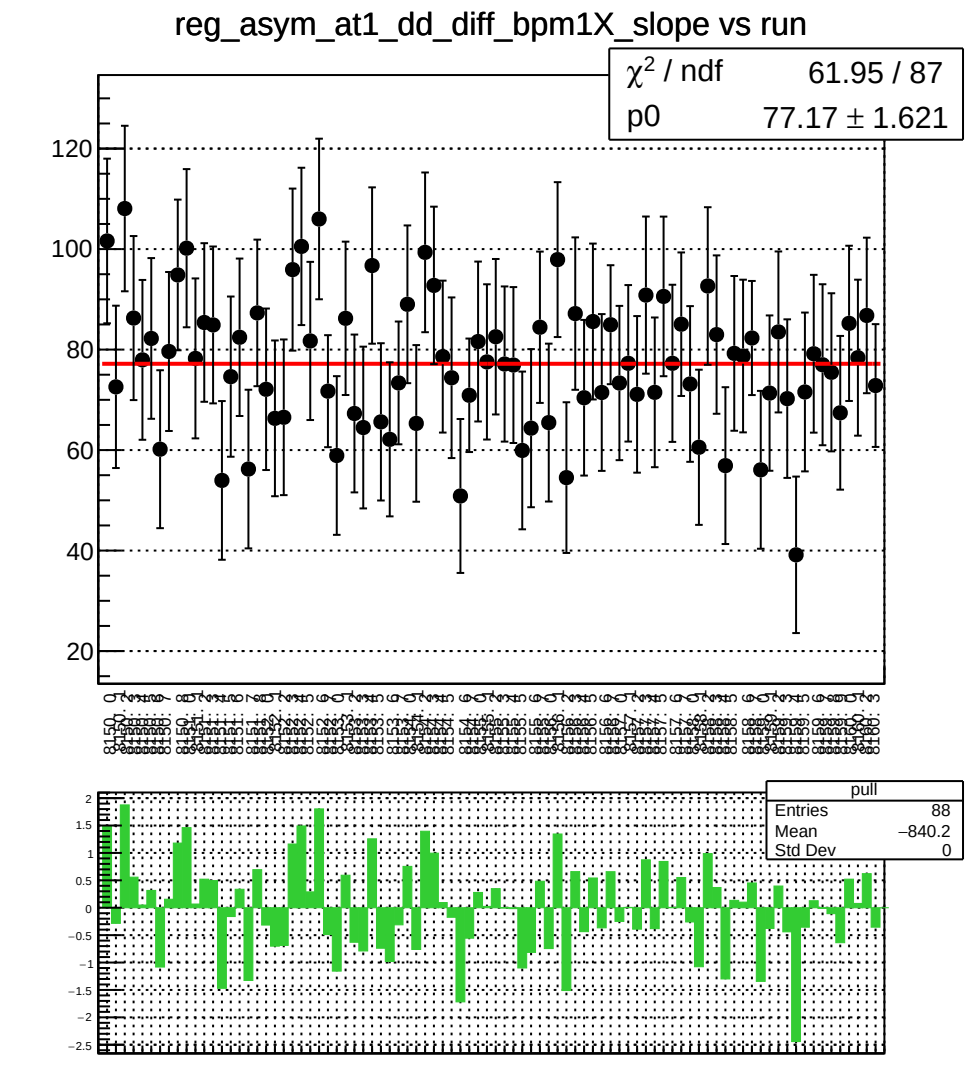

pull1D
Entries 88
Mean 0.006203
Std Dev 0.8164

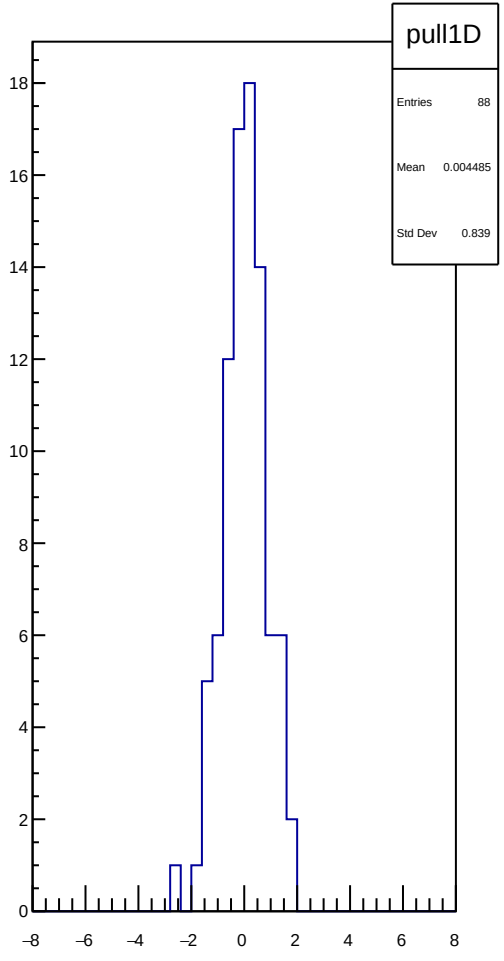

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 53.57 / 87
p0 −8.788 ± 3.873
100
50
0
−50
−100
pull
Entries 88
Mean 1737
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

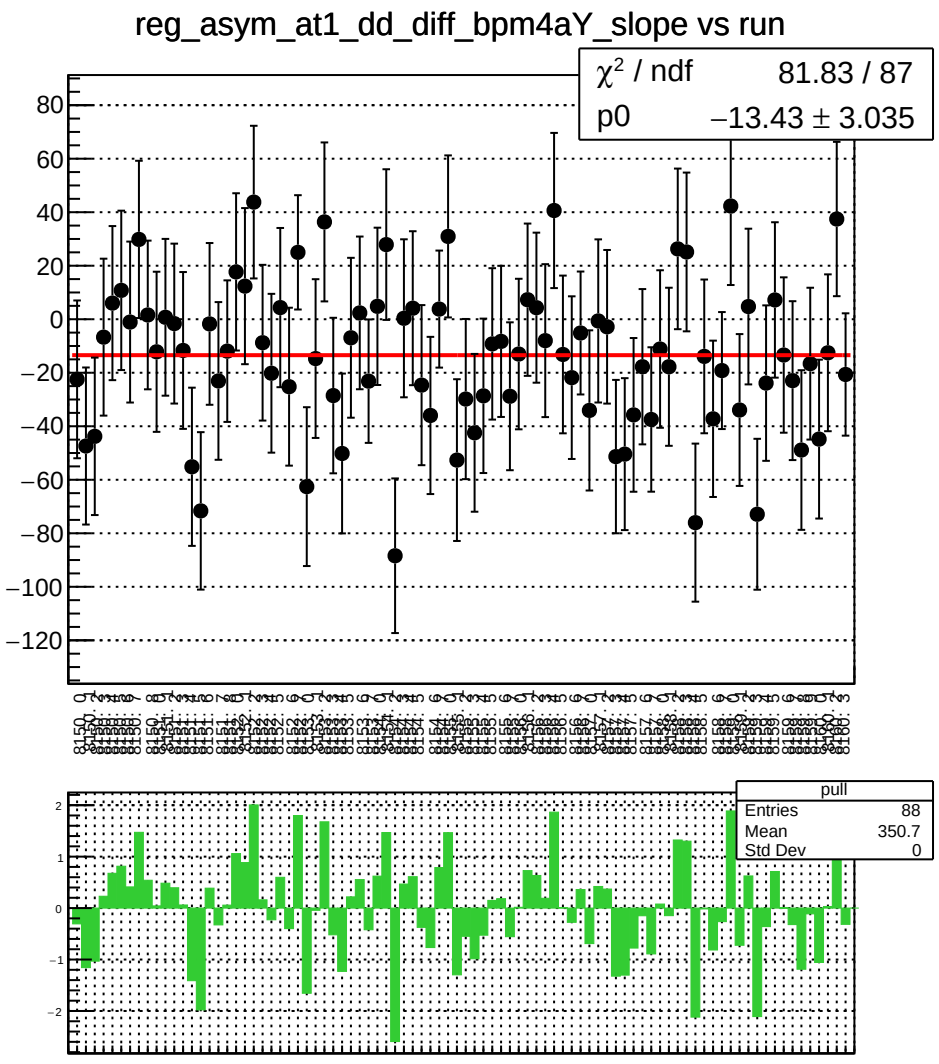

pull1D
Entries 88
Mean −0.0001609
Std Dev 0.7803
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

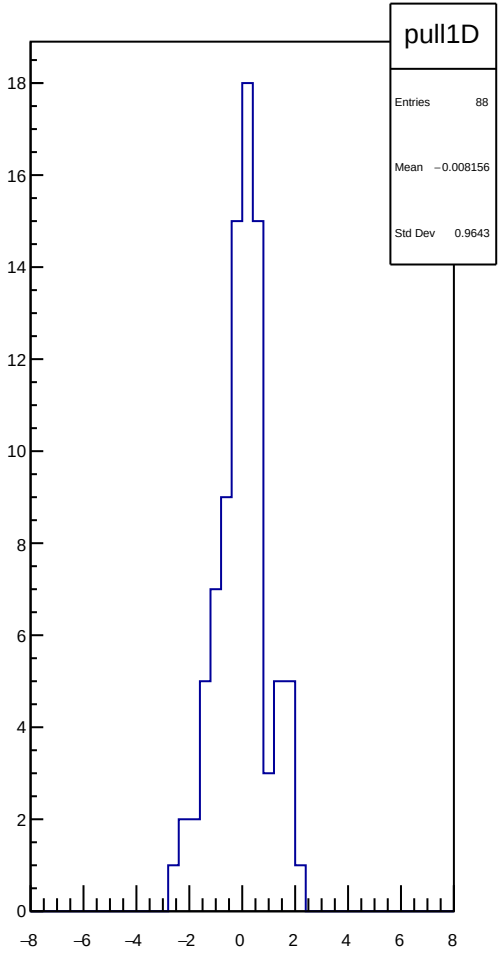

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 77.72 / 87
p0 −43.57 ± 0.1814
pull
Entries 88
Mean −188.2
Std Dev 0

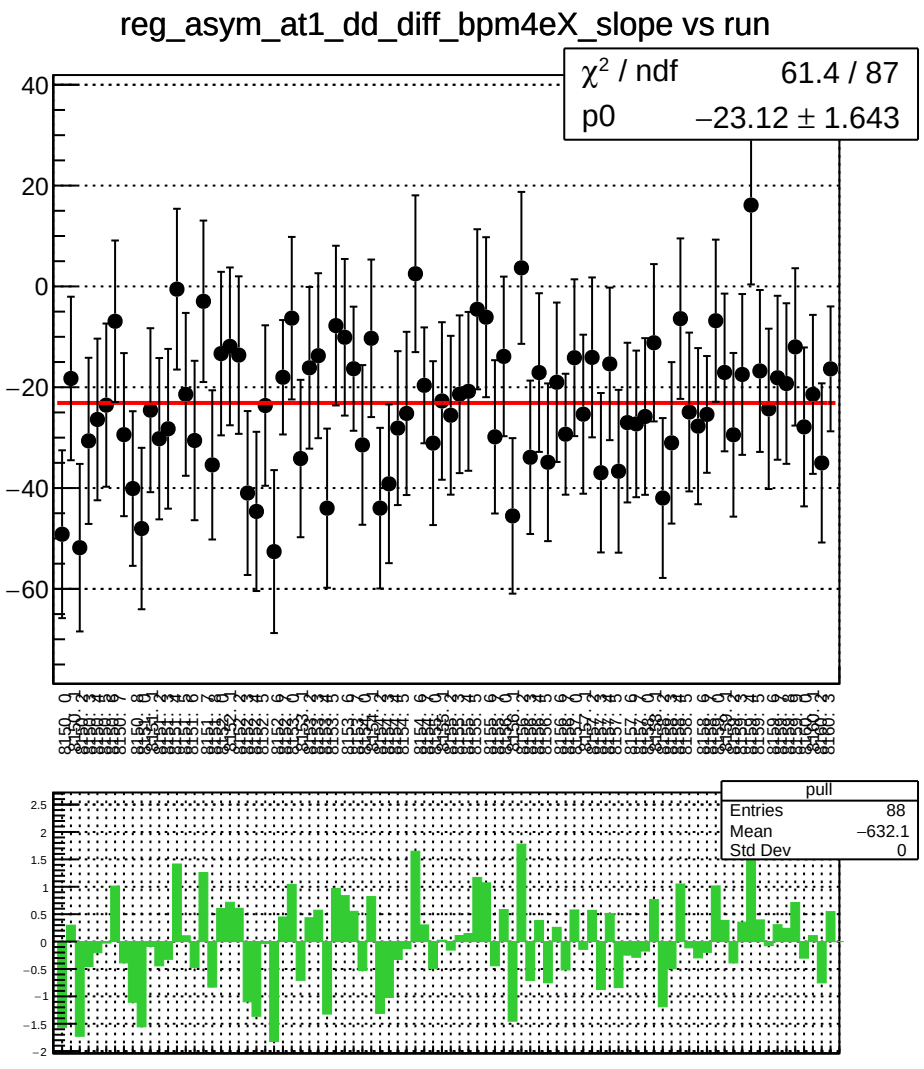

pull1D
Entries 88
Mean −0.006408
Std Dev 0.9398

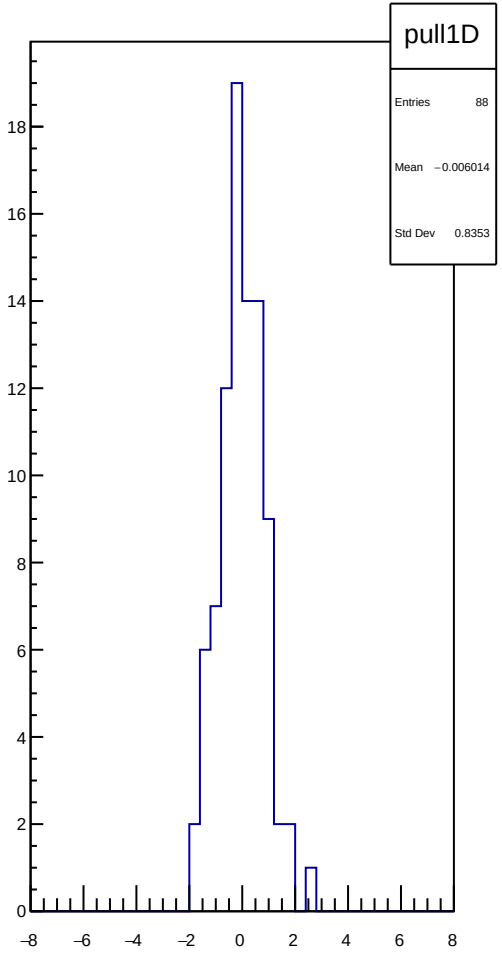

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ^2 / ndf 61.95 / 87
p0 77.17 ± 1.621
120
100
80
60
40
20
pull
Entries 88
Mean –840.2
Std Dev 0
2
1.5
1
0.5
0
–0.5
–1
–1.5
–2
–2.5

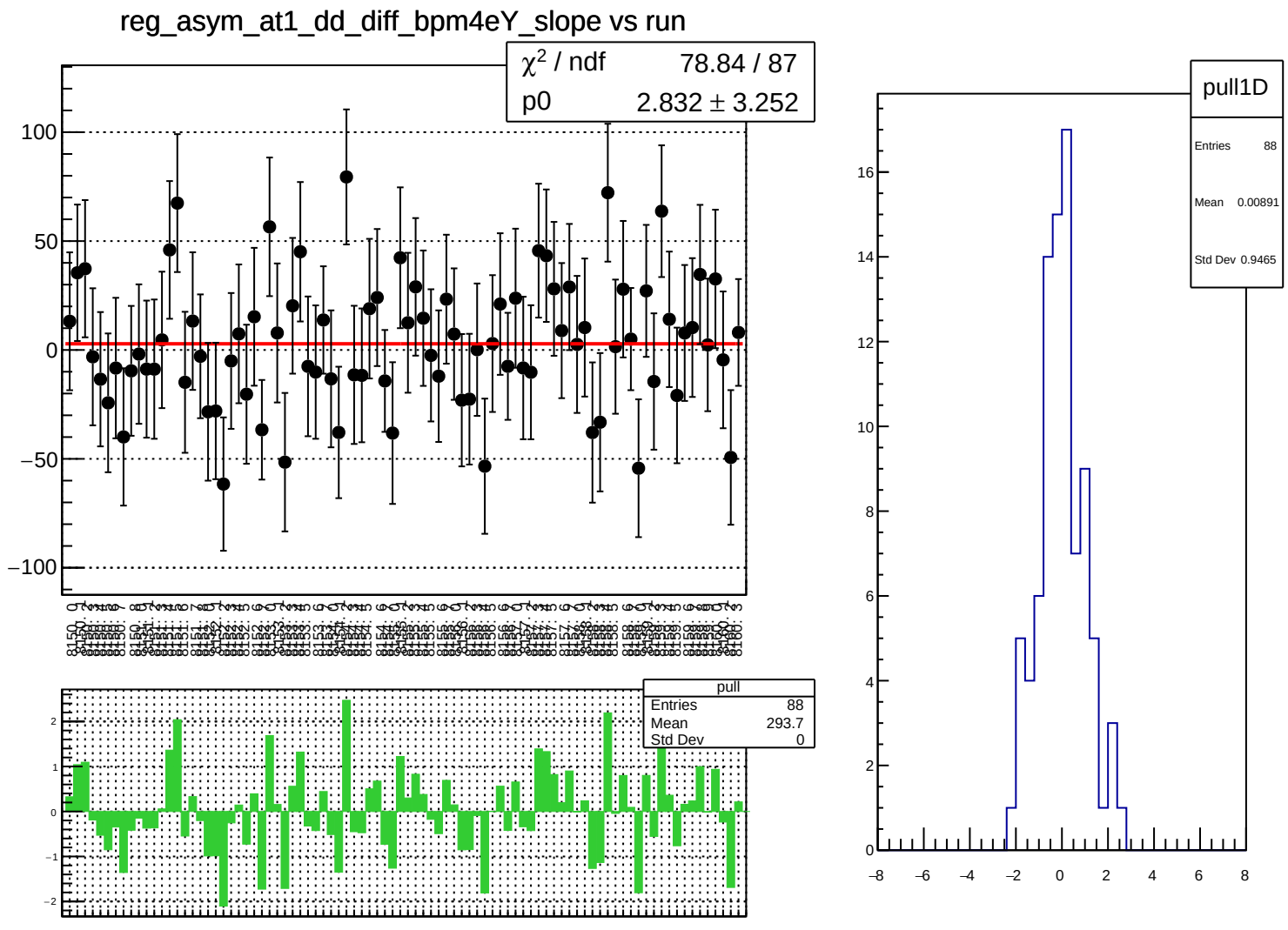

pull1D
Entries 88
Mean 0.004485
Std Dev 0.839
18
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

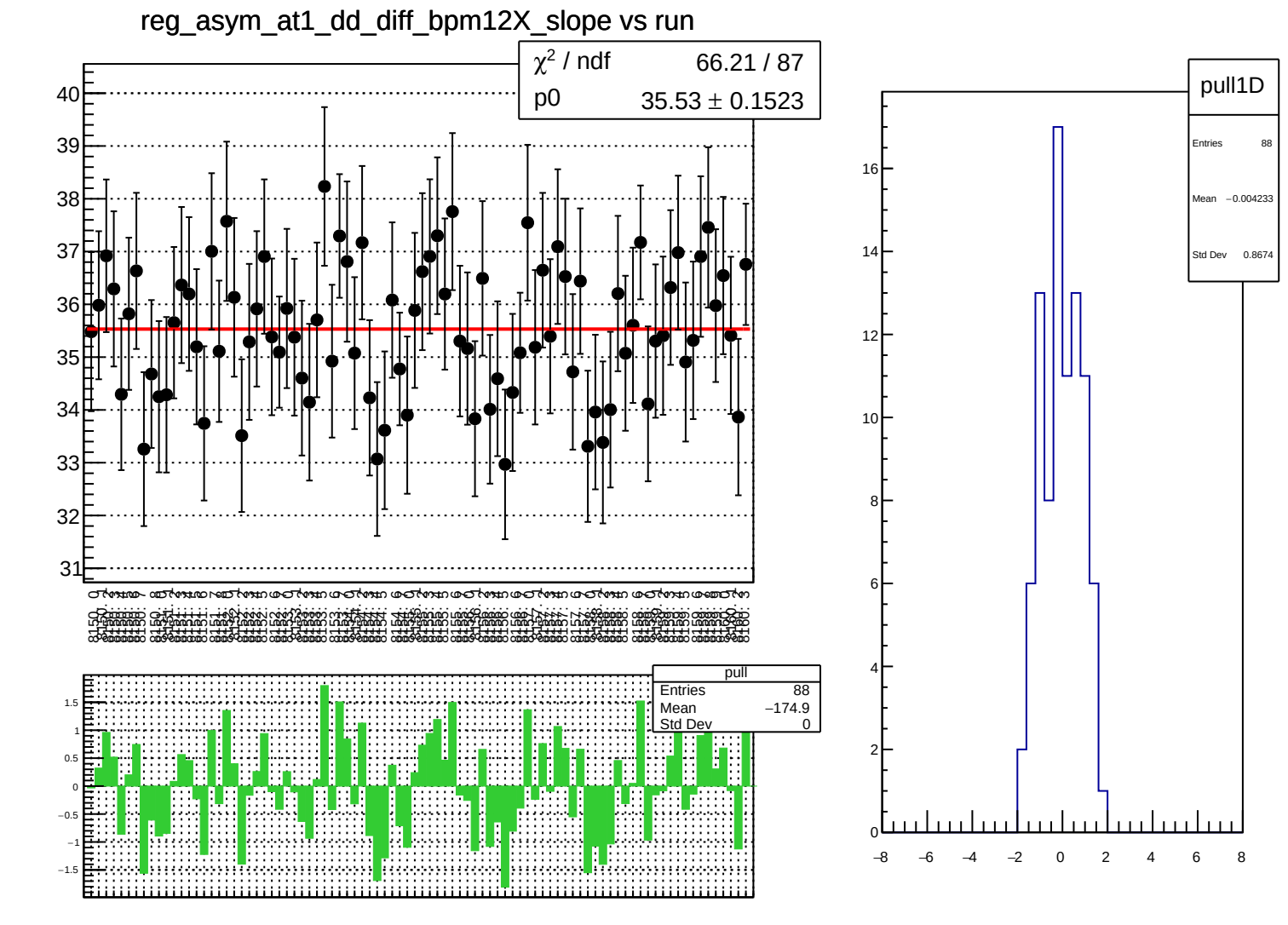

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.83 / 87
p0 −13.43 ± 3.035
pull
Entries 88
Mean 350.7
Std Dev 0

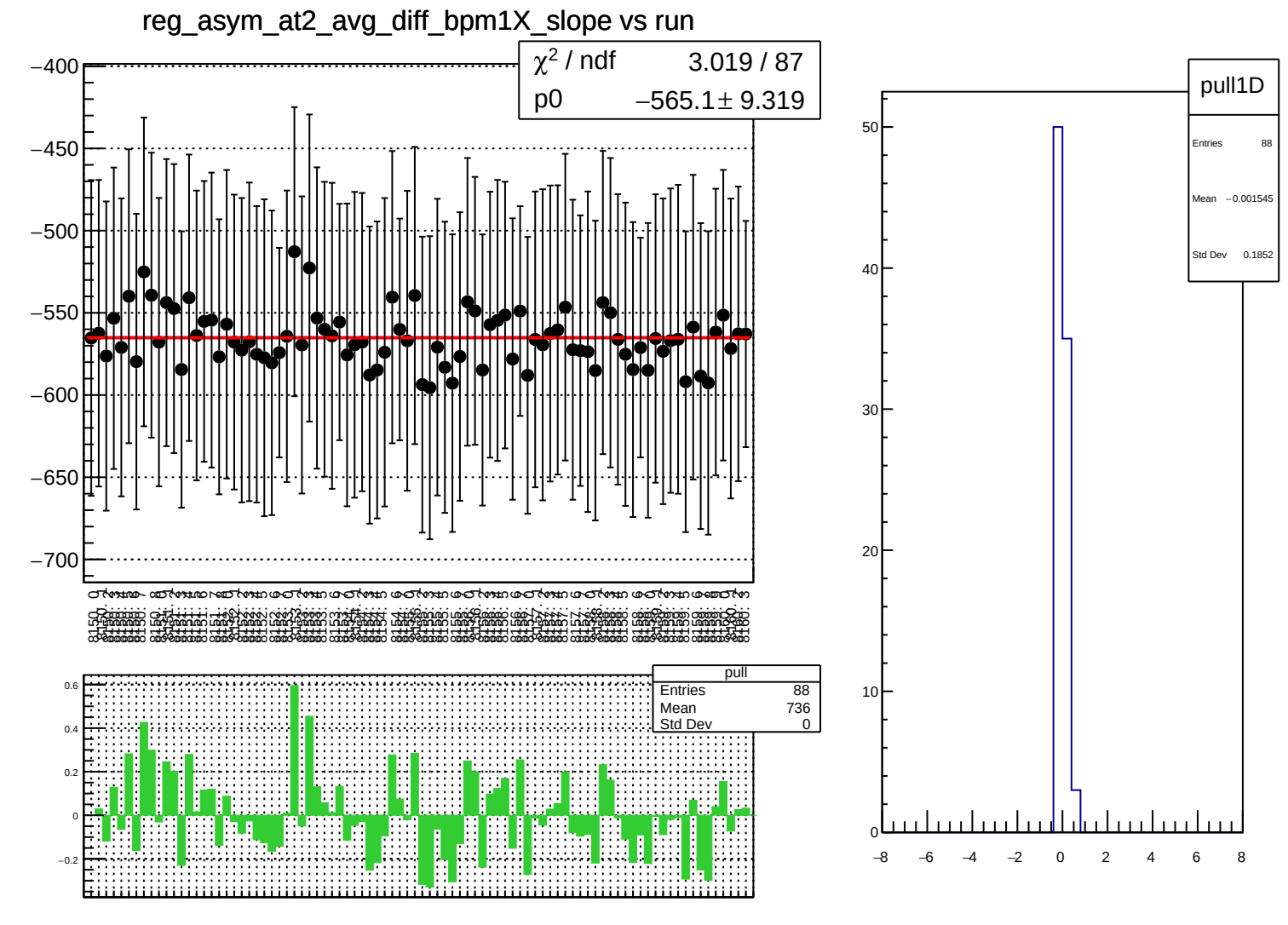

pull1D
Entries 88
Mean −0.008156
Std Dev 0.9643

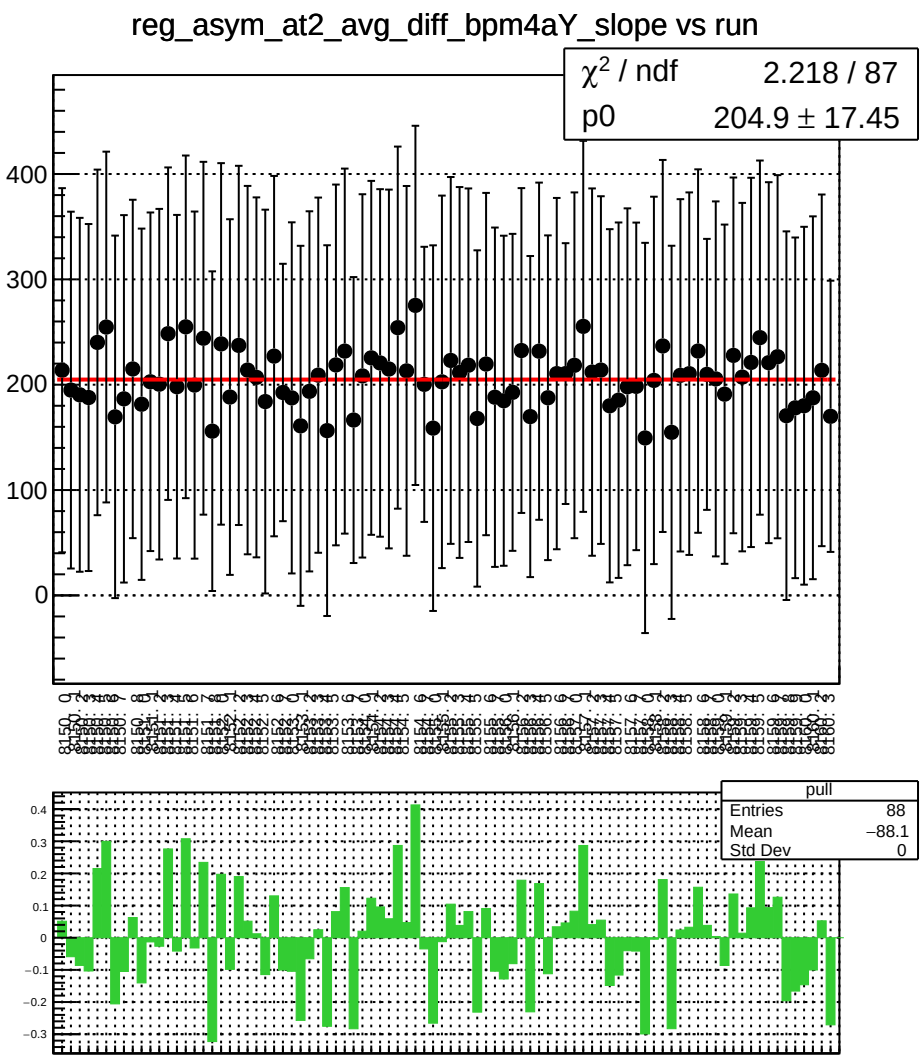

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.4 / 87
p0 −23.12 ± 1.643
pull
Entries 88
Mean −632.1
Std Dev 0

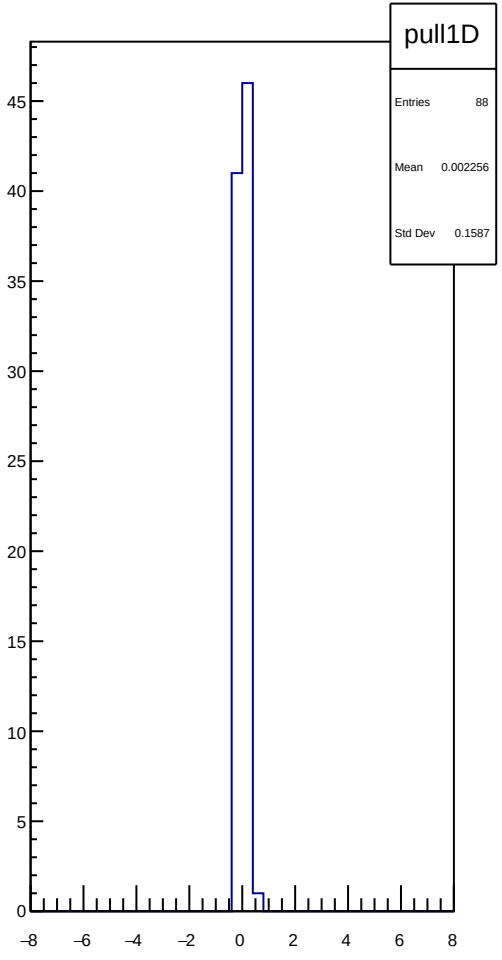

pull1D
Entries 88
Mean −0.006014
Std Dev 0.8353

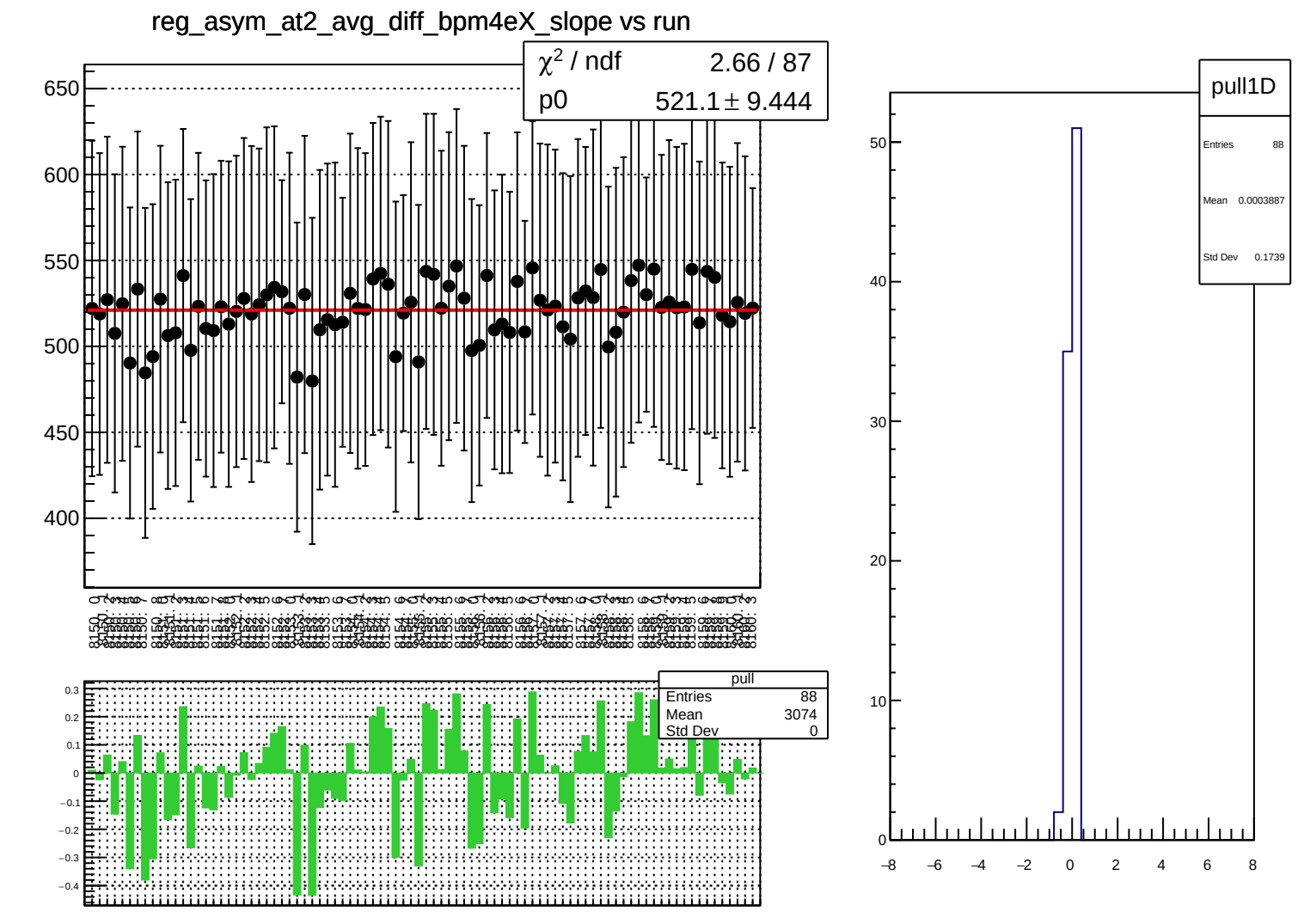

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.84 / 87
p0 2.832 ± 3.252
100
50
0
−50
−100
pull
Entries 88
Mean 293.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.00891
Std Dev 0.9465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

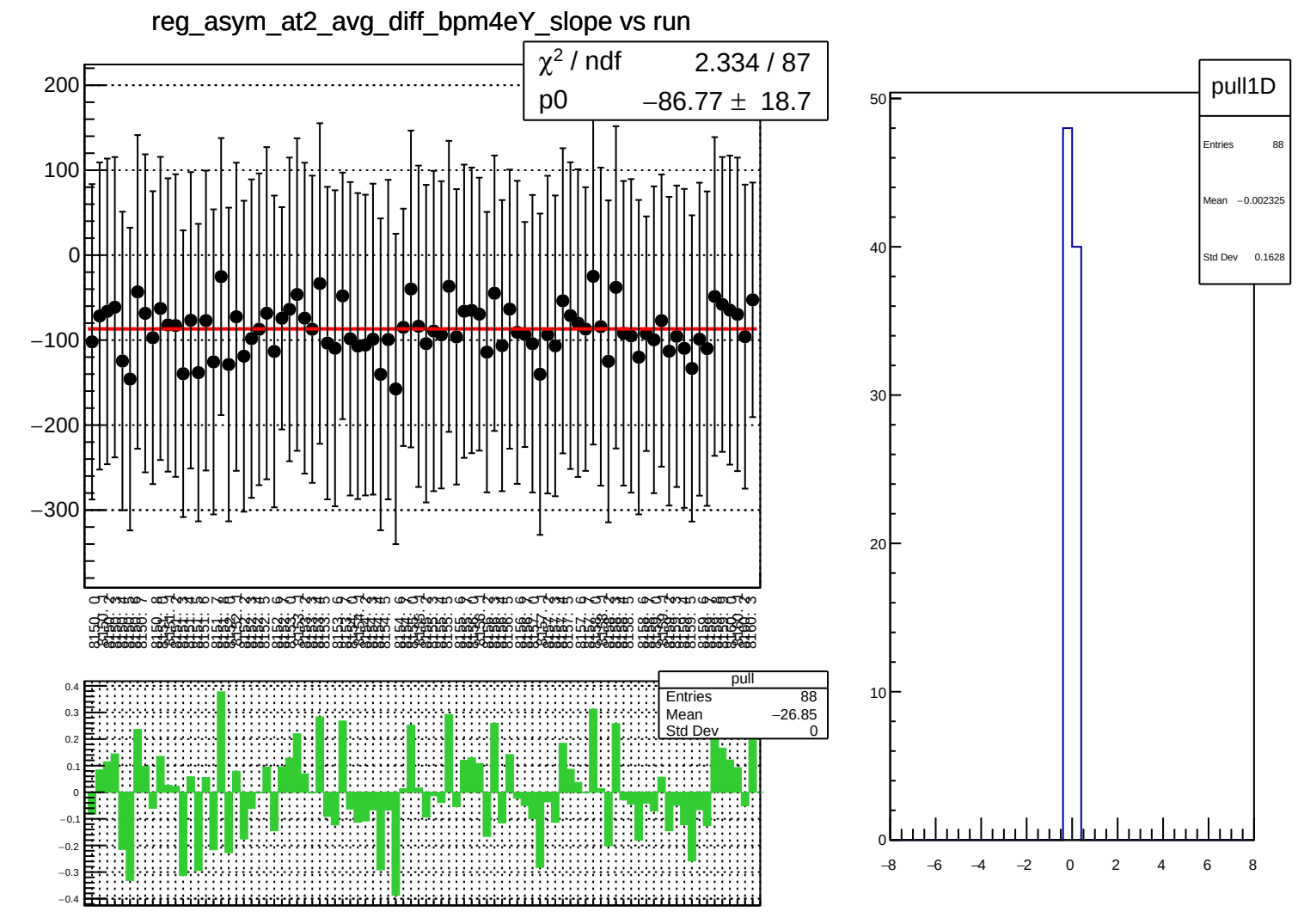

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 66.21 / 87
p0 35.53 ± 0.1523
pull
Entries 88
Mean −174.9
Std Dev 0
pull1D
Entries 88
Mean −0.004233
Std Dev 0.8674

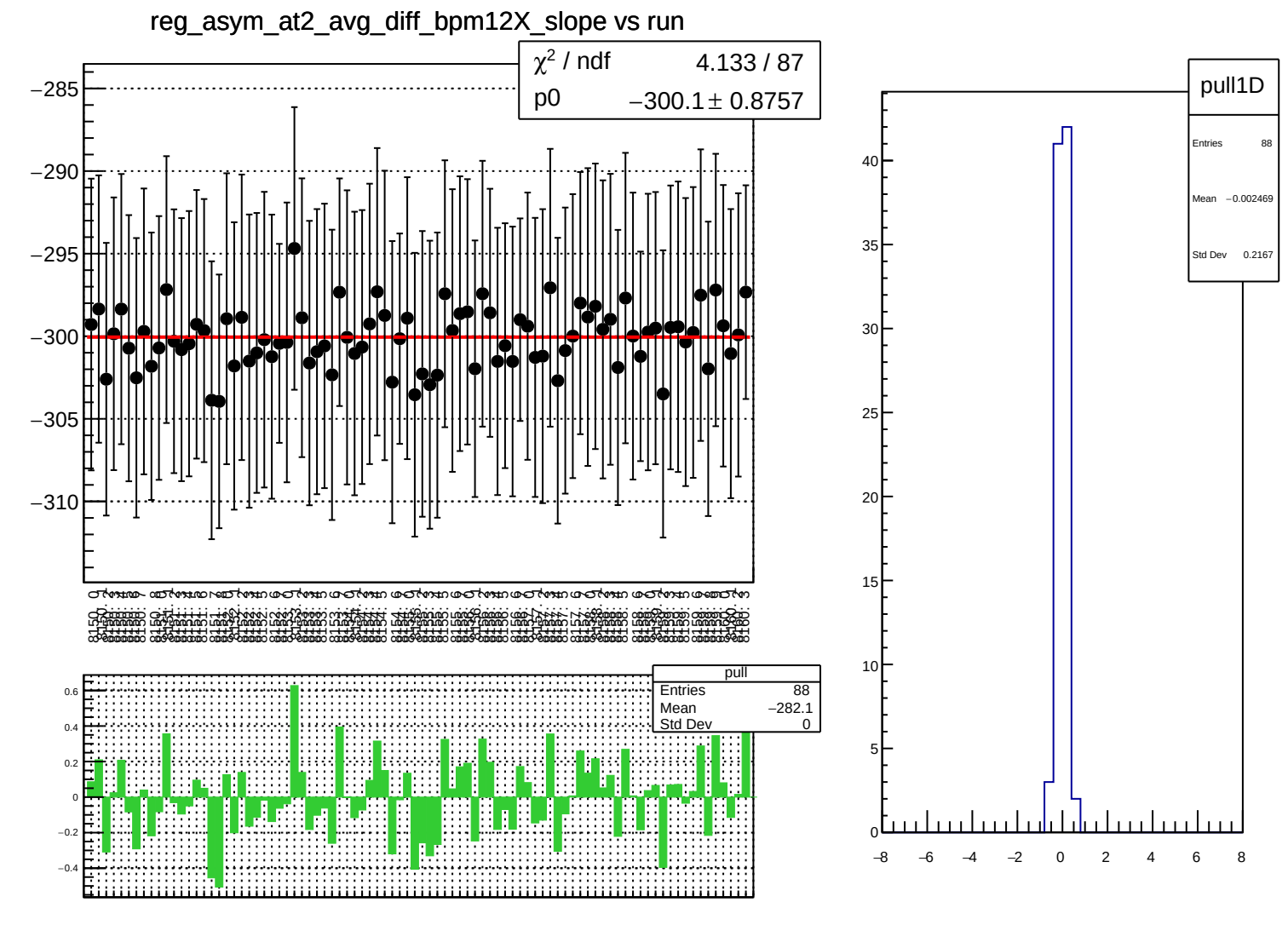

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.019 / 87
p0 −565.1 ± 9.319
pull
Entries 88
Mean 736
Std Dev 0
pull1D
Entries 88
Mean −0.001545
Std Dev 0.1852

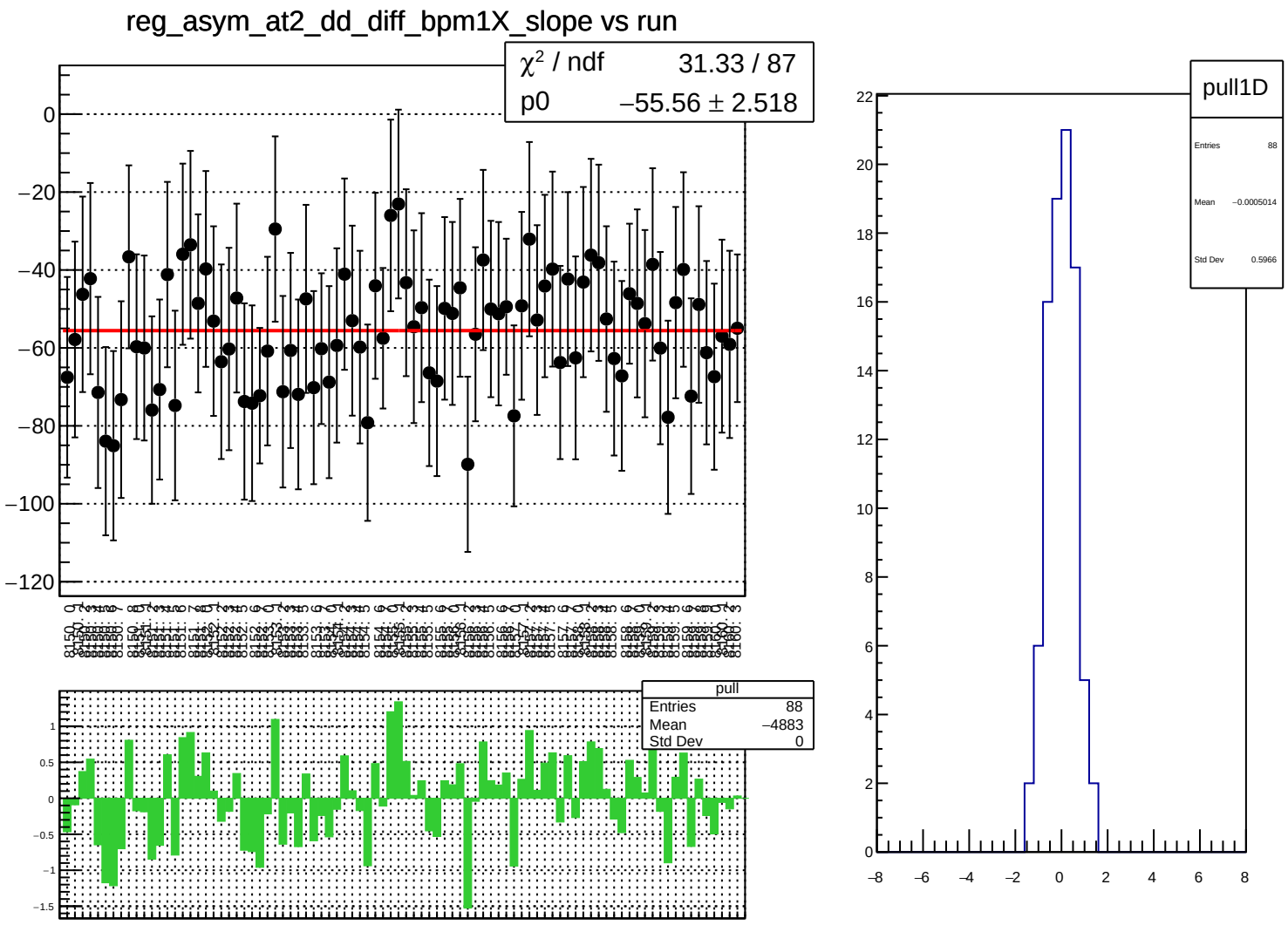

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.218 / 87
p0 204.9 ± 17.45
400
300
200
100
0
pull
Entries 88
Mean −88.1
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

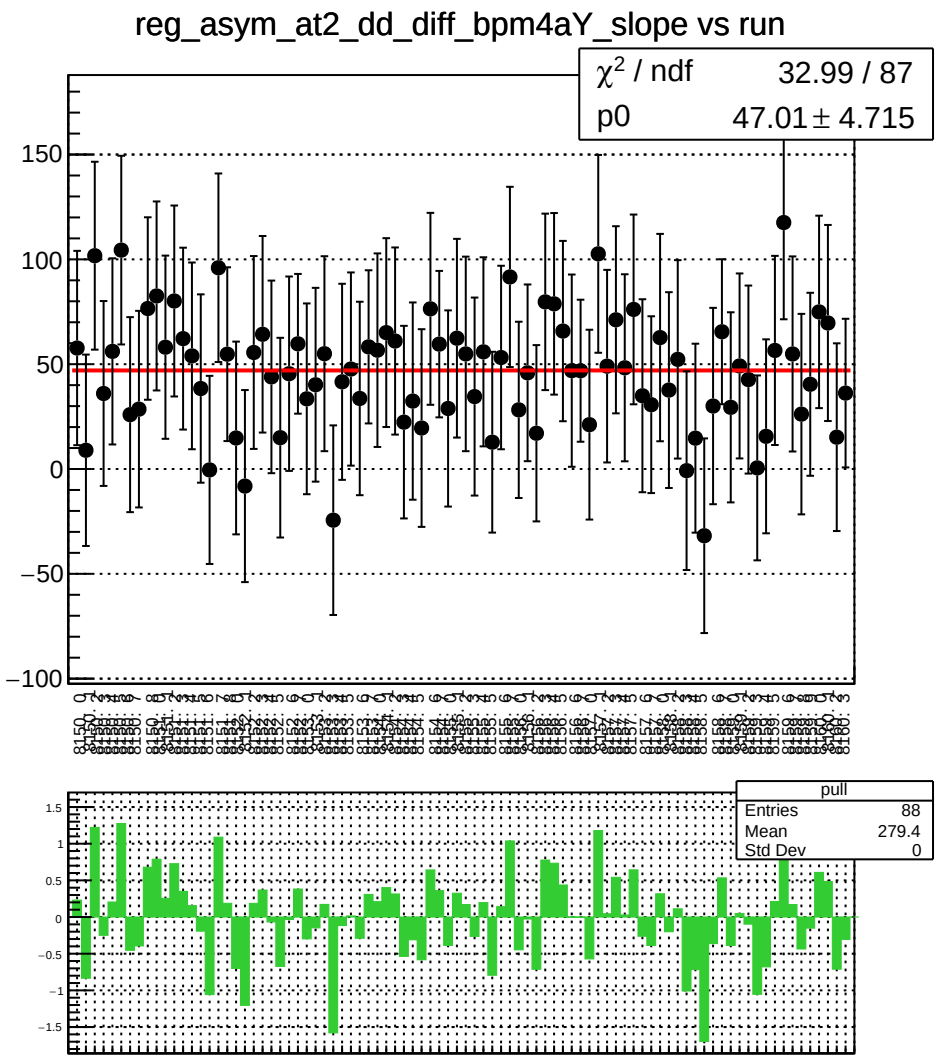

pull1D
Entries 88
Mean 0.002256
Std Dev 0.1587
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

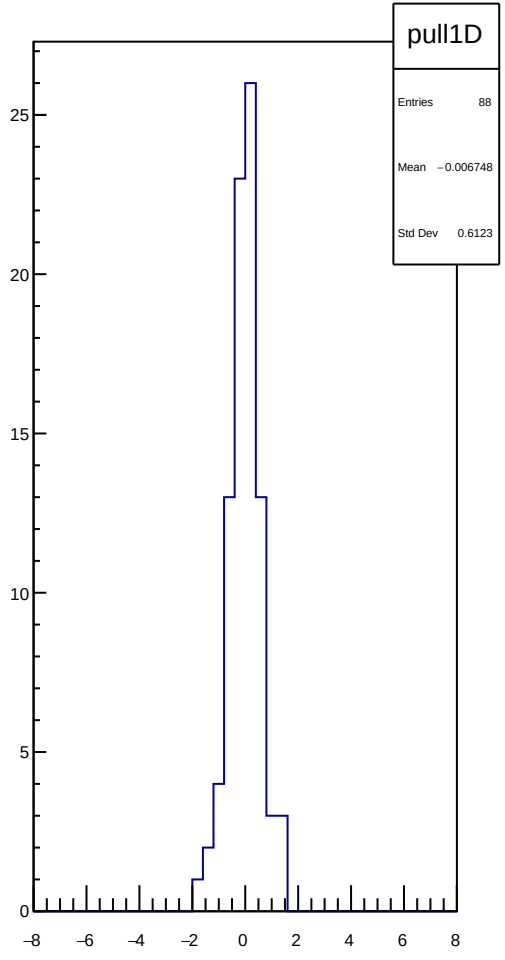

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.66 / 87
p0 521.1 ± 9.444
650
600
550
500
450
400
pull
Entries 88
Mean 3074
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 88
Mean 0.0003887
Std Dev 0.1739
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

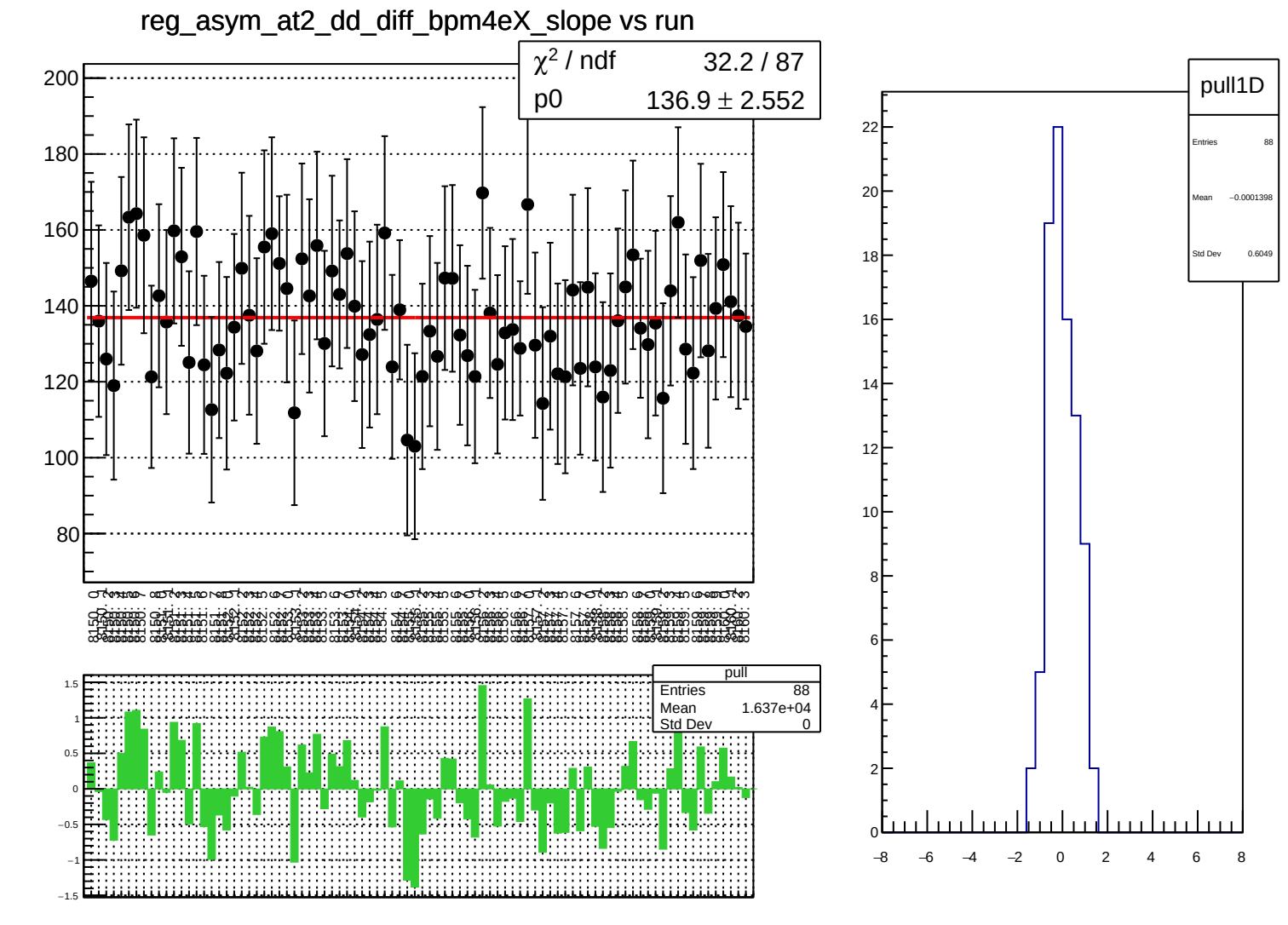

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.334 / 87
p0 −86.77 ± 18.7
200
100
0
−100
−200
−300
pull
Entries 88
Mean −26.85
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 88
Mean −0.002325
Std Dev 0.1628
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

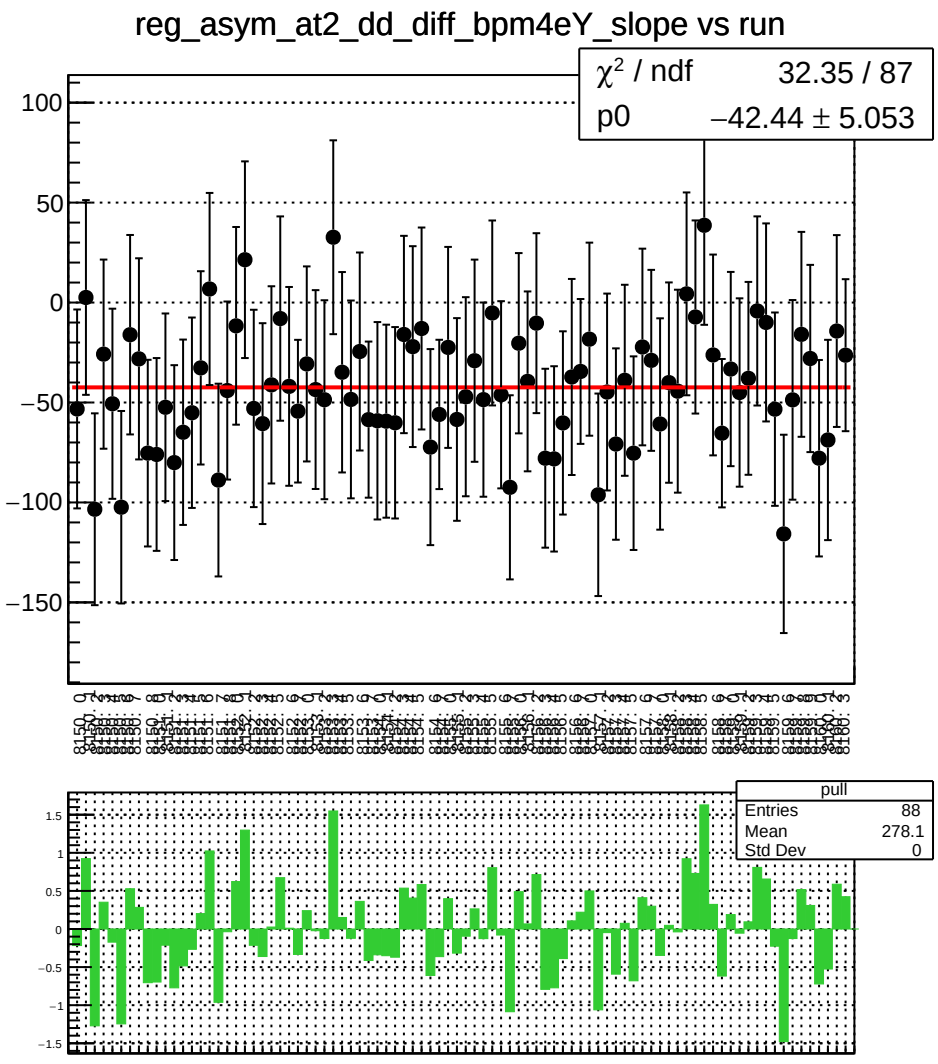

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 4.133 / 87
p0 −300.1 ± 0.8757
−285
−290
−295
−300
−305
−310
pull
Entries 88
Mean −282.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.002469
Std Dev 0.2167
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

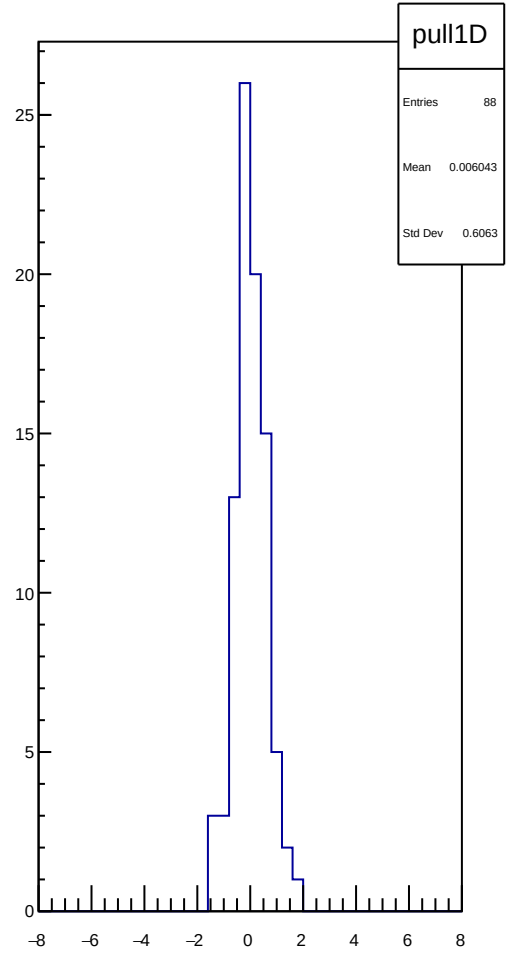

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 31.33 / 87
p0 −55.56 ± 2.518
pull
Entries 88
Mean −4883
Std Dev 0
pull1D
Entries 88
Mean −0.0005014
Std Dev 0.5966

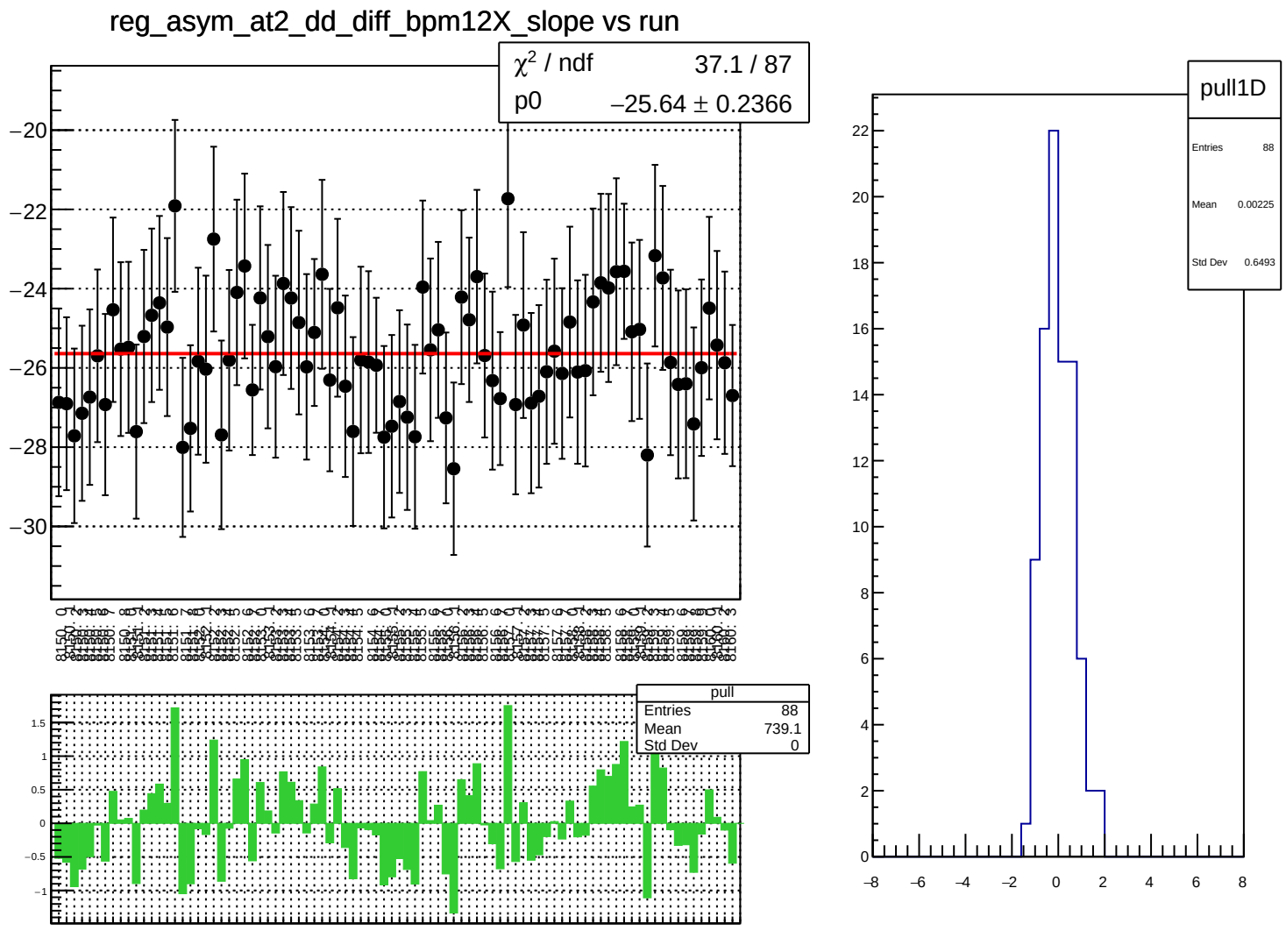

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.99 / 87
p0 47.01 ± 4.715
150
100
50
0
−50
−100
pull
Entries 88
Mean 279.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

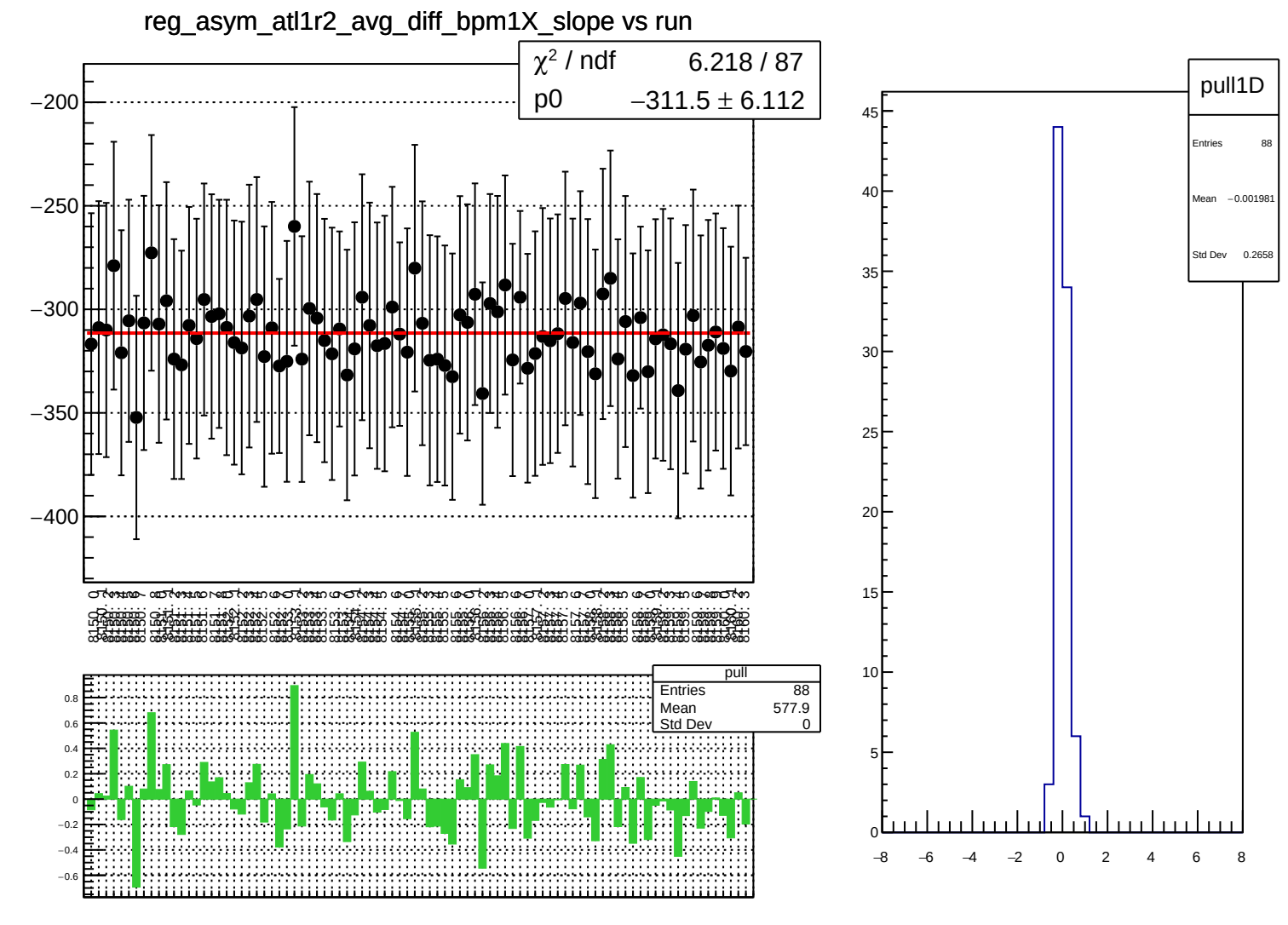

pull1D
Entries 88
Mean −0.006748
Std Dev 0.6123
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

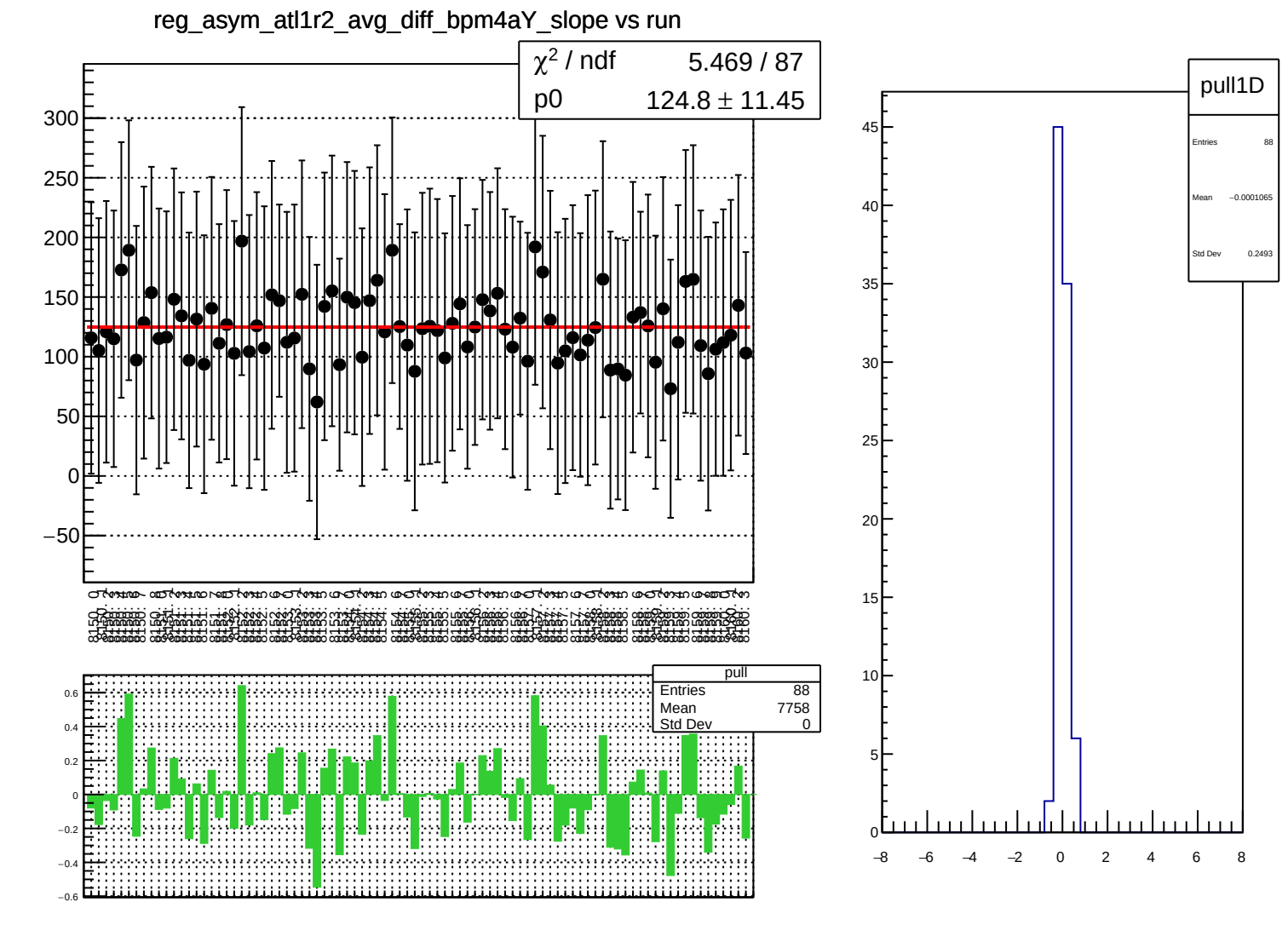

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.2 / 87
p0 136.9 ± 2.552
pull
Entries 88
Mean 1.637e+04
Std Dev 0
pull1D
Entries 88
Mean −0.0001398
Std Dev 0.6049

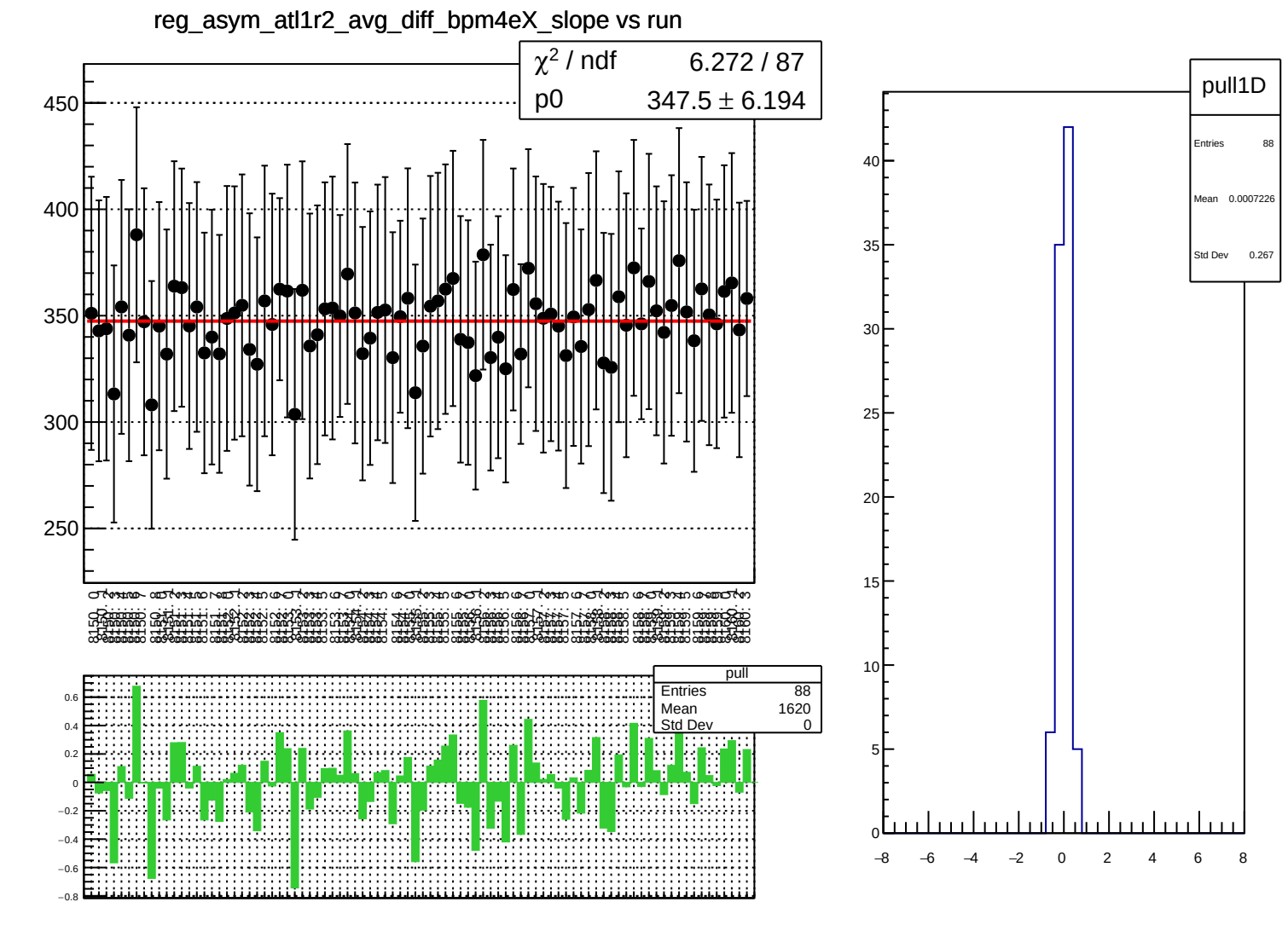

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.35 / 87
p0 −42.44 ± 5.053
100
50
0
−50
−100
−150
pull
Entries 88
Mean 278.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

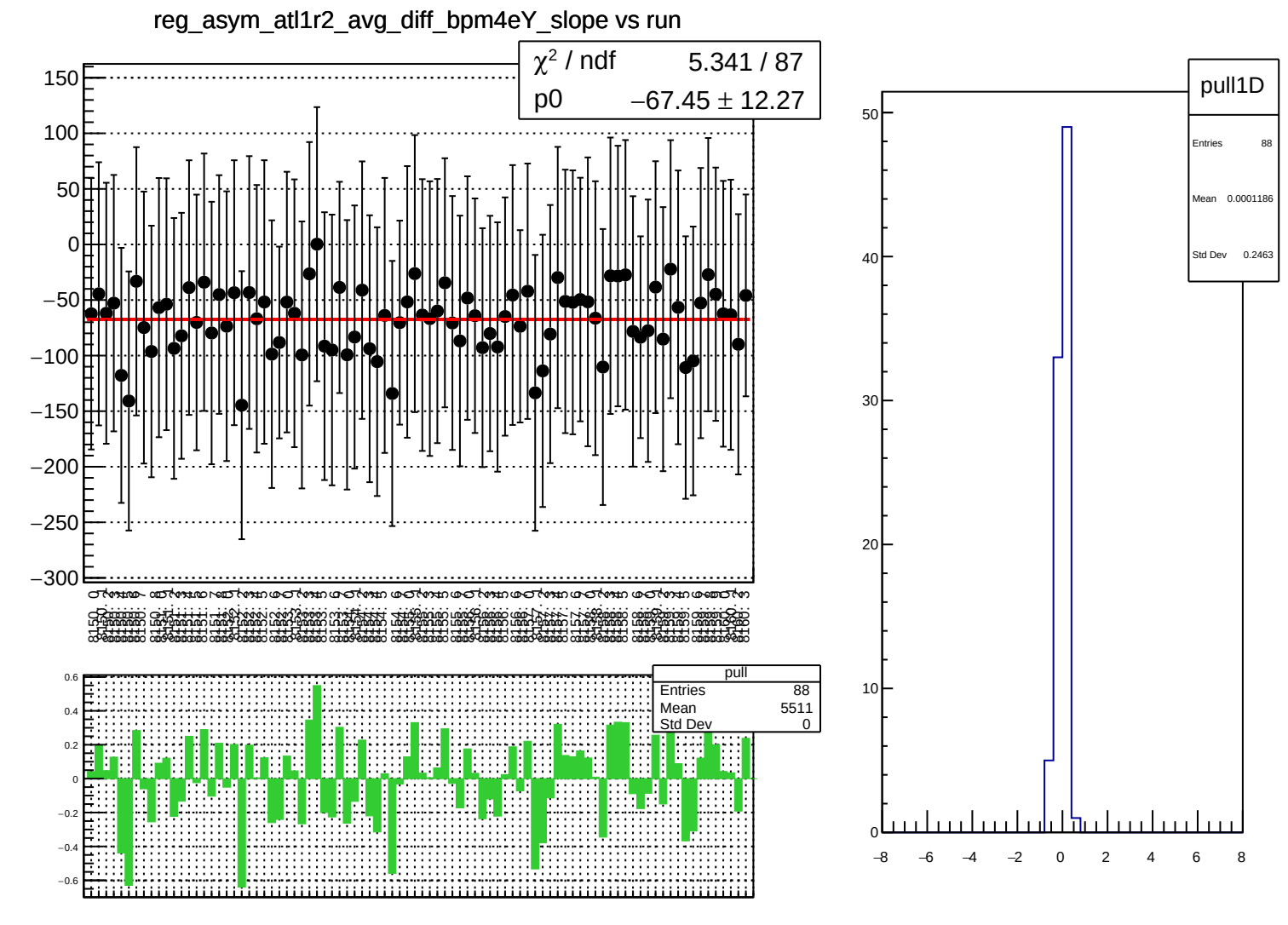

pull1D
Entries 88
Mean 0.006043
Std Dev 0.6063
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

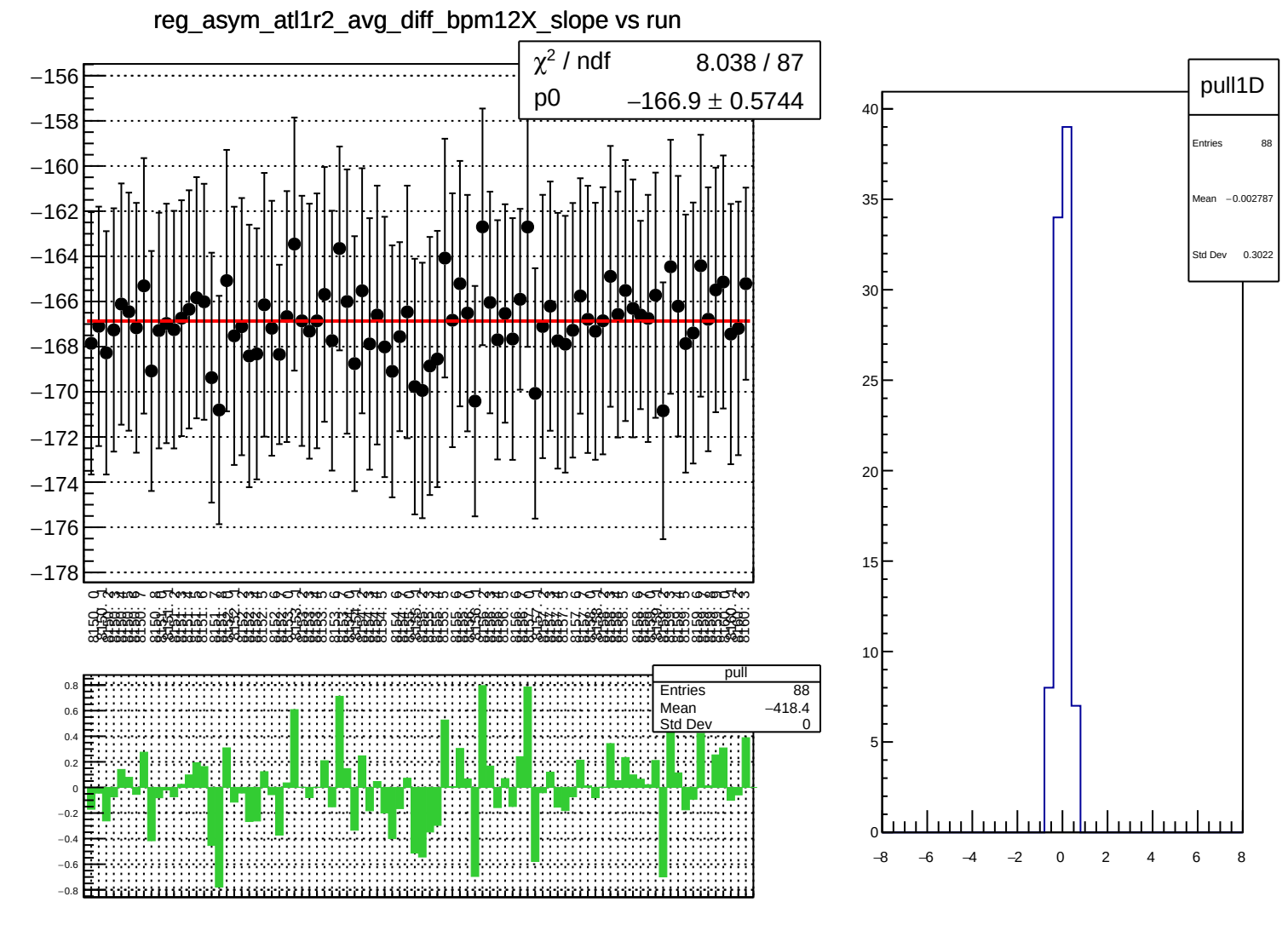

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 37.1 / 87
p0 −25.64 ± 0.2366
pull
Entries 88
Mean 739.1
Std Dev 0
pull1D
Entries 88
Mean 0.00225
Std Dev 0.6493

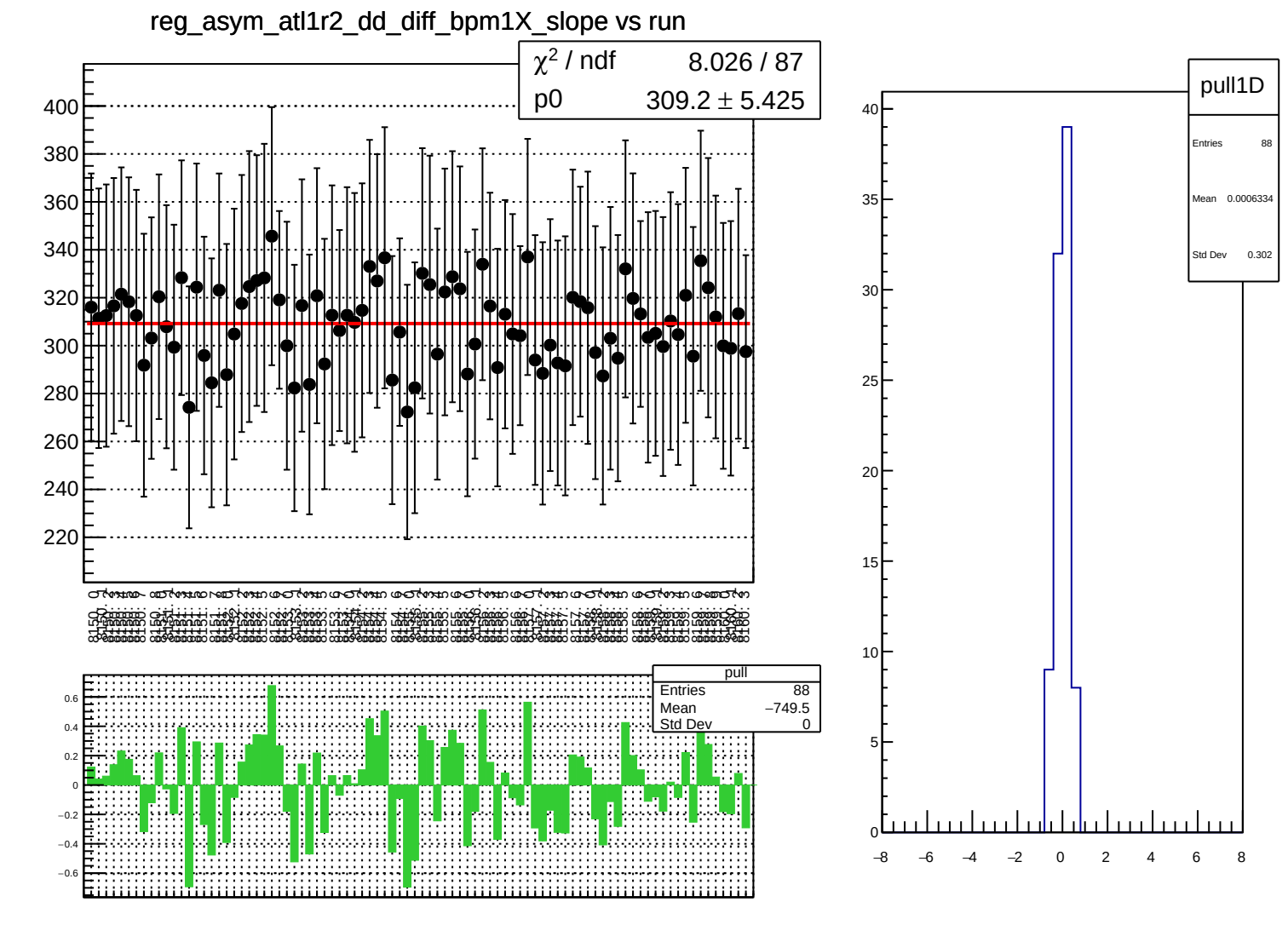

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 6.218 / 87
p0 −311.5 ± 6.112
−200
−250
−300
−350
−400
pull
Entries 88
Mean 577.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.001981
Std Dev 0.2658
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

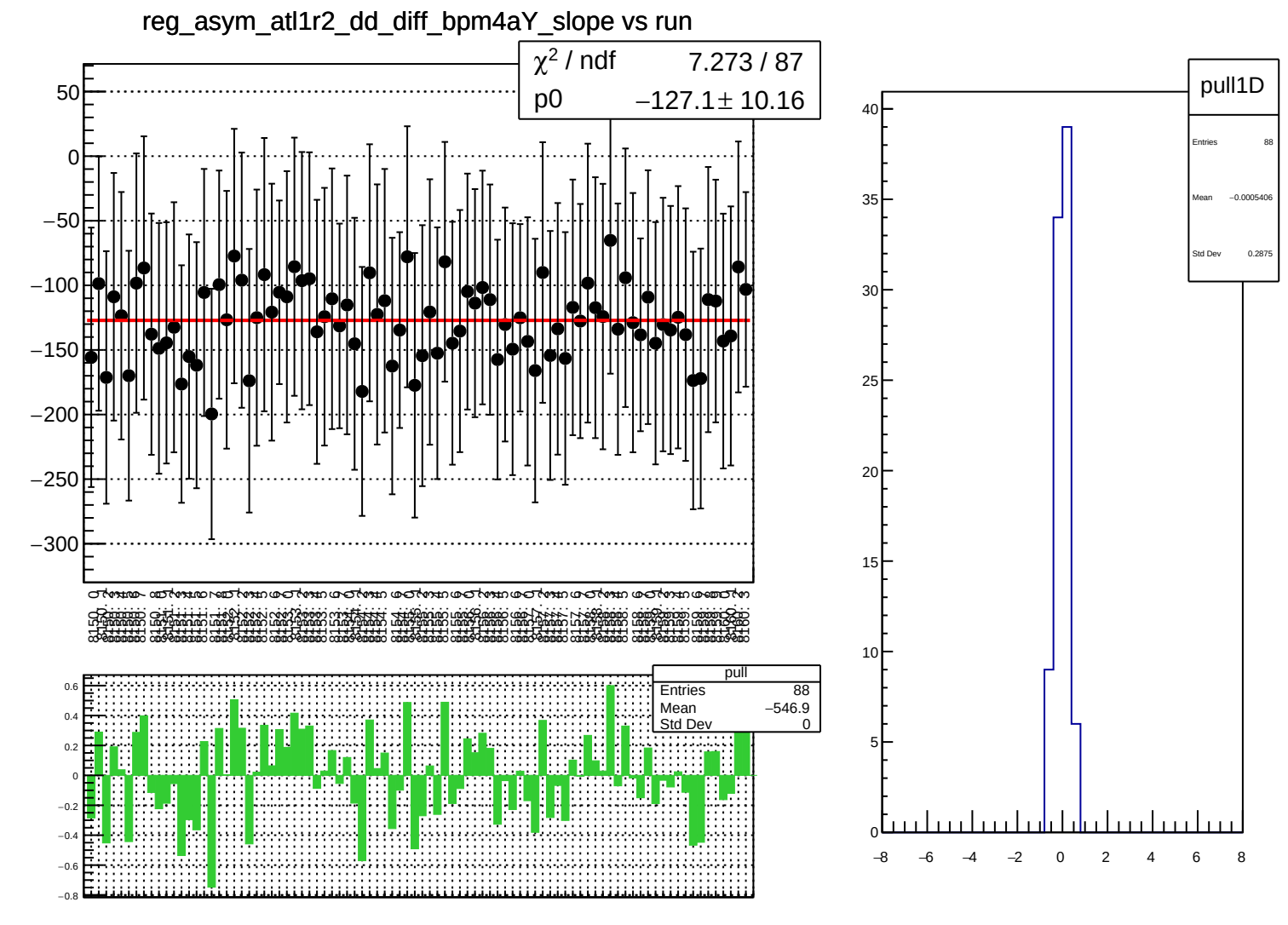

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.469 / 87
p0 124.8 ± 11.45
pull
Entries 88
Mean 7758
Std Dev 0
pull1D
Entries 88
Mean −0.0001065
Std Dev 0.2493

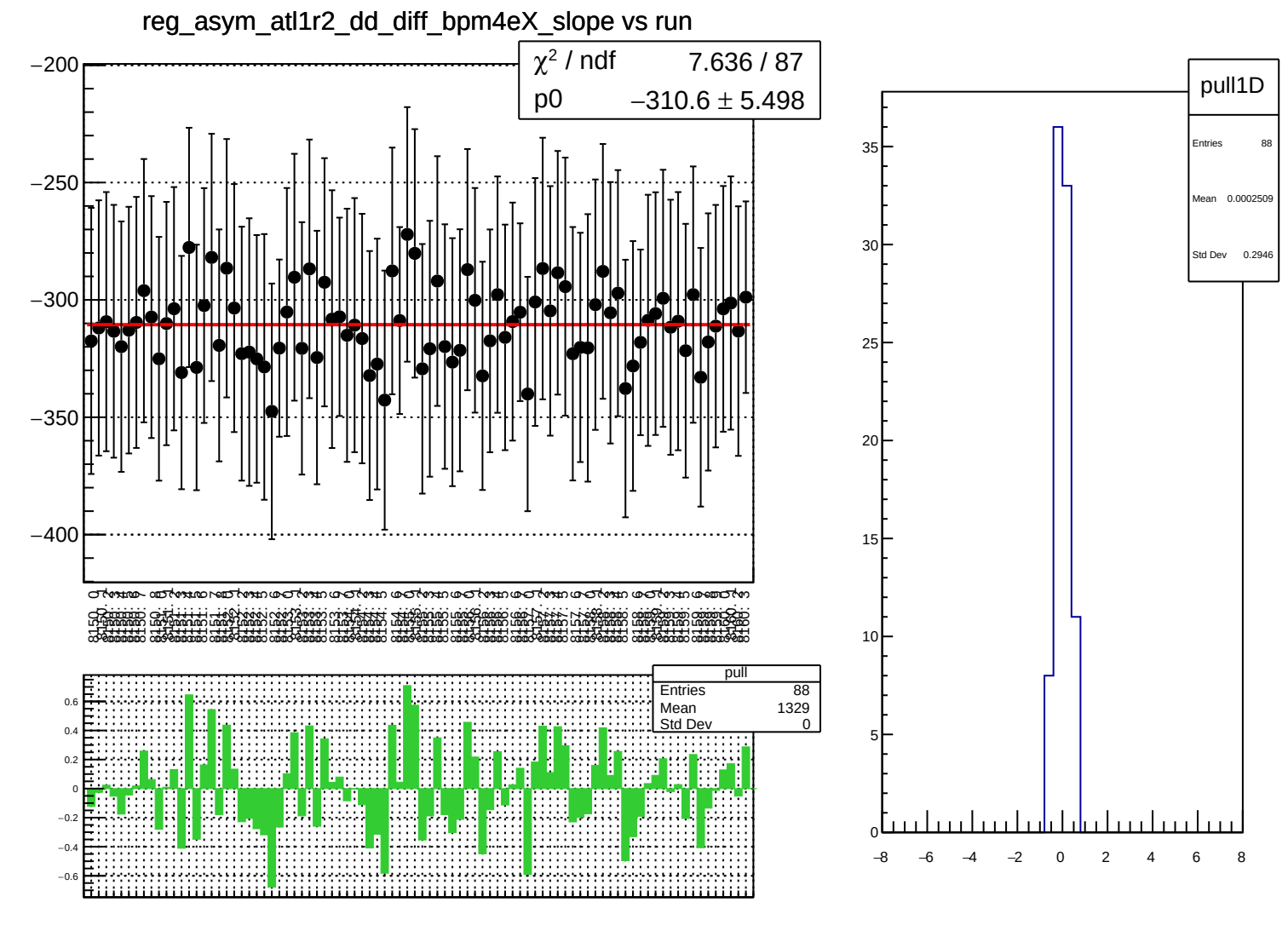

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 6.272 / 87
p0 347.5 ± 6.194
450
400
350
300
250
pull
Entries 88
Mean 1620
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean 0.0007226
Std Dev 0.267
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

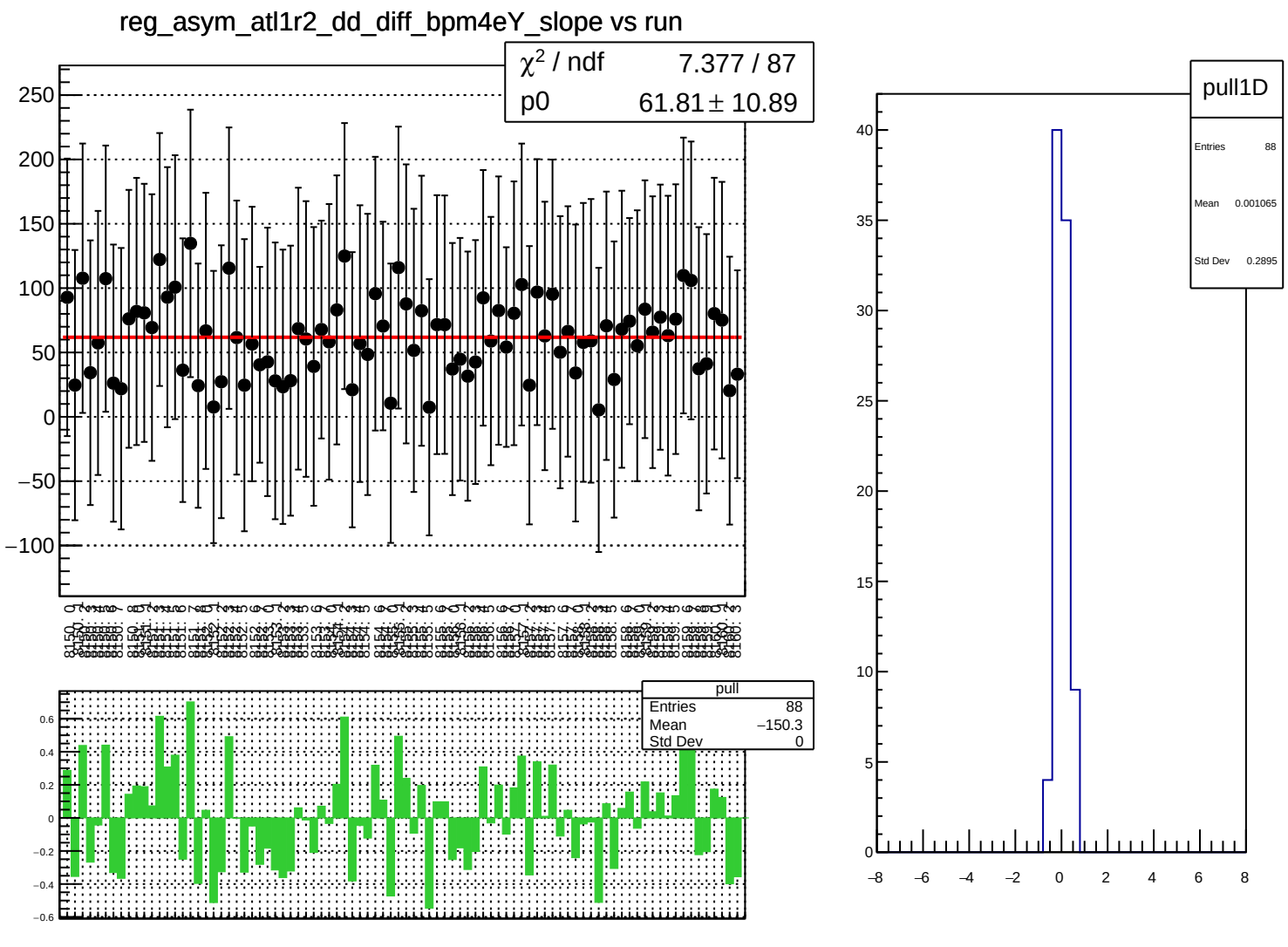

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.341 / 87
p0 −67.45 ± 12.27
pull
Entries 88
Mean 5511
Std Dev 0
pull1D
Entries 88
Mean 0.0001186
Std Dev 0.2463

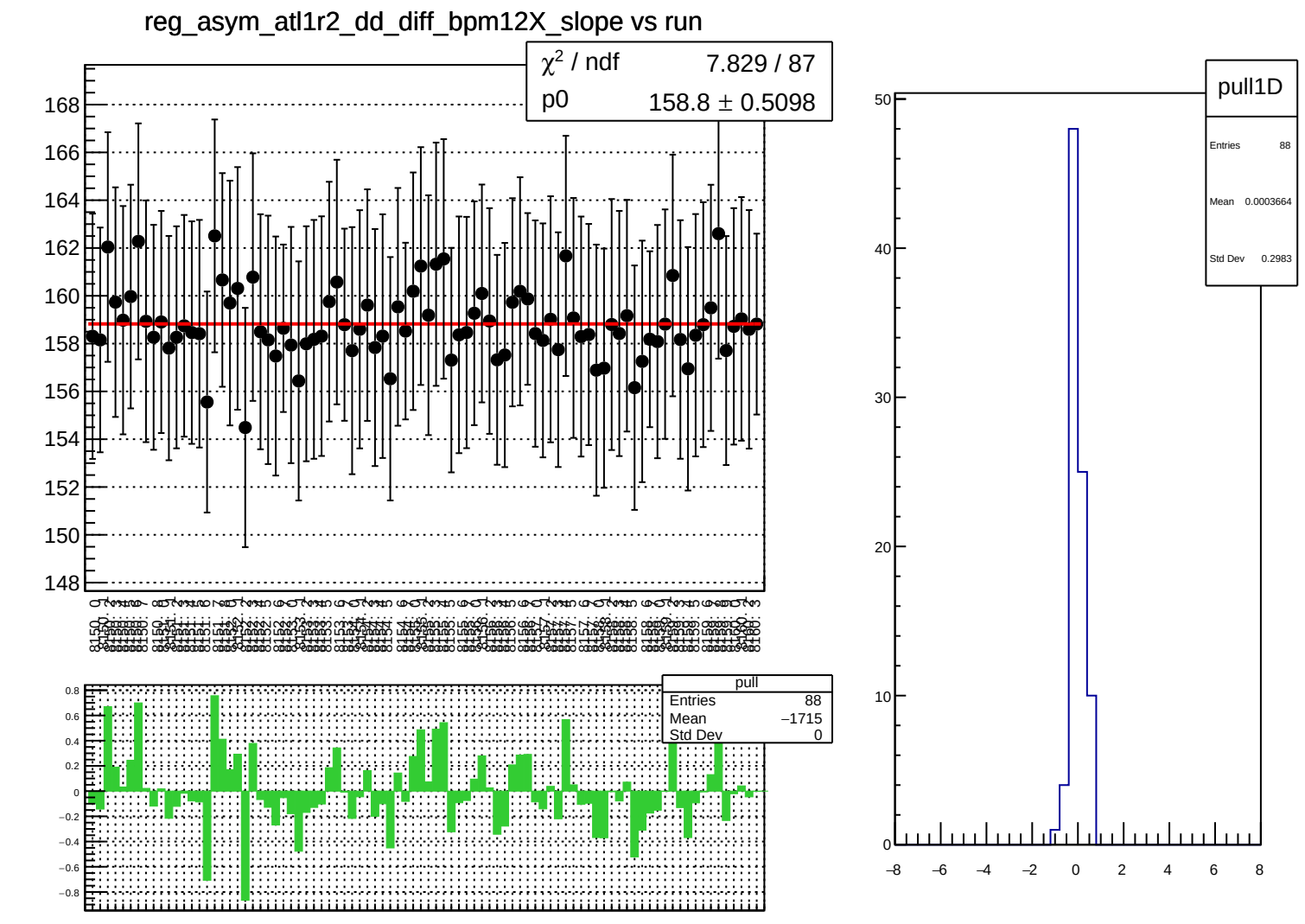

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 8.038 / 87
p0 −166.9 ± 0.5744
pull
Entries 88
Mean −418.4
Std Dev 0
pull1D
Entries 88
Mean −0.002787
Std Dev 0.3022

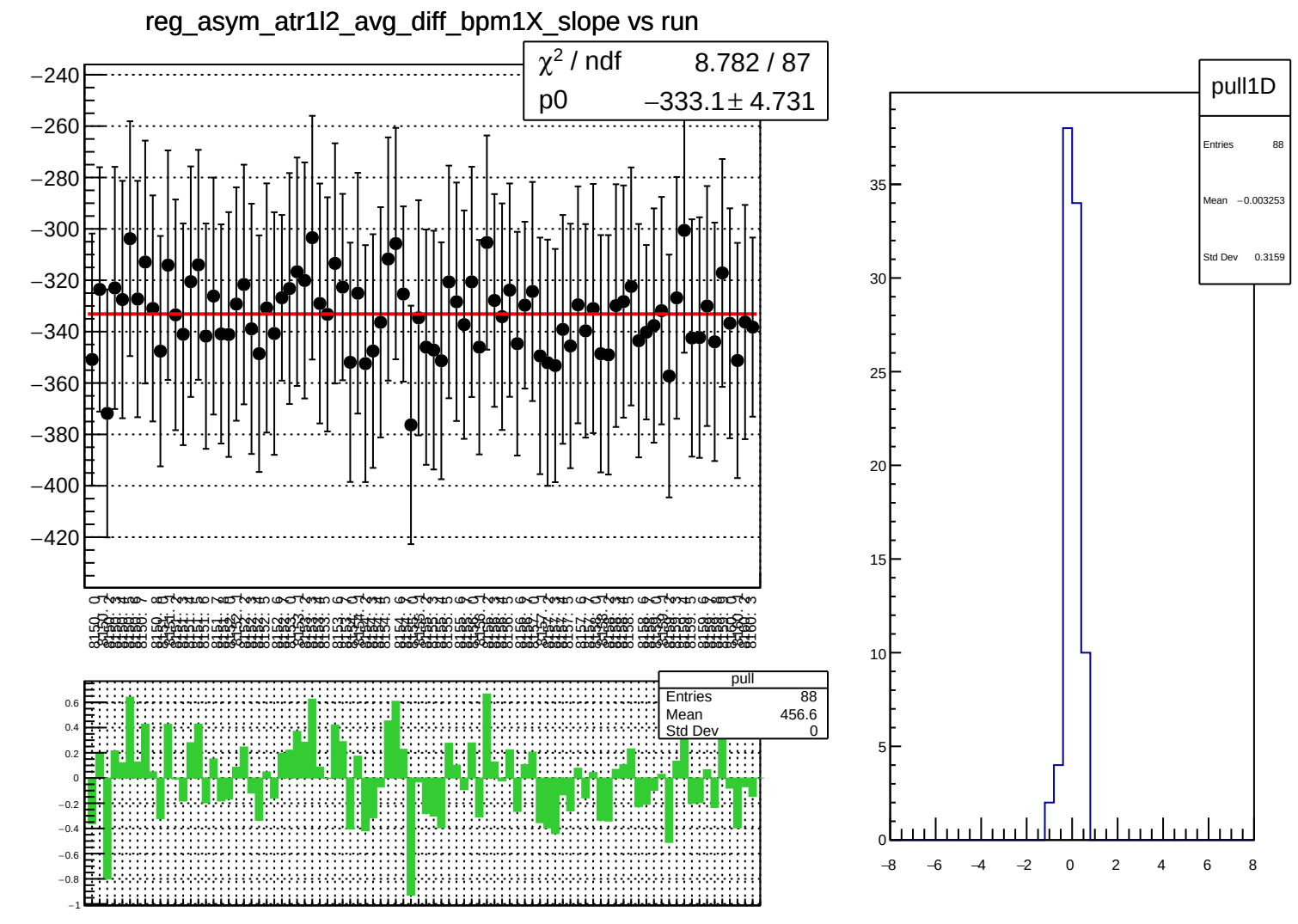

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.026 / 87
p0 309.2 ± 5.425
pull
Entries 88
Mean −749.5
Std Dev 0
pull1D
Entries 88
Mean 0.0006334
Std Dev 0.302

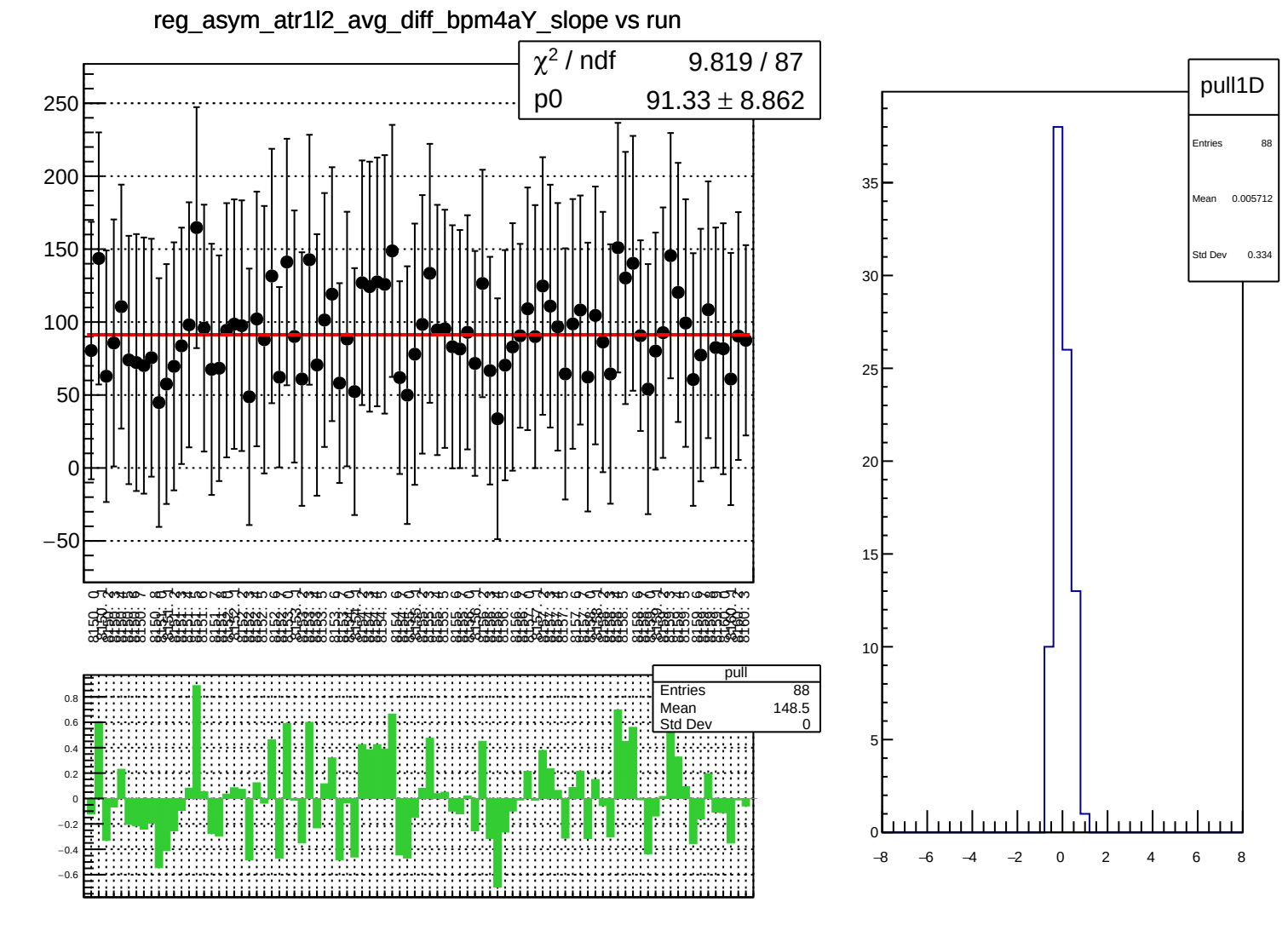

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.273 / 87
p0 −127.1± 10.16
pull
Entries 88
Mean −546.9
Std Dev 0
pull1D
Entries 88
Mean −0.0005406
Std Dev 0.2875

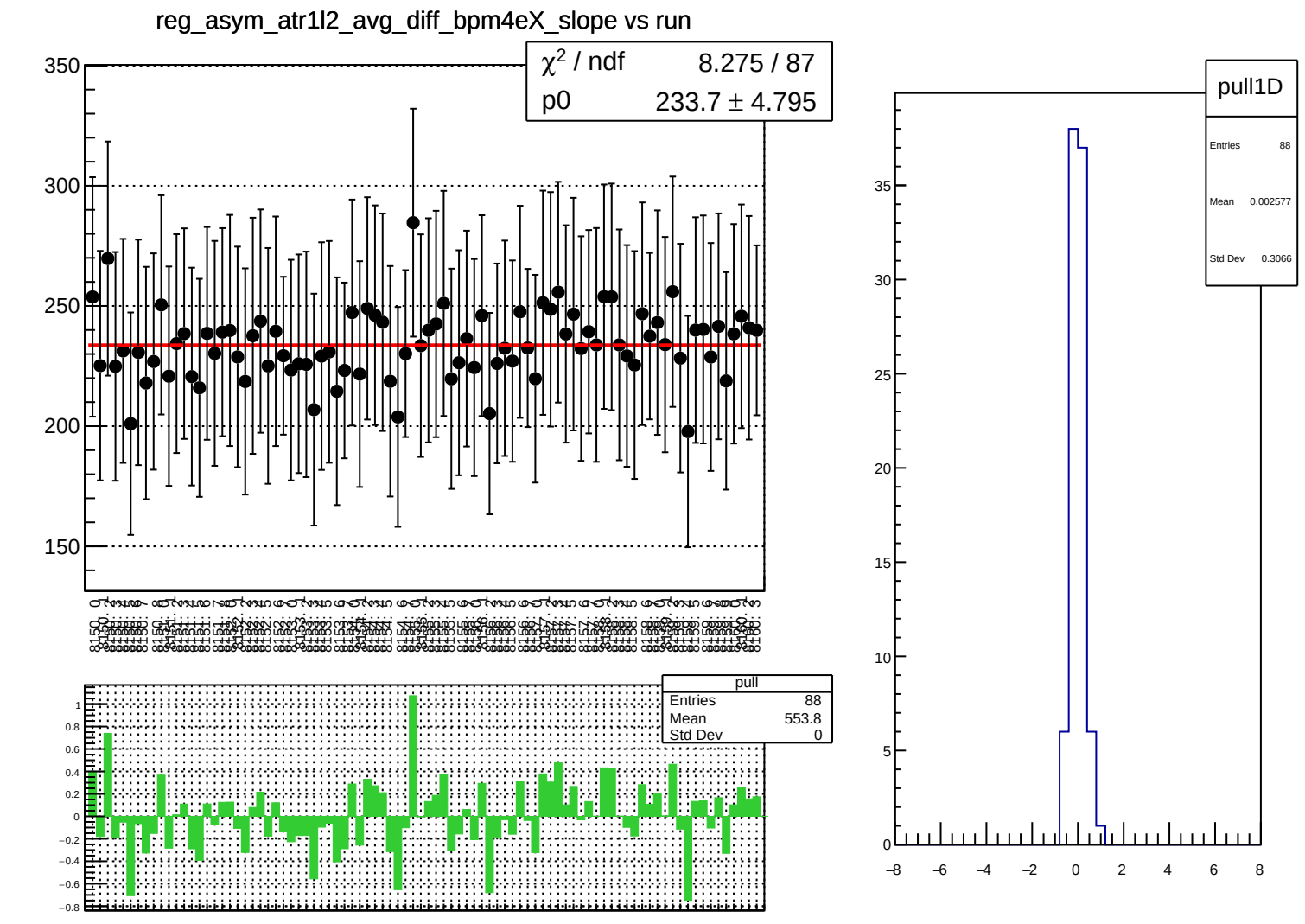

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.636 / 87
p0 −310.6 ± 5.498
−200
−250
−300
−350
−400
pull
Entries 88
Mean 1329
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.0002509
Std Dev 0.2946
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

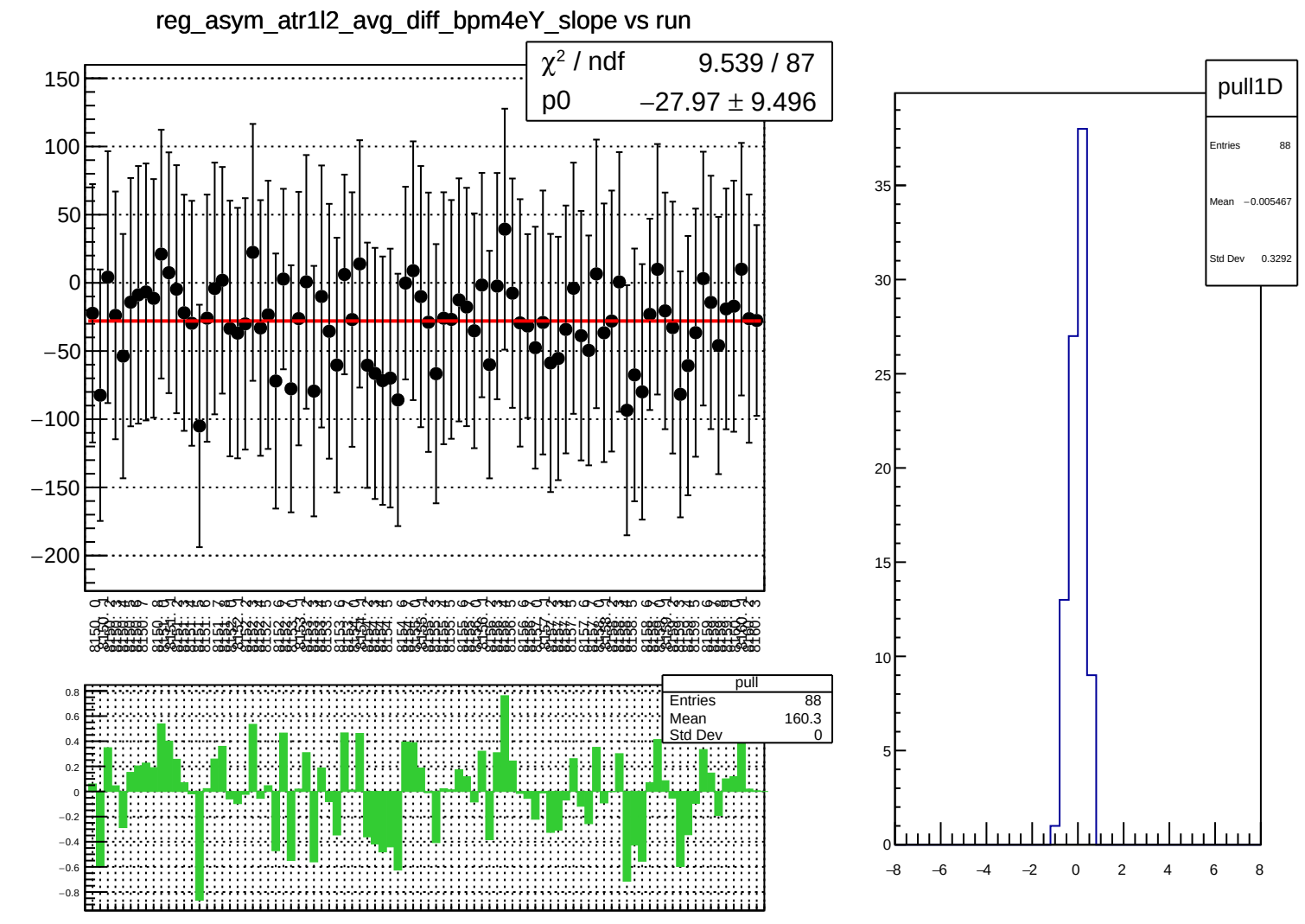

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.377 / 87
p0 61.81 ± 10.89
pull
Entries 88
Mean −150.3
Std Dev 0
pull1D
Entries 88
Mean 0.001065
Std Dev 0.2895

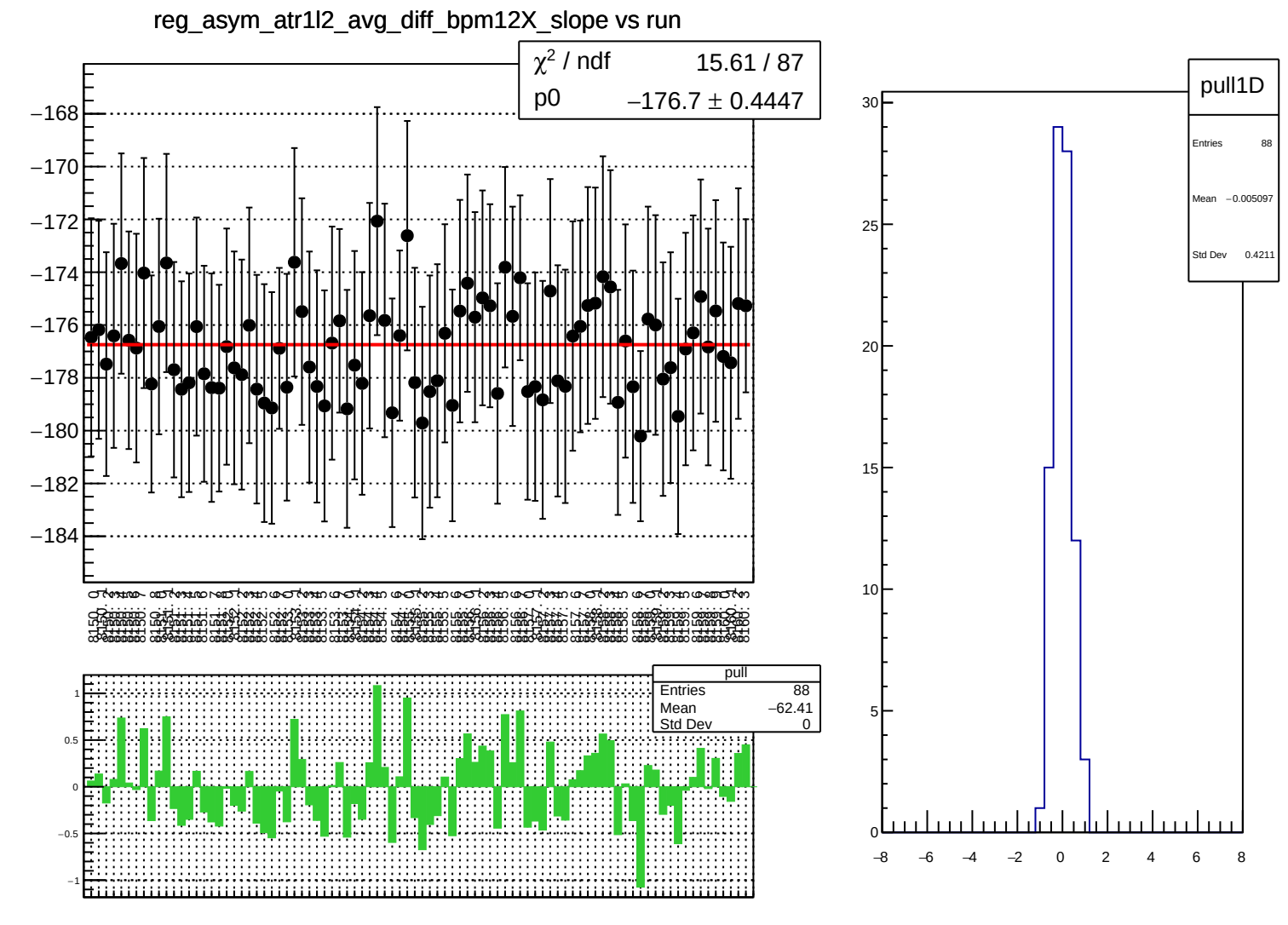

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 7.829 / 87
p0 158.8 ± 0.5098
pull
Entries 88
Mean −1715
Std Dev 0
pull1D
Entries 88
Mean 0.0003664
Std Dev 0.2983

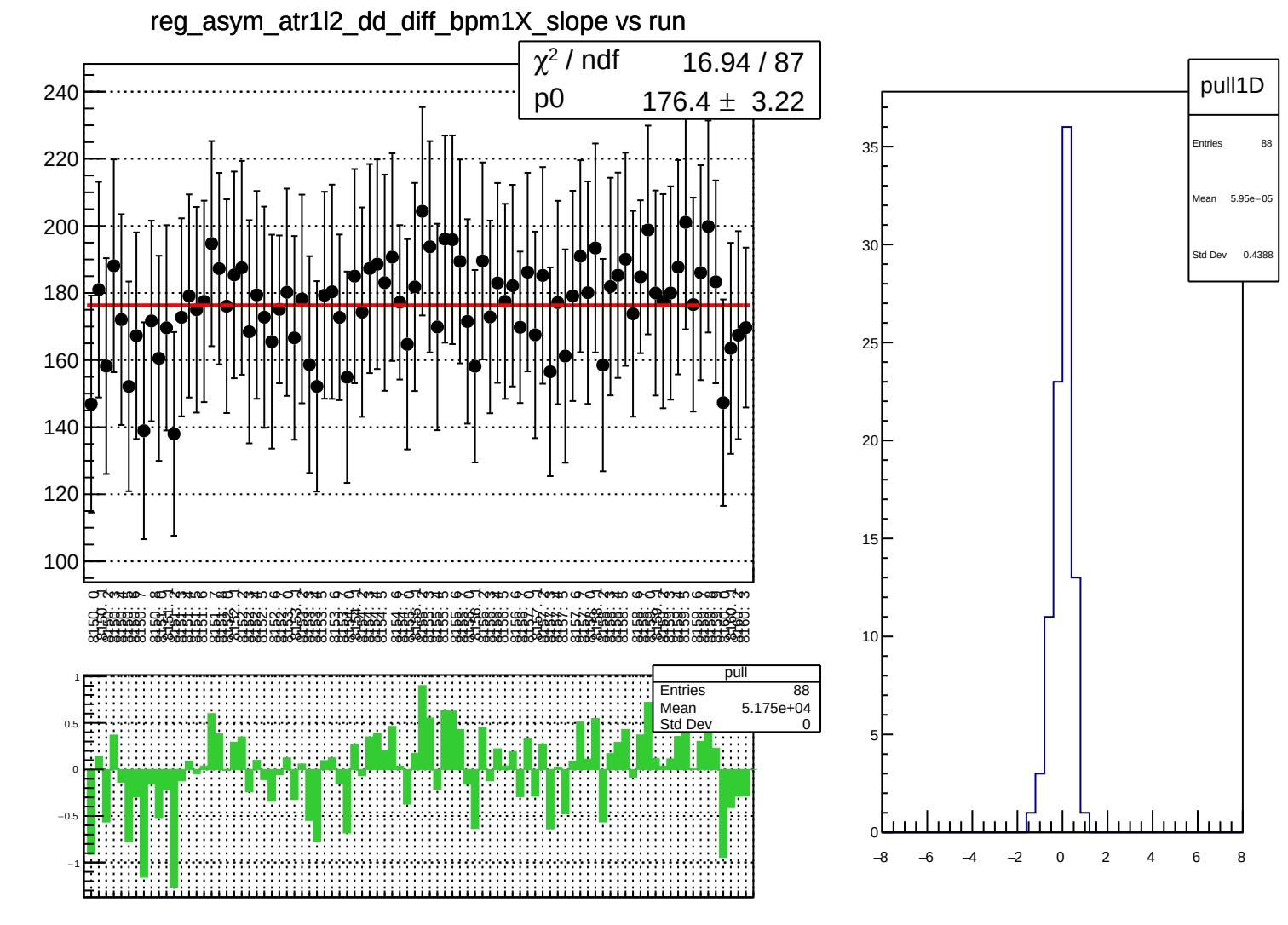

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.782 / 87
p0 −333.1 ± 4.731
pull
Entries 88
Mean 456.6
Std Dev 0
pull1D
Entries 88
Mean −0.003253
Std Dev 0.3159

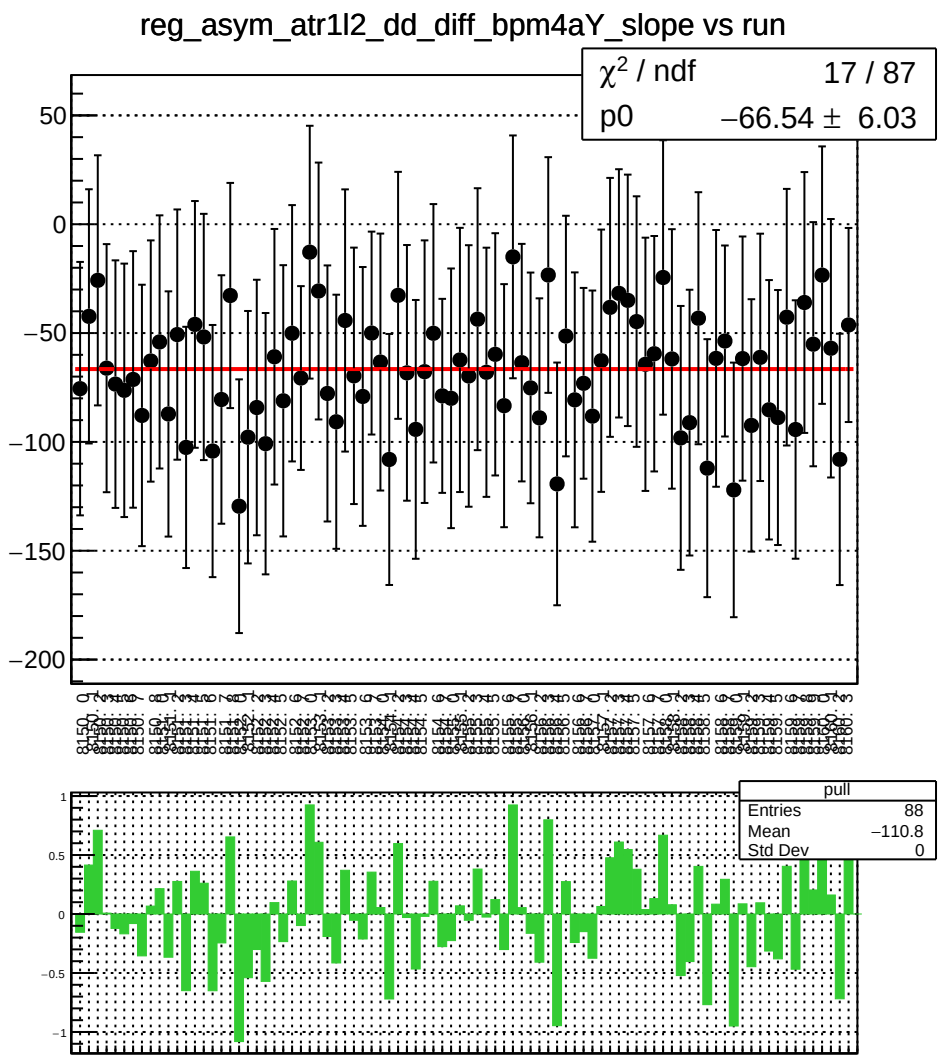

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.819 / 87
p0 91.33 ± 8.862
pull
Entries 88
Mean 148.5
Std Dev 0
pull1D
Entries 88
Mean 0.005712
Std Dev 0.334

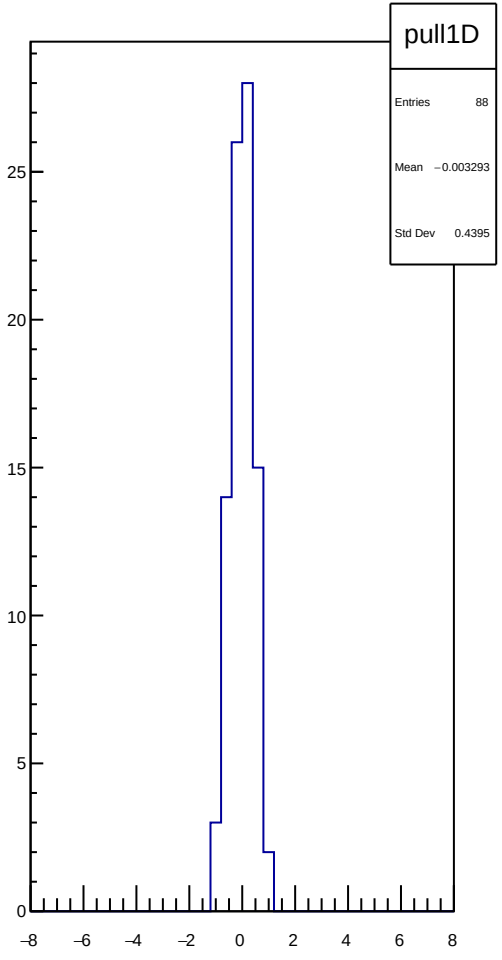

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.275 / 87
p0 233.7 ± 4.795
350
300
250
200
150
pull
Entries 88
Mean 553.8
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean 0.002577
Std Dev 0.3066
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

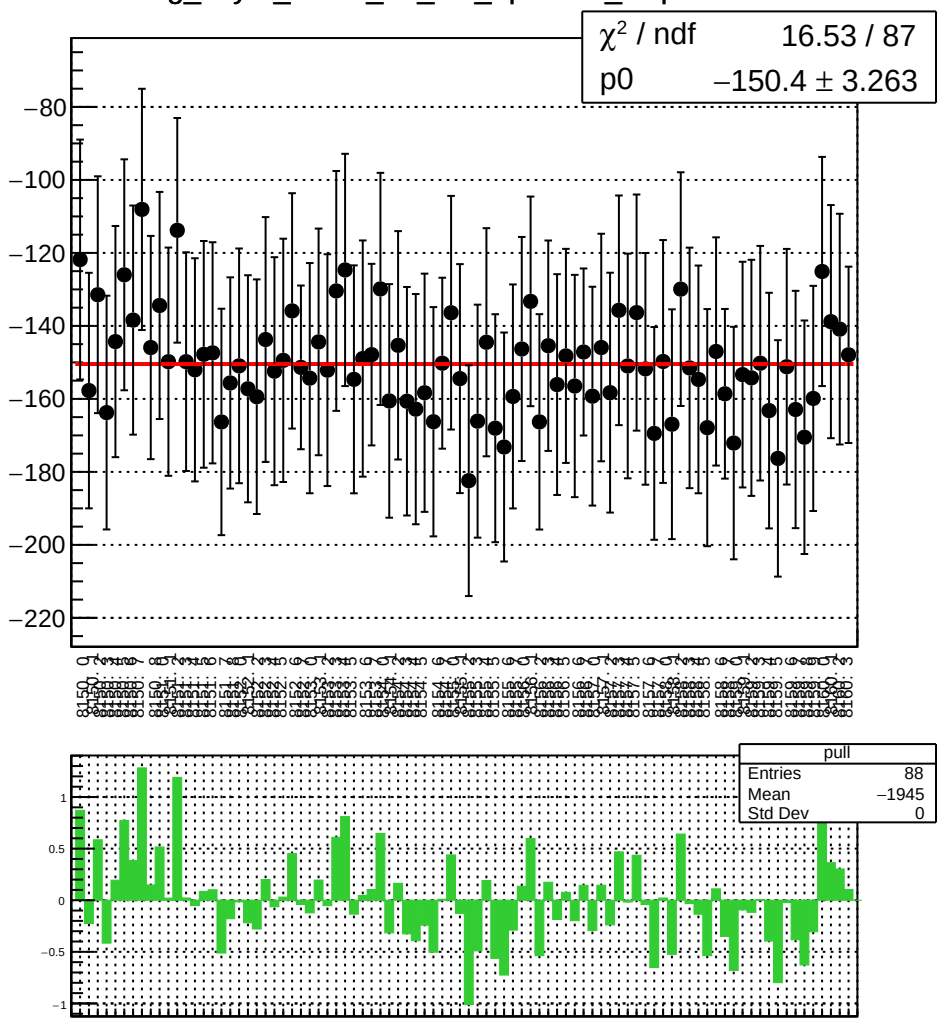

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.539 / 87
p0 −27.97 ± 9.496
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 160.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean −0.005467
Std Dev 0.3292
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

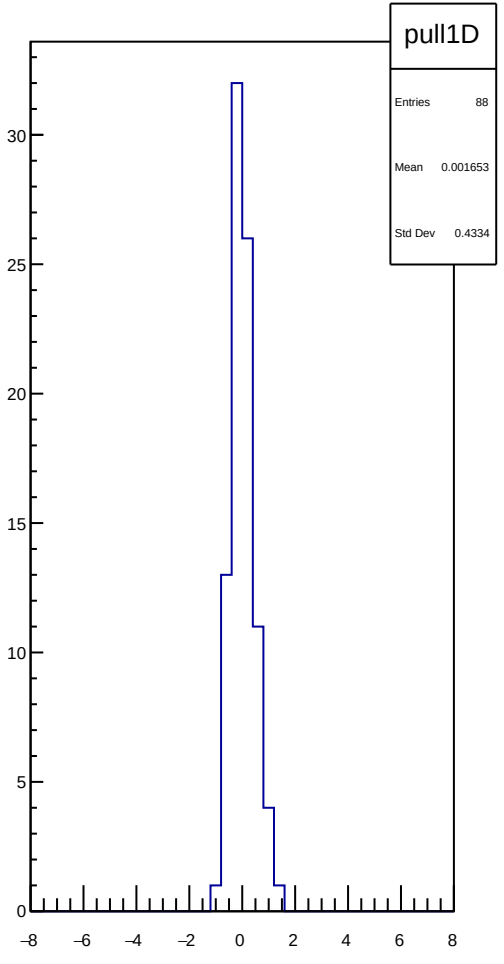

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 15.61 / 87
p0 −176.7 ± 0.4447
pull
Entries 88
Mean −62.41
Std Dev 0
pull1D
Entries 88
Mean −0.005097
Std Dev 0.4211

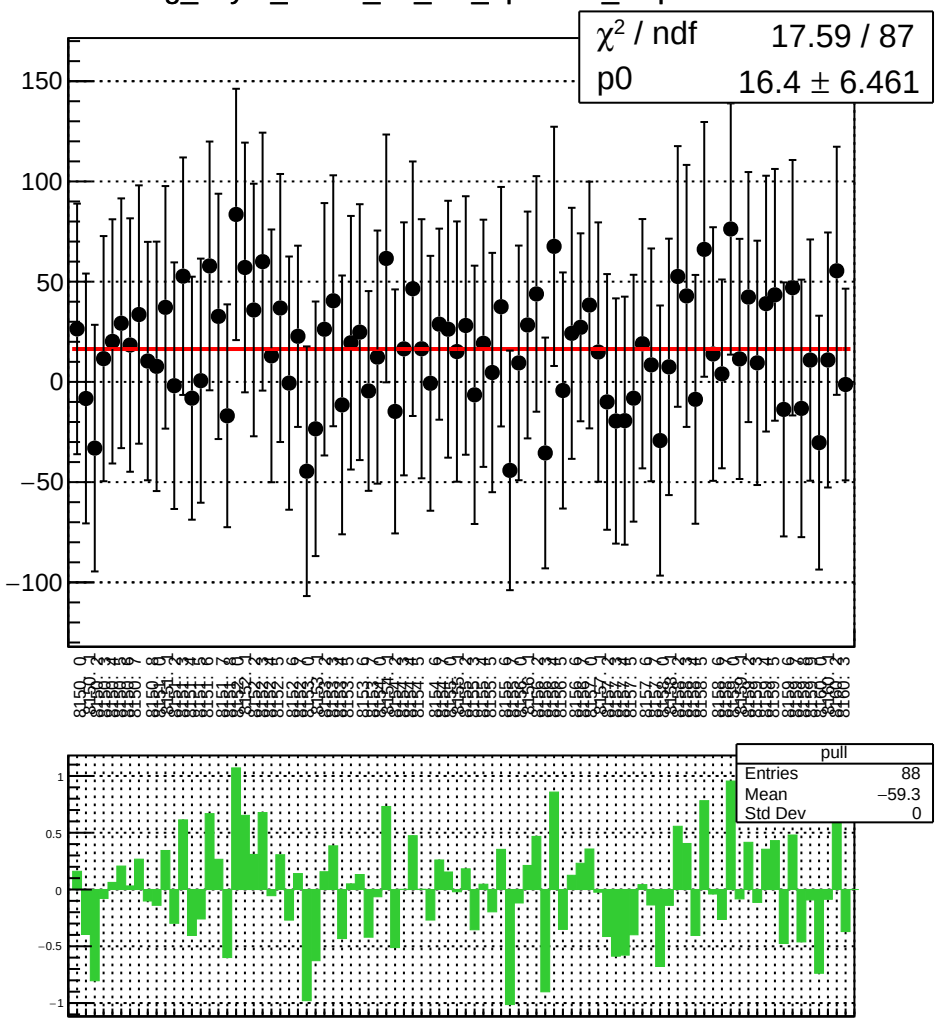

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 16.94 / 87
p0 176.4 ± 3.22
pull
Entries 88
Mean 5.175e+04
Std Dev 0
pull1D
Entries 88
Mean 5.95e−05
Std Dev 0.4388

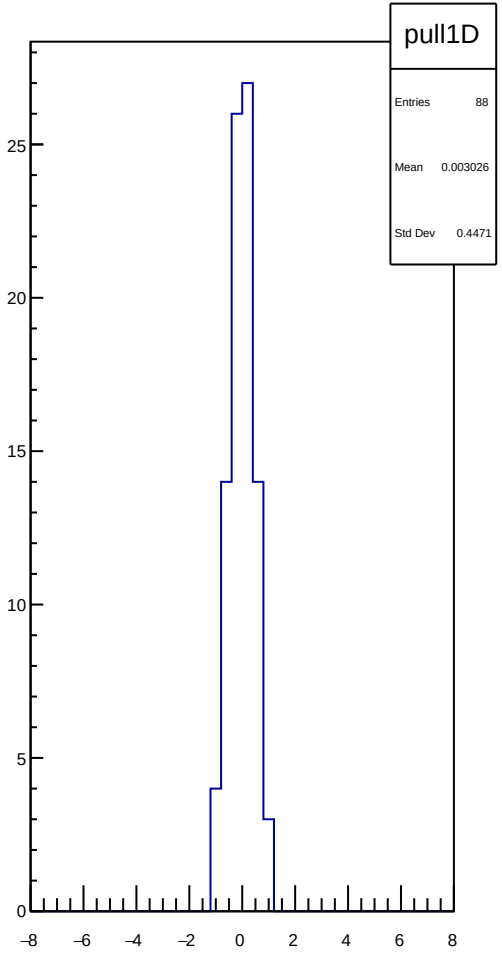

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17 / 87
p0 −66.54 ± 6.03
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −110.8
Std Dev 0
1
0.5
0
−0.5
−1

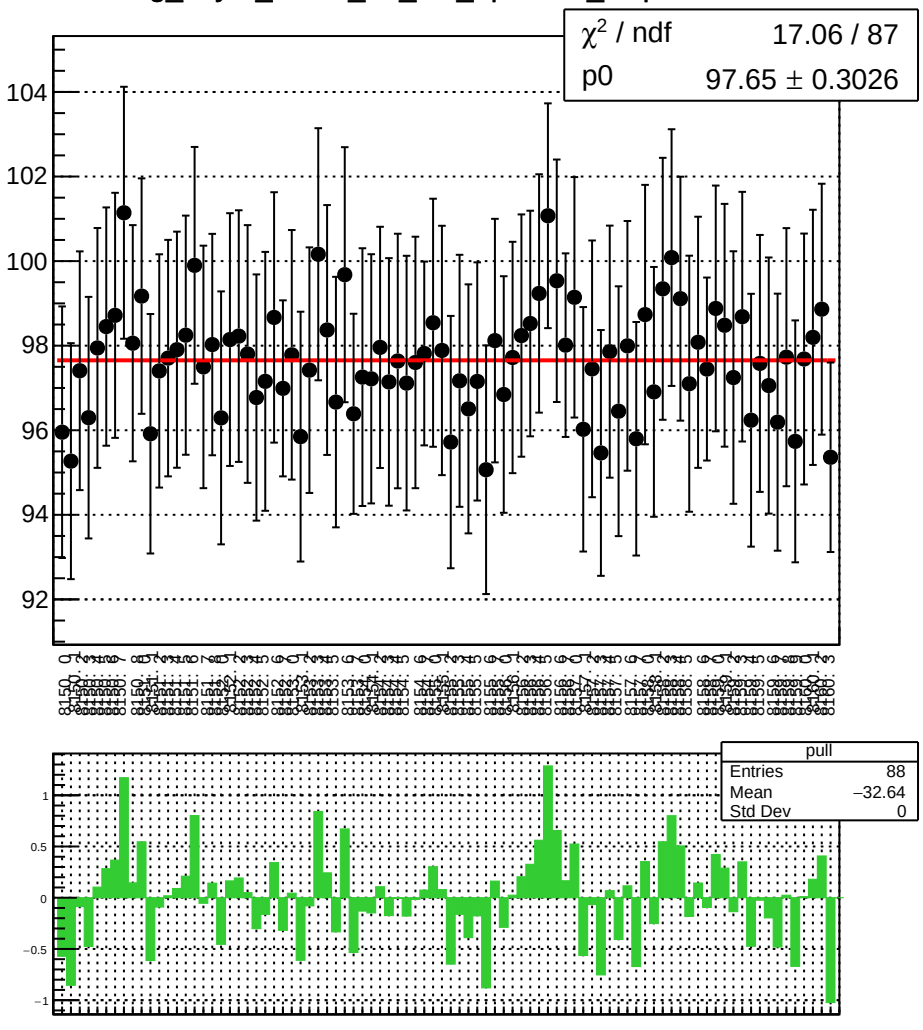

pull1D
Entries 88
Mean −0.003293
Std Dev 0.4395
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

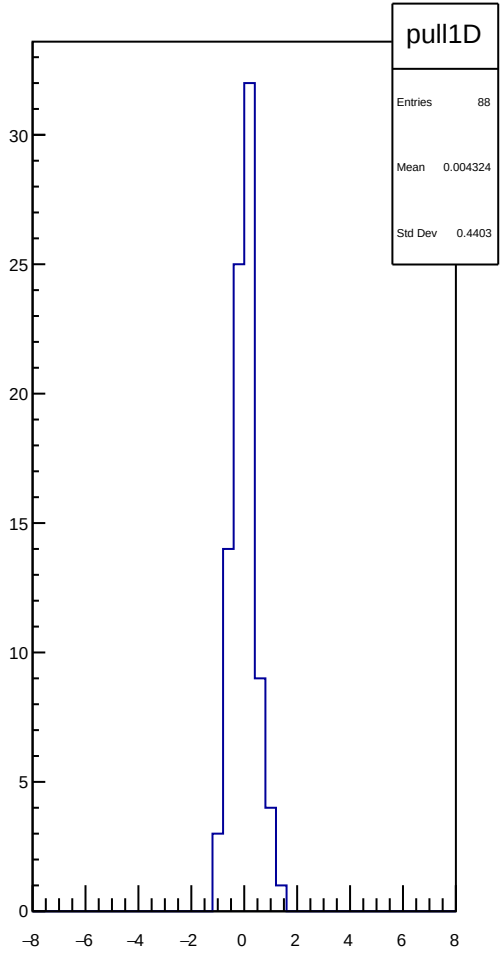

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.53 / 87
p0 −150.4 ± 3.263
pull
Entries 88
Mean −1945
Std Dev 0

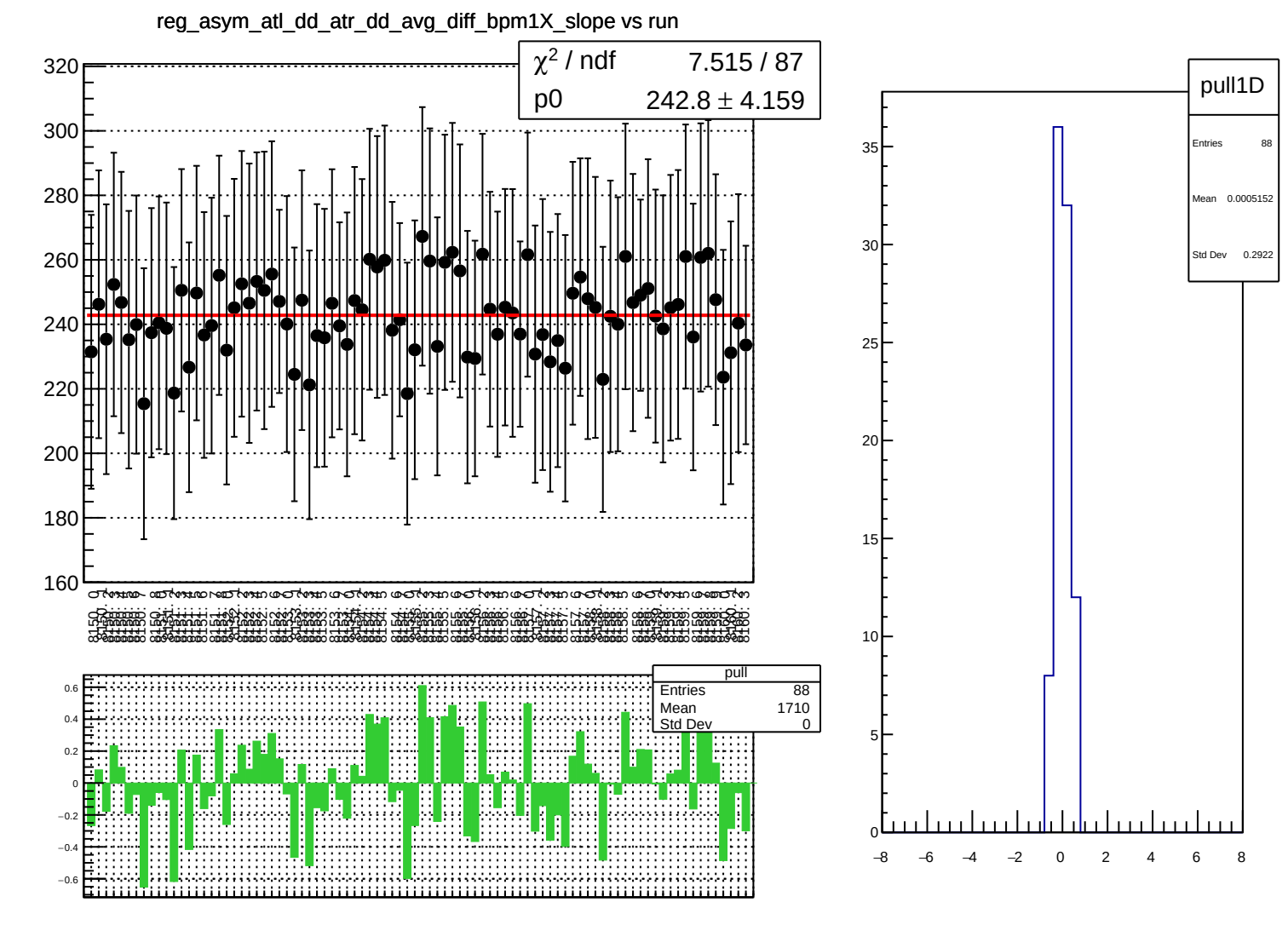

pull1D
Entries 88
Mean 0.001653
Std Dev 0.4334

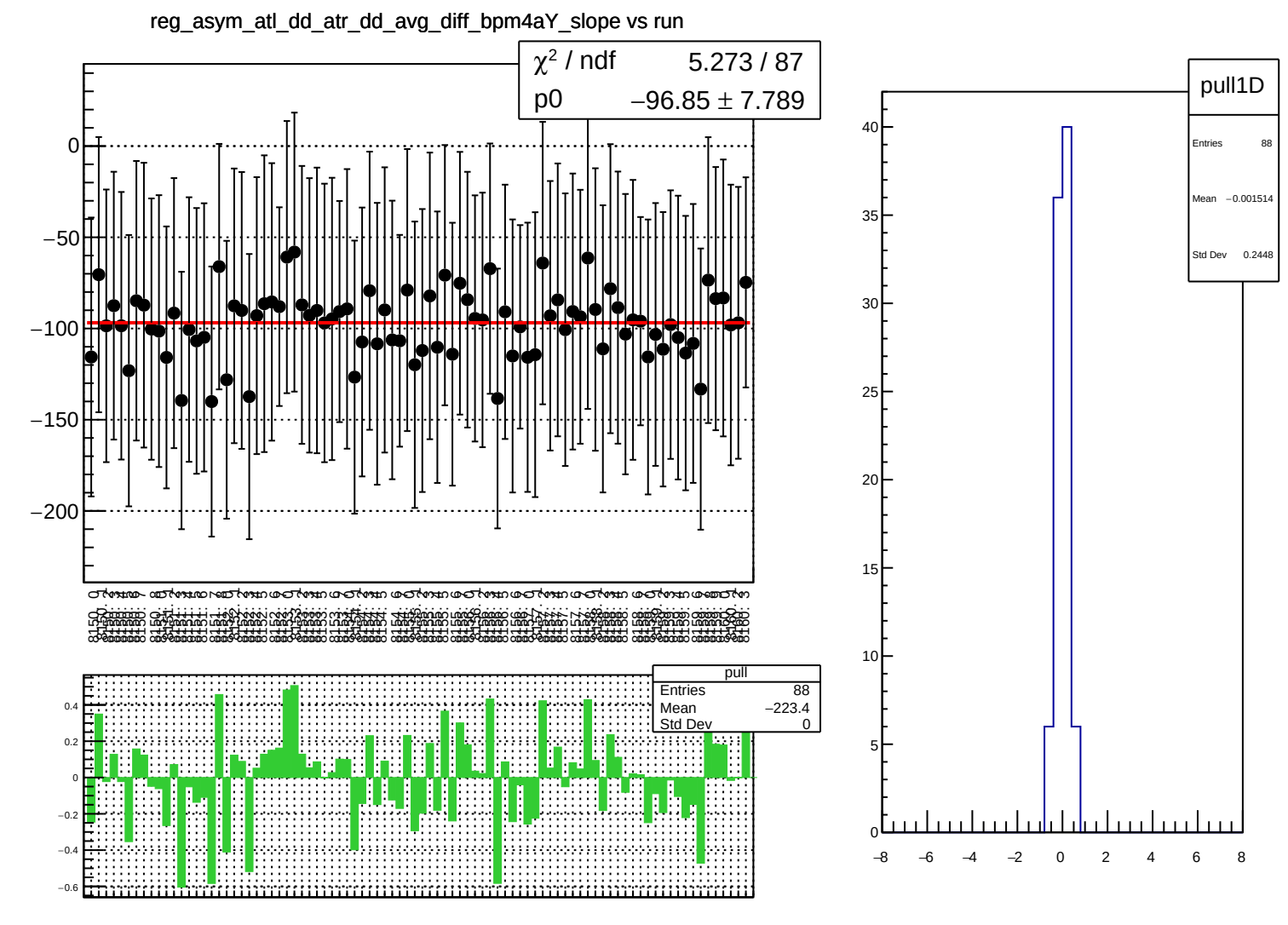

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.59 / 87
p0 16.4 ± 6.461
150
100
50
0
−50
−100
pull
Entries 88
Mean −59.3
Std Dev 0
1
0.5
0
−0.5
−1

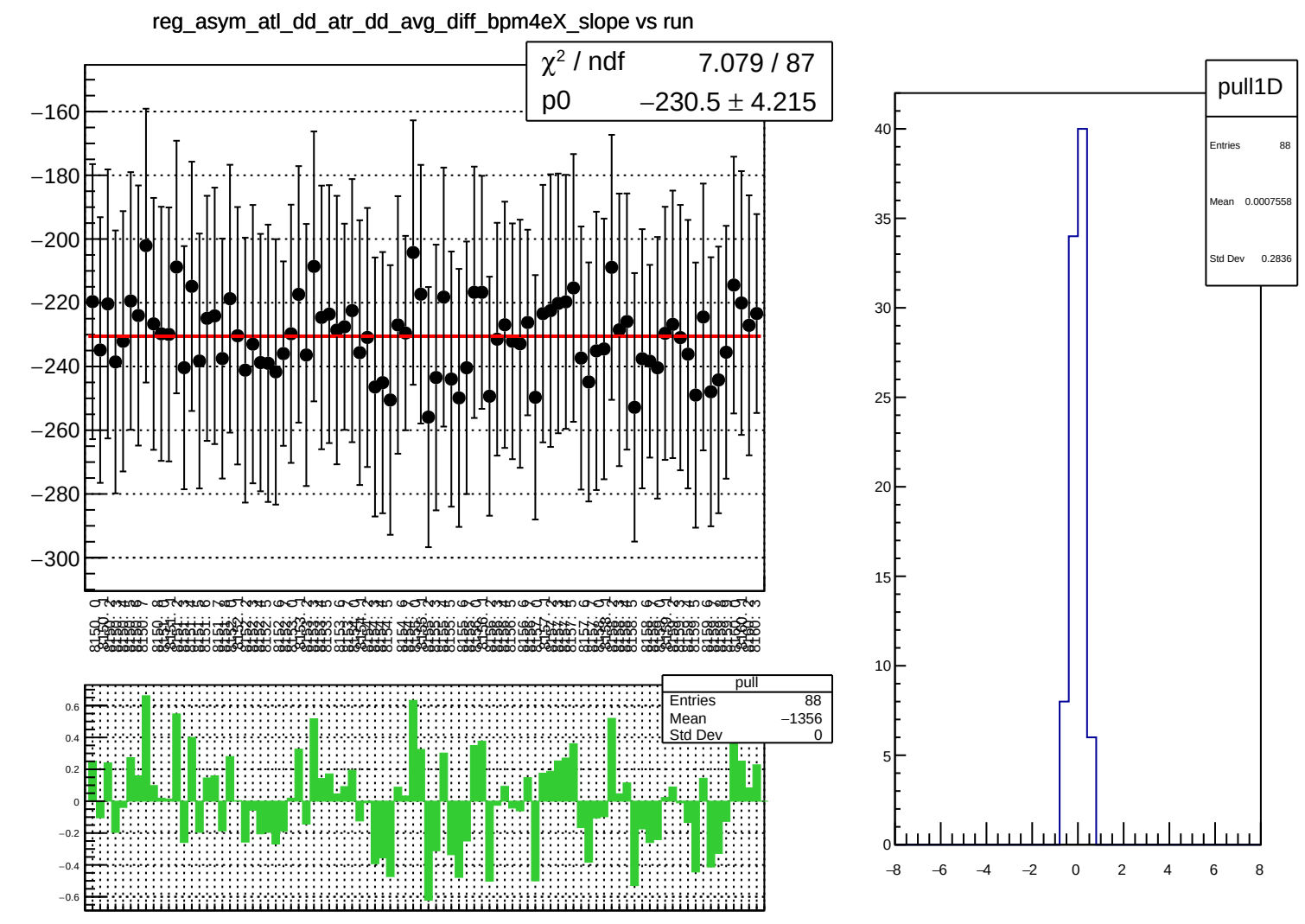

pull1D
Entries 88
Mean 0.003026
Std Dev 0.4471
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

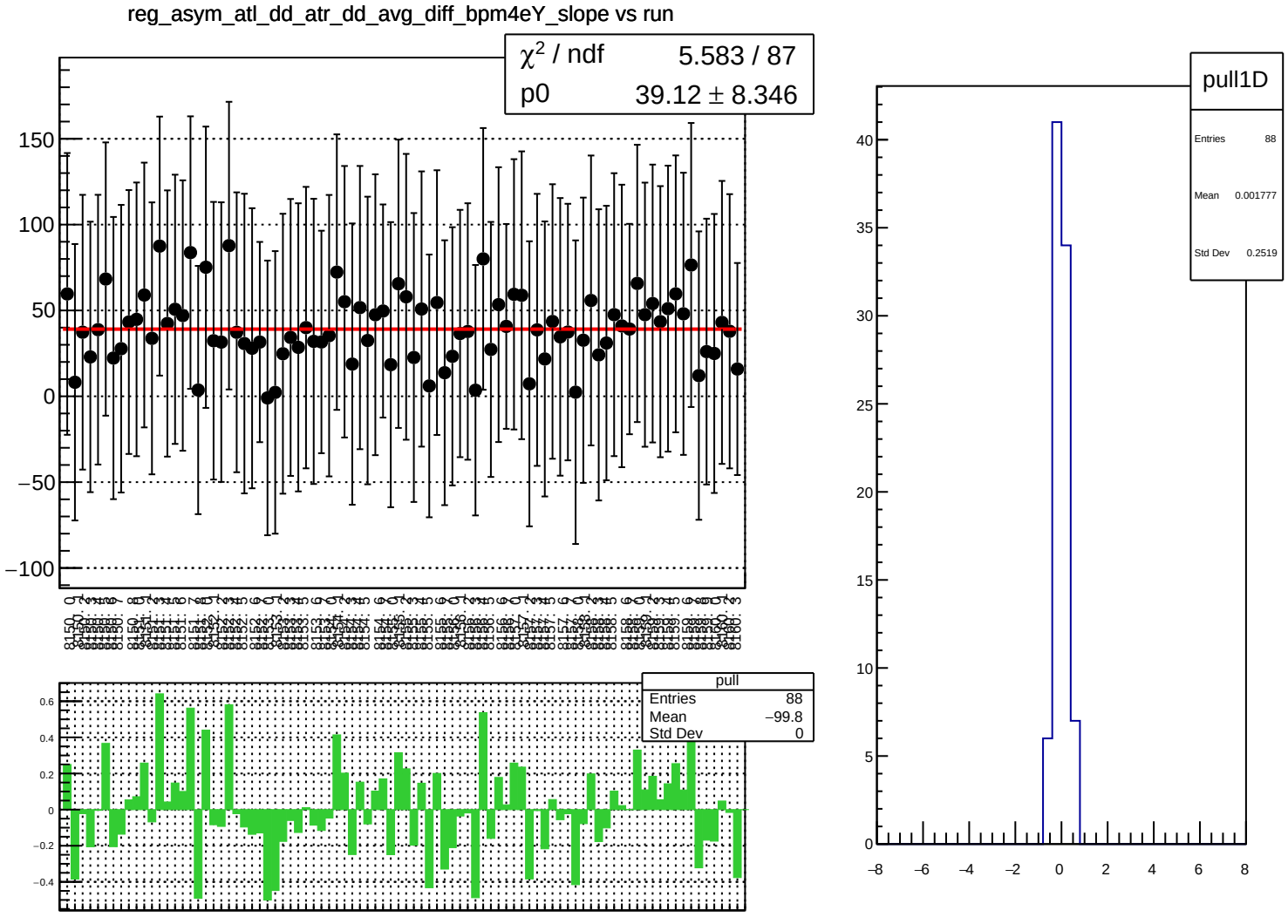

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 17.06 / 87
p0 97.65 ± 0.3026
104
102
100
98
96
94
92
pull
Entries 88
Mean −32.64
Std Dev 0
1
0.5
0
−0.5
−1

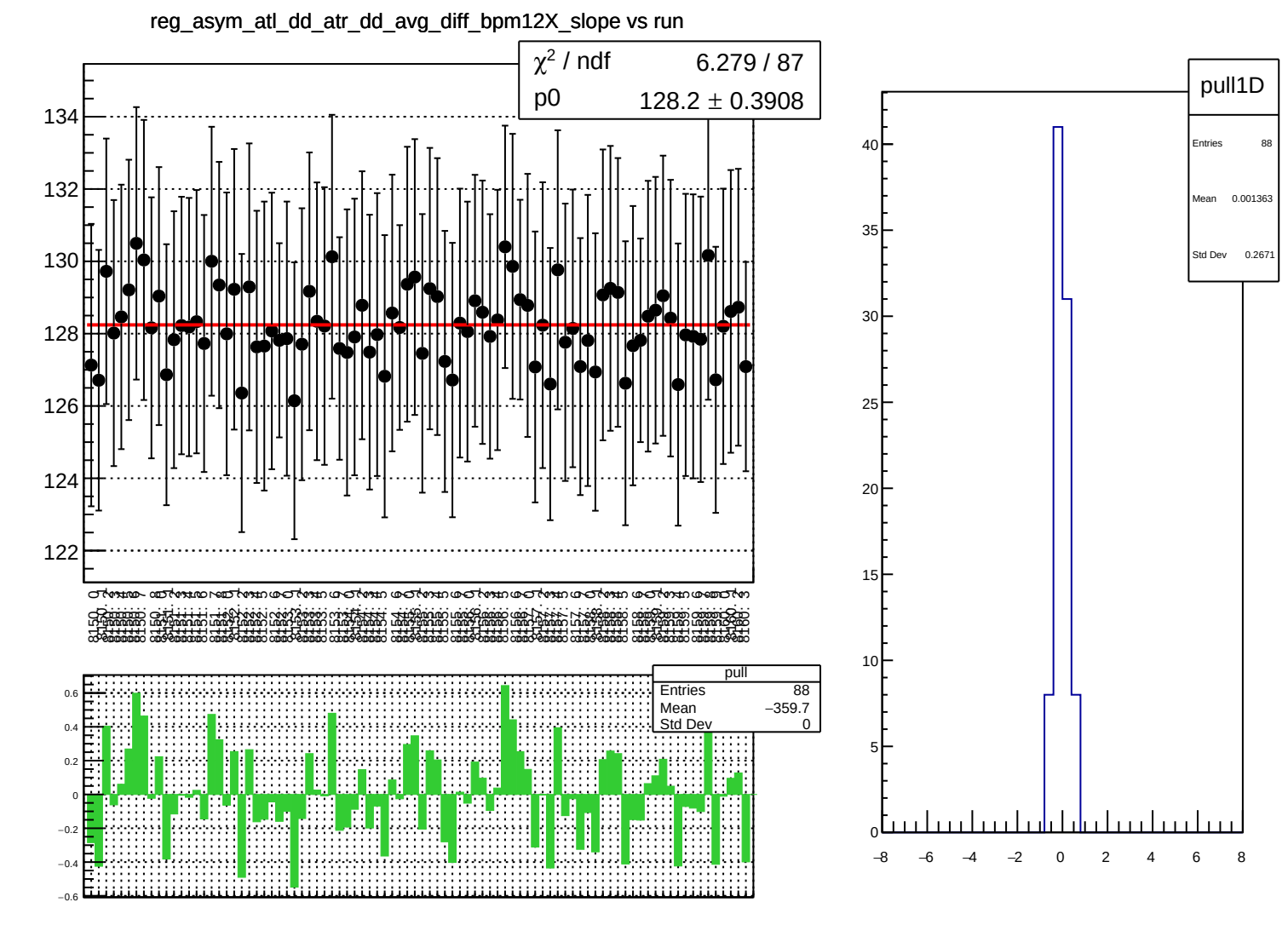

pull1D
Entries 88
Mean 0.004324
Std Dev 0.4403
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

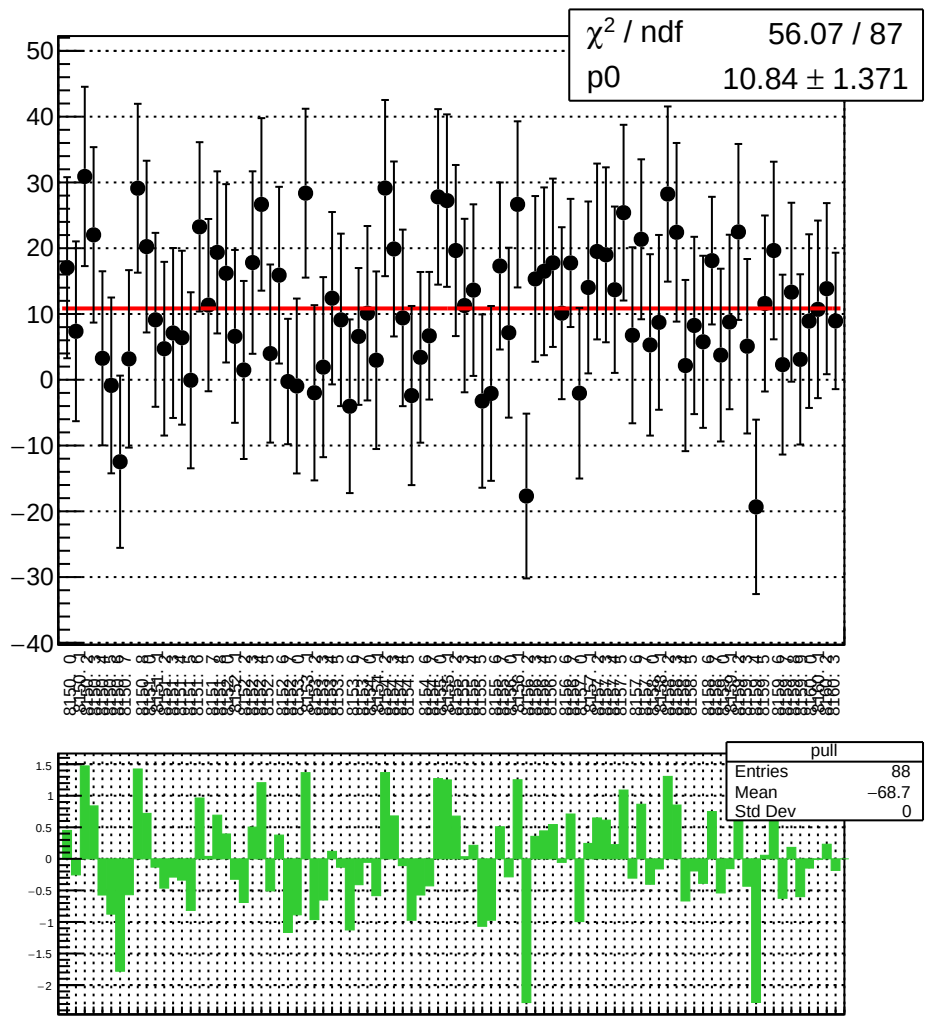

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 7.515 / 87
p0 242.8 ± 4.159
pull
Entries 88
Mean 1710
Std Dev 0
pull1D
Entries 88
Mean 0.0005152
Std Dev 0.2922

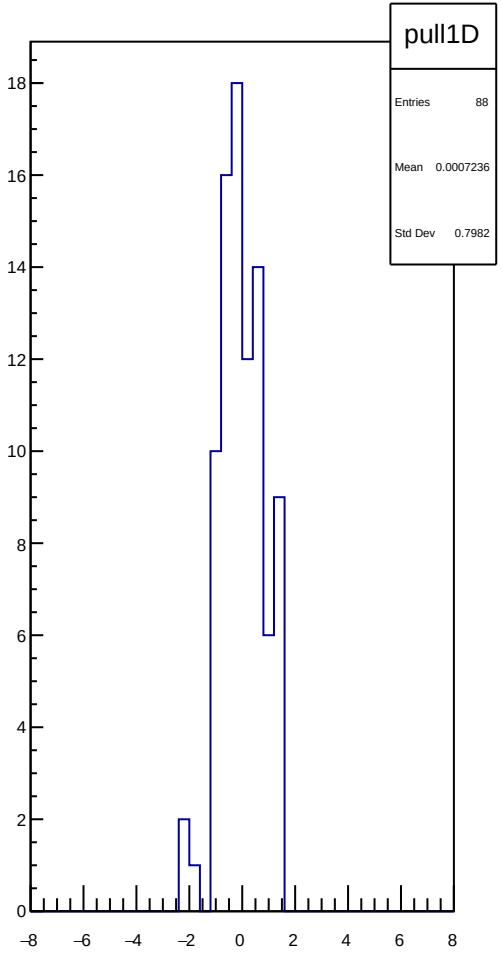

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.273 / 87
p0 −96.85 ± 7.789
0
−50
−100
−150
−200
pull
Entries 88
Mean −223.4
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.001514
Std Dev 0.2448
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

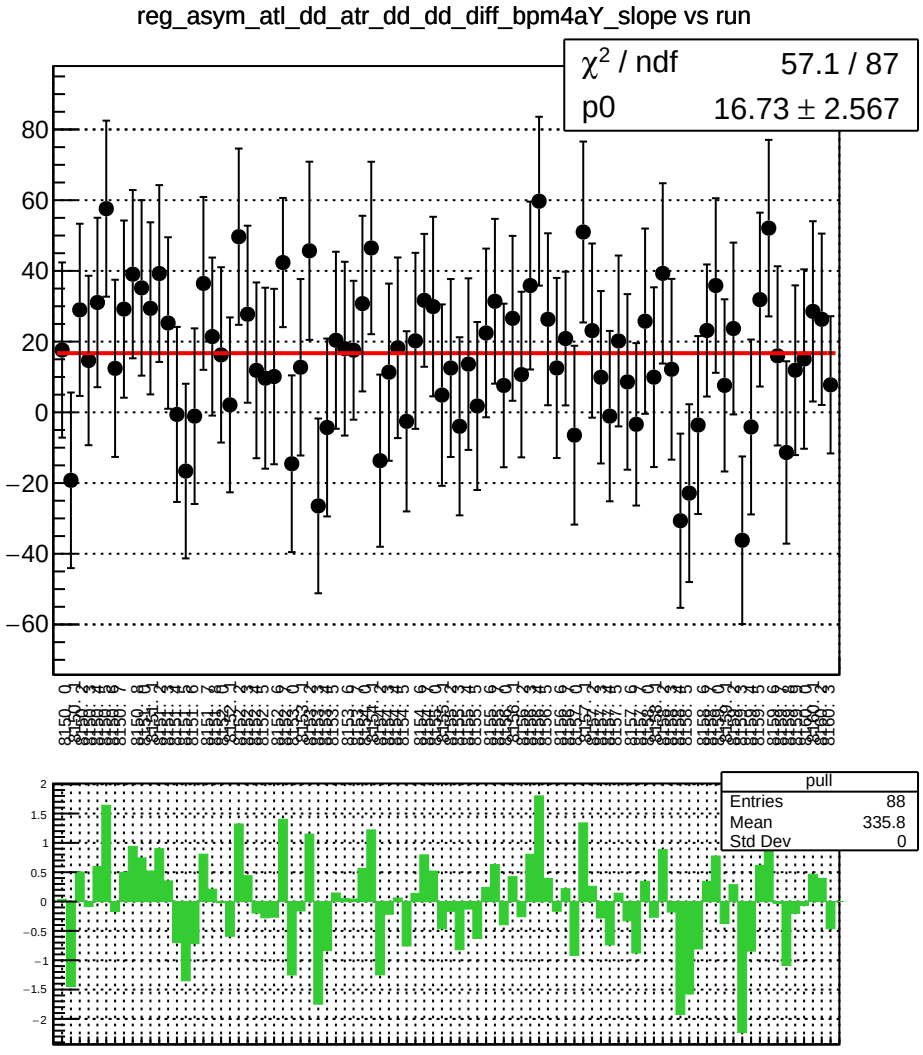

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.079 / 87
p0 −230.5 ± 4.215
pull
Entries 88
Mean −1356
Std Dev 0
pull1D
Entries 88
Mean 0.0007558
Std Dev 0.2836

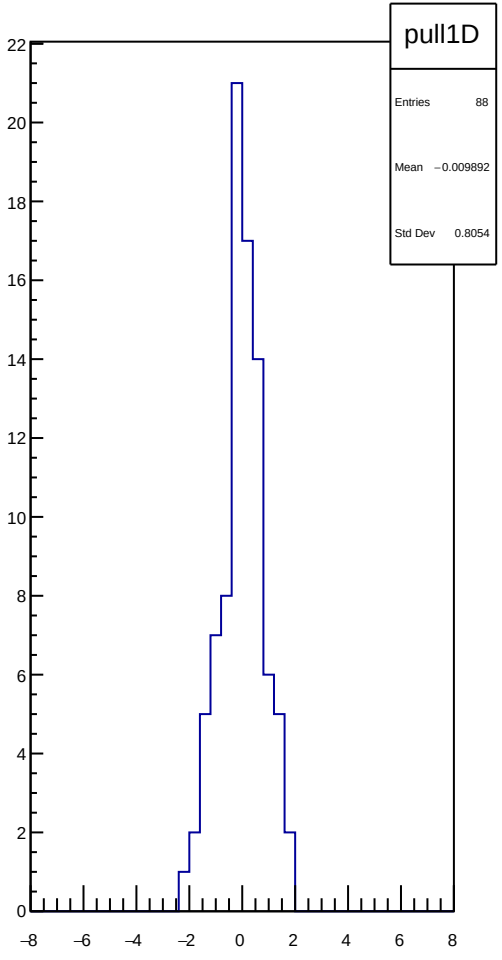

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.583 / 87
p0 39.12 ± 8.346
150
100
50
0
−50
−100
pull
Entries 88
Mean −99.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean 0.001777
Std Dev 0.2519
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

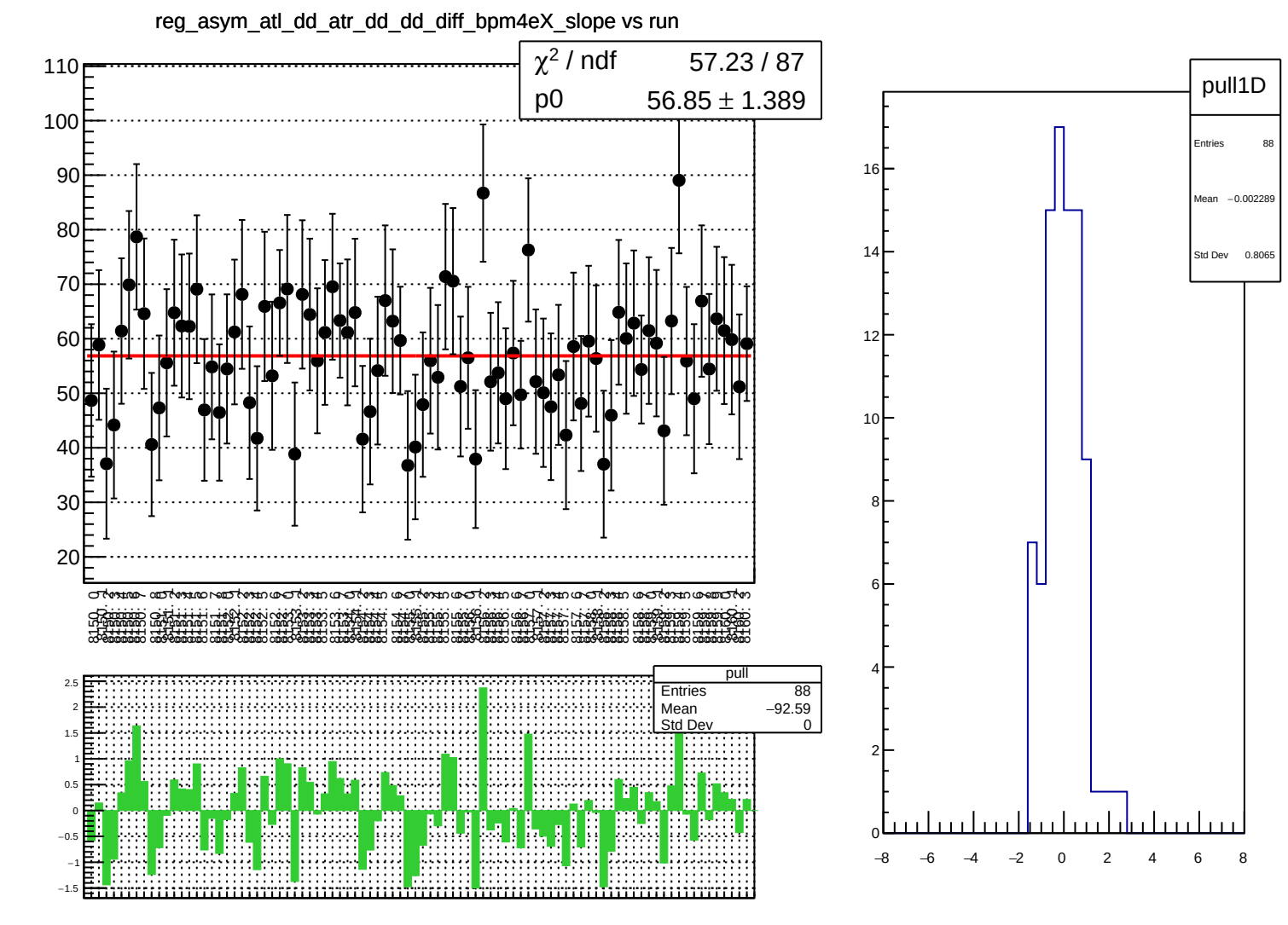

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 6.279 / 87
p0 128.2 ± 0.3908
pull
Entries 88
Mean −359.7
Std Dev 0
pull1D
Entries 88
Mean 0.001363
Std Dev 0.2671

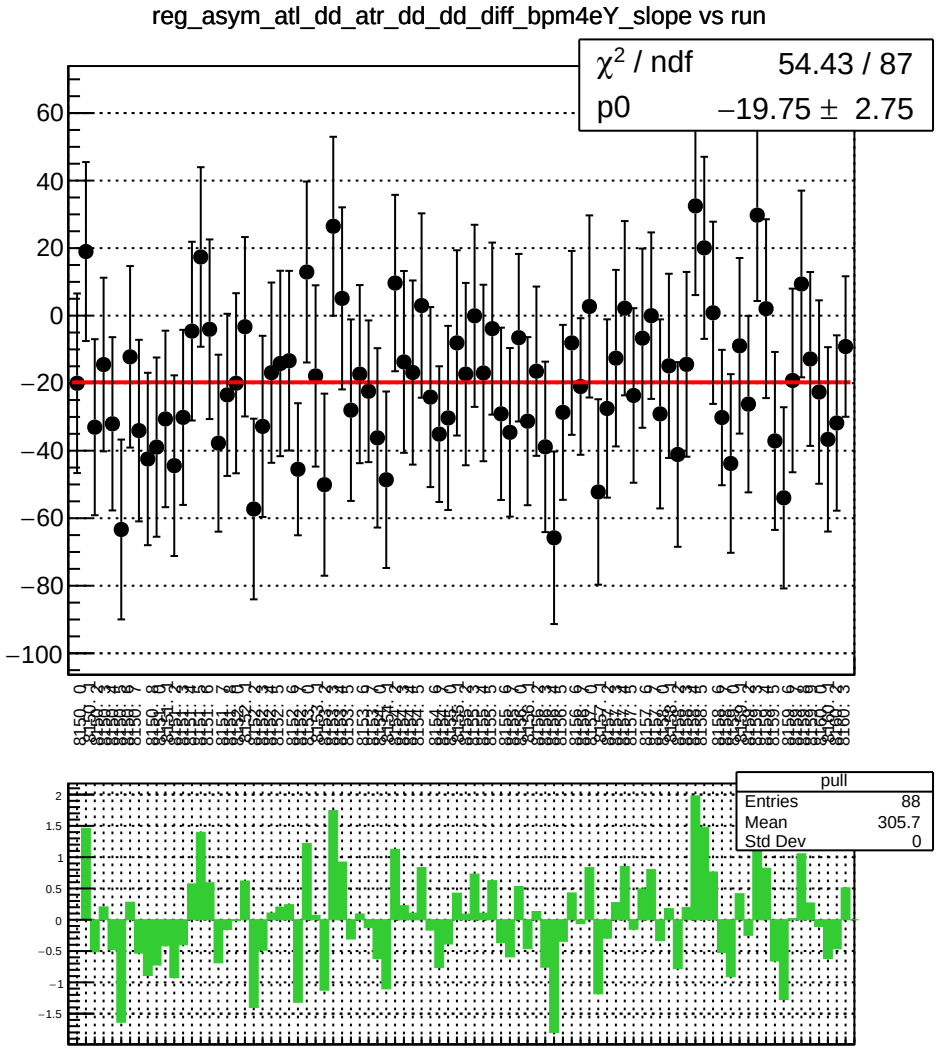

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 56.07 / 87
p0 10.84 ± 1.371
pull
Entries 88
Mean −68.7
Std Dev 0

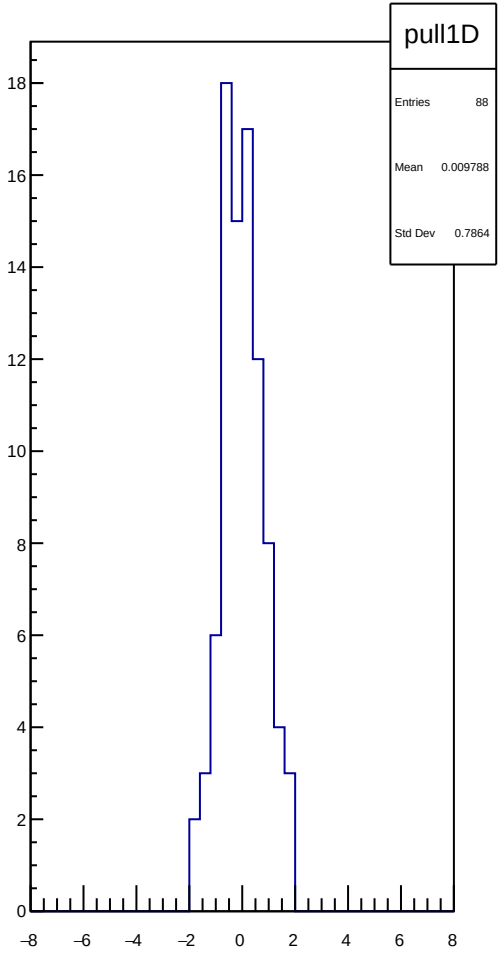

pull1D
Entries 88
Mean 0.0007236
Std Dev 0.7982

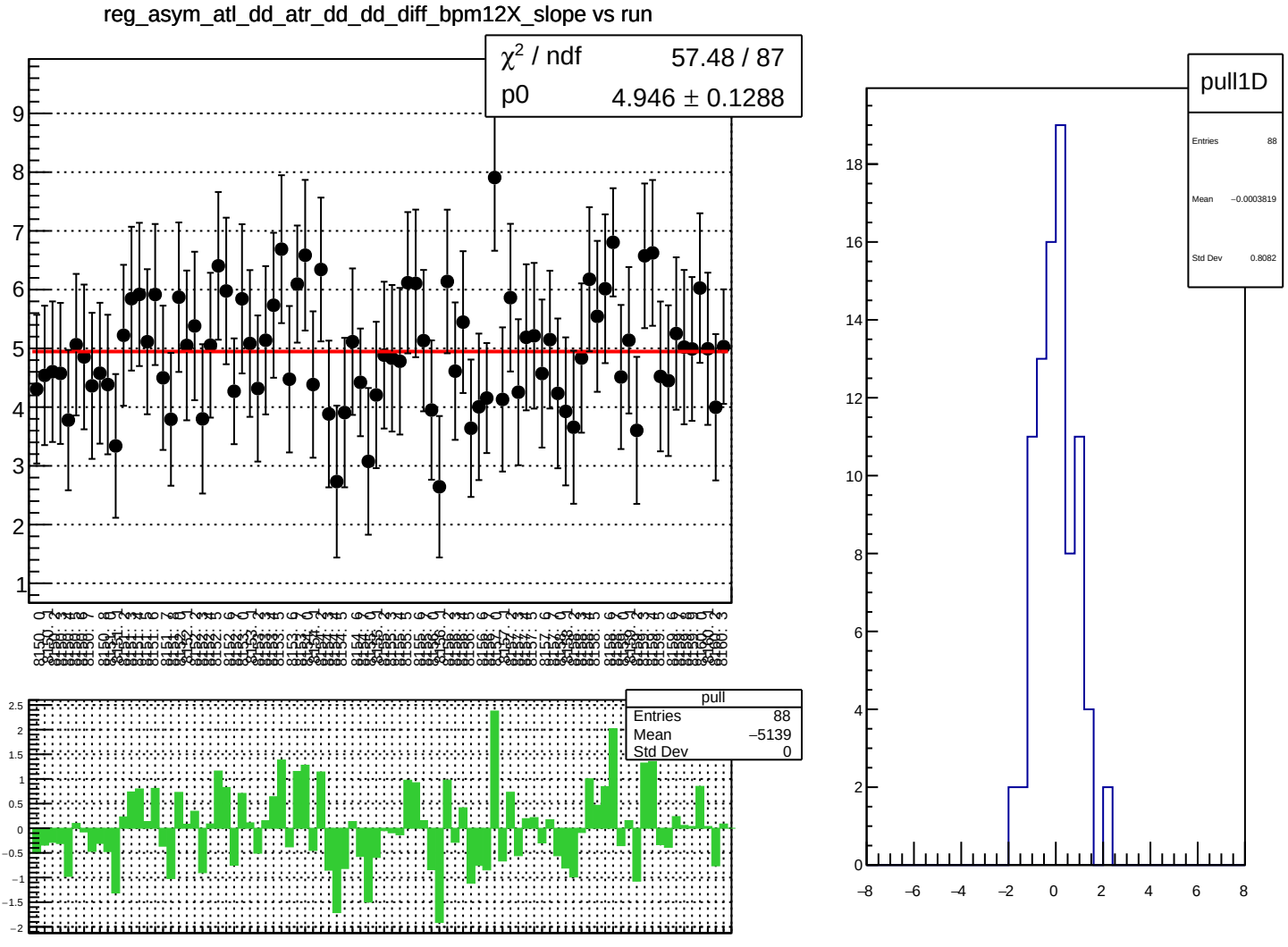

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.1 / 87
p0 16.73 ± 2.567
pull
Entries 88
Mean 335.8
Std Dev 0

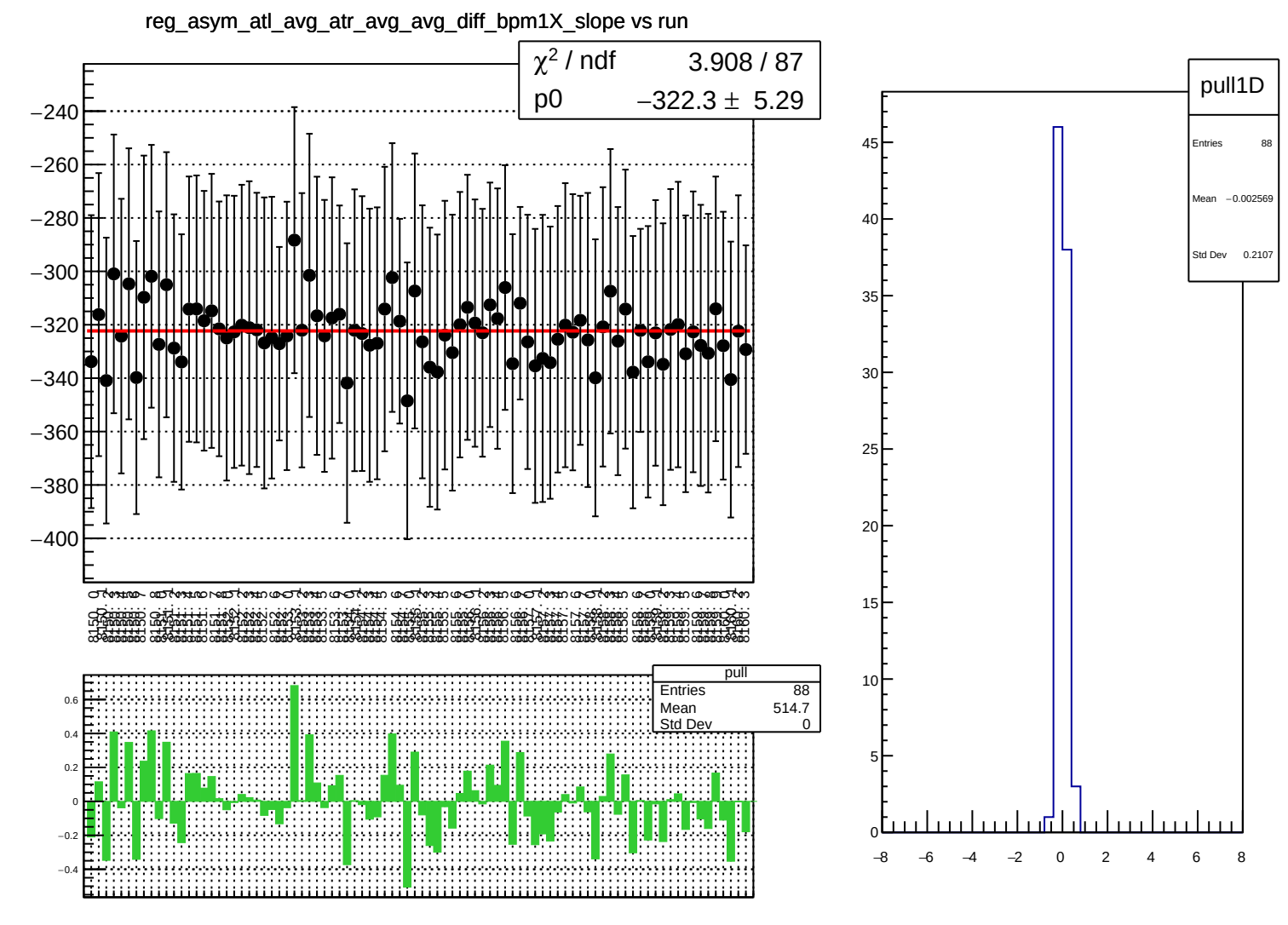

pull1D
Entries 88
Mean −0.009892
Std Dev 0.8054

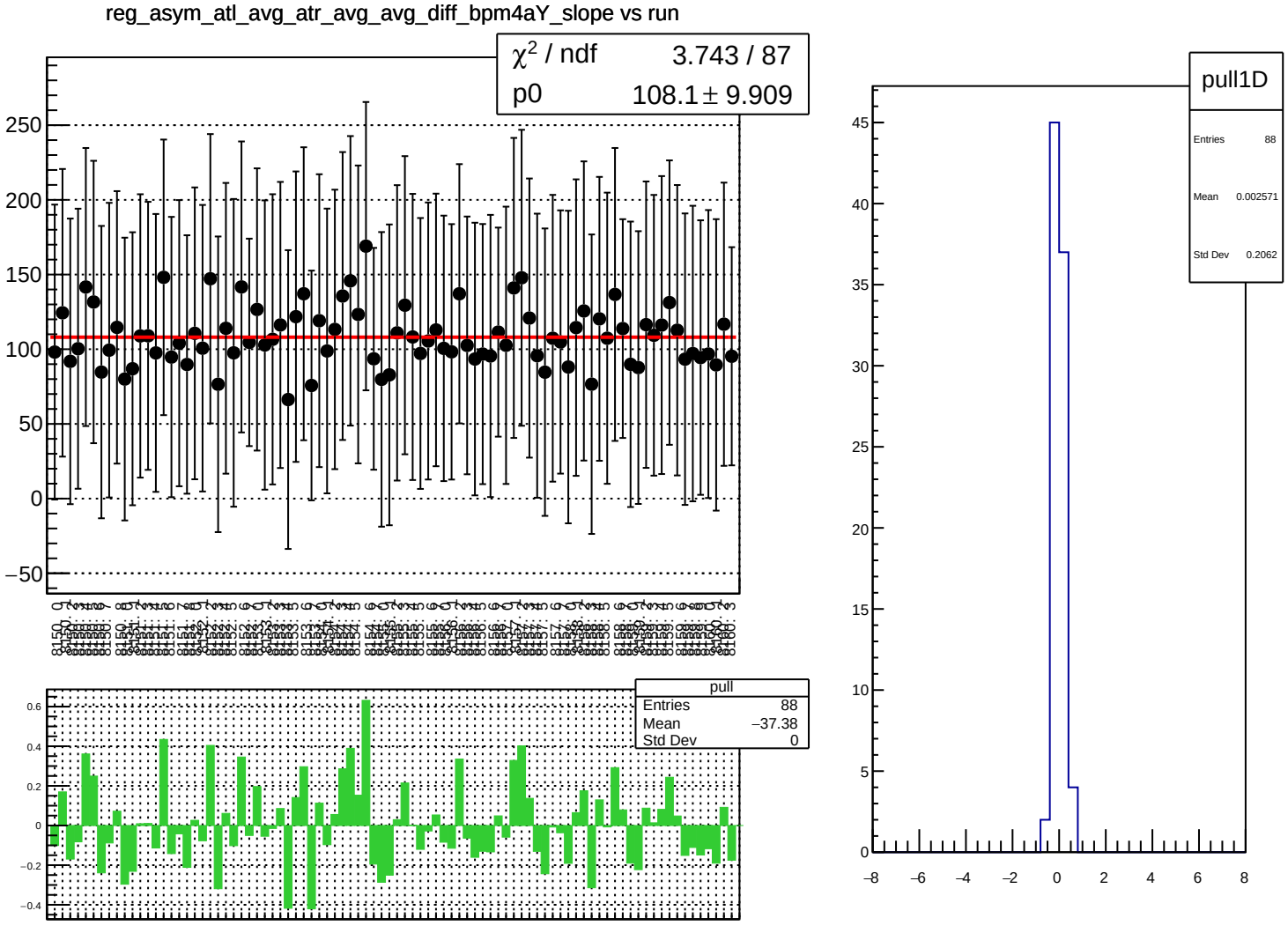

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.23 / 87
p0 56.85 ± 1.389
pull
Entries 88
Mean −92.59
Std Dev 0
pull1D
Entries 88
Mean −0.002289
Std Dev 0.8065

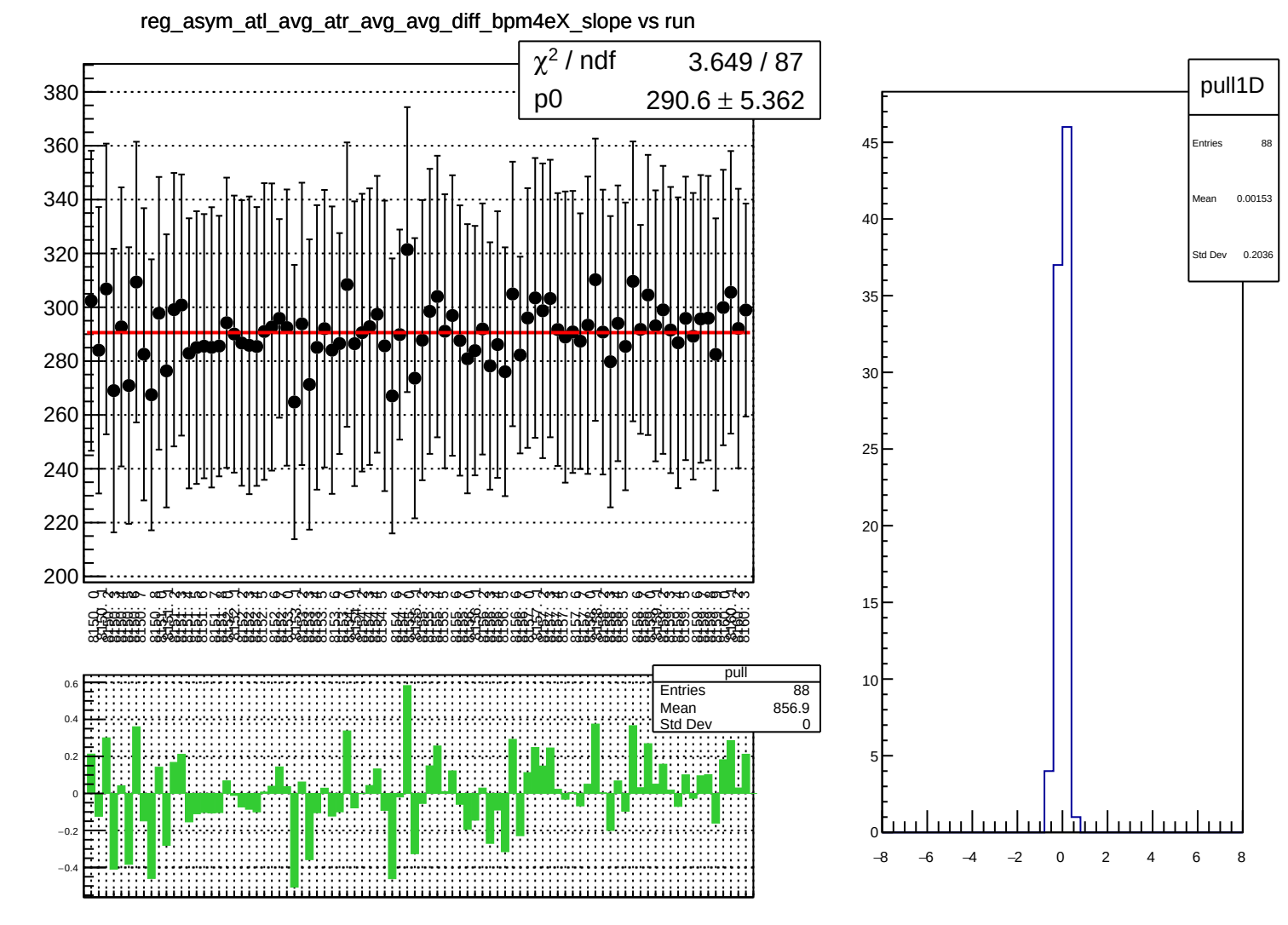

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.43 / 87
p0 −19.75 ± 2.75
pull
Entries 88
Mean 305.7
Std Dev 0

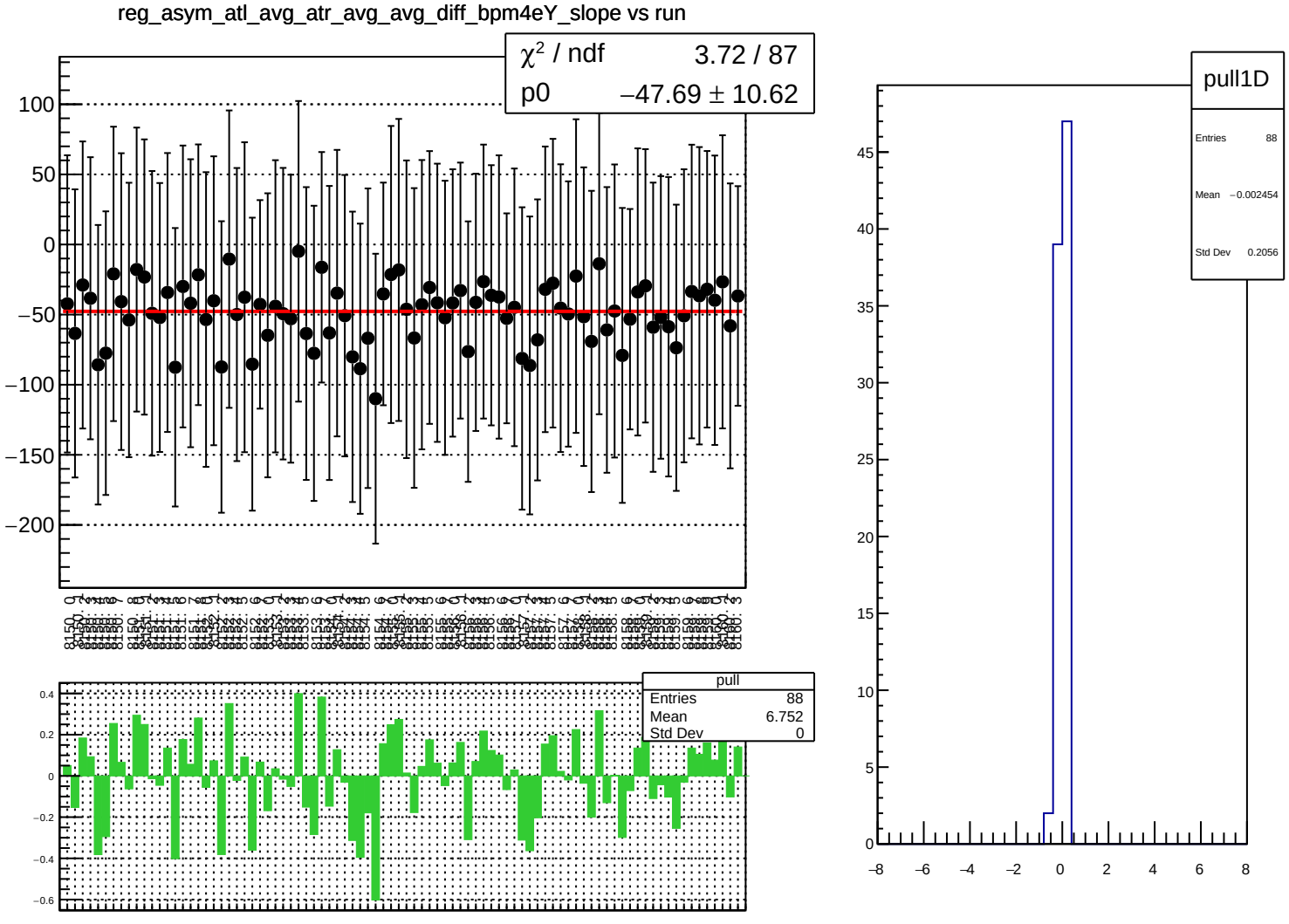

pull1D
Entries 88
Mean 0.009788
Std Dev 0.7864

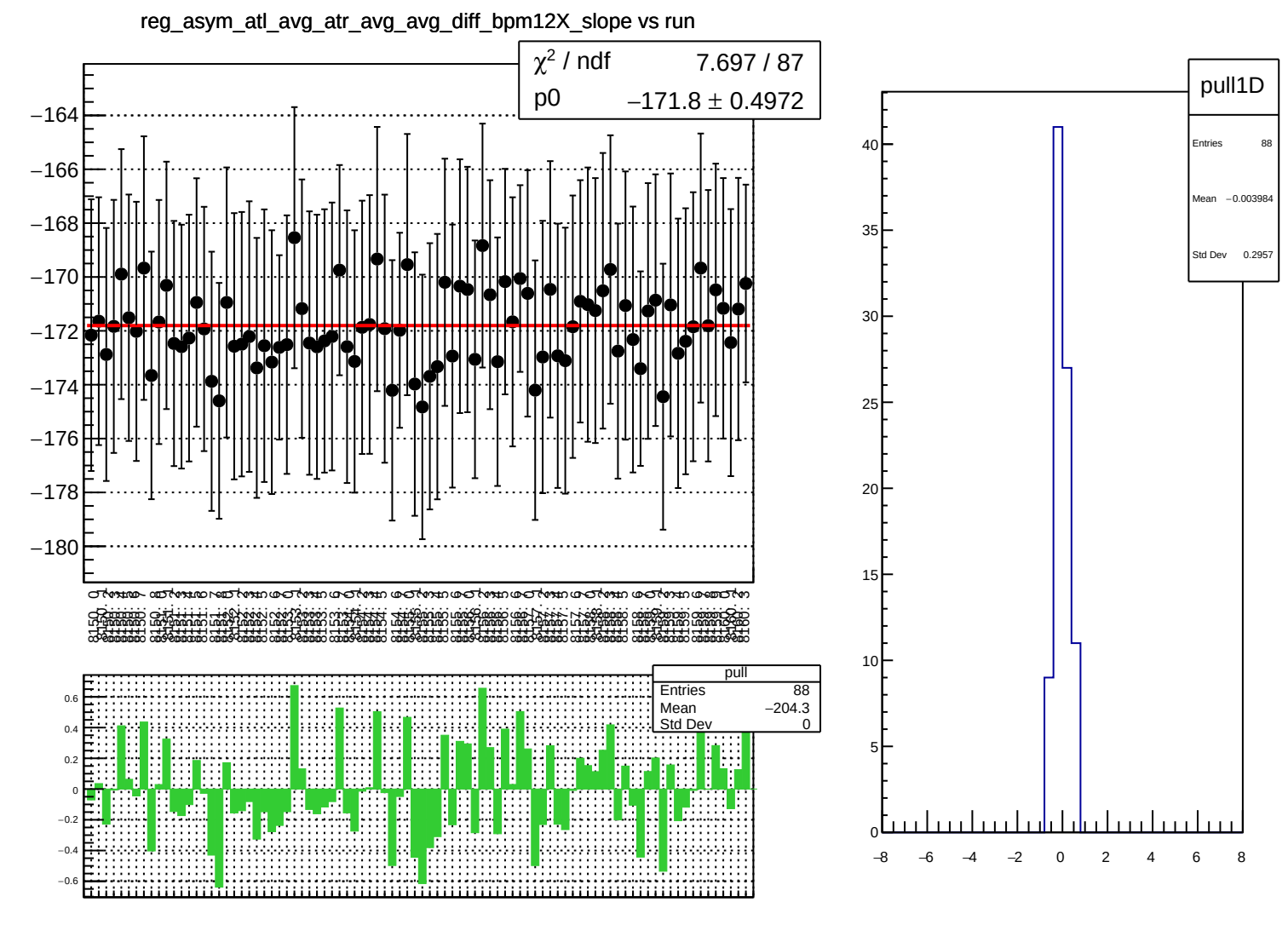

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 57.48 / 87
p0 4.946 ± 0.1288
pull
Entries 88
Mean −5139
Std Dev 0
pull1D
Entries 88
Mean −0.0003819
Std Dev 0.8082

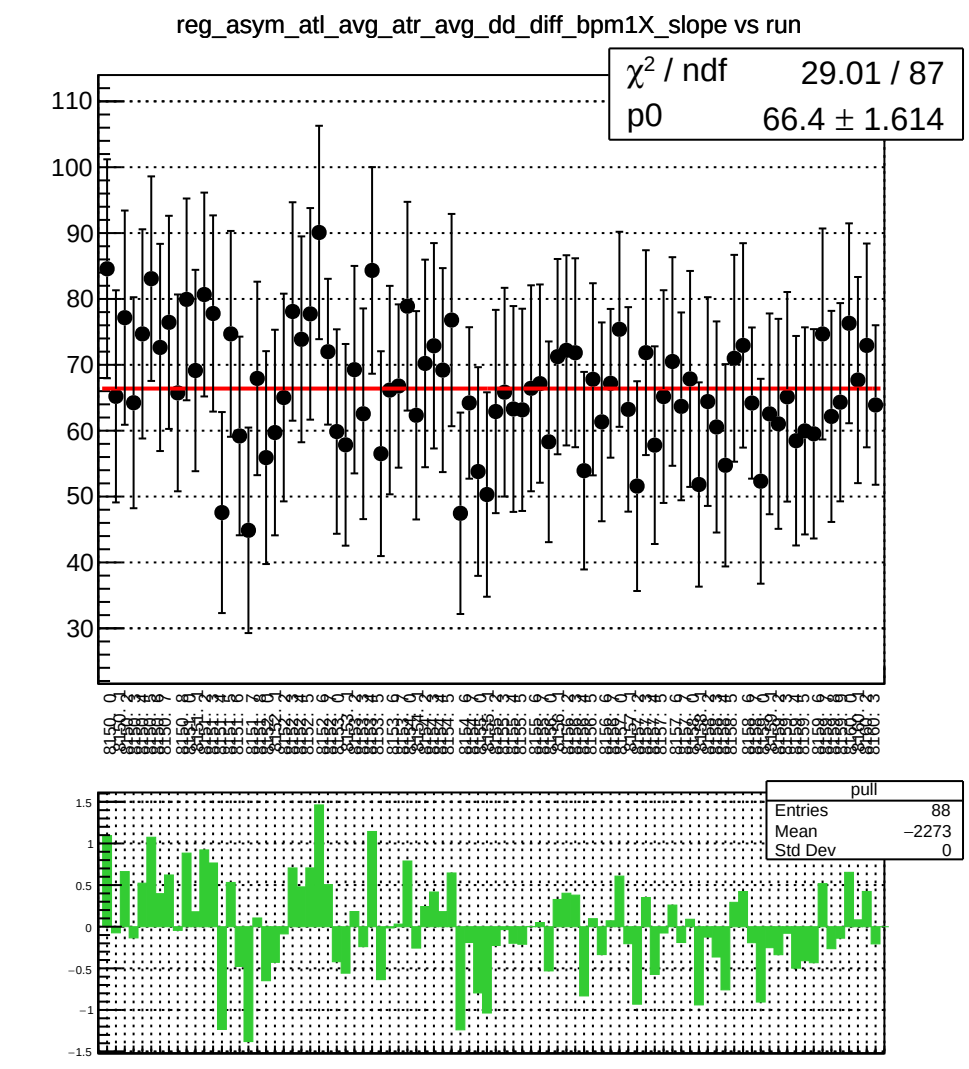

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 3.908 / 87
p0 −322.3 ± 5.29
pull
Entries 88
Mean 514.7
Std Dev 0
pull1D
Entries 88
Mean −0.002569
Std Dev 0.2107

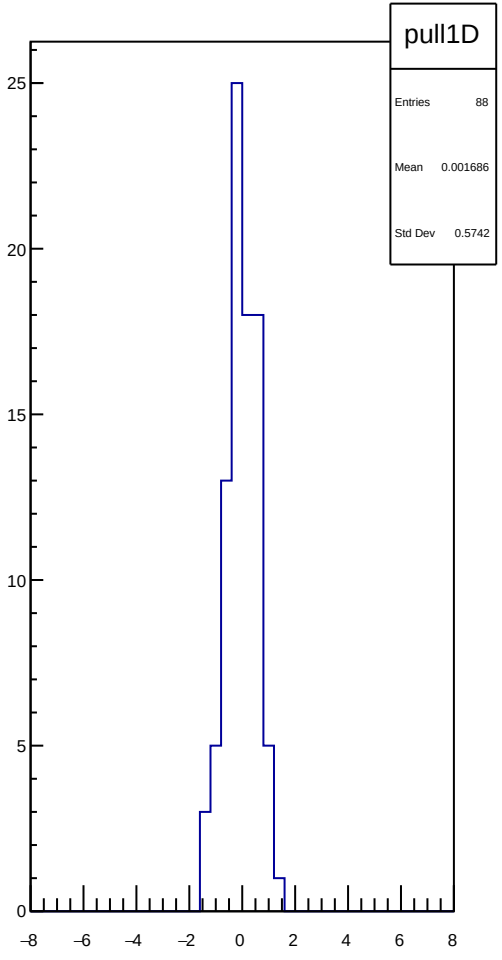

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.743 / 87
p0 108.1 ± 9.909
pull
Entries 88
Mean −37.38
Std Dev 0
pull1D
Entries 88
Mean 0.002571
Std Dev 0.2062

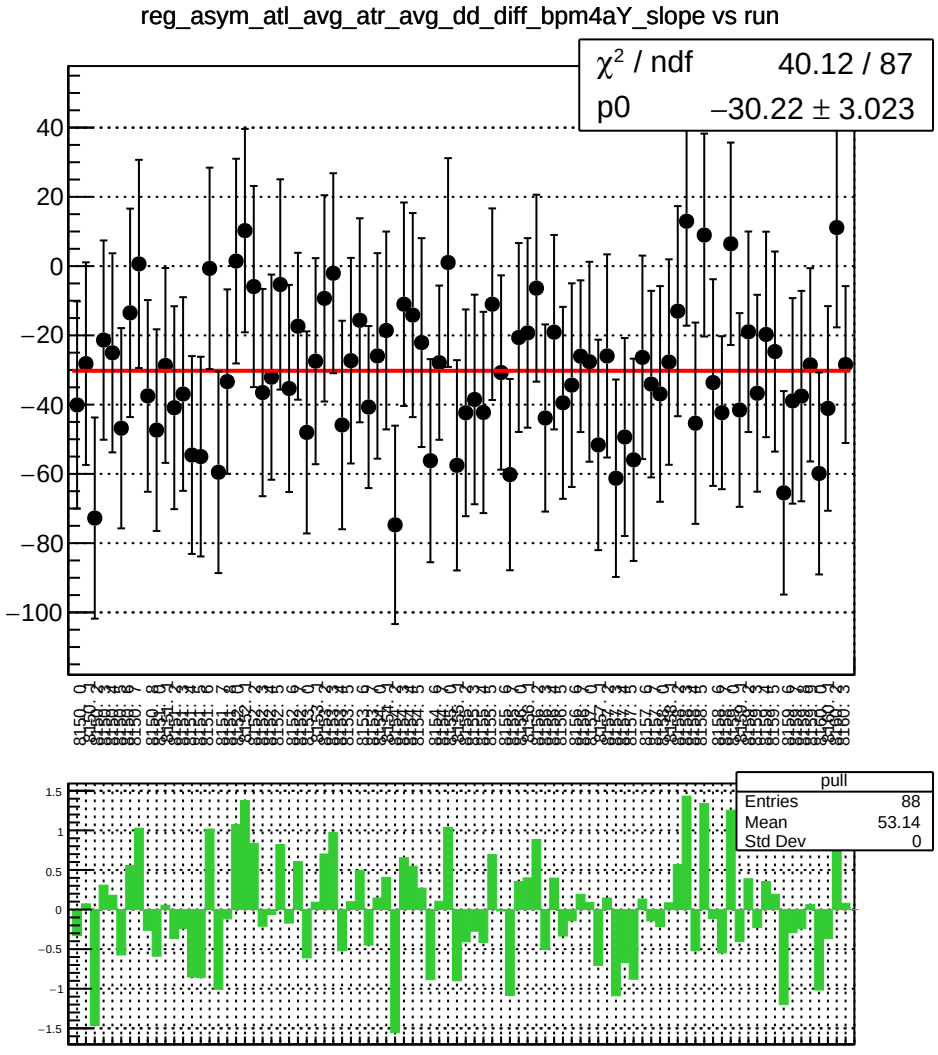

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.649 / 87
p0 290.6 ± 5.362
pull
Entries 88
Mean 856.9
Std Dev 0
pull1D
Entries 88
Mean 0.00153
Std Dev 0.2036

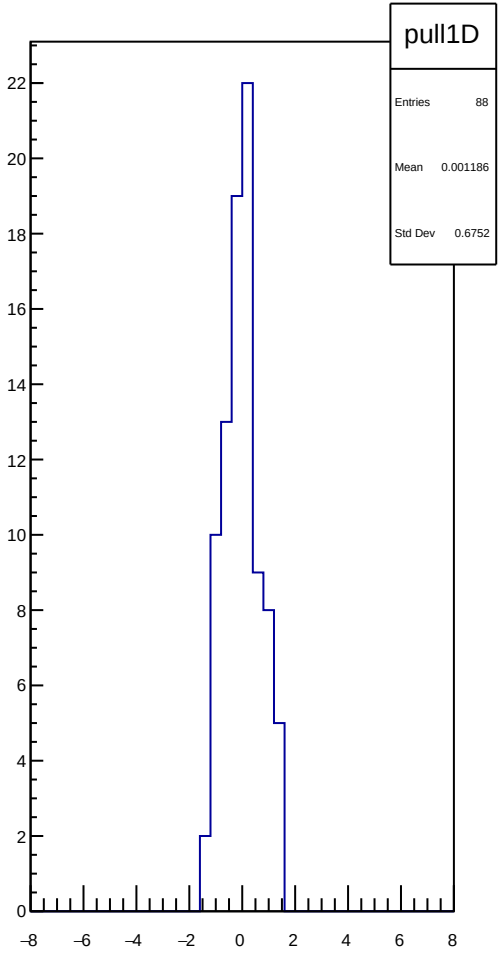

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.72 / 87
p0 −47.69 ± 10.62
pull
Entries 88
Mean 6.752
Std Dev 0
pull1D
Entries 88
Mean −0.002454
Std Dev 0.2056

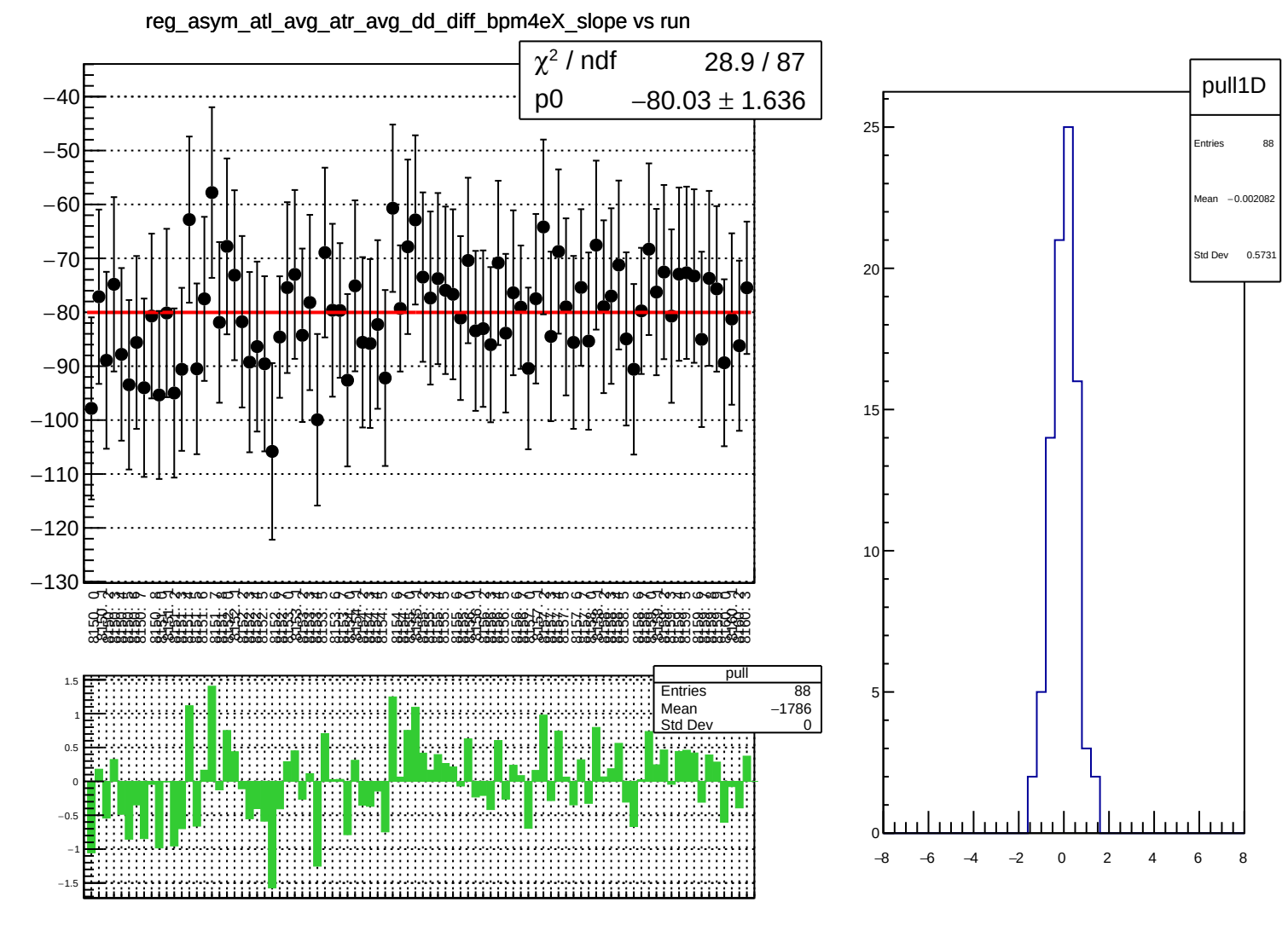

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 7.697 / 87
p0 −171.8 ± 0.4972
pull
Entries 88
Mean −204.3
Std Dev 0
pull1D
Entries 88
Mean −0.003984
Std Dev 0.2957

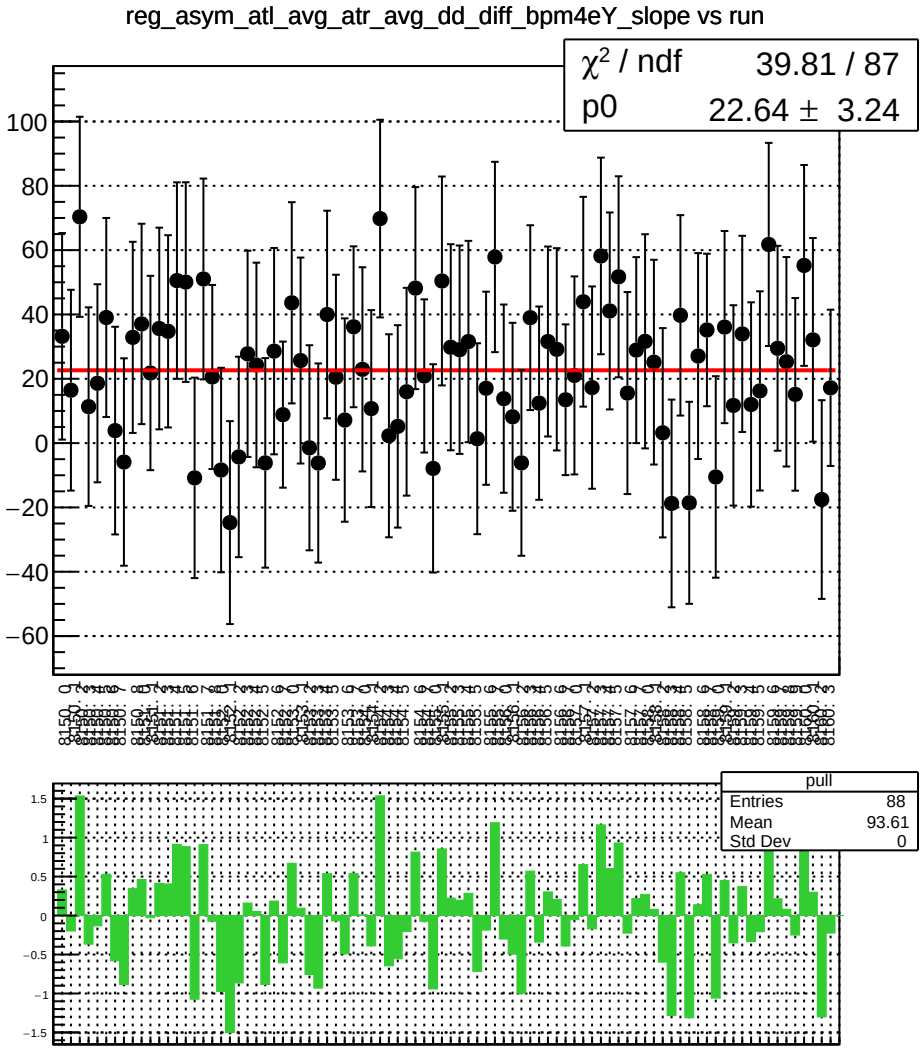

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 29.01 / 87
p0 66.4 ± 1.614
pull
Entries 88
Mean −2273
Std Dev 0

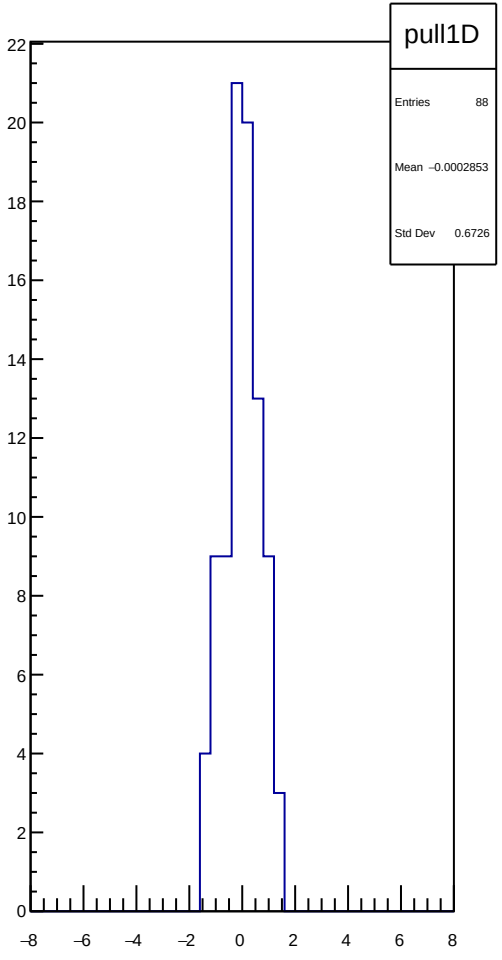

pull1D
Entries 88
Mean 0.001686
Std Dev 0.5742

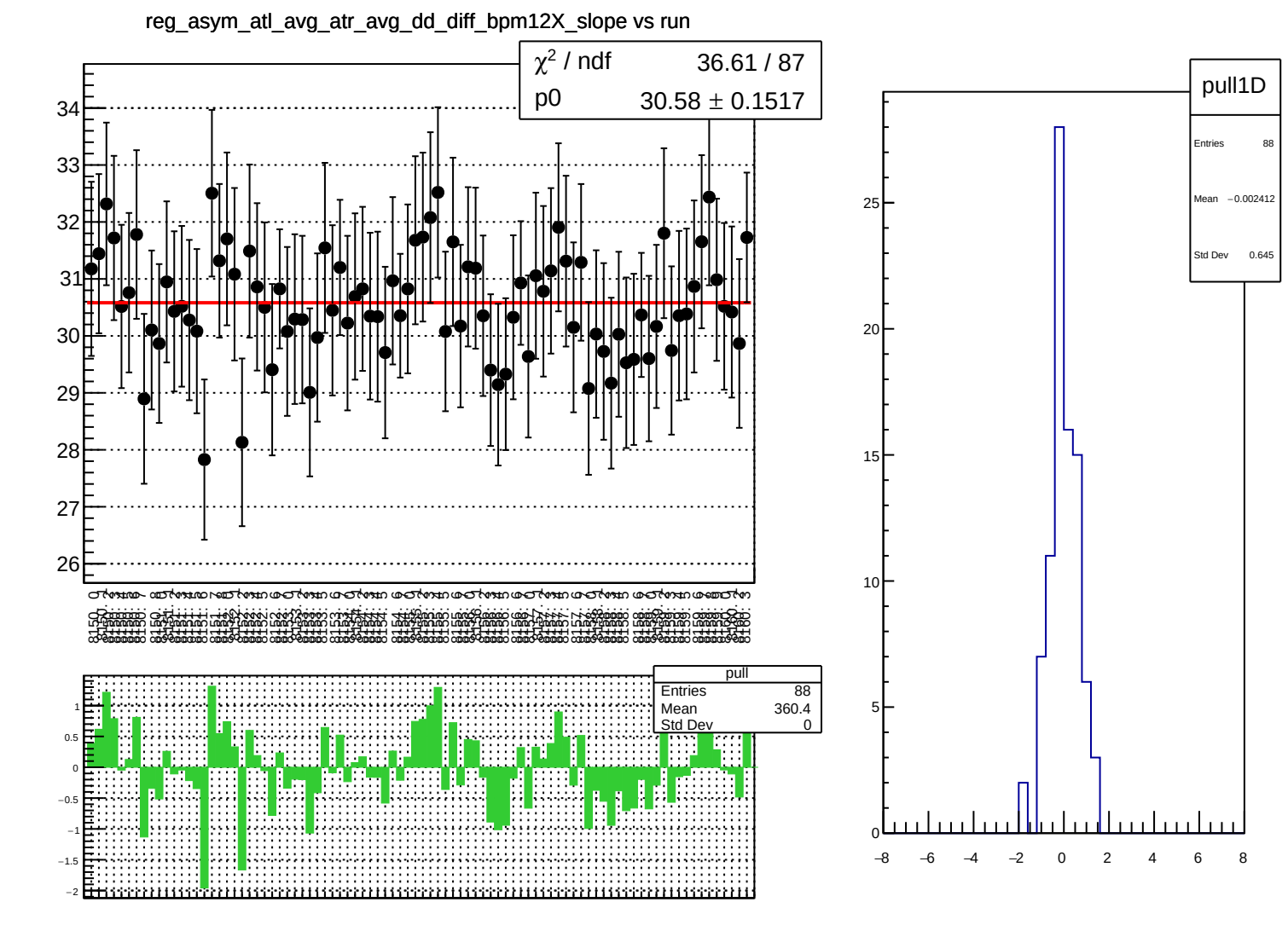

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.12 / 87
p0 −30.22 ± 3.023
pull
Entries 88
Mean 53.14
Std Dev 0

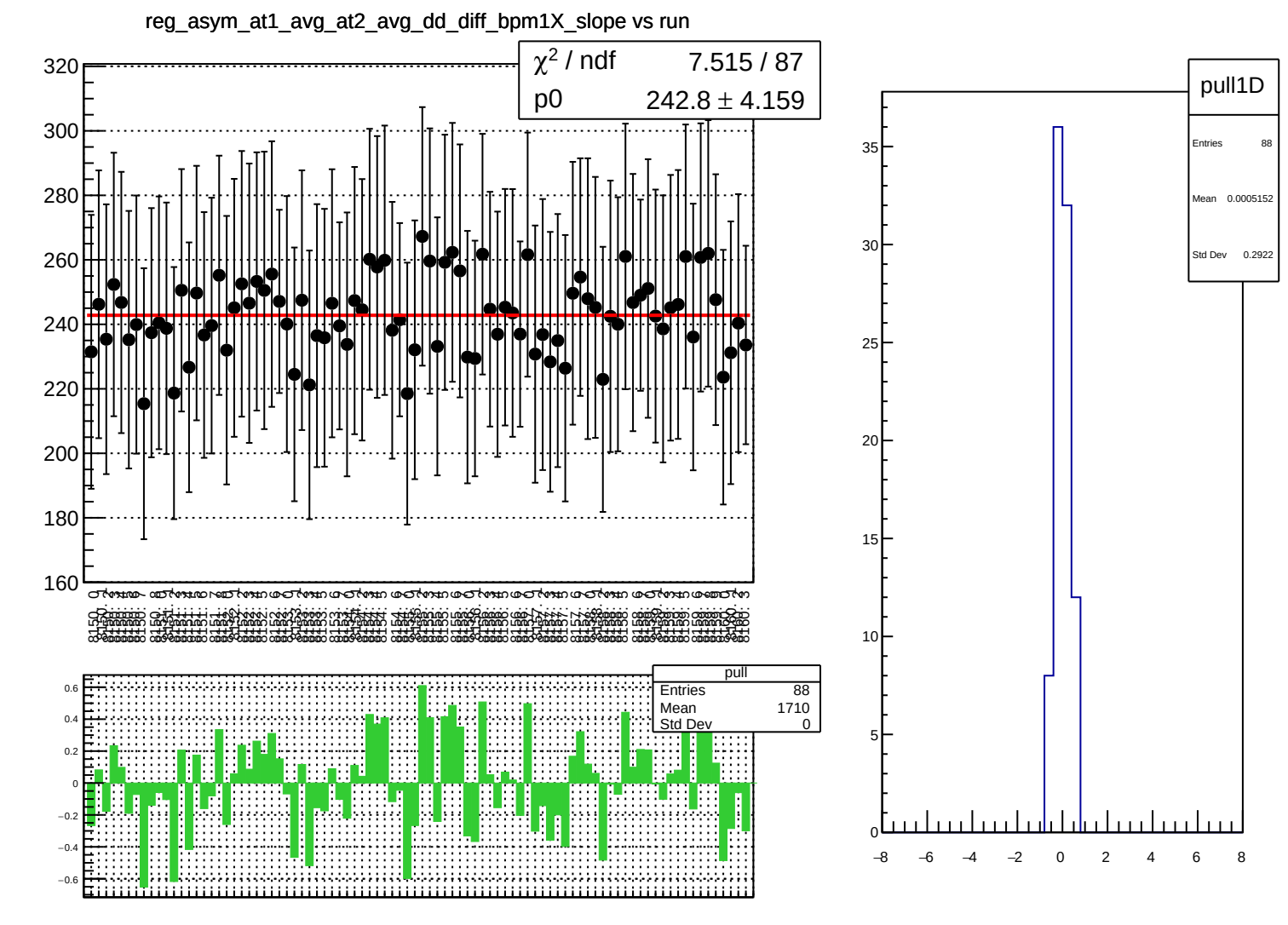

pull1D
Entries 88
Mean 0.001186
Std Dev 0.6752

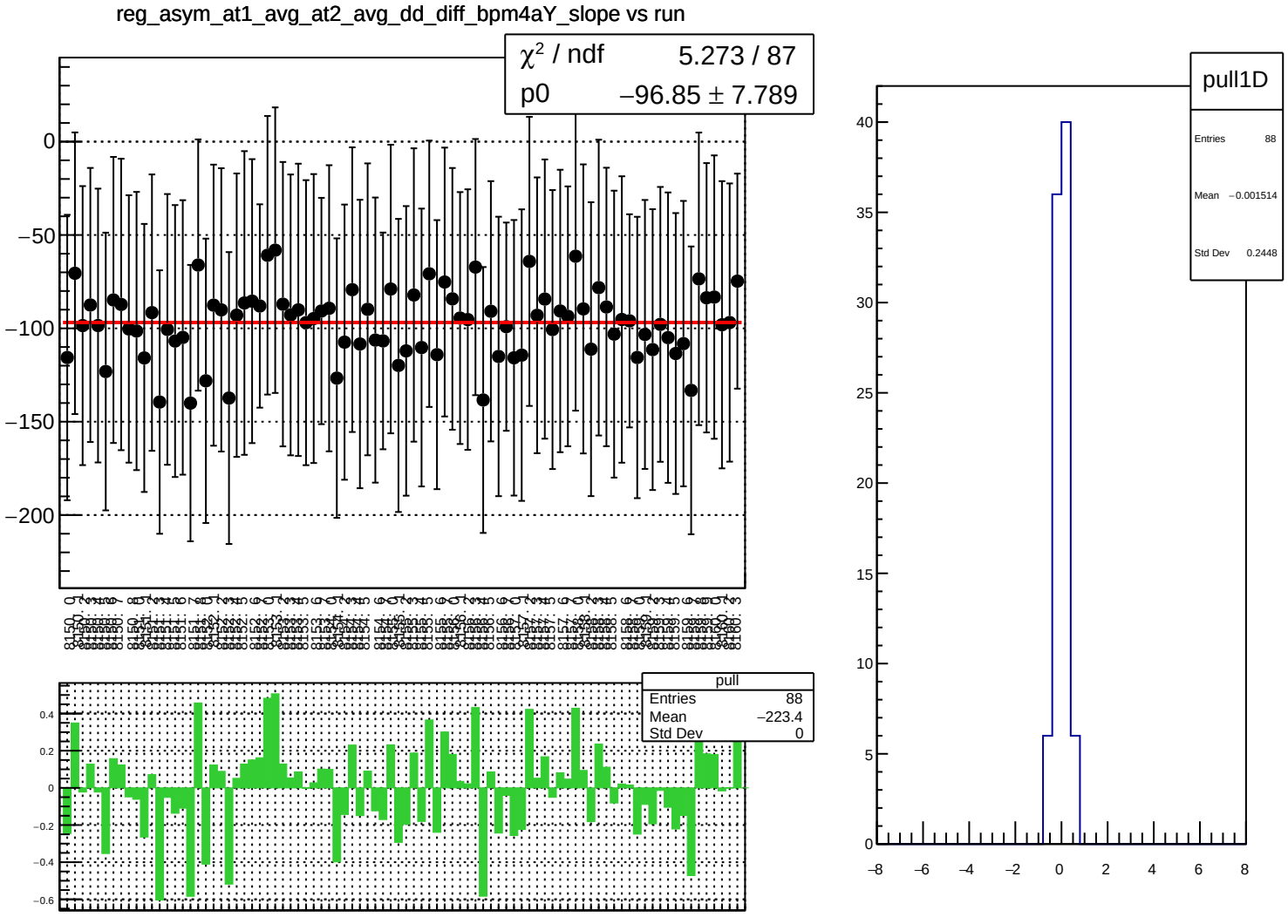

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.9 / 87
p0 −80.03 ± 1.636
pull
Entries 88
Mean −1786
Std Dev 0
pull1D
Entries 88
Mean −0.002082
Std Dev 0.5731

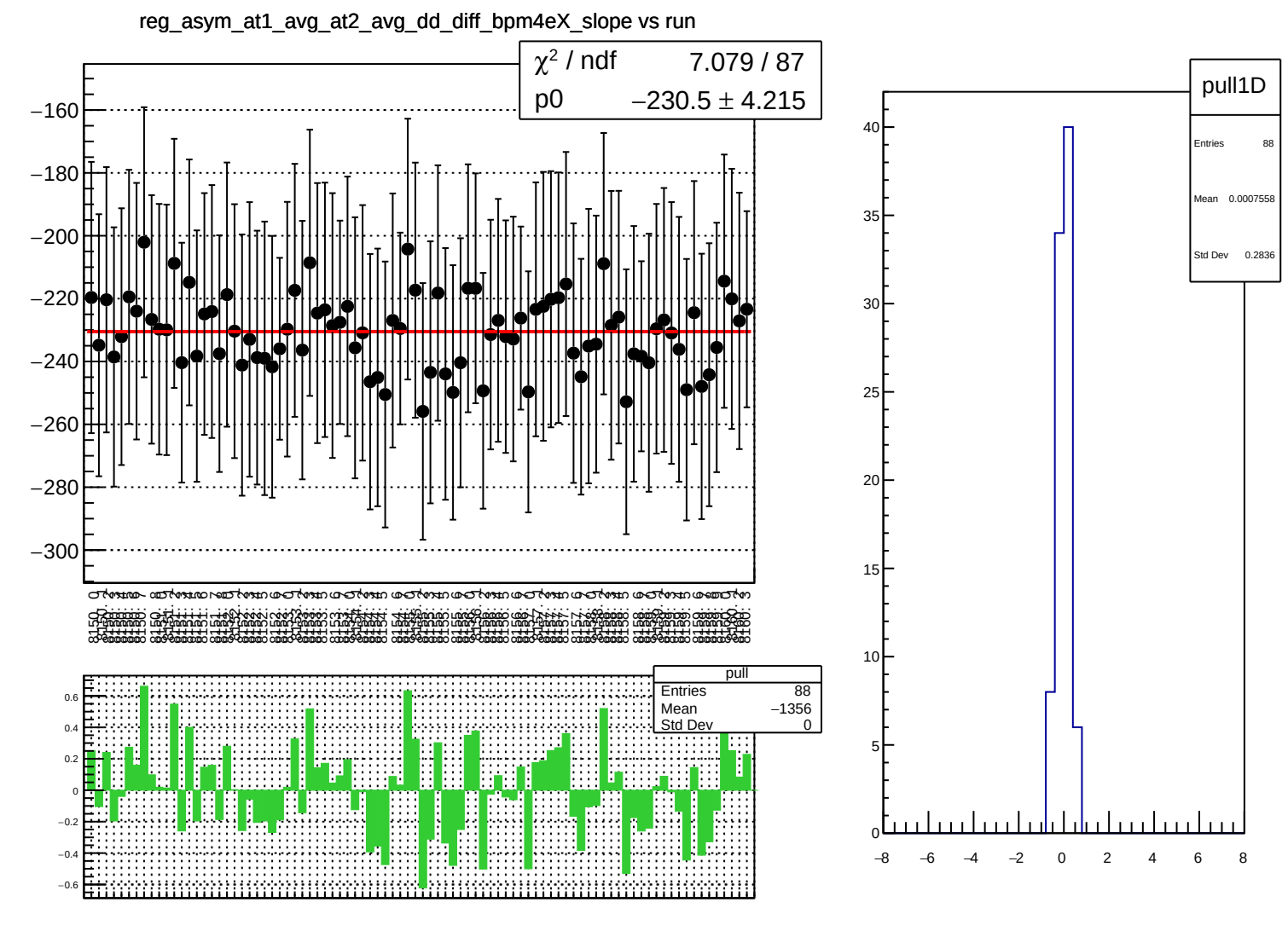

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.81 / 87
p0 22.64 ± 3.24
pull
Entries 88
Mean 93.61
Std Dev 0

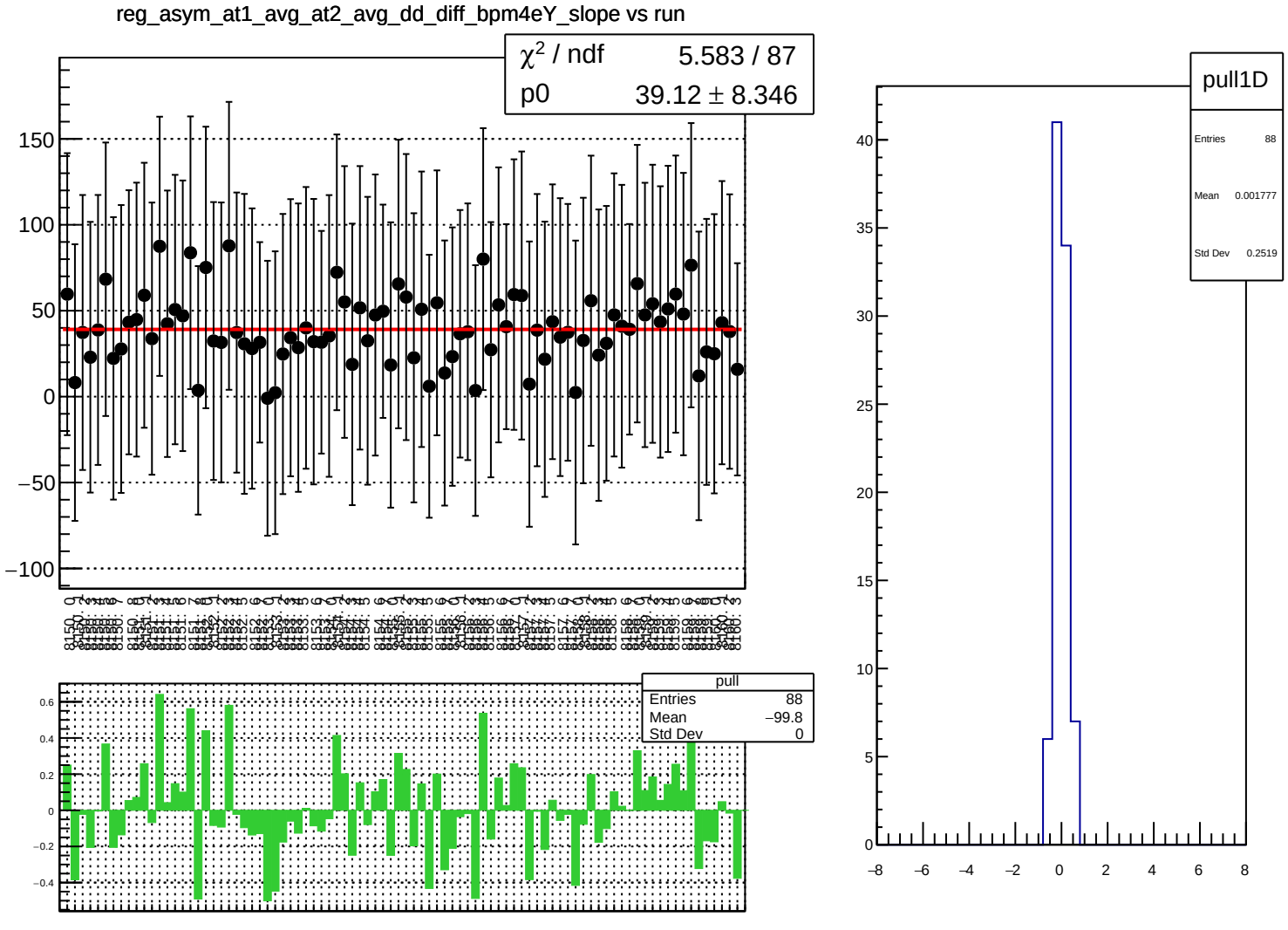

pull1D
Entries 88
Mean −0.0002853
Std Dev 0.6726

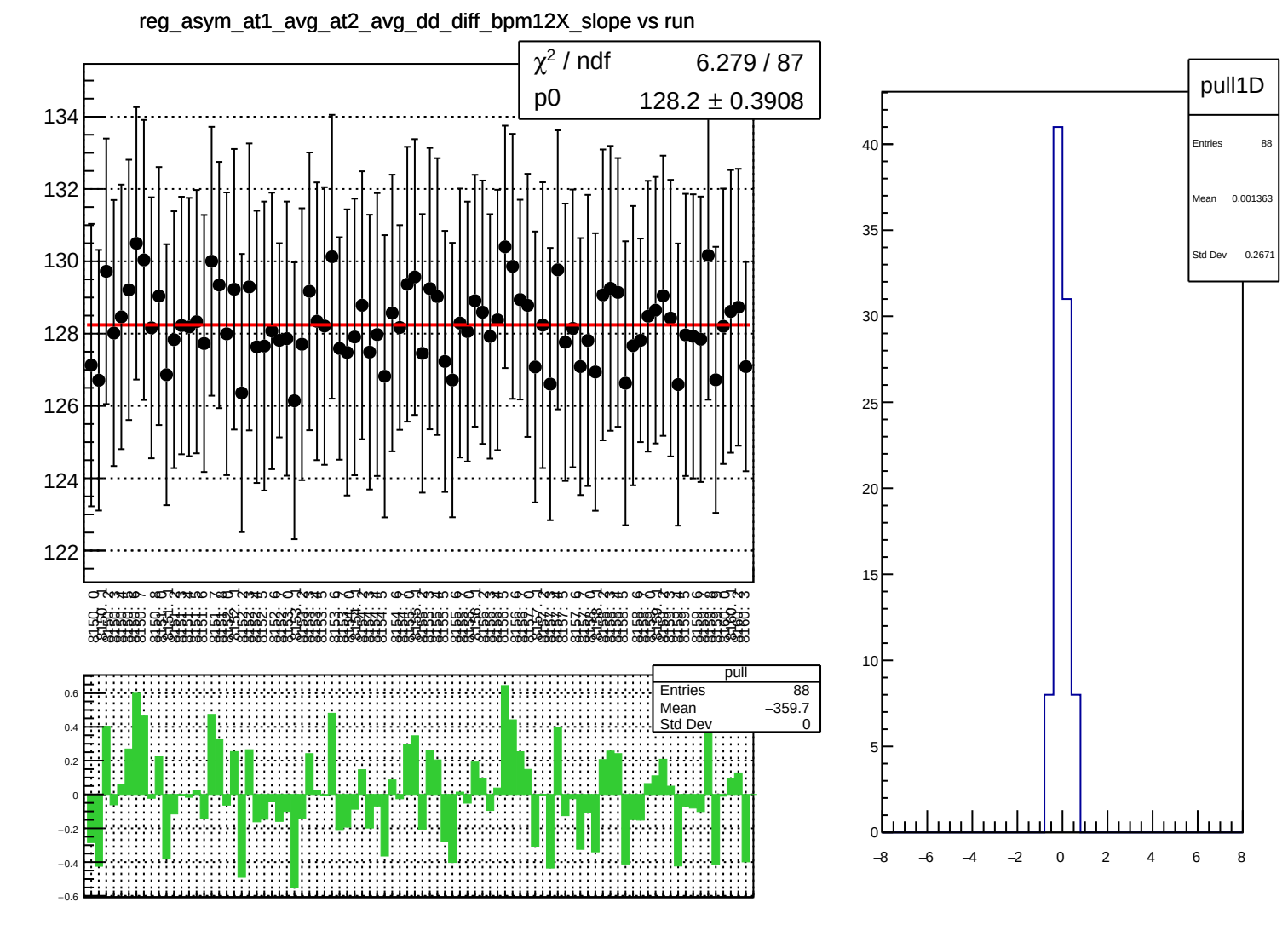

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 36.61 / 87
p0 30.58 ± 0.1517
pull
Entries 88
Mean 360.4
Std Dev 0
pull1D
Entries 88
Mean −0.002412
Std Dev 0.645

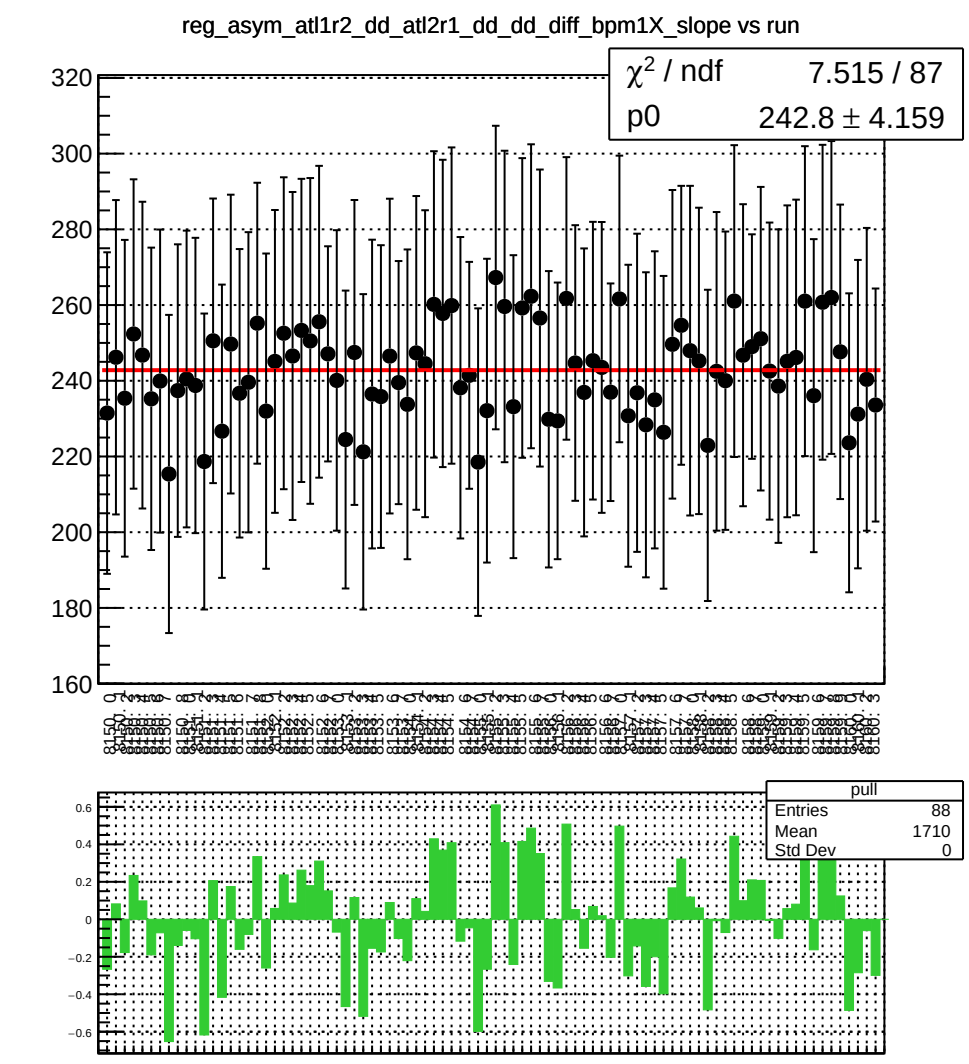

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 7.515 / 87
p0 242.8 ± 4.159
pull
Entries 88
Mean 1710
Std Dev 0
pull1D
Entries 88
Mean 0.0005152
Std Dev 0.2922

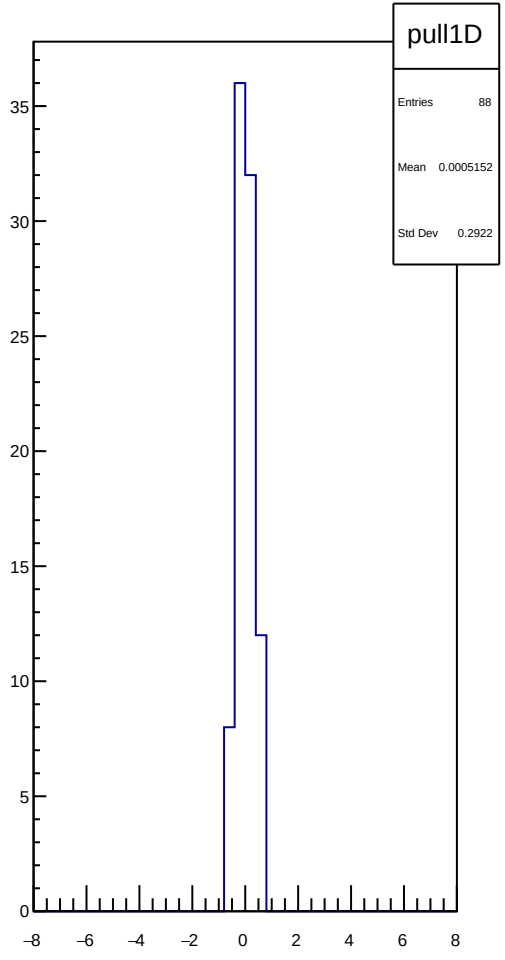

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.273 / 87
p0 −96.85 ± 7.789
0
−50
−100
−150
−200
pull
Entries 88
Mean −223.4
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.001514
Std Dev 0.2448
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

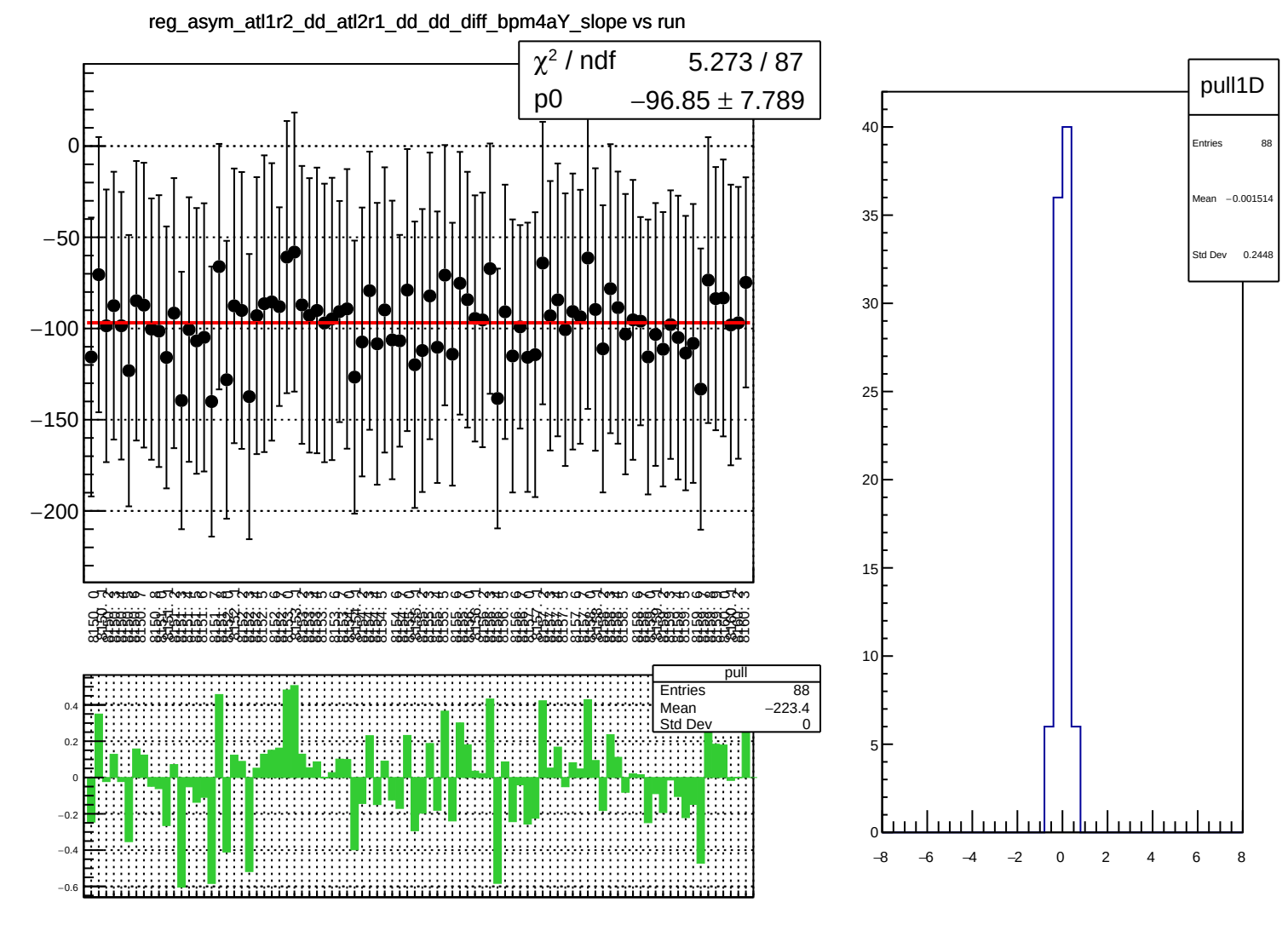

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.079 / 87
p0 −230.5 ± 4.215
−160
−180
−200
−220
−240
−260
−280
−300
pull
Entries 88
Mean −1356
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.0007558
Std Dev 0.2836
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

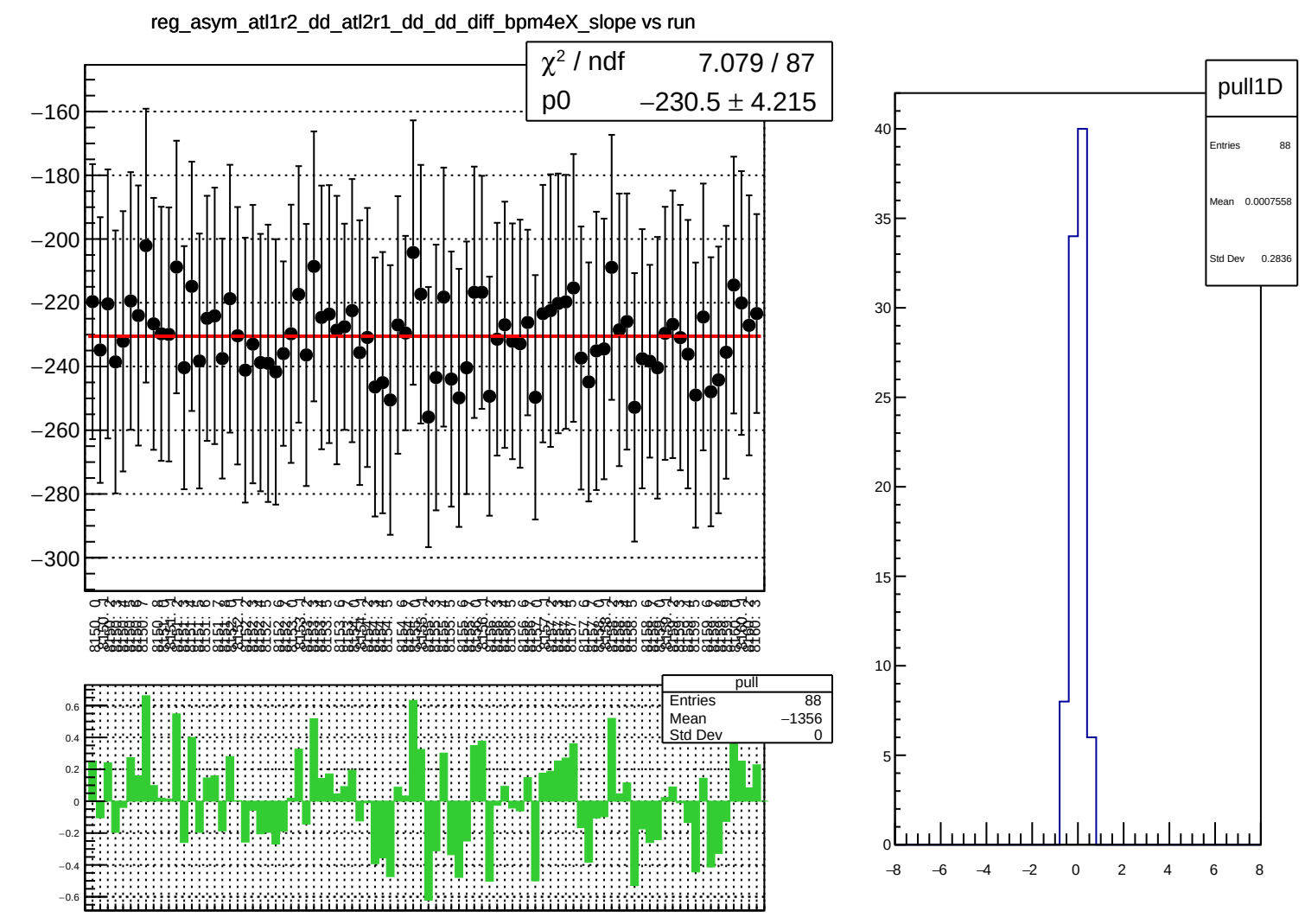

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.583 / 87
p0 39.12 ± 8.346
150
100
50
0
−50
−100
pull
Entries 88
Mean −99.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean 0.001777
Std Dev 0.2519
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

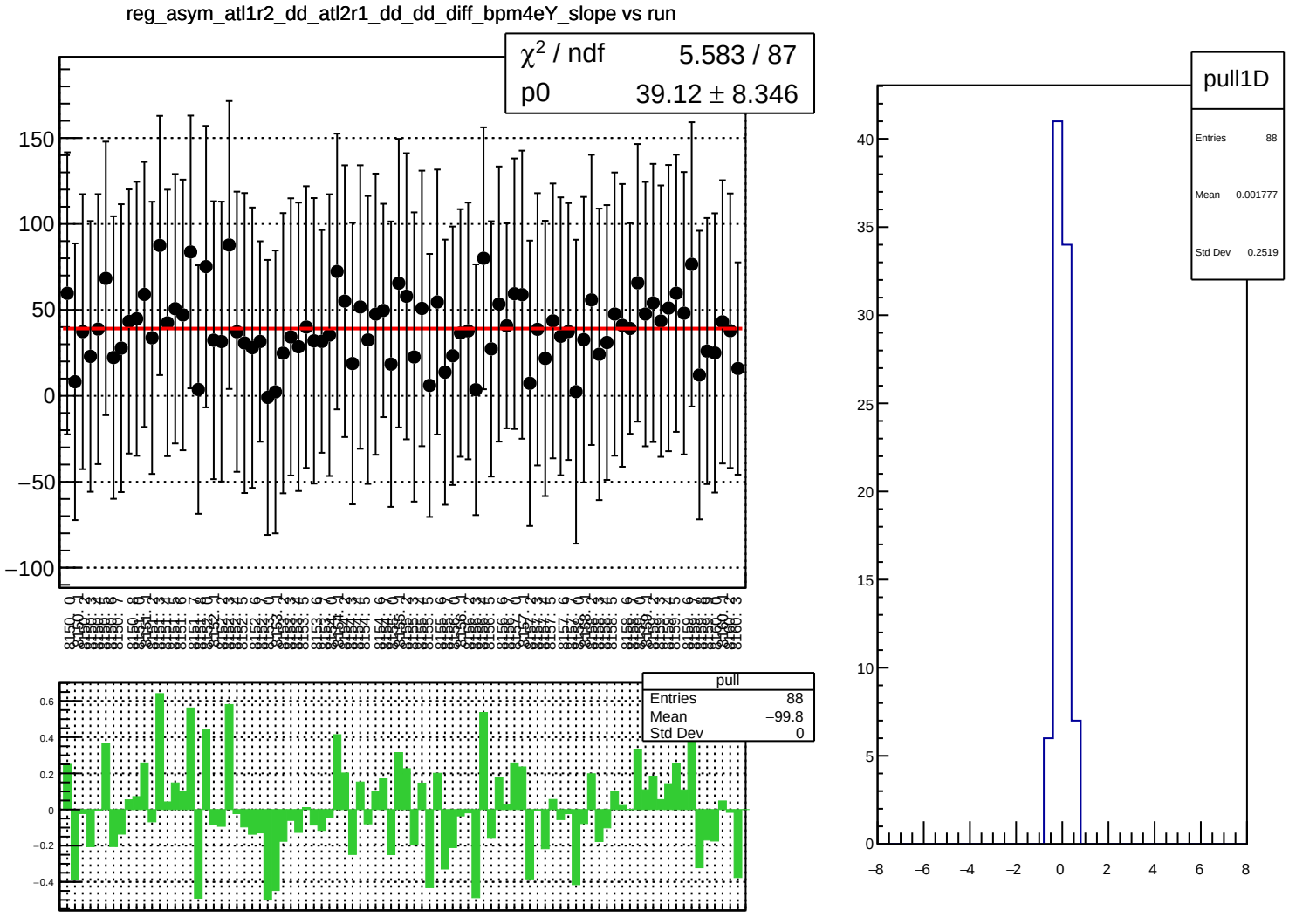

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 6.279 / 87
p0 128.2 ± 0.3908
134
132
130
128
126
124
122
pull
Entries 88
Mean −359.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.001363
Std Dev 0.2671
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 7.515 / 87
p0 242.8 ± 4.159
pull
Entries 88
Mean 1710
Std Dev 0


pull1D
Entries 88
Mean 0.0005152
Std Dev 0.2922


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.273 / 87
p0 −96.85 ± 7.789
pull
Entries 88
Mean −223.4
Std Dev 0
pull1D
Entries 88
Mean −0.001514
Std Dev 0.2448


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.079 / 87
p0 −230.5 ± 4.215
−160
−180
−200
−220
−240
−260
−280
−300
pull
Entries 88
Mean −1356
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.0007558
Std Dev 0.2836
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.583 / 87
p0 39.12 ± 8.346
150
100
50
0
−50
−100
pull
Entries 88
Mean −99.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean 0.001777
Std Dev 0.2519
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
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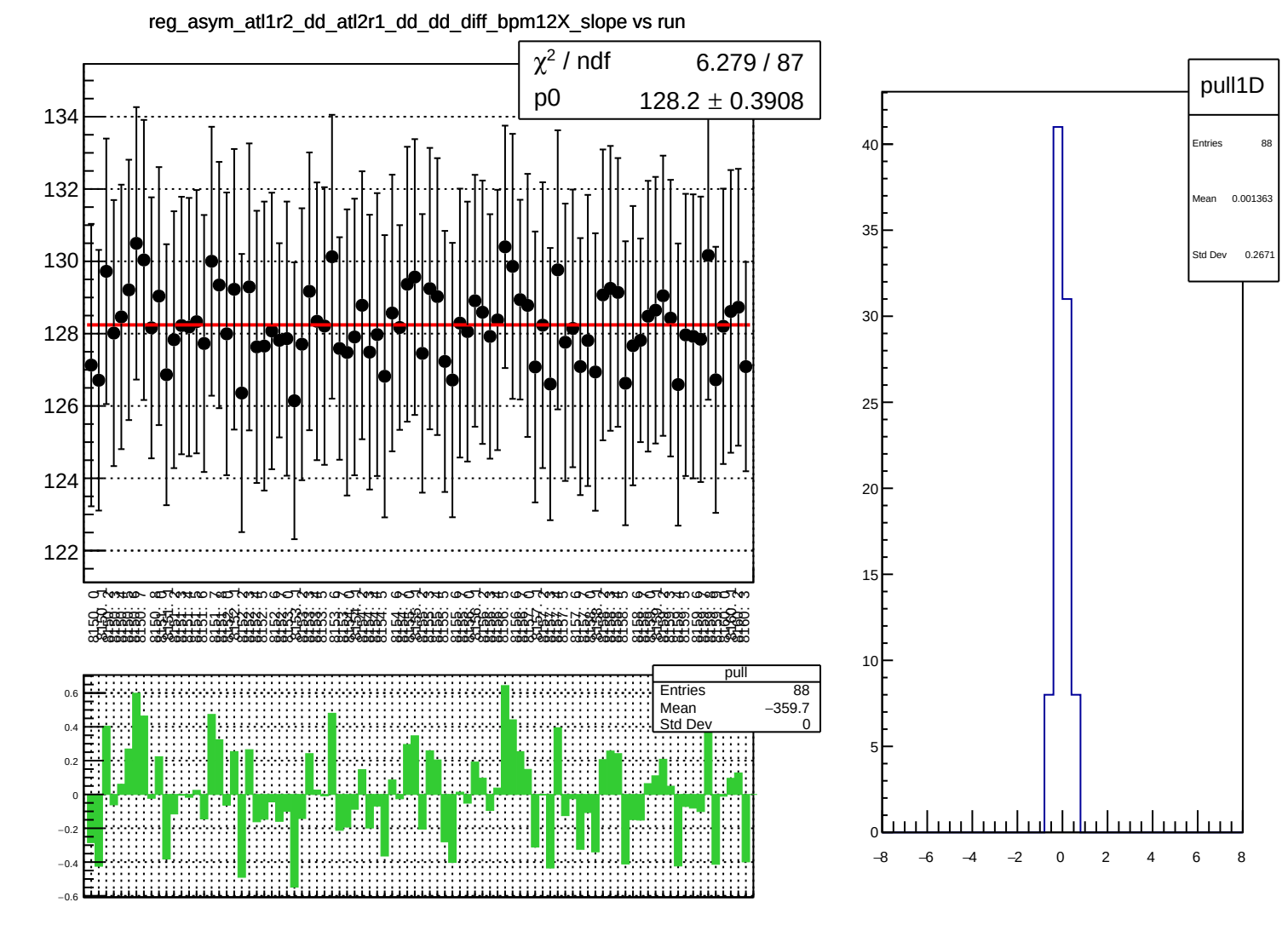
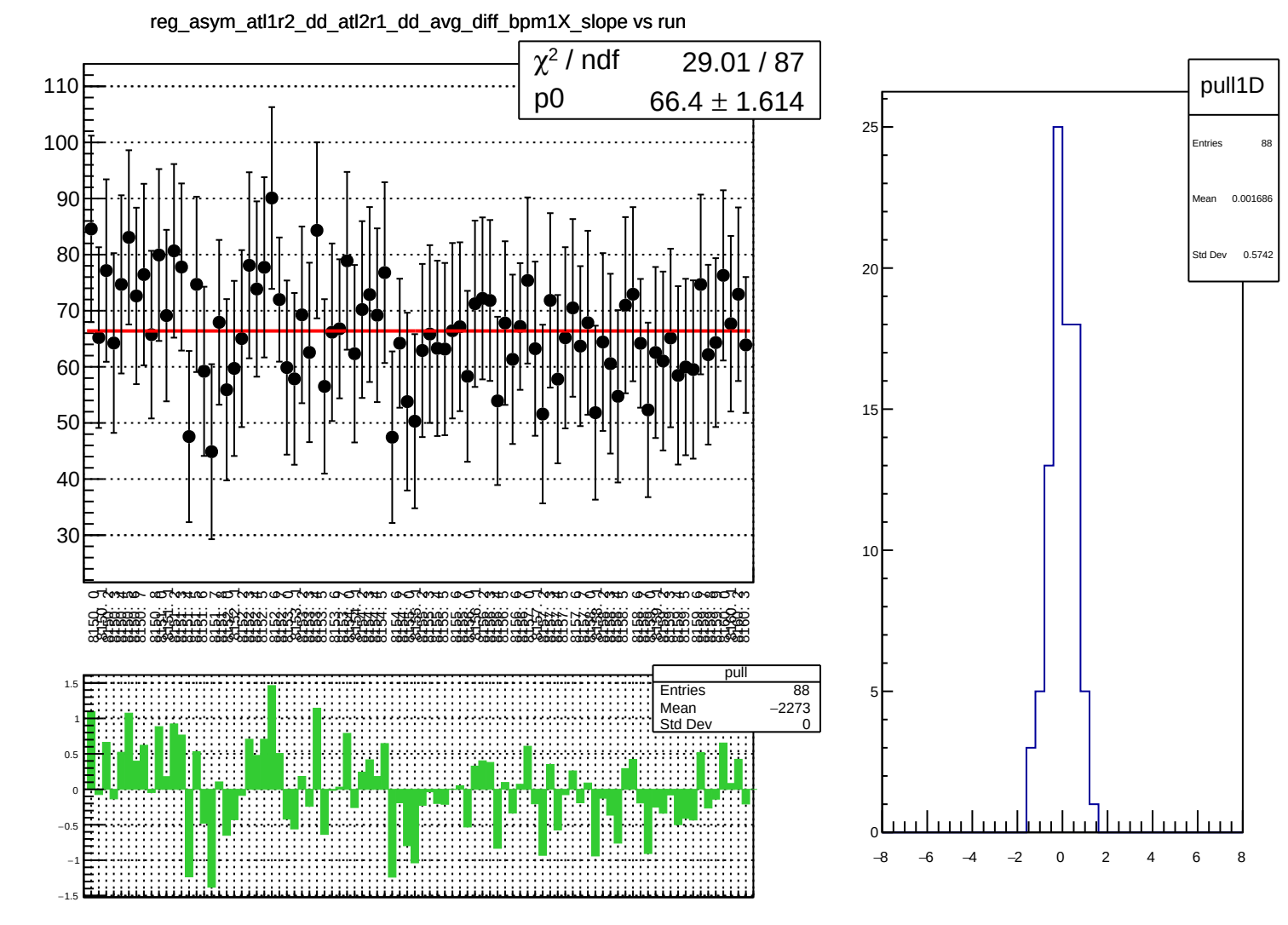
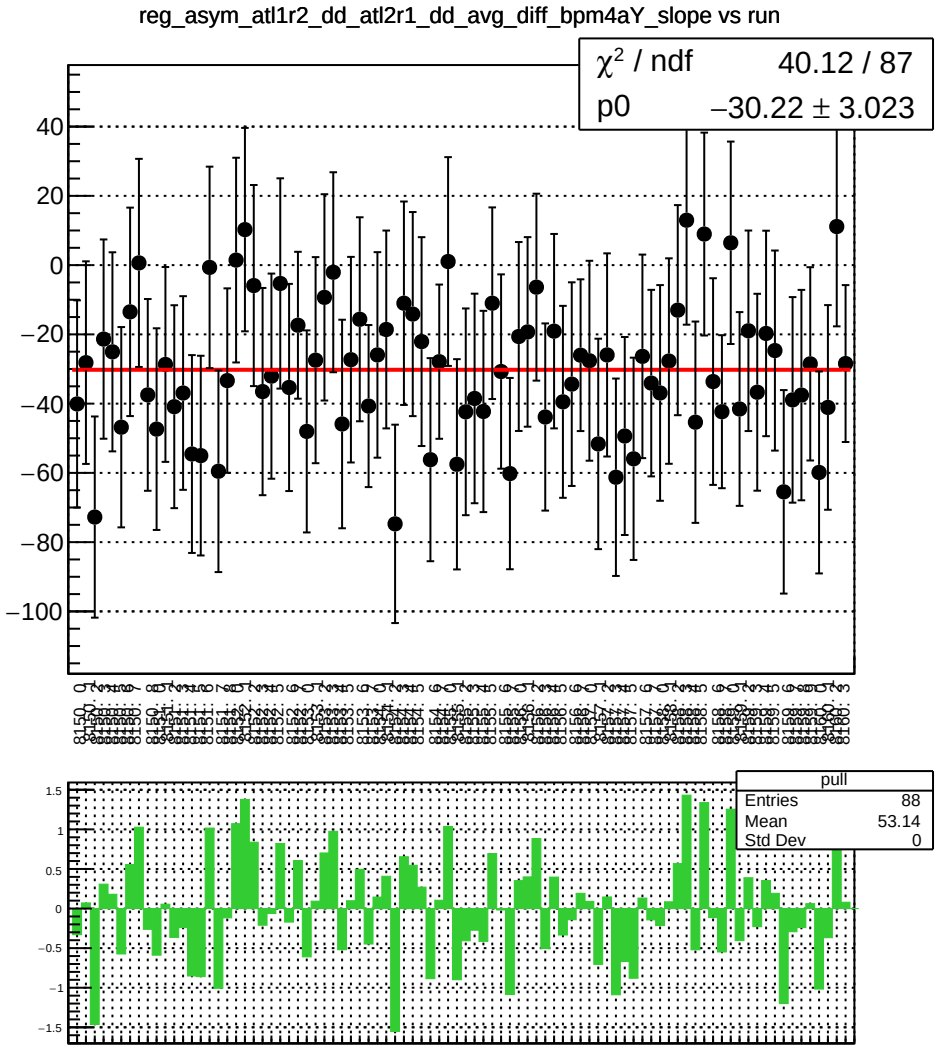
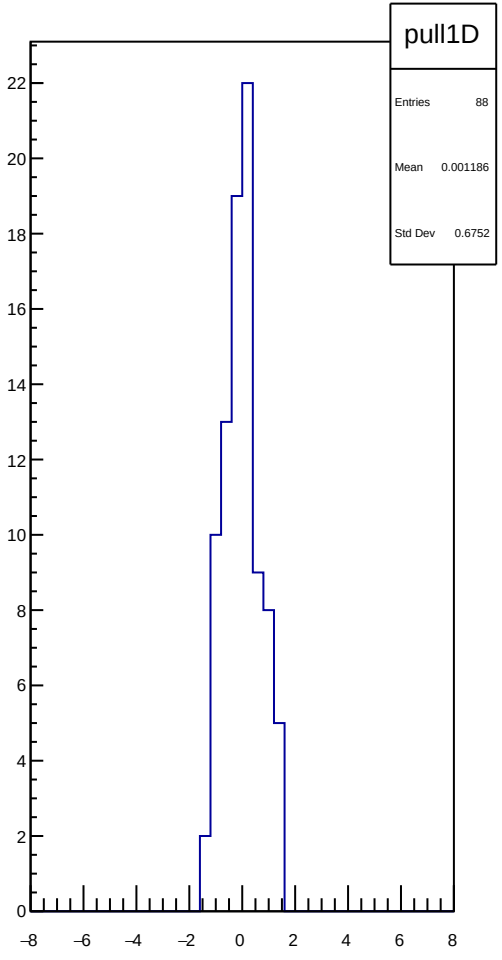
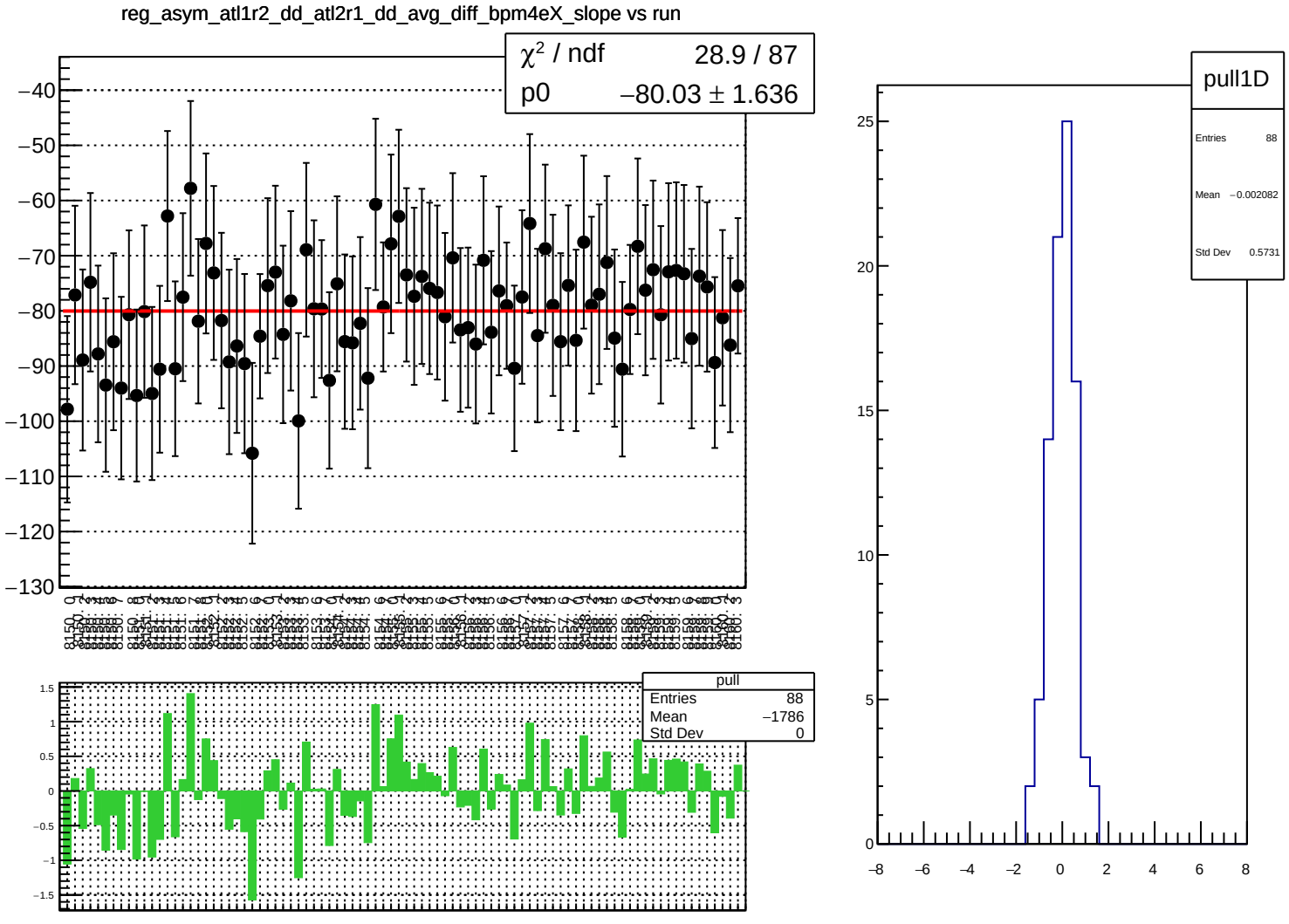
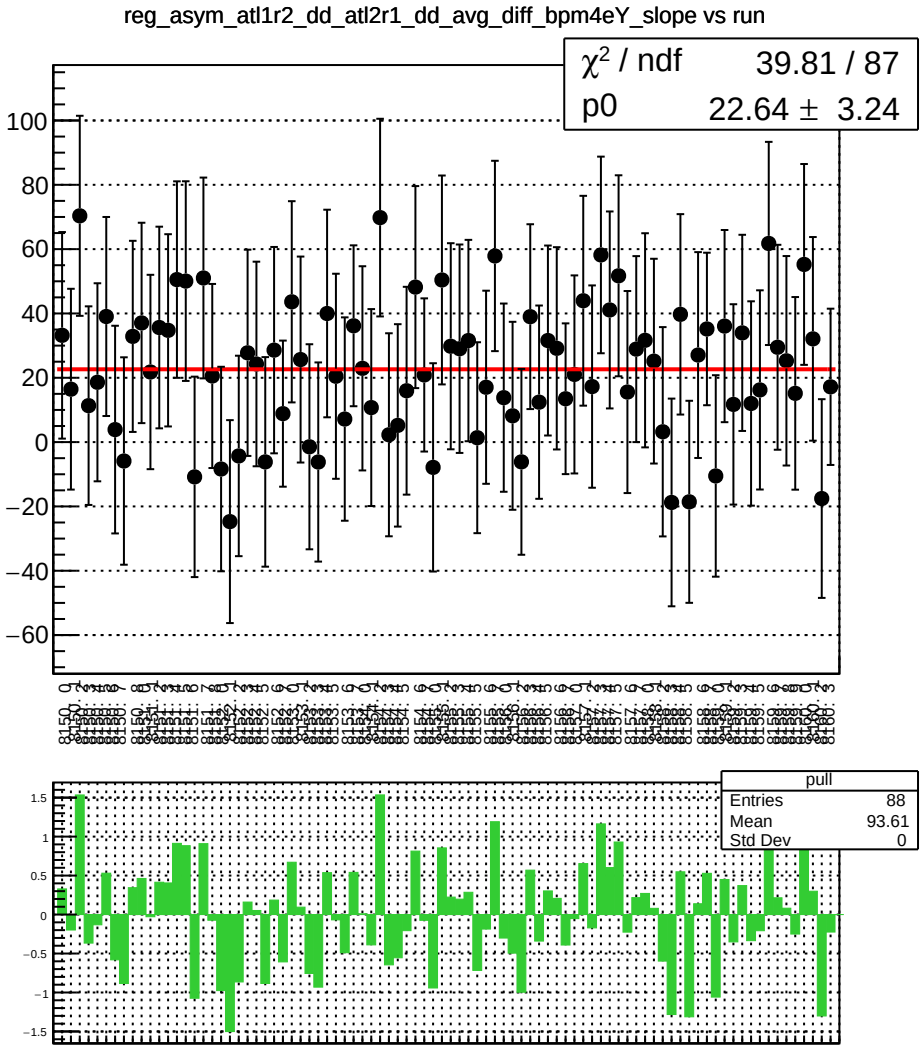

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 6.279 / 87
p0 128.2 ± 0.3908
134
132
130
128
126
124
122
pull
Entries 88
Mean −359.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.001363
Std Dev 0.2671
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

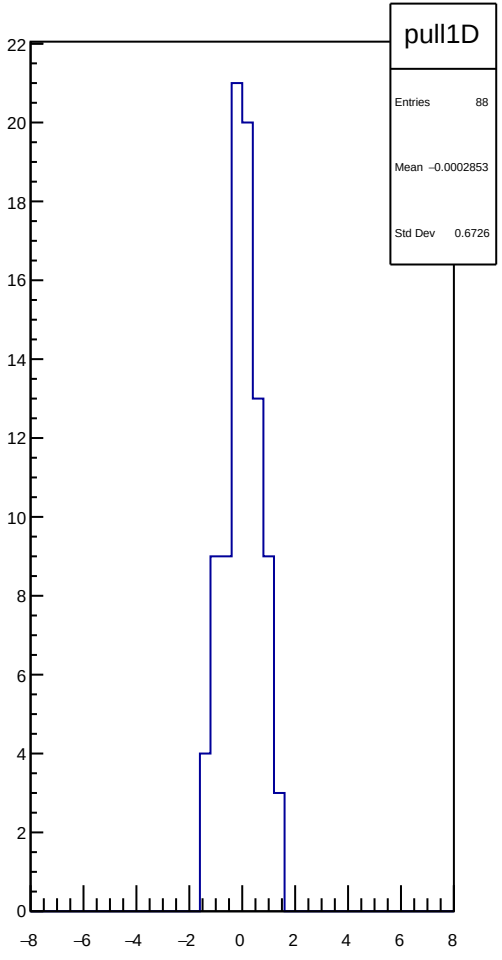

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 29.01 / 87
p0 66.4 ± 1.614
pull
Entries 88
Mean −2273
Std Dev 0
pull1D
Entries 88
Mean 0.001686
Std Dev 0.5742

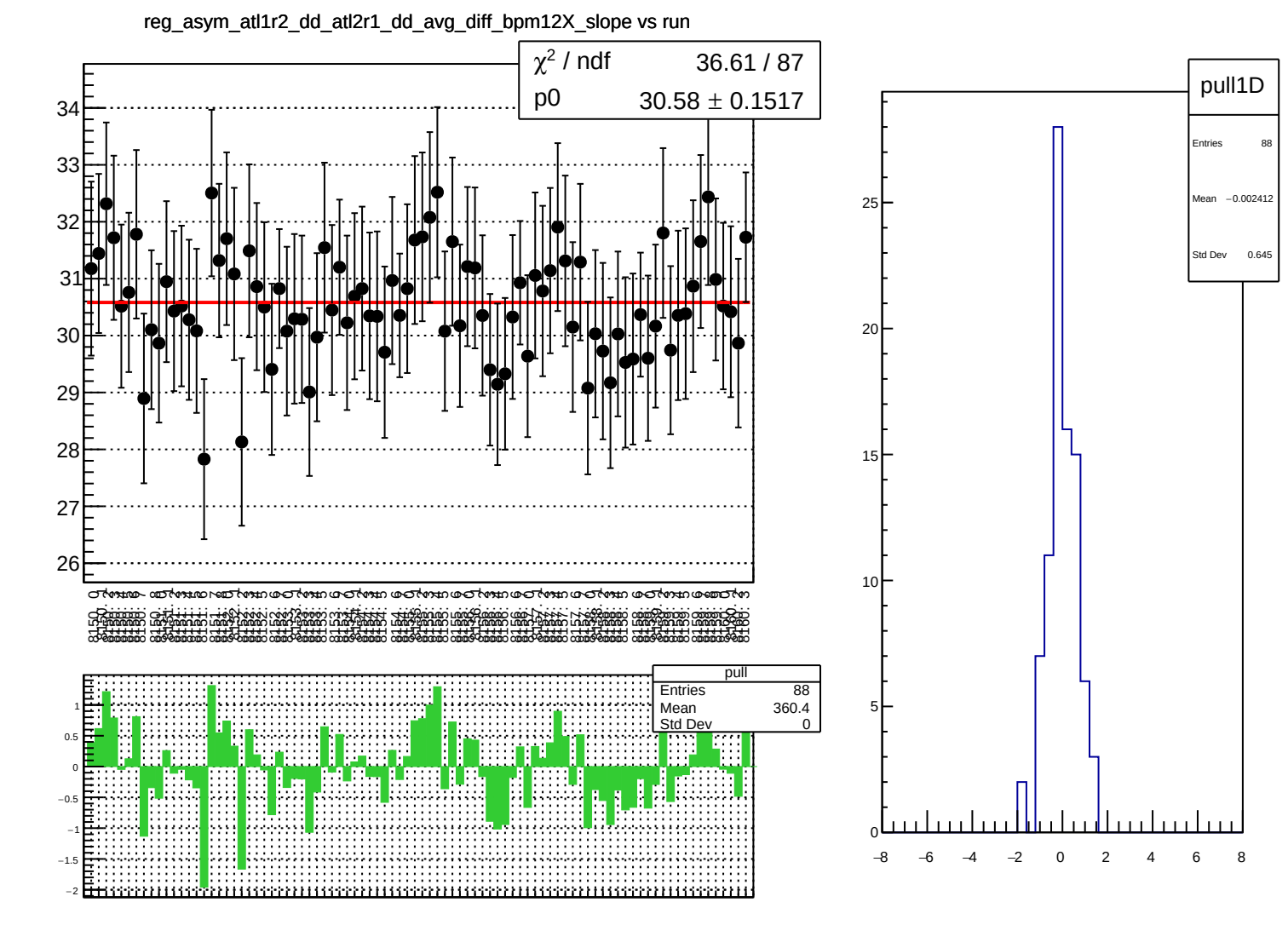

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.12 / 87
p0 −30.22 ± 3.023
pull
Entries 88
Mean 53.14
Std Dev 0

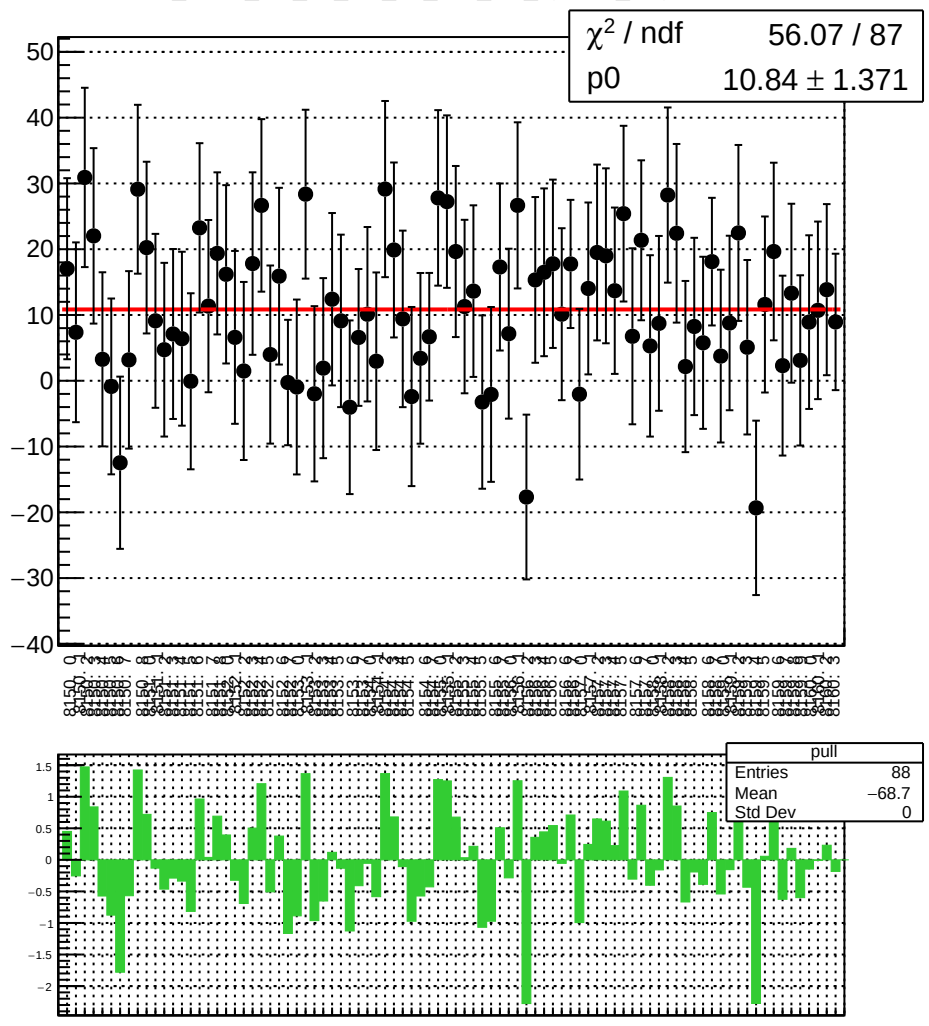

pull1D
Entries 88
Mean 0.001186
Std Dev 0.6752

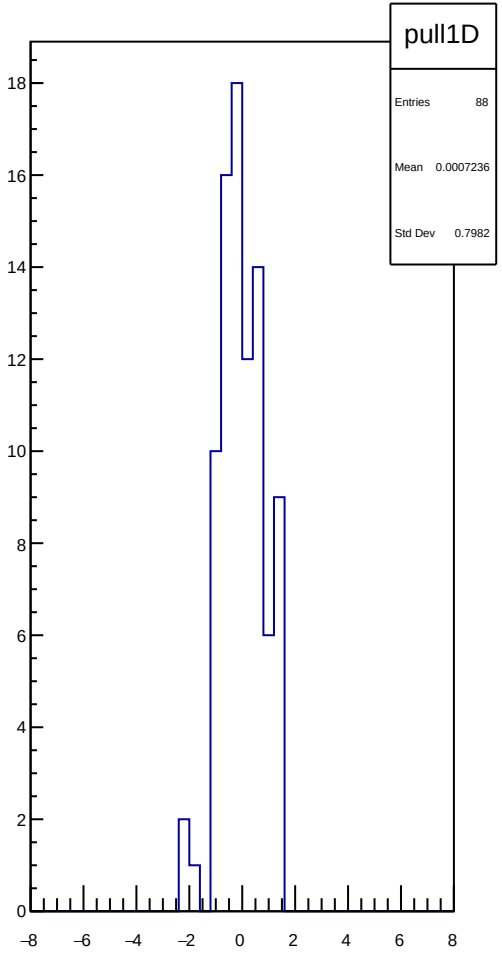

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.9 / 87
p0 −80.03 ± 1.636
pull
Entries 88
Mean −1786
Std Dev 0
pull1D
Entries 88
Mean −0.002082
Std Dev 0.5731

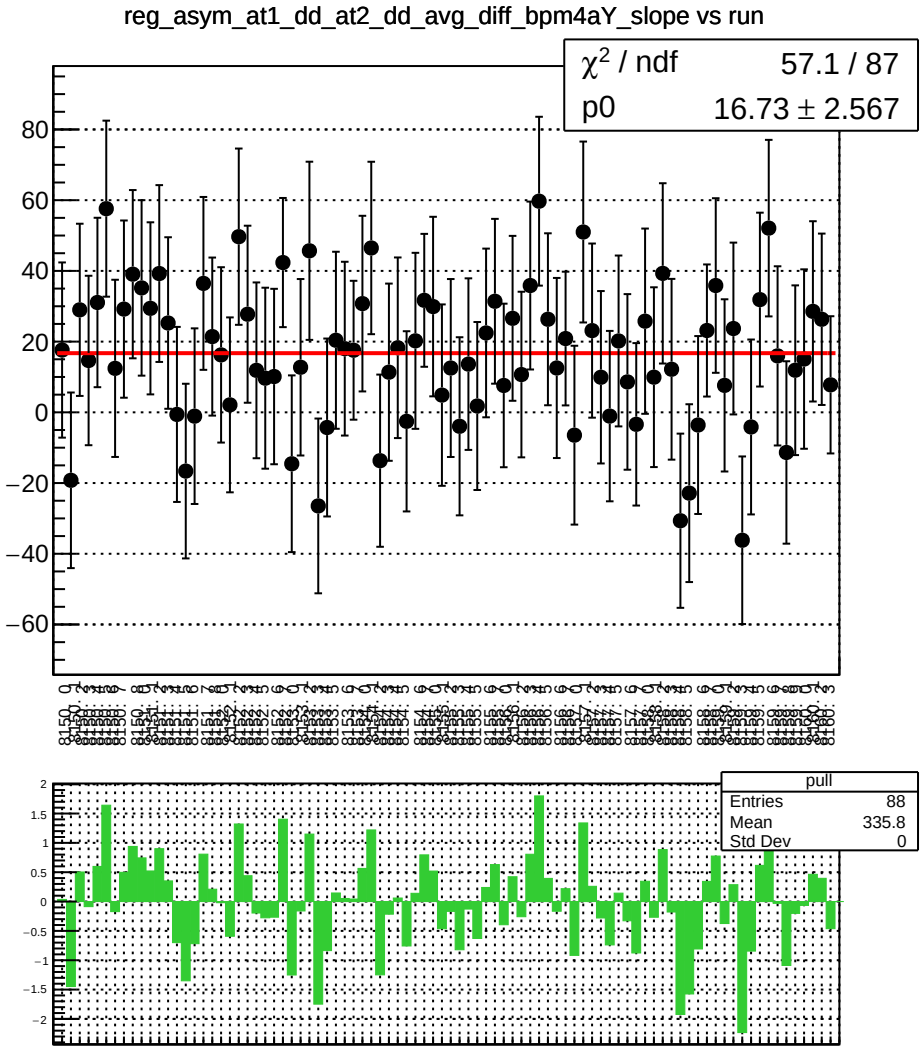

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.81 / 87
p0 22.64 ± 3.24
pull
Entries 88
Mean 93.61
Std Dev 0

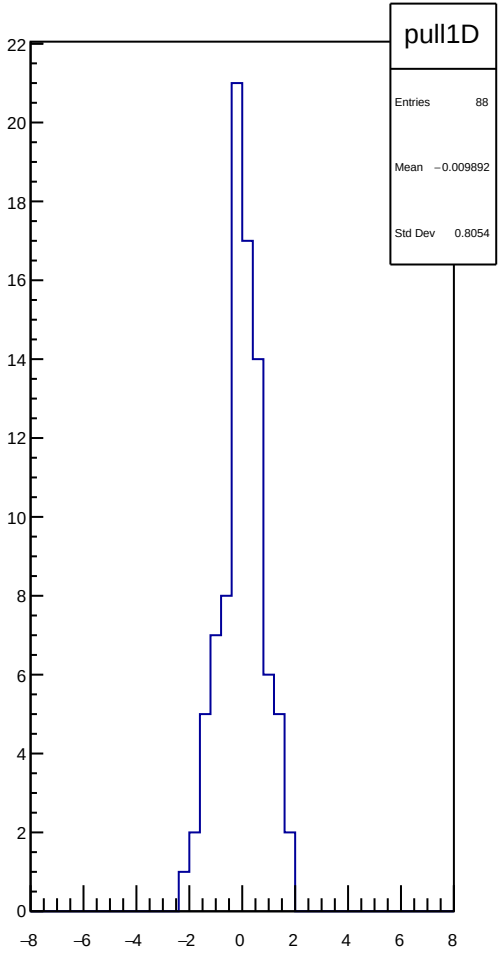

pull1D
Entries 88
Mean −0.0002853
Std Dev 0.6726

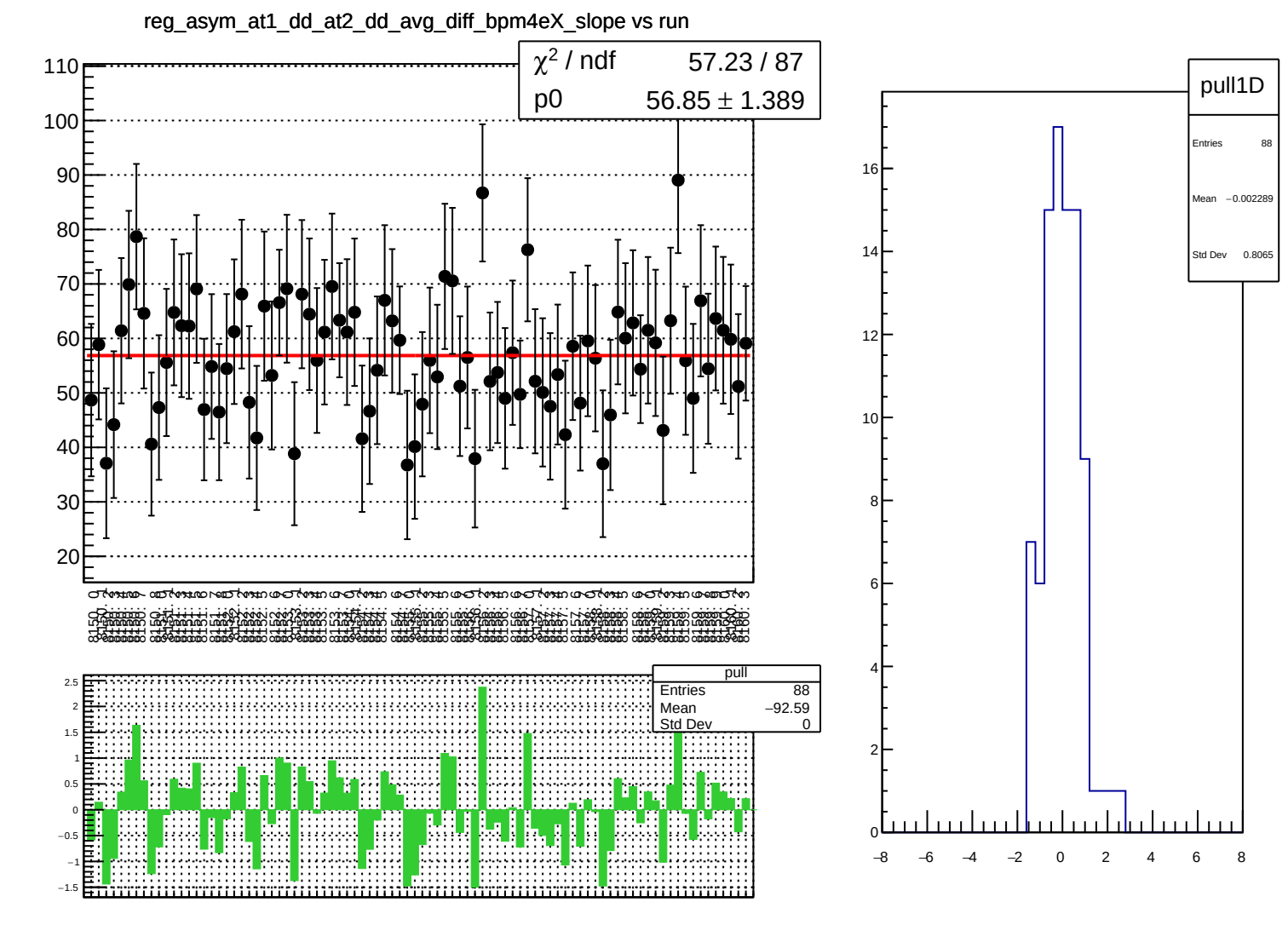

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 36.61 / 87
p0 30.58 ± 0.1517
pull
Entries 88
Mean 360.4
Std Dev 0
pull1D
Entries 88
Mean −0.002412
Std Dev 0.645

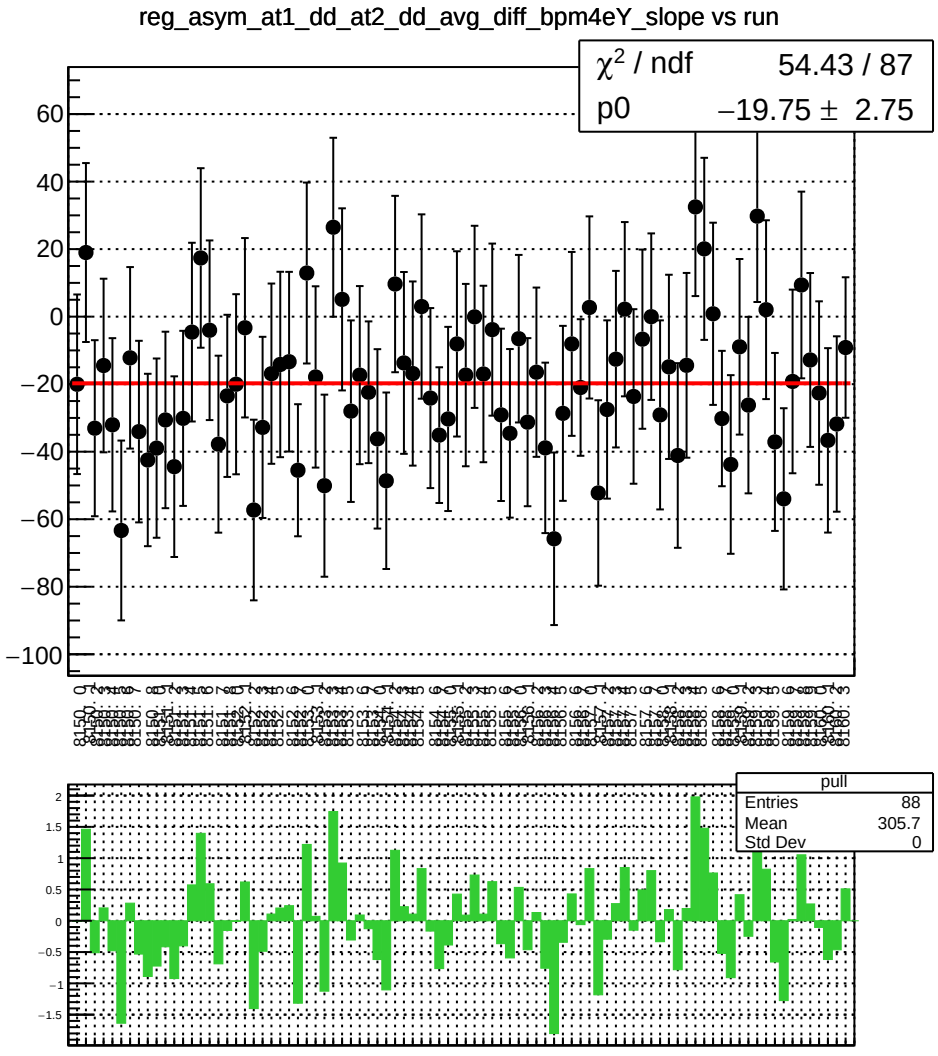

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 56.07 / 87
p0 10.84 ± 1.371
pull
Entries 88
Mean −68.7
Std Dev 0

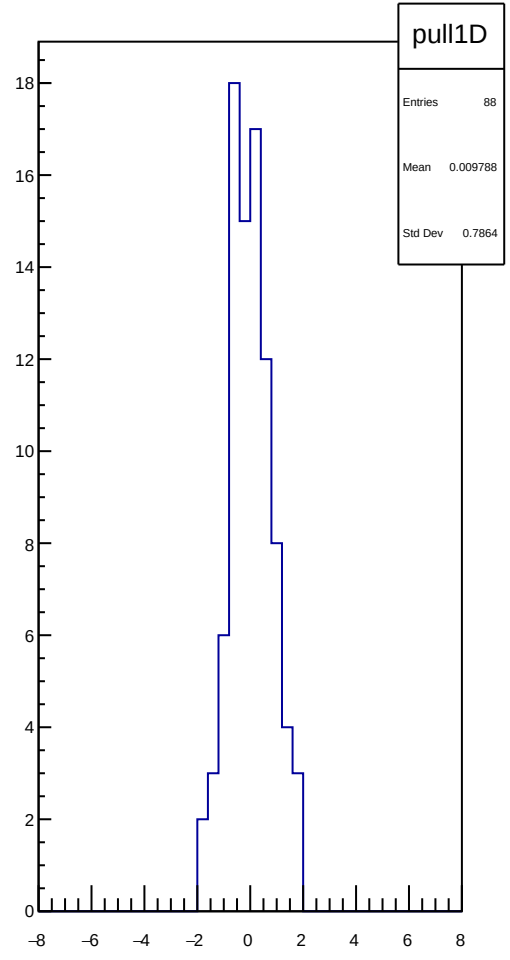

pull1D
Entries 88
Mean 0.0007236
Std Dev 0.7982

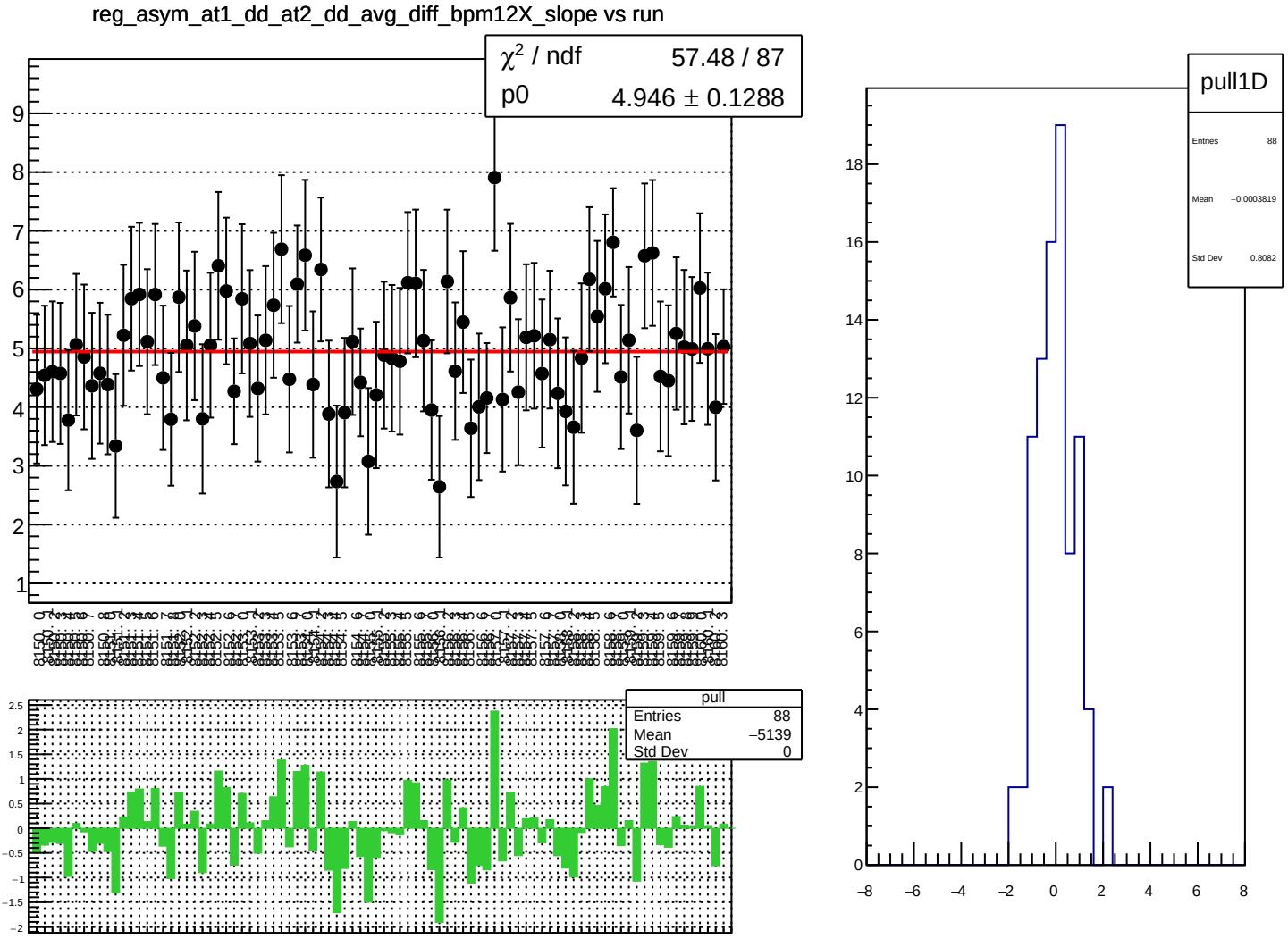

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 57.1 / 87
p0 16.73 ± 2.567
pull
Entries 88
Mean 335.8
Std Dev 0

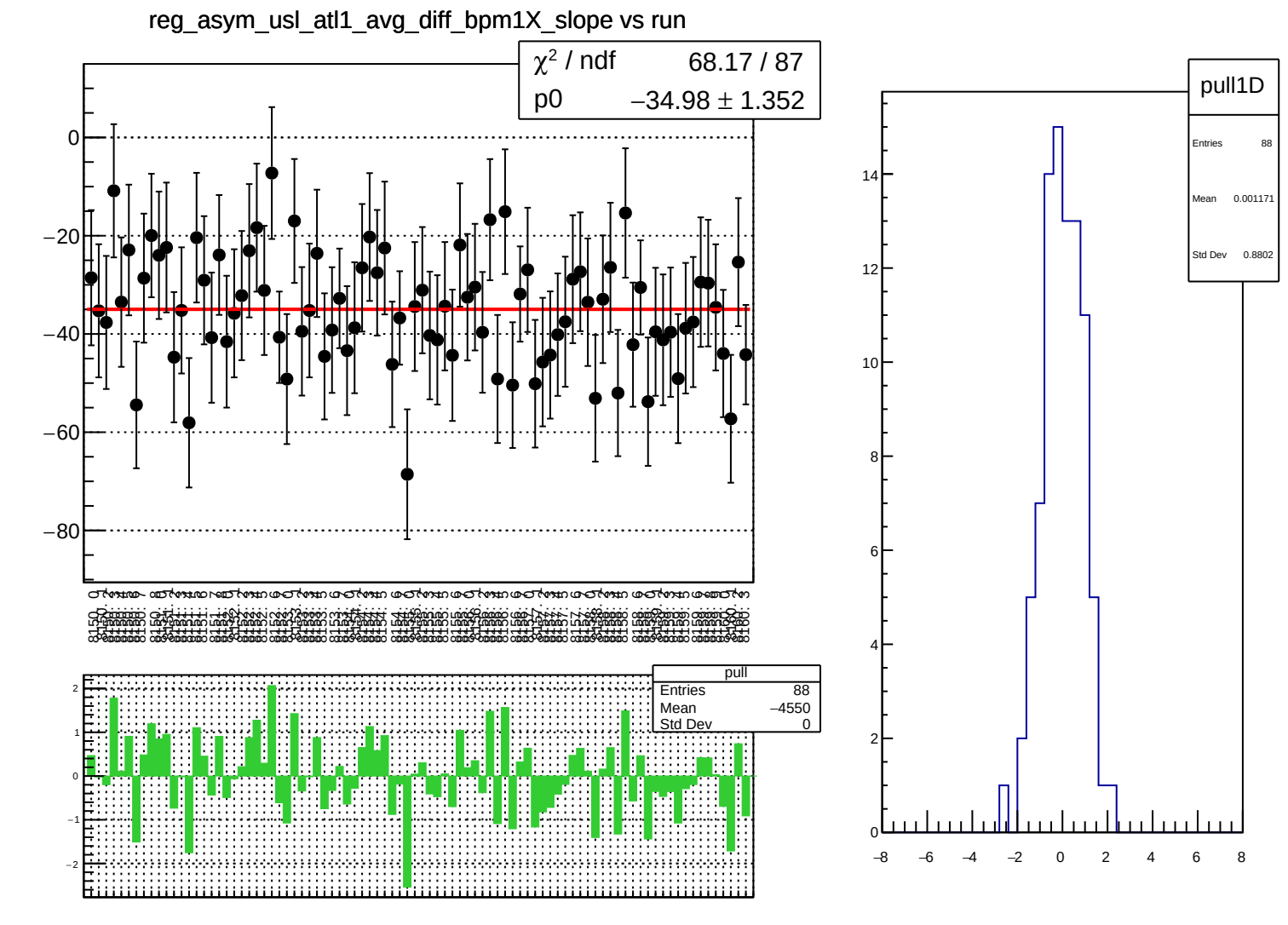

pull1D
Entries 88
Mean −0.009892
Std Dev 0.8054

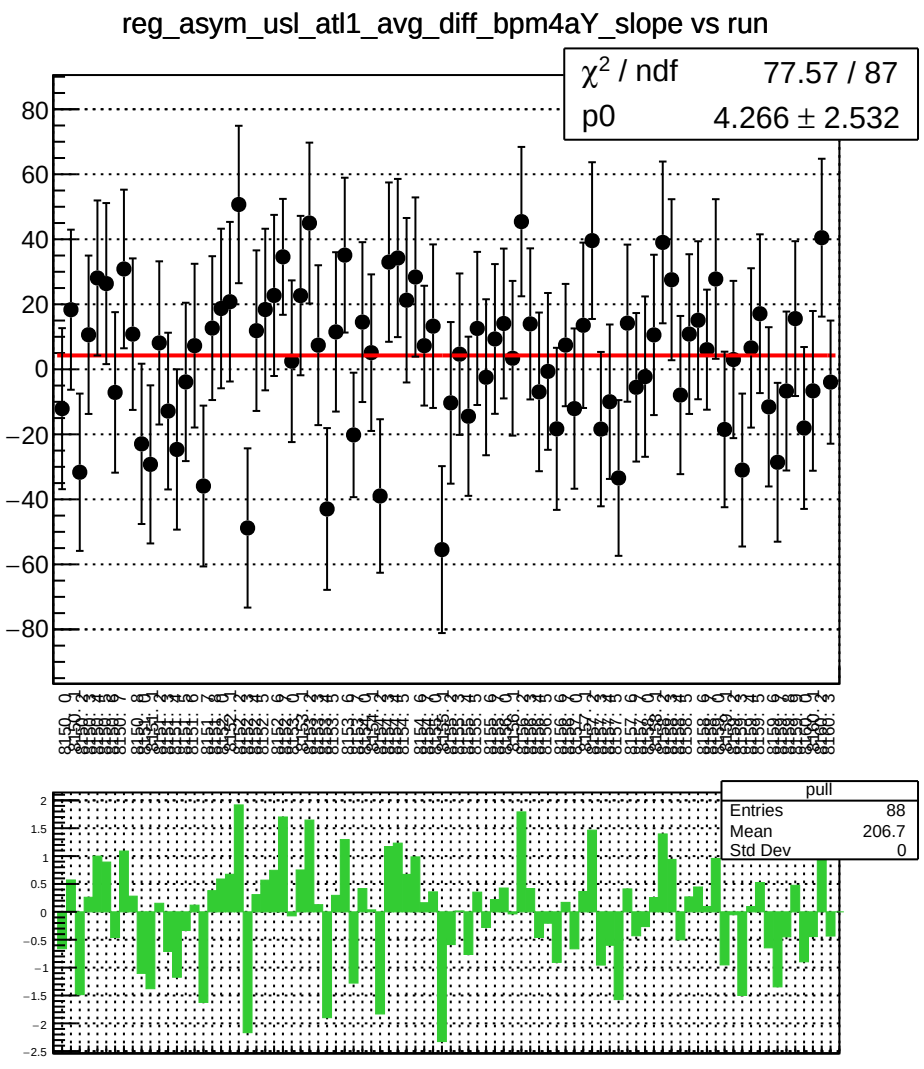

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 57.23 / 87
p0 56.85 ± 1.389
pull
Entries 88
Mean −92.59
Std Dev 0
pull1D
Entries 88
Mean −0.002289
Std Dev 0.8065

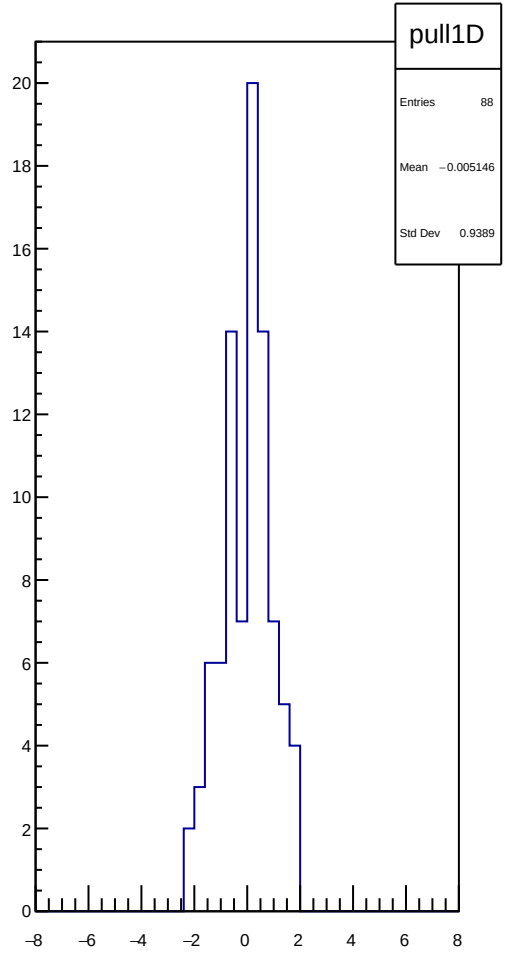

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 54.43 / 87
p0 −19.75 ± 2.75
pull
Entries 88
Mean 305.7
Std Dev 0

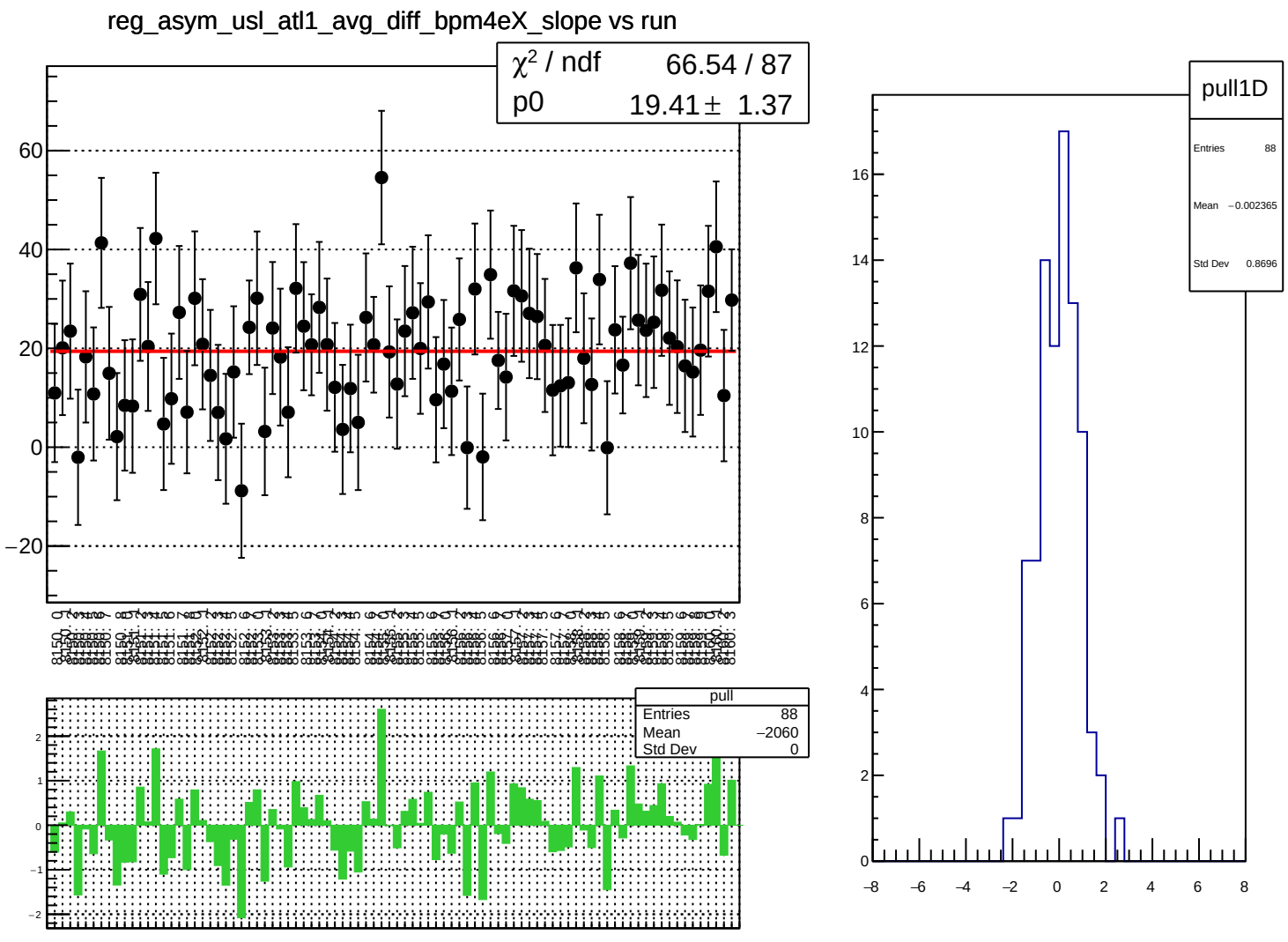

pull1D
Entries 88
Mean 0.009788
Std Dev 0.7864

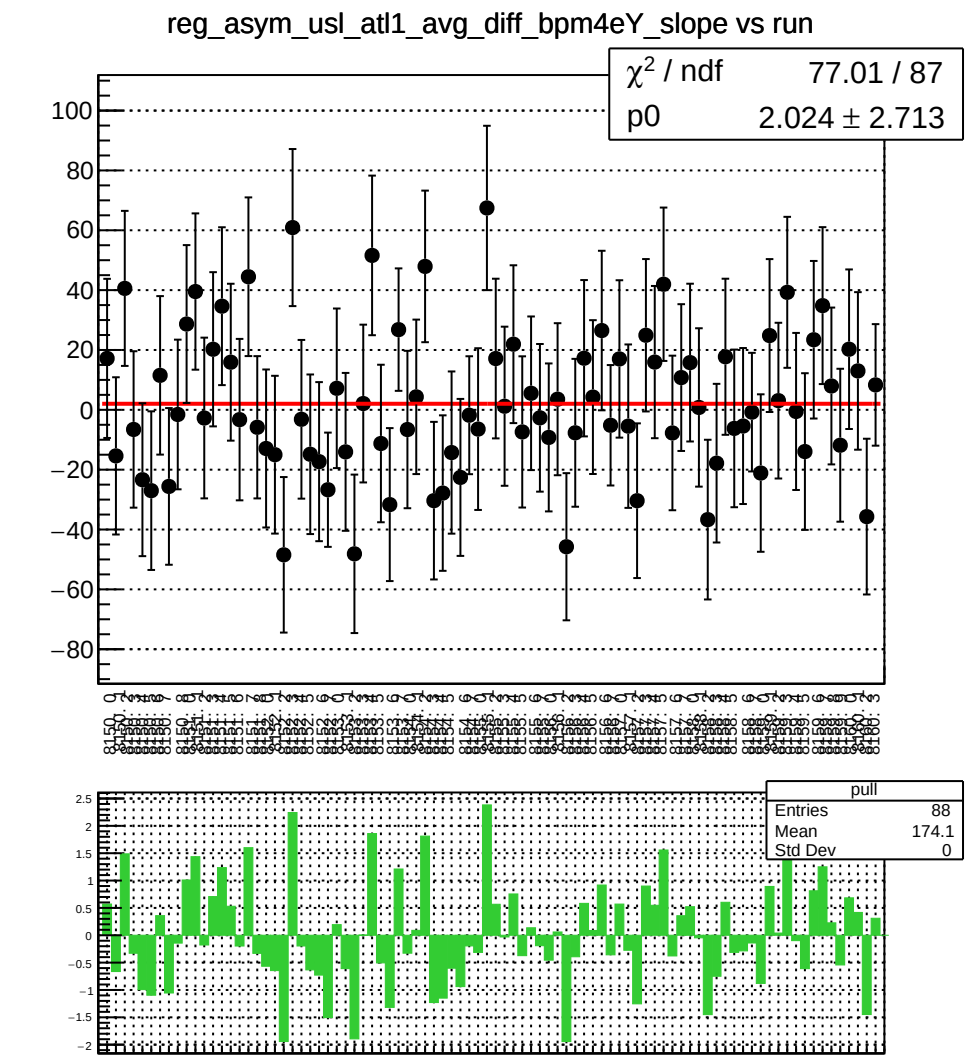

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 57.48 / 87
p0 4.946 ± 0.1288
pull
Entries 88
Mean −5139
Std Dev 0
pull1D
Entries 88
Mean −0.0003819
Std Dev 0.8082

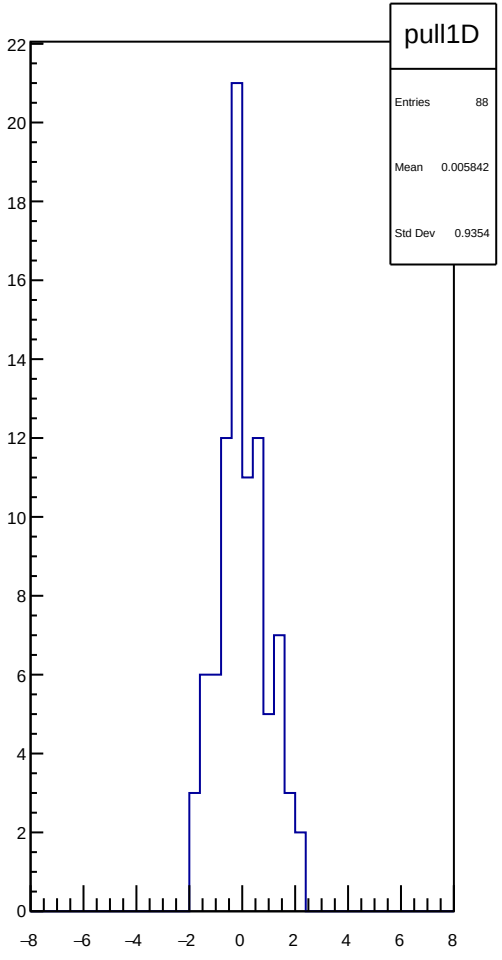

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 68.17 / 87
p0 −34.98 ± 1.352
pull
Entries 88
Mean −4550
Std Dev 0
pull1D
Entries 88
Mean 0.001171
Std Dev 0.8802

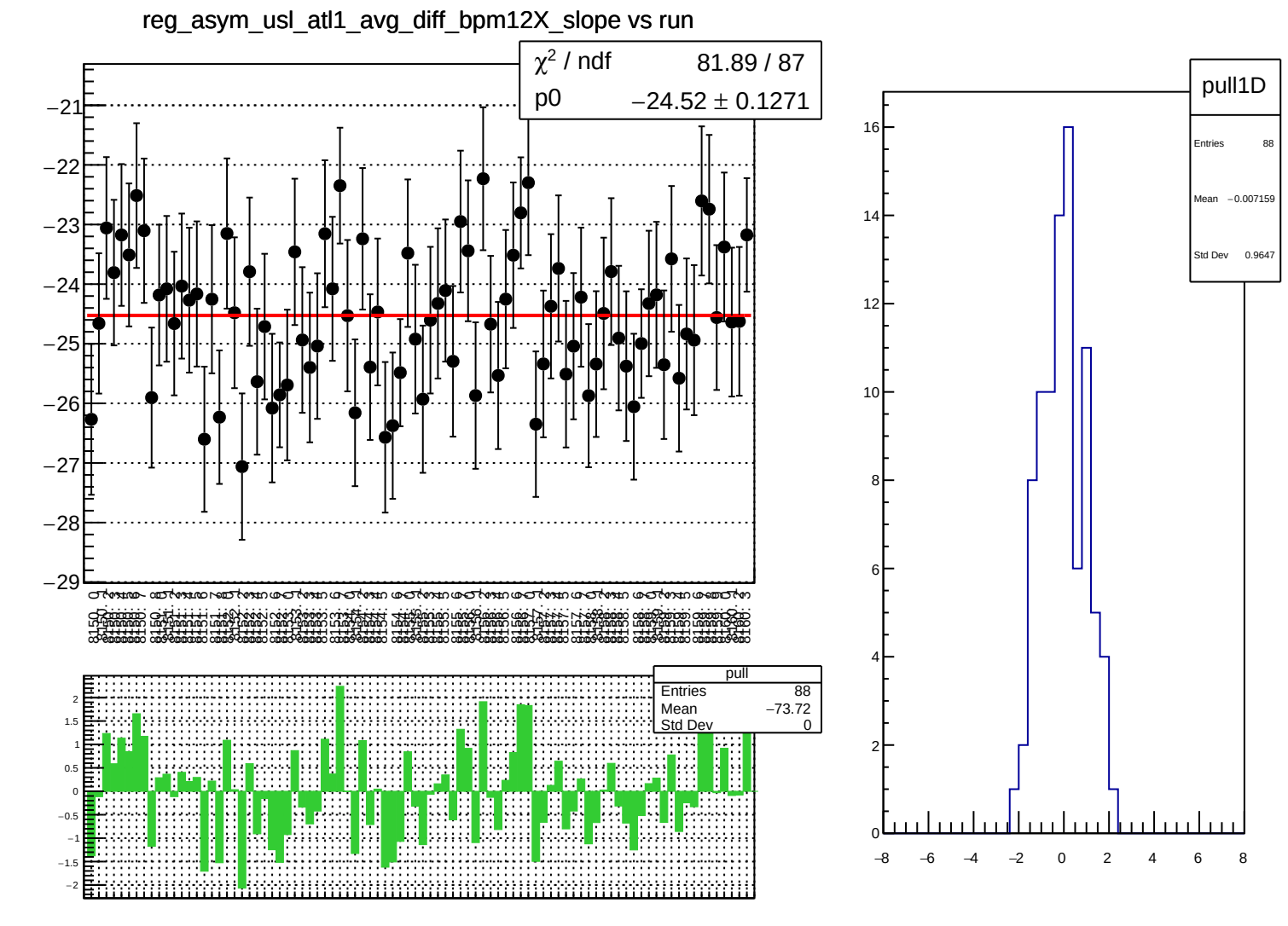

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 77.57 / 87
p0 4.266 ± 2.532
pull
Entries 88
Mean 206.7
Std Dev 0

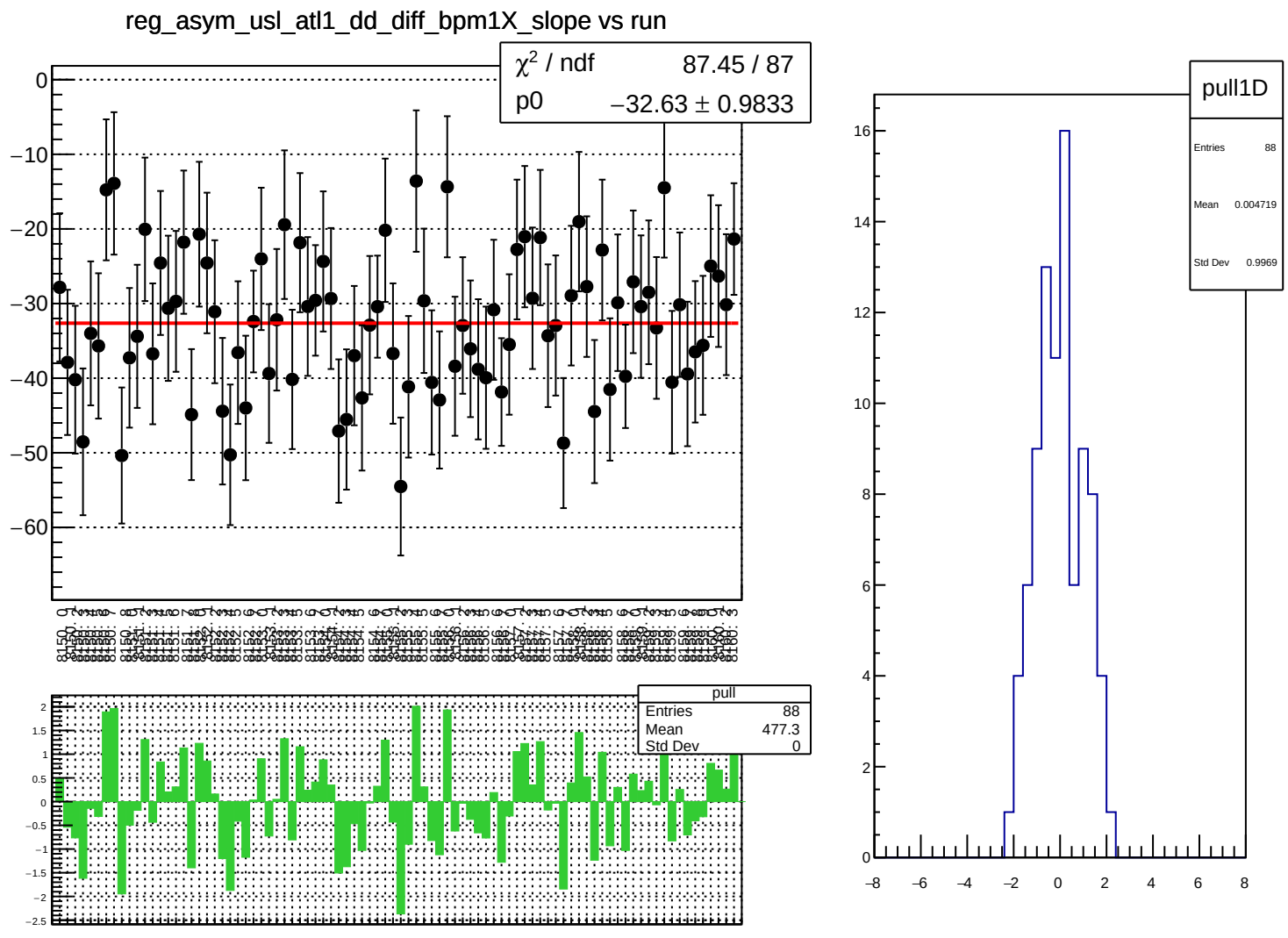

pull1D
Entries 88
Mean −0.005146
Std Dev 0.9389

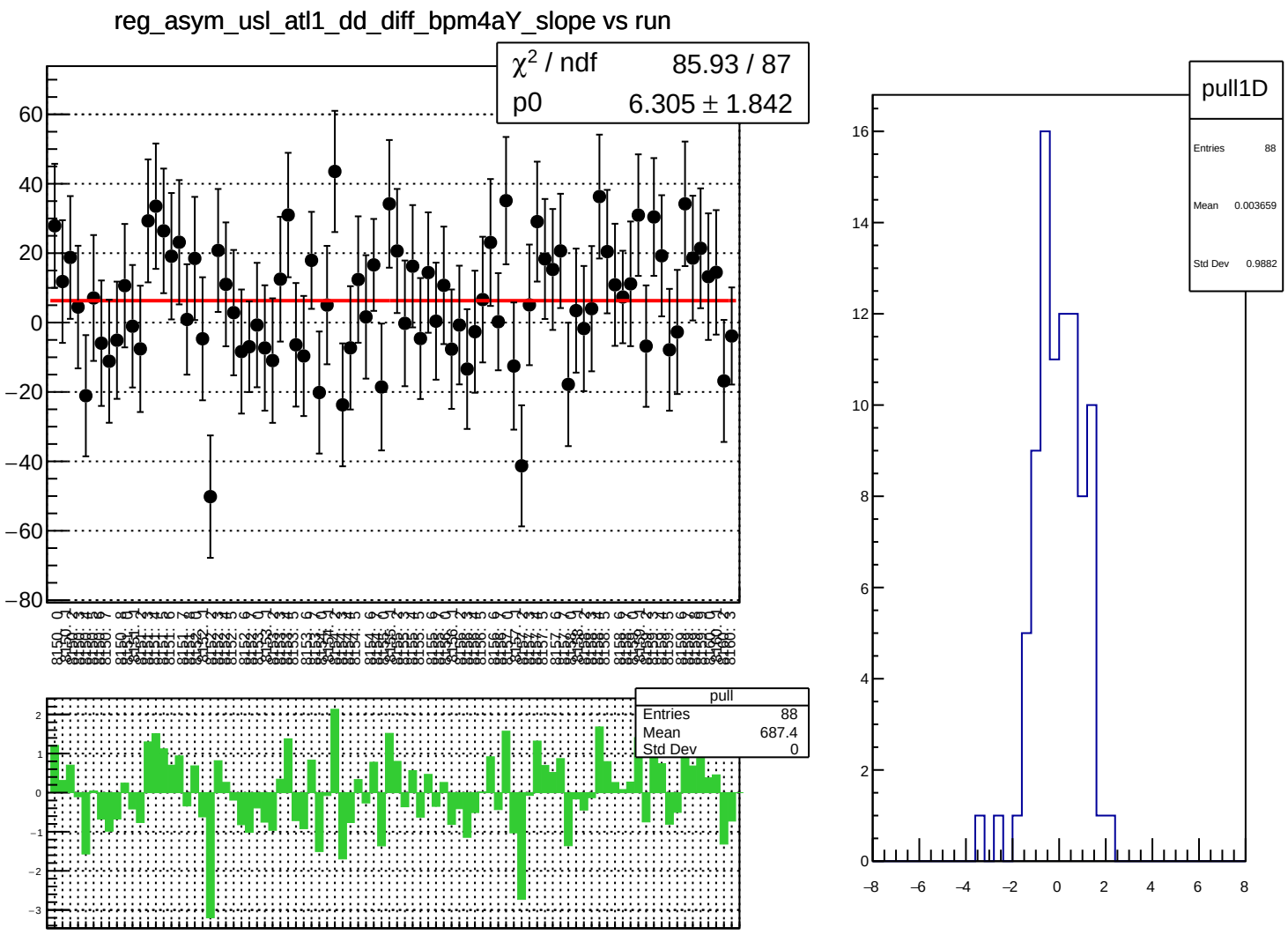

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.54 / 87
p0 19.41 ± 1.37
pull
Entries 88
Mean −2060
Std Dev 0
pull1D
Entries 88
Mean −0.002365
Std Dev 0.8696

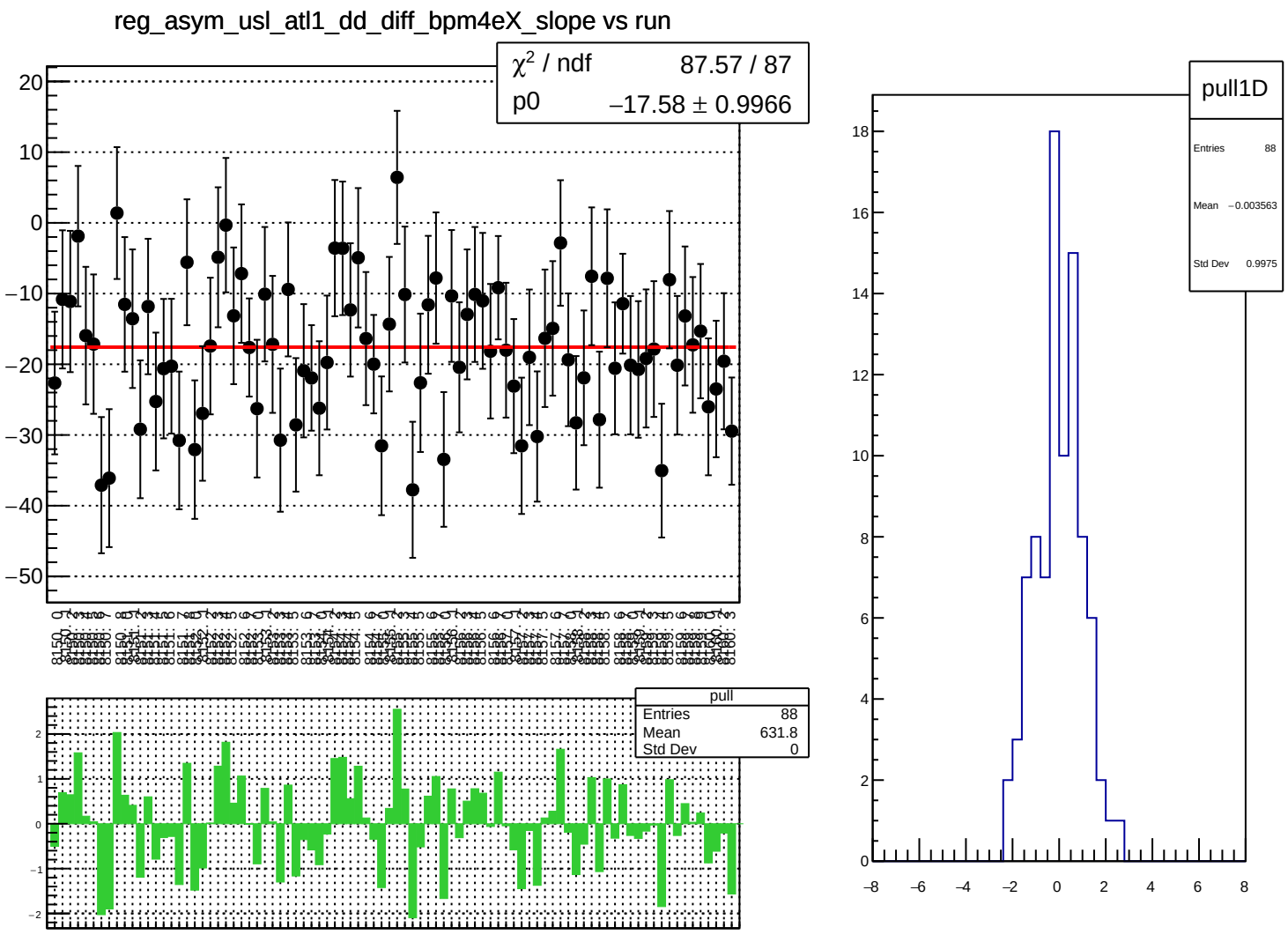

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.01 / 87
p0 2.024 ± 2.713
pull
Entries 88
Mean 174.1
Std Dev 0

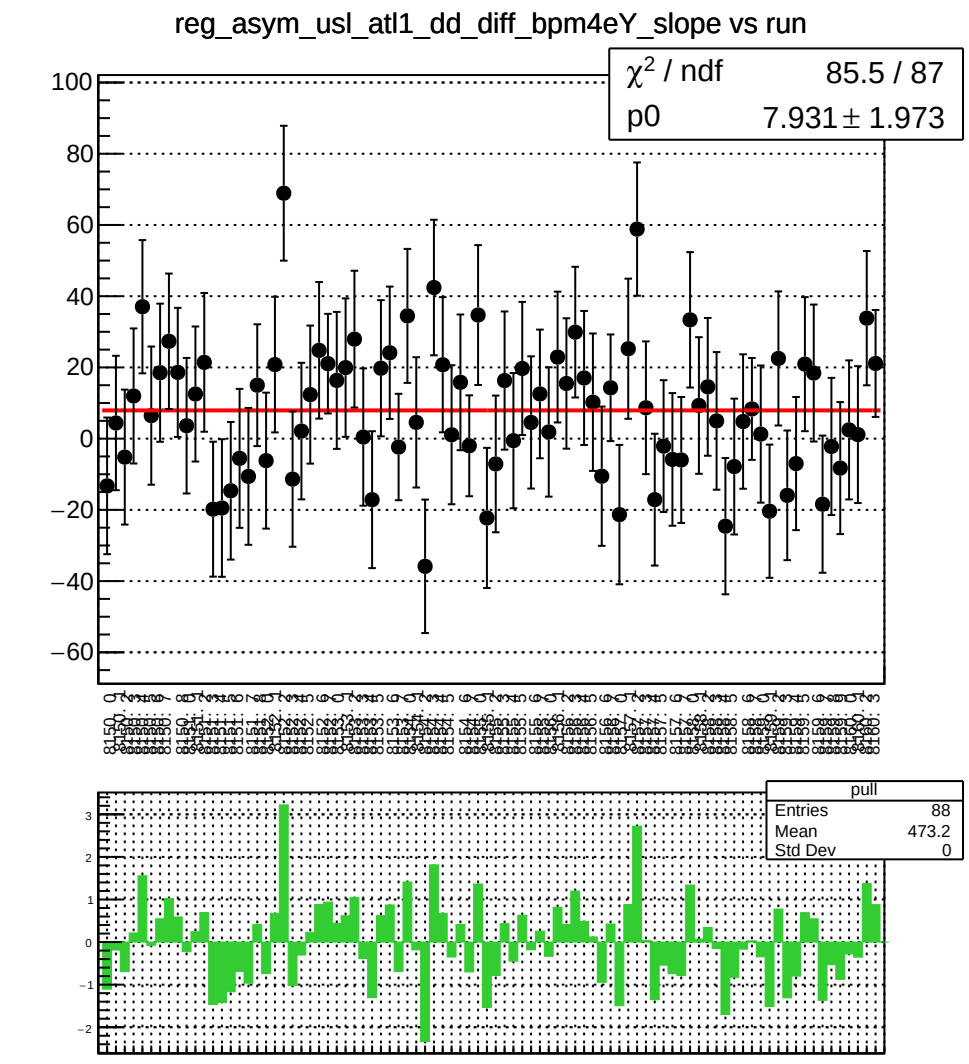

pull1D
Entries 88
Mean 0.005842
Std Dev 0.9354

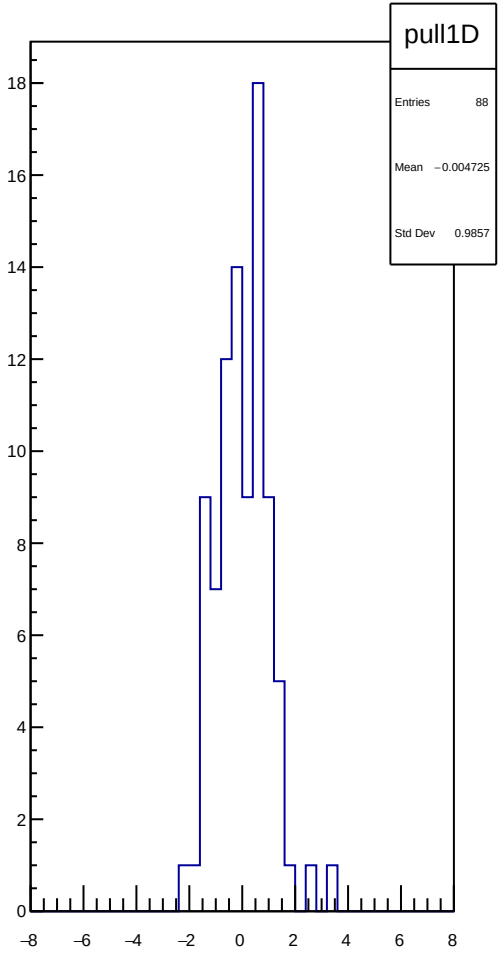

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 81.89 / 87
p0 −24.52 ± 0.1271
pull
Entries 88
Mean −73.72
Std Dev 0
pull1D
Entries 88
Mean −0.007159
Std Dev 0.9647

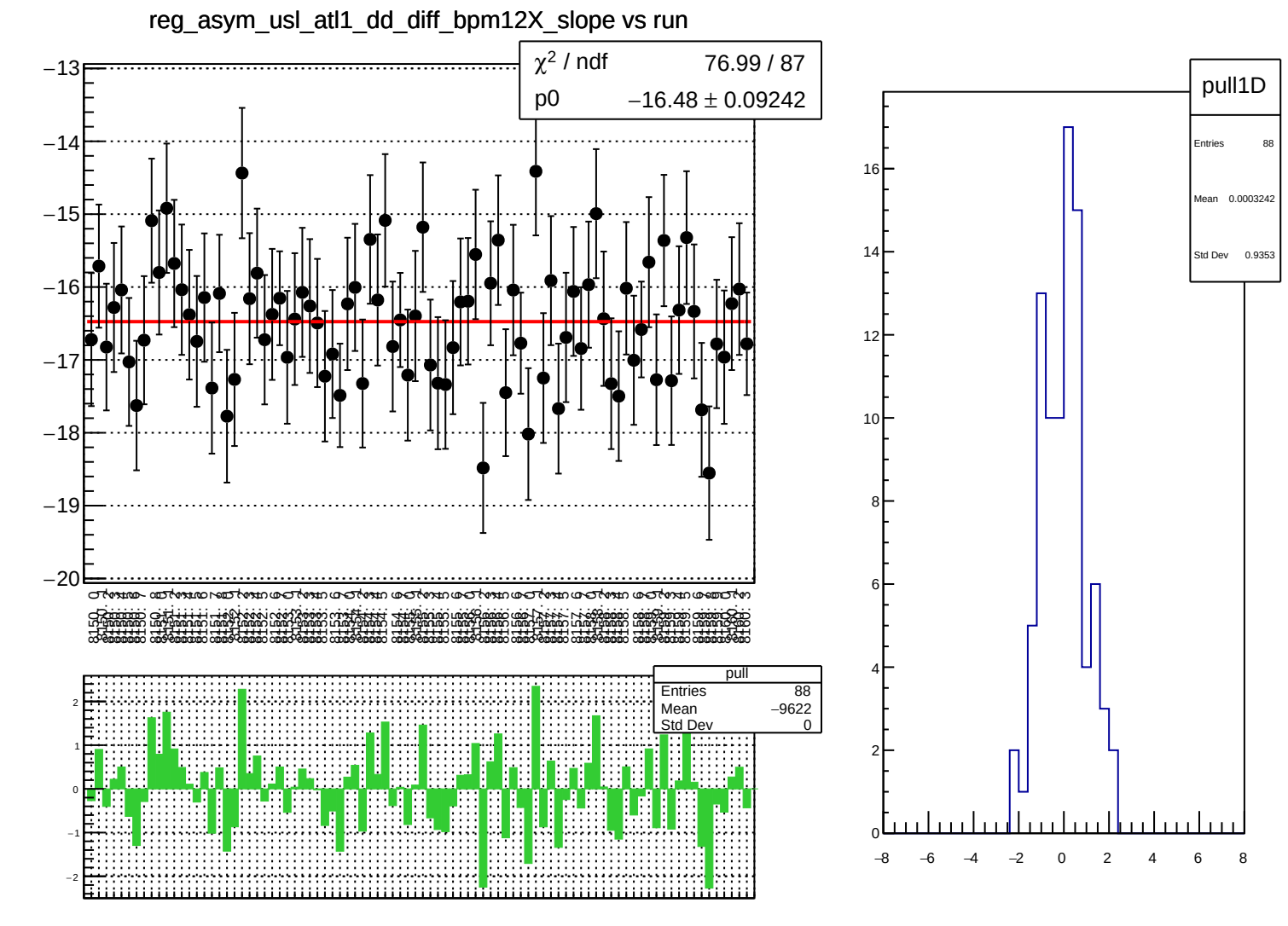

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 87.45 / 87
p0 −32.63 ± 0.9833
pull
Entries 88
Mean 477.3
Std Dev 0
pull1D
Entries 88
Mean 0.004719
Std Dev 0.9969

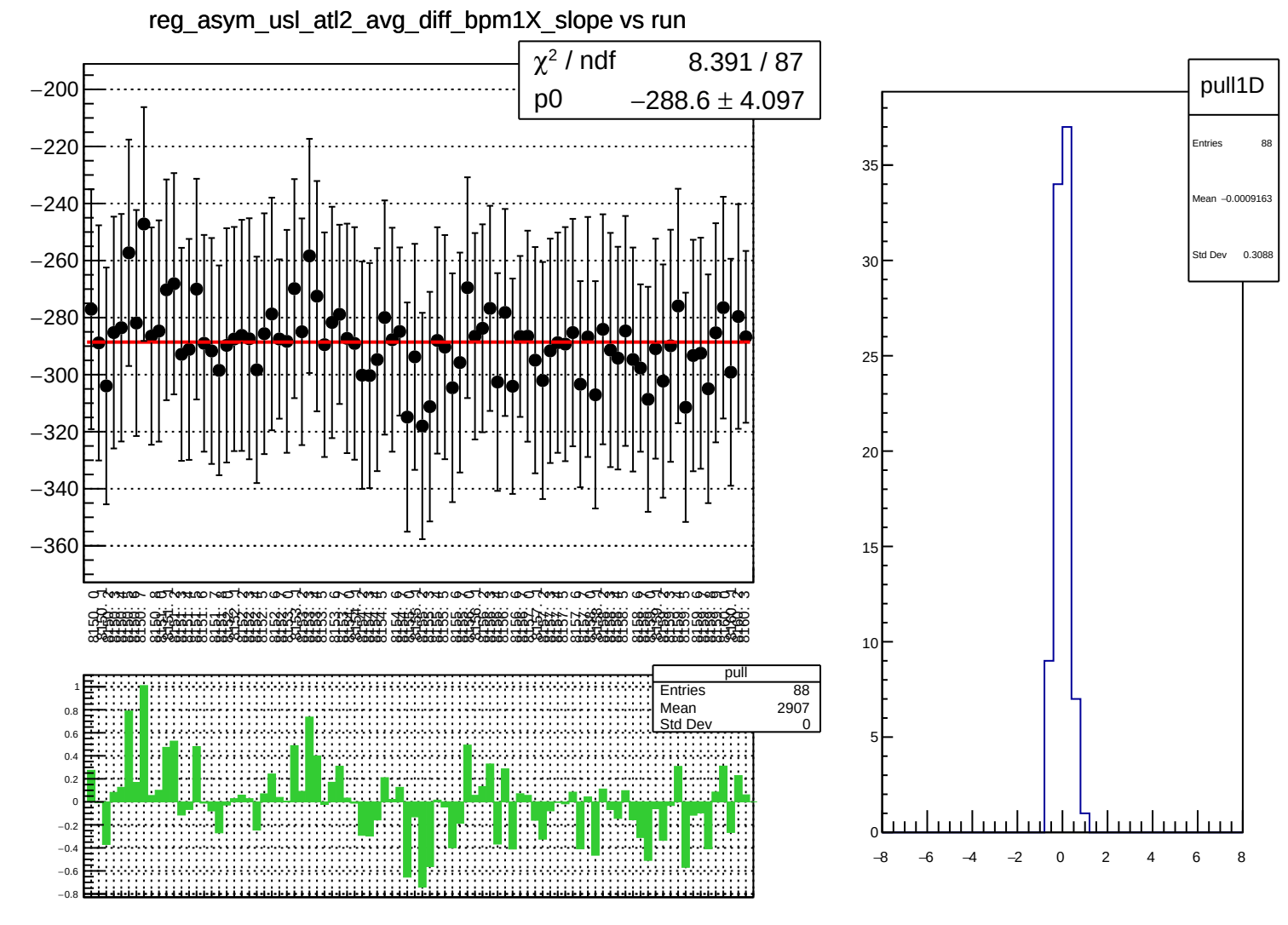

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.93 / 87
p0 6.305 ± 1.842
pull
Entries 88
Mean 687.4
Std Dev 0
pull1D
Entries 88
Mean 0.003659
Std Dev 0.9882

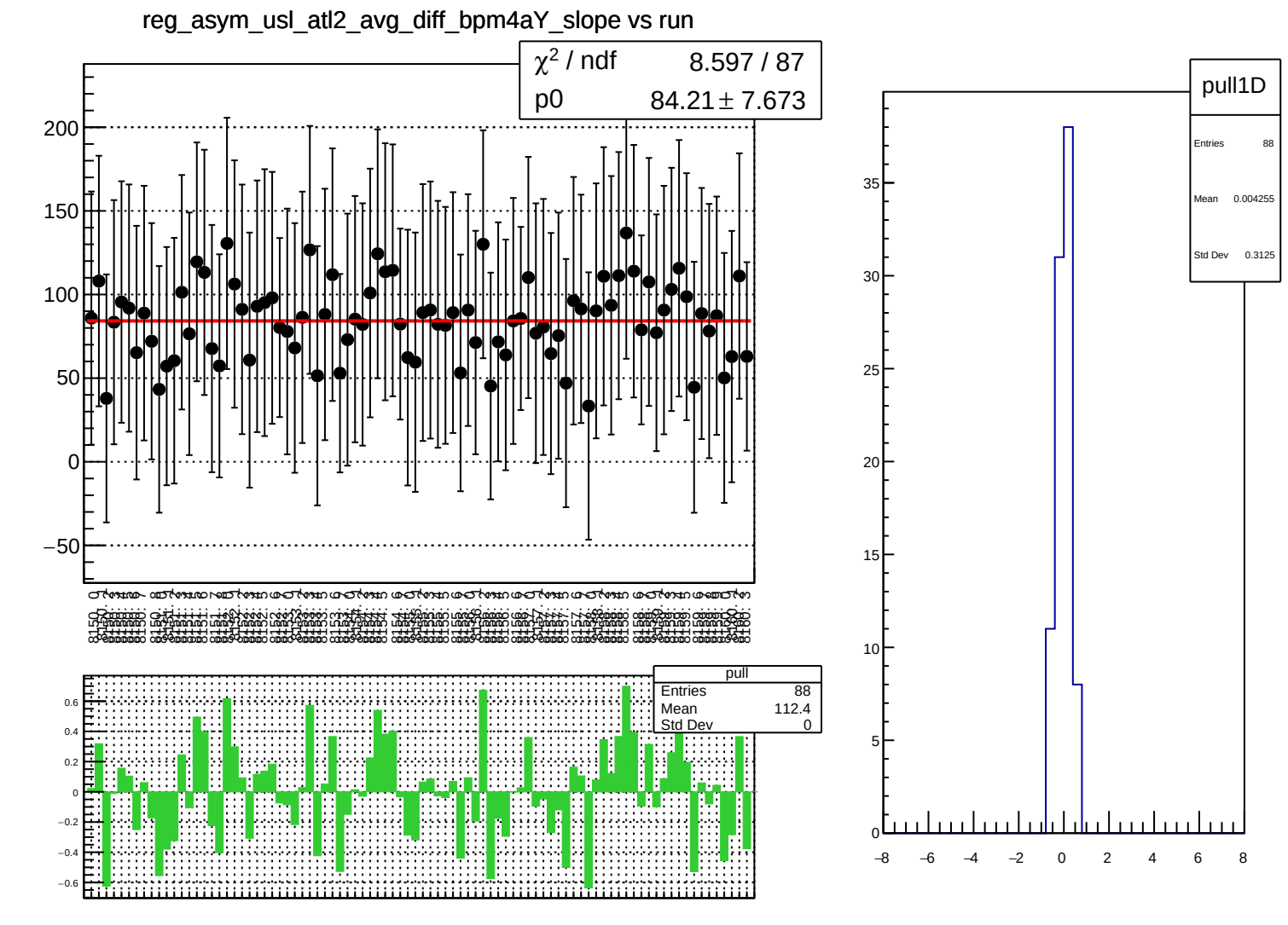

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 87.57 / 87
p0 −17.58 ± 0.9966
pull
Entries 88
Mean 631.8
Std Dev 0
pull1D
Entries 88
Mean −0.003563
Std Dev 0.9975

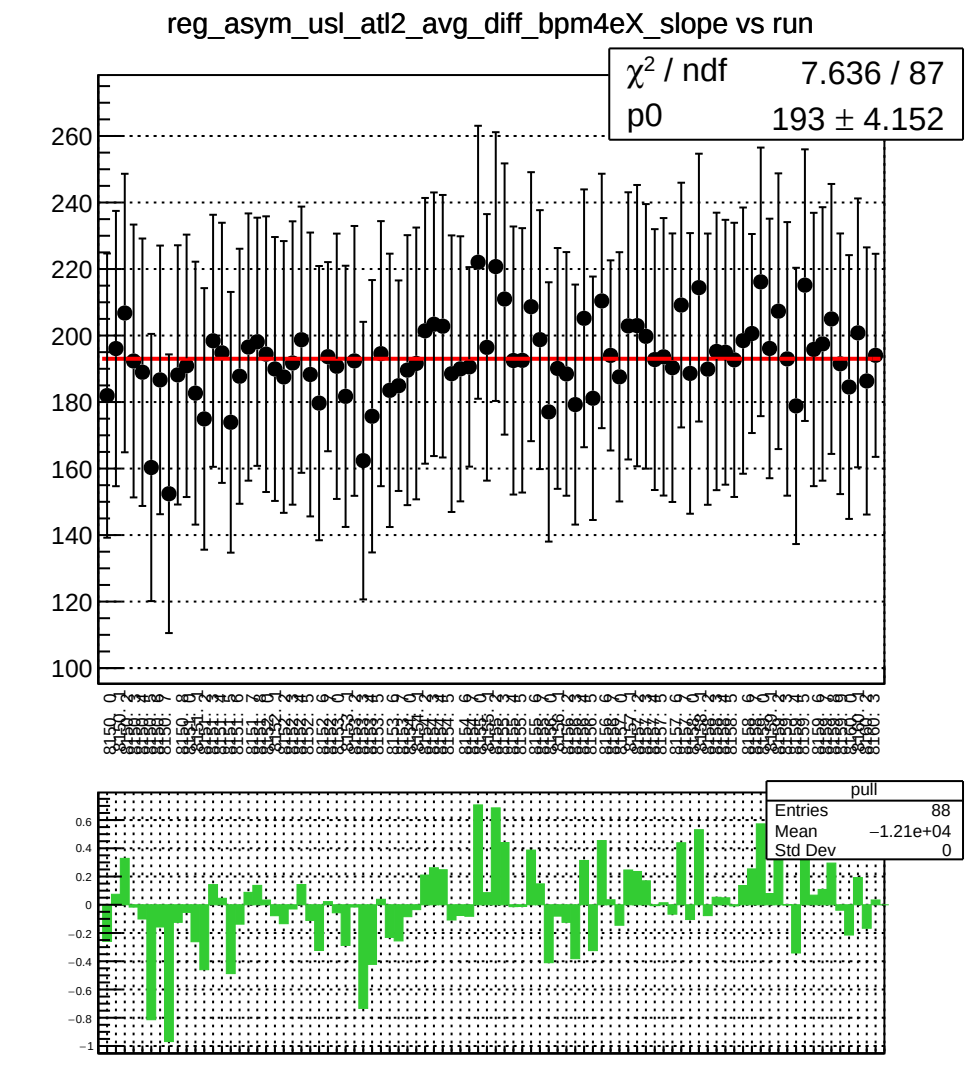

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.5 / 87
p0 7.931 ± 1.973
pull
Entries 88
Mean 473.2
Std Dev 0

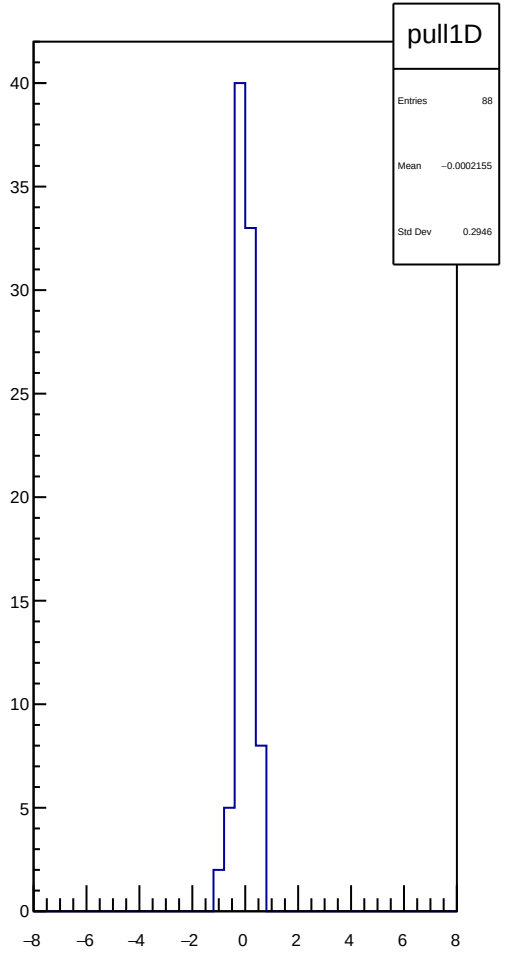

pull1D
Entries 88
Mean −0.004725
Std Dev 0.9857

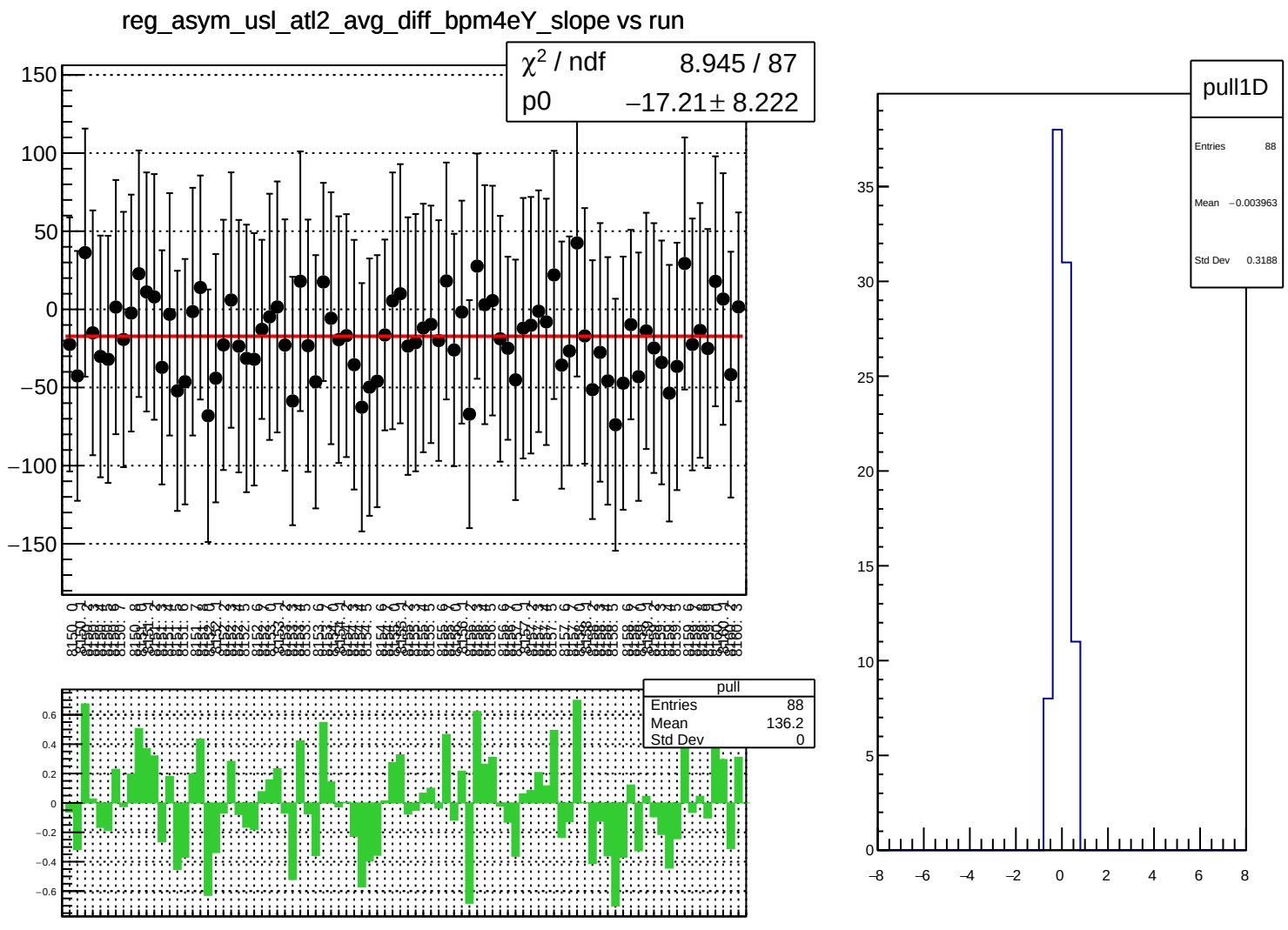

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 76.99 / 87
p0 −16.48 ± 0.09242
pull
Entries 88
Mean −9622
Std Dev 0
pull1D
Entries 88
Mean 0.0003242
Std Dev 0.9353

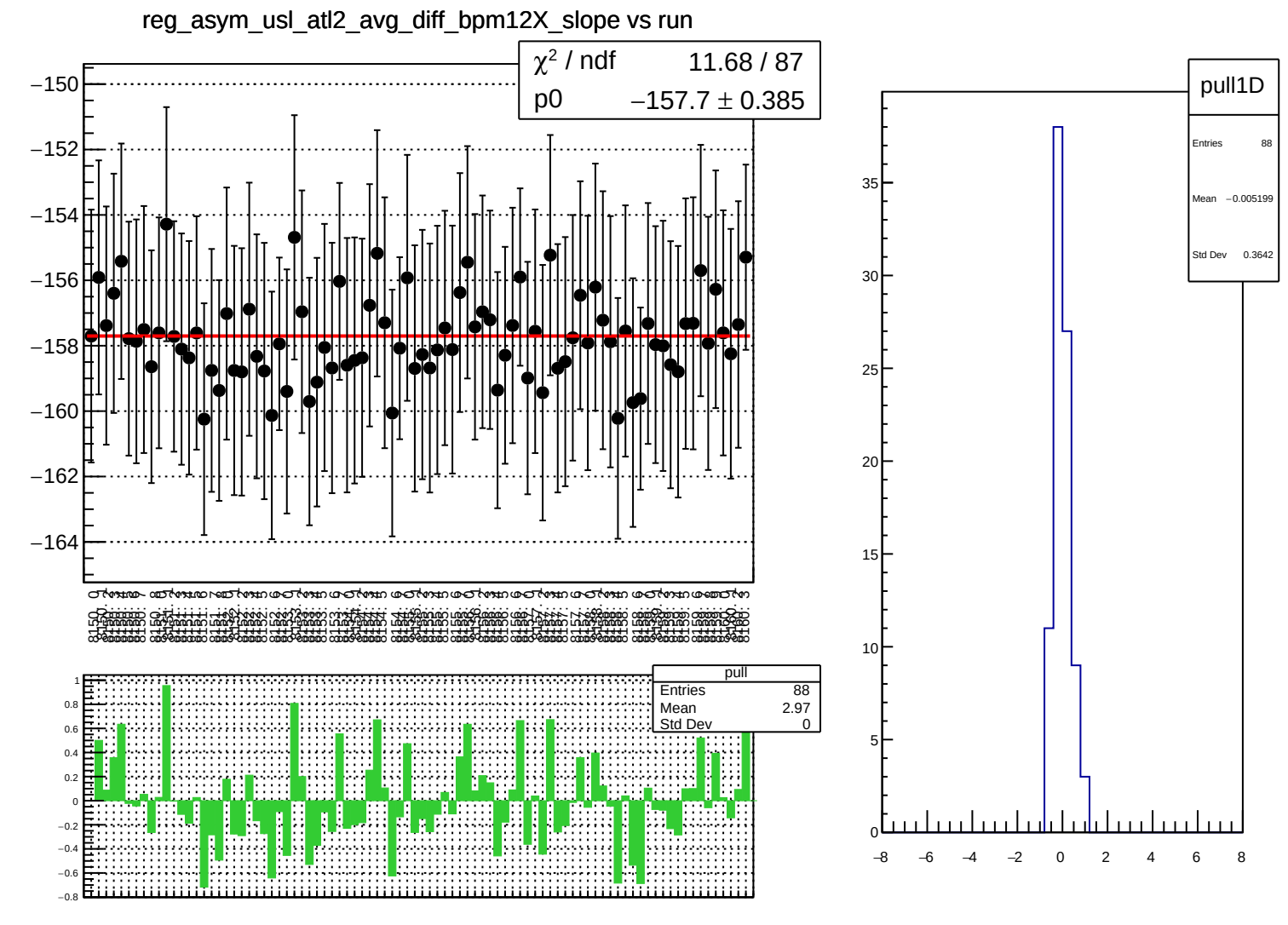

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.391 / 87
p0 −288.6 ± 4.097
pull
Entries 88
Mean 2907
Std Dev 0
pull1D
Entries 88
Mean −0.0009163
Std Dev 0.3088

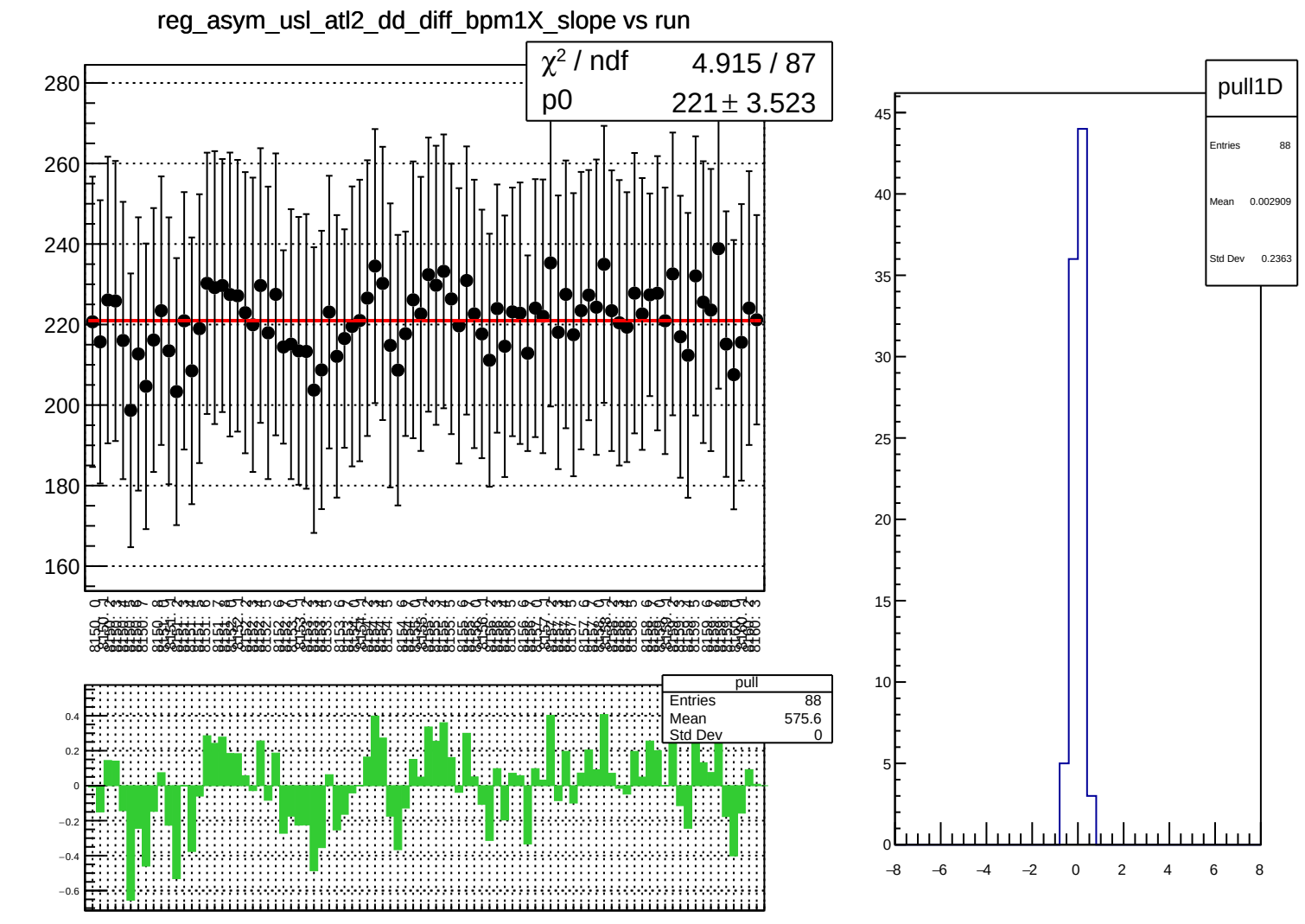

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.597 / 87
p0 84.21 ± 7.673
200
150
100
50
0
−50
pull
Entries 88
Mean 112.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.004255
Std Dev 0.3125
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

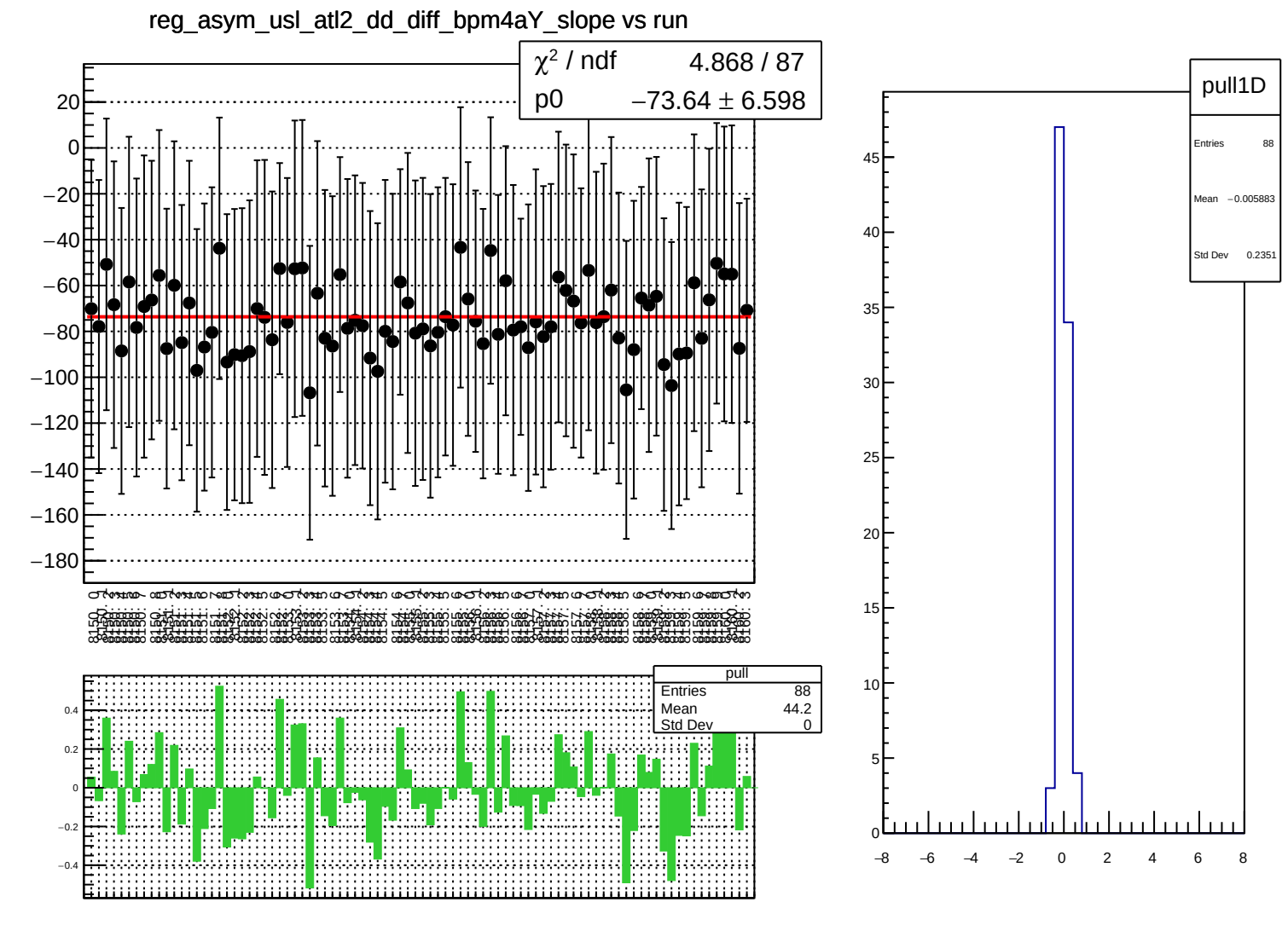

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.636 / 87
p0 193 ± 4.152
pull
Entries 88
Mean −1.21e+04
Std Dev 0

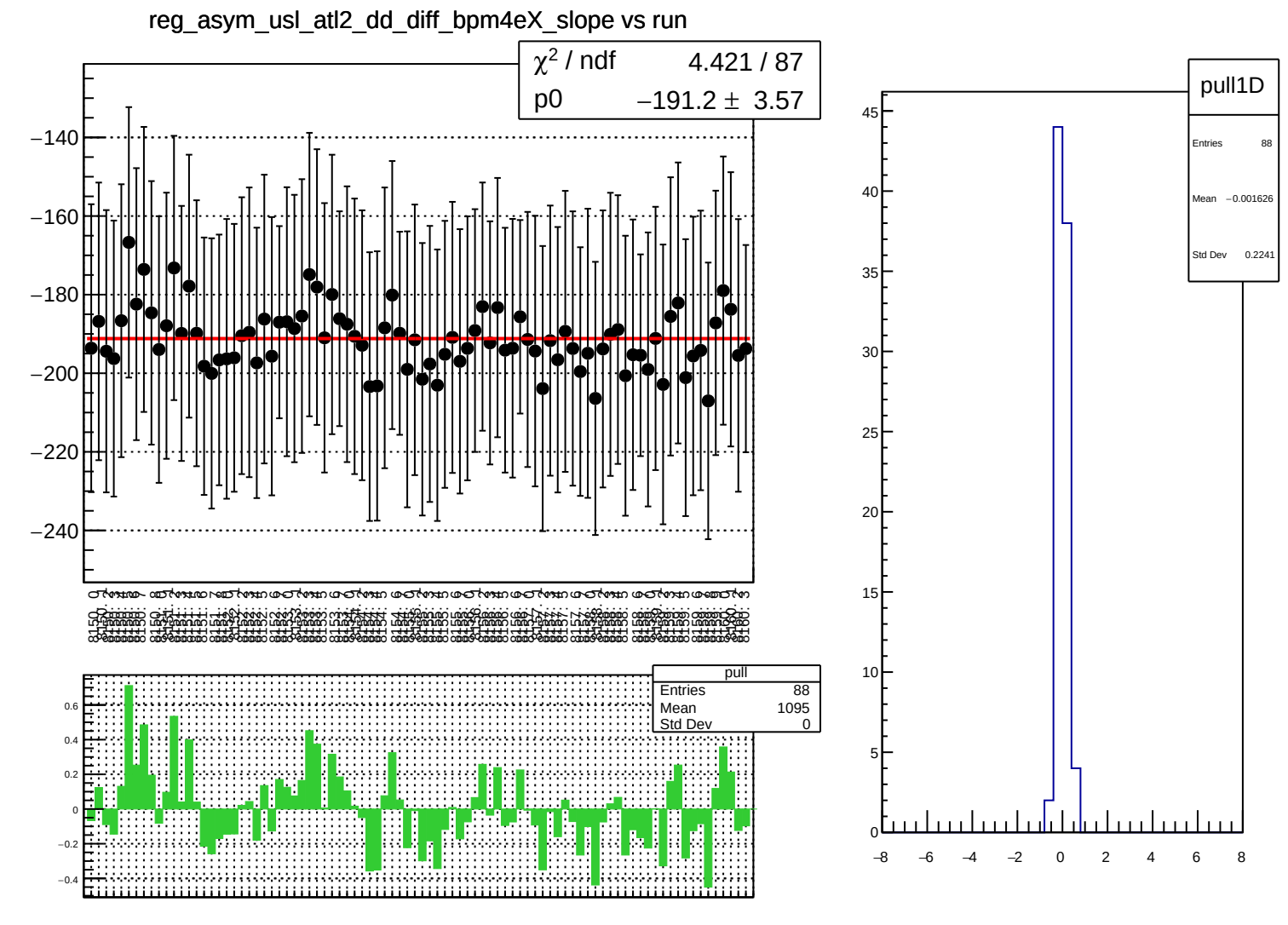

pull1D
Entries 88
Mean −0.0002155
Std Dev 0.2946

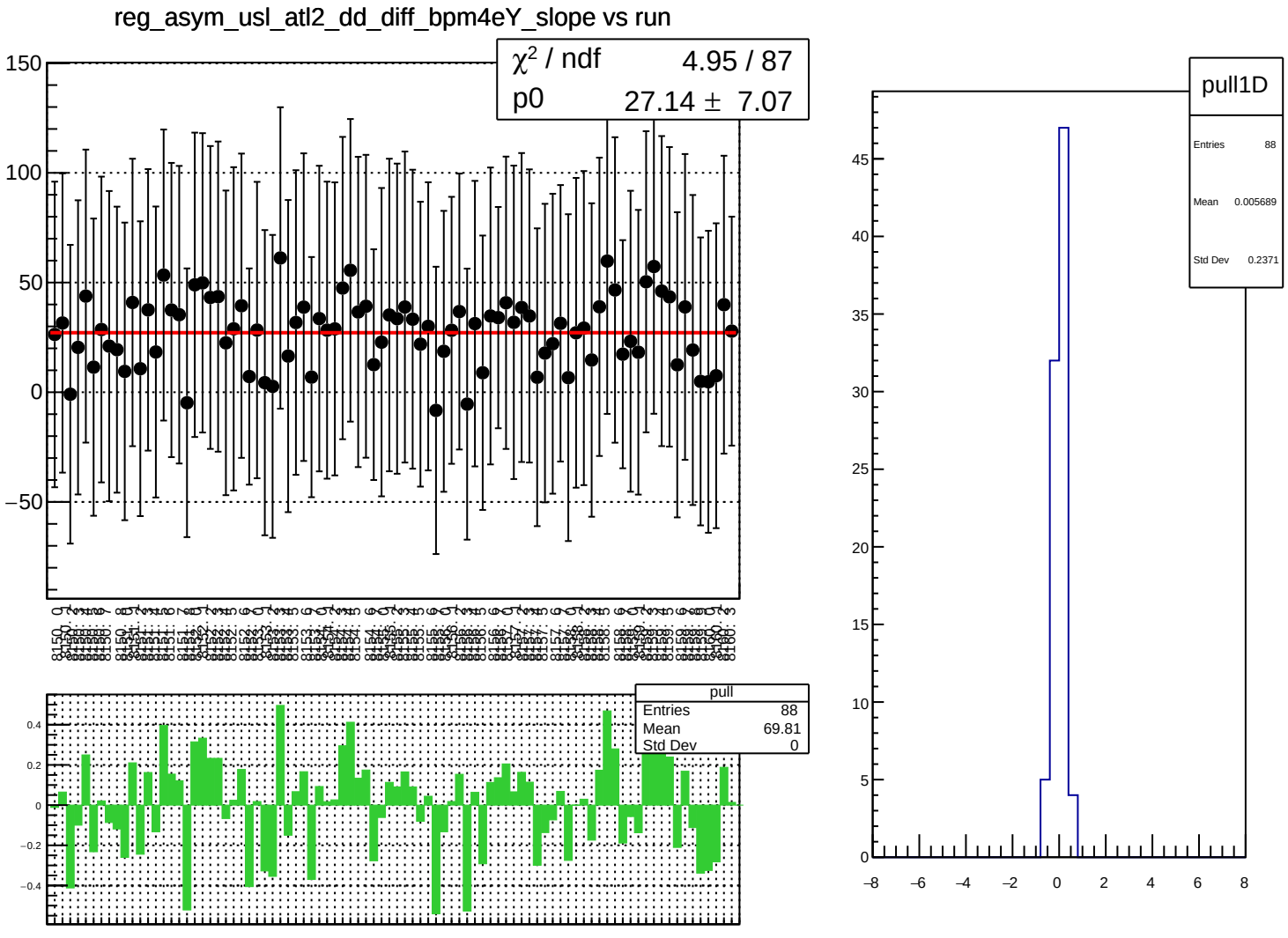

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.945 / 87
p0 −17.21 ± 8.222
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 136.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.003963
Std Dev 0.3188
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

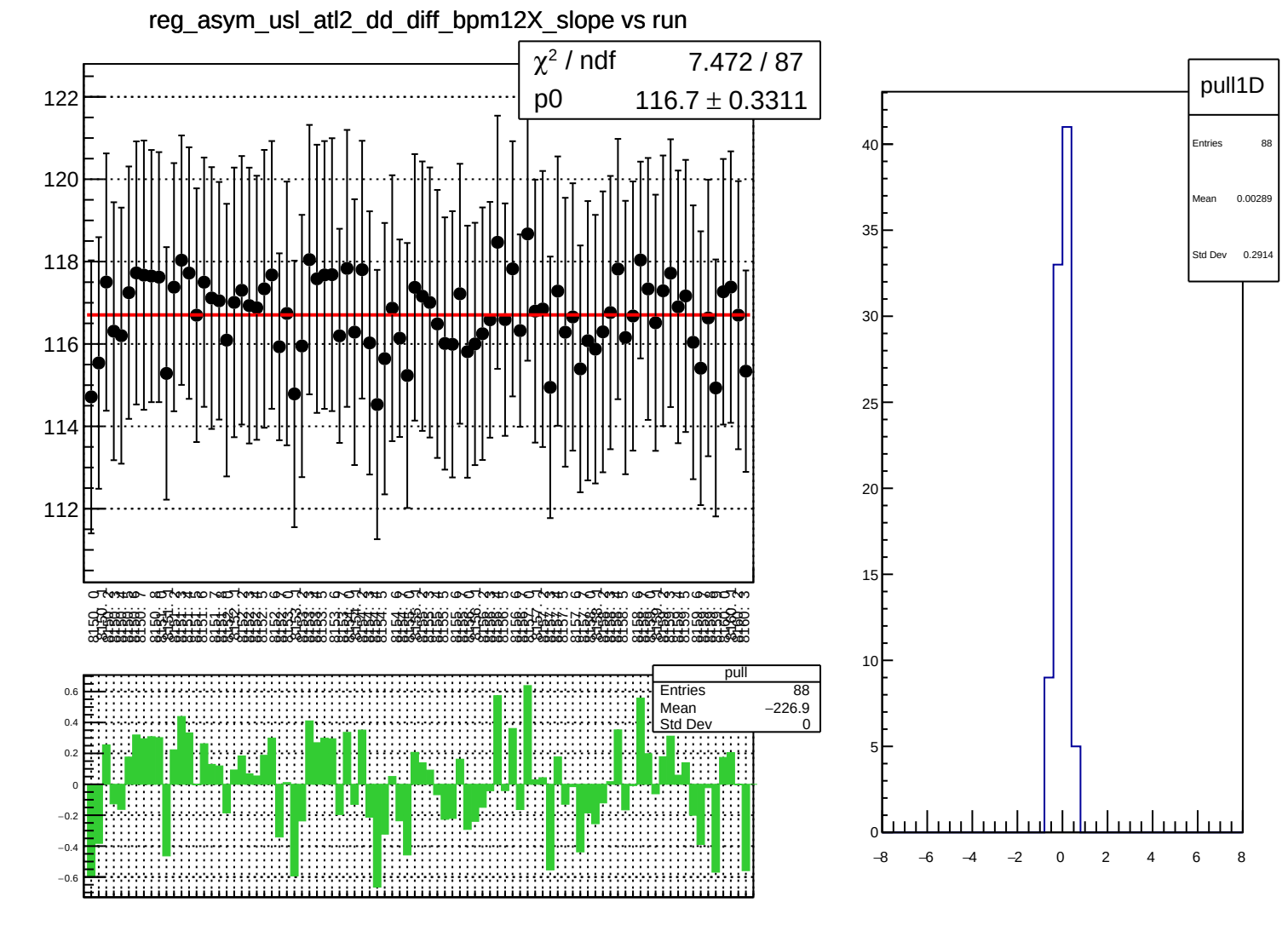

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 11.68 / 87
p0 −157.7 ± 0.385
pull
Entries 88
Mean 2.97
Std Dev 0
pull1D
Entries 88
Mean −0.005199
Std Dev 0.3642

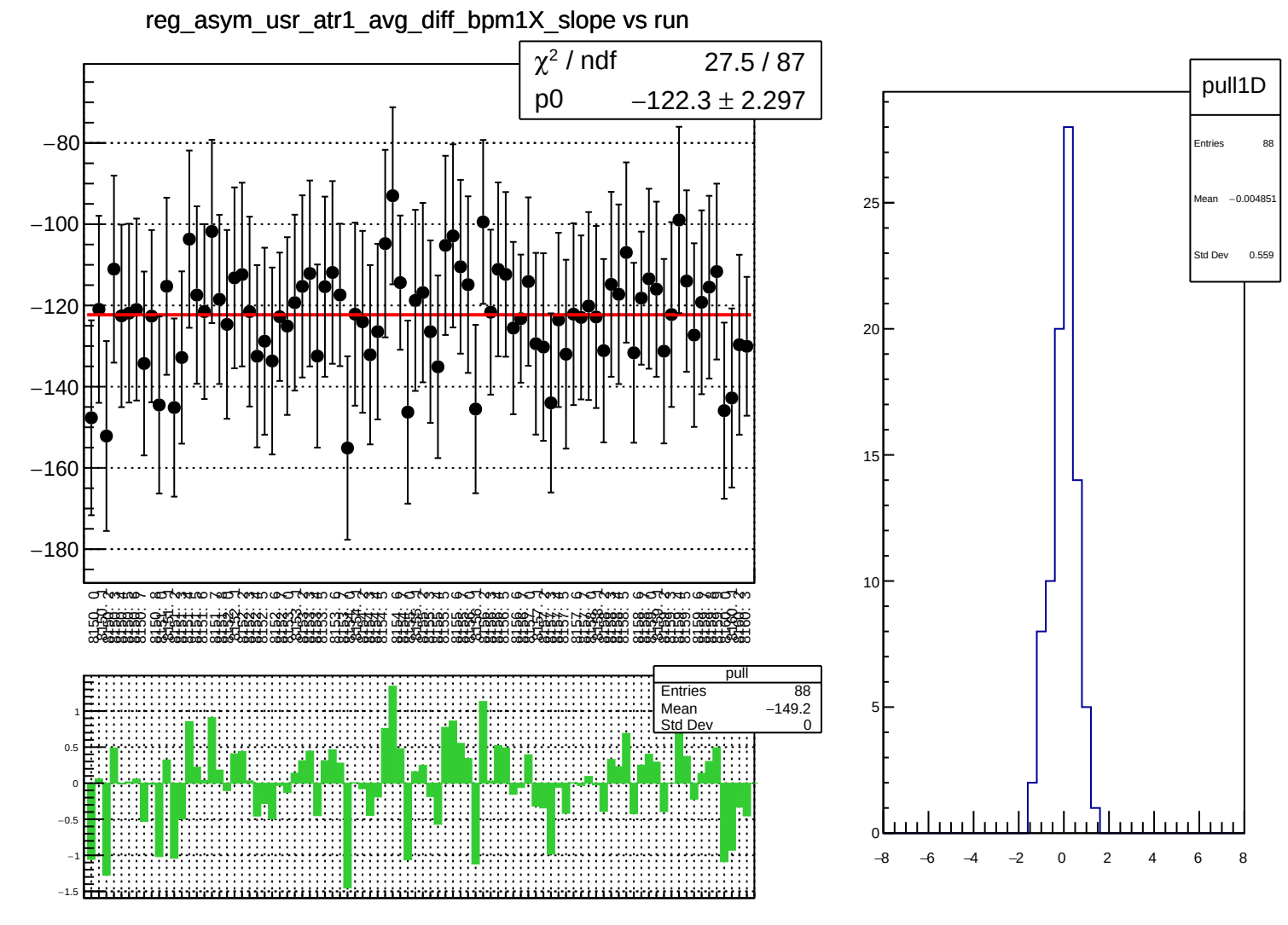

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 4.915 / 87
p0 221 ± 3.523
280
260
240
220
200
180
160
pull
Entries 88
Mean 575.6
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.002909
Std Dev 0.2363
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

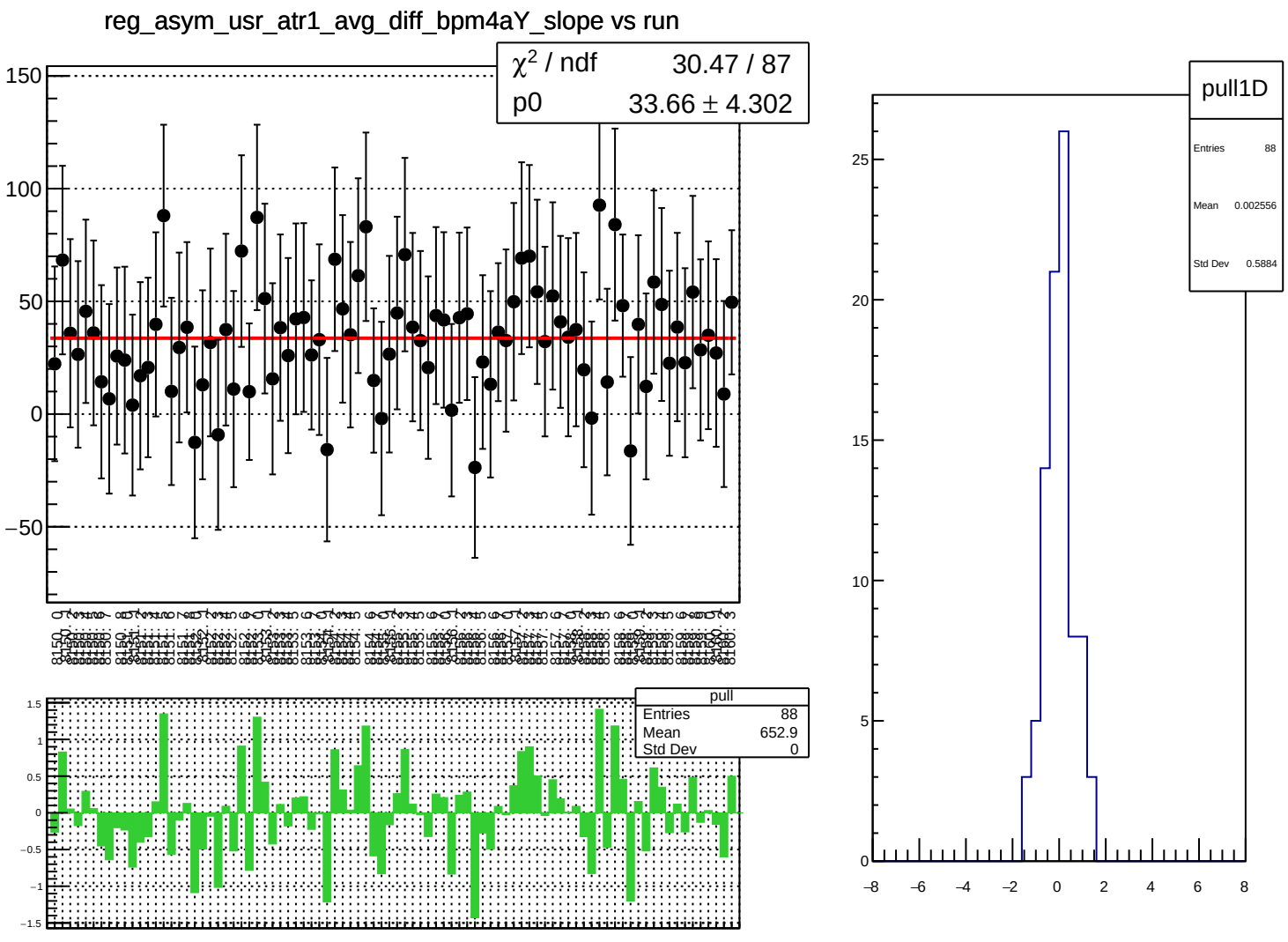

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.868 / 87
p0 −73.64 ± 6.598
pull
Entries 88
Mean 44.2
Std Dev 0
pull1D
Entries 88
Mean −0.005883
Std Dev 0.2351

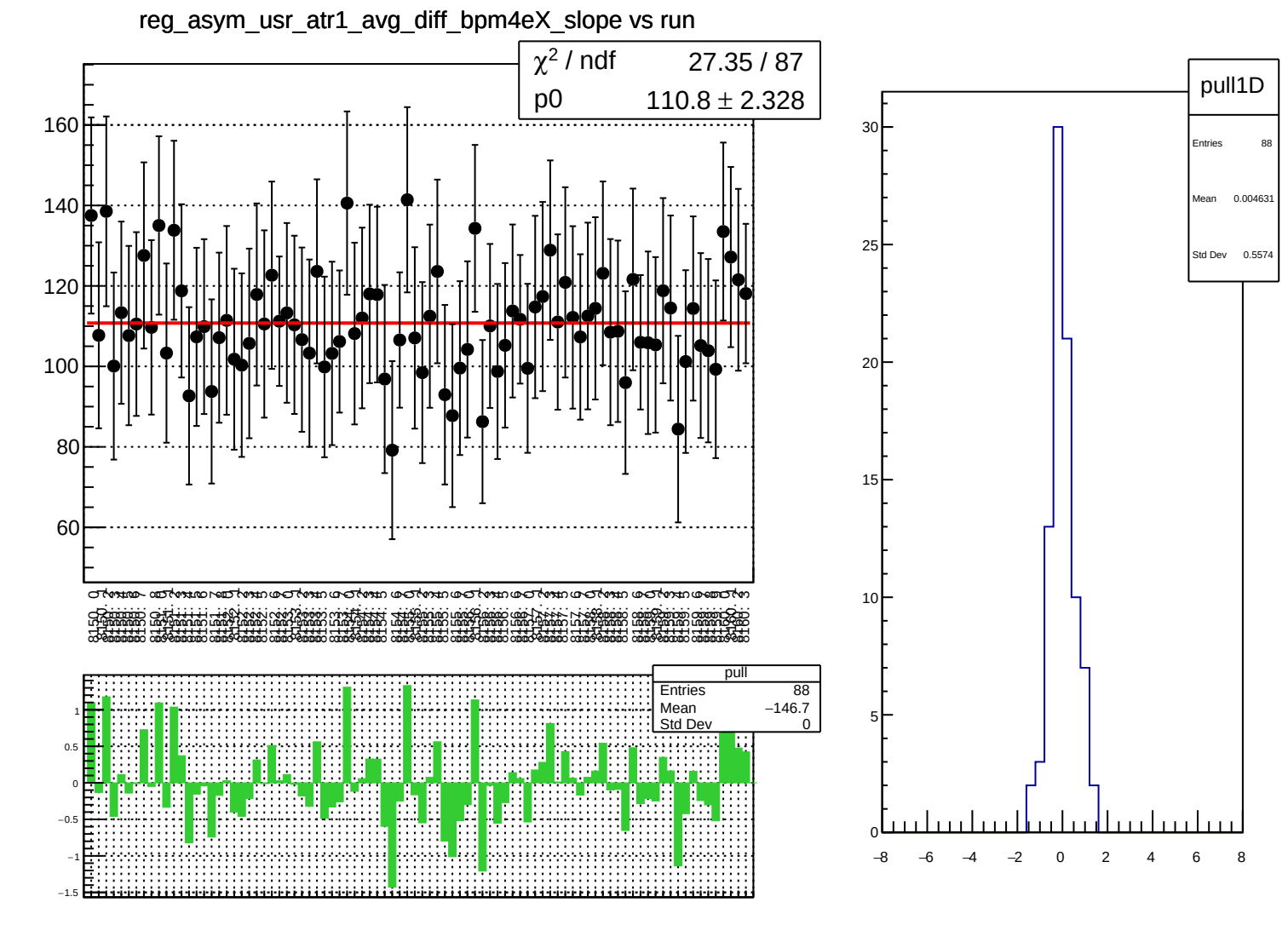

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.421 / 87
p0 −191.2 ± 3.57
−140
−160
−180
−200
−220
−240
pull
Entries 88
Mean 1095
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.001626
Std Dev 0.2241
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

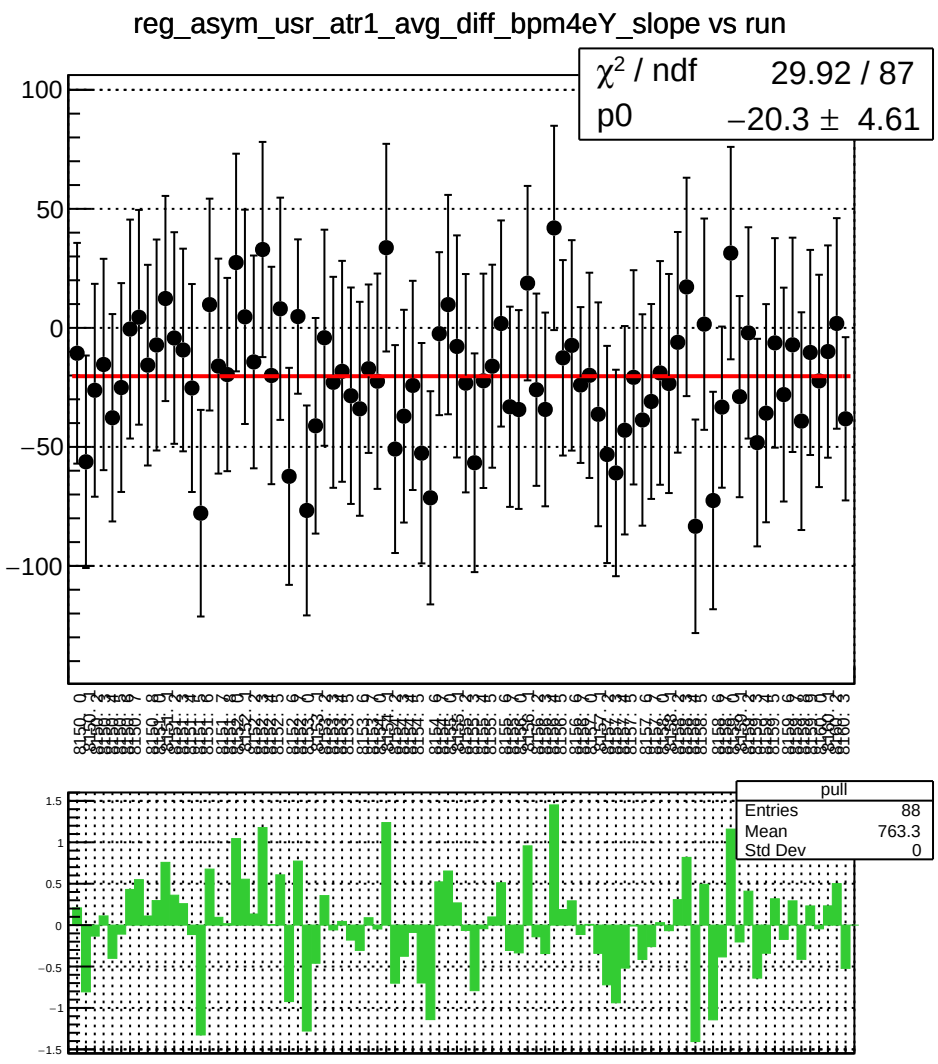

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.95 / 87
p0 27.14 ± 7.07
150
100
50
0
−50
pull
Entries 88
Mean 69.81
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean 0.005689
Std Dev 0.2371
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

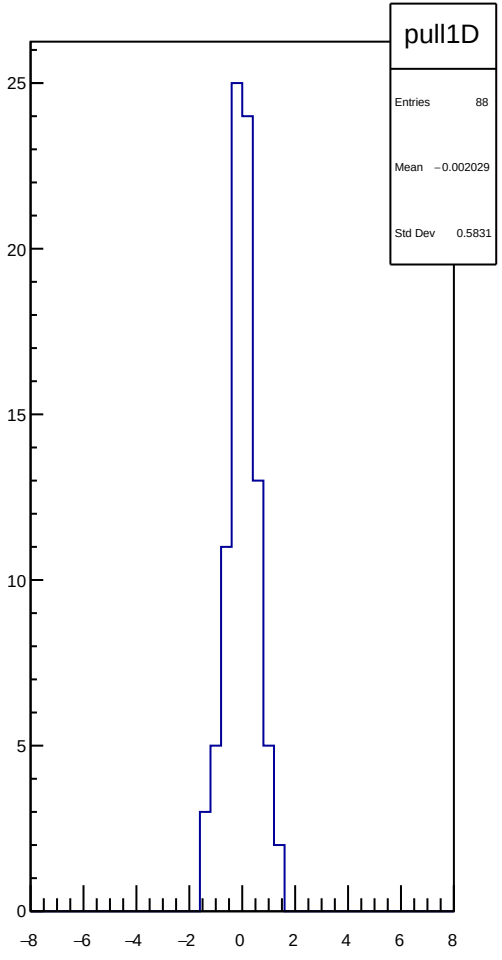

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 7.472 / 87
p0 116.7 ± 0.3311
122
120
118
116
114
112
pull
Entries 88
Mean −226.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.00289
Std Dev 0.2914
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

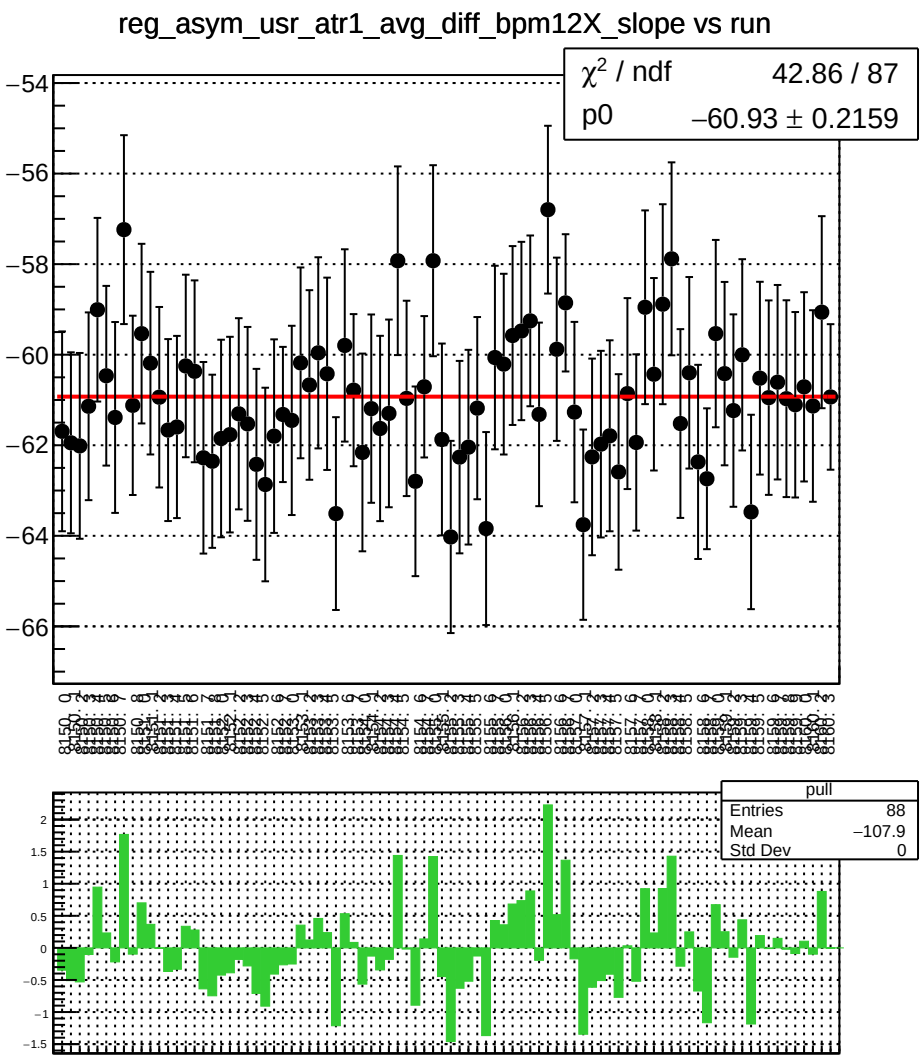

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 27.5 / 87
p0 −122.3 ± 2.297
−80
−100
−120
−140
−160
−180
pull
Entries 88
Mean −149.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −0.004851
Std Dev 0.559
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

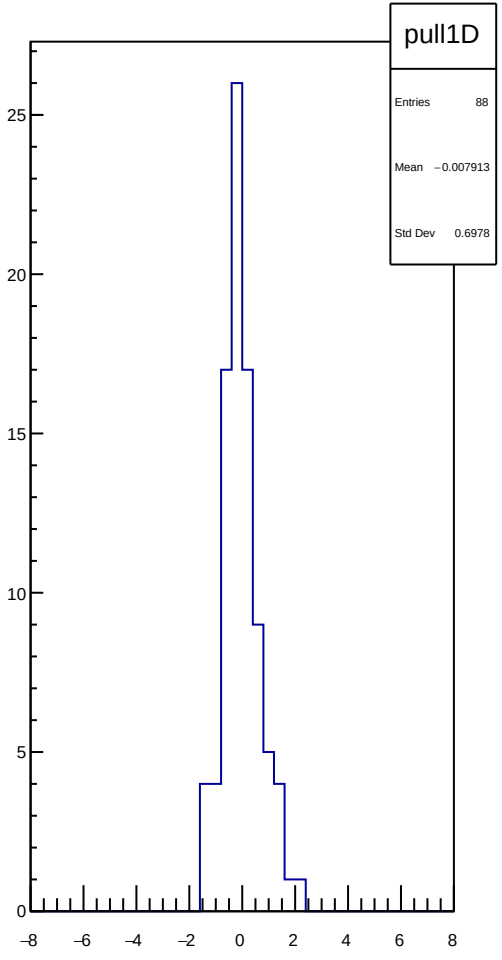

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.47 / 87
p0 33.66 ± 4.302
150
100
50
0
−50
pull
Entries 88
Mean 652.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean 0.002556
Std Dev 0.5884
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

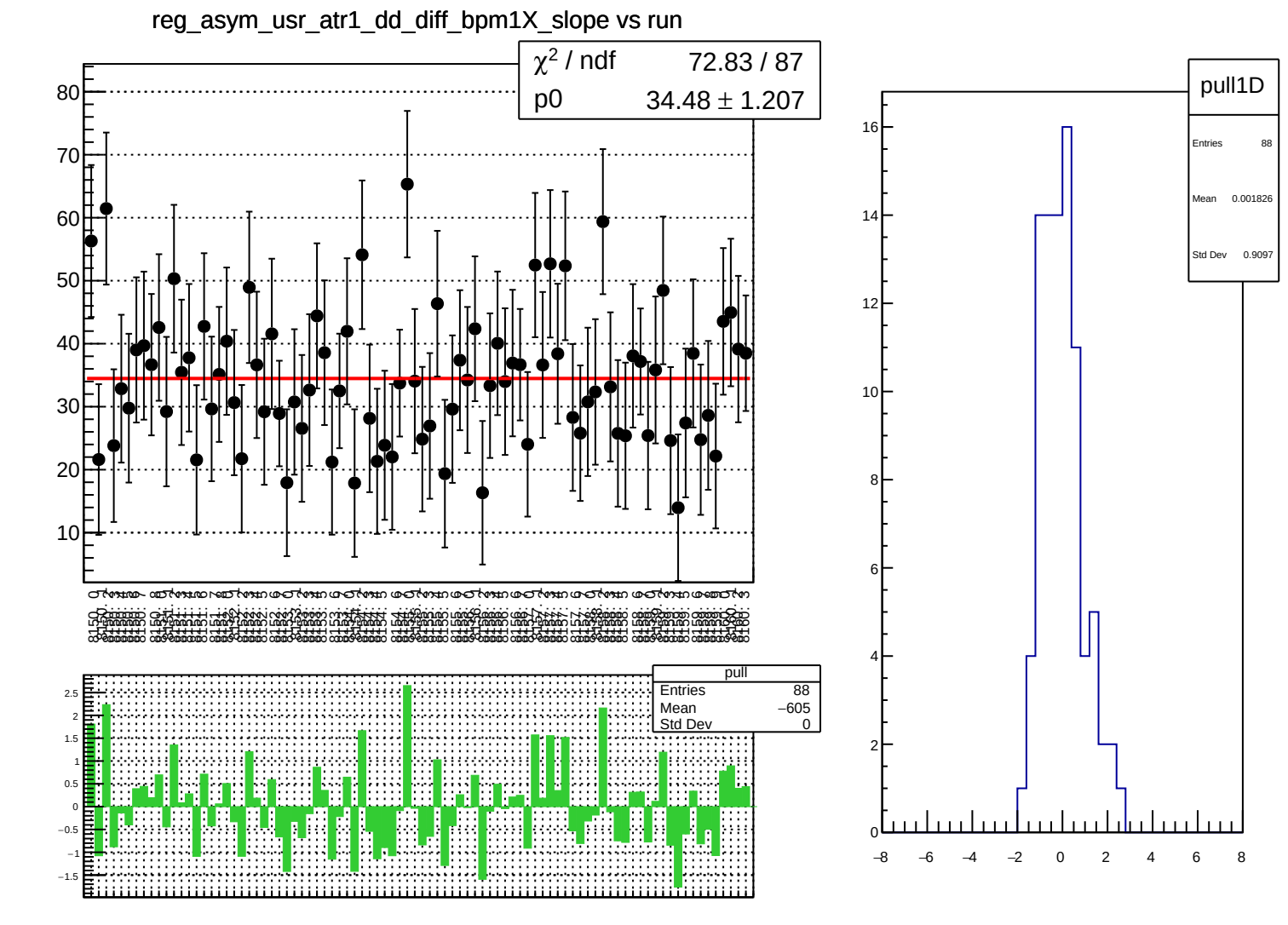

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.35 / 87
p0 110.8 ± 2.328
160
140
120
100
80
60
pull
Entries 88
Mean −146.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean 0.004631
Std Dev 0.5574
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

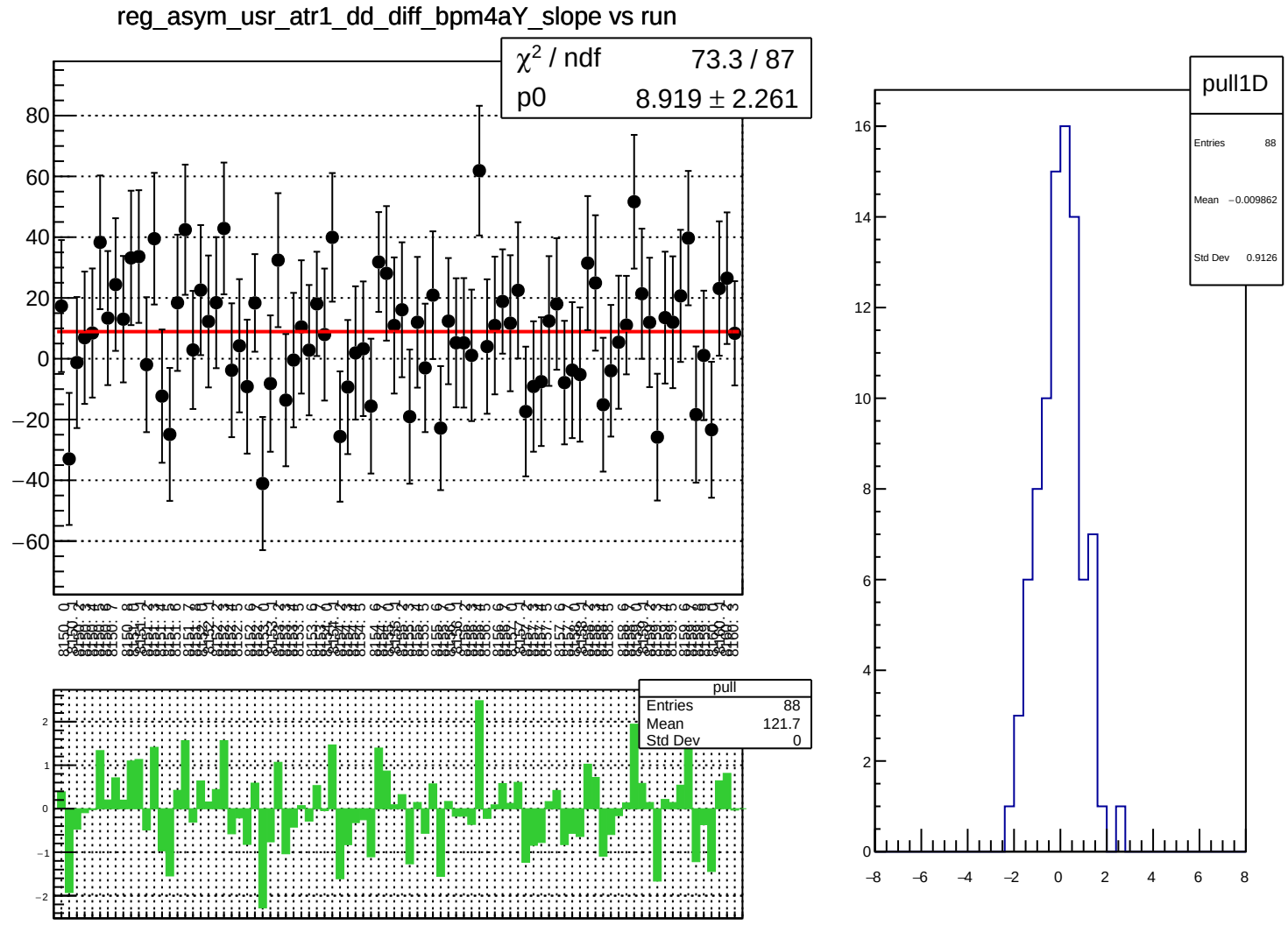

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.92 / 87
p0 −20.3 ± 4.61
pull
Entries 88
Mean 763.3
Std Dev 0

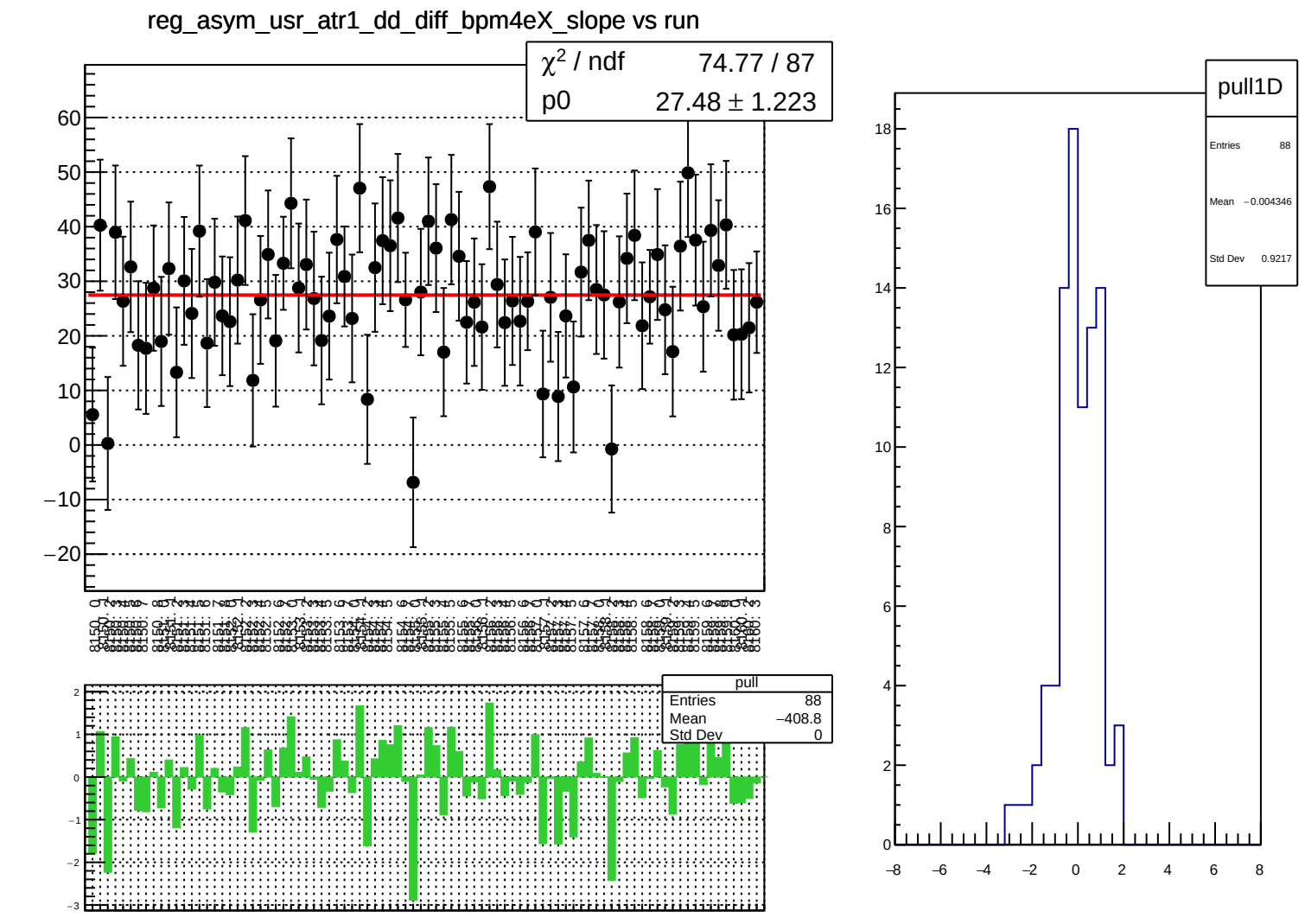

pull1D
Entries 88
Mean −0.002029
Std Dev 0.5831

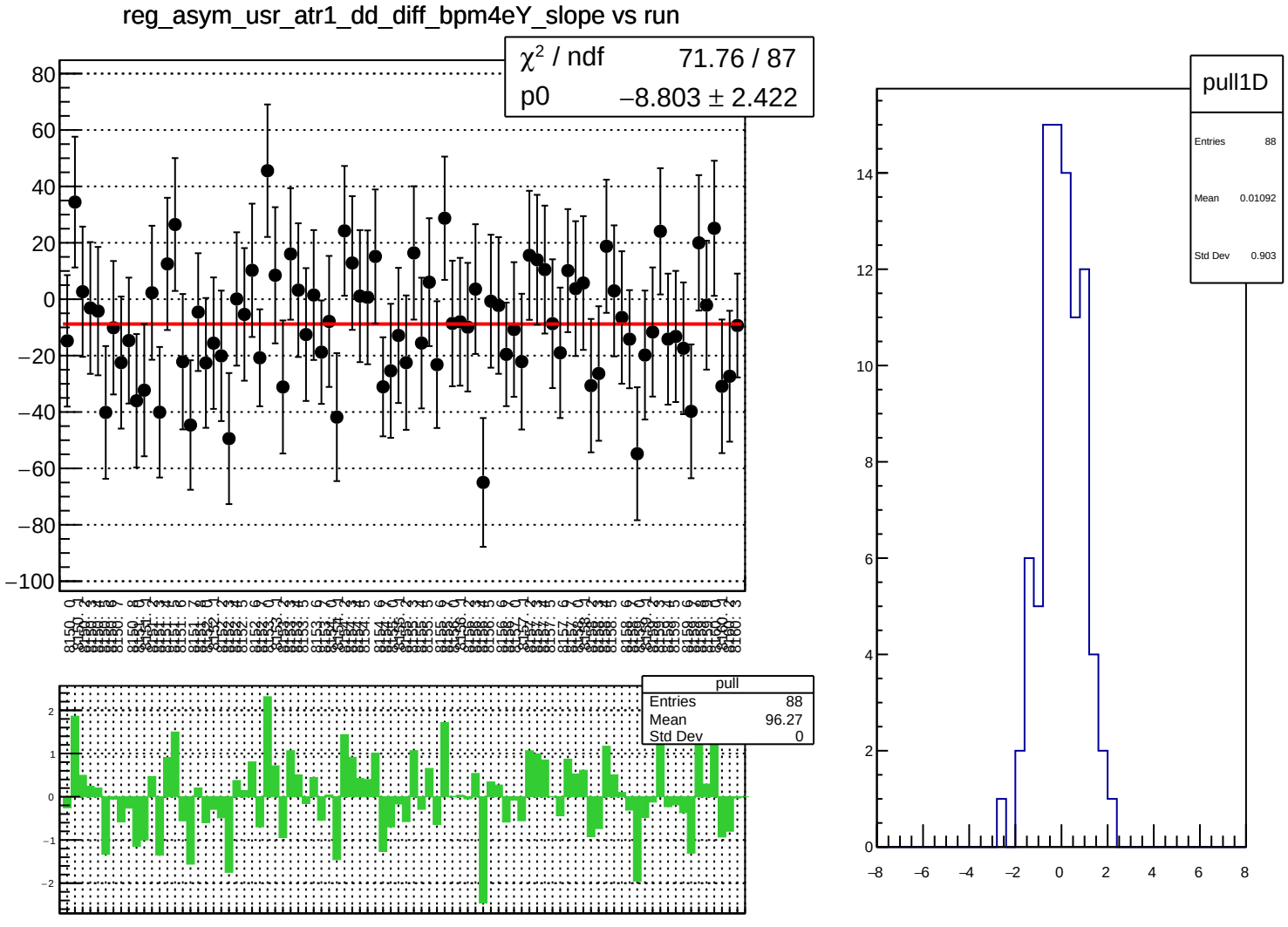

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 42.86 / 87
p0 −60.93 ± 0.2159
pull
Entries 88
Mean −107.9
Std Dev 0

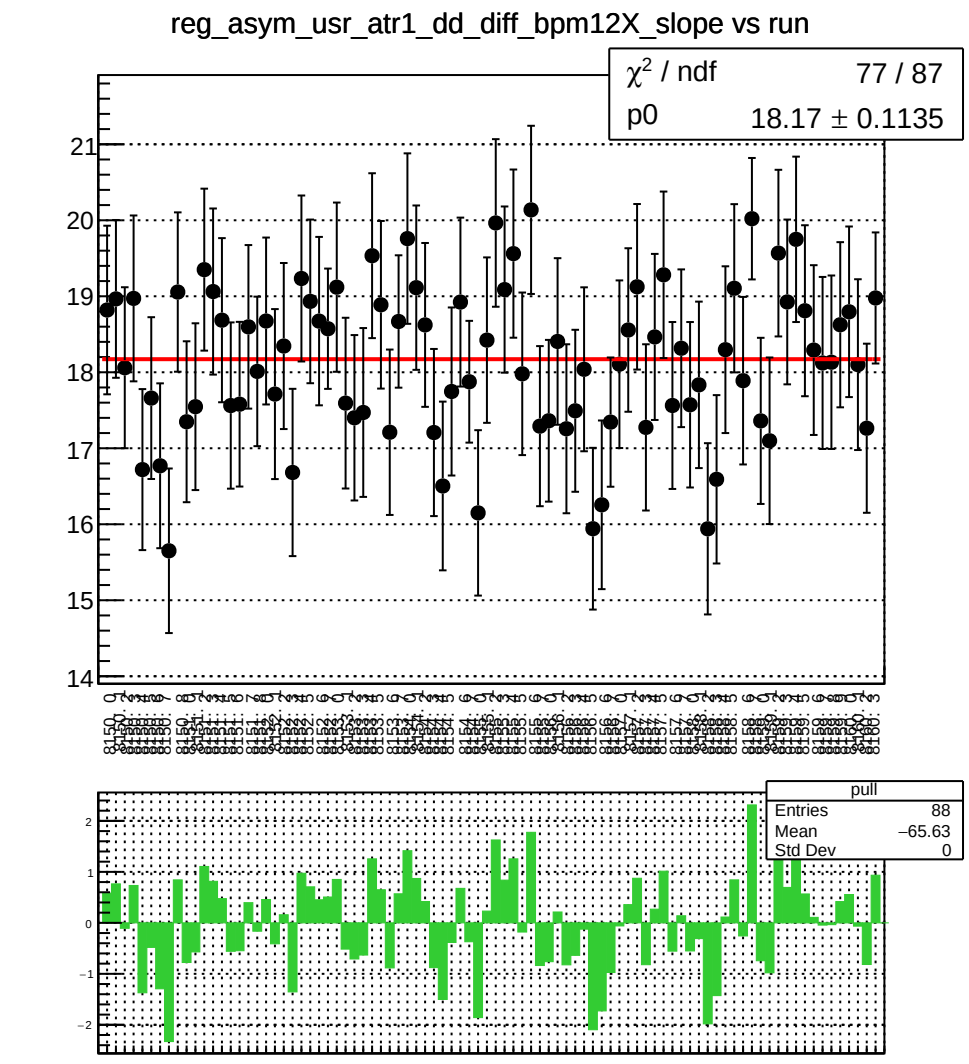

pull1D
Entries 88
Mean −0.007913
Std Dev 0.6978

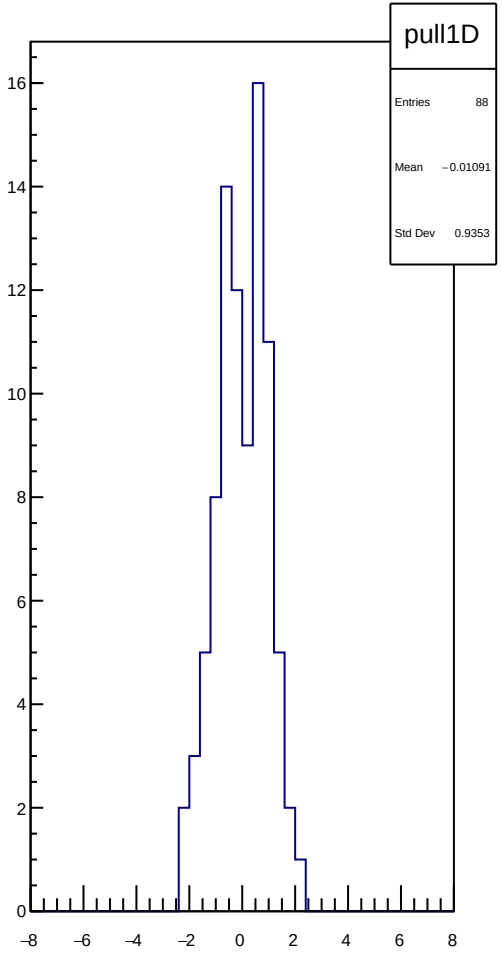

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 72.83 / 87
p0 34.48 ± 1.207
pull
Entries 88
Mean −605
Std Dev 0
pull1D
Entries 88
Mean 0.001826
Std Dev 0.9097

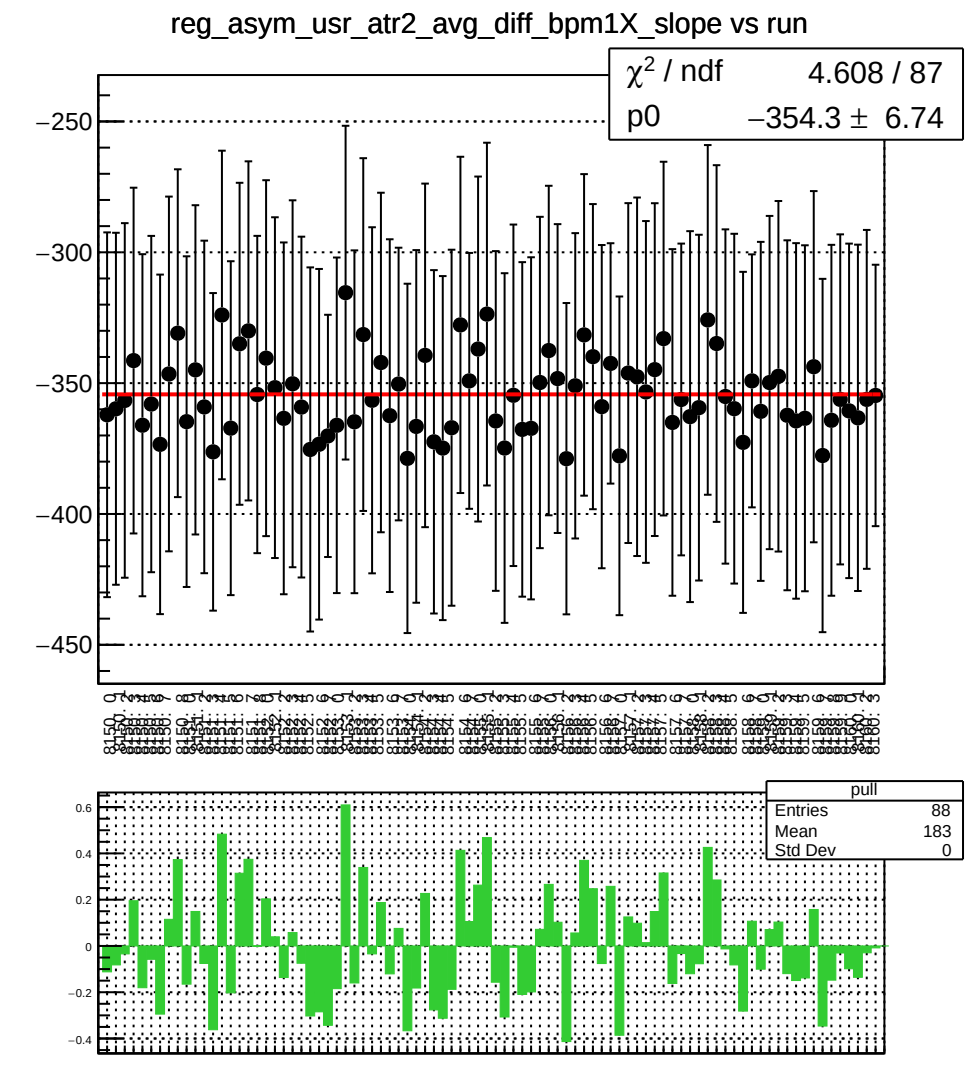

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.3 / 87
p0 8.919 ± 2.261
pull
Entries 88
Mean 121.7
Std Dev 0
pull1D
Entries 88
Mean −0.009862
Std Dev 0.9126

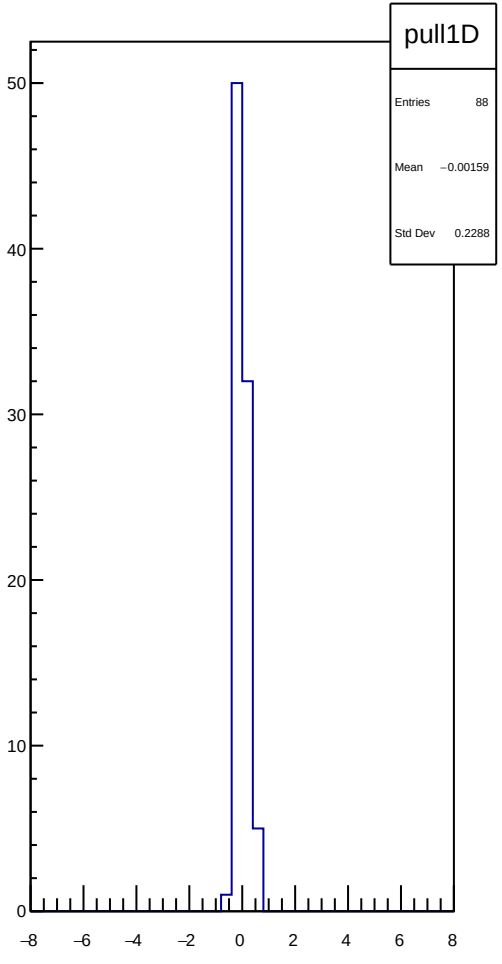

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.77 / 87
p0 27.48 ± 1.223
pull
Entries 88
Mean −408.8
Std Dev 0
pull1D
Entries 88
Mean −0.004346
Std Dev 0.9217

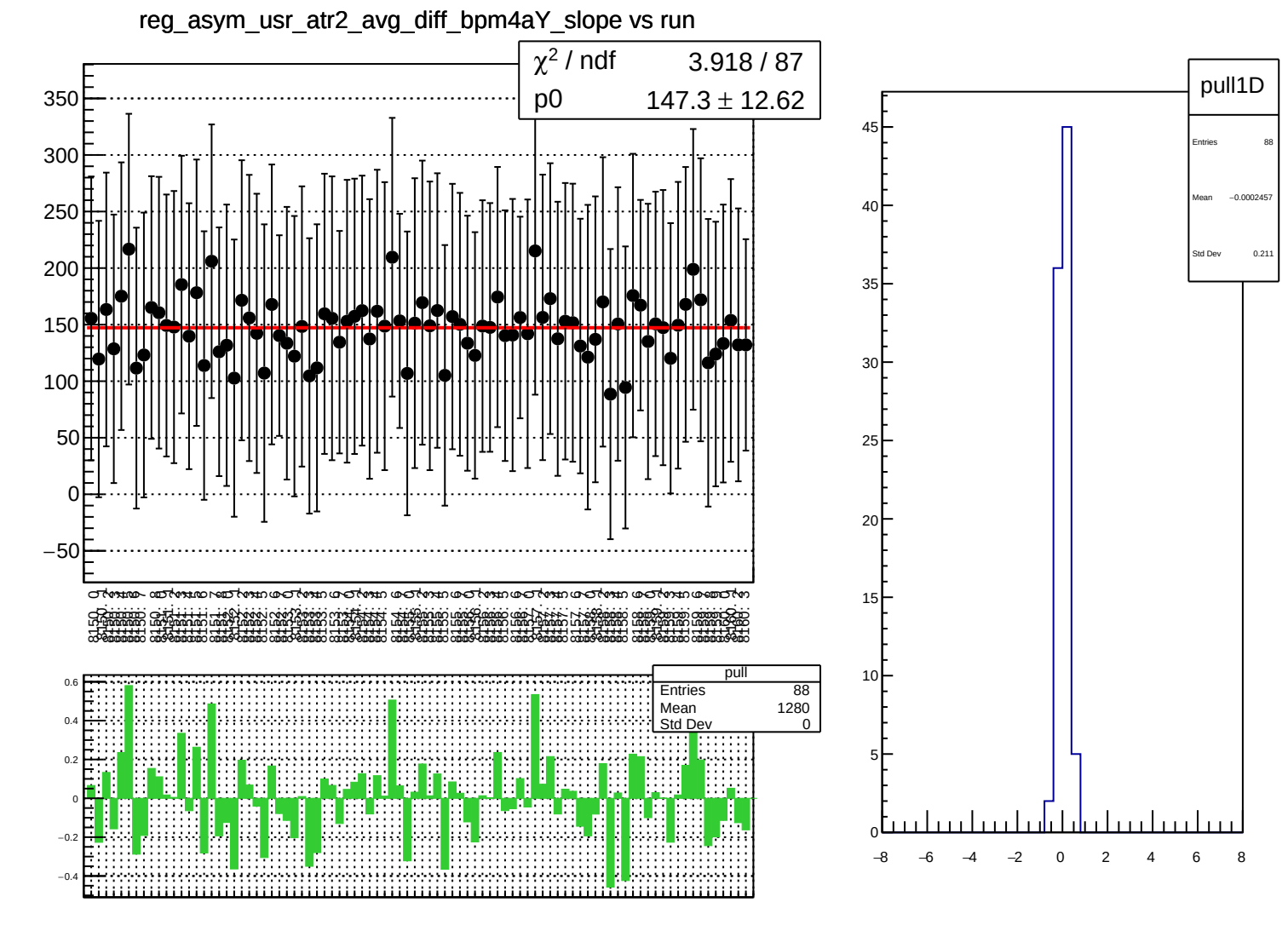

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.76 / 87
p0 −8.803 ± 2.422
pull
Entries 88
Mean 96.27
Std Dev 0
pull1D
Entries 88
Mean 0.01092
Std Dev 0.903

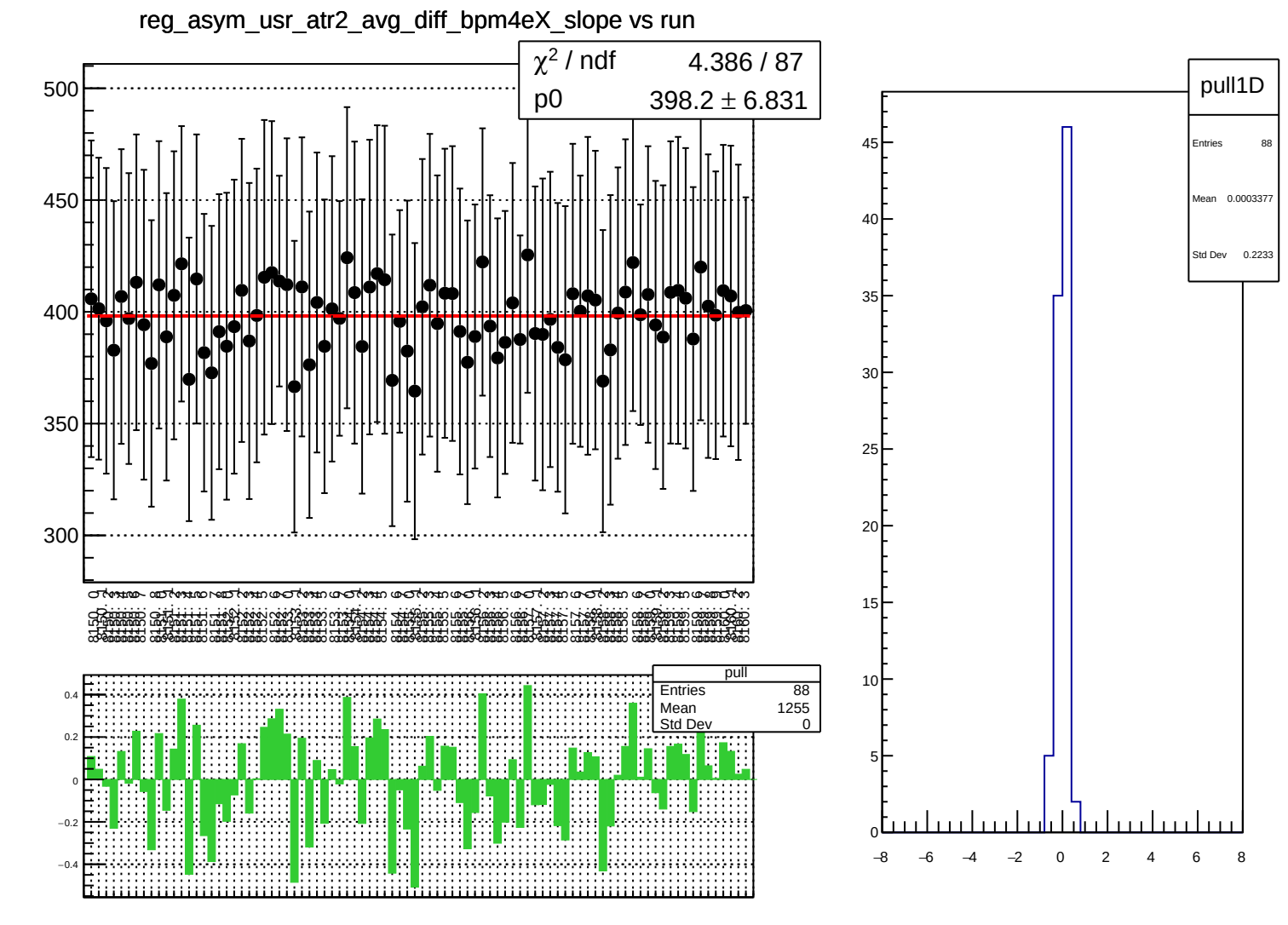

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 77 / 87
p0 18.17 ± 0.1135
pull
Entries 88
Mean −65.63
Std Dev 0

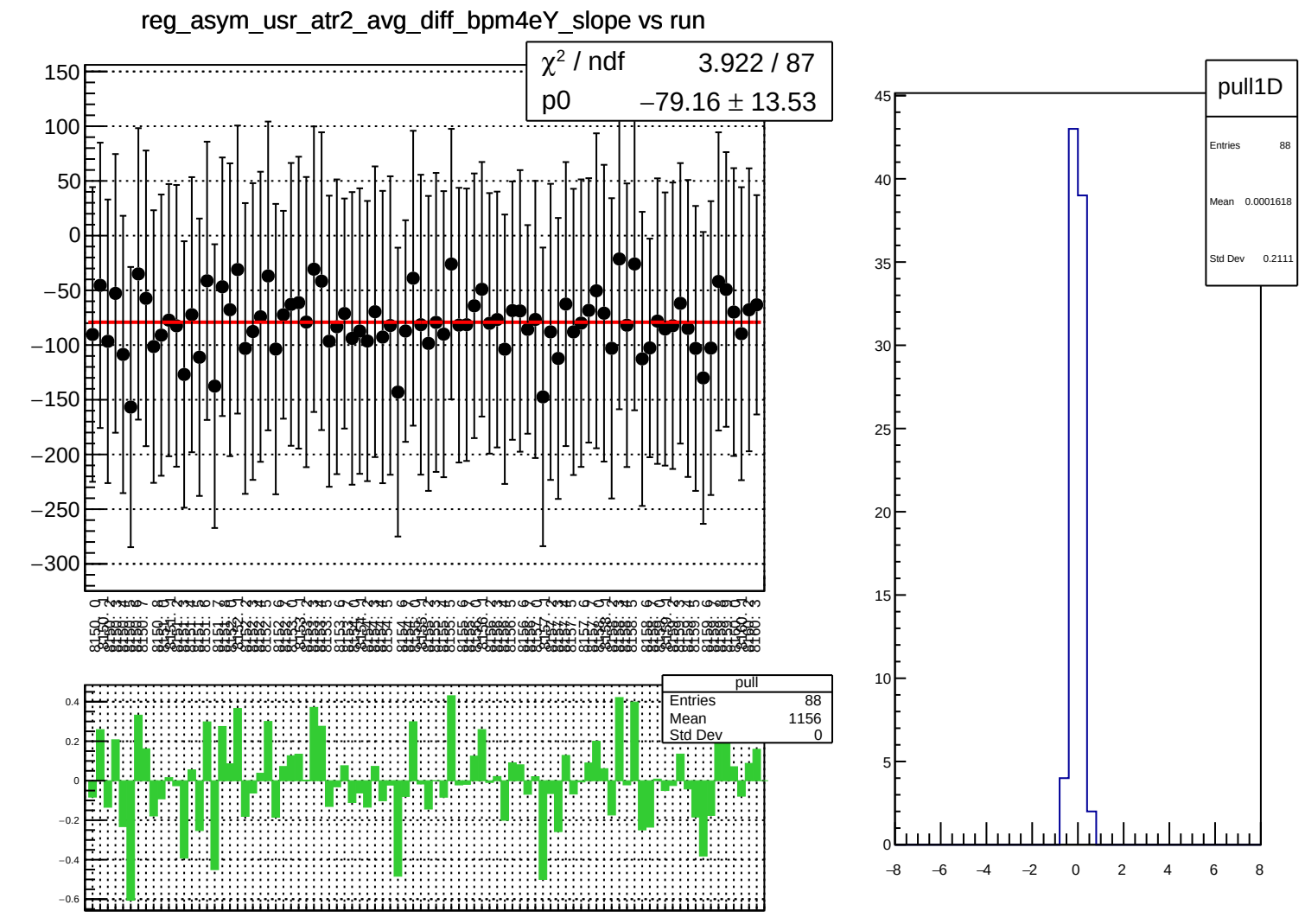

pull1D
Entries 88
Mean −0.01091
Std Dev 0.9353

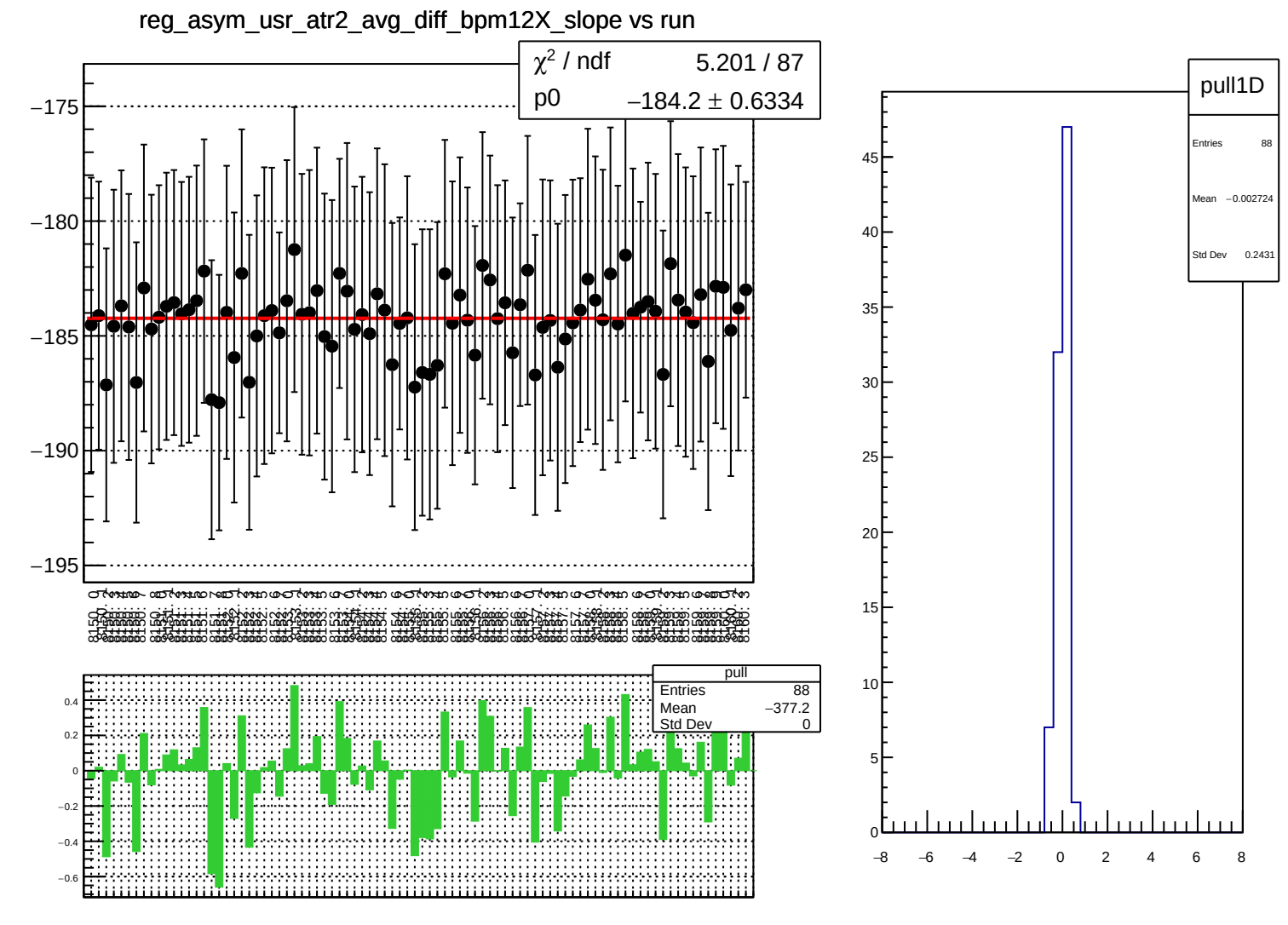

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.608 / 87
p0 −354.3 ± 6.74
−250
−300
−350
−400
−450
pull
Entries 88
Mean 183
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

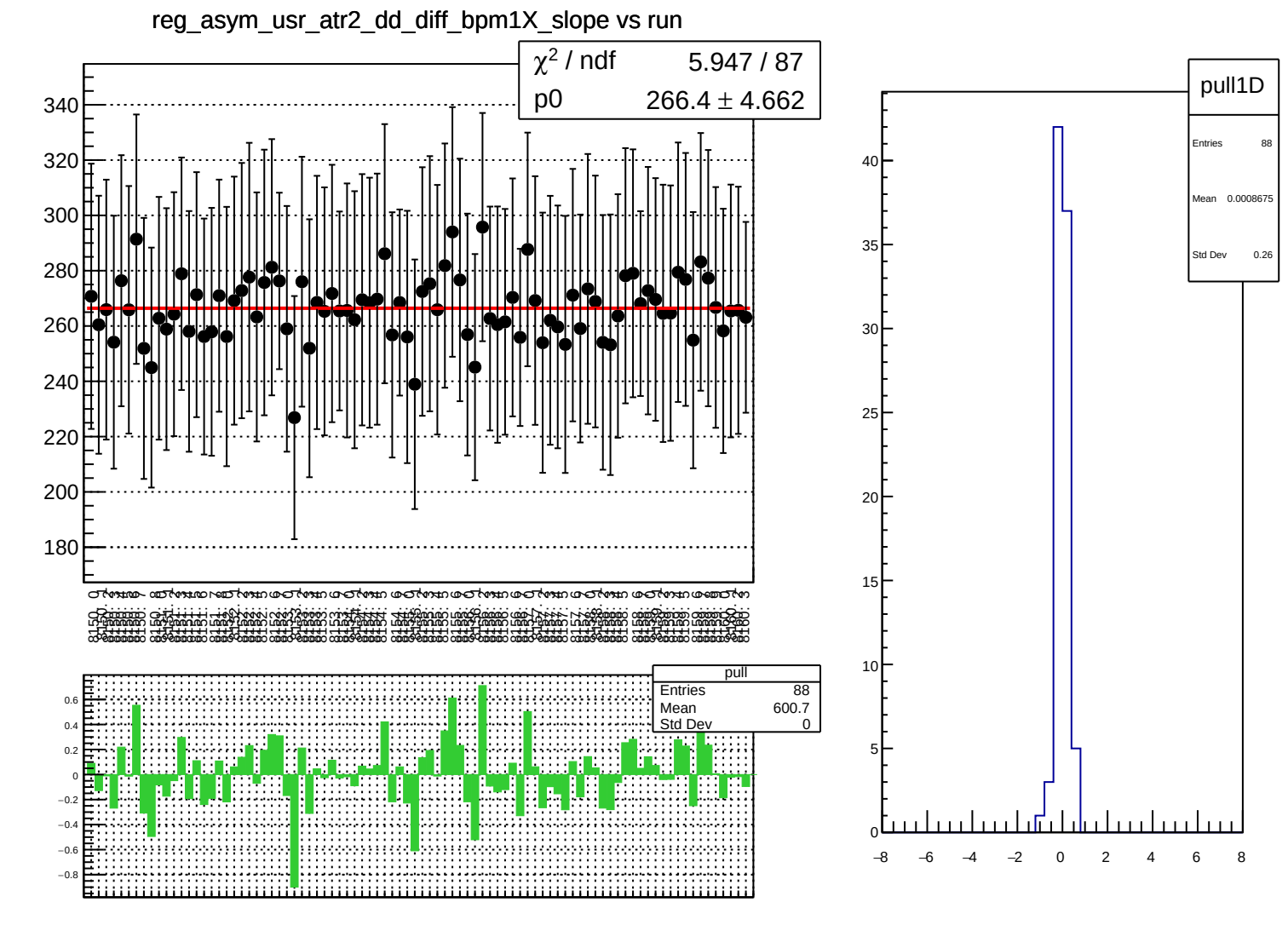

pull1D
Entries 88
Mean −0.00159
Std Dev 0.2288
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

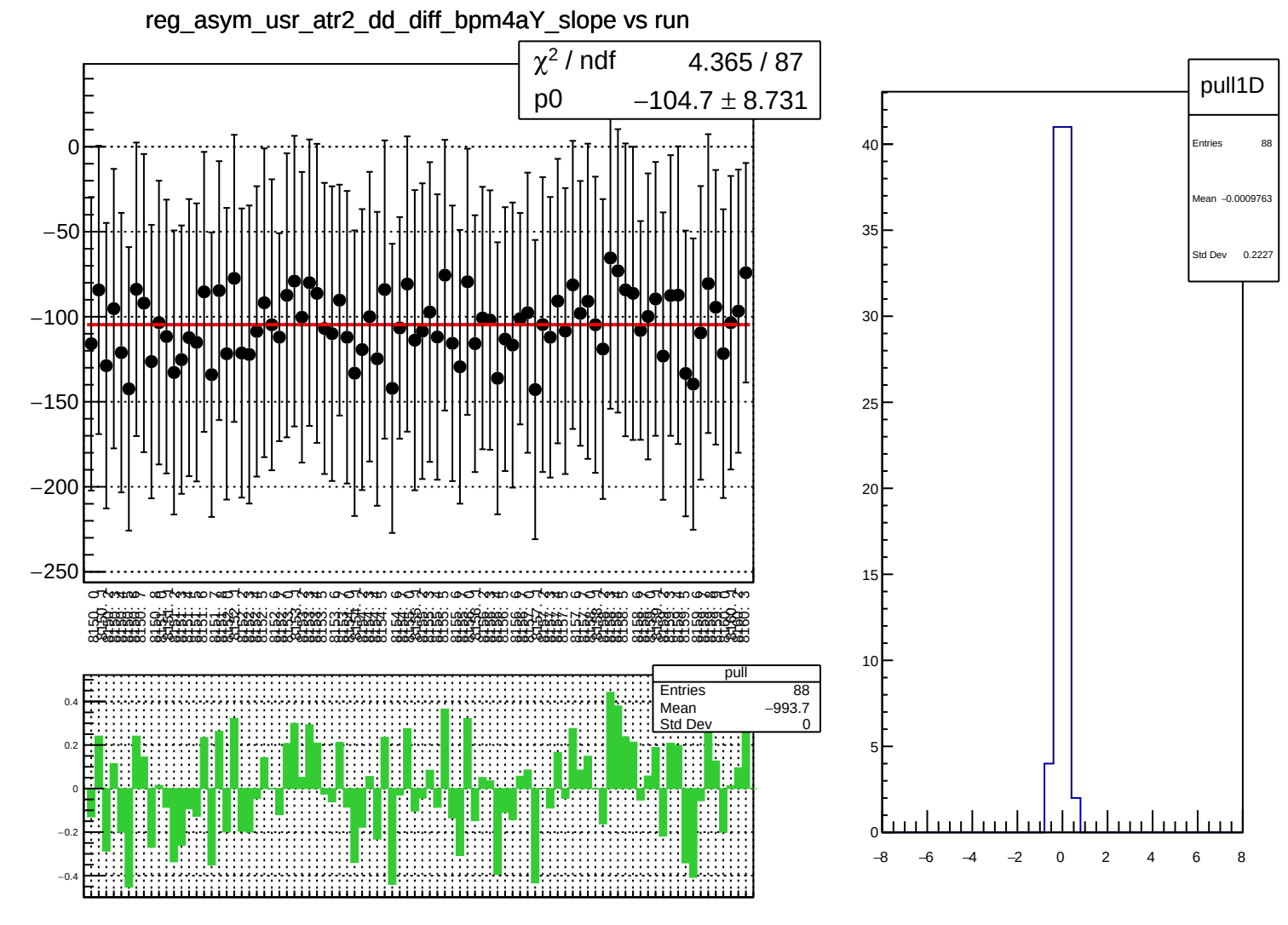

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.918 / 87
p0 147.3 ± 12.62
pull
Entries 88
Mean 1280
Std Dev 0
pull1D
Entries 88
Mean −0.0002457
Std Dev 0.211

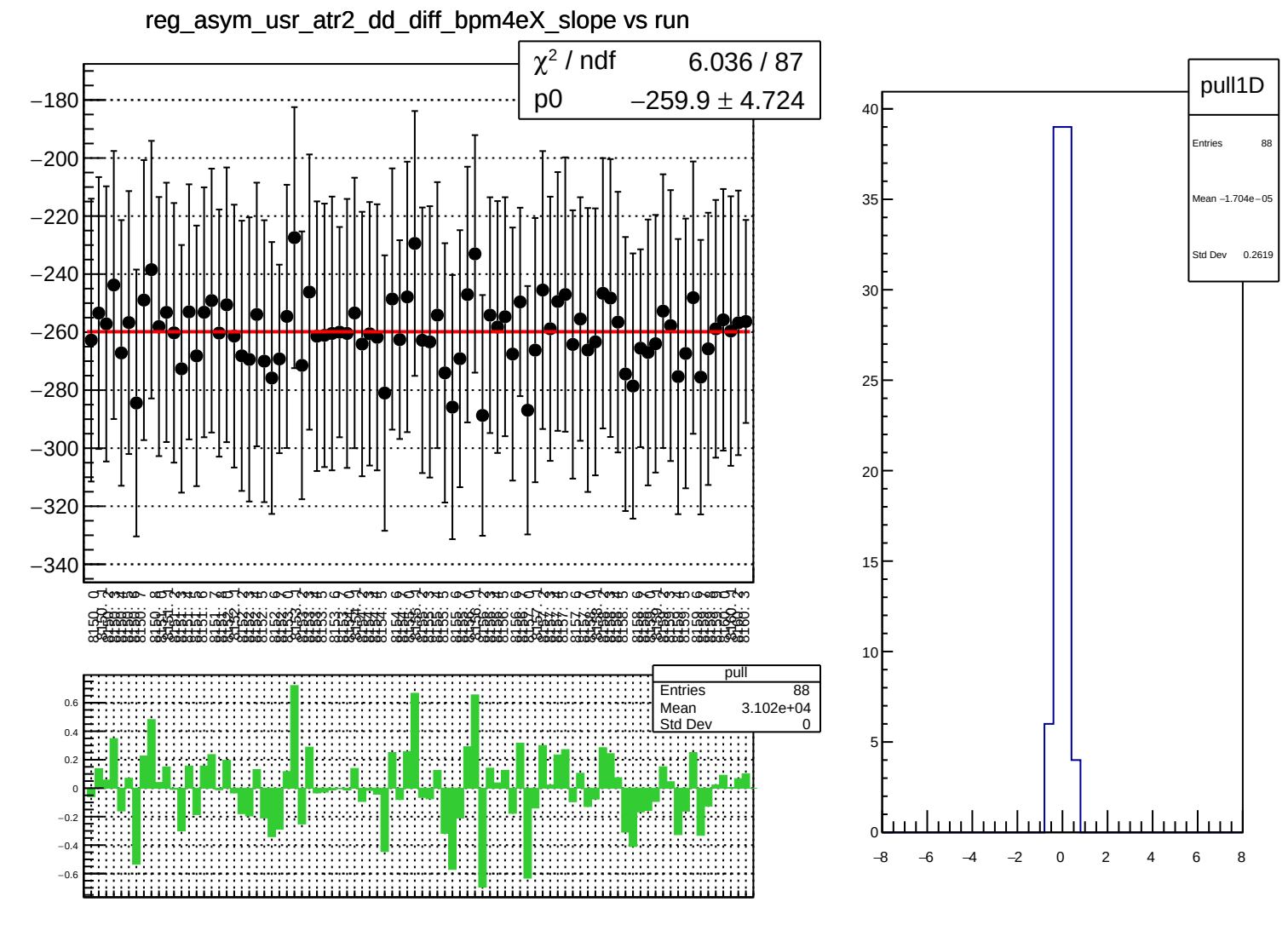

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.386 / 87
p0 398.2 ± 6.831
500
450
400
350
300
pull
Entries 88
Mean 1255
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean 0.0003377
Std Dev 0.2233
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

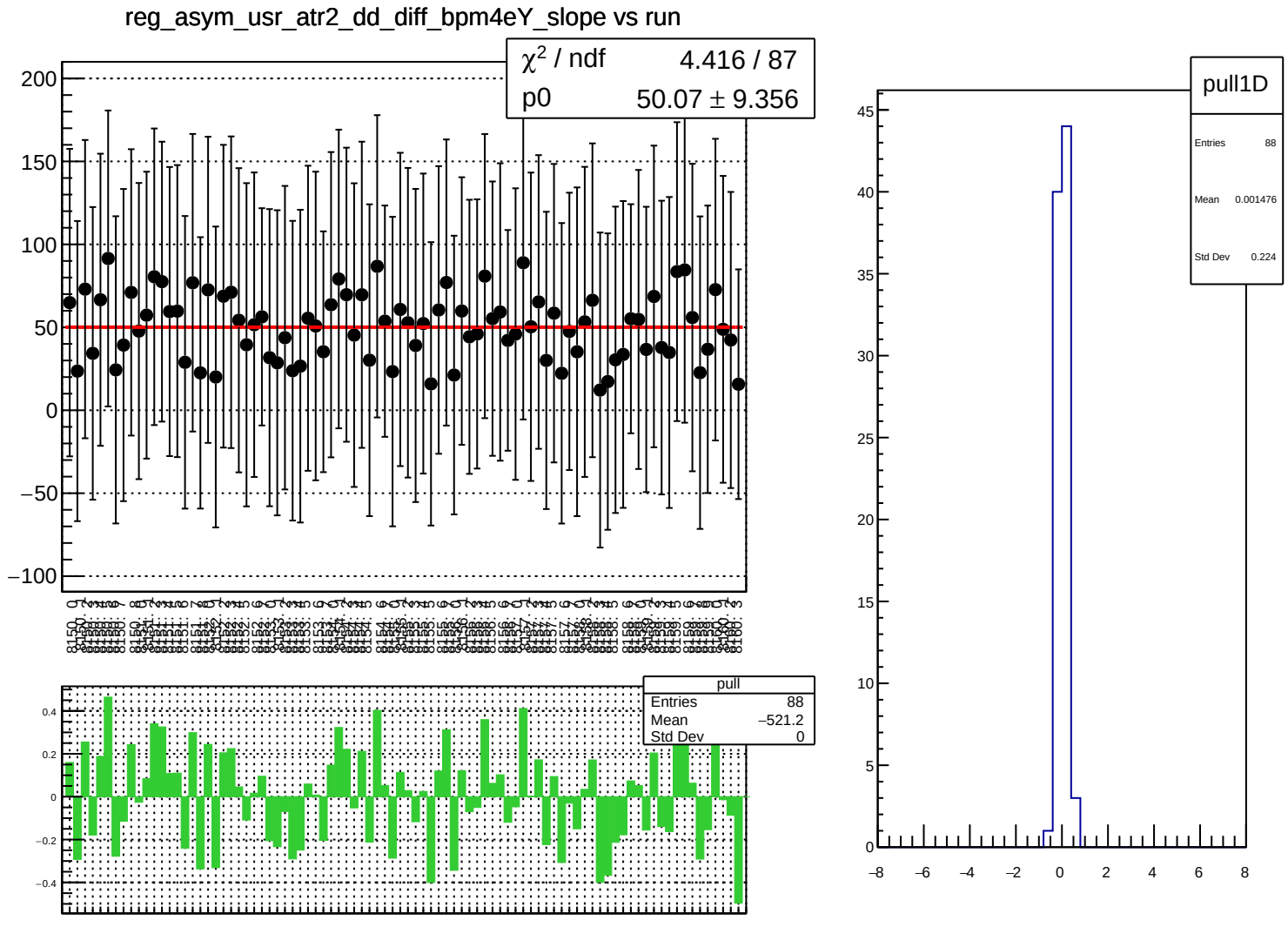

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.922 / 87
p0 −79.16 ± 13.53
pull
Entries 88
Mean 1156
Std Dev 0
pull1D
Entries 88
Mean 0.0001618
Std Dev 0.2111

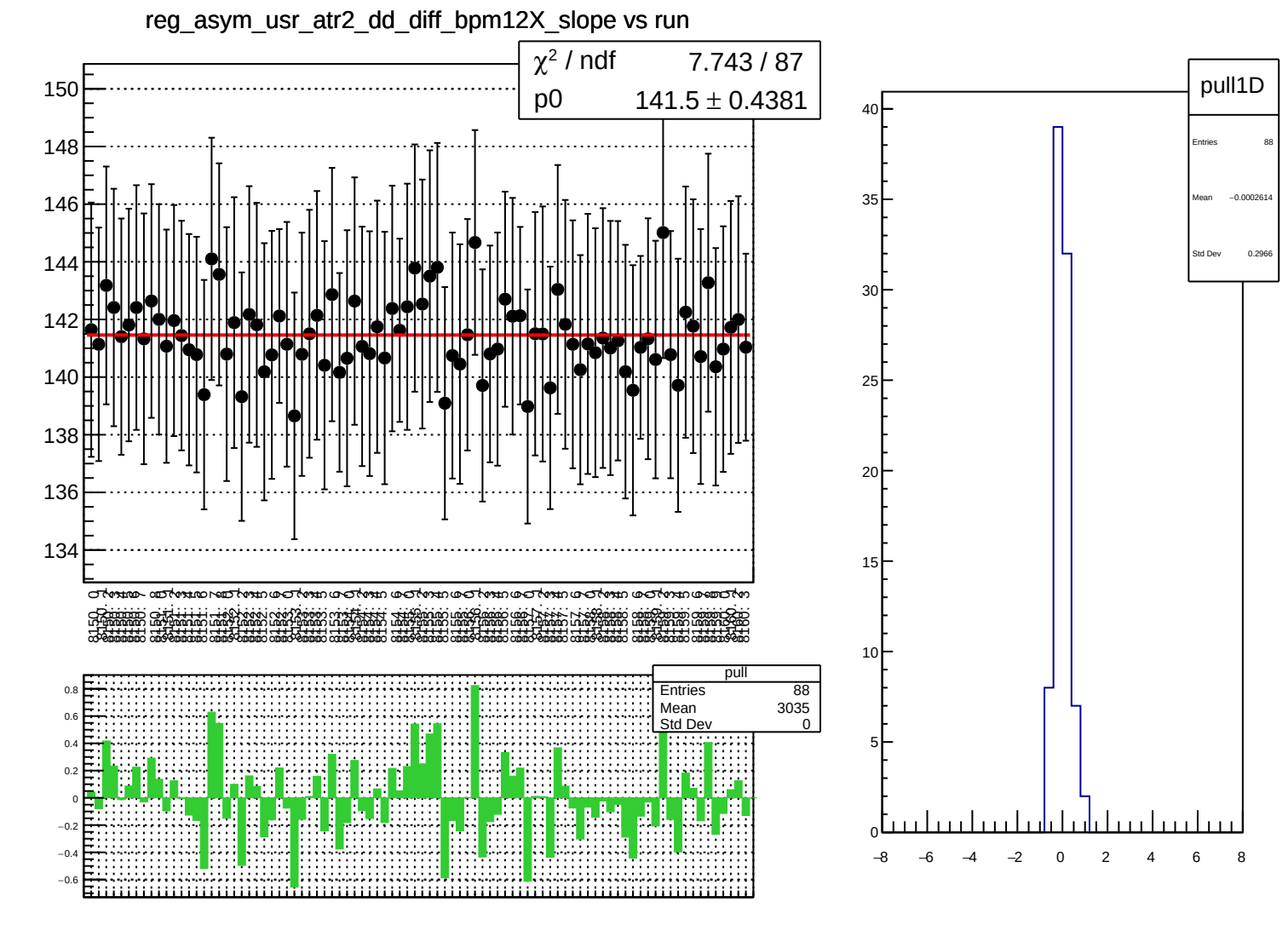

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 5.201 / 87
p0 −184.2 ± 0.6334
−175
−180
−185
−190
−195
pull
Entries 88
Mean −377.2
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.002724
Std Dev 0.2431
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

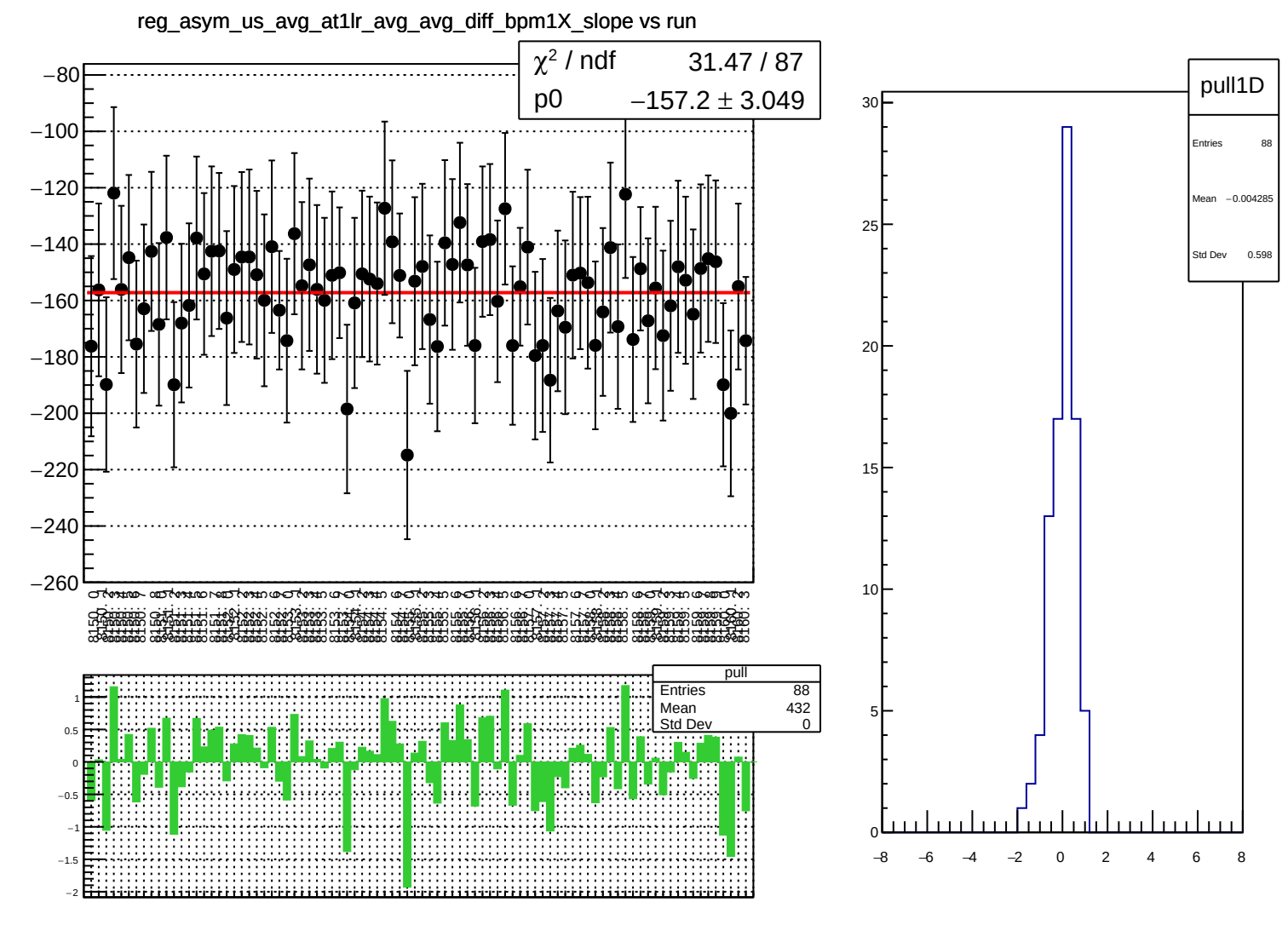

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.947 / 87
p0 266.4 ± 4.662
pull
Entries 88
Mean 600.7
Std Dev 0
pull1D
Entries 88
Mean 0.0008675
Std Dev 0.26

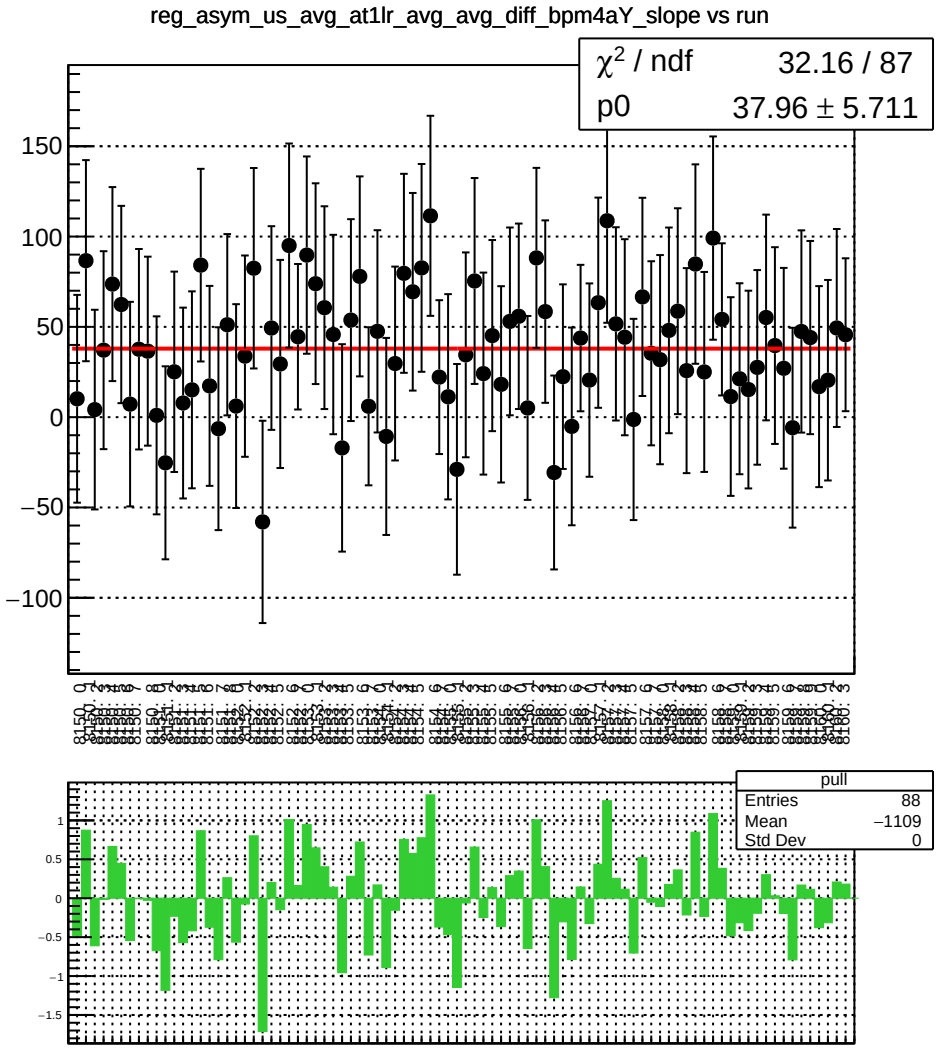

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.365 / 87
p0 −104.7 ± 8.731
pull
Entries 88
Mean −993.7
Std Dev 0
pull1D
Entries 88
Mean −0.0009763
Std Dev 0.2227

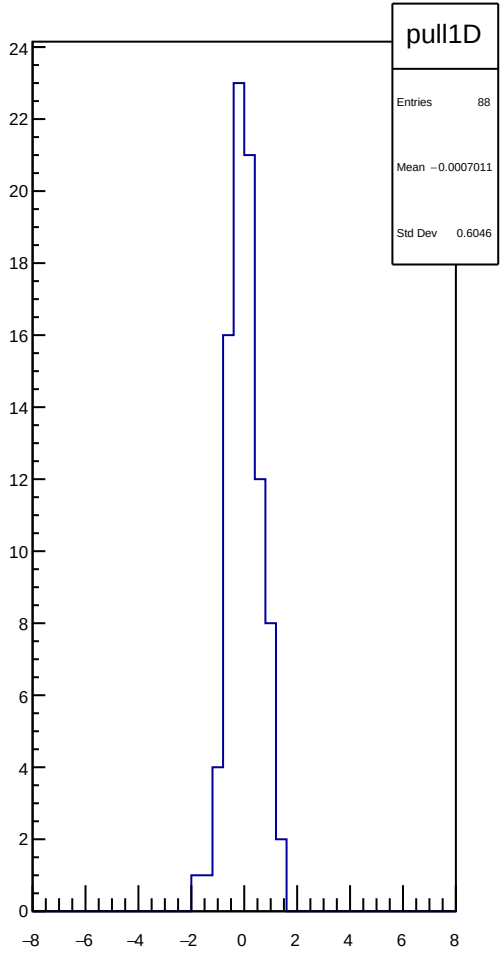

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.036 / 87
p0 −259.9 ± 4.724
pull
Entries 88
Mean 3.102e+04
Std Dev 0
pull1D
Entries 88
Mean −1.704e−05
Std Dev 0.2619

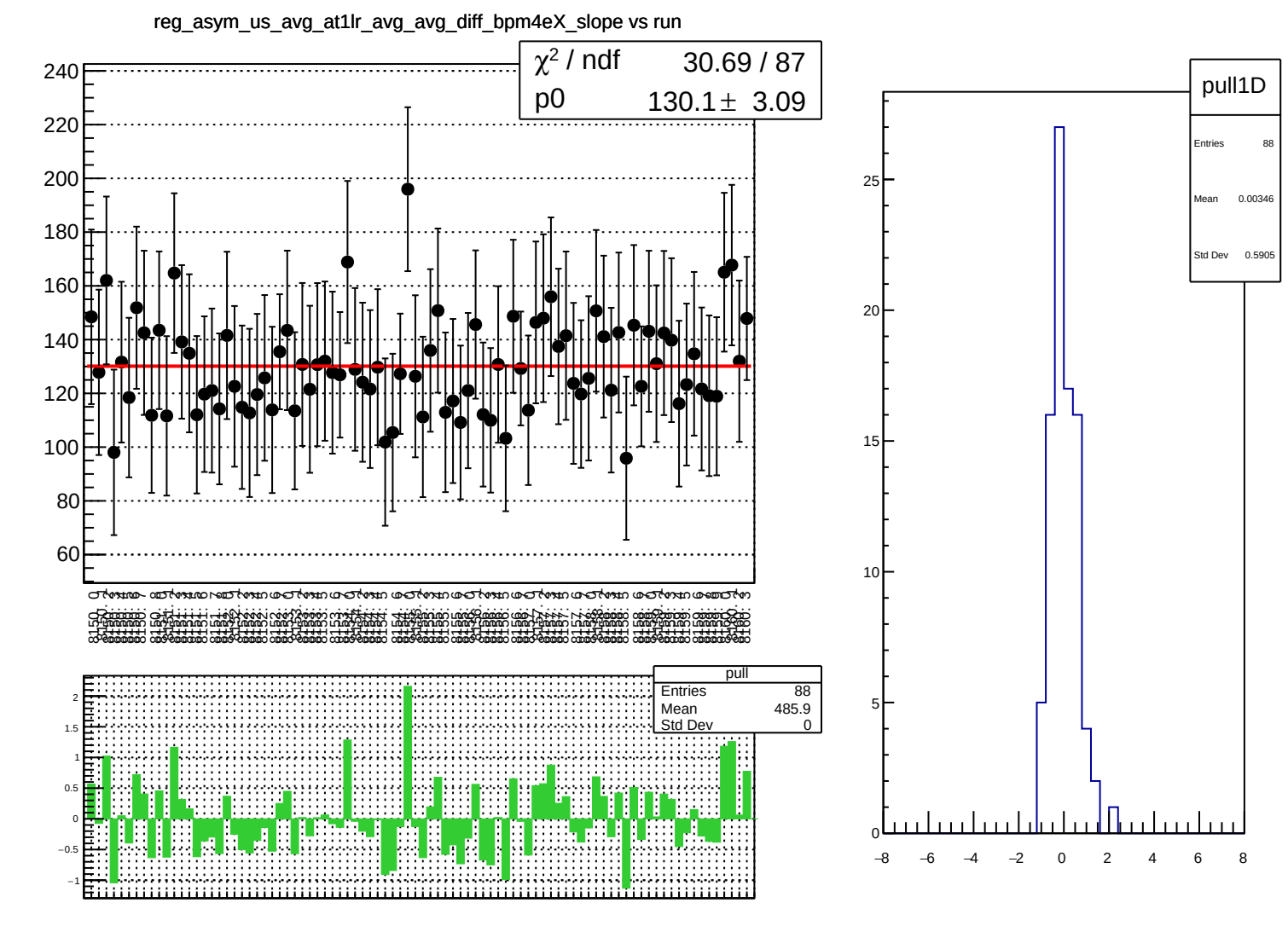

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.416 / 87
p0 50.07 ± 9.356
pull
Entries 88
Mean −521.2
Std Dev 0
pull1D
Entries 88
Mean 0.001476
Std Dev 0.224

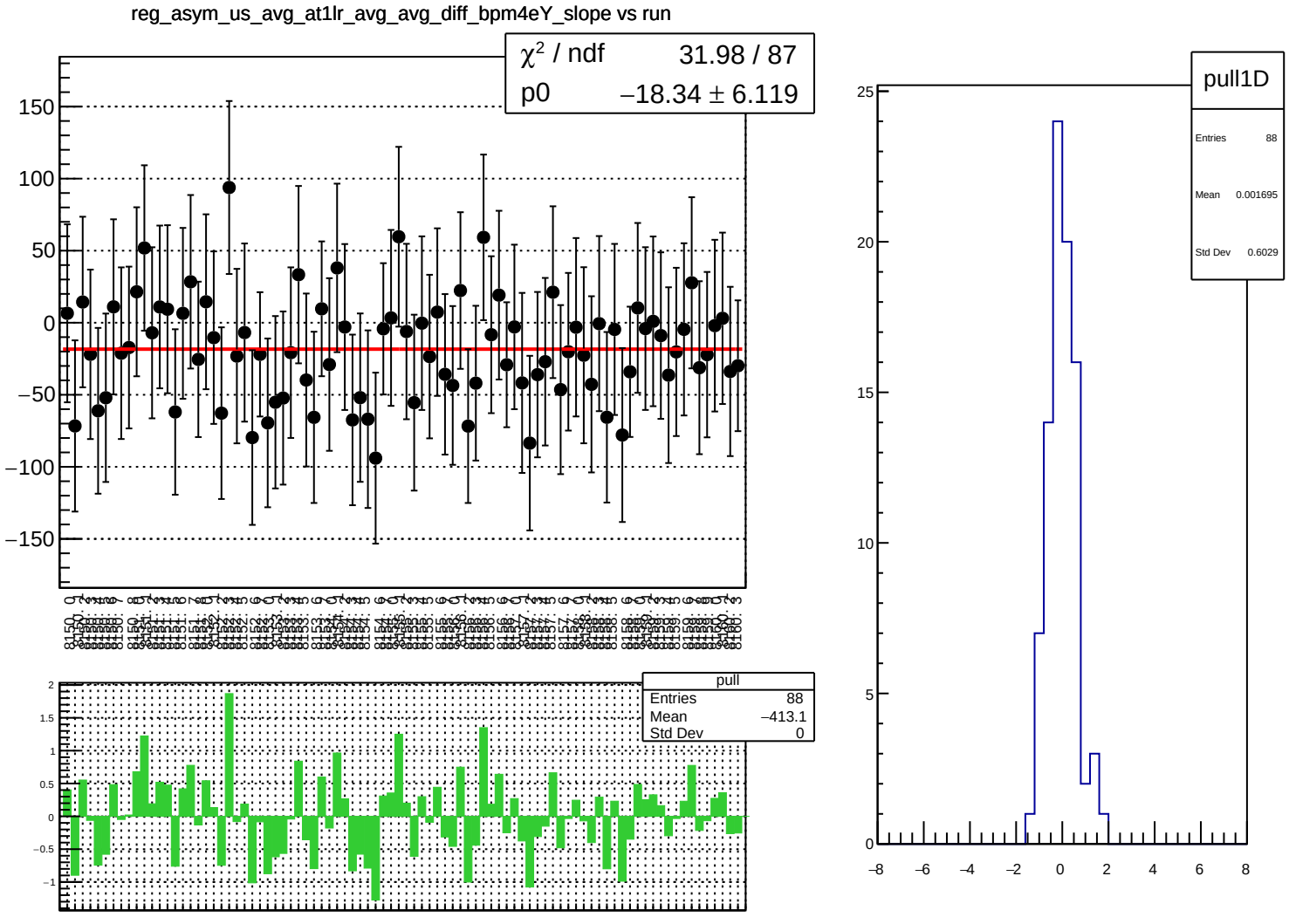

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 7.743 / 87
p0 141.5 ± 0.4381
150
148
146
144
142
140
138
136
134
pull
Entries 88
Mean 3035
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.0002614
Std Dev 0.2966
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

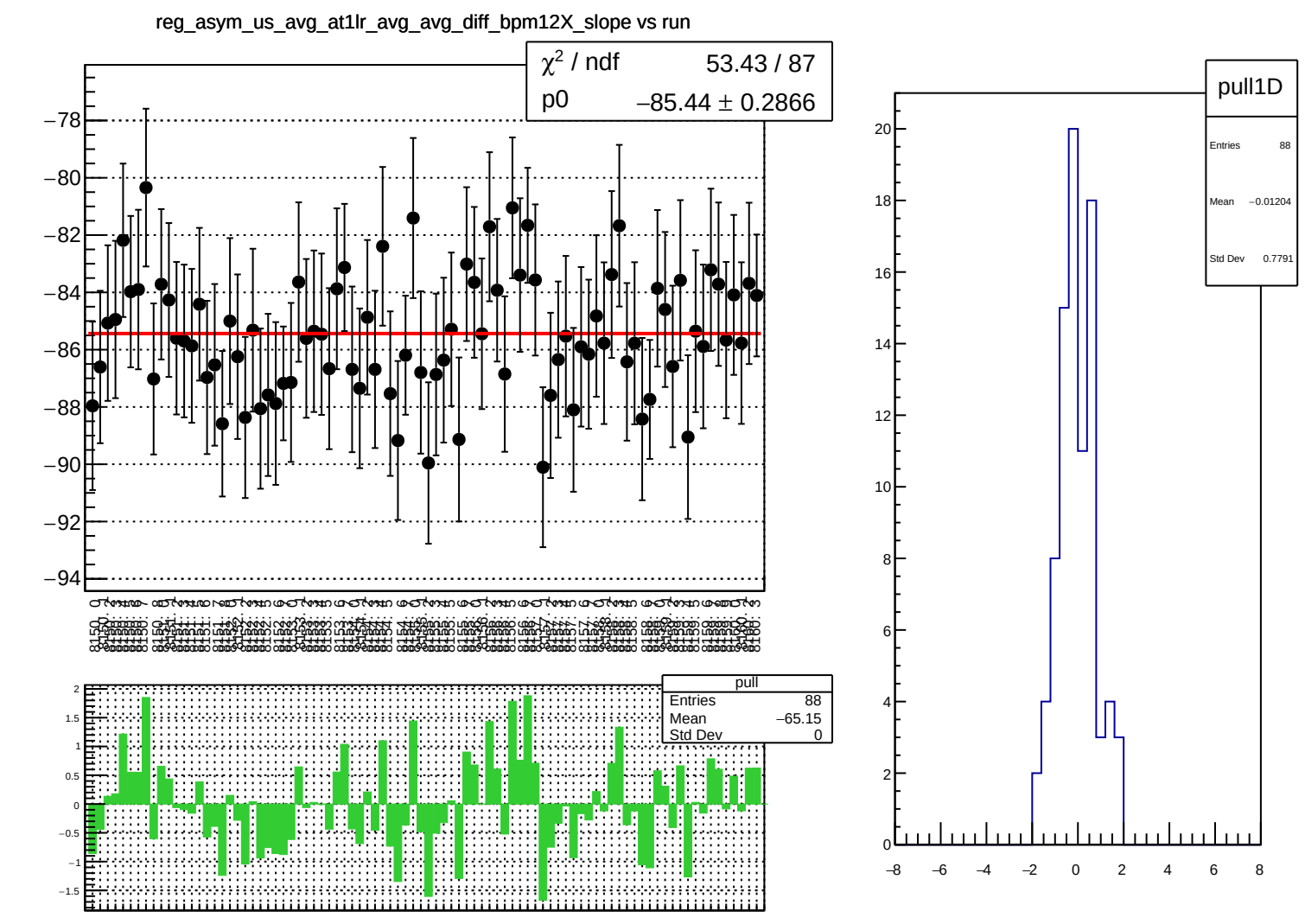

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 31.47 / 87
p0 −157.2 ± 3.049
pull
Entries 88
Mean 432
Std Dev 0
pull1D
Entries 88
Mean −0.004285
Std Dev 0.598

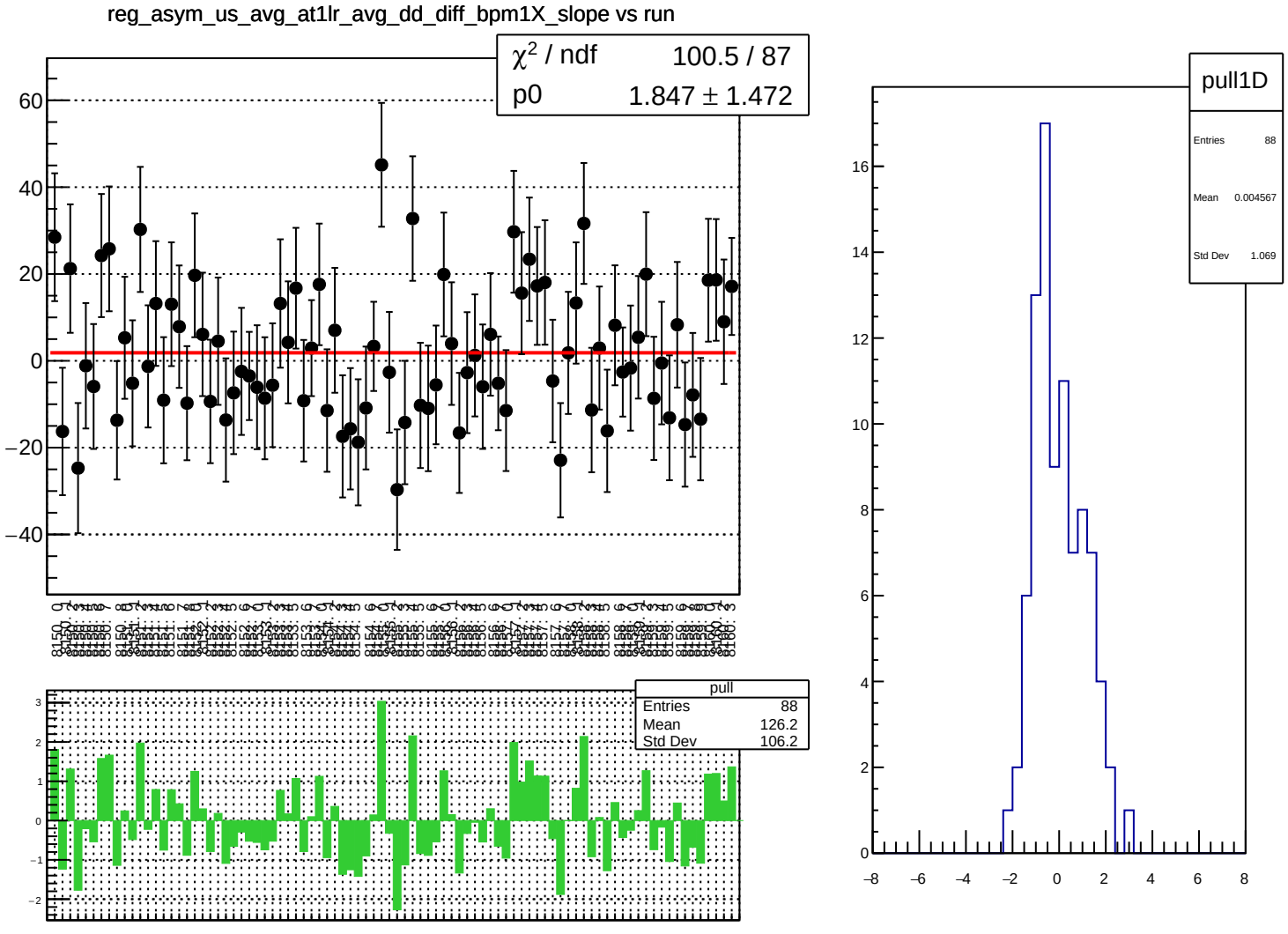

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.16 / 87
p0 37.96 ± 5.711
150
100
50
0
−50
−100
pull
Entries 88
Mean −1109
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

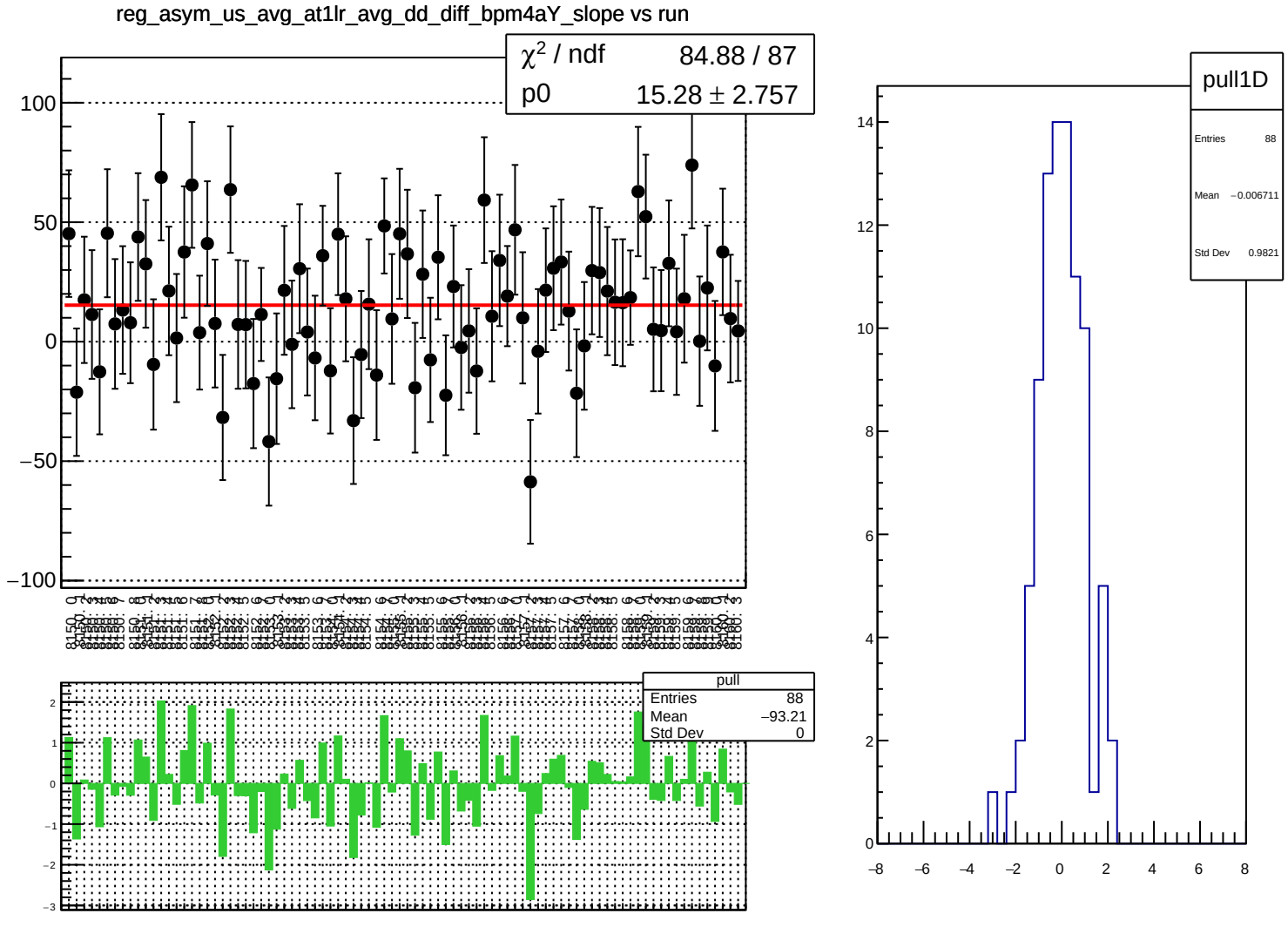

pull1D
Entries 88
Mean −0.0007011
Std Dev 0.6046
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

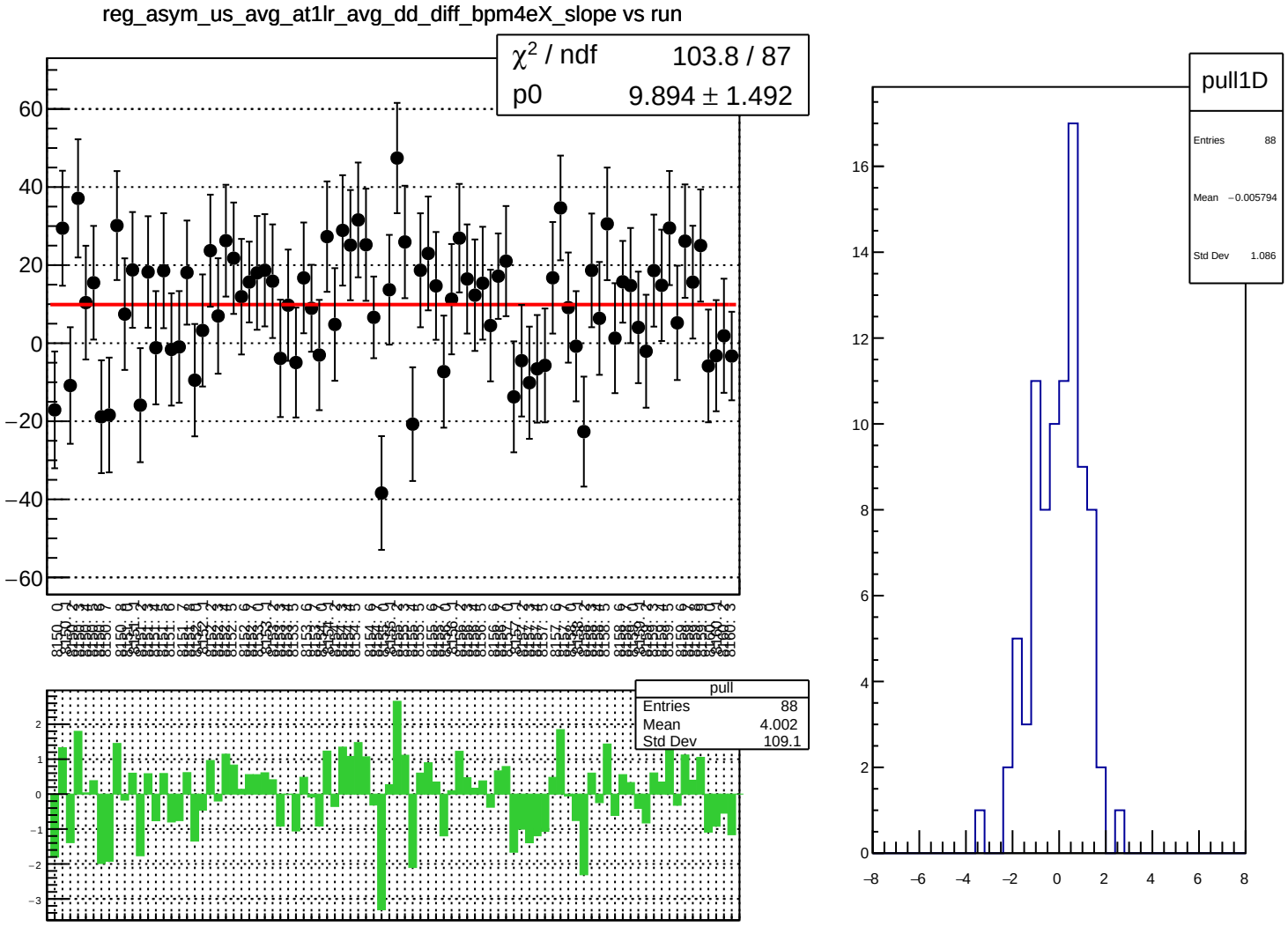

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.69 / 87
p0 130.1 ± 3.09
pull
Entries 88
Mean 485.9
Std Dev 0
pull1D
Entries 88
Mean 0.00346
Std Dev 0.5905

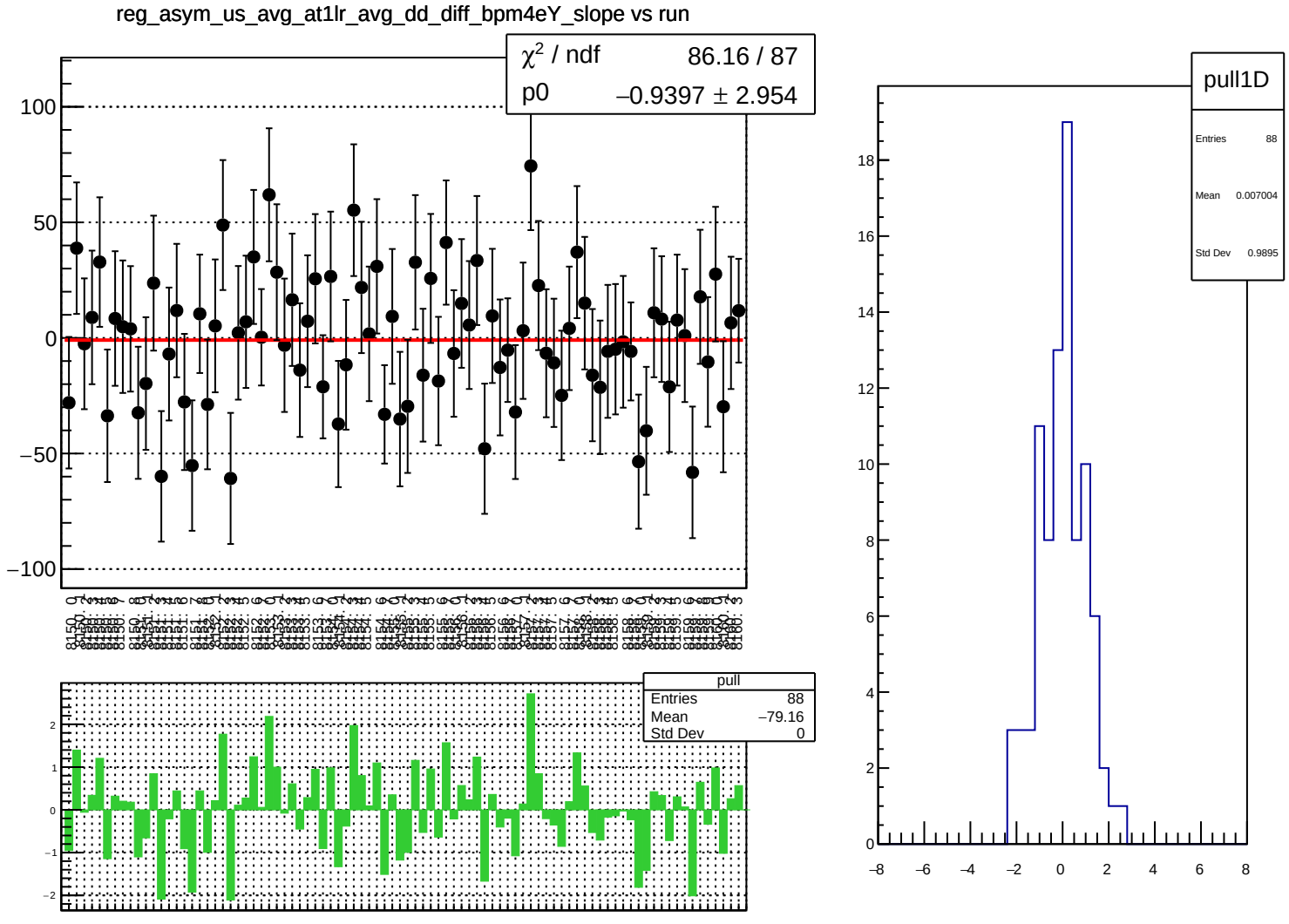

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.98 / 87
p0 −18.34 ± 6.119
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −413.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.001695
Std Dev 0.6029
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

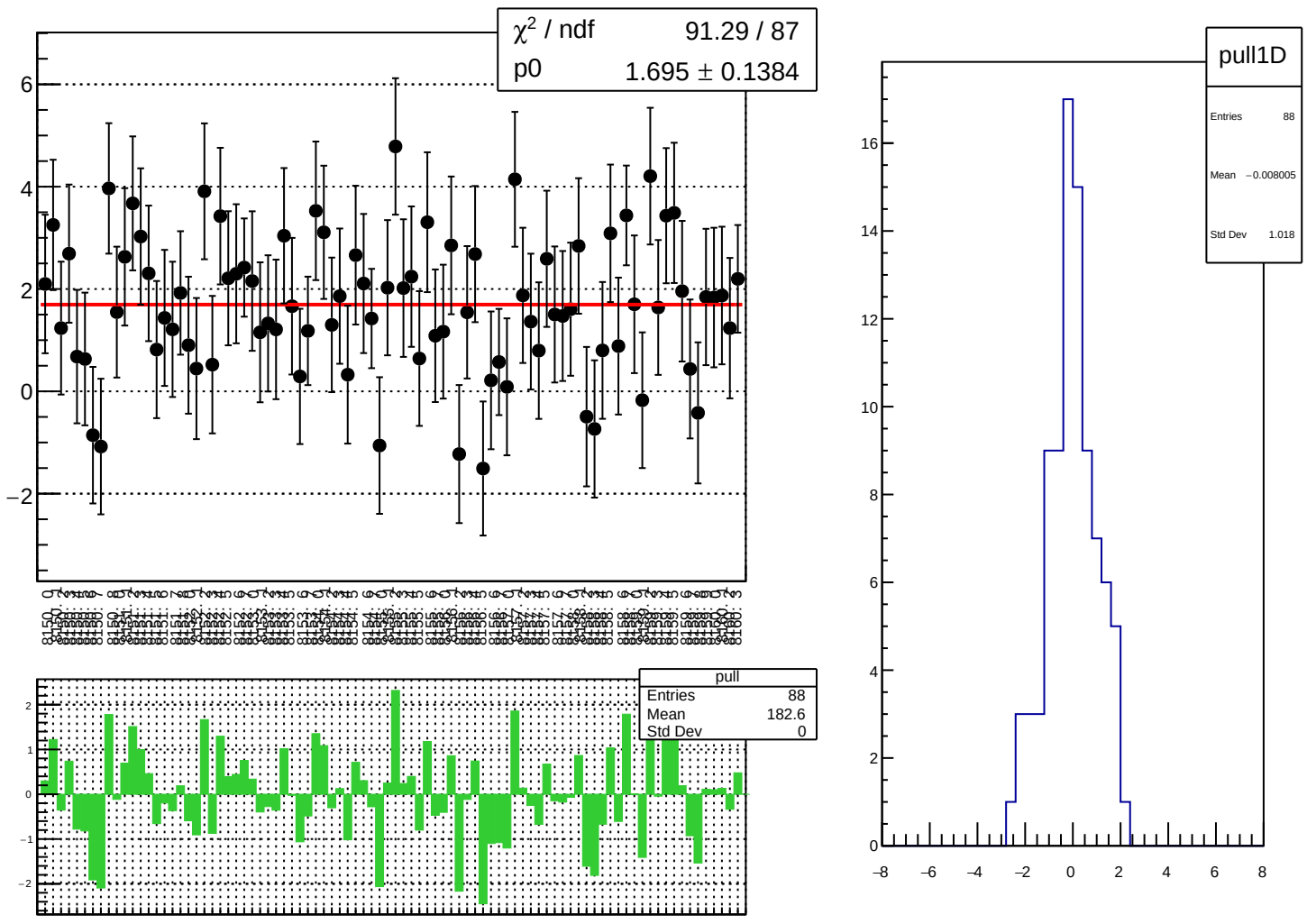

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 53.43 / 87
p0 −85.44 ± 0.2866
pull
Entries 88
Mean −65.15
Std Dev 0
pull1D
Entries 88
Mean −0.01204
Std Dev 0.7791

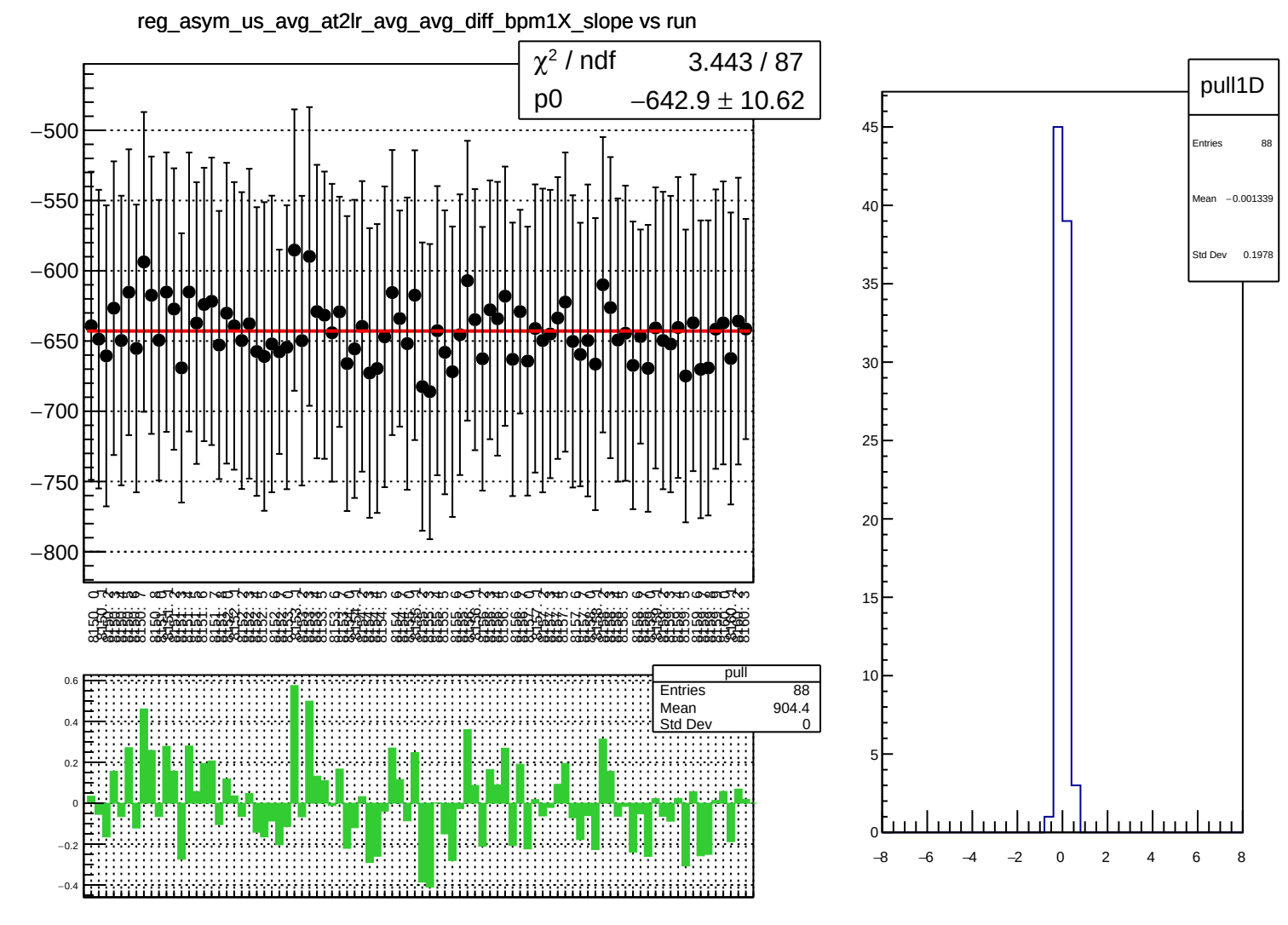

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 100.5 / 87
p0 1.847 ± 1.472
pull
Entries 88
Mean 126.2
Std Dev 106.2
pull1D
Entries 88
Mean 0.004567
Std Dev 1.069

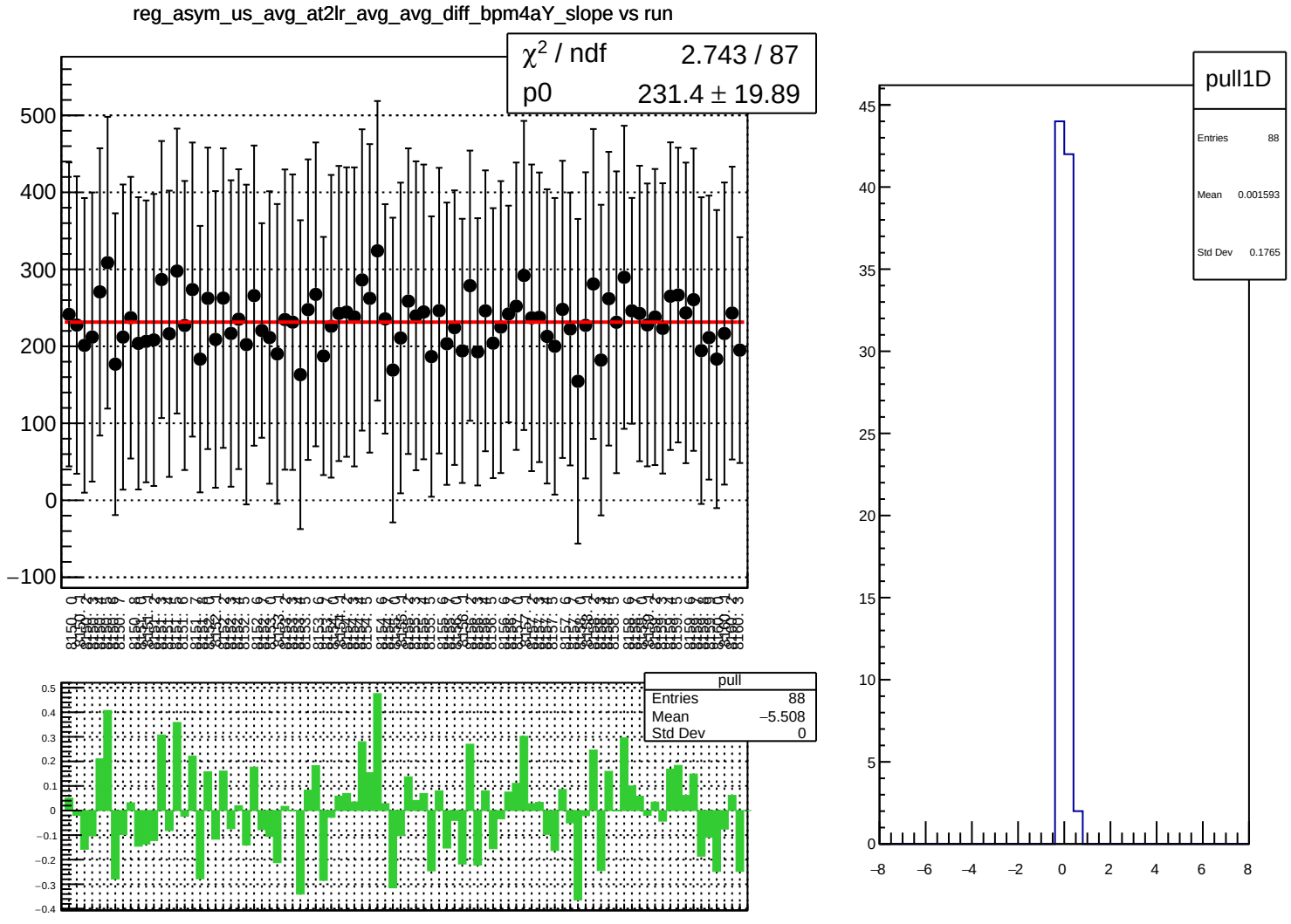

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.88 / 87
p0 15.28 ± 2.757
pull
Entries 88
Mean −93.21
Std Dev 0
pull1D
Entries 88
Mean −0.006711
Std Dev 0.9821

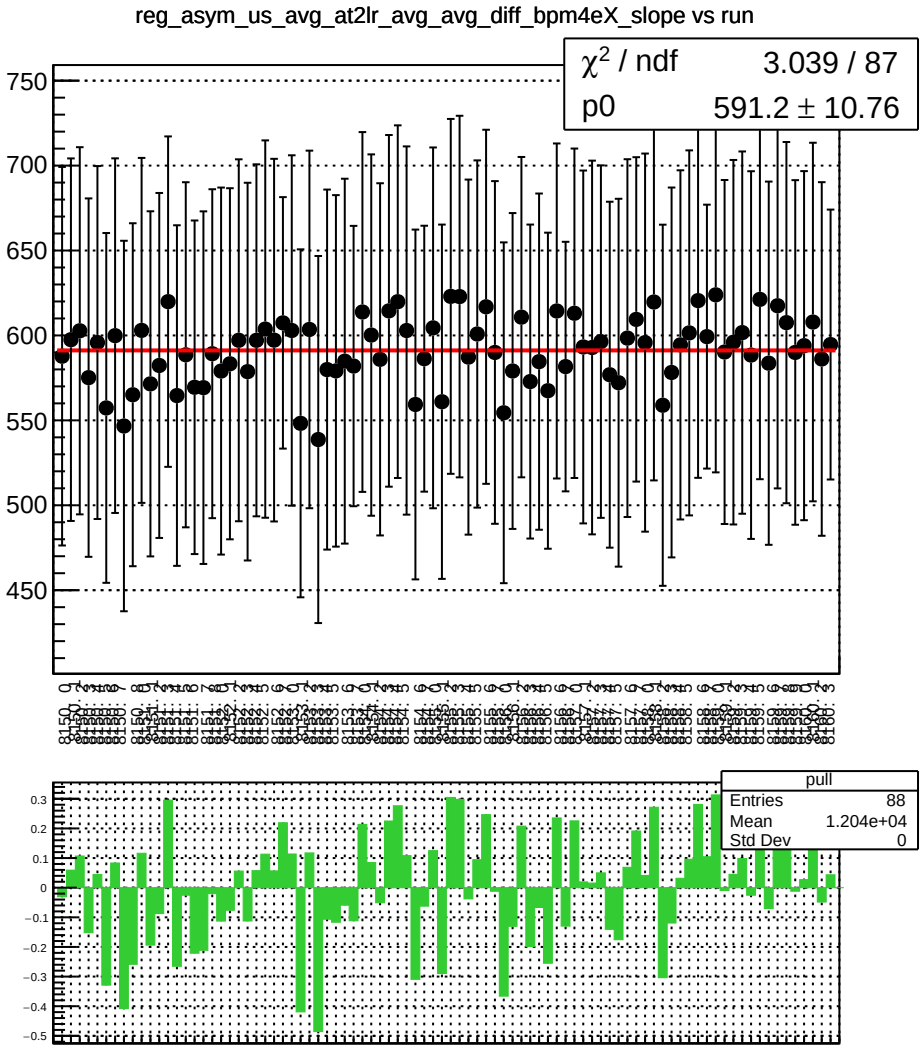

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 103.8 / 87
p0 9.894 ± 1.492
pull
Entries 88
Mean 4.002
Std Dev 109.1
pull1D
Entries 88
Mean −0.005794
Std Dev 1.086

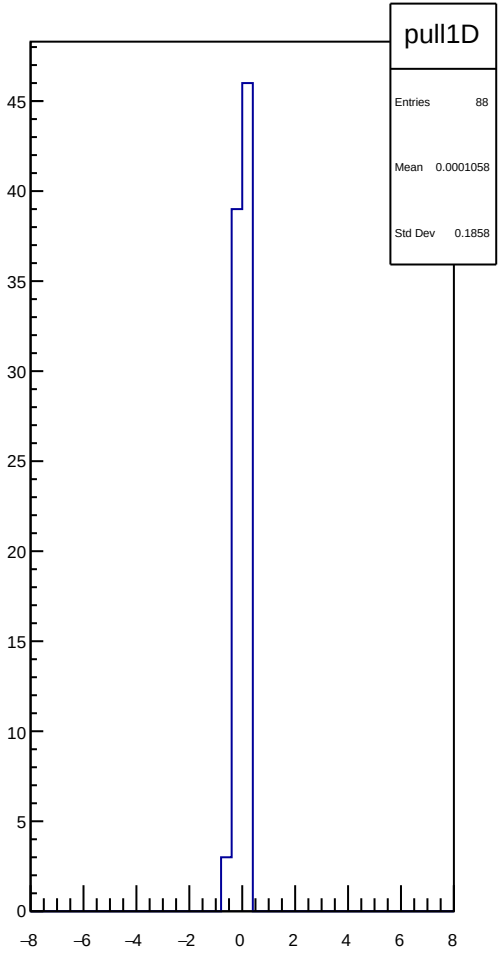

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 86.16 / 87
p0 −0.9397 ± 2.954
100
50
0
−50
−100
pull
Entries 88
Mean −79.16
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.007004
Std Dev 0.9895
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

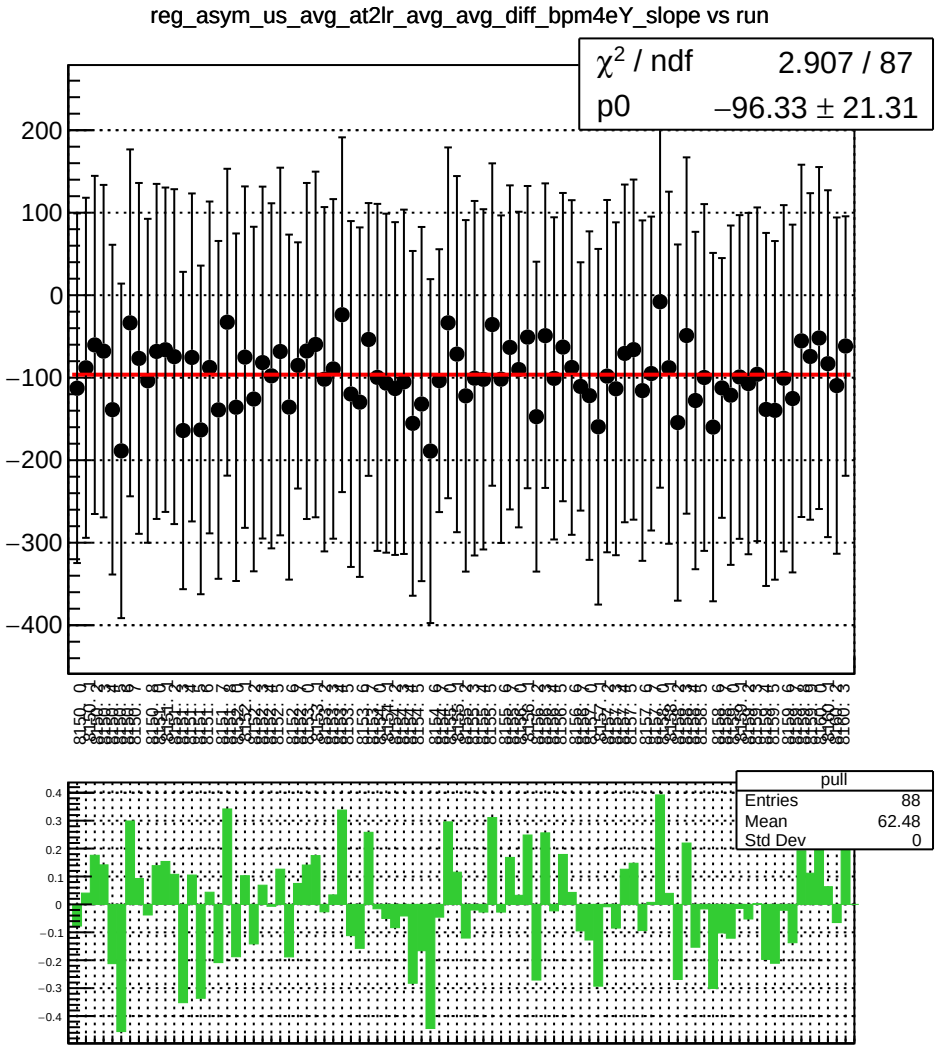

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 91.29 / 87
p0 1.695 ± 0.1384
pull
Entries 88
Mean 182.6
Std Dev 0
pull1D
Entries 88
Mean −0.008005
Std Dev 1.018

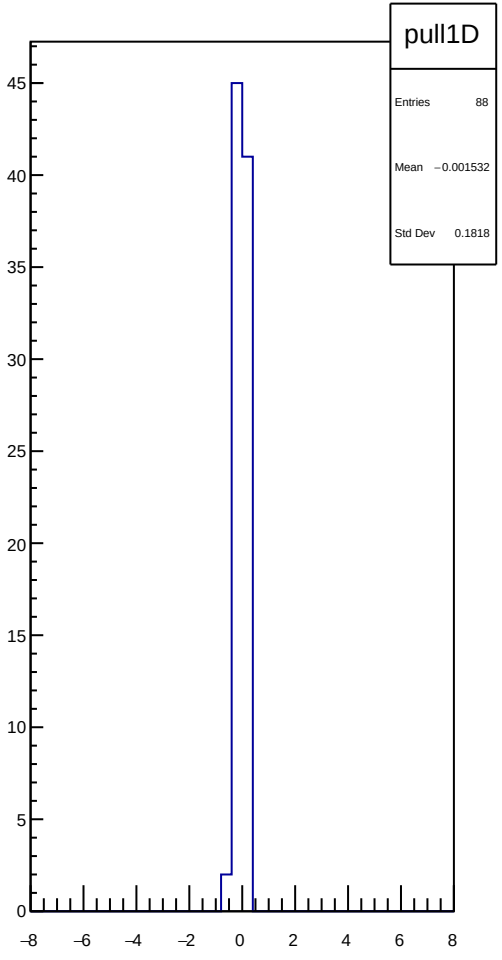

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 3.443 / 87
p0 −642.9 ± 10.62
pull
Entries 88
Mean 904.4
Std Dev 0
pull1D
Entries 88
Mean −0.001339
Std Dev 0.1978

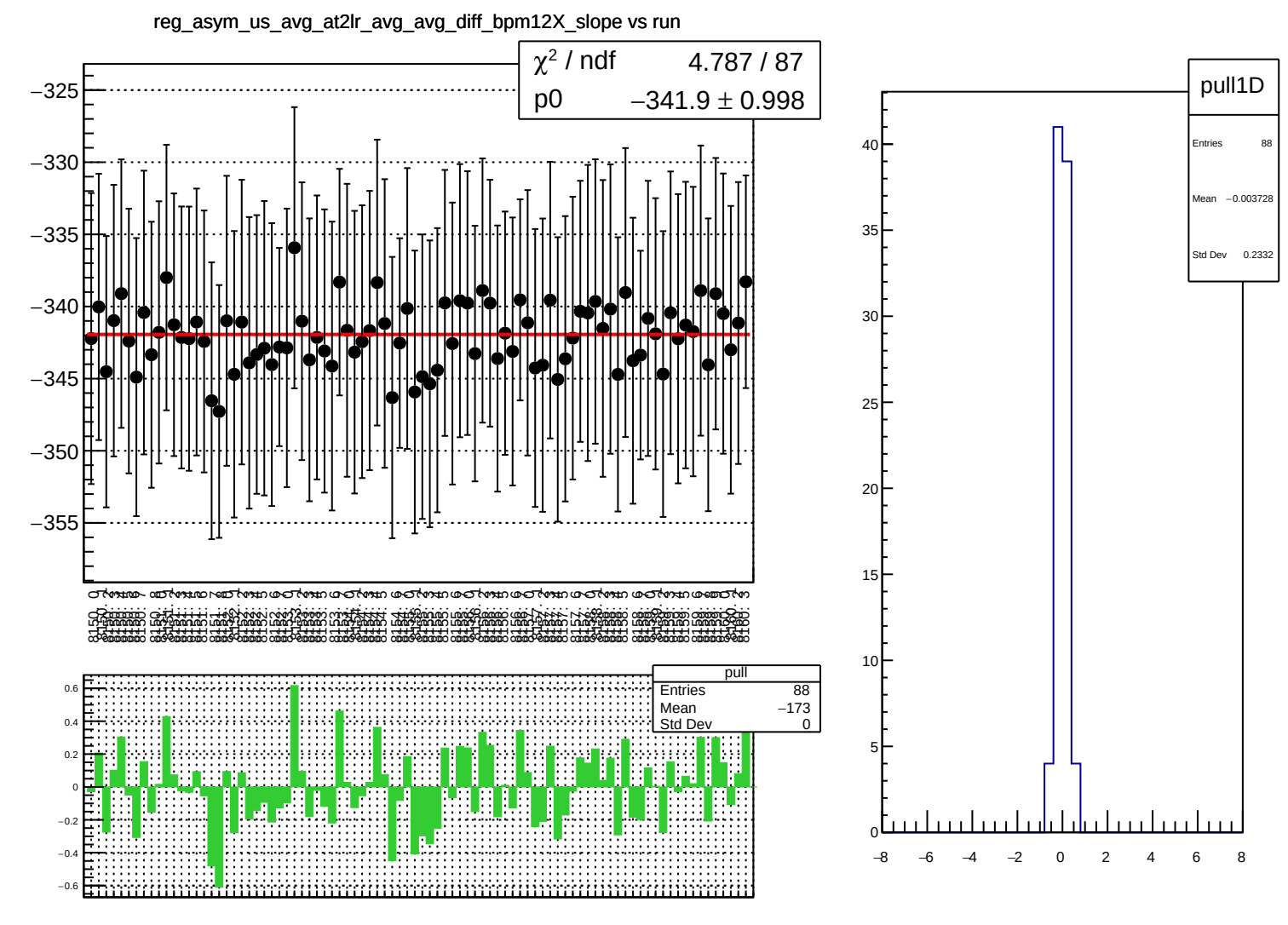

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.743 / 87
p0 231.4 ± 19.89
pull
Entries 88
Mean −5.508
Std Dev 0
pull1D
Entries 88
Mean 0.001593
Std Dev 0.1765

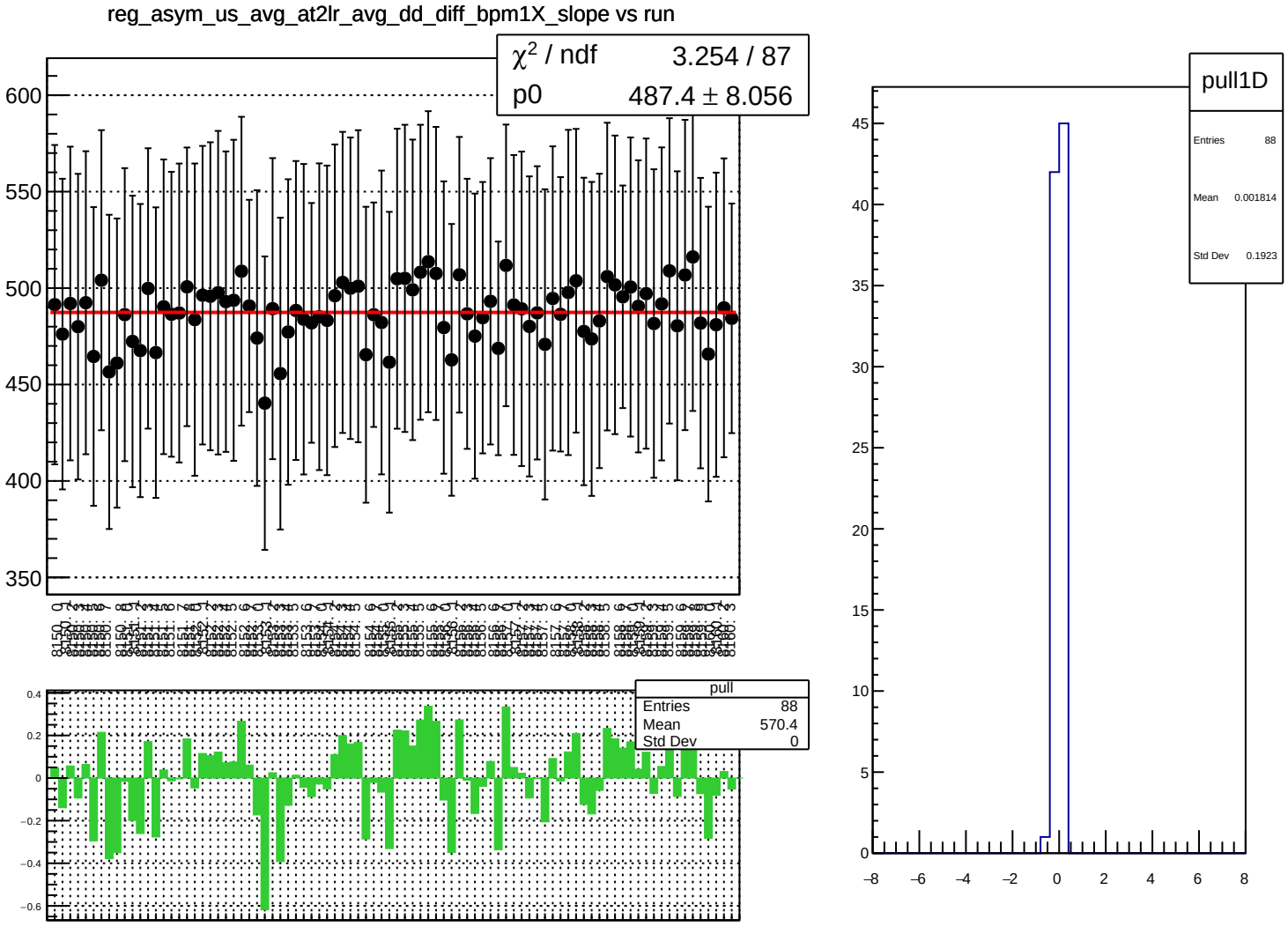

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.039 / 87
p0 591.2 ± 10.76
750
700
650
600
550
500
450
pull
Entries 88
Mean 1.204e+04
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

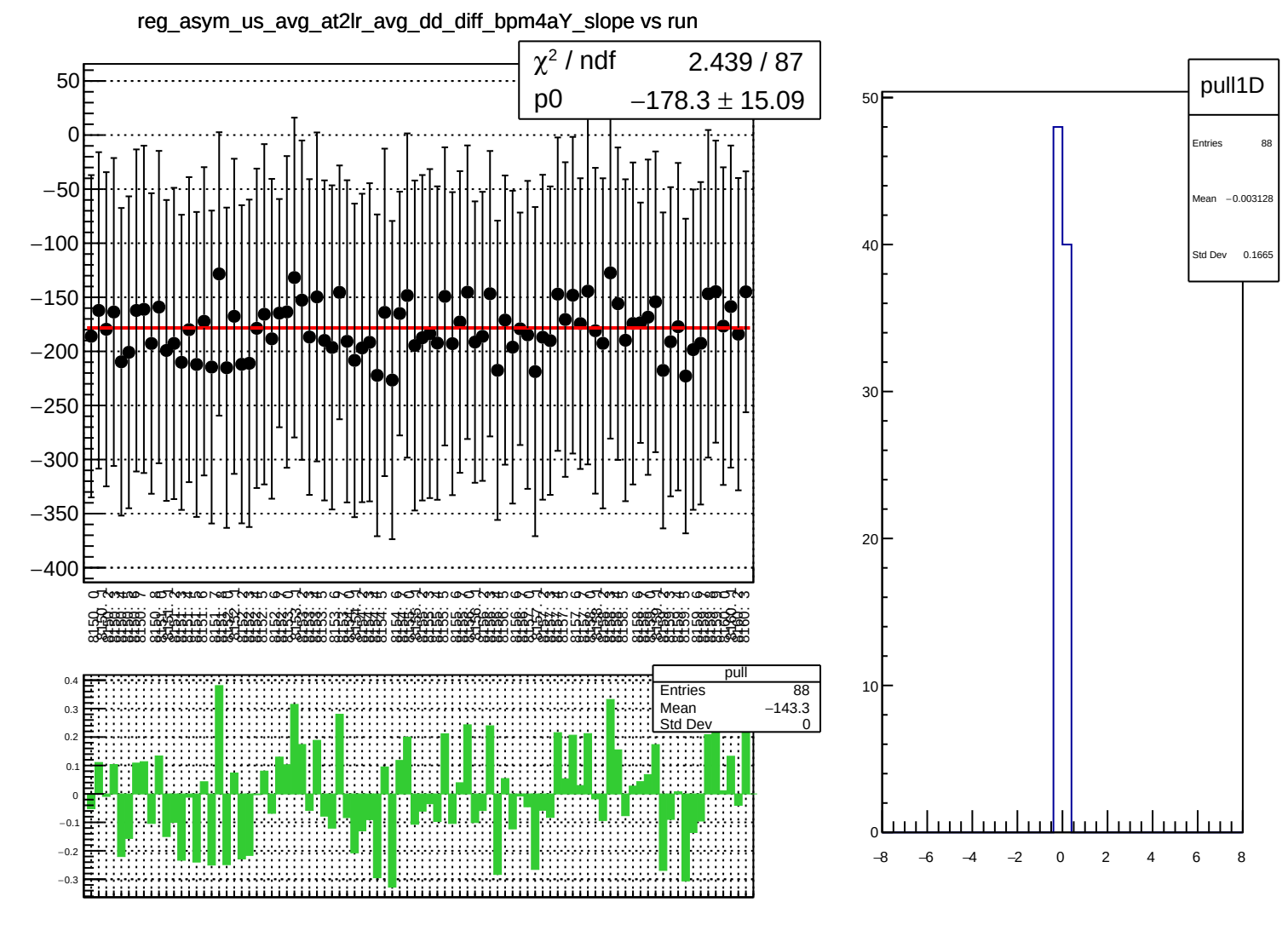

pull1D
Entries 88
Mean 0.0001058
Std Dev 0.1858
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

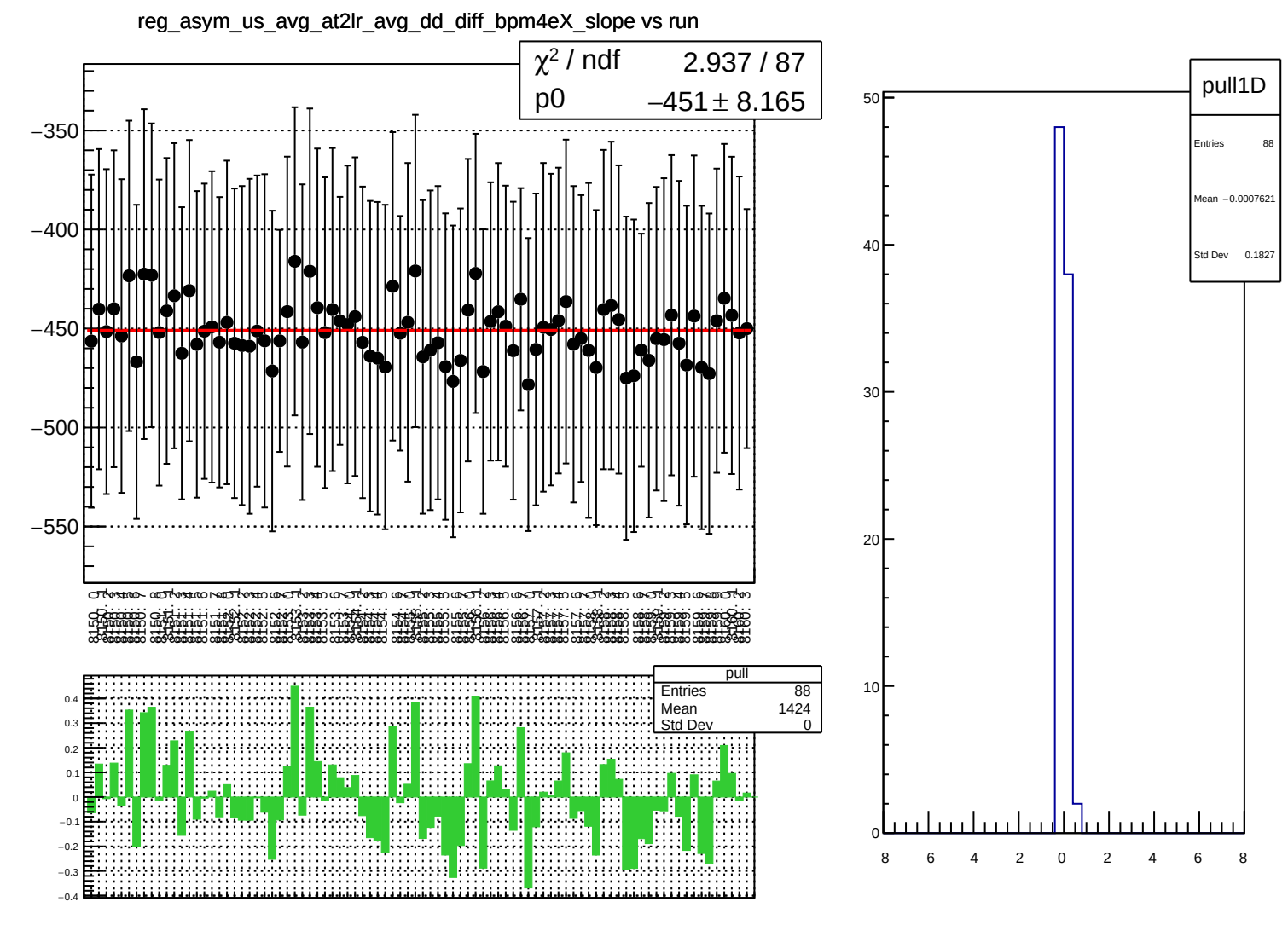

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.907 / 87
p0 −96.33 ± 21.31
200
100
0
−100
−200
−300
−400
pull
Entries 88
Mean 62.48
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

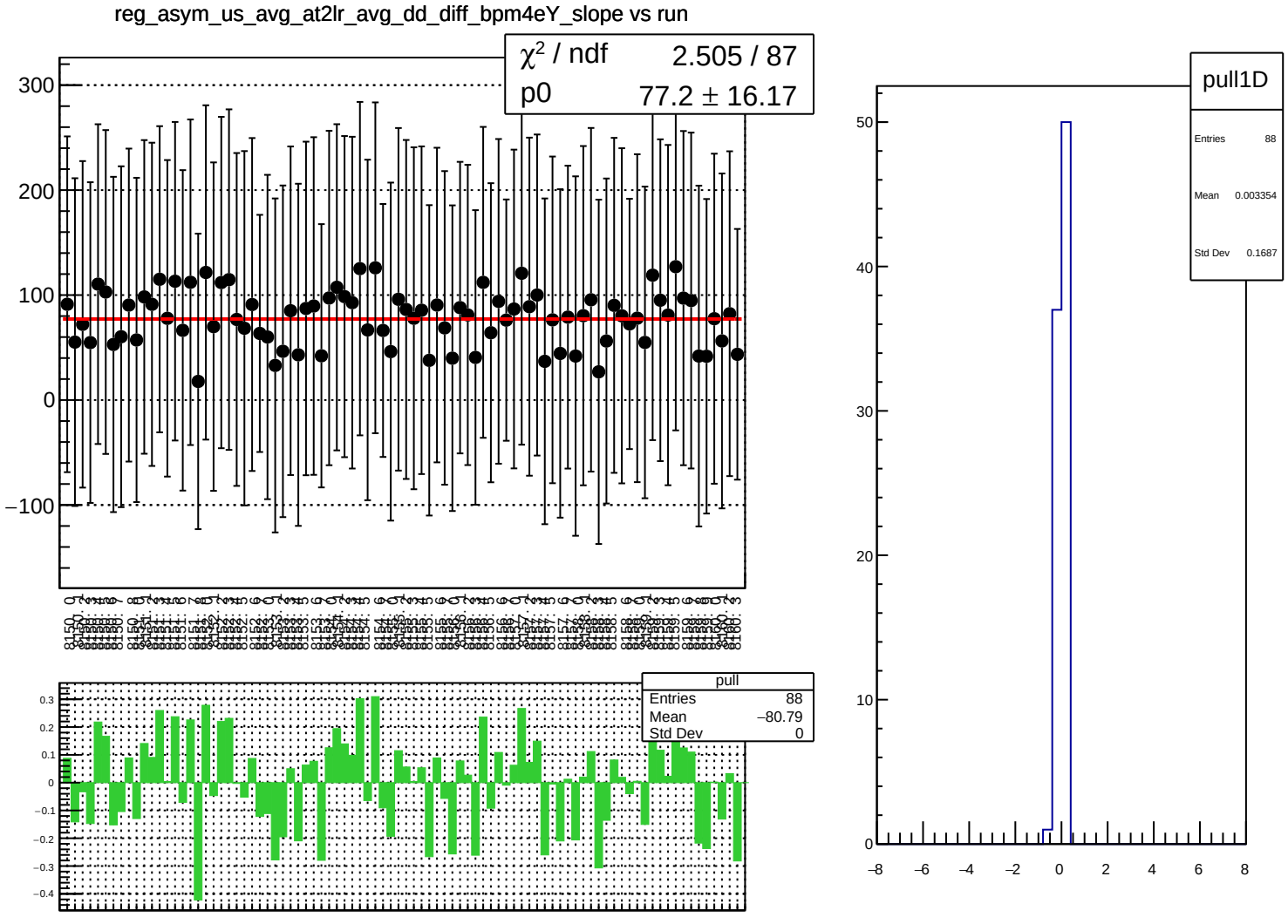

pull1D
Entries 88
Mean −0.001532
Std Dev 0.1818
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

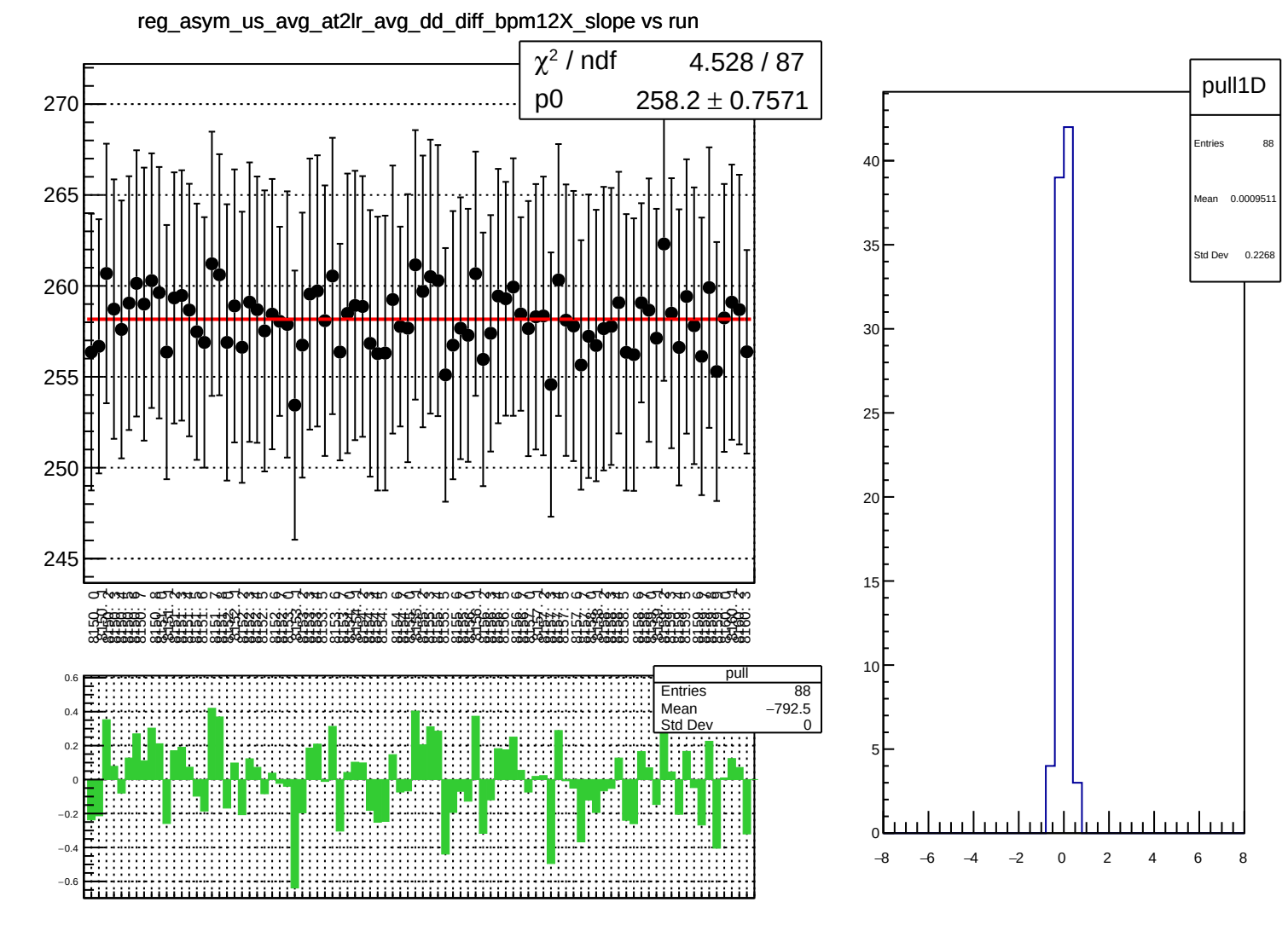

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 4.787 / 87
p0 −341.9 ± 0.998
−325
−330
−335
−340
−345
−350
−355
pull
Entries 88
Mean −173
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.003728
Std Dev 0.2332
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

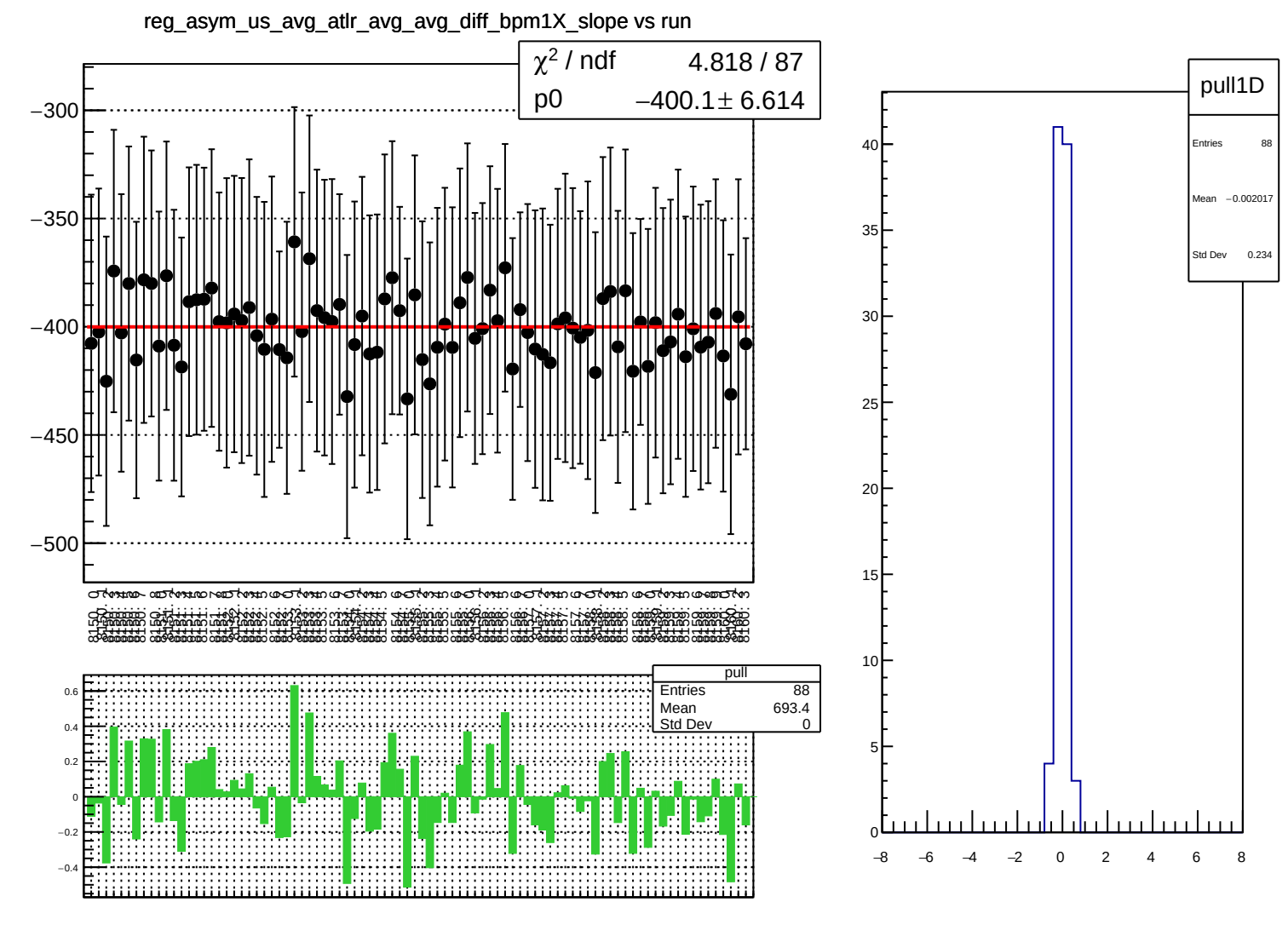

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 3.254 / 87
p0 487.4 ± 8.056
600
550
500
450
400
350
pull
Entries 88
Mean 570.4
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.001814
Std Dev 0.1923
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

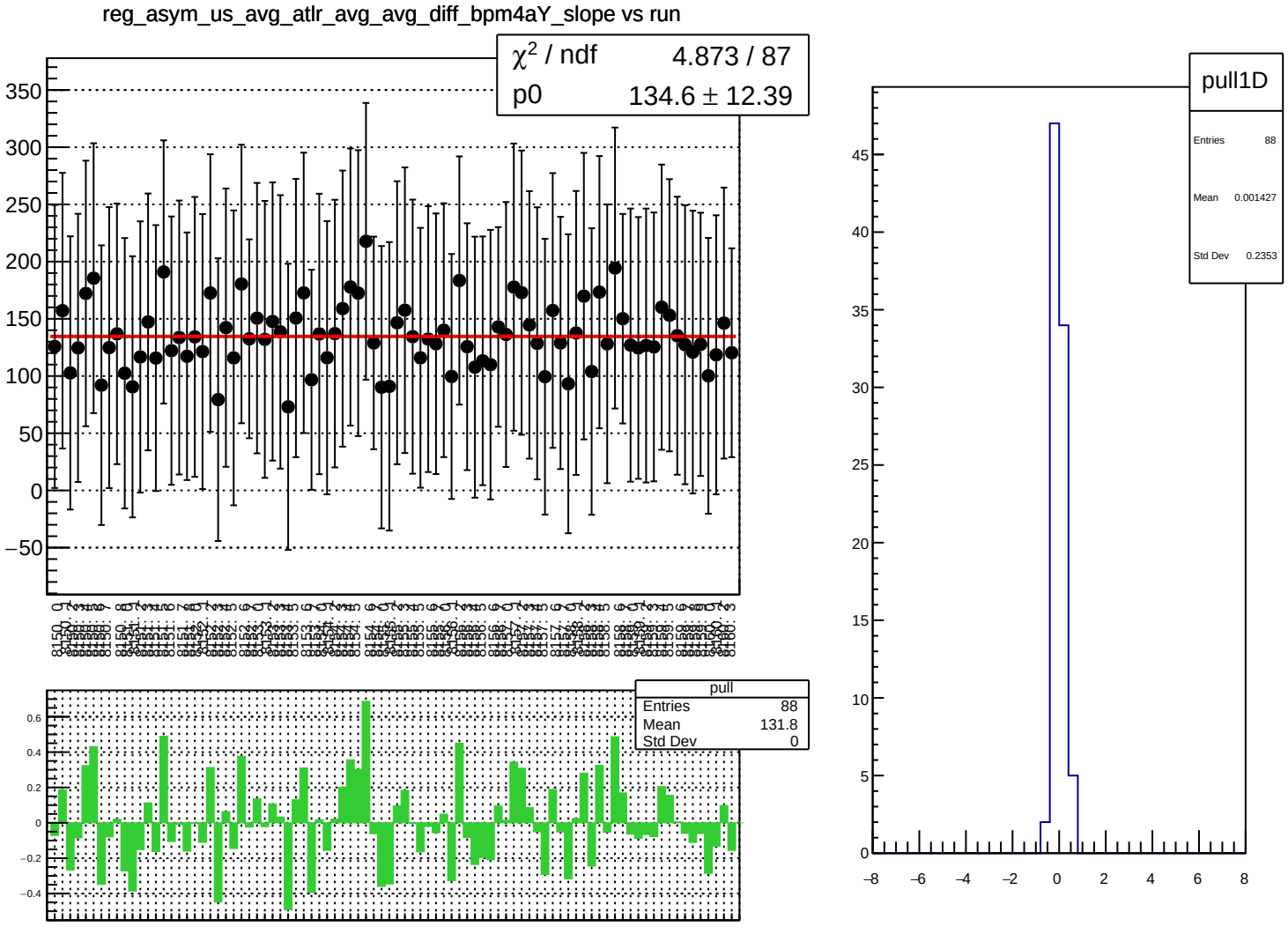

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.439 / 87
p0 −178.3 ± 15.09
pull
Entries 88
Mean −143.3
Std Dev 0
pull1D
Entries 88
Mean −0.003128
Std Dev 0.1665

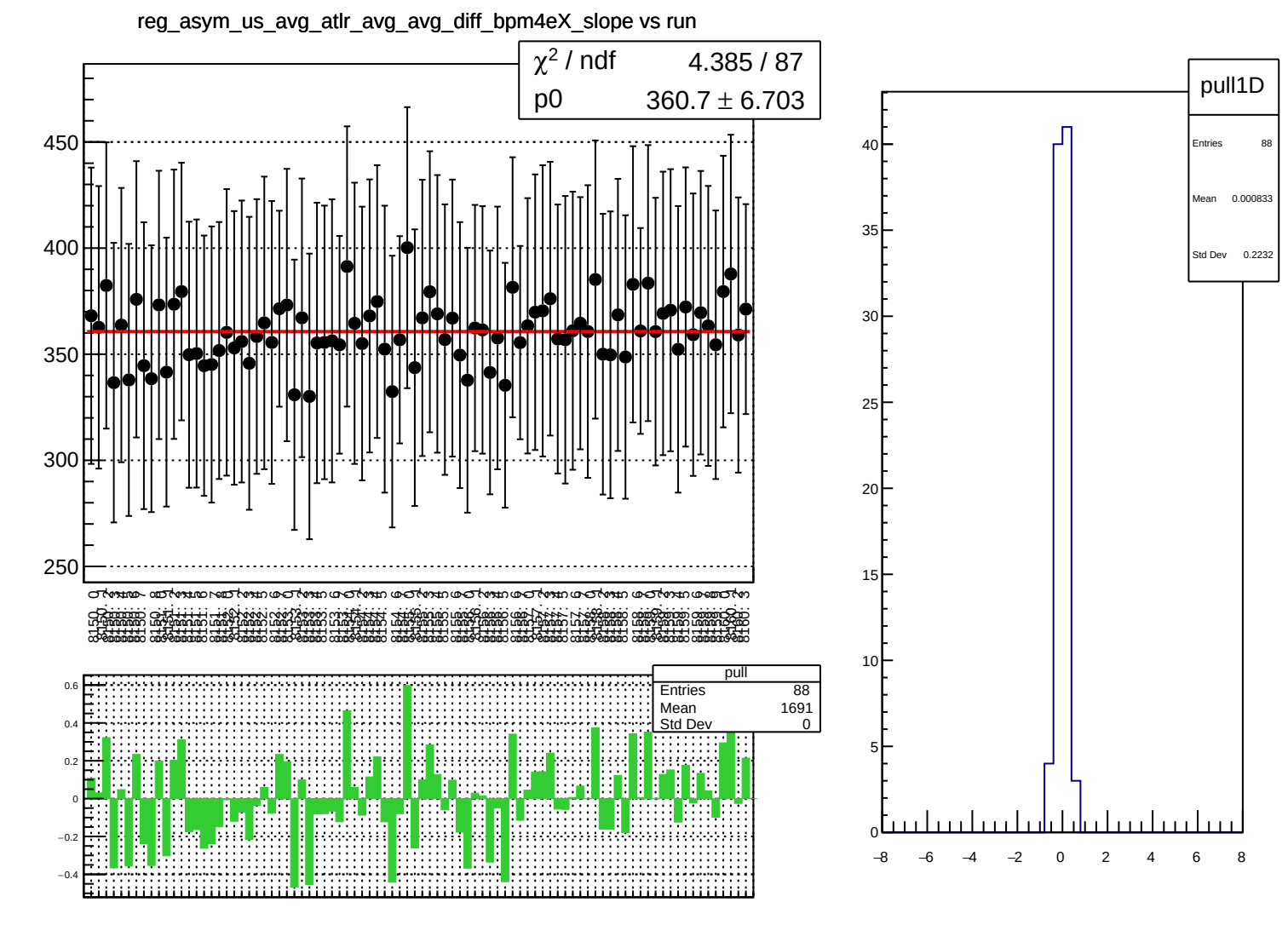

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.937 / 87
p0 −451 ± 8.165
−350
−400
−450
−500
−550
pull
Entries 88
Mean 1424
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 88
Mean −0.0007621
Std Dev 0.1827
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

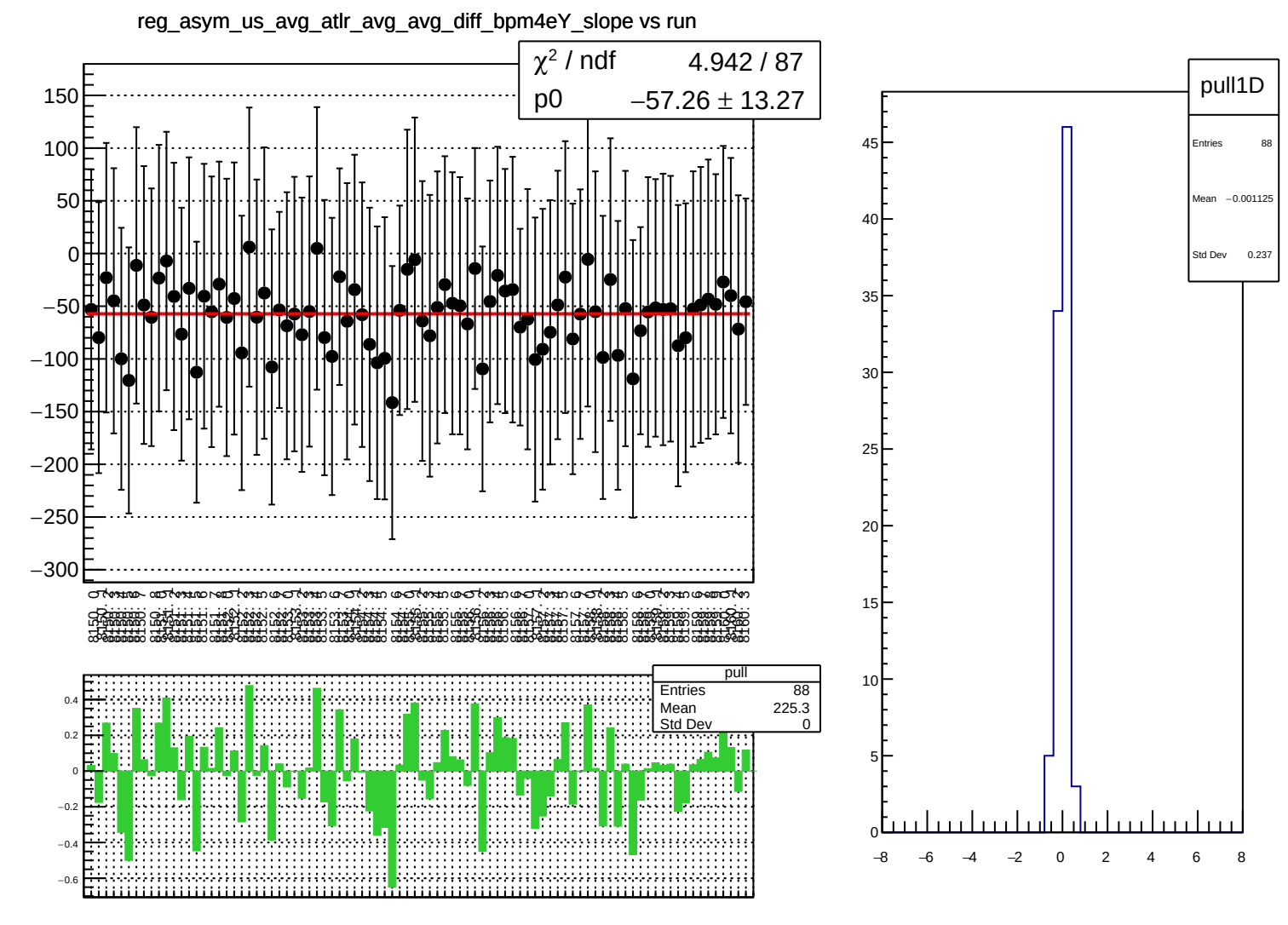

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.505 / 87
p0 77.2 ± 16.17
300
200
100
0
−100
pull
Entries 88
Mean −80.79
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 88
Mean 0.003354
Std Dev 0.1687
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

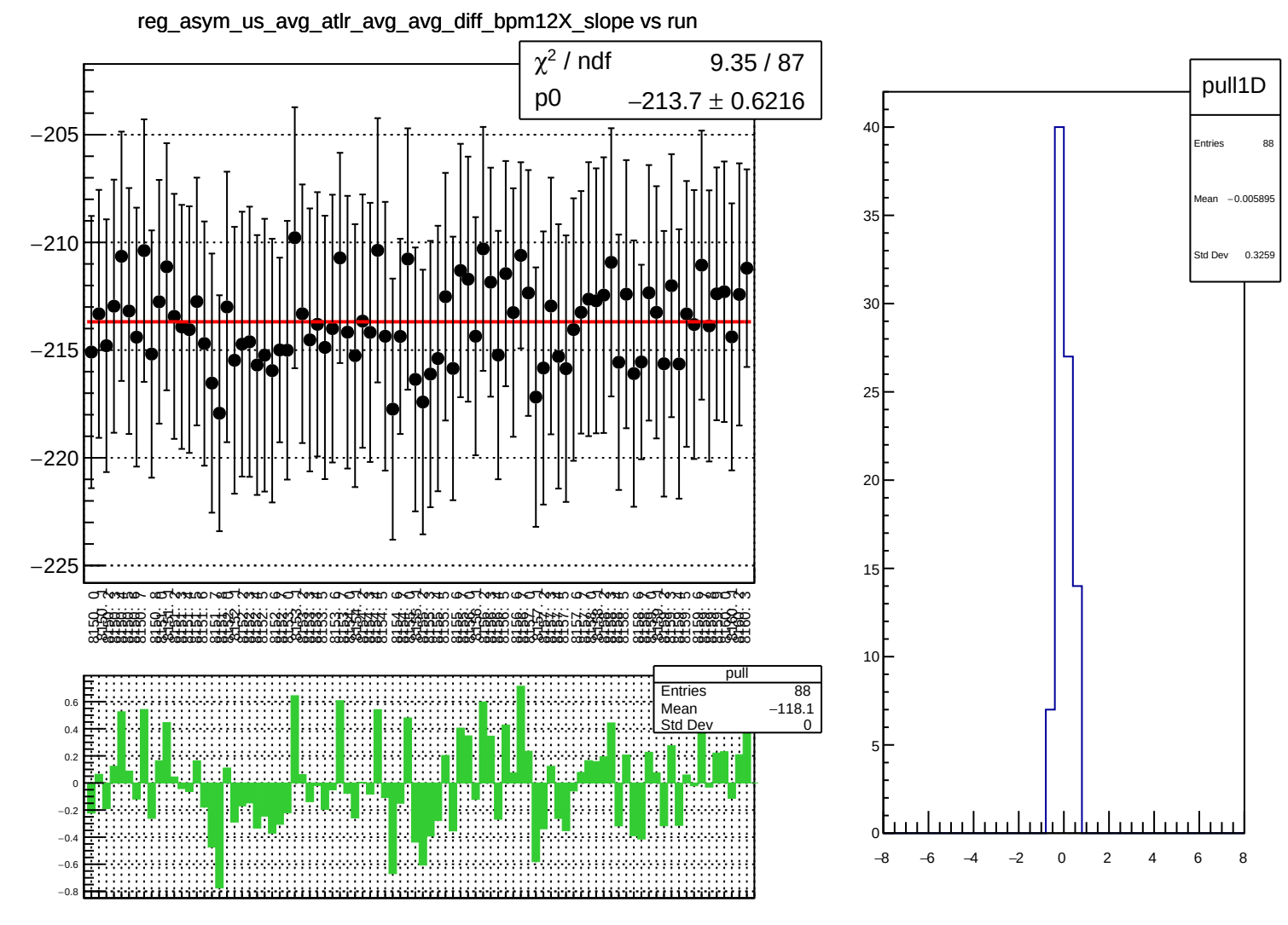

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ^2 / ndf 4.528 / 87
p0 258.2 ± 0.7571
270
265
260
255
250
245
pull
Entries 88
Mean −792.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.0009511
Std Dev 0.2268
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

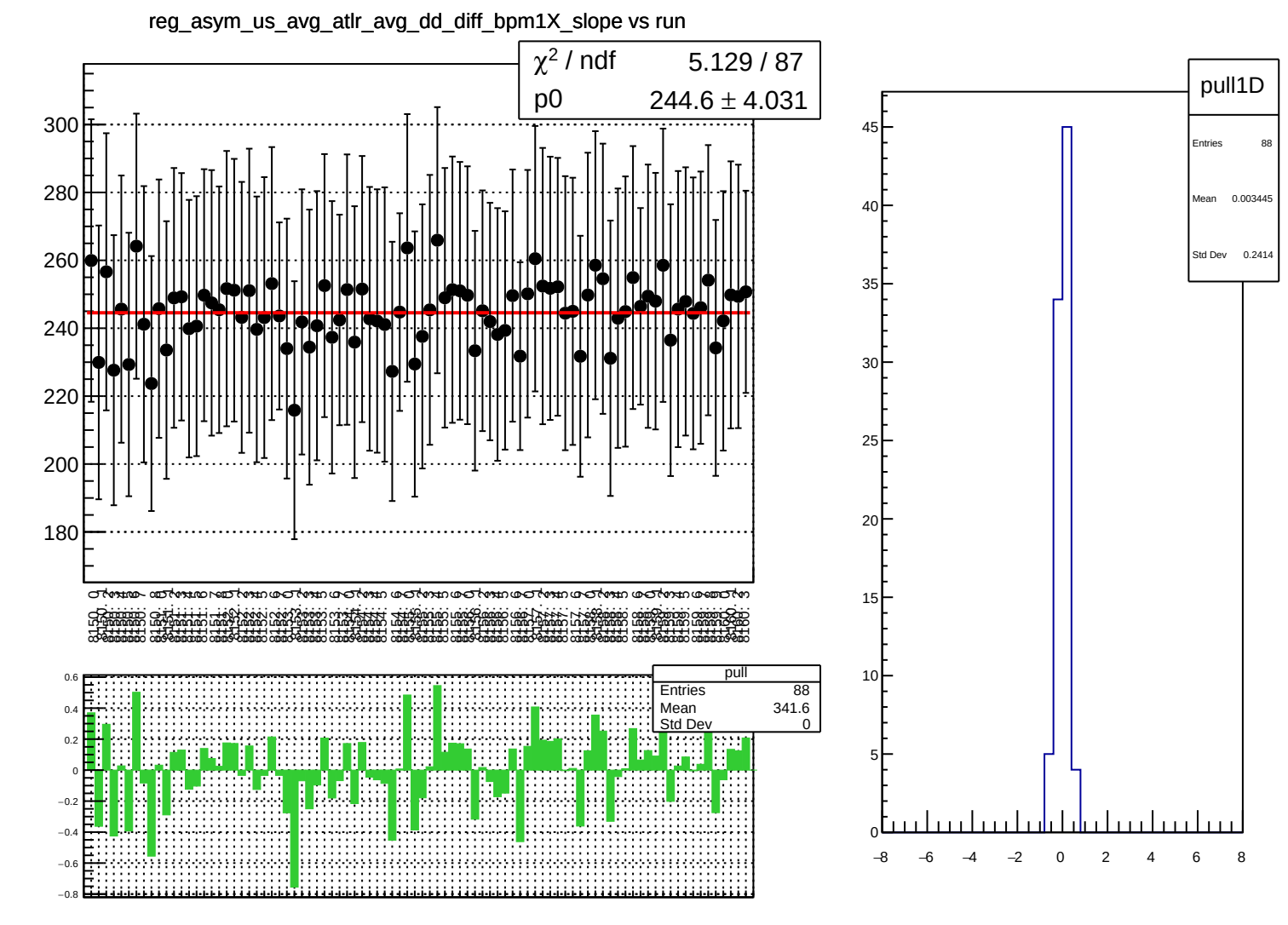

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 4.818 / 87
p0 −400.1 ± 6.614
−300
−350
−400
−450
−500
pull
Entries 88
Mean 693.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.002017
Std Dev 0.234
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

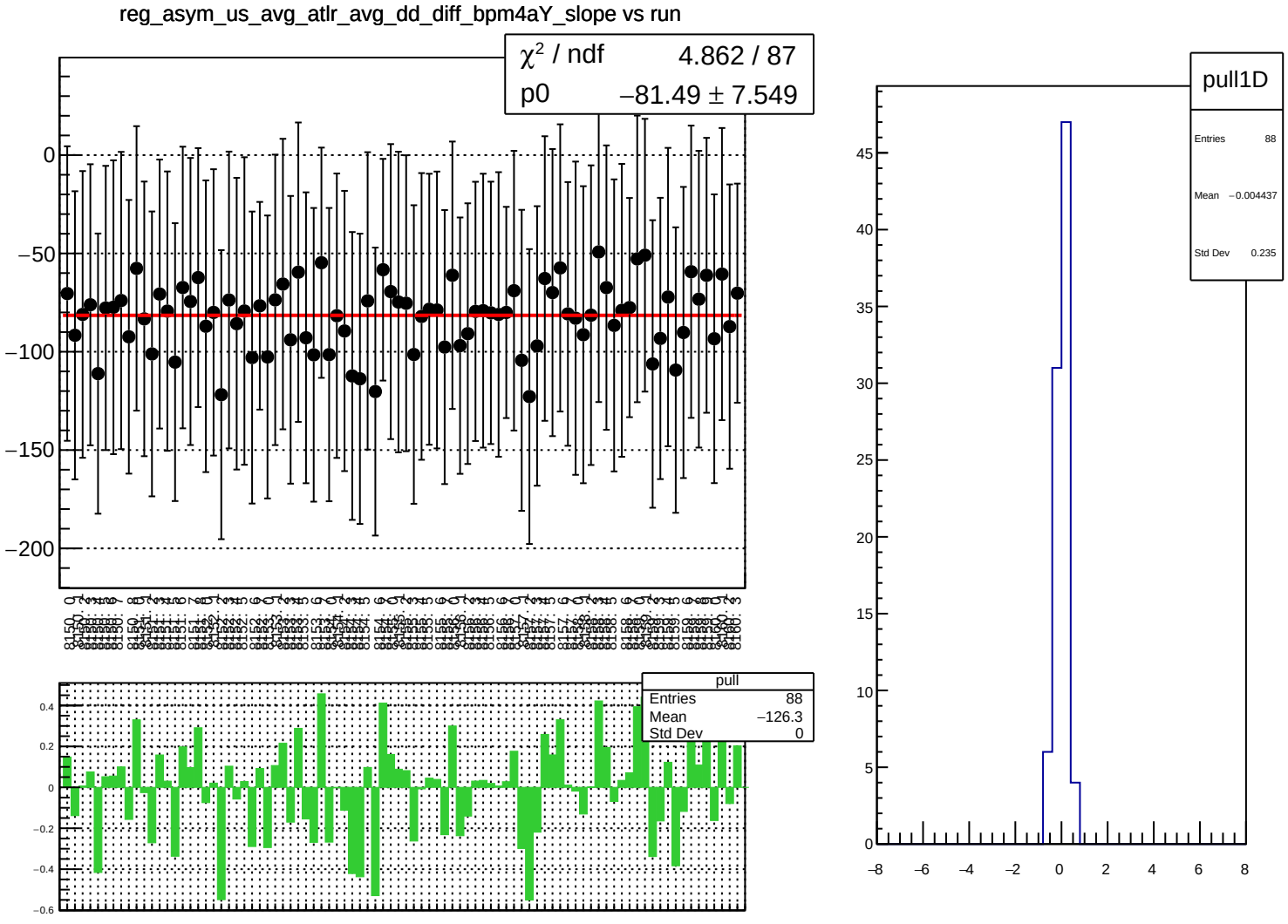

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.873 / 87
p0 134.6 ± 12.39
pull
Entries 88
Mean 131.8
Std Dev 0
pull1D
Entries 88
Mean 0.001427
Std Dev 0.2353

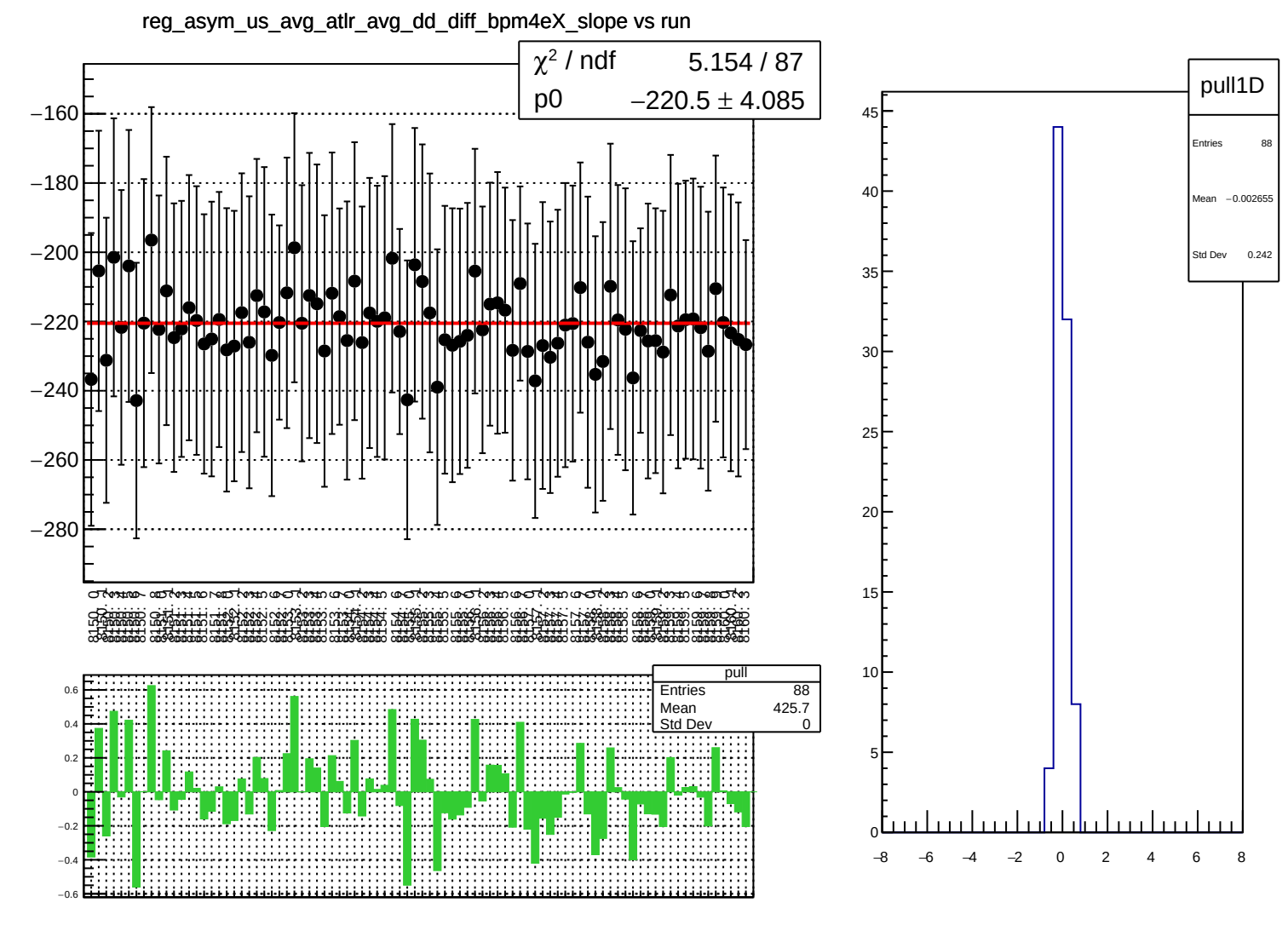

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.385 / 87
p0 360.7 ± 6.703
450
400
350
300
250
pull
Entries 88
Mean 1691
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean 0.000833
Std Dev 0.2232
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

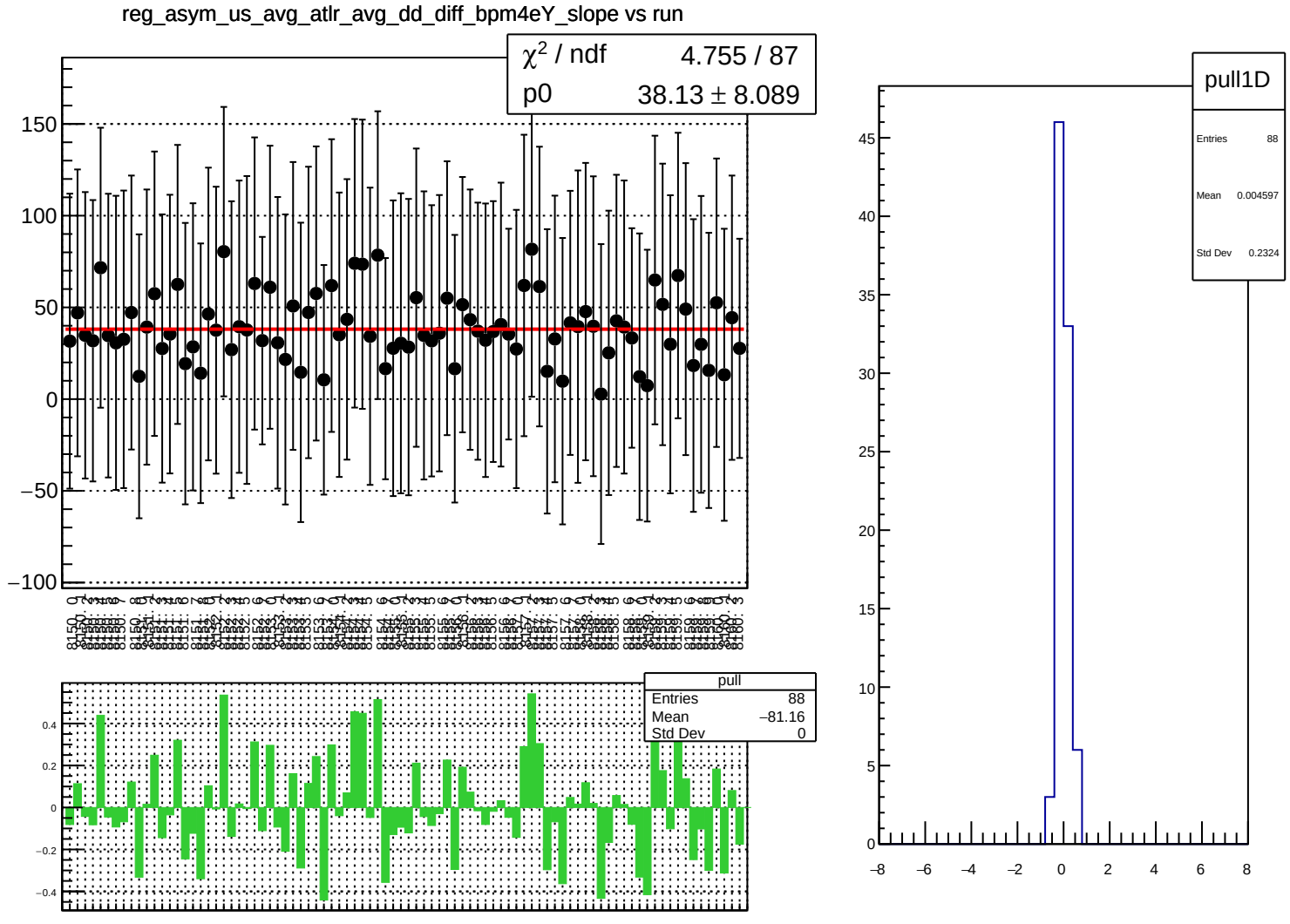

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.942 / 87
p0 −57.26 ± 13.27
150
100
50
0
−50
−100
−150
−200
−250
−300
pull
Entries 88
Mean 225.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.001125
Std Dev 0.237
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

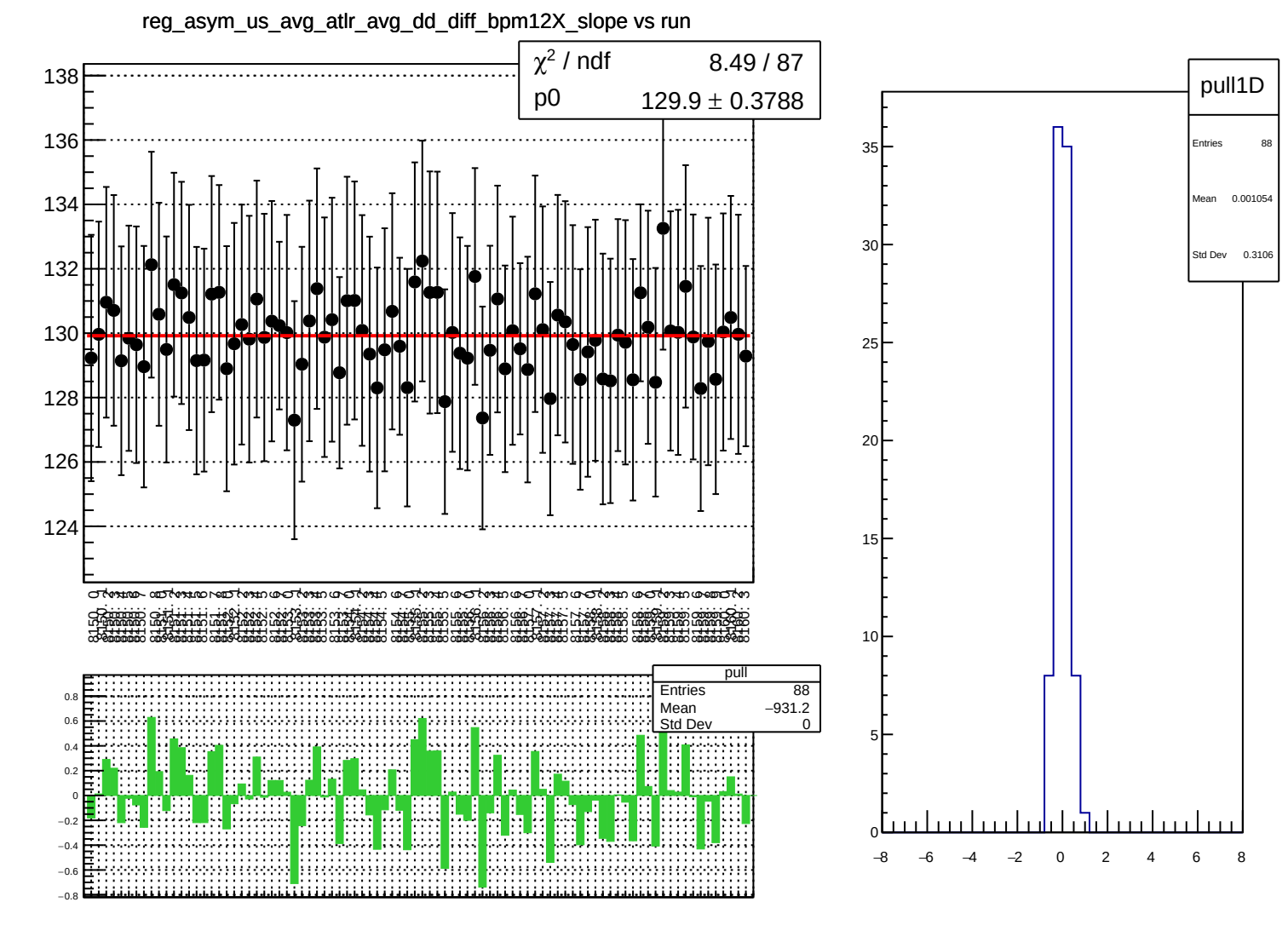

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 9.35 / 87
p0 −213.7 ± 0.6216
−205
−210
−215
−220
−225
pull
Entries 88
Mean −118.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean −0.005895
Std Dev 0.3259
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

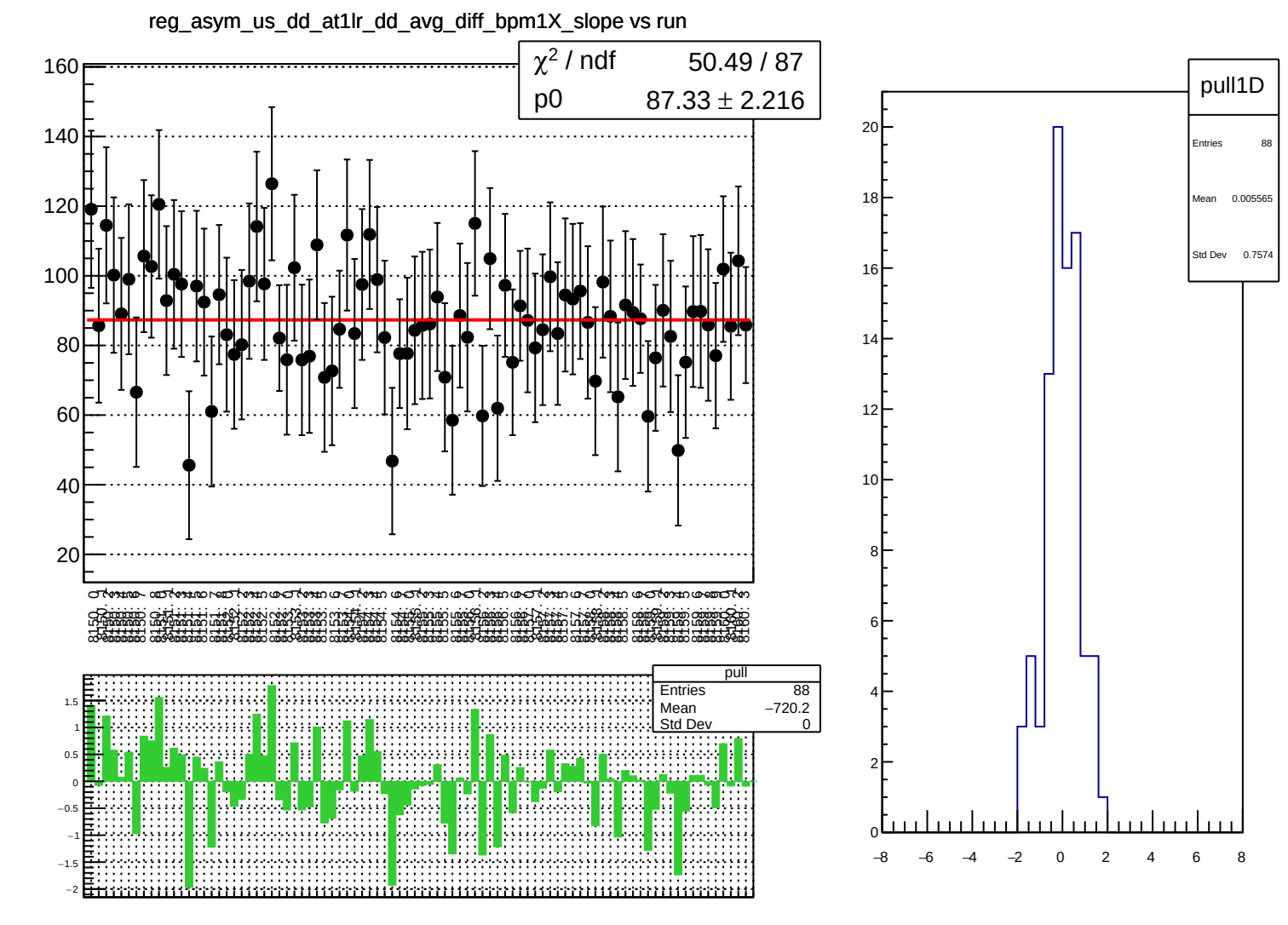

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 5.129 / 87
p0 244.6 ± 4.031
pull
Entries 88
Mean 341.6
Std Dev 0
pull1D
Entries 88
Mean 0.003445
Std Dev 0.2414

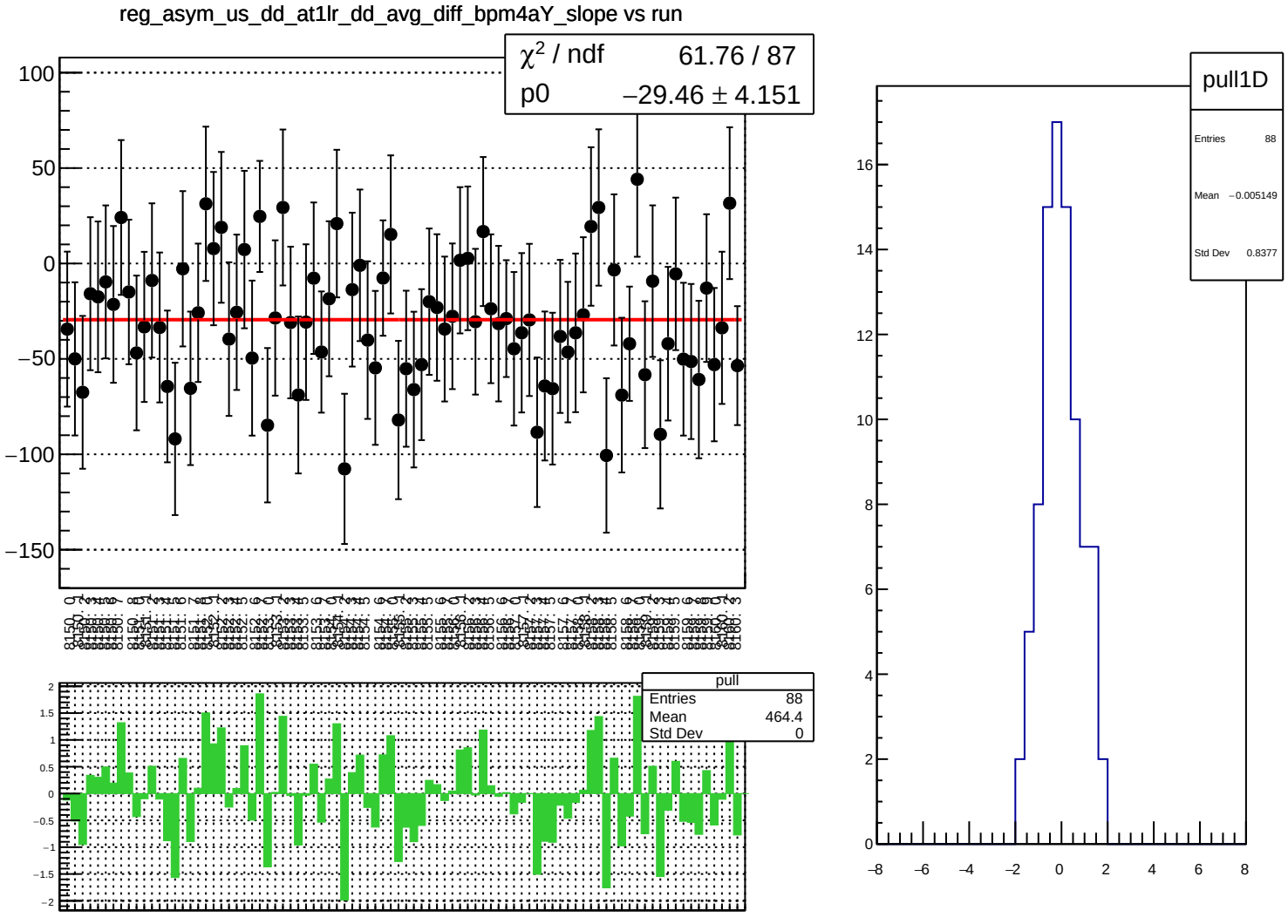

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.862 / 87
p0 −81.49 ± 7.549
0
−50
−100
−150
−200
pull
Entries 88
Mean −126.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.004437
Std Dev 0.235
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

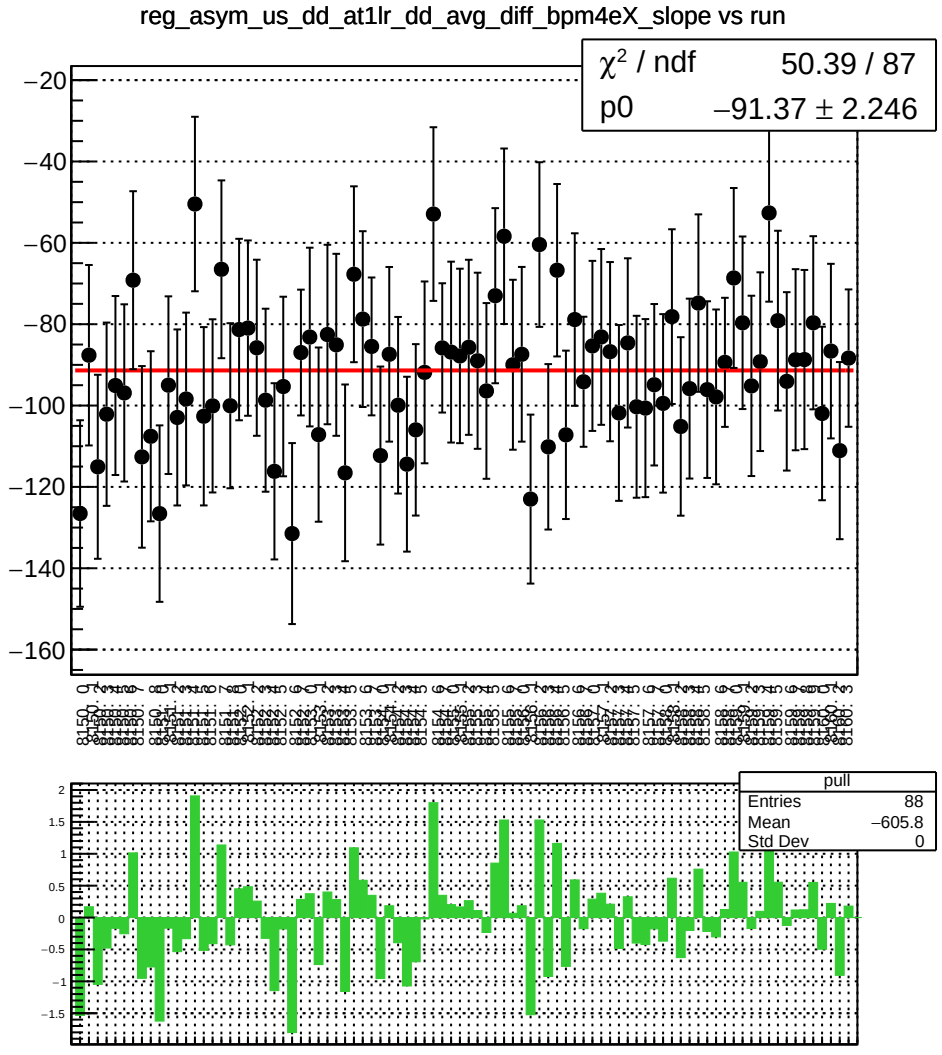

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.154 / 87
p0 −220.5 ± 4.085
pull
Entries 88
Mean 425.7
Std Dev 0
pull1D
Entries 88
Mean −0.002655
Std Dev 0.242

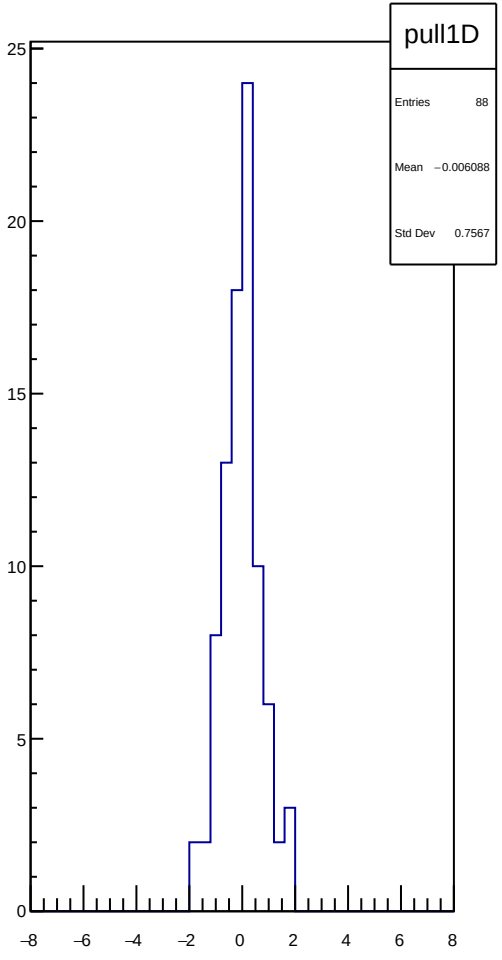

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.755 / 87
p0 38.13 ± 8.089
150
100
50
0
−50
−100
pull
Entries 88
Mean −81.16
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean 0.004597
Std Dev 0.2324
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

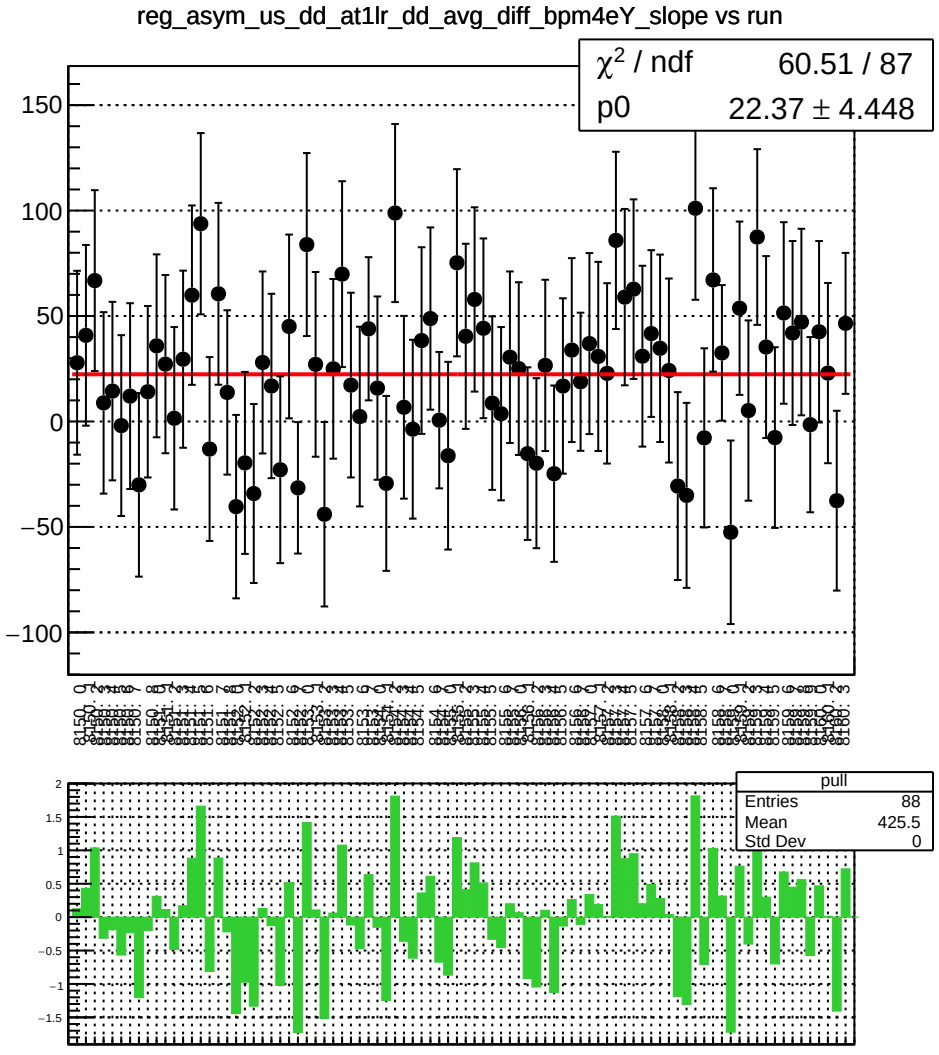

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 8.49 / 87
p0 129.9 ± 0.3788
pull
Entries 88
Mean −931.2
Std Dev 0
pull1D
Entries 88
Mean 0.001054
Std Dev 0.3106

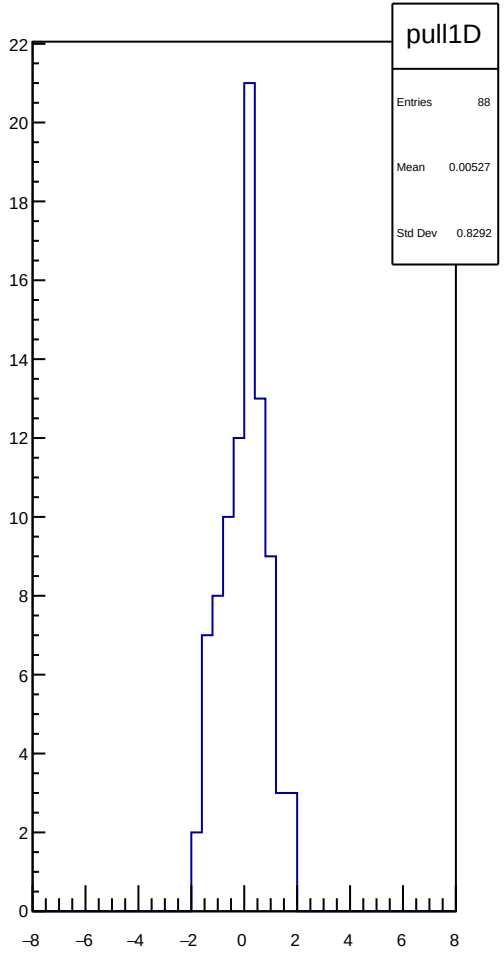

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 50.49 / 87
p0 87.33 ± 2.216
pull
Entries 88
Mean −720.2
Std Dev 0
pull1D
Entries 88
Mean 0.005565
Std Dev 0.7574

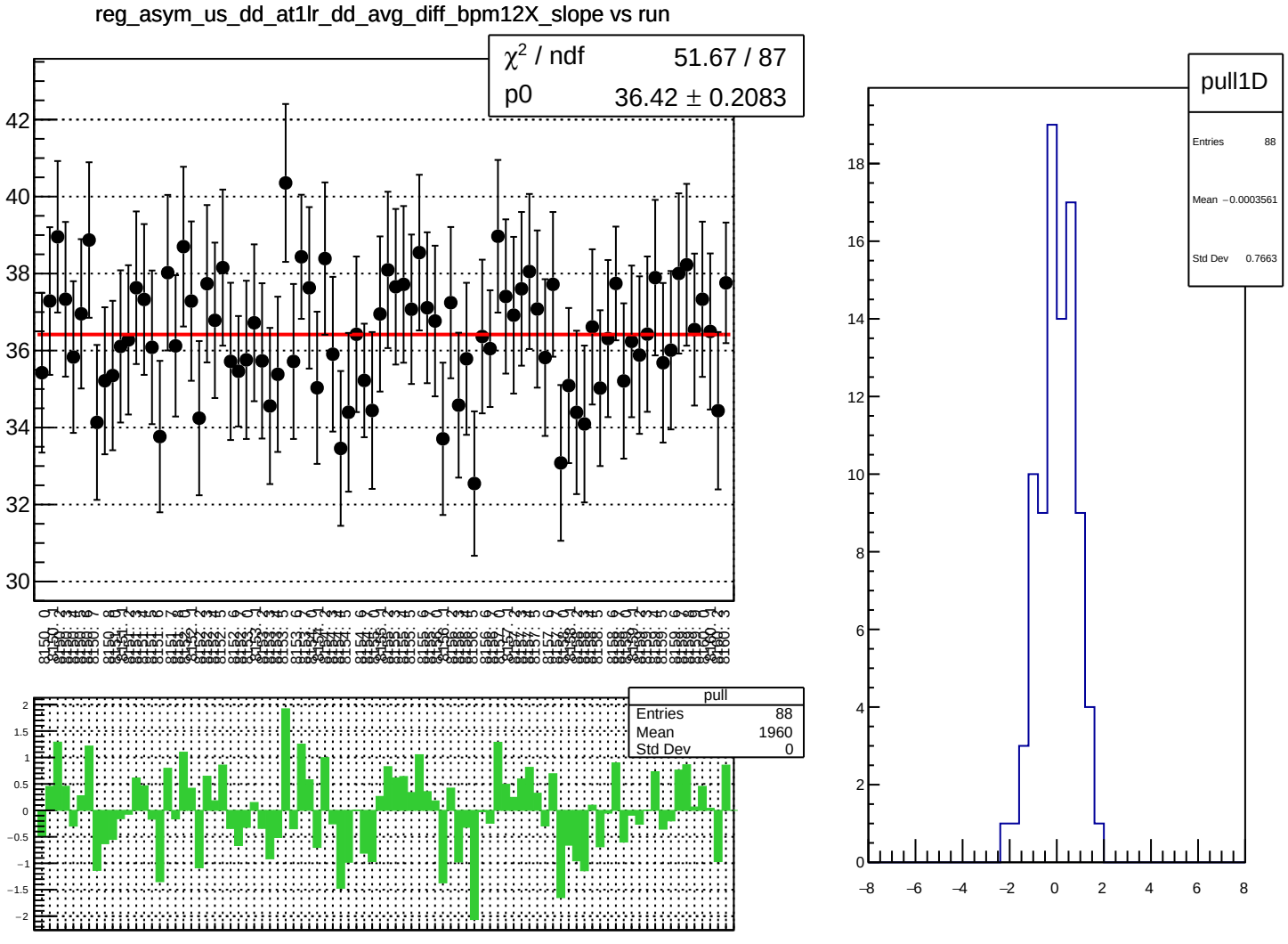

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 61.76 / 87
p0 −29.46 ± 4.151
pull
Entries 88
Mean 464.4
Std Dev 0
pull1D
Entries 88
Mean −0.005149
Std Dev 0.8377

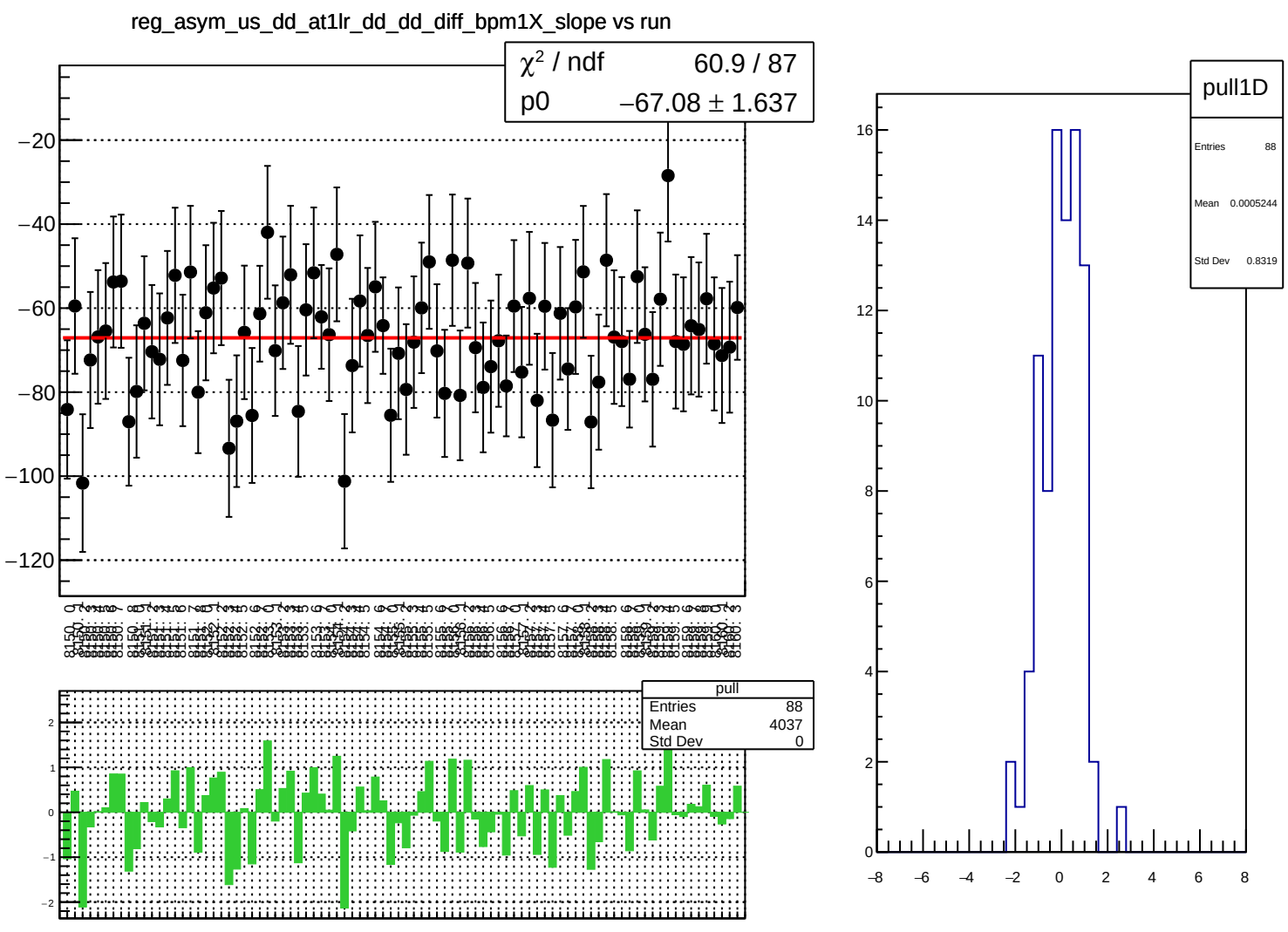

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 50.39 / 87
p0 −91.37 ± 2.246
pull
Entries 88
Mean −605.8
Std Dev 0

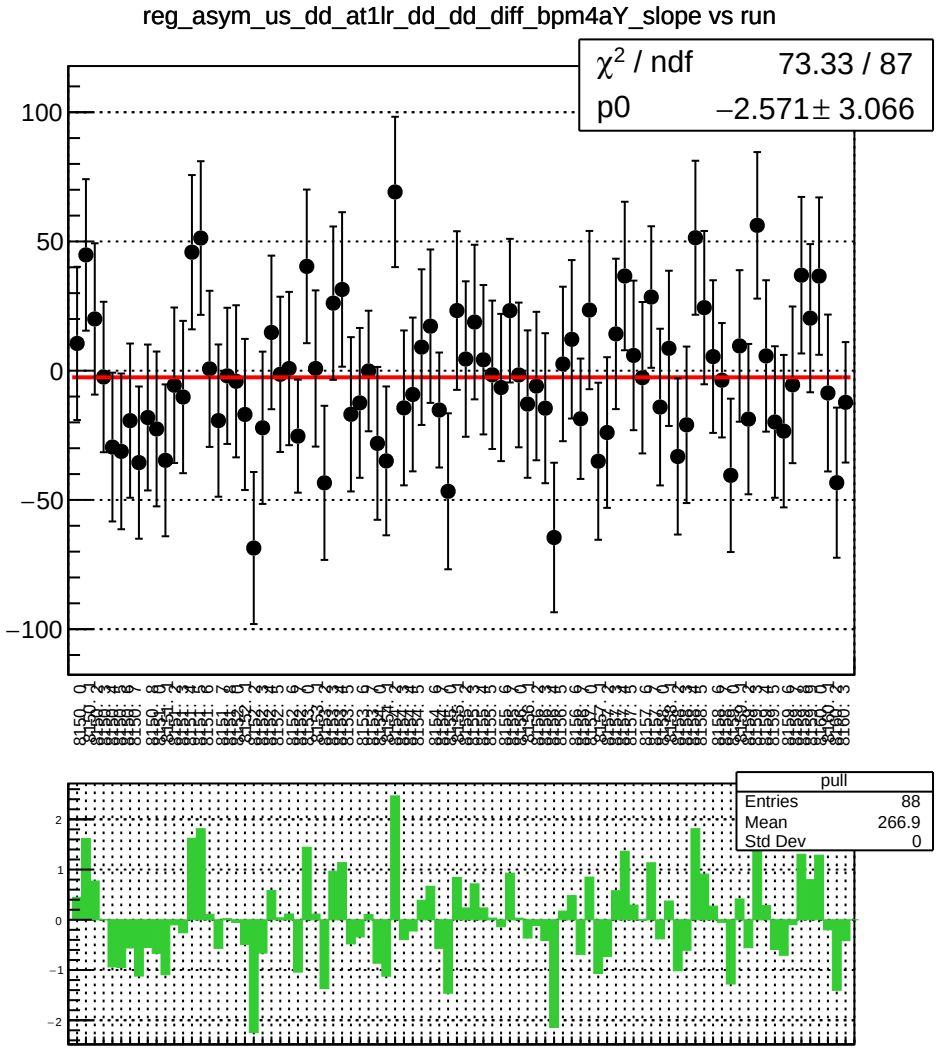

pull1D
Entries 88
Mean −0.006088
Std Dev 0.7567

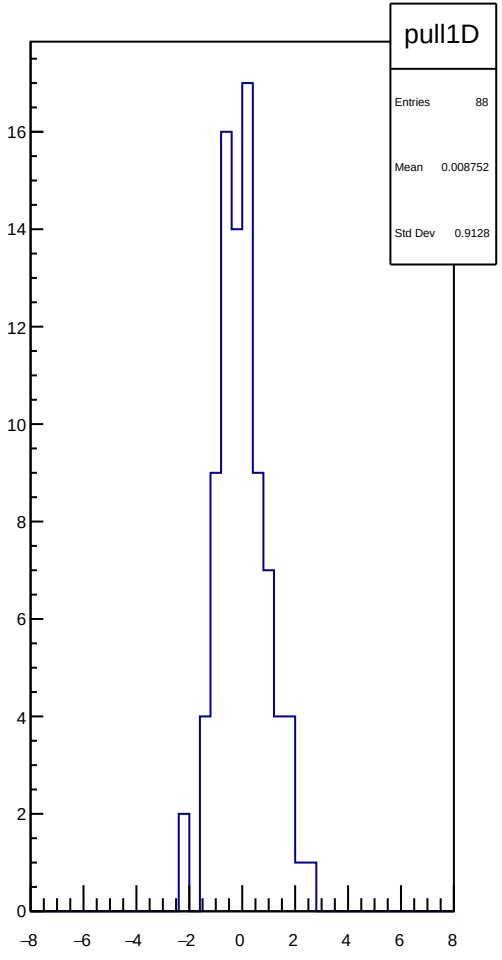

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 60.51 / 87
p0 22.37 ± 4.448
150
100
50
0
−50
−100
pull
Entries 88
Mean 425.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

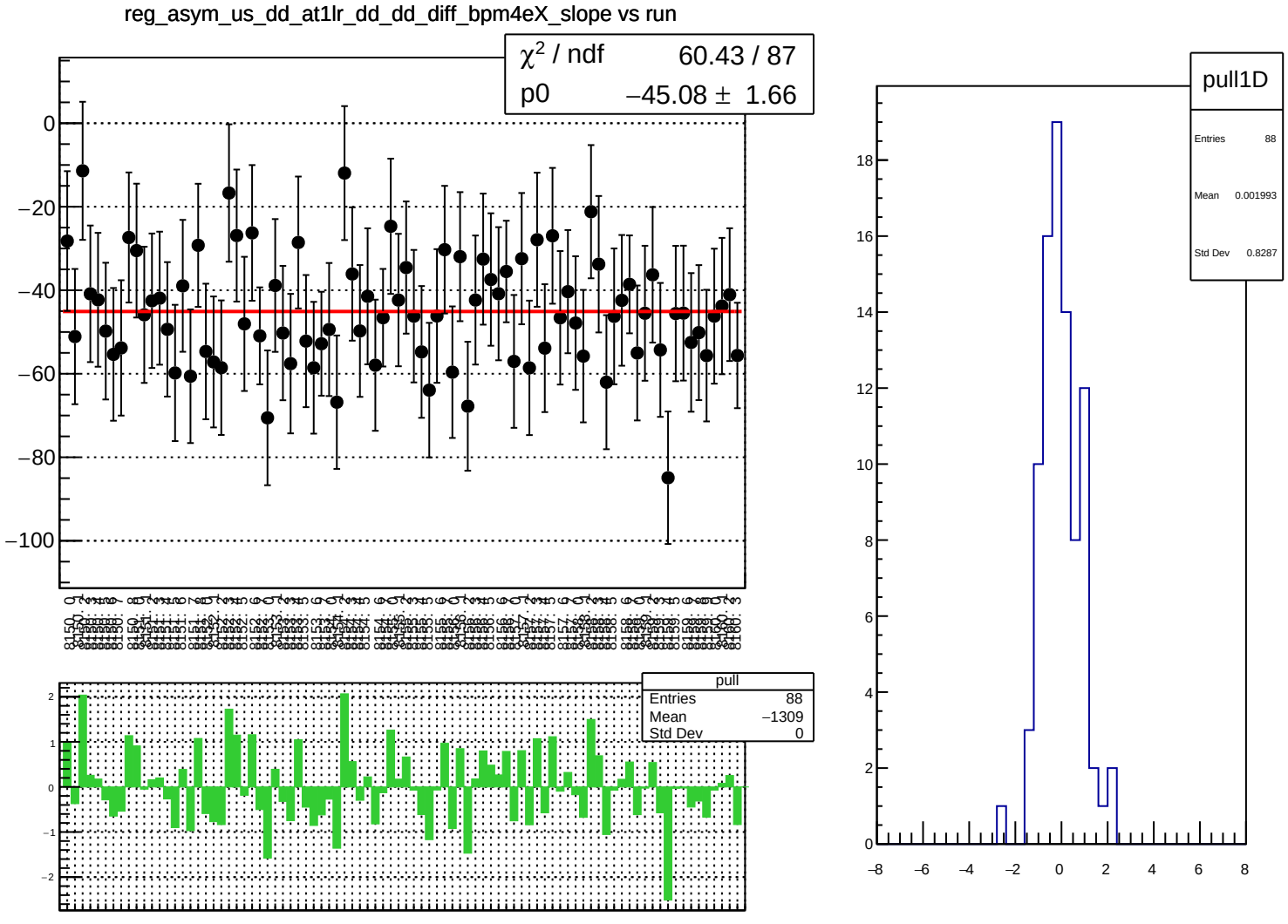

pull1D
Entries 88
Mean 0.00527
Std Dev 0.8292
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

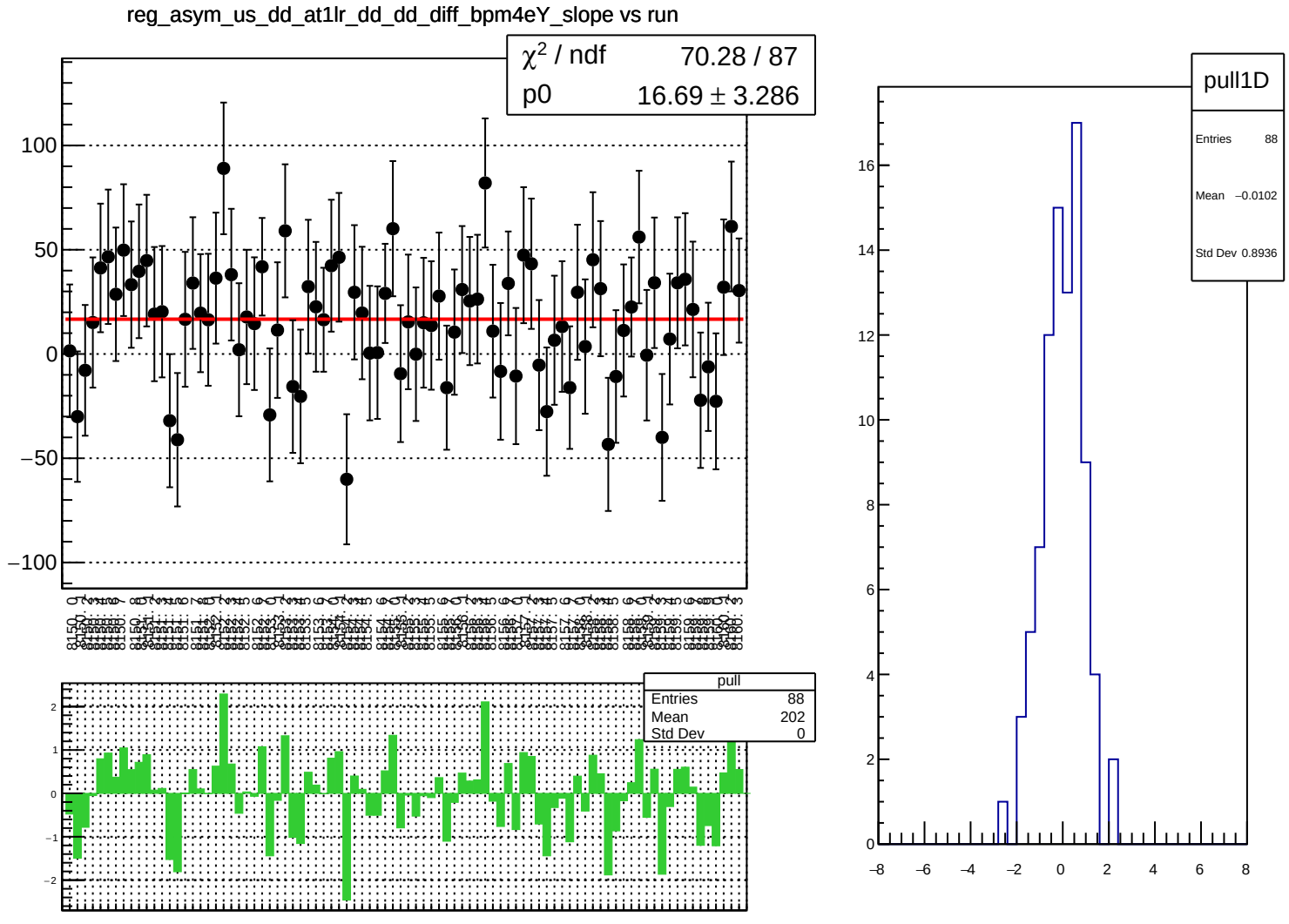

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 51.67 / 87
p0 36.42 ± 0.2083
pull
Entries 88
Mean 1960
Std Dev 0
pull1D
Entries 88
Mean −0.0003561
Std Dev 0.7663

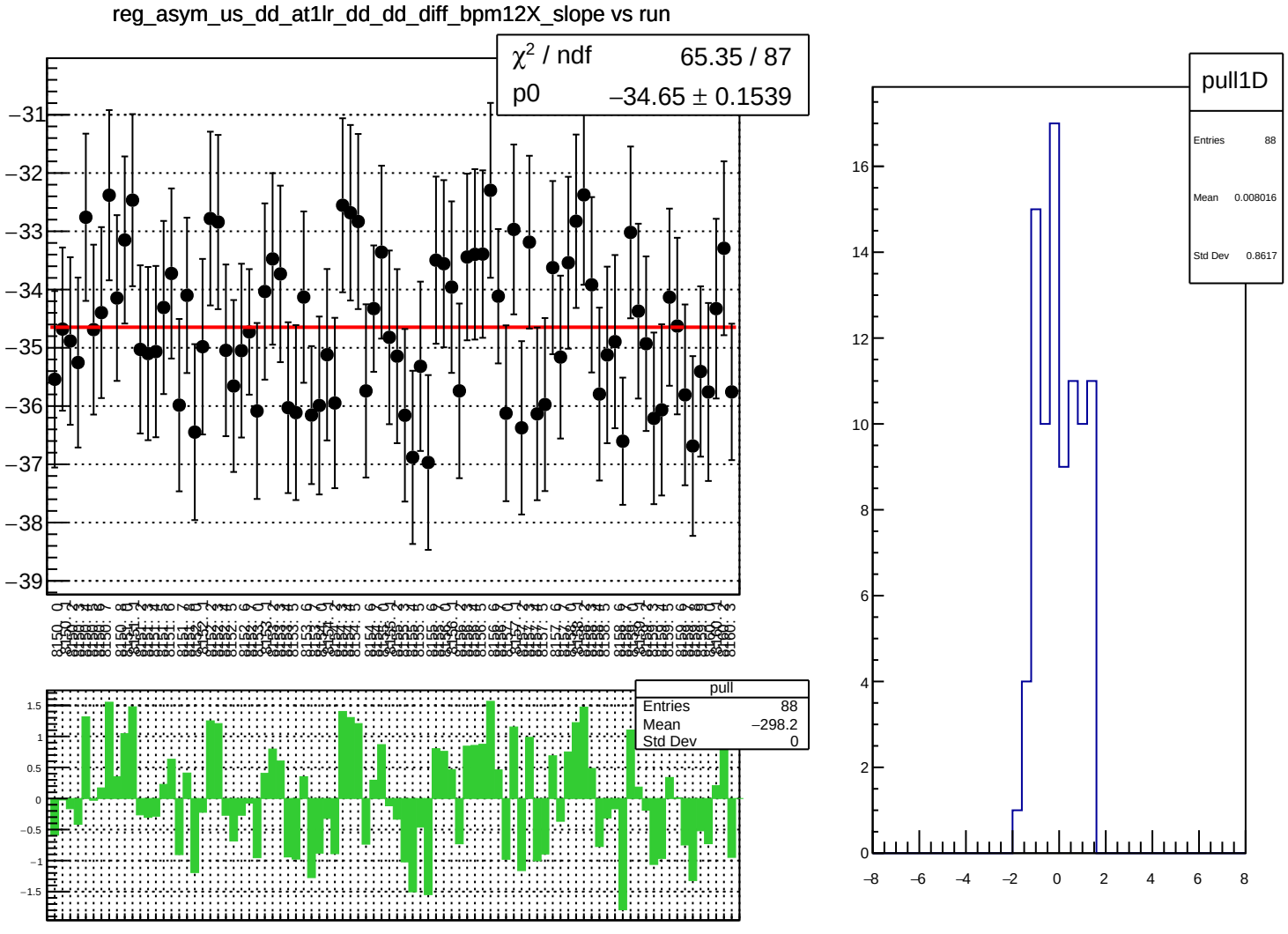

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 60.9 / 87
p0 −67.08 ± 1.637
−20
−40
−60
−80
−100
−120
pull
Entries 88
Mean 4037
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0005244
Std Dev 0.8319
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

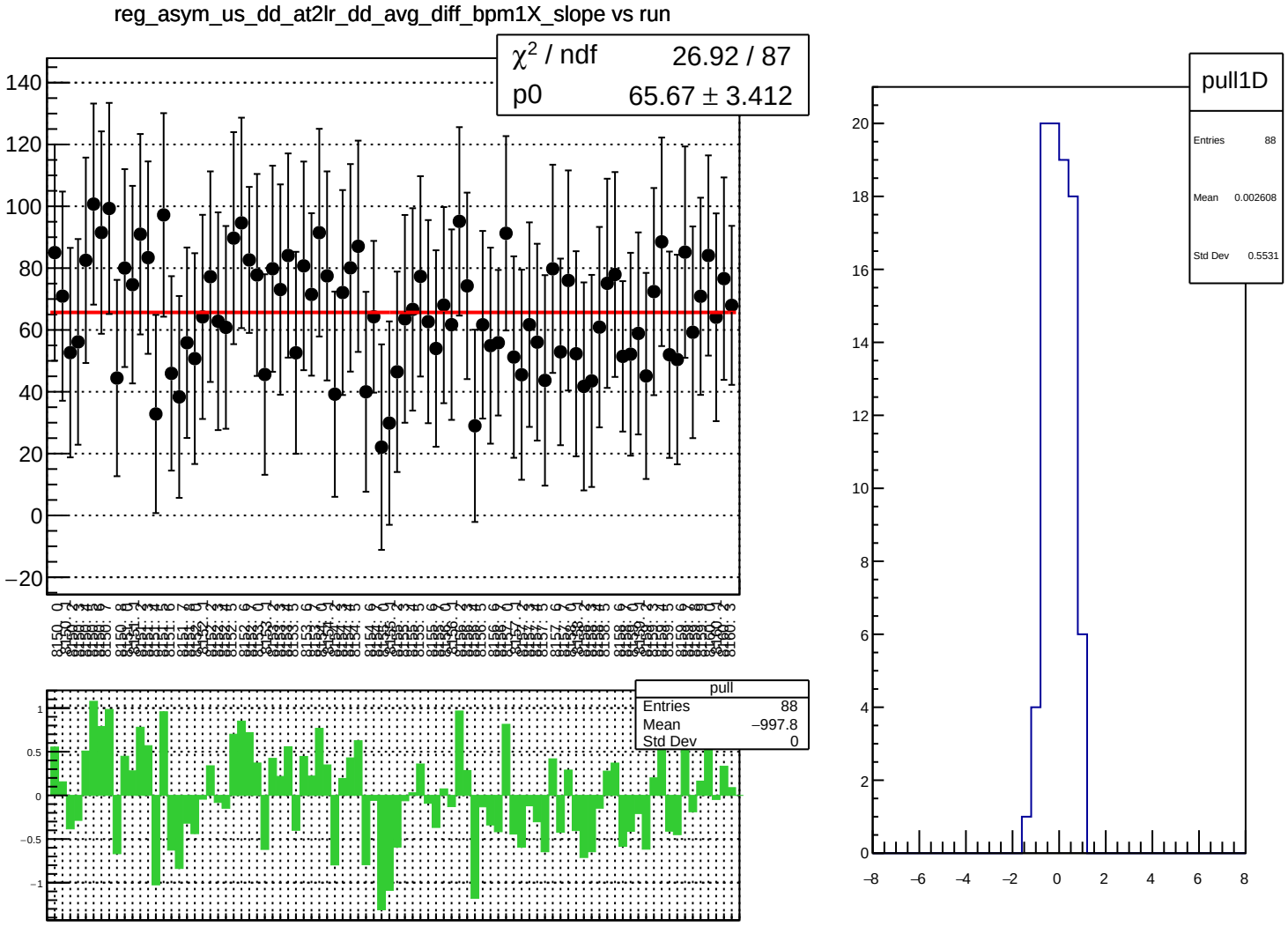

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.33 / 87
p0 −2.571 ± 3.066
100
50
0
−50
−100
pull
Entries 88
Mean 266.9
Std Dev 0
2
1
0
−1
−2

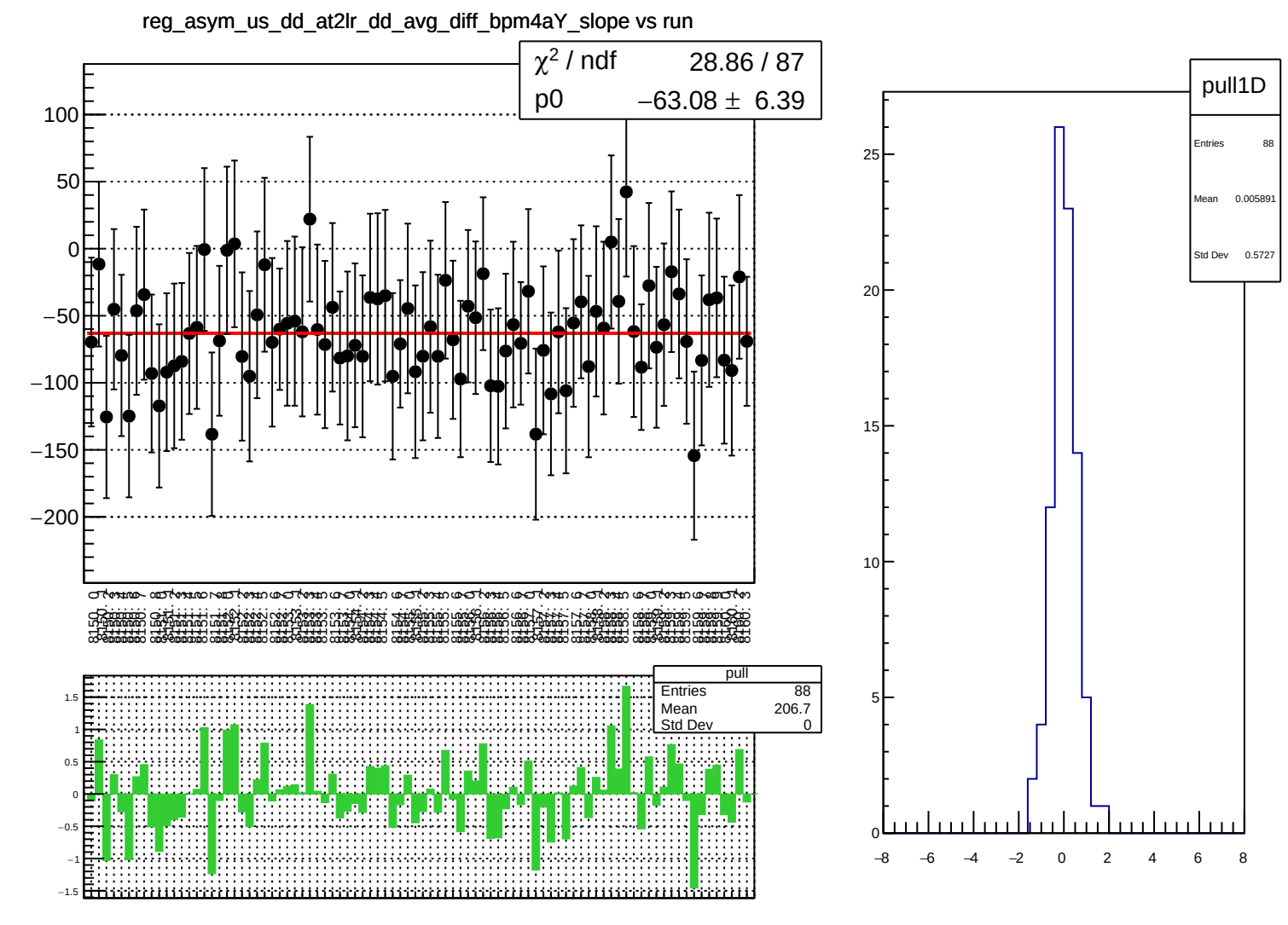

pull1D
Entries 88
Mean 0.008752
Std Dev 0.9128
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

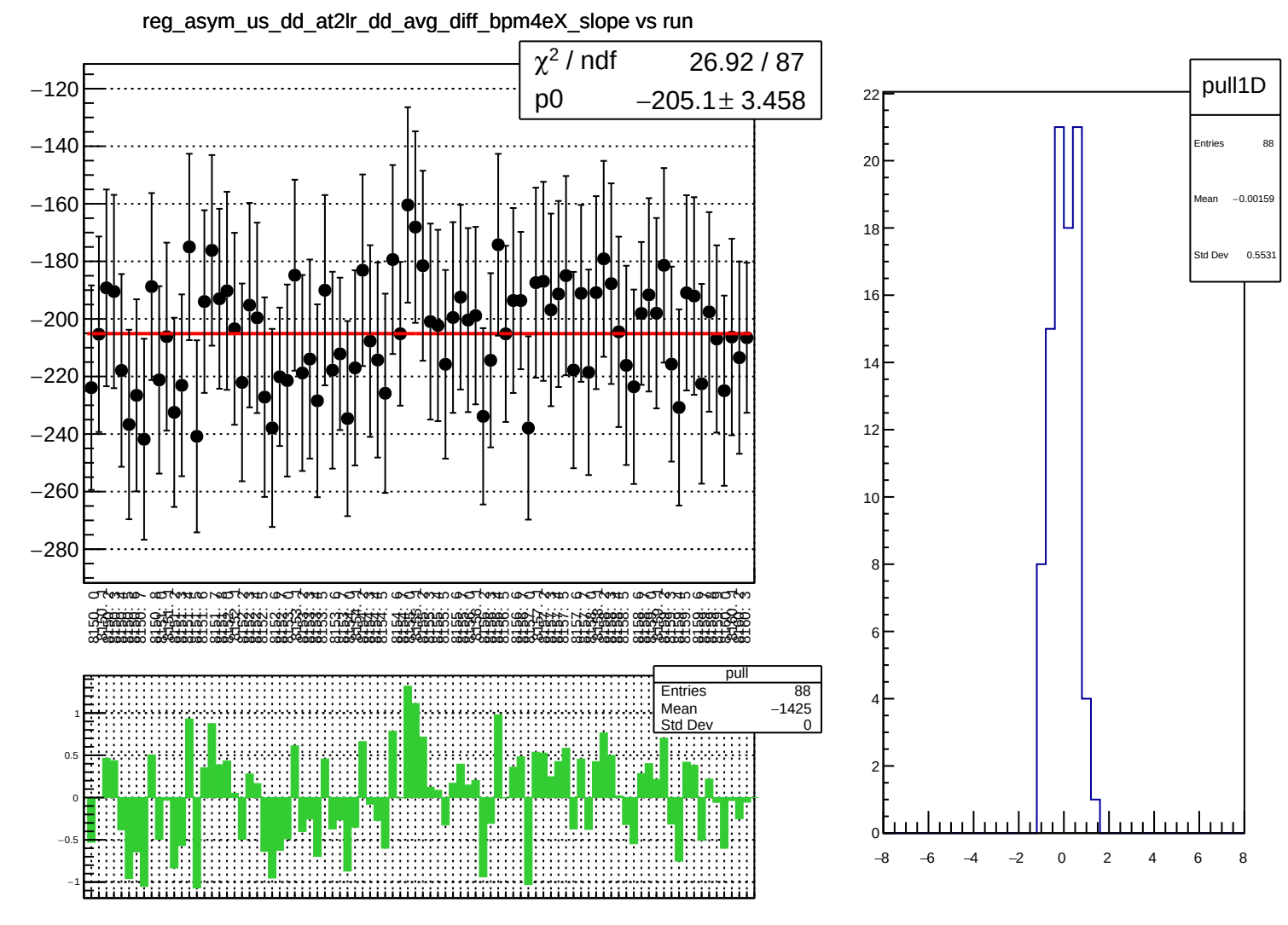

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.43 / 87
p0 −45.08 ± 1.66
0
−20
−40
−60
−80
−100
pull
Entries 88
Mean −1309
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001993
Std Dev 0.8287
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

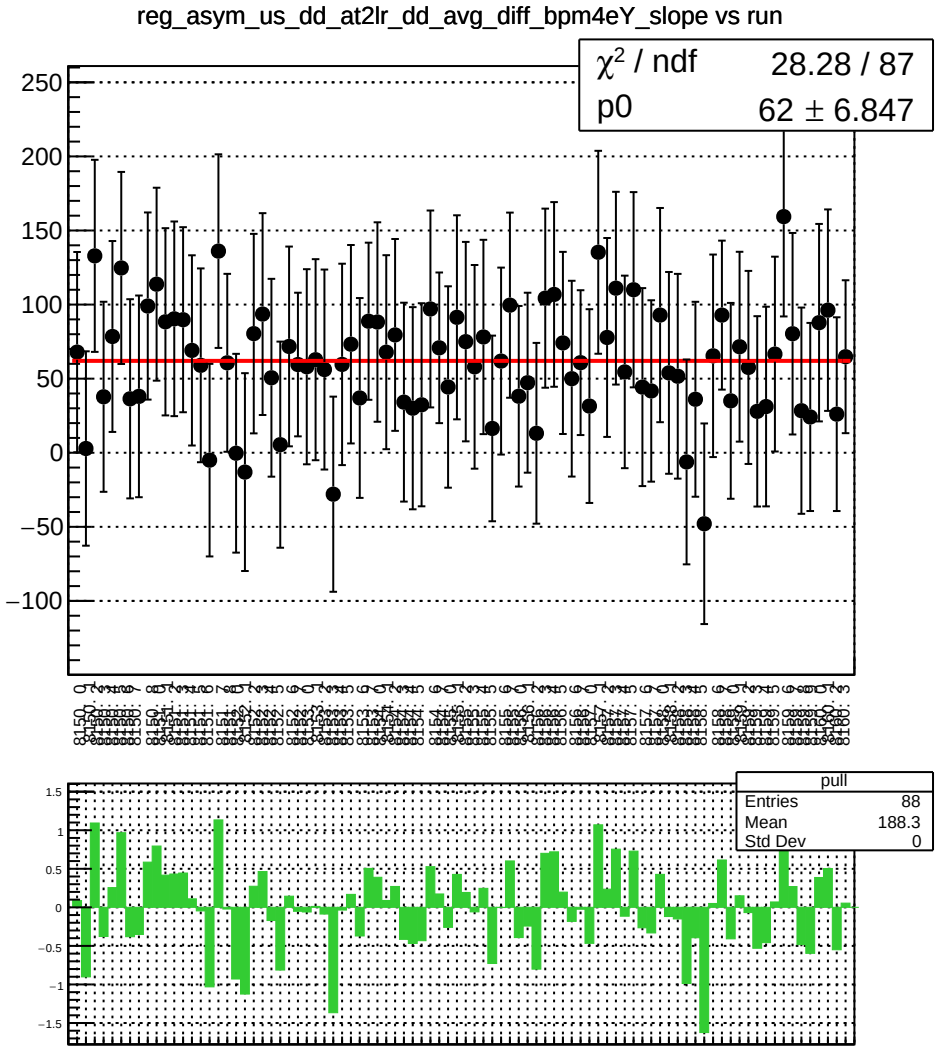

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 70.28 / 87
p0 16.69 ± 3.286
100
50
0
−50
−100
pull
Entries 88
Mean 202
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0102
Std Dev 0.8936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

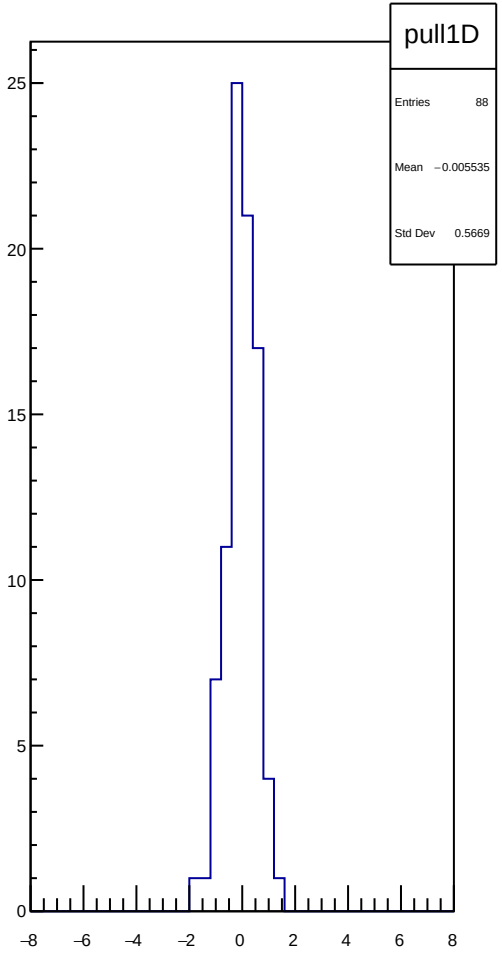

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 65.35 / 87
p0 −34.65 ± 0.1539
pull
Entries 88
Mean −298.2
Std Dev 0
pull1D
Entries 88
Mean 0.008016
Std Dev 0.8617

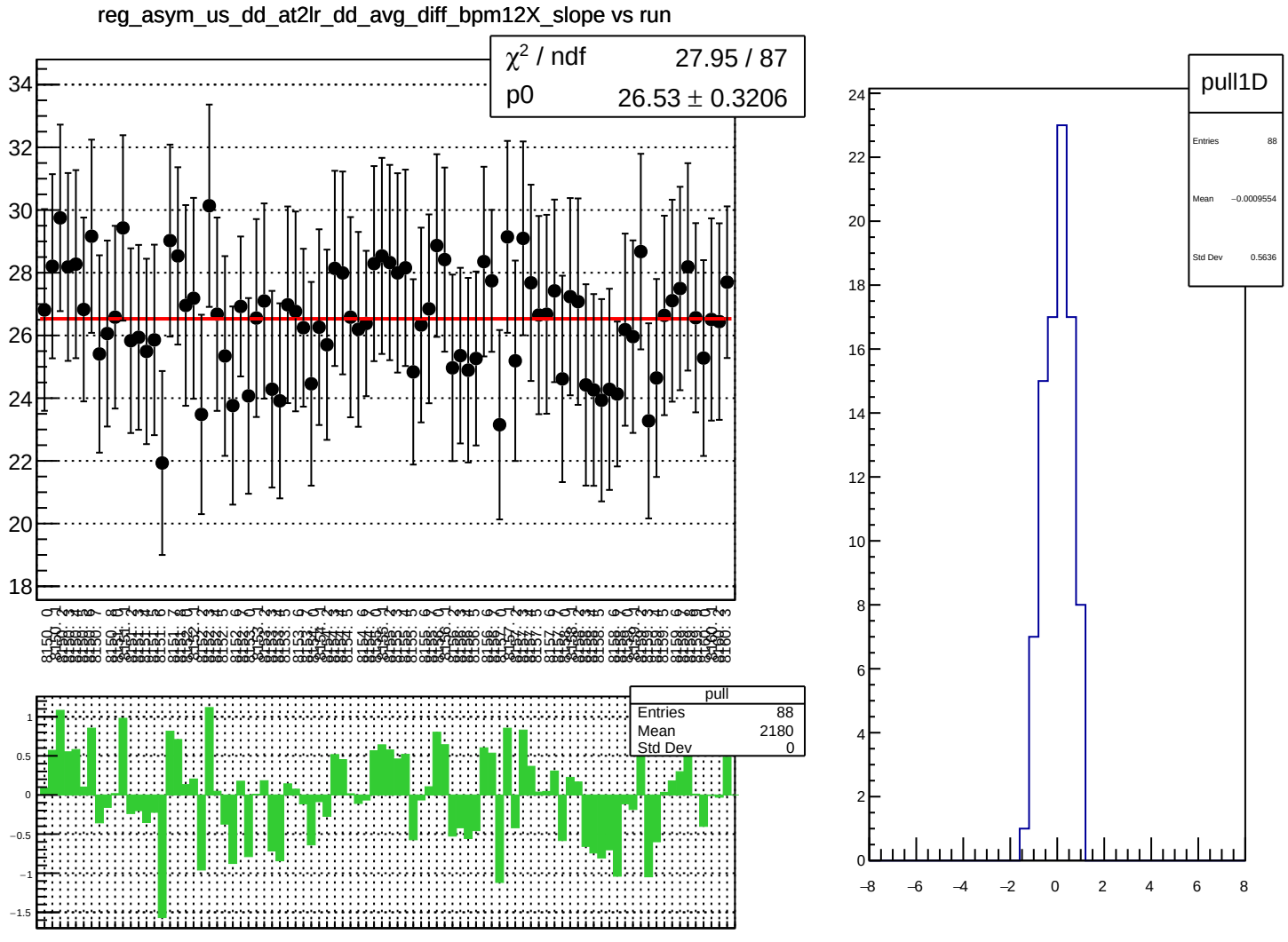

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 26.92 / 87
p0 65.67 ± 3.412
pull
Entries 88
Mean −997.8
Std Dev 0
pull1D
Entries 88
Mean 0.002608
Std Dev 0.5531

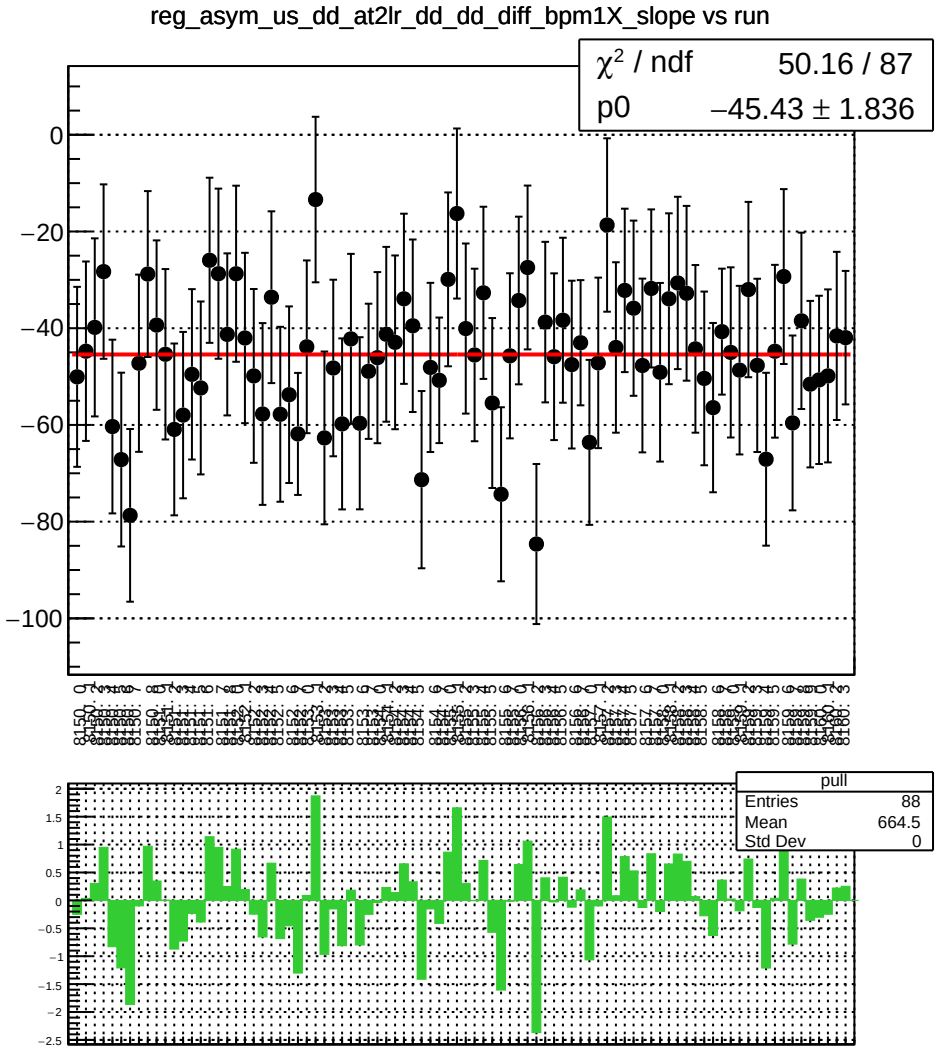

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.86 / 87
p0 −63.08 ± 6.39
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 206.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean 0.005891
Std Dev 0.5727
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

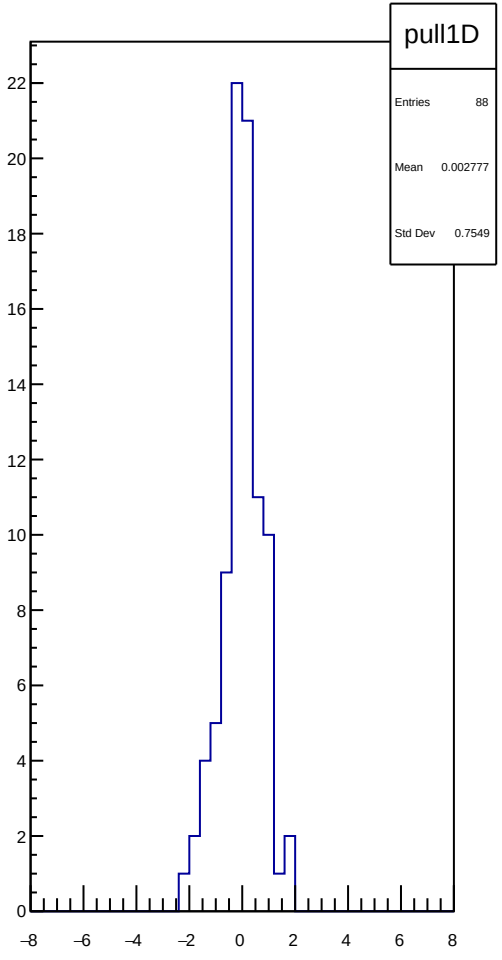

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.92 / 87
p0 −205.1 ± 3.458
pull
Entries 88
Mean −1425
Std Dev 0
pull1D
Entries 88
Mean −0.00159
Std Dev 0.5531

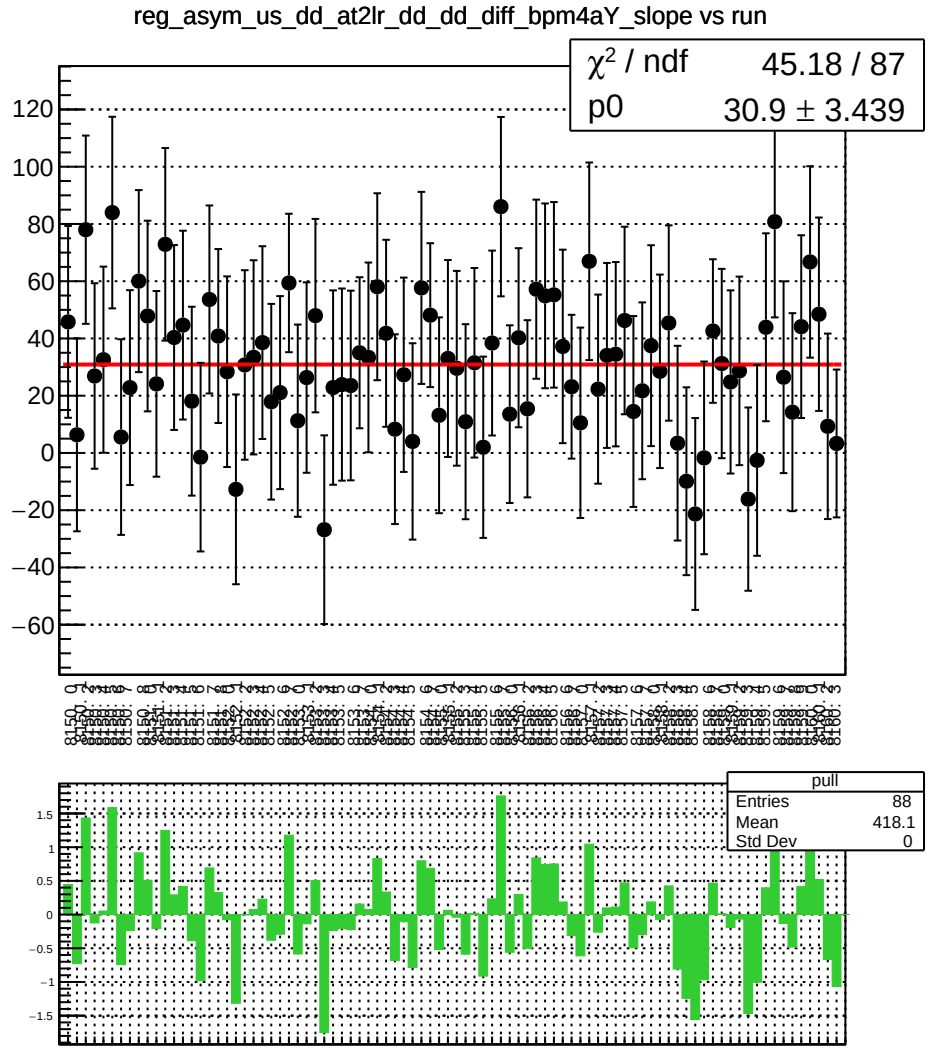

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.28 / 87
p0 62 ± 6.847
pull
Entries 88
Mean 188.3
Std Dev 0

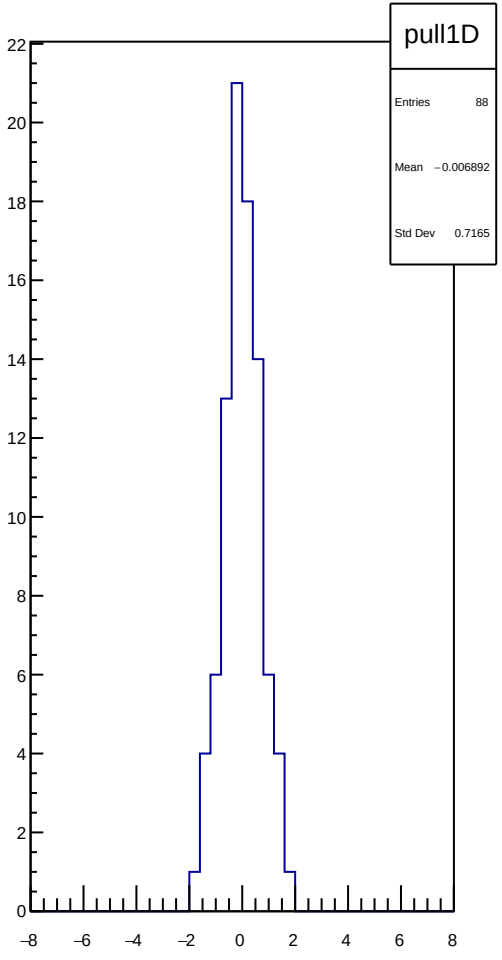

pull1D
Entries 88
Mean −0.005535
Std Dev 0.5669

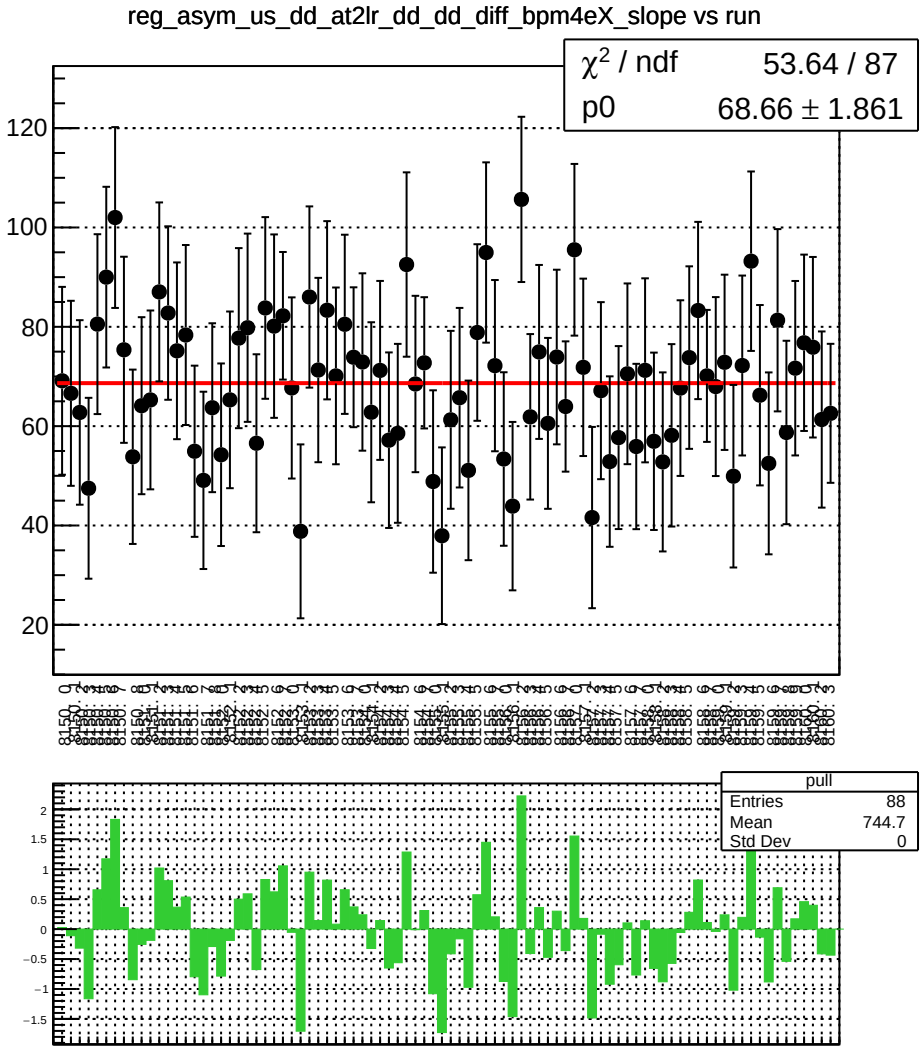

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 27.95 / 87
p0 26.53 ± 0.3206
pull
Entries 88
Mean 2180
Std Dev 0
pull1D
Entries 88
Mean −0.0009554
Std Dev 0.5636

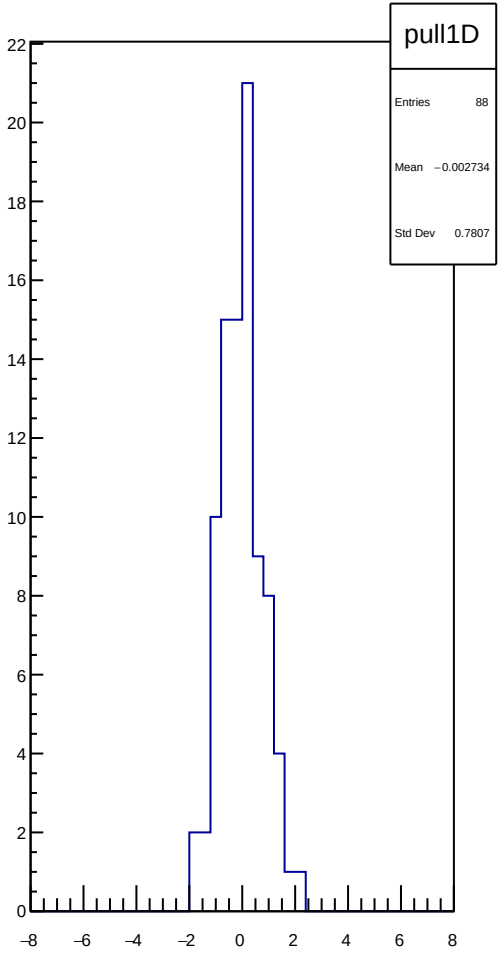

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 50.16 / 87
p0 −45.43 ± 1.836
pull
Entries 88
Mean 664.5
Std Dev 0

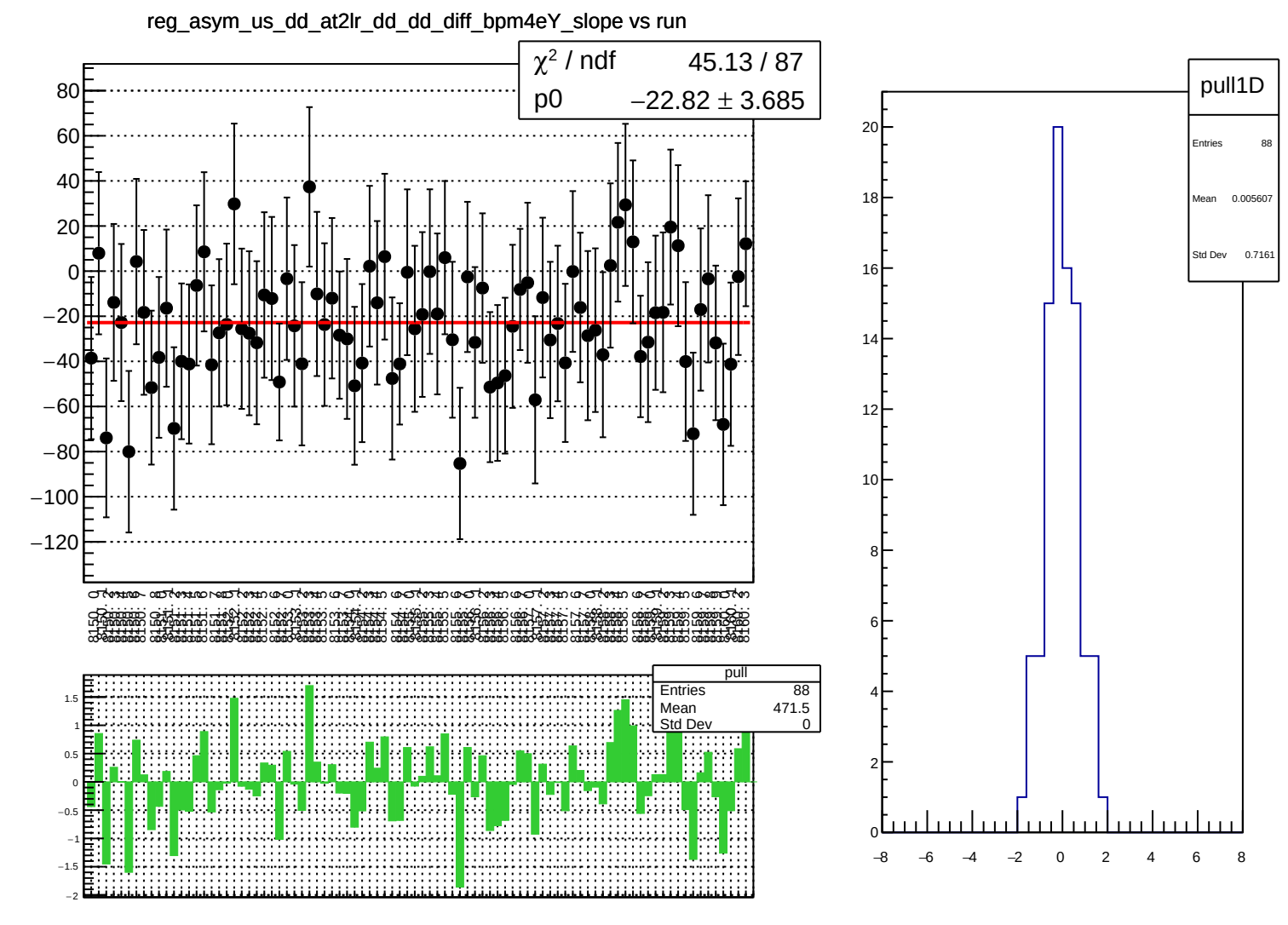

pull1D
Entries 88
Mean 0.002777
Std Dev 0.7549

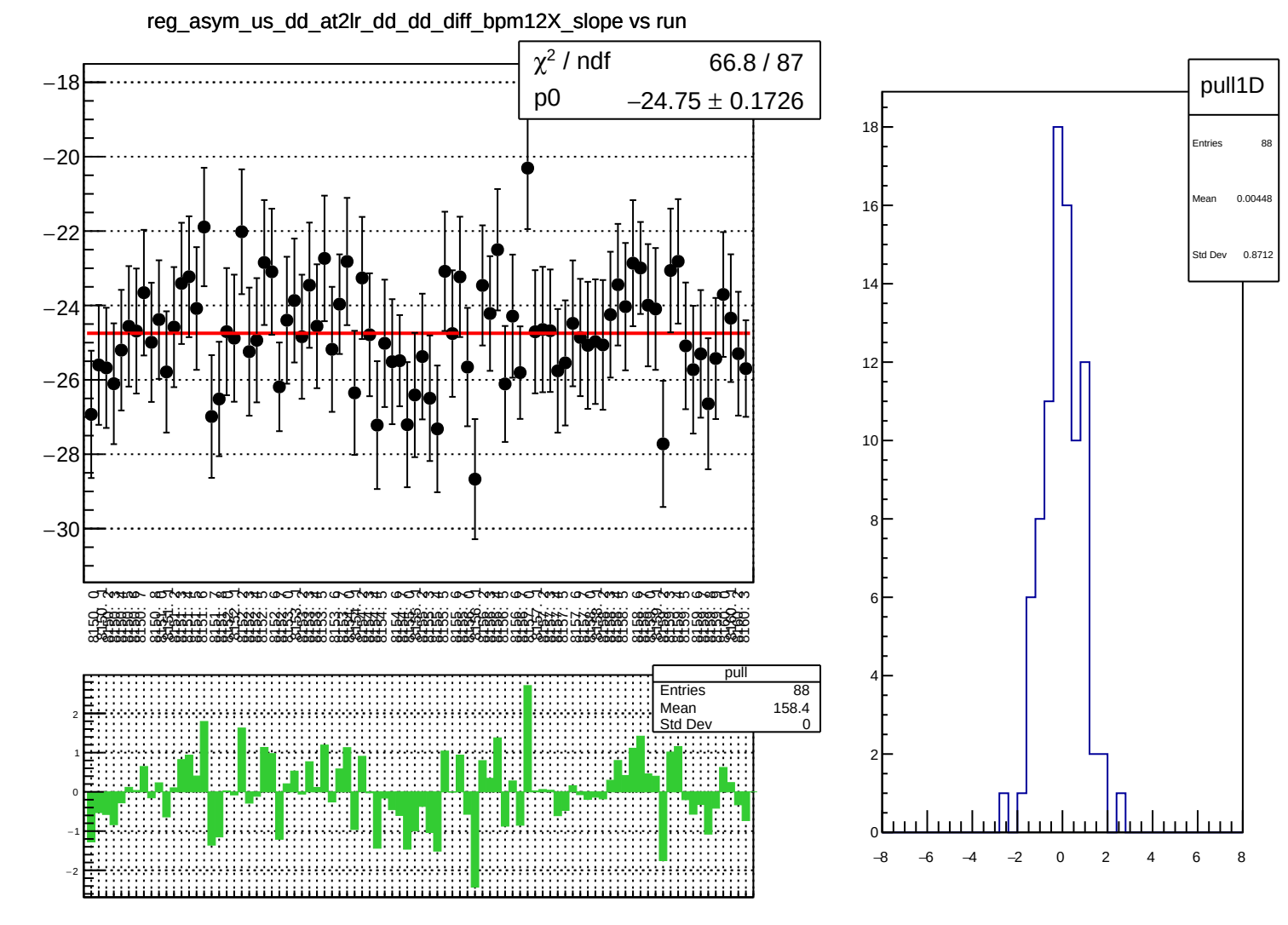

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.18 / 87
p0 30.9 ± 3.439
pull
Entries 88
Mean 418.1
Std Dev 0

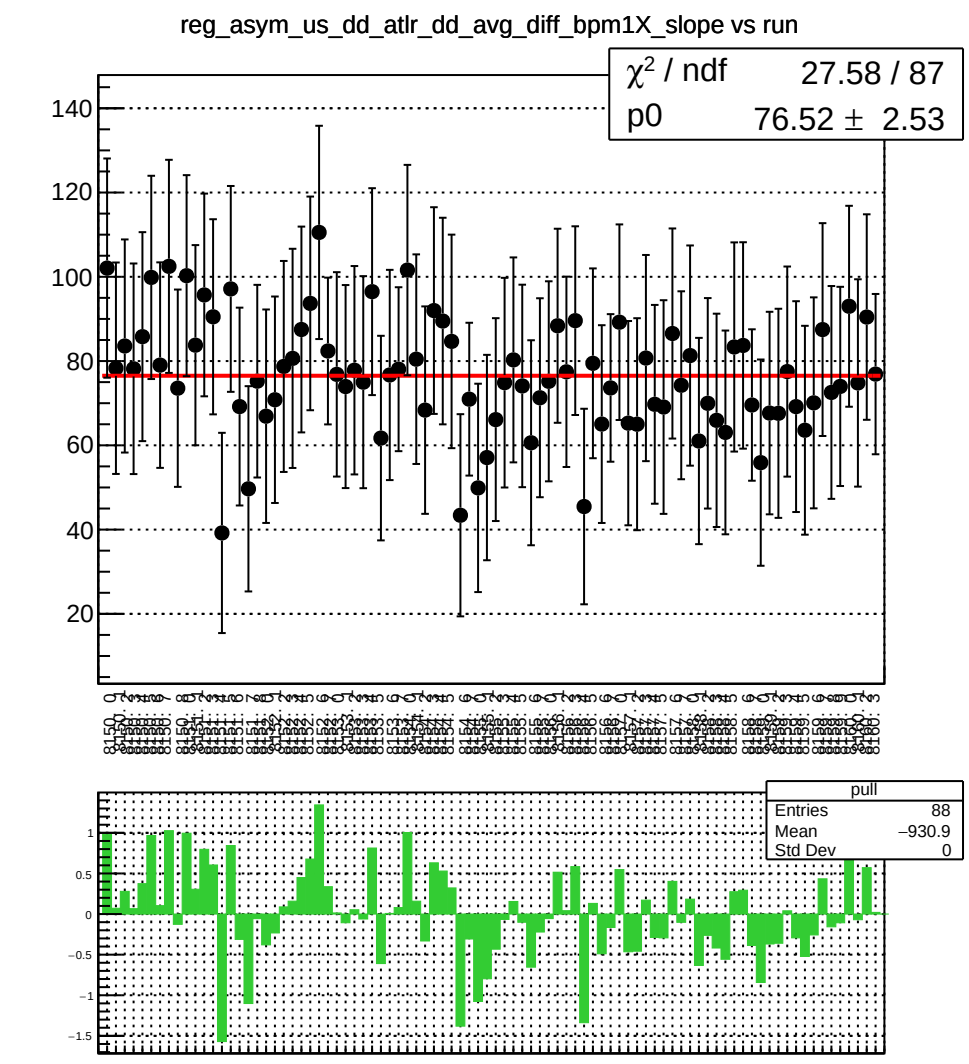

pull1D
Entries 88
Mean −0.006892
Std Dev 0.7165

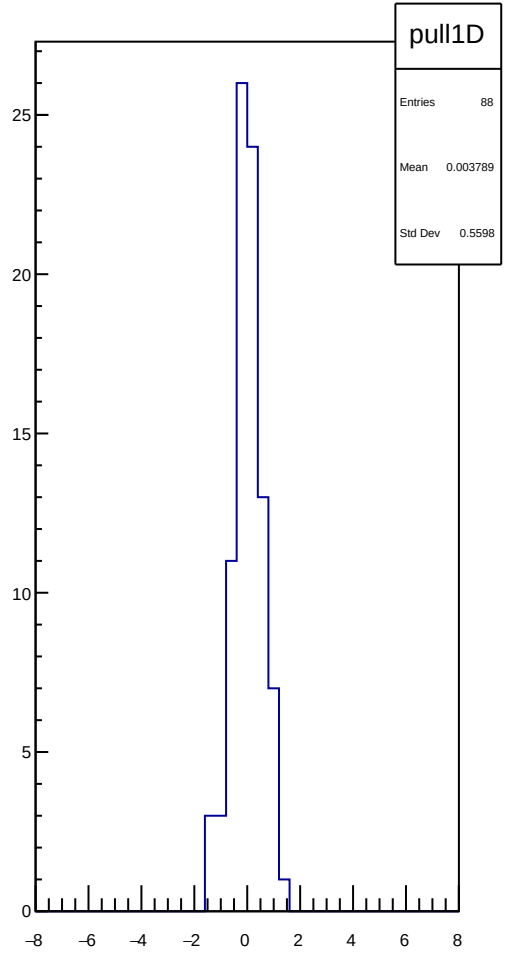

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 53.64 / 87
p0 68.66 ± 1.861
pull
Entries 88
Mean 744.7
Std Dev 0

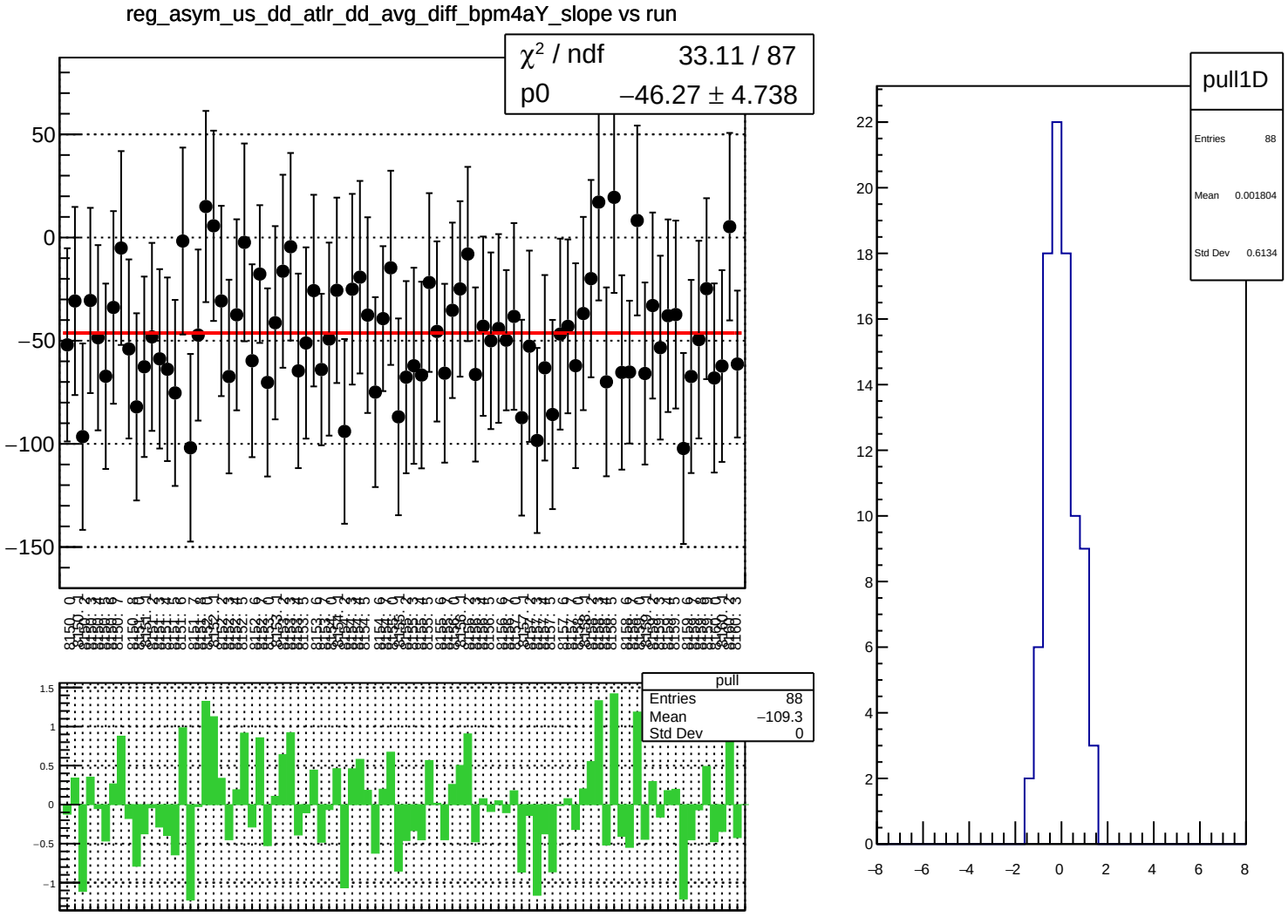

pull1D
Entries 88
Mean −0.002734
Std Dev 0.7807

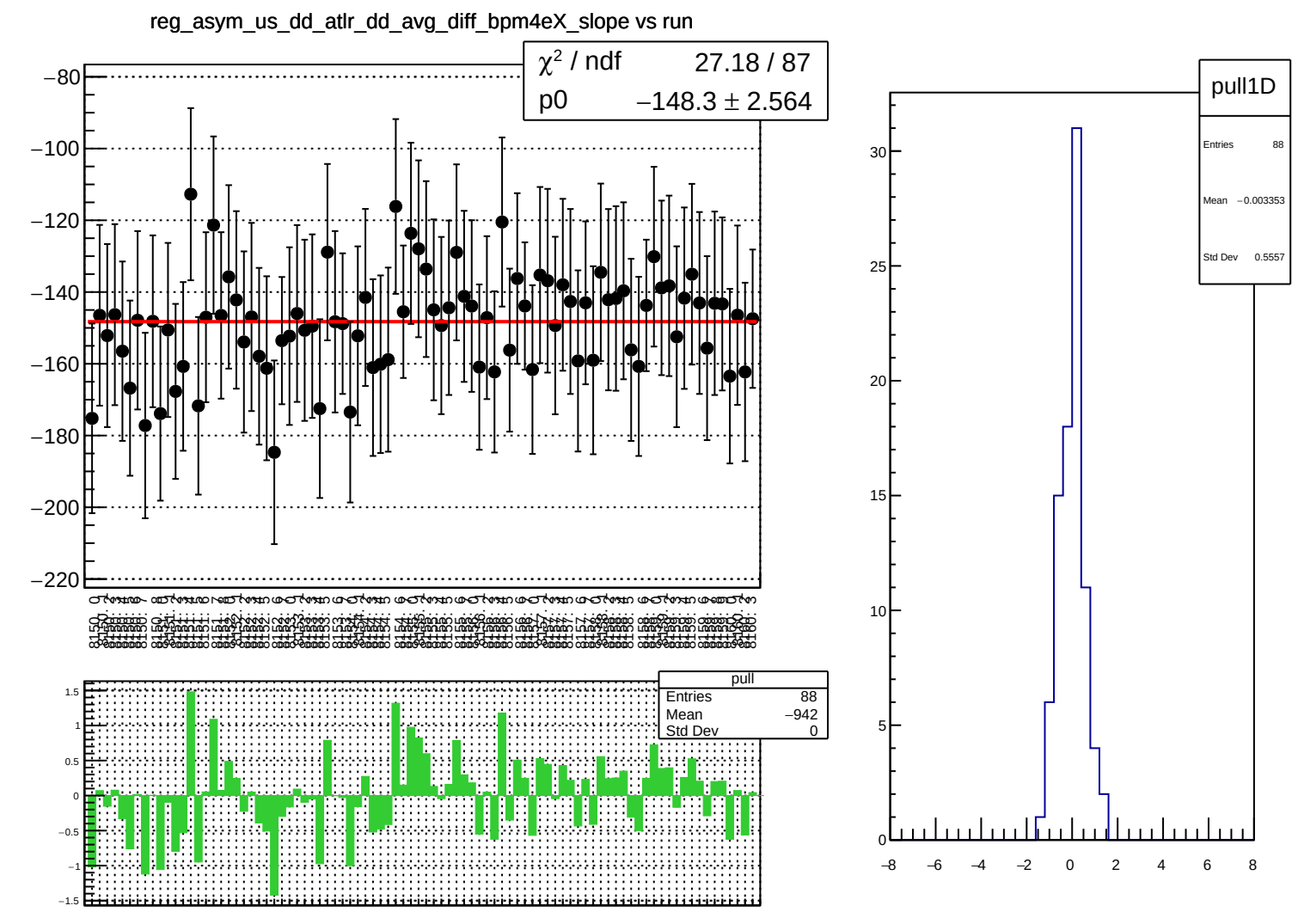

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.13 / 87
p0 −22.82 ± 3.685
pull
Entries 88
Mean 471.5
Std Dev 0
pull1D
Entries 88
Mean 0.005607
Std Dev 0.7161

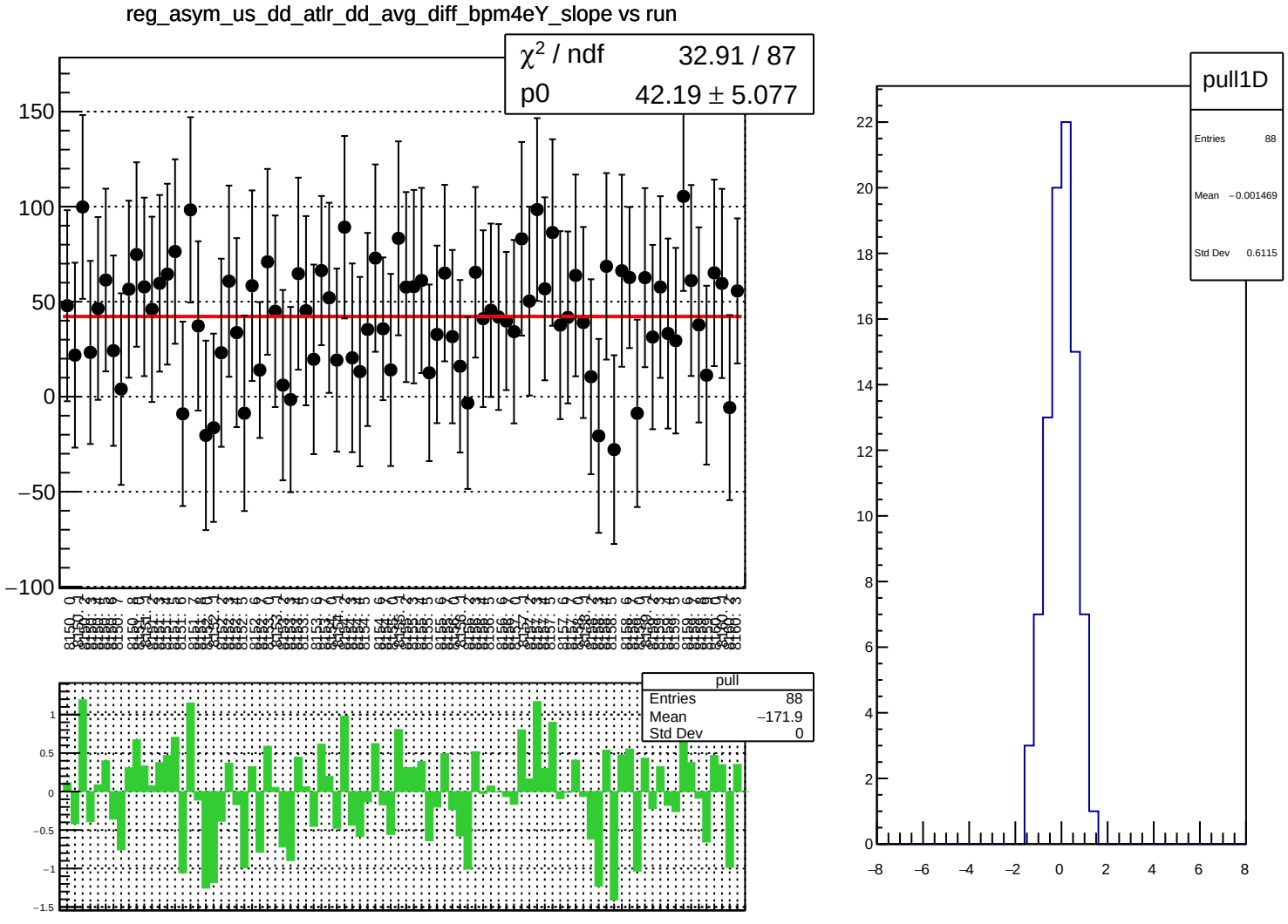

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 66.8 / 87
p0 −24.75 ± 0.1726
pull
Entries 88
Mean 158.4
Std Dev 0
pull1D
Entries 88
Mean 0.00448
Std Dev 0.8712

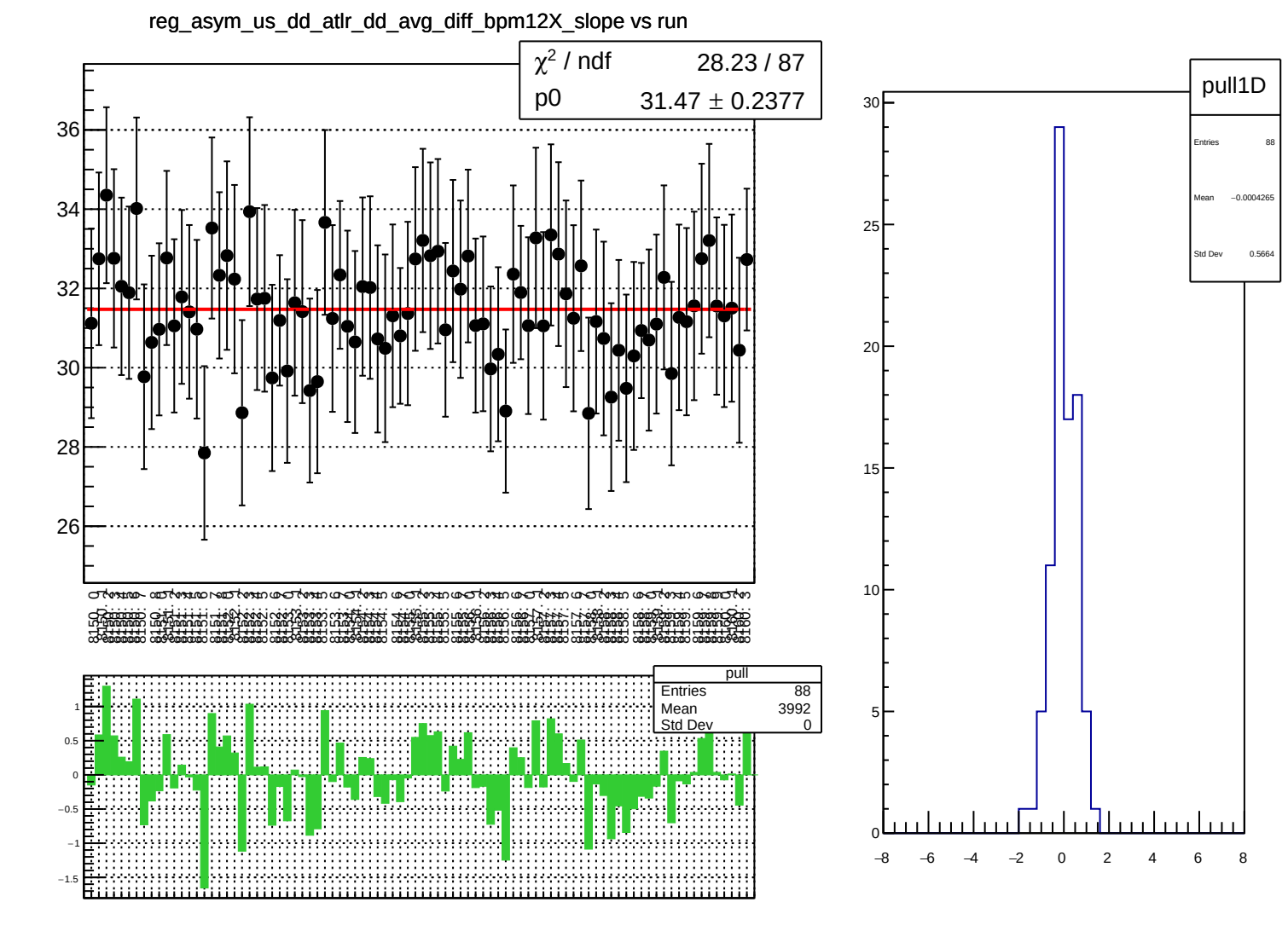

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 27.58 / 87
p0 76.52 ± 2.53
pull
Entries 88
Mean −930.9
Std Dev 0

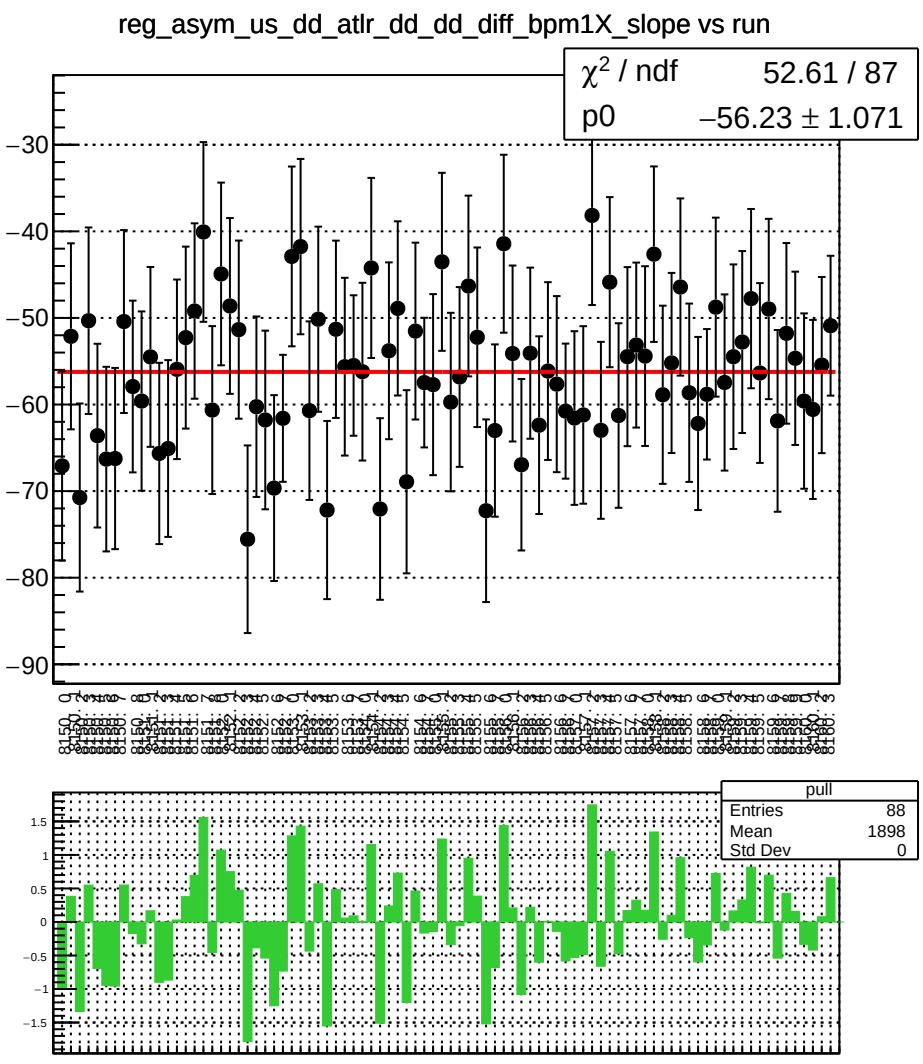

pull1D
Entries 88
Mean 0.003789
Std Dev 0.5598

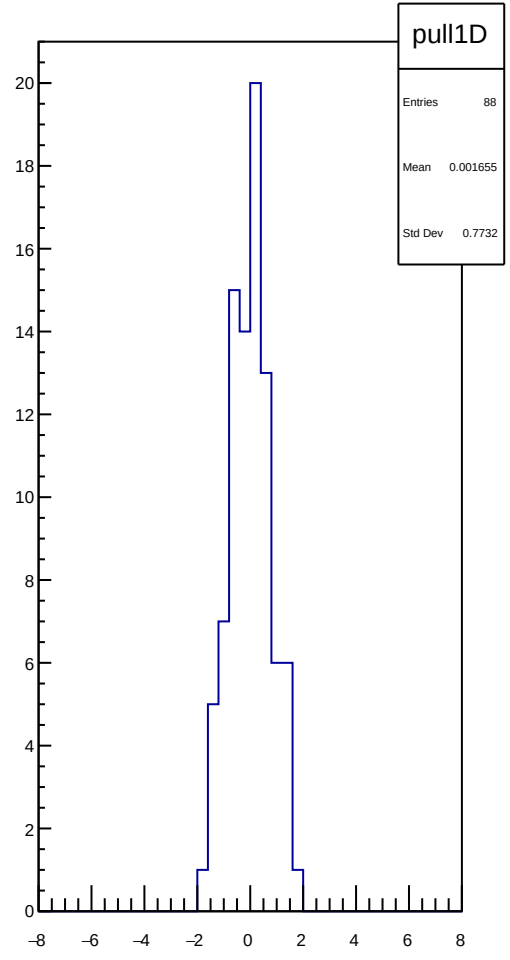

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.11 / 87
p0 −46.27 ± 4.738
50
0
−50
−100
−150
pull
Entries 88
Mean −109.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.001804
Std Dev 0.6134
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

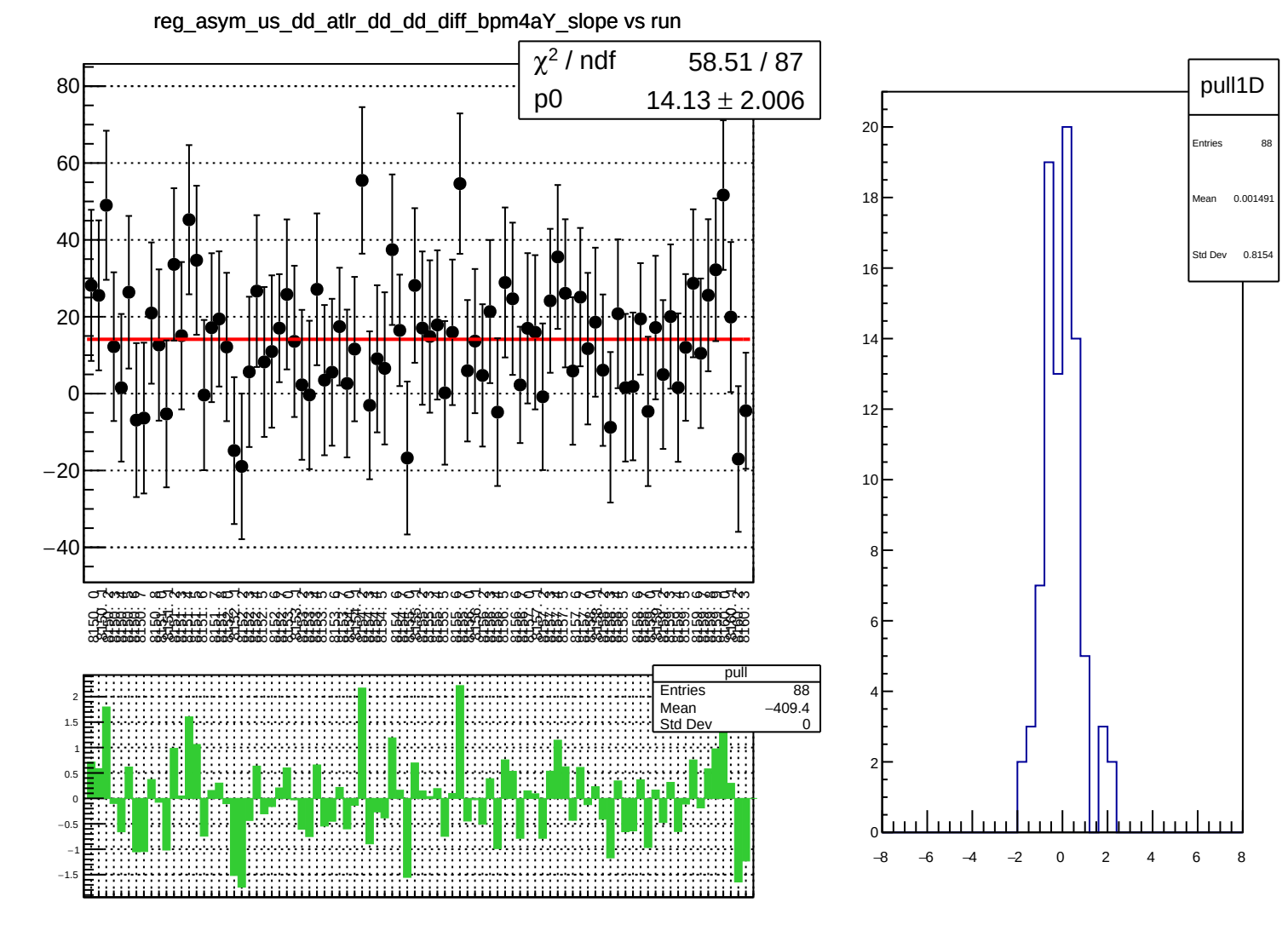

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.18 / 87
p0 −148.3 ± 2.564
pull
Entries 88
Mean −942
Std Dev 0
pull1D
Entries 88
Mean −0.003353
Std Dev 0.5557

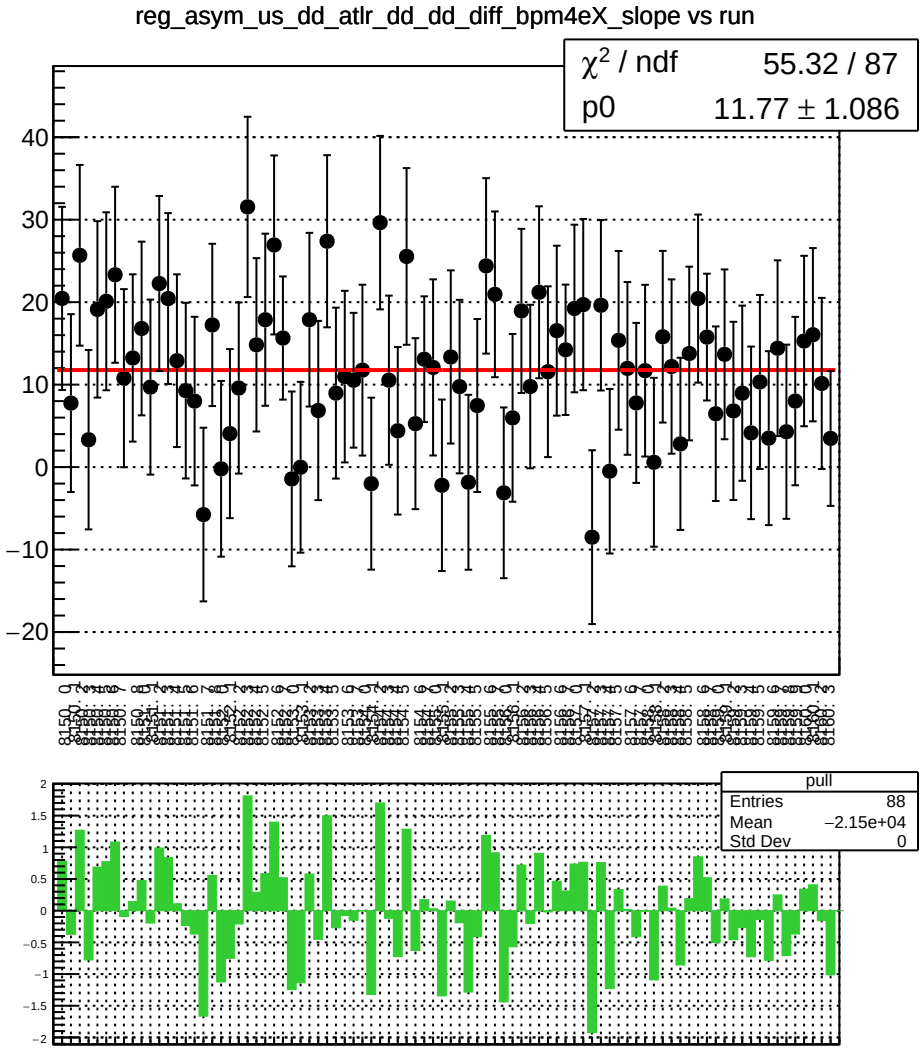

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.91 / 87
p0 42.19 ± 5.077
150
100
50
0
−50
−100
pull
Entries 88
Mean −171.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −0.001469
Std Dev 0.6115
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

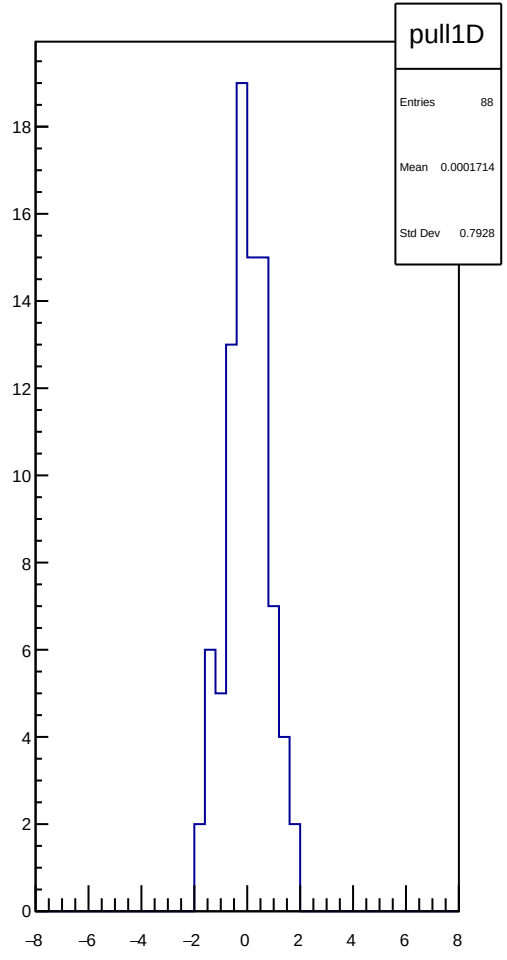

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 28.23 / 87
p0 31.47 ± 0.2377
pull
Entries 88
Mean 3992
Std Dev 0
pull1D
Entries 88
Mean −0.0004265
Std Dev 0.5664

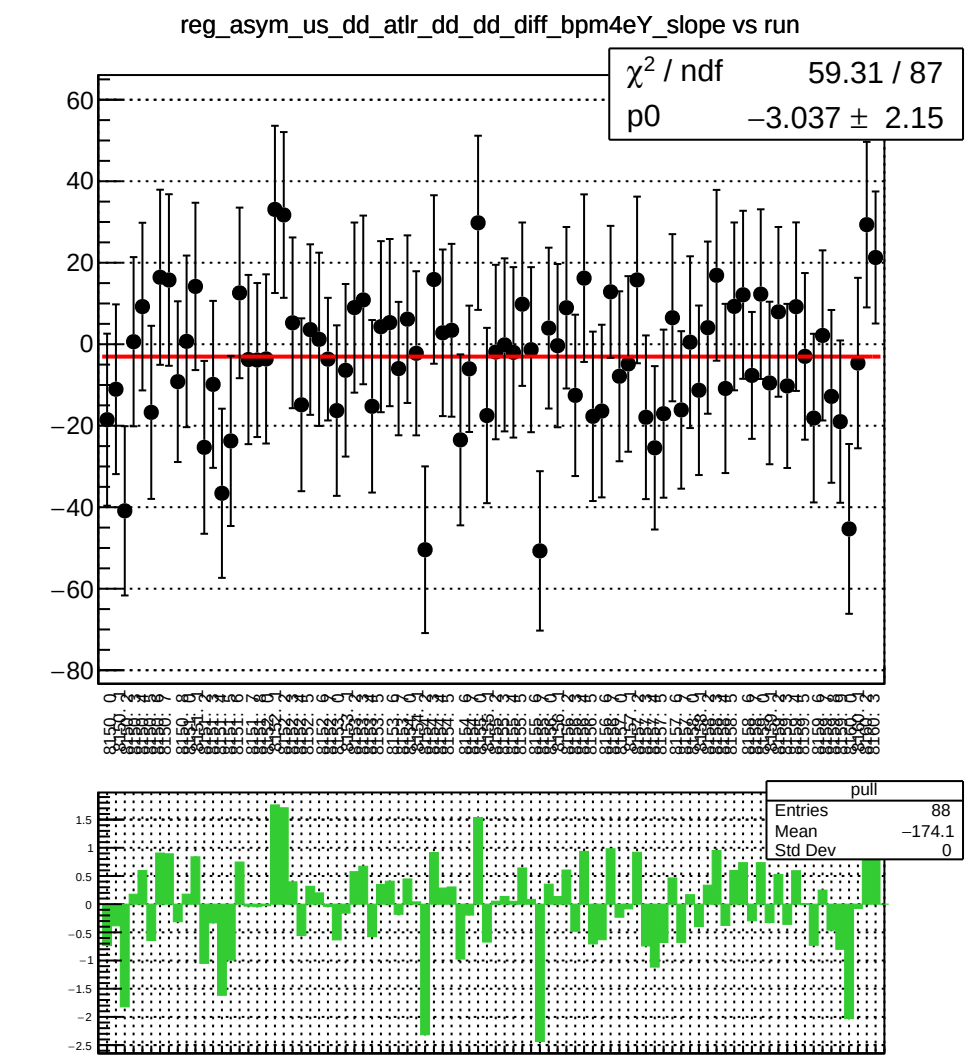

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 52.61 / 87
p0 −56.23 ± 1.071
pull
Entries 88
Mean 1898
Std Dev 0

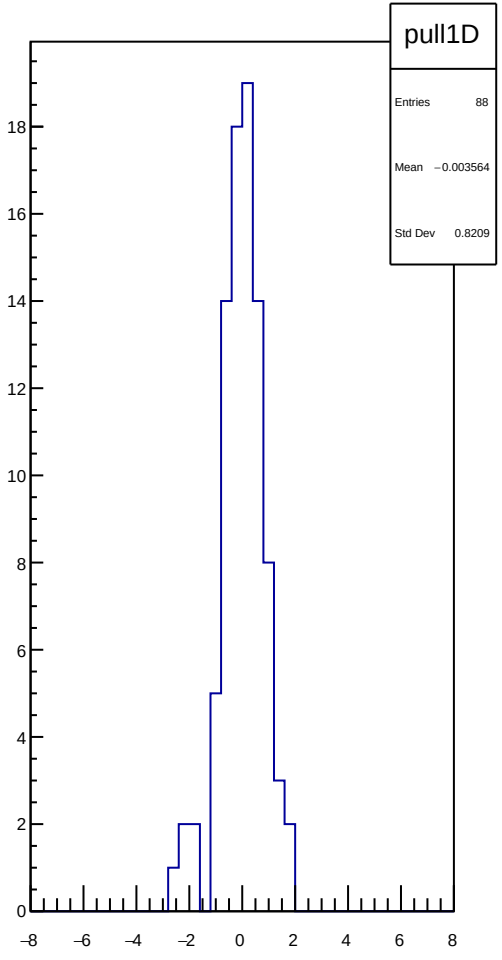

pull1D
Entries 88
Mean 0.001655
Std Dev 0.7732

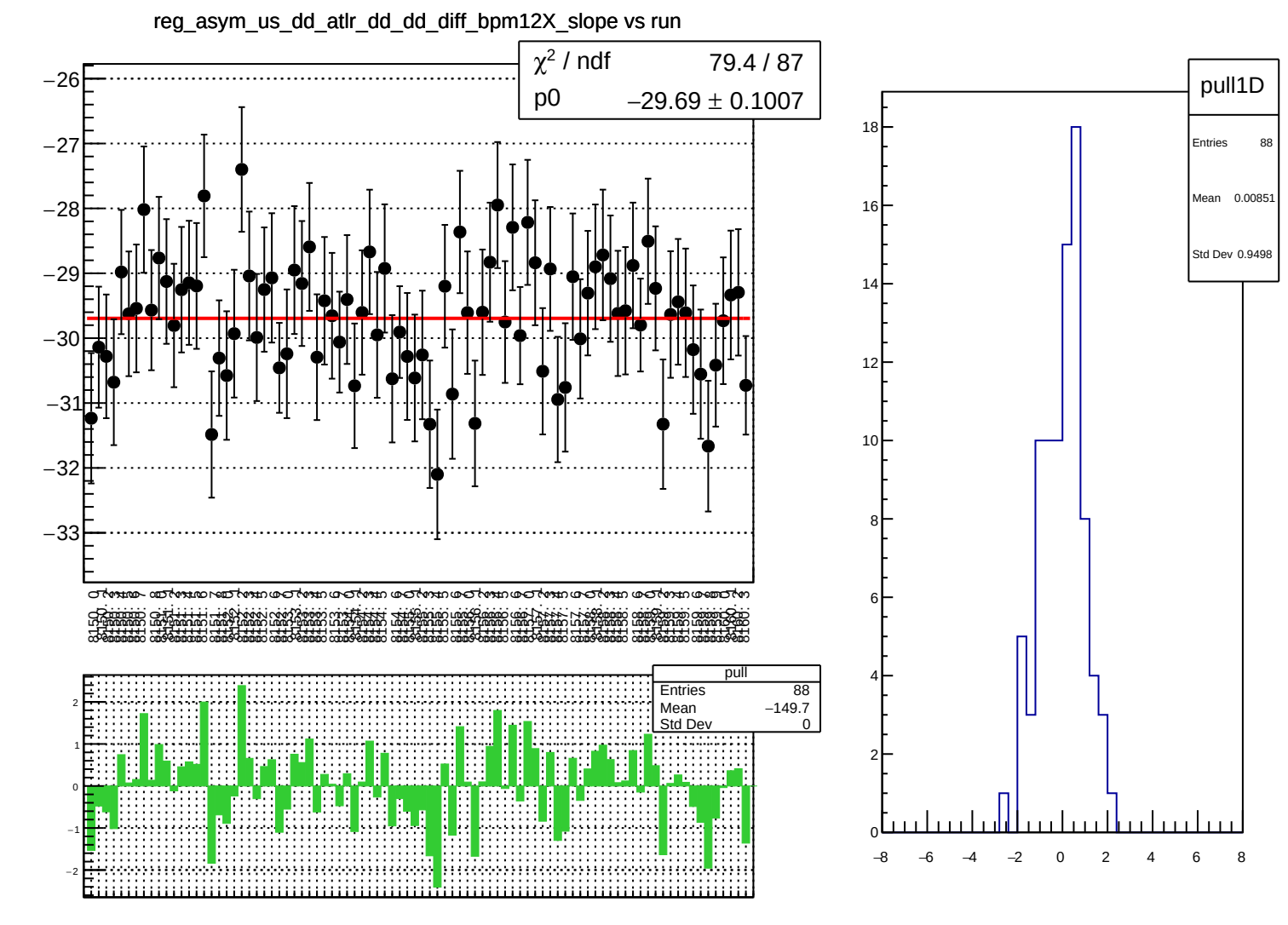

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.51 / 87
p0 14.13 ± 2.006
pull
Entries 88
Mean −409.4
Std Dev 0
pull1D
Entries 88
Mean 0.001491
Std Dev 0.8154

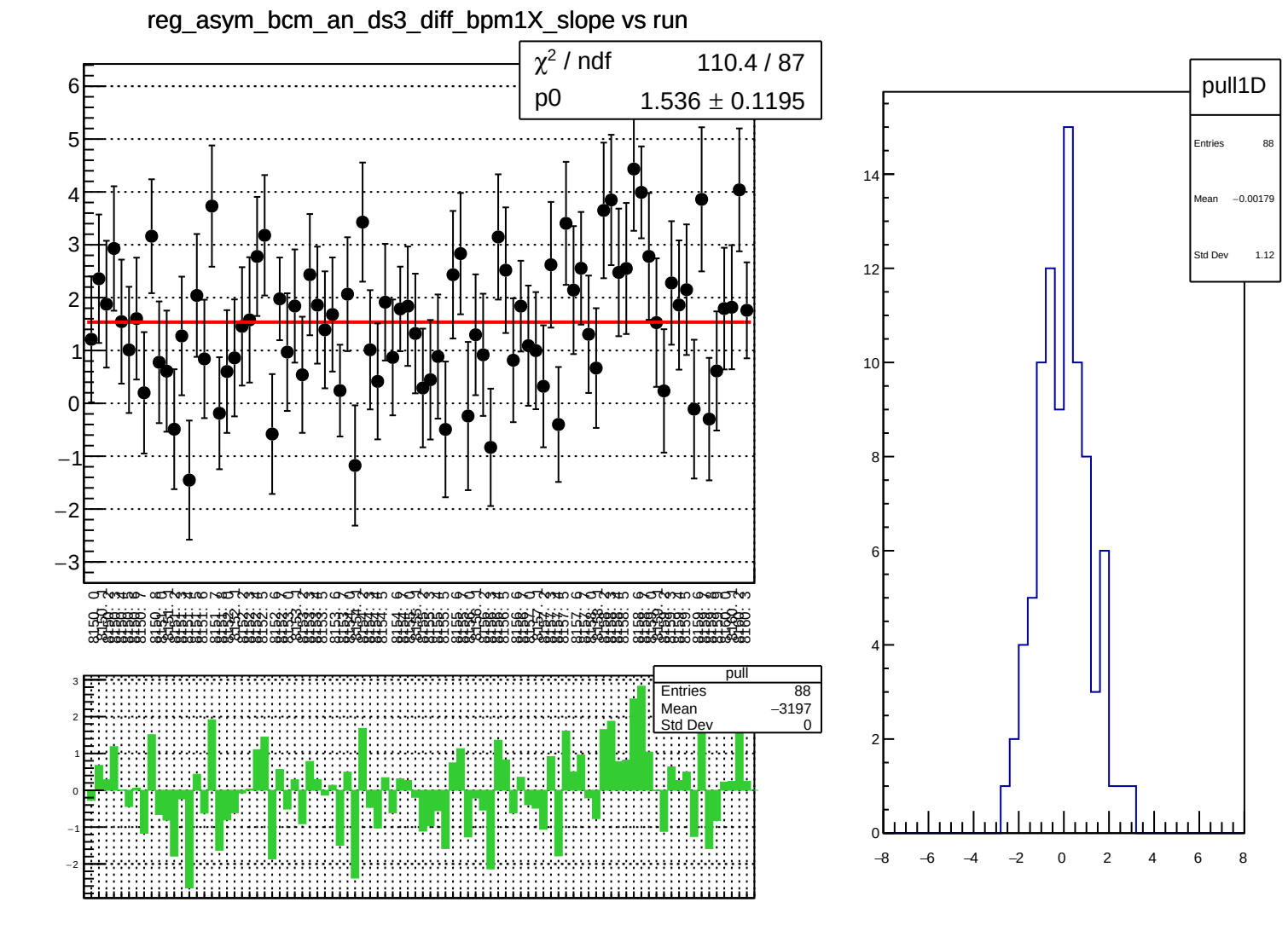

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.32 / 87
p0 11.77 ± 1.086
pull
Entries 88
Mean −2.15e+04
Std Dev 0

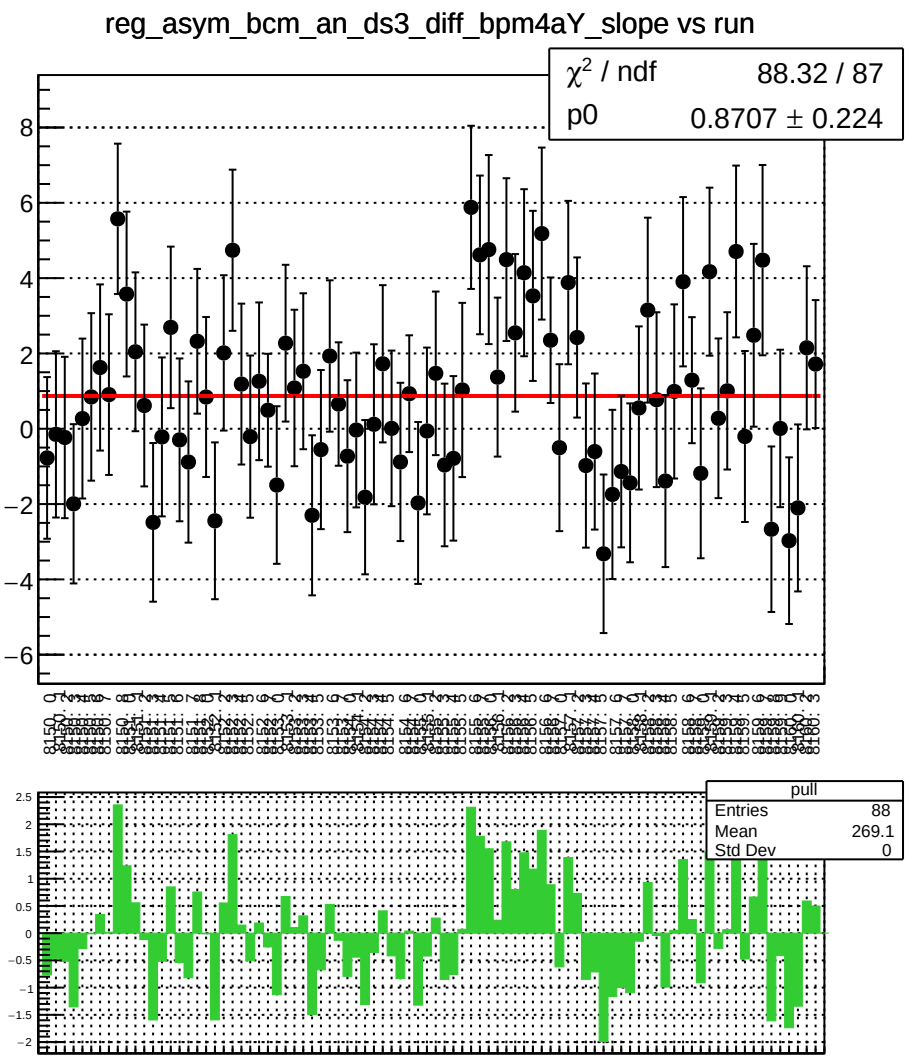

pull1D
Entries 88
Mean 0.0001714
Std Dev 0.7928

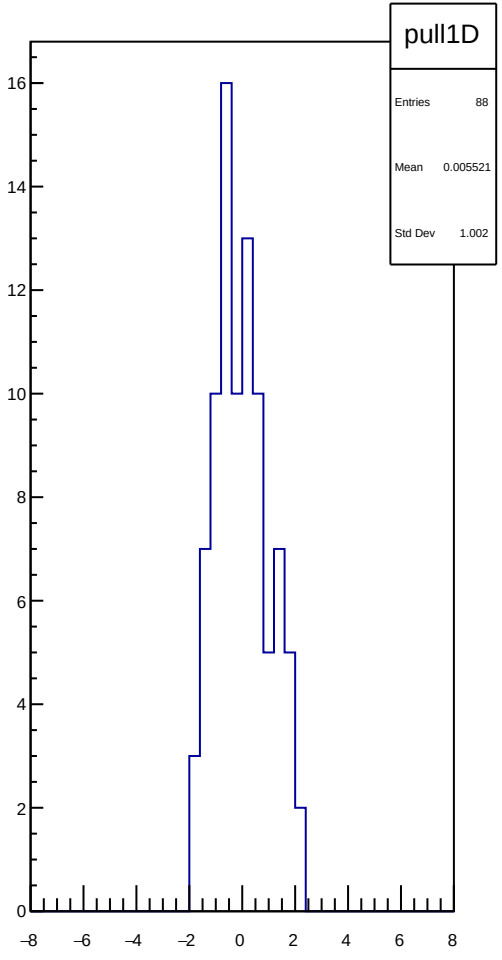

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.31 / 87
p0 −3.037 ± 2.15
pull
Entries 88
Mean −174.1
Std Dev 0

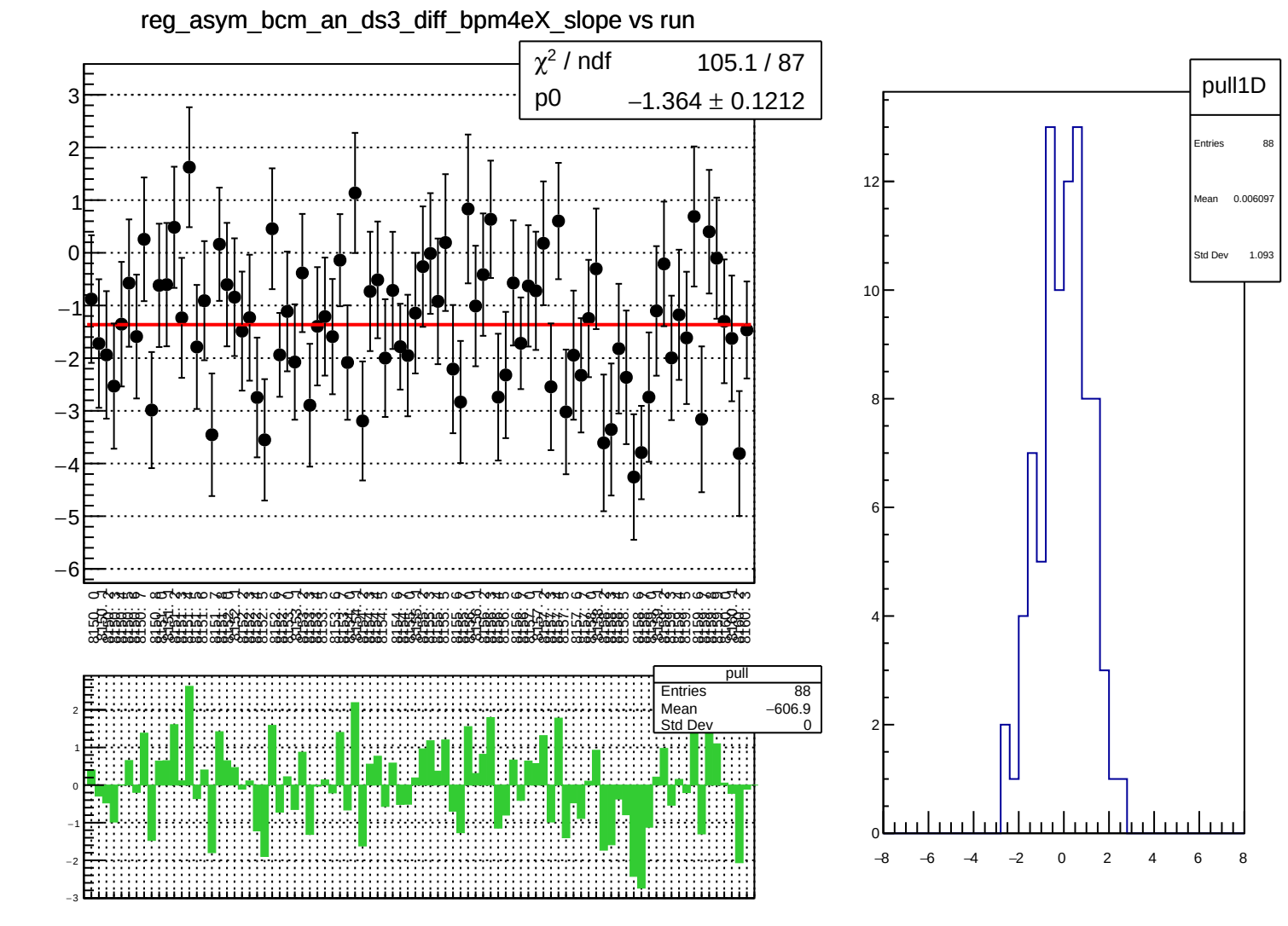

pull1D
Entries 88
Mean −0.003564
Std Dev 0.8209

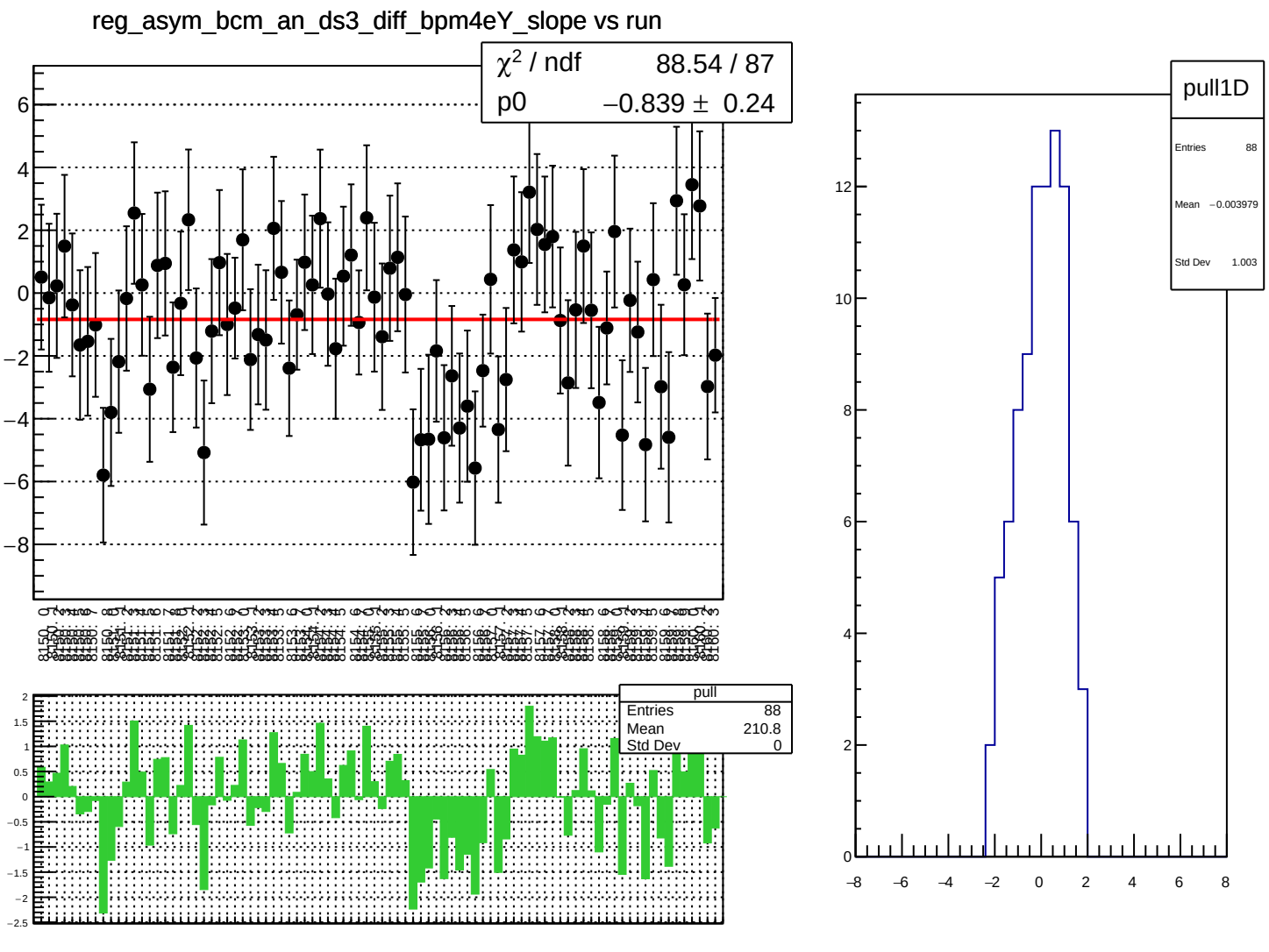

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 79.4 / 87
p0 −29.69 ± 0.1007
pull
Entries 88
Mean −149.7
Std Dev 0
pull1D
Entries 88
Mean 0.00851
Std Dev 0.9498

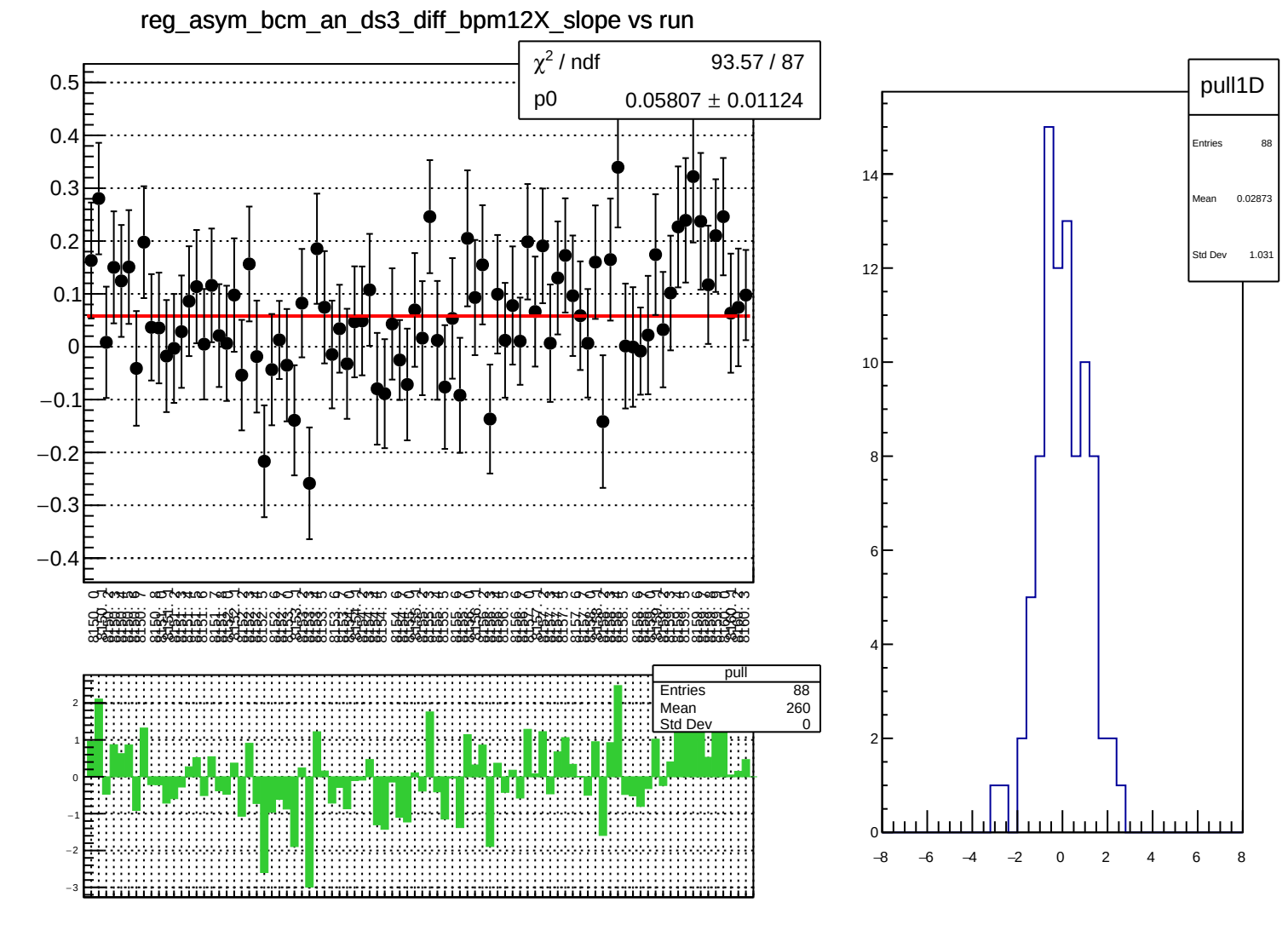

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 110.4 / 87
p0 1.536 ± 0.1195
pull
Entries 88
Mean −3197
Std Dev 0
pull1D
Entries 88
Mean −0.00179
Std Dev 1.12

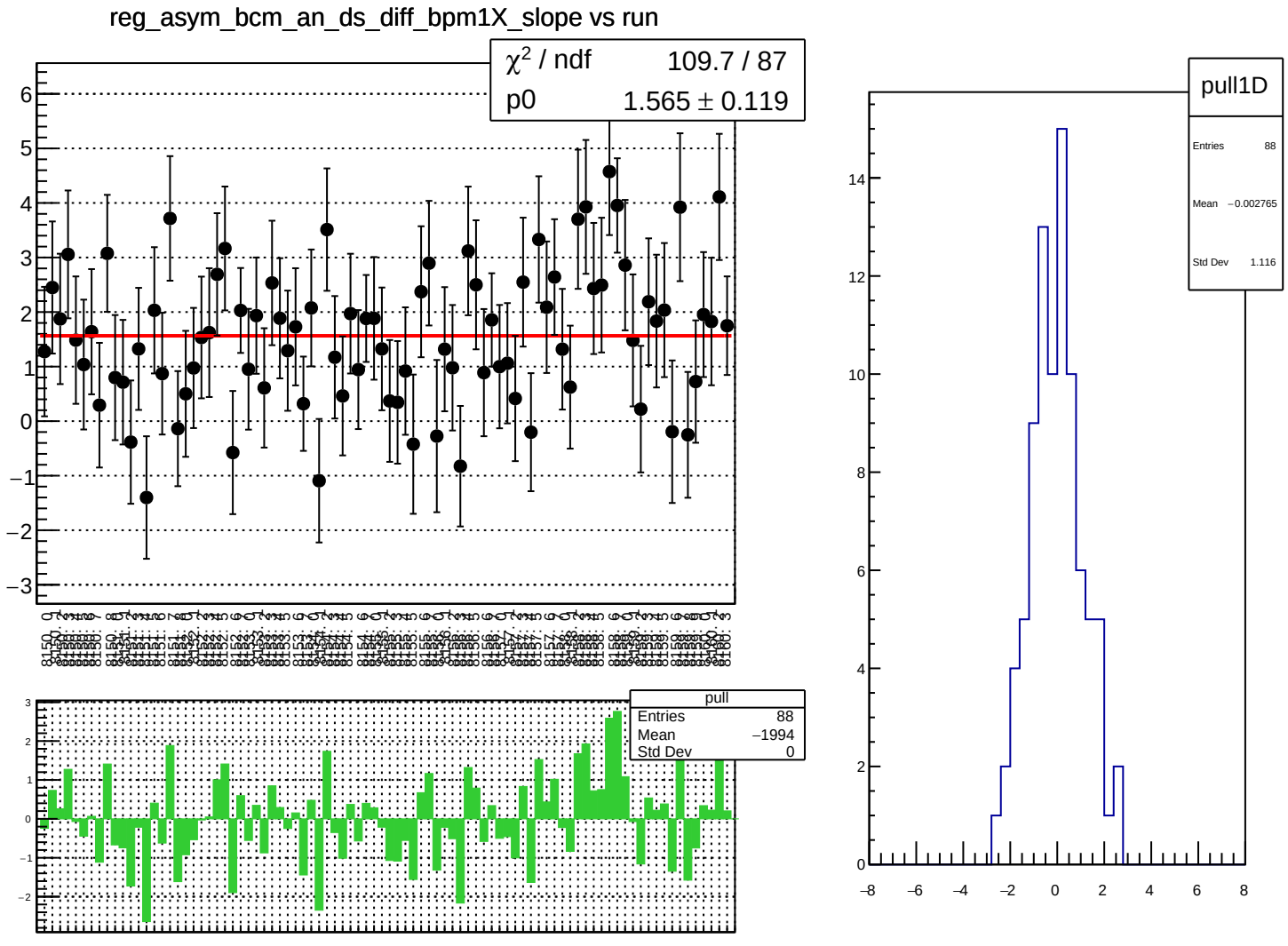

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 88.32 / 87
p0 0.8707 ± 0.224
pull
Entries 88
Mean 269.1
Std Dev 0

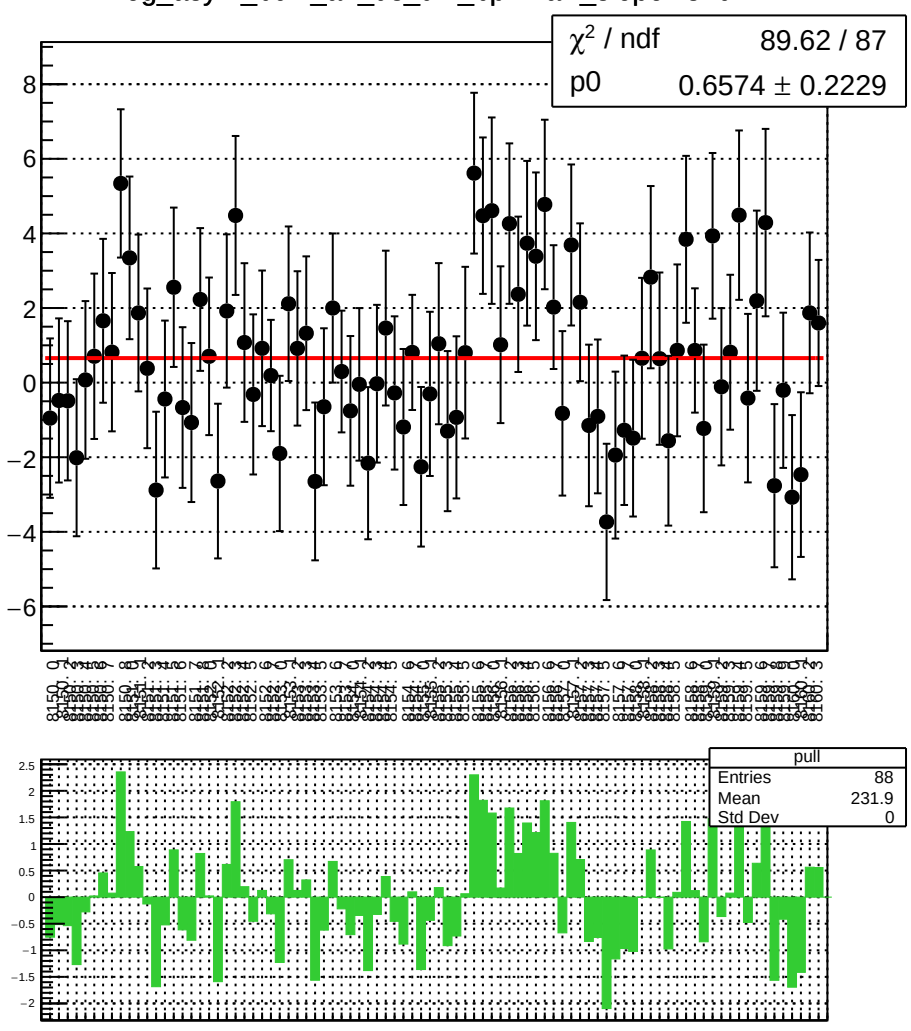

pull1D
Entries 88
Mean 0.005521
Std Dev 1.002

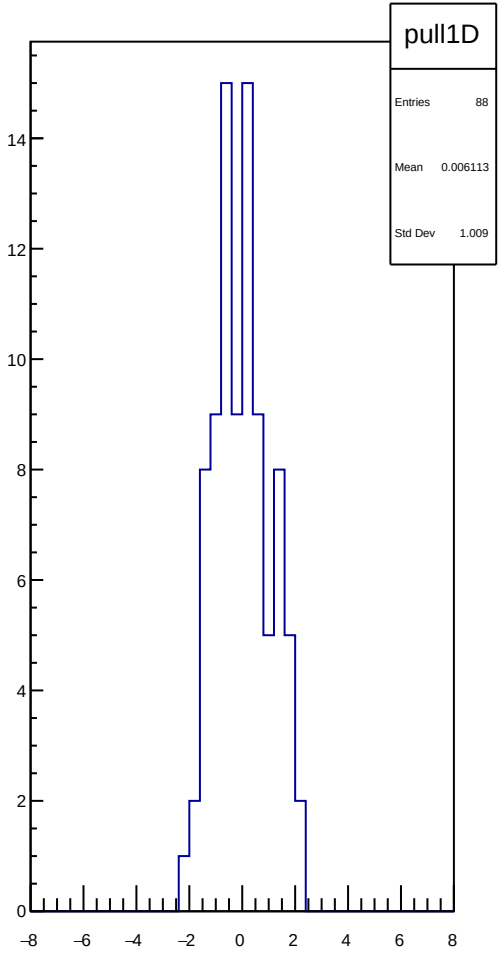

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 105.1 / 87
p0 −1.364 ± 0.1212
pull
Entries 88
Mean −606.9
Std Dev 0
pull1D
Entries 88
Mean 0.006097
Std Dev 1.093

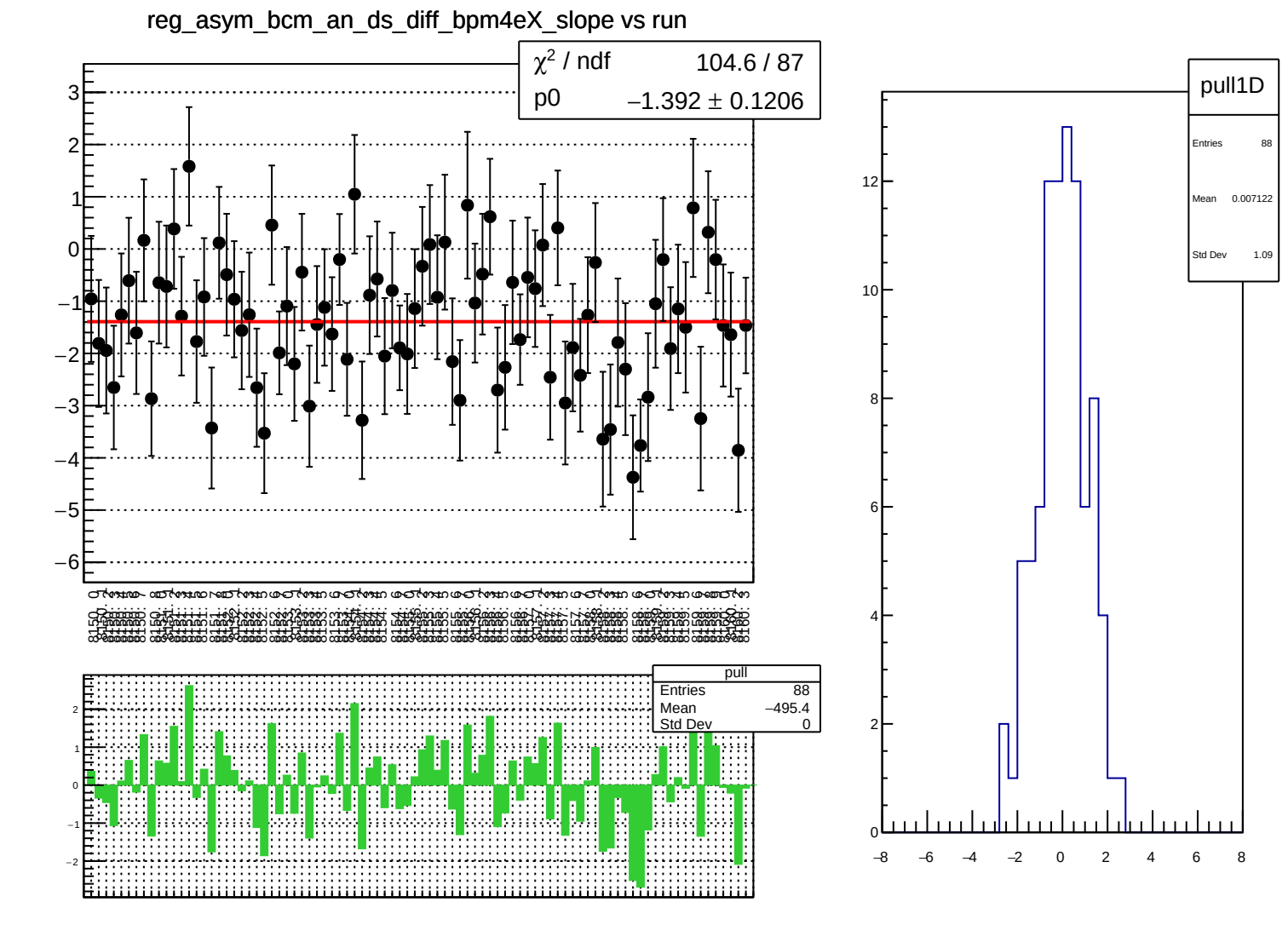

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 88.54 / 87
p0 −0.839 ± 0.24
pull
Entries 88
Mean 210.8
Std Dev 0
pull1D
Entries 88
Mean −0.003979
Std Dev 1.003

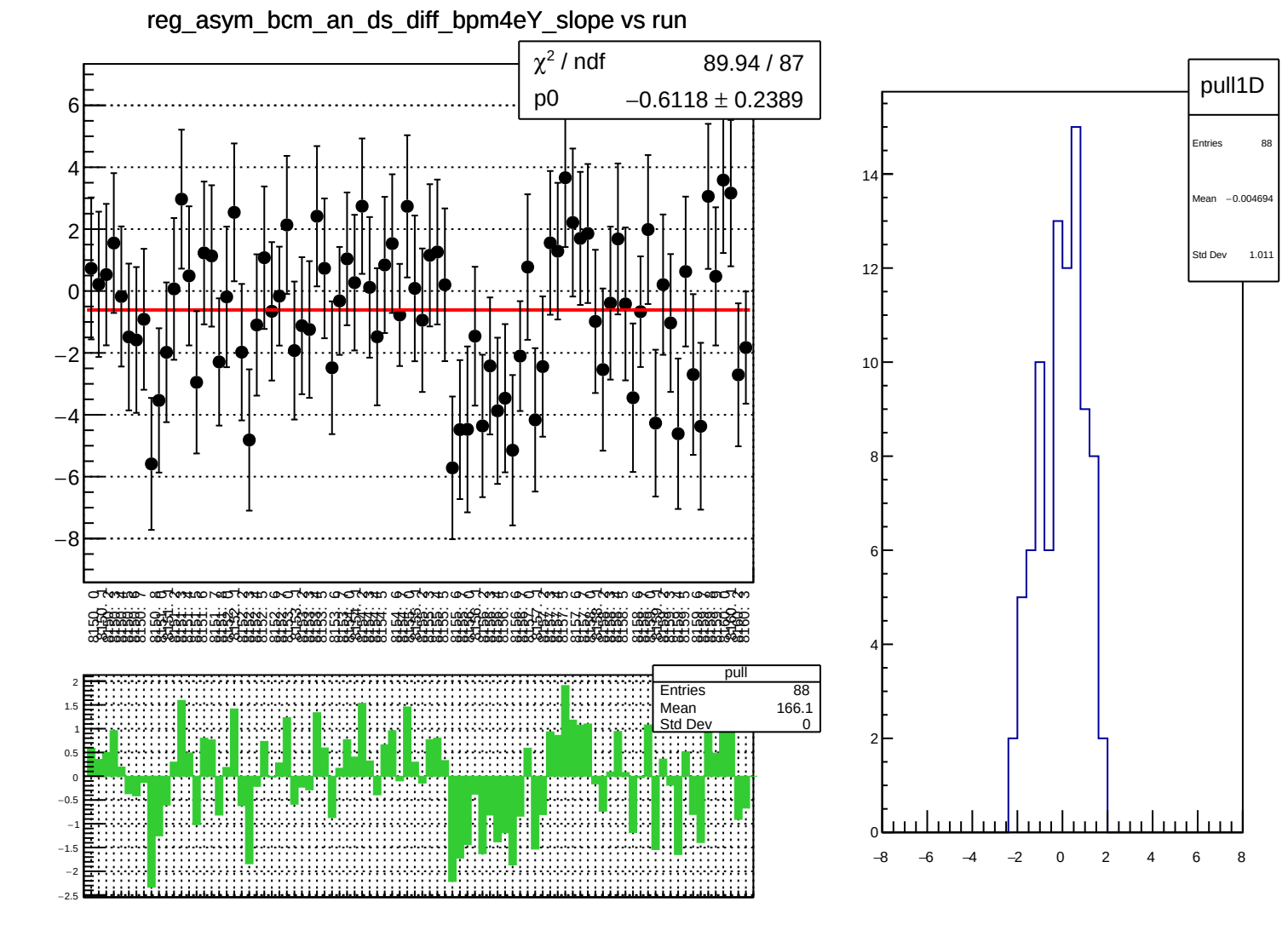

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 93.57 / 87
p0 0.05807 ± 0.01124
pull
Entries 88
Mean 260
Std Dev 0
pull1D
Entries 88
Mean 0.02873
Std Dev 1.031

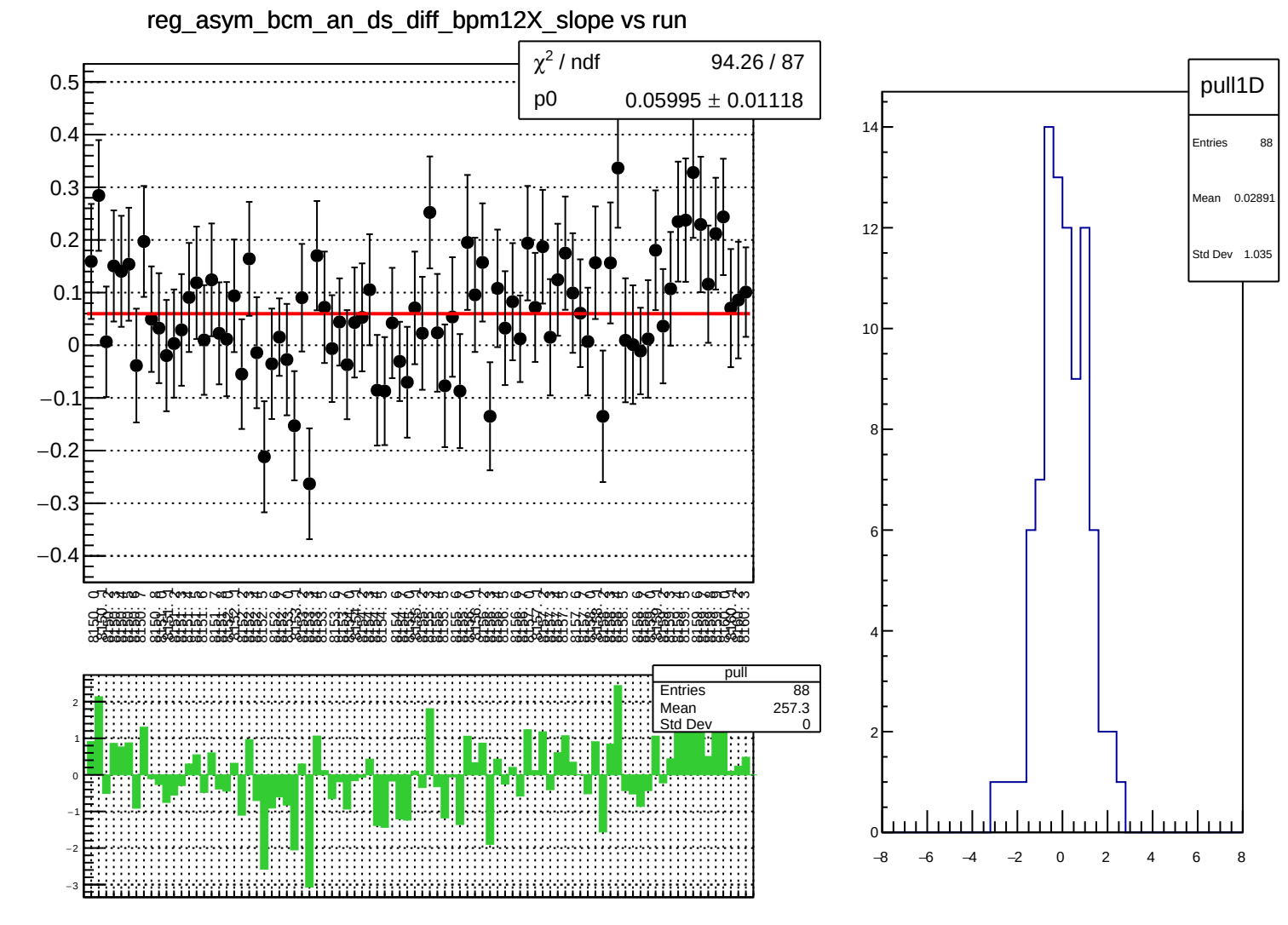

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 109.7 / 87
p0 1.565 ± 0.119
pull
Entries 88
Mean −1994
Std Dev 0
pull1D
Entries 88
Mean −0.002765
Std Dev 1.116

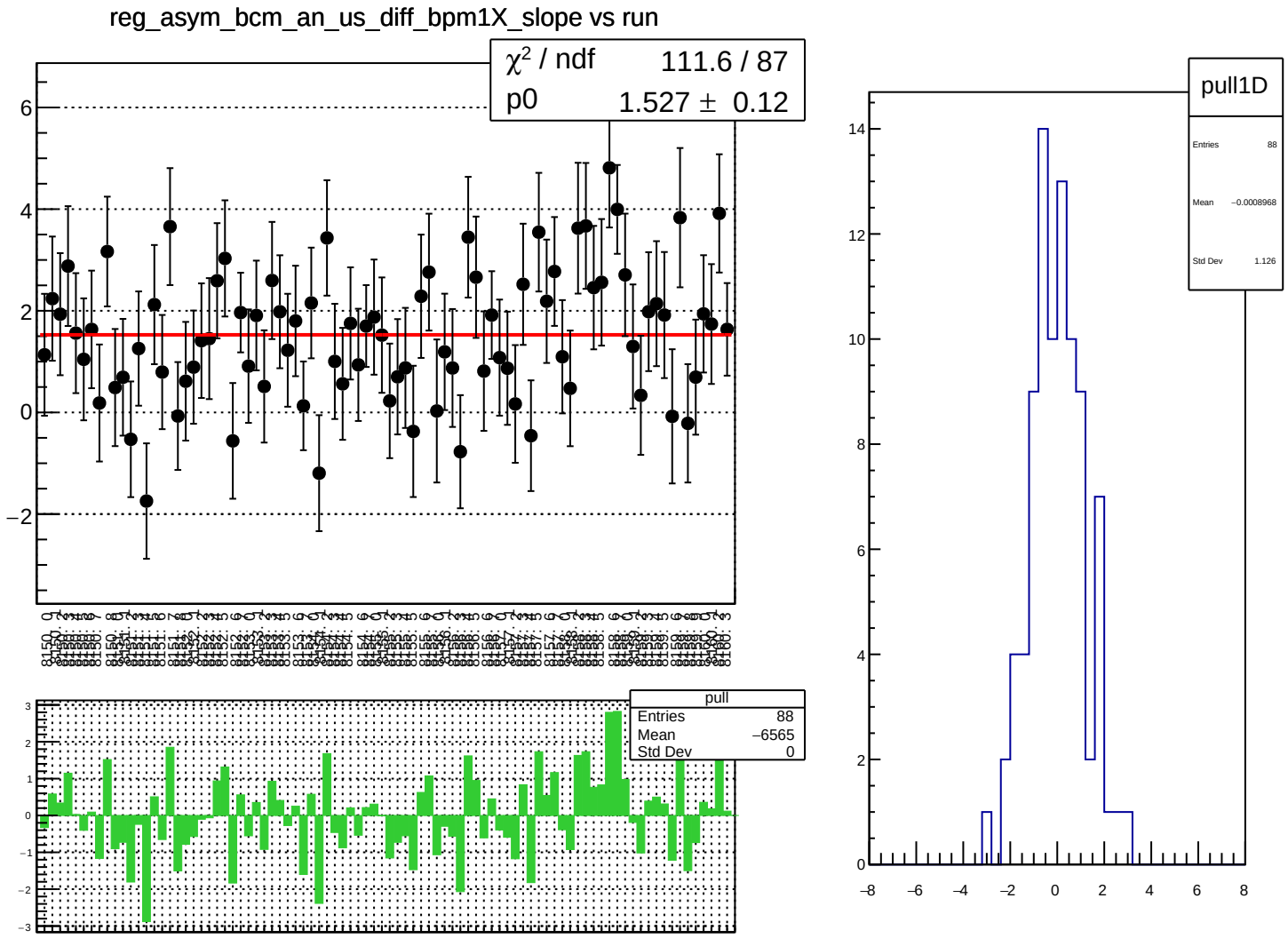

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 89.62 / 87
p0 0.6574 ± 0.2229
pull
Entries 88
Mean 231.9
Std Dev 0

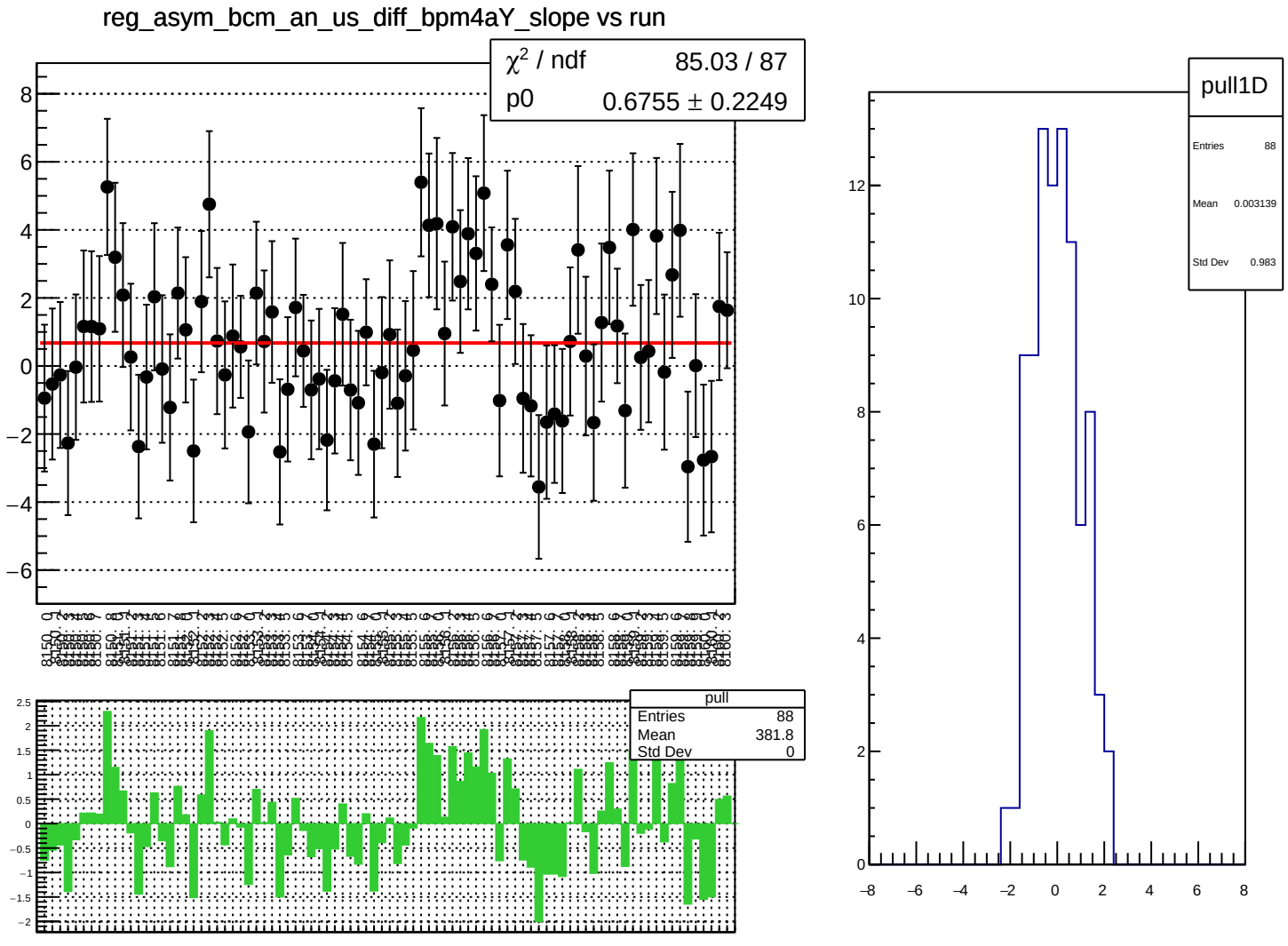

pull1D
Entries 88
Mean 0.006113
Std Dev 1.009

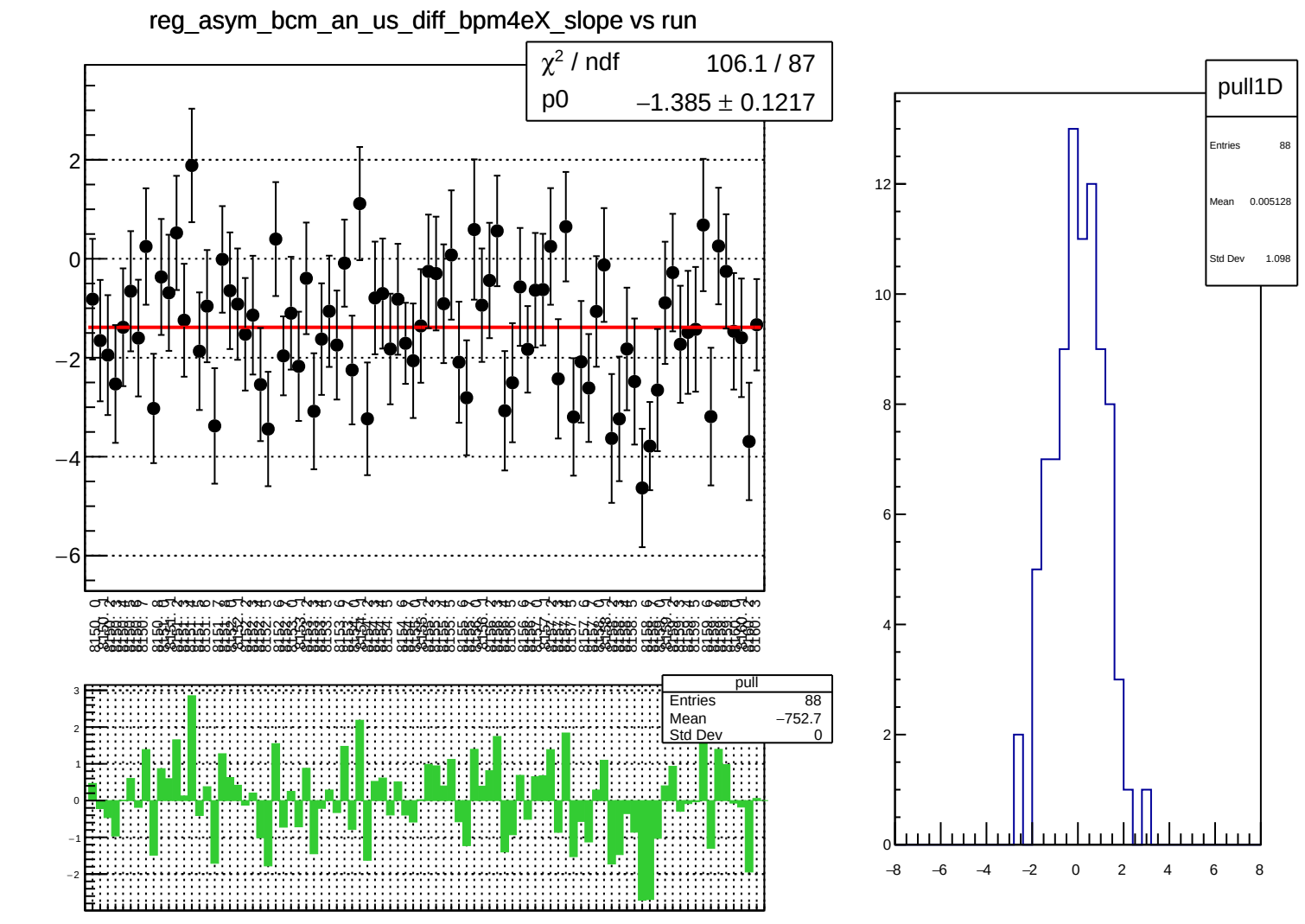

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 104.6 / 87
p0 −1.392 ± 0.1206
pull
Entries 88
Mean −495.4
Std Dev 0
pull1D
Entries 88
Mean 0.007122
Std Dev 1.09

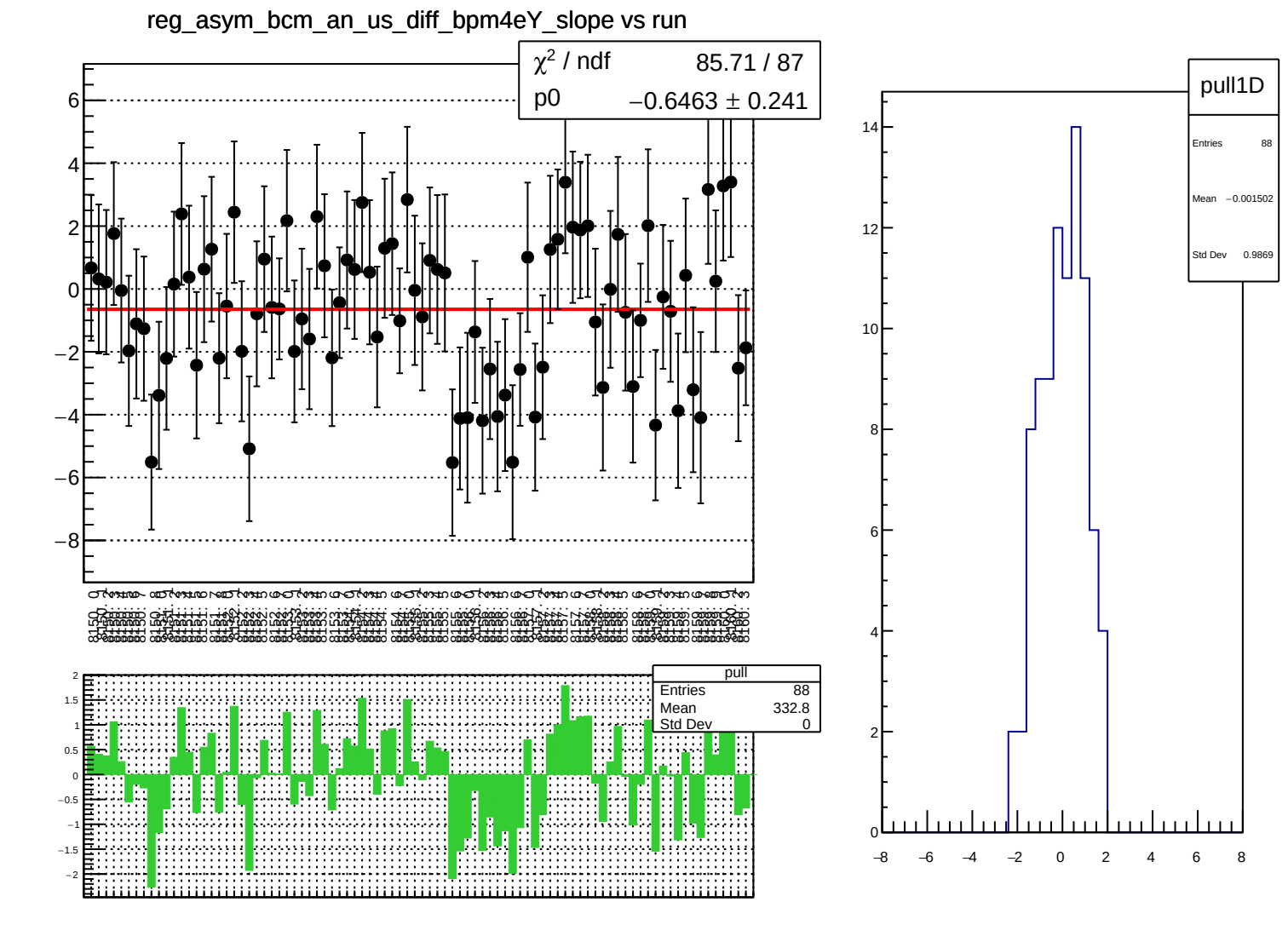

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 89.94 / 87
p0 −0.6118 ± 0.2389
pull
Entries 88
Mean 166.1
Std Dev 0
pull1D
Entries 88
Mean −0.004694
Std Dev 1.011

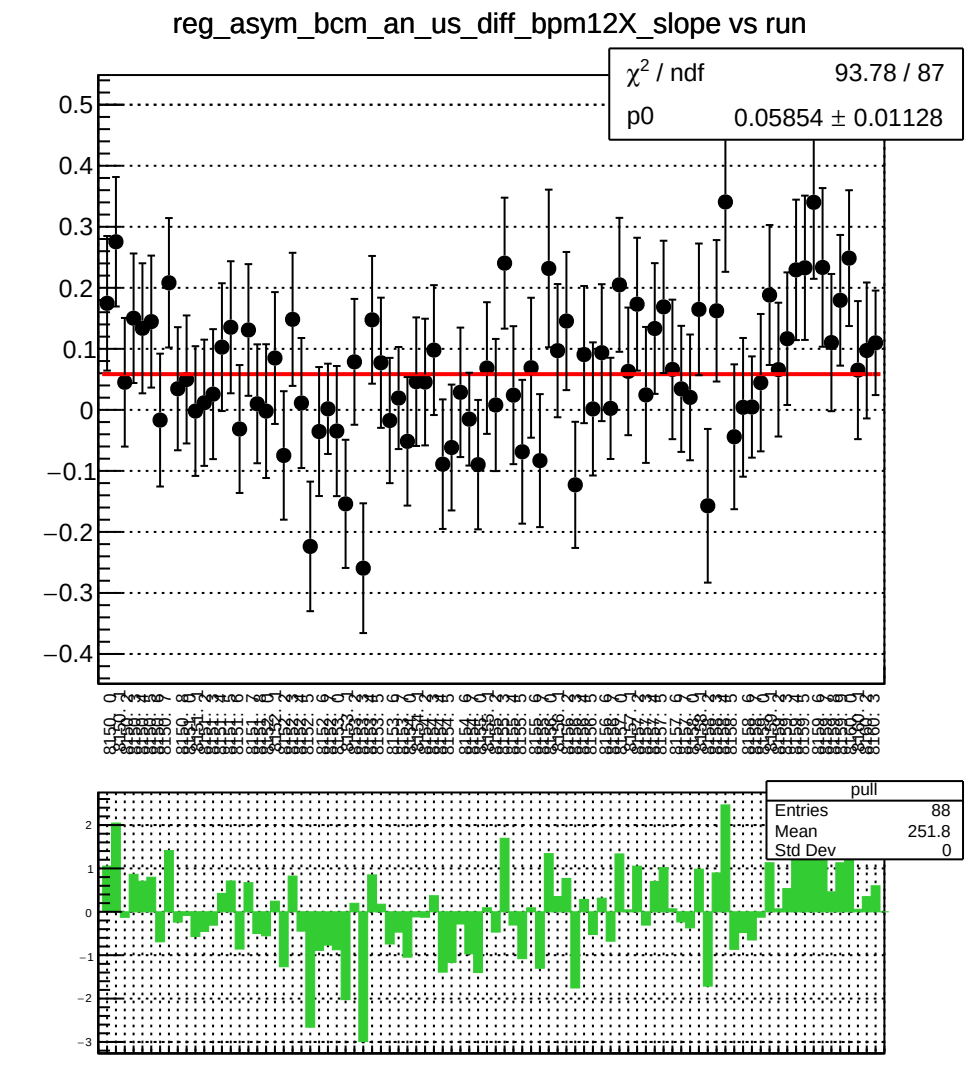

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 94.26 / 87
p0 0.05995 ± 0.01118
pull
Entries 88
Mean 257.3
Std Dev 0
pull1D
Entries 88
Mean 0.02891
Std Dev 1.035

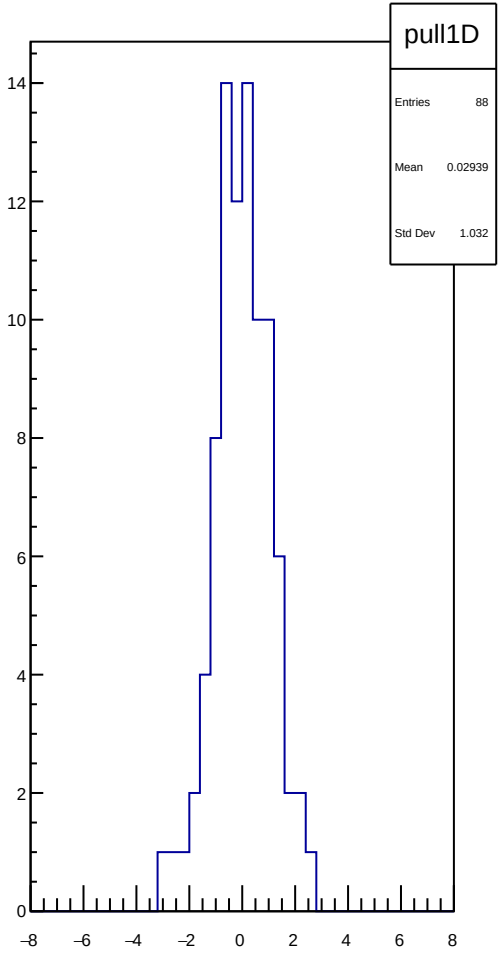

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 111.6 / 87
p0 1.527 ± 0.12
pull
Entries 88
Mean −6565
Std Dev 0
pull1D
Entries 88
Mean −0.0008968
Std Dev 1.126

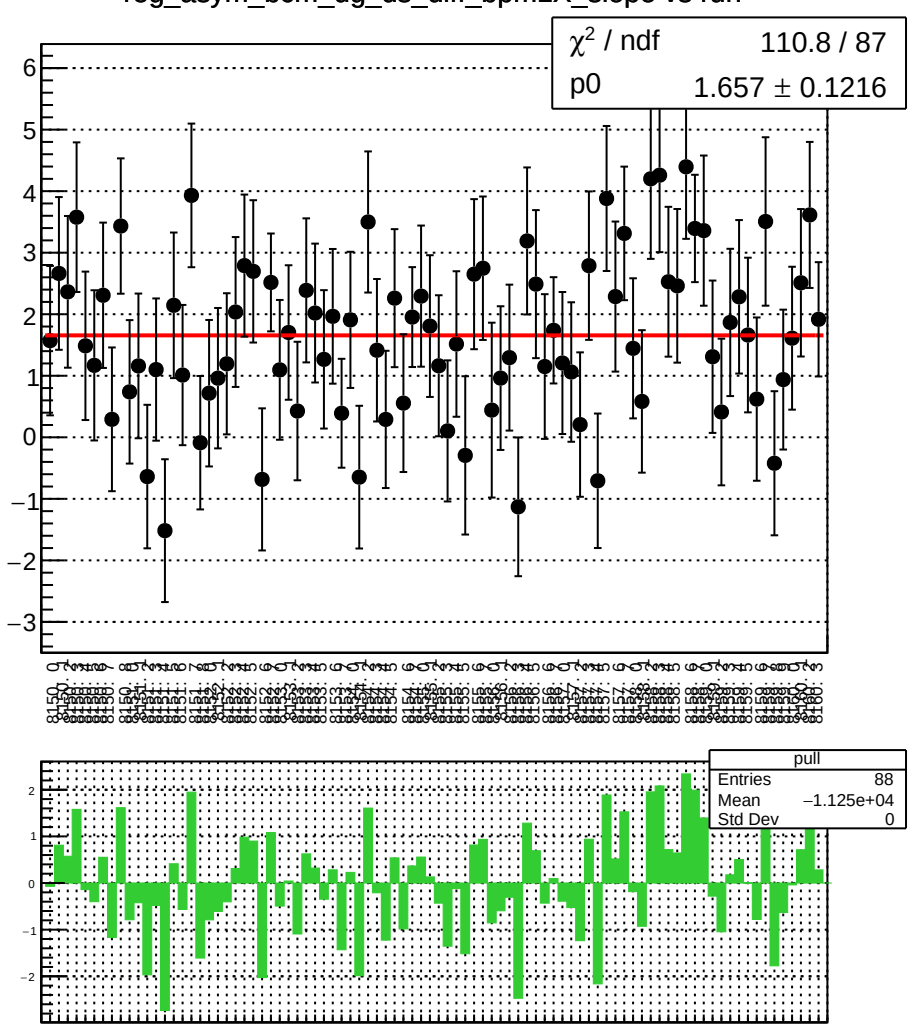

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 85.03 / 87
p0 0.6755 ± 0.2249
pull
Entries 88
Mean 381.8
Std Dev 0
pull1D
Entries 88
Mean 0.003139
Std Dev 0.983

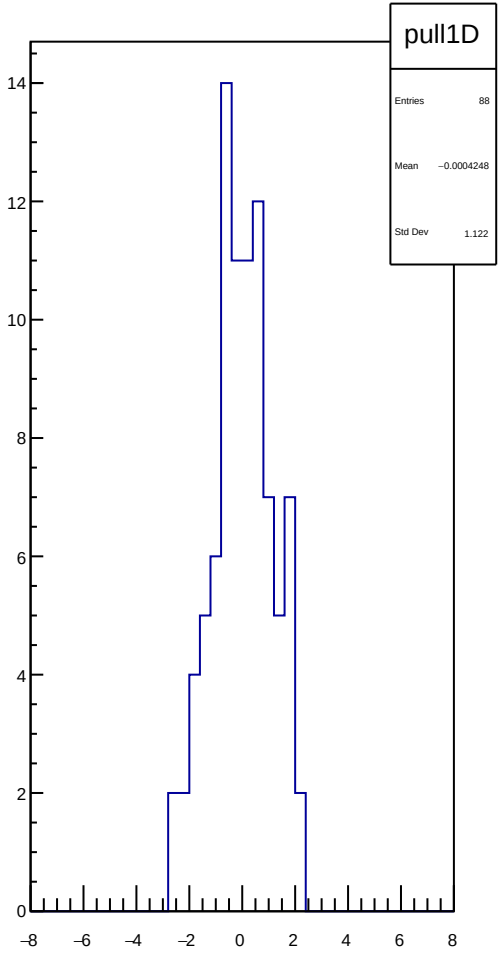

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 106.1 / 87
p0 −1.385 ± 0.1217
pull
Entries 88
Mean −752.7
Std Dev 0
pull1D
Entries 88
Mean 0.005128
Std Dev 1.098

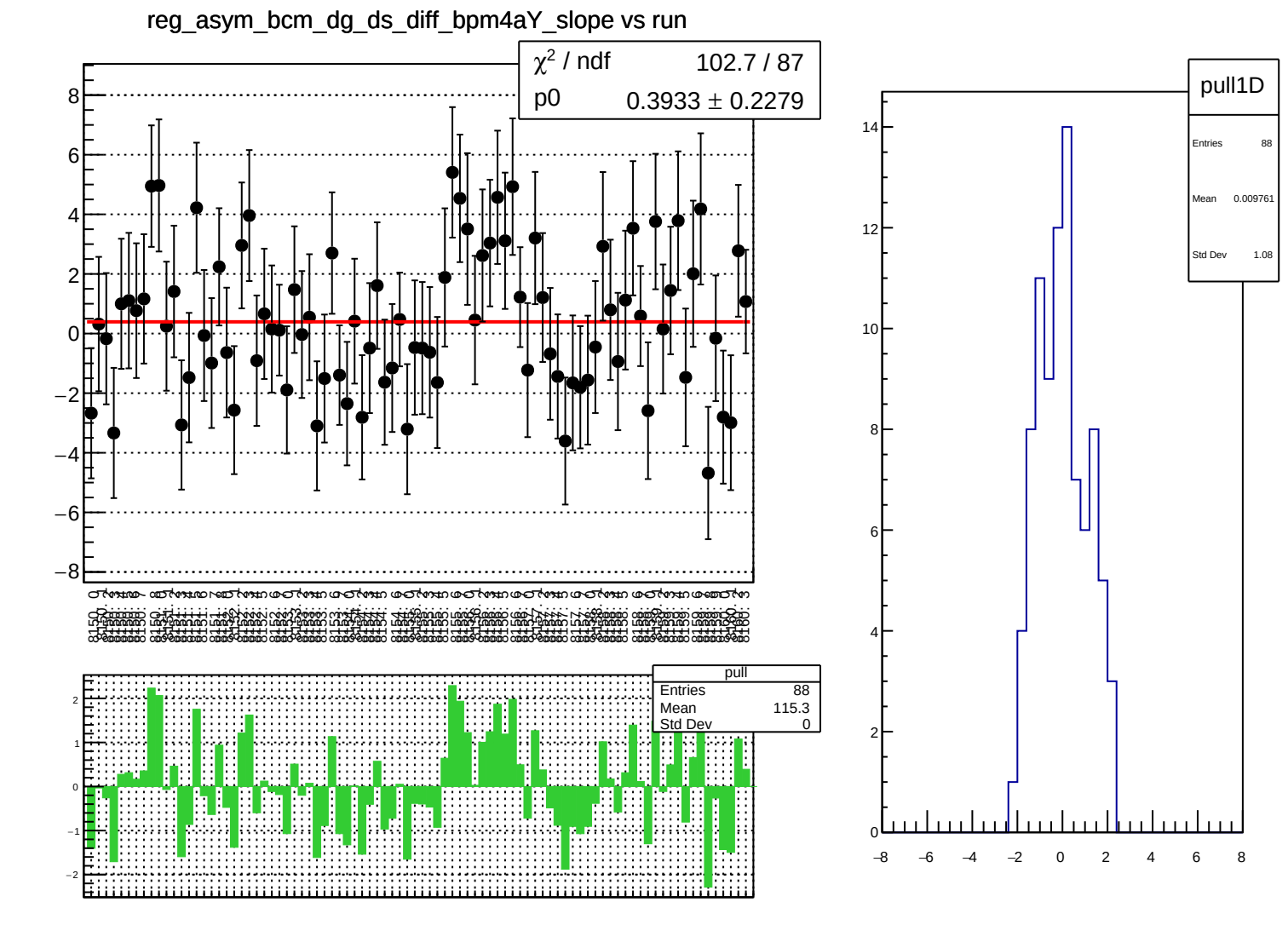

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 85.71 / 87
p0 −0.6463 ± 0.241
pull
Entries 88
Mean 332.8
Std Dev 0
pull1D
Entries 88
Mean −0.001502
Std Dev 0.9869

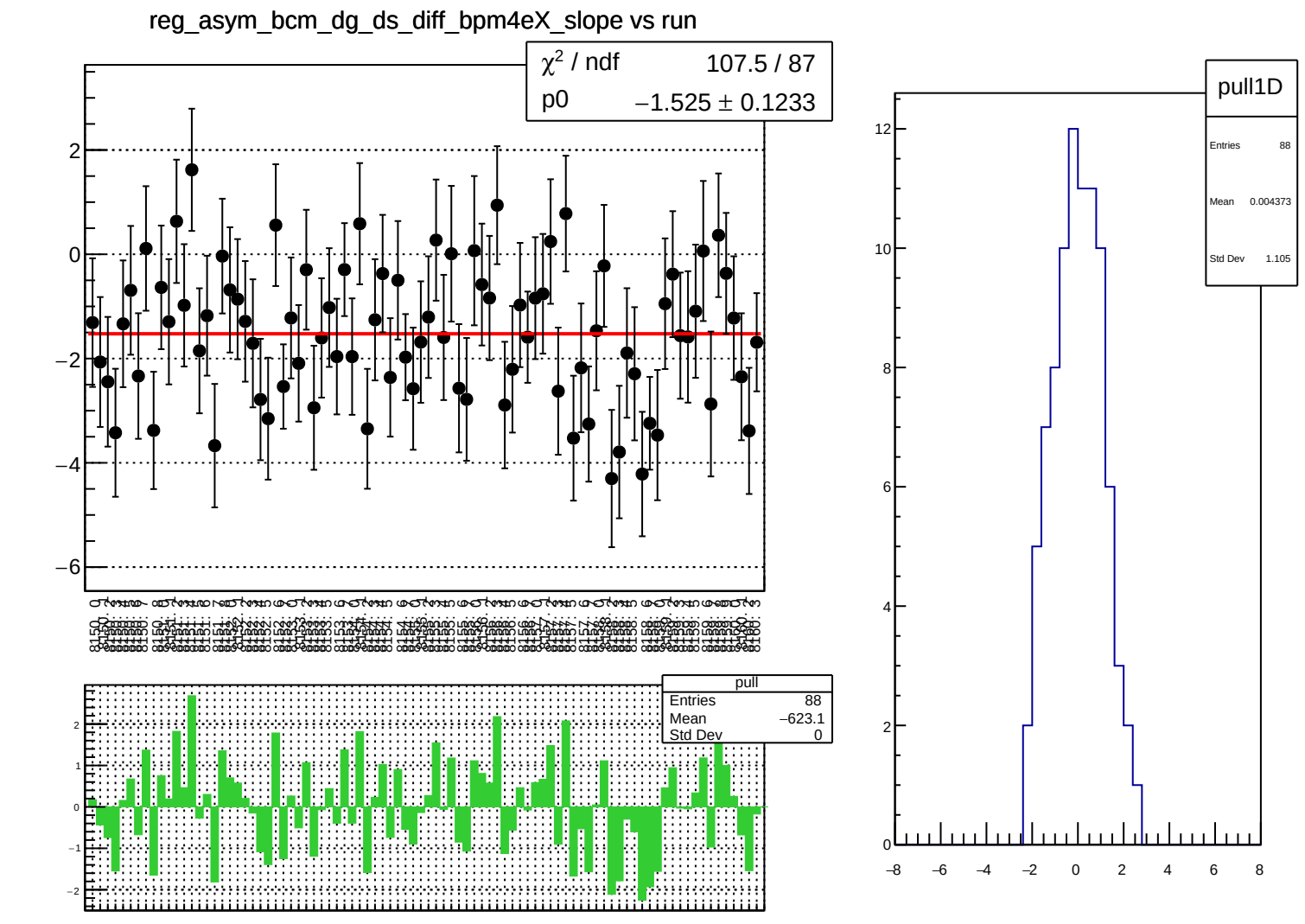

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 93.78 / 87
p0 0.05854 ± 0.01128
pull
Entries 88
Mean 251.8
Std Dev 0

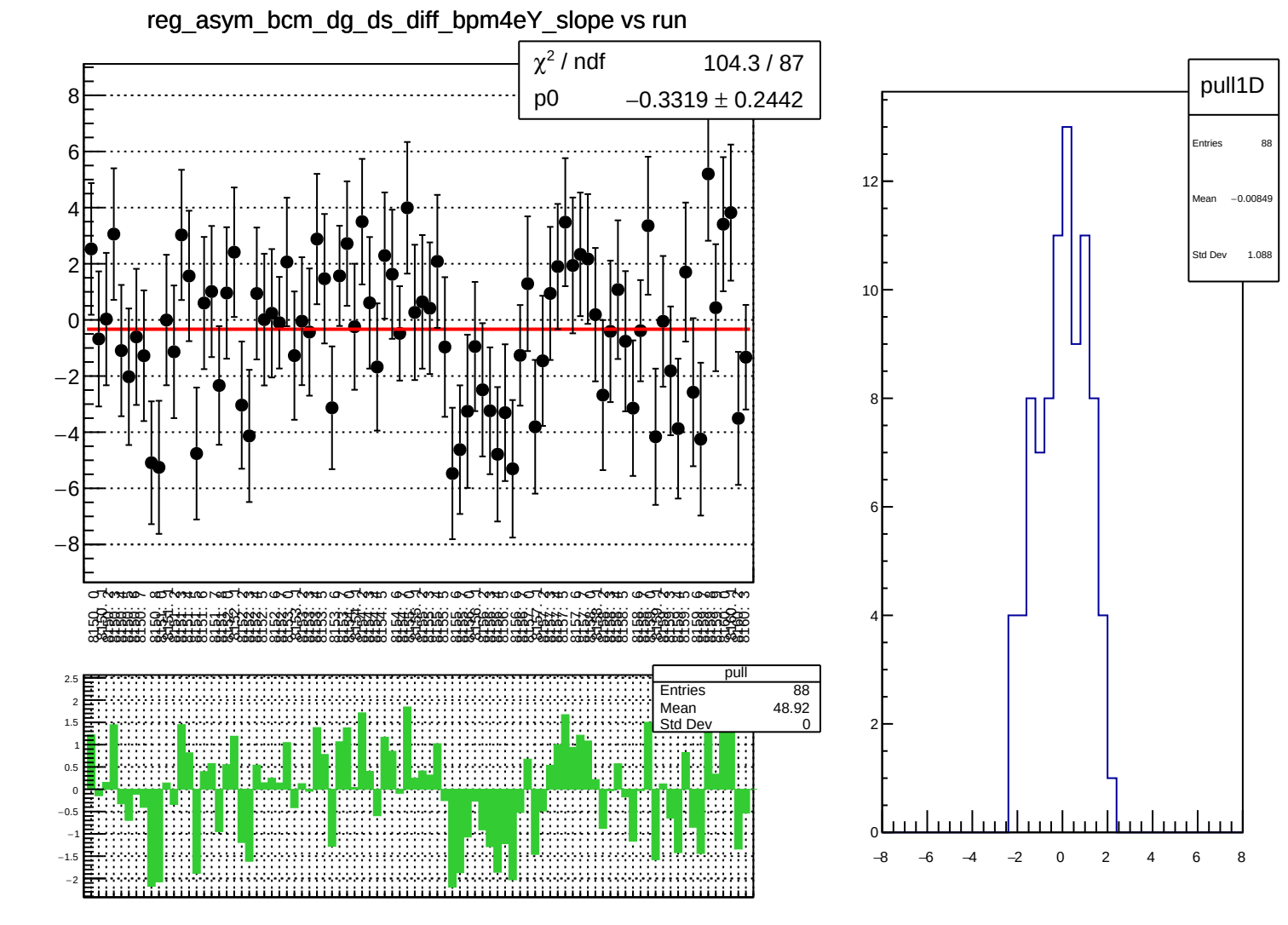

pull1D
Entries 88
Mean 0.02939
Std Dev 1.032

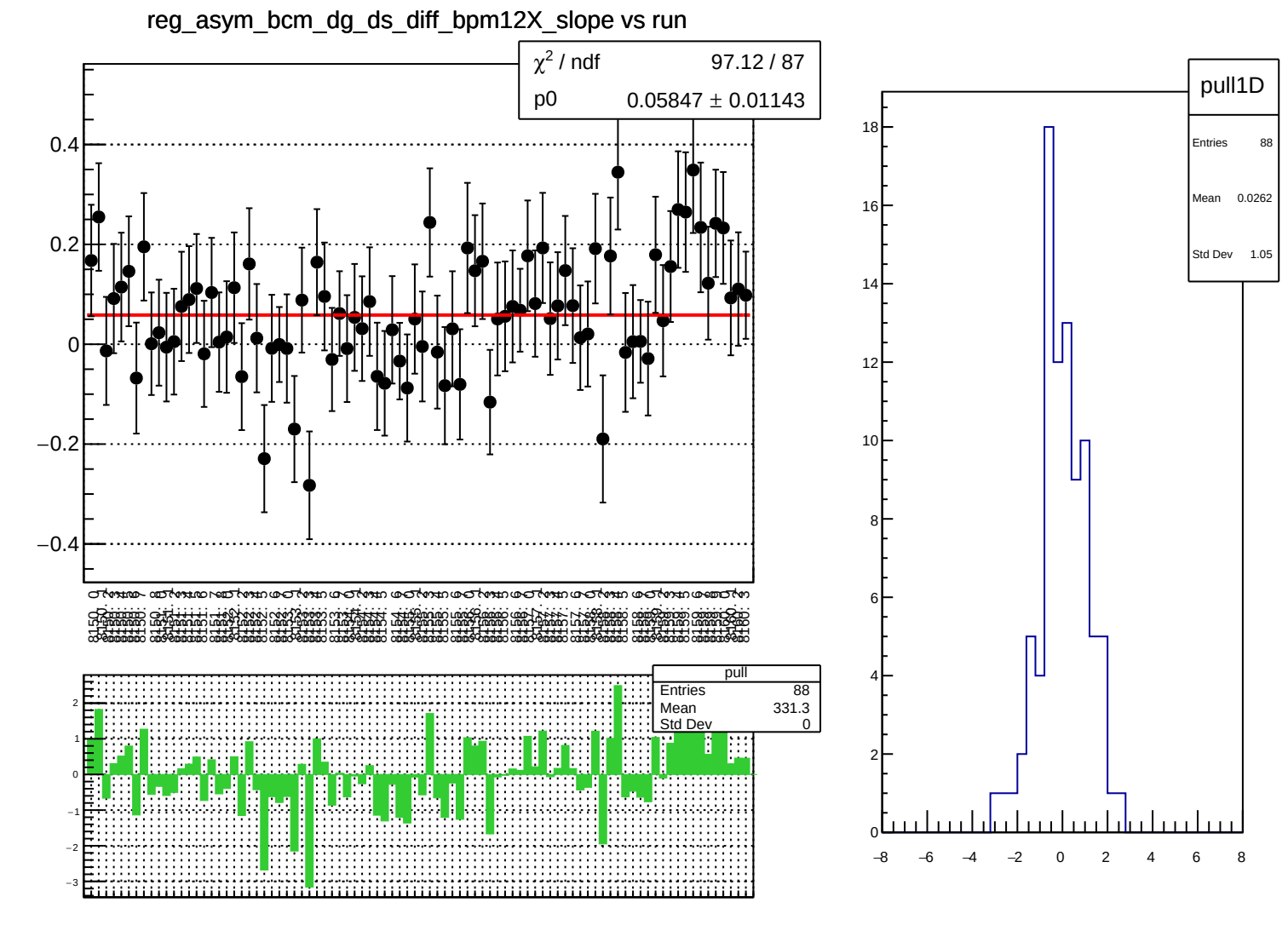

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 110.8 / 87
p0 1.657 ± 0.1216
pull
Entries 88
Mean −1.125e+04
Std Dev 0

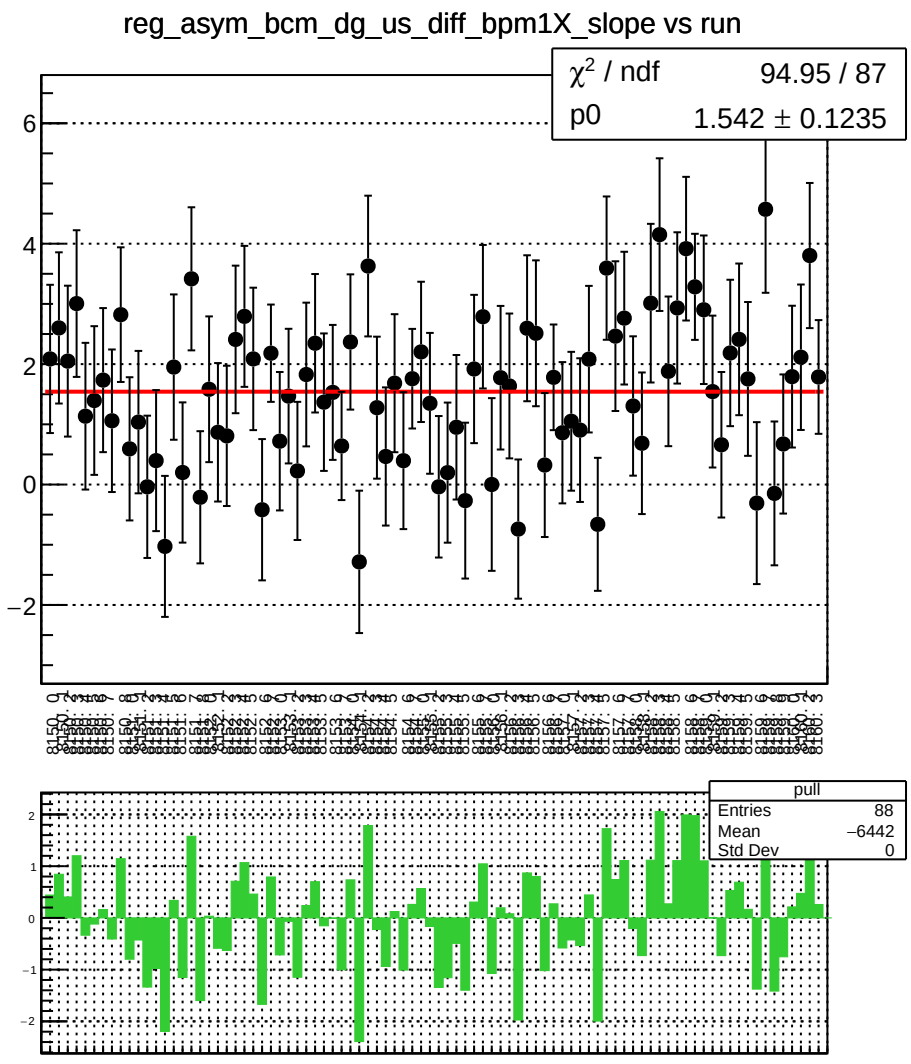

pull1D
Entries 88
Mean −0.0004248
Std Dev 1.122

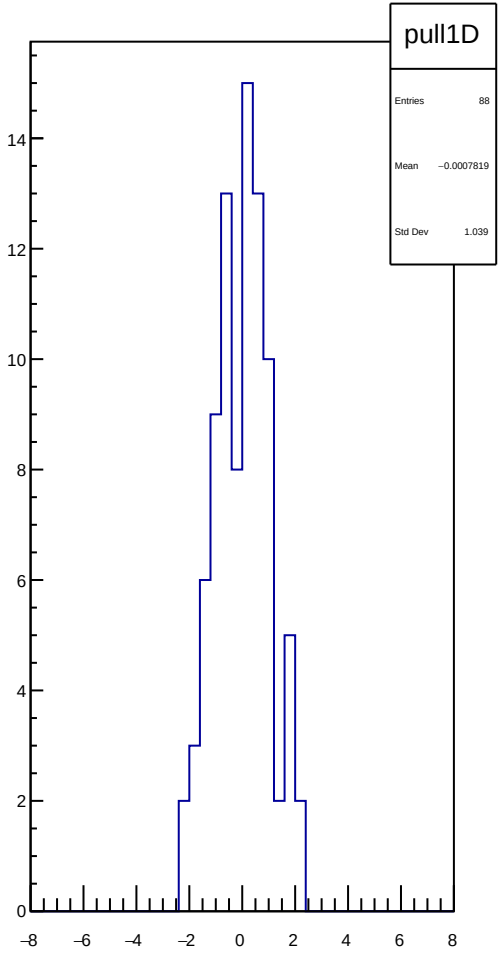

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 102.7 / 87
p0 0.3933 ± 0.2279
pull
Entries 88
Mean 115.3
Std Dev 0
pull1D
Entries 88
Mean 0.009761
Std Dev 1.08

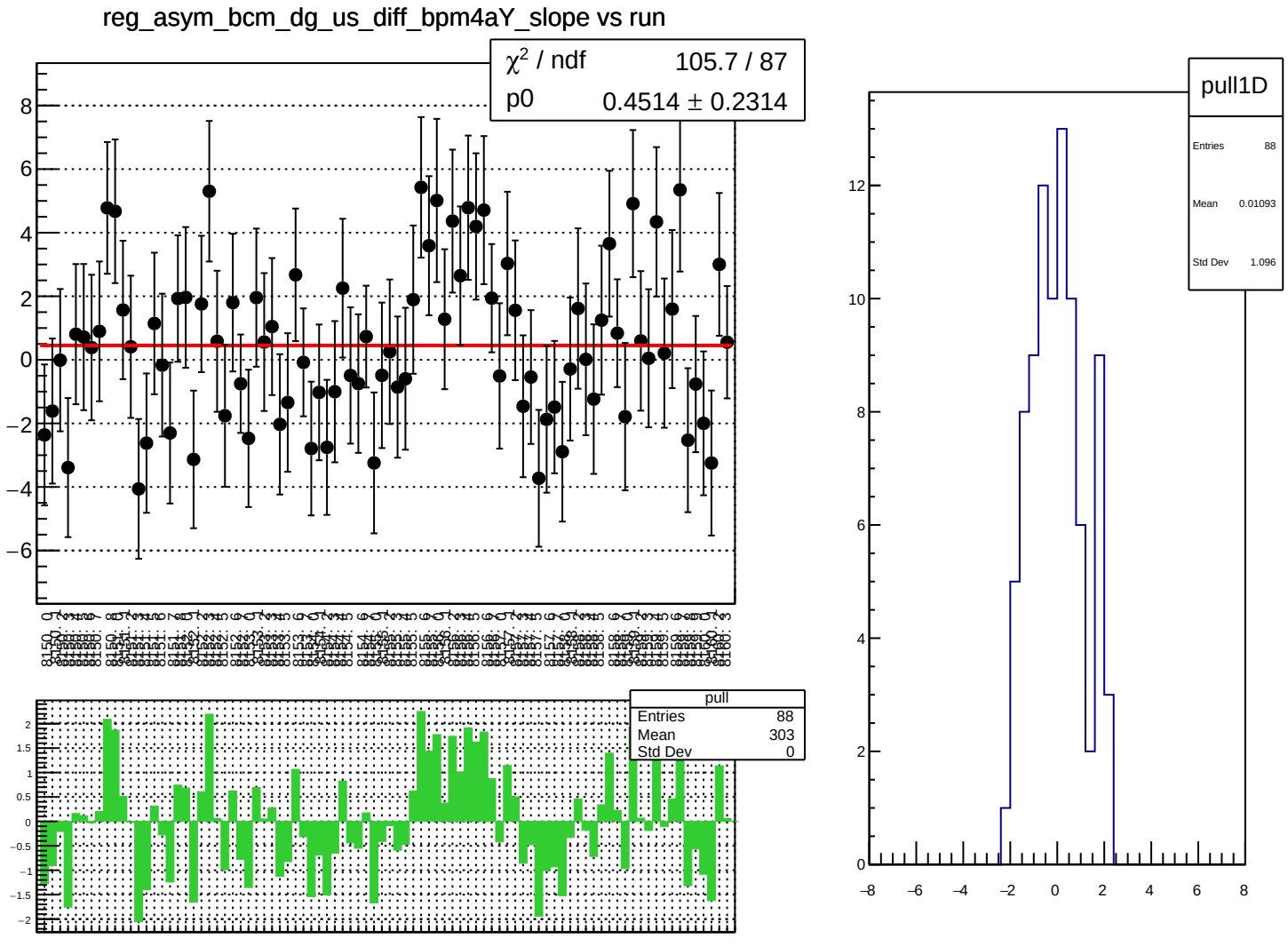

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 107.5 / 87
p0 −1.525 ± 0.1233
pull
Entries 88
Mean −623.1
Std Dev 0
pull1D
Entries 88
Mean 0.004373
Std Dev 1.105

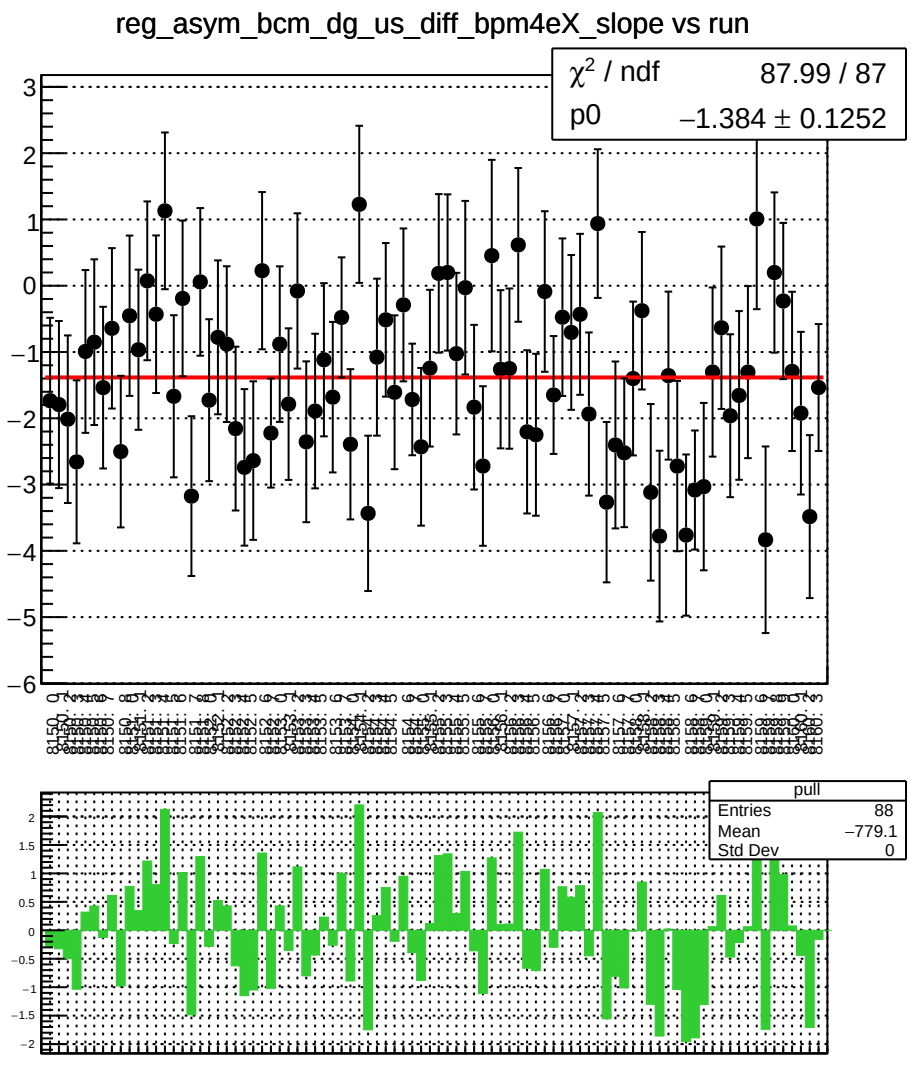

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 104.3 / 87
p0 −0.3319 ± 0.2442
pull
Entries 88
Mean 48.92
Std Dev 0
pull1D
Entries 88
Mean −0.00849
Std Dev 1.088

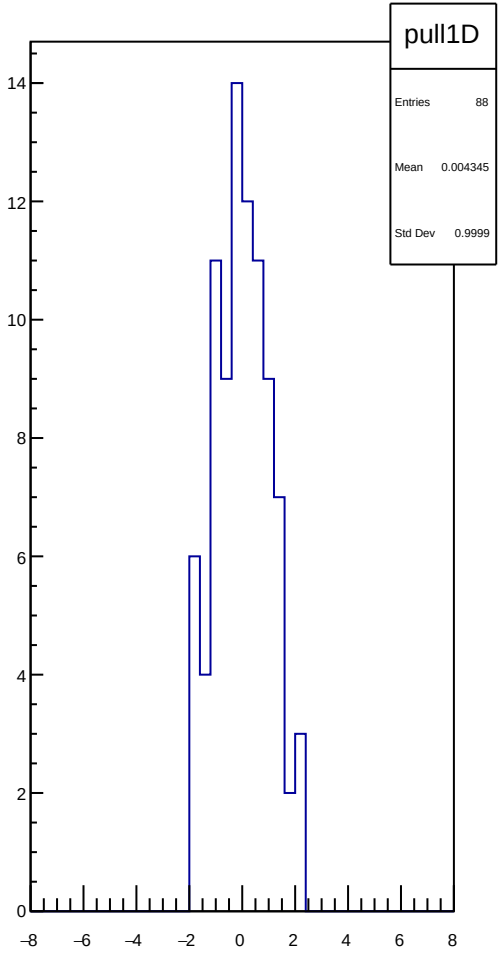

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 97.12 / 87
p0 0.05847 ± 0.01143
pull
Entries 88
Mean 331.3
Std Dev 0
pull1D
Entries 88
Mean 0.0262
Std Dev 1.05

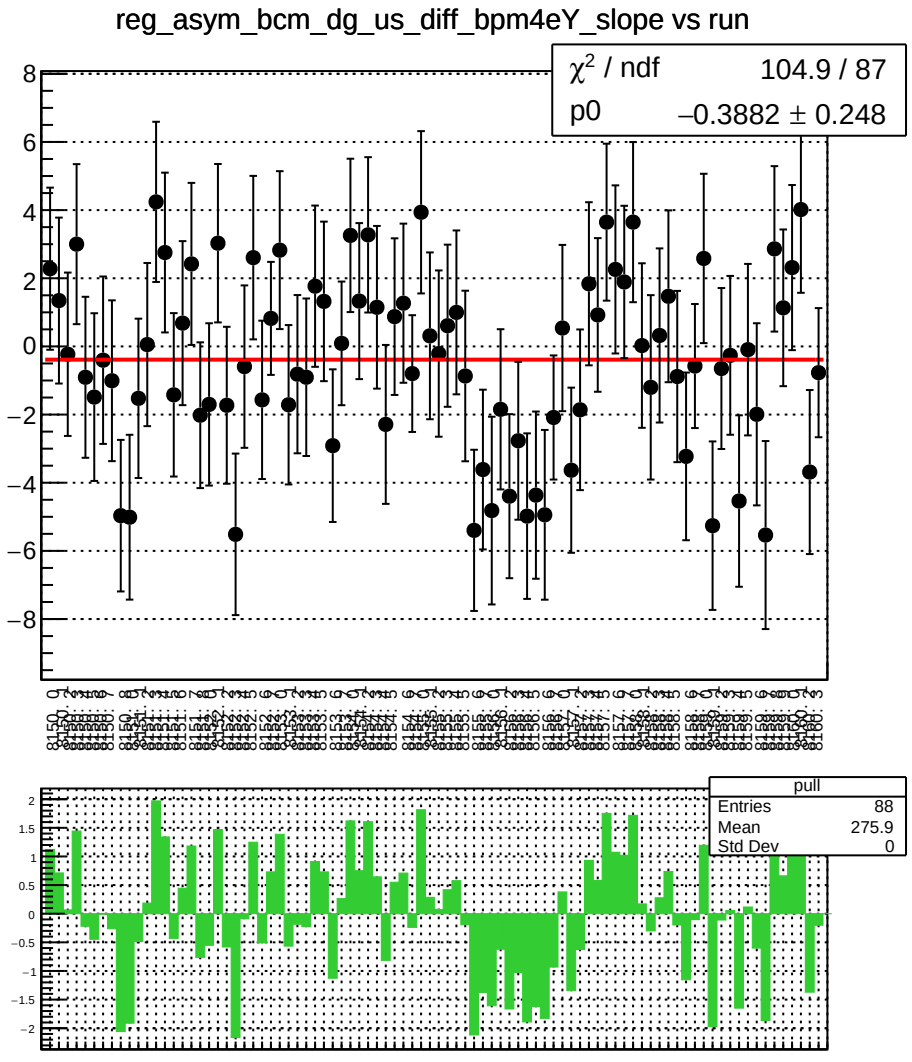

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 94.95 / 87
p0 1.542 ± 0.1235
pull
Entries 88
Mean −6442
Std Dev 0

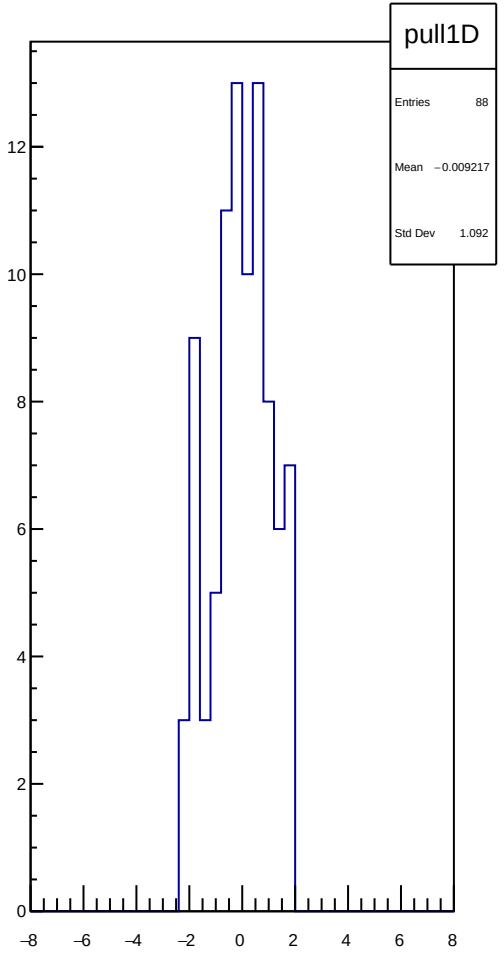

pull1D
Entries 88
Mean −0.0007819
Std Dev 1.039

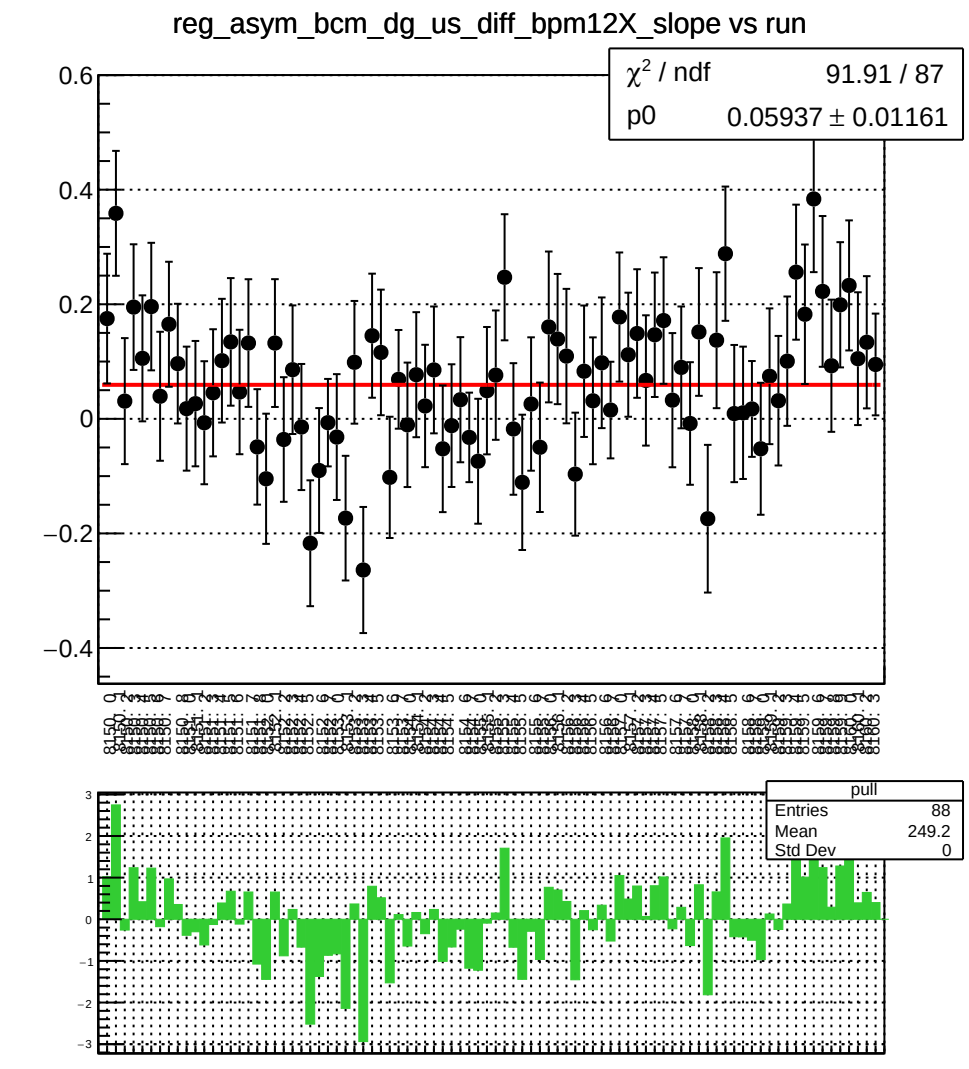

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 105.7 / 87
p0 0.4514 ± 0.2314
pull
Entries 88
Mean 303
Std Dev 0
pull1D
Entries 88
Mean 0.01093
Std Dev 1.096

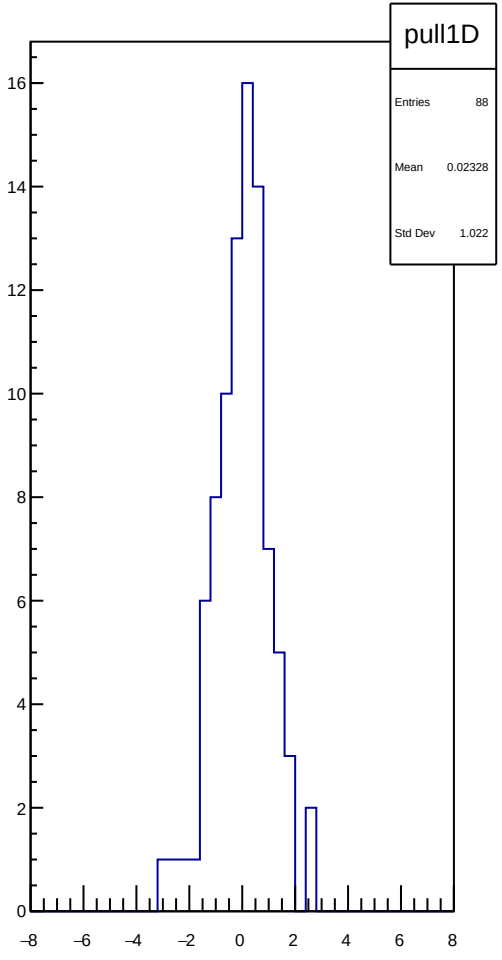

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 87.99 / 87
p0 −1.384 ± 0.1252
pull
Entries 88
Mean −779.1
Std Dev 0

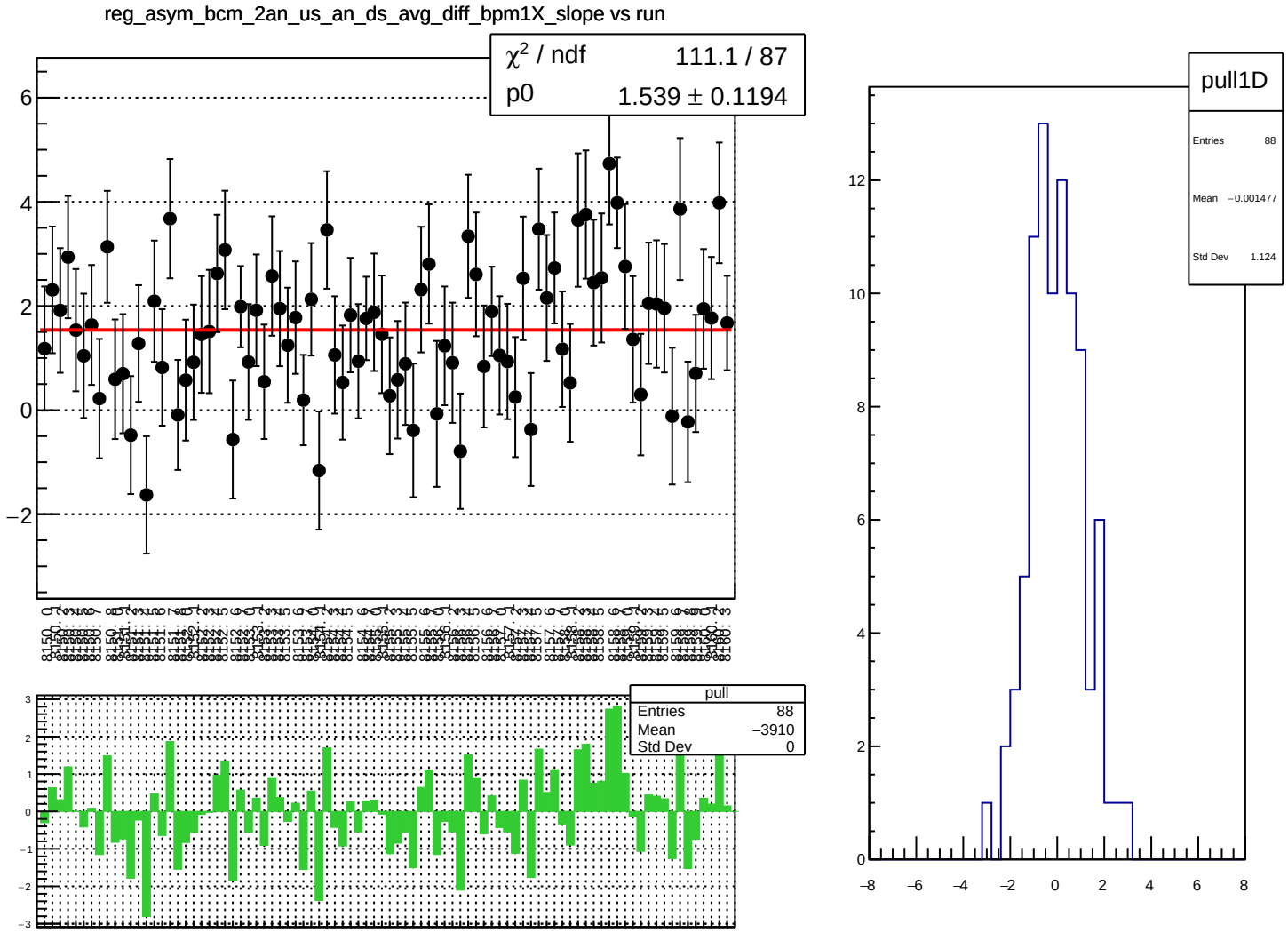

pull1D
Entries 88
Mean 0.004345
Std Dev 0.9999

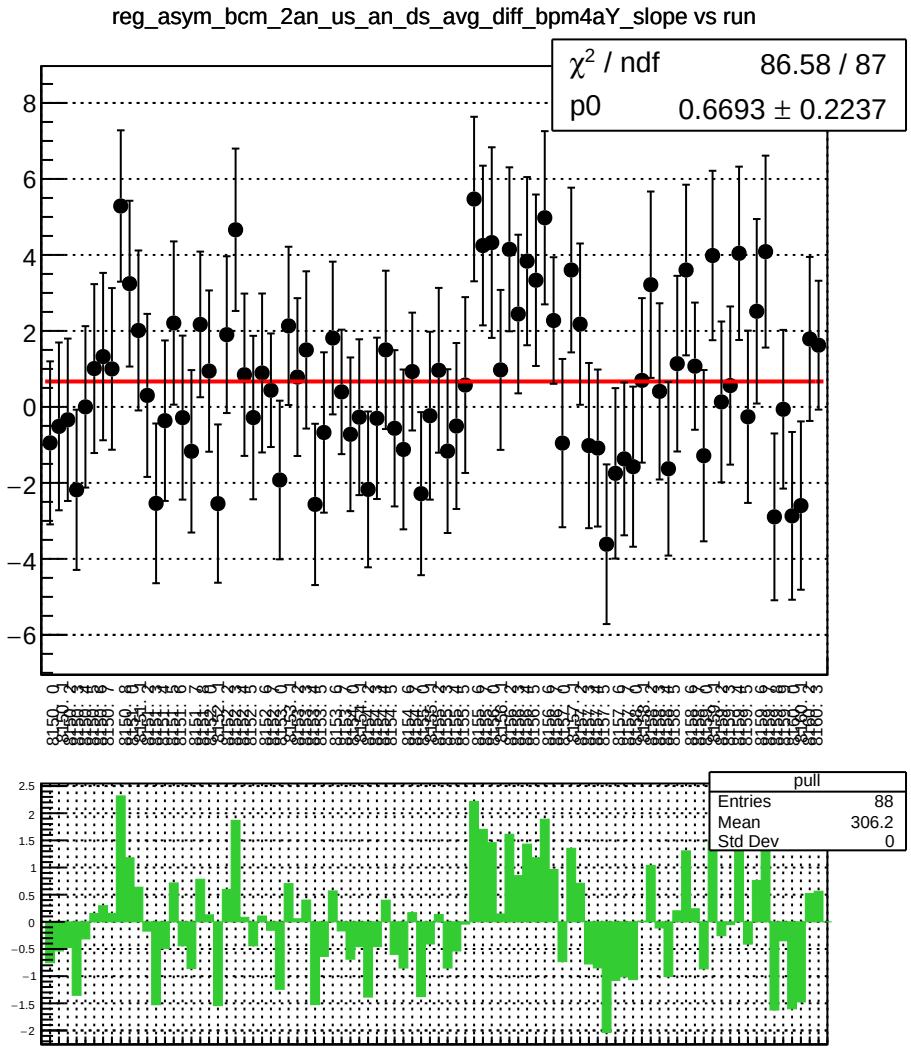

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 104.9 / 87
p0 −0.3882 ± 0.248
pull
Entries 88
Mean 275.9
Std Dev 0

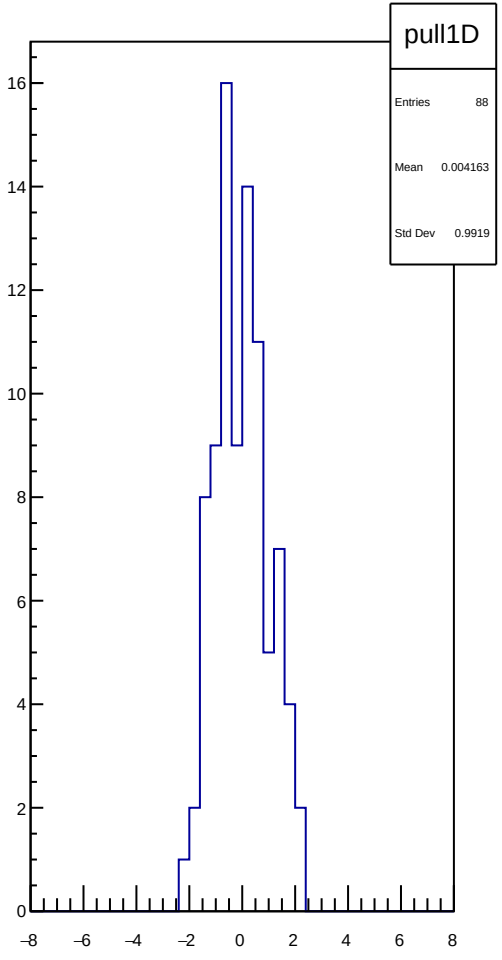

pull1D
Entries 88
Mean −0.009217
Std Dev 1.092

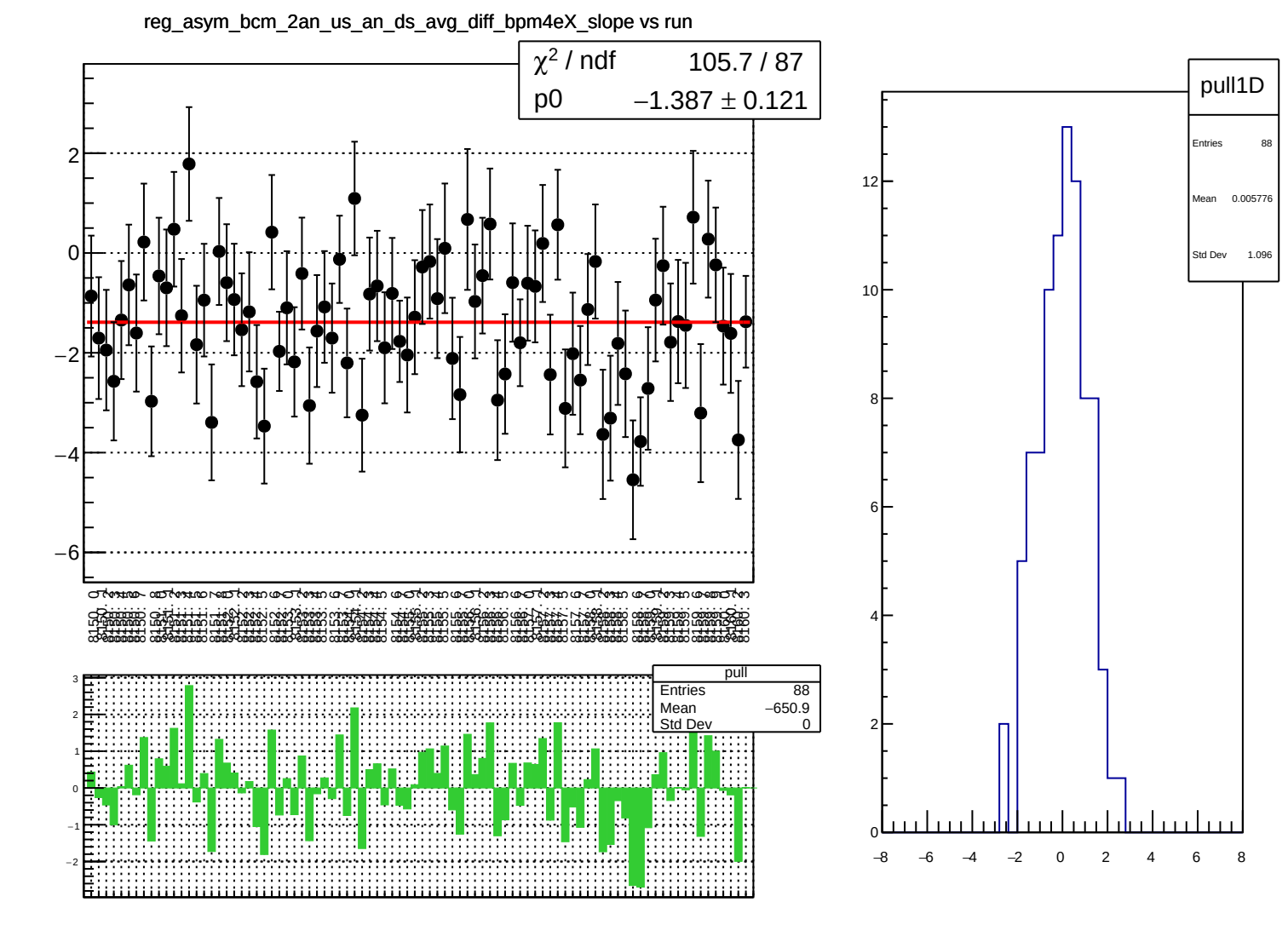

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 91.91 / 87
p0 0.05937 ± 0.01161
pull
Entries 88
Mean 249.2
Std Dev 0

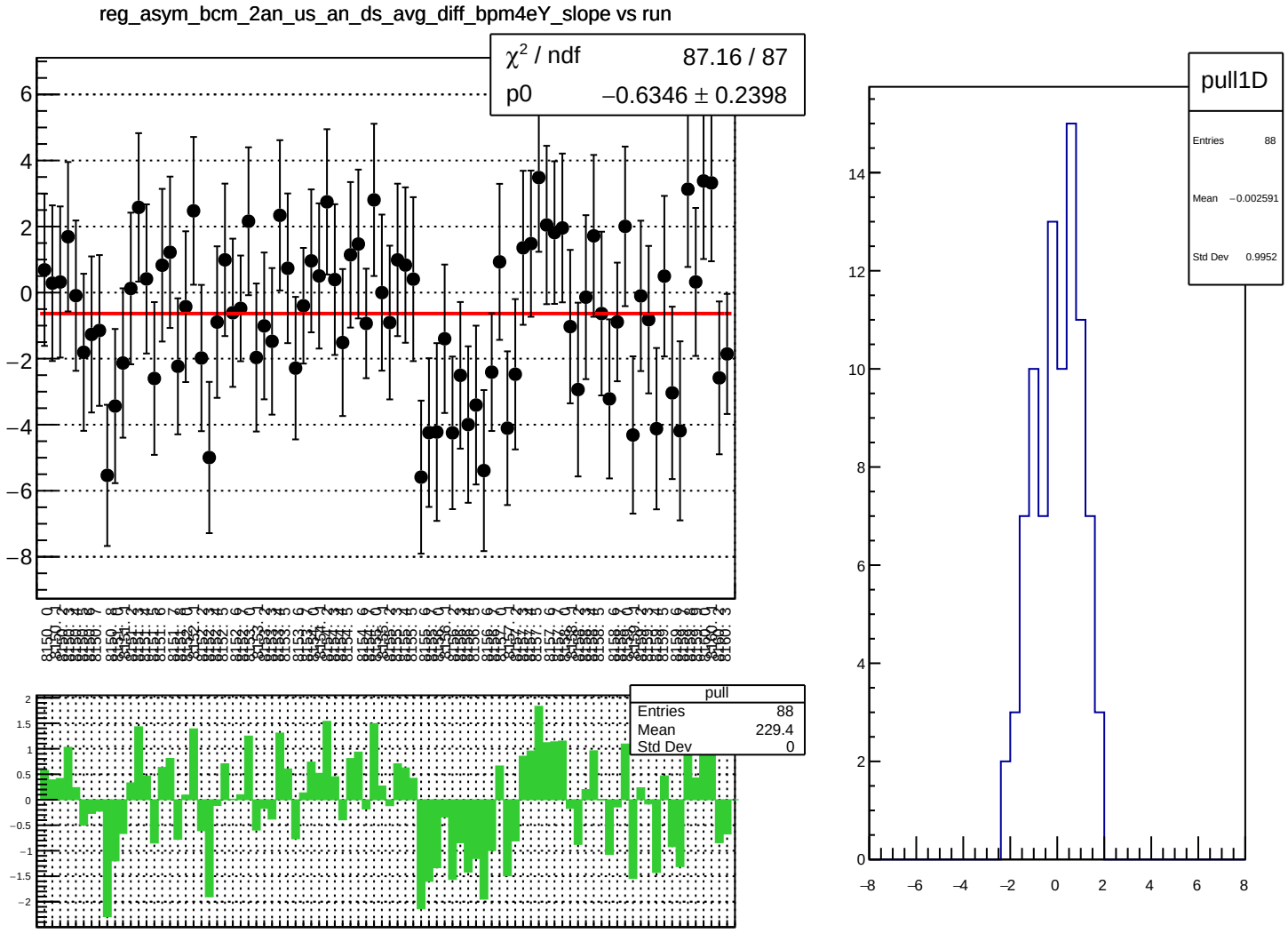

pull1D
Entries 88
Mean 0.02328
Std Dev 1.022

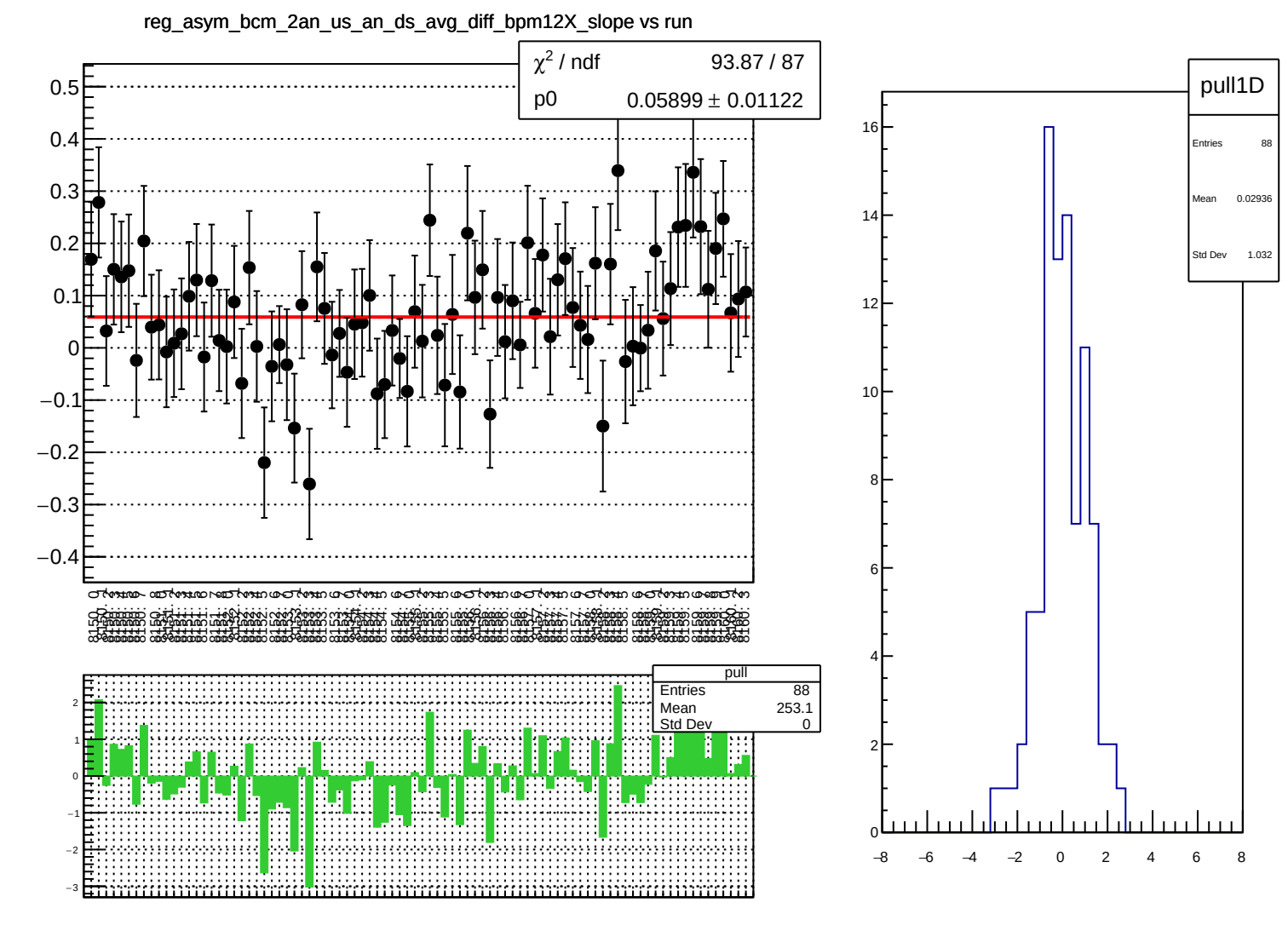

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 111.1 / 87
p0 1.539 ± 0.1194
pull
Entries 88
Mean −3910
Std Dev 0
pull1D
Entries 88
Mean −0.001477
Std Dev 1.124

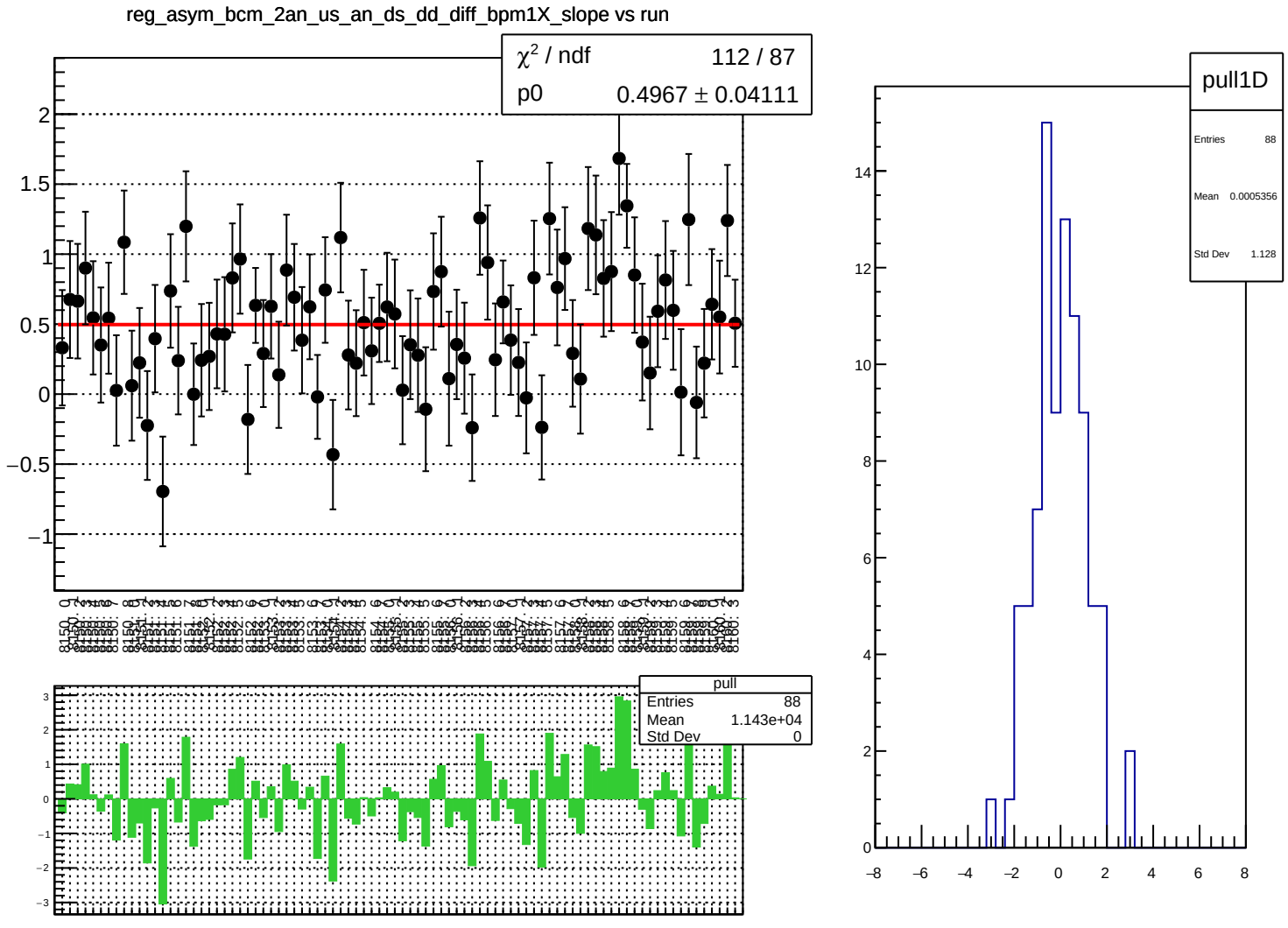

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 86.58 / 87
p0 0.6693 ± 0.2237
pull
Entries 88
Mean 306.2
Std Dev 0

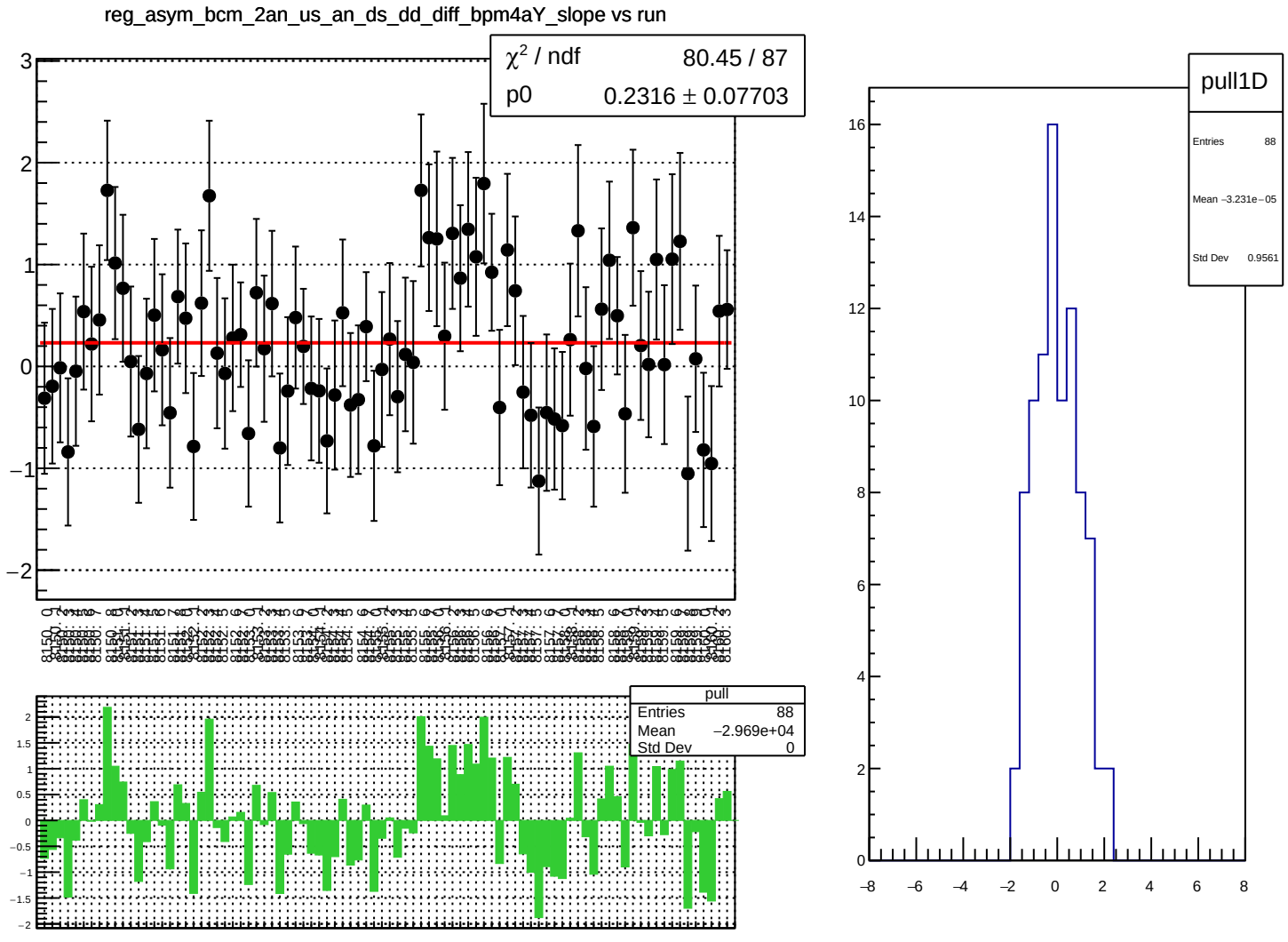

pull1D
Entries 88
Mean 0.004163
Std Dev 0.9919

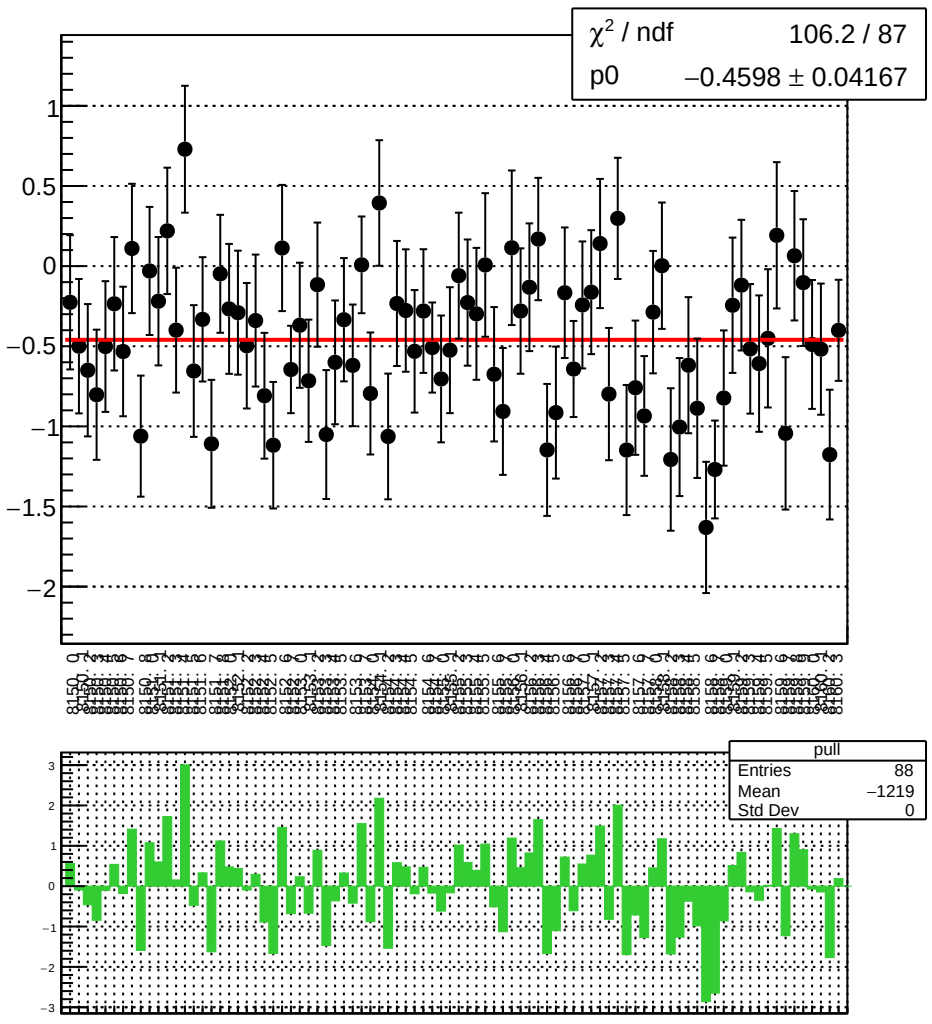

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 105.7 / 87
p0 −1.387 ± 0.121
pull
Entries 88
Mean −650.9
Std Dev 0
pull1D
Entries 88
Mean 0.005776
Std Dev 1.096

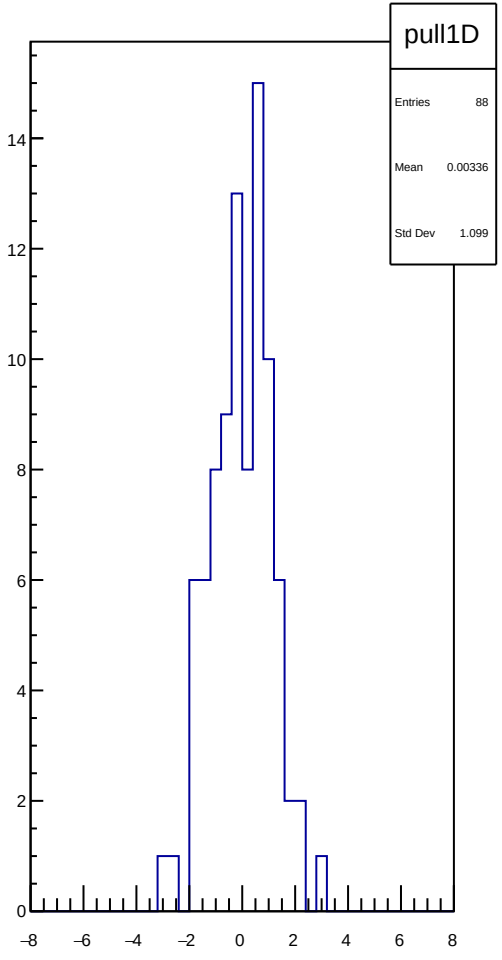

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 87.16 / 87
p0 −0.6346 ± 0.2398
pull
Entries 88
Mean 229.4
Std Dev 0
pull1D
Entries 88
Mean −0.002591
Std Dev 0.9952

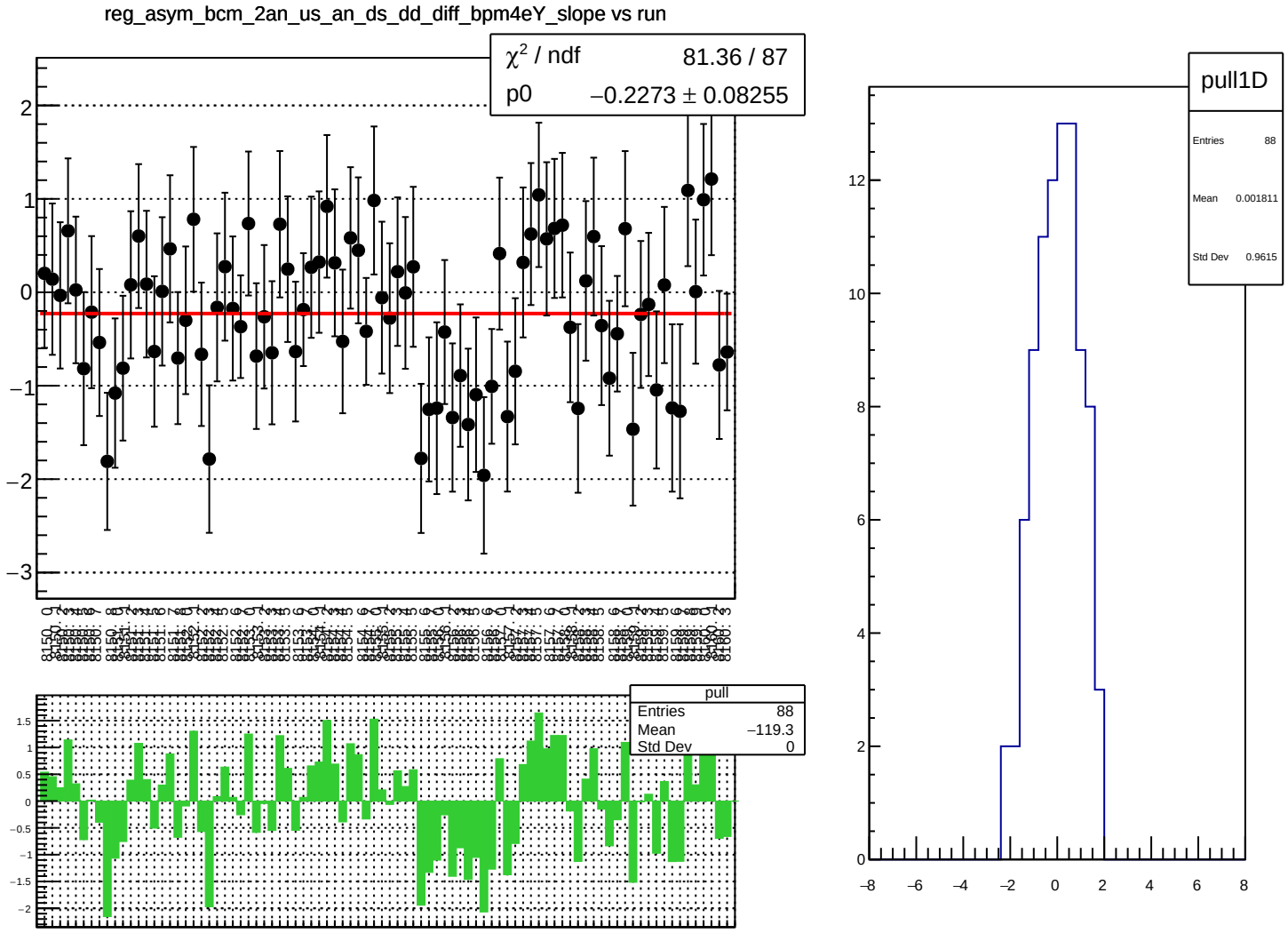

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 93.87 / 87
p0 0.05899 ± 0.01122
pull
Entries 88
Mean 253.1
Std Dev 0
pull1D
Entries 88
Mean 0.02936
Std Dev 1.032

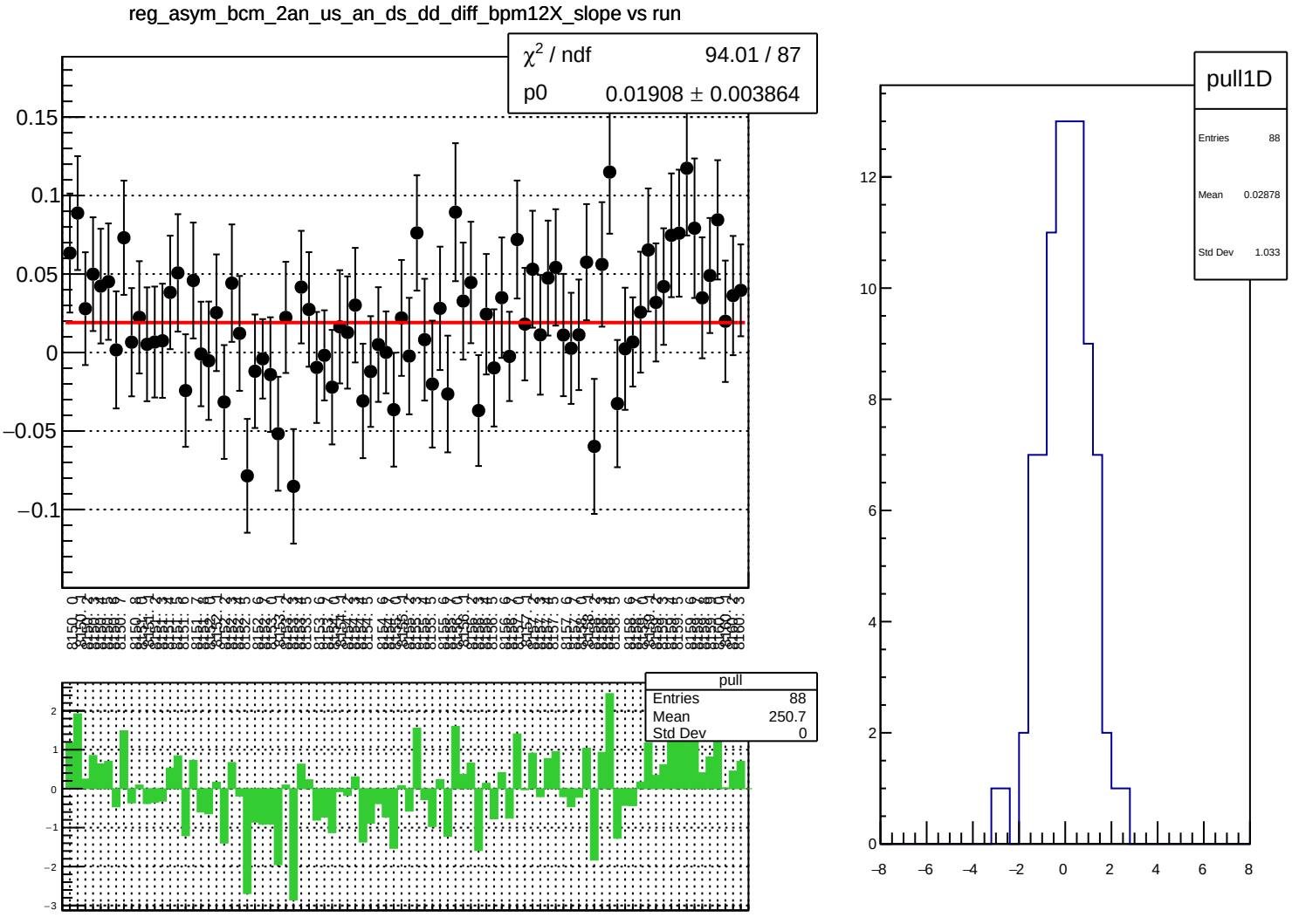

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 112 / 87
p0 0.4967 ± 0.04111
pull
Entries 88
Mean 1.143e+04
Std Dev 0
pull1D
Entries 88
Mean 0.0005356
Std Dev 1.128

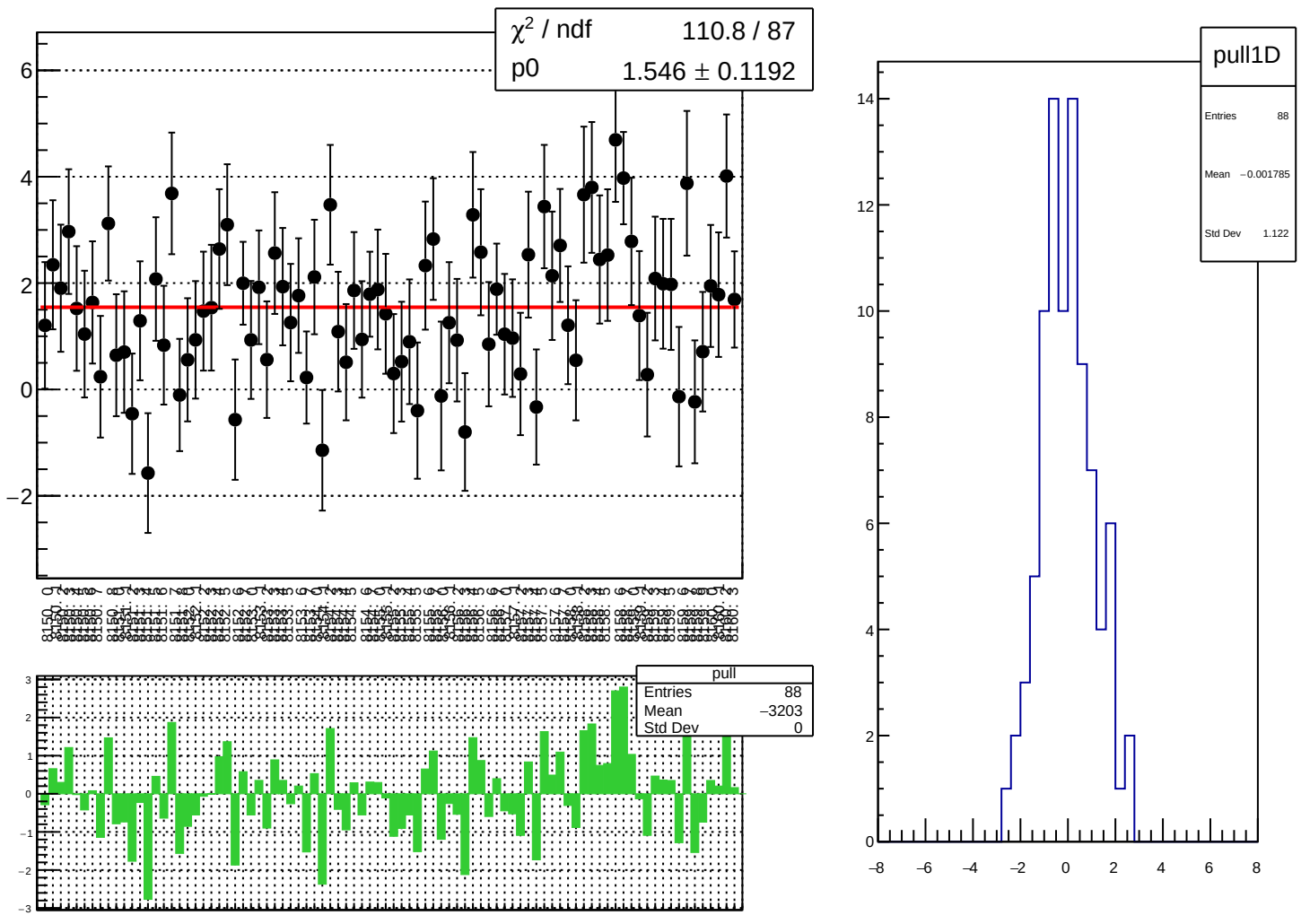

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.45 / 87
p0 0.2316 ± 0.07703
pull
Entries 88
Mean −2.969e+04
Std Dev 0
pull1D
Entries 88
Mean −3.231e−05
Std Dev 0.9561

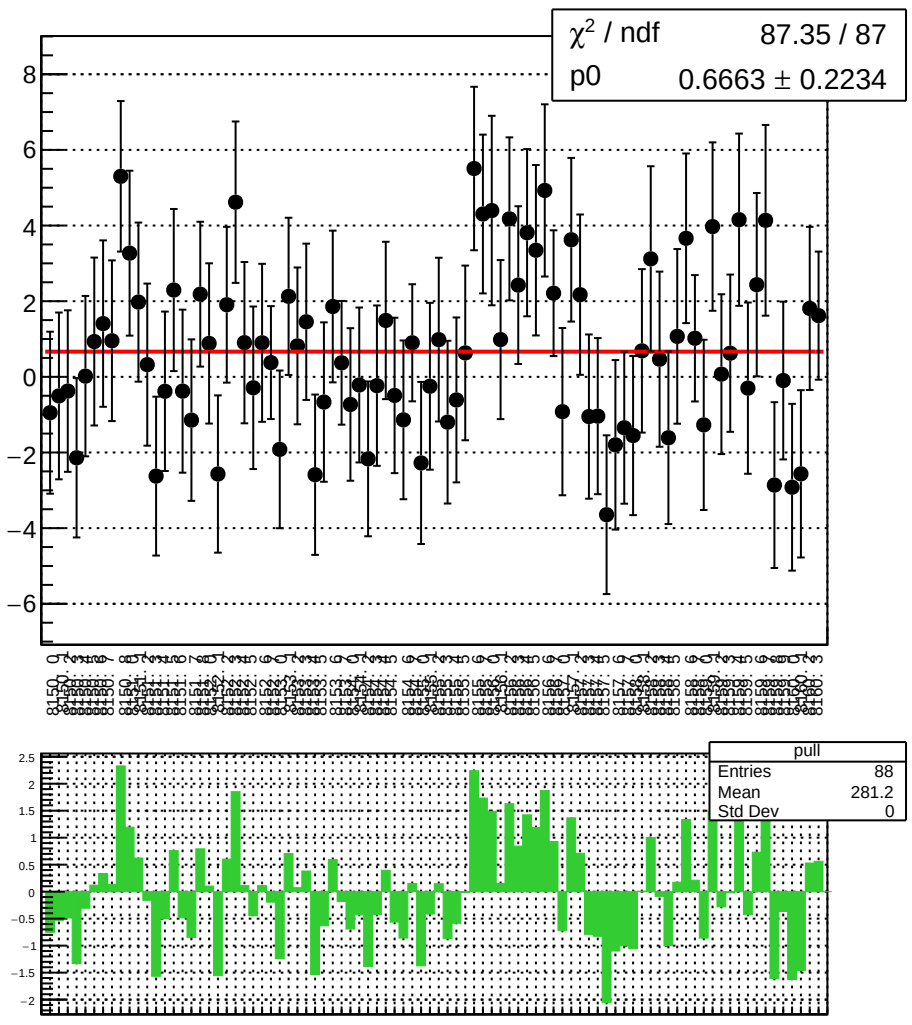

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 106.2 / 87
p0 −0.4598 ± 0.04167
pull
Entries 88
Mean −1219
Std Dev 0

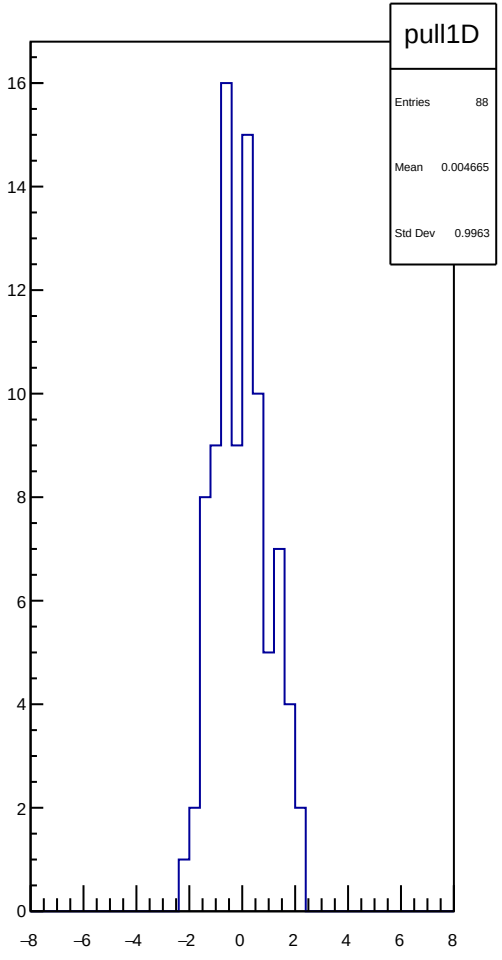

pull1D
Entries 88
Mean 0.00336
Std Dev 1.099

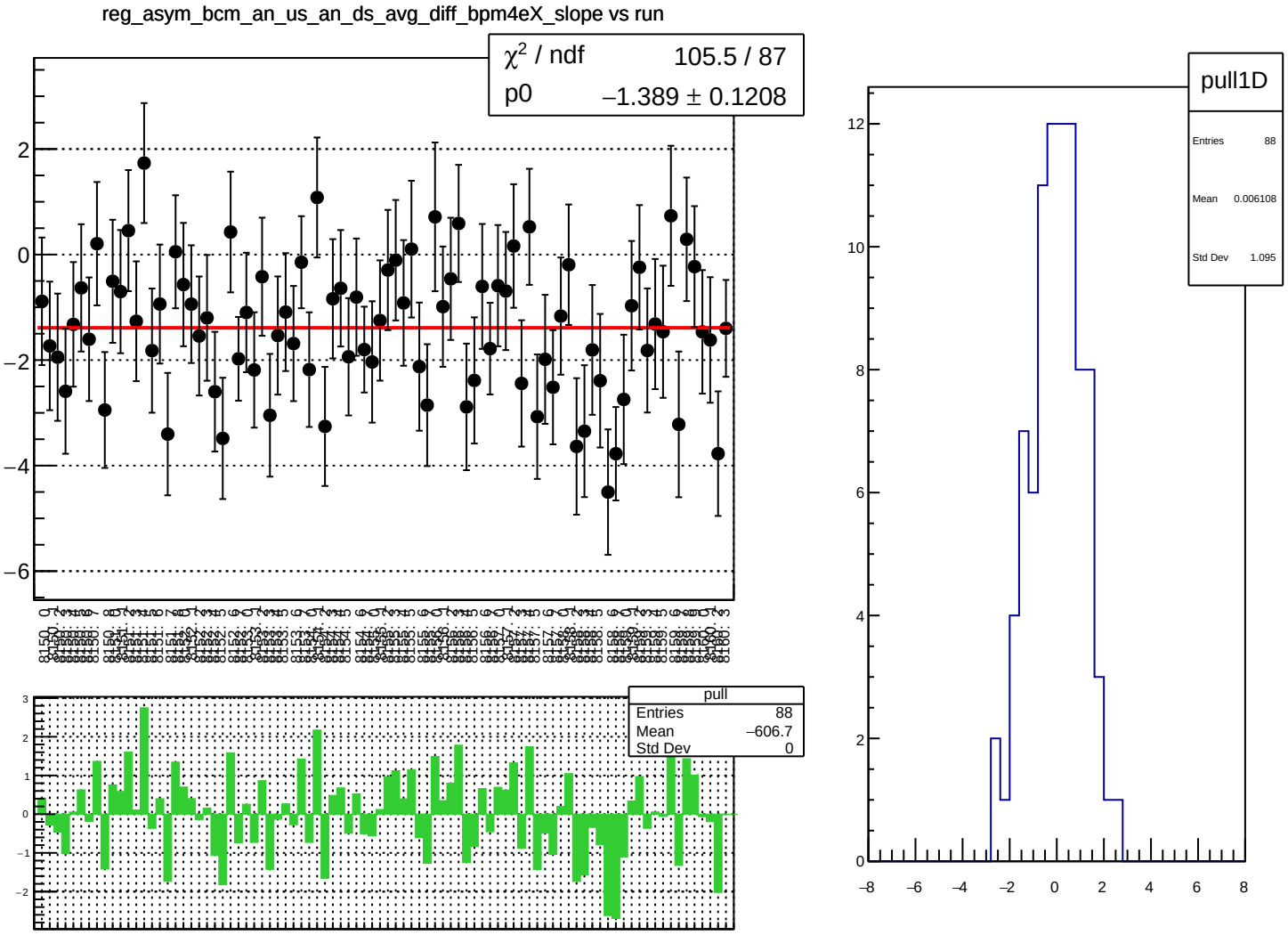

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.36 / 87
p0 −0.2273 ± 0.08255
pull
Entries 88
Mean −119.3
Std Dev 0
pull1D
Entries 88
Mean 0.001811
Std Dev 0.9615

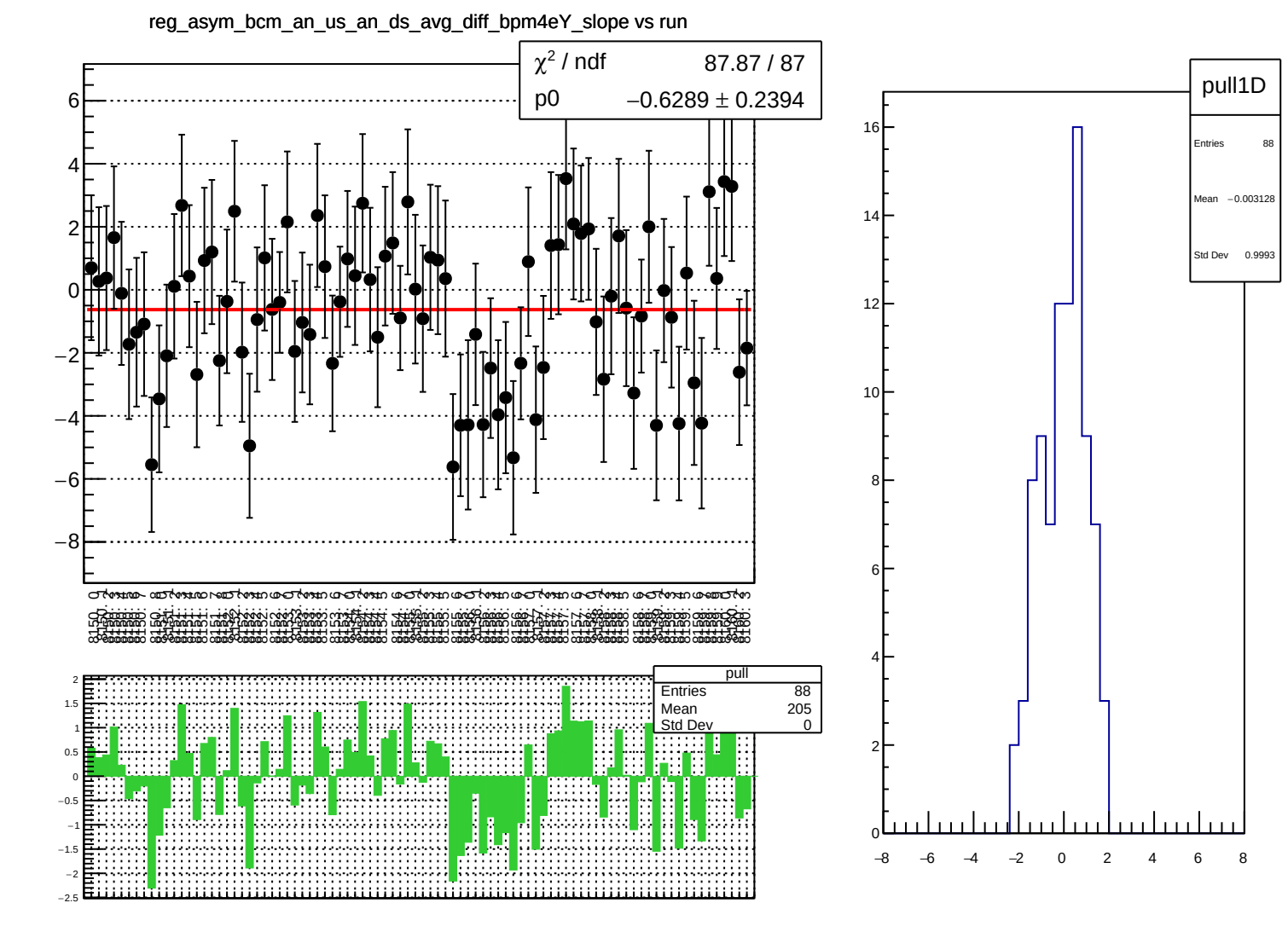

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 94.01 / 87
p0 0.01908 ± 0.003864
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 250.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.02878
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

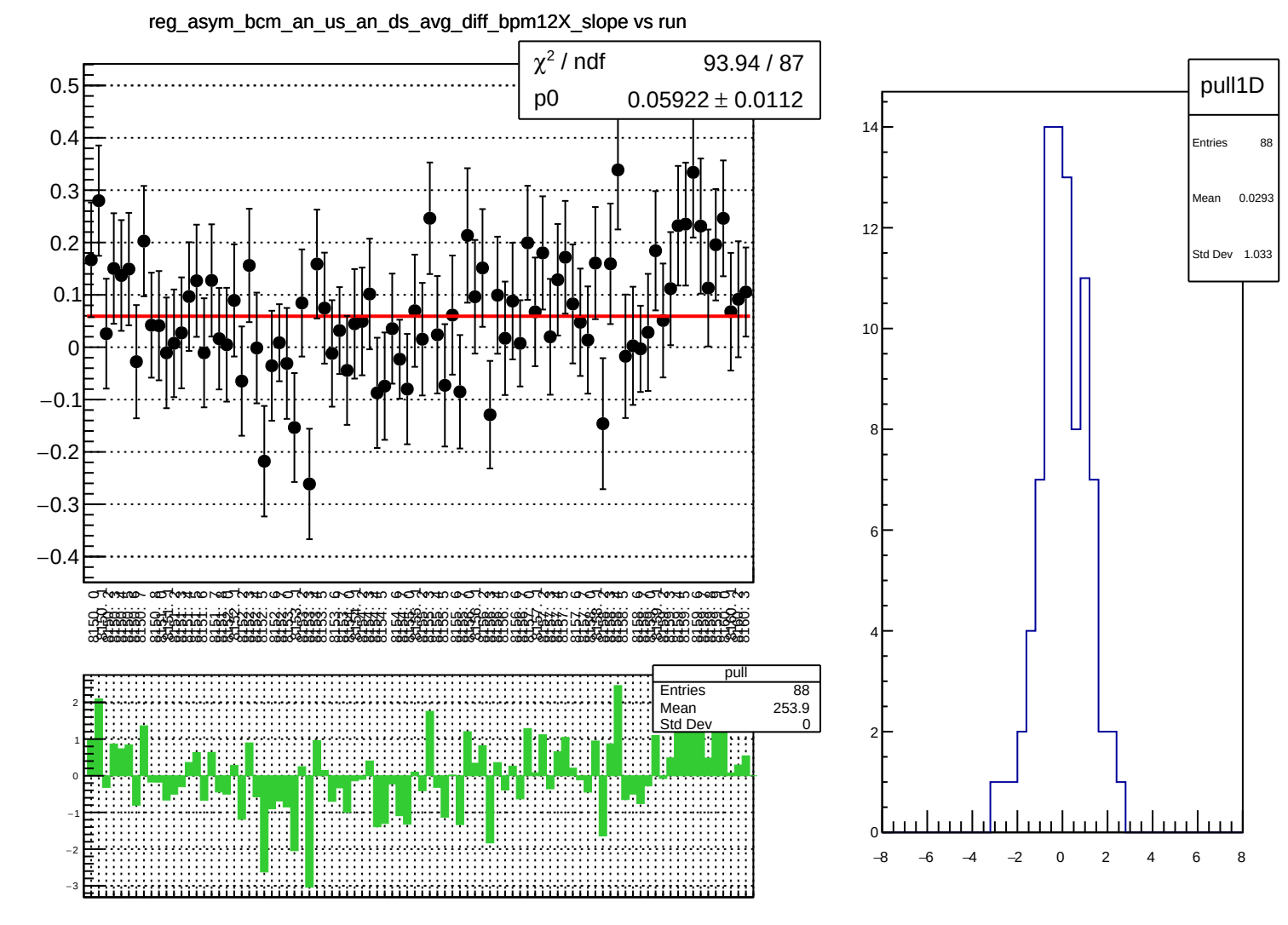

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 110.8 / 87
p0 1.546 ± 0.1192
pull
Entries 88
Mean −3203
Std Dev 0
pull1D
Entries 88
Mean −0.001785
Std Dev 1.122

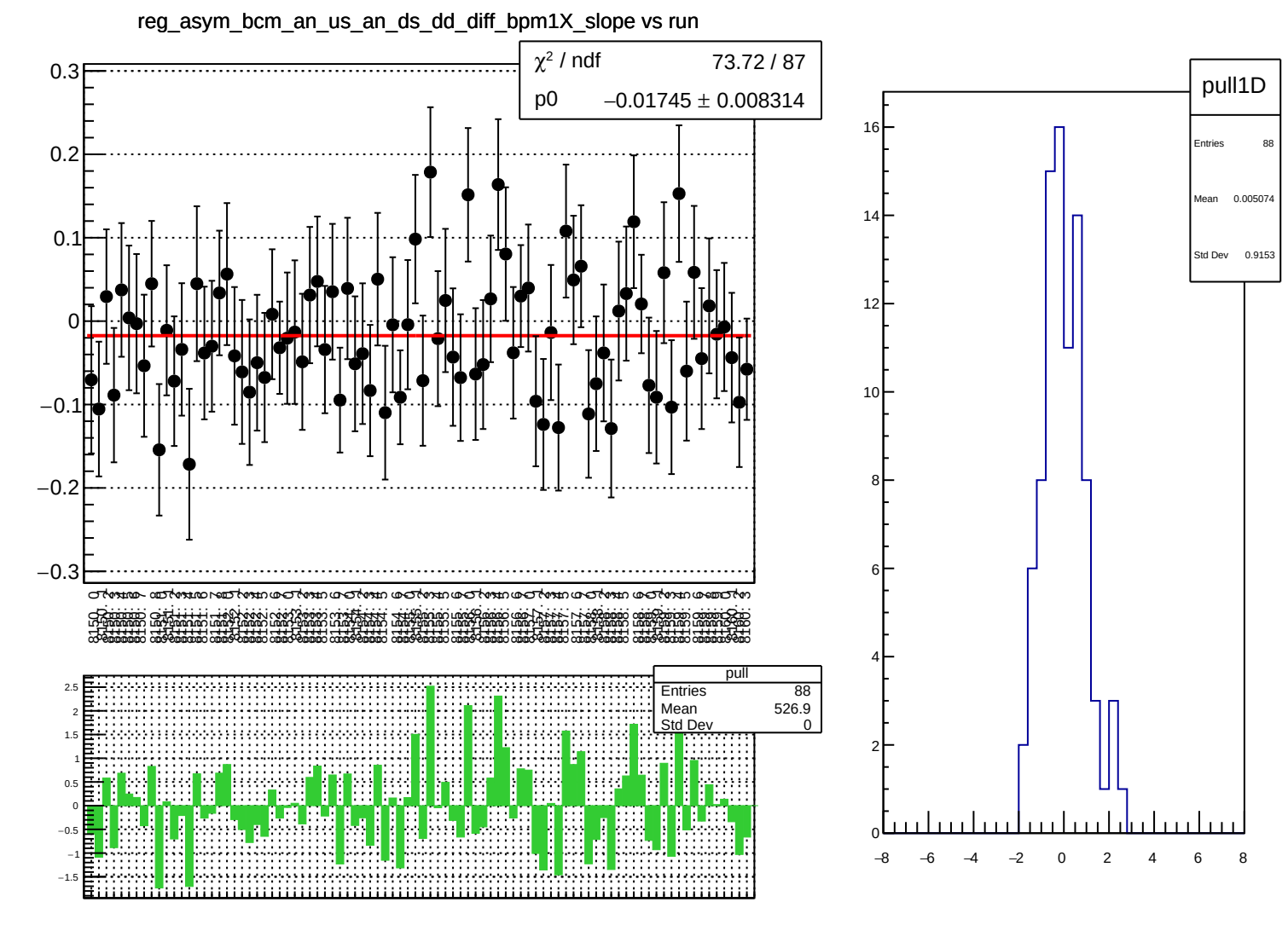

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 87.35 / 87
p0 0.6663 ± 0.2234
pull
Entries 88
Mean 281.2
Std Dev 0

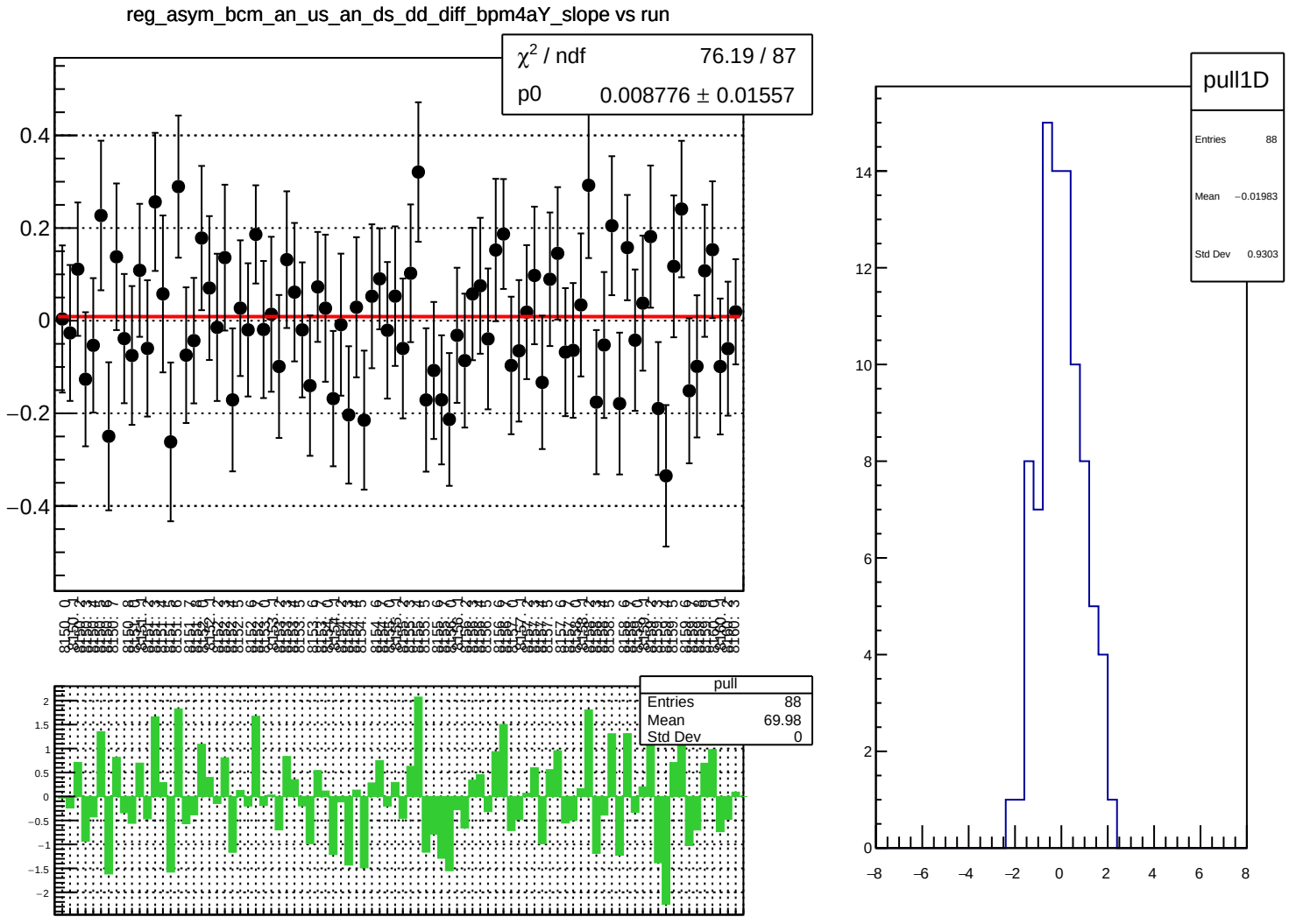

pull1D
Entries 88
Mean 0.004665
Std Dev 0.9963

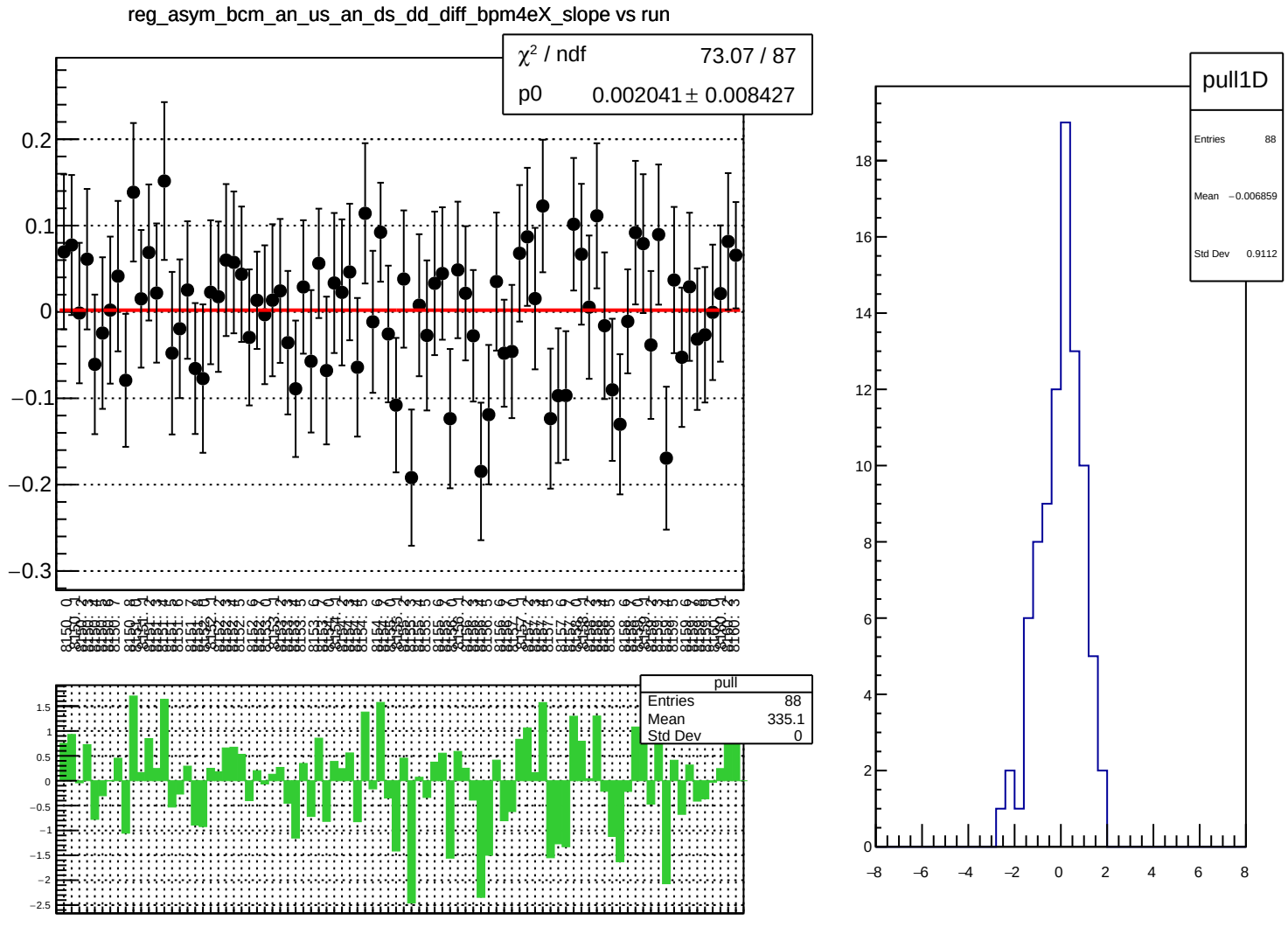

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 105.5 / 87
p0 −1.389 ± 0.1208
pull
Entries 88
Mean −606.7
Std Dev 0
pull1D
Entries 88
Mean 0.006108
Std Dev 1.095

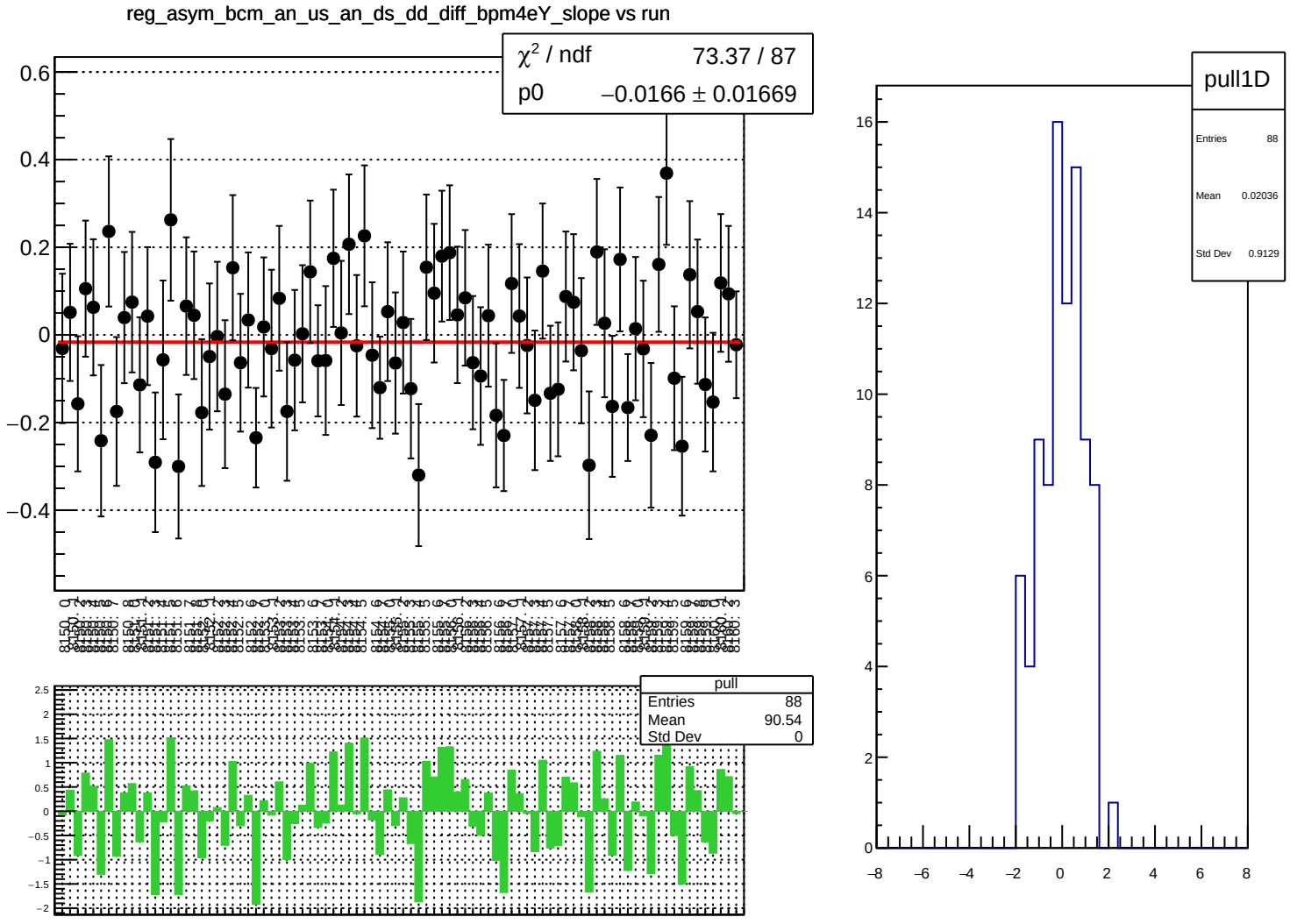

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 87.87 / 87
p0 −0.6289 ± 0.2394
pull
Entries 88
Mean 205
Std Dev 0
pull1D
Entries 88
Mean −0.003128
Std Dev 0.9993

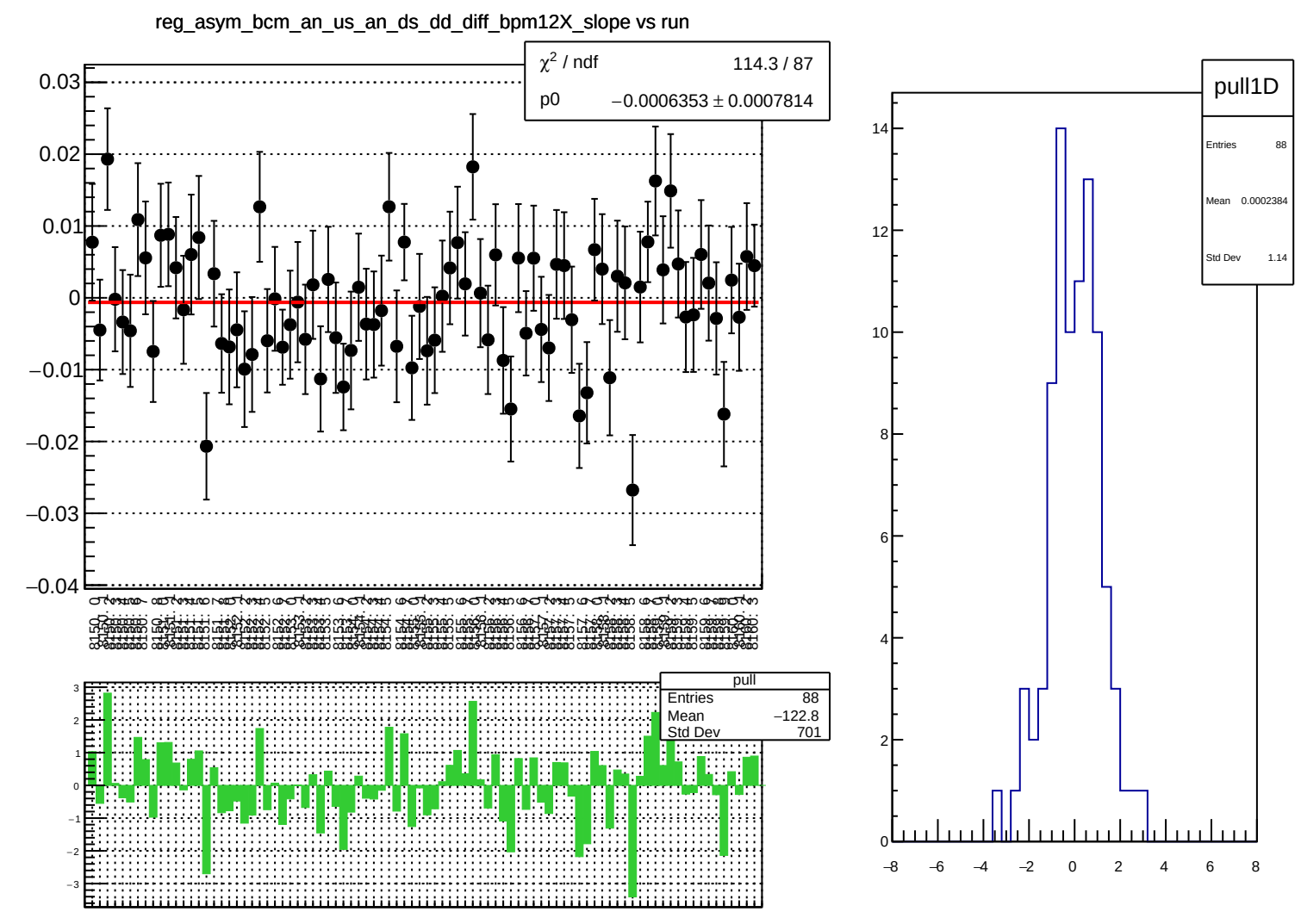

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 93.94 / 87
p0 0.05922 ± 0.0112
pull
Entries 88
Mean 253.9
Std Dev 0
pull1D
Entries 88
Mean 0.0293
Std Dev 1.033

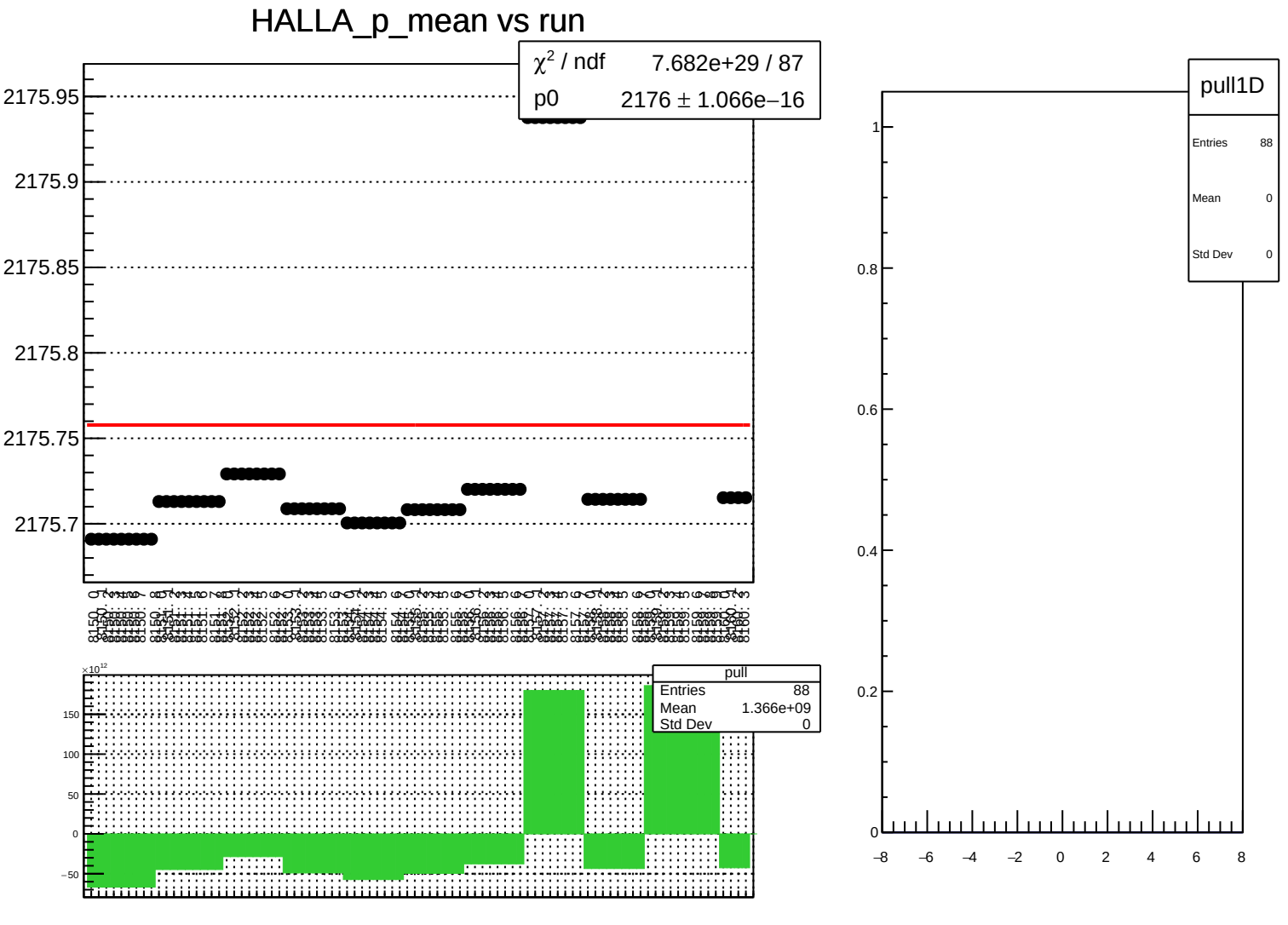

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 73.72 / 87
p0 −0.01745 ± 0.008314
pull
Entries 88
Mean 526.9
Std Dev 0
pull1D
Entries 88
Mean 0.005074
Std Dev 0.9153

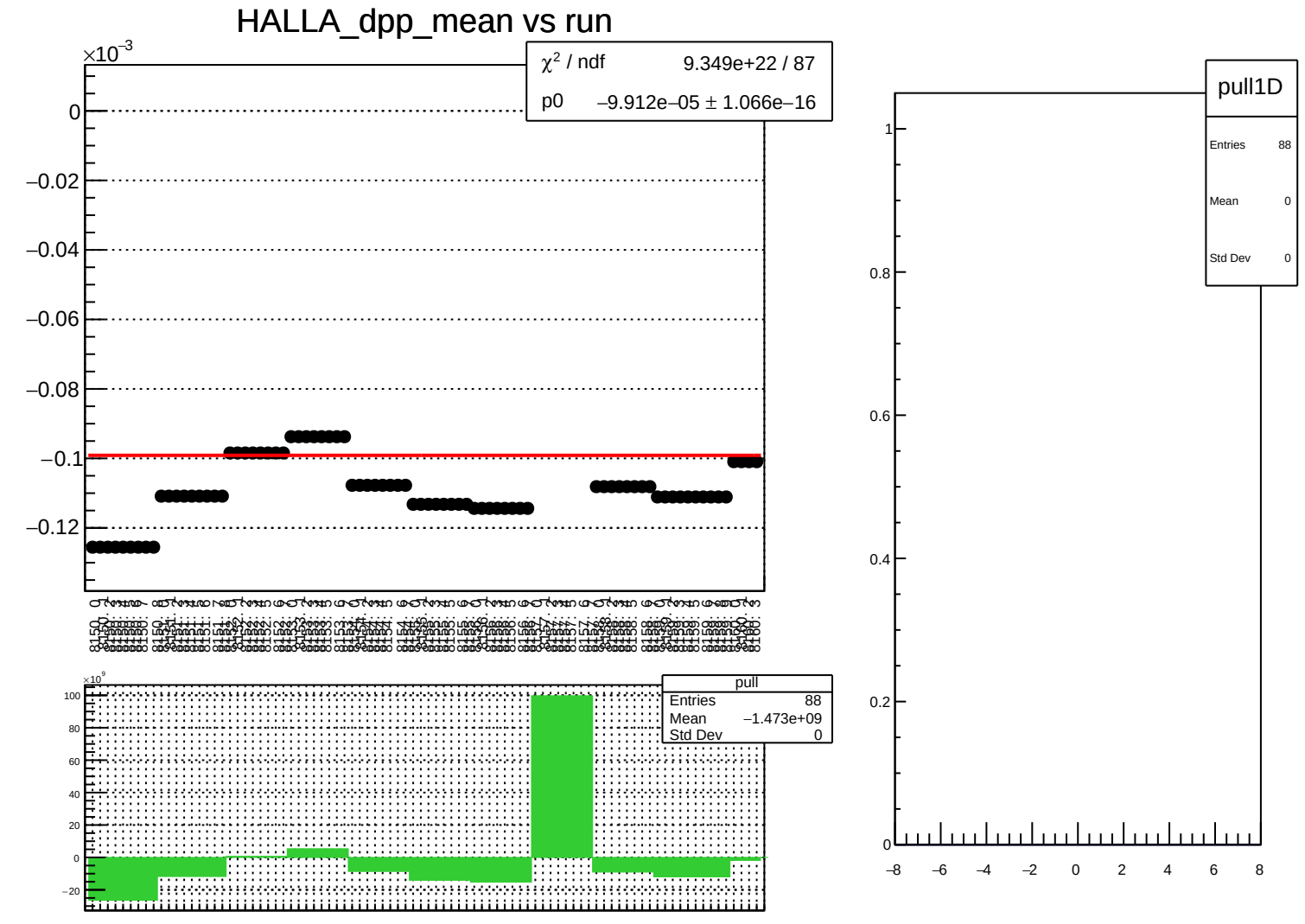

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.19 / 87
p0 0.008776 ± 0.01557
pull
Entries 88
Mean 69.98
Std Dev 0
pull1D
Entries 88
Mean −0.01983
Std Dev 0.9303

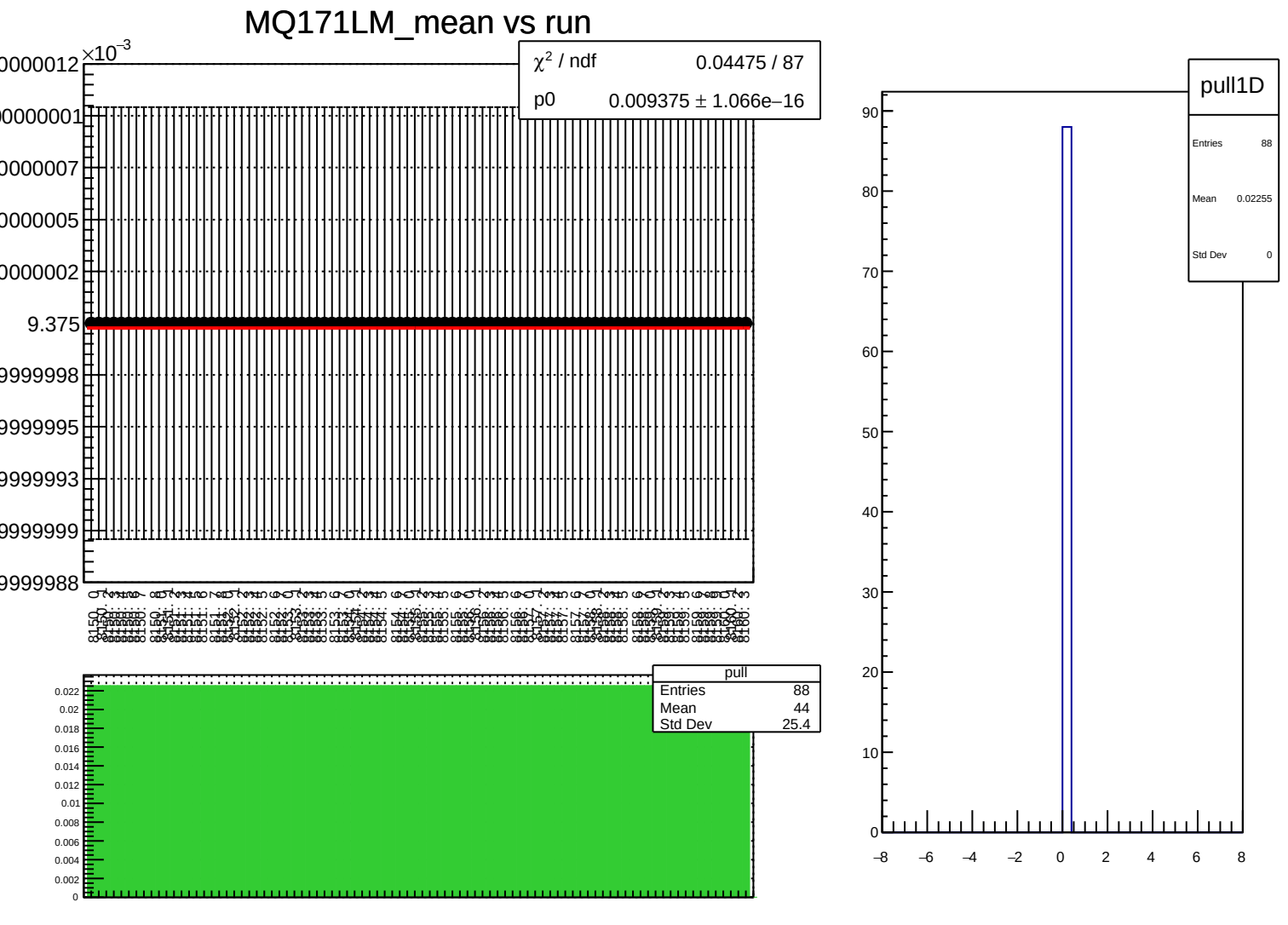

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.07 / 87
p0 0.002041 ± 0.008427
pull
Entries 88
Mean 335.1
Std Dev 0
pull1D
Entries 88
Mean −0.006859
Std Dev 0.9112

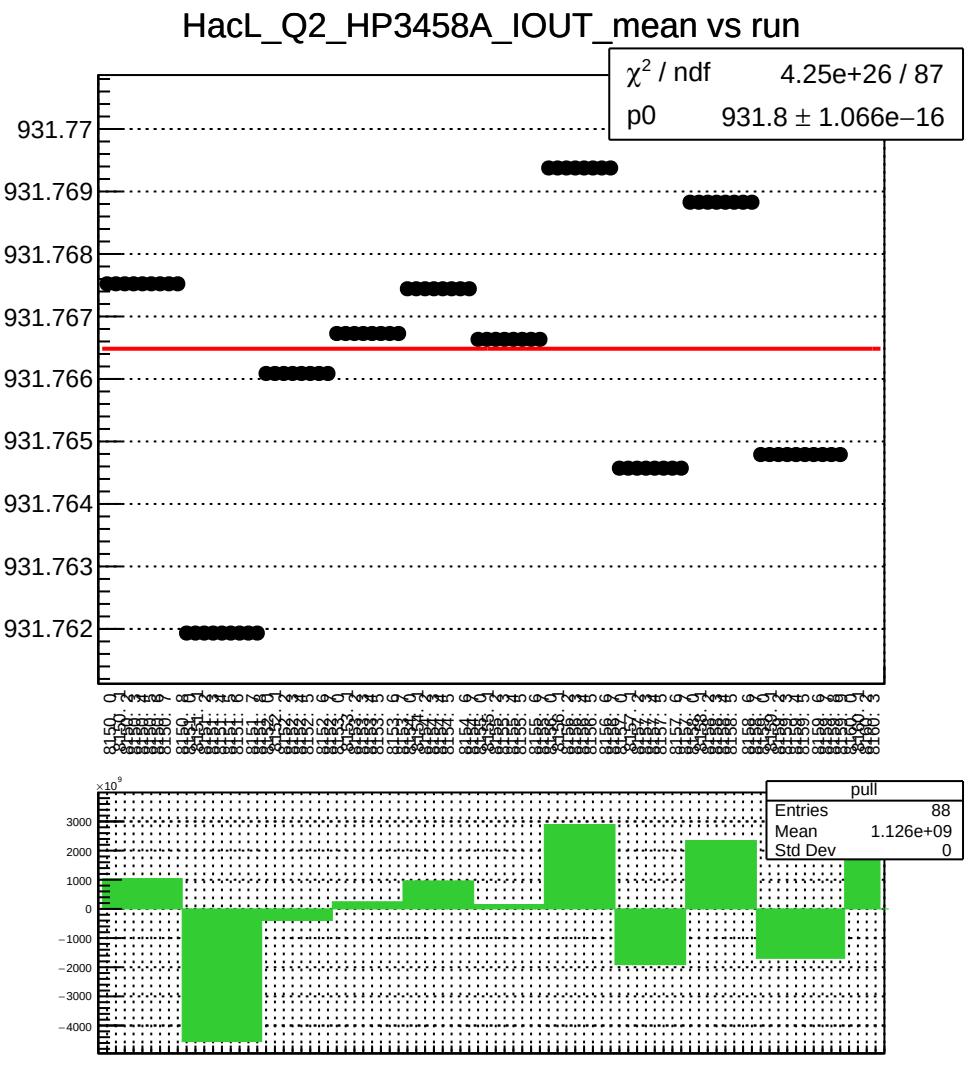

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.37 / 87
p0 −0.0166 ± 0.01669
pull
Entries 88
Mean 90.54
Std Dev 0
pull1D
Entries 88
Mean 0.02036
Std Dev 0.9129

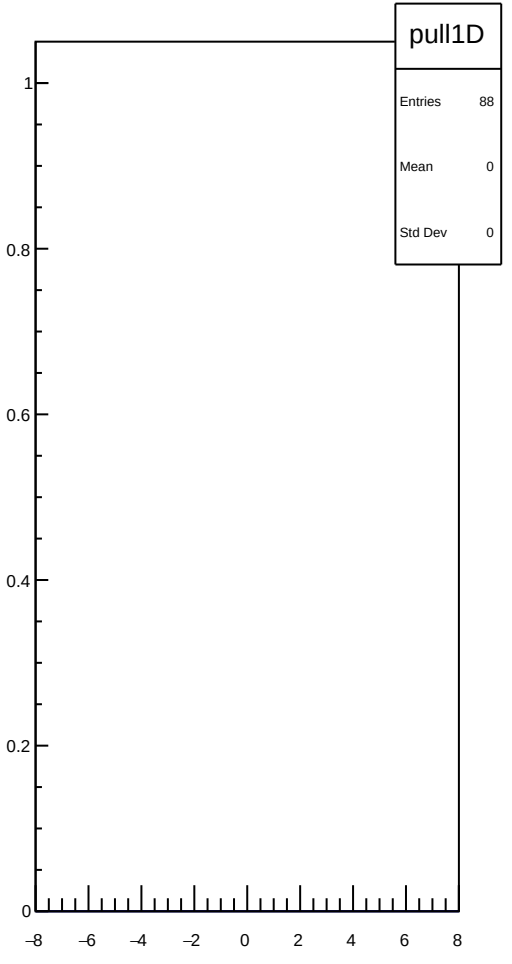

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 114.3 / 87
p0 −0.0006353 ± 0.0007814
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 88
Mean −122.8
Std Dev 701
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0002384
Std Dev 1.14
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

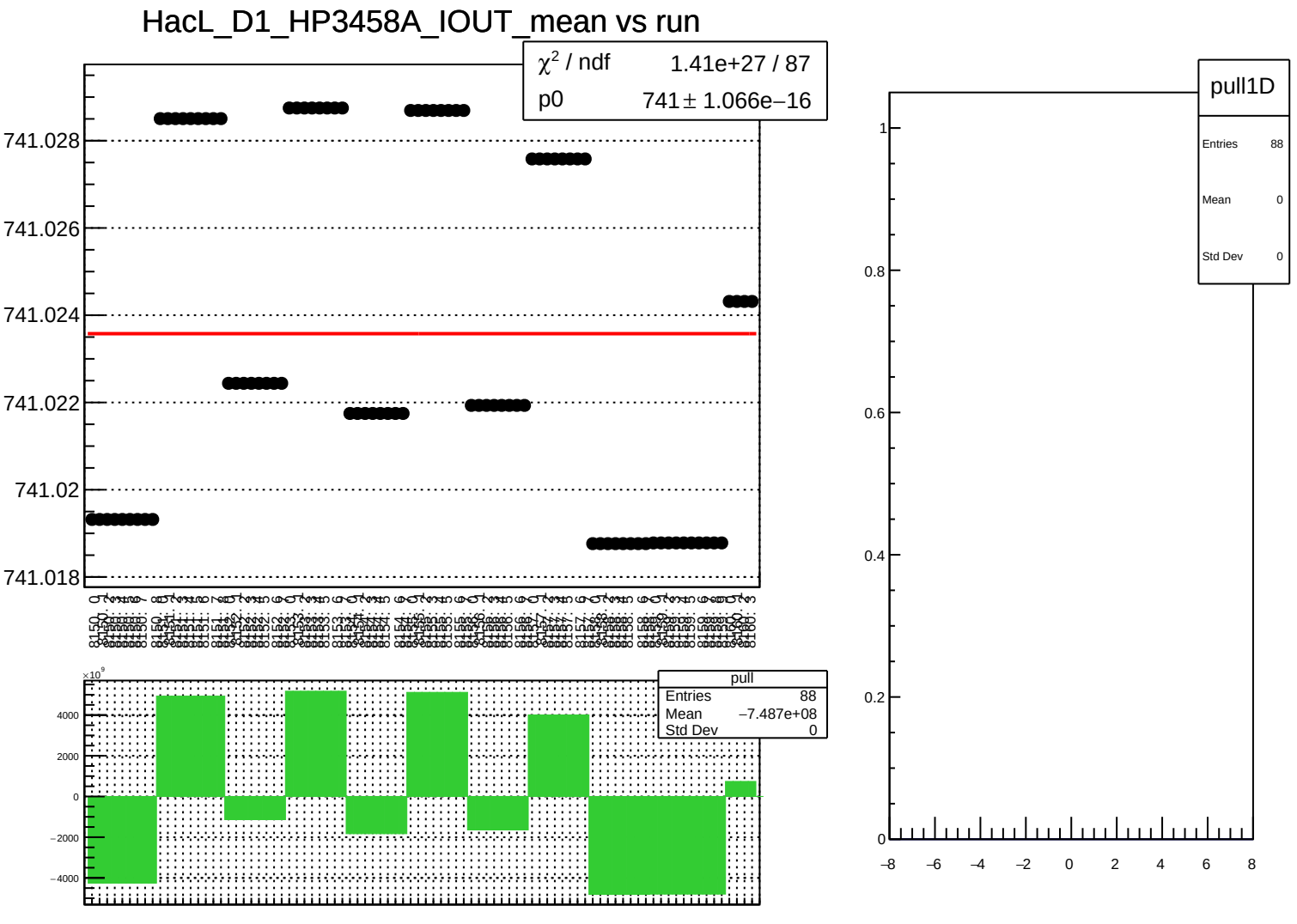

HALLA_p_mean vs run
χ² / ndf 7.682e+29 / 87
p0 2176 ± 1.066e−16
2175.95
2175.9
2175.85
2175.8
2175.75
2175.7
pull
Entries 88
Mean 1.366e+09
Std Dev 0
×10¹²
150
100
50
0
−50
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

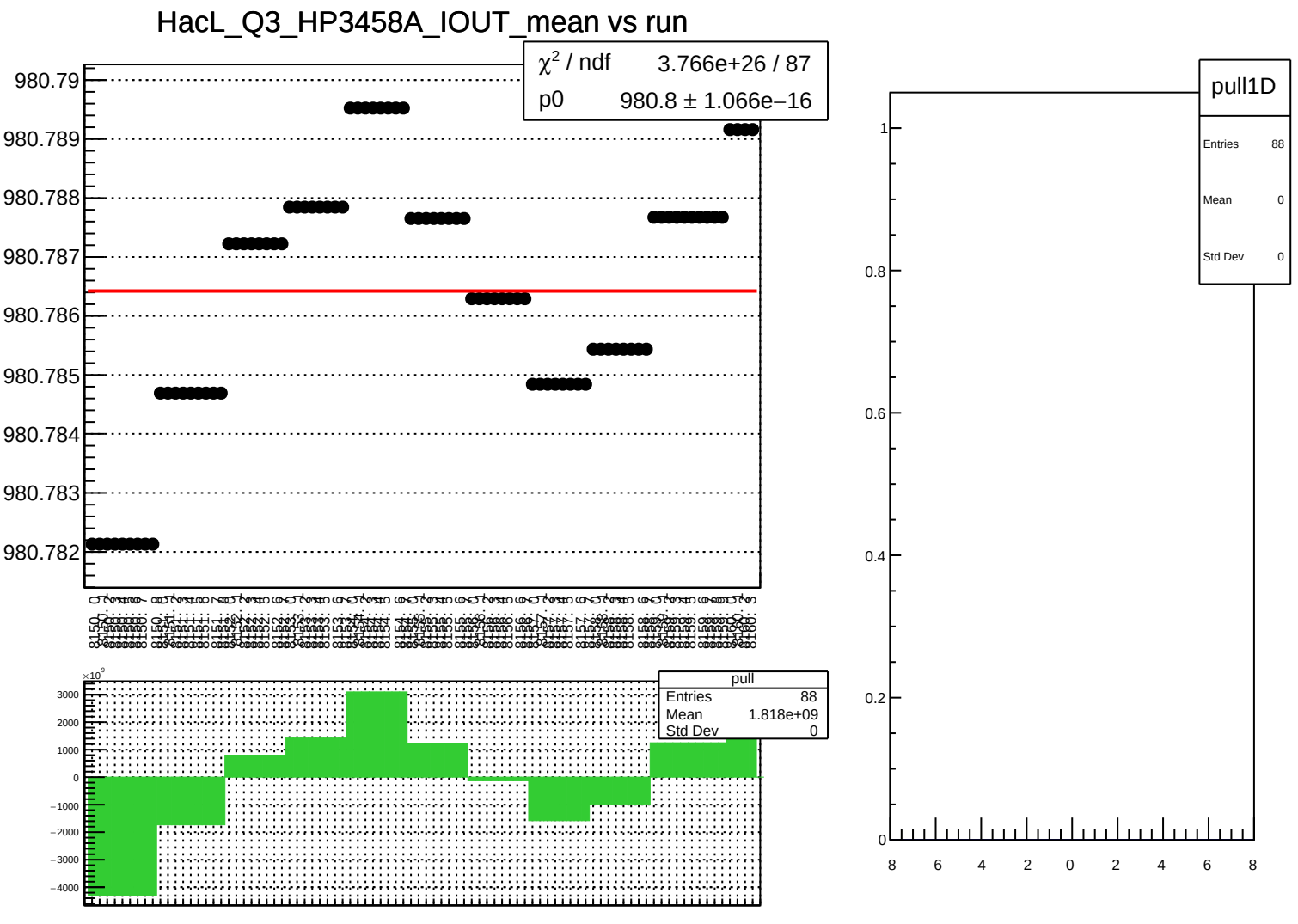

HALLA_dpp_mean vs run
χ² / ndf 9.349e+22 / 87
p0 −9.912e−05 ± 1.066e−16
×10⁻³
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 88
Mean −1.473e+09
Std Dev 0
×10⁹
100
80
60
40
20
0
−20
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

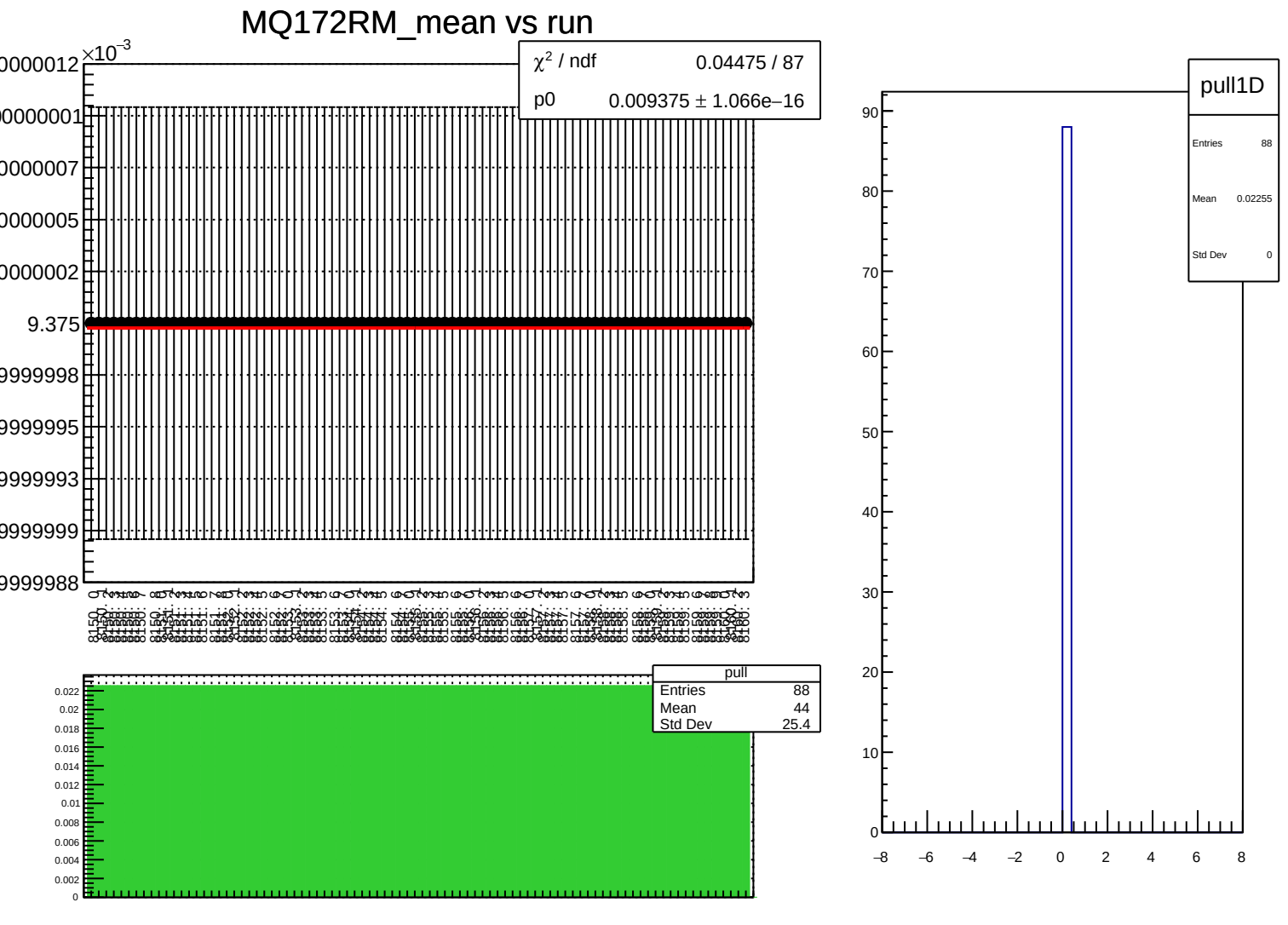

MQ171LM_mean vs run
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
×10⁻³
9.375
pull
Entries 88
Mean 44
Std Dev 25.4
pull1D
Entries 88
Mean 0.02255
Std Dev 0

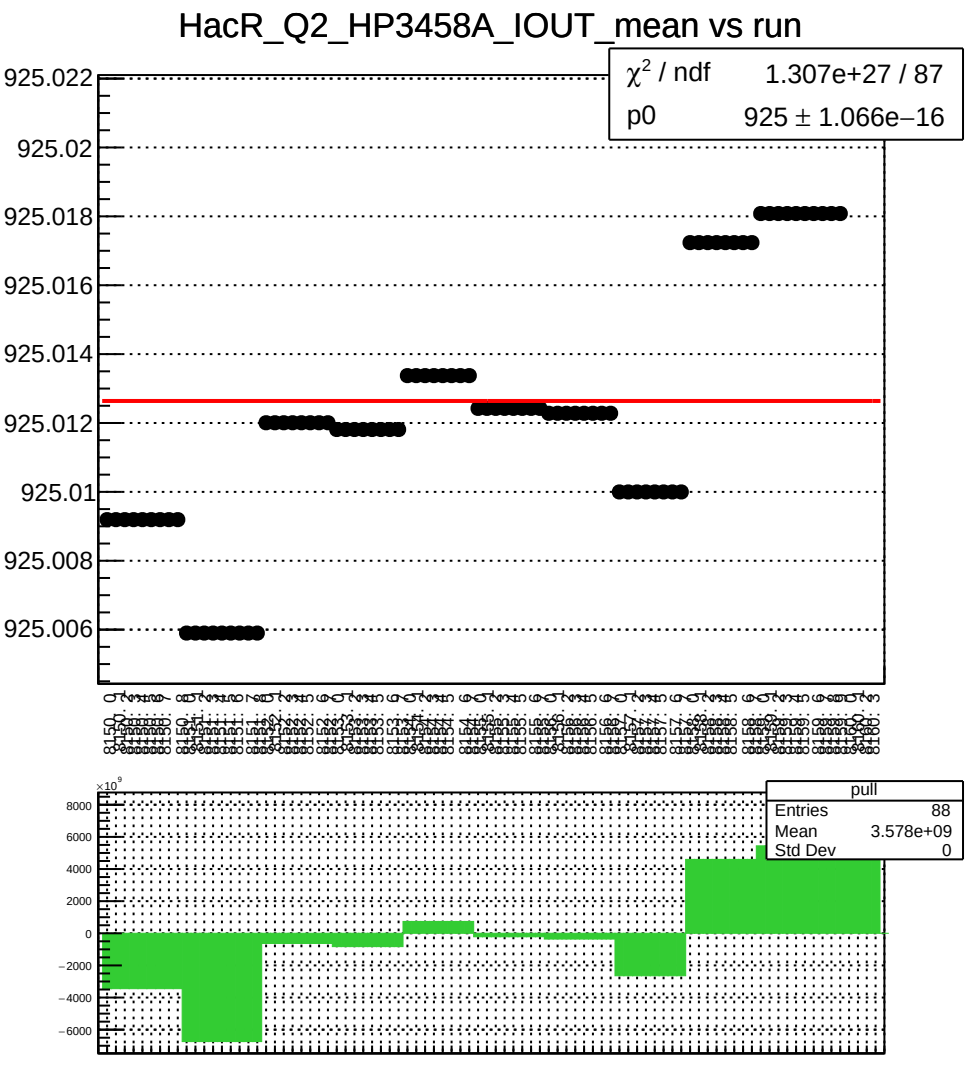

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.25e+26 / 87
p0 931.8 ± 1.066e−16
931.77
931.769
931.768
931.767
931.766
931.765
931.764
931.763
931.762
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean 1.126e+09
Std Dev 0

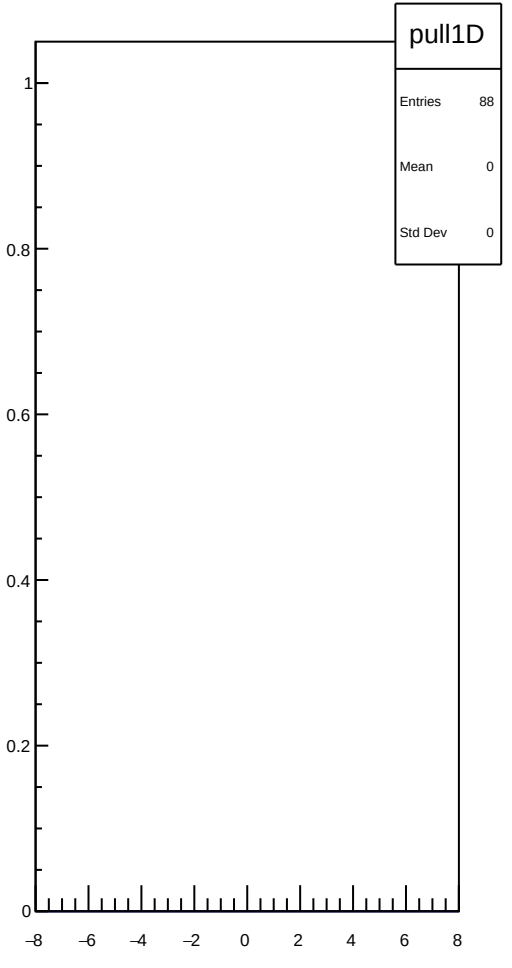

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

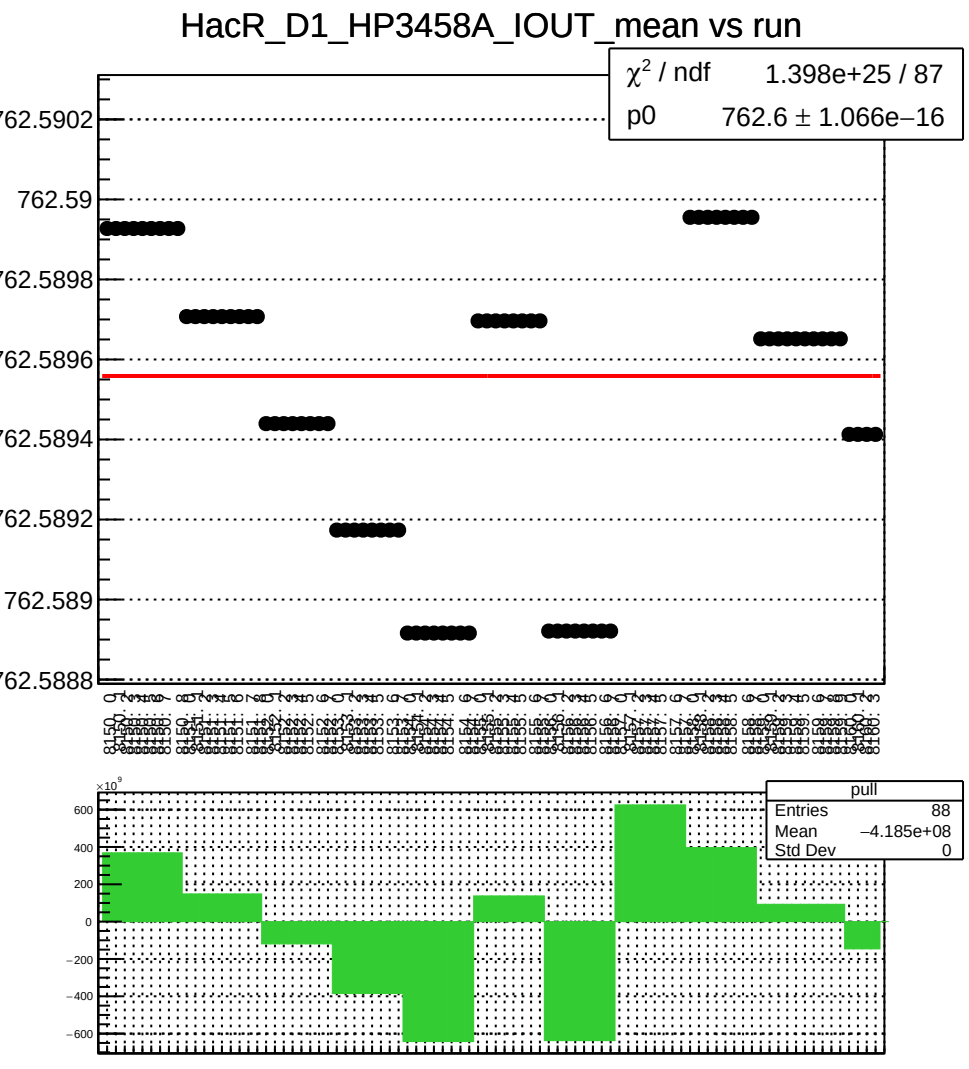

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.41e+27 / 87
p0 741 ± 1.066e−16
741.028
741.026
741.024
741.022
741.02
741.018
pull
Entries 88
Mean −7.487e+08
Std Dev 0
×10⁹
4000
2000
0
−2000
−4000
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

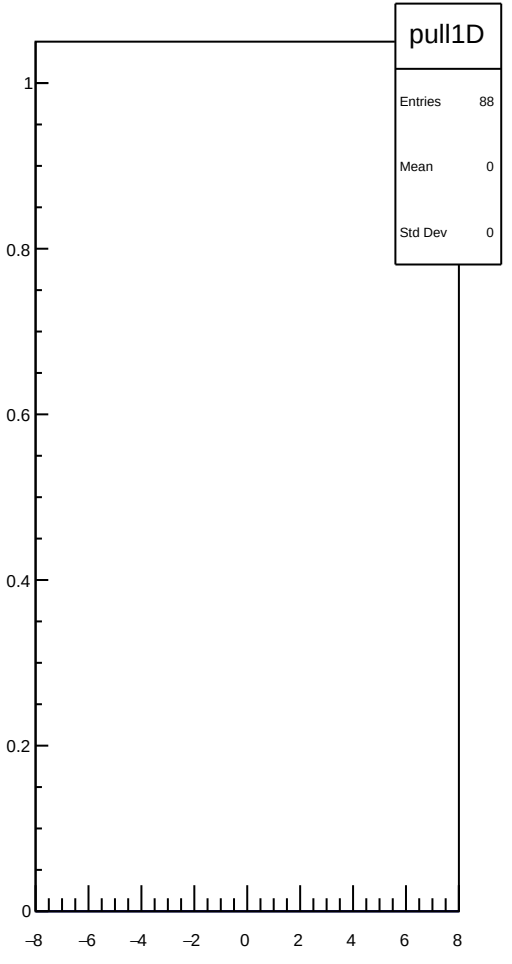

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.766e+26 / 87
p0 980.8 ± 1.066e−16
980.79
980.789
980.788
980.787
980.786
980.785
980.784
980.783
980.782
pull
Entries 88
Mean 1.818e+09
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

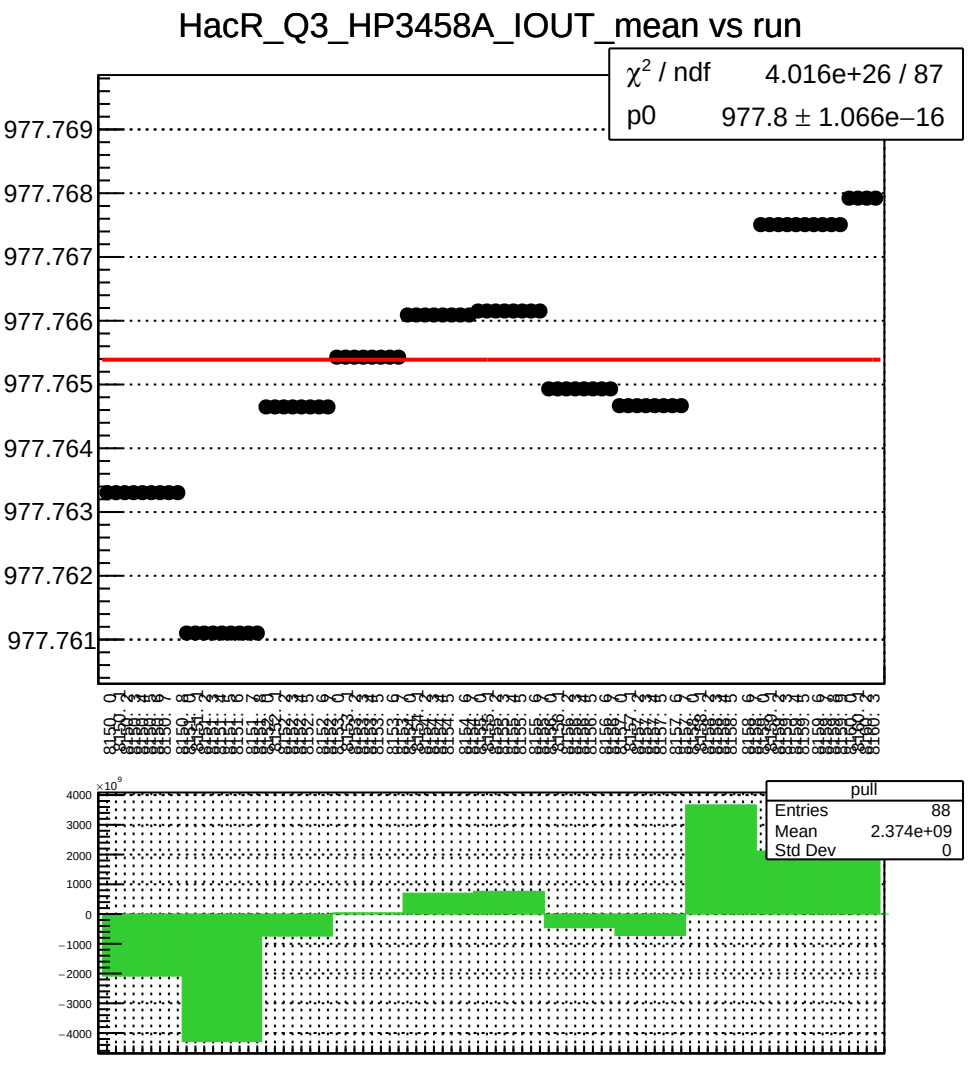

MQ172RM_mean vs run
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
×10⁻³
9.375
pull
Entries 88
Mean 44
Std Dev 25.4
pull1D
Entries 88
Mean 0.02255
Std Dev 0

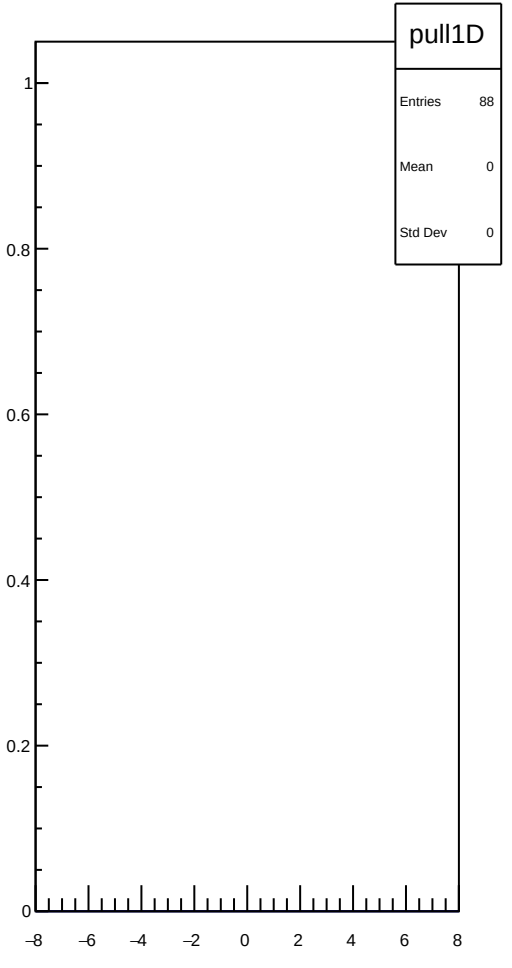

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.307e+27 / 87
p0 925 ± 1.066e−16
925.022
925.02
925.018
925.016
925.014
925.012
925.01
925.008
925.006
pull
Entries 88
Mean 3.578e+09
Std Dev 0
×10⁹
8000
6000
4000
2000
0
−2000
−4000
−6000

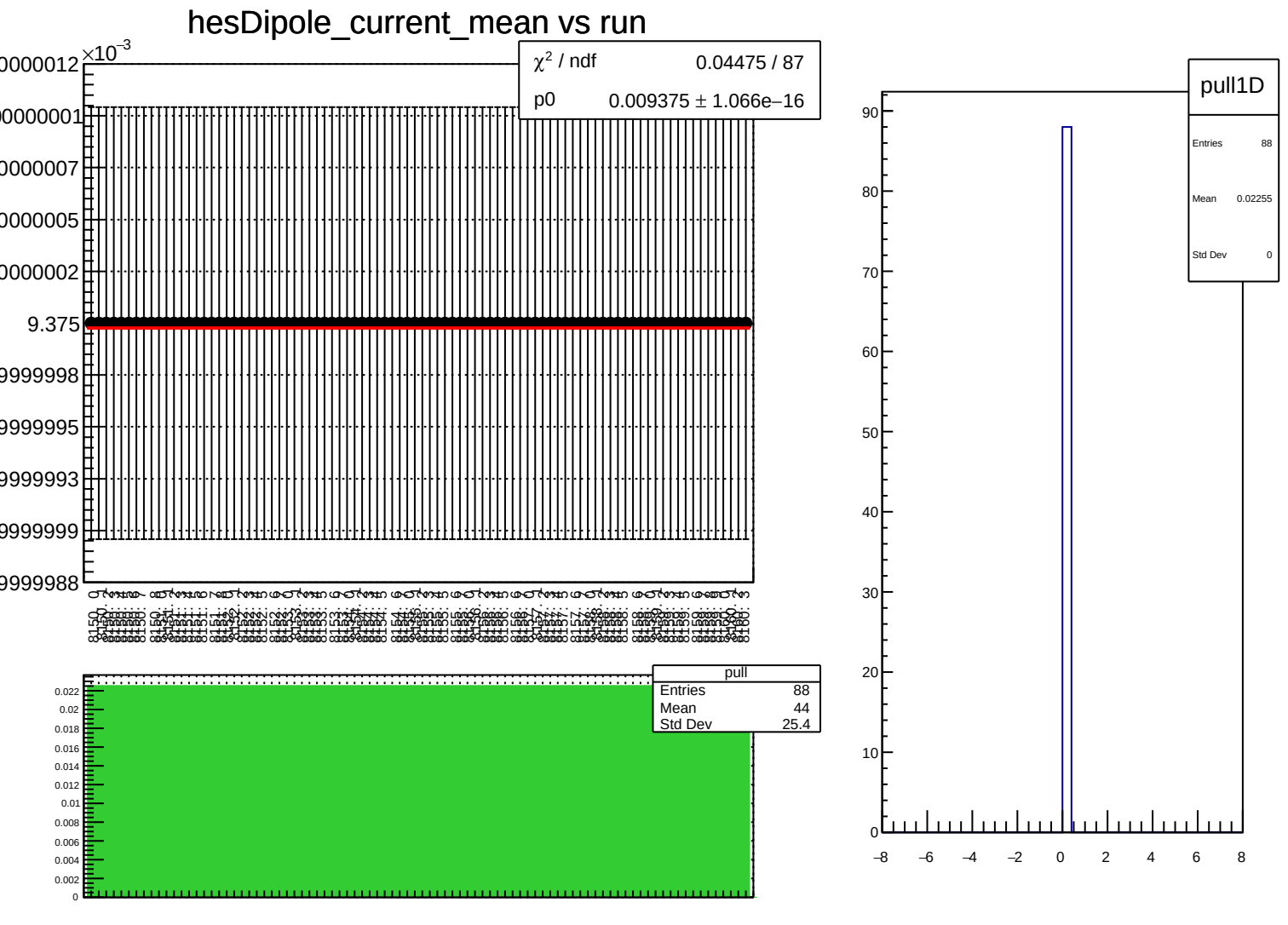

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

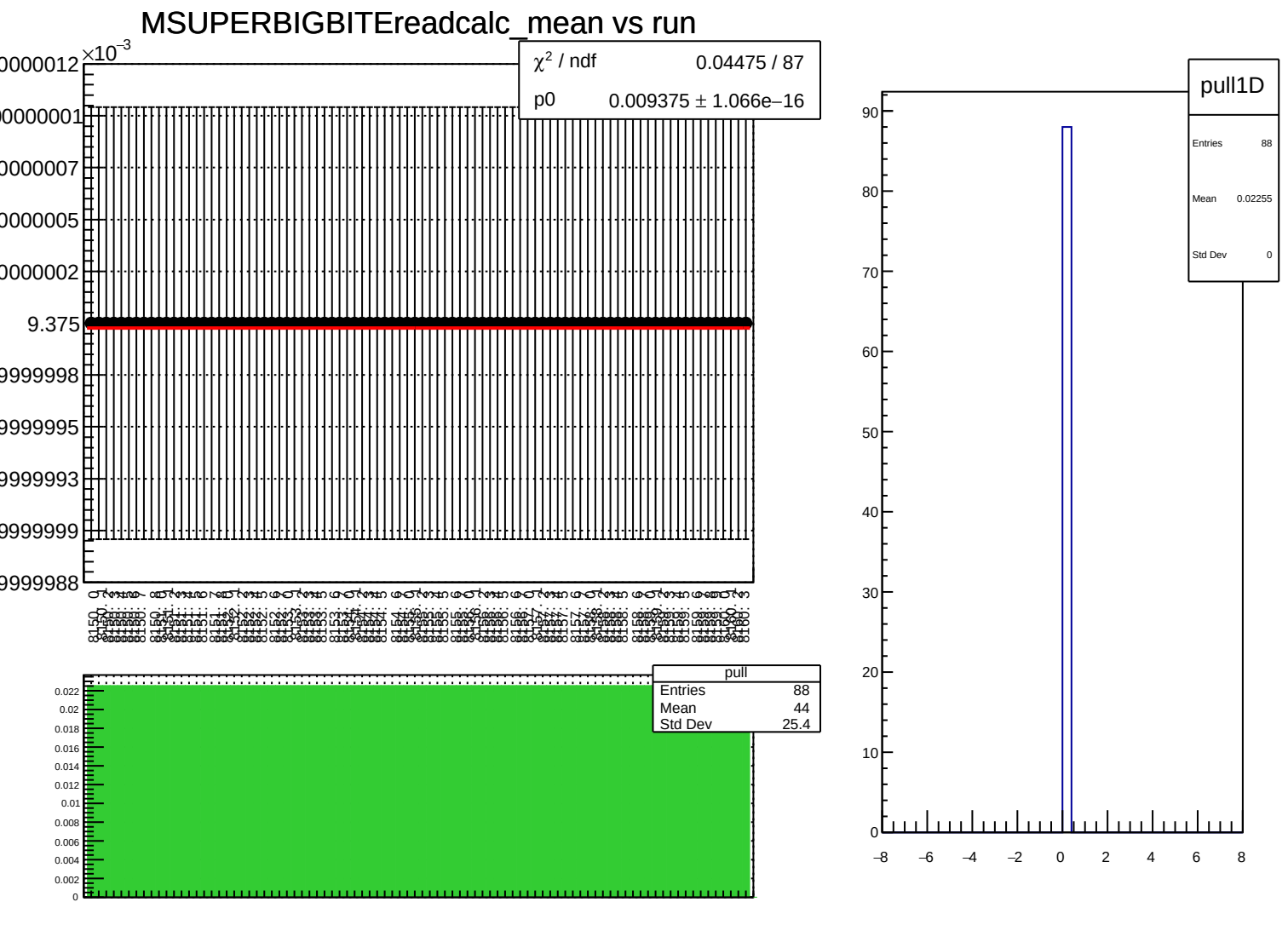

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.398e+25 / 87
p0 762.6 ± 1.066e−16
762.5902
762.59
762.5898
762.5896
762.5894
762.5892
762.589
762.5888
pull
Entries 88
Mean −4.185e+08
Std Dev 0
×10⁹
600
400
200
0
−200
−400
−600

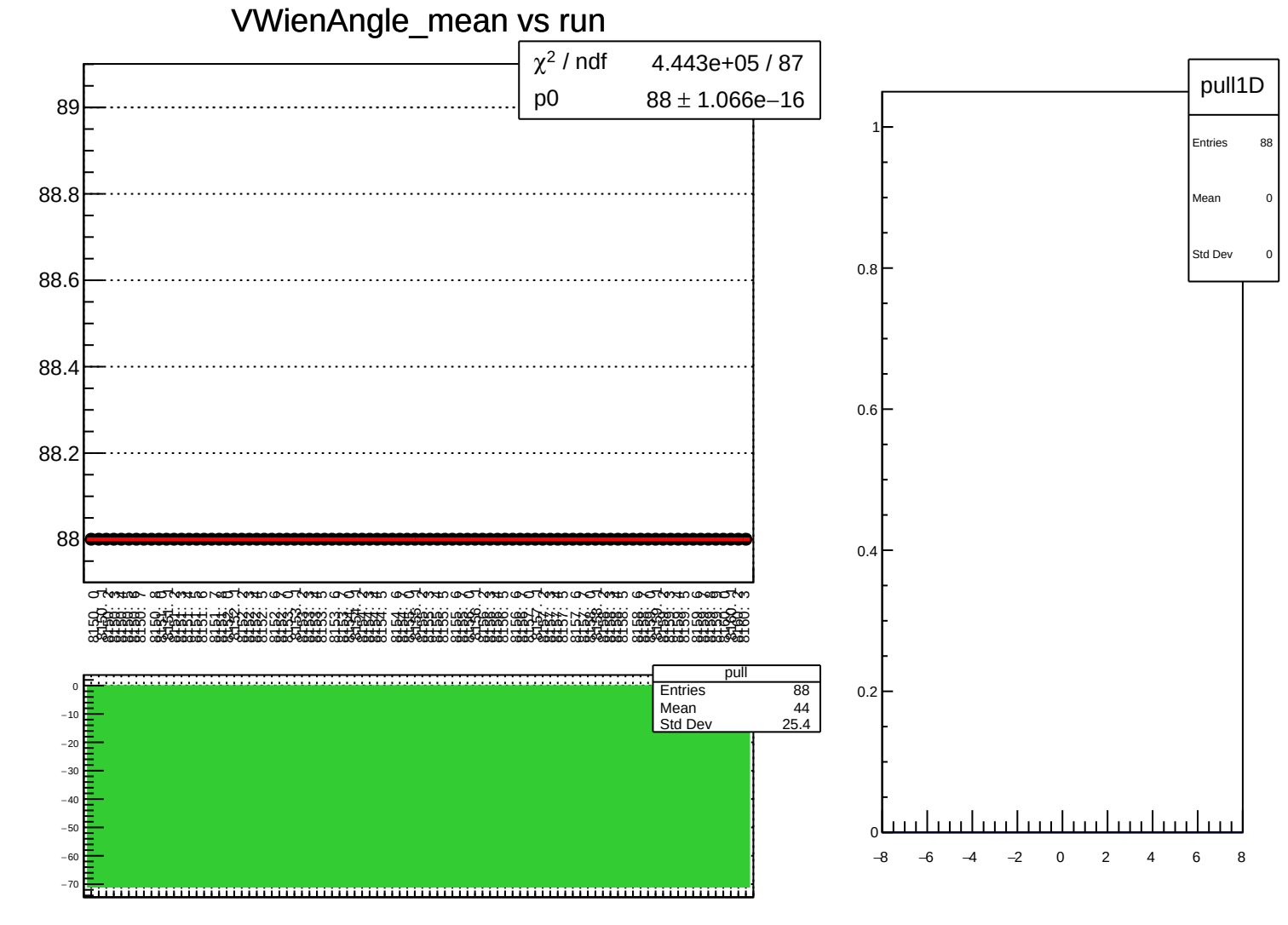

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

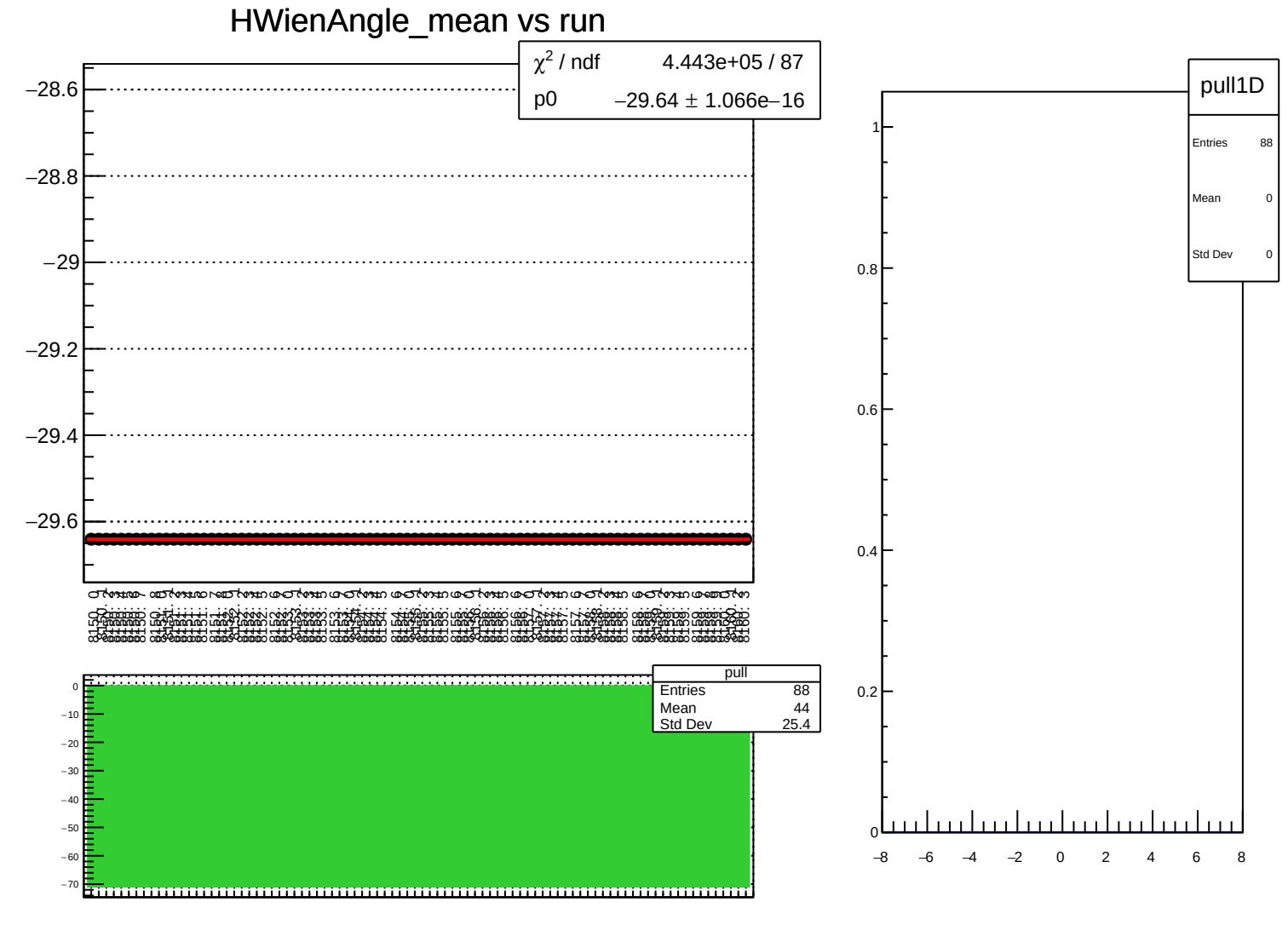

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 4.016e+26 / 87
p0 977.8 ± 1.066e−16
977.769
977.768
977.767
977.766
977.765
977.764
977.763
977.762
977.761
pull
Entries 88
Mean 2.374e+09
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000

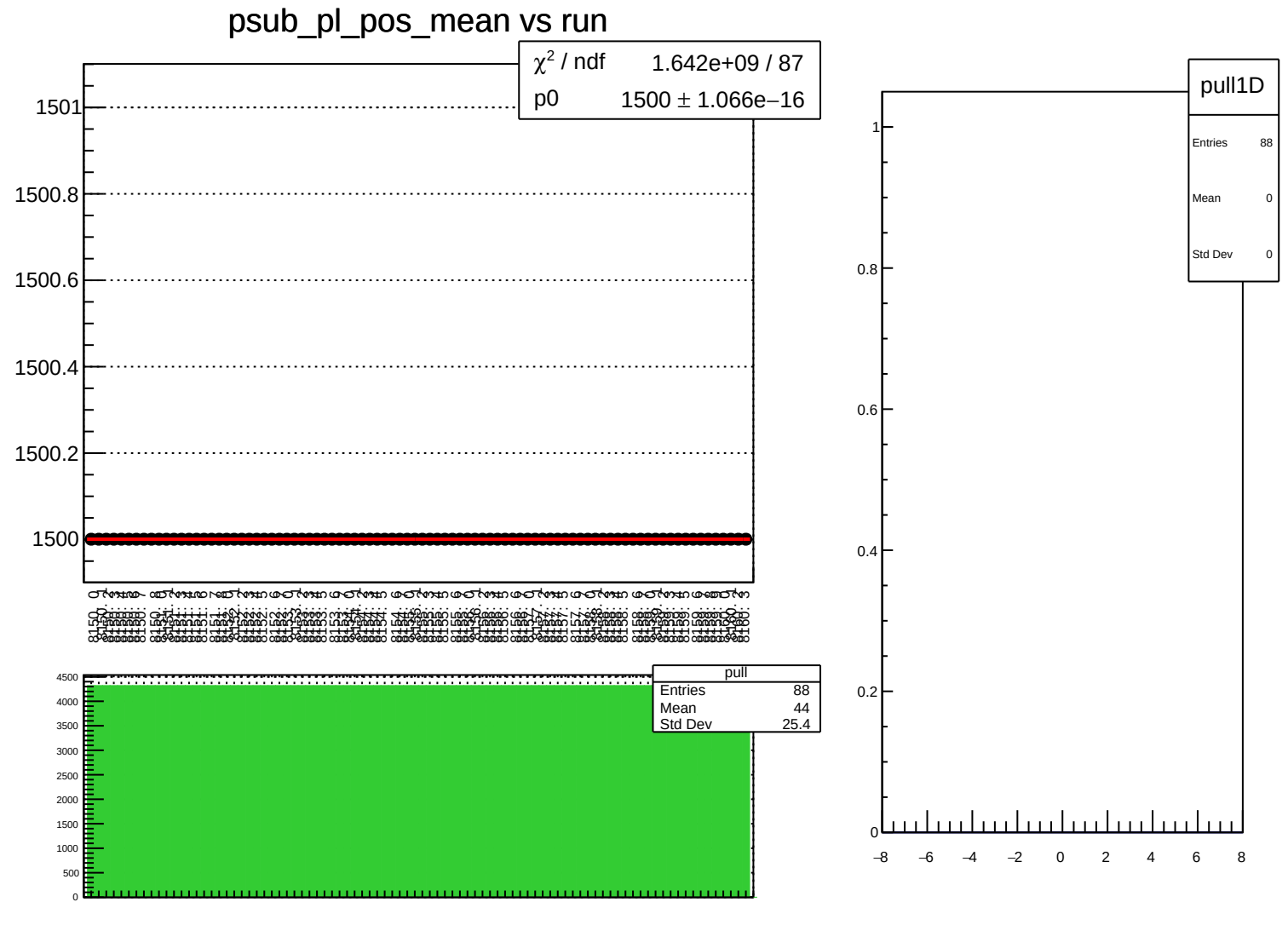

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

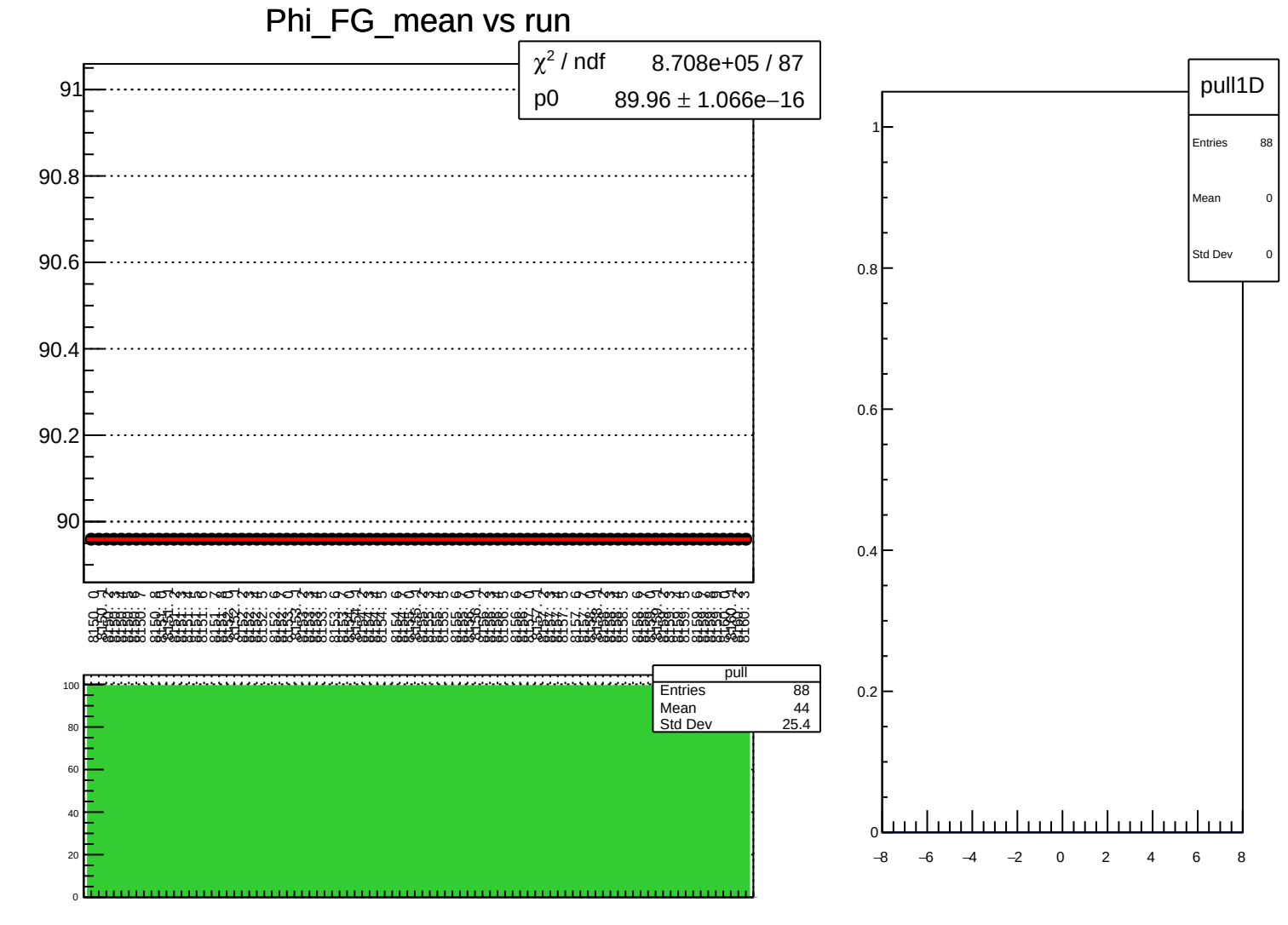

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
9.375
pull
Entries 88
Mean 44
Std Dev 25.4
pull1D
Entries 88
Mean 0.02255
Std Dev 0

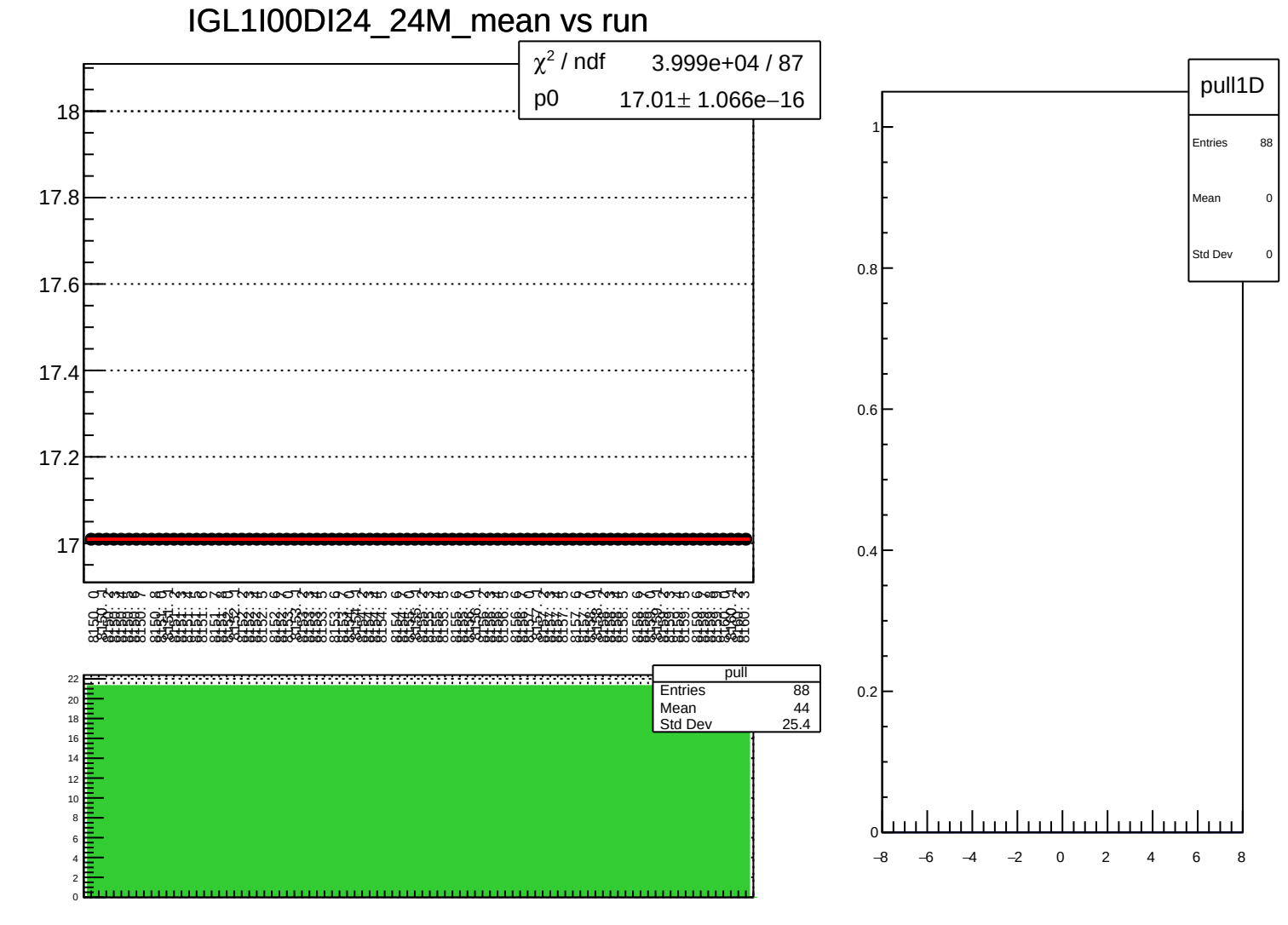

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
×10⁻³
pull
Entries 88
Mean 44
Std Dev 25.4
pull1D
Entries 88
Mean 0.02255
Std Dev 0

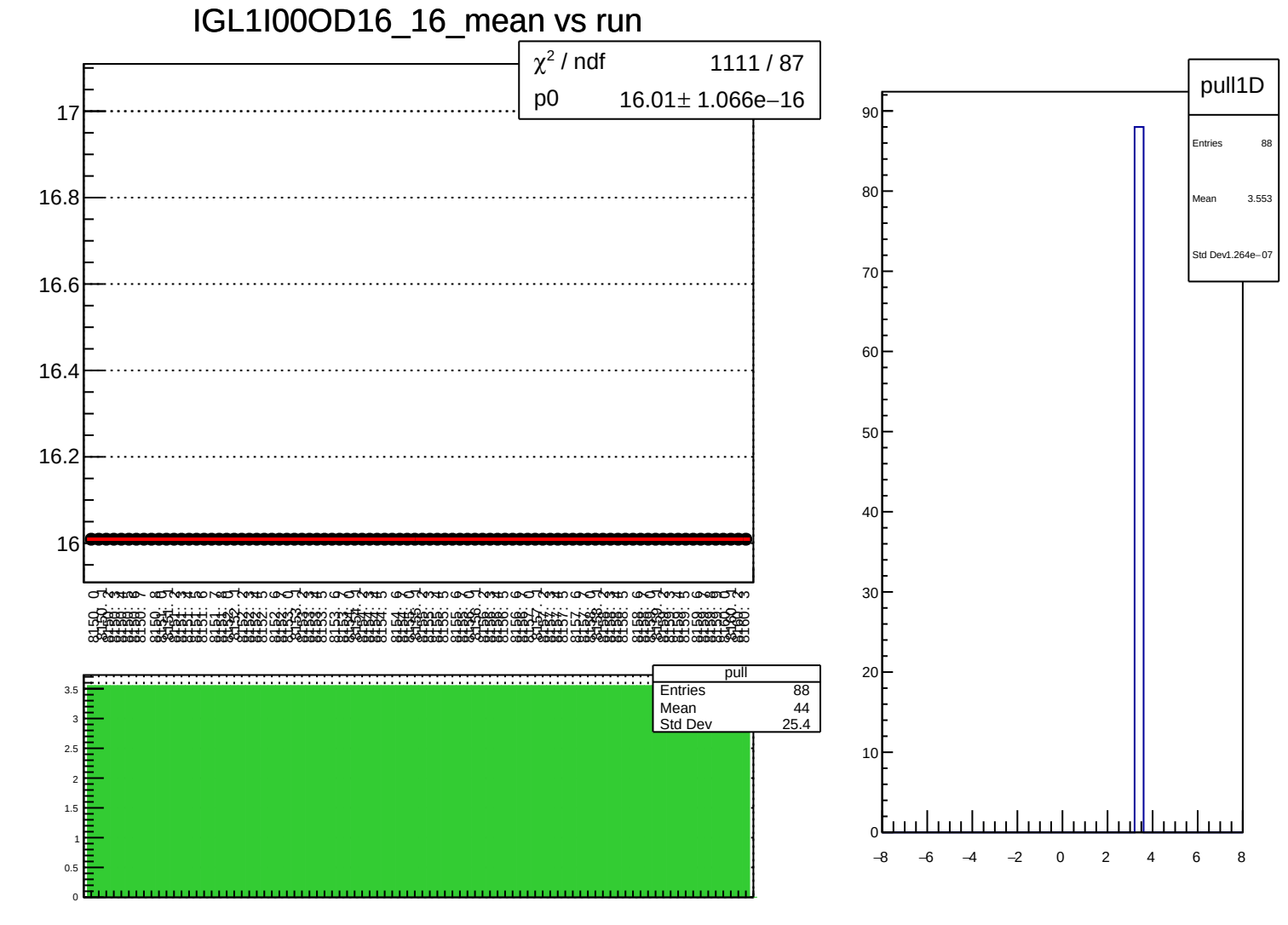

VWienAngle_mean vs run
χ² / ndf 4.443e+05 / 87
p0 88 ± 1.066e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 88
Mean 44
Std Dev 25.4
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

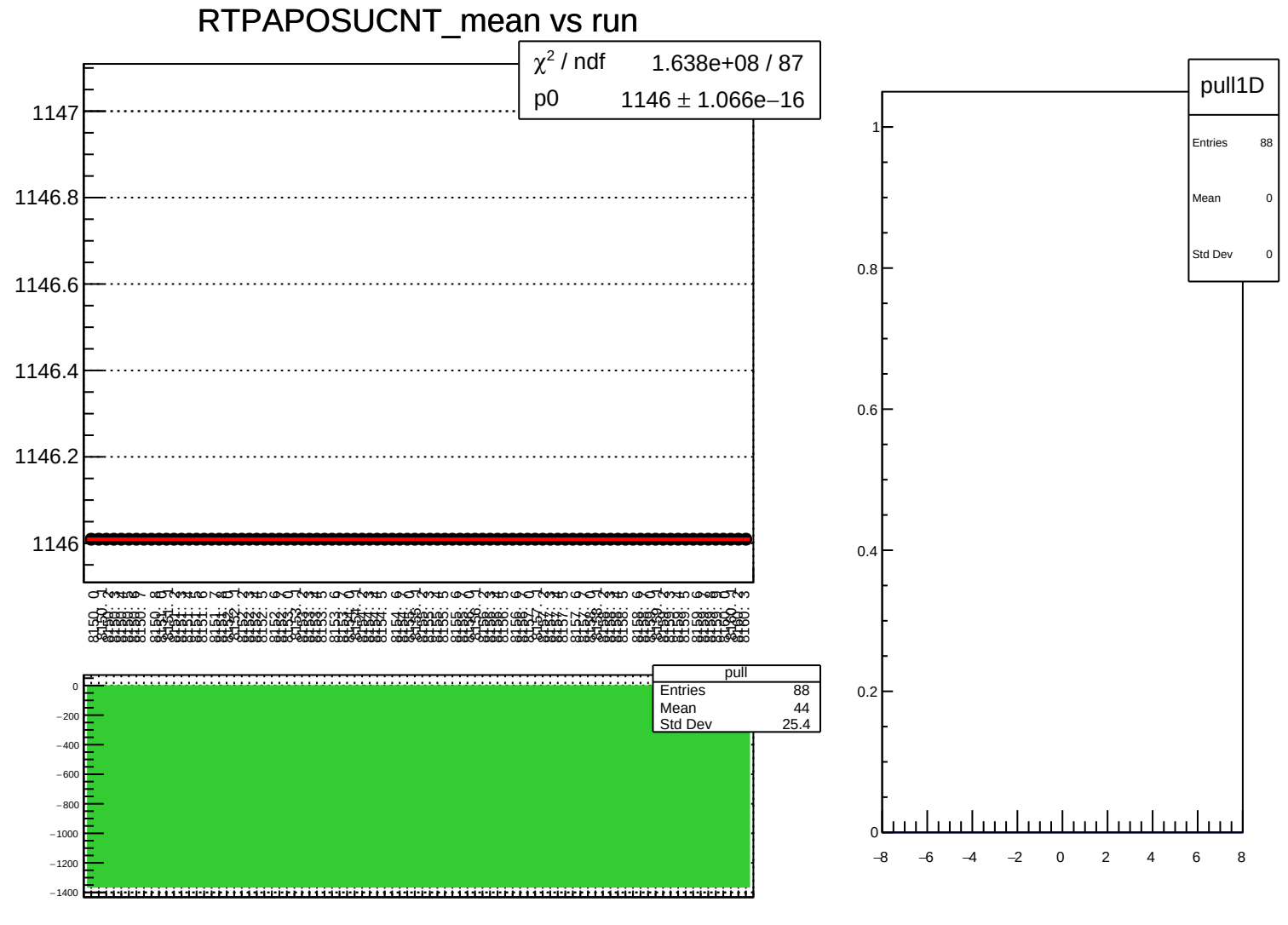

HWienAngle_mean vs run
χ² / ndf 4.443e+05 / 87
p0 −29.64 ± 1.066e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 88
Mean 44
Std Dev 25.4
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

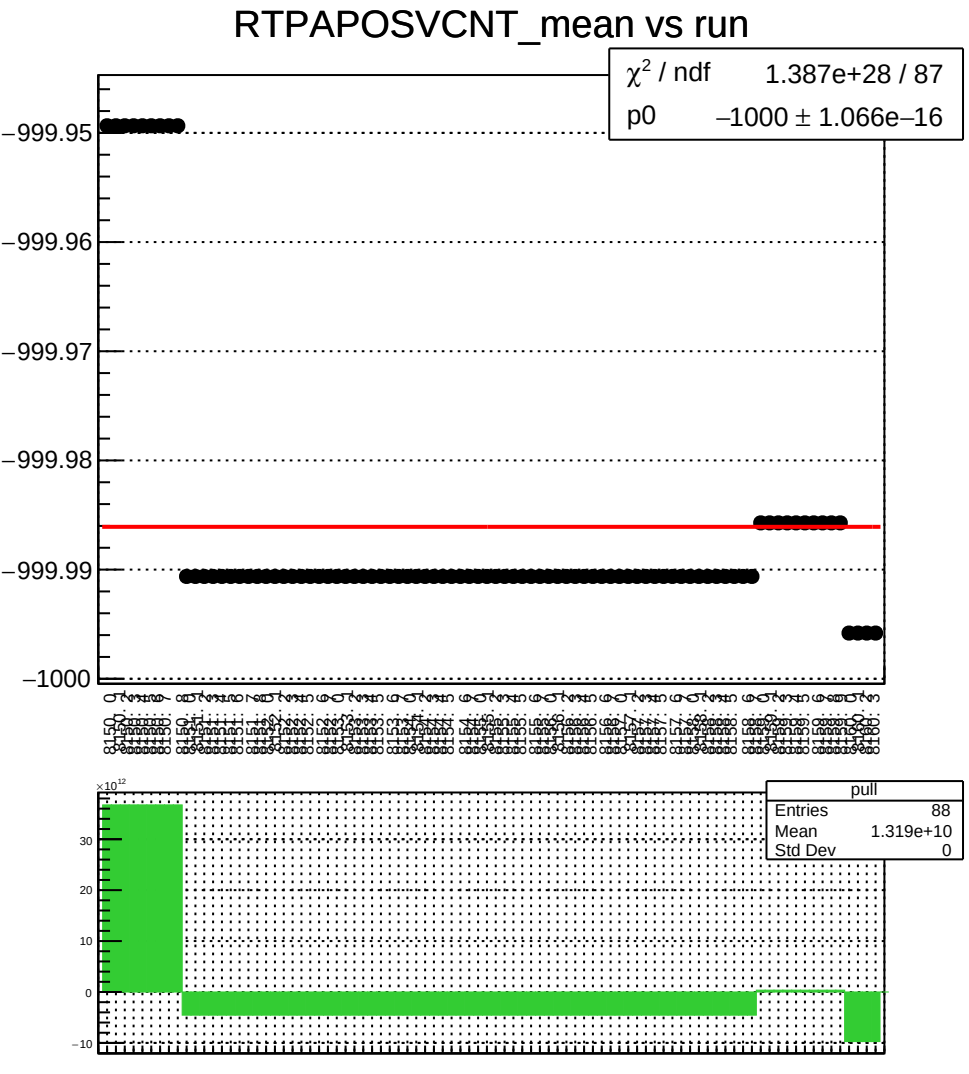

psub_pl_pos_mean vs run
χ² / ndf 1.642e+09 / 87
p0 1500 ± 1.066e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 88
Mean 44
Std Dev 25.4
4500
4000
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

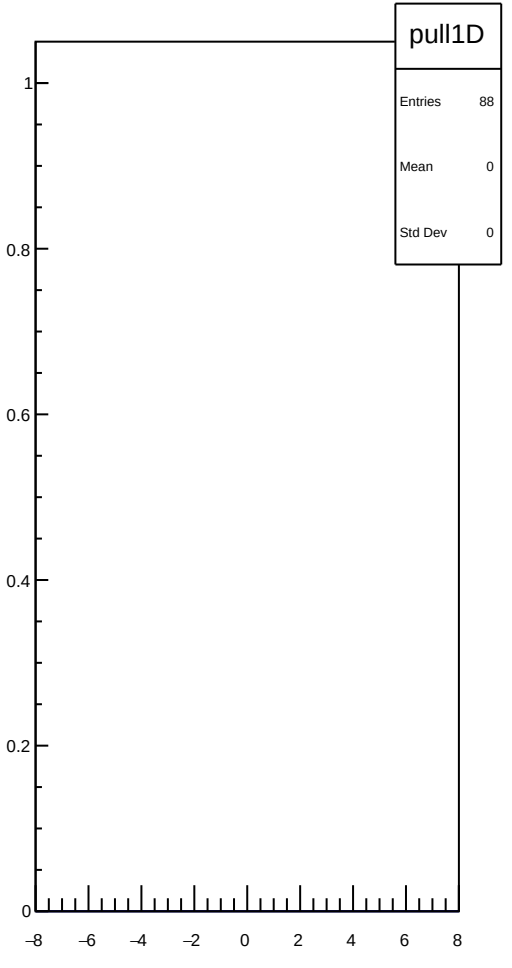

Phi_FG_mean vs run
χ² / ndf 8.708e+05 / 87
p0 89.96 ± 1.066e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 88
Mean 44
Std Dev 25.4
100
80
60
40
20
0
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

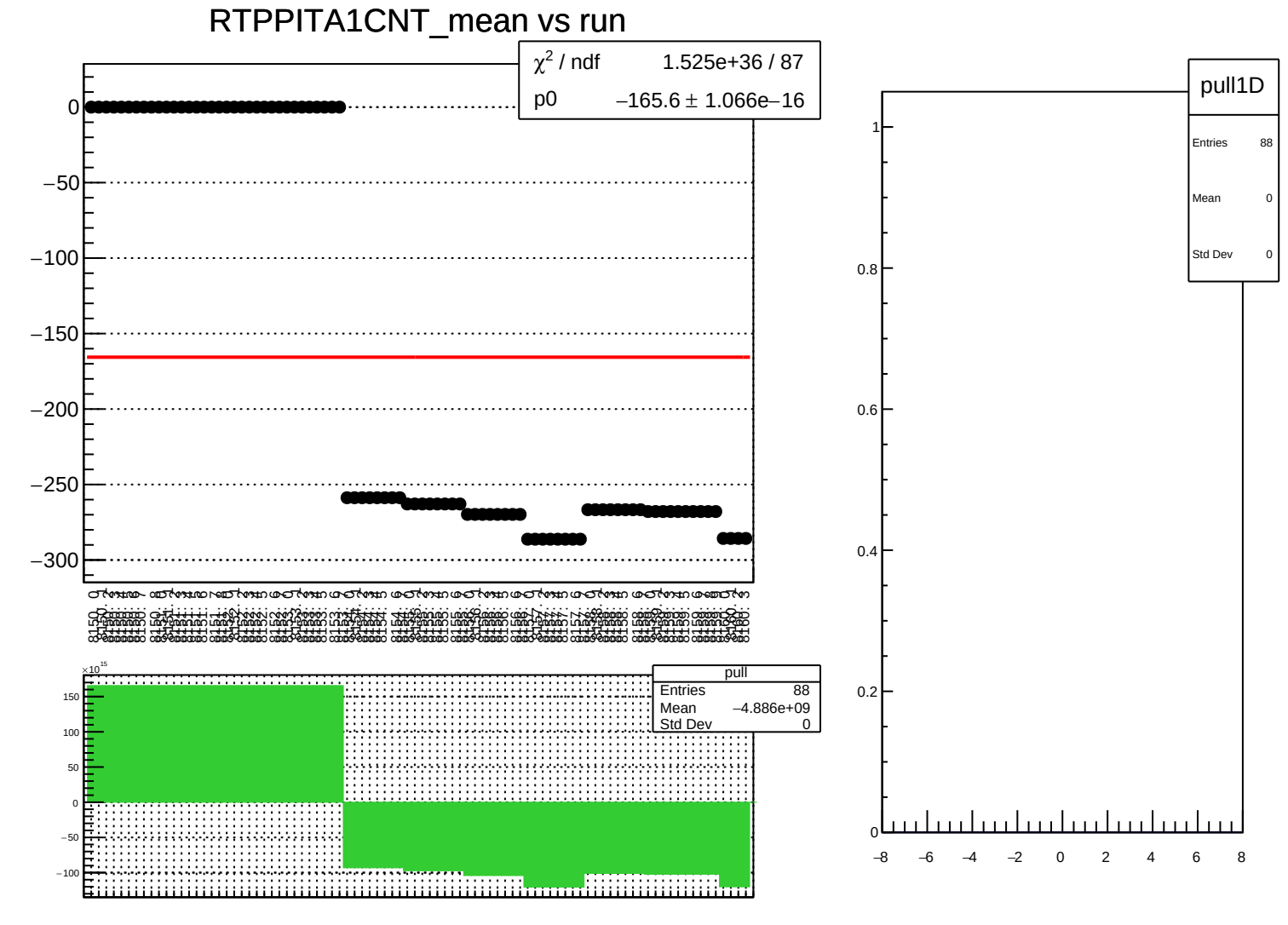

IGL1I00DI24_24M_mean vs run
χ² / ndf 3.999e+04 / 87
p0 17.01± 1.066e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 88
Mean 44
Std Dev 25.4
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

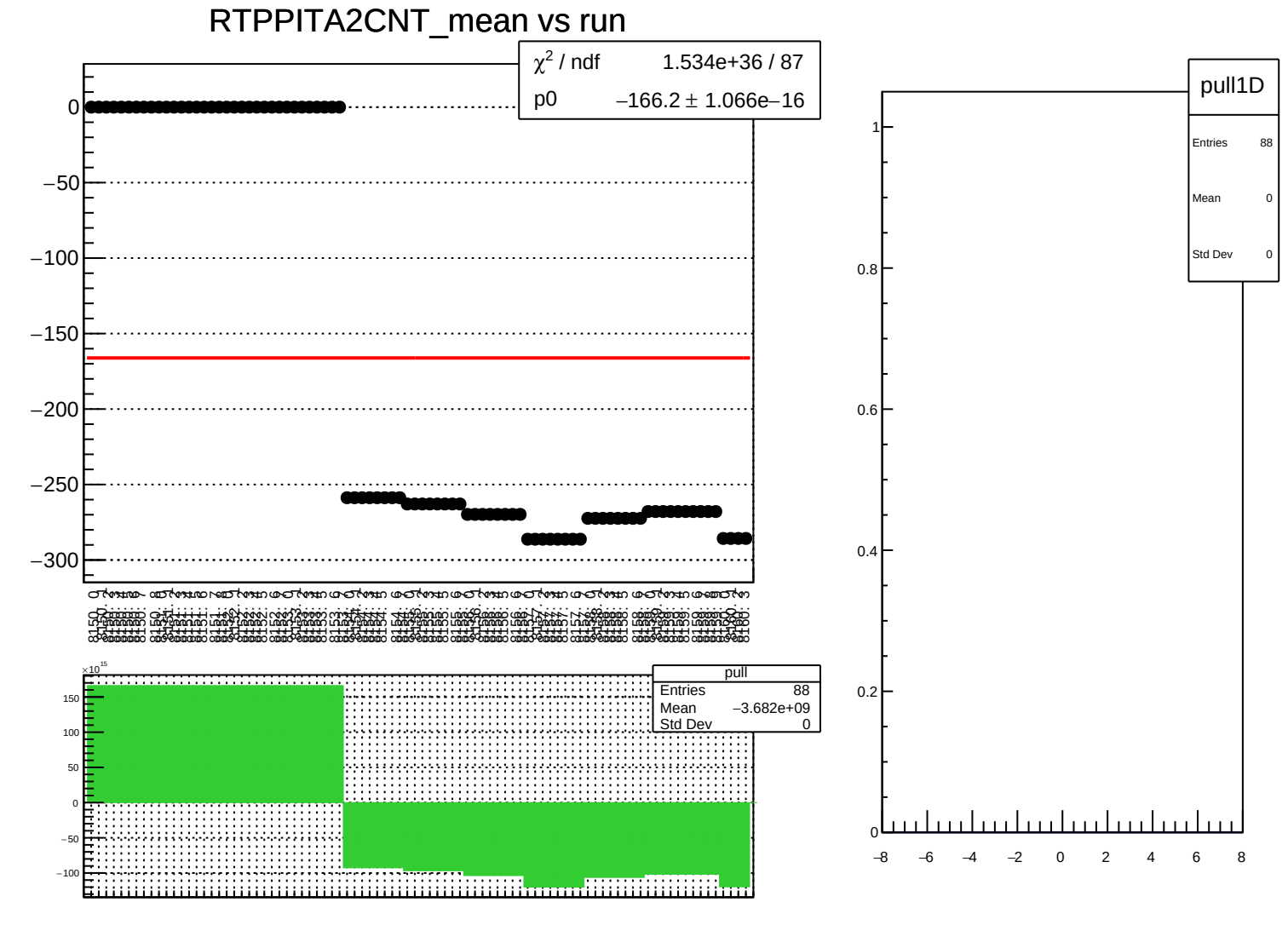

IGL1I00OD16_16_mean vs run
χ² / ndf 1111 / 87
p0 16.01± 1.066e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 88
Mean 44
Std Dev 25.4
3.5
3
2.5
2
1.5
1
0.5
0
pull1D
Entries 88
Mean 3.553
Std Dev1.264e−07
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 1.638e+08 / 87
p0 1146 ± 1.066e−16
1147
1146.8
1146.6
1146.4
1146.2
1146
pull
Entries 88
Mean 44
Std Dev 25.4
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 1.387e+28 / 87
p0 −1000 ± 1.066e−16
−999.95
−999.96
−999.97
−999.98
−999.99
−1000
pull
Entries 88
Mean 1.319e+10
Std Dev 0
×10¹²
30
20
10
0
−10


pull1D
Entries 88
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 1.525e+36 / 87
p0 −165.6 ± 1.066e−16
0
−50
−100
−150
−200
−250
−300
pull
Entries 88
Mean −4.886e+09
Std Dev 0
×10¹⁵
150
100
50
0
−50
−100
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA2CNT_mean vs run
χ² / ndf 1.534e+36 / 87
p0 −166.2 ± 1.066e−16
0
−50
−100
−150
−200
−250
−300
pull
Entries 88
Mean −3.682e+09
Std Dev 0
×10¹⁵
150
100
50
0
−50
−100
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8